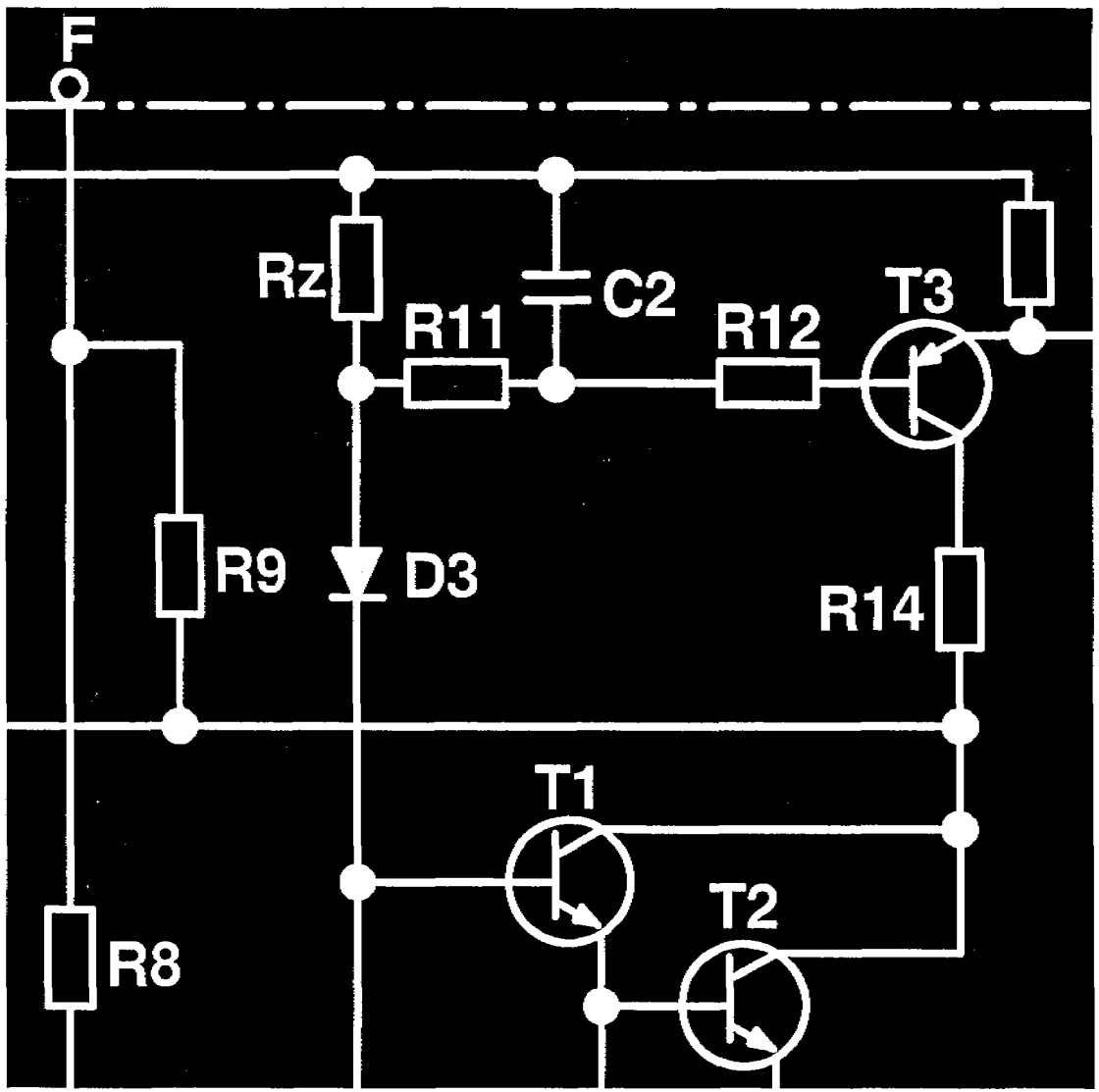


1992
BMW
318is, 325i
(E36)
Electrical
Troubleshooting
Manual

Vehicles Produced 4/91 to 8/92

PN 01 00 1 467 991

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

3 SERIES – E36 (318is, 325i)

SCHEMATICS MODEL YEAR 1992

0100.0 INDEX
0110.0 INTRODUCTION
0140.0 SYMBOLS
0670.0 POWER DISTRIBUTION CHART
0670.1 FUSE CHART
0670.2 POWER DISTRIBUTION
0670.3 FUSE DETAILS
0670.4 GROUND DISTRIBUTION
0670.5 DATA LINK
1210.7 ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)
1210.9 ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)
1230.0 CHARGING SYSTEM
1240.0 START
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)
3450.0 SLIP CONTROL (ABS)
5116.0 POWER MIRRORS
5126.2 CENTRAL LOCKING MODULE II (ZVM II)
5133.1 POWER WINDOWS (FH)
5200.0 POWER SEATS
5203.0 HEATED SEATS
5410.1 POWER SUN ROOF (SHD)
6133.0 HORN
6160.1 WIPER/WASHER MODULE (WWM)
6167.1 HEADLIGHT WASHER (SRA)
6211.0 INSTRUMENT CLUSTER
6213.2 MULTI-FUNCTION CLOCK
6300.0 LIGHT SWITCH DETAILS
6312.0 HEADLIGHTS/FOG LIGHTS
6313.0 TURN/HAZARD LIGHTS
6314.0 PARK/TAIL/UNDERHOOD LIGHTS
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS
6322.0 BACK UP LIGHTS
6325.0 BRAKE LIGHTS
6330.3 INTERIOR LIGHTS
6332.1 GLOVE BOX LIGHT/CASSETTE BOX/ ASHTRAY LIGHT/CHARGING SOCKET/ CIGAR LIGHTER
6350.0 CRASH CONTROL MODULE
6412.5 PARK VENTILATION WITH IHKR
6424.0 REAR WINDOW DEFOGGER
6450.4 INTEGRATED CLIMATE REGULATION (IHKR E36)
6510.0 RADIO/CD PLAYER (PROVISIONS)
6510.1 RADIO/HIFI
6561.0 CELLULAR TELEPHONE (PROVISIONS)
6571.0 CRUISE CONTROL (TEMPOMAT)
6575.2 ANTI-THEFT SYSTEM (ALPINE)
6581.2 ON-BOARD COMPUTER (BC V)
7000.0 COMPONENT LOCATION CHART
7100.0 COMPONENT LOCATION VIEWS
8000.0 SPLICE LOCATION VIEWS
8500.0 CONNECTOR VIEWS

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INDEX

ABS HYDRAULIC UNIT, Y1 ..... 3450.0-01
ABS PEDAL TRAVEL SENSOR, S123 ..... 3450.0-01
ABS PUMP MOTOR RELAY, K75 ..... 3450.0-00
ABS RELAY, K10 ..... 3450.0-00
AIR BAG GENERATOR, DRIVERS, G5 ..... 3234.0-00
AIR CONDITIONING COMPRESSOR, Y2 ..... 6450.4-05
ANTENNA AMPLIFIER AM/FM, N8 ..... 6424.0-00
ANTI-THEFT HORN, H1w 6581.2-02
ANTI-THEFT SYSTEM (ALPINE) 6575.2
ANTI-THEFT SYSTEM CONTROL MODULE (ALPINE), N12w 6575.2
AUTOMATIC CUT-OUT, F56 ..... 5133.1-01
AUTOMATIC TRANSMISSION RANGE SWITCH, S3 ..... 2460.2-03
AUXILIARY FAN MOTOR, M9 ..... 6450.4-04
AUXILIARY TURN LIGHT, LEFT FRONT, H9 ..... 6313.0-02
AUXILIARY TURN LIGHT, RIGHT FRONT, H8 ..... 6313.0-02
BACK UP LIGHTS 6322.0
BACK UP LIGHT, LEFT, H27 ..... 6322.0-00
BACK UP LIGHT, RIGHT, H28 ..... 6322.0-00
BATTERY, G1 ..... 0670.2
BLOWER MOTOR, M30 ..... 6450.4-02
BLOWER RELAY, K4 ..... 6450.4-00
BLOWER RESISTORS, R11 ..... 6450.4-02
BLOWER SWITCH, S75 ..... 6450.4-02
BRAKE FLUID LEVEL SWITCH, B18 ..... 6211.0-00
BRAKE LIGHT SWITCH, S29 ..... 6325.0-00
BRAKE LIGHT SWITCH, S30 ..... 6325.0-01
BRAKE LIGHTS 6325.0
BRAKE LIGHT, LEFT, H24 ..... 6325.0-00
BRAKE LIGHT, RIGHT, H31 ..... 6325.0-00
BRAKE PAD SENSOR, LEFT FRONT, B16 ..... 6211.0-01
BRAKE PAD SENSOR, RIGHT REAR, B17 ..... 6211.0-01
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION), B6204 ..... 1210.7-04
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION), B6204 ..... 1210.9-06
CASSETTE BOX LIGHT, E45y 6332.1-00
CD CHANGER, N22 ..... 6510.1-00
CELLULAR TELEPHONE (PROVISIONS) 6561.0
CENTRAL LOCKING MODULE, A30 ..... 5126.2
CENTRAL LOCKING MODULE II (ZVM II) 5126.2
CHARGING SYSTEM 1230.0
CHECK CONTROL MODULE, A4 ..... 6581.2-03
CHILD PROTECTION CONTROL (CONSOLE), S130 ..... 5133.1-03
CHIME MODULE, H10 ..... 6213.2-01
CHIME MODULE, H10 ..... 6581.2-01
CLUTCH SWITCH, S32 ..... 6325.0-00
COMBINATION SWITCH, S7 ..... 6312.0-00
COMFORT RELAY, K78 ..... 5133.1-00
COMPONENT LOCATION CHART 7000.0
COMPONENT LOCATION VIEWS 7100.0
COMPRESSOR CONTROL RELAY, K19 ..... 6450.4-05
CONNECTOR VIEWS 8500.0
CONTACT RING, C101 ..... 3234.0-00
CRANKSHAFT POSITION/RPM SENSOR, B6203 ..... 1210.7-04
CRANKSHAFT POSITION/RPM SENSOR, B6203 ..... 1210.9-06
CRASH CONTROL MODULE, N17 ..... 6350.0-01
CRASH CONTROL MODULE 6350.0
CRUISE CONTROL ACTUATOR (TEMPOMAT), M25 ..... 6571.0-01
CRUISE CONTROL (TEMPOMAT) 6571.0
CRUISE CONTROL MODULE (TEMPOMAT), A8 ..... 6571.0
CRUISE CONTROL SWITCH, S28 ..... 6571.0-00
CYL. 1-2 KNOCK SENSOR, B6241 ..... 1210.9-01
CYL. 1 FUEL INJECTION VALVE, Y6101 1210
CYL. 1-6 FUEL PUMP RELAY, K6301 ..... 1210.7-02
CYL. 1-4 FUEL PUMP RELAY, K6301 ..... 1210.9-05
CYL. 1 IGNITION COIL, T6151 1210
CYL. 2 FUEL INJECTION VALVE, Y6102 1210
CYL. 2 IGNITION COIL, T6152 1210
CYL. 3 FUEL INJECTION VALVE, Y6103 1210
CYL. 3-4 KNOCK SENSOR, B6242 ..... 1210.9-01
CYL. 3 IGNITION COIL, T6153 1210
CYL. 4 FUEL INJECTION VALVE, Y6104 1210
CYL. 4 IGNITION COIL, T6154 1210
CYL. 5 FUEL INJECTION VALVE, Y6105 1210

CYL. 5 IGNITION COIL, T6155 1210
CYL. 6 FUEL INJECTION VALVE, Y6106 1210
CYL. 6 IGNITION COIL, T6156 1210
DASH VENT MIXING FLAP MOTOR, M34 ..... 6450.4-03
DATA LINK 0670.5
DATA LINK CONNECTOR, D100 ..... 0670.5
DAYTIME RUNNING LIGHTS CODING DIODE, V4 ..... 6314.0-02
DIMMER, N3 ..... 6300.0-00
DOME LIGHT/MAP READING ASSEMBLY, FRONT, E34 ..... 6330.3-00
DOOR (CONSOLE) POWER WINDOW SWITCH, LH REAR, S128y 5133.1-03
DOOR (CONSOLE) POWER WINDOW SWITCH, RH REAR, S129y 5133.1-03
DOOR JAMB SWITCH, DRIVER'S, S14 ..... 5126.2-01
DOOR JAMB SWITCH, LEFT REAR, S16 ..... 5126.2-01
DOOR JAMB SWITCH, PASSENGER'S, S13 ..... 5126.2-01
DOOR JAMB SWITCH, RIGHT REAR, S15 ..... 5126.2-01
DOOR LOCK MOTOR, DRIVER'S, M12 ..... 5126.2-04
DOOR LOCK MOTOR, LEFT REAR, M15 ..... 5126.2-03
DOOR LOCK MOTOR, PASSENGER'S; M13 ..... 5126.2-04
DOOR LOCK MOTOR, RIGHT REAR, M14 ..... 5126.2-03
DOOR LOCK SWITCH, DRIVER'S, S47 ..... 5126.2-00
DOOR LOCK SWITCH, PASSENGER'S, S49 ..... 5126.2-00
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 2460.2
ENGINE CONTROL MODULE (DME), A6000 ..... 1210.7
ENGINE CONTROL MODULE (DME), A6000 ..... 1210.9
ENGINE CONTROL MODULE RELAY, K6300 ..... 1210.7-00
ENGINE CONTROL MODULE RELAY, K6300 ..... 1210.9-02
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42) 1210.9
ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50) 1210.7
ENGINE COOLANT LEVEL SWITCH, S63 ..... 6581.2-03
ENGINE COOLANT TEMP. SENSOR, B6236 ..... 1210.7-05
ENGINE COOLANT TEMP. SENSOR, B6236 ..... 1210.9-01
ENGINE COOLANT TEMPERATURE SENSOR, B6232 ..... 6211.0-02
ENGINE HOOD SWITCH (DWA), S21 ..... 6581.2-02
ENGINE INTAKE AIR TEMPERATURE SENSOR, B6205 ..... 1210.7-05
EVAPORATIVE EMISSION VALVE, Y6120 ..... 1210.7-01
EVAPORATIVE EMISSION VALVE, Y6120 ..... 1210.9-04
EVAPORATOR TEMPERATURE SENSOR, B14 ..... 6450.4-02
FOG LIGHT, LEFT, E26 ..... 6312.0-03
FOG LIGHT, RIGHT, E27 ..... 6312.0-03
FOG LIGHT SWITCH, S10 ..... 6312.0-01
FRESH AIR FLAP MOTOR, M36 ..... 6450.4-03
FRONT ASHTRAY LIGHT, E25 ..... 6332.1-00
FRONT CIGAR LIGHTER, E28 ..... 6332.1-00
FRONT CIGAR LIGHTER LIGHT, E29 ..... 6332.1-00
FRONT FOG LIGHT RELAY, K47 ..... 6312.0-03
FRONT POWER DISTRIBUTION BOX, P90 ..... 0670.2
FUEL LEVEL SENSOR, B6 ..... 6211.0-04
FUEL PUMP, M2 ..... 1210.7-02
FUEL PUMP, M2 ..... 1210.9-05
FUEL TANK SENSOR II, B25y 6211.0-04
FUSE CHART 0670.1
FUSE DETAILS 0670.3
FUSIBLE LINK, F97 ..... 0670.2-00
GAS FILLER LOCK MOTOR, M16 ..... 5126.2-05
GENERATOR, G6509 ..... 1230.0-00
GLOVE BOX LIGHT, E42 ..... 6332.1-00
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER 6332.1
GLOVE BOX LIGHT SWITCH, S37 ..... 6332.1-00
GROUND DISTRIBUTION 0670.4
HAZARD FLASHER RELAY, K16 ..... 6313.0-00
HAZARD SWITCH, S18 ..... 6313.0-01
HEADLIGHT, LEFT, E7 ..... 6313.0-02
HEADLIGHT, RIGHT, E8 ..... 6313.0-02
HEADLIGHT/FOG LIGHT CLEANING SYSTEM MODULE (SRA), N6 6167.1-00
HEADLIGHT/FOG LIGHT WASHER PUMP, M7 ..... 6167.1-00
HEADLIGHT WASHER (SRA) 6167.1
HEADLIGHTS/FOG LIGHTS 6312.0
HEATED OXYGEN SENSOR, B6200 ..... 1210.7-04
HEATED OXYGEN SENSOR, B6200 ..... 1210.9-06
HEATED SEATS 5203.0
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 ..... 6450.4-02
HEAT EXCHANGER TEMPERATURE SENSOR, RH, B12 ..... 6450.4-02
HIFI AMPLIFIER, A18 ..... 6510.1-00

HIGH BEAM LIGHT, LEFT, E11 ..... 6312.0-04
HIGH BEAM LIGHT, RIGHT, E12 ..... 6312.0-04
HIGH BEAM LIGHT RELAY, K46 ..... 6312.0-04
HIGH LEVEL STOP LIGHT, H34 ..... 6325.0-00
HIGH RANGE SPEAKER, LEFT FRONT, H59 ..... 6510.1-01
HIGH RANGE SPEAKER, LEFT REAR, H56 ..... 6510.1-01
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.1-02
HIGH RANGE SPEAKER, RIGHT REAR, H53 ..... 6510.1-02
HIGH SPEED RELAY, K22 ..... 6450.4-04
HORN 6133.0
HORN, LEFT, H2 ..... 6133.0-00
HORN, RIGHT, H3 ..... 6133.0-00
HORN RELAY, K2 ..... 6133.0-00
HORN SWITCH, S4 ..... 6133.0-00
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.7-01
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.9-04
IGNITION SWITCH, S2 ..... 0670.2-04
IHKR CONTROL PANEL, S134y 6450.4-01
INDEX 0100.0
INERTIA SWITCH, S27 ..... 5126.2-00
INSTRUMENT CLUSTER, A2 ..... 6211.0
INSTRUMENT CLUSTER 6211.0
INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131 ..... 1210.9-04
INTEGRATED CLIMATE REGULATION (IHKR E36) 6450.4
INTEGRATED CLIMATE REGULATION CONTROL MODULE, A87y 6450.4-00
INTENSIVE WASH PUMP, M5 ..... 6160.1-02
INTERIOR LIGHTS 6330.3
INTERIOR LIGHT, LEFT REAR, E39 ..... 6330.3-00
INTERIOR LIGHT, RIGHT REAR, E40 ..... 6330.3-00
INTRODUCTION 0110.0
IMPACT SENSOR, LEFT FRONT, S71 ..... 3234.0-00
IMPACT SENSOR, RIGHT FRONT, S72 ..... 3234.0-00
KICK-DOWN SWITCH, S8507 ..... 2460.2-04
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS 6320.0
LICENSE PLATE LIGHT, LEFT, E43 ..... 6320.0-00
LICENSE PLATE LIGHT, RIGHT, E44 ..... 6320.0-00
LIGHT SWITCH, S8 ..... 6300.0-00
LIGHT SWITCH DETAILS 6300.0
LOW BEAM LIGHT, LEFT, E13 ..... 6312.0-04
LOW BEAM LIGHT, RIGHT, E14 ..... 6312.0-04
LOW BEAM LIGHT RELAY, K48 ..... 6312.0-04
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.1-01
LOW RANGE SPEAKER, LEFT REAR, H57 ..... 6510.1-01
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.1-02
LOW RANGE SPEAKER, RIGHT REAR, H52 ..... 6510.1-02
MASS AIR FLOW SENSOR, B6206 ..... 1210.7-05
MAKE UP MIRROR LIGHT, DRIVER'S, E35 ..... 6330.3-00
MAKE UP MIRROR LIGHT, PASSENGER'S, E36 ..... 6330.3-00
MAKE UP MIRROR SWITCH, DRIVER'S, S77 ..... 6330.3-00
MAKE UP MIRROR SWITCH, PASSENGER'S, S78 ..... 6330.3-00
MID-HIGH RANGE SPEAKER, LEFT, H42 ..... 6510.1-01
MID-HIGH RANGE SPEAKER, RIGHT, H43 ..... 6510.1-02
MIDRANGE SPEAKER, LEFT FRONT, H55 ..... 6510.1-01
MIDRANGE SPEAKER, RIGHT FRONT, H54 ..... 6510.1-02
MIRROR CONTROL SWITCH, S17 ..... 5116.0-00
MIXING ACTUATOR, R1 ..... 6450.4-02
MULTI-FUNCTION CLOCK, N10 ..... 6213.2-00
MULTI-FUNCTION CLOCK 6213.2
NORMAL SPEED RELAY, K21 ..... 6450.4-04
OIL PRESSURE SWITCH, B6231 ..... 6211.0-00
ON-BOARD COMPUTER (BC V) 6581.2
ON-BOARD COMPUTER HORN RELAY, K91 ..... 6581.0-02
ON-BOARD COMPUTER TEMPERATURE SENSOR, B21 ..... 6581.2-00
OUTSIDE TEMPERATURE SENSOR, B13 ..... 6450.4-02
OXYGEN SENSOR RELAY, K6303 ..... 1210.7-04
OXYGEN SENSOR RELAY, K6303 ..... 1210.9-02
PARK LIGHT/LICENSE PLATE LIGHT RELAY, RIGHT, K25 ..... 6314.0-02
PARK LIGHT RELAY LEFT, K26 ..... 6314.0-02
PARK LIGHT, LEFT, E15 ..... 6314.0-01
PARK LIGHT, RIGHT, E19 ..... 6314.0-01
PARK BRAKE SWITCH, S31 ..... 6211.0-00
PARK HEATING/VENTILATION RELAY BOX, A15 ..... 6412.5-01
PARK/TAIL LIGHTS 6314.0
PARK VENTILATION WITH IHKR 6412.5

INDEX

POWER DISTRIBUTION 0670.2
POWER DISTRIBUTION CHART 0670.0
POWER SEATS 5200.0
POWER SUN ROOF (SHD) 5410.1
POWER MIRRORS 5116.0
POWER WINDOW SWITCH, DRIVER'S, S126y 5133.1-02
POWER WINDOW SWITCH, PASSENGER'S, S127y 5133.1-01
POWER WINDOWS (FH) 5133.1
POWER WINDOW MODULE, DRIVER'S, A61 ..... 5133.1-02
POWER WINDOW MODULE, PASSENGER'S, A961 ..... 5133.1-06
PRESSURE SWITCH, B8y 6450.4-05
PRESSURE SWITCH, B9y 6450.4-05
PRESSURE SWITCH, B9508 ..... 6450.4-05
PROGRAM SWITCH, S8503 ..... 2460.2-01
RADIO, N9 ..... 6510.1-00
RADIO/CD PLAYER (PROVISIONS) 6510.0
RADIO/HIFI 6510.1
RADIO MICROSWITCH, S20y 6581.2-02
REAR ASHTRAY LIGHT, E28y 6332.1-00
REAR DEFOGGER RELAY, K13 ..... 6424.0-00
REAR DEFOGGER/ANTENNA, E10 ..... 6424.0-01
REAR DEFOGGER I, E9 ..... 6424.0-01
REAR WINDOW DEFOGGER 6424.0
RECIRCULATION FLAP MOTOR, M40 ..... 6450.4-03
REVERSING LIGHT SWITCH, S8511 ..... 6322.0-00
SEAT BELT SWITCH, DRIVER'S, S58 ..... 6211.0-01
SEAT CONTROL SWITCH, DRIVER'S SEAT, S51 ..... 5200.0-01
SEAT CONTROL SWITCH, PASSENGER'S SEAT, S56 ..... 5200.0-01
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-01
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 ..... 5200.0-01
SEAT HEATER, DRIVER'S, E57 ..... 5203.0-00
SEAT HEATER,PASSENGER'S, E58 ..... 5203.0-00
SEAT HEATER SWITCH, DRIVER'S SEAT, S53 ..... 5203.0-00
SEAT HEATER SWITCH, PASSENGER'S SEAT, S54 ..... 5203.0-00
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.0-01
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-01
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 ..... 5200.0-01
SEATBACK HEATER, DRIVER'S, E56 ..... 5203.0-00
SEATBACK HEATER, PASSENGER'S, E59 ..... 5203.0-00
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-01
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 ..... 5200.0-01
SHIFT-LOCK, Y19 ..... 2460.2-04
SIDE MIRROR, DRIVER'S, Y5 ..... 5116.0-01
SIDE MIRROR, PASSENGER'S, Y6 ..... 5116.0-01
SLIP CONTROL (ABS) 3450.0
SLIP CONTROL MODULE (ABS), A7 ..... 3450.0
SPEAKER, LEFT REAR , H46 ..... 6510.1-01
SPEAKER, RIGHT REAR , H45 ..... 6510.1-02
SPEED SENSOR - ABS, LEFT FRONT, B2 ..... 3450.0-02
SPEED SENSOR - ABS, LEFT REAR, B4 ..... 3450.0-02
SPEED SENSOR - ABS, RIGHT FRONT, B1 ..... 3450.0-02
SPEED SENSOR - ABS, RIGHT REAR, B3 ..... 3450.0-02
SPLICE LOCATION VIEWS 8000.0
START 1240.0
STARTER, M6510 ..... 1240.0-01
STARTER RELAY, K1 ..... 1240.0-01
SUNROOF CONTROL ASSEMBLY, A56 ..... 5410.1-01
SUNROOF MOTOR, M24 ..... 5410.1-01
SUNROOF SWITCH, S38 ..... 5410.1-01
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 3234.0-00
SUPPRESSION FILTER, C900 ..... 6424.0-01
SYMBOLS 0140.0
TAIL LIGHT, LEFT, H25 ..... 6314.0-01
TAIL LIGHT, LEFT, H37 ..... 6314.0-01
TAIL LIGHT, RIGHT, H30 ..... 6314.0-01
TAIL LIGHT, RIGHT, H39 ..... 6314.0-01
TELEPHONE TRANSCEIVER, H38 ..... 6561.0-00
TEMPERATURE SWITCH, S36 ..... 6450.4-04
THROTTLE POSITION SENSOR, R6252 ..... 1210.7-05
THROTTLE POSITION SENSOR, R6252 ..... 1210.9-01
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 2460.2-03

TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2-00
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0-00
TRUNK LIGHT SWITCH, S61y 6330.3-00
TRUNK LOCK MOTOR, M17 ..... 5126.2-05
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN/HAZARD LIGHTS 6313.0
TWIN RELAY MODULE, N21 ..... 6160.1-02
UNLOADER RELAY, TERMINAL R, K18 ..... 6510.1-00
UNLOADER RELAY, TERMINAL 15, K9 ..... 5203.0-00
VEHICLE SPEED SENSOR, B10 ..... 6211.0-04
VOLUME AIR FLOW SENSOR, B6233 ..... 1210.9-01
WASHER PUMP, M4 ..... 6160.1-00
WASHER FLUID LEVEL SWITCH, S64 ..... 6581.2-03
WATER VALVE ASSEMBLY, Y4 ..... 6450.4-01
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.1-03
WINDOW MOTOR, DRIVER, M21 ..... 5133.1-01
WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH, DRIVER'S, S179 ..... 5126.2-02
WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH, PASSENGER'S, S180 ..... 5126.2-02
WINDOW MOTOR, PASSENGER, M23 ..... 5133.1-01
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.1-03
WINDOW SWITCH, LEFT REAR, S41 ..... 5133.1-03
WINDOW SWITCH, RIGHT REAR, S42 ..... 5133.1-03
WIPER MOTOR RELAY, K53 ..... 6160.1-00
WIPER MOTOR, M3 ..... 6160.1-01
WIPER RELAY, K11 ..... 6160.1-01
WIPER/WASHER MODULE, A51 ..... 6160.1-00
WIPER/WASHER MODULE (LOW II), A64 ..... 6160.1-00
WIPER/WASHER MODULE (WWM) 6160.1

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells 0670.3 Fuse Details and 0670.4 Ground Distribution where all lines are illustrated with all plug connections, line branches and connected components.

All circuit sysmbols used are listed and explained in cell **0140.0 Symbols**.

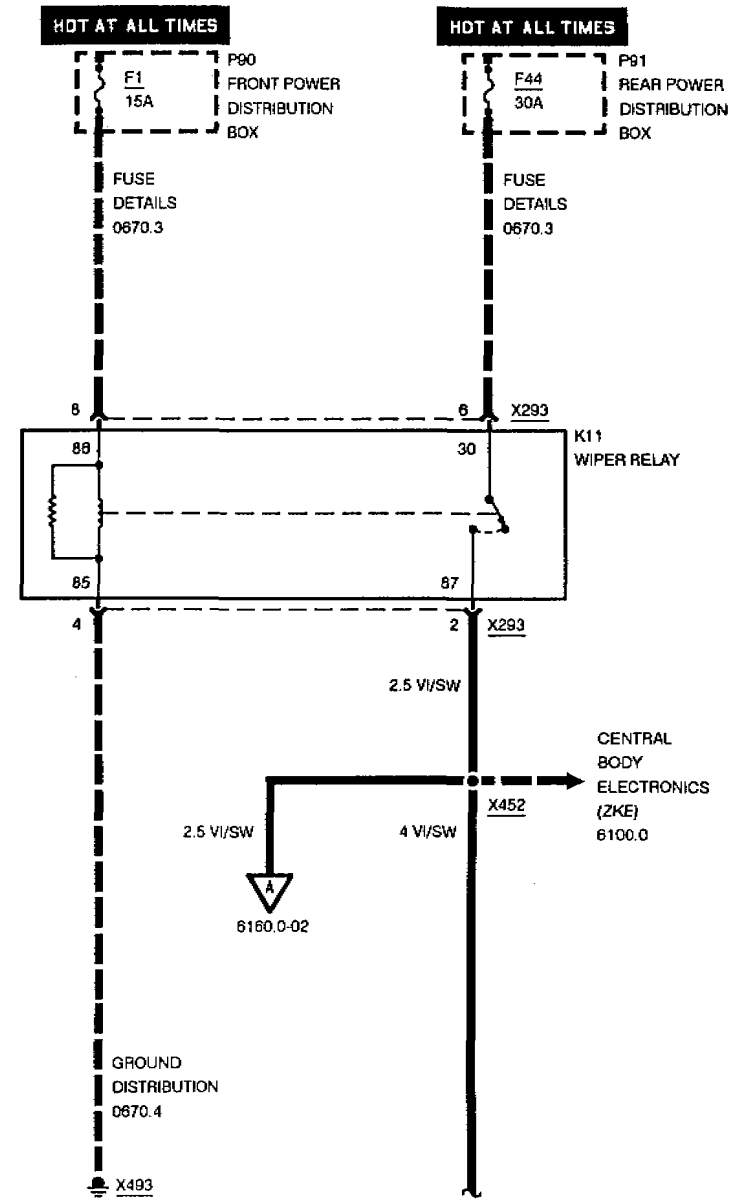
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

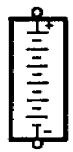
5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell 0670.3 Fuse Details at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

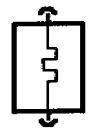
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell 6100.0 Central Body Electronics (ZKE). An interrupted line with an arrow indicates that only this one wire leads to another circuit.

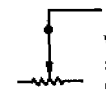
7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell 0670.4 Ground Distribution at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.

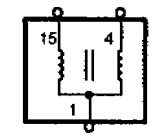
8. The interrupted line from splice X452 with an A in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

SYMBOLS


BATTERY


HEATING ELEMENT


VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



IGNITION COIL


FUSE DETAILS


LOUDSPEAKER OR HORN


VARIABLE RESISTOR
RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


CONTROL/POWER ELECTRONICS


FUSIBLE LINK


LIGHT


DIODE
CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


RADIO


CIRCUIT BREAKER


PERMANENT MAGNET MOTOR
ONE SPEED


ZENER DIODE
TO REGULATE VOLTAGE



TRANSISTORIZED SWITCH


THERMO SWITCH


PERMANENT MAGNET MOTOR
TWO SPEEDS


LIGHT EMITTING DIODE

INDUCTIVE SENSOR

SOLENOID


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID

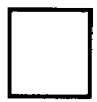

KNOCK SENSOR

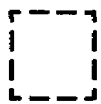

OXYGEN SENSOR

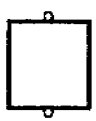


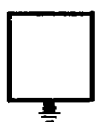
VEHICLE SPEED SENSOR

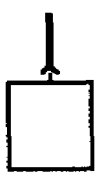
SYMBOLS

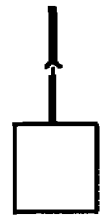

ENTIRE COMPONENT SHOWN

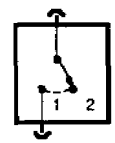

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

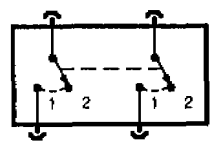

COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)


CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



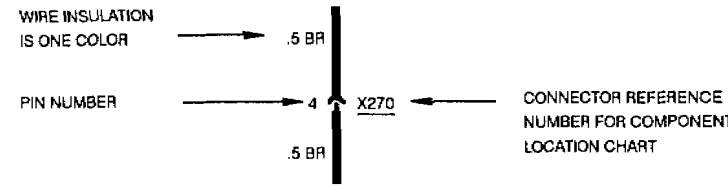
ONE POLE, TWO POSITION SWITCH

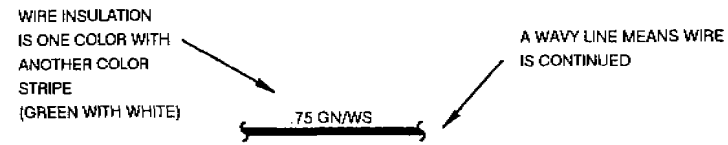


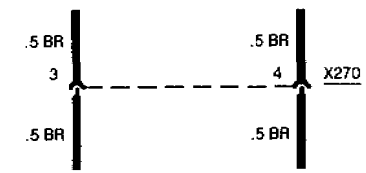
SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

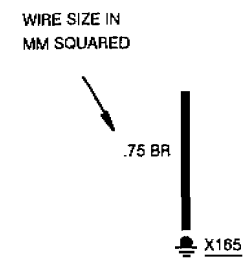






TWO CONNECTIONS (PINS) IN THE SAME CONNECTOR

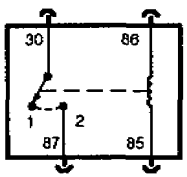
DASHED LINE INDICATES TERMINALS OF THE SAME CONNECTOR



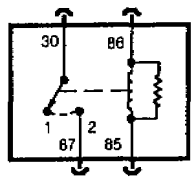
WIRE ATTACHED TO METAL PART OF CAR (GROUNDED)

GROUND NUMBERED FOR REFERENCE ON COMPONENT LOCATION CHART

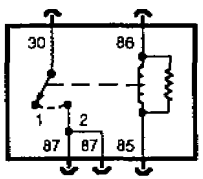
SYMBOLS



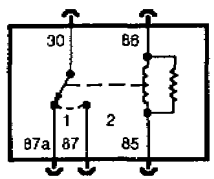
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

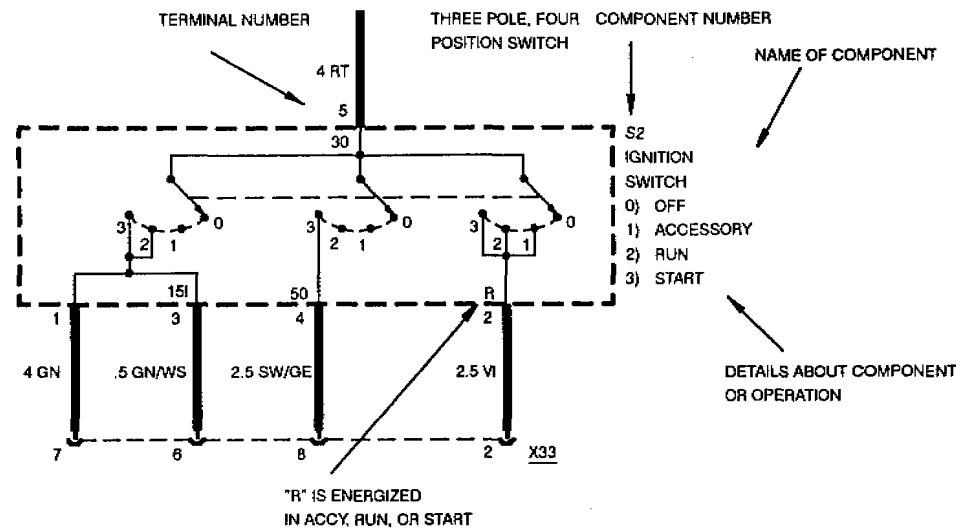


CONTACT RELAY WITH TWO OUTPUTS

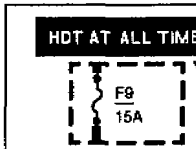


CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)



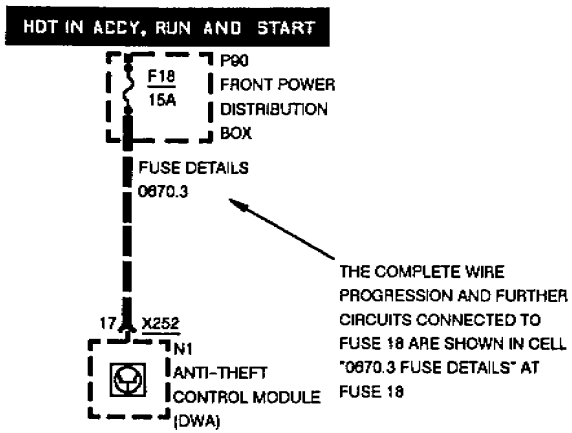
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

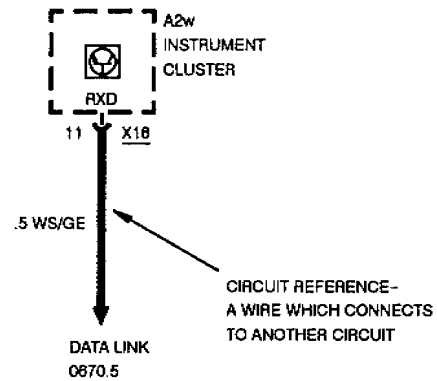


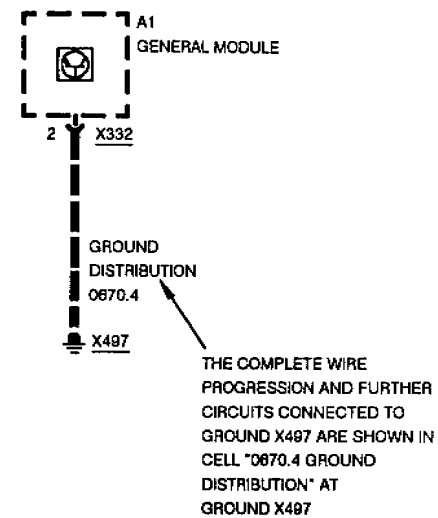
INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

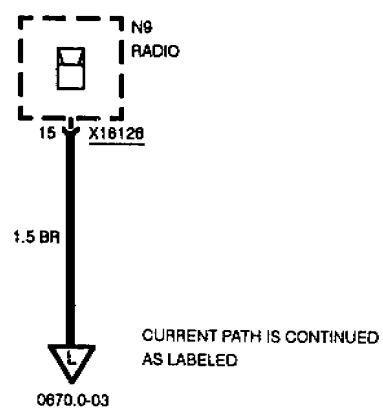
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

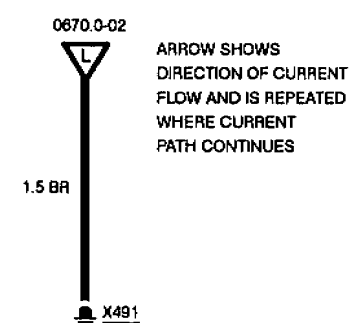
SYMBOLS


HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18
17
X252
N1
ANTI-THEFT
CONTROL MODULE
(DWA)


A2w
INSTRUMENT
CLUSTER
RXD
11
X18
.5 WS/GE
CIRCUIT REFERENCE-
A WIRE WHICH CONNECTS
TO ANOTHER CIRCUIT
DATA LINK
0670.5

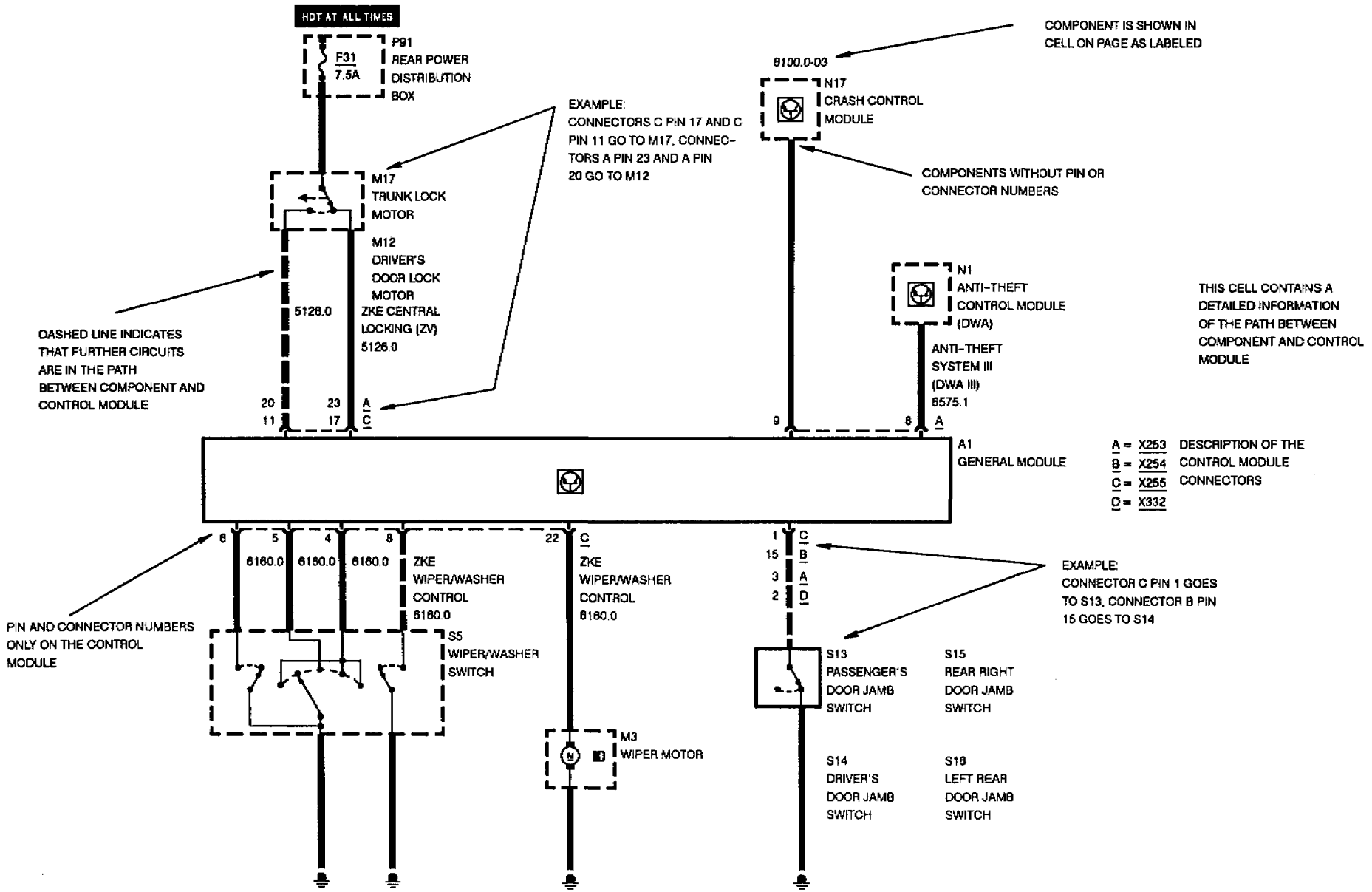

A1
GENERAL MODULE
2
X332
GROUND
DISTRIBUTION
0670.4
X497
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497


N9
RADIO
15
X18128
1.5 BR
CURRENT PATH IS CONTINUED
AS LABELED
0670.0-03


0670.0-02
ARROW SHOWS
DIRECTION OF CURRENT
FLOW AND IS REPEATED
WHERE CURRENT
PATH CONTINUES
1.5 BR
X491

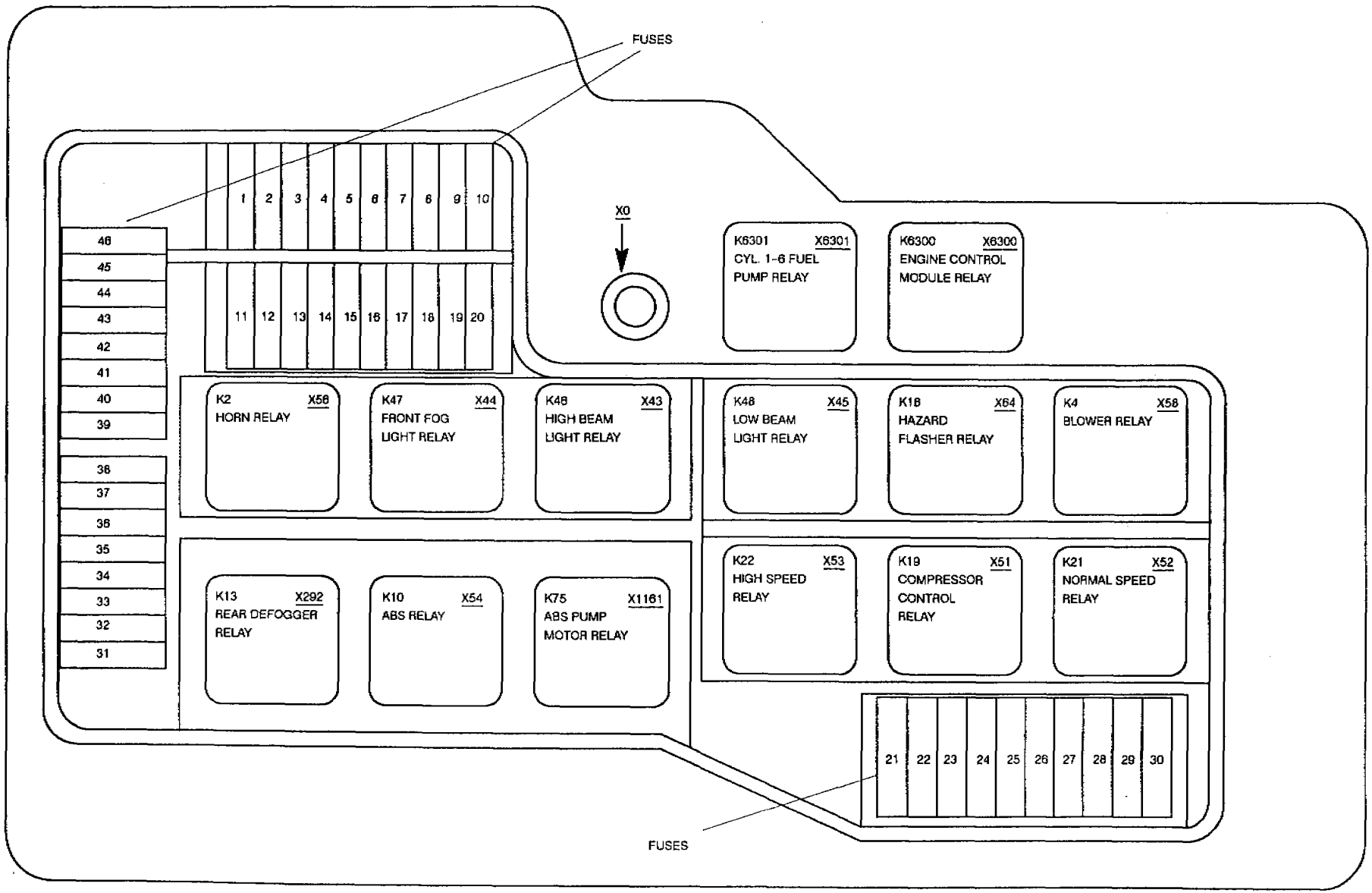
SYMBOLS

BLOCK DIAGRAM



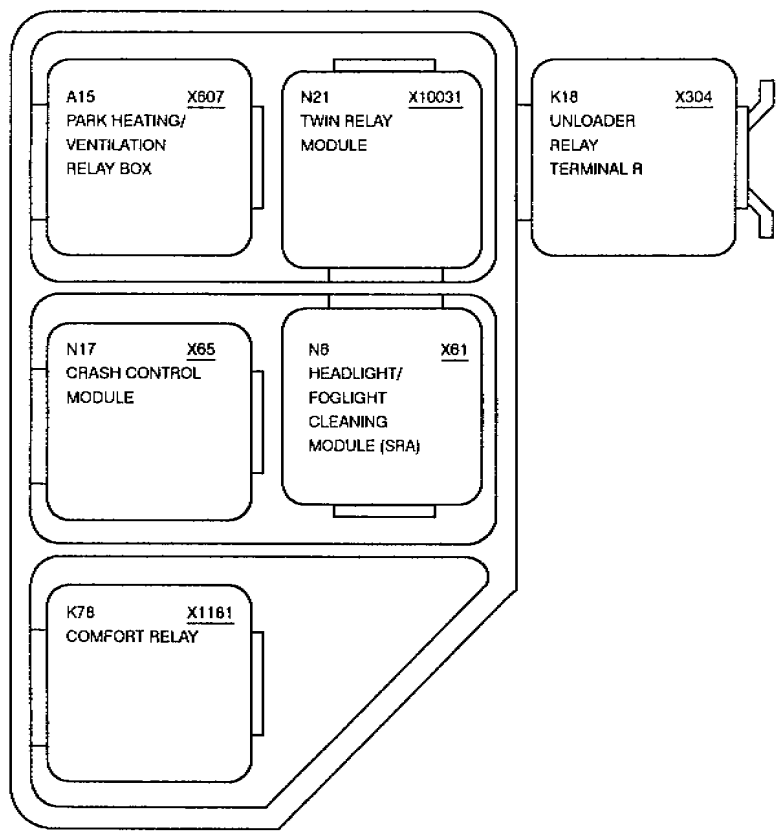
POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX



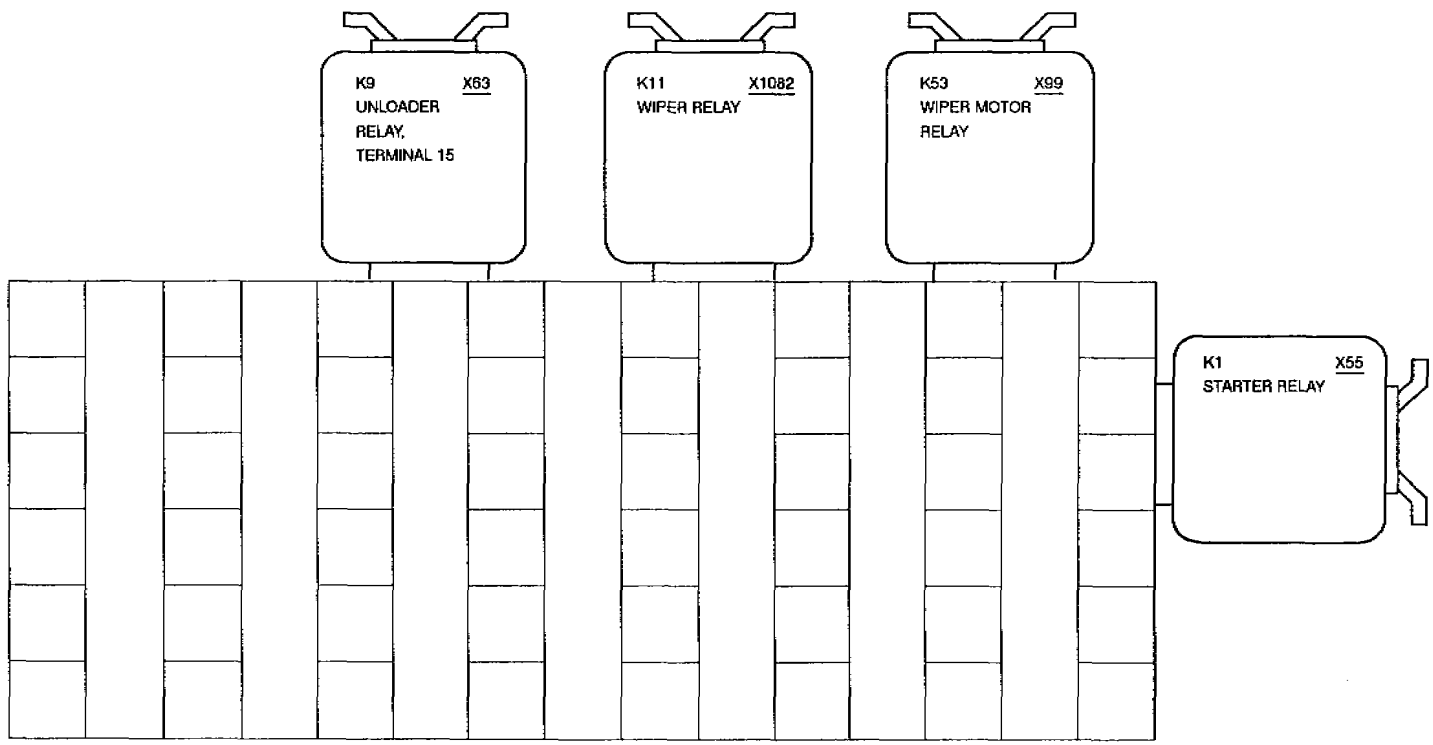
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A		30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	5A	5A		15A	15A	30A	5A	5A	5A	10A	5A	15A	5A	5A	7.5A
1210.7	ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)																●		●										●	
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																		●											
1230.0	CHARGING SYSTEM																													
1240.0	START																												●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																													
3450.0	SLIP CONTROL (ABS)										●											●						●		
5116.0	POWER MIRRORS																								●					
5126.2	CENTRAL LOCKING MODULE II (ZVM II)							●																						
5133.1	POWER WINDOWS (FH)													●	●															
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER SUN ROOF (SHD)	●												●																
6133.0	HORN								●																					
6160.1	WIPER/ WASHER MODULE (WWM)																													
6167.1	HEADLIGHT WASHER (SRA)			●																										
6211.0	INSTRUMENT CLUSTER																							●				●		
6213.2	MULTI-FUNCTION CLOCK																							●				●		
6300.0	LIGHT SWITCH DETAILS																						●			●				

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A		30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A		15A	15A	30A	5A	5A	5A	10A	5A	15A	5A	5A	7.5A
6312.0	HEADLIGHTS/ FOG LIGHTS											●	●			●							●	●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL LIGHTS																						●							
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS																													
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER																													
6350.0	CRASH CONTROL MODULE											●	●													●				●
6412.5	PARK VENTILATION WITH IHKR																			●	●									
6424.0	REAR WINDOW DEFOGGER						●																	●						
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)																●				●			●						
6510.0	RADIO/STEREO									●																				
6510.1	RADIO/HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI-THEFT SYSTEM (ALPINE)																													
6581.2	ON-BOARD COMPUTER (BC V)											●	●											●				●		

FUSE CHART

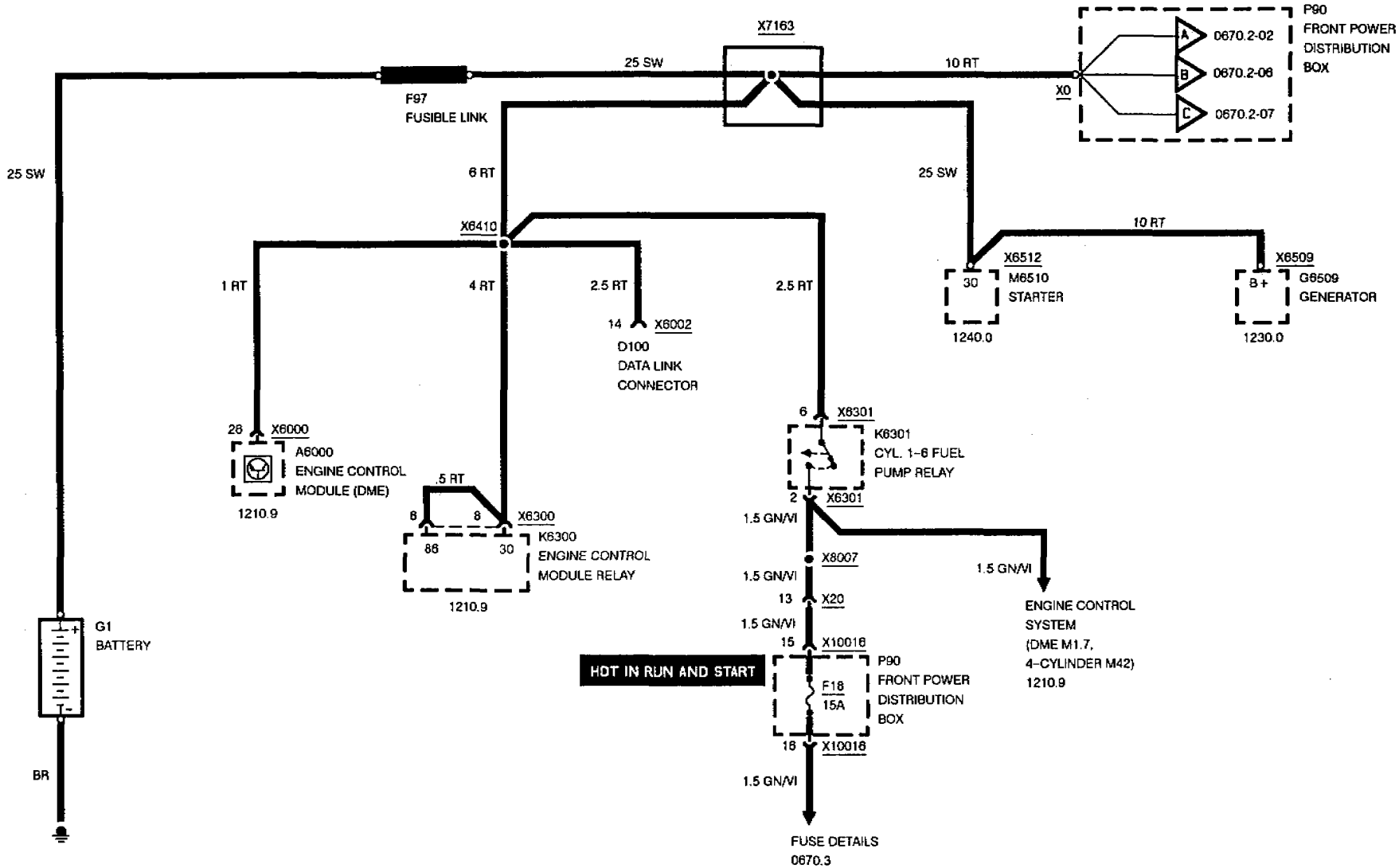
FUSE 30 TO 46

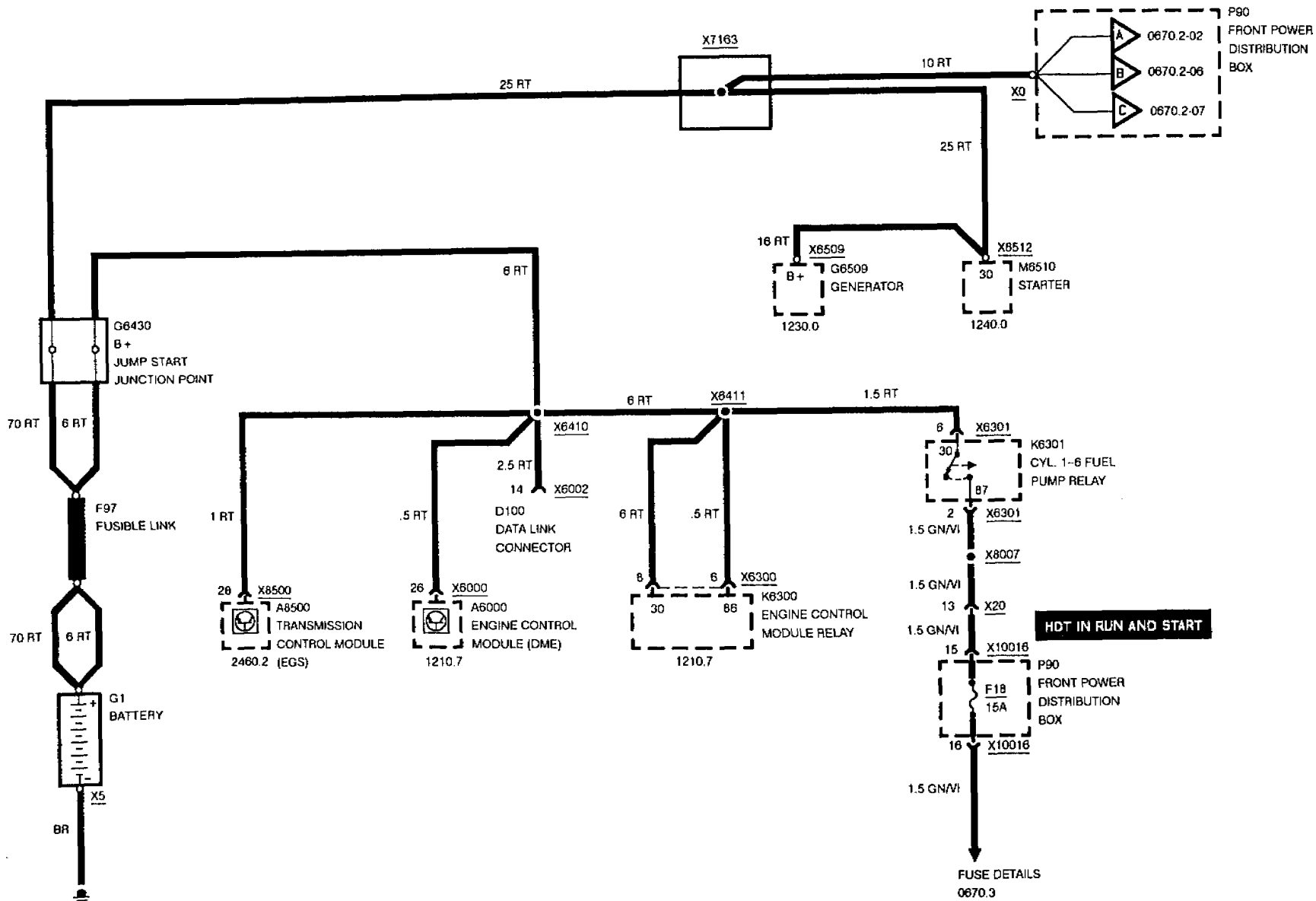
		FUSE NUMBER															
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A		5A	15A	7.5A	15A
1210.7	ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)																	
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																	
1230.0	CHARGING SYSTEM																	
1240.0	START																	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																	●
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																	
3450.0	SLIP CONTROL (ABS)									●								●
5116.0	POWER MIRRORS																	
5126.2	CENTRAL LOCKING MODULE II (ZVM II)						●								●			
5133.1	POWER WINDOWS (FH)																	
5200.0	POWER SEATS											●						
5203.0	HEATED SEATS																	
5410.1	POWER SUN ROOF (SHD)																	
6133.0	HORN																	
6160.1	WIPER/ WASHER MODULE (WWM)							●	●							●	●	
6167.1	HEADLIGHT WASHER (SRA)																	
6211.0	INSTRUMENT CLUSTER		●															●
6213.2	MULTI-FUNCTION CLOCK		●														●	●
6300.0	LIGHT SWITCH DETAILS				●				●									

FUSE CHART

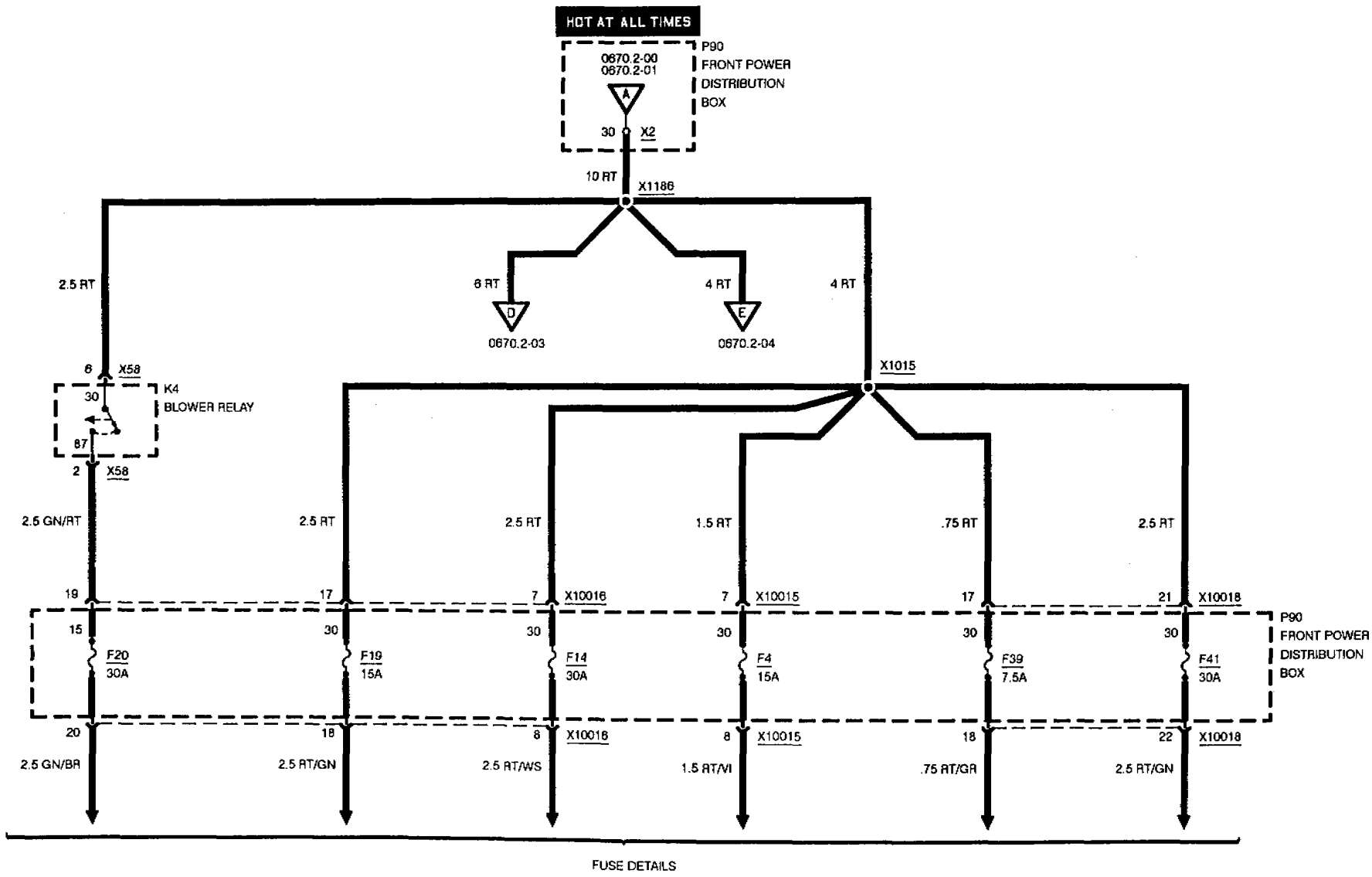
FUSE 30 TO 46

		FUSE NUMBER																
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A		5A	15A	7.5A	15A
6312.0	HEADLIGHTS/ FOG LIGHTS	●																
6313.0	TURN/HAZARD LIGHTS					●												
6314.0	PARK/TAIL LIGHTS				●				●									
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																	
6322.0	BACK UP LIGHTS																	
6325.0	BRAKE LIGHTS																	●
6330.3	INTERIOR LIGHTS				●										●			
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER			●	●				●							●		
6350.0	CRASH CONTROL MODULE					●												
6412.5	PARK VENTILATION WITH IHKR																	
6424.0	REAR WINDOW DEFOGGER																	
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)		●						●		●		●					
6510.0	RADIO/STEREO															●		
6510.1	RADIO/HIFI															●		
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●			
6571.0	CRUISE CONTROL (TEMPOMAT)																	●
6575.2	ANTI-THEFT SYSTEM (ALPINE)				●											●		
6581.2	ON-BOARD COMPUTER (BC V)		●		●				●								●	●

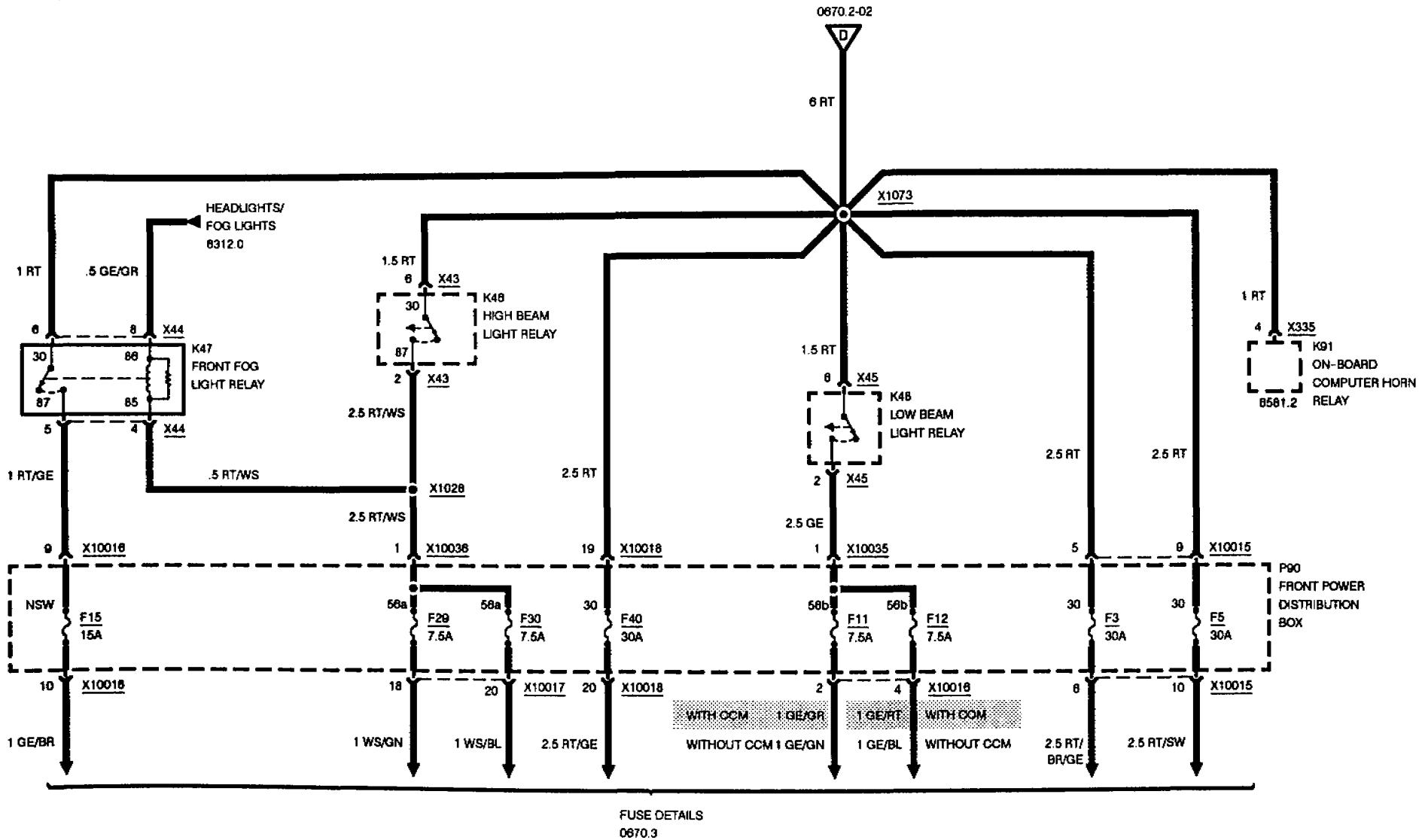

X7163
25 SW
10 RT
P90
FRONT POWER
DISTRIBUTION
BOX
A
0670.2-02
B
0670.2-06
C
0670.2-07
X0
F97
FUSIBLE LINK
25 SW
6 RT
25 SW
X6410
10 RT
1 RT
4 RT
2.5 RT
2.5 RT
X6512
30
M6510
STARTER
1240.0
X6509
B+
G6509
GENERATOR
1230.0
14
X6002
D100
DATA LINK
CONNECTOR
6
X6301
K6301
CYL. 1-6 FUEL
PUMP RELAY
2
X6301
28
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.9
.5 RT
8
8
X6300
86
30
K6300
ENGINE CONTROL
MODULE RELAY
1210.9
1.5 GN/VI
X8007
1.5 GN/VI
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION
BOX
F18
15A
18
X10016
1.5 GN/VI
FUSE DETAILS
0670.3
1.5 GN/VI
ENGINE CONTROL
SYSTEM
(DME M1.7,
4-CYLINDER M42)
1210.9
G1
BATTERY
BR


X7163
25 RT
10 RT
X0
P90
FRONT POWER
DISTRIBUTION
BOX
A
0670.2-02
B
0670.2-06
C
0670.2-07
25 RT
16 RT
X6509
B+
G6509
GENERATOR
1230.0
X6512
30
M6510
STARTER
1240.0
6 RT
G6430
B+
JUMP START
JUNCTION POINT
70 RT
6 RT
F97
FUSIBLE LINK
70 RT
6 RT
G1
BATTERY
X5
BR
6 RT
X6411
1.5 RT
X6410
2.5 RT
14
X6002
D100
DATA LINK
CONNECTOR
1 RT
.5 RT
6 RT
.5 RT
26
X8500
A8500
TRANSMISSION
CONTROL MODULE
2460.2 (EGS)
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.7
8
6
X6300
30
86
K6300
ENGINE CONTROL
MODULE RELAY
1210.7
6
X6301
30
K6301
CYL. 1-6 FUEL
PUMP RELAY
87
2
X6301
1.5 GN/VI
X8007
1.5 GN/VI
13
X20
1.5 GN/VI
HOT IN RUN AND START
15
X10016
P90
FRONT POWER
DISTRIBUTION
BOX
F18
15A
16
X10016
1.5 GN/VI
FUSE DETAILS
0670.3

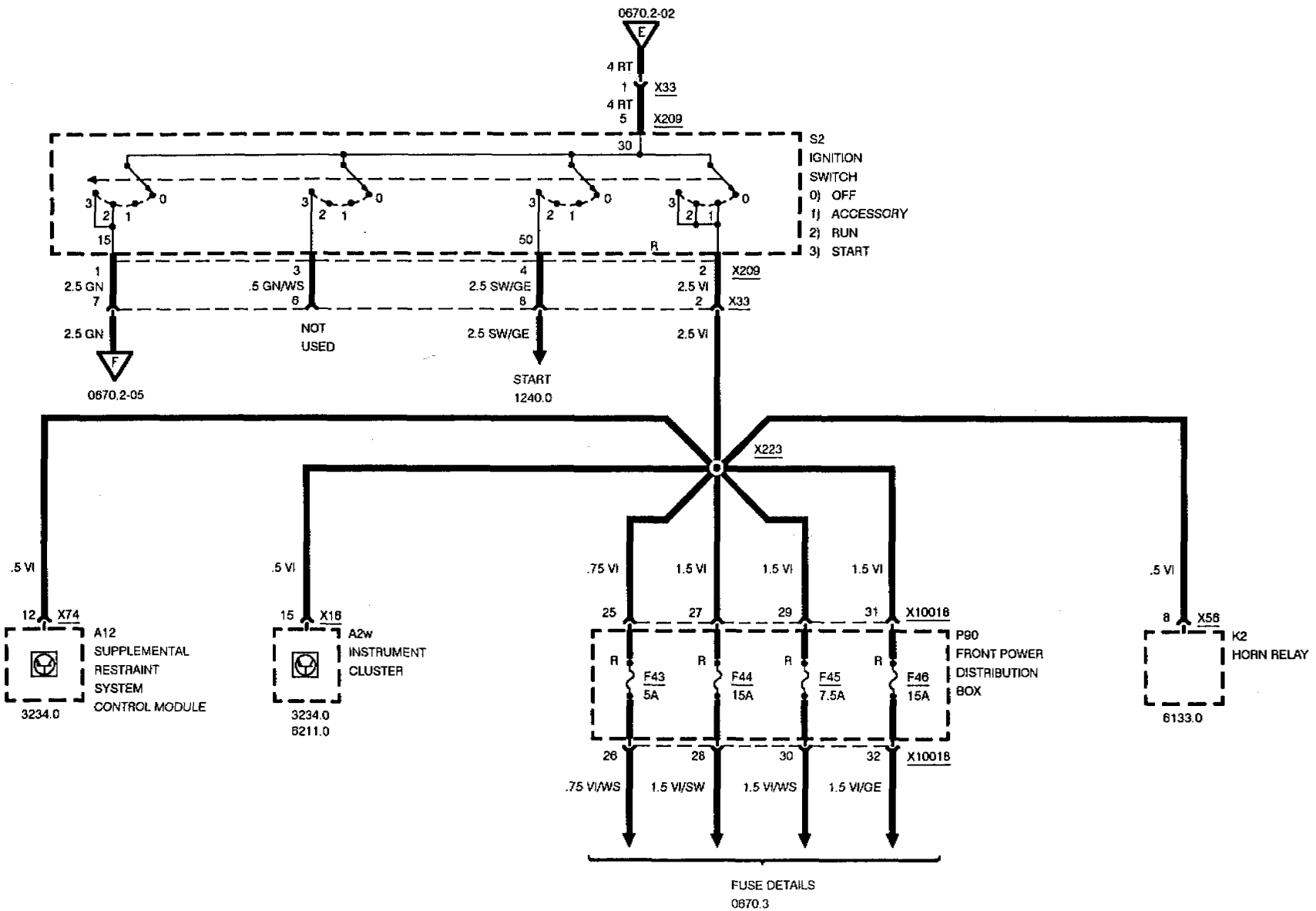
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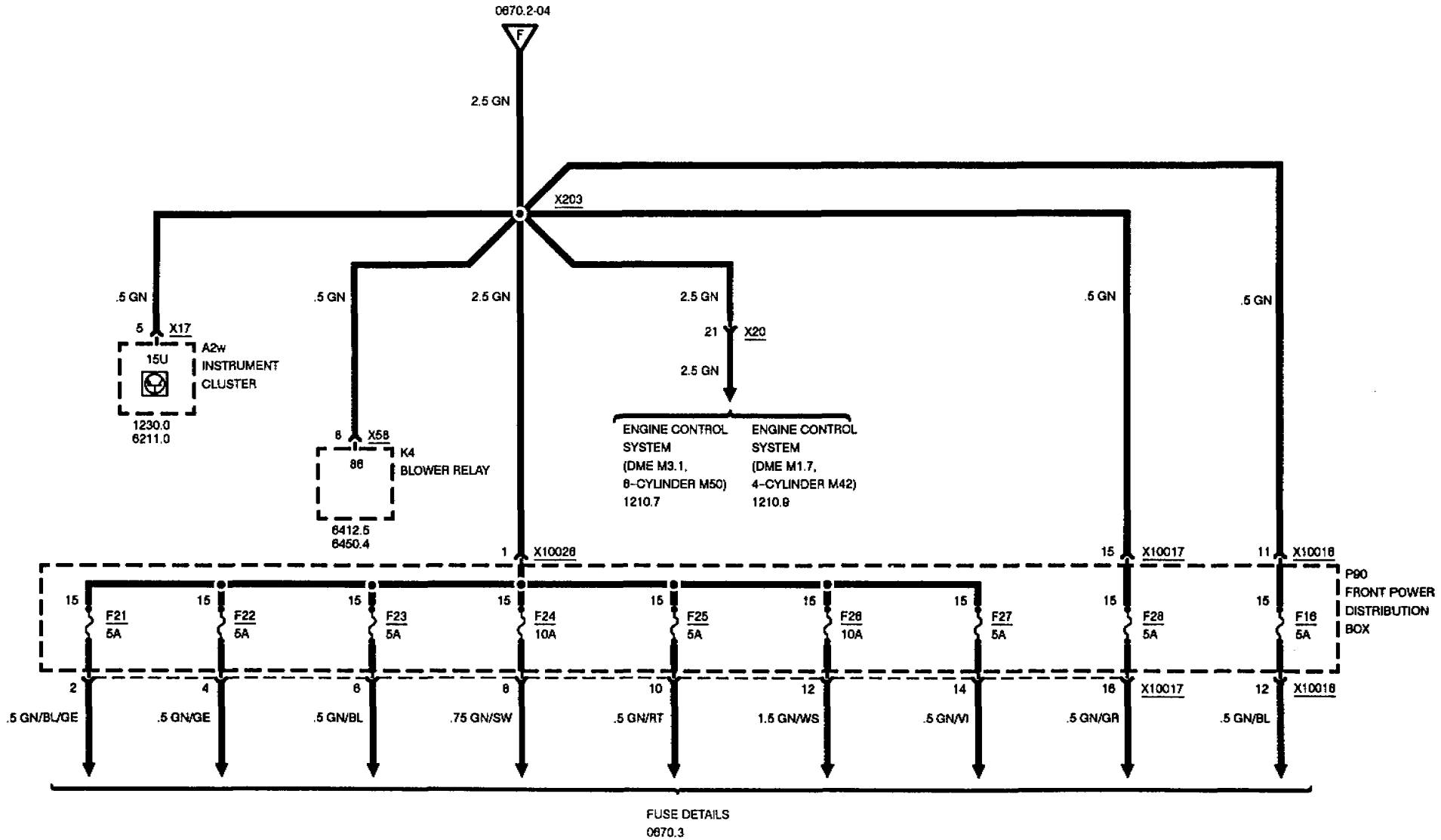
POWER DISTRIBUTION



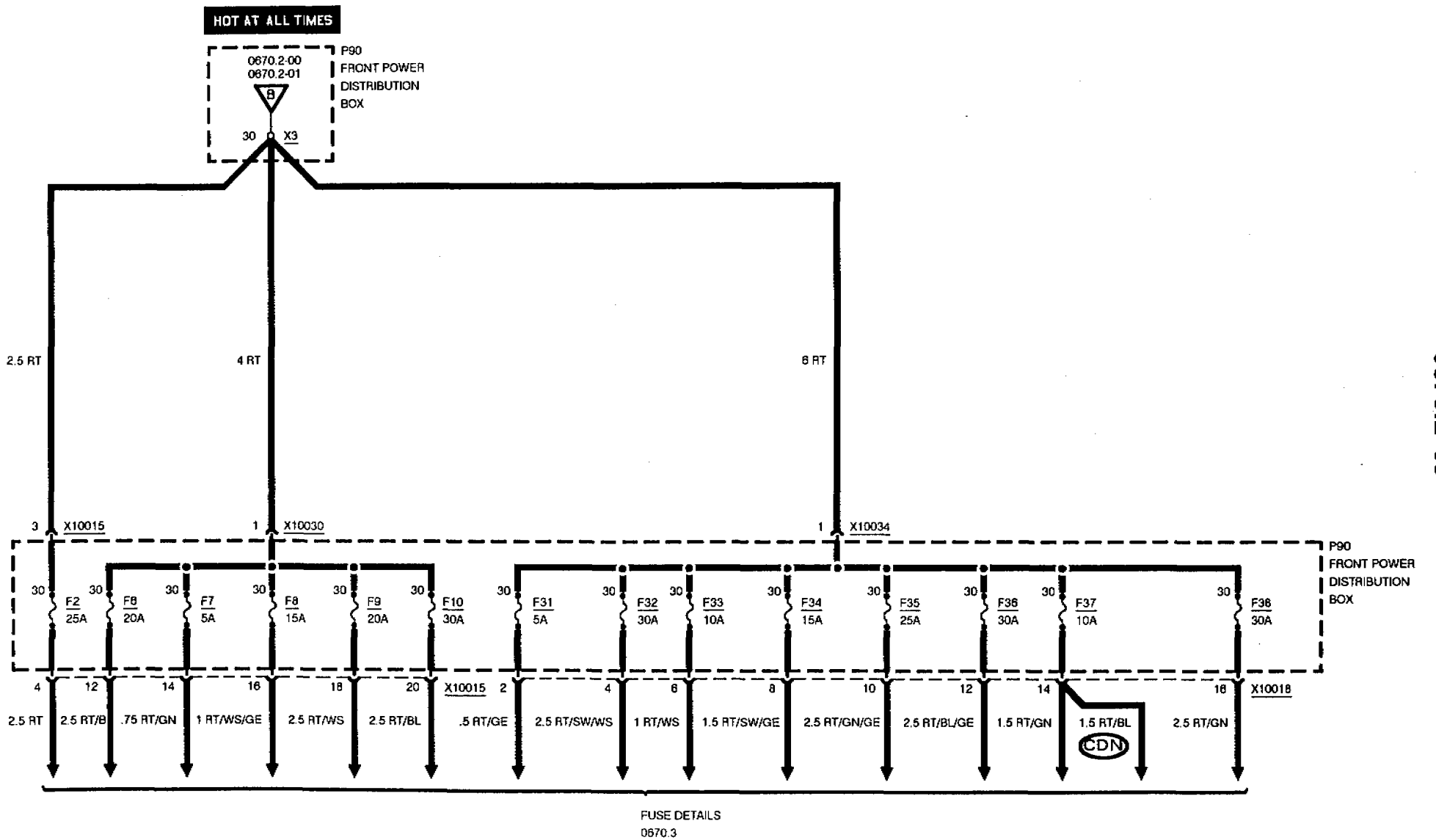
POWER DISTRIBUTION



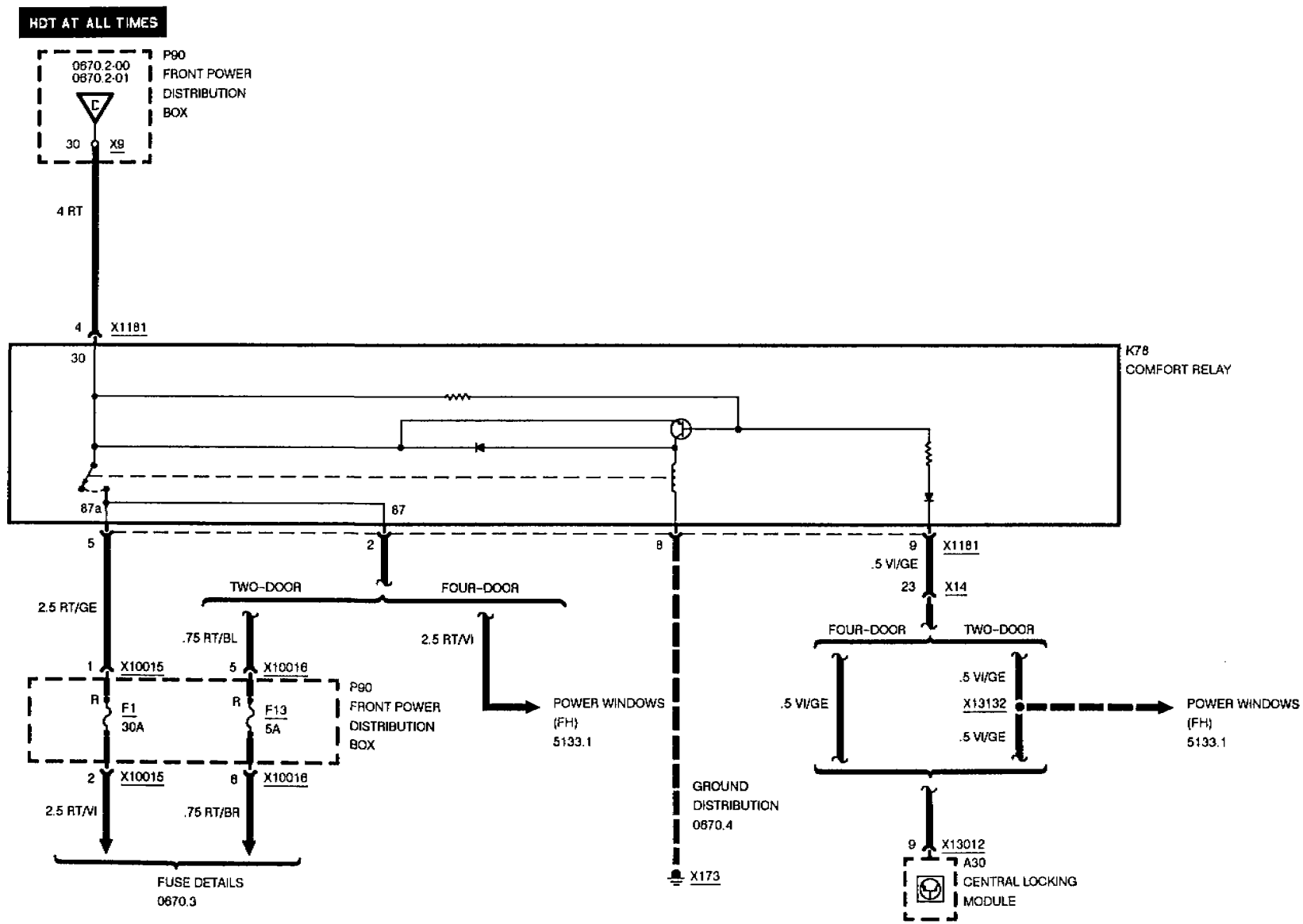
POWER DISTRIBUTION



POWER DISTRIBUTION

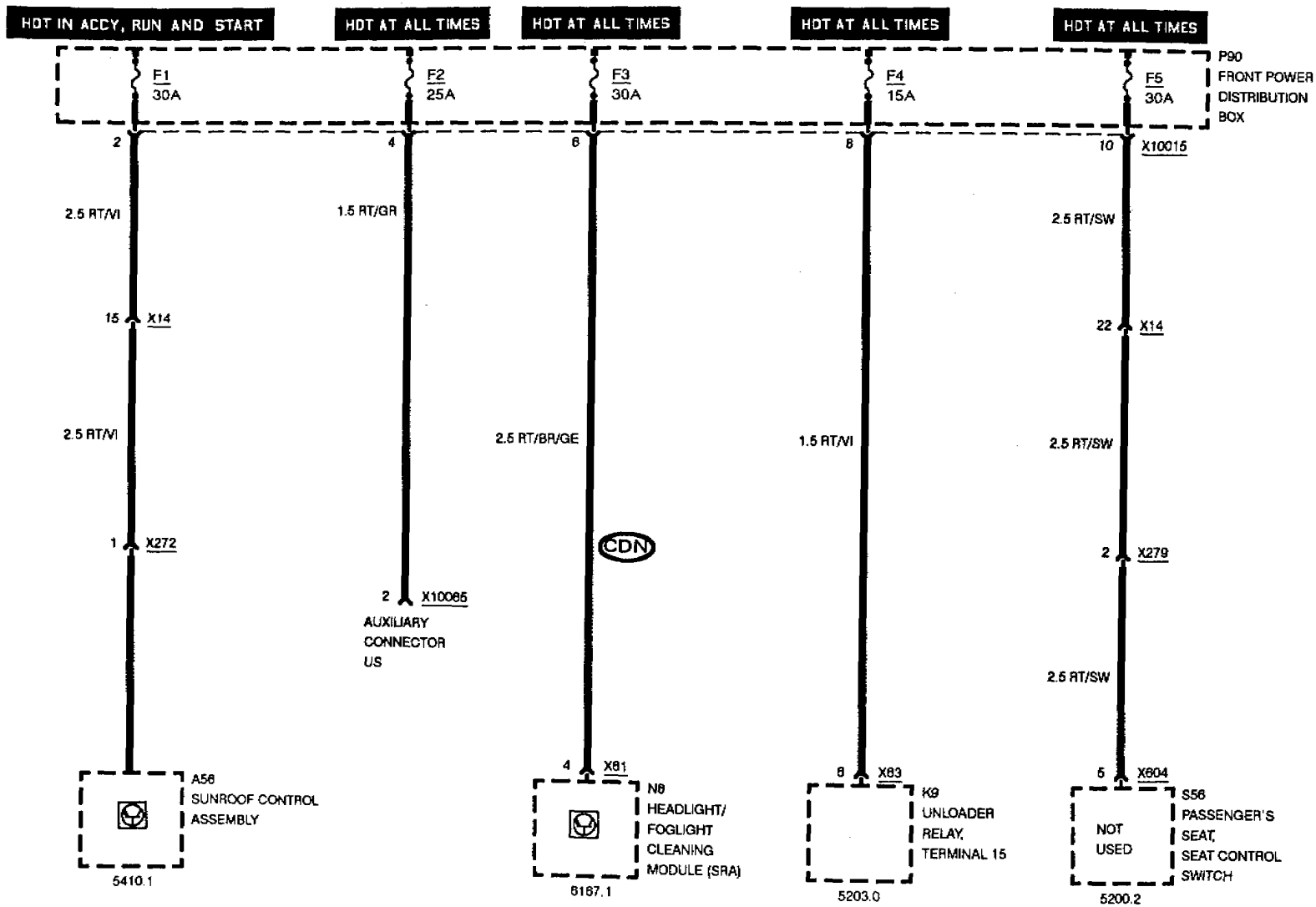


POWER DISTRIBUTION



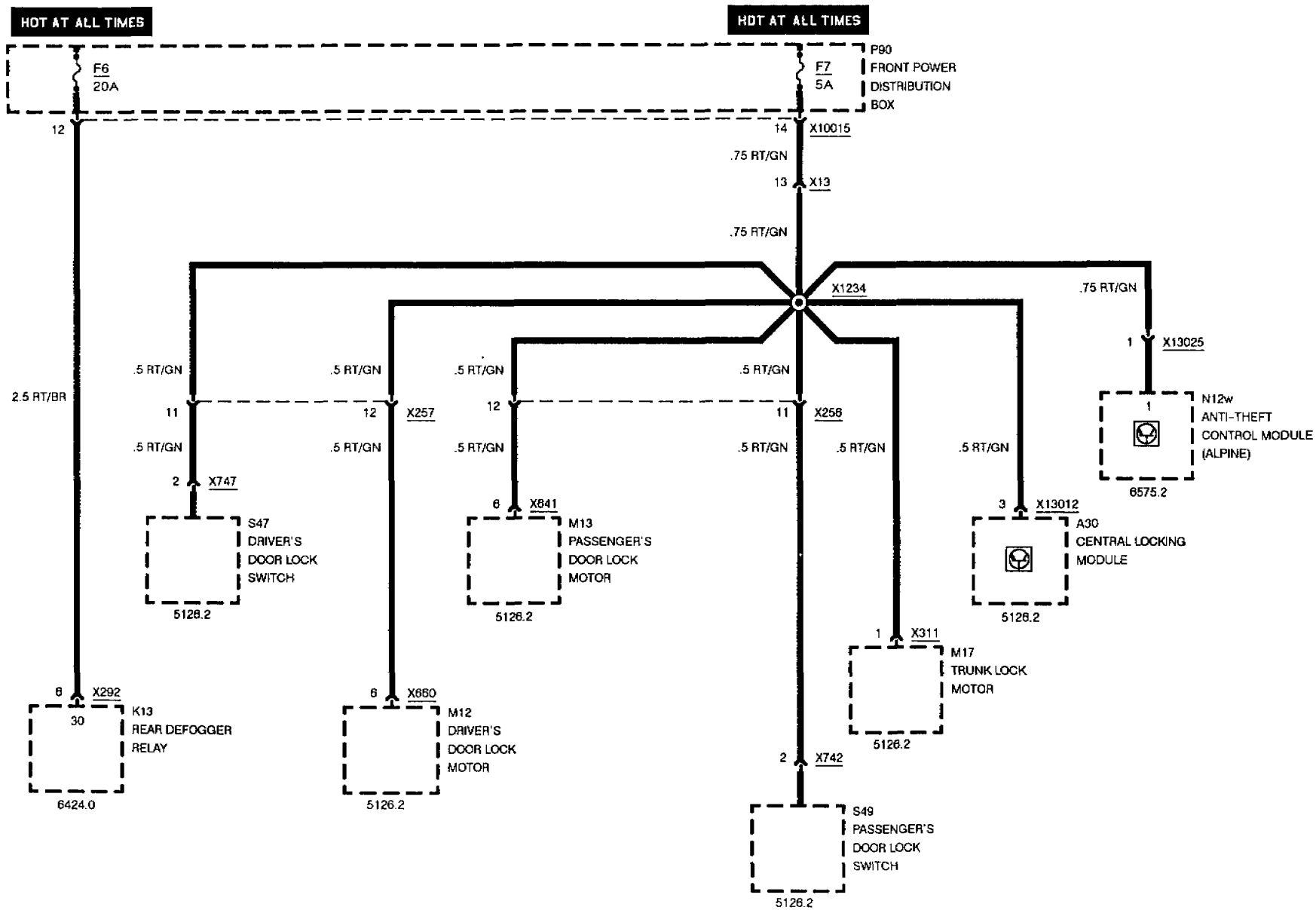
FUSE DETAILS

FUSES 1, 2, 3, 4, AND 5



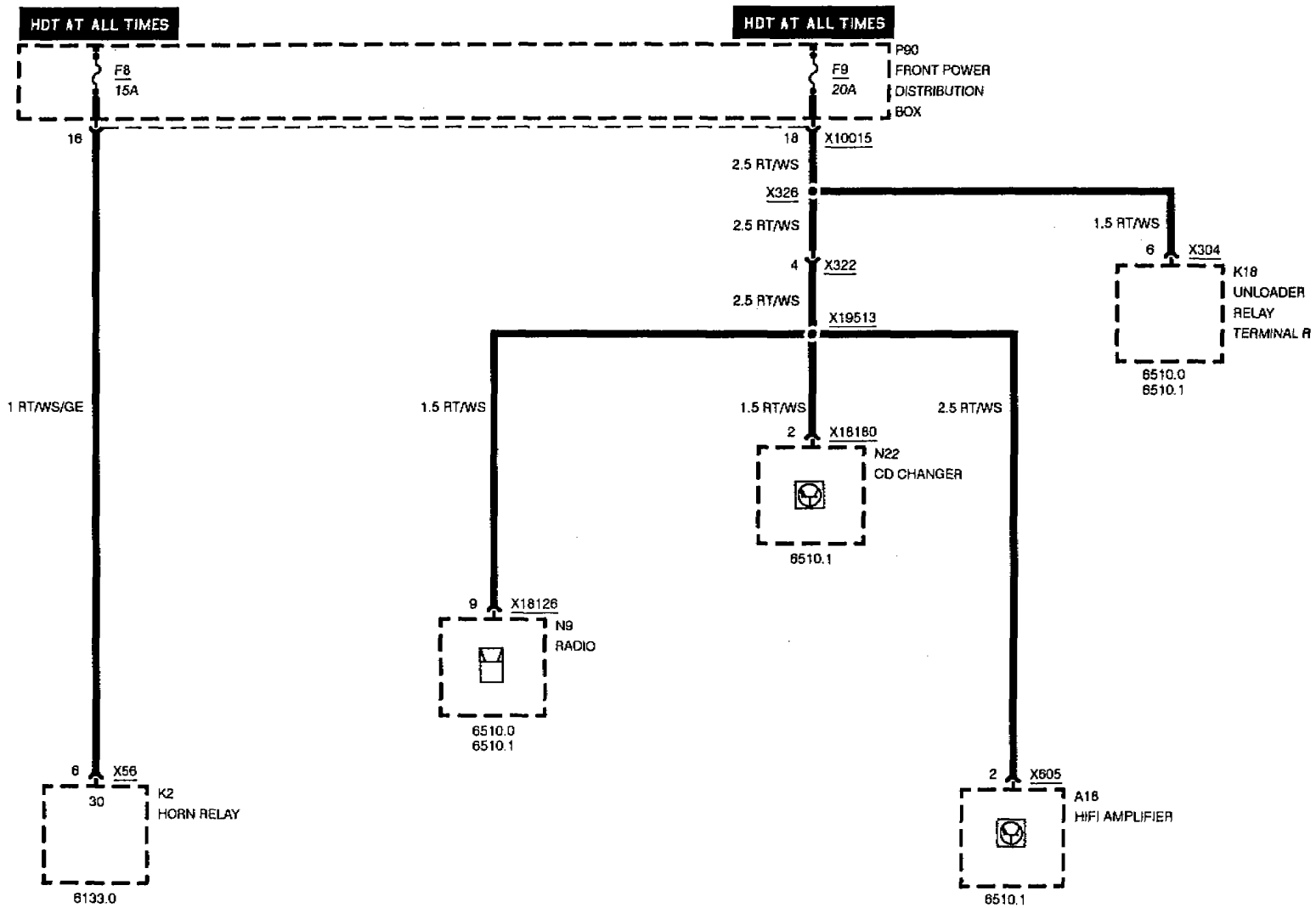
FUSE DETAILS

FUSES 6 AND 7



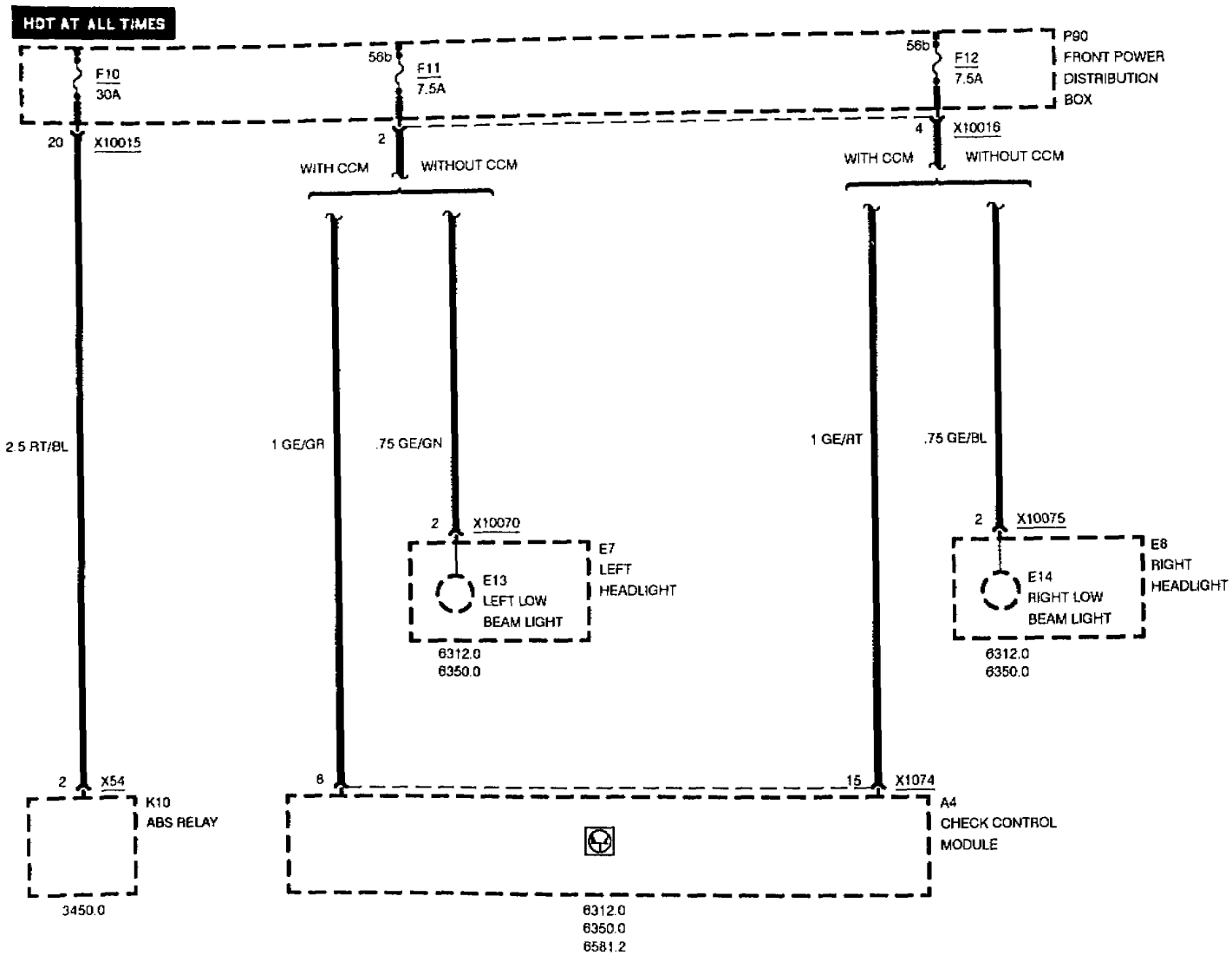
FUSE DETAILS

FUSES 8 AND 9



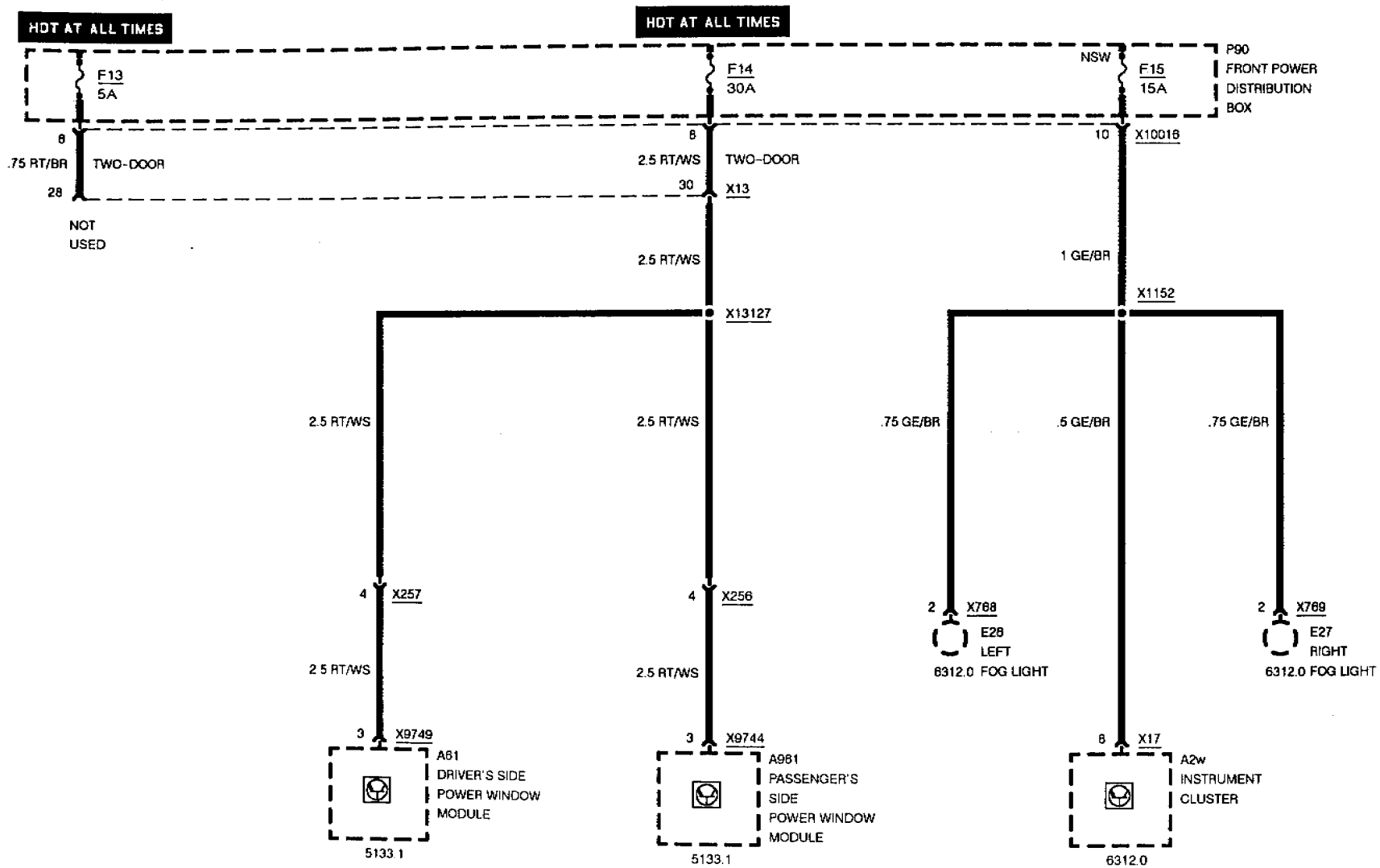
FUSE DETAILS

FUSES 10, 11, AND 12



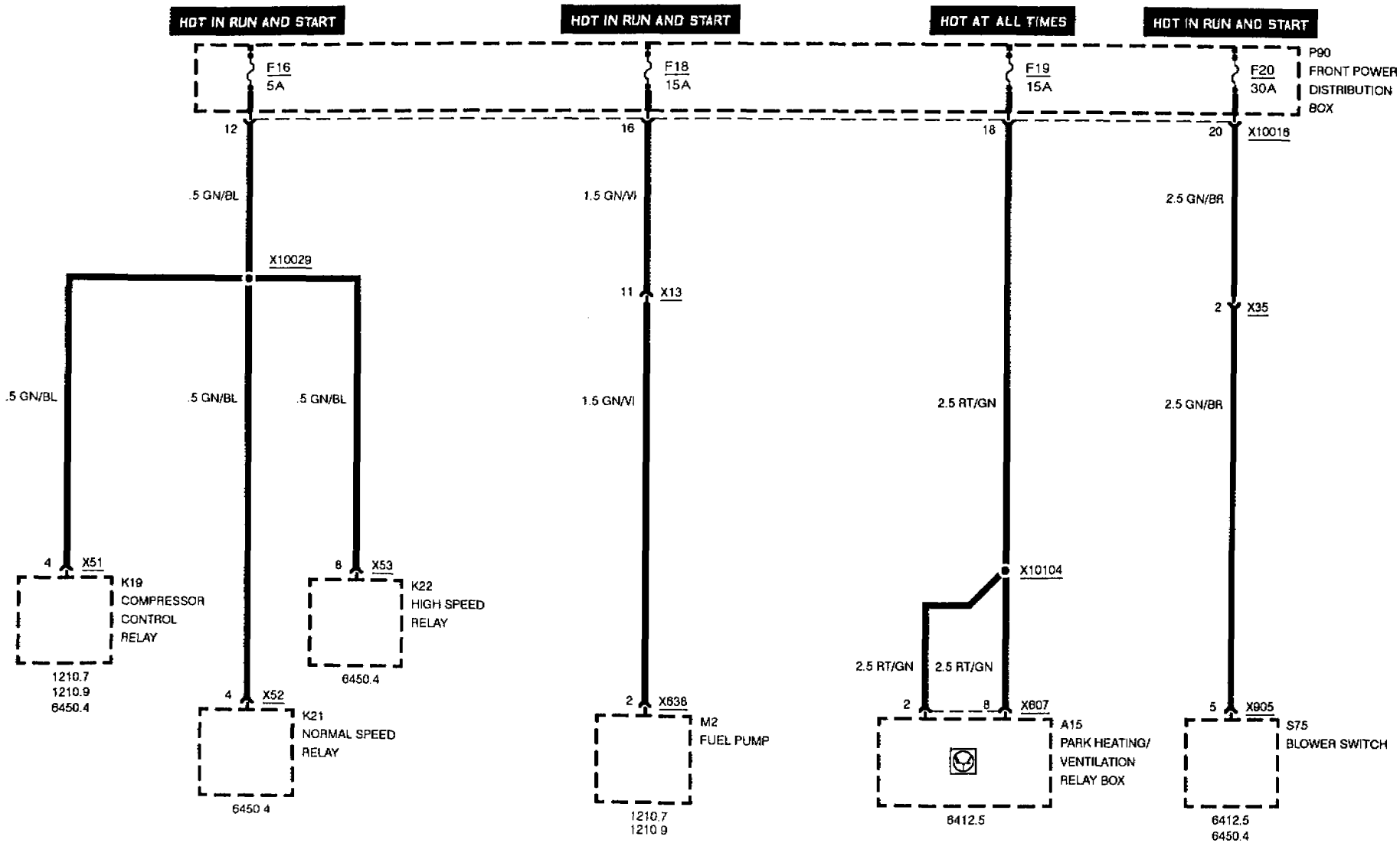
FUSE DETAILS

FUSES 13, 14, AND 15



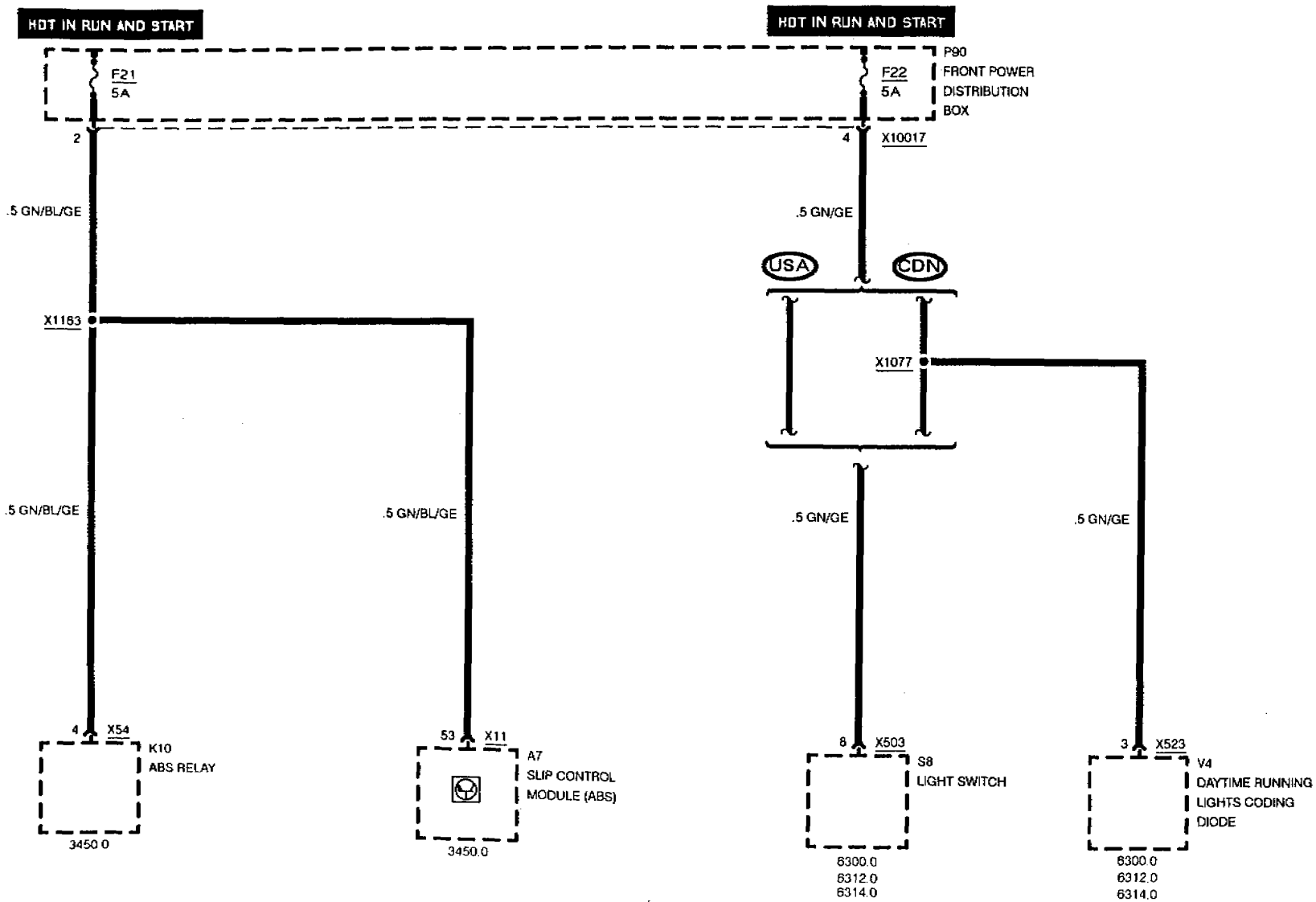
FUSE DETAILS

FUSES 16, 18, 19, AND 20



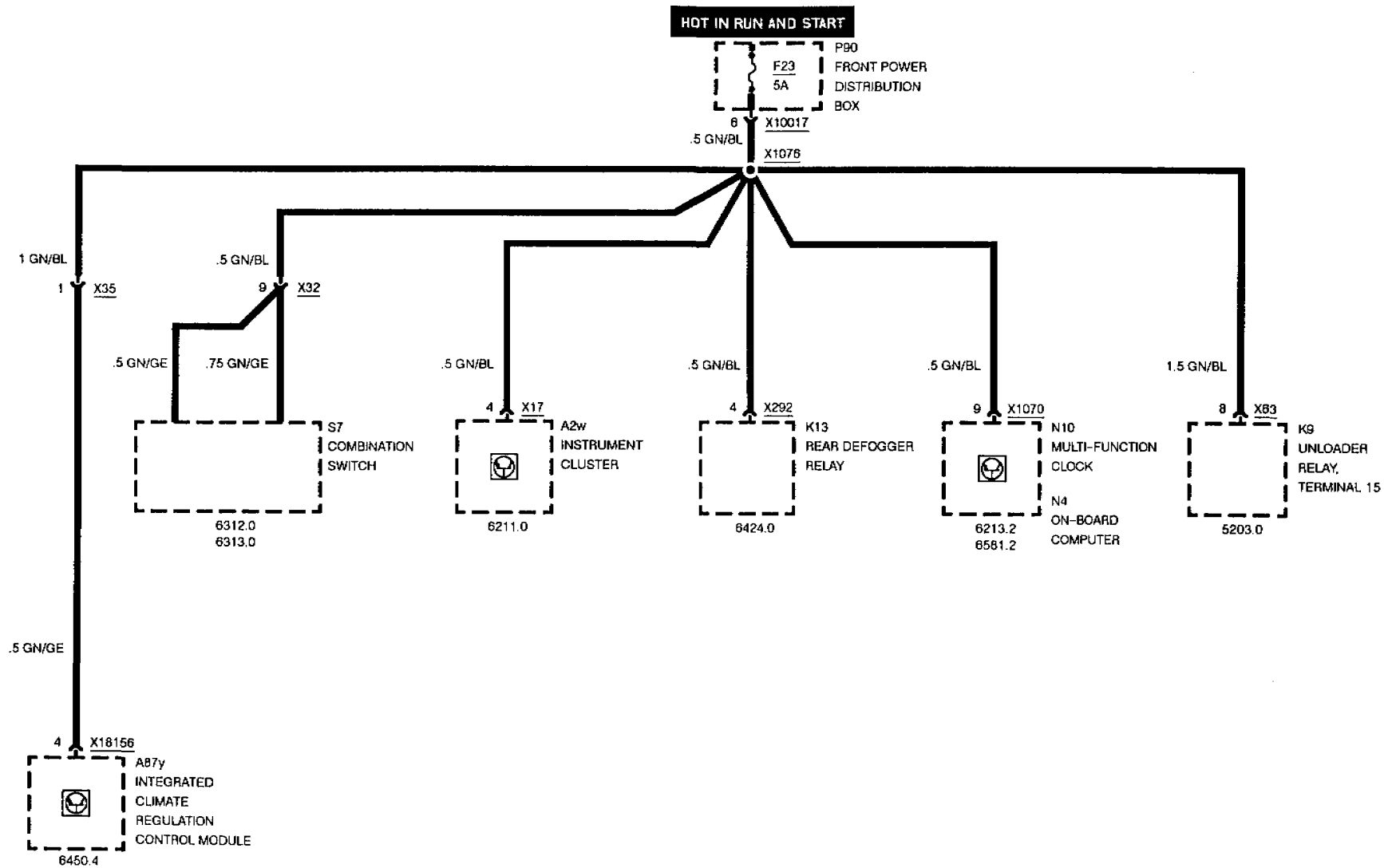
FUSE DETAILS

FUSES 21 AND 22



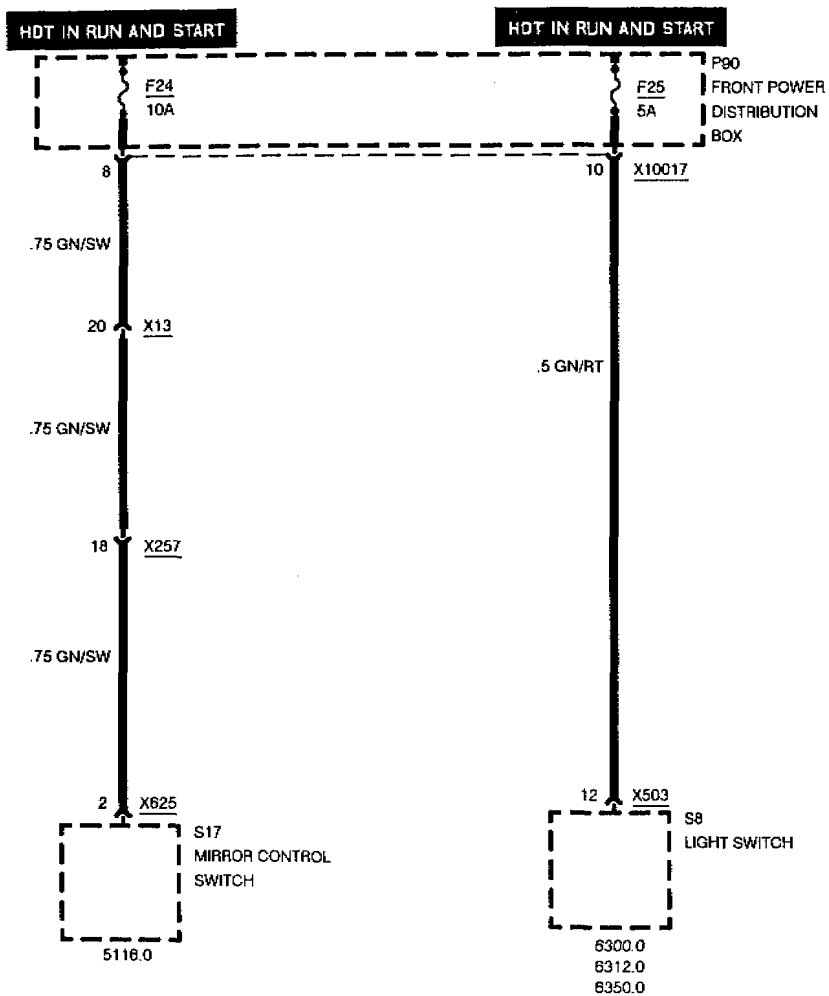
FUSE DETAILS

FUSE 23



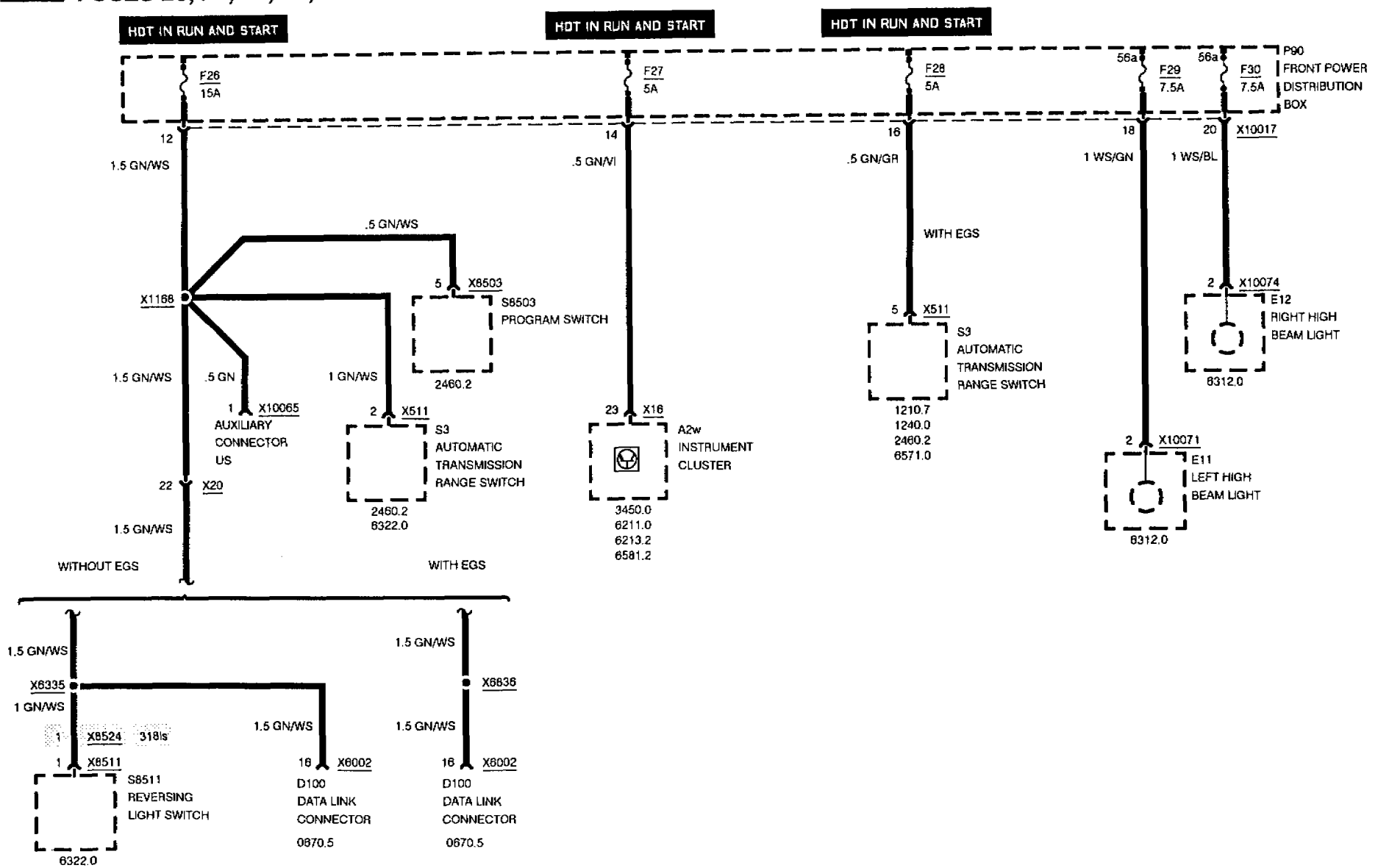
FUSE DETAILS

FUSES 24 AND 25



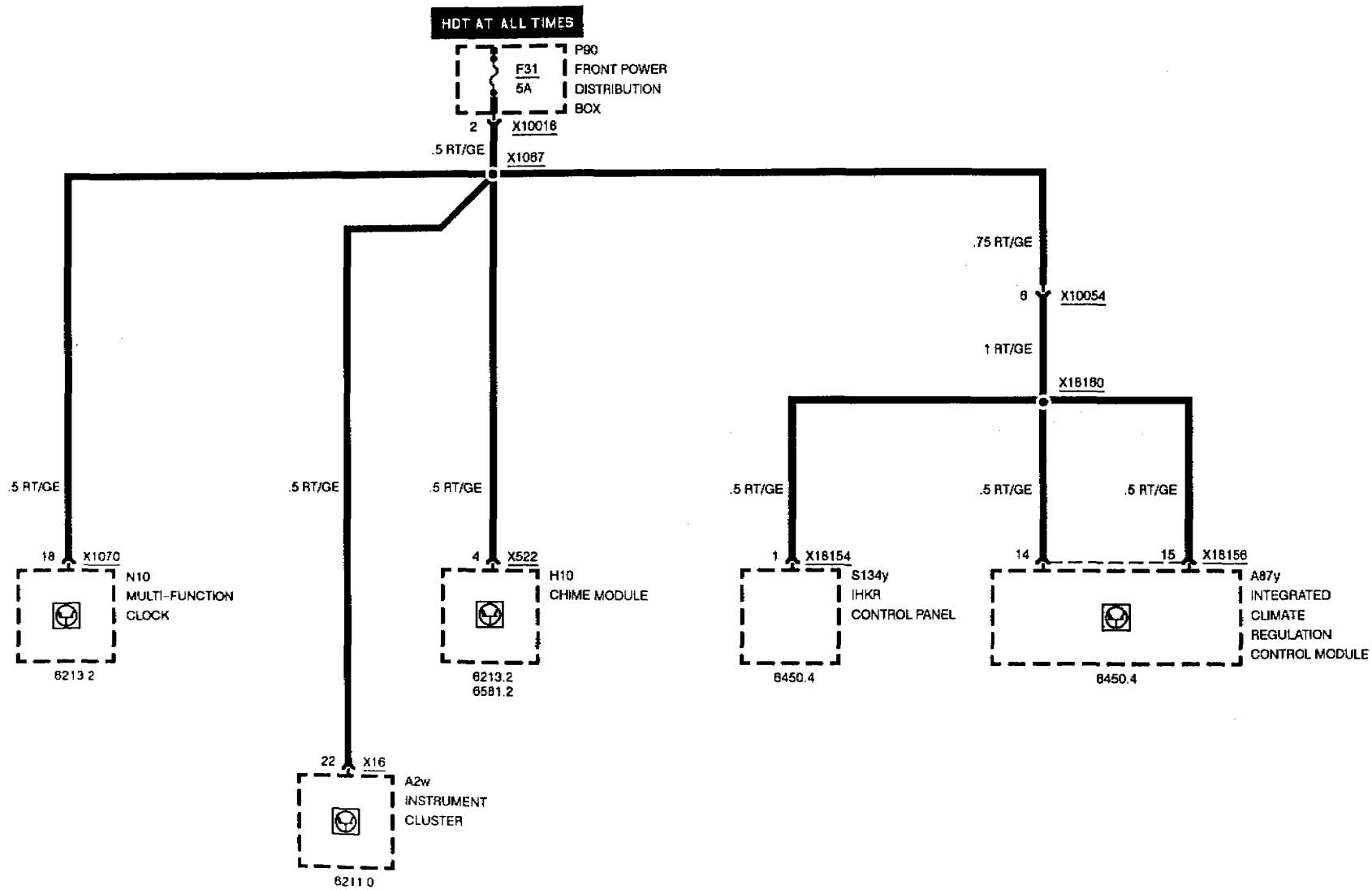
FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30



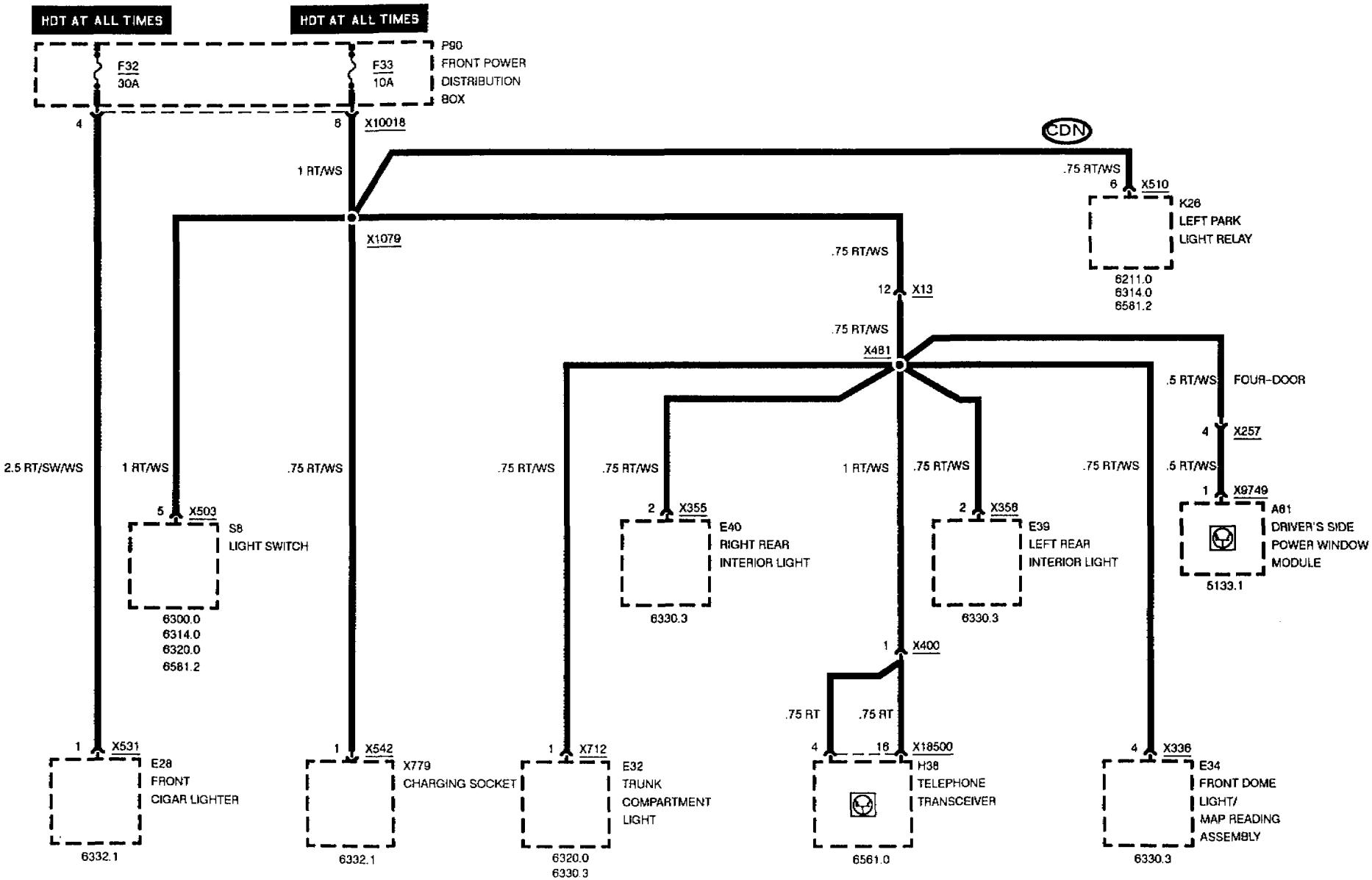
FUSE DETAILS

FUSE 31



FUSE DETAILS

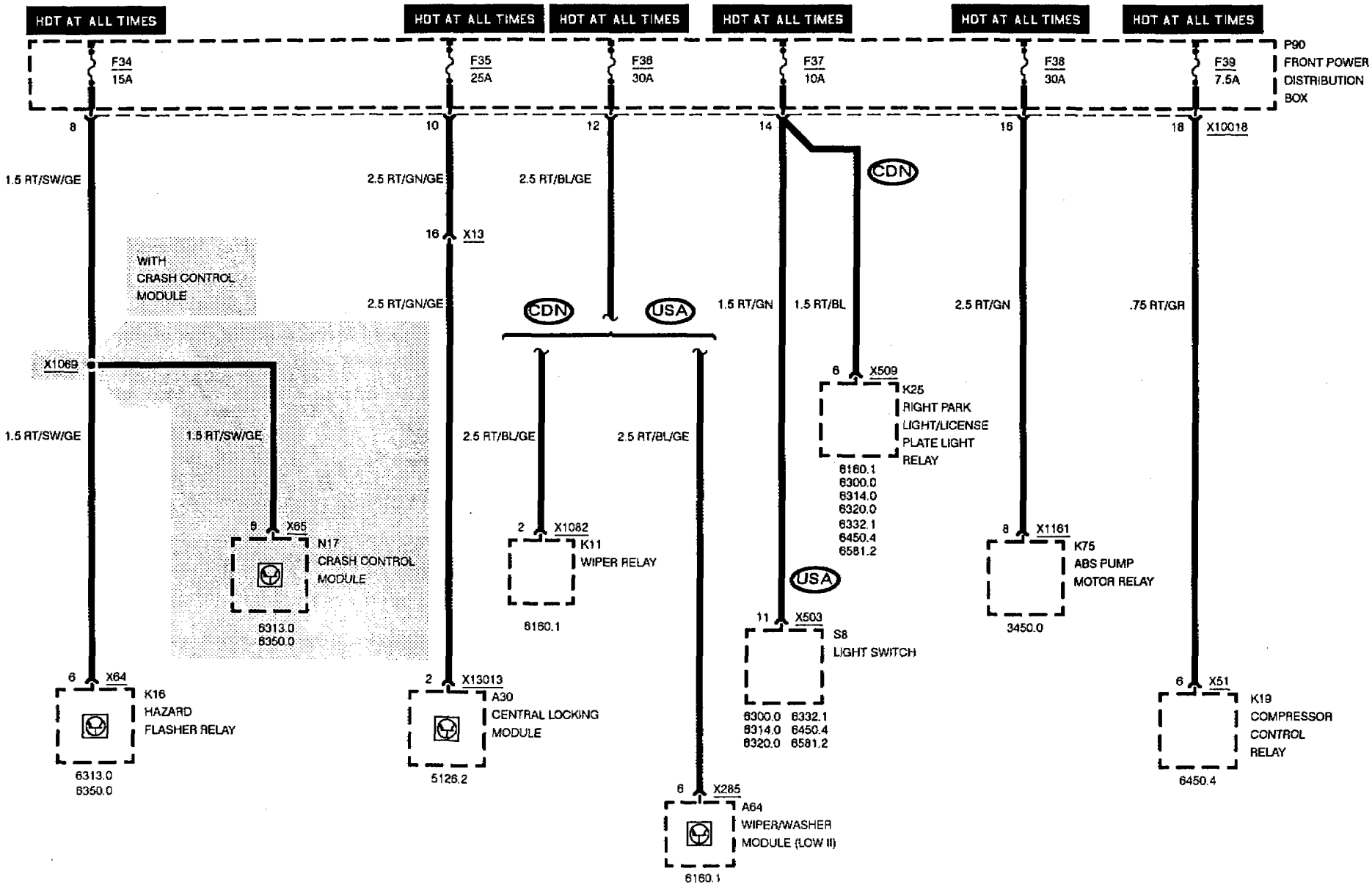
FUSES 32 AND 33



BMW 3

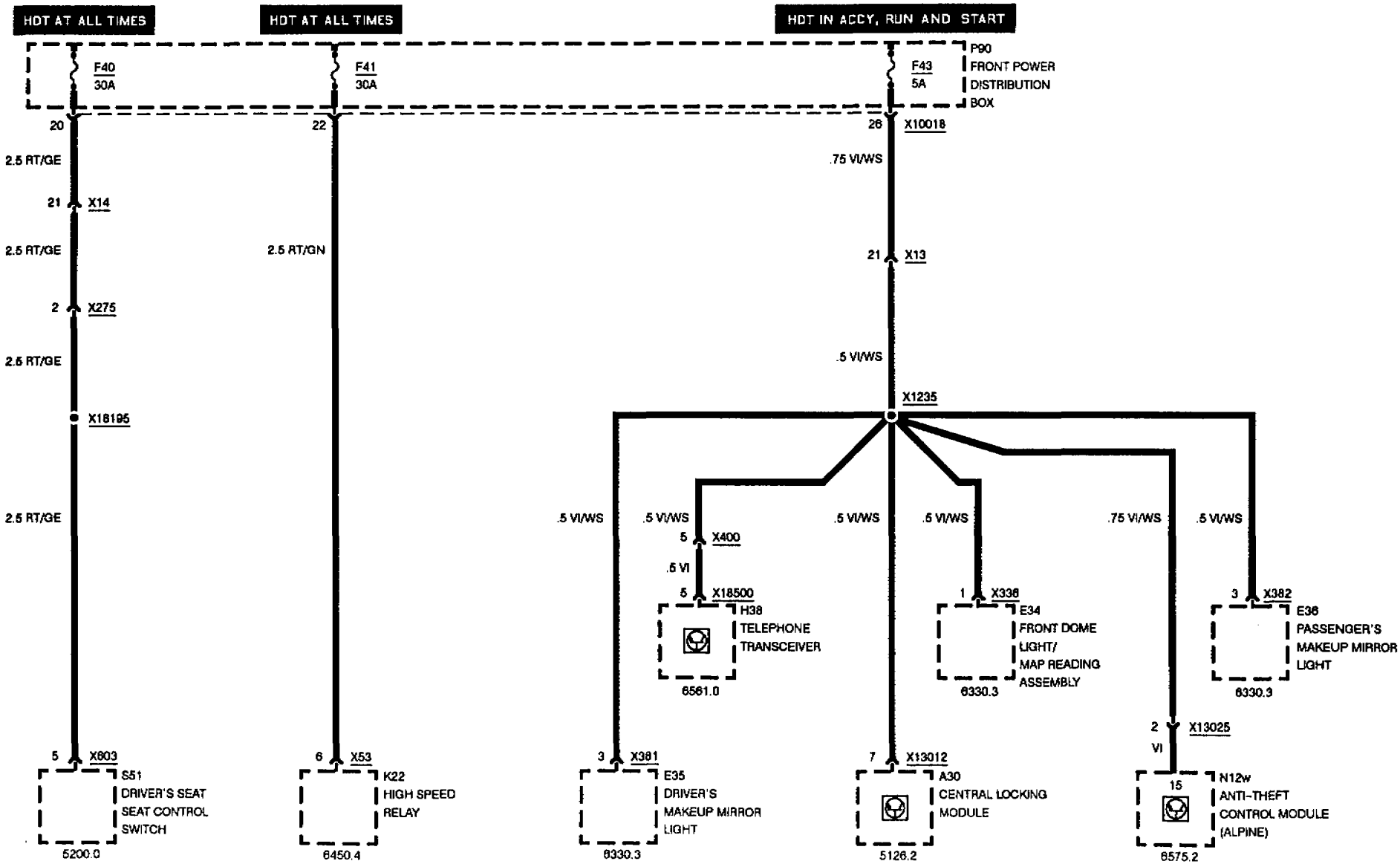
FUSE DETAILS

FUSES 34, 35, 36, 37, 38, AND 39



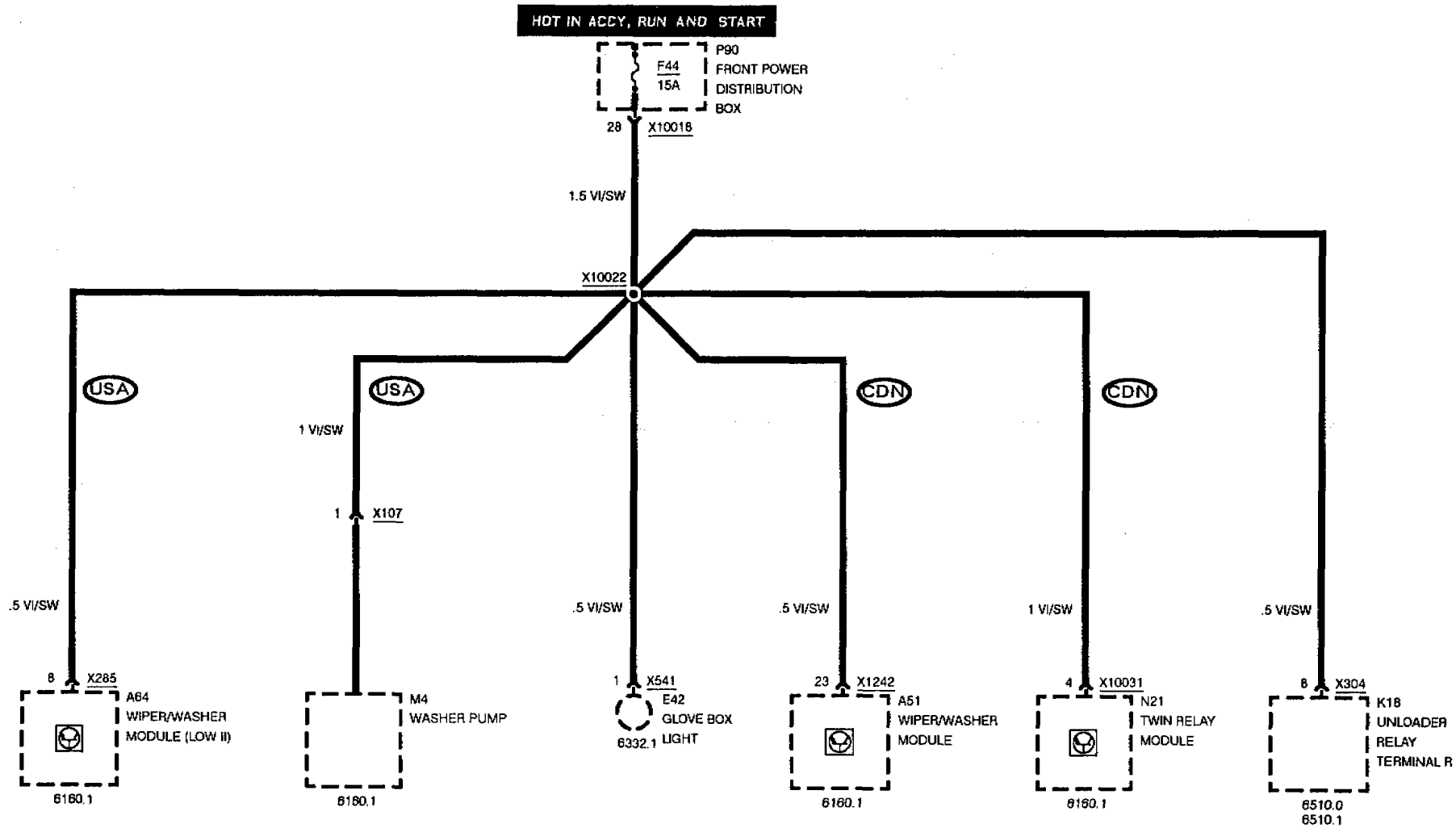
FUSE DETAILS

FUSES 40, 41, AND 43



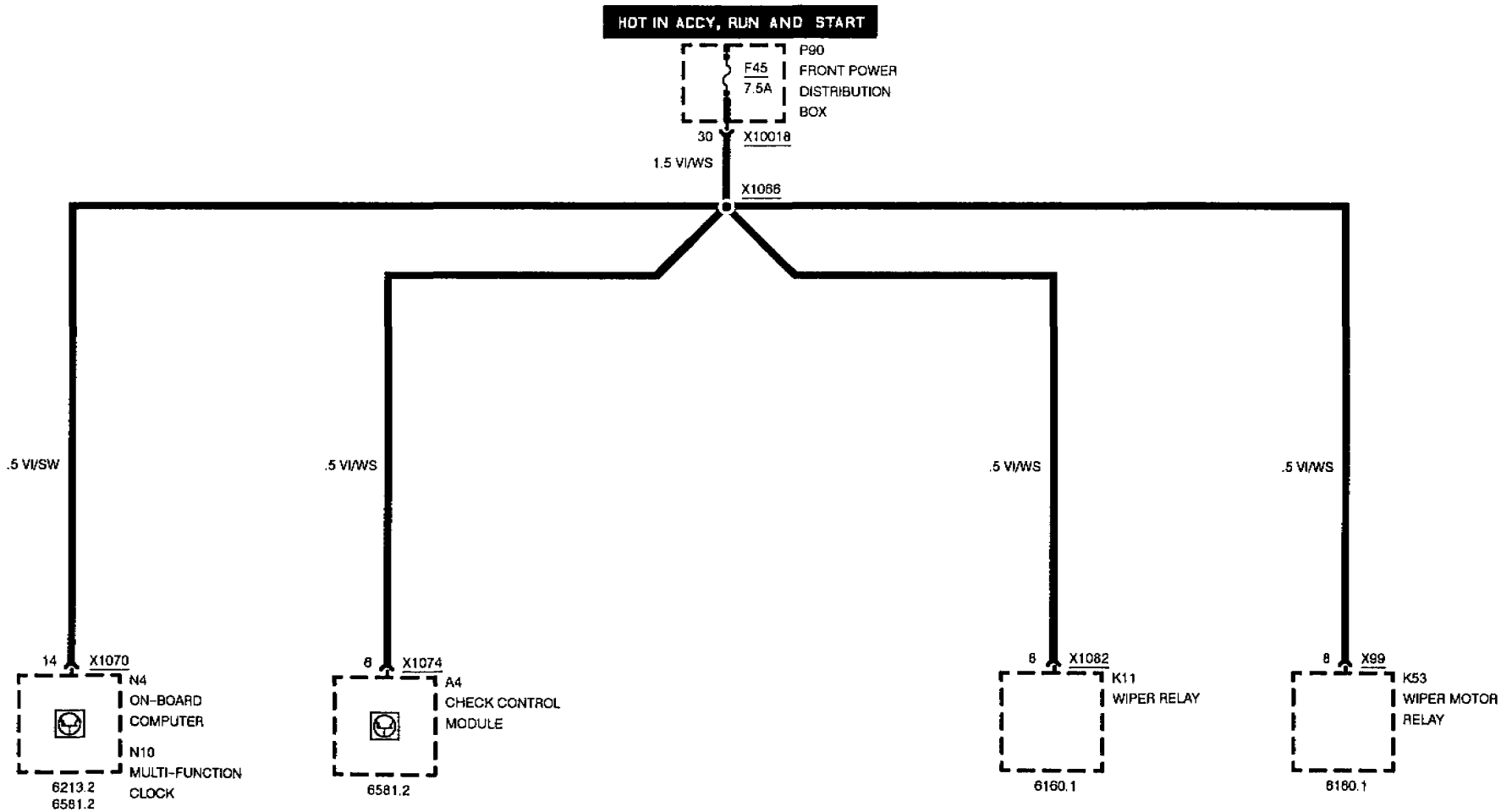
FUSE DETAILS

FUSE 44



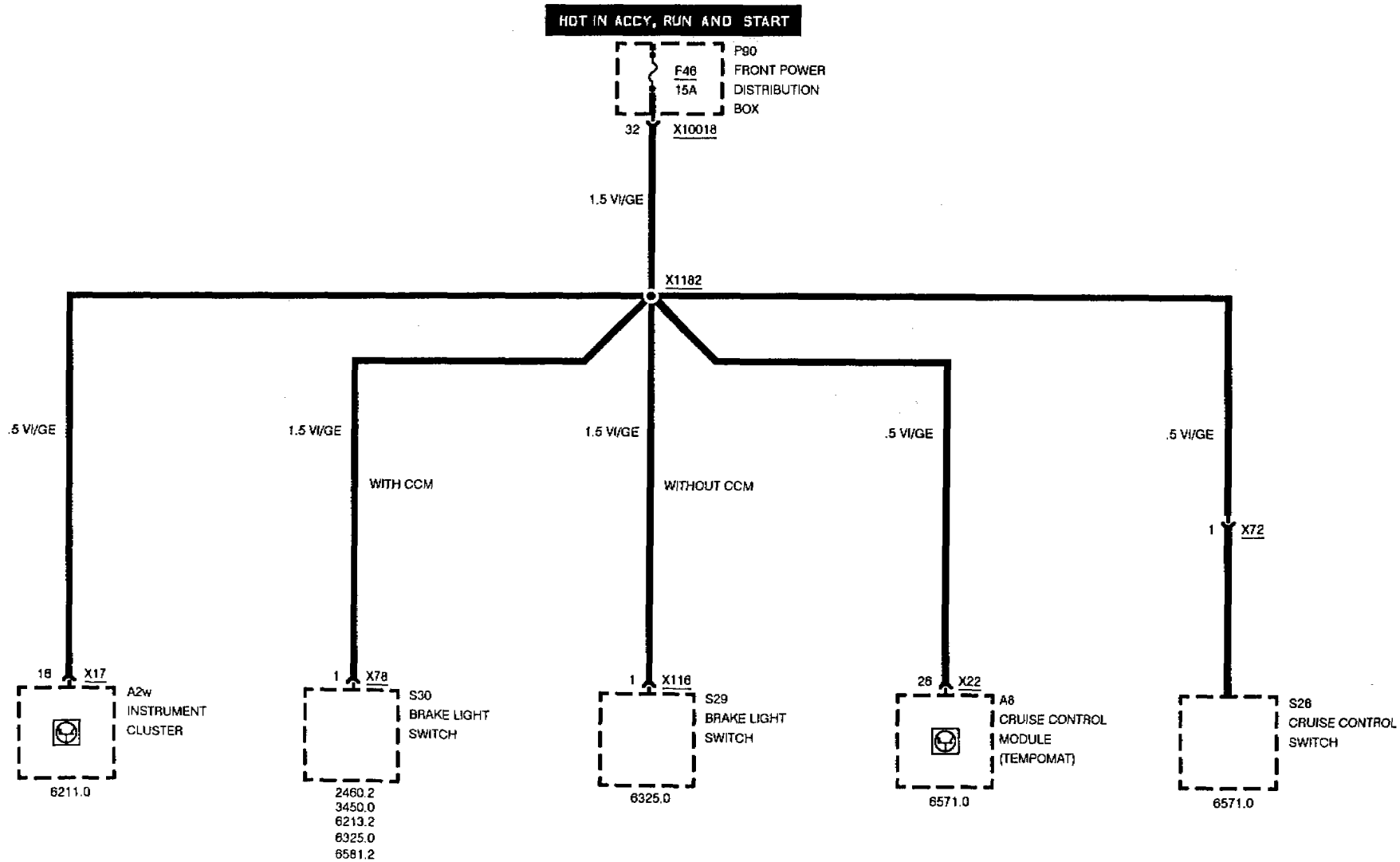
FUSE DETAILS

FUSE 45



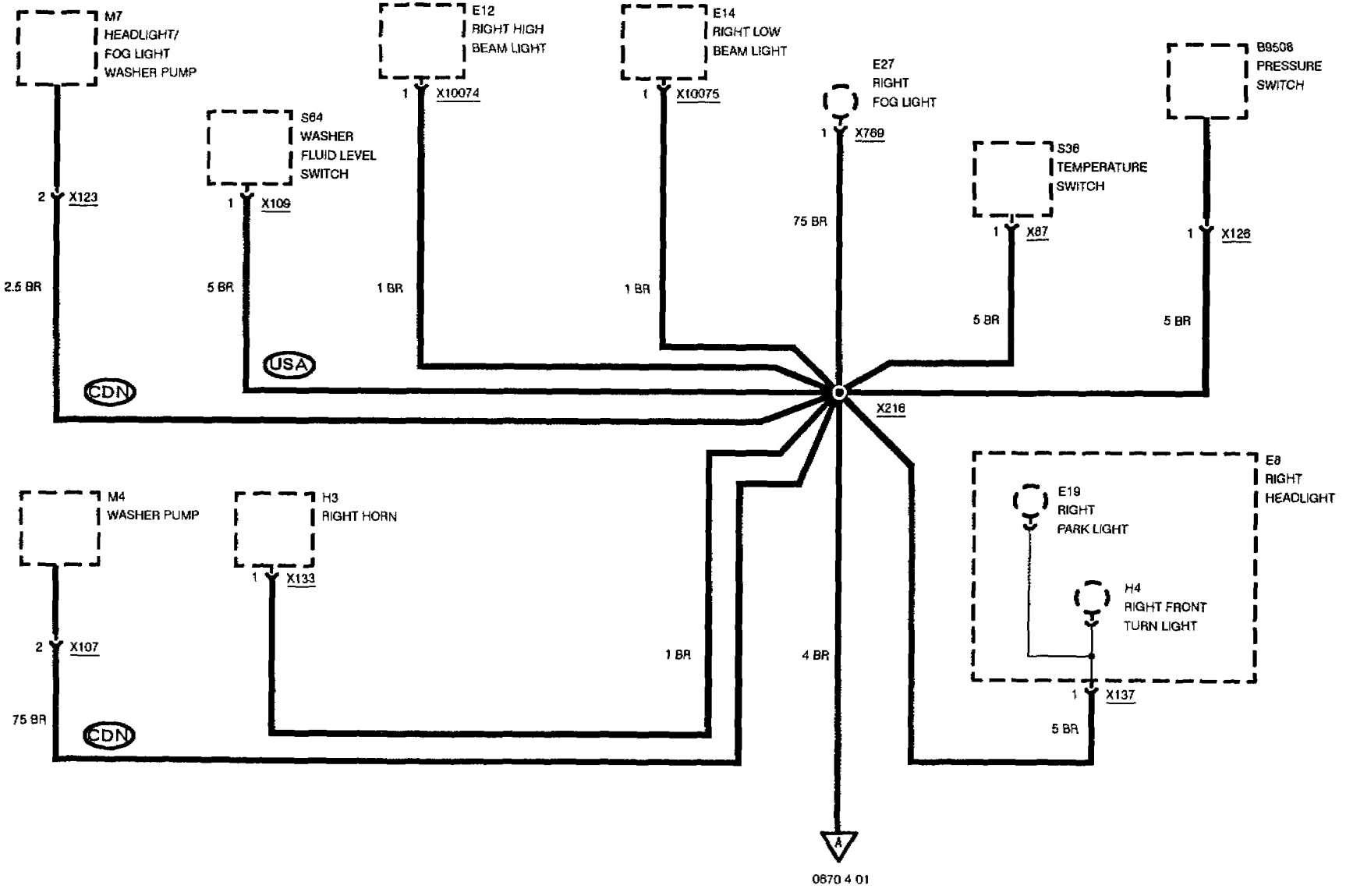
FUSE DETAILS

FUSE 46



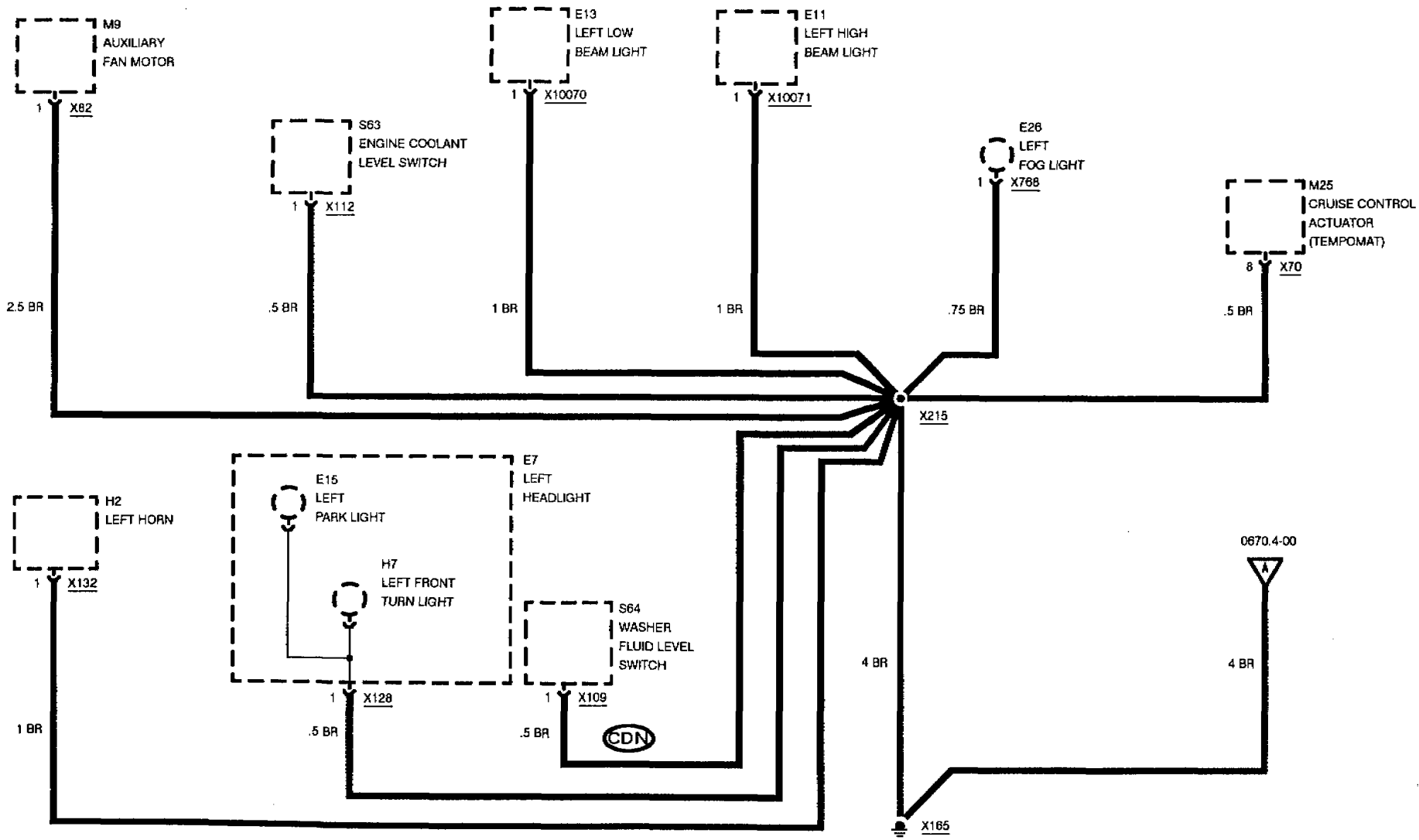
GROUND DISTRIBUTION

GROUND X165



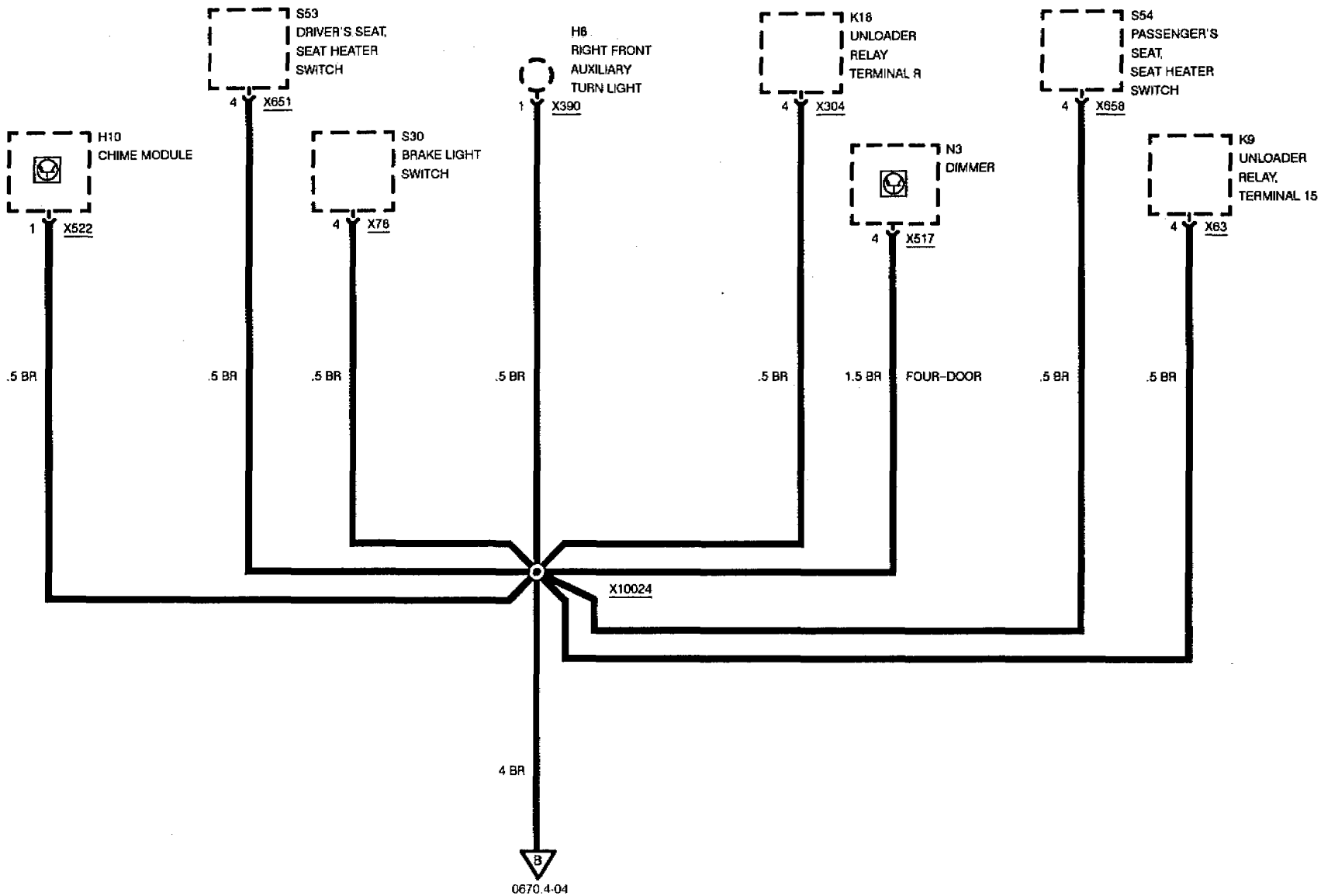
GROUND DISTRIBUTION

GROUND X165



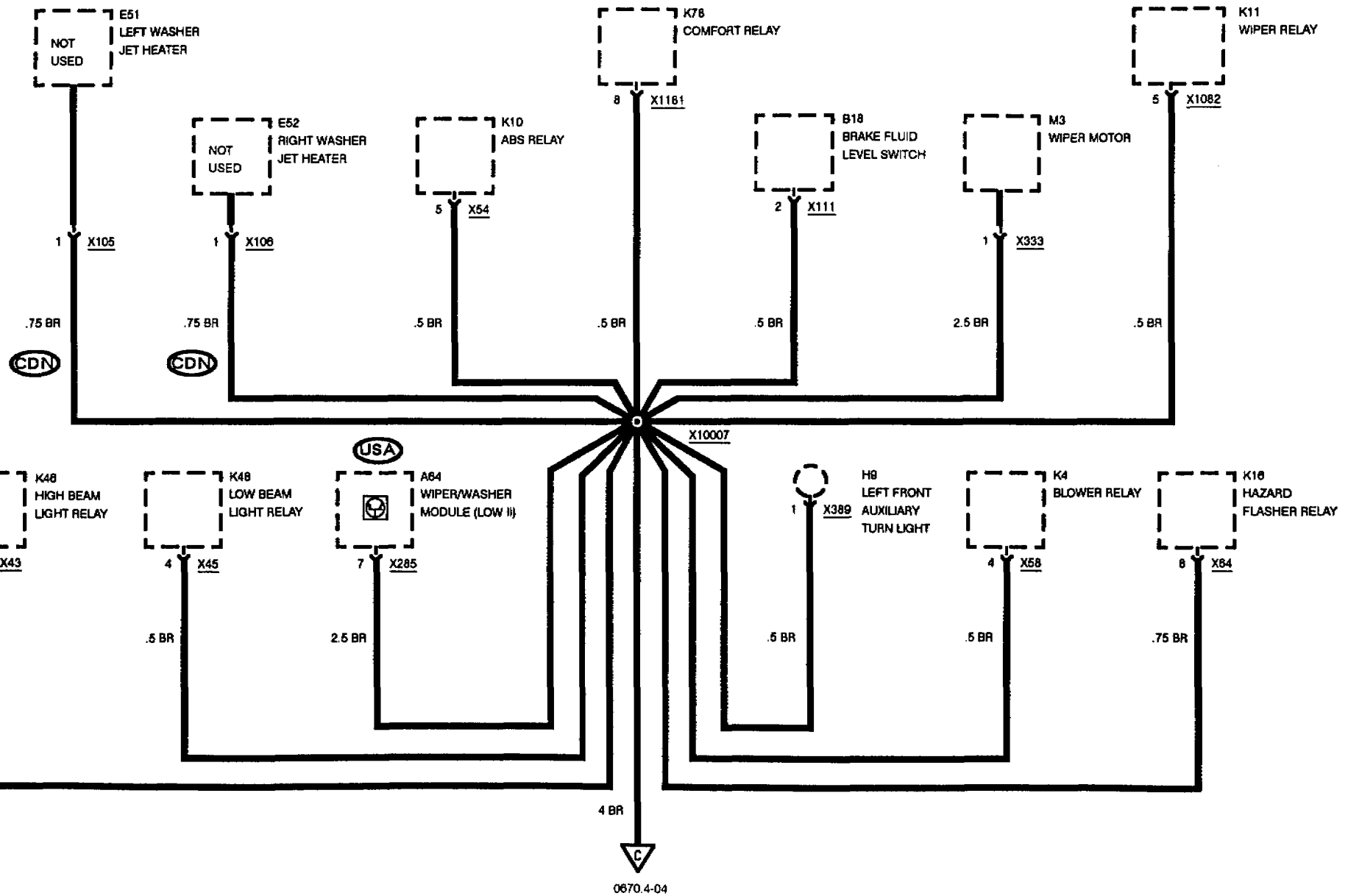
GROUND DISTRIBUTION

GROUND X173



GROUND DISTRIBUTION

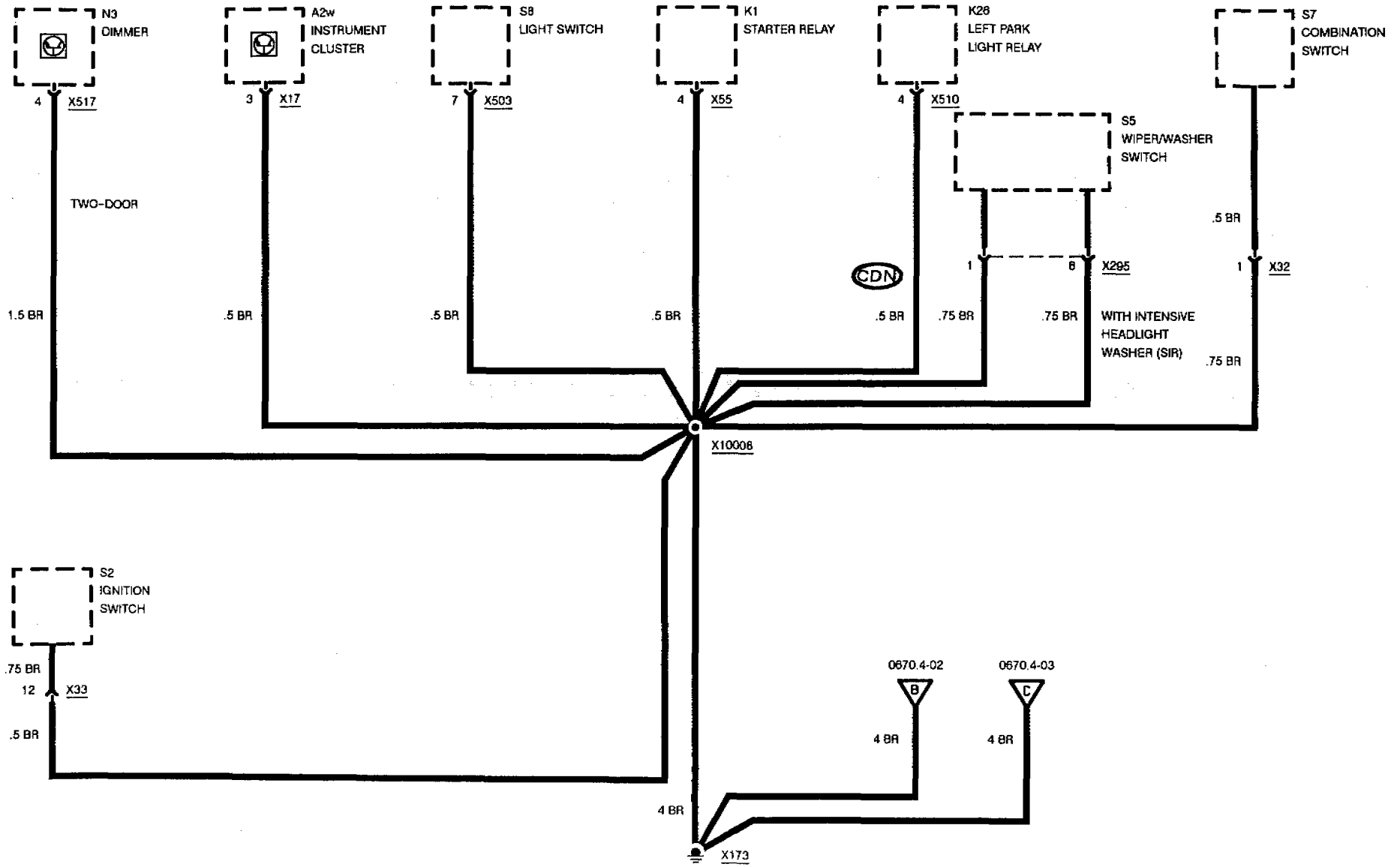
GROUND X173



BMW 3

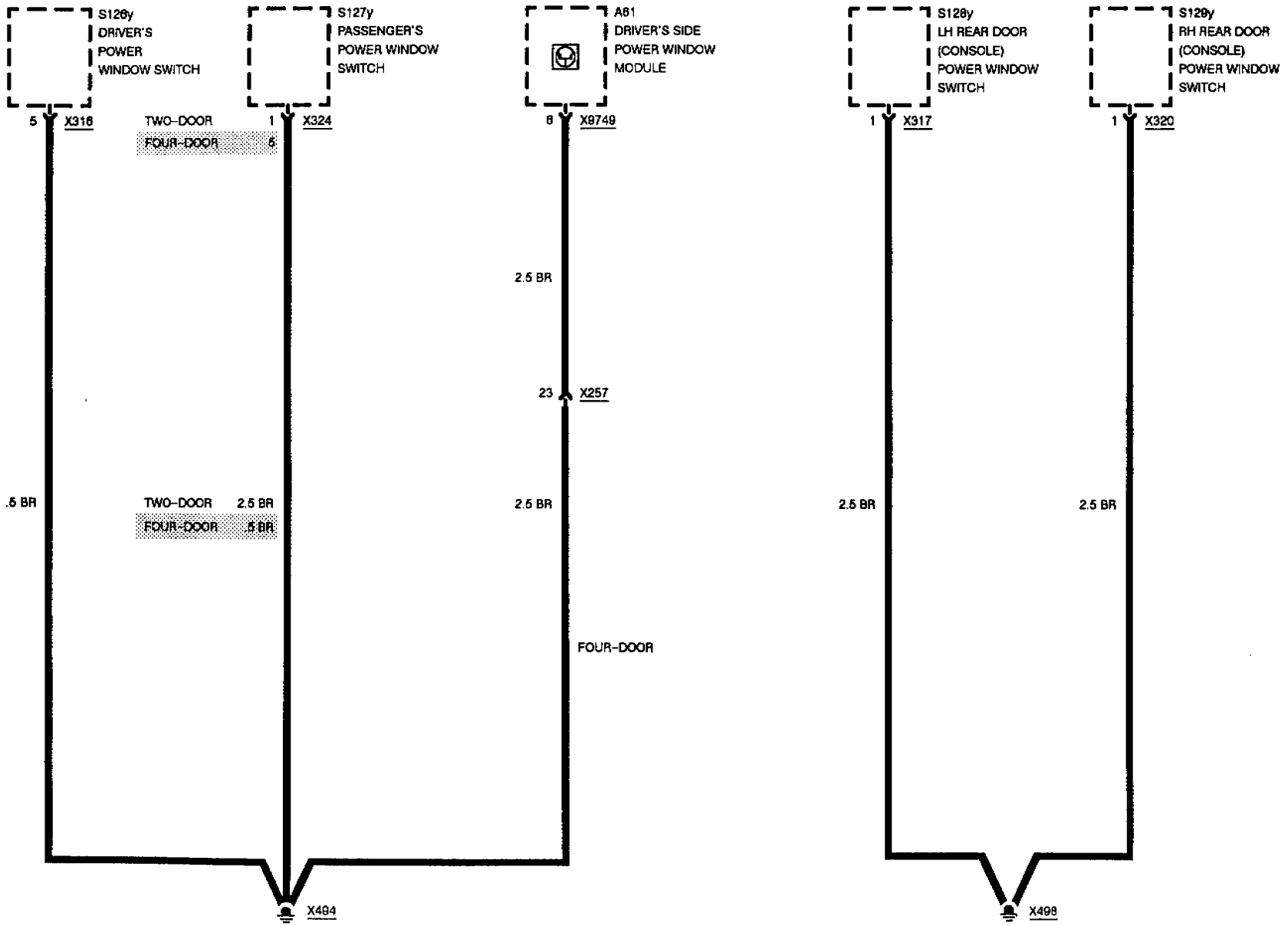
GROUND DISTRIBUTION

GROUND X173



GROUND DISTRIBUTION

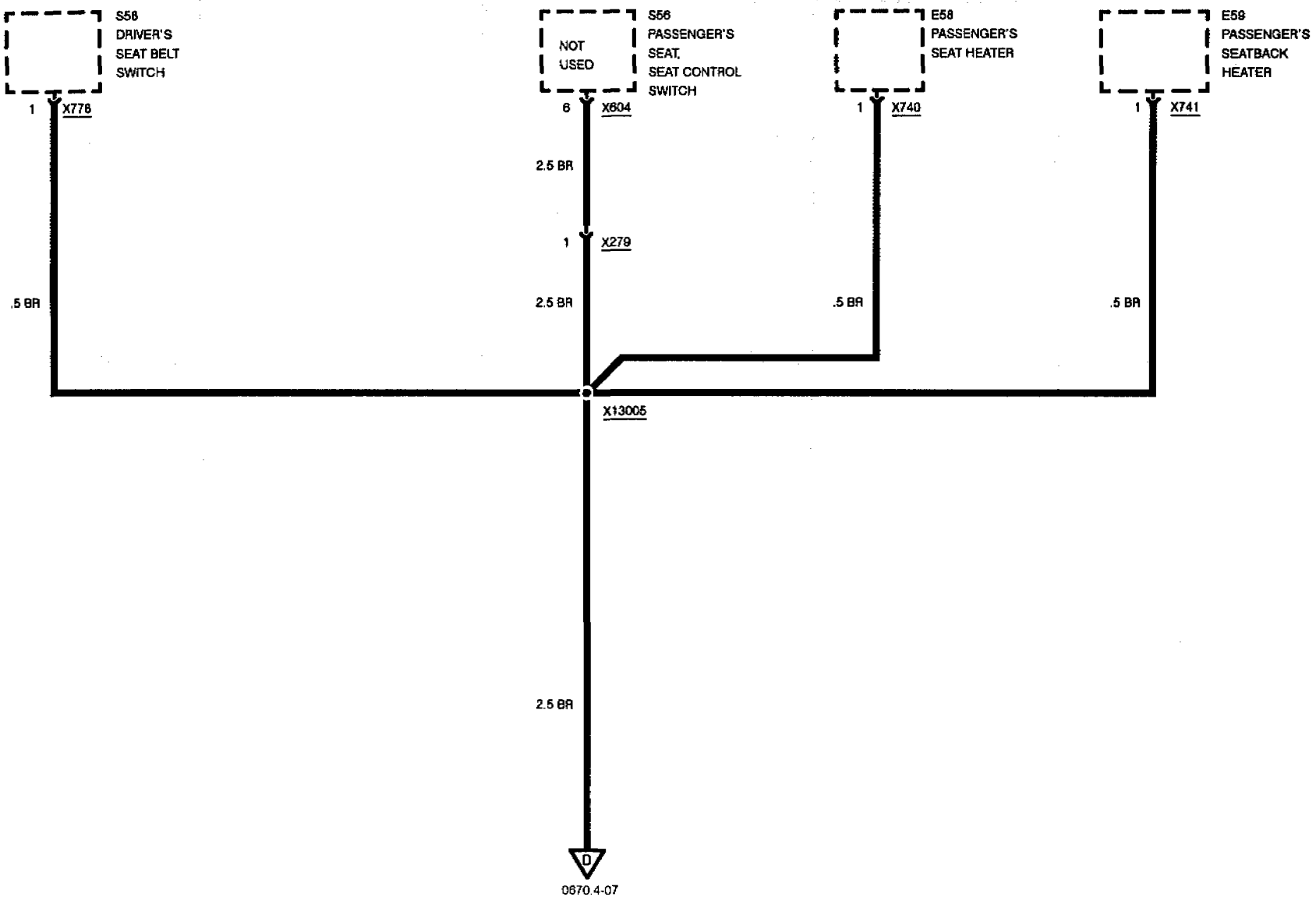
GROUNDS X494 AND X498



GROUND DISTRIBUTION

GROUND X495

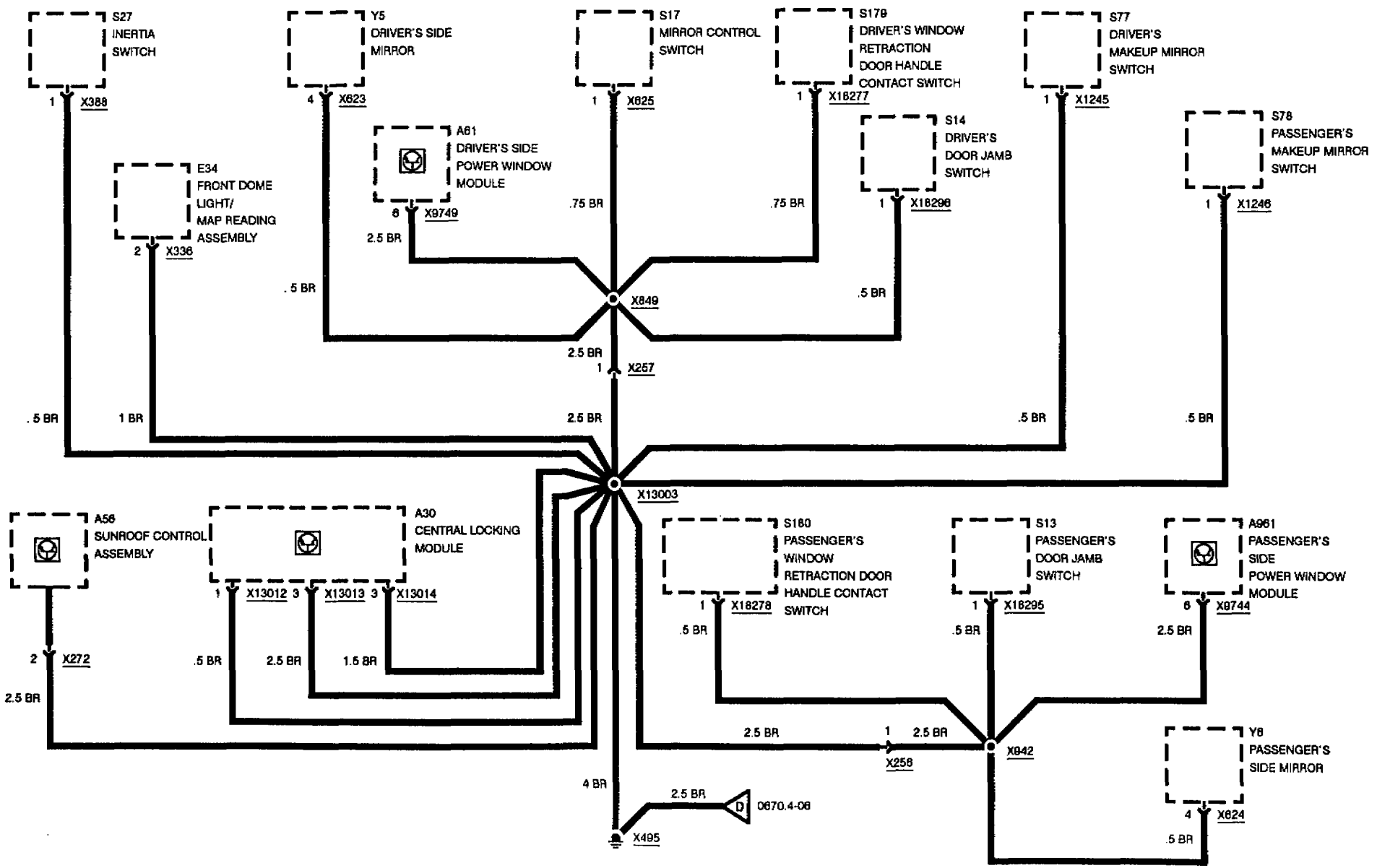
TWO-DOOR



GROUND DISTRIBUTION

TWO-DOOR

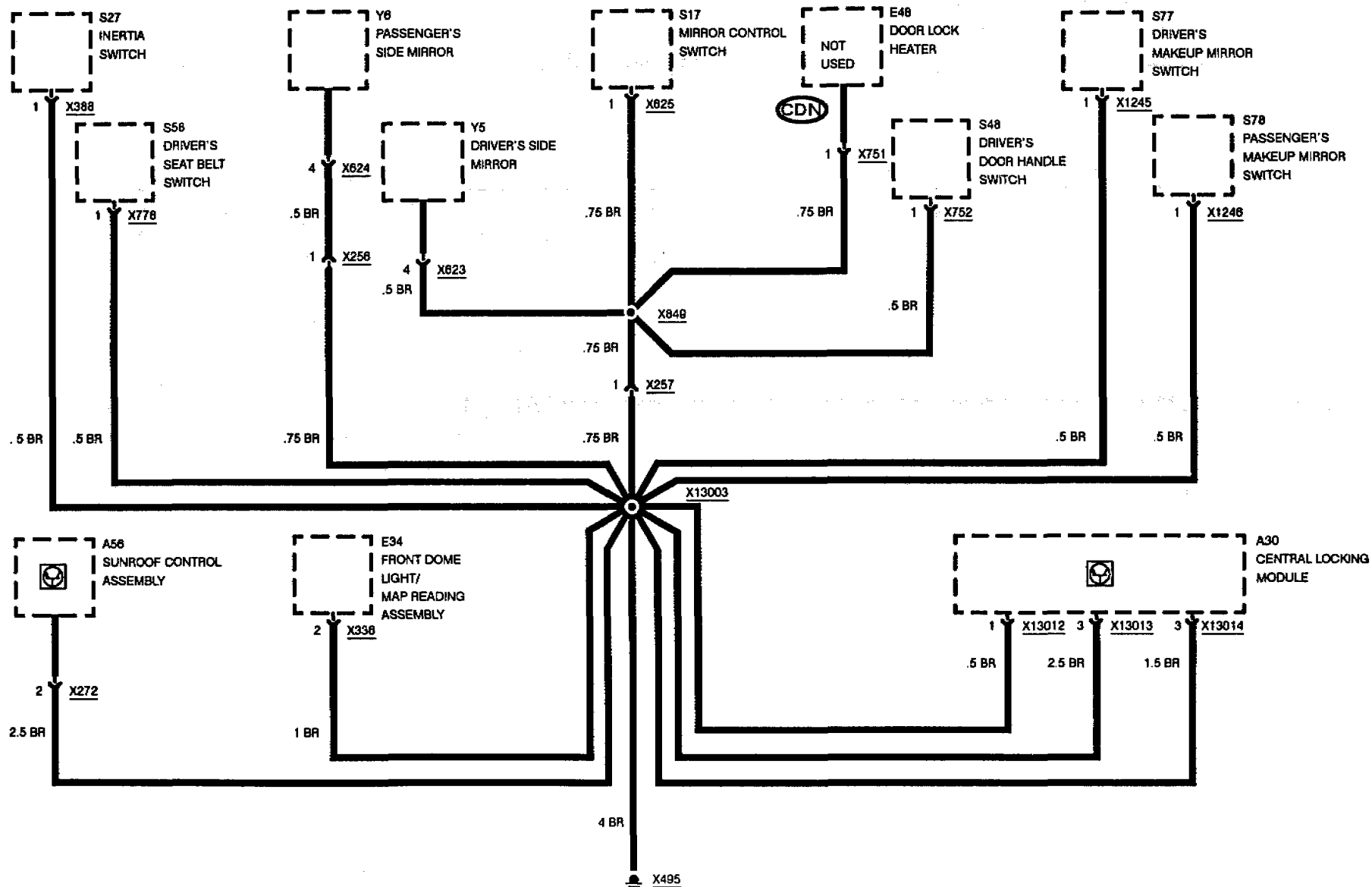
GROUND X495



GROUND DISTRIBUTION

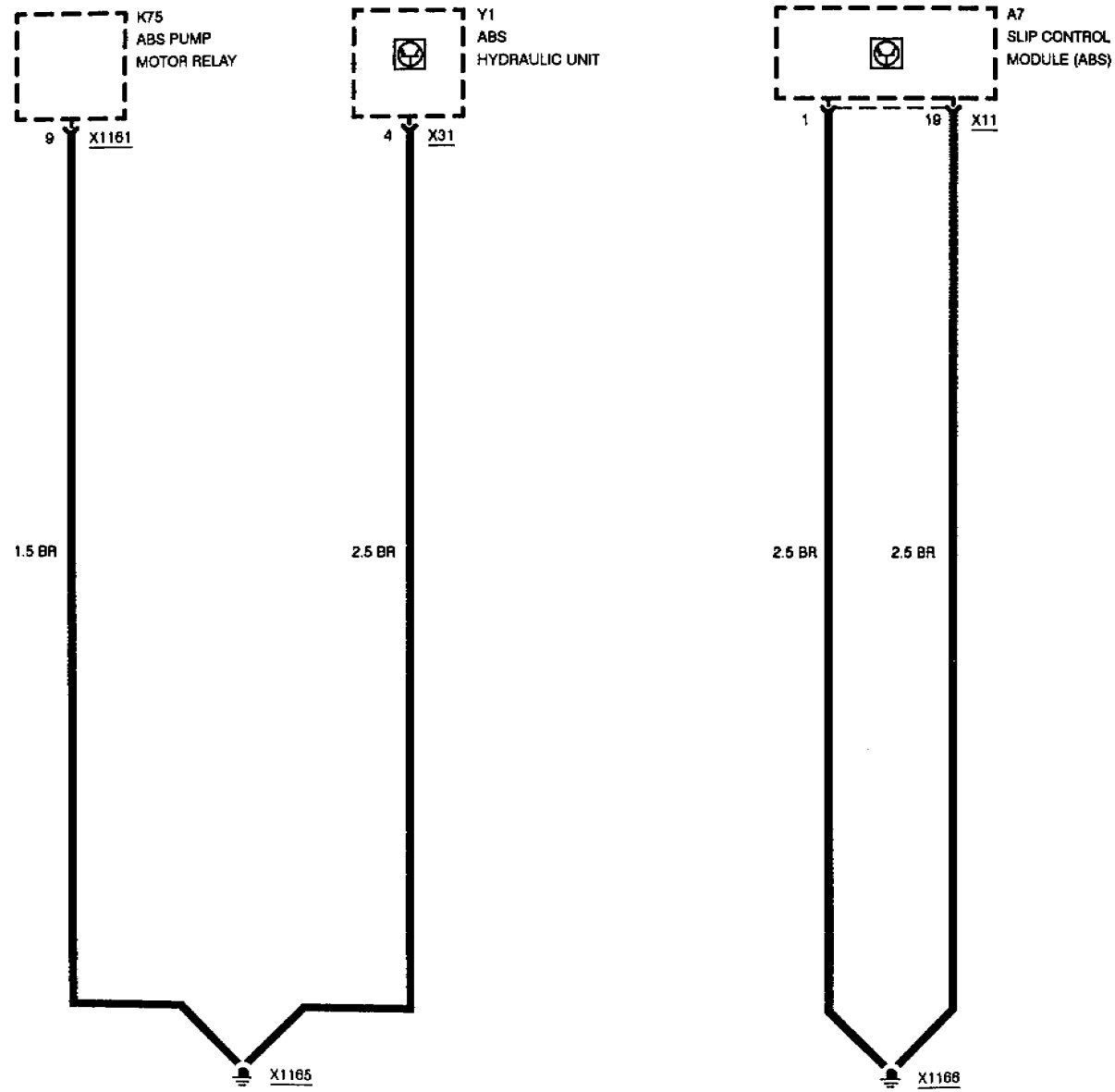
FOUR-DOOR

GROUND X495

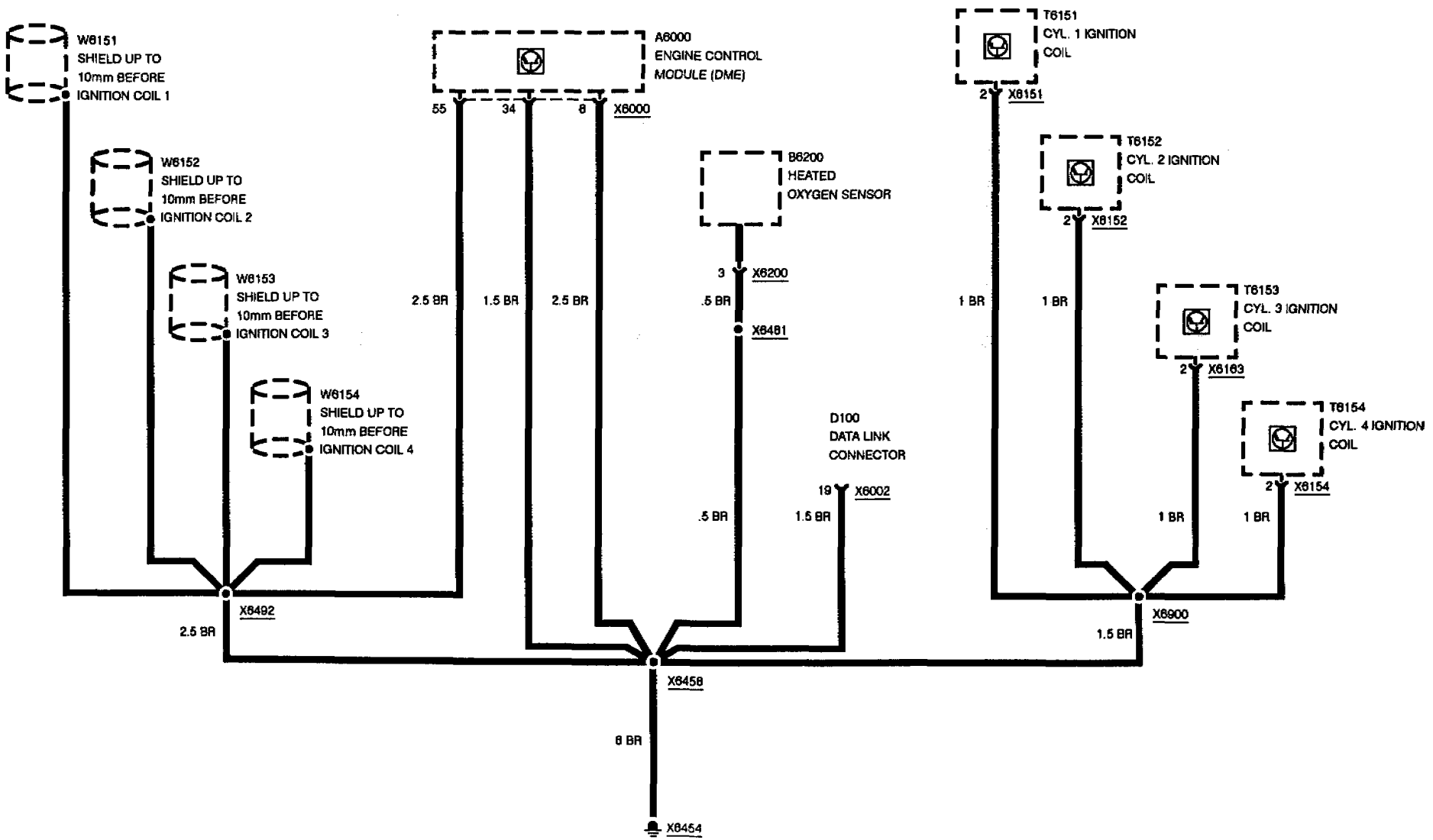


GROUND DISTRIBUTION

GROUNDS X1165 AND X1166

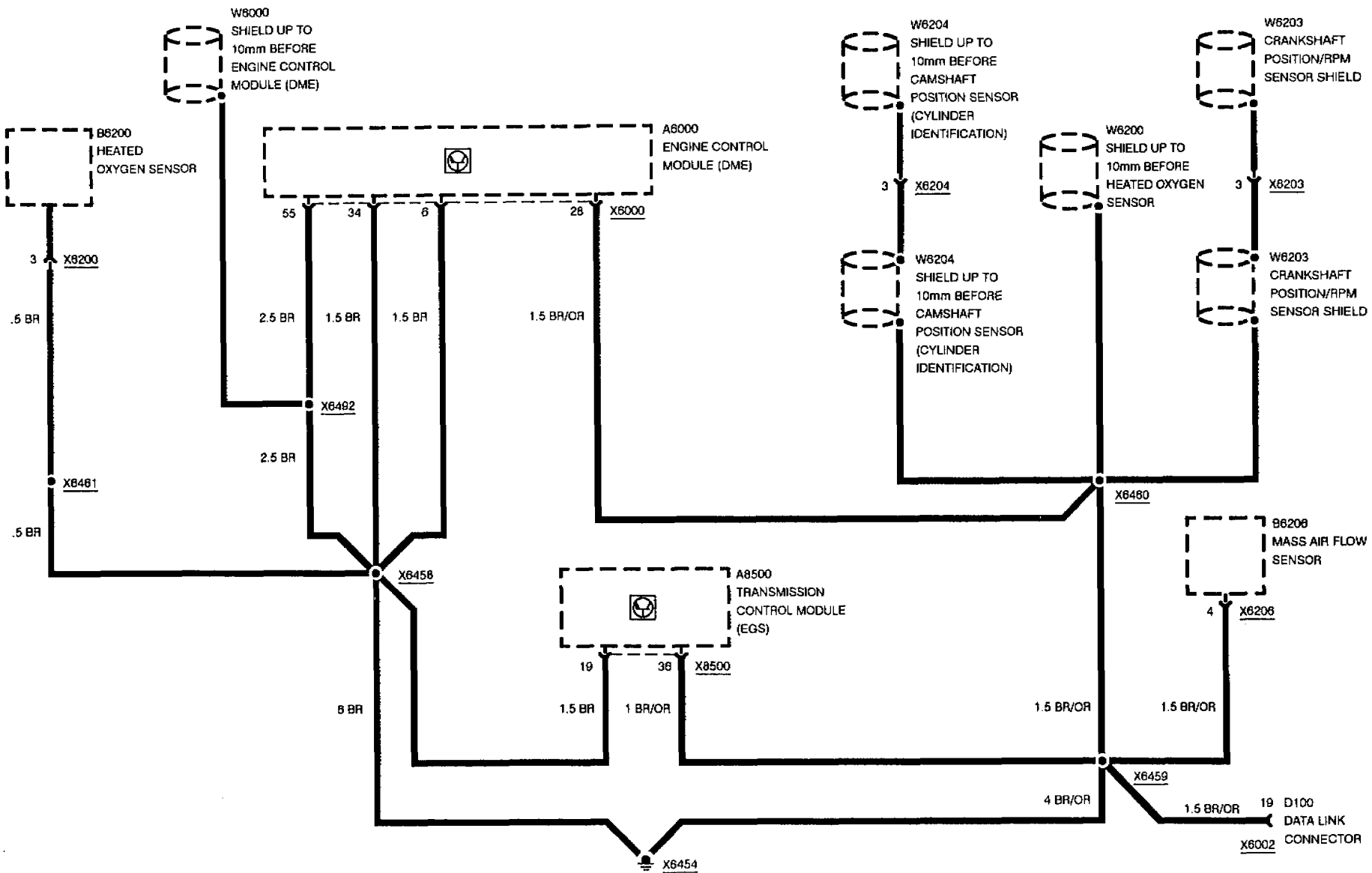


GROUND X6454



GROUND DISTRIBUTION

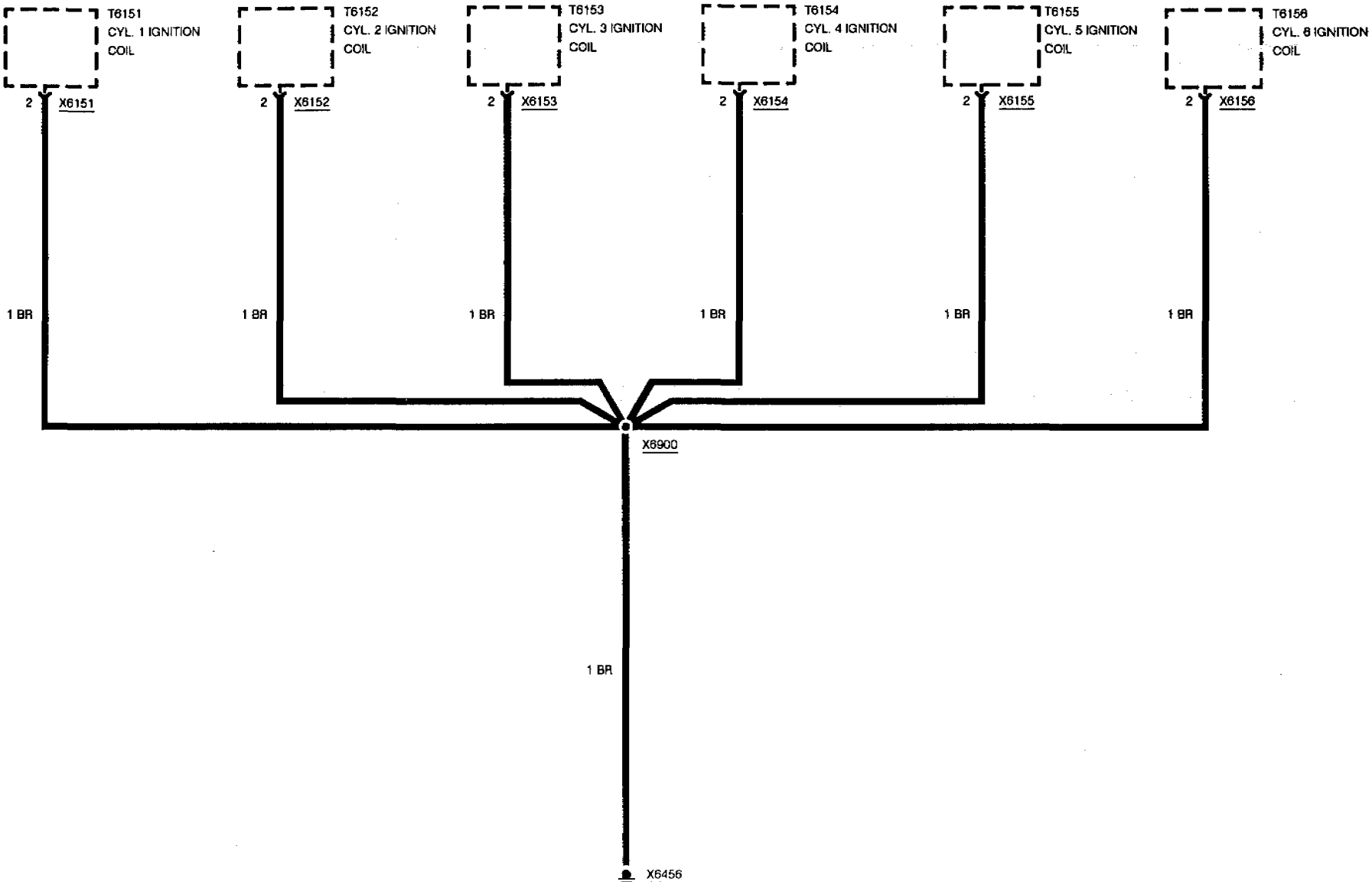
GROUND X6454



GROUND DISTRIBUTION

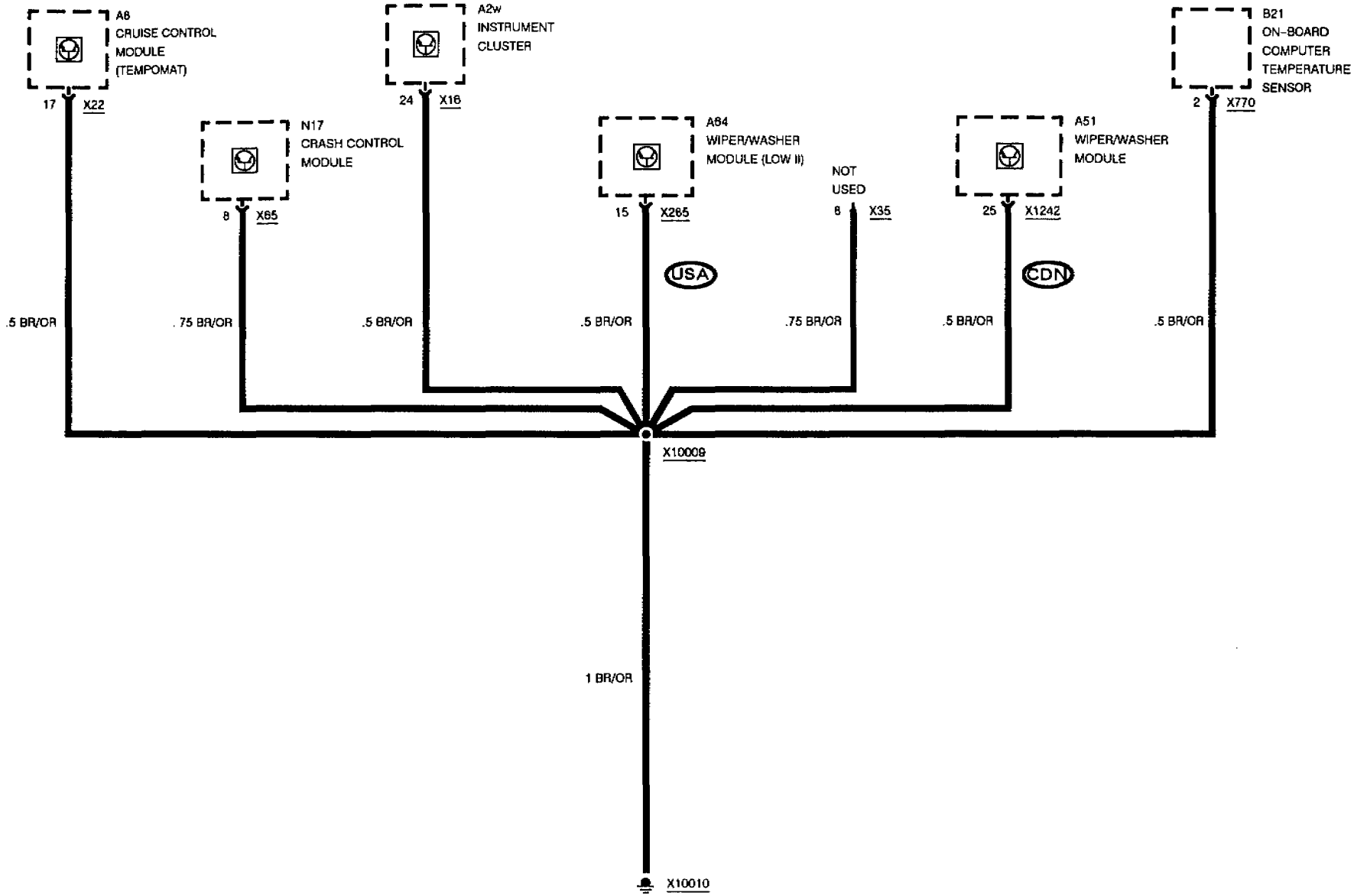
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GROUND X6456



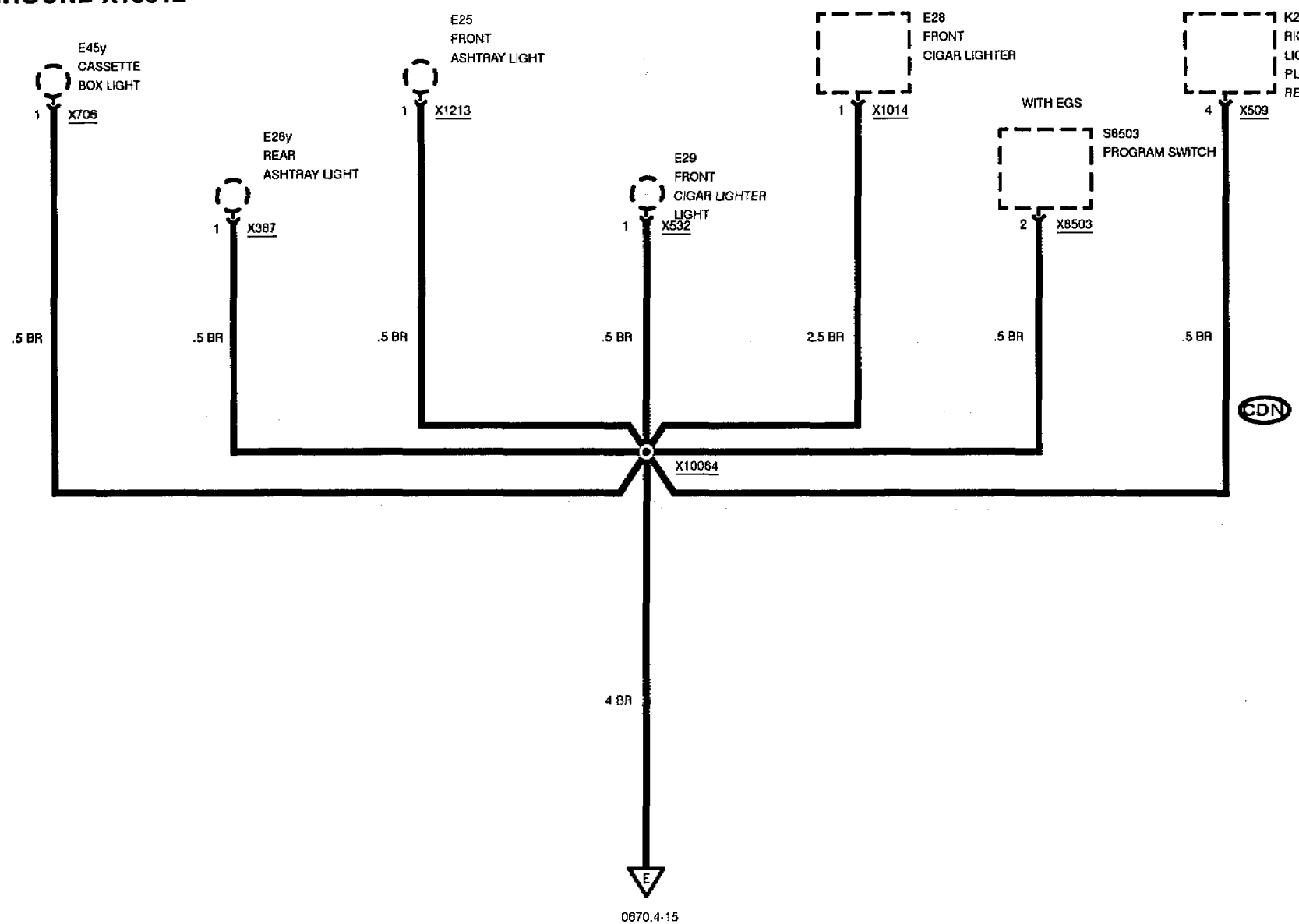
GROUND DISTRIBUTION

GROUND X10010



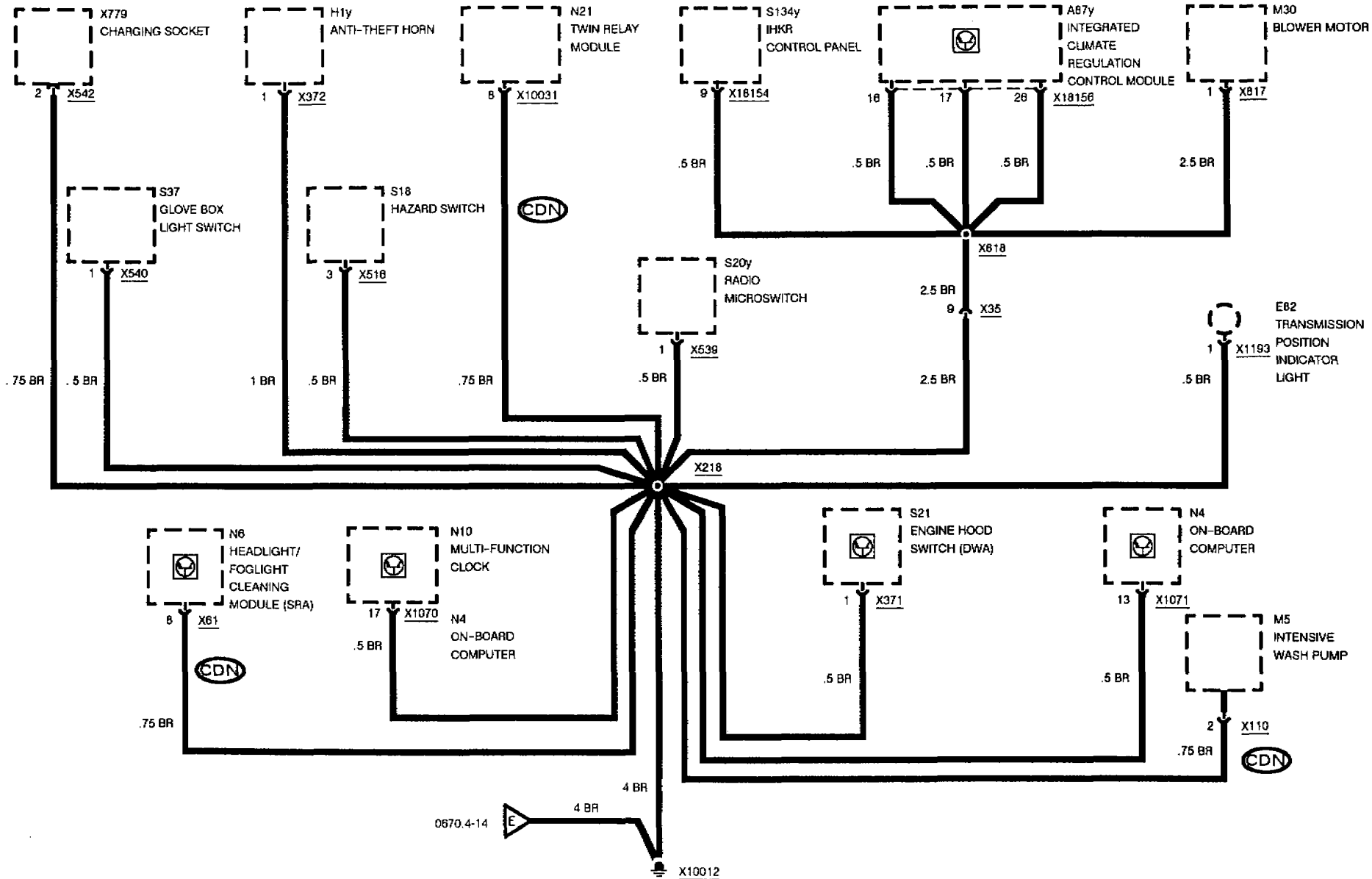
GROUND DISTRIBUTION

GROUND X10012



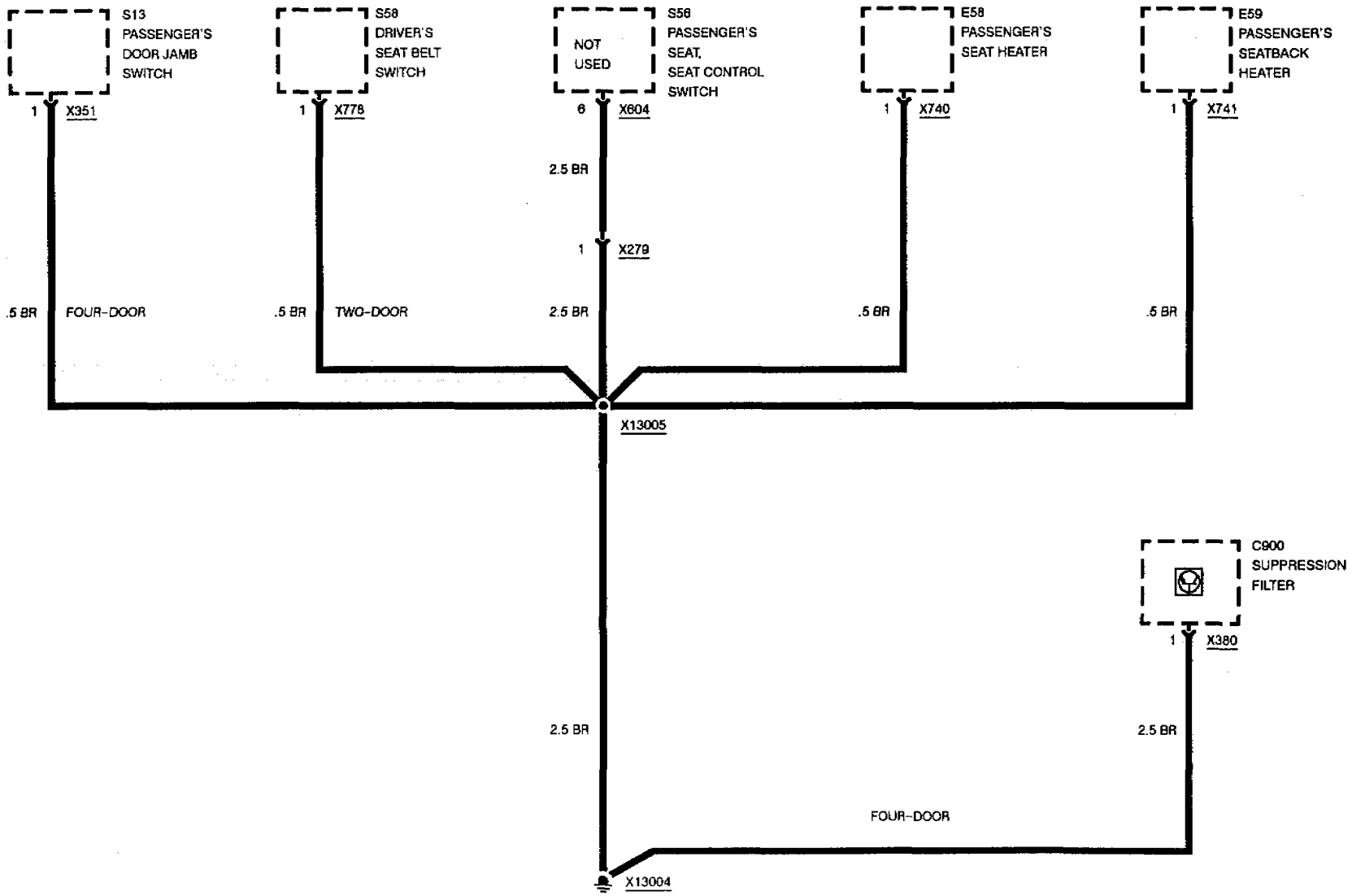
GROUND DISTRIBUTION

GROUND X10012



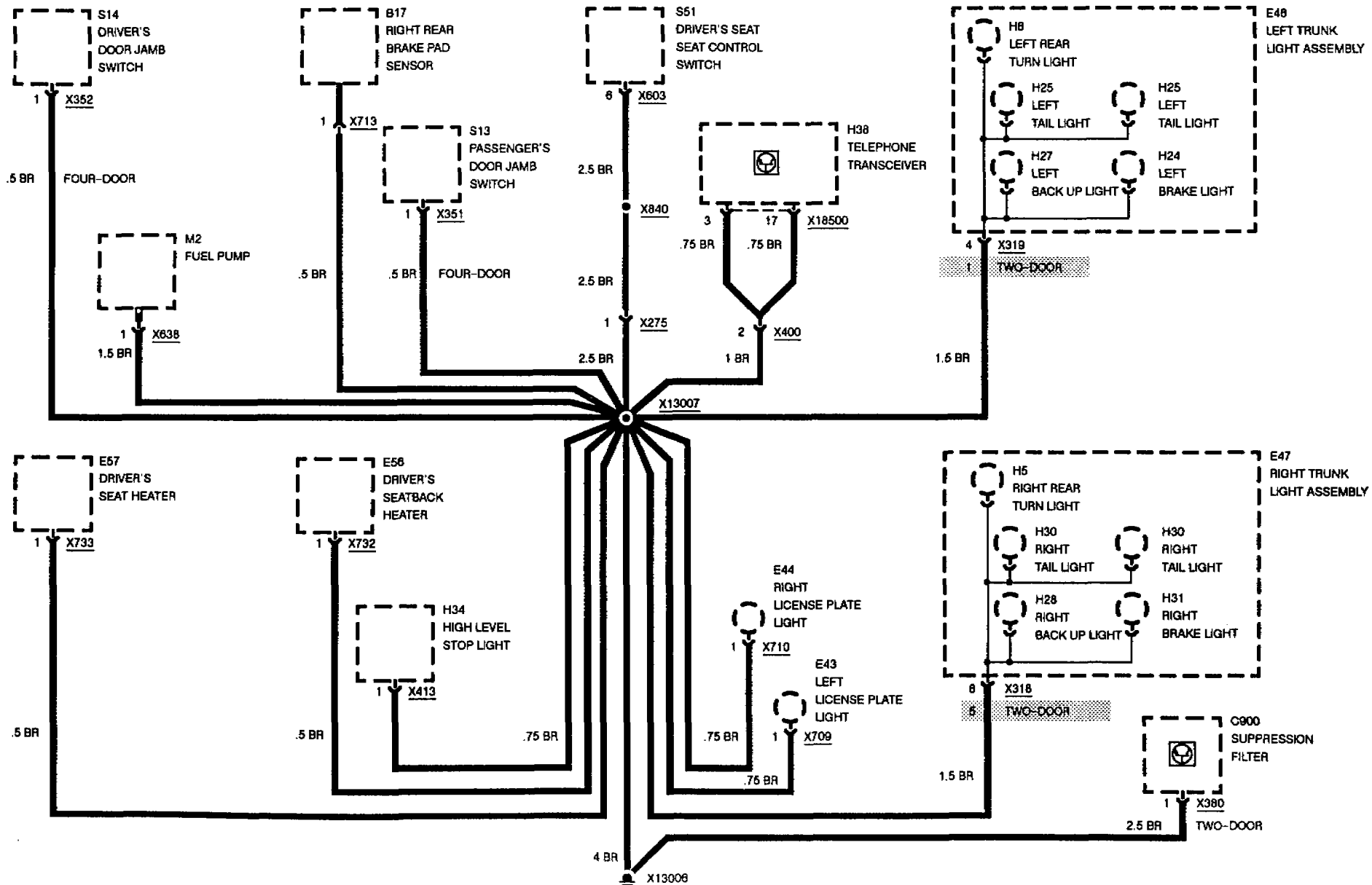
GROUND DISTRIBUTION

GROUND X13004



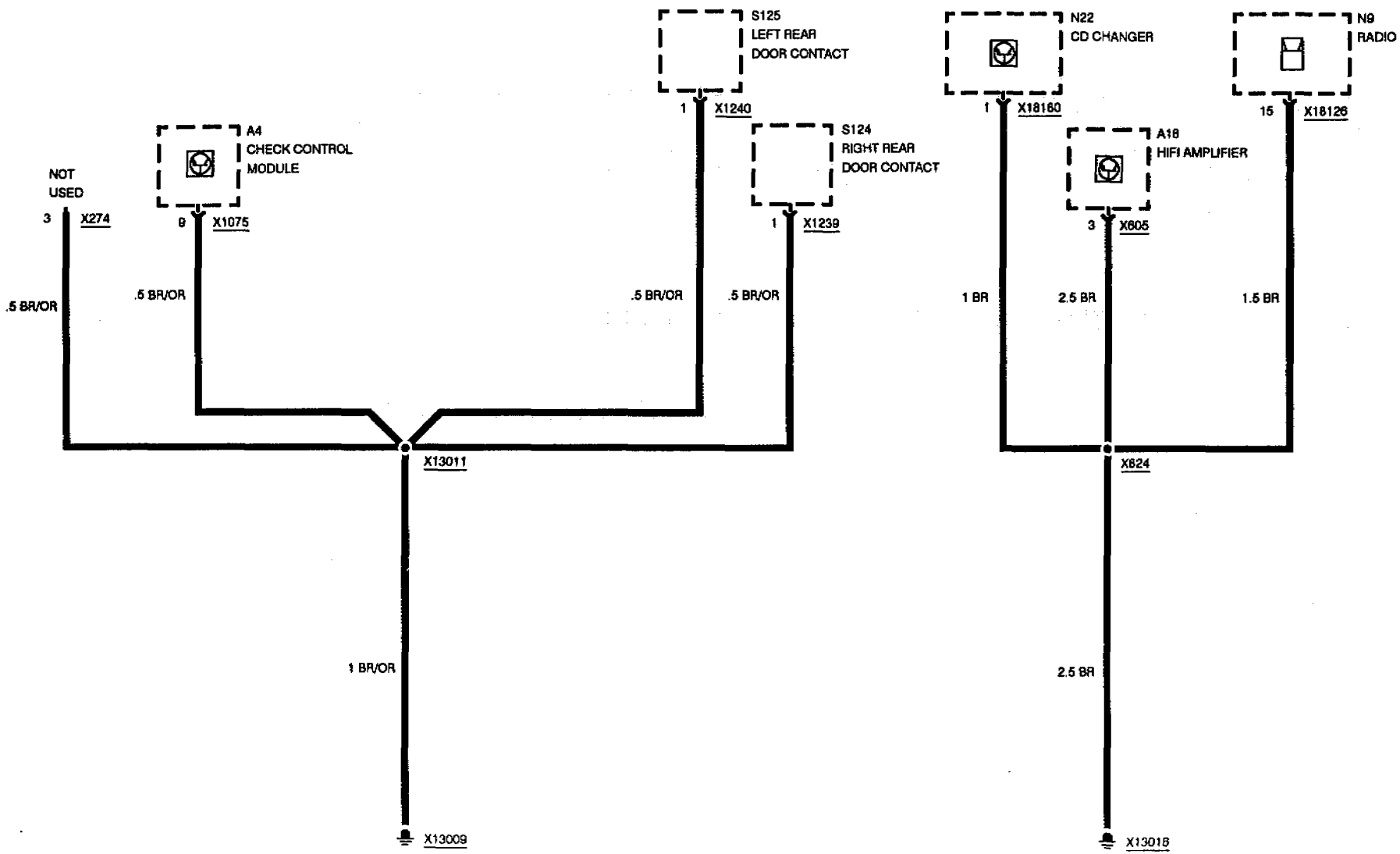
GROUND DISTRIBUTION

GROUND X13006



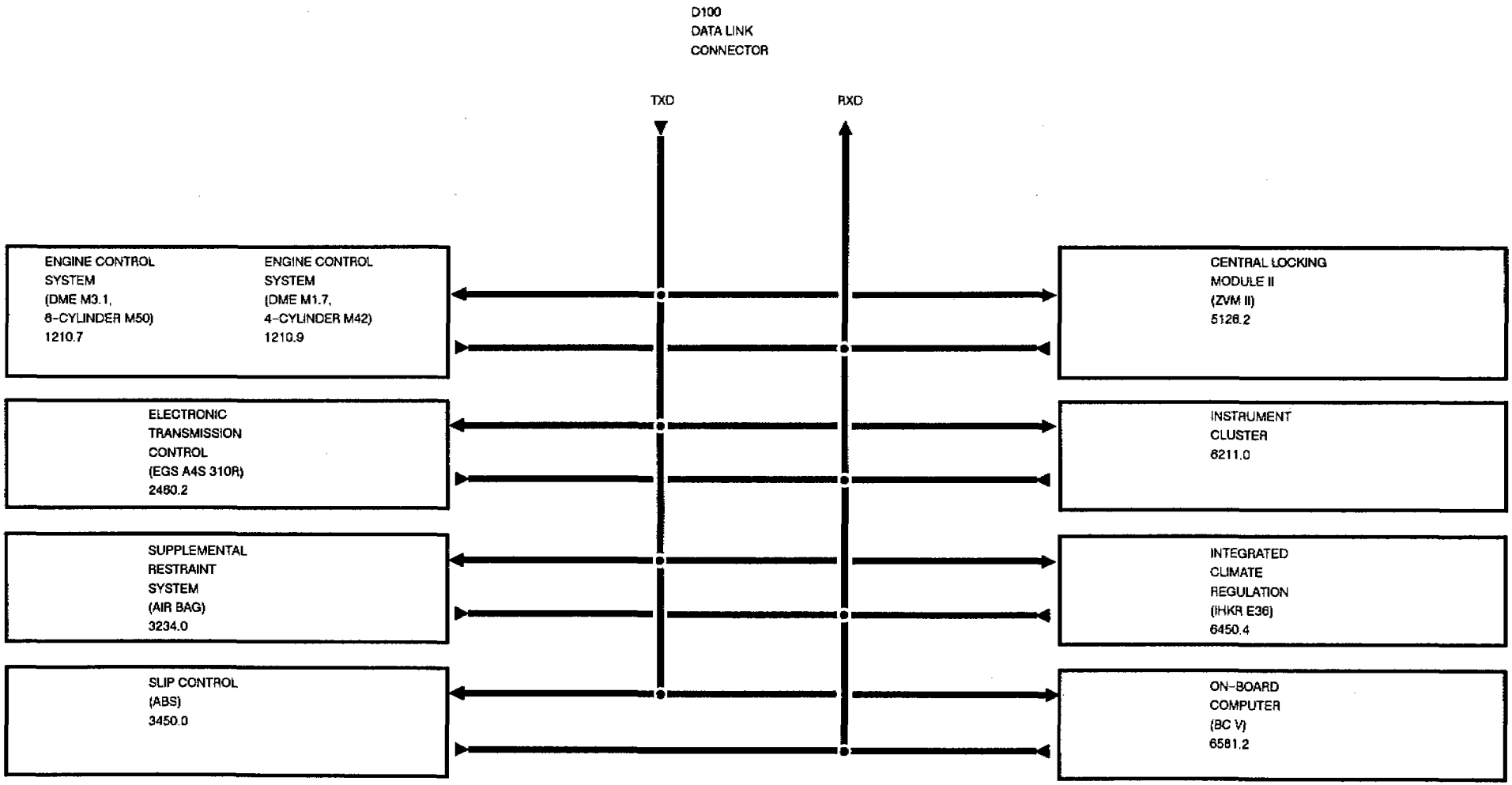
GROUND DISTRIBUTION

GROUNDS X13009 AND X13016



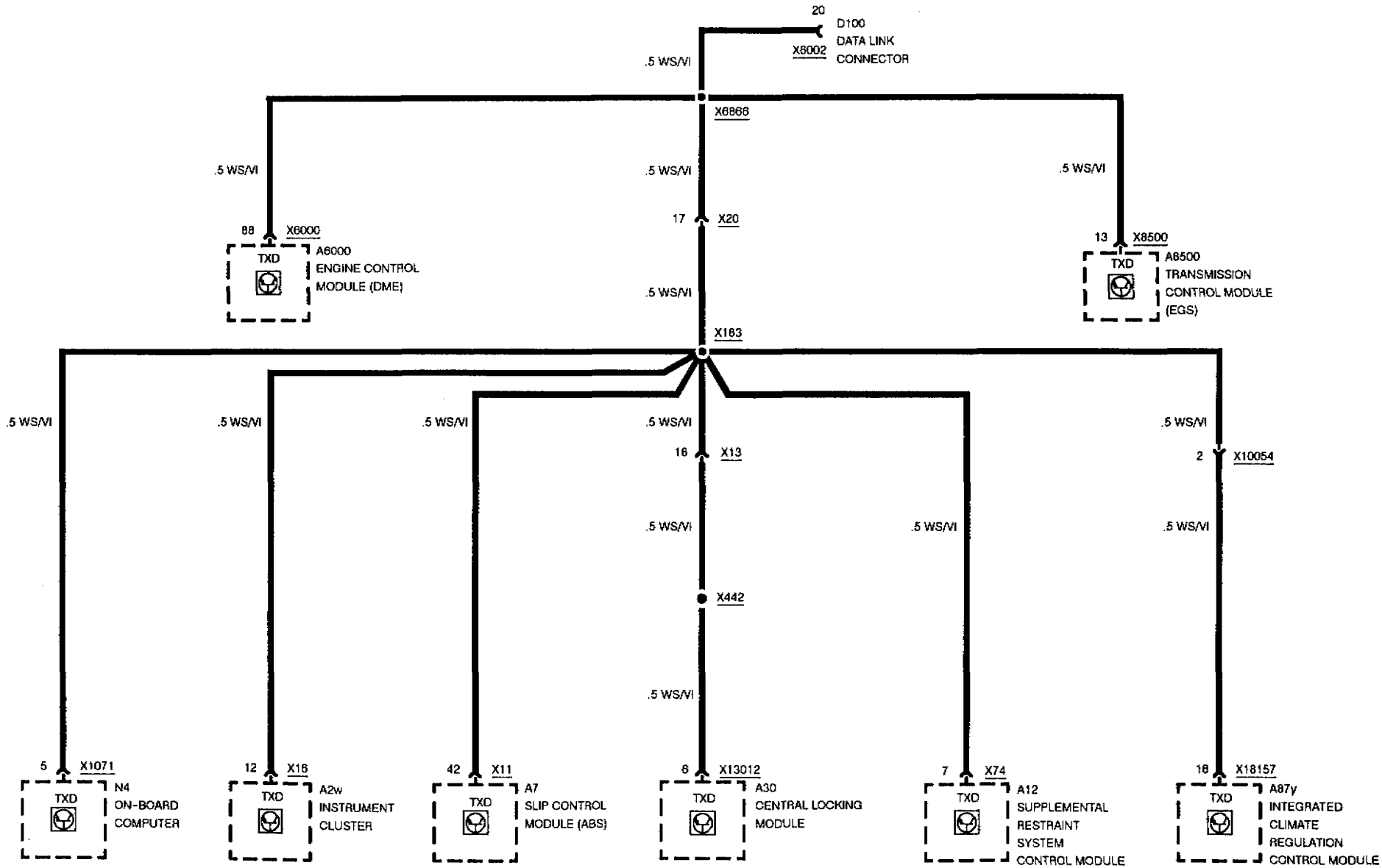
DATA LINK

BLOCK DIAGRAM



DATA LINK

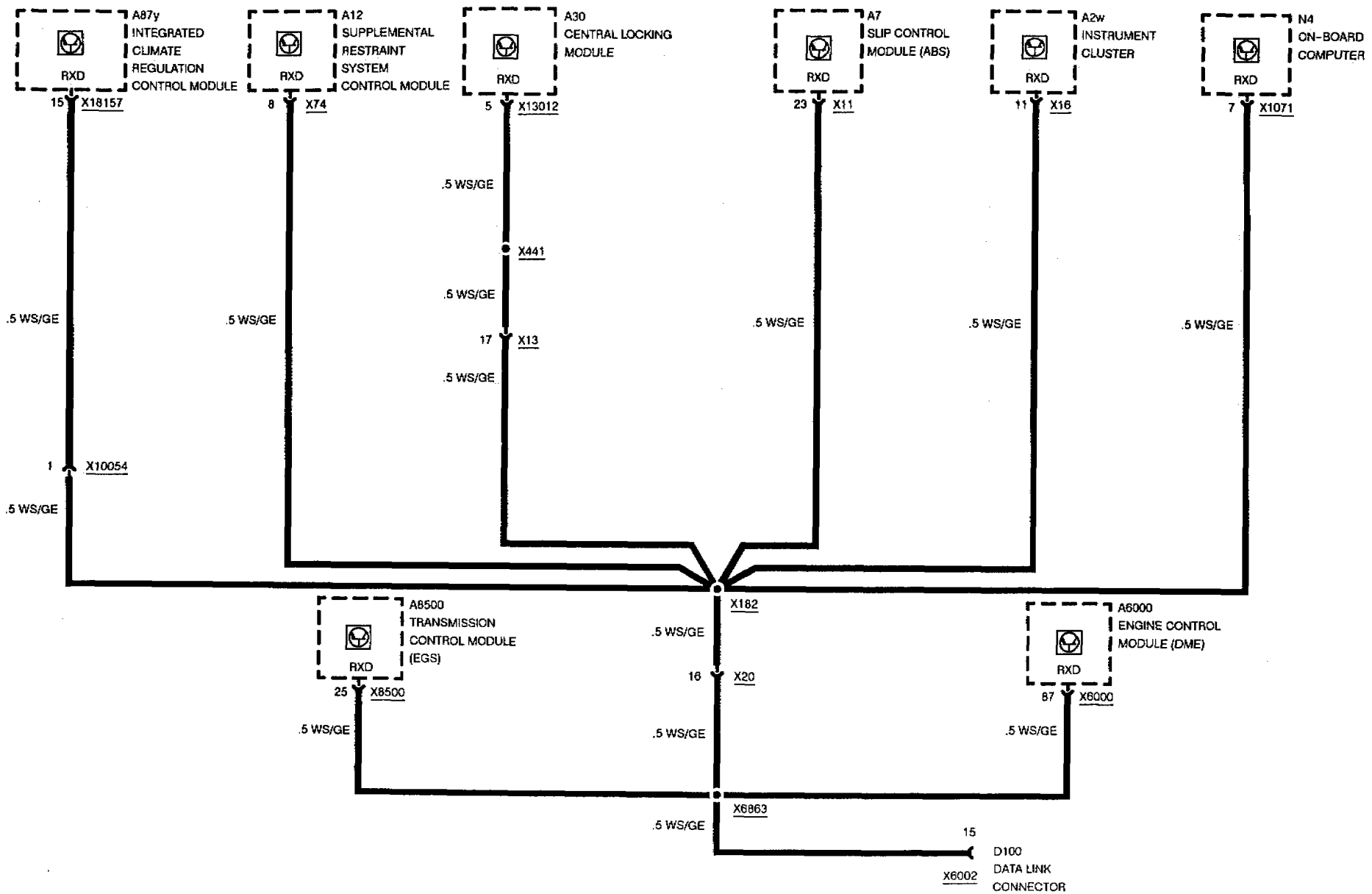
TXD, PIN 20



BMW 3

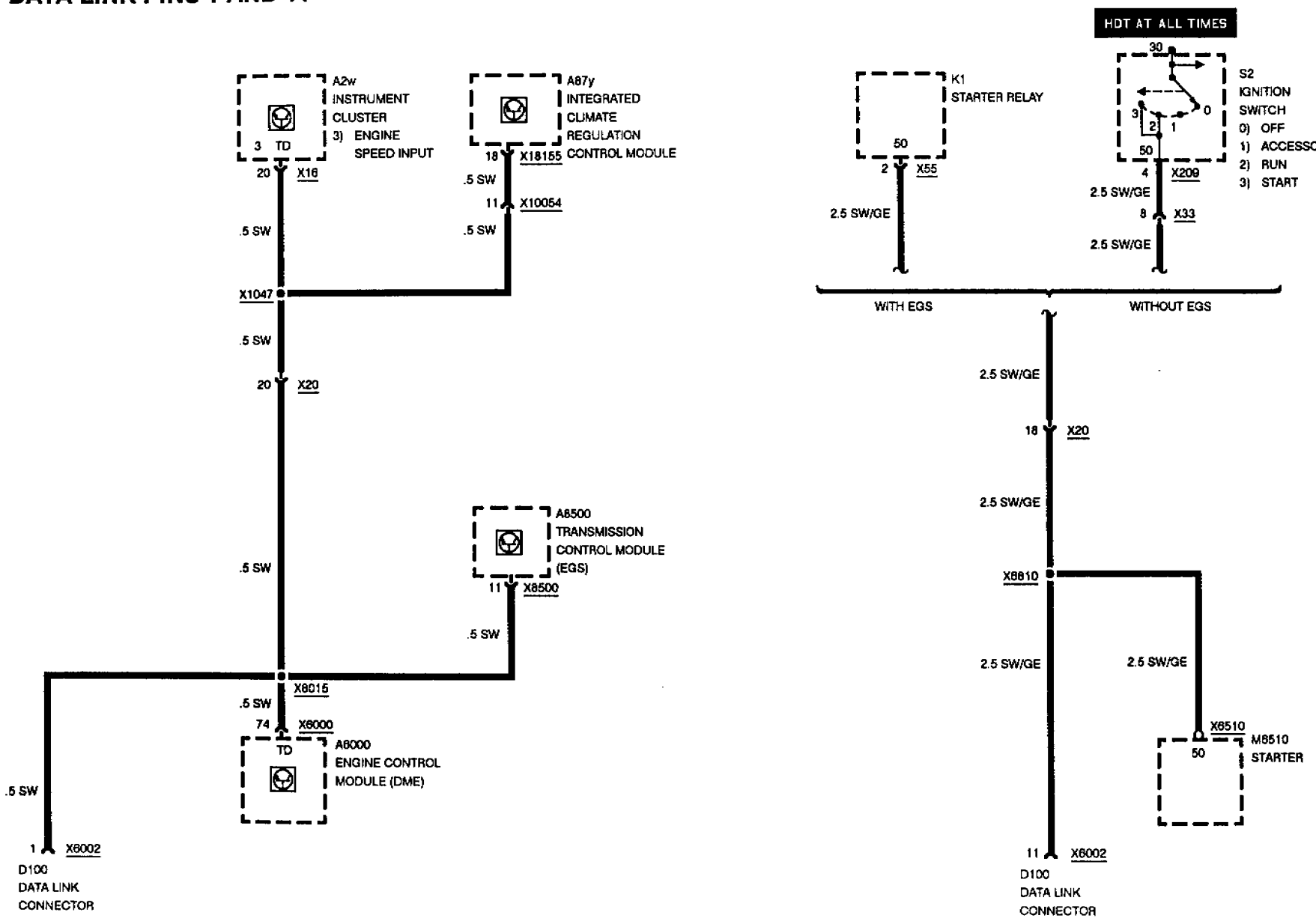
DATA LINK

RXD, PIN 15



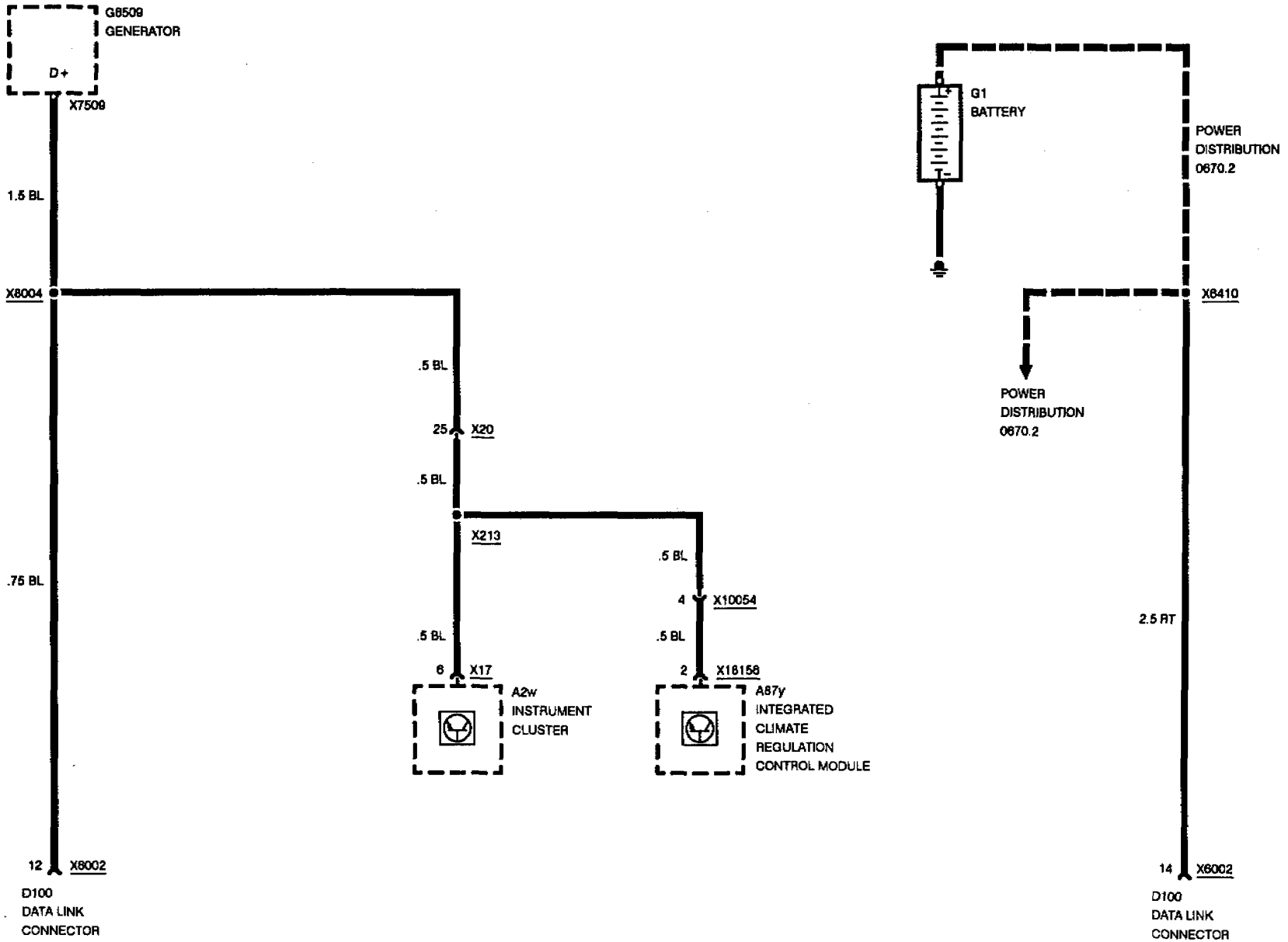
DATA LINK

DATA LINK PINS 1 AND 11



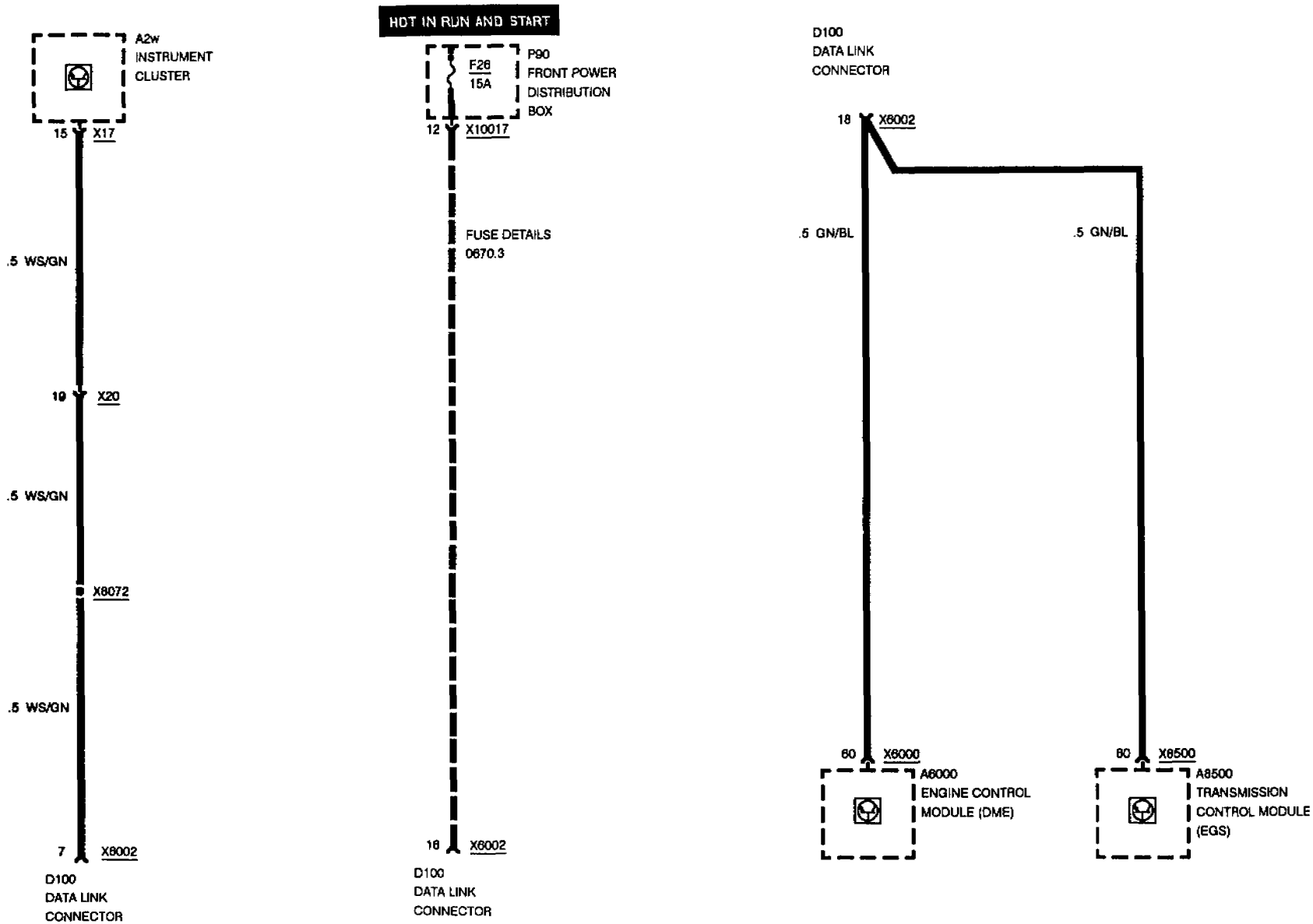
DATA LINK

DATA LINK PINS 12 AND 14

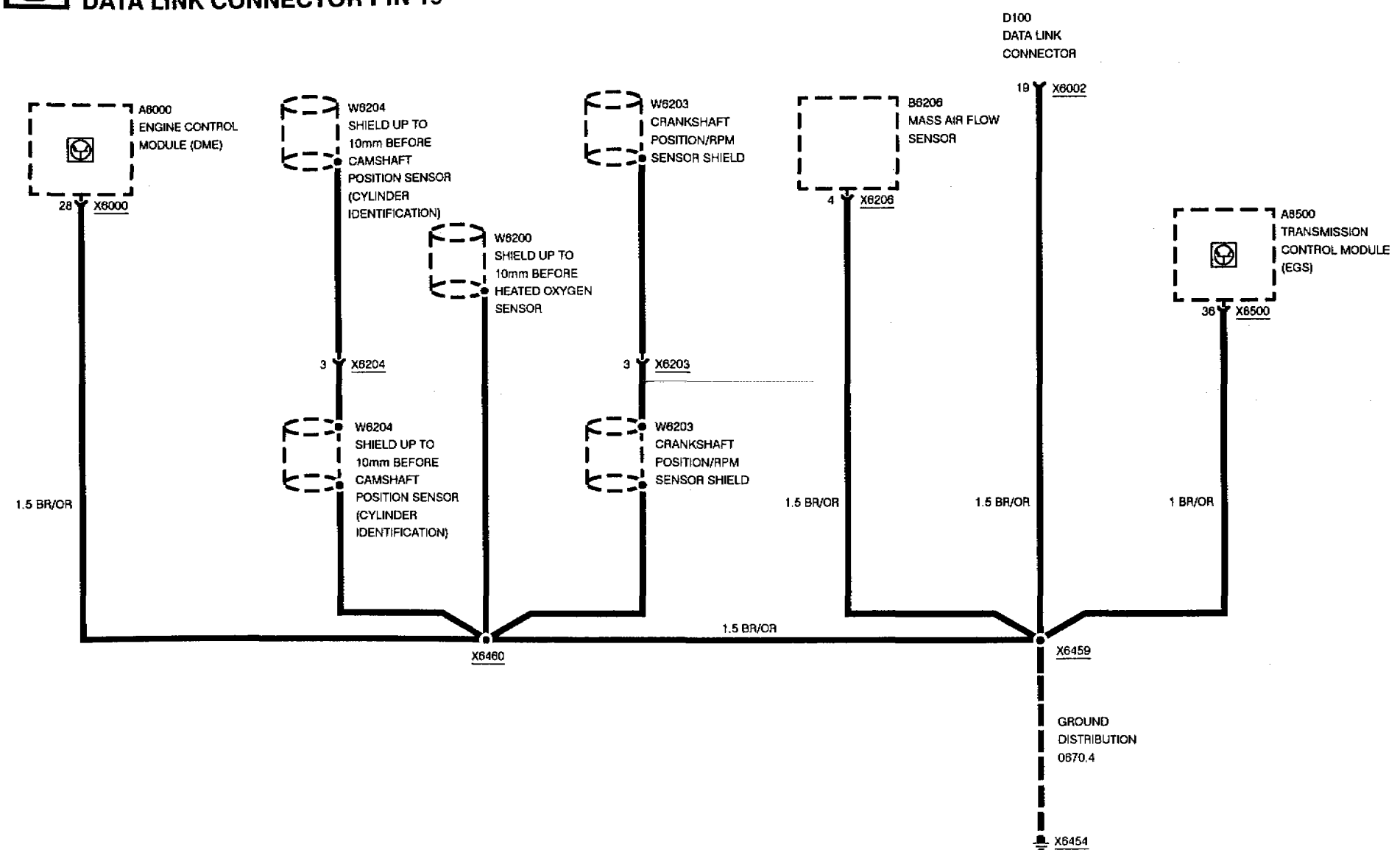


DATA LINK

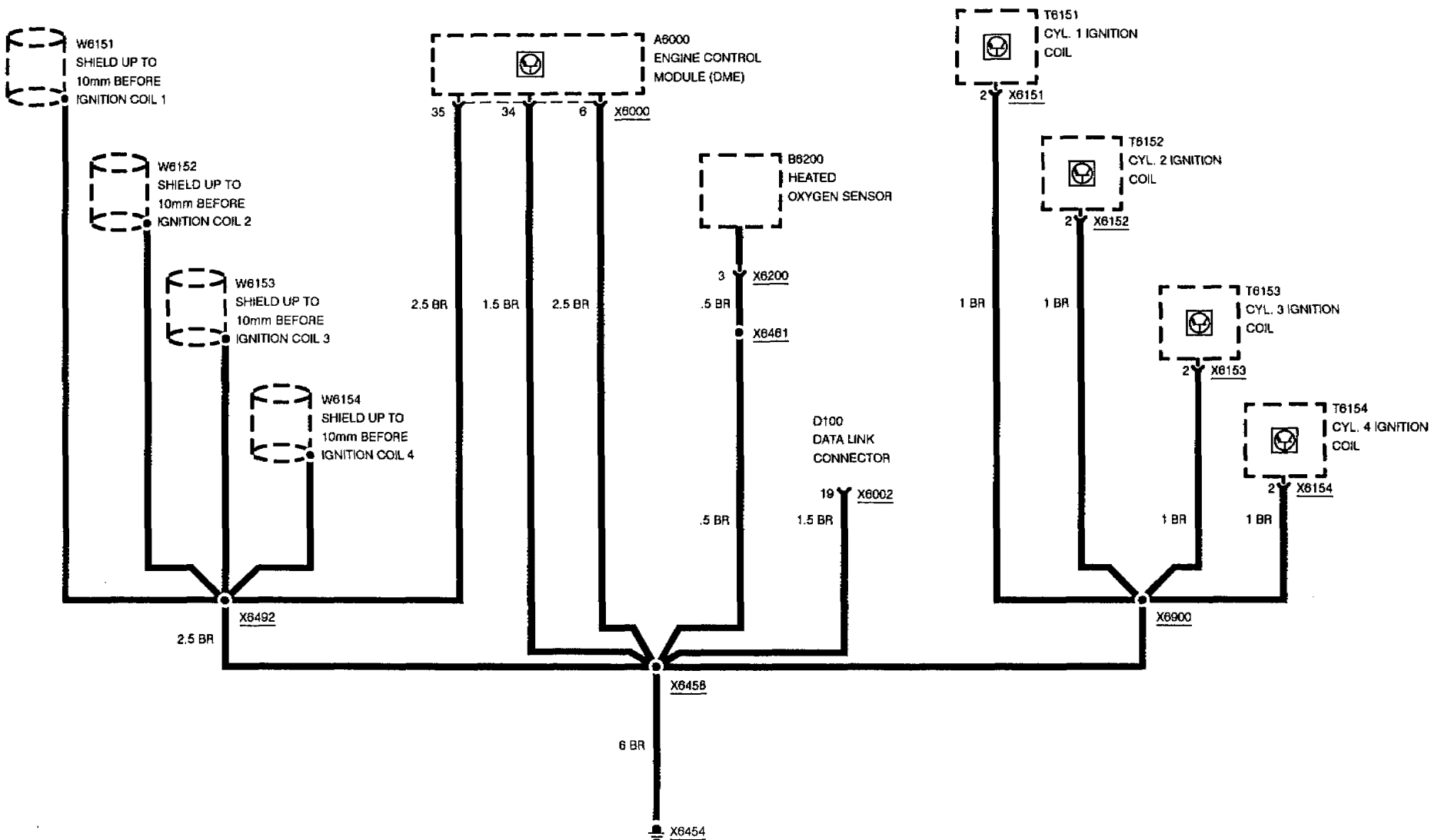
DATA LINK PINS 7, 16, AND 18



DATA LINK CONNECTOR PIN 19

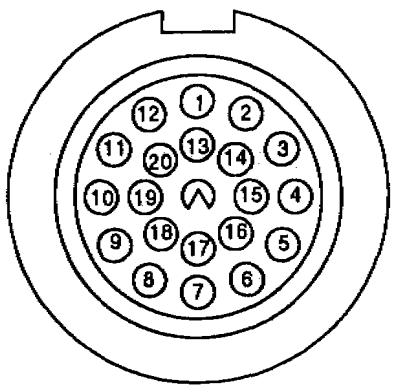


DATA LINK CONNECTOR PIN 19



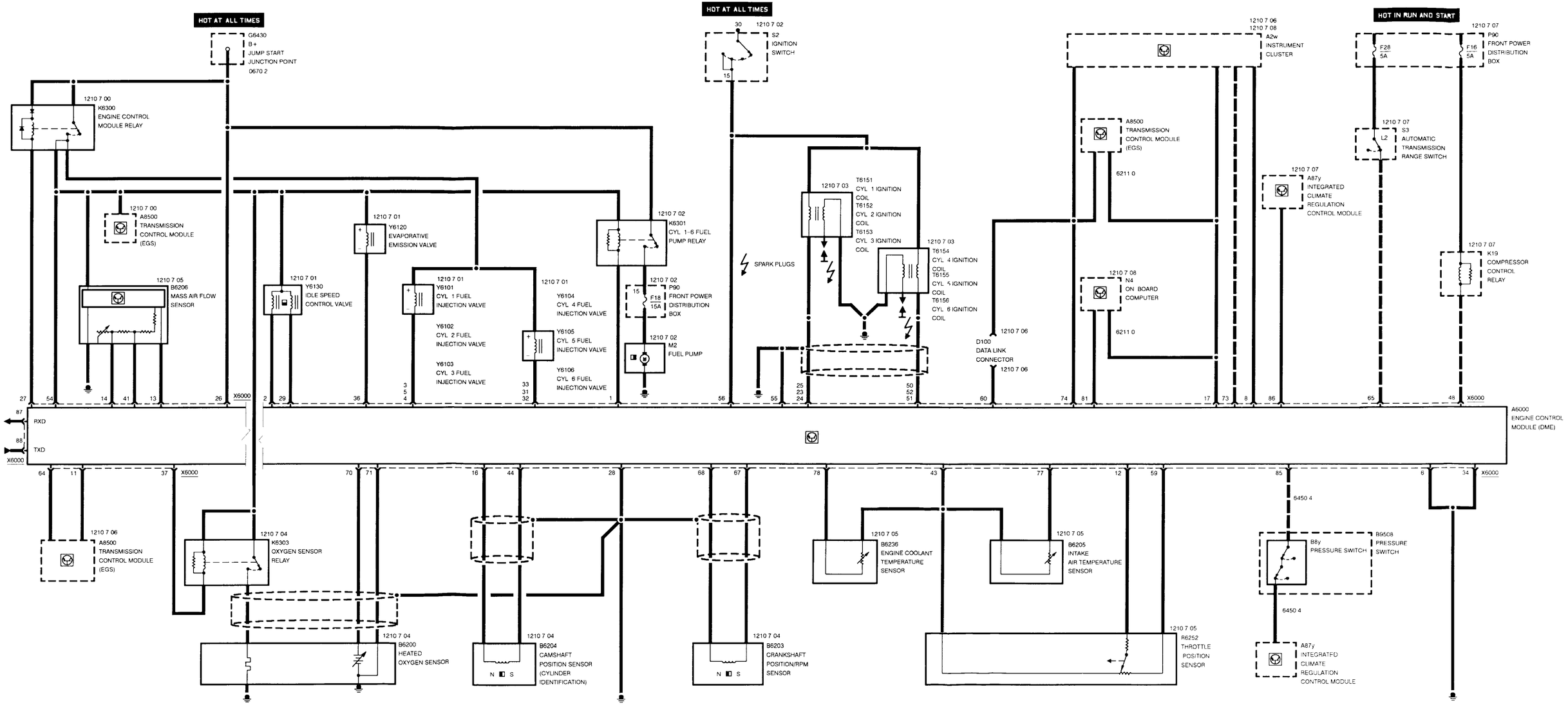
DATA LINK

DATA LINK CONNECTOR (X6002)



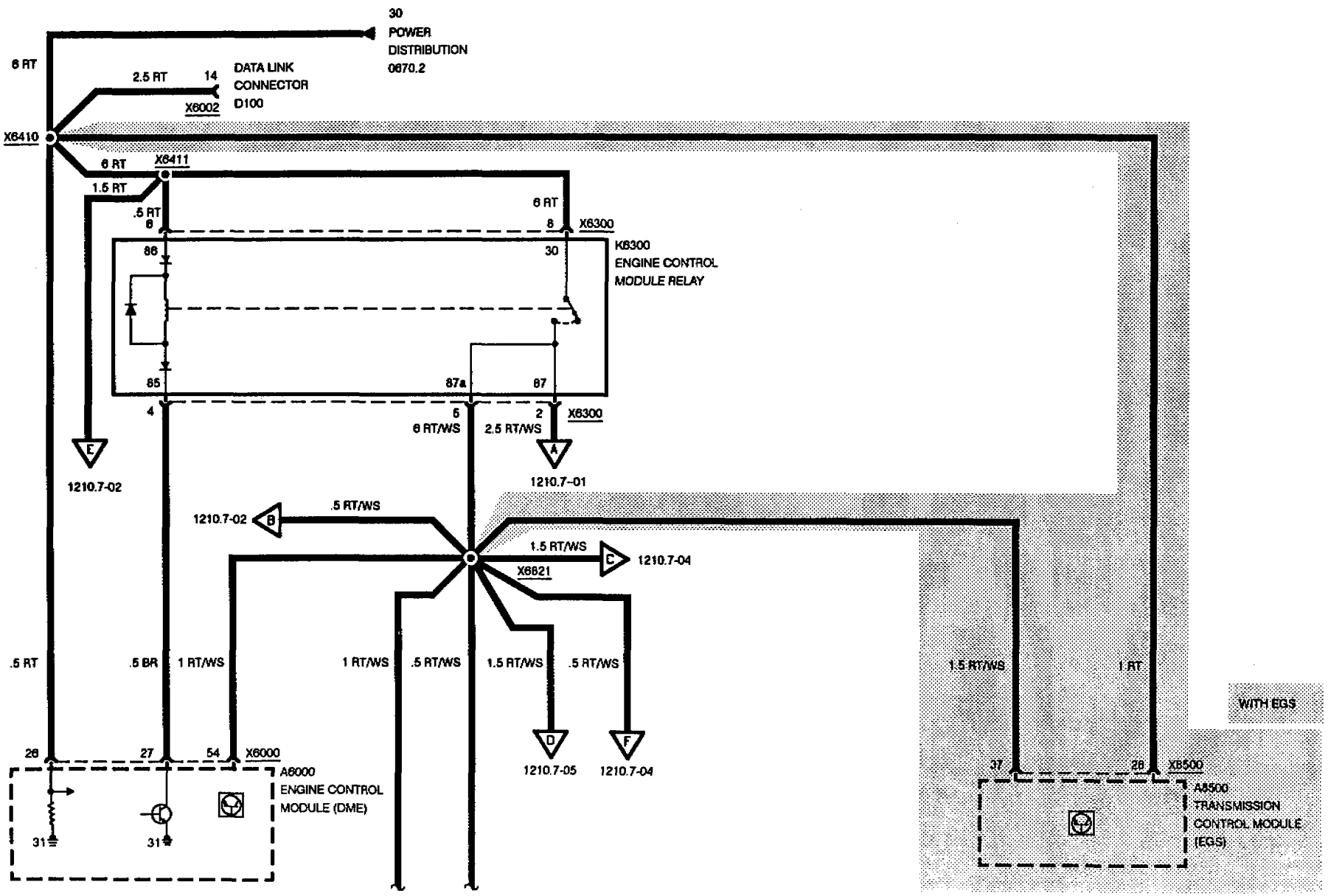
PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	–	MOTOR	SW
2	–	NOT OCCUPIED	
3	–	NOT OCCUPIED	
4	–	NOT OCCUPIED	
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	–	NOT OCCUPIED	
18	–	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

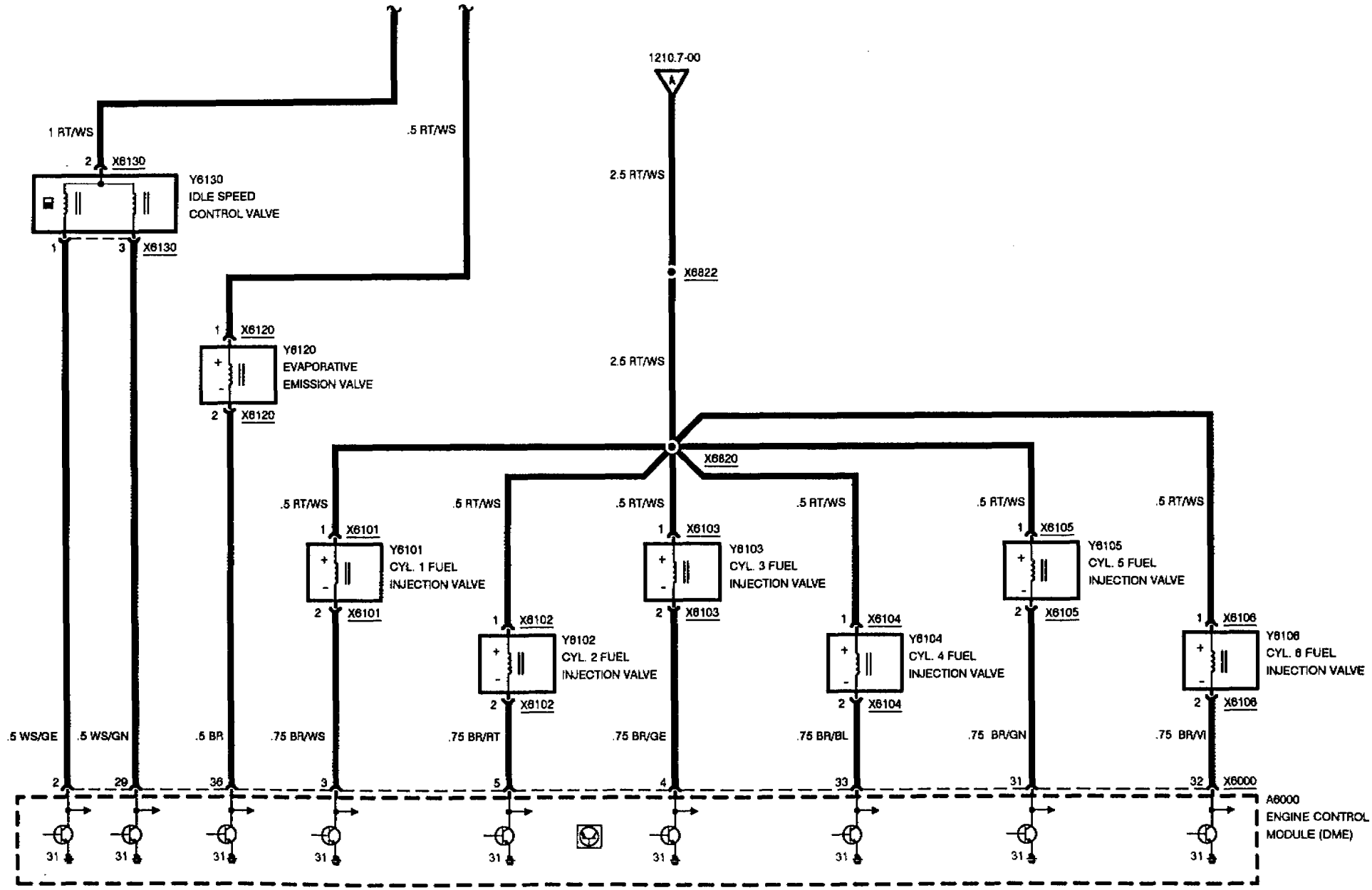
11/92 1210 7 1992
11/92 1210 7 1992

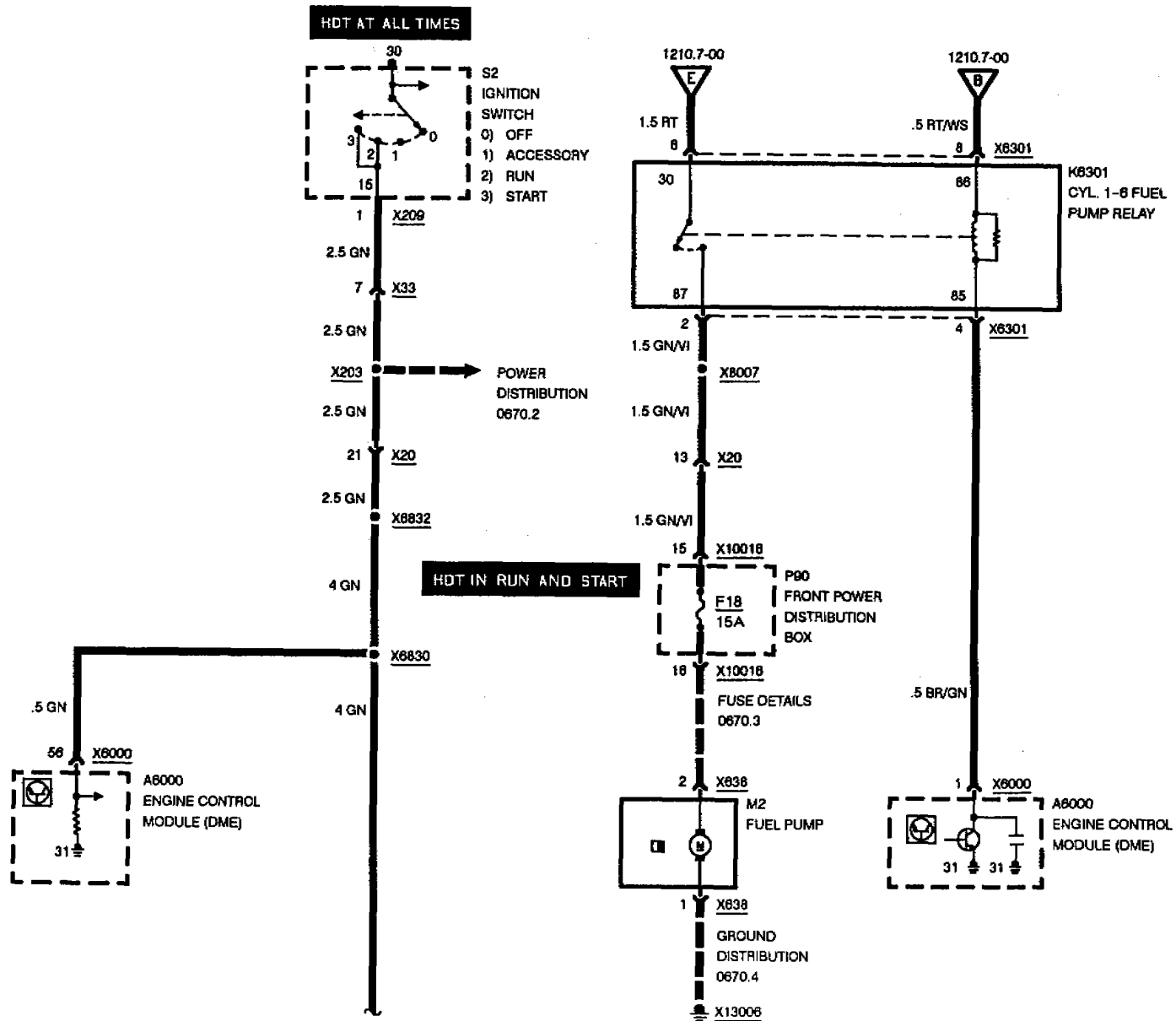


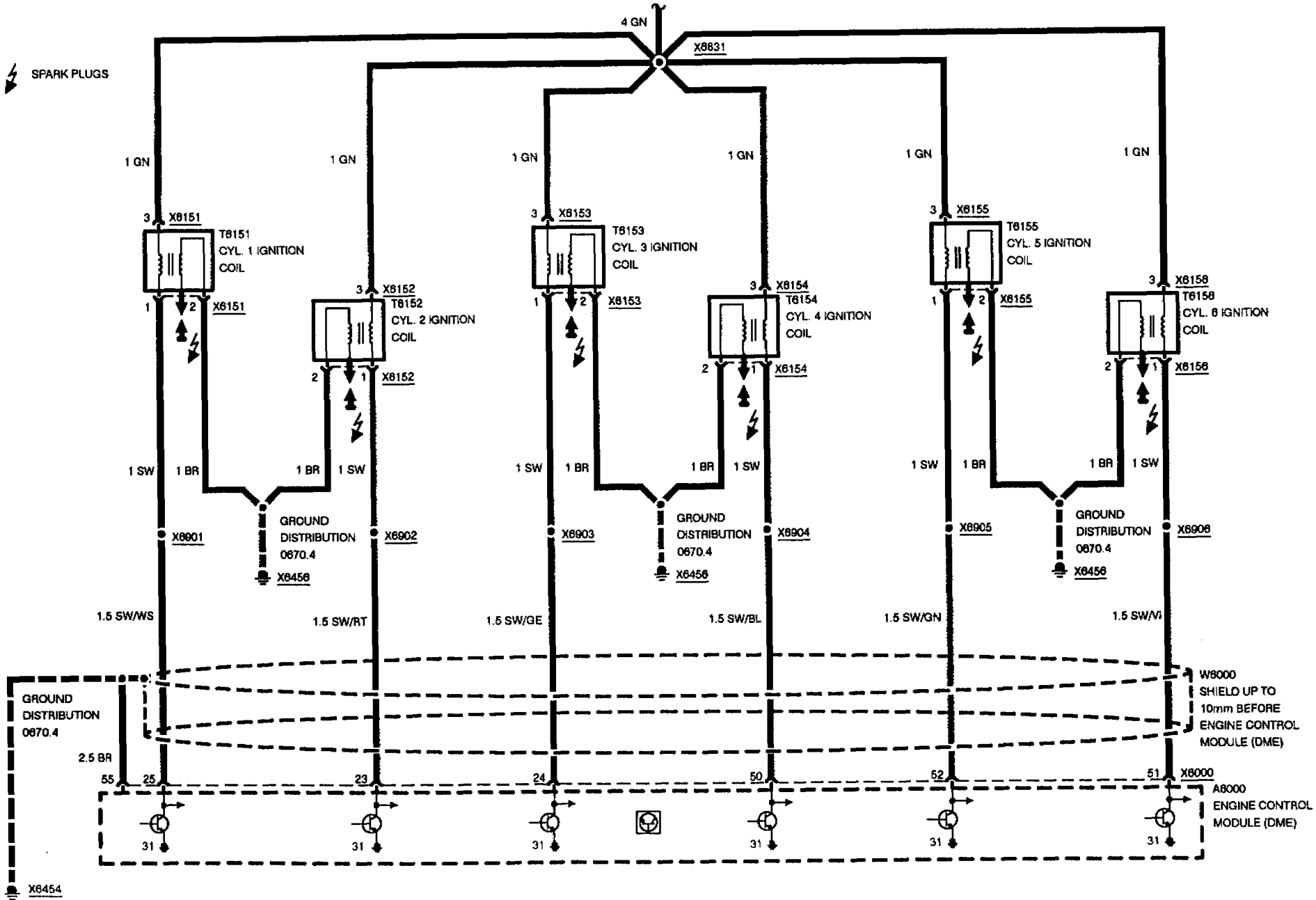
ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

POWER, FUEL INJECTION VALVES



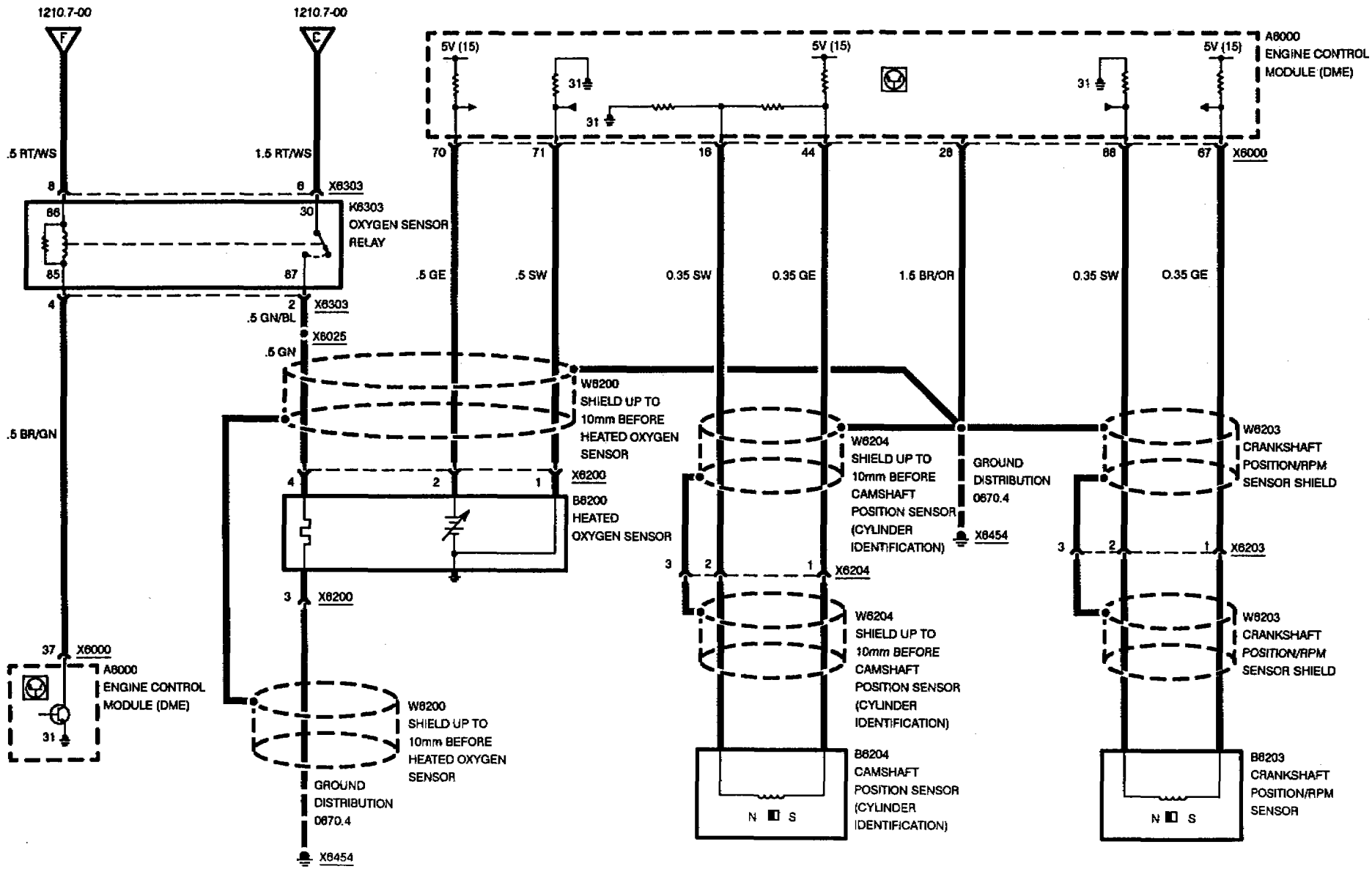

1210.7-00
1 RT/WS
.5 RT/WS
2.5 RT/WS
X6130
Y6130
IDLE SPEED
CONTROL VALVE
X6822
X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2.5 RT/WS
X6820
.5 RT/WS
X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
X6105
Y6105
CYL. 5 FUEL
INJECTION VALVE
X6106
Y6106
CYL. 6 FUEL
INJECTION VALVE
.5 WS/GE
.5 WS/GN
.5 BR
.75 BR/WS
.75 BR/RT
.75 BR/GE
.75 BR/BL
.75 BR/GN
.75 BR/VI
X6000
A6000
ENGINE CONTROL
MODULE (DME)


HOT AT ALL TIMES
30
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
15
1
X209
2.5 GN
7
X33
2.5 GN
X203
POWER
DISTRIBUTION
0670.2
2.5 GN
21
X20
2.5 GN
X6832
4 GN
X6830
.5 GN
56
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
4 GN
HOT IN RUN AND START
1210.7-00
E
1.5 RT
6
30
87
2
1.5 GN/VI
X8007
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
P90
F18
15A
FRONT POWER
DISTRIBUTION
BOX
16
X10016
FUSE DETAILS
0670.3
2
X638
M2
FUEL PUMP
1
X638
GROUND
DISTRIBUTION
0670.4
X13006
1210.7-00
B
.5 RT/WS
8
X6301
K6301
CYL. 1-6 FUEL
PUMP RELAY
86
85
4
X6301
.5 BR/GN
1
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
31

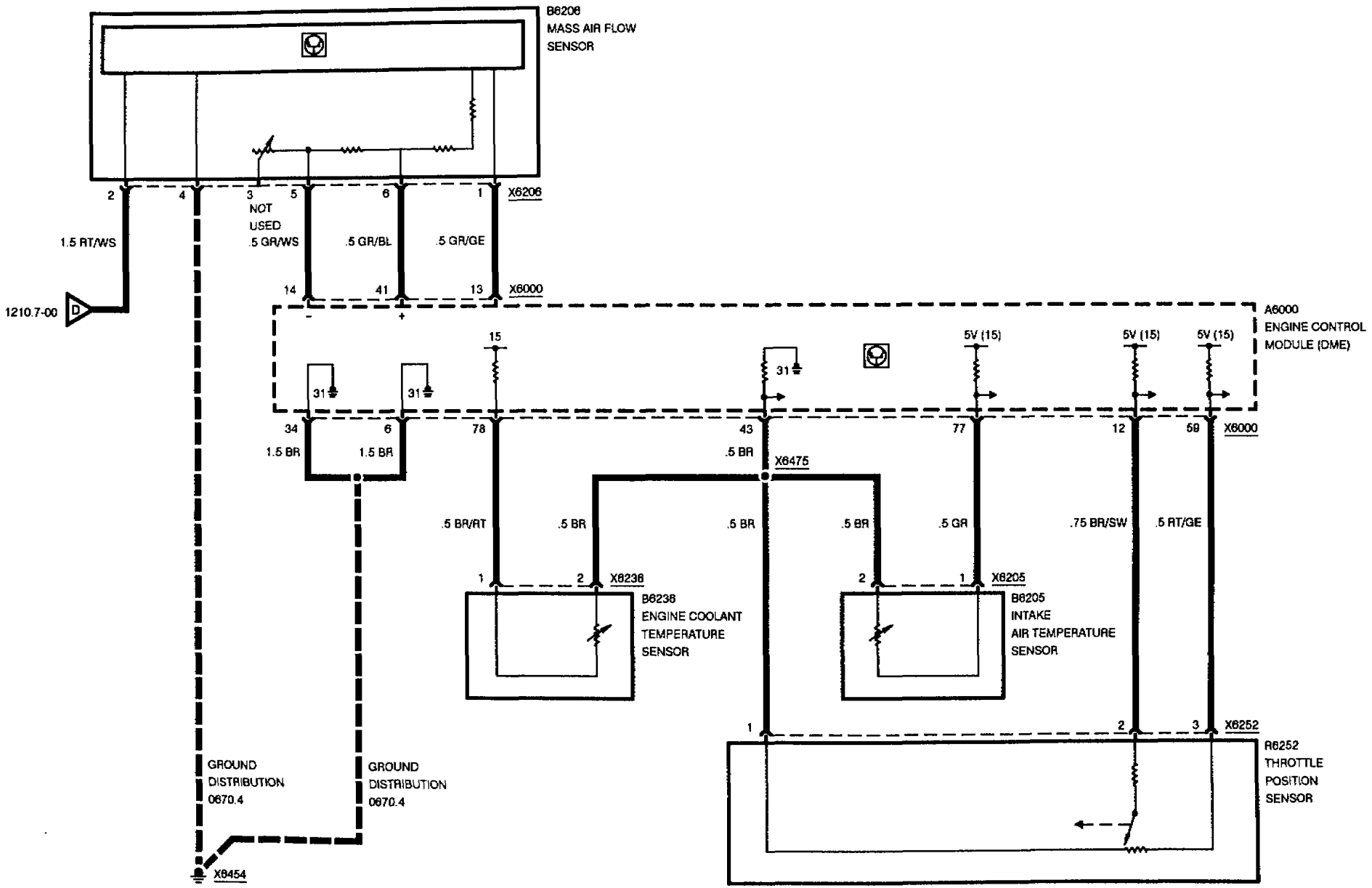

SPARK PLUGS
4 GN
X6631
1 GN
1 GN
1 GN
1 GN
1 GN
1 GN
3 X6151
T6151
CYL. 1 IGNITION COIL
1 2 X6151
3 X6152
T6152
CYL. 2 IGNITION COIL
2 1 X6152
3 X6153
T6153
CYL. 3 IGNITION COIL
1 2 X6153
3 X6154
T6154
CYL. 4 IGNITION COIL
2 1 X6154
3 X6155
T6155
CYL. 5 IGNITION COIL
1 2 X6155
3 X6156
T6156
CYL. 6 IGNITION COIL
2 1 X6156
1 SW
1 BR
1 BR
1 SW
1 SW
1 BR
1 BR
1 SW
1 SW
1 BR
1 BR
1 SW
GROUND DISTRIBUTION 0670.4
X6456
X6901
X6902
X6903
X6904
X6905
X6906
1.5 SW/WS
1.5 SW/RT
1.5 SW/GE
1.5 SW/BL
1.5 SW/GN
1.5 SW/VI
GROUND DISTRIBUTION 0670.4
X6454
2.5 BR
55
25
23
24
50
52
51
X6000
W6000
SHIELD UP TO 10mm BEFORE ENGINE CONTROL MODULE (DME)
A6000
ENGINE CONTROL MODULE (DME)
31
31
31
31
31
31

ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

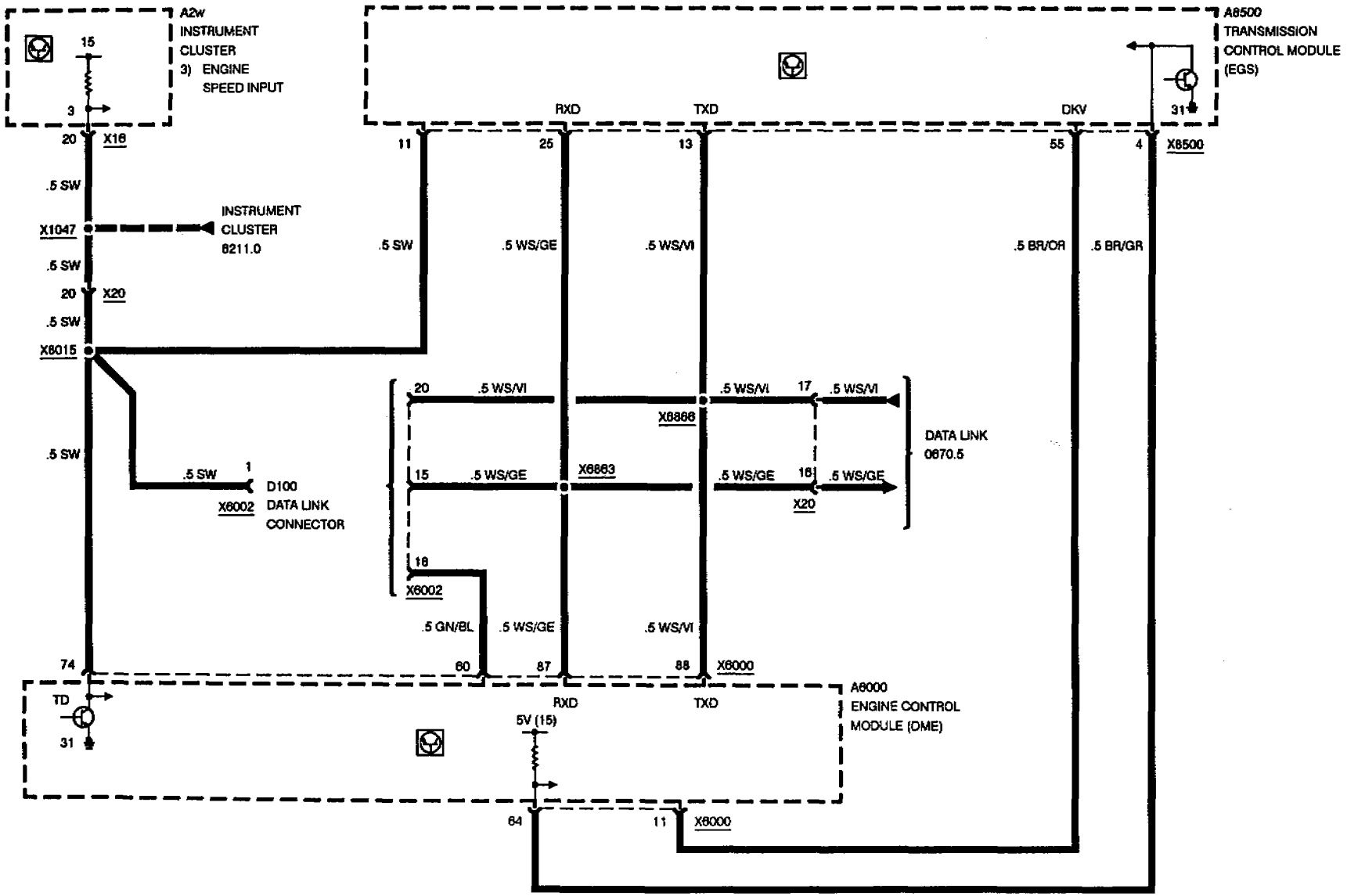


ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

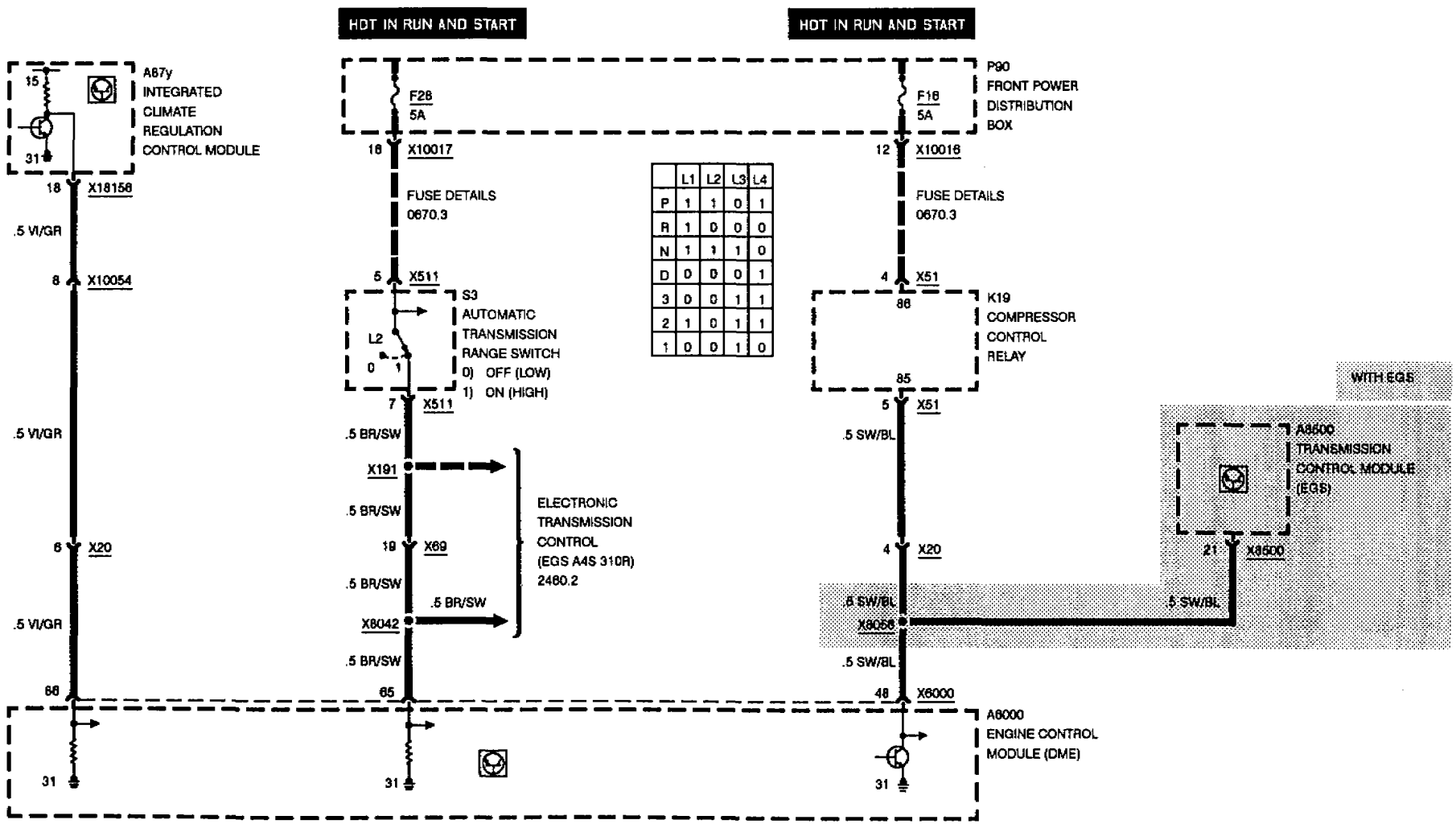


ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)

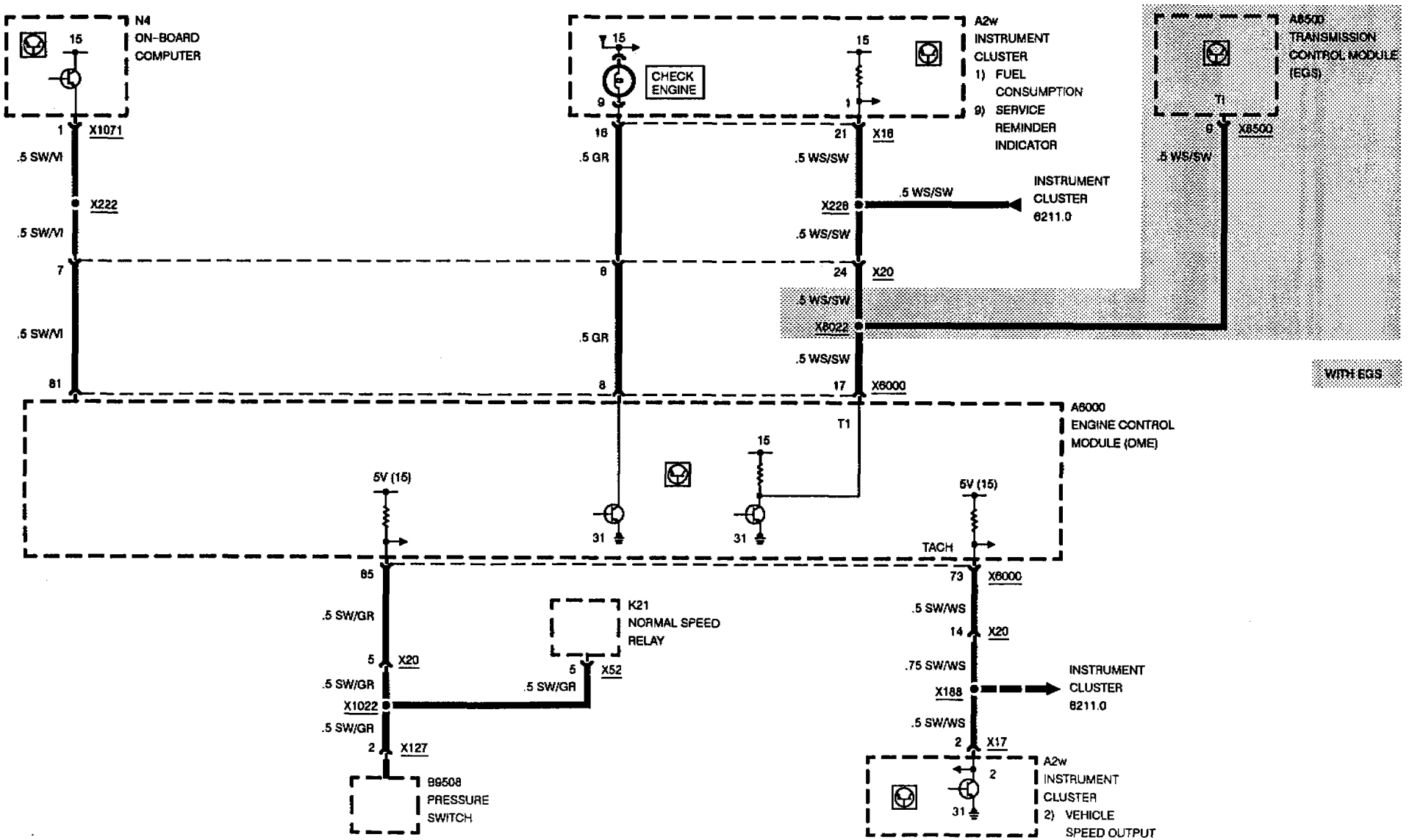
DATA LINK



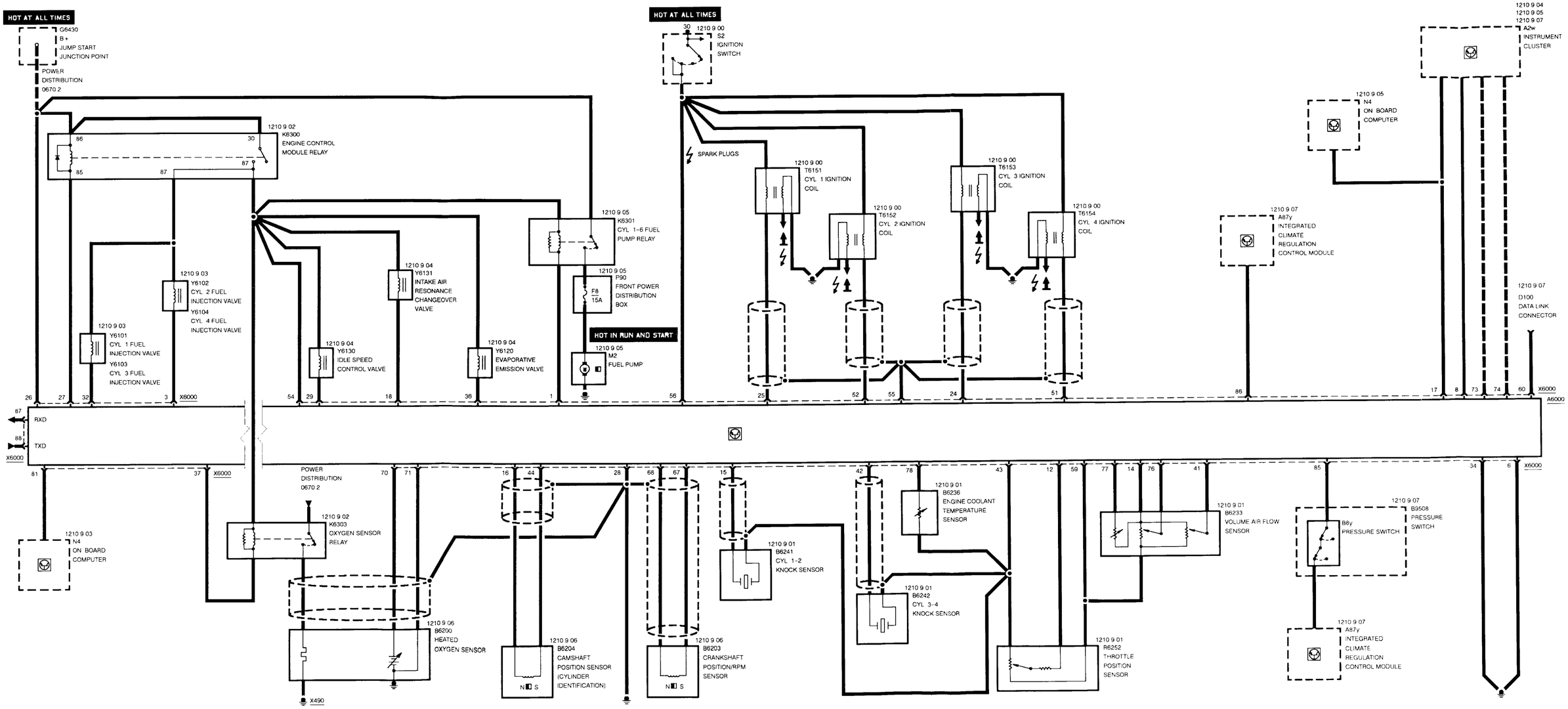
ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)



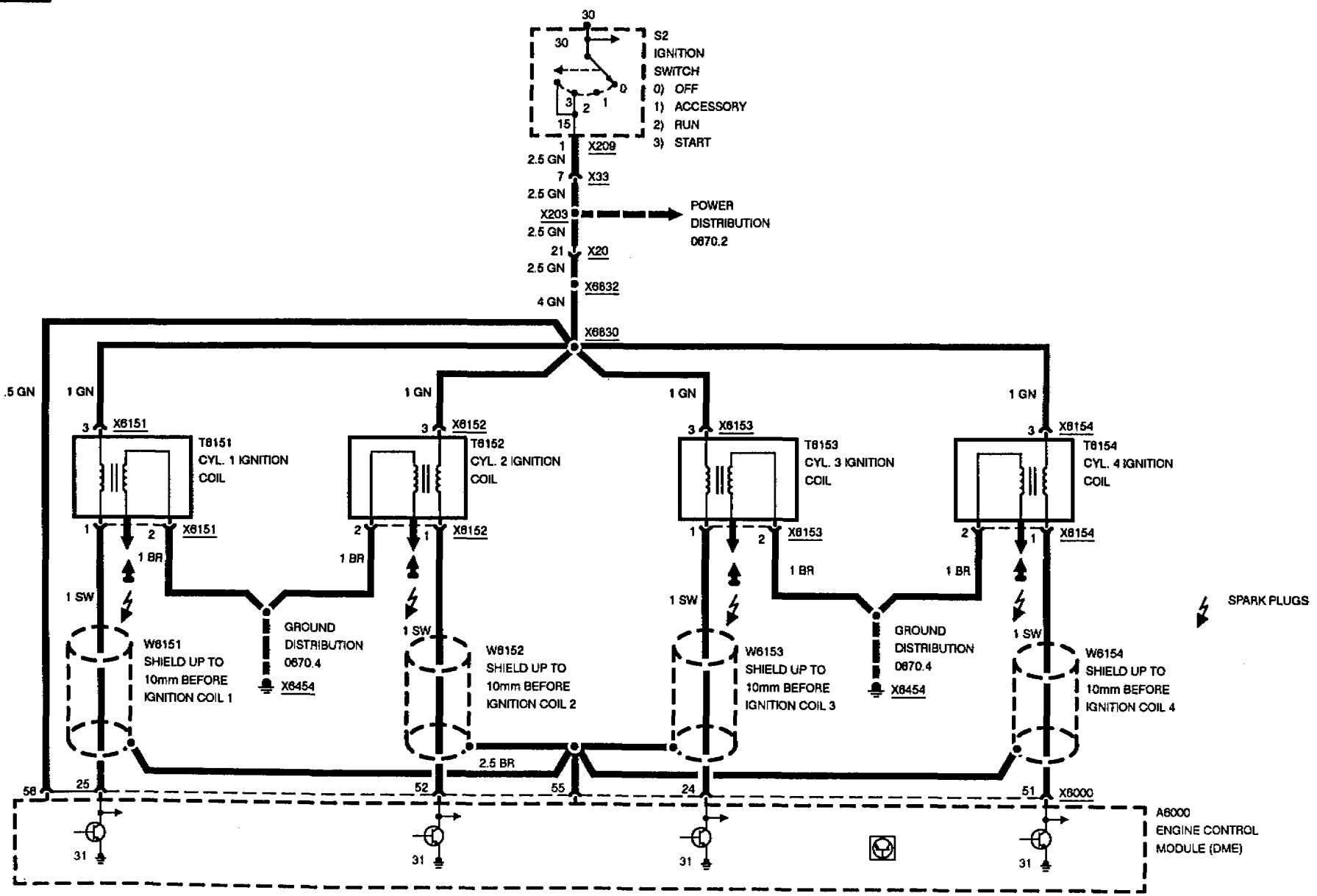
ENGINE CONTROL SYSTEM (DME M3.1, 6-CYLINDER M50)



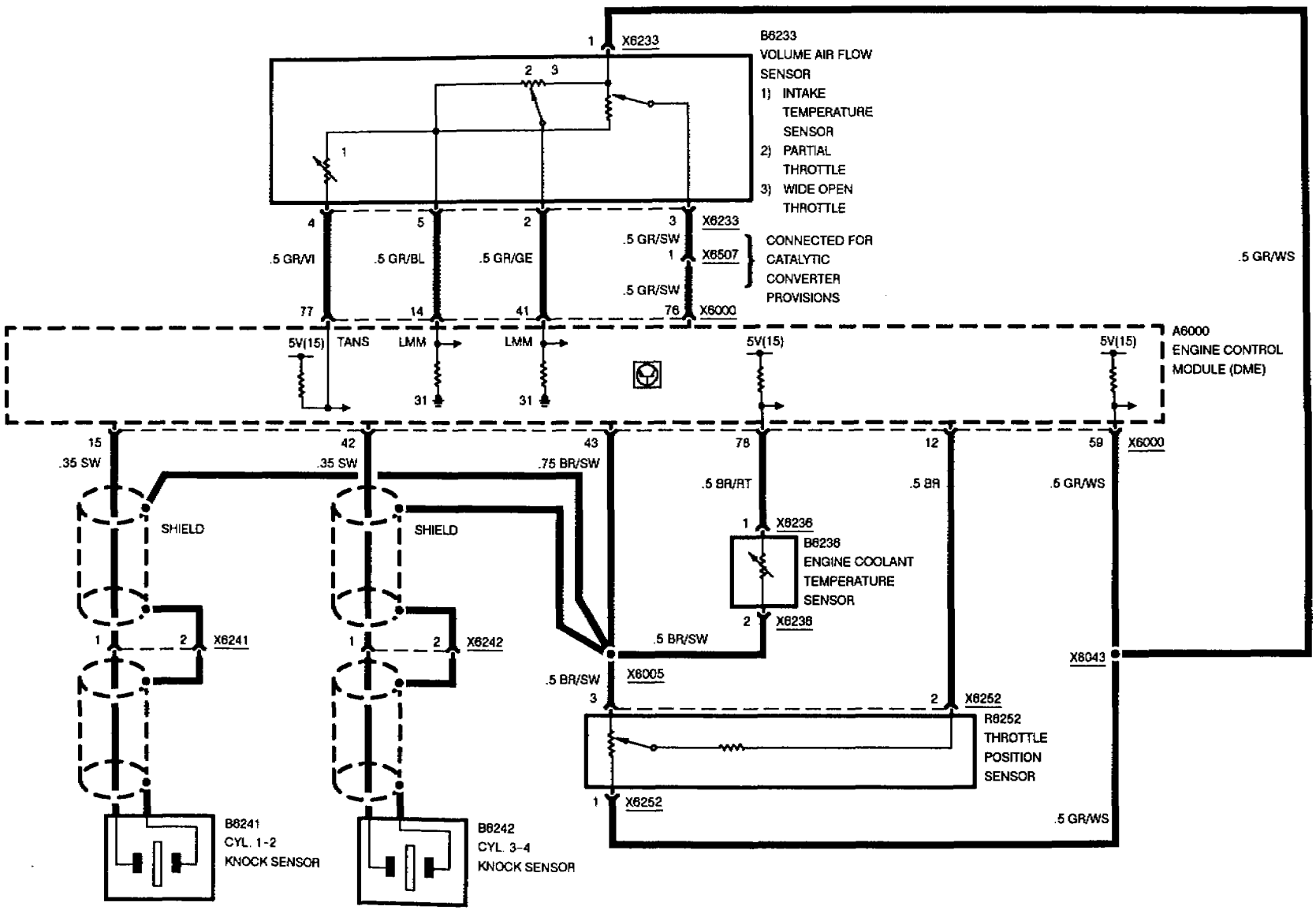
11/92 1210 9 1992
11/92 1210 9 1992



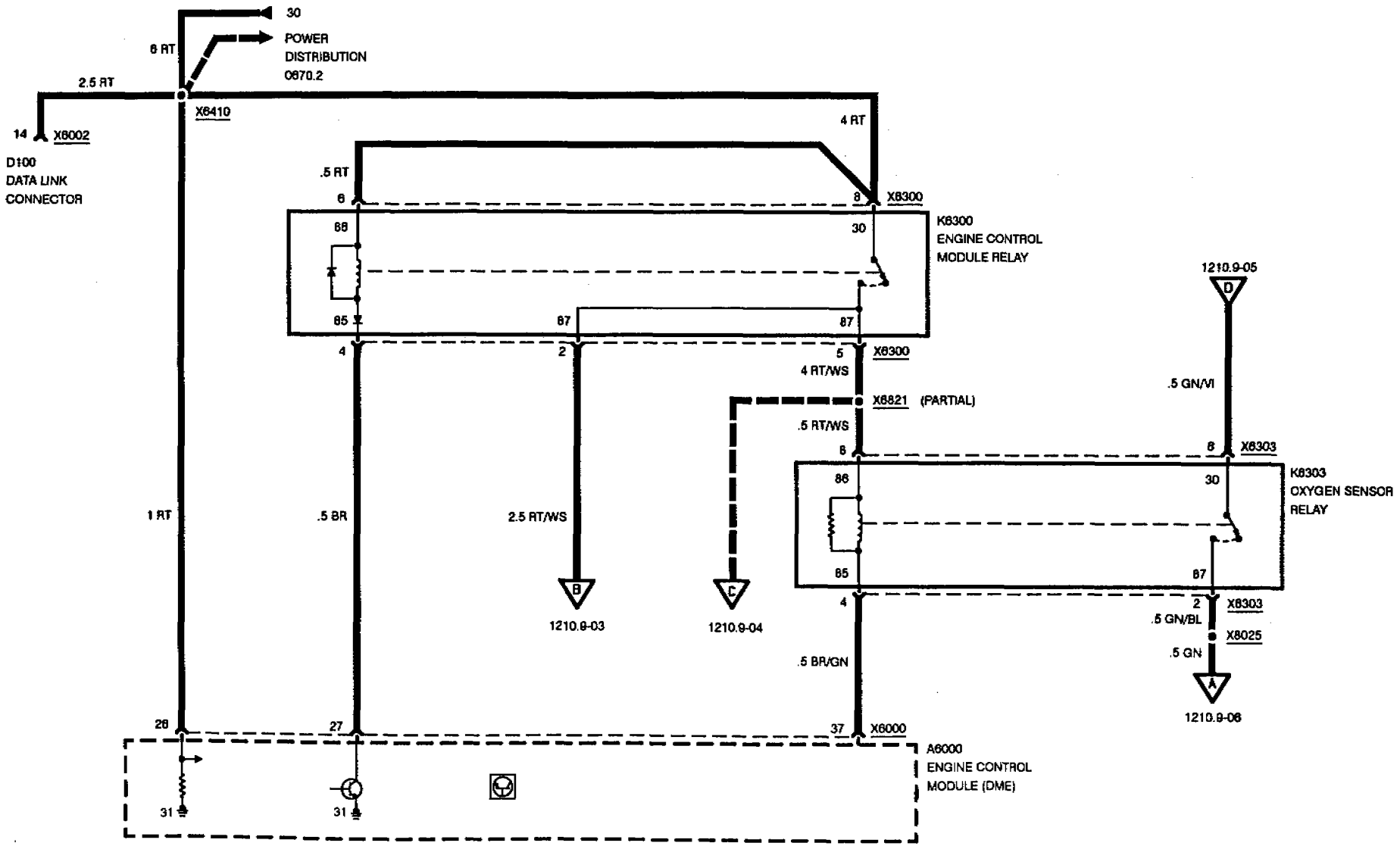
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



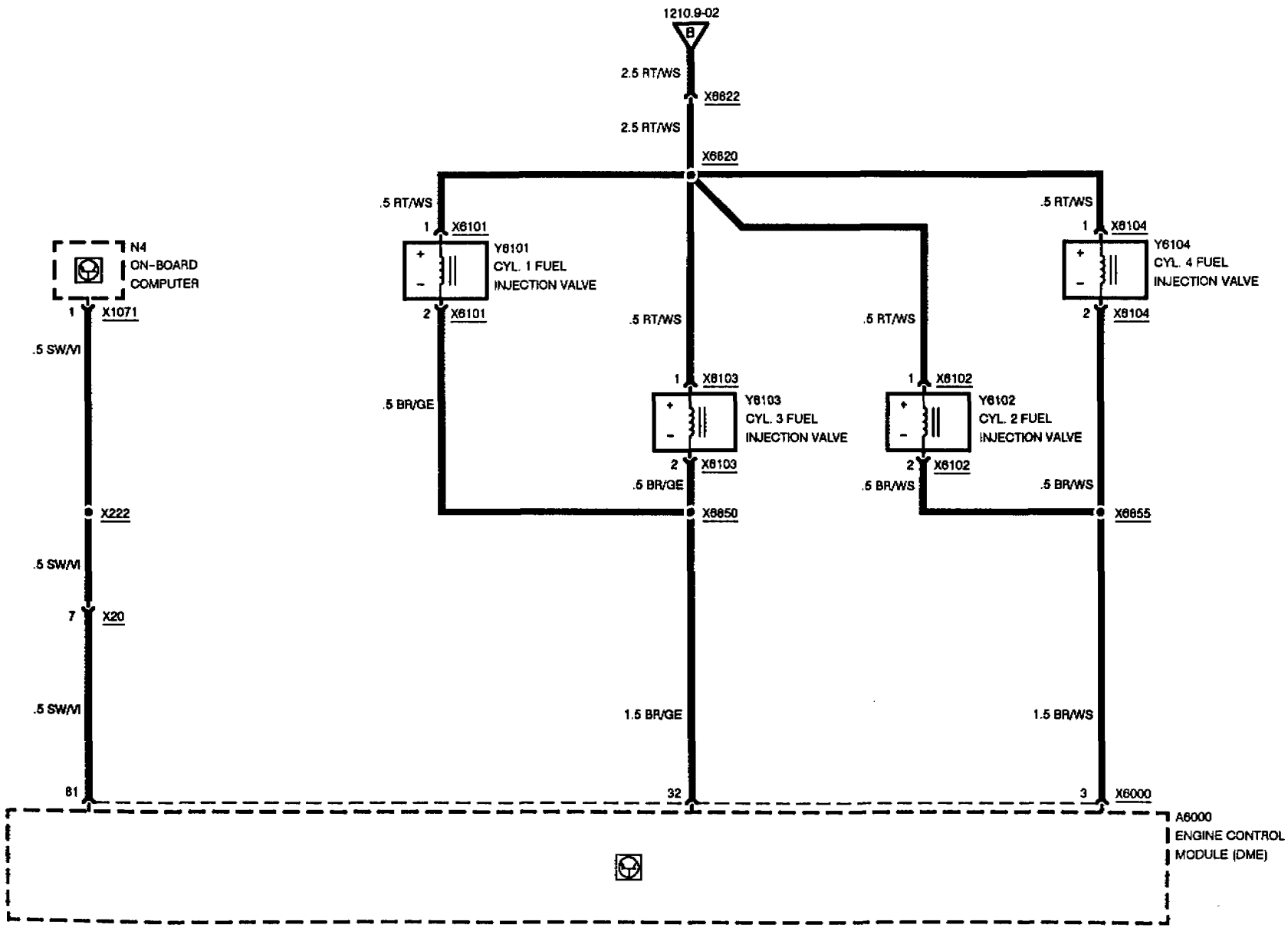
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



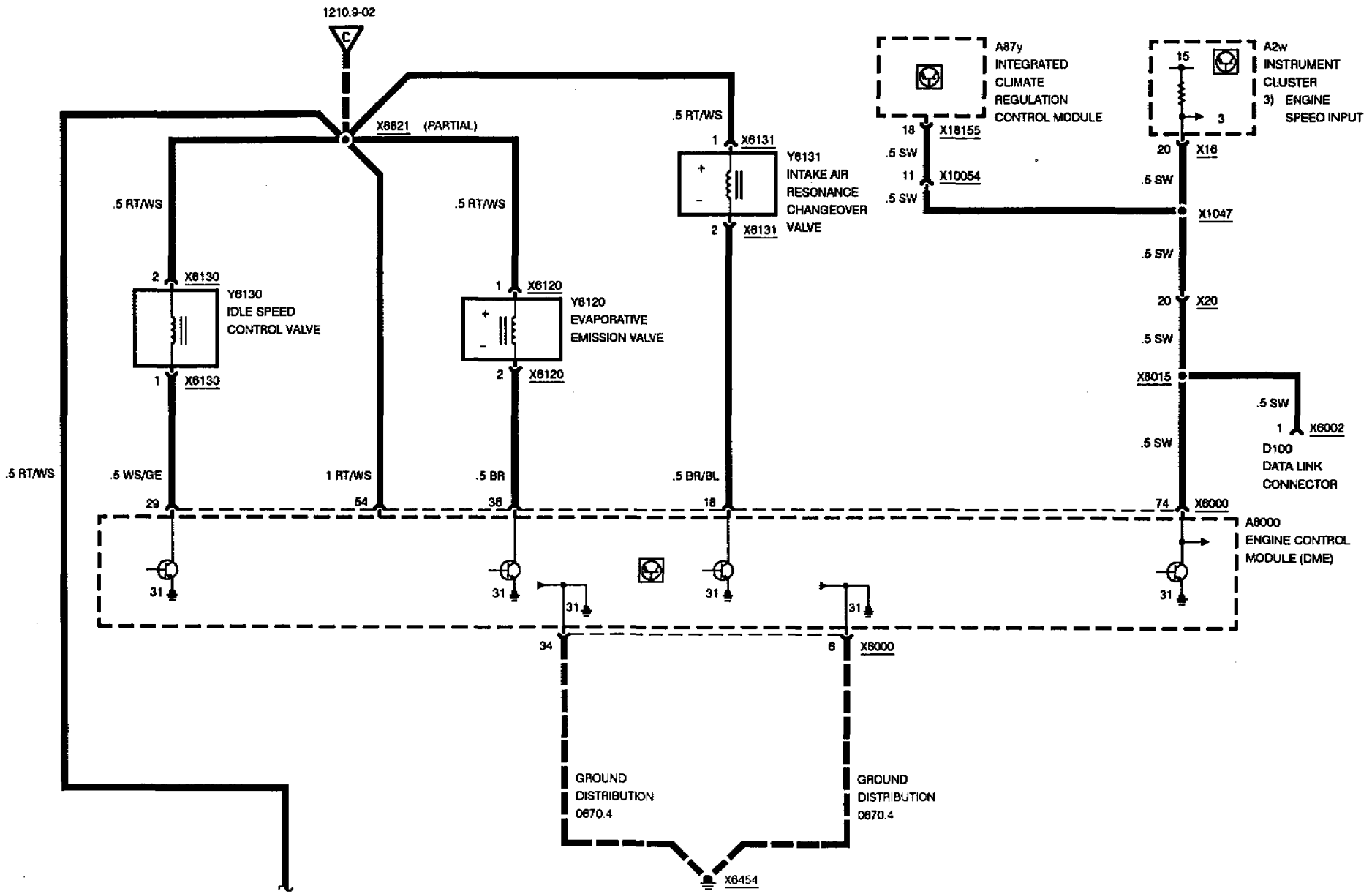
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

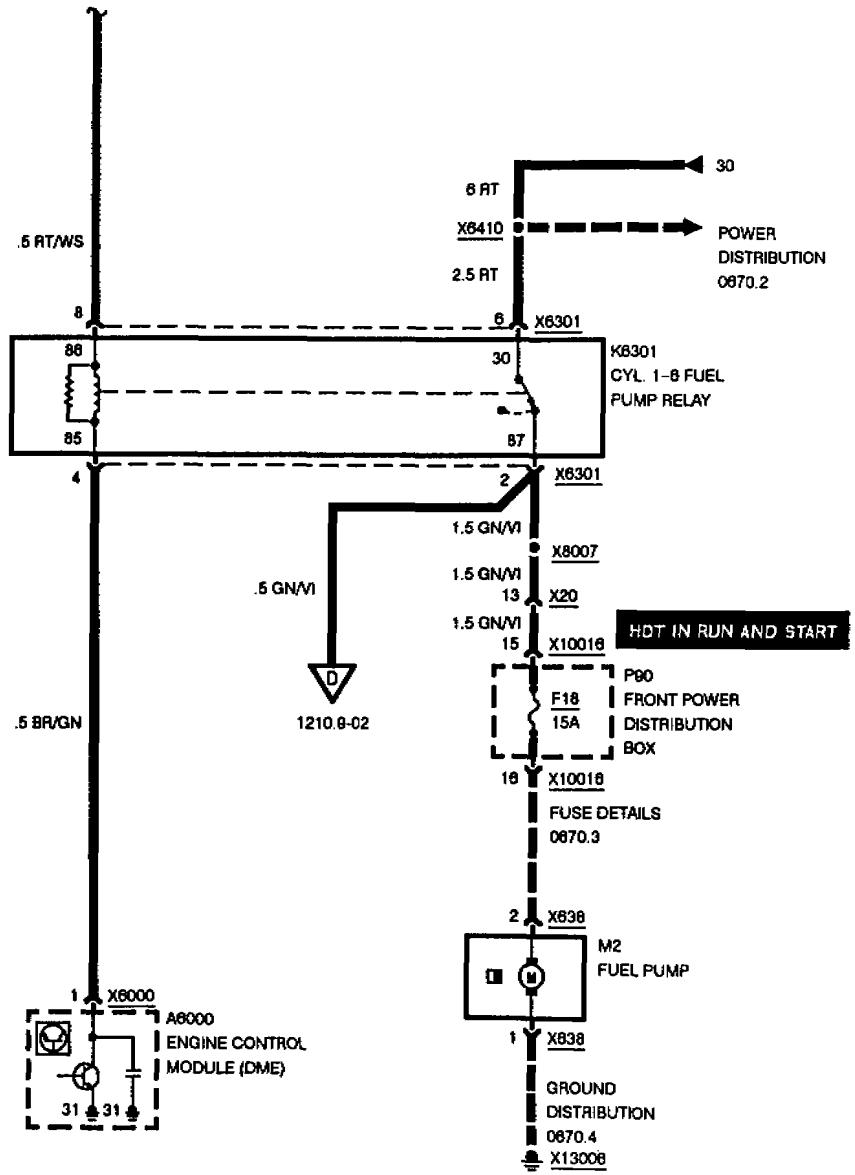


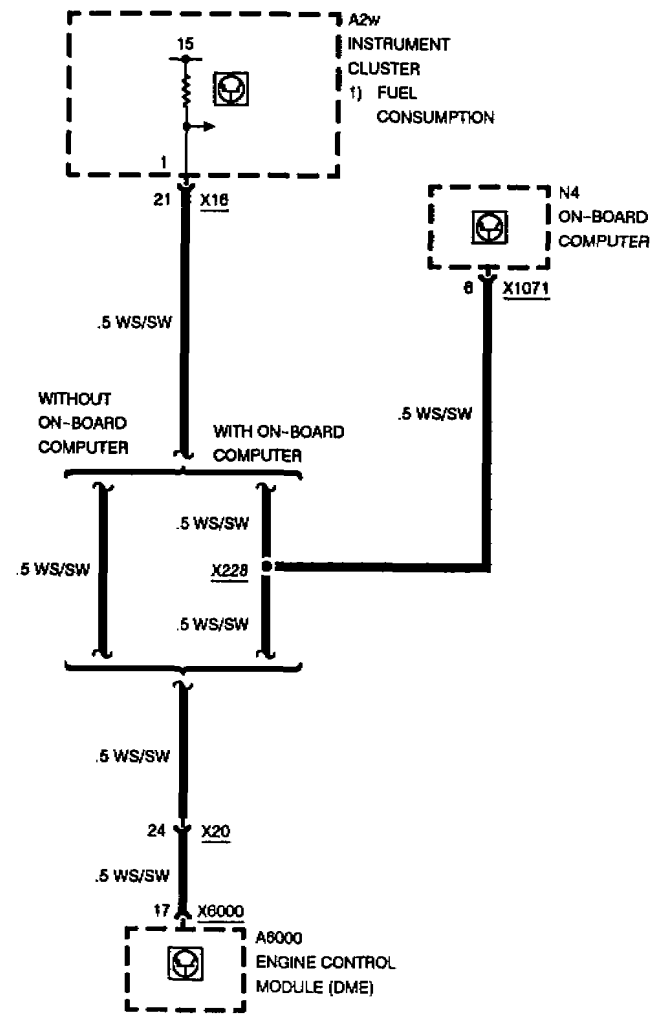
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



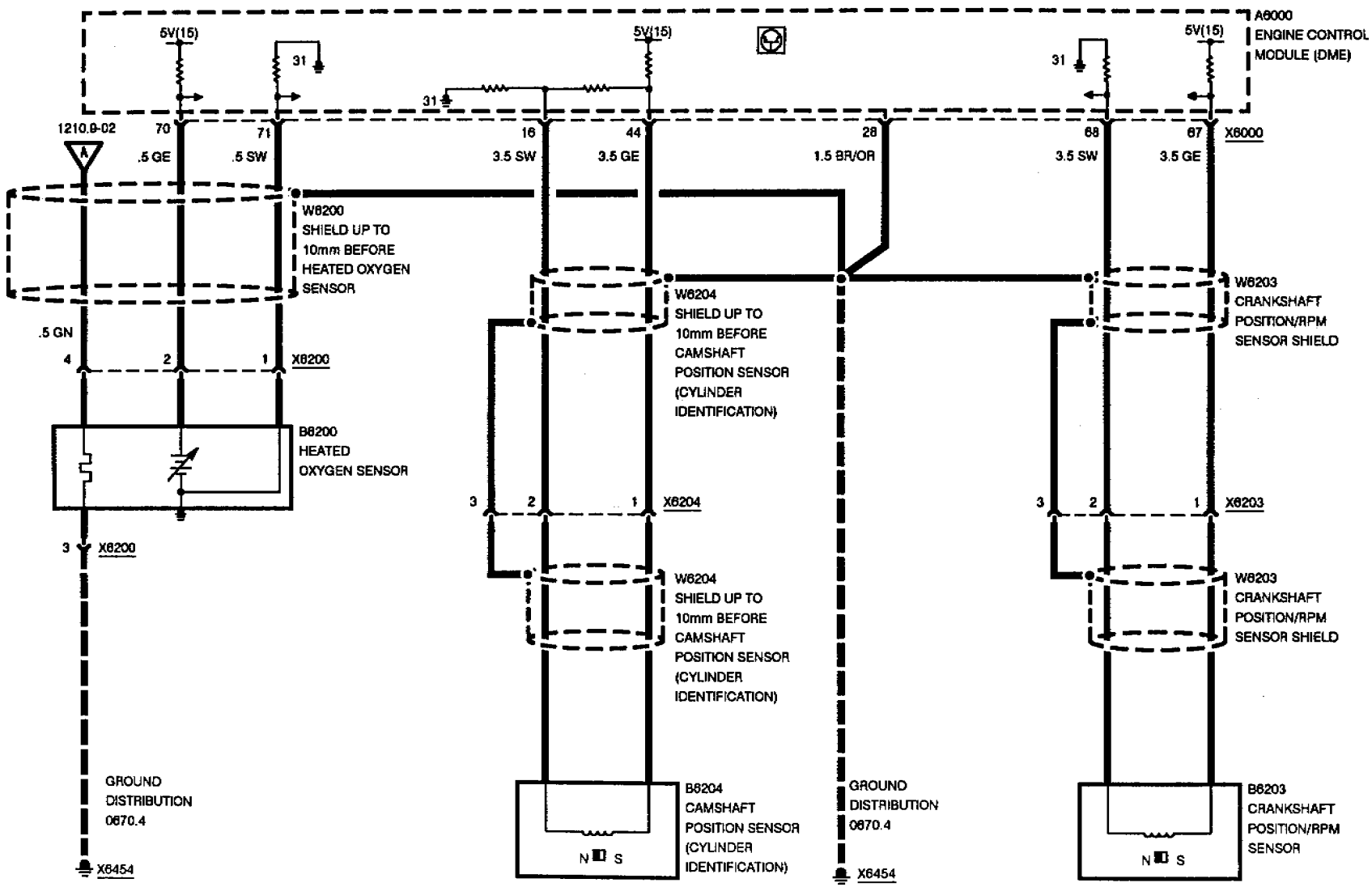
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



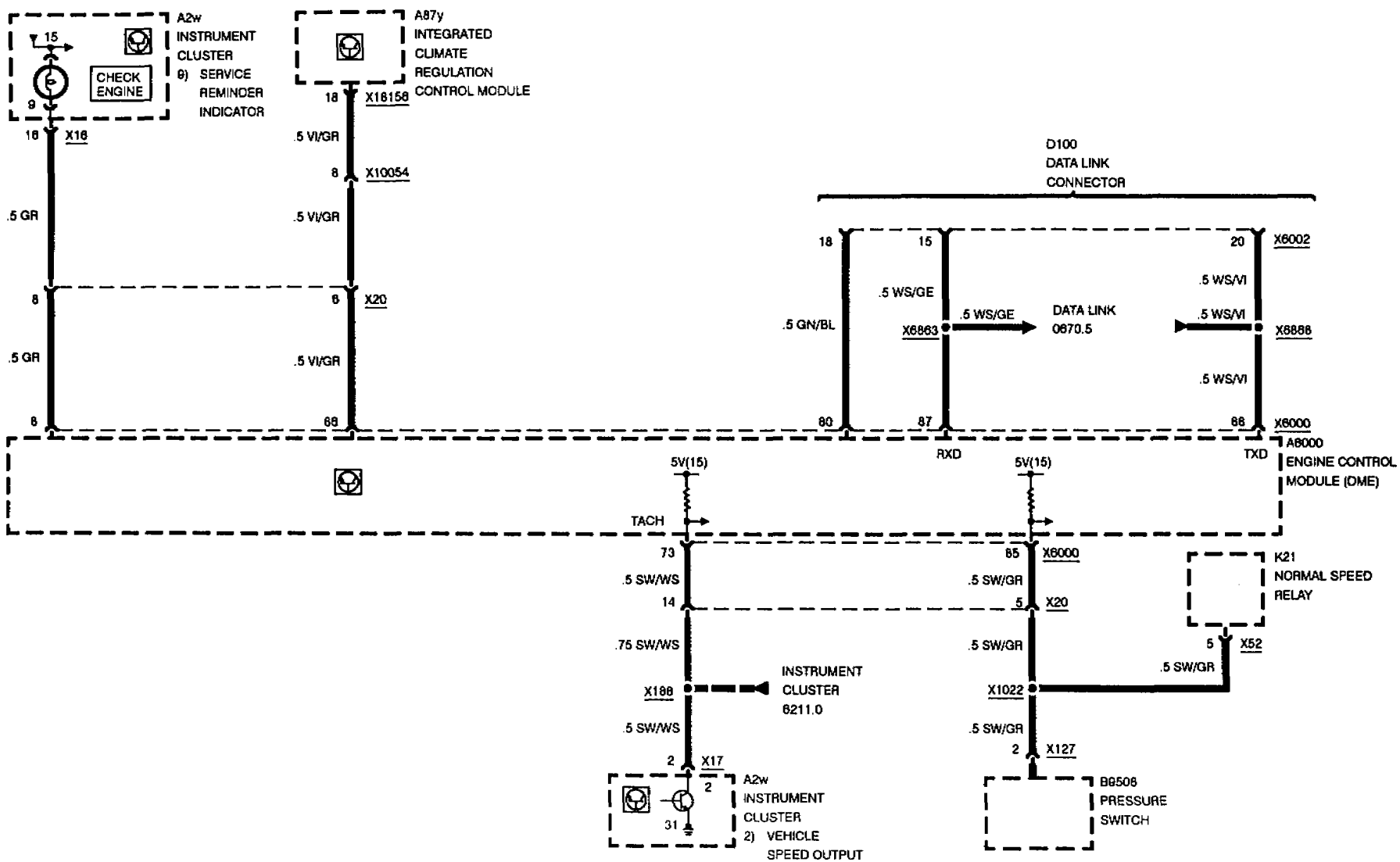

.5 RT/WS
8
6 RT
X6410
2.5 RT
30
POWER DISTRIBUTION 0670.2
6
X6301
86
85
30
87
K6301 CYL. 1-6 FUEL PUMP RELAY
4
2
X6301
1.5 GN/VI
X8007
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
HOT IN RUN AND START
.5 GN/VI
D
1210.9-02
F18
15A
P90 FRONT POWER DISTRIBUTION BOX
.5 BR/GN
16
X10016
FUSE DETAILS 0670.3
2
X636
M2 FUEL PUMP
1
X838
GROUND DISTRIBUTION 0670.4
X13006
1
X6000
A6000 ENGINE CONTROL MODULE (DME)
31
31


A2w INSTRUMENT CLUSTER
1) FUEL CONSUMPTION
15
1
21
X16
N4 ON-BOARD COMPUTER
8
X1071
.5 WS/SW
.5 WS/SW
WITHOUT ON-BOARD COMPUTER
WITH ON-BOARD COMPUTER
.5 WS/SW
.5 WS/SW
X228
.5 WS/SW
.5 WS/SW
24
X20
.5 WS/SW
17
X6000
A6000 ENGINE CONTROL MODULE (DME)

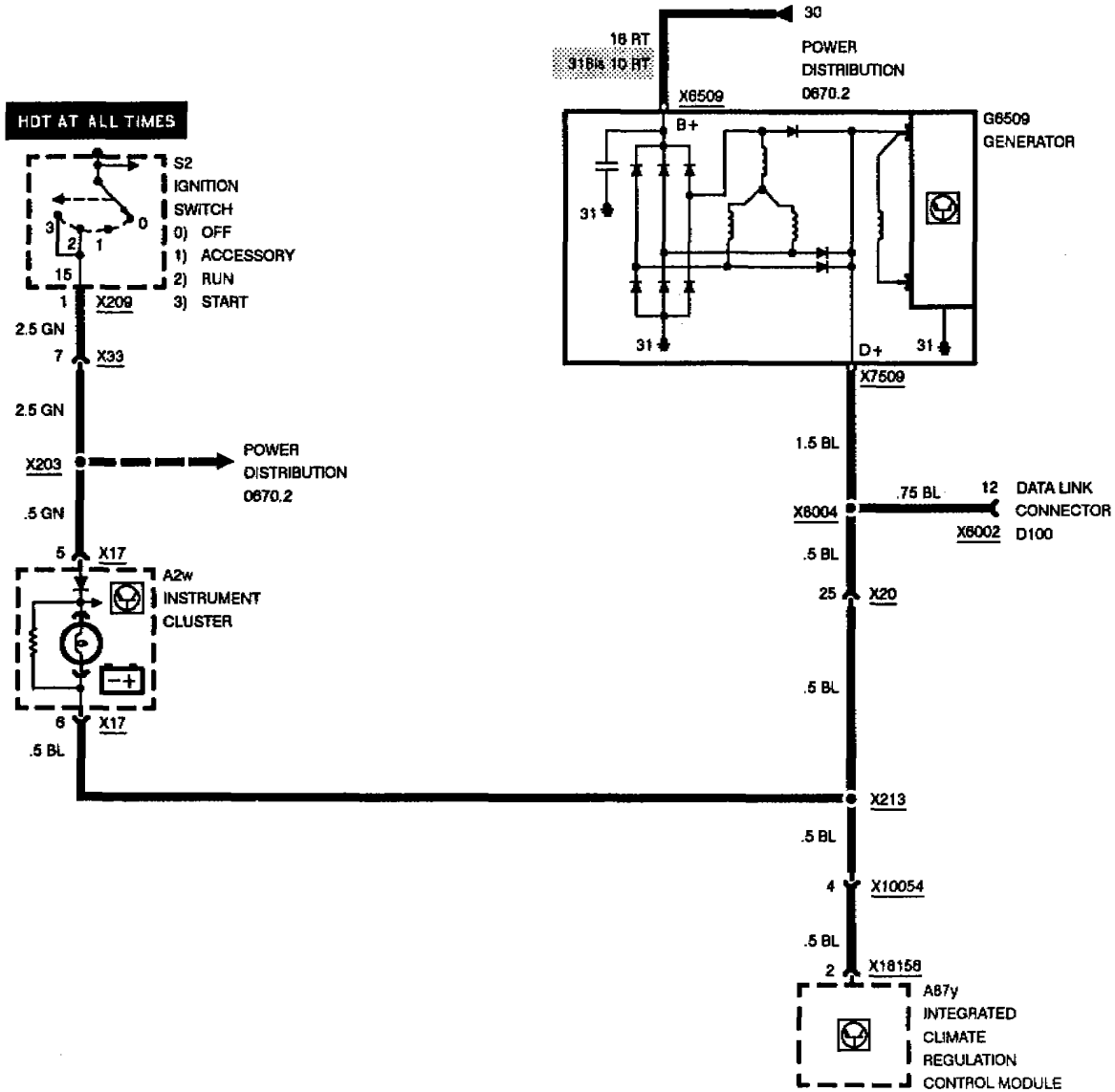
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

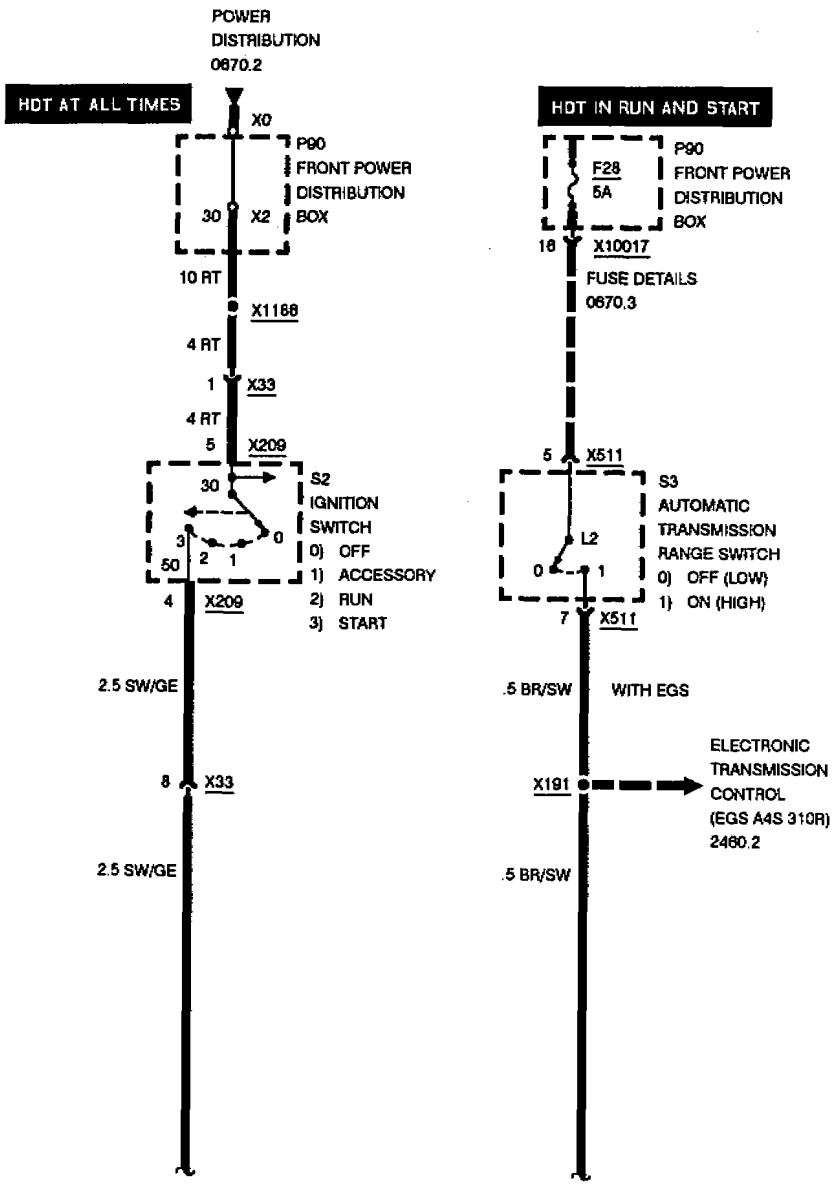


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



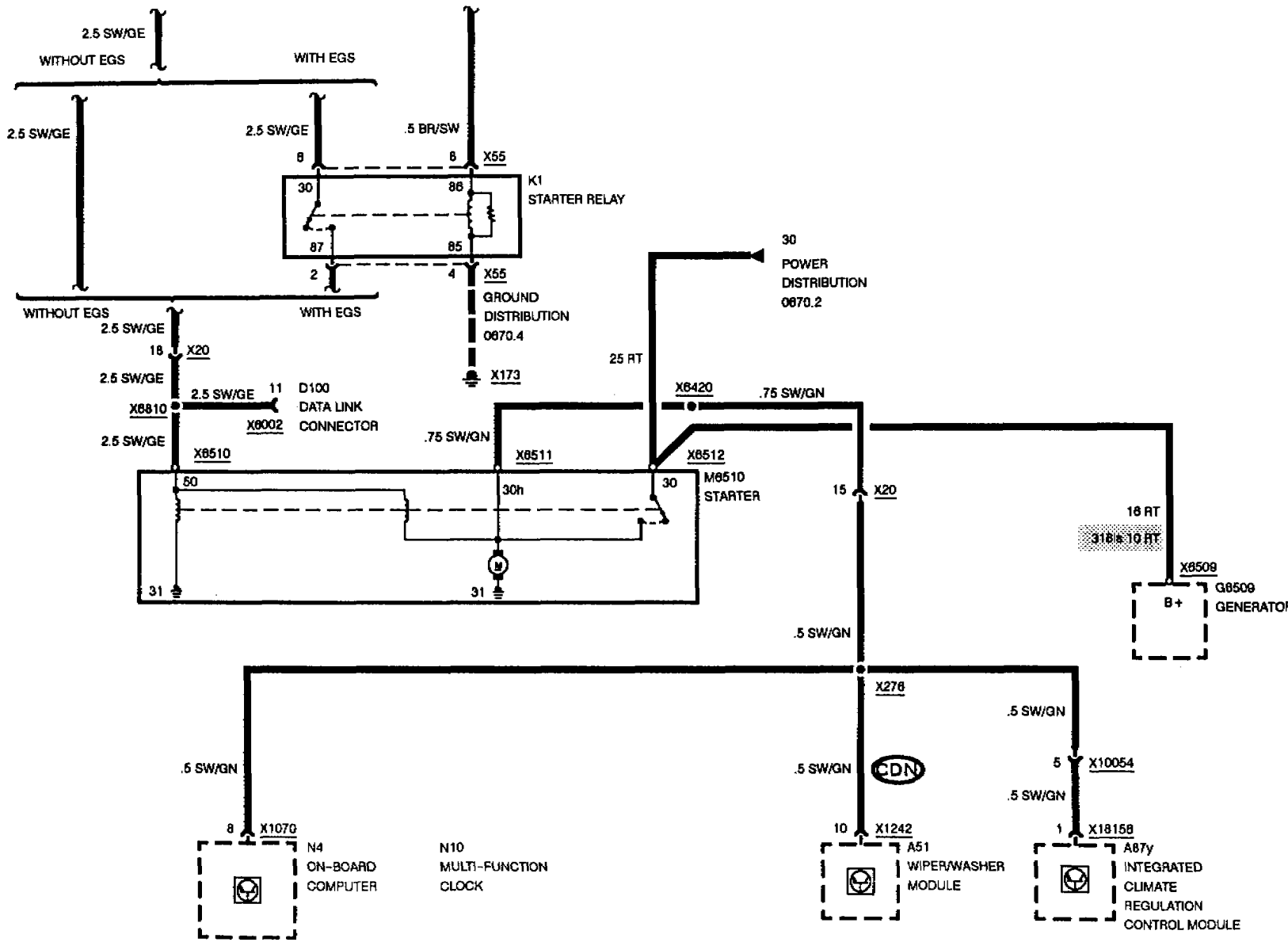
CHARGING SYSTEM



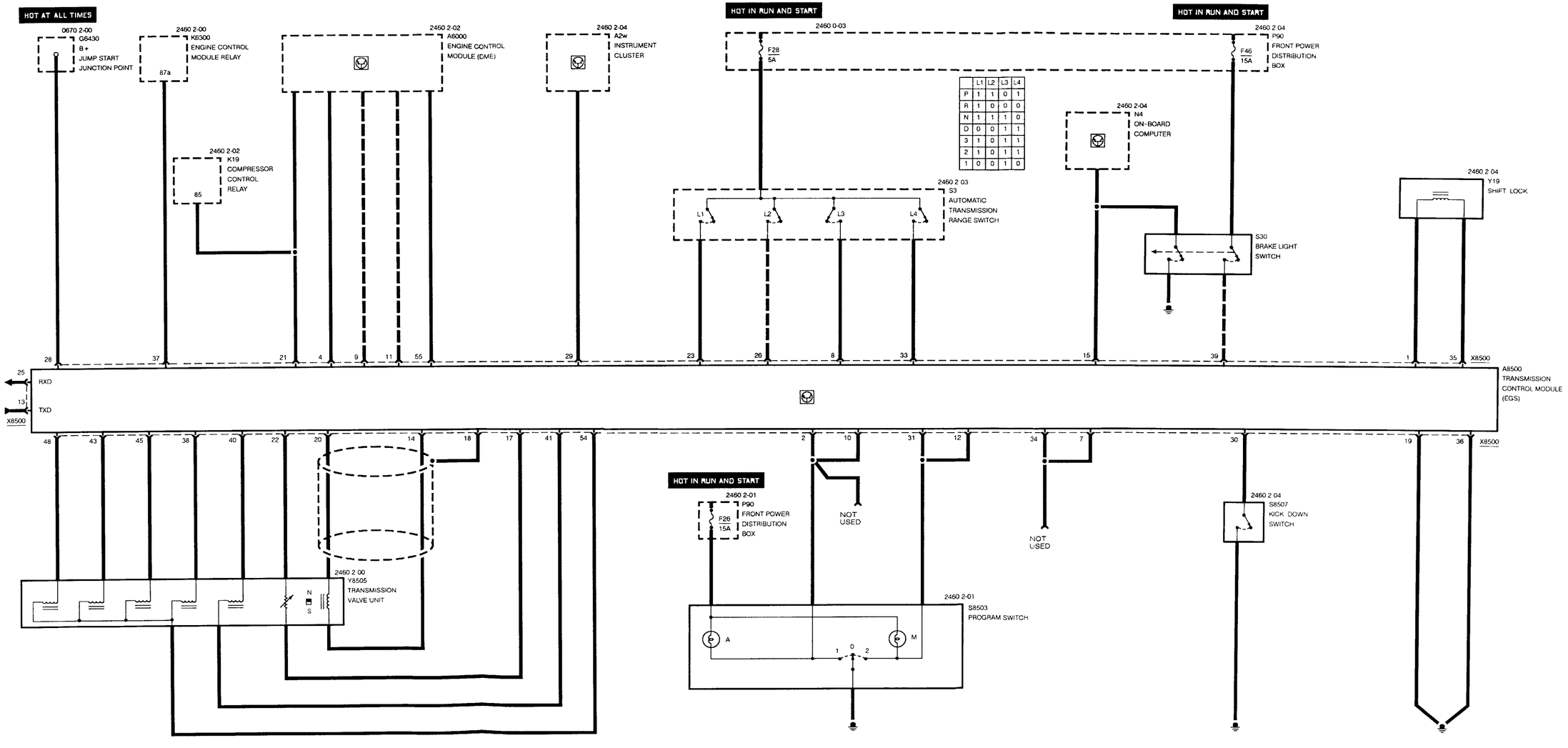


EGS A4S 310R

	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0


2.5 SW/GE
WITHOUT EGS
WITH EGS
2.5 SW/GE
2.5 SW/GE
.5 BR/SW
8
8
X55
K1
STARTER RELAY
30
86
87
85
2
4
X55
GROUND
DISTRIBUTION
0670.4
WITHOUT EGS
WITH EGS
2.5 SW/GE
18
X20
2.5 SW/GE
2.5 SW/GE
11
D100
DATA LINK
CONNECTOR
X6002
X6810
2.5 SW/GE
X6510
X173
30
POWER
DISTRIBUTION
0670.2
25 RT
X6420
.75 SW/GN
.75 SW/GN
X6511
X6512
50
30h
30
M6510
STARTER
31
31
15
X20
18 RT
318 & 10 RT
X6509
B+
G6509
GENERATOR
.5 SW/GN
X276
.5 SW/GN
.5 SW/GN
CDN
5
X10054
.5 SW/GN
8
X1070
10
X1242
1
X18158
N4
ON-BOARD
COMPUTER
N10
MULTI-FUNCTION
CLOCK
A51
WIPER/WASHER
MODULE
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE

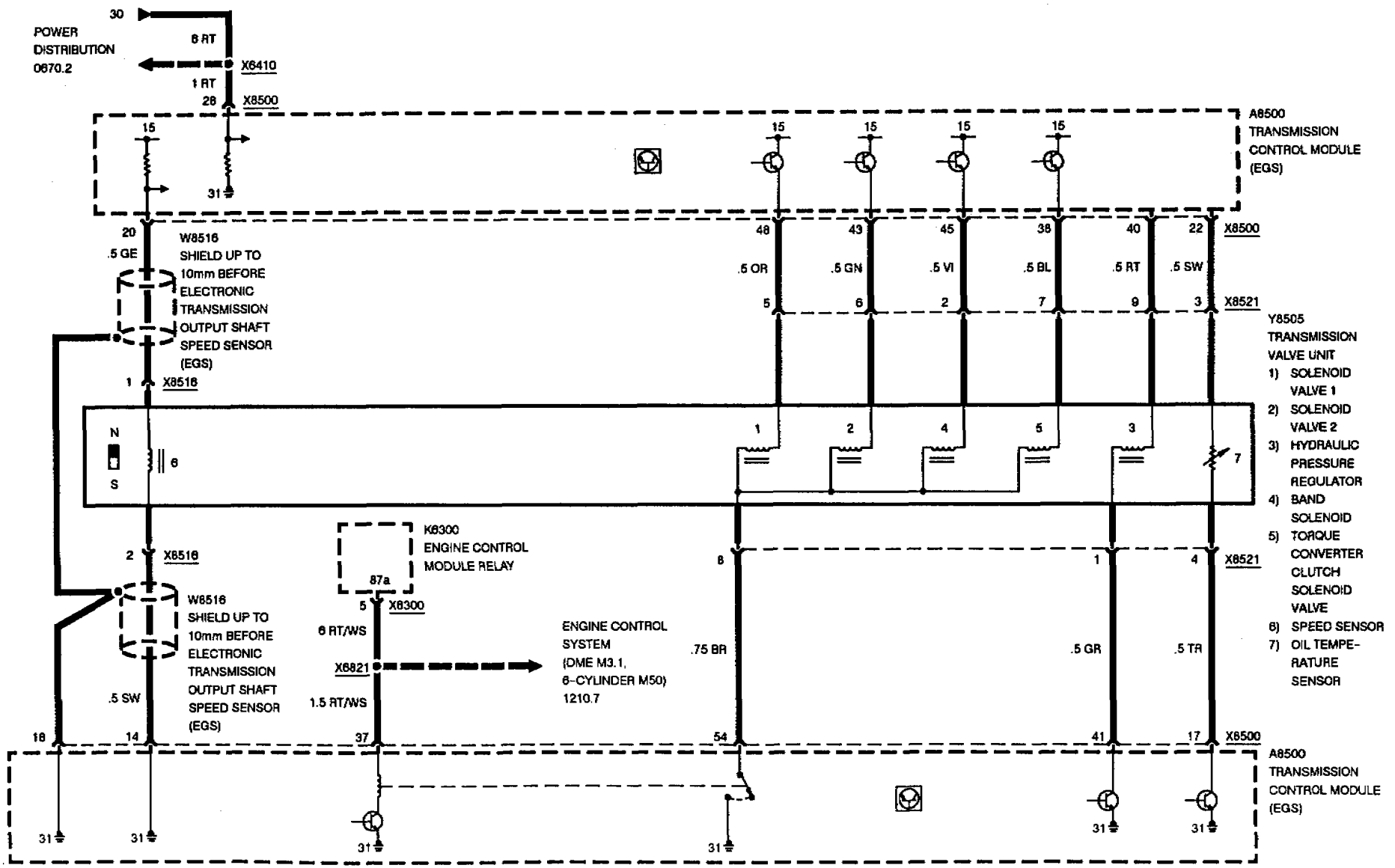
11/92 2460 2 1992



	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	1	1
3	1	0	1	1
2	1	0	1	1
1	0	0	1	0

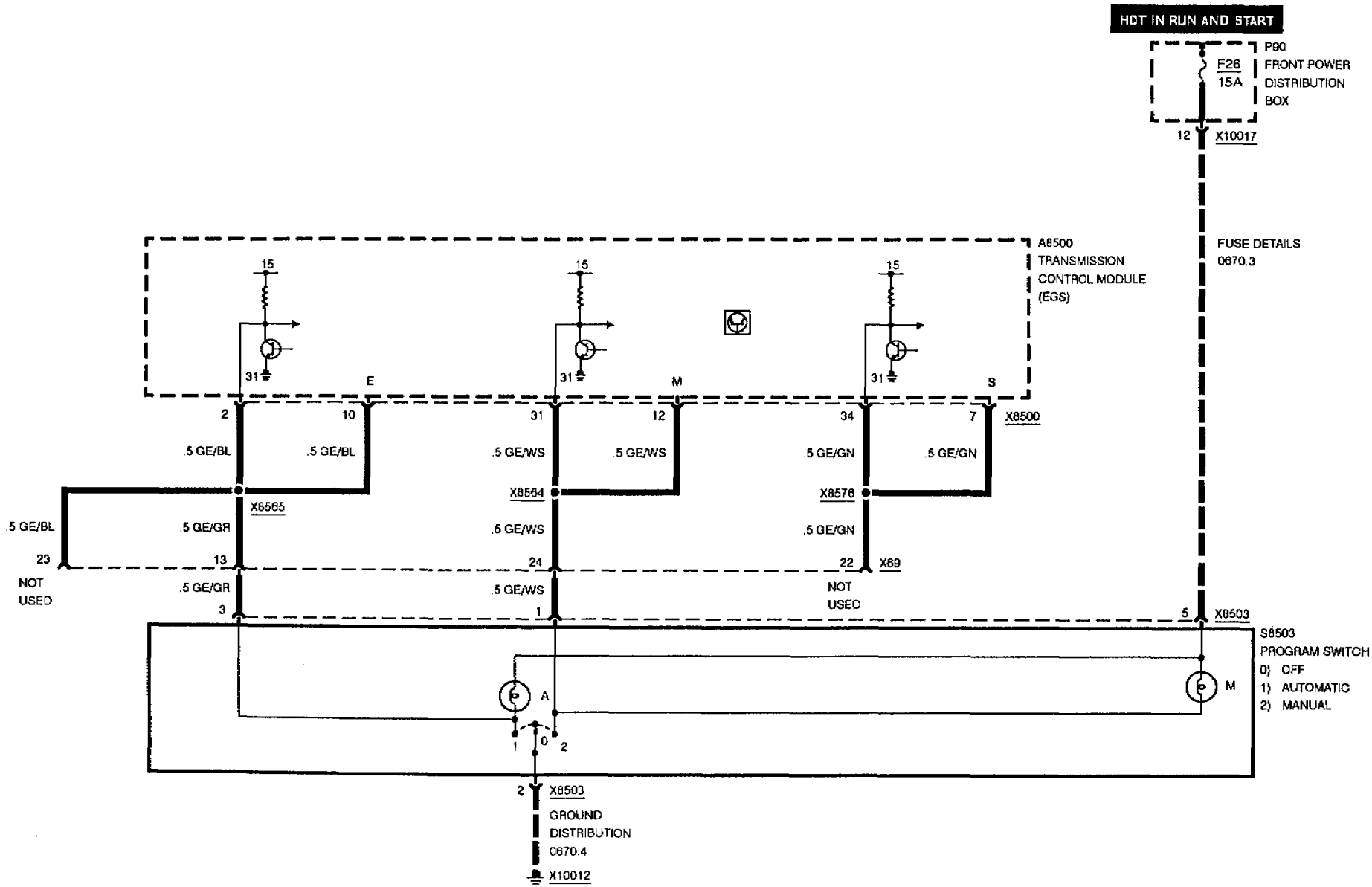
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

POWER, VALVE UNIT

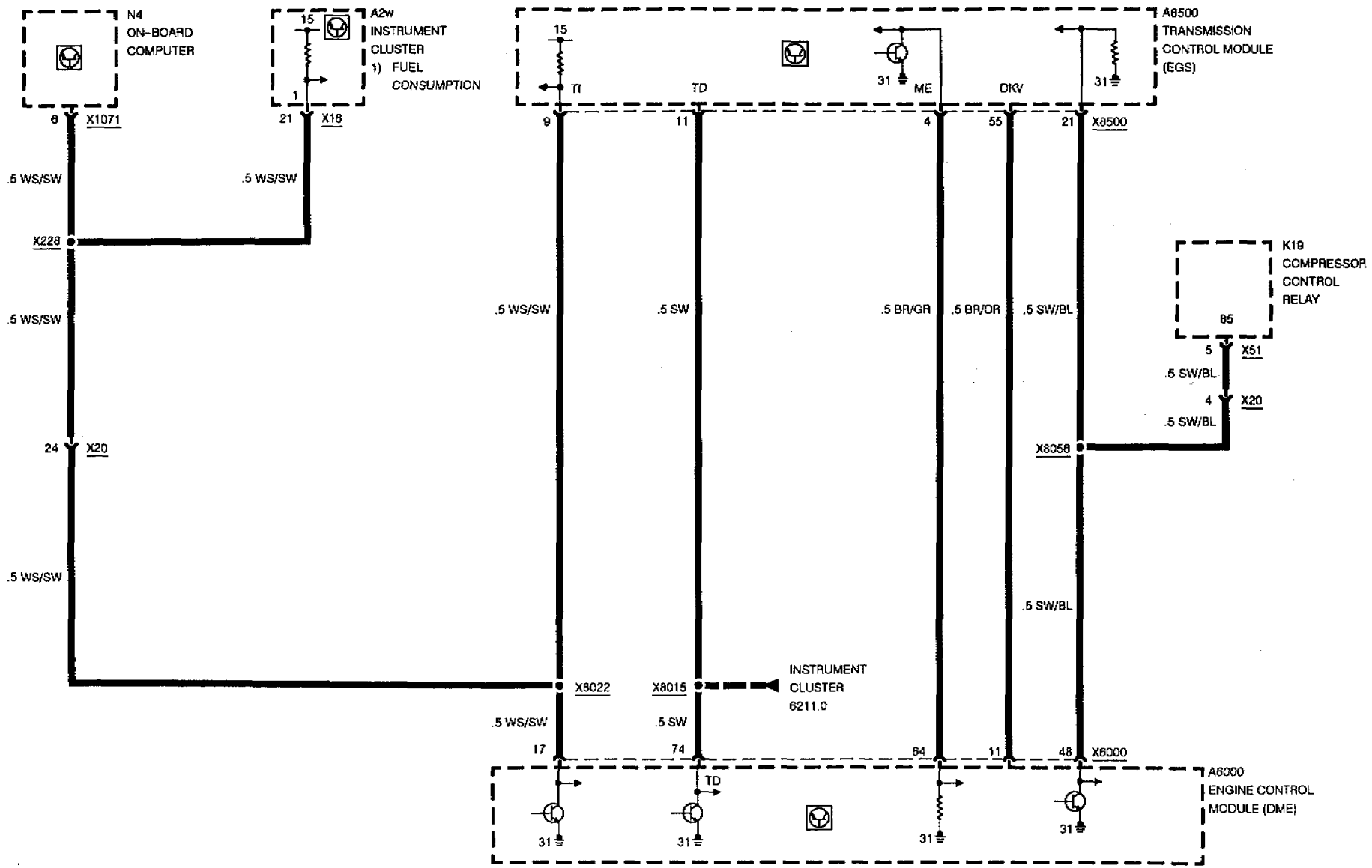


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

PROGRAM SWITCH

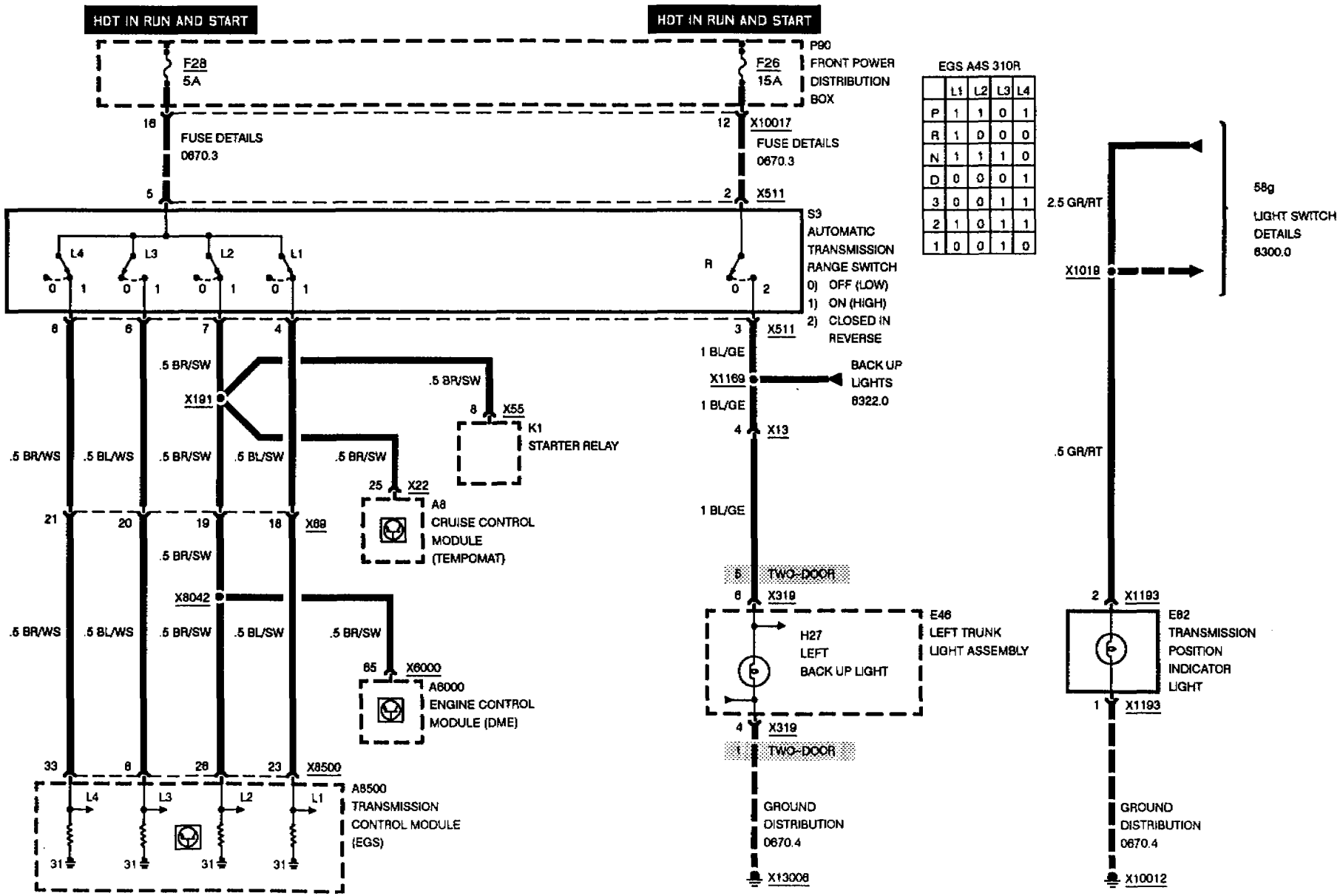


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



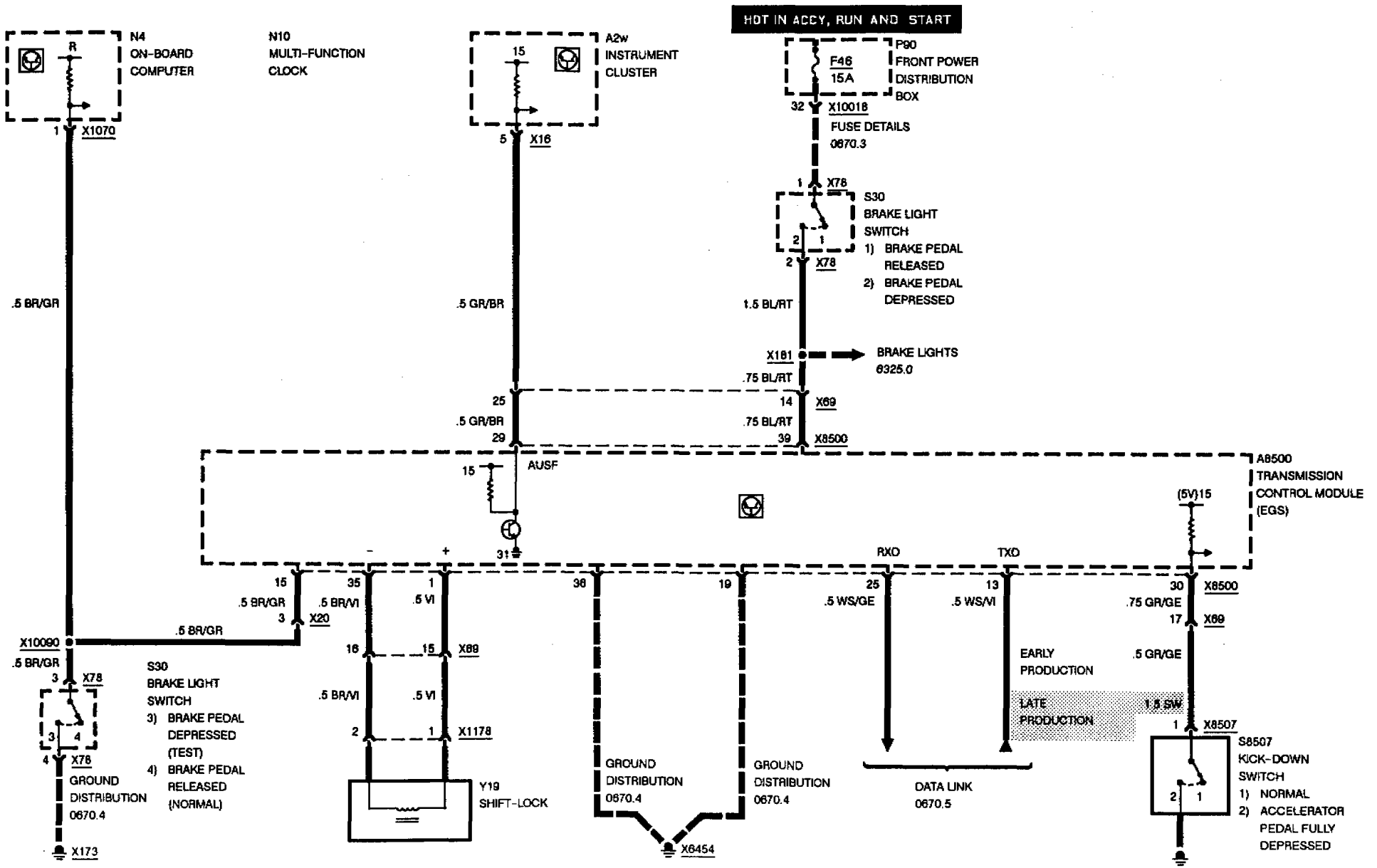
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR SELECTOR SWITCH



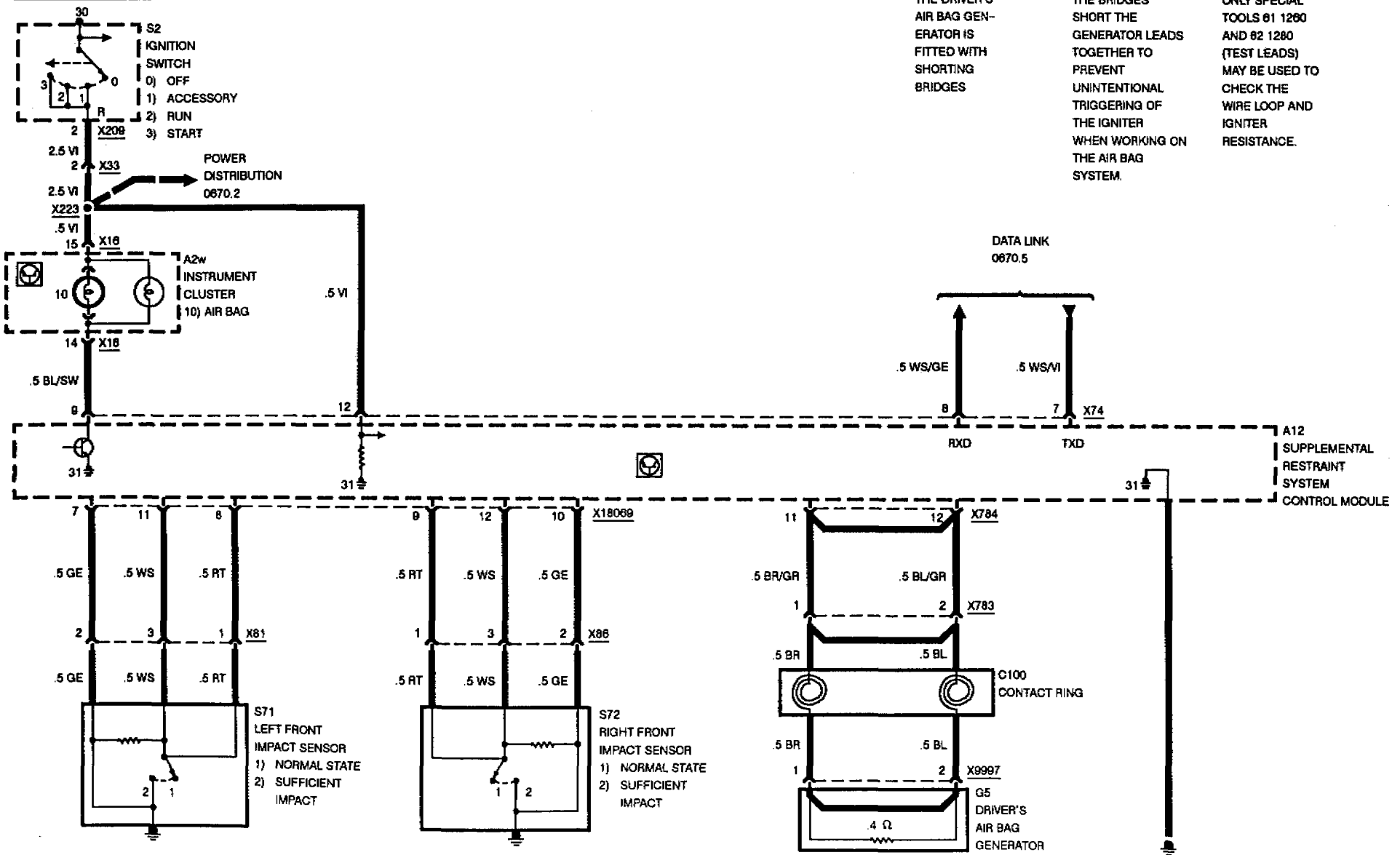
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH



SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

HOT AT ALL TIMES

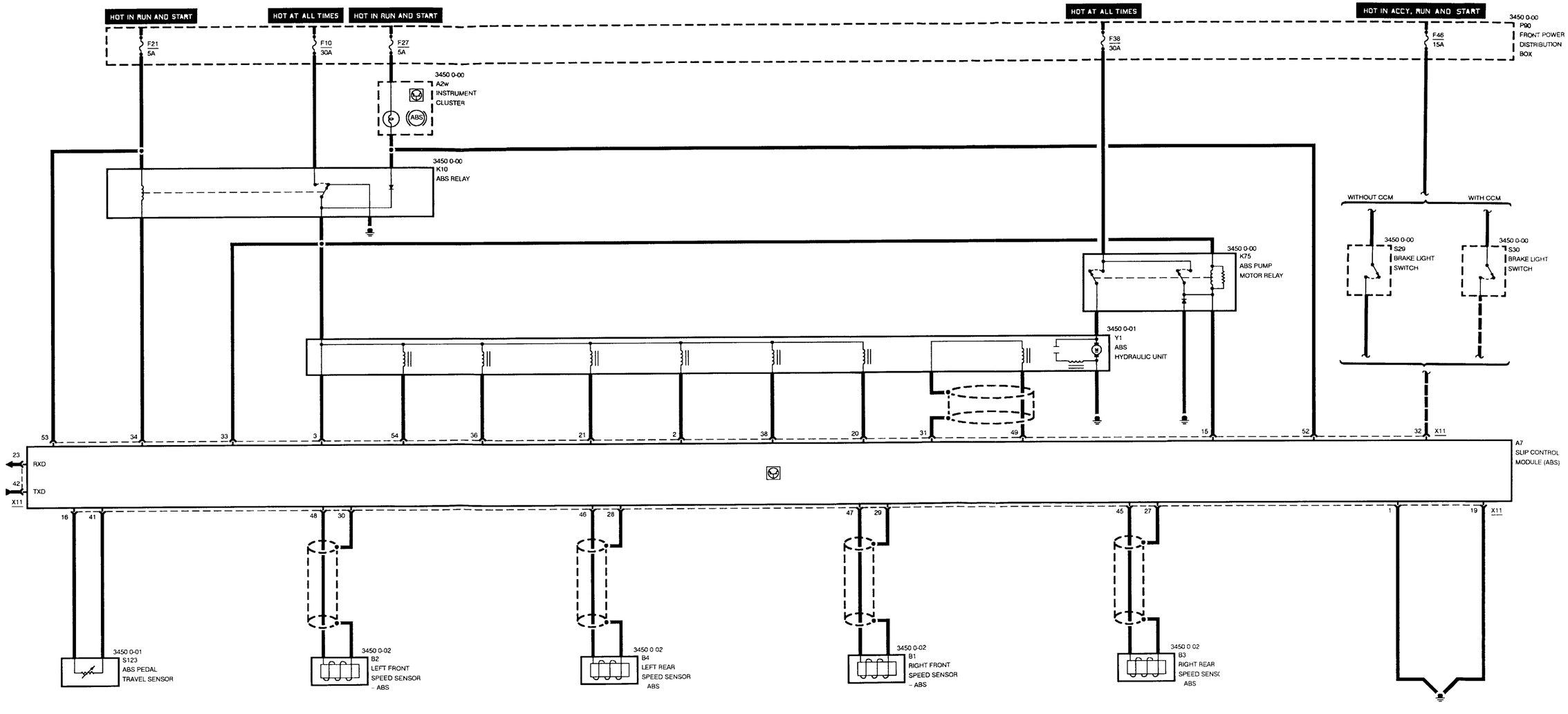


* THE DRIVER'S AIR BAG GENERATOR IS FITTED WITH SHORTING BRIDGES

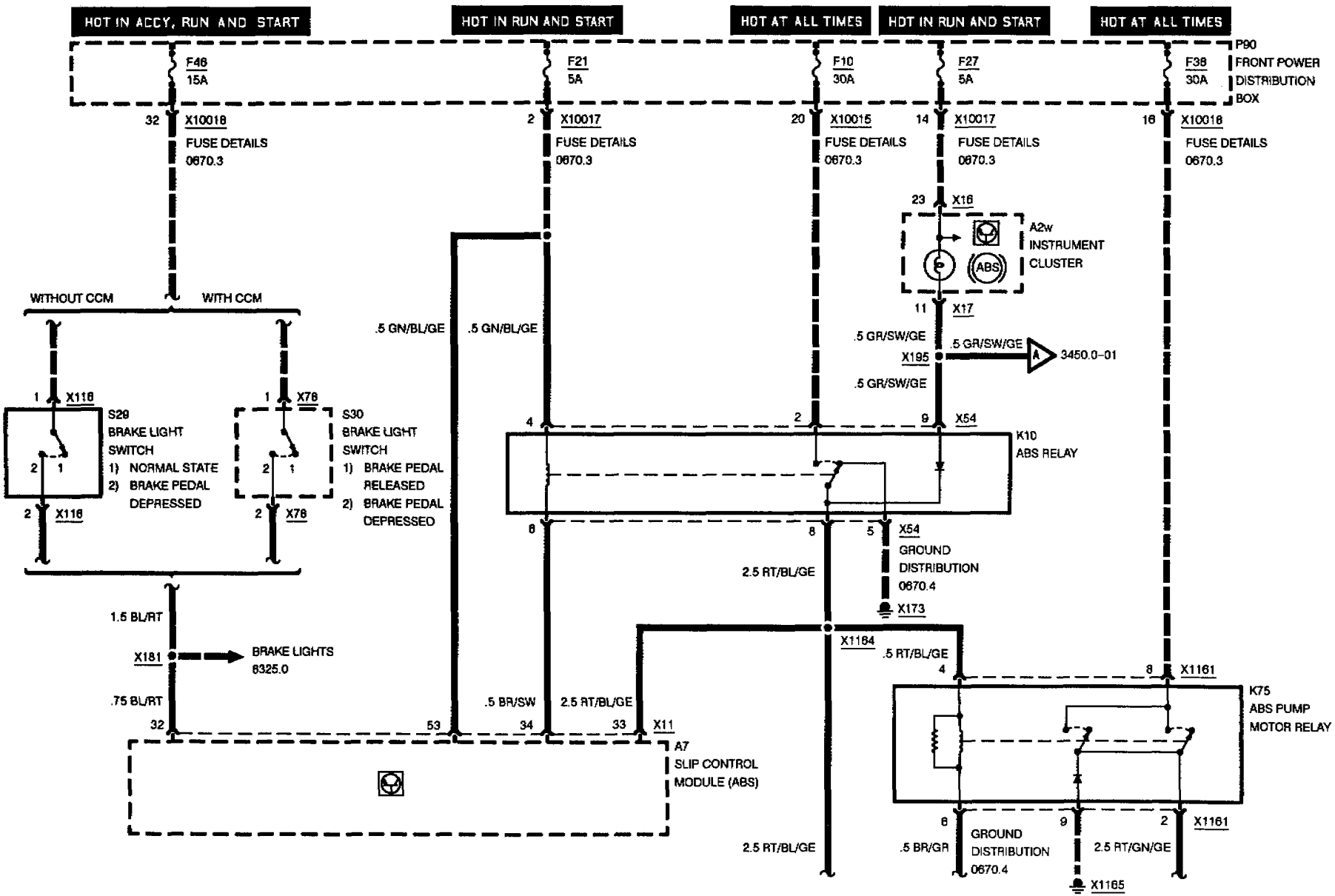
THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

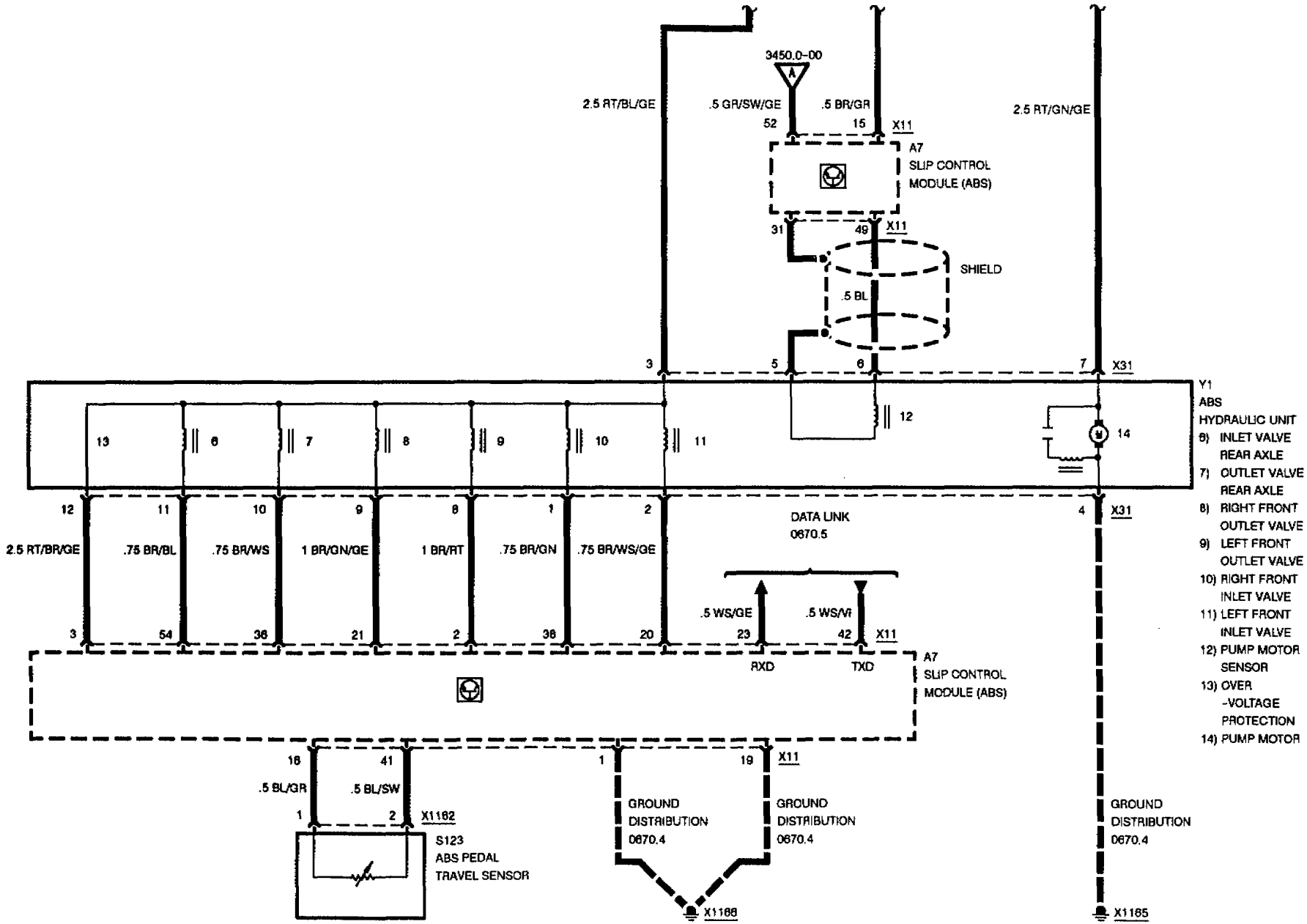
ONLY SPECIAL TOOLS 61 1260 AND 62 1280 (TEST LEADS) MAY BE USED TO CHECK THE WIRE LOOP AND IGNITER RESISTANCE.

11/92 — 3450 0 — 1992

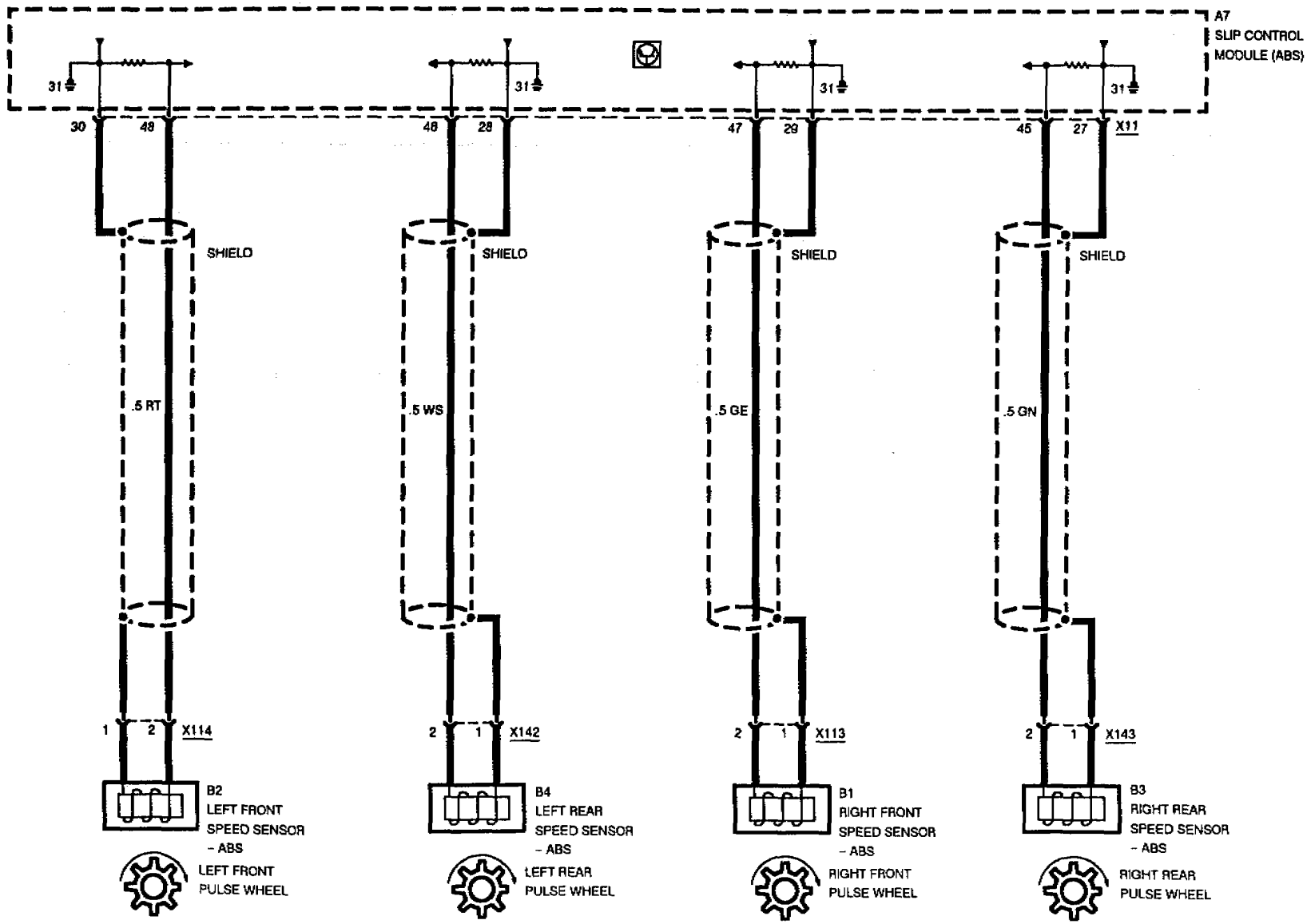


SLIP CONTROL (ABS)



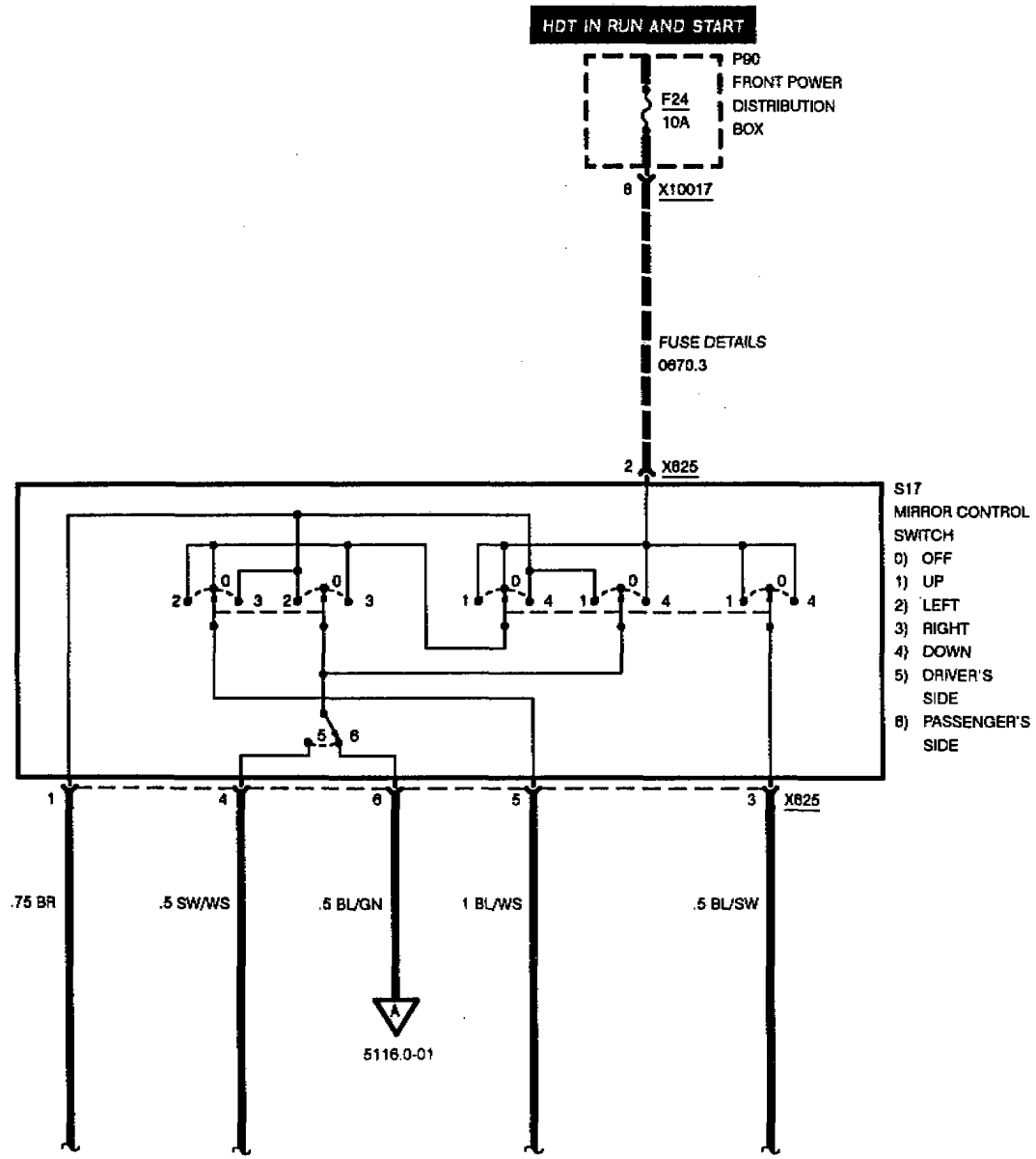

3450.0-00
2.5 RT/BL/GE
.5 GR/SW/GE
.5 BR/GR
2.5 RT/GN/GE
52
15
X11
A7
SLIP CONTROL
MODULE (ABS)
31
49
X11
SHIELD
.5 BL
3
5
6
7
X31
Y1
ABS
HYDRAULIC UNIT
6) INLET VALVE
REAR AXLE
7) OUTLET VALVE
REAR AXLE
8) RIGHT FRONT
OUTLET VALVE
9) LEFT FRONT
OUTLET VALVE
10) RIGHT FRONT
INLET VALVE
11) LEFT FRONT
INLET VALVE
12) PUMP MOTOR
SENSOR
13) OVER
-VOLTAGE
PROTECTION
14) PUMP MOTOR
13
6
7
8
9
10
11
12
14
12
11
10
9
8
1
2
4
X31
2.5 RT/BR/GE
.75 BR/BL
.75 BR/WS
1 BR/GN/GE
1 BR/RT
.75 BR/GN
.75 BR/WS/GE
DATA LINK
0670.5
3
54
36
21
2
36
20
.5 WS/GE
.5 WS/VI
23
42
X11
RXD
TXD
A7
SLIP CONTROL
MODULE (ABS)
16
41
1
19
X11
.5 BL/GR
.5 BL/SW
1
2
X1162
S123
ABS PEDAL
TRAVEL SENSOR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X1166
X1165

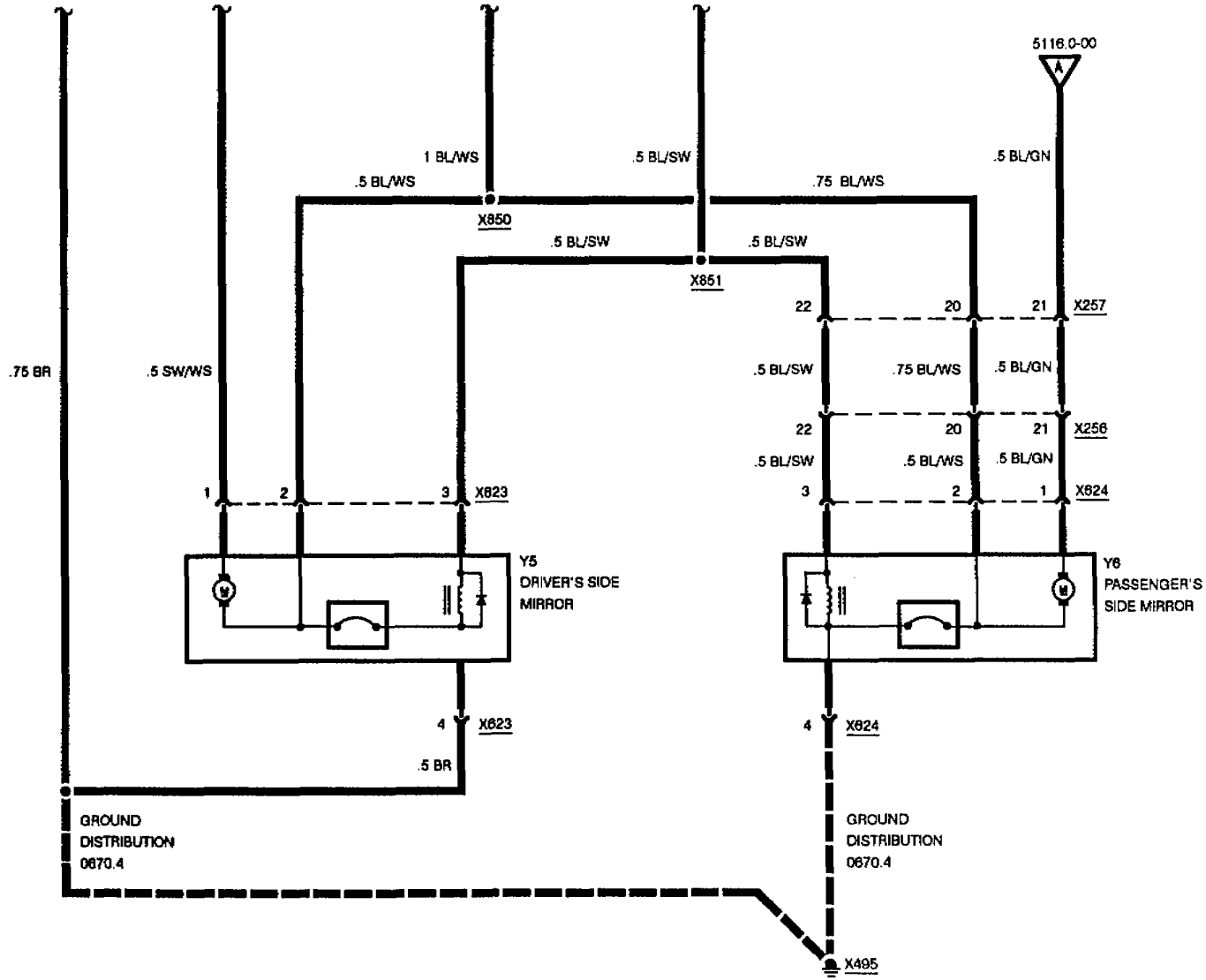
SLIP CONTROL (ABS)



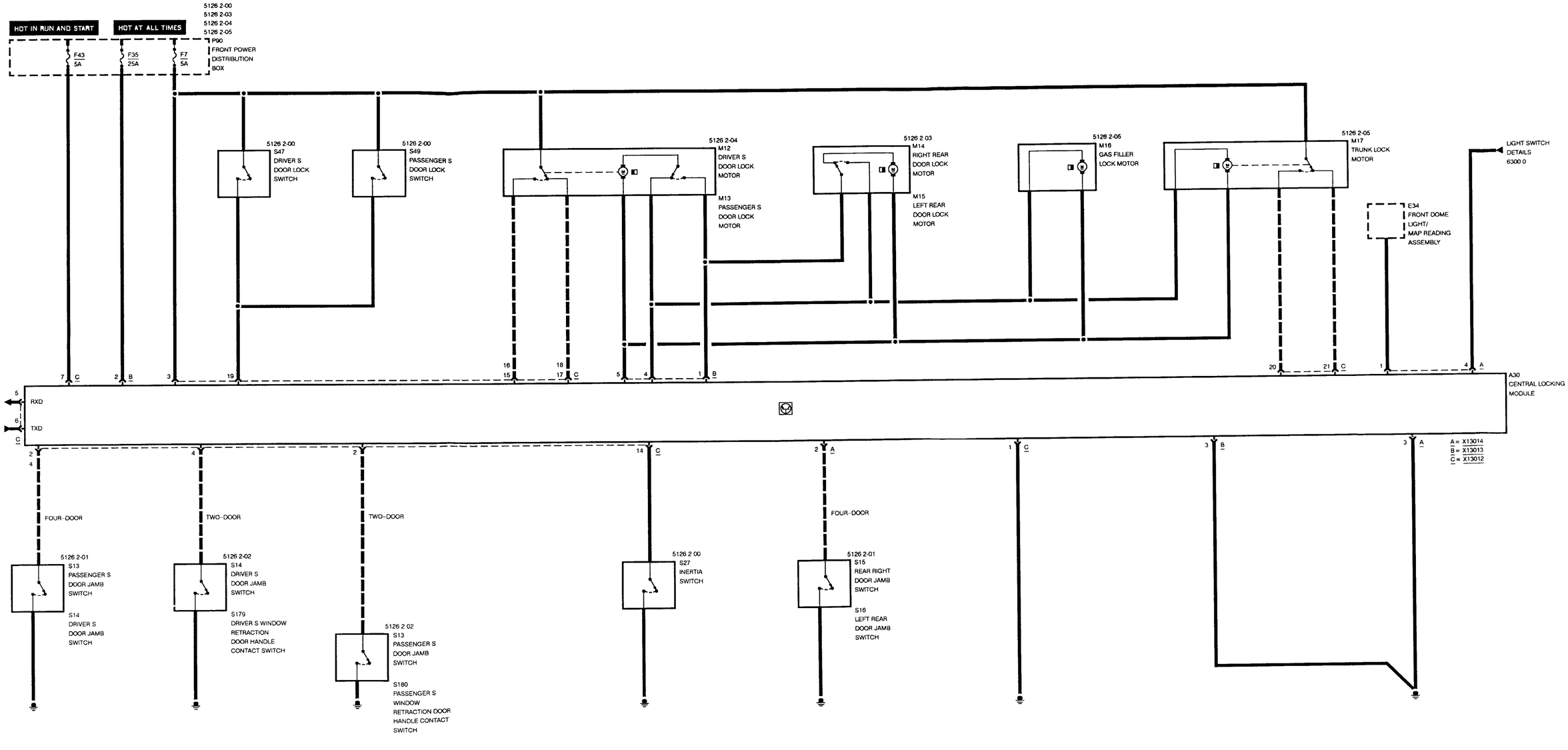
POWER MIRRORS

OUTSIDE MIRROR

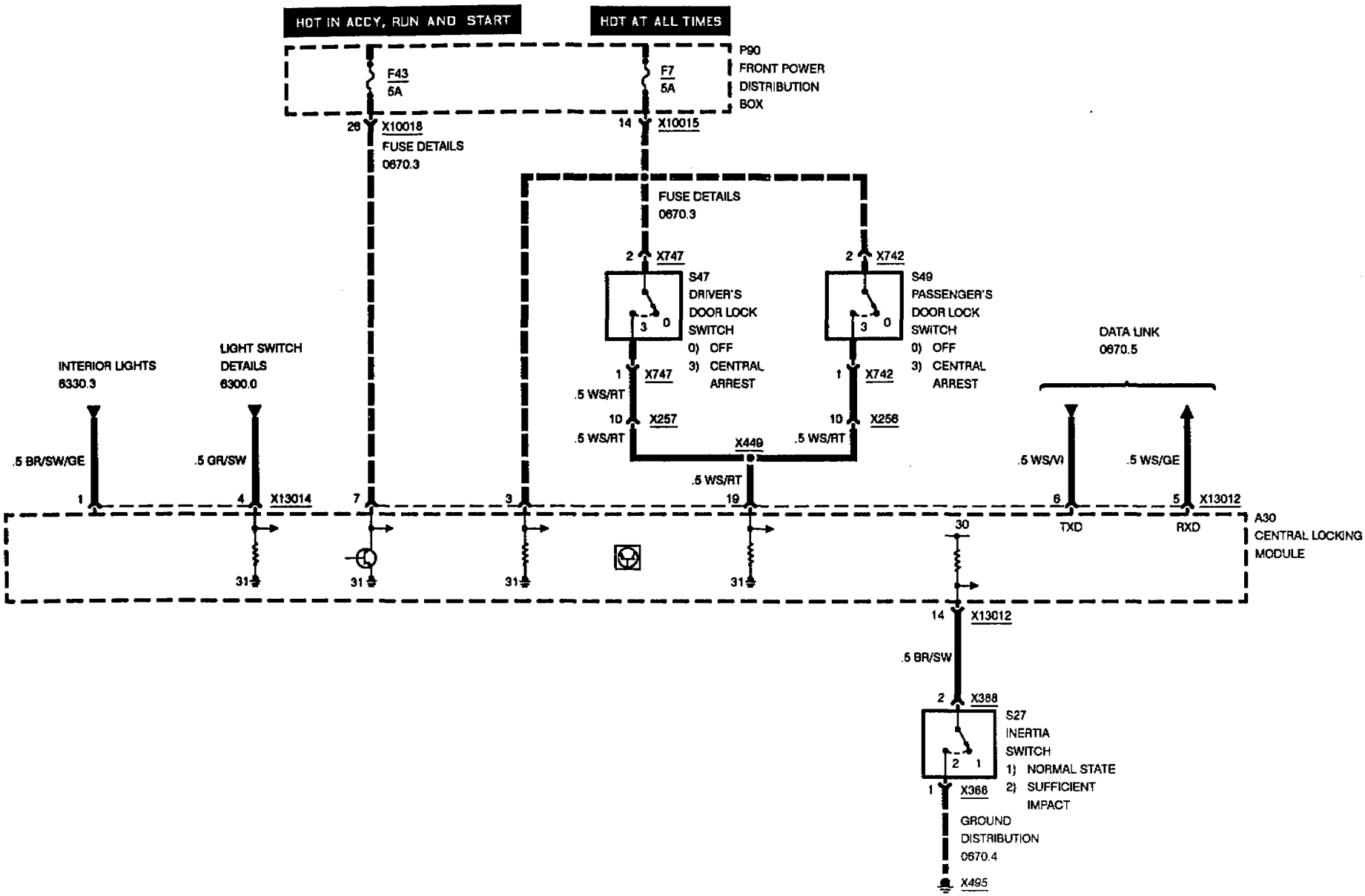



5116.0-00
1 BL/WS
.5 BL/WS
.5 BL/SW
.75 BL/WS
.5 BL/GN
X850
.5 BL/SW
.5 BL/SW
X851
22
20
21
X257
.75 BR
.5 SW/WS
.5 BL/SW
.75 BL/WS
.5 BL/GN
22
20
21
X256
.5 BL/SW
.5 BL/WS
.5 BL/GN
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
.5 BR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X495

11/92 5126 2 1992
11/92 5126 2 1992

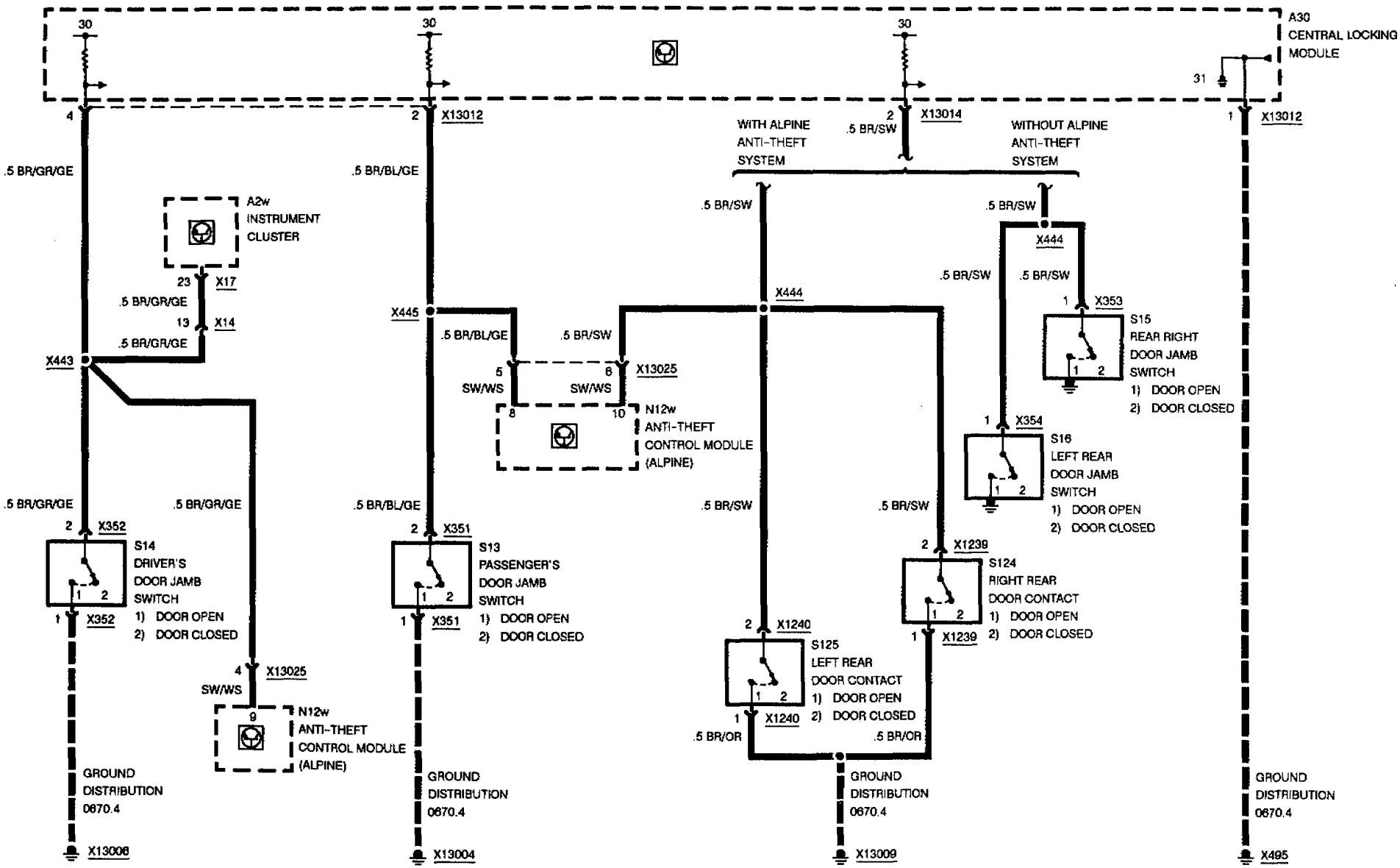


CENTRAL LOCKING MODULE II (ZVM II)



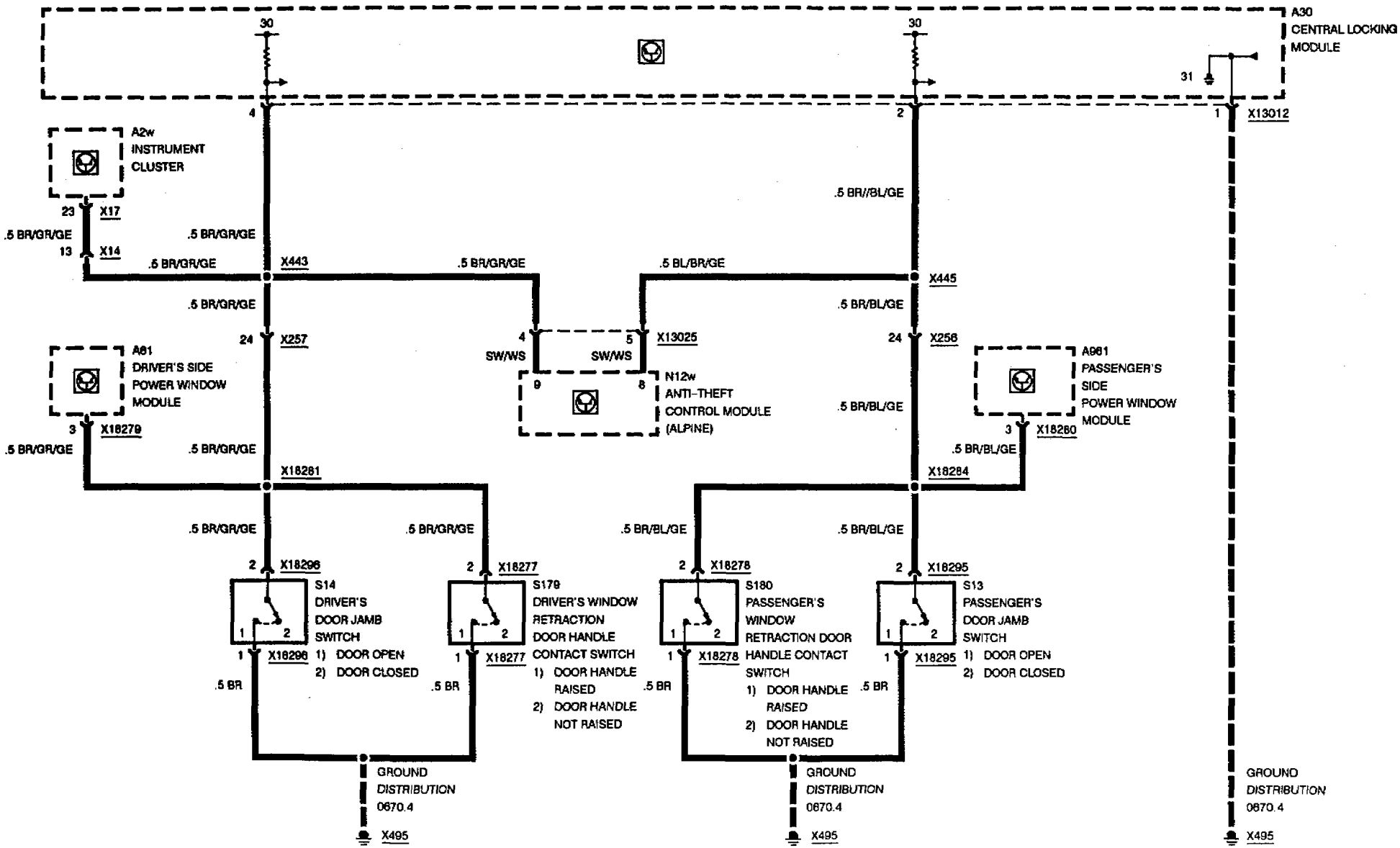
CENTRAL LOCKING MODULE II (ZVM II)

INPUTS - FOUR-DOOR



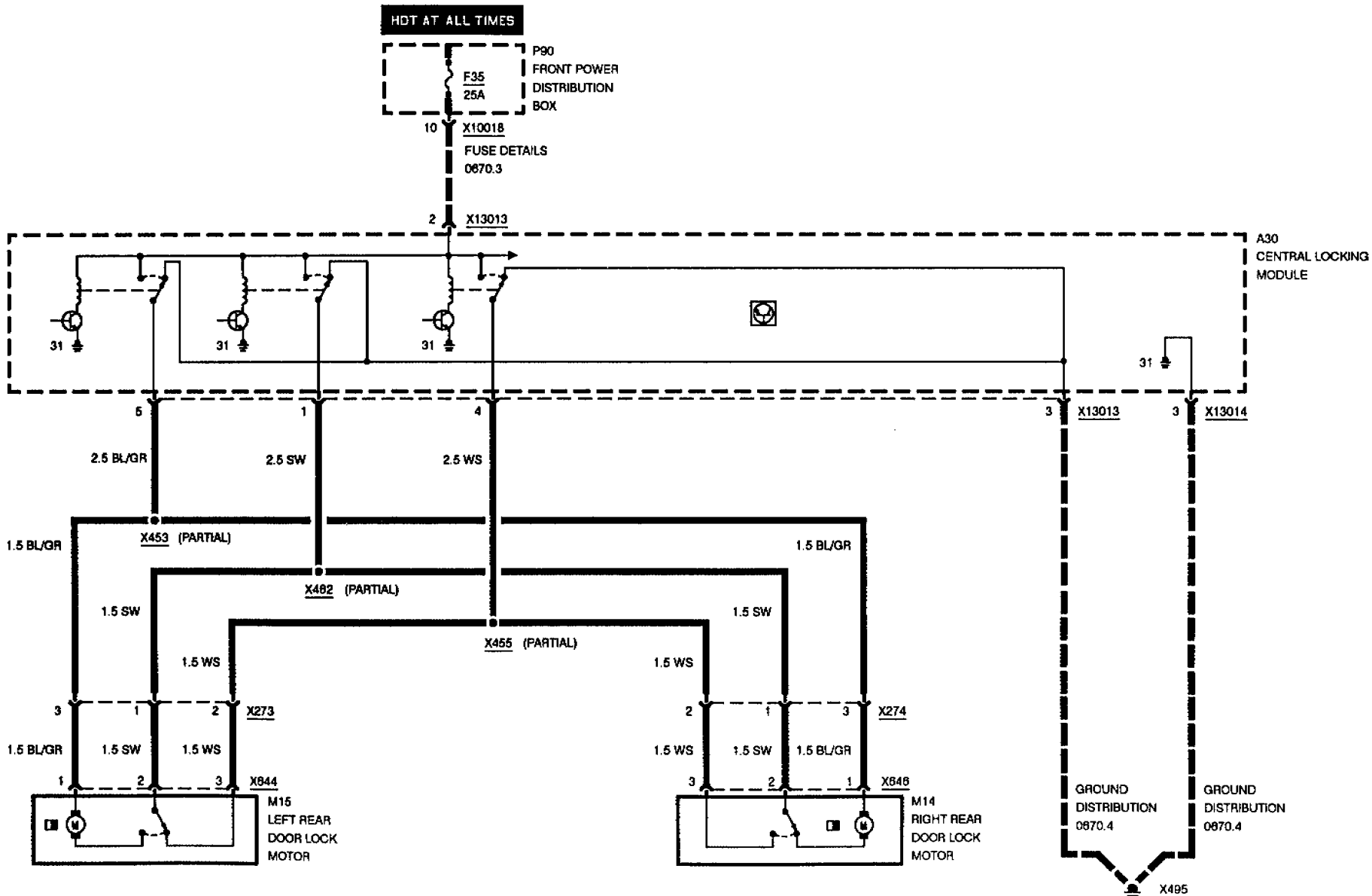
CENTRAL LOCKING MODULE II (ZVM II)

INPUTS - TWO-DOOR



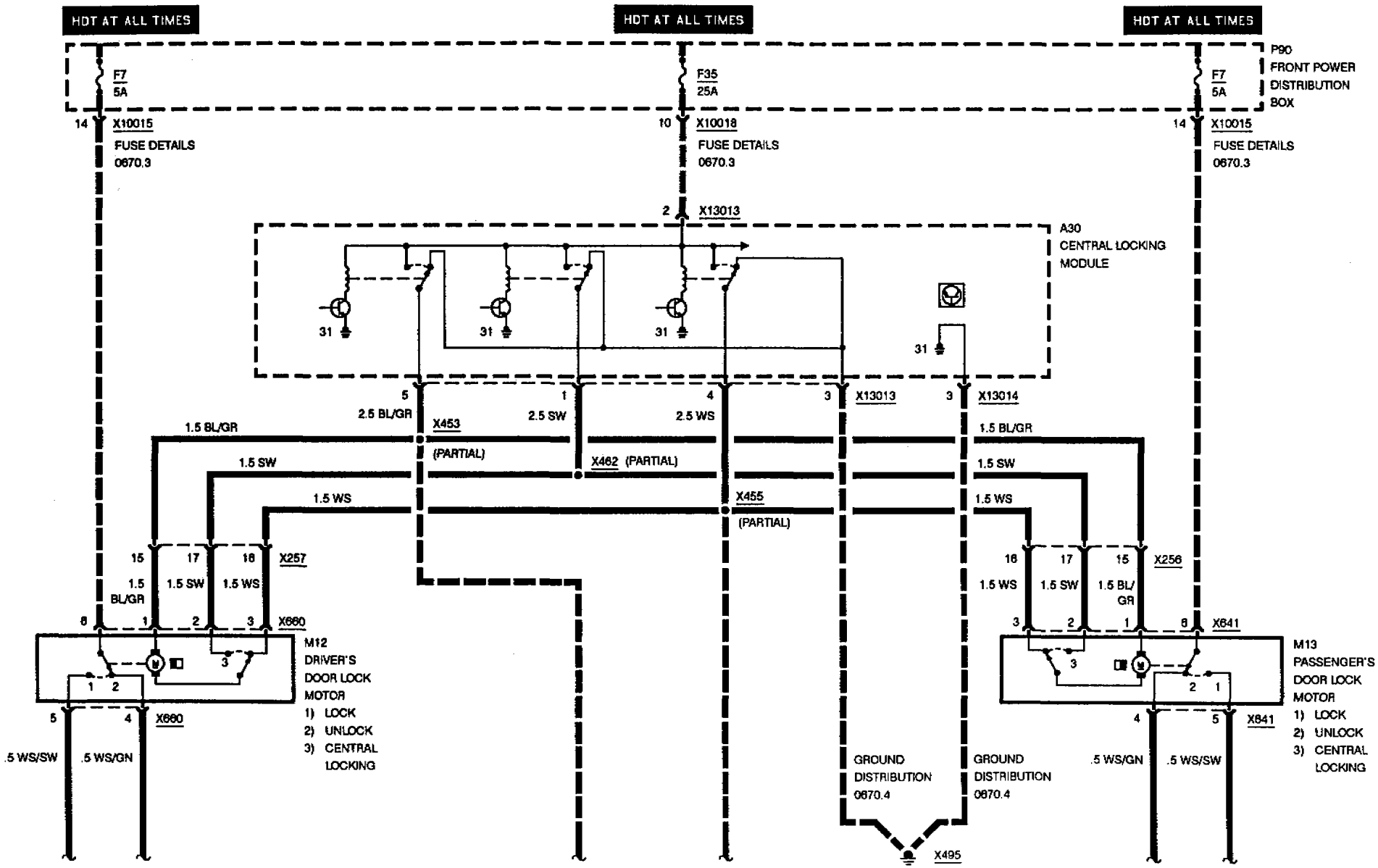
CENTRAL LOCKING MODULE II (ZVM II)

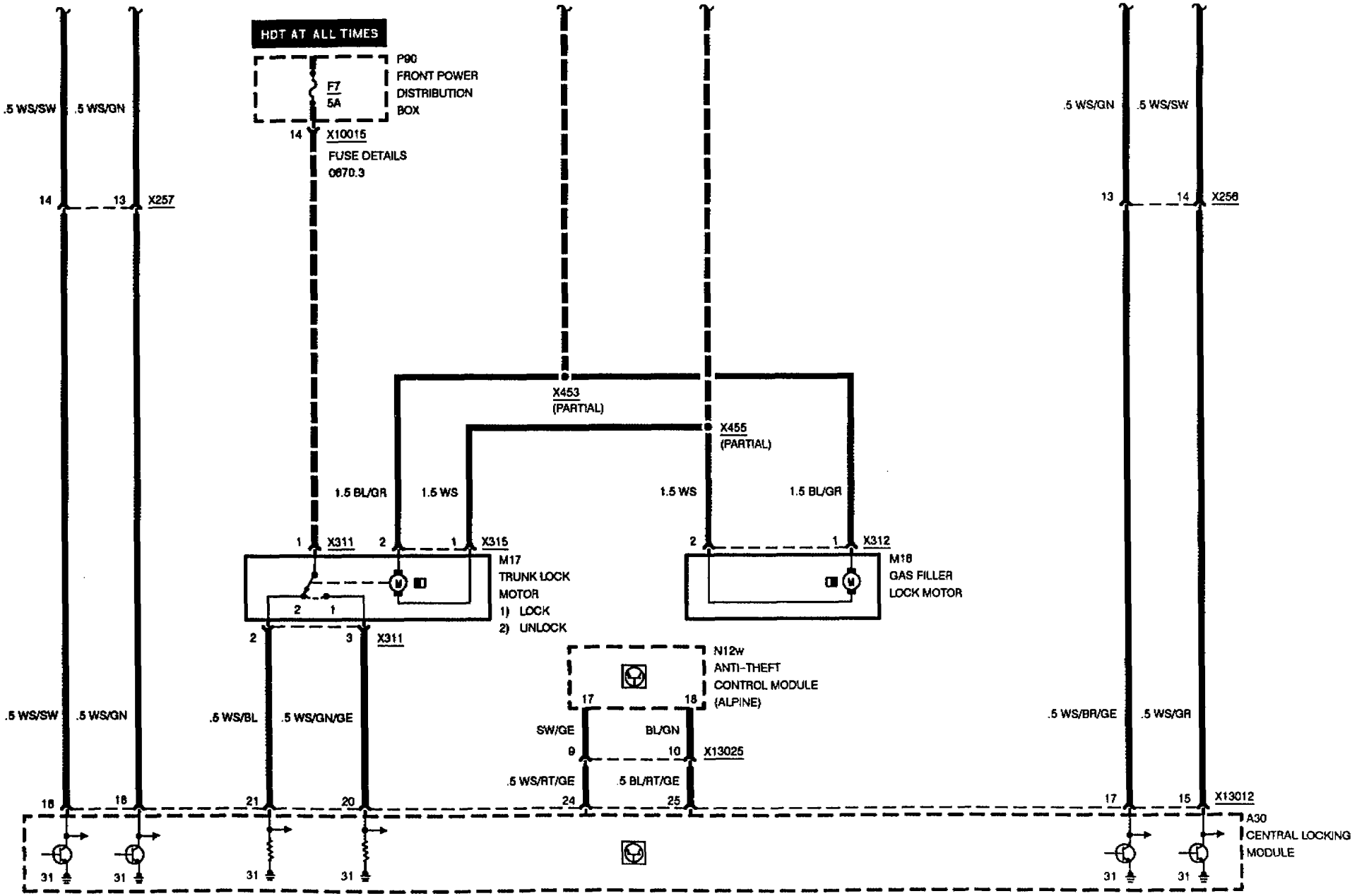
OUTPUT DETAILS



CENTRAL LOCKING MODULE II (ZVM II)

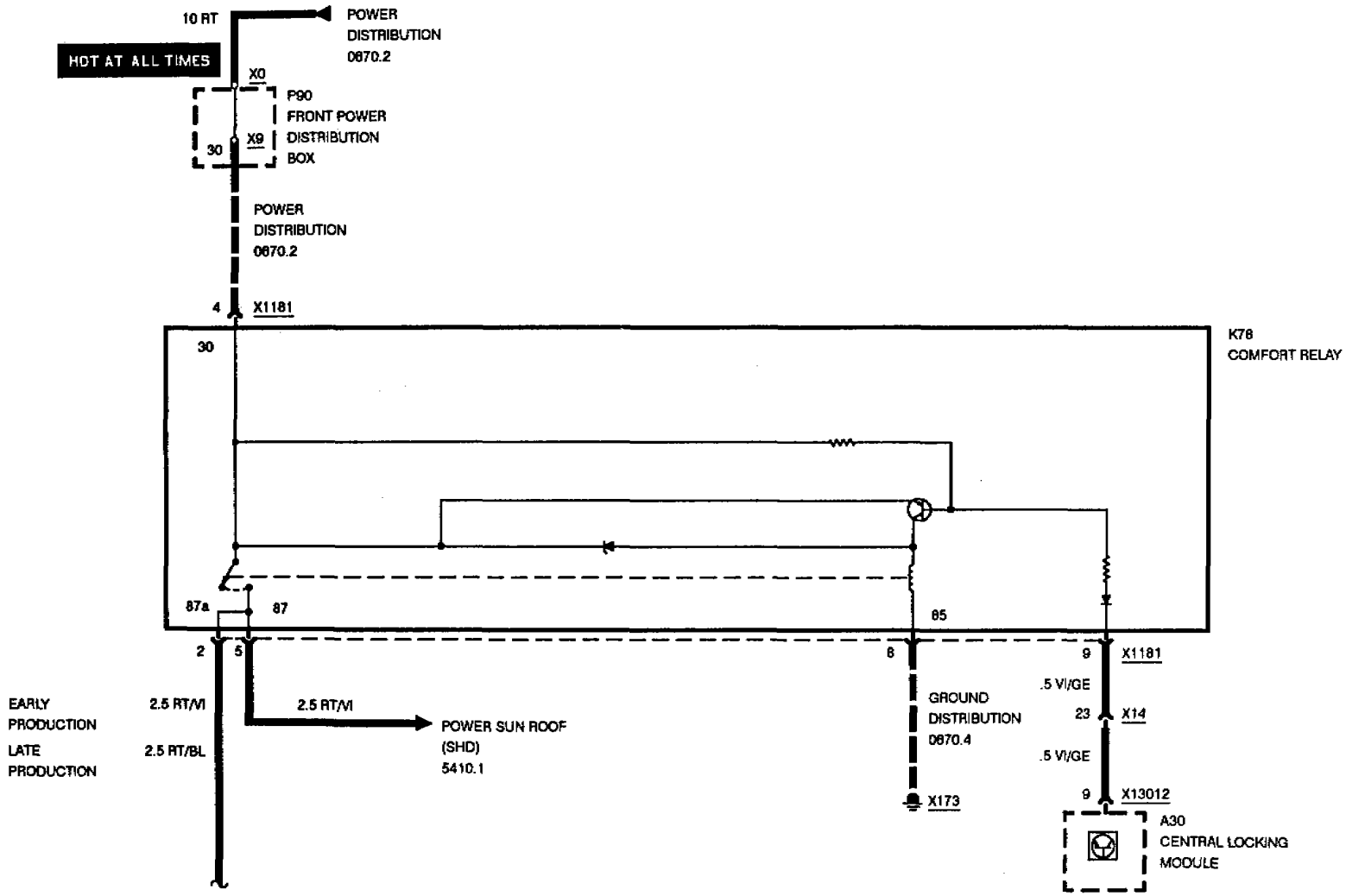
OUTPUT DETAILS

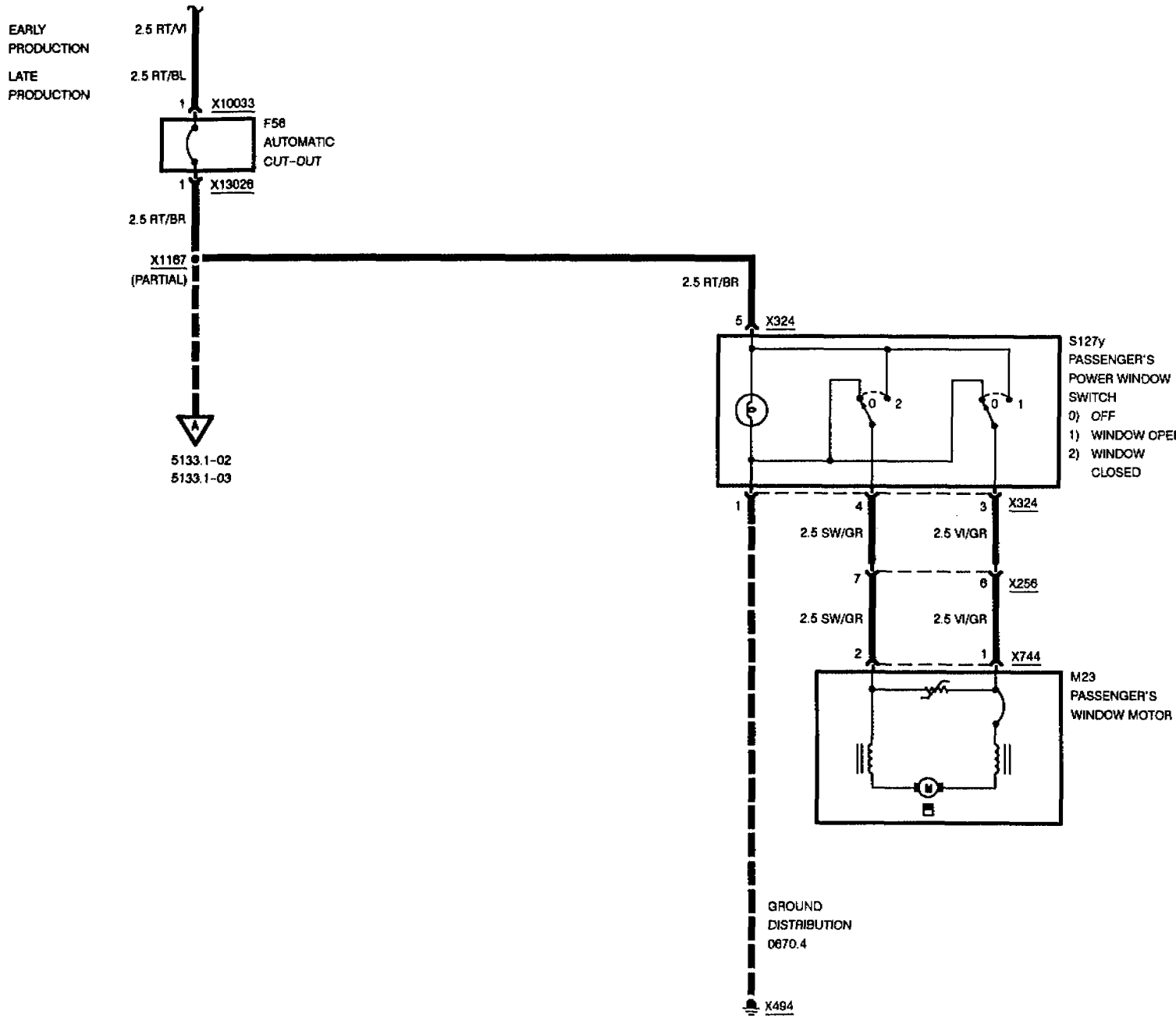



HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F7
5A
14
X10015
FUSE DETAILS
0670.3
.5 WS/SW
.5 WS/GN
14
13
X257
.5 WS/GN
.5 WS/SW
13
14
X256
X453
(PARTIAL)
X455
(PARTIAL)
1.5 BL/GR
1.5 WS
1.5 WS
1.5 BL/GR
1
X311
2
1
X315
2
1
X312
M17
TRUNK LOCK
MOTOR
1) LOCK
2) UNLOCK
M18
GAS FILLER
LOCK MOTOR
2
3
X311
N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
17
18
SW/GE
BL/GN
9
10
X13025
.5 WS/RT/GE
.5 BL/RT/GE
24
25
.5 WS/SW
.5 WS/GN
.5 WS/BL
.5 WS/GN/GE
.5 WS/BR/GE
.5 WS/GR
16
16
21
20
17
15
X13012
A30
CENTRAL LOCKING
MODULE
31
31
31
31
31
31

POWER WINDOWS (FH)

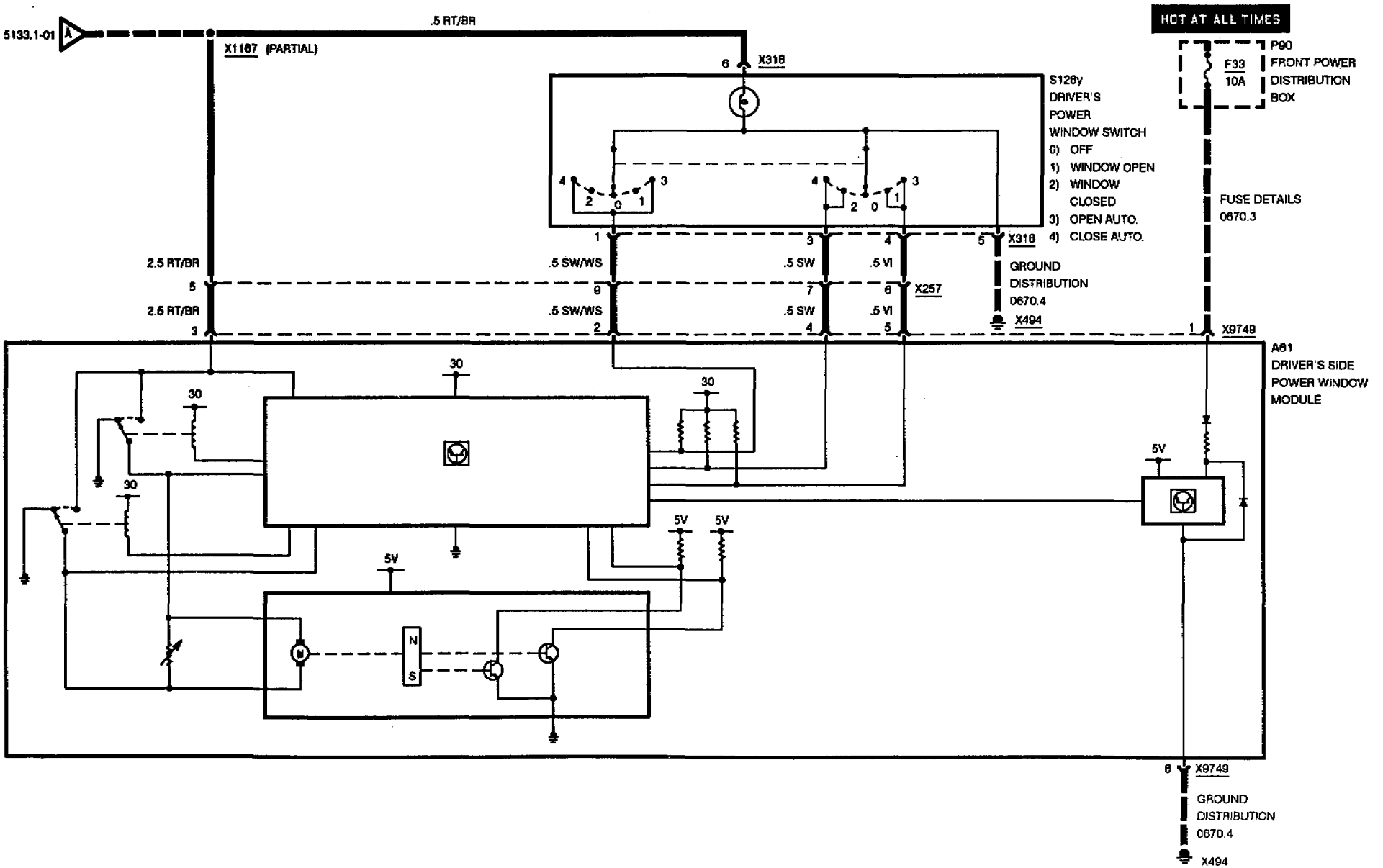
FOUR-DOOR




EARLY PRODUCTION
2.5 RT/VI
LATE PRODUCTION
2.5 RT/BL
1
X10033
F56
AUTOMATIC
CUT-OUT
1
X13026
2.5 RT/BR
X1167
(PARTIAL)
5133.1-02
5133.1-03
2.5 RT/BR
5
X324
S127y
PASSENGER'S
POWER WINDOW
SWITCH
0) OFF
1) WINDOW OPEN
2) WINDOW
CLOSED
1
4
3
X324
2.5 SW/GR
2.5 VI/GR
7
6
X256
2.5 SW/GR
2.5 VI/GR
2
1
X744
M23
PASSENGER'S
WINDOW MOTOR
GROUND
DISTRIBUTION
0670.4
X494

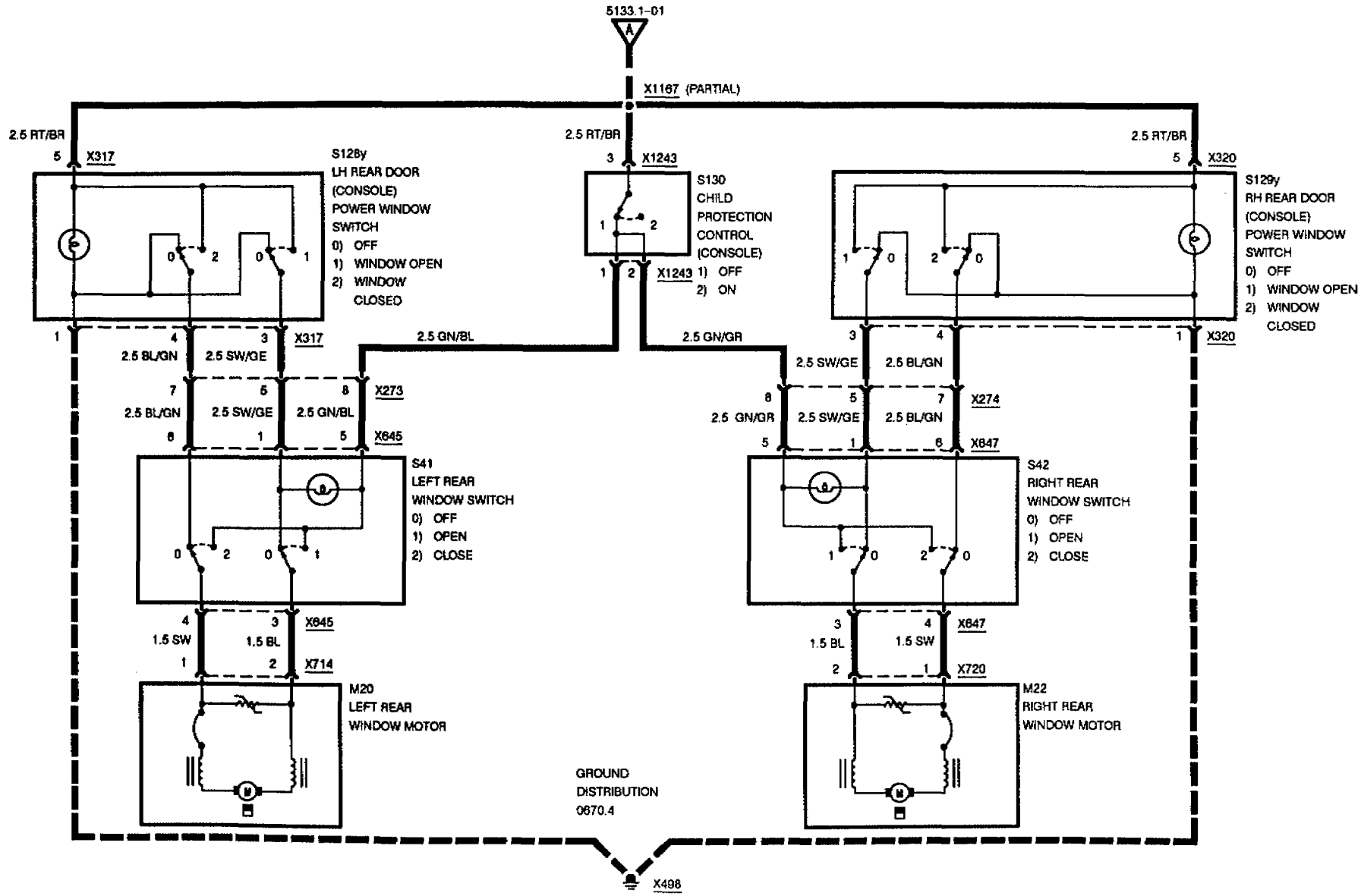
POWER WINDOWS (FH)

DRIVER'S WINDOW - FOUR-DOOR



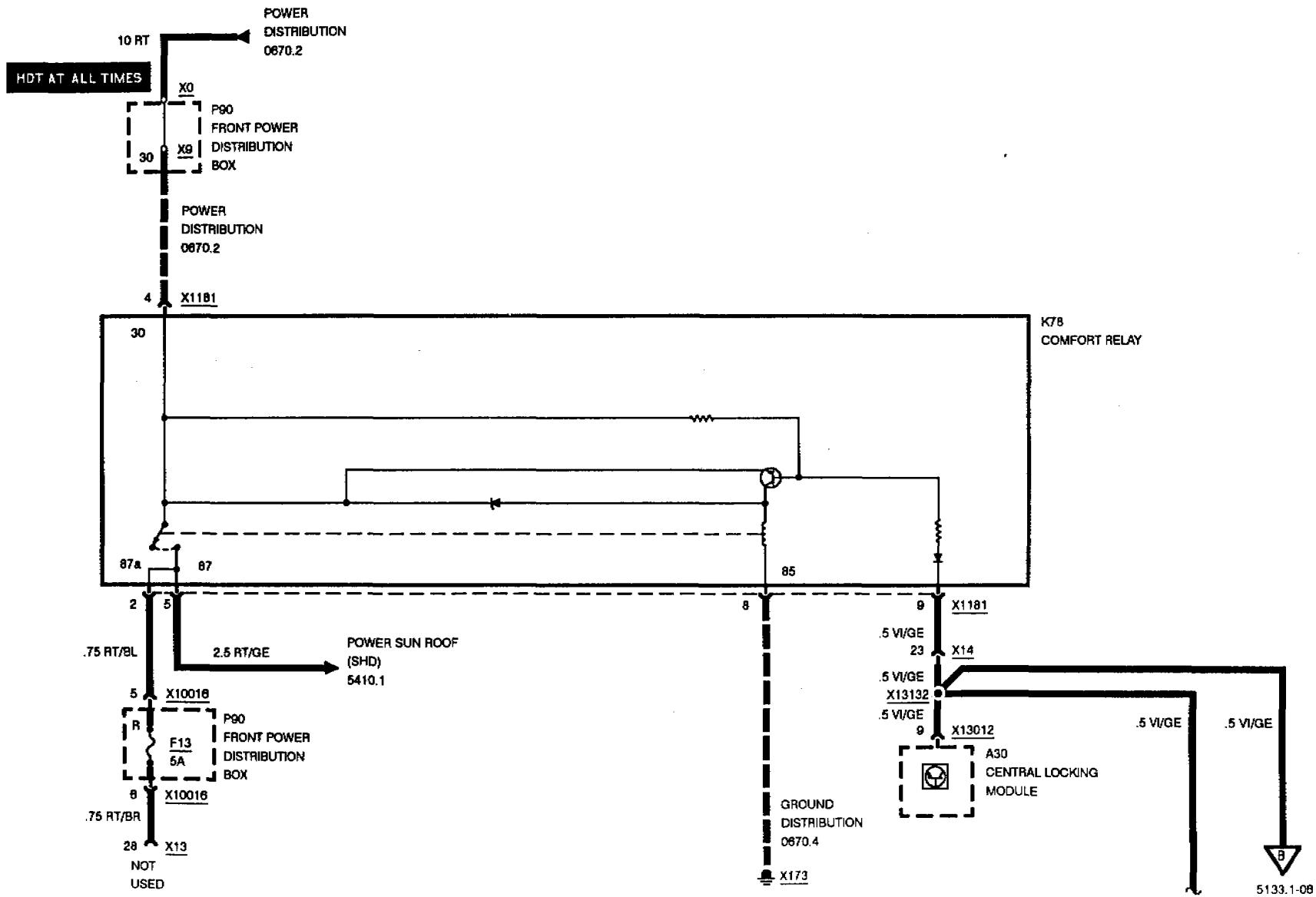
POWER WINDOWS (FH)

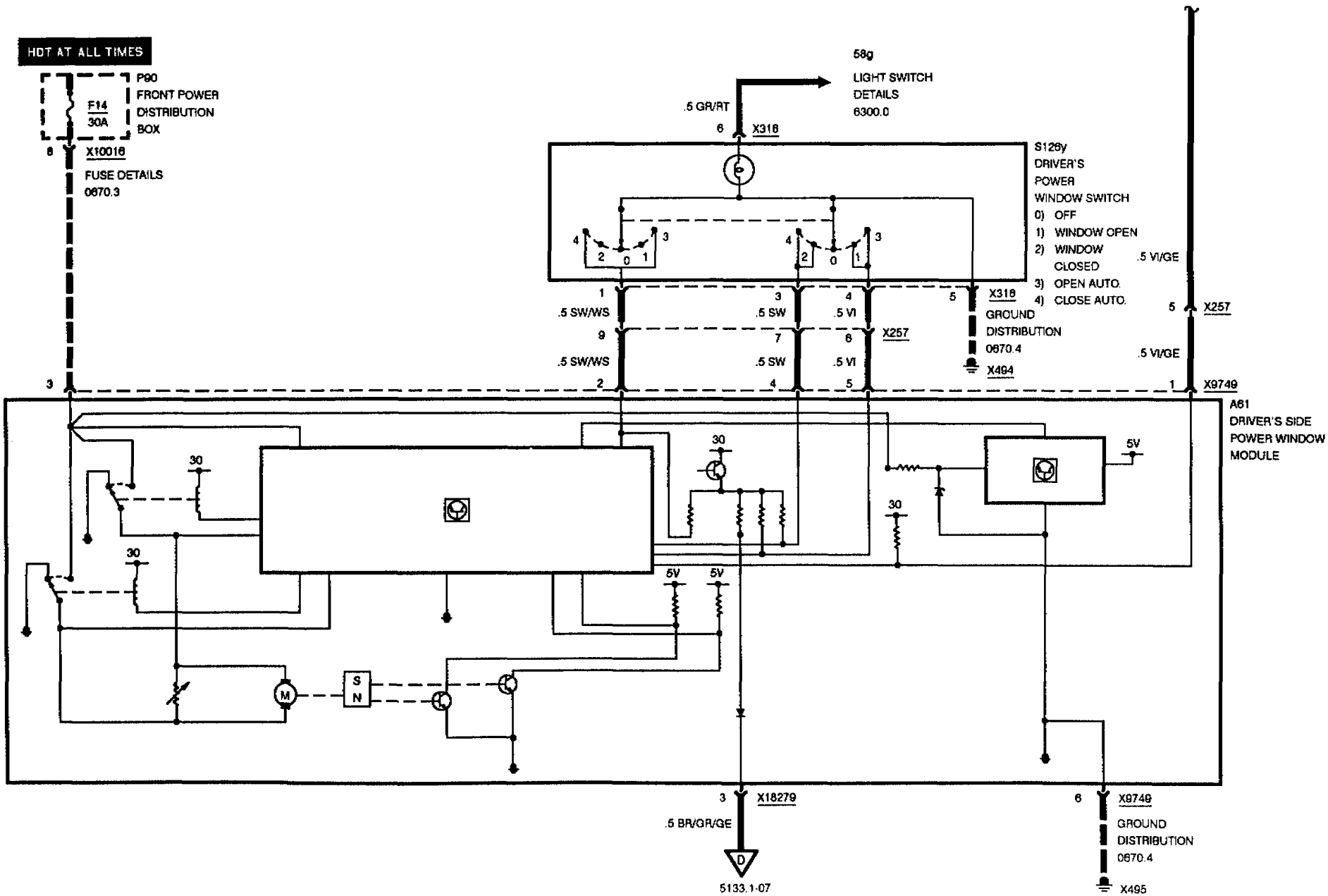
REAR WINDOWS - FOUR-DOOR



POWER WINDOWS (FH)

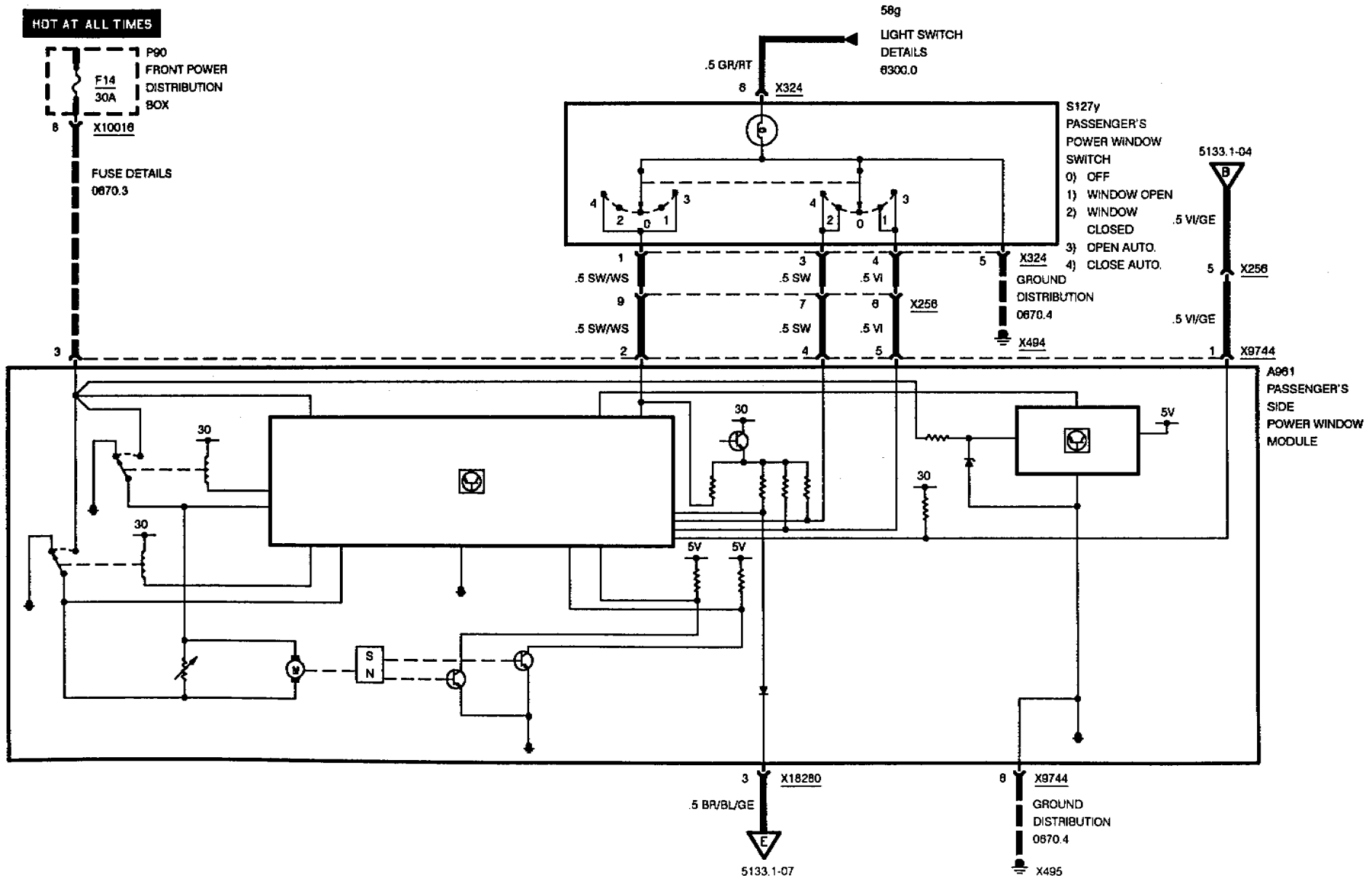
TWO-DOOR




HOT AT ALL TIMES
F14
30A
P90
FRONT POWER
DISTRIBUTION
BOX
8
X10016
FUSE DETAILS
0670.3
58g
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
6
X316
S126y
DRIVER'S
POWER
WINDOW SWITCH
0) OFF
1) WINDOW OPEN
2) WINDOW
CLOSED
3) OPEN AUTO.
4) CLOSE AUTO.
.5 VI/GE
5
X257
1
.5 SW/WS
3
.5 SW
4
.5 VI
5
X316
GROUND
DISTRIBUTION
0670.4
X494
9
.5 SW/WS
7
.5 SW
6
X257
.5 VI
2
4
.5
.5 VI/GE
1
X9749
3
A61
DRIVER'S SIDE
POWER WINDOW
MODULE
30
5V
M
S
N
3
X18279
.5 BR/GR/GE
D
5133.1-07
6
X9749
GROUND
DISTRIBUTION
0670.4
X495

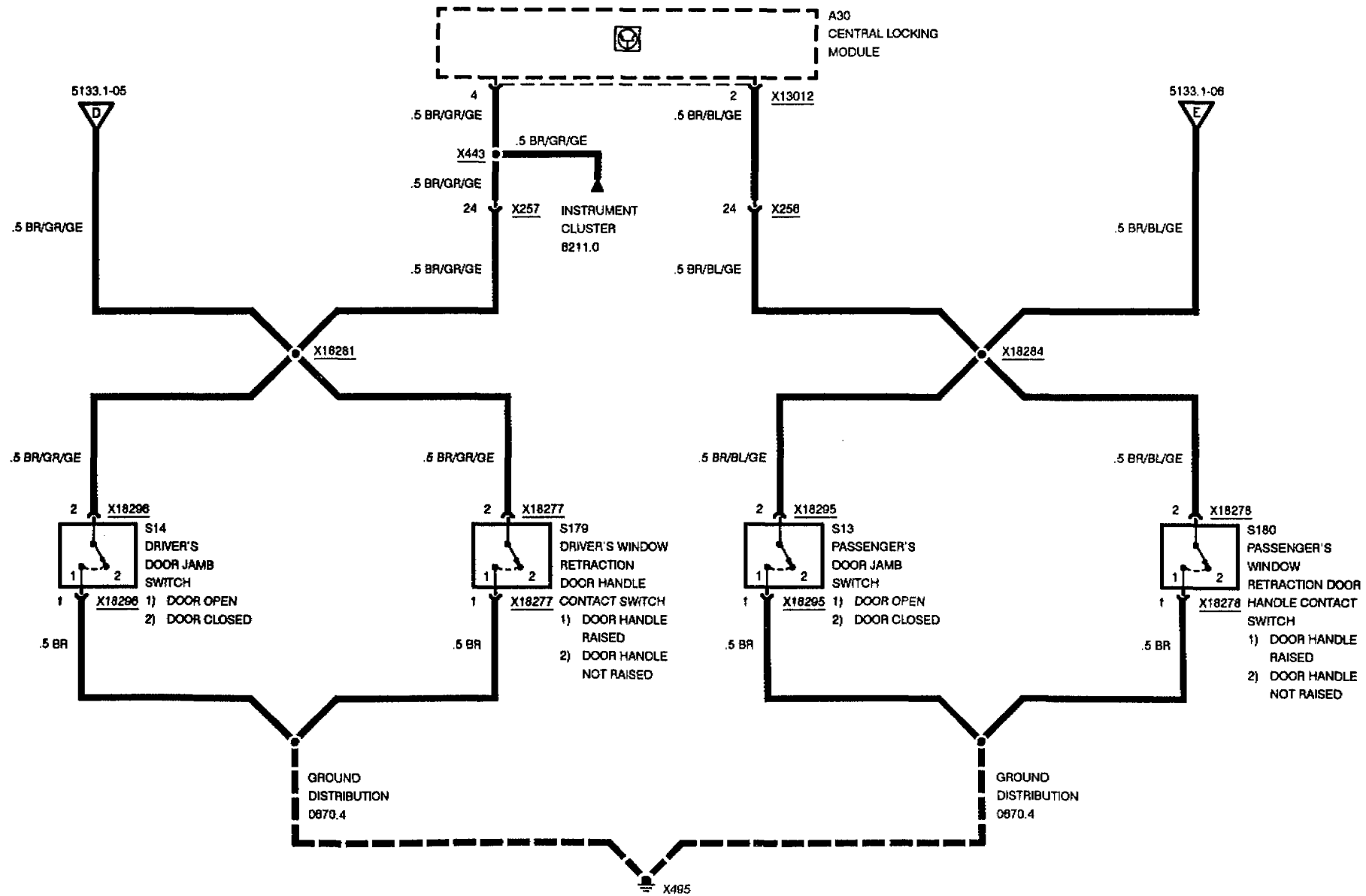
POWER WINDOWS (FH)

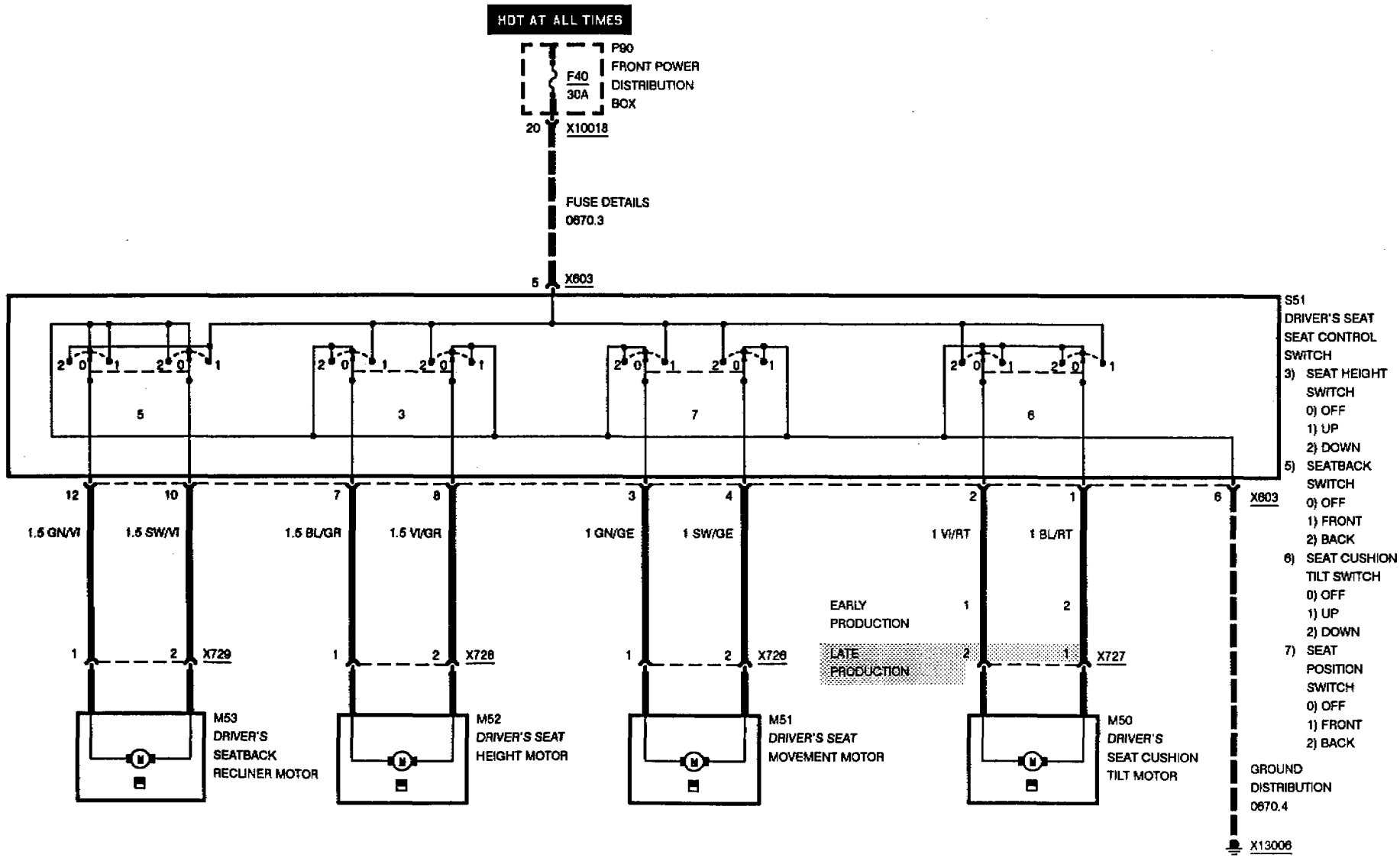
PASSENGER'S SIDE - TWO-DOOR



POWER WINDOWS (FH)

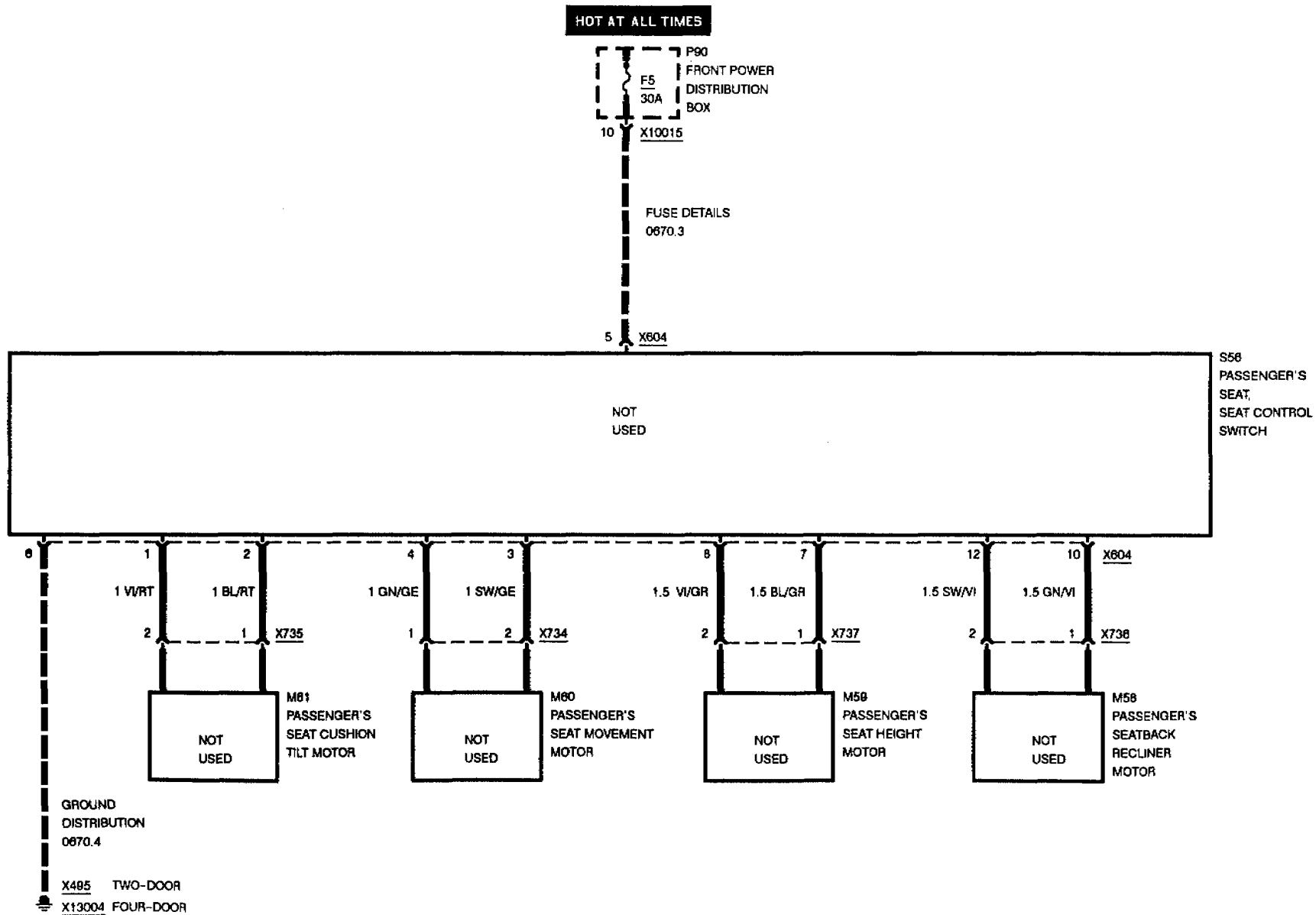
TWO-DOOR



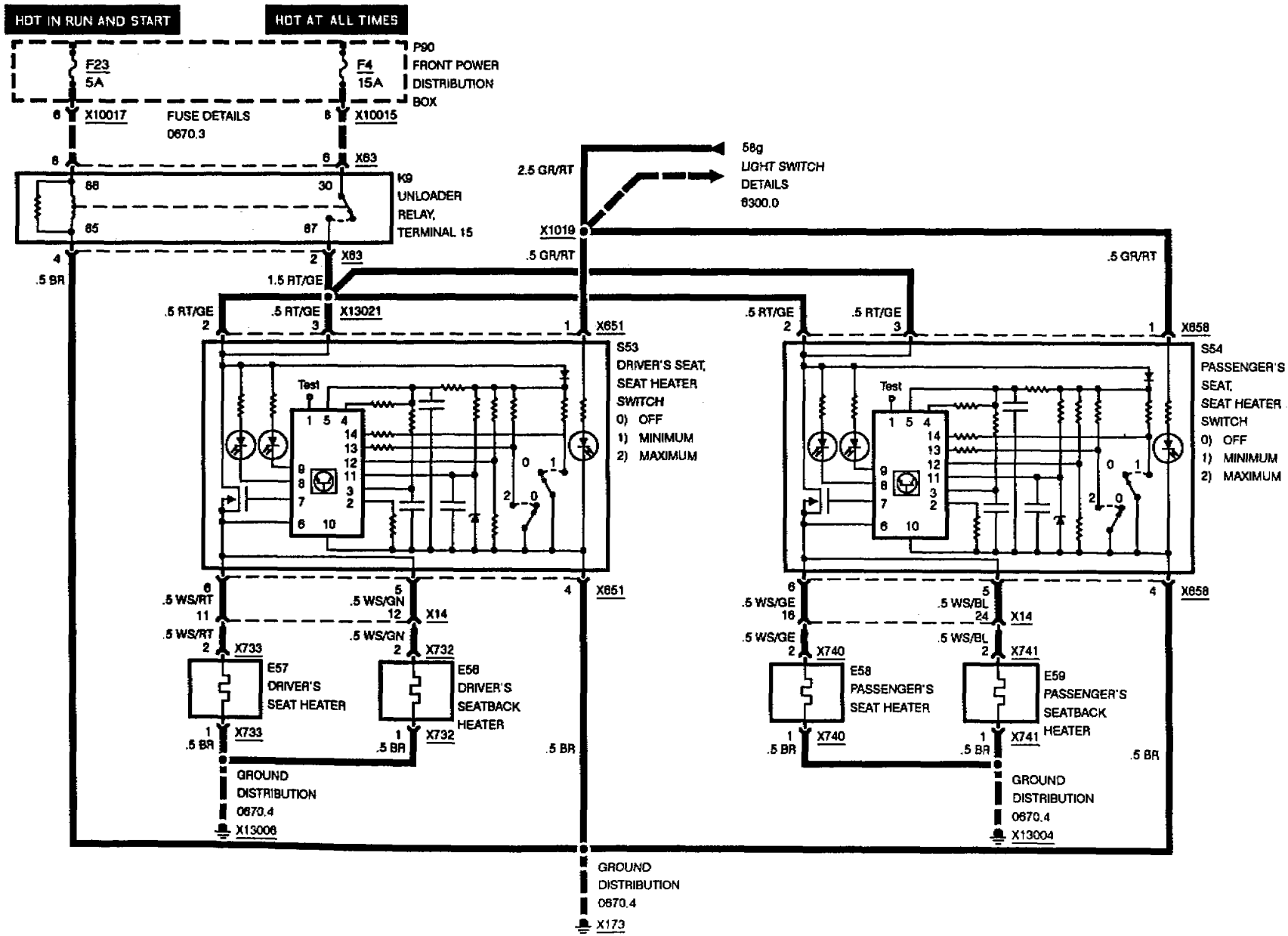

HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F40
30A
20
X10018
FUSE DETAILS
0670.3
5
X603
S51
DRIVER'S SEAT SEAT CONTROL SWITCH
3) SEAT HEIGHT SWITCH
0) OFF
1) UP
2) DOWN
5) SEATBACK SWITCH
0) OFF
1) FRONT
2) BACK
6) SEAT CUSHION TILT SWITCH
0) OFF
1) UP
2) DOWN
7) SEAT POSITION SWITCH
0) OFF
1) FRONT
2) BACK
12
10
7
8
3
4
2
1
6
X603
1.5 GN/VI
1.5 SW/VI
1.5 BL/GR
1.5 VI/GR
1 GN/GE
1 SW/GE
1 VI/RT
1 BL/RT
EARLY PRODUCTION
LATE PRODUCTION
X729
X728
X726
X727
M53
DRIVER'S SEATBACK RECLINER MOTOR
M52
DRIVER'S SEAT HEIGHT MOTOR
M51
DRIVER'S SEAT MOVEMENT MOTOR
M50
DRIVER'S SEAT CUSHION TILT MOTOR
GROUND DISTRIBUTION
0670.4
X13006

POWER SEATS AND LUMBAR SUPPORT

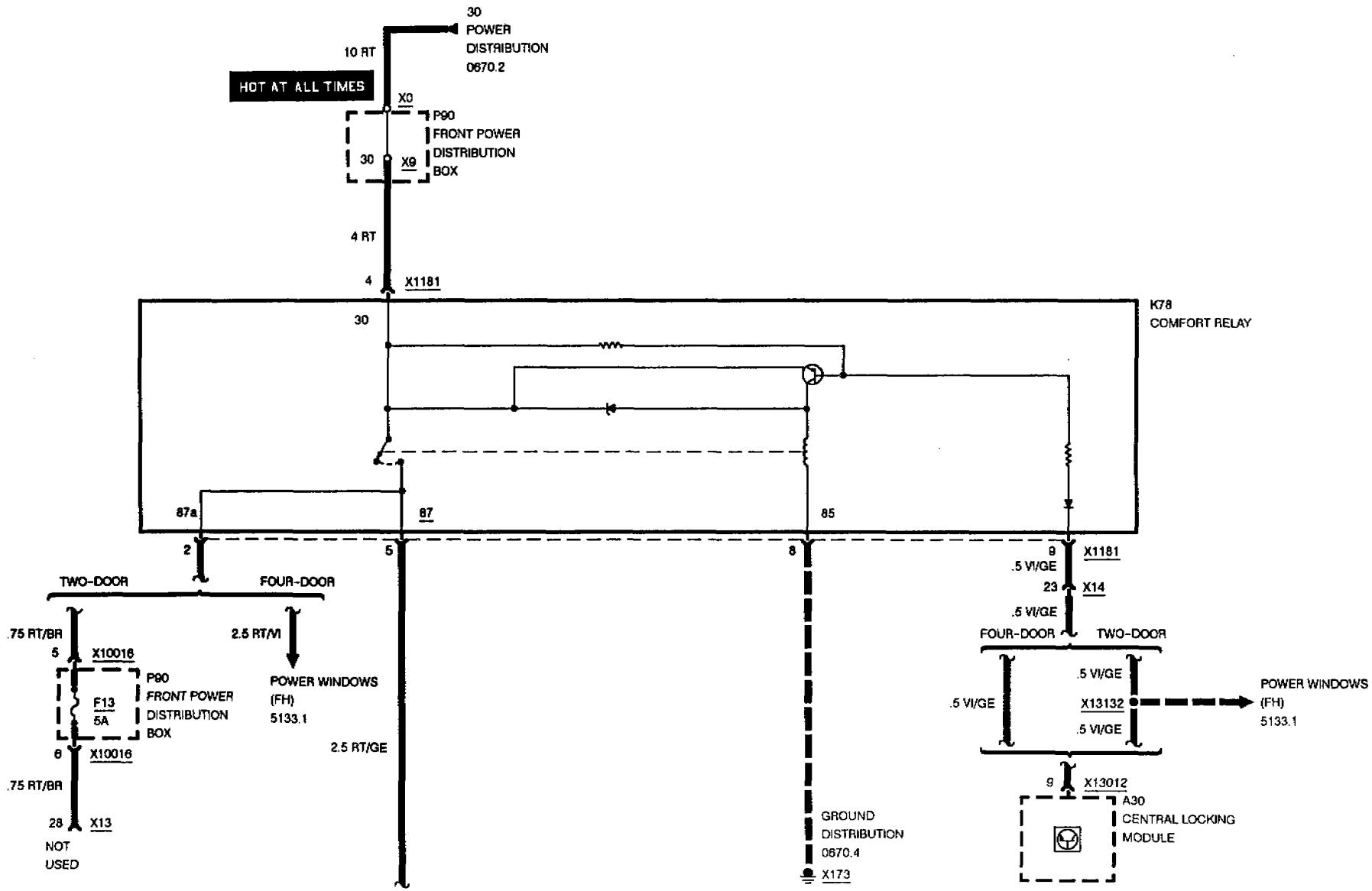
PASSENGER'S SEAT

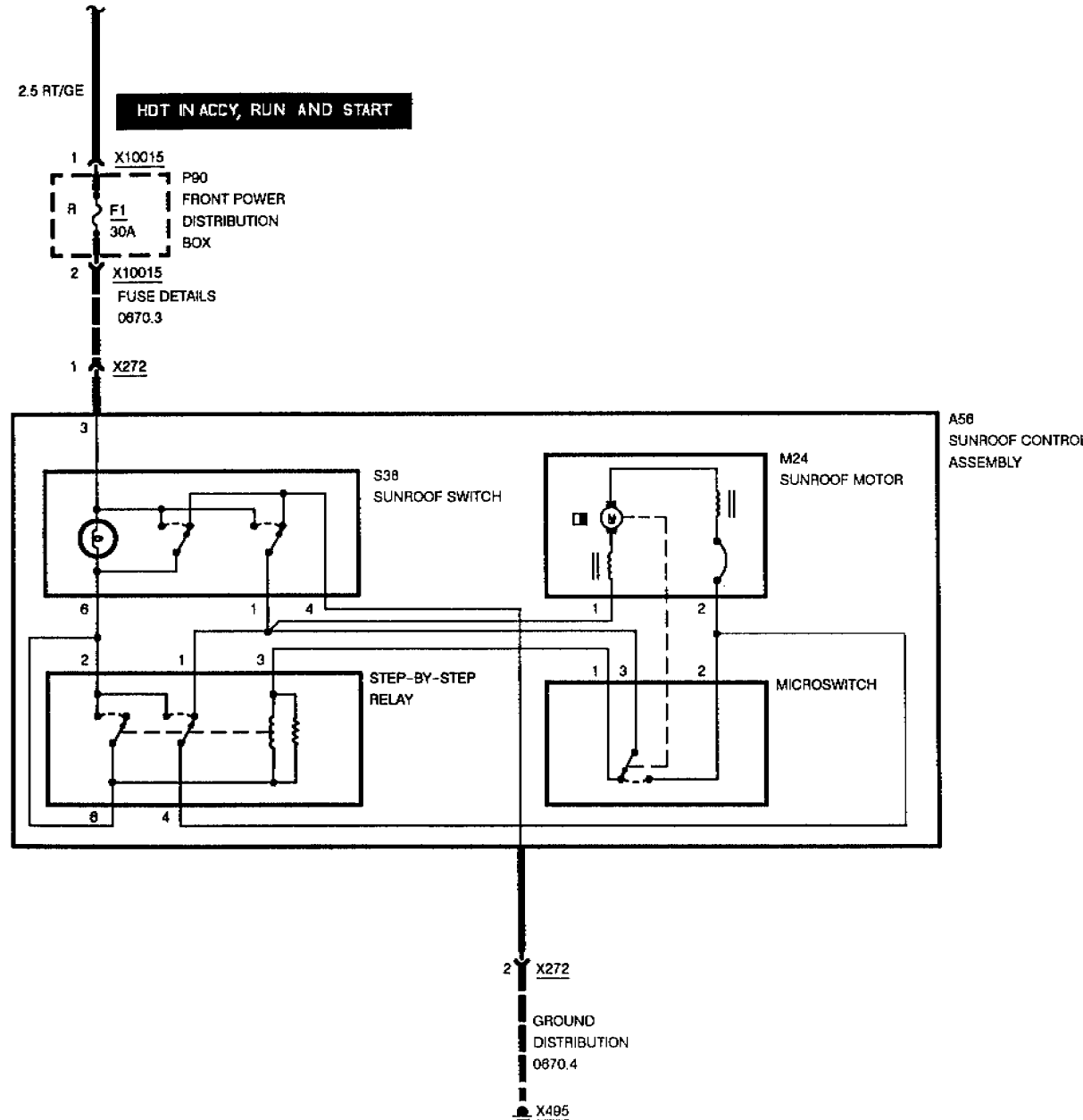


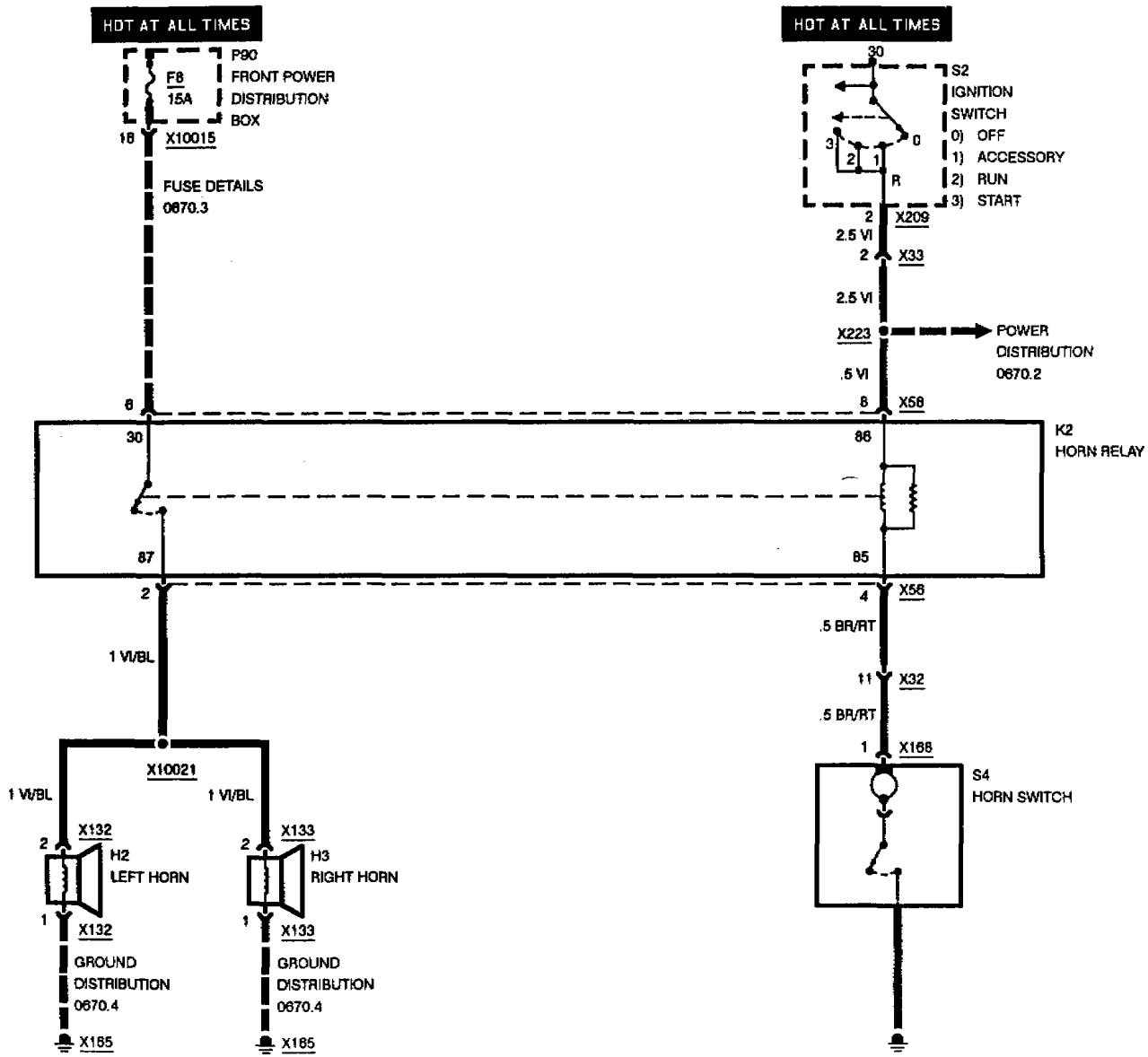
HEATED SEATS



POWER SUN ROOF (SHD)

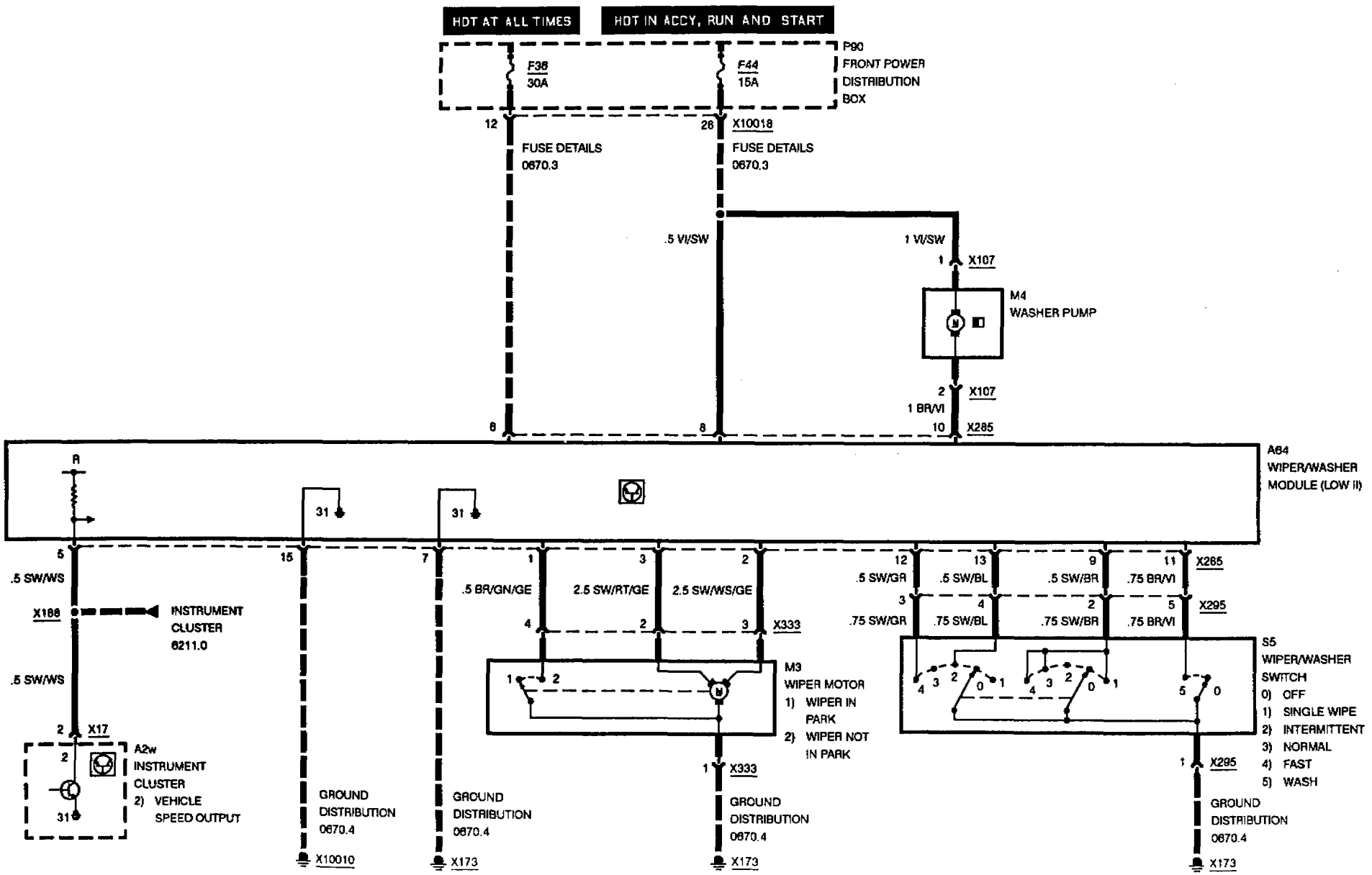



2.5 RT/GE
HOT IN ACCY, RUN AND START
1
X10015
P90
FRONT POWER
DISTRIBUTION
BOX
R
F1
30A
2
X10015
FUSE DETAILS
0670.3
1
X272
3
A56
SUNROOF CONTROL
ASSEMBLY
S38
SUNROOF SWITCH
M24
SUNROOF MOTOR
6
1
4
1
2
2
1
3
STEP-BY-STEP
RELAY
1
3
2
MICROSWITCH
8
4
2
X272
GROUND
DISTRIBUTION
0670.4
X495

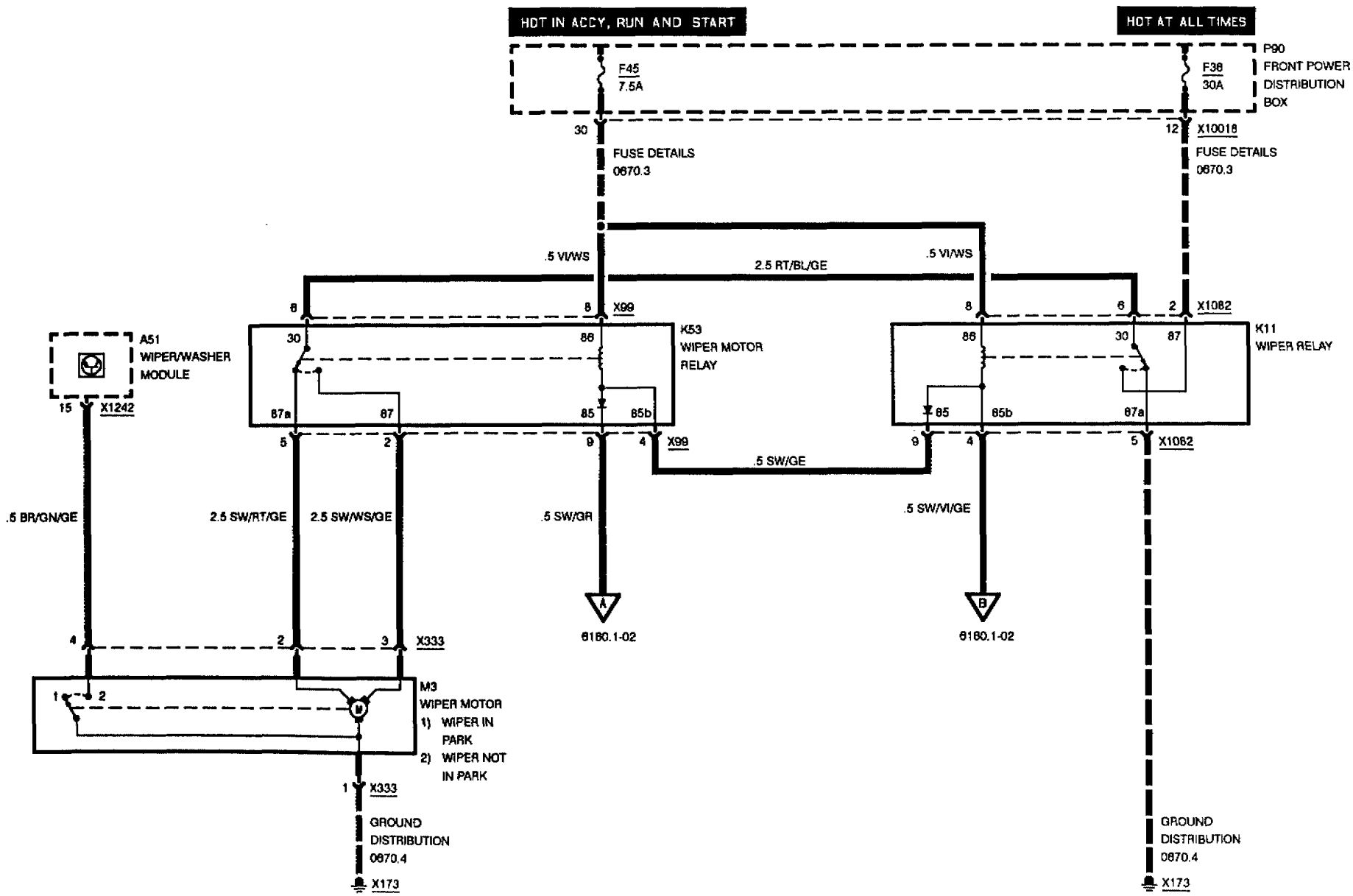

HOT AT ALL TIMES
P90
F8
15A
FRONT POWER
DISTRIBUTION
BOX
18
X10015
FUSE DETAILS
0670.3
6
30
87
2
1 VI/BL
X10021
1 W/BL
1 VI/BL
2
X132
H2
LEFT HORN
1
X132
GROUND
DISTRIBUTION
0670.4
X185
2
X133
H3
RIGHT HORN
1
X133
GROUND
DISTRIBUTION
0670.4
X185
HOT AT ALL TIMES
30
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
3
2
1
0
R
2
X209
2.5 VI
2
X33
2.5 VI
X223
POWER
DISTRIBUTION
0670.2
.5 VI
6
X58
86
85
K2
HORN RELAY
4
X58
.5 BR/RT
11
X32
.5 BR/RT
1
X168
S4
HORN SWITCH

WIPER/ WASHER MODULE (WWM)

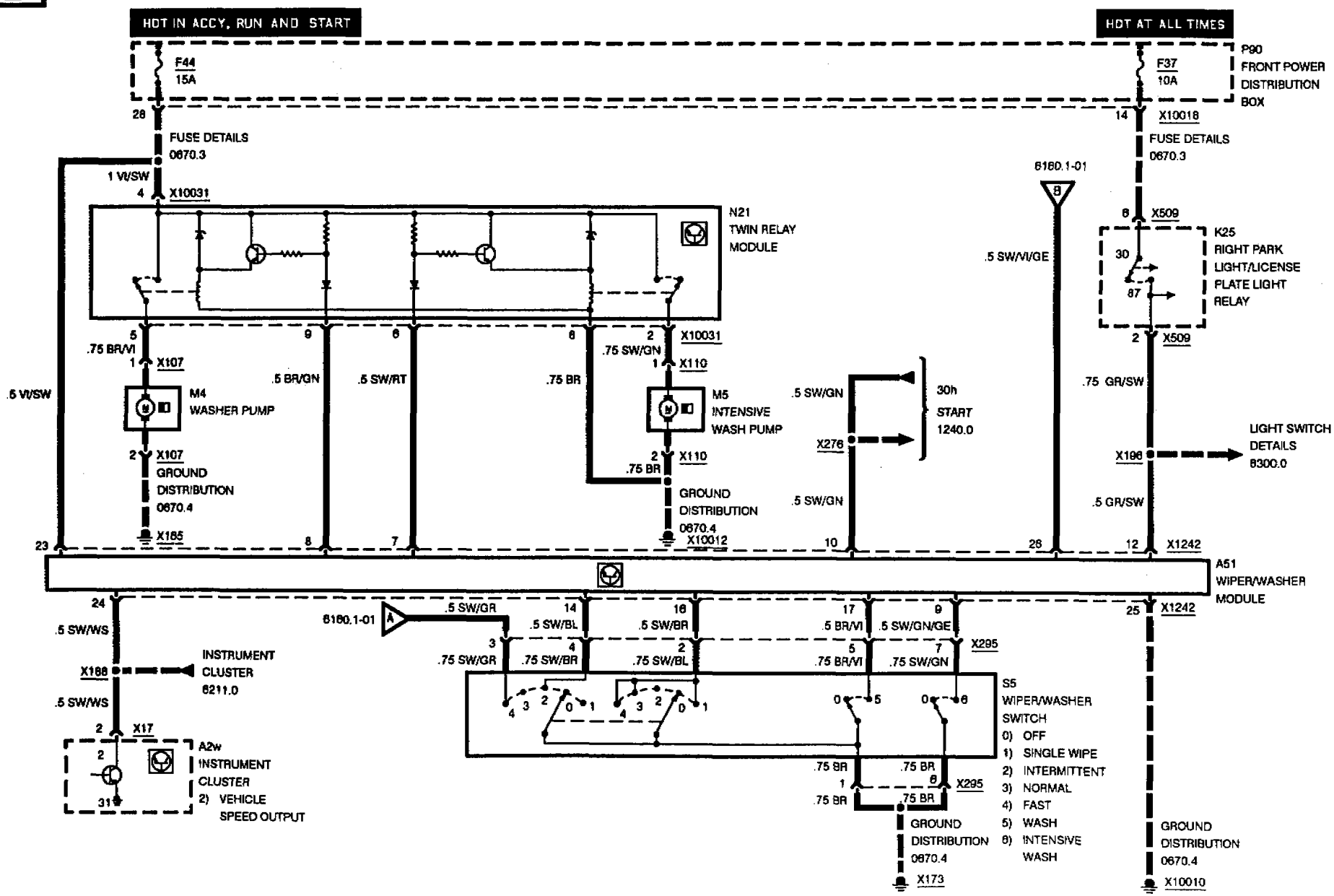
USA

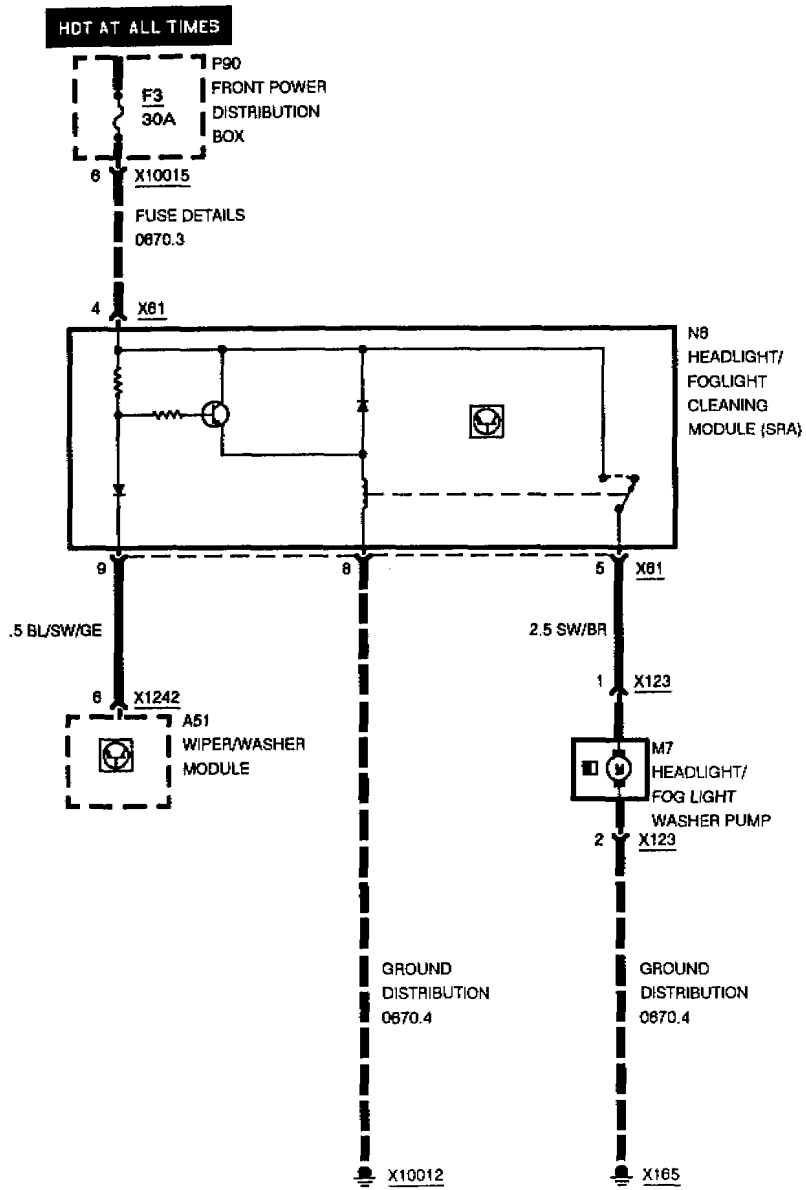


WIPER/ WASHER MODULE (WWM)

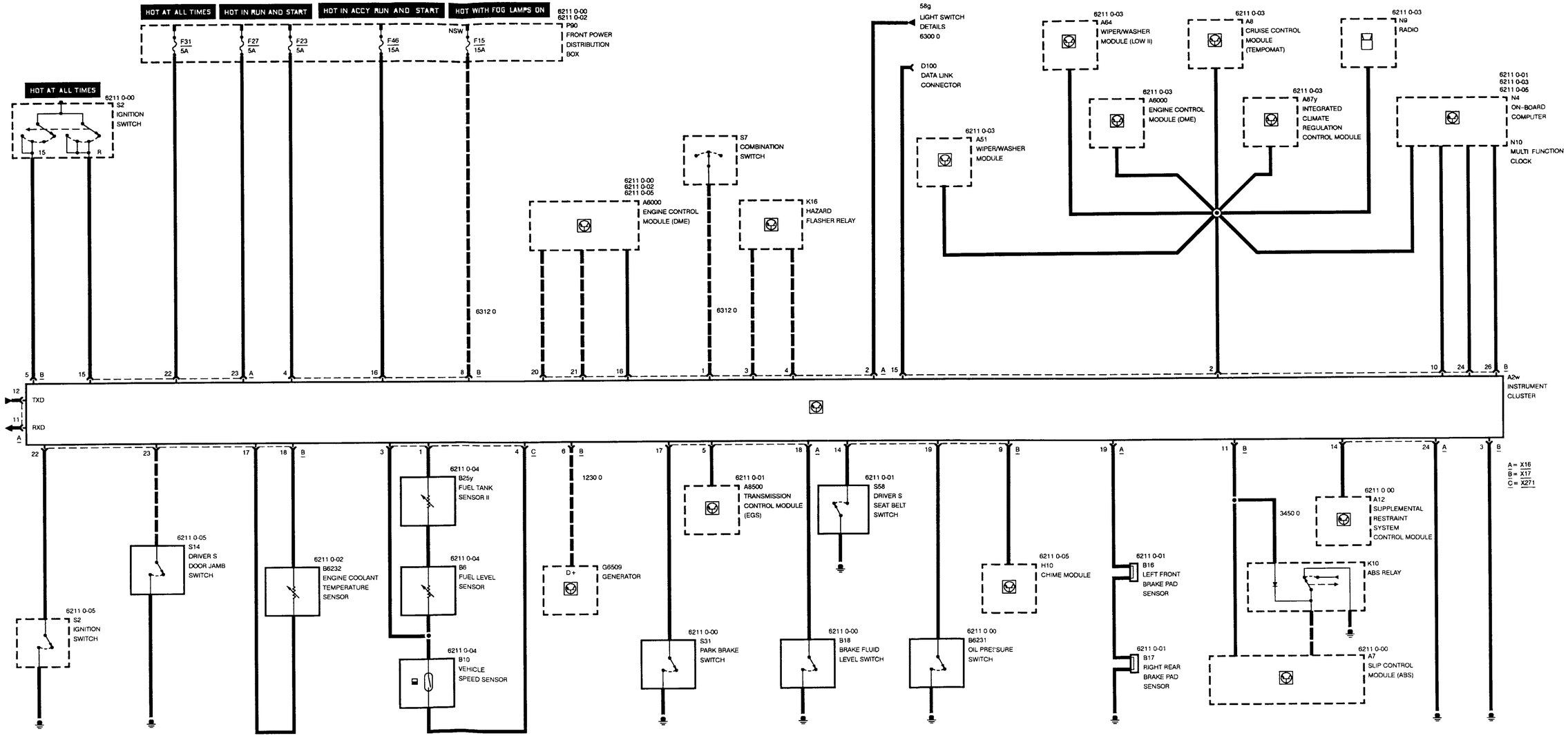


WIPER/ WASHER MODULE (WWM)



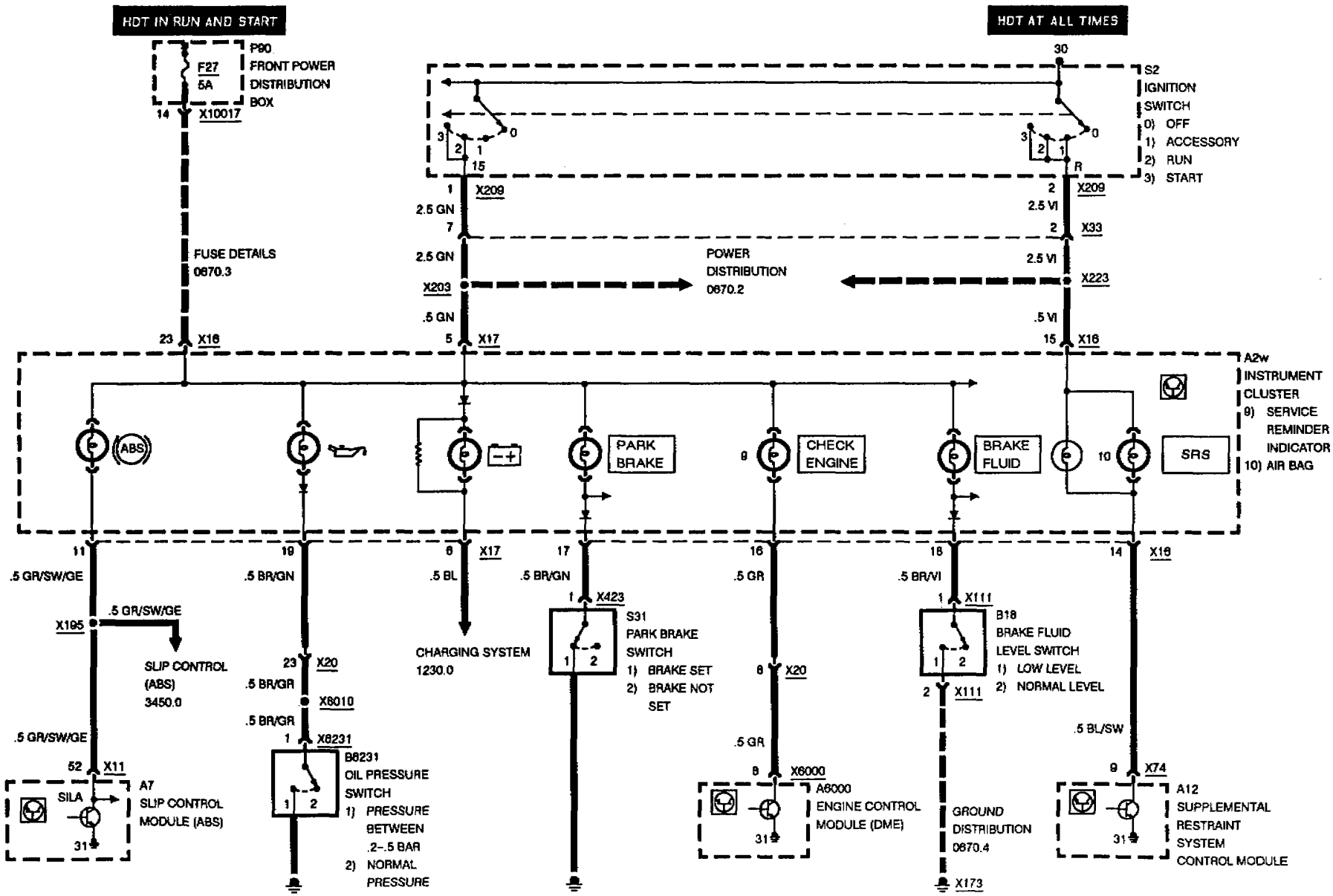

HOT AT ALL TIMES
P90
F3
30A
FRONT POWER
DISTRIBUTION
BOX
6
X10015
FUSE DETAILS
0670.3
4
X61
N9
HEADLIGHT/
FOGLIGHT
CLEANING
MODULE (SRA)
9
8
5
X61
.5 BL/SW/GE
2.5 SW/BR
6
X1242
A51
WIPER/WASHER
MODULE
1
X123
M7
HEADLIGHT/
FOG LIGHT
WASHER PUMP
2
X123
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X10012
X165

11/92 6211.0 1992
11/92 6211 0 1992



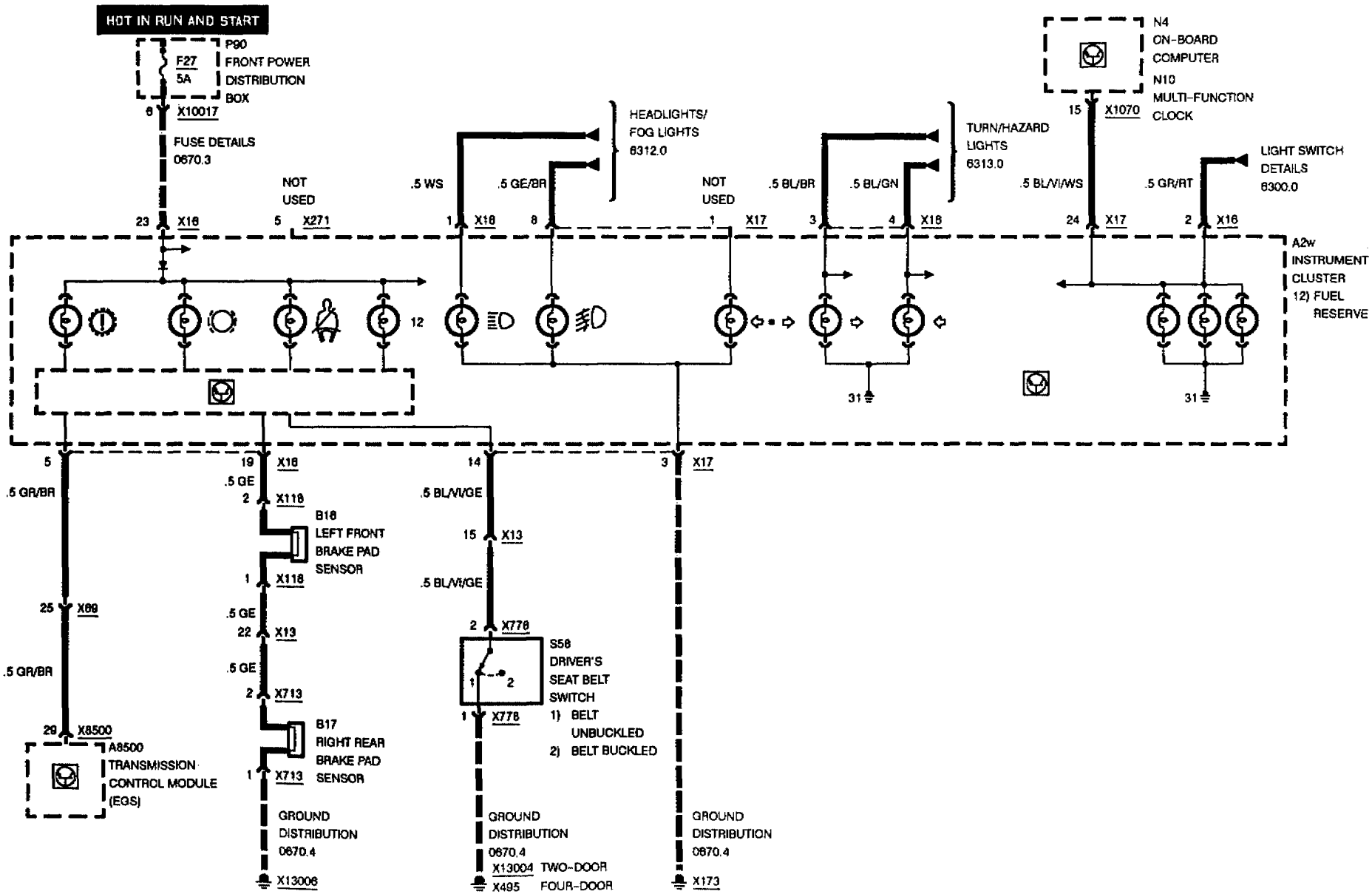
INSTRUMENT CLUSTER

INDICATORS



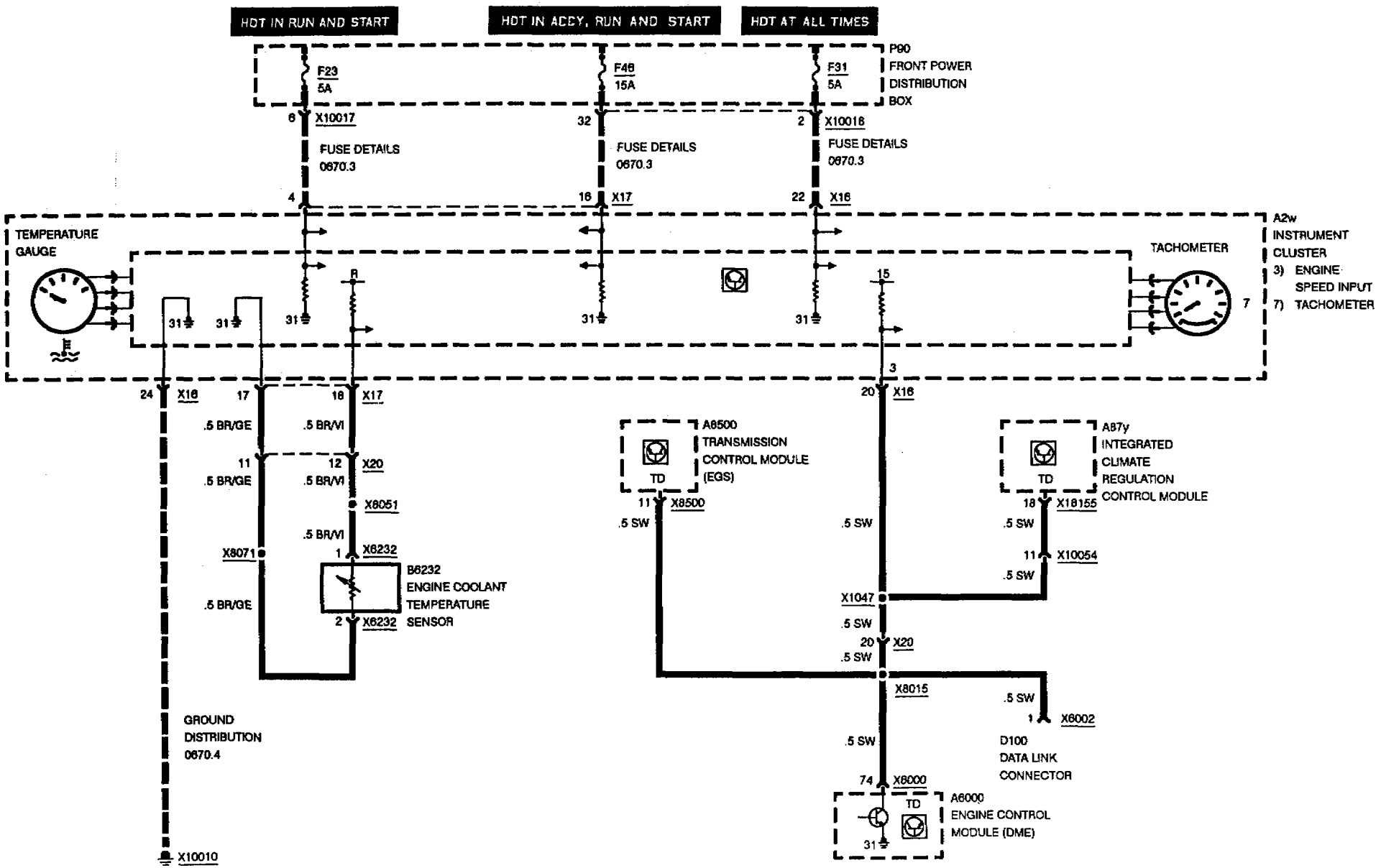
INSTRUMENT CLUSTER

INDICATORS



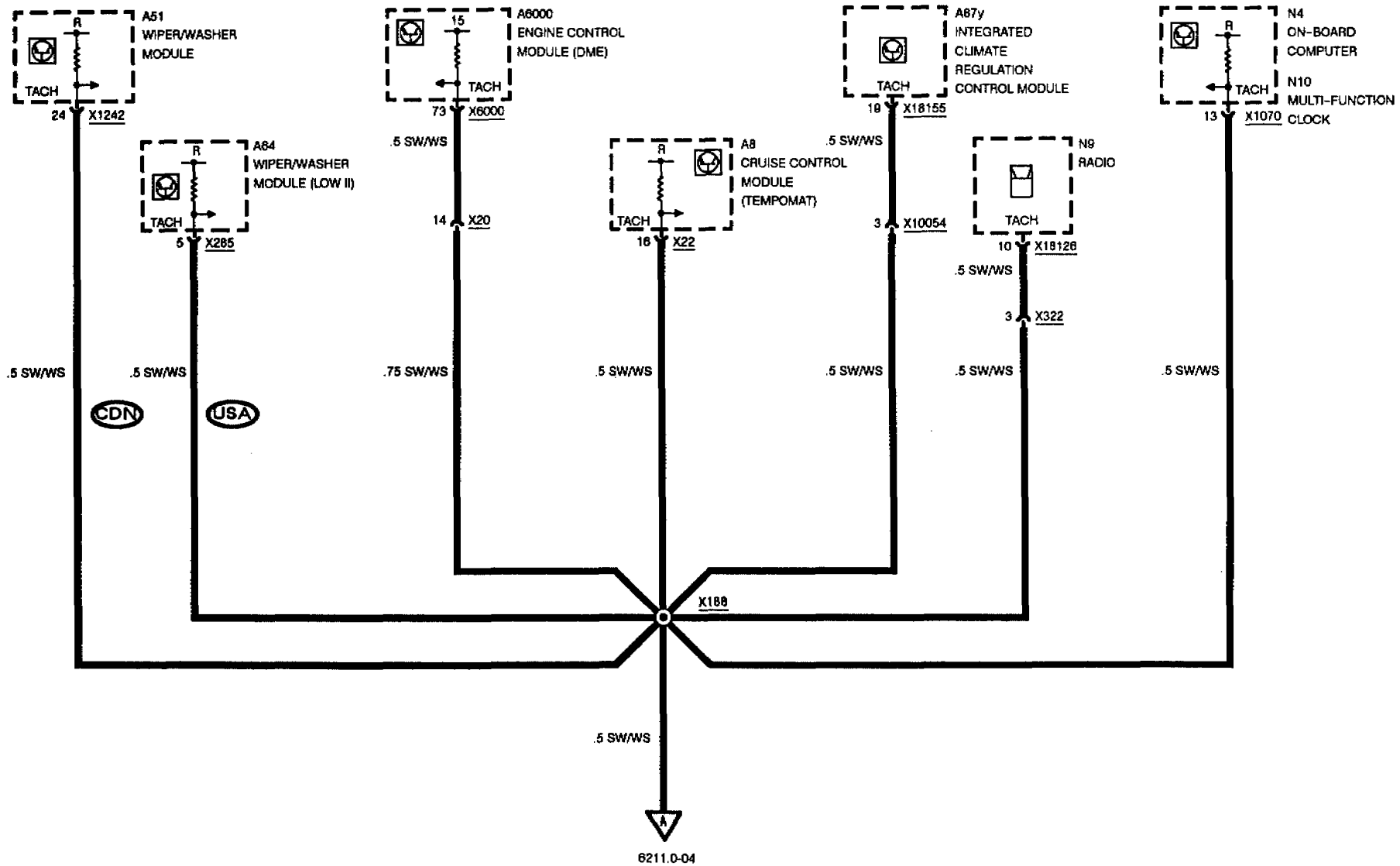
INSTRUMENT CLUSTER

INDICATORS



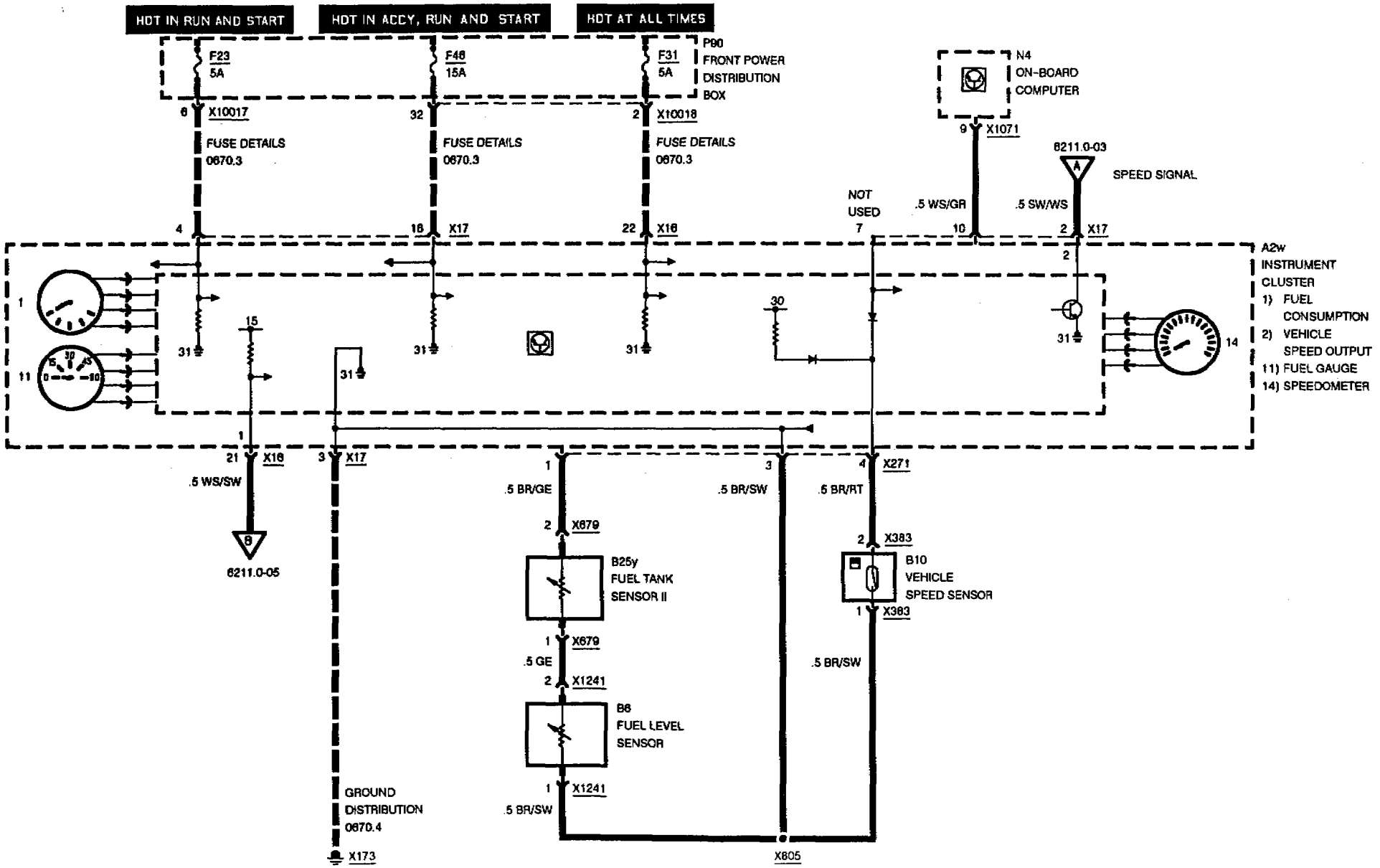
INSTRUMENT CLUSTER

SIGNAL-OUTPUT SPEEDOMETER



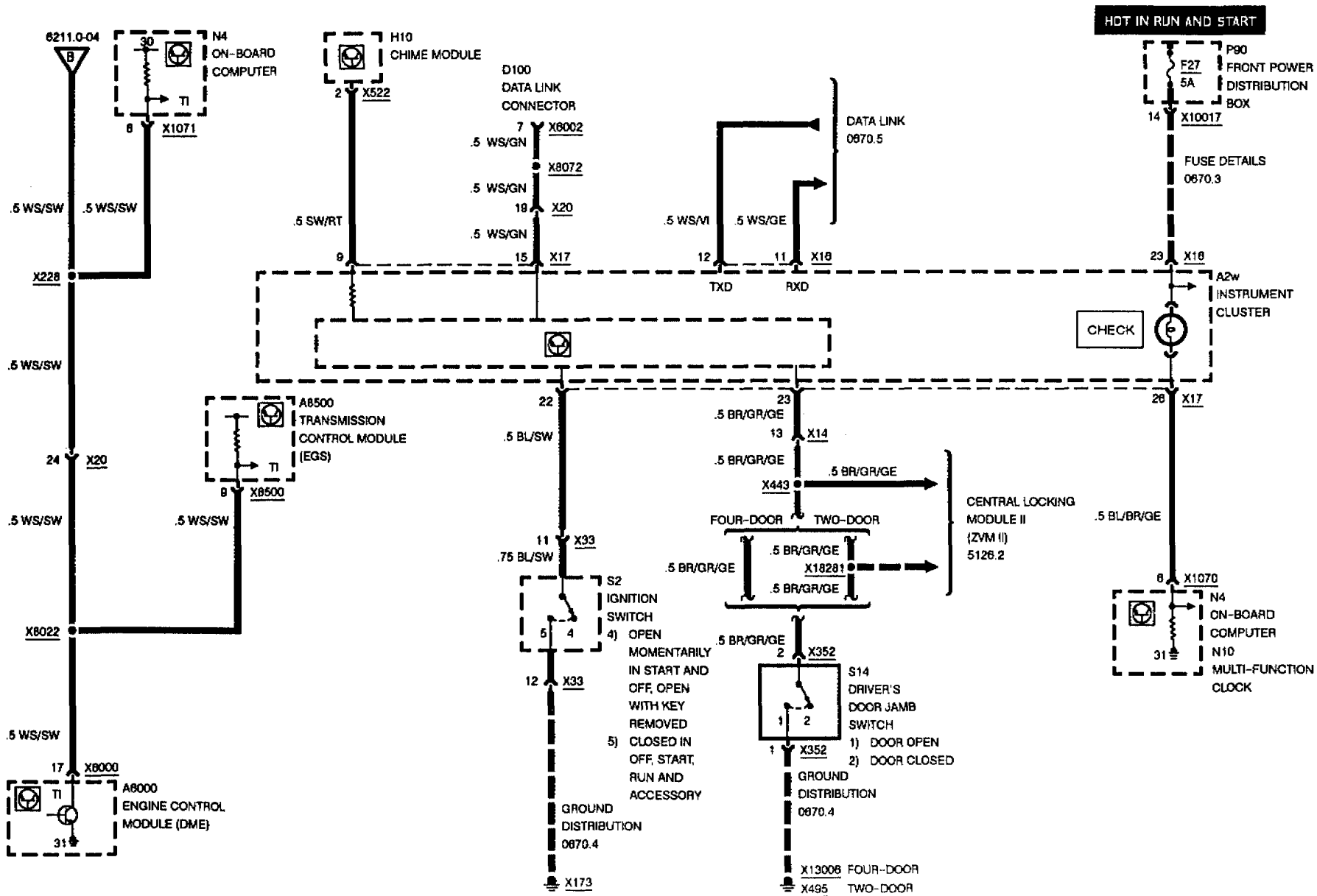
INSTRUMENT CLUSTER

INDICATORS

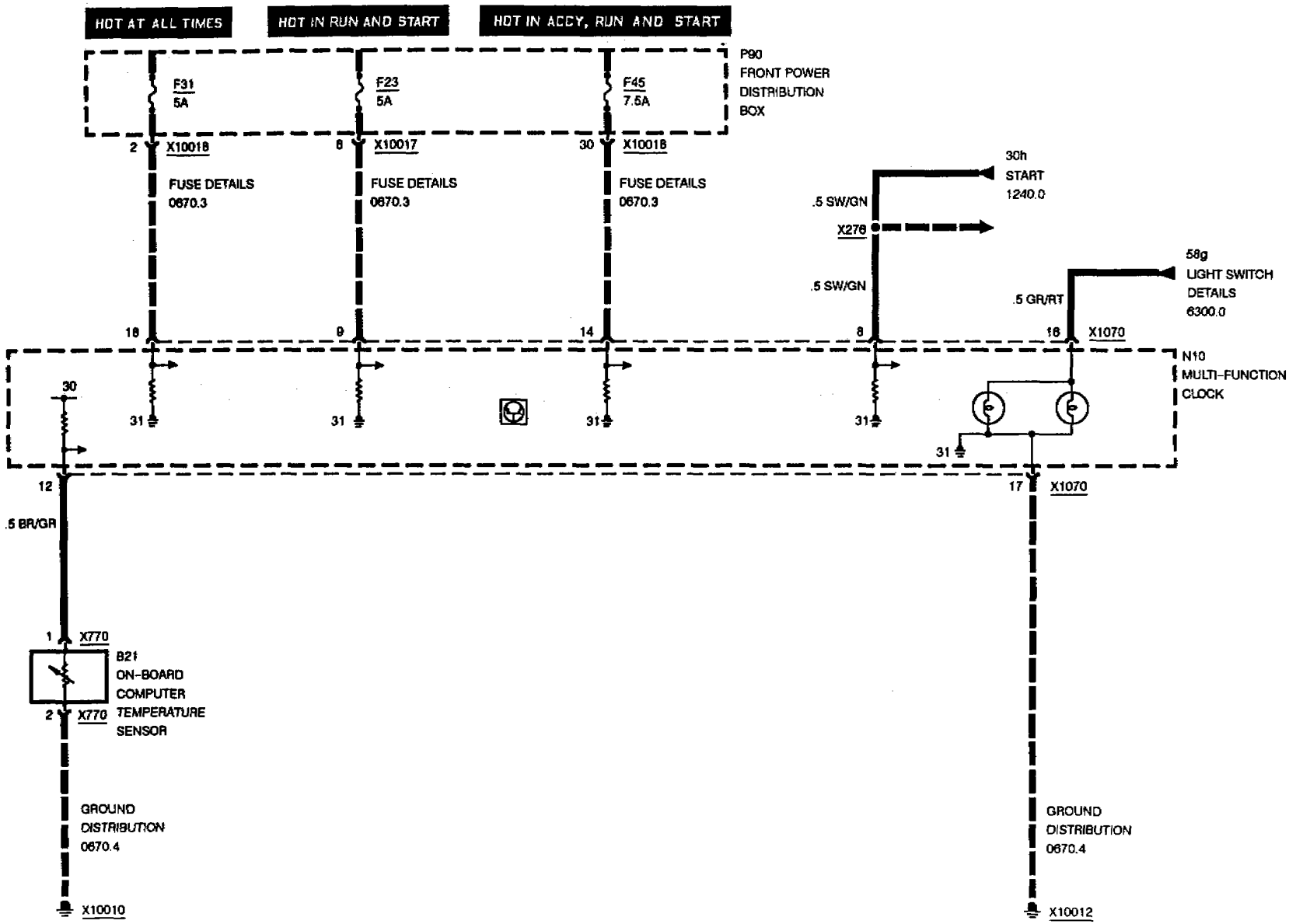


INSTRUMENT CLUSTER

INDICATORS

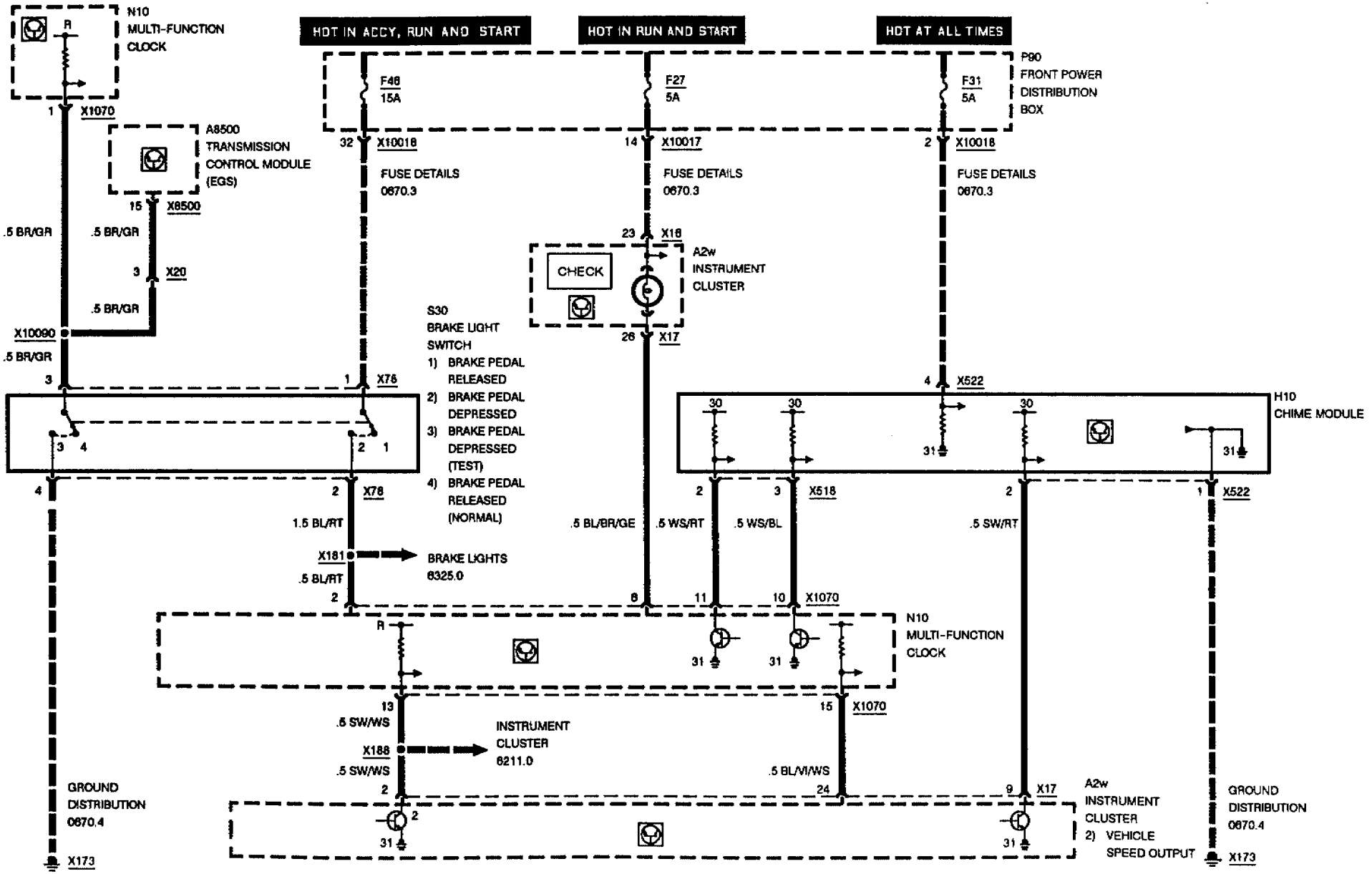


MULTI-FUNCTION CLOCK

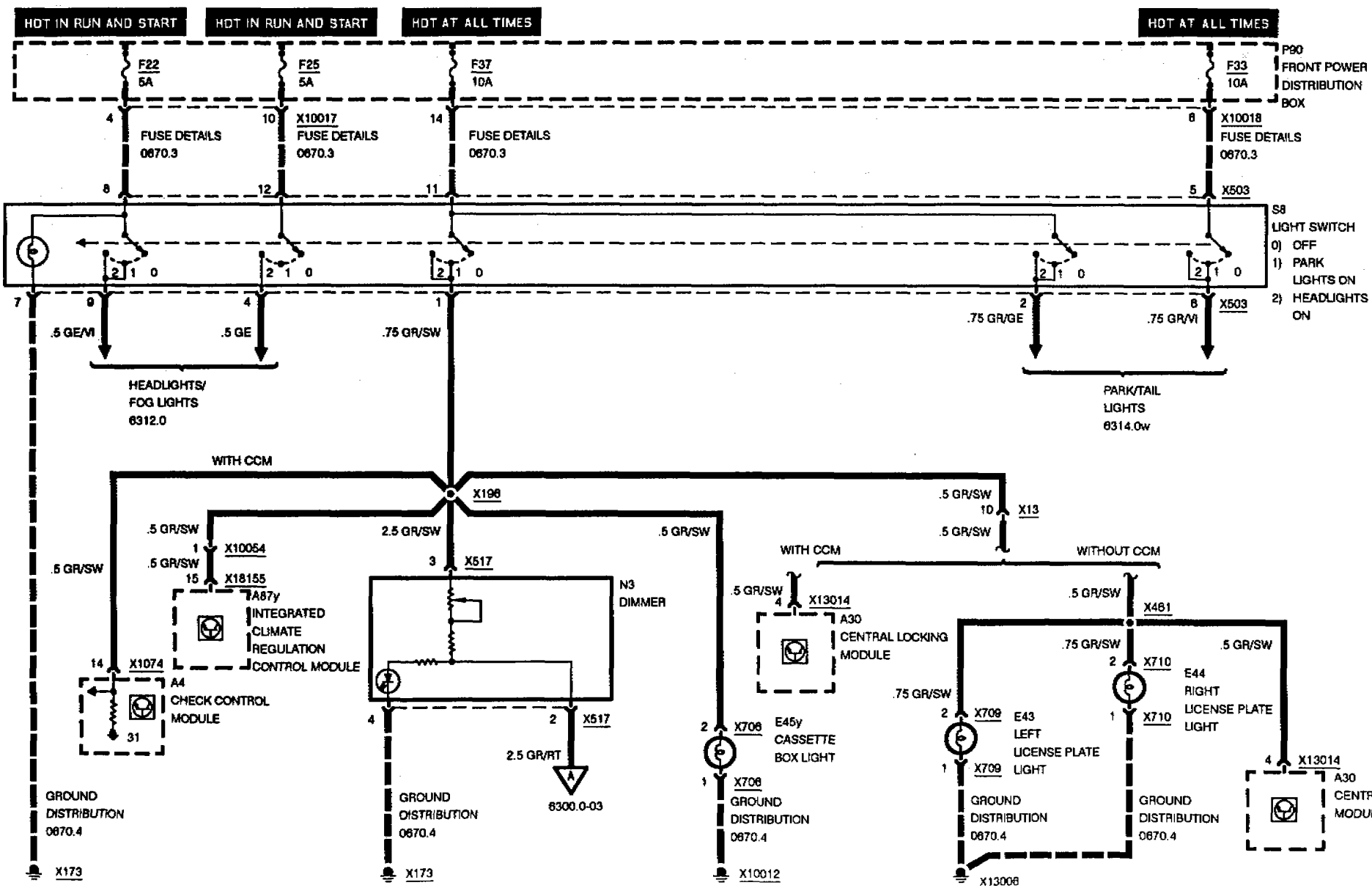


MULTI-FUNCTION CLOCK

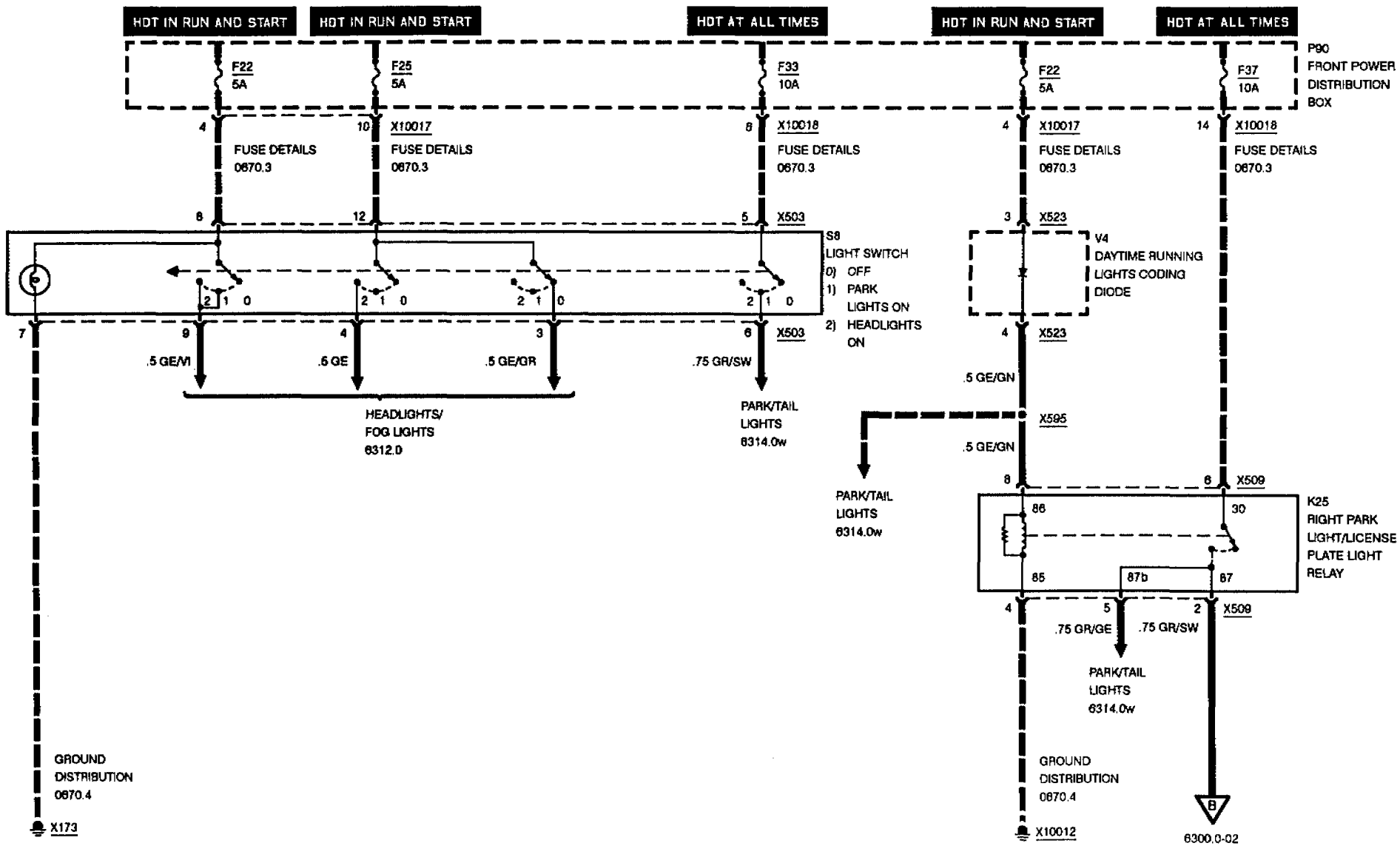
CHIME, BRAKE LIGHT SWITCH



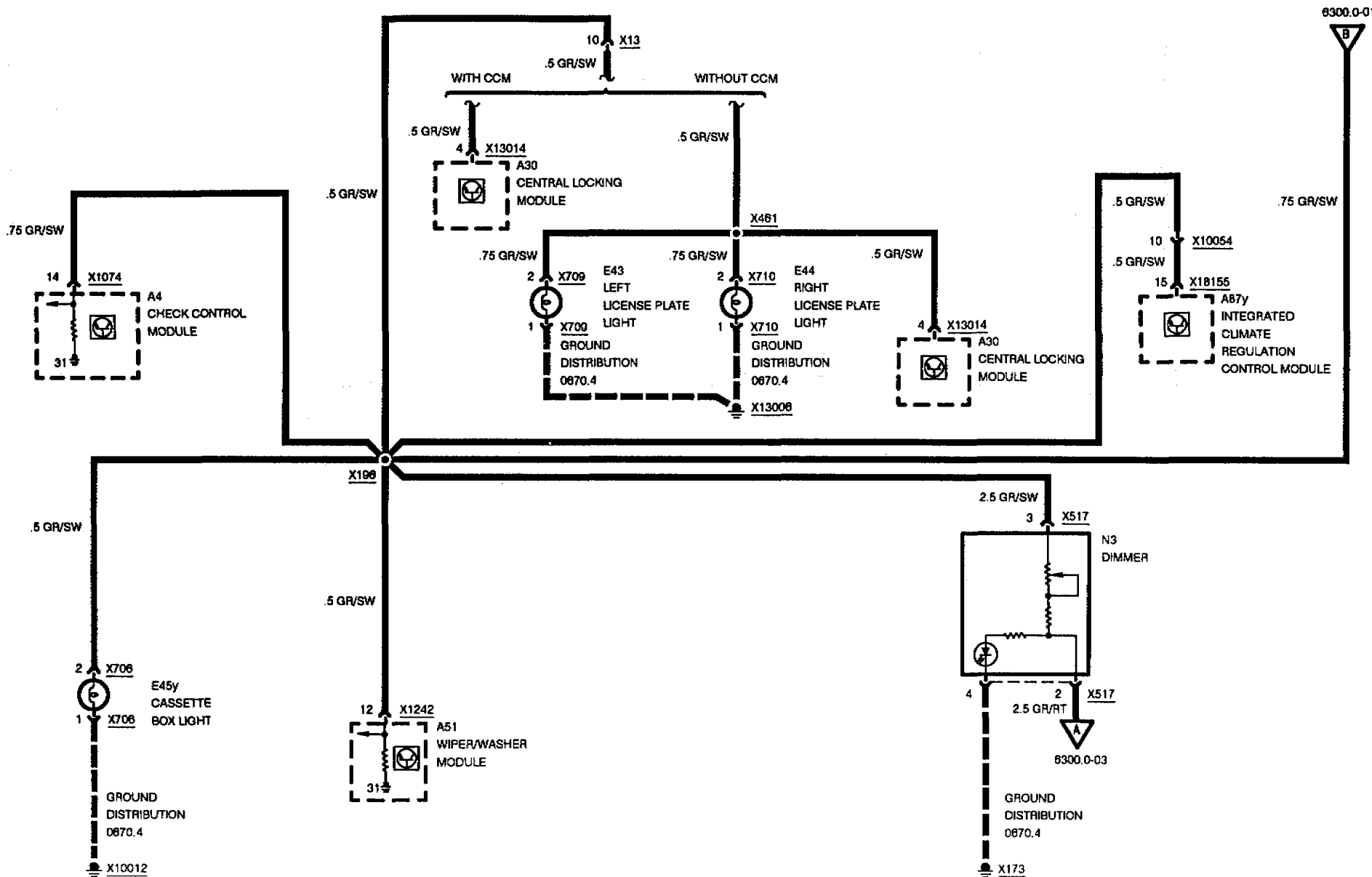
LIGHT SWITCH DETAILS



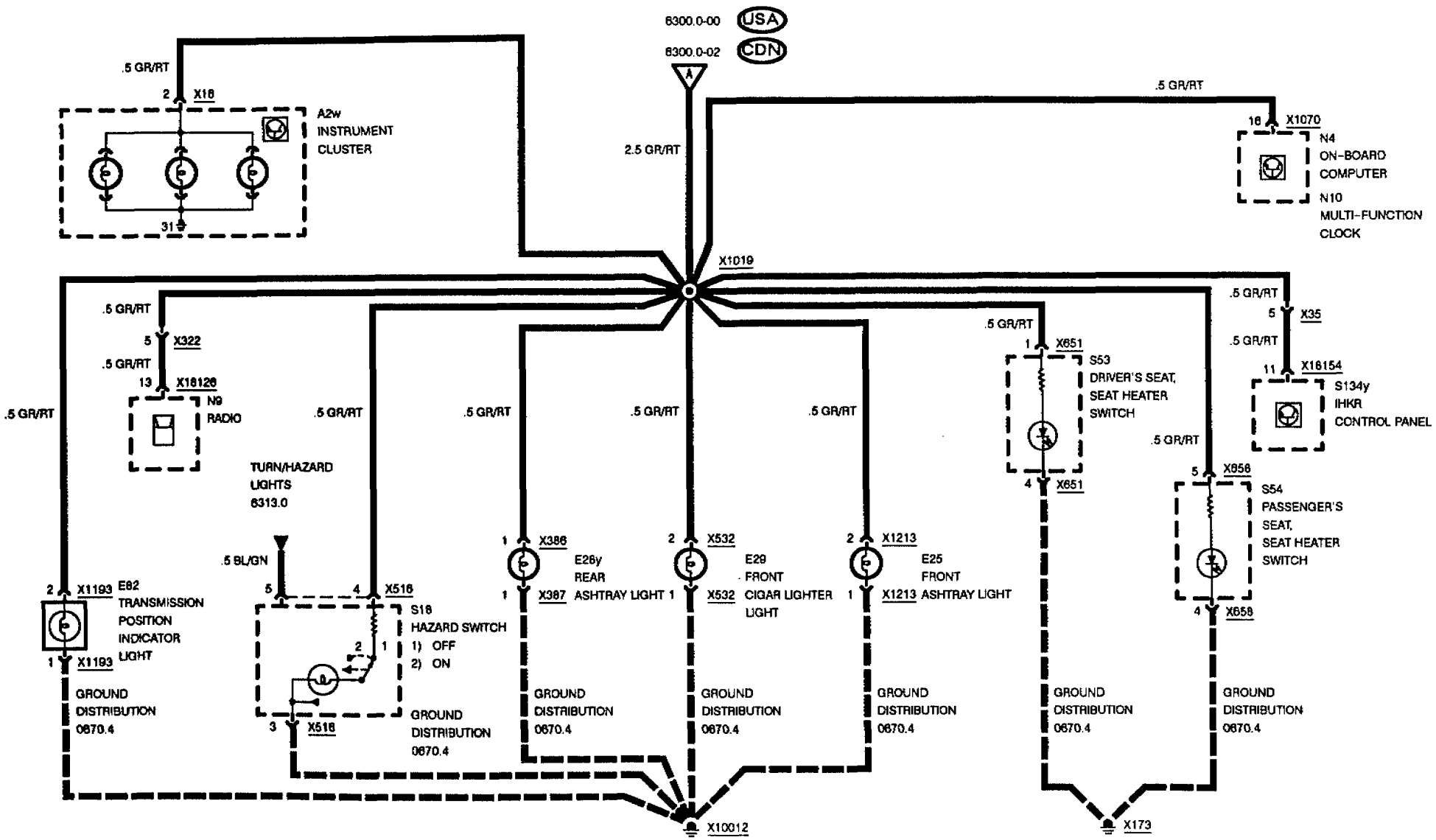
LIGHT SWITCH DETAILS



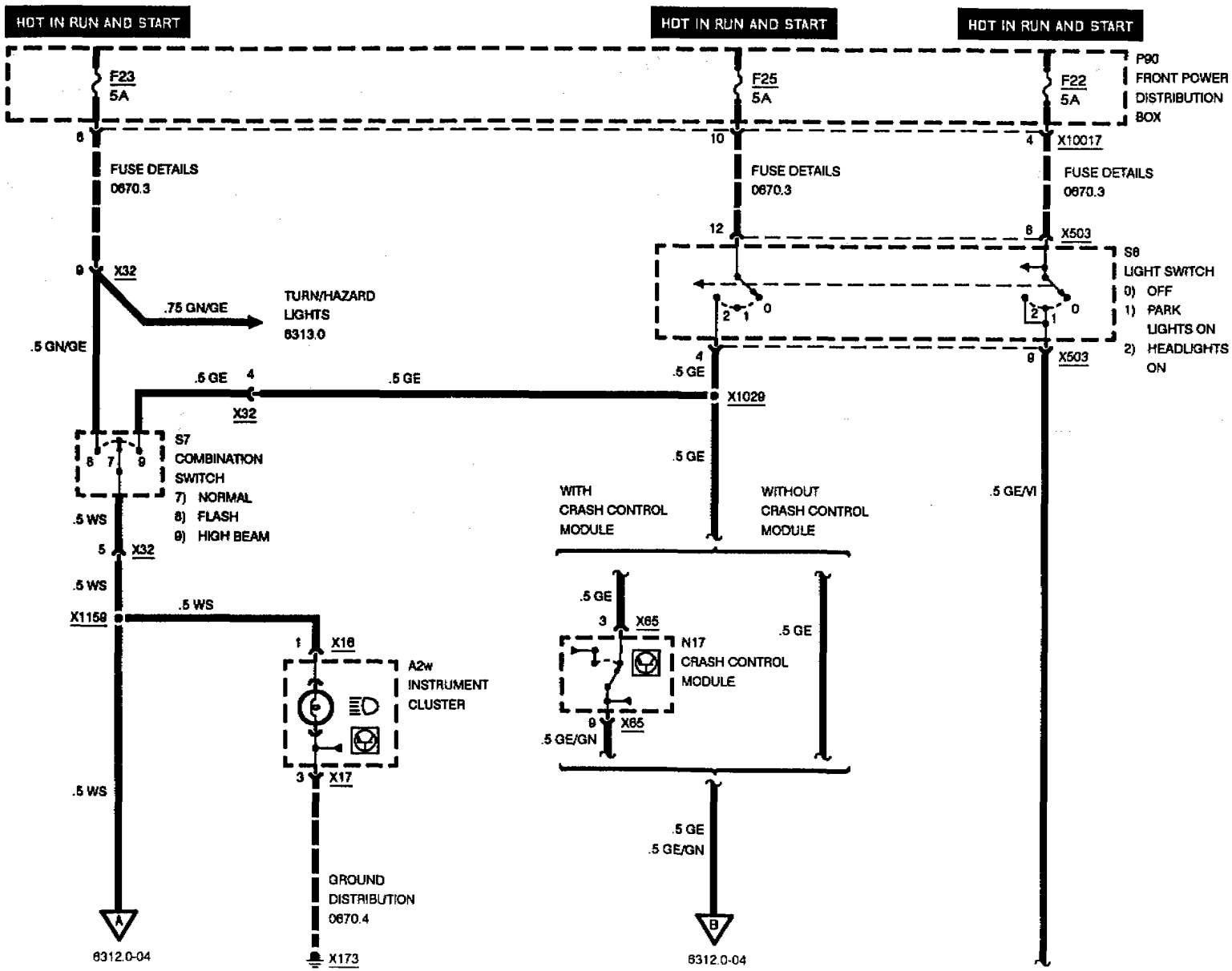
LIGHT SWITCH DETAILS

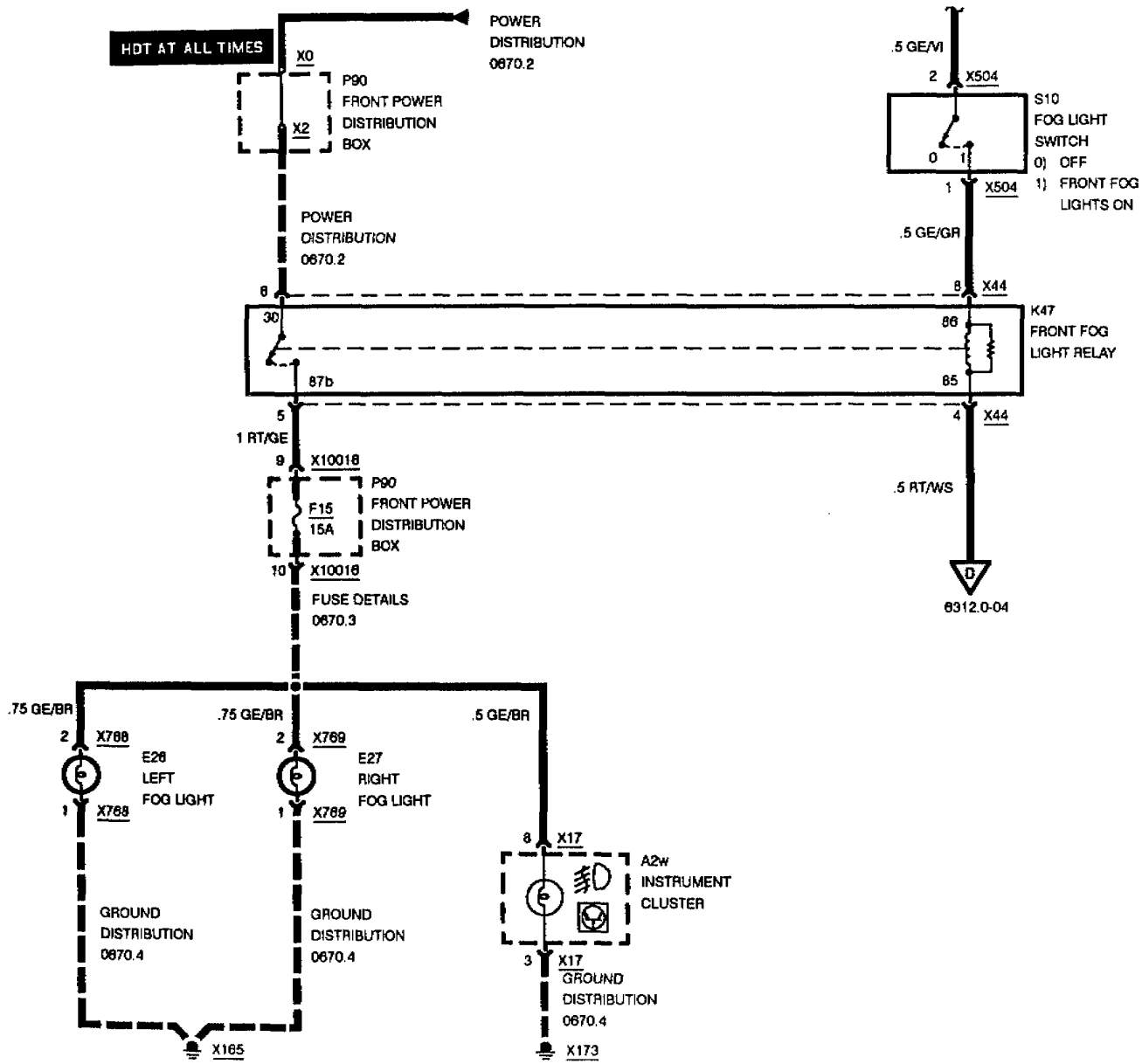


LIGHT SWITCH DETAILS

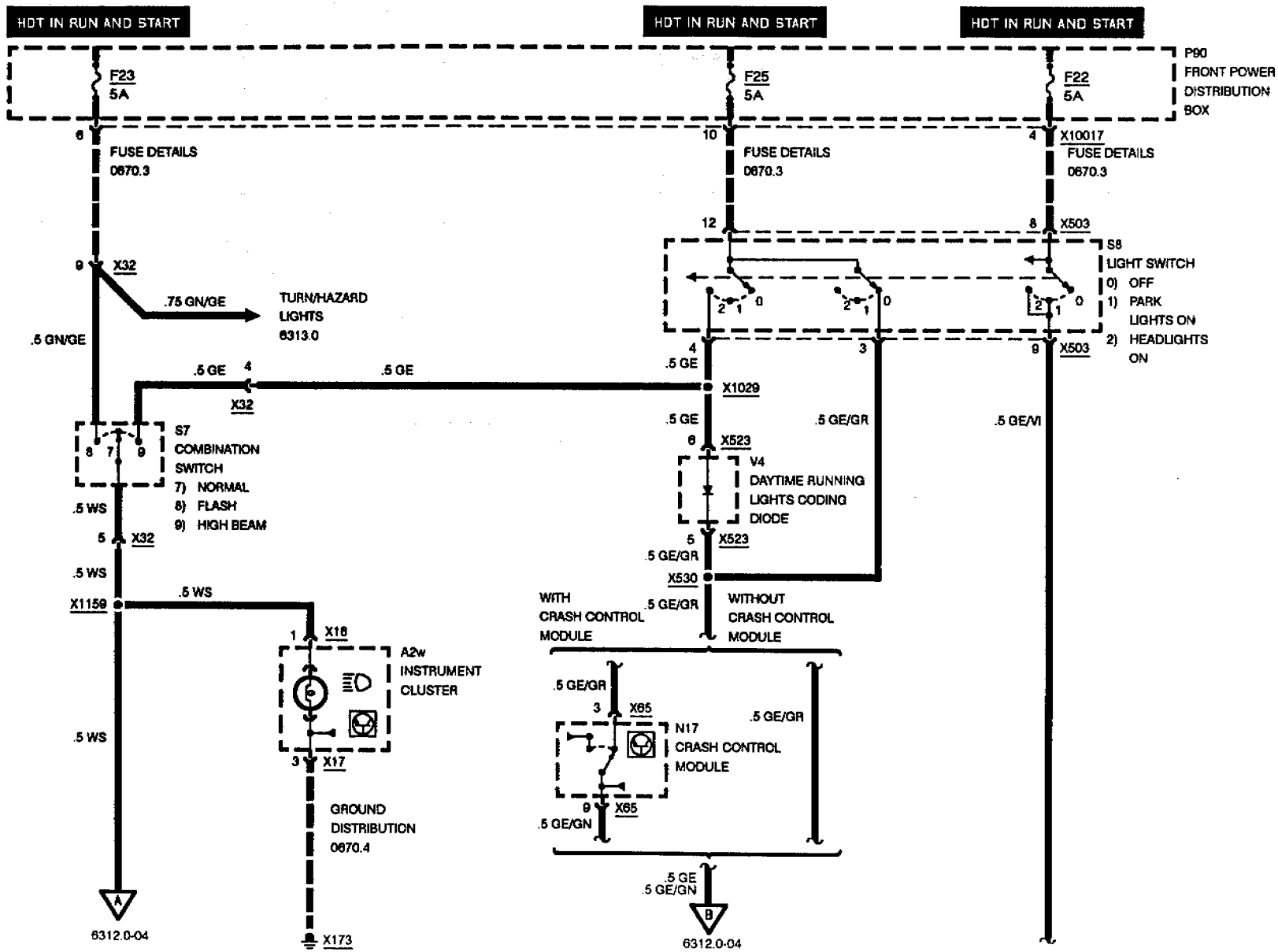


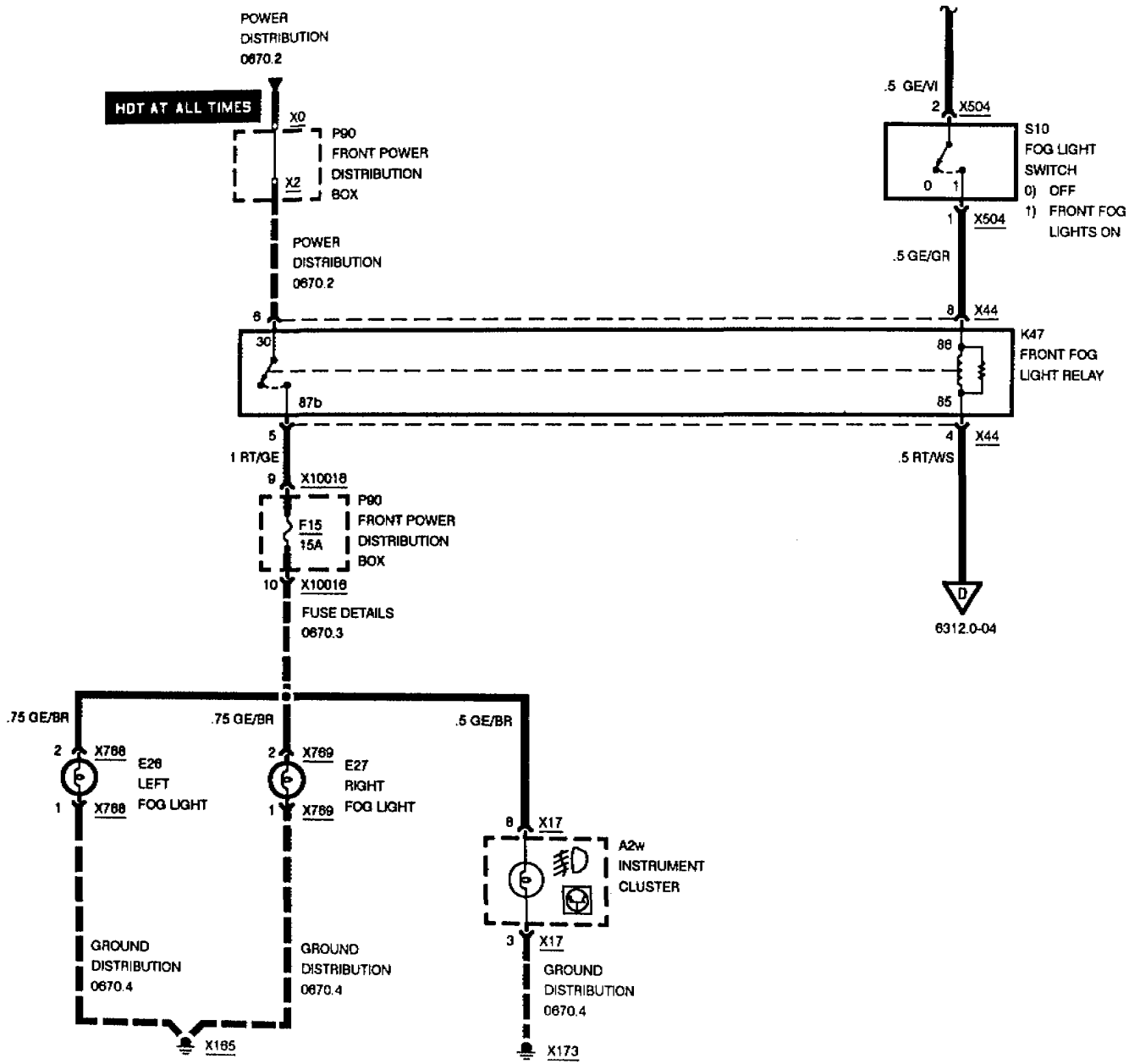
HEADLIGHTS/ FOG LIGHTS

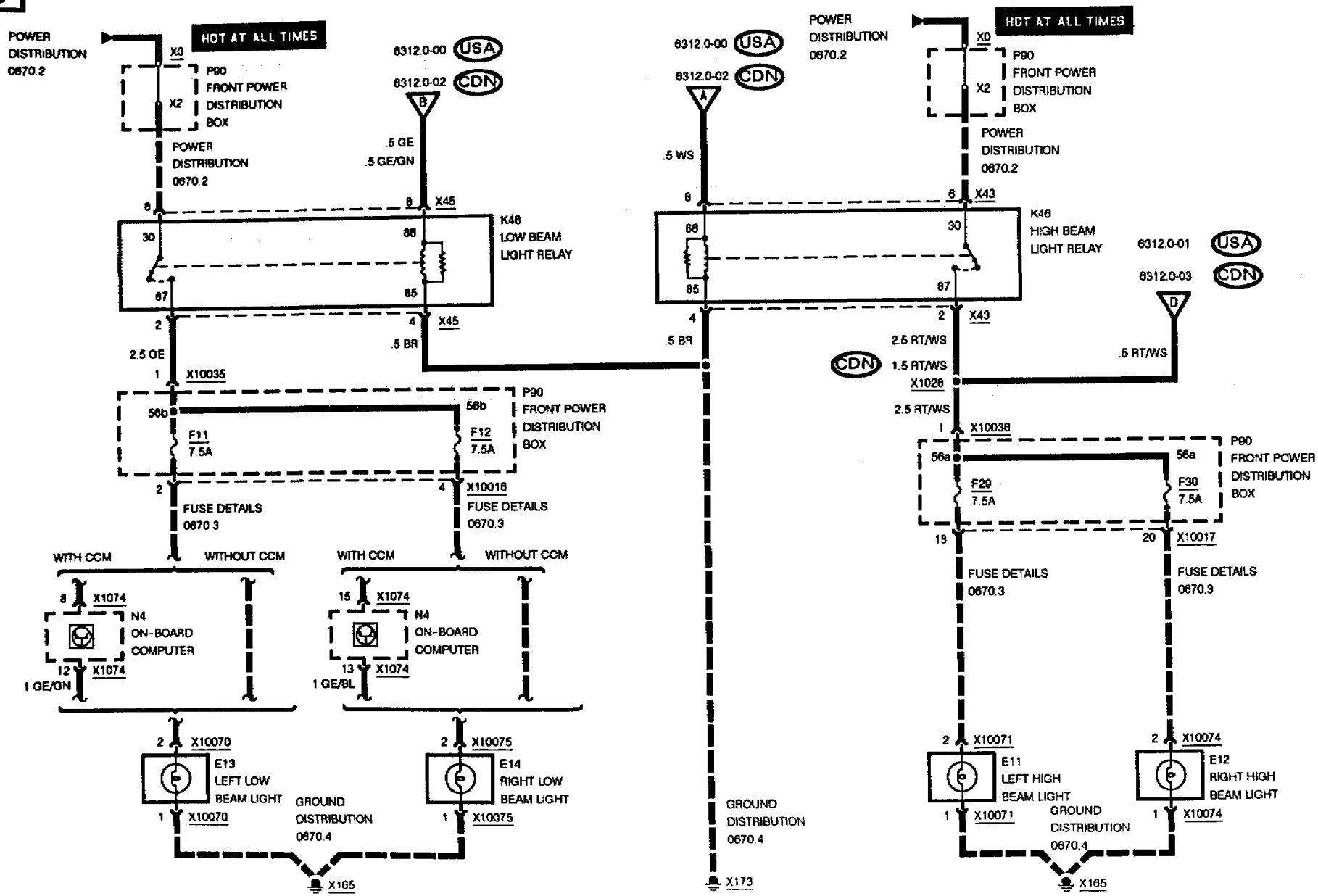



HOT AT ALL TIMES
X0
P90
FRONT POWER
DISTRIBUTION
BOX
X2
POWER
DISTRIBUTION
0670.2
POWER
DISTRIBUTION
0670.2
.5 GE/VI
2
X504
S10
FOG LIGHT
SWITCH
0 1
0) OFF
1) FRONT FOG
LIGHTS ON
1
X504
.5 GE/GR
6
8
X44
30
86
K47
FRONT FOG
LIGHT RELAY
87b
85
5
4
X44
1 RT/GE
9
X10016
P90
FRONT POWER
DISTRIBUTION
BOX
F15
15A
10
X10016
FUSE DETAILS
0670.3
.5 RT/WS
D
6312.0-04
.75 GE/BR
.75 GE/BR
.5 GE/BR
2
X768
E26
LEFT
FOG LIGHT
1
X768
2
X769
E27
RIGHT
FOG LIGHT
1
X769
8
X17
A2w
INSTRUMENT
CLUSTER
3
X17
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X165
X173

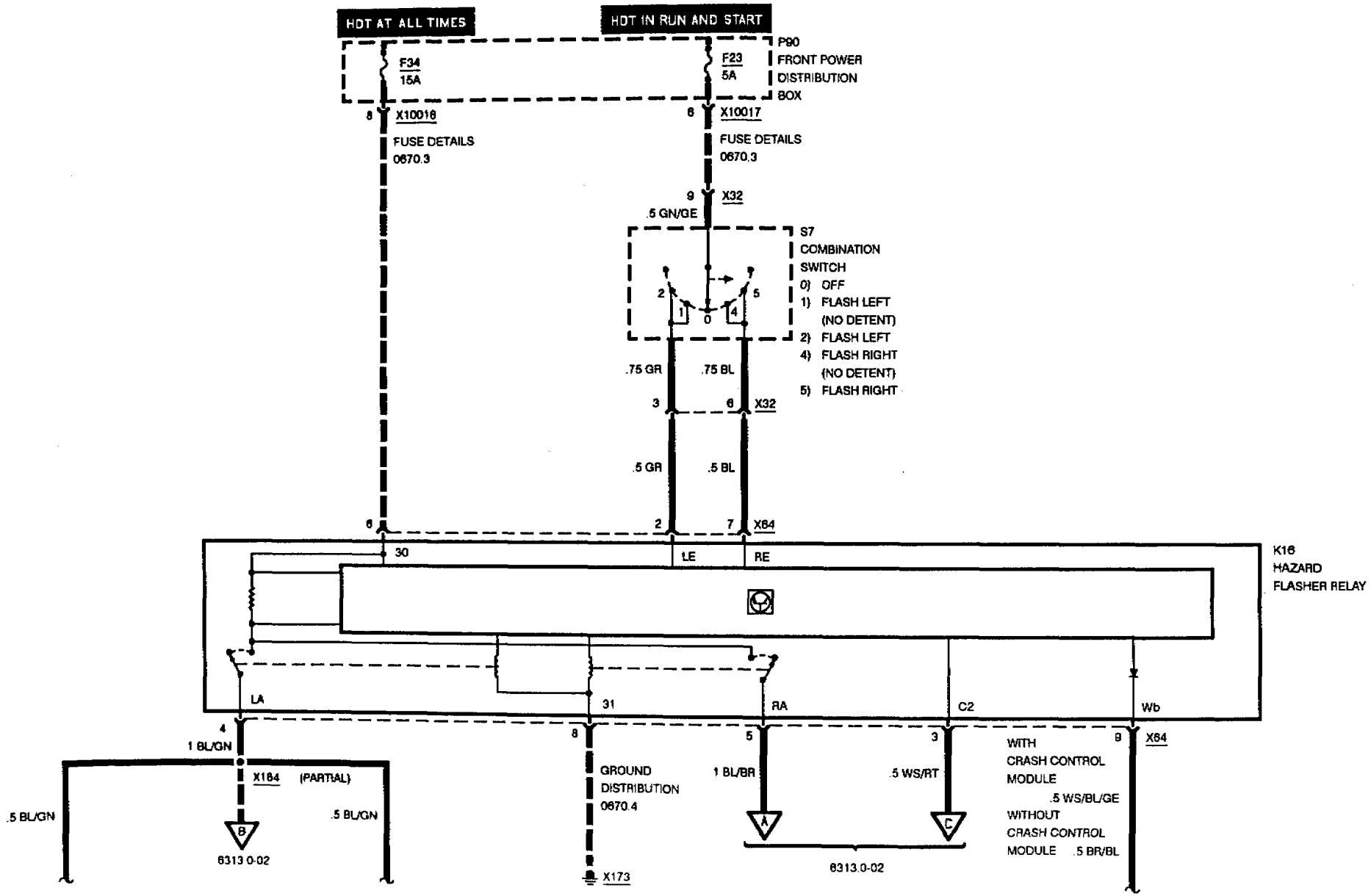
HEADLIGHTS/ FOG LIGHTS

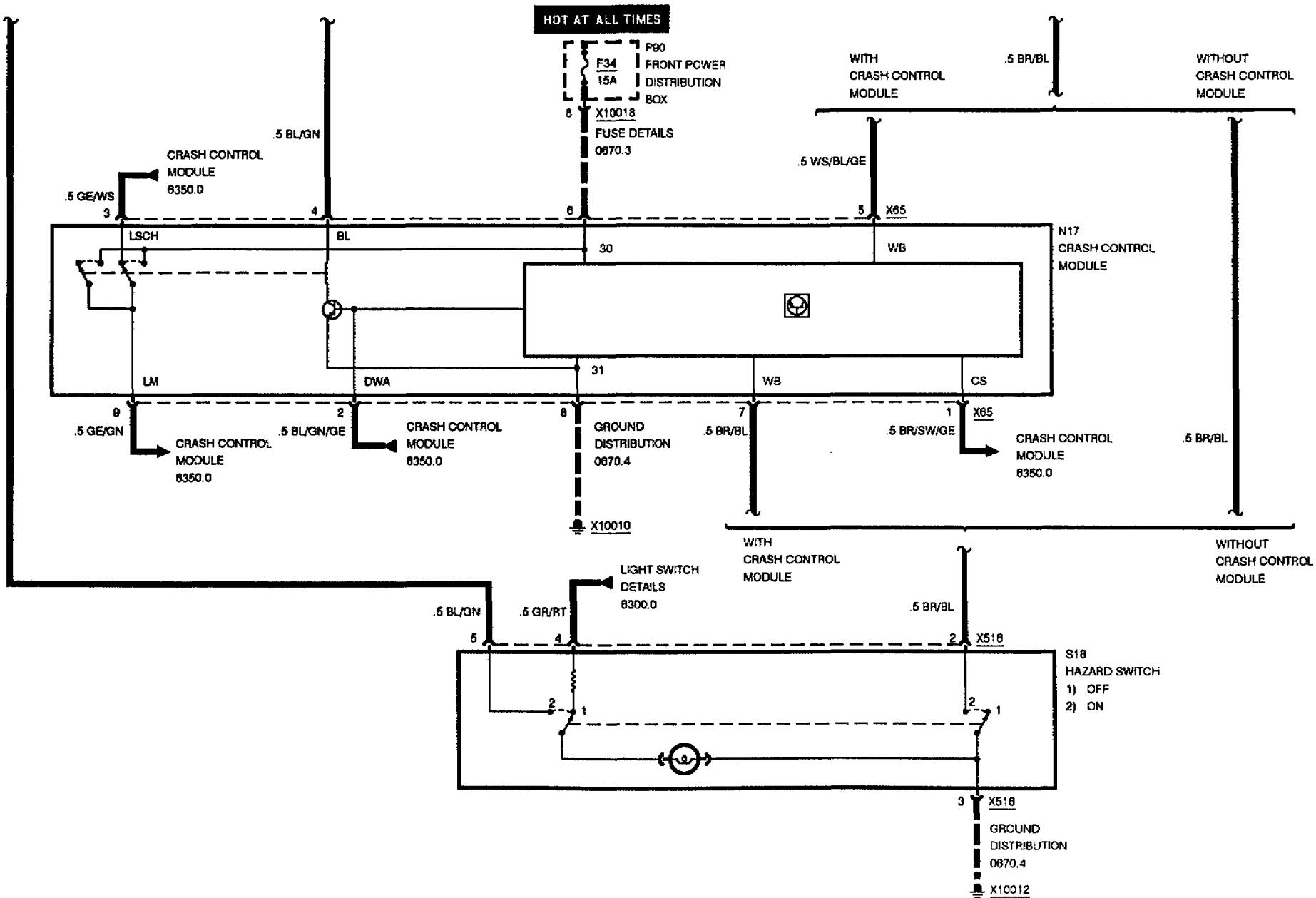



POWER
DISTRIBUTION
0670.2
HOT AT ALL TIMES
X0
P90
FRONT POWER
DISTRIBUTION
BOX
X2
POWER
DISTRIBUTION
0670.2
.5 GE/VI
2
X504
S10
FOG LIGHT
SWITCH
0) OFF
1) FRONT FOG
LIGHTS ON
0
1
1
X504
.5 GE/GR
6
8
X44
30
86
K47
FRONT FOG
LIGHT RELAY
87b
85
5
1 RT/GE
4
X44
.5 RT/WS
9
X10018
P90
FRONT POWER
DISTRIBUTION
BOX
F15
15A
10
X10016
FUSE DETAILS
0670.3
D
6312.0-04
.75 GE/BR
.75 GE/BR
.5 GE/BR
2
X768
E26
LEFT
FOG LIGHT
1
X768
2
X769
E27
RIGHT
FOG LIGHT
1
X769
8
X17
A2w
INSTRUMENT
CLUSTER
3
X17
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X165
X173

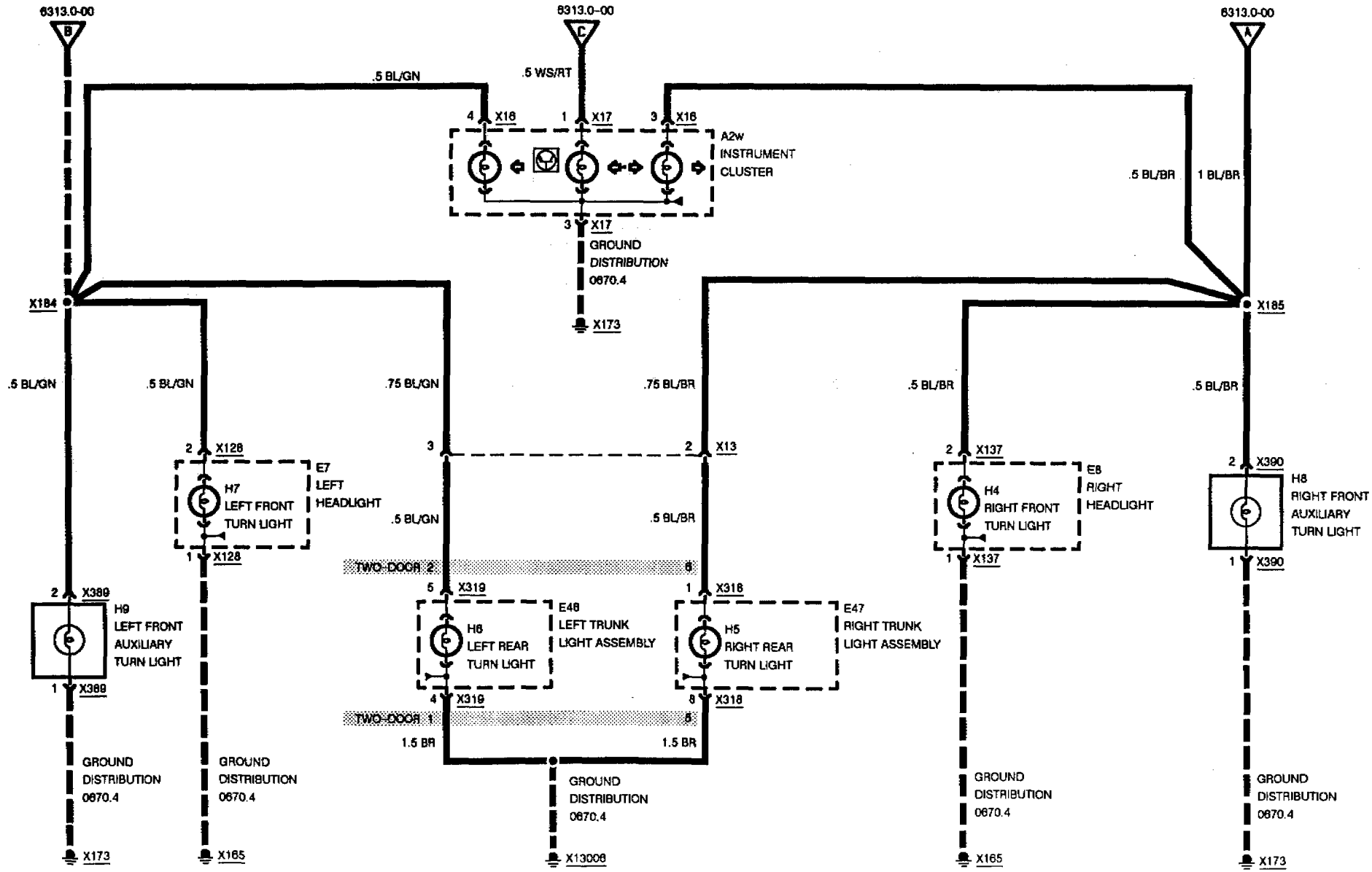

POWER DISTRIBUTION 0670.2
HOT AT ALL TIMES
X0
P90 FRONT POWER DISTRIBUTION BOX
X2
POWER DISTRIBUTION 0670.2
6312.0-00 USA
6312.0-02 CDN
B
.5 GE
.5 GE/GN
8
X45
K46 LOW BEAM LIGHT RELAY
30
86
87
85
2
4
X45
2.5 GE
.5 BR
1
X10035
56b
F11 7.5A
F12 7.5A
P90 FRONT POWER DISTRIBUTION BOX
X10016
FUSE DETAILS 0670.3
WITH CCM
WITHOUT CCM
8
X1074
N4 ON-BOARD COMPUTER
12
X1074
1 GE/GN
15
13
1 GE/BL
2
X10070
E13 LEFT LOW BEAM LIGHT
1
X10070
GROUND DISTRIBUTION 0670.4
X165
X10075
E14 RIGHT LOW BEAM LIGHT
X10075
6312.0-00 USA
6312.0-02 CDN
A
.5 WS
6
X43
K46 HIGH BEAM LIGHT RELAY
.5 BR
GROUND DISTRIBUTION 0670.4
X173
6312.0-01 USA
6312.0-03 CDN
D
.5 RT/WS
CDN
2.5 RT/WS
1.5 RT/WS
X1028
2.5 RT/WS
X10036
56a
F29 7.5A
F30 7.5A
18
20
X10017
X10071
E11 LEFT HIGH BEAM LIGHT
X10074
E12 RIGHT HIGH BEAM LIGHT

TURN/HAZARD LIGHTS

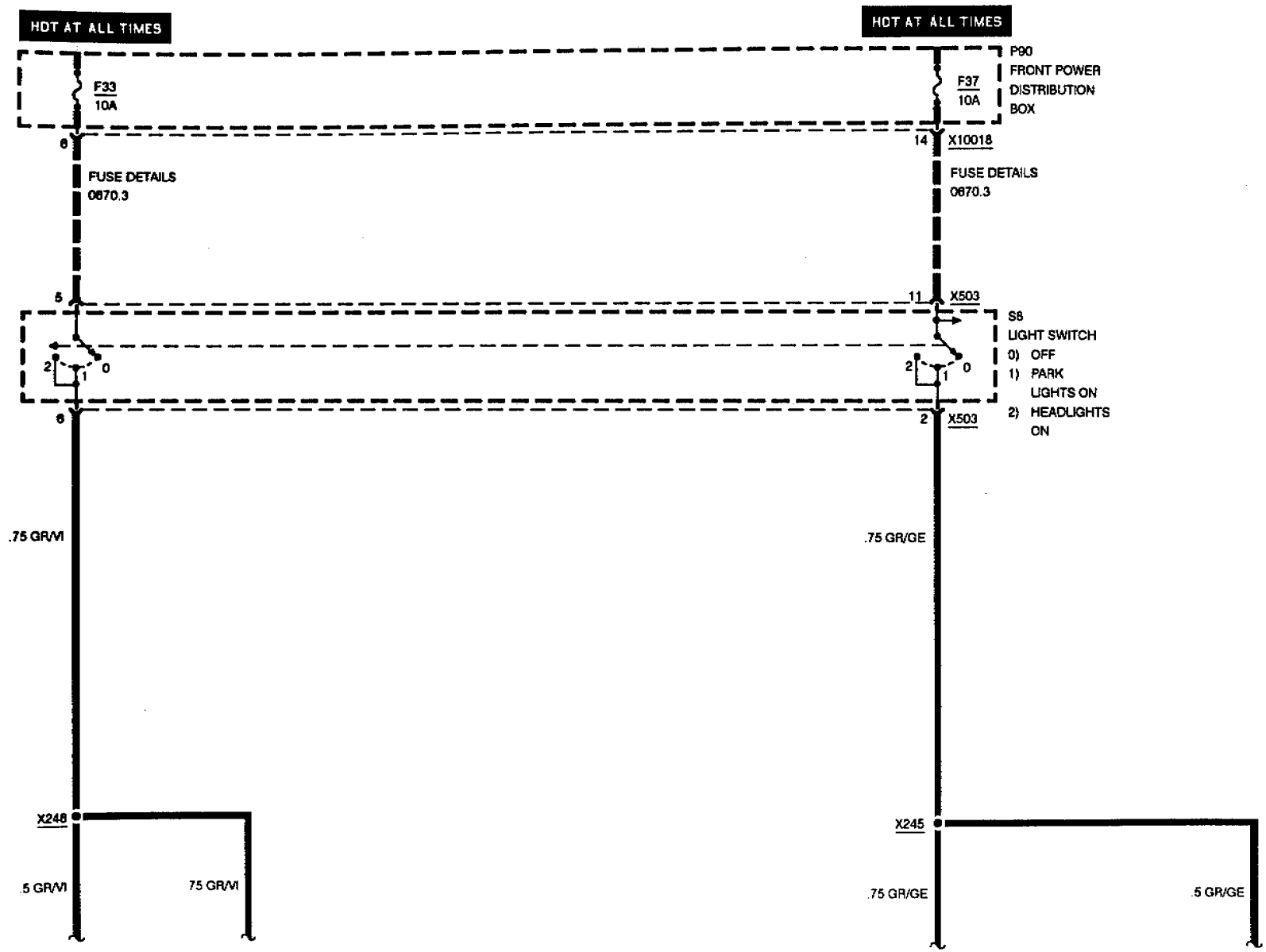


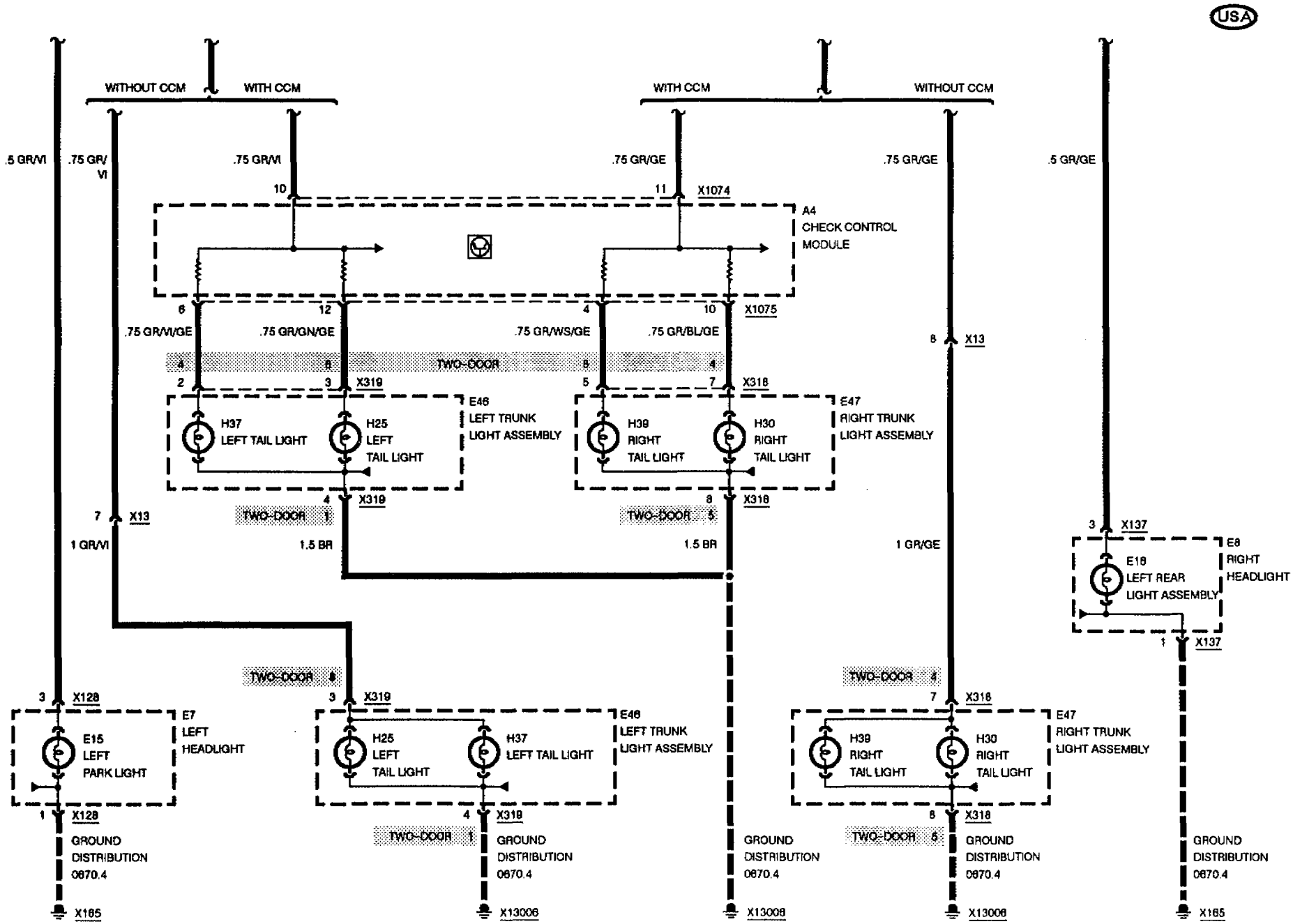

HOT AT ALL TIMES
P90
F34
15A
FRONT POWER
DISTRIBUTION
BOX
8
X10018
FUSE DETAILS
0670.3
WITH
CRASH CONTROL
MODULE
.5 BR/BL
WITHOUT
CRASH CONTROL
MODULE
.5 BL/GN
CRASH CONTROL
MODULE
6350.0
.5 GE/WS
3
4
6
.5 WS/BL/GE
5
X65
LSCH
BL
30
WB
N17
CRASH CONTROL
MODULE
LM
DWA
31
WB
CS
9
.5 GE/GN
CRASH CONTROL
MODULE
6350.0
2
.5 BL/GN/GE
CRASH CONTROL
MODULE
6350.0
8
GROUND
DISTRIBUTION
0670.4
X10010
7
.5 BR/BL
1
.5 BR/SW/GE
X65
CRASH CONTROL
MODULE
6350.0
.5 BR/BL
WITH
CRASH CONTROL
MODULE
WITHOUT
CRASH CONTROL
MODULE
LIGHT SWITCH
DETAILS
6300.0
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2
X518
S18
HAZARD SWITCH
1) OFF
2) ON
2
1
2
1
3
X518
GROUND
DISTRIBUTION
0670.4
X10012

TURN/HAZARD LIGHTS

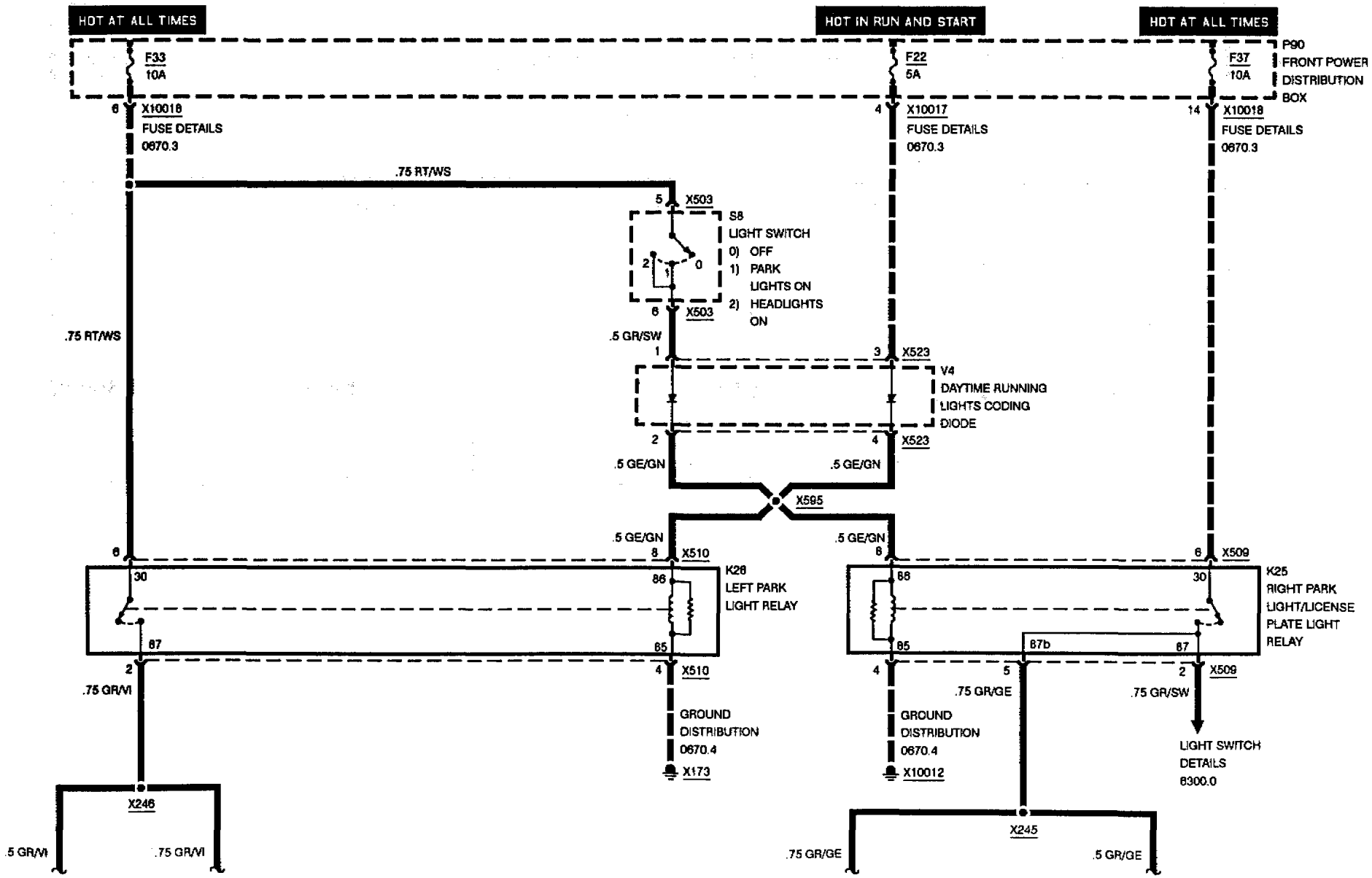


PARK/TAIL LIGHTS

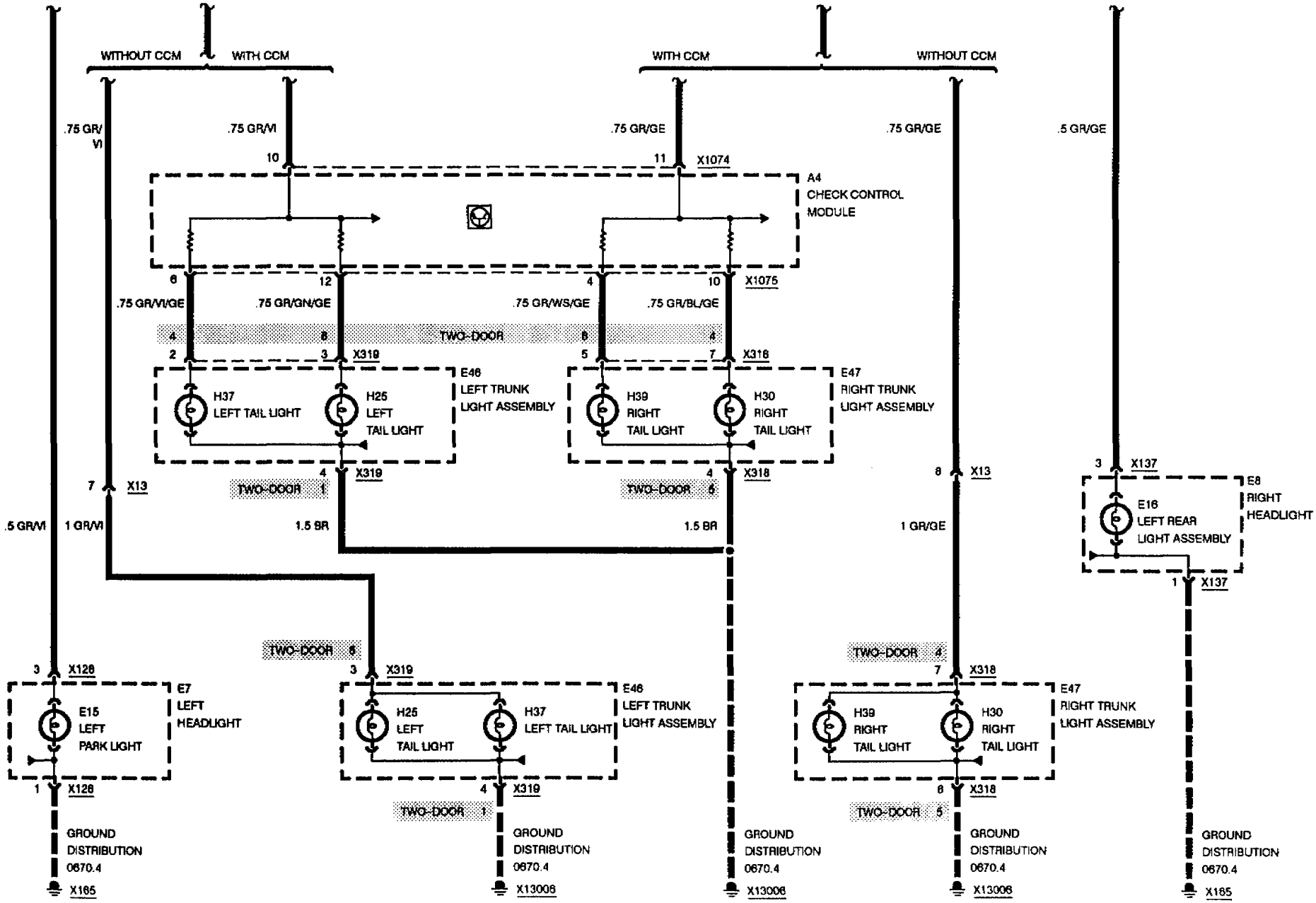



USA
WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.5 GR/VI
.75 GR/VI
.75 GR/VI
.75 GR/GE
.75 GR/GE
.5 GR/GE
10
11
X1074
A4
CHECK CONTROL MODULE
6
12
4
10
X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
8
X13
TWO-DOOR
4
6
8
4
2
3
X319
5
7
X318
E46
LEFT TRUNK LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT TAIL LIGHT
E47
RIGHT TRUNK LIGHT ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
7
X13
4
X319
8
X318
TWO-DOOR
1
TWO-DOOR
5
1 GR/VI
1.5 BR
1.5 BR
1 GR/GE
3
X137
E8
RIGHT HEADLIGHT
E18
LEFT REAR LIGHT ASSEMBLY
1
X137
TWO-DOOR
4
TWO-DOOR
4
3
X128
3
X319
7
X318
E7
LEFT HEADLIGHT
E15
LEFT PARK LIGHT
E46
LEFT TRUNK LIGHT ASSEMBLY
H25
LEFT TAIL LIGHT
H37
LEFT TAIL LIGHT
E47
RIGHT TRUNK LIGHT ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
1
X128
4
X319
8
X318
GROUND DISTRIBUTION 0670.4
TWO-DOOR
1
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
TWO-DOOR
5
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X165
X13006
X13006
X13006
X165

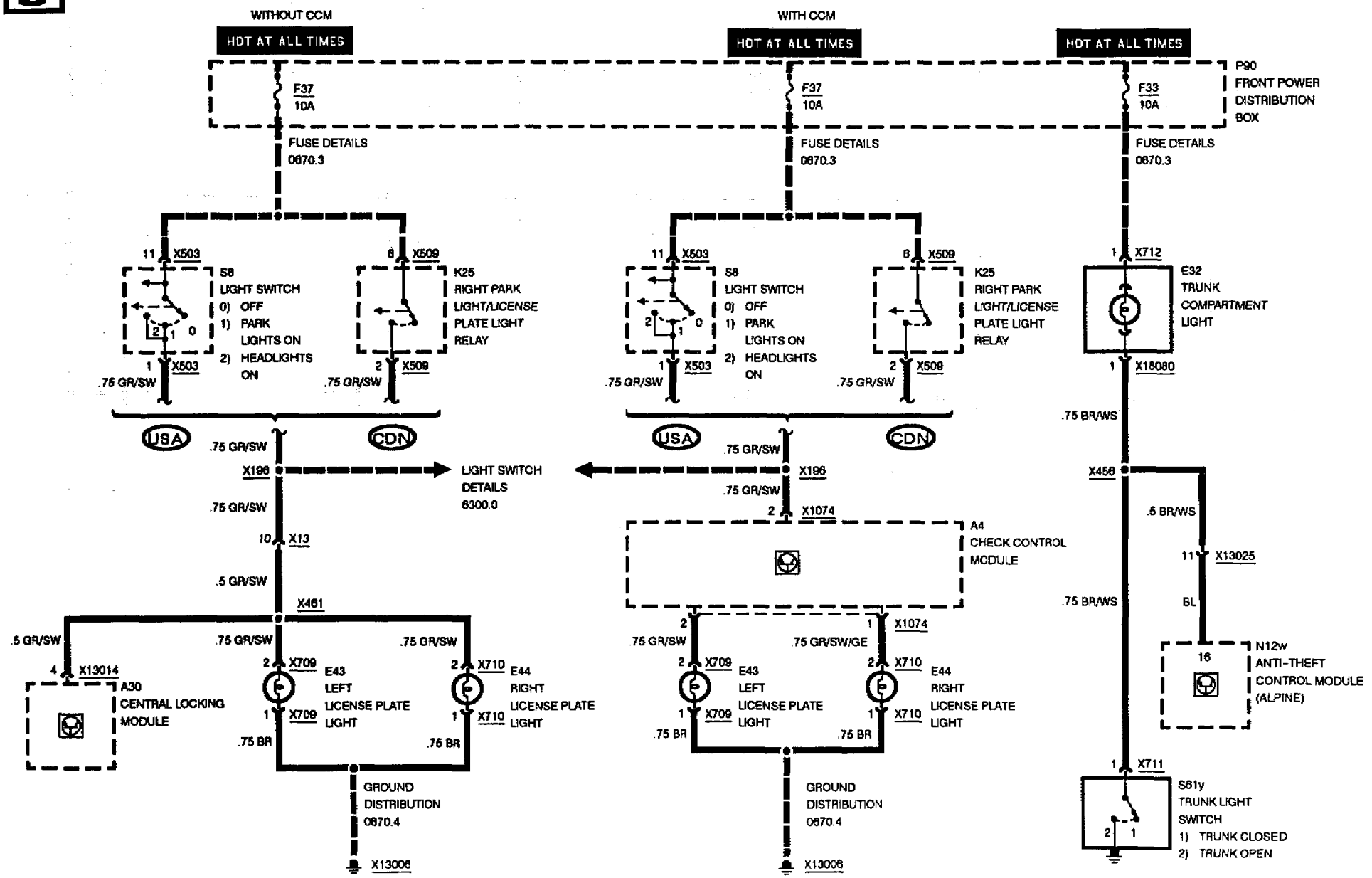
PARK/TAIL LIGHTS



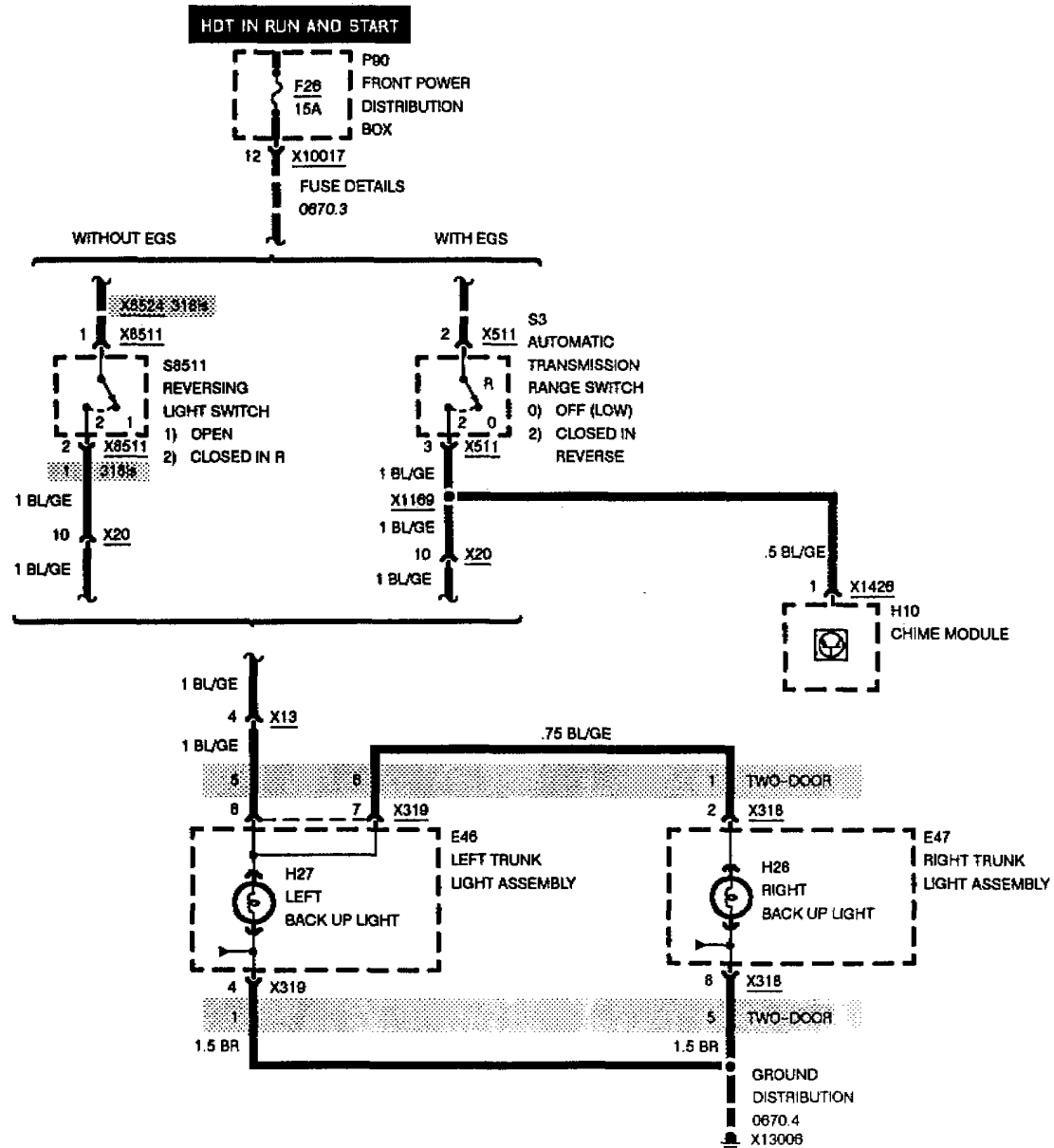
CDN


WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.75 GR/VI
.75 GR/VI
.75 GR/GE
.75 GR/GE
.5 GR/GE
10
11
X1074
A4
CHECK CONTROL MODULE
6
12
4
10
X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
TWO-DOOR
2
3
X319
5
7
X316
E46
LEFT TRUNK LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT
TAIL LIGHT
E47
RIGHT TRUNK LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
7
X13
4
X319
TWO-DOOR 1
4
X318
TWO-DOOR 5
8
X13
3
X137
E8
RIGHT HEADLIGHT
E16
LEFT REAR LIGHT ASSEMBLY
1
X137
.5 GR/VI
1 GR/VI
1.5 BR
1.5 BR
1 GR/GE
TWO-DOOR 6
TWO-DOOR 4
3
X126
3
X319
7
X318
E7
LEFT HEADLIGHT
E15
LEFT
PARK LIGHT
E46
LEFT TRUNK LIGHT ASSEMBLY
H25
LEFT
TAIL LIGHT
H37
LEFT TAIL LIGHT
E47
RIGHT TRUNK LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
1
X126
4
X319
8
X318
TWO-DOOR 1
TWO-DOOR 5
GROUND DISTRIBUTION 0670.4
X165
GROUND DISTRIBUTION 0670.4
X13006
GROUND DISTRIBUTION 0670.4
X13006
GROUND DISTRIBUTION 0670.4
X13006
GROUND DISTRIBUTION 0670.4
X165

LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

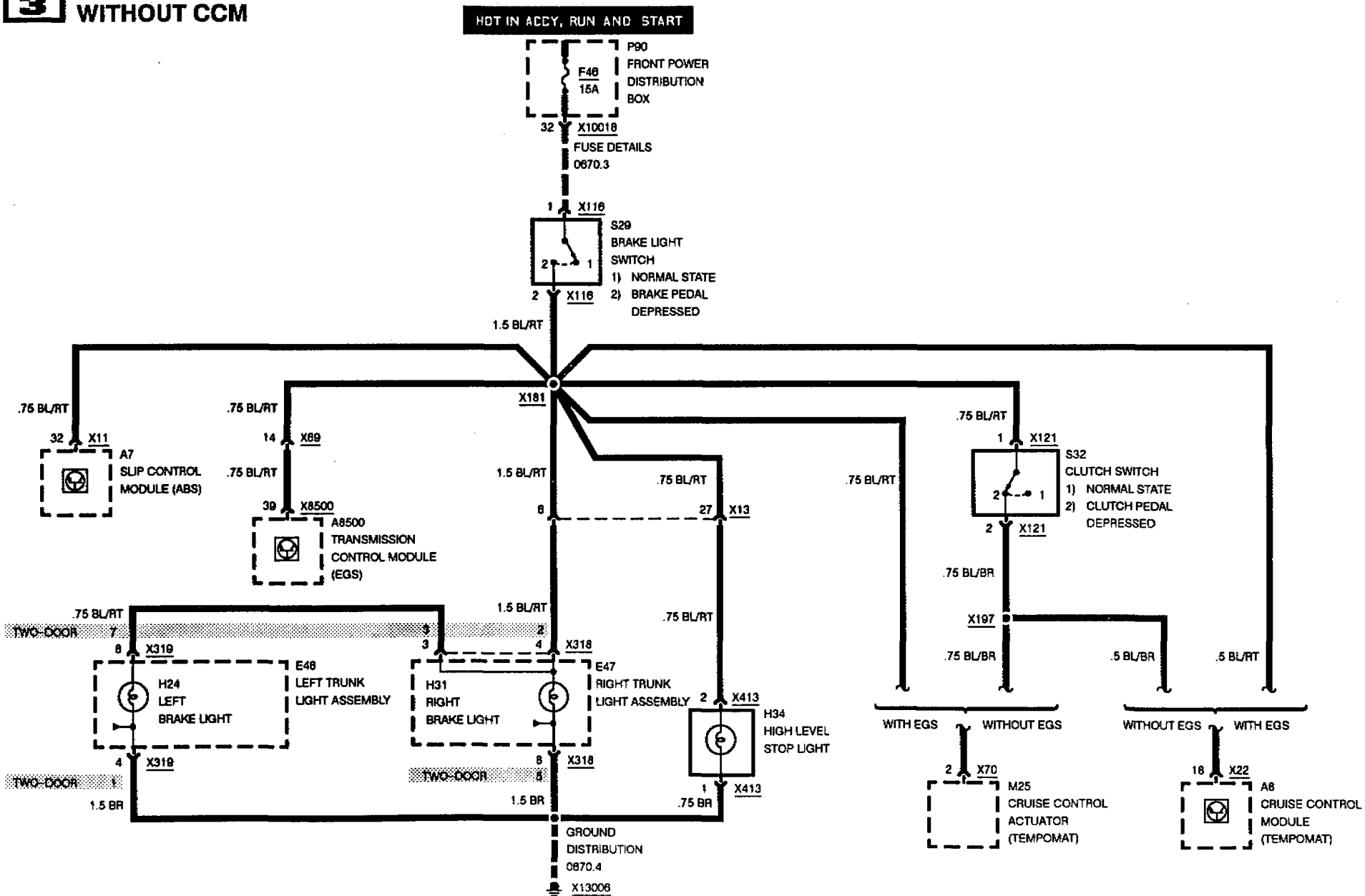


BACK UP LIGHTS

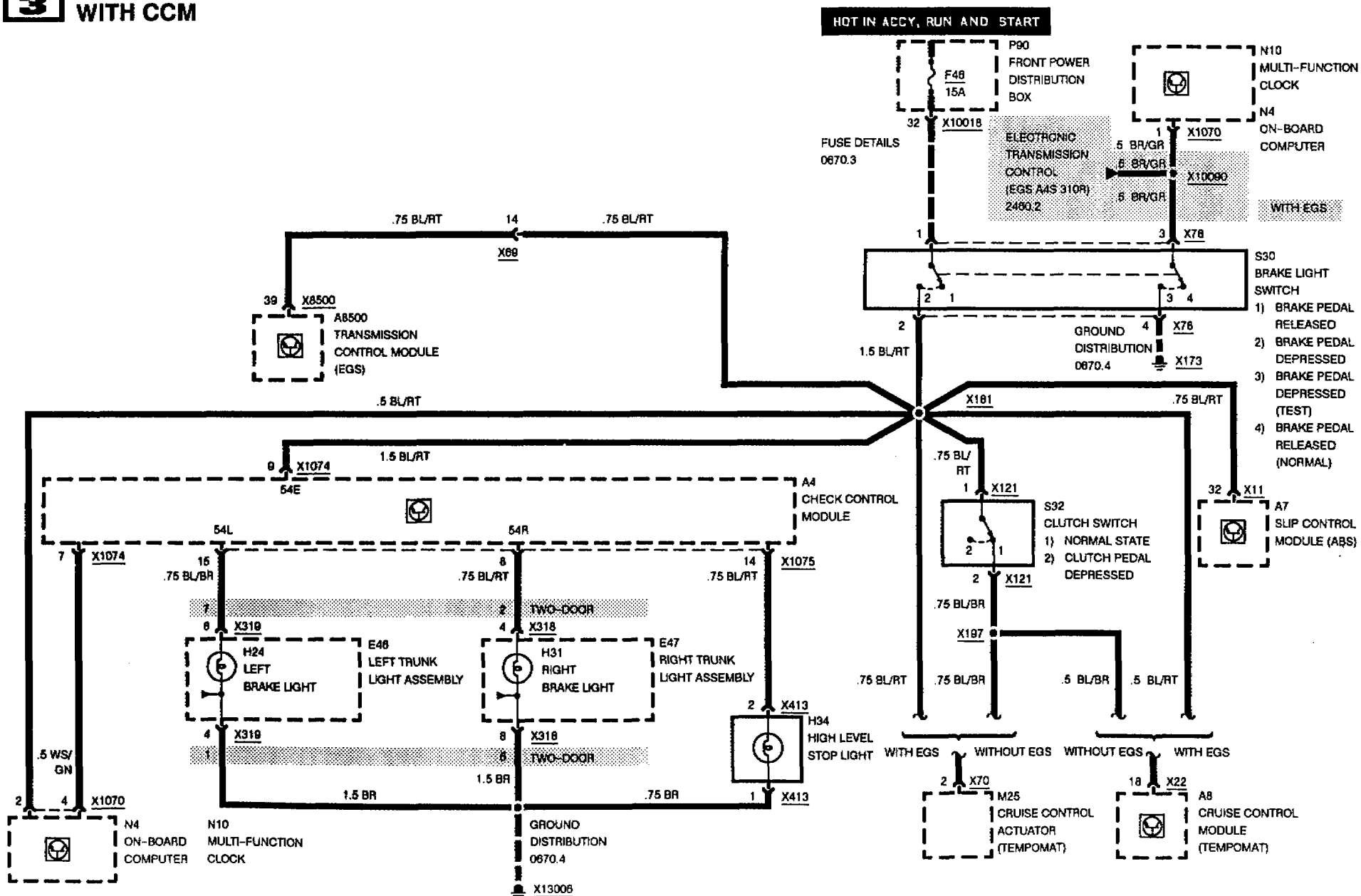


BRAKE LIGHTS

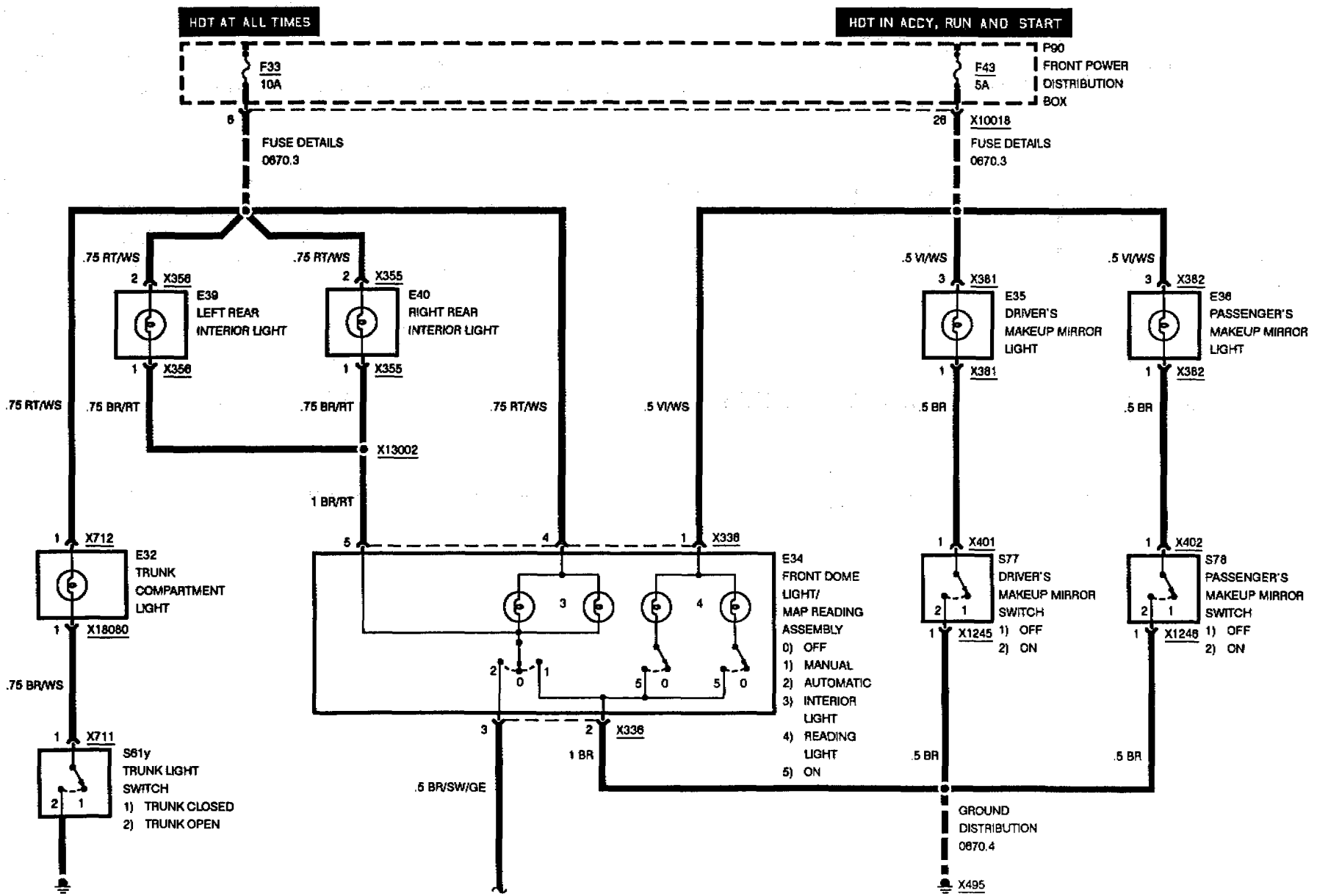
WITHOUT CCM

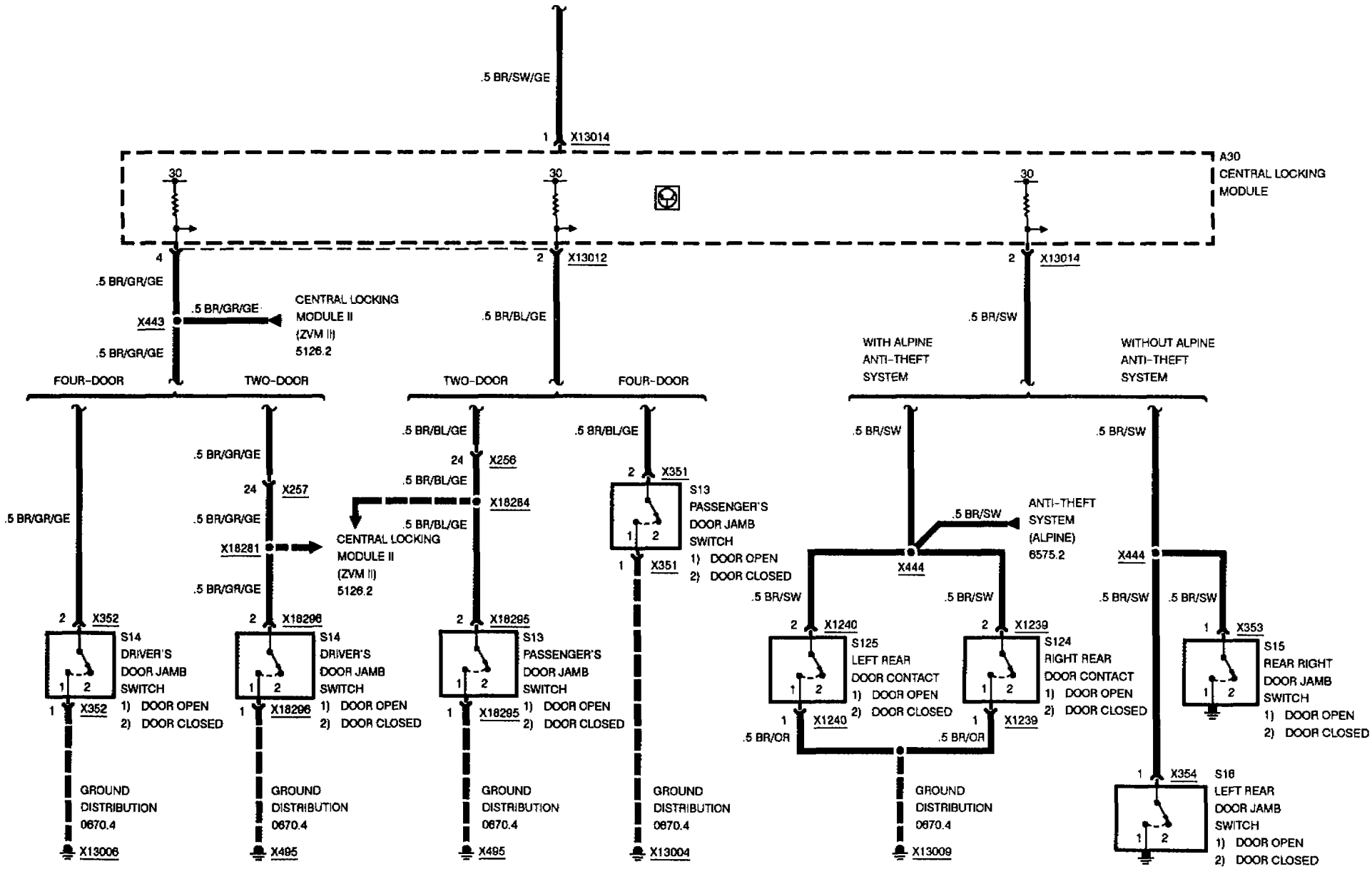


BRAKE LIGHTS
WITH CCM

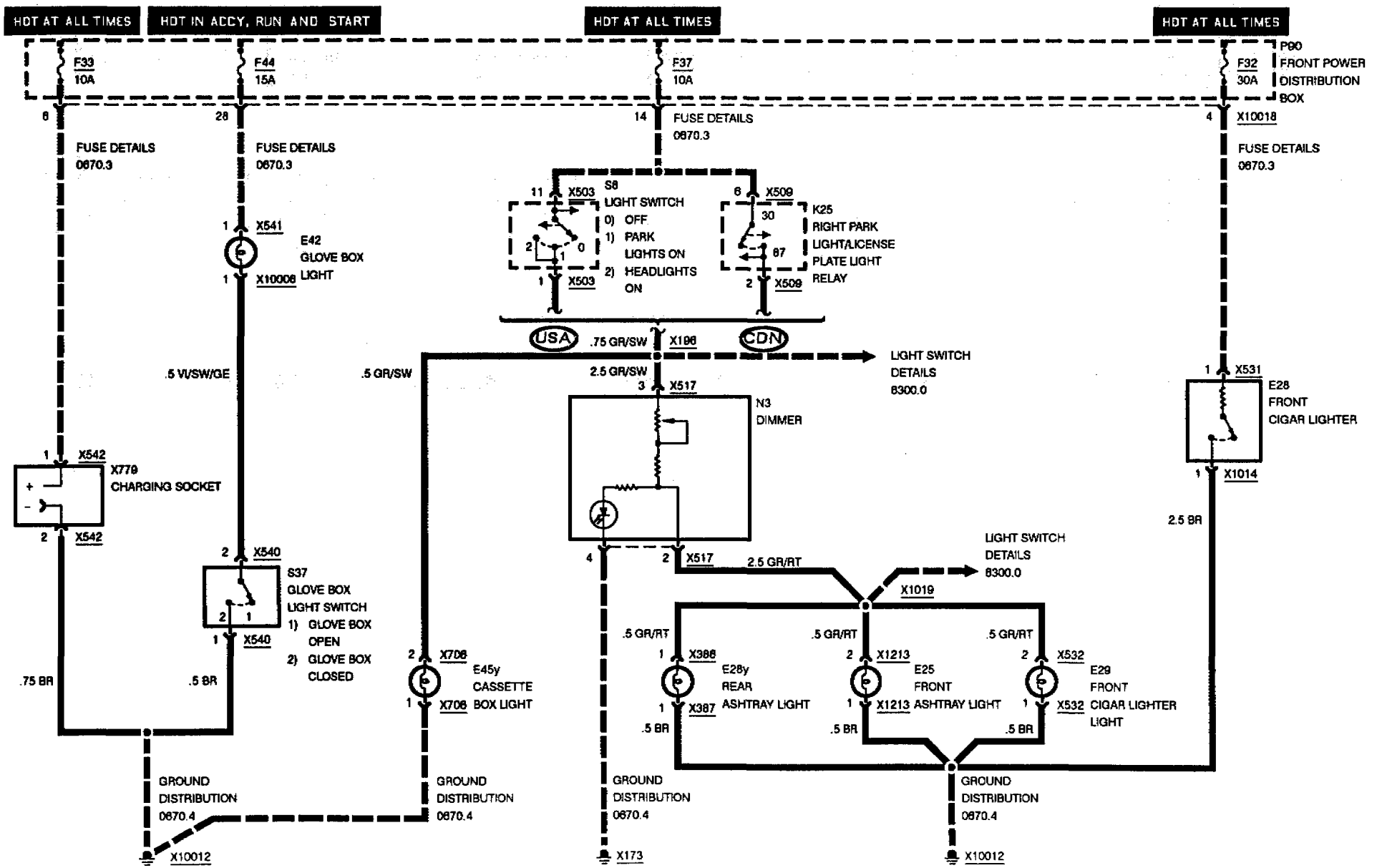


INTERIOR LIGHTS

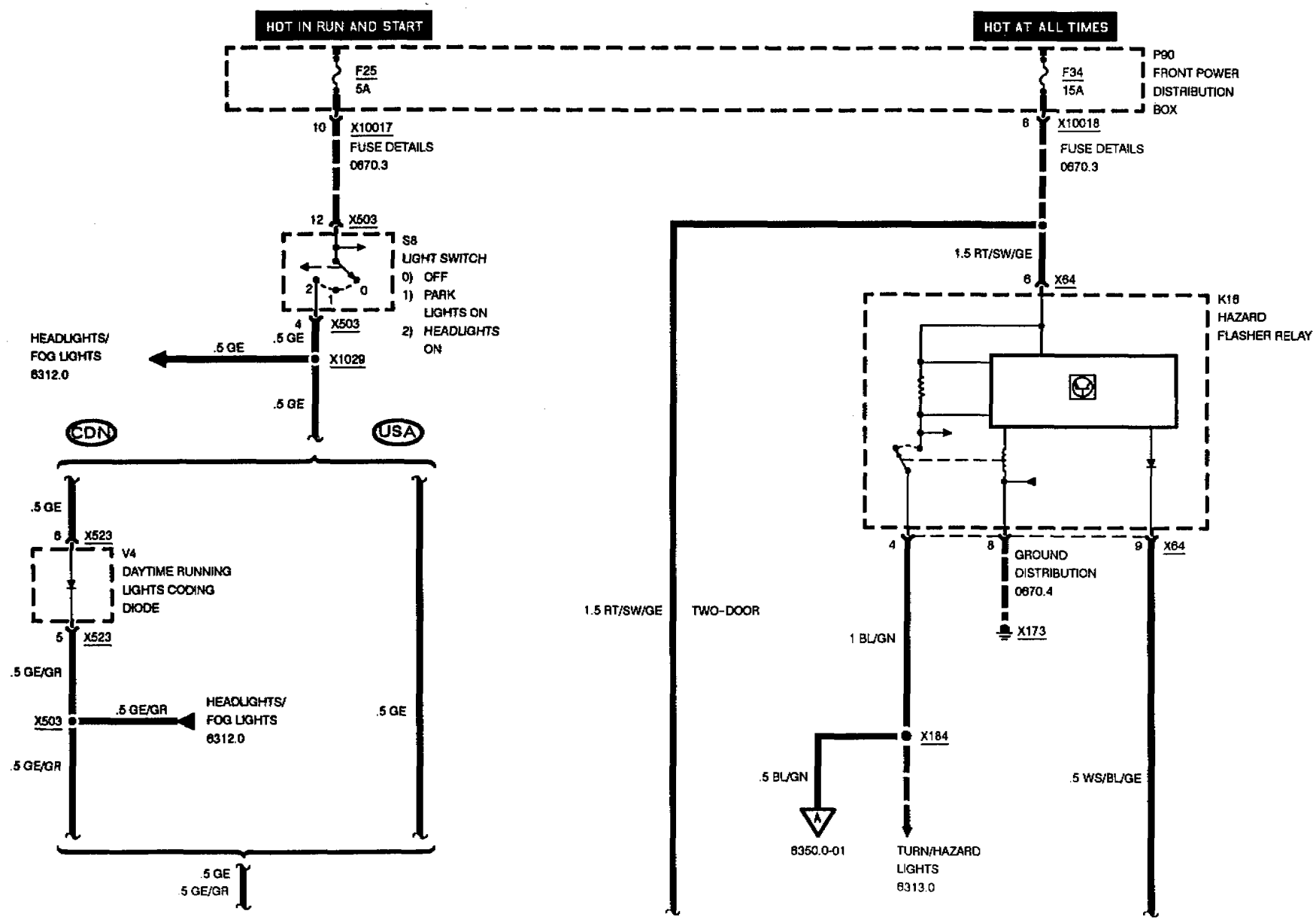


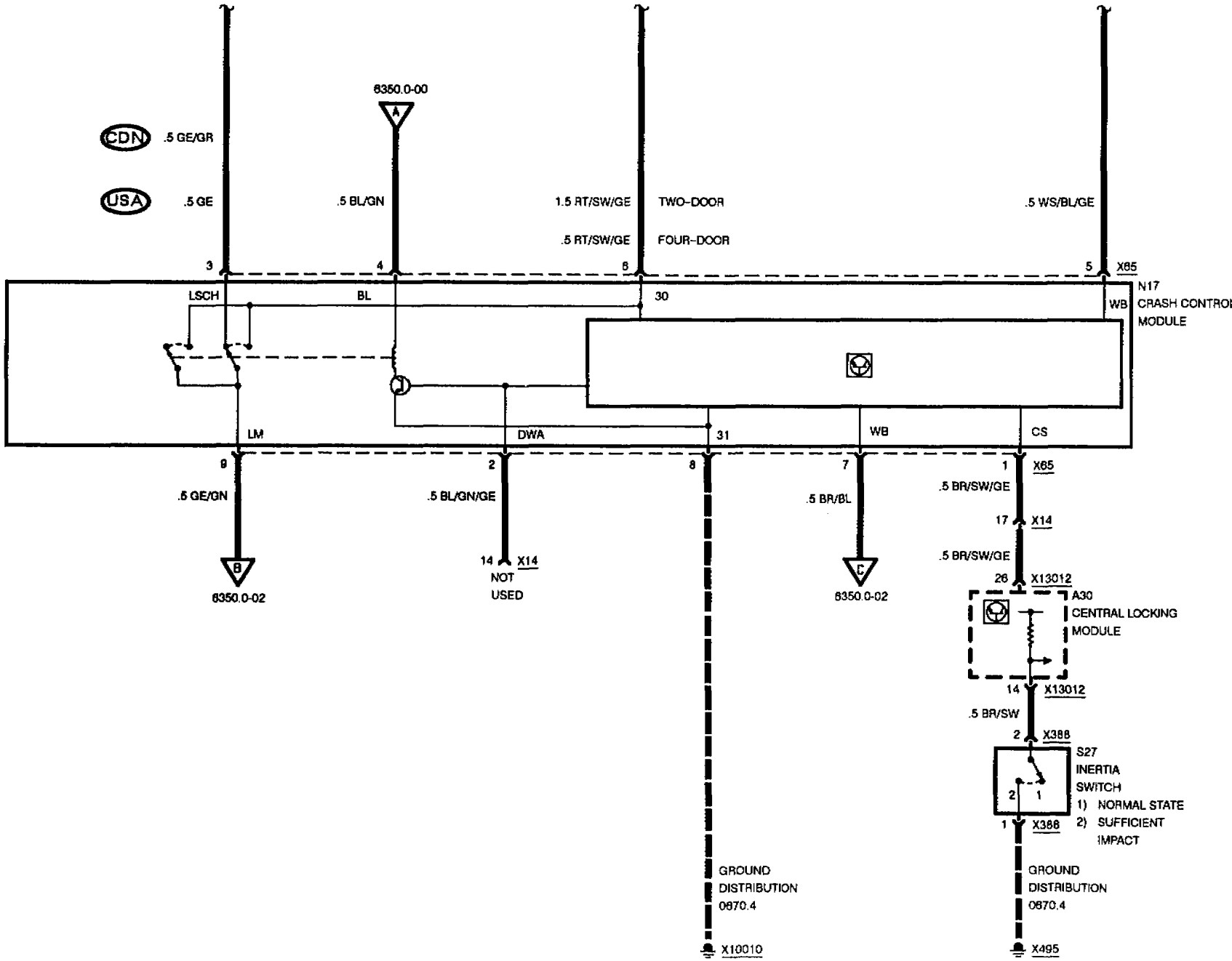

.5 BR/SW/GE
1 X13014
A30
CENTRAL LOCKING
MODULE
30
30
30
4
2 X13012
2 X13014
.5 BR/GR/GE
.5 BR/GR/GE
X443
.5 BR/GR/GE
CENTRAL LOCKING
MODULE II
(ZVM II)
5126.2
.5 BR/GR/GE
.5 BR/BL/GE
.5 BR/SW
FOUR-DOOR
TWO-DOOR
TWO-DOOR
FOUR-DOOR
WITH ALPINE
ANTI-THEFT
SYSTEM
WITHOUT ALPINE
ANTI-THEFT
SYSTEM
.5 BR/GR/GE
.5 BR/GR/GE
.5 BR/BL/GE
.5 BR/BL/GE
.5 BR/SW
.5 BR/SW
2 X352
24 X257
24 X256
2 X351
X444
2 X1240
2 X1239
1 X353
S14
DRIVER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
.5 BR/GR/GE
X18281
.5 BR/GR/GE
.5 BR/BL/GE
X18284
.5 BR/BL/GE
CENTRAL LOCKING
MODULE II
(ZVM II)
5126.2
.5 BR/SW
ANTI-THEFT
SYSTEM
(ALPINE)
6575.2
S13
PASSENGER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
S125
LEFT REAR
DOOR CONTACT
1) DOOR OPEN
2) DOOR CLOSED
S124
RIGHT REAR
DOOR CONTACT
1) DOOR OPEN
2) DOOR CLOSED
S15
REAR RIGHT
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
.5 BR/SW
.5 BR/SW
.5 BR/SW
.5 BR/SW
2 X18296
2 X18295
1 X352
1 X18296
1 X18295
1 X351
1 X1240
1 X1239
1 X354
S14
DRIVER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
S13
PASSENGER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
.5 BR/OR
.5 BR/OR
S16
LEFT REAR
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X13006
X495
X495
X13004
X13009

GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

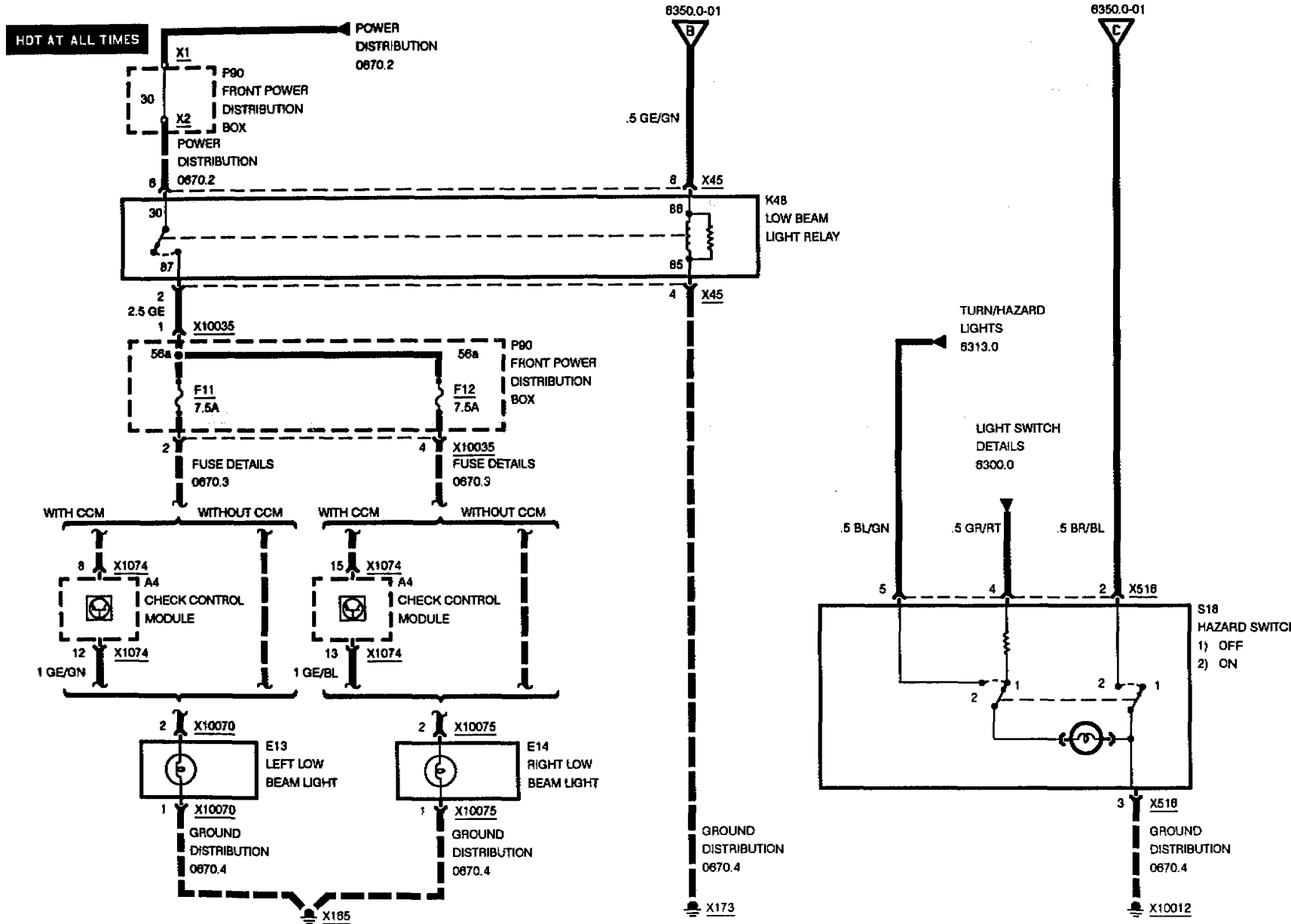


CRASH CONTROL MODULE

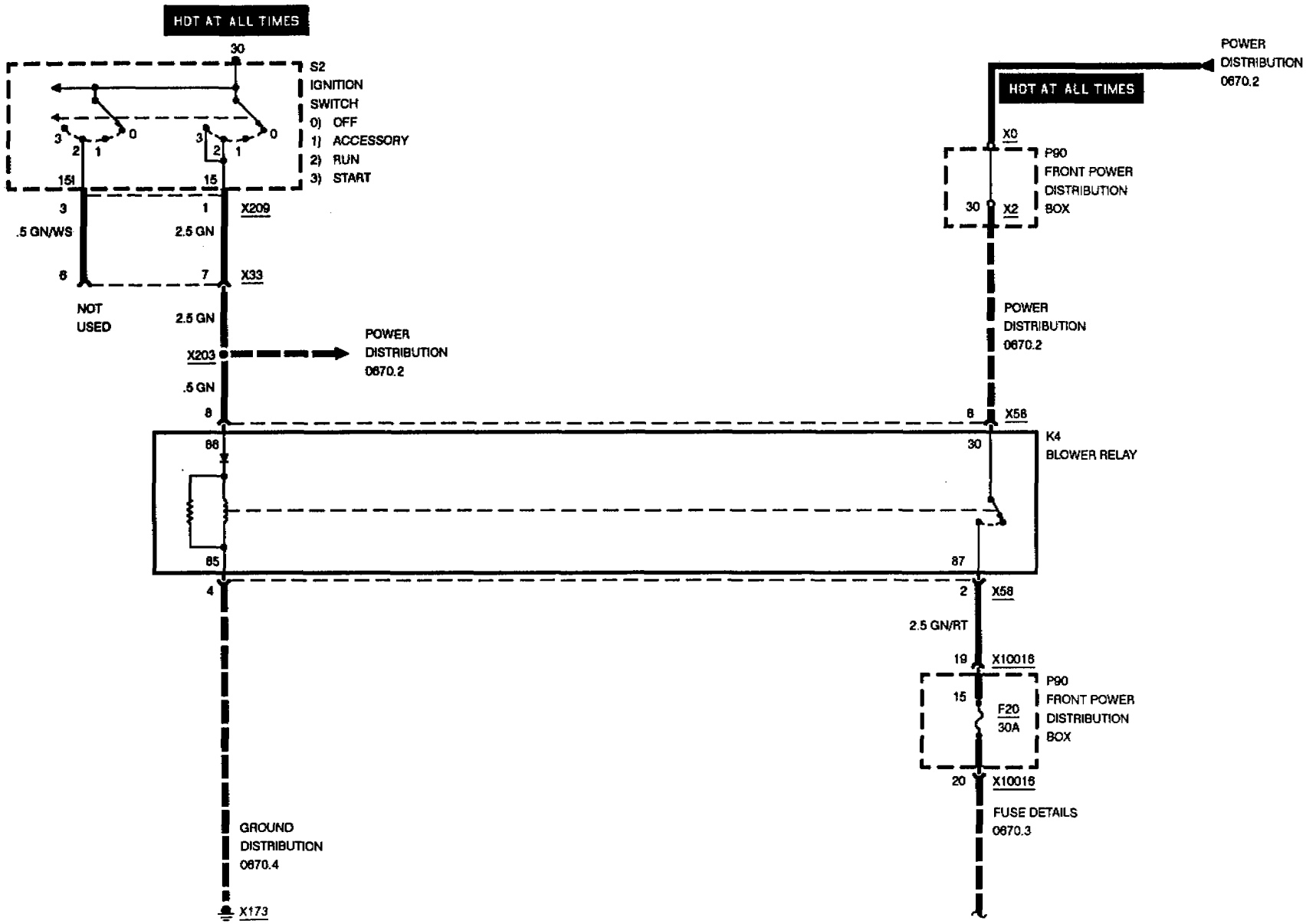



6350.0-00
A
CDN .5 GE/GR
USA .5 GE
.5 BL/GN
1.5 RT/SW/GE TWO-DOOR
.5 RT/SW/GE FOUR-DOOR
.5 WS/BL/GE
3
4
6
5 X65
N17
CRASH CONTROL MODULE
LSCH
BL
30
WB
LM
DWA
31
WB
CS
9
2
8
7
1 X65
.5 GE/GN
.5 BL/GN/GE
.5 BR/BL
.5 BR/SW/GE
17 X14
.5 BR/SW/GE
26 X13012
B
6350.0-02
14 X14
NOT USED
C
6350.0-02
A30
CENTRAL LOCKING MODULE
14 X13012
.5 BR/SW
2 X388
S27
INERTIA SWITCH
1) NORMAL STATE
2) SUFFICIENT IMPACT
1 X388
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X10010
X495

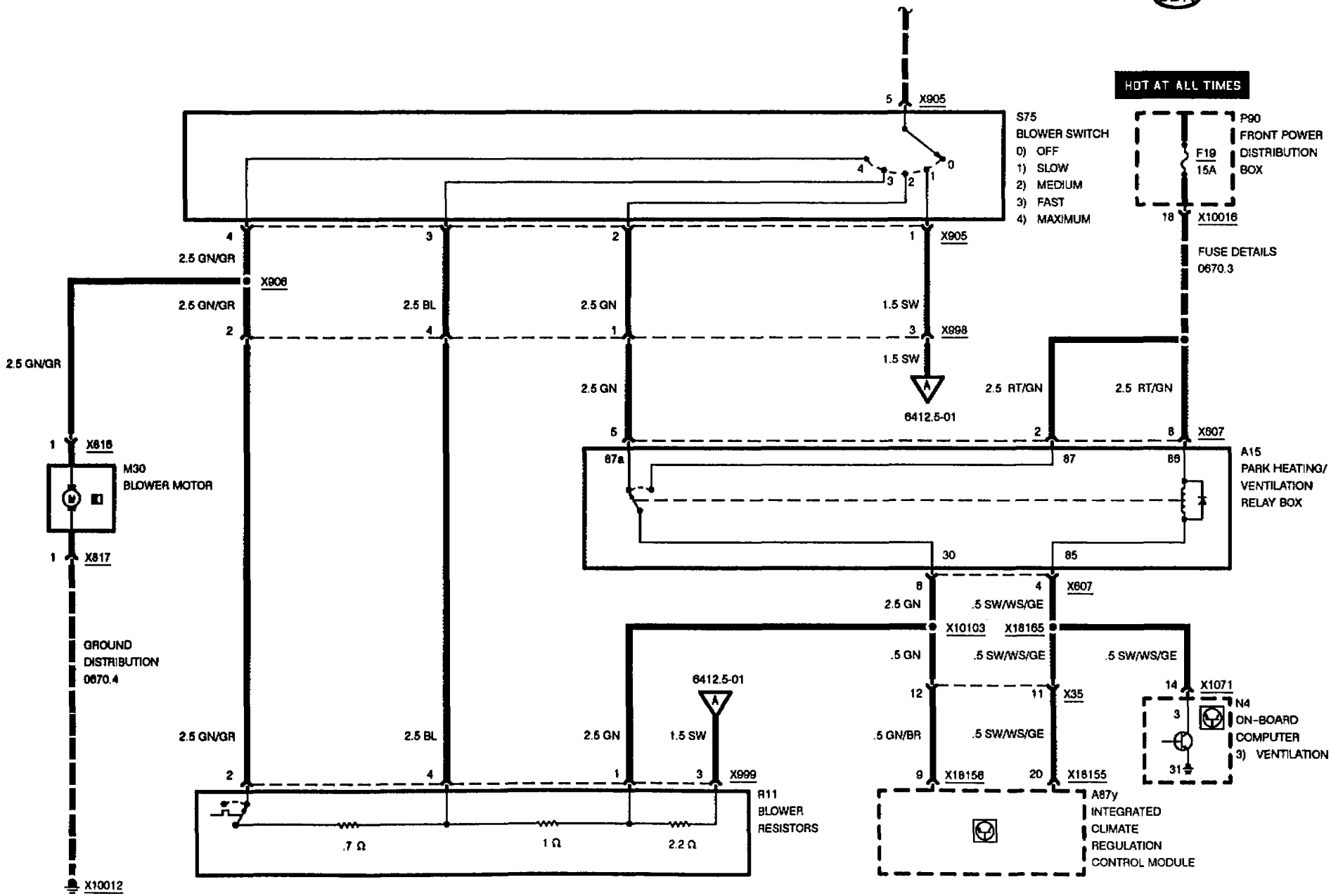
CRASH CONTROL MODULE



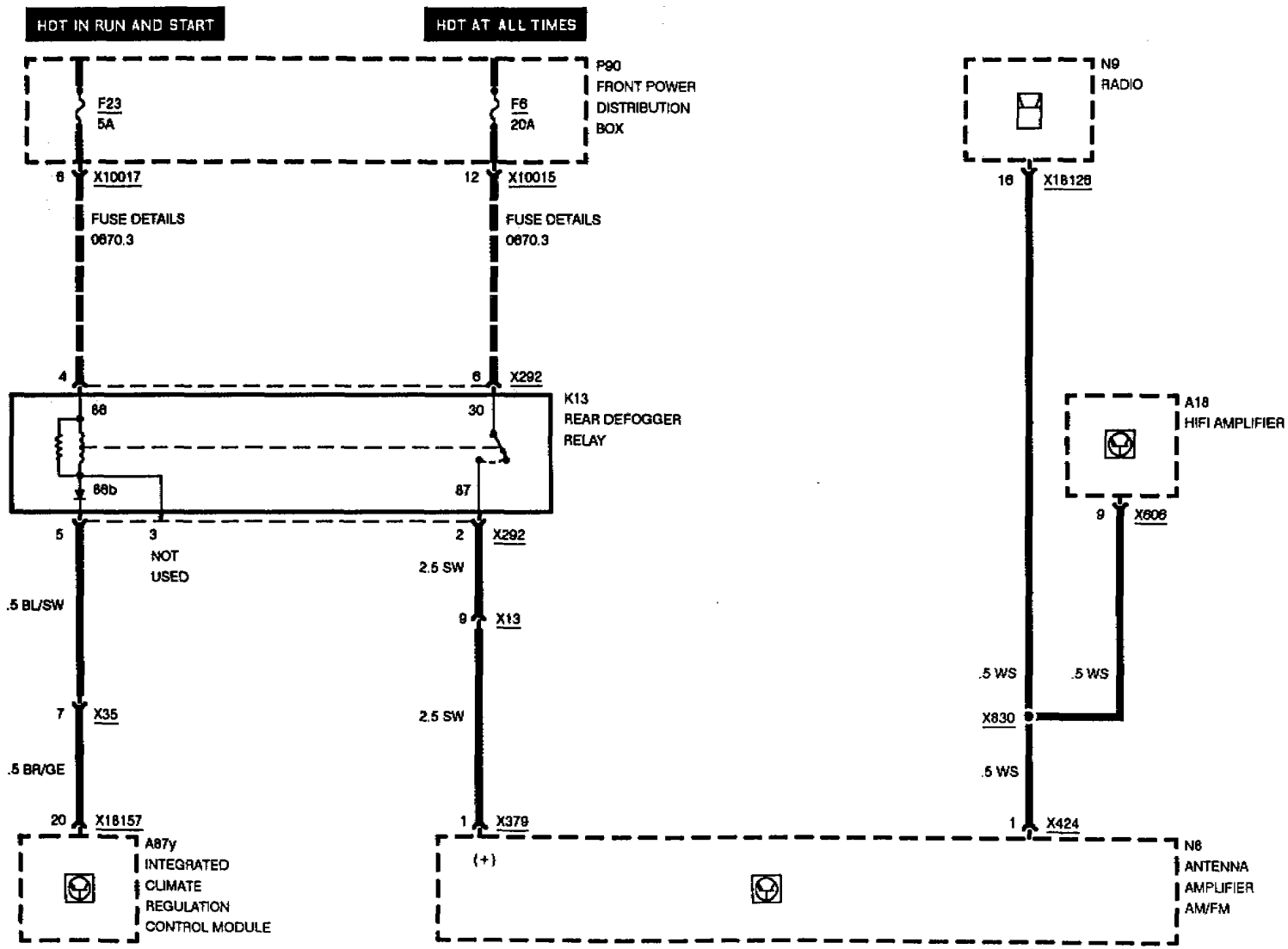
PARK VENTILATION WITH IHKR



CDN

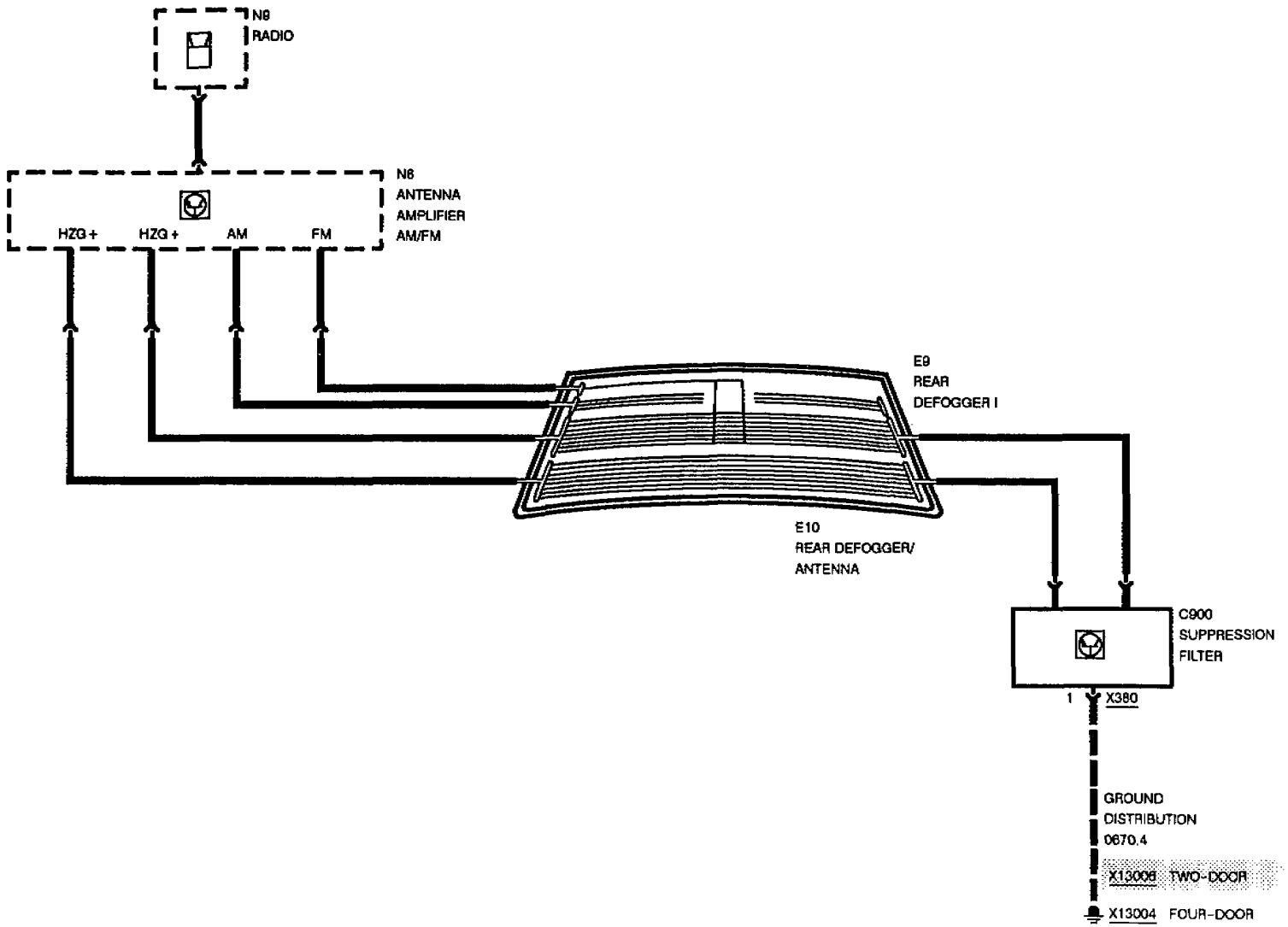

HOT AT ALL TIMES
5 X905
S75
BLOWER SWITCH
0) OFF
1) SLOW
2) MEDIUM
3) FAST
4) MAXIMUM
P90
FRONT POWER
DISTRIBUTION
BOX
F19
15A
18 X10016
FUSE DETAILS
0670.3
4 3 2 1 X905
2.5 GN/GR
X906
2.5 GN/GR
2.5 BL
2.5 GN
1.5 SW
2 4 1 3 X998
1.5 SW
2.5 GN
6412.5-01
2.5 RT/GN
2.5 RT/GN
5 2 8 X607
1 X616
M30
BLOWER MOTOR
87a 87 86
A15
PARK HEATING/
VENTILATION
RELAY BOX
1 X817
30 85
6 2.5 GN
4 X607
.5 SW/WS/GE
X10103 X18165
.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
GROUND
DISTRIBUTION
0670.4
6412.5-01
12 11 X35
14 X1071
N4
ON-BOARD
COMPUTER
3) VENTILATION
2.5 GN/GR
2.5 BL
2.5 GN
1.5 SW
.5 GN/BR
.5 SW/WS/GE
2 4 1 3 X999
9 X18156
20 X18155
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
R11
BLOWER
RESISTORS
.7 Ω
1 Ω
2.2 Ω
X10012

REAR WINDOW DEFOGGER

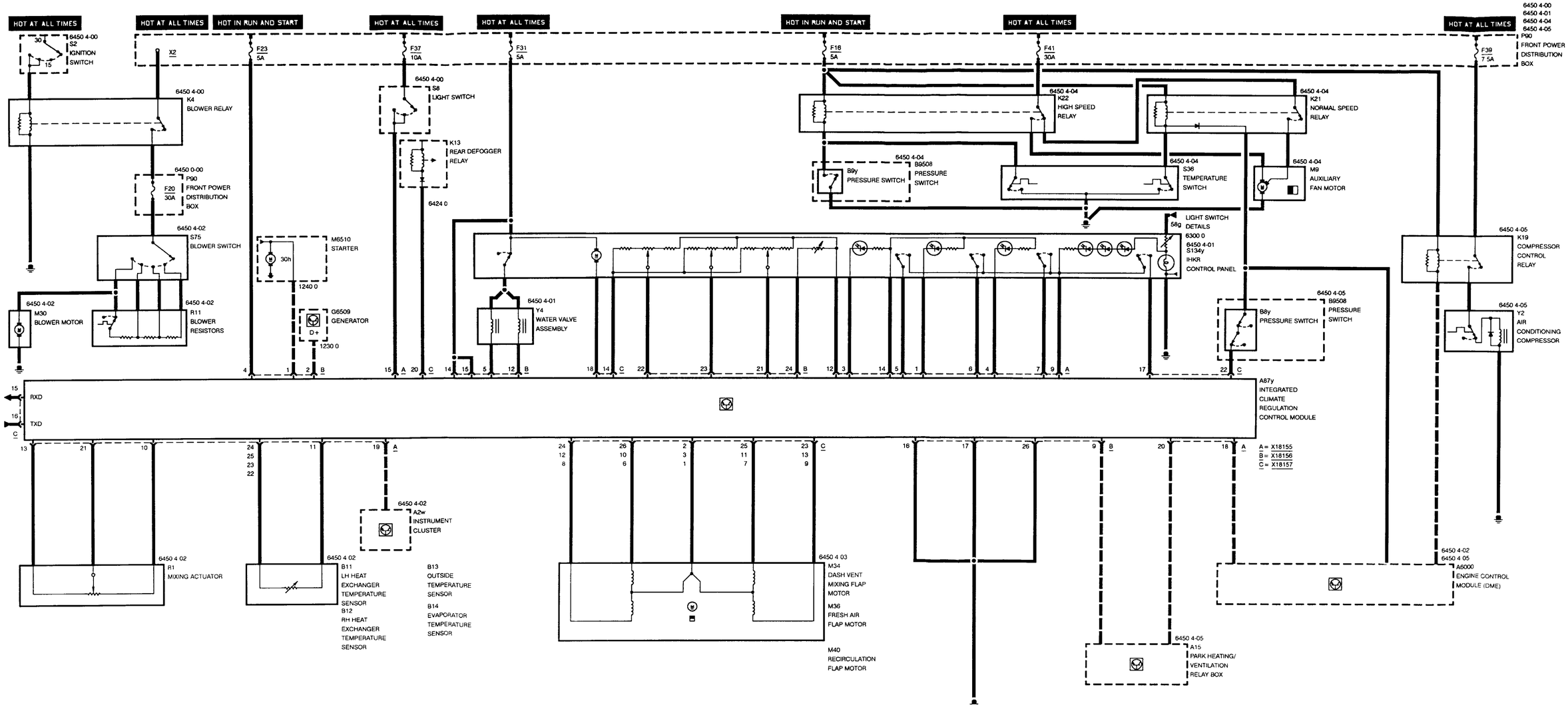


REAR WINDOW DEFOGGER

REAR WINDOW ANTENNA

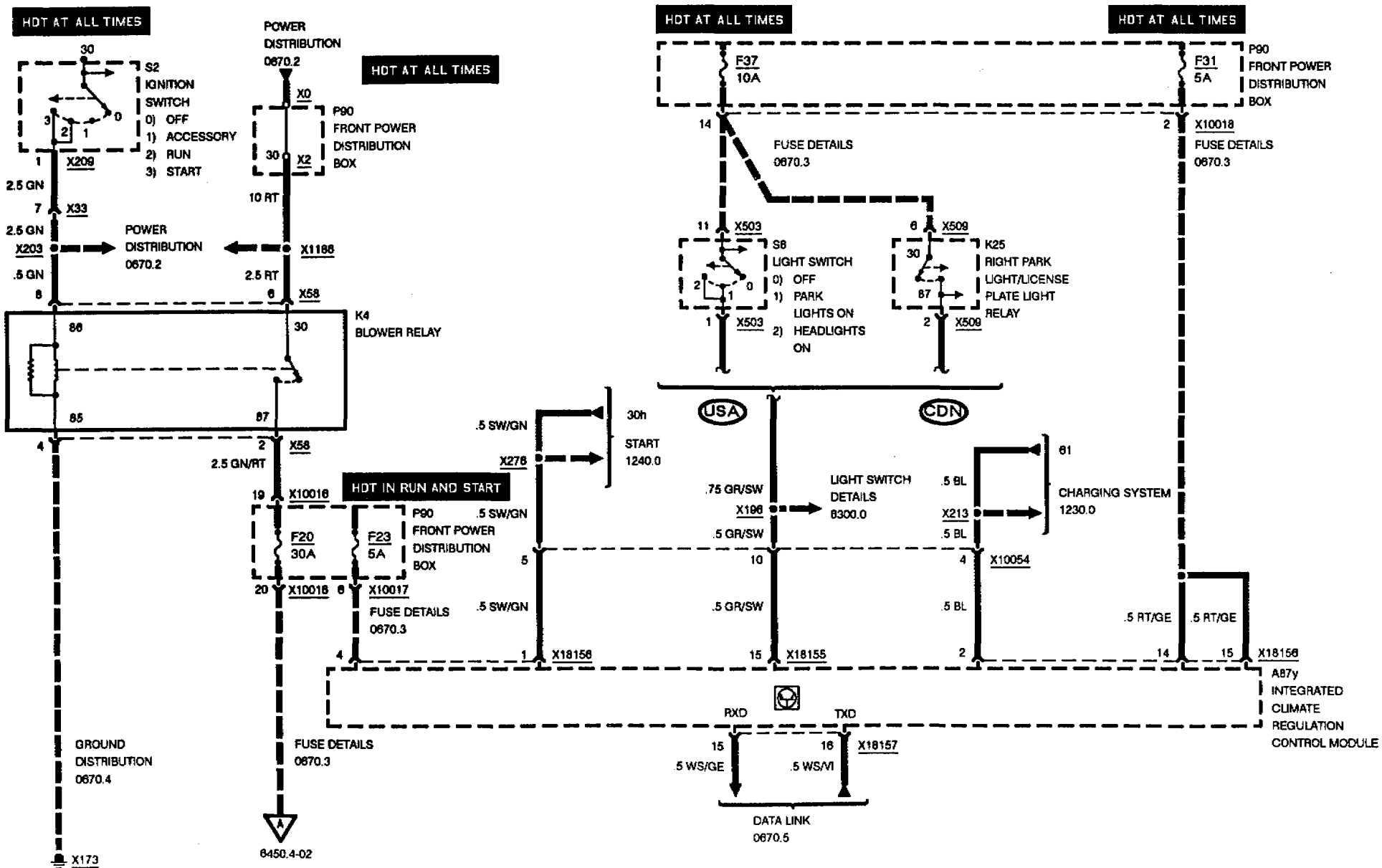


11/92 6450.4 1992
11/92 6450 4 1992



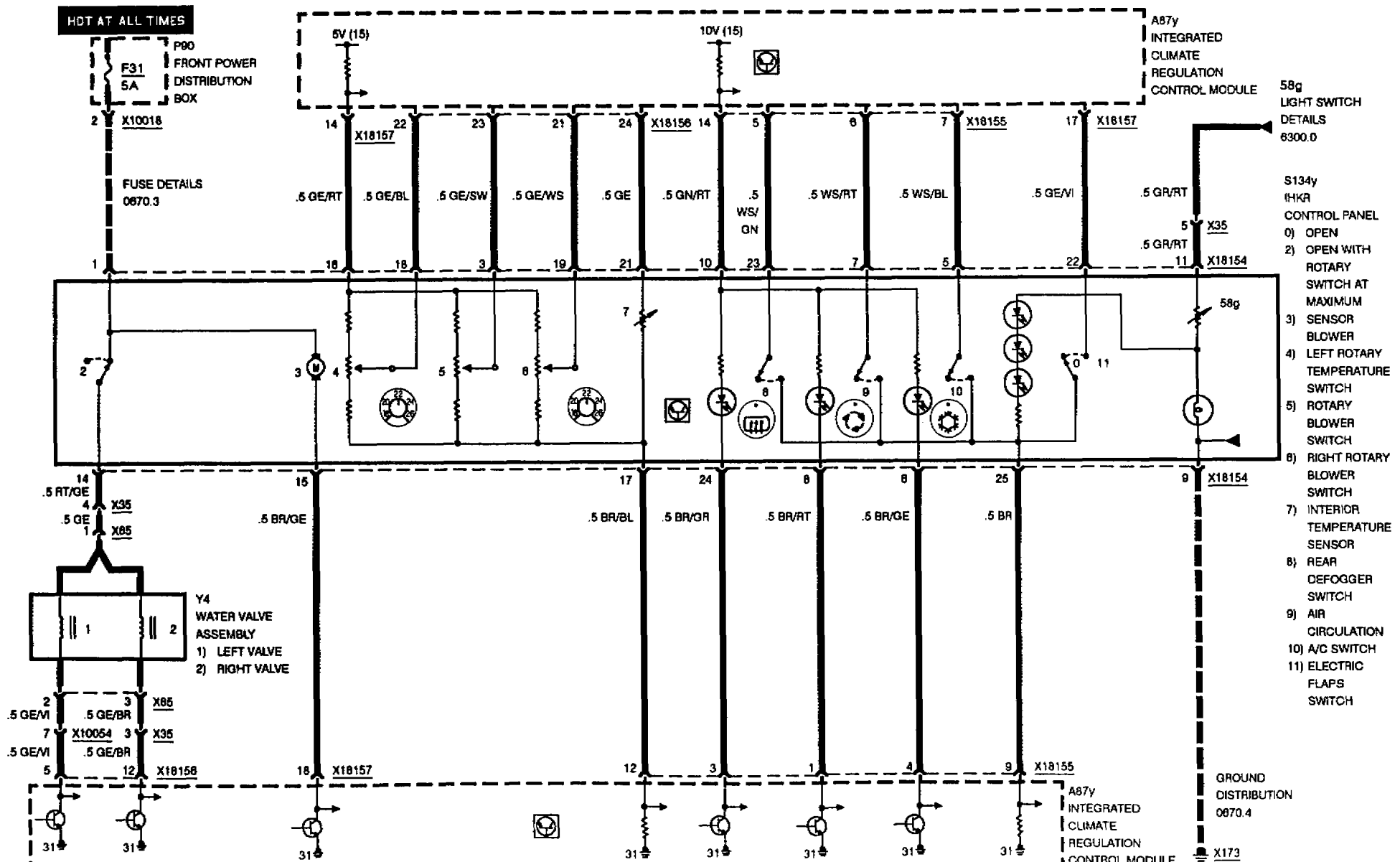
INTEGRATED CLIMATE REGULATION (IHKR E36)

POWER



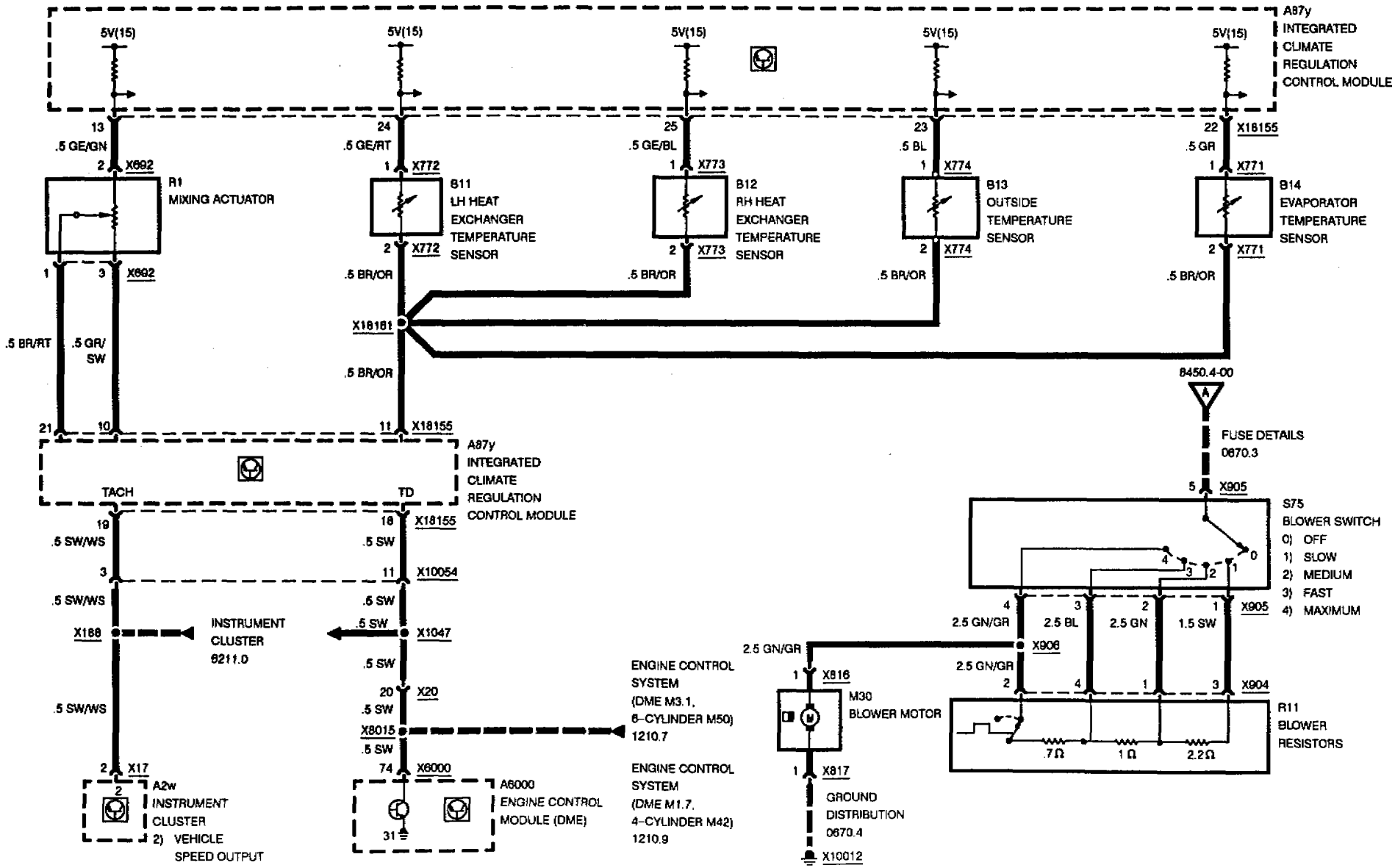
INTEGRATED CLIMATE REGULATION (IHKR E36)

CONTROL MODULE, WATER VALVES



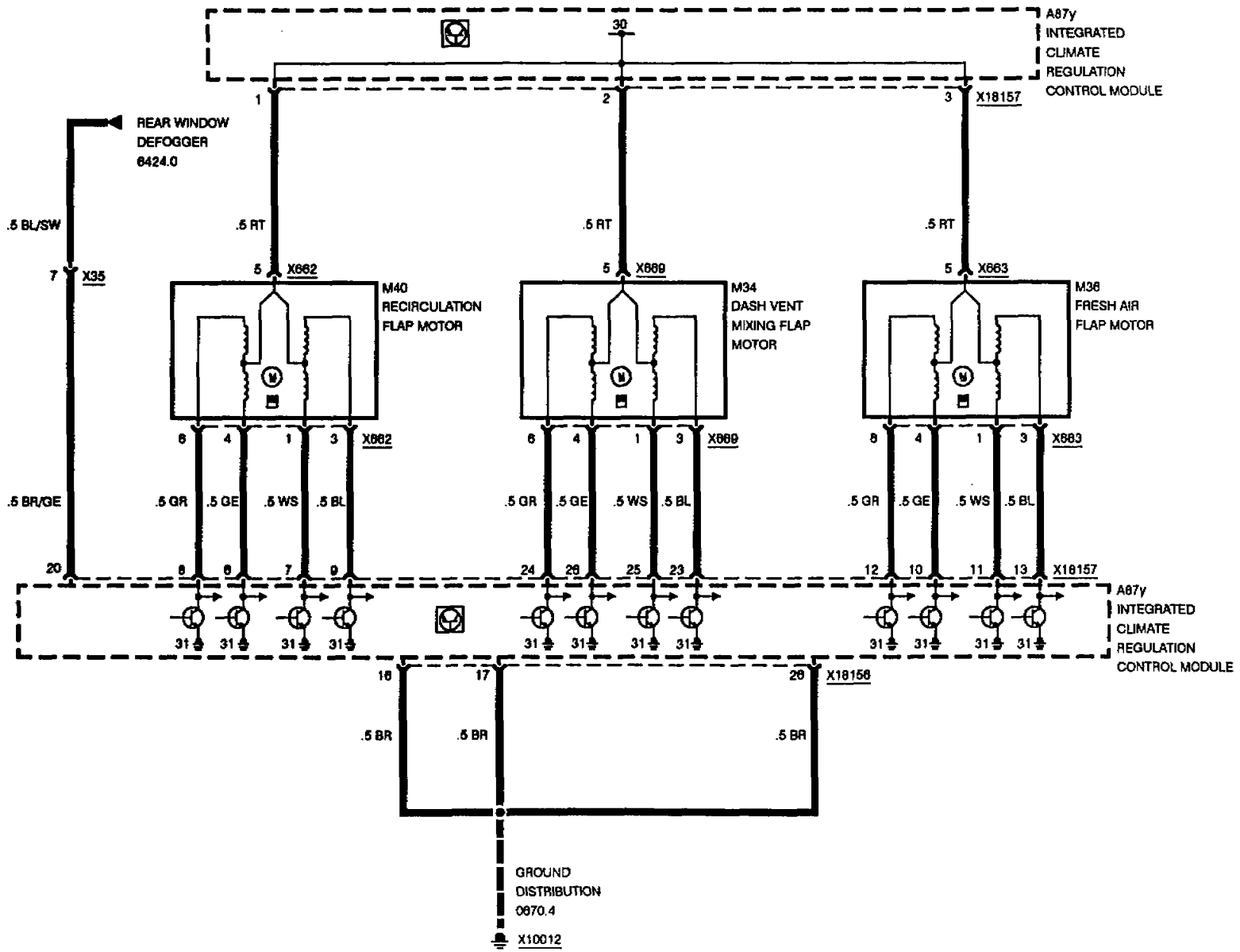
INTEGRATED CLIMATE REGULATION (IHKR E36)

TEMPERATURE CONTROL



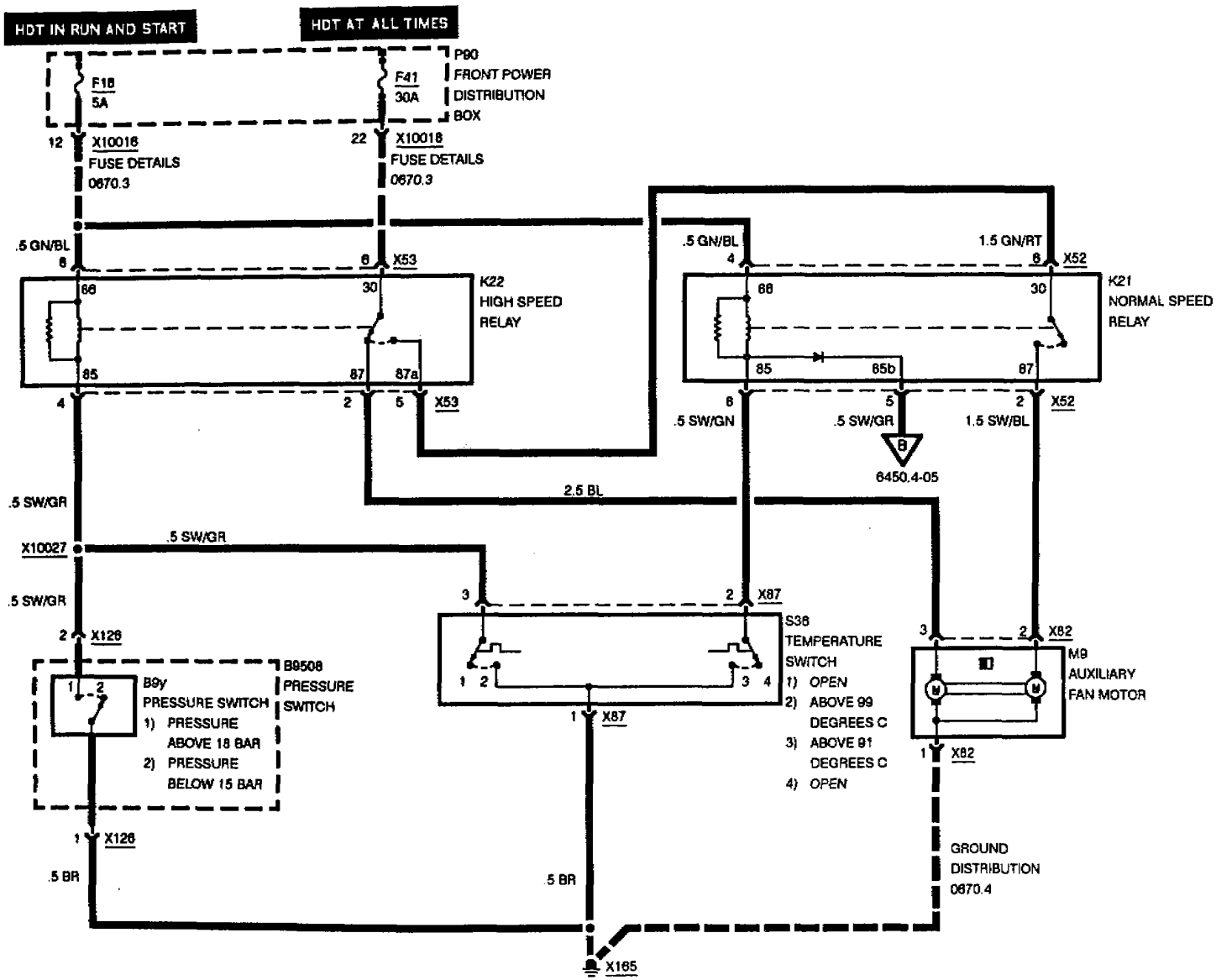
INTEGRATED CLIMATE REGULATION (IHKR E36)

AIR DELIVERY

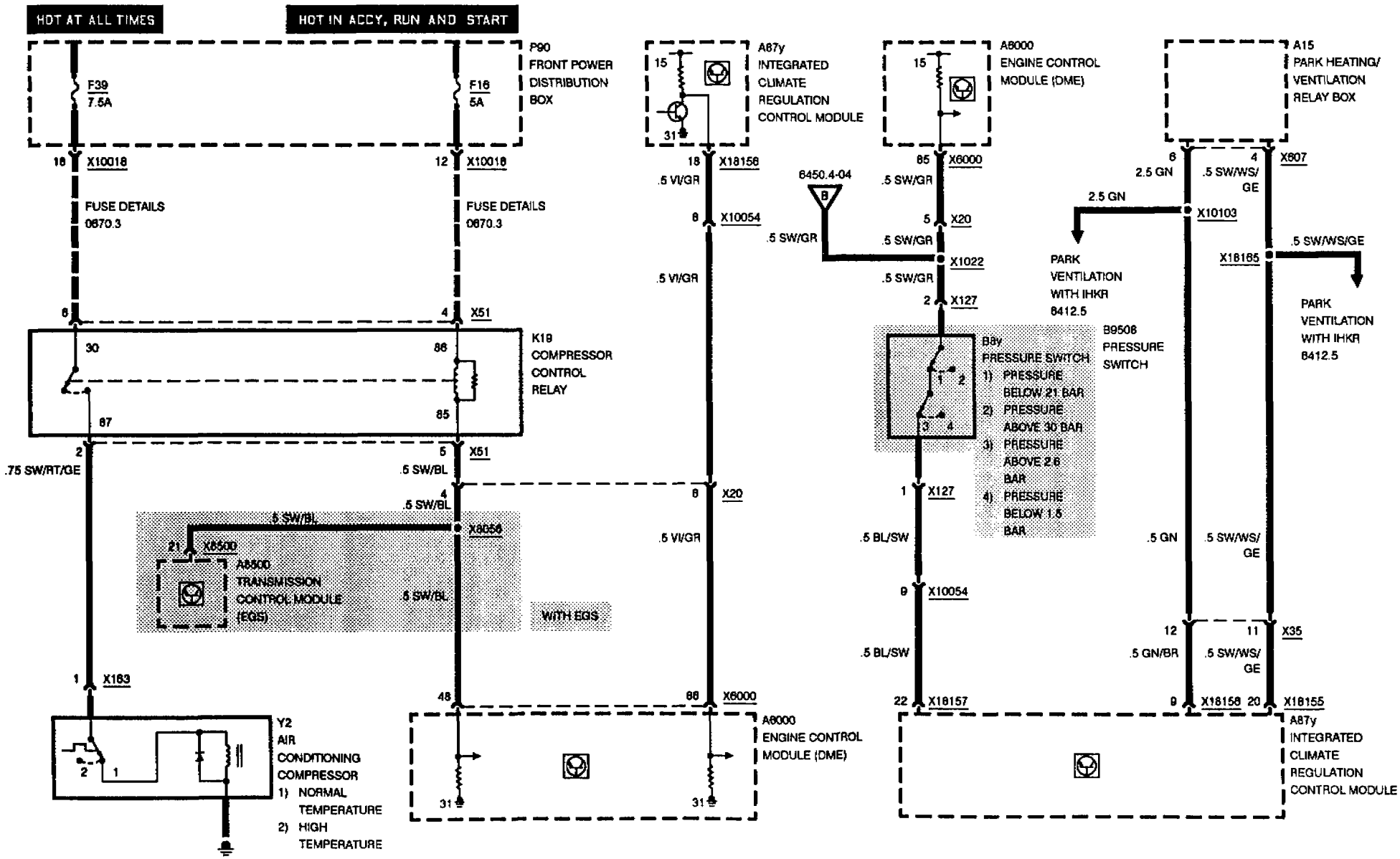


INTEGRATED CLIMATE REGULATION (IHKR E36)

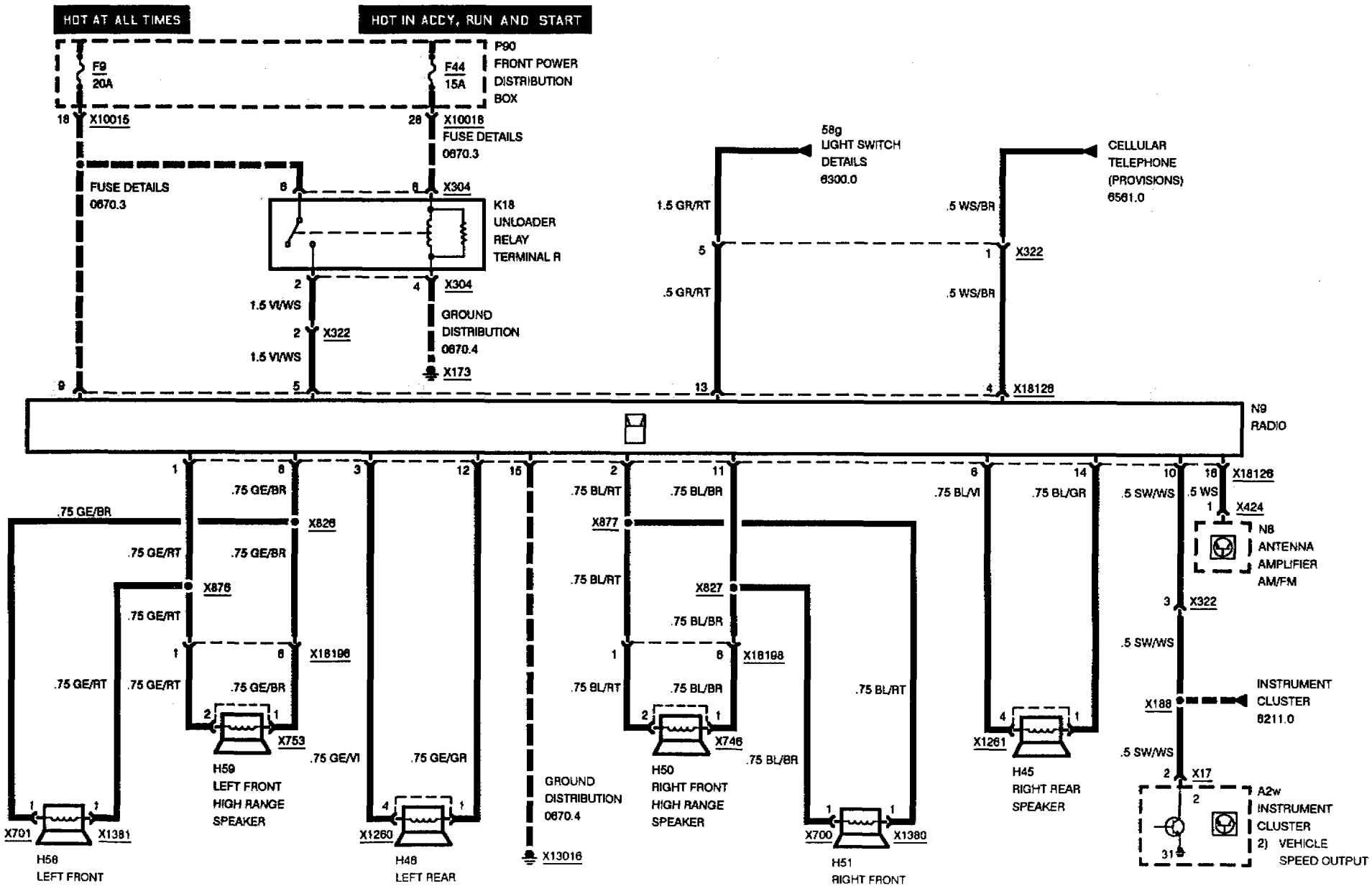
AUXILIARY FAN



INTEGRATED CLIMATE REGULATION (IHKR E36)

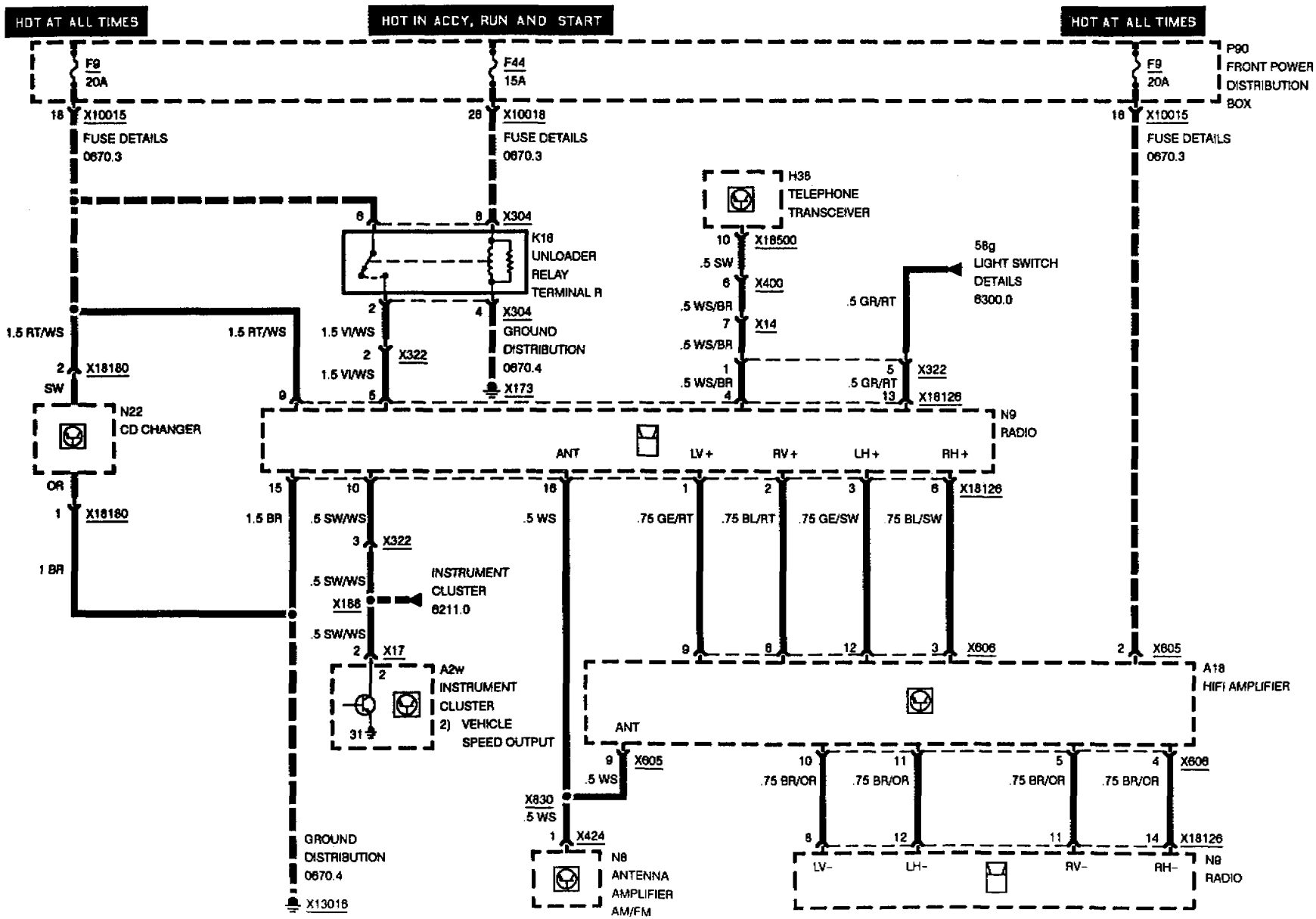


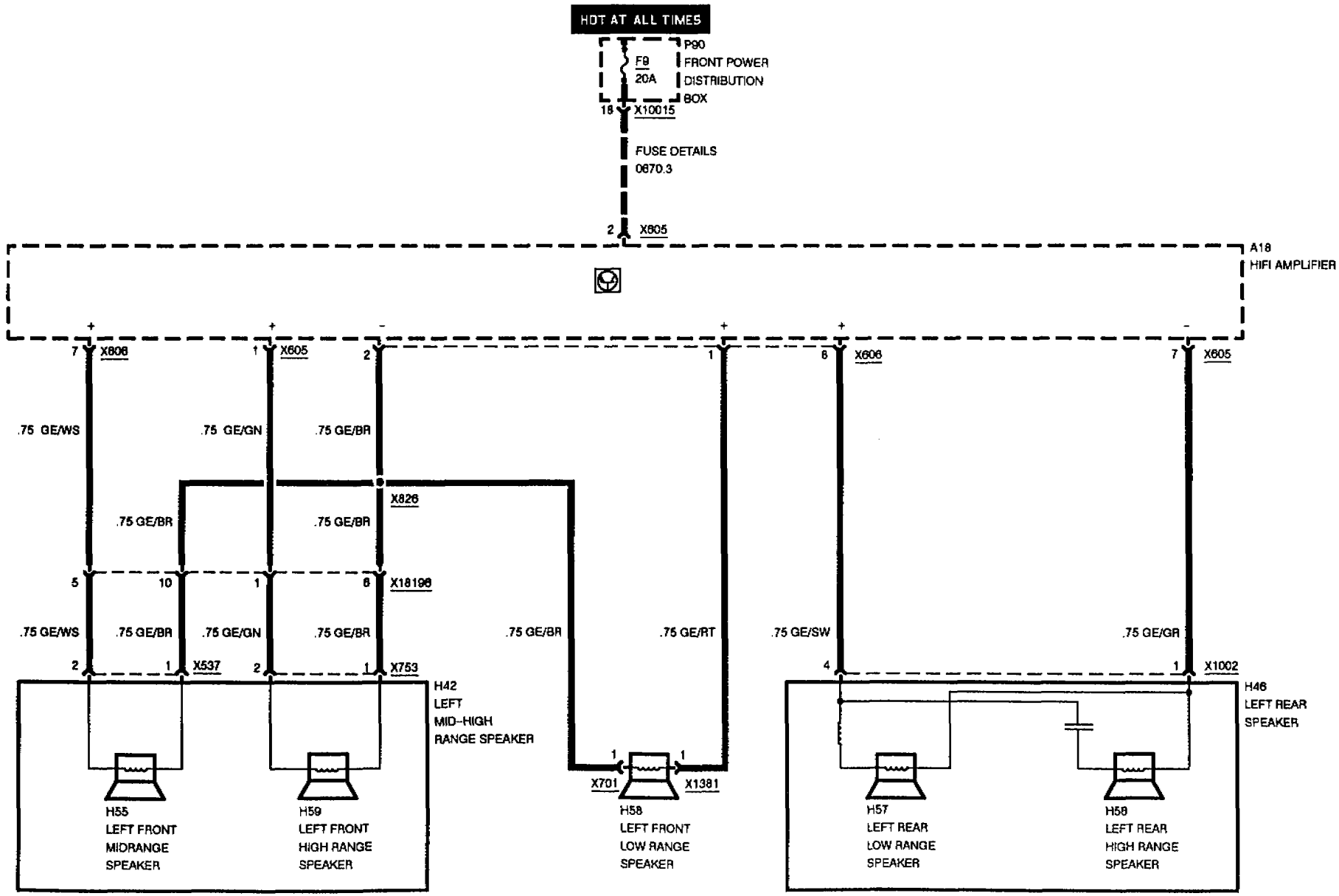
STEREO, 6-SPEAKER SYSTEM



BMW 3 RADIO/HIFI

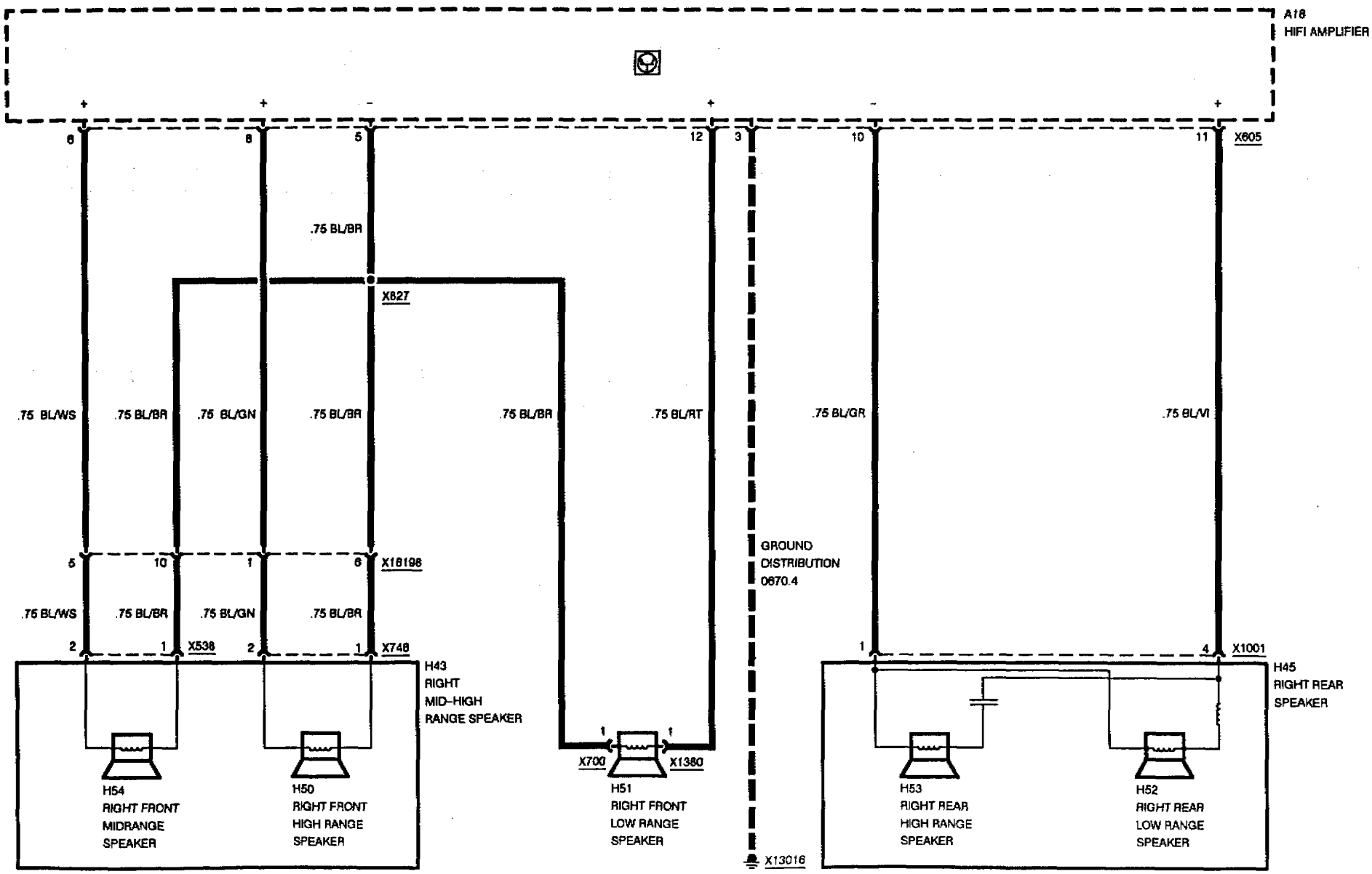
HIFI, 10-SPEAKER SYSTEM




HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F9
20A
18 X10015
FUSE DETAILS
0670.3
2 X605
A18
HIFI AMPLIFIER
7 X606
1 X605
2
1
8 X606
7 X605
.75 GE/WS
.75 GE/GN
.75 GE/BR
X826
.75 GE/BR
.75 GE/BR
5
10
1
6
X18198
.75 GE/WS
.75 GE/BR
.75 GE/GN
.75 GE/BR
.75 GE/BR
.75 GE/RT
.75 GE/SW
.75 GE/GR
2
1
X537
2
1
X753
4
1
X1002
H42
LEFT
MID-HIGH
RANGE SPEAKER
1
1
X701
X1381
H46
LEFT REAR
SPEAKER
H55
LEFT FRONT
MIDRANGE
SPEAKER
H59
LEFT FRONT
HIGH RANGE
SPEAKER
H58
LEFT FRONT
LOW RANGE
SPEAKER
H57
LEFT REAR
LOW RANGE
SPEAKER
H56
LEFT REAR
HIGH RANGE
SPEAKER

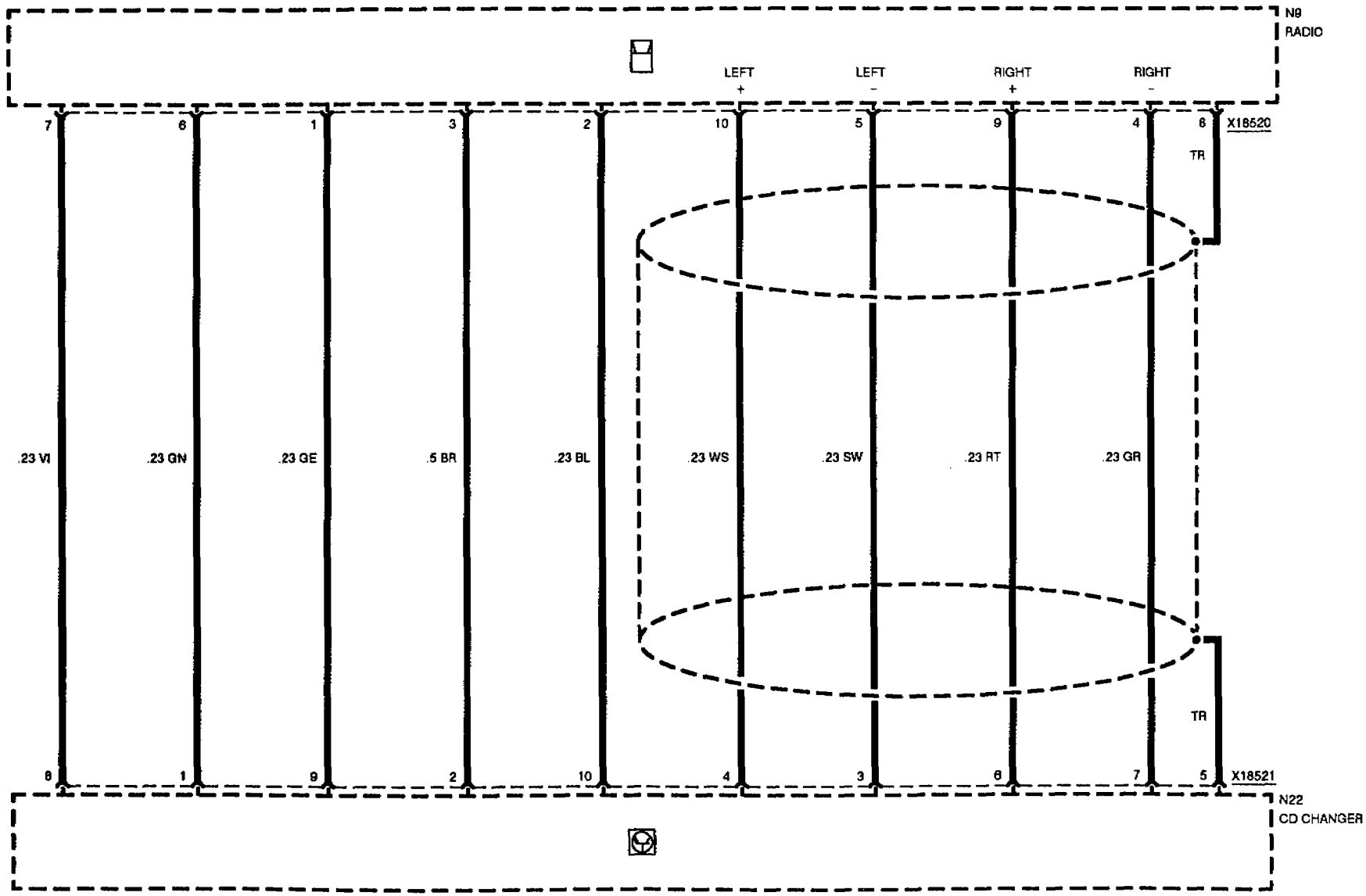
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM



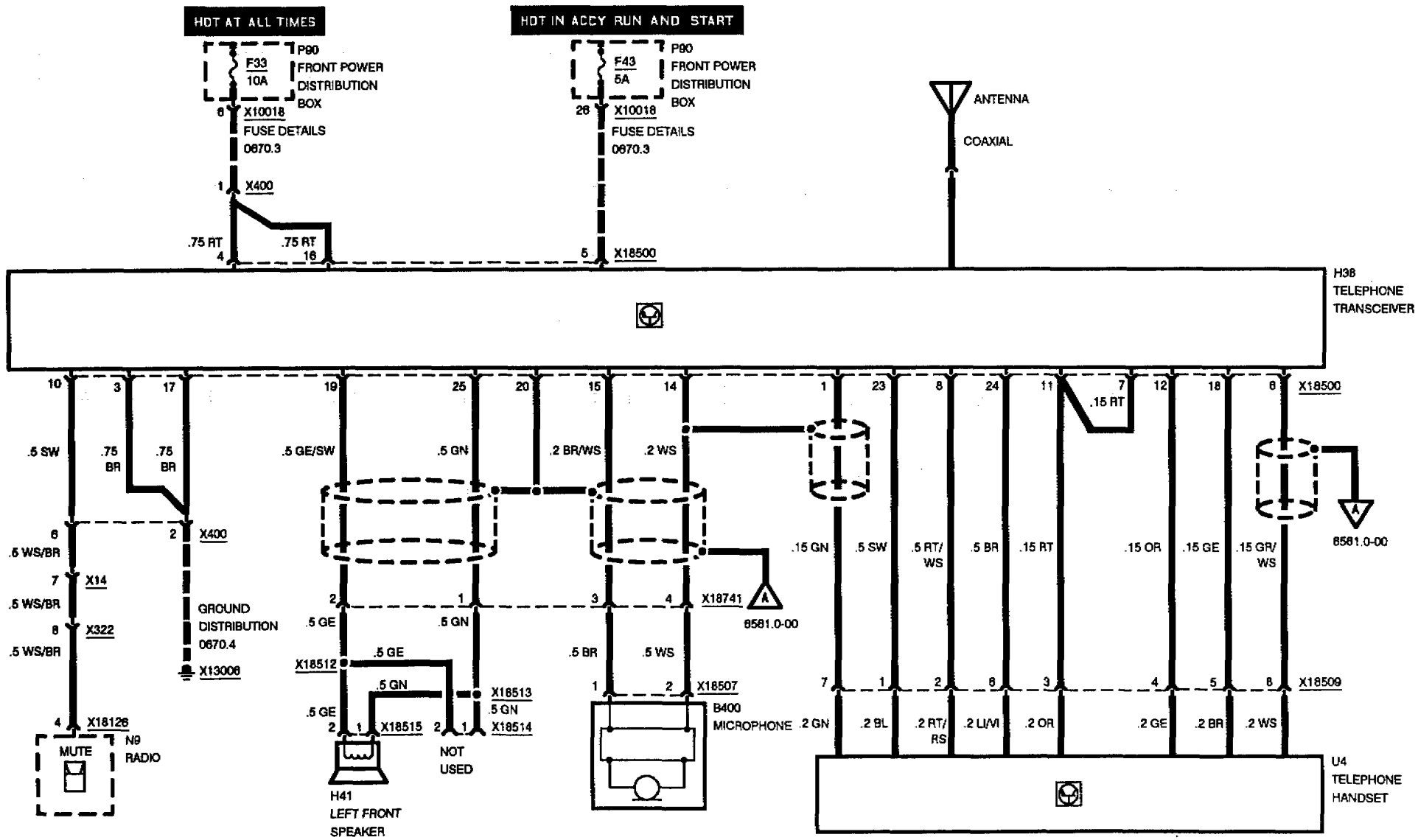
RADIO/HIFI

HIFI WITH CD, 10-SPEAKER SYSTEM

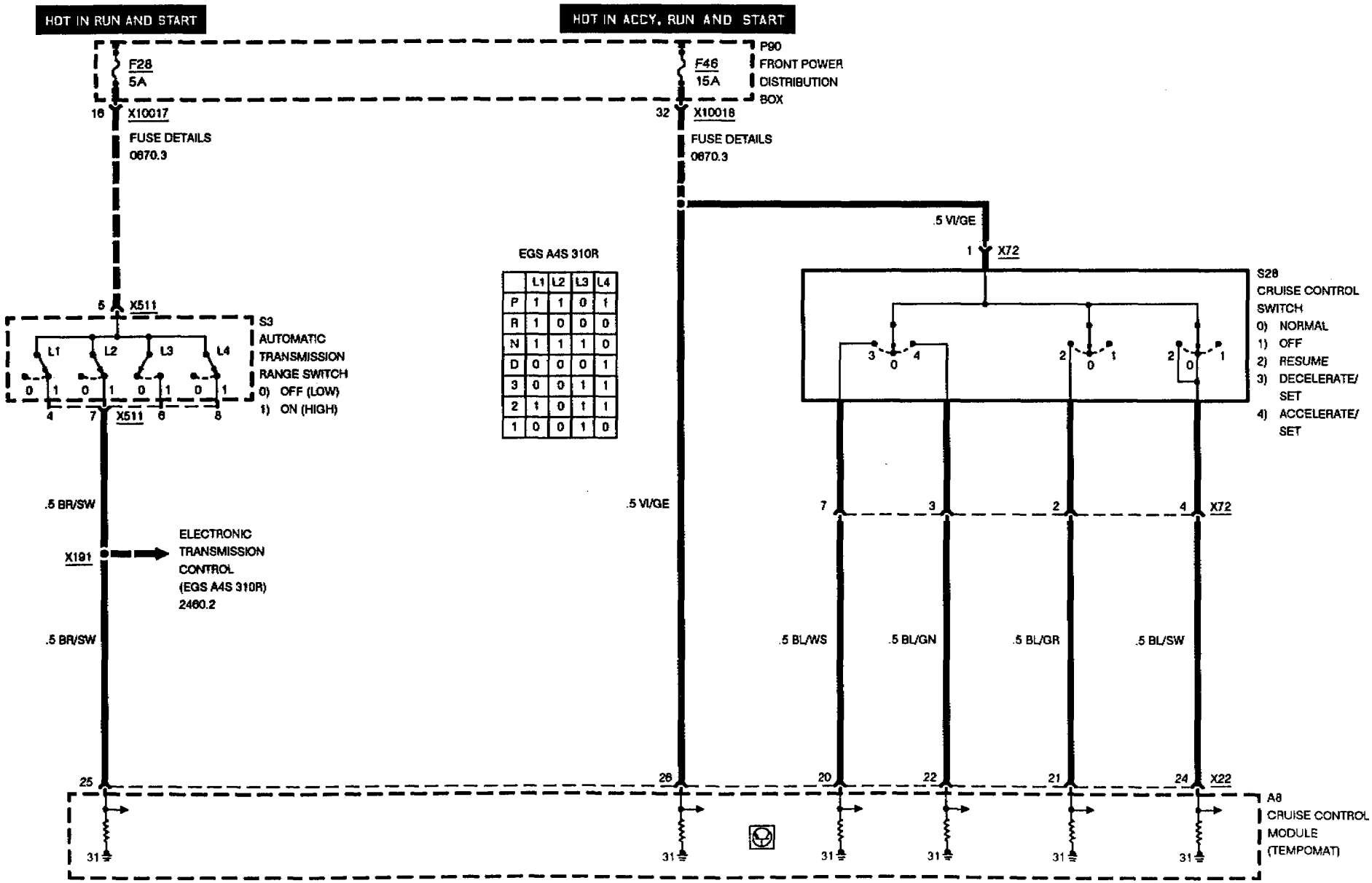


CELLULAR TELEPHONE (PROVISIONS)

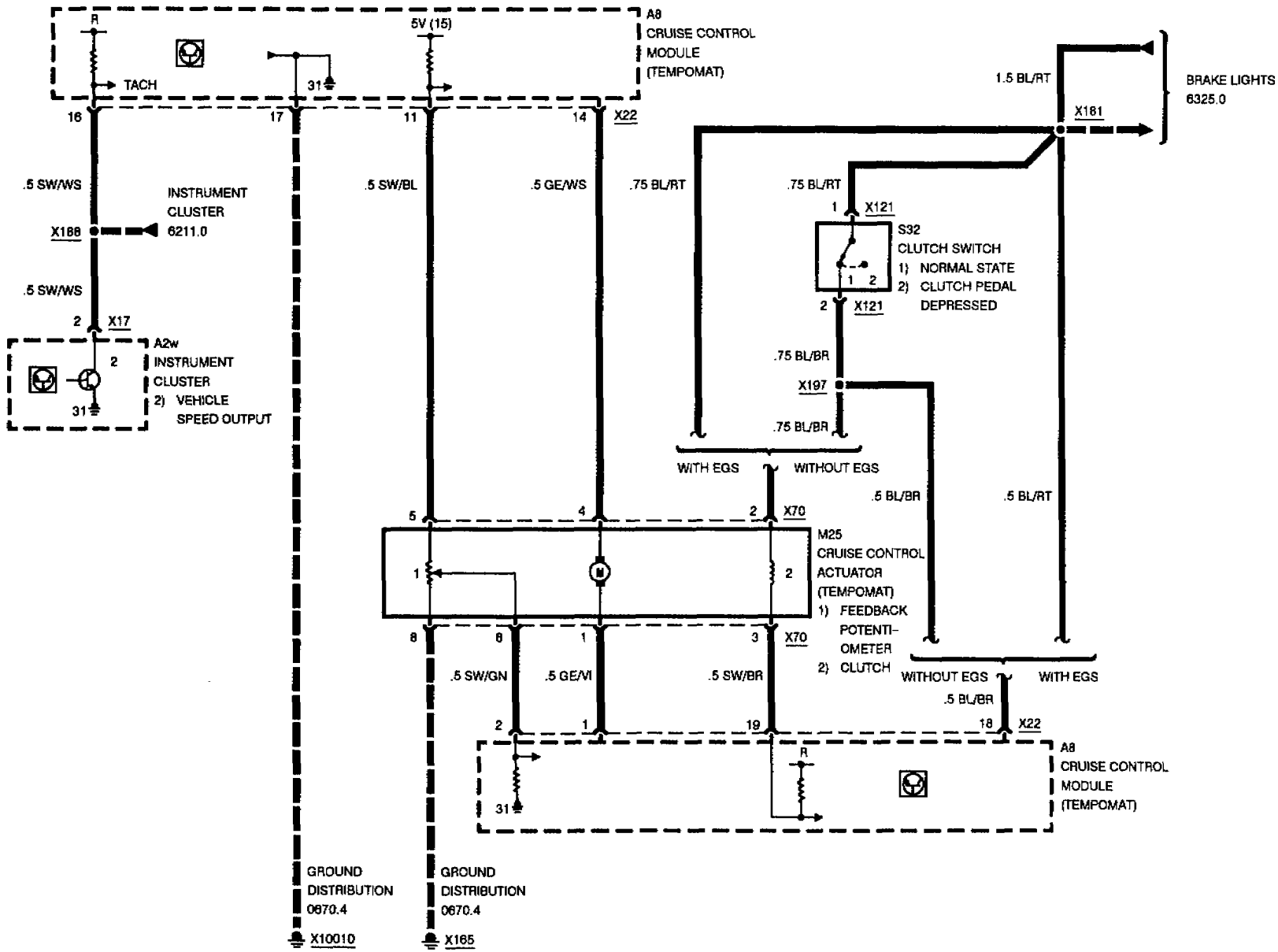
AMPS SYSTEM



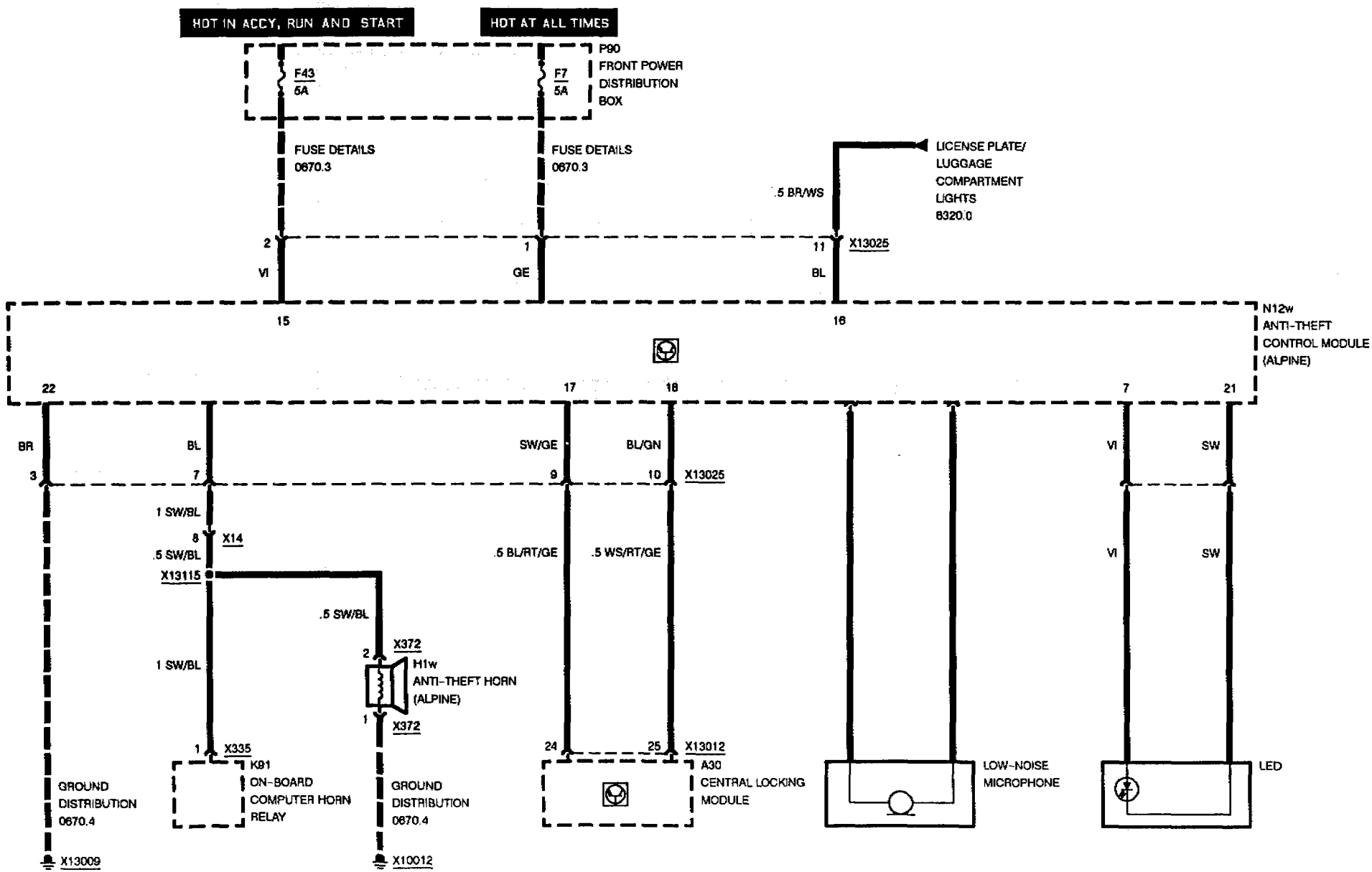
CRUISE CONTROL (TEMPOMAT)



CRUISE CONTROL (TEMPOMAT)



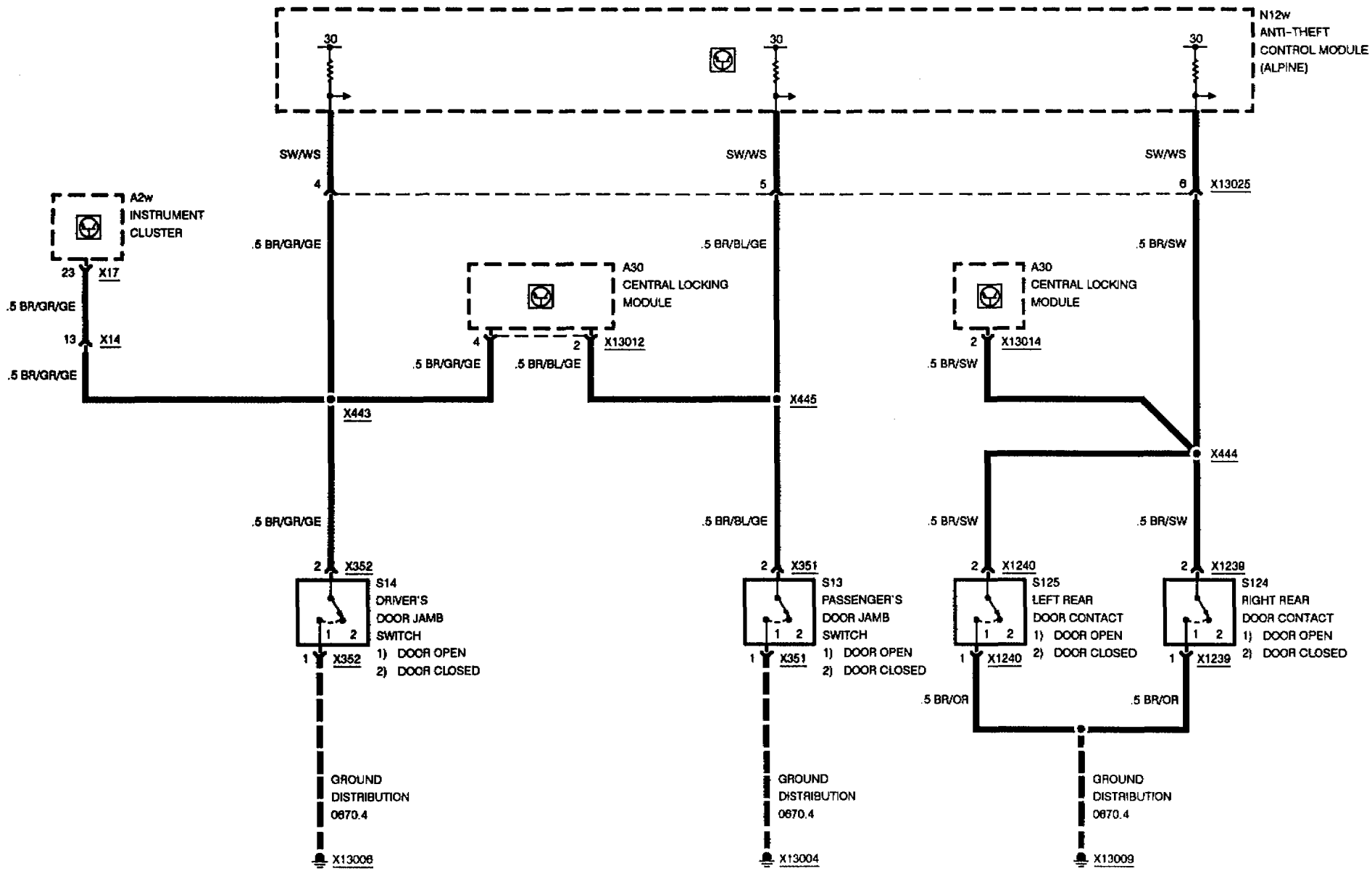
ANTI-THEFT SYSTEM (ALPINE)



ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

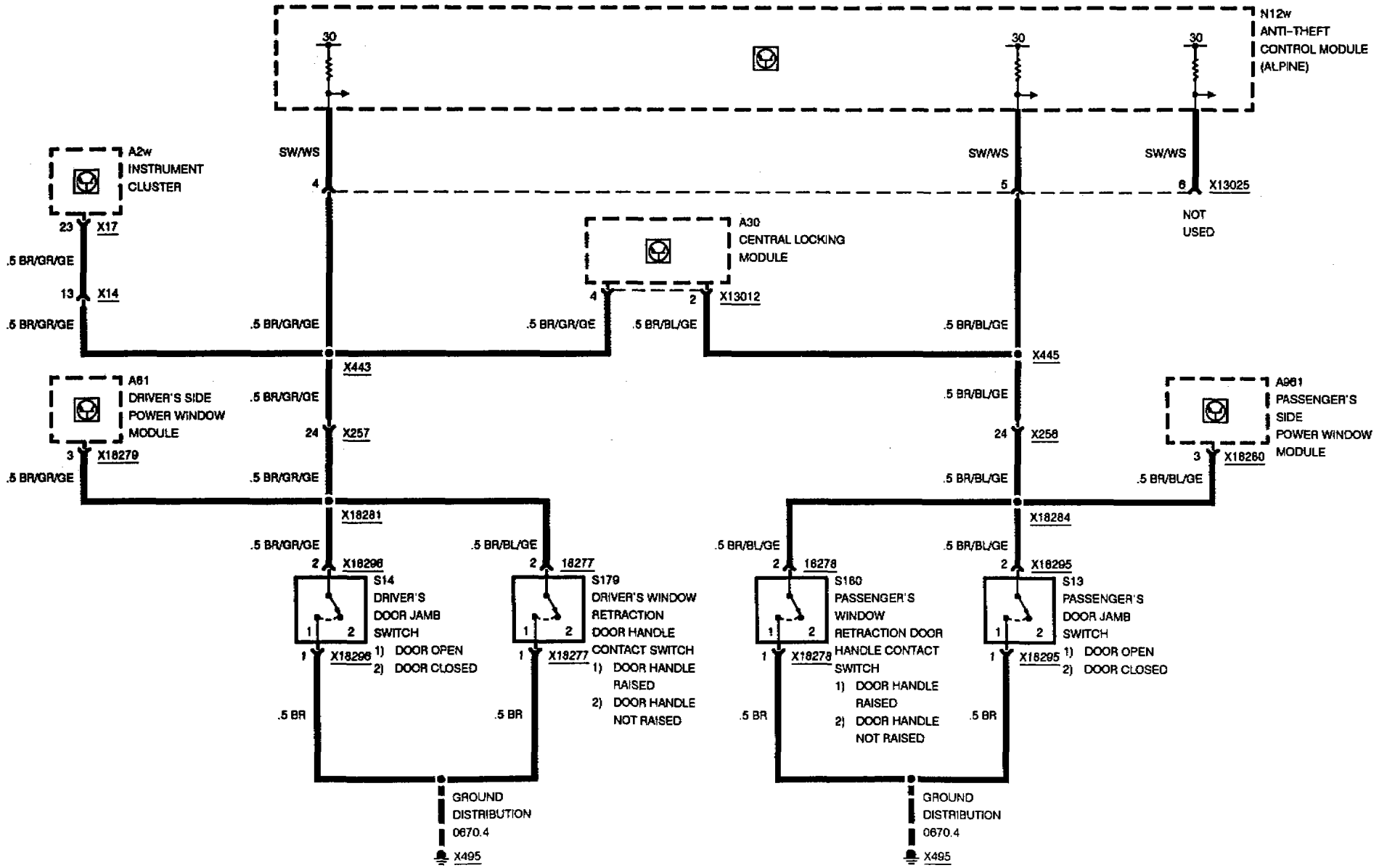
FOUR-DOOR



ANTI-THEFT SYSTEM (ALPINE)

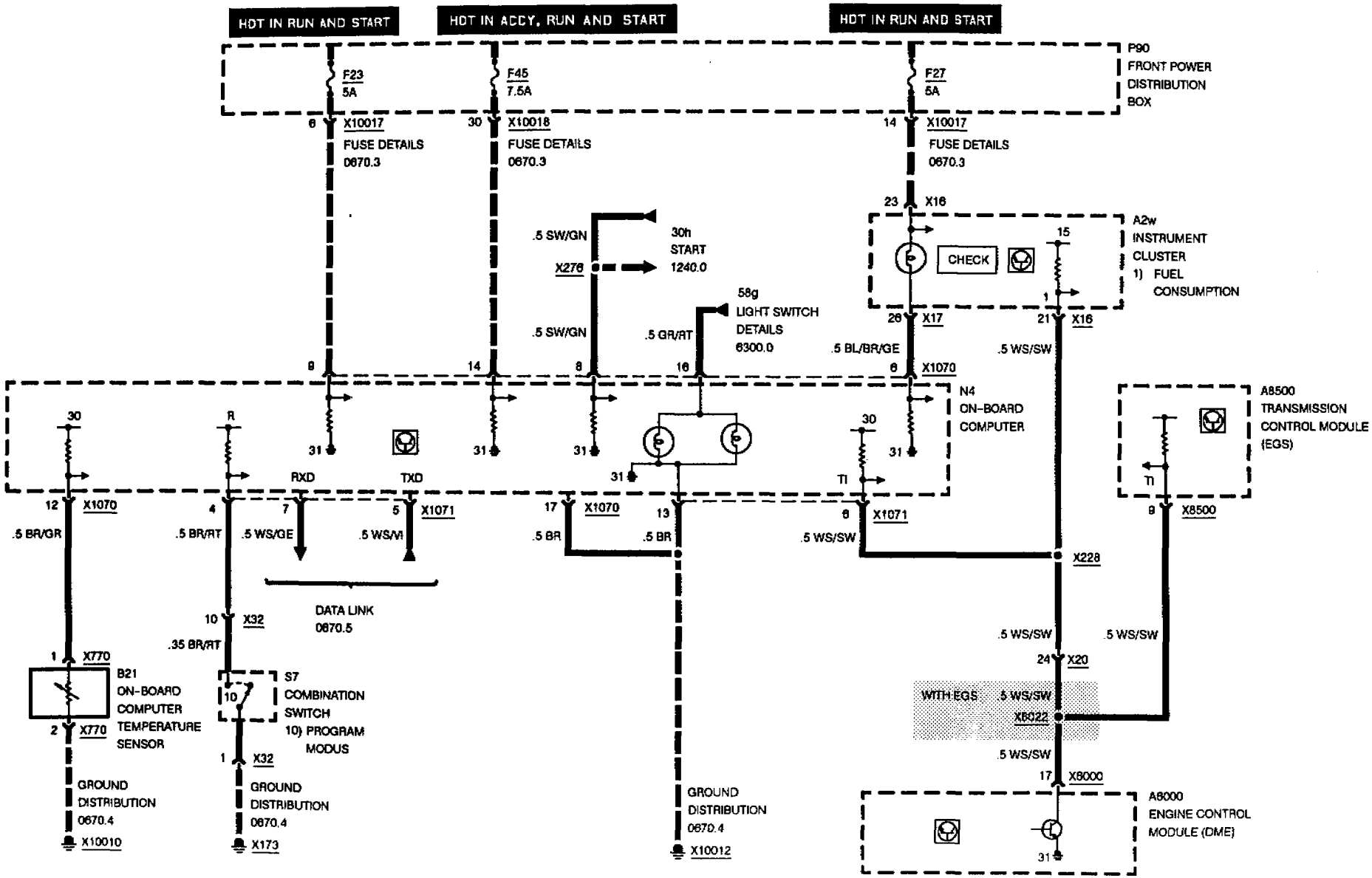
FRONT AND REAR DOOR JAMB SWITCHES

TWO-DOOR



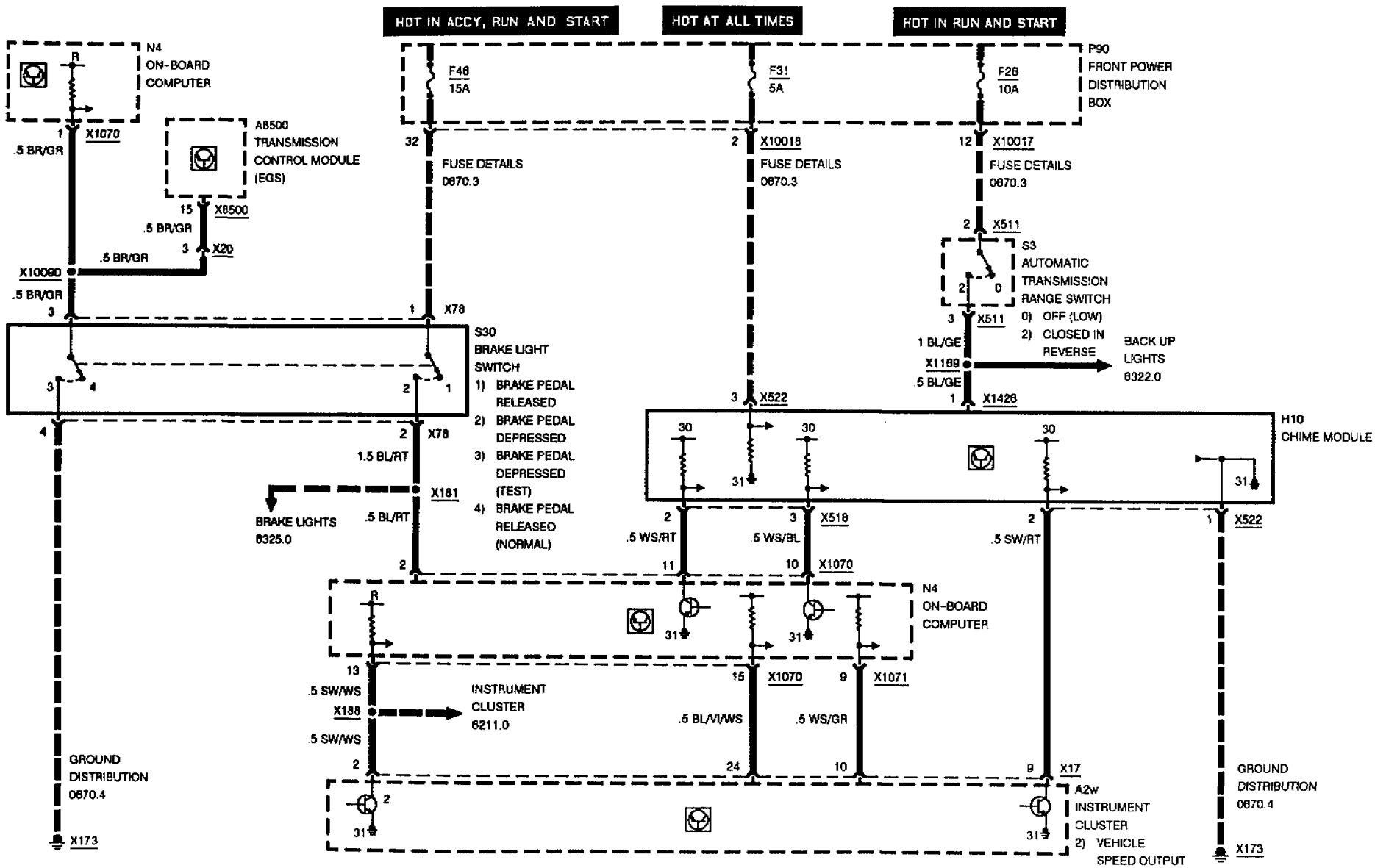
ON-BOARD COMPUTER (BC V)

POWER



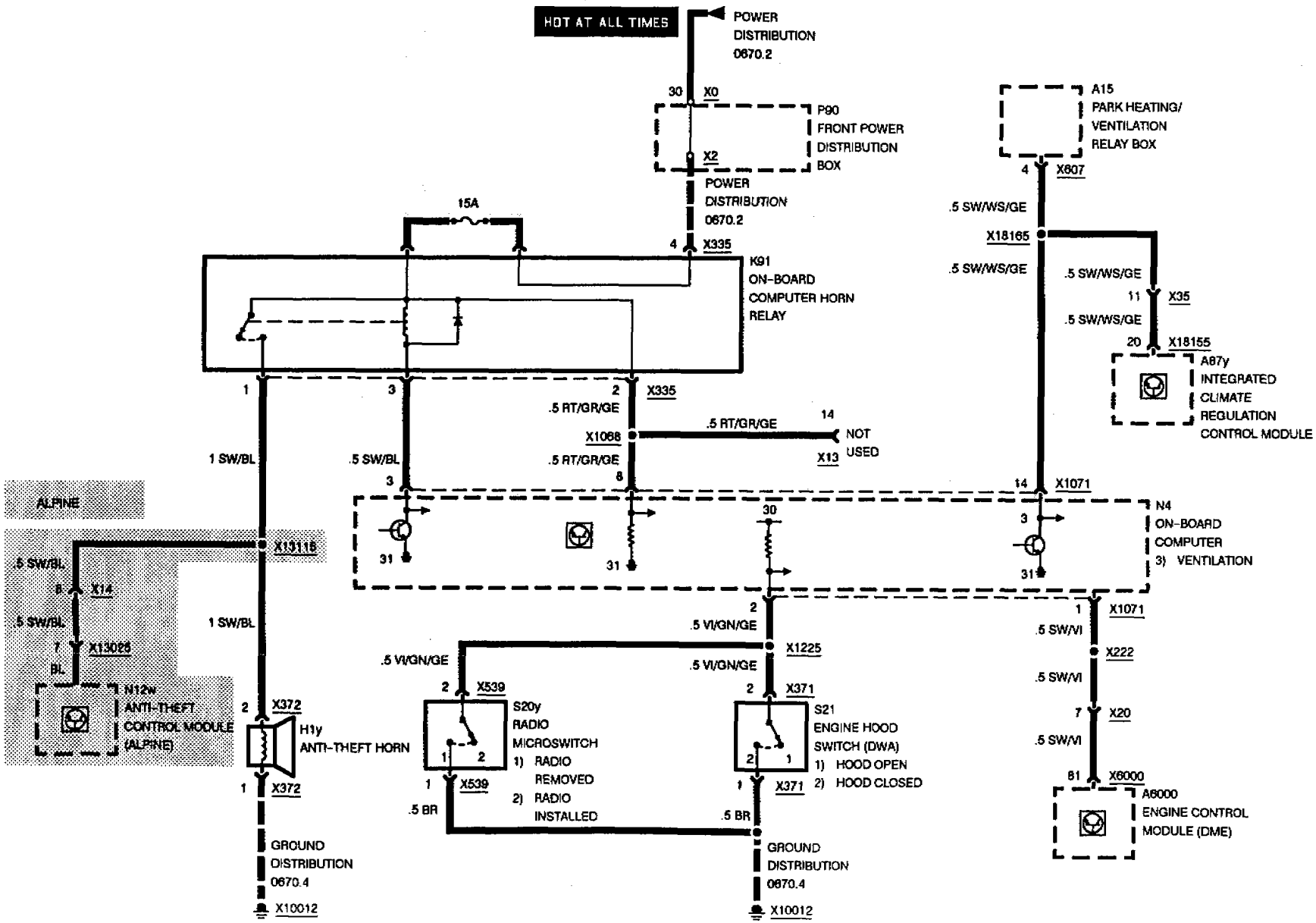
ON-BOARD COMPUTER (BC V)

CHIME, CHECK MODULE



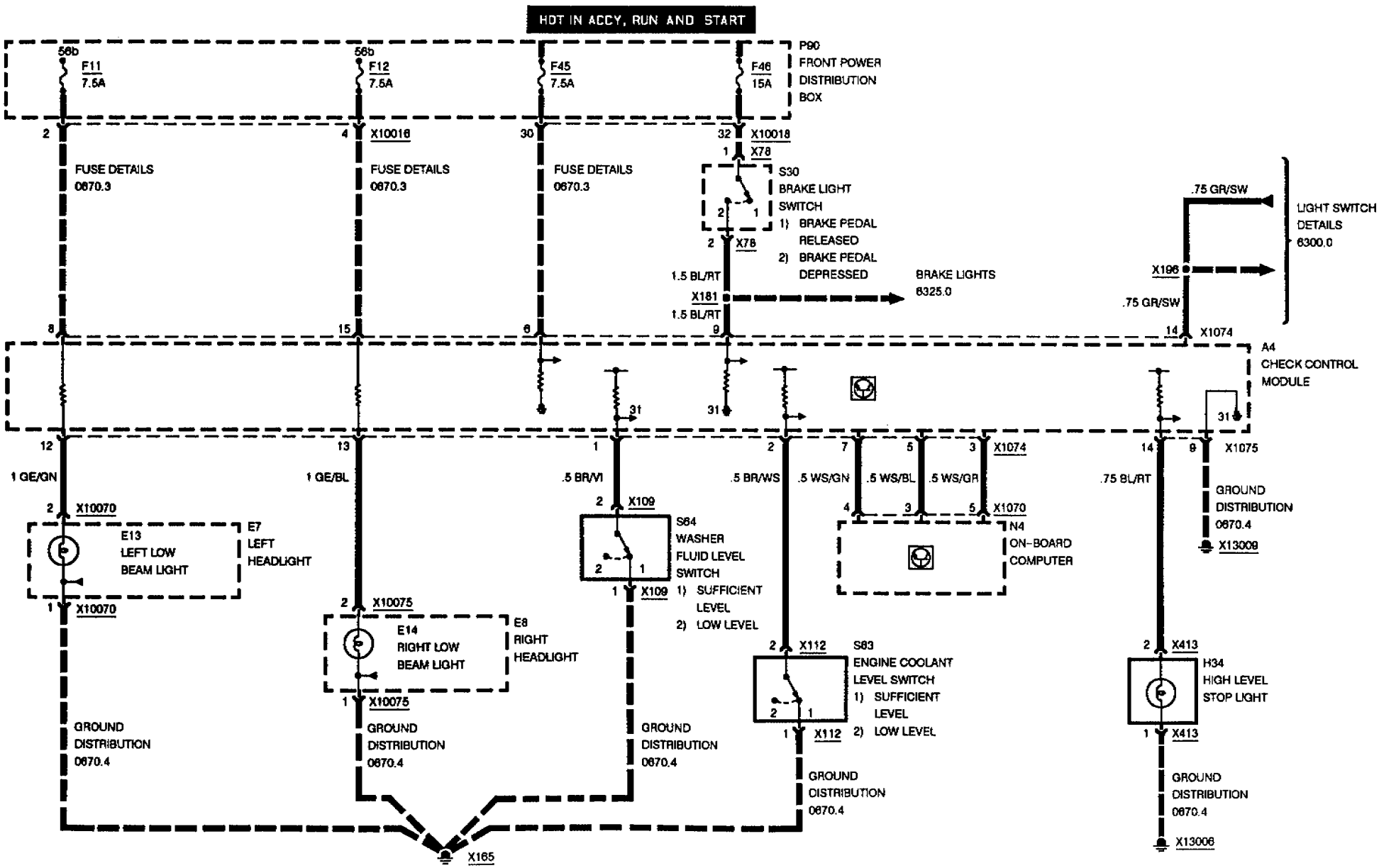
ON-BOARD COMPUTER (BC V)

ANTI-THEFT HORN, PARK VENTILATION



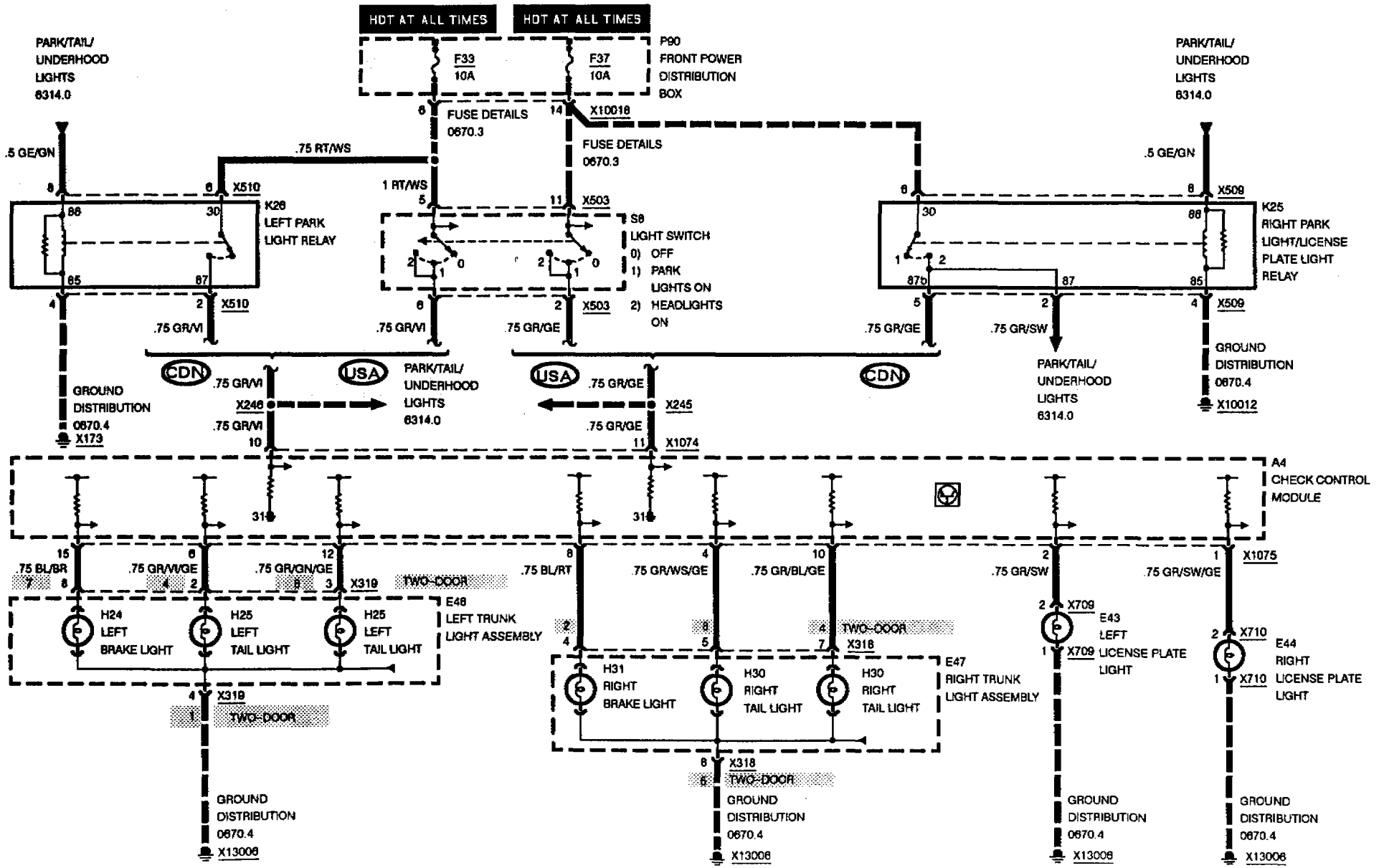
ON-BOARD COMPUTER (BC V)

CHECK CONTROL



ON-BOARD COMPUTER (BC V)

CHECK CONTROL



COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
A2	INSTRUMENT CLUSTER	LH side of dash	22-1	
A4	CHECK CONTROL MODULE	Below LH side of dash	00-3	
A4	CHECK CONTROL MODULE	Below LH side of dash	25-2	
A7	SLIP CONTROL MODULE (ABS)	Below RH side of dash	01-1	
A7	SLIP CONTROL MODULE (ABS)	Below RH side of dash	27-1	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	Below RH side of dash	02-1	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	Below RH side of dash	27-3	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	Below RH side of dash	02-1	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	Below RH side of dash	27-2	
A15	PARK HEATING/VENTILATION RELAY BOX	Below LH side of dash	02-3	
A15	PARK HEATING/VENTILATION RELAY BOX	Below LH side of dash	24-2	
A18	HIFI AMPLIFIER	In LH forward side of luggage compartment	01-2	
A18	HIFI AMPLIFIER	In LH forward side of luggage compartment	34-2	
A30	CENTRAL LOCKING MODULE	Below RH side of dash	01-1	
A30	CENTRAL LOCKING MODULE	Below RH side of dash	27-2	
A51	WIPER/WASHER MODULE	Footwell, driver's side	00-2	
A51	WIPER/WASHER MODULE	Footwell, driver's side	25-1	
A56	SUNROOF CONTROL ASSEMBLY	In roof panel	18-2	

COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
A61	DRIVER'S SIDE POWER WINDOW MODULE	Driver's door	31-2	
A64	WIPER/WASHER MODULE (LOW II)	Footwell, driver's side	25-1	
A64	WIPER/WASHER MODULE (LOW II)	LH side of LH footwell under footrest		
A87y	INTEGRATED CLIMATE REGULATION CONTROL MODULE	Center console on-board computer (removed)	30-3	
A961	PASSENGER'S SIDE POWER WINDOW MODULE	Passenger's door	32-2	
A6000	ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box	00-1	
A6000	ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box	10-3	
A8500	TRANSMISSION CONTROL MODULE (EGS)	Rear RH side of engine compartment in E-Box	00-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	Rear RH side of engine compartment in E-Box	10-3	
B1	RIGHT FRONT SPEED SENSOR - ABS	On RH front wheel, above brake caliper	06-3	
B2	LEFT FRONT SPEED SENSOR - ABS	On LH front wheel, above brake caliper	06-3	
B3	RIGHT REAR SPEED SENSOR - ABS	On RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR - ABS	On LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	Below LH side of rear seat	19-3	
B10	VEHICLE SPEED SENSOR	Under rear of car	09-2	
B13	OUTSIDE TEMPERATURE SENSOR	Rear of engine compartment behind RH fresh air cowl	13-1	
B14	EVAPORATOR TEMPERATURE SENSOR	LH side of IHKR Plenum	25-3	
B16	LEFT FRONT BRAKE PAD SENSOR	On LH front wheel, above brake caliper	06-3	
B17	RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B18	BRAKE FLUID LEVEL SWITCH	Rear LH side of engine compartment top of brake fluid reservoir	12-2	
B21	ON-BOARD COMPUTER TEMPERATURE SENSOR	Front RH side of engine compartment		
B8y	PRESSURE SWITCH	Front RH side of engine compartment	17-2	
B8y	PRESSURE SWITCH	Front RH side of engine compartment		
B9y	PRESSURE SWITCH	Front RH side of engine compartment	17-2	
B9y	PRESSURE SWITCH	Front RH side of engine compartment		
B25y	FUEL TANK SENSOR II	Below RH side of rear seat	20-1	
B6200	HEATED OXYGEN SENSOR	On RH side of transmission (318is)	08-1	
B6200	HEATED OXYGEN SENSOR	Under center of car (325i)	08-2	
B6203	CRANKSHAFT POSITION/RPM SENSOR	Under front of car (325i)	07-1	
B6203	CRANKSHAFT POSITION/RPM SENSOR	Under RH front of car rear of radiator (318is)	07-2	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine (325i)	14-3	
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine on intake manifold below	15-2	
B6206	MASS AIR FLOW SENSOR	LH side of engine (325i)	15-3	
B6231	OIL PRESSURE SWITCH	Rear of engine (318is)	13-2	
B6231	OIL PRESSURE SWITCH	RH front of engine (325i)	14-3	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (325i)	15-1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (325i)	14-3	
B6241	CYL. 1-2 KNOCK SENSOR	LH side of engine		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B6242	CYL. 3-4 KNOCK SENSOR	LH side of engine		
B9508	PRESSURE SWITCH	Front RH side of engine compartment	17-2	
C101	CONTACT RING	Top of steering column	21-1	
C900	SUPPRESSION FILTER	In lower RH C-pillar	20-2	
D100	DATA LINK CONNECTOR	Back of RH side shock tower	10-1	
E9	REAR DEFOGGER I	In lower RH C-pillar	20-2	
E10	REAR DEFOGGER/ANTENNA	In rear window		
E25	FRONT ASHTRAY LIGHT	Center console	28-2	
E26	LEFT FOG LIGHT	Under LH front bumper	06-1	
E27	RIGHT FOG LIGHT	Under RH front bumper	06-1	
E29	FRONT CIGAR LIGHTER LIGHT	Center console near gearshift lever	30-1	
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	In roof panel	18-1	
E39	LEFT REAR INTERIOR LIGHT	In lower LH C-pillar	20-3	
E40	RIGHT REAR INTERIOR LIGHT	In lower RH C-pillar	20-2	
E43	LEFT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	35-1	
E44	RIGHT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	35-1	
E28y	REAR ASHTRAY LIGHT	Center console	28-2	
F56	AUTOMATIC CUT-OUT	LH side of dash	21-3	
G1	BATTERY	In RH rear side of luggage compartment (325i)	34-1	
G5	DRIVER'S AIR BAG GENERATOR	Behind steering wheel	21-1	

COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

G6430	B+ JUMP START JUNCTION POINT	Back of RH side shock tower	03-3
G6430	B+ JUMP START JUNCTION POINT	Back of RH side shock tower	10-1
G6509	GENERATOR	LH side of engine compartment (325i)	
H10	CHIME MODULE	Below LH side of dash	
H1y	ANTI-THEFT HORN	Back of RH side shock tower	10-2
H38	TELEPHONE TRANSCEIVER	In luggage compartment	01-2
K1	STARTER RELAY	Below LH side of dash	24-3
K2	HORN RELAY	Rear LH side of engine compartment in Power Distribution Box	11-3
K4	BLOWER RELAY	Rear LH side of engine compartment in Power Distribution Box	11-3
K9	UNLOADER RELAY, TERMINAL 15	Below LH side of dash	24-3
K10	ABS RELAY	Rear LH side of engine compartment in Power Distribution Box	11-2
K11	WIPER RELAY	Below LH side of dash	24-3
K13	REAR DEFOGGER RELAY	Rear LH side of engine compartment in Power Distribution Box	11-2
K16	HAZARD FLASHER RELAY	Rear LH side of engine compartment in Power Distribution Box	11-3
K18	UNLOADER RELAY TERMINAL R	Below LH side of dash	24-1
K19	COMPRESSOR CONTROL RELAY	Rear LH side of engine compartment in Power Distribution Box	11-1
K21	NORMAL SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	11-1
K22	HIGH SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	11-1

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
K25	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	RH side of dash behind glove box	
K26	LEFT PARK LIGHT RELAY	RH side of dash behind glove box	
K46	HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	11-3
K47	FRONT FOG LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	11-3
K48	LOW BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	11-3
K53	WIPER MOTOR RELAY	Below LH side of dash	24-3
K75	ABS PUMP MOTOR RELAY	Rear LH side of engine compartment in Power Distribution Box	11-2
K78	COMFORT RELAY	Below LH side of dash	
K6300	ENGINE CONTROL MODULE RELAY	Rear LH side of engine compartment in Power Distribution Box	11-2
K6301	CYL. 1-6 FUEL PUMP RELAY	Rear LH side of engine compartment in Power Distribution Box	11-2
K6303	OXYGEN SENSOR RELAY	Rear LH side of engine compartment in Power Distribution Box	11-2
M2	FUEL PUMP	Below RH side of rear seat	20-1
M3	WIPER MOTOR	Rear of engine compartment left	12-3
M4	WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	16-3
M5	INTENSIVE WASH PUMP	Front RH side of engine compartment	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	16-2
M9	AUXILIARY FAN MOTOR	Behind front grille	
M12	DRIVER'S DOOR LOCK MOTOR	In lower LH front door behind trim panel	
M13	PASSENGER'S DOOR LOCK MOTOR	In lower RH side of front door behind trim panel	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
M14	RIGHT REAR DOOR LOCK MOTOR	In lower RH rear door behind trim panel	
M15	LEFT REAR DOOR LOCK MOTOR	In lower LH rear door behind trim panel	
M16	GAS FILLER LOCK MOTOR	In RH rear side of luggage compartment	34-1
M17	TRUNK LOCK MOTOR	Rear side of luggage compartment	
M20	LEFT REAR WINDOW MOTOR	In lower LH rear door behind trim panel	
M22	RIGHT REAR WINDOW MOTOR	In lower RH rear door behind door panel	
M23	PASSENGER'S WINDOW MOTOR	Passenger's door	32-3
M24	SUNROOF MOTOR	In roof panel	18-2
M24	SUNROOF MOTOR	Center of windshield header	
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	Front LH side of engine compartment	16-1
M30	BLOWER MOTOR	Rear of engine compartment behind RH fresh air cowl	13-1
M34	DASH VENT MIXING FLAP MOTOR	Behind center of dashboard LH side of IHKR Plenum	26-2
M36	FRESH AIR FLAP MOTOR	RH side of IHKR Plenum	31-1
M40	RECIRCULATION FLAP MOTOR	Below LH side of dash	26-1
M50	DRIVER'S SEAT CUSHION TILT MOTOR	Under LH front seat	
M51	DRIVER'S SEAT MOVEMENT MOTOR	Under LH front seat	
M52	DRIVER'S SEAT HEIGHT MOTOR	Under LH front seat	
M53	DRIVER'S SEATBACK RECLINER MOTOR	Under LH front seat	
M58	PASSENGER'S SEATBACK RECLINER MOTOR	Under RH front seat	
N3	DIMMER	Below LH side of dash	02-3

COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
N3	DIMMER	Below LH side of dash	24-2	
N4	ON-BOARD COMPUTER	Center console		
N5	ANALOG CLOCK	Center console		
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Below LH side of dash	02-3	
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Below LH side of dash	24-2	
N8	ANTENNA AMPLIFIER AM/FM	In lower LH C-pillar	01-3	
N8	ANTENNA AMPLIFIER AM/FM	In lower LH C-pillar	20-3	
N9	RADIO	Center console		
N10	MULTI-FUNCTION CLOCK	Center console		
N17	CRASH CONTROL MODULE	Below LH side of dash	02-3	
N17	CRASH CONTROL MODULE	Below LH side of dash	24-1	
N20	RADIO RECEIVER	In RH forward side of luggage compartment		
N21	TWIN RELAY MODULE	Below LH side of dash	02-3	
N21	TWIN RELAY MODULE	Below LH side of dash	24-1	
N22	CD CHANGER	Center console	02-2	
N22	CD CHANGER	Center console		
N12w	ANTI-THEFT CONTROL MODULE (ALPINE)	Below RH side of dash	02-1	
N12w	ANTI-THEFT CONTROL MODULE (ALPINE)	Below RH side of dash	27-2	
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment in Power Distribution Box	03-1	
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment in Power Distribution Box	11-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
R11	BLOWER RESISTORS	Behind center of dashboard LH side of IHKR Plenum	26–1
R6252	THROTTLE POSITION SENSOR	LH side of engine on intake manifold (318is)	13–3
R6252	THROTTLE POSITION SENSOR	LH side of engine (325i)	15–2
S2	IGNITION SWITCH	Top of steering column	21–2
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	Center console near gearshift lever	29–1
S4	HORN SWITCH	Top of steering column	21–1
S5	WIPER/WASHER SWITCH	RH side of steering column above	21–2
S7	COMBINATION SWITCH	LH side of dash	21–3
S8	LIGHT SWITCH	LH side of dash	
S10	FOG LIGHT SWITCH	LH side of dash	
S13	PASSENGER'S DOOR JAMB SWITCH	In lower RH B-pillar	33–3
S14	DRIVER'S DOOR JAMB SWITCH	In lower LH B-pillar	33–3
S15	REAR RIGHT DOOR JAMB SWITCH	In lower RH C-pillar	
S16	LEFT REAR DOOR JAMB SWITCH	In lower LH C-pillar	
S17	MIRROR CONTROL SWITCH	LH front door	
S18	HAZARD SWITCH	Center console near gearshift lever	29–1
S27	INERTIA SWITCH	In lower RH A-pillar	
S28	CRUISE CONTROL SWITCH	RH side of steering column above	21–2
S29	BRAKE LIGHT SWITCH	On brake pedal support bracket	23–1
S30	BRAKE LIGHT SWITCH	On brake pedal support bracket	23–2

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
S31	PARK BRAKE SWITCH	On rear of park brake lever		28-2
S32	CLUTCH SWITCH	On clutch pedal support bracket		23-1
S36	TEMPERATURE SWITCH	Front RH side of engine compartment		17-3
S37	GLOVE BOX LIGHT SWITCH	Behind glove box right		28-1
S38	SUNROOF SWITCH	In roof panel		18-2
S41	LEFT REAR WINDOW SWITCH	In lower LH rear door behind trim panel		
S42	RIGHT REAR WINDOW SWITCH	In lower RH rear door behind trim panel		
S47	DRIVER'S DOOR LOCK SWITCH	Driver's door		
S48	DRIVER'S DOOR HANDLE SWITCH	Driver's door		
S49	PASSENGER'S DOOR LOCK SWITCH	Passenger's door		
S51	DRIVER'S SEAT SEAT CONTROL SWITCH	Center console		
S52	DRIVER'S SEAT LUMBAR SWITCH	Center console		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever		30-1
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever		29-3
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	Center console		
S58	DRIVER'S SEAT BELT SWITCH			
S63	ENGINE COOLANT LEVEL SWITCH	Front RH side of engine compartment		
S64	WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir		16-3
S71	LEFT FRONT IMPACT SENSOR	LH side of engine compartment		
S72	RIGHT FRONT IMPACT SENSOR	Front RH side of engine compartment		16-2

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
S75	BLOWER SWITCH	Center of dash under the control modules		
S77	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor		
S78	PASSENGER'S MAKEUP MIRROR SWITCH	Above RH sun visor		
S123	ABS PEDAL TRAVEL SENSOR	Rear LH side of engine compartment near brake master cylinder		12-1
S124	RIGHT REAR DOOR CONTACT	Rear RH door pillar		33-2
S125	LEFT REAR DOOR CONTACT	LH rear door jamb		33-2
S130	CHILD PROTECTION CONTROL (CONSOLE)	Center console		
S179	DRIVER'S WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH	LH front door in door at key lock assembly		
S180	PASSENGER'S WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH	RH front door in door at key lock assembly		
S20y	RADIO MICROSWITCH	Center console behind radio		22-2
S61y	TRUNK LIGHT SWITCH	Underside of trunk lid left		35-2
S126y	DRIVER'S POWER WINDOW SWITCH	Center console near gearshift lever		29-2
S127y	PASSENGER'S POWER WINDOW SWITCH	Center console near gearshift lever		29-2
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console		
S129y	RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console		
S134y	IHKR CONTROL PANEL	Center of dash		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S8503	PROGRAM SWITCH	Center console		
S8507	KICK-DOWN SWITCH	Below LH side of dash		
S8511	REVERSING LIGHT SWITCH	Under front of car LH side of transmission EGS A4S 310R	07-3	
T6151	CYL. 1 IGNITION COIL	Top RH side of engine (325i)	14-2	
T6152	CYL. 2 IGNITION COIL	Top RH side of engine (325i)	14-2	
T6153	CYL. 3 IGNITION COIL	Top RH side of engine (325i)	14-2	
T6154	CYL. 4 IGNITION COIL	Top RH side of engine (325i)	14-2	
T6155	CYL. 5 IGNITION COIL	Top RH side of engine (325i)	14-2	
T6156	CYL. 6 IGNITION COIL	Top RH side of engine (325i)	14-2	
U4	TELEPHONE HANDSET	Center console		
V4	DAYTIME RUNNING LIGHTS CODING DIODE	LH side of dash		
X2	BATTERY B+ START POINT	Rear LH side of engine compartment in Power Distribution Box	03-1	
X3	B+ JUNCTION POINT	Rear LH side of engine compartment in Power Distribution Box	03-1	
X3	B+ JUNCTION POINT	Rear LH side of engine compartment in Power Distribution Box		
X9	B+ JUNCTION POINT	Rear LH side of engine compartment in Power Distribution Box	03-1	
X11	CONNECTOR (55-PINS, BLACK)	Below RH side of dash	27-1	00-1
X13	CONNECTOR (30-PINS, BLACK)	Footwell, driver's side	25-1	00-4
X14	CONNECTOR (30-PINS, WHITE)	Footwell, driver's side	25-1	00-4
X16	CONNECTOR (26-PINS, WHITE)	LH side of dash rear of A2 instrument cluster	22-1	00-2
X17	CONNECTOR (26-PINS, BLUE)	LH side of dash rear of A2 instrument cluster	22-1	00-2

COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X20	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment near brake master cylinder	12-1	06-2
X22	CONNECTOR (26-PINS, BLUE)	Below RH side of dash	27-3	00-2
X31	CONNECTOR (12-PINS, BLACK)	Rear LH side of engine compartment		02-2
X32	CONNECTOR (12-PINS, WHITE)	Center of steering column	23-3	11-1
X33	CONNECTOR (12-PINS, BLACK)	Center of steering column	23-2	03-5
X35	CONNECTOR (12-PINS, WHITE)	Below LH side of dash RH side of steering column	26-2	11-1
X43	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X44	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X45	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X51	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X52	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X53	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X54	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X55	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X56	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X58	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X61	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X63	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X64	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X65	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X69 ...	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment near brake master cylinder	12-1	06-2
X70 ...	CONNECTOR (8-PINS, BLACK)	Front LH side of engine compartment	16-1	02-4
X72 ...	CONNECTOR (8-PINS, WHITE)	Center of steering column	23-2	04-5
X74 ...	CONNECTOR (12-PINS, BLUE)	RH side of dash behind glove box		01-3
X75 ...	CONNECTOR (12-PINS, WHITE)	RH side of dash behind glove box		01-3
X78 ...	CONNECTOR (4-PINS, BLACK)	On brake pedal support bracket	23-2	04-3
X81 ...	CONNECTOR (3-PINS, ORANGE)	LH side of engine compartment		03-4
X82 ...	CONNECTOR (3-PINS, BLACK)	Front of engine compartment on auxiliary fan		08-2
X85 ...	CONNECTOR (3-PINS, BLACK)	Rear LH side of engine compartment near brake master cylinder	12-2	03-2
X86 ...	CONNECTOR (3-PINS, ORANGE)	Front RH side of engine compartment on washer fluid reservoir	16-2	03-4
X87 ...	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment	17-3	08-2
X99 ...	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X107 ..	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	16-3	
X109 ..	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	16-3	
X110 ..	CONNECTOR (2-PINS, GRAY)	Back of RH side shock tower	10-2	
X111 ..	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment top of brake fluid reservoir	12-2	
X112 ..	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment RH top of radiator		
X113 ..	CONNECTOR (2-PINS, GRAY)	Behind RH front wheel	06-2	
X114 ..	CONNECTOR (2-PINS, GRAY)	Behind LH front wheel	06-2	
X116 ..	CONNECTOR (2-PINS, BLACK)	On brake pedal support bracket	23-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X118 ..	CONNECTOR (2-PINS, BLACK)	Above LH front wheel well behind LH front wheel	06-2	
X121 ..	CONNECTOR (2-PINS, BLACK)	On clutch pedal support bracket	23-1	
X123 ..	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	16-2	
X126 ..	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	17-2	
X127 ..	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	17-2	
X128 ..	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment		
X132 ..	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X133 ..	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X137 ..	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment		
X142 ..	CONNECTOR (3-PINS, GRAY)	Under rear of car on differential	09-3	03-2
X143 ..	CONNECTOR (3-PINS, GRAY)	Under rear of car on differential	09-2	03-2
X163 ..	CONNECTOR (3-PINS, BLACK)	On A/C compressor	17-2	03-2
X165 ..	GROUND	Front LH side of engine compartment	04-3	
X165 ..	GROUND	Front LH side of engine compartment	17-1	
X168 ..	CONNECTOR (1-PINS, BLACK)	LH side of steering column	21-3	
X173 ..	GROUND	Below LH side of dash	05-3	
X173 ..	GROUND	Below LH side of dash	22-3	
X256 ..	CONNECTOR (26-PINS, BLACK)	Passenger's door	32-3	05-1
X257 ..	CONNECTOR (26-PINS, BLACK)	Driver's door	32-1	05-1
X271 ..	CONNECTOR (12-PINS, BLACK)	LH side of dash rear of A2 instrument cluster	22-1	01-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X272	CONNECTOR (2-PINS, BLACK)	In roof panel	18-2	
X273	CONNECTOR (12-PINS, BLACK)	In lower LH B-pillar	33-3	01-2
X274	CONNECTOR (12-PINS, BLACK)	In lower RH B-pillar	33-3	01-2
X275	CONNECTOR (4-PINS, WHITE)	Under LH front seat under carpet	19-2	04-3
X279	CONNECTOR (4-PINS, WHITE)	Under RH front seat	19-1	04-3
X285	CONNECTOR (15-PINS, BLUE)	On washer fluid reservoir below		00-3
X292	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X295	CONNECTOR (8-PINS, BLACK)	Center of steering column	23-2	04-5
X304	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X311	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid left	35-2	05-6
X312	CONNECTOR (2-PINS, BLACK)	In RH rear side of luggage compartment	34-1	
X315	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid left	35-2	
X316	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	29-2	09-2
X317	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	29-1	09-2
X318	CONNECTOR (8-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	34-1	02-1
X319	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment behind LH rear light assembly	34-3	02-1
X320	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	29-1	09-2
X322	CONNECTOR (6-PINS, BLACK)	Footwell, driver's side	23-3	07-4
X323	CONNECTOR (6-PINS, WHITE)	In roof panel	18-3	04-1
X324	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	29-2	09-2

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X331 ..	CONNECTOR (5-PINS, BLACK)	Below RH side of dash	27-3	01-4
X333 ..	CONNECTOR (4-PINS, BLACK)	Rear of engine compartment left	12-3	09-3
X333 ..	CONNECTOR (4-PINS, BLACK)	Below LH side of dash RH side of steering column	26-2	09-3
X335 ..	CONNECTOR (4-PINS, BLACK)	Below RH side of dash	27-3	01-6
X336 ..	CONNECTOR (6-PINS, WHITE)	In roof panel	18-1	10-6
X351 ..	CONNECTOR (2-PINS, BLACK)	In lower RH B-pillar	33-3	
X352 ..	CONNECTOR (2-PINS, BLACK)	In lower LH B-pillar	33-3	
X355 ..	CONNECTOR (2-PINS, BLACK)	In lower RH C-pillar	20-2	
X356 ..	CONNECTOR (2-PINS, BLACK)	In lower LH C-pillar	20-3	
X372 ..	CONNECTOR (2-PINS, GRAY)	Back of RH side shock tower	10-2	
X379 ..	CONNECTOR (1-PINS, NATURAL)	In lower LH C-pillar	20-3	
X380 ..	CONNECTOR (1-PINS, NATURAL)	In lower RH C-pillar	20-2	
X381 ..	CONNECTOR (3-PINS, BLACK)	In roof panel	18-3	01-1
X382 ..	CONNECTOR (3-PINS, BLACK)	In roof panel	18-1	01-1
X383 ..	CONNECTOR (2-PINS, BLACK)	Under rear of car on differential	09-2	
X386 ..	CONNECTOR (1-PINS, BLACK)	Behind ashtray		
X387 ..	CONNECTOR (1-PINS, BLACK)	Behind ashtray		
X388 ..	CONNECTOR (2-PINS, BLACK)	In lower RH A-pillar		
X389 ..	CONNECTOR (2-PINS, GRAY)	Rear LH side of engine compartment		
X400 ..	CONNECTOR (8-PINS, BLACK)	In RH rear side of luggage compartment		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X401	CONNECTOR (1-PINS, BLACK)	In roof panel	18-3	
X402	CONNECTOR (1-PINS, BLACK)	In roof panel	18-1	
X409	CONNECTOR (2-PINS, BLACK)	Under center of car on catalytic converter		
X423	CONNECTOR (1-PINS, NATURAL)	Below center console on rear of park brake lever		
X424	CONNECTOR (1-PINS, BROWN)	In lower LH C-pillar	20-3	
X494	GROUND	Center console	05-2	
X494	GROUND	Center console	28-3	
X495	GROUND	Below RH side of dash	05-1	
X495	GROUND	Below RH side of dash	26-3	
X498	GROUND	Center console	05-2	
X498	GROUND	Center console	28-3	
X503	CONNECTOR (12-PINS, WHITE)	Below LH side of dash	24-1	02-2
X504	CONNECTOR (4-PINS, WHITE)	Center console	24-1	04-3
X509	CONNECTOR (9-PINS, BLACK)	RH side of dash behind glove box		04-6
X510	CONNECTOR (9-PINS, BLACK)	RH side of dash behind glove box		04-6
X511	CONNECTOR (8-PINS, BLACK)	Center console near gearshift lever	29-1	02-1
X516	CONNECTOR (5-PINS, BLACK)	Center console near gearshift lever	29-1	04-2
X517	CONNECTOR (4-PINS, BLACK)	Below LH side of dash	24-2	04-3
X518	CONNECTOR (4-PINS, BLACK)	Footwell, driver's side	23-3	04-3
X522	CONNECTOR (3-PINS, WHITE)	Footwell, driver's side	23-3	05-6

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X523	CONNECTOR (3-PINS, NATURAL)	LH side of dash		
X531	CONNECTOR (1-PINS, BLACK)	Center console near gearshift lever	30-1	
X532	CONNECTOR (2-PINS, BLACK)	Center console near gearshift lever	30-1	
X537	CONNECTOR (2-PINS, BLACK)	Driver's door	31-2	
X538	CONNECTOR (2-PINS, BLACK)	Passenger's door	32-3	
X539	CONNECTOR (2-PINS, BLACK)	Center console behind radio	22-2	
X540	CONNECTOR (2-PINS, BLACK)	Behind glove box right	28-1	
X541	CONNECTOR (1-PINS, WHITE)	Behind glove box above	28-1	
X542	CONNECTOR (2-PINS, BLACK)	Behind glove box left	28-1	
X603	CONNECTOR (6-PINS, (---))	Center console		06-1
X604	CONNECTOR (6-PINS, (---))	Center console		06-1
X605	CONNECTOR (12-PINS, BLACK)	In LH forward side of luggage compartment	34-2	03-1
X606	CONNECTOR (12-PINS, WHITE)	In LH forward side of luggage compartment	34-2	03-1
X607	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X623	CONNECTOR (4-PINS, BLACK)	Driver's door	31-2	09-6
X624	CONNECTOR (4-PINS, BLACK)	Passenger's door	32-3	09-6
X625	CONNECTOR (6-PINS, WHITE)	Driver's door	31-2	06-1
X630	CONNECTOR (13-PINS, BLACK)	Under center of rear bumper		02-5
X638	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat	20-1	
X641	CONNECTOR (6-PINS, BLACK)	Passenger's door	33-1	10-3

COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X644	CONNECTOR (6-PINS, BLACK)	In lower LH rear door		07-3
X645	CONNECTOR (6-PINS, BLUE)	In lower LH rear door		10-4
X646	CONNECTOR (6-PINS, BLACK)	In lower RH rear door behind trim panel		07-3
X647	CONNECTOR (6-PINS, BLUE)	In lower RH rear door behind trim panel		10-4
X651	CONNECTOR (6-PINS, YELLOW)	Center console near gearshift lever	30-1	06-4
X658	CONNECTOR (6-PINS, YELLOW)	Center console near gearshift lever	29-3	06-4
X660	CONNECTOR (6-PINS, BLACK)	Driver's door	31-3	07-3
X662	CONNECTOR (6-PINS, GRAY)	Below LH side of dash	26-1	05-5
X663	CONNECTOR (6-PINS, GRAY)	RH side of IHKR Plenum	31-1	05-5
X669	CONNECTOR (6-PINS, GRAY)	Behind center of dashboard LH side of IHKR Plenum	26-2	05-5
X679	CONNECTOR (2-PINS, WHITE)	Below RH side of rear seat	20-1	
X700	CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X701	CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X706	CONNECTOR (2-PINS, BLACK)	Center console	28-2	
X709	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate	35-1	
X710	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate	35-1	
X711	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left	35-2	
X712	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left		
X713	CONNECTOR (2-PINS, BLACK)	Under rear of car on differential	09-2	
X714	CONNECTOR (2-PINS, GRAY)	In lower LH rear door behind trim panel		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X720	CONNECTOR (2-PINS, GRAY)	In lower RH rear door behind trim panel		
X726	CONNECTOR (2-PINS, (---))	Under LH front seat		
X727	CONNECTOR (2-PINS, (---))	Under LH front seat		
X728	CONNECTOR (2-PINS, (---))	Under LH front seat		
X729	CONNECTOR (2-PINS, (---))	Under LH front seat		
X732	CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet	19-2	04-3
X733	CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet	19-2	04-3
X734	CONNECTOR (2-PINS, (---))	Under RH front seat		
X735	CONNECTOR (2-PINS, (---))	Under RH front seat		
X736	CONNECTOR (2-PINS, (---))	Under RH front seat		
X737	CONNECTOR (2-PINS, (---))	Under RH front seat		
X740	CONNECTOR (4-PINS, BLACK)	Under RH front seat	19-1	04-3
X741	CONNECTOR (4-PINS, BLACK)	Under RH front seat	19-1	04-3
X742	CONNECTOR (2-PINS, YELLOW)	RH front door in door at key lock assembly		
X744	CONNECTOR (2-PINS, GRAY)	Passenger's door	32-3	
X746	CONNECTOR (2-PINS, BLACK)	Passenger's door	32-3	
X747	CONNECTOR (2-PINS, YELLOW)	Driver's door	31-3	
X751	CONNECTOR (2-PINS, WHITE)	Driver's door	31-3	
X752	CONNECTOR (2-PINS, GRAY)	Driver's door	31-3	
X753	CONNECTOR (2-PINS, BLACK)	Driver's door	31-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X768	CONNECTOR (2-PINS, WHITE)	In the engine compartment near LH headlight assembly	06-1	
X769	CONNECTOR (2-PINS, WHITE)	In the engine compartment near RH headlight assembly	06-1	
X771	CONNECTOR (2-PINS, BLACK)	LH side of IHKR Plenum	25-3	
X772	CONNECTOR (2-PINS, WHITE)	Center console on-board computer (removed)	30-3	
X773	CONNECTOR (2-PINS, WHITE)	Center console on-board computer (removed)	30-3	
X774	CONNECTOR (1-PINS, GRAY)	Rear of engine compartment behind RH fresh air cowl		
X778	CONNECTOR (2-PINS, (---))			
X779	CHARGING SOCKET	Behind glove box left	28-1	
X783	CONNECTOR (2-PINS, ORANGE)	Underside of steering column	24-1	
X784	CONNECTOR (12-PINS, BLUE)	RH side of dash behind glove box		01-3
X805	REMOVABLE SPLICE	Under LH front seat under carpet	19-2	
X816	CONNECTOR (2-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X817	CONNECTOR (1-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl WITH IHKR		
X849	REMOVABLE SPLICE	Driver's door	32-1	
X850	REMOVABLE SPLICE	Driver's door	32-1	
X851	REMOVABLE SPLICE	Driver's door	32-1	
X904	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard LH side of IHKR Plenum	26-1	04-3
X905	CONNECTOR (5-PINS, BLACK)	Behind center of dashboard		08-3
X998	CONNECTOR (4-PINS, BLACK)	Below center console		03-6
X999	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard RH side of IHKR Plenum		04-3

COMPONENT LOCATION CHART

COMPONENT		PAGE – FIGURE 7100.0	8500.0
X1070 . CONNECTOR (18-PINS, BLACK)	Center console	30-2	01-5
X1071 . CONNECTOR (18-PINS, WHITE)	Center console	30-2	01-5
X1074 . CONNECTOR (15-PINS, WHITE)	Below LH side of dash	25-2	00-3
X1075 . CONNECTOR (15-PINS, BLACK)	Below LH side of dash	25-2	00-3
X1082 . CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X1155 . CONNECTOR (3-PINS, BLACK)	Behind center of dashboard		01-1
X1161 . CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		04-6
X1162 . CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment near brake master cylinder	12-1	
X1165 . GROUND	Below LH side of dash	05-3	
X1165 . GROUND	Below LH side of dash	22-3	
X1166 . GROUND	Below RH side of dash	05-1	
X1166 . GROUND	Below RH side of dash	26-3	
X1167 . REMOVABLE SPLICE	Under LH front seat under carpet	19-2	
X1173 . CONNECTOR (4-PINS, BLACK)	Rear LH side of engine compartment		04-4
X1178 . CONNECTOR (2-PINS, WHITE)	Center console LH side of gearshift selector		
X1181 . CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X1193 . CONNECTOR (2-PINS, BLACK)	Center console RH side of gearshift selector		
X1213 . CONNECTOR (2-PINS, BLACK)	Center console	28-2	
X1222 . CONNECTOR (6-PINS, WHITE)	In RH forward side of luggage compartment	34-1	05-2
X1234 . REMOVABLE SPLICE	Under LH front seat under carpet	19-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1239	CONNECTOR (2-PINS, WHITE)	Rear RH door pillar	33-2	
X1240	CONNECTOR (2-PINS, BLACK)	LH rear door jamb	33-2	
X1241	CONNECTOR (2-PINS, WHITE)	Below LH side of rear seat	19-3	
X1243	CONNECTOR (6-PINS, BLACK)	Center console near gearshift lever	29-2	09-2
X1245	CONNECTOR (1-PINS, BLACK)	In roof panel	18-3	
X1246	CONNECTOR (1-PINS, BLACK)	In roof panel	18-1	
X1260	CONNECTOR (1-PINS, NATURAL)			
X1261	CONNECTOR (1-PINS, NATURAL)			
X1380	CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X1381	CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X1405	CONNECTOR (1-PINS, NATURAL)	Rear LH side of engine compartment in Power Distribution Box		
X1406	CONNECTOR (1-PINS, WHITE)	Rear LH side of engine compartment in Power Distribution Box		
X1426	CONNECTOR (9-PINS, BROWN)	Rear RH side of engine compartment in E-Box		04-6
X6000	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box	10-3	08-1
X6002	CONNECTOR (20-PINS, BLACK)	Back of RH side shock tower	10-1	05-4
X6101	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6102	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6103	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6104	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6105	CONNECTOR (2-PINS, BLACK)	Top center of engine		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6106	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6120	CONNECTOR (2-PINS, BLACK)	LH side of engine (325i)	15-3	
X6130	CONNECTOR (2-PINS, BLACK)	Rear of engine (318is)	13-2	
X6130	CONNECTOR (2-PINS, BLACK)	RH front of engine (325i)	15-1	
X6151	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6152	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6153	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6154	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6155	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6156	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6200	CONNECTOR (4-PINS, BLACK)	On RH side of transmission (318is)	08-1	04-4
X6200	CONNECTOR (4-PINS, BLACK)	Under center of car (325i)	08-2	04-4
X6205	CONNECTOR (2-PINS, BLACK)	LH side of engine (325i)	15-2	
X6206	CONNECTOR (7-PINS, BLACK)	LH side of engine (325i)	15-3	05-3
X6231	CONNECTOR (2-PINS, BLACK)	Rear of engine (318is)	13-2	
X6231	CONNECTOR (2-PINS, BLACK)	RH front of engine (325i)	14-3	
X6232	CONNECTOR (2-PINS, BLACK)	RH front of engine (325i)	15-1	
X6236	CONNECTOR (2-PINS, BLACK)	RH front of engine (325i)	14-3	
X6241	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6242	CONNECTOR (2-PINS, BLACK)	LH side of engine		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6252	CONNECTOR (3-PINS, BLACK)	LH side of engine on intake manifold (318is)	13-3	
X6252	CONNECTOR (3-PINS, BLACK)	LH side of engine (325i)	15-2	09-4
X6300	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		04-6
X6301	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		04-6
X6303	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		04-6
X6454	GROUND	Back of RH side shock tower	04-1	
X6454	GROUND	Back of RH side shock tower	10-1	
X6456	GROUND	RH front of engine (325i)	15-1	
X6507	CONNECTOR (1-PINS, BLACK)	Rear RH side of engine compartment in E-Box		
X6509	CABLE SOCKET ALTERNATOR B+	Front LH side of engine compartment below (325i)		
X6510	CABLE SOCKET STARTER TERMINAL 50	Rear LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET ALTERNATOR TERMINAL 30h	Rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	Rear LH side of engine compartment below intake manifold		
X7509	CABLE SOCKET ALTERNATOR TERMINAL D+	Front LH side of engine compartment below (325i)		
X8500	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment in E-Box EGS A4S 310R	10-3	00-1
X8503	CONNECTOR (10-PINS, WHITE)	Center console RH side of gearshift selector	29-2	03-3
X8507	CONNECTOR (1-PINS, BLACK)	Below LH side of dash		
X8511	CONNECTOR (1-PINS, BLACK)	Under front of car LH side of transmission EGS A4S 310R	07-3	
X8516	CONNECTOR (2-PINS, BLACK)	Under center of car EGS A4S 310R	09-1	
X8521	CONNECTOR (9-PINS, BLACK)	Under center of car above	08-3	10-1

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X8524	CONNECTOR (1-PINS, BLACK)	Under front of car LH side of transmission EGS A4S 310R	07-3	
X8525	CONNECTOR (3-PINS, BLACK)	Under center of car		09-4
X9744	CONNECTOR (6-PINS, BLACK)	Passenger's door	32-2	10-3
X9749	CONNECTOR (6-PINS, BLACK)	Driver's door	31-2	10-3
X9997	CONNECTOR (2-PINS, BLACK)	Behind steering wheel	21-1	
X10006	CONNECTOR (1-PINS, WHITE)	Behind glove box above	28-1	
X10010	GROUND	Below RH side of dash	05-1	
X10010	GROUND	Below RH side of dash	26-3	
X10012	GROUND	Below RH side of dash	05-1	
X10012	GROUND	Below RH side of dash	26-3	
X10031	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X10033	CONNECTOR (1-PINS, BLACK)	Top of steering column	21-3	
X10034	CONNECTOR (2-PINS, (---))	Power Distribution Box rear LH side of engine compartment		
X10035	CONNECTOR (2-PINS, (---))	Power Distribution Box rear LH side of engine compartment		
X10036	CONNECTOR (2-PINS, (---))	Power Distribution Box rear LH side of engine compartment		
X10054	CONNECTOR (12-PINS, BLACK)	Below LH side of dash RH side of steering column	26-2	03-5
X10070	CONNECTOR (2-PINS, GRAY)	Front LH side of engine compartment	17-1	
X10071	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment	17-1	
X10074	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	17-3	
X10075	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment	17-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X13004	GROUND	In upper RH rear seatback	04-2	
X13004	GROUND	In upper RH rear seatback	20-2	
X13006	GROUND	In upper LH rear seatback	20-3	
X13009	GROUND	Below RH side of dash	05-1	
X13009	GROUND	Below RH side of dash	26-3	
X13012	CONNECTOR (26-PINS, WHITE)	Below RH side of dash	27-2	00-2
X13013	CONNECTOR (5-PINS, BLACK)	Below RH side of dash	27-2	01-4
X13014	CONNECTOR (4-PINS, BLACK)	Below RH side of dash	27-2	01-6
X13016	GROUND	Below LH side of dash	05-3	
X13016	GROUND	Below LH side of dash	22-3	
X13025	CONNECTOR (26-PINS, BLACK)	Below RH side of dash	27-3	00-2
X13026	CONNECTOR (1-PINS, BLACK)	Top of steering column	21-3	
X18049	CONNECTOR (2-PINS, GRAY)	In lower LH rear door behind trim panel		
X18080	CONNECTOR (1-PINS, (---))	In luggage compartment		
X18126	CONNECTOR (17-PINS, BLACK)	Center console behind radio	22-2	02-6
X18154	CONNECTOR (26-PINS, BLACK)			00-2
X18155	CONNECTOR (26-PINS, WHITE)	Center console	30-2	00-2
X18156	CONNECTOR (26-PINS, BLACK)	Center console	30-2	00-2
X18157	CONNECTOR (26-PINS, BLUE)	Center console on-board computer (removed)	30-3	00-2
X18180	CONNECTOR (3-PINS, WHITE)	Center console		10-5

COMPONENT LOCATION CHART

COMPONENT

PAGE – FIGURE
7100.0 8500.0

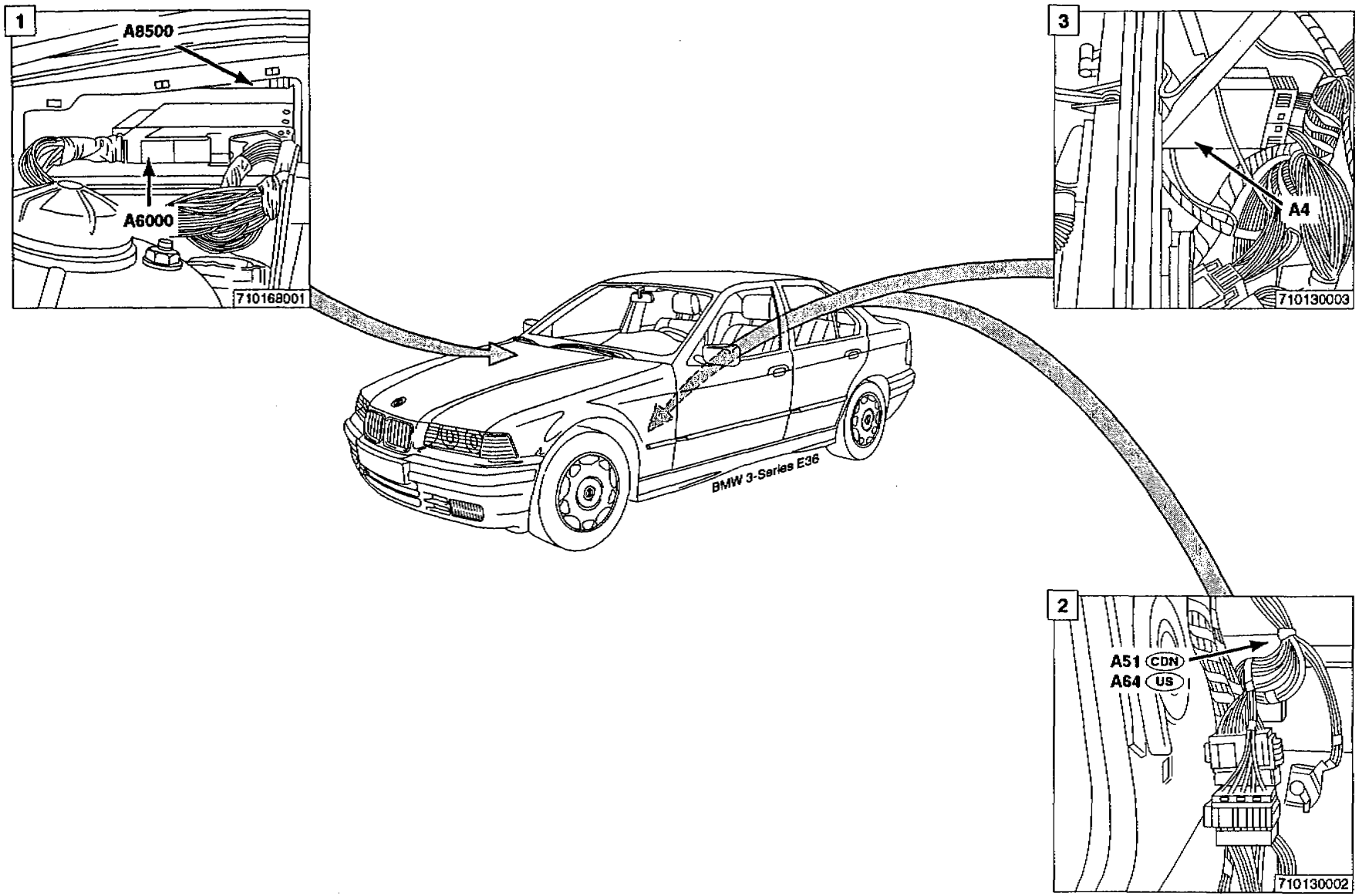
X18277	CONNECTOR (2-PINS, BLACK)	LH front door in door at key lock assembly
X18278	CONNECTOR (2-PINS, BLACK)	RH front door in door at key lock assembly
X18279	CONNECTOR (3-PINS, BLACK)	In lower LH front door behind trim panel
X18280	CONNECTOR (3-PINS, BLACK)	In lower RH side of front door behind trim panel
X18295	CONNECTOR (2-PINS, YELLOW)	In lower RH B-pillar behind trim panel
X18296	CONNECTOR (2-PINS, YELLOW)	In lower LH B-pillar behind trim panel
X18500	CONNECTOR (25-PINS, BLACK)	
X18507	CONNECTOR (4-PINS, BLACK)	
X18509	CONNECTOR (4-PINS, BLACK)	
X18514	CONNECTOR (4-PINS, BLACK)	
X18515	CONNECTOR (4-PINS, BLACK)	
X18741	CONNECTOR (4-PINS, BLACK)	
Y1	ABS HYDRAULIC UNIT	Rear LH side of engine compartment
Y2	AIR CONDITIONING COMPRESSOR	
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment near brake master cylinder ... 12-2
Y5	DRIVER'S SIDE MIRROR	Driver's door
Y6	PASSENGER'S SIDE MIRROR	Passenger's door
Y19	SHIFT-LOCK	Center console RH side of gearshift selector
Y6101	CYL. 1 FUEL INJECTION VALVE	Top center of engine (325i) ... 14-1
Y6102	CYL. 2 FUEL INJECTION VALVE	Top center of engine (325i) ... 14-1

COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0	8500.0
Y6103 . CYL. 3 FUEL INJECTION VALVE	Top center of engine (325i)	14-1	
Y6104 . CYL. 4 FUEL INJECTION VALVE	Top center of engine (325i)	14-1	
Y6105 . CYL. 5 FUEL INJECTION VALVE	Top center of engine (325i)	14-1	
Y6106 . CYL. 6 FUEL INJECTION VALVE	Top center of engine (325i)	14-1	
Y6120 . EVAPORATIVE EMISSION VALVE	LH side of engine (325i)	15-3	
Y6130 . IDLE SPEED CONTROL VALVE	Rear of engine (318is)	13-2	
Y6130 . IDLE SPEED CONTROL VALVE	RH front of engine (325i)	15-1	
Y6131 . INTAKE AIR RESONANCE CHANGEOVER VALVE	Rear LH side of engine compartment		
Y8505 . TRANSMISSION VALVE UNIT	Under center of car EGS A4S 310R	08-3	

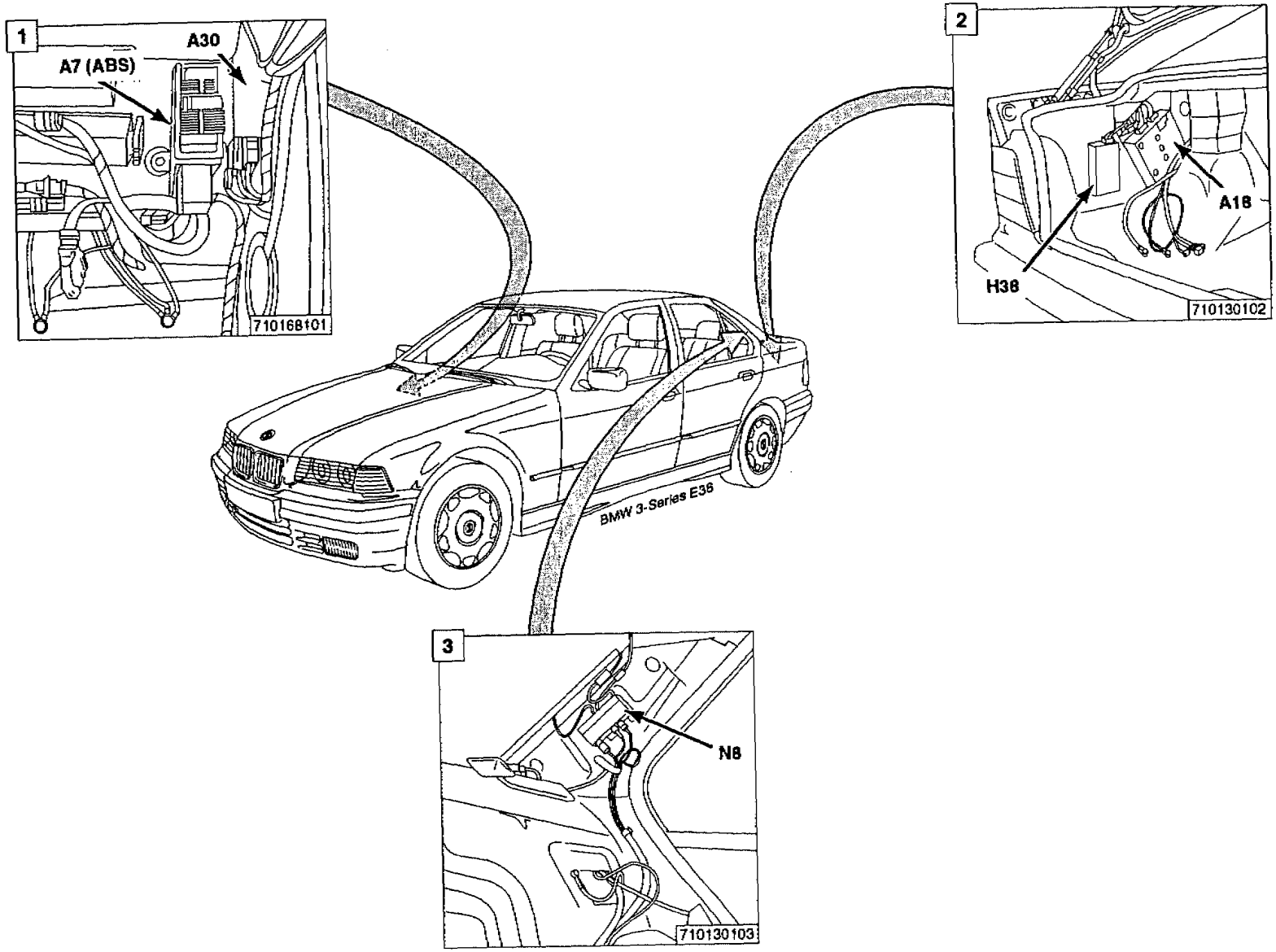
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



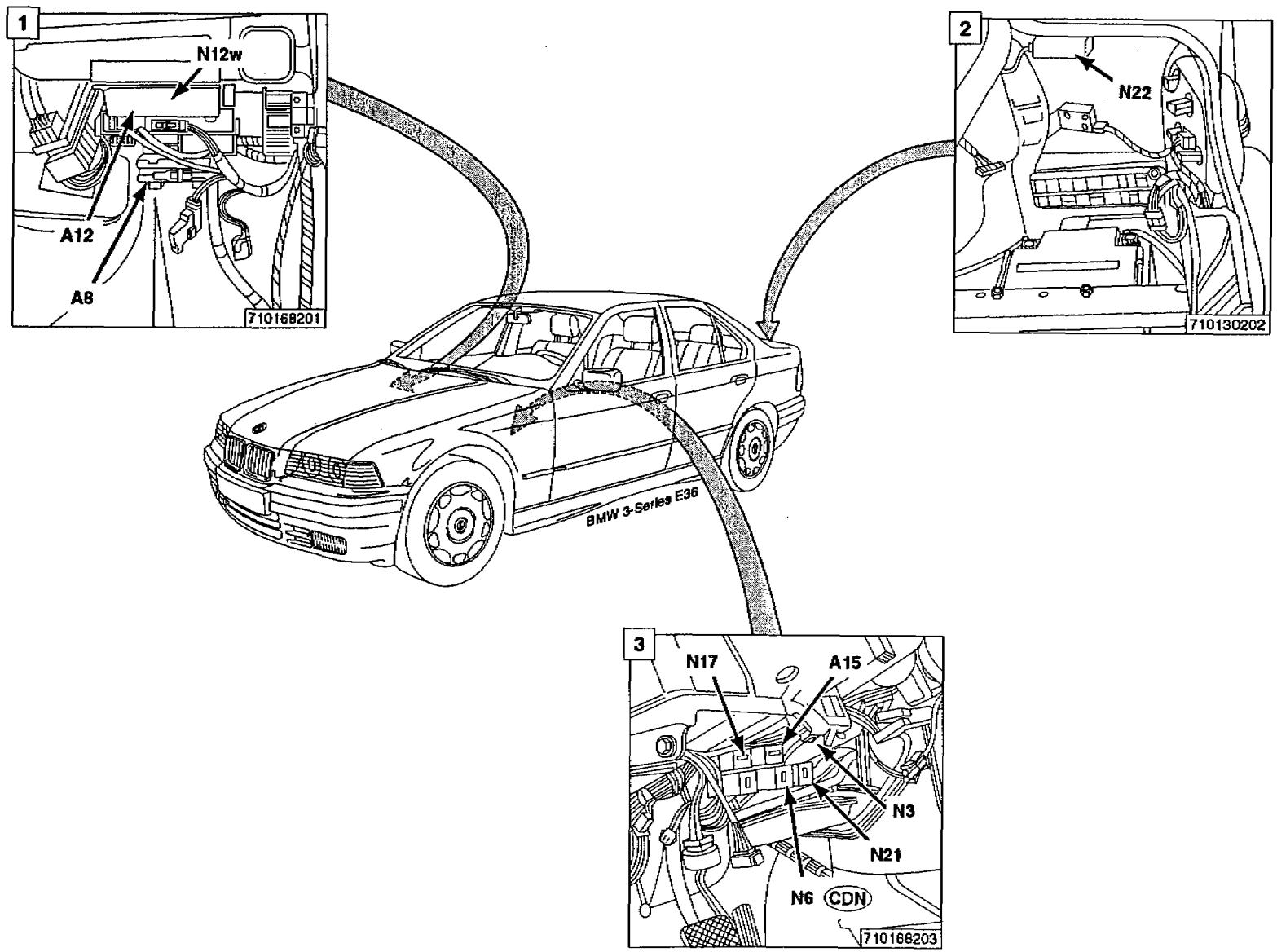
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



COMPONENT LOCATION VIEWS

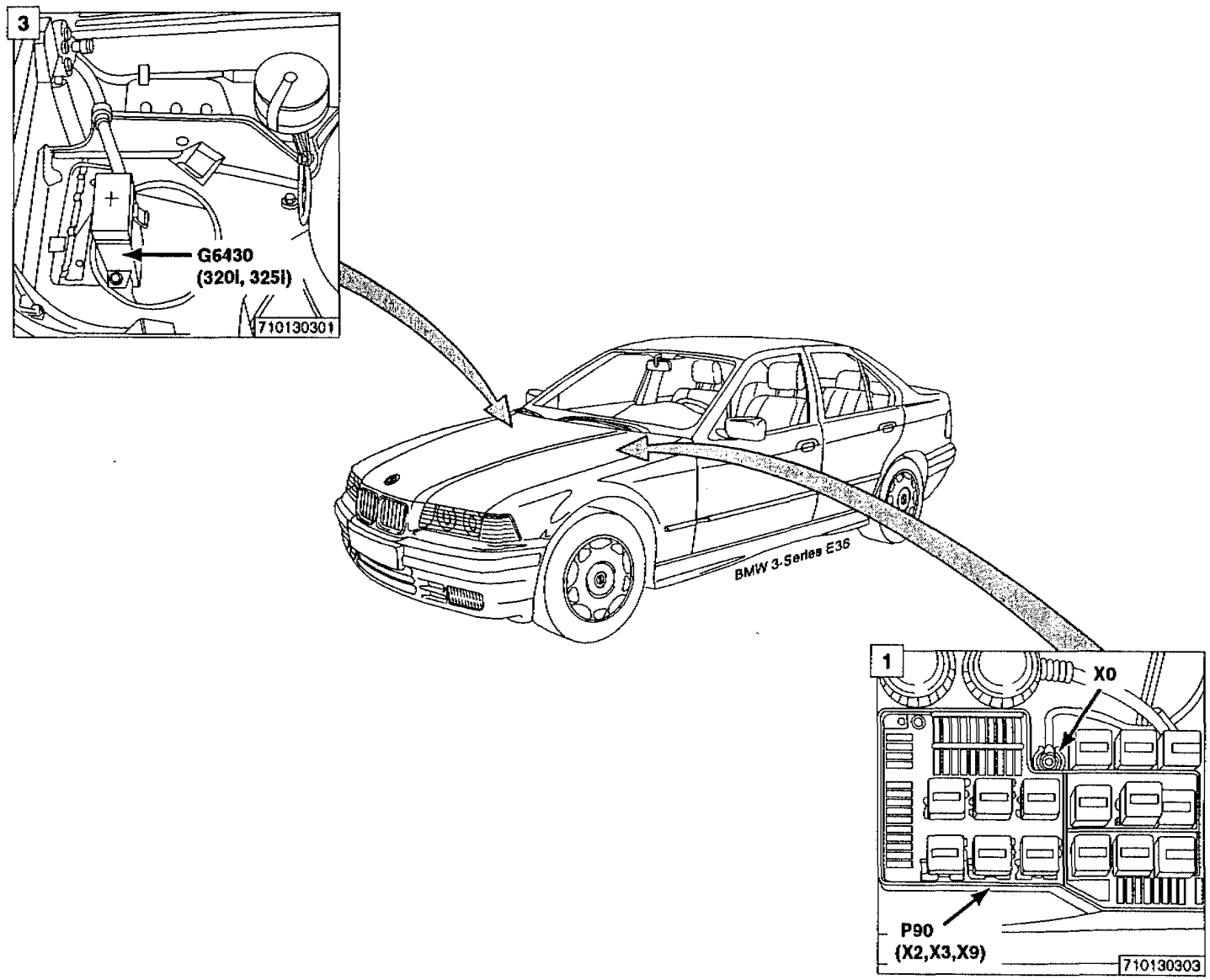
ELECTRICAL CONTROL MODULE LOCATIONS



COMPONENT LOCATION VIEWS

B(+)

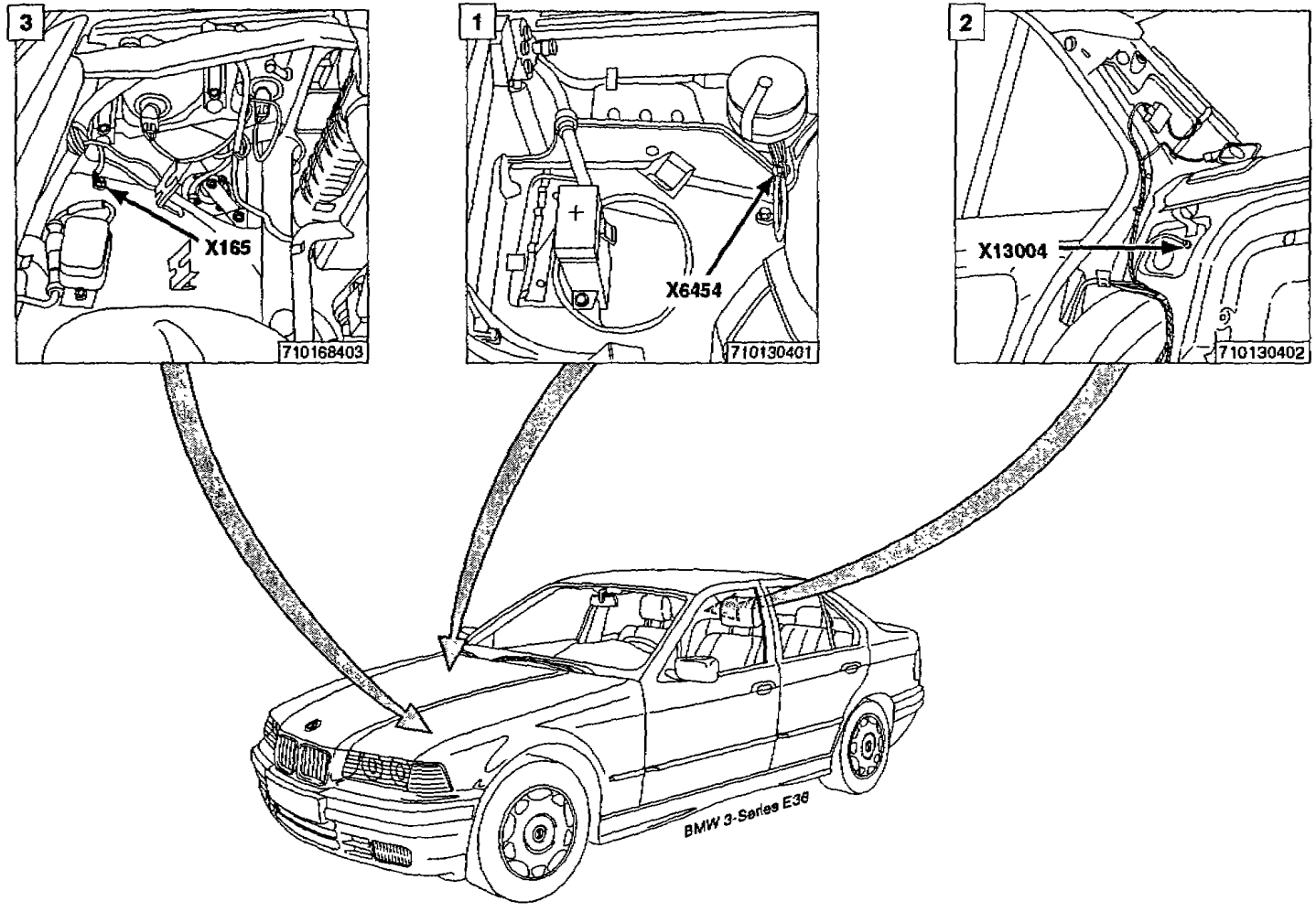
G6430
P90
X0
X2
X3
X9



COMPONENT LOCATION VIEWS

B(-)

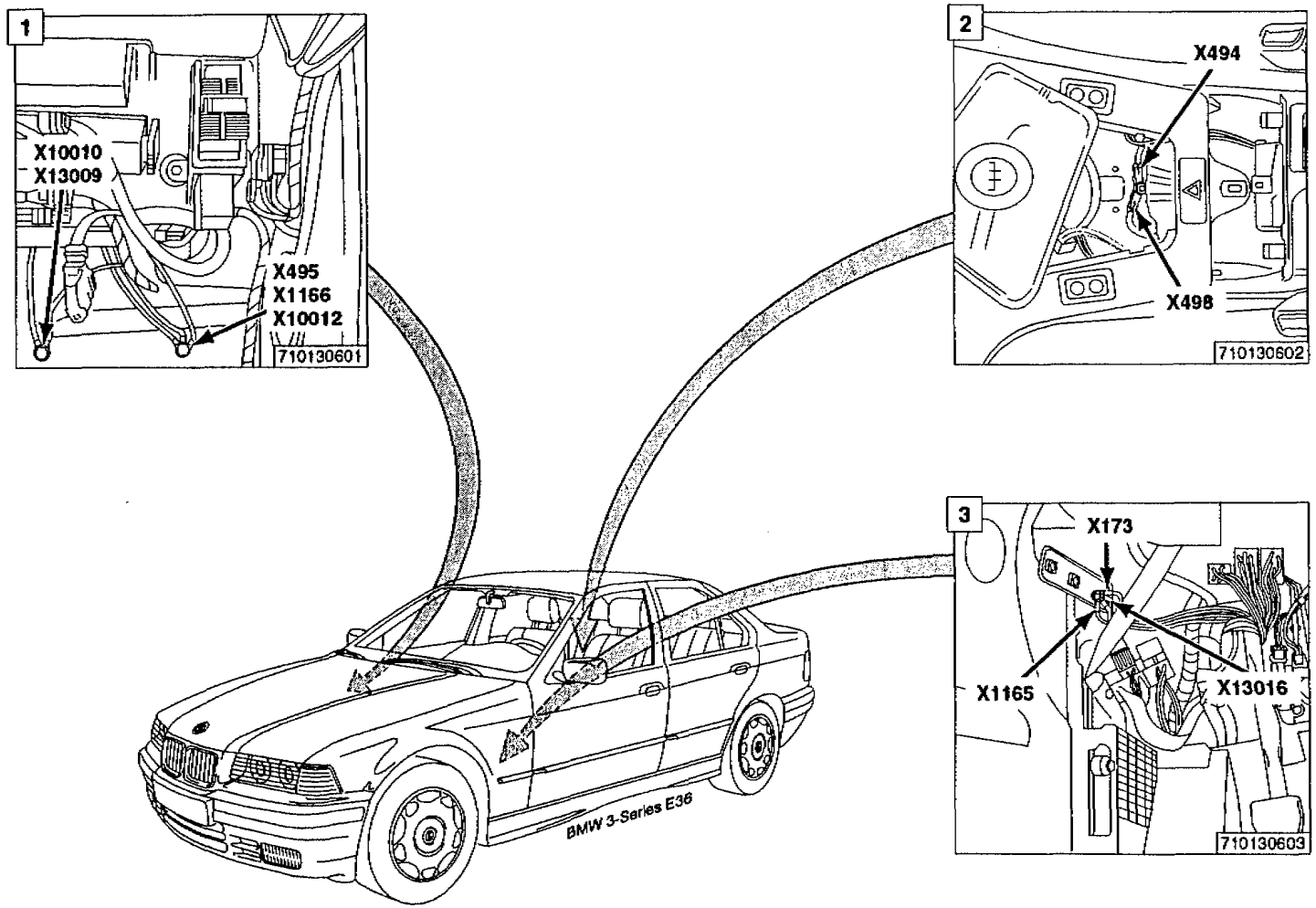
X165
X6454
X13004



COMPONENT LOCATION VIEWS

B(-)

X173
X494
X495
X498
X1165
X1166
X10010
X10012
X13009
X13016



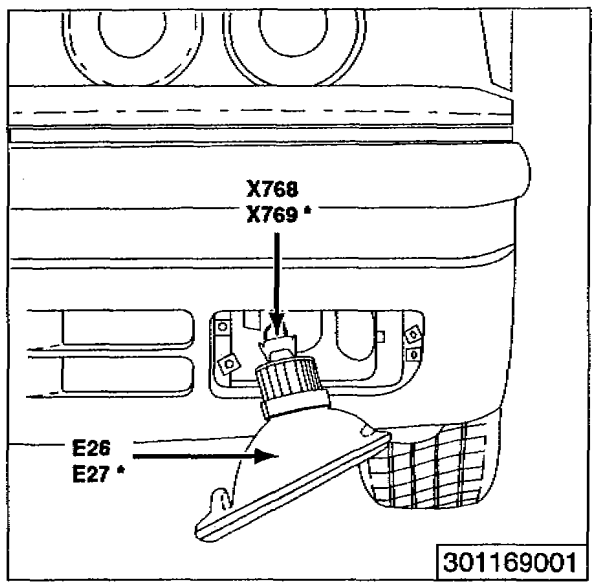


FIG. 1 - Under LH front bumper (*RH similar)

E26 LEFT FOG LIGHT
E27 RIGHT FOG LIGHT
X768 CONNECTOR (2-PINS, WHITE)
X769 CONNECTOR (2-PINS, WHITE)

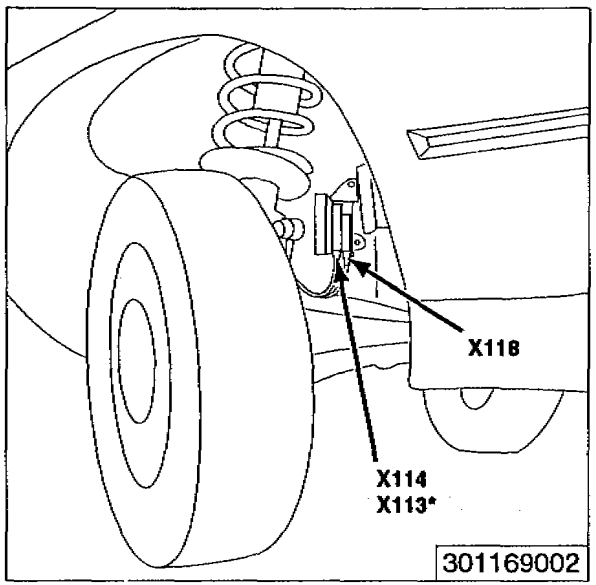


FIG. 2 - Behind LH front wheel (*RH similar)

X113 CONNECTOR (2-PINS, GRAY)
X114 CONNECTOR (2-PINS, GRAY)
X118 CONNECTOR (2-PINS, BLACK)

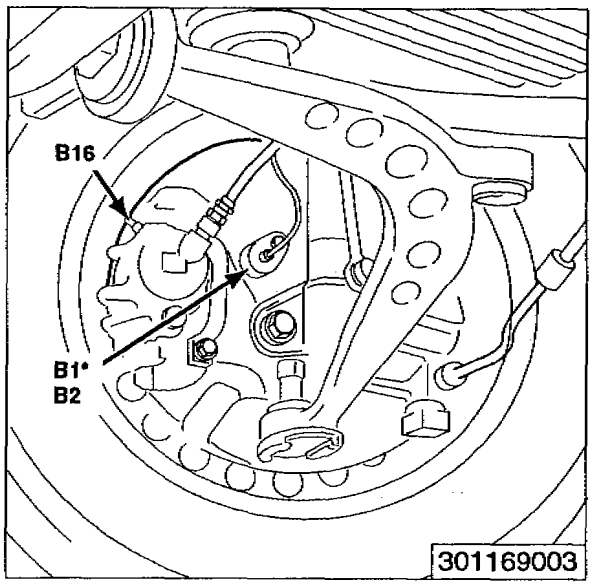


FIG. 3 - On LH front wheel, above brake caliper (*RH similar)

B1 RIGHT FRONT SPEED SENSOR - ABS
B2 LEFT FRONT SPEED SENSOR - ABS
B16 LEFT FRONT BRAKE PAD SENSOR

COMPONENT LOCATION VIEWS

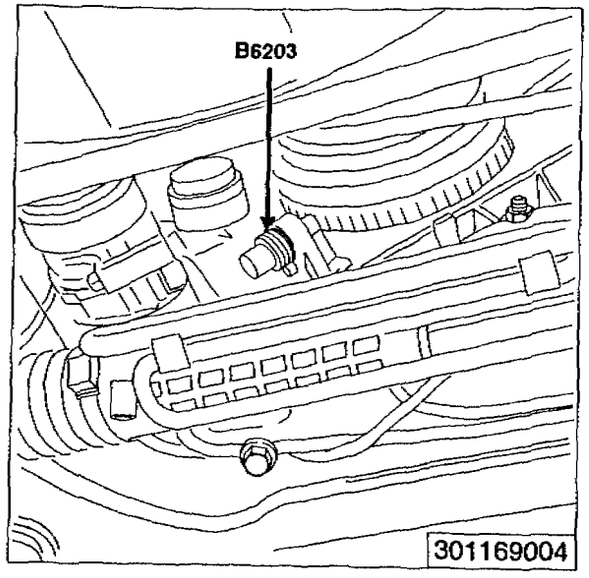


FIG 1 - Under front of car rear of radiator (325I)

B6203 CRANKSHAFT POSITION/RPM SENSOR

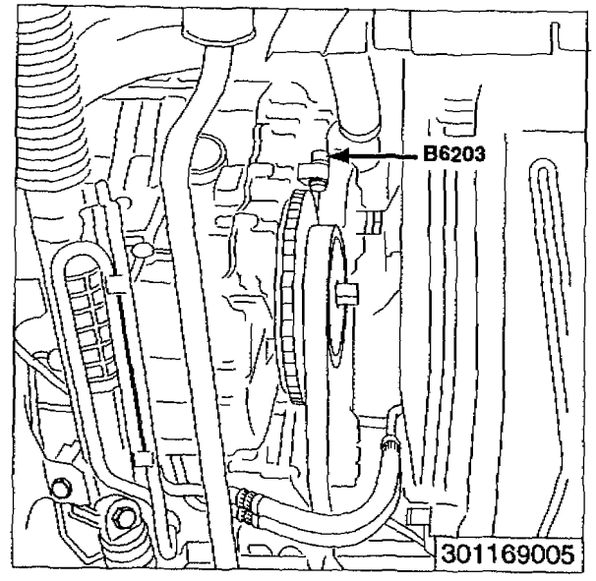


FIG 2 - Under RH front of car rear of radiator (318is)

B6203 CRANKSHAFT POSITION/RPM SENSOR

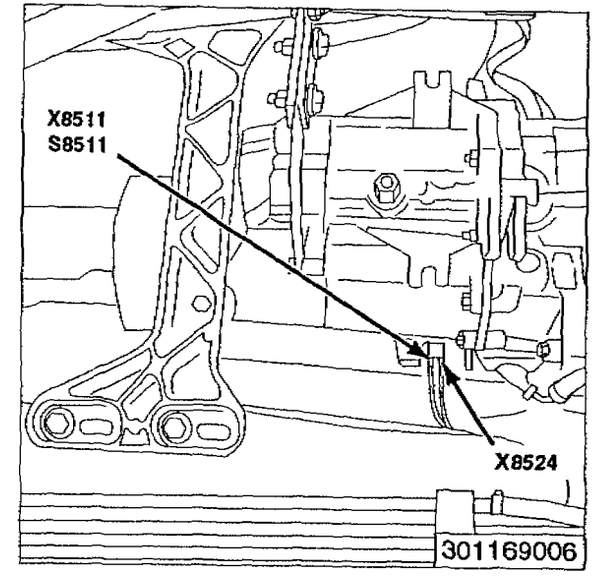


FIG 3 - LH side of transmission EGS A4S 310R

S8511 REVERSING LIGHT SWITCH
X8511 CONNECTOR (1-PINS, BLACK)
X8524 CONNECTOR (1-PINS, BLACK)

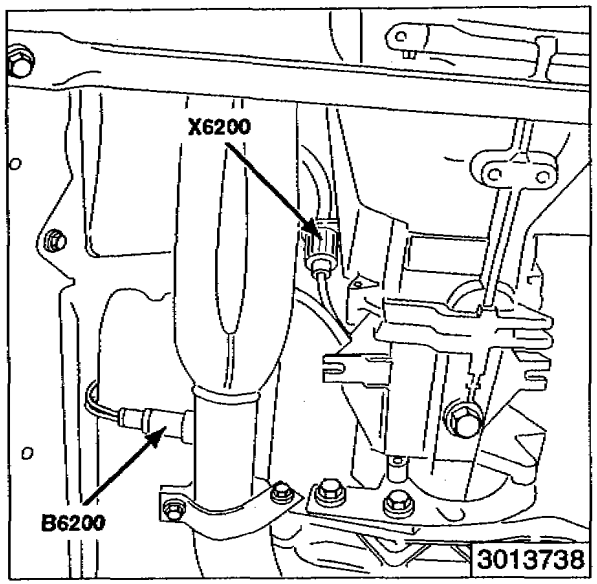


FIG. 1 - *On RH side of transmission (318is)*

B6200 HEATED OXYGEN SENSOR
X6200 CONNECTOR (4-PINS, BLACK)

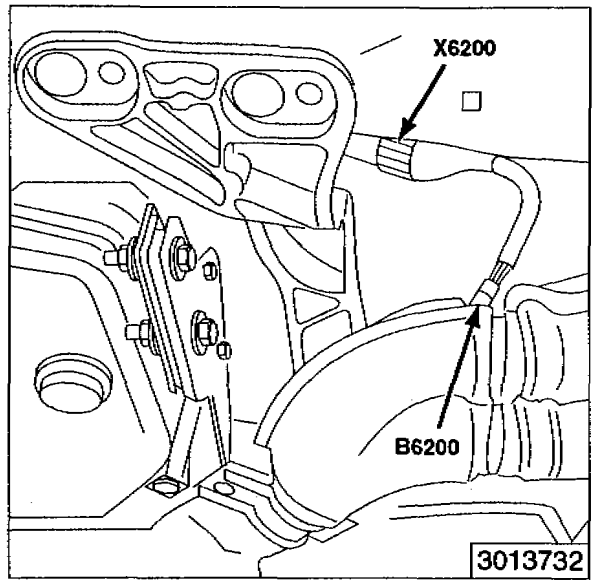


FIG. 2 - *Under center of car (325i)*

B6200 HEATED OXYGEN SENSOR
X6200 CONNECTOR (4-PINS, BLACK)

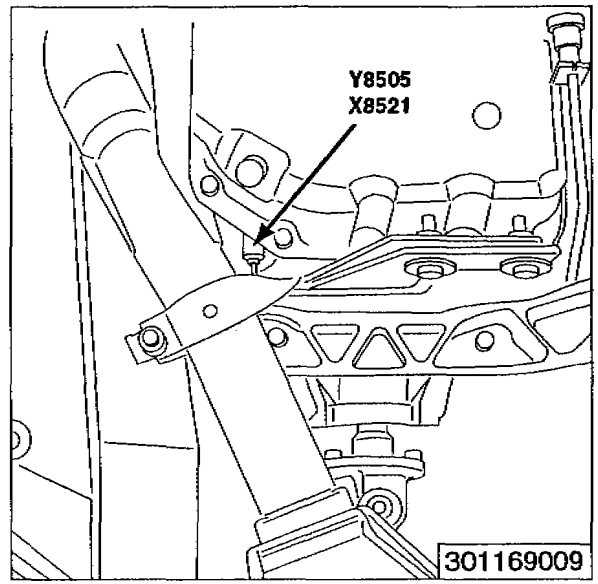


FIG. 3 - LH side of transmission EGS A4S 310R

X8521 CONNECTOR (9-PINS, BLACK)
Y8505 TRANSMISSION VALVE UNIT

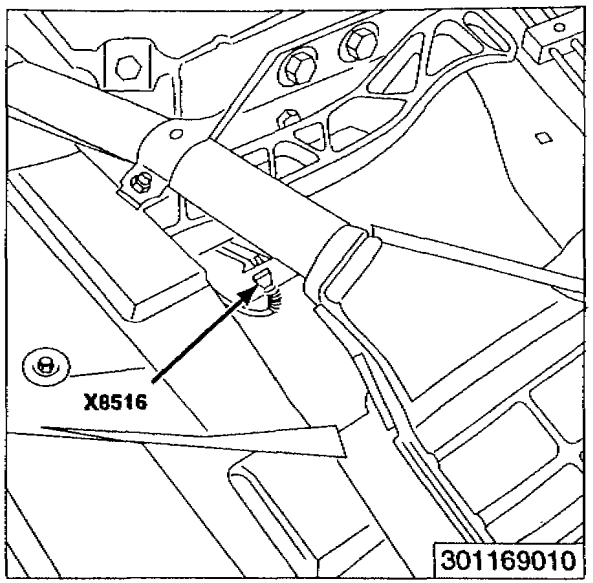


FIG. 1 - Under center of car EGS A4S 310R

X8516 CONNECTOR (2-PINS, BLACK)

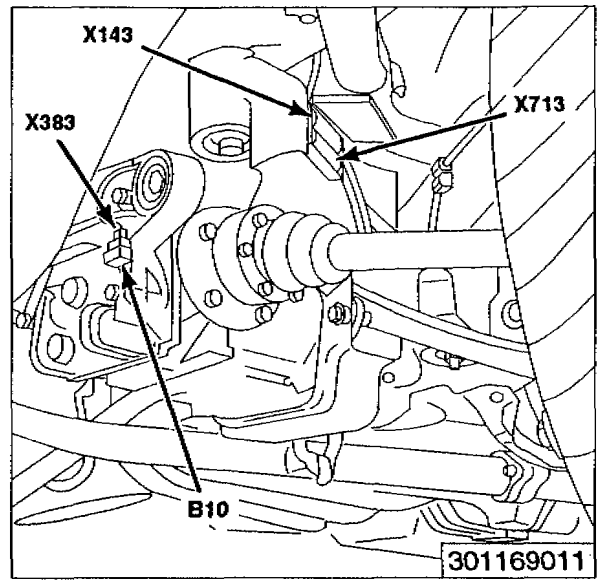


FIG. 2 - Under rear of car on differential

B10 VEHICLE SPEED SENSOR
X143 CONNECTOR (3-PINS, GRAY)
X383 CONNECTOR (2-PINS, BLACK)
X713 CONNECTOR (2-PINS, BLACK)

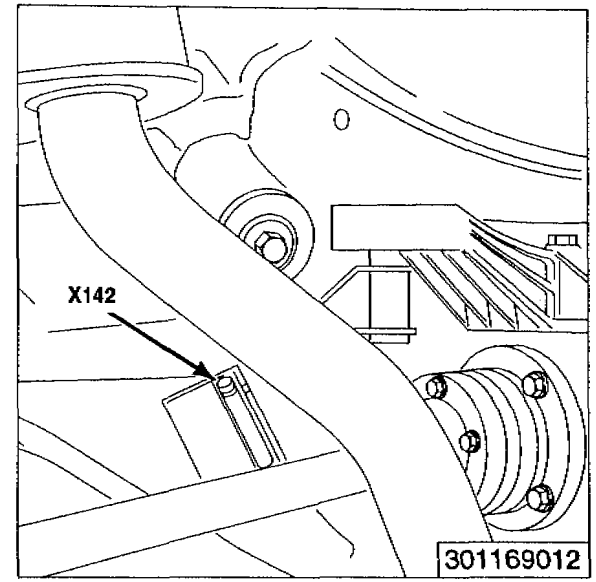


FIG. 3 - Under rear of car on differential

X142 CONNECTOR (3-PINS, GRAY)

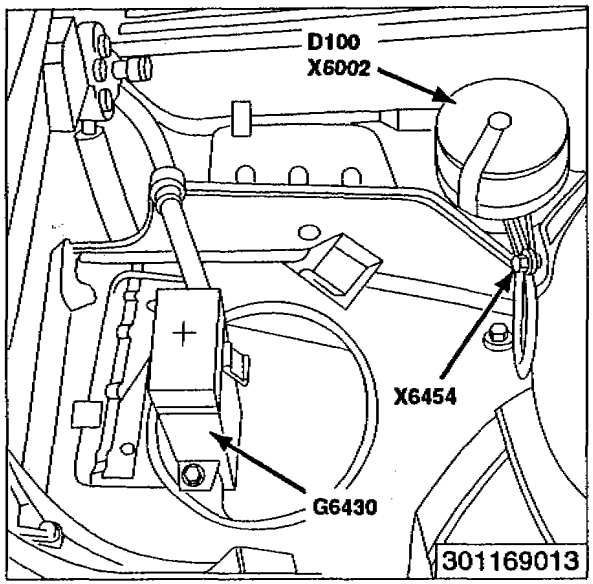


FIG. 1 - Back of RH side shock tower

D100	DATA LINK CONNECTOR
G6430	B+ JUMP START JUNCTION POINT
X6002	CONNECTOR (20-PINS, BLACK)
X6454	GROUND

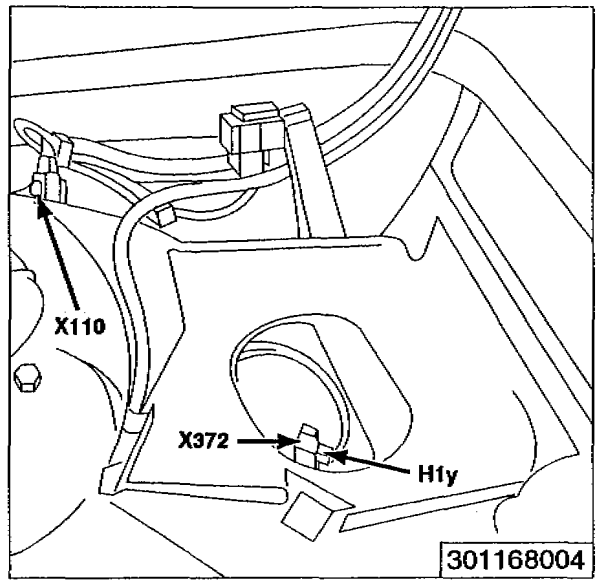


FIG. 2 - Back of RH side shock tower

H1y	ANTI-THEFT HORN
X110	CONNECTOR (2-PINS, GRAY)
X372	CONNECTOR (2-PINS, GRAY)

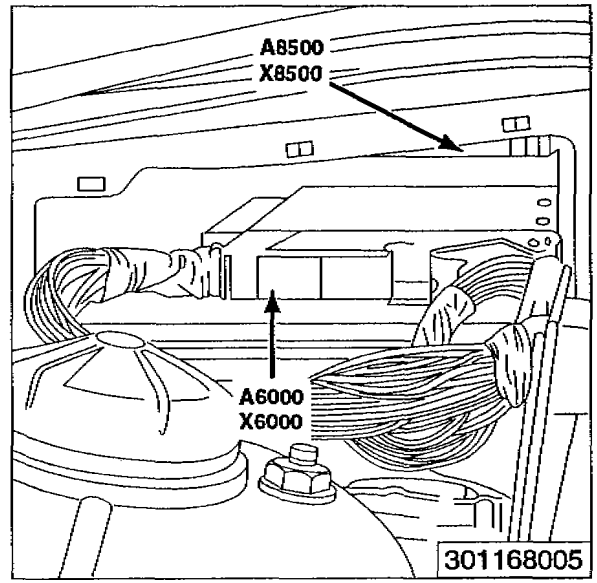


FIG. 3 - Rear RH side of engine compartment in E-Box

A6000	ENGINE CONTROL MODULE (DME)
A8500	TRANSMISSION CONTROL MODULE (EGS)
X6000	CONNECTOR (88-PINS, BLACK)
X8500	CONNECTOR (55-PINS, BLACK)

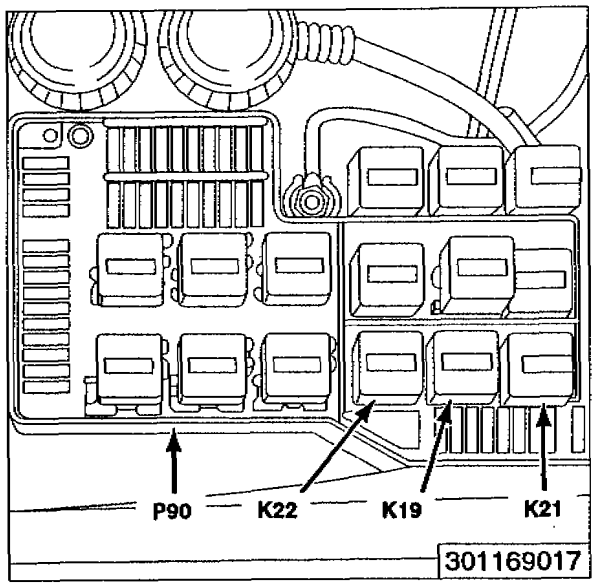


FIG. 1 - Rear LH side of engine compartment in Power Distribution Box

- K19 COMPRESSOR CONTROL RELAY
- K21 NORMAL SPEED RELAY
- K22 HIGH SPEED RELAY
- P90 FRONT POWER DISTRIBUTION BOX

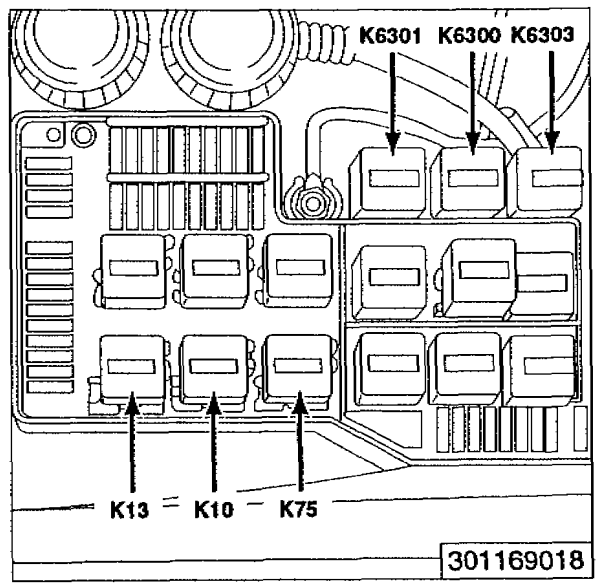


FIG. 2 - Rear LH side of engine compartment in Power Distribution Box

- K10 ABS RELAY
- K13 REAR DEFOGGER RELAY
- K75 ABS PUMP MOTOR RELAY
- K6300 ENGINE CONTROL MODULE RELAY
- K6301 CYL. 1-6 FUEL PUMP RELAY
- K6303 OXYGEN SENSOR RELAY

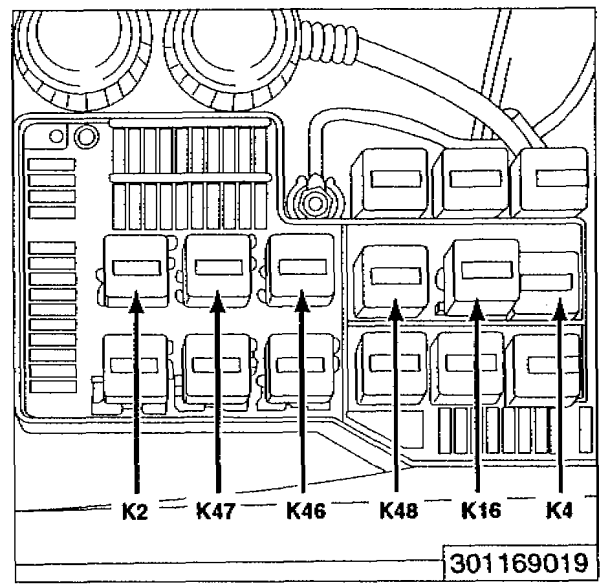


FIG. 3 - Rear LH side of engine compartment in Power Distribution Box

- K2 HORN RELAY
- K4 BLOWER RELAY
- K16 HAZARD FLASHER RELAY
- K46 HIGH BEAM LIGHT RELAY
- K47 FRONT FOG LIGHT RELAY
- K48 LOW BEAM LIGHT RELAY

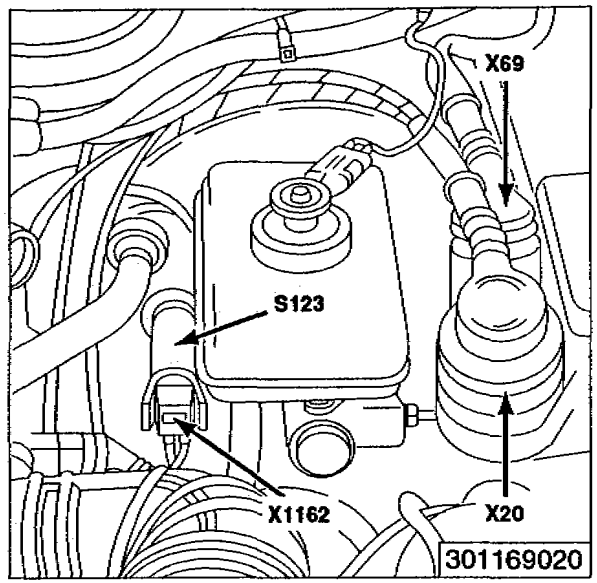


FIG. 1 - Rear LH side of engine compartment

S123 ABS PEDAL TRAVEL SENSOR
X20 CONNECTOR (25-PINS, BLACK)
X69 CONNECTOR (25-PINS, BLACK)
X1162 CONNECTOR (2-PINS, BLACK)

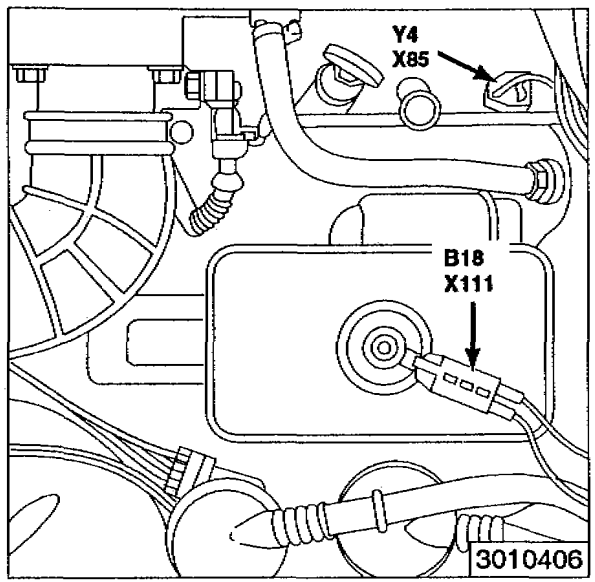


FIG. 2 - Rear LH side of engine compartment near brake master cylinder

B18 BRAKE FLUID LEVEL SWITCH
X85 CONNECTOR (3-PINS, BLACK)
X111 CONNECTOR (2-PINS, BLACK)
Y4 WATER VALVE ASSEMBLY

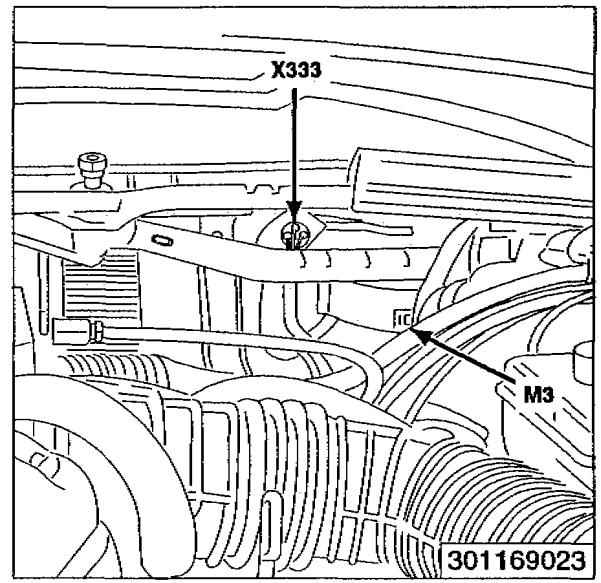


FIG. 3 - Rear of engine compartment left

M3 WIPER MOTOR
X333 CONNECTOR (4-PINS, BLACK)

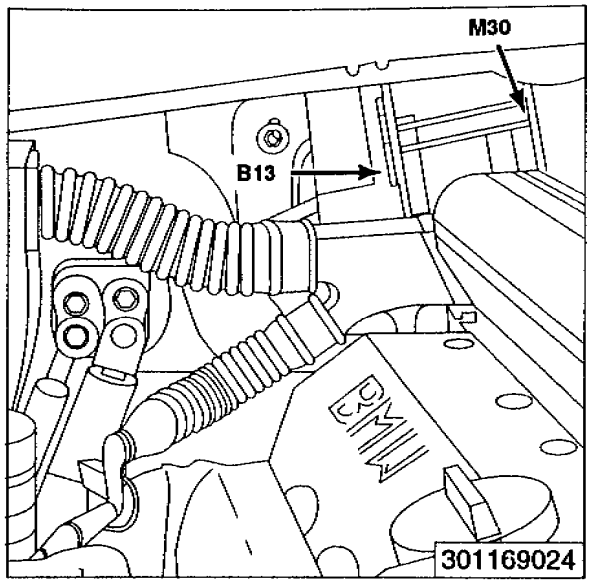


FIG. 1 - Rear of engine compartment behind RH fresh air cowl

B13 OUTSIDE TEMPERATURE SENSOR
M30 BLOWER MOTOR

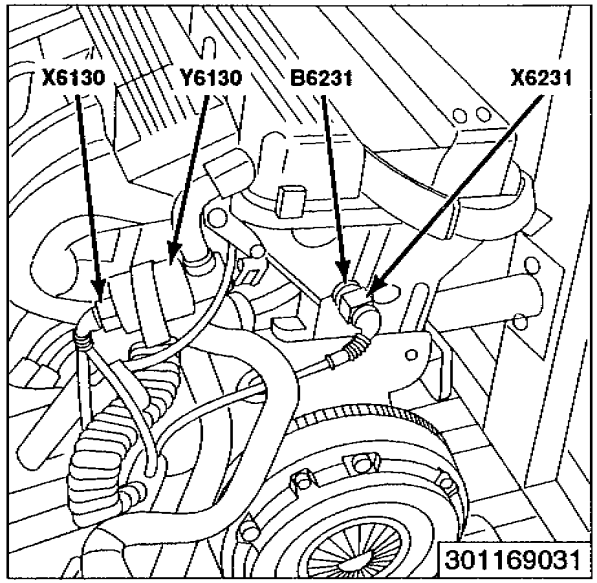


FIG. 2 - Rear of engine (318is)

B6231 OIL PRESSURE SWITCH
X6130 CONNECTOR (2-PINS, BLACK)
X6231 CONNECTOR (2-PINS, BLACK)
Y6130 IDLE SPEED CONTROL VALVE

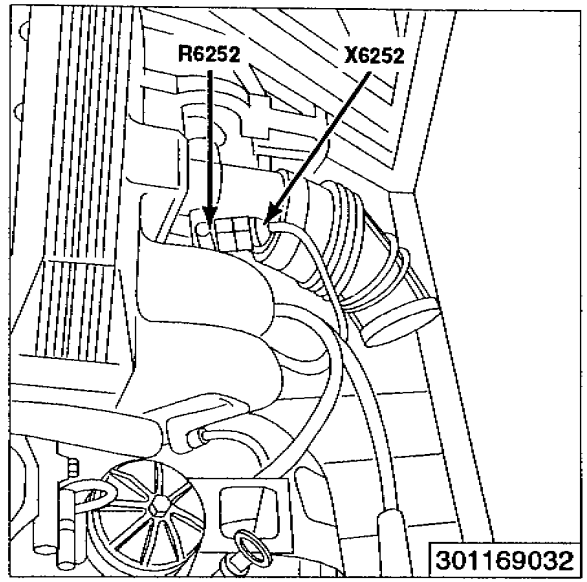


FIG. 3 - LH side of engine (318is)

R6252 THROTTLE POSITION SENSOR
X6252 CONNECTOR (3-PINS, BLACK)

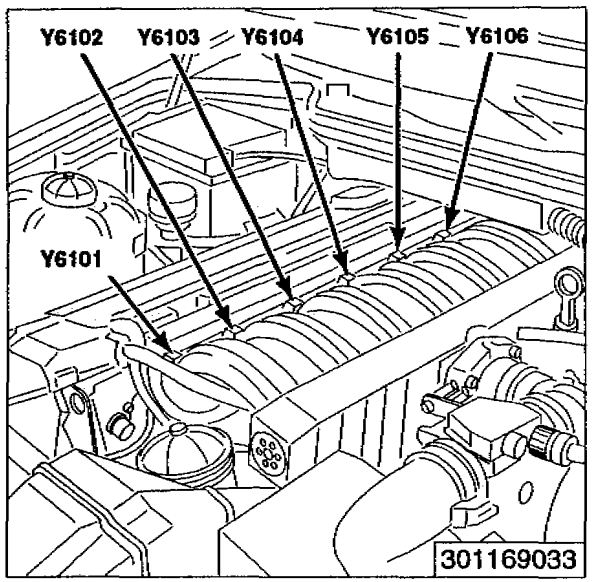


FIG. 1 - *Top center of engine (325i)*

Y6101	CYL. 1 FUEL INJECTION VALVE
Y6102	CYL. 2 FUEL INJECTION VALVE
Y6103	CYL. 3 FUEL INJECTION VALVE
Y6104	CYL. 4 FUEL INJECTION VALVE
Y6105	CYL. 5 FUEL INJECTION VALVE
Y6106	CYL. 6 FUEL INJECTION VALVE

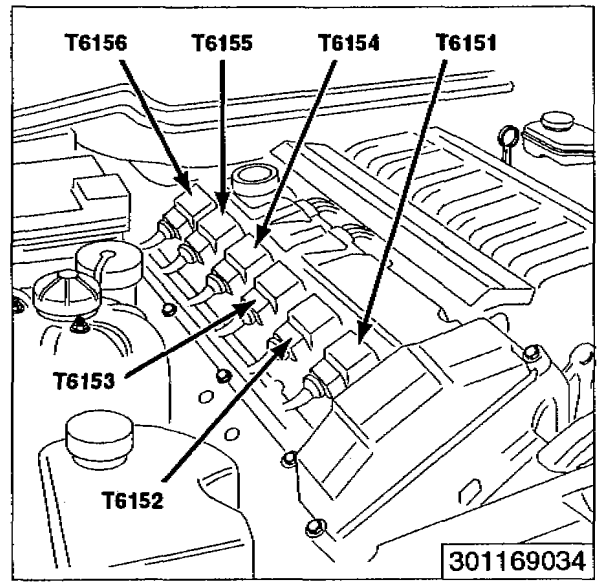


FIG. 2 - *Top RH side of engine (325i)*

T6151	CYL. 1 IGNITION COIL
T6152	CYL. 2 IGNITION COIL
T6153	CYL. 3 IGNITION COIL
T6154	CYL. 4 IGNITION COIL
T6155	CYL. 5 IGNITION COIL
T6156	CYL. 6 IGNITION COIL

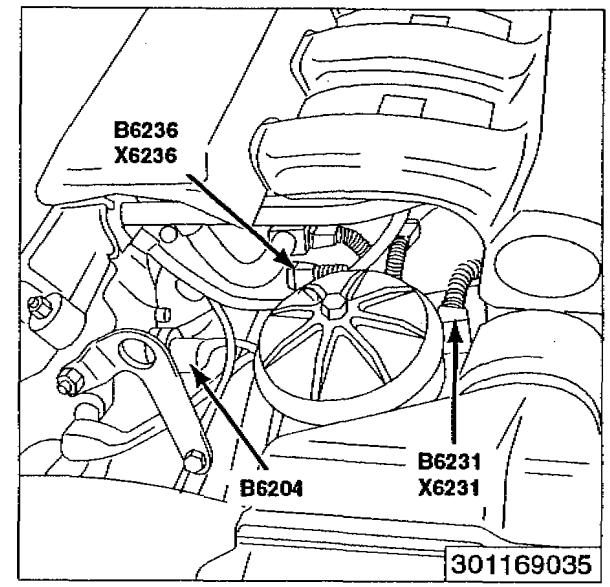


FIG. 3 - RH front of engine (325i)

B6231	OIL PRESSURE SWITCH
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
B6236	ENGINE COOLANT TEMPERATURE SENSOR
X6231	CONNECTOR (2-PINS, BLACK)
X6236	CONNECTOR (2-PINS, BLACK)

COMPONENT LOCATION VIEWS

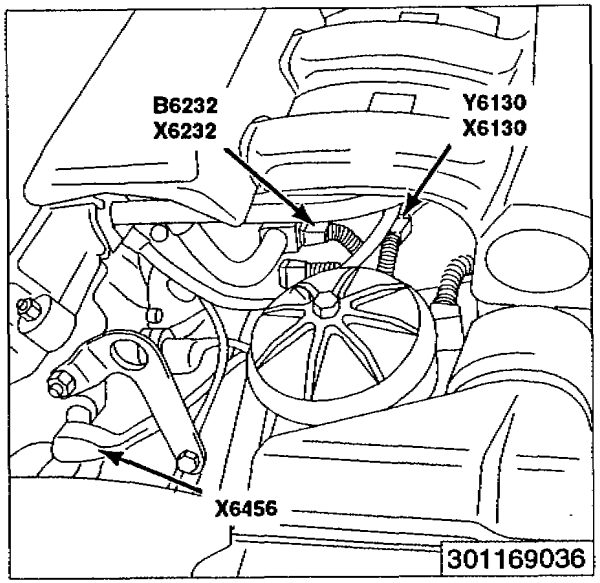


FIG. 1 - RH front of engine (325i)

B6232	ENGINE COOLANT TEMPERATURE SENSOR
X6130	CONNECTOR (2-PINS, BLACK)
X6232	CONNECTOR (2-PINS, BLACK)
X6456	GROUND
Y6130	IDLE SPEED CONTROL VALVE

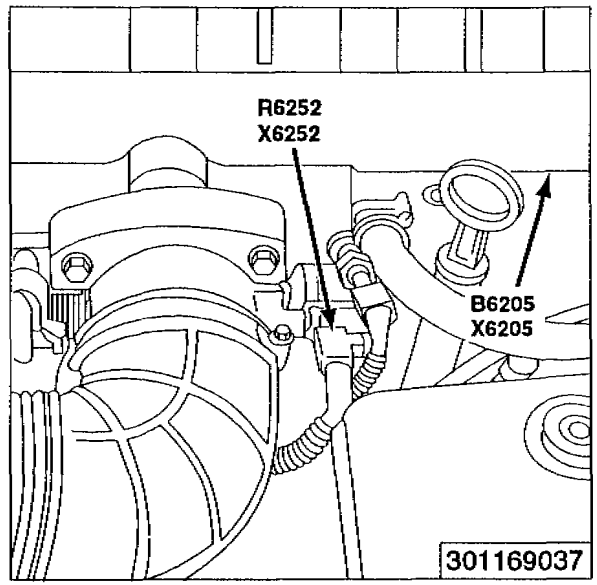


FIG. 2 - LH side of engine (325i)

B6205	INTAKE AIR TEMPERATURE SENSOR
R6252	THROTTLE POSITION SENSOR
X6205	CONNECTOR (2-PINS, BLACK)
X6252	CONNECTOR (3-PINS, BLACK)

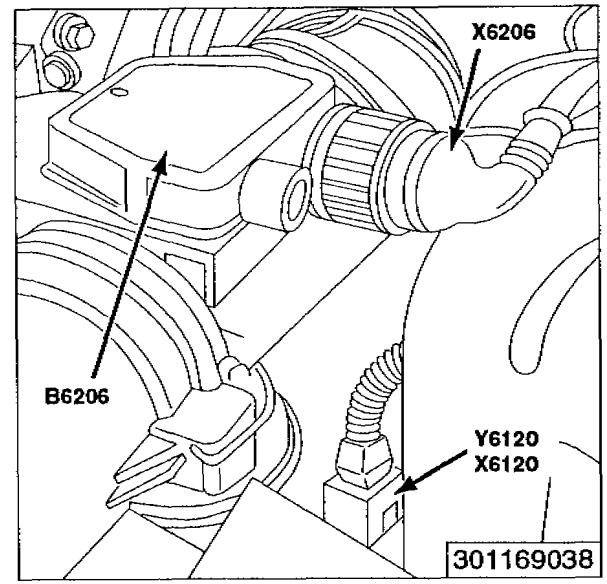


FIG. 3 - LH side of engine (325i)

B6206	MASS AIR FLOW SENSOR
X6120	CONNECTOR (2-PINS, BLACK)
X6206	CONNECTOR (7-PINS, BLACK)
Y6120	EVAPORATIVE EMISSION VALVE

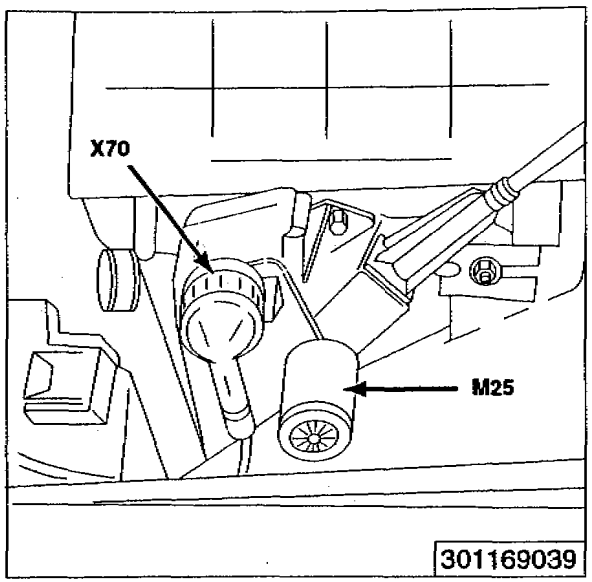


FIG. 1 - Front LH side of engine compartment

M25 CRUISE CONTROL ACTUATOR (TEMPOMAT)
X70 CONNECTOR (8-PINS, BLACK)

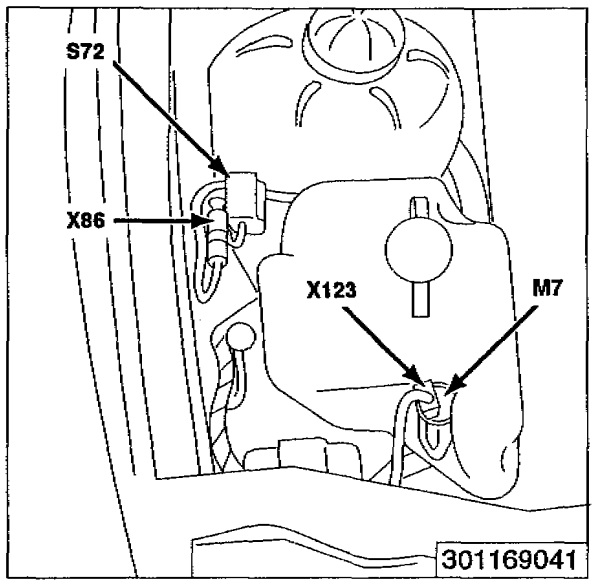


FIG. 2 - Front RH side of engine compartment washer fluid reservoir with intensive wash

M7 HEADLIGHT/FOG LIGHT WASHER PUMP
S72 RIGHT FRONT IMPACT SENSOR
X86 CONNECTOR (3-PINS, ORANGE)
X123 CONNECTOR (2-PINS, GRAY)

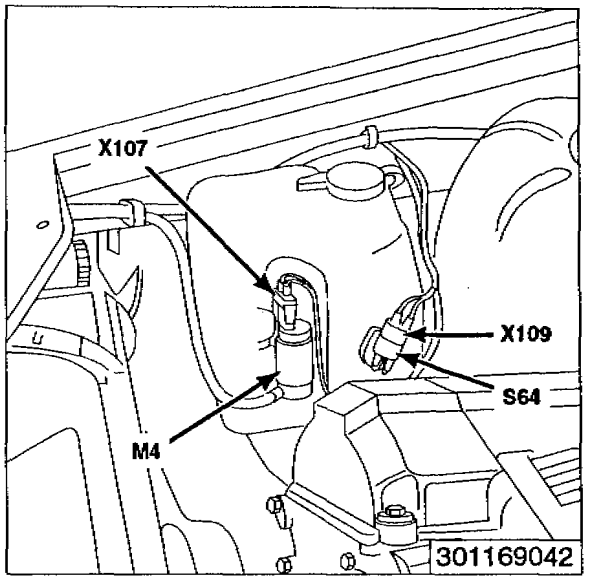


FIG. 3 - Front RH side of engine compartment on washer fluid reservoir

M4 WASHER PUMP
S64 WASHER FLUID LEVEL SWITCH
X107 CONNECTOR (2-PINS, GRAY)
X109 CONNECTOR (2-PINS, GRAY)

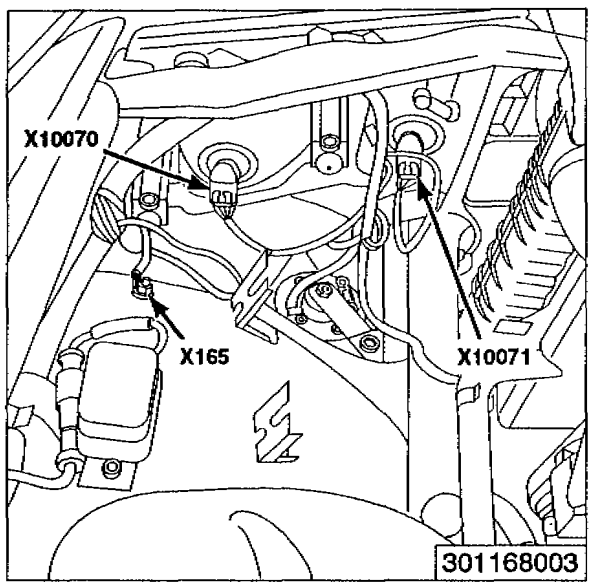


FIG. 1 - Front LH side of engine compartment

X165	GROUND
X10070	CONNECTOR (2-PINS, GRAY)
X10071	CONNECTOR (2-PINS, BLACK)

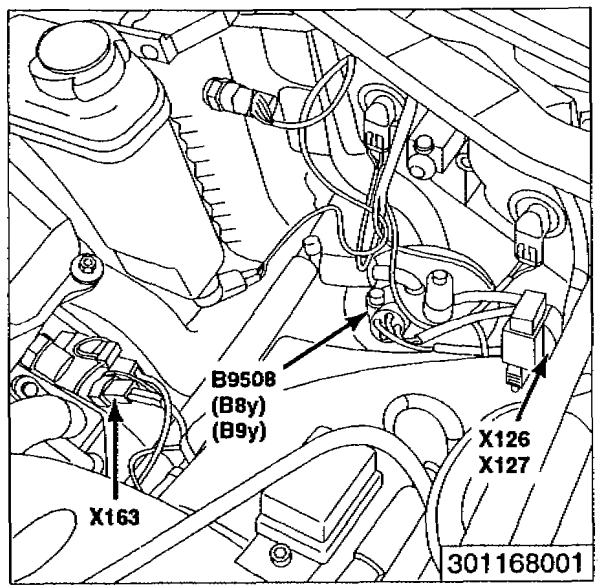


FIG. 2 - Front RH side of engine compartment

B8y	PRESSURE SWITCH
B9y	PRESSURE SWITCH
B9508	PRESSURE SWITCH
X126	CONNECTOR (2-PINS, BLACK)
X127	CONNECTOR (2-PINS, BLACK)
X163	CONNECTOR (3-PINS, BLACK)

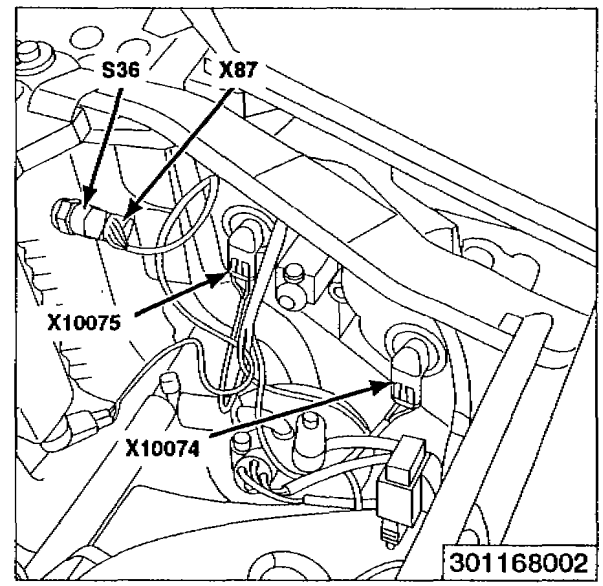


FIG. 3 - Front RH side of engine compartment

S36	TEMPERATURE SWITCH
X87	CONNECTOR (3-PINS, BLACK)
X10074	CONNECTOR (2-PINS, BLACK)
X10075	CONNECTOR (2-PINS, GRAY)

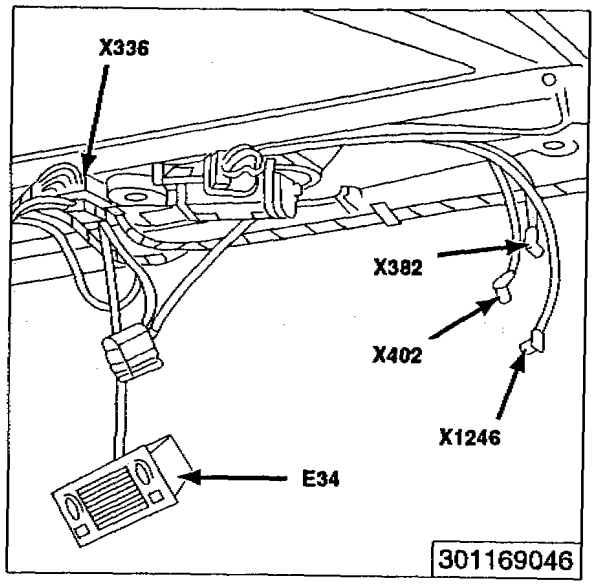


FIG. 1 - In roof panel

E34	FRONT DOME LIGHT/MAP READING ASSEMBLY
X382	CONNECTOR (3-PINS, BLACK)
X336	CONNECTOR (6-PINS, WHITE)
X402	CONNECTOR (1-PINS, BLACK)
X1246	CONNECTOR (1-PINS, BLACK)

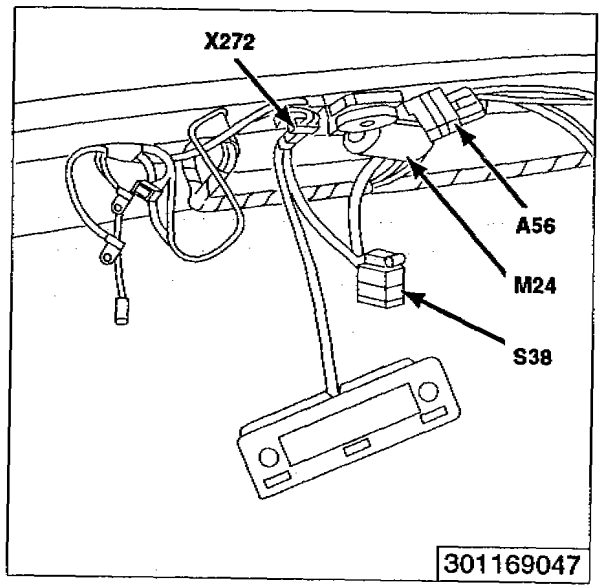


FIG. 2 - In roof panel

A56	SUNROOF CONTROL ASSEMBLY
M24	SUNROOF MOTOR
S38	SUNROOF SWITCH
X272	CONNECTOR (2-PINS, BLACK)

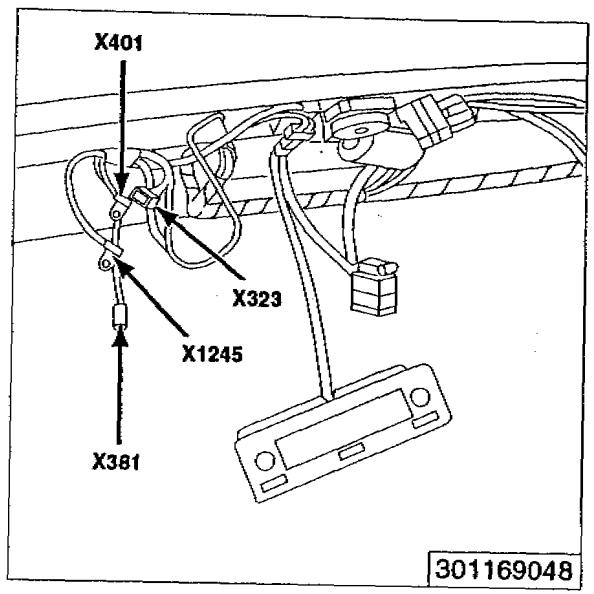


FIG. 3 - In roof panel

X323	CONNECTOR (6-PINS, WHITE)
X381	CONNECTOR (3-PINS, BLACK)
X401	CONNECTOR (1-PINS, BLACK)
X1245	CONNECTOR (1-PINS, BLACK)

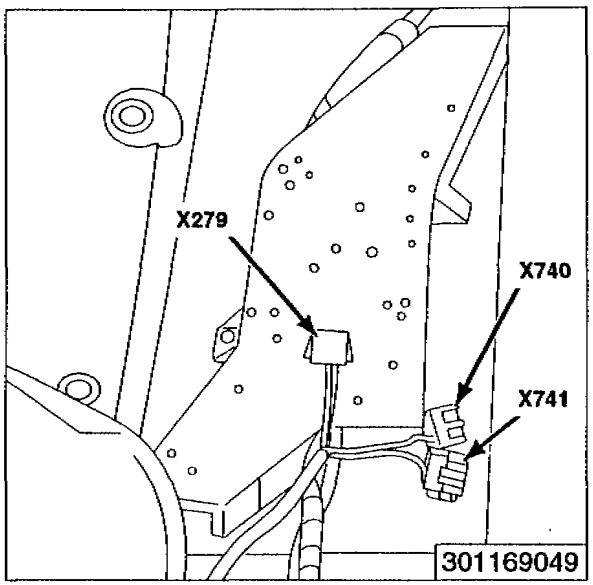


FIG. 1 - Under RH front seat

X279 CONNECTOR (4-PINS, WHITE)
X740 CONNECTOR (4-PINS, BLACK)
X741 CONNECTOR (4-PINS, BLACK)

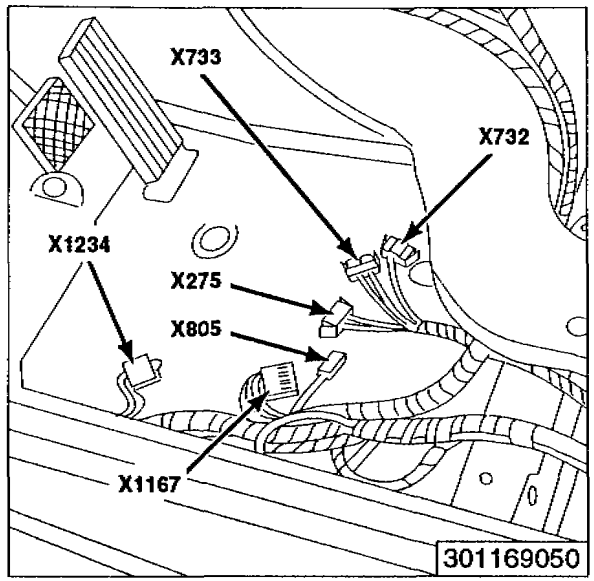


FIG. 2 - Under LH front seat under carpet

X275 CONNECTOR (4-PINS, WHITE)
X732 CONNECTOR (4-PINS, BLACK)
X733 CONNECTOR (4-PINS, BLACK)
X805 REMOVABLE SPLICE
X1167 REMOVABLE SPLICE
X1234 REMOVABLE SPLICE

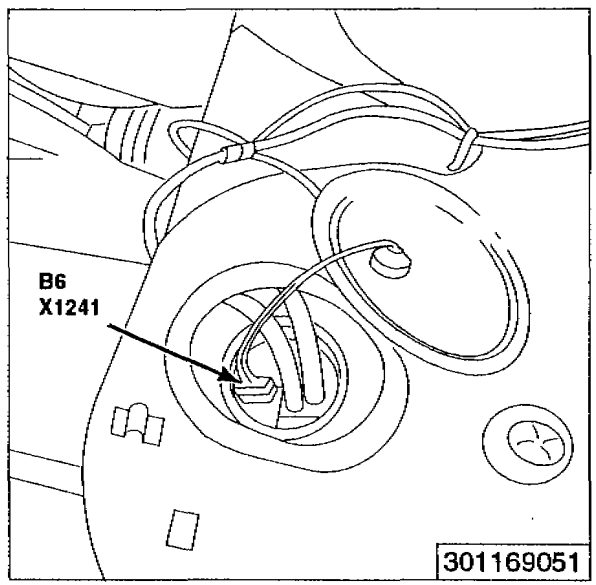


FIG. 3 - Below LH side of rear seat

B6 FUEL LEVEL SENSOR
X1241 CONNECTOR (2-PINS, WHITE)

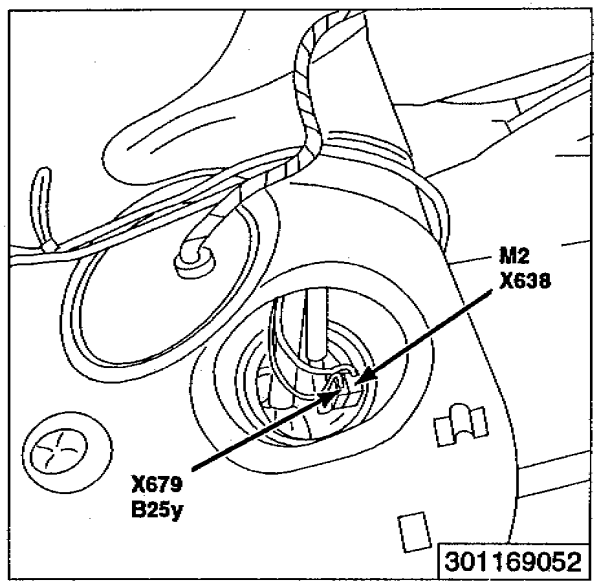


FIG. 1 - Below RH side of rear seat

B25y	FUEL TANK SENSOR II
M2	FUEL PUMP
X638	CONNECTOR (2-PINS, BLACK)
X679	CONNECTOR (2-PINS, WHITE)

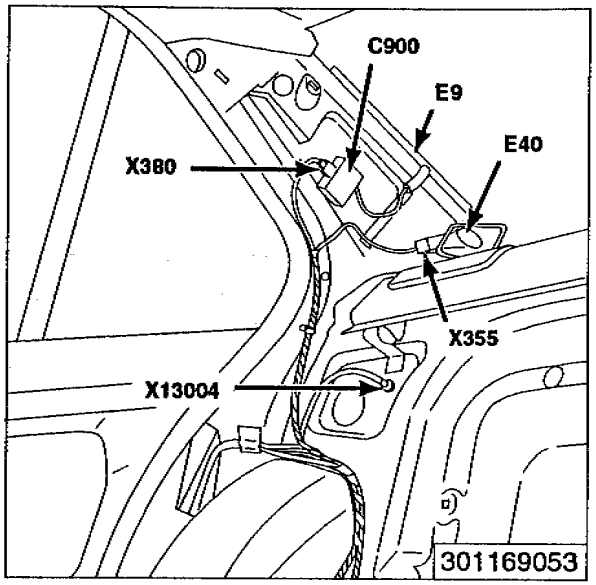


FIG. 2 - In lower RH C-pillar

C900	SUPPRESSION FILTER
E9	REAR DEFOGGER I
E40	RIGHT REAR INTERIOR LIGHT
X355	CONNECTOR (2-PINS, BLACK)
X380	CONNECTOR (1-PINS, NATURAL)
X13004	GROUND

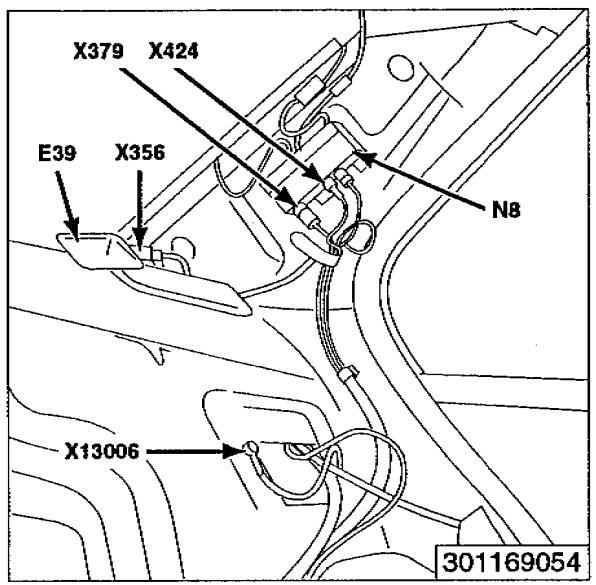


FIG. 3 - In lower LH C-pillar

E39	LEFT REAR INTERIOR LIGHT
N8	ANTENNA AMPLIFIER AM/FM
X356	CONNECTOR (2-PINS, BLACK)
X379	CONNECTOR (1-PINS, NATURAL)
X424	CONNECTOR (1-PINS, BROWN)
X13006	GROUND

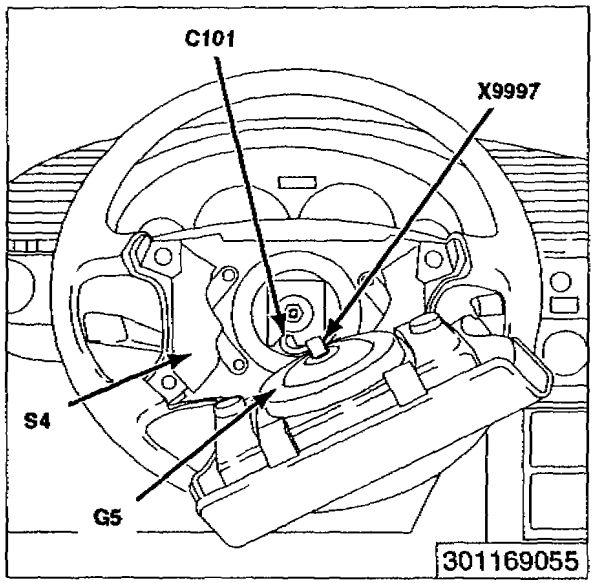


FIG 1 - Behind steering wheel (Airbag removed)

C101	CONTACT RING
G5	DRIVER'S AIR BAG GENERATOR
S4	HORN SWITCH
X9997	CONNECTOR (2-PINS, BLACK)

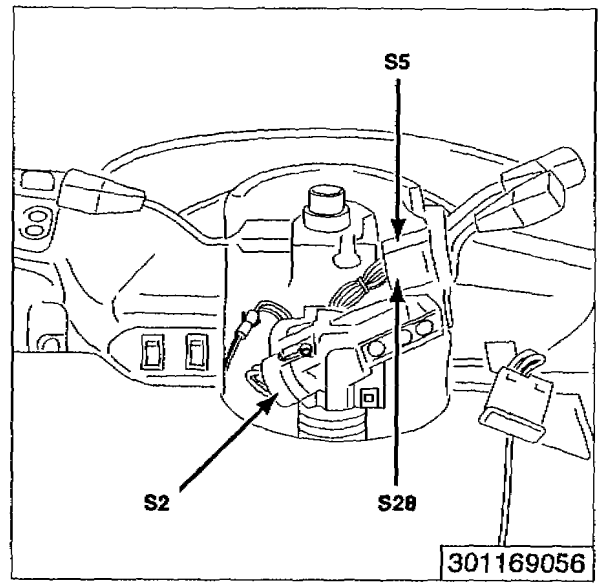


FIG 2 - Top of steering column (steering wheel removed)

S2	IGNITION SWITCH
S5	WIPER/WASHER SWITCH
S28	CRUISE CONTROL SWITCH

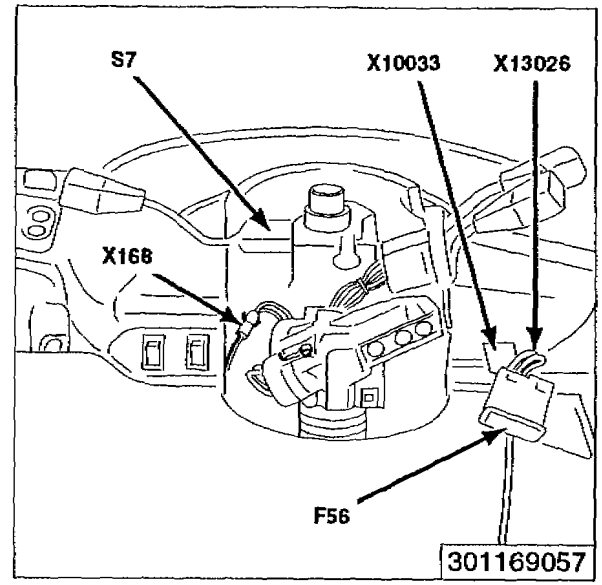


FIG 3 - Top of steering column (steering wheel removed)

F56	AUTOMATIC CUT-OUT
S7	COMBINATION SWITCH
X168	CONNECTOR (1-PINS, BLACK)
X10033	CONNECTOR (1-PINS, BLACK)
X13026	CONNECTOR (1-PINS, BLACK)

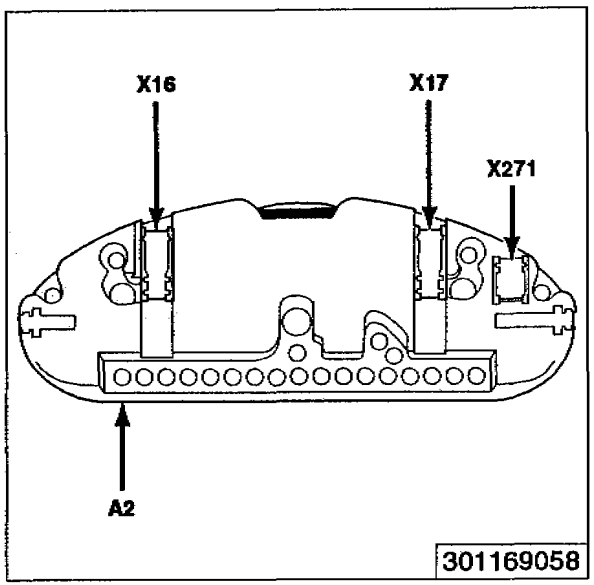


FIG. 1 - Rear of A2 Instrument cluster

A2	INSTRUMENT CLUSTER
X16	CONNECTOR (26-PINS, WHITE)
X17	CONNECTOR (26-PINS, BLUE)
X271	CONNECTOR (12-PINS, BLACK)

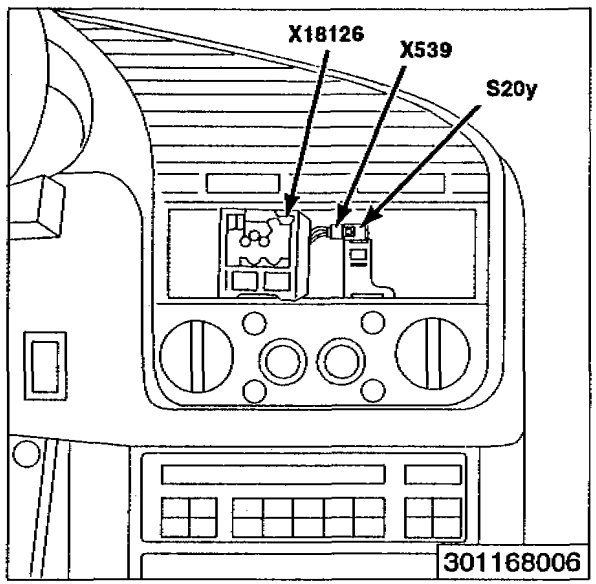


FIG. 2 - Center console behind radio (radio removed)

S20y	RADIO MICROSWITCH
X539	CONNECTOR (2-PINS, BLACK)
X18126	CONNECTOR (17-PINS, BLACK)

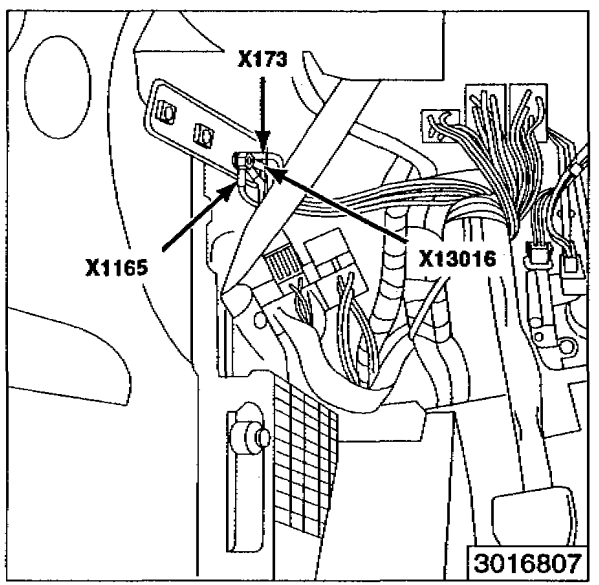


FIG. 3 - Below LH side of dash

X173	GROUND
X1165	GROUND
X13016	GROUND

COMPONENT LOCATION VIEWS

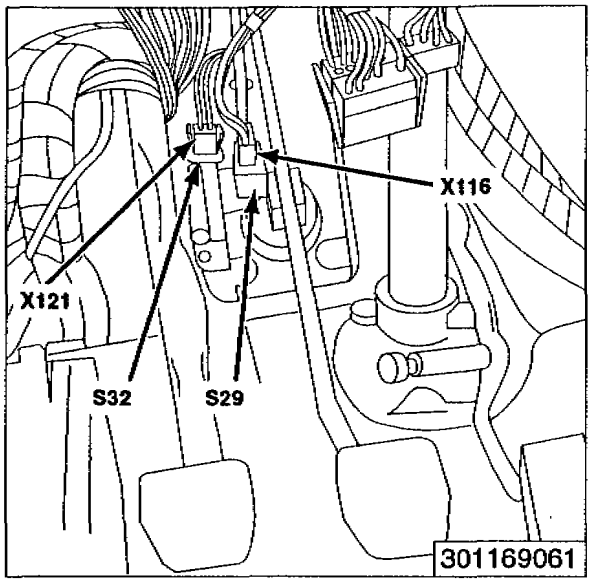


FIG. 1 - Footwell, driver's side

S29	BRAKE LIGHT SWITCH
S32	CLUTCH SWITCH
X116	CONNECTOR (2-PINS, BLACK)
X121	CONNECTOR (2-PINS, BLACK)

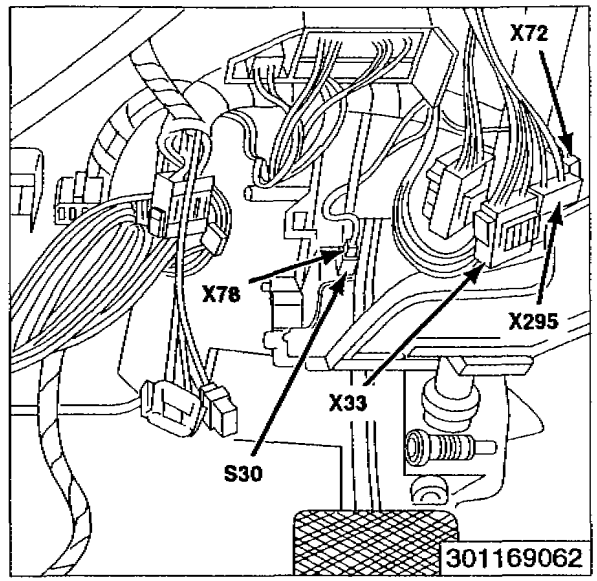


FIG. 2 - Footwell, driver's side

S30	BRAKE LIGHT SWITCH
X33	CONNECTOR (12-PINS, BLACK)
X72	CONNECTOR (8-PINS, WHITE)
X78	CONNECTOR (4-PINS, BLACK)
X295	CONNECTOR (8-PINS, BLACK)

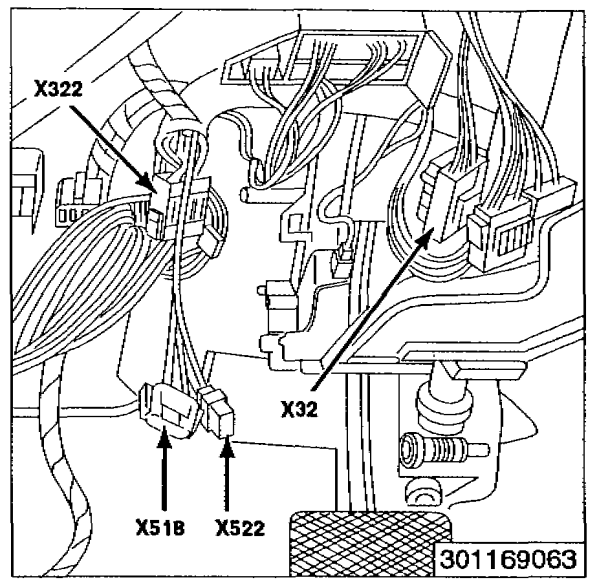


FIG. 3 - Footwell, driver's side

X32	CONNECTOR (12-PINS, WHITE)
X322	CONNECTOR (6-PINS, BLACK)
X518	CONNECTOR (4-PINS, BLACK)
X522	CONNECTOR (3-PINS, WHITE)

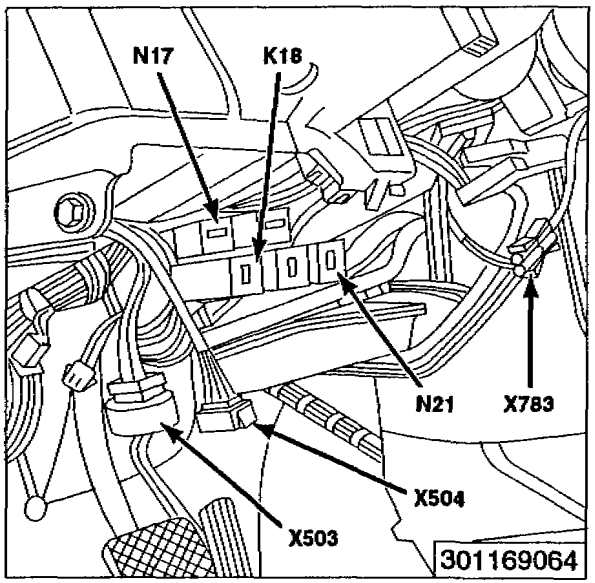


FIG 1 - Below LH side of dash

N17	CRASH CONTROL MODULE
N21	TWIN RELAY MODULE
K18	UNLOADER RELAY TERMINAL R
X503	CONNECTOR (12-PINS, WHITE)
X504	CONNECTOR (4-PINS, WHITE)
X783	CONNECTOR (2-PINS, ORANGE)

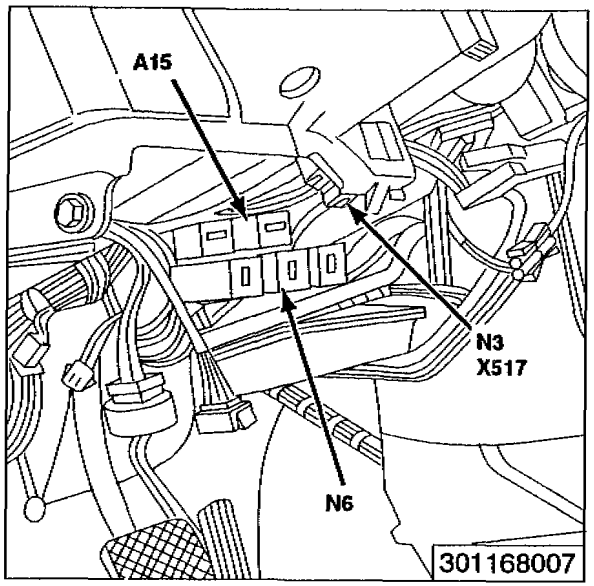


FIG 2 - Below LH side of dash

A15	PARK HEATING/VENTILATION RELAY BOX
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)
N3	DIMMER
X517	CONNECTOR (4-PINS, BLACK)

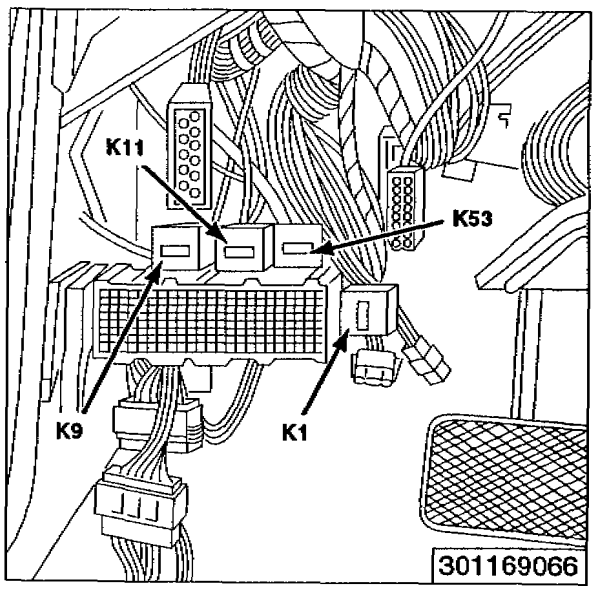


FIG 3 - Below LH side of dash

K1	STARTER RELAY
K9	UNLOADER RELAY, TERMINAL 15
K11	WIPER RELAY
K53	WIPER MOTOR RELAY

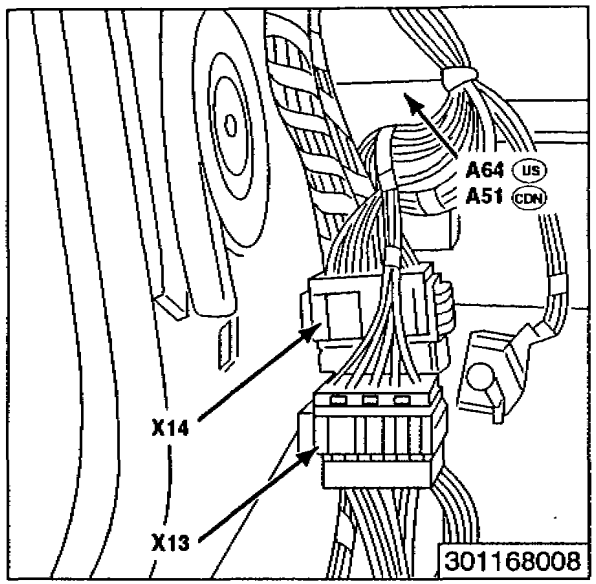


FIG. 1 - Footwell, driver's side

- A51 WIPER/WASHER MODULE
- A64 WIPER/WASHER MODULE (LOW II)
- X13 CONNECTOR (30-PINS, BLACK)
- X14 CONNECTOR (30-PINS, WHITE)

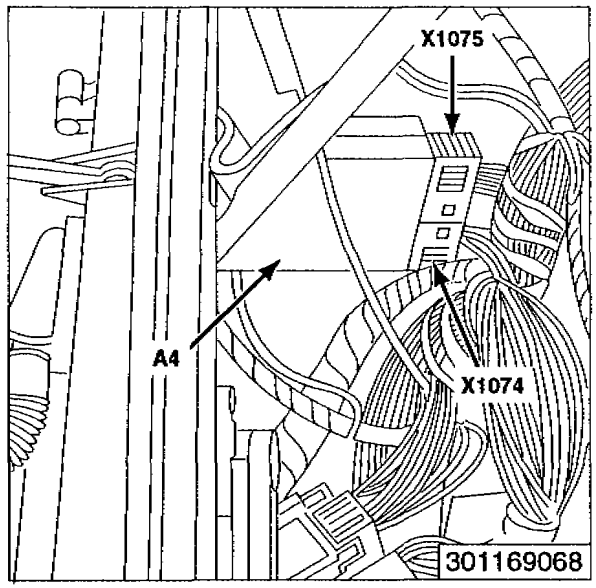


FIG. 2 - Below LH side of dash

- A4 CHECK CONTROL MODULE
- X1074 CONNECTOR (15-PINS, WHITE)
- X1075 CONNECTOR (15-PINS, BLACK)

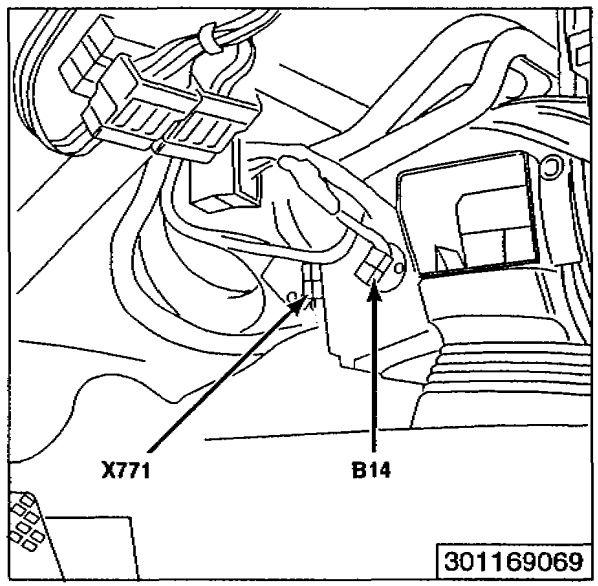


FIG. 3 - LH side of IHKR Plenum

- B14 EVAPORATOR TEMPERATURE SENSOR
- X771 CONNECTOR (2-PINS, BLACK)

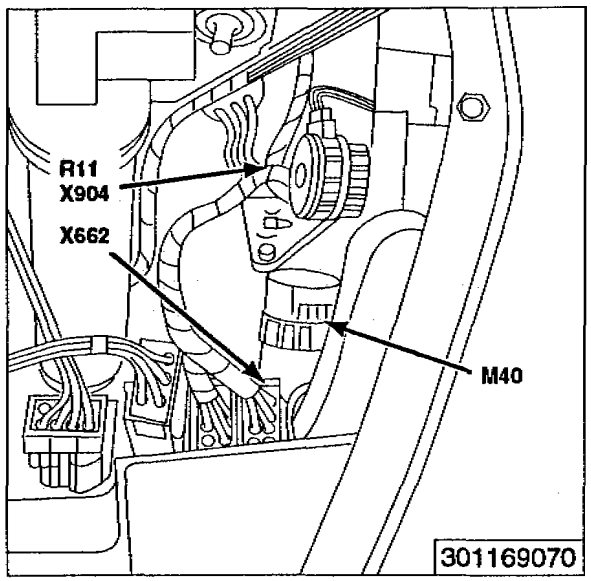


FIG. 1 - Behind center of dashboard LH side of IHKR Plenum

M40	RECIRCULATION FLAP MOTOR
R11	BLOWER RESISTORS
X904	CONNECTOR (4-PINS, BLACK)
X662	CONNECTOR (6-PINS, GRAY)

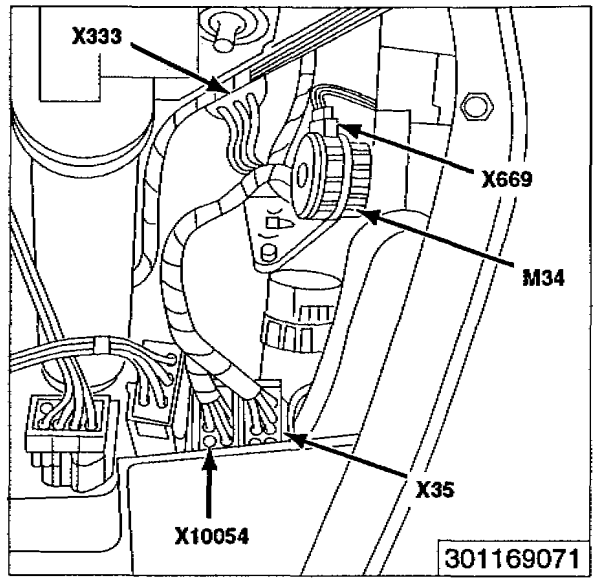


FIG. 2 - Behind center of dashboard LH side of IHKR Plenum

M34	DASH VENT MIXING FLAP MOTOR
X35	CONNECTOR (12-PINS, WHITE)
X333	CONNECTOR (4-PINS, BLACK)
X669	CONNECTOR (6-PINS, GRAY)
X10054	CONNECTOR (12-PINS, BLACK)

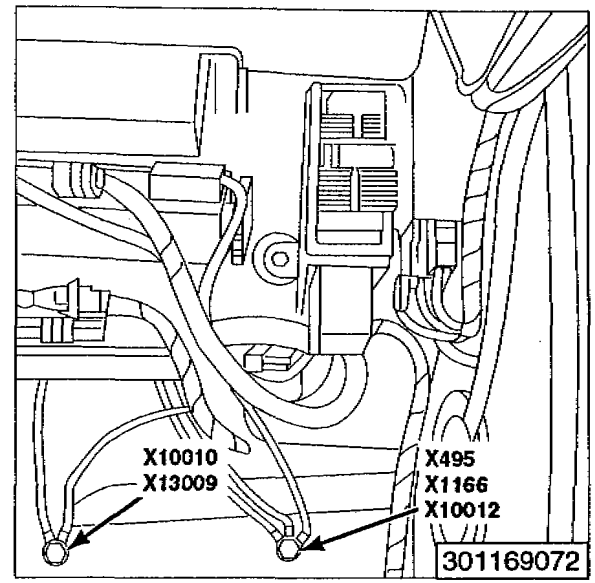


FIG. 3 - Below RH side of dash

X495	GROUND
X1166	GROUND
X10010	GROUND
X10012	GROUND
X13009	GROUND

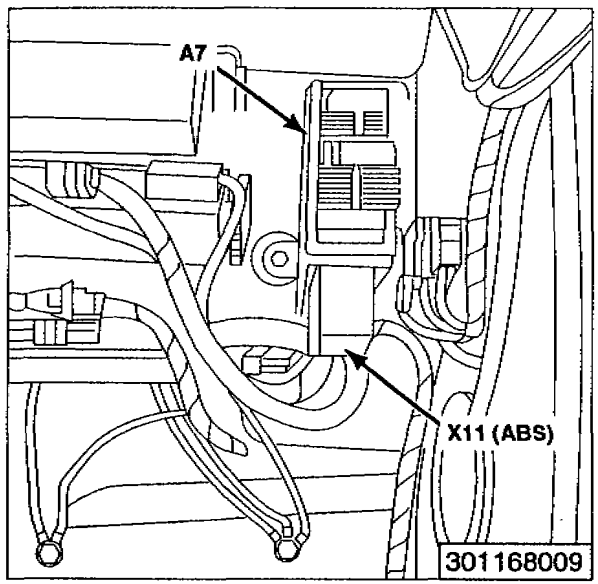


FIG. 1 - Behind glove box

A7 SLIP CONTROL MODULE (ABS)
X11 CONNECTOR (55-PINS, BLACK)

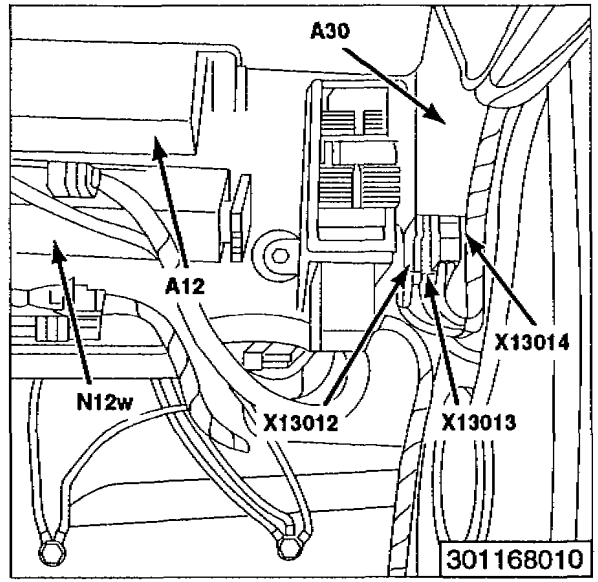


FIG. 2 - Below RH side of dash

A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
A30 CENTRAL LOCKING MODULE
N12w ANTI-THEFT CONTROL MODULE (ALPINE)
X13012 CONNECTOR (26-PINS, WHITE)
X13013 CONNECTOR (5-PINS, BLACK)
X13014 CONNECTOR (4-PINS, BLACK)

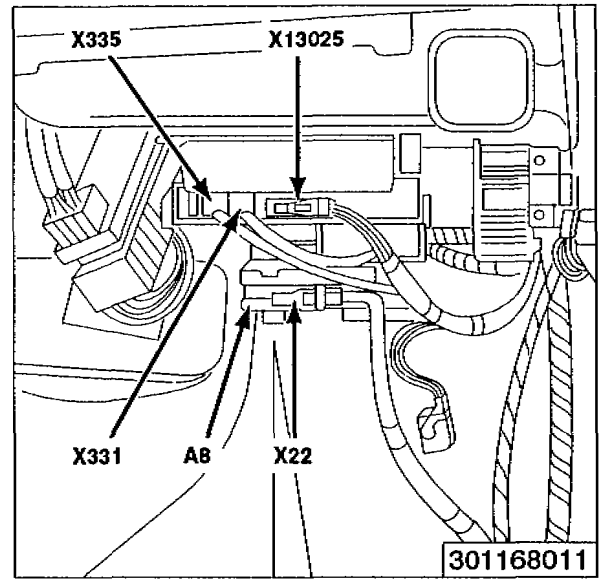


FIG. 3 - Below RH side of dash

A8 CRUISE CONTROL MODULE (TEMPOMAT)
X22 CONNECTOR (26-PINS, BLUE)
X13025 CONNECTOR (26-PINS, BLACK)
X331 CONNECTOR (5-PINS, BLACK)
X335 CONNECTOR (4-PINS, BLACK)

COMPONENT LOCATION VIEWS

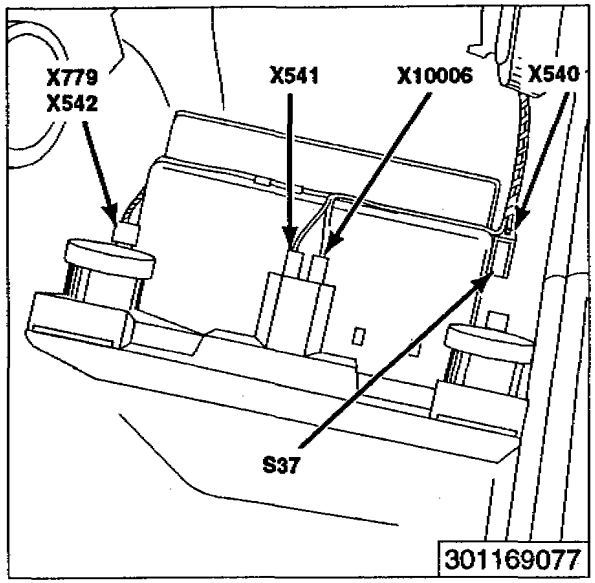


FIG. 1 - Behind glove box

S37	GLOVE BOX LIGHT SWITCH
X540	CONNECTOR (2-PINS, BLACK)
X541	CONNECTOR (1-PINS, WHITE)
X542	CONNECTOR (2-PINS, BLACK)
X779	CHARGING SOCKET
X10006	CONNECTOR (1-PINS, WHITE)

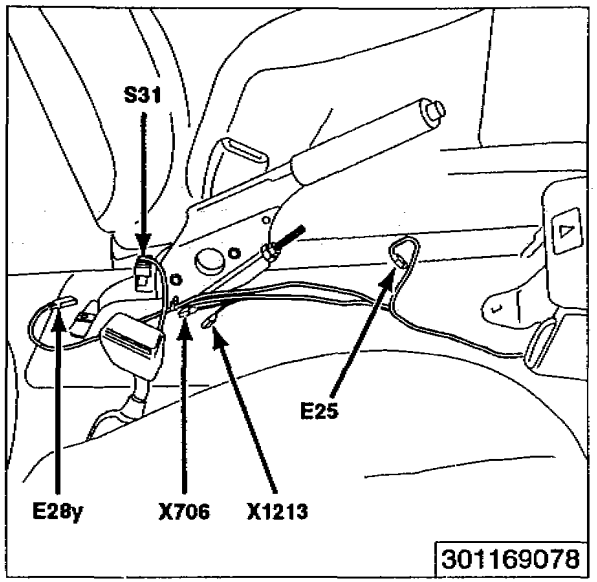


FIG. 2 - Center console

E25	FRONT ASHTRAY LIGHT
E28y	REAR ASHTRAY LIGHT
S31	PARK BRAKE SWITCH
X706	CONNECTOR (2-PINS, BLACK)
X1213	CONNECTOR (2-PINS, BLACK)

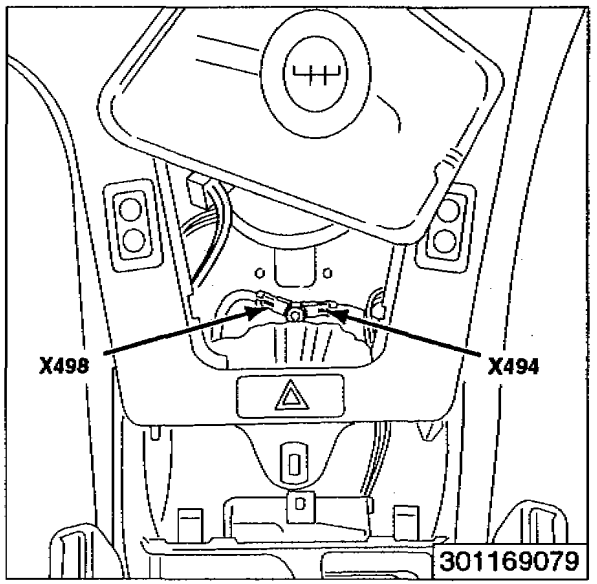


FIG. 3 - Center console

X494	GROUND
X498	GROUND

COMPONENT LOCATION VIEWS

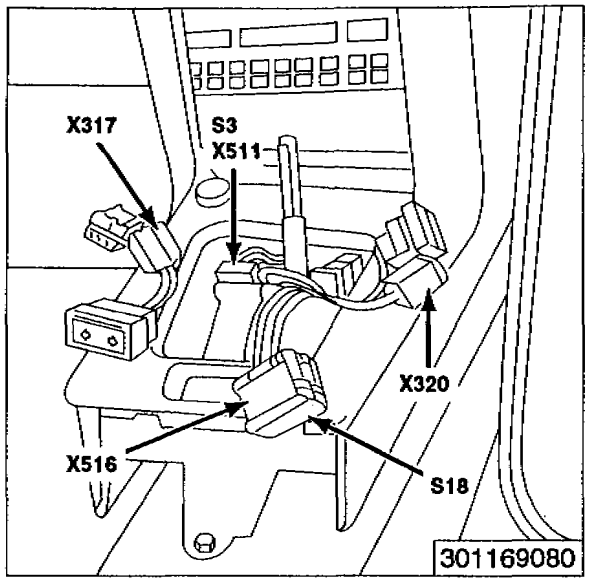


FIG. 1 - Center console near gearshift lever

S3	AUTOMATIC TRANSMISSION RANGE SWITCH
S18	HAZARD SWITCH
X317	CONNECTOR (6-PINS, WHITE)
X320	CONNECTOR (6-PINS, WHITE)
X511	CONNECTOR (8-PINS, BLACK)
X516	CONNECTOR (5-PINS, BLACK)

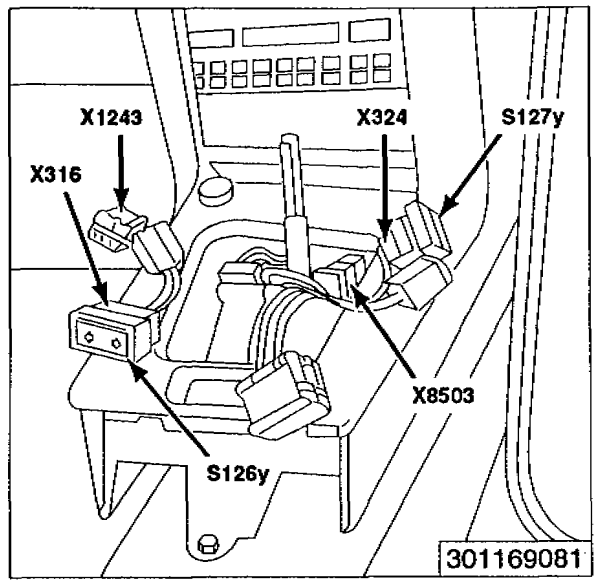


FIG. 2 - Center console near gearshift lever

S126y	DRIVER'S POWER WINDOW SWITCH
S127y	PASSENGER'S POWER WINDOW SWITCH
X316	CONNECTOR (6-PINS, WHITE)
X324	CONNECTOR (6-PINS, WHITE)
X1243	CONNECTOR (6-PINS, BLACK)
X8503	CONNECTOR (10-PINS, WHITE)

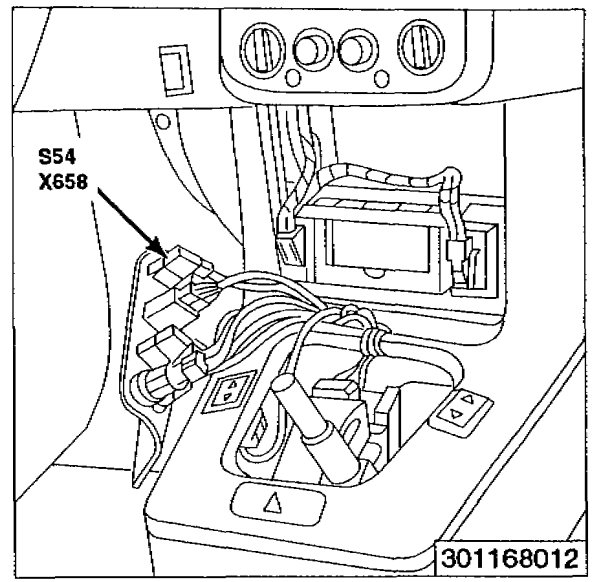


FIG. 3 - Center console near gearshift lever

S54	PASSENGER'S SEAT, SEAT HEATER SWITCH
X658	CONNECTOR (6-PINS, YELLOW)

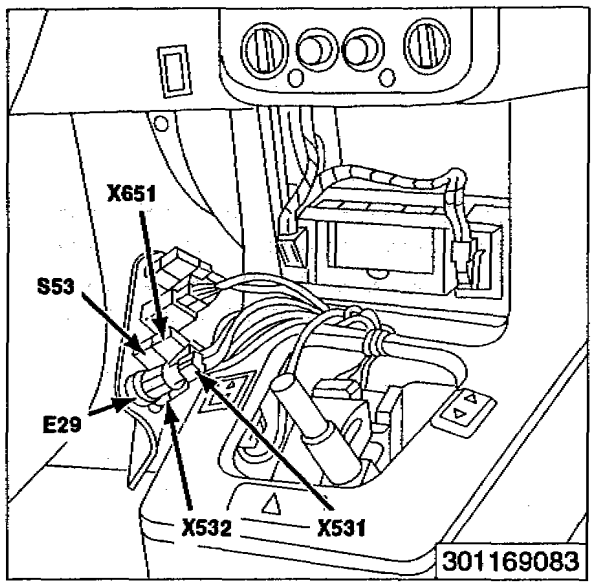


FIG. 1 - Center console near gearshift lever

E29	FRONT CIGAR LIGHTER LIGHT
S53	DRIVER'S SEAT, SEAT HEATER SWITCH
X531	CONNECTOR (1-PINS, BLACK)
X532	CONNECTOR (2-PINS, BLACK)
X651	CONNECTOR (6-PINS, YELLOW)

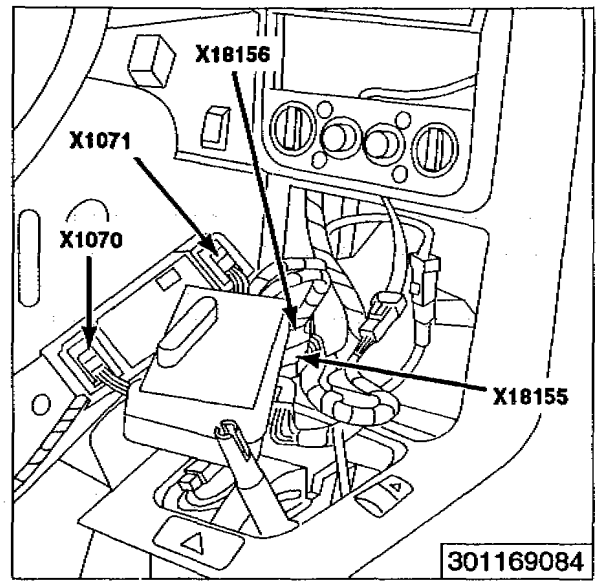


FIG. 2 - Center console on-board computer (removed)

X1070	CONNECTOR (18-PINS, BLACK)
X1071	CONNECTOR (18-PINS, WHITE)
X18155	CONNECTOR (26-PINS, WHITE)
X18156	CONNECTOR (26-PINS, BLACK)

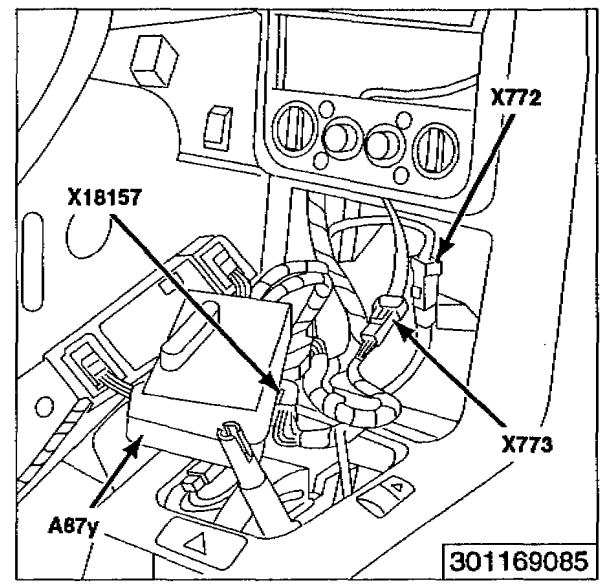


FIG. 3 - Center console on-board computer (removed)

A87y	INTEGRATED CLIMATE REGULATION CONTROL MODULE
X772	CONNECTOR (2-PINS, WHITE)
X773	CONNECTOR (2-PINS, WHITE)
X18157	CONNECTOR (26-PINS, BLUE)

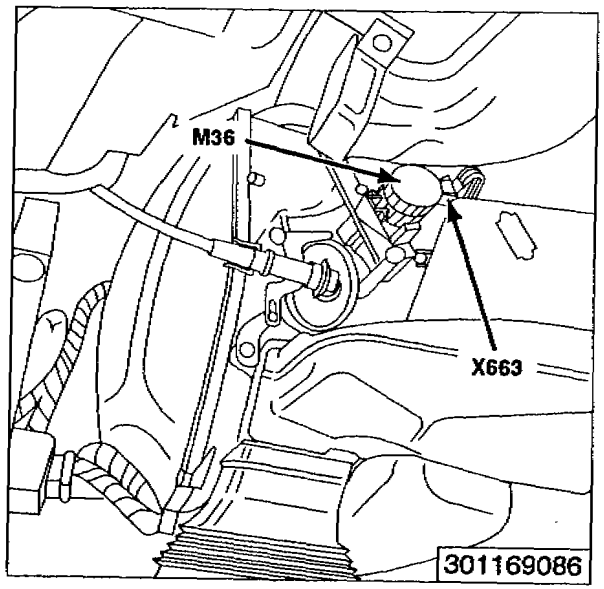


FIG. 1 - RH side of IHKR Plenum

M36 FRESH AIR FLAP MOTOR
X663 CONNECTOR (6-PINS, GRAY)

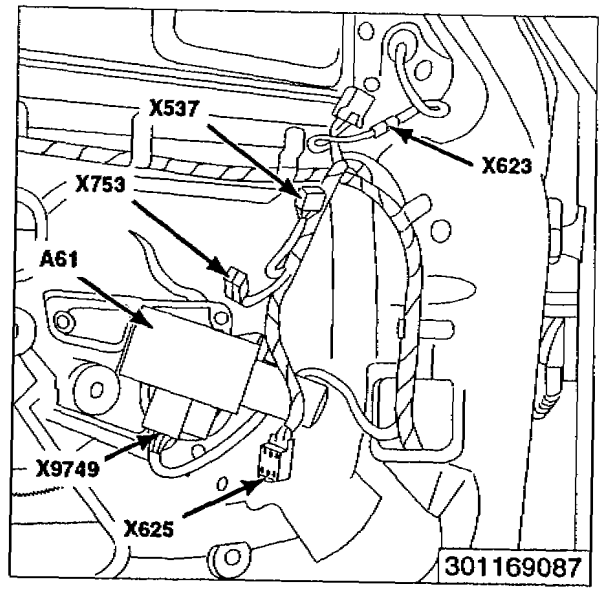


FIG. 2 - Driver's door under trim panel

A61 DRIVER'S SIDE POWER WINDOW MODULE
X537 CONNECTOR (2-PINS, BLACK)
X623 CONNECTOR (4-PINS, BLACK)
X625 CONNECTOR (6-PINS, WHITE)
X753 CONNECTOR (2-PINS, BLACK)
X9749 CONNECTOR (6-PINS, BLACK)

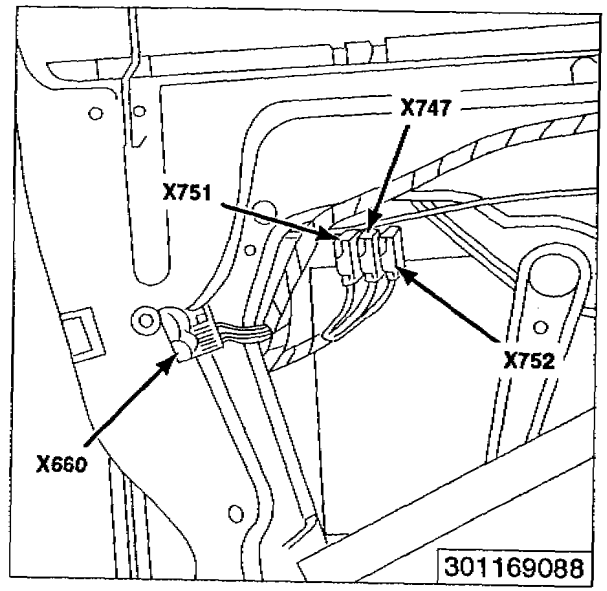


FIG. 3 - Driver's door under trim panel

X660 CONNECTOR (6-PINS, BLACK)
X747 CONNECTOR (2-PINS, YELLOW)
X751 CONNECTOR (2-PINS, WHITE)
X752 CONNECTOR (2-PINS, GRAY)

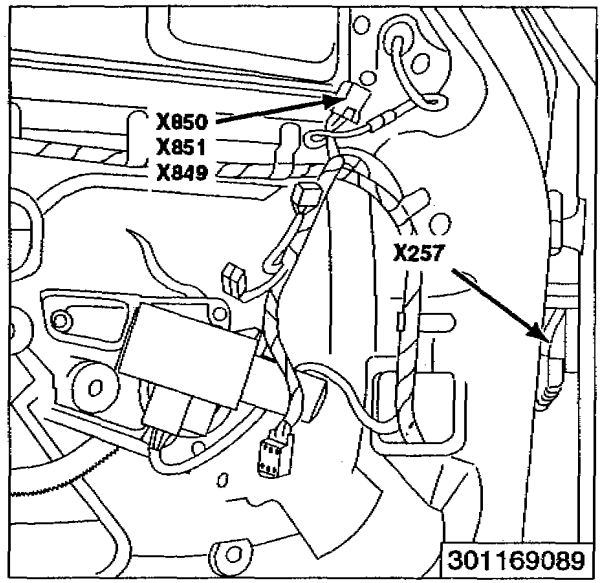


FIG. 1 - Driver's door under trim panel

X257 CONNECTOR (26-PINS, BLACK)
X849 REMOVABLE SPLICE
X850 REMOVABLE SPLICE
X851 REMOVABLE SPLICE

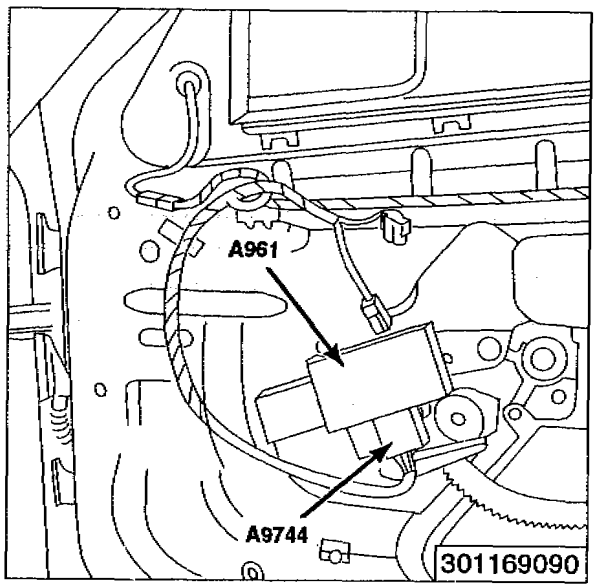


FIG. 2 - Passenger's door under trim panel

A961 PASSENGER'S SIDE POWER WINDOW MODULE
X9744 CONNECTOR (6-PINS, BLACK)

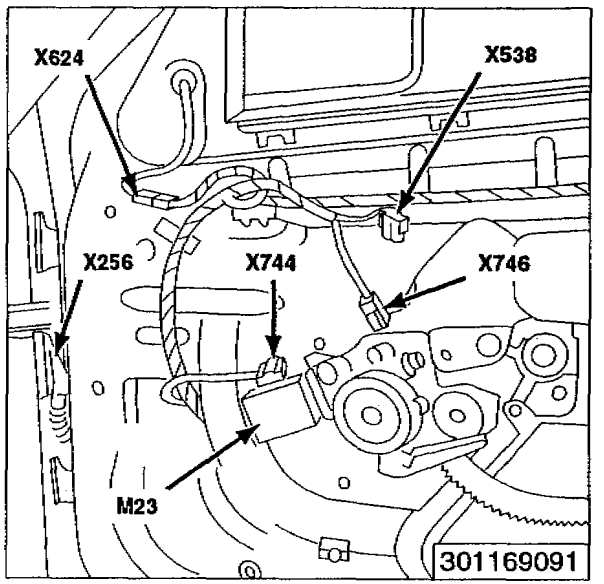


FIG. 3 - Passenger's door under trim panel

M23 PASSENGER'S WINDOW MOTOR
X256 CONNECTOR (26-PINS, BLACK)
X538 CONNECTOR (2-PINS, BLACK)
X624 CONNECTOR (4-PINS, BLACK)
X744 CONNECTOR (2-PINS, GRAY)
X746 CONNECTOR (2-PINS, BLACK)

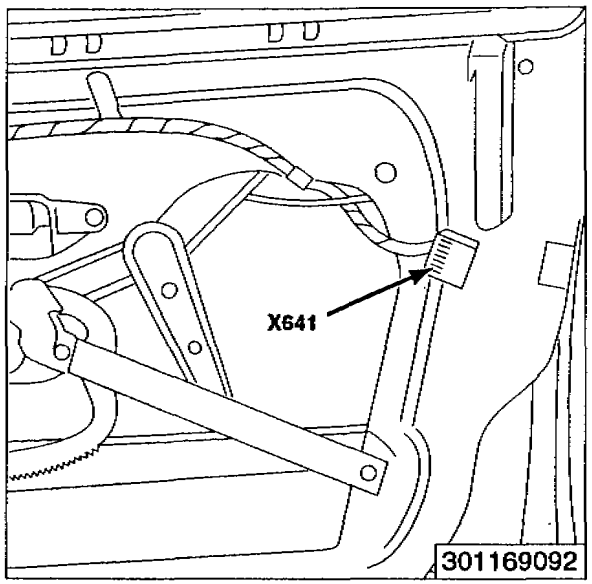


FIG. 1 - Passenger's door under trim panel

X641 CONNECTOR (6-PINS, BLACK)

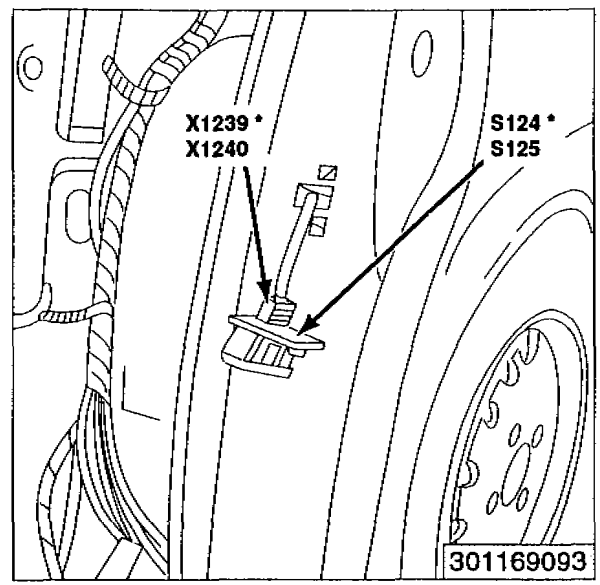


FIG. 2 - LH rear door jamb (*RH similar)

S124 RIGHT REAR DOOR CONTACT
S125 LEFT REAR DOOR CONTACT
X1239 CONNECTOR (2-PINS, WHITE)
X1240 CONNECTOR (2-PINS, BLACK)

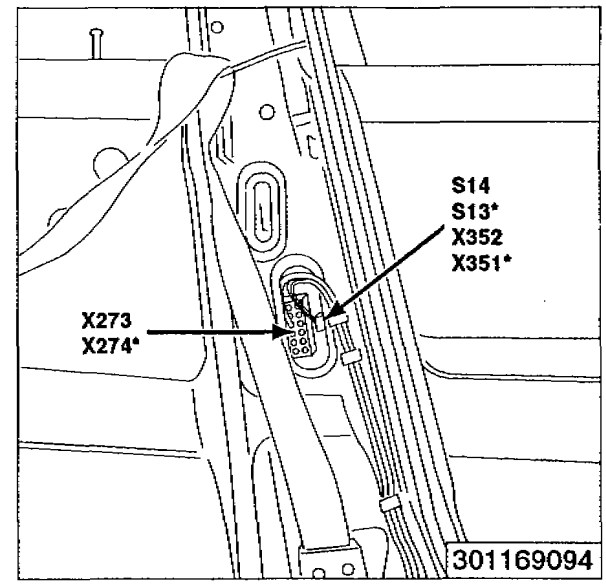


FIG. 3 - In lower LH B-pillar (*RH similar)

S13 PASSENGER'S DOOR JAMB SWITCH
S14 DRIVER'S DOOR JAMB SWITCH
X273 CONNECTOR (12-PINS, BLACK)
X274 CONNECTOR (12-PINS, BLACK)
X351 CONNECTOR (2-PINS, BLACK)
X352 CONNECTOR (2-PINS, BLACK)

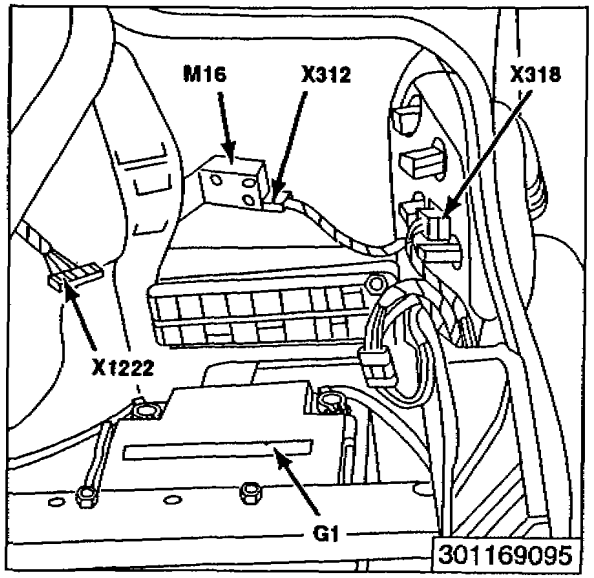


FIG 1 - In RH rear side of luggage compartment (325i)

G1	BATTERY
M16	GAS FILLER LOCK MOTOR
X312	CONNECTOR (2-PINS, BLACK)
X318	CONNECTOR (8-PINS, BLACK)
X1222	CONNECTOR (6-PINS, WHITE)

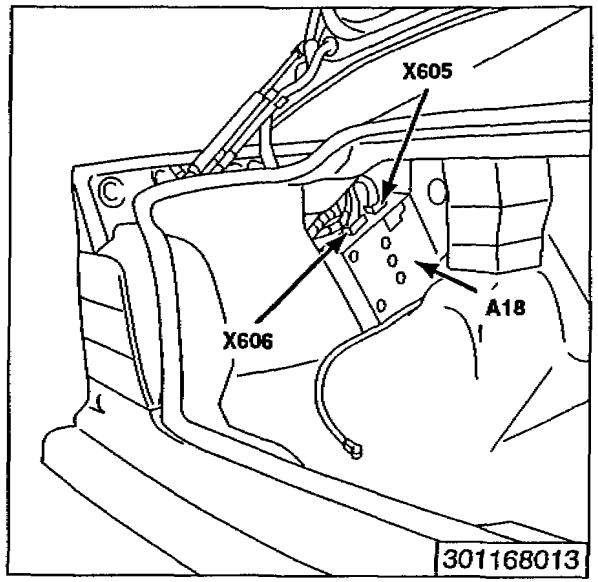


FIG 2 - In LH forward side of luggage compartment

A18	HIFI AMPLIFIER
X605	CONNECTOR (12-PINS, BLACK)
X606	CONNECTOR (12-PINS, WHITE)

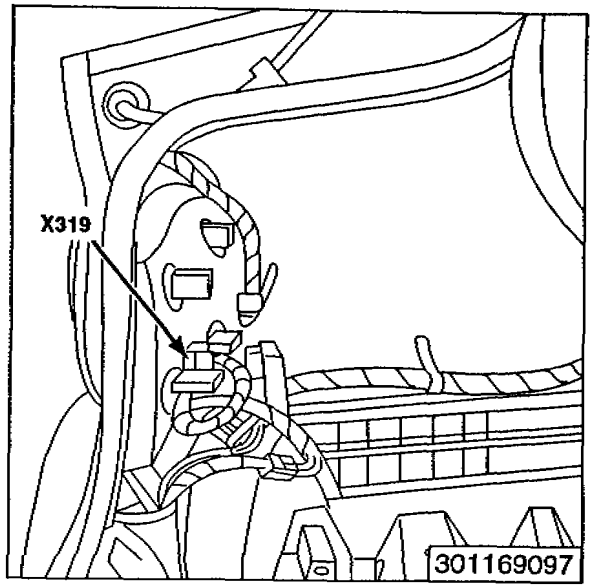


FIG 3 - In LH rear side of luggage compartment

X319	CONNECTOR (8-PINS, BLACK)

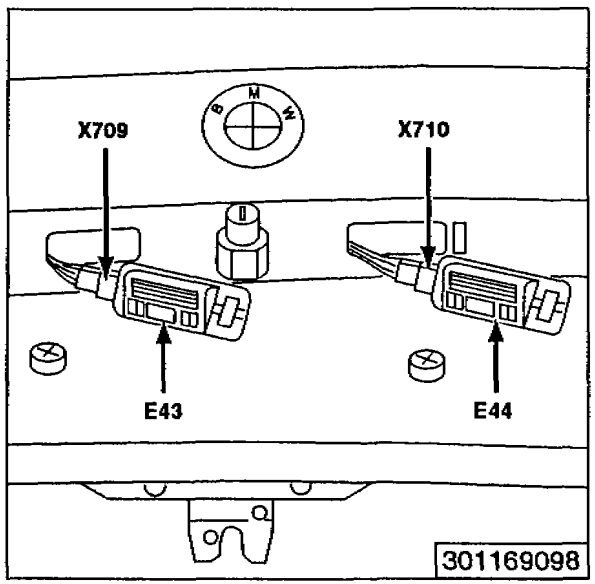


FIG 1 - Underside of trunk lid, near license plate

E43 LEFT LICENSE PLATE LIGHT
E44 RIGHT LICENSE PLATE LIGHT
X709 CONNECTOR (2-PINS, BLACK)
X710 CONNECTOR (2-PINS, BLACK)

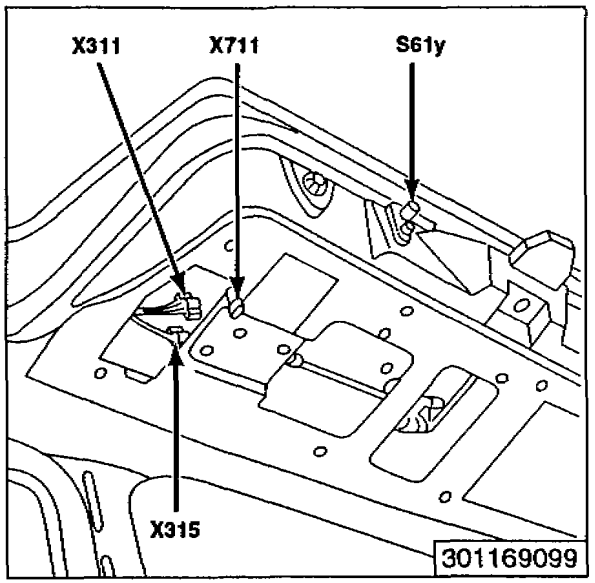


FIG 2 - Underside of trunk lid left

S61y TRUNK LIGHT SWITCH
X311 CONNECTOR (3-PINS, BLACK)
X315 CONNECTOR (2-PINS, BLACK)
X711 CONNECTOR (1-PINS, NATURAL)

SPLICE LOCATION VIEWS

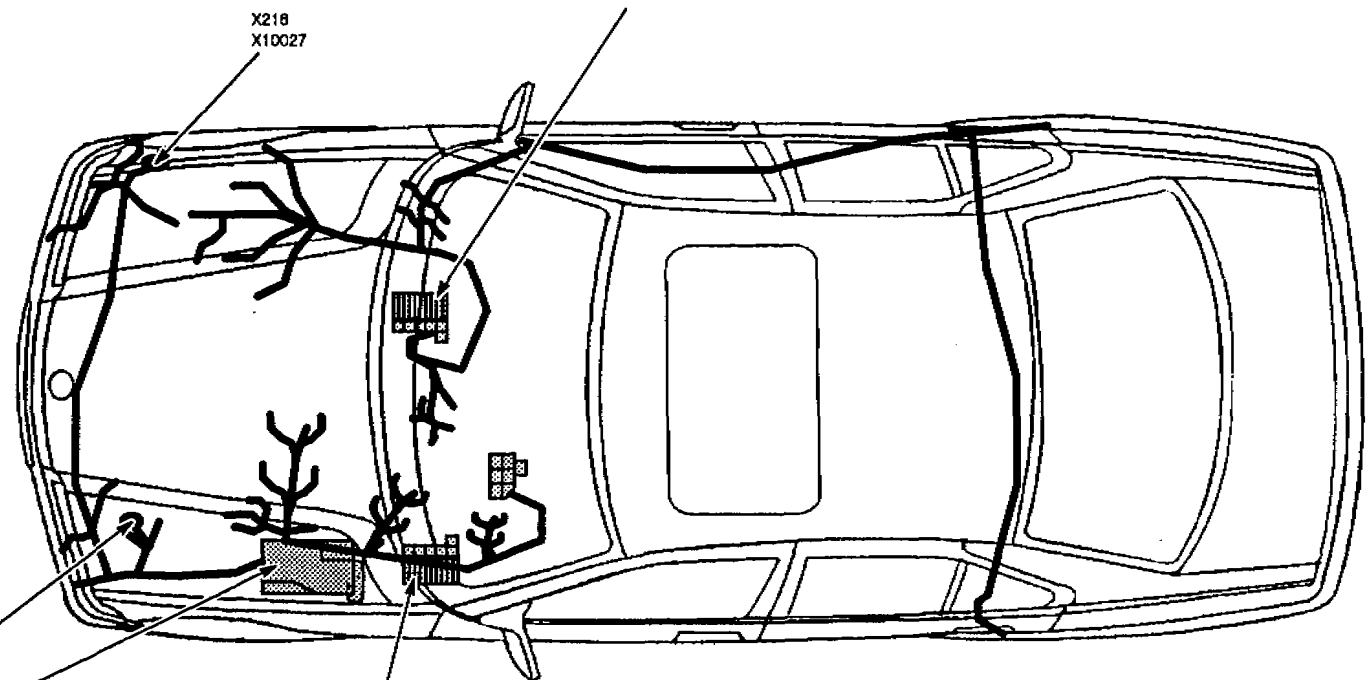
SPLICE LOCATION INDEX

INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X276	FRONT	8000.0-01
X313-X314	REAR	8000.0-02
X326	FRONT	8000.0-01
X344-X378	TRAILER ADAPTER	NOT SHOWN
X428-X481	REAR	8000.0-02
X530-X595	FRONT	8000.0-01
X805	REAR	8000.0-02
X824-X830	RADIO	NOT SHOWN
X849-X851	DRIVER'S DOOR	NOT SHOWN
X876-X878	RADIO	NOT SHOWN
X906	IHKR	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015-X1164	FRONT	8000.0-01
X1167	REAR	8000.0-02
X1169-X1192	FRONT	8000.0-01
X1212-X1218	REAR	8000.0-02
X1225	FRONT	8000.0-01
X1226-X1238	REAR	8000.0-02
X1382-X1383	RADIO	NOT SHOWN
X1387-X1396	REAR	8000.0-02
X2029-X2167	DIESEL ENGINE	NOT SHOWN
X6410	ENGINE	NOT SHOWN
X6411-X6420	M50 ENGINE	NOT SHOWN
X6458-X6463	ENGINE	NOT SHOWN
X6475	M50 ENGINE	NOT SHOWN
X6492-X6810	ENGINE	NOT SHOWN
X6820	M50 ENGINE	NOT SHOWN
X6821-X6822	ENGINE	NOT SHOWN
X6825	M40 ENGINE	NOT SHOWN
X6830-X6832	M50 ENGINE	NOT SHOWN
X6835-X6855	ENGINE	NOT SHOWN
X6860	M50 ENGINE	NOT SHOWN
X6863-X6866	ENGINE	NOT SHOWN
X6900-X6906	M50 ENGINE	NOT SHOWN
X8004	ENGINE	NOT SHOWN
X8005	M40 ENGINE	NOT SHOWN
X8007-X8010	M50 ENGINE	NOT SHOWN
X8015	ENGINE	NOT SHOWN
X8021	M50 ENGINE	NOT SHOWN
X8022	ENGINE	NOT SHOWN
X8025	M50 ENGINE	NOT SHOWN
X8033	M40 ENGINE	NOT SHOWN
X8042	ENGINE	NOT SHOWN
X8043-X8049	M40 ENGINE	NOT SHOWN
X8051	M50 ENGINE	NOT SHOWN
X8056	ENGINE	NOT SHOWN
X8071-X8565	M50 ENGINE	NOT SHOWN
X8576	ENGINE	NOT SHOWN
X10008-X10123	FRONT	8000.0-01
X13002-X13011	REAR	8000.0-02
X13021-X13115	FRONT	8000.0-01
X18160-X18161	IHKR	NOT SHOWN
X18165	FRONT	NOT SHOWN
X18281	DRIVER'S DOOR	NOT SHOWN
X18283-X18284	PASSENGER'S DOOR	NOT SHOWN
X19513-X19514	RADIO	NOT SHOWN

SPLICE LOCATION VIEWS

FRONT HARNESS



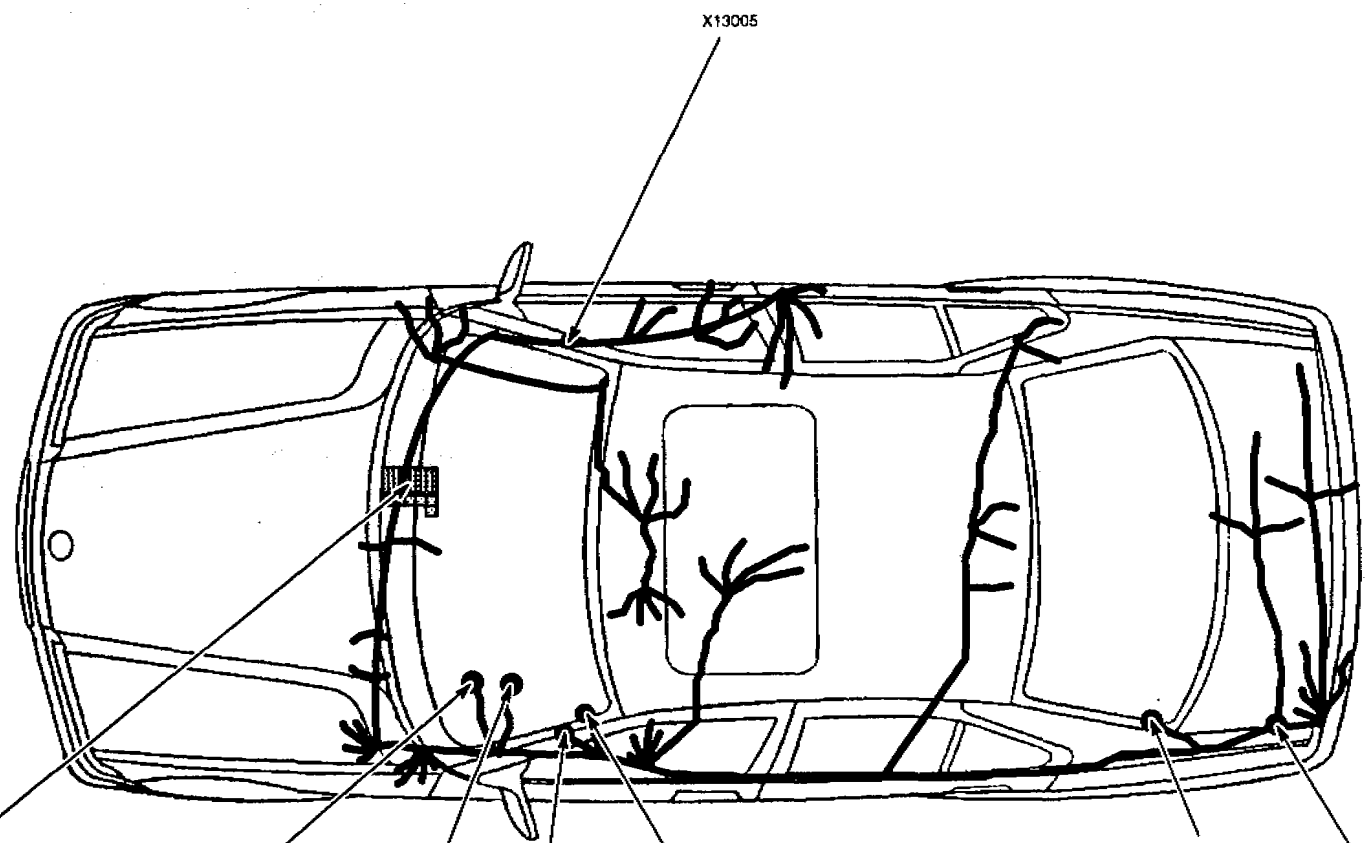
SPLICE PANEL				
X195 ●	X1164 ●			
X218 ●	X10009 ●			
X222 ●	X10064 ●			
X557 ●	X13115 ●			
X1163 ●				

SPLICE PANEL				
X184 ●	X245 ●	X1027 ●	X1152 ●	X10007 ●
X185 ●	X246 ●	X1028 ●	X1168 ●	X10020 ●
X186 ●	X276 ●	X1036 ●	X1172 ●	X10021 ●
X187 ●	X530 ●	X1066 ●	X1177 ●	X10022 ●
X203 ●	X595 ●	X1073 ●	X1186 ●	X10055 ●
X223 ●	X1015●	X1076 ●	X1192 ●	X10100 ●
X238 ●	X1022●	X1077 ●	X1233 ●	

SPLICE PANEL				
X181 ●	X213 ●	X1067 ●	X1182 ●	X10061 ●
X182 ●	X228 ●	X1069 ●	X1225 ●	X13021 ●
X183 ●	X1019 ●	X1079 ●	X10008 ●	X18165 ●
X188 ●	X1029 ●	X1080 ●	X10011 ●	
X191 ●	X1047 ●	X1085 ●	X10024 ●	
X196 ●	X1065 ●	X1169 ●	X10028 ●	
X197 ●	X1066 ●	X1179 ●	X10029 ●	

SPLICE LOCATION VIEWS

REAR HARNESS



SPLICE PANEL			
X441 ●	X450 ●	X462 ●	X1238 ●
X442 ●	X453 ●	X475 ●	X1387 ●
X443 ●	X454 ●	X481 ●	X1398 ●
X444 ●	X455 ●	X1212 ●	X13002 ●
X445 ●	X456 ●	X1235 ●	X13003 ●
X449 ●	X460 ●	X1236 ●	X13010 ●
		X1237 ●	X13011 ●

FIG. 1

B550001.00

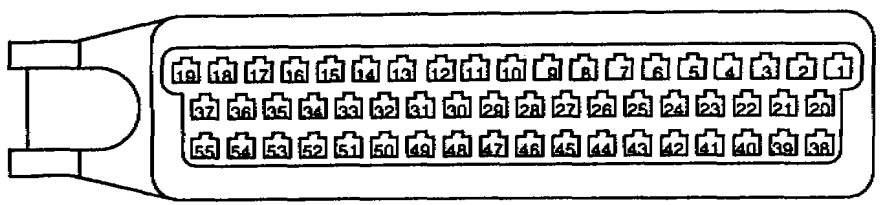


FIG. 2

B260005.00

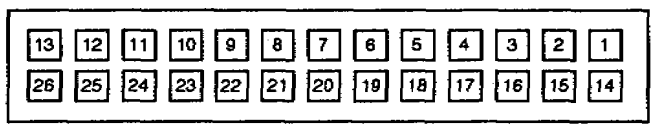


FIG. 3

B150003.00

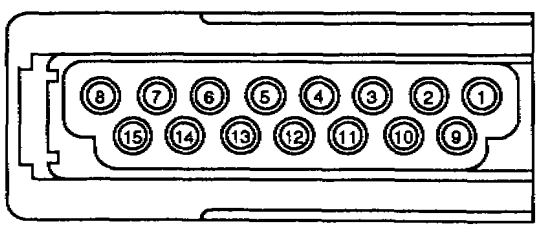
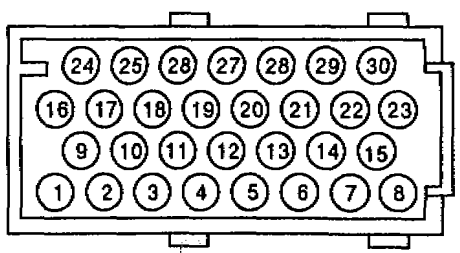


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

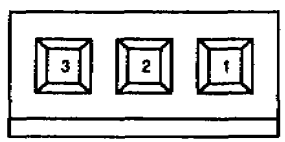


FIG. 2

B120003.00

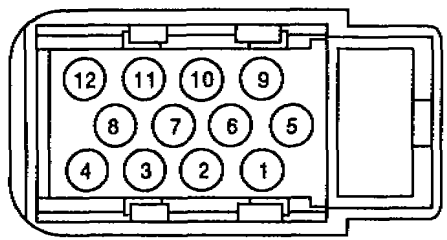


FIG. 3

B120001.00

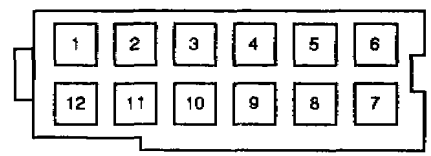


FIG. 4

B050005.00

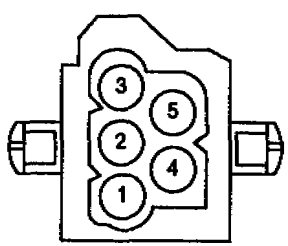


FIG. 5

B180000.00

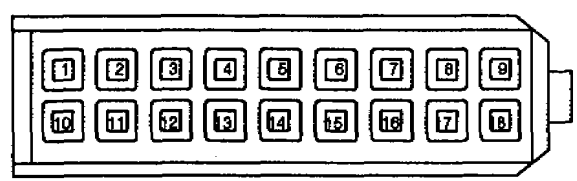
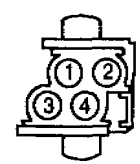


FIG. 6

B040003.00



CONNECTOR VIEWS

FIG. 1

B080002.00

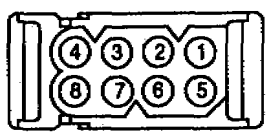


FIG. 2

B120015

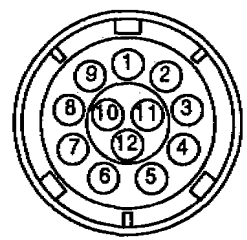


FIG. 3

B030001.00

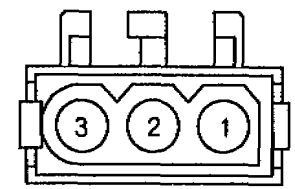


FIG. 4

B080003.00

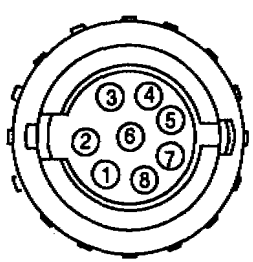


FIG. 5

B130002.00

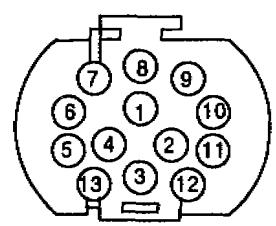
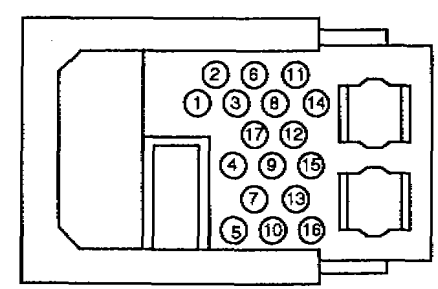


FIG. 6

B170001.00



CONNECTOR VIEWS

FIG. 1

B120002.02

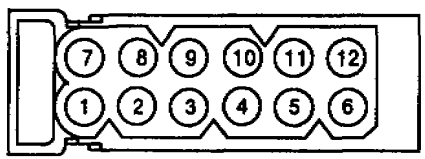


FIG. 2

B030004.00



FIG. 3

B100008.00

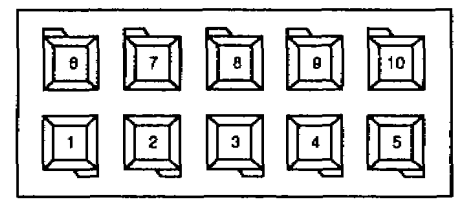


FIG. 4

B030005.00

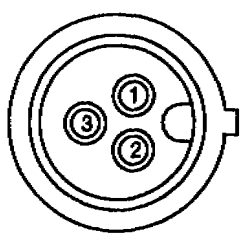


FIG. 5

B120004.01

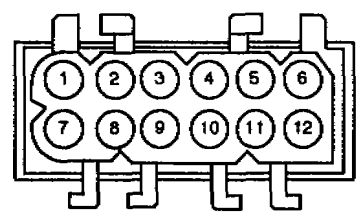
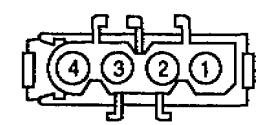


FIG. 6

B040002.00



CONNECTOR VIEWS

FIG. 1

B060006.00

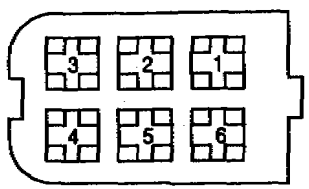


FIG. 2

B050003.00

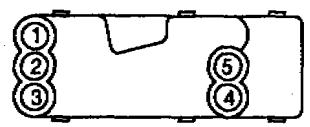


FIG. 3

B040004.00



FIG. 4

B040018

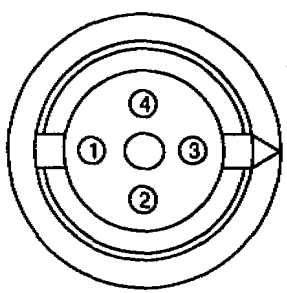


FIG. 5

B080001.00

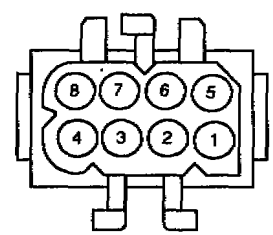
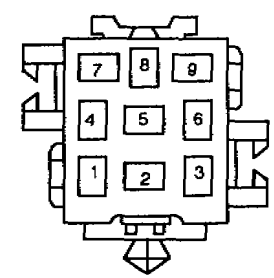


FIG. 6

B090002.00



CONNECTOR VIEWS

FIG. 1

B210002.00

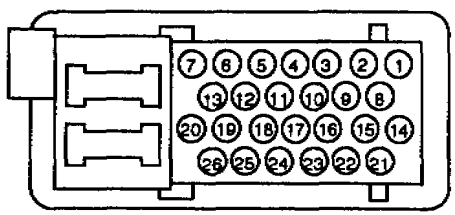


FIG. 2

B060001.02



FIG. 3

B070005.00

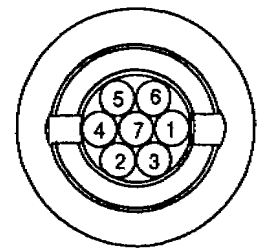


FIG. 4

B200003.00

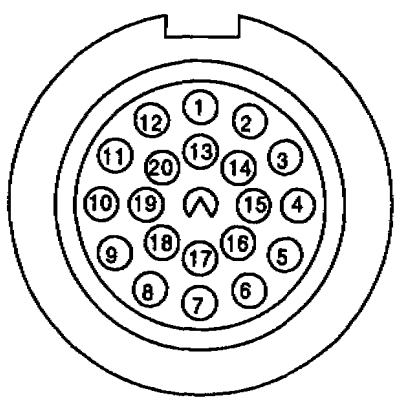


FIG. 5

B060010.01

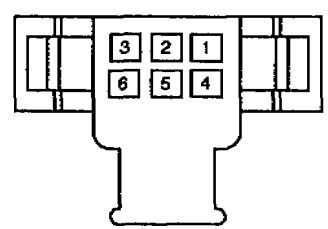


FIG. 6

B030003.02



CONNECTOR VIEWS

FIG. 1

B060008.00

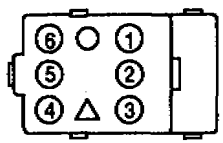


FIG. 2

B250001.00

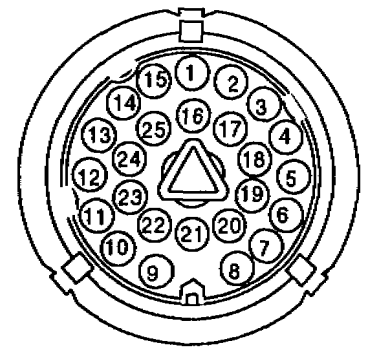


FIG. 3

B040013

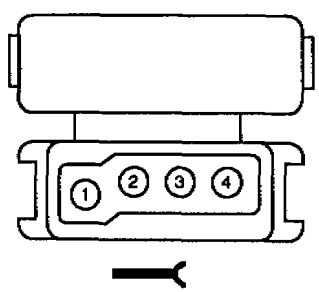


FIG. 4

B060019.02

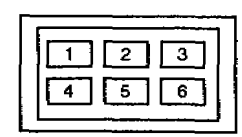


FIG. 1

B140004.00

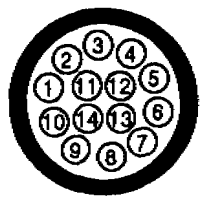


FIG. 2

B030009.00

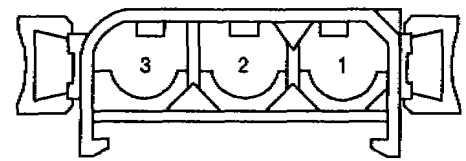


FIG. 3

B060037.00

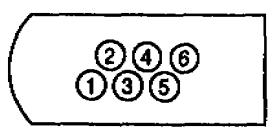


FIG. 4

B060038.00

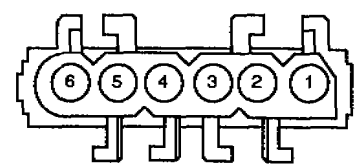


FIG. 1

B880001.00

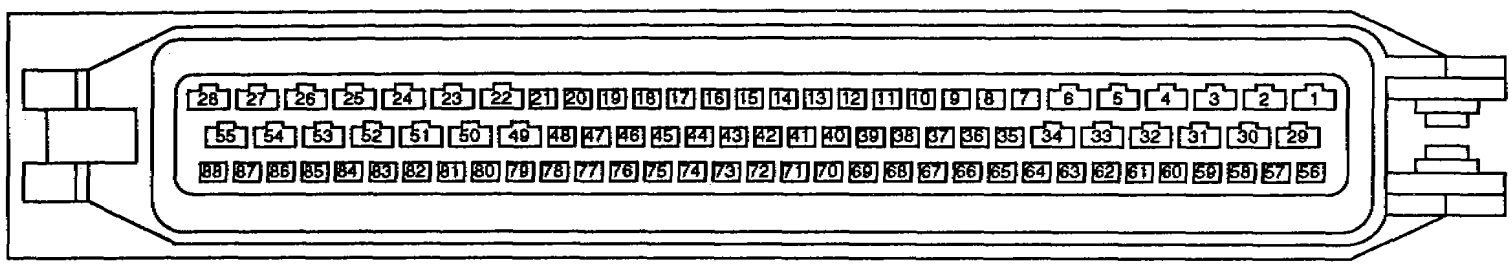


FIG. 2

B030006.00

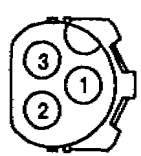
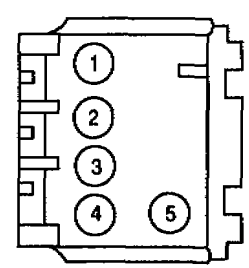


FIG. 3

B050002.00



CONNECTOR VIEWS

FIG. 1

B040022.00

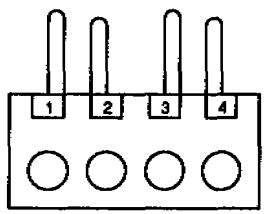


FIG. 2

B060012.00

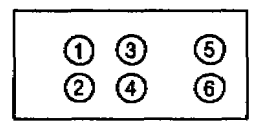


FIG. 3

B040023.00

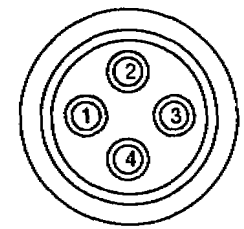


FIG. 4

B030018.00

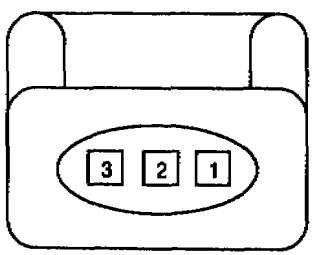


FIG. 5

B030015.08

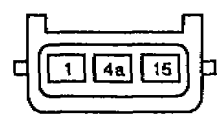


FIG. 6

B040020.00

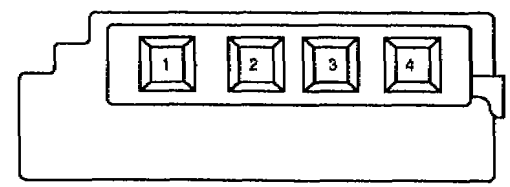


FIG. 1

B090006.01

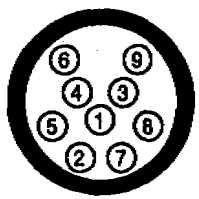


FIG. 2

B030025.00

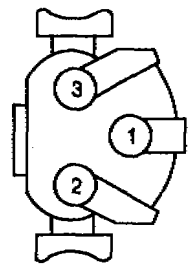


FIG. 3

B060037.01

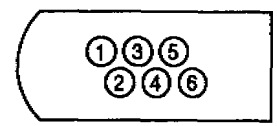


FIG. 4

B060036.00

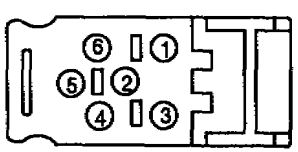


FIG. 5

B030001.00

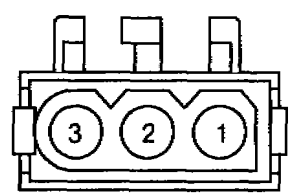
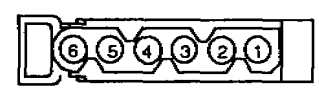


FIG. 6

B060001.00



CONNECTOR VIEWS

FIG. 1

B120004.05

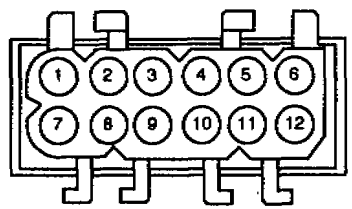


FIG. 2

B480000.00

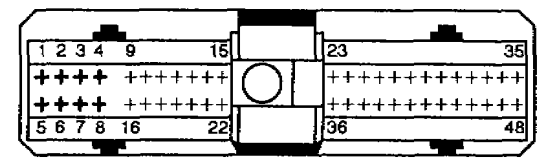
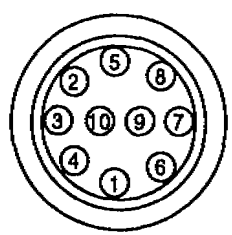
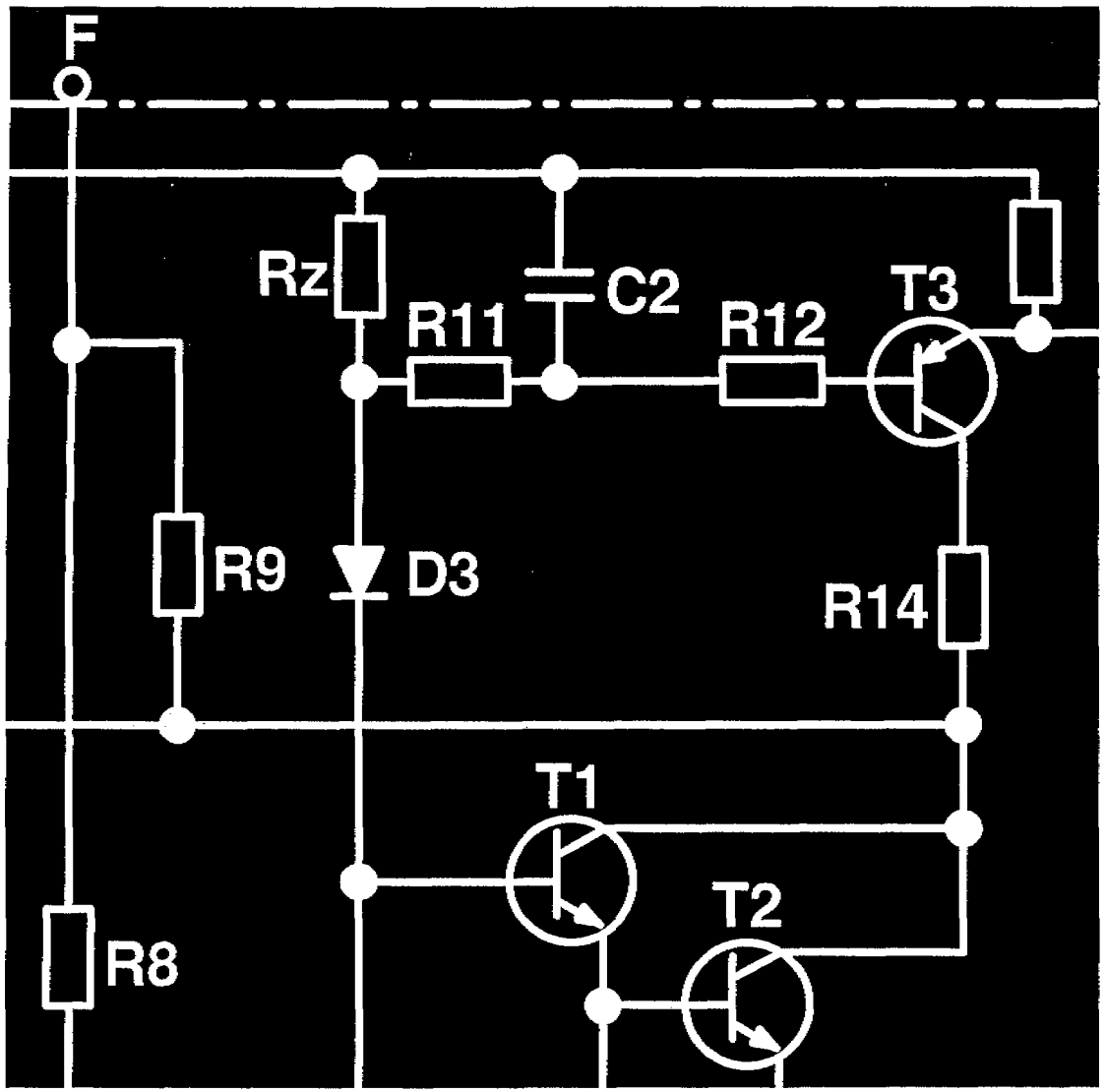


FIG. 3

B100011.01





1993
BMW
318i, 318is, 325i, 325is (E36)
Electrical Troubleshooting Manual

Vehicles Produced 09/92 to 08/93

PN 01 00 1 468 774

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

3 SERIES – E36 (318i, 318is, 325i, 325is)

SCHEMATICS MODEL YEAR 1993

0100.0 INDEX
0110.0 INTRODUCTION
0140.0 SYMBOLS
0670.0 POWER DISTRIBUTION CHART
0670.1 FUSE CHART
0670.2 POWER DISTRIBUTION
0670.3 FUSE DETAILS
0670.4 GROUND DISTRIBUTION
0670.5 DATA LINK
1210.9 ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)
1210.13 ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)
1230.0 CHARGING SYSTEM
1240.0 START
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIRBAG)
3450.0 SLIP CONTROL (ABS)
5116.0 POWER MIRRORS
5126.2 CENTRAL LOCKING MODULE II (ZVM II)
5133.1 POWER WINDOWS (FH)
5200.0 POWER SEATS
5203.0 HEATED SEATS
5410.1 POWER SUN ROOF (SHD)
6133.0 HORN
6160.1 WIPER/WASHER MODULE (WWM)
6167.1 HEADLIGHT WASHER (SRA)
6169.0 WINDSHIELD WASHER JET HEATERS
6211.0 INSTRUMENT CLUSTER
6213.2 MULTI-FUNCTION CLOCK
6300.0 LIGHT SWITCH DETAILS
6312.0 HEADLIGHTS/FOG LIGHTS
6313.0 TURN/HAZARD LIGHTS
6314.0 PARK/TAIL/UNDERHOOD LIGHTS
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS
6322.0 BACK UP LIGHTS
6325.0 BRAKE LIGHTS
6330.3 INTERIOR LIGHTS
6332.1 GLOVE BOX LIGHT/CASSETTE BOX/ ASHTRAY LIGHT/CHARGING SOCKET/ CIGAR LIGHTER
6350.0 CRASH CONTROL MODULE
6412.5 PARK VENTILATION WITH IHKR
6424.0 REAR WINDOW DEFOGGER
6450.4 INTEGRATED CLIMATE REGULATION (IHKR E36)
6510.0 RADIO/CD PLAYER (PROVISIONS)
6510.1 RADIO/HIFI
6561.0 CELLULAR TELEPHONE (PROVISIONS)
6571.0 CRUISE CONTROL (TEMPOMAT)
6575.2 ANTI-THEFT SYSTEM (ALPINE)
6581.2 ON-BOARD COMPUTER (BC V)
7000.0 COMPONENT LOCATION CHART
7100.0 COMPONENT LOCATION VIEWS
8000.0 SPLICE LOCATION VIEWS
8500.0 CONNECTOR VIEWS

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PART NUMBER 01 00 1 468 774

ABS HYDRAULIC UNIT, Y1 ..... 3450.0-01
ABS PEDAL TRAVEL SENSOR, S123 ..... 3450.0-01
ABS PUMP MOTOR RELAY, K75 ..... 3450.0-00
ABS RELAY, K10 ..... 3450.0-00
AIR BAG GAS GENERATOR I, PASSENGER'S, G6 ..... 3234.0-01
AIR BAG GENERATOR, DRIVER'S, G5 ..... 3234.0-00
AIR CONDITIONING COMPRESSOR, Y2 ..... 6450.4-05
ANTENNA AMPLIFIER AM/FM, N8 ..... 6424.0-00
ANTI-THEFT CONTROL MODULE (ALPINE), N12w 6575.2-00
ANTI-THEFT HORN (ALPINE), H1w 6575.2-01
ANTI-THEFT SYSTEM (ALPINE) 6575.2-00
AUTOMATIC CUT-OUT, F56 ..... 5133.1-01
AUTOMATIC TRANSMISSION RANGE SWITCH, S3 ..... 2460.2-03
AUXILIARY FAN MOTOR, M9 ..... 6450.4-06
AUXILIARY TURN LIGHT, LEFT FRONT, H9 ..... 6313.0-02
AUXILIARY TURN LIGHT, RIGHT FRONT, H8 ..... 6313.0-02
BACK UP LIGHTS 6322.0-00
BACK UP LIGHT, LEFT, H27 ..... 6322.0-00
BACK UP LIGHT, RIGHT, H28 ..... 6322.0-00
BATTERY, G1 ..... 0670.2-00
B+ JUMP START JUNCTION POINT, G6430 ..... 0670.2-00
BLOWER MOTOR, M30 ..... 6450.4-01
BLOWER RELAY, K4 ..... 6450.4-00
BLOWER RESISTORS, R11 ..... 6450.4-01
BLOWER SWITCH, S75 ..... 6450.4-01
BRAKE FLUID LEVEL SWITCH, B18 ..... 6211.0-00
BRAKE LIGHT, LEFT, H24 ..... 6325.0-00
BRAKE LIGHT, RIGHT, H31 ..... 6325.0-00
BRAKE LIGHT SWITCH, S29 ..... 6525.0-00
BRAKE LIGHT SWITCH, S30 ..... 6525.0-01
BRAKE LIGHTS 6325.0-00
BRAKE PAD SENSOR, LEFT FRONT, B16 ..... 6211.0-01
CAMSHAFT ACTUATOR, B6208 ..... 1210.13-01
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION), B6204 ..... 1210.9-04
CAPACITOR, C1 ..... 6330.3-00
CASSETTE BOX LIGHT, E45y 6300.0-00
CD CHANGER, N22 ..... 6510.1-00
CELLULAR TELEPHONE (PROVISIONS) 6561.0-00
CENTRAL LOCKING MODULE, A30 ..... 5126.2-00
CENTRAL LOCKING MODULE II (ZVM II) 5126.2-00
CHARGING SYSTEM 1230.0-00
CHECK CONTROL MODULE, A4 ..... 6581.2-03
CHILD PROTECTION CONTROL (CONSOLE), S130 ..... 5133.1-03
CHIME MODULE, H10 ..... 6581.2-01
CLUTCH SWITCH, S32 ..... 6525.0-01
COMBINATION SWITCH, S7 ..... 6312.0-00
COMBINATION SWITCH, S7 ..... 6313.0-00
COMFORT RELAY, K78 ..... 5133.1-00
COMFORT RELAY, K78 ..... 5410.1-00
COMPONENT LOCATION CHART 7000.0-00
COMPONENT LOCATION VIEWS 7100.0-00
COMPRESSOR CONTROL RELAY, K19 ..... 6450.4-05
CONNECTOR VIEWS 8500.0-00
CONTACT RING, C100 ..... 3234.0-00
CRANKSHAFT POSITION/RPM SENSOR, B6203 ..... 1210.9-04
CRANKSHAFT POSITION/RPM SENSOR, B6203 ..... 1210.13-04
CRASH CONTROL MODULE, N17 ..... 6350.0-01
CRASH CONTROL MODULE 6350.0-00
CRUISE CONTROL ACTUATOR (TEMPOMAT), M25 ..... 6571.0-01
CRUISE CONTROL (TEMPOMAT) 6571.0-00
CRUISE CONTROL MODULE (TEMPOMAT), A8 ..... 6571.0-00
CRUISE CONTROL SWITCH, S28 ..... 6571.0-00
CYL. 1-2 KNOCK SENSOR, B6241 ..... 1210.9-05
CYL. 1-2 KNOCK SENSOR, B6241 ..... 1210.13-05
CYL. 1 FUEL INJECTION VALVE, Y6101 ..... 1210.9-01
CYL. 1 FUEL INJECTION VALVE, Y6101 ..... 1210.13-01
CYL. 1-6 FUEL PUMP RELAY, K6301 ..... 1210.13-02
CYL. 1 IGNITION COIL, T6151 ..... 1290.9-02
CYL. 1 IGNITION COIL, T6151 ..... 1290.13-03
CYL. 2 FUEL INJECTION VALVE, Y6102 ..... 1210.9-01
CYL. 2 FUEL INJECTION VALVE, Y6102 ..... 1210.13-01
CYL. 2 IGNITION COIL, T6152 ..... 1290.9-02
CYL. 2 IGNITION COIL, T6152 ..... 1290.13-03

INDEX

CYL. 3 FUEL INJECTION VALVE, Y6103 ..... 1210.9-01
CYL. 3 FUEL INJECTION VALVE, Y6103 ..... 1210.13-01
CYL. 3-4 KNOCK SENSOR, B6242 ..... 1210.9-05
CYL. 3-4 KNOCK SENSOR, B6242 ..... 1210.13-05
CYL. 3 IGNITION COIL, T6153 ..... 1290.9-02
CYL. 3 IGNITION COIL, T6153 ..... 1290.13-03
CYL. 4 FUEL INJECTION VALVE, Y6104 ..... 1210.9-01
CYL. 4 FUEL INJECTION VALVE, Y6104 ..... 1210.13-01
CYL. 4 IGNITION COIL, T6154 ..... 1290.9-02
CYL. 4 IGNITION COIL, T6154 ..... 1290.13-03
CYL. 5 FUEL INJECTION VALVE, Y6105 ..... 1210.13-01
CYL. 5 IGNITION COIL, T6155 ..... 1290.9-02
CYL. 5 IGNITION COIL, T6155 ..... 1290.13-03
CYL. 6 FUEL INJECTION VALVE, Y6106 ..... 1210.13-01
CYL. 6 IGNITION COIL, T6156 ..... 1290.9-02
CYL. 6 IGNITION COIL, T6156 ..... 1290.13-03
DASH VENT MIXING FLAP MOTOR, M34 ..... 6450.4-04
DATA LINK 0670.5-00
DATA LINK CONNECTOR, D100 ..... 0670.5-00
DAYTIME RUNNING LIGHTS CODING DIODE, V4 ..... 6314.0-02
DOOR HANDLE SWITCH, DRIVER'S, S48 ..... 5126.2-01
DOOR JAMB SWITCH, DRIVER'S, S14 ..... 5126.2-01
DOOR JAMB SWITCH, LEFT REAR, S16 ..... 5126.2-01
DOOR JAMB SWITCH, PASSENGER'S, S13 ..... 5126.2-01
DOOR JAMB SWITCH, REAR RIGHT, S15 ..... 5126.2-01
DOOR LOCK MOTOR, DRIVER'S, M12 ..... 5126.2-04
DOOR LOCK MOTOR, LEFT REAR, M15 ..... 5126.2-03
DOOR LOCK MOTOR, M13 ..... 5126.2-04
DOOR LOCK MOTOR, REAR, RIGHT, M14 ..... 5126.2-03
DOOR LOCK SWITCH, DRIVER'S, S47 ..... 5126.2-00
DOOR LOCK SWITCH, PASSENGER'S, S49 ..... 5126.2-00
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 2460.2-00
ENGINE CONTROL MODULE (DME), A6000 ..... 1210.9-00
ENGINE CONTROL MODULE (DME), A6000 ..... 1210.13-00
ENGINE CONTROL MODULE RELAY, K6300 ..... 1210.9-00
ENGINE CONTROL MODULE RELAY, K6300 ..... 1210.13-00
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42) ... 1210.9-00
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER, M50) 1210.13-00
ENGINE COOLANT LEVEL SWITCH, S63 ..... 6581.2-03
ENGINE COOLANT TEMPERATURE SENSOR, B6232 ..... 6211.0-02
ENGINE COOLANT TEMPERATURE SENSOR, B6236 ..... 1210.9-05
ENGINE COOLANT TEMPERATURE SENSOR, B6236 ..... 1210.13-05
ENGINE HOOD SWITCH, S21w 6581.2-02
EVAPORATIVE EMISSION VALVE, Y6120 ..... 1210.9-01
EVAPORATIVE EMISSION VALVE, Y6120 ..... 1210.13-01
EVAPORATOR TEMPERATURE SENSOR, B14 ..... 6450.4-03
FOG LIGHT, LEFT, E26 ..... 6312.0-00
FOG LIGHT, LEFT REAR, H26 ..... 6312.0-04
FOG LIGHT, RIGHT, E27 ..... 6312.0-00
FOG LIGHT, RIGHT, REAR, H29 ..... 6312.0-04
FOG LIGHT SWITCH, S10 ..... 6312.0-00
FRESH AIR FLAP MOTOR, M36 ..... 6450.4-04
FRONT ASHTRAY LIGHT, E25 ..... 6332.1-00
FRONT CIGAR LIGHTER, E28 ..... 6332.1-00
FRONT CIGAR LIGHTER LIGHT, E29 ..... 6300.0-03
FRONT DOME LIGHT/MAP READING ASSEMBLY, E34 ..... 6330.3-00
FRONT FOG LIGHT RELAY, K47 ..... 6312.0-00
FRONT POWER DISTRIBUTION BOX, P90 ..... 0670.2-00
FUEL LEVEL SENSOR, B6 ..... 6211.0-04
FUEL PUMP, M2 ..... 1210.9-03
FUEL PUMP, M2 ..... 1210.13-02
FUEL PUMP RELAY, K6301w 1210.9-03
FUSE CHART 0670.1-00
FUSE DETAILS 0670.3-00
FUSIBLE LINK, F97 ..... 0670.2-01
GAS FILLER LOCK MOTOR, M16 ..... 5126.2-05
GENERATOR, G6509 ..... 1230.0-00
GLOVE BOX LIGHT, E42 ..... 6332.1-00
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER 6332.1-00
GLOVE BOX LIGHT SWITCH, S37 ..... 6332.1-00
GROUND DISTRIBUTION 0670.4-00
HALL EFFECT CAMSHAFT SENSOR, B6209 ..... 1210.13-05

HAZARD FLASHER RELAY, K16 ..... 6313.0-00
HAZARD SWITCH, S18 ..... 6313.0-01
HEADLIGHT/FOG LIGHT WASHER PUMP, M7 ..... 6167.1-00
HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA), N6 ..... 6167.1-00
HEADLIGHT WASHER (SRA) 6167.1-00
HEADLIGHTS/FOG LIGHTS 6312.0-00
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 ..... 6450.4-03
HEAT EXCHANGER TEMPERATURE SENSOR, RH, B12 ..... 6450.4-03
HEATED OXYGEN SENSOR, B6200 ..... 1210.9-04
HEATED OXYGEN SENSOR, B6200 ..... 1210.13-06
HEATED SEATS 5203.0-00
HIFI AMPLIFIER, A18 ..... 6510.1-00
HIGH BEAM LIGHT RELAY, K46 ..... 6312.0-01
HIGH BEAM LIGHT, LEFT, E11 ..... 6312.0-01
HIGH BEAM LIGHT, RIGHT , E12 ..... 6312.0-01
HIGH RANGE SPEAKER, LEFT REAR, H56 ..... 6510.1-01
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.0-00
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.1-02
HIGH RANGE SPEAKER, RIGHT REAR, H53 ..... 6510.1-02
HIGH LEVEL STOP LIGHT, H34 ..... 6325.0-00
HIGH RANGE SPEAKER, LEFT FRONT, H59 ..... 6510.1-01
HIGH SPEED RELAY, K22 ..... 6450.4-06
HORN 6133.0-00
HORN, LEFT, H2 ..... 6133.0-00
HORN RELAY, K2 ..... 6133.0-00
HORN, RIGHT, H3 ..... 6133.0-00
HORN SWITCH, S4 ..... 6133.0-00
HOT FILM AIR MASS METER, B6217 ..... 1210.13-05
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.9-01
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.13-01
IGNITION SWITCH, S2 ..... 0670.2-04
IHKR CONTROL PANEL, S134y 6450.4-02
IMPACT SENSOR, LEFT FRONT, S71 ..... 3234.0-00
IMPACT SENSOR, RIGHT FRONT, S72 ..... 3234.0-00
INDEX 0100.0-00
INERTIA SWITCH, S27 ..... 5126.2-00
INSTRUMENT CLUSTER, A2 ..... 6211.0-00
INSTRUMENT CLUSTER 6211.0-00
INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131 ..... 1210.9-01
INTAKE AIR TEMPERATURE SENSOR, B6205 ..... 1210.13-05
INTEGRATED CLIMATE REGULATION (IHKR E36) 6450.4-00
INTEGRATED CLIMATE REGULATION CONTROL MODULE, A87y 6450.4-00
INTENSIVE WASH PUMP, M5 ..... 6160.1-02
INTERIOR LIGHTS 6330.3-00
INTERIOR LIGHT, LEFT REAR, E39 ..... 6330.3-00
INTERIOR LIGHT, RIGHT REAR, E40 ..... 6330.3-00
INTRODUCTION 0110.0-00
JET HEATER THERMOSWITCH, S198 ..... 6169.0-00
KICK-DOWN SWITCH, S8507 ..... 2460.2-04
LICENSE PLATE LIGHT, LEFT, E43 ..... 6320.0-00
LICENSE PLATE LIGHT, RIGHT, E44 ..... 6320.0-00
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS 6320.0-00
LIGHT SWITCH, S8 ..... 6300.0-00
LIGHT SWITCH DETAILS 6300.0-00
LOW BEAM LIGHT, LEFT, E13 ..... 6312.0-01
LOW BEAM LIGHT RELAY, K48 ..... 6312.0-01
LOW BEAM LIGHT, RIGHT, E14 ..... 6312.0-01
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.0-00
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.1-01
LOW RANGE SPEAKER, LEFT REAR, H57 ..... 6510.1-01
LOW RANGE SPEAKER, RIGHT REAR, H52 ..... 6510.1-02
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.0-00
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.1-02
MAKEUP MIRROR LIGHT, DRIVER'S, E35 ..... 6330.3-00
MAKEUP MIRROR LIGHT, PASSENGER'S, E36 ..... 6330.3-00
MAKEUP MIRROR SWITCH, DRIVER'S, S77 ..... 6330.3-00
MAKEUP MIRROR SWITCH, PASSENGER'S, S78 ..... 6330.3-00
MID-HIGH RANGE SPEAKER, LEFT, H42 ..... 6510.1-01
MID-HIGH RANGE SPEAKER, RIGHT, H43 ..... 6510.1-02
MIDRANGE SPEAKER, LEFT FRONT, H55 ..... 6510.1-01
MIDRANGE SPEAKER, RIGHT FRONT, H54 ..... 6510.1-02
MICROPHONE, B400 ..... 6561.0-00
MIRROR CONTROL SWITCH, S17 ..... 5116.0-00

INDEX

MIRROR, DRIVER'S SIDE, Y5 ..... 5116.0-01
MIXING ACTUATOR, R1 ..... 6450.4-03
MULTI-FUNCTION CLOCK, N10 ..... 6213.2-00
MULTI-FUNCTION CLOCK 6213.2-00
NORMAL SPEED RELAY, K21 ..... 6450.4-06
OIL PRESSURE SWITCH, B6231 ..... 6211.0-00
ON-BOARD COMPUTER, N4 ..... 6581.2-00
ON-BOARD COMPUTER (BC V) 6581.2-00
ON-BOARD COMPUTER HORN RELAY, K91 ..... 6581.2-02
ON-BOARD COMPUTER TEMPERATURE SENSOR, B21 ..... 6581.2-00
OUTSIDE TEMPERATURE SENSOR, B13 ..... 6450.4-03
OXYGEN SENSOR RELAY, K6303 ..... 1210.9-04
OXYGEN SENSOR RELAY, K6303 ..... 1210.13-02
PARK BRAKE SWITCH, S31 ..... 6211.0-00
PARK HEATING/VENTILATION RELAY BOX, A15 ..... 6412.5-01
PARK LIGHT/LICENSE PLATE LIGHT RELAY, RIGHT, K25 ..... 6300.0-01
PARK LIGHT/LICENSE PLATE LIGHT RELAY, RIGHT, K25 ..... 6314.0-02
PARK LIGHT, LEFT, E15 ..... 6314.0-01
PARK LIGHT, RIGHT, E19 ..... 6314.0-01
PARK LIGHT RELAY, LEFT, K26 ..... 6314.0-02
PARK/TAIL/UNDERHOOD LIGHTS 6314.0-00
PARK VENTILATION WITH IHKR 6412.5-00
POWER WINDOW MODULE, PASSENGER'S, A961 ..... 5133.1-06
POWER WINDOW MODULE, DRIVER'S SIDE, A61 ..... 5133.1-02
POWER WINDOW SWITCH, DRIVER'S, S126y 5133.1-02
POWER WINDOW SWITCH, PASSENGER'S, S127y 5133.1-01
POWER WINDOW SWITCH, REAR DOOR (CONSOLE) LH, S128y 5133.1-03
POWER WINDOW SWITCH, REAR DOOR (CONSOLE) RH, S129y 5133.1-03
POWER DISTRIBUTION 0670.2-00
POWER DISTRIBUTION CHART 0670.0-00
POWER MIRRORS 5116.0-00
POWER SEATS 5200.0-00
POWER SUN ROOF (SHD) 5410.0-00
POWER WINDOWS (FH) 5133.1-00
PRESSURE SWITCH, B9508 ..... 6450.4-06
PROGRAM SWITCH, S8503 ..... 2460.2-00
RADIO, N9 ..... 6510.1-00
RADIO/CD PLAYER (PROVISIONS) 6510.0-00
RADIO/HIFI 6510.1-00
RADIO MICROSWITCH, S20y 6581.2-02
REAR ASHTRAY LIGHT, E28y 6300.0-03
REAR BRAKE PAD SENSOR, B17 ..... 6211.0-01
REAR DEFOGGER/ANTENNA, E10 ..... 6424.0-01
REAR DEFOGGER I, E9 ..... 6424.0-01
REAR DEFOGGER RELAY, K13 ..... 6424.0-00
REAR FOG LIGHT SWITCH, S82 ..... 6312.0-04
REAR WINDOW DEFOGGER 6424.0-00
RECIRCULATION FLAP MOTOR, M40 ..... 6450.4-04
RESISTOR, R8554 ..... 1210.13-04
REVERSING LIGHT SWITCH, S8511 ..... 6322.0-00
SEATBACK HEATER, DRIVER'S, E56 ..... 5203.0-00
SEATBACK HEATER, PASSENGER'S, E59 ..... 5203.0-00
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 ..... 5200.0-01
SEAT BELT SWITCH, DRIVER'S, S58 ..... 6211.0-01
SEAT BELT SWITCH, PASSENGER'S, S59 ..... 3234.0-01
SEAT CONTROL SWITCH, DRIVER'S, S51 ..... 5200.0-00
SEAT CONTROL SWITCH, PASSENGER'S, S56 ..... 5200.0-01
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-00
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 ..... 5200.0-01
SEAT HEATER, DRIVER'S, E57 ..... 5203.0-00
SEAT HEATER, PASSENGER'S, E58 ..... 5203.0-00
SEAT HEATER SWITCH, DRIVER'S, S53 ..... 5203.0-00
SEAT HEATER SWITCH, PASSENGER'S, S54 ..... 5203.0-00
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT LOAD ASSEMBLY, A113 ..... 3234.0-01
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-00
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 ..... 5200.0-01
SHIFT-LOCK, Y19 ..... 2460.2-04
SIDE MIRROR, PASSENGER'S, Y6 ..... 5116.0-01
SLIP CONTROL (ABS) 3450.0-00

SLIP CONTROL MODULE (ABS), A7 ..... 3450.0-00
SPEAKER, LEFT FRONT, H41 ..... 6561.0-00
SPEAKER, LEFT REAR, H46 ..... 6510.0-00
SPEAKER, LEFT REAR, H46 ..... 6510.1-01
SPEAKER, RIGHT REAR, H45 ..... 6510.0-00
SPEAKER, RIGHT REAR, H45 ..... 6510.1-02
SPEED SENSOR - ABS, LEFT FRONT, B2 ..... 3450.0-02
SPEED SENSOR - ABS, LEFT REAR, B4 ..... 3450.0-03
SPEED SENSOR - ABS, RIGHT FRONT, B1 ..... 3450.0-02
SPEED SENSOR - ABS, RIGHT REAR, B3 ..... 3450.0-02
SPLICE LOCATION VIEWS 8000.0-00
START 1240.0-00
STARTER, M6510 ..... 1240.0-01
STARTER RELAY, K1 ..... 1240.0-01
SUNROOF CONTROL ASSEMBLY, A56 ..... 5410.1-01
SUNROOF MOTOR, M24 ..... 5410.1-01
SUNROOF SWITCH, S38 ..... 5410.1-01
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0-00
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 ..... 3234.0-00
SUPPRESSION FILTER, C900 ..... 6424.0-01
SYMBOLS 0140.0-00
TAIL LIGHT, LEFT, H25 ..... 6314.0-01
TAIL LIGHT, LEFT, H37 ..... 6314.0-01
TAIL LIGHT, RIGHT, H30 ..... 6314.0-01
TAIL LIGHT, RIGHT, H39 ..... 6314.0-01
TELEPHONE HANDSET, U4 ..... 6561.0-00
TELEPHONE TRANSCEIVER, H38 ..... 6561.0-00
TEMPERATURE SWITCH, S36 ..... 6450.4-06
THROTTLE POSITION SENSOR, R6252 ..... 1210.9-05
THROTTLE POSITION SENSOR, R6252 ..... 1210.13-05
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 2460.2-03
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6314.0-01
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2-04
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2-05
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2-05
TRUNK LIGHT SWITCH, S61y 6575.2-00
TRUNK LOCK MOTOR, M17 ..... 5126.2-05
TURN/HAZARD LIGHTS 6313.0-00
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0-02
TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
TWIN RELAY MODULE, N21 ..... 6160.1-02
UNDERHOOD LIGHT, E20 ..... 6300.0-00
UNDERHOOD LIGHT SWITCH, S19 ..... 6300.0-00
UNLOADER RELAY, TERMINAL 15, K9 ..... 5203.0-00
VEHICLE SPEED SENSOR, B10 ..... 6211.0-04
VOLUME AIR FLOW SENSOR, B6233 ..... 1210.9-05
WASHER FLUID LEVEL SWITCH, S64 ..... 6581.2-03
WASHER JET HEATER, LEFT, E51 ..... 6169.0-00
WASHER JET HEATER, RIGHT, E52 ..... 6169.0-00
WASHER PUMP, M4 ..... 6160.1-00
WASHER PUMP, M4 ..... 6160.1-02
WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.1-01
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.1-03
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.1-03

WINDOW SWITCH, LEFT REAR, S41 ..... 5133.1-03
WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH, PASSENGER'S, S180 ..... 5126.2-02
WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH, DRIVER'S, S179 ..... 5126.2-02
WINDOW SWITCH, RIGHT REAR, S42 ..... 5133.1-03
WINDSHIELD WASHER JET HEATERS 6169.0-00
WIPER MOTOR, M3 ..... 6160.1-00
WIPER MOTOR RELAY, K53 ..... 6160.1-01
WIPER RELAY, K11 ..... 6160.1-01
WIPER/WASHER MODULE, A51 ..... 6160.1-02
WIPER/WASHER MODULE (LOW II), A64 ..... 6160.1-00
WIPER/WASHER MODULE (WWM) 6160.1-00

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

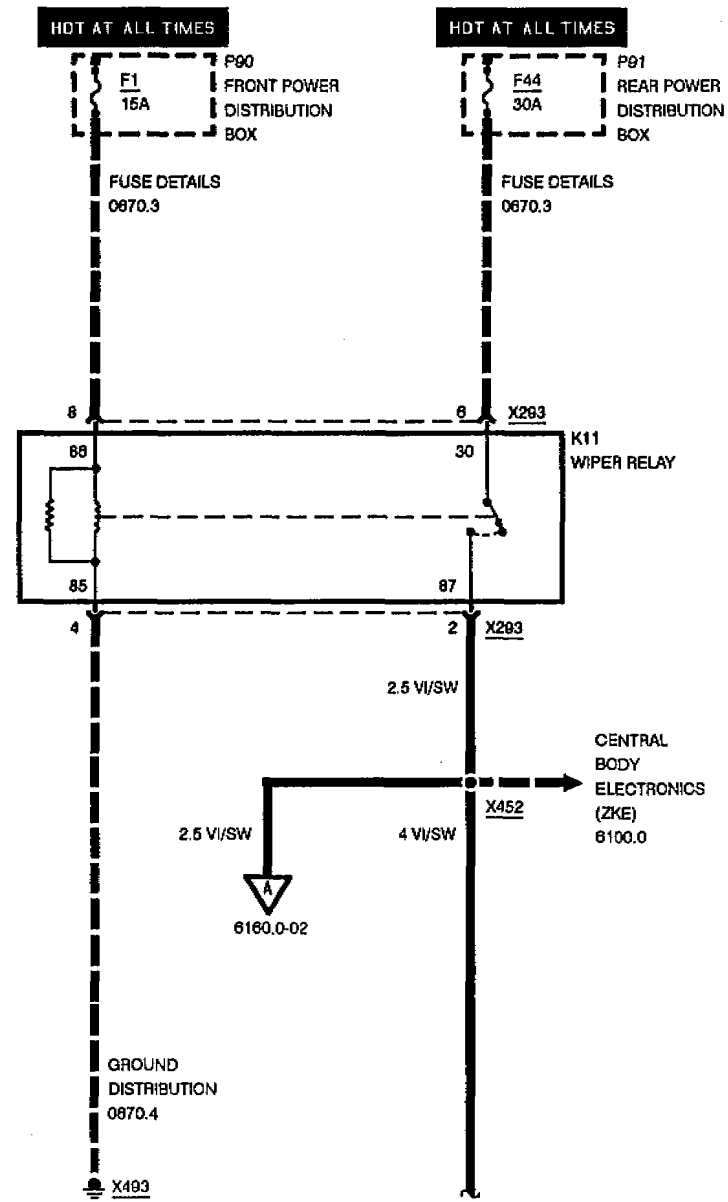
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC, etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.

7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors, and cross sections.

8. The interrupted line from splice X452 with an **A** in the open arrow is continued on page 6160.0-02.
Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

SYMBOLS


BATTERY


FUSE DETAILS

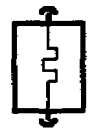

FUSIBLE LINK


CIRCUIT BREAKER


THERMO SWITCH

SOLENOID


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID


HEATING ELEMENT

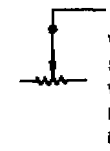

LOUDSPEAKER OR HORN


LIGHT


PERMANENT MAGNET MOTOR
ONE SPEED


PERMANENT MAGNET MOTOR
TWO SPEEDS


KNOCK SENSOR


VARIABLE RESISTANCE
SENSOR
VARIABLE CONTACT IS
MOVED BY AN EXTERNAL
FORCE


VARIABLE RESISTOR
RESISTANCE IS CHANGED
BY TEMPERATURE OR
PRESSURE


DIODE
CURRENT CAN FLOW ONLY
IN DIRECTION OF ARROW

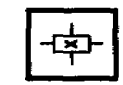

ZENER DIODE
TO REGULATE VOLTAGE


LIGHT EMITTING DIODE


OXYGEN SENSOR


ANTENNA


CONTROL/POWER ELECTRONICS


HALL EFFECT SENSOR


RADIO



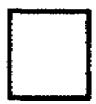
TRANSISTORIZED SWITCH

INDUCTIVE SENSOR



VEHICLE SPEED SENSOR

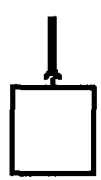
SYMBOLS

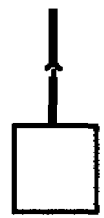

ENTIRE COMPONENT SHOWN

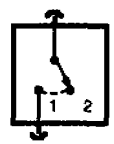

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

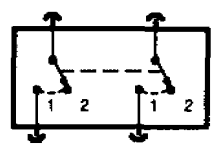

COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)


CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



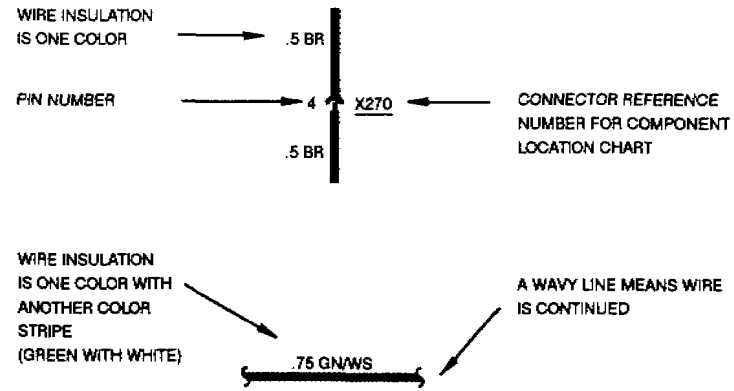
ONE POLE, TWO POSITION SWITCH

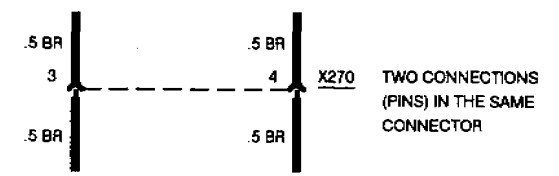


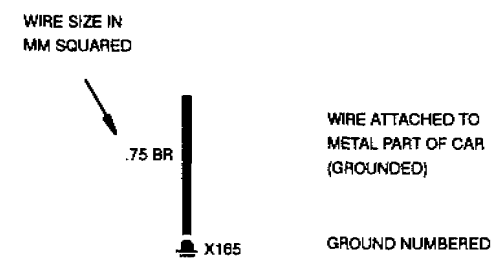
SWITCHES THAT MOVE TOGETHER

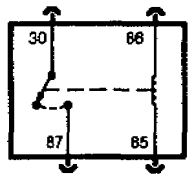
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

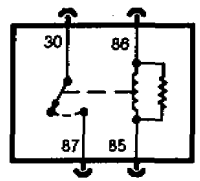




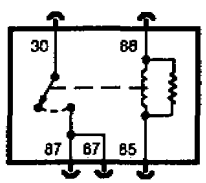




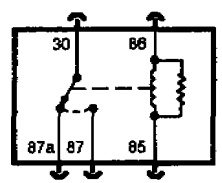
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

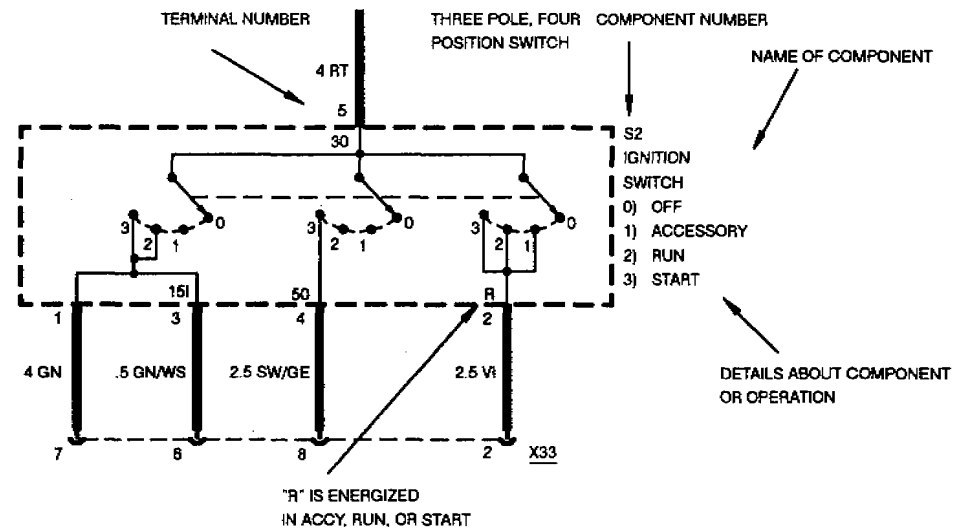


CONTACT RELAY WITH TWO OUTPUTS



CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)



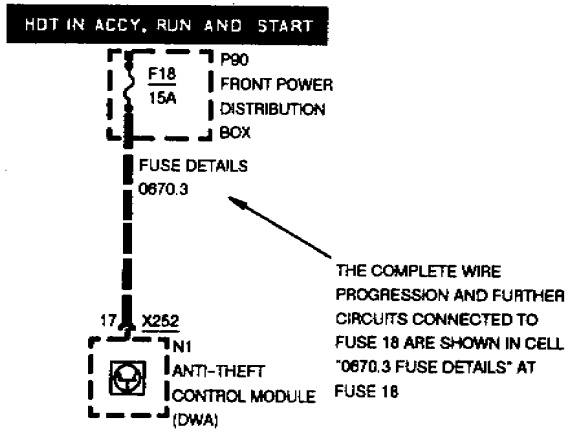
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

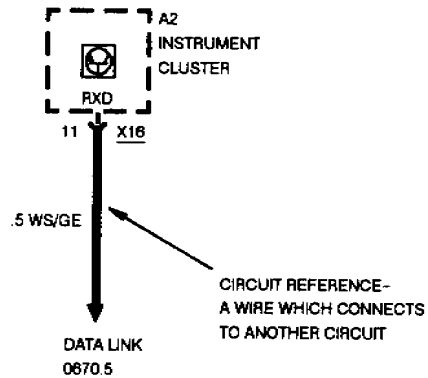


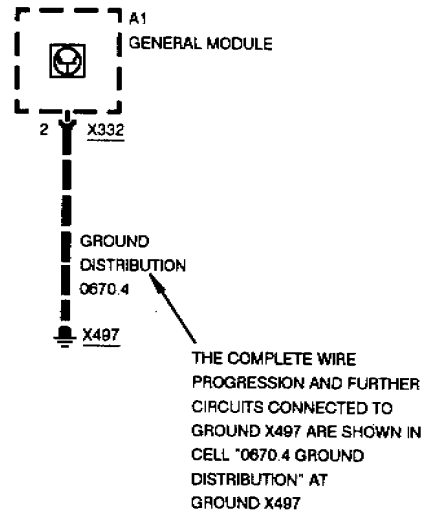
INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

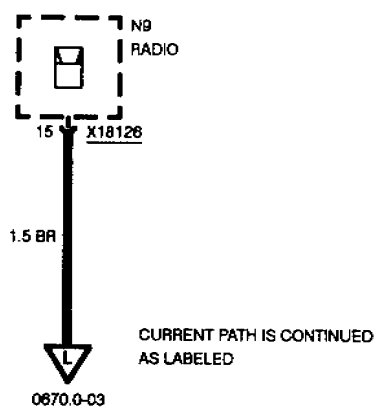
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

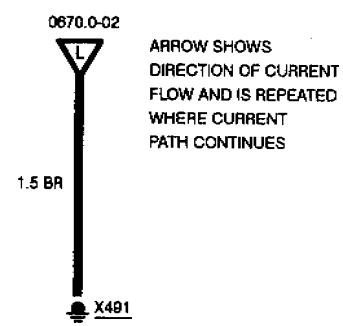
SYMBOLS


HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18
17
X252
N1
ANTI-THEFT
CONTROL MODULE
(DWA)

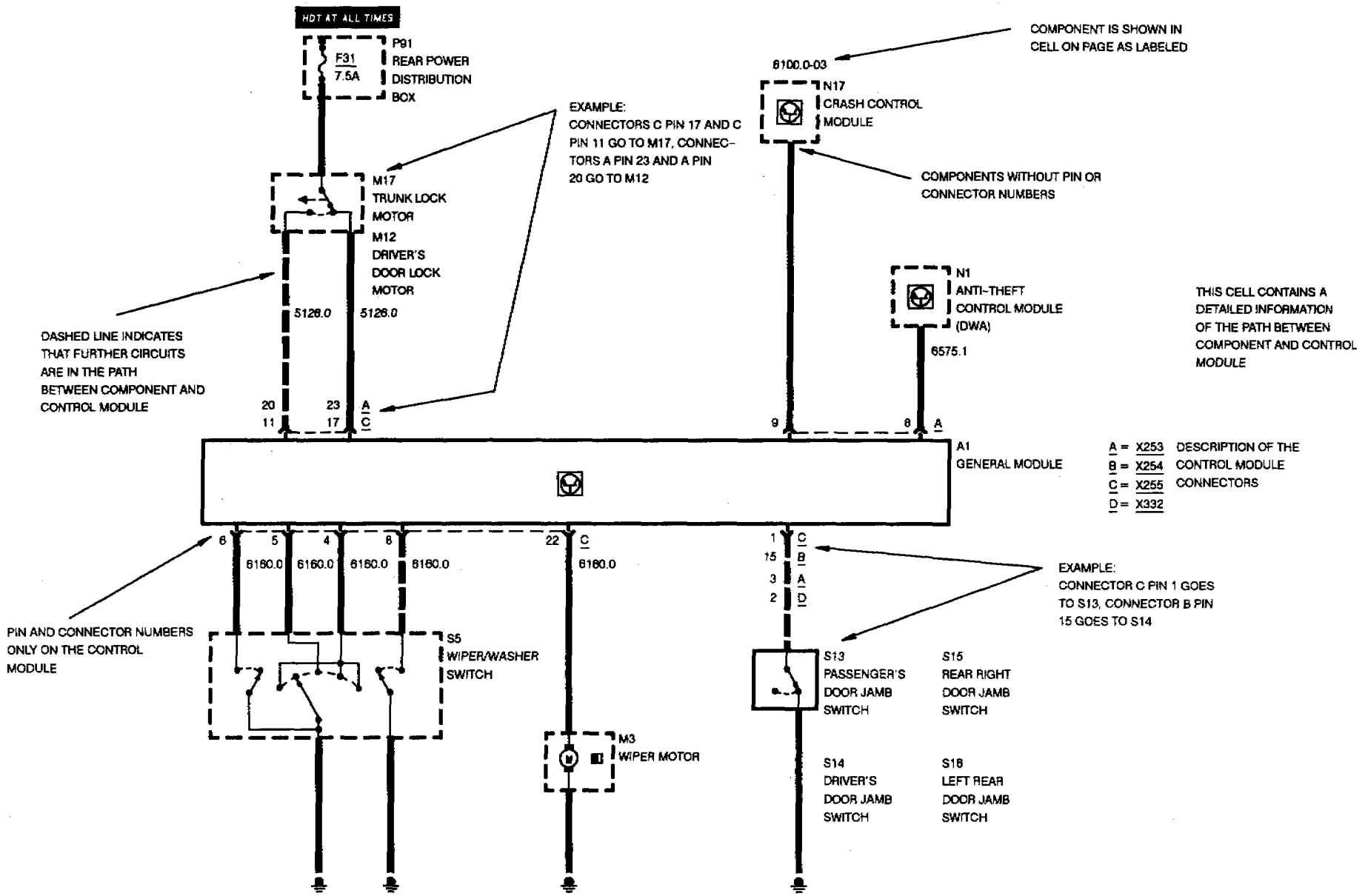

A2
INSTRUMENT
CLUSTER
RXD
11
X16
.5 WS/GE
CIRCUIT REFERENCE-
A WIRE WHICH CONNECTS
TO ANOTHER CIRCUIT
DATA LINK
0670.5


A1
GENERAL MODULE
2
X332
GROUND
DISTRIBUTION
0670.4
X497
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497


N9
RADIO
15
X18126
1.5 BR
L
0670.0-03
CURRENT PATH IS CONTINUED
AS LABELED

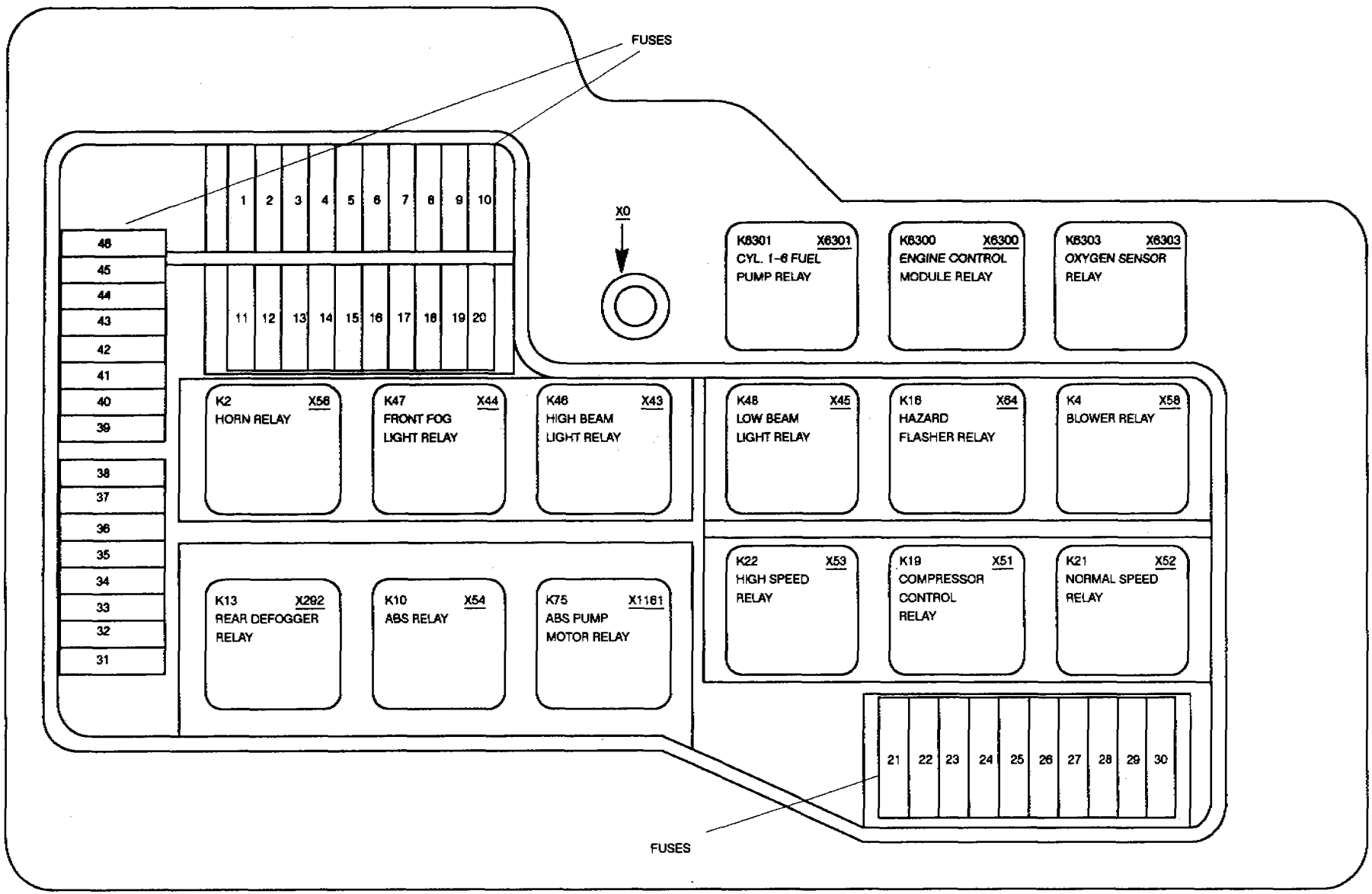

0670.0-02
L
ARROW SHOWS
DIRECTION OF CURRENT
FLOW AND IS REPEATED
WHERE CURRENT
PATH CONTINUES
1.5 BR
X491

SYMBOLS
BLOCK DIAGRAM



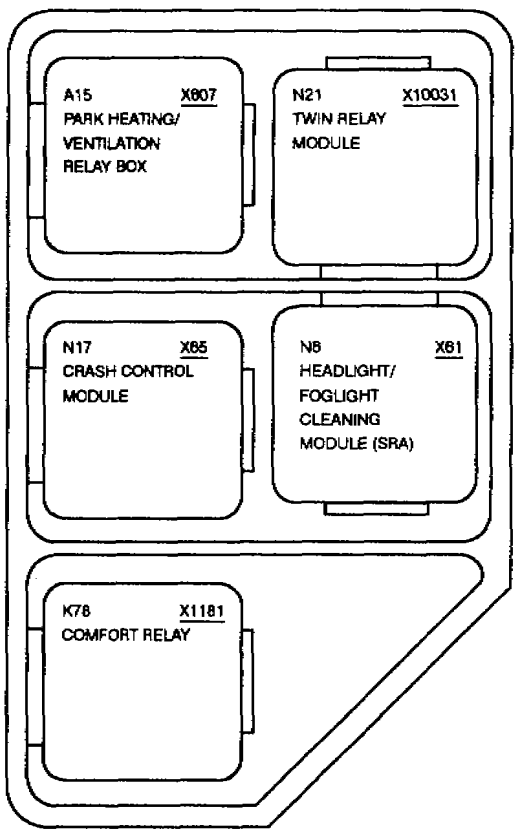
POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX



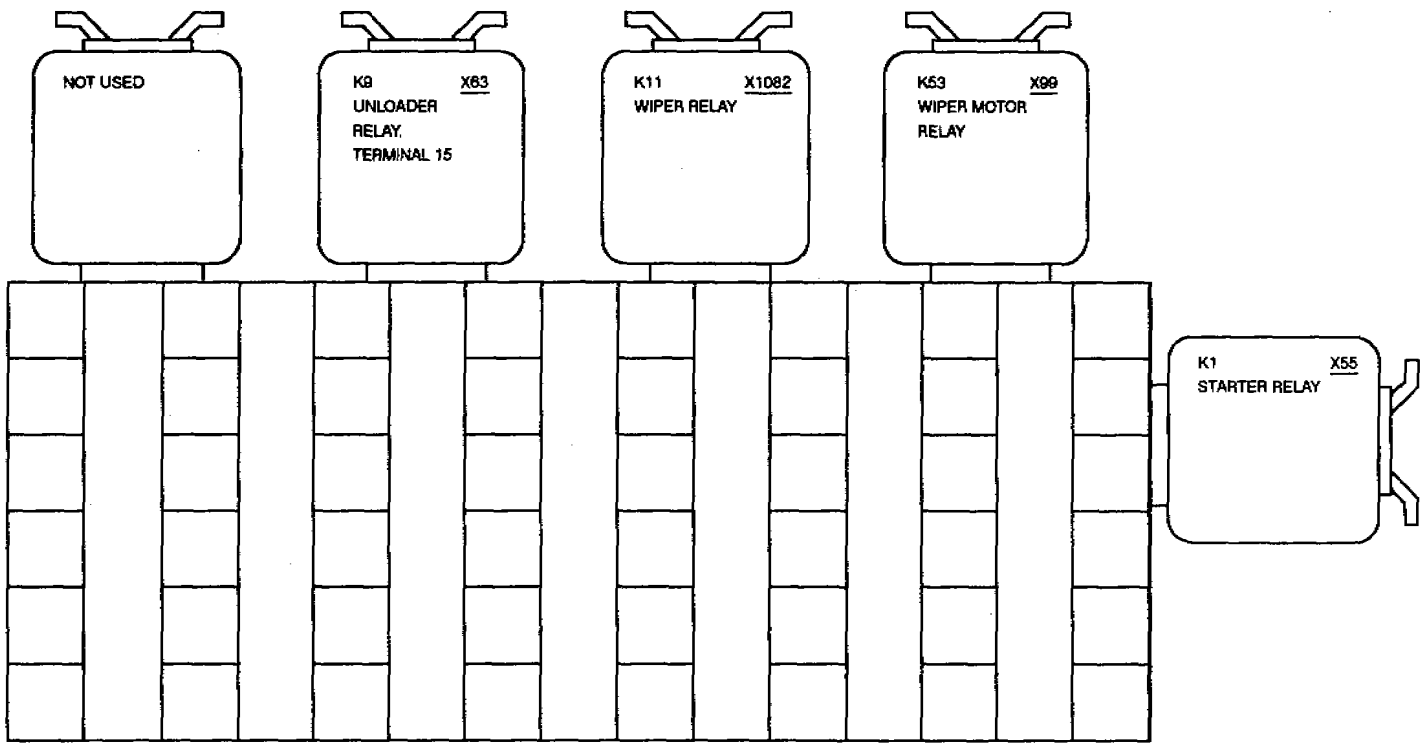
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



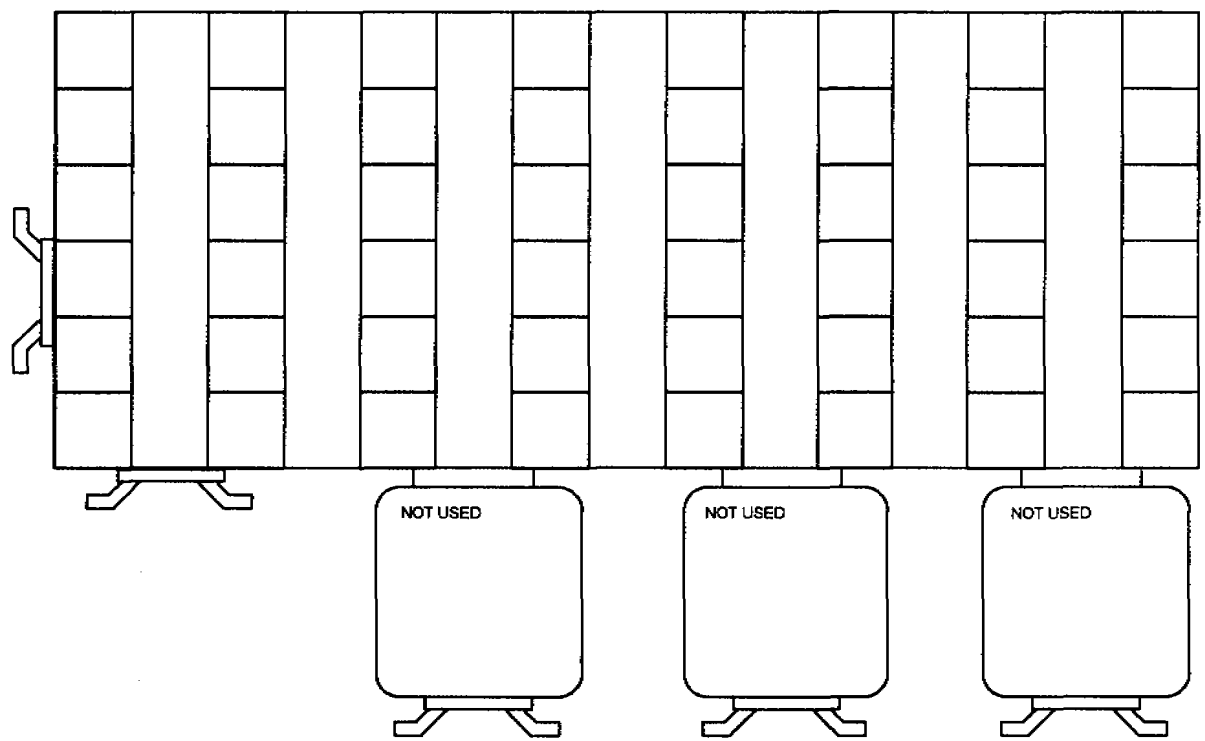
POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A		30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A		30A	5A	5A	10A	15A		30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																●		●										●	
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																●		●										●	
1230.0	CHARGING SYSTEM																													
1240.0	START																												●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																													
3450.0	SLIP CONTROL (ABS)										●											●						●		
5116.0	POWER MIRRORS																								●					
5126.2	CENTRAL LOCKING MODULE II (ZVM II)							●																						
5133.1	POWER WINDOWS (FH)														●															
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER SUN ROOF (SHD)	●																												
6133.0	HORN								●																					
6160.1	WIPER/WASHER MODULE (WWM)																													
6167.1	HEADLIGHT WASHER (SRA)			●																										
6169.0	WINDSHIELD WASHER JET HEATERS																								●					
6211.0	INSTRUMENT CLUSTER																							●				●		
6213.2	MULTI-FUNCTION CLOCK																							●				●		

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A		30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A		30A	15A	5A	10A	15A		30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6300.0	LIGHT SWITCH DETAILS																						●			●				
6312.0	HEADLIGHTS/ FOG LIGHTS											●	●			●								●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL LIGHTS																						●							
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS																													
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER																													
6350.0	CRASH CONTROL MODULE																													
6412.5	PARK VENTILATION WITH IHKR																				●									
6424.0	REAR WINDOW DEFOGGER						●																	●						
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)																●				●			●						
6510.0	RADIO/ CD PLAYER (PROVISIONS)									●																				
6510.1	RADIO/HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI-THEFT SYSTEM (ALPINE)								●																					
6581.2	ON-BOARD COMPUTER (BC V)											●	●											●				●		

FUSE CHART

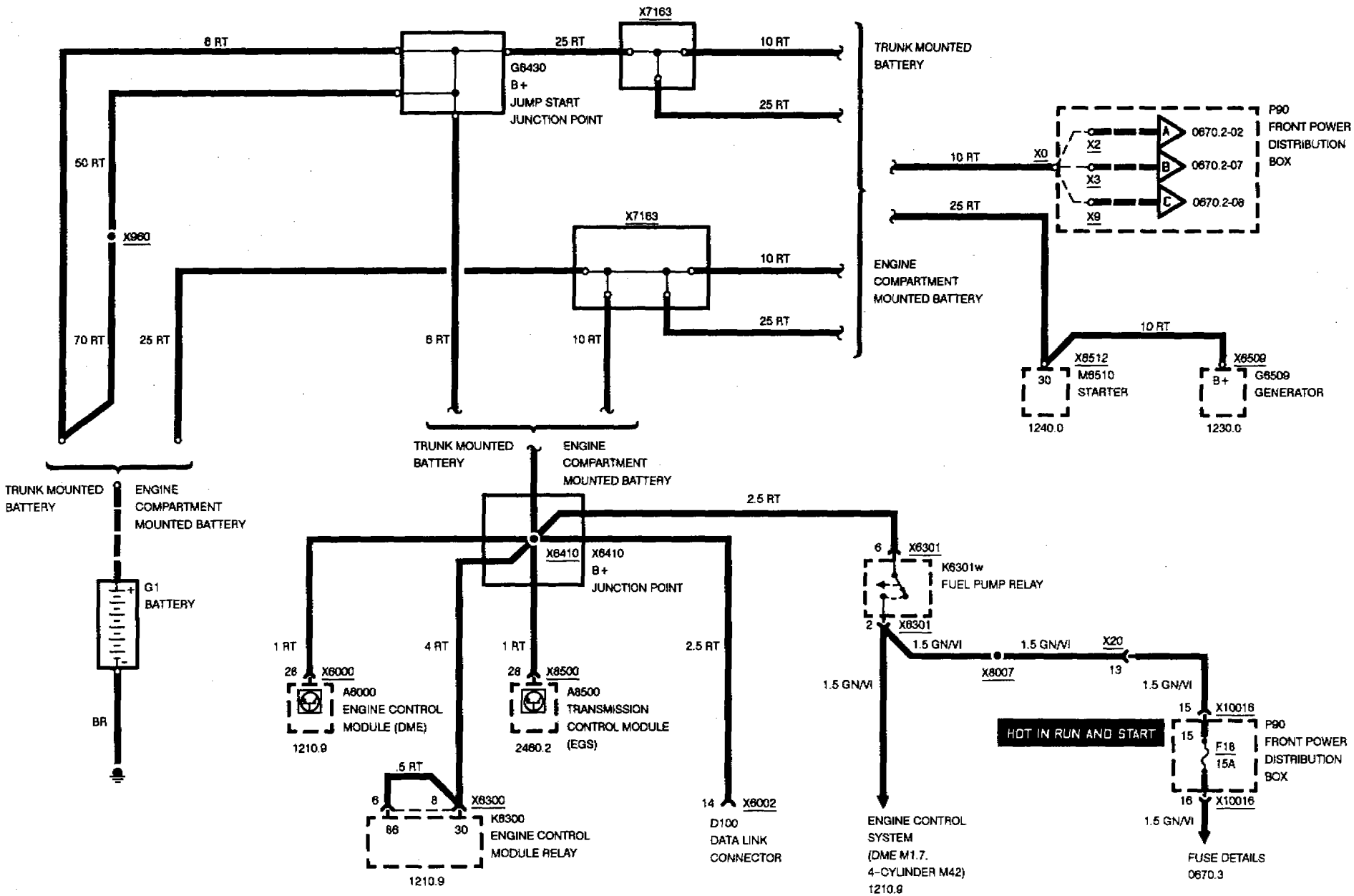
FUSE 30 TO 46

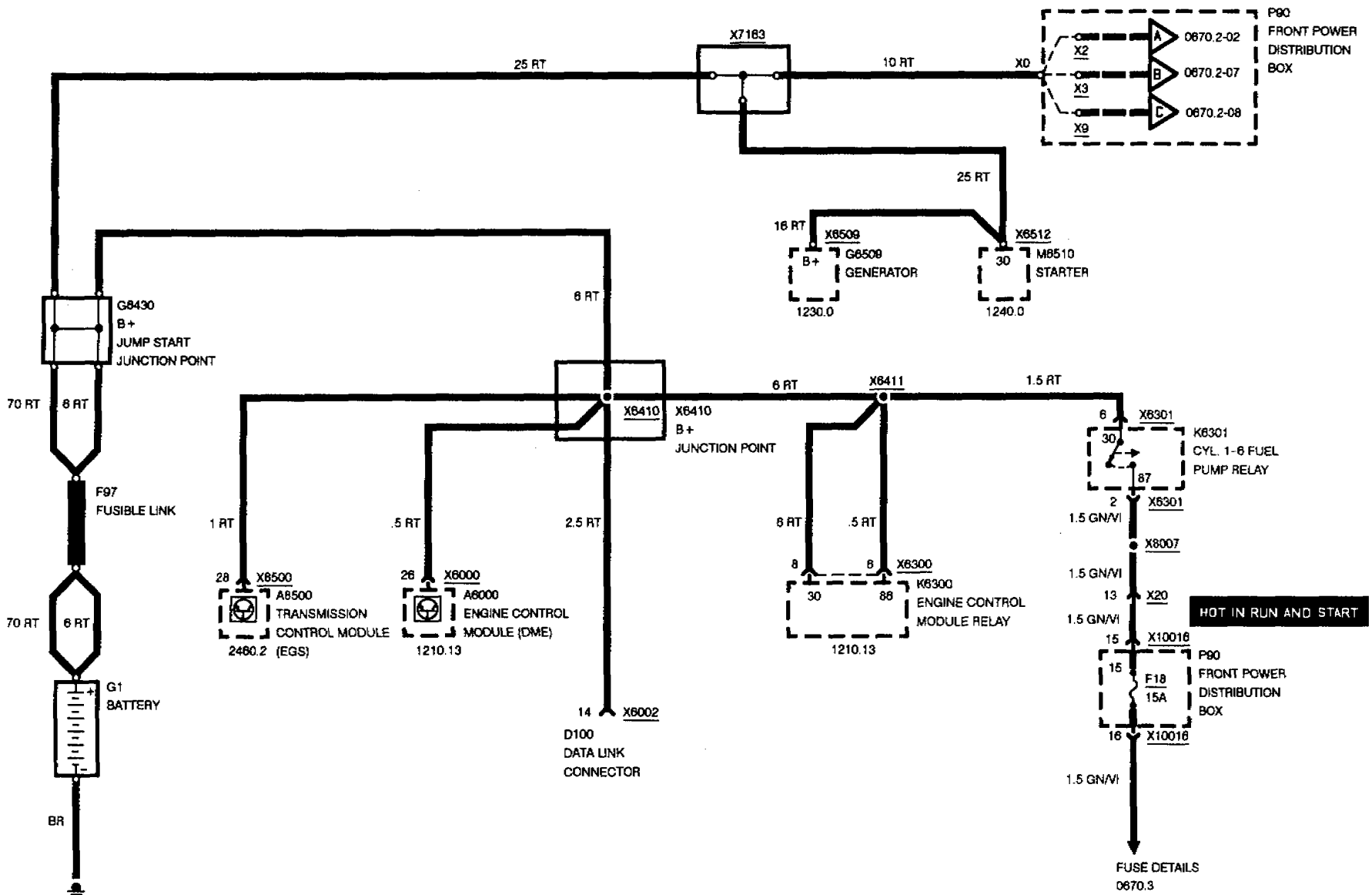
		FUSE NUMBER															
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																	●
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)													●	●			
1230.0	CHARGING SYSTEM									●								●
1240.0	START																	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)														●			
3450.0	SLIP CONTROL (ABS)																	
5116.0	POWER MIRRORS																	
5126.2	CENTRAL LOCKING MODULE II (ZVM II)						●								●			
5133.1	POWER WINDOWS (FH)				●													
5200.0	POWER SEATS											●						
5203.0	HEATED SEATS																	
5410.1	POWER SUN ROOF (SHD)																	
6133.0	HORN																	
6160.1	WIPER/WASHER MODULE (WWM)							●	●							●	●	
6167.1	HEADLIGHT WASHER (SRA)																	
6169.0	WINDSHIELD WASHER JET HEATERS																	
6211.0	INSTRUMENT CLUSTER		●															●
6213.2	MULTI-FUNCTION CLOCK		●														●	●

FUSE CHART

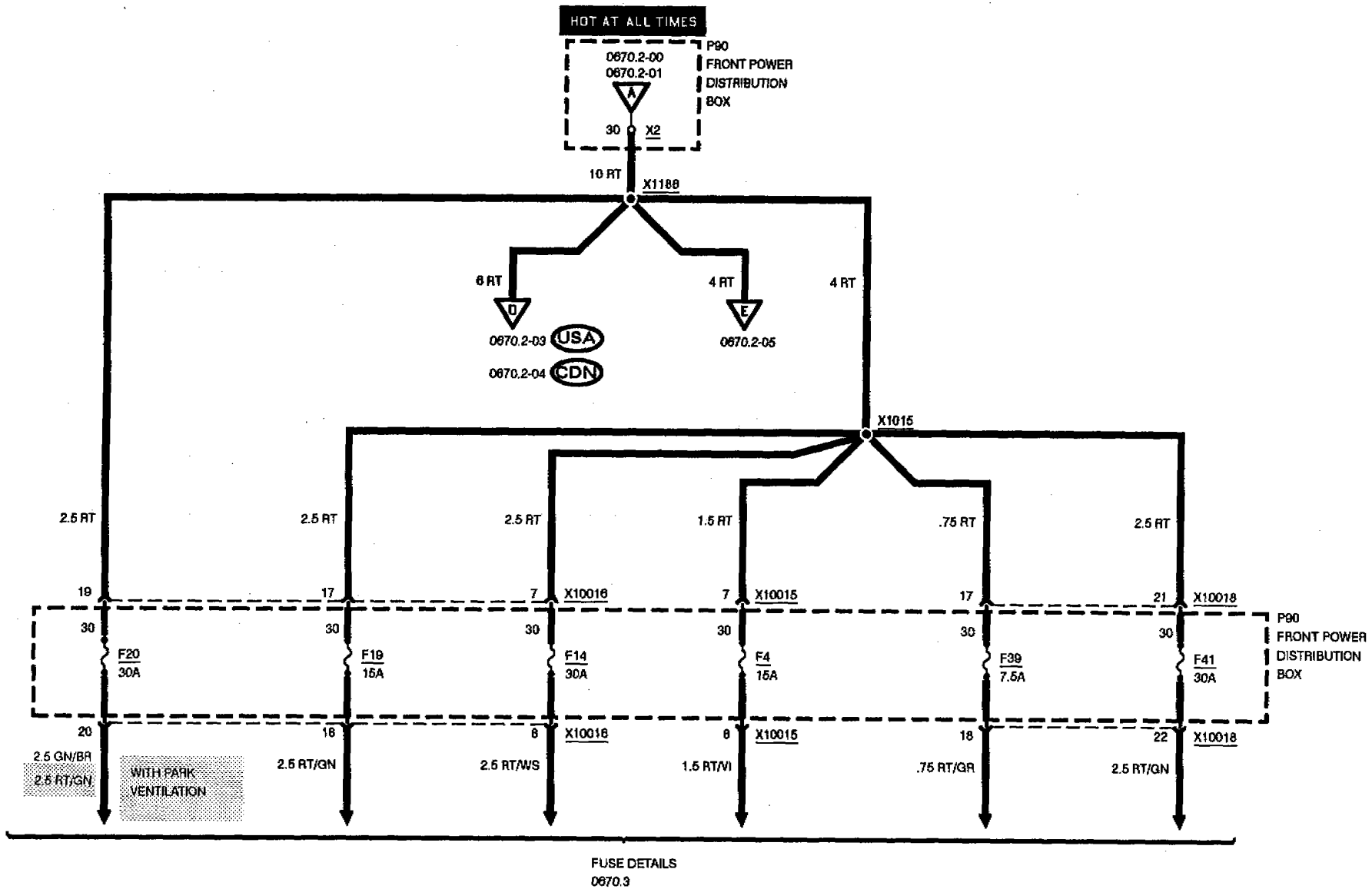
FUSE 30 TO 46

		FUSE NUMBER																
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A		5A	15A	7.5A	15A
6300.0	LIGHT SWITCH DETAILS				●				●									
6312.0	HEADLIGHTS/ FOG LIGHTS	●																
6313.0	TURN/HAZARD LIGHTS					●												
6314.0	PARK/TAIL LIGHTS				●				●									
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS				●				●									
6322.0	BACK UP LIGHTS																	
6325.0	BRAKE LIGHTS																	●
6330.3	INTERIOR LIGHTS				●										●			
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER			●	●				●							●		
6350.0	CRASH CONTROL MODULE					●												
6412.5	PARK VENTILATION WITH IHKR																	
6424.0	REAR WINDOW DEFOGGER																	
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)		●						●		●		●					
6510.0	RADIO/ CD PLAYER (PROVISIONS)															●		
6510.1	RADIO/HIFI															●		
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●			
6571.0	CRUISE CONTROL (TEMPOMAT)																	●
6574.2	ANTI-THEFT SYSTEM (ALPINE)															●		
6581.2	ON-BOARD COMPUTER (BC V)		●		●				●								●	●


X7163
8 RT
25 RT
10 RT
25 RT
G6430
B+
JUMP START
JUNCTION POINT
TRUNK MOUNTED
BATTERY
50 RT
X960
70 RT
25 RT
X7163
10 RT
25 RT
8 RT
10 RT
ENGINE
COMPARTMENT
MOUNTED BATTERY
P90
FRONT POWER
DISTRIBUTION
BOX
10 RT
X0
X2
X3
X9
A
B
C
0670.2-02
0670.2-07
0670.2-08
25 RT
10 RT
X6512
30
M6510
STARTER
1240.0
X6509
B+
G6509
GENERATOR
1230.0
TRUNK MOUNTED
BATTERY
ENGINE
COMPARTMENT
MOUNTED BATTERY
G1
BATTERY
BR
TRUNK MOUNTED
BATTERY
ENGINE
COMPARTMENT
MOUNTED BATTERY
2.5 RT
X6410
X6410
B+
JUNCTION POINT
1 RT
4 RT
1 RT
2.5 RT
28
X6000
A8000
ENGINE CONTROL
MODULE (DME)
1210.9
28
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
2460.2
.5 RT
6
8
X6300
66
30
K6300
ENGINE CONTROL
MODULE RELAY
1210.9
14
X6002
D100
DATA LINK
CONNECTOR
6
X6301
K6301w
FUEL PUMP RELAY
2
X6301
1.5 GN/VI
1.5 GN/VI
X20
X8007
13
1.5 GN/VI
1.5 GN/VI
ENGINE CONTROL
SYSTEM
(DME M1.7.
4-CYLINDER M42)
1210.9
HOT IN RUN AND START
15
X10016
15
F16
15A
16
X10016
P90
FRONT POWER
DISTRIBUTION
BOX
1.5 GN/VI
FUSE DETAILS
0670.3

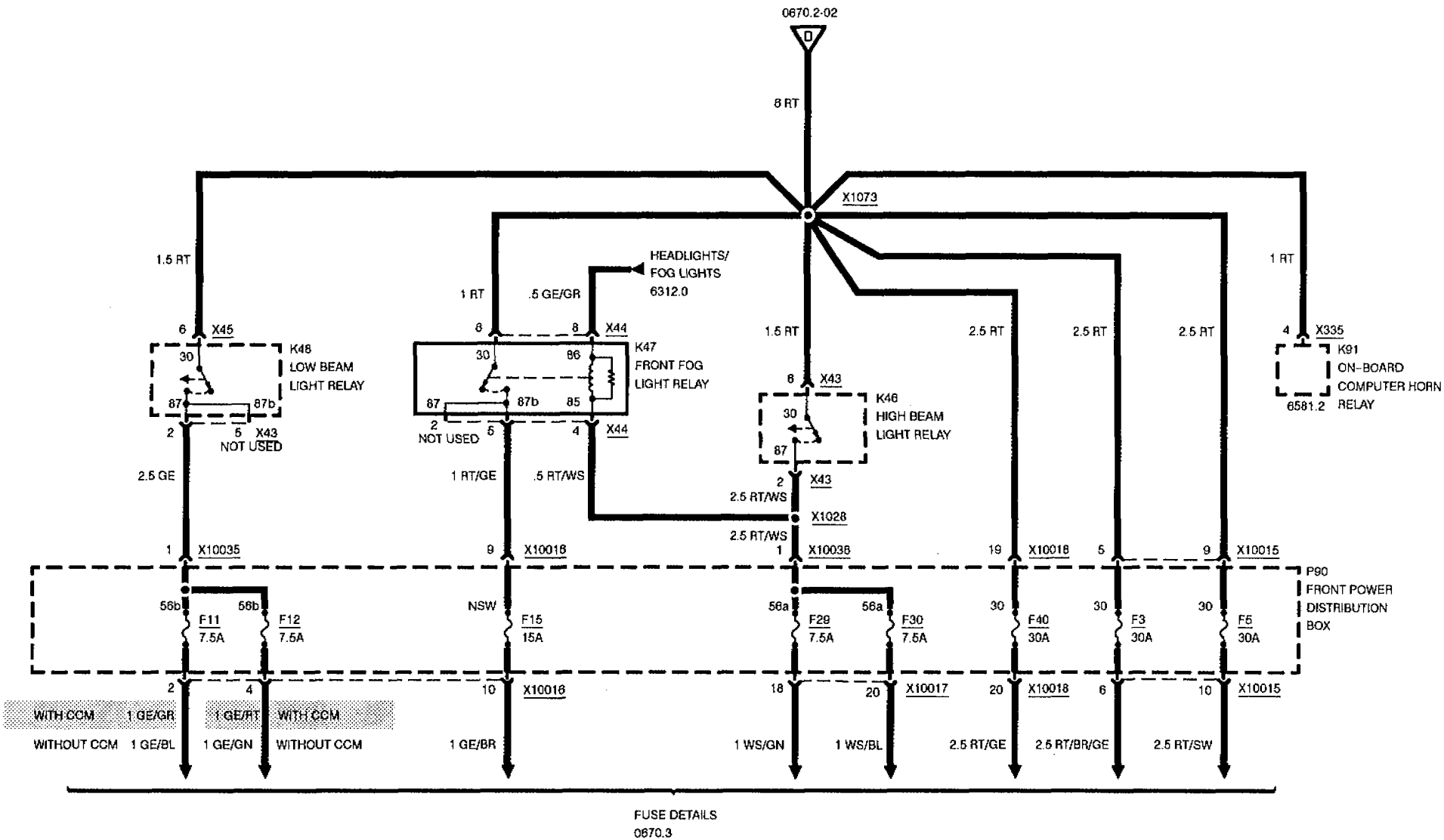

X7163
25 RT
10 RT
X0
P90
FRONT POWER
DISTRIBUTION
BOX
X2
X3
X9
A
B
C
0670.2-02
0670.2-07
0670.2-08
25 RT
16 RT
X6509
B+
G6509
GENERATOR
1230.0
X6512
30
M8510
STARTER
1240.0
G8430
B+
JUMP START
JUNCTION POINT
6 RT
70 RT
8 RT
F97
FUSIBLE LINK
70 RT
6 RT
G1
BATTERY
BR
X6410
X6410
B+
JUNCTION POINT
6 RT
X6411
1.5 RT
1 RT
.5 RT
2.5 RT
28
X6500
A6500
TRANSMISSION
CONTROL MODULE
2460.2 (EGS)
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.13
14
X6002
D100
DATA LINK
CONNECTOR
8 RT
.5 RT
8
6
X6300
30
88
K6300
ENGINE CONTROL
MODULE RELAY
1210.13
6
X6301
30
87
K6301
CYL. 1-6 FUEL
PUMP RELAY
2
X6301
1.5 GN/VI
X8007
1.5 GN/VI
13
X20
HOT IN RUN AND START
1.5 GN/VI
15
X10016
15
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
16
X10016
1.5 GN/VI
FUSE DETAILS
0670.3

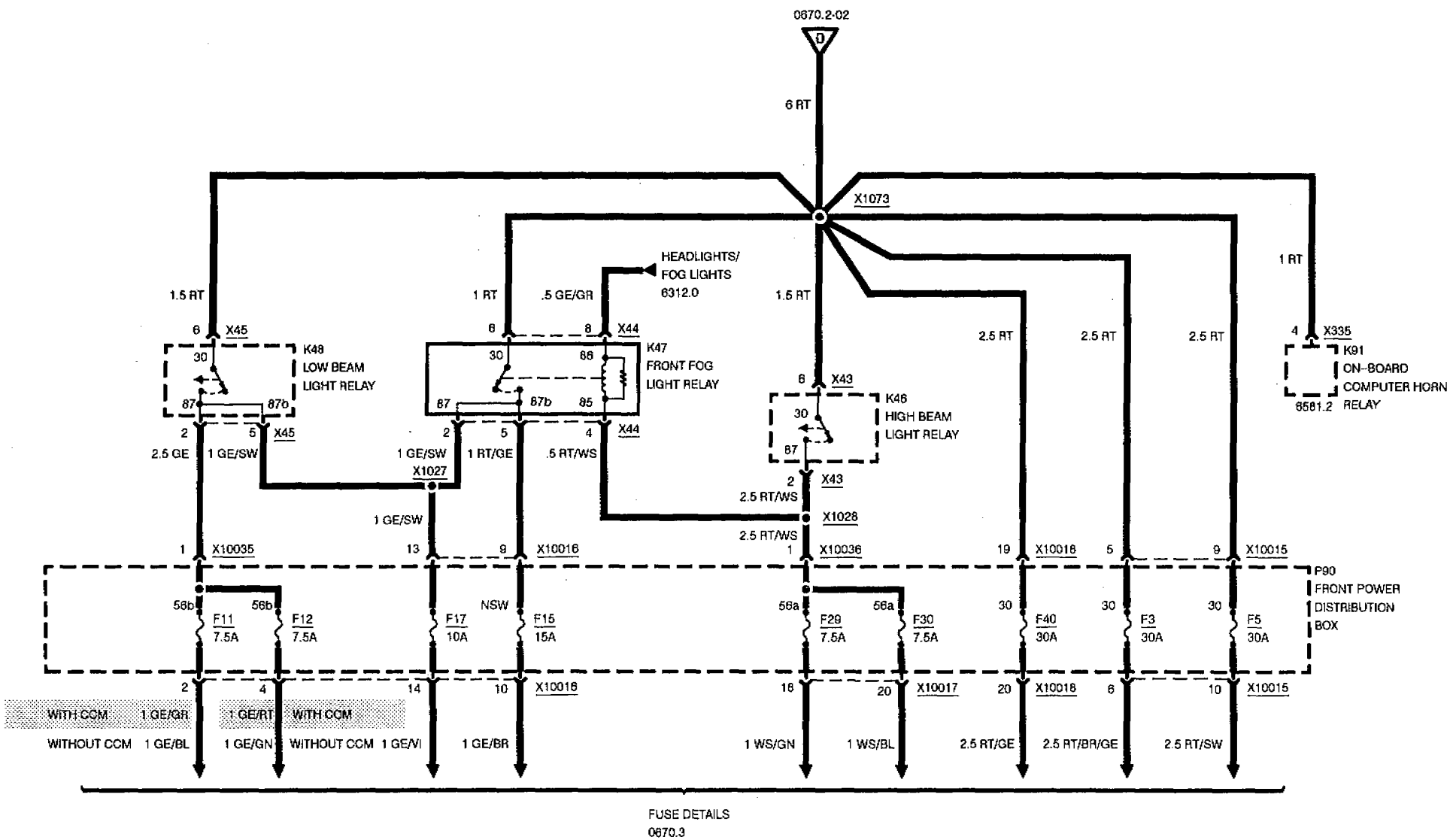
POWER DISTRIBUTION



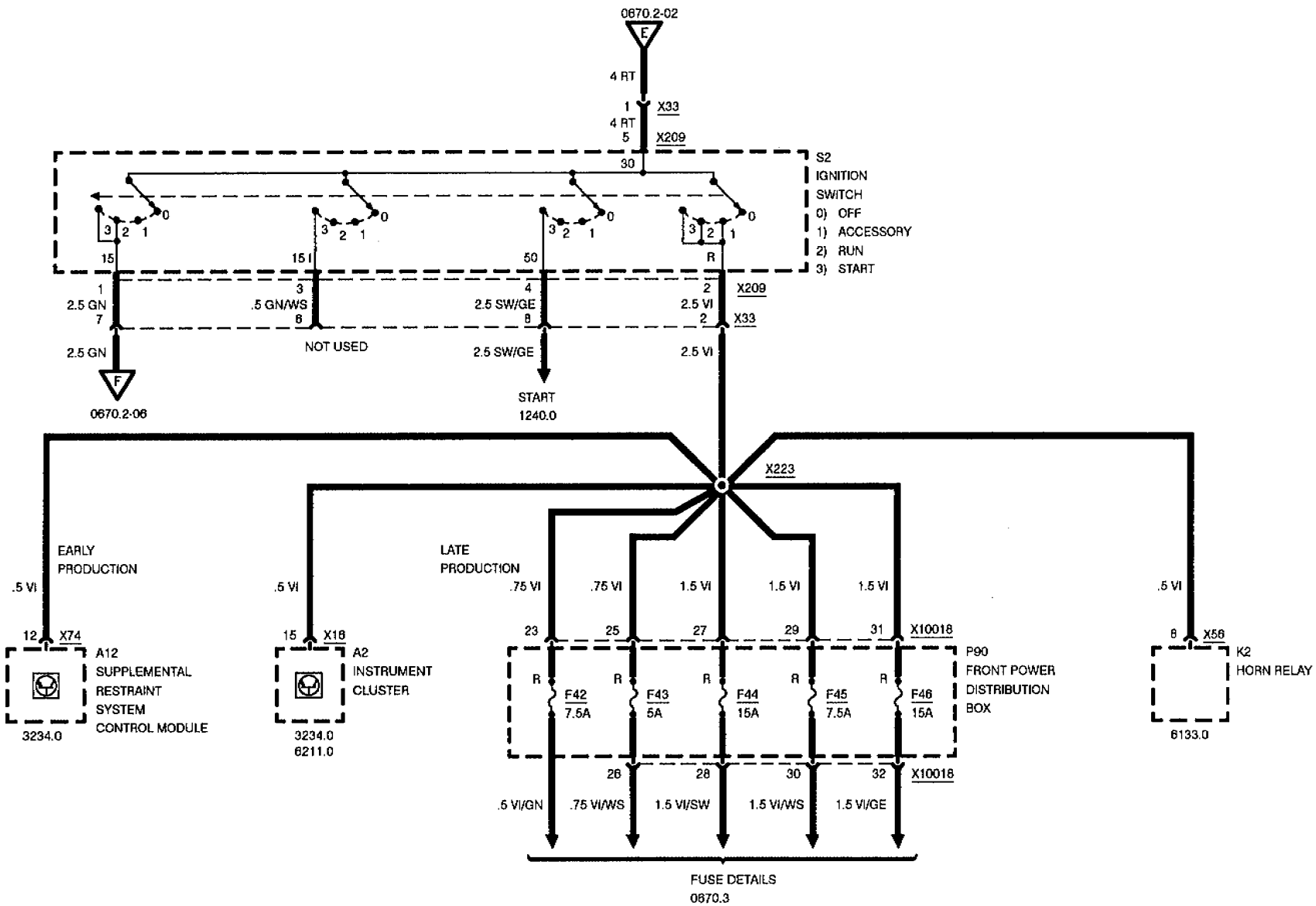
POWER DISTRIBUTION

USA

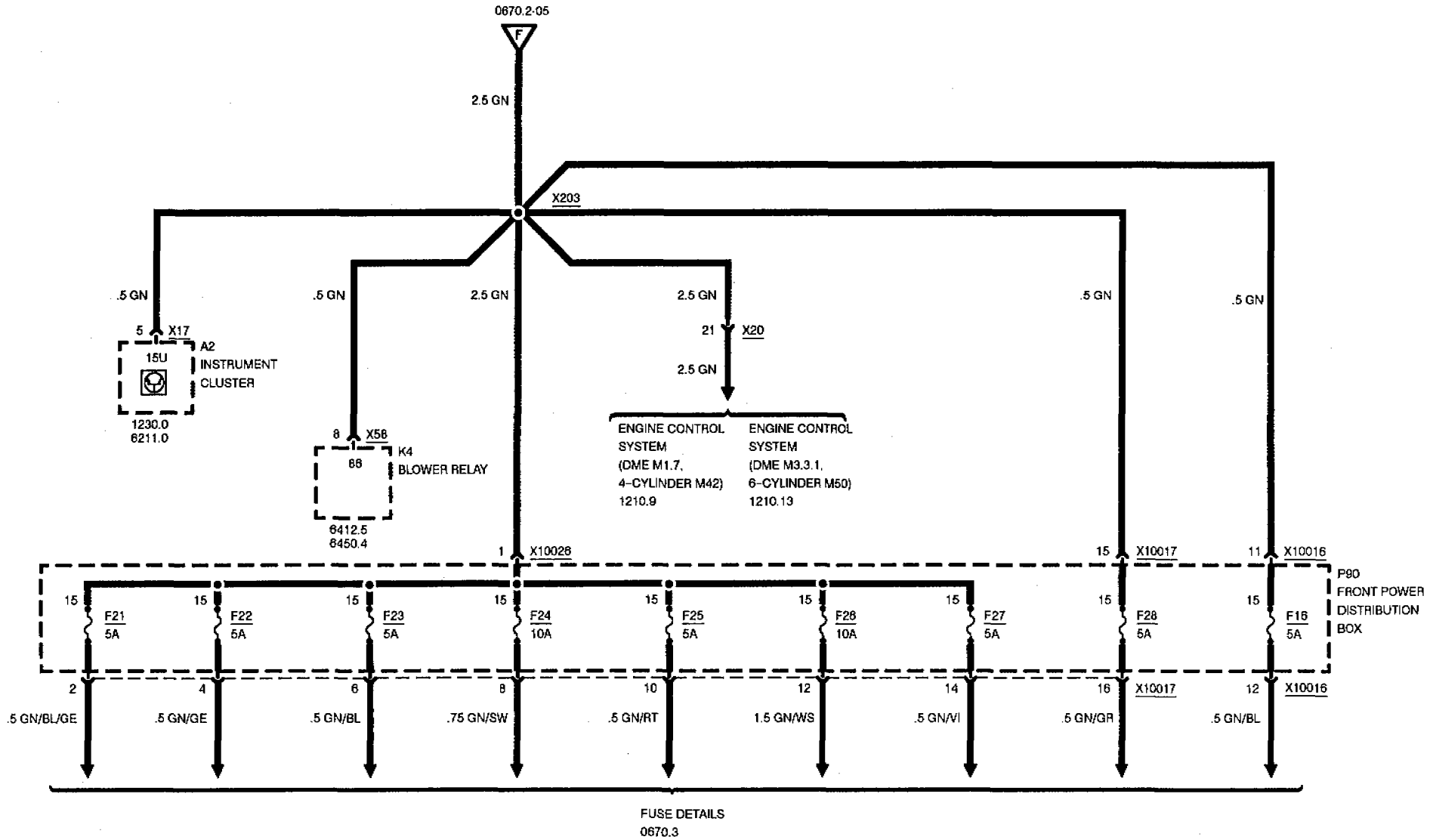



0670.2-02
D
6 RT
X1073
1.5 RT
1 RT
.5 GE/GR
HEADLIGHTS/
FOG LIGHTS
6312.0
1.5 RT
1 RT
2.5 RT
2.5 RT
2.5 RT
6 X45
30
87
87b
K48
LOW BEAM
LIGHT RELAY
2 2.5 GE
5 1 GE/SW
X45
6 X44
8 X44
30
86
87
87b
85
K47
FRONT FOG
LIGHT RELAY
2 1 GE/SW
5 1 RT/GE
4 .5 RT/WS
X44
X1027
6 X43
30
87
K46
HIGH BEAM
LIGHT RELAY
2 2.5 RT/WS
X43
X1028
4 X335
K91
ON-BOARD
COMPUTER HORN
6581.2 RELAY
1 GE/SW
2.5 RT/WS
1 X10035
13
9 X10016
1 X10036
19 X10018
5
9 X10015
P90
FRONT POWER
DISTRIBUTION
BOX
56b F11 7.5A
56b F12 7.5A
NSW F17 10A
F15 15A
56a F29 7.5A
56a F30 7.5A
30 F40 30A
30 F3 30A
30 F5 30A
2
4
14
10 X10018
16
20 X10017
20 X10018
6
10 X10015
WITH CCM 1 GE/GR
WITHOUT CCM 1 GE/BL
1 GE/RT
1 GE/GN
WITH CCM
WITHOUT CCM 1 GE/VI
1 GE/BR
1 WS/GN
1 WS/BL
2.5 RT/GE
2.5 RT/BR/GE
2.5 RT/SW
FUSE DETAILS
0670.3

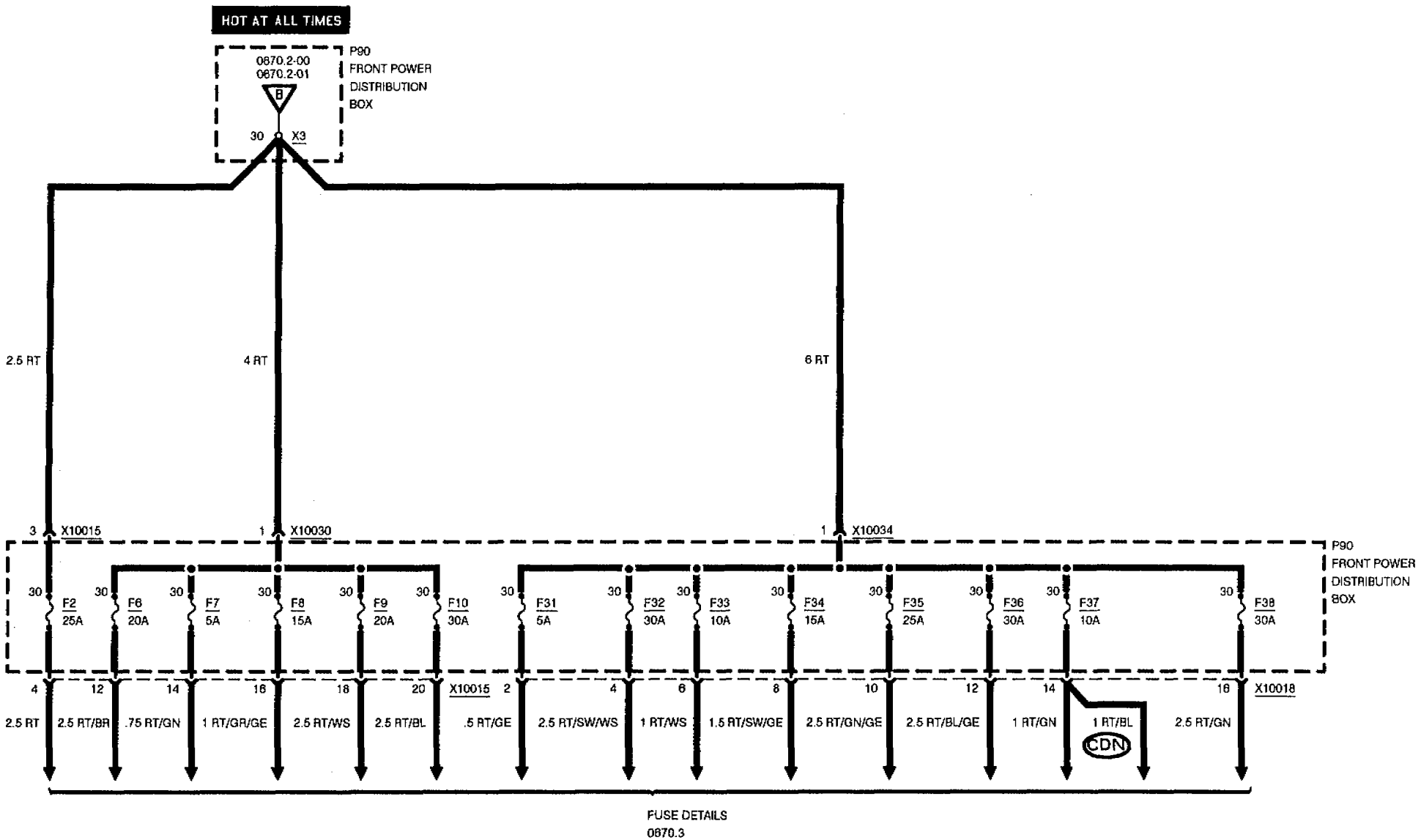
POWER DISTRIBUTION



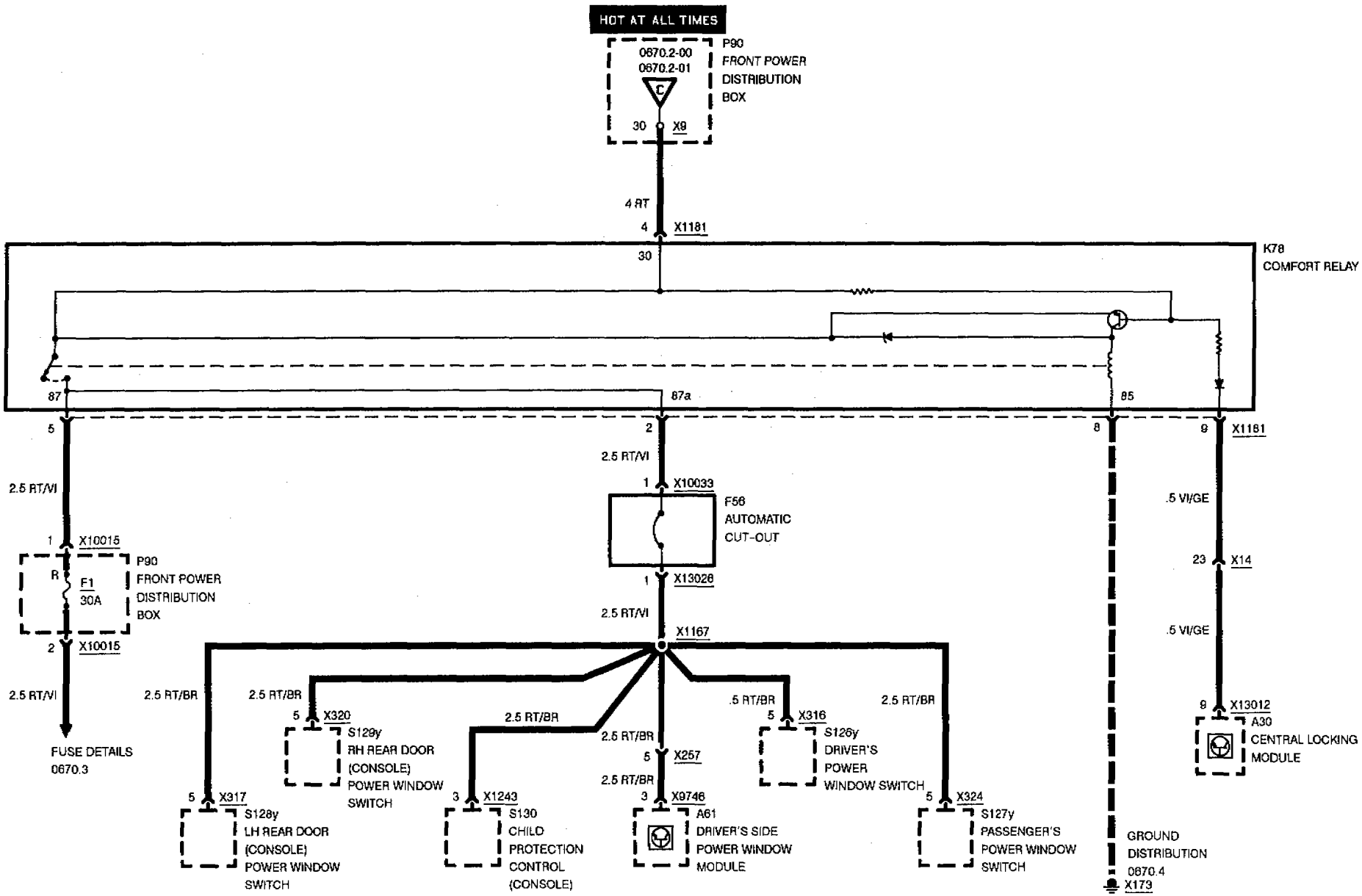
POWER DISTRIBUTION



POWER DISTRIBUTION

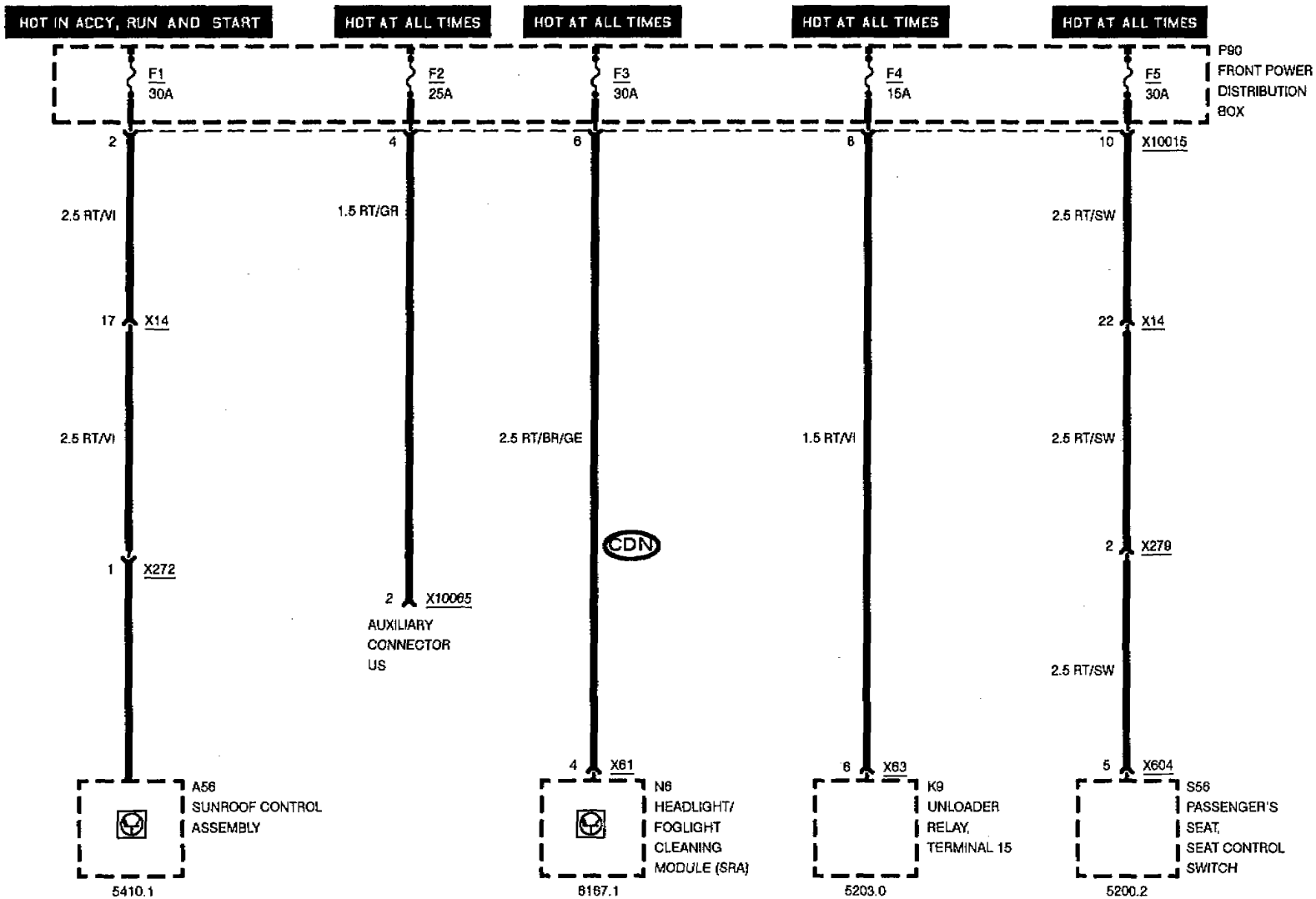


POWER DISTRIBUTION



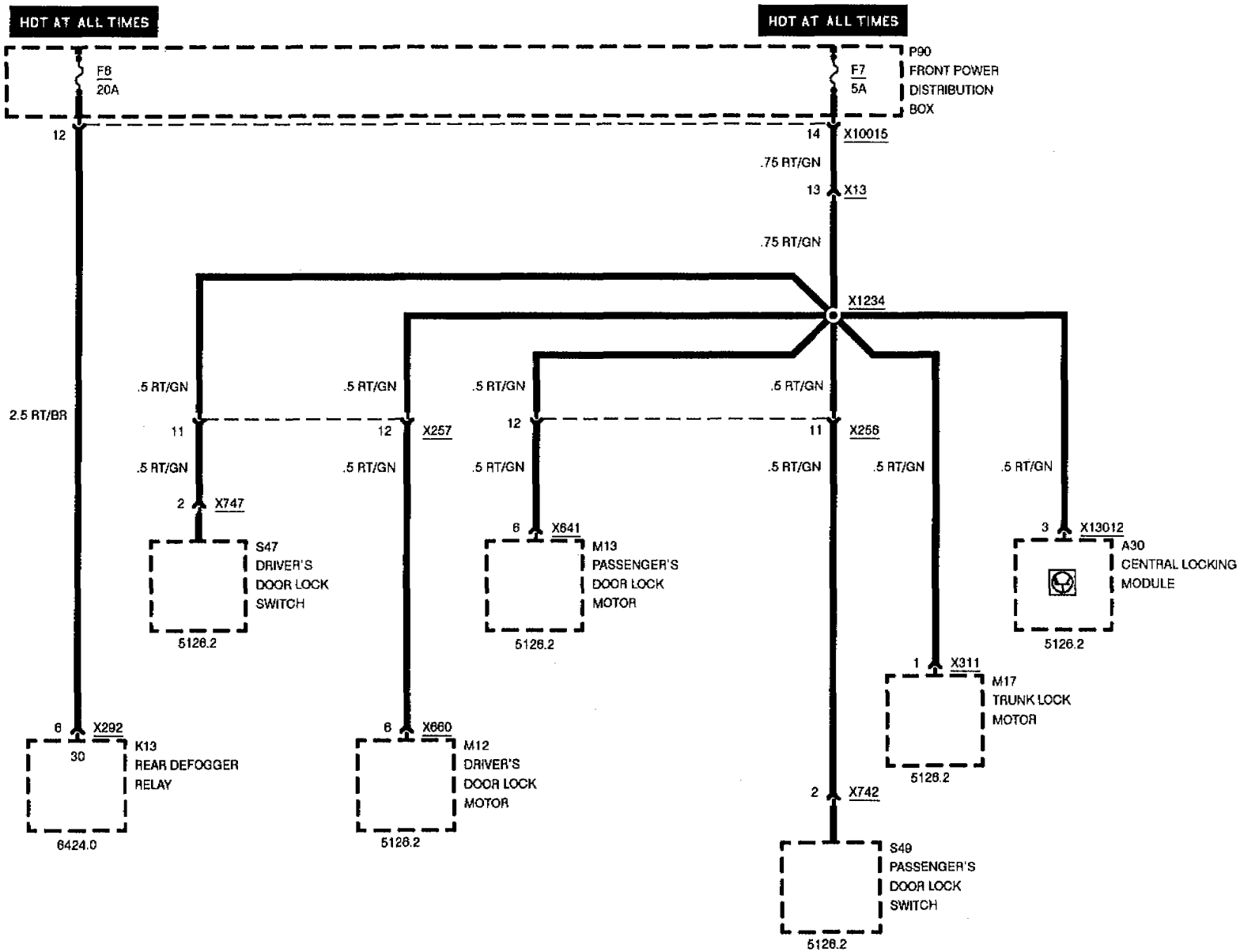
FUSE DETAILS

FUSES 1, 2, 3, 4, AND 5



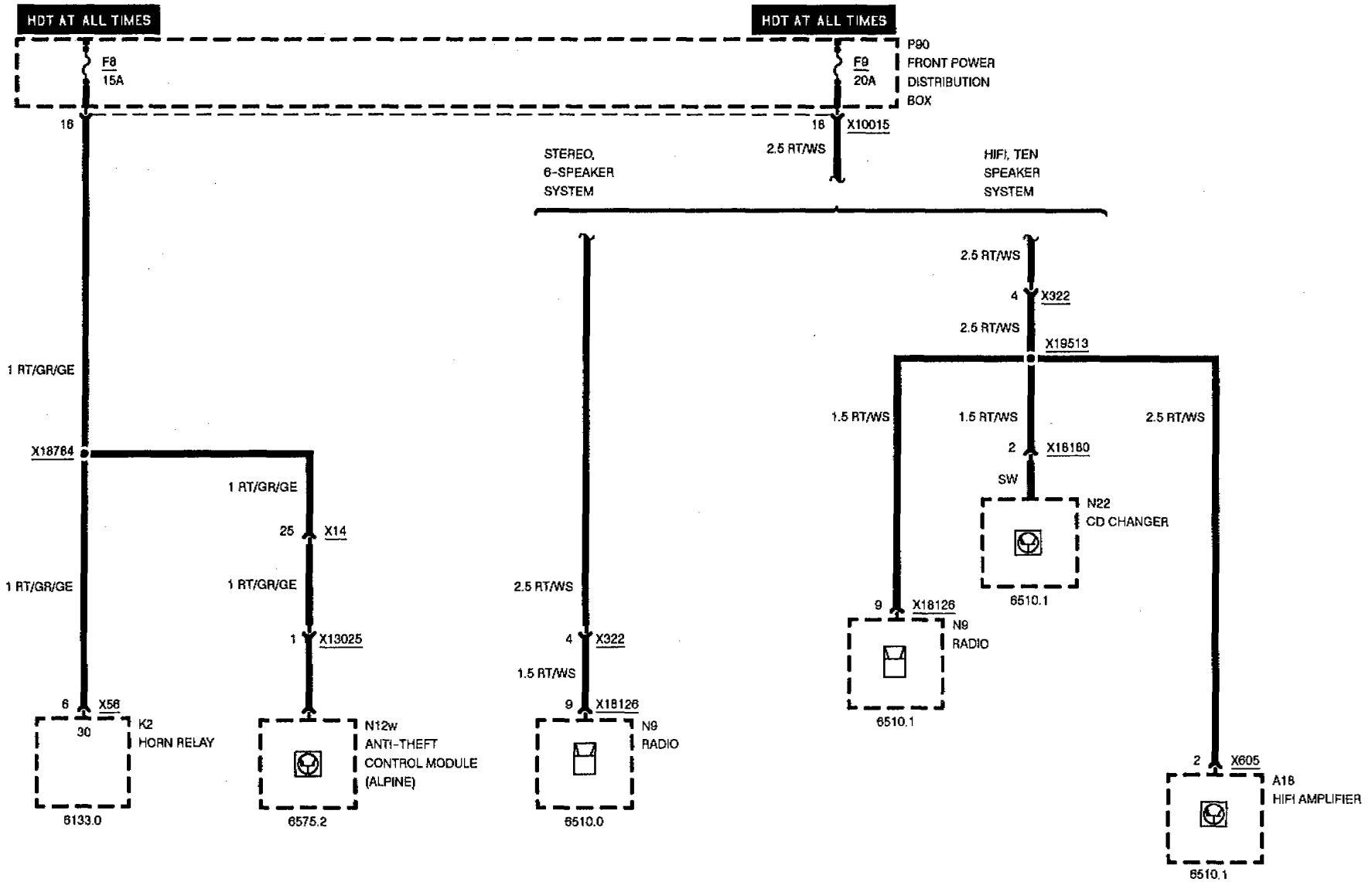
FUSE DETAILS

FUSES 6 AND 7



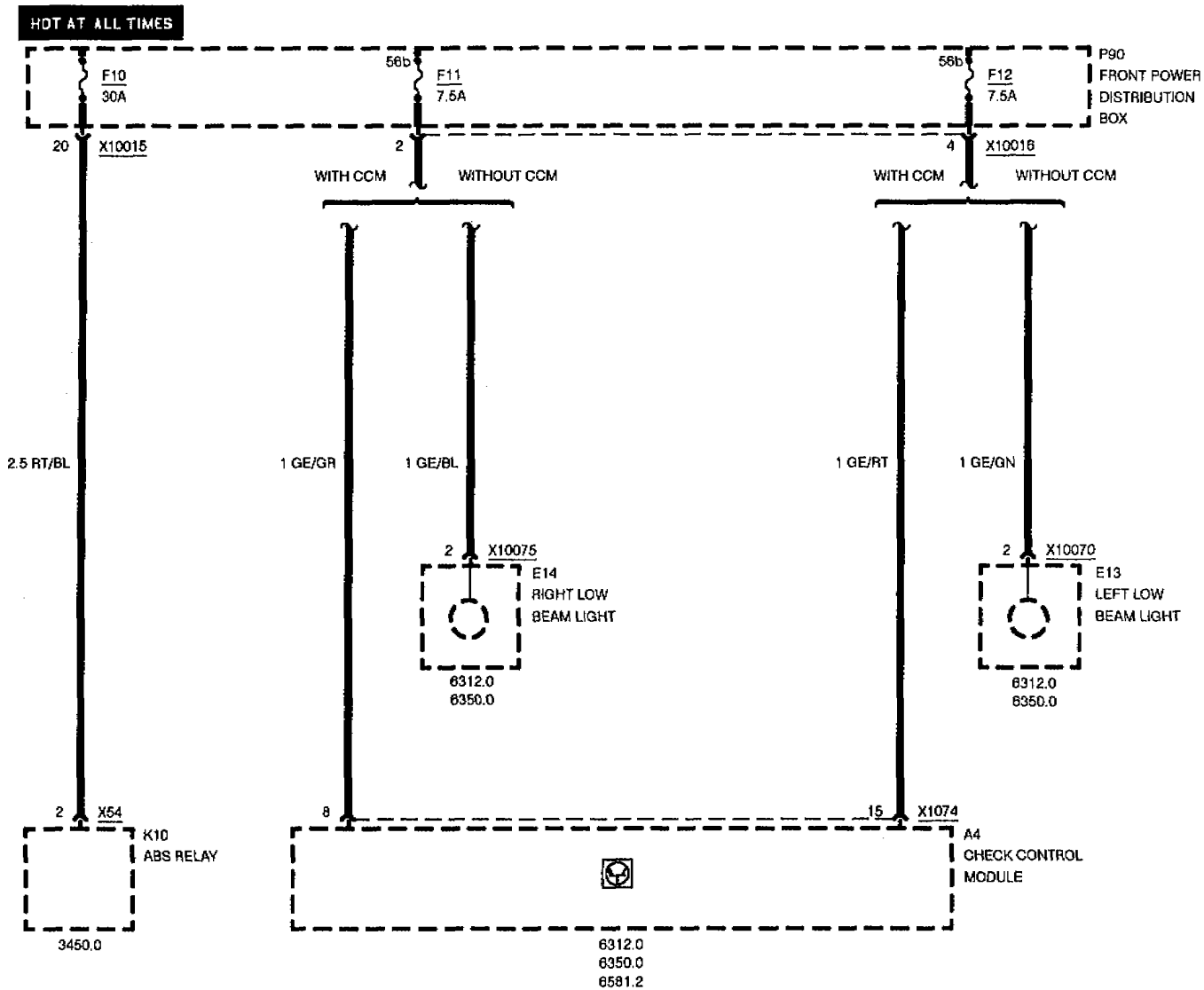
FUSE DETAILS

FUSES 8 AND 9



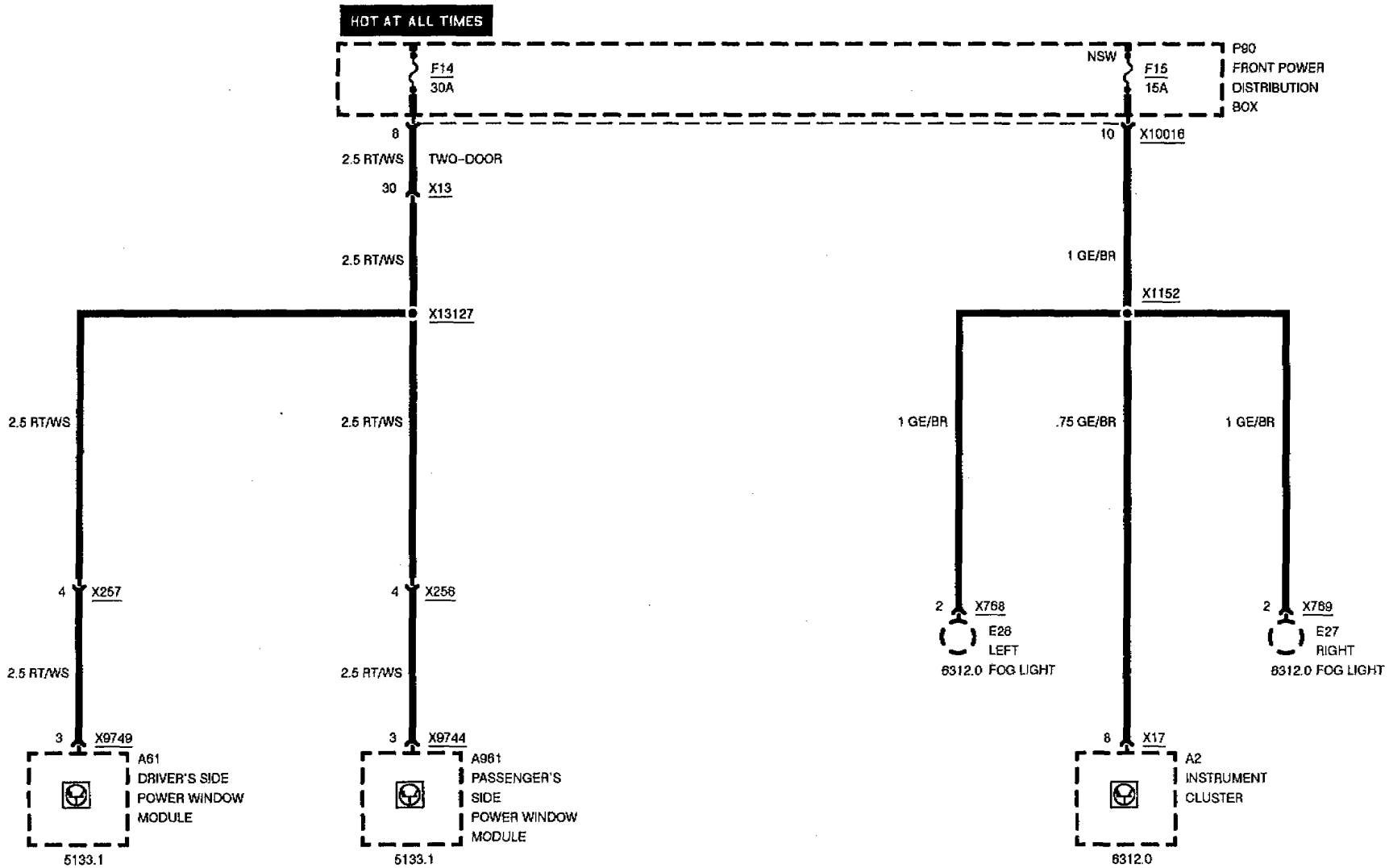
FUSE DETAILS

FUSES 10, 11, AND 12



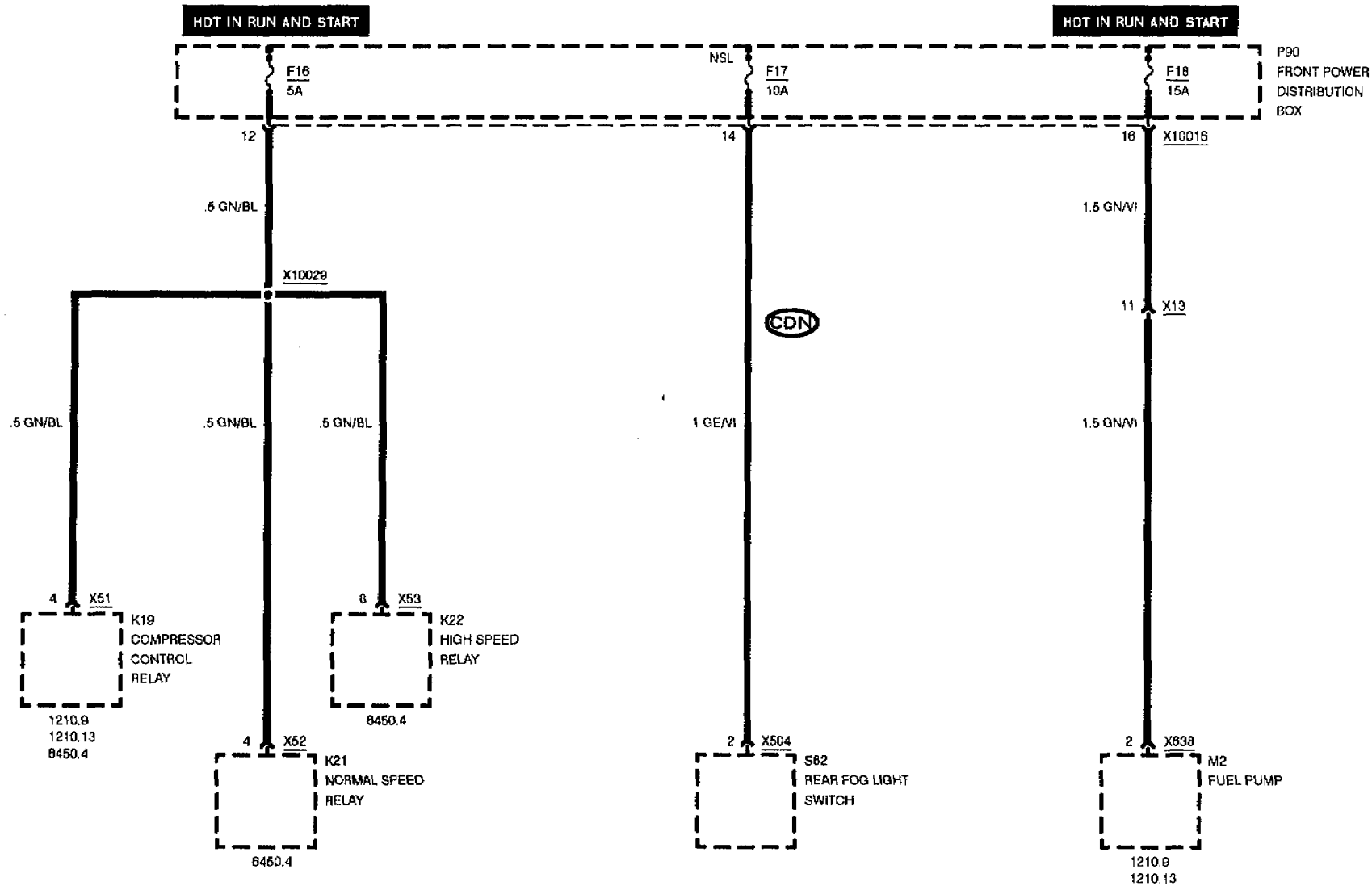
FUSE DETAILS

FUSES 14 AND 15



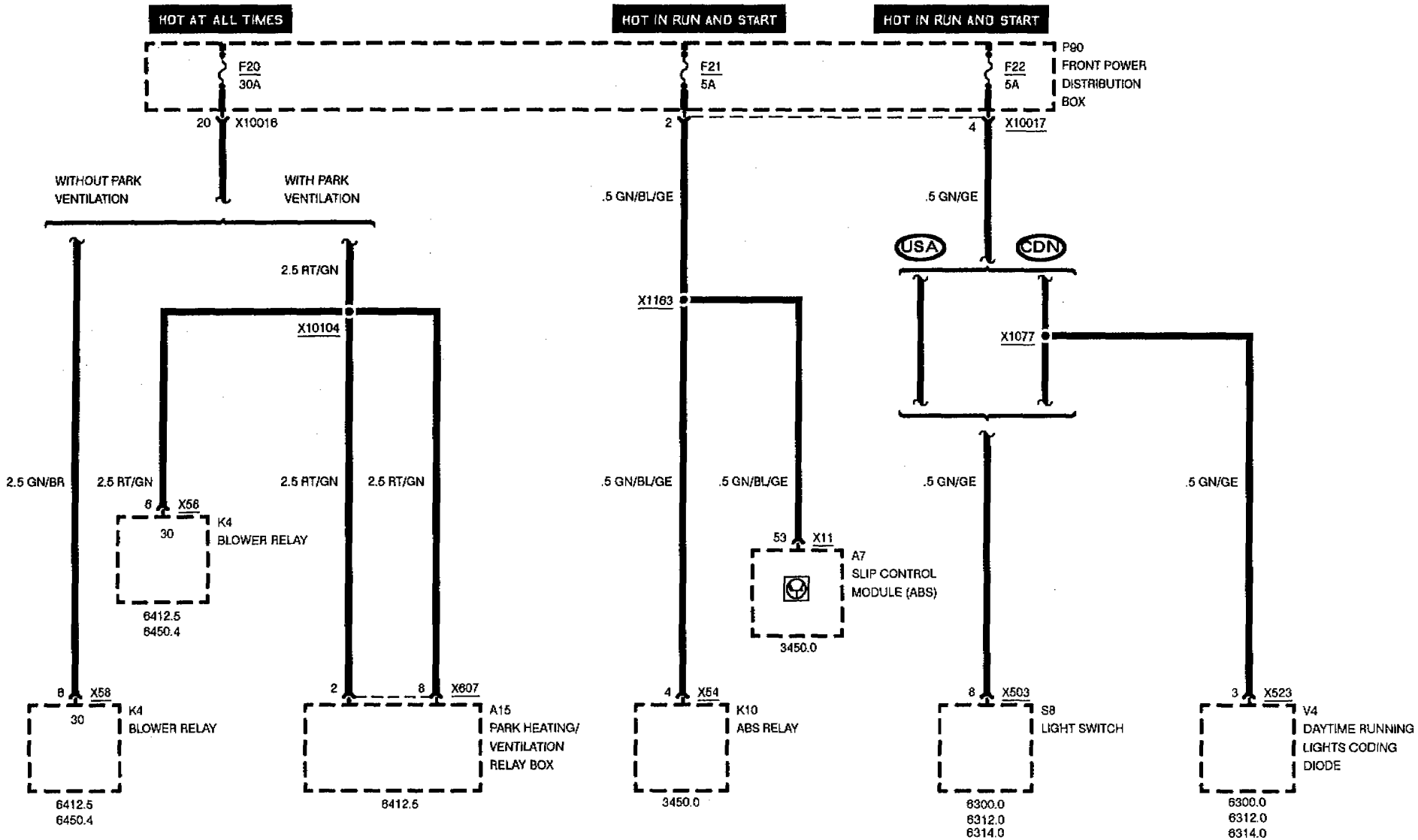
FUSE DETAILS

FUSES 16, 17, AND 18



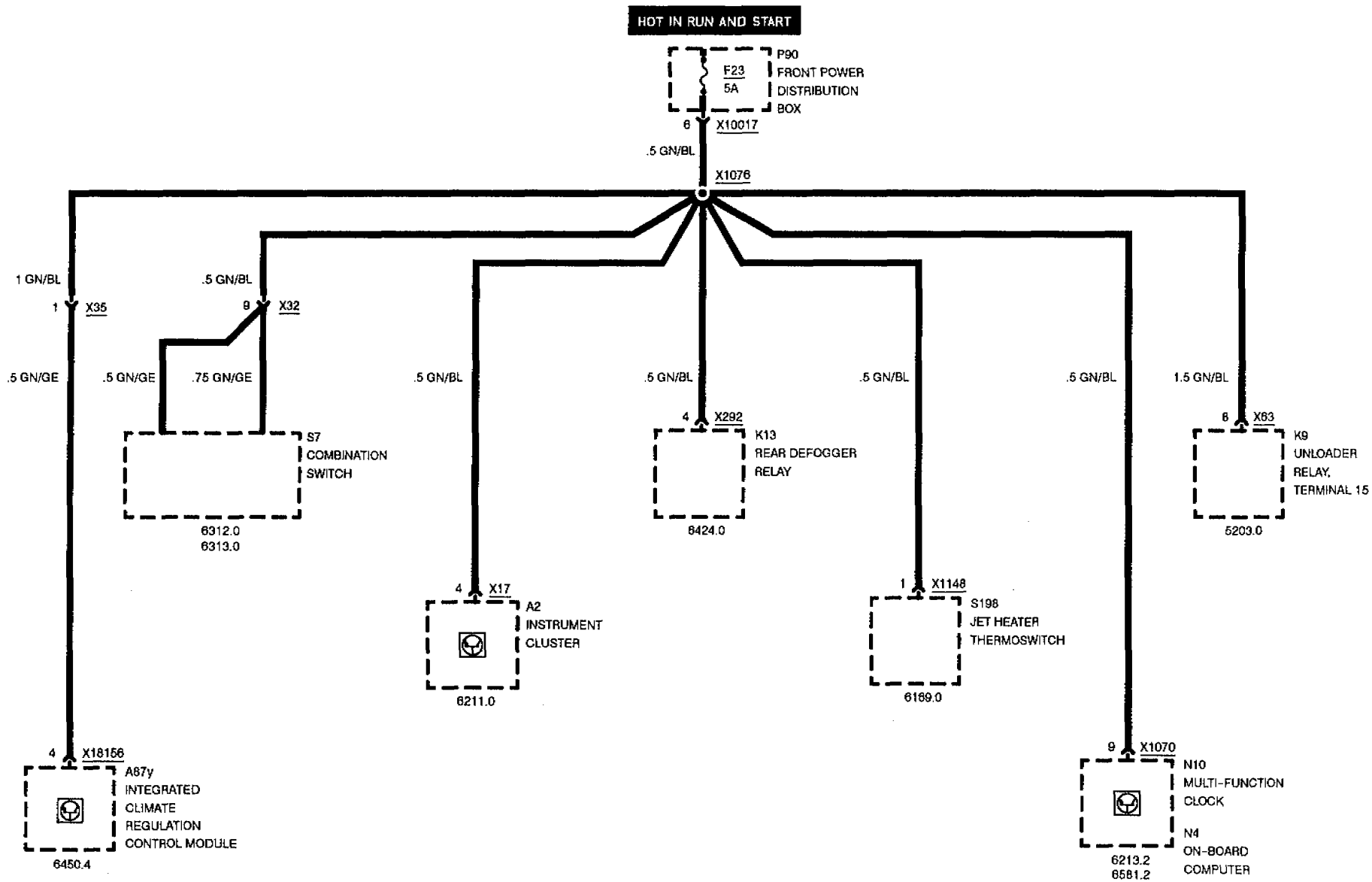
FUSE DETAILS

FUSES 20, 21, AND 22



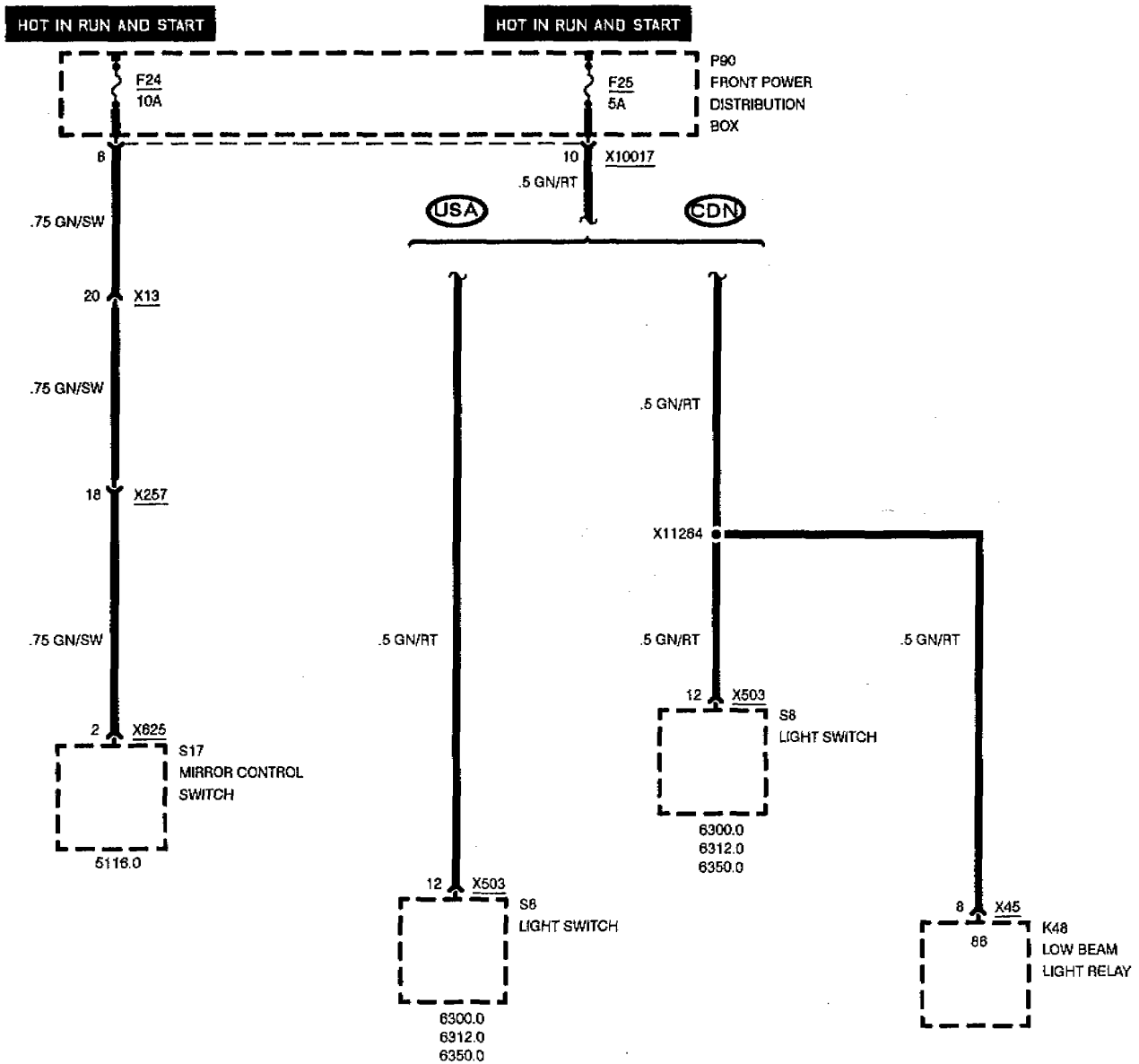
FUSE DETAILS

FUSE 23



FUSE DETAILS

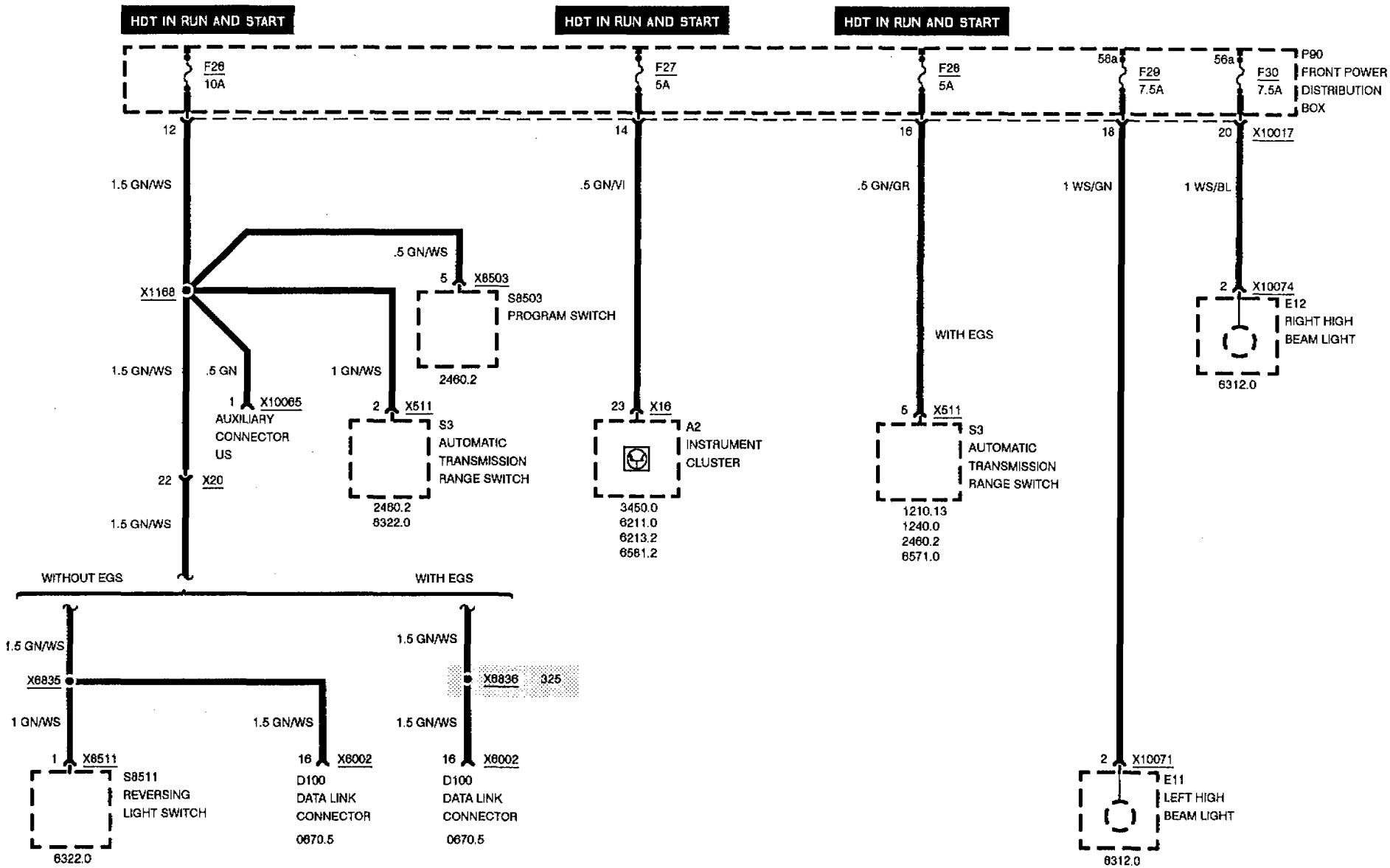
FUSES 24 AND 25



BMW 3

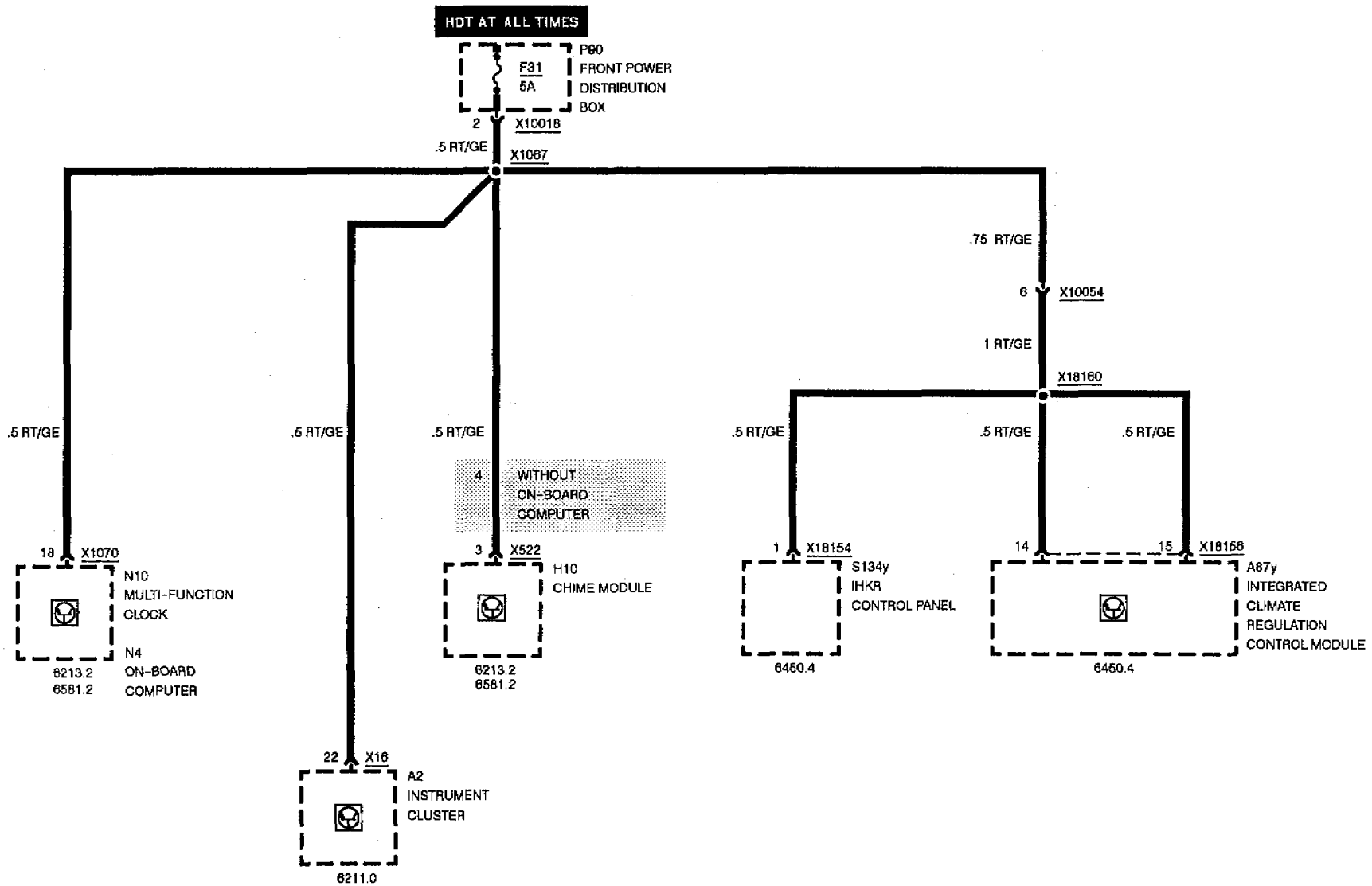
FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30



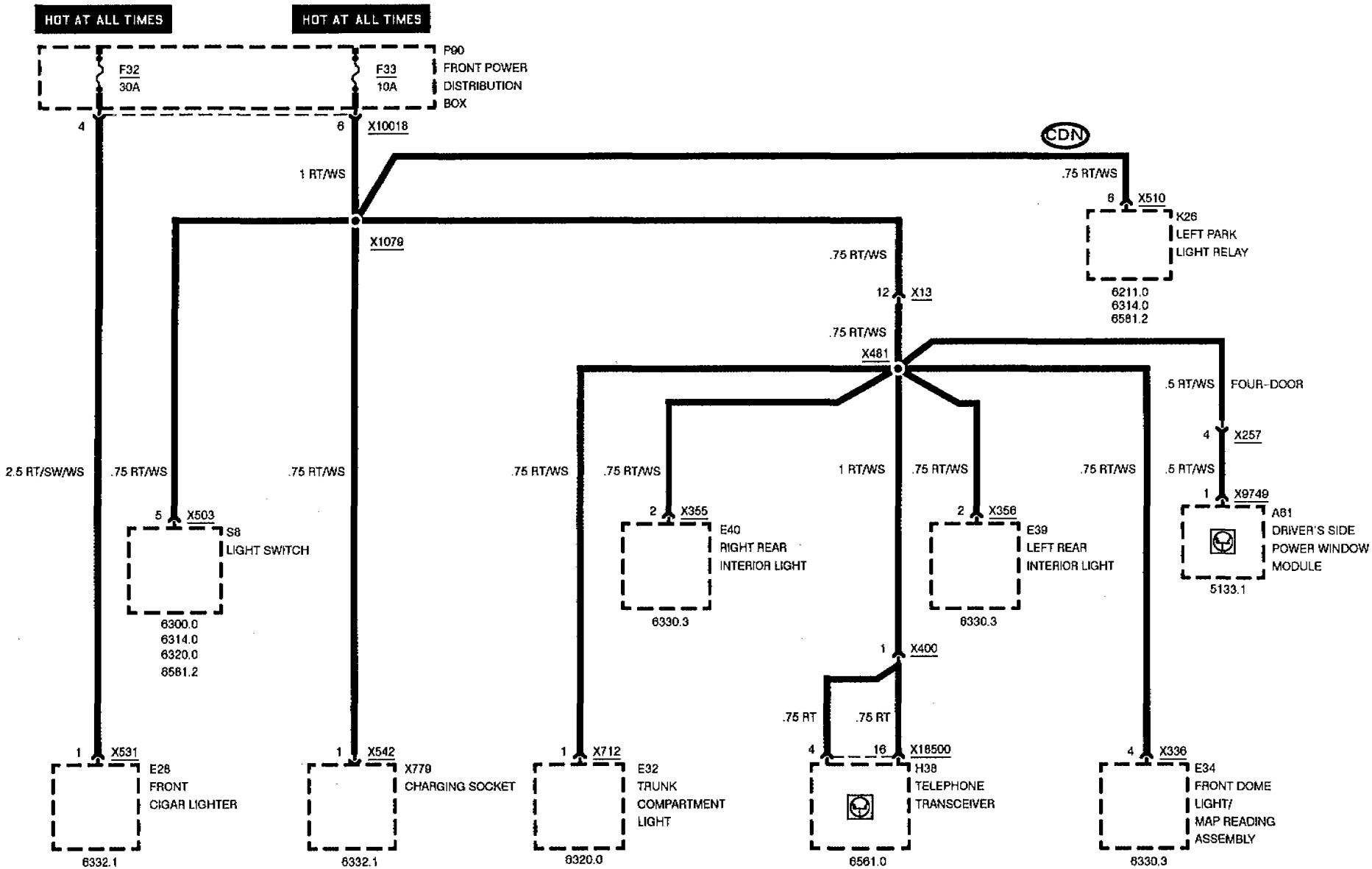
FUSE DETAILS

FUSE 31



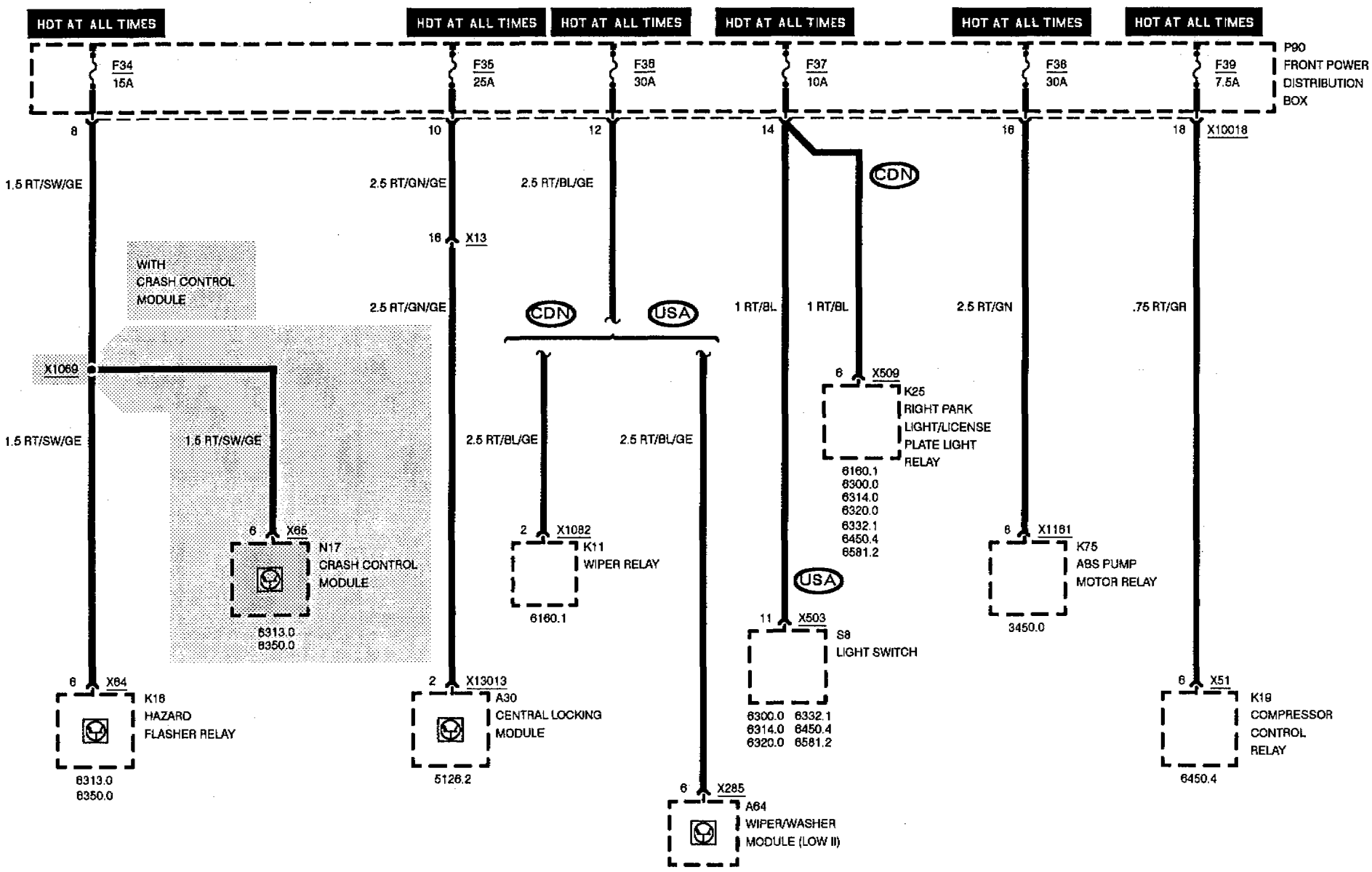
FUSE DETAILS

FUSES 32 AND 33



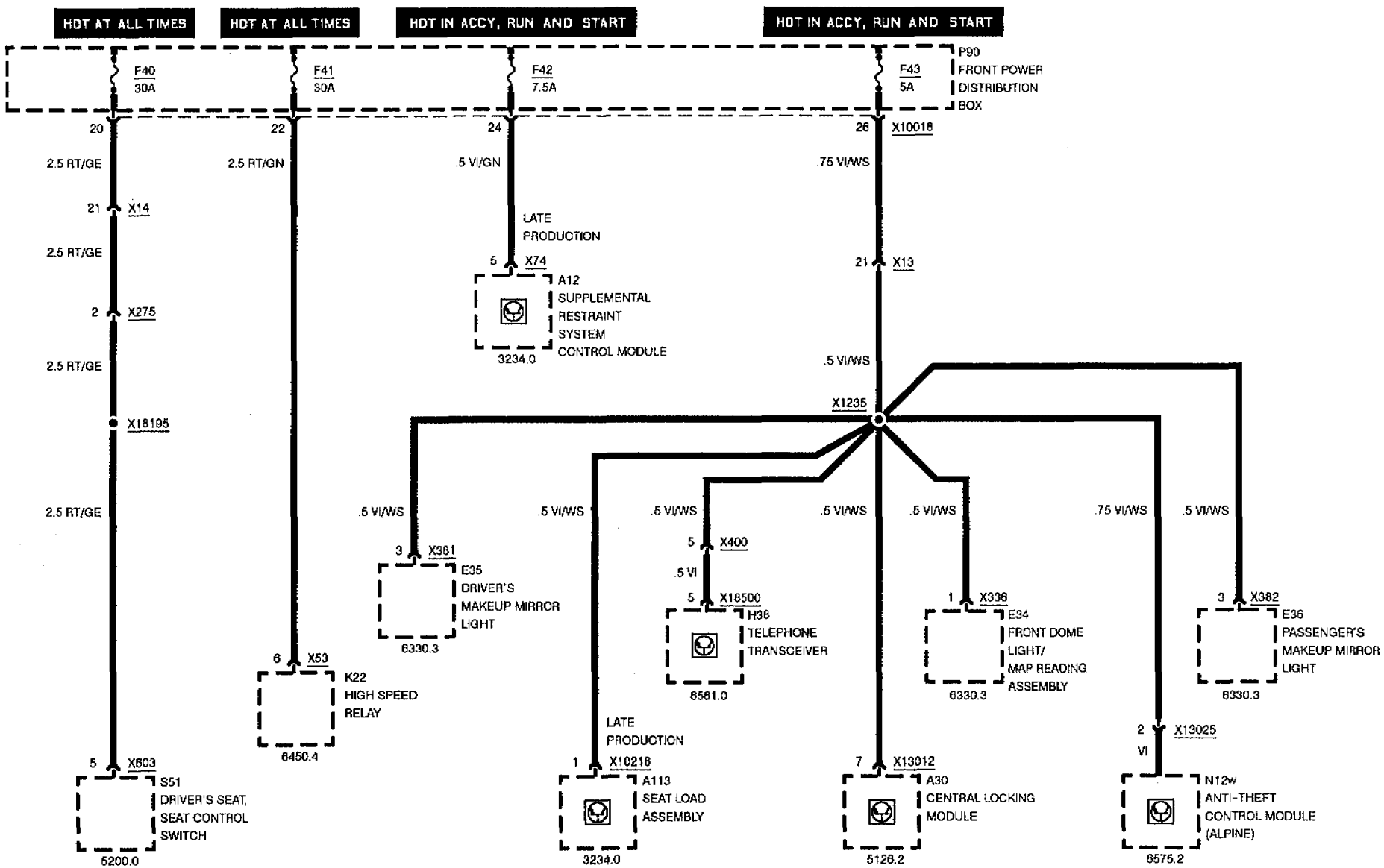
FUSE DETAILS

FUSES 34, 35, 36, 37, 38, AND 39



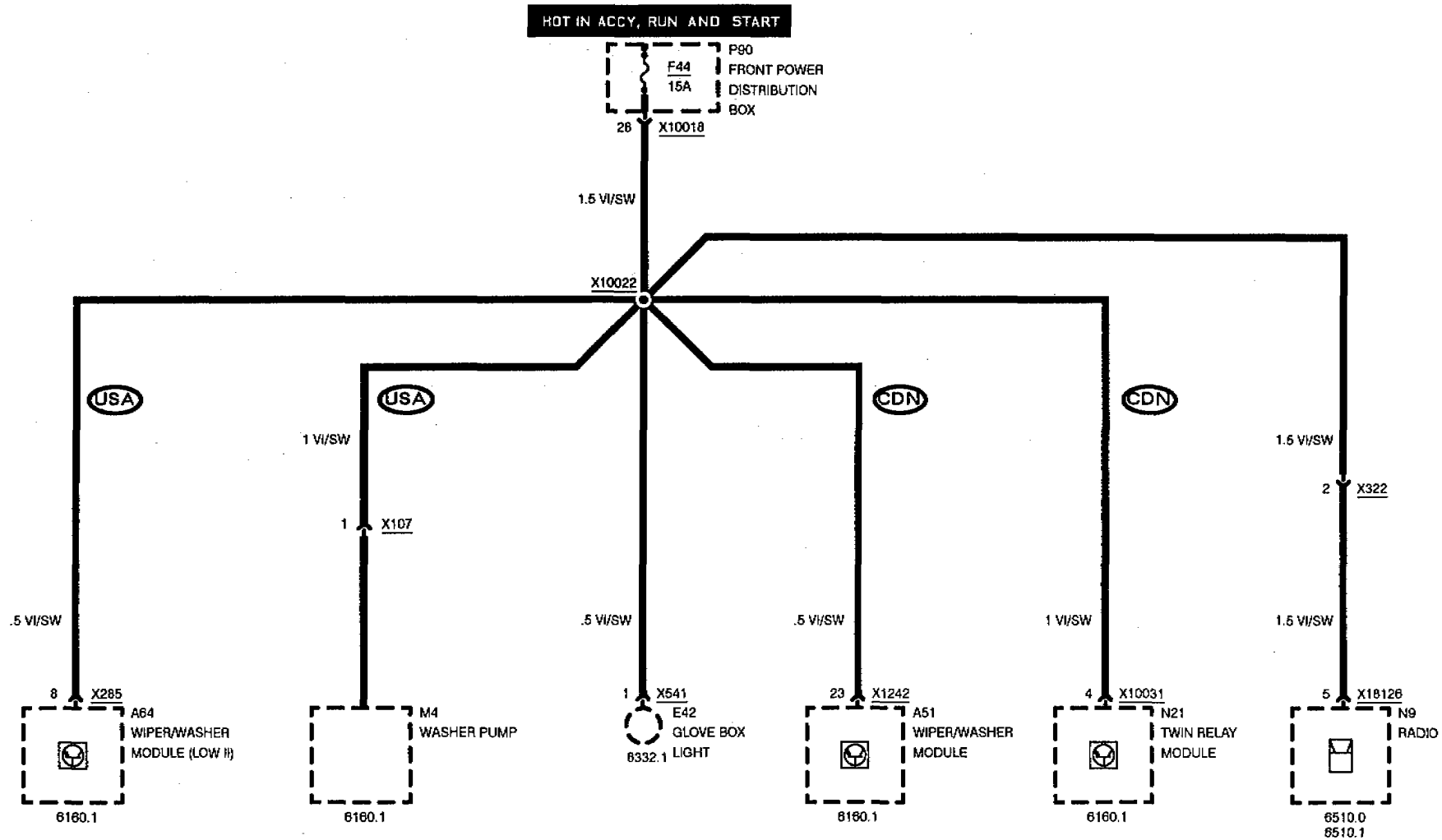
FUSE DETAILS

FUSES 40, 41, 42, AND 43



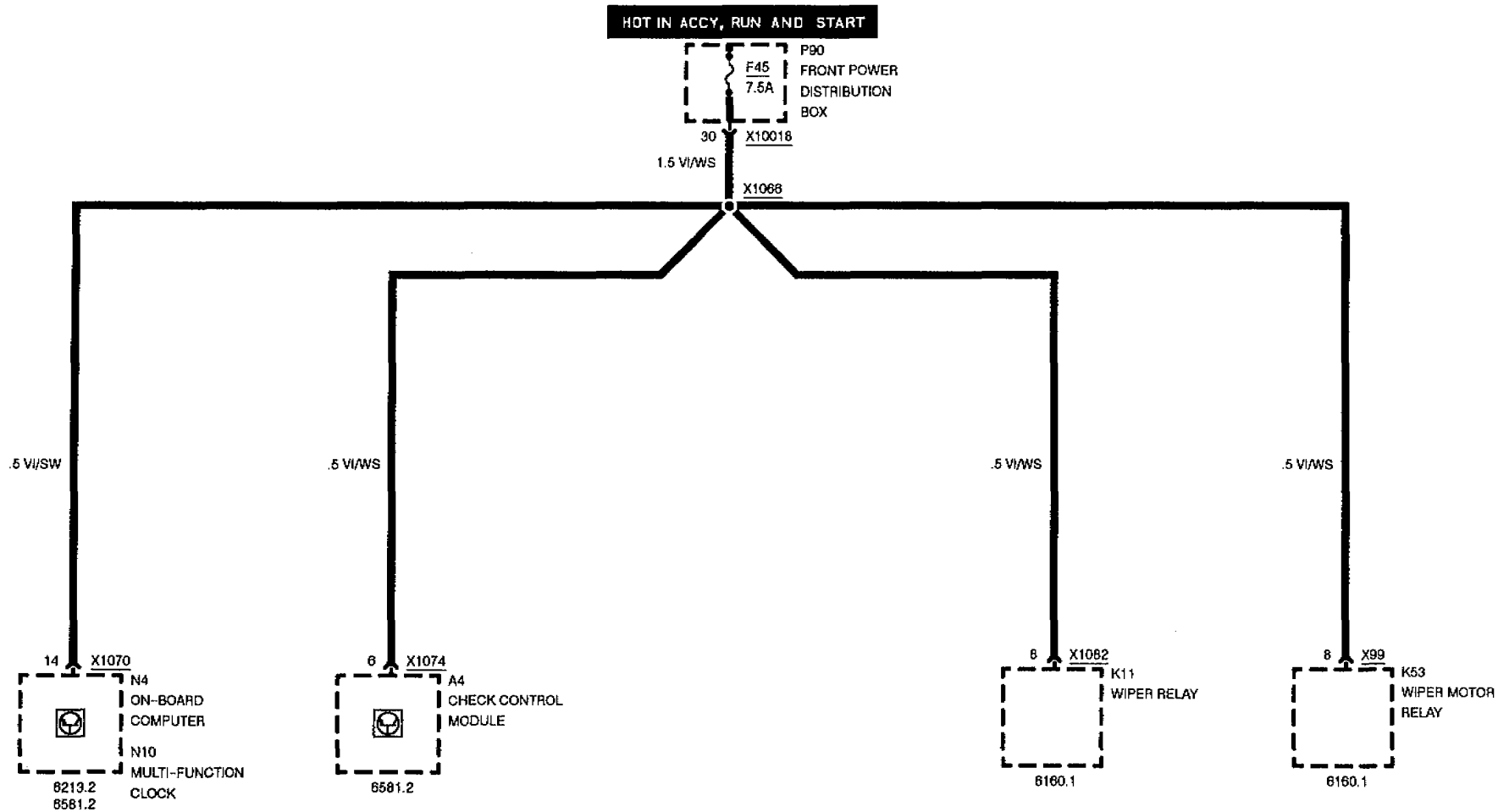
FUSE DETAILS

FUSE 44



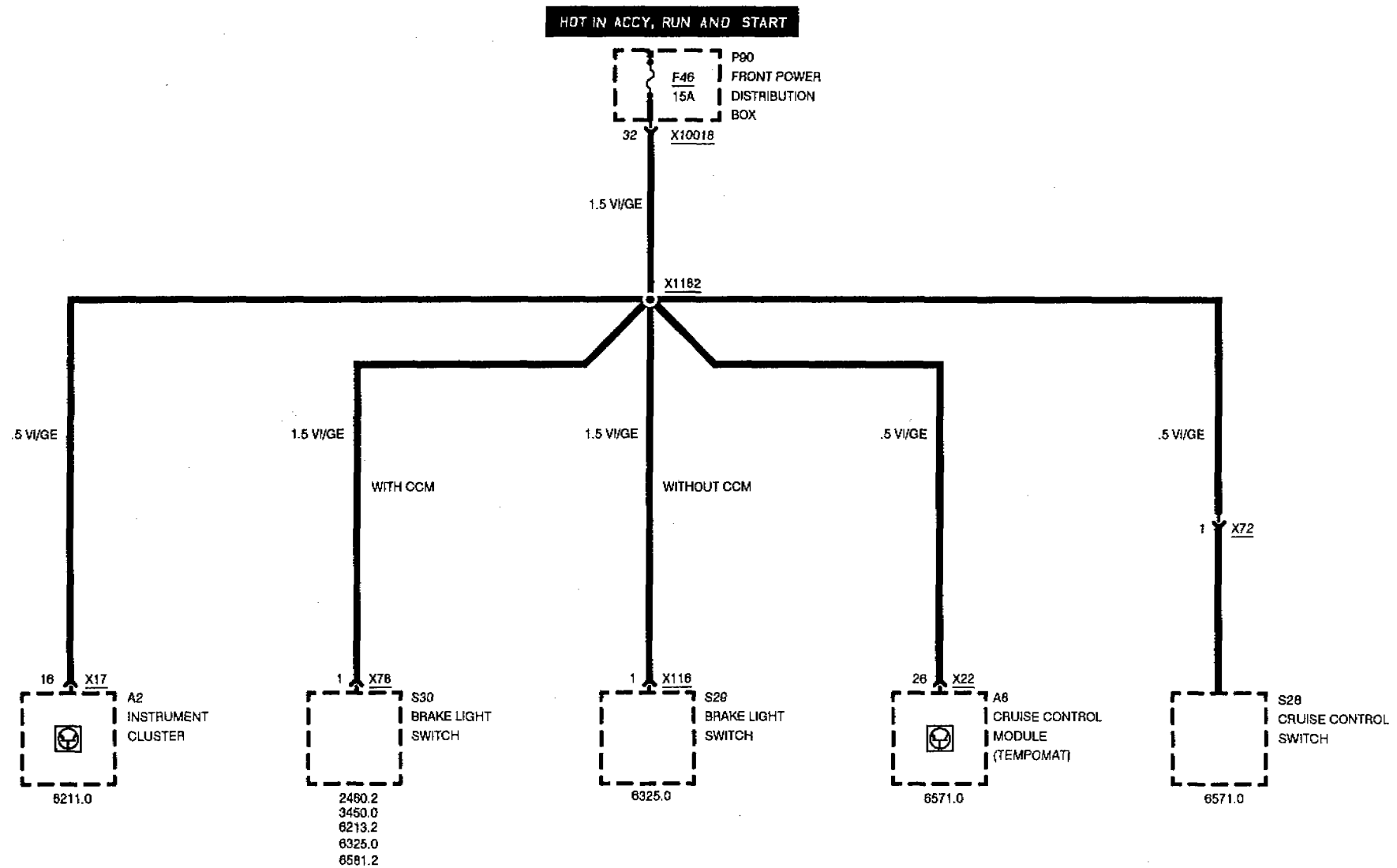
FUSE DETAILS

FUSE 45



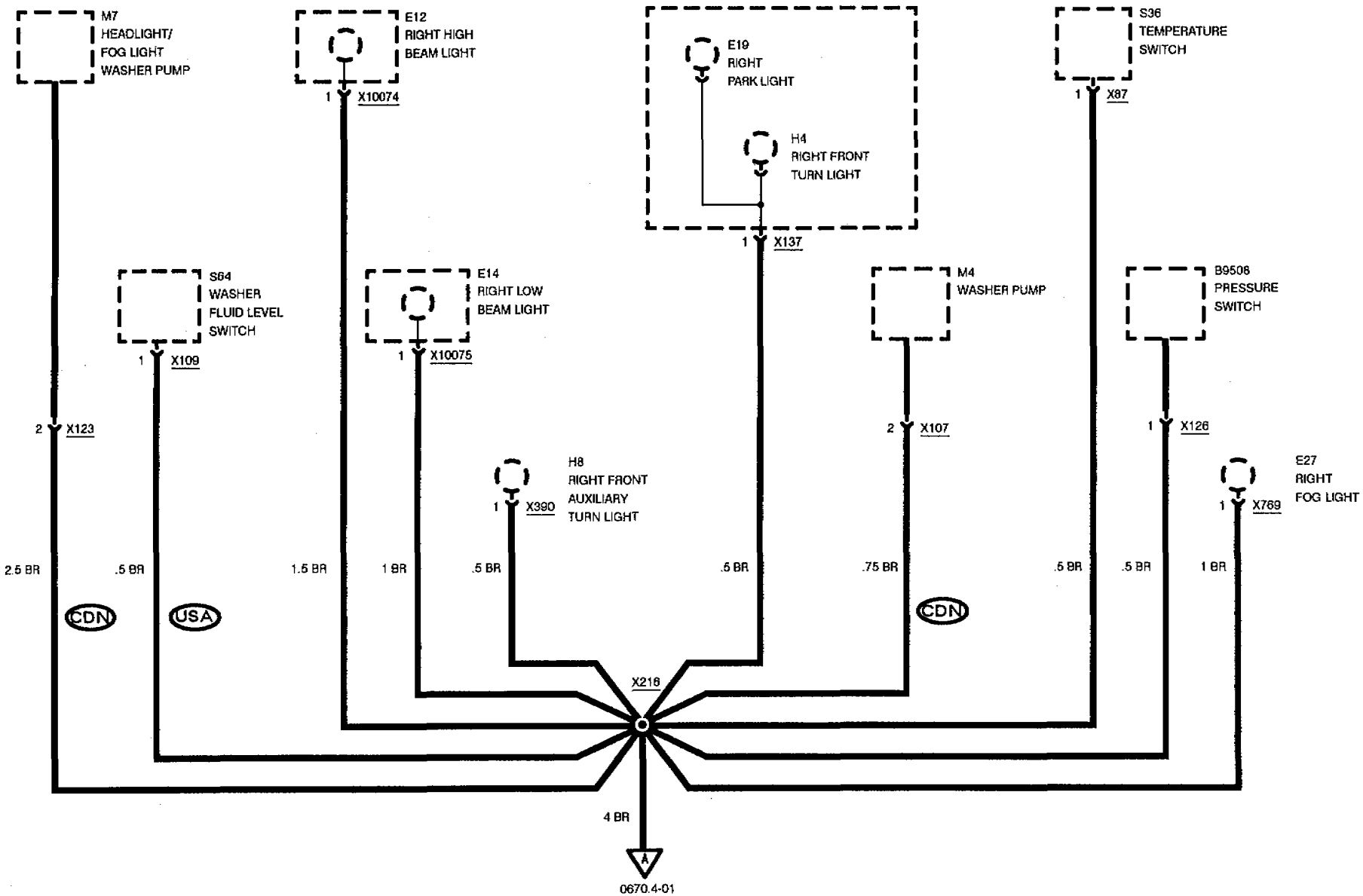
FUSE DETAILS

FUSE 46



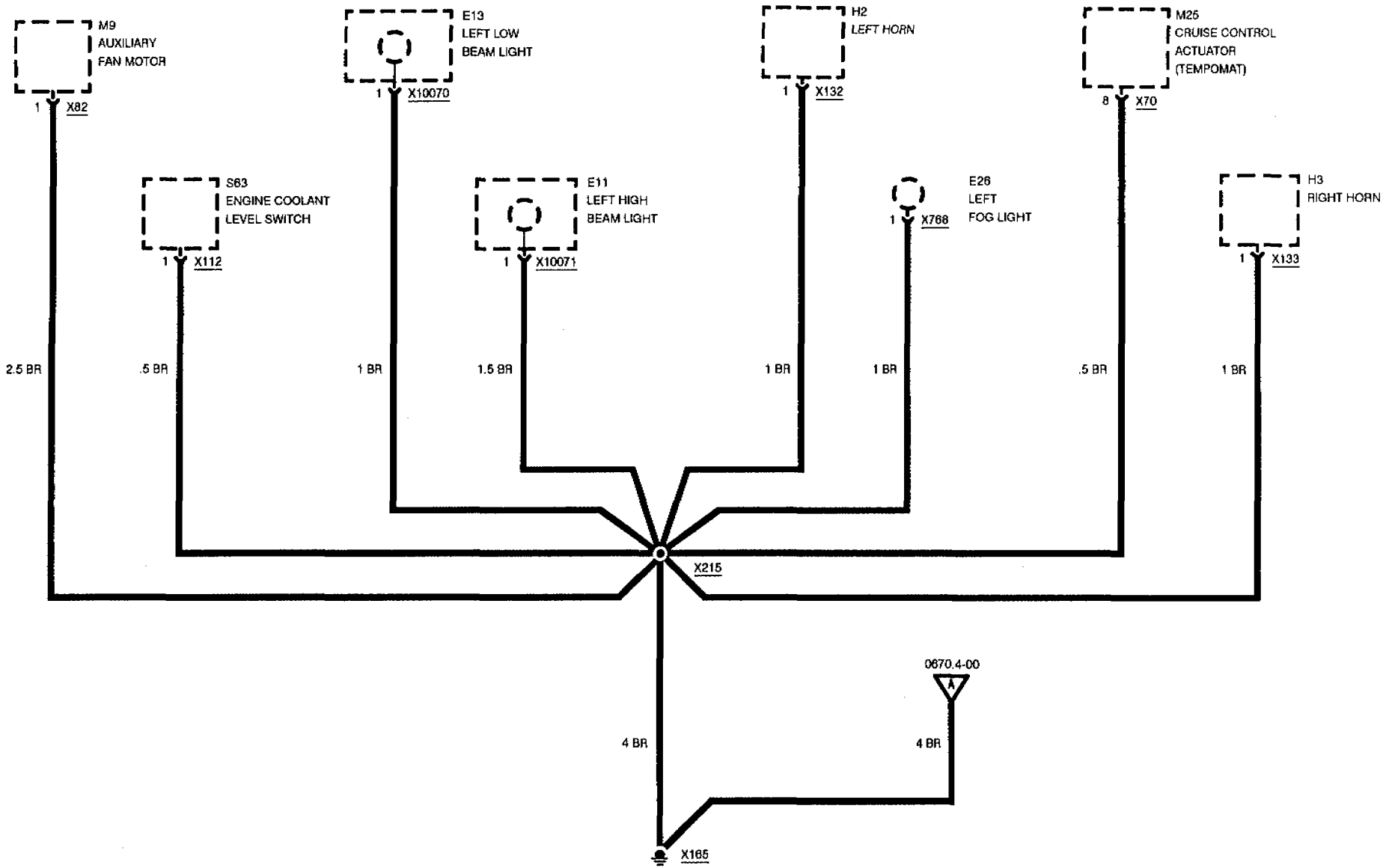
GROUND DISTRIBUTION

GROUND X165



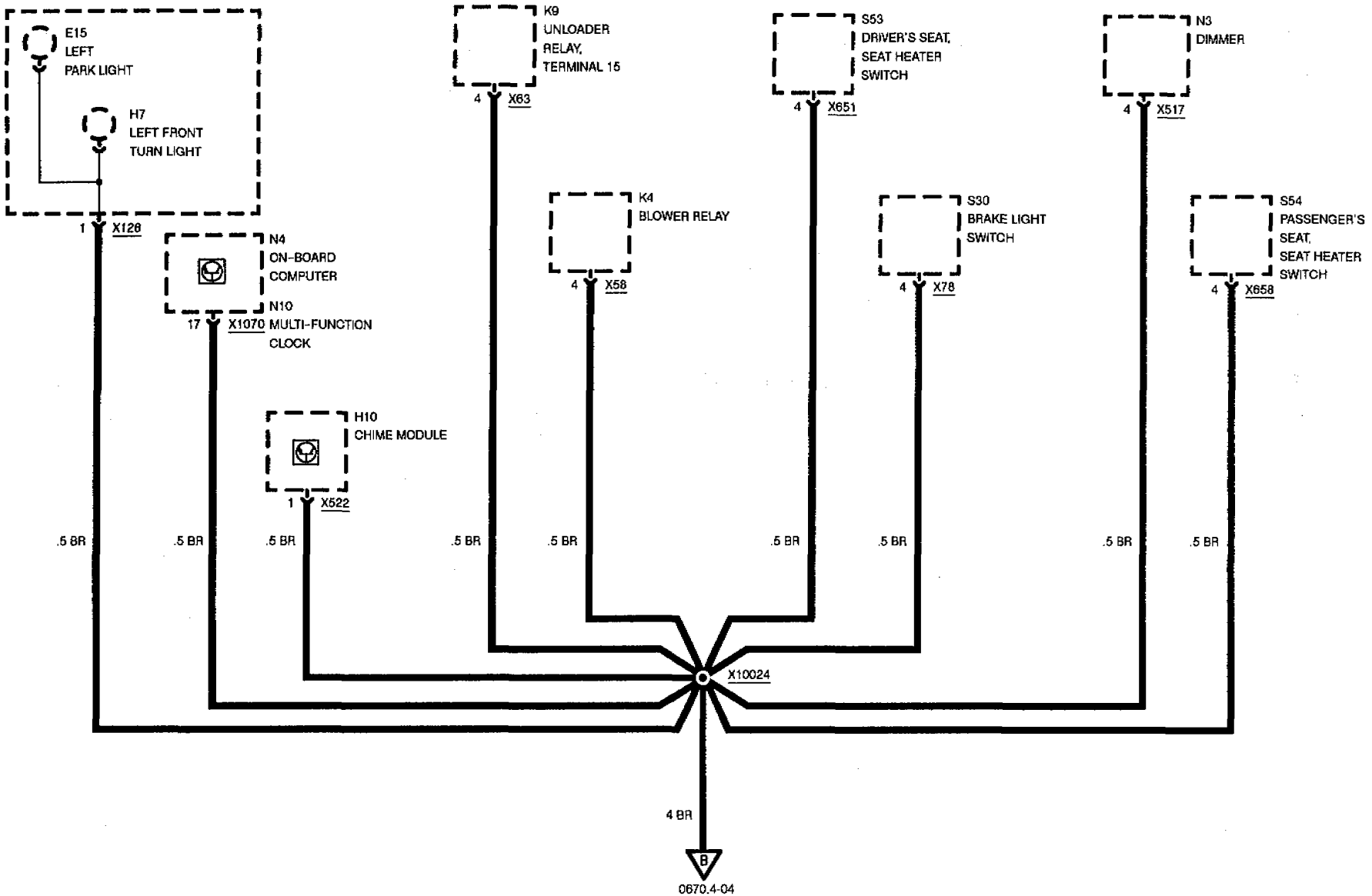
GROUND DISTRIBUTION

GROUND X165



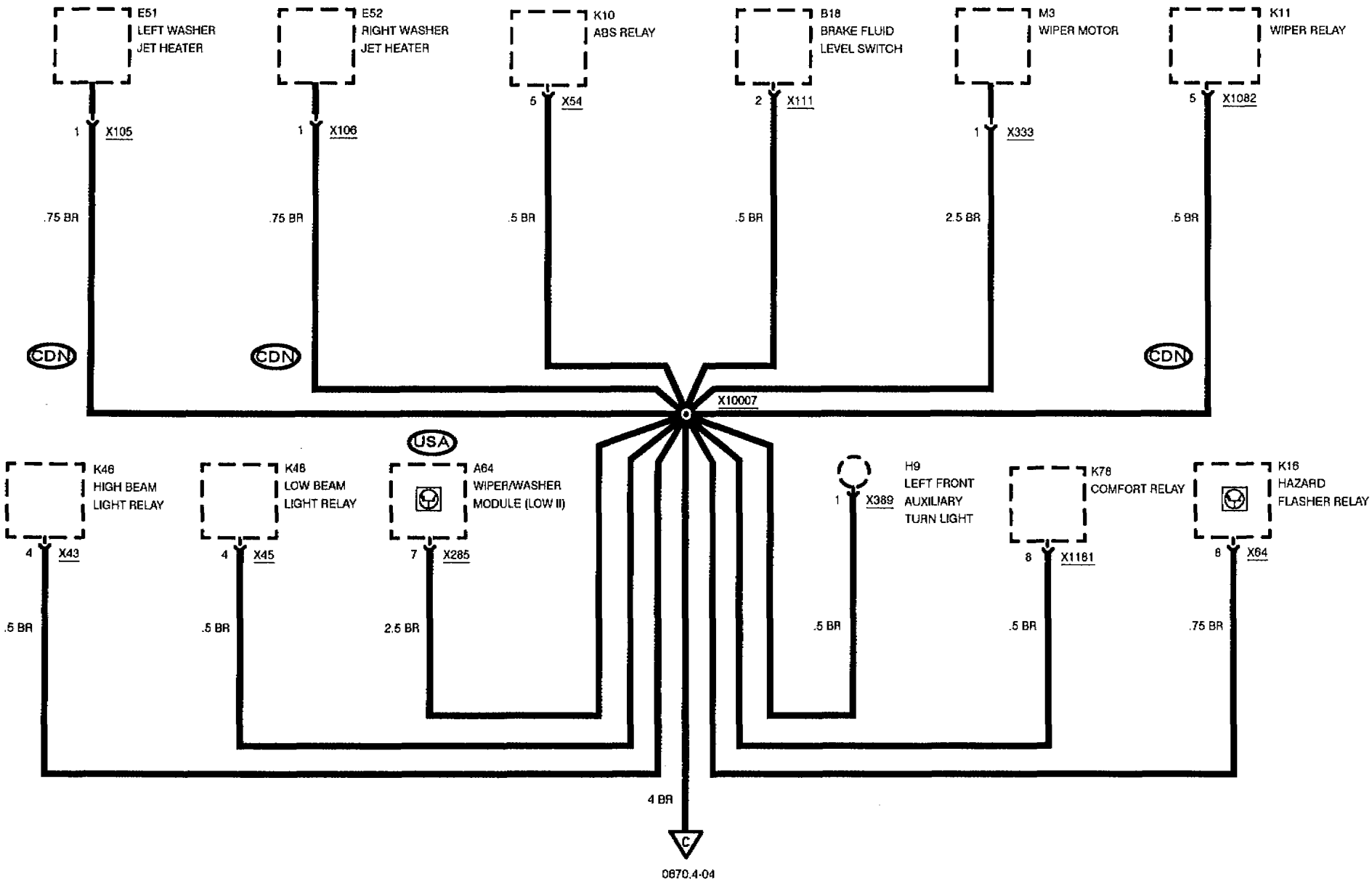
GROUND DISTRIBUTION

GROUND X173



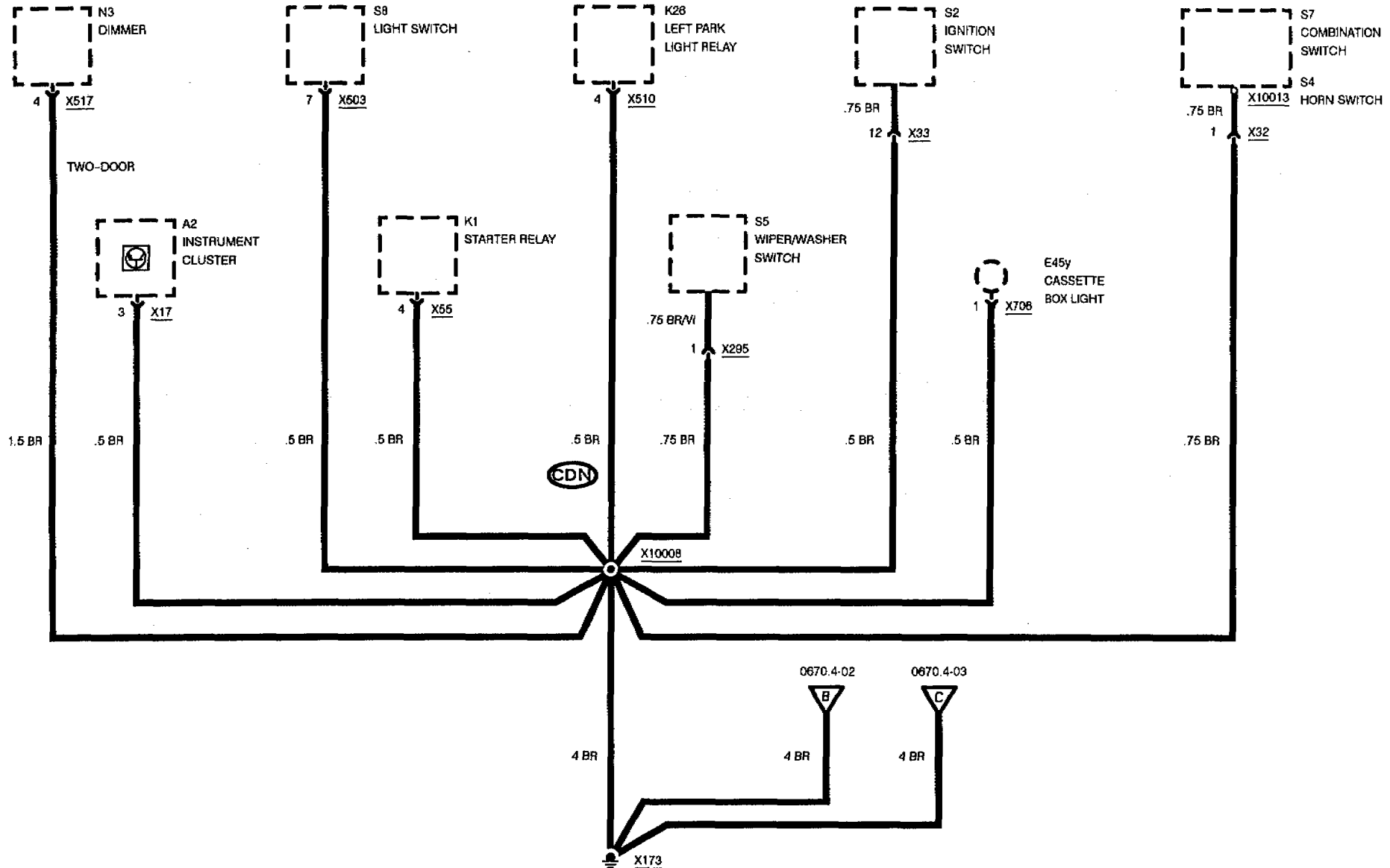
GROUND DISTRIBUTION

GROUND X173



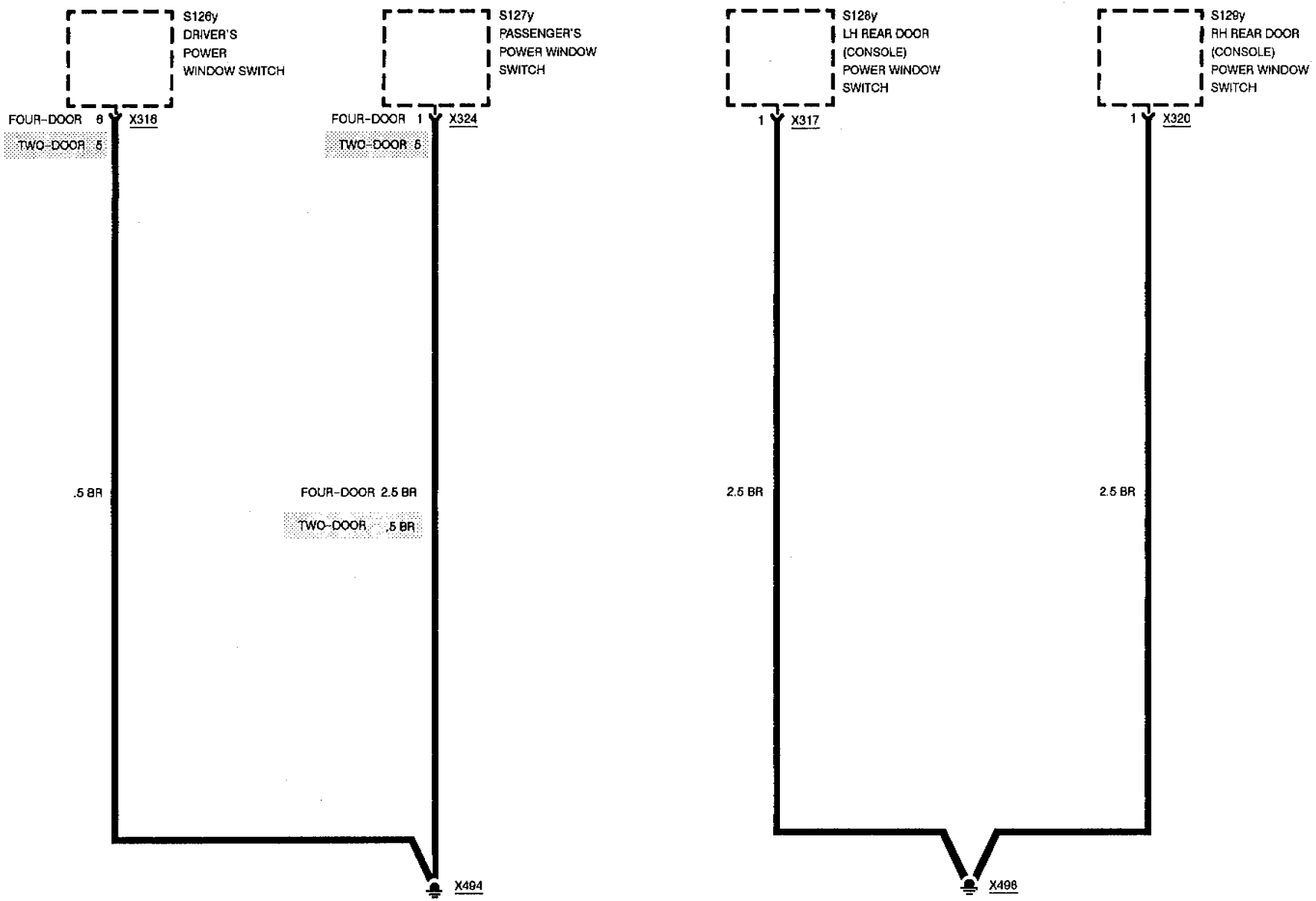
GROUND DISTRIBUTION

GROUND X173



GROUND DISTRIBUTION

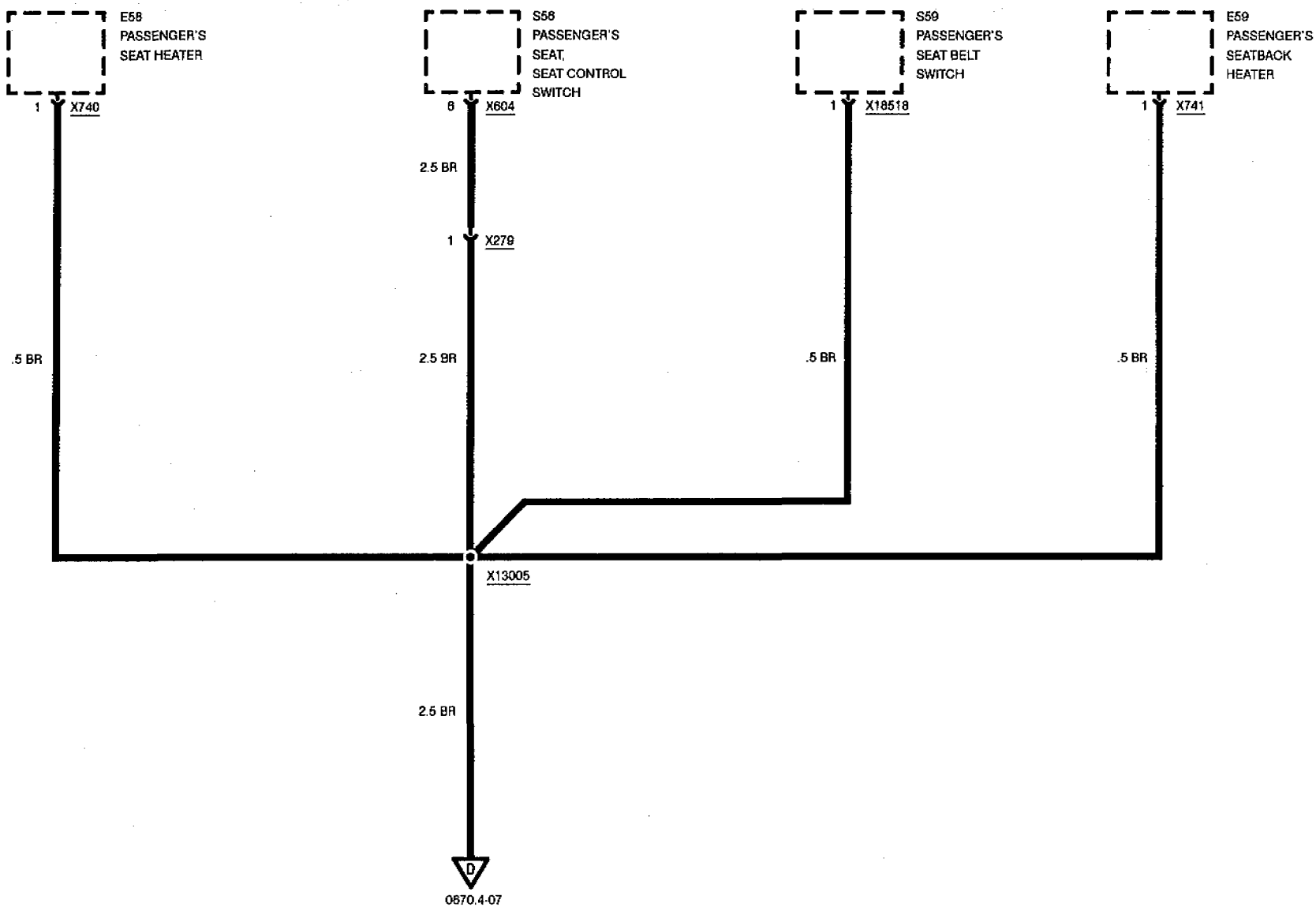
GROUNDS X494 AND X498



GROUND DISTRIBUTION

GROUND X495

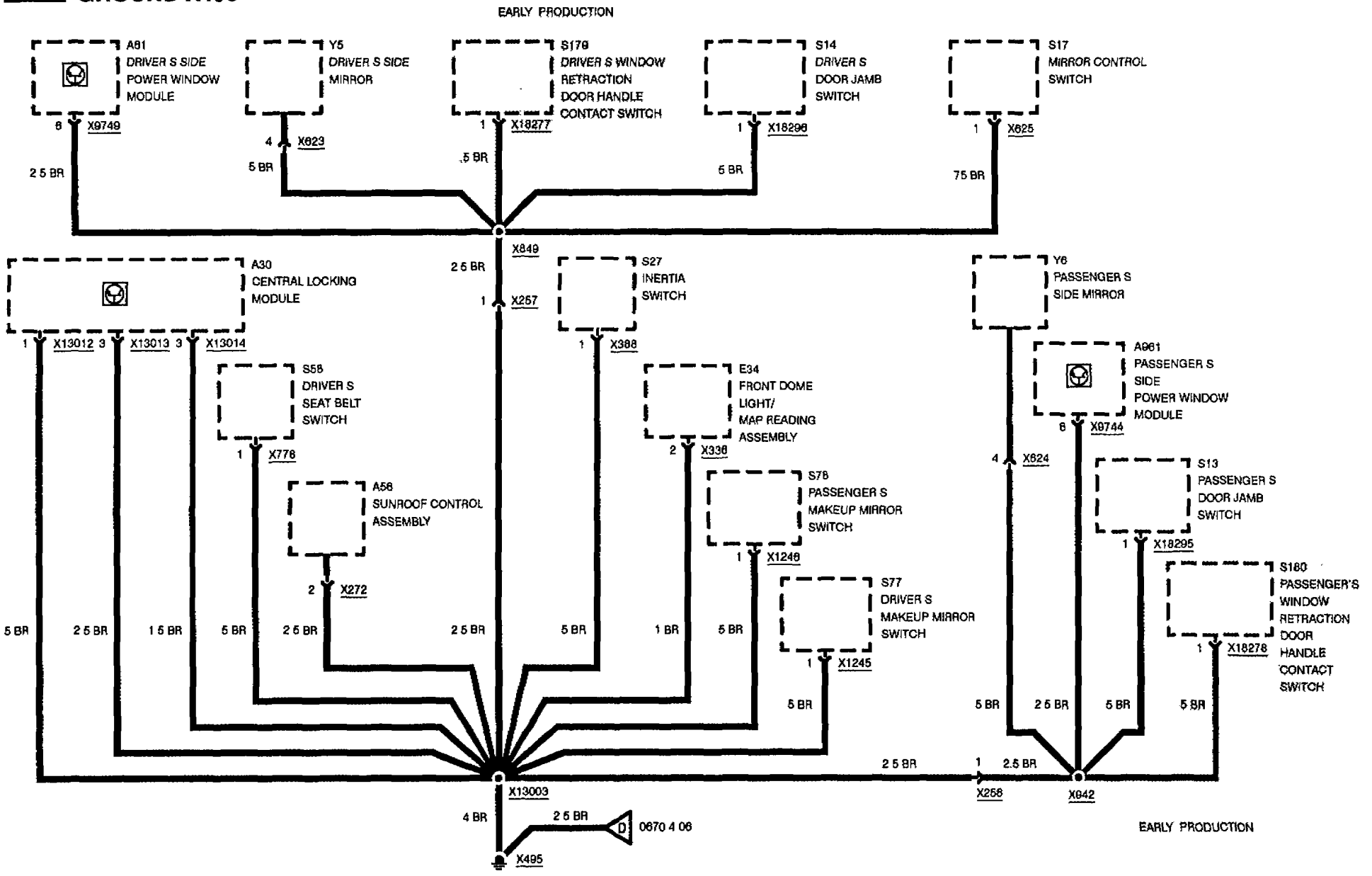
TWO-DOOR



GROUND DISTRIBUTION

TWO-DOOR

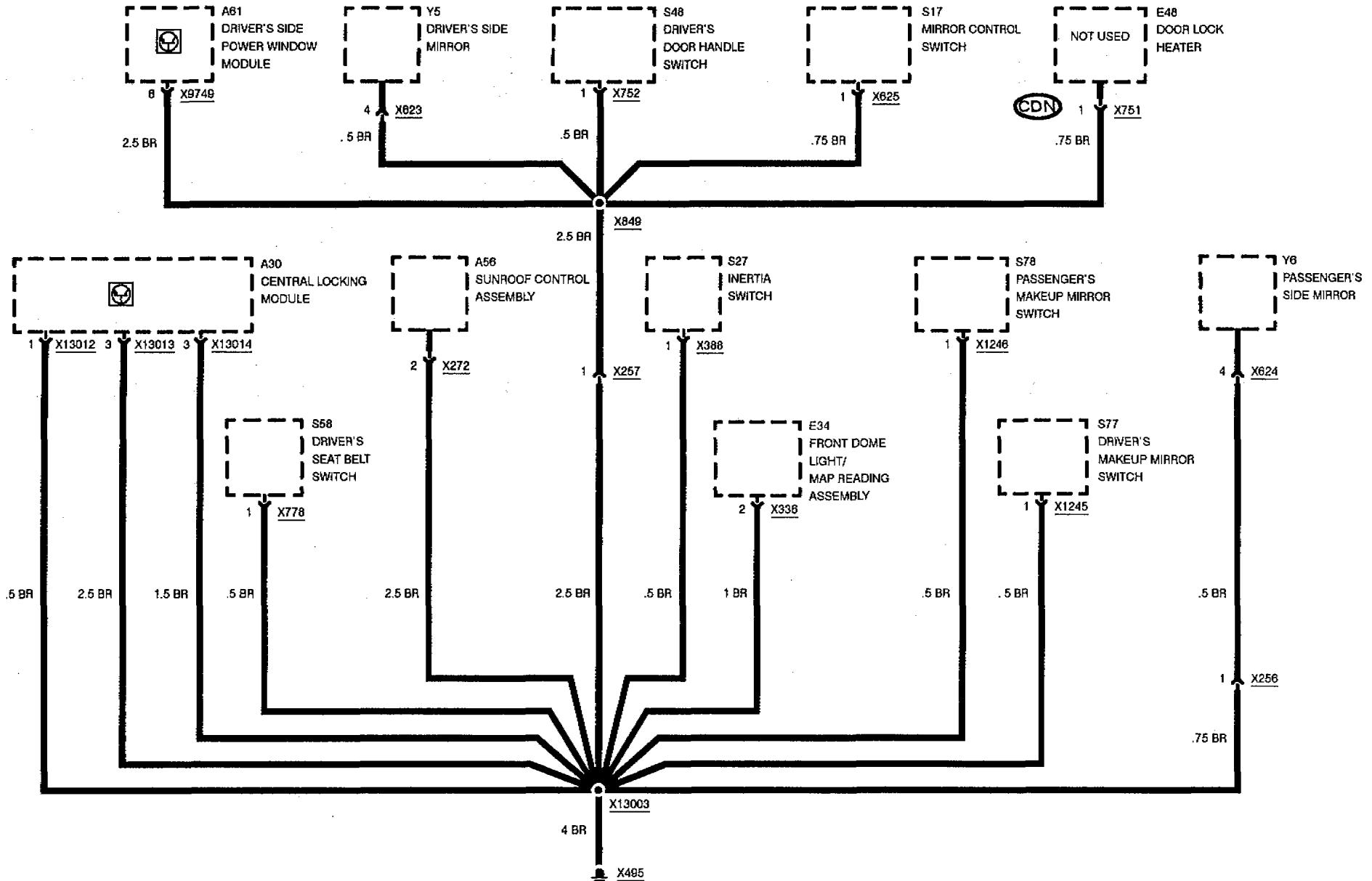
GROUND X495



GROUND DISTRIBUTION

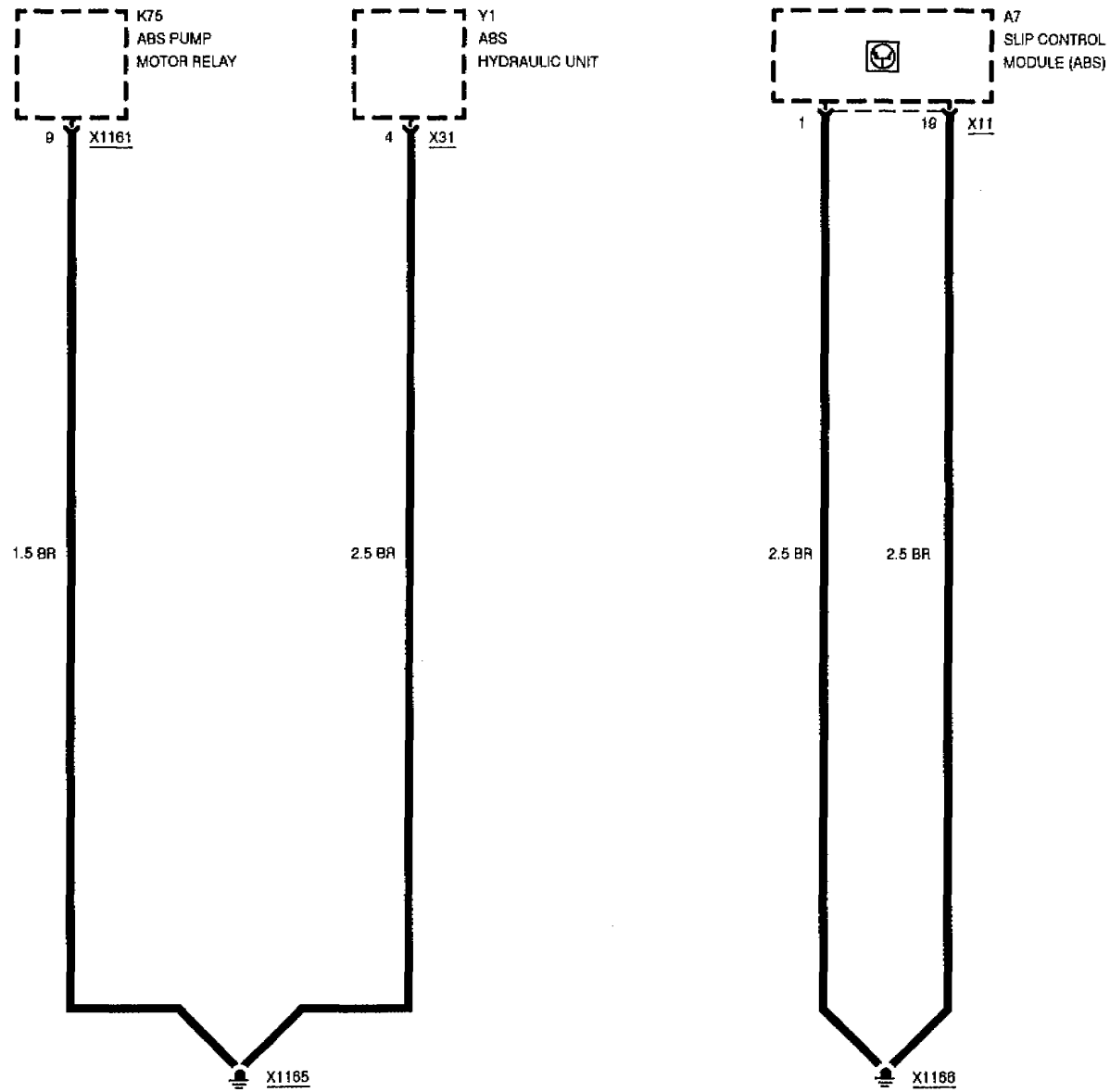
TWO-DOOR

GROUND X495

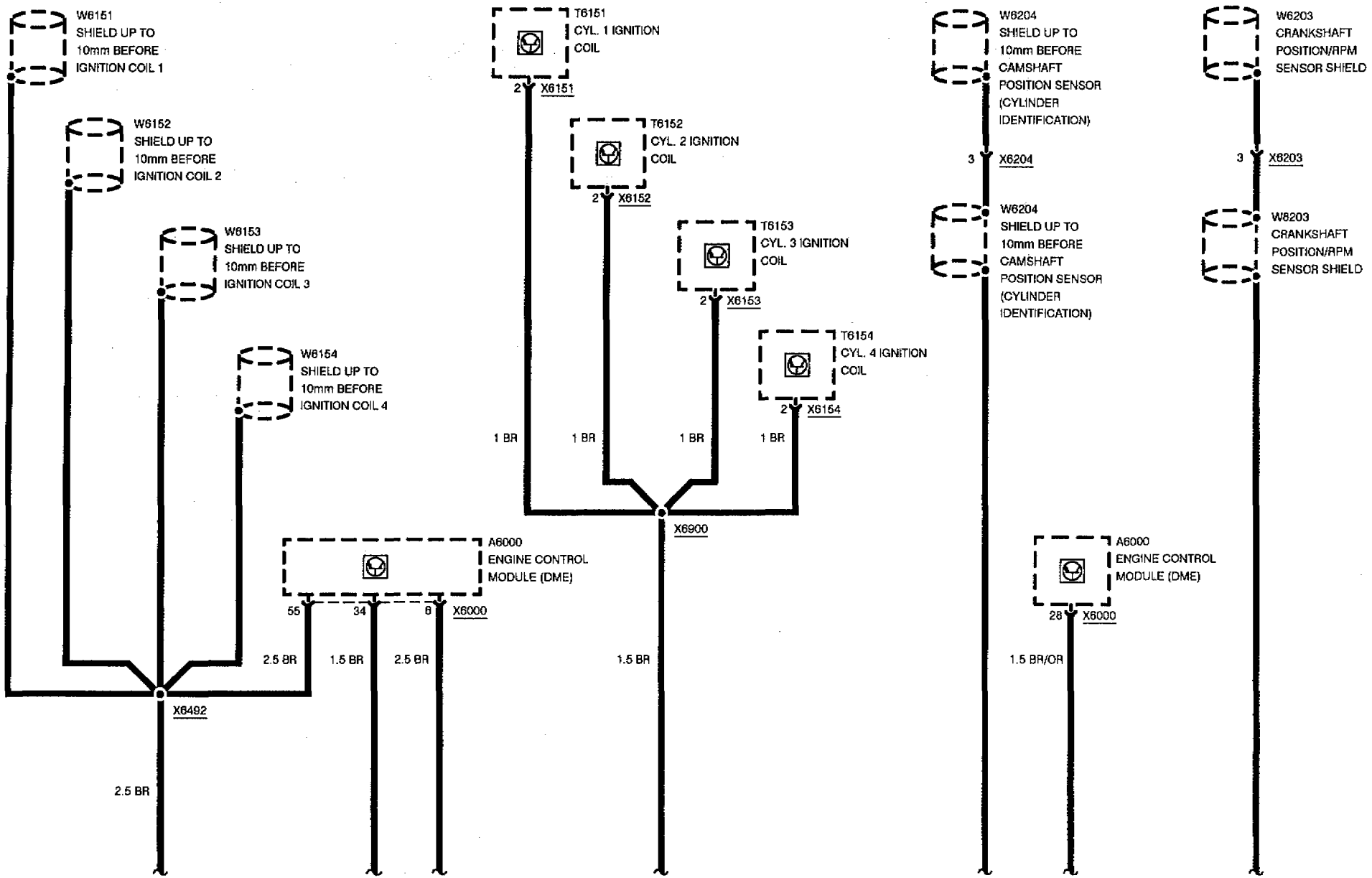


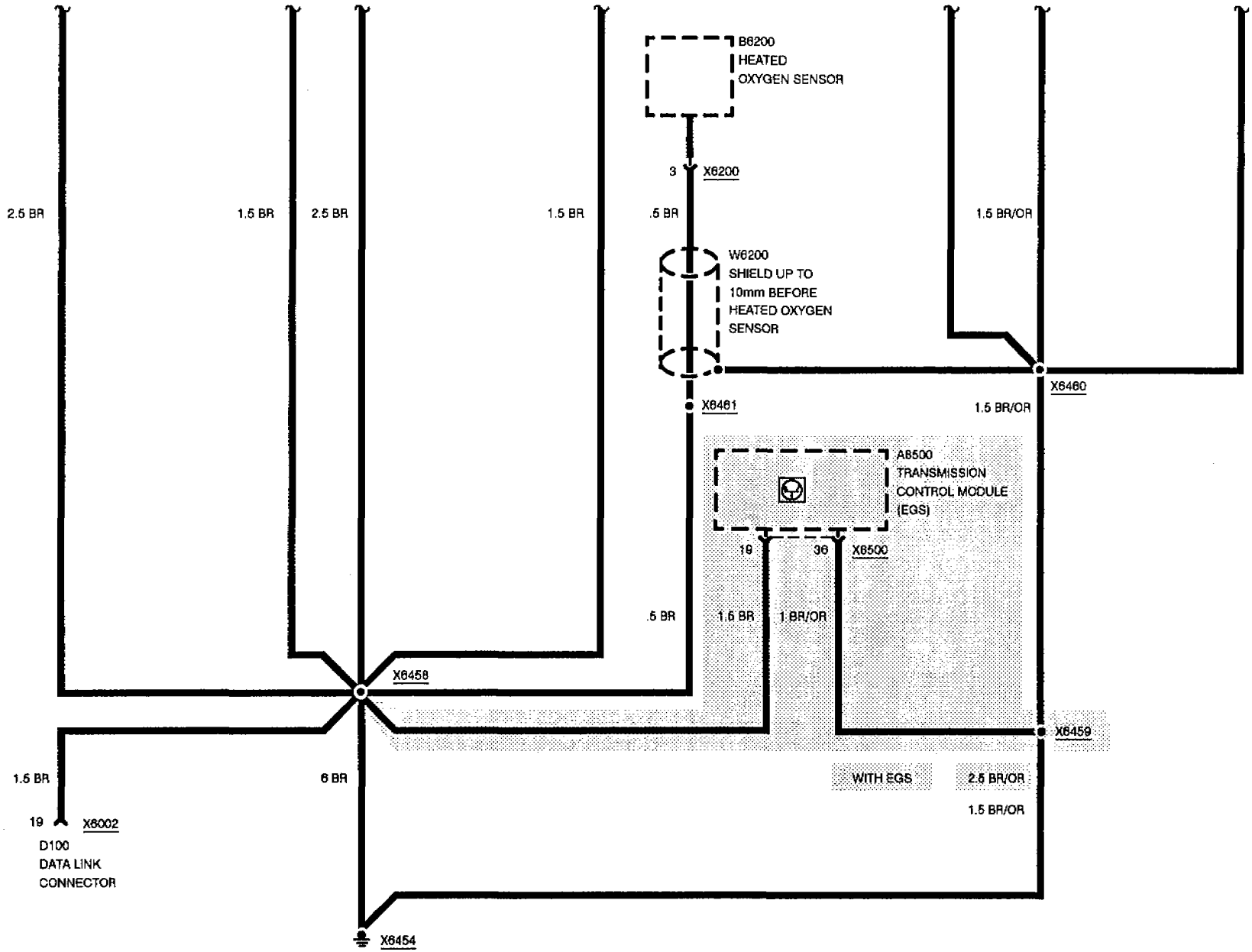
GROUND DISTRIBUTION

GROUNDS X1165 AND X1166

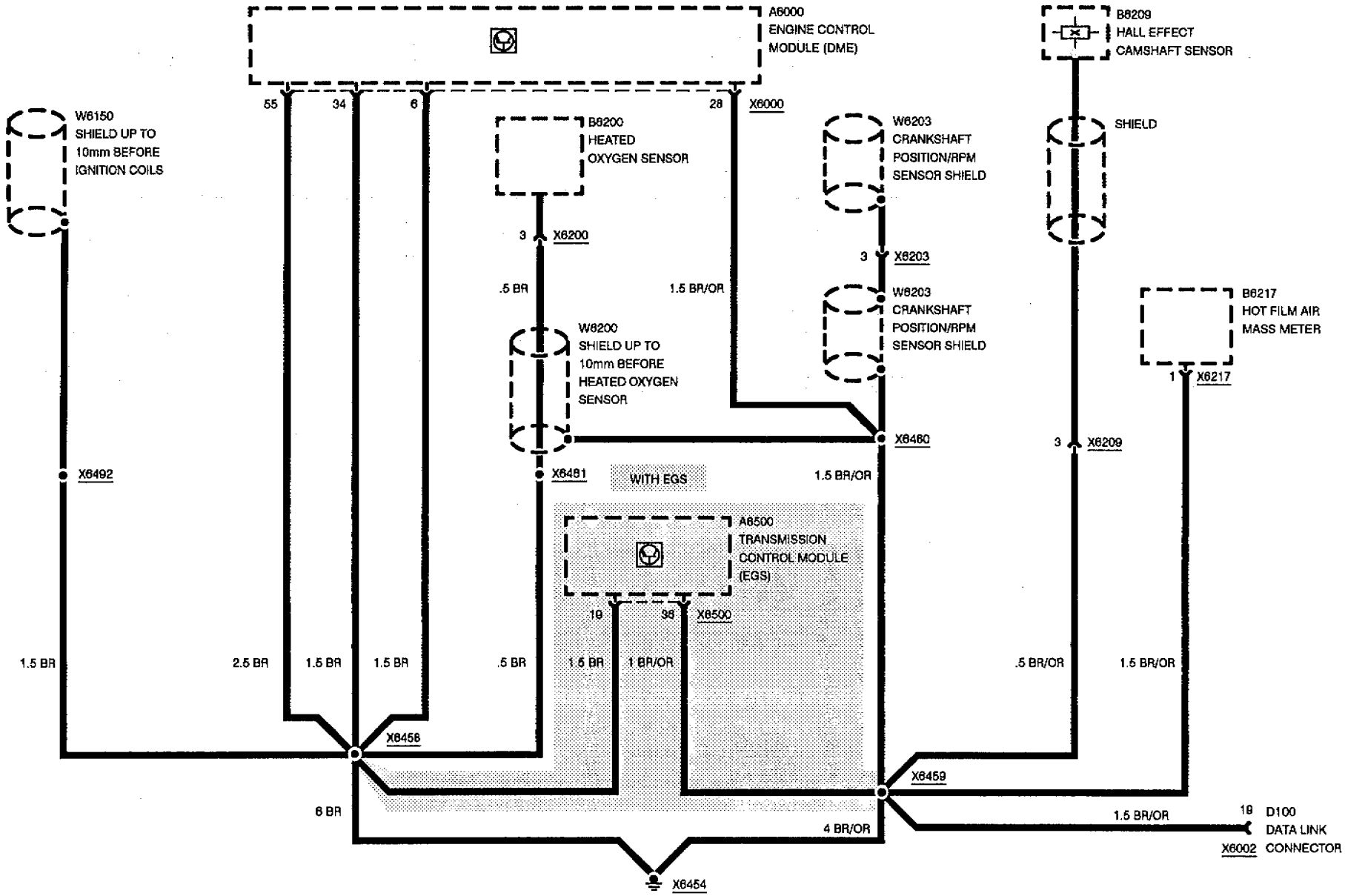


GROUND X6454



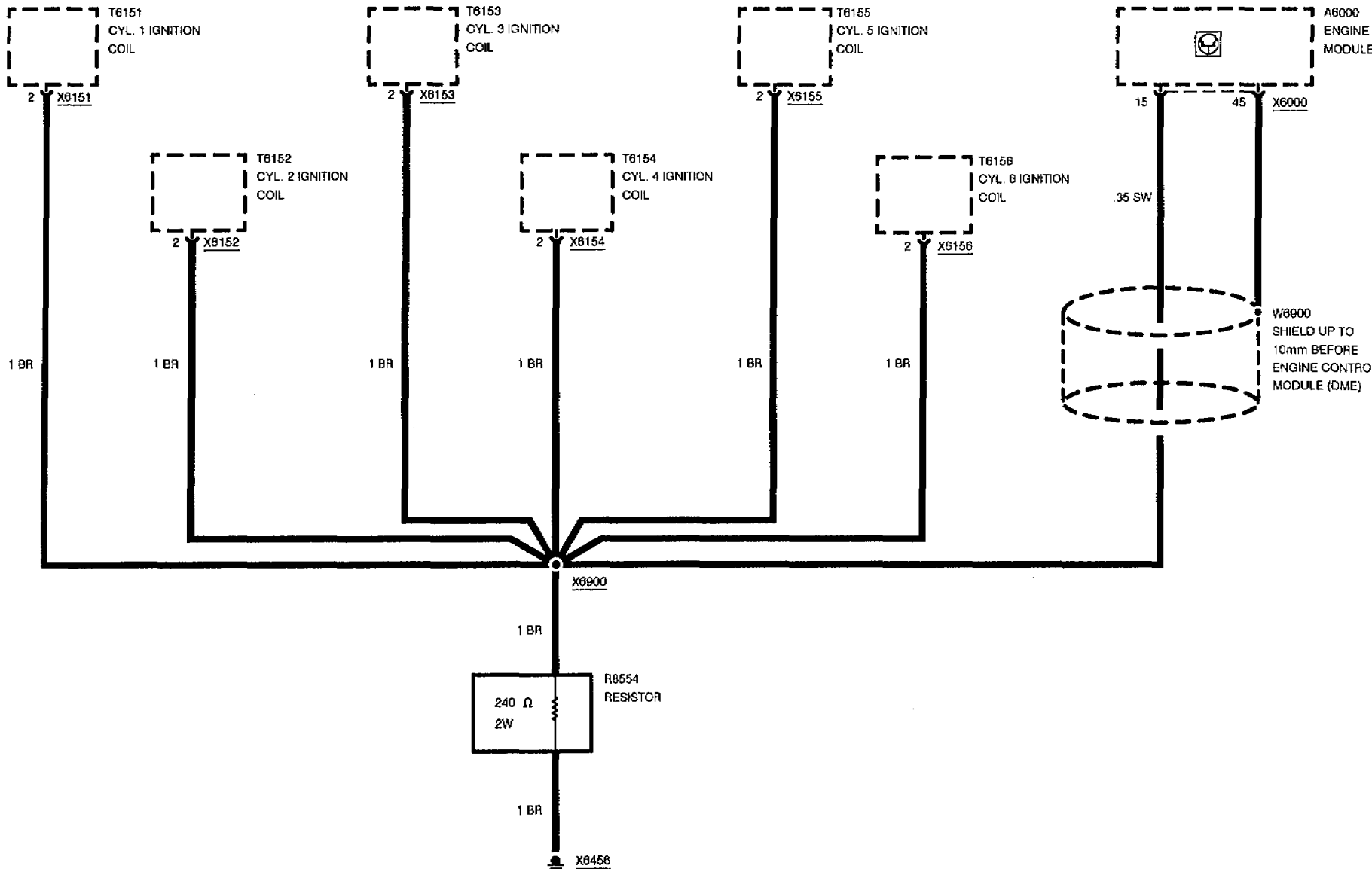

B6200
HEATED
OXYGEN SENSOR
3
X6200
2.5 BR
1.5 BR
2.5 BR
1.5 BR
.5 BR
1.5 BR/OR
W6200
SHIELD UP TO
10mm BEFORE
HEATED OXYGEN
SENSOR
X6460
X6461
1.5 BR/OR
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
19
36
X8500
.5 BR
1.5 BR
1 BR/OR
X6458
X6459
WITH EGS
2.5 BR/OR
1.5 BR/OR
1.5 BR
6 BR
19
X6002
D100
DATA LINK
CONNECTOR
X6454

GROUND X6454



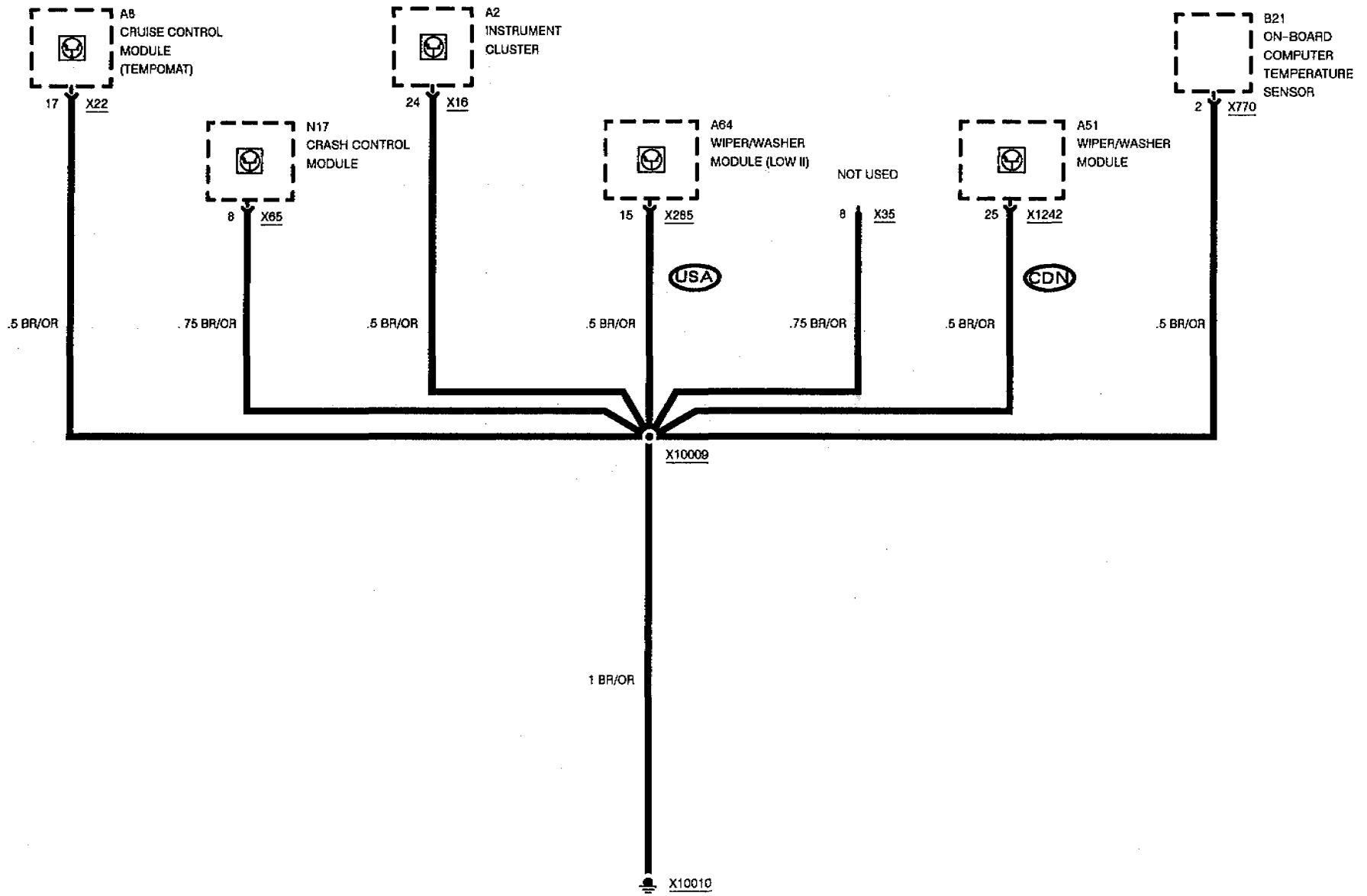
GROUND DISTRIBUTION

GROUND X6456



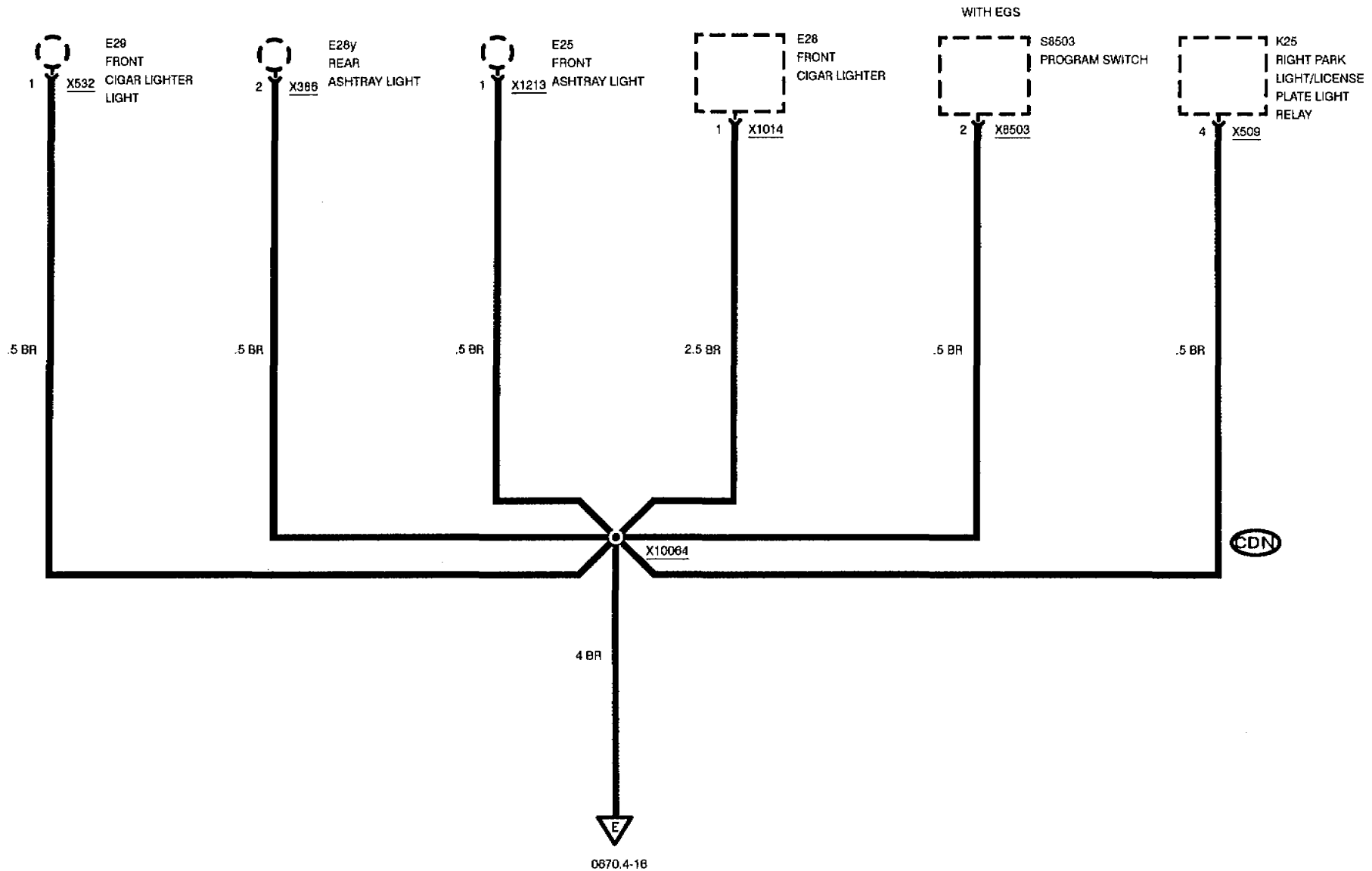
GROUND DISTRIBUTION

GROUND X10010



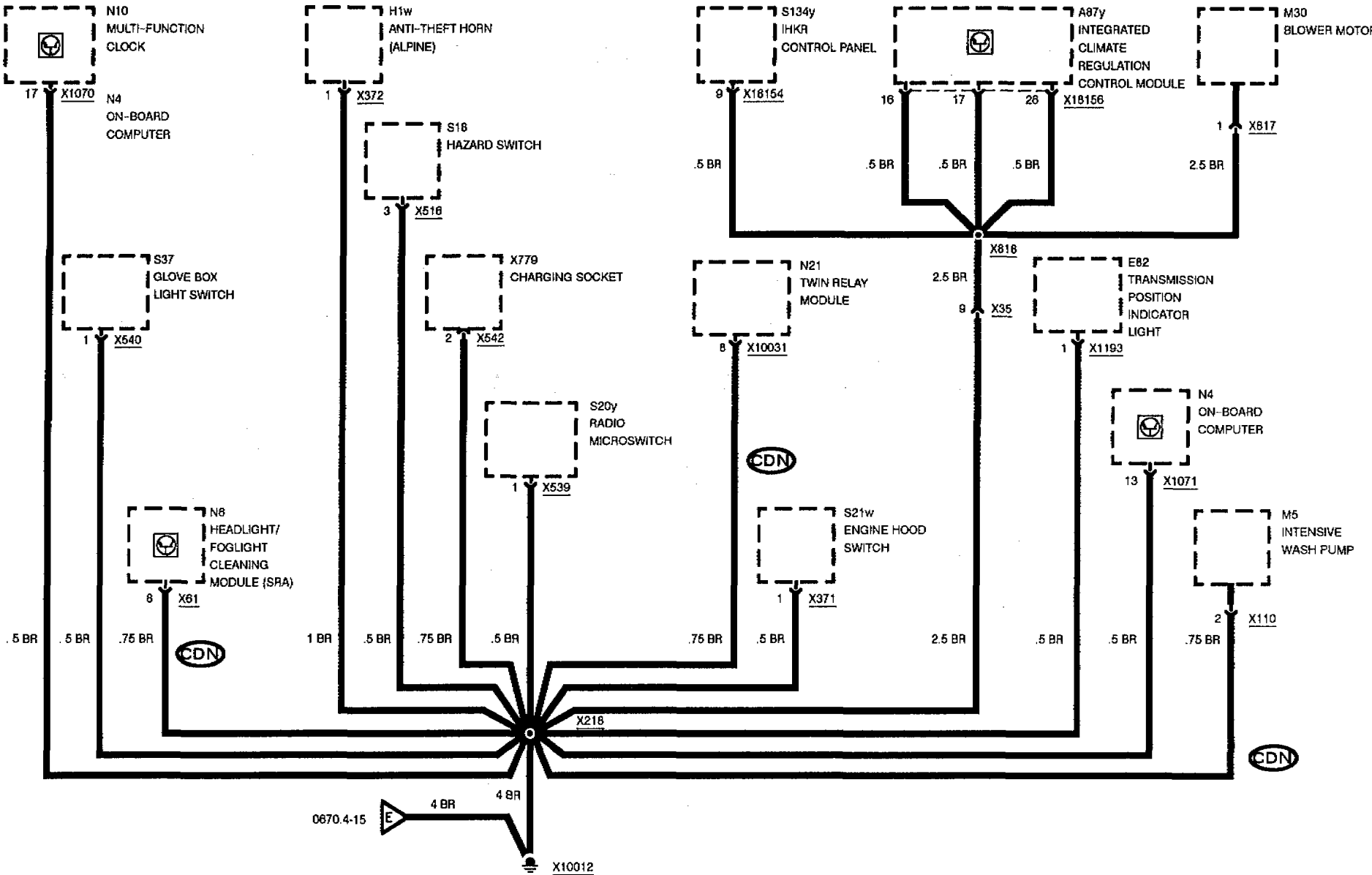
GROUND DISTRIBUTION

GROUND X10012



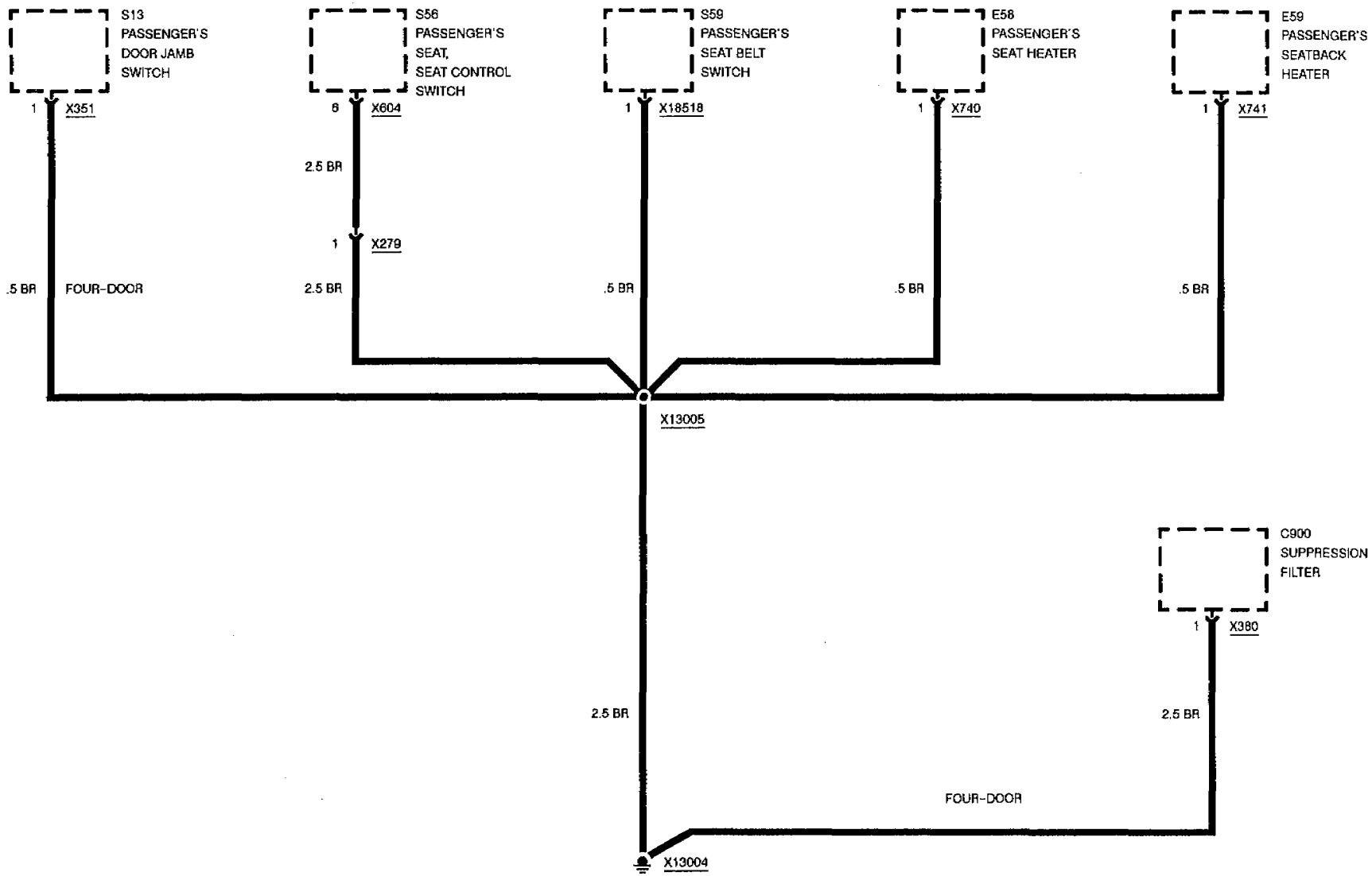
GROUND DISTRIBUTION

GROUND X10012



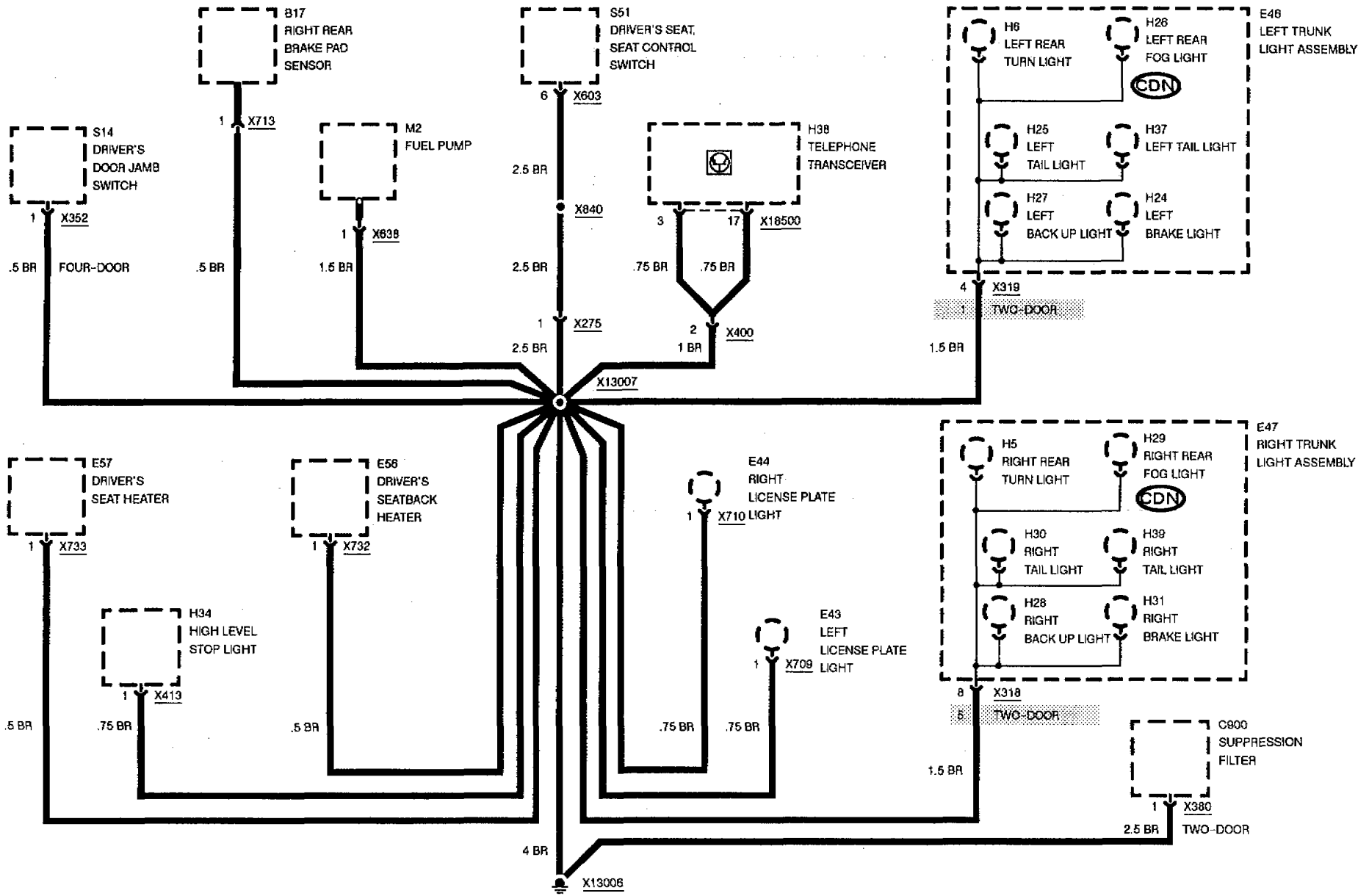
GROUND DISTRIBUTION

GROUND X13004



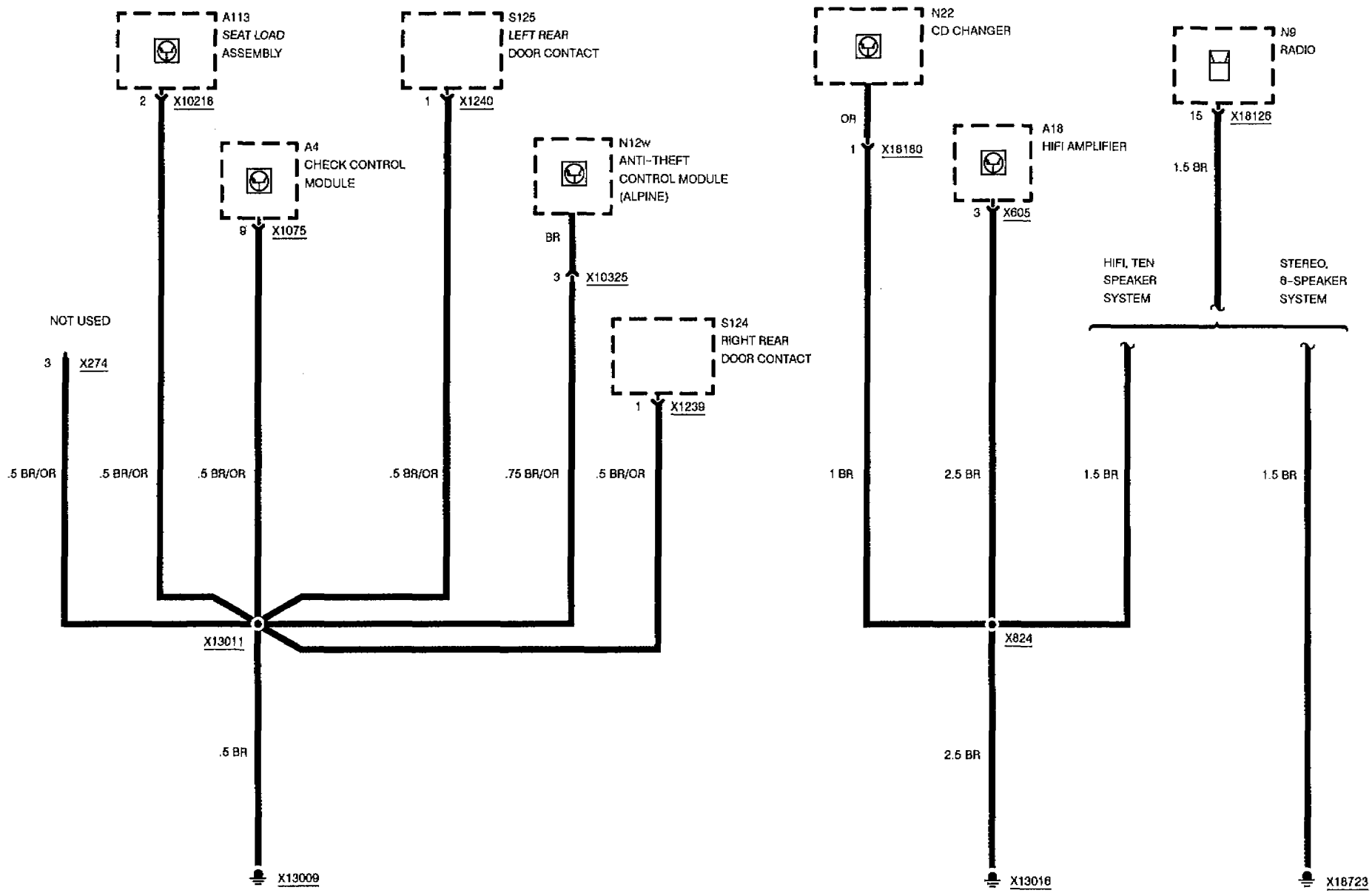
GROUND DISTRIBUTION

GROUND X13006



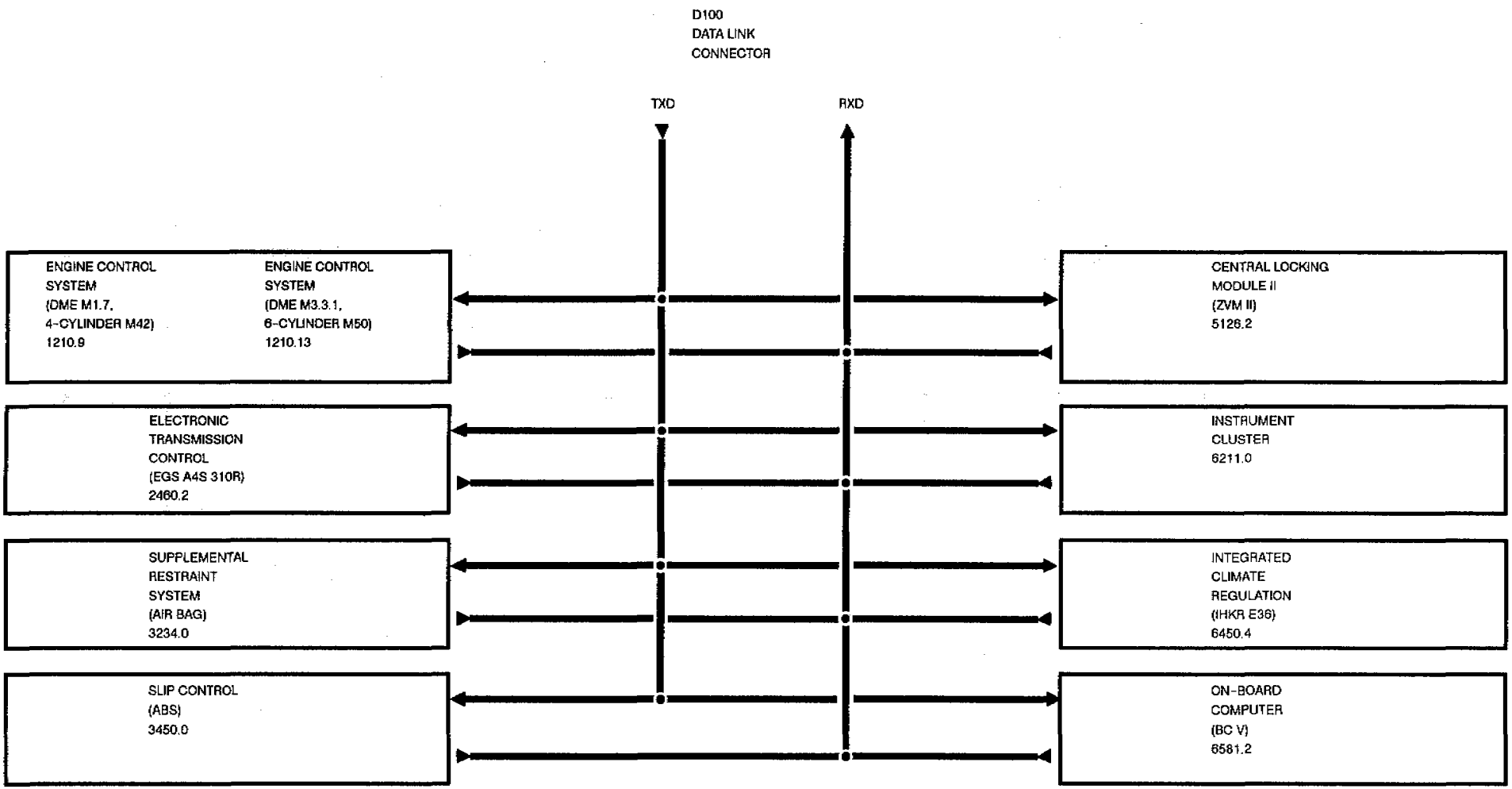
GROUND DISTRIBUTION

GROUNDS X13009, X13016, AND X18723



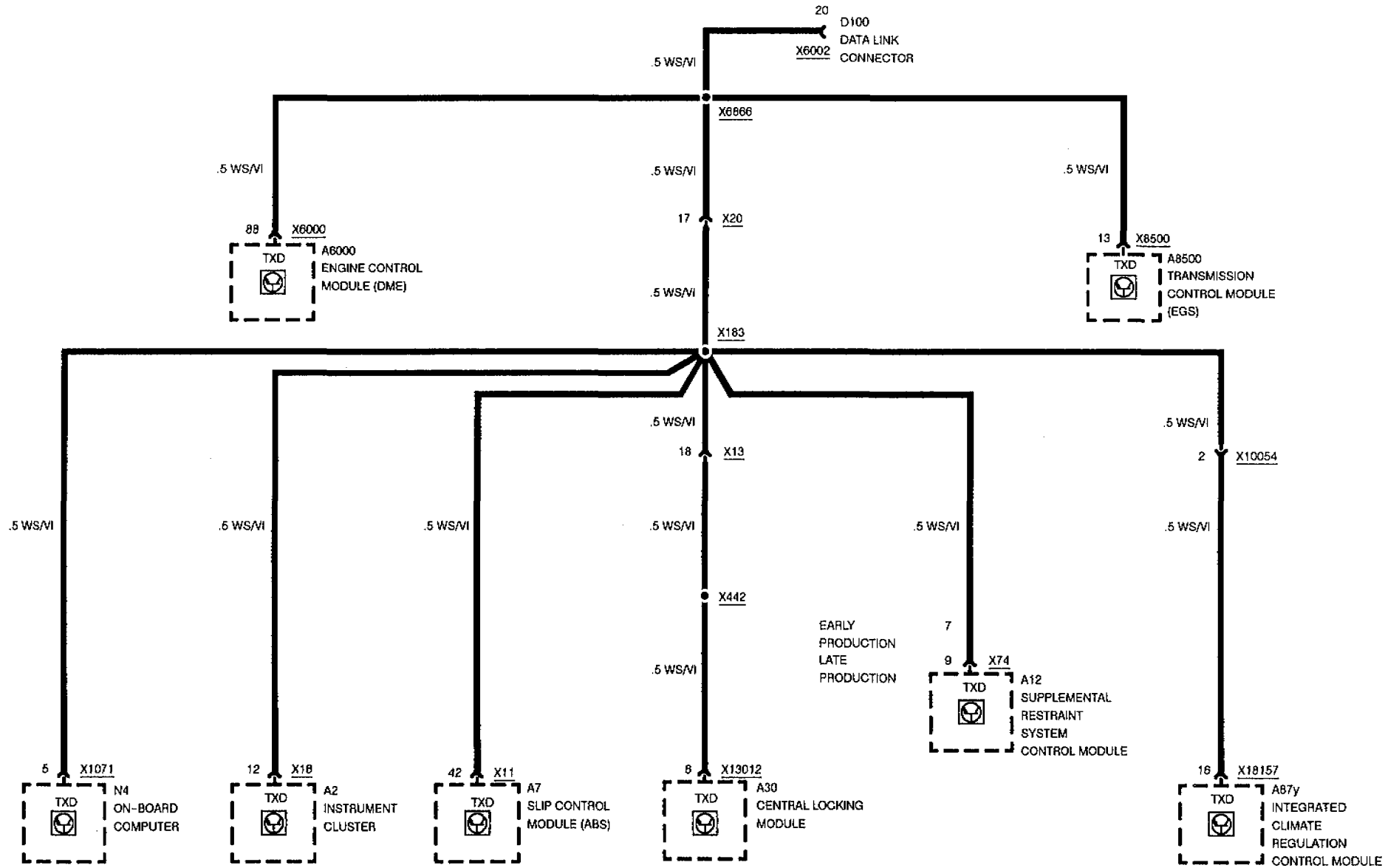
DATA LINK

BLOCK DIAGRAM



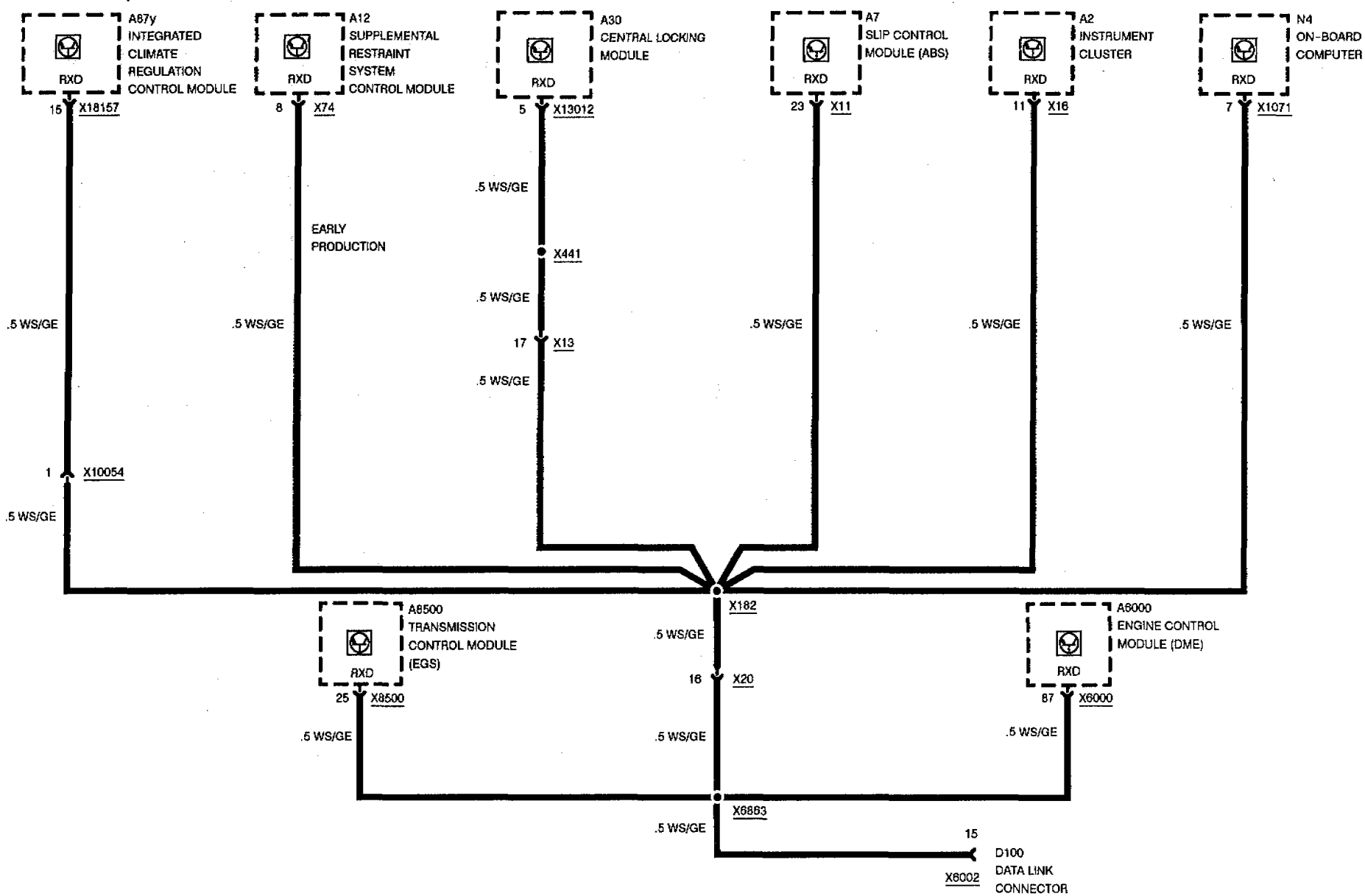
DATA LINK

TXD, PIN 20



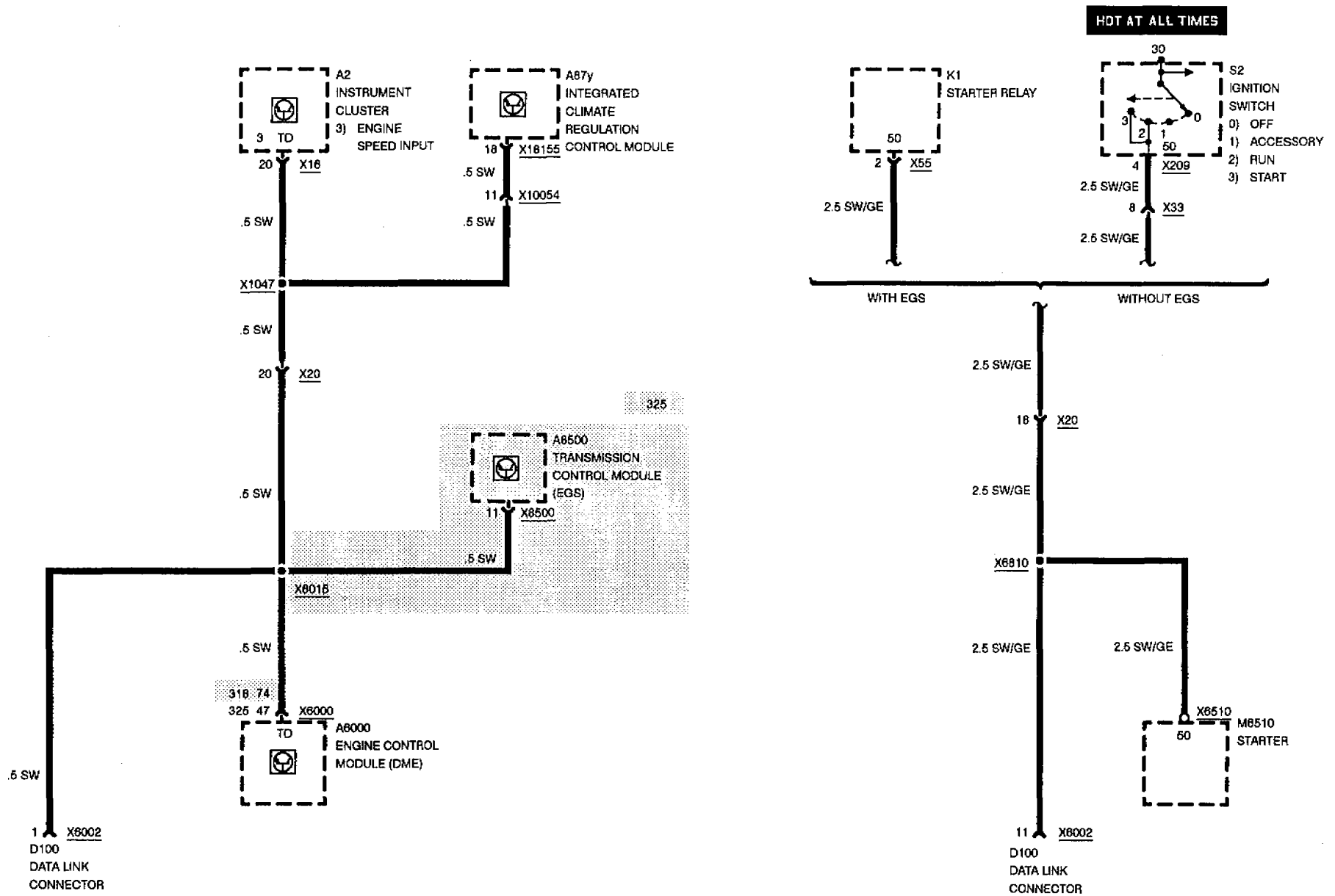
DATA LINK

RXD, PIN 15



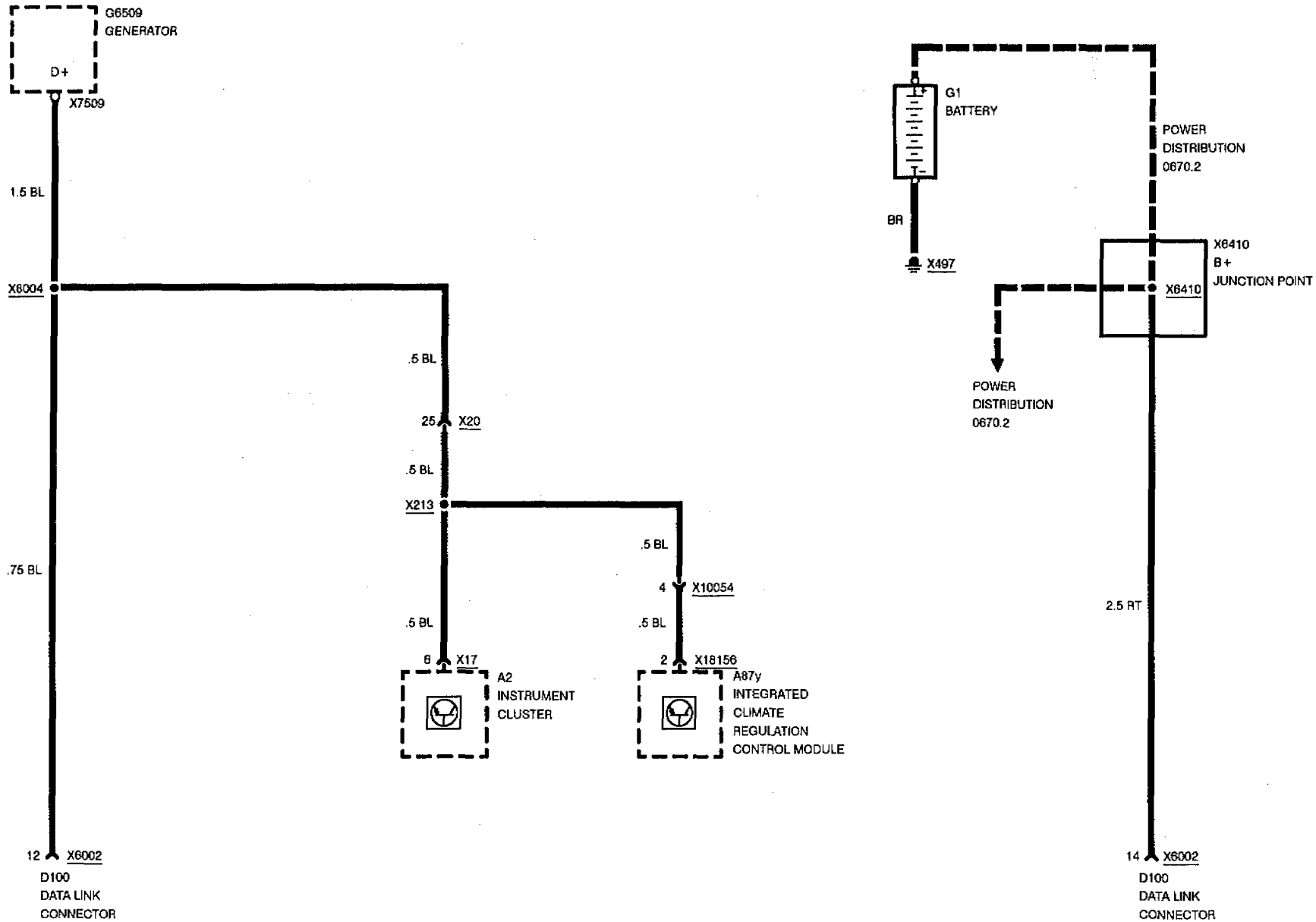
DATA LINK

DATA LINK PINS 1 AND 11



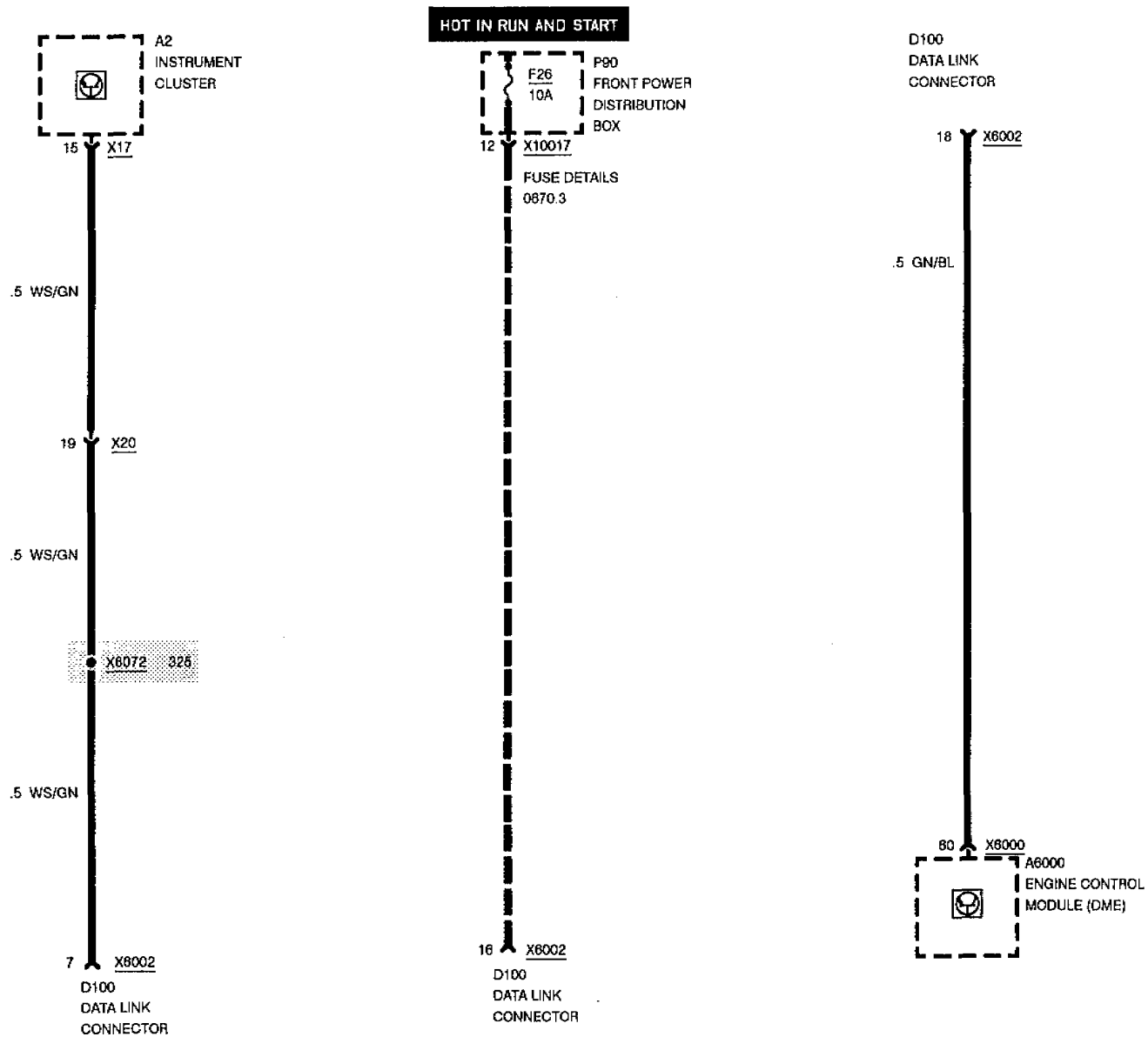
DATA LINK

DATA LINK PINS 12 AND 14

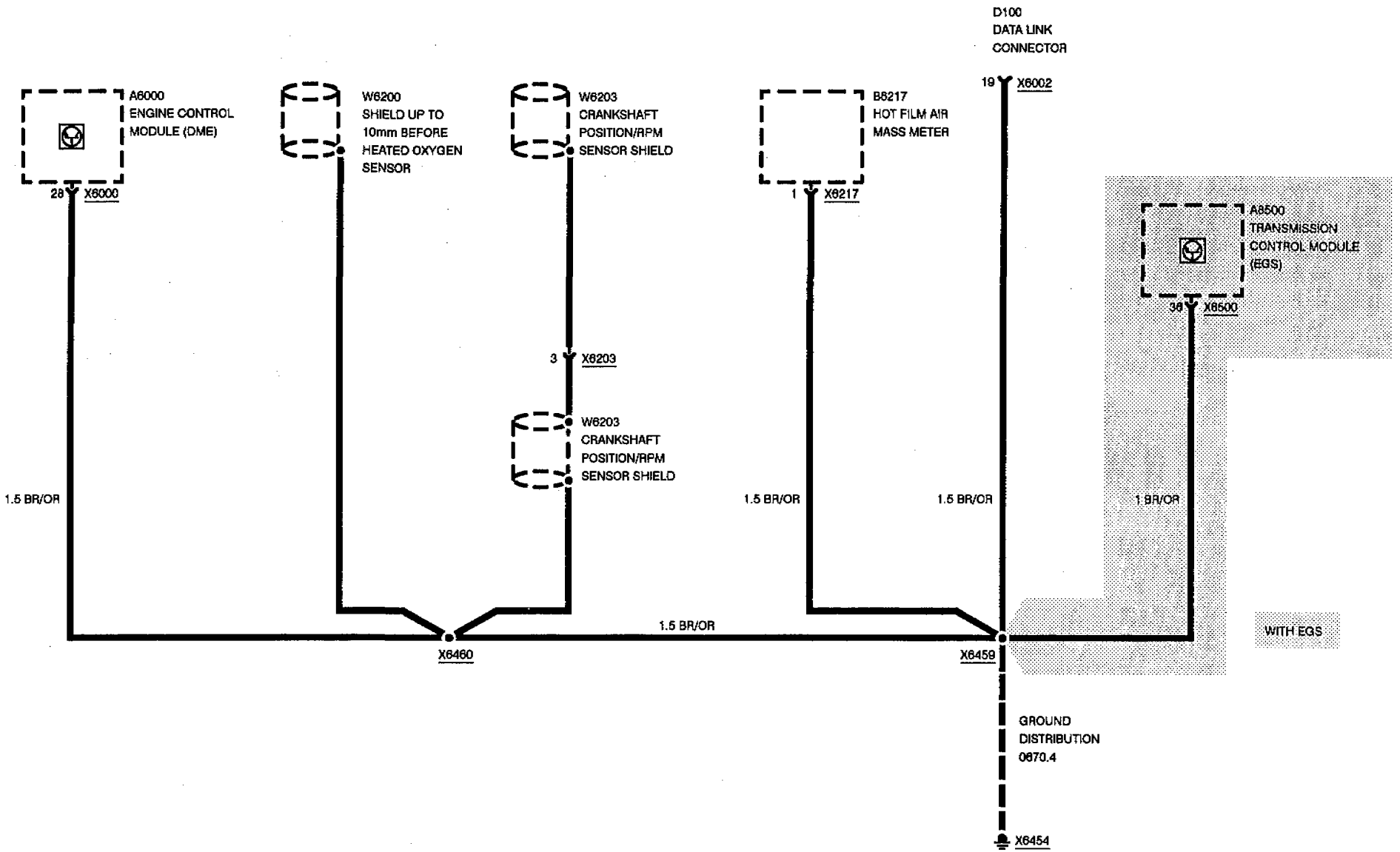


DATA LINK

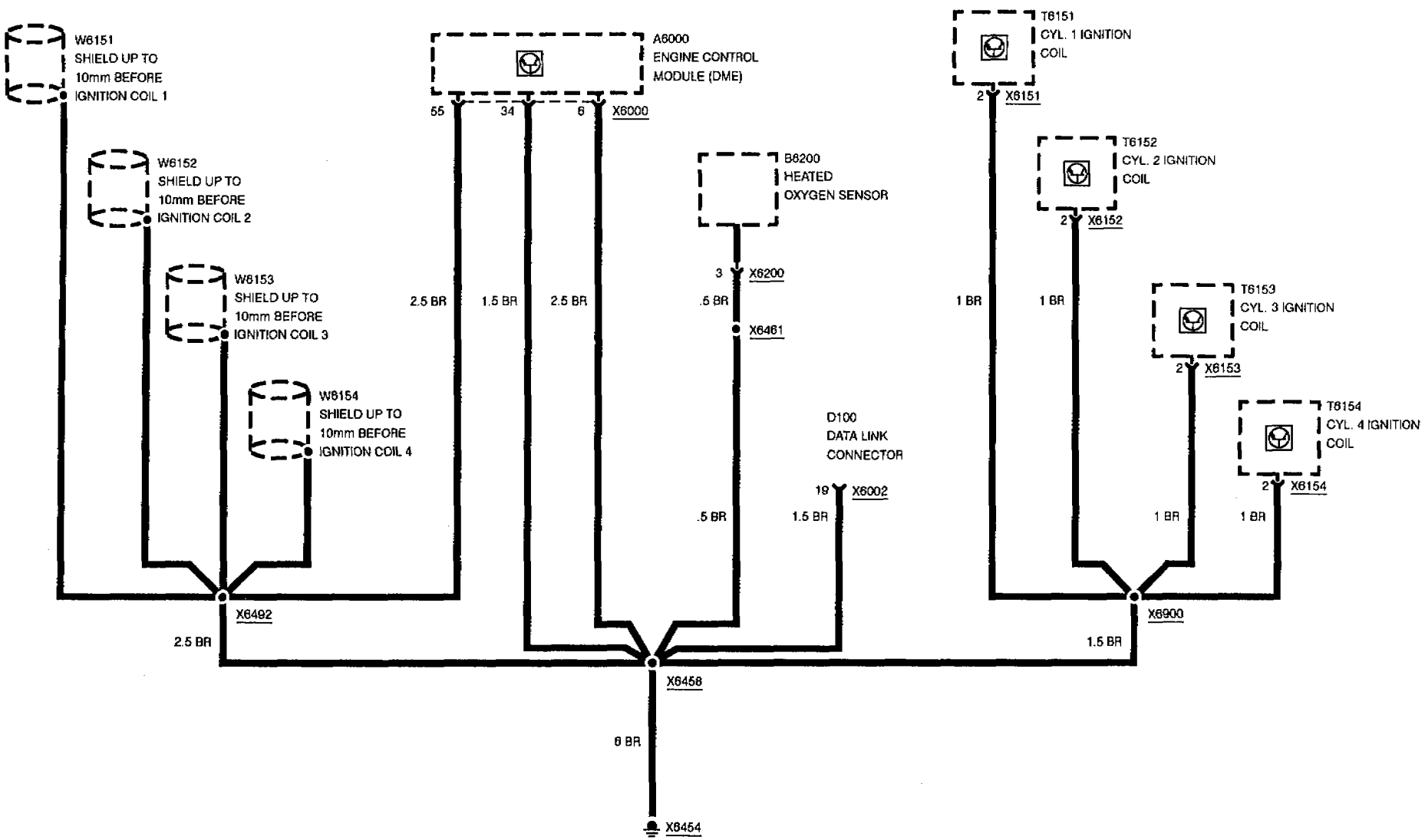
DATA LINK PINS 7, 16, AND 18



DATA LINK CONNECTOR PIN 19

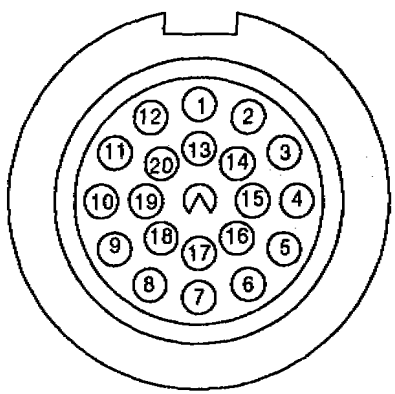


DATA LINK CONNECTOR PIN 19

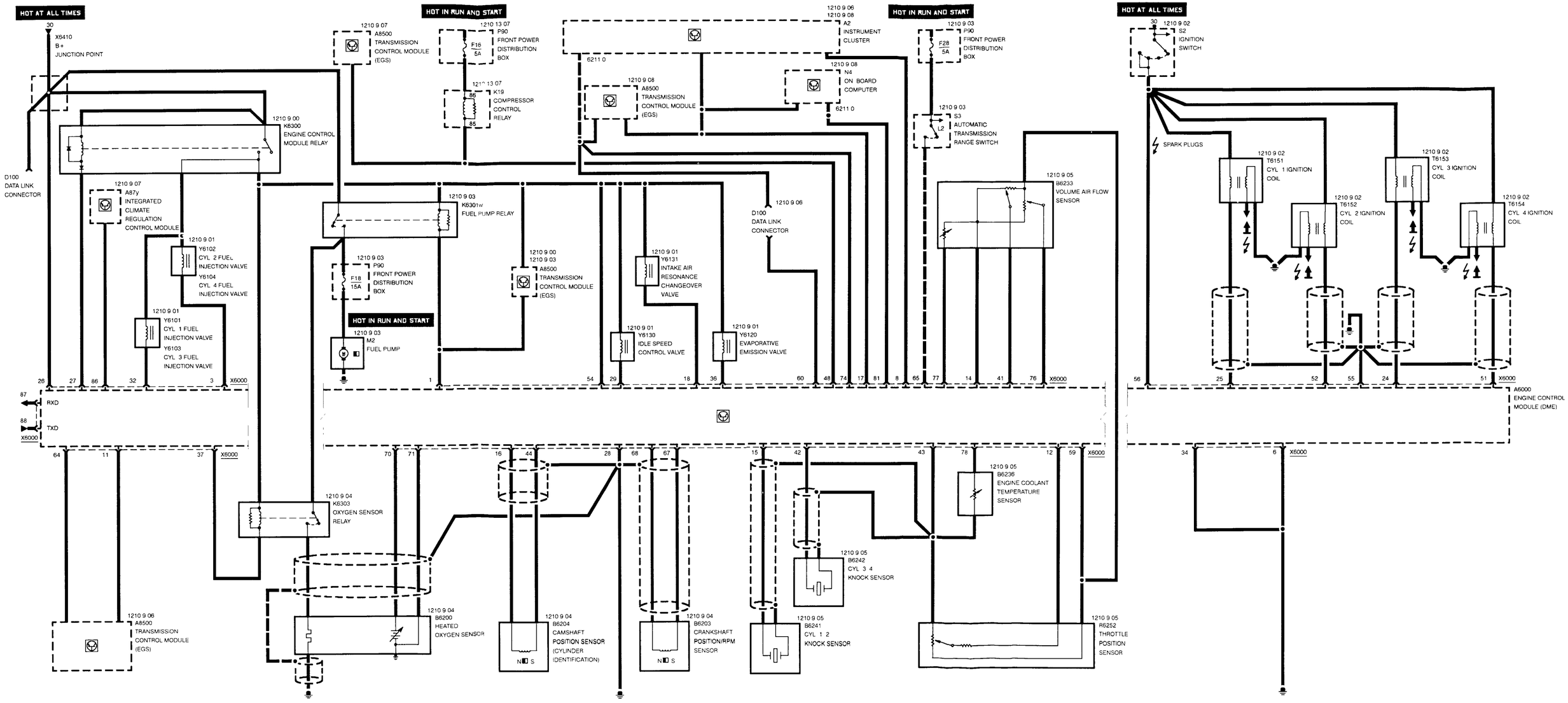


DATA LINK

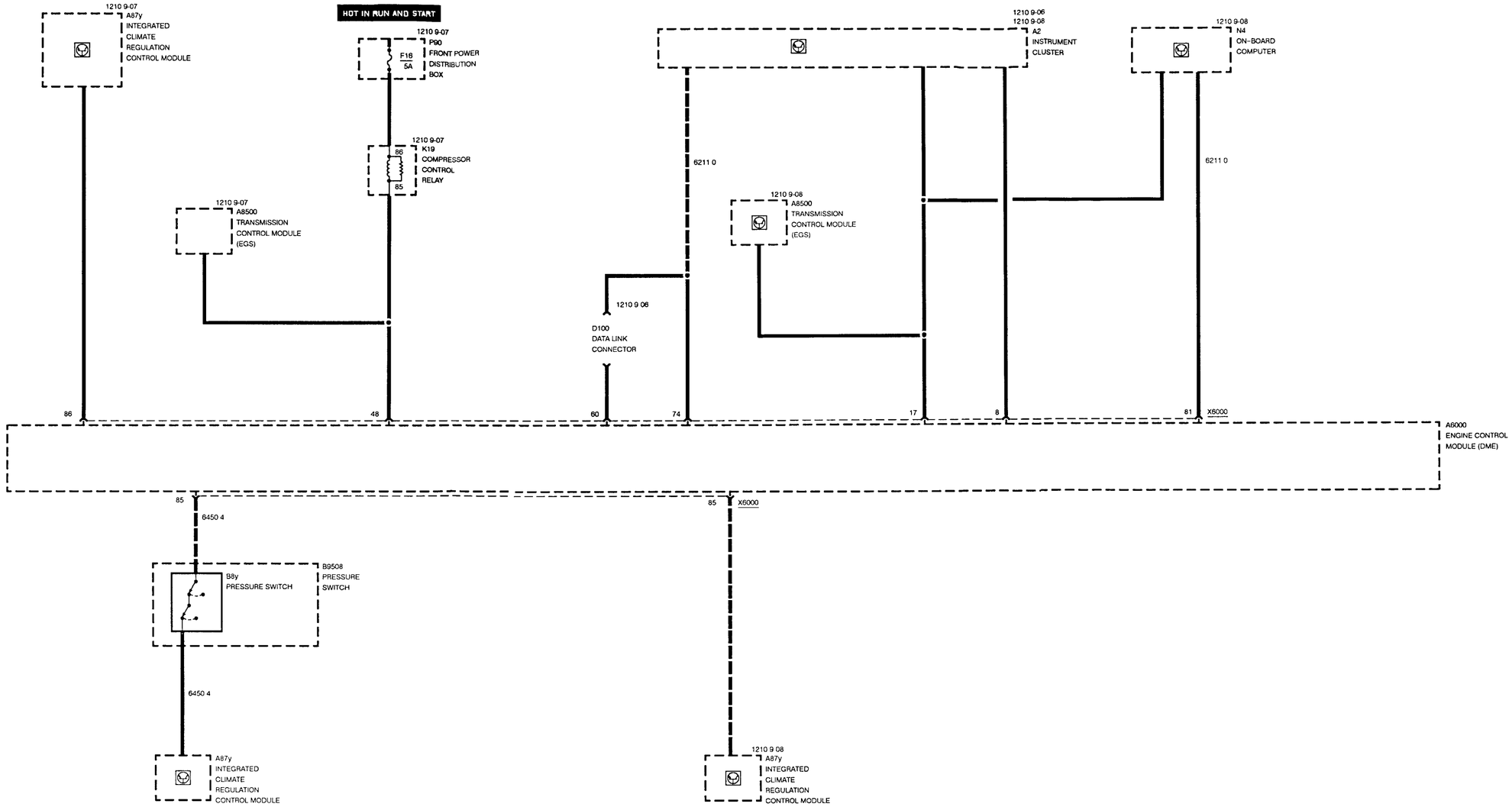
DATA LINK CONNECTOR (X6002)

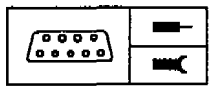


PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	-	MOTOR	SW
2	-	NOT OCCUPIED	
3	-	NOT OCCUPIED	
4	-	NOT OCCUPIED	
5	-	NOT OCCUPIED	
6	-	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	-	NOT OCCUPIED	
9	-	NOT OCCUPIED	
10	-	NOT OCCUPIED	
11	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	-	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	-	NOT OCCUPIED	
18	-	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI


HOT AT ALL TIMES
30
X6410
B+
JUNCTION POINT
D100
DATA LINK
CONNECTOR
1210 9 00
K6300
ENGINE CONTROL
MODULE RELAY
1210 9 07
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 9 01
Y6102
CYL 2 FUEL
INJECTION VALVE
Y6104
CYL 4 FUEL
INJECTION VALVE
1210 9 01
Y6101
CYL 1 FUEL
INJECTION VALVE
Y6103
CYL 3 FUEL
INJECTION VALVE
26 27 86 32 3 X6000
87
RXD
88
TXD
X6000
64 11 37 X6000
1210 9 06
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
HOT IN RUN AND START
1210 9 07
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 07
P90
FRONT POWER
DISTRIBUTION
BOX
F16
5A
1210 13 07
K19
COMPRESSOR
CONTROL
RELAY
86
85
1210 9 03
K6301w
FUEL PUMP RELAY
1210 9 03
P90
FRONT POWER
DISTRIBUTION
BOX
F18
15A
HOT IN RUN AND START
1210 9 03
M2
FUEL PUMP
1 54 29 18 36 60 48 74 17 81 8 65 X6000
1210 9 00
1210 9 03
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 9 01
Y6131
INTAKE AIR
RESONANCE
CHANGEOVER
VALVE
1210 9 01
Y6130
IDLE SPEED
CONTROL VALVE
1210 9 01
Y6120
EVAPORATIVE
EMISSION VALVE
1210 9 06
D100
DATA LINK
CONNECTOR
1210 9 04
K6303
OXYGEN SENSOR
RELAY
70 71 X6000
1210 9 04
B6200
HEATED
OXYGEN SENSOR
16 44 28 68 67 X6000
1210 9 04
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
N S
1210 9 04
B6203
CRANKSHAFT
POSITION/RPM
SENSOR
N S
1210 9 06
1210 9 08
A2
INSTRUMENT
CLUSTER
6211 0
1210 9 08
N4
ON BOARD
COMPUTER
6211 0
HOT IN RUN AND START
1210 9 03
P90
FRONT POWER
DISTRIBUTION
BOX
F28
5A
1210 9 03
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L2
1210 9 05
B6233
VOLUME AIR FLOW
SENSOR
77 14 41 76 X6000
15 42 43 78 12 59 X6000
1210 9 05
B6242
CYL 3 4
KNOCK SENSOR
1210 9 05
B6241
CYL 1 2
KNOCK SENSOR
1210 9 05
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
1210 9 05
R6252
THROTTLE
POSITION
SENSOR
HOT AT ALL TIMES
30
1210 9 02
S2
IGNITION
SWITCH
SPARK PLUGS
1210 9 02
T6151
CYL 1 IGNITION
COIL
1210 9 02
T6152
CYL 2 IGNITION
COIL
1210 9 02
T6153
CYL 3 IGNITION
COIL
1210 9 02
T6154
CYL 4 IGNITION
COIL
56 25 52 55 24 51 X6000
A6000
ENGINE CONTROL
MODULE (DME)
34 6 X6000

12/93 1210.9b 1993
12/93 1210.9b 1993



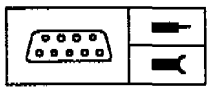


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2		Not used	
3	A	Cyl. 2 and cyl. 4 fuel injection valve control	Cyl. 2 and cyl. 4 fuel injection valves
4		Not used	
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	DKV potentiomenter signal	Transmission control module (EGS)
12	E	Throttle position	Throttle position sensor
13		Not used	
14	E	Volume air flow sensor	Volume air flow sensor
15	E	Cyl. 1-2 knock sensor	Cyl. 1-2 knock sensor
16	E	Camshaft position sensor (cylinder identification)	Camshaft position sensor (cylinder identification)
17	A	ti measurement signal (fuel consumption)	Instrument cluster
18	A	Intake air resonance changeover valve control	Intake air resonance changeover valve
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point
29	A	Idle speed control valve control	Idle speed control valve
30		Not used	
31		Not used	

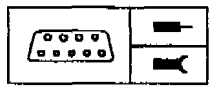
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
32	A	Cyl. 1 and cyl. 3 fuel injection valve control	Cyl. 1 and cyl. 3 fuel injection valves
33		Not used	
34	M	Ground, remaning output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
38		Not used	
39		Not used	
40		Not used	
41	E	Volume air flow sensor	Volume air flow sensor
42	E	Cyl. 3-4 knock sensor	Cyl. 3-4 knock sensor
43	M	Ground for sensors	Engine coolant temperature sensor, cyl. 1-2 knock sensor, cyl. 3-4 knock sensor, and throttle position sensor
44	E	Camshaft position sensor (cylinder identification)	Camshaft position sensor (cylinder identification)
45		Not used	
46		Not used	
47		Not used	
48	A	A/C compressor cut-out	Compressor control relay, terminal 85
49		Not used	
50		Not used	
51	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
52	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57		Not used	
58		Not used	
59	A	5V component supply	Throttle position sensor and volume air flow sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	

E = Input, A = Output, M = Ground



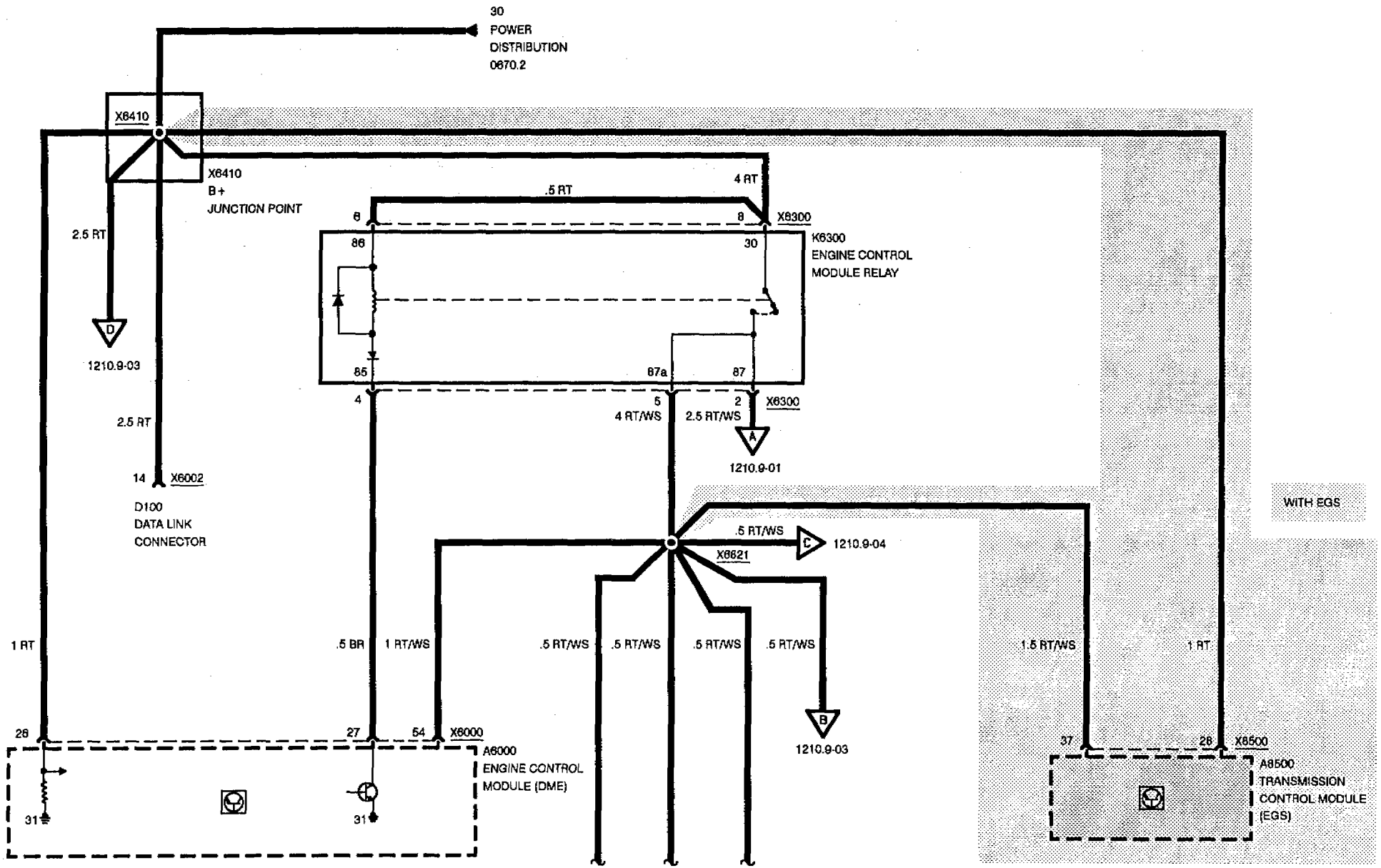
Pin Assignments

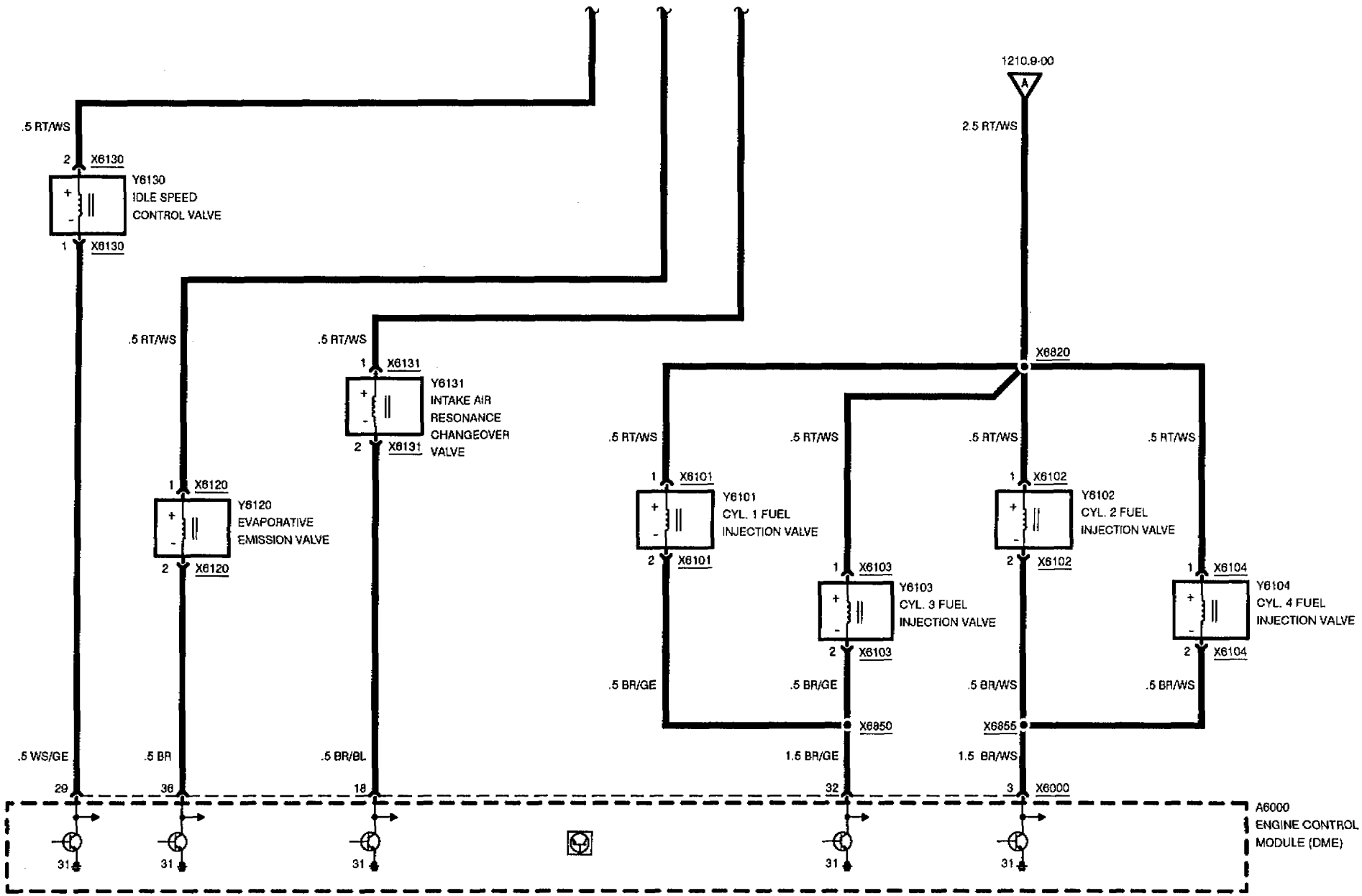
Pin	Type	Description/Function	Connection
63		Not used	
64	E	Ignition timing intervention	Transmission control module (EGS)
65	E	Drive range P/N	Automatic transmission range switch
66		Not used	
67	E	Crankshaft position RPM sensor	Crankshaft position RPM sensor
68	A	Crankshaft position RPM sensor	Crankshaft position RPM sensor
69		Not used	
70	E	Oxygen sensor signal	Heated oxygen sensor
71	M	Oxygen sensor signal ground	Heated oxygen sensor
72		Not used	
73	E	Vehicle speed signal	Instrument cluster
74	A	Crankshaft RPM speed signal TD	Instrument cluster
75		Not used	
76	E	Volume air flow sensor	Volume air flow sensor
77	E	Volume air flow sensor	Volume air flow sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive-away protection signal (code)	On-board computer
82		Not used	
83		Not used	
84		Not used	
85	E	A/C pressure	Pressure switch
86	E	A/C switch	Integrated climate regulation control module
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

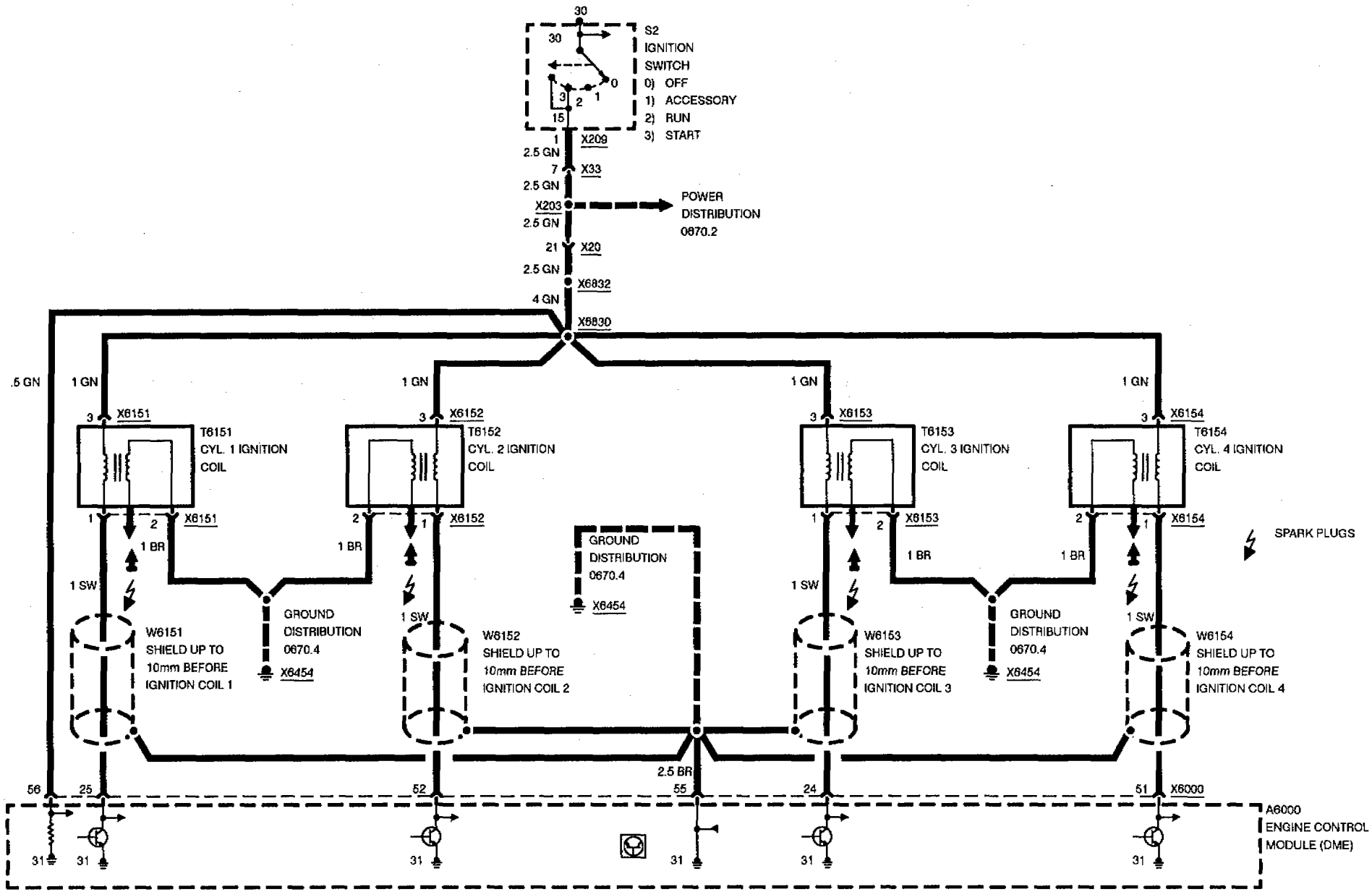
POWER, FUEL INJECTION VALVES




1210.9-00
A
.5 RT/WS
2
X6130
Y6130
IDLE SPEED
CONTROL VALVE
1
X6130
.5 RT/WS
1
X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2
X6120
.5 RT/WS
1
X6131
Y6131
INTAKE AIR
RESONANCE
CHANGEOVER
VALVE
2
X6131
2.5 RT/WS
X6820
.5 RT/WS
1
X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2
X6101
.5 RT/WS
1
X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2
X6103
.5 RT/WS
1
X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2
X6102
.5 RT/WS
1
X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
2
X6104
.5 BR/GE
.5 BR/GE
.5 BR/WS
.5 BR/WS
X6850
X6855
.5 WS/GE
29
.5 BR
36
.5 BR/BL
18
1.5 BR/GE
32
1.5 BR/WS
3
X6000
31
31
31
31
31
A6000
ENGINE CONTROL
MODULE (DME)

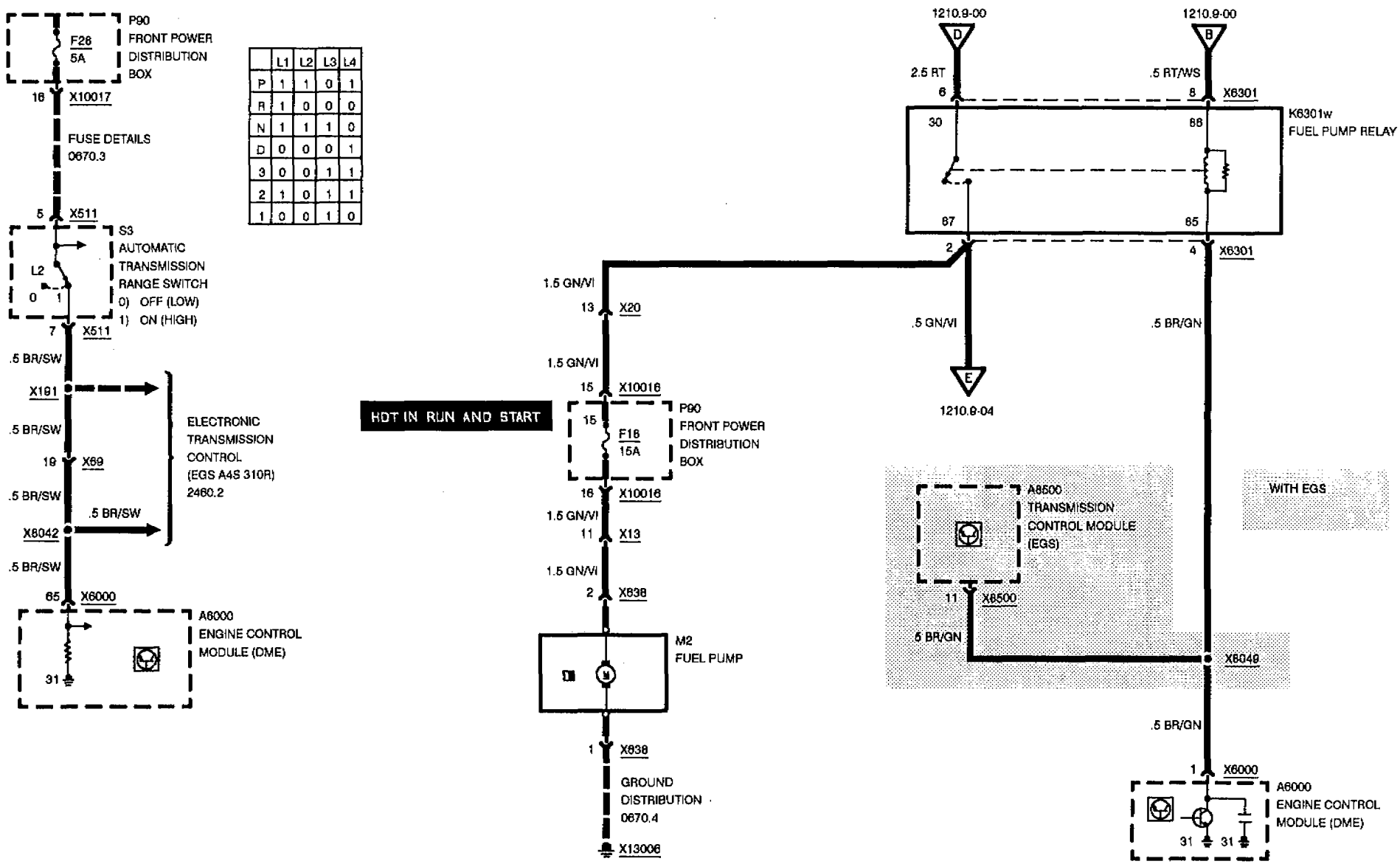
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

IGNITION COILS



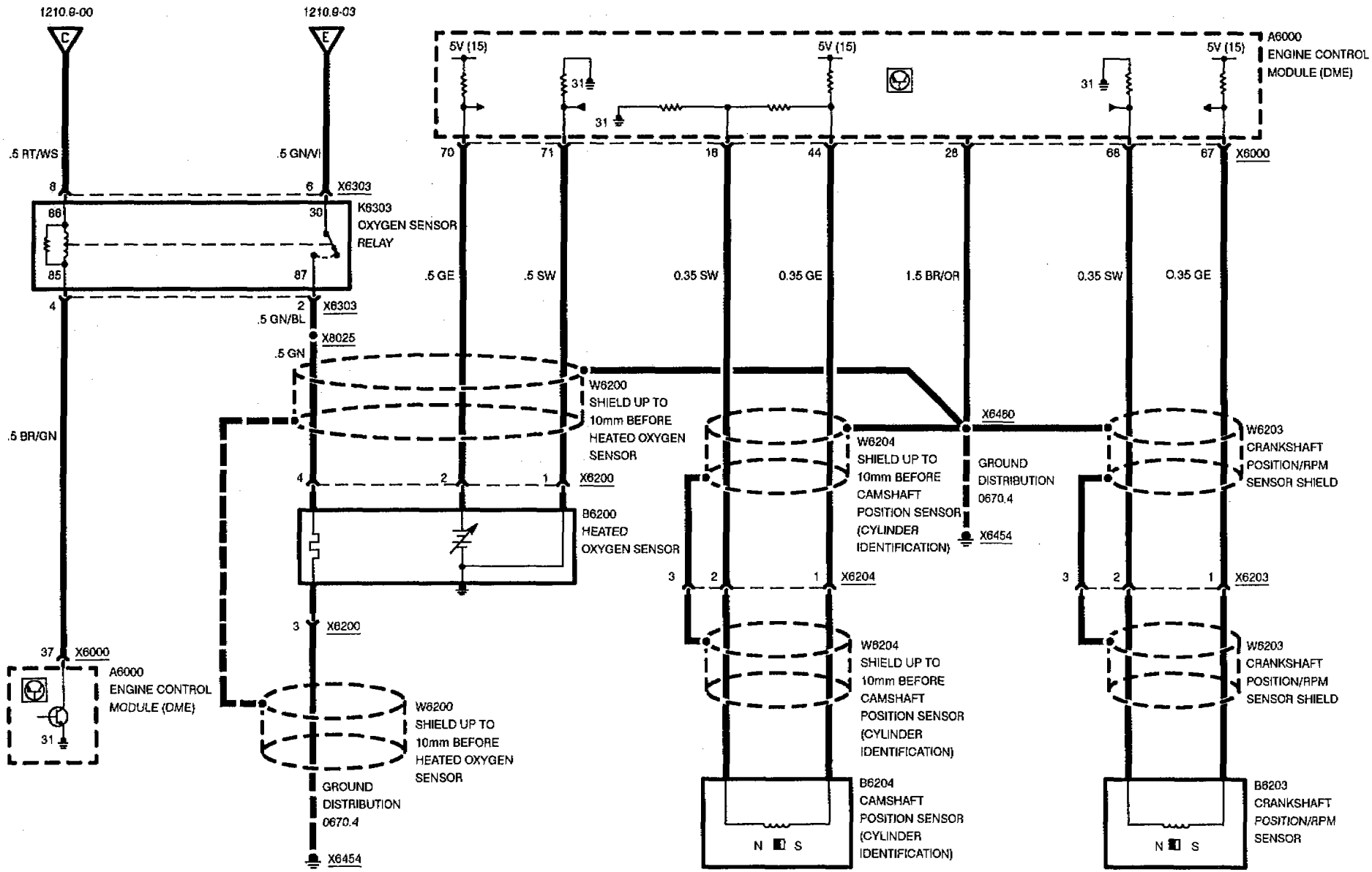
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

FUEL PUMP

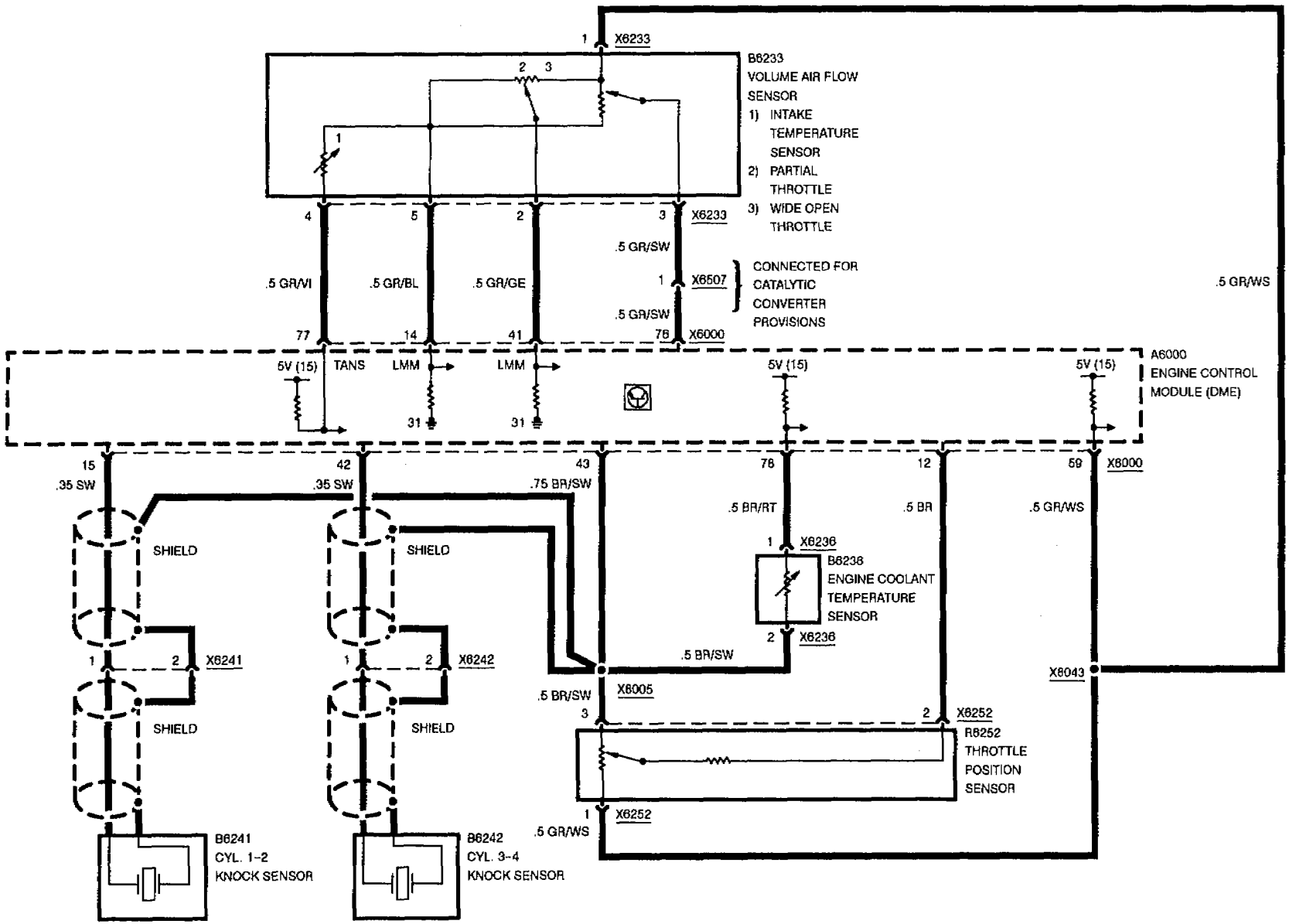


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

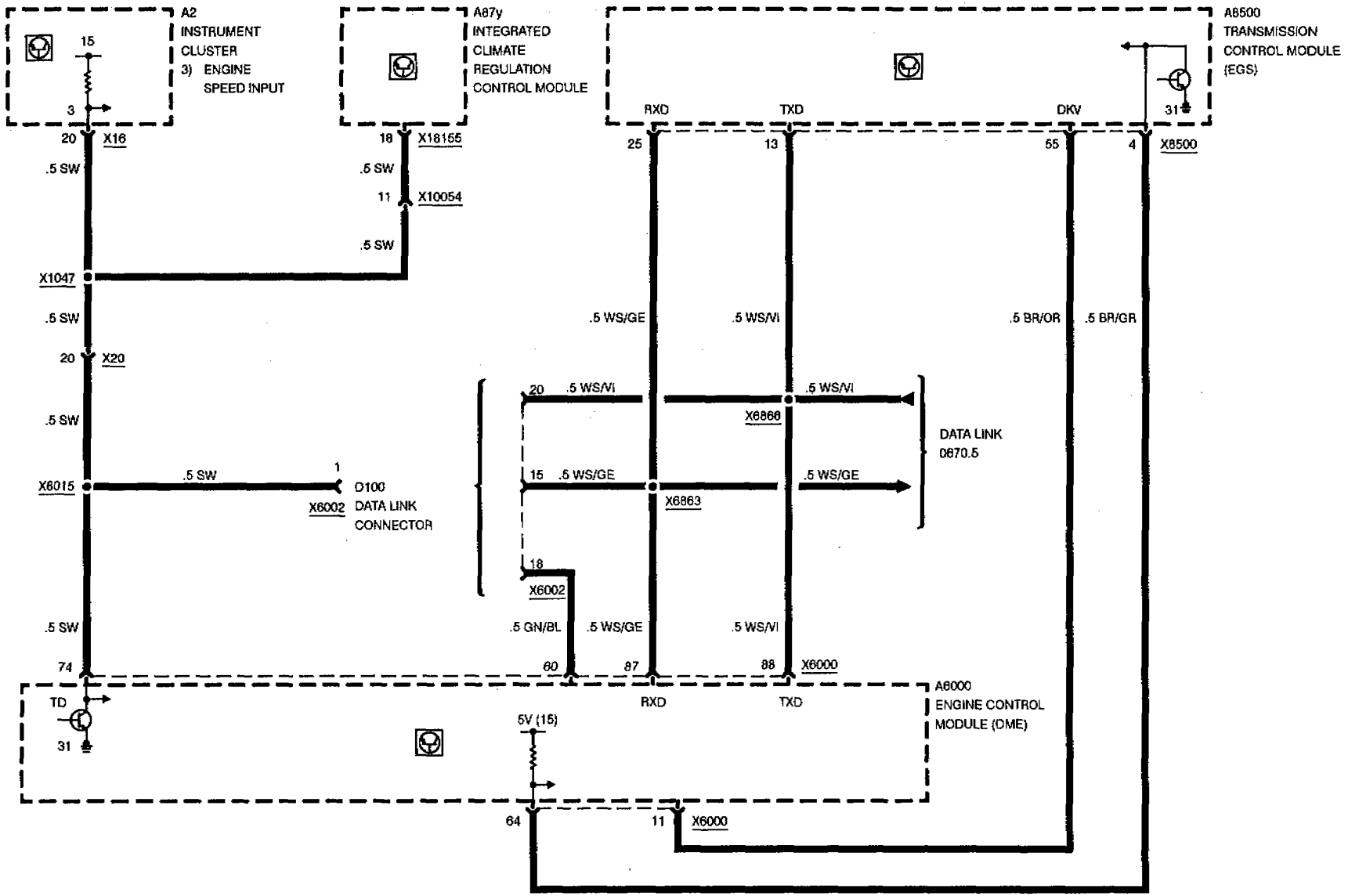


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

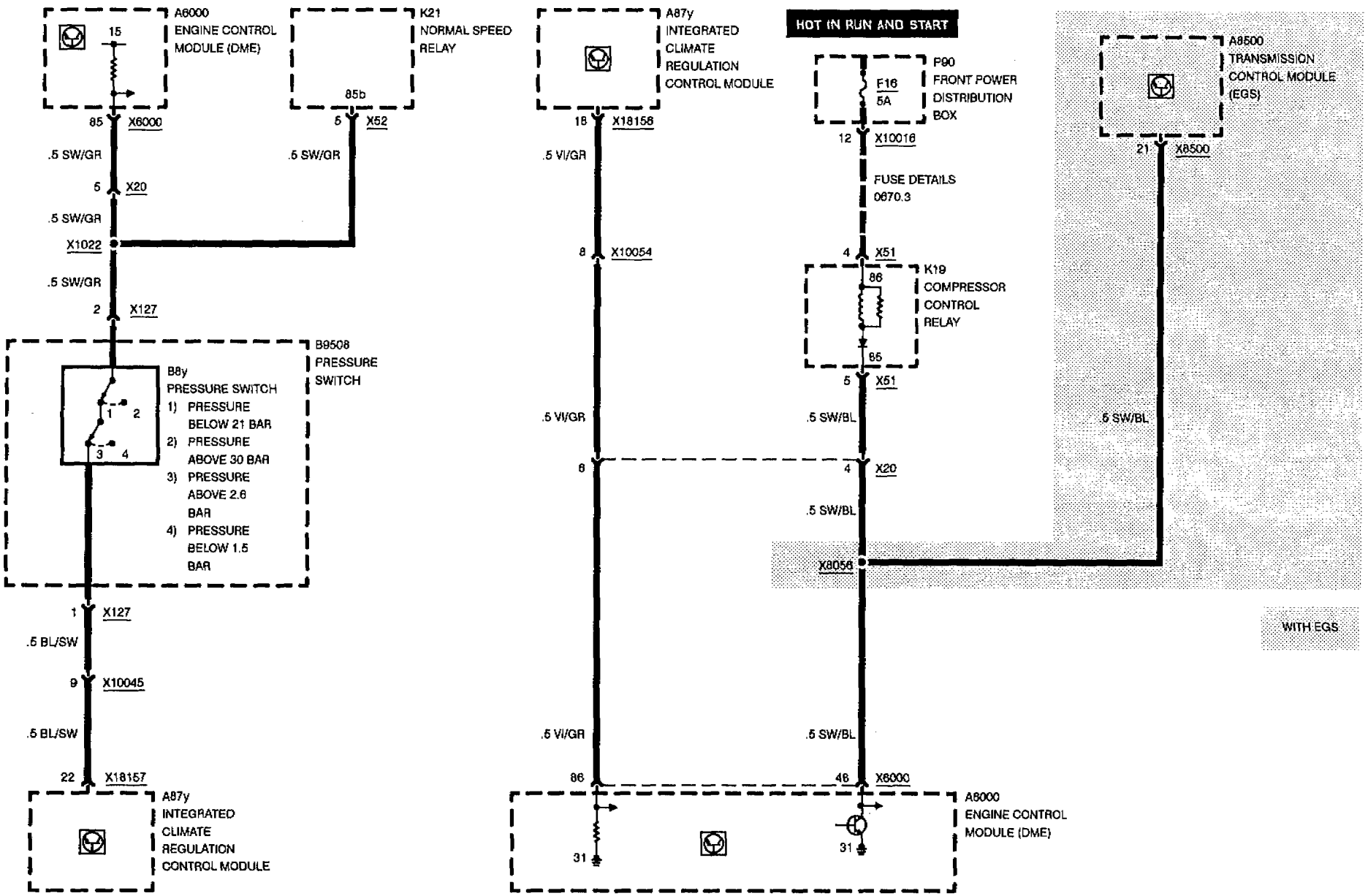


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

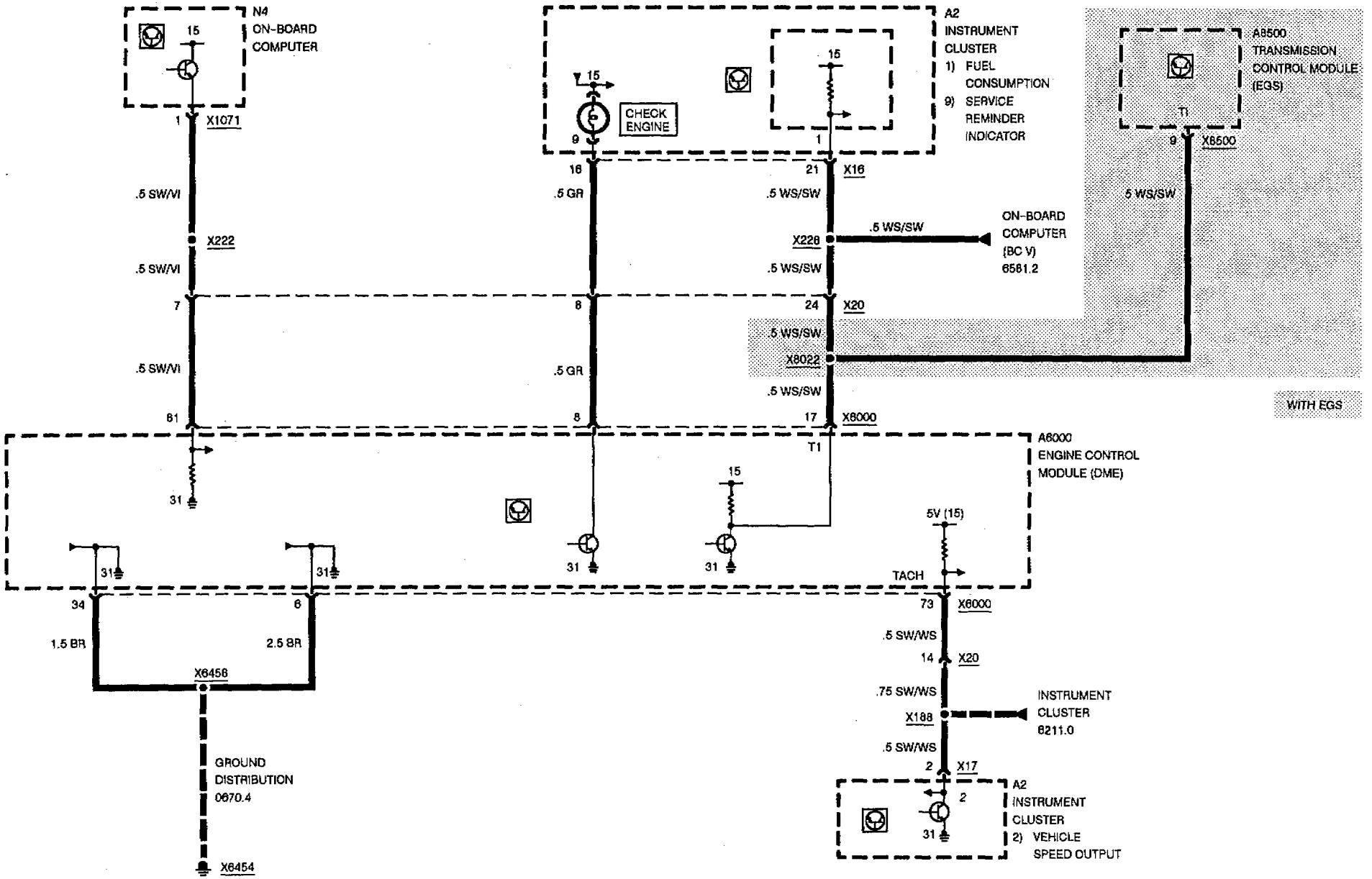
DATA LINK

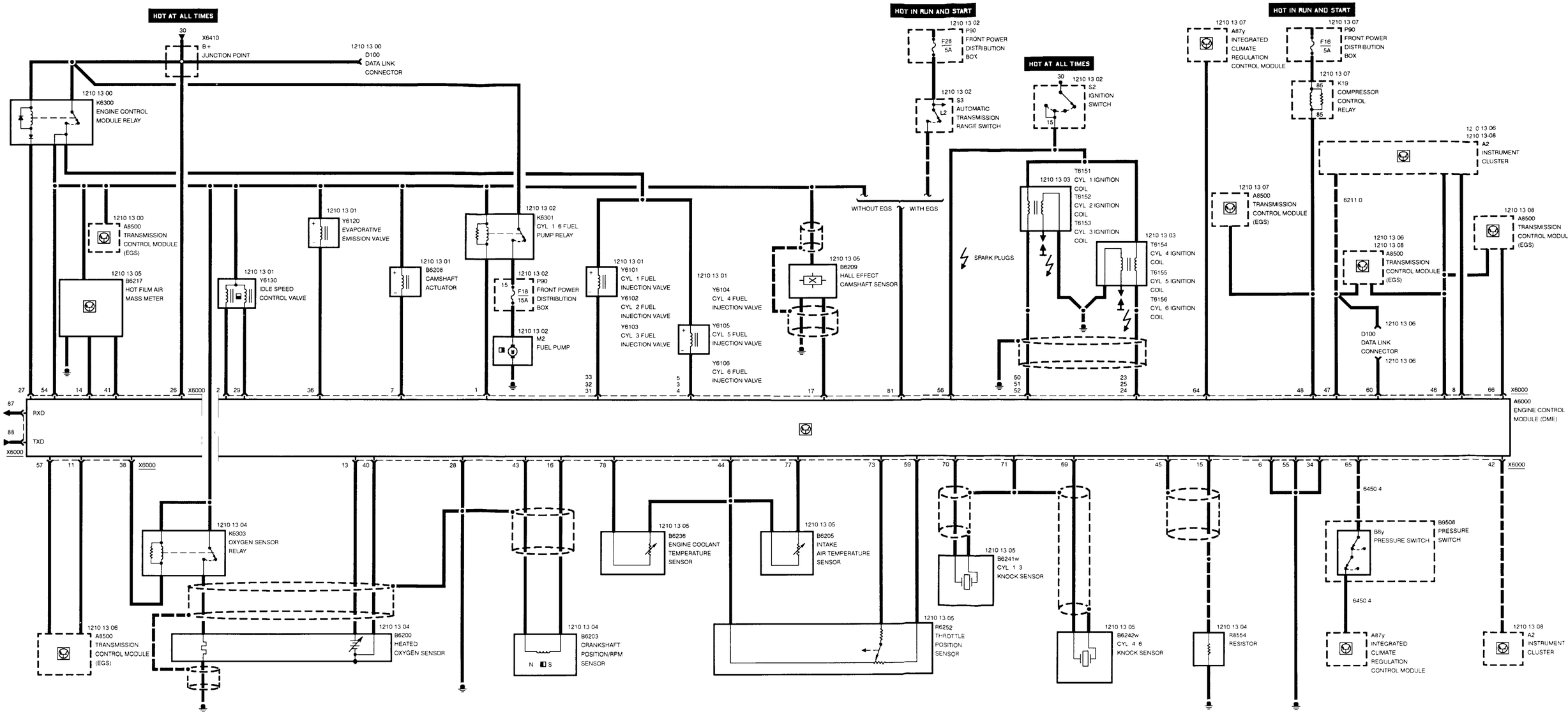


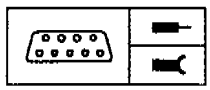
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)




HOT AT ALL TIMES
30
X6410
B+
JUNCTION POINT
1210 13 00
D100
DATA LINK
CONNECTOR
1210 13 00
K6300
ENGINE CONTROL
MODULE RELAY
1210 13 00
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 05
B6217
HOT FILM AIR
MASS METER
1210 13 01
Y6130
IDLE SPEED
CONTROL VALVE
1210 13 01
Y6120
EVAPORATIVE
EMISSION VALVE
1210 13 01
B6208
CAMSHAFT
ACTUATOR
1210 13 02
K6301
CYL 1 6 FUEL
PUMP RELAY
F18
15A
1210 13 02
P90
FRONT POWER
DISTRIBUTION
BOX
1210 13 02
M2
FUEL PUMP
1210 13 01
Y6101
CYL 1 FUEL
INJECTION VALVE
Y6102
CYL 2 FUEL
INJECTION VALVE
Y6103
CYL 3 FUEL
INJECTION VALVE
1210 13 01
Y6104
CYL 4 FUEL
INJECTION VALVE
Y6105
CYL 5 FUEL
INJECTION VALVE
Y6106
CYL 6 FUEL
INJECTION VALVE
1210 13 05
B6209
HALL EFFECT
CAMSHAFT SENSOR
WITHOUT EGS
WITH EGS
HOT IN RUN AND START
1210 13 02
P90
FRONT POWER
DISTRIBUTION
BOX
F28
5A
1210 13 02
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L2
HOT AT ALL TIMES
30
1210 13 02
S2
IGNITION
SWITCH
15
SPARK PLUGS
T6151
1210 13 03
CYL 1 IGNITION
COIL
T6152
CYL 2 IGNITION
COIL
T6153
CYL 3 IGNITION
COIL
1210 13 03
T6154
CYL 4 IGNITION
COIL
T6155
CYL 5 IGNITION
COIL
T6156
CYL 6 IGNITION
COIL
HOT IN RUN AND START
1210 13 07
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 13 07
P90
FRONT POWER
DISTRIBUTION
BOX
F16
5A
1210 13 07
K19
COMPRESSOR
CONTROL
RELAY
86
85
1210 13 07
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
12 0 13 06
1210 13-08
A2
INSTRUMENT
CLUSTER
6211 0
1210 13 08
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 06
1210 13 08
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 06
D100
DATA LINK
CONNECTOR
1210 13 06
87
RXD
88
TXD
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210 13 04
K6303
OXYGEN SENSOR
RELAY
1210 13 06
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 04
B6200
HEATED
OXYGEN SENSOR
1210 13 04
B6203
CRANKSHAFT
POSITION/RPM
SENSOR
N
S
1210 13 05
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
1210 13 05
B6205
INTAKE
AIR TEMPERATURE
SENSOR
1210 13 05
R6252
THROTTLE
POSITION
SENSOR
1210 13 05
B6241w
CYL 1 3
KNOCK SENSOR
1210 13 05
B6242w
CYL 4 6
KNOCK SENSOR
1210 13 04
R8554
RESISTOR
6450 4
B8y
PRESSURE SWITCH
B9508
PRESSURE
SWITCH
6450 4
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 13 08
A2
INSTRUMENT
CLUSTER

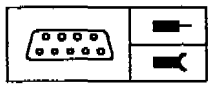


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2	A	Idle speed control valve - close winding control	Idle speed control valve
3	A	Cyl 5 fuel injection valve control	Cyl 5 fuel injection valve
4	A	Cyl 6 fuel injection valve control	Cyl 6 fuel injection valve
5	A	Cyl 4 fuel injection valve control	Cyl 4 fuel injection valve
6	M	Ground, fuel injection valve output stages	Ground point
7	A	Camshaft actuator control	Camshaft actuator
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	Throttle valve position	Transmission control module (EGS)
12		Not used	
13	E	Oxygen sensor signal	Heated oxygen sensor
14	A	Hot film air mass meter	Hot film air mass meter
15	M	Ground	Ground point
16	E	Crankshaft position/RPM sensor signal (+)	Crankshaft position/RPM sensor
17	E	Camshaft position sensor	Hall effect camshaft sensor
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl 4 ignition coil control	Cyl 4 ignition coil
24	A	Cyl 6 ignition coil control	Cyl 6 ignition coil
25	A	Cyl 5 ignition coil control	Cyl 5 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point
29	A	Idle speed control valve - opening winding control	Idle speed control valve
30		Not used	
31	A	Cyl 3 fuel injection valve control	Cyl 3 fuel injection valve

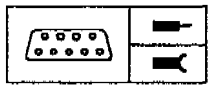
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
32	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
33	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
34	M	Ground remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37		Not used	
38	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
39		Not used	
40	M	Oxygen sensor signal ground	Heated oxygen sensor
41	E	Hot wire air mass meter	Hot wire air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	E	Crankshaft position/RPM sensor signal (-)	Crankshaft position/RPM sensor
44	M	Ground for sensors	Engine intake air temperature sensor, engine coolant temperature sensor, and throttle position sensor
45	M	Ground for shield	Shield
46	A	ti measurement signal (fuel consumption)	Instrument cluster
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	A	A/C compressor control	Compressor control relay, terminal 85
49		Not used	
50	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
51	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
52	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch
57	E	Ignition timing intervention	Transmission control module (EGS)
58		Not used	
59	A	5V component supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	

E = Input, A = Output, M = Ground



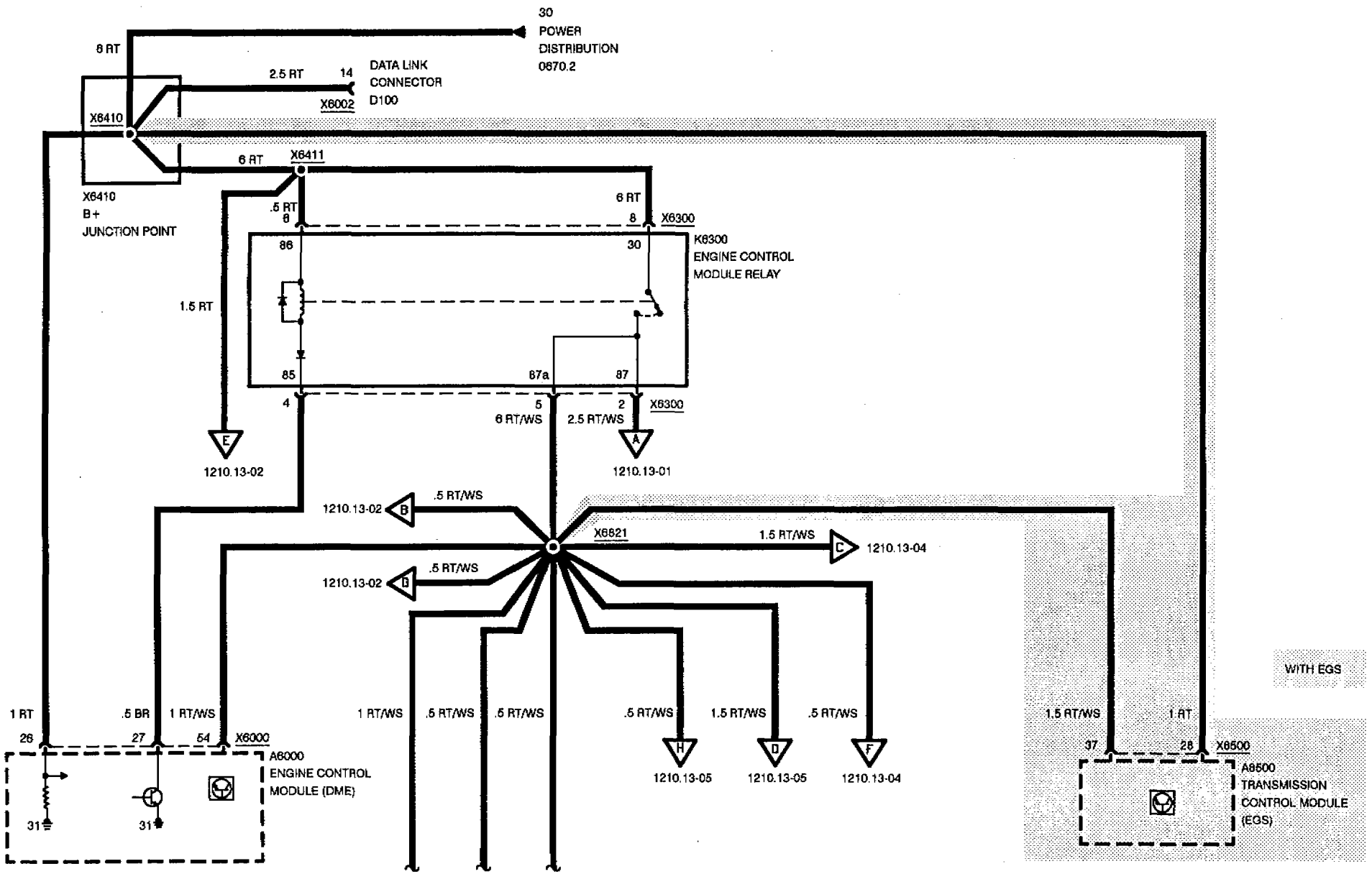
Pin Assignments

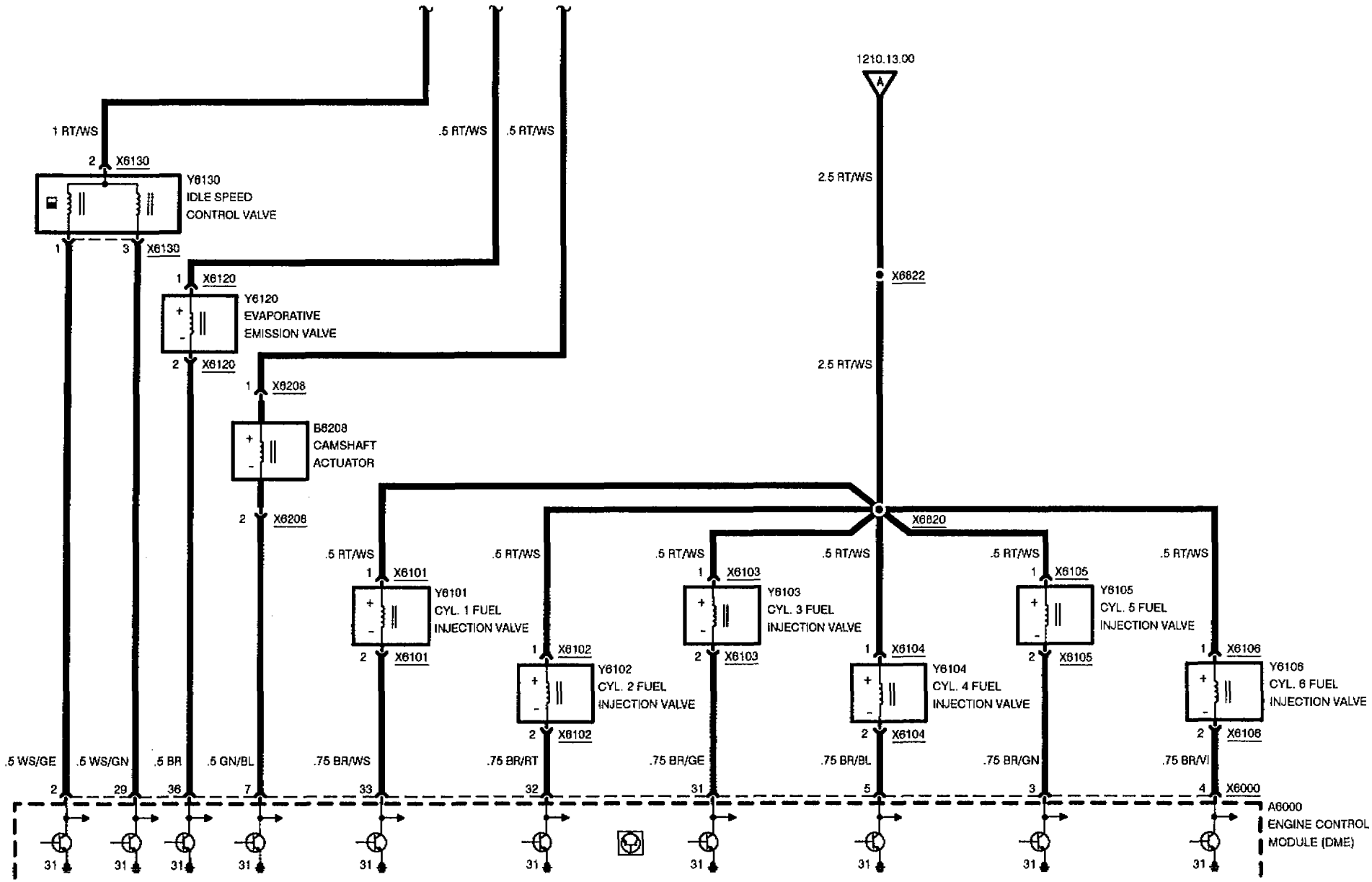
Pin	Type	Description/Function	Connection
64	E	A/C switch	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch
66	E	Drive-away protection signal (code)	On-board computer
67		Not used	
68		Not used	
69	E	Cyl. 4-6 knock sensor	Cyl. 4-6 knock sensor
70	E	Cyl. 1-3 knock sensor	Cyl. 1-3 knock sensor
71	M	Ground for knock sensors and shields	Cyl. 1-3 knock sensor, cyl. 4-6 knock sensor, and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive range P/N	Automatic transmission range switch
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

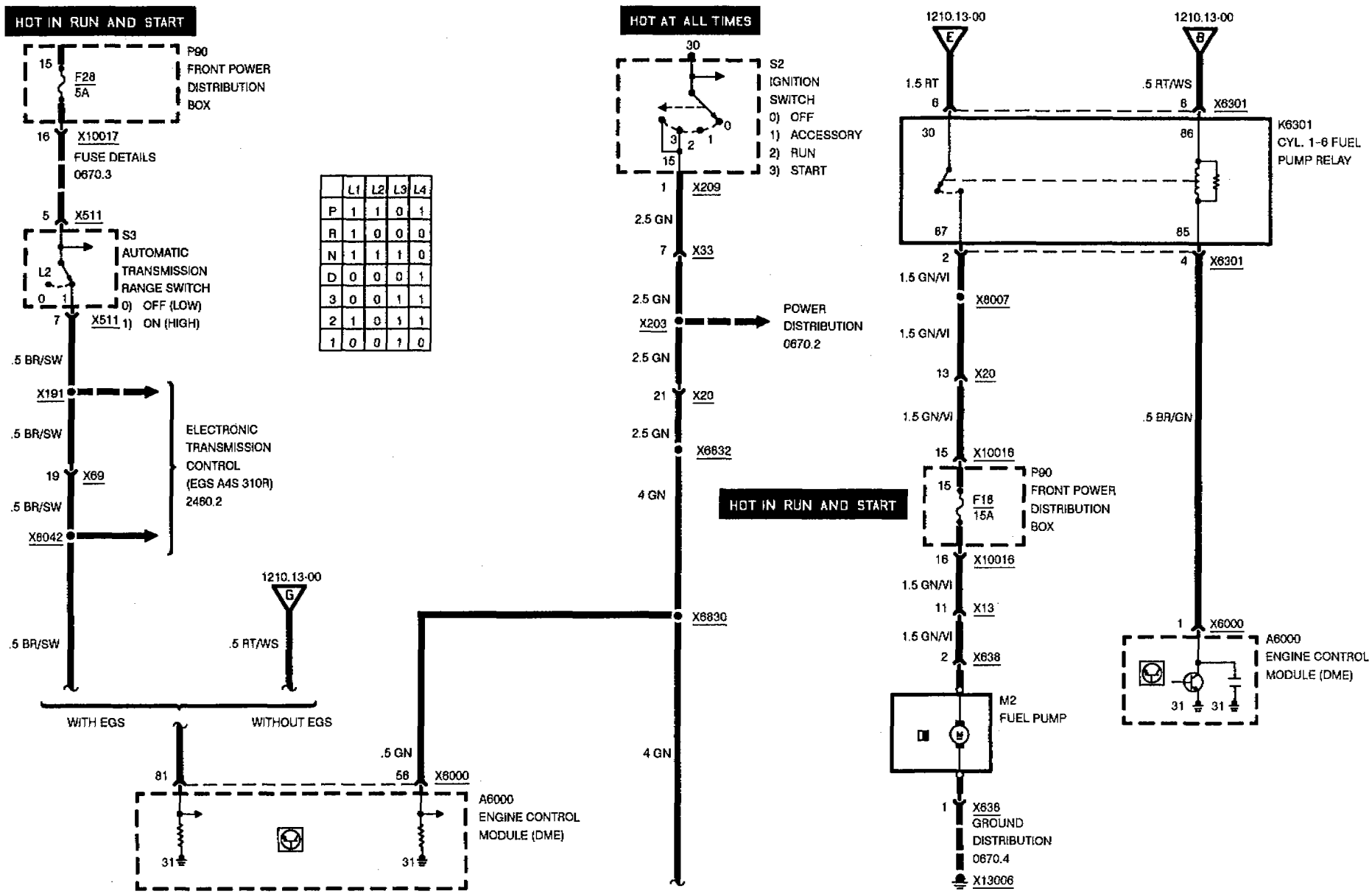
POWER, FUEL INJECTION VALVES

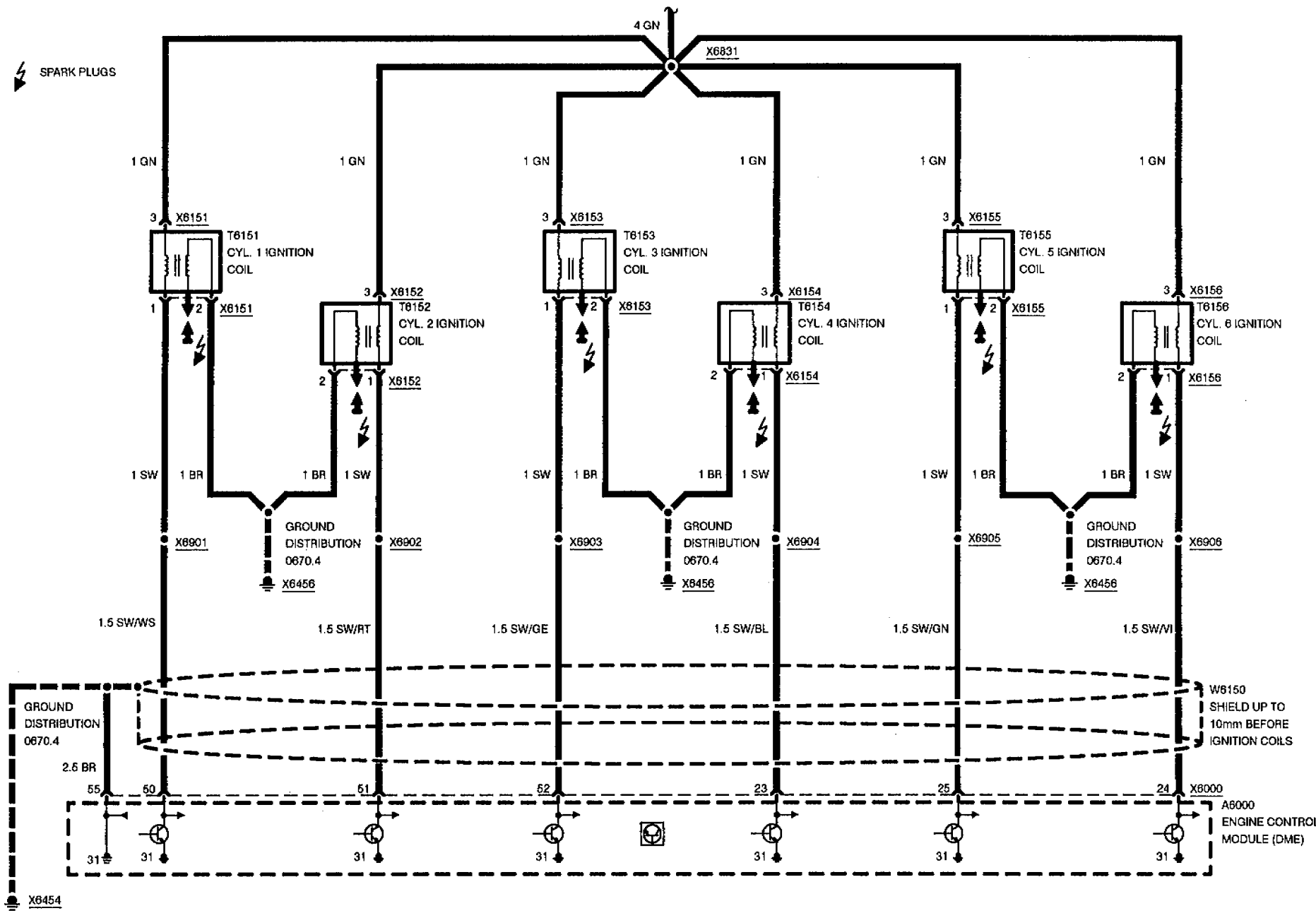



1210.13.00
A
1 RT/WS
.5 RT/WS
.5 RT/WS
2.5 RT/WS
2.5 RT/WS
X6822
X6820
2 X6130
Y6130
IDLE SPEED
CONTROL VALVE
1
3 X6130
1 X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2 X6120
1 X6208
B6208
CAMSHAFT
ACTUATOR
2 X6208
.5 RT/WS
1 X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2 X6101
.5 RT/WS
1 X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2 X6102
.5 RT/WS
1 X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2 X6103
.5 RT/WS
1 X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
2 X6104
.5 RT/WS
1 X6105
Y6105
CYL. 5 FUEL
INJECTION VALVE
2 X6105
.5 RT/WS
1 X6106
Y6106
CYL. 6 FUEL
INJECTION VALVE
2 X6106
.5 WS/GE
.5 WS/GN
.5 BR
.5 GN/BL
.75 BR/WS
.75 BR/RT
.75 BR/GE
.75 BR/BL
.75 BR/GN
.75 BR/VI
2
29
36
7
33
32
31
5
3
4
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31

ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

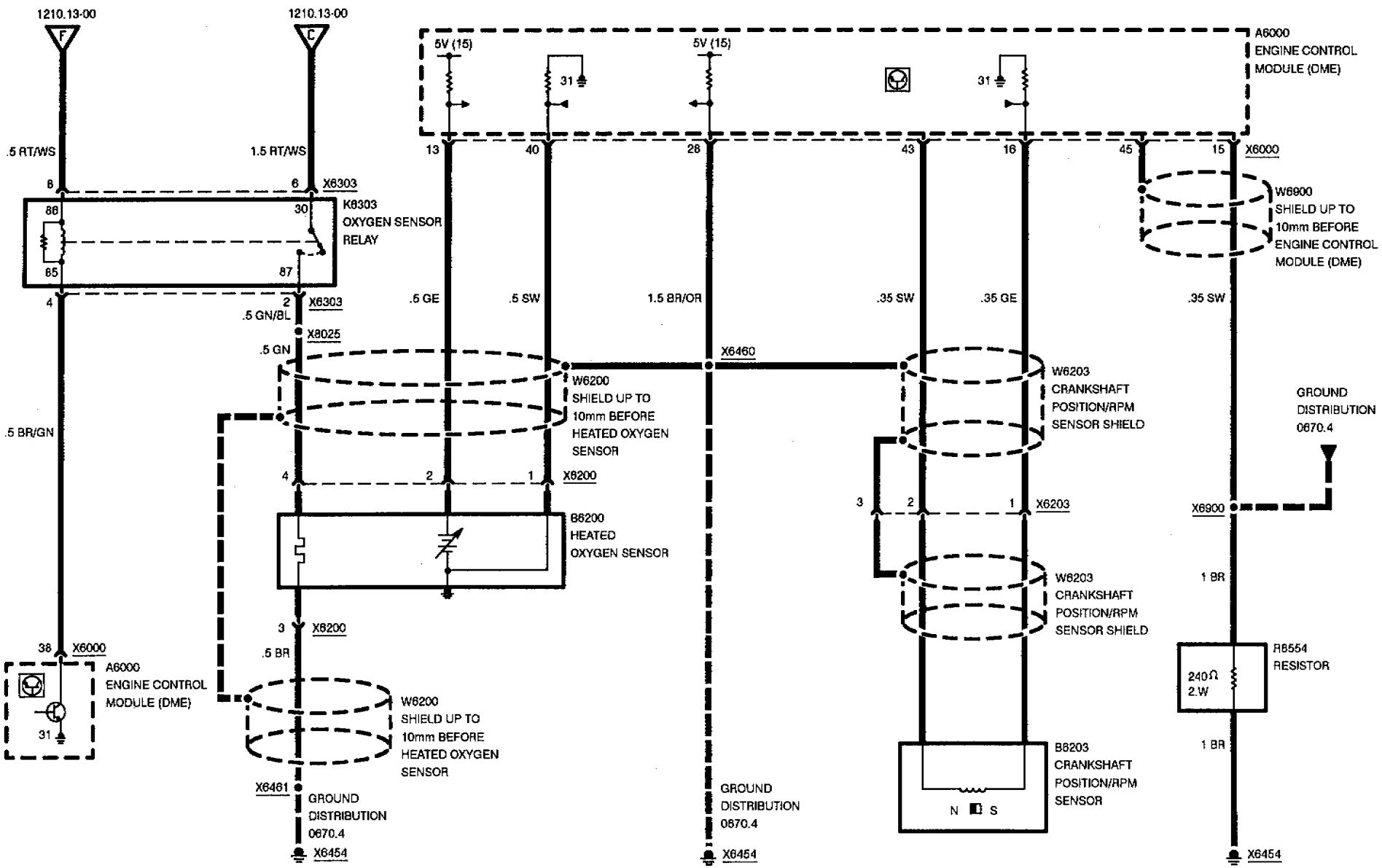
FUEL PUMP, IGNITION COILS



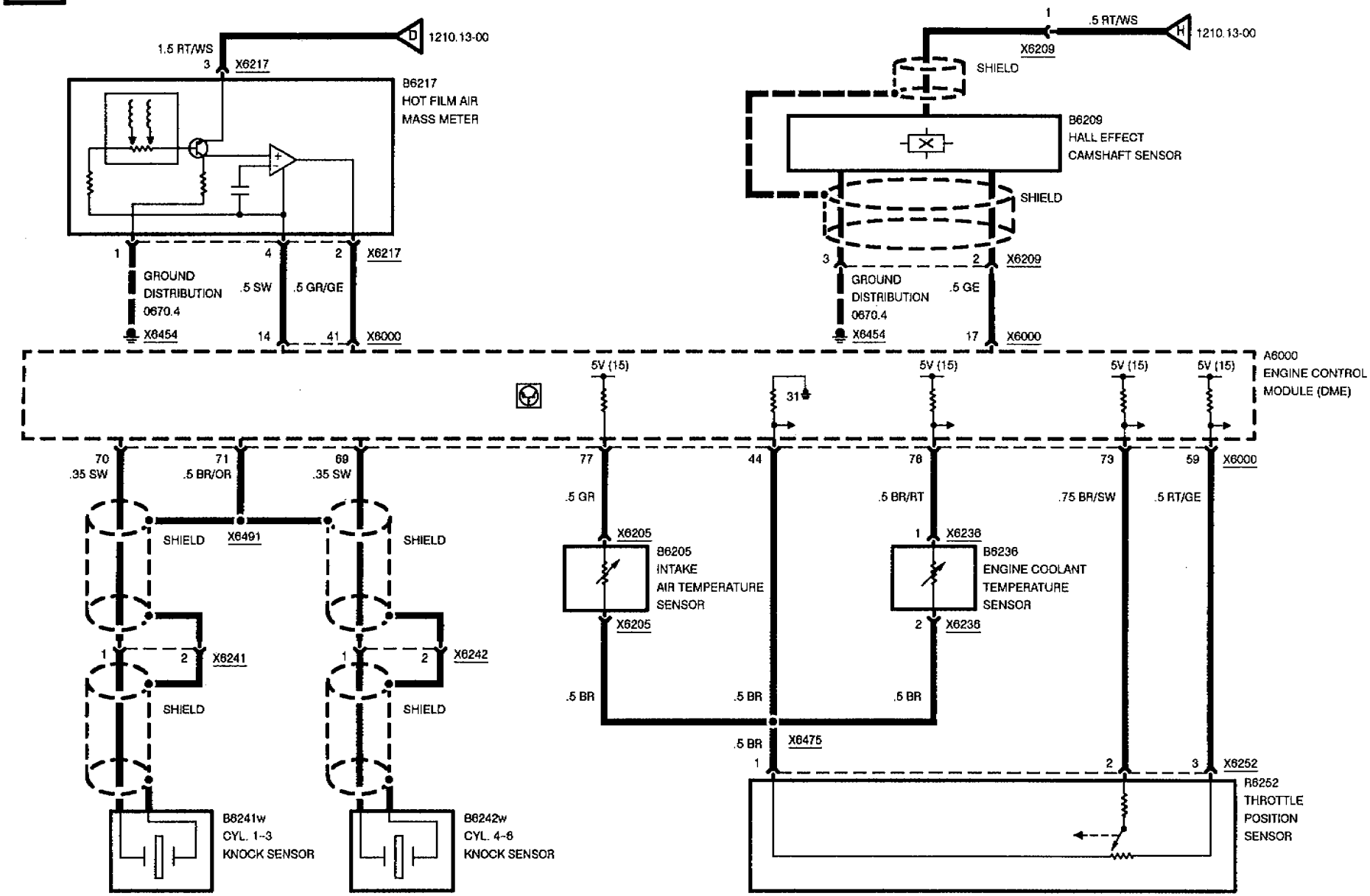

SPARK PLUGS
4 GN
X6831
1 GN
1 GN
1 GN
1 GN
1 GN
1 GN
3 X6151
T6151
CYL. 1 IGNITION COIL
1 2 X6151
3 X6152
T6152
CYL. 2 IGNITION COIL
2 1 X6152
3 X6153
T6153
CYL. 3 IGNITION COIL
1 2 X6153
3 X6154
T6154
CYL. 4 IGNITION COIL
2 1 X6154
3 X6155
T6155
CYL. 5 IGNITION COIL
1 2 X6155
3 X6156
T6156
CYL. 6 IGNITION COIL
2 1 X6156
1 SW
1 BR
1 BR
1 SW
1 SW
1 BR
1 BR
1 SW
1 SW
1 BR
1 BR
1 SW
X6901
GROUND DISTRIBUTION 0670.4
X6902
X6903
GROUND DISTRIBUTION 0670.4
X6904
X6905
GROUND DISTRIBUTION 0670.4
X6906
X6456
X6456
X6456
1.5 SW/WS
1.5 SW/RT
1.5 SW/GE
1.5 SW/BL
1.5 SW/GN
1.5 SW/VI
W6150
SHIELD UP TO 10mm BEFORE IGNITION COILS
GROUND DISTRIBUTION 0670.4
2.5 BR
55
50
51
52
23
25
24
X6000
A6000
ENGINE CONTROL MODULE (DME)
31
31
31
31
31
31
X6454

ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

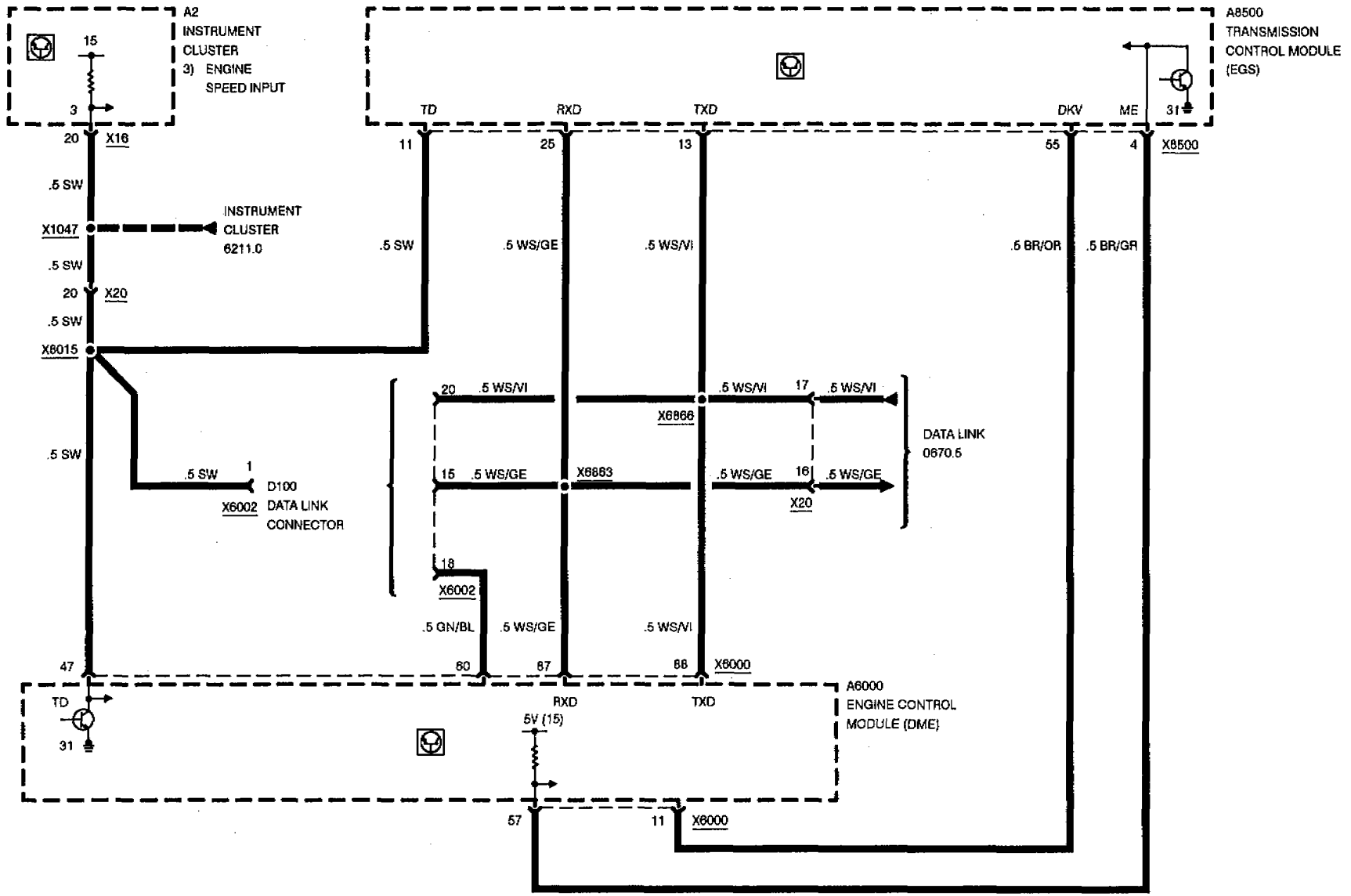


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

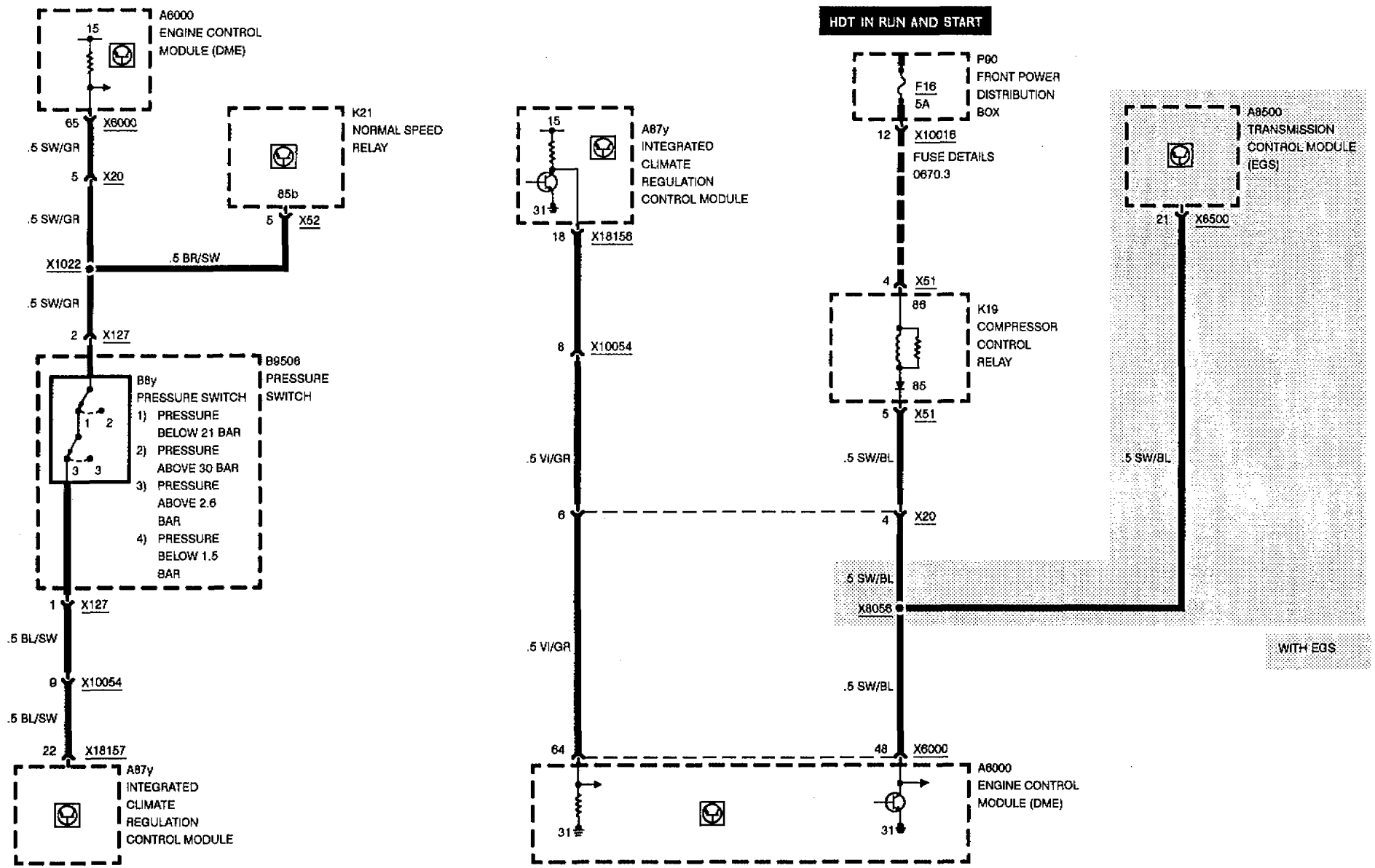


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

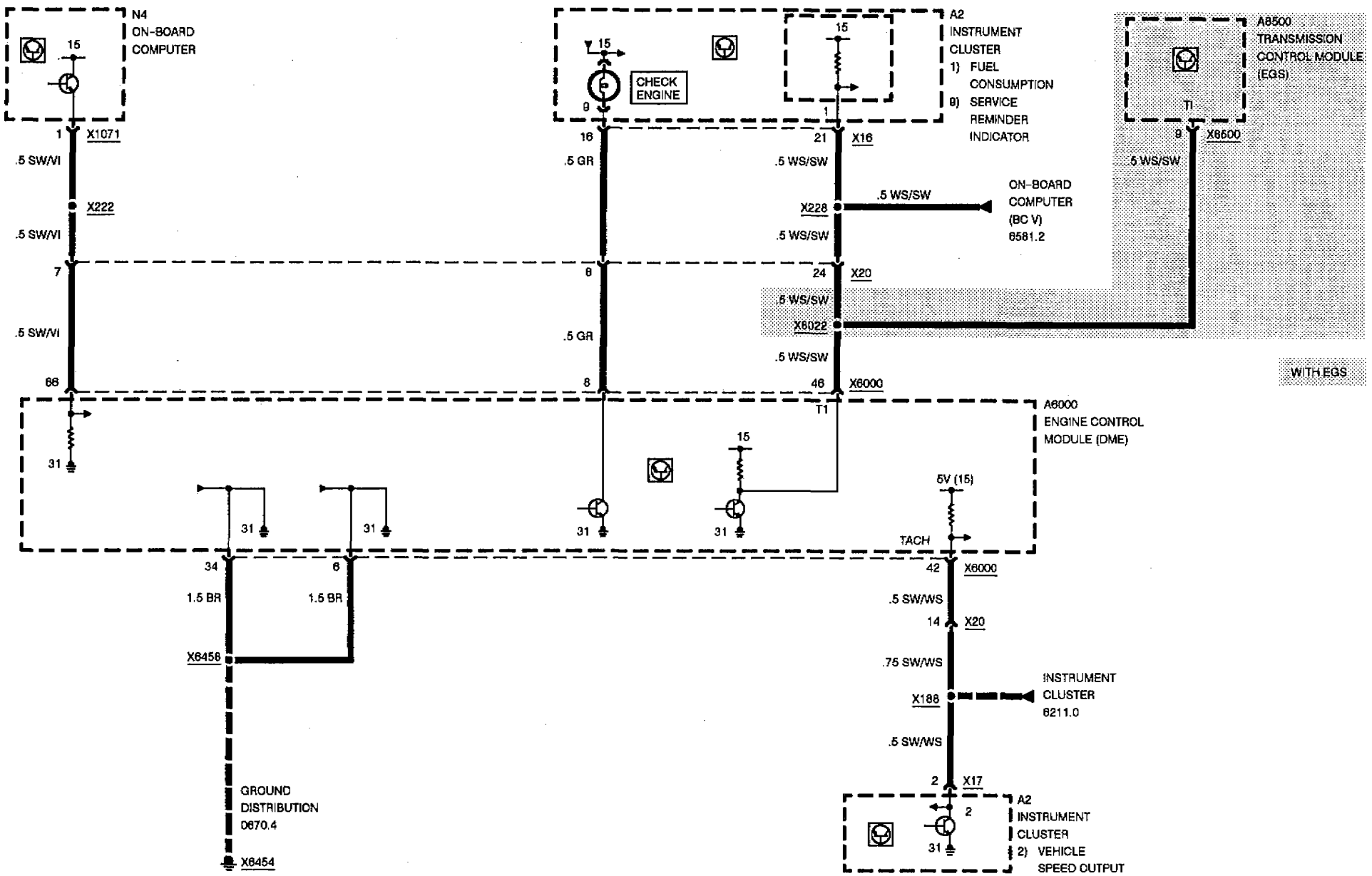
DATA LINK

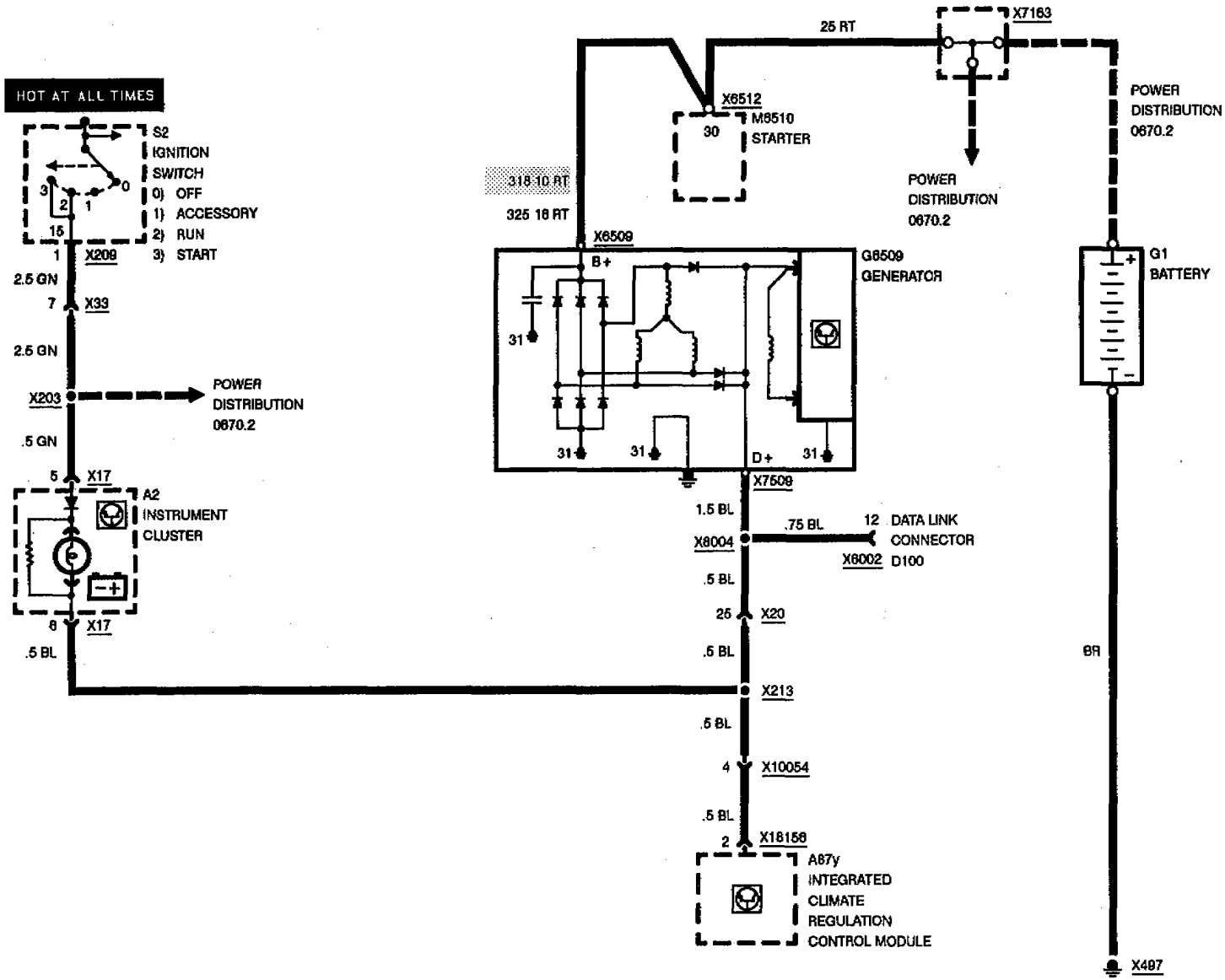


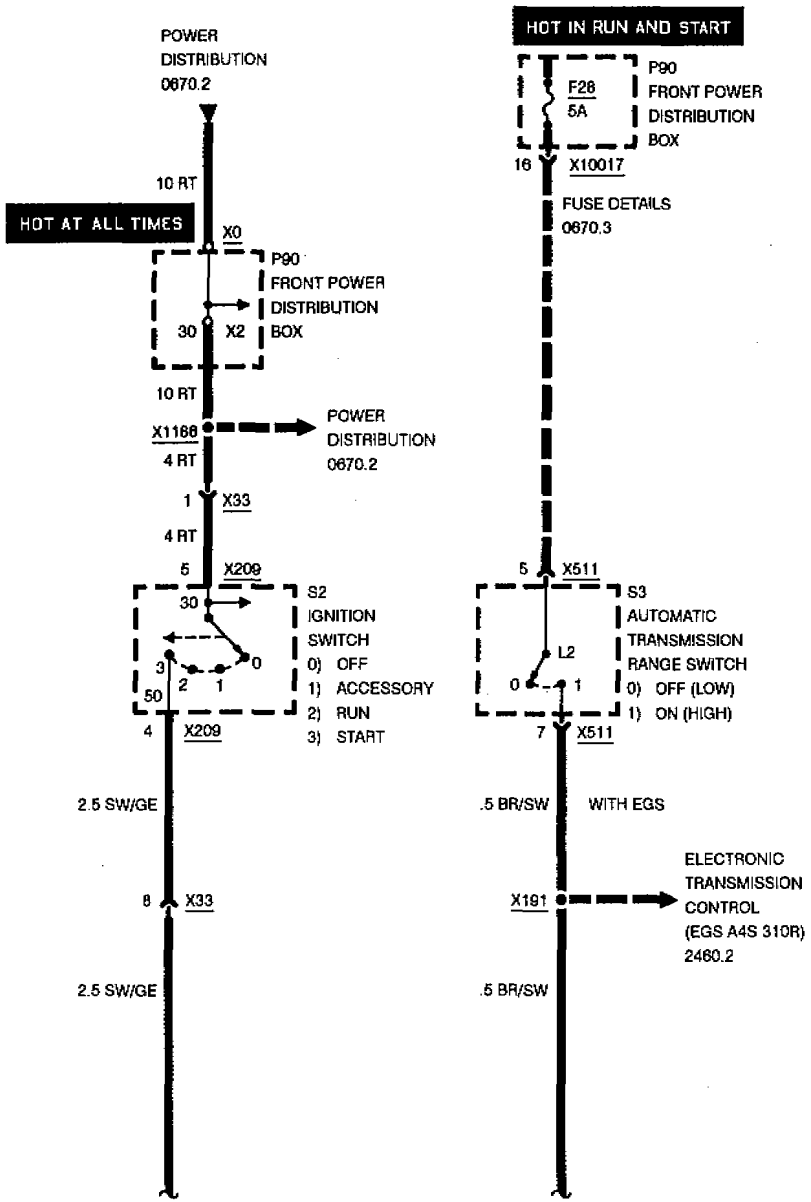
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



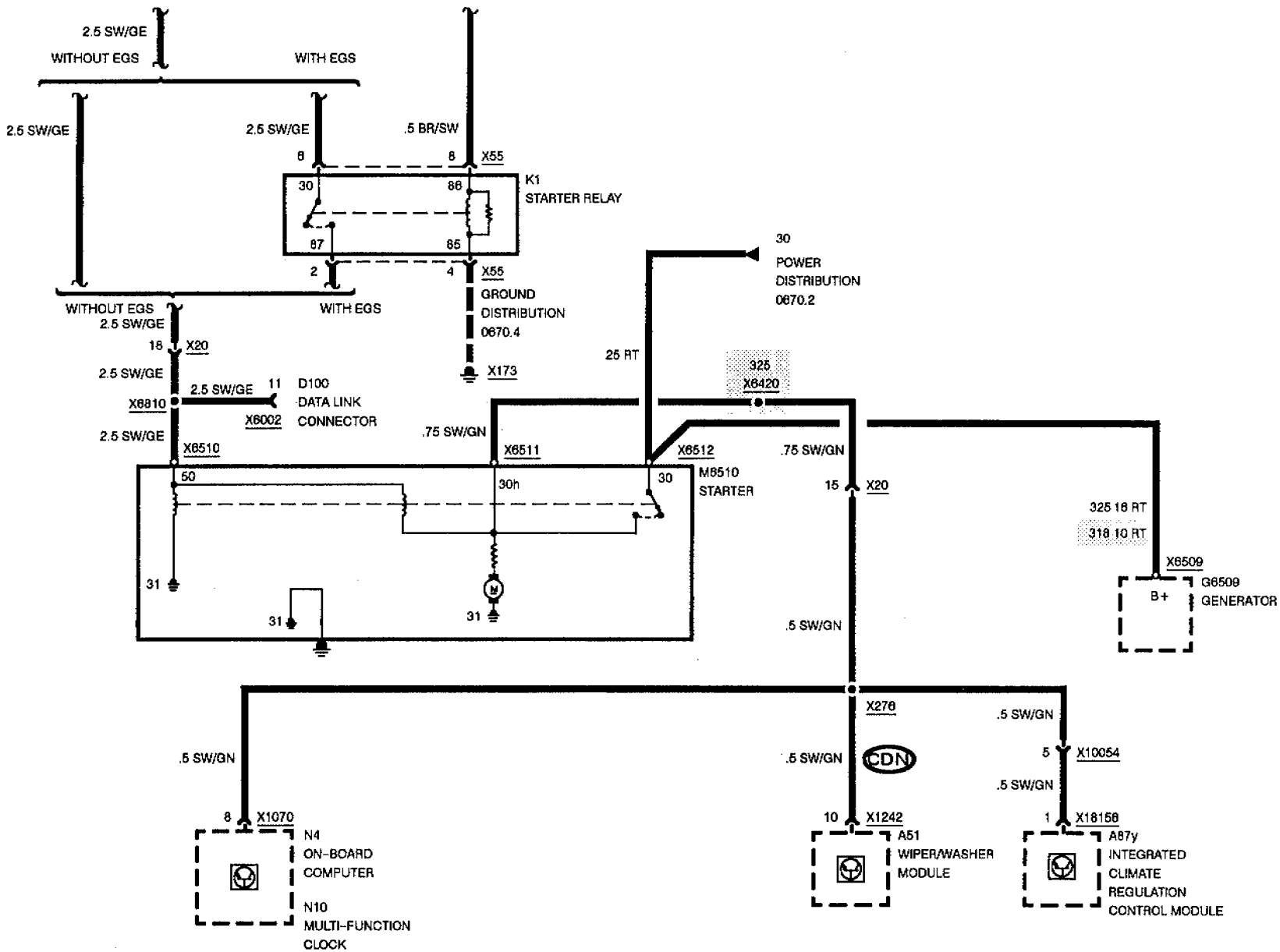
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



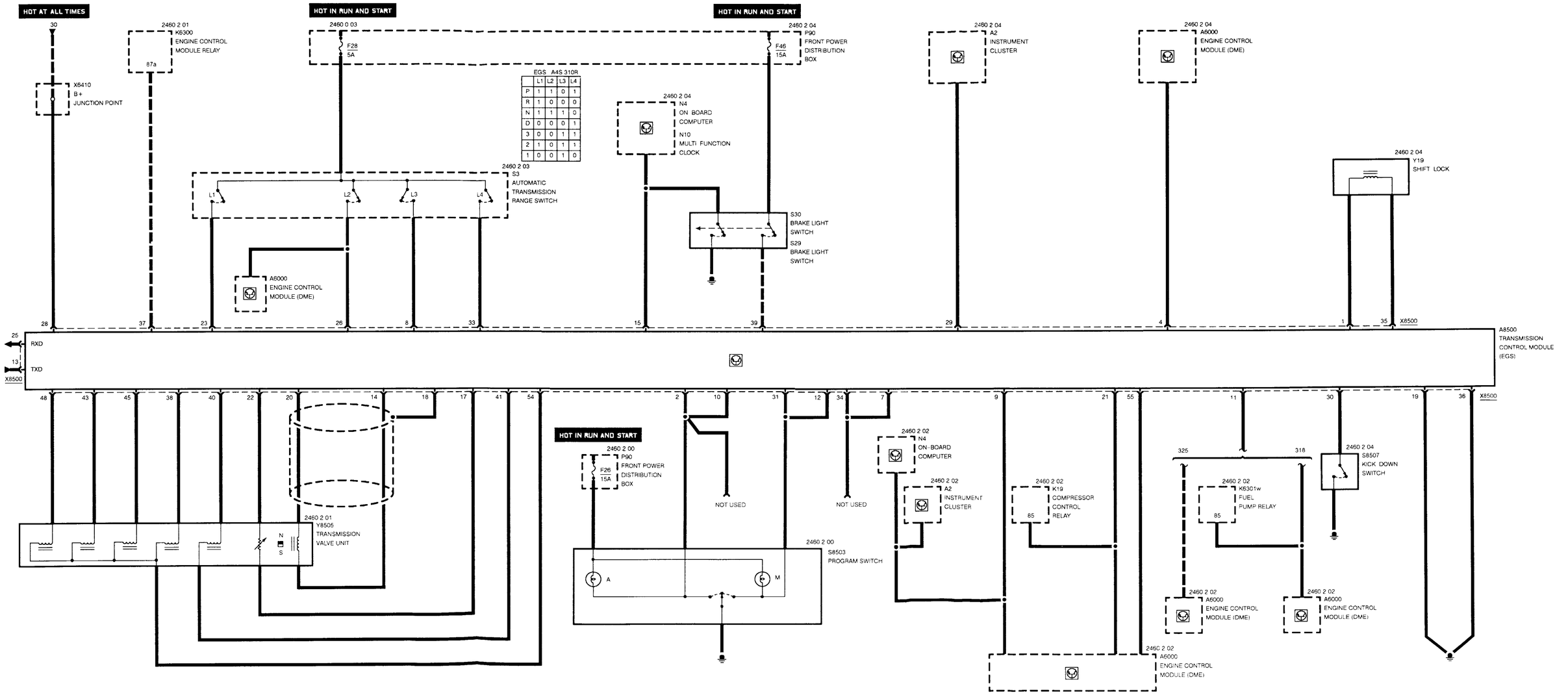

HOT AT ALL TIMES
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
15
1
X209
2.5 GN
7
X33
2.5 GN
X203
POWER
DISTRIBUTION
0670.2
.5 GN
5
X17
A2
INSTRUMENT
CLUSTER
6
X17
.5 BL
25 RT
X7163
X6512
30
M6510
STARTER
POWER
DISTRIBUTION
0670.2
POWER
DISTRIBUTION
0670.2
318 10 RT
325 16 RT
X6509
B+
G6509
GENERATOR
31
31
31
31
D+
X7509
1.5 BL
X8004
.75 BL
12
DATA LINK
CONNECTOR
X6002 D100
.5 BL
25
X20
.5 BL
X213
.5 BL
4
X10054
.5 BL
2
X18156
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
G1
BATTERY
9R
X497

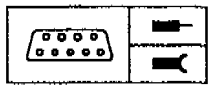


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0


2.5 SW/GE
WITHOUT EGS
WITH EGS
2.5 SW/GE
2.5 SW/GE
.5 BR/SW
8
8
X55
K1
STARTER RELAY
30
86
87
85
2
4
X55
GROUND
DISTRIBUTION
0670.4
WITHOUT EGS
WITH EGS
2.5 SW/GE
18
X20
2.5 SW/GE
2.5 SW/GE
11
D100
DATA LINK
CONNECTOR
X6002
X6810
2.5 SW/GE
X6510
X173
30
POWER
DISTRIBUTION
0670.2
25 RT
325
X6420
.75 SW/GN
X6511
X6512
.75 SW/GN
50
30h
30
M8510
STARTER
15
X20
325 18 RT
318 10 RT
X6509
B+
G6509
GENERATOR
31
31
31
.5 SW/GN
X276
.5 SW/GN
.5 SW/GN
CDN
.5 SW/GN
5
X10054
.5 SW/GN
8
X1070
N4
ON-BOARD
COMPUTER
N10
MULTI-FUNCTION
CLOCK
10
X1242
A51
WIPER/WASHER
MODULE
1
X18158
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE

12/93 2460 2 1993
12/93 2460 2 1993



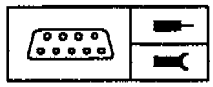


Pin Assignments

X8500

Pin	Type	Description/Function	Connection
1	A	Shift lock solenoid control	Shift lock
2	E	Automatic mode signal	Program switch
3		Not used	
4	A	Ignition timing intervention	Engine control module (DME)
5		Not used	
6		Not used	
7	A	S-program indication	Not used
8	E	Gear range signal L3	Automatic transmission range switch
9	E	Ti measurement signal (fuel consumption)	Engine control module (DME)
10	A	A-program indication	Program switch
11 (318)	E	Cyl. 1-6 fuel pump relay control	Engine control module (DME)
11 (325)	E	Crankshaft RPM speed signal TD	Engine control module (DME)
12	A	M-program indication	Program switch
13	E/A	TxD diagnostic data link	Data link connector
14	E	Output speed (-)	Transmission valve unit
15	E	Brake switch test signal	Brake light switch
16		Not used	
17	E	Oil temperature signal (analog ground)	Transmission valve unit
18	A	Shield for speed sensor	Transmission valve unit shield
19	M	Ground, power	Ground point
20	E	Output speed (+)	Transmission valve unit
21	E	A/C compressor ON signal	Engine control module (DME)
22	E	Oil temperature signal (+)	Transmission valve unit
23	E	Gear range signal L1	Automatic transmission range switch
24		Not used	
25	A	RxD diagnostic data link	Data link connector
26	E	Gear range signal L2	Automatic transmission range switch
27		Not used	
28	E	Battery voltage	B+ junction point
29	A	Fault indicator signal	Instrument cluster
30	E	Kick-down signal	Kick-down switch
31	E	Manual mode signal	Program switch
32		Not used	

E = Input, A = Output, M = Ground



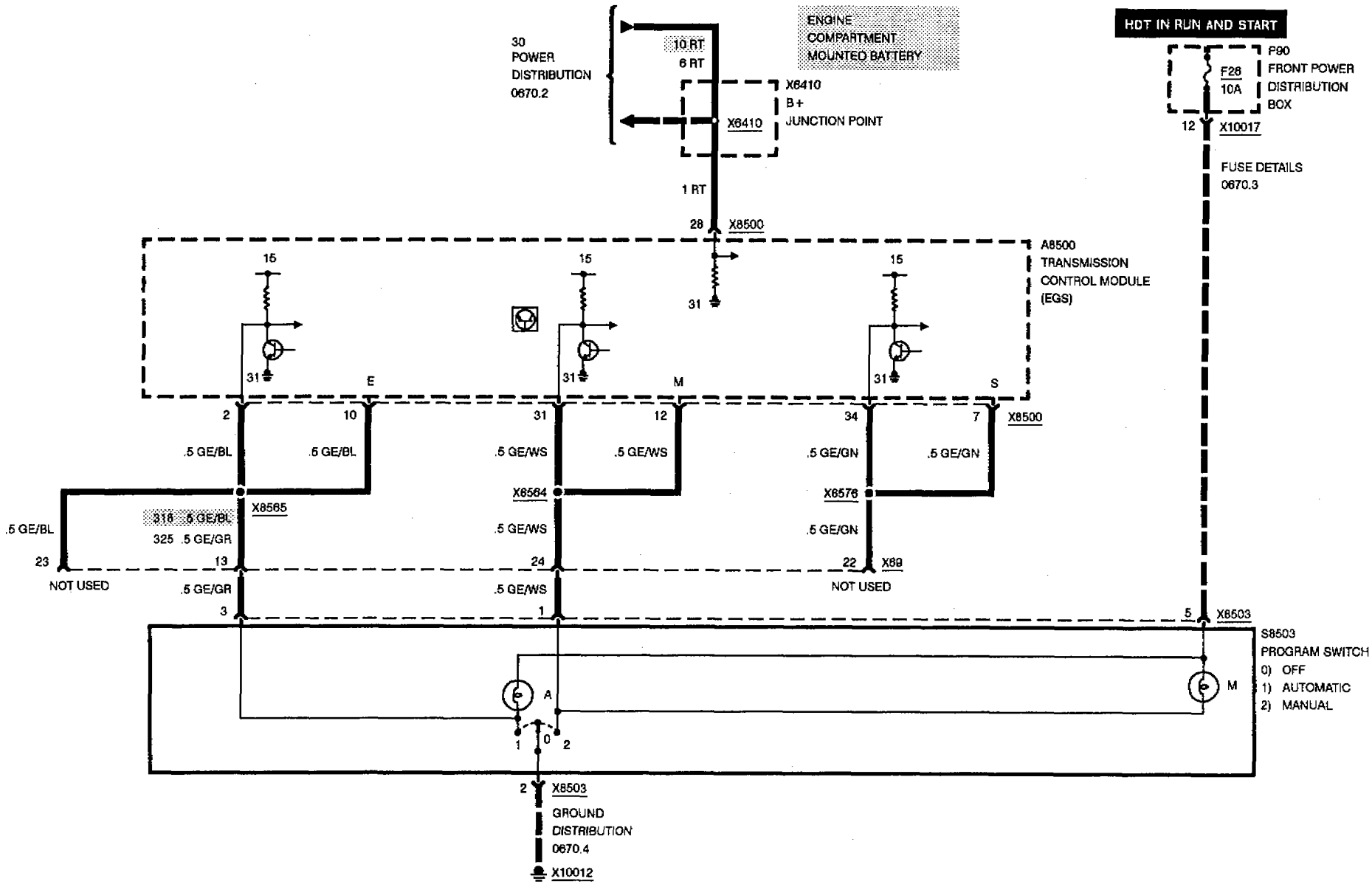
Pin Assignments

Pin	Type	Description/Function	Connection
33	E	Gear range signal L4	Automatic transmission range switch
34	E	S-program button	Not used
35	A	Ground, shift lock solenoid	Shift lock
36	M	Ground, electronic	Ground point
37	E	Voltage supply	Engine control module relay, terminal 87a
38	A	Torque converter clutch solenoid valve control	Transmission valve unit
39	E	Brake pedal position	Brake light switch
40	A	Hydraulic pressure regulator control (+)	Transmission valve unit
41	A	Hydraulic pressure regulator control (-)	Transmission valve unit
42		Not used	
43	A	Solenoid valve 2 control (+)	Transmission valve unit
44		Not used	
45	A	Band solenoid control (+)	Transmission valve unit
46		Not used	
47		Not used	
48	A	Solenoid valve 1 control (+)	Transmission valve unit
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	A	Solenoid valves ground control	Transmission valve unit
55	E	Throttle position signal	Engine control module (DME)

E = Input, A = Output, M = Ground

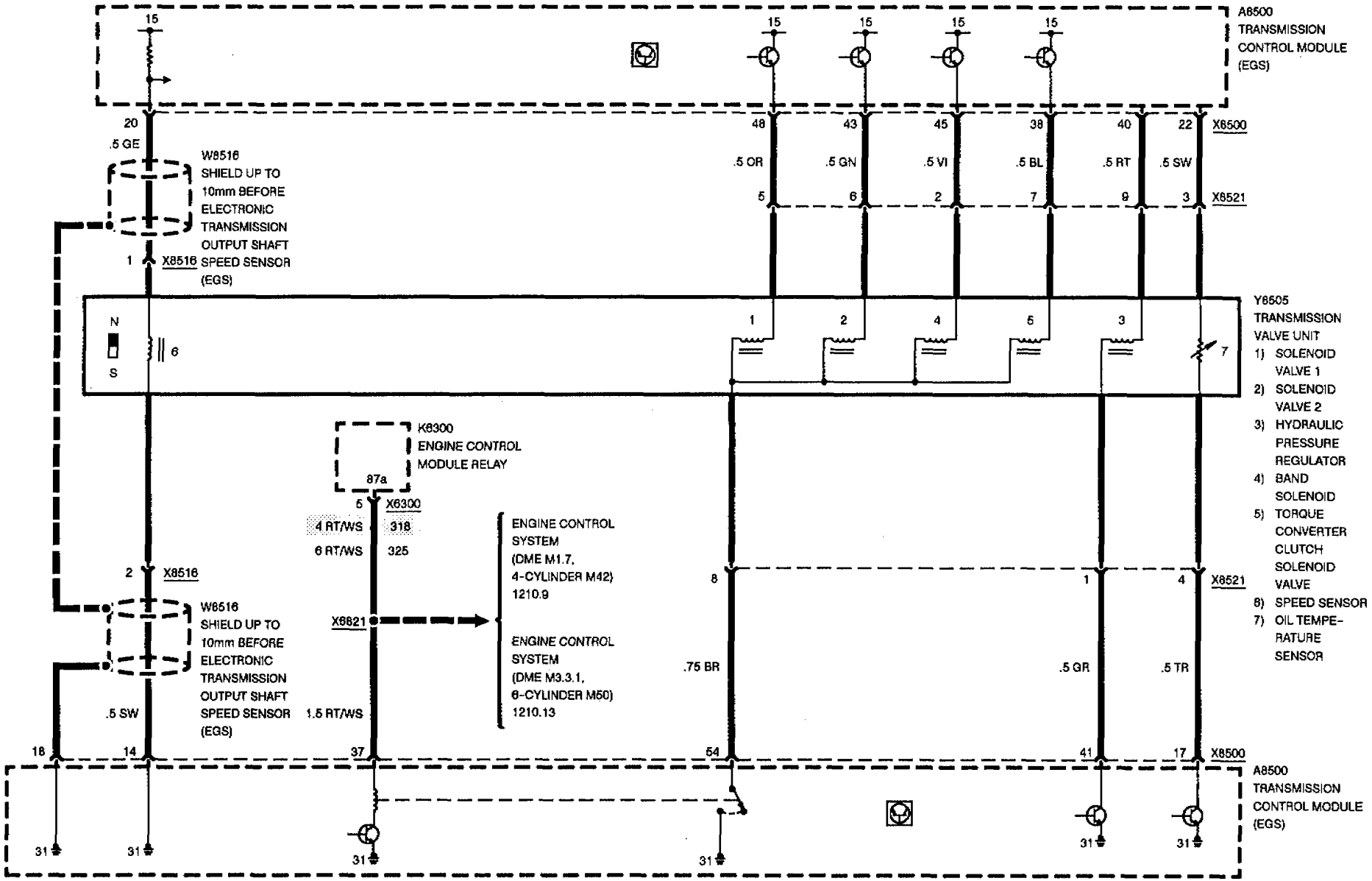
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

POWER, PROGRAM SWITCH

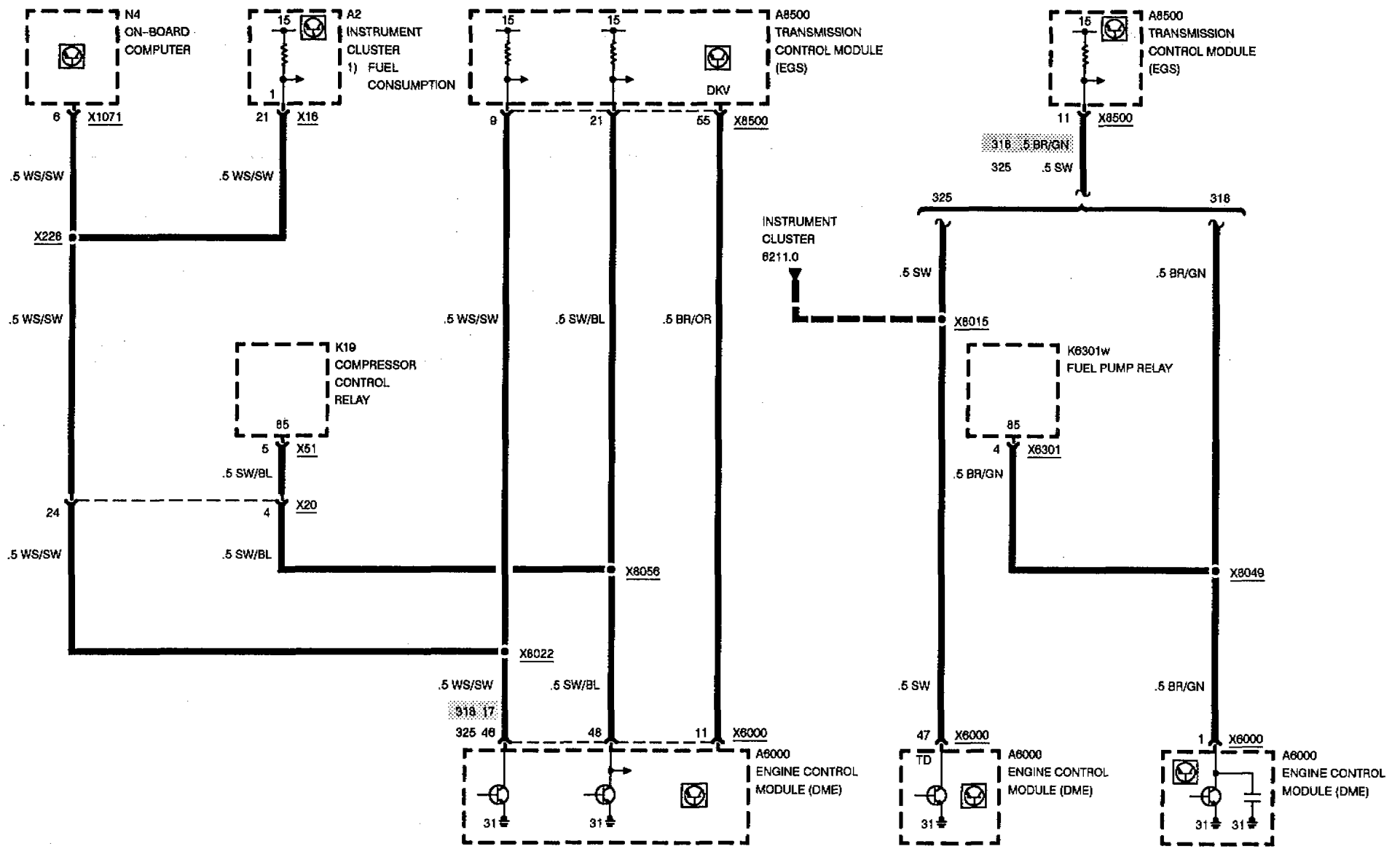


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR VALVE UNIT

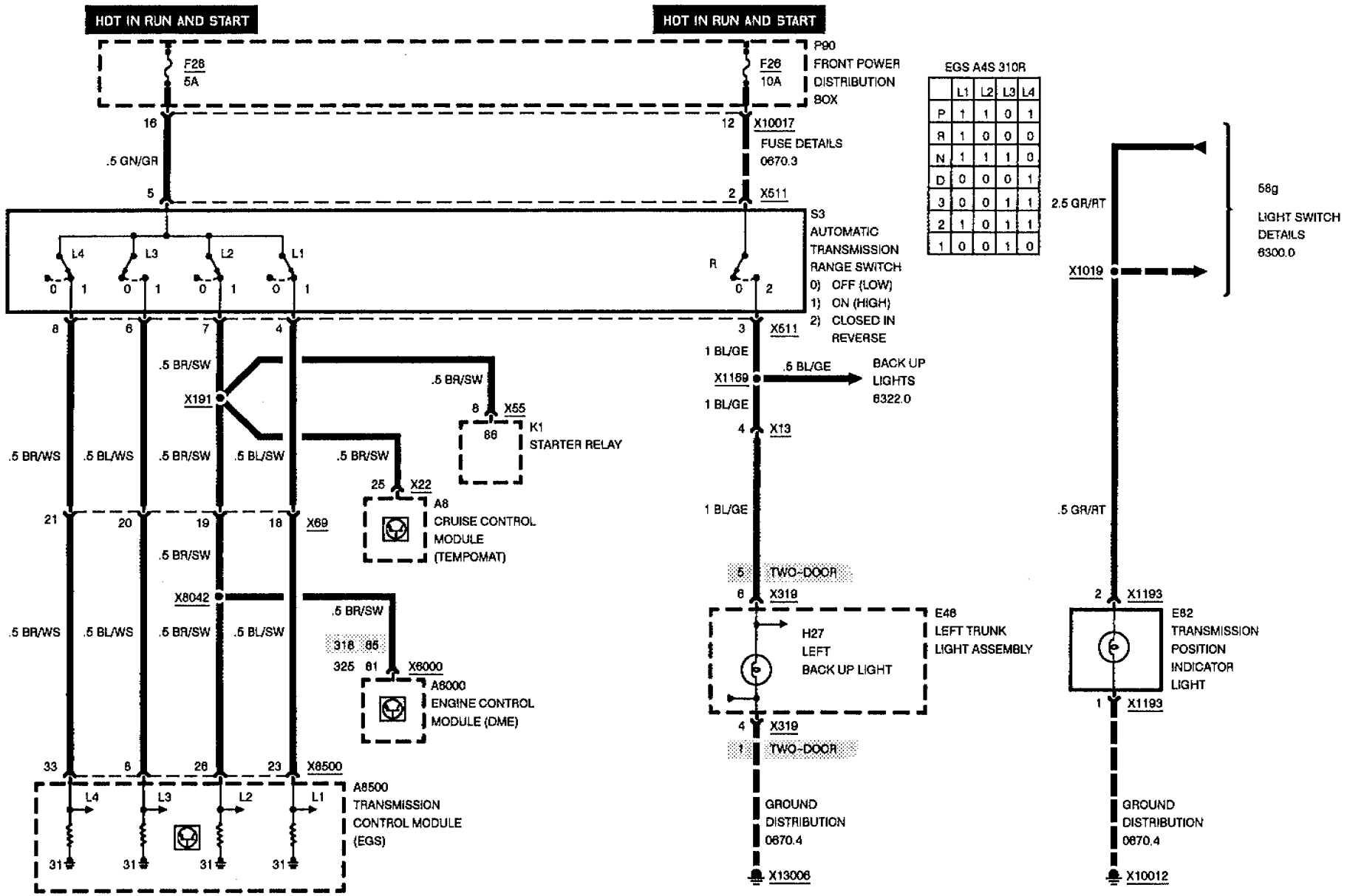


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



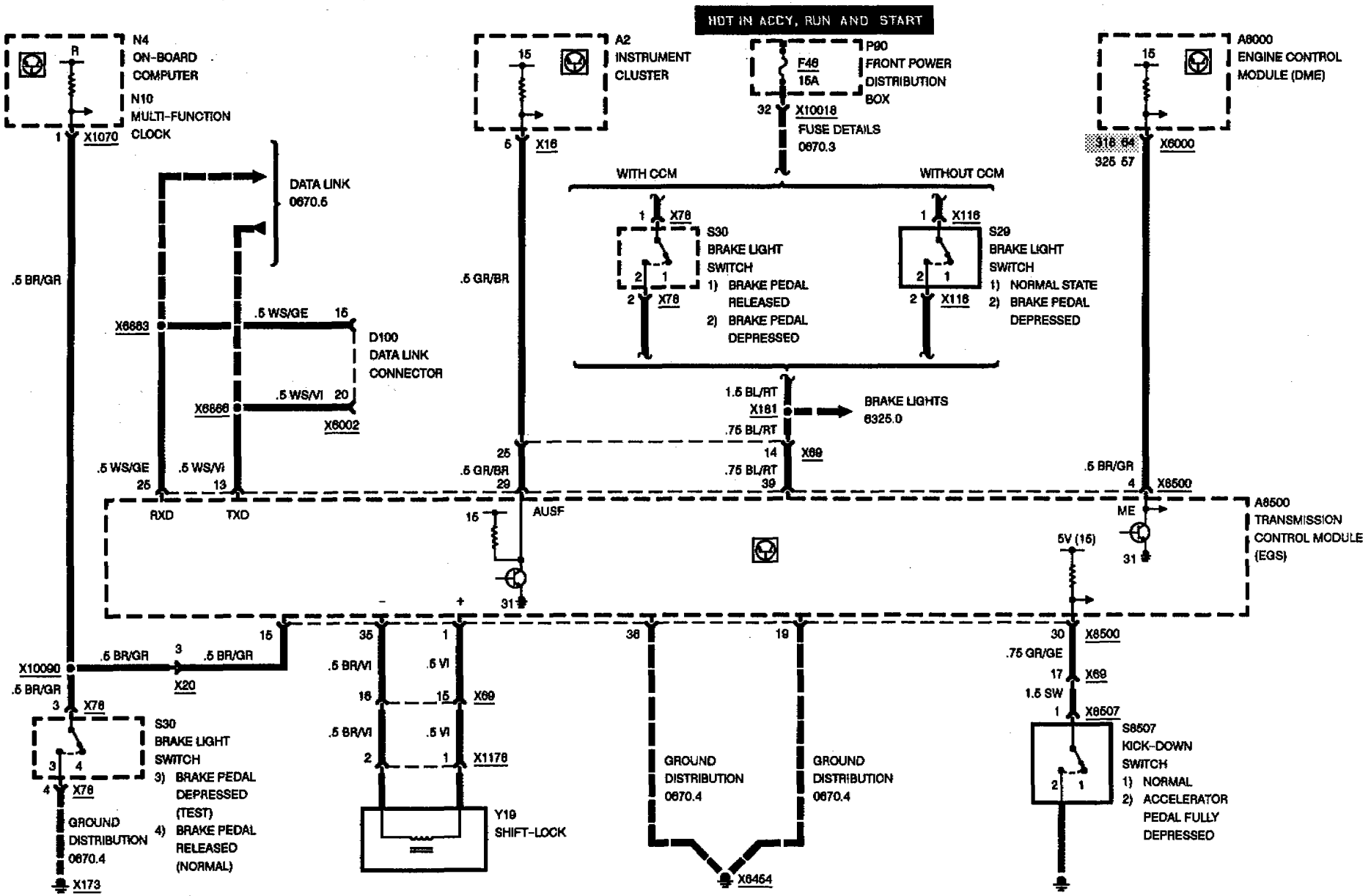
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR SELECTOR SWITCH



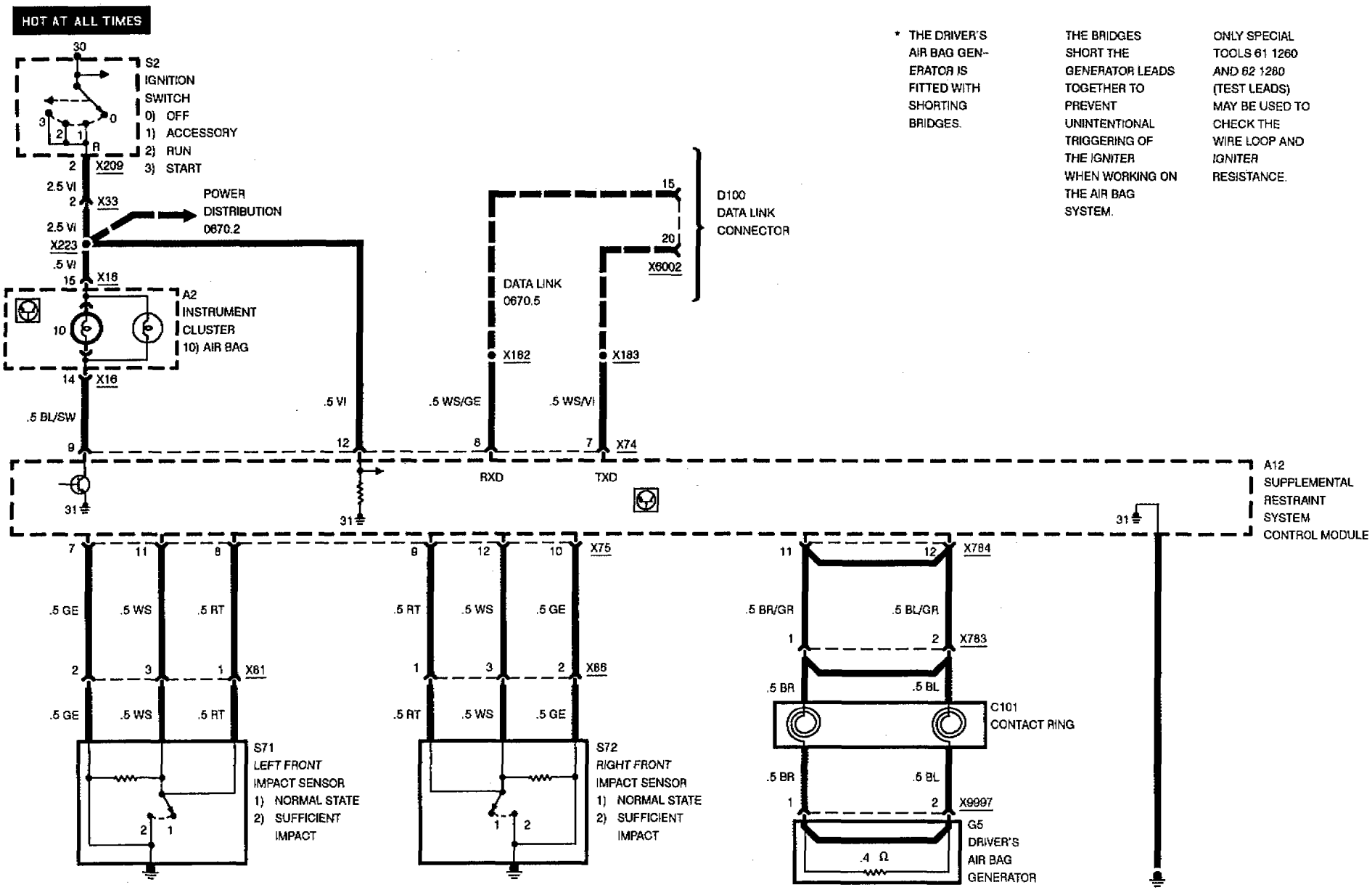
BMW 3 — ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH



SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

EARLY PRODUCTION



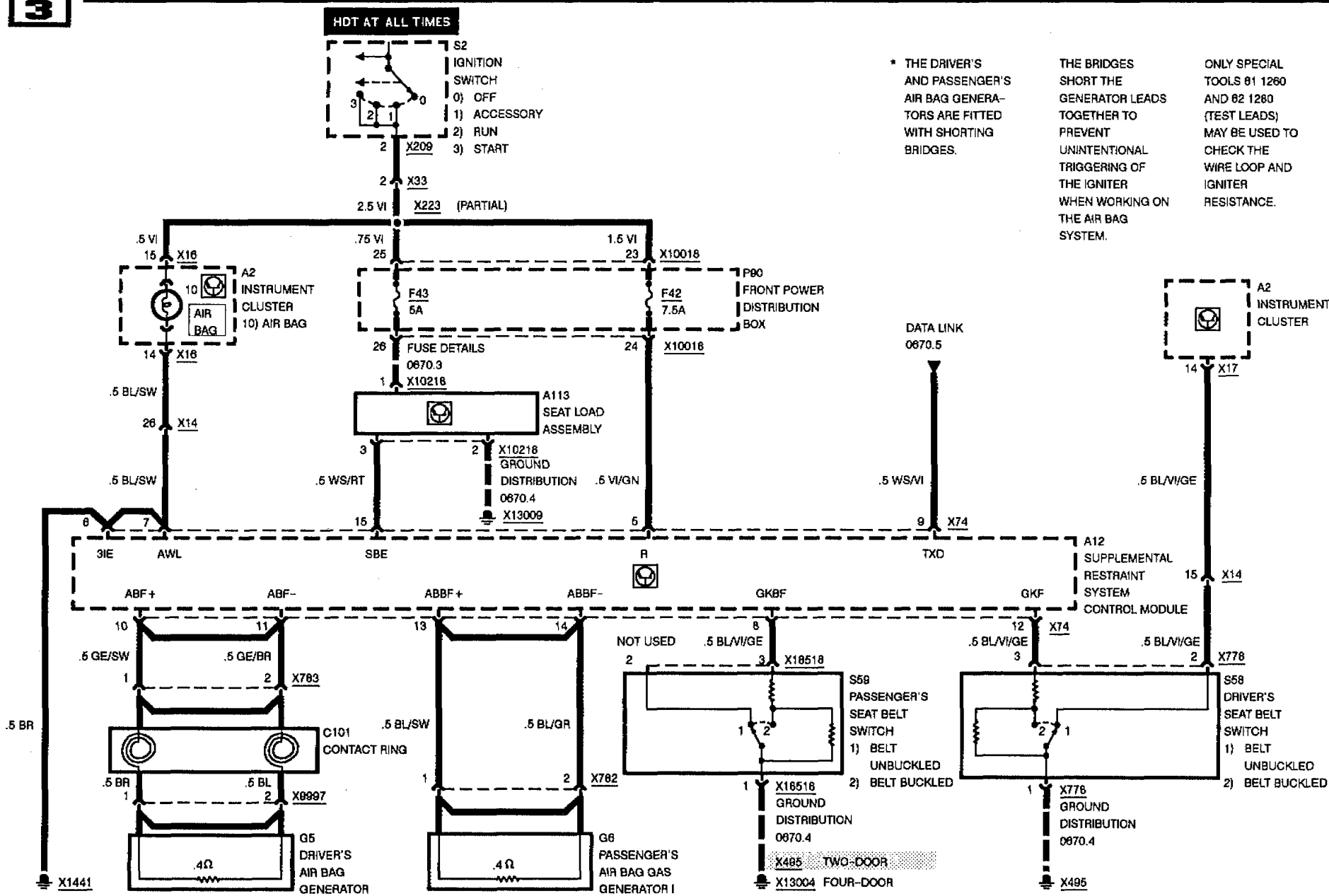
* THE DRIVER'S AIR BAG GENERATOR IS FITTED WITH SHORTING BRIDGES.

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

ONLY SPECIAL TOOLS 61 1260 AND 62 1280 (TEST LEADS) MAY BE USED TO CHECK THE WIRE LOOP AND IGNITER RESISTANCE.

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

LATE PRODUCTION

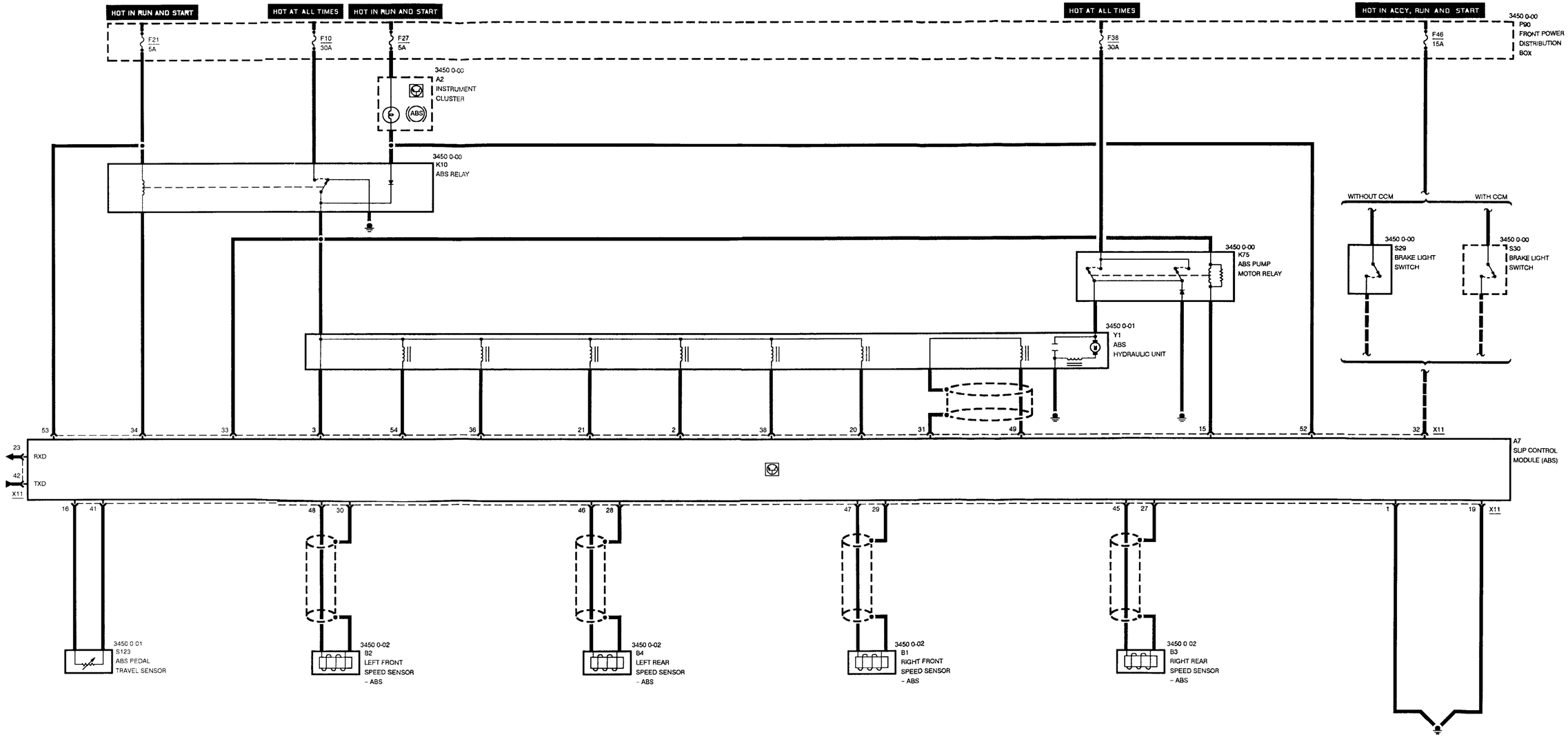


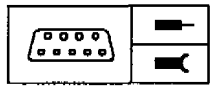
* THE DRIVER'S AND PASSENGER'S AIR BAG GENERATORS ARE FITTED WITH SHORTING BRIDGES.

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM.

ONLY SPECIAL TOOLS 61 1260 AND 62 1260 (TEST LEADS) MAY BE USED TO CHECK THE WIRE LOOP AND IGNITER RESISTANCE.

12/93 3450.0 1993
12/93 3450 0 1993



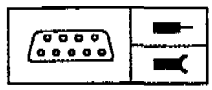


Pin Assignments

X11

Pin	Type	Description/Function	Connection
1	M	Ground, control module	Chassis ground
2	A	Left front outlet valve control	ABS hydraulic unit
3	E	Voltage monitoring, hydraulics	ABS hydraulic unit
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	
13		Not used	
14		Not used	
15	A	ABS pump motor relay control	ABS pump motor relay
16	E	ABS pedal travel sensor	ABS pedal travel sensor
17		Not used	
18		Not used	
19	M	Ground, control module	Chassis ground
20	A	Left front inlet valve control	ABS hydraulic unit
21	A	Right front outlet valve control	ABS hydraulic unit
22		Not used	
23	A	RxD diagnostic data link	Data link connector
24		Not used	
25		Not used	
26		Not used	
27	A	Speed sensor ground, RR	Right rear speed sensor - ABS
28	A	Speed sensor ground, RL	Left rear speed sensor - ABS
29	A	Speed sensor ground, FR	Right front speed sensor - ABS
30	A	Speed sensor ground, FL	Left front speed sensor - ABS
31	E	Pump motor sensor shield	ABS hydraulic unit
32	E	Brake pedal position	Brake light switch
33	E	Operating voltage	ABS relay

E = Input, A = Output, M = Ground

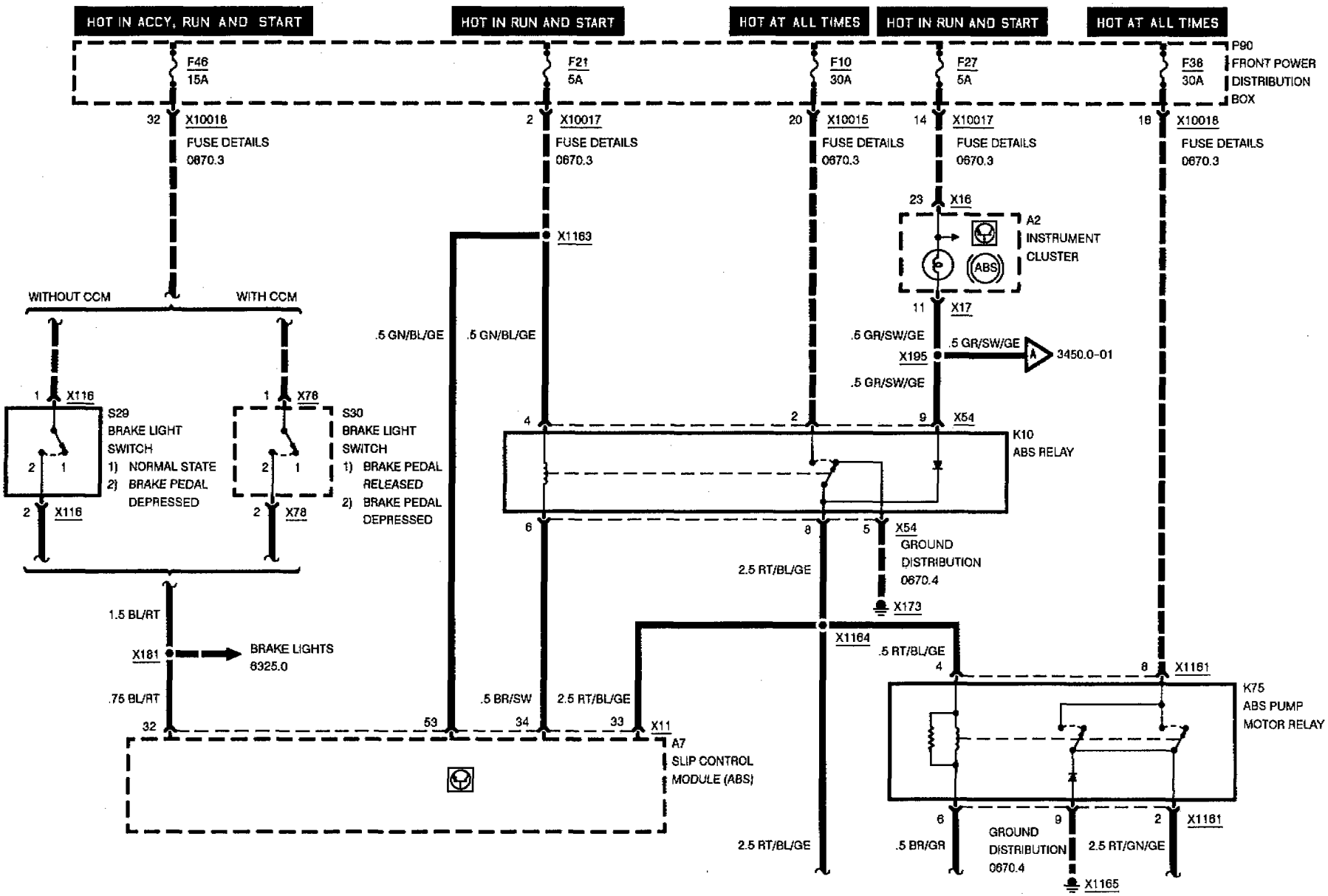


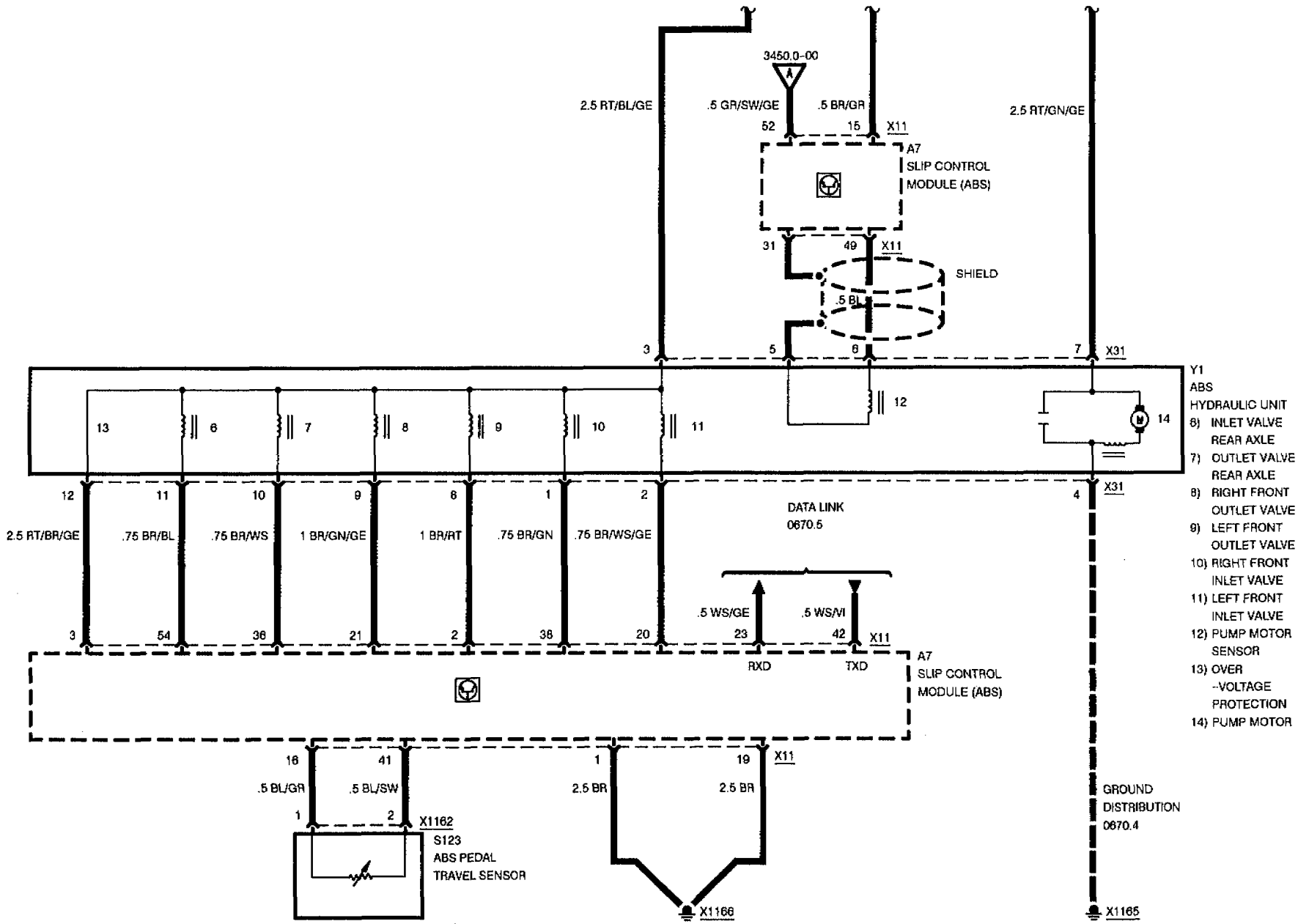
Pin Assignments

Pin	Type	Description/Function	Connection
34	A	ABS relay control	ABS relay
35		Not used	
36	A	Rear axle outlet valve control	ABS hydraulic unit
37		Not used	
38	A	Right front inlet valve control	ABS hydraulic unit
39		Not used	
40		Not used	
41	E	ABS pedal travel sensor	ABS pedal travel sensor
42	E/A	TxD diagnostic data link	Data link connector
43		Not used	
44		Not used	
45	E	Speed sensor signal RR	Right rear speed sensor - ABS
46	E	Speed sensor signal RL	Left rear speed sensor - ABS
47	E	Speed sensor signal FR	Right front speed sensor - ABS
48	E	Speed sensor signal FL	Left front speed sensor - ABS
49	E	Pump motor sensor signal	ABS hydraulic unit
50		Not used	
51		Not used	
52	A	ABS warning lamp control	Instrument cluster
53	E	Voltage supply, terminal 15	Front power distribution box, fuse 21
54	A	Rear axle inlet valve control	ABS hydraulic unit
55		Not used	

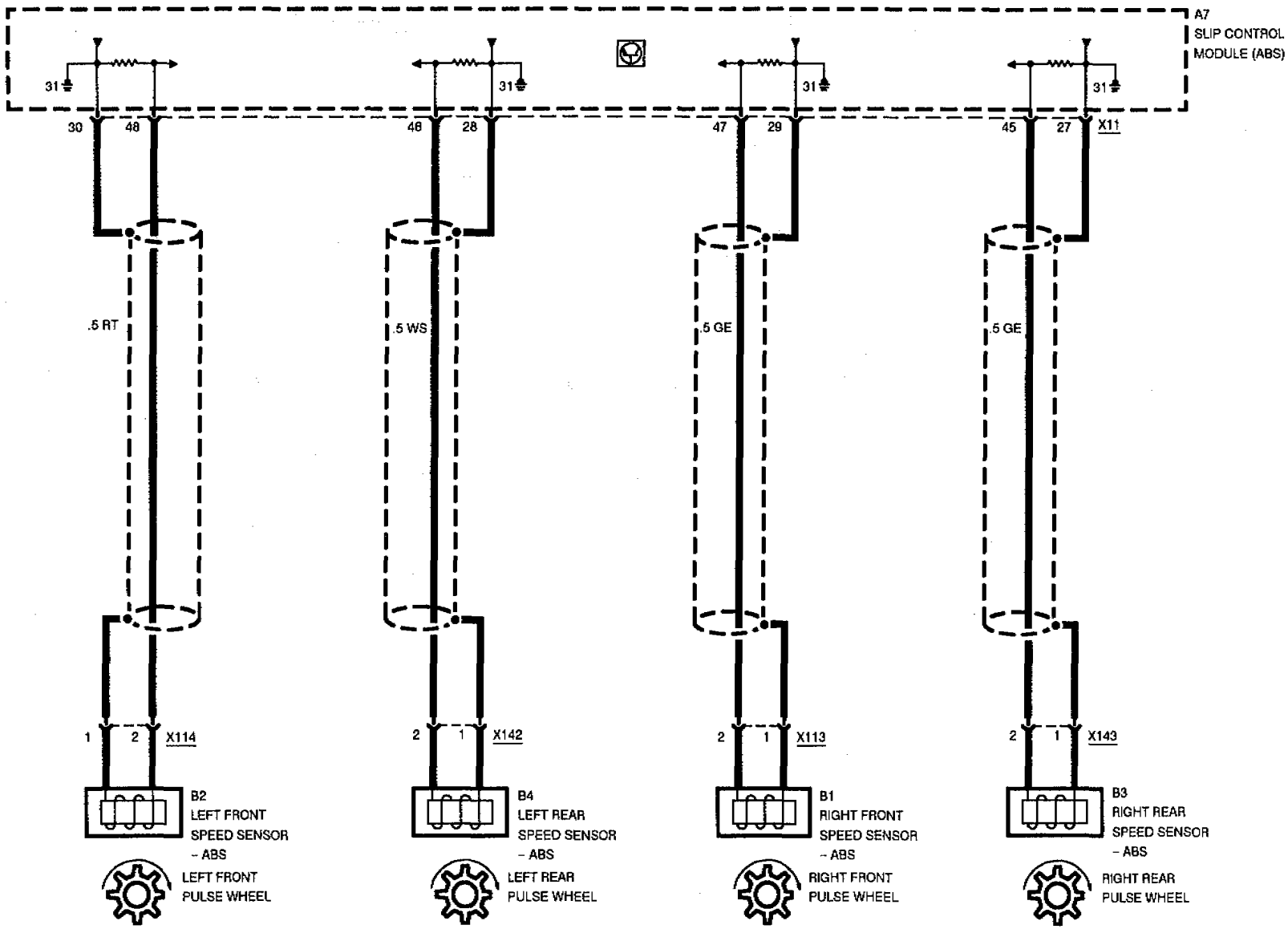
E = Input, A = Output, M = Ground

SLIP CONTROL (ABS)



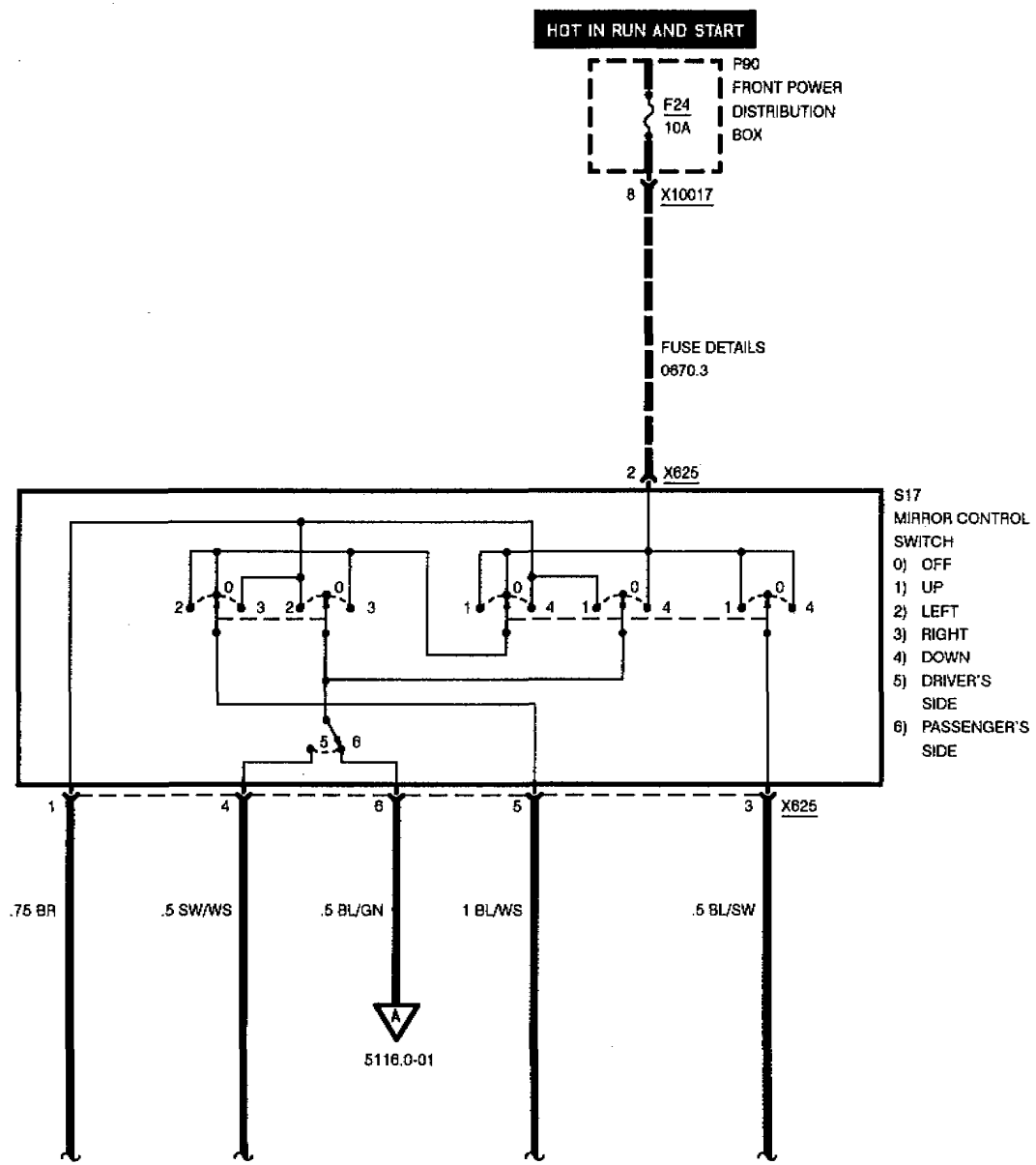

3450.0-00
2.5 RT/BL/GE
.5 GR/SW/GE
.5 BR/GR
2.5 RT/GN/GE
52
15
X11
A7
SLIP CONTROL
MODULE (ABS)
31
49
X11
SHIELD
.5 BL
3
5
6
7
X31
Y1
ABS
HYDRAULIC UNIT
6) INLET VALVE
REAR AXLE
7) OUTLET VALVE
REAR AXLE
8) RIGHT FRONT
OUTLET VALVE
9) LEFT FRONT
OUTLET VALVE
10) RIGHT FRONT
INLET VALVE
11) LEFT FRONT
INLET VALVE
12) PUMP MOTOR
SENSOR
13) OVER
-VOLTAGE
PROTECTION
14) PUMP MOTOR
13
6
7
8
9
10
11
12
14
M
4
X31
DATA LINK
0670.5
12
11
10
9
8
1
2
2.5 RT/BR/GE
.75 BR/BL
.75 BR/WS
1 BR/GN/GE
1 BR/RT
.75 BR/GN
.75 BR/WS/GE
3
54
36
21
2
38
20
.5 WS/GE
.5 WS/VI
23
42
X11
RXD
TXD
A7
SLIP CONTROL
MODULE (ABS)
16
41
1
19
X11
.5 BL/GR
.5 BL/SW
2.5 BR
2.5 BR
1
2
X1162
S123
ABS PEDAL
TRAVEL SENSOR
GROUND
DISTRIBUTION
0670.4
X1166
X1165

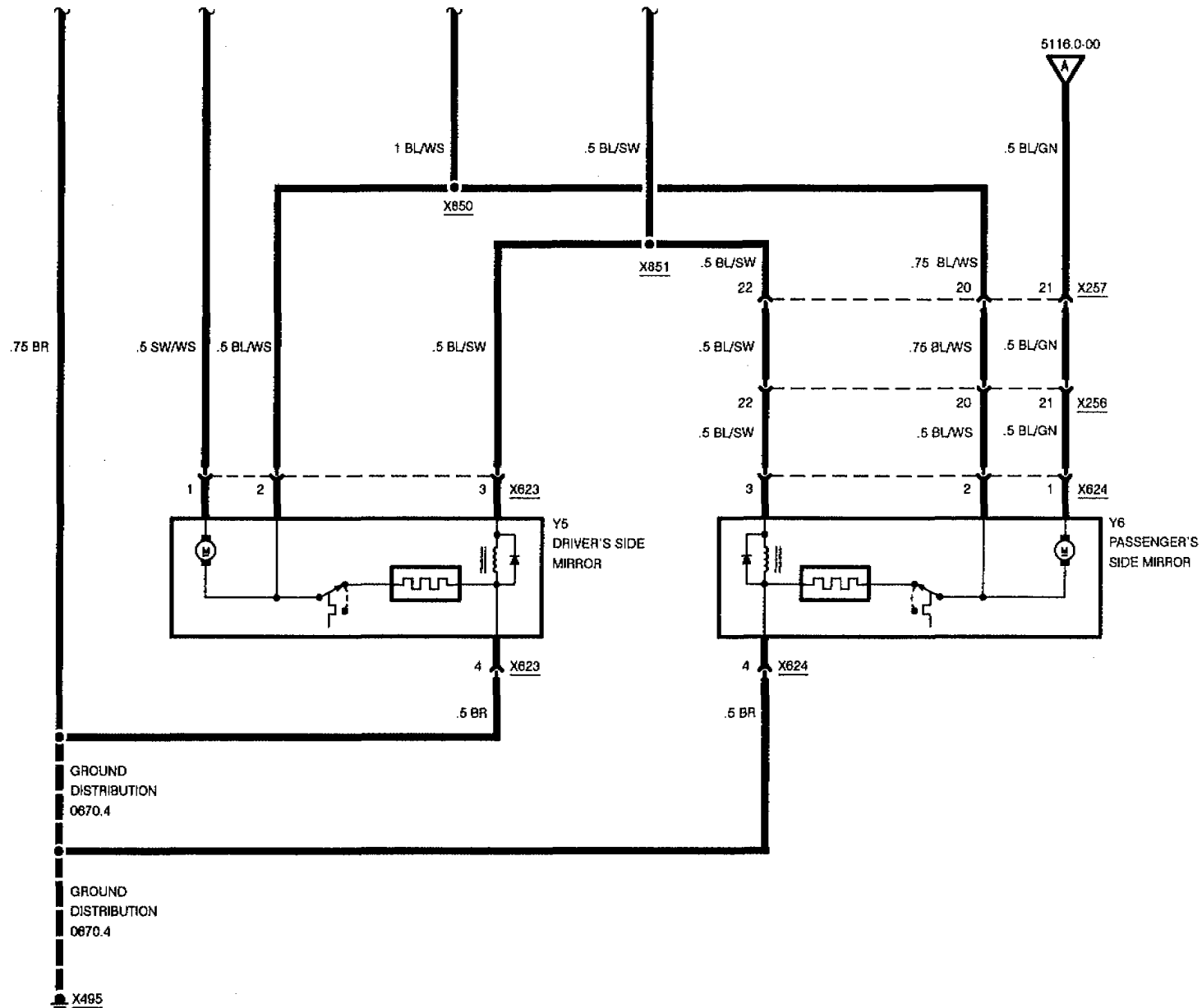
SLIP CONTROL (ABS)



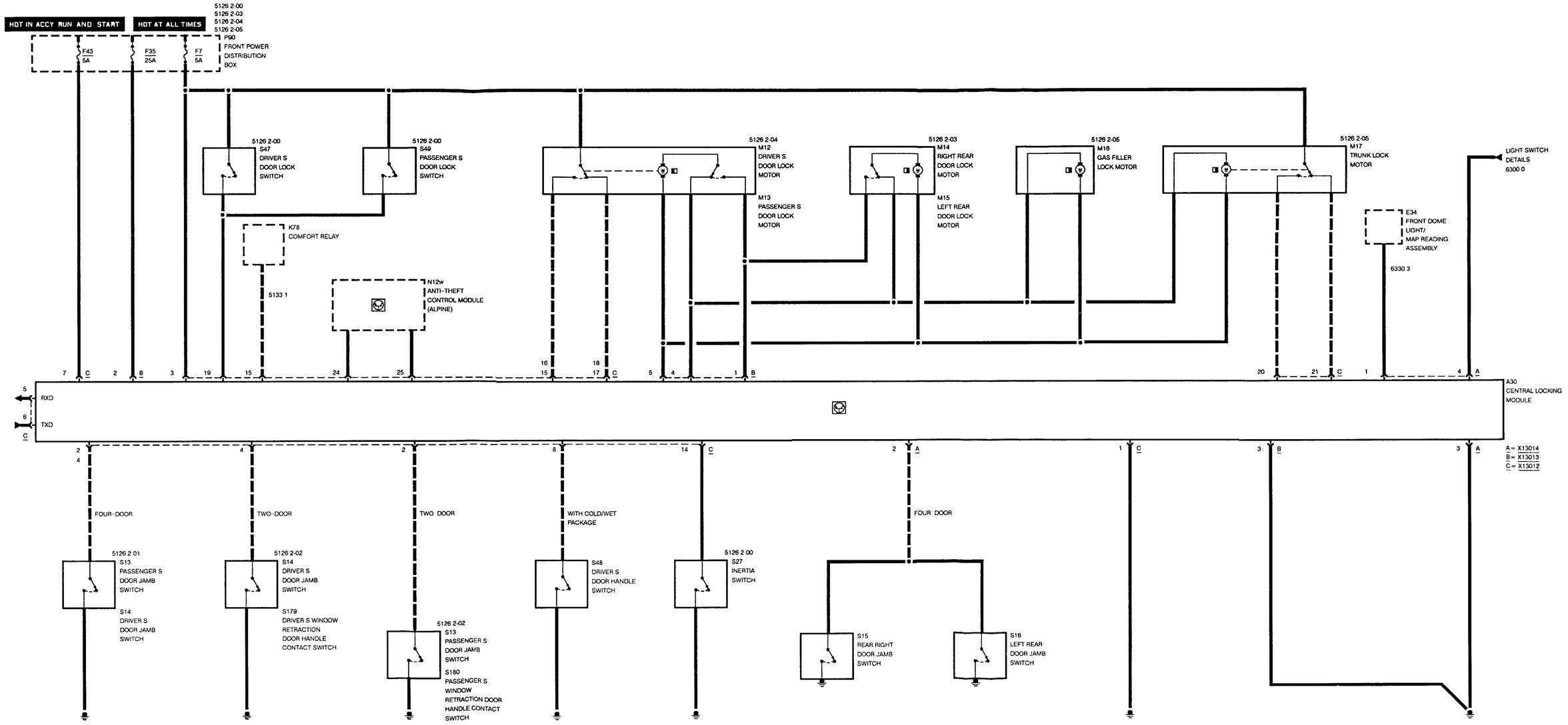
POWER MIRRORS

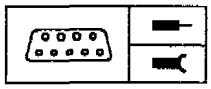
OUTSIDE MIRROR




5116.0-00
A
1 BL/WS
.5 BL/SW
.5 BL/GN
X850
X851
.5 BL/SW
.75 BL/WS
22
20
21
X257
.75 BR
.5 SW/WS
.5 BL/WS
.5 BL/SW
.5 BL/SW
.75 BL/WS
.5 BL/GN
22
20
21
X256
.5 BL/SW
.5 BL/WS
.5 BL/GN
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
.5 BR
.5 BR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X495

12/93 5126.2 1993
12/93 5126 2 1993



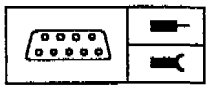


Pin Assignments

X13012

Pin	Type	Description/Function	Connection
1	M	Ground, electronics	Ground point
2	E	Passenger's door open	Passenger's door jamb switch
3	E	Voltage supply, terminal 30	Front power distribution box, fuse 7
4	E	Driver's door open	Driver's door jamb switch
5	A	RxD diagnostic data link	Data link connector
6	E/A	TxD diagnostic data link	Data link connector
7	E	Voltage supply, terminal R	Front power distribution box, fuse 43
8	E	Driver's door handle switch	Driver's door handle switch
9	A	Comfort relay control	Comfort relay
10		Not used	
11		Not used	
12		Not used	
13		Not used	
14	E	Crash signal	Inertia switch
15	E	Passenger's door lock motor locked	Passenger's door lock motor
16	E	Driver's door lock motor locked	Driver's door lock motor
17	E	Passenger's door lock motor unlocked	Passenger's door lock motor
18	E	Driver's door lock motor unlocked	Driver's door lock motor
19	E	Lock contact for arrest	Driver's and passenger's door lock switches
20	E	Trunk lock motor locked	Trunk lock motor
21	E	Trunk lock motor unlocked	Trunk lock motor
22		Not used	
23		Not used	
24	E	Interface to anti-theft module (Alpine)	Anti-theft module (Alpine)
25	E	Interface to anti-theft module (Alpine)	Anti-theft module (Alpine)
26		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

X13013

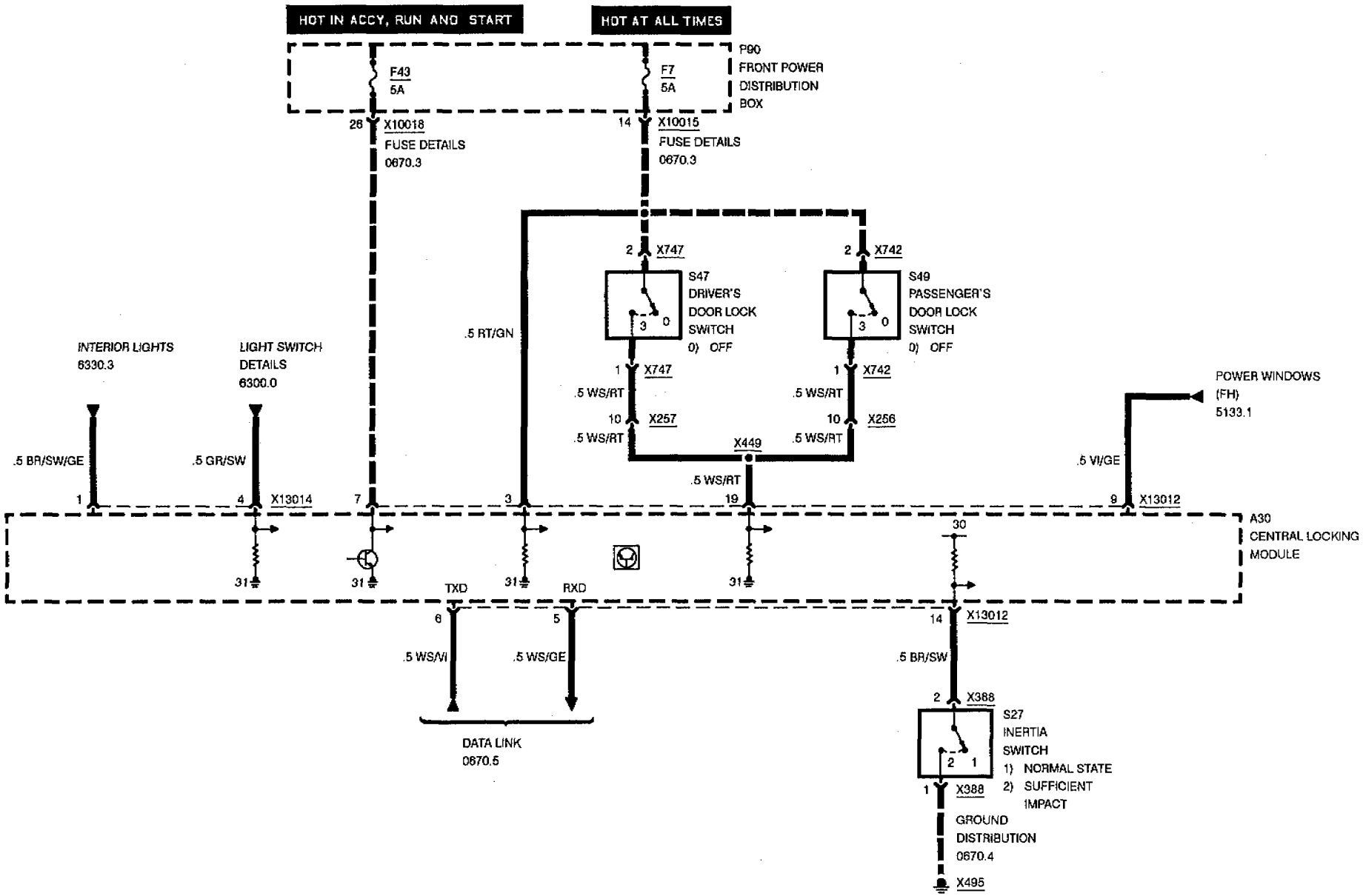
Pin	Type	Description/Function	Connection
1	A	Arrest ZV motor drives	Left and right rear lock motors
2	E	Battery voltage for ZV motor drive	Front power distribution box, fuse 35
3	M	Ground for ZV motor drives	Ground point
4	A	Lock ZV motor drives	Left and right rear door lock motors
5	A	Unlock ZV motor drives	Left and right rear door lock motors

X13014

Pin	Type	Description/Function	Connection
1	A	Activation of interior lights	Front dome light/map reading assembly
2	E	Rear doors open	Left rear and right rear door jamb switches
3	M	Ground for interior lights	Ground point
4 (CDN)	E	Parking light detection	Right park light/license plate light relay
4 (USA)	E	Parking light detection	Light switch

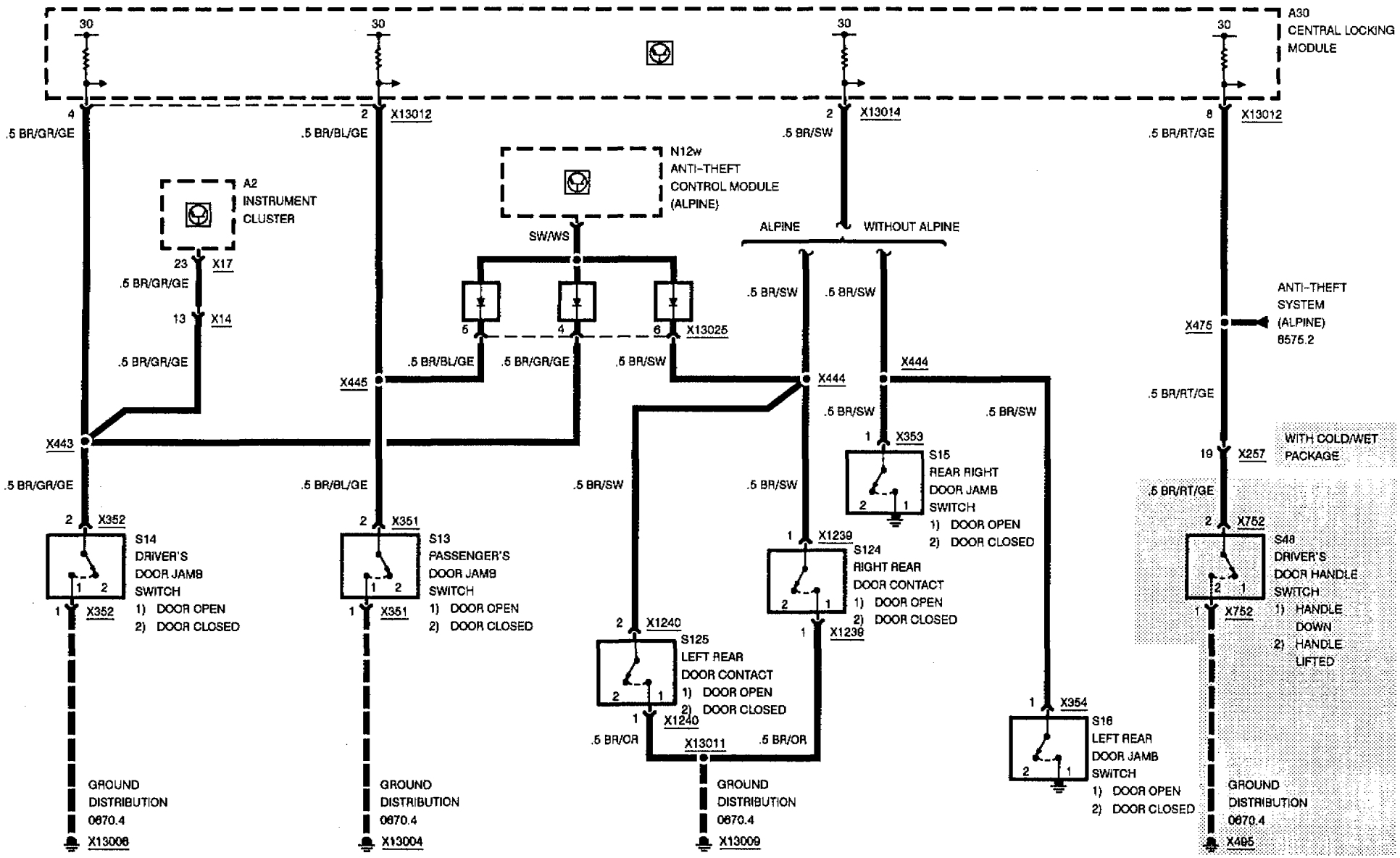
E = Input, A = Output, M = Ground

CENTRAL LOCKING MODULE II (ZVM II)



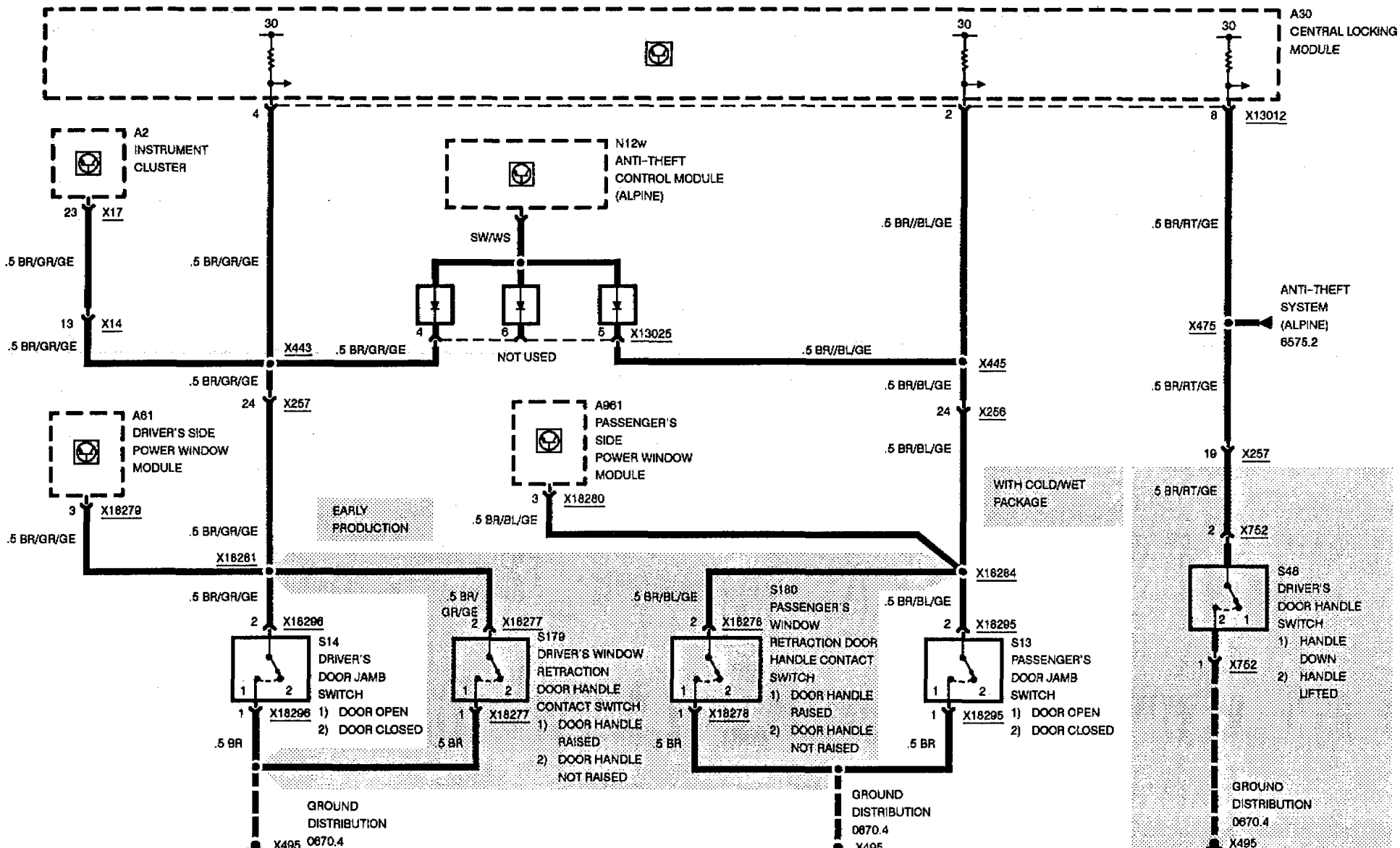
CENTRAL LOCKING MODULE II (ZVM II)

INPUTS - FOUR-DOOR



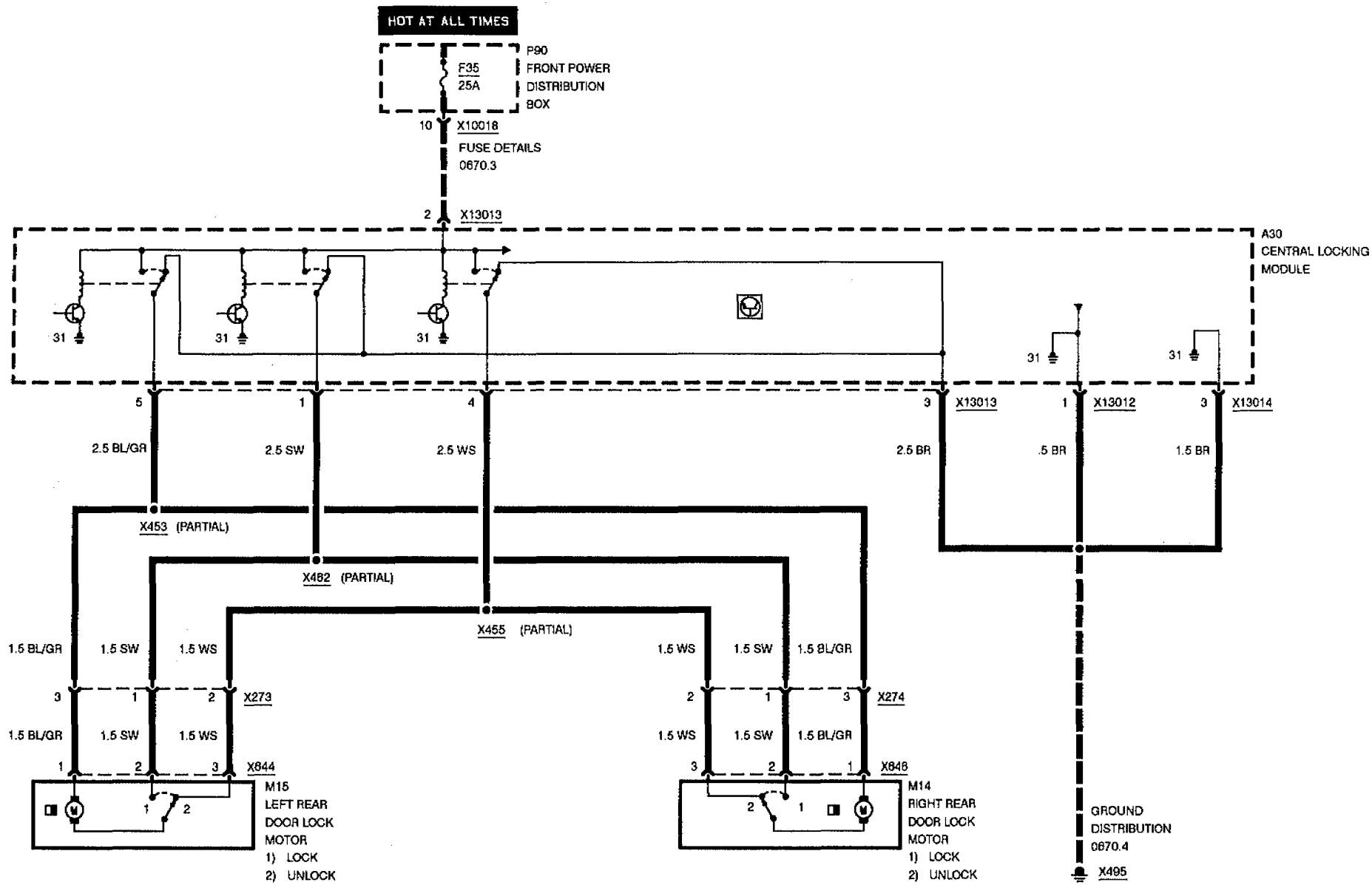
CENTRAL LOCKING MODULE II (ZVM II)

INPUTS - TWO-DOOR



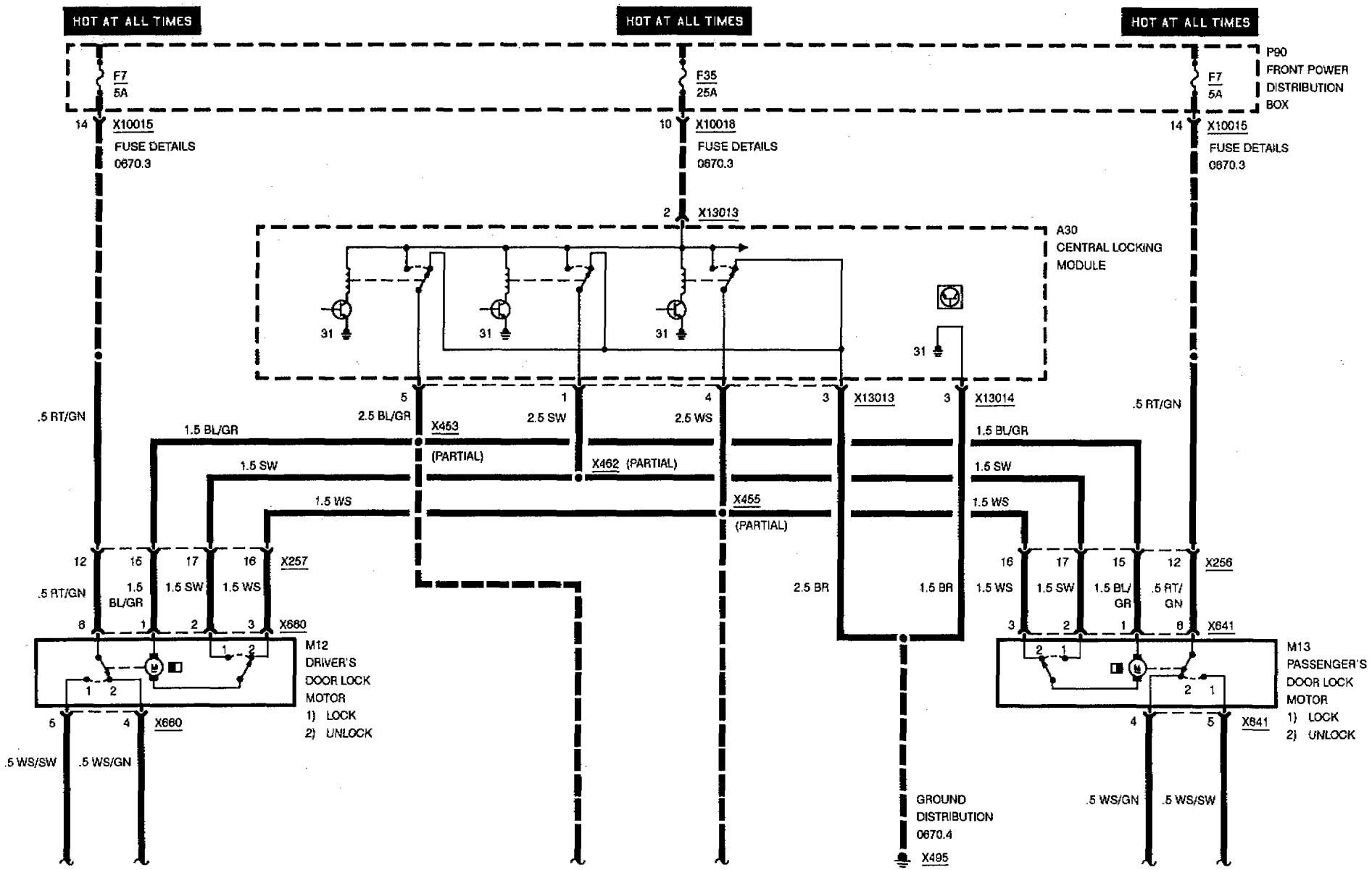
CENTRAL LOCKING MODULE II (ZVM II)

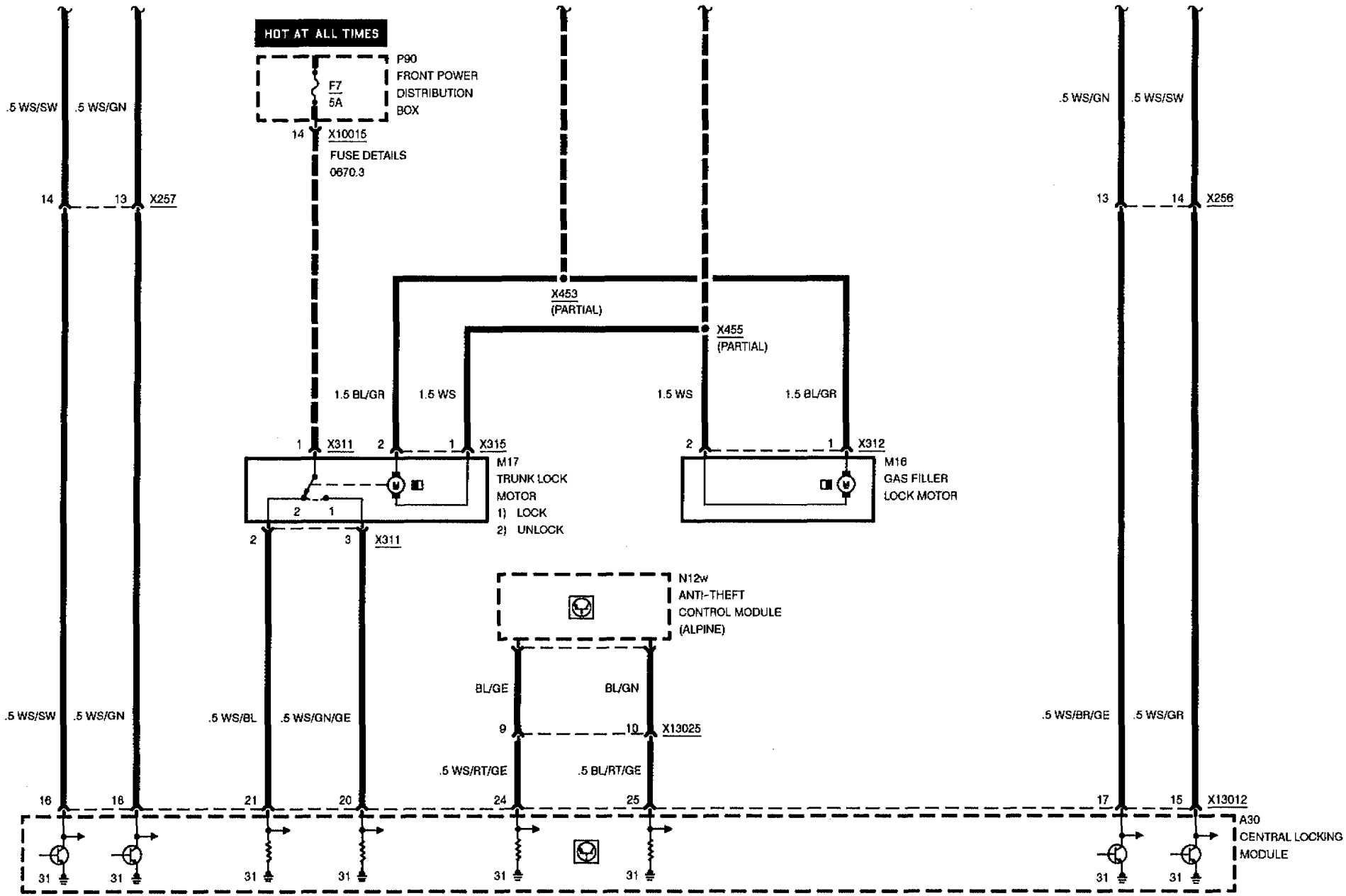
OUTPUT DETAILS



CENTRAL LOCKING MODULE II (ZVM II)

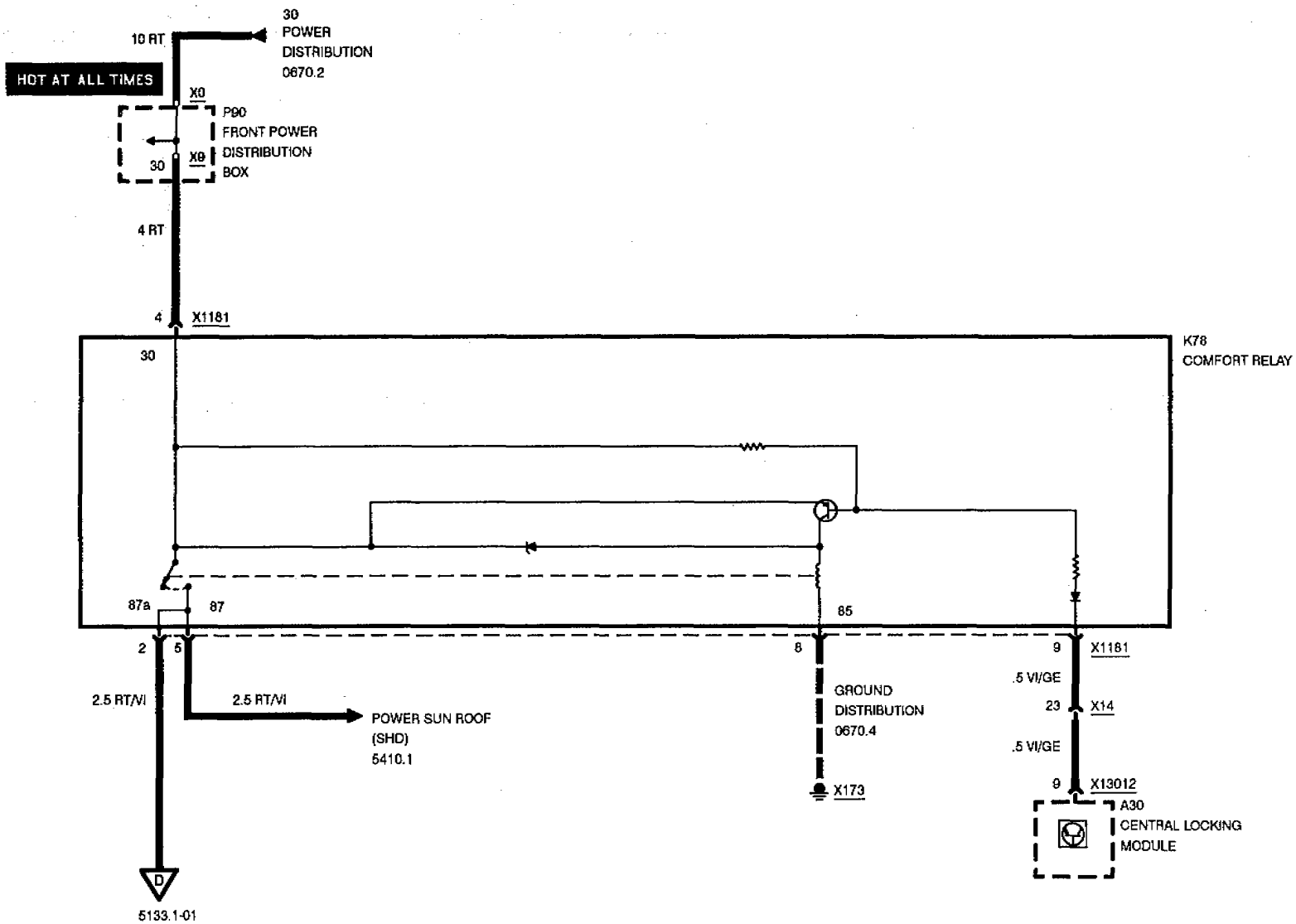
OUTPUT DETAILS




HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F7
5A
14 X10015
FUSE DETAILS
0670.3
.5 WS/SW
.5 WS/GN
14
13 X257
X453
(PARTIAL)
X455
(PARTIAL)
1.5 BL/GR
1.5 WS
1.5 WS
1.5 BL/GR
1 X311
2 1 X315
2 1 X312
M17
TRUNK LOCK
MOTOR
1) LOCK
2) UNLOCK
M16
GAS FILLER
LOCK MOTOR
2 3 X311
N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
BL/GE
BL/GN
9 10 X13025
.5 WS/RT/GE
.5 BL/RT/GE
.5 WS/BL
.5 WS/GN/GE
.5 WS/BR/GE
.5 WS/GR
16 16 21 20 24 25 17 15 X13012
A30
CENTRAL LOCKING
MODULE
31

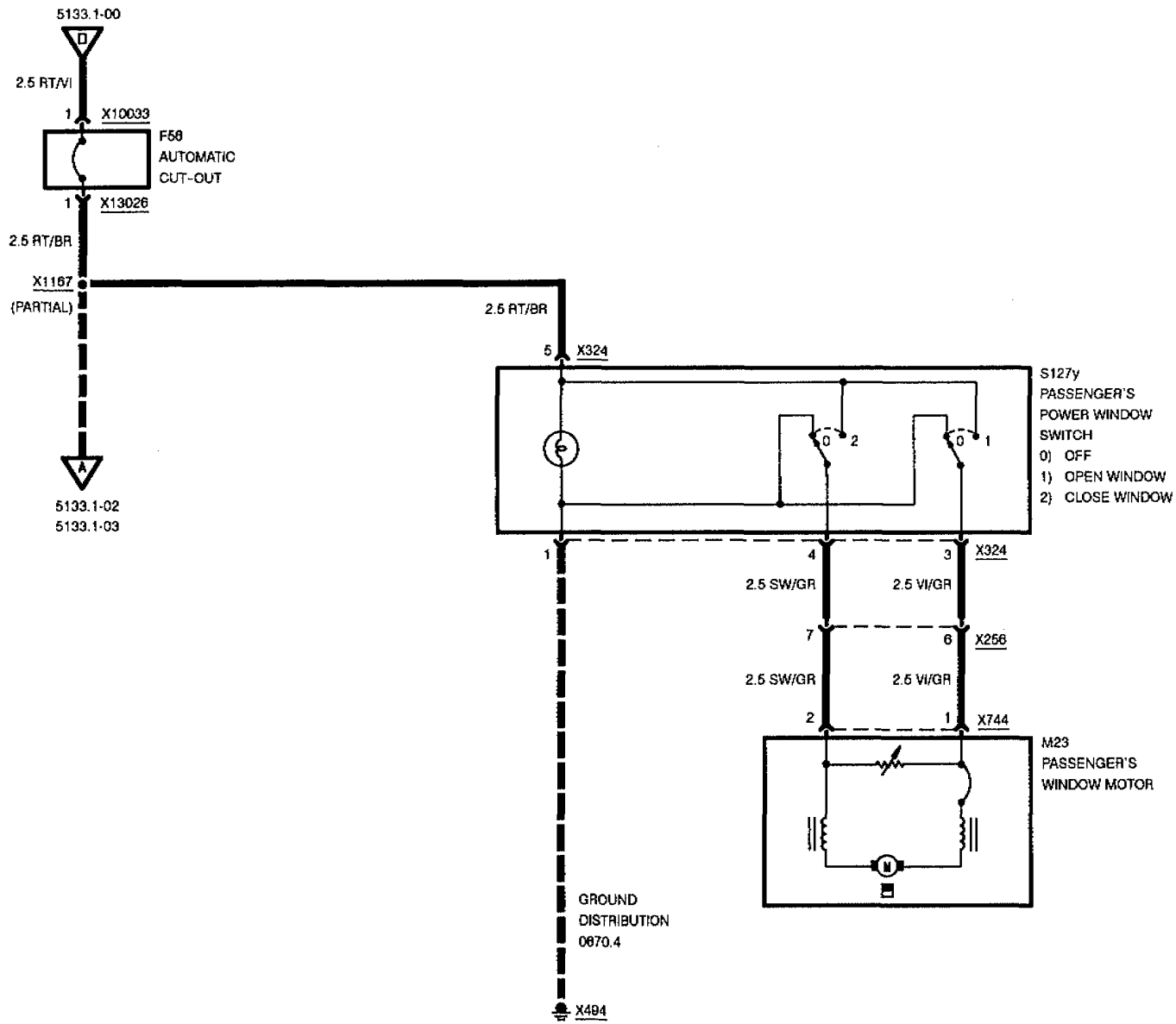
POWER WINDOWS (FH)

FOUR-DOOR



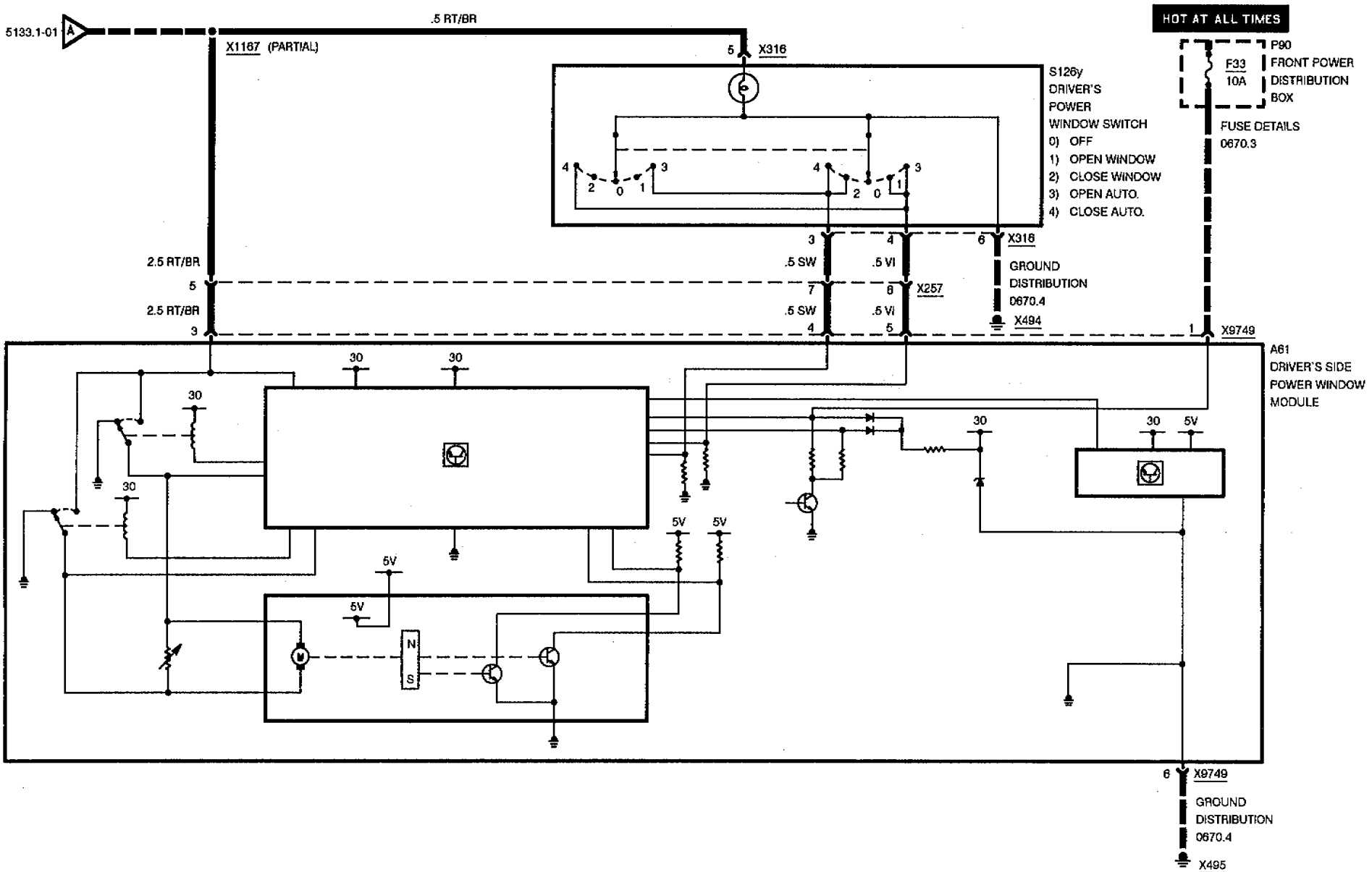
POWER WINDOWS (FH)

PASSENGER'S SIDE - FOUR DOOR



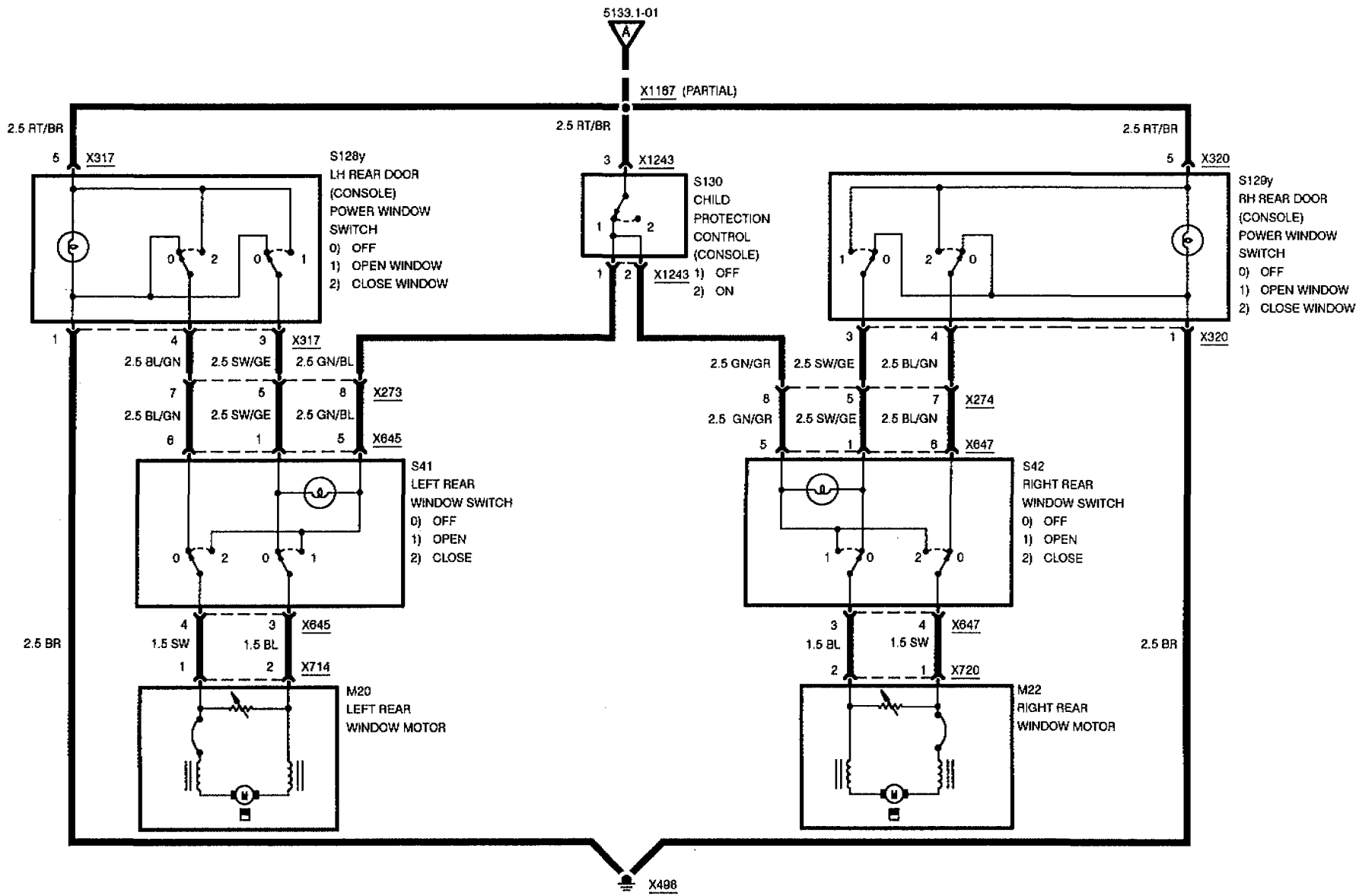
POWER WINDOWS (FH)

DRIVER'S SIDE - FOUR-DOOR



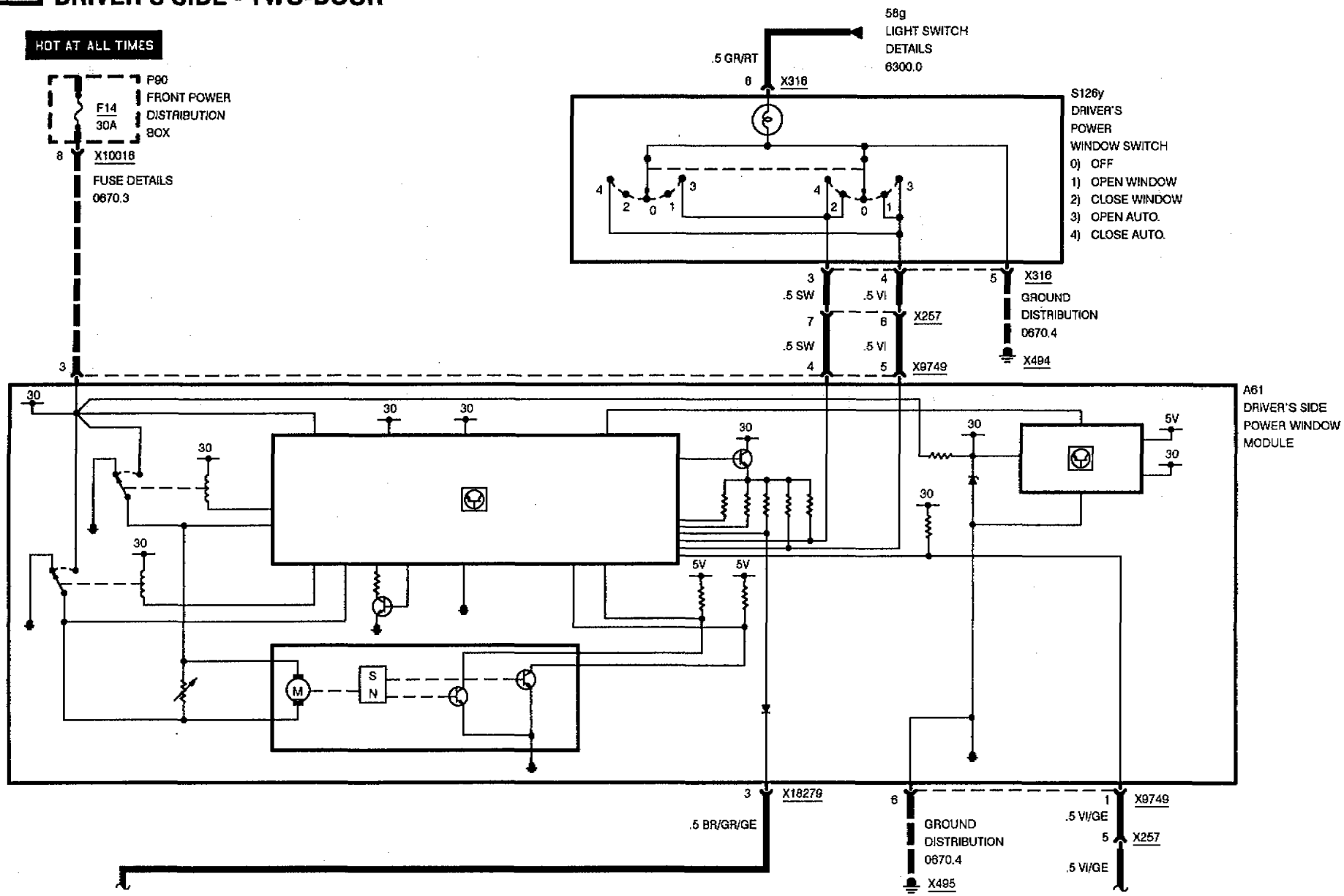
POWER WINDOWS (FH)

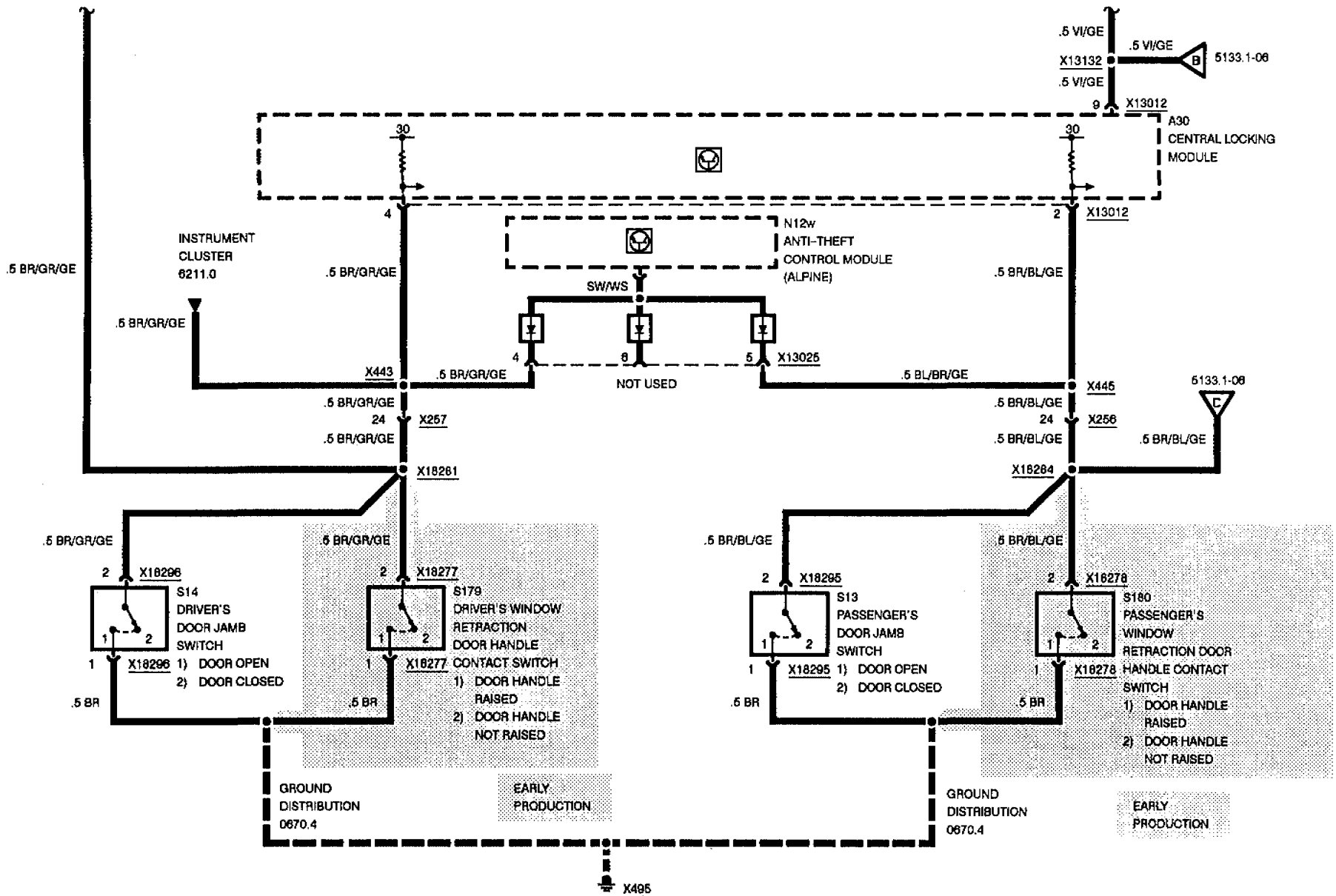
REAR WINDOWS - FOUR-DOOR



POWER WINDOWS (FH)

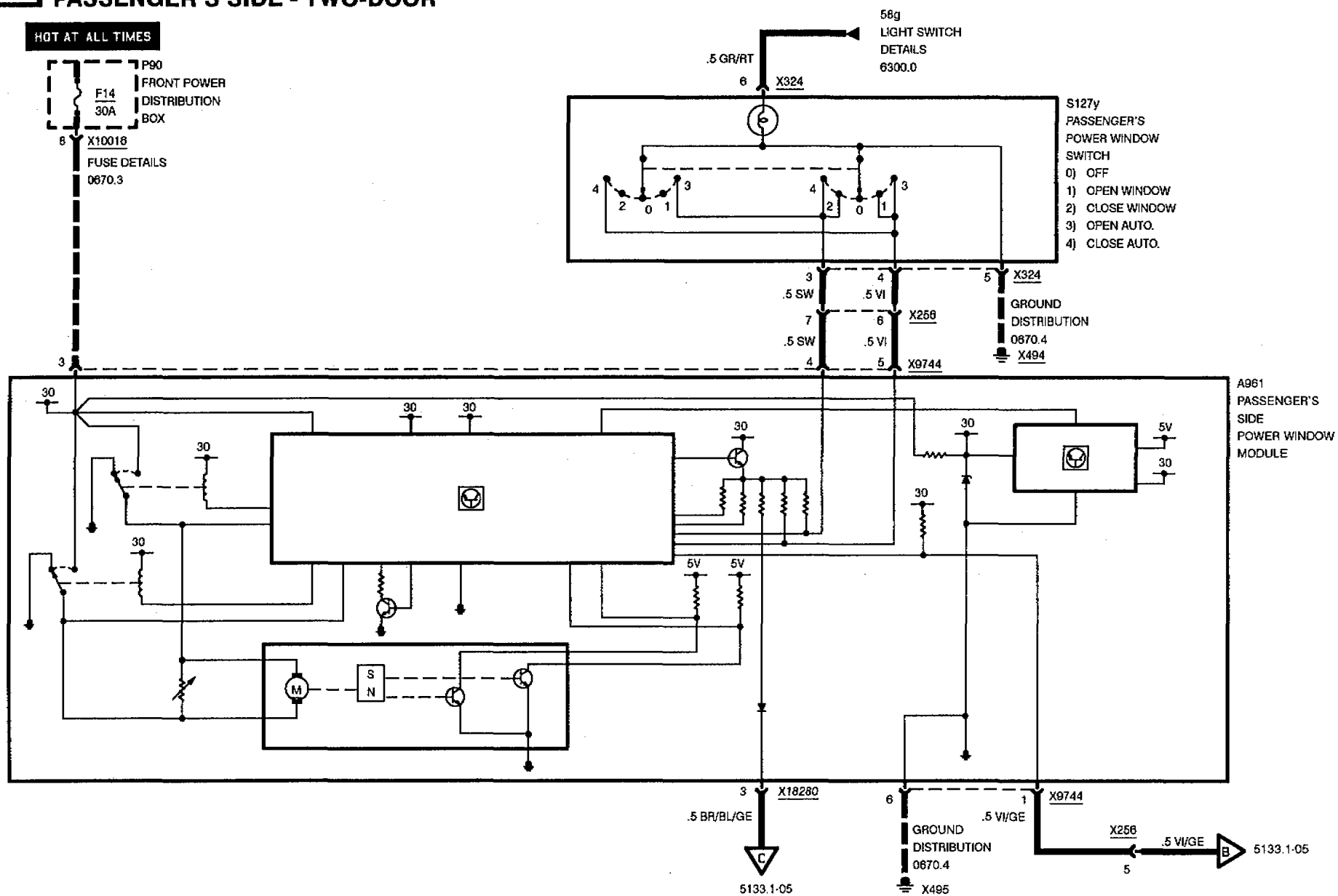
DRIVER'S SIDE - TWO-DOOR

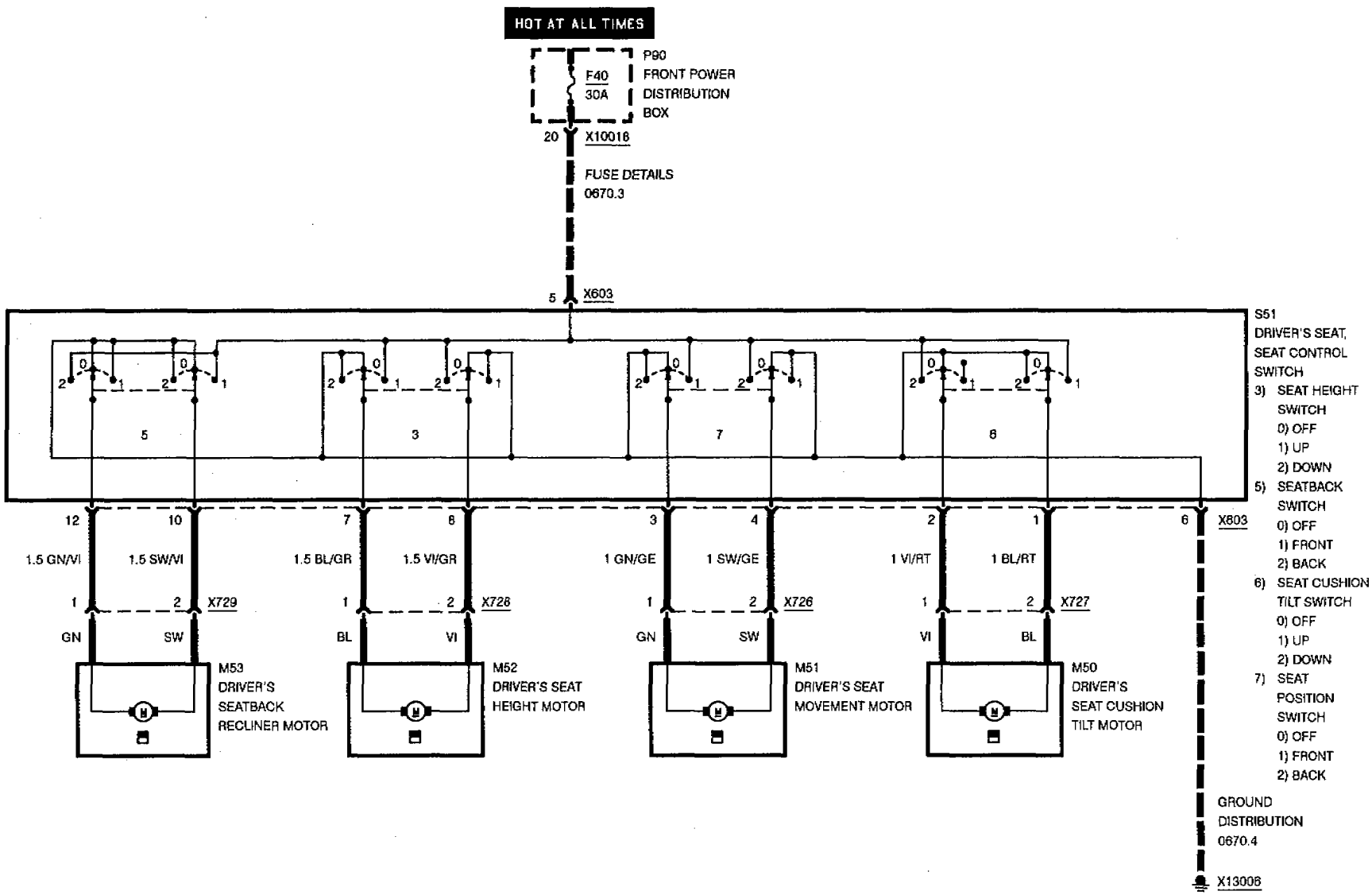


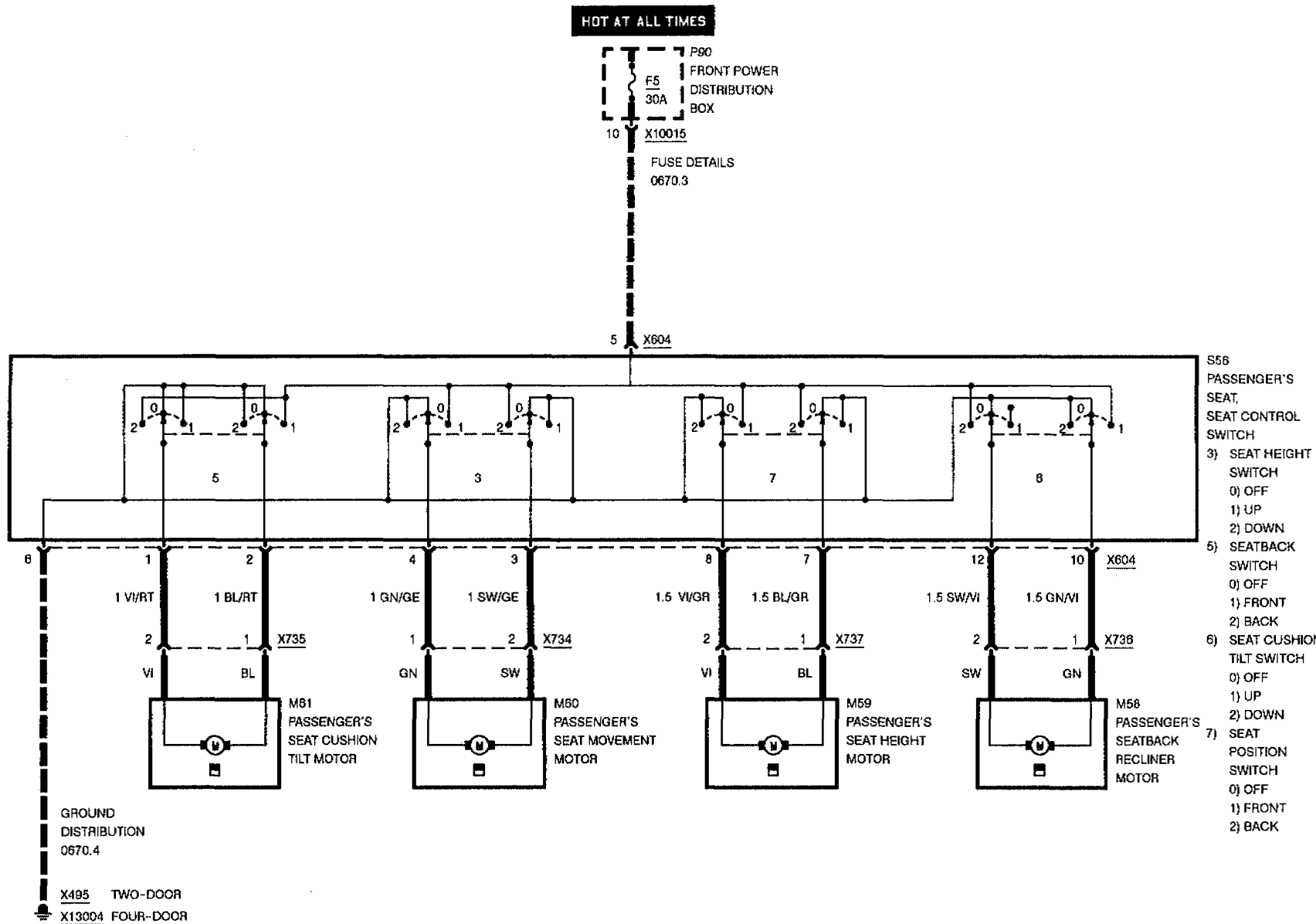

.5 VI/GE
.5 VI/GE
X13132
.5 VI/GE
B
5133.1-06
9
X13012
A30
CENTRAL LOCKING
MODULE
30
30
4
2
X13012
INSTRUMENT
CLUSTER
6211.0
.5 BR/GR/GE
N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
.5 BR/BL/GE
SW/WS
.5 BR/GR/GE
4
6
5
X13025
X443
.5 BR/GR/GE
NOT USED
.5 BL/BR/GE
X445
5133.1-06
C
.5 BR/GR/GE
24
X257
.5 BR/BL/GE
24
X256
.5 BR/GR/GE
.5 BR/BL/GE
X18261
X18264
.5 BR/GR/GE
.5 BR/BL/GE
.5 BR/BL/GE
.5 BR/GR/GE
2
X18296
S14
DRIVER'S
DOOR JAMB
SWITCH
1
2
1
X18296
1) DOOR OPEN
2) DOOR CLOSED
.5 BR
2
X18277
S179
DRIVER'S WINDOW
RETRACTION
DOOR HANDLE
CONTACT SWITCH
1) DOOR HANDLE
RAISED
2) DOOR HANDLE
NOT RAISED
1
X18277
.5 BR
2
X18295
S13
PASSENGER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
X18295
.5 BR
2
X18278
S180
PASSENGER'S
WINDOW
RETRACTION DOOR
HANDLE CONTACT
SWITCH
1) DOOR HANDLE
RAISED
2) DOOR HANDLE
NOT RAISED
X18278
.5 BR
GROUND
DISTRIBUTION
0670.4
EARLY
PRODUCTION
GROUND
DISTRIBUTION
0670.4
EARLY
PRODUCTION
X495

POWER WINDOWS (FH)

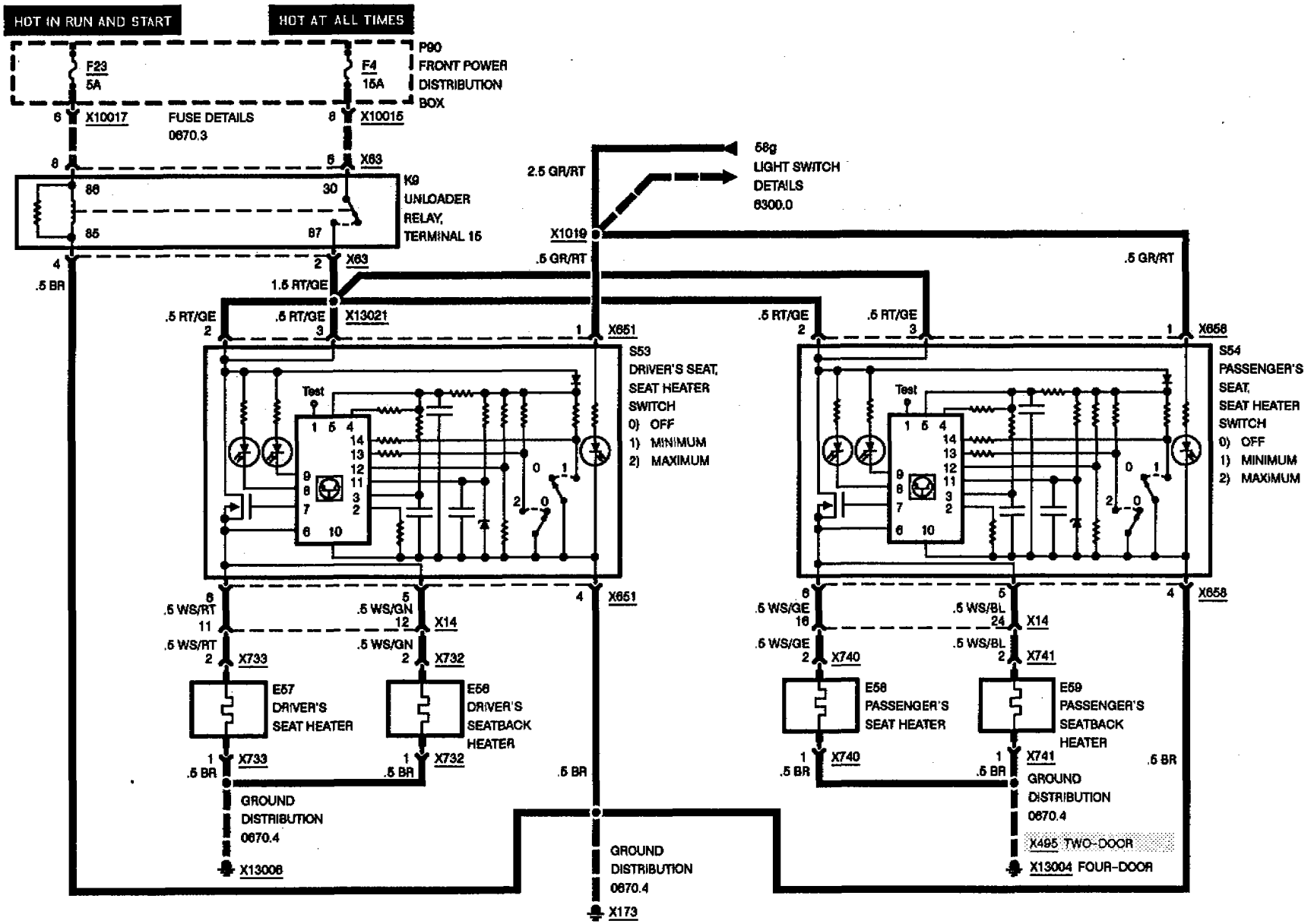
PASSENGER'S SIDE - TWO-DOOR



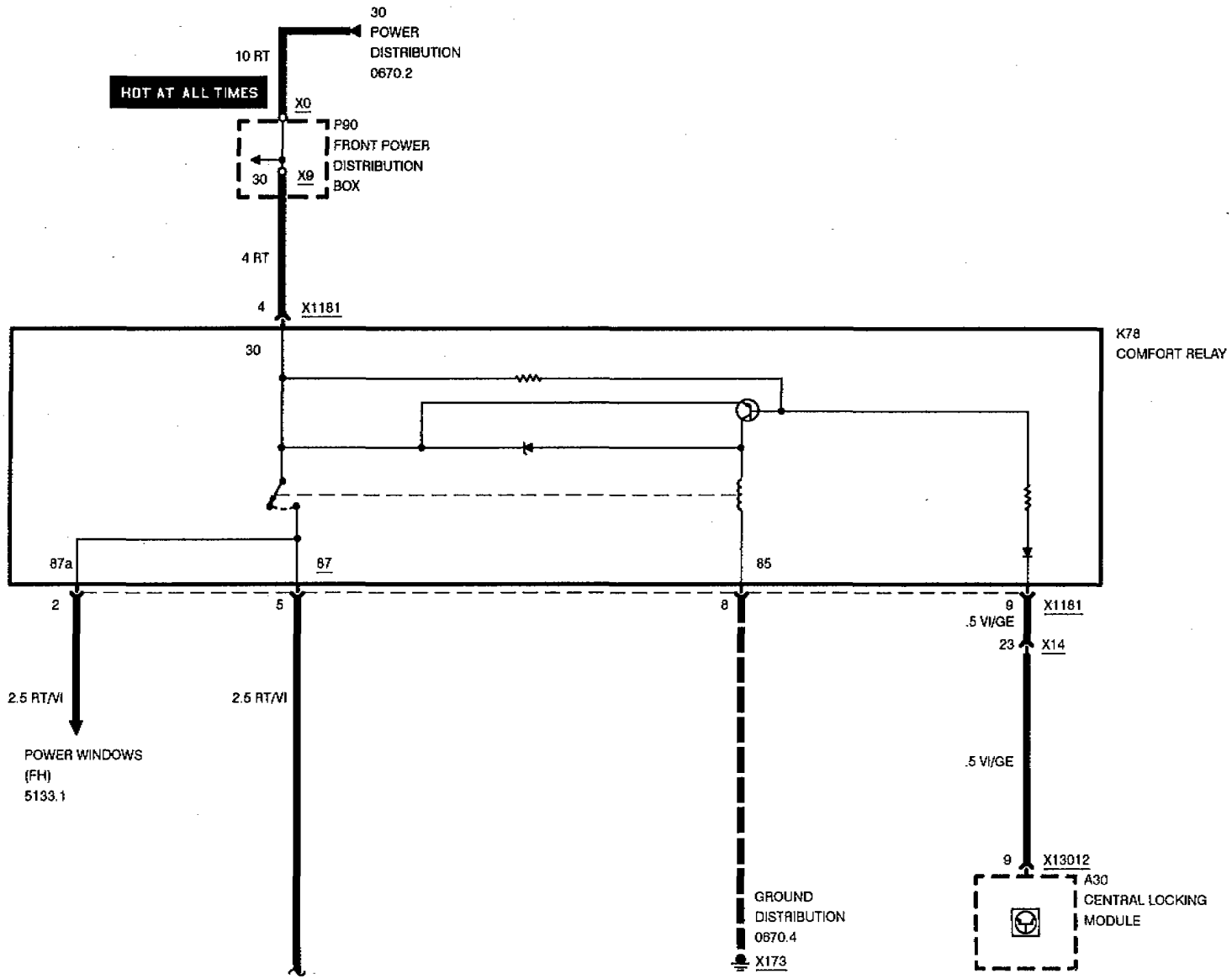

HOT AT ALL TIMES
P90
F40
30A
FRONT POWER
DISTRIBUTION
BOX
20
X10016
FUSE DETAILS
0670.3
5
X603
S51
DRIVER'S SEAT,
SEAT CONTROL
SWITCH
3) SEAT HEIGHT
SWITCH
0) OFF
1) UP
2) DOWN
5) SEATBACK
SWITCH
0) OFF
1) FRONT
2) BACK
6) SEAT CUSHION
TILT SWITCH
0) OFF
1) UP
2) DOWN
7) SEAT
POSITION
SWITCH
0) OFF
1) FRONT
2) BACK
5
3
7
8
12
10
7
8
3
4
2
1
6
X603
1.5 GN/VI
1.5 SW/VI
1.5 BL/GR
1.5 VI/GR
1 GN/GE
1 SW/GE
1 VI/RT
1 BL/RT
1
2
X729
X728
X726
X727
GN
SW
BL
VI
M53
DRIVER'S
SEATBACK
RECLINER MOTOR
M52
DRIVER'S SEAT
HEIGHT MOTOR
M51
DRIVER'S SEAT
MOVEMENT MOTOR
M50
DRIVER'S
SEAT CUSHION
TILT MOTOR
GROUND
DISTRIBUTION
0670.4
X13006

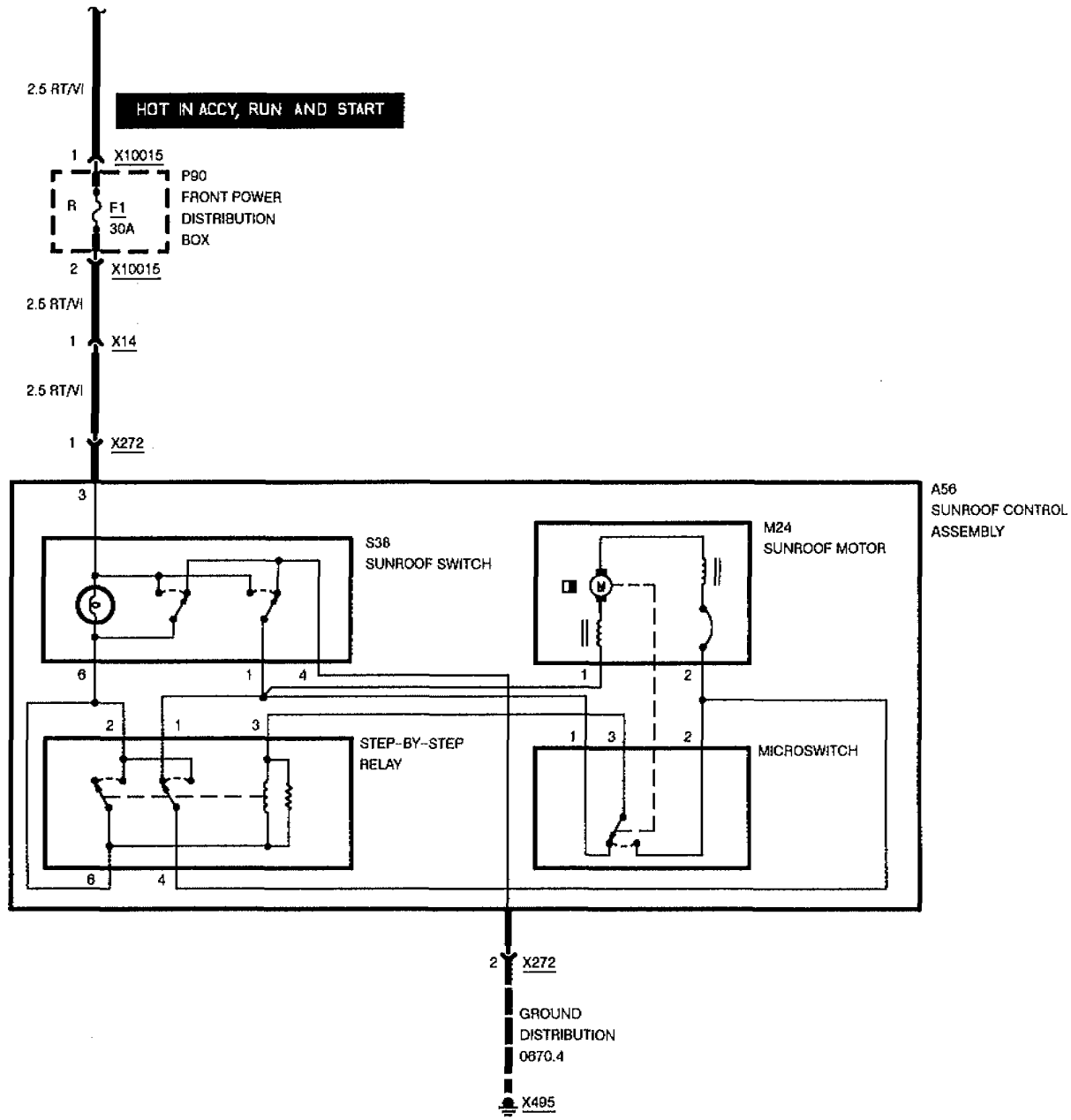

HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F5
30A
10
X10015
FUSE DETAILS
0670.3
5
X604
S56
PASSENGER'S SEAT, SEAT CONTROL SWITCH
3) SEAT HEIGHT SWITCH
0) OFF
1) UP
2) DOWN
5) SEATBACK SWITCH
0) OFF
1) FRONT
2) BACK
6) SEAT CUSHION TILT SWITCH
0) OFF
1) UP
2) DOWN
7) SEAT POSITION SWITCH
0) OFF
1) FRONT
2) BACK
6
1 VI/RT
1 BL/RT
1 GN/GE
1 SW/GE
1.5 VI/GR
1.5 BL/GR
1.5 SW/VI
1.5 GN/VI
X735
X734
X737
X738
X604
VI
BL
GN
SW
M61
PASSENGER'S SEAT CUSHION TILT MOTOR
M60
PASSENGER'S SEAT MOVEMENT MOTOR
M59
PASSENGER'S SEAT HEIGHT MOTOR
M58
PASSENGER'S SEATBACK RECLINER MOTOR
GROUND DISTRIBUTION
0670.4
X495 TWO-DOOR
X13004 FOUR-DOOR

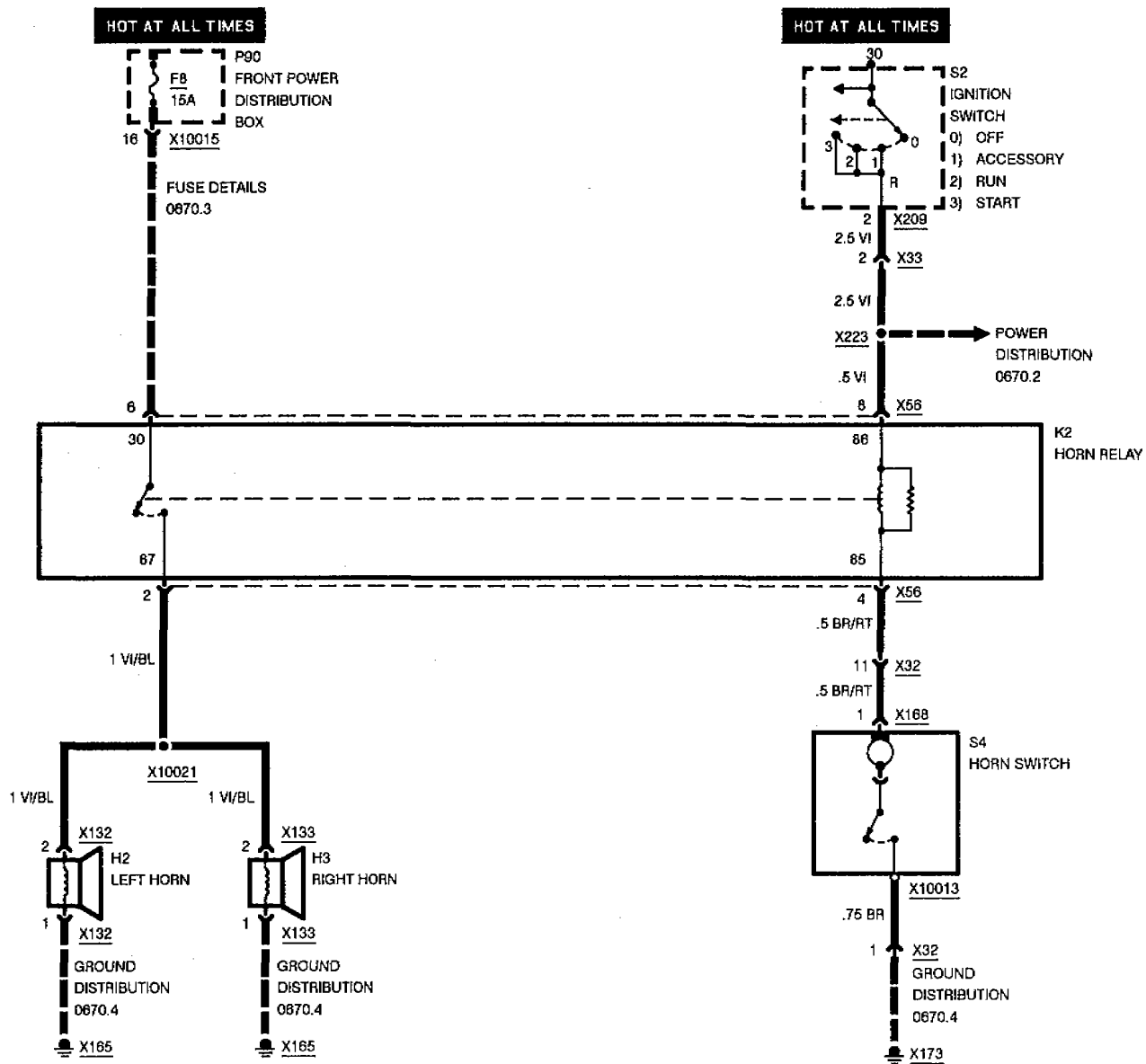
HEATED SEATS



POWER SUN ROOF (SHD)

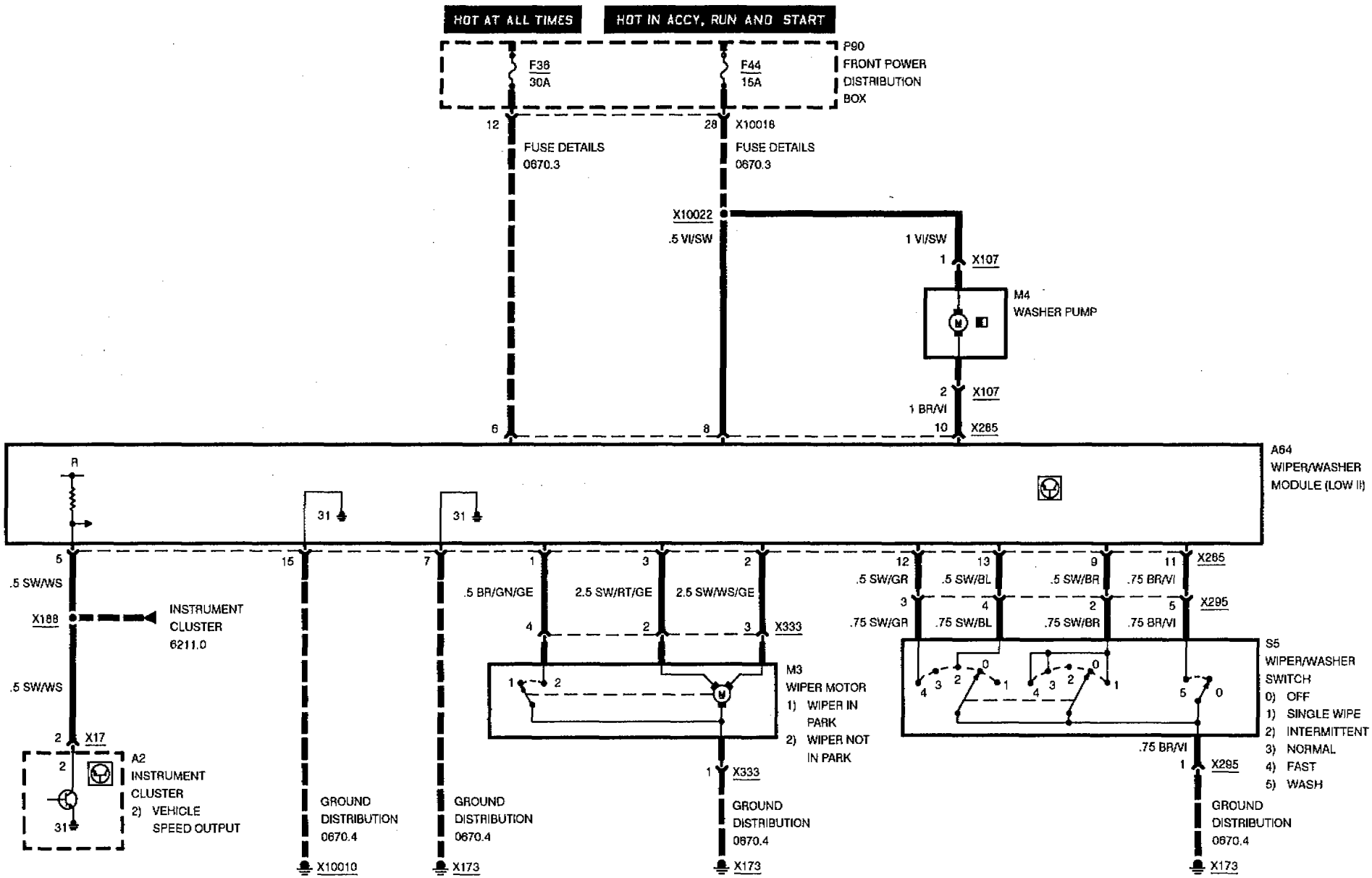



2.5 RT/VI
HOT IN ACCY, RUN AND START
1
X10015
P90
FRONT POWER
DISTRIBUTION
BOX
R
F1
30A
2
X10015
2.5 RT/VI
1
X14
2.5 RT/VI
1
X272
3
A56
SUNROOF CONTROL
ASSEMBLY
S36
SUNROOF SWITCH
M24
SUNROOF MOTOR
6
1
4
1
2
2
1
3
STEP-BY-STEP
RELAY
1
3
2
MICROSWITCH
6
4
2
X272
GROUND
DISTRIBUTION
0670.4
X495

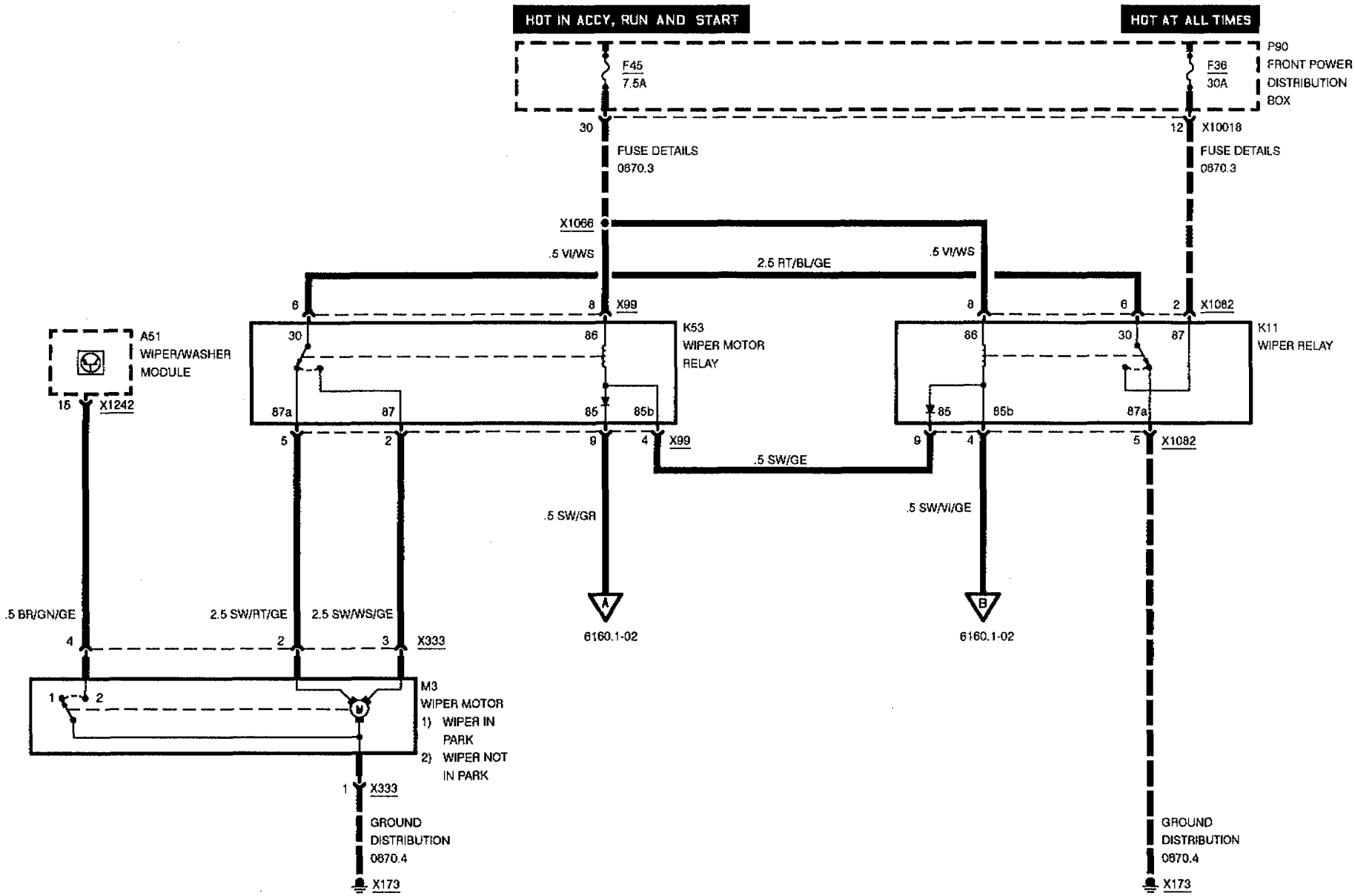

HOT AT ALL TIMES
P90
F8
15A
FRONT POWER
DISTRIBUTION
BOX
16
X10015
FUSE DETAILS
0670.3
HOT AT ALL TIMES
30
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
3
2
1
0
R
2
X209
2.5 VI
2
X33
2.5 VI
X223
POWER
DISTRIBUTION
0670.2
.5 VI
6
8
X56
K2
HORN RELAY
30
86
87
85
2
4
X56
.5 BR/RT
1 VI/BL
11
X32
.5 BR/RT
1
X168
S4
HORN SWITCH
X10021
1 VI/BL
1 VI/BL
2
X132
H2
LEFT HORN
1
X132
GROUND
DISTRIBUTION
0670.4
X165
2
X133
H3
RIGHT HORN
1
X133
GROUND
DISTRIBUTION
0670.4
X165
X10013
.75 BR
1
X32
GROUND
DISTRIBUTION
0670.4
X173

WIPER/WASHER MODULE (WWM)

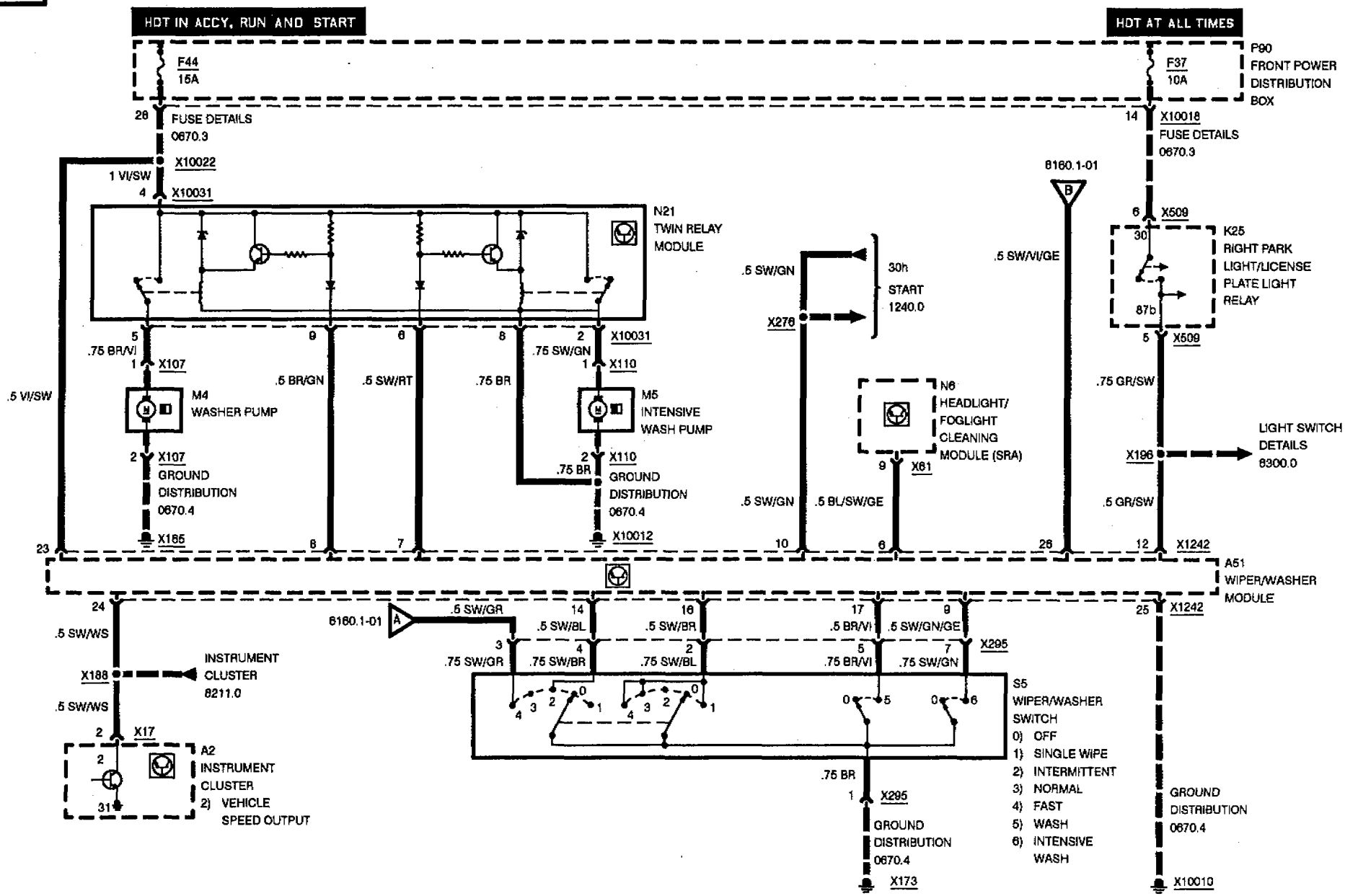
USA



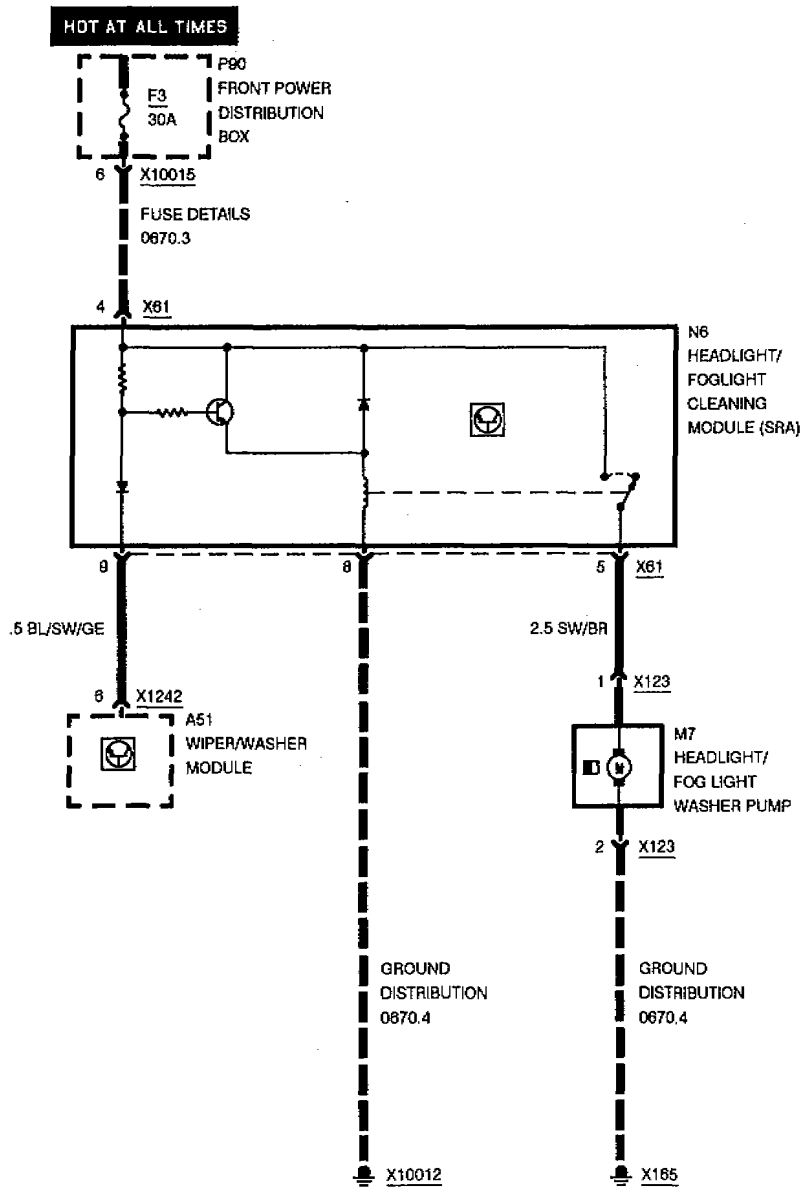
WIPER/WASHER MODULE (WWM)



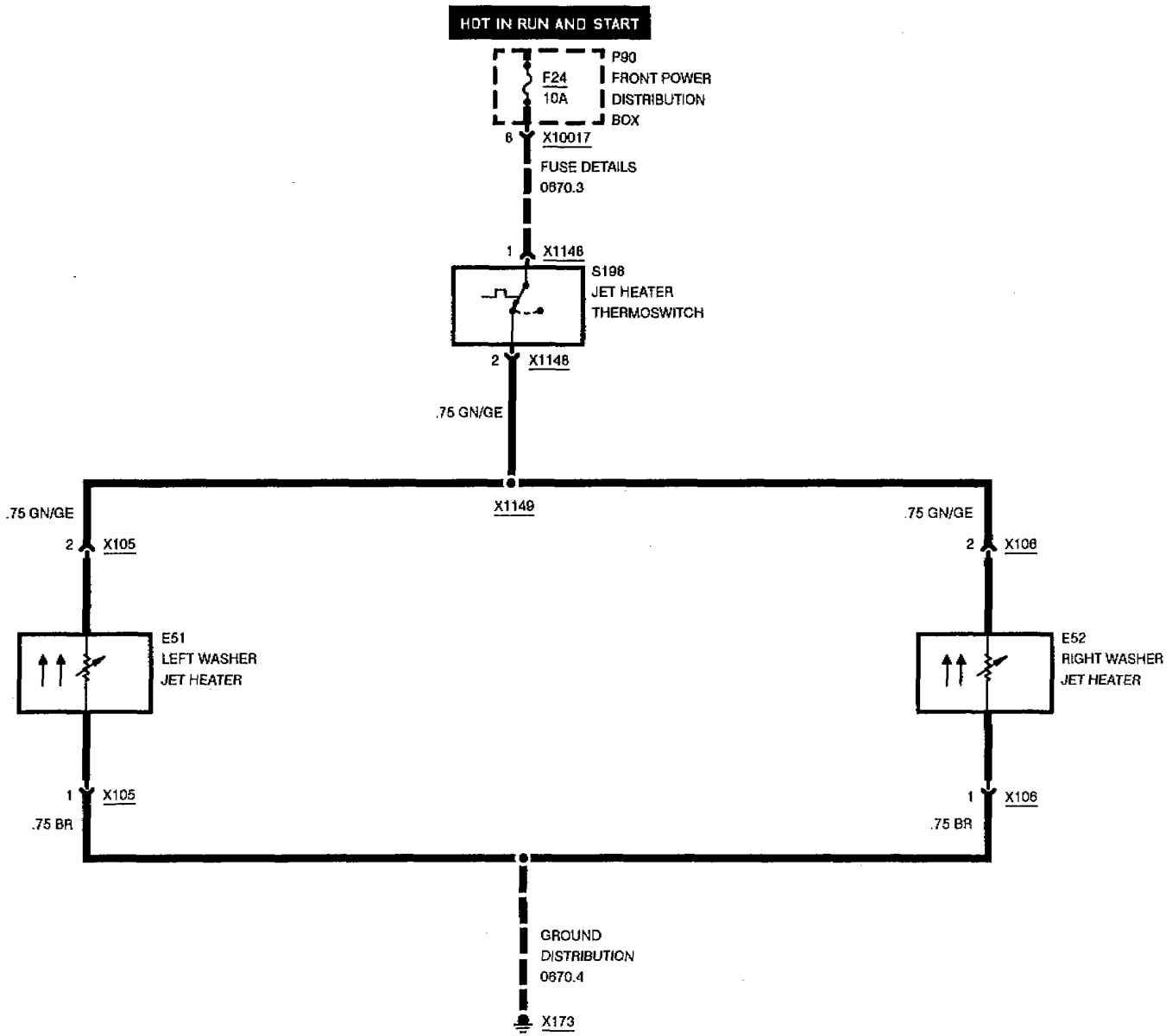
WIPER/WASHER MODULE (WWM)



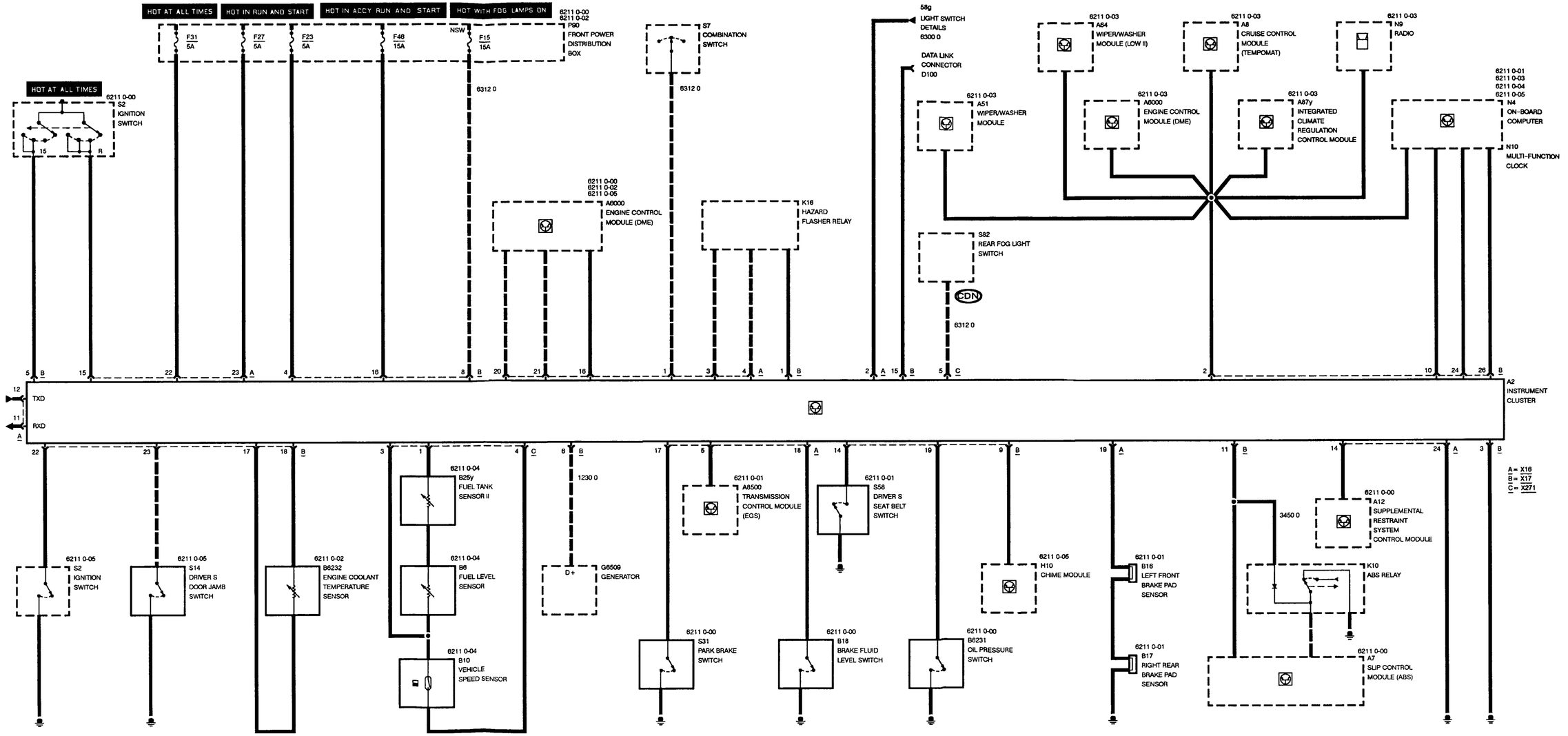
HEADLIGHT WASHER (SRA)

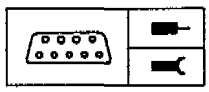


WINDSHIELD WASHER JET HEATERS



12/93 6211 0 1993
12/93 6211 0 1993





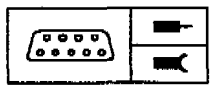
Pin Assignments

A = X16	26 Pins, white
B = X17	26 Pins, blue
C = X271	12 Pins, black

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13		Not used	
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15	E	Voltage supply, terminal R for airbag warning lamp (SRS)	Ignition switch, terminal R
16	E	"Check engine" indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21	E	Fuel consumption signal + KVA	Engine control module (DME)
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point

E = Input, A = Output, M = Ground



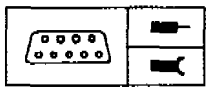
Pin Assignments

Pin	Type	Description/Function	Connection
25		Not used	
26		Not used	

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10	A	Information signal, fuel tank content	On-board computer
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS)
12		Not used	
13		Not used	
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distibution box, fuse 46
17	E	Coolant temperature sensor	Coolant temperature sensor
18	E	Coolant temperature sensor	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21		Not used	
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver's door open	Driver's door jamb switch
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

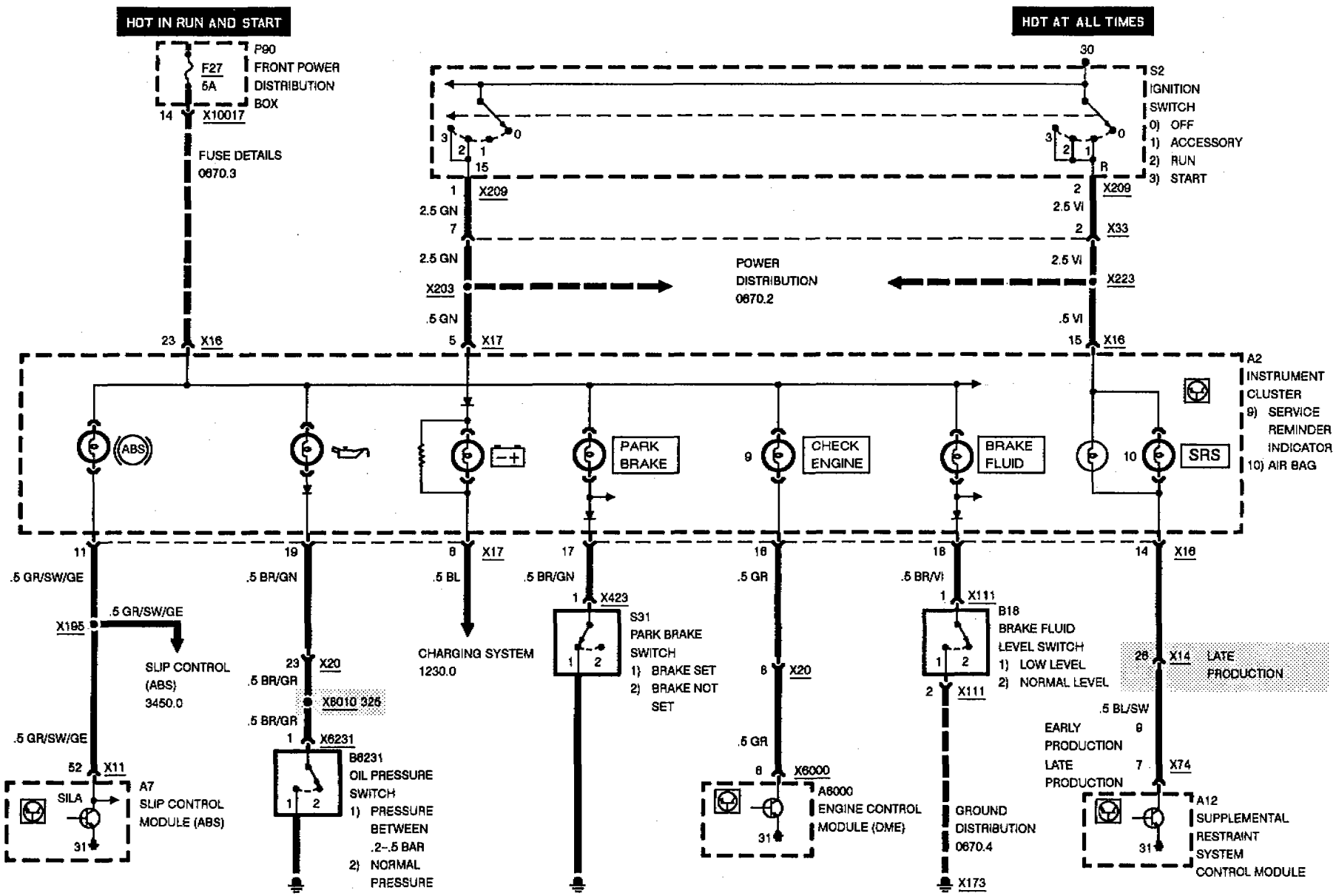
X271

Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal tw	Vehicle speed sensor
5 CDN	E	Rear fog lights indicator control	Rear fog light switch
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

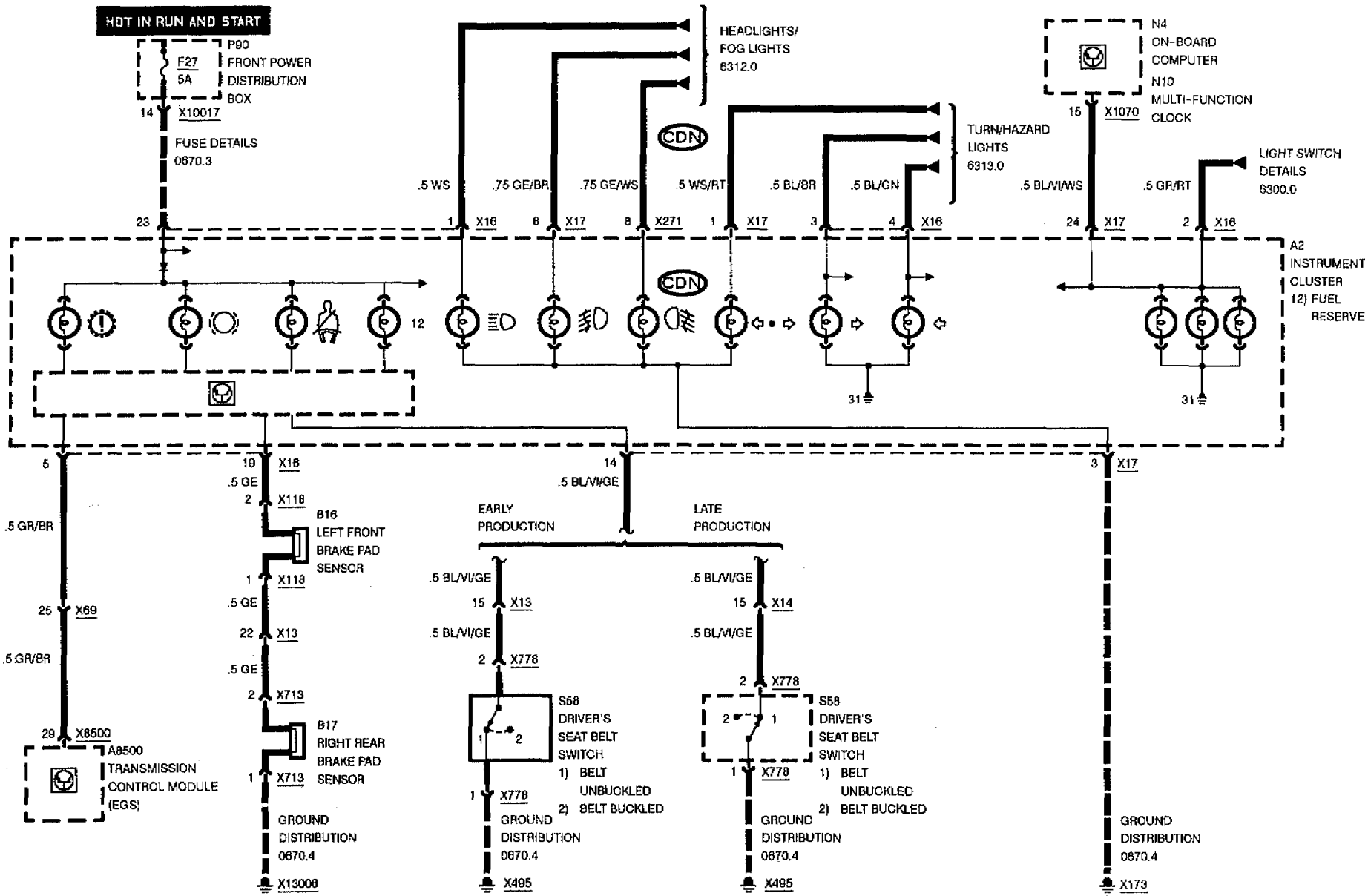
INSTRUMENT CLUSTER

INDICATORS



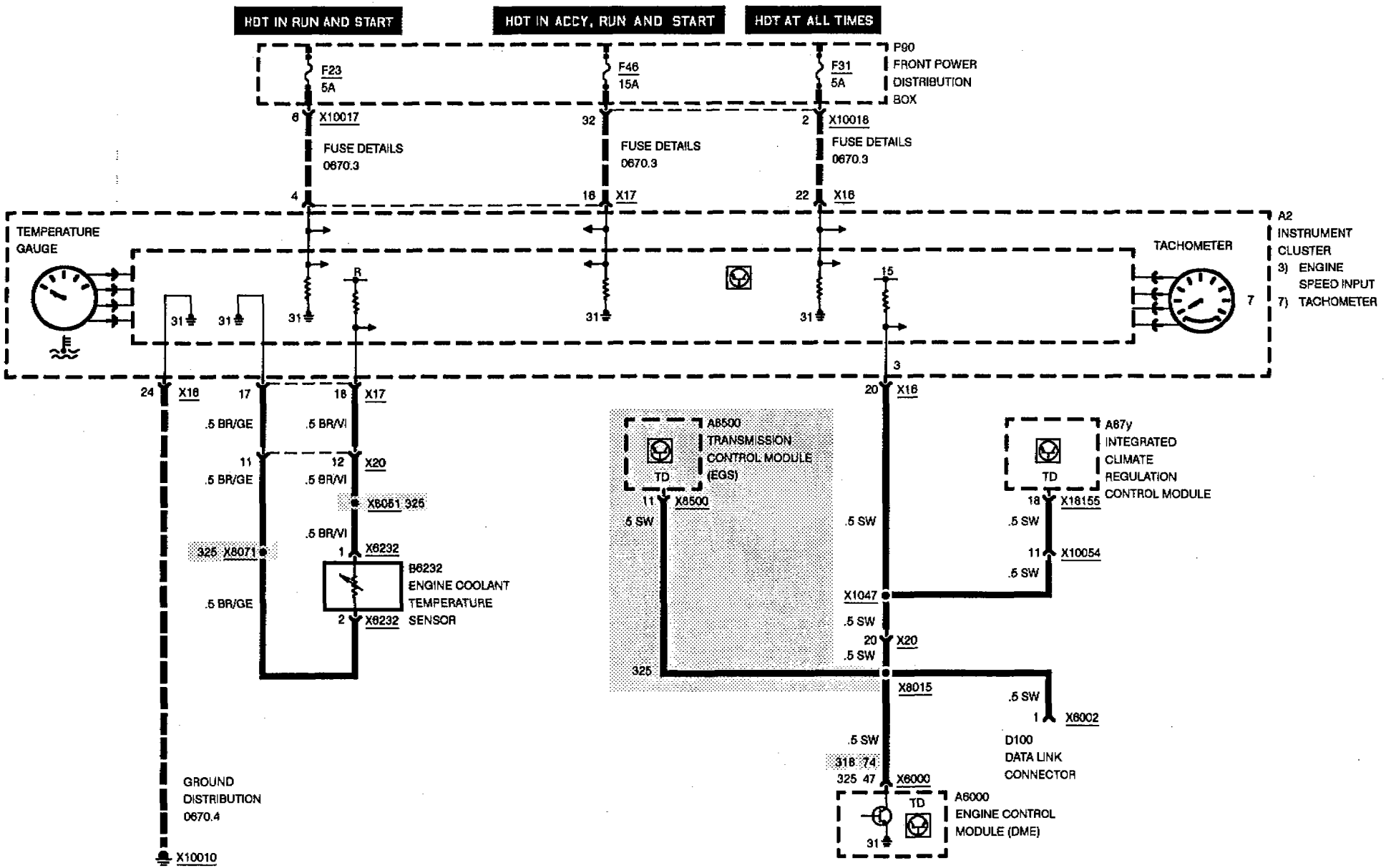
BMW 3 INSTRUMENT CLUSTER

INDICATORS



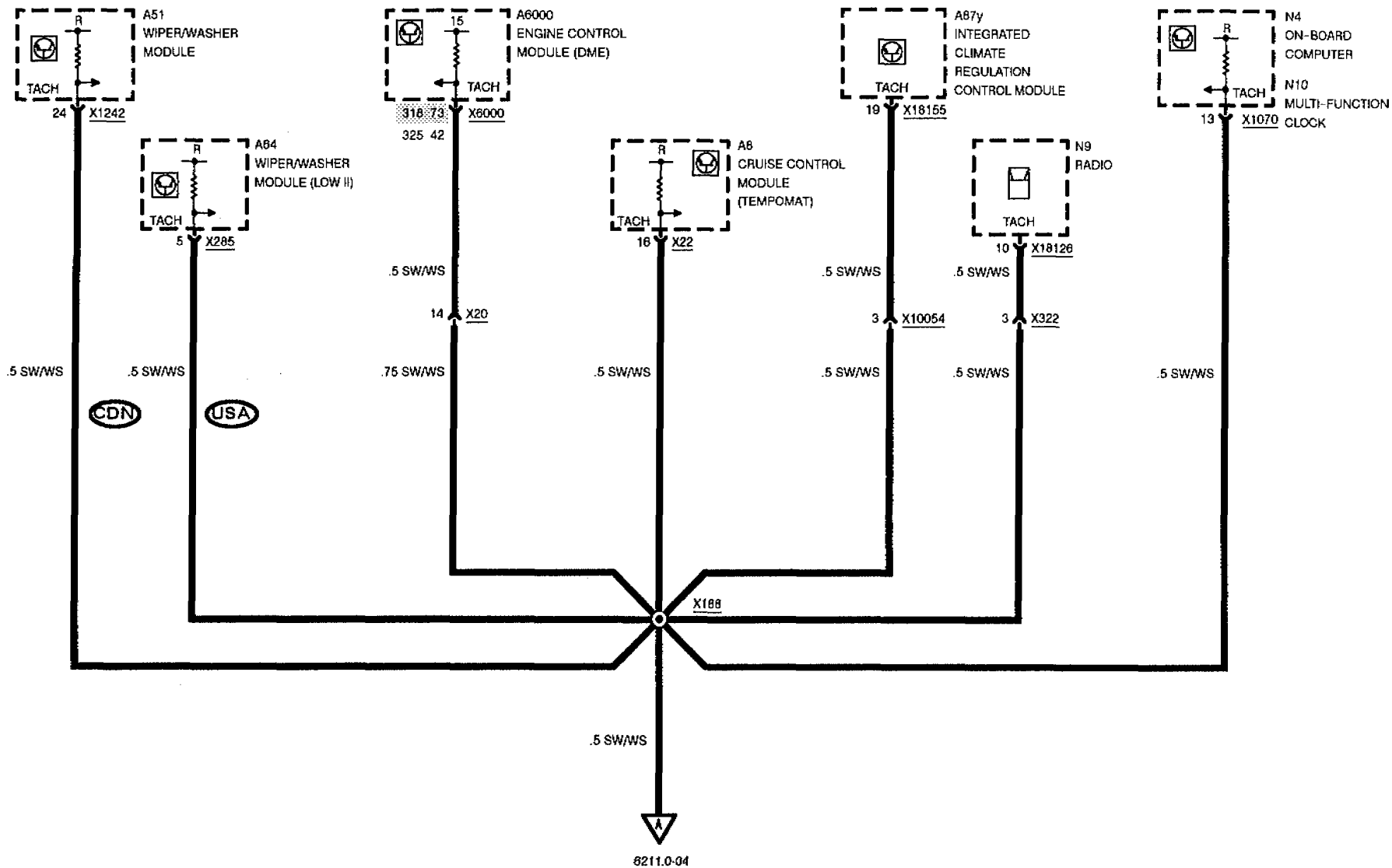
INSTRUMENT CLUSTER

INDICATORS



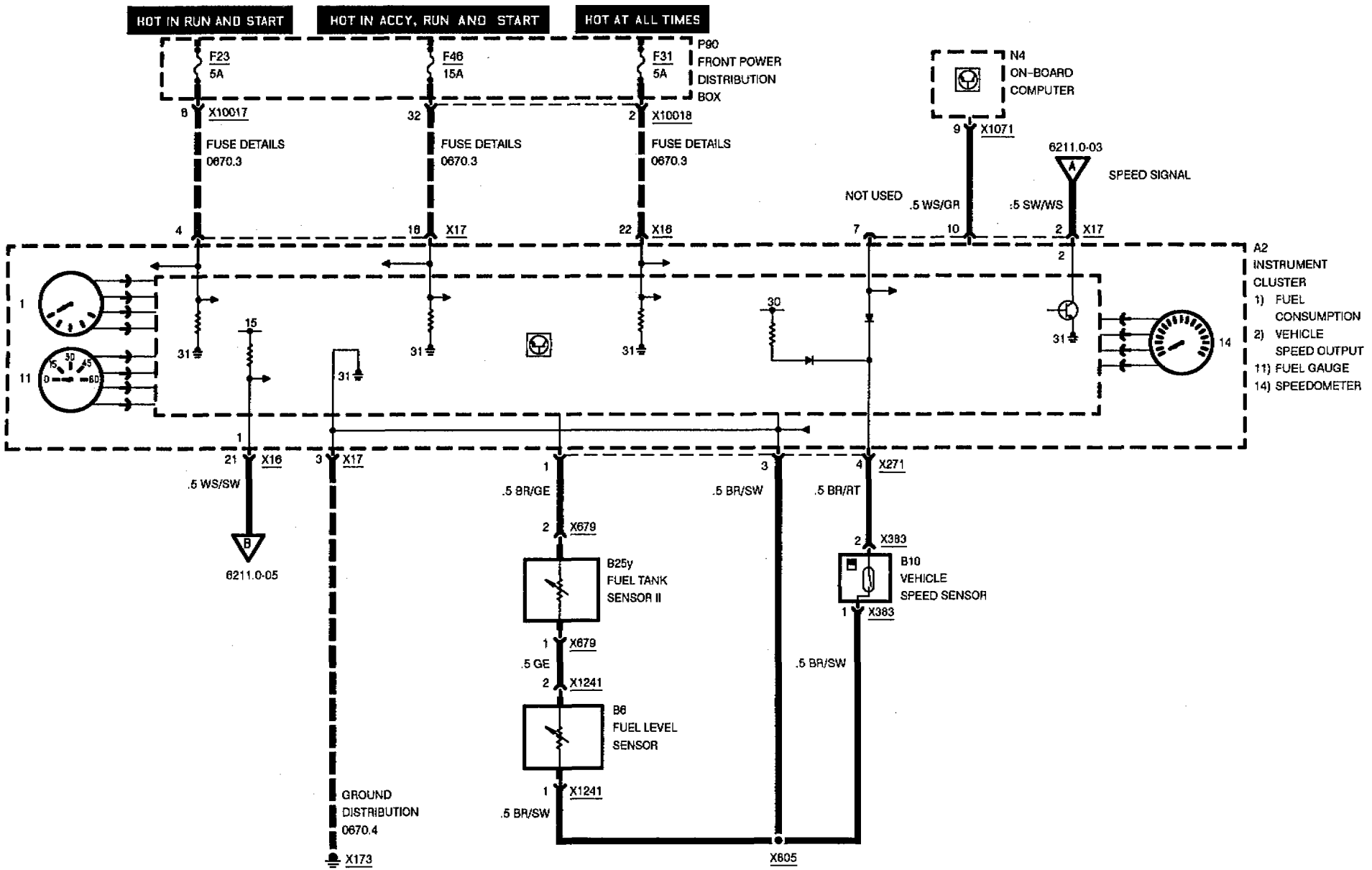
INSTRUMENT CLUSTER

SIGNAL-OUTPUT SPEEDOMETER



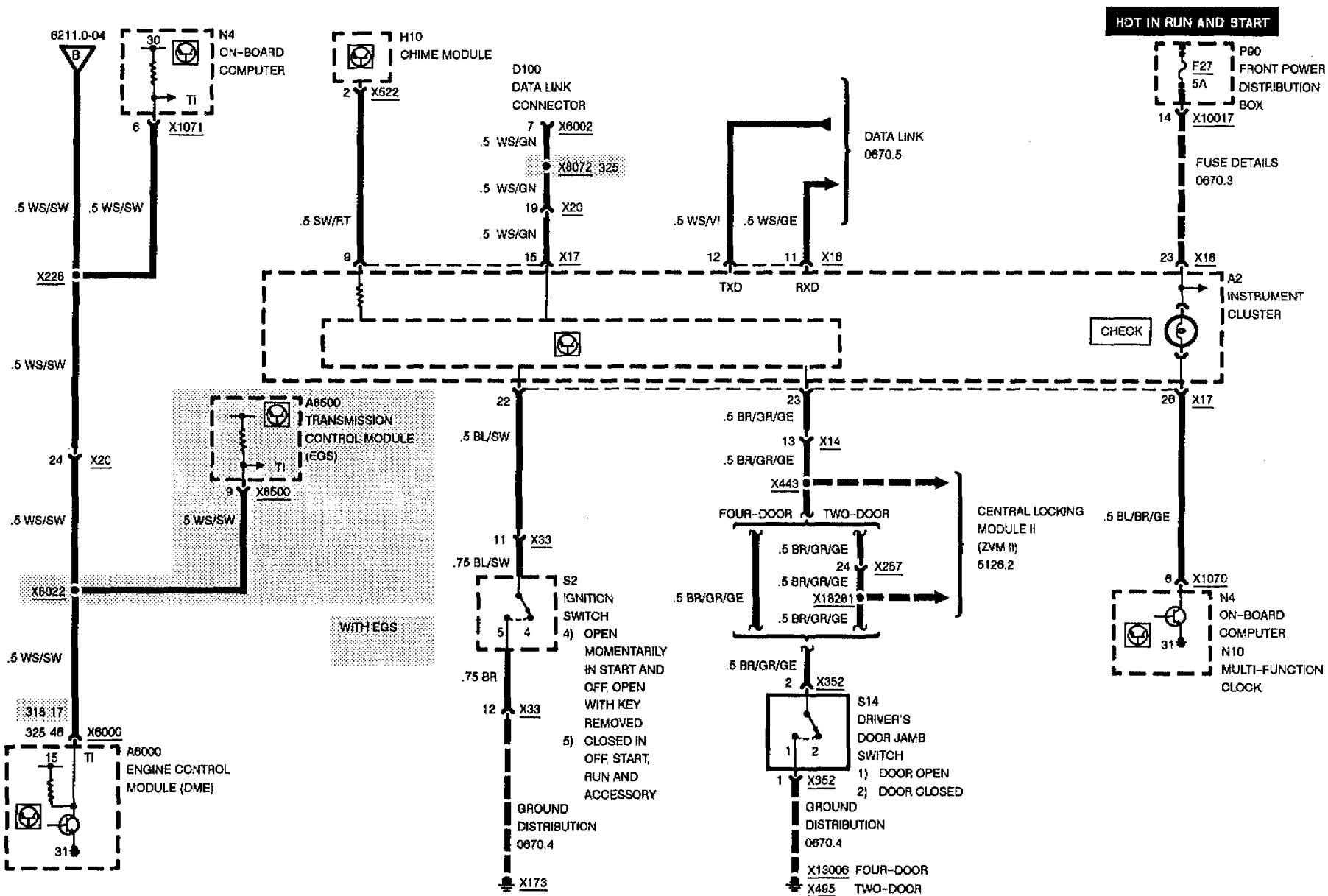
INSTRUMENT CLUSTER

INDICATORS

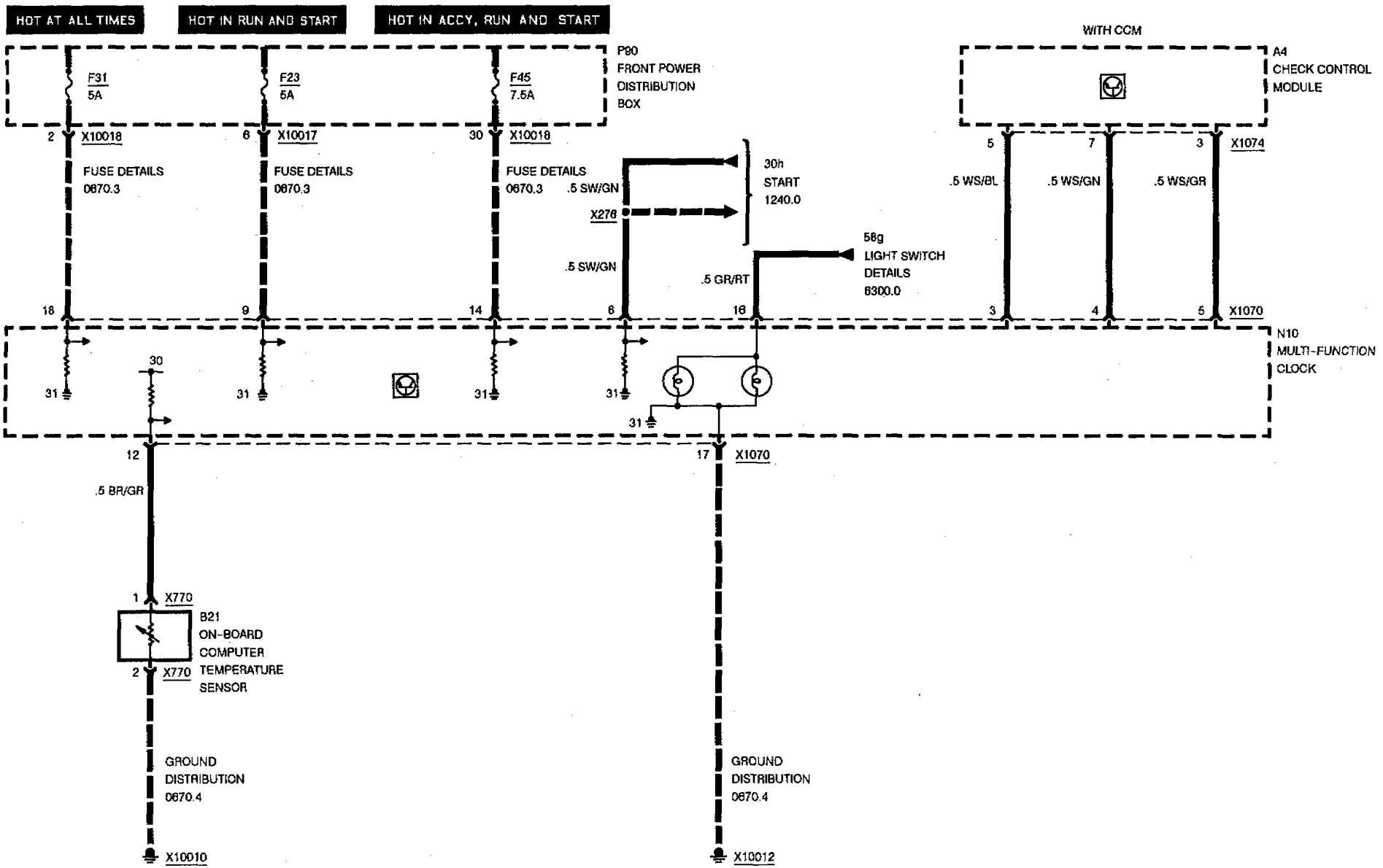


INSTRUMENT CLUSTER

INDICATORS

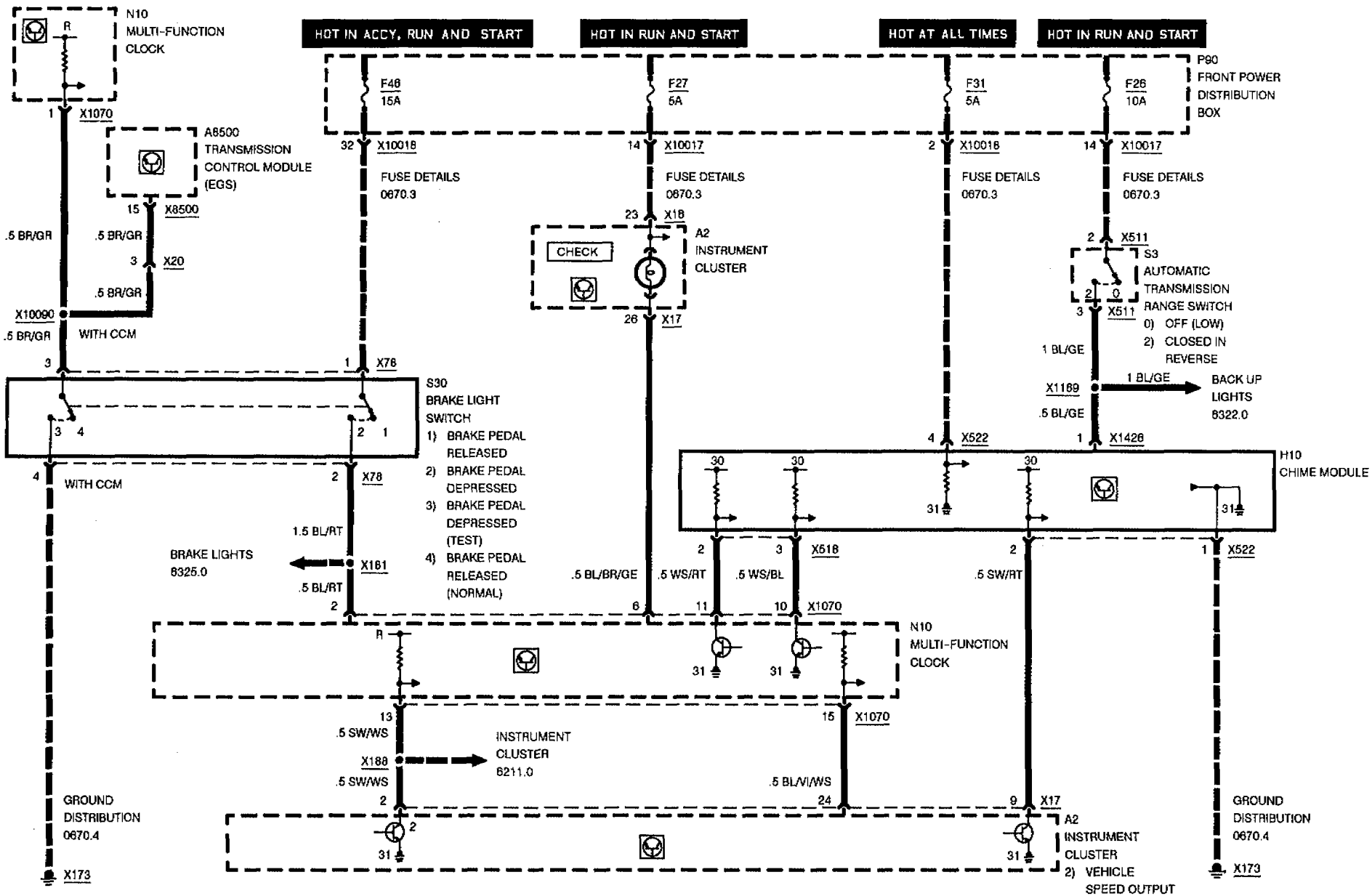


MULTI-FUNCTION CLOCK

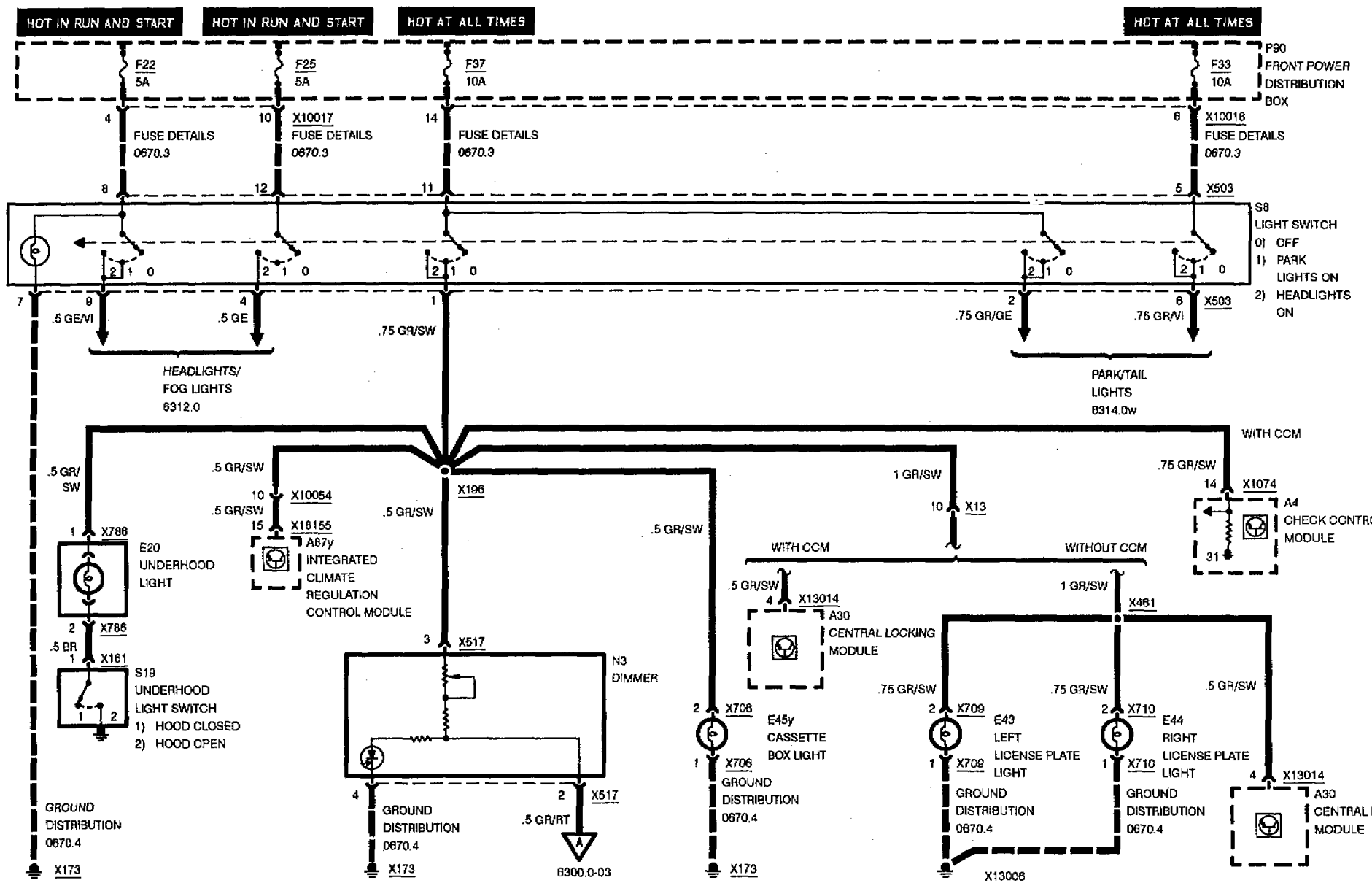


MULTI-FUNCTION CLOCK

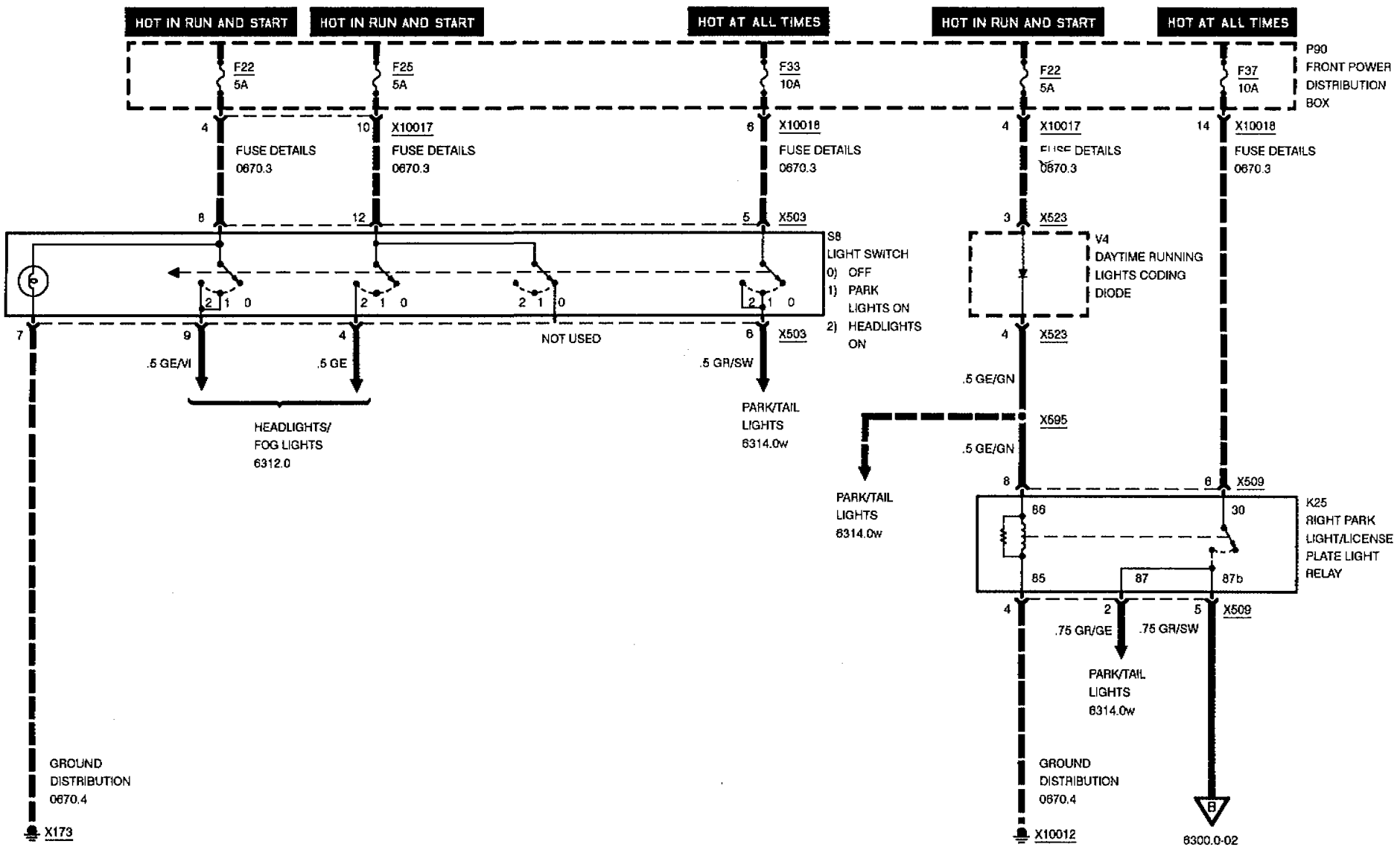
CHIME, BRAKE LIGHT SWITCH



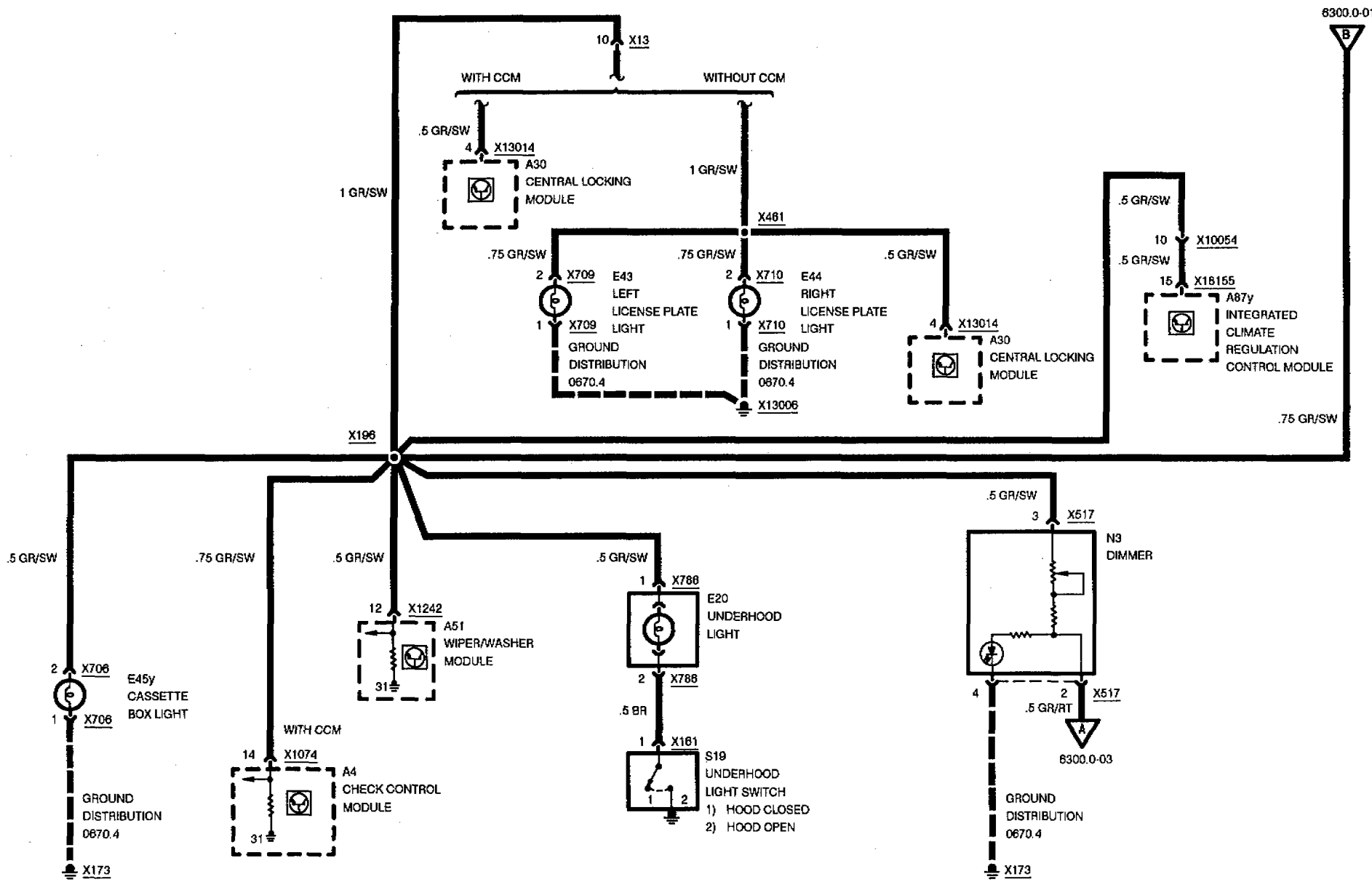
LIGHT SWITCH DETAILS



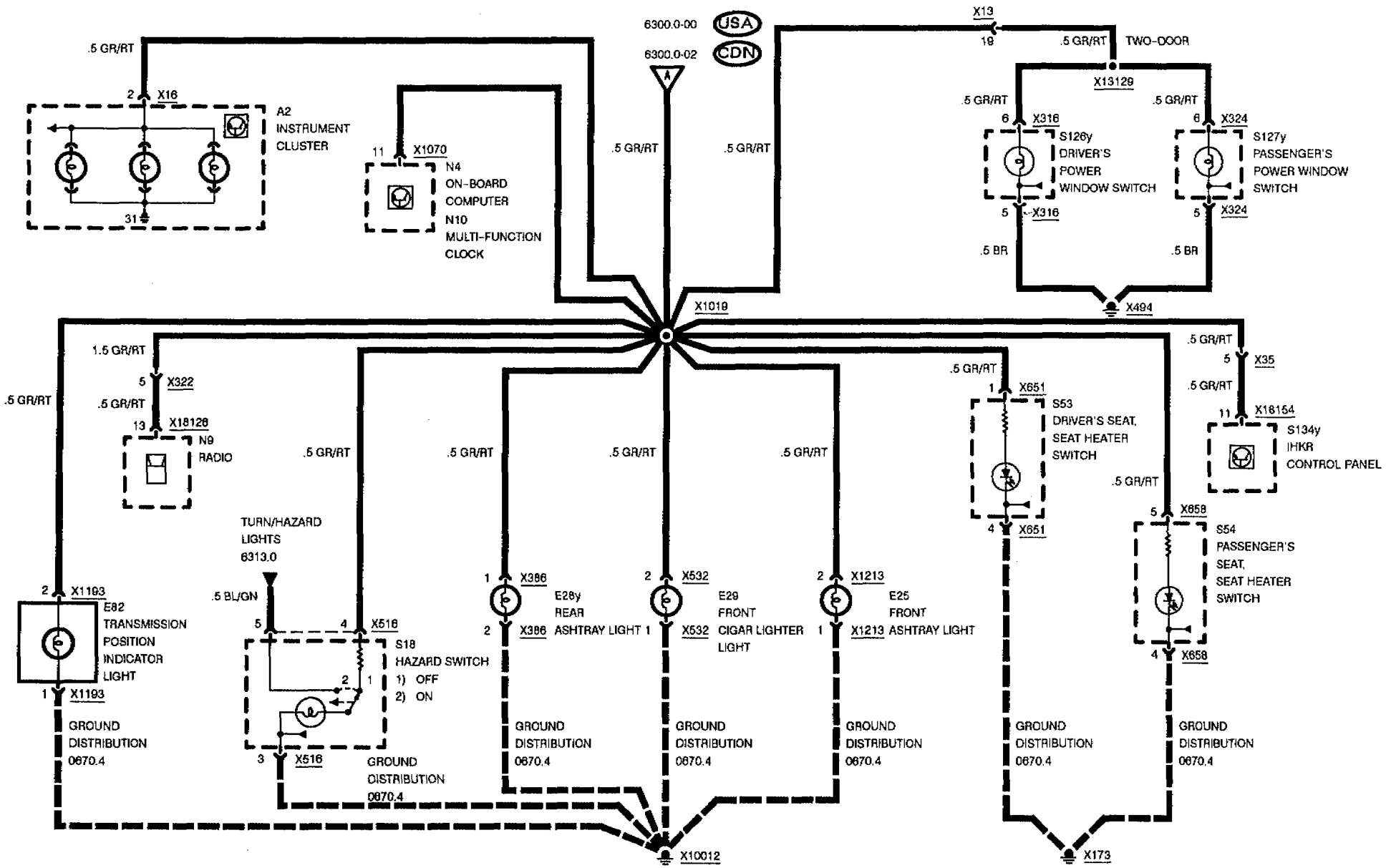
LIGHT SWITCH DETAILS



LIGHT SWITCH DETAILS

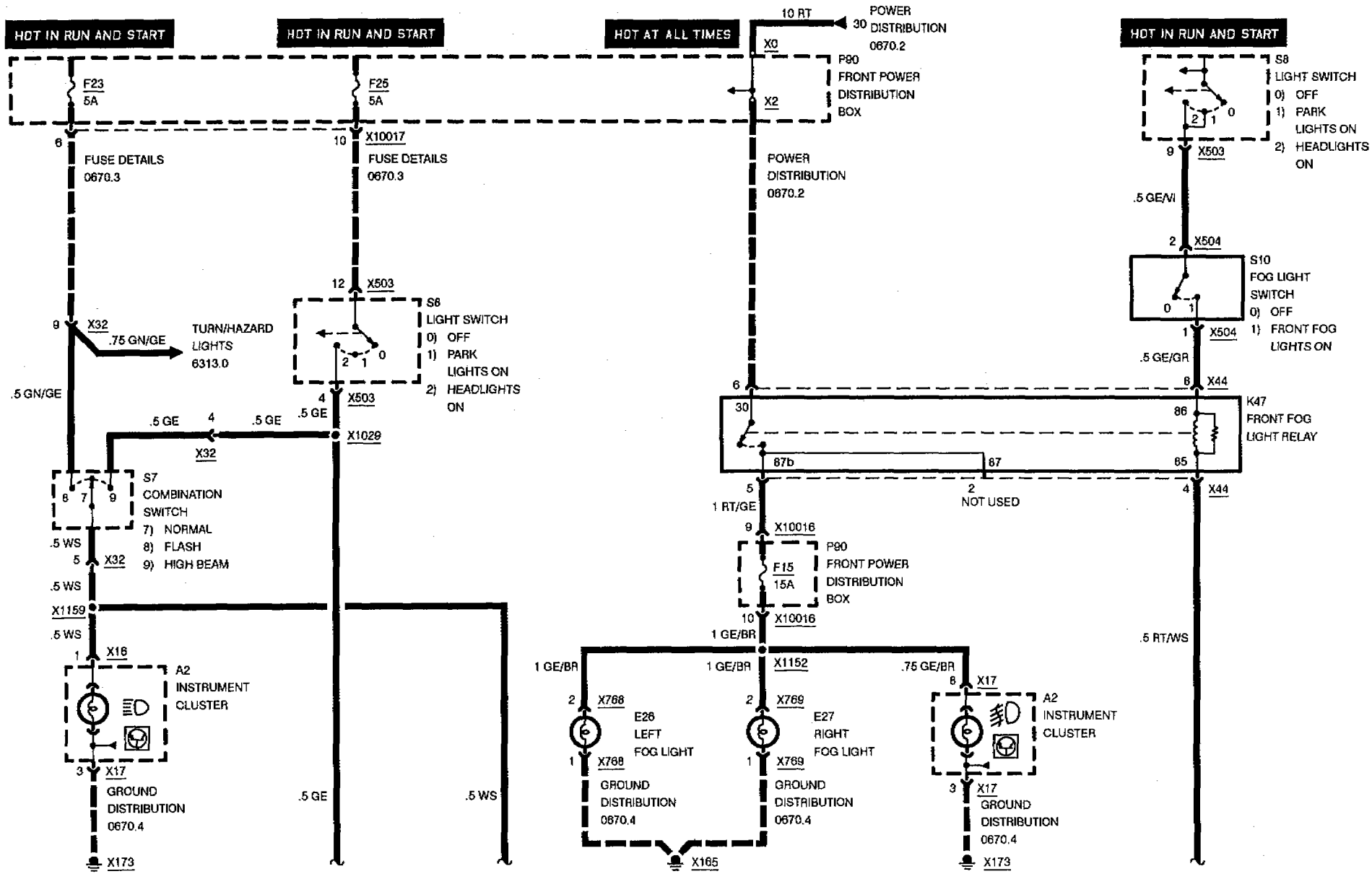


LIGHT SWITCH DETAILS

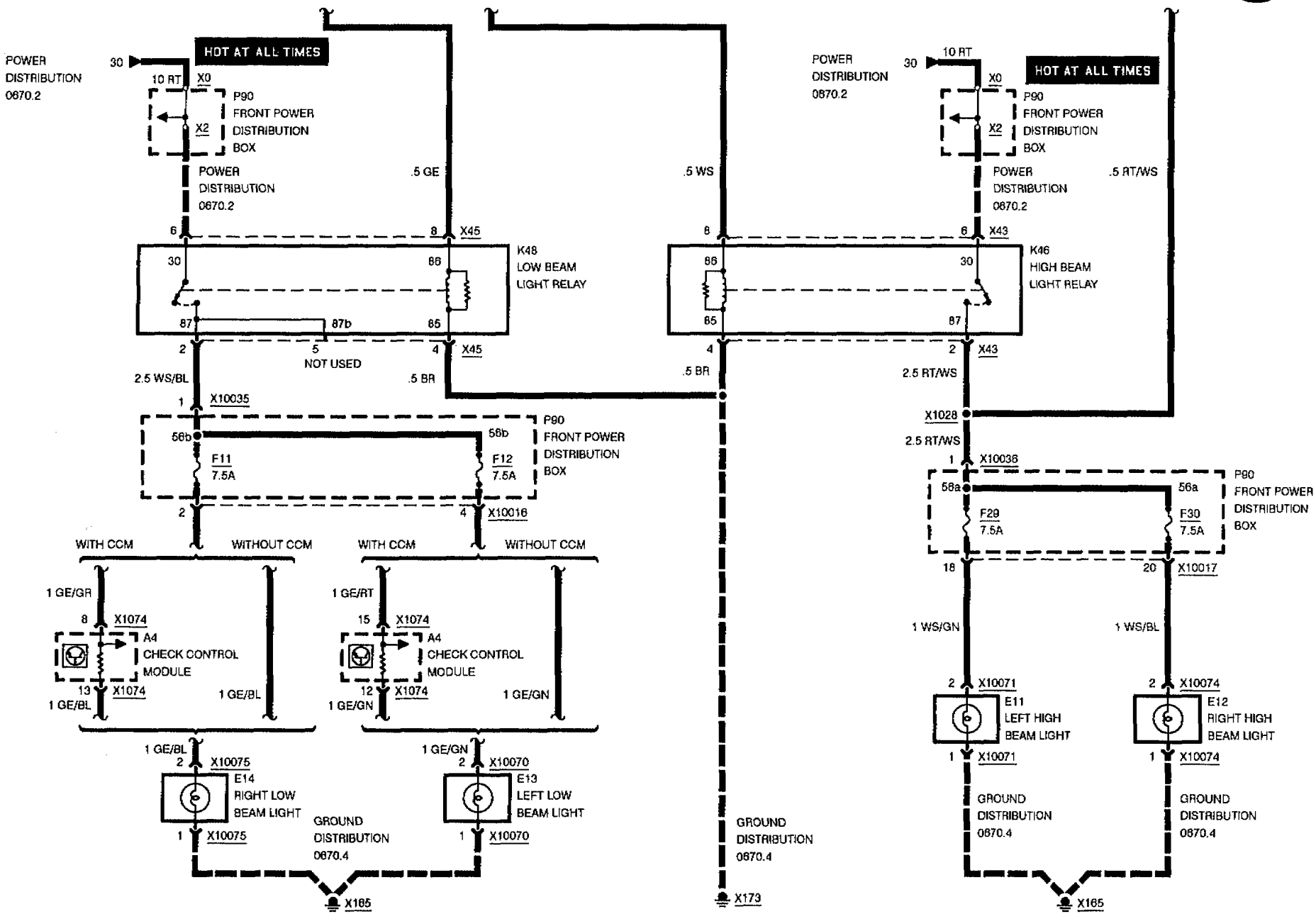


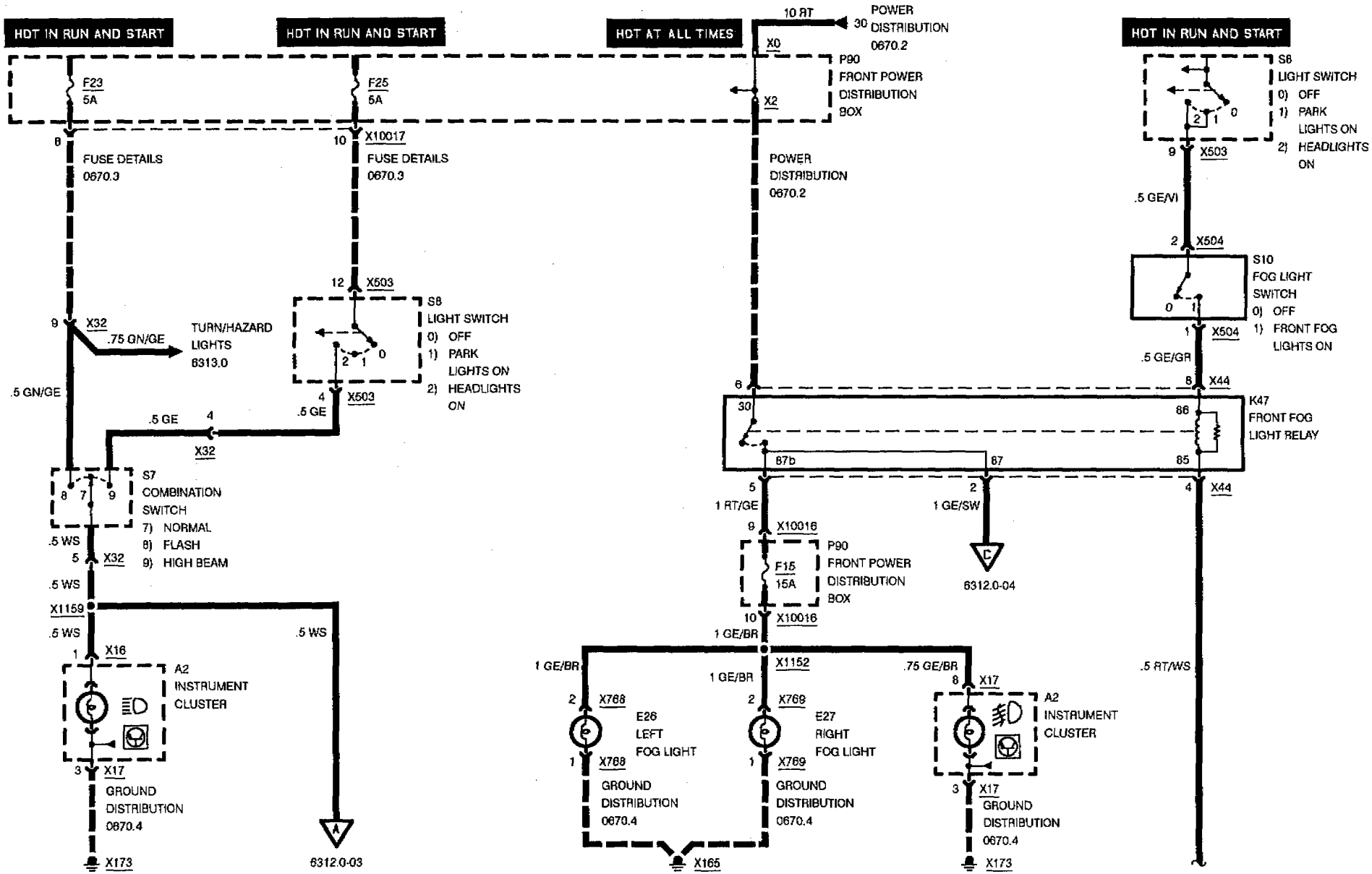
HEADLIGHTS/ FOG LIGHTS

USA

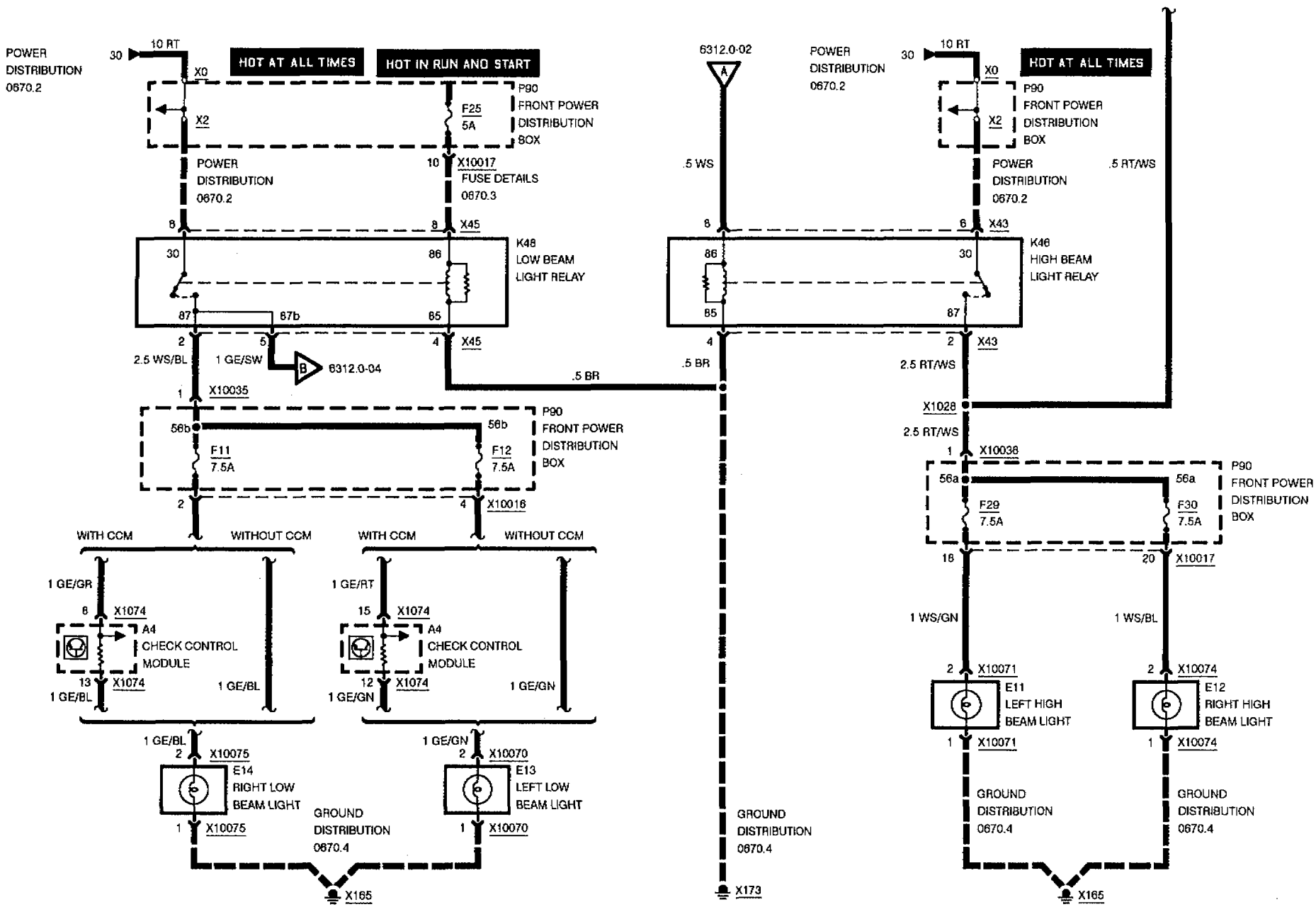


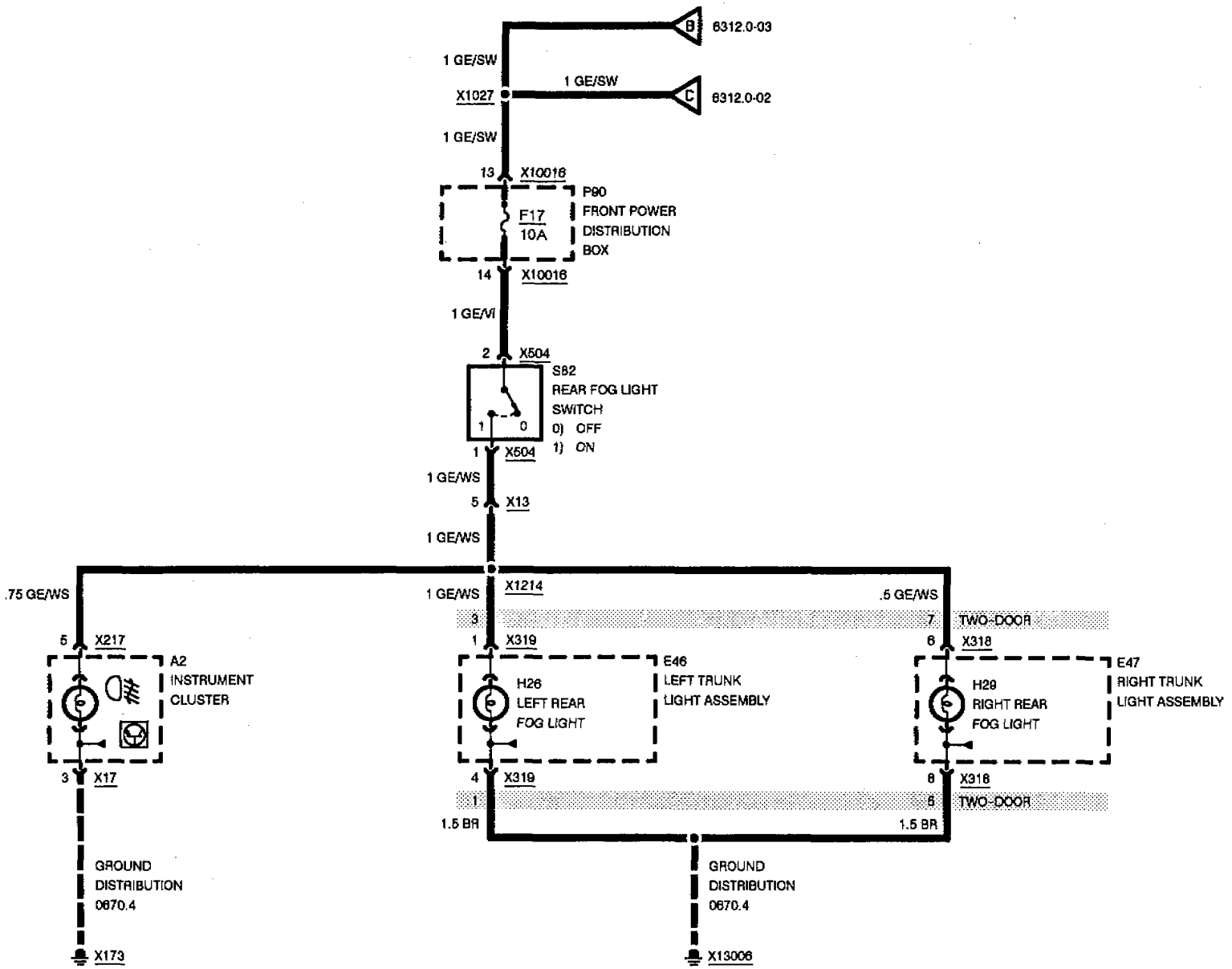
USA


POWER DISTRIBUTION 0670.2
30
HOT AT ALL TIMES
10 RT
X0
P90 FRONT POWER DISTRIBUTION BOX
X2
POWER DISTRIBUTION 0670.2
.5 GE
.5 WS
POWER DISTRIBUTION 0670.2
30
10 RT
X0
HOT AT ALL TIMES
P90 FRONT POWER DISTRIBUTION BOX
X2
POWER DISTRIBUTION 0670.2
.5 RT/WS
6
8
X45
8
6
X43
K48 LOW BEAM LIGHT RELAY
K46 HIGH BEAM LIGHT RELAY
30
86
87
87b
85
NOT USED
2
5
4
X45
4
2
X43
2.5 WS/BL
.5 BR
.5 BR
2.5 RT/WS
1
X10035
X1028
2.5 RT/WS
1
X10036
P90 FRONT POWER DISTRIBUTION BOX
56b
F11 7.5A
F12 7.5A
56a
F29 7.5A
F30 7.5A
2
4
X10016
18
20
X10017
WITH CCM
WITHOUT CCM
1 GE/GR
1 GE/RT
1 WS/GN
1 WS/BL
8
X1074
15
X1074
A4 CHECK CONTROL MODULE
13
X1074
12
X1074
1 GE/BL
1 GE/GN
1 GE/BL
1 GE/GN
2
X10071
2
X10074
E11 LEFT HIGH BEAM LIGHT
E12 RIGHT HIGH BEAM LIGHT
1
X10071
1
X10074
1 GE/BL
1 GE/GN
2
X10075
2
X10070
E14 RIGHT LOW BEAM LIGHT
E13 LEFT LOW BEAM LIGHT
1
X10075
1
X10070
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X165
X173
X165

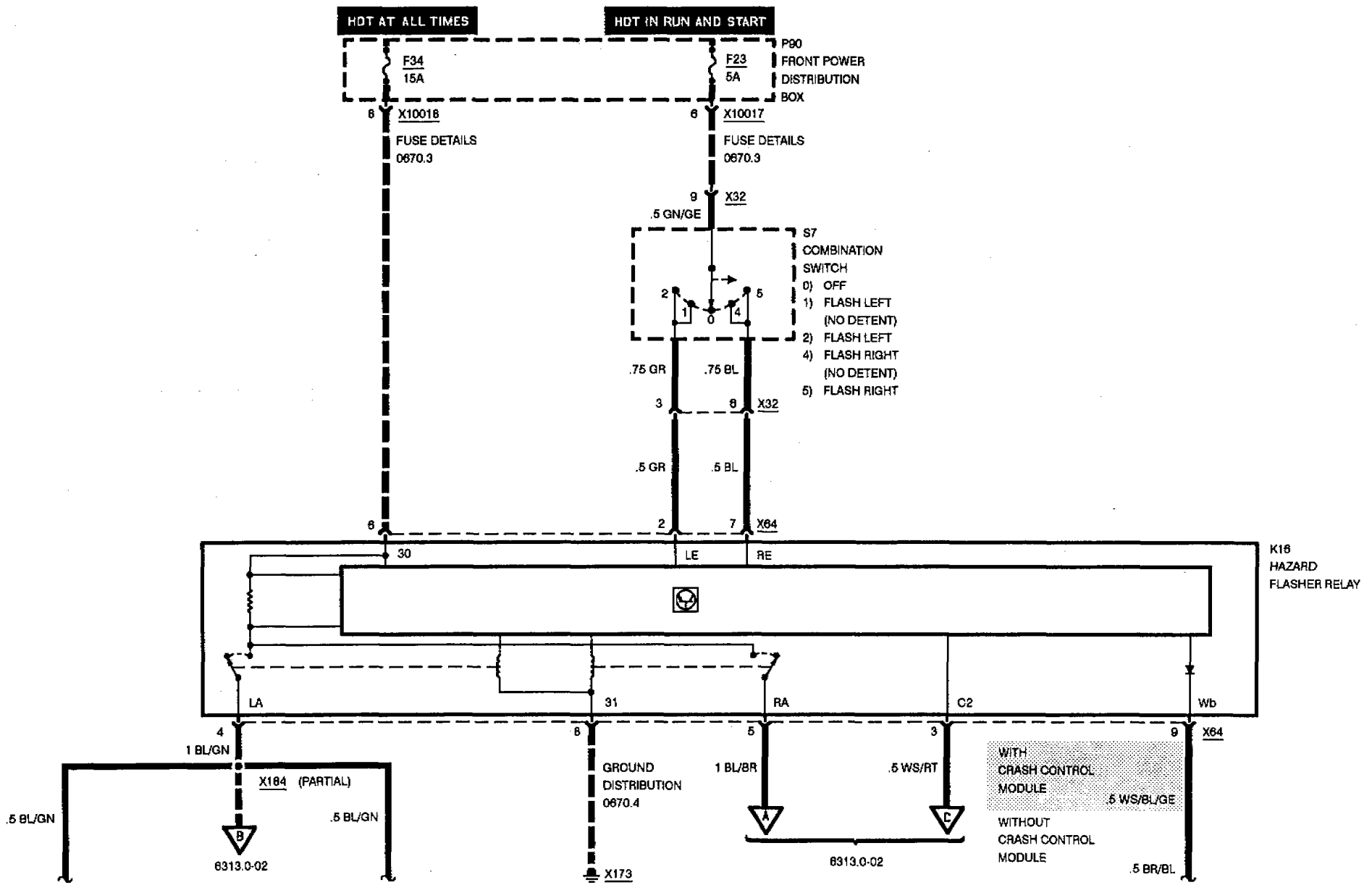

HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
HOT IN RUN AND START
10 RT
30
POWER DISTRIBUTION 0670.2
X0
P90 FRONT POWER DISTRIBUTION BOX
X2
F23 5A
F25 5A
8
FUSE DETAILS 0670.3
10
X10017
FUSE DETAILS 0670.3
POWER DISTRIBUTION 0670.2
S6 LIGHT SWITCH 0) OFF 1) PARK LIGHTS ON 2) HEADLIGHTS ON
9
X503
.5 GE/VI
2
X504
S10 FOG LIGHT SWITCH 0) OFF 1) FRONT FOG LIGHTS ON
1
X504
.5 GE/GR
8
X44
12
X503
9
X32
.75 GN/GE
TURN/HAZARD LIGHTS 6313.0
S6 LIGHT SWITCH 0) OFF 1) PARK LIGHTS ON 2) HEADLIGHTS ON
.5 GN/GE
4
X503
.5 GE
.5 GE
4
X32
6
30
86
K47 FRONT FOG LIGHT RELAY
87b
87
85
S7 COMBINATION SWITCH 7) NORMAL 8) FLASH 9) HIGH BEAM
8 7 9
.5 WS
5
X32
5
1 RT/GE
2
1 GE/SW
4
X44
9
X10016
P90 FRONT POWER DISTRIBUTION BOX
F15 15A
C
6312.0-04
10
X10016
1 GE/BR
.5 WS
X1159
.5 WS
.5 WS
1 GE/BR
X1152
1 GE/BR
.75 GE/BR
.5 RT/WS
1
X16
A2 INSTRUMENT CLUSTER
2
X768
E26 LEFT FOG LIGHT
2
X769
E27 RIGHT FOG LIGHT
8
X17
A2 INSTRUMENT CLUSTER
3
X17
GROUND DISTRIBUTION 0670.4
1
X768
GROUND DISTRIBUTION 0670.4
1
X769
GROUND DISTRIBUTION 0670.4
3
X17
GROUND DISTRIBUTION 0670.4
X173
A
6312.0-03
X165
X173

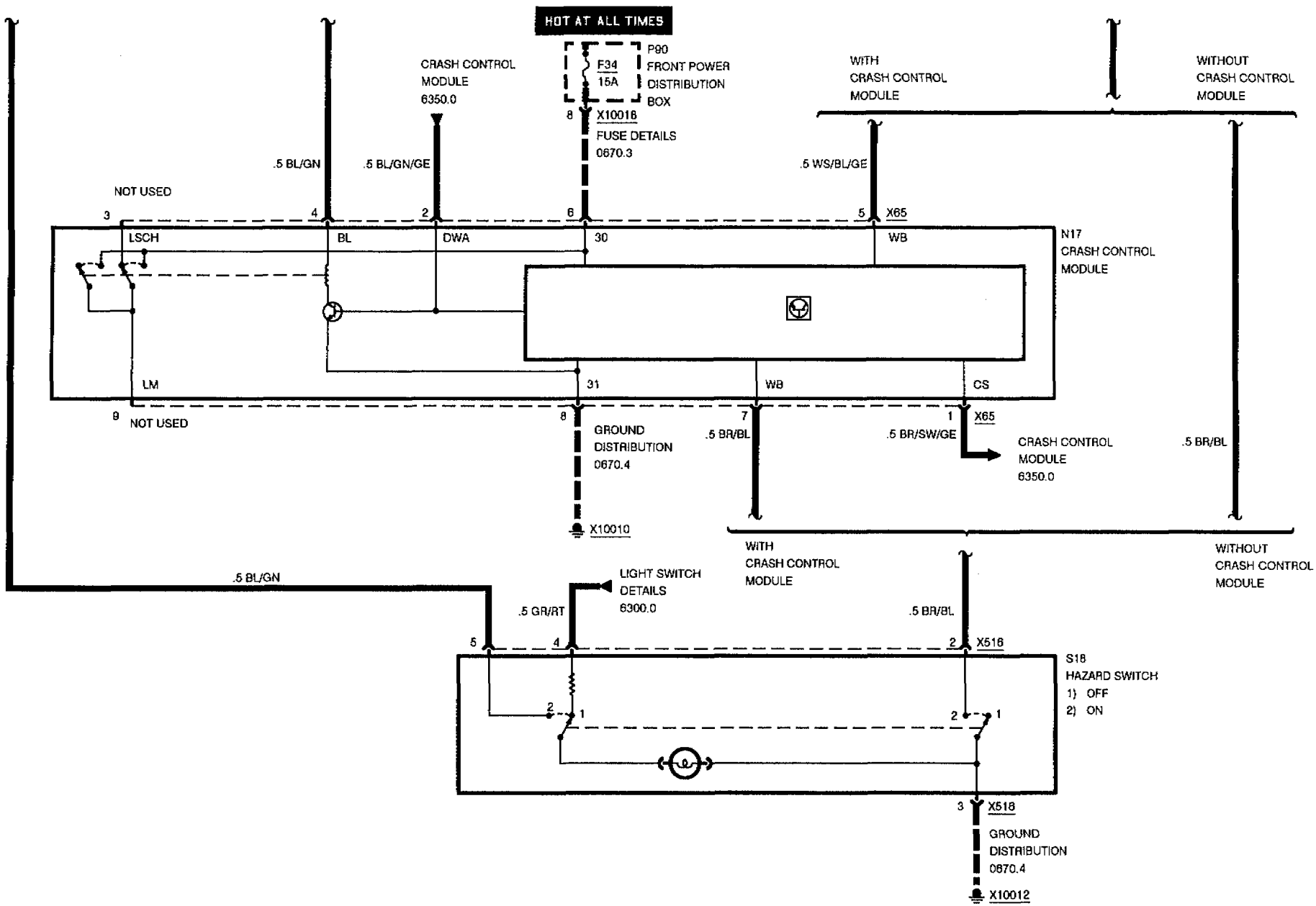
CDN


POWER DISTRIBUTION 0670.2
30
10 RT
X0
HOT AT ALL TIMES
HOT IN RUN AND START
X2
F25 5A
P90 FRONT POWER DISTRIBUTION BOX
POWER DISTRIBUTION 0670.2
10
X10017
FUSE DETAILS 0670.3
8
X45
K48 LOW BEAM LIGHT RELAY
30
86
87
87b
85
2
2.5 WS/BL
5
1 GE/SW
B
6312.0-04
4
X45
.5 BR
1
X10035
56b
F11 7.5A
F12 7.5A
2
4
X10016
WITH CCM
WITHOUT CCM
1 GE/GR
6
X1074
A4 CHECK CONTROL MODULE
13
X1074
1 GE/BL
1 GE/BL
1 GE/BL
2
X10075
E14 RIGHT LOW BEAM LIGHT
1
X10075
GROUND DISTRIBUTION 0670.4
X165
1 GE/RT
15
X1074
12
X1074
1 GE/GN
1 GE/GN
1 GE/GN
2
X10070
E13 LEFT LOW BEAM LIGHT
1
X10070
6312.0-02
A
.5 WS
8
86
85
4
.5 BR
GROUND DISTRIBUTION 0670.4
X173
POWER DISTRIBUTION 0670.2
30
10 RT
X0
HOT AT ALL TIMES
X2
P90 FRONT POWER DISTRIBUTION BOX
POWER DISTRIBUTION 0670.2
.5 RT/WS
8
6
X43
K46 HIGH BEAM LIGHT RELAY
86
30
85
87
4
2
X43
2.5 RT/WS
X1028
2.5 RT/WS
1
X10036
56a
F29 7.5A
F30 7.5A
P90 FRONT POWER DISTRIBUTION BOX
18
20
X10017
1 WS/GN
1 WS/BL
2
X10071
E11 LEFT HIGH BEAM LIGHT
1
X10071
2
X10074
E12 RIGHT HIGH BEAM LIGHT
1
X10074
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X165

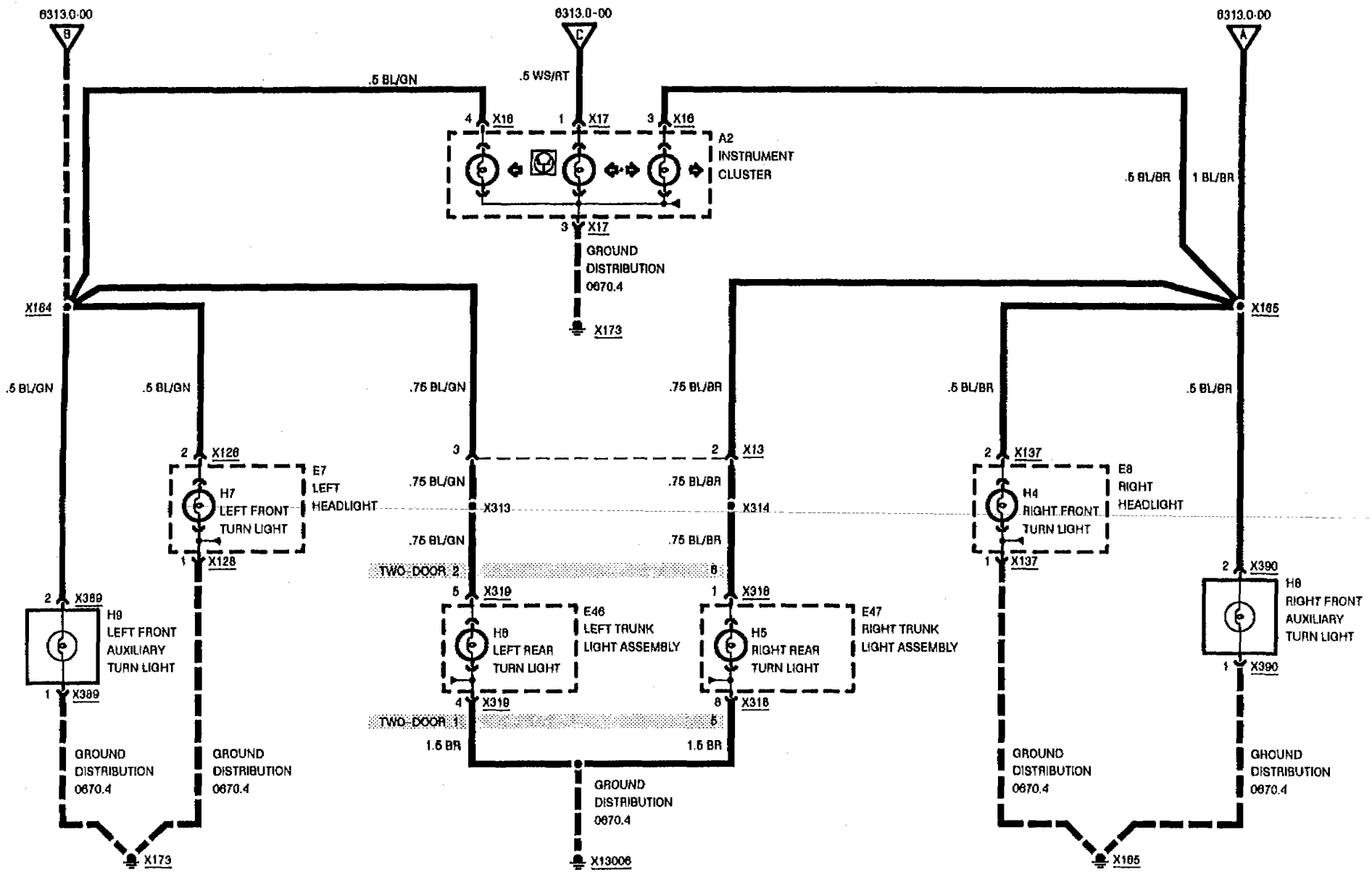

B 6312.0-03
1 GE/SW
1 GE/SW
X1027
C 6312.0-02
1 GE/SW
13 X10016
P80
F17
10A
FRONT POWER
DISTRIBUTION
BOX
14 X10016
1 GE/VI
2 X504
S82
REAR FOG LIGHT
SWITCH
1 0
0) OFF
1) ON
1 X504
1 GE/WS
5 X13
1 GE/WS
.75 GE/WS
1 GE/WS
X1214
.5 GE/WS
3
7 TWO-DOOR
5 X217
1 X319
6 X318
A2
INSTRUMENT
CLUSTER
H26
LEFT REAR
FOG LIGHT
E46
LEFT TRUNK
LIGHT ASSEMBLY
H29
RIGHT REAR
FOG LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
3 X17
4 X319
8 X318
1
6 TWO-DOOR
1.5 BR
1.5 BR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X173
X13006

TURN/HAZARD LIGHTS

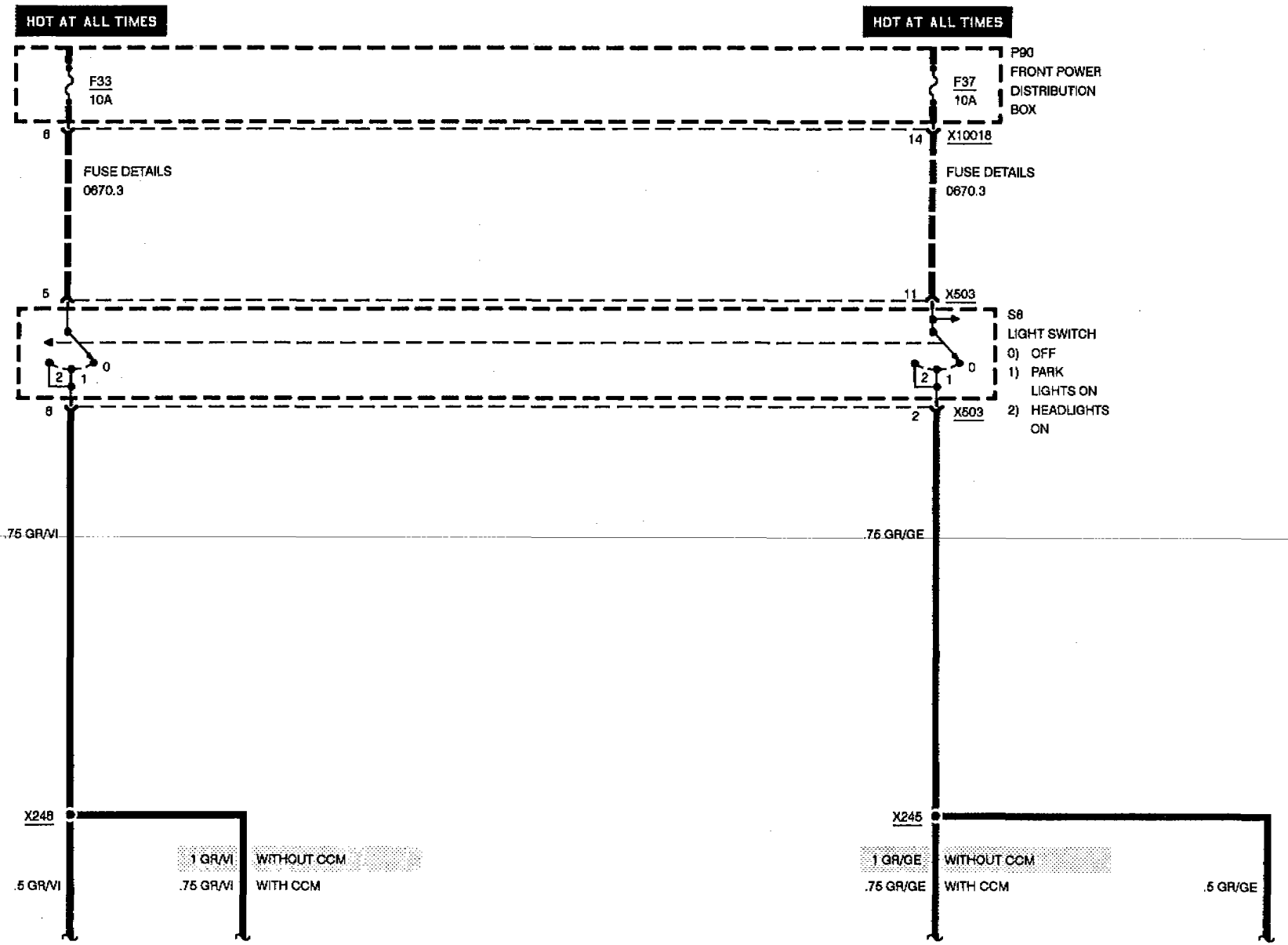



HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F34
15A
8
X10018
FUSE DETAILS
0670.3
CRASH CONTROL
MODULE
6350.0
WITH
CRASH CONTROL
MODULE
WITHOUT
CRASH CONTROL
MODULE
.5 BL/GN
.5 BL/GN/GE
.5 WS/BL/GE
NOT USED
3
4
2
6
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
GROUND
DISTRIBUTION
0670.4
.5 BR/BL
.5 BR/SW/GE
CRASH CONTROL
MODULE
6350.0
.5 BR/BL
X10010
WITH
CRASH CONTROL
MODULE
WITHOUT
CRASH CONTROL
MODULE
.5 BL/GN
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
.5 BR/BL
5
4
2
X516
S18
HAZARD SWITCH
1) OFF
2) ON
2
1
2
1
3
X518
GROUND
DISTRIBUTION
0670.4
X10012

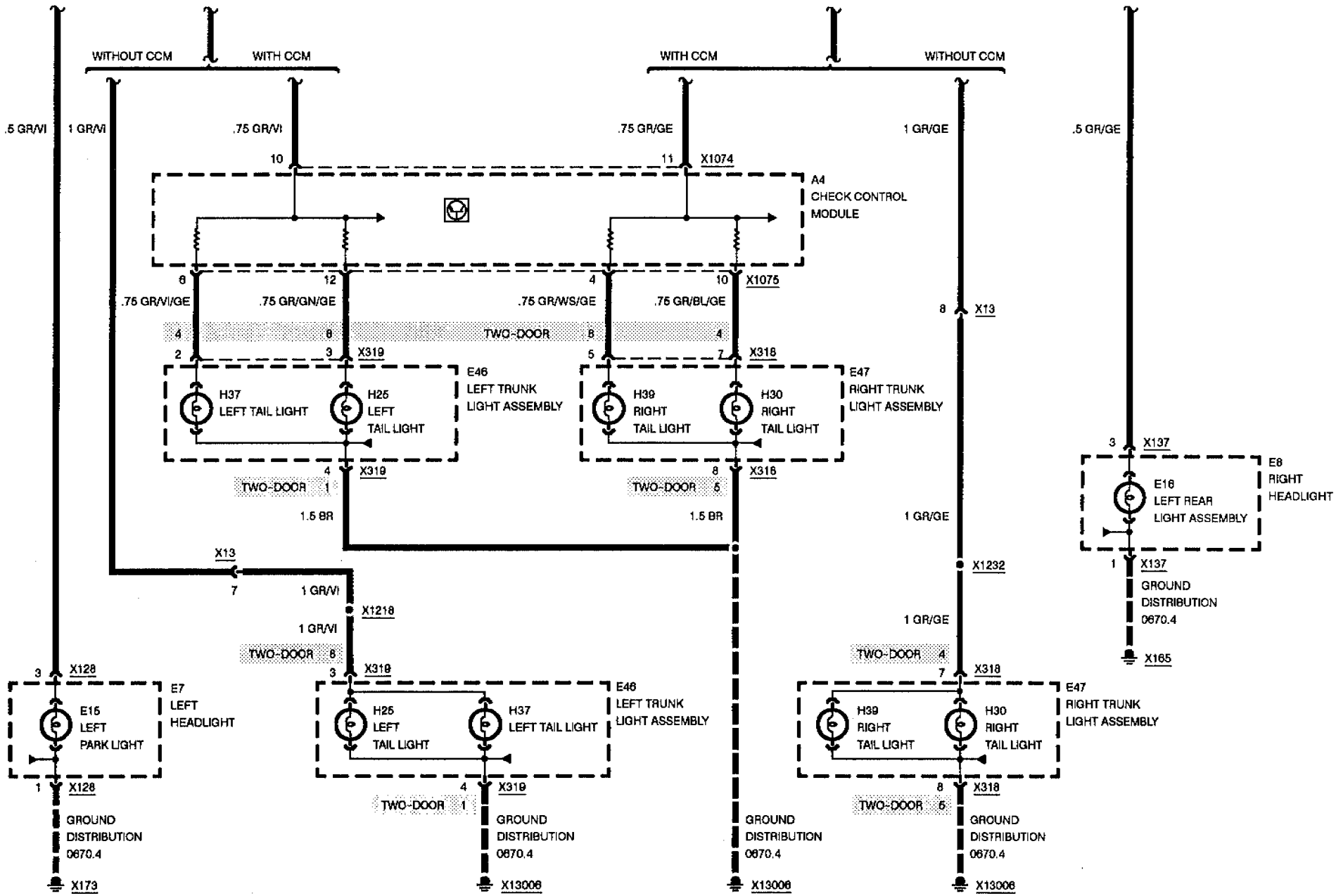
TURN/HAZARD LIGHTS



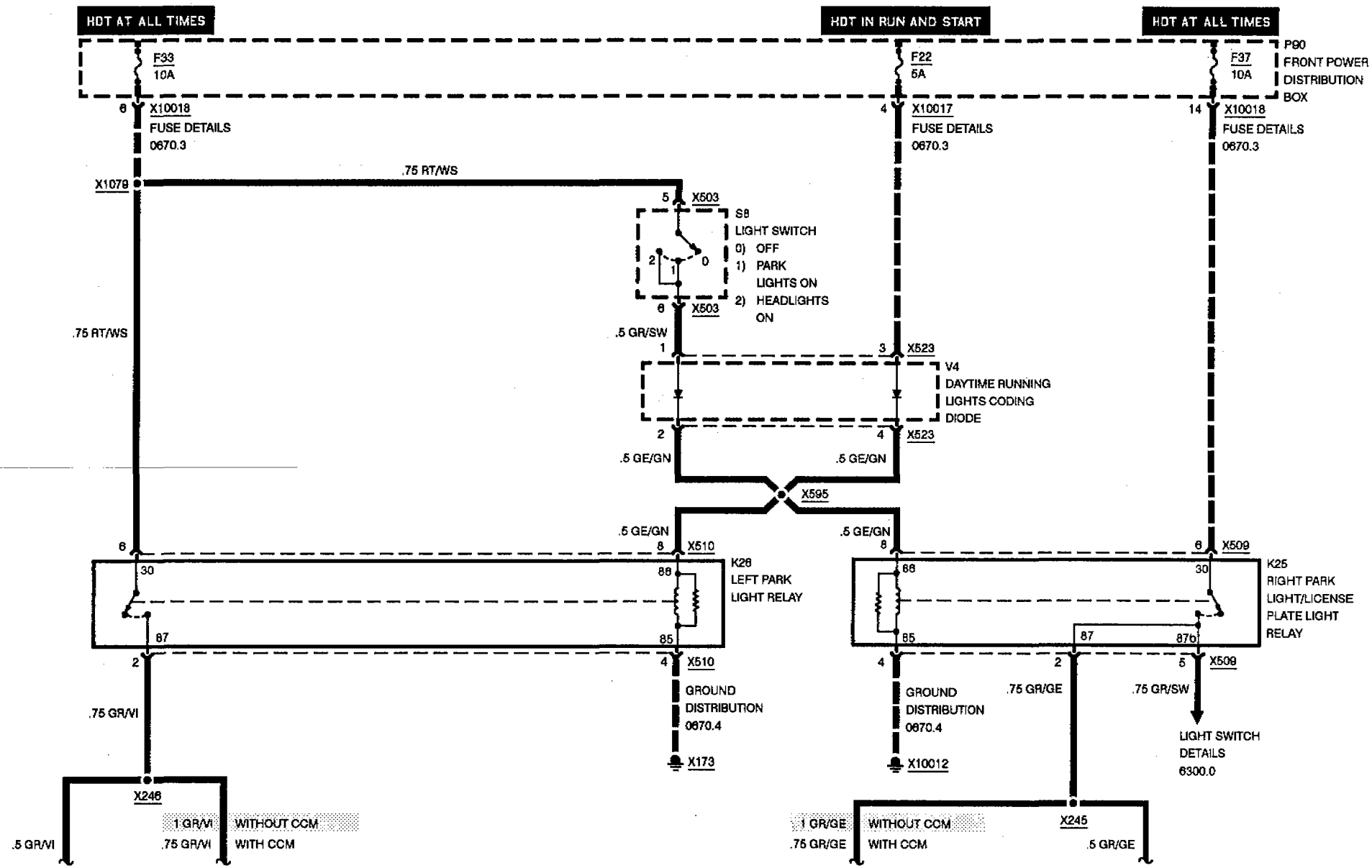
PARK/TAIL LIGHTS



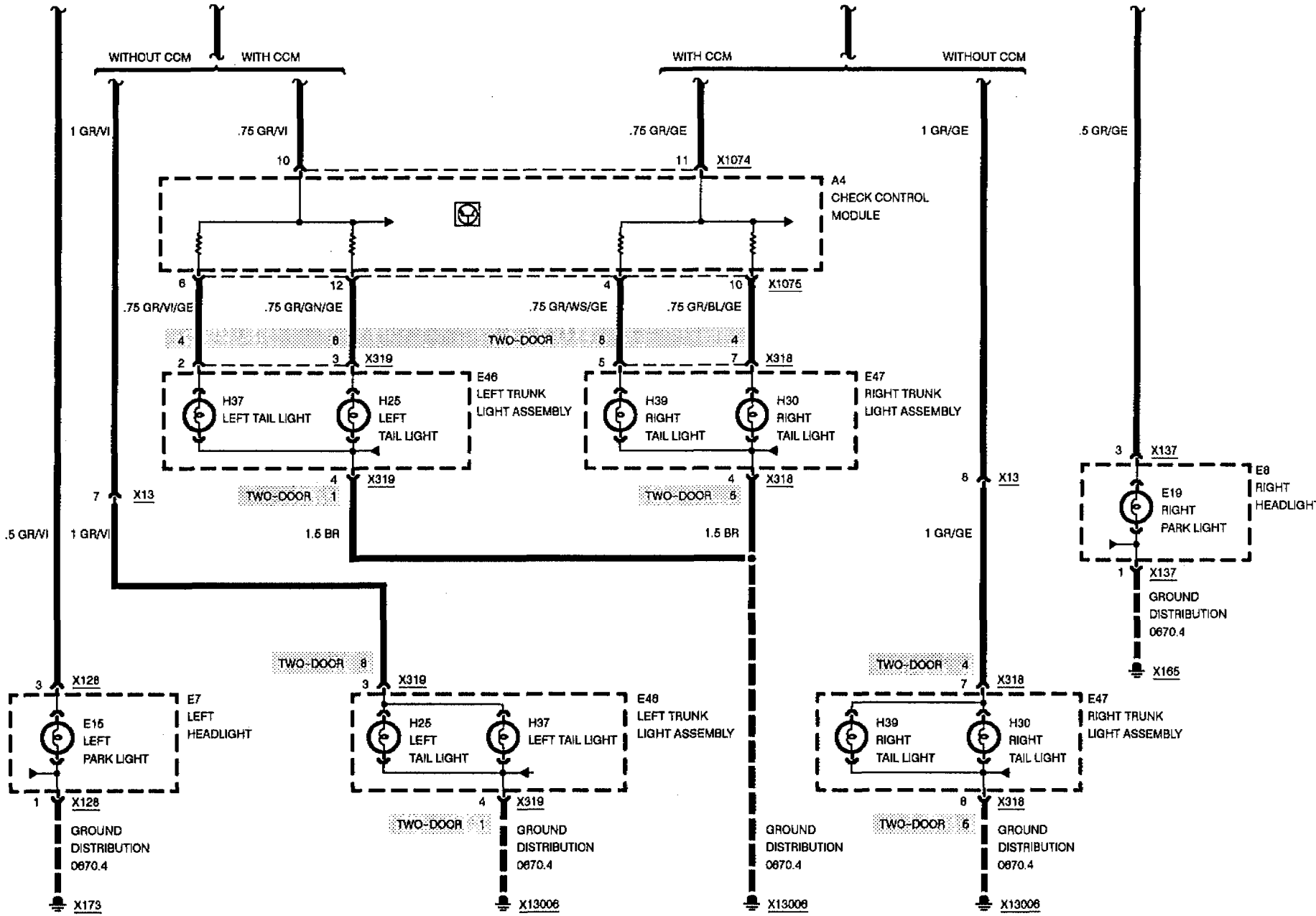
USA


WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.5 GR/VI
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
.5 GR/GE
10
11
X1074
A4
CHECK CONTROL
MODULE
6
12
4
10
X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
8
X13
4
8
TWO-DOOR
8
4
2
3
X319
5
7
X318
E46
LEFT TRUNK
LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT
TAIL LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
4
X319
TWO-DOOR
1
8
X318
TWO-DOOR
5
1.5 BR
1.5 BR
1 GR/GE
3
X137
E8
RIGHT
HEADLIGHT
E16
LEFT REAR
LIGHT ASSEMBLY
1
X137
GROUND
DISTRIBUTION
0670.4
X165
X13
7
1 GR/VI
X1232
1 GR/VI
1 GR/GE
X1218
TWO-DOOR
6
TWO-DOOR
4
3
X128
3
X319
7
X318
E7
LEFT
HEADLIGHT
E15
LEFT
PARK LIGHT
E46
LEFT TRUNK
LIGHT ASSEMBLY
H25
LEFT
TAIL LIGHT
H37
LEFT TAIL LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
1
X128
4
X319
8
X318
TWO-DOOR
1
TWO-DOOR
5
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X173
X13006
X13006
X13006

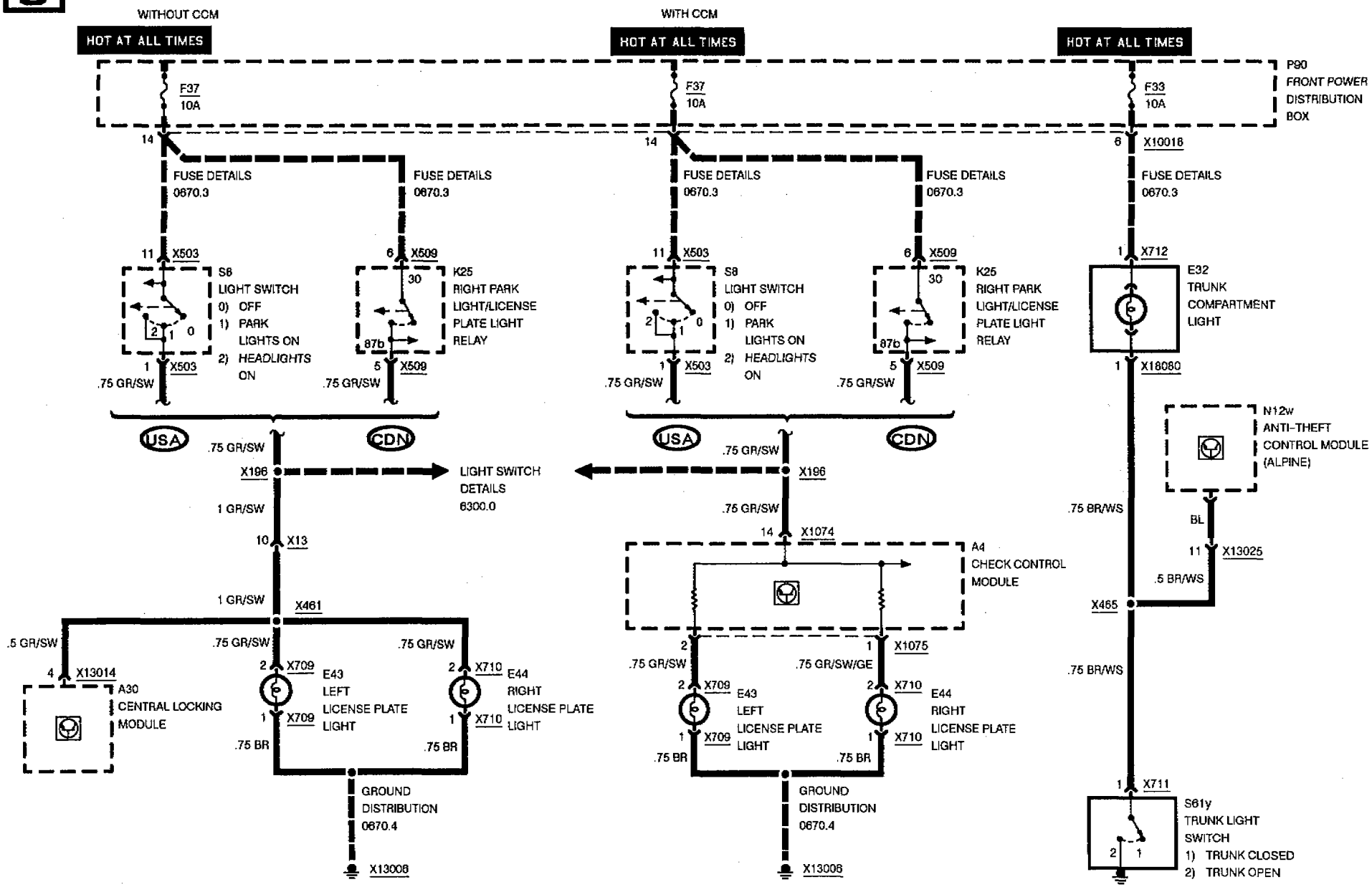
PARK/TAIL LIGHTS



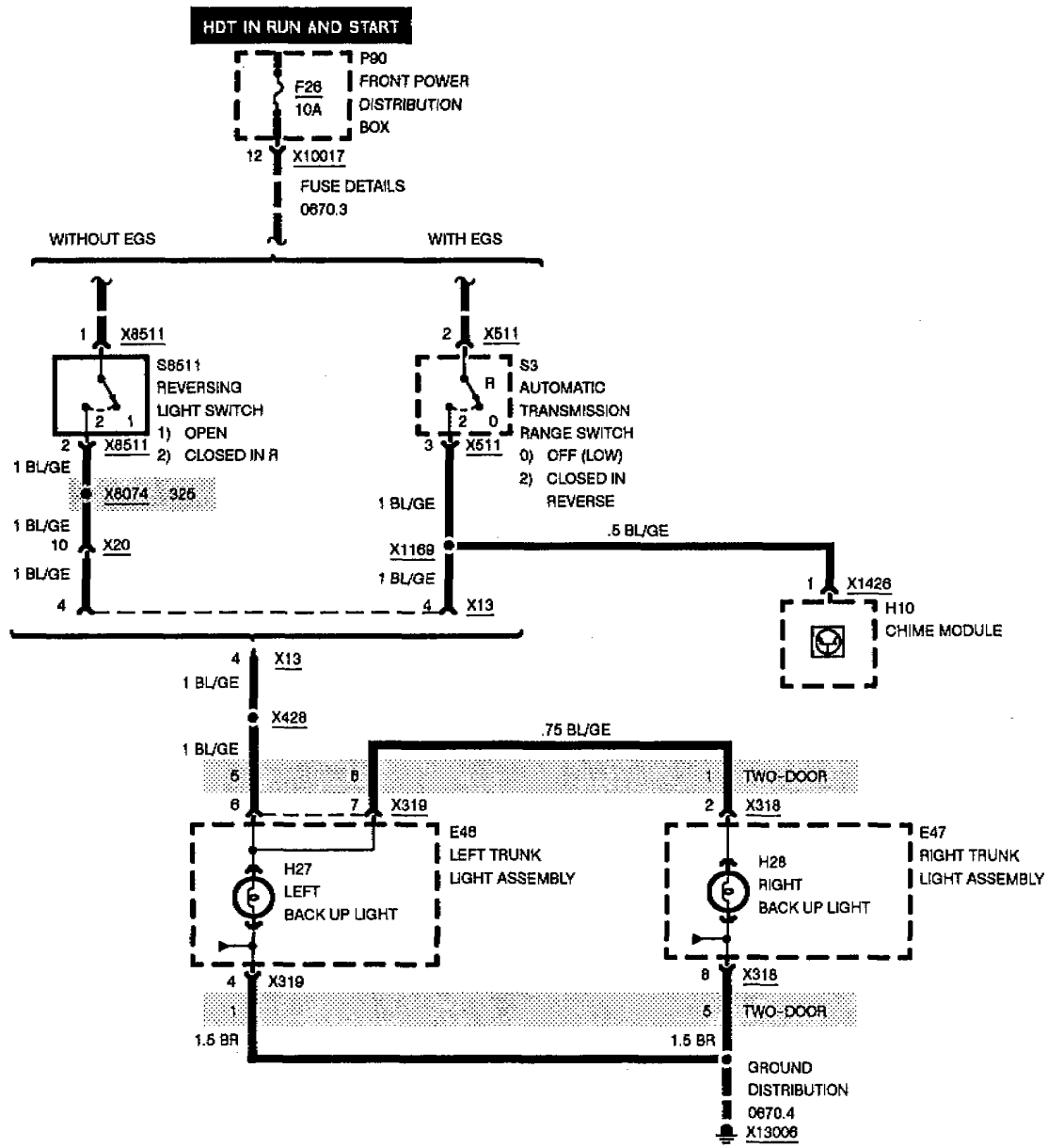
CDN


WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
.5 GR/GE
10
11
X1074
A4
CHECK CONTROL MODULE
6
12
4
10
X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
TWO-DOOR
2
3
X319
5
7
X318
E46
LEFT TRUNK LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT
TAIL LIGHT
E47
RIGHT TRUNK LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
4
X319
TWO-DOOR 1
4
X318
TWO-DOOR 5
7
X13
8
X13
3
X137
E8
RIGHT
HEADLIGHT
E19
RIGHT
PARK LIGHT
1
X137
GROUND
DISTRIBUTION
0670.4
X165
.5 GR/VI
1 GR/VI
1.5 BR
1.5 BR
1 GR/GE
TWO-DOOR 8
TWO-DOOR 4
3
X128
3
X319
7
X318
E7
LEFT
HEADLIGHT
E15
LEFT
PARK LIGHT
E48
LEFT TRUNK LIGHT ASSEMBLY
H25
LEFT
TAIL LIGHT
H37
LEFT TAIL LIGHT
E47
RIGHT TRUNK LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
1
X128
4
X319
8
X318
GROUND
DISTRIBUTION
0670.4
TWO-DOOR 1
TWO-DOOR 5
X173
X13006
X13006
X13006

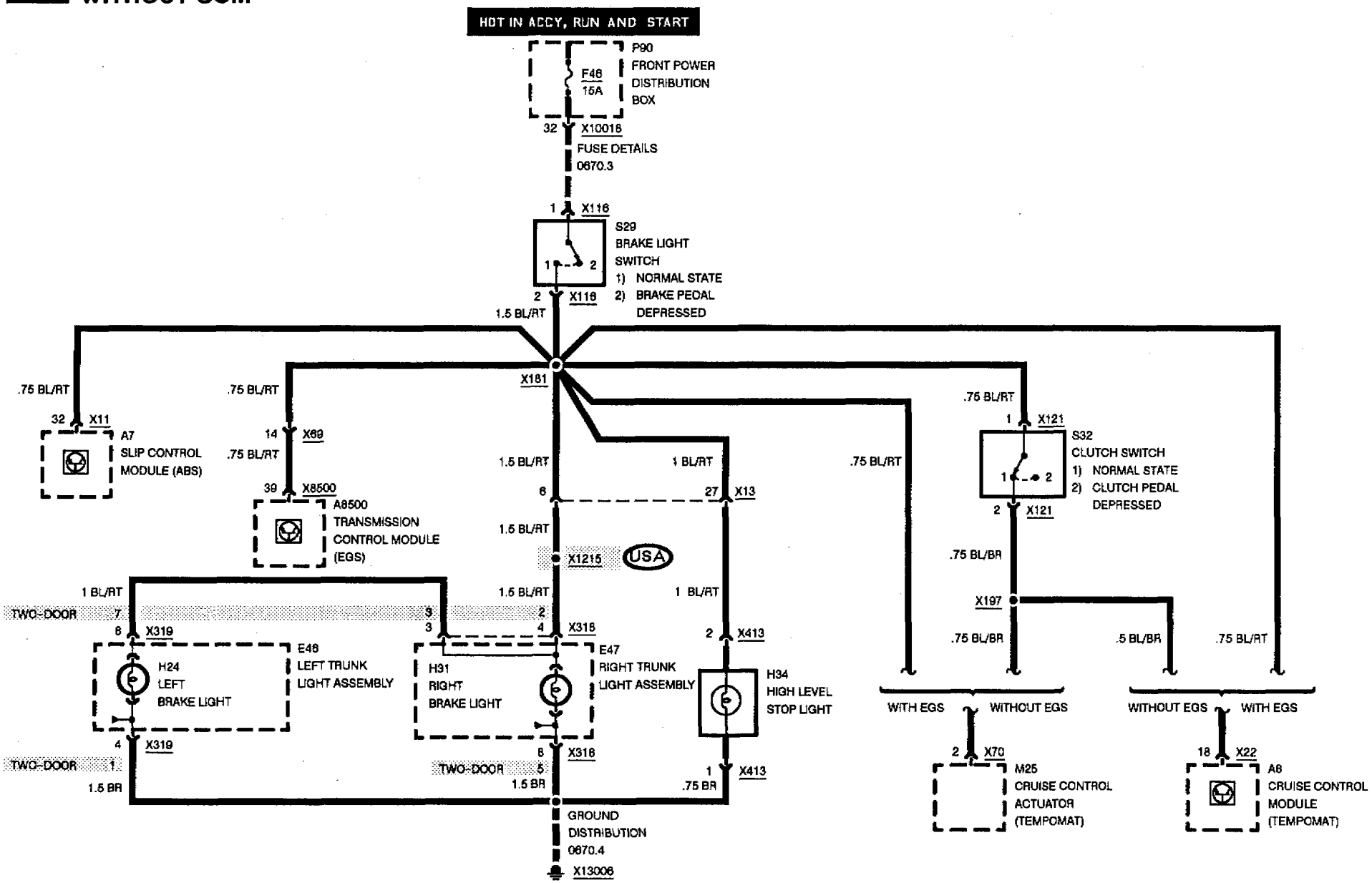
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS



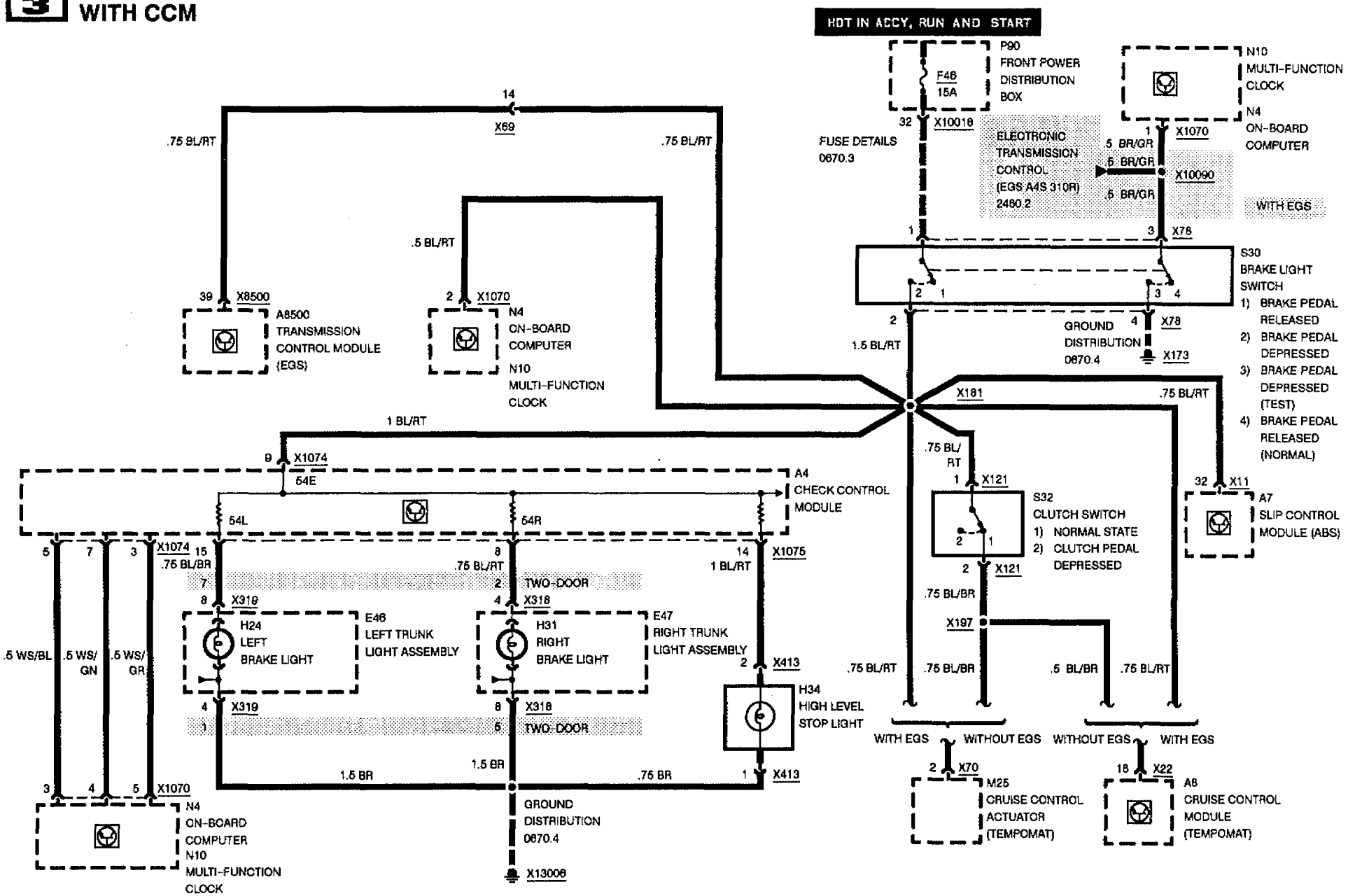
BACK UP LIGHTS



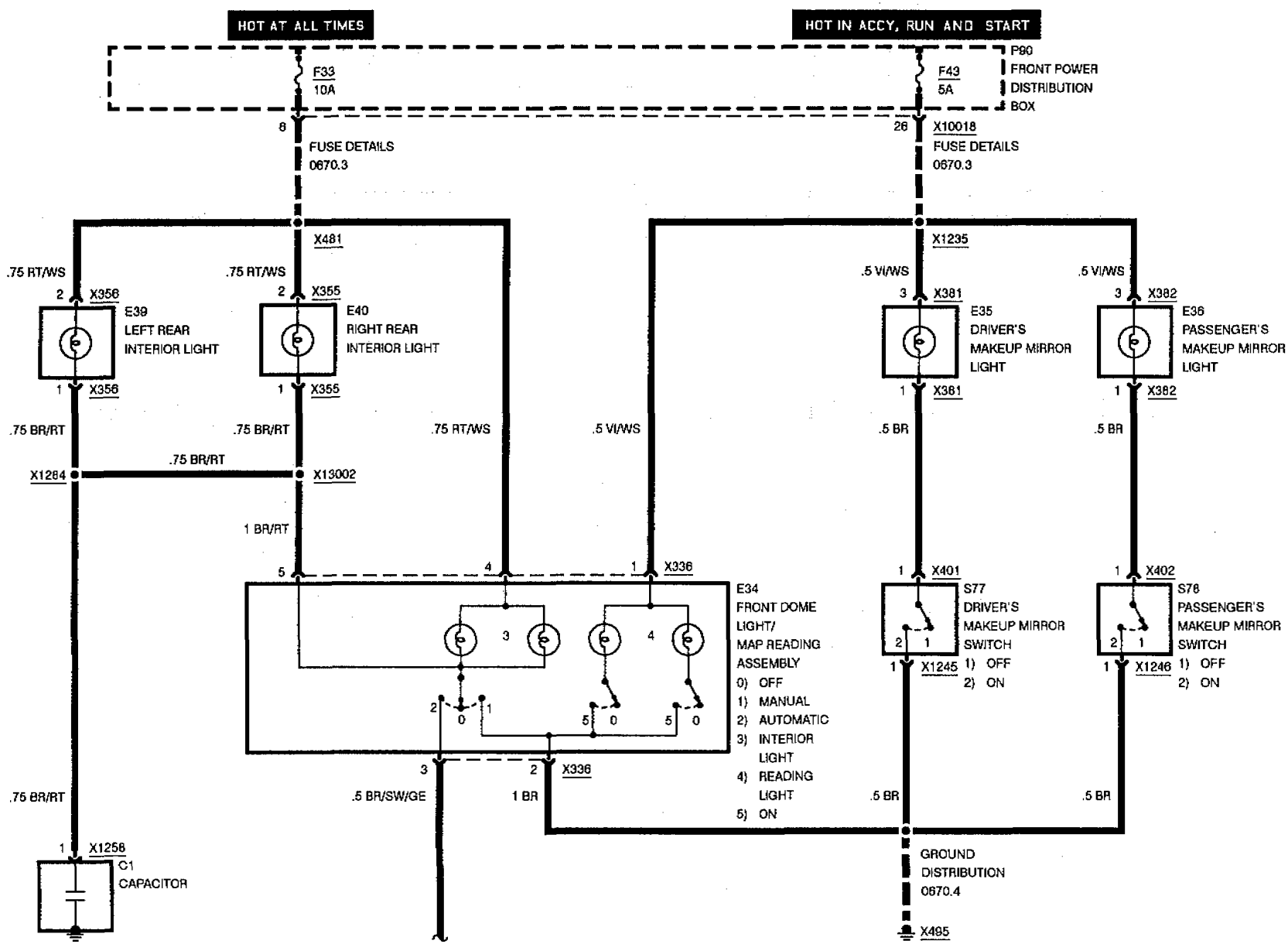
BRAKE LIGHTS
WITHOUT CCM

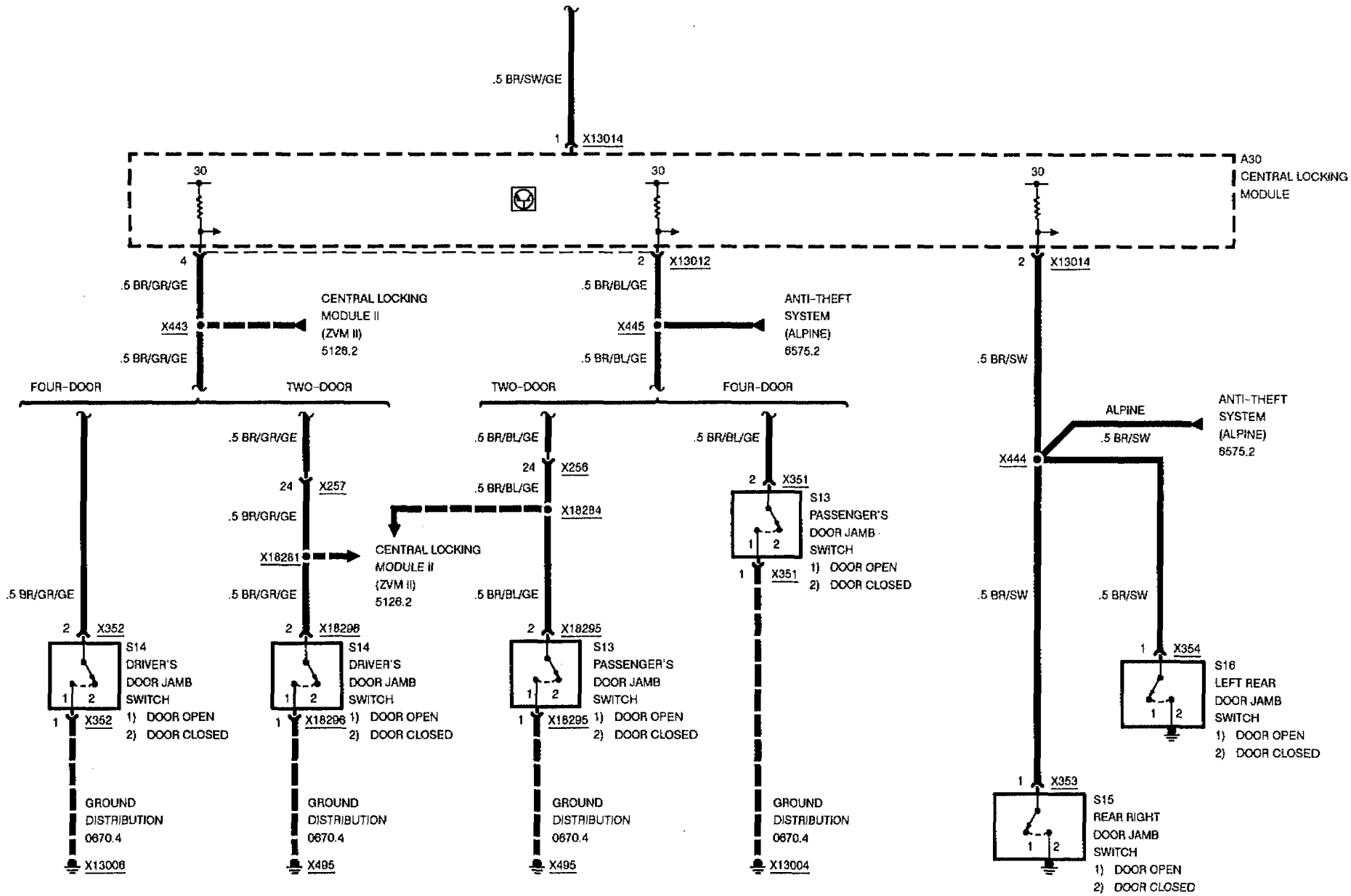


BRAKE LIGHTS
WITH CCM

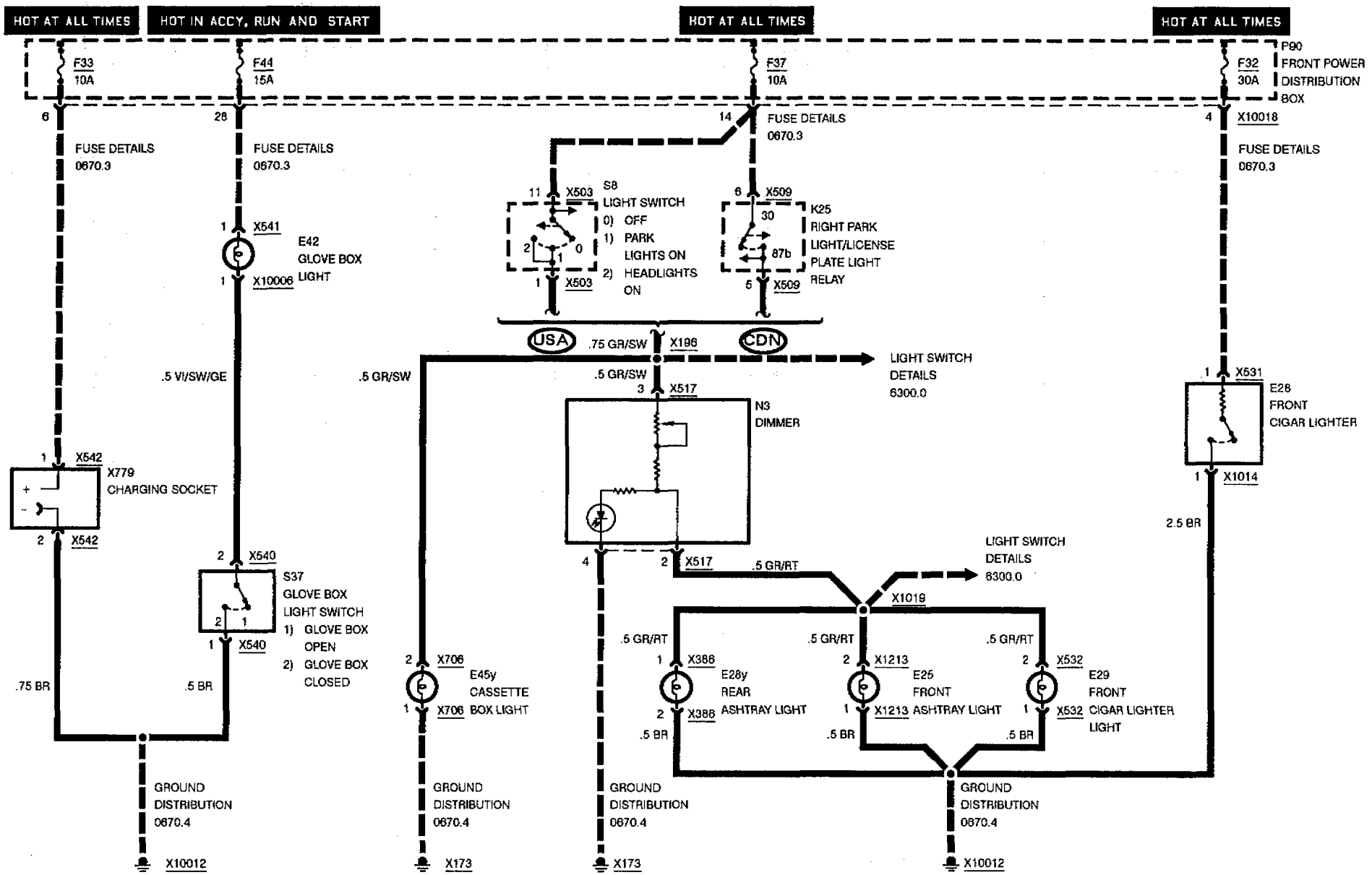


INTERIOR LIGHTS

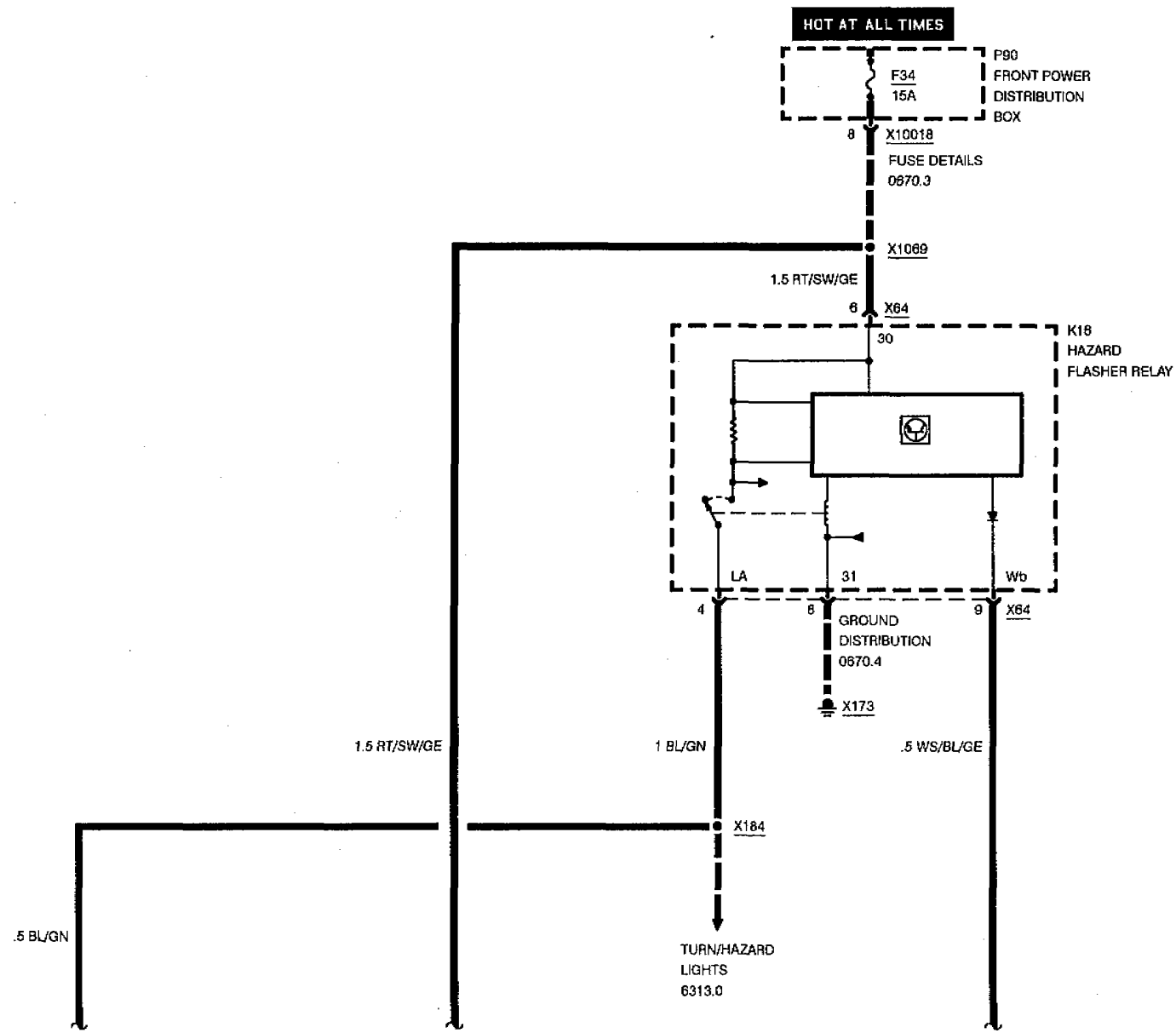


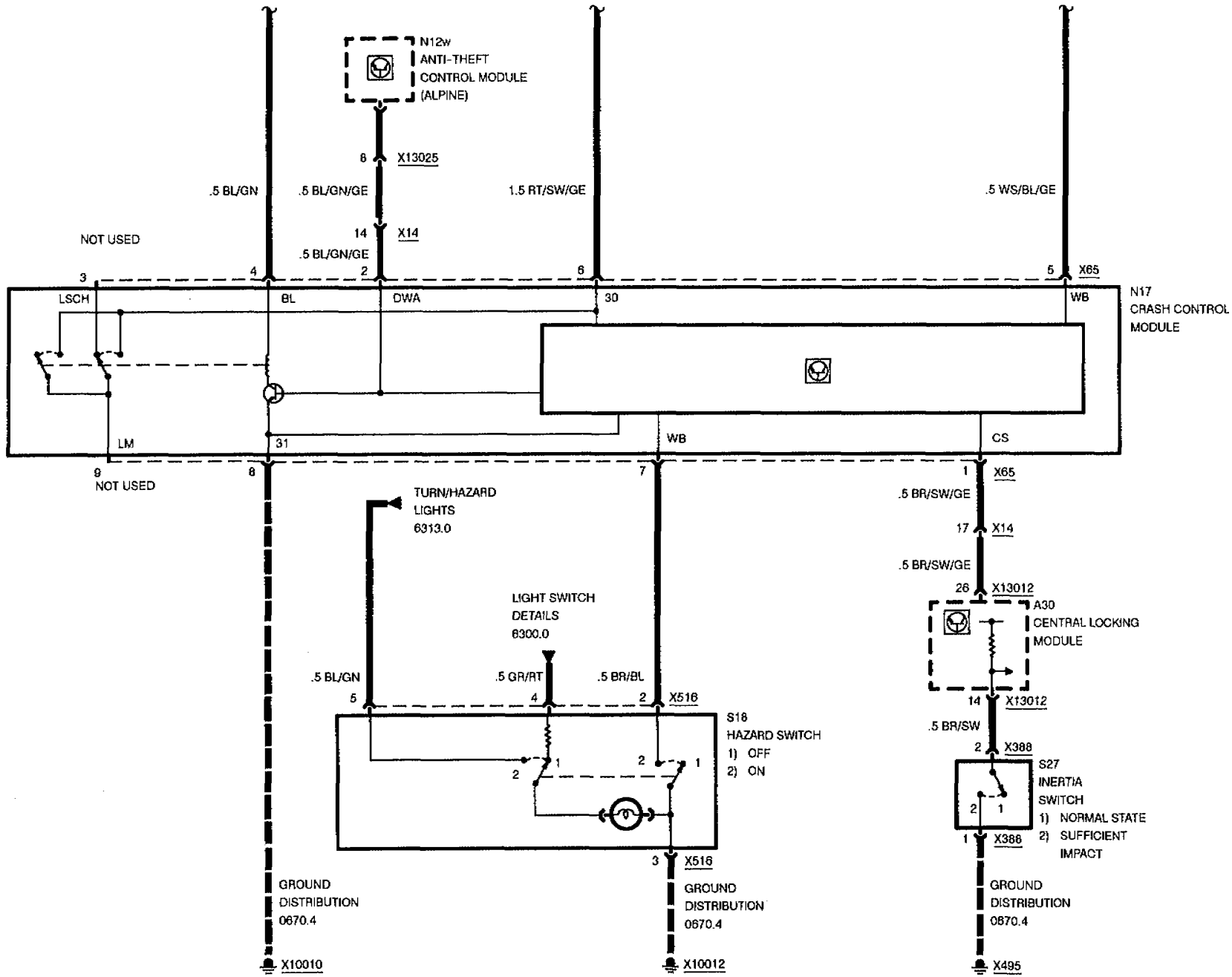

.5 BR/SW/GE
1 X13014
A30
CENTRAL LOCKING
MODULE
30
30
30
4
.5 BR/GR/GE
X443
.5 BR/GR/GE
CENTRAL LOCKING
MODULE II
(ZVM II)
5126.2
2 X13012
.5 BR/BL/GE
X445
.5 BR/BL/GE
ANTI-THEFT
SYSTEM
(ALPINE)
6575.2
2 X13014
.5 BR/SW
FOUR-DOOR
TWO-DOOR
TWO-DOOR
FOUR-DOOR
ALPINE
.5 BR/SW
X444
ANTI-THEFT
SYSTEM
(ALPINE)
6575.2
.5 BR/GR/GE
.5 BR/GR/GE
.5 BR/BL/GE
.5 BR/BL/GE
24 X257
24 X256
2 X351
.5 BR/GR/GE
.5 BR/BL/GE
X18281
CENTRAL LOCKING
MODULE II
(ZVM II)
5126.2
X18284
S13
PASSENGER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
1 X351
.5 BR/GR/GE
.5 BR/GR/GE
.5 BR/BL/GE
.5 BR/SW
.5 BR/SW
2 X352
2 X18296
2 X18295
1 X354
S14
DRIVER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
S14
DRIVER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
S13
PASSENGER'S
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
S16
LEFT REAR
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
1 X352
1 X18296
1 X18295
1 X353
S15
REAR RIGHT
DOOR JAMB
SWITCH
1) DOOR OPEN
2) DOOR CLOSED
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X13006
X495
X495
X13004

GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

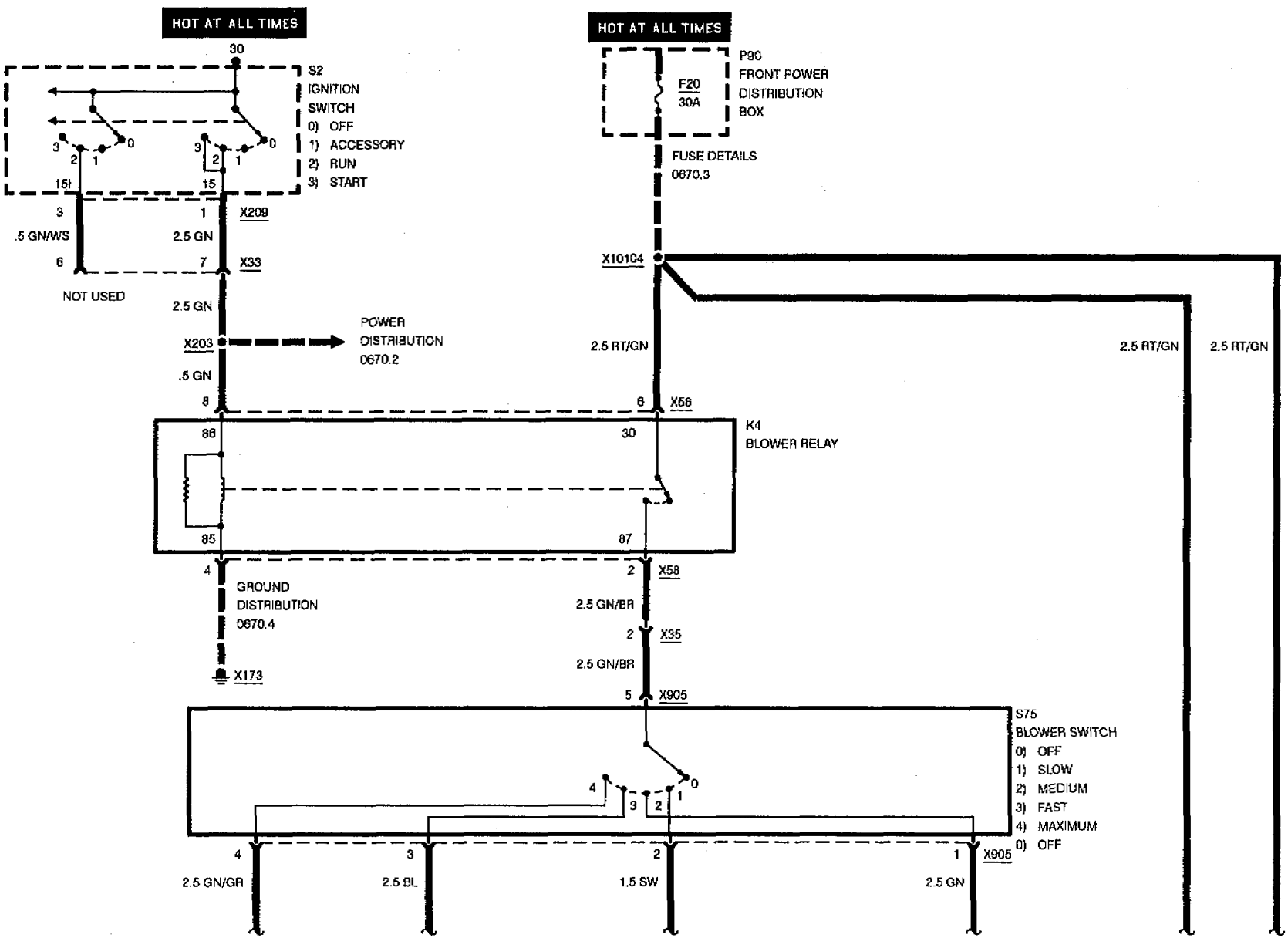


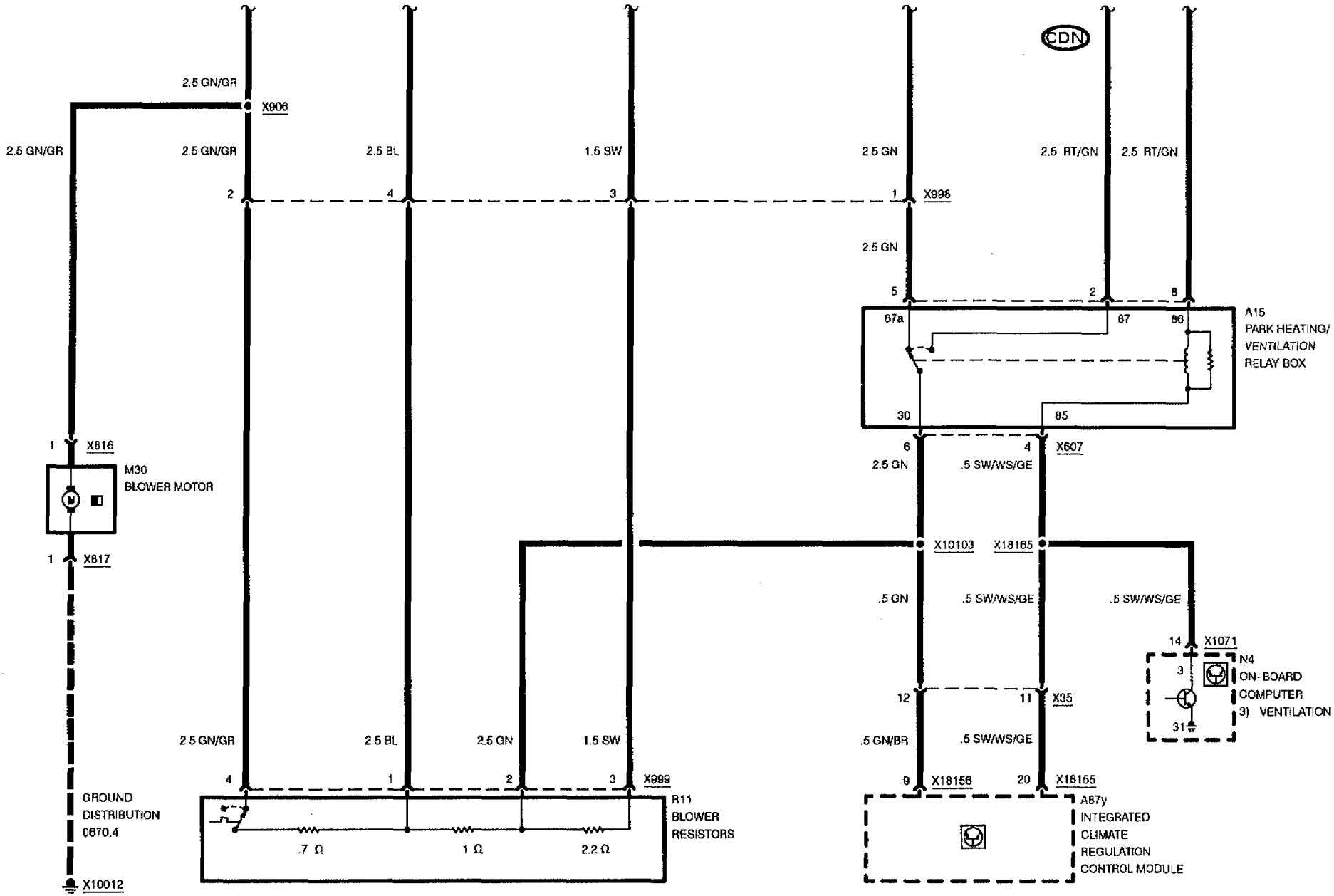
CRASH CONTROL MODULE



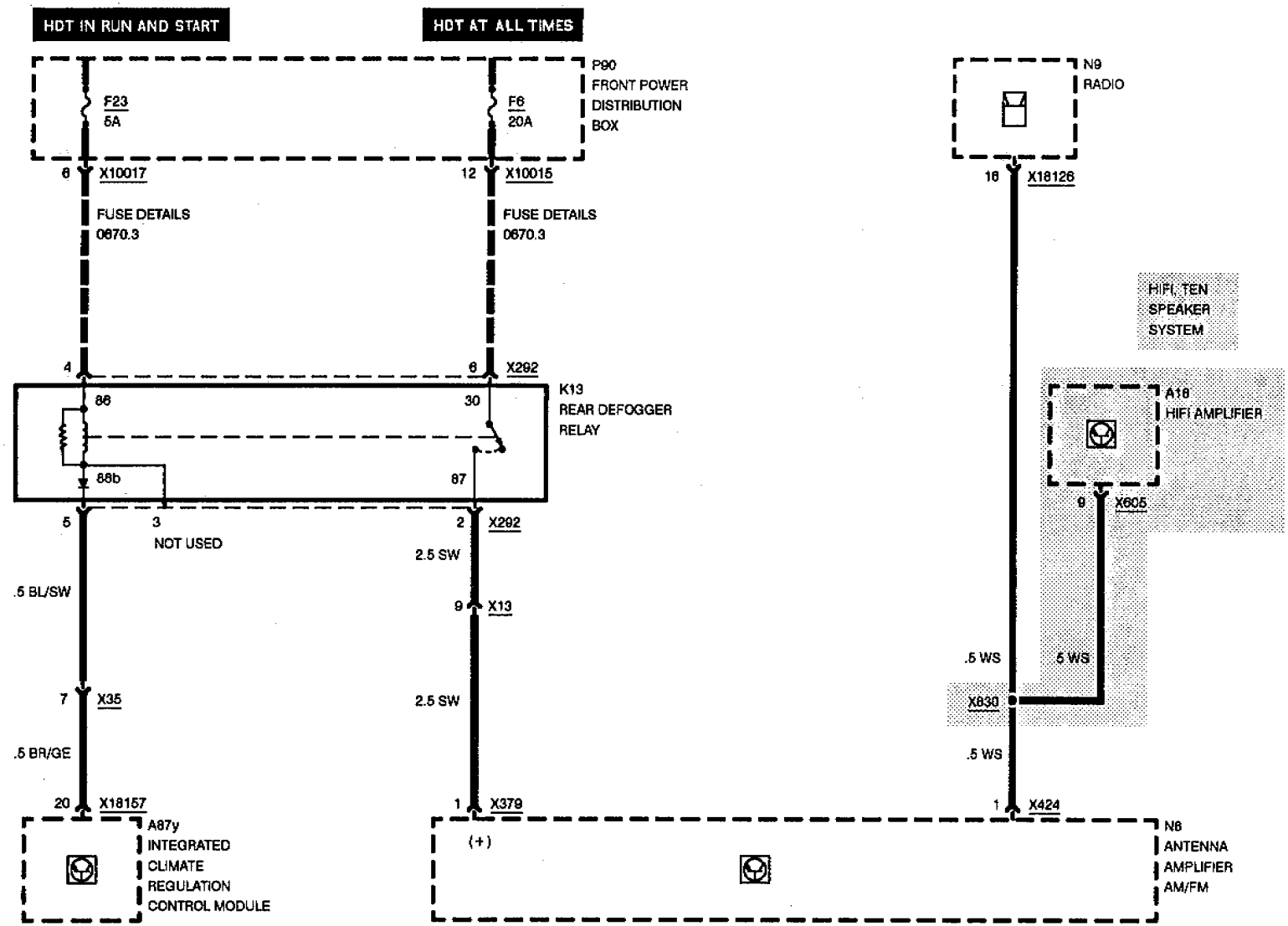

N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
8
X13025
.5 BL/GN
.5 BL/GN/GE
1.5 RT/SW/GE
.5 WS/BL/GE
NOT USED
14
X14
.5 BL/GN/GE
3
4
2
6
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
TURN/HAZARD
LIGHTS
6313.0
.5 BR/SW/GE
17
X14
.5 BR/SW/GE
26
X13012
A30
CENTRAL LOCKING
MODULE
LIGHT SWITCH
DETAILS
6300.0
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2
X516
14
X13012
S18
HAZARD SWITCH
1) OFF
2) ON
.5 BR/SW
2
X388
S27
INERTIA
SWITCH
1) NORMAL STATE
2) SUFFICIENT
IMPACT
3
X516
1
X388
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X10010
X10012
X495

PARK VENTILATION WITH IHKR



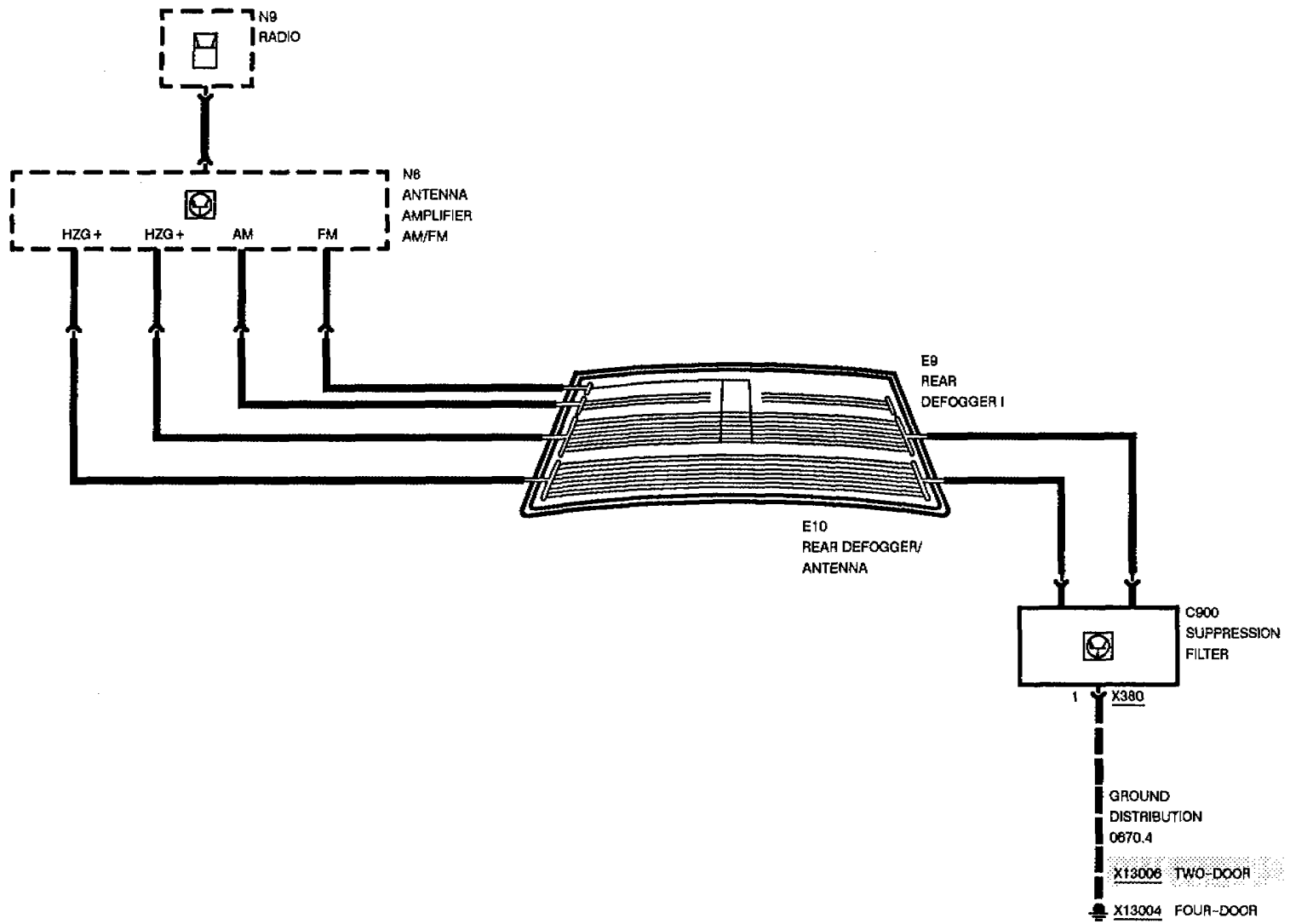

CDN
2.5 GN/GR
X906
2.5 GN/GR
2.5 GN/GR
2.5 BL
1.5 SW
2.5 GN
2.5 RT/GN
2.5 RT/GN
2
4
3
1
X998
2.5 GN
5
2
8
87a
87
86
A15
PARK HEATING/
VENTILATION
RELAY BOX
30
85
1
X616
M30
BLOWER MOTOR
1
X617
6
2.5 GN
4
.5 SW/WS/GE
X607
X10103
X18165
.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
14
X1071
N4
ON-BOARD
COMPUTER
3) VENTILATION
3
31
12
11
X35
2.5 GN/GR
2.5 BL
2.5 GN
1.5 SW
.5 GN/BR
.5 SW/WS/GE
4
1
2
3
X999
9
X18156
20
X18155
GROUND
DISTRIBUTION
0670.4
R11
BLOWER
RESISTORS
.7 Ω
1 Ω
2.2 Ω
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
X10012

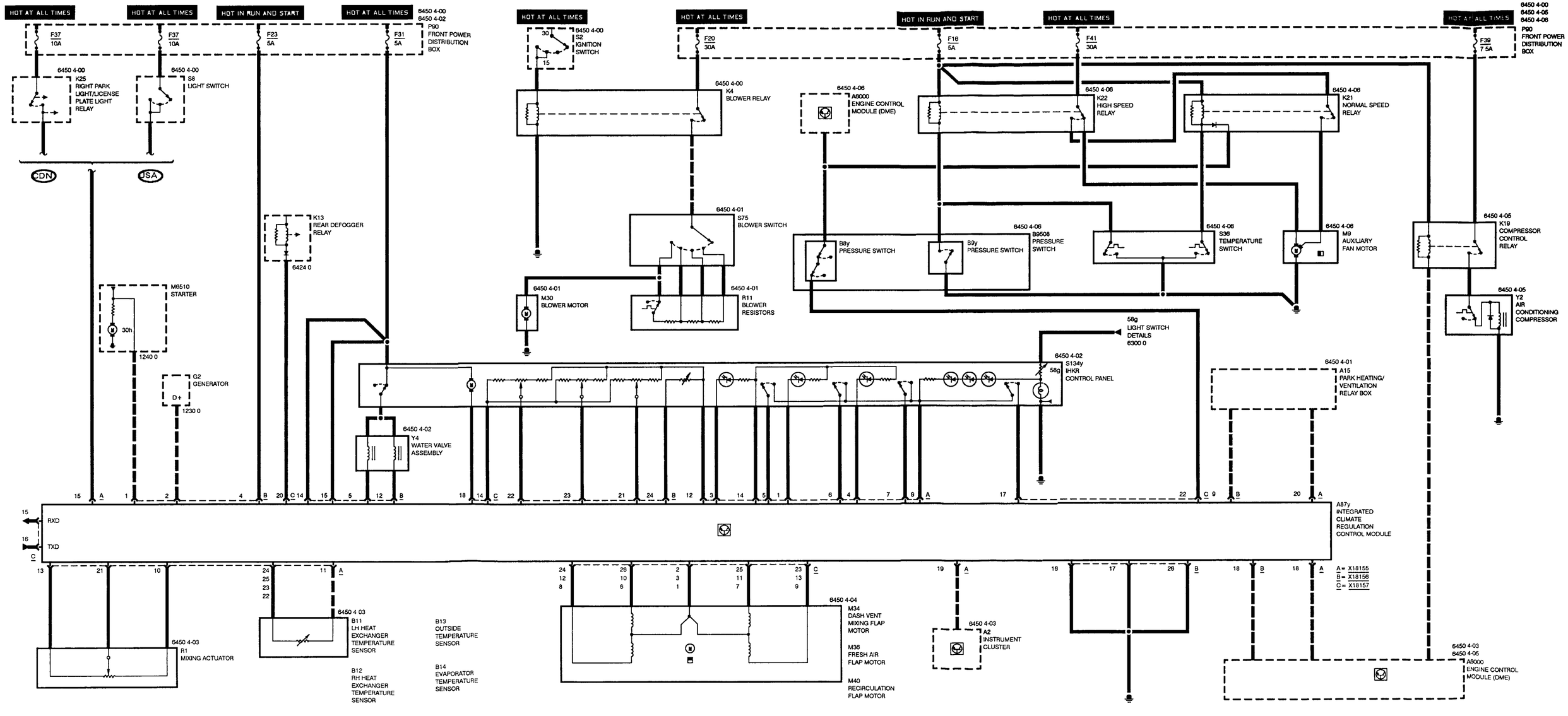
REAR WINDOW DEFOGGER



REAR WINDOW DEFOGGER

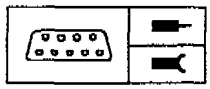
REAR WINDOW ANTENNA





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12/93 6450 4 1993



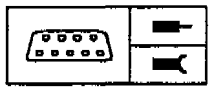
Pin Assignments

A = X18155	26 Pins, white
B = X18156	26 Pins, black
C = X18157	26 Pins, blue

X18155

Pin	Type	Description/Function	Connection
1	A	Function light, air recirculation	IHKR control panel
2		Not used	
3	A	Function light, rear window defogger	IHKR control panel
4	A	Function light, air conditioning	IHKR control panel
5	E	Rear window defogger switch	IHKR control panel
6	E	Air circulation switch	IHKR control panel
7	E	Air conditioning switch	IHKR control panel
8		Not used	
9	A	Ground for rear window defogger switch, air recirculation switch, air conditioning switch, electric flaps switches, and function lights	IHKR control panel
10	A	Ground for mixing actuator	Mixing actuator
11	A	Ground for temperature sensors	Various temperature sensors
12	A	Ground for rotary switches and interior temperature sensor	IHKR control panel
13	A	Voltage supply for mixing actuator	Mixing actuator
14	E	Voltage supply for function lights	IHKR control panel
15 (USA)	E	Terminal 58K	Light switch
15 (CDN)	E	Terminal 58K	Right park light/license plate light relay, terminal 87
16		Not used	
17		Not used	
18	E	Crankshaft position/RPM signal TD	Engine control module (DME)
19	E	Vehicle speed	Instrument cluster
20	E	Independent ventilation	Park heating/ventilation relay box
21	E	Nominal mixing value	Mixing actuator
22	A/E	Evaporator temperature	Evaporator temperature sensor
23	A/E	Outside temperature	Outside temperature sensor
24	A/E	Heater temperature, left	Left heat exchanger temperature sensor

E = Input, A = Output, M = Ground



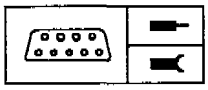
Pin Assignments

Pin	Type	Description/Function	Connection
25	A/E	Heater temperature, right	Right heat exchanger temperature sensor
26		Not used	

X18156

Pin	Type	Description/Function	Connection
1	E	Terminal 30h	Starter, terminal 30h
2	E	Terminal 61	Generator
3		Not used	
4	E	Voltage supply, terminal 15	Front power distribution box, fuse 23
5	A	Left water valve activation	Water valve assembly
6		Not used	
7		Not used	
8		Not used	
9	E	Terminal 15 (independent ventilation only)	Park heating/ventilation relay box
10		Not used	
11		Not used	
12	A	Right water valve activation	Water valve assembly
13		Not used	
14	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
15	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
16	M	Ground for load circuit	Ground point
17	M	Ground for load circuit	Ground point
18	A	Engine control module (DME) activation (anti-stall)	Engine control module (DME)
19		Not used	
20		Not used	
21	E	Nominal temperature valve, right	IHKR control panel
22	E	Nominal temperature valve, left	IHKR control panel
23	E	Nominal air flow valve	IHKR control panel
24	A/E	Interior temperature sensor	IHKR control panel
25		Not used	
26	M	Ground for electronics	Ground point

E = Input, A = Output, M = Ground



Pin Assignments

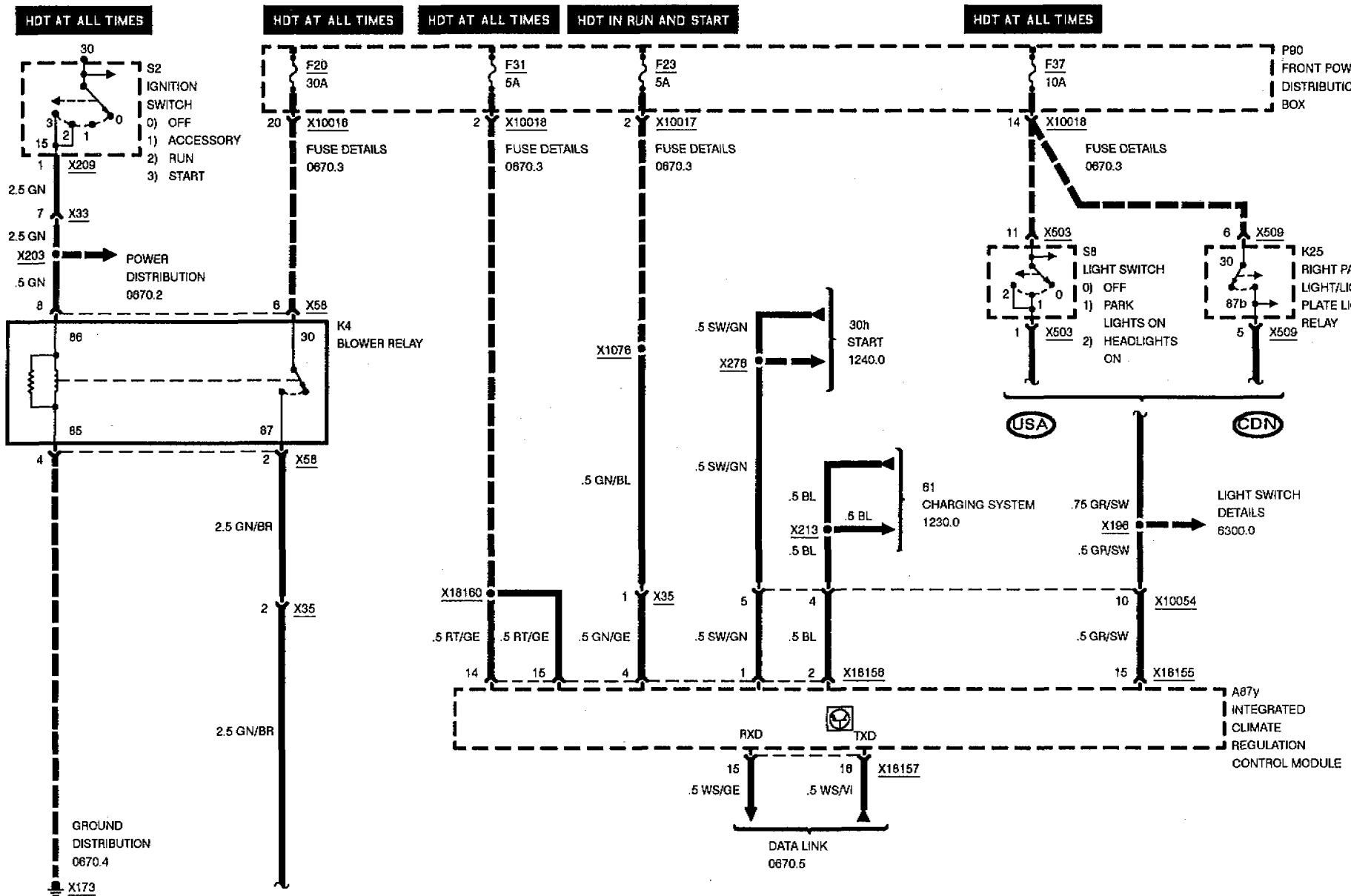
X18157

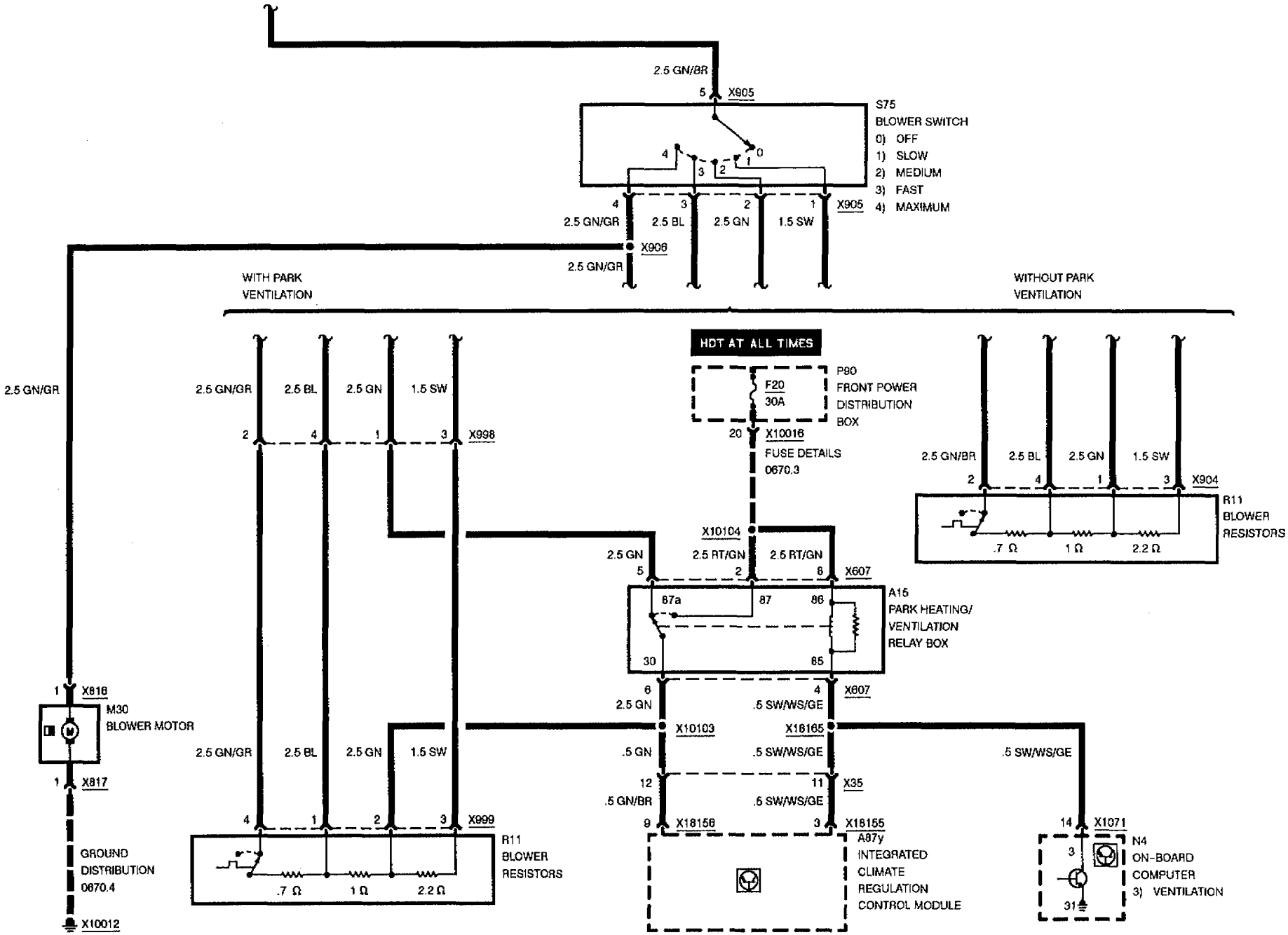
Pin	Type	Description/Function	Connection
1	A	Voltage supply for recirculation flap motor	Recirculation flap motor
2	A	Voltage supply for dash vent mixing flap motor	Dash vent mixing flap motor
3	A	Voltage supply for fresh air flap motor	Fresh air flap motor
4		Not used	
5		Not used	
6	A	Recirculation flap motor activation	Recirculation flap motor
7	A	Recirculation flap motor activation	Recirculation flap motor
8	A	Recirculation flap motor activation	Recirculation flap motor
9	A	Recirculation flap motor activation	Recirculation flap motor
10	A	Fresh air flap motor activation	Fresh air flap motor
11	A	Fresh air flap motor activation	Fresh air flap motor
12	A	Fresh air flap motor activation	Fresh air flap motor
13	A	Fresh air flap motor activation	Fresh air flap motor
14	A	Voltage supply for rotary switches	IHKR control panel
15	A	RxD diagnostic data line	Data link connector
16	E/A	TxD diagnostic data line	Data link connector
17	E	Ventilation flap switch	IHKR control panel
18	A	Interior sensor blower activation	IHKR control panel
19		Not used	
20	A	Rear window defogger activation	Rear defogger relay, terminal 86b
21		Not used	
22	A	Activate A/C compressor/auxiliary fan stage 1	Engine control module (DME) and normal speed relay, terminal 85b
23	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
24	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground

INTEGRATED CLIMATE REGULATION (IHKR E36)

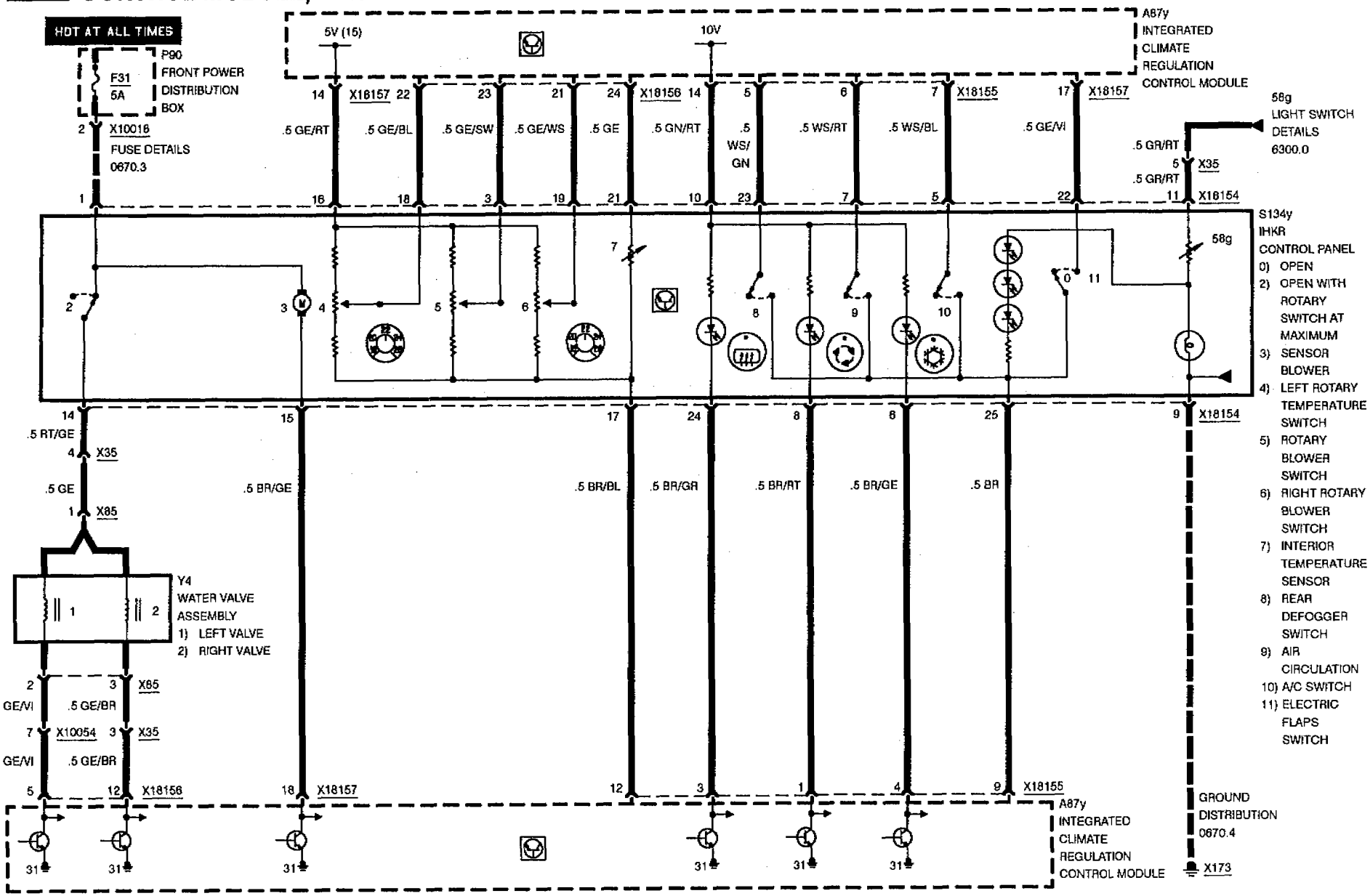
POWER, BLOWER CONTROLS




2.5 GN/BR
5 X905
S75
BLOWER SWITCH
0) OFF
1) SLOW
2) MEDIUM
3) FAST
4) MAXIMUM
4 3 2 1 X905
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
X906
2.5 GN/GR
WITH PARK VENTILATION
WITHOUT PARK VENTILATION
HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F20
30A
20 X10016
FUSE DETAILS
0670.3
2.5 GN/GR
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
2 4 1 3 X998
2.5 GN/BR 2.5 BL 2.5 GN 1.5 SW
2 4 1 3 X904
R11
BLOWER RESISTORS
.7 Ω 1 Ω 2.2 Ω
X10104
2.5 GN 2.5 RT/GN 2.5 RT/GN
5 2 6 X607
A15
PARK HEATING/ VENTILATION RELAY BOX
87a 87 86
30 85
1 X816
M30
BLOWER MOTOR
6 2.5 GN
4 .5 SW/WS/GE X607
X10103
X16165
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
1 X817
12 .5 GN/BR
11 .6 SW/WS/GE X35
4 1 2 3 X999
9 X18156
3 X16155
14 X1071
R11
BLOWER RESISTORS
.7 Ω 1 Ω 2.2 Ω
A87y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
N4
ON-BOARD COMPUTER
3) VENTILATION
3
31
GROUND DISTRIBUTION
0670.4
X10012

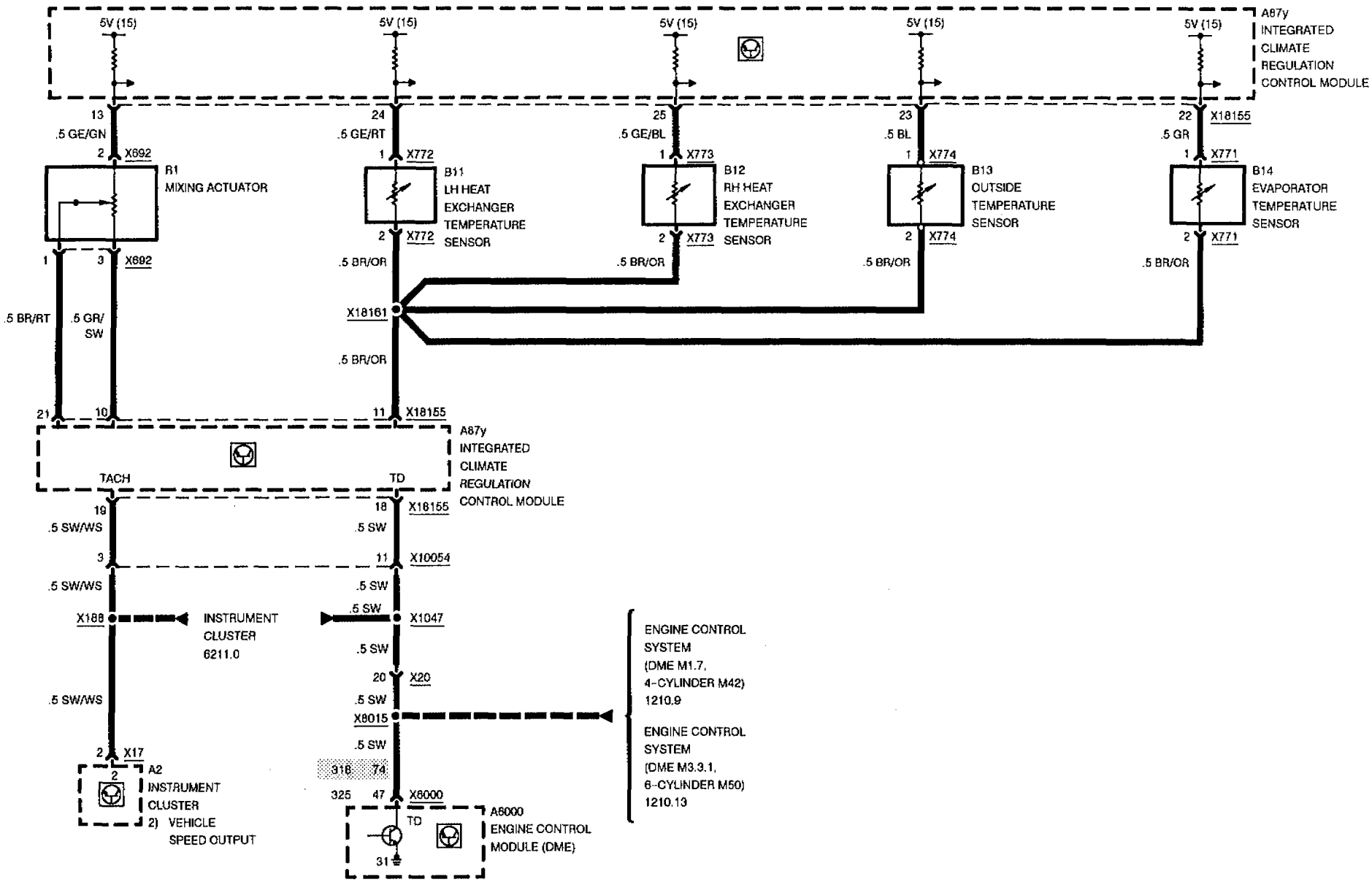
INTEGRATED CLIMATE REGULATION (IHKR E36)

CONTROL MODULE, WATER VALVES



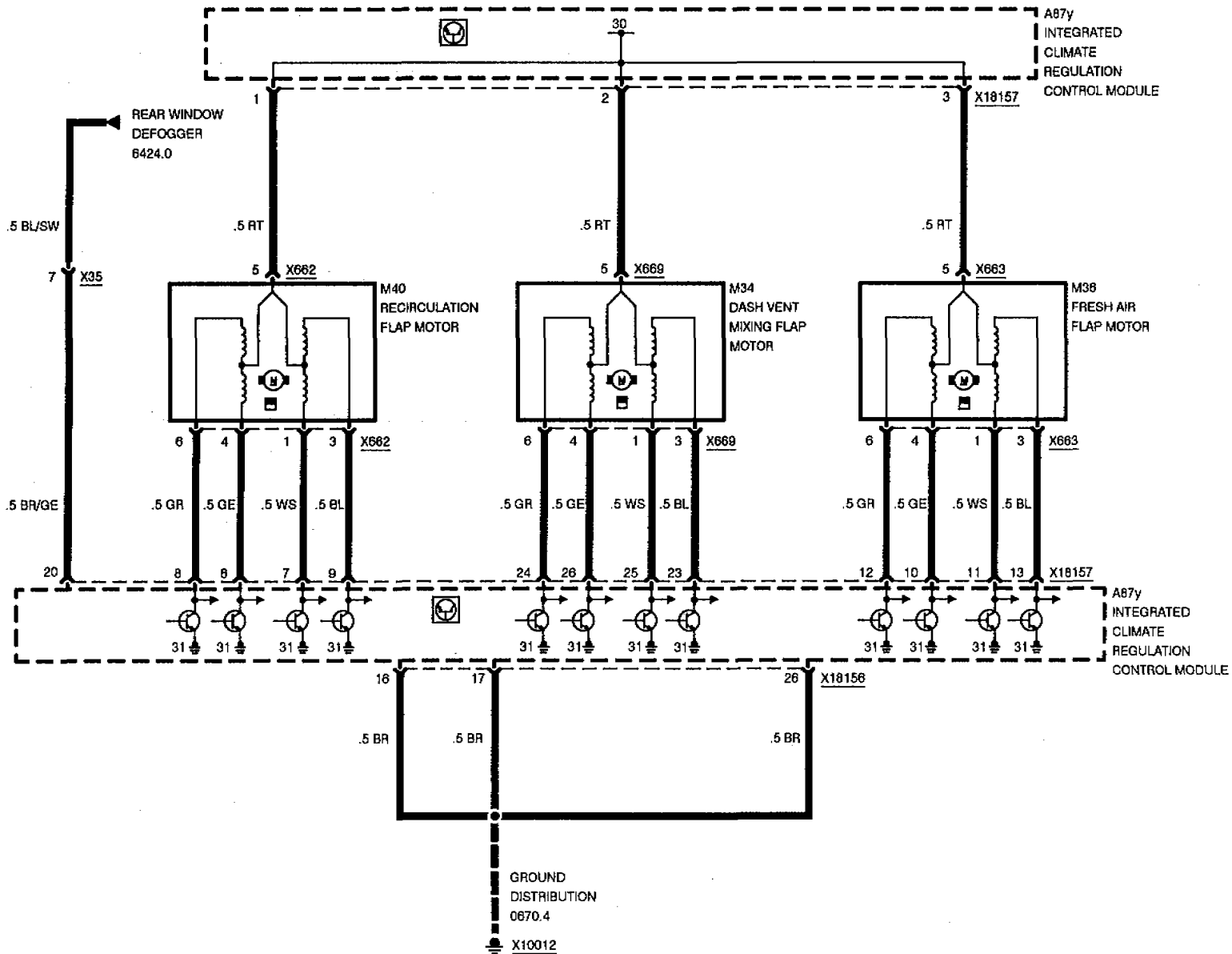
INTEGRATED CLIMATE REGULATION (IHKR E36)

TEMPERATURE CONTROL



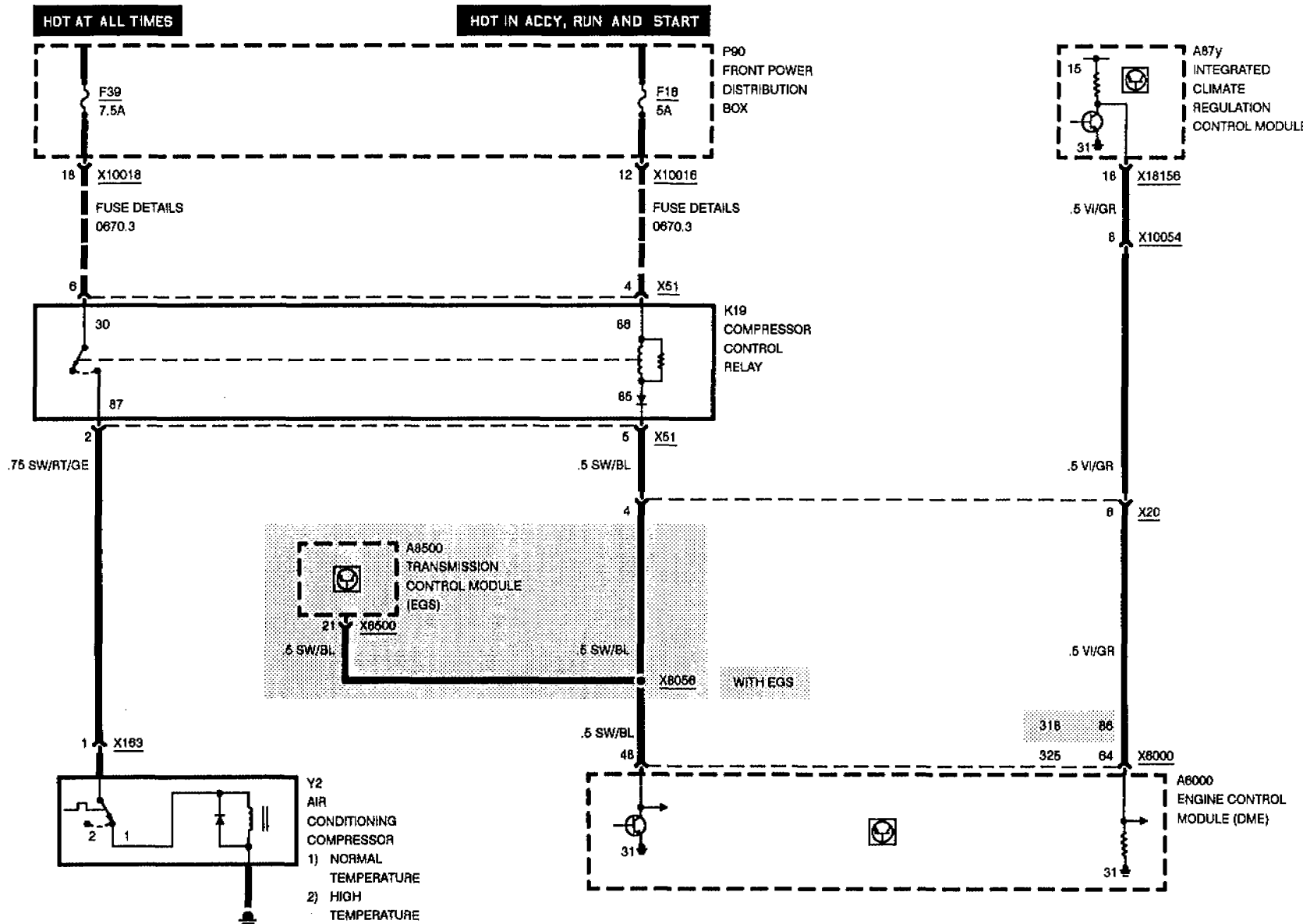
INTEGRATED CLIMATE REGULATION (IHKR E36)

AIR DELIVERY



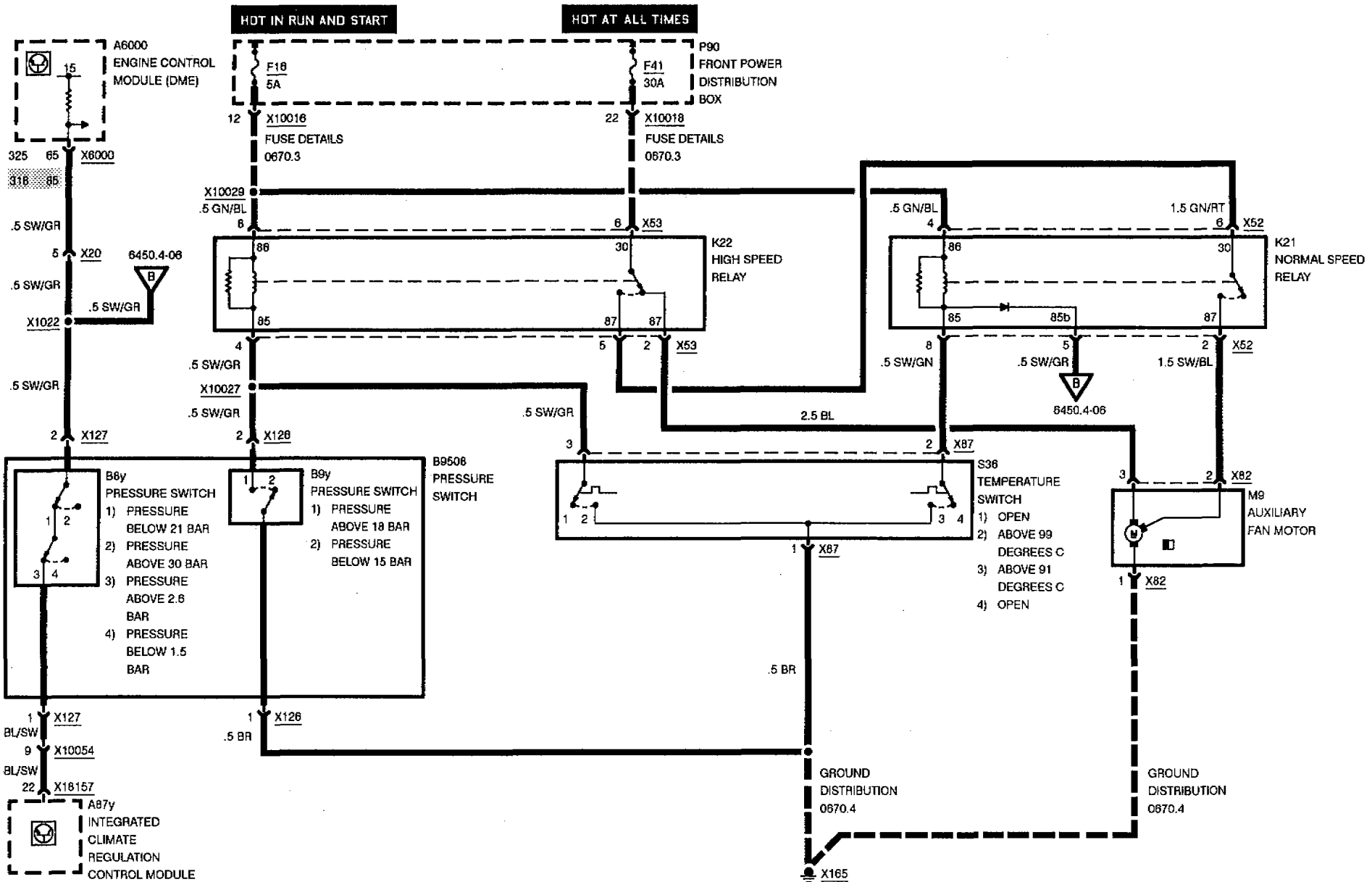
INTEGRATED CLIMATE REGULATION (IHKR E36)

COMPRESSOR CONTROLS

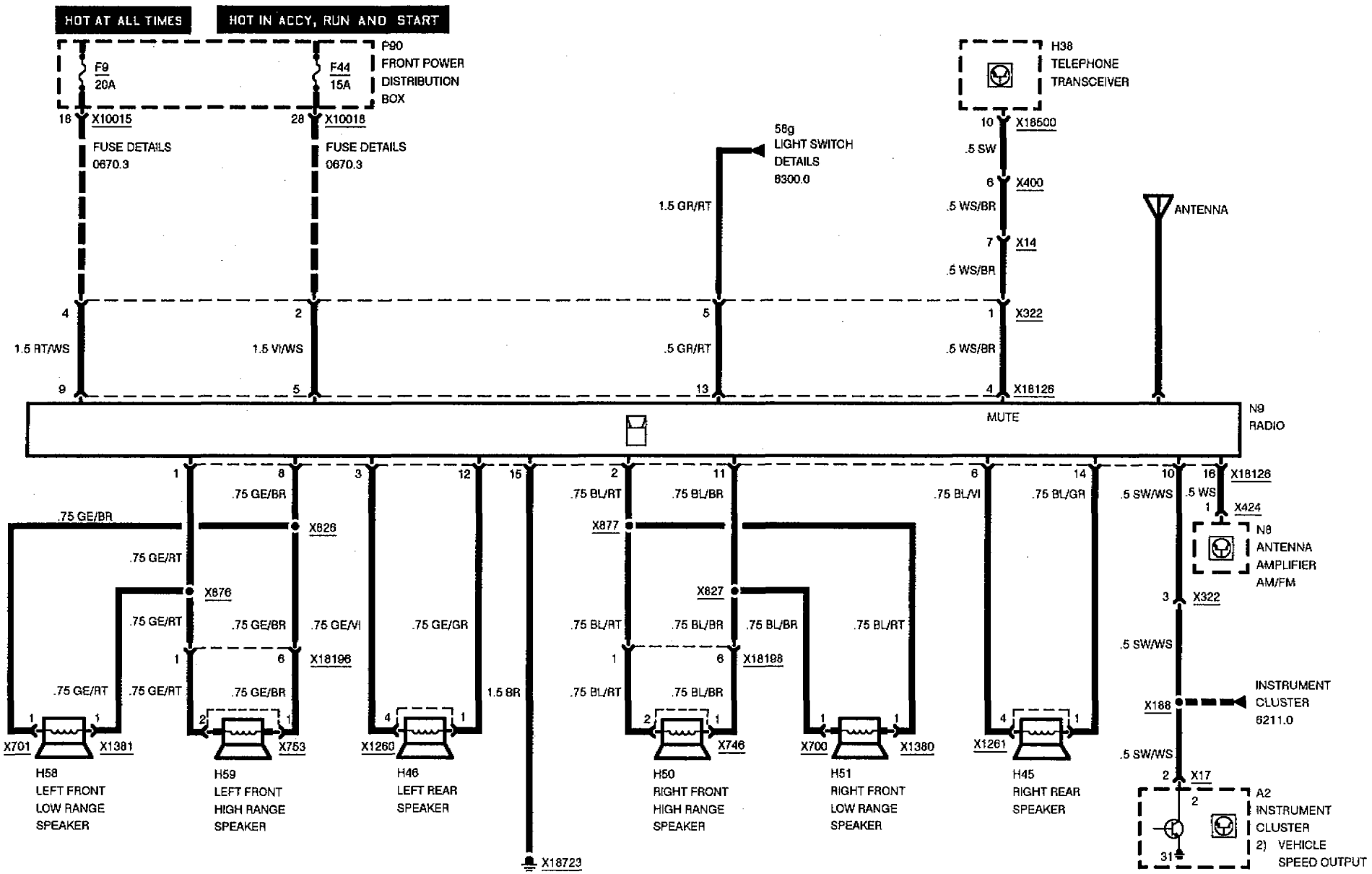


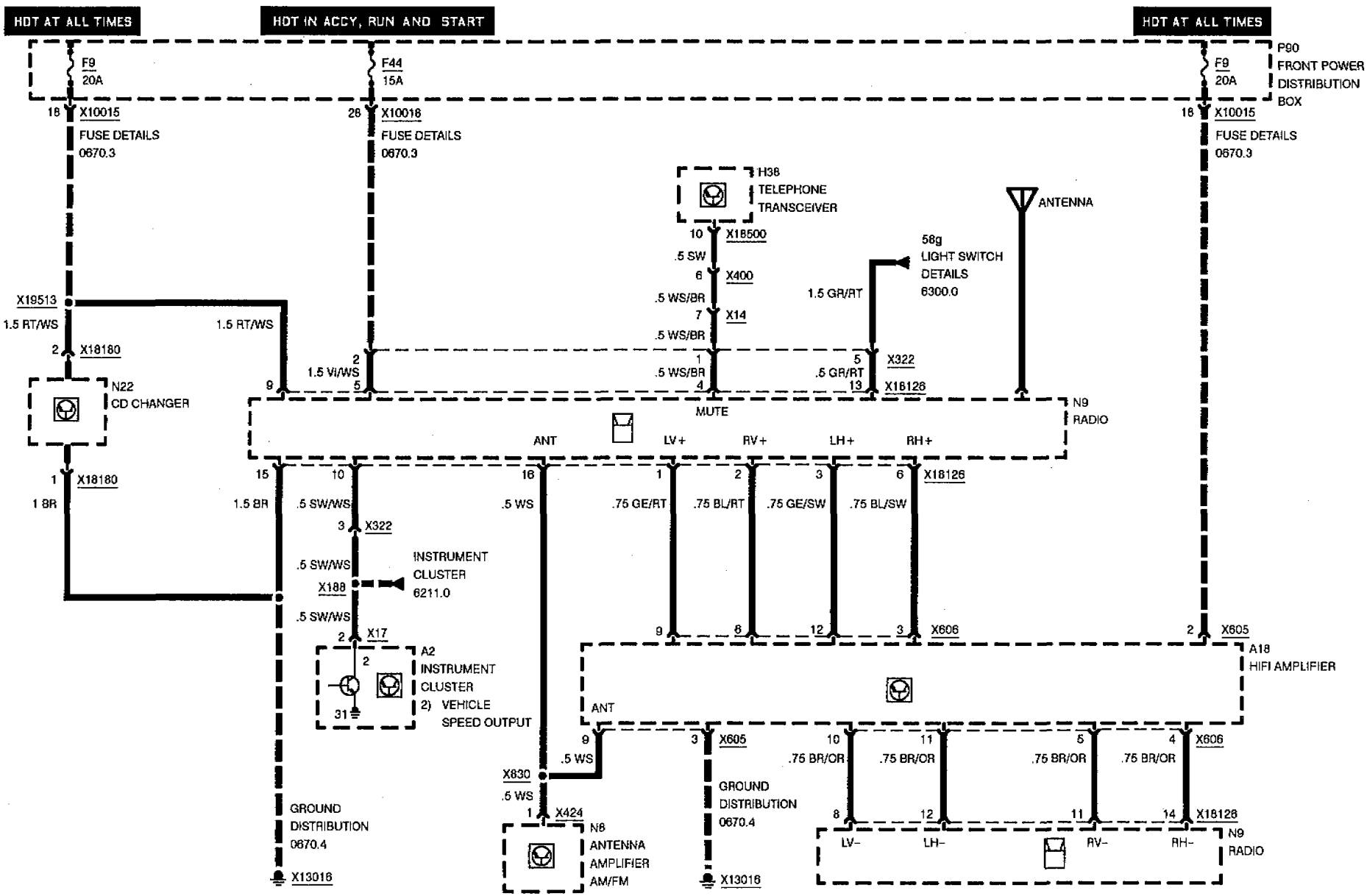
INTEGRATED CLIMATE REGULATION (IHKR E36)

AUXILIARY FAN

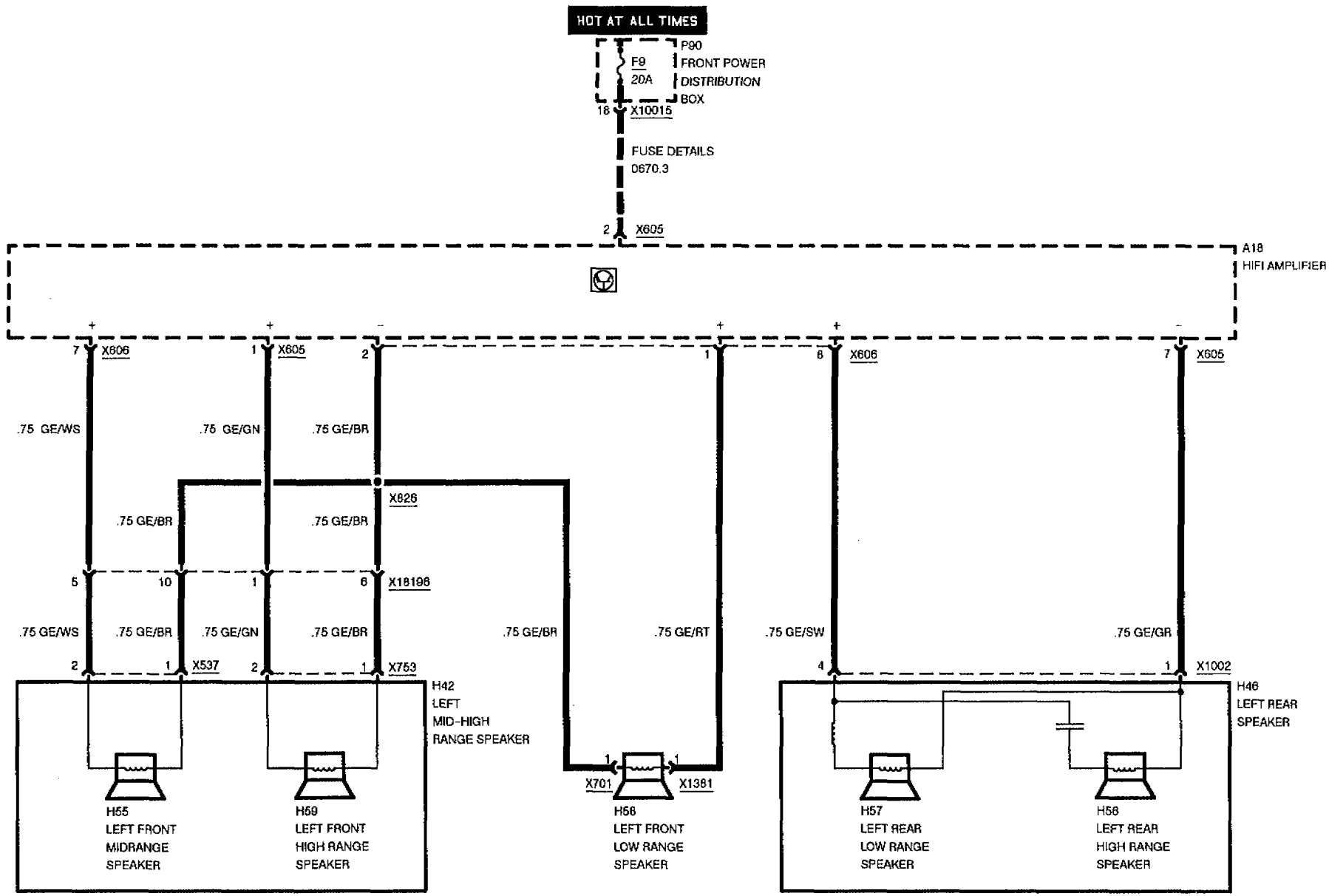


STEREO, 6-SPEAKER SYSTEM

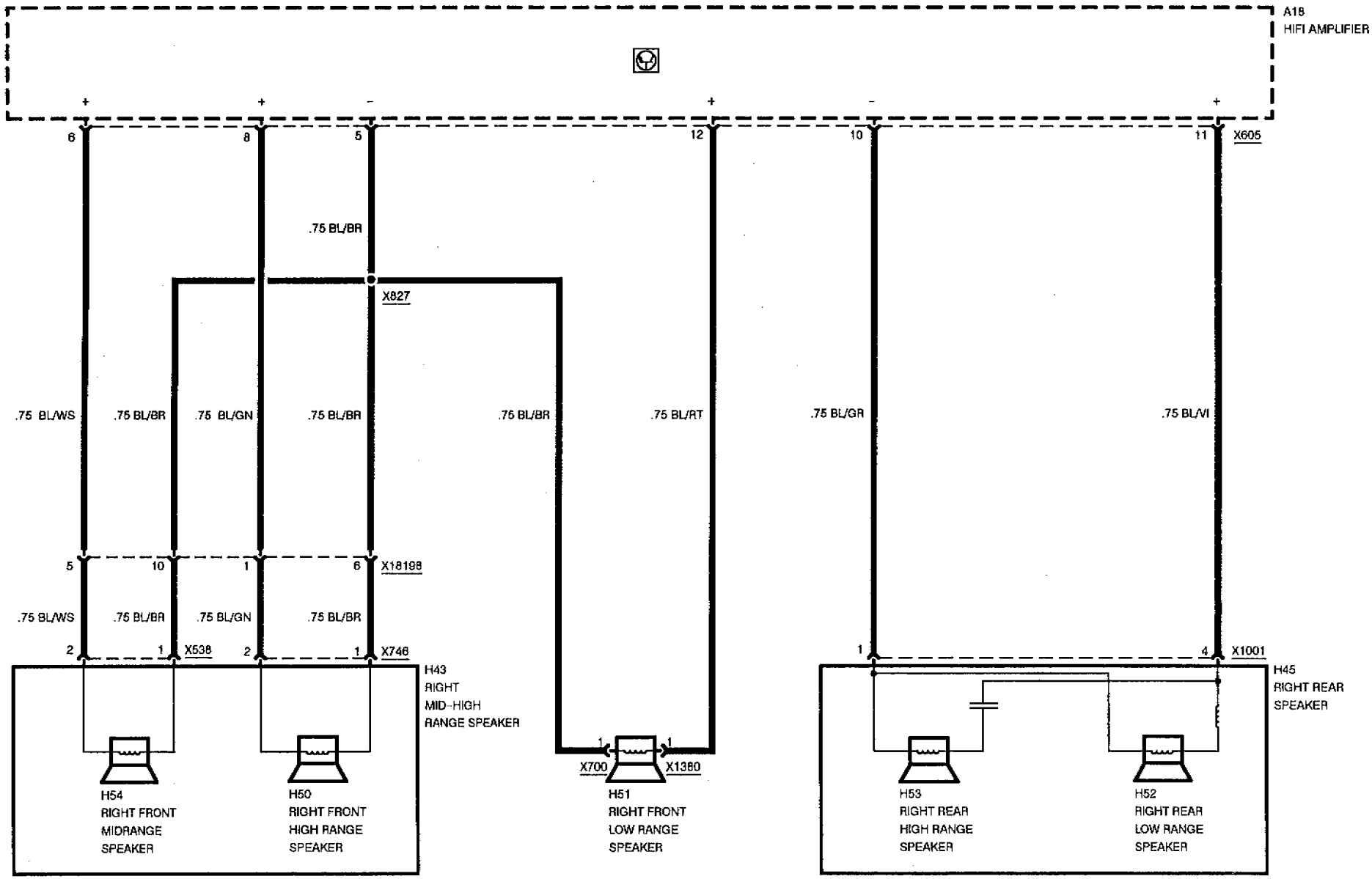



HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
HOT AT ALL TIMES
F9 20A
F44 15A
F9 20A
P90 FRONT POWER DISTRIBUTION BOX
18 X10015 FUSE DETAILS 0670.3
28 X10018 FUSE DETAILS 0670.3
18 X10015 FUSE DETAILS 0670.3
H36 TELEPHONE TRANSCEIVER
ANTENNA
10 X18500
.5 SW
6 X400
.5 WS/BR
7 X14
.5 WS/BR
58g LIGHT SWITCH DETAILS 6300.0
1.5 GR/RT
X19513
1.5 RT/WS
1.5 RT/WS
2 X18180
N22 CD CHANGER
2 1.5 VI/WS
9 5
1 .5 WS/BR 4
5 .5 GR/RT 13 X322 X18126
MUTE
N9 RADIO
ANT
LV+
RV+
LH+
RH+
1 X18180
1 BR
15 1.5 BR
10 .5 SW/WS
3 X322
.5 SW/WS
X188
INSTRUMENT CLUSTER 6211.0
.5 SW/WS
2 X17
2
31
A2 INSTRUMENT CLUSTER 2) VEHICLE SPEED OUTPUT
16 .5 WS
1 .75 GE/RT
2 .75 BL/RT
3 .75 GE/SW
6 .75 BL/SW
X18126
9 6 12 3 X606
2 X605
A18 HIFI AMPLIFIER
ANT
9 .5 WS
X630
.5 WS
1 X424
N8 ANTENNA AMPLIFIER AM/FM
3 X605
GROUND DISTRIBUTION 0670.4
X13016
10 .75 BR/OR
11 .75 BR/OR
5 .75 BR/OR
4 .75 BR/OR
X606
8 12 11 14 X18126
LV-
LH-
RV-
RH-
N9 RADIO
GROUND DISTRIBUTION 0670.4
X13016

HIFI, 10-SPEAKER SYSTEM



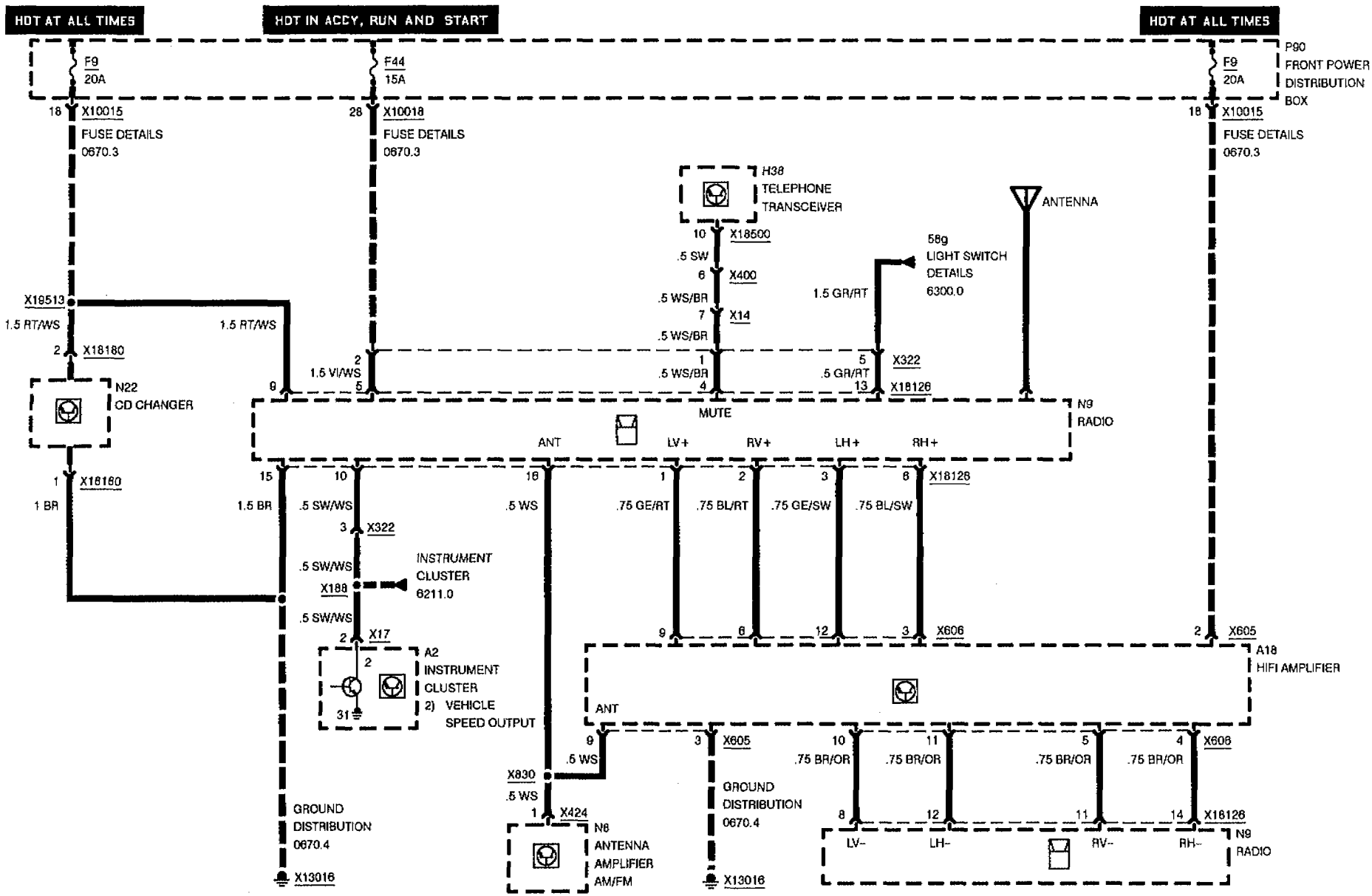
HIFI, 10-SPEAKER SYSTEM

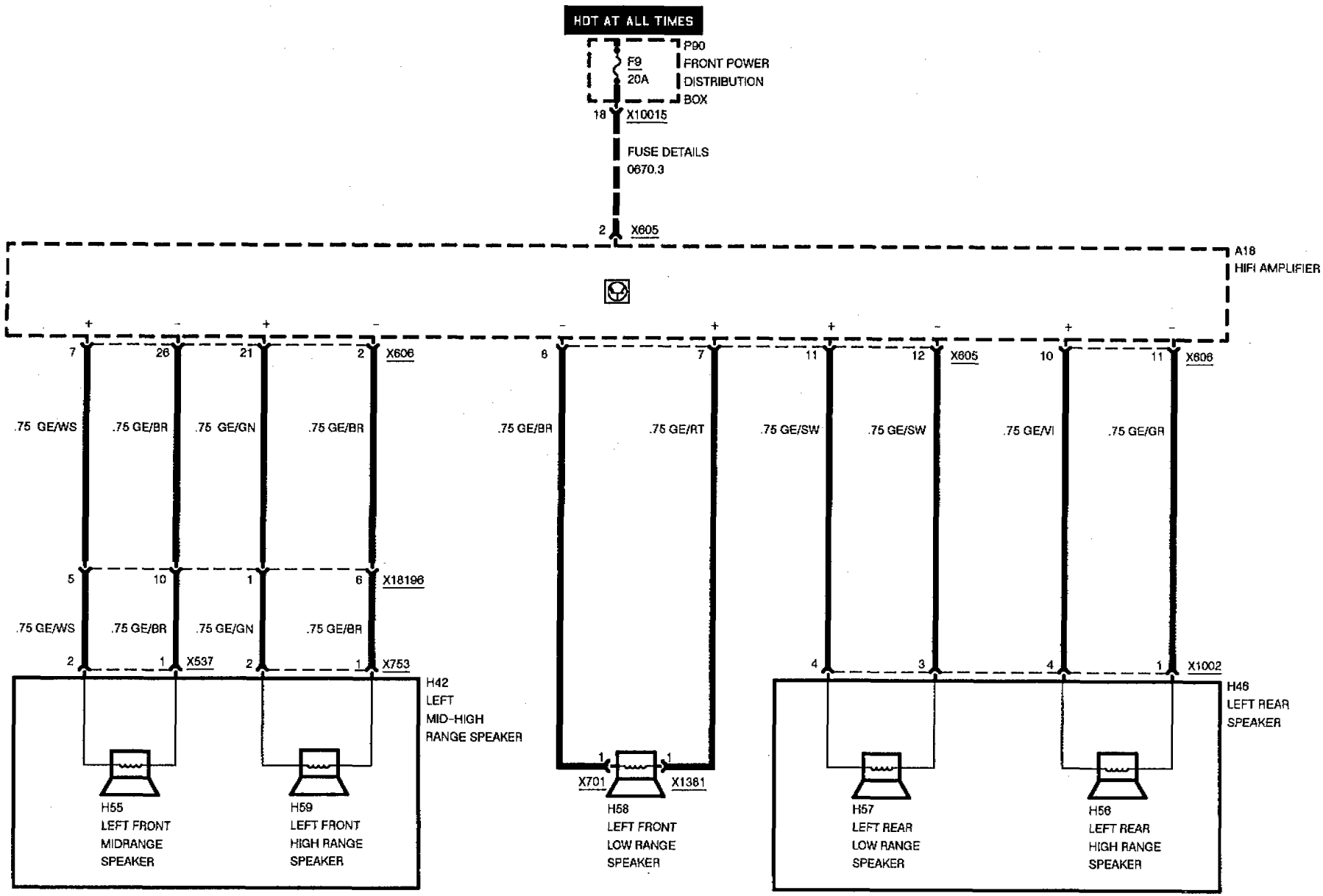


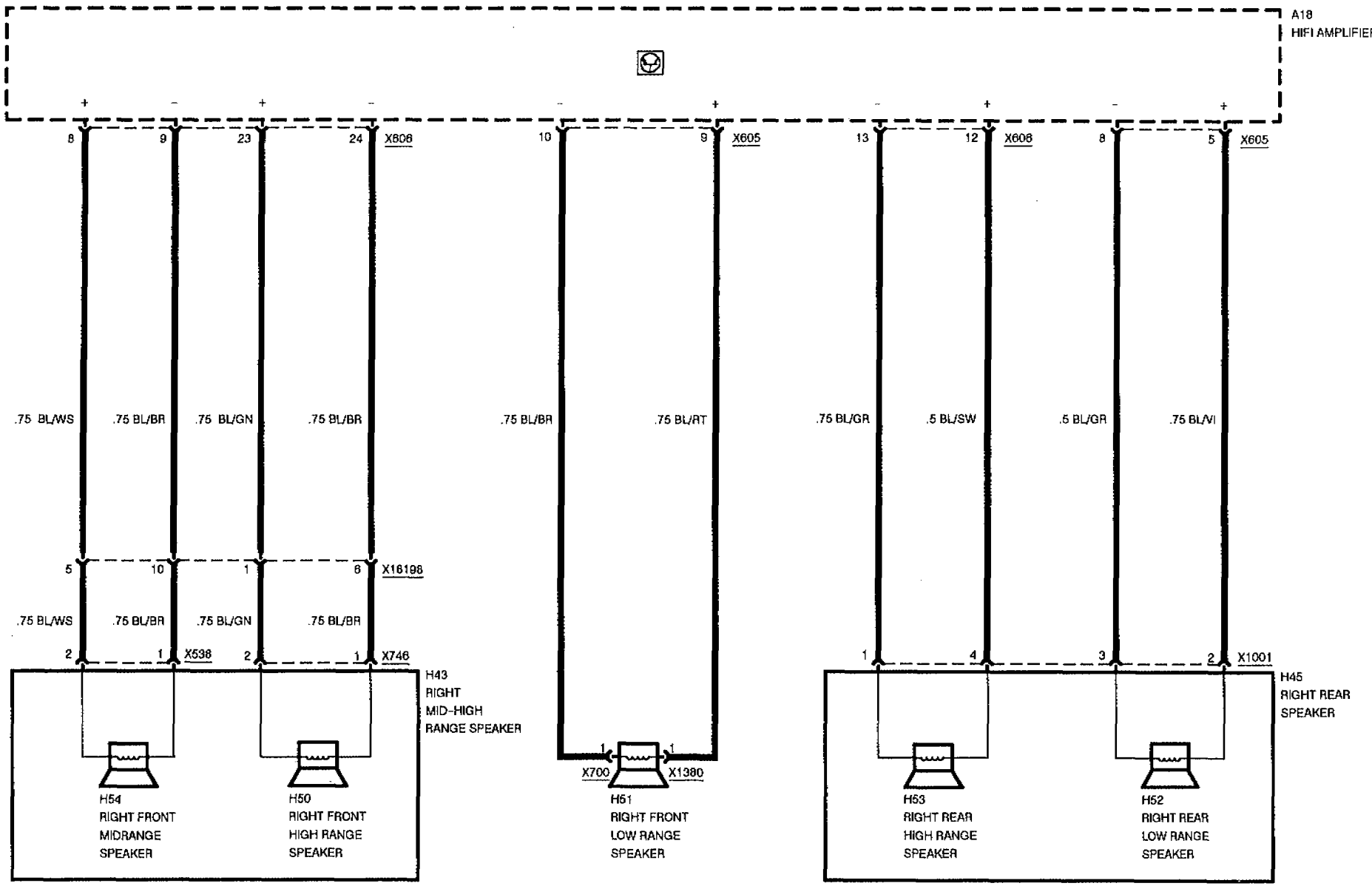
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

LATE PRODUCTION

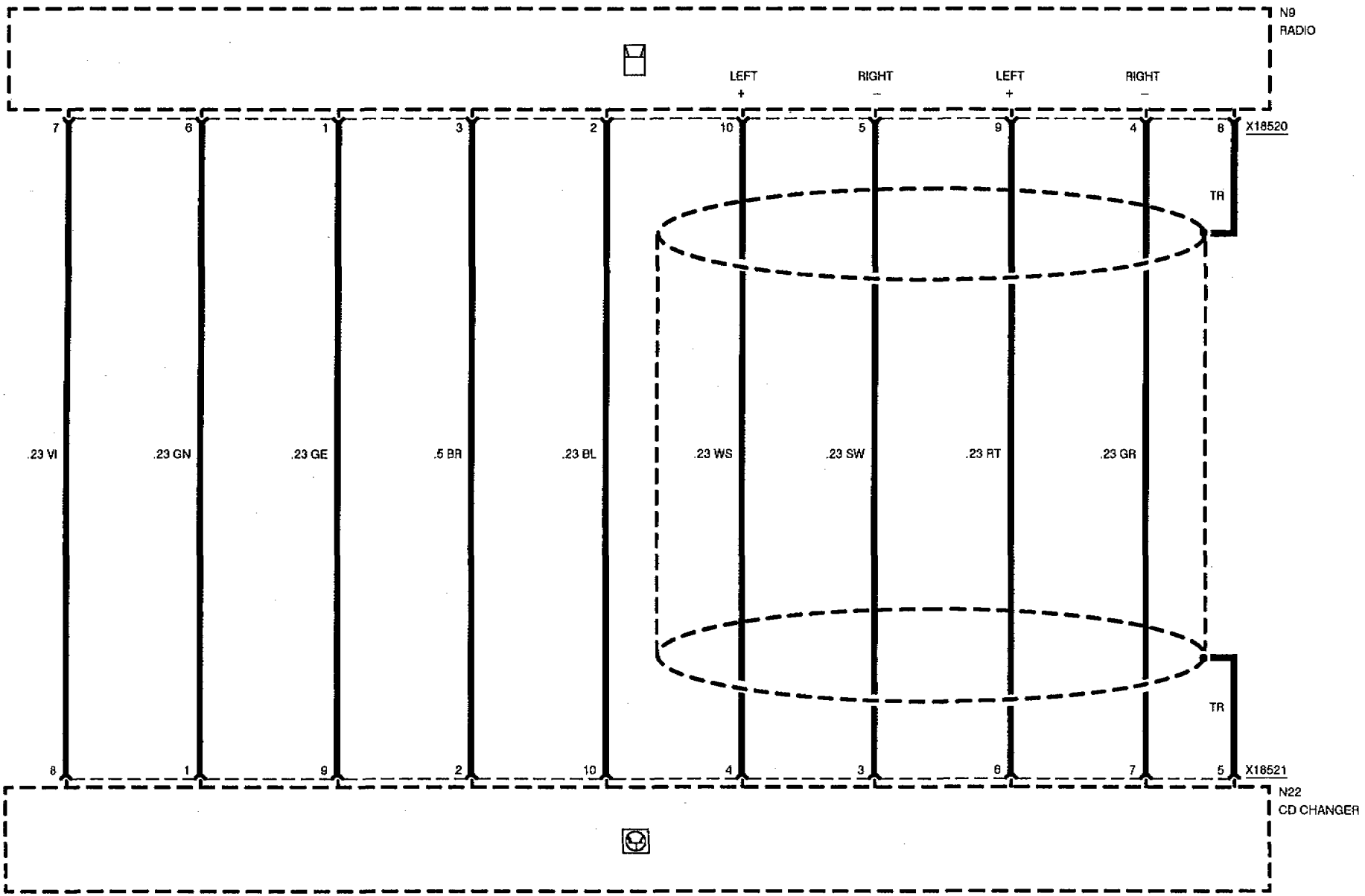



HOT AT ALL TIMES
P90
F9
20A
FRONT POWER DISTRIBUTION BOX
18 X10015
FUSE DETAILS
0670.3
2 X605
A18
HIFI AMPLIFIER
7 26 21 2 X606
.75 GE/WS .75 GE/BR .75 GE/GN .75 GE/BR
5 10 1 6 X18196
.75 GE/WS .75 GE/BR .75 GE/GN .75 GE/BR
2 1 X537
2 1 X753
H42
LEFT
MID-HIGH
RANGE SPEAKER
H55
LEFT FRONT
MIDRANGE
SPEAKER
H59
LEFT FRONT
HIGH RANGE
SPEAKER
8 7
.75 GE/BR .75 GE/RT
1 1
X701 X1361
H58
LEFT FRONT
LOW RANGE
SPEAKER
11 12 X605 10 11 X606
.75 GE/SW .75 GE/SW .75 GE/VI .75 GE/GR
4 3 4 1 X1002
H46
LEFT REAR
SPEAKER
H57
LEFT REAR
LOW RANGE
SPEAKER
H56
LEFT REAR
HIGH RANGE
SPEAKER


A18
HIFI AMPLIFIER
+ - + - - + - + - +
8 9 23 24 X606
10 9 X605
13 12 X606
8 5 X605
.75 BL/WS
.75 BL/BR
.75 BL/GN
.75 BL/BR
.75 BL/BR
.75 BL/RT
.75 BL/GR
.5 BL/SW
.5 BL/GR
.75 BL/VI
5 10 1 6 X16198
.75 BL/WS
.75 BL/BR
.75 BL/GN
.75 BL/BR
2 1 X538
2 1 X746
1 4 3 2 X1001
H43
RIGHT
MID-HIGH
RANGE SPEAKER
H45
RIGHT REAR
SPEAKER
1 1
X700 X1380
H54
RIGHT FRONT
MIDRANGE
SPEAKER
H50
RIGHT FRONT
HIGH RANGE
SPEAKER
H51
RIGHT FRONT
LOW RANGE
SPEAKER
H53
RIGHT REAR
HIGH RANGE
SPEAKER
H52
RIGHT REAR
LOW RANGE
SPEAKER

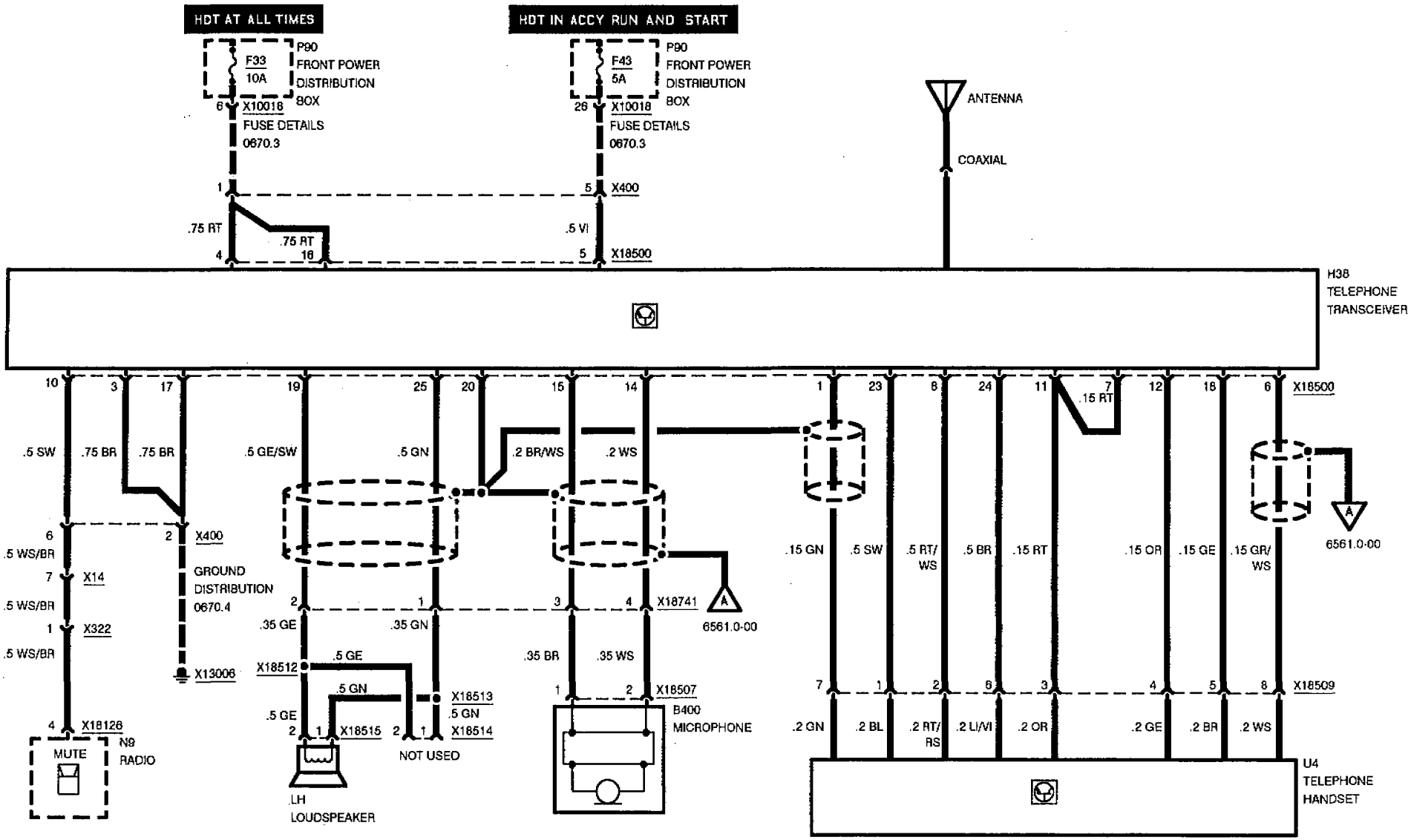
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

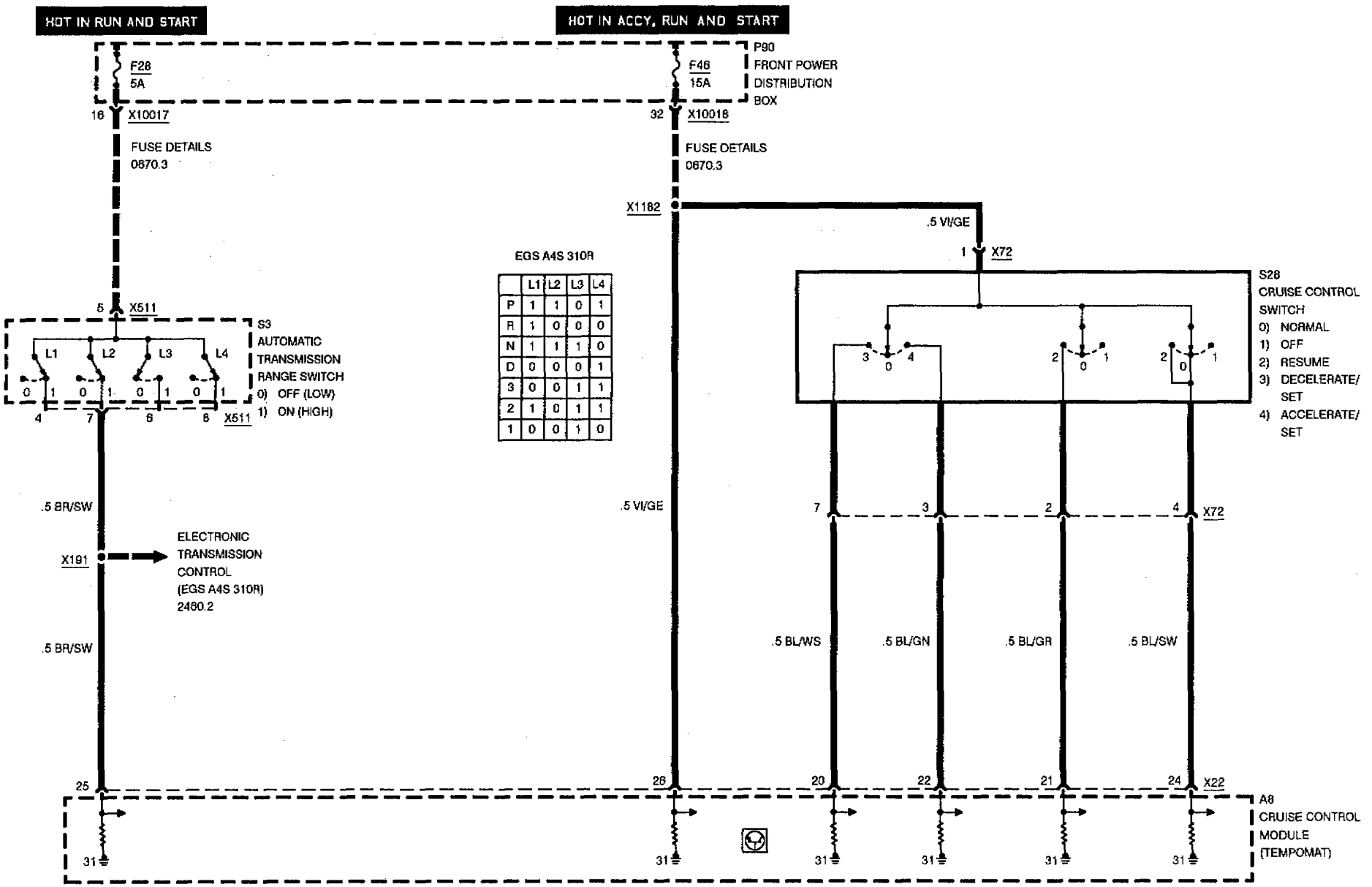


CELLULAR TELEPHONE (PROVISIONS)

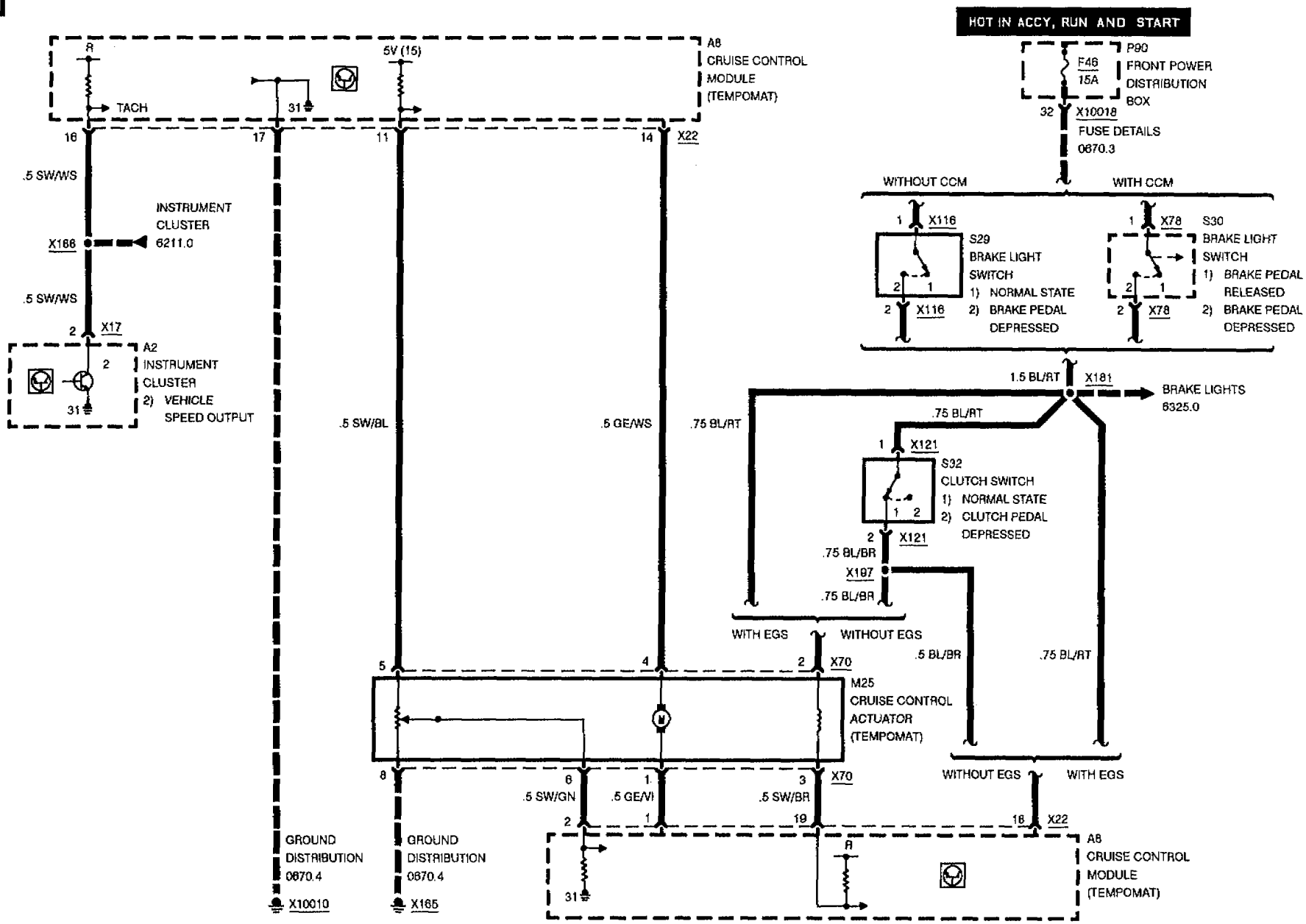
AMPS SYSTEM



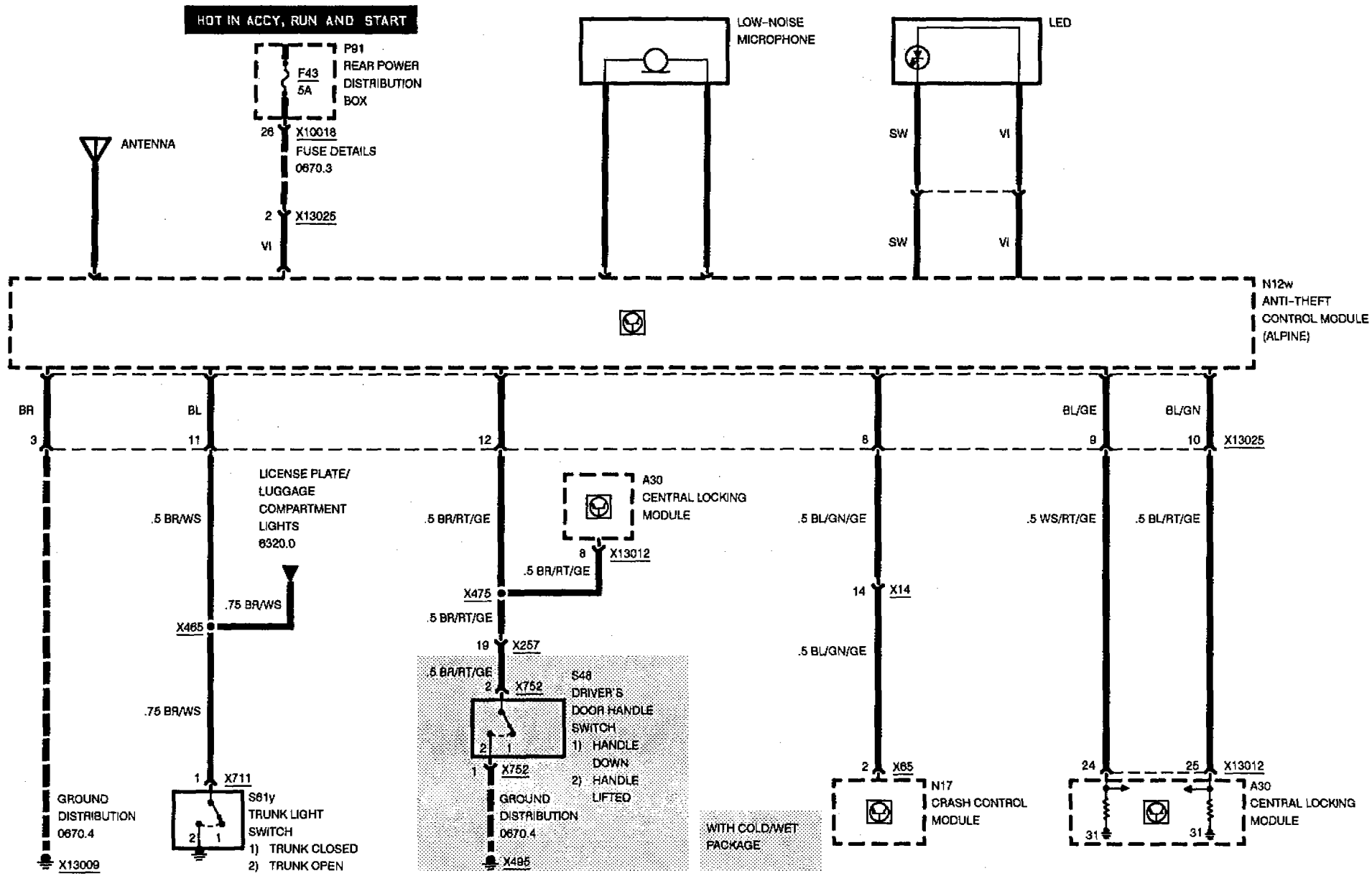
CRUISE CONTROL (TEMPOMAT)



CRUISE CONTROL (TEMPOMAT)



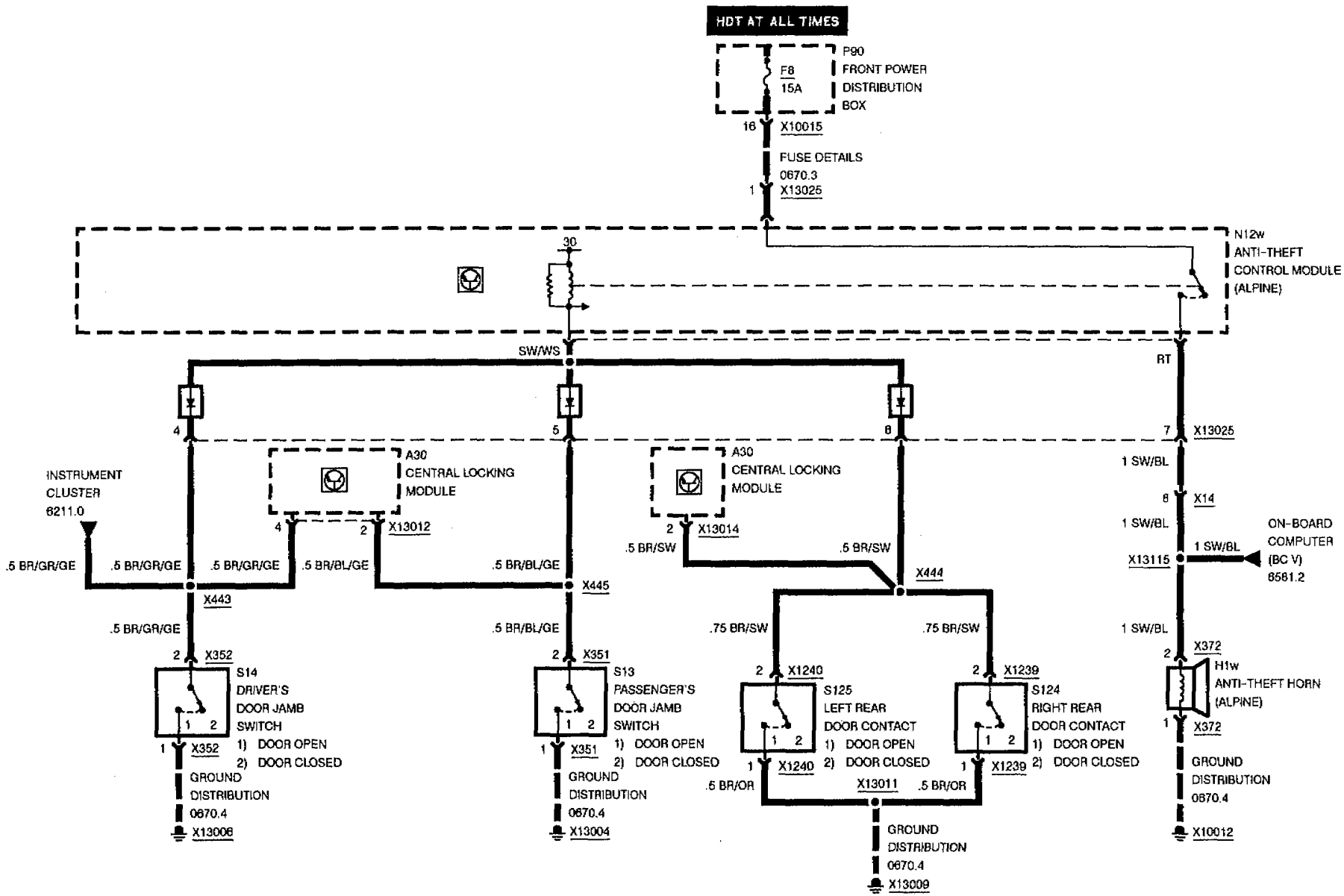
ANTI-THEFT SYSTEM (ALPINE)



ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

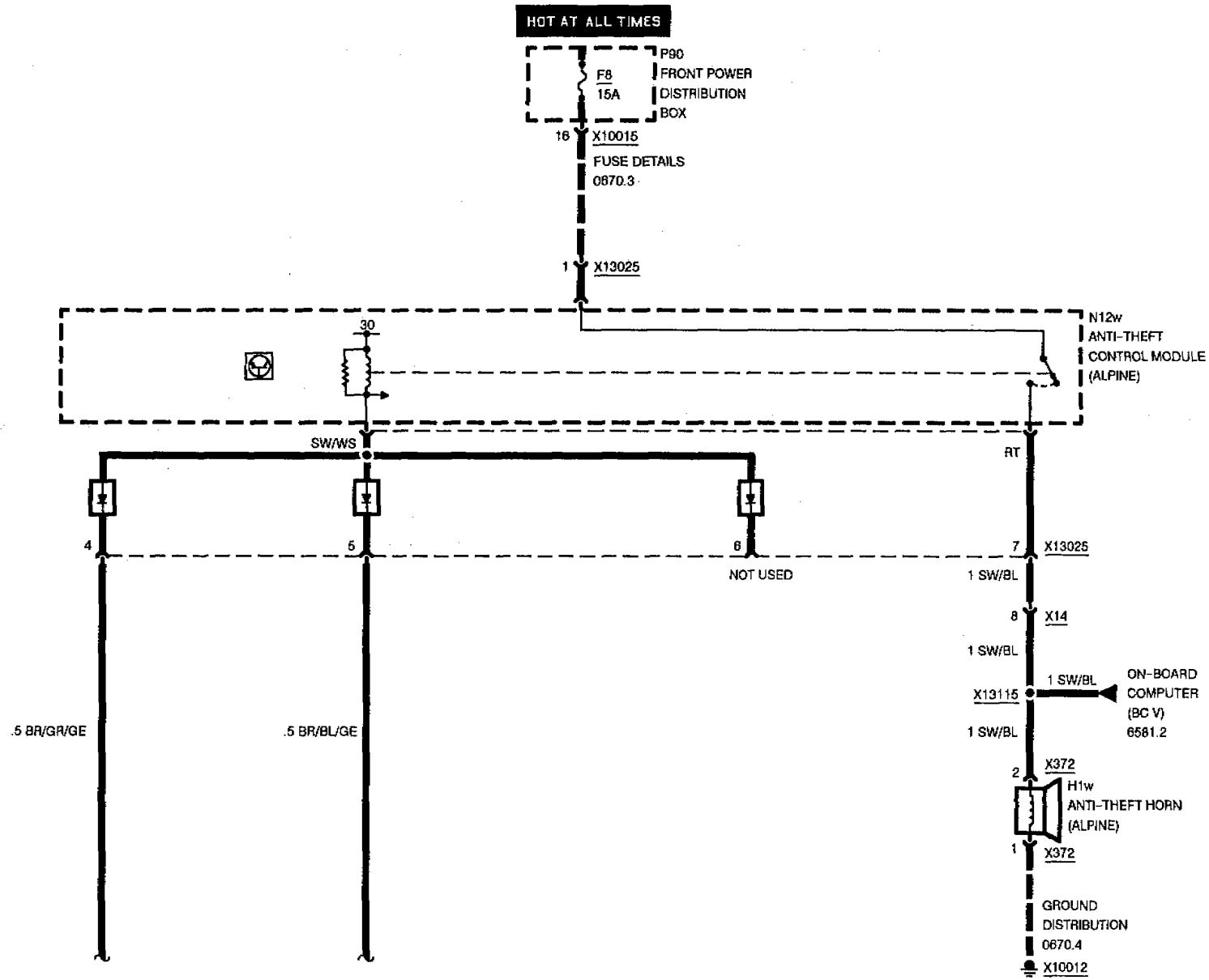
FOUR-DOOR

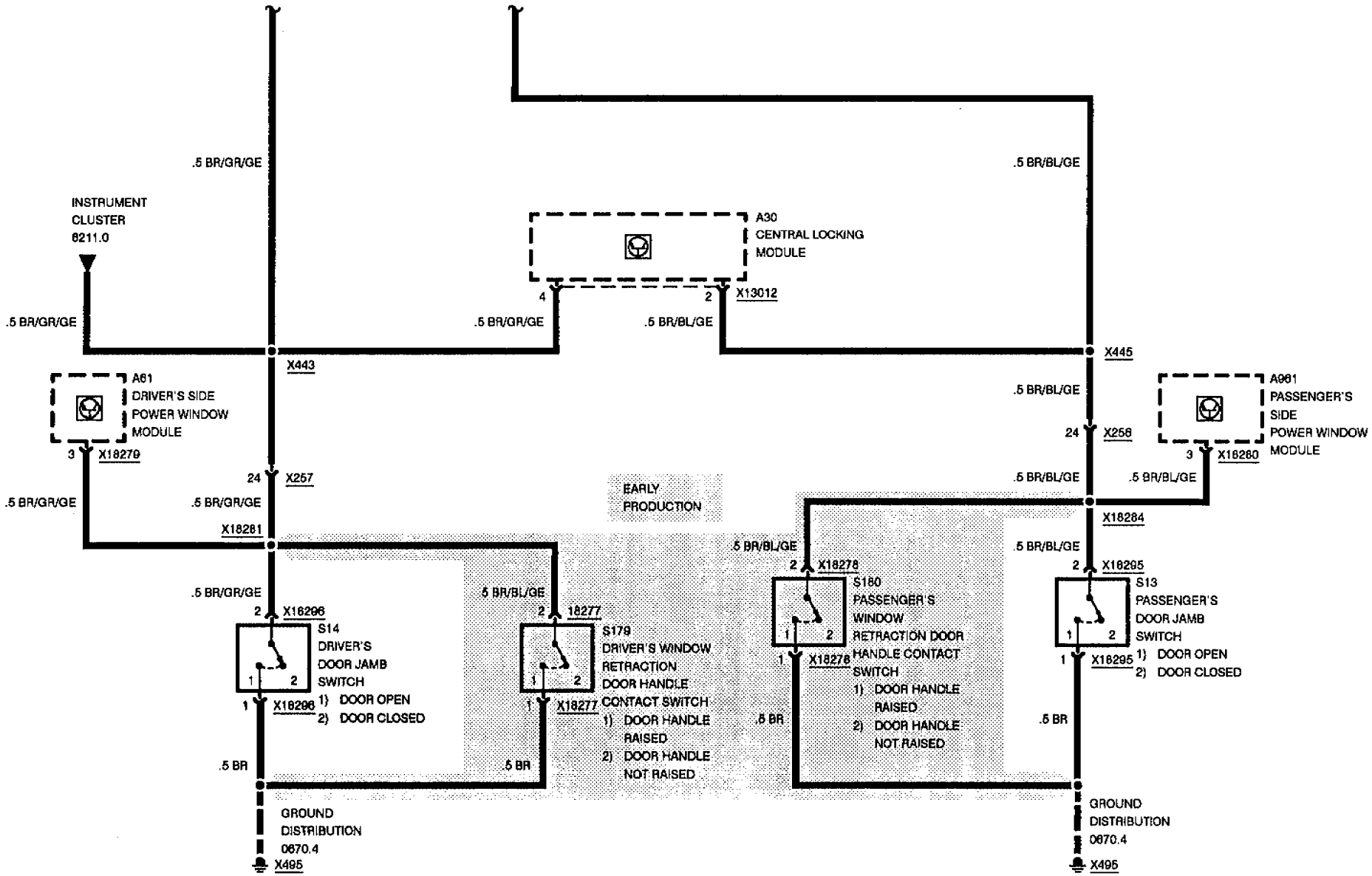


ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

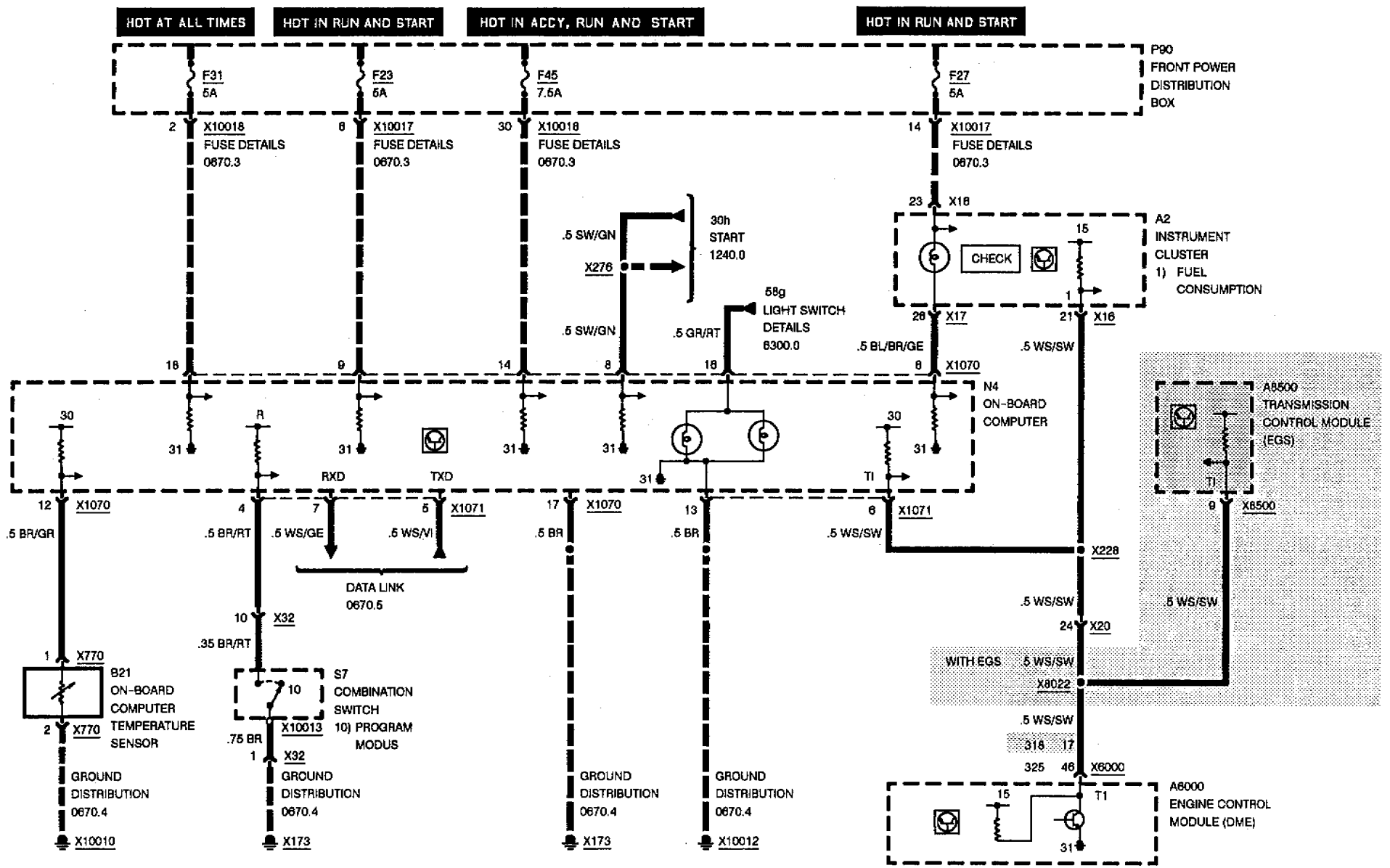
TWO-DOOR




INSTRUMENT CLUSTER 6211.0
.5 BR/GR/GE
.5 BR/BL/GE
A30 CENTRAL LOCKING MODULE
4
2
X13012
X443
X445
A61 DRIVER'S SIDE POWER WINDOW MODULE
3
X18279
24
X257
X256
A961 PASSENGER'S SIDE POWER WINDOW MODULE
3
X18260
EARLY PRODUCTION
X18281
X18284
2
X16296
S14 DRIVER'S DOOR JAMB SWITCH
1
2
X16296
1) DOOR OPEN
2) DOOR CLOSED
18277
S179 DRIVER'S WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH
X18277
1) DOOR HANDLE RAISED
2) DOOR HANDLE NOT RAISED
X18278
S180 PASSENGER'S WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH
1) DOOR HANDLE RAISED
2) DOOR HANDLE NOT RAISED
X16295
S13 PASSENGER'S DOOR JAMB SWITCH
1) DOOR OPEN
2) DOOR CLOSED
.5 BR
GROUND DISTRIBUTION 0670.4
X495

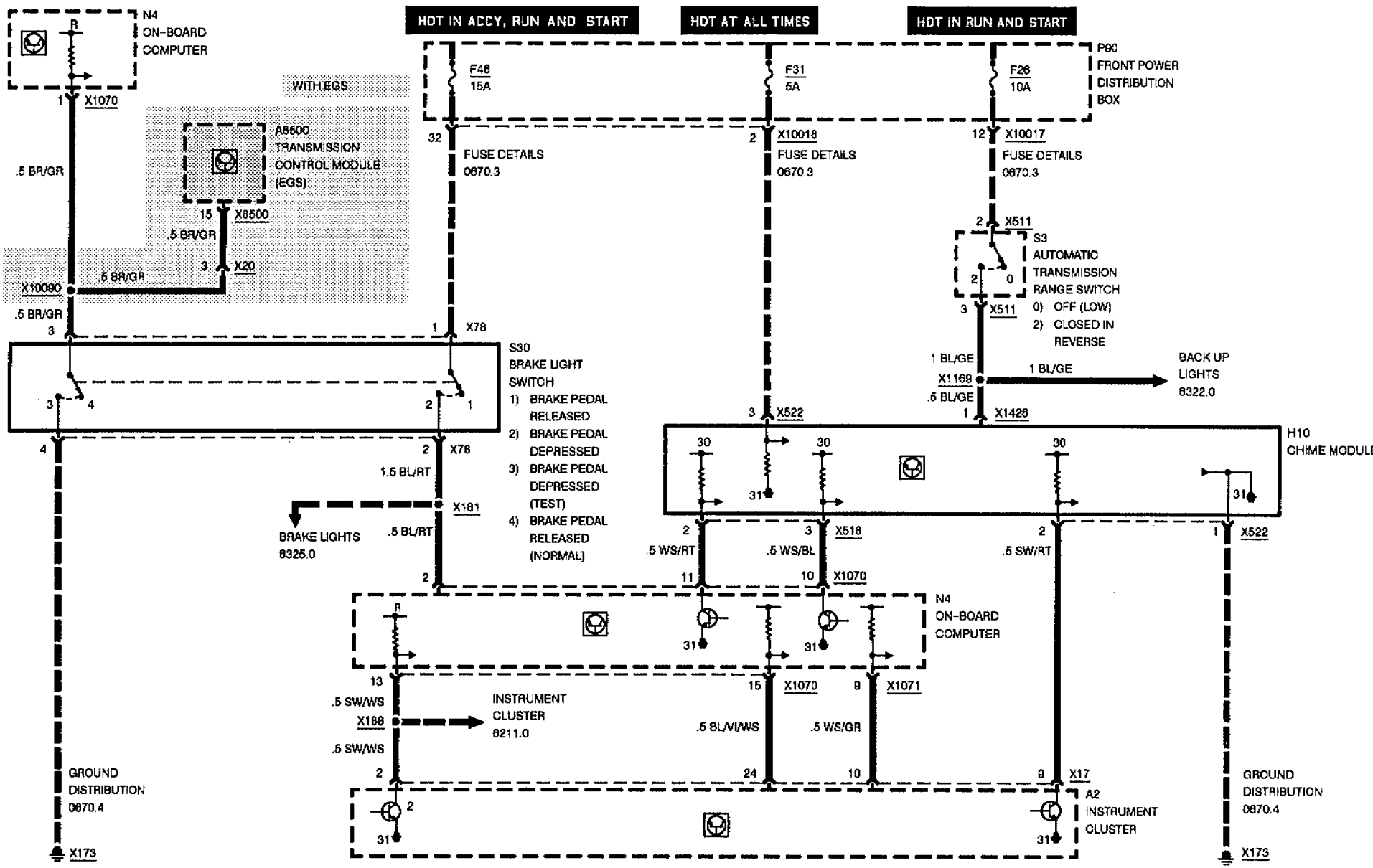
ON-BOARD COMPUTER (BC V)

POWER



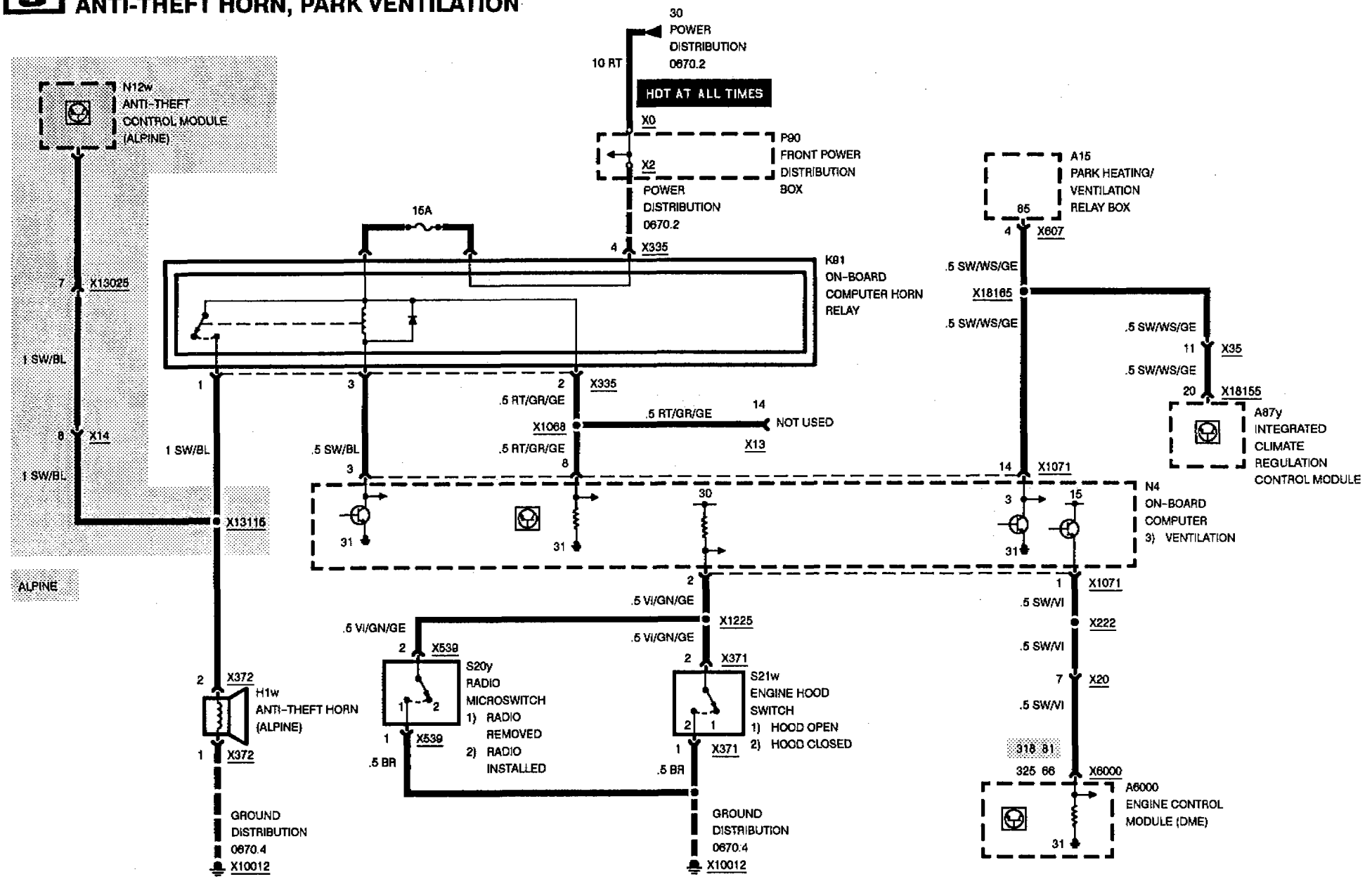
ON-BOARD COMPUTER (BC V)

CHIME, BRAKE LIGHT SWITCH



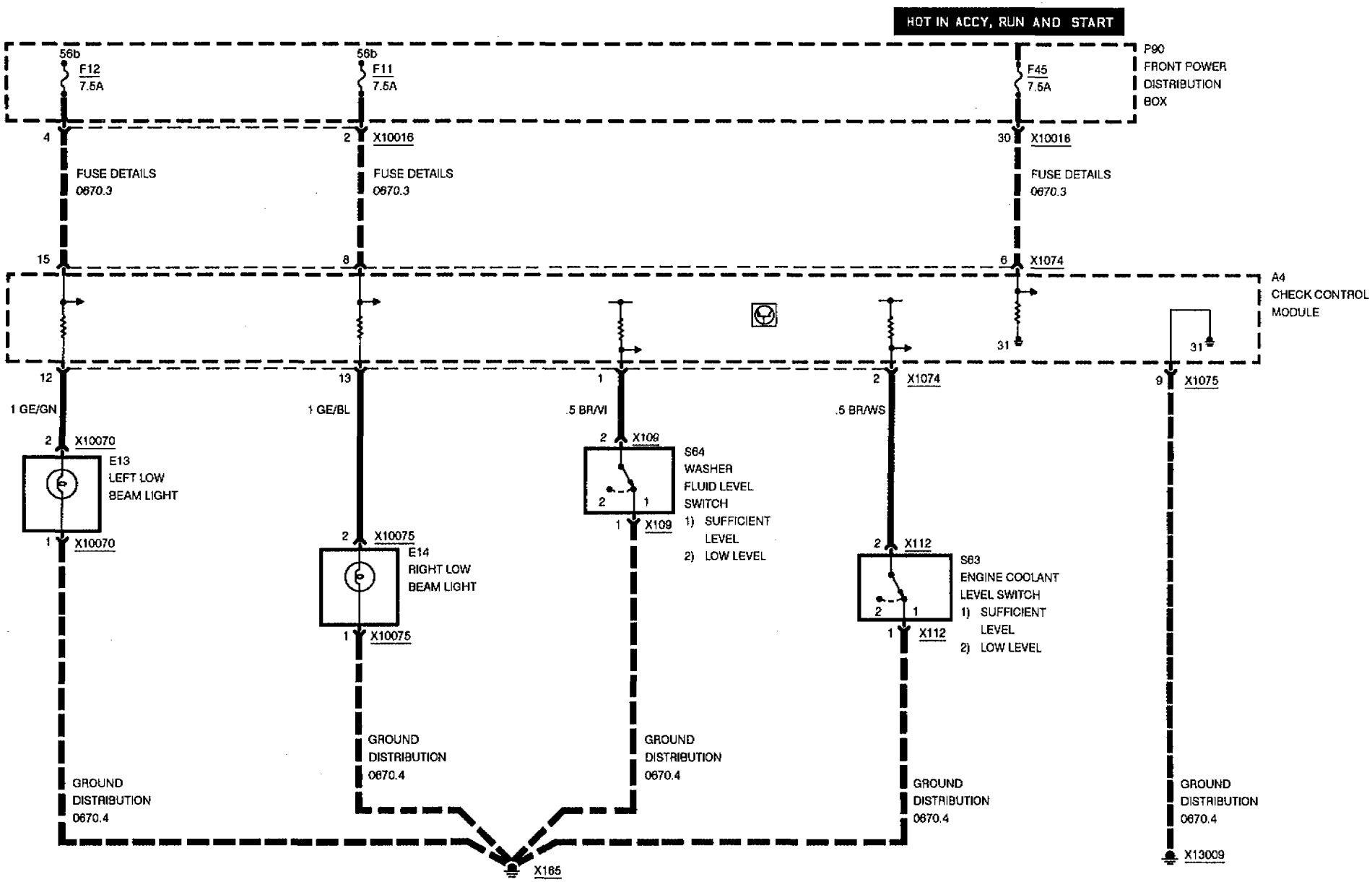
ON-BOARD COMPUTER (BC V)

ANTI-THEFT HORN, PARK VENTILATION



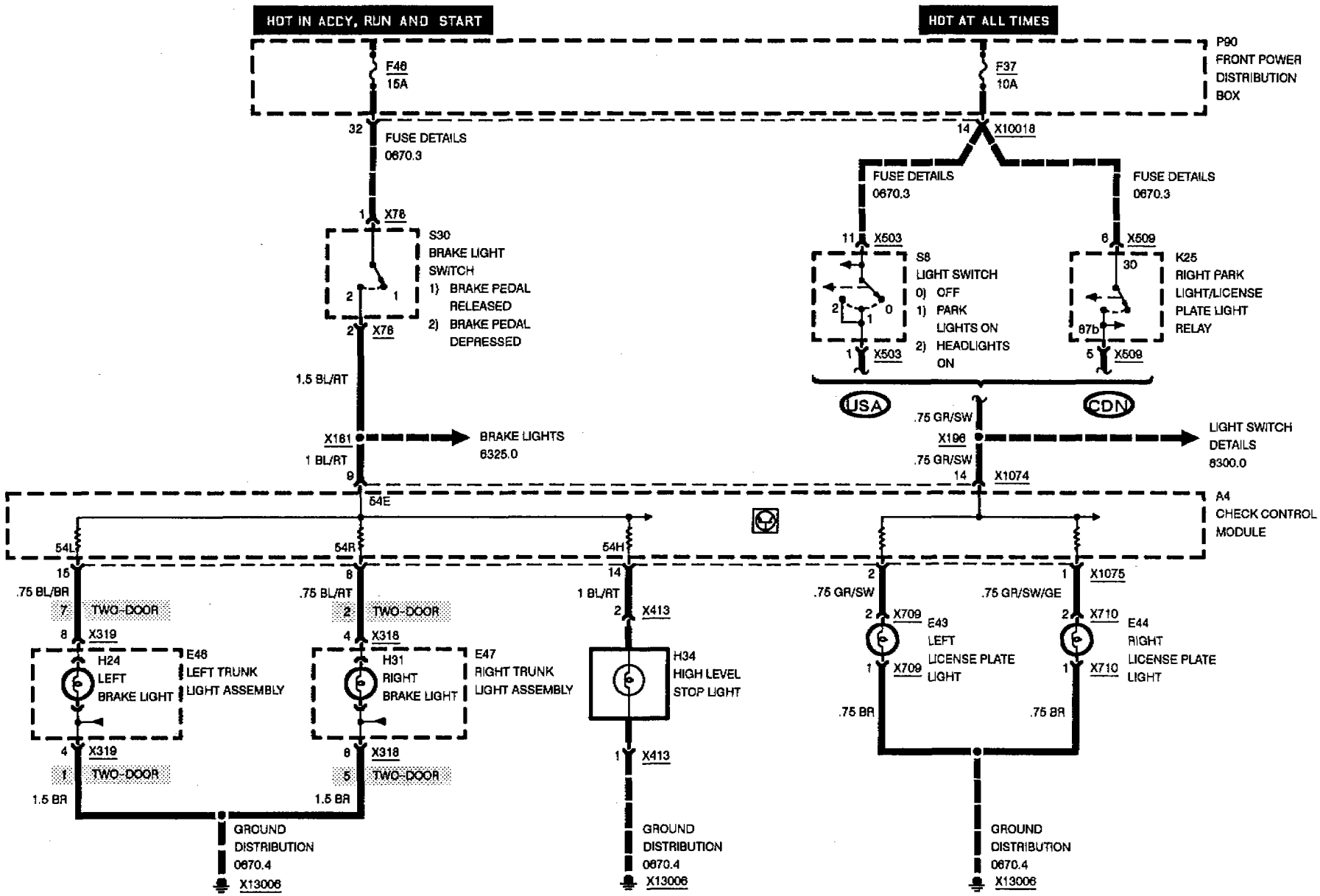
ON-BOARD COMPUTER (BC V)

CHECK CONTROL



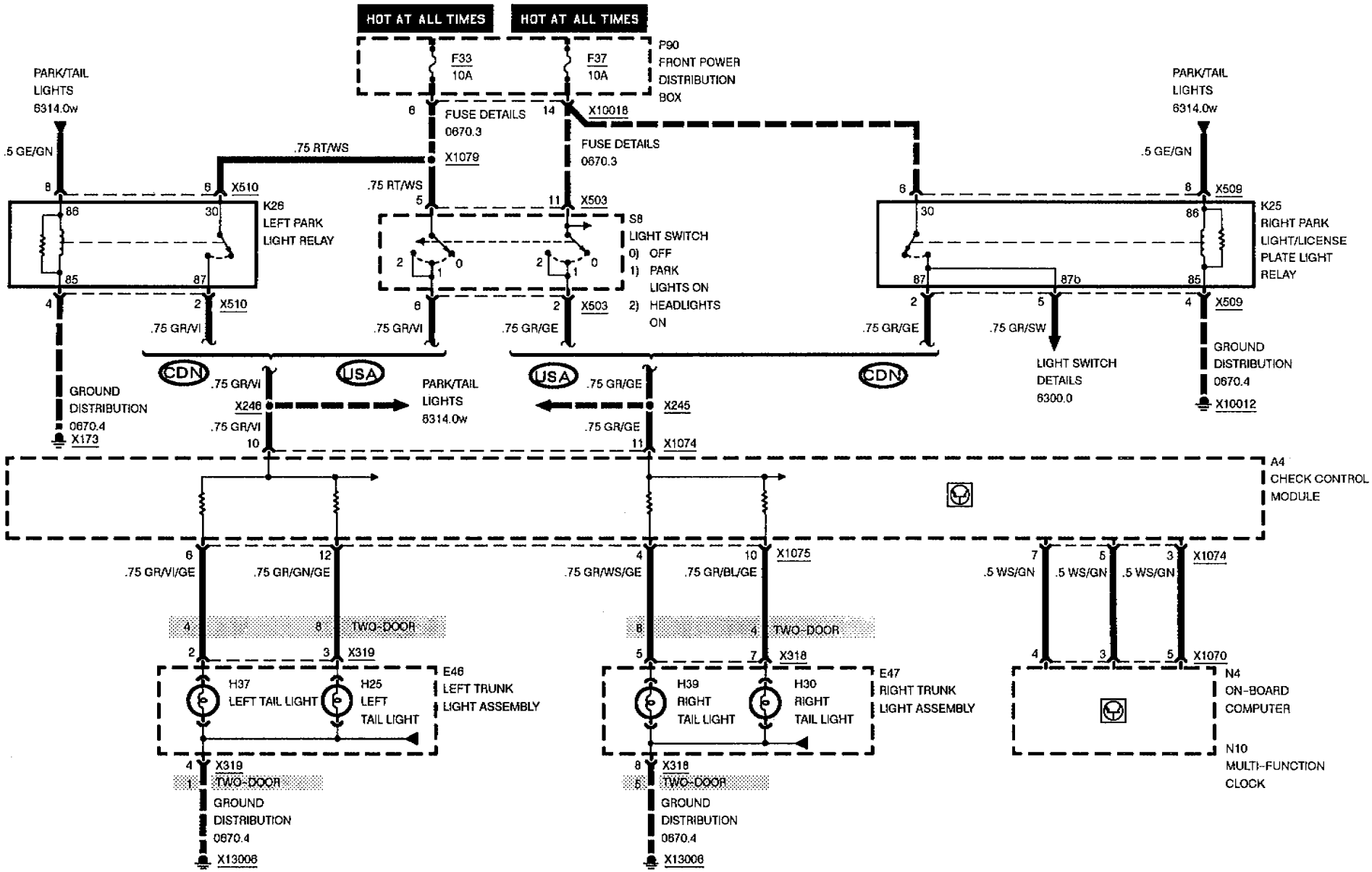
ON-BOARD COMPUTER (BC V)

CHECK CONTROL



ON-BOARD COMPUTER (BC V)

CHECK CONTROL



COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
A2	INSTRUMENT CLUSTER	LH side of dash	01-1
A4	CHECK CONTROL MODULE	Below LH side of dash	00-3
A7	SLIP CONTROL MODULE (ABS)	RH side of dash behind glove box	01-2
A8	CRUISE CONTROL MODULE (TEMPOMAT)	RH side of dash behind glove box	02-1
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	Underside of rear seat LATE PRODUCTION	01-3
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	RH side of dash behind glove box EARLY PRODUCTION	02-1
A15	PARK HEATING/VENTILATION RELAY BOX	Footwell, driver's side	03-3
A18	HIFI AMPLIFIER	In LH forward side of luggage compartment	04-1
A30	CENTRAL LOCKING MODULE	RH side of dash behind glove box	01-2
A35	ON-BOARD DISPLAY	Center of dash	
A51	WIPER/WASHER MODULE	LH side of LH footwell under footrest EARLY PRODUCTION	00-2
A51	WIPER/WASHER MODULE	RH side of dash behind glove box LATE PRODUCTION	
A56	SUNROOF CONTROL ASSEMBLY	Under roof center panel	02-2
A61	DRIVER'S SIDE POWER WINDOW MODULE	In lower LH front door behind trim panel	
A64	WIPER/WASHER MODULE (LOW II)	RH side of dash behind glove box	01-2
A87y	INTEGRATED CLIMATE REGULATION CONTROL MODULE	Center console above	02-3
A961	PASSENGER'S SIDE POWER WINDOW MODULE	In lower RH side of front door behind trim panel	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
A6000	ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box behind trim panel	00-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	Rear RH side of engine compartment in E-Box behind trim panel	00-1	
B1	RIGHT FRONT SPEED SENSOR - ABS	On RH front wheel, above brake caliper	27-3	
B2	LEFT FRONT SPEED SENSOR - ABS	On LH front wheel, above brake caliper	27-3	
B3	RIGHT REAR SPEED SENSOR - ABS	On RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR - ABS	On LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	Below LH side of rear seat	25-1	
B10	VEHICLE SPEED SENSOR	Under rear of car	29-3	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	Center console	02-3	
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	Center console	02-3	
B13	OUTSIDE TEMPERATURE SENSOR	Rear of engine compartment behind RH fresh air cowl	15-3	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell LH side of IHKR Plenum	20-2	
B16	LEFT FRONT BRAKE PAD SENSOR	On LH front wheel, above brake caliper	27-3	
B17	RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	Rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir	10-3	
B21	ON-BOARD COMPUTER TEMPERATURE SENSOR	Front RH side of engine compartment		
B400	MICROPHONE	Center of dash		
B6200	HEATED OXYGEN SENSOR	Under center of car (325)	28-2	
B6200	HEATED OXYGEN SENSOR	Under center of car (318)	29-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B6203	CRANKSHAFT POSITION/RPM SENSOR	Under RH front of car rear of radiator (325)	28-1	
B6203	CRANKSHAFT POSITION/RPM SENSOR	Under front of car (318)	28-3	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine below intake manifold rear of radiator (325)	12-1	
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine (near oil level stick) (325)	11-2	
B6208	CAMSHAFT ACTUATOR	Front of engine		
B6209	HALL EFFECT CAMSHAFT SENSOR	Front of engine		
B6217	HOT FILM AIR MASS METER	Top front of engine		
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (325)	12-1	
B6231	OIL PRESSURE SWITCH	LH side of engine compartment (near oil level stick) (318)	15-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325)	08-2	
B6233	VOLUME AIR FLOW SENSOR	LH side of engine compartment right of LH side shock tower (318)	14-3	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325)	12-1	
B6241	CYL. 1-2 KNOCK SENSOR	Top front of engine (318)		
B6242	CYL. 3-4 KNOCK SENSOR	Top front of engine (318)		
B9508	PRESSURE SWITCH	Front RH side of engine compartment near RH headlight assembly	15-2	
B6241w	CYL. 1-3 KNOCK SENSOR	Top front of engine (325)		
B6242w	CYL. 4-6 KNOCK SENSOR	Top front of engine (325)		
C1	CAPACITOR	In upper LH C-pillar		
C100	CONTACT RING	Top of steering column	19-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
C900	SUPPRESSION FILTER	In upper RH C-pillar	06-3
D100	DATA LINK CONNECTOR	Rear RH side of engine compartment front of battery	05-1
E7	LEFT HEADLIGHT	LH side of body rear end	
E8	RIGHT HEADLIGHT	RH side of body rear end	
E9	REAR DEFOGGER I	In upper RH C-pillar	06-3
E10	REAR DEFOGGER/ANTENNA	In rear window	
E11	LEFT HIGH BEAM LIGHT	Near LH headlight assembly	
E12	RIGHT HIGH BEAM LIGHT	Near RH headlight assembly	
E13	LEFT LOW BEAM LIGHT	Near LH headlight assembly	
E14	RIGHT LOW BEAM LIGHT	Near RH headlight assembly	
E15	LEFT PARK LIGHT	Front of vehicle	
E19	RIGHT PARK LIGHT	Front of vehicle	
E20	UNDERHOOD LIGHT	On underside of engine hood	
E25	FRONT ASHTRAY LIGHT	Center console	22-3
E26	LEFT FOG LIGHT	Under LH front bumper	09-1
E27	RIGHT FOG LIGHT	Under RH front bumper	09-1
E28	FRONT CIGAR LIGHTER	Near gearshift lever	
E29	FRONT CIGAR LIGHTER LIGHT	Center console	
E32	TRUNK COMPARTMENT LIGHT	Rear of luggage compartment	
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	Under roof center panel	02-2

COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

E35	DRIVER'S MAKEUP MIRROR LIGHT	Center of windshield header	
E36	PASSENGER'S MAKEUP MIRROR LIGHT	Center of windshield header	
E39	LEFT REAR INTERIOR LIGHT	In upper LH C-pillar	08-1
E40	RIGHT REAR INTERIOR LIGHT	In upper RH C-pillar	06-3
E42	GLOVE BOX LIGHT	LH side of glove box	
E43	LEFT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	27-1
E44	RIGHT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	27-1
E46	LEFT TRUNK LIGHT ASSEMBLY	In LH rear side of luggage compartment	26-2
E47	RIGHT TRUNK LIGHT ASSEMBLY	In RH rear side of luggage compartment	03-2
E48	DOOR LOCK HEATER	LH front door	
E51	LEFT WASHER JET HEATER	On underside of engine hood	
E52	RIGHT WASHER JET HEATER	On underside of engine hood	
E56	DRIVER'S SEATBACK HEATER	In upper LH front seatback	
E57	DRIVER'S SEAT HEATER	Under LH front seat	
E58	PASSENGER'S SEAT HEATER	Underside of RH front seat	
E59	PASSENGER'S SEATBACK HEATER	In upper RH front seatback	
E82	TRANSMISSION POSITION INDICATOR LIGHT	Center console	
E28y	REAR ASHTRAY LIGHT	Below center console	22-3
E45y	CASSETTE BOX LIGHT	Center of dash	
F56	AUTOMATIC CUT-OUT	LH side of dash	20-1

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
G1	BATTERY	In RH rear side of luggage compartment (325)		
G1	BATTERY	Front RH side of engine compartment (318)		
G5	DRIVER'S AIR BAG GENERATOR	Behind steering wheel		19-2
G6	PASSENGER'S AIR BAG GAS GENERATOR I	RH side of dash		
G6430	B+ JUMP START JUNCTION POINT	Rear RH side of engine compartment back of RH side shock tower		05-1
G6509	GENERATOR	Front LH side of engine compartment		05-2
H2	LEFT HORN	Front of engine compartment		
H3	RIGHT HORN	Front of engine compartment		
H4	RIGHT FRONT TURN LIGHT	Front of vehicle		
H5	RIGHT REAR TURN LIGHT	RH side of body rear end		
H6	LEFT REAR TURN LIGHT	LH side of body rear end		
H7	LEFT FRONT TURN LIGHT	Front of vehicle		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	Front of vehicle		
H9	LEFT FRONT AUXILIARY TURN LIGHT	Front of vehicle		
H10	CHIME MODULE	Below LH side of dash		
H1w	ANTI-THEFT HORN (ALPINE)	Rear RH side of engine compartment back of RH side shock tower		13-3
H24	LEFT BRAKE LIGHT	LH side of body rear end		
H25	LEFT TAIL LIGHT	LH side of body rear end		
H34	HIGH LEVEL STOP LIGHT	At back of rear window shelf		
H38	TELEPHONE TRANSCEIVER	In LH forward side of luggage compartment		04-1

COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0 8500.0
H41	LEFT FRONT SPEAKER	In lower LH A-pillar
H42	LEFT MID-HIGH RANGE SPEAKER	In upper LH front door
H43	RIGHT MID-HIGH RANGE SPEAKER	In upper RH front door
H45	RIGHT REAR SPEAKER	Under rear window shelf
H46	LEFT REAR SPEAKER	Under rear window shelf
H50	RIGHT FRONT HIGH RANGE SPEAKER	In upper RH front door
H51	RIGHT FRONT LOW RANGE SPEAKER	In lower RH A-pillar
H52	RIGHT REAR LOW RANGE SPEAKER	Under rear window shelf
H53	RIGHT REAR HIGH RANGE SPEAKER	Under rear window shelf
H54	RIGHT FRONT MIDRANGE SPEAKER	In upper RH front door
H55	LEFT FRONT MIDRANGE SPEAKER	In upper LH front door
H56	LEFT REAR HIGH RANGE SPEAKER	Under rear window shelf
H57	LEFT REAR LOW RANGE SPEAKER	Under rear window shelf
H58	LEFT FRONT LOW RANGE SPEAKER	In lower LH A-pillar
H59	LEFT FRONT HIGH RANGE SPEAKER	In upper LH front door
K1	STARTER RELAY	Below LH side of dash 19-1
K2	HORN RELAY	Rear LH side of engine compartment in Power Distribution Box 10-1
K4	BLOWER RELAY	Rear LH side of engine compartment in Power Distribution Box 10-1
K9	UNLOADER RELAY, TERMINAL 15	Below LH side of dash 19-1
K10	ABS RELAY	Rear LH side of engine compartment in Power Distribution Box 09-3

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
K11	WIPER RELAY	Below LH side of dash	19–1	
K13	REAR DEFOGGER RELAY	Rear LH side of engine compartment in Power Distribution Box	09–3	
K16	HAZARD FLASHER RELAY	Rear LH side of engine compartment in Power Distribution Box	10–1	
K19	COMPRESSOR CONTROL RELAY	Rear LH side of engine compartment in Power Distribution Box	09–3	
K21	NORMAL SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	10–2	
K22	HIGH SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	10–2	
K25	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	RH side of dash behind glove box		
K26	LEFT PARK LIGHT RELAY	RH side of dash behind glove box		
K46	HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	10–1	
K47	FRONT FOG LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	10–1	
K48	LOW BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	10–1	
K53	WIPER MOTOR RELAY	Below LH side of dash	19–1	
K75	ABS PUMP MOTOR RELAY	Rear LH side of engine compartment in Power Distribution Box	09–3	
K78	COMFORT RELAY	Below LH side of dash		
K91	ON-BOARD COMPUTER HORN RELAY	RH side of dash behind glove box		
K6300	ENGINE CONTROL MODULE RELAY	Rear LH side of engine compartment in Power Distribution Box	09–3	
K6301	CYL. 1-6 FUEL PUMP RELAY	Rear LH side of engine compartment in Power Distribution Box (325)	09–3	
K6303	OXYGEN SENSOR RELAY	in Front Power Distribution Box		
K6301w	FUEL PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box (318)		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
M2	FUEL PUMP	Below RH side of rear seat	24-3
M3	WIPER MOTOR	Rear of engine compartment below center of cowl	14-1
M4	WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	12-2
M5	INTENSIVE WASH PUMP	Front RH side of engine compartment	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	12-3
M9	AUXILIARY FAN MOTOR	Behind front grille behind trim panel	
M12	DRIVER'S DOOR LOCK MOTOR	In lower LH front door behind trim panel	
M13	PASSENGER'S DOOR LOCK MOTOR	In lower RH side of front door behind trim panel	
M14	RIGHT REAR DOOR LOCK MOTOR	In lower RH rear door behind trim panel	
M15	LEFT REAR DOOR LOCK MOTOR	In lower LH rear door behind trim panel	
M16	GAS FILLER LOCK MOTOR	In RH rear side of luggage compartment	03-2
M17	TRUNK LOCK MOTOR	Rear side of luggage compartment	
M20	LEFT REAR WINDOW MOTOR	In lower LH rear door behind trim panel	
M22	RIGHT REAR WINDOW MOTOR	In lower RH rear door behind door panel	
M23	PASSENGER'S WINDOW MOTOR	RH front door behind door panel	17-2
M24	SUNROOF MOTOR	Center of windshield header	
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	Front LH side of engine compartment	09-2
M30	BLOWER MOTOR	Rear of engine compartment behind RH fresh air cowl	15-3
M34	DASH VENT MIXING FLAP MOTOR	Below LH side of dash RH side of steering column	20-3
M36	FRESH AIR FLAP MOTOR	Below RH side of dash center console right	23-1

COMPONENT LOCATION CHART

COMPONENT

PAGE – FIGURE
7100.0 8500.0

M40 ...	RECIRCULATION FLAP MOTOR	Below LH side of dash RH side of steering column	20-3
M50 ...	DRIVER'S SEAT CUSHION TILT MOTOR	Under LH front seat	
M51 ...	DRIVER'S SEAT MOVEMENT MOTOR	Under LH front seat	
M52 ...	DRIVER'S SEAT HEIGHT MOTOR	Under LH front seat	
M53 ...	DRIVER'S SEATBACK RECLINER MOTOR	Under LH front seat	
M58 ...	PASSENGER'S SEATBACK RECLINER MOTOR	Under RH front seat	
M59 ...	PASSENGER'S SEAT HEIGHT MOTOR	Under RH front seat	
M60 ...	PASSENGER'S SEAT MOVEMENT MOTOR	Under RH front seat	
M61 ...	PASSENGER'S SEAT CUSHION TILT MOTOR	Under RH front seat	
M55z ..	DRIVER'S SEAT LUMBAR SUPPORT MOTOR/VALVE	Under LH front seat	
M6510 .	STARTER	Rear LH side of engine compartment	
N3	DIMMER	LH side of dash top of steering column	03-3
N4	ON-BOARD COMPUTER	Center console	03-1
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Footwell, driver's side	03-3
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar	08-1
N9	RADIO	Center console	
N10 ...	MULTI-FUNCTION CLOCK	Center console	
N17 ...	CRASH CONTROL MODULE	Footwell, driver's side	03-3
N21 ...	TWIN RELAY MODULE	Footwell, driver's side	03-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
N22	CD CHANGER	In RH side of luggage compartment		03-2
N12w	ANTI-THEFT CONTROL MODULE (ALPINE)	RH side of dash behind glove box		02-1
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment		05-3
R1	MIXING ACTUATOR	Center console		21-2
R11	BLOWER RESISTORS	Behind center of dashboard LH side of IHKR Plenum		23-2
R6252	THROTTLE POSITION SENSOR	LH side of engine (near oil level stick) (325)		11-2
R6252	THROTTLE POSITION SENSOR	LH side of engine (318)		14-2
S2	IGNITION SWITCH	LH side of dash top of steering column		19-3
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	Center console near gearshift lever		22-2
S4	HORN SWITCH	Top of steering column		19-2
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S7	COMBINATION SWITCH	LH side of steering column		20-1
S8	LIGHT SWITCH	LH side of dash		
S10	FOG LIGHT SWITCH	LH side of dash		
S13	PASSENGER'S DOOR JAMB SWITCH	Rear RH door pillar (with ZVM)		25-2
S14	DRIVER'S DOOR JAMB SWITCH	LH rear door jamb (with ZVM)		25-2
S15	REAR RIGHT DOOR JAMB SWITCH	In lower RH C-pillar		25-2
S16	LEFT REAR DOOR JAMB SWITCH	In lower LH C-pillar		25-2
S17	MIRROR CONTROL SWITCH	In upper LH front door		
S18	HAZARD SWITCH	Center console near gearshift lever		22-2

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S19	UNDERHOOD LIGHT SWITCH	Near RH headlight assembly		
S27	INERTIA SWITCH	In lower RH A-pillar		
S28	CRUISE CONTROL SWITCH	LH side of dash RH side of steering column above		19-3
S29	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim		18-2
S30	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim		18-3
S31	PARK BRAKE SWITCH	Center console on rear of park brake lever		22-3
S32	CLUTCH SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim		18-2
S36	TEMPERATURE SWITCH	Front RH side of engine compartment RH top of radiator		15-2
S37	GLOVE BOX LIGHT SWITCH	RH side of dash behind glove box right		23-3
S41	LEFT REAR WINDOW SWITCH	In lower LH rear door behind trim panel		
S42	RIGHT REAR WINDOW SWITCH	In lower RH rear door behind trim panel		
S47	DRIVER'S DOOR LOCK SWITCH	LH front door in door at key lock assembly		16-3
S48	DRIVER'S DOOR HANDLE SWITCH	LH front door in door at key lock assembly		16-3
S49	PASSENGER'S DOOR LOCK SWITCH	RH front door in door at key lock assembly		
S51	DRIVER'S SEAT, SEAT CONTROL SWITCH	LH side of driver's seat		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever		21-3
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever		03-1
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	Under RH front seat		
S58	DRIVER'S SEAT BELT SWITCH	In LH front seat belt buckle		
S63	ENGINE COOLANT LEVEL SWITCH	Front RH side of engine compartment		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S64	WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir	12-2	
S71	LEFT FRONT IMPACT SENSOR	LH side of engine compartment EARLY PRODUCTION		
S72	RIGHT FRONT IMPACT SENSOR	Front RH side of engine compartment EARLY PRODUCTION	12-3	
S75	BLOWER SWITCH	Center of dash under the control modules		
S77	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor		
S78	PASSENGER'S MAKEUP MIRROR SWITCH	Above RH sun visor		
S82	REAR FOG LIGHT SWITCH	LH side of dash		
S123	ABS PEDAL TRAVEL SENSOR	Rear LH side of engine compartment near brake fluid reservoir	10-3	
S130	CHILD PROTECTION CONTROL (CONSOLE)	Center console		
S179	DRIVER'S WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH	LH front door in door at key lock assembly		
S180	PASSENGER'S WINDOW RETRACTION DOOR HANDLE CONTACT SWITCH	RH front door in door at key lock assembly		
S198	JET HEATER THERMOSWITCH	Front LH side of engine compartment		
S20y	RADIO MICROSWITCH	Center of dash		
S21w	ENGINE HOOD SWITCH	Rear RH side of engine compartment back of RH side shock tower	13-3	
S61y	TRUNK LIGHT SWITCH	Underside of trunk lid left	26-3	
S126y	DRIVER'S POWER WINDOW SWITCH	Center console near gearshift lever	22-1	
S127y	PASSENGER'S POWER WINDOW SWITCH	Center console near gearshift lever	22-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console		
S129y	RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console		
S134y	IHKR CONTROL PANEL	Center of dash		
S8503	PROGRAM SWITCH	Center console		
S8507	KICK-DOWN SWITCH	LH footwell		
S8511	REVERSING LIGHT SWITCH	Under front of car LH side of transmission		
T6151	CYL. 1 IGNITION COIL	Top RH side of engine (325)	13-1	
T6152	CYL. 2 IGNITION COIL	Top RH side of engine (325)	13-1	
T6153	CYL. 3 IGNITION COIL	Top RH side of engine (325)	13-1	
T6154	CYL. 4 IGNITION COIL	Top RH side of engine (325)	13-1	
T6155	CYL. 5 IGNITION COIL	Top RH side of engine (325)	13-1	
T6156	CYL. 6 IGNITION COIL	Top RH side of engine (325)	13-1	
U4	TELEPHONE HANDSET	Below front of console		
V4	DAYTIME RUNNING LIGHTS CODING DIODE	LH side of dash		
X0	B+ JUNCTION POINT	Rear LH side of engine compartment	05-3	
X2	BATTERY B+ START POINT	Rear LH side of engine compartment	05-3	
X3	B+ JUNCTION POINT	Rear LH side of engine compartment	05-3	
X9	B+ JUNCTION POINT	Rear LH side of engine compartment	05-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X11 ...	CONNECTOR (55-PINS, BLACK)	Behind glove box RH side of dash	01-2	00-1
X13 ...	CONNECTOR (30-PINS, BLACK)	LH side of LH footwell under footrest	00-2	00-4
X14 ...	CONNECTOR (30-PINS, WHITE)	Behind LH footwell trim left	00-2	00-4
X16 ...	CONNECTOR (26-PINS, WHITE)	LH side of dash rear of A2 instrument cluster	01-1	00-2
X17 ...	CONNECTOR (26-PINS, BLUE)	LH side of dash rear of A2 instrument cluster	01-1	00-2
X20 ...	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	10-3	06-2
X22 ...	CONNECTOR (26-PINS, BLUE)	RH side of dash behind glove box	02-1	00-2
X31 ...	CONNECTOR (12-PINS, BLACK)	Rear LH side of engine compartment back of LH side shock tower	11-1	02-2
X32 ...	CONNECTOR (12-PINS, WHITE)	LH footwell underside of steering column	18-1	09-1
X33 ...	CONNECTOR (12-PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	18-3	03-5
X35 ...	CONNECTOR (12-PINS, WHITE)	Below LH side of dash RH side of steering column		02-2
X43 ...	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X44 ...	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X45 ...	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X51 ...	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X52 ...	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X53 ...	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X54 ...	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X55 ...	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X56 ...	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X58	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X61	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X63	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X64	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X65	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X69	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	10-3	06-3
X70	CONNECTOR (8-PINS, BLACK)	Front LH side of engine compartment	09-2	02-4
X72	CONNECTOR (8-PINS, WHITE)	LH footwell underside of steering column behind LH footwell trim	18-3	04-5
X74	CONNECTOR (30-PINS, ORANGE)	Underside of rear seat LATE PRODUCTION	01-3	02-5
X74	CONNECTOR (12-PINS, WHITE)	RH side of dash behind glove box EARLY PRODUCTION	02-1	01-3
X75	CONNECTOR (12-PINS, BLUE)	RH side of dash behind glove box EARLY PRODUCTION		01-3
X78	CONNECTOR (4-PINS, BLACK)	LH footwell on brake pedal support bracket behind LH footwell trim	18-3	04-3
X81	CONNECTOR (3-PINS, ORANGE)	LH side of engine compartment		03-4
X82	CONNECTOR (3-PINS, BLACK)	Front of engine compartment on auxiliary fan		08-2
X86	CONNECTOR (3-PINS, ORANGE)	Front RH side of engine compartment on washer fluid reservoir	12-3	03-4
X87	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment RH top of radiator	15-2	08-2
X99	CONNECTOR (9-PINS, BLACK)	Below LH side of dash WIPER MOTOR RELAY, K53		04-6
X105	CONNECTOR (2-PINS, GRAY)	On underside of engine hood		
X106	CONNECTOR (2-PINS, GRAY)	On underside of engine hood		
X107	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	12-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X109	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir	12-2	
X110	CONNECTOR (2-PINS, GRAY)	Rear RH side of engine compartment back of RH side shock tower	13-3	
X111	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir	10-3	
X112	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment RH top of radiator		
X113	CONNECTOR (2-PINS, GRAY)	Above RH front wheel well behind RH front wheel	27-2	
X114	CONNECTOR (2-PINS, GRAY)	Above LH front wheel well behind LH front wheel	27-2	
X116	CONNECTOR (2-PINS, BLACK)	LH footwell on clutch pedal support bracket behind LH footwell trim	18-2	
X118	CONNECTOR (2-PINS, BLACK)	Above LH front wheel well behind LH front wheel	27-2	
X121	CONNECTOR (2-PINS, WHITE)	LH footwell underside of steering column	18-2	
X123	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	12-3	
X128	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment		
X132	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X133	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X137	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment		
X142	CONNECTOR (3-PINS, GRAY)	Under rear of car LH side of on differential	29-2	03-2
X143	CONNECTOR (3-PINS, GRAY)	Under rear of car LH side of on differential	29-3	03-2
X161	CONNECTOR (1-PINS, WHITE)	Near RH headlight assembly		
X163	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	12-2	03-2

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X165	GROUND	Front LH side of engine compartment	06-1	
X173	GROUND	Below LH side of dash	07-3	
X256	CONNECTOR (26-PINS, BLACK)	Ahead of RH front door in lower RH A-pillar	17-2	05-1
X257	CONNECTOR (26-PINS, BLACK)	Ahead of LH front door in lower LH A-pillar	16-2	05-1
X271	CONNECTOR (12-PINS, BLACK)	LH side of dash rear of A2 instrument cluster	01-1	01-3
X272	CONNECTOR (2-PINS, BLACK)	Under roof center panel	21-1	
X273	CONNECTOR (12-PINS, BLACK)	In lower LH B-pillar	25-3	01-2
X274	CONNECTOR (12-PINS, BLACK)	In lower RH B-pillar	25-3	01-2
X275	CONNECTOR (4-PINS, WHITE)	Under LH front seat under carpet	26-1	04-3
X279	CONNECTOR (4-PINS, WHITE)	Under RH front seat	24-2	04-3
X285	CONNECTOR (15-PINS, BLUE)	Behind glove box RH side of dash	01-2	00-3
X292	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X295	CONNECTOR (8-PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	18-3	04-5
X304	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X311	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid left	26-3	05-6
X312	CONNECTOR (2-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	03-2	
X315	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid left	26-3	
X316	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	22-1	09-2
X317	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	22-2	09-2
X318	CONNECTOR (8-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	03-2	02-1

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X319	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment behind LH rear light assembly	26-2	02-1
X320	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	22-2	09-2
X322	CONNECTOR (6-PINS, BLACK)	LH footwell	18-1	07-4
X324	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	22-1	09-2
X333	CONNECTOR (4-PINS, BLACK)	Rear of engine compartment below center of cowl	14-1	09-3
X335	CONNECTOR (4-PINS, BLACK)	RH side of dash behind glove box		01-6
X336	CONNECTOR (6-PINS, WHITE)	Under roof center panel	02-2	10-6
X353	CONNECTOR (2-PINS, BLACK)	In lower RH C-pillar		
X354	CONNECTOR (2-PINS, BLACK)	In lower LH C-pillar		
X355	CONNECTOR (2-PINS, BLACK)	In upper RH C-pillar	06-3	
X356	CONNECTOR (2-PINS, BLACK)	In upper LH C-pillar	08-1	
X371	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment back of RH side shock tower	13-3	
X372	CONNECTOR (2-PINS, GRAY)	Rear RH side of engine compartment back of RH side shock tower	13-3	
X379	CONNECTOR (1-PINS, NATURAL)	In upper LH C-pillar	08-1	
X380	CONNECTOR (1-PINS, NATURAL)	In upper RH C-pillar	06-3	
X381	CONNECTOR (3-PINS, BLACK)	Under roof center panel	21-1	01-1
X382	CONNECTOR (3-PINS, BLACK)	Above RH sun visor	02-2	01-1
X383	CONNECTOR (2-PINS, BLACK)	Under rear of car LH side of on differential	29-3	
X386	CONNECTOR (1-PINS, BLACK)	Center console REAR ASHTRAY LIGHT, E28y		
X388	CONNECTOR (2-PINS, BLACK)	In lower RH A-pillar		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X389	CONNECTOR (2-PINS, GRAY)	Rear LH side of engine compartment		
X390	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box	24-1	
X401	CONNECTOR (1-PINS, BLACK)	Above LH sun visor	21-1	
X402	CONNECTOR (1-PINS, BLACK)	Above RH sun visor	02-2	
X413	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X423	CONNECTOR (1-PINS, NATURAL)	Below center console on rear of park brake lever		
X424	CONNECTOR (1-PINS, BROWN)	In upper LH C-pillar	08-1	
X494	GROUND	Center console	07-2	
X495	GROUND	Behind RH footwell trim	07-1	
X498	GROUND	Center console	07-2	
X503	CONNECTOR (12-PINS, WHITE)	Below LH side of dash		02-2
X504	CONNECTOR (4-PINS, WHITE)	Center console		03-6
X509	CONNECTOR (9-PINS, BLACK)	RH side of dash behind glove box		04-6
X510	CONNECTOR (9-PINS, BLACK)	RH side of dash behind glove box		04-6
X511	CONNECTOR (8-PINS, BLACK)	Center console near gearshift lever	22-2	02-1
X516	CONNECTOR (5-PINS, BLACK)	Center console near gearshift lever	22-2	04-2
X517	CONNECTOR (4-PINS, BLACK)	Below LH side of dash		04-3
X518	CONNECTOR (4-PINS, BLACK)	LH footwell	18-1	04-3
X522	CONNECTOR (3-PINS, WHITE)	LH footwell	18-1	05-6
X523	CONNECTOR (3-PINS, NATURAL)	LH side of dash		05-6

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X531	CONNECTOR (1-PINS, BLACK)	Center console near gearshift lever	21-3	
X532	CONNECTOR (2-PINS, BLACK)	Center console near gearshift lever	21-3	
X537	CONNECTOR (2-PINS, BLACK)	In upper LH front door behind door panel	16-1	
X538	CONNECTOR (2-PINS, BLACK)	RH front door behind door panel	17-2	
X539	CONNECTOR (2-PINS, BLACK)	Center console		
X540	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box right	23-3	
X541	CONNECTOR (1-PINS, WHITE)	RH side of dash behind glove box above	23-3	
X542	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box left	23-3	
X603	CONNECTOR (6-PINS, (---))	Center console		06-1
X604	CONNECTOR (6-PINS, (---))	Center console		06-1
X605	CONNECTOR (12-PINS, BLACK)	In LH forward side of luggage compartment	04-1	03-1
X606	CONNECTOR (12-PINS, WHITE)	In LH forward side of luggage compartment EARLY PRODUCTION	04-1	03-1
X606	CONNECTOR (26-PINS, BLACK)	In LH forward side of luggage compartment LATE PRODUCTION		00-2
X607	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X623	CONNECTOR (4-PINS, BLACK)	In upper LH front door behind door panel	16-1	09-6
X624	CONNECTOR (4-PINS, BLACK)	In upper RH front door behind door panel	17-2	09-6
X625	CONNECTOR (6-PINS, WHITE)	LH front door	16-1	06-1
X638	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat	24-3	
X641	CONNECTOR (6-PINS, BLACK)	RH front door behind door panel	17-3	10-3
X644	CONNECTOR (6-PINS, BLACK)	In lower LH rear door		07-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X645	CONNECTOR (6-PINS, BLUE)	In lower LH rear door		10-4
X646	CONNECTOR (6-PINS, BLACK)	In lower RH rear door behind trim panel		07-3
X647	CONNECTOR (6-PINS, BLUE)	In lower RH rear door behind trim panel		10-4
X651	CONNECTOR (6-PINS, YELLOW)	Center console near gearshift lever	21-3	06-4
X658	CONNECTOR (6-PINS, YELLOW)	Center console near gearshift lever	03-1	06-4
X660	CONNECTOR (6-PINS, BLACK)	LH front door in door at key lock assembly	16-3	07-3
X662	CONNECTOR (6-PINS, GRAY)	Below RH side of dash center console right	23-1	05-5
X663	CONNECTOR (6-PINS, GRAY)	Below RH side of dash		05-5
X669	CONNECTOR (6-PINS, GRAY)	Below LH side of dash RH side of steering column	20-3	05-5
X679	CONNECTOR (2-PINS, WHITE)	Below RH side of rear seat	24-3	
X692	CONNECTOR (3-PINS, BLACK)	Center console	21-2	02-3
X700	CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X701	CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X706	CONNECTOR (2-PINS, BLACK)	Center console	22-3	
X709	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate	27-1	
X710	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate	27-1	
X711	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left	26-3	
X712	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left		
X713	CONNECTOR (2-PINS, BLACK)	Under rear of car LH side of on differential	29-3	
X714	CONNECTOR (2-PINS, GRAY)	In lower LH rear door behind trim panel		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X720	CONNECTOR (2-PINS, GRAY)	In lower RH rear door behind trim panel		
X726	CONNECTOR (2-PINS, (---))	Under LH front seat		
X727	CONNECTOR (2-PINS, (---))	Under LH front seat		
X728	CONNECTOR (2-PINS, (---))	Under LH front seat		
X729	CONNECTOR (2-PINS, (---))	Under LH front seat		
X732	CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet	26-1	04-3
X733	CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet	26-1	04-3
X734	CONNECTOR (2-PINS, (---))	Under RH front seat		
X735	CONNECTOR (2-PINS, (---))	Under RH front seat		
X736	CONNECTOR (2-PINS, (---))	Under RH front seat		
X737	CONNECTOR (2-PINS, (---))	Under RH front seat		
X740	CONNECTOR (4-PINS, BLACK)	Under RH front seat	24-2	04-3
X741	CONNECTOR (4-PINS, BLACK)	Under RH front seat	24-2	04-3
X742	CONNECTOR (2-PINS, YELLOW)	RH front door in door at key lock assembly		
X744	CONNECTOR (2-PINS, GRAY)	RH front door behind door panel	17-2	
X746	CONNECTOR (2-PINS, BLACK)	RH front door behind door panel	17-2	
X747	CONNECTOR (2-PINS, YELLOW)	LH front door in door at key lock assembly	17-1	
X751	CONNECTOR (2-PINS, WHITE)	LH front door in door at key lock assembly	17-1	
X752	CONNECTOR (2-PINS, GRAY)	LH front door in door at key lock assembly	17-1	
X753	CONNECTOR (2-PINS, BLACK)	LH front door	16-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X768	CONNECTOR (2-PINS, WHITE)	In the engine compartment near LH headlight assembly	09-1	
X769	CONNECTOR (2-PINS, WHITE)	In the engine compartment near RH headlight assembly	09-1	
X770	CONNECTOR (2-PINS, YELLOW)	In the engine compartment near LH headlight assembly	06-1	
X771	CONNECTOR (2-PINS, BLACK)	RH side of LH footwell LH side of IHKR Plenum	20-2	
X772	CONNECTOR (2-PINS, WHITE)	Center console	02-3	
X773	CONNECTOR (2-PINS, WHITE)	Center console	02-3	
X774	CONNECTOR (1-PINS, GRAY)	Rear of engine compartment behind RH fresh air cowl		
X778	CONNECTOR (2-PINS, BLACK)	In LH front seat belt buckle		
X779	CHARGING SOCKET	RH side of dash behind glove box left	23-3	
X783	CONNECTOR (2-PINS, ORANGE)	Underside of steering column		
X784	CONNECTOR (12-PINS, BLUE)	RH side of dash behind glove box		01-3
X786	CONNECTOR (2-PINS, BLACK)	UNDERHOOD LIGHT, E20		
X816	CONNECTOR (2-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X817	CONNECTOR (1-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X904	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard LH side of IHKR Plenum	23-2	04-3
X905	CONNECTOR (5-PINS, BLACK)	Behind center of dashboard		08-3
X998	CONNECTOR (4-PINS, BLACK)	Below center console		03-6
X999	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard RH side of IHKR Plenum		04-3
X1001	CONNECTOR (4-PINS, BLACK)	RIGHT REAR SPEAKER, H45		04-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1002	CONNECTOR (4-PINS, (---))	LEFT REAR SPEAKER, H46		04-3
X1014	CONNECTOR (1-PINS, BLACK)	Center console near gearshift lever	21-3	
X1070	CONNECTOR (18-PINS, BLACK)	Center console	21-2	01-5
X1071	CONNECTOR (18-PINS, WHITE)	Center console	21-2	01-5
X1074	CONNECTOR (15-PINS, WHITE)	Below LH side of dash	00-3	00-3
X1075	CONNECTOR (15-PINS, BLACK)	Below LH side of dash	00-3	00-3
X1082	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X1161	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		04-6
X1162	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment near brake fluid reservoir	10-3	
X1165	GROUND	Below LH side of dash	07-3	
X1166	GROUND	Behind RH footwell trim	07-1	
X1178	CONNECTOR (2-PINS, WHITE)	Center console LH side of gearshift selector		
X1181	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X1193	CONNECTOR (2-PINS, BLACK)	Center console RH side of gearshift selector		
X1213	CONNECTOR (2-PINS, BLACK)	Center console	22-3	
X1241	CONNECTOR (2-PINS, WHITE)	Below LH side of rear seat	25-1	
X1242	CONNECTOR (26-PINS, BLACK)	LH side of LH footwell under footrest	00-2	00-2
X1243	CONNECTOR (6-PINS, BLACK)	Center console near gearshift lever	22-1	09-2
X1245	CONNECTOR (1-PINS, BLACK)	Above LH sun visor	21-1	
X1246	CONNECTOR (1-PINS, BLACK)	Above RH sun visor	02-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X1260	CONNECTOR (2-PINS, (---))	LEFT REAR SPEAKER, H46		
X1261	CONNECTOR (2-PINS, (---))	RIGHT REAR SPEAKER, H45		
X1285	CONNECTOR (1-PINS, (---))	In upper LH C-pillar CAPACITOR, C1		
X1380	CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X1381	CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X1426	CONNECTOR (9-PINS, BROWN)	Rear RH side of engine compartment in E-Box		04-6
X6000	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box	00-1	08-1
X6002	CONNECTOR (20-PINS, BLACK)	Rear RH side of engine compartment back of RH side shock tower	05-1	05-4
X6101	CONNECTOR (2-PINS, BLACK)	Top center of engine (318)		
X6101	CONNECTOR (2-PINS, BLACK)	Top center of engine (325)		
X6102	CONNECTOR (2-PINS, BLACK)	Top center of engine (318)		
X6102	CONNECTOR (2-PINS, BLACK)	Top center of engine (325)		
X6103	CONNECTOR (2-PINS, BLACK)	Top center of engine (318)		
X6103	CONNECTOR (2-PINS, BLACK)	Top center of engine (325)		
X6104	CONNECTOR (2-PINS, BLACK)	Top center of engine (318)		
X6104	CONNECTOR (2-PINS, BLACK)	Top center of engine (325)		
X6105	CONNECTOR (2-PINS, BLACK)	Top center of engine (325)		
X6106	CONNECTOR (2-PINS, BLACK)	Top center of engine (325)		
X6120	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment right of LH side shock tower (325)	11-3	
X6120	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment right of LH side shock tower (318)	14-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X6130	CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (325)	08-2	
X6130	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment (near oil level stick) (318)	15-1	
X6131	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment		
X6151	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6152	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6153	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6154	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6155	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6156	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		09-5
X6200	CONNECTOR (4-PINS, BLACK)	Under center of car (325)	28-2	04-4
X6200	CONNECTOR (4-PINS, BLACK)	Under front of car on RH side of transmission (318)	29-1	04-4
X6203	CONNECTOR (3-PINS, BLACK)	Front of engine below intake manifold	05-2	09-4
X6204	CONNECTOR (3-PINS, BLACK)	Front of engine below intake manifold	05-2	09-4
X6205	CONNECTOR (2-PINS, BLACK)	LH side of engine (near oil level stick) (325)	11-2	
X6208	CONNECTOR (2-PINS, BLACK)	Front of engine CAMSHAFT ACTUATOR, B6208		
X6209	CONNECTOR (3-PINS, BLACK)	Front of engine HALL EFFECT CAMSHAFT SENSOR, B6209		09-4
X6217	CONNECTOR (4-PINS, BLACK)	Top front of engine		
X6231	CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (near oil level stick) (325)	12-1	
X6231	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment (near oil level stick) (318)	15-1	
X6232	CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (325)	08-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6233	CONNECTOR (7-PINS, BLACK)	LH side of engine compartment right of LH side shock tower (318)	14-3	05-3
X6236	CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (325)	12-1	
X6241	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6242	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6252	CONNECTOR (2-PINS, BLACK)	LH side of engine (near oil level stick) (325)	11-2	
X6252	CONNECTOR (3-PINS, BLACK)	LH side of engine (318)	14-2	09-4
X6300	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		04-6
X6301	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		04-6
X6303	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		
X6454	GROUND	Rear RH side of engine compartment	06-2	
X6456	GROUND	RH front of engine (325)	08-2	
X6509	CABLE SOCKET ALTERNATOR B+	Front LH side of engine compartment below	05-2	
X6510	CABLE SOCKET STARTER TERMINAL 50	Rear LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET ALTERNATOR TERMINAL 30h	Rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	Rear LH side of engine compartment below intake manifold		
X7509	CABLE SOCKET ALTERNATOR TERMINAL D+	Front LH side of engine compartment below		
X8500	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment in E-Box	00-1	00-1
X8503	CONNECTOR (10-PINS, WHITE)	Center console RH side of gearshift selector	22-1	03-3
X8507	CONNECTOR (1-PINS, BLACK)	Below LH side of dash		
X8511	CONNECTOR (1-PINS, BLACK)	Under front of car LH side of transmission		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X8516	CONNECTOR (2-PINS, BLACK)	Under center of car above		
X8521	CONNECTOR (9-PINS, BLACK)	Under center of car above		10-1
X8524	CONNECTOR (1-PINS, BLACK)	Under front of car LH side of transmission		
X9744	CONNECTOR (6-PINS, BLACK)	In lower RH side of front door behind trim panel		10-3
X9749	CONNECTOR (6-PINS, BLACK)	In lower LH front door behind trim panel		10-3
X9997	CONNECTOR (2-PINS, ORANGE)	Behind steering wheel	19-2	
X10010	GROUND	Behind RH footwell trim	07-1	
X10012	GROUND	Behind RH footwell trim	07-1	
X10013	CONNECTOR (1-PINS, (---))	Top of steering column		
X10015	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10016	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10017	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10018	CONNECTOR (32-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10026	CONNECTOR (6-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X10030	CONNECTOR (5-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10031	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X10033	CONNECTOR (1-PINS, BLACK)	LH side of dash	20-1	
X10034	CONNECTOR (2-PINS, (---))	Power Distribution Box rear LH side of engine compartment		
X10035	CONNECTOR (2-PINS, (---))	Power Distribution Box rear LH side of engine compartment		
X10036	CONNECTOR (2-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10054	CONNECTOR (12-PINS, BLACK)	Below LH side of dash RH side of steering column	20-3	03-5
X10065	CONNECTOR (2-PINS, WHITE)	LH side of LH footwell under footrest		
X10070	CONNECTOR (2-PINS, GRAY)	Near LH headlight assembly		
X10071	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly		
X10074	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly		
X10075	CONNECTOR (2-PINS, GRAY)	Near RH headlight assembly		
X13004	GROUND	In upper RH rear seatback	06-3	
X13006	GROUND	In upper LH rear seatback	08-1	
X13009	GROUND	Behind RH footwell trim	07-1	
X13012	CONNECTOR (26-PINS, WHITE)	Behind glove box RH side of dash	24-1	00-2
X13013	CONNECTOR (5-PINS, BLACK)	Behind glove box RH side of dash	01-2	01-4
X13014	CONNECTOR (4-PINS, BLACK)	Behind glove box RH side of dash	24-1	01-6

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X13016	GROUND	Below LH side of dash	07-3	
X13025	CONNECTOR (12-PINS, BLACK)	RH side of dash behind glove box	02-1	03-5
X13026	CONNECTOR (1-PINS, BLACK)	LH side of dash	20-1	
X18080	CONNECTOR (1-PINS, (---))	In luggage compartment		
X18126	CONNECTOR (17-PINS, BLACK)	Center console behind radio		02-6
X18154	CONNECTOR (26-PINS, BLUE)	Center console		00-2
X18155	CONNECTOR (26-PINS, WHITE)	Center console	21-2	00-2
X18156	CONNECTOR (26-PINS, BLACK)	Center console	21-2	00-2
X18157	CONNECTOR (26-PINS, BLUE)	Center console	02-3	00-2
X18180	CONNECTOR (3-PINS, WHITE)	In RH side of luggage compartment	03-2	10-5
X18196	CONNECTOR (10-PINS, BLACK)	LEFT FRONT HIGH RANGE SPEAKER, H59		
X18198	CONNECTOR (10-PINS, BLACK)	RIGHT FRONT HIGH RANGE SPEAKER, H50		
X18277	CONNECTOR (2-PINS, BLACK)	LH front door in door at key lock assembly		
X18278	CONNECTOR (2-PINS, BLACK)	RH front door in door at key lock assembly		
X18279	CONNECTOR (3-PINS, BLACK)	In lower LH front door behind trim panel		
X18280	CONNECTOR (3-PINS, BLACK)	In lower RH side of front door behind trim panel		
X18295	CONNECTOR (2-PINS, YELLOW)	In lower RH B-pillar behind trim panel		
X18296	CONNECTOR (2-PINS, YELLOW)	In lower LH B-pillar behind trim panel		
X18500	CONNECTOR (25-PINS, (---))	In LH forward side of luggage compartment	04-1	07-2
X18507	CONNECTOR (2-PINS, (---))	Center console		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18509	CONNECTOR (8-PINS, (---))	Center console		
X18515	CONNECTOR (2-PINS, (---))	Center console		
X18520	CONNECTOR (10-PINS, (---))	Center console RADIO, N9		03-3
X18521	CONNECTOR (10-PINS, (---))	In LH forward side of luggage compartment CD CHANGER, N22		07-1
X18723	GROUND	Below LH side of dash		
X18741	CONNECTOR (4-PINS, (---))	Center of dash MICROPHONE, B400		09-6
Y1	ABS HYDRAULIC UNIT	Rear LH side of engine compartment back of LH side shock tower	11-1	
Y2	AIR CONDITIONING COMPRESSOR	Front of engine		
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		
Y19	SHIFT-LOCK	Center console RH side of gearshift selector		
Y6101	CYL. 1 FUEL INJECTION VALVE	Top center of engine (325)	13-2	
Y6101	CYL. 1 FUEL INJECTION VALVE	Top center of engine (318)		
Y6102	CYL. 2 FUEL INJECTION VALVE	Top center of engine (325)	13-2	
Y6102	CYL. 2 FUEL INJECTION VALVE	Top center of engine (318)		
Y6103	CYL. 3 FUEL INJECTION VALVE	Top center of engine (325)	13-2	
Y6103	CYL. 3 FUEL INJECTION VALVE	Top center of engine (318)		
Y6104	CYL. 4 FUEL INJECTION VALVE	Top center of engine (325)	13-2	
Y6104	CYL. 4 FUEL INJECTION VALVE	Top center of engine (318)		
Y6105	CYL. 5 FUEL INJECTION VALVE	Top center of engine (325)	13-2	

COMPONENT LOCATION CHART

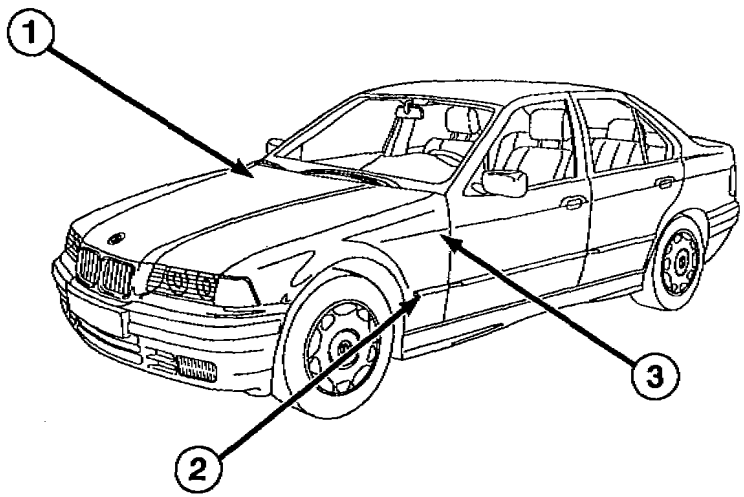
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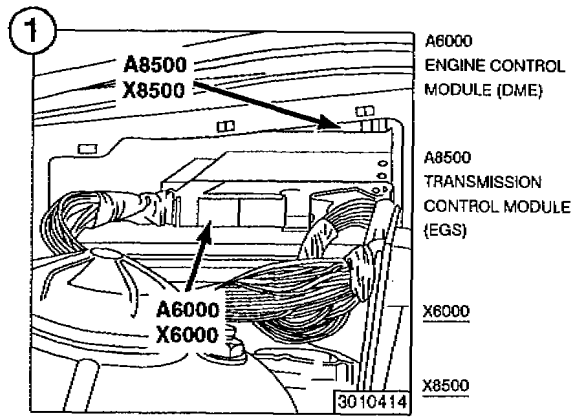
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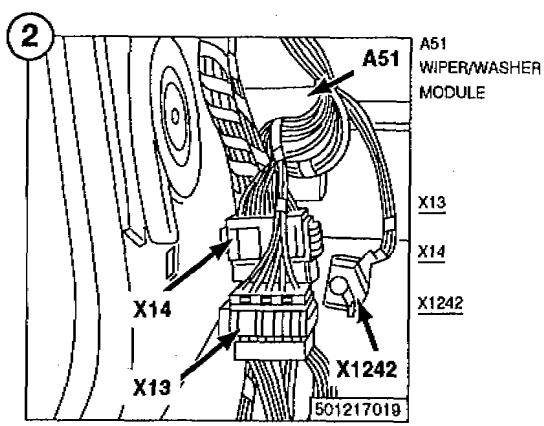
Y6106	CYL. 6 FUEL INJECTION VALVE	Top center of engine (325)	13-2
Y6120	EVAPORATIVE EMISSION VALVE	Front LH side of engine compartment right of LH side shock tower (325)	11-3
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment right of LH side shock tower (318)	14-3
Y6130	IDLE SPEED CONTROL VALVE	RH front of engine below intake manifold (325)	08-2
Y6130	IDLE SPEED CONTROL VALVE	LH side of engine compartment (near oil level stick) (318)	15-1
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	Rear LH side of engine compartment	

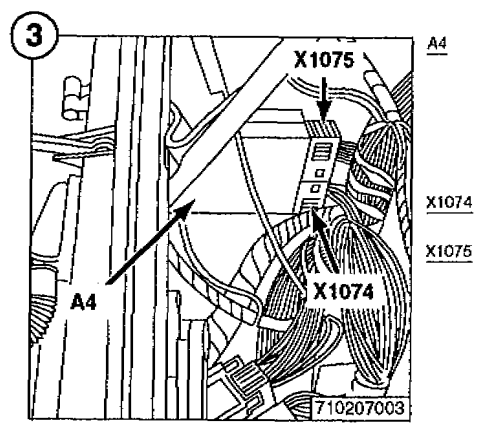
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



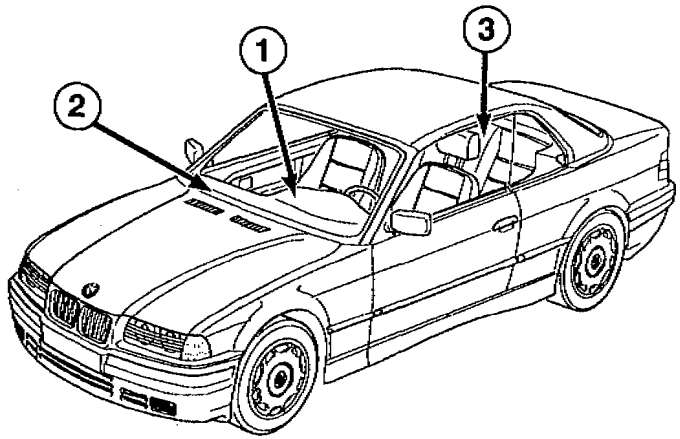


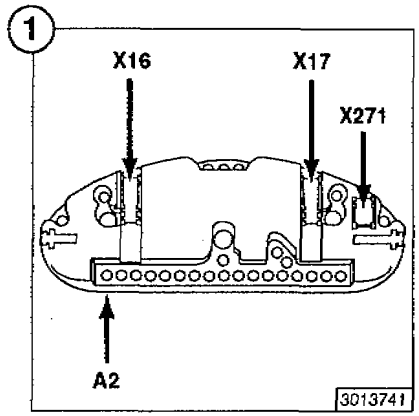




COMPONENT LOCATION VIEWS

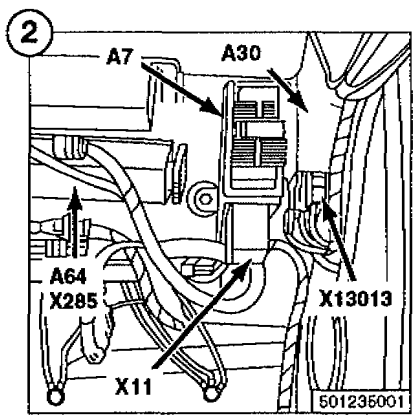
ELECTRICAL CONTROL MODULE LOCATIONS





A2
INSTRUMENT CLUSTER

X16
X17
X271

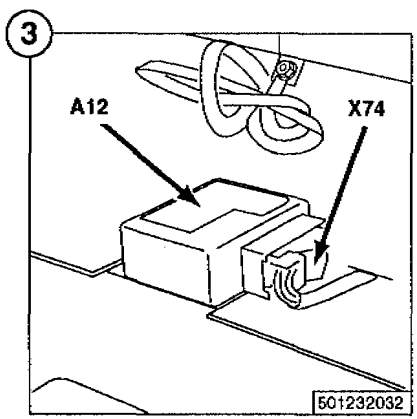


A7
SLIP CONTROL MODULE (ABS)

X11
X285
X13013

A30
CENTRAL LOCKING MODULE

A64
WIPER/WASHER MODULE (LOW II)

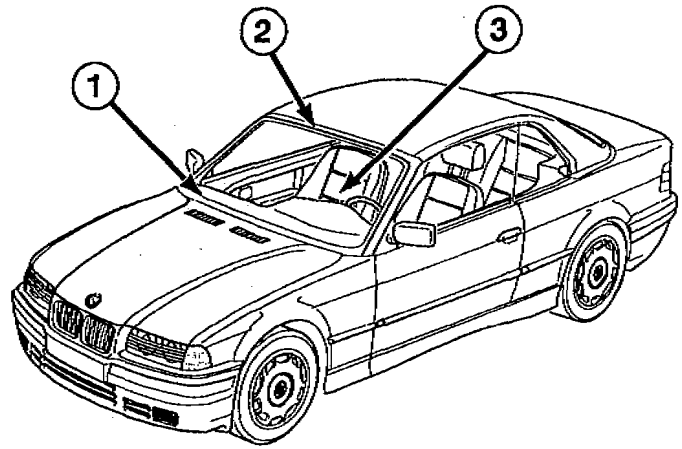


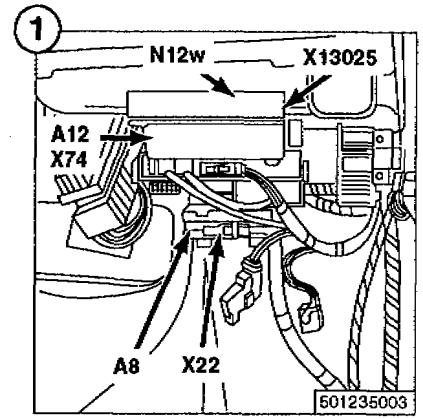
A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X74

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

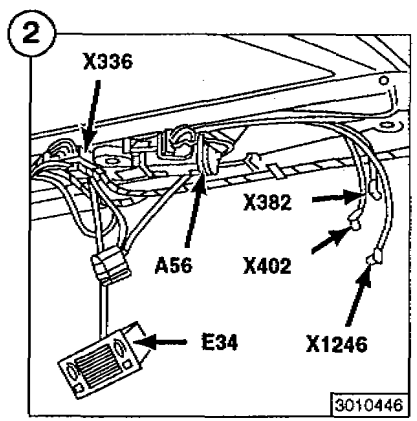




A8 — X22
CRUISE CONTROL MODULE (TEMPOMAT) — X74
X13025

A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

N12w
ANTI-THEFT CONTROL MODULE (ALPINE)



A56
SUNROOF CONTROL ASSEMBLY

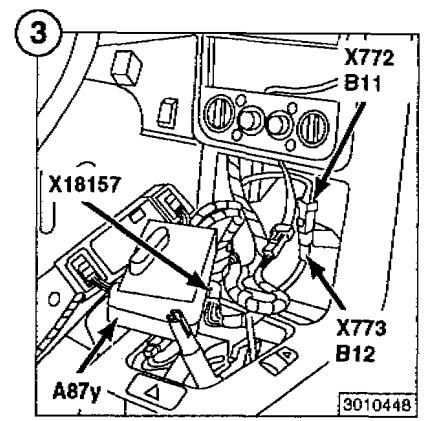
E34
FRONT DOME LIGHT/ MAP READING ASSEMBLY

X336

X382

X402

X1246



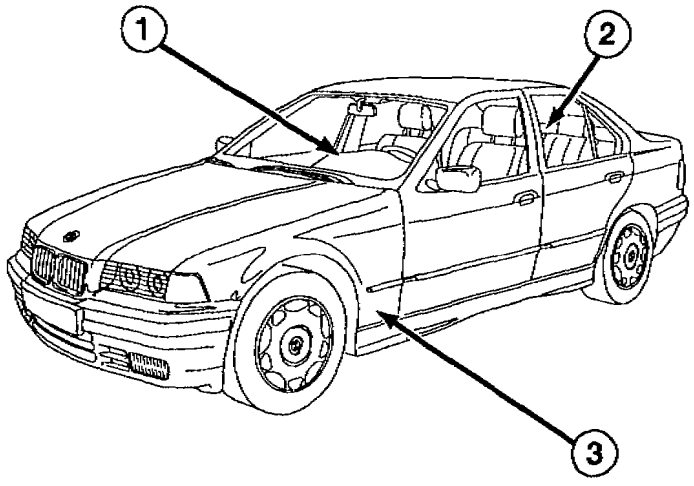
A87y — X772
INTEGRATED CLIMATE REGULATION CONTROL MODULE — X773
X18157

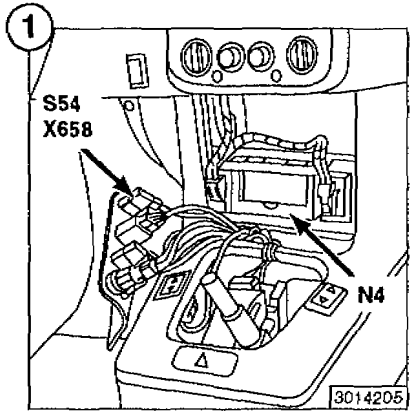
B11
LH HEAT EXCHANGER TEMPERATURE SENSOR

B12
RH HEAT EXCHANGER TEMPERATURE SENSOR

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

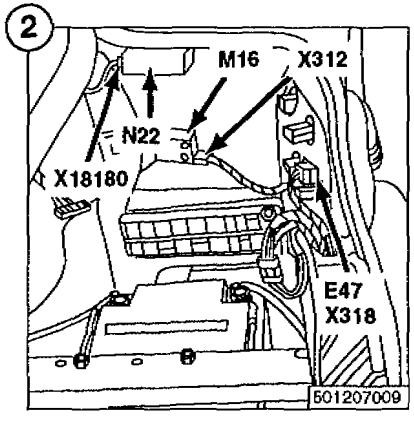




N4
ON-BOARD
COMPUTER

S54
PASSENGER S
SEAT
SEAT HEATER
SWITCH

X658



E47
RIGHT TRUNK
LIGHT ASSEMBLY

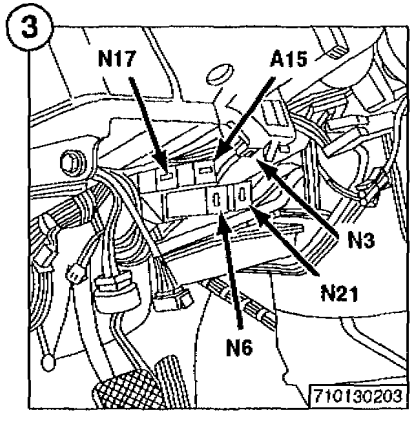
M16
GAS FILLER
LOCK MOTOR

N22
CD CHANGER

X312

X318

X18180



A15
PARK HEATING/
VENTILATION
RELAY BOX

N3
DIMMER

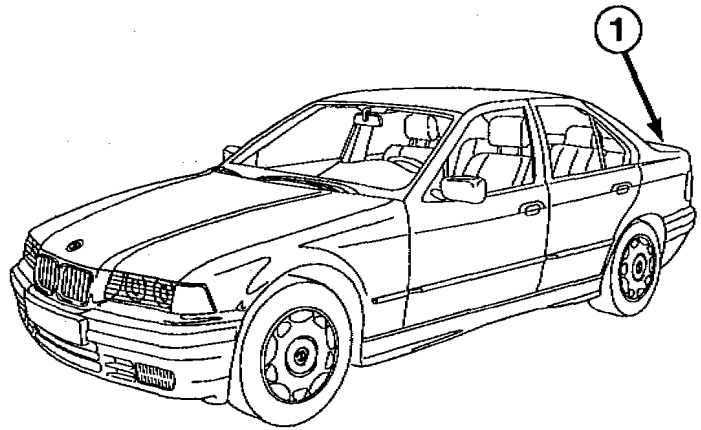
N6
HEADLIGHT/
FOGLIGHT
CLEANING
MODULE (SRA)

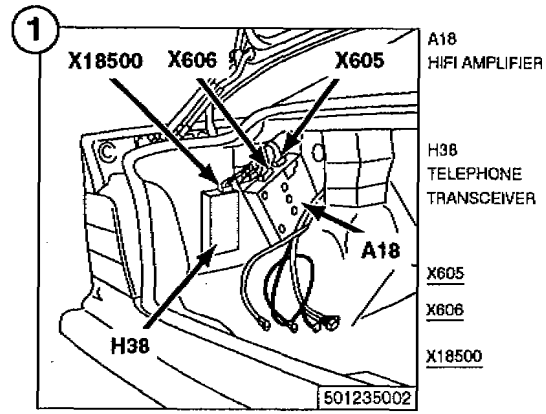
N17
CRASH CONTROL
MODULE

N21
TWIN RELAY
MODULE

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS





A18
HIFI AMPLIFIER

H38
TELEPHONE
TRANSCEIVER

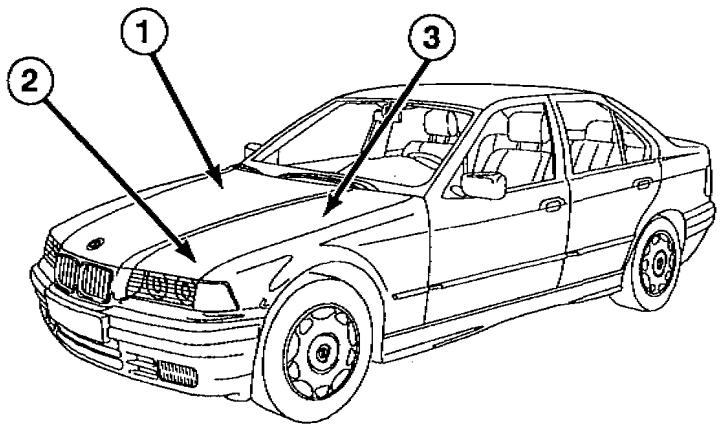
X605

X606

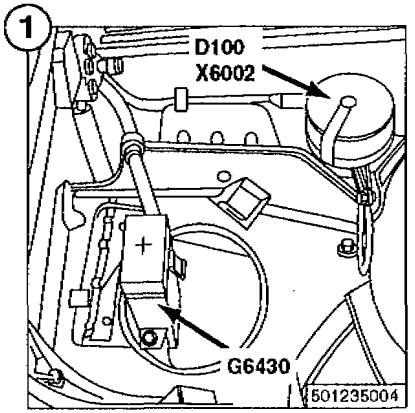
X18500

COMPONENT LOCATION VIEWS

B(+)



1

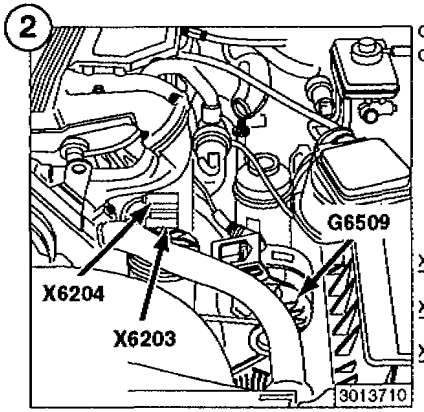


D100
DATA LINK
CONNECTOR

G6430
B+
JUMP START
JUNCTION POINT

X6002

2



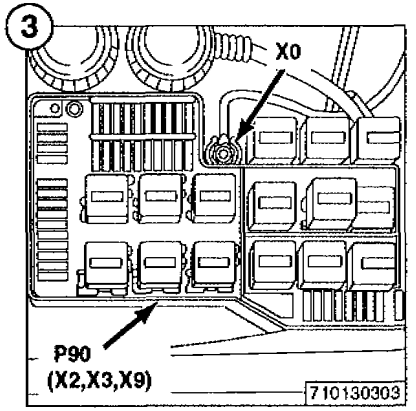
G6509
GENERATOR

X6203

X6204

X6509

3



P90
FRONT POWER
DISTRIBUTION
BOX

X3
B+
JUNCTION POINT

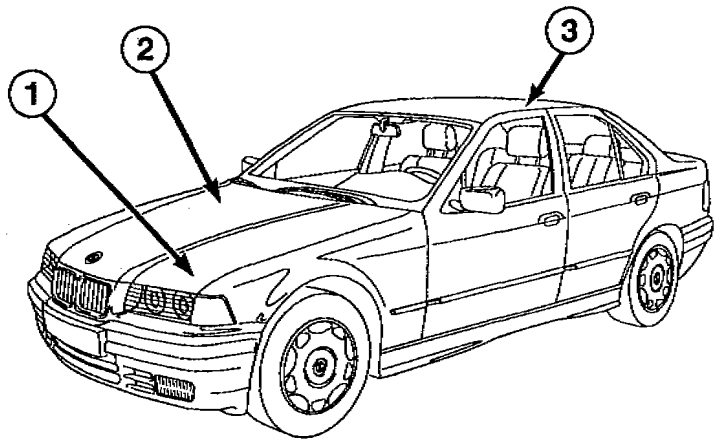
X0
B+
JUNCTION POINT

X9
B+
JUNCTION POINT

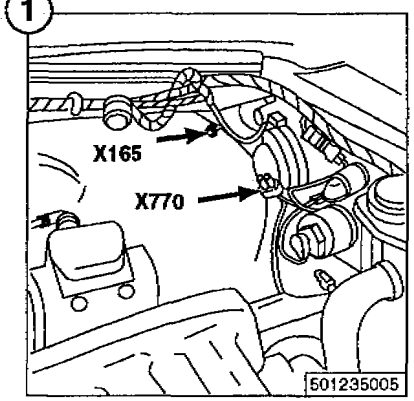
X2
BATTERY
B+ START POINT

COMPONENT LOCATION VIEWS

B(-)



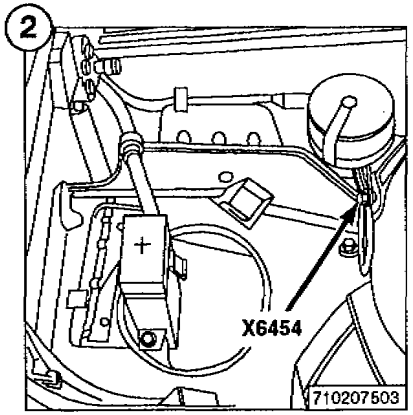
1



X165
GROUND

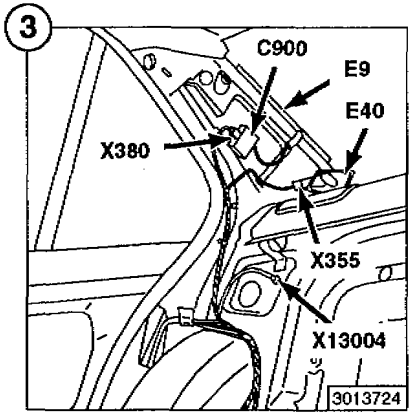
X770

2



X6454
GROUND

3



C900
SUPPRESSION
FILTER

E9
REAR
DEFOGGER I

E40
RIGHT REAR
INTERIOR LIGHT

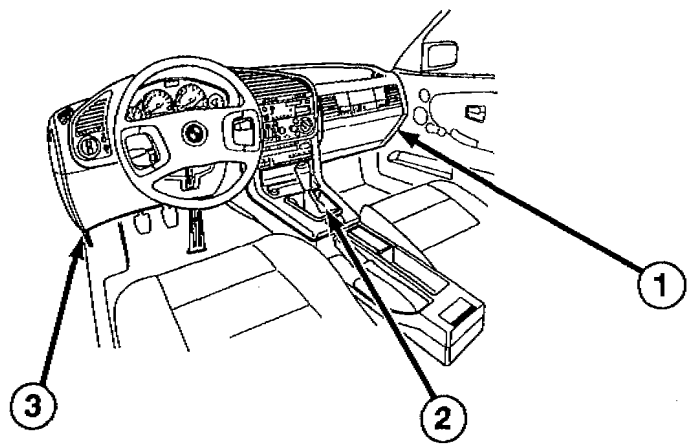
X355

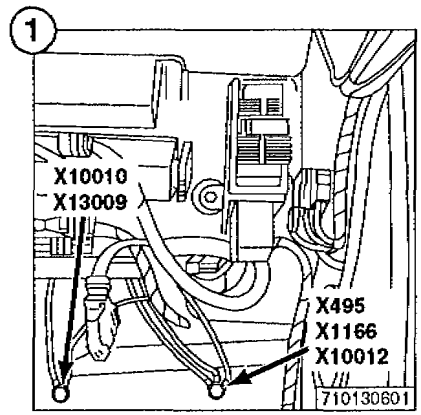
X380

X13004
GROUND

COMPONENT LOCATION VIEWS

B(-)





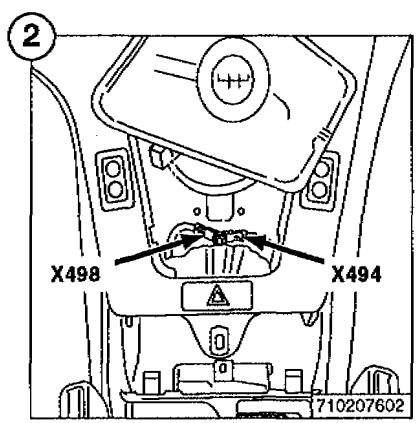
X495
GROUND

X1166
GROUND

X10010
GROUND

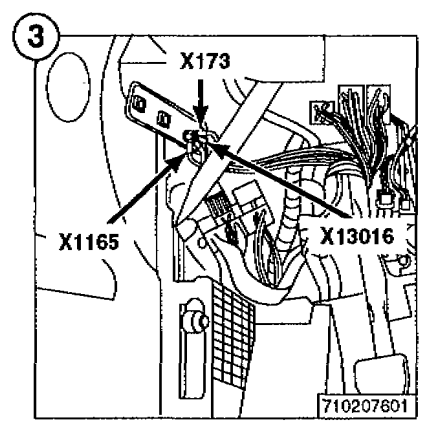
X13009
GROUND

X10012
GROUND



X494
GROUND

X498
GROUND



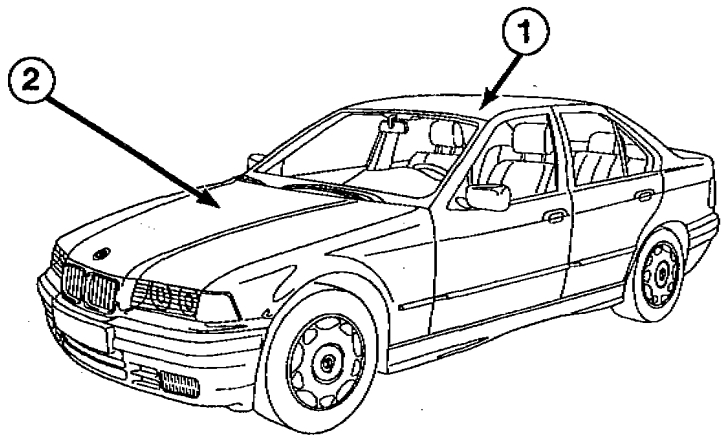
X173
GROUND

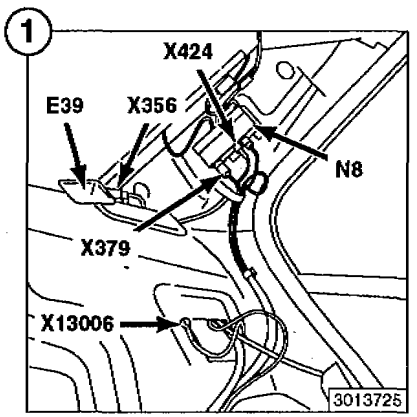
X1165
GROUND

X13016
GROUND

COMPONENT LOCATION VIEWS

B(–)





E39
LEFT REAR
INTERIOR LIGHT

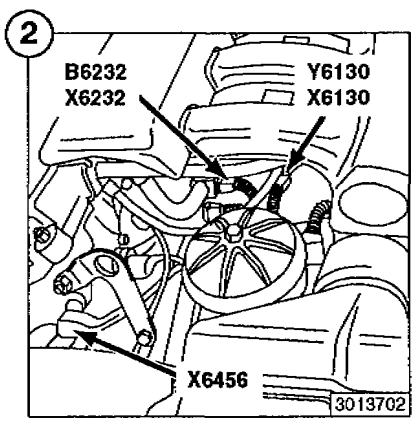
X13006
GROUND

N8
ANTENNA
AMPLIFIER
AM/FM

X358

X379

X424



B6232
ENGINE COOLANT
TEMPERATURE
SENSOR

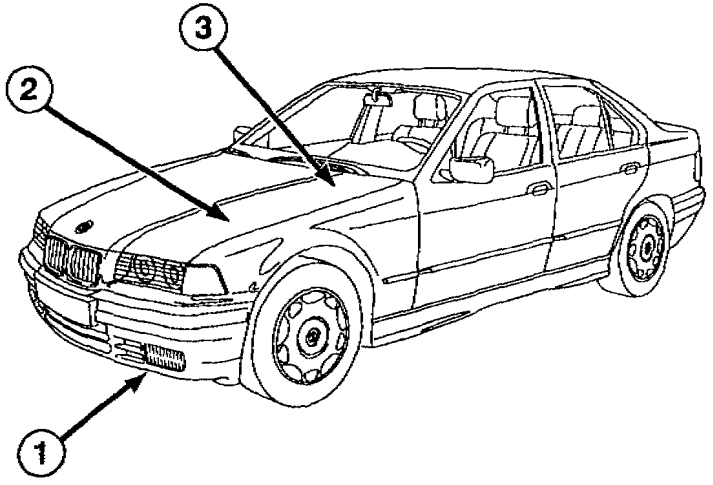
Y6130
IDLE SPEED
CONTROL VALVE

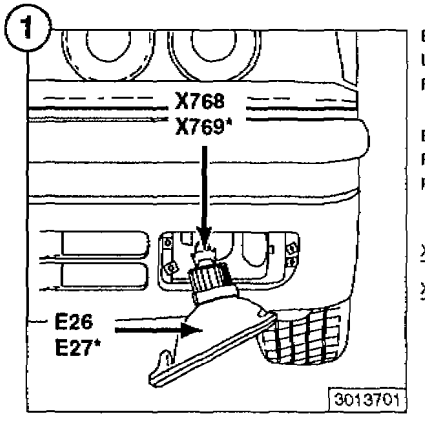
X6130

X6232

X6456
GROUND

COMPONENT LOCATION VIEWS





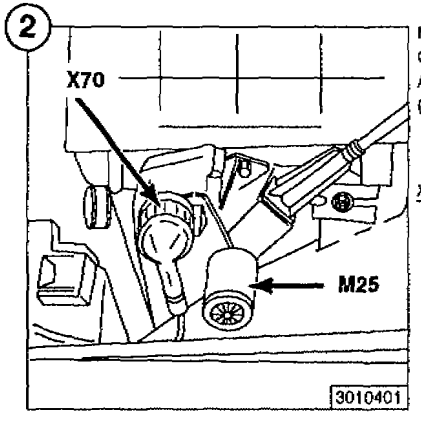
E26
LEFT
FOG LIGHT

E27
RIGHT
FOG LIGHT

X768

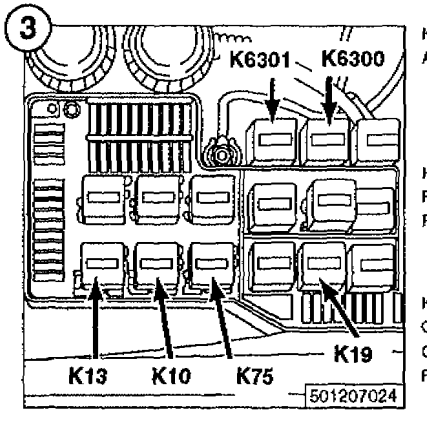
X769

* RH SIMILAR



M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70



K10
ABS RELAY

K75
ABS PUMP
MOTOR RELAY

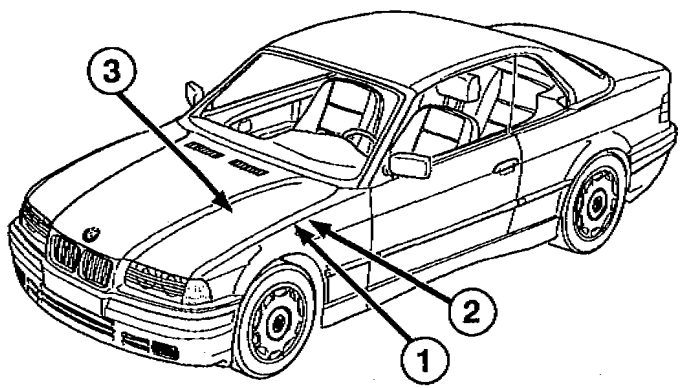
K13
REAR DEFOGGER
RELAY

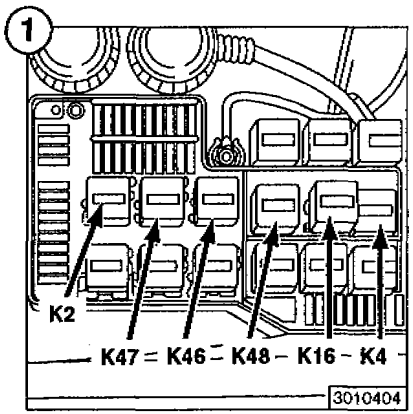
K6300
ENGINE CONTROL
MODULE RELAY

K19
COMPRESSOR
CONTROL
RELAY

K6301
CYL 1-6 FUEL
PUMP RELAY

COMPONENT LOCATION VIEWS





K2
HORN RELAY

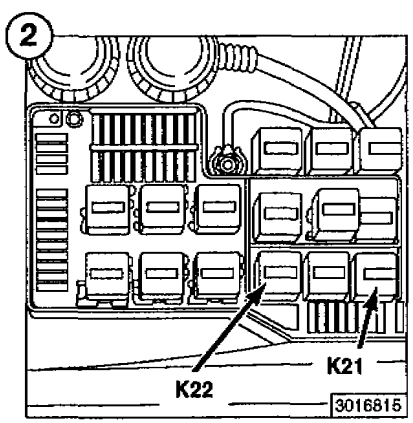
K4
BLOWER RELAY

K16
HAZARD
FLASHER RELAY

K46
HIGH BEAM
LIGHT RELAY

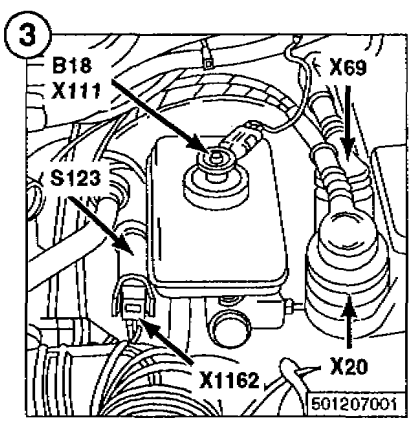
K47
FRONT FOG
LIGHT RELAY

K48
LOW BEAM
LIGHT RELAY



K21
NORMAL SPEED
RELAY

K22
HIGH SPEED
RELAY



B18
BRAKE FLUID
LEVEL SWITCH

S123
ABS PEDAL
TRAVEL SENSOR

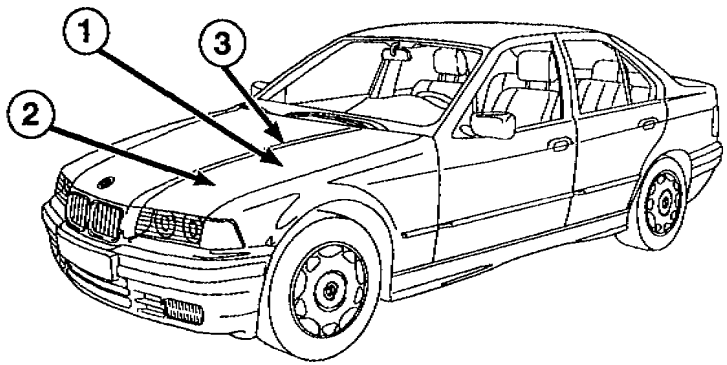
X20

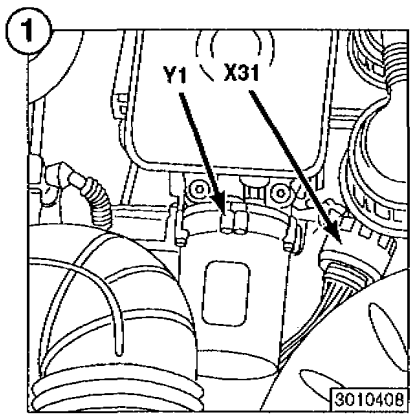
X69

X111

X1162

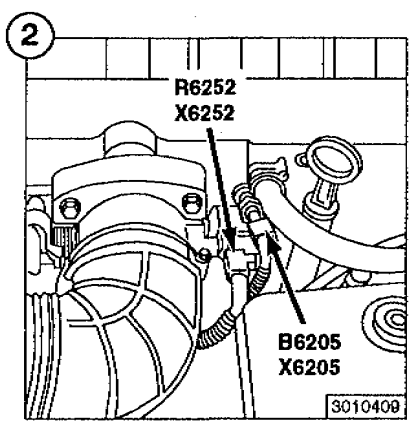
COMPONENT LOCATION VIEWS





X31

Y1
ABS
HYDRAULIC UNIT

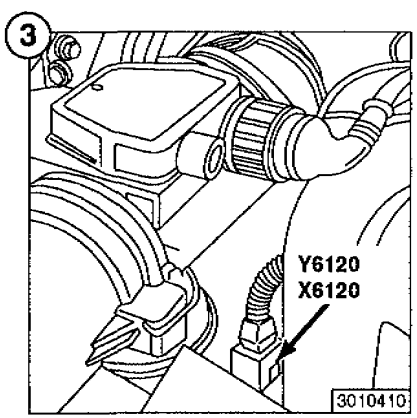


B6205
INTAKE
AIR TEMPERATURE
SENSOR

R6252
THROTTLE
POSITION
SENSOR

X6205

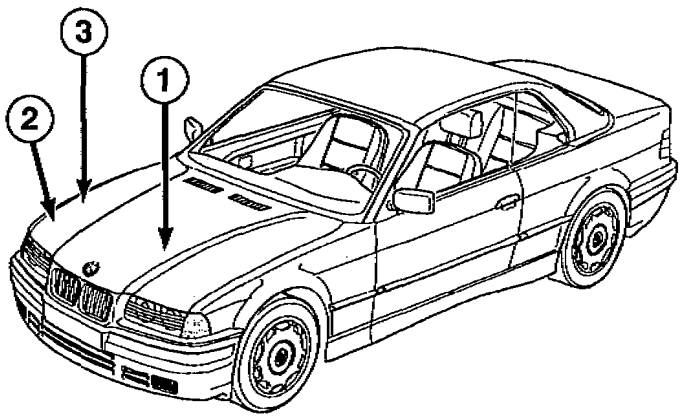
X6252

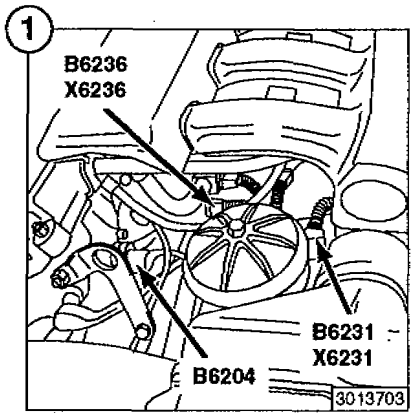


X6120

Y6120
EVAPORATIVE
EMISSION VALVE

COMPONENT LOCATION VIEWS



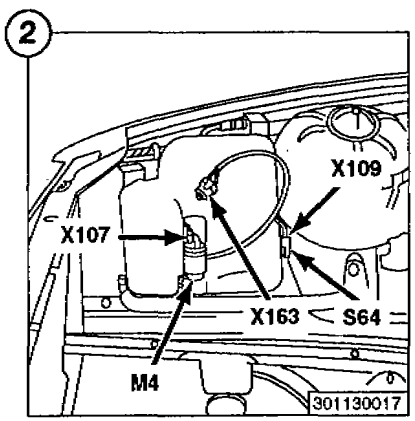


B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) — X6231, X6236

B6231 OIL PRESSURE SWITCH

B6236 ENGINE COOLANT TEMPERATURE SENSOR

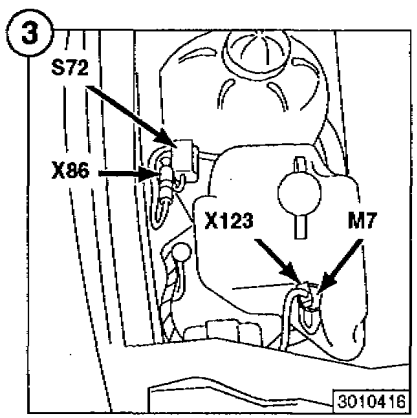
325



M4 WASHER PUMP

S64 WASHER FLUID LEVEL SWITCH

X107
X109
X163



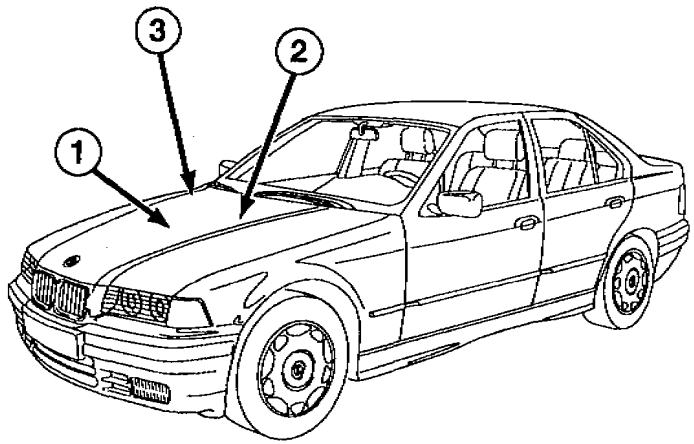
M7 HEADLIGHT/ FOG LIGHT WASHER PUMP

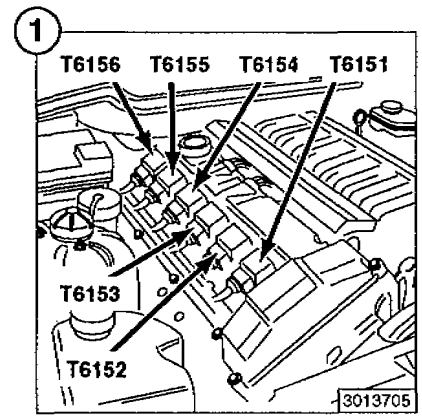
S72 RIGHT FRONT IMPACT SENSOR

X86
X123

* EARLY PRODUCTION

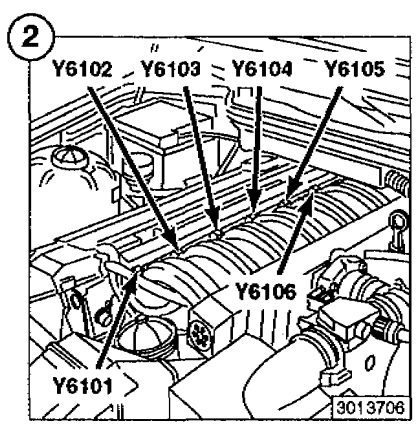
COMPONENT LOCATION VIEWS





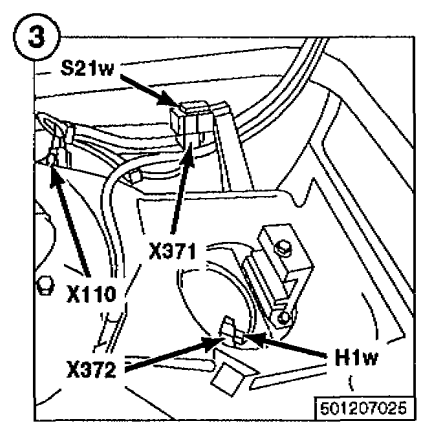
T6151 CYL. 1 IGNITION COIL	T6154 CYL. 4 IGNITION COIL
T6152 CYL. 2 IGNITION COIL	T6155 CYL. 5 IGNITION COIL
T6153 CYL. 3 IGNITION COIL	T6156 CYL. 6 IGNITION COIL

325



Y6101 CYL. 1 FUEL INJECTION VALVE	Y6104 CYL. 4 FUEL INJECTION VALVE
Y6102 CYL. 2 FUEL INJECTION VALVE	Y6105 CYL. 5 FUEL INJECTION VALVE
Y6103 CYL. 3 FUEL INJECTION VALVE	Y6106 CYL. 6 FUEL INJECTION VALVE

325

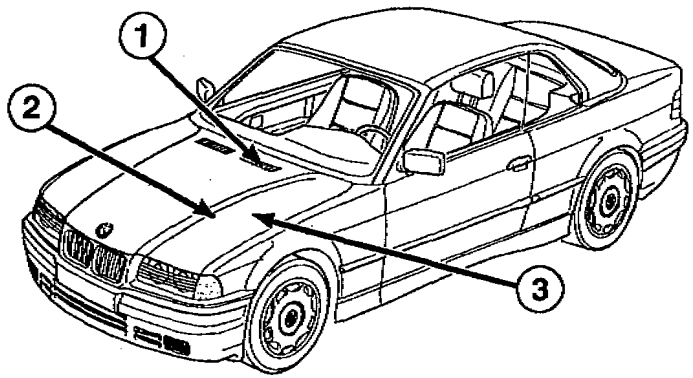


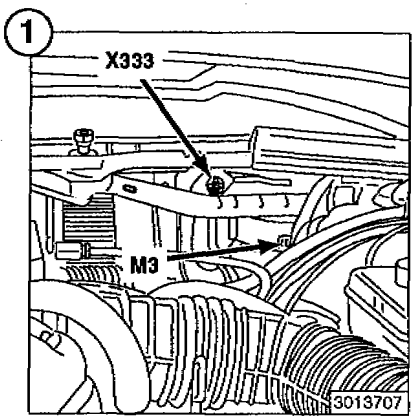
H1w
ANTI-THEFT HORN (ALPINE)

S21w
ENGINE HOOD SWITCH

X110
X371
X372

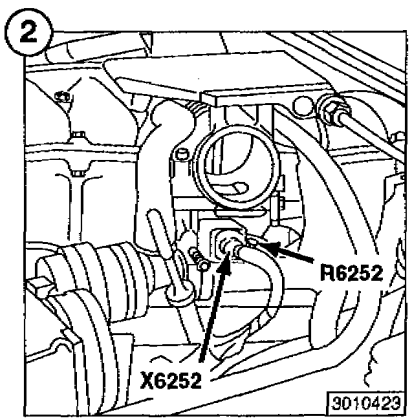
COMPONENT LOCATION VIEWS





1 M3
WIPER MOTOR

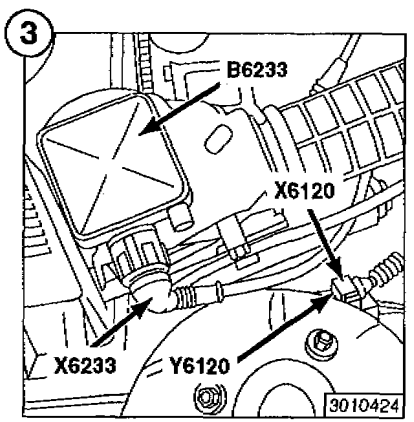
X333



2 R6252
THROTTLE
POSITION
SENSOR

X6252

318



3 B6233
VOLUME AIR FLOW
SENSOR

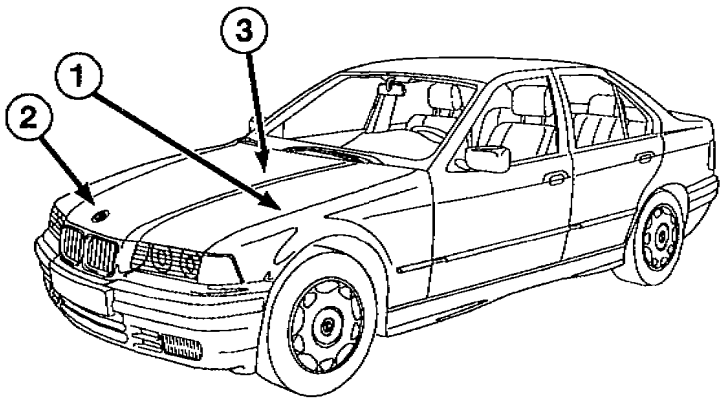
X6120

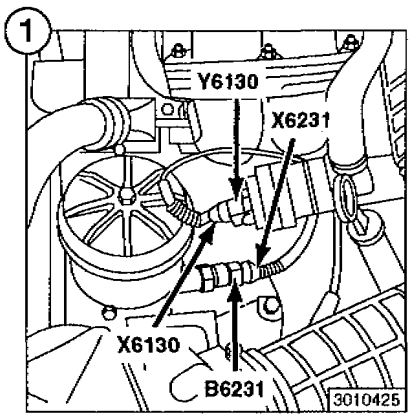
X6233

Y6120
EVAPORATIVE
EMISSION VALVE

318

COMPONENT LOCATION VIEWS



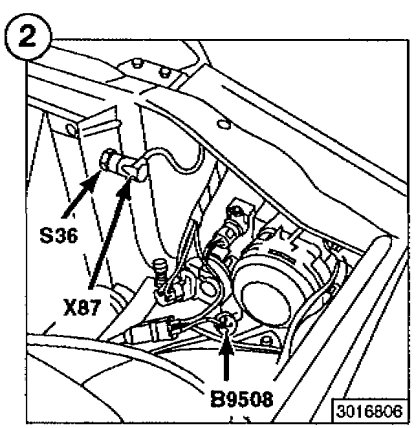


B6231
OIL PRESSURE
SWITCH

X6130

X6231

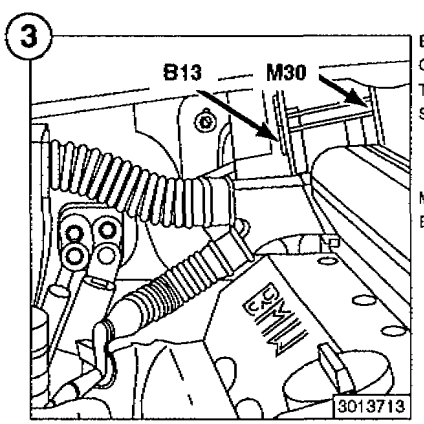
Y6130
IDLE SPEED
CONTROL VALVE



B9508
PRESSURE
SWITCH

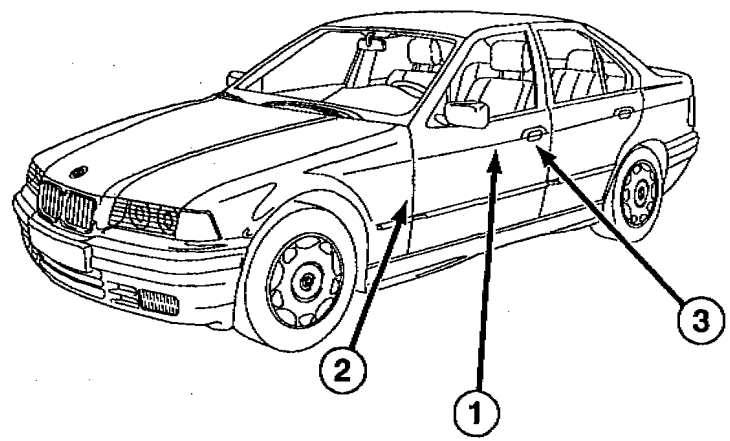
S36
TEMPERATURE
SWITCH

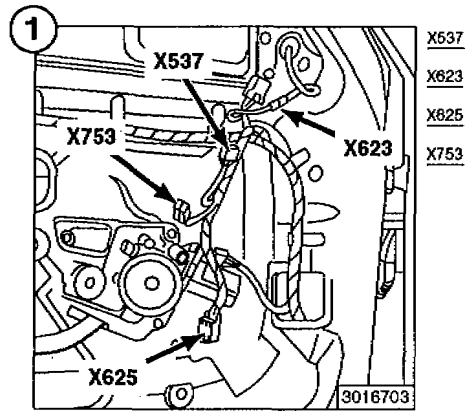
X87

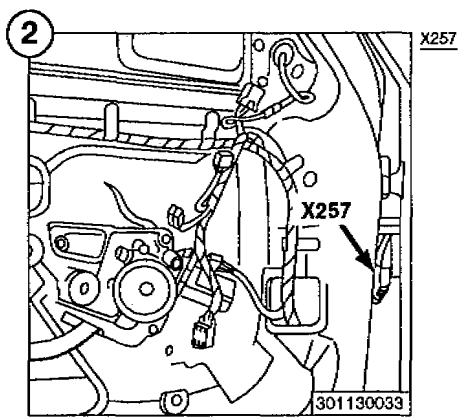


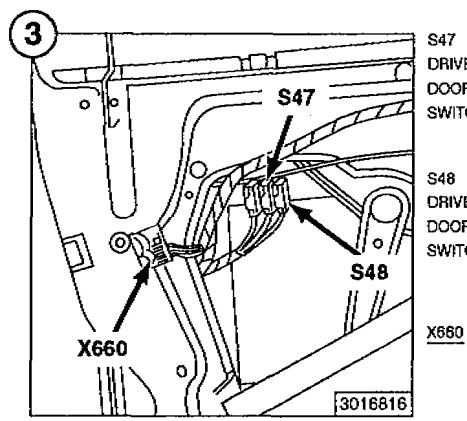
B13
OUTSIDE
TEMPERATURE
SENSOR

M30
BLOWER MOTOR

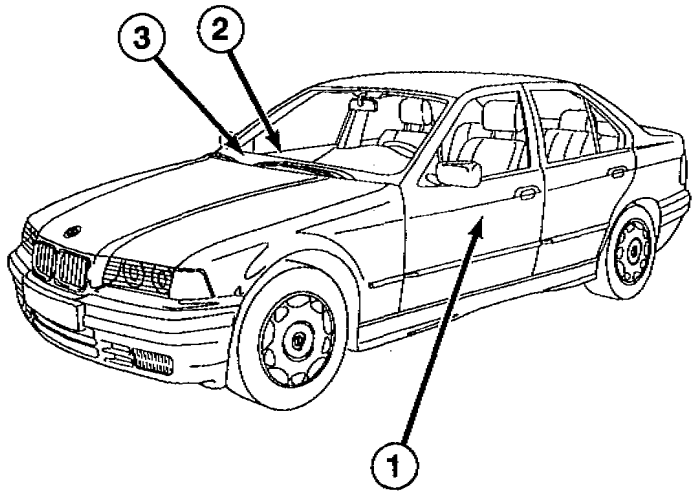

1
2
3

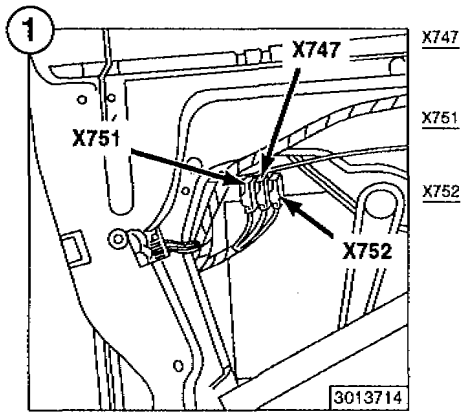

1
X537
X753
X623
X625
3016703
X537
X623
X625
X753

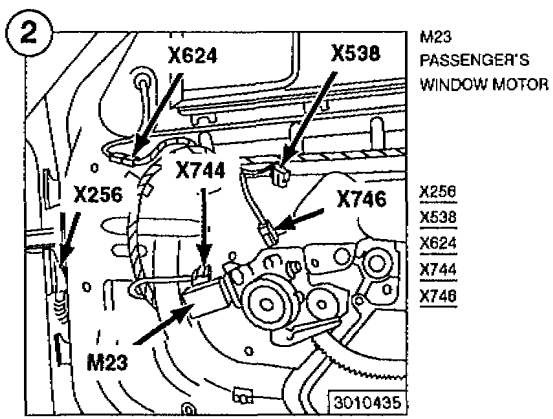

2
X257
301130033
X257


3
S47
S48
X660
3016816
S47
DRIVER'S
DOOR LOCK
SWITCH
S48
DRIVER'S
DOOR HANDLE
SWITCH
X660

COMPONENT LOCATION VIEWS

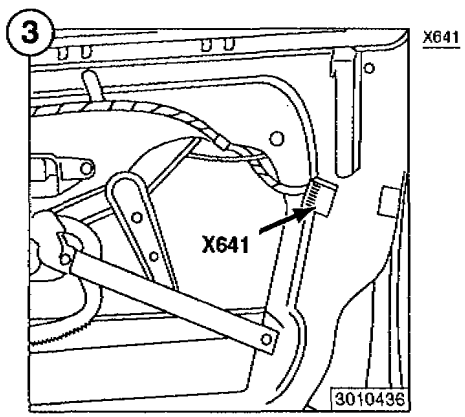




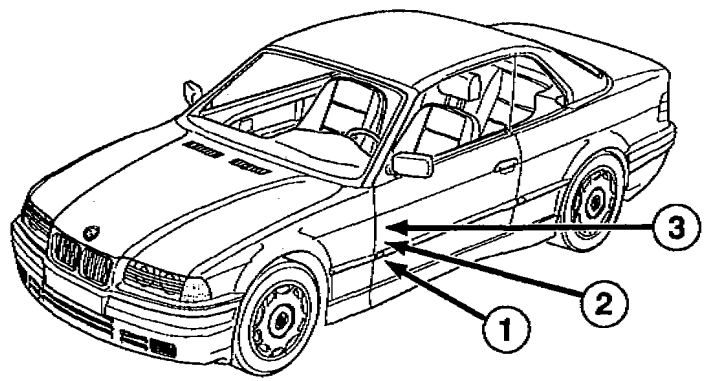


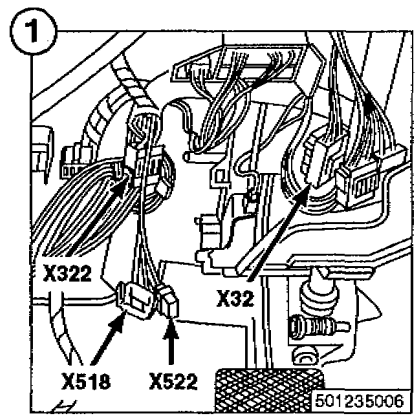
M23
PASSENGER'S
WINDOW MOTOR

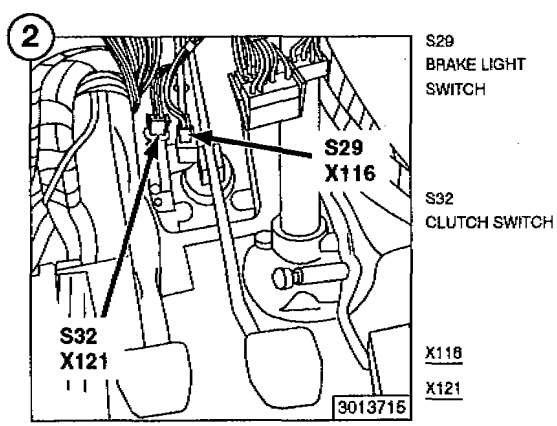
X256
X538
X624
X744
X746



COMPONENT LOCATION VIEWS





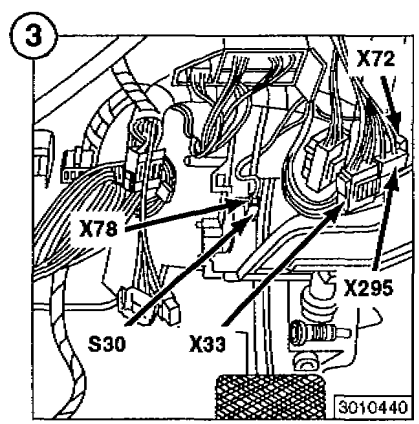


S29
BRAKE LIGHT
SWITCH

S32
CLUTCH SWITCH

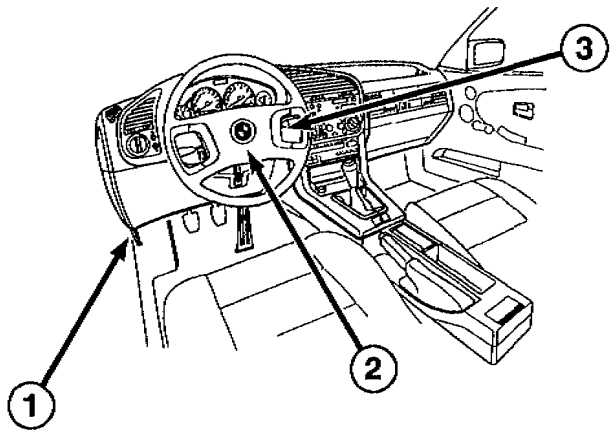
X116

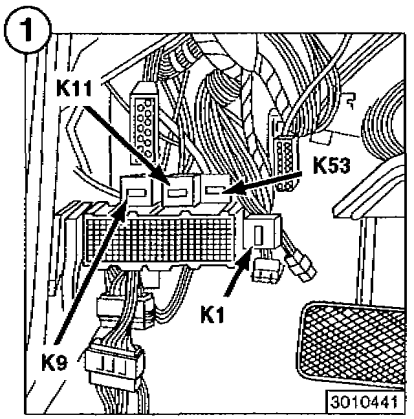
X121



S30
BRAKE LIGHT
SWITCH

COMPONENT LOCATION VIEWS



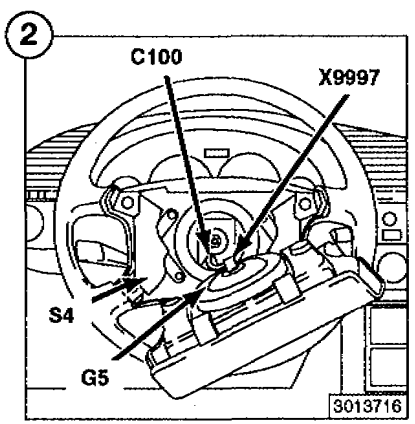


K1
STARTER RELAY

K53
WIPER MOTOR
RELAY

K9
UNLOADER
RELAY,
TERMINAL 15

K11
WIPER RELAY

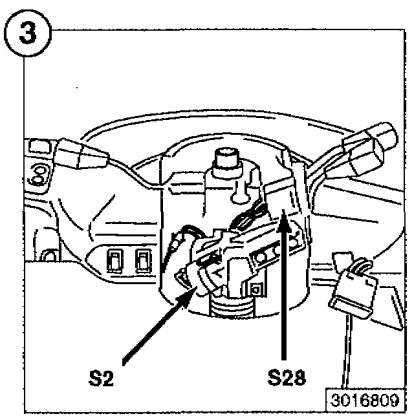


C100
CONTACT RING

G5
DRIVER'S
AIR BAG
GENERATOR

S4
HORN SWITCH

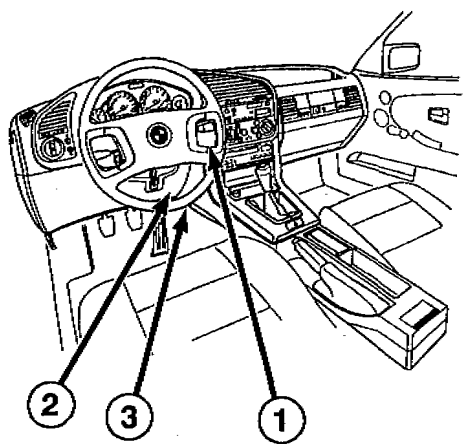
X9997

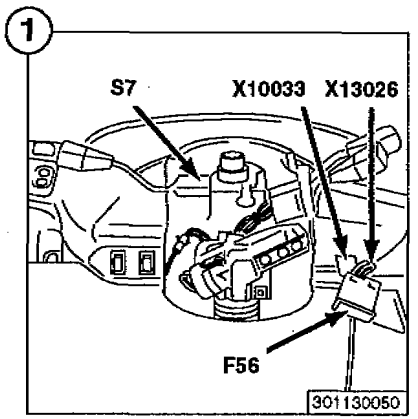


S2
IGNITION
SWITCH

S28
CRUISE CONTROL
SWITCH

COMPONENT LOCATION VIEWS



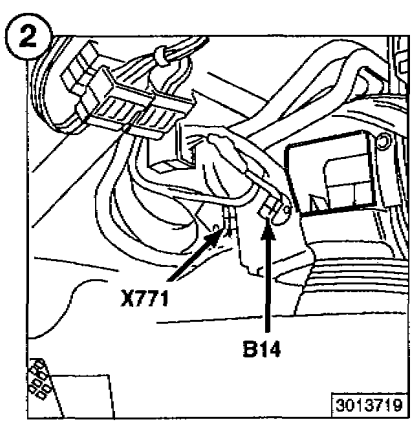


F56
AUTOMATIC
CUT-OUT

S7
COMBINATION
SWITCH

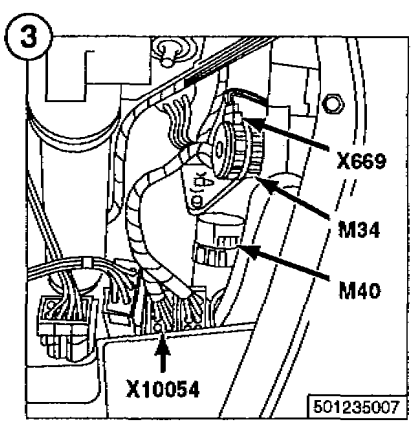
X10033

X13026



B14
EVAPORATOR
TEMPERATURE
SENSOR

X771



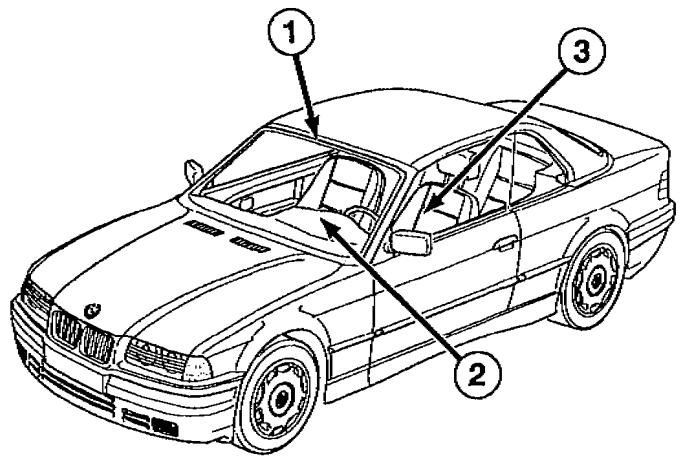
M34
DASH VENT
MIXING FLAP
MOTOR

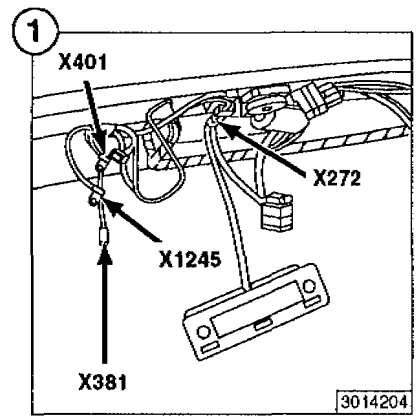
M40
RECIRCULATION
FLAP MOTOR

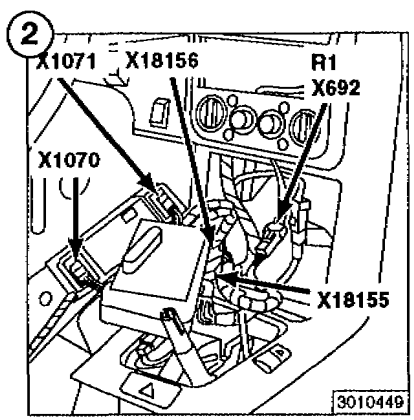
X669

X10054

COMPONENT LOCATION VIEWS

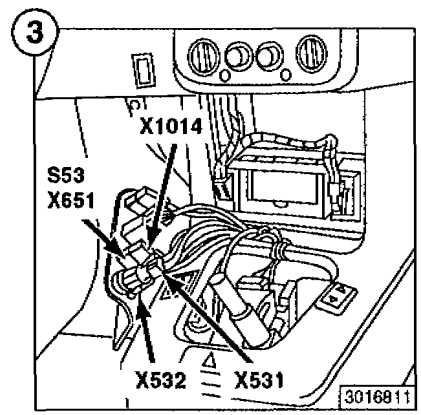






R1
MIXING ACTUATOR

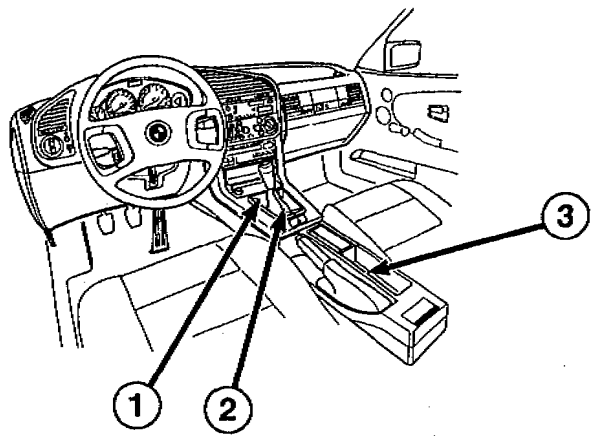
X692
X1070
X1071
X18155
X18156

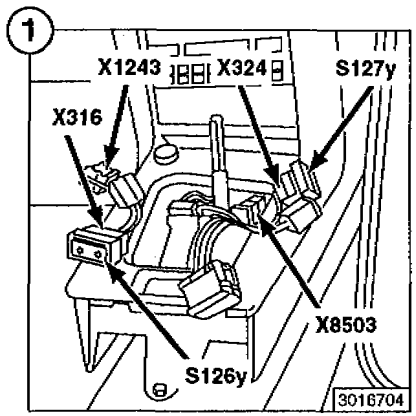


S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014

COMPONENT LOCATION VIEWS

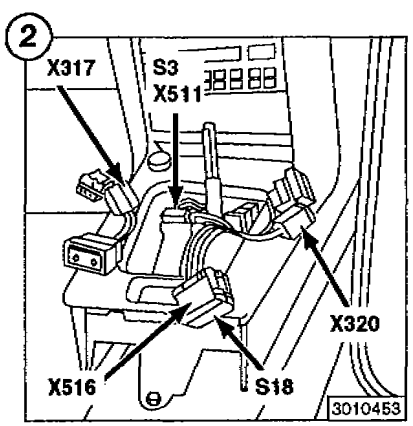




S126y
DRIVER'S
POWER
WINDOW SWITCH

S127y
PASSENGER'S
POWER WINDOW
SWITCH

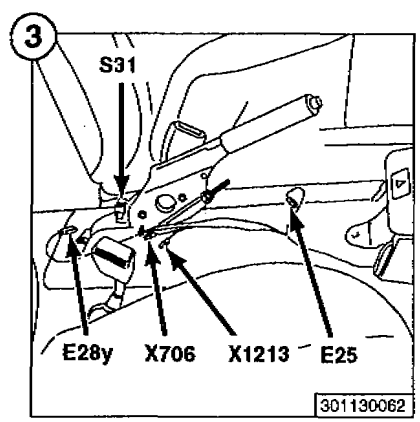
X316
X324
X1243
X8503



S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH

S18
HAZARD SWITCH

X317
X320
X511
X516



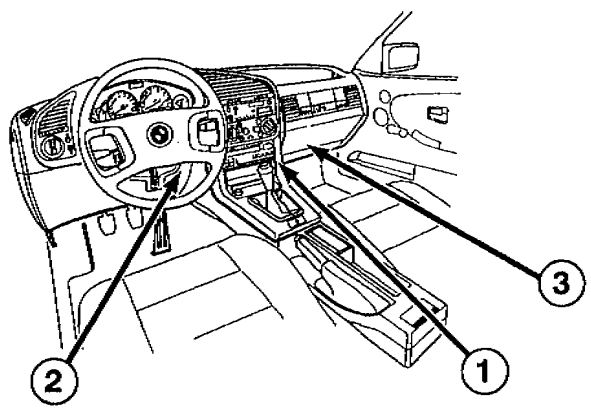
E25
FRONT
ASHTRAY LIGHT

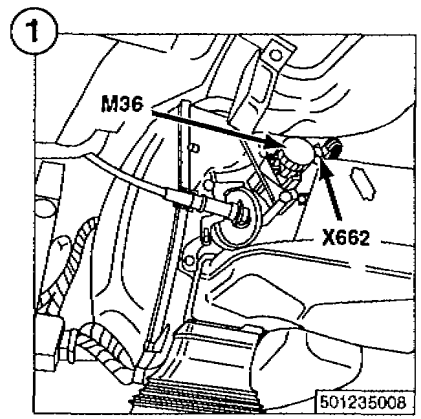
E28y
REAR
ASHTRAY LIGHT

S31
PARK BRAKE
SWITCH

X706
X1213

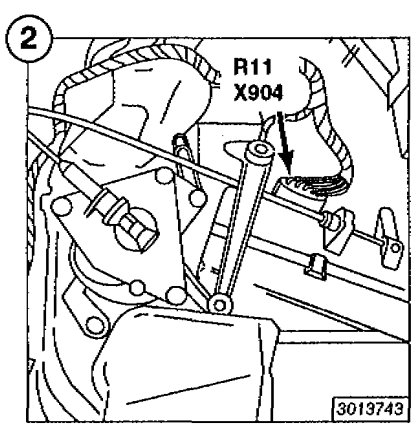
COMPONENT LOCATION VIEWS





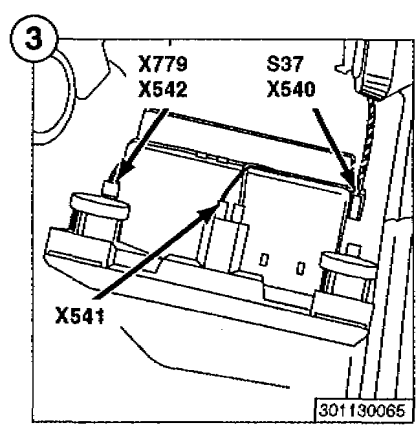
M36
FRESH AIR
FLAP MOTOR

X662



R11
BLOWER
RESISTORS

X904



S37
GLOVE BOX
LIGHT SWITCH

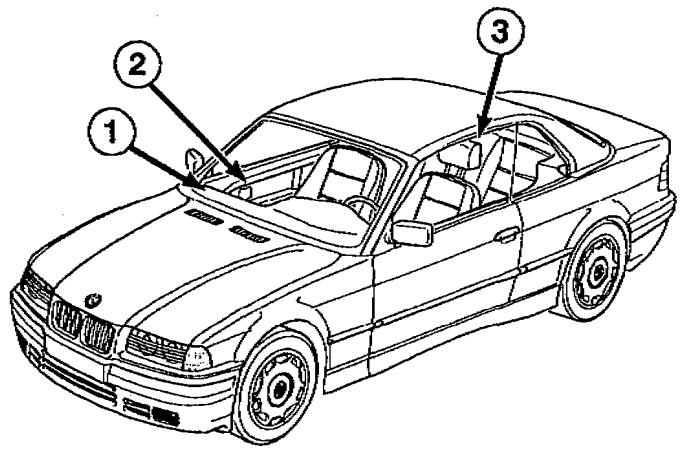
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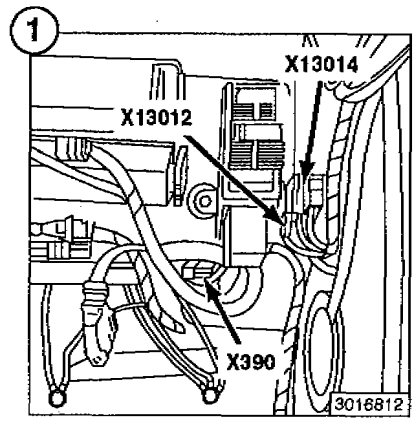
X541

X542

X779
CHARGING SOCKET

COMPONENT LOCATION VIEWS

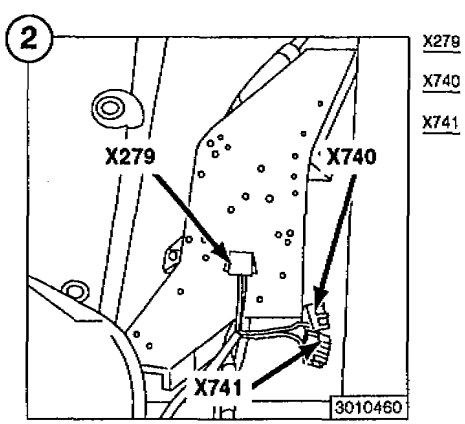




X390

X13012

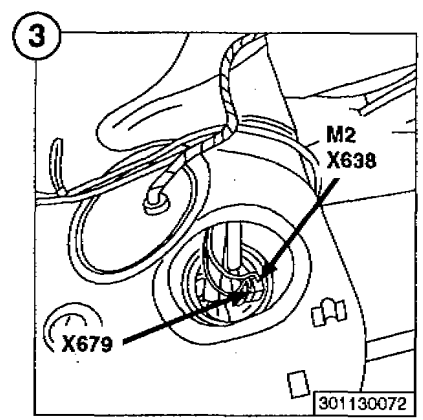
X13014



X279

X740

X741

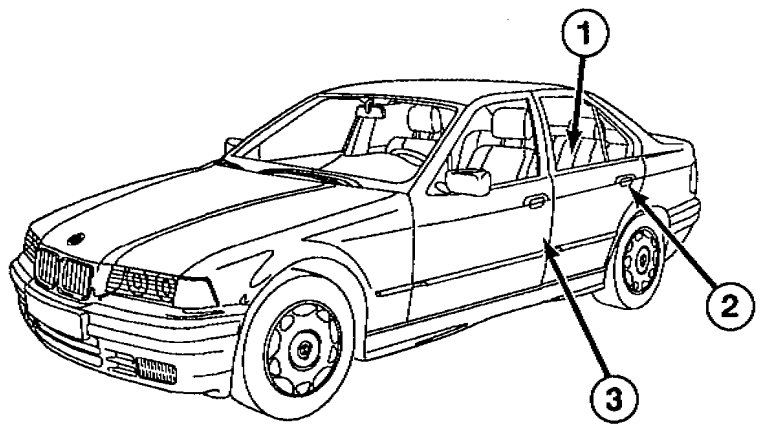


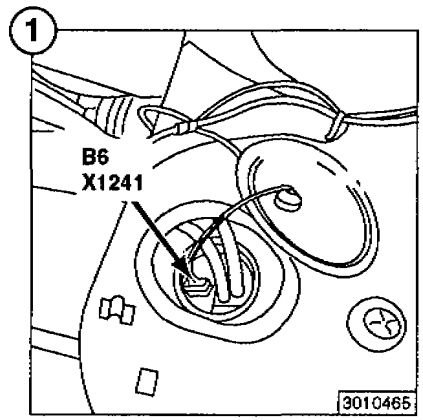
M2
FUEL PUMP

X638

X679

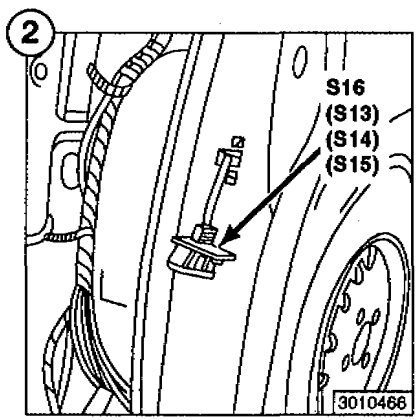
COMPONENT LOCATION VIEWS





B6
FUEL LEVEL
SENSOR

X1241

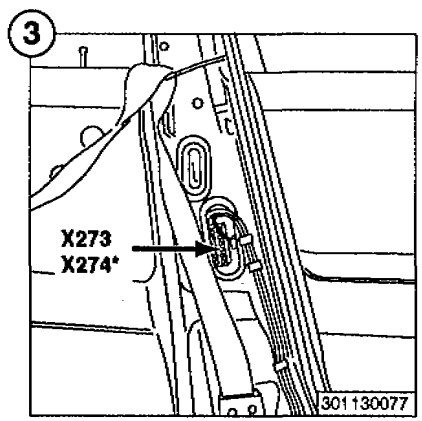


S13
PASSENGER'S
DOOR JAMB
SWITCH

S16
LEFT REAR
DOOR JAMB
SWITCH

S14
DRIVER'S
DOOR JAMB
SWITCH

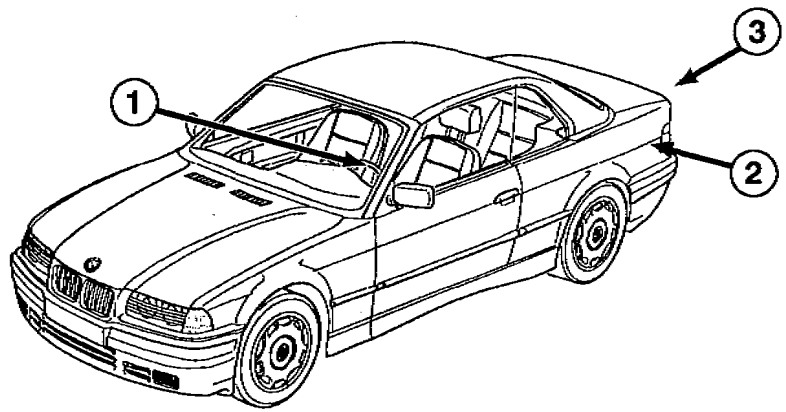
S15
REAR RIGHT
DOOR JAMB
SWITCH

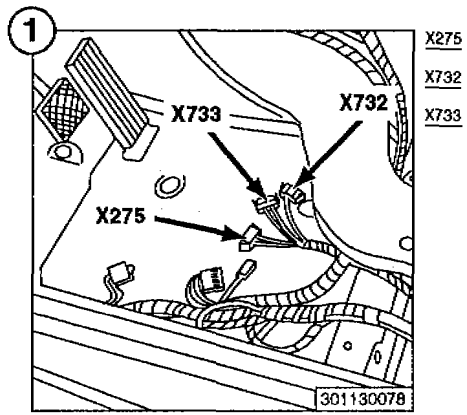


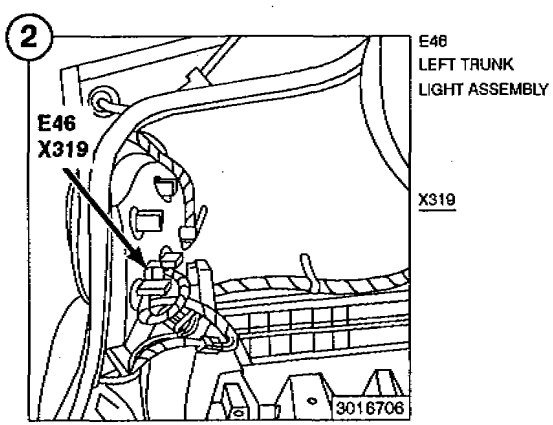
X273

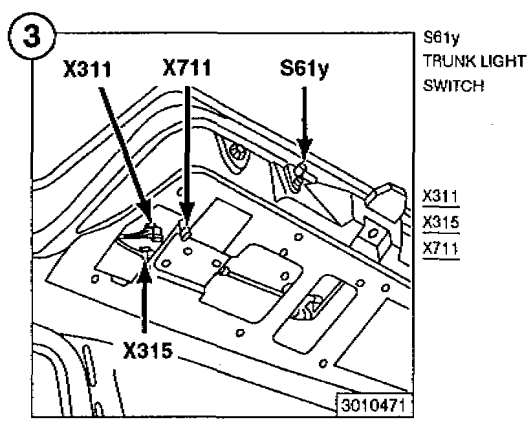
X274

* RH SIMILAR

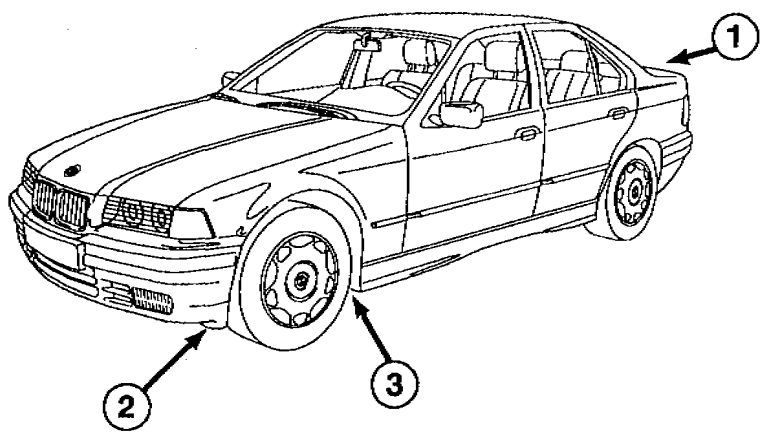

1
2
3

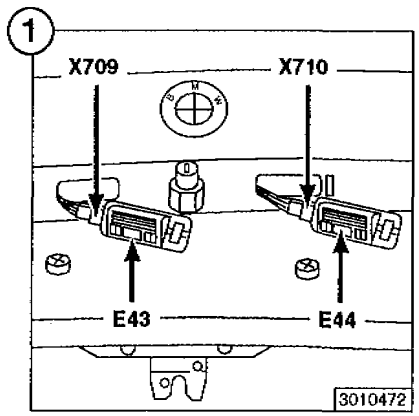

1
X733
X732
X275
301130078
X275
X732
X733


2
E46
X319
3016706
E46
LEFT TRUNK
LIGHT ASSEMBLY
X319


3
X311
X711
S61y
X315
3010471
S61y
TRUNK LIGHT
SWITCH
X311
X315
X711

COMPONENT LOCATION VIEWS

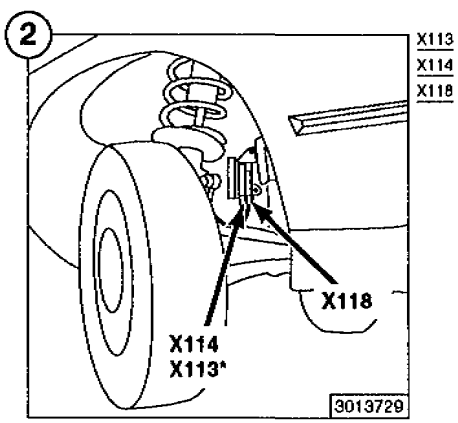




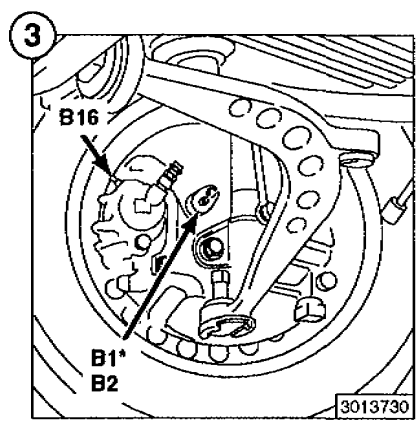
E43
LEFT
LICENSE PLATE
LIGHT

E44
RIGHT
LICENSE PLATE
LIGHT

X709
X710



X113
X114
X118



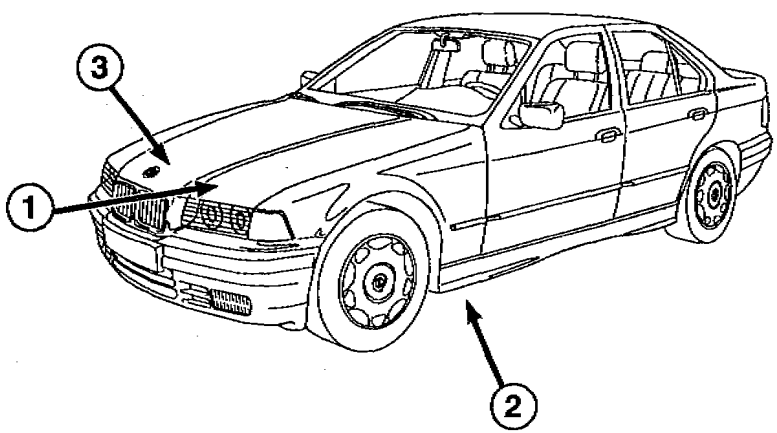
B1
RIGHT FRONT
SPEED SENSOR
- ABS

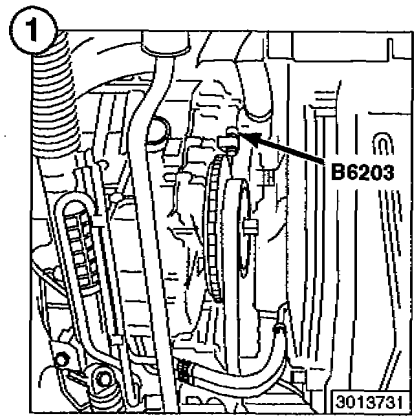
B2
LEFT FRONT
SPEED SENSOR
- ABS

B16
LEFT FRONT
BRAKE PAD
SENSOR

* RH SIMILAR

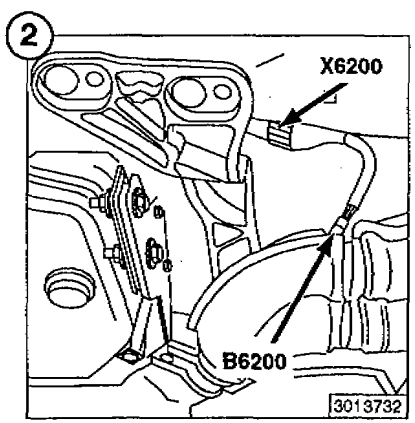
COMPONENT LOCATION VIEWS





325

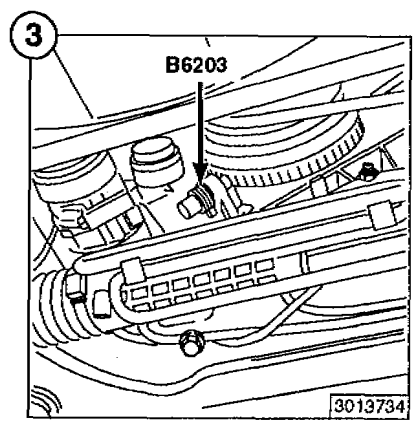
B6203
CRANKSHAFT
POSITION/RPM
SENSOR



325

B6200
HEATED
OXYGEN SENSOR

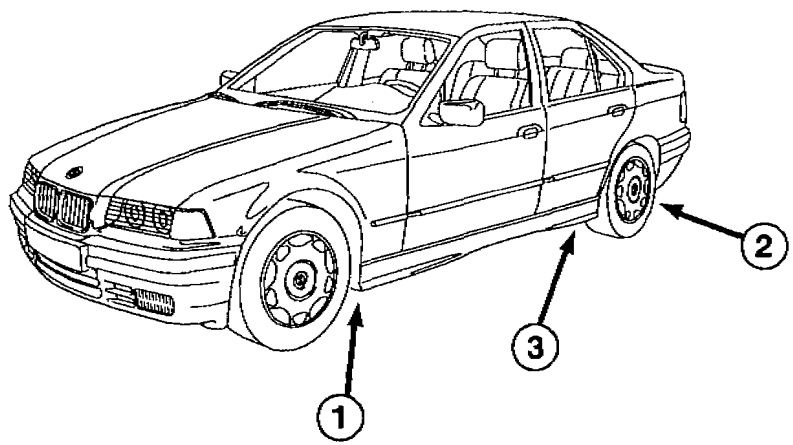
X6200

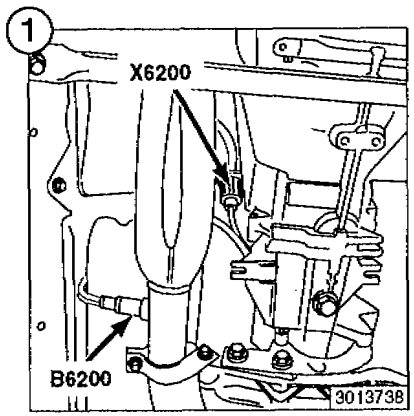


318

B6203
CRANKSHAFT
POSITION/RPM
SENSOR

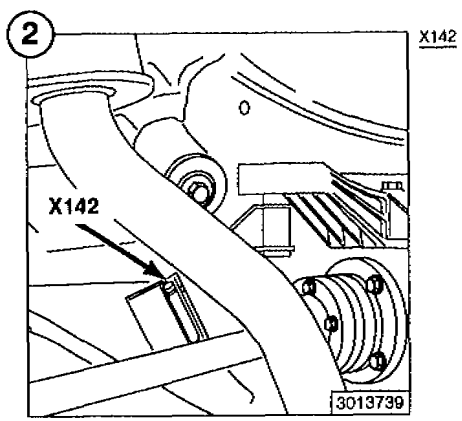
COMPONENT LOCATION VIEWS

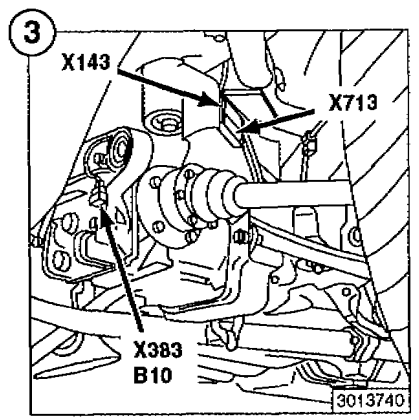




B6200
HEATED
OXYGEN SENSOR

X6200





B10
VEHICLE
SPEED SENSOR

X143
X383
X713

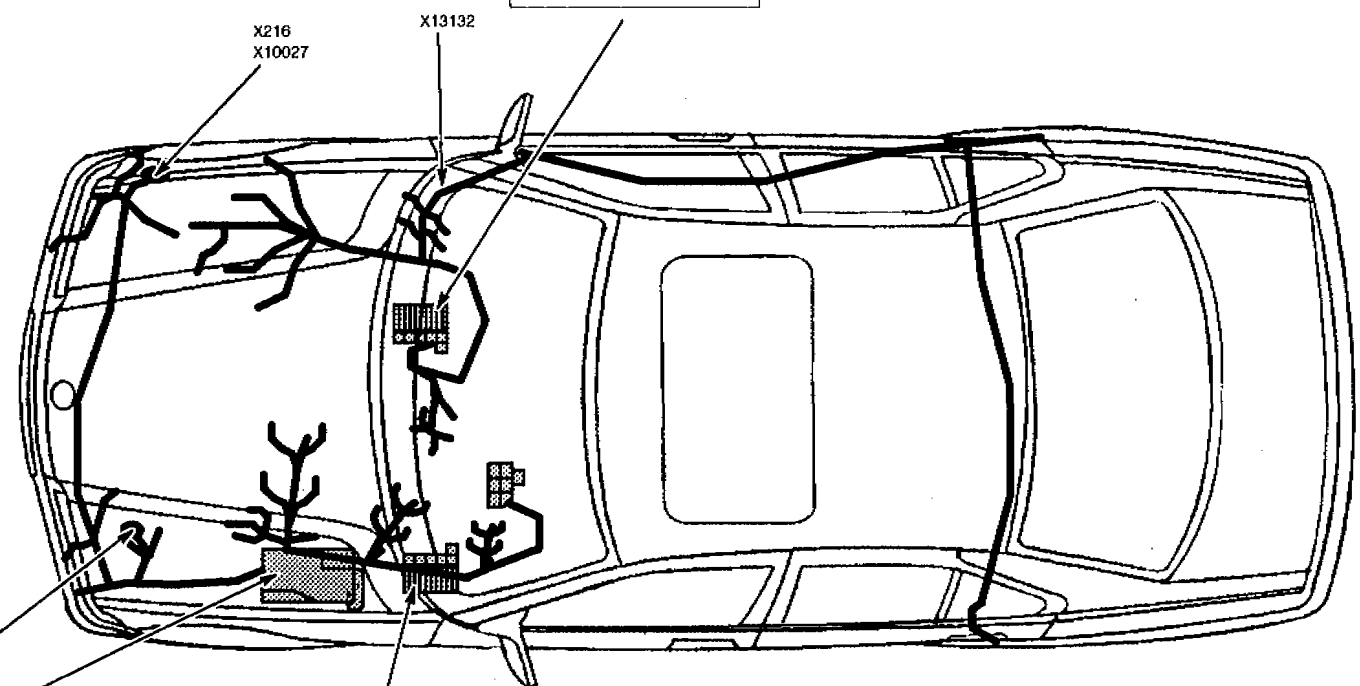
SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X276	FRONT	8000.0-01
X313-X314	REAR	8000.0-02
X428-X481	REAR	8000.0-02
X530-X595	FRONT	8000.0-01
X805	REAR	8000.0-02
X824-X830	RADIO	NOT SHOWN
X849-X851	DRIVER'S DOOR	NOT SHOWN
X876-X878	RADIO	NOT SHOWN
X906	IHKR	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015-X1168	FRONT	8000.0-01
X1167	REAR	8000.0-02
X1169-X1192	FRONT	8000.0-01
X1212-X1218	REAR	8000.0-02
X1225-X1233	FRONT	8000.0-01
X1226-X1238	REAR	8000.0-02
X1382-X1383	RADIO	NOT SHOWN
X1387-X1396	REAR	8000.0-02
X6410	ENGINE	NOT SHOWN
X6411-X6420	M50 ENGINE	NOT SHOWN
X6458-X6463	ENGINE	NOT SHOWN
X6475	M50 ENGINE	NOT SHOWN
X6492-X6810	ENGINE	NOT SHOWN
X6820	M50 ENGINE	NOT SHOWN
X6821-X6822	ENGINE	NOT SHOWN
X6830-X6832	ENGINE	NOT SHOWN
X6835-X6855	ENGINE	NOT SHOWN
X6860	M50 ENGINE	NOT SHOWN
X6863-X6866	ENGINE	NOT SHOWN
X6900-X6906	ENGINE	NOT SHOWN
X7163	ENGINE	NOT SHOWN
X8004	ENGINE	NOT SHOWN
X8005	M42 ENGINE	NOT SHOWN
X8007-X8010	ENGINE	NOT SHOWN
X8015	ENGINE	NOT SHOWN
X8021	M50 ENGINE	NOT SHOWN
X8022	ENGINE	NOT SHOWN
X8025	M42 ENGINE	NOT SHOWN
X8042	ENGINE	NOT SHOWN
X8043-X8049	M42 ENGINE	NOT SHOWN
X8051	ENGINE	NOT SHOWN
X8056	ENGINE	NOT SHOWN
X8071-X8565	ENGINE	NOT SHOWN
X8576	M42 ENGINE	NOT SHOWN
X10007-X10100	FRONT	8000.0-01
X13002-X13011	REAR	8000.0-02
X13021-X13132	FRONT	8000.0-01
X18160-X18161	IHKR	NOT SHOWN
X18165	FRONT	8000.0-01
X18251	DRIVER'S DOOR	NOT SHOWN
X18252	PASSENGER'S DOOR	NOT SHOWN
X18253	DRIVER'S DOOR	NOT SHOWN
X18254-X18284	PASSENGER'S DOOR	NOT SHOWN
X19513-X19514	RADIO	NOT SHOWN

SPLICE LOCATION VIEWS

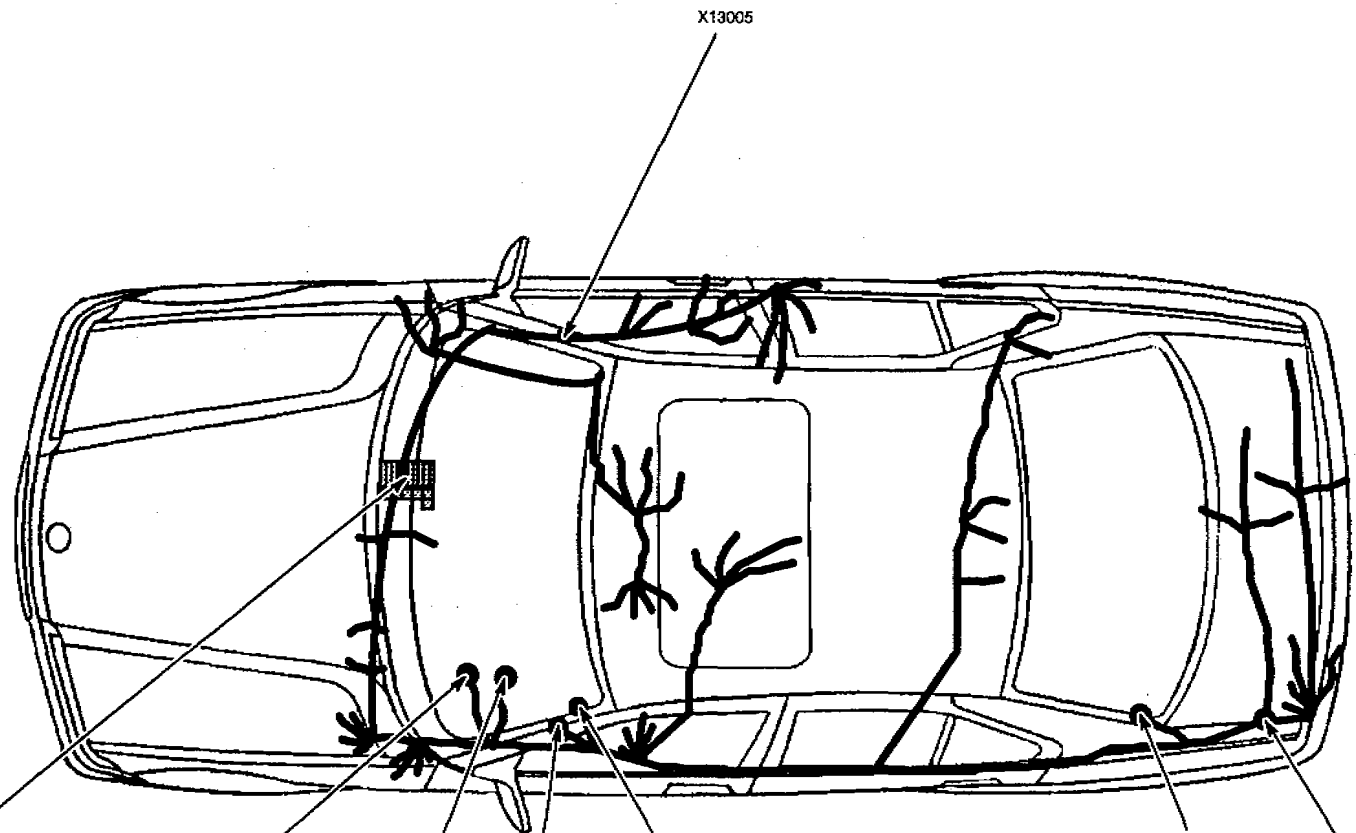


SPLICE PANEL			
X195 ●	X1164 ●		
X216 ●	X10009 ●		
X222 ●	X10064 ●		
X557 ●	X13115 ●		
X1163 ●			

SPLICE PANEL				
X184 ●	X245 ●	X1027 ●	X1152 ●	X10007 ●
X185 ●	X246 ●	X1028 ●	X1168 ●	X10020 ●
X186 ●	X276 ●	X1036 ●	X1172 ●	X10021 ●
X187 ●	X530 ●	X1068 ●	X1177 ●	X10022 ●
X203 ●	X595 ●	X1073 ●	X1186 ●	X10055 ●
X223 ●	X1015 ●	X1076 ●	X1192 ●	X10100 ●
X238 ●	X1022 ●	X1077 ●	X1233 ●	

SPLICE PANEL				
X181 ●	X213 ●	X1067 ●	X1182 ●	X10061 ●
X182 ●	X228 ●	X1069 ●	X1225 ●	X13021 ●
X183 ●	X1019 ●	X1079 ●	X10008 ●	X18165 ●
X188 ●	X1029 ●	X1080 ●	X10011 ●	
X191 ●	X1047 ●	X1085 ●	X10024 ●	
X196 ●	X1065 ●	X1169 ●	X10028 ●	
X197 ●	X1066 ●	X1179 ●	X10029 ●	

SPLICE LOCATION VIEWS



SPLICE PANEL			
X441 ●	X450 ●	X462 ●	X1238 ●
X442 ●	X453 ●	X475 ●	X1387 ●
X443 ●	X454 ●	X481 ●	X1396 ●
X444 ●	X455 ●	X1212 ●	X13002 ●
X445 ●	X458 ●	X1235 ●	X13003 ●
X449 ●	X460 ●	X1236 ●	X13010 ●
		X1237 ●	X13011 ●

FIG. 1

B550001.00

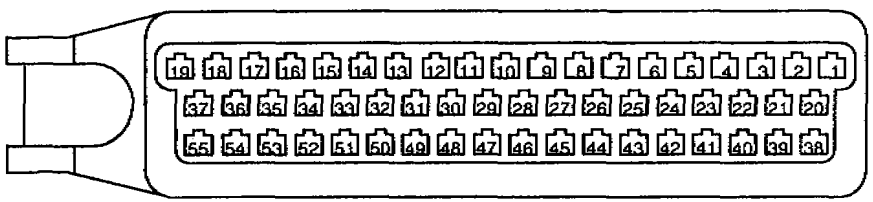


FIG. 2

B260005.00

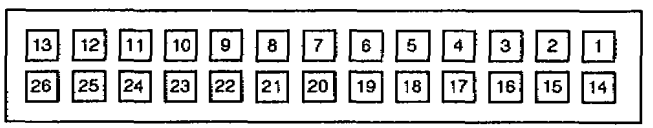


FIG. 3

B150003.00

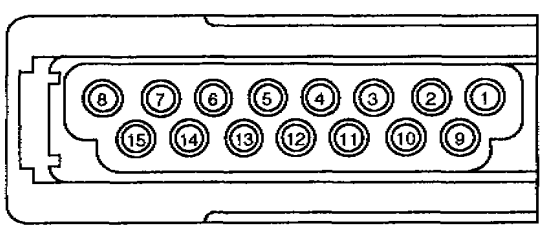
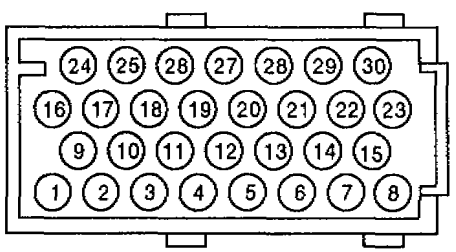


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

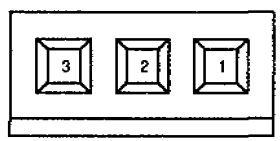


FIG. 2

B120003.00

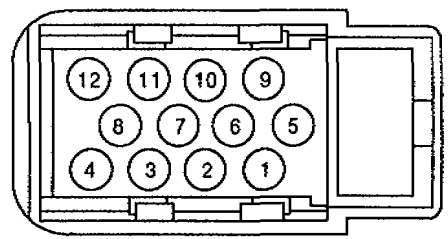


FIG. 3

B120001.00

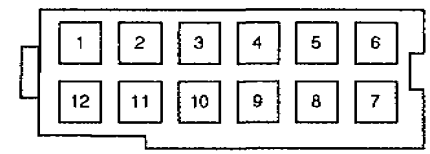


FIG. 4

B050005.00

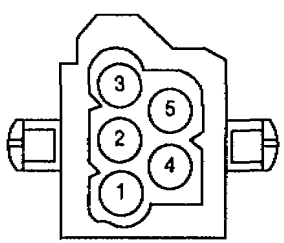


FIG. 5

B180000.00

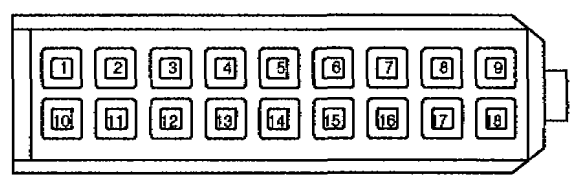


FIG. 6

B040003.00

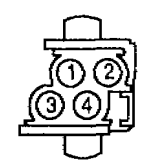


FIG. 1

B080002.00

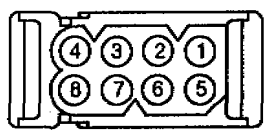


FIG. 2

B120015

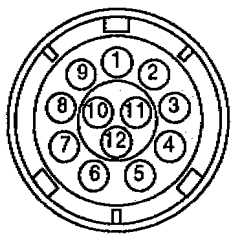


FIG. 3

B030001.00

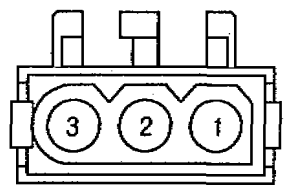


FIG. 4

B080003.00

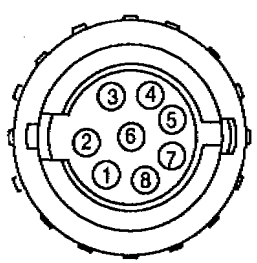


FIG. 5

B300003.00

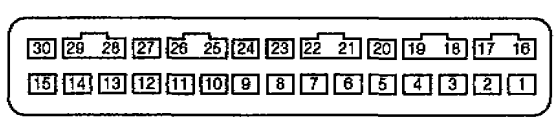
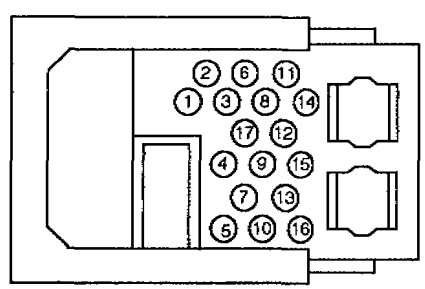


FIG. 6

B170001.00



CONNECTOR VIEWS

FIG. 1

B120002.02

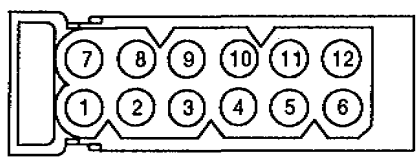


FIG. 2

B030004.00



FIG. 3

B100008.00

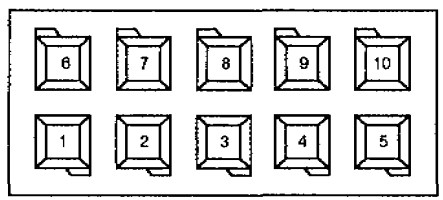


FIG. 4

B030005.00

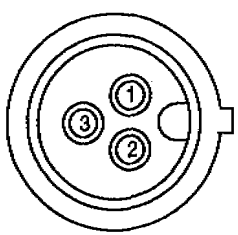


FIG. 5

B120004.01

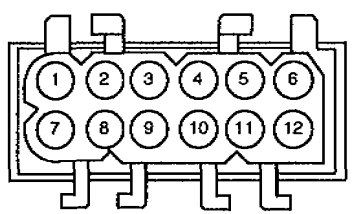


FIG. 6

B040002.00

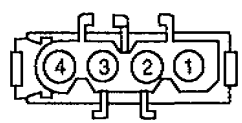


FIG. 1

B060006.00

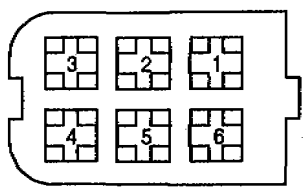


FIG. 2

B050003.00

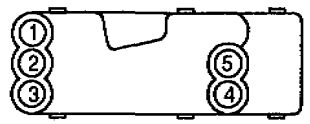


FIG. 3

B040004.00

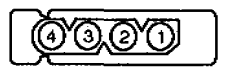


FIG. 4

B040018

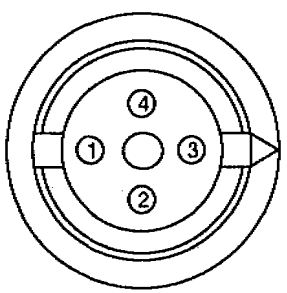


FIG. 5

B080001.00

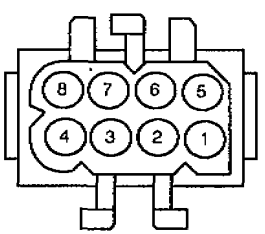


FIG. 6

B090002.00

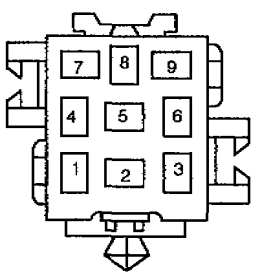


FIG. 1

B210002.00

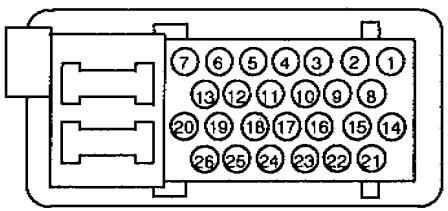


FIG. 2

B060001.02

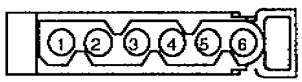


FIG. 3

B070005.01

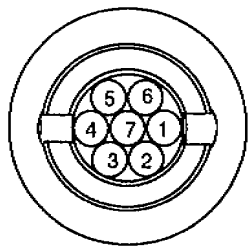


FIG. 4

B200003.00

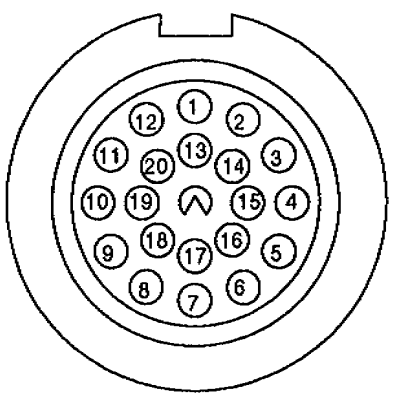


FIG. 5

B060010.01

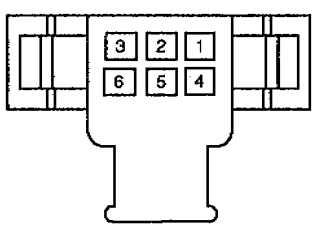


FIG. 6

B030003.02



CONNECTOR VIEWS

FIG. 1

B060008.00

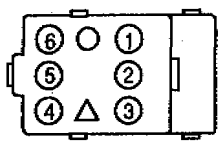


FIG. 2

B250001.00

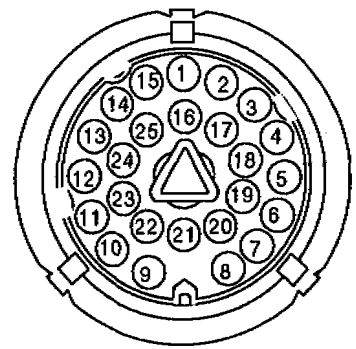


FIG. 3

B250001.01

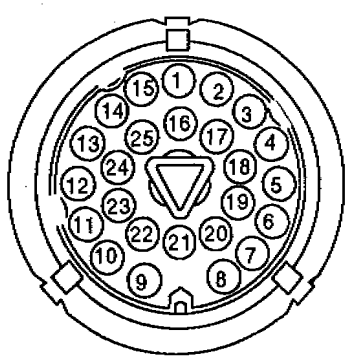


FIG. 4

B060019.02

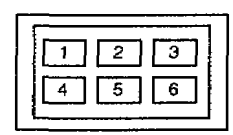


FIG. 1

B100013.00

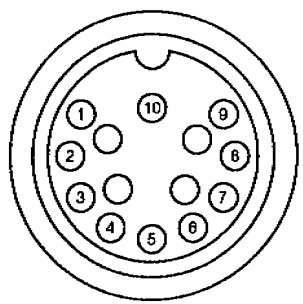


FIG. 2

B250003.00

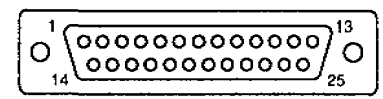


FIG. 3

B060037.00

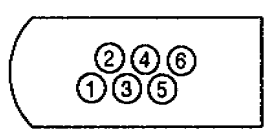


FIG. 4

B060038.00

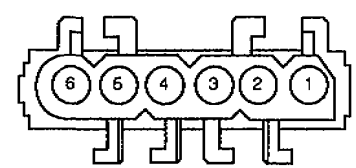


FIG. 1

B880001.00

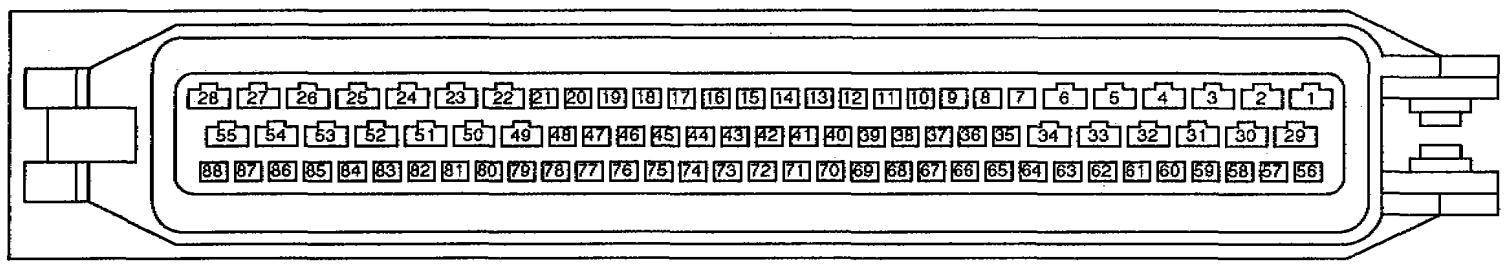


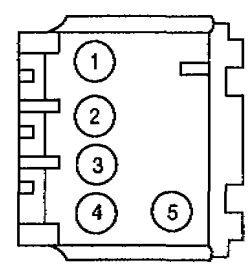
FIG. 2

B030006.00



FIG. 3

B050002.00



CONNECTOR VIEWS

FIG. 1

B120004.05

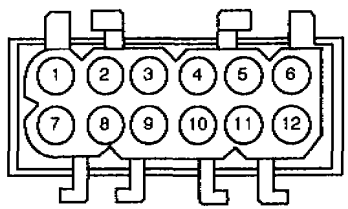


FIG. 2

B060012.00

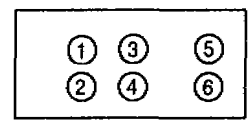


FIG. 3

B040023.00

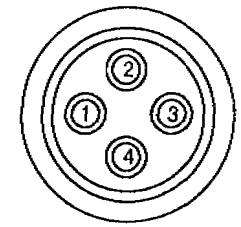


FIG. 4

B030038.00



FIG. 5

B030015.12

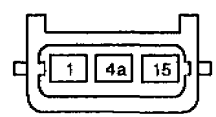


FIG. 6

B040020.00

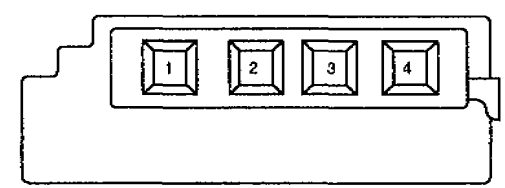


FIG. 1

B090006.01

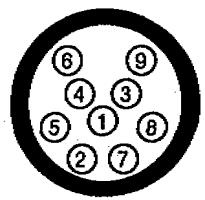


FIG. 2

B030025.00

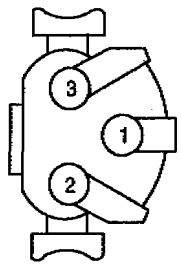


FIG. 3

B060037.01

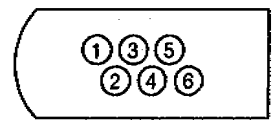


FIG. 4

B060036.00

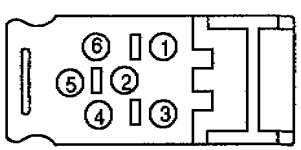


FIG. 5

B030001.00

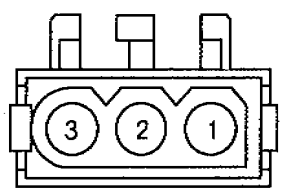
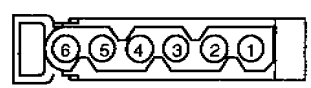
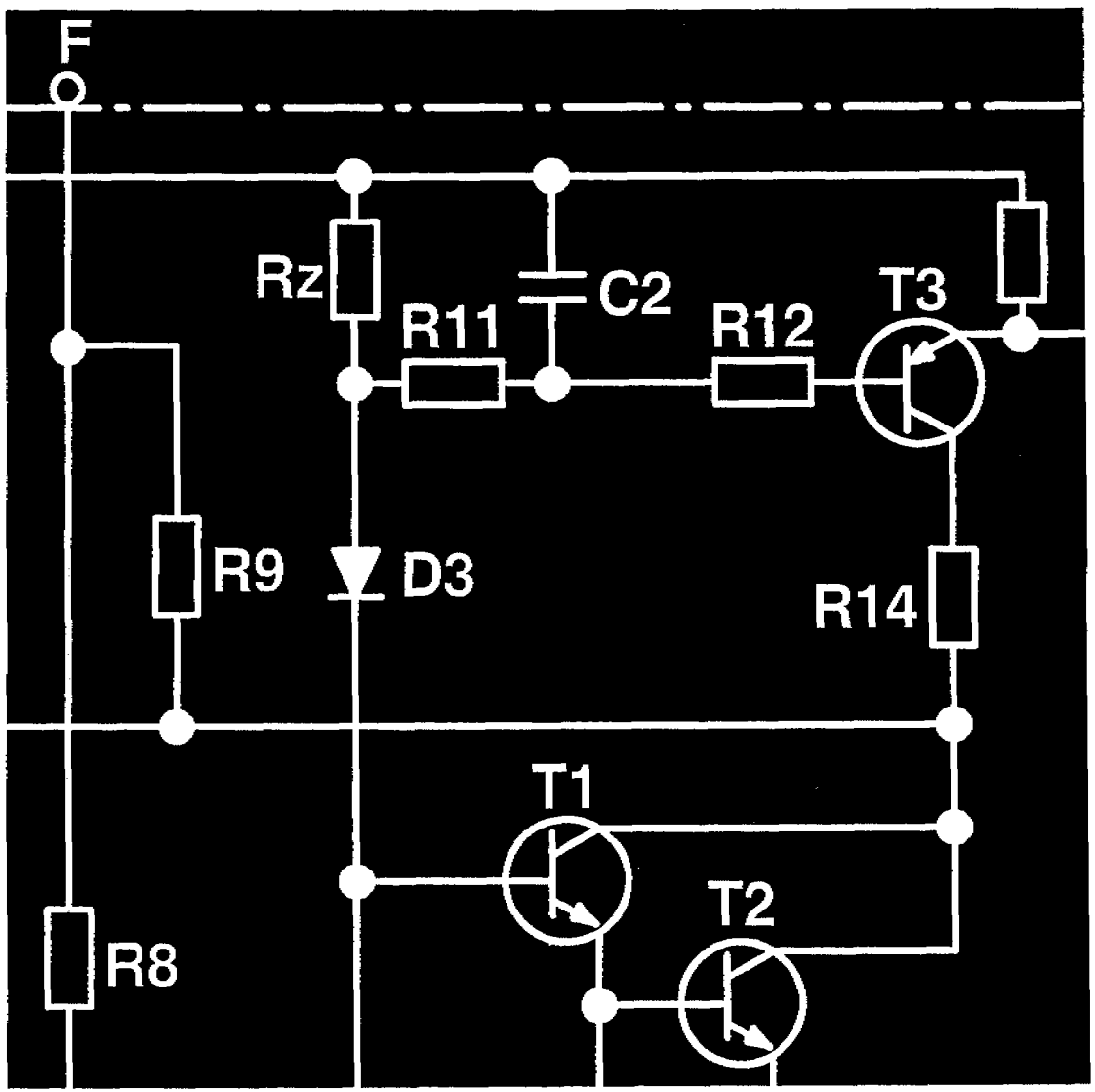


FIG. 6

B060001.00





1994

BMW 318i/s/c, 320i, 325i/s/c, M3 (E36)

Electrical Troubleshooting Manual

Vehicles Produced 9/93 to 8/94

PN 01 00 1 469 217

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

3 SERIES – E36 (318i, 318is, 320i, 325i, 325is, M3, INCL. CONVERTIBLE)

SCHEMATICS MODEL YEAR 1994

0100.0 INDEX
0110.0 INTRODUCTION
0140.0 SYMBOLS
0670.0 POWER DISTRIBUTION CHART
0670.1 FUSE CHART
0670.2 POWER DISTRIBUTION
0670.3 FUSE DETAILS
0670.4 GROUND DISTRIBUTION
0670.5 DATA LINK
1210.9 ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)
1210.10 ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)
1210.13 ENGINE CONTROL SYSTEM (DMEM3.3.1, 6-CYLINDER M50)
1210.14 ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)
1230.0 CHARGING SYSTEM
1240.0 START
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)
2460.4 ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM(AIRBAG)
3450.0 SLIP CONTROL (ABS)
3450.2 SLIP CONTROL (ABS/ASC+T)
5116.0 POWER MIRRORS
5120.0 ZKE DOOR LOCK HEATING (TSH)
5126.0 ZKE CENTRAL LOCKING (ZV)
5133.1 POWER WINDOWS (FH)
5200.0 POWER SEATS
5203.0 HEATED SEATS
5410.1 POWER SUN ROOF (SHD)
5430.0 ELECTRO-MECHANICAL CONVERTIBLETOP
6100.0 CENTRAL BODY ELECTRONICS (ZKE IV)
6133.0 HORN
6160.1 WIPER/WASHER MODULE (WWM)
6167.1 HEADLIGHT WASHER (SRA)
6169.0 WINDSHIELD WASHER JET HEATERS
6211.0 INSTRUMENT CLUSTER
6213.2 MULTI-FUNCTION CLOCK
6214.0 ON-BOARD DISPLAY

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ORDER NUMBER 01 00 1 469 217

SCHEMATICS

6300.0 LIGHT SWITCH DETAILS
6312.0 HEADLIGHTS/FOG LIGHTS
6313.0 TURN/HAZARD LIGHTS
6314.0 PARK/TAIL LIGHTS
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS
6322.0 BACK UP LIGHTS
6325.0 BRAKE LIGHTS
6330.3 INTERIOR LIGHTS
6332.1 GLOVE BOX LIGHT/CASSETTE BOX/ ASHTRAY LIGHT/CHARGING SOCKET/ CIGAR LIGHTER
6350.0 CRASH CONTROL MODULE
6412.5 PARK VENTILATION WITH IHKR
6424.0 REAR WINDOW DEFOGGER
6450.4 INTEGRATED CLIMATE REGULATION (IHKR E36)
6510.0 RADIO/CD PLAYER (PROVISIONS)
6510.1 RADIO/HIFI
6561.0 CELLULAR TELEPHONE (PROVISIONS)
6571.0 CRUISE CONTROL (TEMPOMAT)
6575.2 ANTI-THEFT SYSTEM (ALPINE)
6581.2 ON-BOARD COMPUTER (BC V)
7000.0 COMPONENT LOCATION CHART
7100.0 COMPONENT LOCATION VIEWS
8000.0 SPLICE LOCATION VIEWS
8500.0 CONNECTOR VIEWS

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ABS HYDRAULIC UNIT, Y1 ..... 3450.0-01
ABS HYDRAULIC UNIT, Y1w 3450.2-01
ABS PEDAL TRAVEL SENSOR, S123 ..... 3450.
ABS PUMP MOTOR RELAY, K75 ..... 3450.
ABS RELAY, K10 ..... 3450.
AIR BAG GAS GENERATOR, DRIVER'S, G5 ..... 3234.0-00
AIR BAG GAS GENERATOR I, PASSENGER'S, G6 ..... 3234.0-00
AIR CONDITIONING COMPRESSOR, Y2 ..... 6450.4-05
AIR PUMP, M6133 ..... 1210.14-06
ANTENNA AMPLIFIER AM/FM, N8 ..... 6424.0-00
ANTI-THEFT CONTROL MODULE (ALPINE), N12w 6575.2-00
ANTI-THEFT HORN (ALPINE), H1w 6575.2-02
ANTI-THEFT SYSTEM (ALPINE) 6575.2-00
ASC DIODE, V7 ..... 3450.2-00
ASC SWITCH, S6 ..... 3450.2-02
AUTOMATIC TRANSMISSION RANGE SWITCH, S3 ..... 2460.
AUXILIARY FAN MOTOR, M9 ..... 6450.4-06
AUXILIARY FUSE BOX, P95 ..... 0670.2-04
AUXILIARY THROTTLE POSITION MOTOR (ADS), M93 ..... 3450.2-02
AUXILIARY THROTTLE POSITION SENSOR, R31 ..... 3450.2-04
AUXILIARY TURN LIGHT, LEFT FRONT, H9 ..... 6313.0-02
AUXILIARY TURN LIGHT, RIGHT FRONT, H8 ..... 6313.0-02
BACK UP LIGHTS 6322.0-00
BACK UP LIGHT, LEFT, H27 ..... 6322.0-00
BACK UP LIGHT, RIGHT, H28 ..... 6322.0-00
BATTERY, G1 ..... 0670.2-00
B+ JUMP START JUNCTION POINT, G6430 ..... 0670.2-00
BLOWER MOTOR, M30 ..... 6450.4-01
BLOWER RELAY, K4 ..... 6450.4-00
BLOWER RESISTORS, R11 ..... 6450.4-01
BLOWER SWITCH, S75 ..... 6450.4-01
BODY ELECTRONICS CONTROL MODULE (ZKE IV), A104 ..... 6100.0-00
BRAKE FLUID LEVEL SWITCH, B18 ..... 6211.0-00
BRAKE LIGHT SWITCH, S29 ..... 6325.0-00
BRAKE LIGHT SWITCH, S30 ..... 6325.0-01
BRAKE LIGHTS 6325.0-00
BRAKE LIGHT, LEFT, H24 ..... 6325.0-00
BRAKE LIGHT, RIGHT, H31 ..... 6325.0-00
BRAKE PAD SENSOR, LEFT FRONT, B16 ..... 6211.0-01
BRAKE PAD SENSOR, RIGHT REAR, B17 ..... 6211.0-01
CAMSHAFT ACTUATOR, B6208 ..... 1210.
CAMSHAFT ACTUATOR, Y6208 ..... 1210.10-05
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION), B6204 ..... 1210.
CASSETTE BOX LIGHT, E45y 6300.0-00
CD CHANGER, N22 ..... 6510.1-00
CELLULAR TELEPHONE (PROVISIONS) 6561.0-00
CENTRAL BODY ELECTRONICS (ZKE IV) 6100.0-00
CENTRAL POWER WINDOW SWITCH, S40y 5133.1-03
CHANGE-OVER VALVE, Y5013 ..... 1210.14-06
CHARGING SYSTEM 1230.0-00
CHECK CONTROL MODULE, A4 ..... 6581.2-03
CHILD PROTECTION CONTROL (CONSOLE), S130 ..... 5133.1-02
CHIME MODULE, H10 ..... 6581.2-01
CLUTCH SWITCH, S32 ..... 6525.0-00
COMBINATION SWITCH, S7 ..... 6312.0-00
COMFORT RELAY, K114 ..... 0670.2-08
COMPONENT LOCATION CHART 7000.0-00
COMPONENT LOCATION VIEWS 7100.0-00
COMPRESSOR CONTROL RELAY, K19 ..... 6450.4-05
CONNECTOR VIEWS 8500.0-00
CONTACT RING, C101 ..... 3234.0-00
CONVERTIBLE TOP ACTUATING SWITCH, S143 ..... 5430.0-01
CONVERTIBLE TOP CONTROL MODULE, A96 ..... 5430.0-00
CONVERTIBLE TOP END-POSITION MICRO SWITCH, S164 ..... 5430.0-01
CONVERTIBLE TOP MOTOR, M101 ..... 5430.0-02
CONVERTIBLE TOP POSITION MICRO SWITCH, S165 ..... 5430.0-01
CONVERTIBLE TOP STORAGE LID LOCK MOTOR, M43 ..... 5430.0-02
CONVERTIBLE TOP STORAGE LID MICRO SWITCH, S214 ..... 5430.0-02
CONVERTIBLE TOP STORAGE LID MOTOR, M100 ..... 5430.0-02
CRANKSHAFT POSITION/RPM SENSOR, B6203 ..... 1210.
CRASH CONTROL MODULE, N17 ..... 6350.0-01
CRASH CONTROL MODULE 6350.0-00
CRUISE CONTROL ACTUATOR (TEMPOMAT), M25 ..... 6571.0-01

INDEX

CRUISE CONTROL (TEMPOMAT) 6571.0-00
CRUISE CONTROL MODULE (TEMPOMAT), A8 ..... 6571.0-00
CRUISE CONTROL SWITCH, S28 ..... 6571.0-00
CYL. 1-2 KNOCK SENSOR, B6241 ..... 1210.9-05
CYL. 1-3 KNOCK SENSOR, B6241w ..... 1210.
CYL. 1 FUEL INJECTION VALVE, Y6101 ..... 1210.
CYL. 1-6 FUEL PUMP RELAY, K6301 ..... 1210.
CYL. 1 IGNITION COIL, T6151 ..... 1210.
CYL. 2 FUEL INJECTION VALVE, Y6102 ..... 1210.
CYL. 2 IGNITION COIL, T6152 ..... 1210.
CYL. 3 FUEL INJECTION VALVE, Y6103 ..... 1210.
CYL. 3-4 KNOCK SENSOR, B6242 ..... 1210.9-05
CYL. 3 IGNITION COIL, T6153 ..... 1210.
CYL. 4 FUEL INJECTION VALVE, Y6104 ..... 1210.
CYL. 4-6 KNOCK SENSOR, B6242w ..... 1210.
CYL. 4 IGNITION COIL, T6154 ..... 1210.
CYL. 5 FUEL INJECTION VALVE, Y6105 ..... 1210.
CYL. 5-6 KNOCK SENSOR, B6243 ..... 1210.14-05
CYL. 5 IGNITION COIL, T6155 ..... 1210.
CYL. 6 FUEL INJECTION VALVE, Y6106 ..... 1210.
CYL. 6 IGNITION COIL, T6156 ..... 1210.
DASH VENT MIXING FLAP MOTOR, M34 ..... 6450.4-04
DATA LINK 0670.5-00
DATA LINK CONNECTOR, D100 ..... 0670.5-00
DAYTIME RUNNING LIGHTS CODING DIODE, V4 ..... 6314.0-02
DIMMER, N3 ..... 6300.0-00
DIVERSITY, N404 ..... 6424.0-03
DOOR JAMB SWITCH, LEFT REAR, S16 ..... 6330.3-01
DOOR JAMB SWITCH, DRIVER'S, S14 ..... 6330.3-01
DOOR JAMB SWITCH, PASSENGER'S, S13 ..... 6330.3-01
DOOR LOCK HEATER, E48 ..... 5120.0-00
DOOR LOCK MOTOR, DRIVER'S, M12 ..... 5126.0-00
DOOR LOCK MOTOR, LEFT REAR, M15 ..... 5126.0-01
DOOR LOCK MOTOR, PASSENGER'S, M13 ..... 5126.0-00
DOOR LOCK MOTOR, RIGHT REAR, M14 ..... 5126.0-01
DOUBLE RELAY, K5029 ..... 1210.14-00
ELECTRO-MECHANICAL CONVERTIBLE TOP 5430.0-00
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 2460.2-00
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z) 2460.4-00
ENGINE CONTROL MODULE (DME), A6000 ..... 1210.
ENGINE CONTROL MODULE RELAY, K6300 ..... 1210.
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42) ... 1210.9-00
ENGINE CONTROL SYSTEM
(DME M3.3, 6-CYLINDER S50 B30) 1210.14-00
ENGINE CONTROL SYSTEM
(DME M3.3.1, 6-CYLINDER M50) 1210.13-00
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50) 1210.10-00
ENGINE COOLANT LEVEL SWITCH, S63 ..... 6581.2-03
ENGINE COOLANT TEMPERATURE SENSOR, B6232 ..... 6211.0-02
ENGINE COOLANT TEMPERATURE SENSOR, B6236 ..... 1210.
ENGINE HOOD SWITCH, S21w 6575.2-02
EVAPORATIVE EMISSION VALVE, Y6120 ..... 1210.
EVAPORATOR TEMPERATURE SENSOR, B14 ..... 6450.4-03
FM AMPLIFIER HLO, N444 ..... 6424.0-03
FOG LIGHT, LEFT, E26 ..... 6312.0-00
FOG LIGHT, LEFT REAR, H26 ..... 6312.0-02
FOG LIGHT, RIGHT, E27 ..... 6312.0-00
FOG LIGHT SWITCH, S10 ..... 6312.0-00
FRESH AIR FLAP MOTOR, M36 ..... 6450.4-04
FRONT ASHTRAY LIGHT, E25 ..... 6332.1-00
FRONT CIGAR LIGHTER, E28 ..... 6332.1-00
FRONT CIGAR LIGHTER LIGHT, E29 ..... 6300.0-03
FRONT DOME LIGHT/MAP READING ASSEMBLY, E34 ..... 6330.3-00
FRONT FOG LIGHT RELAY, K47 ..... 6312.0-00
FRONT POWER DISTRIBUTION BOX, P90 ..... 0670.2-00
FUEL LEVEL SENSOR, B6 ..... 6211.0-04
FUEL PUMP, M2 ..... 1210.
FUEL PUMP RELAY, K6301w 1210.9-03
FUEL PUMP/START IDENTIFICATION RELAY, K6307 ..... 1210.14-02
FUEL TANK SENSOR II, B25y 6211.0-04
FUSE CHART 0670.1-00
FUSE DETAILS 0670.3-00
GAS FILLER LOCK MOTOR, M16 ..... 5126.0-01
GENERATOR, G6509 ..... 1230.0-00

GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER 6332.1-00
GLOVE BOX LOCK MOTOR, M107 ..... 5126.0-01
GLOVE BOX LIGHT/SWITCH, E42y 6332.1-00
GROUND DISTRIBUTION 0670.4-00
HALL EFFECT CAMSHAFT SENSOR, B6209 ..... 1210.13-01
HARD TOP CONNECTOR 1, E99 ..... 5430.0-00
HARD TOP CONNECTOR 2, E100y 6330.3-03
HAZARD FLASHER RELAY, K16 ..... 6313.0-00
HAZARD SWITCH, S18 ..... 6313.0-01
HEADLIGHT/FOG LIGHT WASHER PUMP, M7 ..... 6167.1-00
HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA), N6 ..... 6167.1-00
HEADLIGHT, LEFT, E7 ..... 6313.0-02
HEADLIGHT, RIGHT, E8 ..... 6313.0-02
HEADLIGHT WASHER (SRA) 6167.1-00
HEADLIGHTS/FOG LIGHTS 6312.0-00
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 ..... 6450.4-03
HEAT EXCHANGER TEMPERATURE SENSOR, RH, B12 ..... 6450.4-03
HEATED OXYGEN SENSOR, B6200 ..... 1210.
HEATED OXYGEN SENSOR 2, B5028 ..... 1210.14-06
HEATED SEATS 5203.0-00
HIFI AMPLIFIER, A18 ..... 6510.1-00
HIGH BEAM LIGHT, LEFT, E11 ..... 6312.0-01
HIGH BEAM LIGHT, RIGHT, E12 ..... 6312.0-01
HIGH BEAM LIGHT RELAY, K46 ..... 6312.0-01
HIGH LEVEL STOP LIGHT, H34 ..... 6325.0-00
HIGH RANGE SPEAKER, LEFT FRONT H59 ..... 6510.1-01
HIGH RANGE SPEAKER, LEFT REAR, H56 ..... 6510.1-01
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.0-00
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.1-02
HIGH RANGE SPEAKER, RIGHT REAR, H53 ..... 6510.1-02
HIGH SPEED RELAY, K22 ..... 6450.4-06
HORN 6133.0-00
HORN, LEFT, H2 ..... 6133.0-00
HORN, RIGHT, H3 ..... 6133.0-00
HORN RELAY, K2 ..... 6133.0-00
HORN RELAY (ALPINE), K108 ..... 6575.2-02
HORN SWITCH, S4 ..... 6133.0-00
HOT FILM AIR MASS METER, B6217 ..... 1210.13-05
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.
IGNITION SWITCH, S2 ..... 0670.2-05
IHKR CONTROL PANEL, S134y 6450.4-02
INDEX 0100.0-00
INERTIA SWITCH, S27 ..... 5126.0-02
INSTRUMENT CLUSTER, A2 ..... 6211.0-00
INSTRUMENT CLUSTER 6211.0-00
INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131 ..... 1210.9-01
INTAKE AIR TEMPERATURE SENSOR, B6205 ..... 1210.
INTEGRATED CLIMATE REGULATION (IHKR E36) 6450.4-00
INTEGRATED CLIMATE REGULATION CONTROL MODULE, A87y 6450.4-00
INTENSIVE WASH PUMP, M5 ..... 6160.1-01
INTERIOR LIGHTS 6330.3-00
INTERIOR LIGHT, LEFT REAR, E39 ..... 6330.3-00
INTERIOR LIGHT, RIGHT REAR, E40 ..... 6330.3-00
INTRODUCTION 0110.0-00
JET HEATER THERMOSWITCH, S198 ..... 6169.0-00
KICK-DOWN SWITCH, S8507 ..... 2460.2-04
LICENSE PLATE LIGHT, LEFT, E43 ..... 6320.0-00
LICENSE PLATE LIGHT, RIGHT, E44 ..... 6320.0-00
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS 6320.0-00
LIGHT SWITCH, S8 ..... 6300.0-00
LIGHT SWITCH DETAILS 6300.0-00
LOW BEAM LIGHT, RIGHT, E14 ..... 6312.0-01
LOW BEAM LIGHT, LEFT, E13 ..... 6312.0-01
LOW BEAM LIGHT RELAY, K48 ..... 6312.0-01
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.0-00
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.1-01
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.0-00
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.1-02
LOW RANGE SPEAKER, LEFT REAR, H57 ..... 6510.1-01
LOW RANGE SPEAKER, RIGHT REAR, H52 ..... 6510.1-02
MAKEUP MIRROR LIGHT, DRIVER'S, E35 ..... 6330.3-00
MAKEUP MIRROR LIGHT, PASSENGER'S, E36 ..... 6330.3-00

INDEX

MAKEUP MIRROR SWITCH, DRIVER'S, S77 ..... 6330.3-00
MAKEUP MIRROR SWITCH, PASSENGER'S, S78 ..... 6330.3-00
MICROPHONE, B400 ..... 6561.0-00
MID-HIGH RANGE SPEAKER, LEFT, H42 ..... 6510.1-01
MID-HIGH RANGE SPEAKER, RIGHT, H43 ..... 6510.1-02
MIDRANGE SPEAKER, LEFT FRONT, H55 ..... 6510.1-01
MIDRANGE SPEAKER, RIGHT FRONT, H54 ..... 6510.1-02
MIRROR CONTROL SWITCH, S17 ..... 5116.0-00
MIRROR, DRIVER'S SIDE, Y5 ..... 5116.0-01
MIRROR, PASSENGER'S SIDE, Y6 ..... 5116.0-01
MIXING SWITCH, R1 ..... 6450.4-03
MULTI-FUNCTION CLOCK, N10 ..... 6213.2-00
MULTI-FUNCTION CLOCK 6213.2-00
NORMAL SPEED RELAY, K21 ..... 6450.4-06
OIL PRESSURE SWITCH, B6231 ..... 6211.0-00
OIL TEMPERATURE SENSOR, B6238 ..... 6211.0-04
ON-BOARD COMPUTER, N4 ..... 6581.2-00
ON-BOARD COMPUTER (BC V) 6581.2-00
ON-BOARD COMPUTER TEMPERATURE SENSOR, B21 ..... 6581.2-00
ON-BOARD DISPLAY, A35 ..... 6214.0-00
ON-BOARD DISPLAY 6214.0-00
OUTSIDE TEMPERATURE SENSOR, B13 ..... 6450.4-03
OXYGEN SENSOR RELAY, K6303 ..... 1210.
PARK BRAKE SWITCH, S31 ..... 6211.0-00
PARK LIGHT, LEFT, E15 ..... 6314.0-01
PARK LIGHT, RIGHT, E19 ..... 6314.0-01
PARK LIGHT/LICENSE PLATE LIGHT RELAY, RIGHT, K25 ..... 6314.0-02
PARK LIGHT RELAY, LEFT, K26 ..... 6314.0-02
PARK/TAIL/UNDERHOOD LIGHTS 6314.0-00
PARK VENTILATION RELAY, K450 ..... 6412.5.0-00
PARK VENTILATION WITH IHKR 6412.5-00
POWER DISTRIBUTION 0670.2-00
POWER DISTRIBUTION CHART 0670.0-00
POWER MIRRORS 5116.0-00
POWER SEATS 5200.0-00
POWER SUN ROOF (SHD) 5410.0-00
POWER WINDOWS (FH) 5133.1-00
POWER WINDOW SWITCH, DRIVER'S, S126y 5133.1-01
POWER WINDOW SWITCH, PASSENGER'S, S127y 5133.1-01
PRESSURE SWITCH, B9508 ..... 6450.4-06
PROGRAM SWITCH, S8503 ..... 2460.
RADIO, N9 ..... 6510.0-00
RADIO/CD PLAYER (PROVISIONS) 6510.0-00
RADIO/HIFI 6510.1-00
RADIO MICROSWITCH, S20y 6575.2-02
REAR ASHTRAY LIGHT, E28y 6300.0-03
REAR DEFOGGER/ANTENNA, E10 ..... 6424.0-02
REAR DEFOGGER RELAY, K13 ..... 6424.0-00
REAR DOOR (CONSOLE) POWER WINDOW SWITCH, LH, S128y 5133.1-02
REAR DOOR (CONSOLE) POWER WINDOW SWITCH, RH, S129y 5133.1-02
REAR FOG LIGHT SWITCH, S82 ..... 6312.0-02
REAR POWER WINDOW SWITCH, LH, S128z 5133.1-03
REAR POWER WINDOW SWITCH, RH, S129z 5133.1-03
REAR RIGHT DOOR JAMB SWITCH, S15 ..... 6330.3-01
REAR WINDOW BLOWER, M105 ..... 6424.0-01
REAR WINDOW BLOWER MICRO SWITCH, S196 ..... 5430.0-01
REAR WINDOW BLOWER RELAY, K99 ..... 6424.0-01
REAR WINDOW DEFOGGER 6424.0-00
RECIRCULATION FLAP MOTOR, M40 ..... 6450.4-04
RESISTOR, R8554 ..... 1210.13-04
REVERSING LIGHT SWITCH, S8511 ..... 6322.0-00
ROLLOVER PROTECTION ACTUATOR, RH, Y86 ..... 5430.0-03
ROLLOVER PROTECTION ACTUATOR, LH, Y85 ..... 5430.0-03
ROLLOVER SENSOR, N24 ..... 5430.0-03
SEAT BELT SWITCH, DRIVER'S S58 ..... 3234.0-00
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-00
SEAT HEATER, DRIVER'S, E57 ..... 5203.0-00
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.0-00
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-00
SEATBACK HEATER, DRIVER'S, E56 ..... 5203.0-00
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-00
SEAT CONTROL SWITCH, DRIVER'S SEAT, S51 ..... 5200.0-00

SEAT HEATER SWITCH, DRIVER'S SEAT, S53 ..... 5203.0-00
SEAT OCCUPANCY DETECTOR, A113 ..... 3234.0-00
SEAT BELT SWITCH, PASSENGER'S, S59 ..... 3234.0-00
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 ..... 5200.0-01
SEAT HEATER, PASSENGER'S, E58 ..... 5203.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 ..... 5200.0-01
SEATBACK HEATER, PASSENGER'S, E59 ..... 5203.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 ..... 5200.0-01
SEAT CONTROL SWITCH, PASSENGER'S SEAT, S56 ..... 5200.0-01
SEAT HEATER SWITCH, PASSENGER'S SEAT, S54 ..... 5203.0-00
SHIFT-LOCK, Y19 ..... 2460.2-04
SLIP CONTROL (ABS/ASC+T) 3450.2-00
SLIP CONTROL (ABS) 3450.0-00
SLIP CONTROL MODULE (ABS/ASC), A52 ..... 3450.2-01
SLIP CONTROL MODULE (ABS), A7 ..... 3450.0-00
SPEAKER, LEFT REAR, H46 ..... 6510.1-01
SPEAKER, RIGHT REAR, H45 ..... 6510.0-00
SPEAKER, RIGHT REAR, H45 ..... 6510.1-02
SPEED SENSOR - ABS, LEFT REAR B4 ..... 3450.
SPEED SENSOR - ABS, RIGHT REAR, B3 ..... 3450.
SPEED SENSOR - ABS, LEFT FRONT, B2 ..... 3450.
SPEED SENSOR - ABS, RIGHT FRONT, B1 ..... 3450.
START 1240.0-00
STARTER, M6510 ..... 1240.0-01
STARTER IMMOBILIZATION RELAY, K1w 1240.0-03
STARTER RELAY, K1 ..... 1240.0-01
SUNROOF CONTROL ASSEMBLY, A56 ..... 5410.1-01
SUNROOF MOTOR, M24 ..... 5410.1-01
SUNROOF SWITCH, S38 ..... 5410.1-01
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0-00
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 ..... 3234.0-00
SUPPRESSION FILTER, C900 ..... 6424.0-01
SYMBOLS 0140.0-00
TAIL LIGHT, LEFT, H25 ..... 6314.0-01
TAIL LIGHT, LEFT, H37 ..... 6314.0-01
TAIL LIGHT, RIGHT, H30 ..... 6314.0-01
TAIL LIGHT, RIGHT, H39 ..... 6314.0-01
TELEPHONE HANDSET, U4 ..... 6561.0-00
TELEPHONE TRANSCEIVER, H38 ..... 6561.0-00
TEMPERATURE SWITCH, S36 ..... 6450.4-06
THROTTLE FLAP HEATER, E104 ..... 3450.2-02
THROTTLE POSITION SENSOR, R6252 ..... 1210.9-05
TRANSMISSION CONTROL MODULE (EGS), A7000 ..... 2460.4-00
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 2460.2-03
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2-01
TRANSMISSION VALVE UNIT, Y8505y 2460.4-01
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0-00
TRUNK COMPARTMENT LIGHT, LEFT, E101 ..... 6320.0-00
TRUNK COMPARTMENT LIGHT, RIGHT, E102 ..... 6320.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2-04
TRUNK LID MICRO SWITCH, S213 ..... 5430.0-02
TRUNK LID RELAY, K117 ..... 5126.0-01
TRUNK LIGHT SWITCH, S61y 6320.0-00
TRUNK LOCK MOTOR, M17 ..... 5126.2-01
TURN/HAZARD LIGHTS 6313.0-00
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0-02
TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
TWIN RELAY MODULE, N21 ..... 6160.1-01

UNCOUPLING DIODE (KL61), V9501 ..... 1210.14
UNDERHOOD LIGHT, E20 ..... 6300.0-00
UNDERHOOD LIGHT SWITCH, S19 ..... 6300.0-00
UNLOADER RELAY, TERMINAL 15, K9 ..... 5203.0-00
VARIABLE CAMSHAFT CONTROL MODULE (VANOS), A5024 .. 1210.14-04
VARIABLE CAMSHAFT CONTROL SENSOR 1, B5022 ..... 1210.14-04
VARIABLE CAMSHAFT CONTROL SENSOR 2, B5023 ..... 1210.14-04
VARIABLE CAMSHAFT CONTROL VALVE 1, Y5020 ..... 1210.14-04
VARIABLE CAMSHAFT CONTROL VALVE 2, Y5021 ..... 1210.14-04
VEHICLE SPEED SENSOR, B10 ..... 6211.0-04
VOLUME AIR FLOW SENSOR, B6233 ..... 1210.9-05
WASHER FLUID LEVEL SWITCH, S64 ..... 6581.2-03
WASHER JET HEATER, LEFT, E51 ..... 6169.0-00
WASHER JET HEATER, RIGHT, E52 ..... 6169.0-00
WASHER PUMP, M4 ..... 6160.1-01
WATER VALVE ASSEMBLY, Y4 ..... 6450.4-02
WINDOW MOTOR, DRIVER'S, M21 ..... 5133.1-04
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.1-05
WINDOW MOTOR, LEFT REAR, M98 ..... 5133.1-05
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.1-05
WINDOW MOTOR, RIGHT REAR, M99 ..... 5133.1-05
WINDOW SWITCH, RIGHT REAR, S42 ..... 5133.1-02
WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.1-04
WINDOW SWITCH, LEFT REAR, S41 ..... 5133.1-02
WIPER MOTOR, M3 ..... 6160.1-00
WIPER MOTOR RELAY, K53 ..... 6160.1-00
WIPER RELAY, K11 ..... 6160.1-00
WIPER/WASHER MODULE, A51 ..... 6160.1-01
WIPER/WASHER MODULE (WWM) 6160.1-00
WIPER/WASHER SWITCH, S5 ..... 6160.1-01

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, line branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

All circuit symbols used are listed and explained in cell **0140.0 Symbols.**

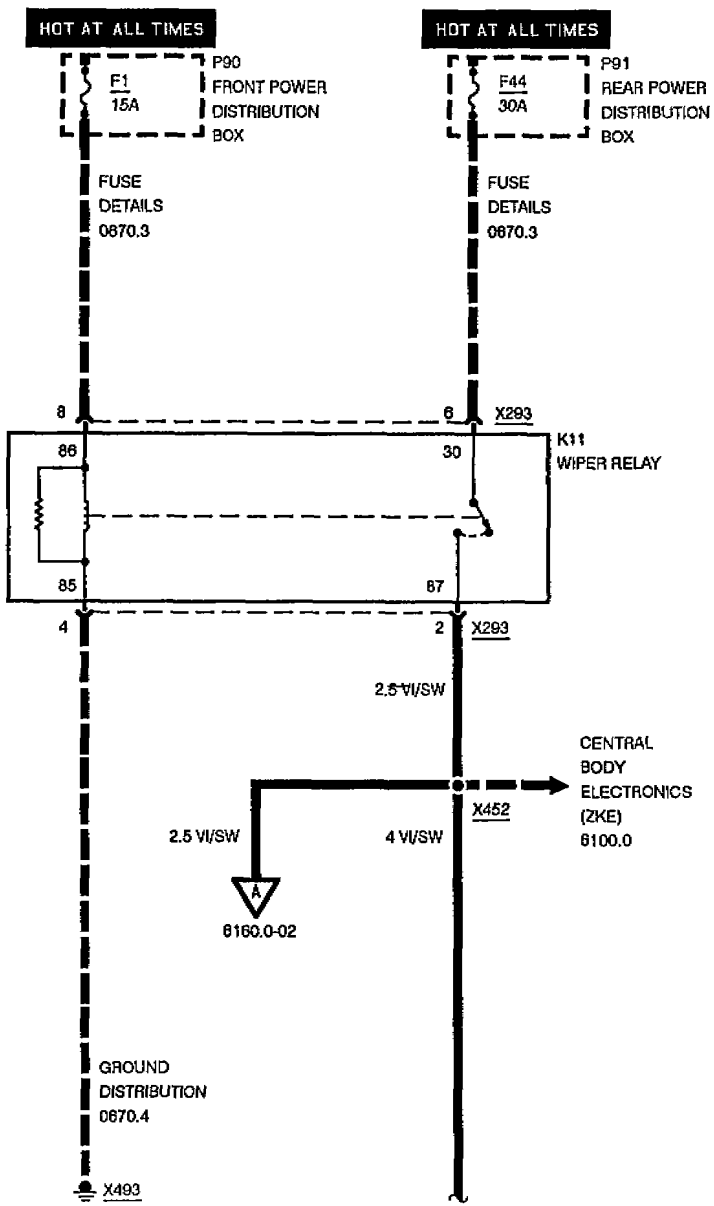
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC etc.) which helps understand the relationships between various components and control modules of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

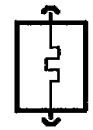
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE).** An interrupted line with an arrow indicates that only this one wire leads to another circuit.

7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.

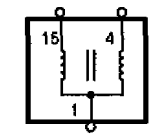
8. The interrupted line from splice X452 with an A in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

SYMBOLS


BATTERY


HEATING ELEMENT


VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



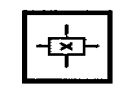
IGNITION COIL


CONTROL/POWER ELECTRONICS


FUSE DETAILS


LOUDSPEAKER OR HORN


VARIABLE RESISTOR
RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


HALL EFFECT SENSOR


FUSIBLE LINK


LIGHT

DIODE
CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


RADIO


THERMO SWITCH



PERMANENT MAGNET MOTOR
ONE SPEED


ZENER DIODE
TO REGULATE VOLTAGE



TRANSISTORIZED SWITCH

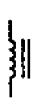
SOLENOID



PERMANENT MAGNET MOTOR
TWO SPEEDS


LIGHT EMITTING DIODE

INDUCTIVE SENSOR


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID

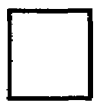

KNOCK SENSOR

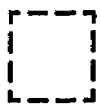

OXYGEN SENSOR

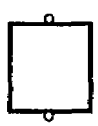


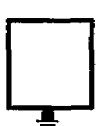
VEHICLE SPEED SENSOR

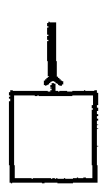
SYMBOLS

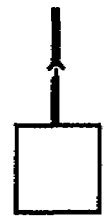

ENTIRE COMPONENT SHOWN

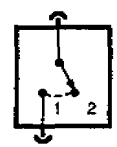

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

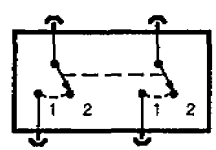

COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)


CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



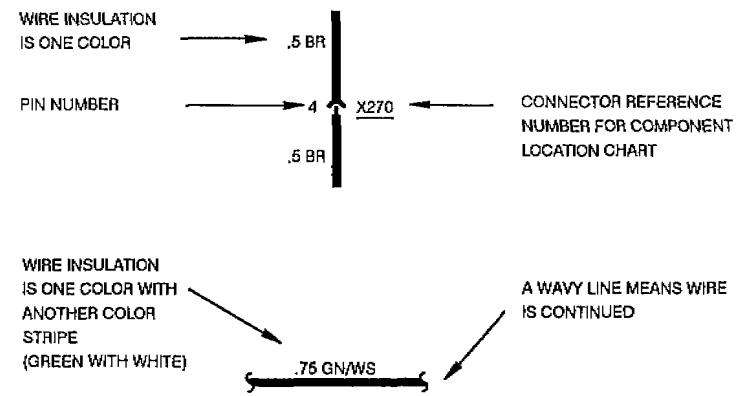
ONE POLE, TWO POSITION SWITCH

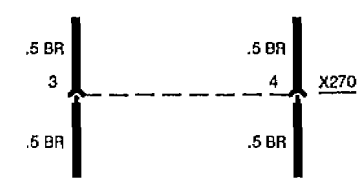


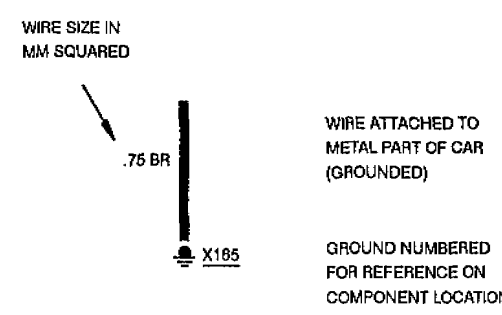
SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

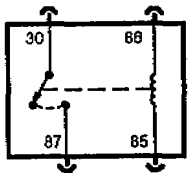
WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT



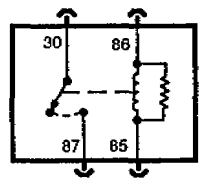




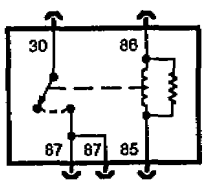
SYMBOLS



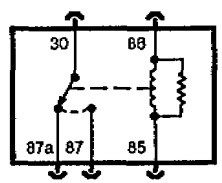
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

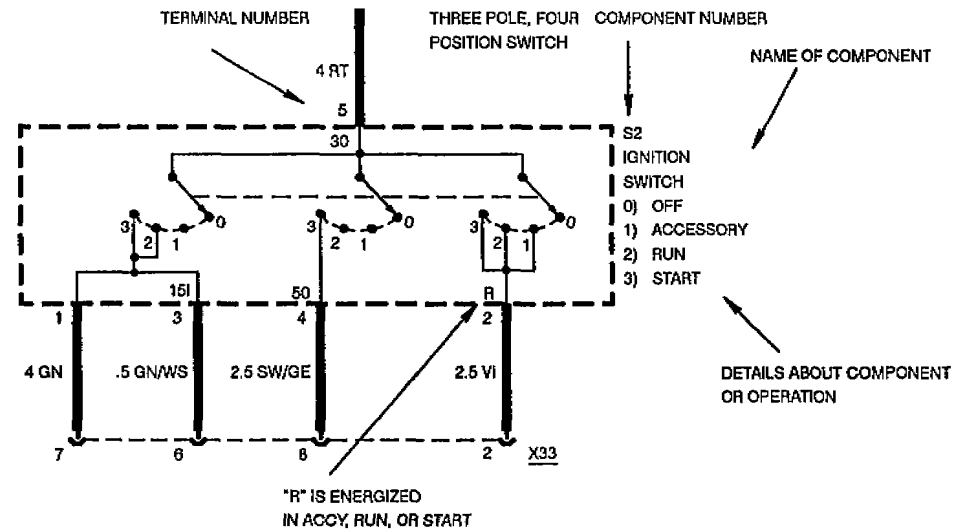


CONTACT RELAY WITH TWO OUTPUTS

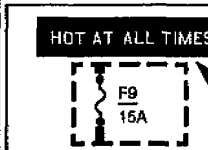


CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)



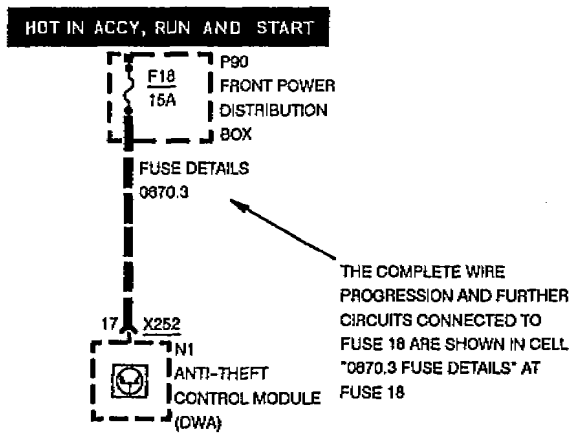
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

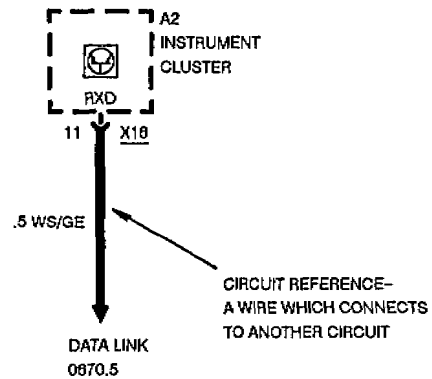


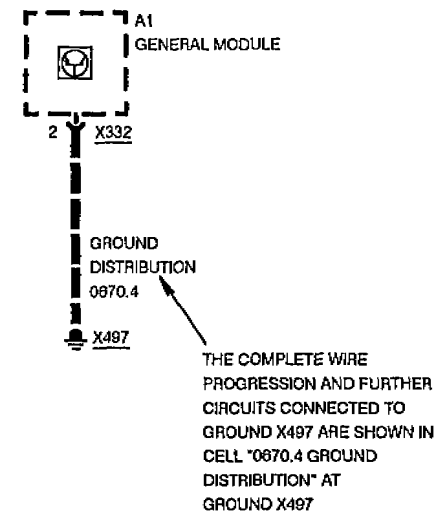
INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

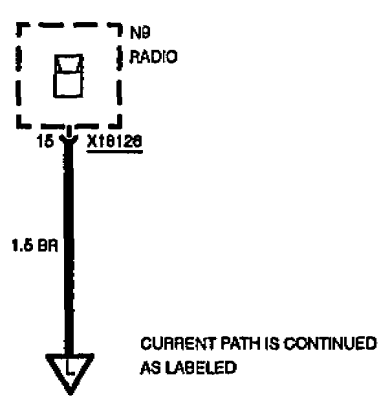
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

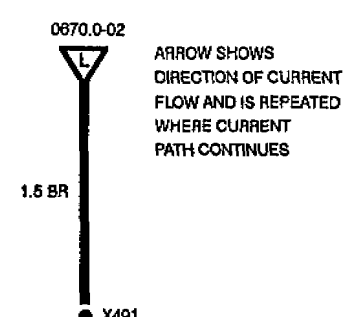
SYMBOLS

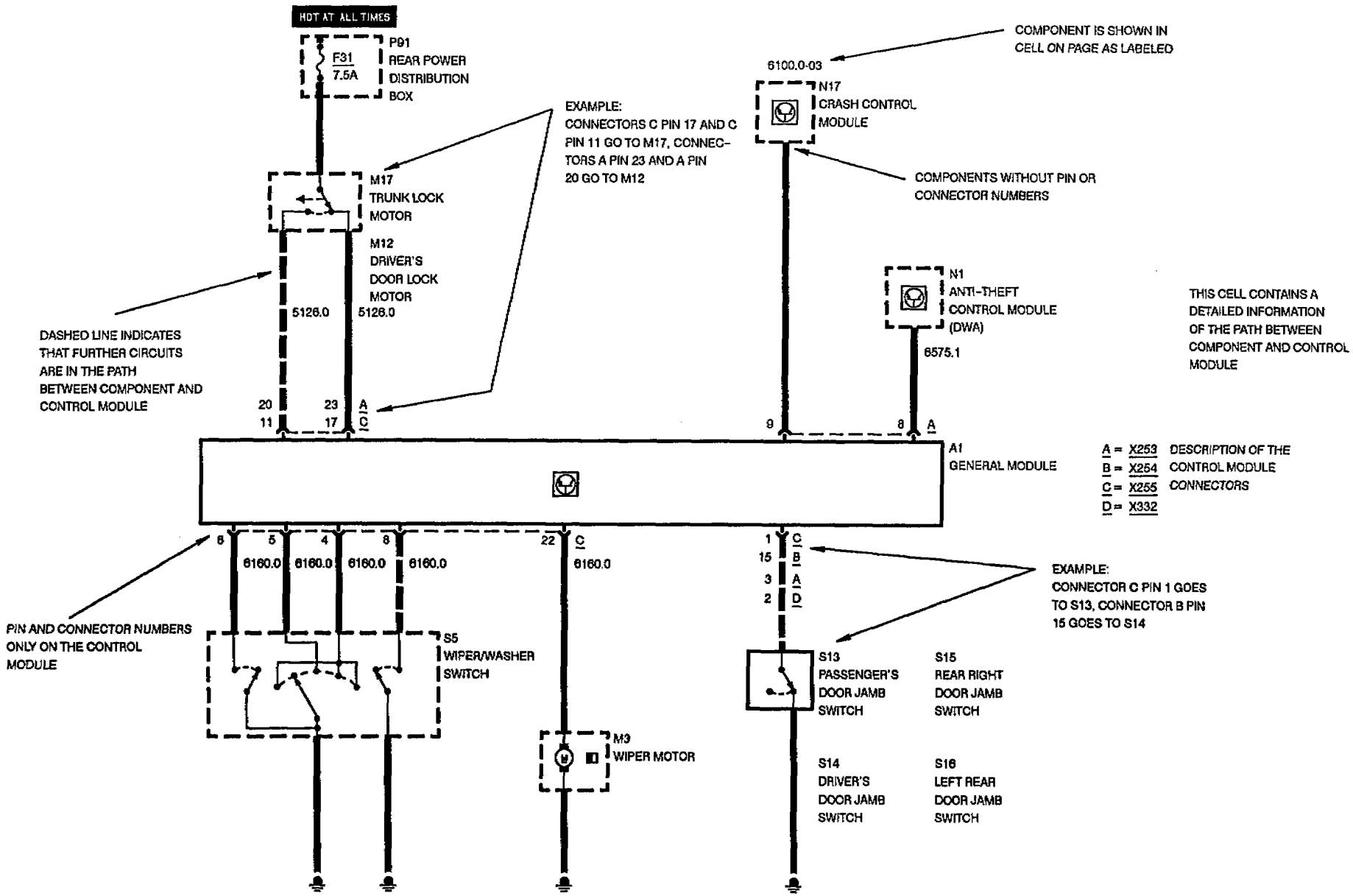

HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18
17
X252
N1
ANTI-THEFT
CONTROL MODULE
(DWA)


A2
INSTRUMENT
CLUSTER
RXD
11
X18
.5 WS/GE
CIRCUIT REFERENCE–
A WIRE WHICH CONNECTS
TO ANOTHER CIRCUIT
DATA LINK
0670.5


A1
GENERAL MODULE
2
X332
GROUND
DISTRIBUTION
0670.4
X497
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497

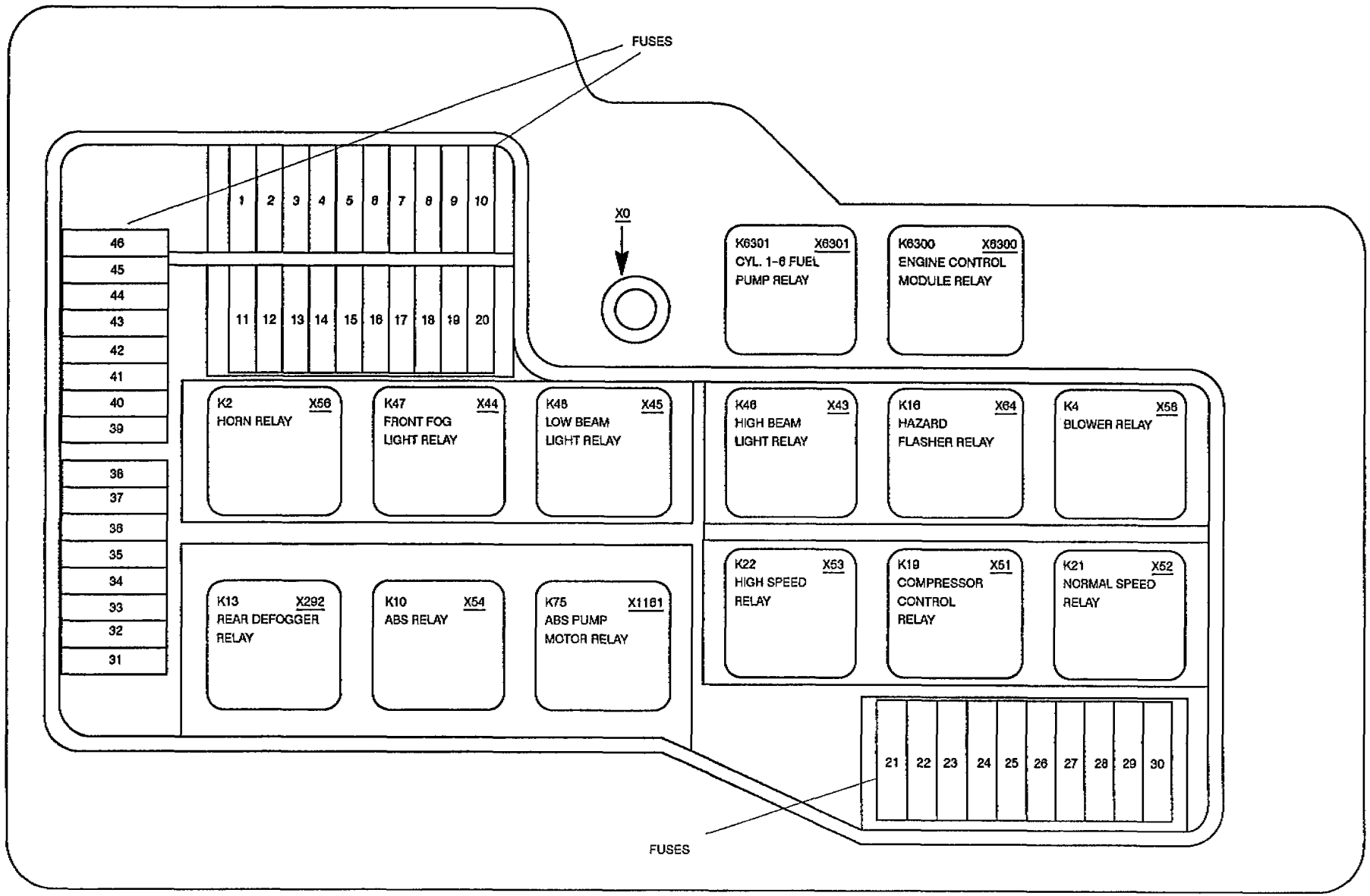

N9
RADIO
15
X18128
1.5 BR
L
CURRENT PATH IS CONTINUED
AS LABELED
0670.0-03


0670.0-02
L
ARROW SHOWS
DIRECTION OF CURRENT
FLOW AND IS REPEATED
WHERE CURRENT
PATH CONTINUES
1.5 BR
X491


HOT AT ALL TIMES
P91
REAR POWER DISTRIBUTION BOX
F31
7.5A
COMPONENT IS SHOWN IN CELL ON PAGE AS LABELED
6100.0-03
N17
CRASH CONTROL MODULE
EXAMPLE:
CONNECTORS C PIN 17 AND C PIN 11 GO TO M17, CONNECTORS A PIN 23 AND A PIN 20 GO TO M12
COMPONENTS WITHOUT PIN OR CONNECTOR NUMBERS
M17
TRUNK LOCK MOTOR
M12
DRIVER'S DOOR LOCK MOTOR
5126.0
5126.0
N1
ANTI-THEFT CONTROL MODULE (DWA)
6575.1
THIS CELL CONTAINS A DETAILED INFORMATION OF THE PATH BETWEEN COMPONENT AND CONTROL MODULE
DASHED LINE INDICATES THAT FURTHER CIRCUITS ARE IN THE PATH BETWEEN COMPONENT AND CONTROL MODULE
20
11
23
17
A
C
9
8
A
A1
GENERAL MODULE
A = X253 DESCRIPTION OF THE
B = X254 CONTROL MODULE
C = X255 CONNECTORS
D = X332
6
5
4
8
22
C
6160.0
6160.0
6160.0
6160.0
6160.0
1
15
3
2
C
B
A
D
EXAMPLE:
CONNECTOR C PIN 1 GOES TO S13, CONNECTOR B PIN 15 GOES TO S14
PIN AND CONNECTOR NUMBERS ONLY ON THE CONTROL MODULE
S5
WIPER/WASHER SWITCH
M3
WIPER MOTOR
S13
PASSENGER'S DOOR JAMB SWITCH
S15
REAR RIGHT DOOR JAMB SWITCH
S14
DRIVER'S DOOR JAMB SWITCH
S16
LEFT REAR DOOR JAMB SWITCH

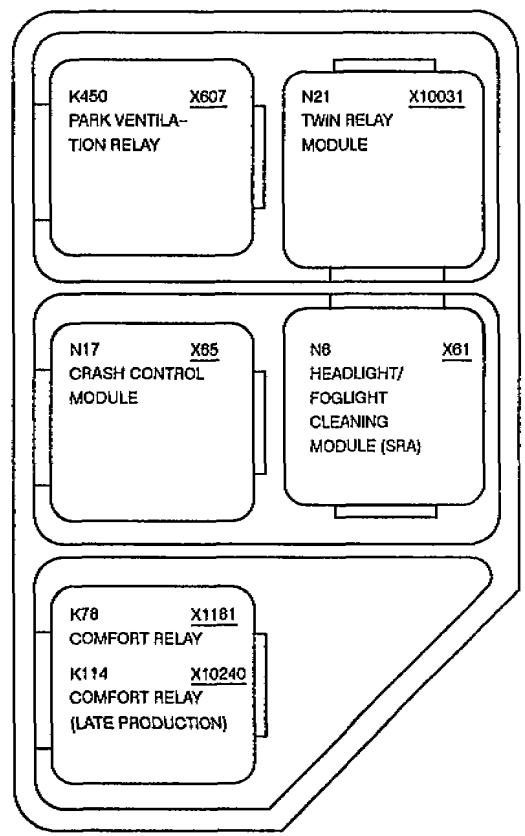
POWER DISTRIBUTION CHART

P90 FRONT POWER DISTRIBUTION BOX



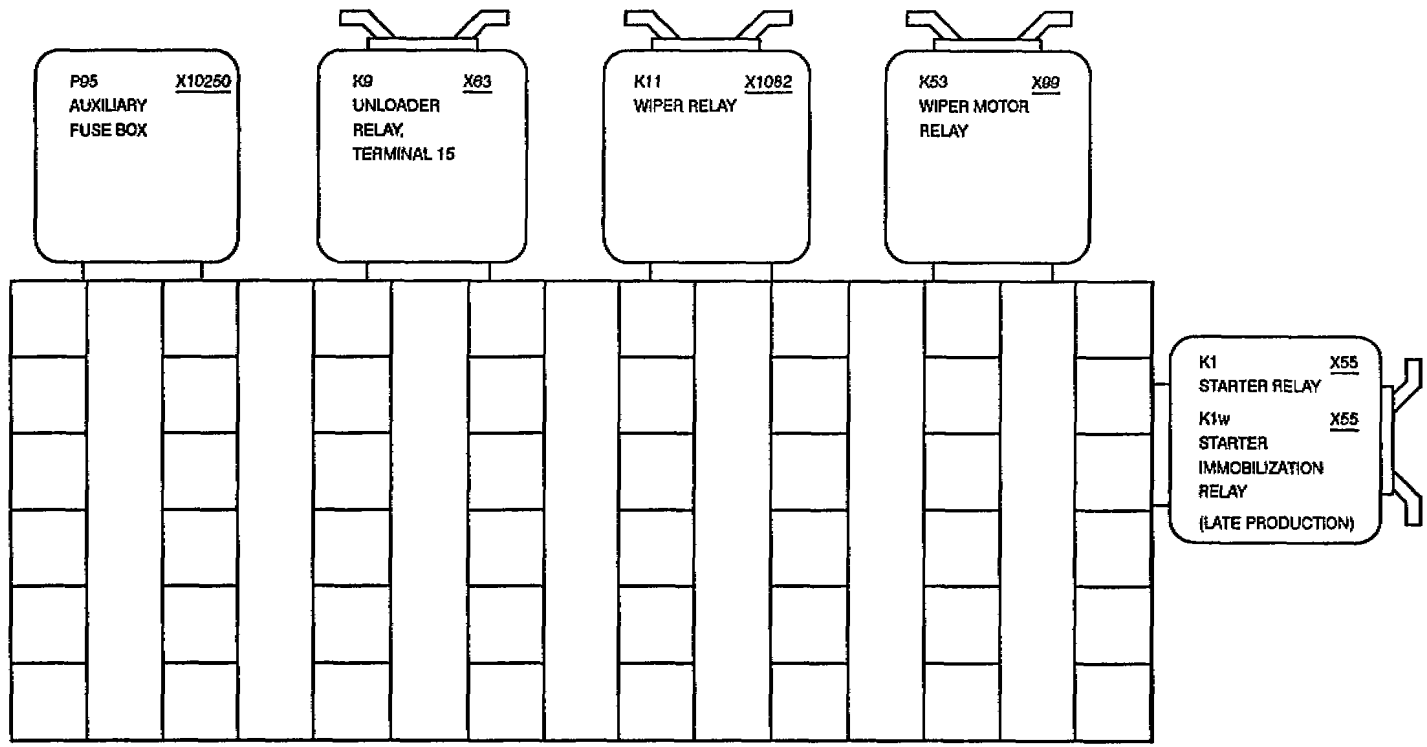
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



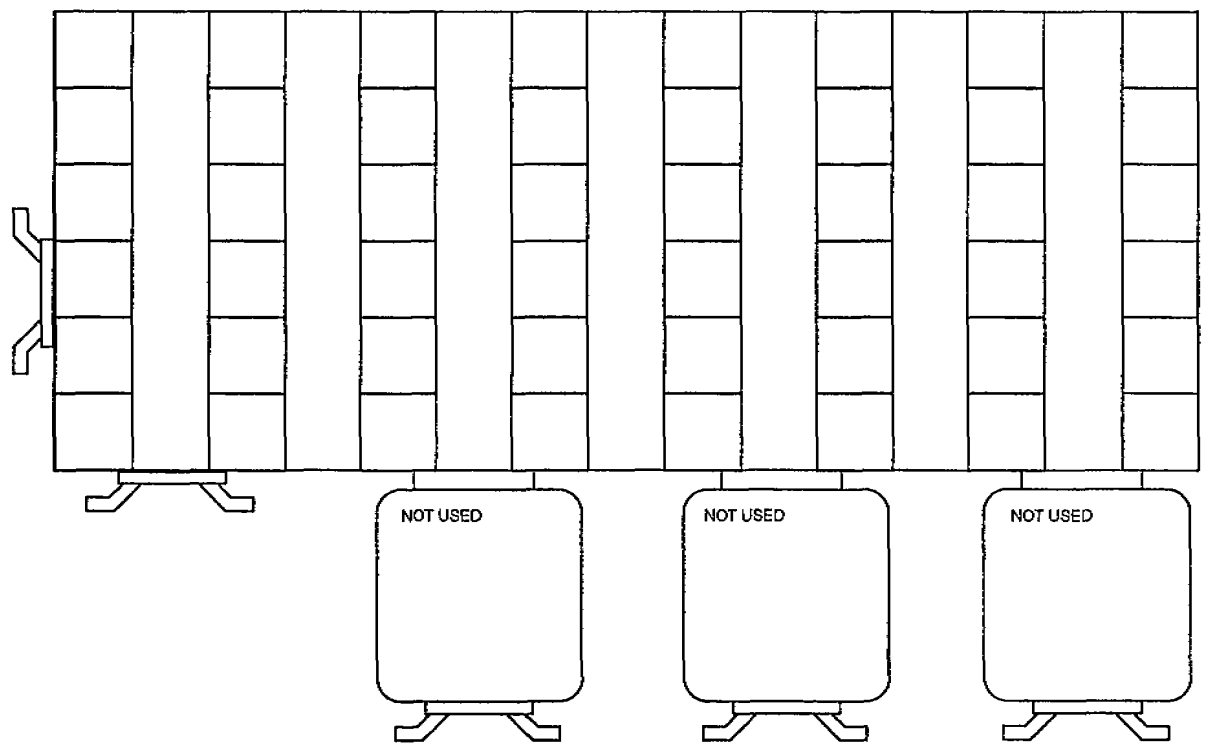
POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	7.5A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																●		●										●	
1210.10	ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)																●		●										●	
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																●		●										●	
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)																●		●											
1230.0	CHARGING SYSTEM																													
1240.0	START																										●		●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																										●		●	
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																													
3450.0	SLIP CONTROL (ABS)										●											●						●		
3450.2	SLIP CONTROL (ABS/ASC+T)										●											●					●	●		
5116.0	POWER MIRRORS																								●					
5120.0	ZKE DOOR LOCK HEATING (TSH)							●																						
5126.0	ZKE CENTRAL LOCKING (ZV)							●																			●		●	
5133.1	POWER WINDOWS (FH)														●					●										
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER SUN ROOF (SHD)	●												●																
5430.0	ELECTRO- MECHANICAL CONVERTIBLE TOP							●																				●		
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)						●	●							●					●										

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	7.5A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6133.0	HORN								●																					
6160.1	WIPER/WASHER MODULE (WWM)																													
6167.1	HEADLIGHT WASHER (SRA)			●																										
6169.0	WINDSHIELD WASHER JET HEATERS																								●					
6211.0	INSTRUMENT CLUSTER															●								●				●		
6213.2	MULTI-FUNCTION CLOCK																							●			●	●		
6214.0	ON-BOARD DISPLAY																							●						
6300.0	LIGHT SWITCH DETAILS																						●			●				
6312.0	HEADLIGHTS/ FOG LIGHTS											●	●			●		●						●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL LIGHTS																									●				
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS							●																						
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER																													
6350.0	CRASH CONTROL MODULE																													
6412.5	PARK VENTILATION WITH IHKR																				●									
6424.0	REAR WINDOW DEFOGGER						●																	●						
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)																●				●			●						

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	7.5A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6510.0	RADIO/ CD PLAYER (PROVISIONS)									●																				
6510.1	RADIO/HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI-THEFT SYSTEM (ALPINE)																													
6581.2	ON-BOARD COMPUTER (BC V)											●	●											●				●		

FUSE CHART

FUSES 30 TO 47

		FUSE NUMBER																
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																		
1210.10	ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)										●								
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																		
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)										●								
1230.0	CHARGING SYSTEM																		
1240.0	START																		
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																	●	
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																		
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)													●	●				
3450.0	SLIP CONTROL (ABS)									●								●	
3450.2	SLIP CONTROL (ABS/ASC+T)									●								●	
5116.0	POWER MIRRORS																		
5120.0	ZKE DOOR LOCK HEATING (TSH)						●												
5126.0	ZKE CENTRAL LOCKING (ZV)						●												
5133.1	POWER WINDOWS (FH)																		
5200.0	POWER SEATS											●							
5203.0	HEATED SEATS																		
5410.1	POWER SUN ROOF (SHD)																		
5430.0	ELECTRO- MECHANICAL CONVERTIBLE TOP						●							●	●				
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●				

FUSE CHART

FUSES 30 TO 47

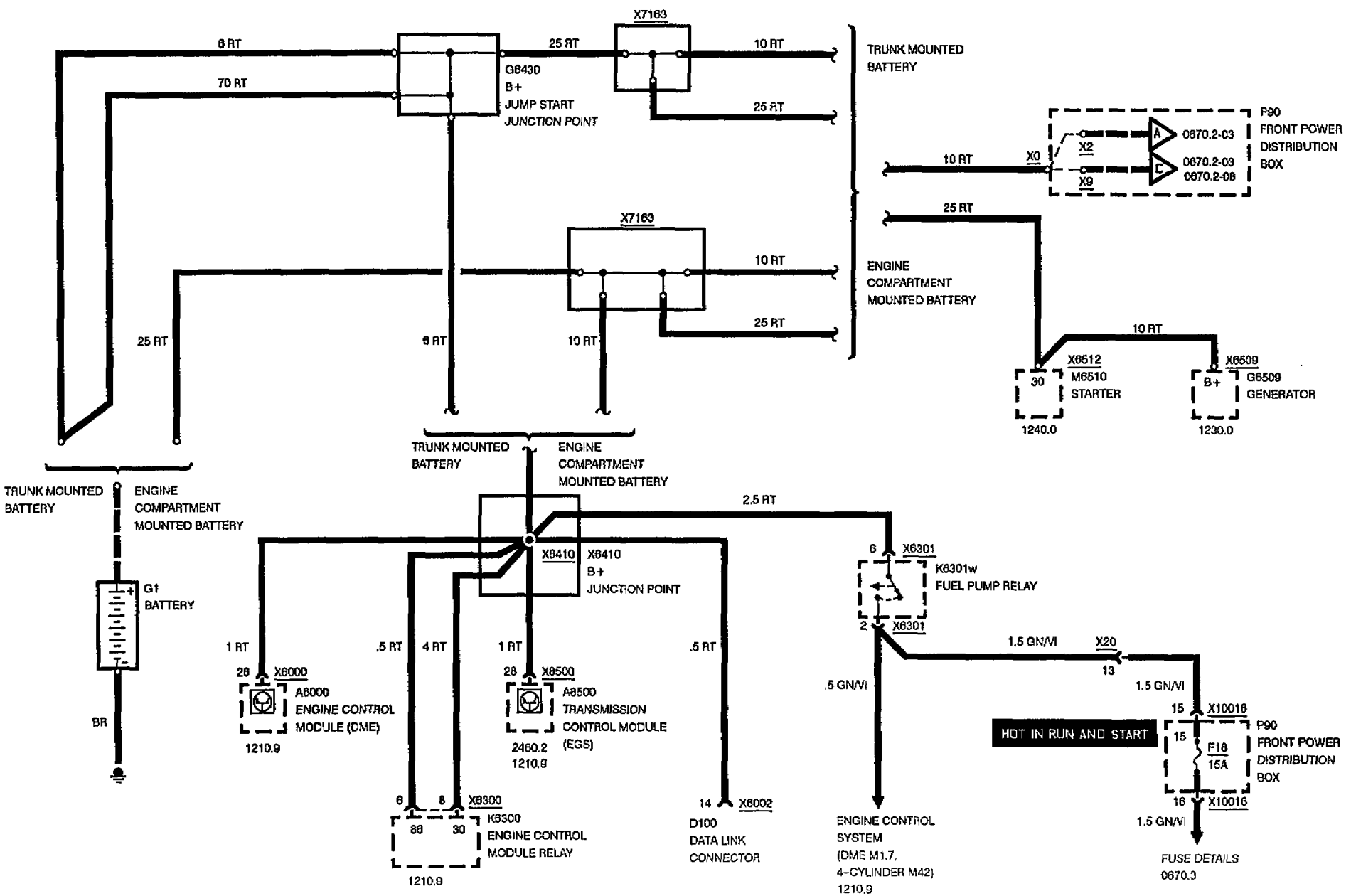
		FUSE NUMBER																
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A
6133.0	HORN																		
6160.1	WIPER/WASHER MODULE (WWM)							●								●	●		
6167.1	HEADLIGHT WASHER (SRA)																		
6169.0	WINDSHIELD WASHER JET HEATERS																		
6211.0	INSTRUMENT CLUSTER		●															●	
6213.2	MULTI-FUNCTION CLOCK		●														●	●	
6214.0	ON-BOARD DISPLAY		●														●	●	
6300.0	LIGHT SWITCH DETAILS				●				●										
6312.0	HEADLIGHTS/ FOG LIGHTS	●																	
6313.0	TURN/HAZARD LIGHTS					●													
6314.0	PARK/TAIL LIGHTS				●				●										
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS				●				●										
6322.0	BACK UP LIGHTS																		
6325.0	BRAKE LIGHTS																	●	
6330.3	INTERIOR LIGHTS				●										●				
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER			●	●				●										
6350.0	CRASH CONTROL MODULE					●													
6412.5	PARK VENTILATION WITH IHKR																		
6424.0	REAR WINDOW DEFOGGER																		
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)		●						●		●		●						

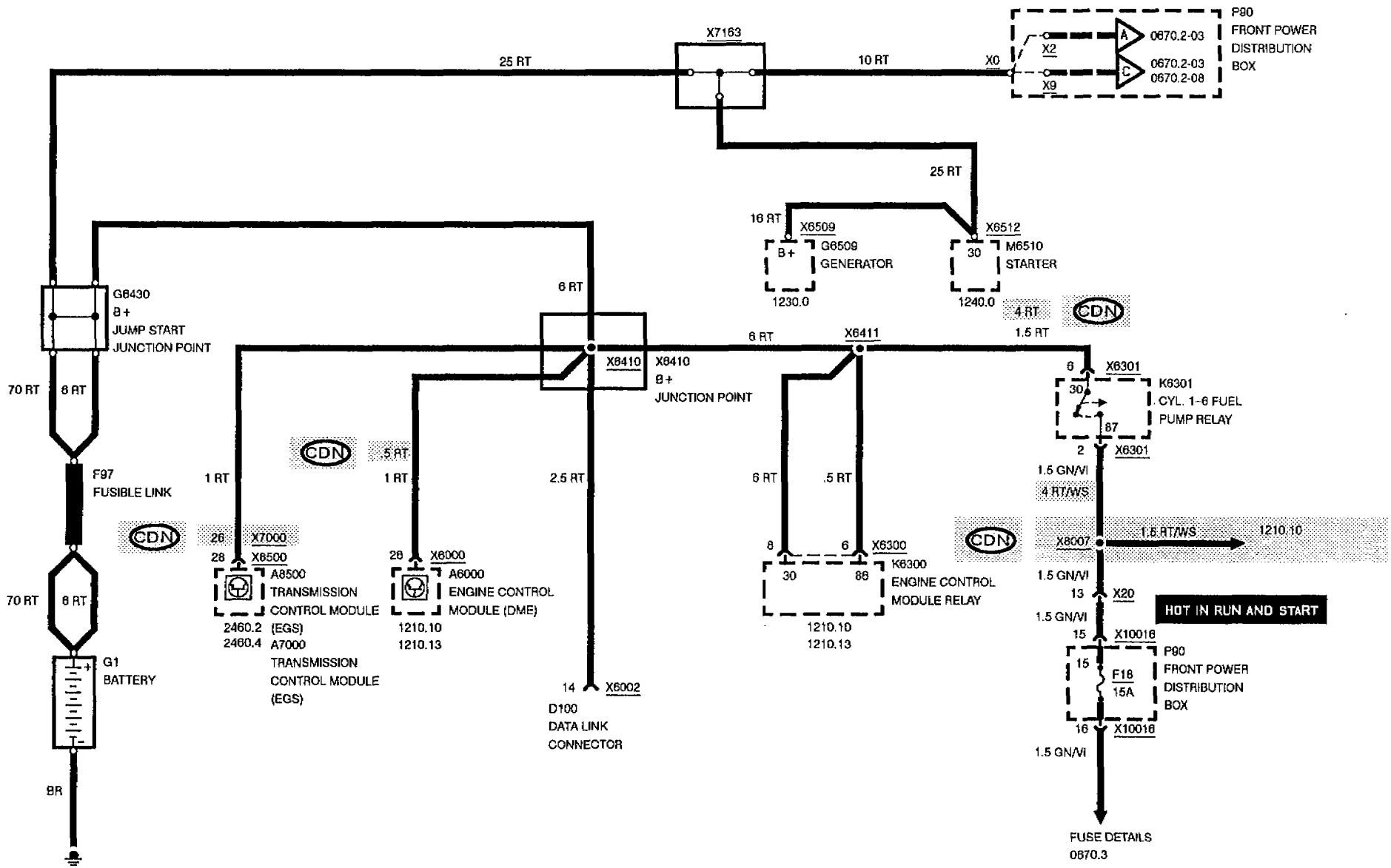
BMW 3

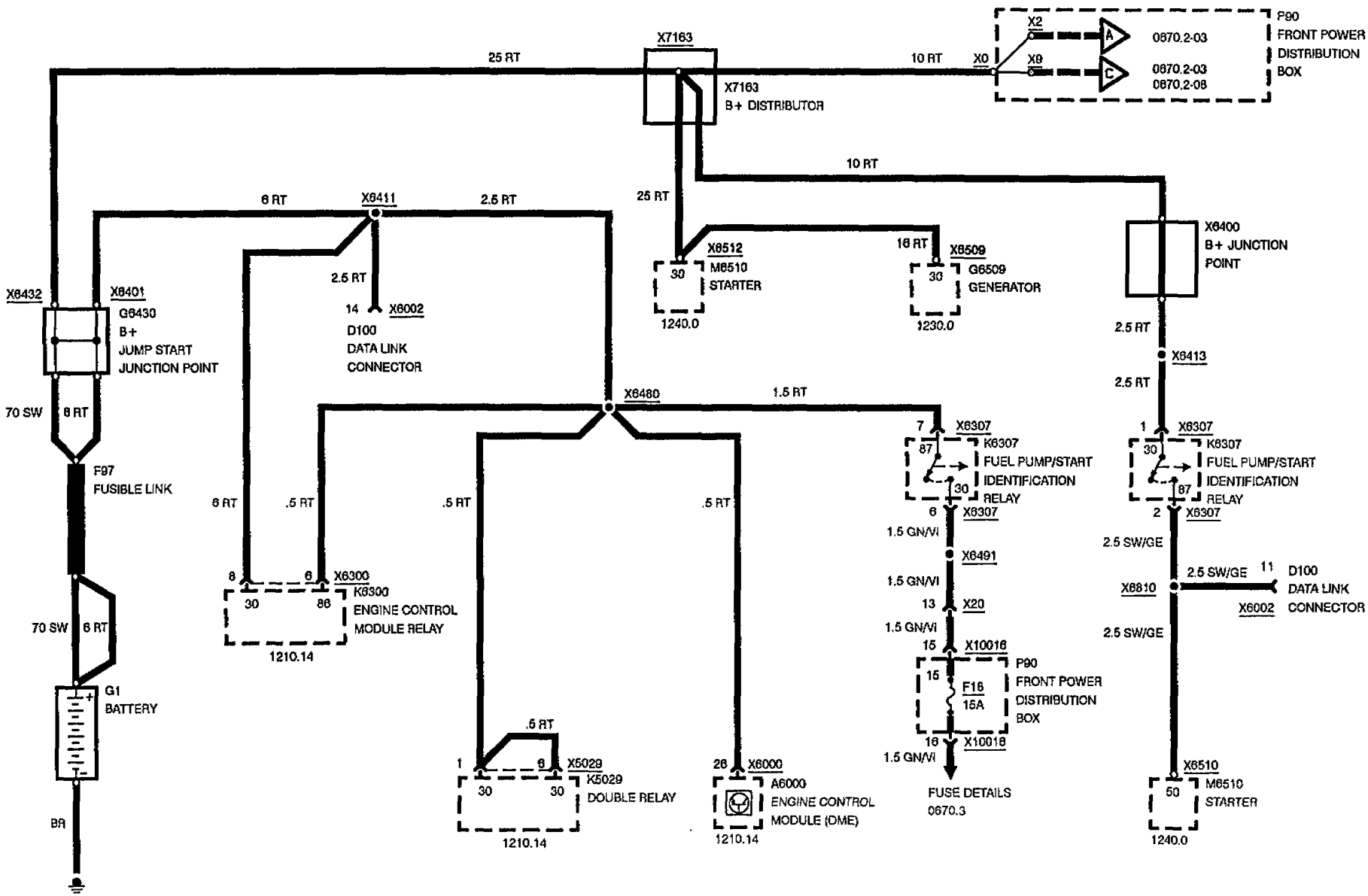
FUSE CHART

FUSES 30 TO 47

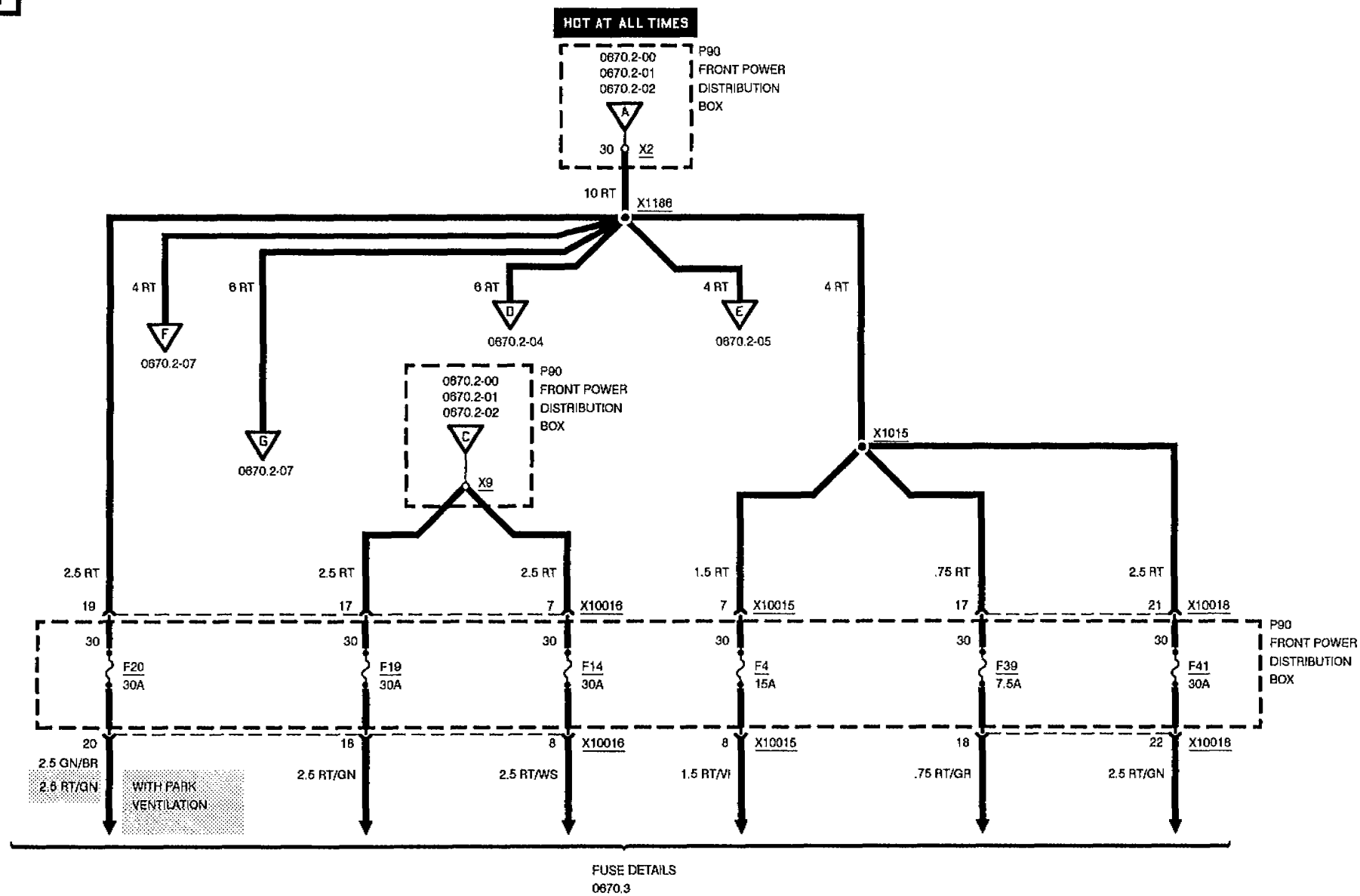
		FUSE NUMBER																
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A
6510.0	RADIO/ CD PLAYER (PROVISIONS)				●											●			
6510.1	RADIO/HIFI				●											●			
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●				
6571.0	CRUISE CONTROL (TEMPOMAT)																	●	
6575.2	ANTI-THEFT SYSTEM (ALPINE)														●				●
6581.2	ON-BOARD COMPUTER (BC V)		●		●				●								●	●	●


X7163
6 RT
70 RT
25 RT
10 RT
25 RT
G6430
B+
JUMP START
JUNCTION POINT
TRUNK MOUNTED
BATTERY
X7163
10 RT
25 RT
ENGINE
COMPARTMENT
MOUNTED BATTERY
25 RT
6 RT
10 RT
P90
FRONT POWER
DISTRIBUTION
BOX
10 RT
X0
X2
X9
A
C
0670.2-03
0670.2-03
0670.2-08
25 RT
10 RT
X6512
M6510
STARTER
30
1240.0
X6509
G6509
GENERATOR
B+
1230.0
TRUNK MOUNTED
BATTERY
ENGINE
COMPARTMENT
MOUNTED BATTERY
TRUNK MOUNTED
BATTERY
ENGINE
COMPARTMENT
MOUNTED BATTERY
G1
BATTERY
BR
2.5 RT
X6410
X6410
B+
JUNCTION POINT
1 RT
.5 RT
4 RT
1 RT
.5 RT
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.9
28
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
2460.2
1210.9
6
X6301
K6301w
FUEL PUMP RELAY
2
X6301
1.5 GN/VI
X20
13
.5 GN/VI
1.5 GN/VI
15
X10016
HOT IN RUN AND START
15
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
16
X10016
1.5 GN/VI
6
8
X6300
86
30
K6300
ENGINE CONTROL
MODULE RELAY
1210.9
14
X6002
D100
DATA LINK
CONNECTOR
ENGINE CONTROL
SYSTEM
(DME M1.7,
4-CYLINDER M42)
1210.9
FUSE DETAILS
0670.3

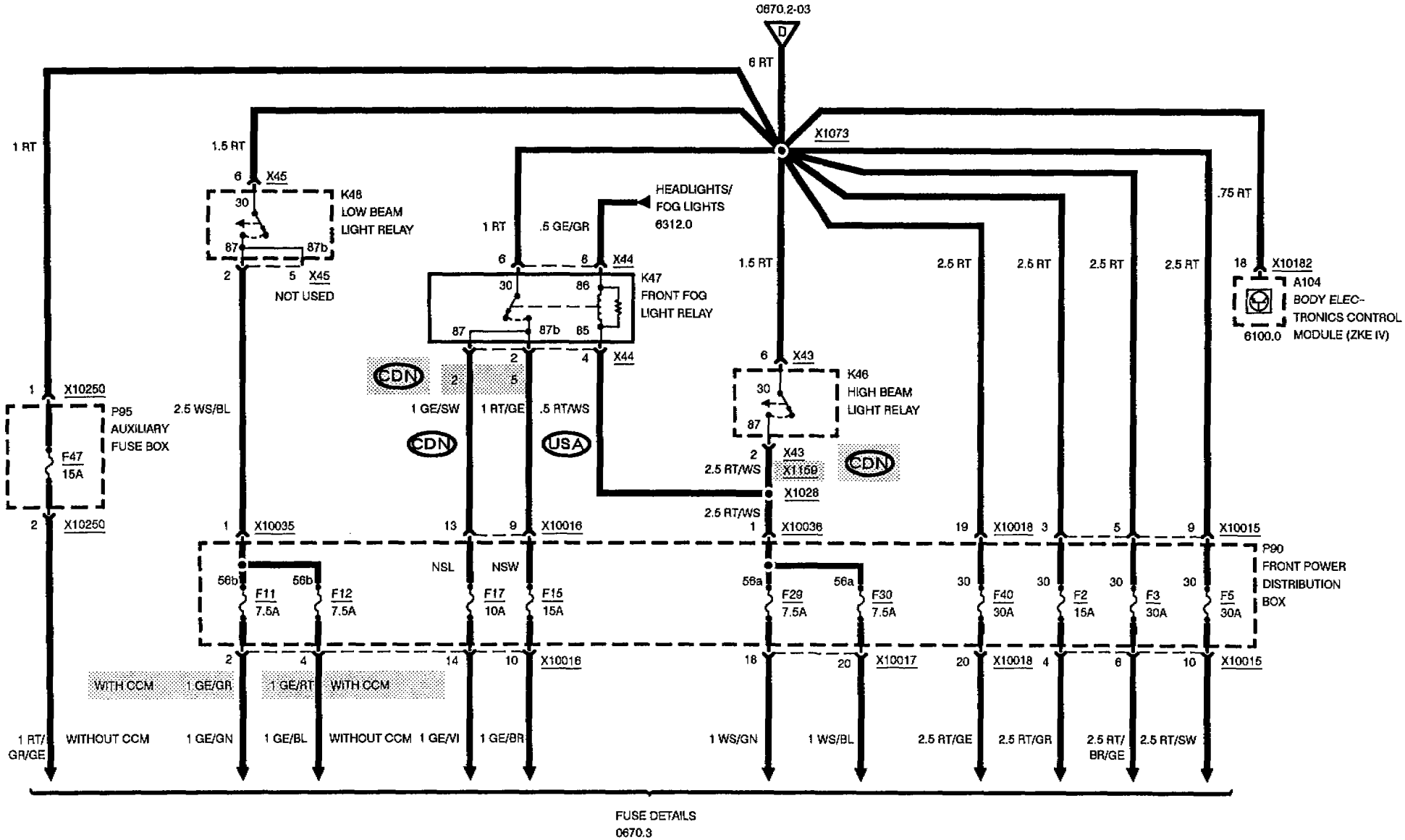

X7163
25 RT
10 RT
X0
X2
X9
A
C
0670.2-03
0670.2-03
0670.2-08
P80
FRONT POWER
DISTRIBUTION
BOX
25 RT
16 RT
X6509
B+
G6509
GENERATOR
1230.0
X6512
30
M6510
STARTER
1240.0
4 RT
1.5 RT
CDN
G6430
B+
JUMP START
JUNCTION POINT
6 RT
X8410
X8410
B+
JUNCTION POINT
6 RT
X6411
6
X6301
30
87
K6301
CYL. 1-6 FUEL
PUMP RELAY
2
X6301
1.5 GN/VI
4 RT/WS
70 RT
6 RT
F97
FUSIBLE LINK
CDN
1 RT
5 RT
1 RT
2.5 RT
6 RT
.5 RT
CDN
X8007
1.5 RT/WS
1210.10
26
X7000
28
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
2460.2
2460.4
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.10
1210.13
8
6
X6300
30
86
K6300
ENGINE CONTROL
MODULE RELAY
1210.10
1210.13
1.5 GN/VI
13
X20
HOT IN RUN AND START
1.5 GN/VI
15
X10016
15
F18
15A
16
X10016
P80
FRONT POWER
DISTRIBUTION
BOX
1.5 GN/VI
70 RT
6 RT
G1
BATTERY
BR
14
X6002
D100
DATA LINK
CONNECTOR
FUSE DETAILS
0670.3


X7163
25 RT
X7163
B+ DISTRIBUTOR
10 RT
X0
X2
A
X9
C
0670.2-03
0670.2-03
0670.2-08
P90
FRONT POWER
DISTRIBUTION
BOX
10 RT
25 RT
X6512
30
M6510
STARTER
1240.0
16 RT
X6509
30
G6509
GENERATOR
1230.0
X6400
B+ JUNCTION
POINT
2.5 RT
X6413
2.5 RT
6 RT
X6411
2.5 RT
2.5 RT
14
X6002
D100
DATA LINK
CONNECTOR
X6432
X6401
G6430
B+
JUMP START
JUNCTION POINT
70 SW
6 RT
F97
FUSIBLE LINK
70 SW
6 RT
G1
BATTERY
BR
X6480
1.5 RT
6 RT
.5 RT
8
6
X6300
30
86
K6300
ENGINE CONTROL
MODULE RELAY
1210.14
.5 RT
.5 RT
.5 RT
1
6
X5029
30
30
K5029
DOUBLE RELAY
1210.14
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.14
7
X6307
87
30
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
6
X6307
1.5 GN/VI
X6491
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
15
F16
16A
16
X10016
1.5 GN/VI
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
1
X6307
30
87
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
2
X6307
2.5 SW/GE
2.5 SW/GE
X6810
11
D100
DATA LINK
X6002
CONNECTOR
2.5 SW/GE
X6510
50
M6510
STARTER
1240.0

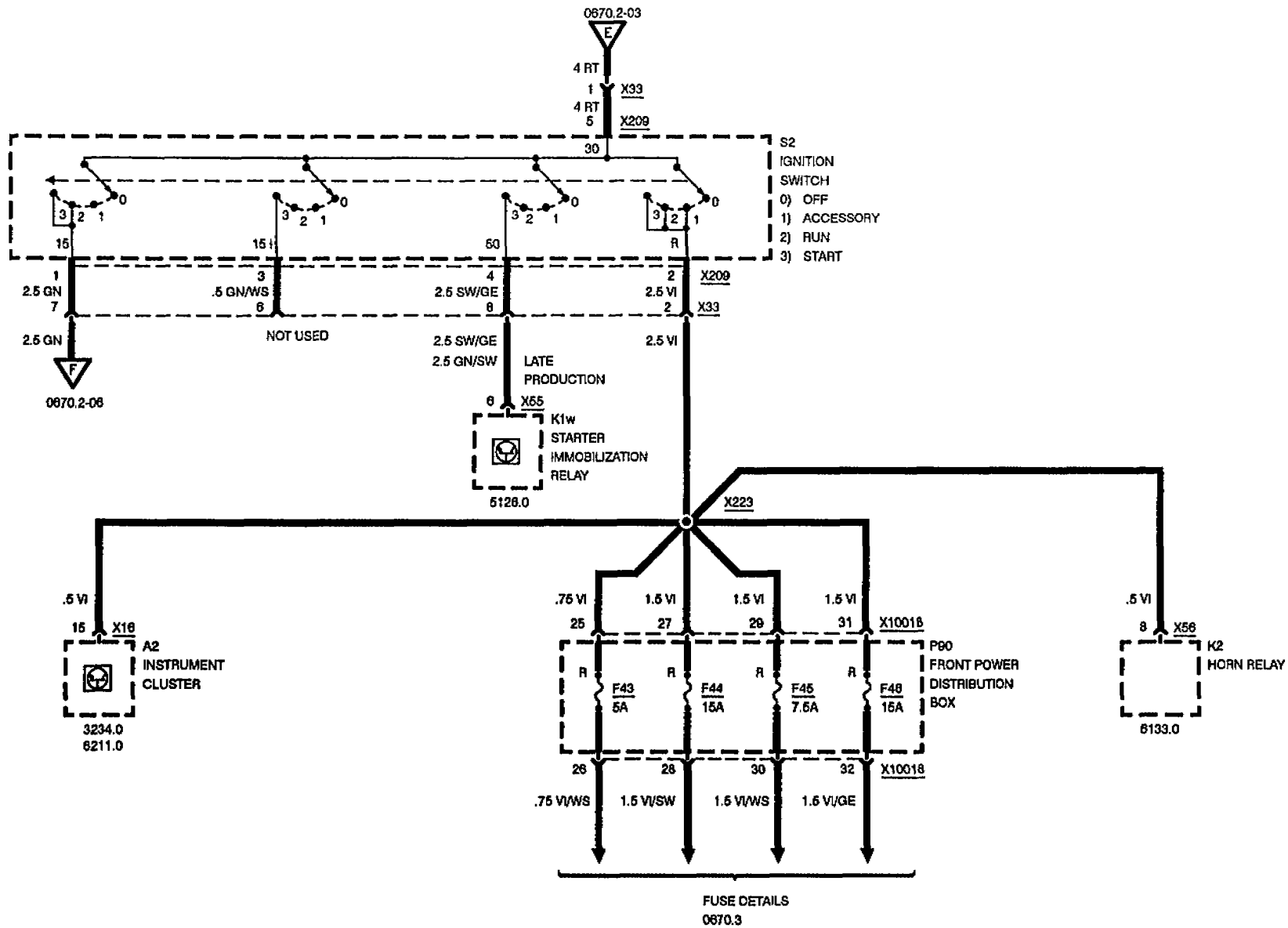
POWER DISTRIBUTION



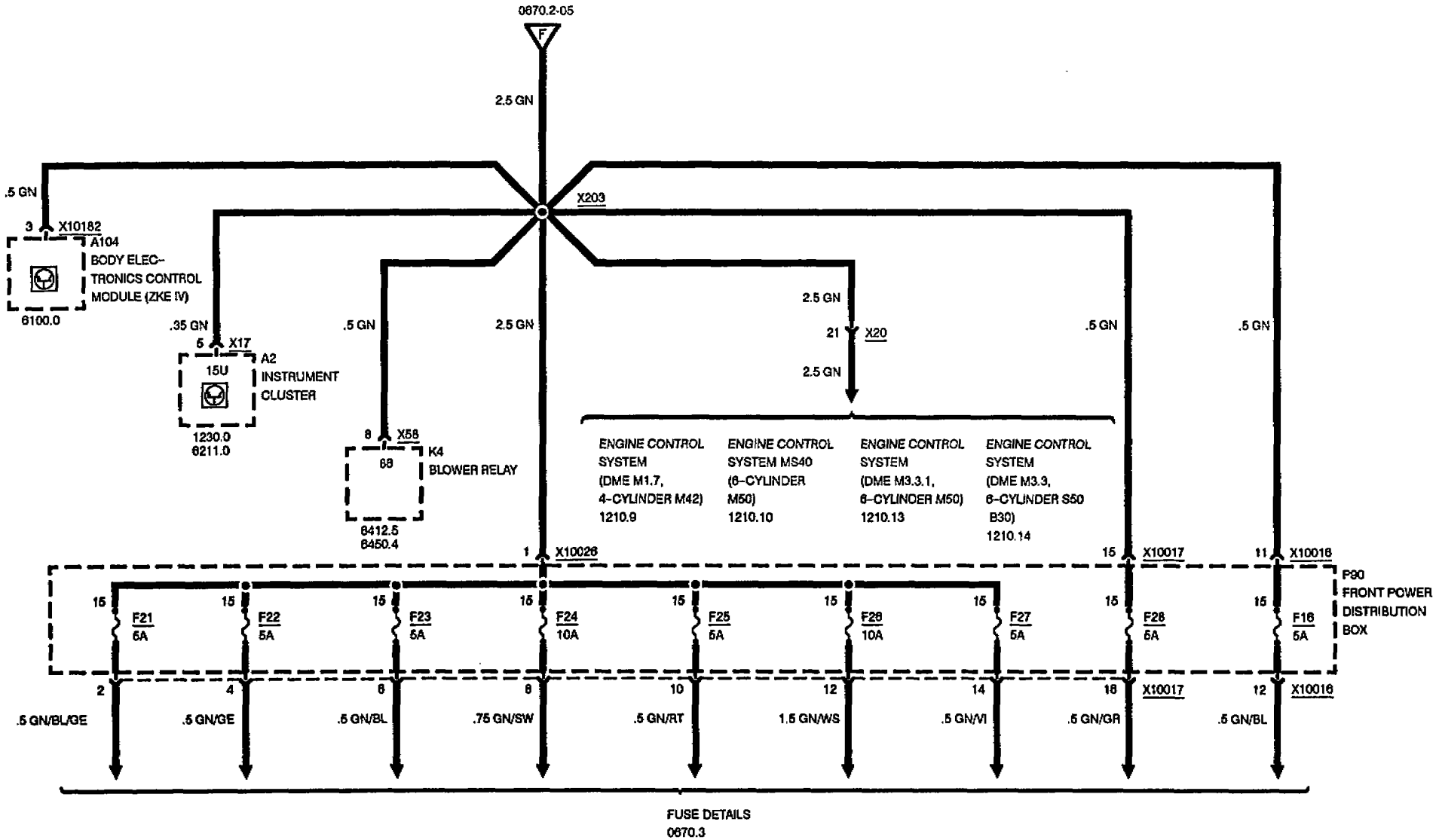
POWER DISTRIBUTION



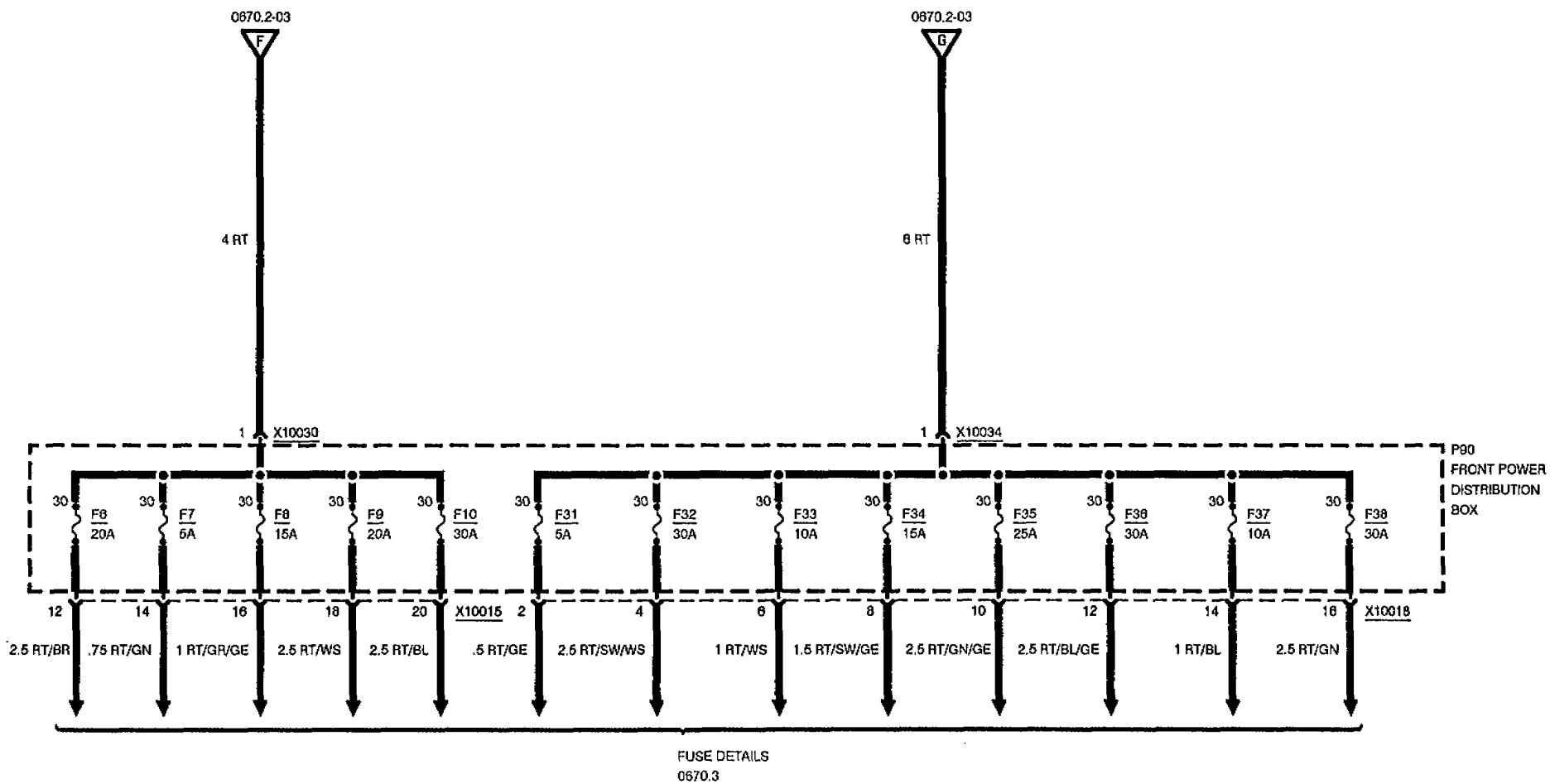
POWER DISTRIBUTION

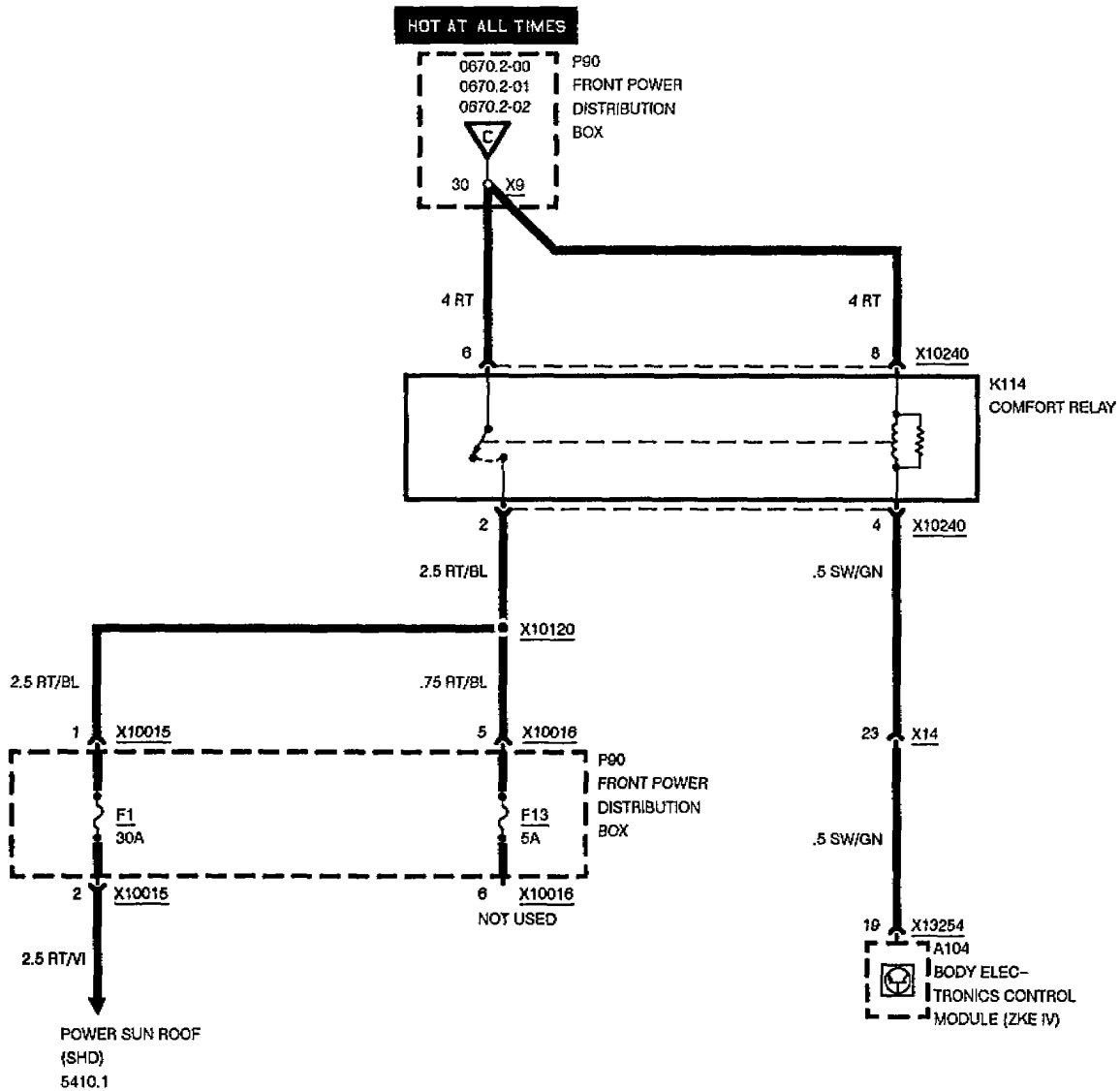


POWER DISTRIBUTION



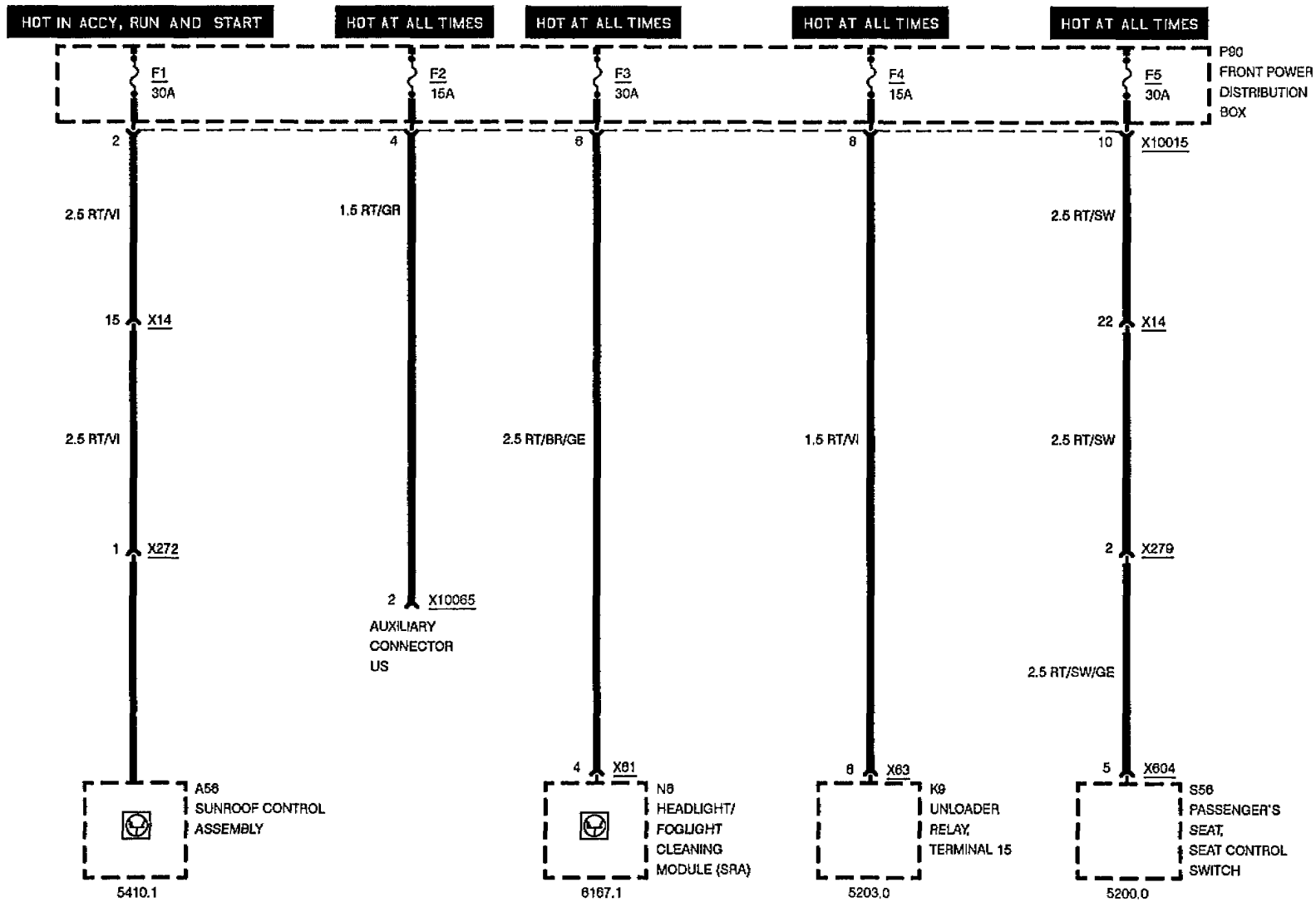
POWER DISTRIBUTION




HOT AT ALL TIMES
0670.2-00
0670.2-01
0670.2-02
P90
FRONT POWER
DISTRIBUTION
BOX
C
30
X9
4 RT
4 RT
6
8
X10240
K114
COMFORT RELAY
2
4
X10240
2.5 RT/BL
.5 SW/GN
X10120
2.5 RT/BL
.75 RT/BL
1
X10015
5
X10016
23
X14
P90
FRONT POWER
DISTRIBUTION
BOX
F1
30A
F13
5A
.5 SW/GN
2
X10015
6
X10016
NOT USED
19
X13254
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
2.5 RT/VI
POWER SUN ROOF
(SHD)
5410.1

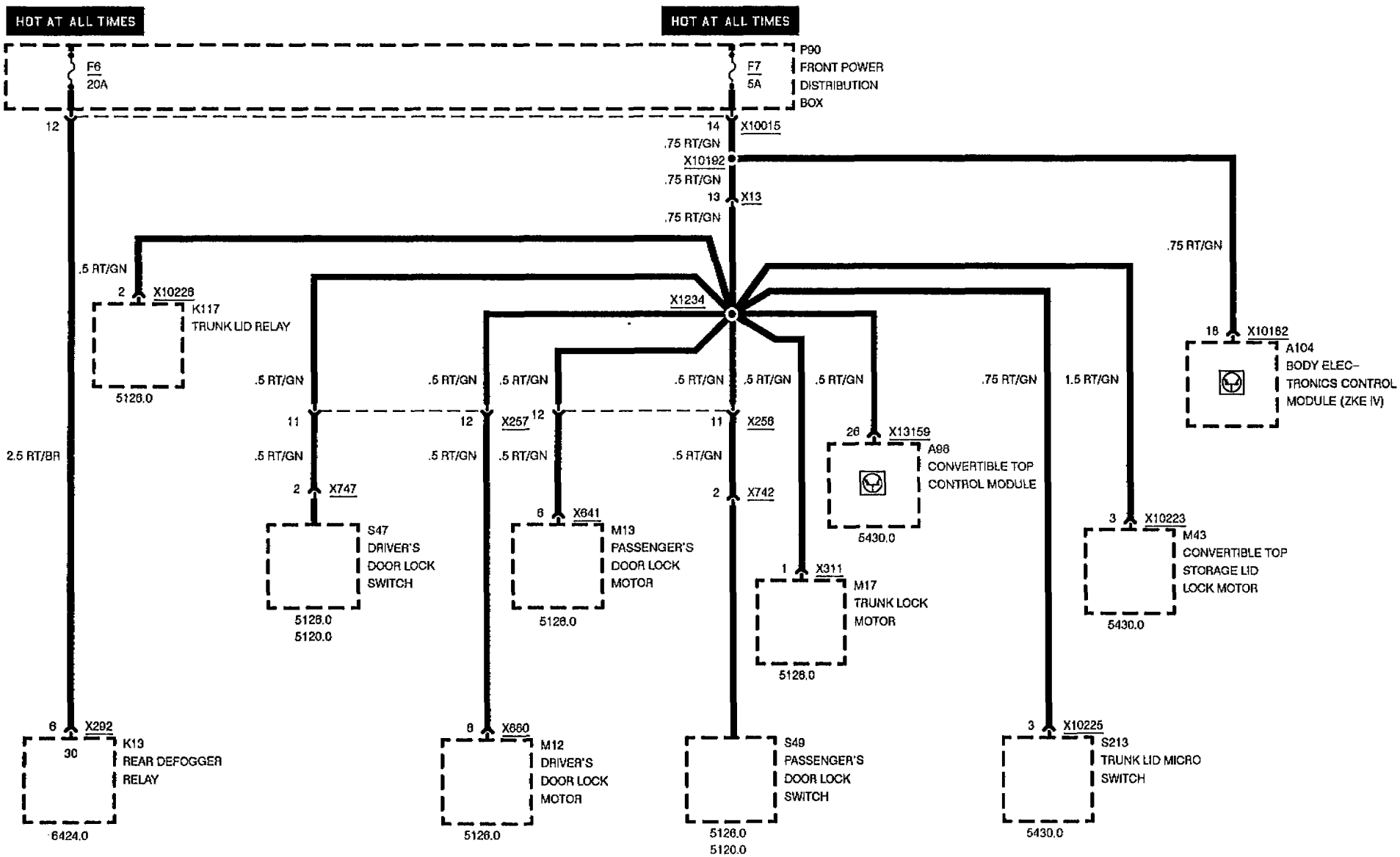
FUSE DETAILS

FUSES 1, 2, 3, 4, AND 5



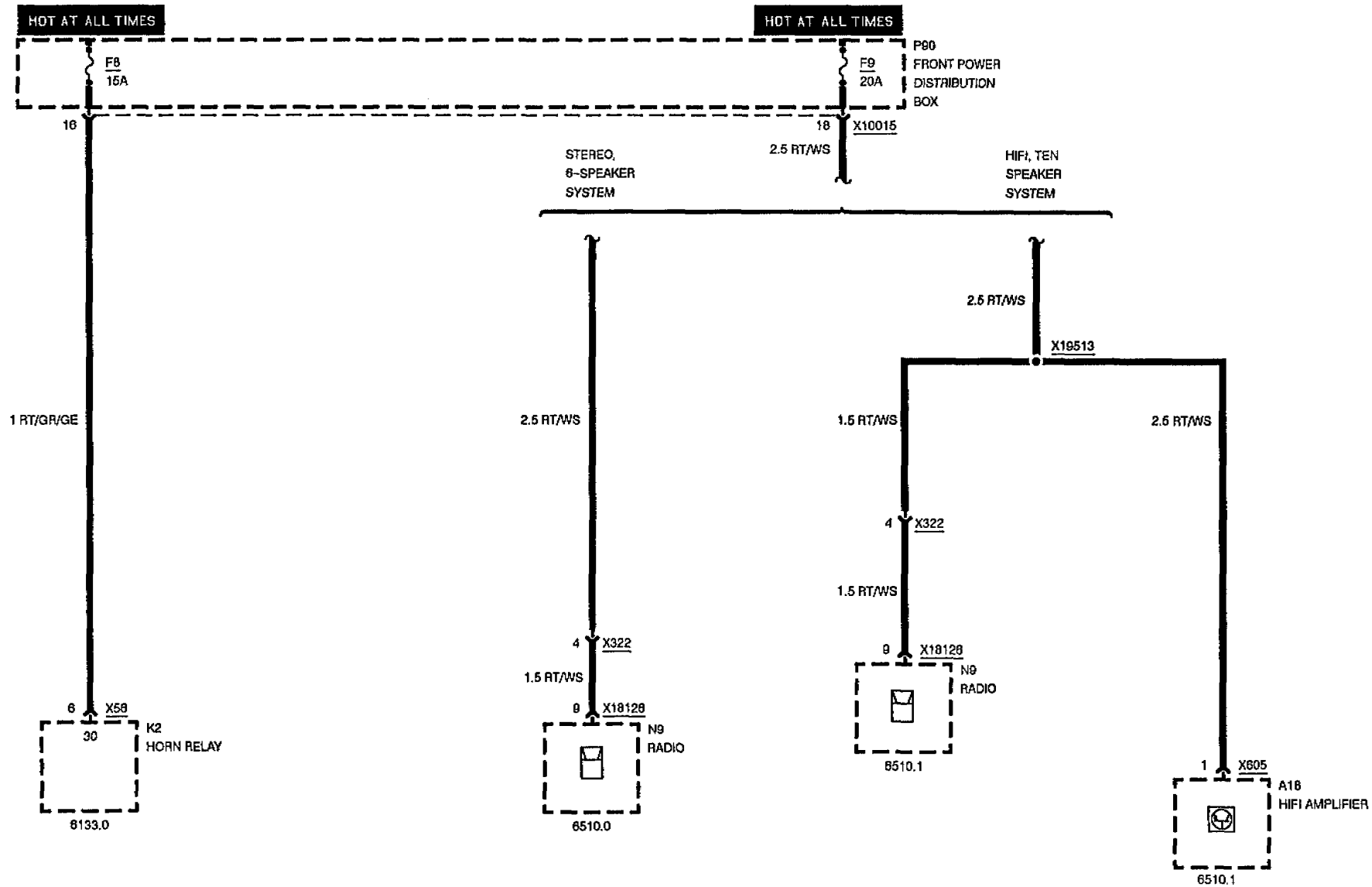
FUSE DETAILS

FUSES 6 AND 7



FUSE DETAILS

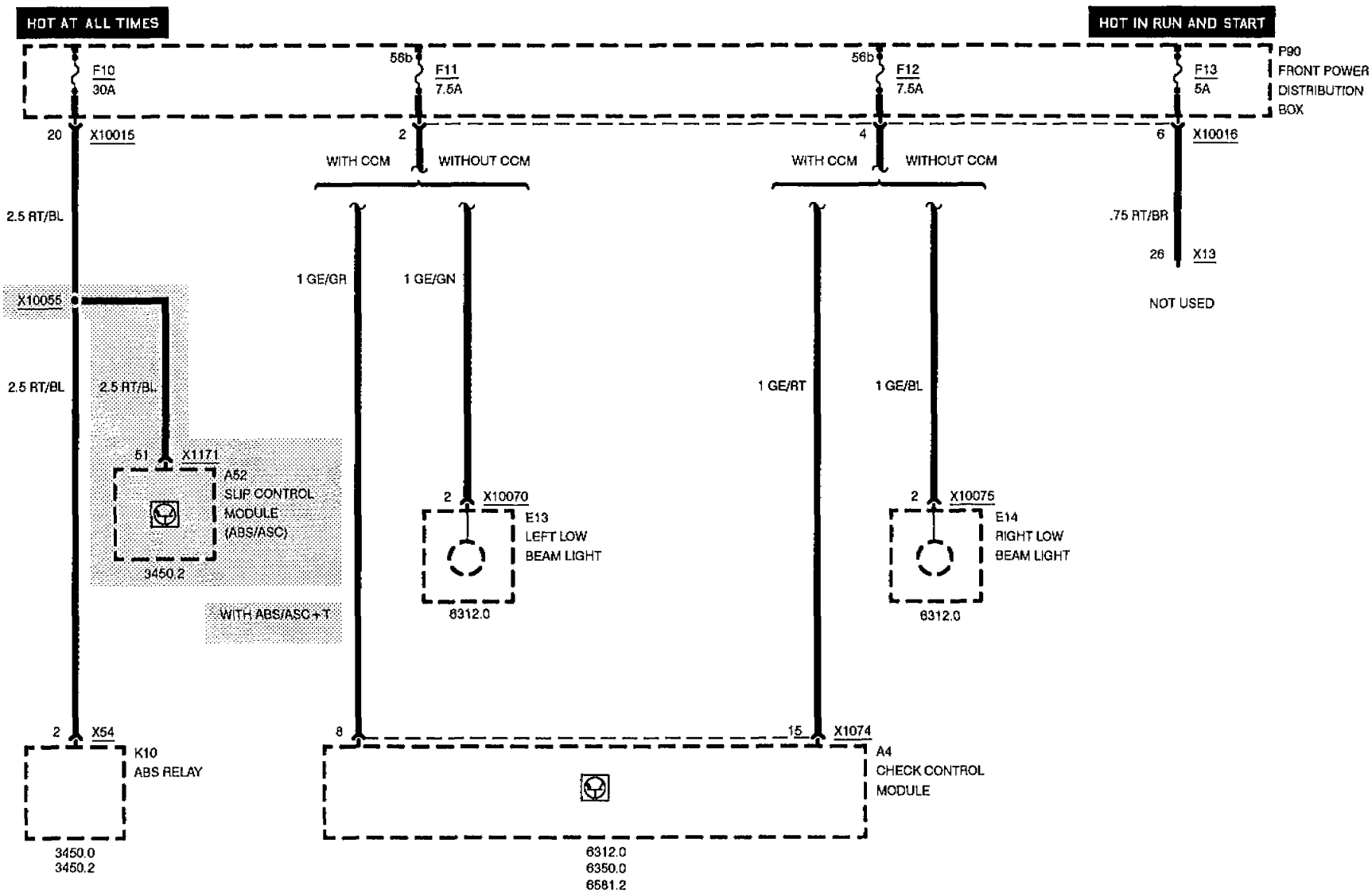
FUSES 8 AND 9



BMW 3

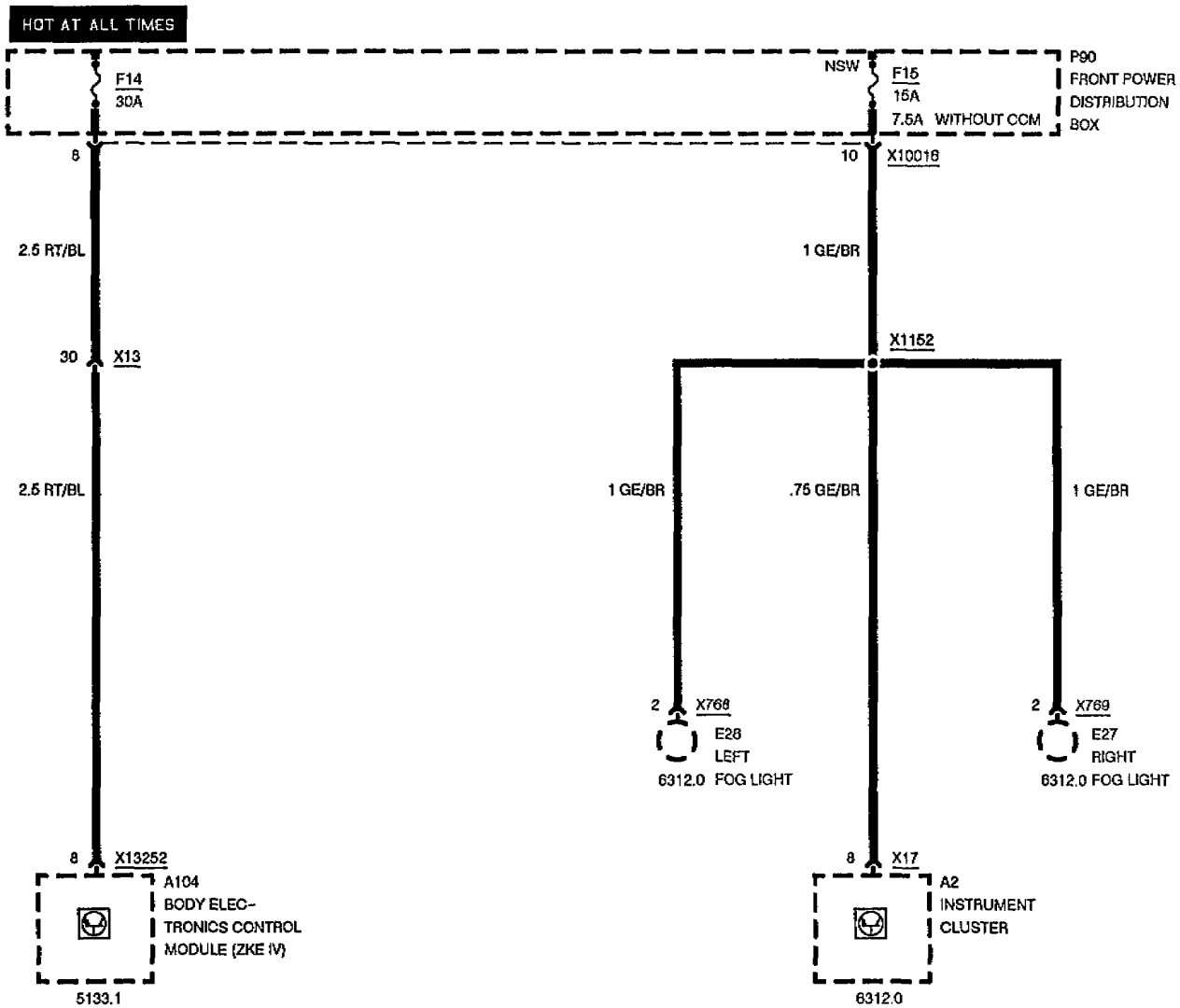
FUSE DETAILS

FUSES 10, 11, 12, AND 13



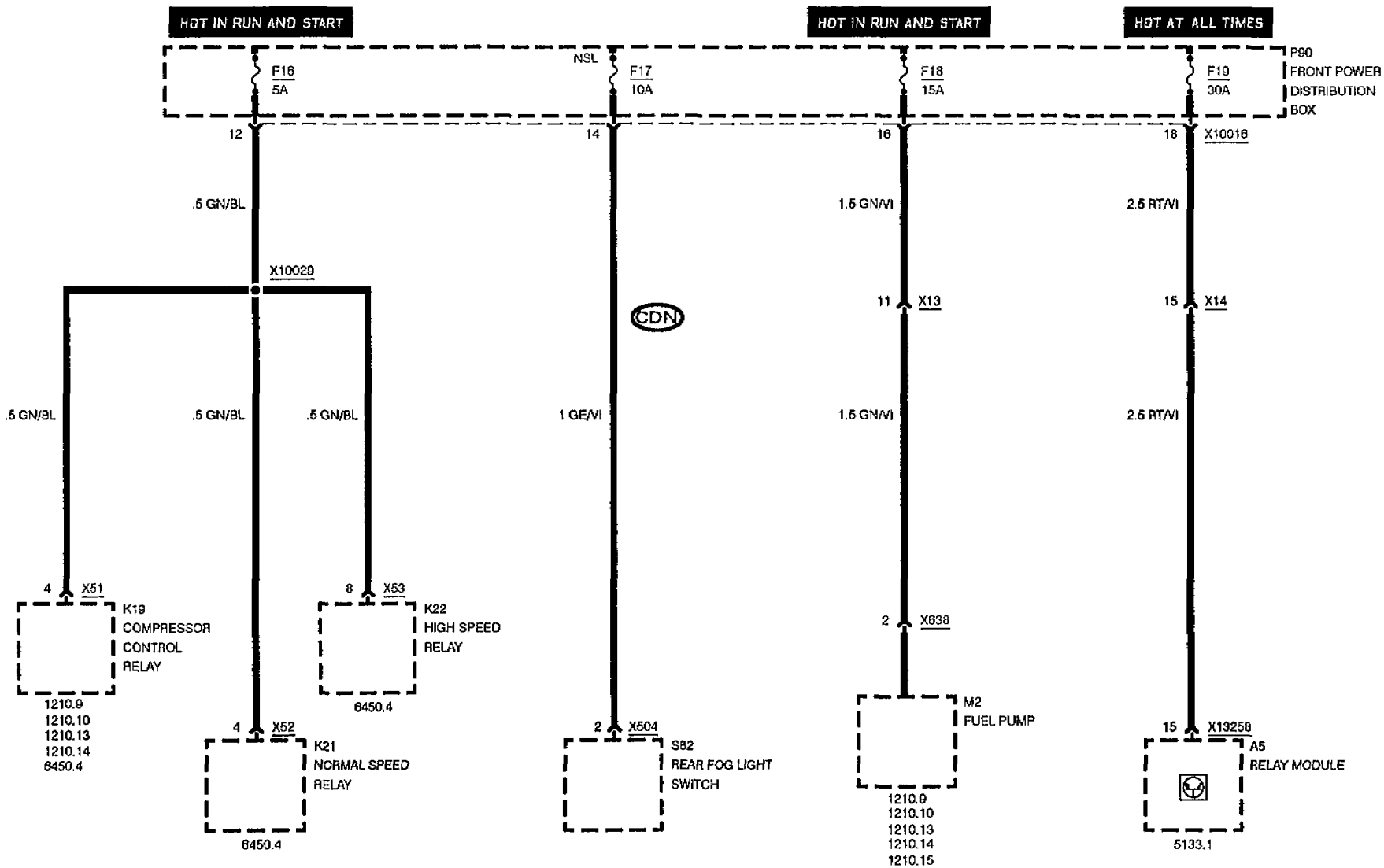
FUSE DETAILS

FUSES 14 AND 15



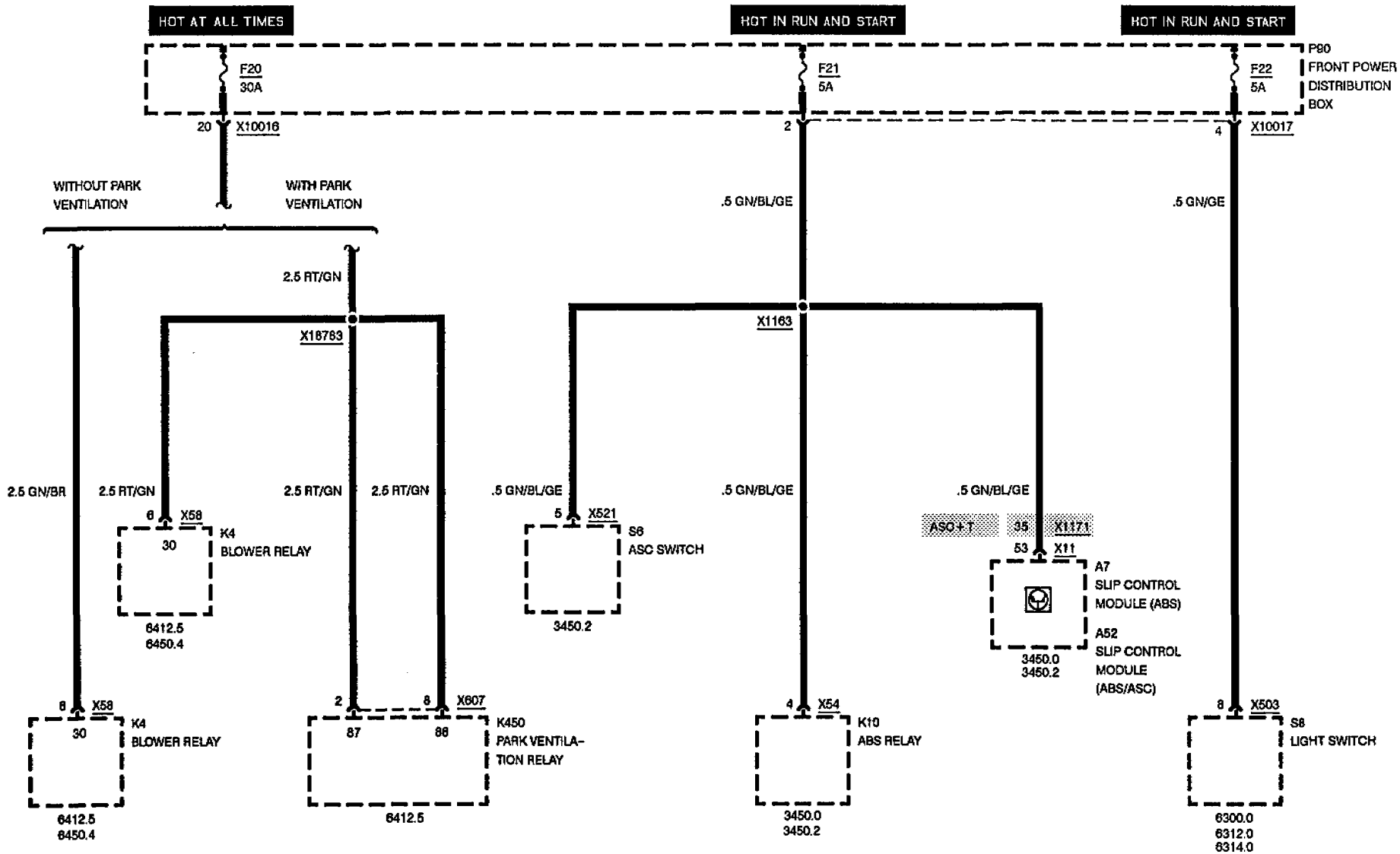
FUSE DETAILS

FUSES 16, 17, 18, AND 19



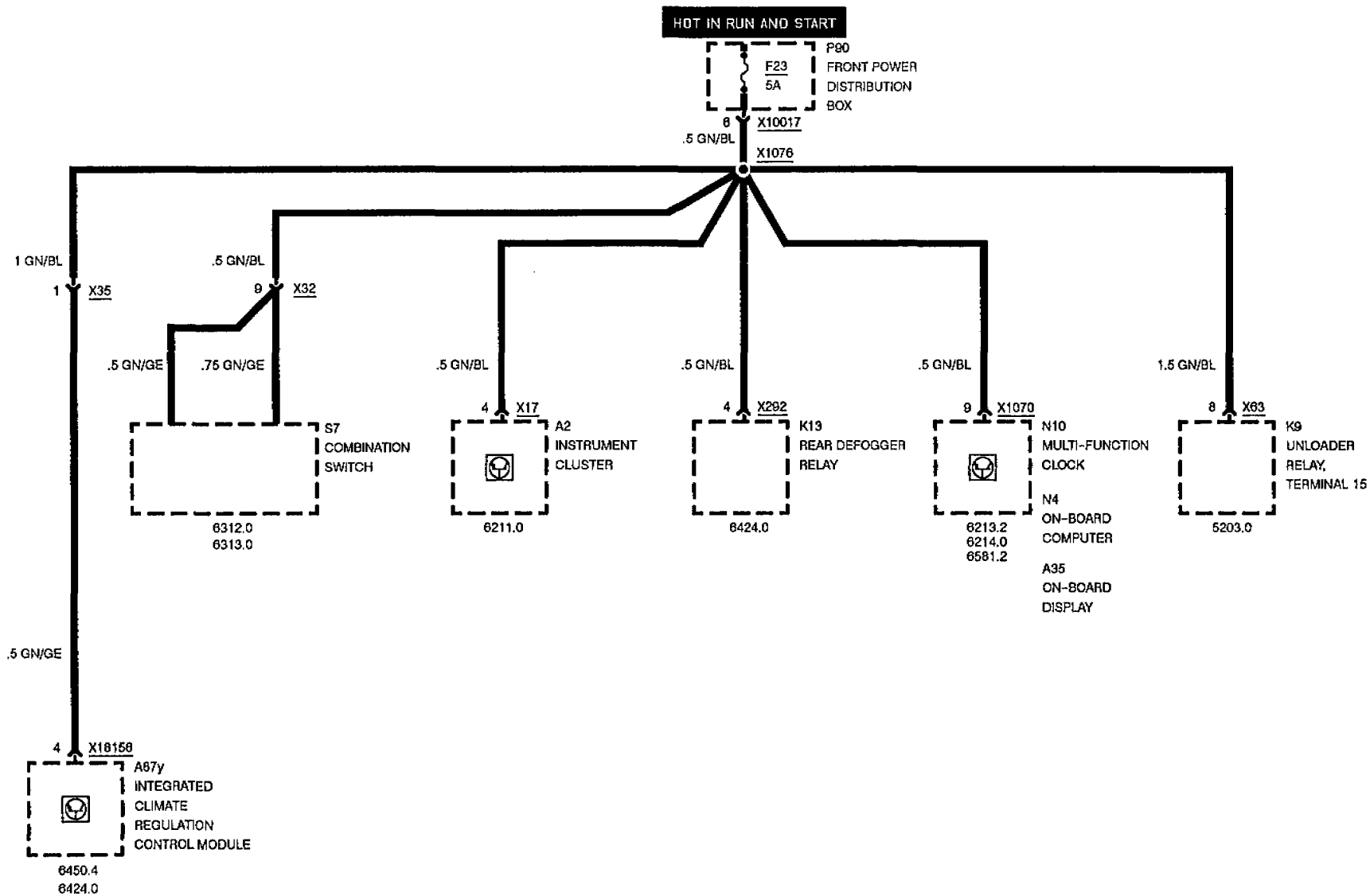
FUSE DETAILS

FUSES 20, 21, AND 22



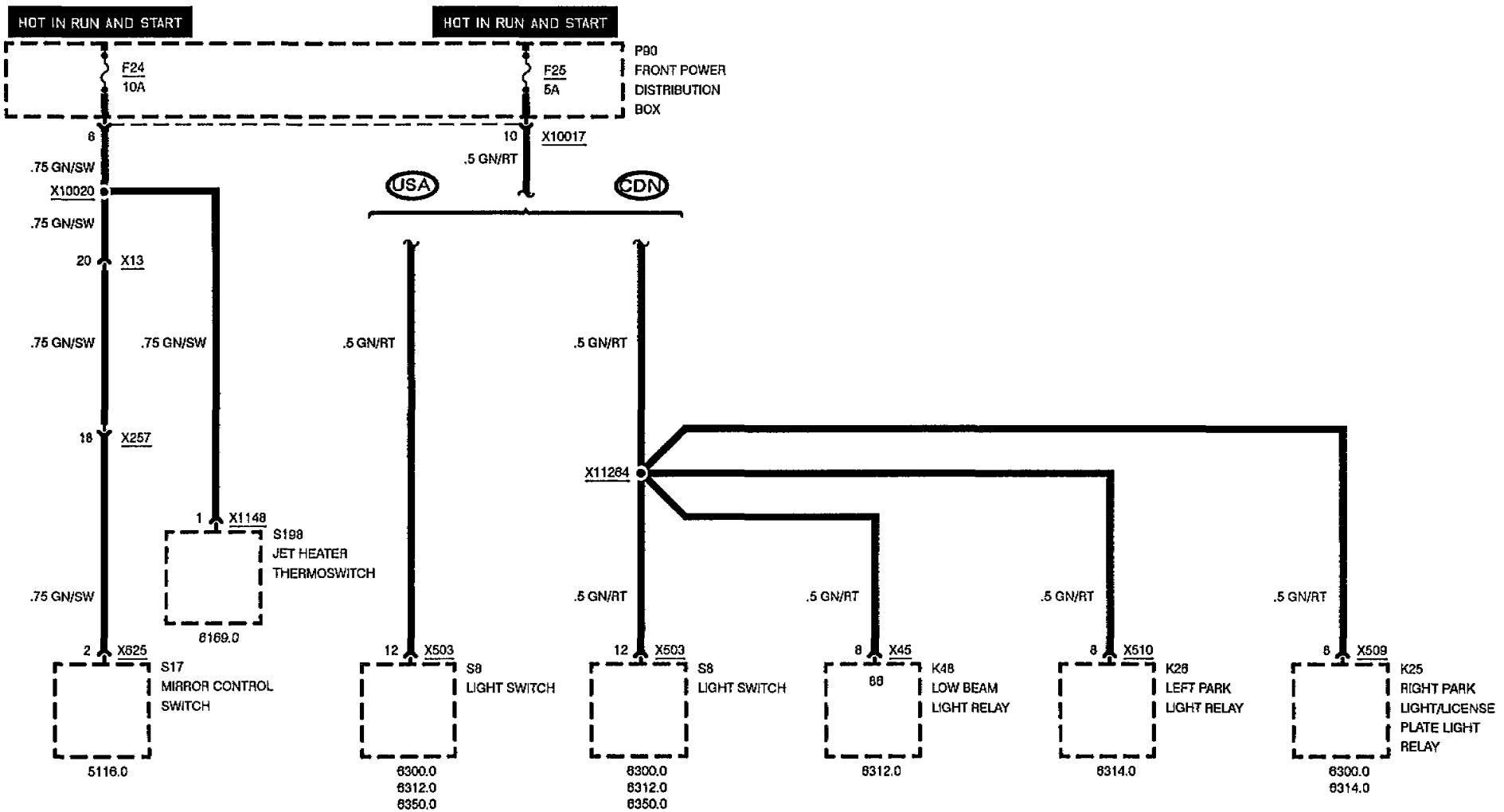
FUSE DETAILS

FUSE 23



FUSE DETAILS

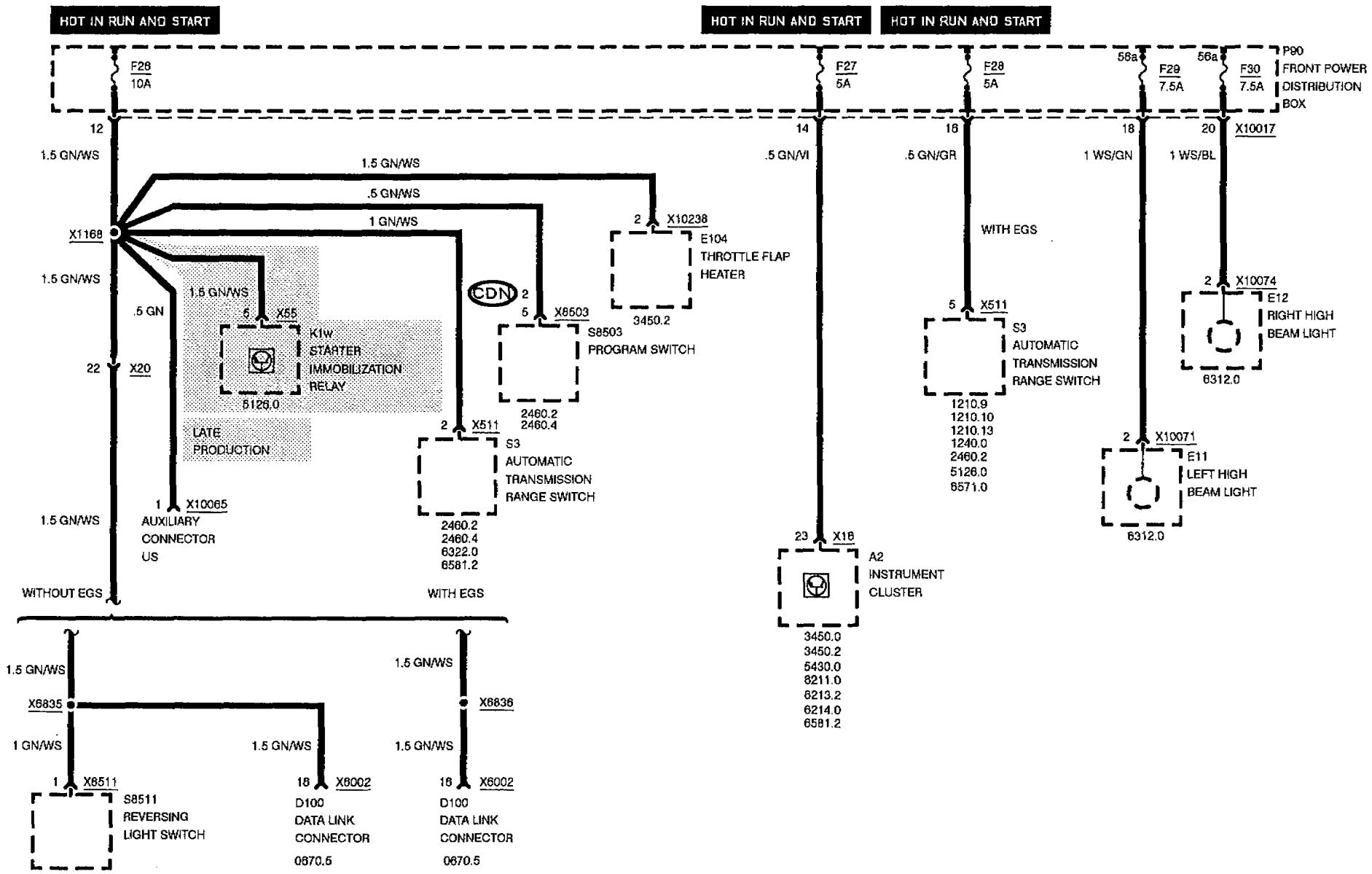
FUSES 24 AND 25



BMW 3

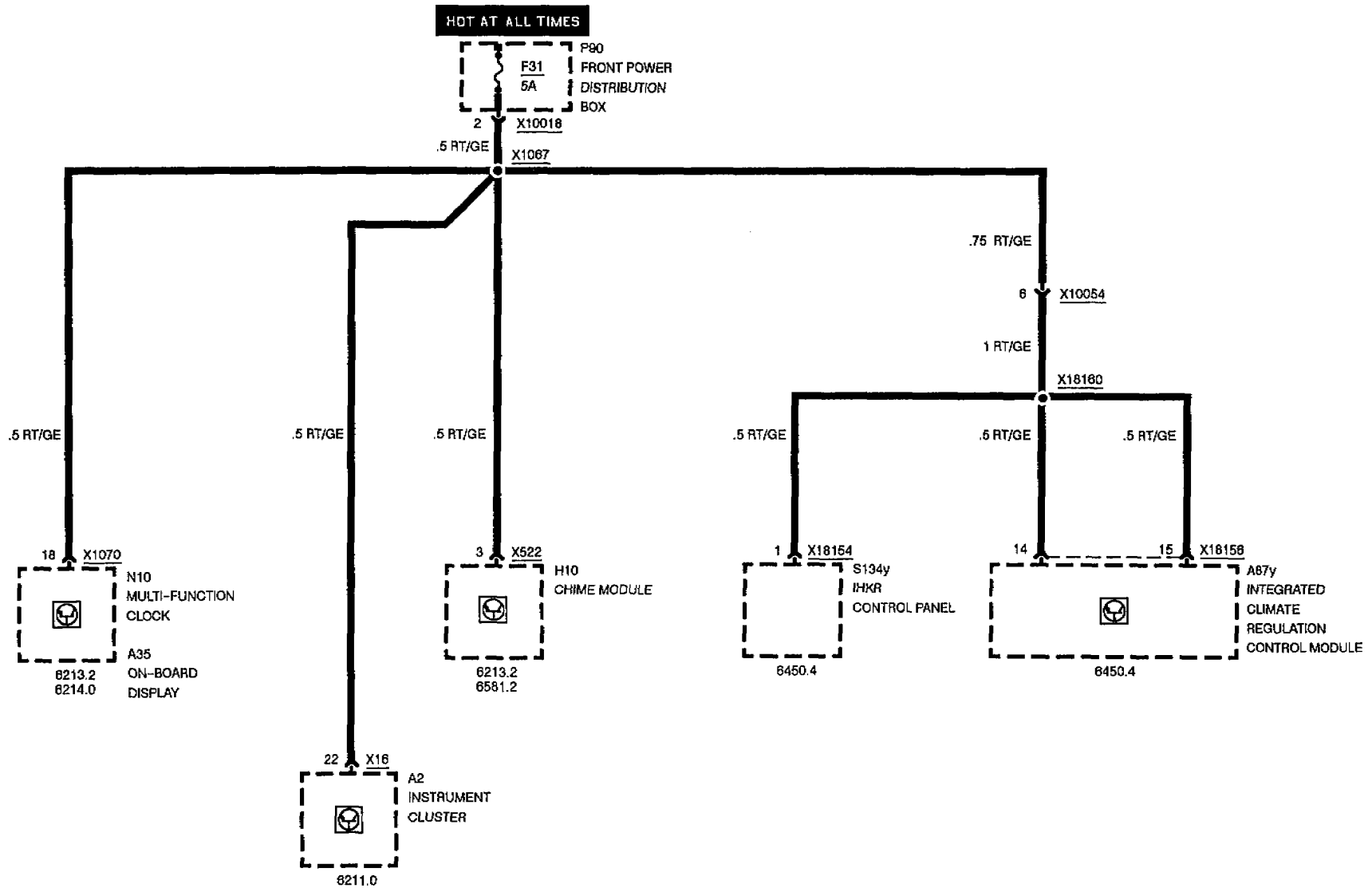
FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30



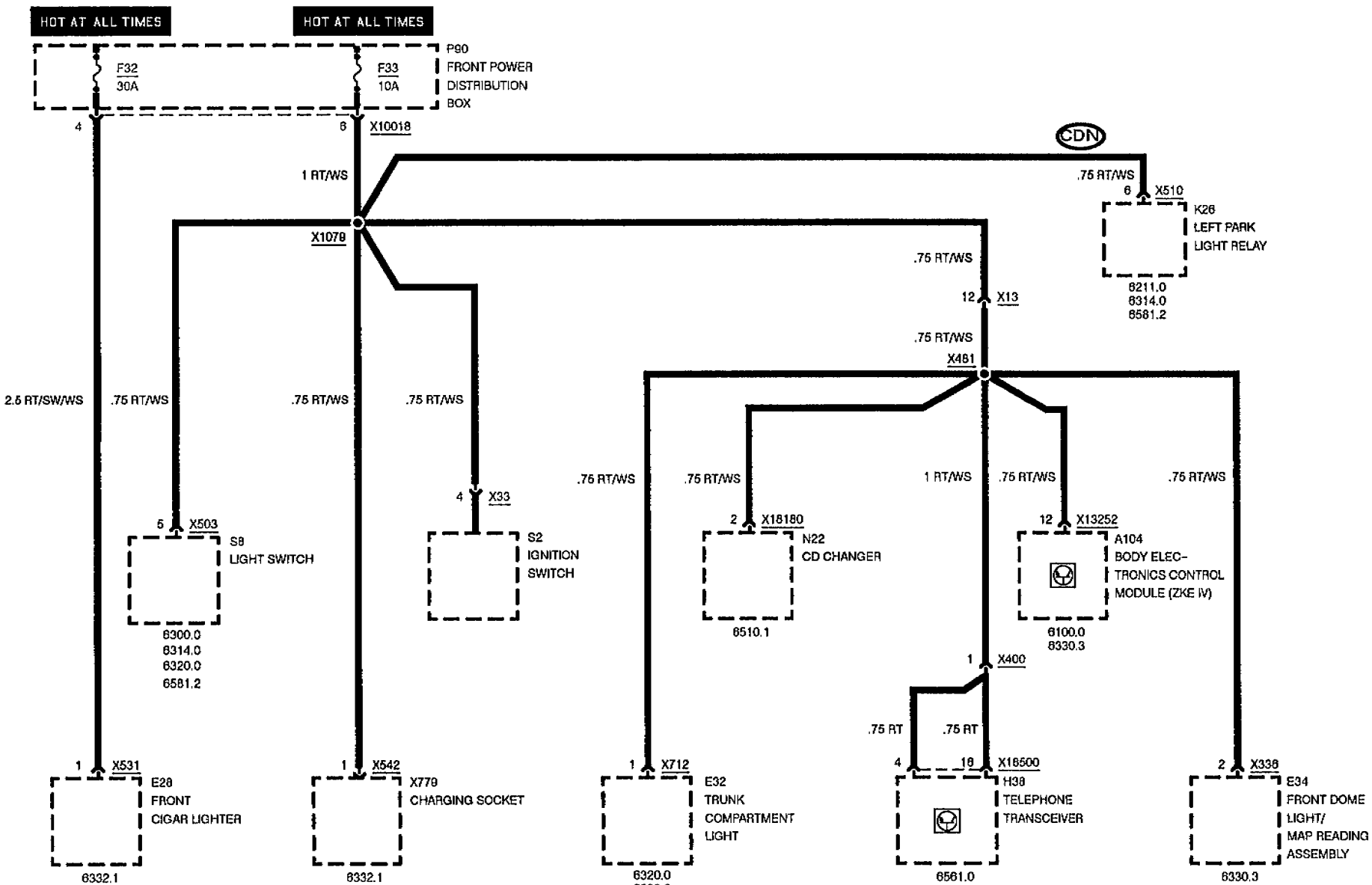
FUSE DETAILS

FUSE 31



FUSE DETAILS

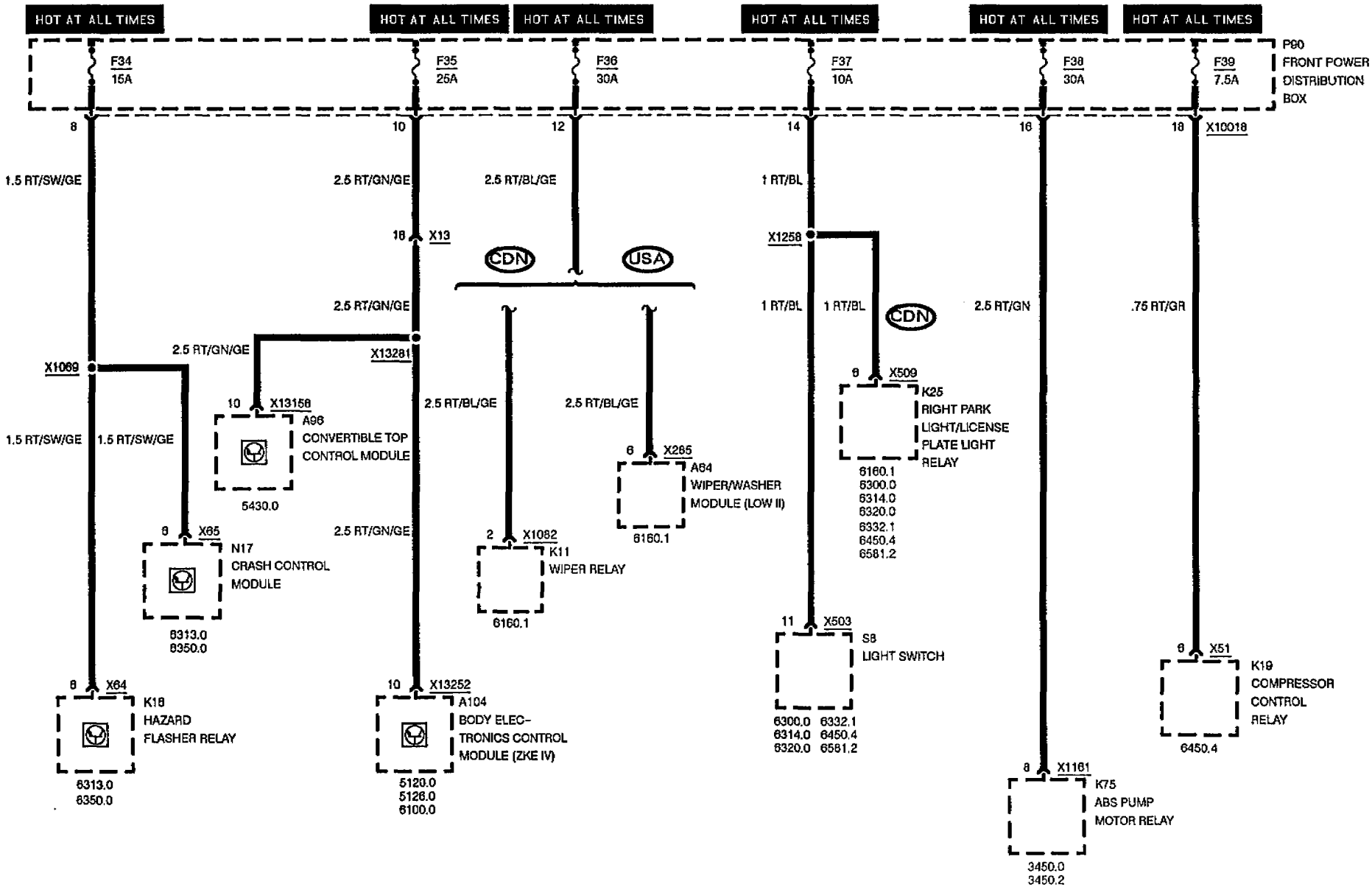
FUSES 32 AND 33



BMW 3

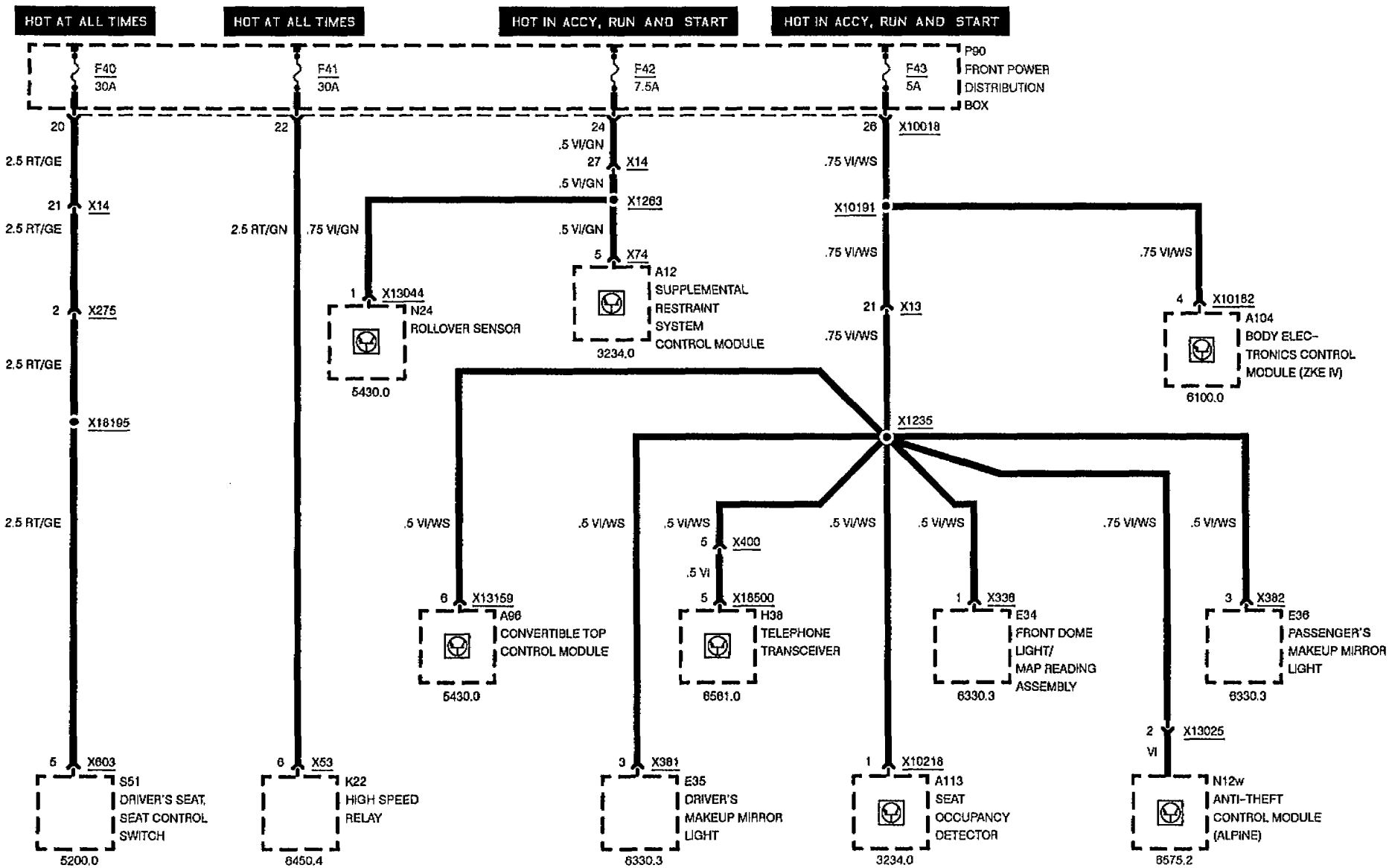
FUSE DETAILS

FUSES 34, 35, 36, 37, 38, AND 39



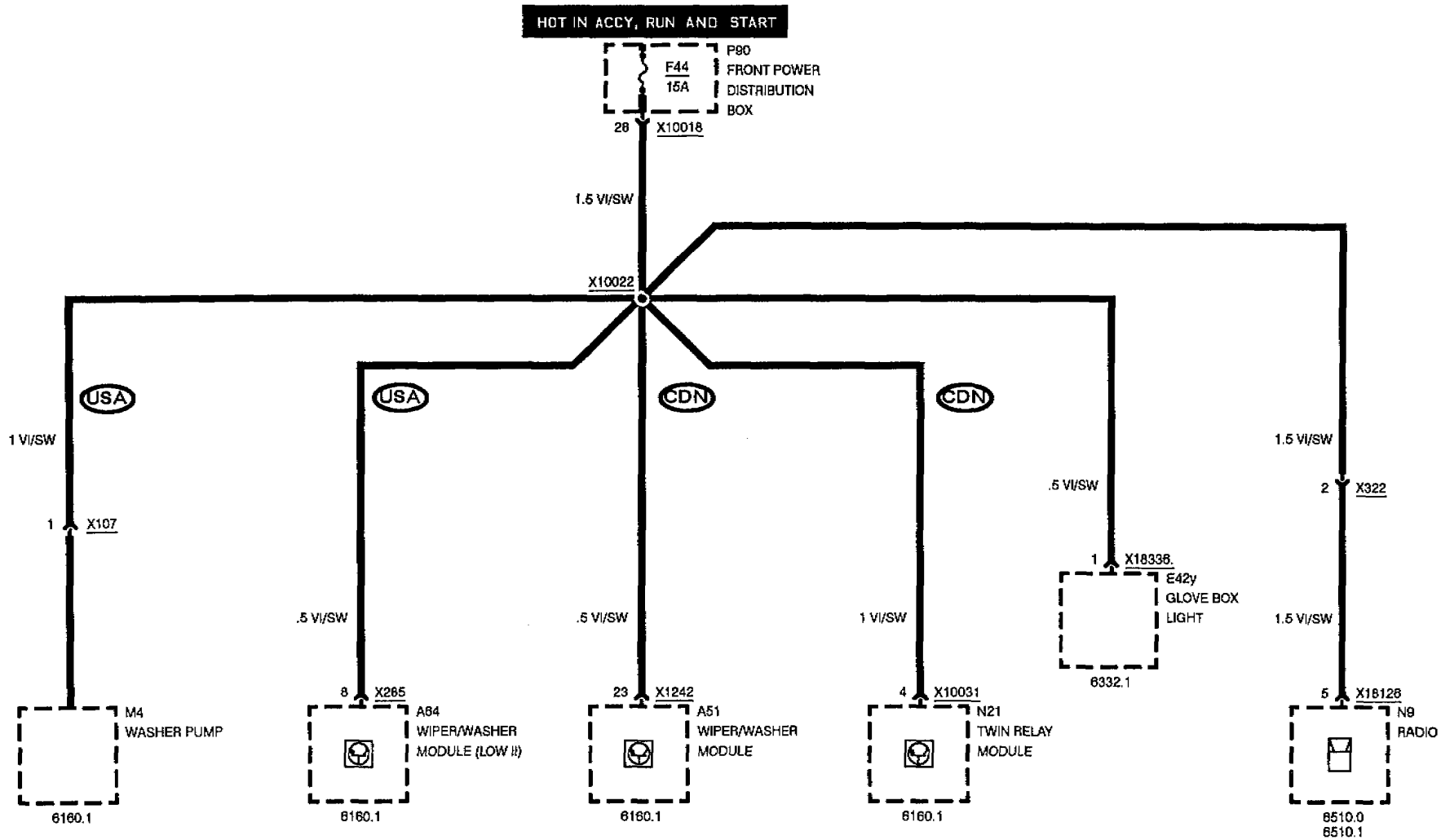
FUSE DETAILS

FUSES 40, 41, 42, AND 43



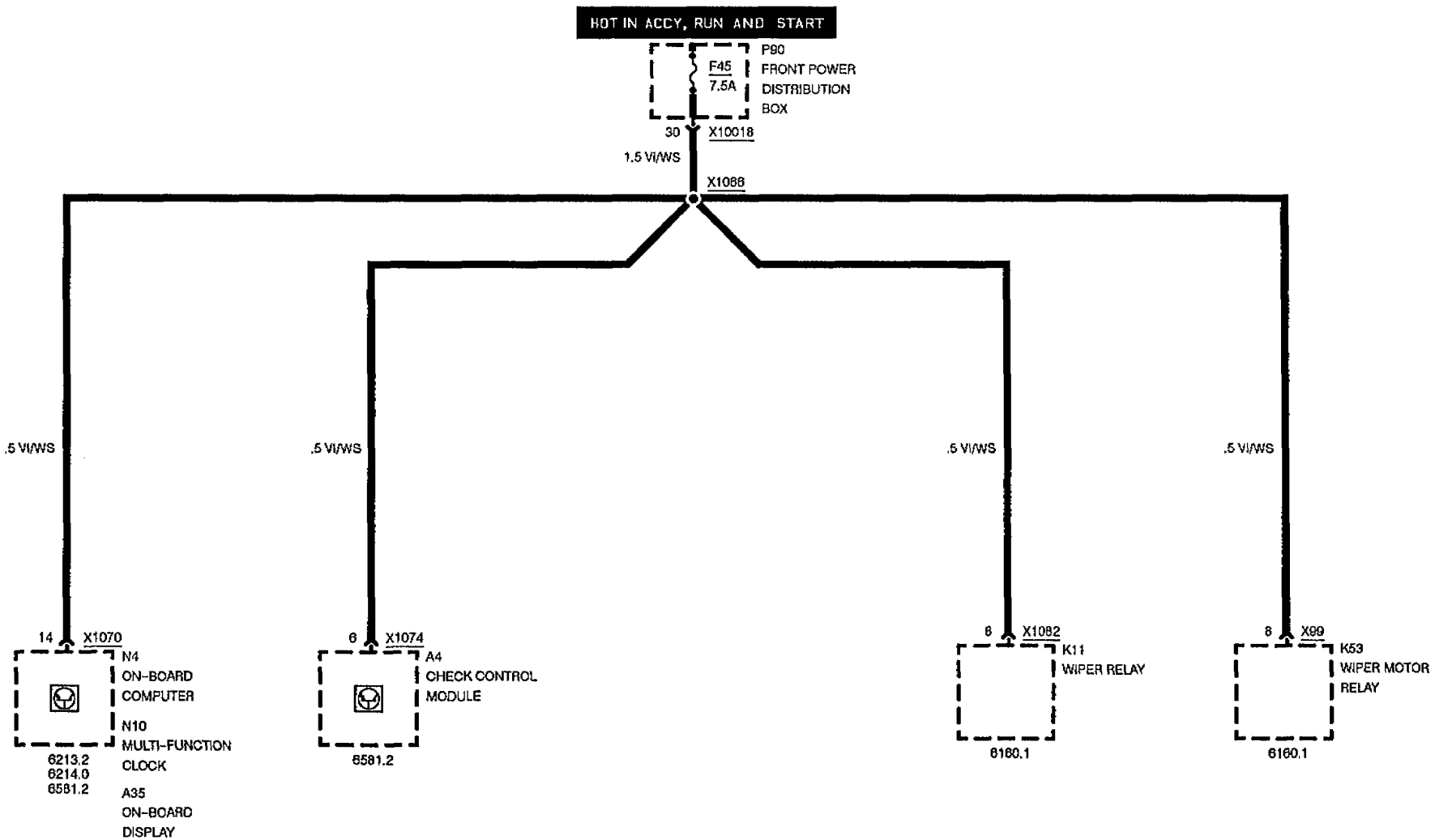
FUSE DETAILS

FUSE 44



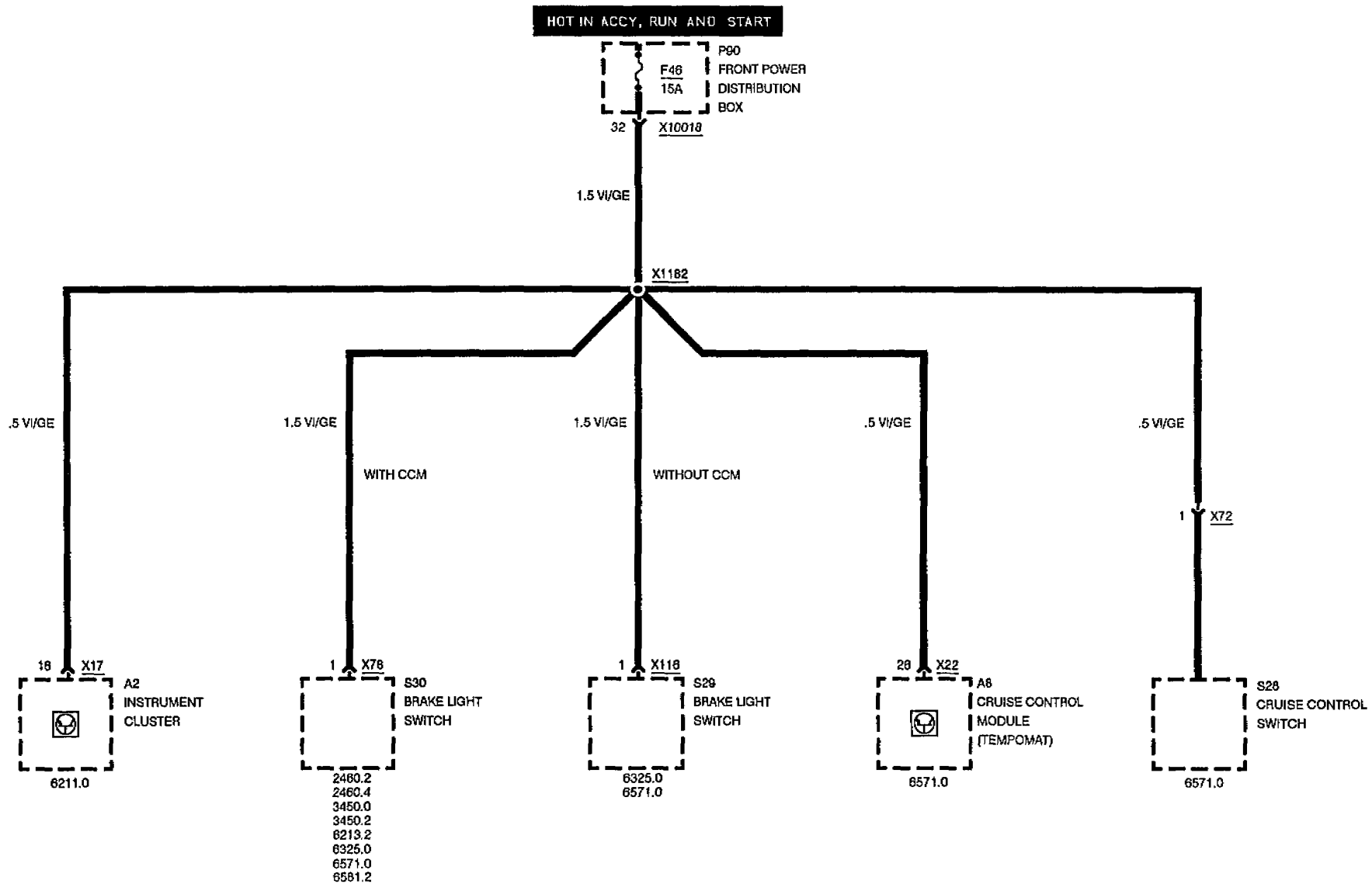
FUSE DETAILS

FUSE 45



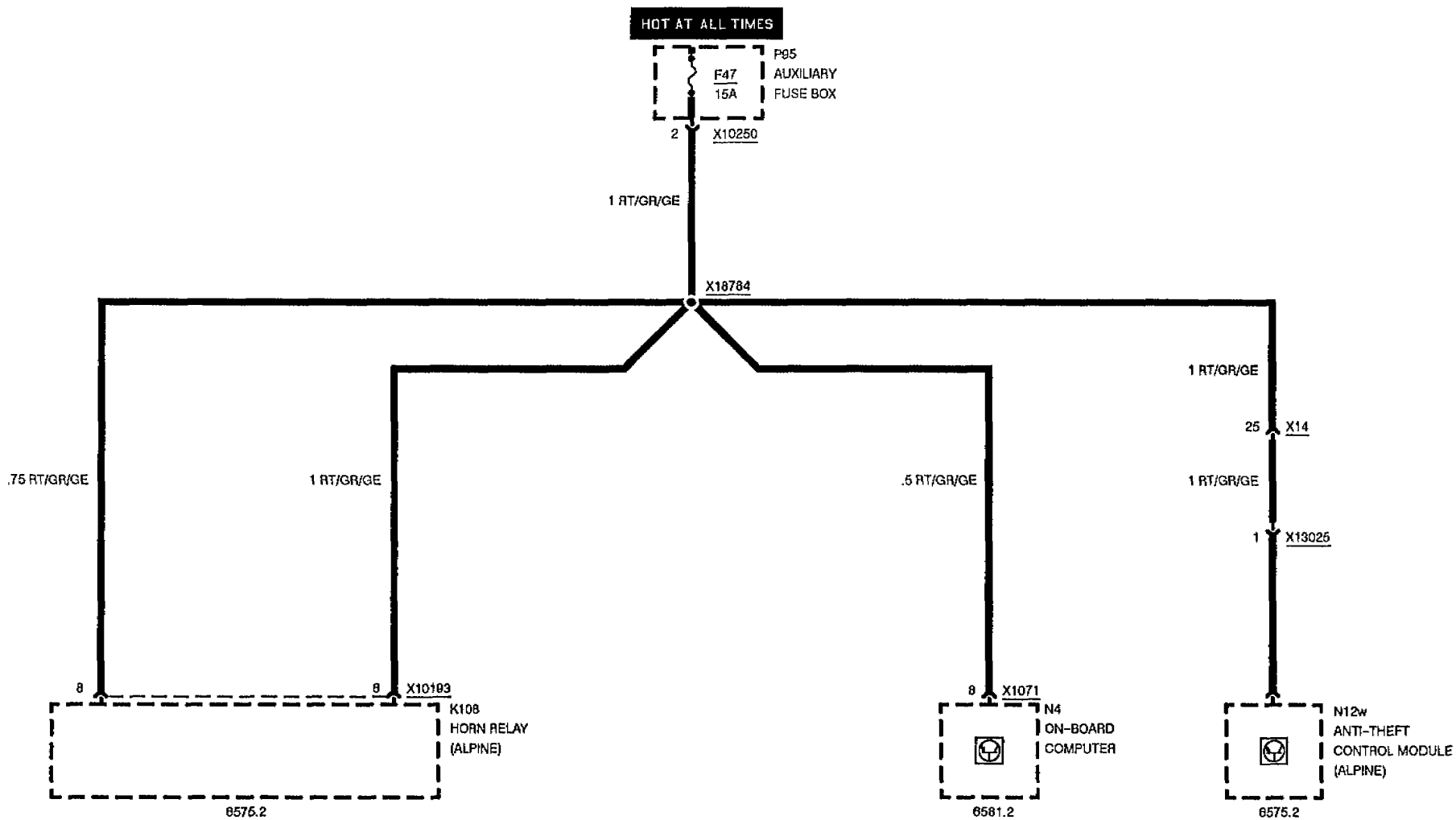
FUSE DETAILS

FUSE 46



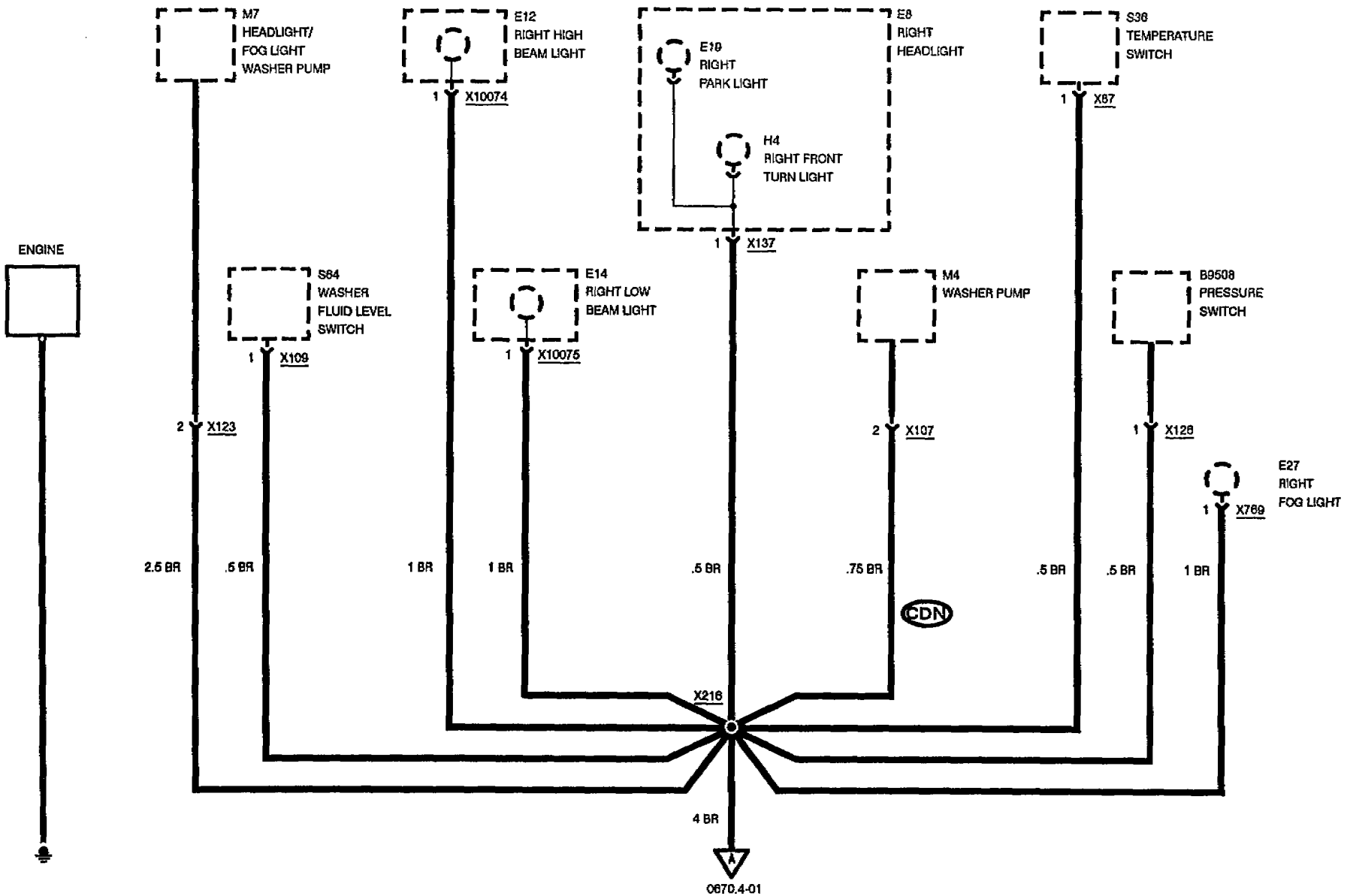
FUSE DETAILS

FUSE 47



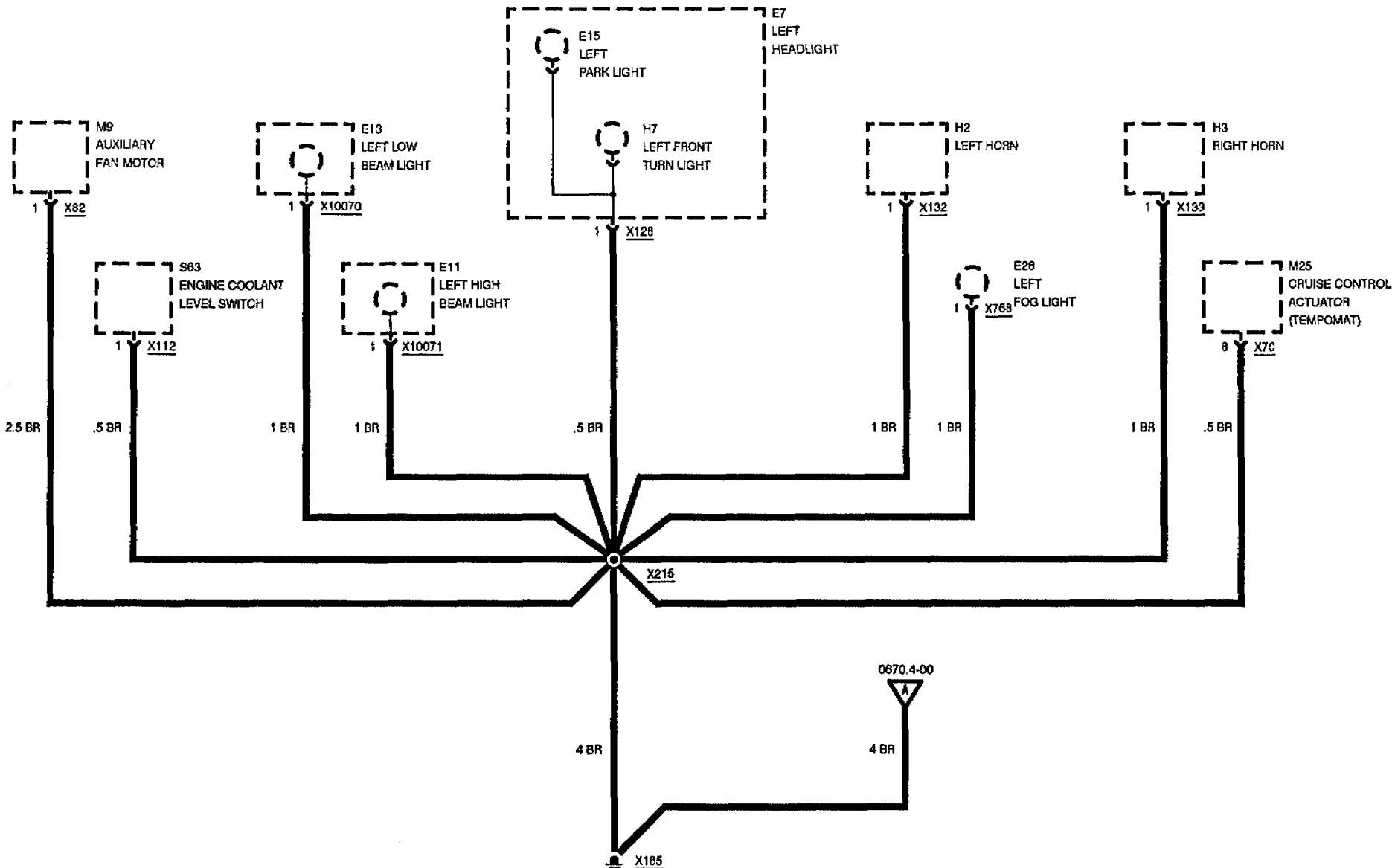
GROUND DISTRIBUTION

GROUND X165



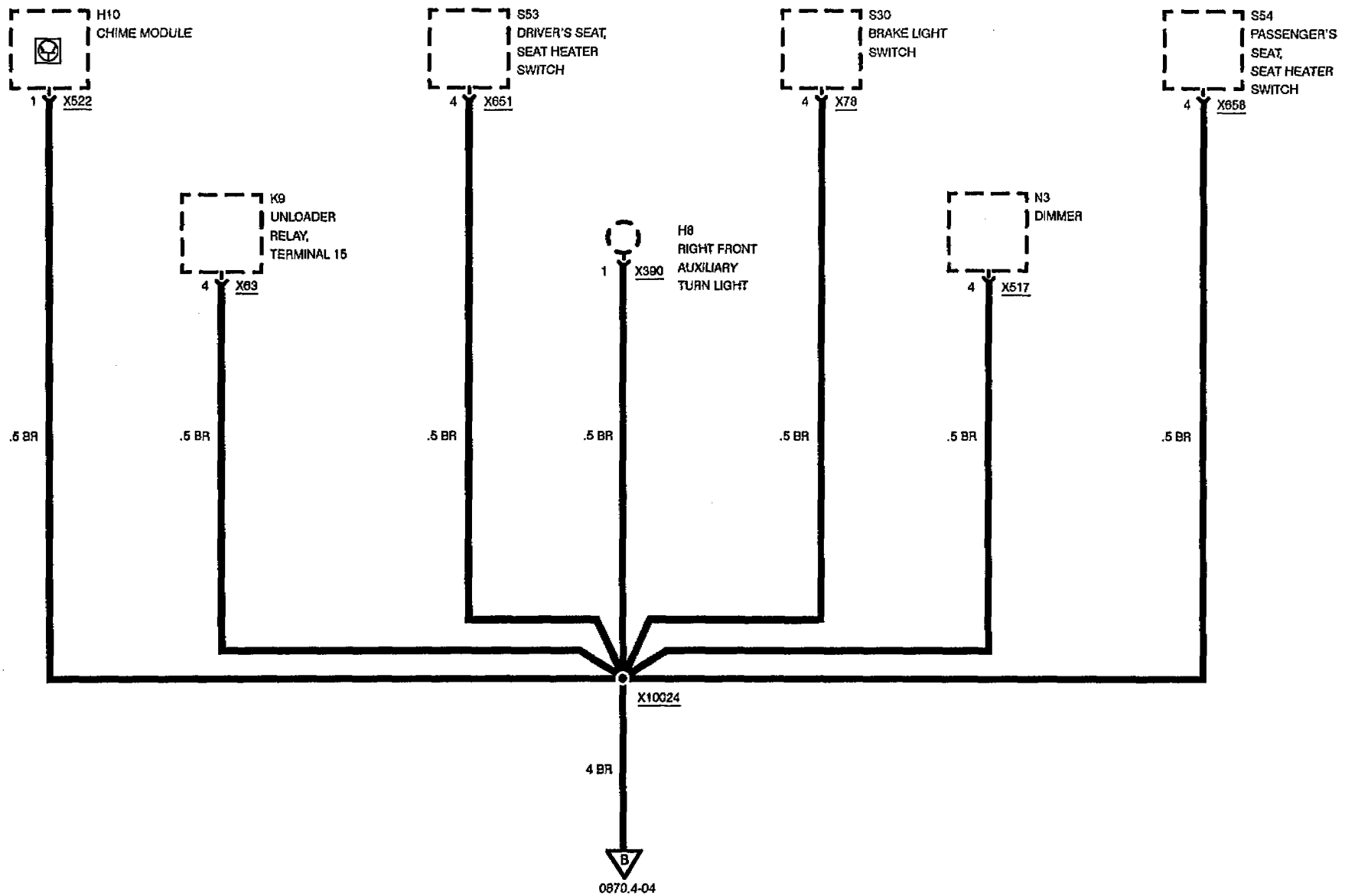
GROUND DISTRIBUTION

GROUND X165



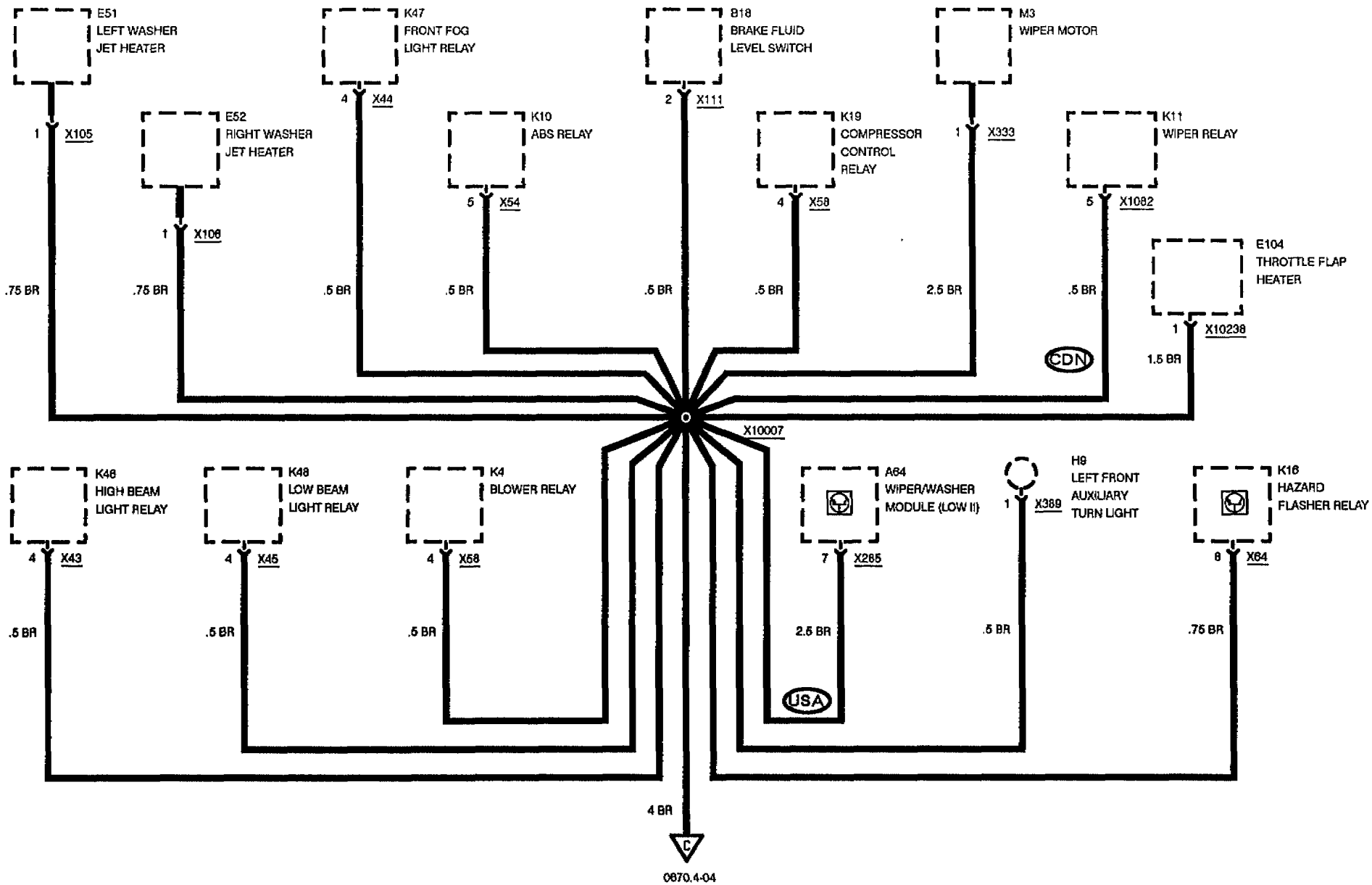
GROUND DISTRIBUTION

GROUND X173



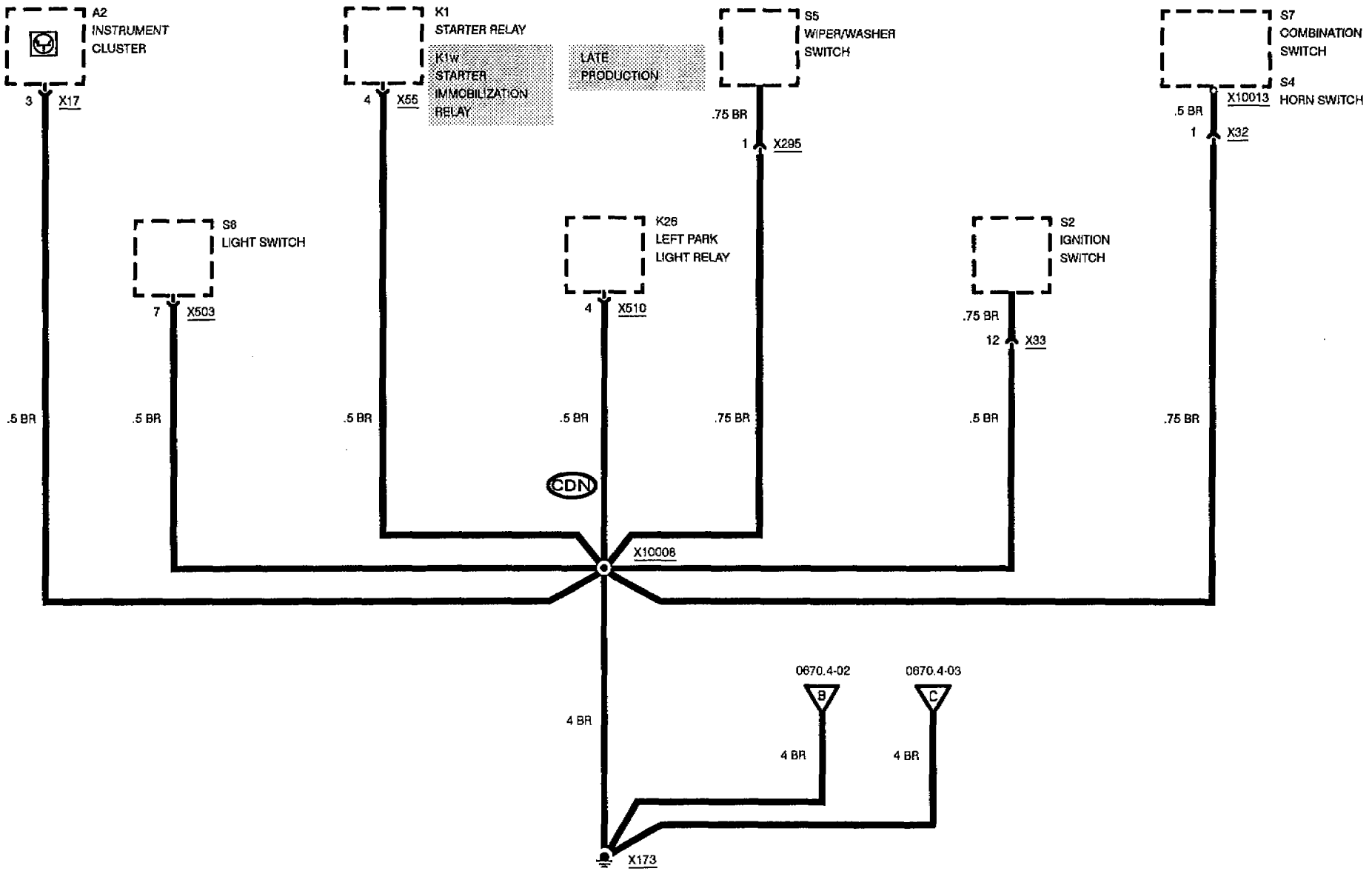
GROUND DISTRIBUTION

GROUND X173



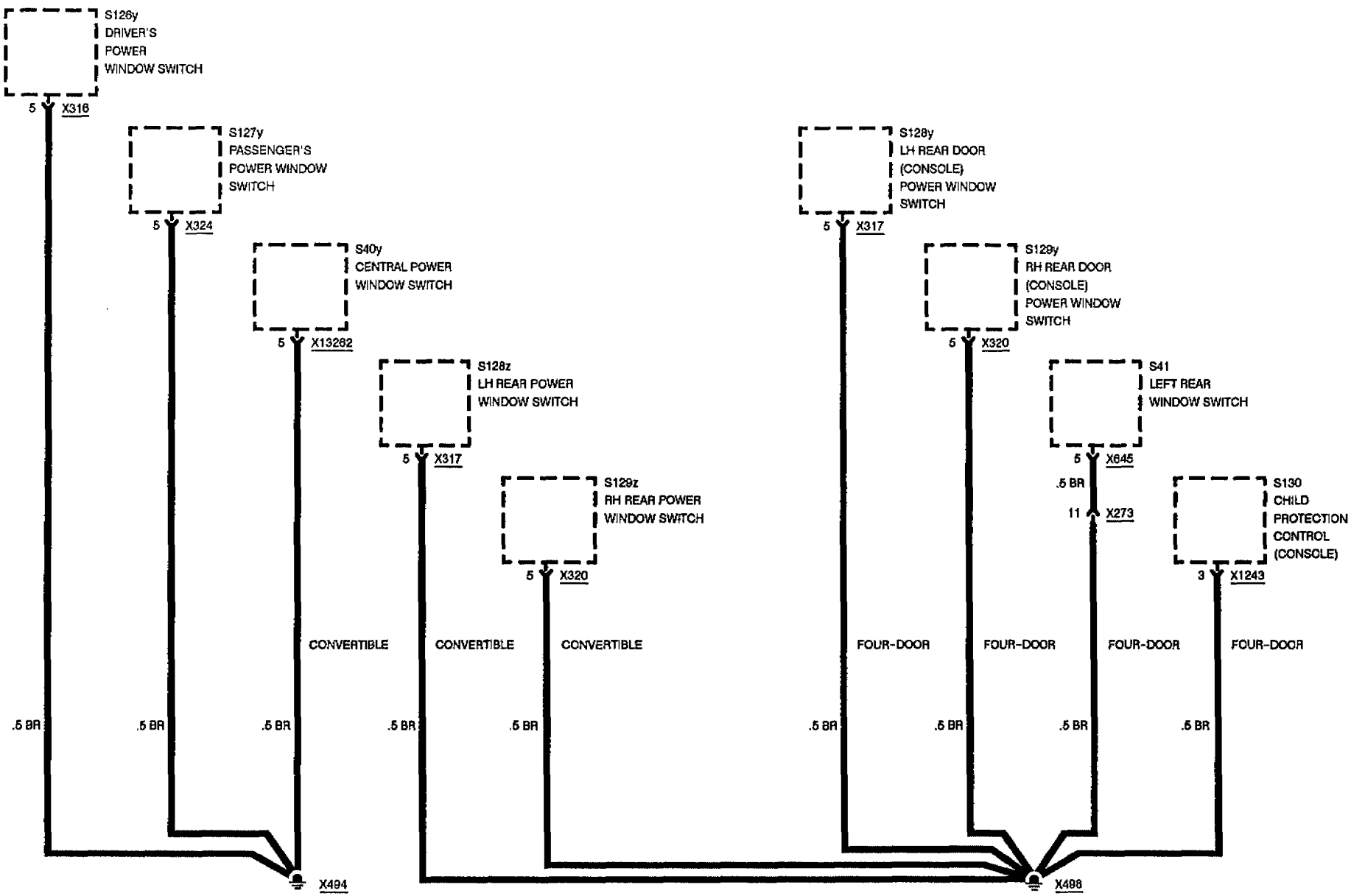
GROUND DISTRIBUTION

GROUND X173



GROUND DISTRIBUTION

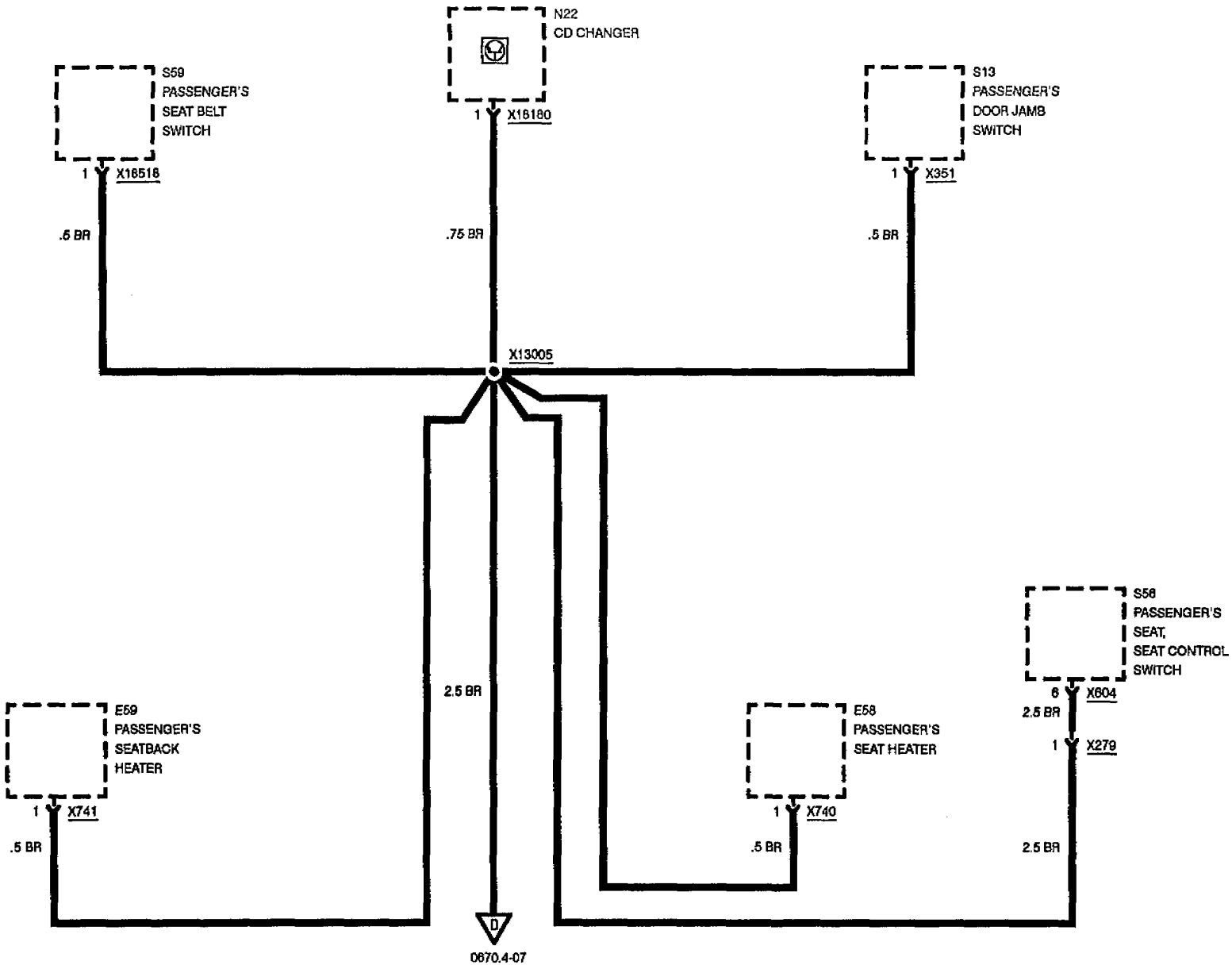
GROUNDS X494 AND X498



GROUND DISTRIBUTION

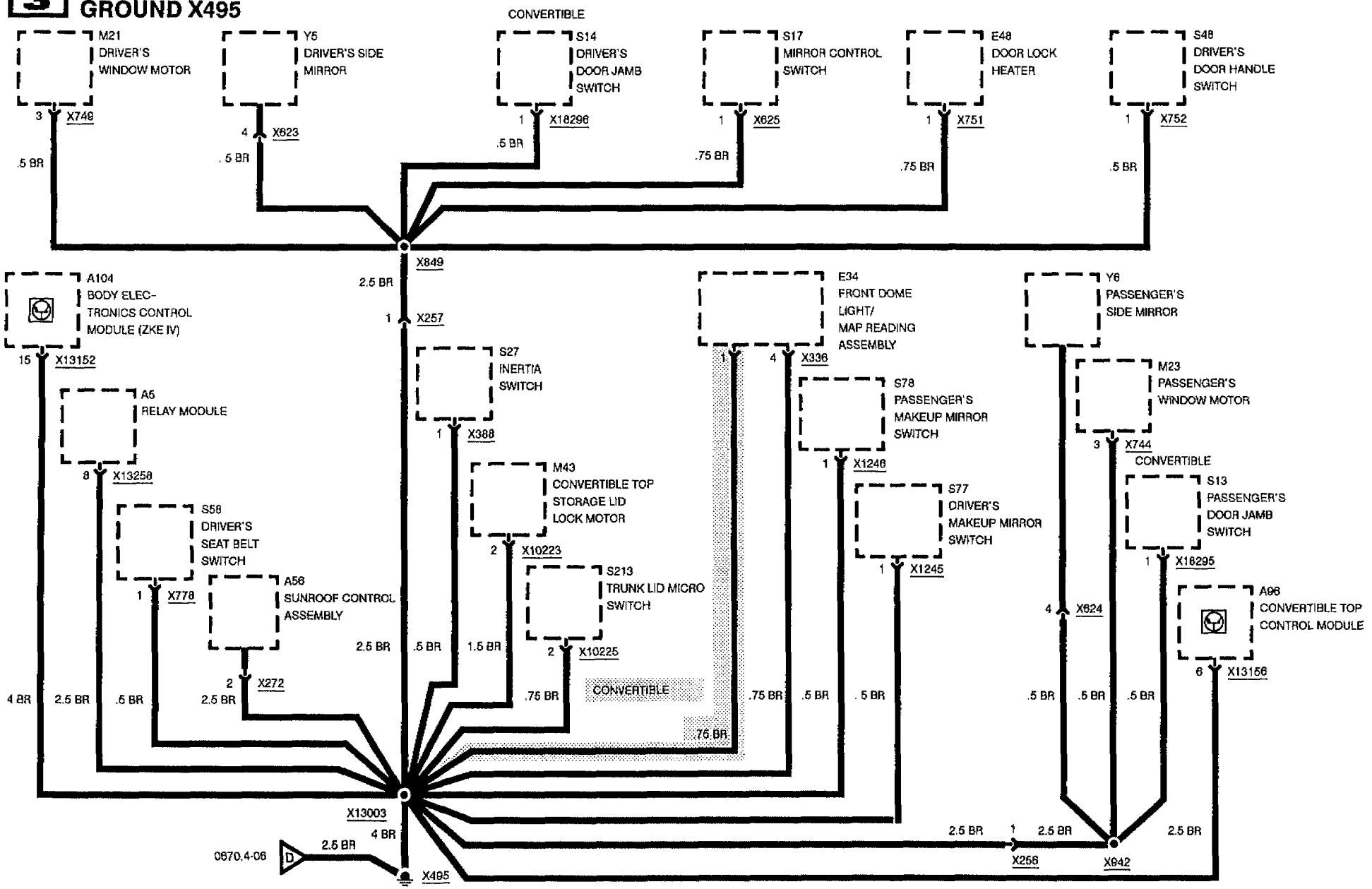
GROUND X495

TWO-DOOR



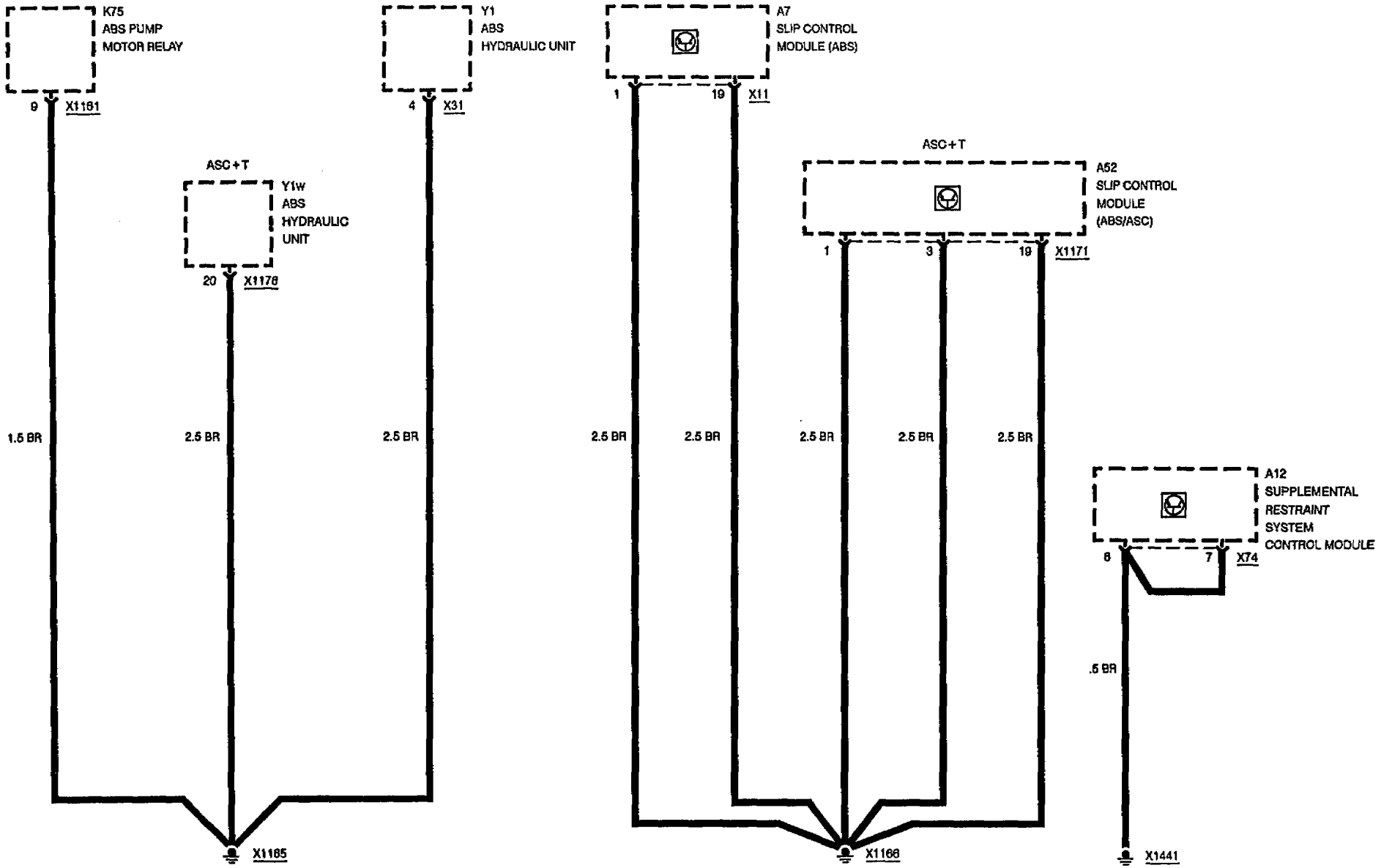
GROUND DISTRIBUTION

GROUND X495



GROUND DISTRIBUTION

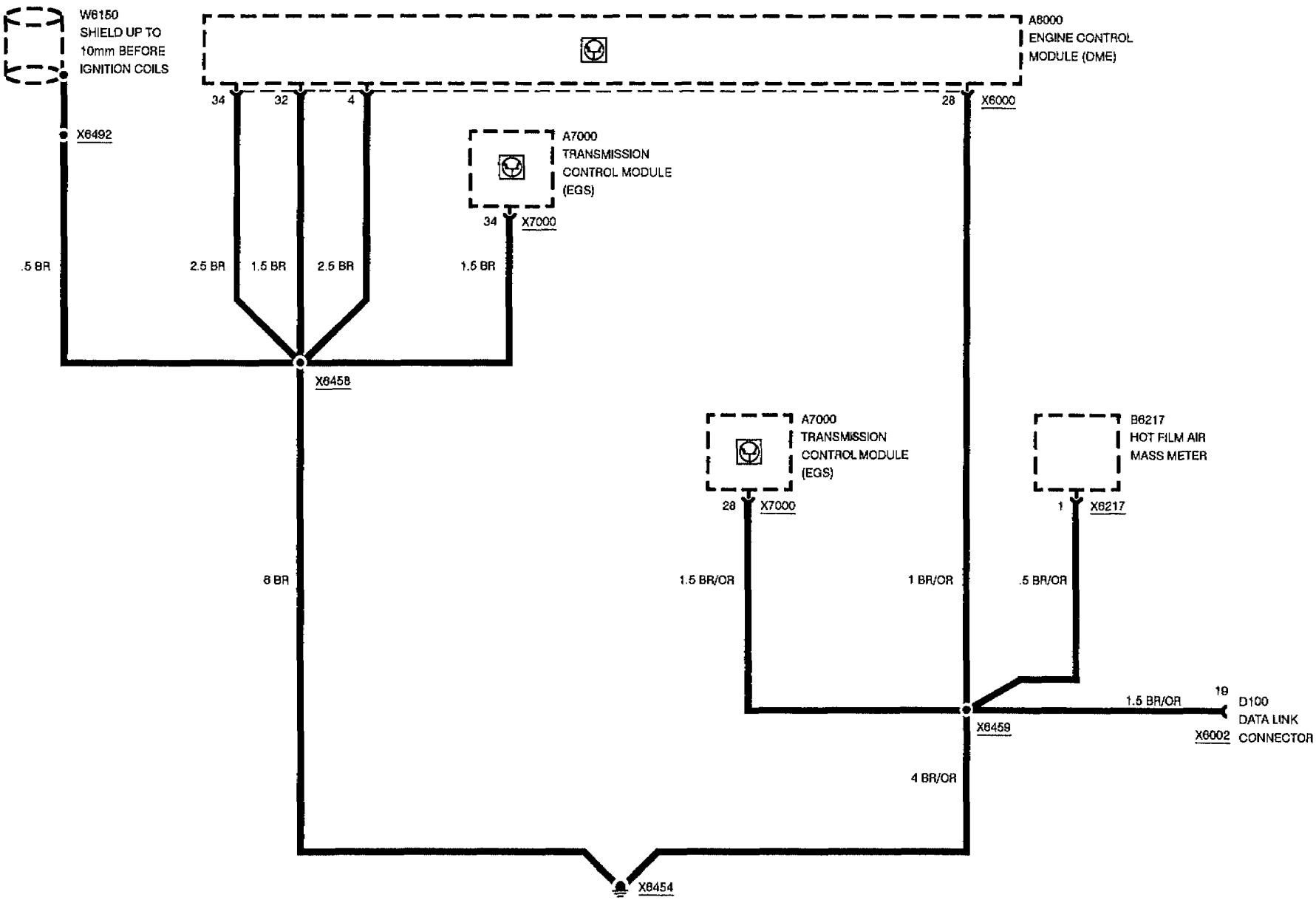
GROUNDS X1165, X1166, AND X1441

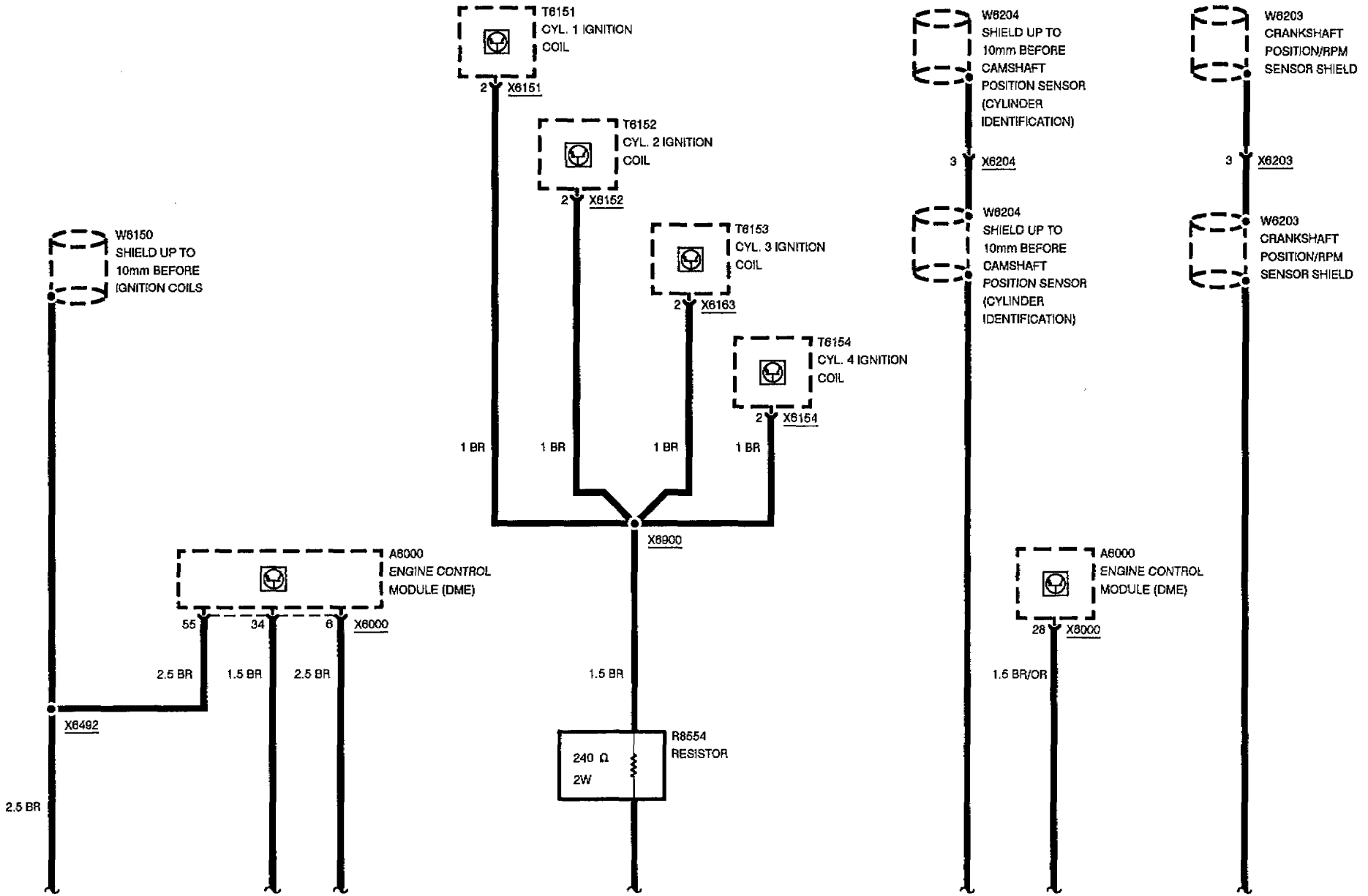


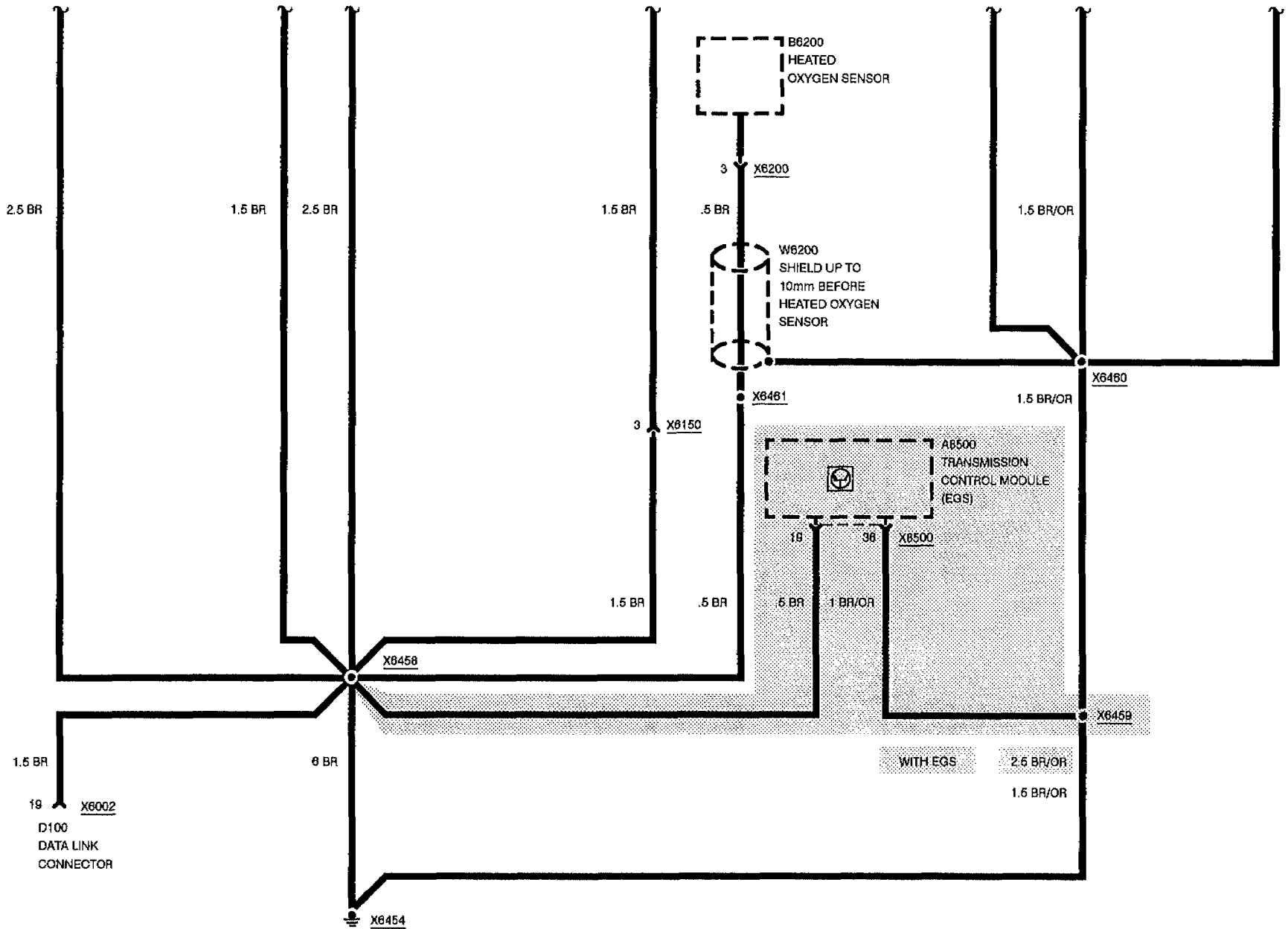
GROUND DISTRIBUTION

320i CDN

GROUND X6454

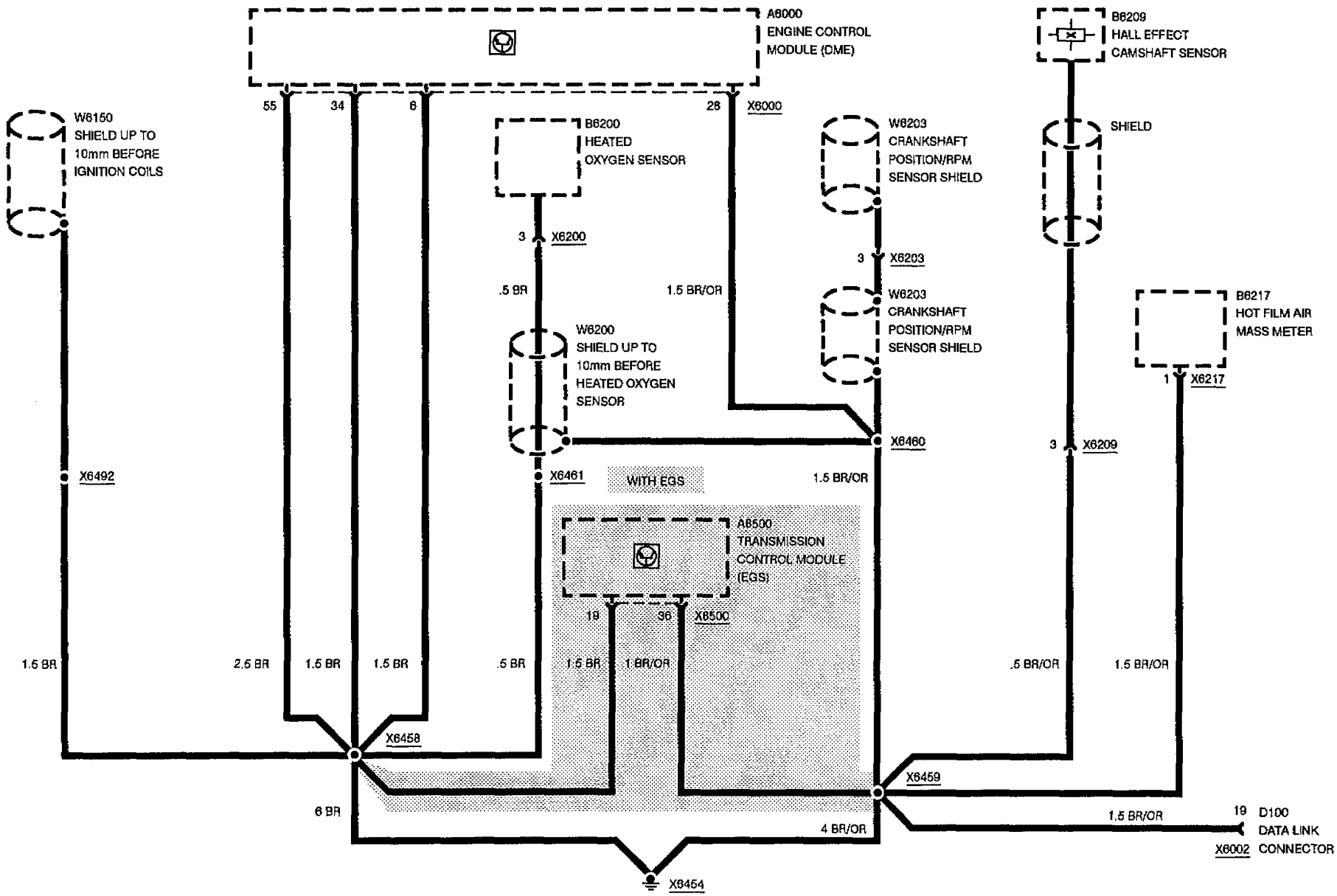



T6151
CYL. 1 IGNITION COIL
2
X6151
T6152
CYL. 2 IGNITION COIL
2
X6152
T6153
CYL. 3 IGNITION COIL
2
X6163
T6154
CYL. 4 IGNITION COIL
2
X6154
1 BR
1 BR
1 BR
1 BR
X6900
W6150
SHIELD UP TO 10mm BEFORE IGNITION COILS
A6000
ENGINE CONTROL MODULE (DME)
55
34
6
X6000
2.5 BR
1.5 BR
2.5 BR
X6492
2.5 BR
1.5 BR
R8554
240 Ω
2W
RESISTOR
W6204
SHIELD UP TO 10mm BEFORE CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
3
X6204
W6204
SHIELD UP TO 10mm BEFORE CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
A6000
ENGINE CONTROL MODULE (DME)
28
X6000
1.5 BR/OR
W6203
CRANKSHAFT POSITION/RPM SENSOR SHIELD
3
X6203
W6203
CRANKSHAFT POSITION/RPM SENSOR SHIELD


B6200
HEATED
OXYGEN SENSOR
3
X6200
2.5 BR
1.5 BR
2.5 BR
1.5 BR
.5 BR
1.5 BR/OR
W6200
SHIELD UP TO
10mm BEFORE
HEATED OXYGEN
SENSOR
X6460
X6461
1.5 BR/OR
3
X6150
A6500
TRANSMISSION
CONTROL MODULE
(EGS)
19
38
X6500
1.5 BR
.5 BR
.5 BR
1 BR/OR
X6458
X6459
WITH EGS
2.5 BR/OR
1.5 BR/OR
1.5 BR
6 BR
19
X6002
D100
DATA LINK
CONNECTOR
X6454

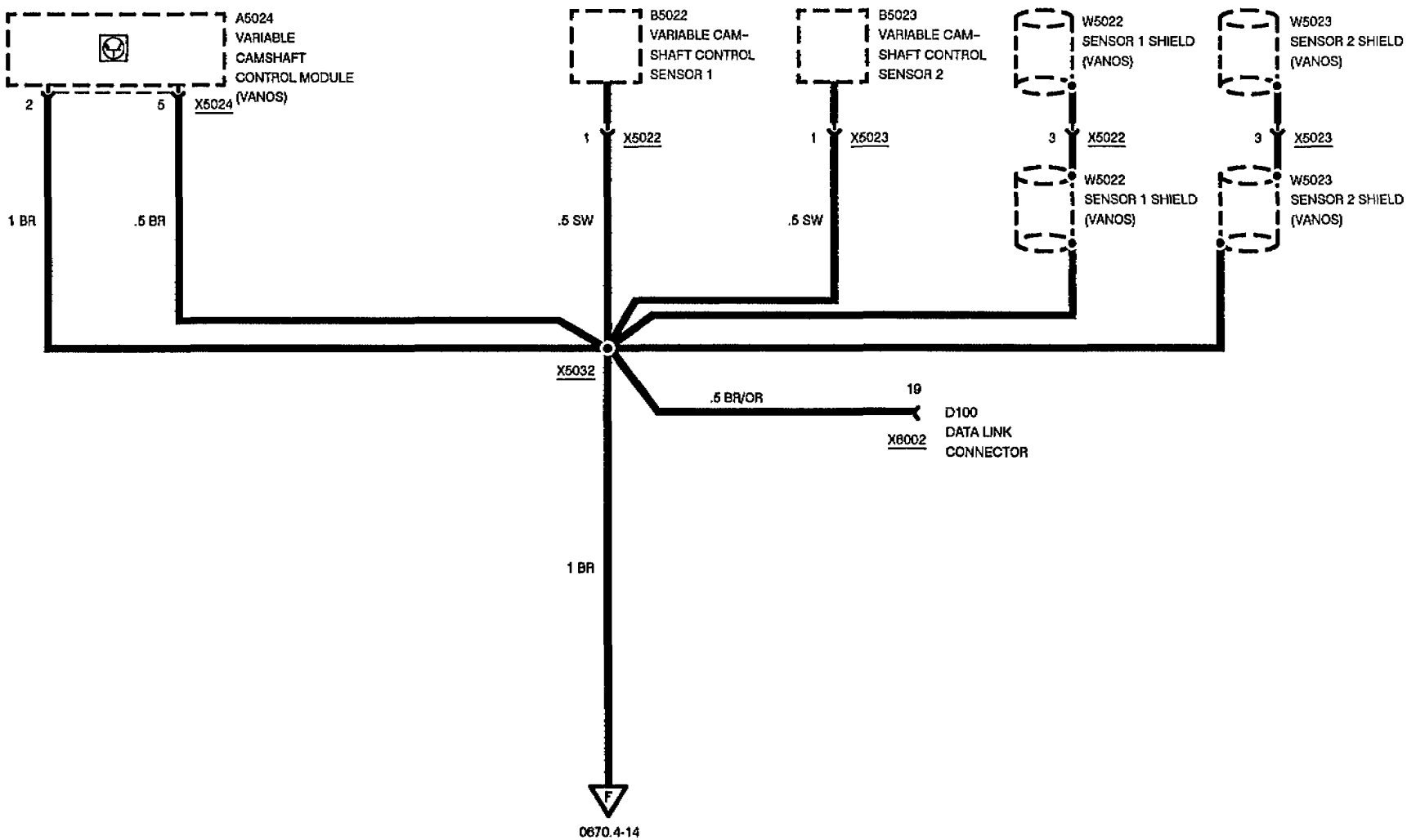
GROUND DISTRIBUTION

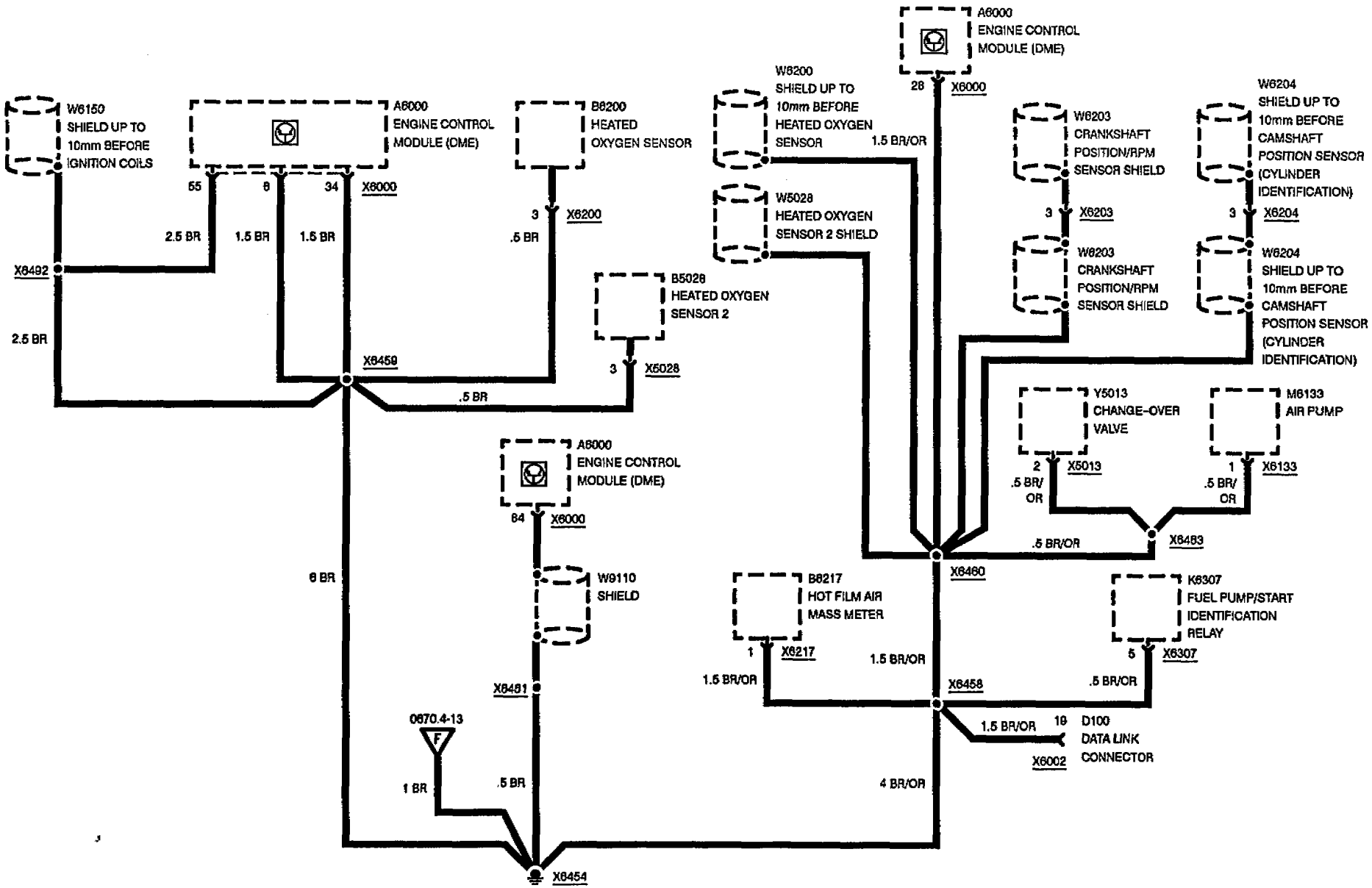
GROUND X6454



GROUND DISTRIBUTION

GROUND X6454

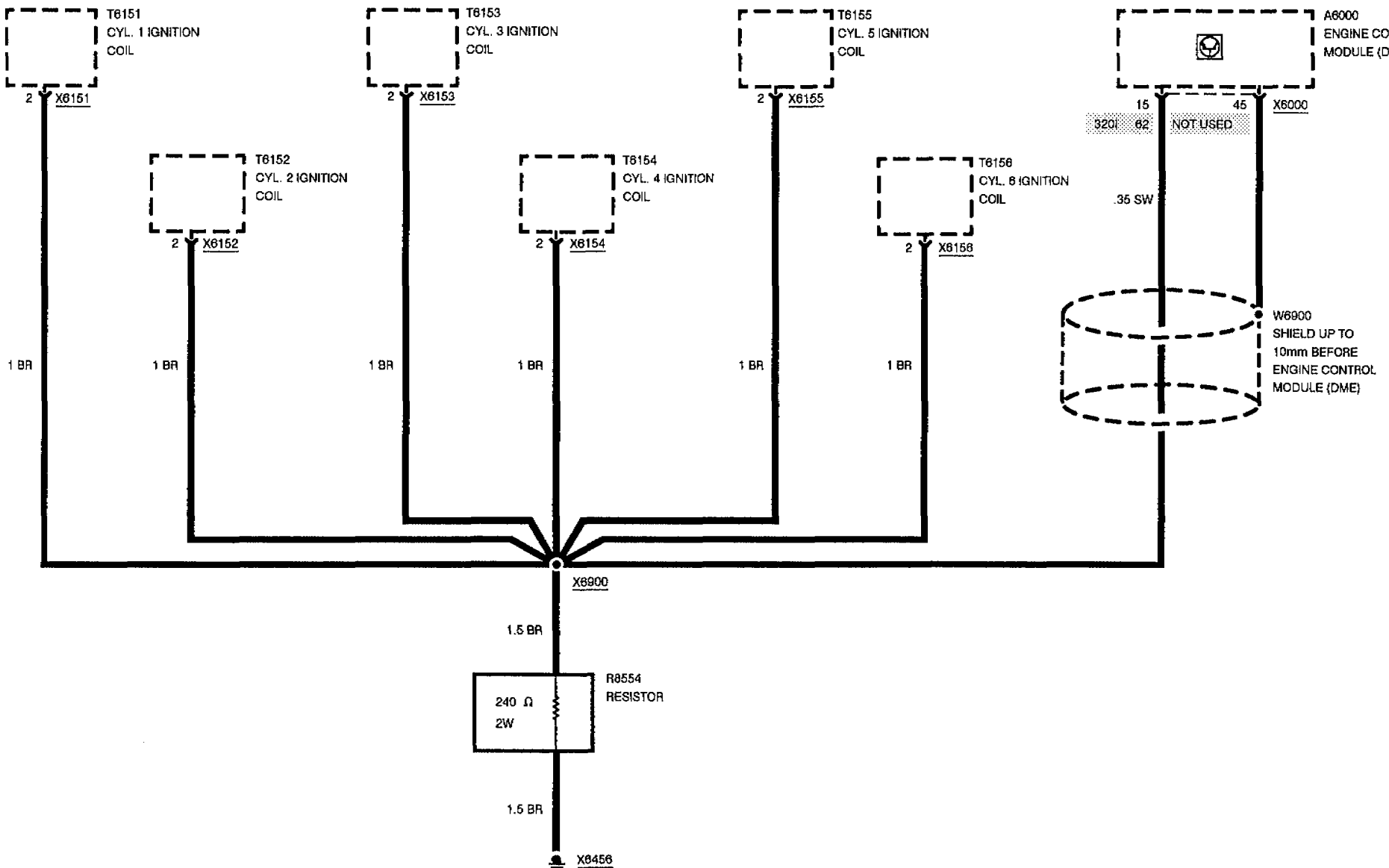



W6150
SHIELD UP TO
10mm BEFORE
IGNITION COILS
A6000
ENGINE CONTROL
MODULE (DME)
55
6
34
X6000
B6200
HEATED
OXYGEN SENSOR
3
X6200
W6200
SHIELD UP TO
10mm BEFORE
HEATED OXYGEN
SENSOR
W5028
HEATED OXYGEN
SENSOR 2 SHIELD
B5028
HEATED OXYGEN
SENSOR 2
3
X5028
A6000
ENGINE CONTROL
MODULE (DME)
28
X6000
W6203
CRANKSHAFT
POSITION/RPM
SENSOR SHIELD
3
X6203
W6204
SHIELD UP TO
10mm BEFORE
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
3
X6204
W6203
CRANKSHAFT
POSITION/RPM
SENSOR SHIELD
W6204
SHIELD UP TO
10mm BEFORE
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
Y5013
CHANGE-OVER
VALVE
2
X5013
M6133
AIR PUMP
1
X6133
A6000
ENGINE CONTROL
MODULE (DME)
84
X6000
W9110
SHIELD
B6217
HOT FILM AIR
MASS METER
1
X6217
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
5
X6307
0670.4-13
F
D100
DATA LINK
CONNECTOR
X6002
19
X6454
X6459
X6460
X6461
X6463
X6458
X6492
2.5 BR
1.5 BR
1.5 BR
.5 BR
.5 BR
2.5 BR
.5 BR
6 BR
1 BR
.5 BR
1.5 BR/OR
1.5 BR/OR
1.5 BR/OR
.5 BR/OR
.5 BR/OR
4 BR/OR
.5 BR/
OR
.5 BR/
OR

GROUND DISTRIBUTION

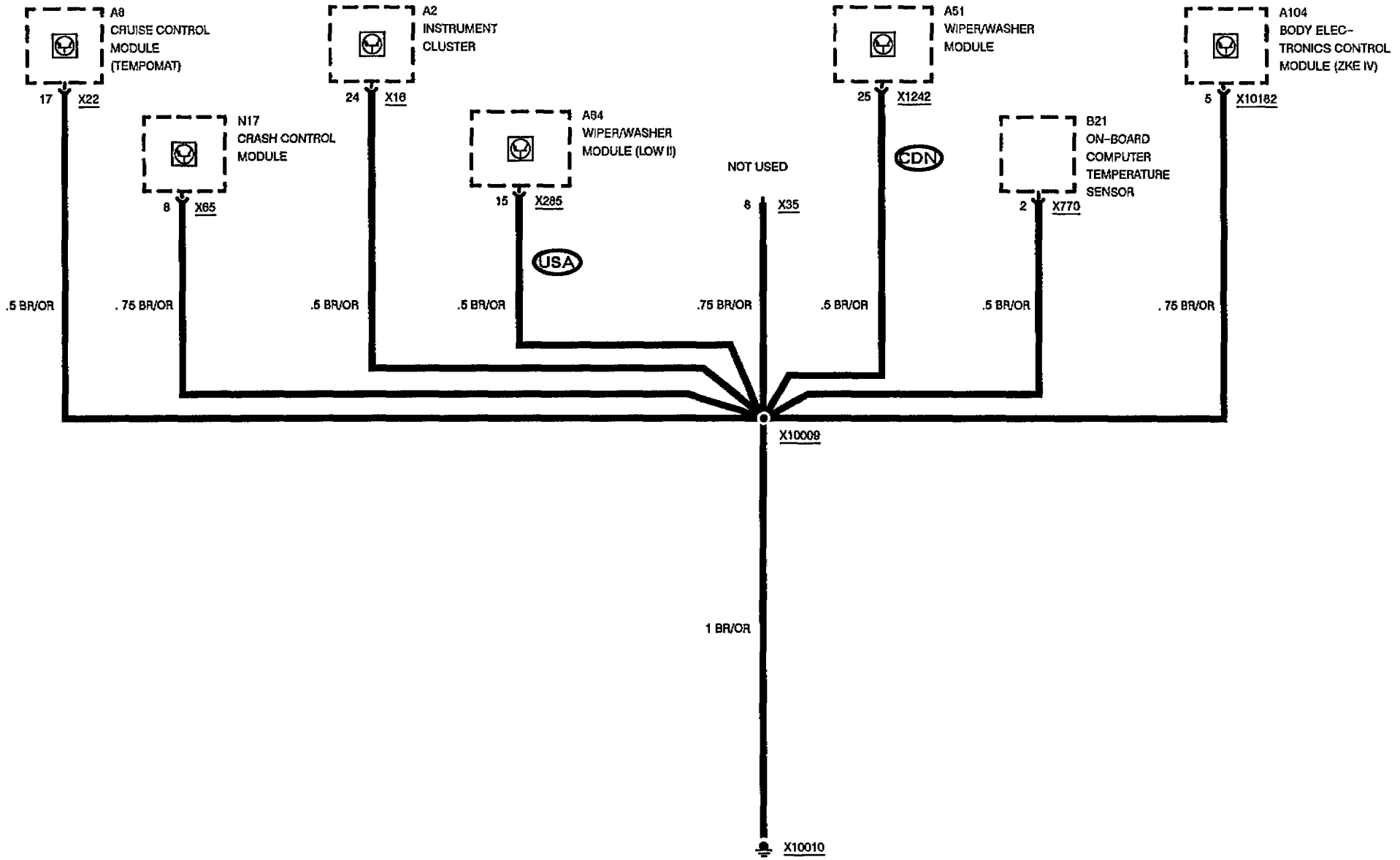
320i, 325i, M3 CDN

GROUND X6456



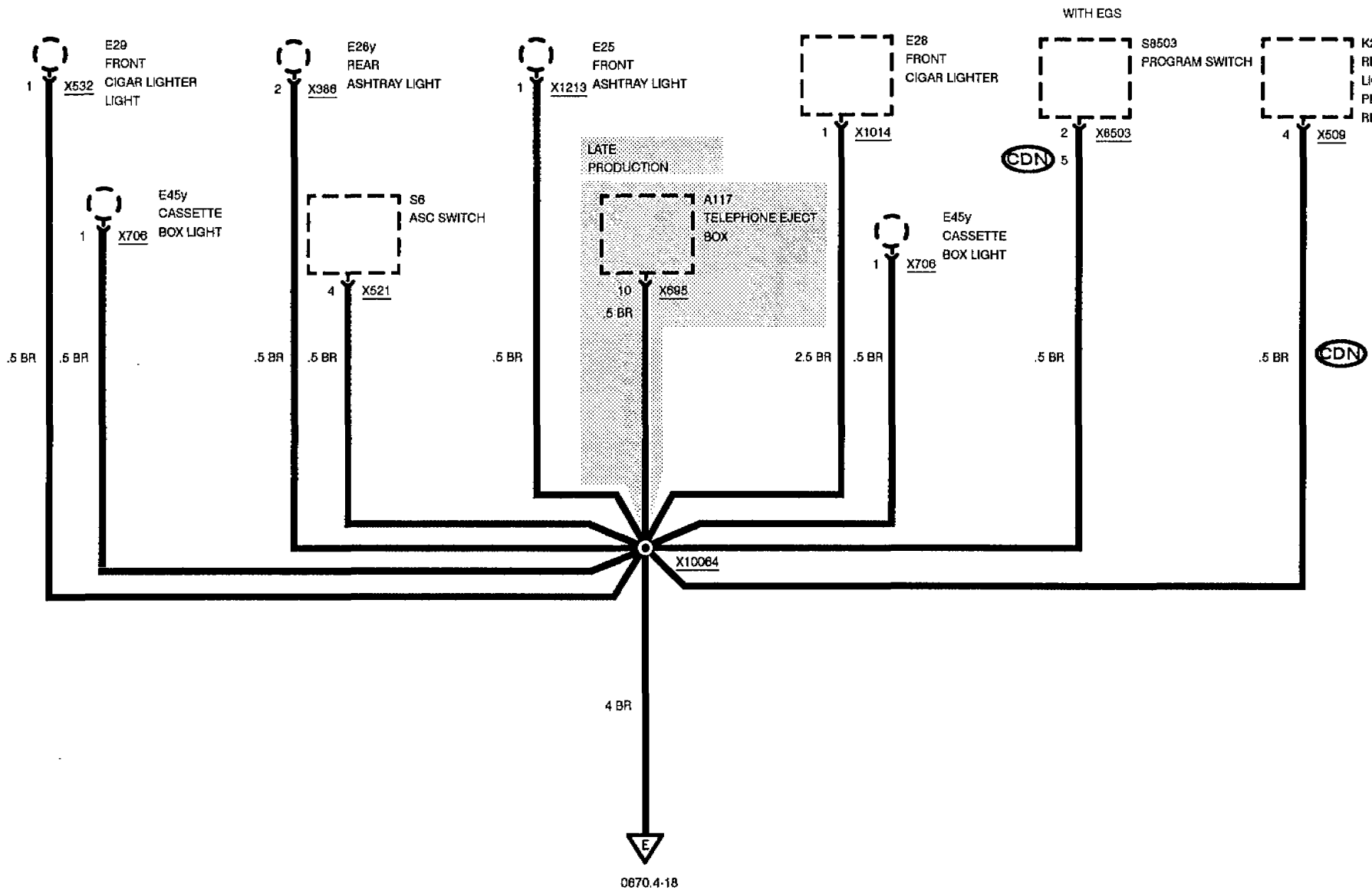
GROUND DISTRIBUTION

GROUND X10010



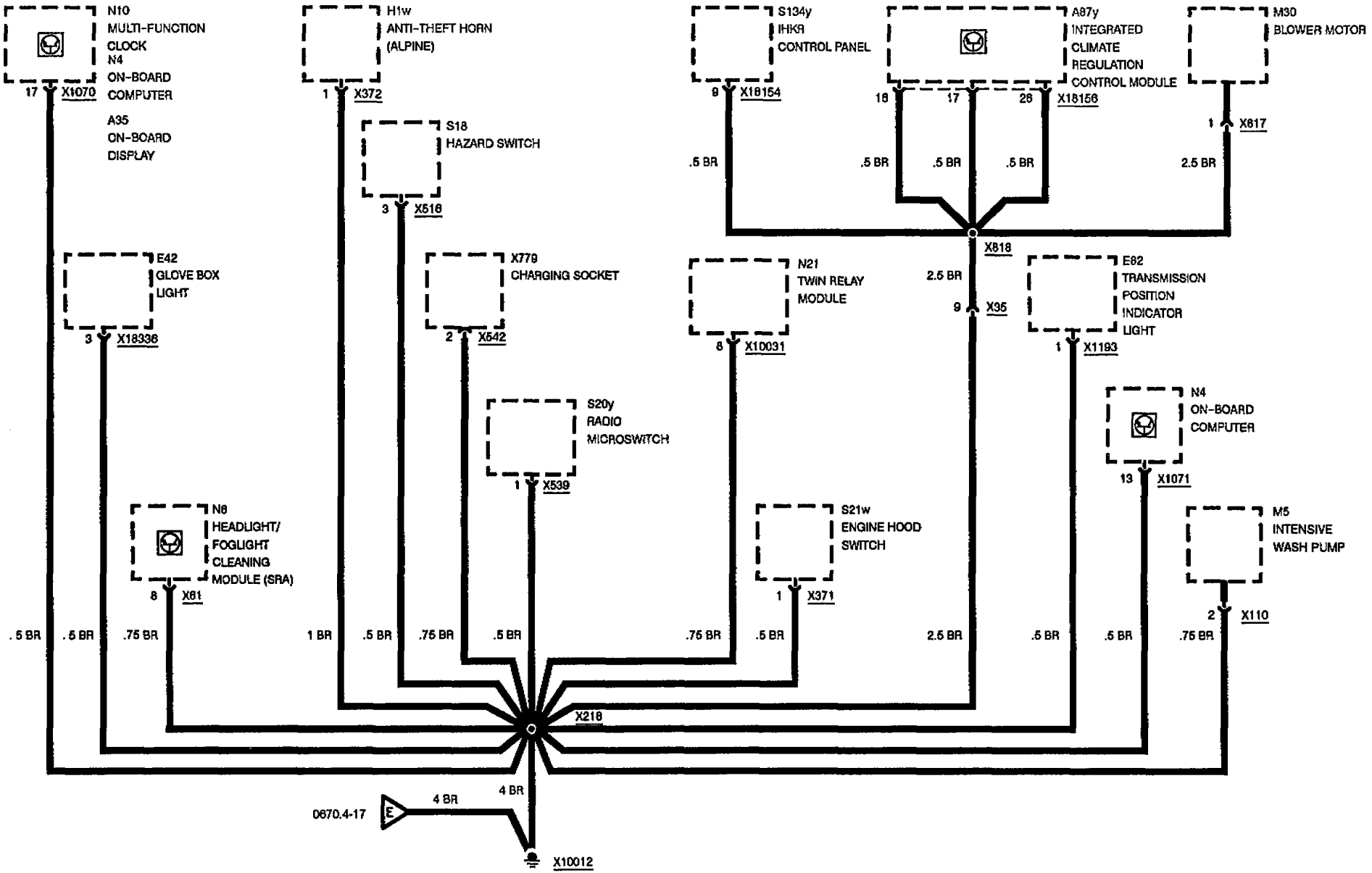
GROUND DISTRIBUTION

GROUND X10012



GROUND DISTRIBUTION

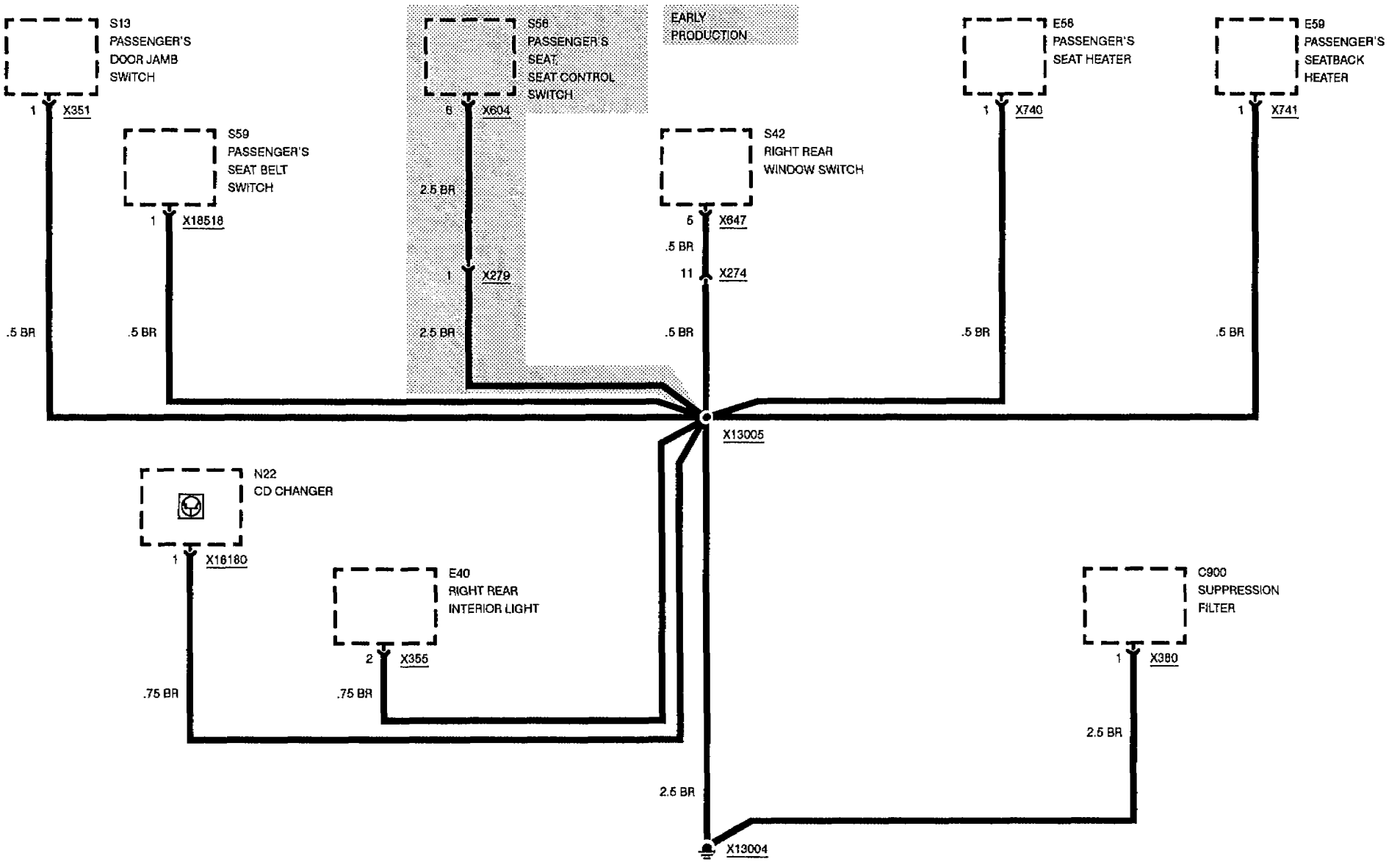
GROUND X10012



GROUND DISTRIBUTION

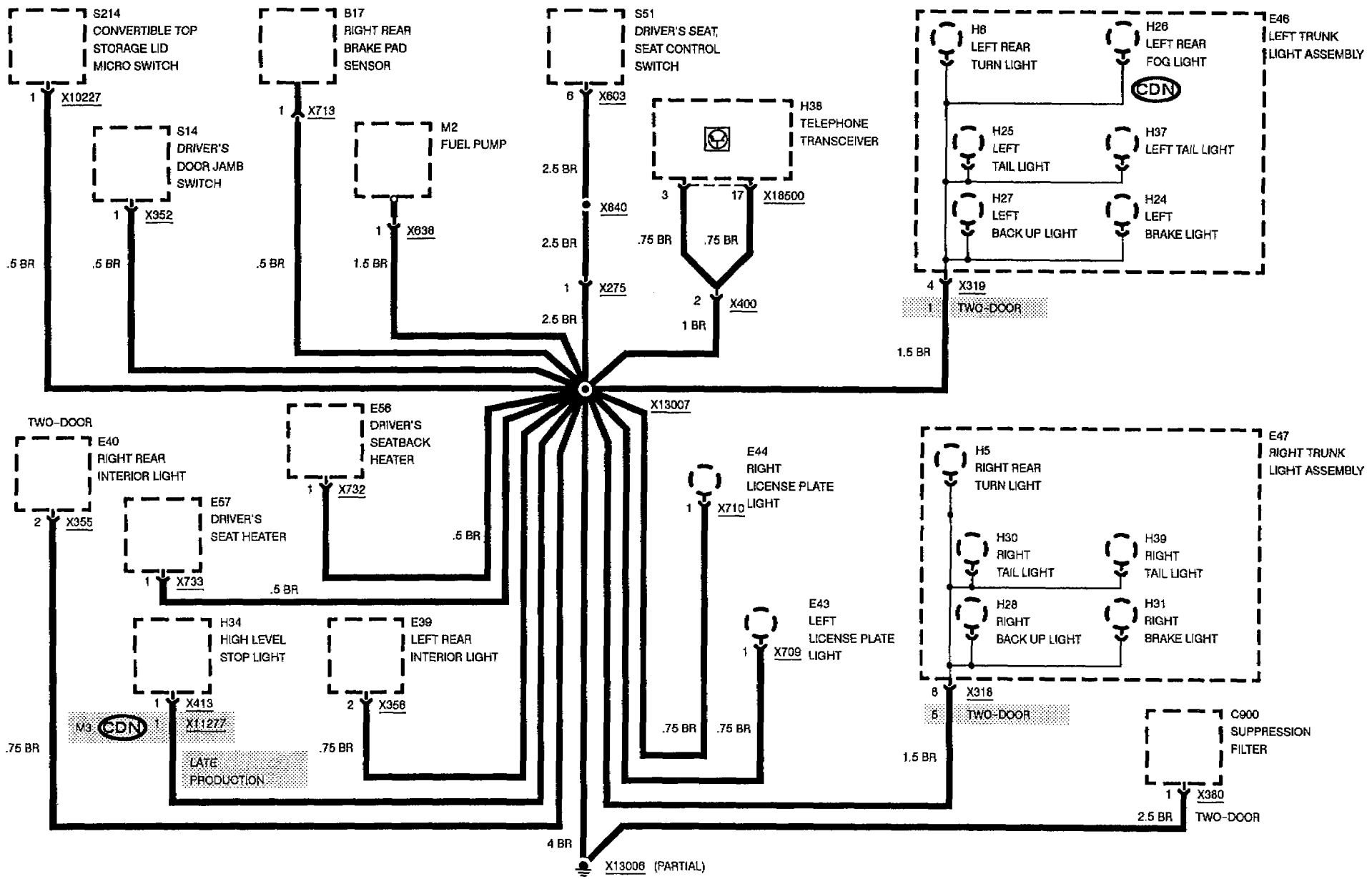
FOUR-DOOR

GROUND X13004



GROUND DISTRIBUTION

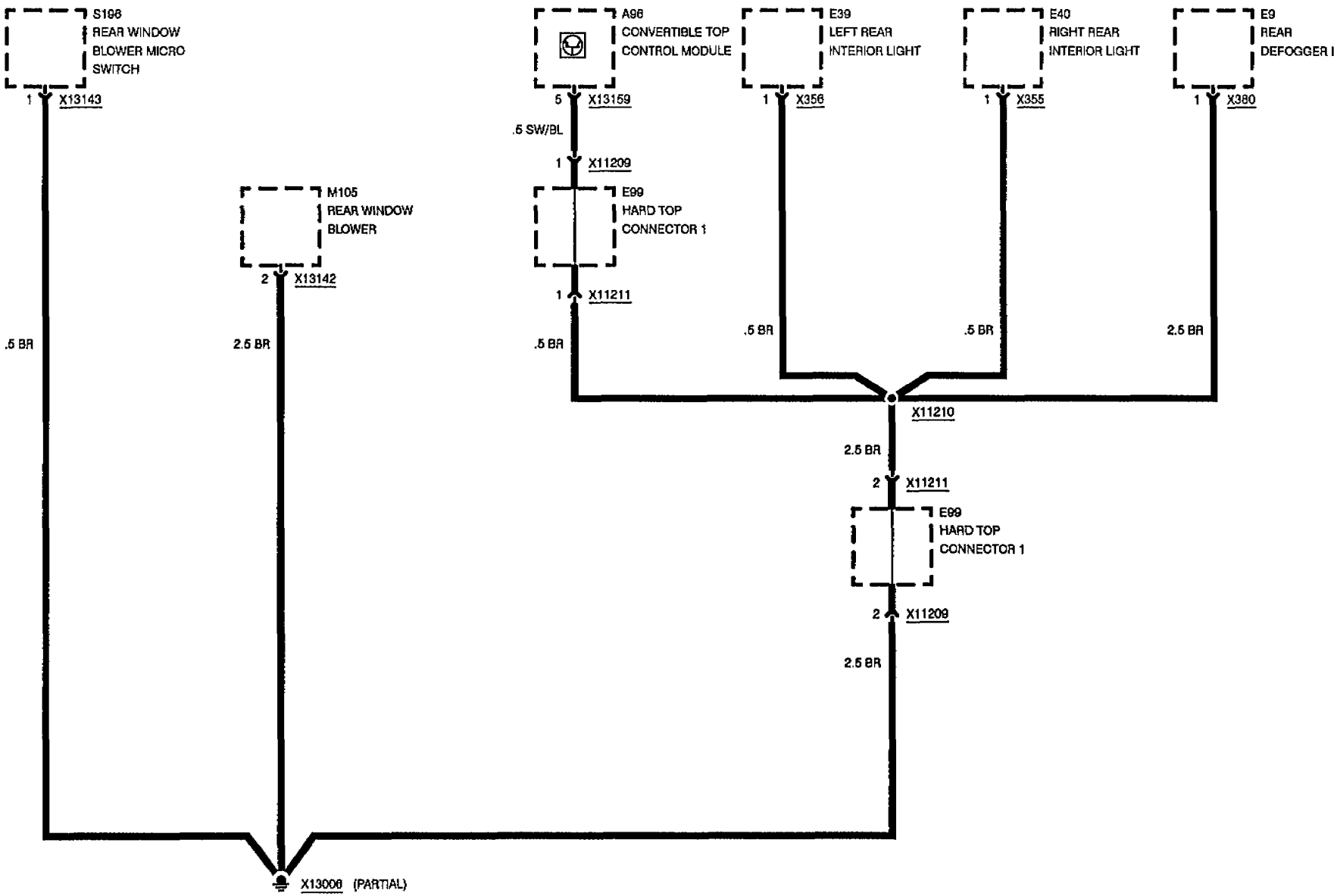
GROUND X13006



GROUND DISTRIBUTION

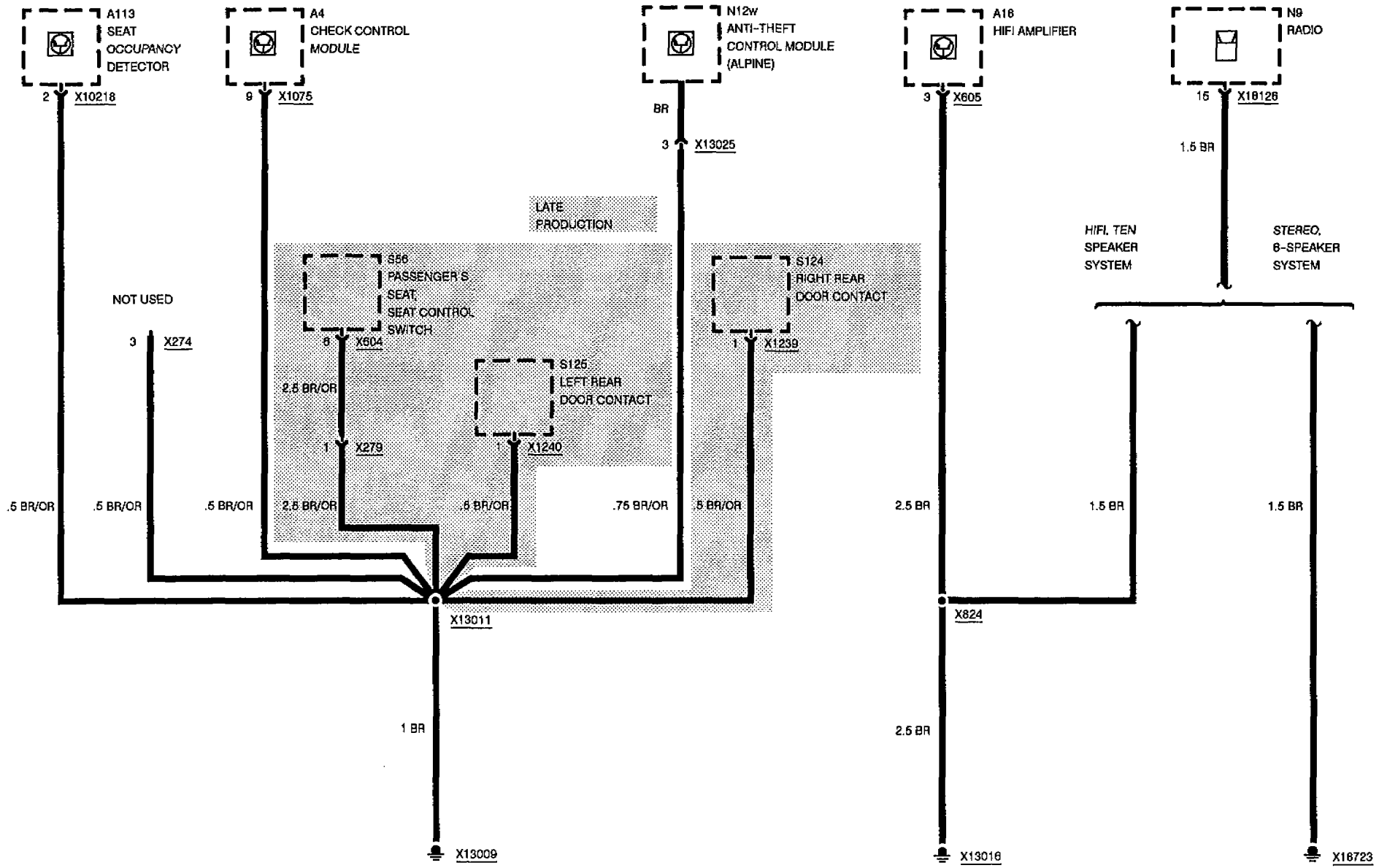
GROUND X13006

CONVERTIBLE



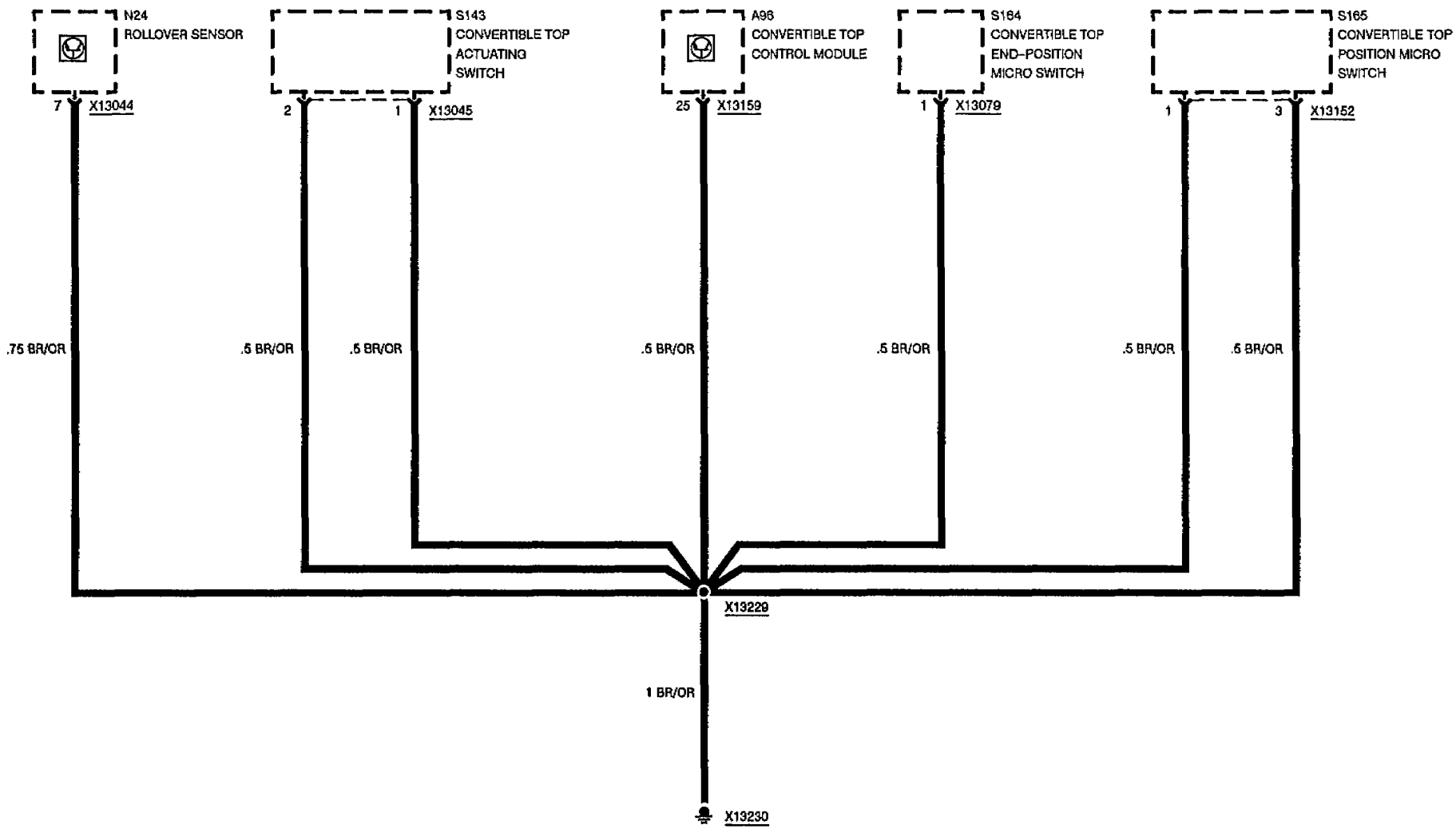
GROUND DISTRIBUTION

GROUNDS X13009, X13016, AND X18723



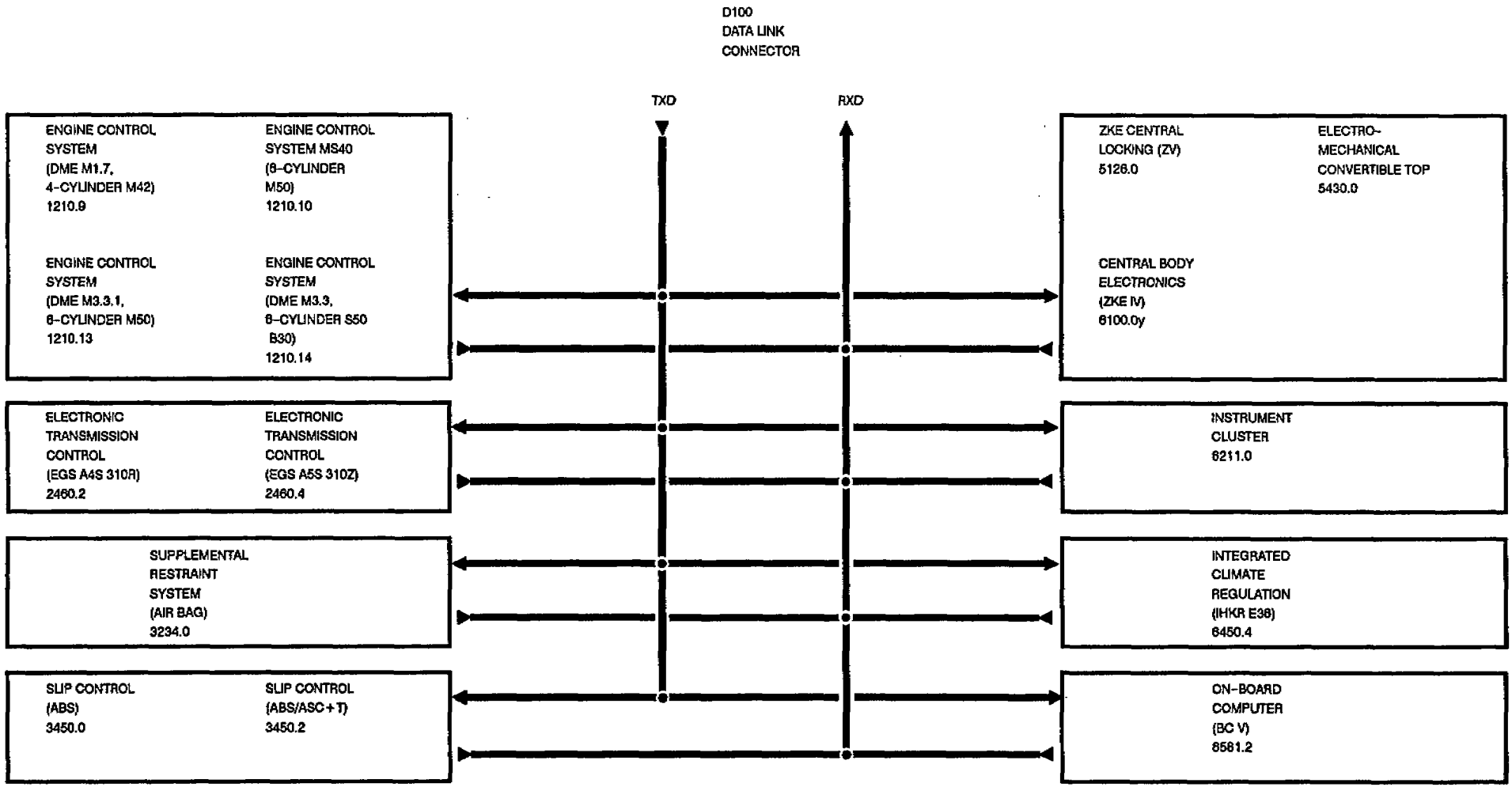
GROUND DISTRIBUTION

GROUND X13230

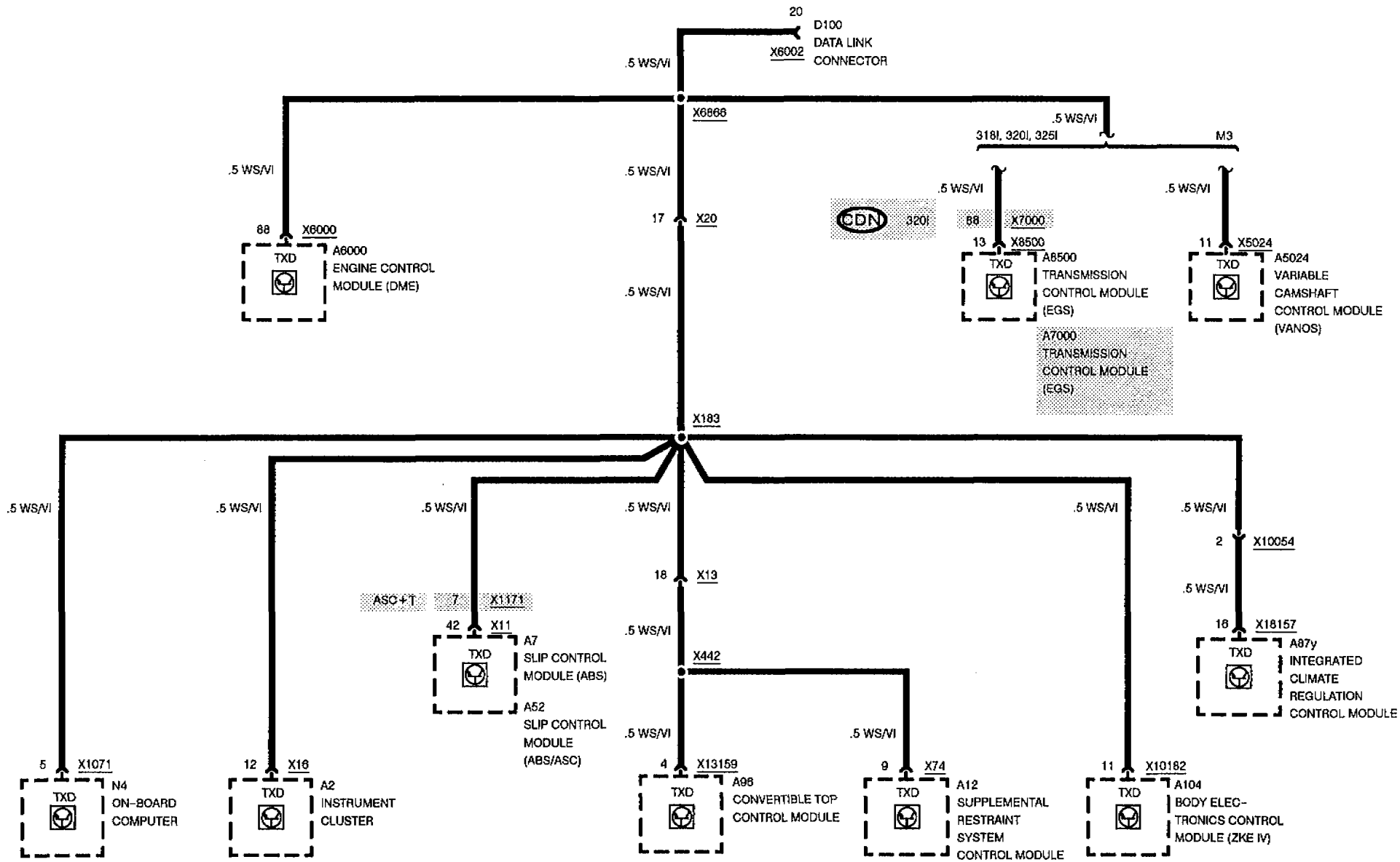


DATA LINK

BLOCK DIAGRAM

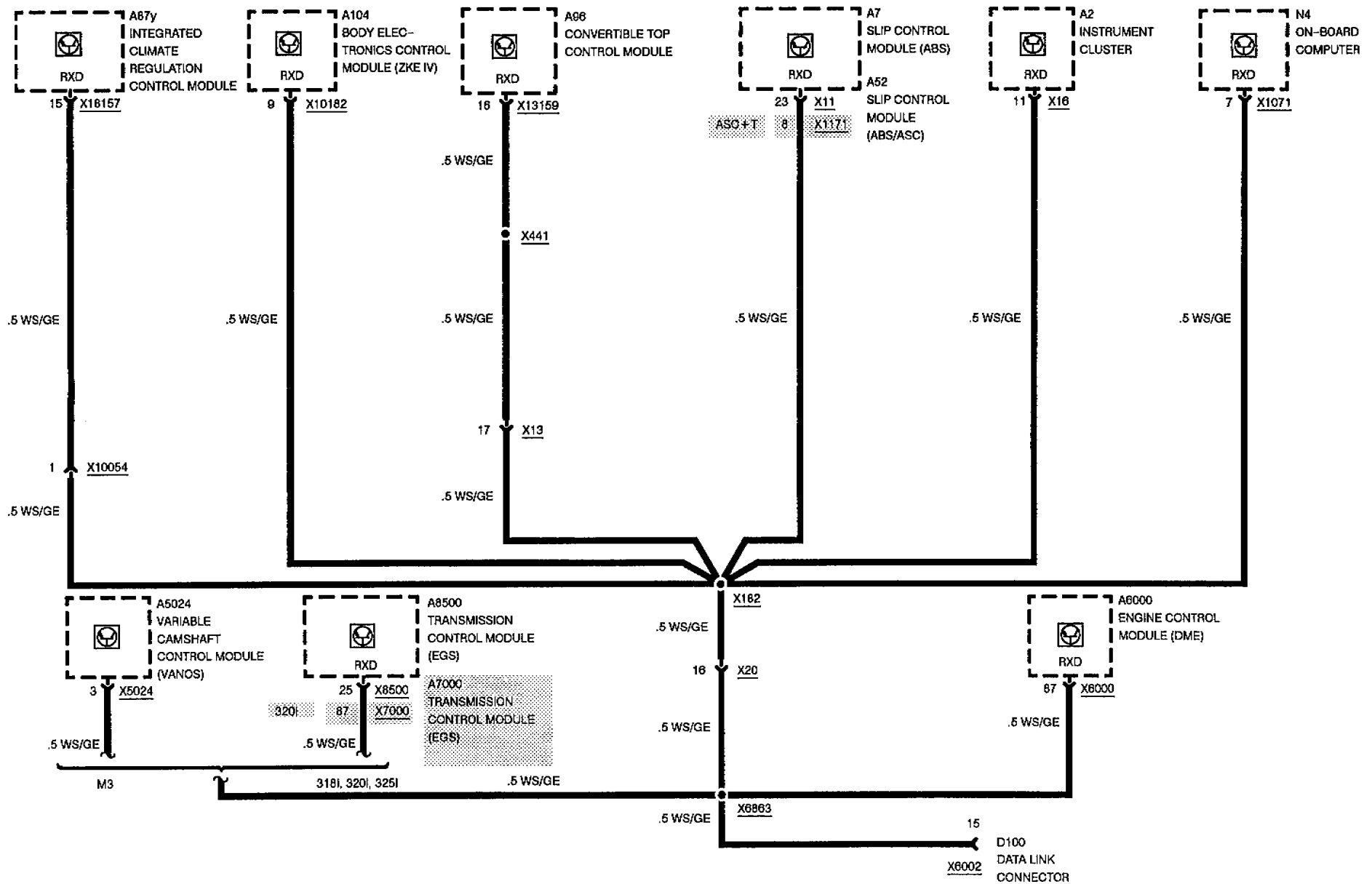


DATA LINK
TXD, PIN 20



DATA LINK

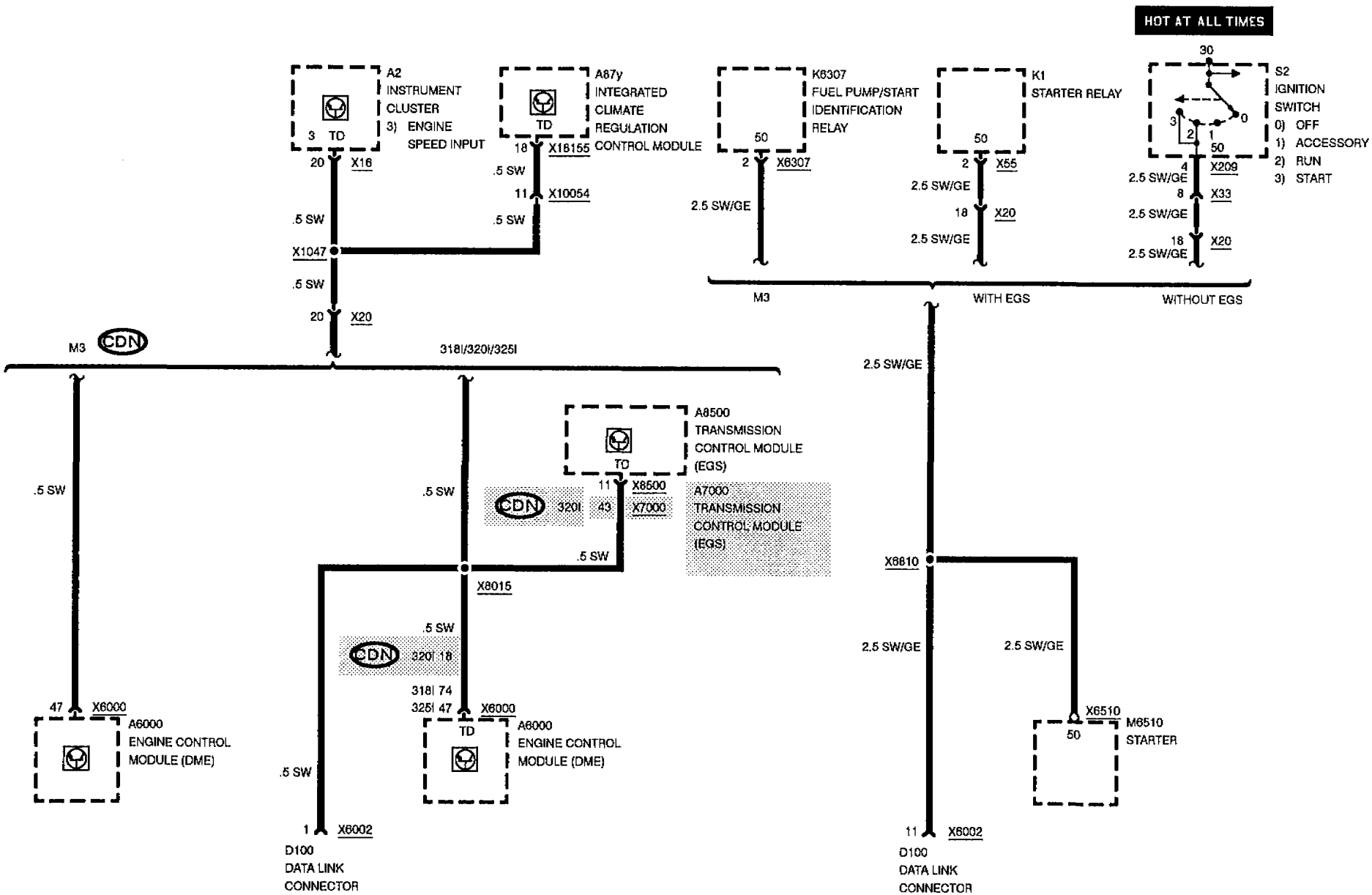
RXD, PIN 15



DATA LINK

DATA LINK CONNECTOR PINS 1 AND 11

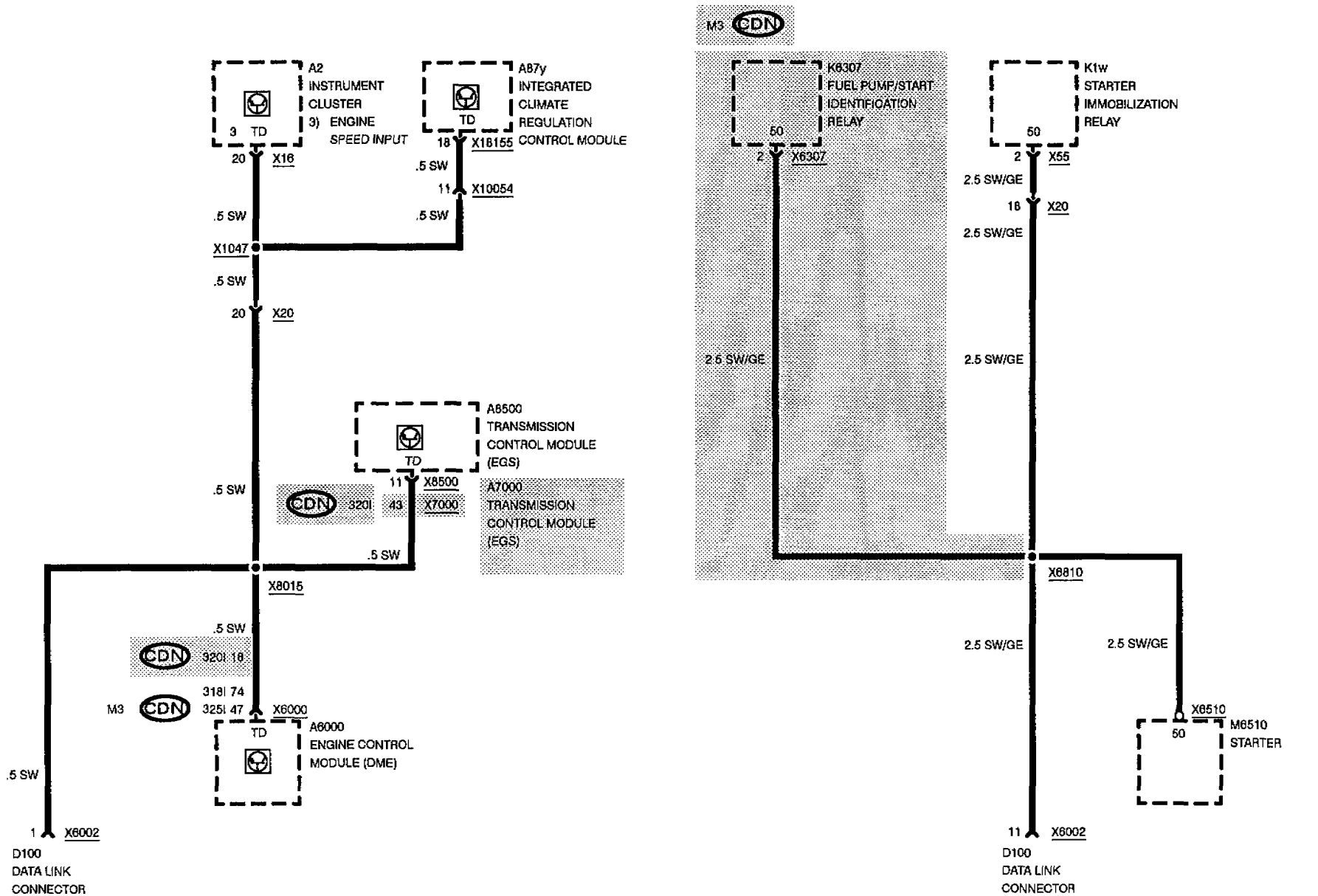
EARLY PRODUCTION



DATA LINK

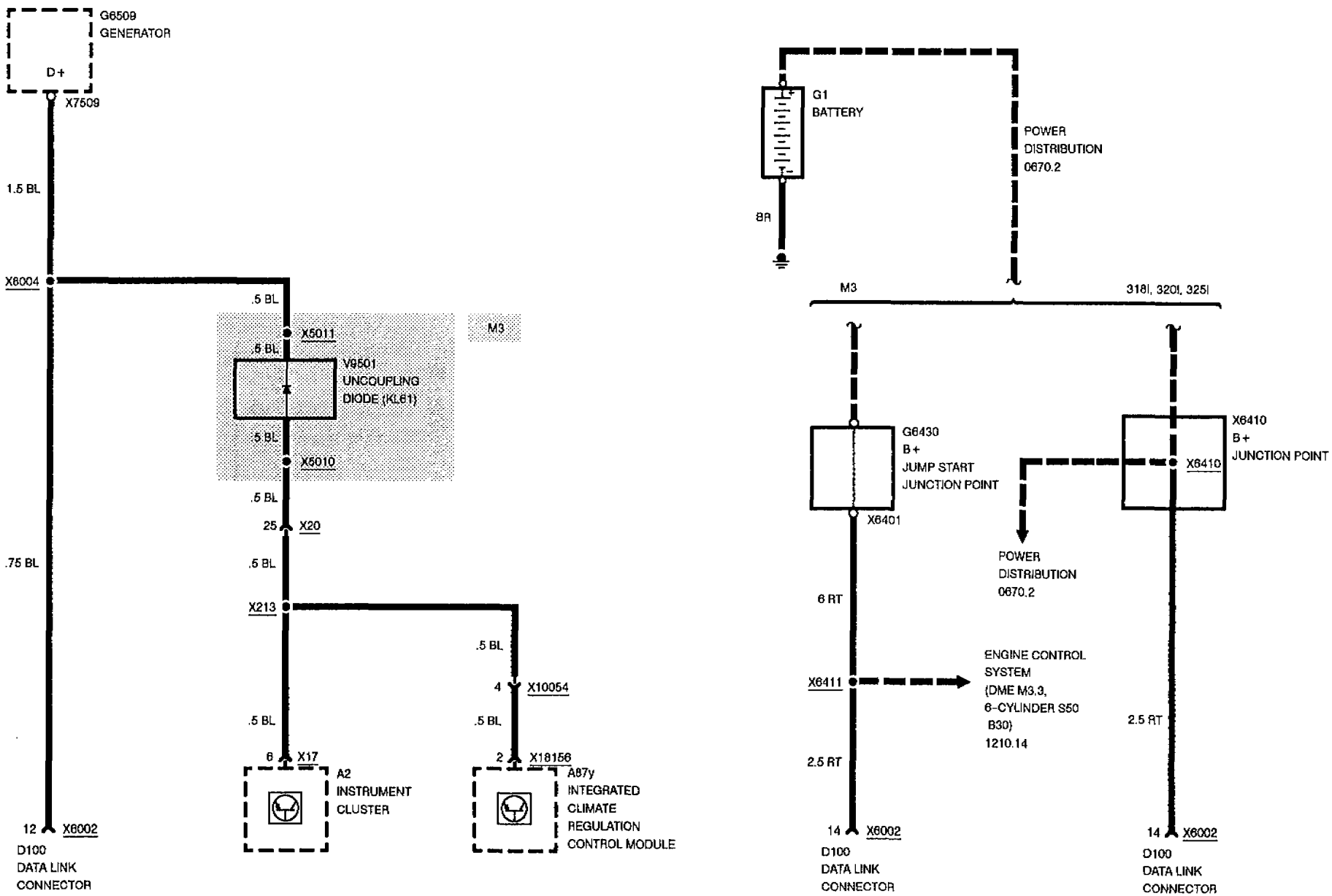
DATA LINK CONNECTOR PINS 1 AND 11

LATE PRODUCTION



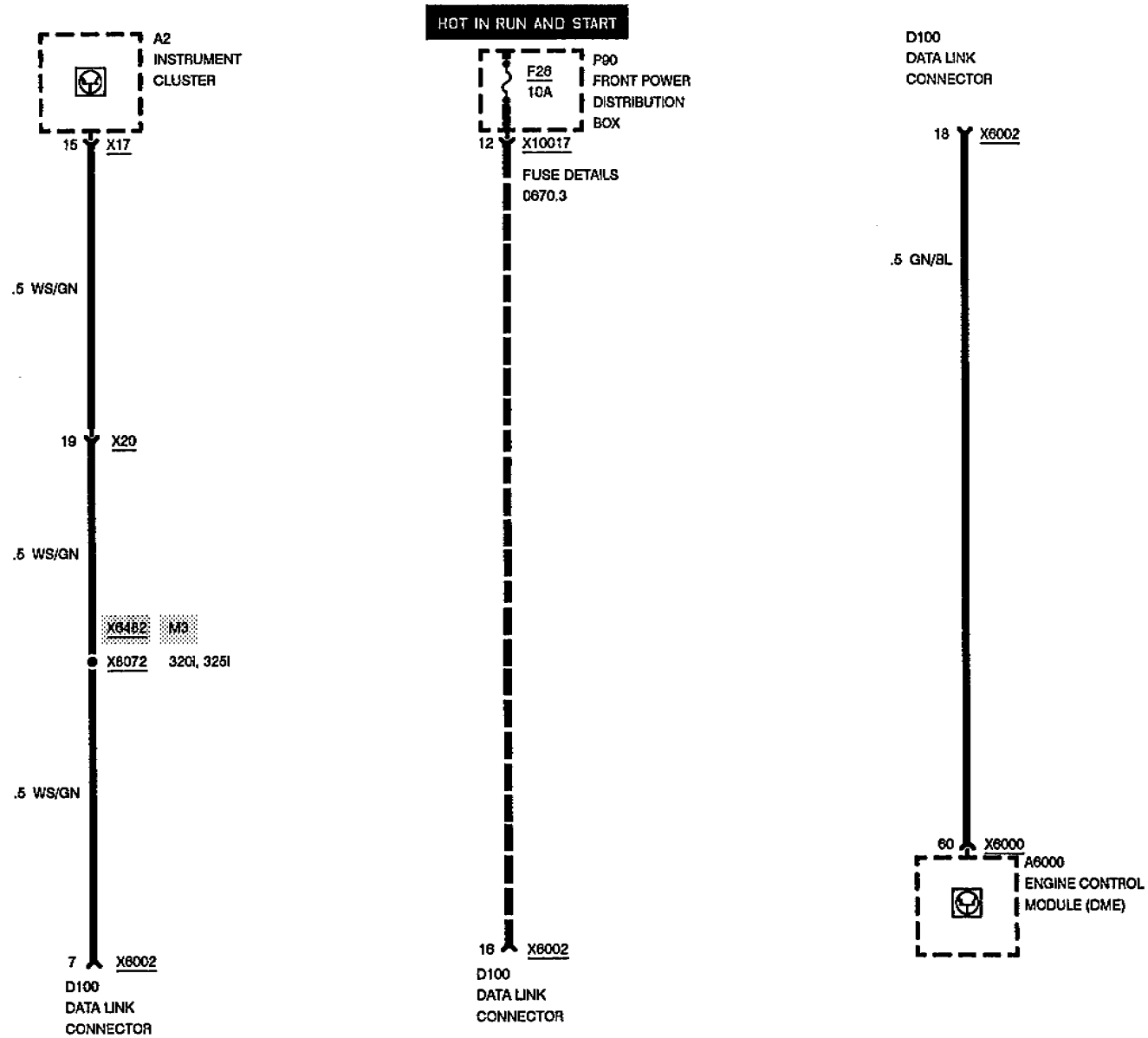
DATA LINK

DATA LINK CONNECTOR PINS 12 AND 14



DATA LINK

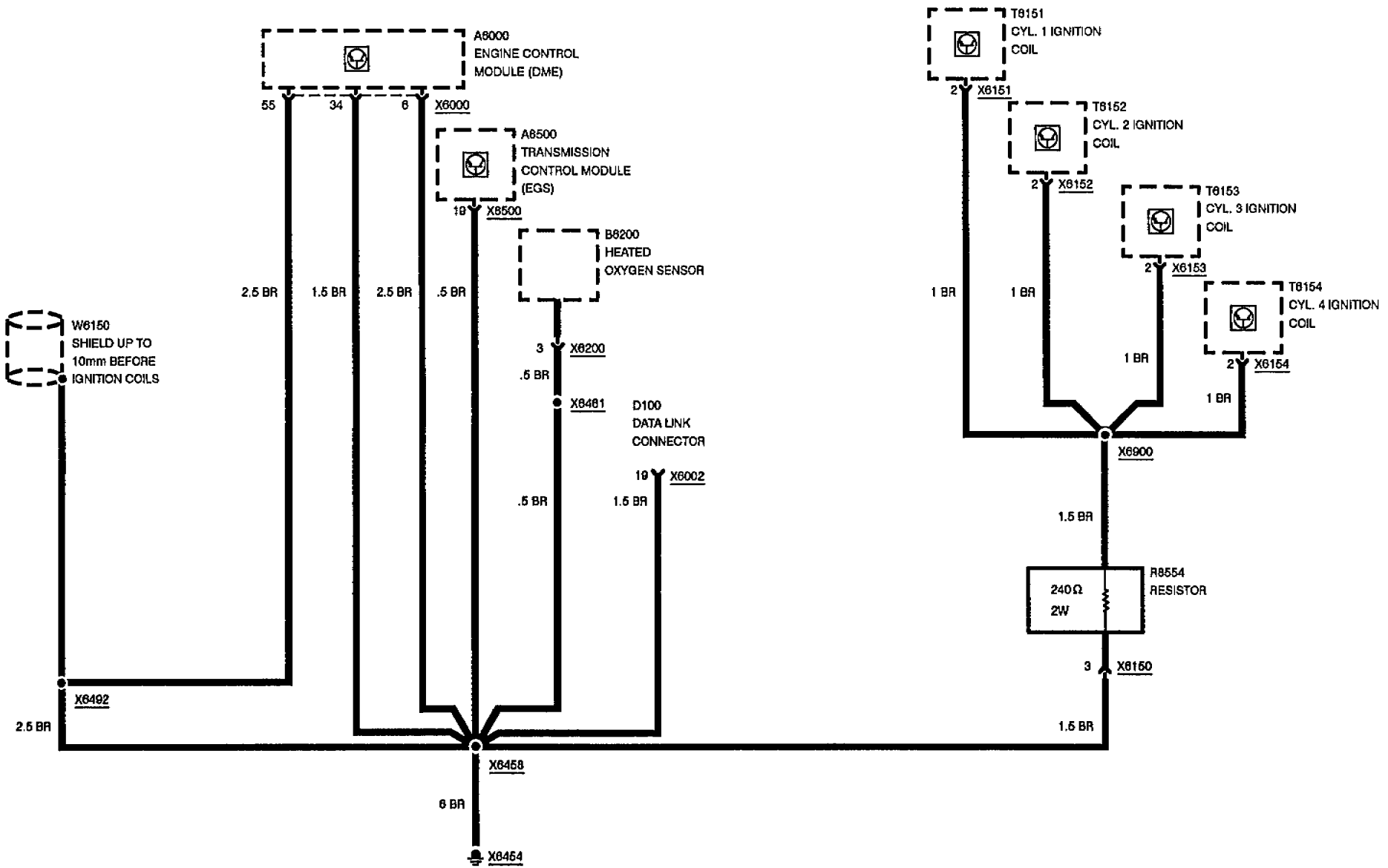
DATA LINK CONNECTOR PINS 7, 16, AND 18



DATA LINK

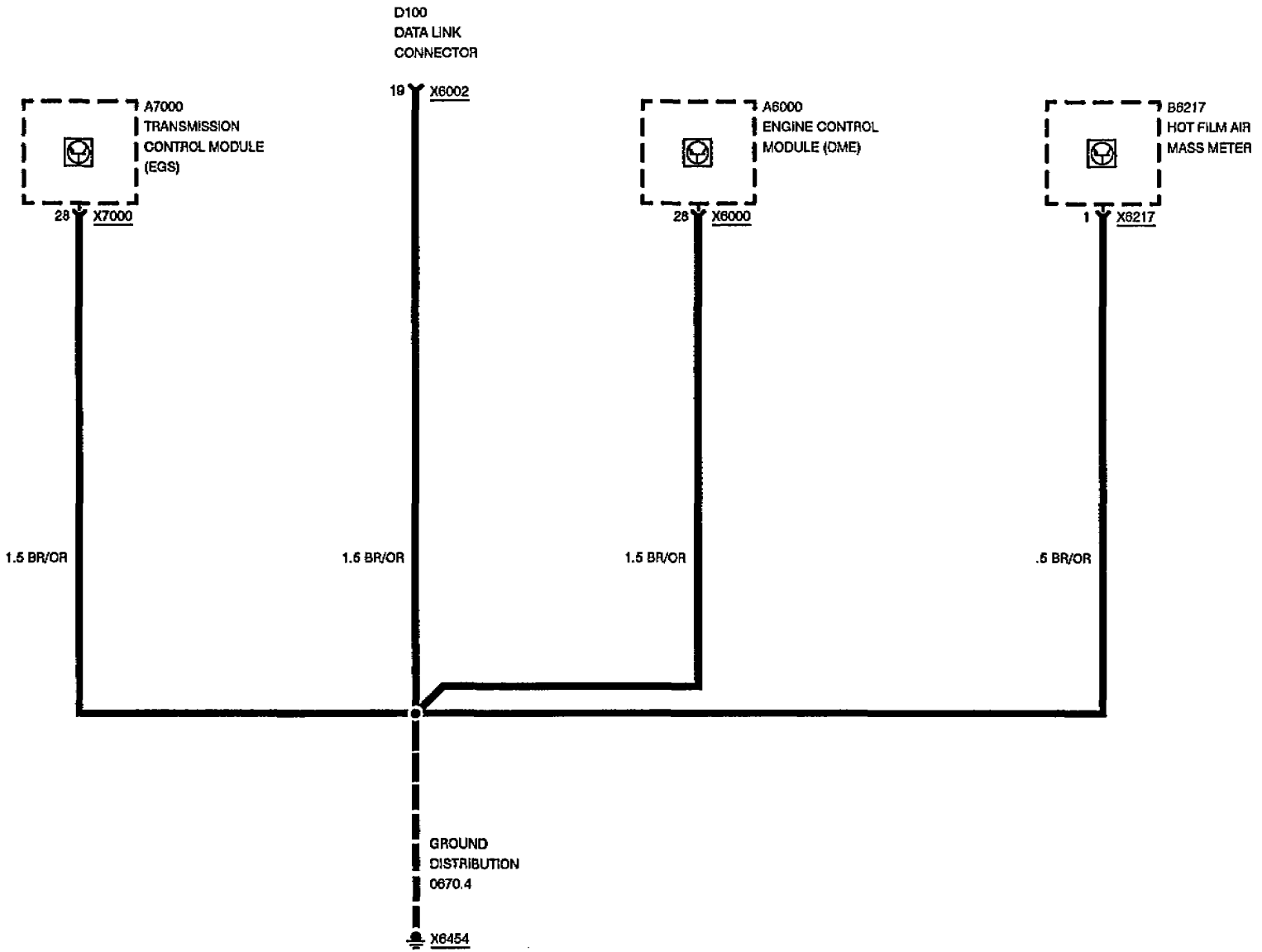
DATA LINK CONNECTOR PIN 19

318i



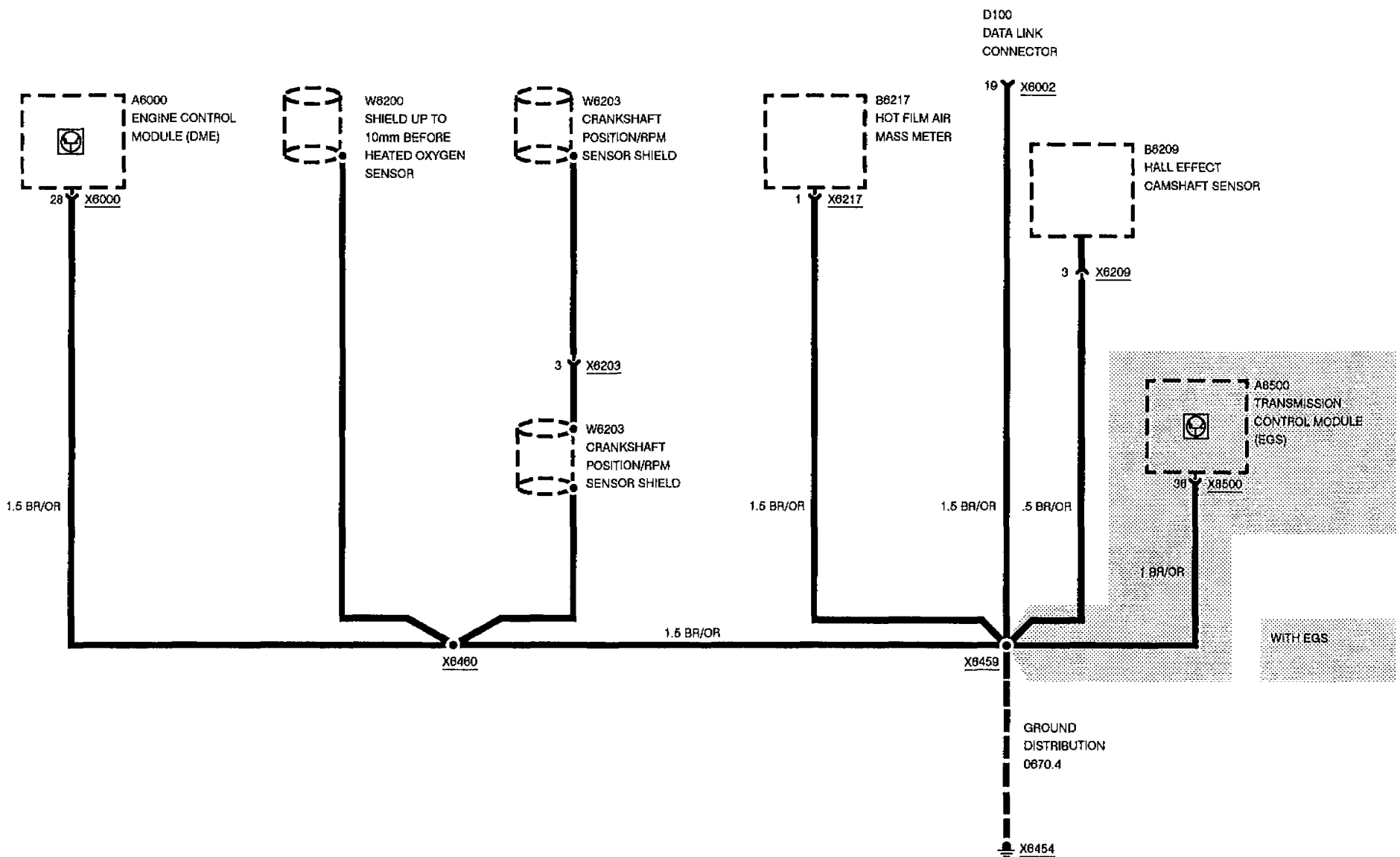
DATA LINK

DATA LINK CONNECTOR PIN 19

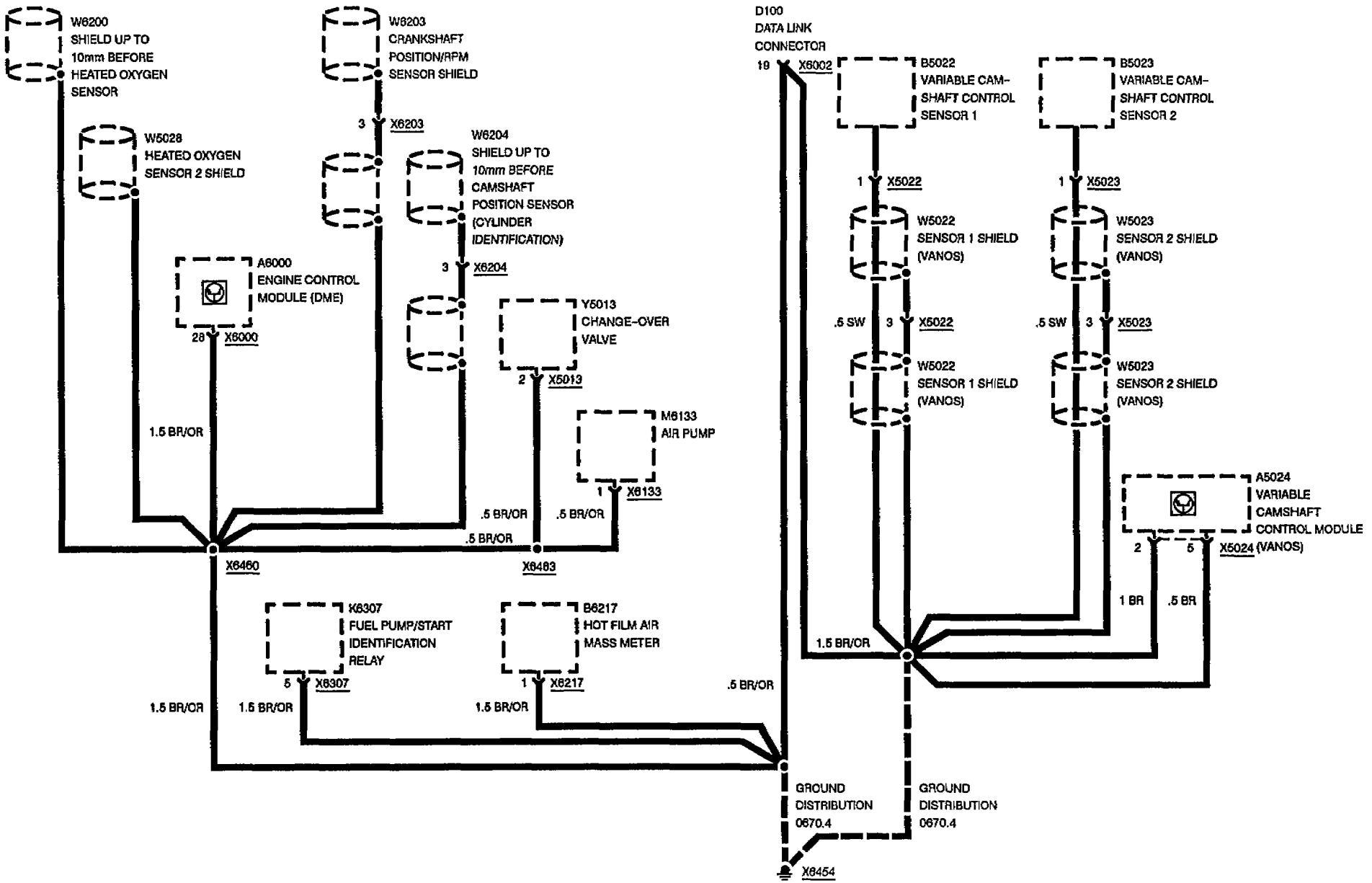


DATA LINK

DATA LINK CONNECTOR PIN 19

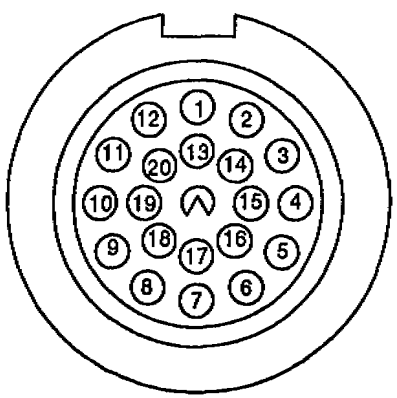


DATA LINK CONNECTOR PIN 19

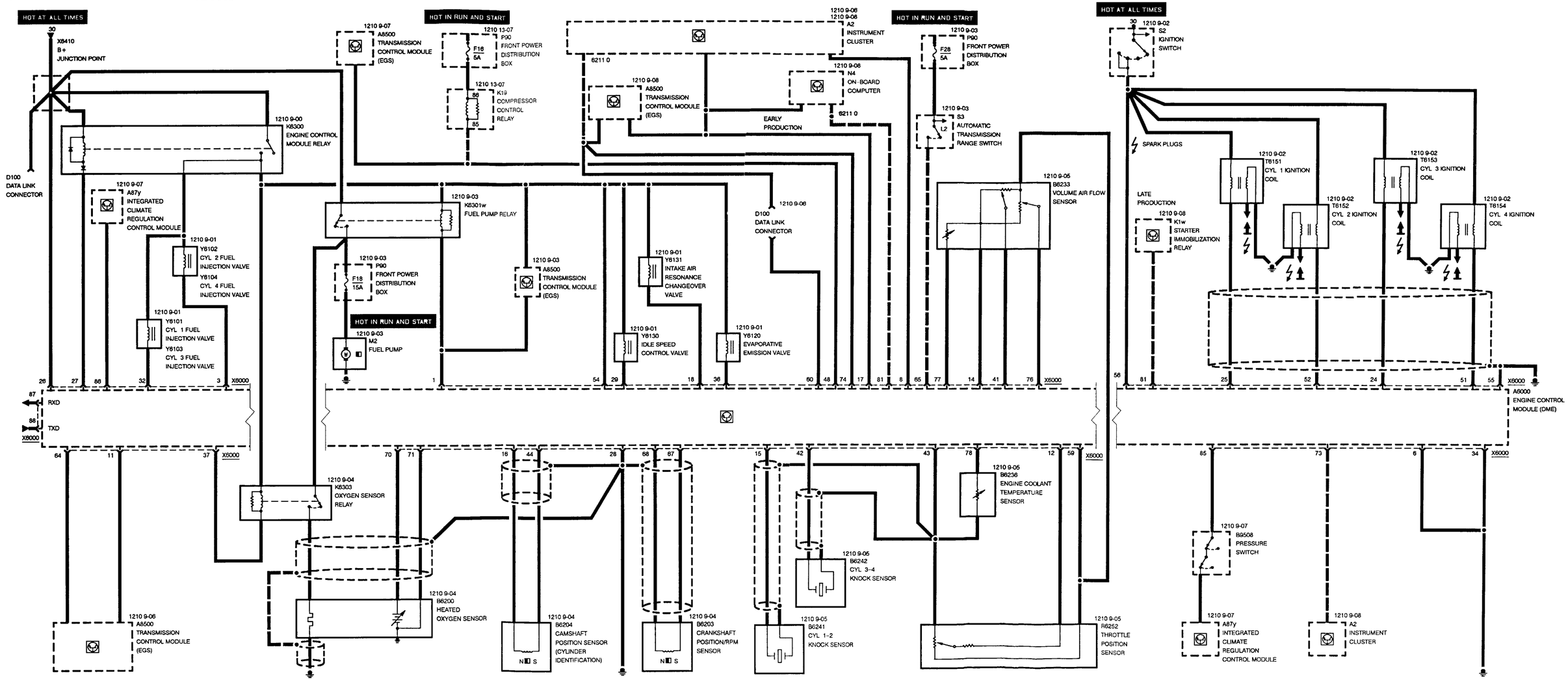


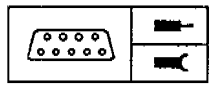
DATA LINK

DATA LINK CONNECTOR (X6002)



PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	–	MOTOR	SW
2	–	NOT OCCUPIED	
3	–	NOT OCCUPIED	
4	–	NOT OCCUPIED	
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	–	NOT OCCUPIED	
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI


HOT AT ALL TIMES
30
X8410
B+
JUNCTION POINT
D100
DATA LINK
CONNECTOR
1210 9-00
K8300
ENGINE CONTROL
MODULE RELAY
1210 9-07
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 9-01
Y8102
CYL 2 FUEL
INJECTION VALVE
Y8104
CYL 4 FUEL
INJECTION VALVE
1210 9-01
Y8101
CYL 1 FUEL
INJECTION VALVE
Y8103
CYL 3 FUEL
INJECTION VALVE
26
27
86
32
3
X6000
87
RXD
86
TXD
X8000
64
11
37
X6000
1210 9-06
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 9-07
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
HOT IN RUN AND START
1210 13-07
P90
FRONT POWER
DISTRIBUTION
BOX
F18
5A
1210 13-07
K19
COMPRESSOR
CONTROL
RELAY
86
85
1210 9-03
K8301w
FUEL PUMP RELAY
1210 9-03
P90
FRONT POWER
DISTRIBUTION
BOX
F18
15A
HOT IN RUN AND START
1210 9-03
M2
FUEL PUMP
1
1210 9-03
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 9-04
K8303
OXYGEN SENSOR
RELAY
70
71
1210 9-04
B6200
HEATED
OXYGEN SENSOR
1210 9-06
1210 9-06
A2
INSTRUMENT
CLUSTER
6211 0
1210 9-08
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 9-06
N4
ON-BOARD
COMPUTER
6211 0
EARLY
PRODUCTION
1210 9-06
D100
DATA LINK
CONNECTOR
54
29
18
36
60
48
74
17
81
8
1210 9-01
Y8131
INTAKE AIR
RESONANCE
CHANGEOVER
VALVE
1210 9-01
Y8130
IDLE SPEED
CONTROL VALVE
1210 9-01
Y8120
EVAPORATIVE
EMISSION VALVE
16
44
28
68
67
1210 9-04
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
N
S
1210 9-04
B6203
CRANKSHAFT
POSITION/RPM
SENSOR
N
S
HOT IN RUN AND START
1210 9-03
P90
FRONT POWER
DISTRIBUTION
BOX
F26
5A
1210 9-03
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L2
65
77
14
41
76
X6000
1210 9-05
B6233
VOLUME AIR FLOW
SENSOR
15
42
43
78
12
59
X6000
1210 9-05
B6242
CYL 3–4
KNOCK SENSOR
1210 9-05
B6241
CYL 1–2
KNOCK SENSOR
1210 9-05
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
1210 9-05
R6252
THROTTLE
POSITION
SENSOR
HOT AT ALL TIMES
30
1210 9-02
S2
IGNITION
SWITCH
SPARK PLUGS
LATE
PRODUCTION
1210 9-08
K1w
STARTER
IMMOBILIZATION
RELAY
1210 9-02
T6151
CYL 1 IGNITION
COIL
1210 9-02
T6152
CYL 2 IGNITION
COIL
1210 9-02
T6153
CYL 3 IGNITION
COIL
1210 9-02
T6154
CYL 4 IGNITION
COIL
56
81
25
52
24
51
55
X6000
A6000
ENGINE CONTROL
MODULE (DME)
85
73
6
34
X6000
1210 9-07
B9508
PRESSURE
SWITCH
1210 9-07
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 9-08
A2
INSTRUMENT
CLUSTER

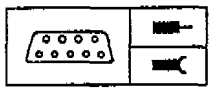


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2		Not used	
3	A	Cyl. 2 and cyl. 4 fuel injection valve control	Cyl. 2 and cyl. 4 fuel injection valves
4		Not used	
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	DKV potentiomenter signal	Transmission control module (EGS)
12	E	Throttle position	Throttle position sensor
13		Not used	
14	E	Volume air flow sensor	Volume air flow sensor
15	E	Cyl. 1-2 knock sensor	Cyl. 1-2 knock sensor
16	E	Camshaft position sensor (cylinder identification)	Camshaft position sensor (cylinder identification)
17	A	Ti-measurement signal (fuel consumption)	Instrument cluster
18	A	Intake air resonance changeover valve control	Intake air resonance changeover valve
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

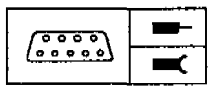
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30		Not used	
31		Not used	
32	A	Cyl. 1 and cyl. 3 fuel injection valve control	Cyl. 1 and cyl. 3 fuel injection valves
33		Not used	
34	M	Ground, remaining output stages (except for ingnition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
38		Not used	
39		Not used	
40		Not used	
41	E	Volume air flow sensor	Volume air flow sensor
42	E	Cyl. 3-4 knock sensor	Cyl. 3-4 knock sensor
43	M	Ground for sensors	Engine coolant temperature sensor, cyl. 1-2 knock sensor, cyl. 3-4 knock sensor, and throttle position sensor
44	E	Camshaft position sensor (cylinder identification)	Camshaft position sensor (cylinder identification)
45		Not used	
46		Not used	
47		Not used	
48	A	A/C compressor cut-out	Compressor control relay, terminal 85
49		Not used	
50		Not used	
51	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
52	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57		Not used	

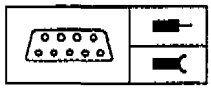
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
58		Not used	
59	A	5V component supply	Throttle position sensor and volume air flow sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	Ignition timing intervention	Transmission control module (EGS)
65	E	Drive range P/N	Automatic transmission range switch
66		Not used	
67	E	Crankshaft position/RPM sensor	Crankshaft position/RPM sensor
68	E	Crankshaft position/RPM sensor	Crankshaft position/RPM sensor
69		Not used	
70	E	Oxygen sensor signal	Heated oxygen sensor
71	M	Oxygen sensor signal ground	Heated oxygen sensor
72		Not used	
73	E	Vehicle speed signal	Instrument cluster
74	A	Crankshaft RPM speed signal TD	Instrument cluster
75		Not used	
76	E	Volume air flow sensor	Volume air flow sensor
77	E	Volume air flow sensor	Volume air flow sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive-away protection signal (code)	On-board computer/Body electronics control module (early production)
81	E	Drive-away protection signal (code)	Starter immobilization relay (late production)
82		Not used	
83		Not used	
84		Not used	
85	E	A/C pressure	Pressure switch
86	E	A/C switch	Integrated climate regulation control module

E = Input, A = Output, M = Ground



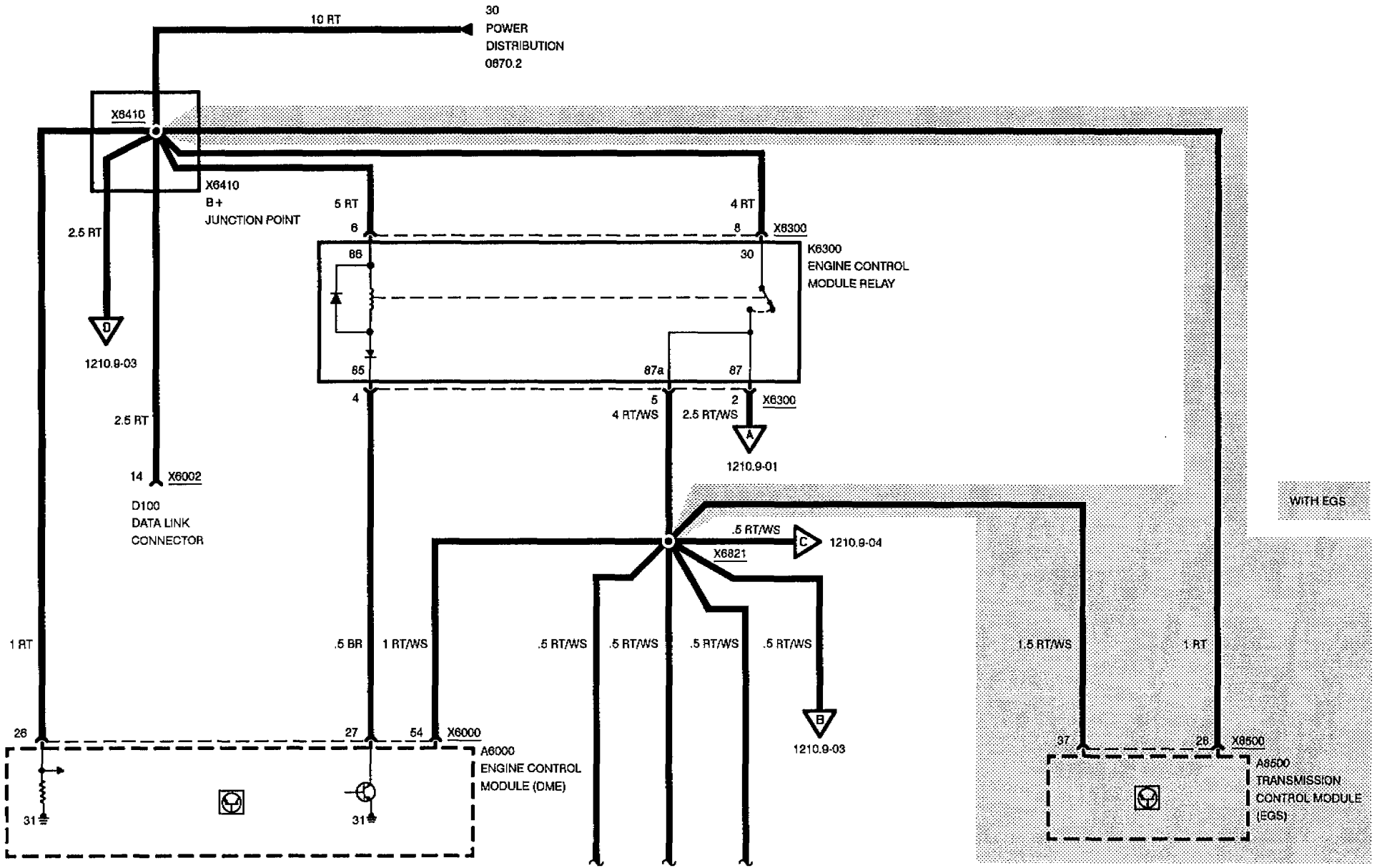
Pin Assignments

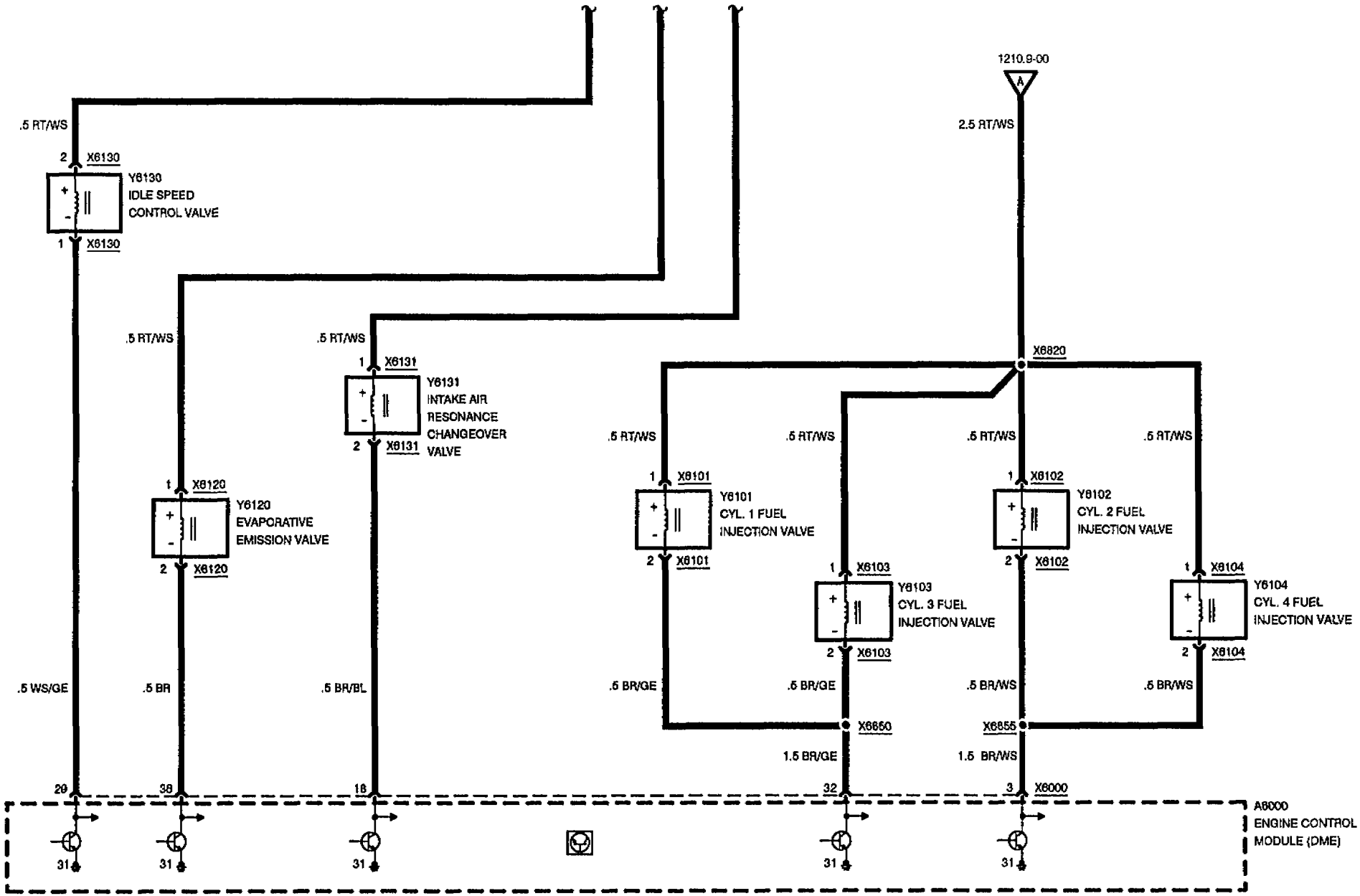
Pin	Type	Description/Function	Connection
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

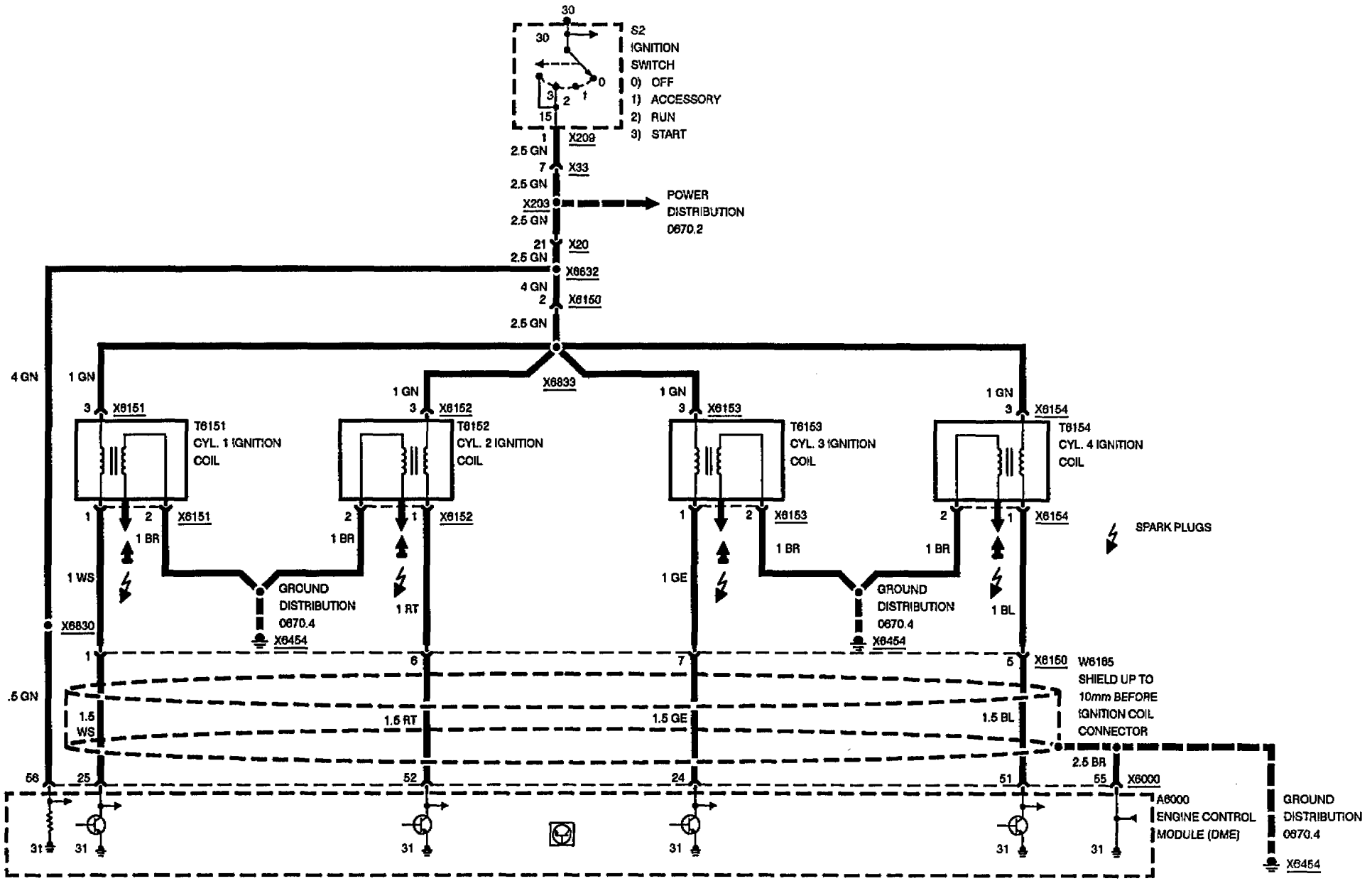
POWER, FUEL INJECTION VALVES




1210.9-00
A
2.5 RT/WS
X6820
.5 RT/WS
2 X6130
Y6130
IDLE SPEED
CONTROL VALVE
1 X6130
.5 RT/WS
1 X6131
Y6131
INTAKE AIR
RESONANCE
CHANGEOVER
VALVE
2 X6131
.5 RT/WS
1 X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2 X6120
.5 RT/WS
1 X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2 X6101
.5 RT/WS
1 X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2 X6103
.5 RT/WS
1 X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2 X6102
.5 RT/WS
1 X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
2 X6104
.5 WS/GE
.5 BR
.5 BR/BL
.5 BR/GE
.5 BR/GE
.5 BR/WS
.5 BR/WS
X6650
X6655
1.5 BR/GE
1.5 BR/WS
29
38
18
32
3
X6000
31
31
31
31
31
A6000
ENGINE CONTROL
MODULE (DME)

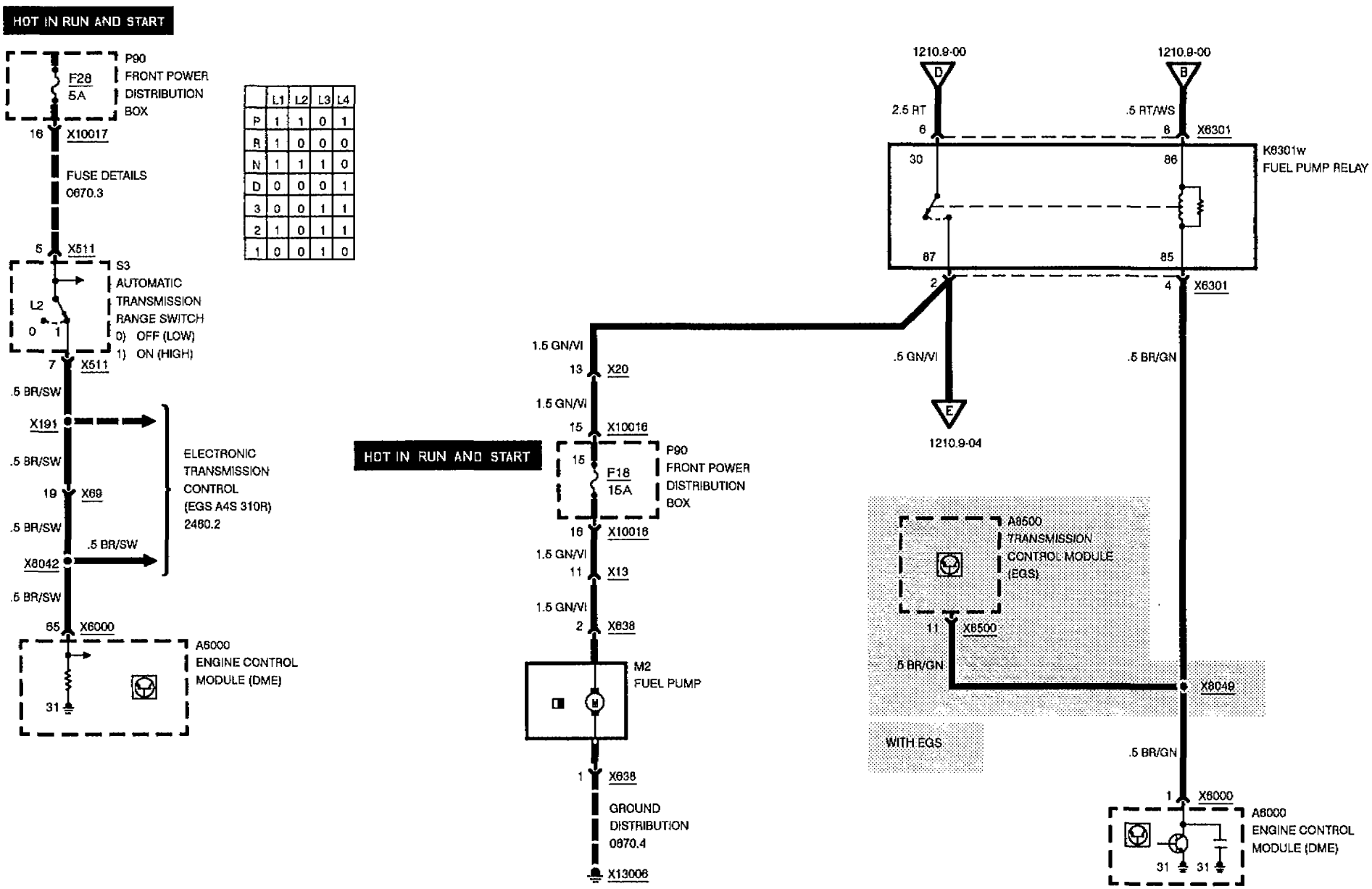
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

IGNITION COILS



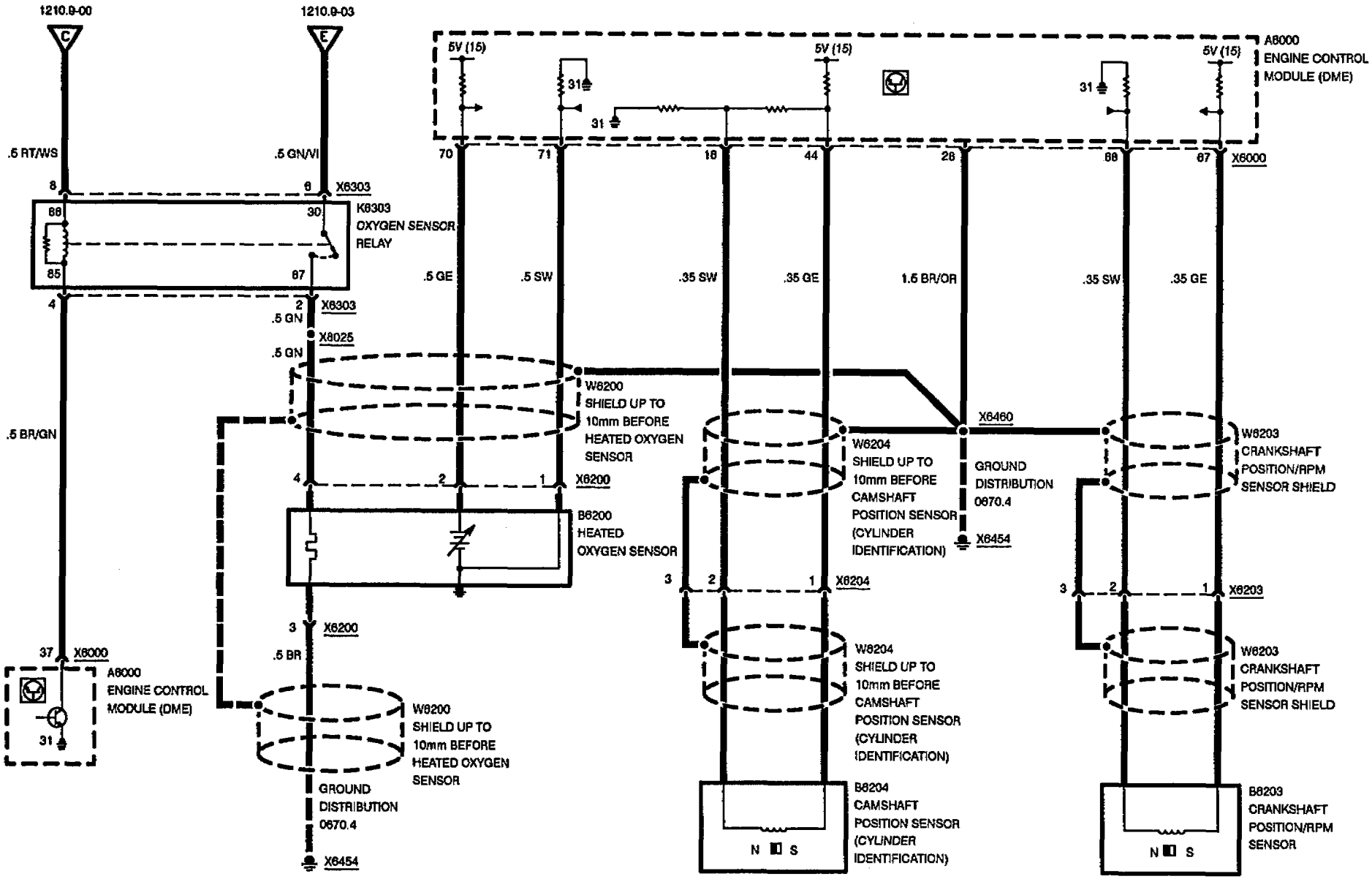
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

FUEL PUMP

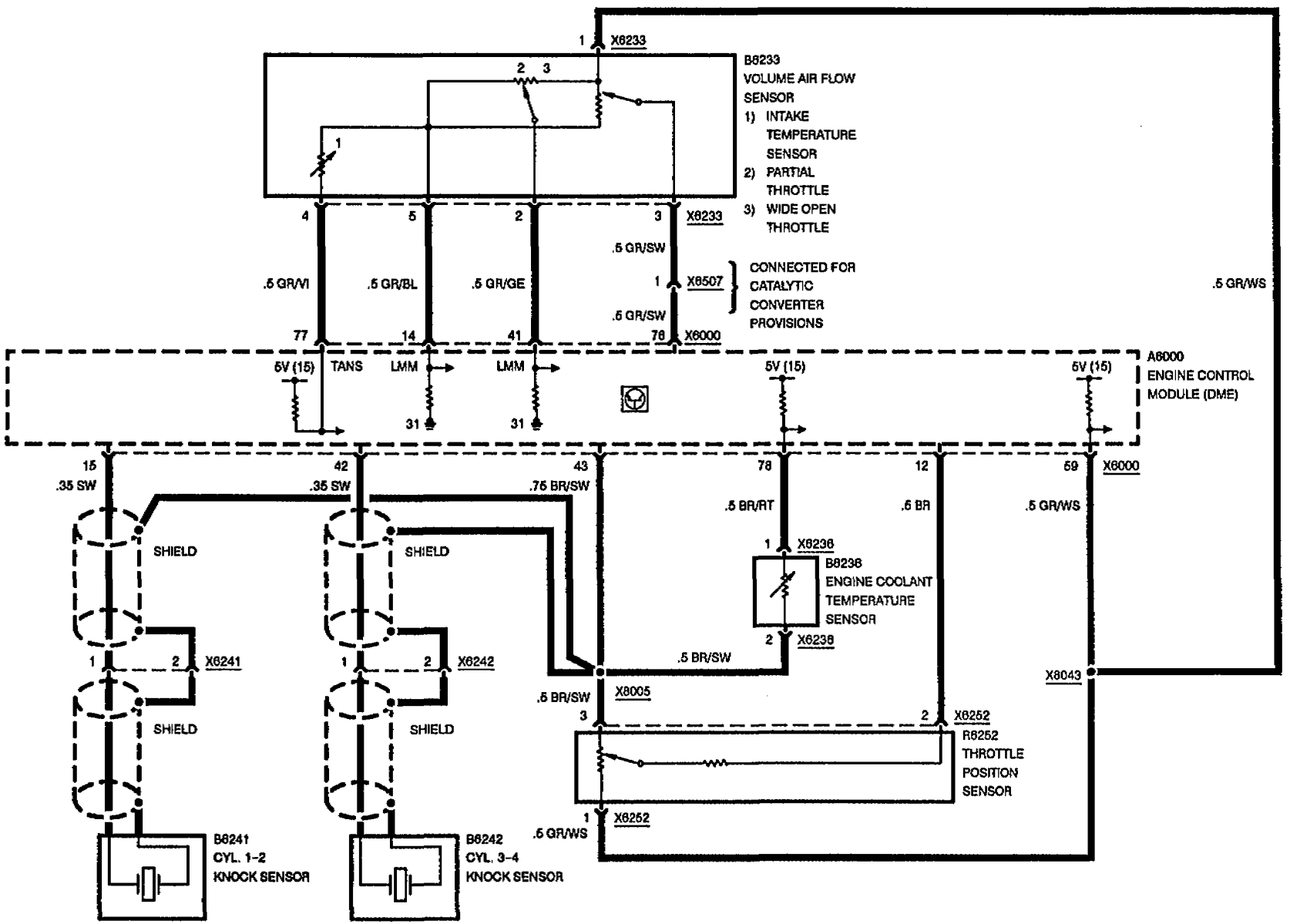


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

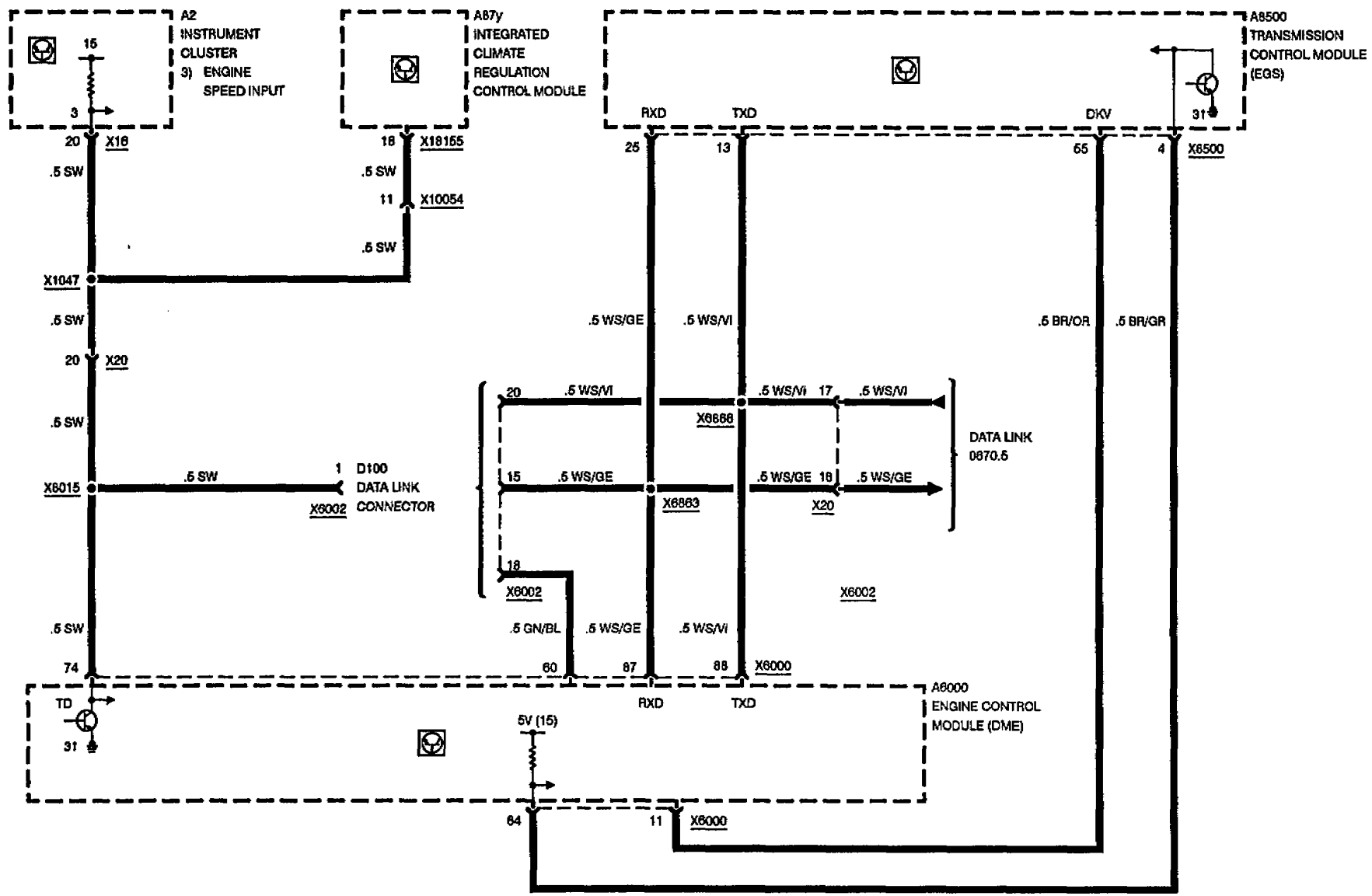


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

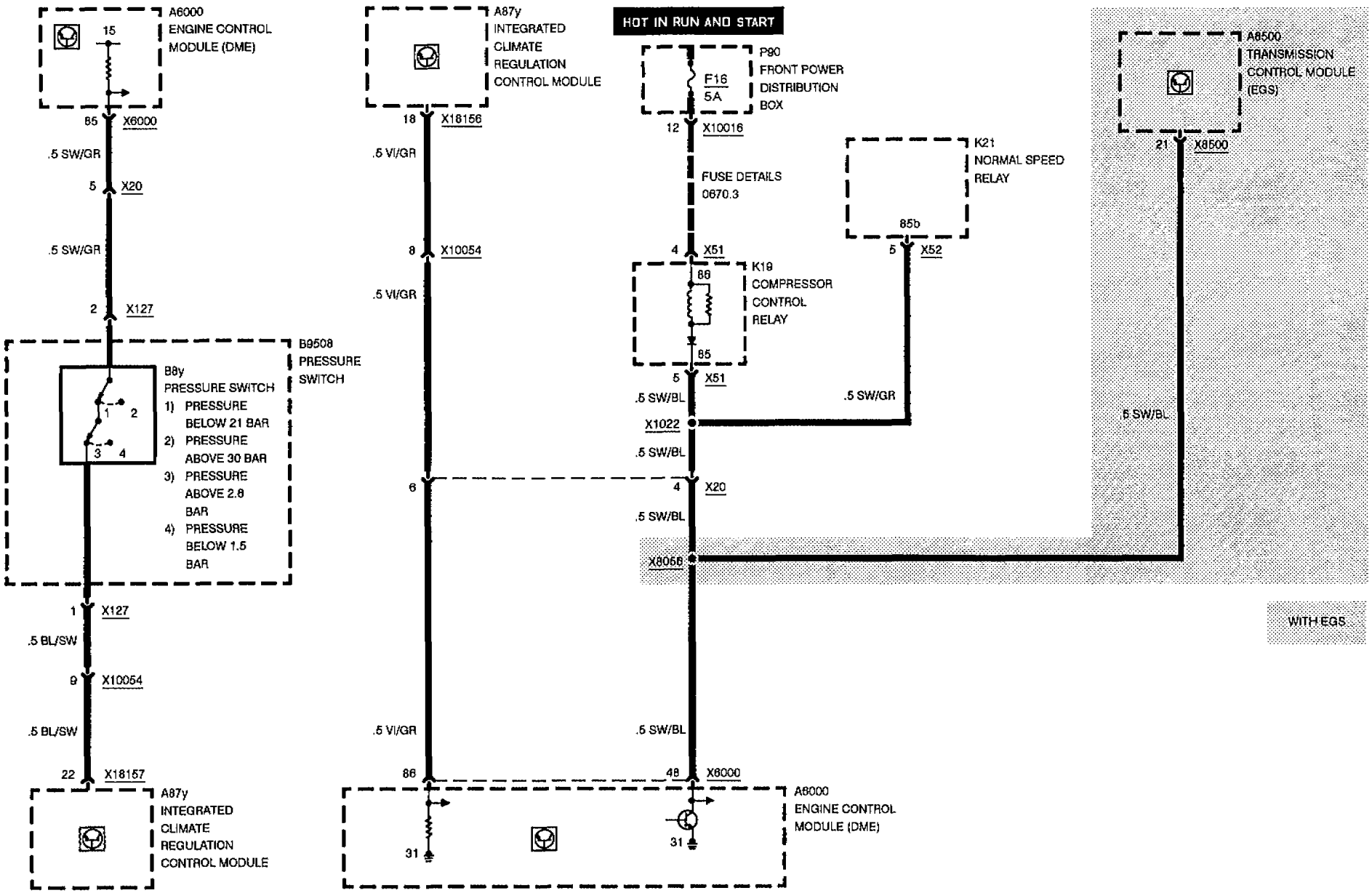


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

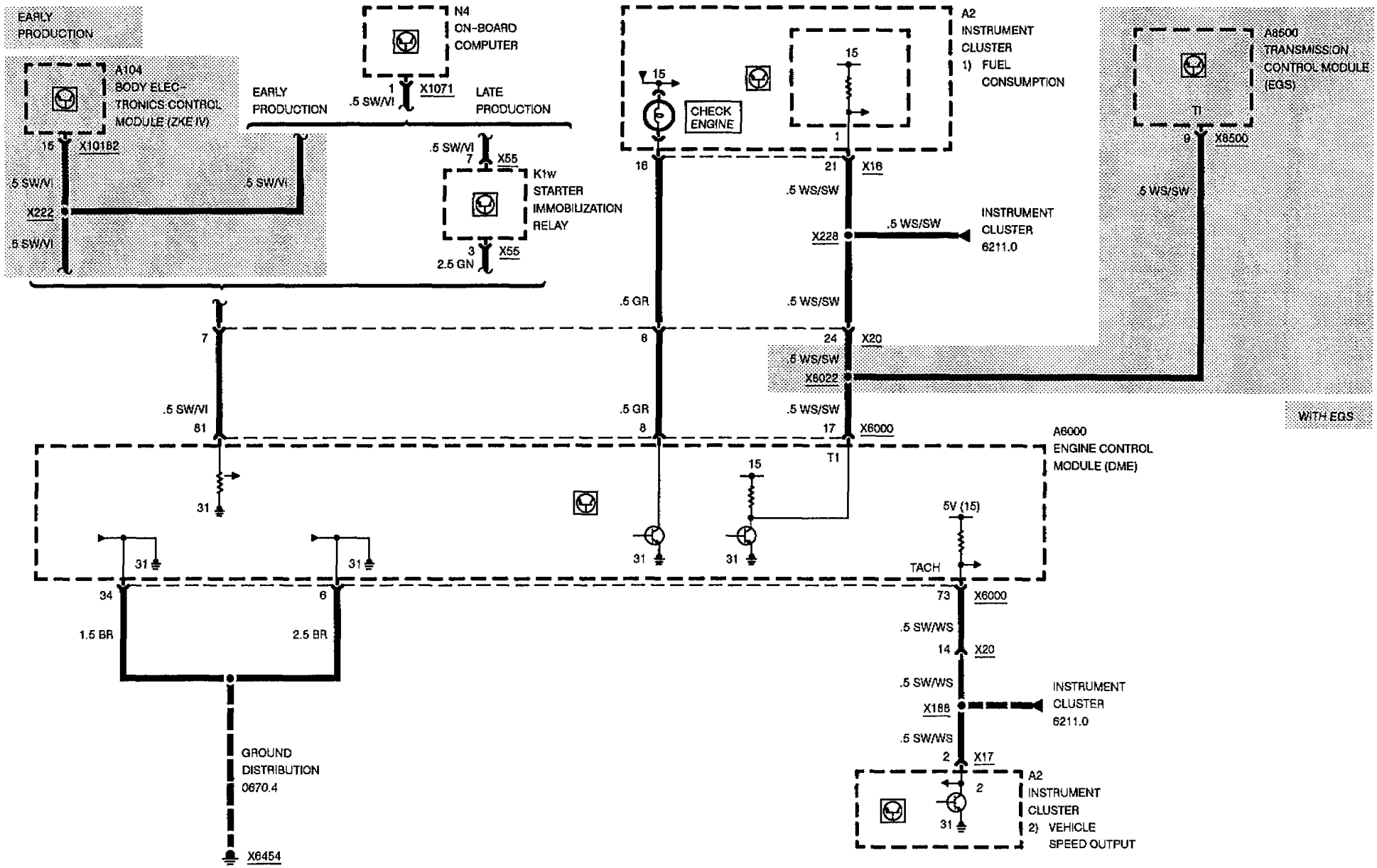
DATA LINK

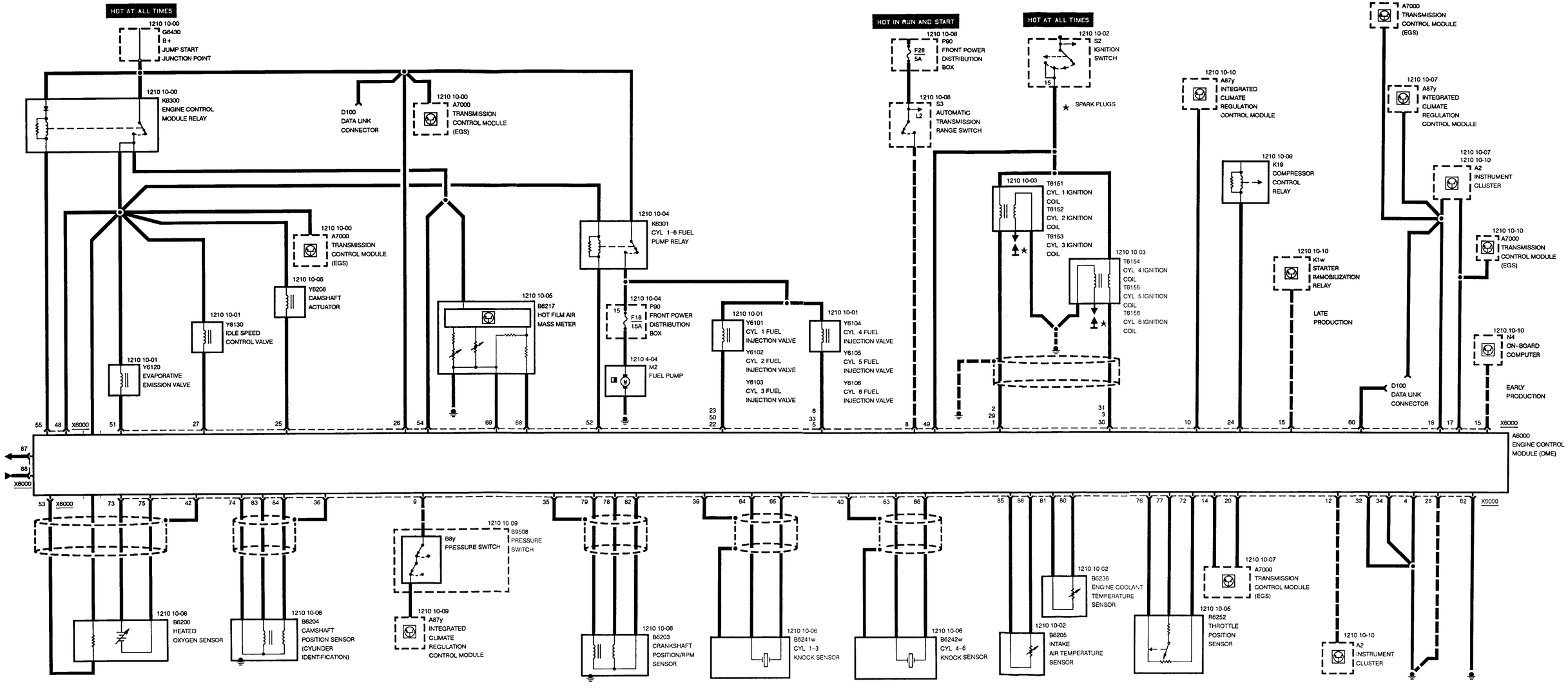


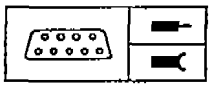
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)




HOT AT ALL TIMES
1210 10-00
G6430
B+
JUMP START
JUNCTION POINT
1210 10-00
K6300
ENGINE CONTROL
MODULE RELAY
D100
DATA LINK
CONNECTOR
1210 10-00
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
1210 10-00
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
1210 10-05
Y6208
CAMSHAFT
ACTUATOR
1210 10-01
Y6130
IDLE SPEED
CONTROL VALVE
1210 10-01
Y6120
EVAPORATIVE
EMISSION VALVE
1210 10-04
K6301
CYL 1-6 FUEL
PUMP RELAY
1210 10-05
B6217
HOT FILM AIR
MASS METER
1210 10-04
P90
FRONT POWER
DISTRIBUTION
BOX
F18
15A
1210 4-04
M2
FUEL PUMP
HOT IN RUN AND START
1210 10-08
P90
FRONT POWER
DISTRIBUTION
BOX
F26
5A
1210 10-08
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
1210 10-01
Y6101
CYL 1 FUEL
INJECTION VALVE
Y6102
CYL 2 FUEL
INJECTION VALVE
Y6103
CYL 3 FUEL
INJECTION VALVE
1210 10-01
Y6104
CYL 4 FUEL
INJECTION VALVE
Y6105
CYL 5 FUEL
INJECTION VALVE
Y6106
CYL 6 FUEL
INJECTION VALVE
HOT AT ALL TIMES
1210 10-02
S2
IGNITION
SWITCH
SPARK PLUGS
1210 10-03
T6151
CYL 1 IGNITION
COIL
T6152
CYL 2 IGNITION
COIL
T6153
CYL 3 IGNITION
COIL
1210 10 03
T6154
CYL 4 IGNITION
COIL
T6155
CYL 5 IGNITION
COIL
T6156
CYL 6 IGNITION
COIL
1210 10-10
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 10-09
K19
COMPRESSOR
CONTROL
RELAY
1210 10-10
K1w
STARTER
IMMOBILIZATION
RELAY
LATE
PRODUCTION
1210 10-07
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
1210 10-07
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 10-07
1210 10-10
A2
INSTRUMENT
CLUSTER
1210 10-10
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
1210.10-10
N4
ON-BOARD
COMPUTER
EARLY
PRODUCTION
D100
DATA LINK
CONNECTOR
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210 10-08
B6200
HEATED
OXYGEN SENSOR
1210 10-06
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
1210 10 09
B9508
PRESSURE
SWITCH
B8y
PRESSURE SWITCH
1210 10-09
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 10-06
B6203
CRANKSHAFT
POSITION/RPM
SENSOR
1210 10-06
B6241w
CYL 1-3
KNOCK SENSOR
1210 10-06
B6242w
CYL 4-6
KNOCK SENSOR
1210 10-02
B6205
INTAKE
AIR TEMPERATURE
SENSOR
1210 10 02
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
1210 10-05
R6252
THROTTLE
POSITION
SENSOR
1210 10-07
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
1210 10-10
A2
INSTRUMENT
CLUSTER

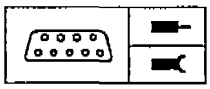


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
2	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
3	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
4	M	Ground	Ground
5	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
6	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
7		Not used	
8	E	Drive range P/N	Automatic transmission range switch
9	A	A/C signal	Pressure switch
10	A	Auxiliary ventilation signal	Integrated climate regulation control module
11		Not used	
12	E	Vehicle speed signal	Instrument cluster
13		Not used	
14	A	Throttle valve position	Transmission control module (EGS)
15	E	Drive-away protection signal	On-board computer/Body electronics control module (early production)
15	E	Drive-away protection signal	Starter immobilization relay (late production)
16		Not used	
17	A	TI-measurement signal (fuel consumption)	Instrument cluster
18	A	Crankshaft RPM speed signal TD	Instrument cluster
19		Not used	
20	E	Ignition timing intervention	Transmission control module (EGS)
21		Not used	
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
24	A	A/C compressor control	Compressor control relay
25	A	Camshaft control signal	Camshaft control
26	E	Battery voltage	Jump start junction point
27	A	Idle speed signal	Idle speed control valve
28	M	Ground	Ground

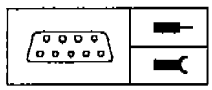
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
30	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
31	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
32	M	Ground	Ground
33	A	Cyl. 5 fuel injection valve control	Cyl.5 fuel injection valve
34	M	Ground	Ground
35	M	Shield, crankshaft position/RPM sensor	Shield
36	M	Shield, camshaft sensor	Shield
37		Not used	
38		Not used	
39	M	Shield, knock sensor (Cyl. 1-3)	Knock sensor (Cyl. 1-3)
40	M	Shield, knock sensor (Cyl. 4-6)	Knock sensor (Cyl. 4-6)
41		Not used	
42	M	Shield, oxygen sensor	Shield
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48	E	Voltage supply	Engine control module relay
49	E	Ignition signal	Ignition switch
50	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
51	A	Evaporative emission valve control	Evaporative emission valve
52	A	Fuel pump signal	Fuel pump relay
53	M	Ground, oxygen sensor	Oxygen sensor
54	E	Voltage supply	Engine control module relay
55	A	DME-relay signal	Engine control module relay
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector

E = Input, A = Output, M = Ground



Pin Assignments

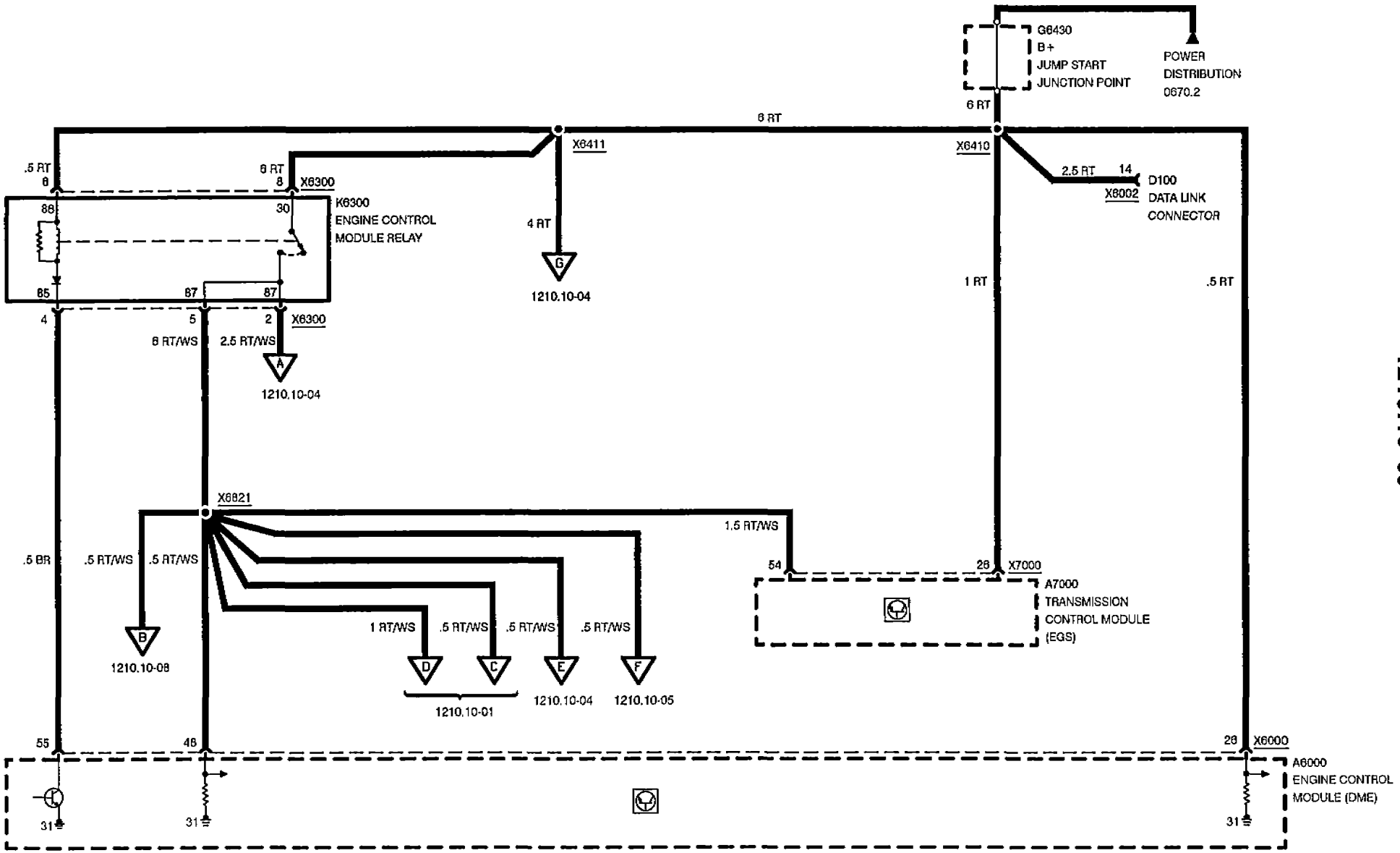
Pin	Type	Description/Function	Connection
61		Not used	
62	M	Ground	Ground
63	E	Knock sensor signal (-)	Knock sensor (Cyl. 4-6)
64	E	Knock sensor signal (-)	Knock sensor (Cyl. 1-3)
65	A	Knock sensor signal (+)	Knock sensor (Cyl. 1-3)
66	A	Knock sensor signal (+)	Knock sensor (Cyl. 4-6)
67		Not used	
68	M	Ground, air mass meter	Hot film air mass meter
69	E	Air mass meter signal	Hot film air mass meter
70		Not used	
71		Not used	
72	A	Voltage supply	Throttle position sensor
73	E	Oxygen sensor signal	Oxygen sensor
74	M	Ground, hall effect camshaft sensor	Hall effect camshaft sensor
75	M	Ground, oxygen sensor	Oxygen sensor
76	M	Ground, throttle position sensor	Throttle position sensor
77	E	Throttle position signal	Throttle position sensor
78	E	Crankshaft position/RPM signal (-)	Crankshaft position/RPM sensor
79	A	Crankshaft position/RPM signal (+)	Crankshaft position/RPM sensor
80	E	Engine coolant temperature	Engine coolant temperature sensor
81	A	Engine coolant temperature	Engine coolant temperature sensor
82	M	Ground, crankshaft position/RPM sensor	Crankshaft position/RPM sensor
83	E	Camshaft signal (-)	Hall effect camshaft sensor
84	A	Camshaft signal (+)	Hall effect camshaft sensor
85	E	Engine intake air temperature	Engine intake air temperature sensor
86	M	Ground, engine intake air temperature sensor	Engine intake air temperature sensor
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

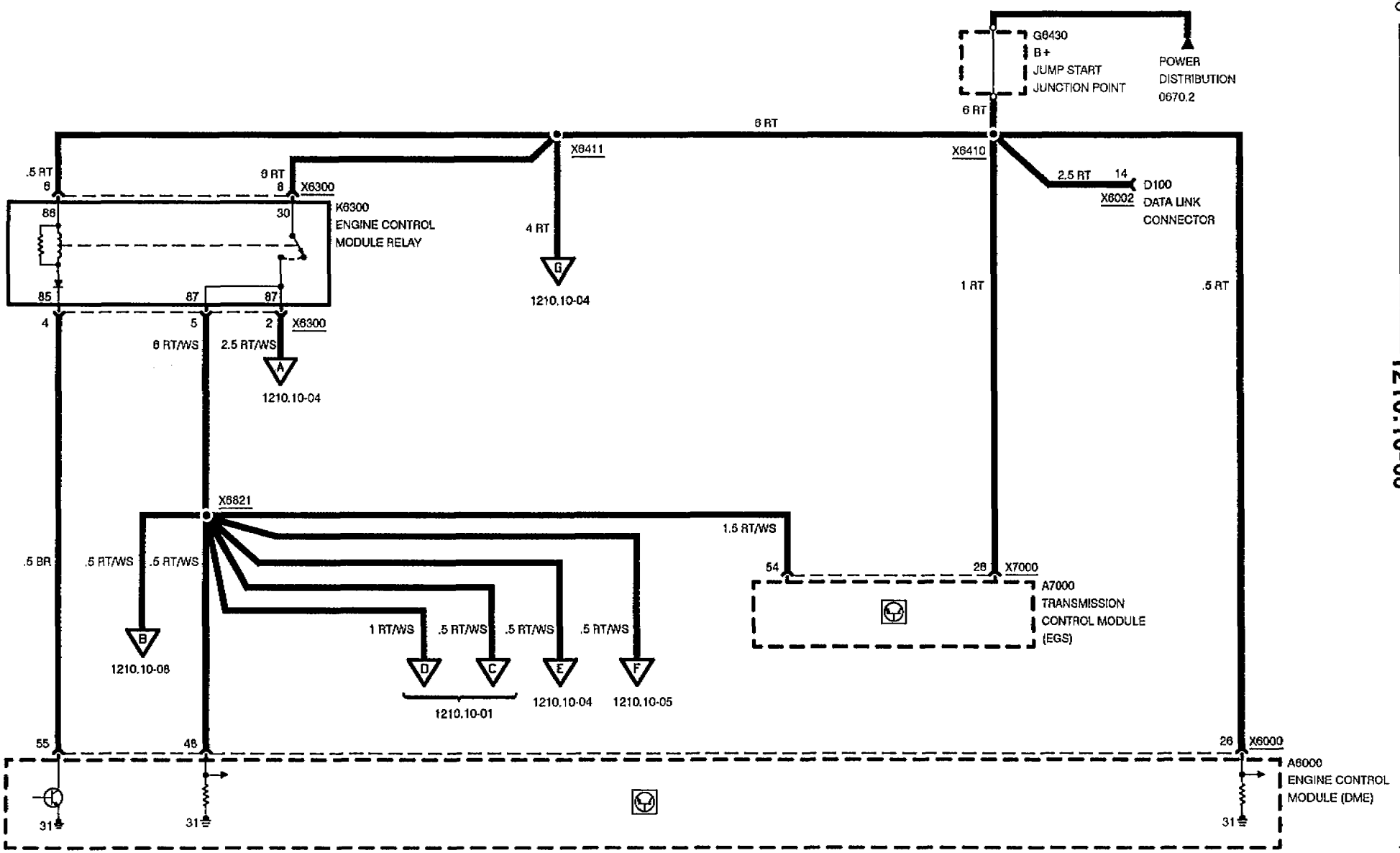
E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

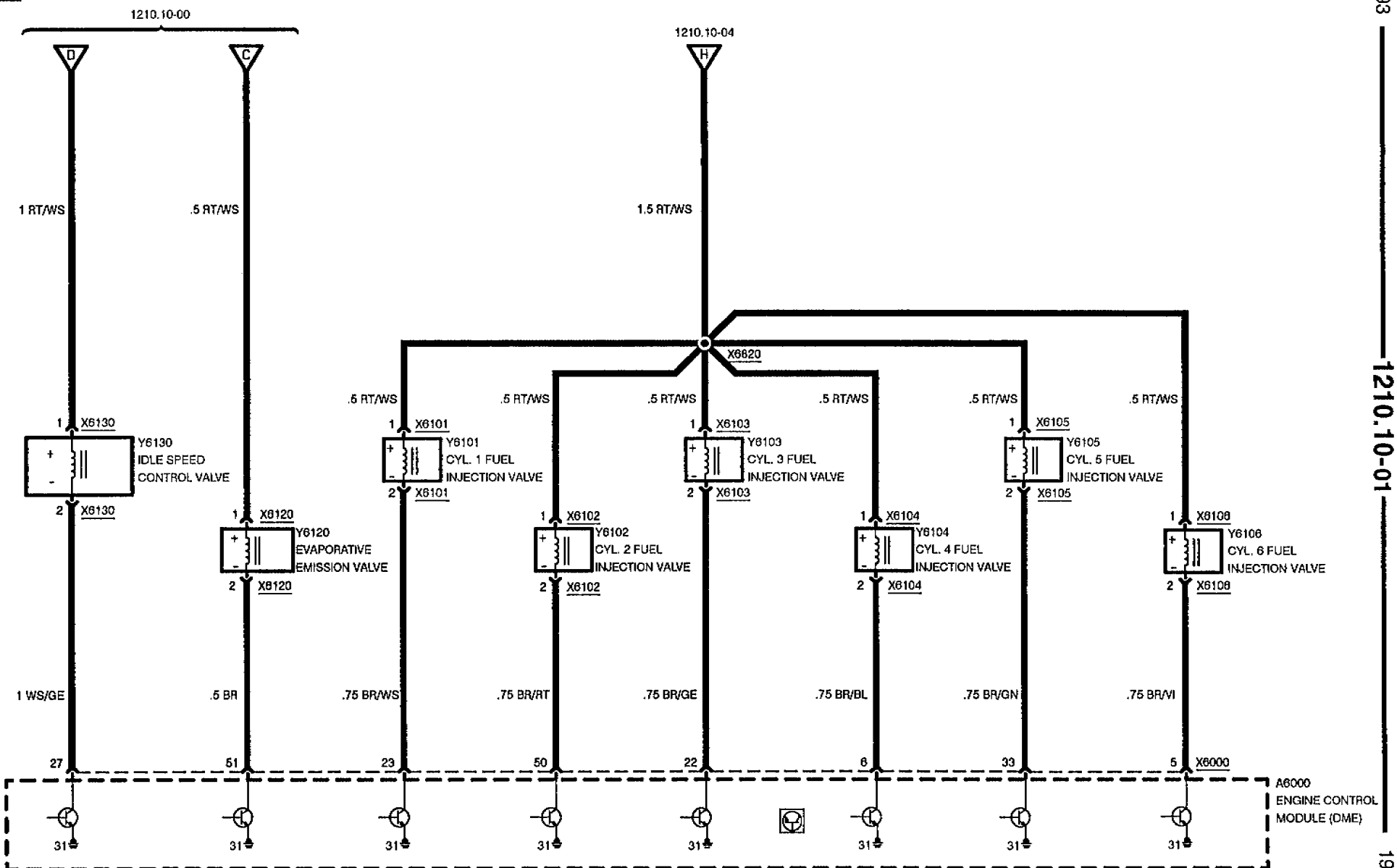
CDN

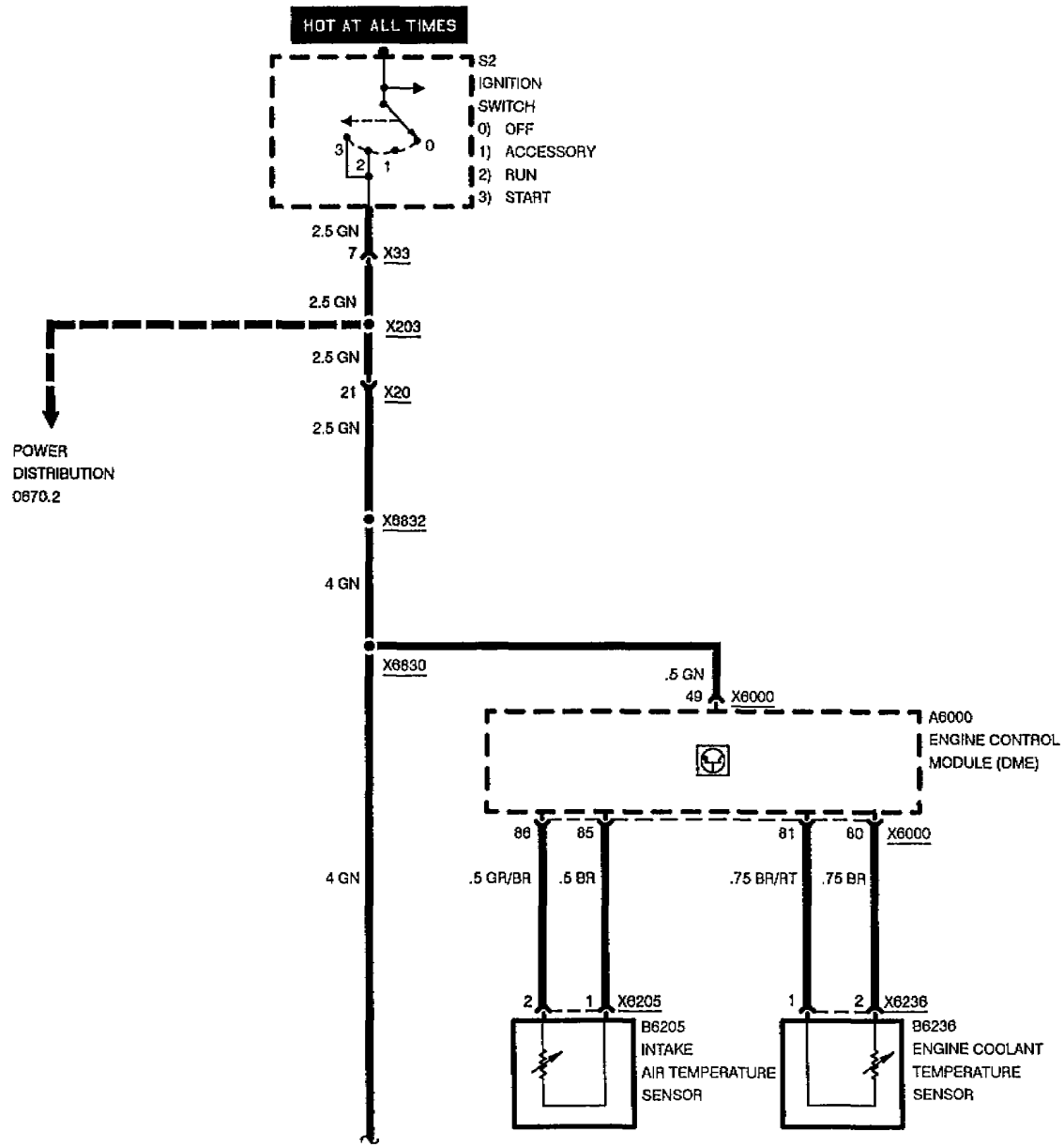
POWER

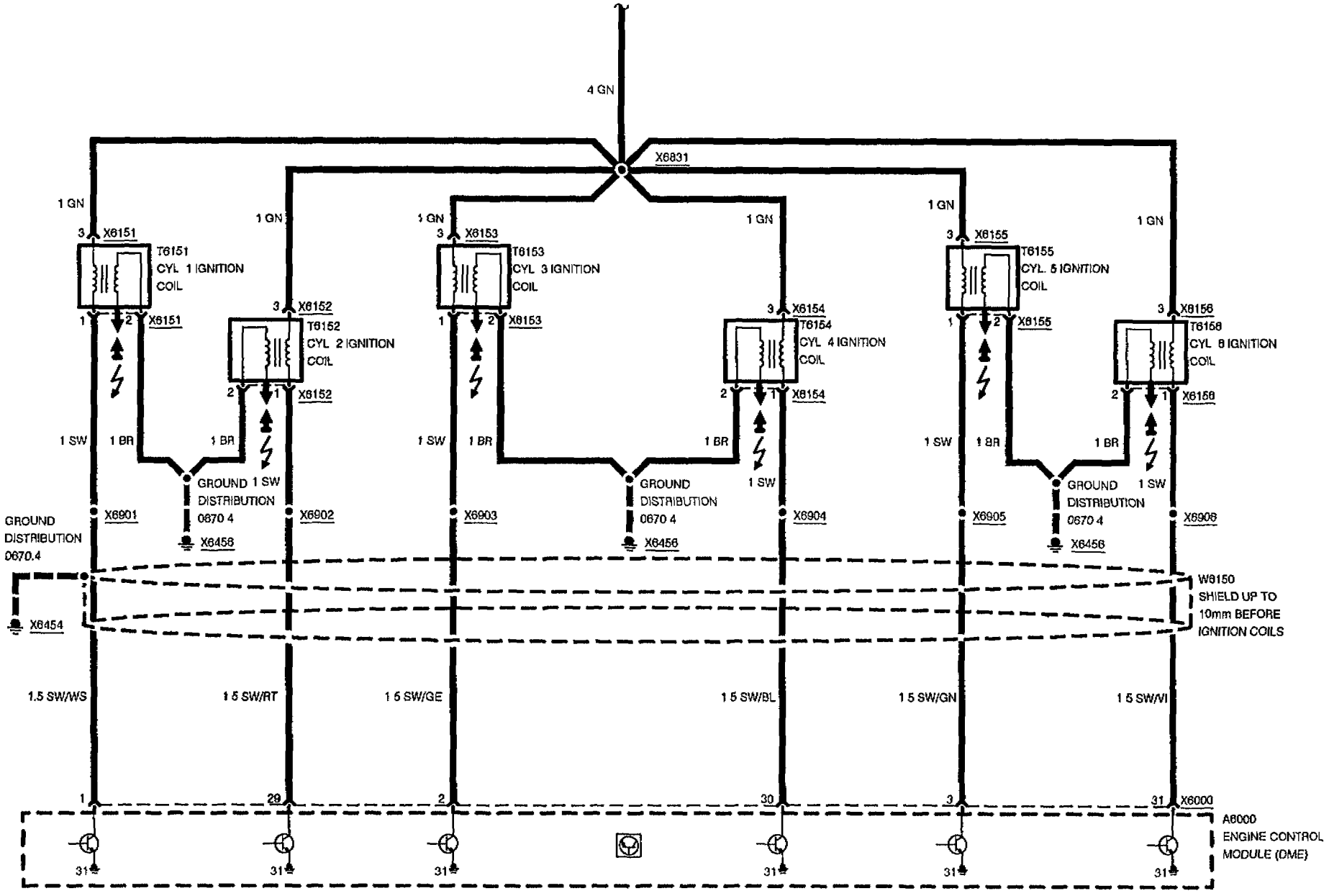


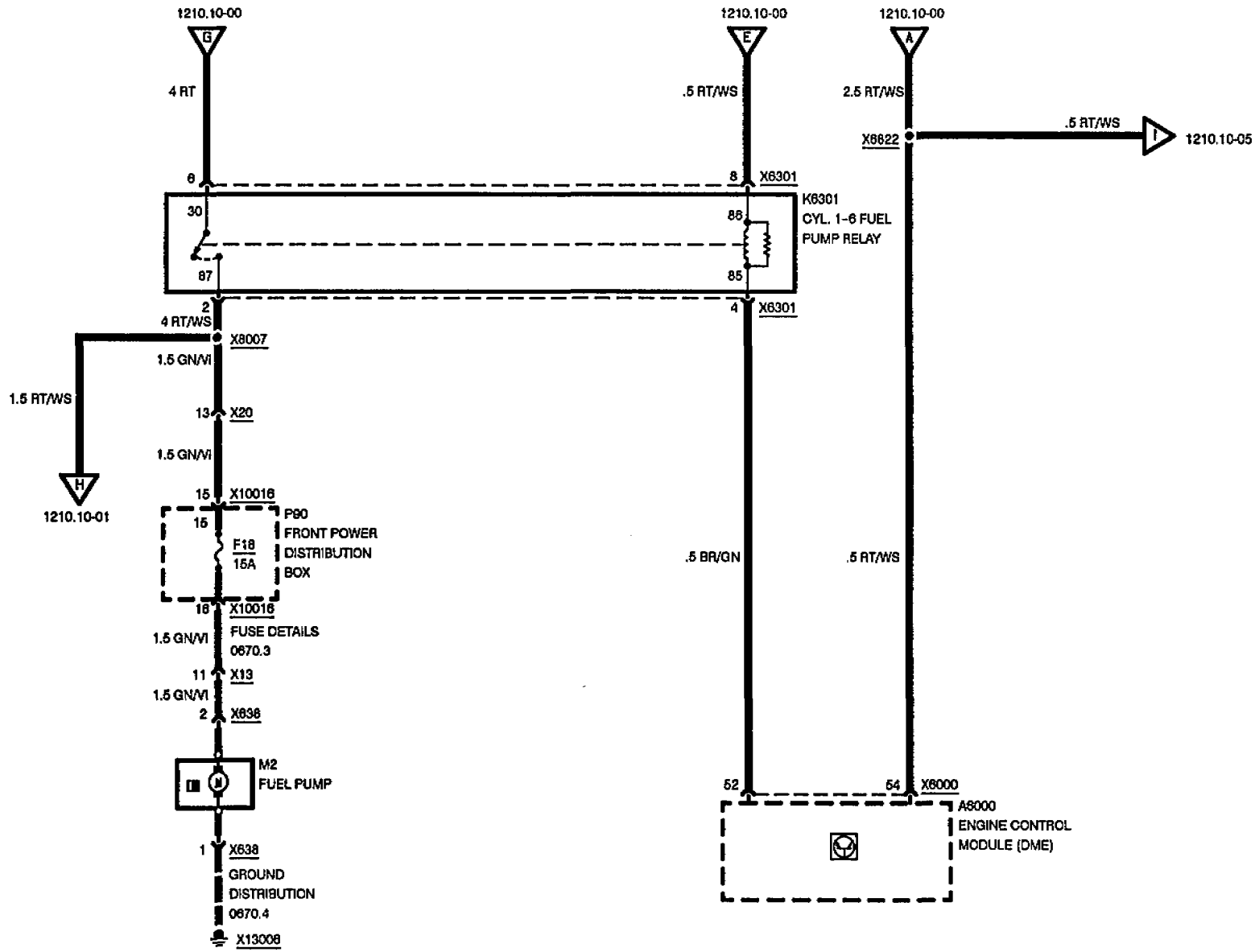

G6430
B+
JUMP START
JUNCTION POINT
POWER
DISTRIBUTION
0670.2
6 RT
6 RT
X6411
X6410
.5 RT
6
6 RT
8
X6300
K6300
ENGINE CONTROL
MODULE RELAY
86
30
85
87
87
4
5
2
X6300
6 RT/WS
2.5 RT/WS
4 RT
G
1210.10-04
1 RT
.5 RT
2.5 RT
14
D100
X6002
DATA LINK
CONNECTOR
A
1210.10-04
X6821
1.5 RT/WS
.5 BR
.5 RT/WS
.5 RT/WS
54
28
X7000
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
B
1210.10-08
1 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
D
C
E
F
1210.10-01
1210.10-04
1210.10-05
55
48
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
31
31

ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

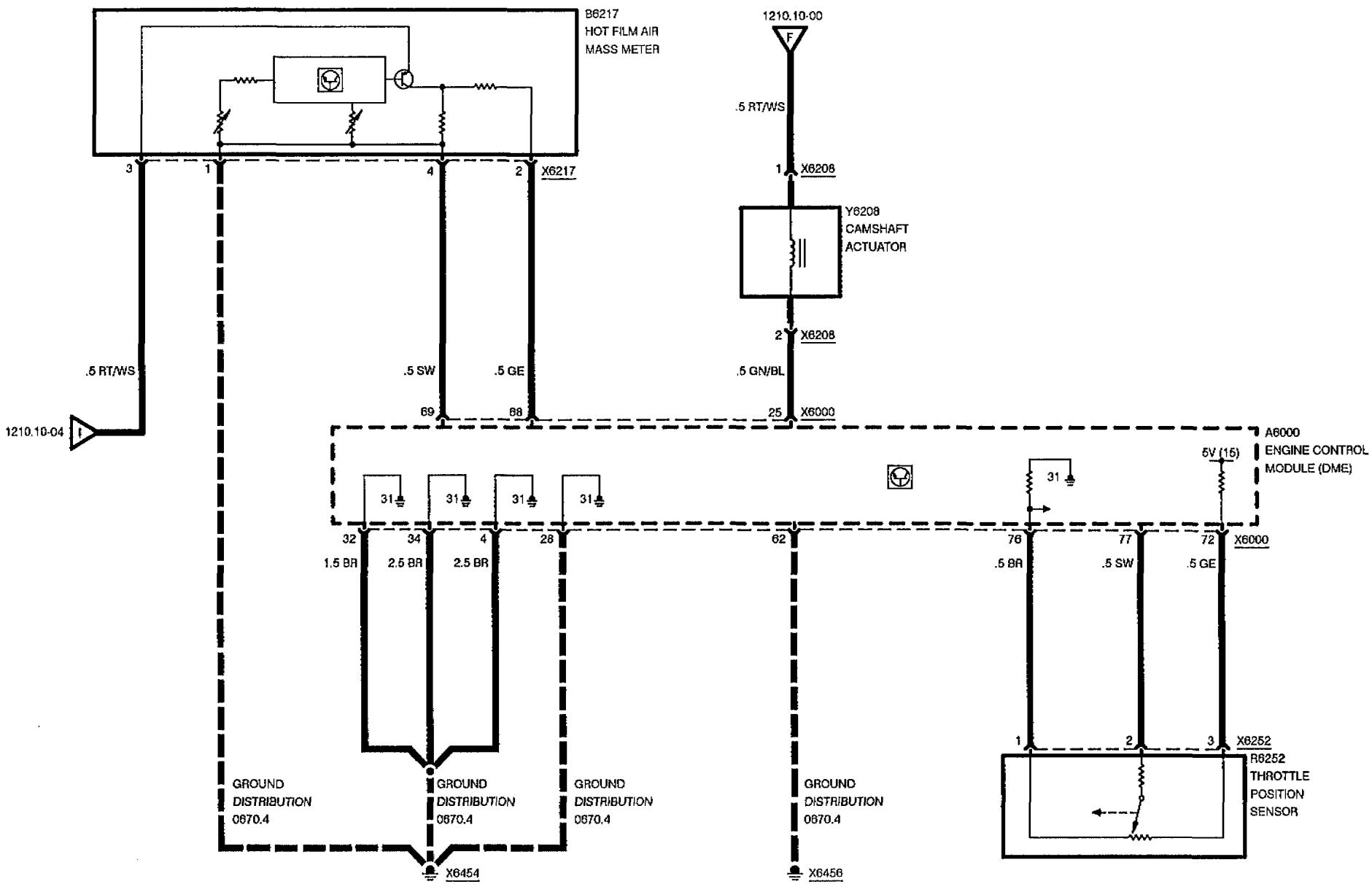


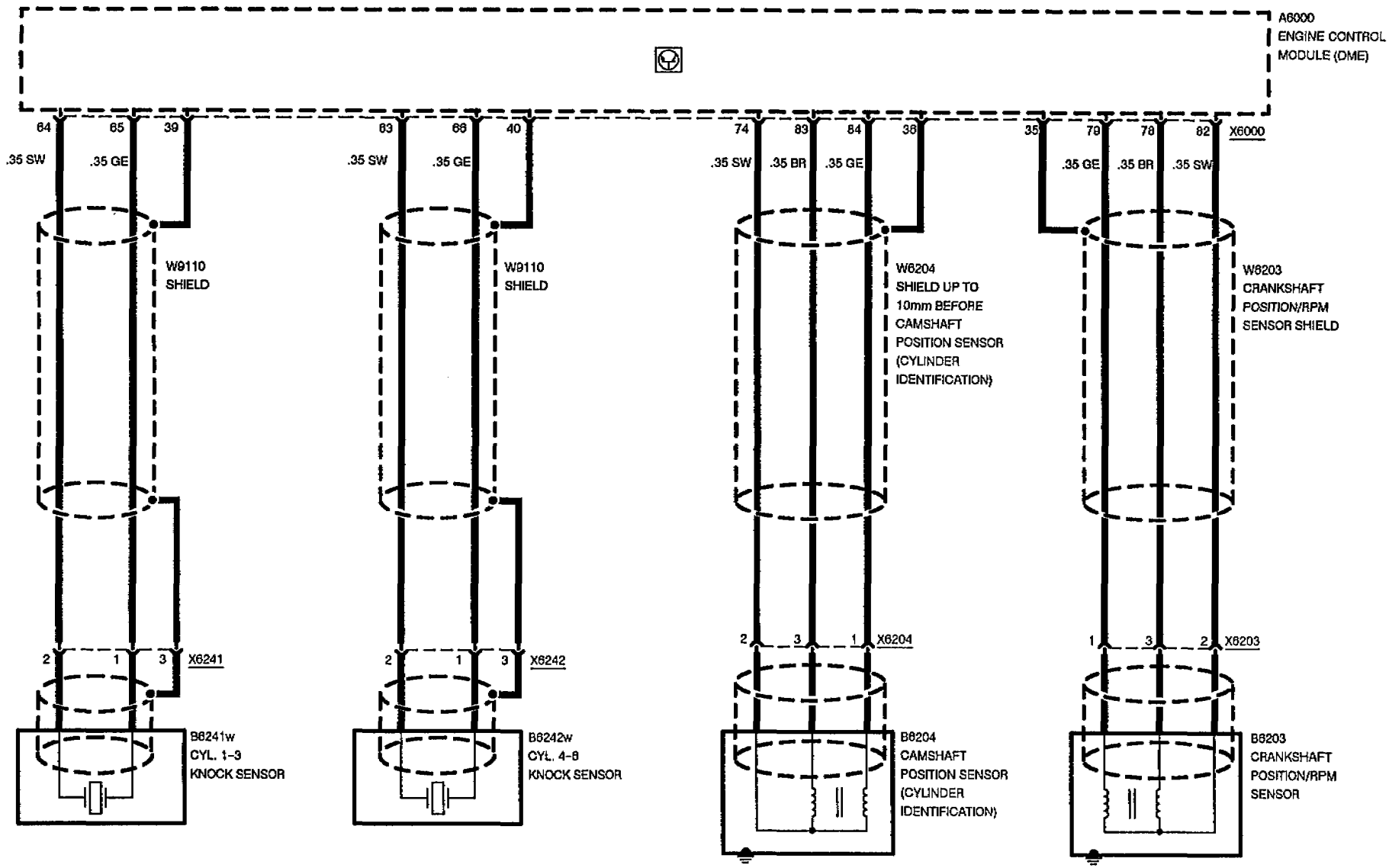

HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
2.5 GN
7
X33
2.5 GN
X203
2.5 GN
21
X20
2.5 GN
POWER DISTRIBUTION 0670.2
X6832
4 GN
X6830
.5 GN
49
X6000
A6000
ENGINE CONTROL MODULE (DME)
86
85
81
80
X6000
4 GN
.5 GR/BR
.5 BR
.75 BR/RT
.75 BR
2
1
X6205
1
2
X6236
B6205
INTAKE AIR TEMPERATURE SENSOR
B6236
ENGINE COOLANT TEMPERATURE SENSOR


4 GN
X6831
1 GN
3 X6151
T6151
CYL 1 IGNITION
COIL
1 2 X6151
3 X6152
T6152
CYL 2 IGNITION
COIL
2 1 X6152
3 X6153
T6153
CYL 3 IGNITION
COIL
1 2 X6153
3 X6154
T6154
CYL 4 IGNITION
COIL
2 1 X6154
3 X6155
T6155
CYL. 5 IGNITION
COIL
1 2 X6155
3 X6156
T6156
CYL 6 IGNITION
COIL
2 1 X6156
1 SW
1 BR
GROUND 1 SW
DISTRIBUTION
0670 4
X6456
GROUND
DISTRIBUTION
0670.4
X6901
X6902
X6903
X6904
X6905
X6906
X6454
W6150
SHIELD UP TO
10mm BEFORE
IGNITION COILS
1.5 SW/WS
1 5 SW/RT
1 5 SW/GE
1 5 SW/BL
1 5 SW/GN
1 5 SW/VI
1
29
2
30
3
31
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31

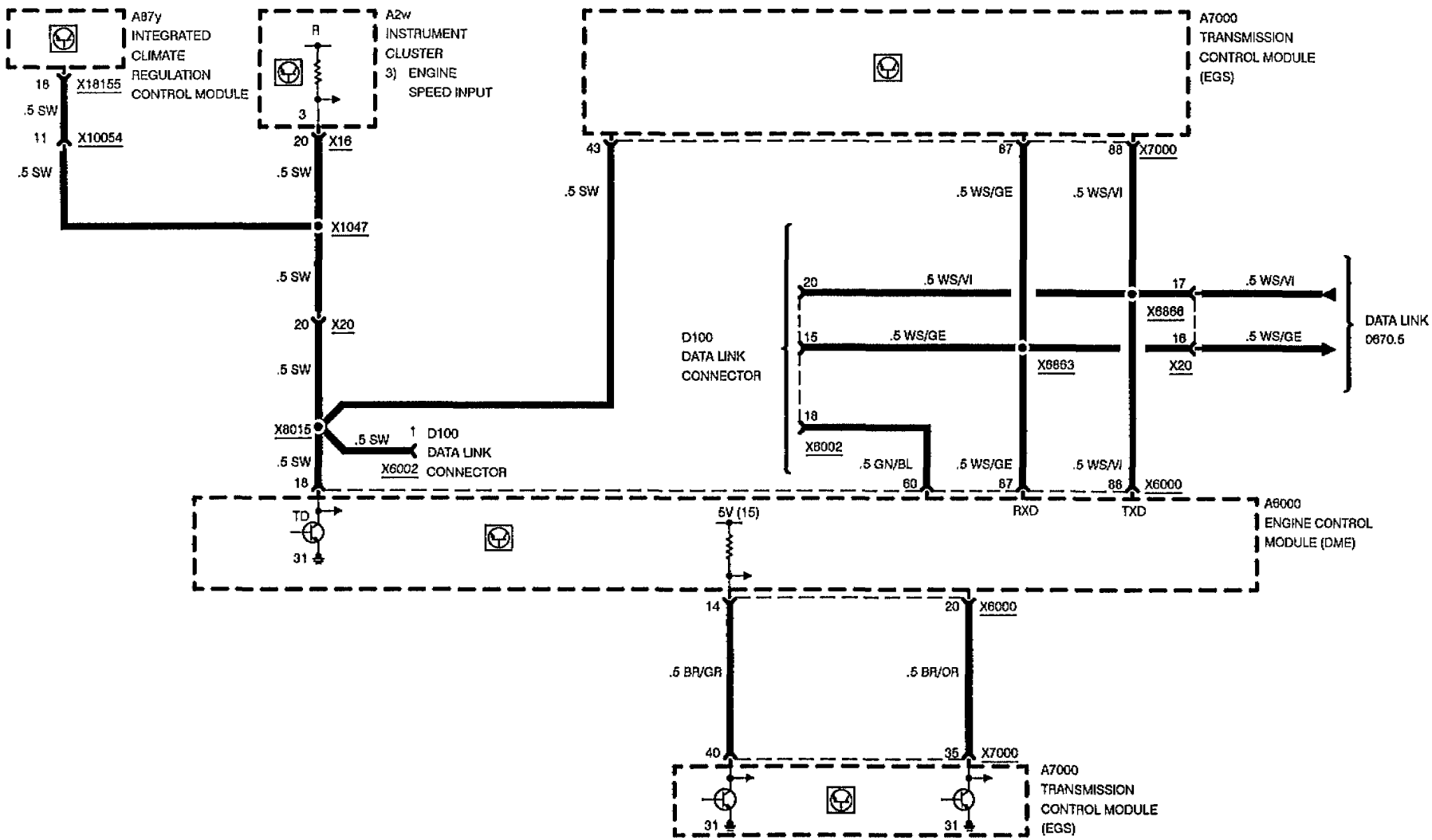

1210.10-00
G
4 RT
6
30
87
2
4 RT/WS
X8007
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
15
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
16
X10016
1.5 GN/VI
FUSE DETAILS
0670.3
11
X13
1.5 GN/VI
2
X636
M2
FUEL PUMP
1
X638
GROUND
DISTRIBUTION
0670.4
X13008
1.5 RT/WS
H
1210.10-01
1210.10-00
E
.5 RT/WS
8
X6301
K6301
CYL. 1-6 FUEL
PUMP RELAY
86
85
4
X6301
.5 BR/GN
52
1210.10-00
A
2.5 RT/WS
X6622
.5 RT/WS
I
1210.10-05
.5 RT/WS
54
X6000
A6000
ENGINE CONTROL
MODULE (DME)

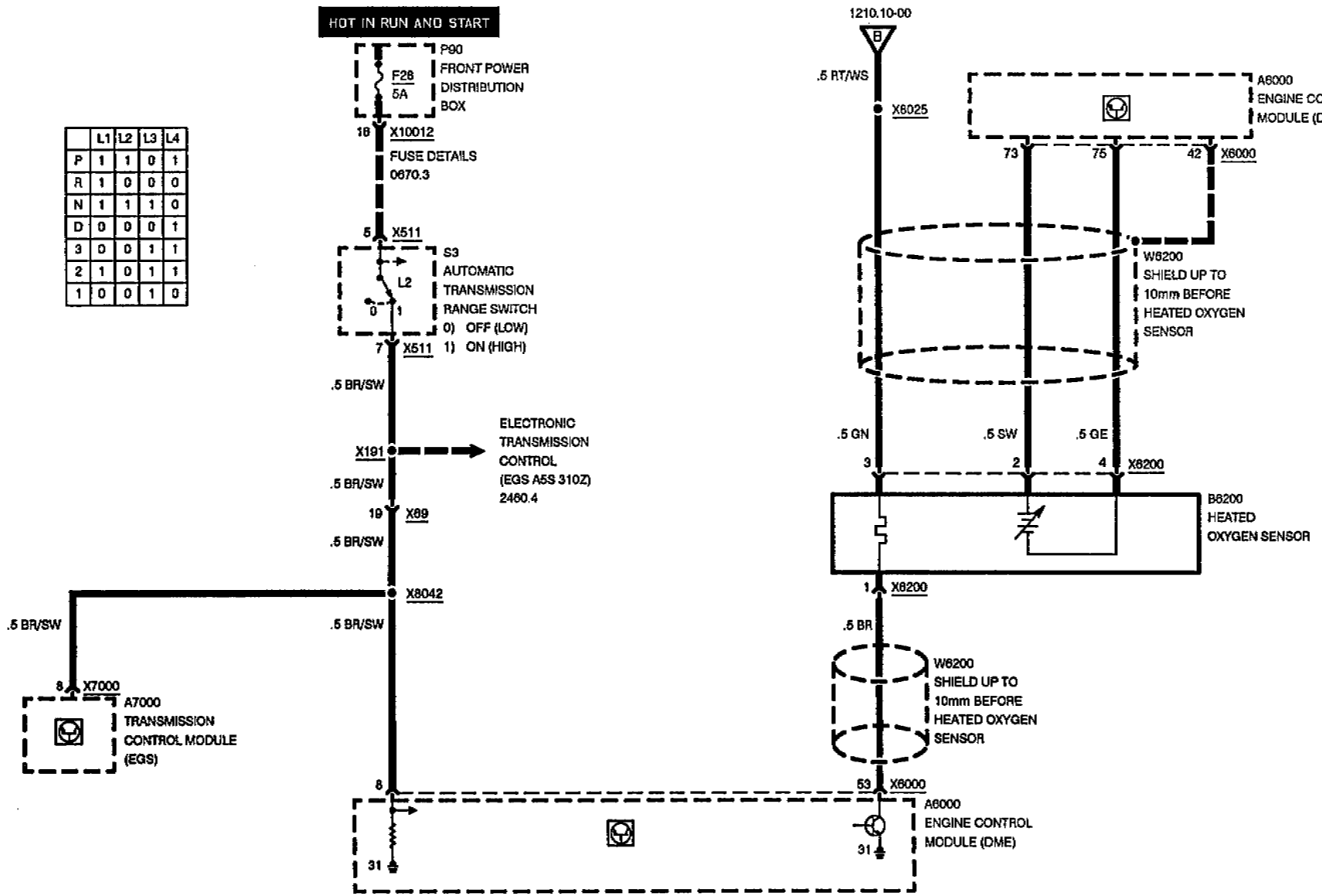
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)




A6000
ENGINE CONTROL
MODULE (DME)
64
65
39
.35 SW
.35 GE
W9110
SHIELD
2
1
3
X6241
B6241w
CYL. 1-3
KNOCK SENSOR
63
66
40
.35 SW
.35 GE
W9110
SHIELD
2
1
3
X6242
B6242w
CYL. 4-6
KNOCK SENSOR
74
83
84
38
.35 SW
.35 BR
.35 GE
W6204
SHIELD UP TO
10mm BEFORE
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
2
3
1
X6204
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
35
79
78
82
X6000
.35 GE
.35 BR
.35 SW
W6203
CRANKSHAFT
POSITION/RPM
SENSOR SHIELD
1
3
2
X6203
B6203
CRANKSHAFT
POSITION/RPM
SENSOR

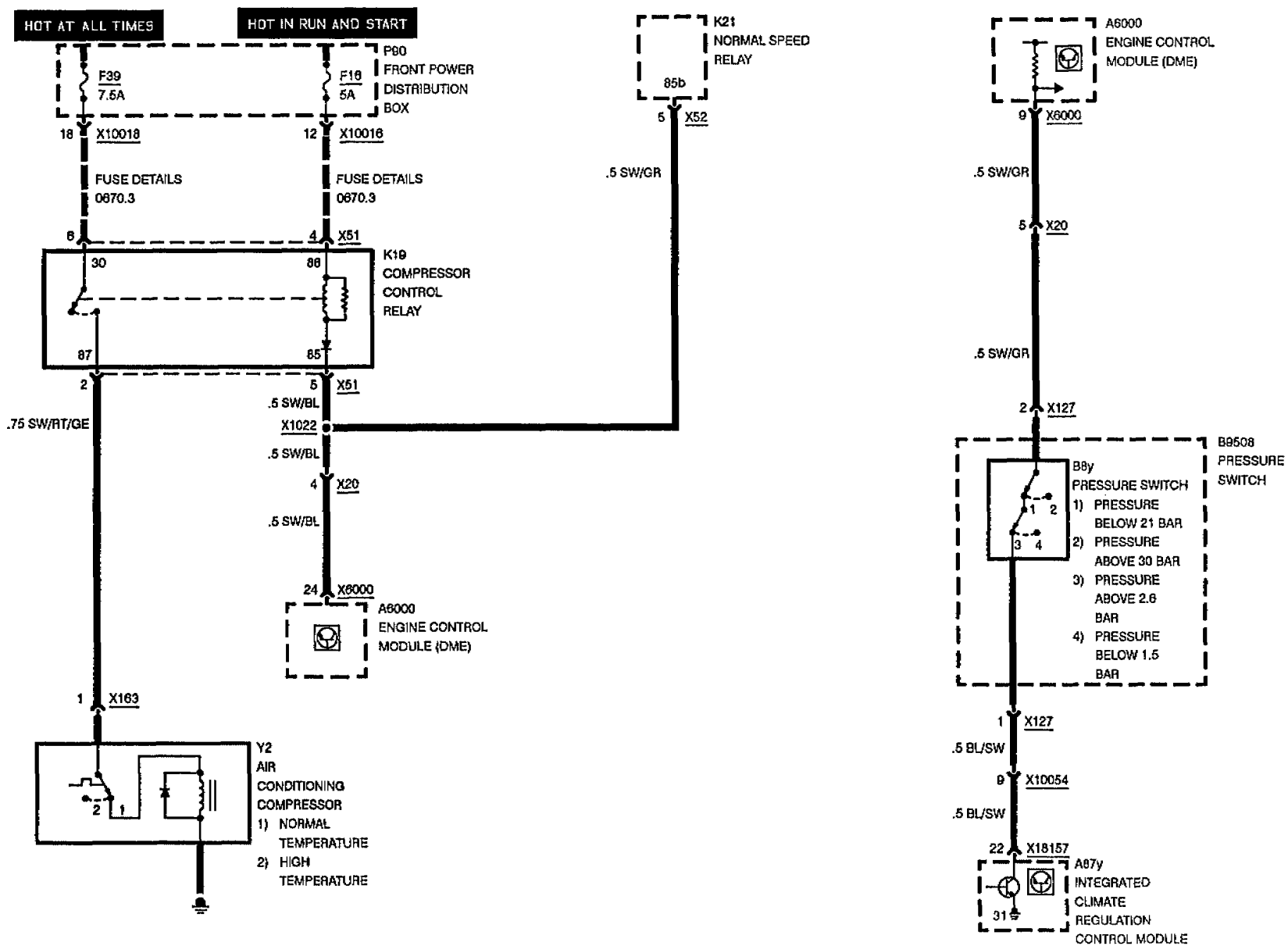
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)



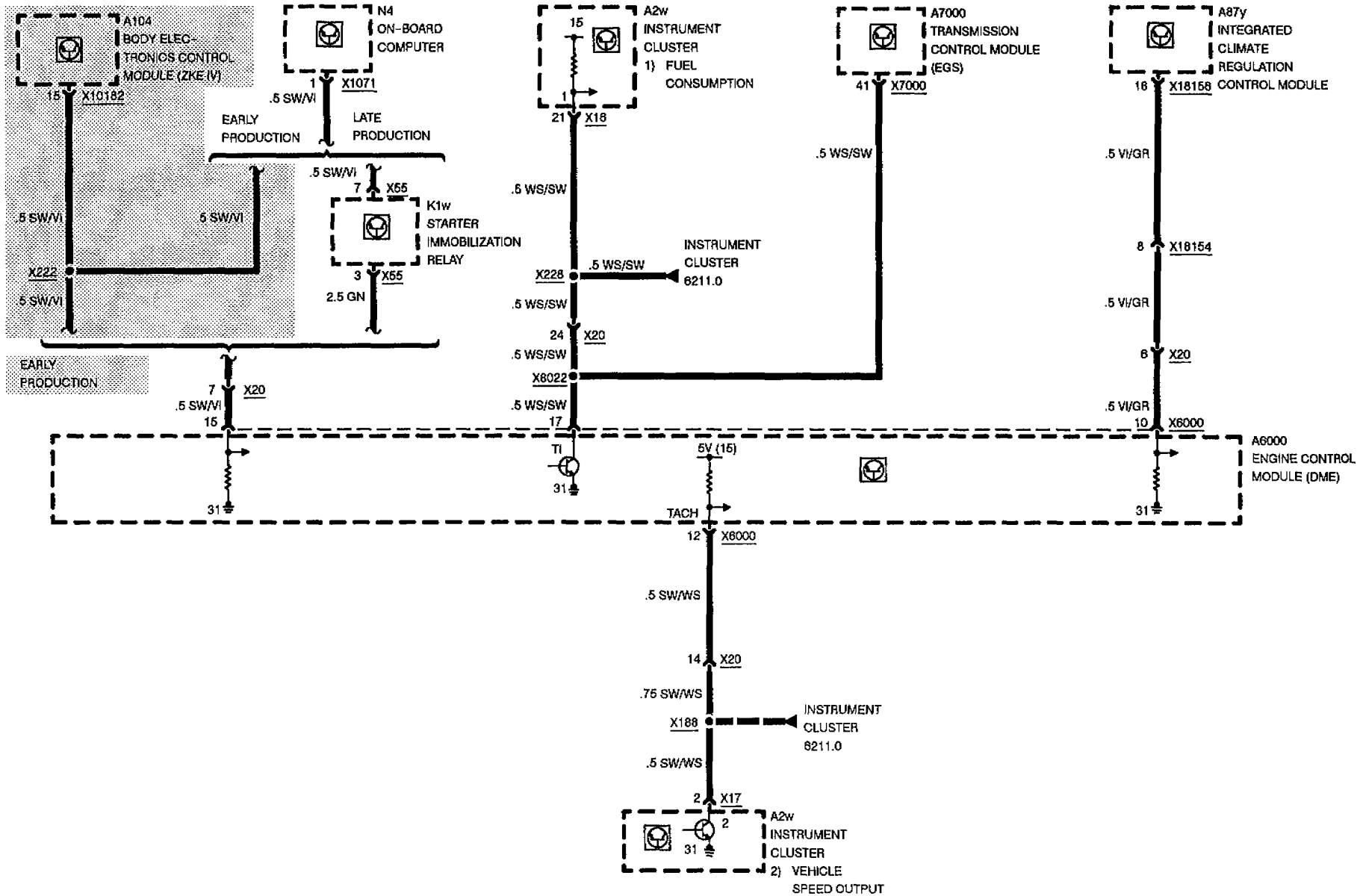


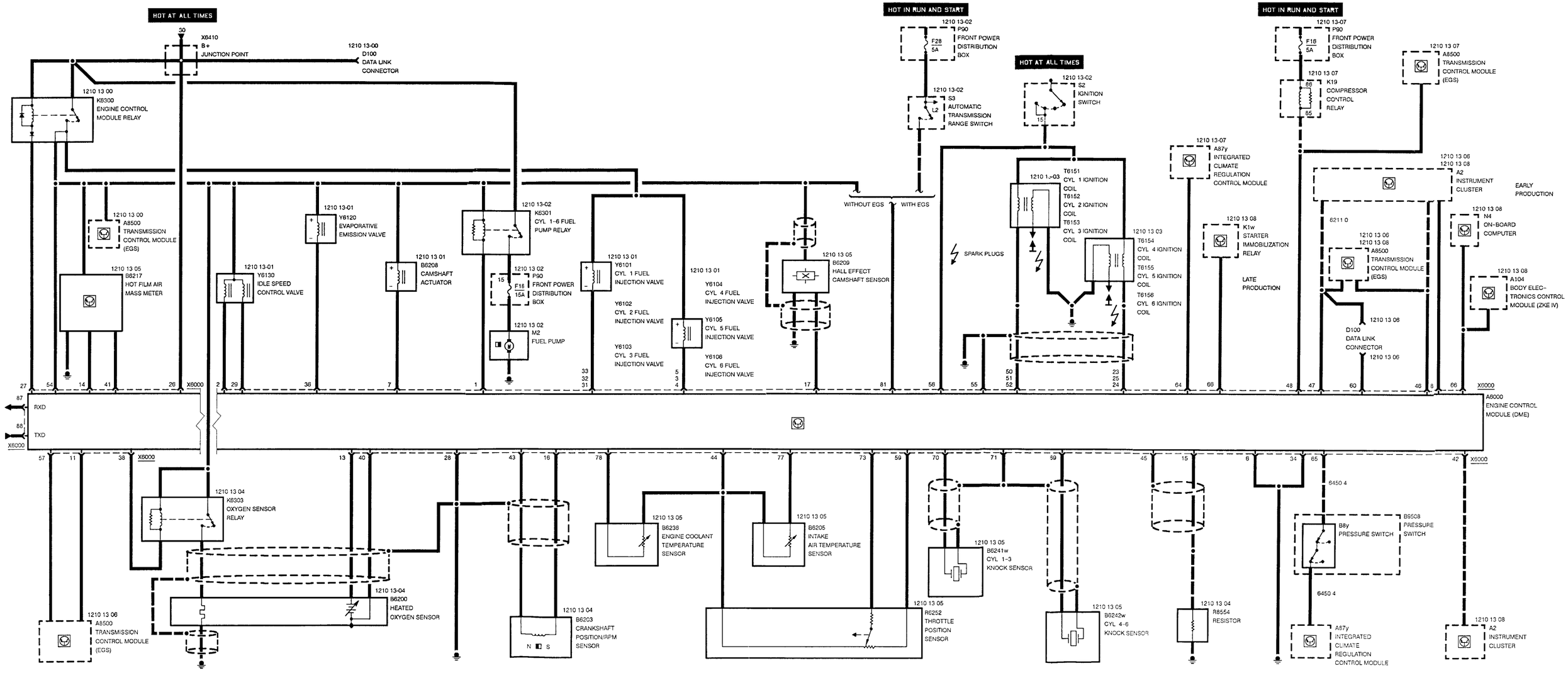
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

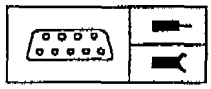
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)



ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)




HOT AT ALL TIMES
30
X6410
B+
JUNCTION POINT
1210 13-00
D100
DATA LINK
CONNECTOR
1210 13 00
K6300
ENGINE CONTROL
MODULE RELAY
1210 13 00
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 05
B6217
HOT FILM AIR
MASS METER
1210 13-01
Y6130
IDLE SPEED
CONTROL VALVE
1210 13-01
Y6120
EVAPORATIVE
EMISSION VALVE
1210 13 01
B6208
CAMSHAFT
ACTUATOR
1210 13-02
K6301
CYL 1-6 FUEL
PUMP RELAY
1210 13 02
P90
FRONT POWER
DISTRIBUTION
BOX
F18
15A
1210 13 02
M2
FUEL PUMP
1210 13 01
Y6101
CYL 1 FUEL
INJECTION VALVE
Y6102
CYL 2 FUEL
INJECTION VALVE
Y6103
CYL 3 FUEL
INJECTION VALVE
1210 13 01
Y6104
CYL 4 FUEL
INJECTION VALVE
Y6105
CYL 5 FUEL
INJECTION VALVE
Y6106
CYL 6 FUEL
INJECTION VALVE
1210 13 05
B6209
HALL EFFECT
CAMSHAFT SENSOR
HOT IN RUN AND START
1210 13-02
P90
FRONT POWER
DISTRIBUTION
BOX
F28
5A
1210 13-02
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
WITHOUT EGS
WITH EGS
HOT AT ALL TIMES
1210 13-02
S2
IGNITION
SWITCH
15
SPARK PLUGS
1210 13-03
T6151
CYL 1 IGNITION
COIL
T6152
CYL 2 IGNITION
COIL
T6153
CYL 3 IGNITION
COIL
1210 13 03
T6154
CYL 4 IGNITION
COIL
T6155
CYL 5 IGNITION
COIL
T6156
CYL 6 IGNITION
COIL
1210 13-07
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 13 08
K1w
STARTER
IMMOBILIZATION
RELAY
LATE
PRODUCTION
HOT IN RUN AND START
1210 13-07
P90
FRONT POWER
DISTRIBUTION
BOX
F18
5A
1210 13 07
K19
COMPRESSOR
CONTROL
RELAY
86
85
1210 13 07
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 06
1210 13 08
A2
INSTRUMENT
CLUSTER
EARLY
PRODUCTION
6211 0
1210 13 06
1210 13 08
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 08
N4
ON-BOARD
COMPUTER
1210 13 08
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
1210 13 08
D100
DATA LINK
CONNECTOR
1210 13 06
27 54 14 41 26 X6000 2 29 36 7 1 33 32 31 5 3 4 17 81 56 55 50 51 52 23 25 24 64 66 48 47 60 46 8 66 X6000
87
RXD
88
TXD
X6000
A6000
ENGINE CONTROL
MODULE (DME)
57 11 38 X6000 13 40 28 43 16 78 44 77 73 59 70 71 59 45 15 6 34 65 42 X6000
1210 13 04
K6303
OXYGEN SENSOR
RELAY
1210 13-04
B6200
HEATED
OXYGEN SENSOR
1210 13 06
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
1210 13 04
B6203
CRANKSHAFT
POSITION/RPM
SENSOR
N
S
1210 13 05
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
1210 13 05
B6205
INTAKE
AIR TEMPERATURE
SENSOR
1210 13 05
R6252
THROTTLE
POSITION
SENSOR
1210 13 05
B6241w
CYL 1-3
KNOCK SENSOR
1210 13 05
B6242w
CYL 4-6
KNOCK SENSOR
1210 13 04
R8554
RESISTOR
6450 4
B8y
PRESSURE SWITCH
B9508
PRESSURE
SWITCH
6450 4
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1210 13 08
A2
INSTRUMENT
CLUSTER

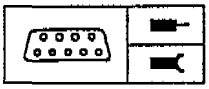


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2	A	Idle speed control valve - close winding control	Idle speed control valve
3	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
4	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
5	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
6	M	Ground, fuel injection valve output stages	Ground point
7	A	Camshaft actuator control	Camshaft actuator
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	Throttle valve position	Transmission control module (EGS)
12		Not used	
13	E	Oxygen sensor signal	Heated oxygen sensor
14	A	Hot wire air mass meter	Hot wire air mass meter
15	M	Ground	Ground point
16	E	Crankshaft position/RPM sensor signal (+)	Crankshaft position/RPM sensor
17	E	Camshaft position sensor	Hall effect camshaft sensor
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
25	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

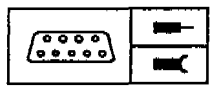
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve - opening winding control	Idle speed control valve
30		Not used	
31	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
32	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
33	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
34	M	Ground remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37		Not used	
38	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
39		Not used	
40	M	Oxygen sensor signal ground	Heated oxygen sensor
41	E	Hot wire air mass meter	Hot wire air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	E	Crankshaft position/RPM sensor signal (-)	Crankshaft position/RPM sensor
44	M	Ground for sensors	Engine intake air temperature sensor, engine coolant temperature sensor, and throttle position sensor
45	M	Ground for shield	Shield
46	A	Ti-measurement signal (fuel consumption)	Instrument cluster
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	A	A/C compressor control	Compressor control relay, terminal 85
49		Not used	
50	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
51	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
52	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch
57	E	Ignition timing intervention	Transmission control module (EGS)

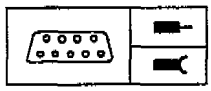
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
58		Not used	
59	A	5V component supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	A/C switch	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch
66	E	Drive-away protection signal (code)	On-board computer/Body electronics control module (early production)
66	E	Drive-away protection signal (code)	Starter immobilization relay (late production)
67		Not used	
68		Not used	
69	E	Cyl. 4-6 knock sensor	Cyl. 4-6 knock sensor
70	E	Cyl. 1-3 knock sensor	Cyl. 1-3 knock sensor
71	M	Ground for knock sensors and shields	Cyl. 1-3 knock sensor, cyl. 4-6 knock sensor, and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive range P/N	Automatic transmission range switch
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	

E = Input, A = Output, M = Ground



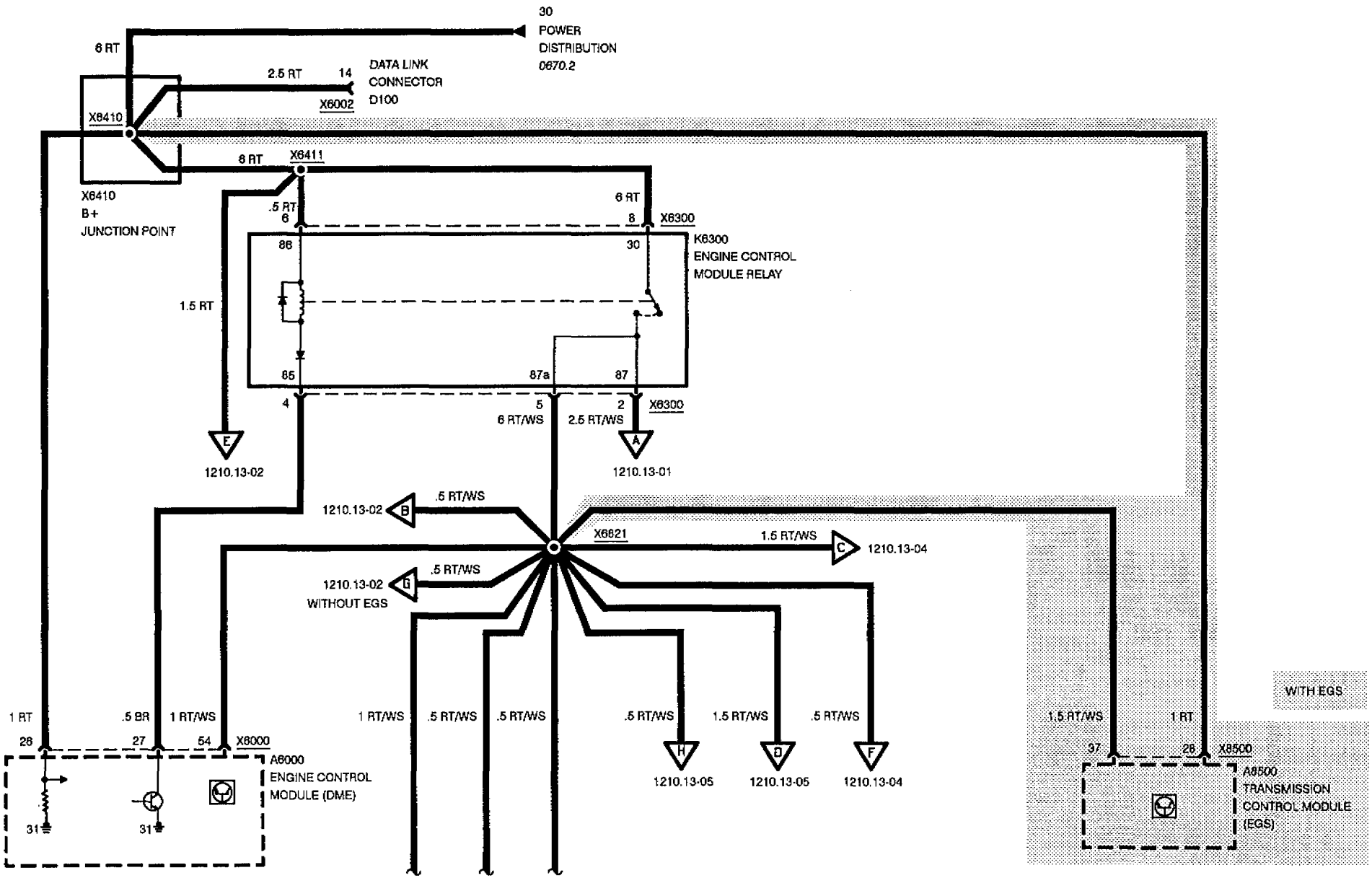
Pin Assignments

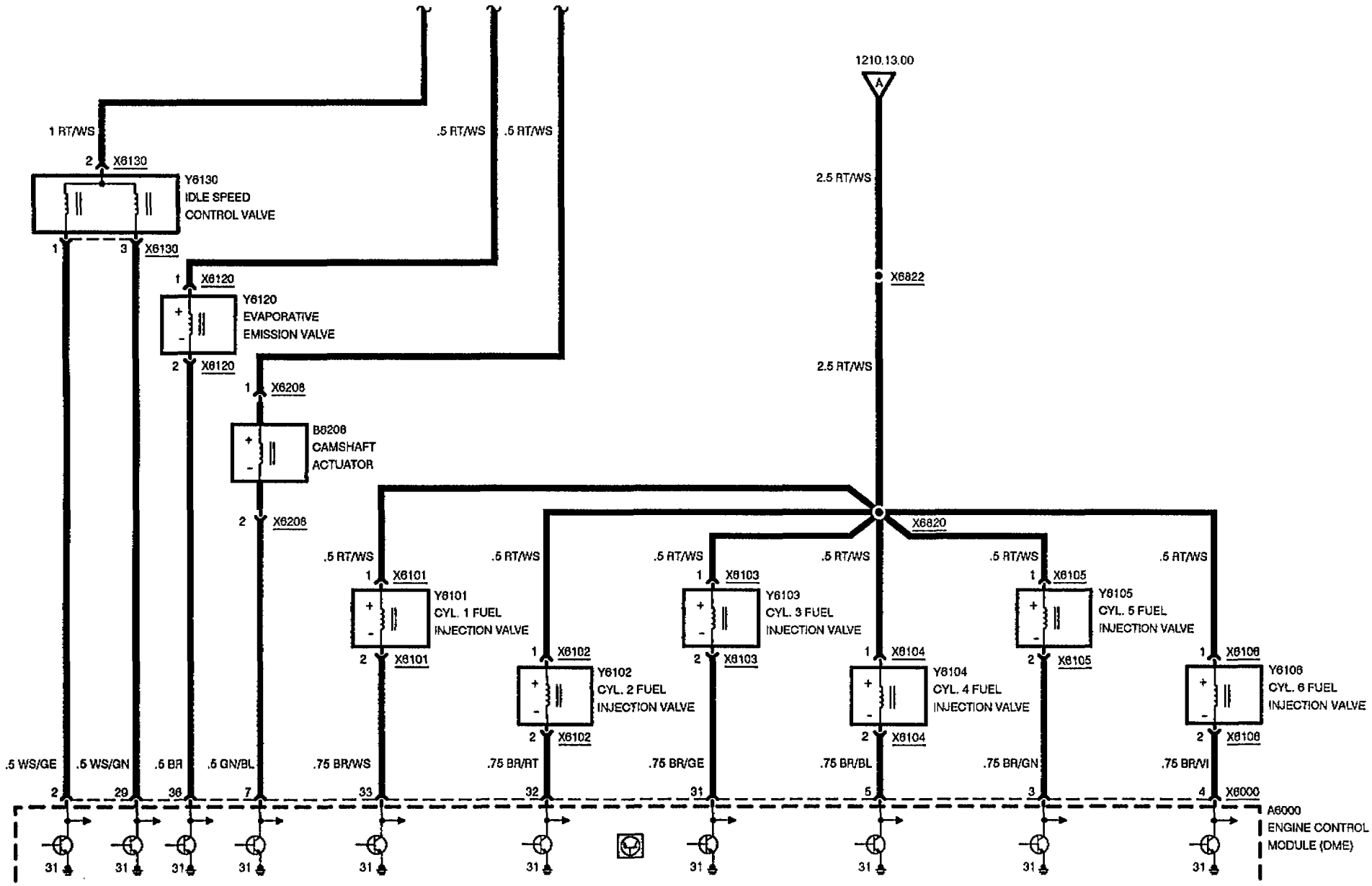
Pin	Type	Description/Function	Connection
87	E	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

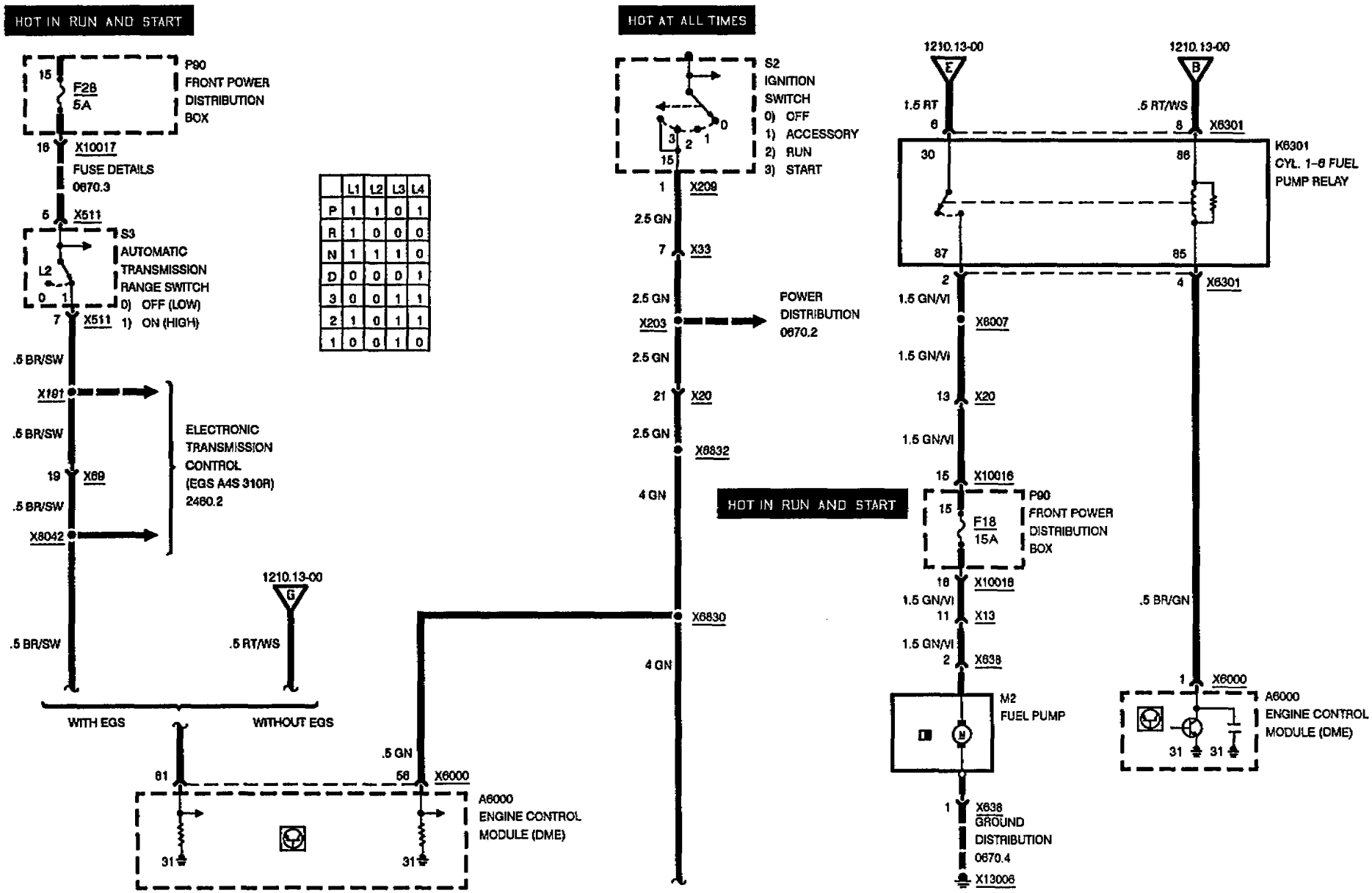
POWER, FUEL INJECTION VALVES

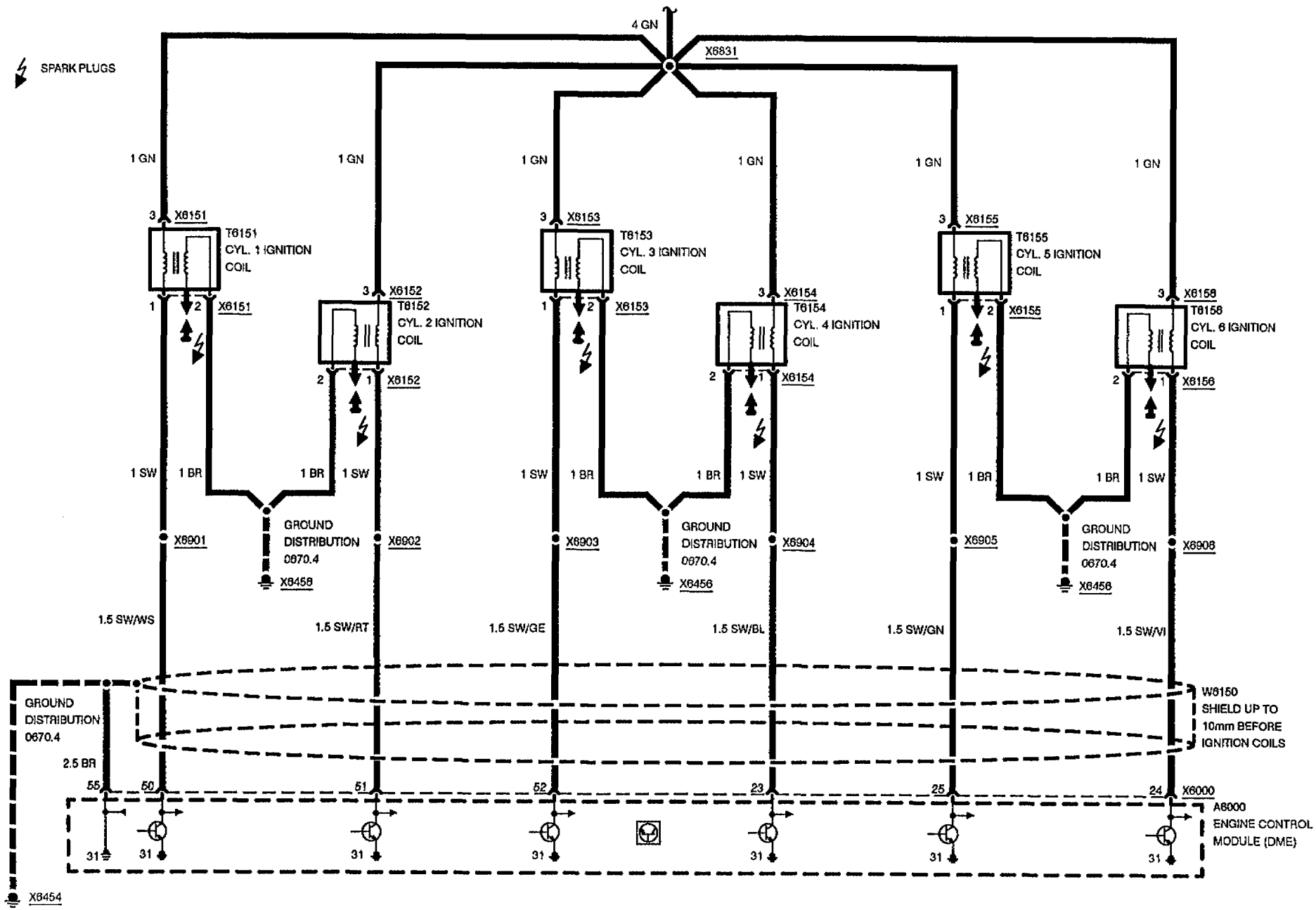



1210.13.00
A
1 RT/WS
.5 RT/WS
.5 RT/WS
2.5 RT/WS
2.5 RT/WS
X6822
X6820
2 X6130
Y6130
IDLE SPEED
CONTROL VALVE
1
3
X6130
1 X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2 X6120
1 X6206
B6206
CAMSHAFT
ACTUATOR
2 X6206
.5 RT/WS
1 X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2 X6101
.5 RT/WS
1 X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2 X6102
.5 RT/WS
1 X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2 X6103
.5 RT/WS
1 X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
2 X6104
.5 RT/WS
1 X6105
Y6105
CYL. 5 FUEL
INJECTION VALVE
2 X6105
.5 RT/WS
1 X6106
Y6106
CYL. 6 FUEL
INJECTION VALVE
2 X6106
.5 WS/GE
.5 WS/GN
.5 BR
.5 GN/BL
.75 BR/WS
.75 BR/RT
.75 BR/GE
.75 BR/BL
.75 BR/GN
.75 BR/VI
2
29
36
7
33
32
31
5
3
4
X6000
31
A6000
ENGINE CONTROL
MODULE (DME)

ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

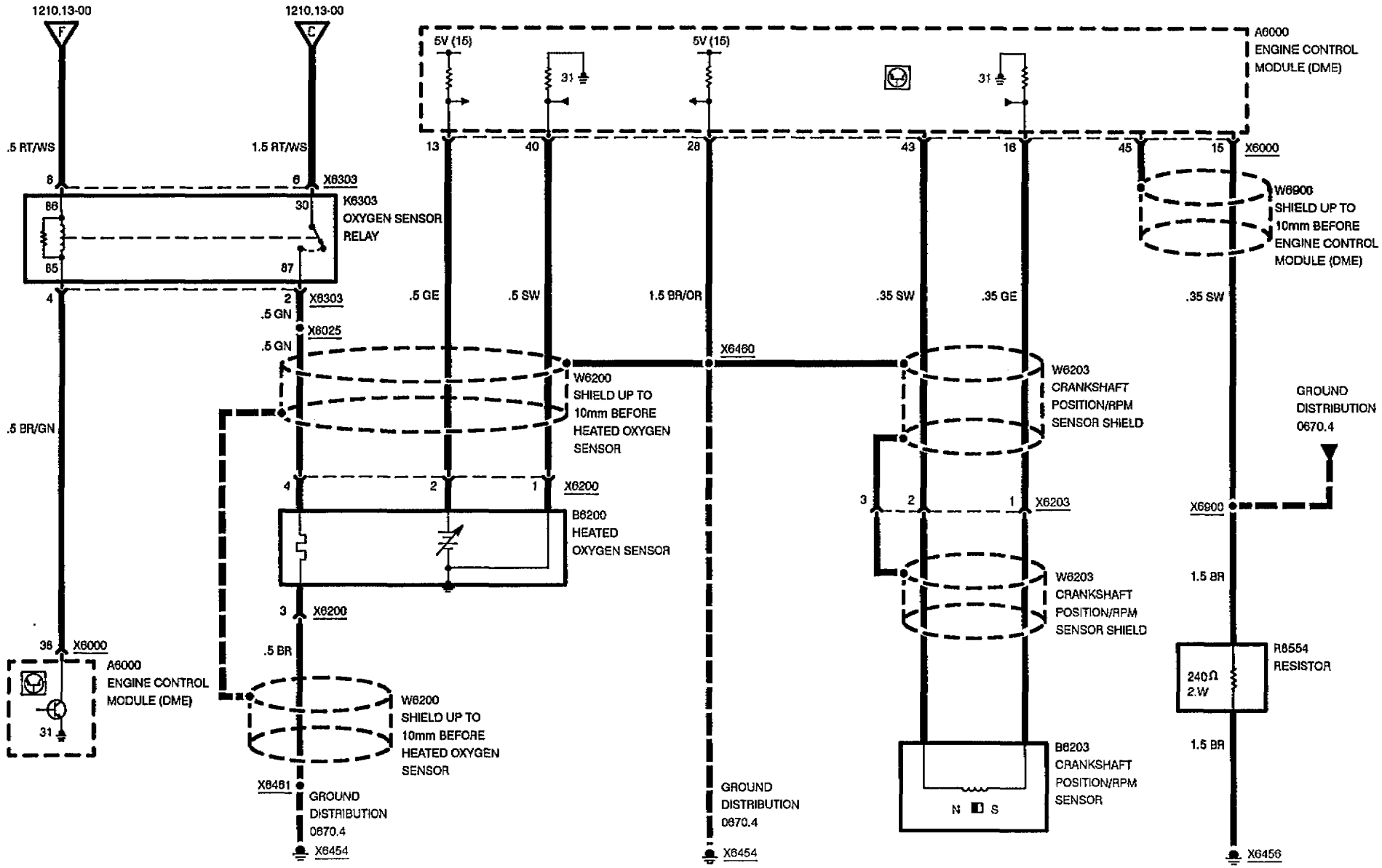
FUEL PUMP, IGNITION COILS



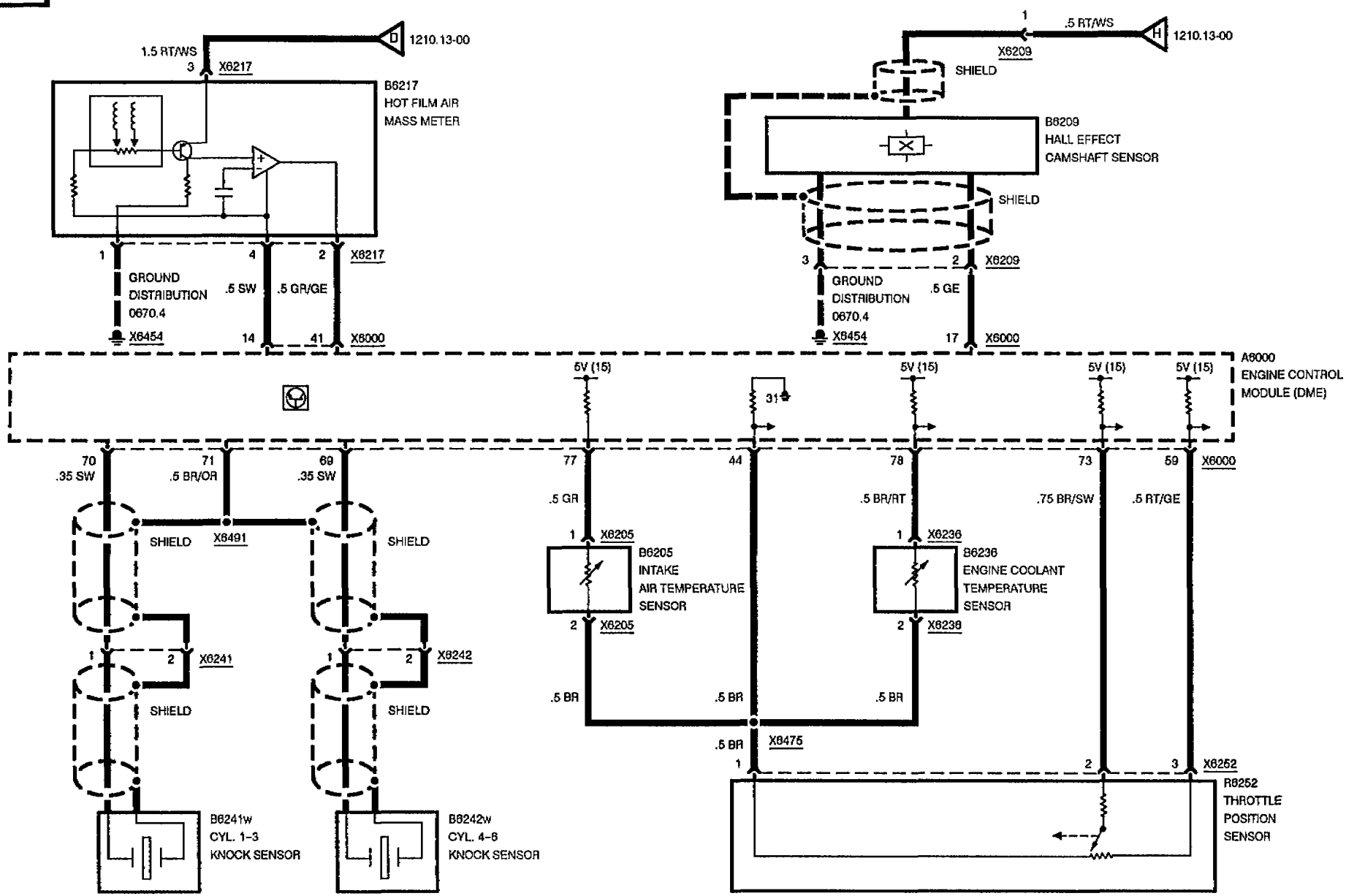

SPARK PLUGS
4 GN
X6831
1 GN
1 GN
1 GN
1 GN
1 GN
1 GN
3 X6151
T6151
CYL. 1 IGNITION COIL
1 2 X6151
3 X6152
T6152
CYL. 2 IGNITION COIL
2 1 X6152
3 X6153
T6153
CYL. 3 IGNITION COIL
1 2 X6153
3 X6154
T6154
CYL. 4 IGNITION COIL
2 1 X6154
3 X6155
T6155
CYL. 5 IGNITION COIL
1 2 X6155
3 X6156
T6156
CYL. 6 IGNITION COIL
2 1 X6156
1 SW
1 BR
1 BR
1 SW
GROUND DISTRIBUTION 0670.4
X6456
X6901
X6902
X6903
X6904
X6905
X6906
1.5 SW/WS
1.5 SW/RT
1.5 SW/GE
1.5 SW/BL
1.5 SW/GN
1.5 SW/VI
GROUND DISTRIBUTION 0670.4
2.5 BR
W6150
SHIELD UP TO 10mm BEFORE IGNITION COILS
55
50
51
52
23
25
24
X6000
A6000
ENGINE CONTROL MODULE (DME)
31
X6454

ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

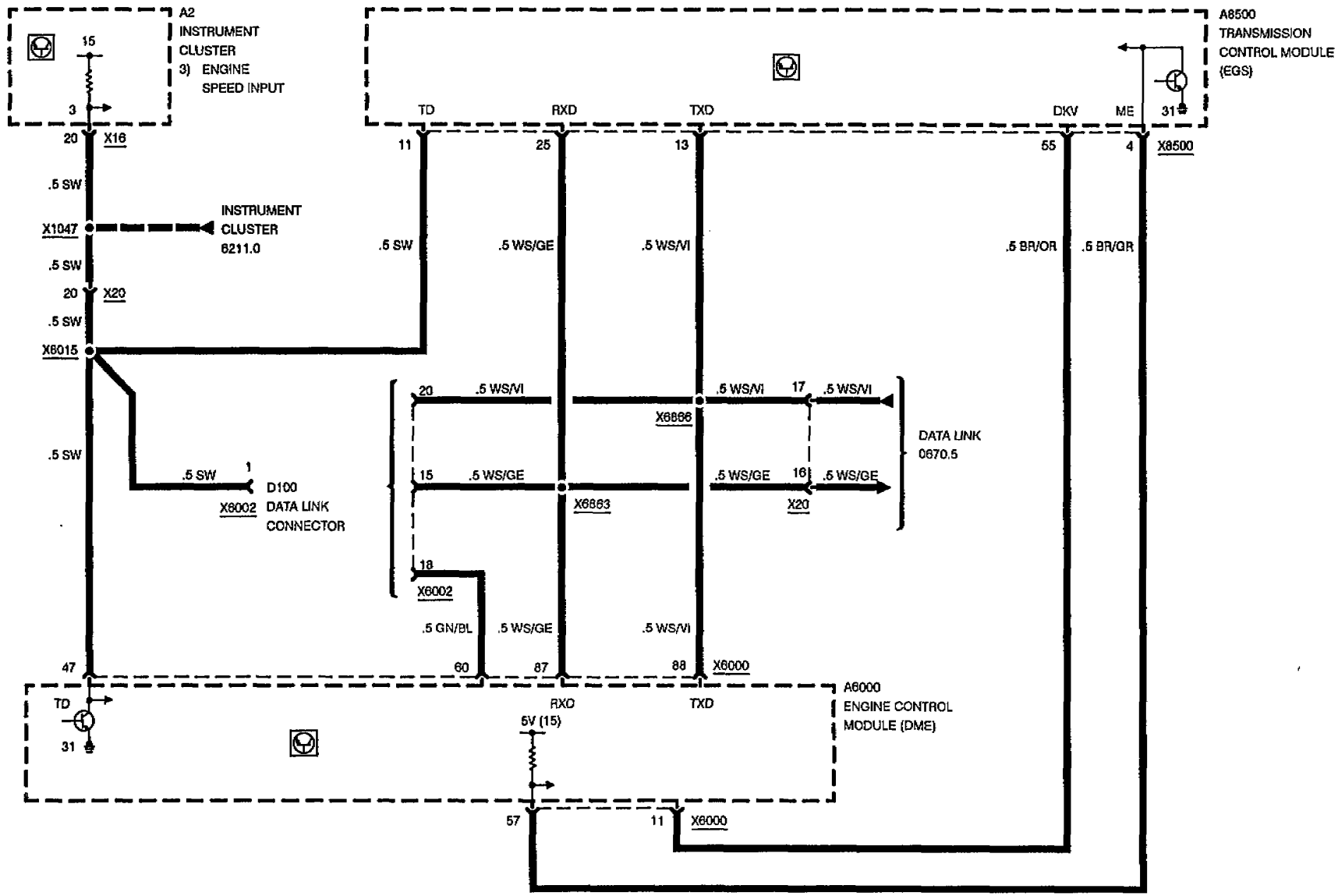


BMW 3 — ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

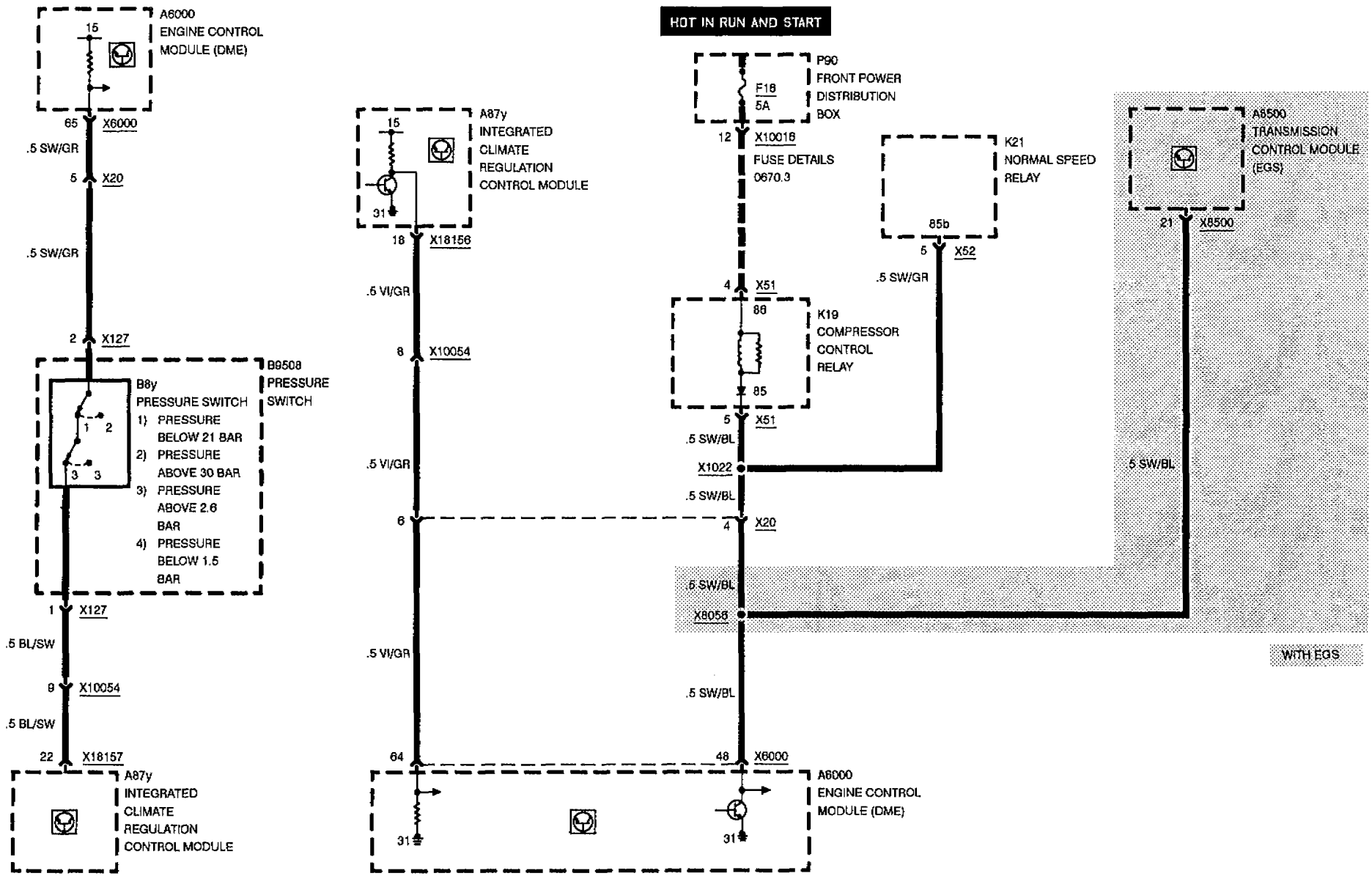


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

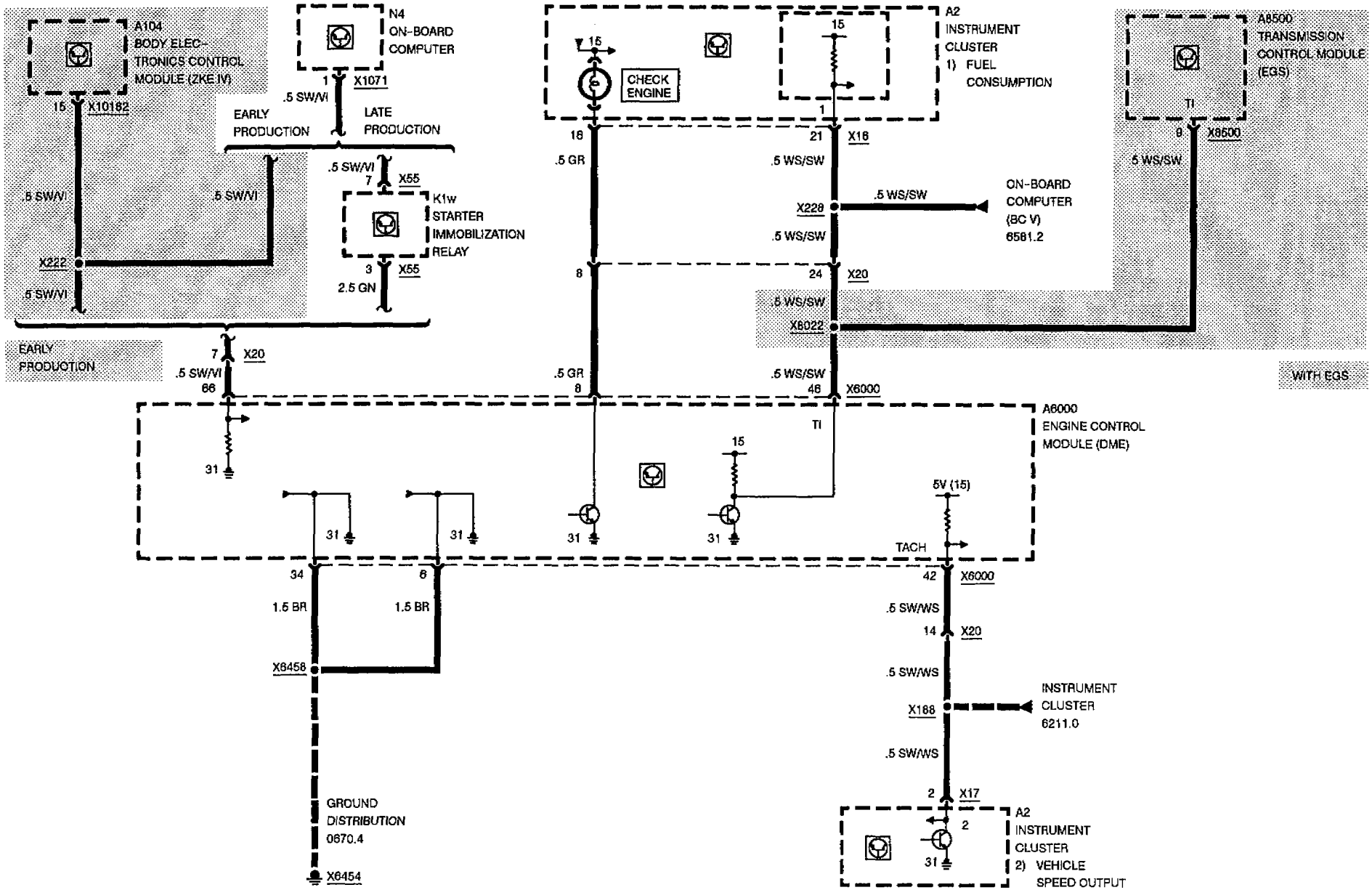
DATA LINK



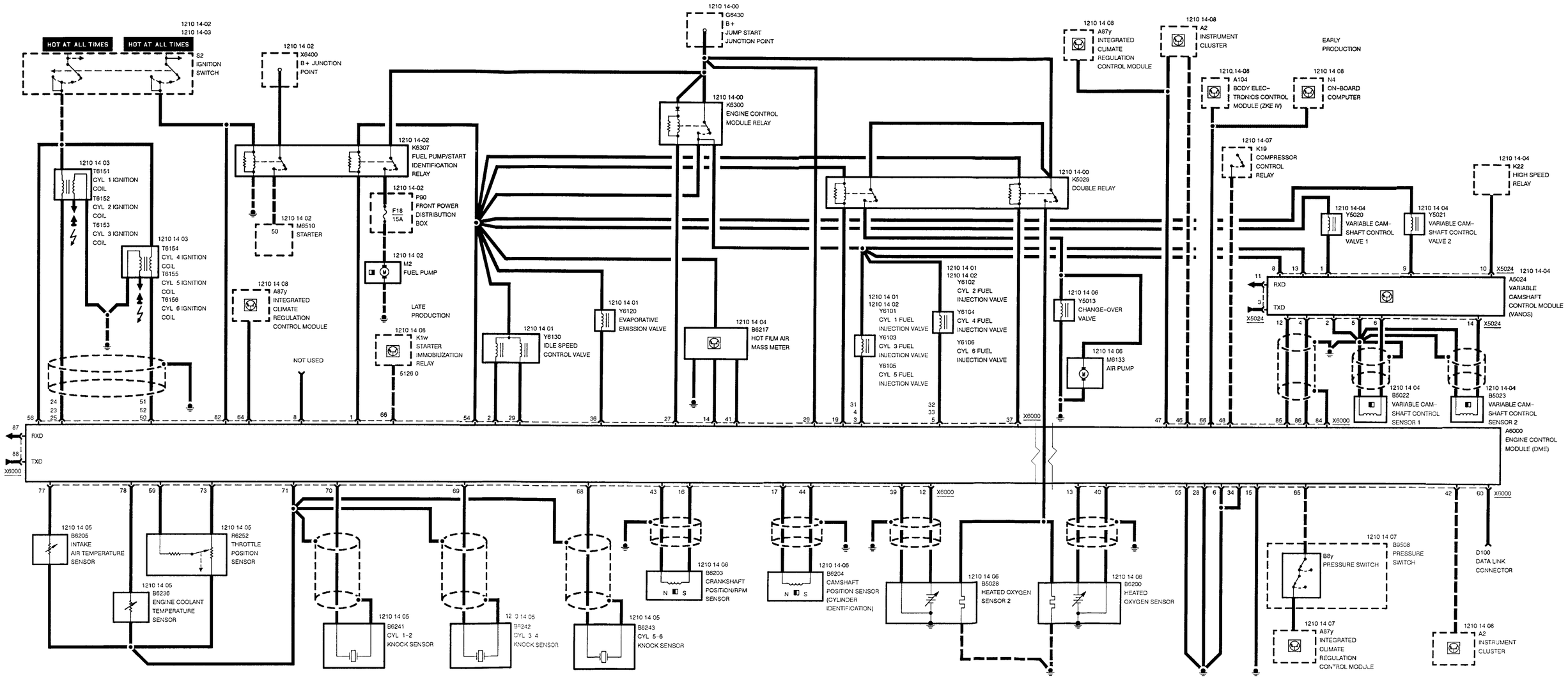
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

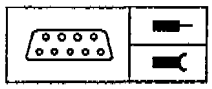


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



12/94 1210 14 1994
12/94 1210.14 1994





Pin Assignments

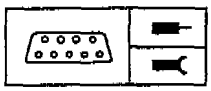
X5024

Pin	Type	Description/Function	Connection
1	A	Valve 1 (delayed setting)	Variable camshaft control valve 1
2	M	Ground	Ground
3	A	RxD diagnostic data link	Data link connector
4	E/A	CAN-High signal	Engine control module (DME)
5	M	Ground	Ground
6	E	Sensor 1 (output NW)	Variable camshaft control sensor 1
7		Not used	
8	E	Battery voltage	DME-relay
9	A	Valve 2 (advanced setting)	Variable camshaft control valve 2
10	E	Fan signal	High speed relay (auxiliary fan)
11	E/A	TxD diagnostic data link	Data link connector
12	E/A	CAN-Low signal	Engine control module (DME)
13	E	Battery voltage	DME-relay
14	E	Sensor 2 (input NW)	Variable camshaft control sensor 2
15		Not used	

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay
2	A	Close winding control	Idle speed control valve
3	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
4	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	M	Ground, full injection output stages	Ground
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	

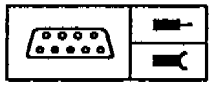
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
12	E	Oxygen sensor II signal	Heated oxygen sensor
13	E	Oxygen sensor I signal	Heated oxygen sensor
14	M	Ground, hot film air mass meter	Hot film air mass meter
15	E	Ignition control signal	Ground
16	E	Crankshaft position/RPM sensor signal	Crankshaft position/RPM sensor
17	E	Camshaft position sensor signal	Hall effect camshaft sensor
18		Not used	
19	A	Secondary air pump	Double relay
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	Jump start junction point
27	A	DME relay signal	Engine control module relay
28	M	Ground	Ground
29	A	Opening winding control	Idle speed control valve
30		Not used	
31	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
32	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
33	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
34	M	Ground, output stages	Ground
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Double relay
38		Not used	
39	M	Ground, oxygen sensor II	Heated oxygen sensor
40	M	Ground, oxygen sensor I	Heated oxygen sensor
41	E	Air mass meter signal	Hot film air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	M	Ground, crankshaft sensor	Crankshaft position/RPM sensor

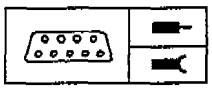
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
44	M	Ground, camshaft sensor	Hall effect camshaft sensor
45		Not used	
46	A	Ti-measurement signal (fuel consumption)	Instrument cluster
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	E	A/C compressor signal	Compressor control relay
49		Not used	
50	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
51	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
52	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
53		Not used	
54	E	Battery voltage	Engine control module (DME)
55	M	Ground, ignition	Ground
56	E	Voltage, terminal 15	Ignition switch
57		Not used	
58		Not used	
59	A	5V voltage supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	A/C signal	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch
66	E	Drive away protection signal	On-board computer/Body electronics control module (early production)
66	E	Drive away protection signal	Starter immobilization relay (late production)
67		Not used	
68	E	Knock sensor signal	Cyl. 5-6 knock sensor
69	E	Knock sensor signal	Cyl. 3-4 knock sensor
70	E	Knock sensor signal	Cyl. 1-2 knock sensor
71	M	Ground, knock sensors and shields	Knock sensors and shields
72		Not used	
73	E	Throttle position	Throttle position sensor

E = Input, A = Output, M = Ground



Pin Assignments

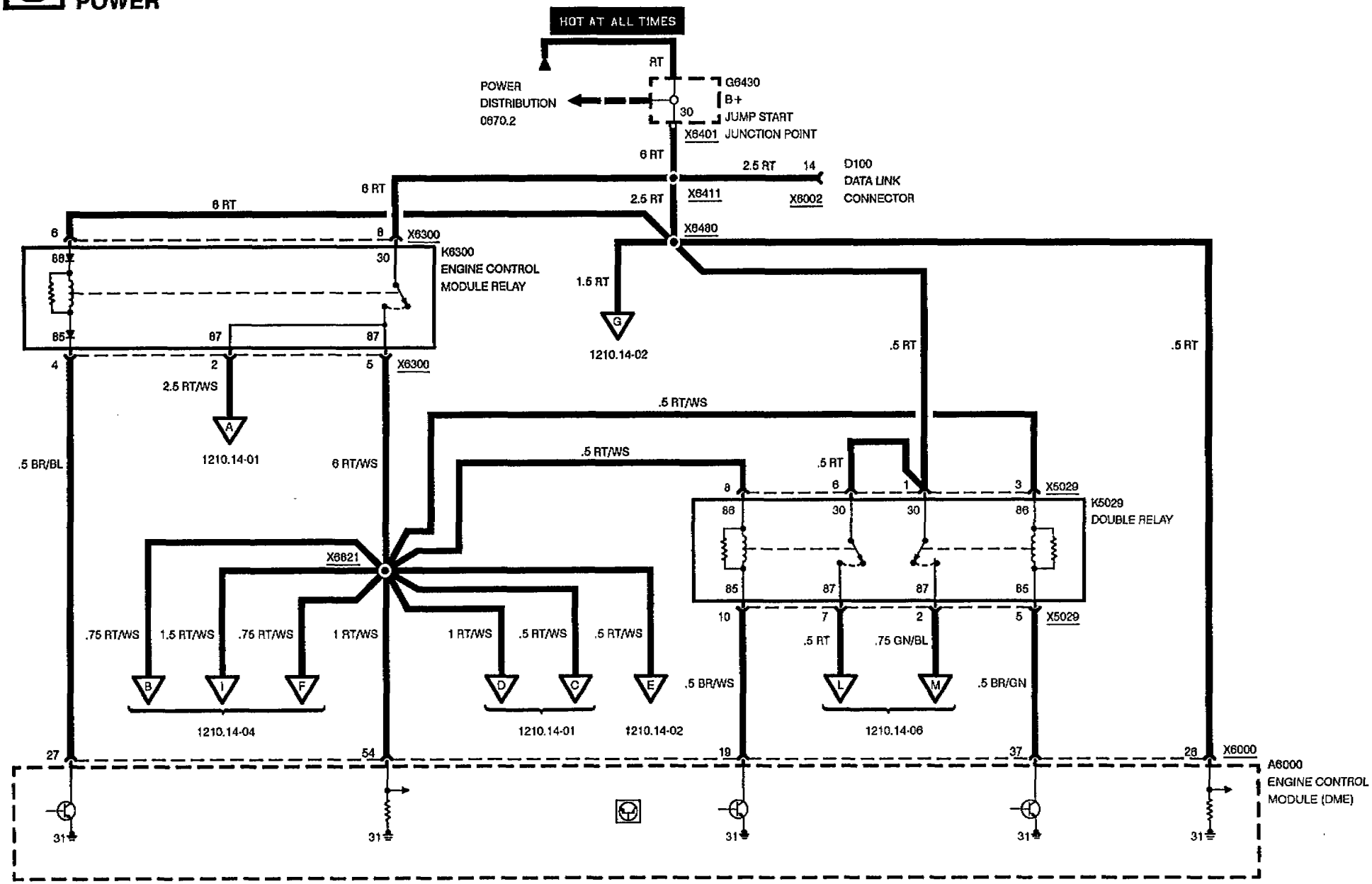
Pin	Type	Description/Function	Connection
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81		Not used	
82	E	Start revolution signal	Ignition switch
83		Not used	
84	M	Shield	Ground
85	E/A	CAN-Low signal	Variable camshaft control module
86	E/A	CAN-High signal	Variable camshaft control module
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

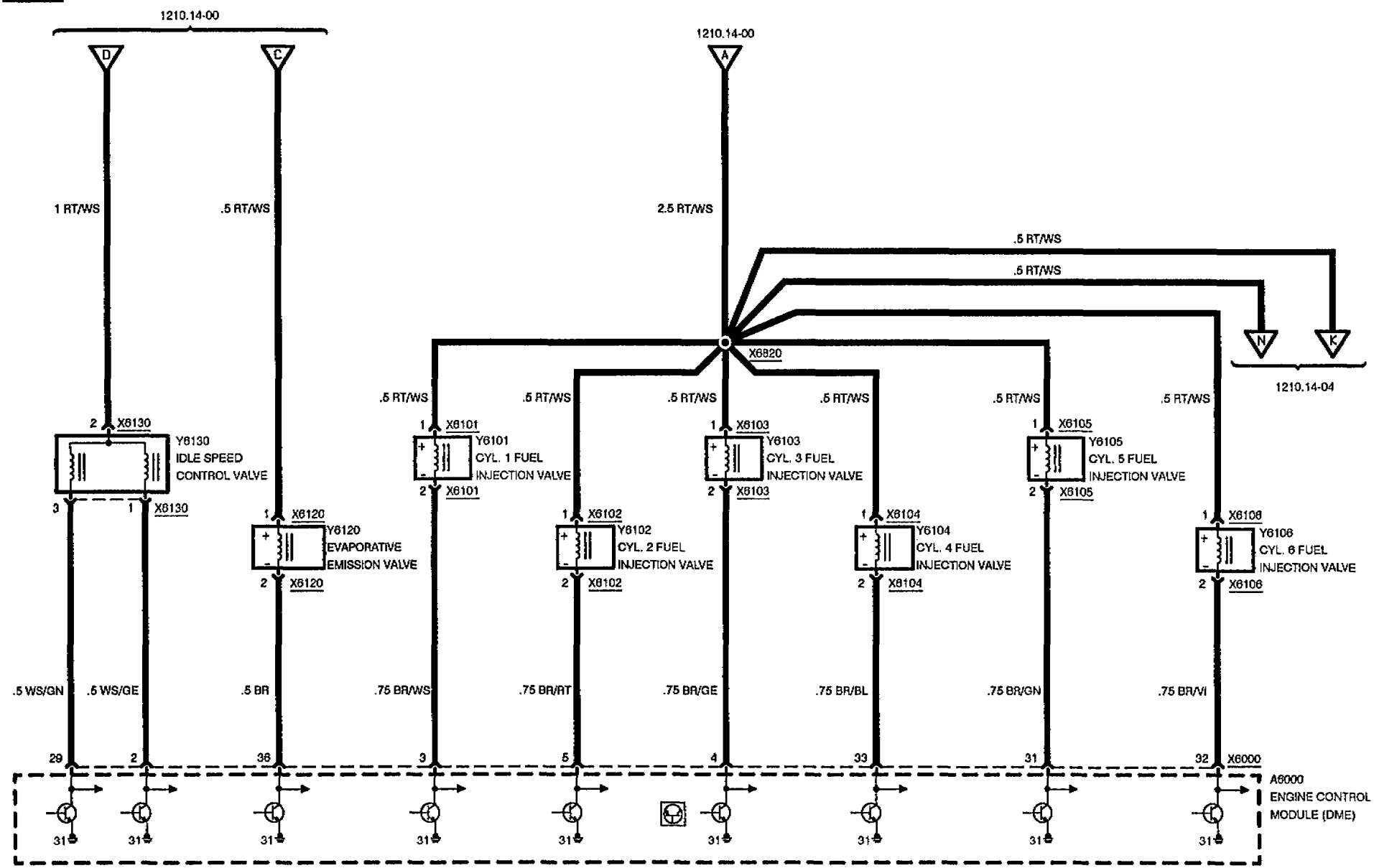
CDN

POWER



ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

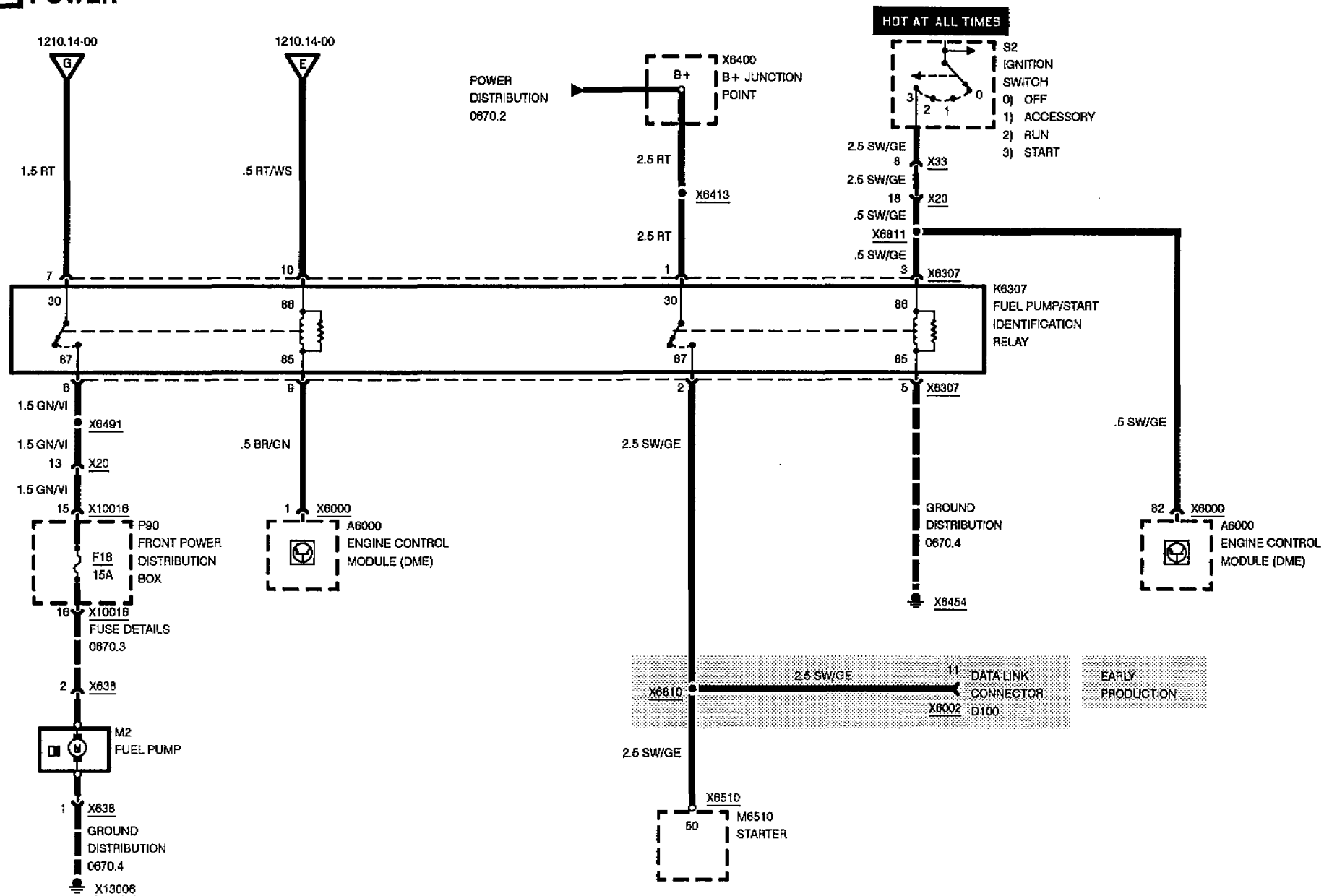
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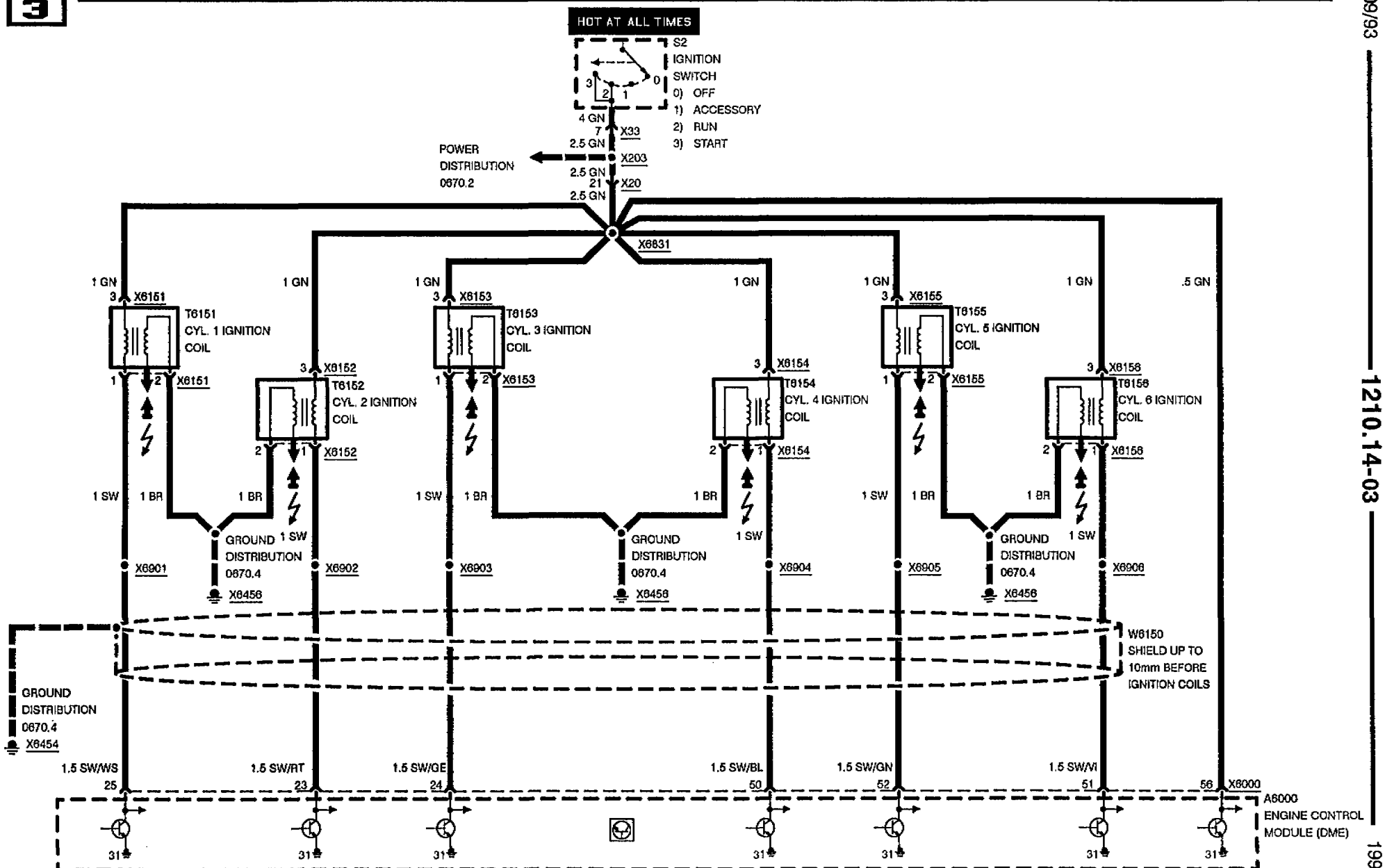
ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

CDN

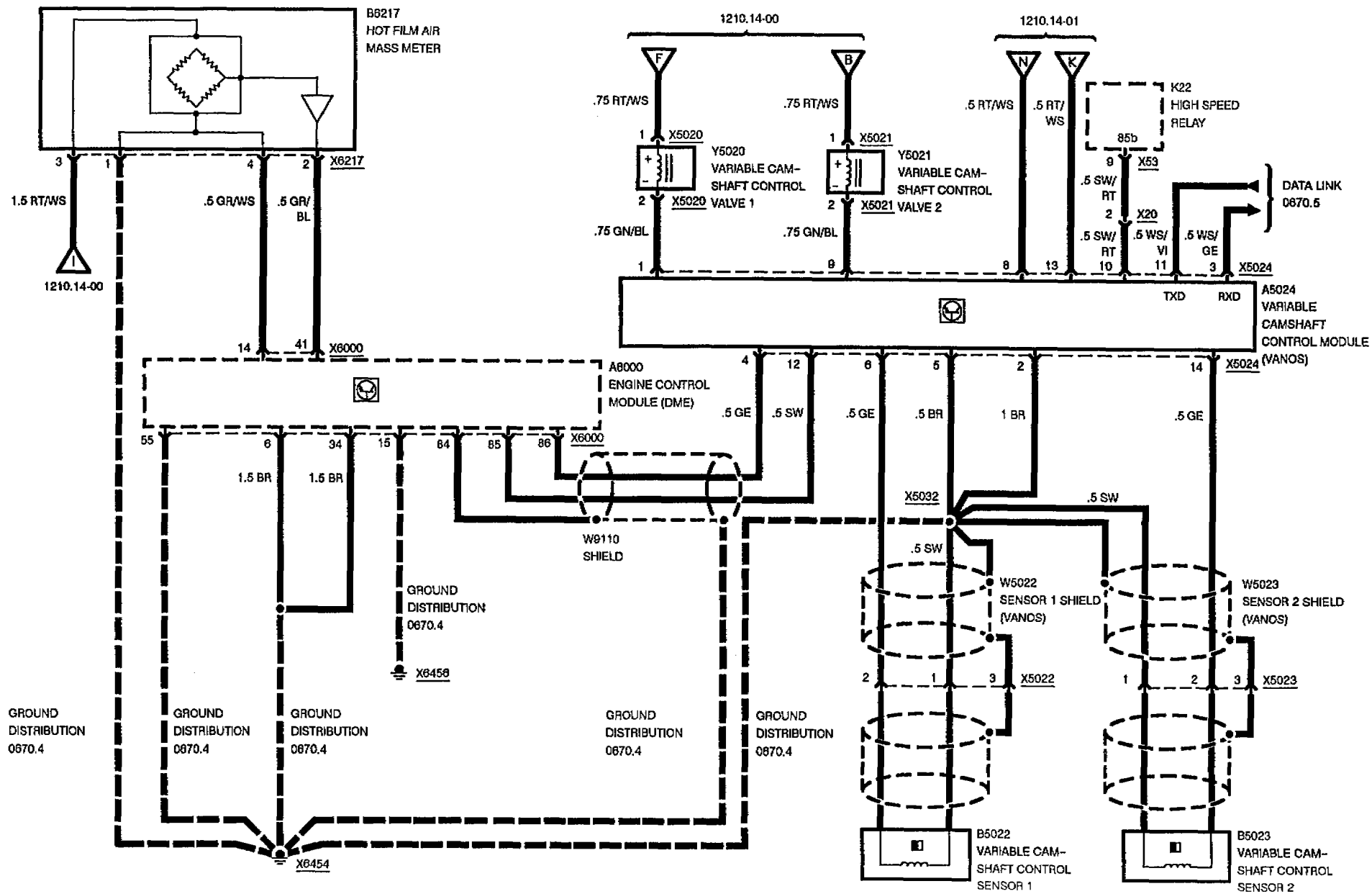
POWER



ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

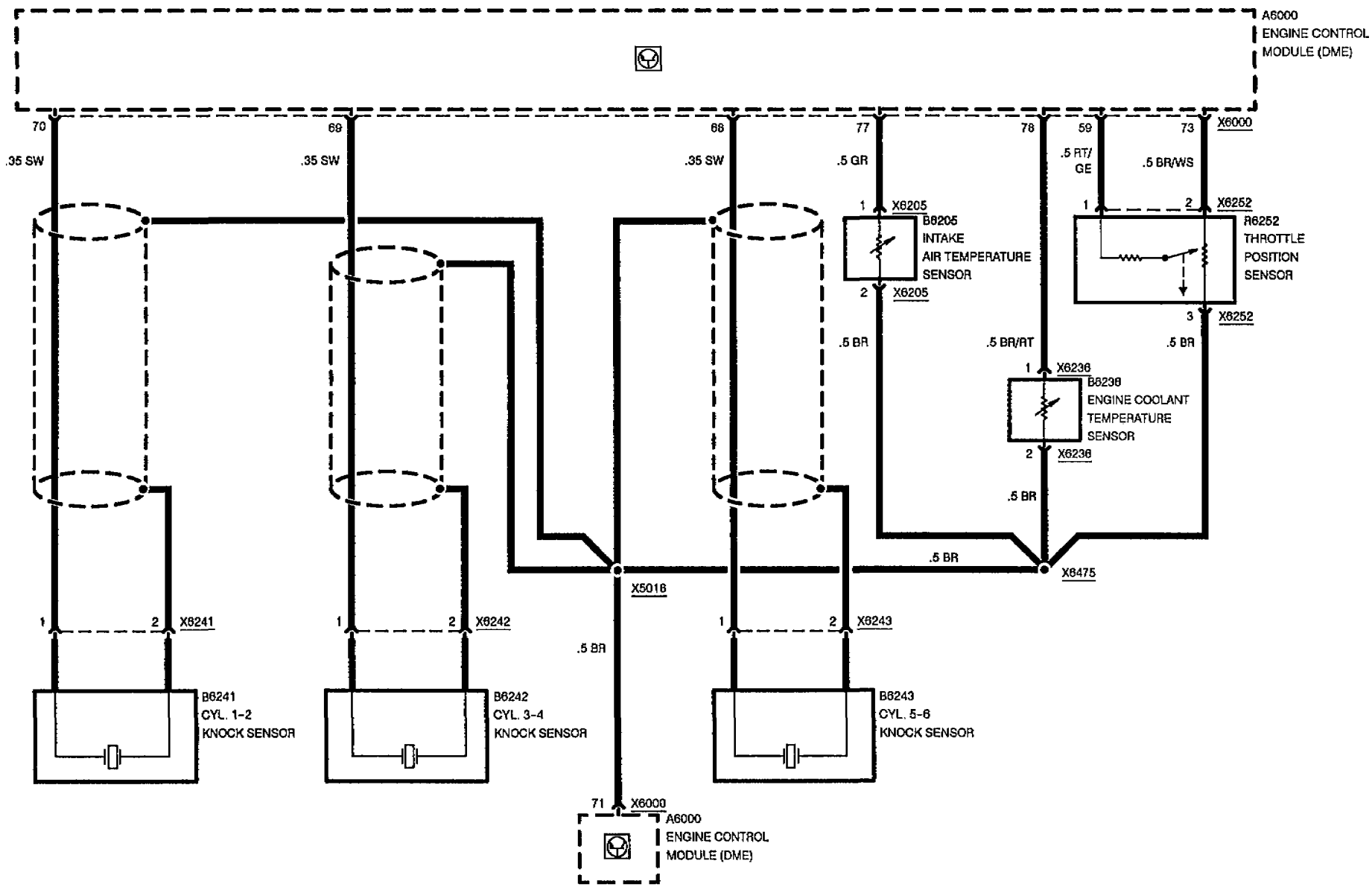


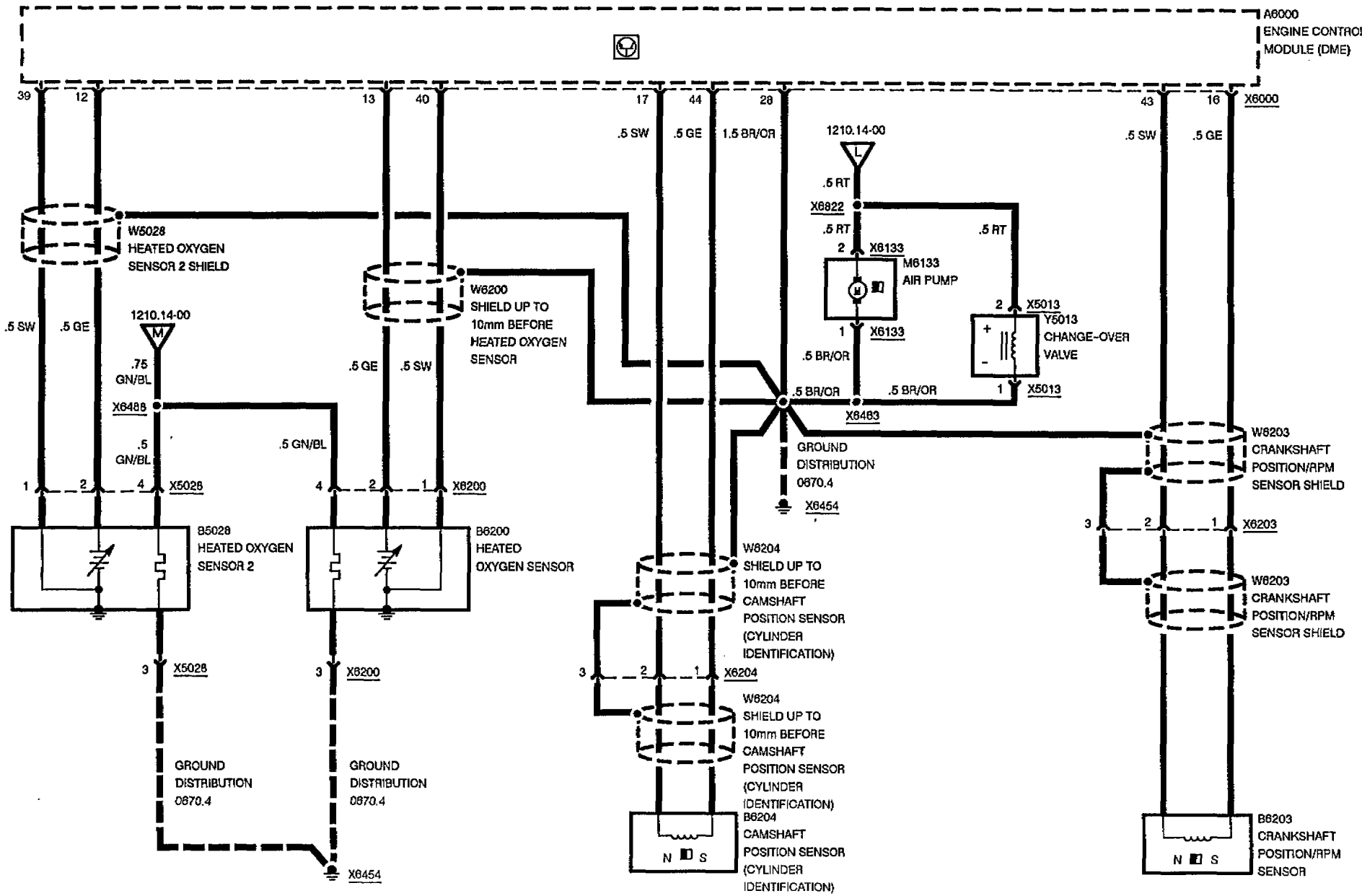
ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)



ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

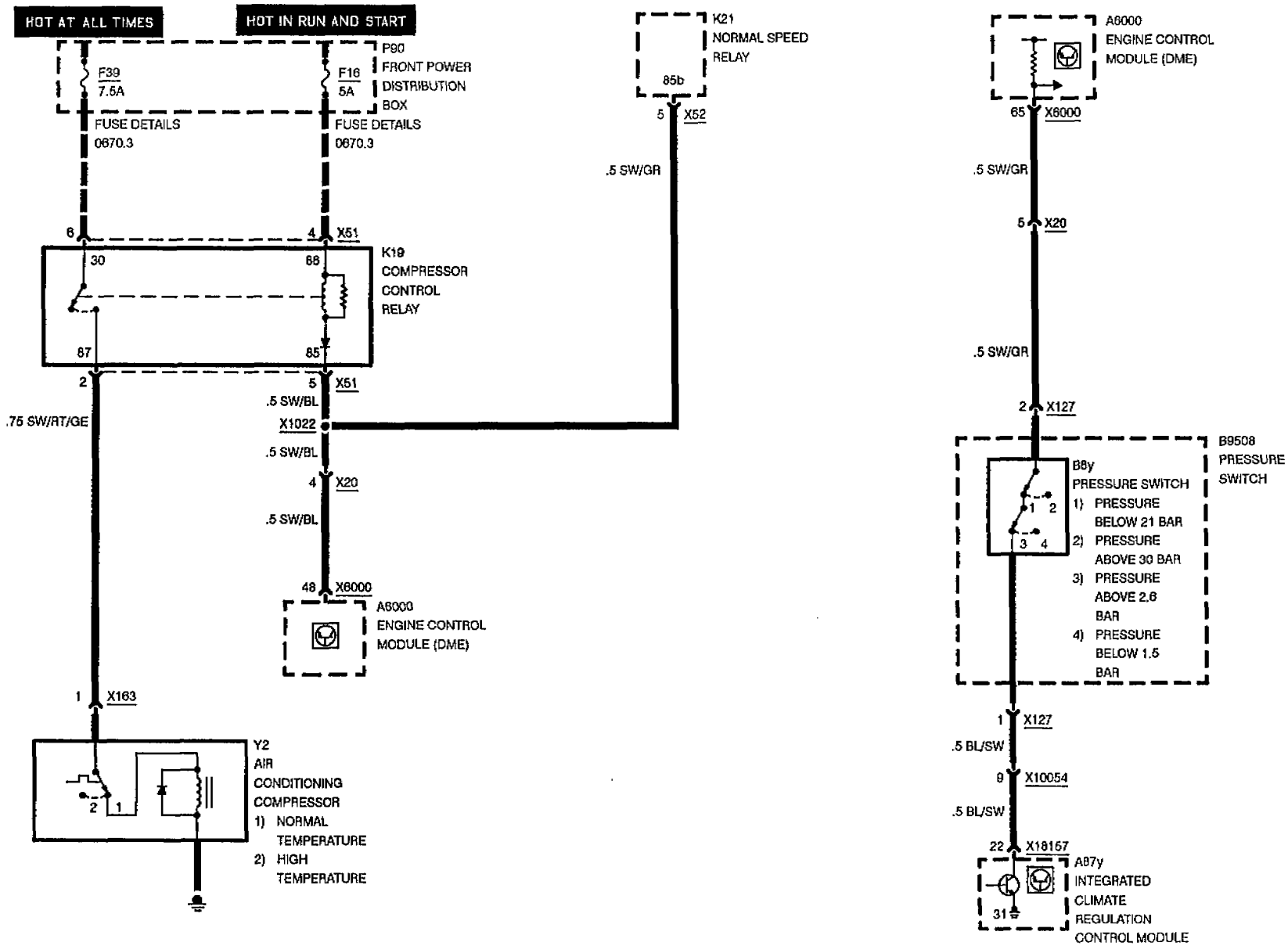
CDN



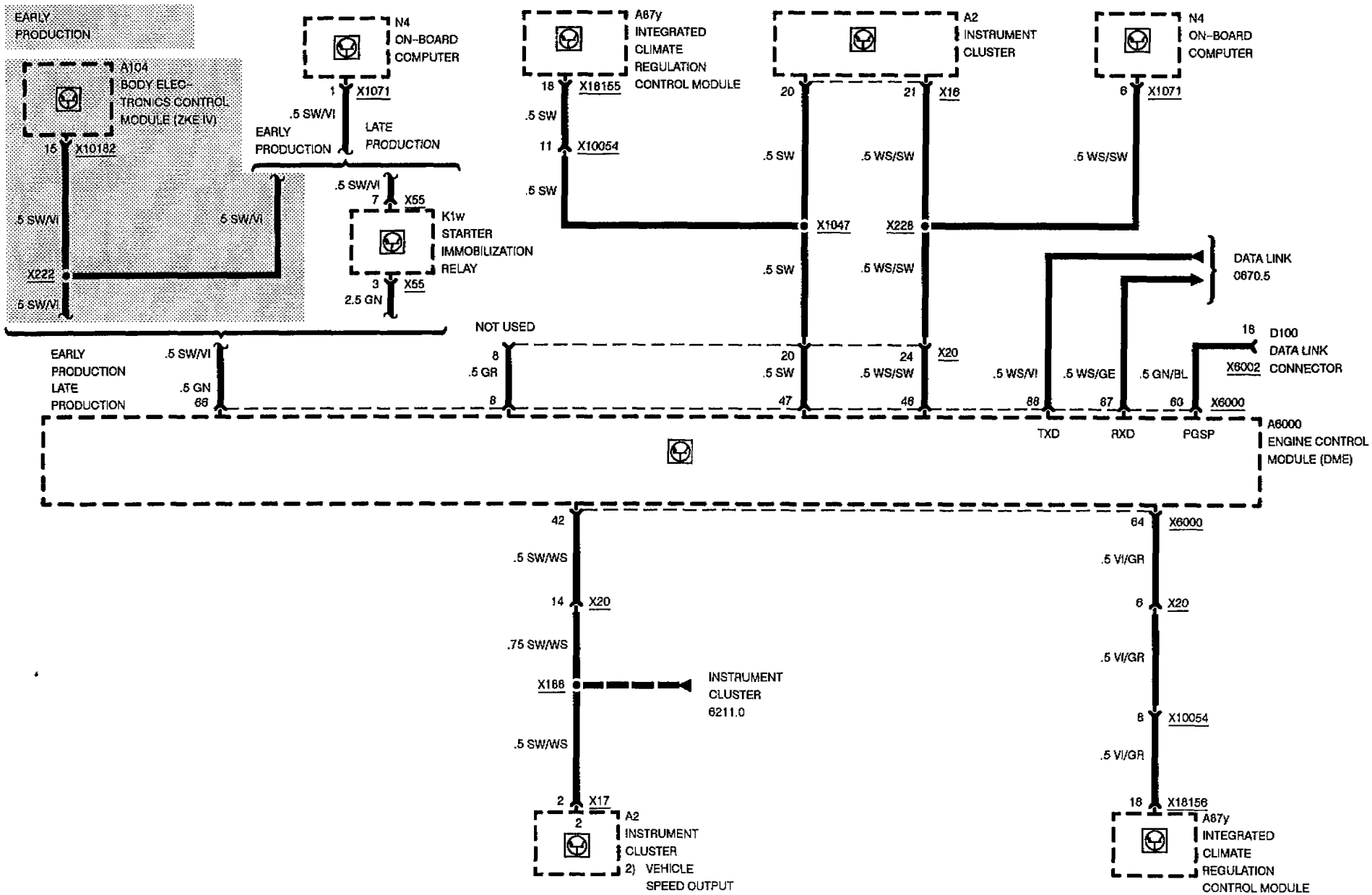

A6000
ENGINE CONTROL MODULE (DME)
39
12
13
40
17
44
28
43
16
X6000
.5 SW
.5 GE
1.5 BR/OR
.5 SW
.5 GE
W5028
HEATED OXYGEN SENSOR 2 SHIELD
W6200
SHIELD UP TO 10mm BEFORE HEATED OXYGEN SENSOR
1210.14-00
.5 SW
.5 GE
.75 GN/BL
X6488
.5 GN/BL
.5 GE
.5 SW
.5 GN/BL
1
2
4
X5028
4
2
1
X6200
B5028
HEATED OXYGEN SENSOR 2
B6200
HEATED OXYGEN SENSOR
3
X5028
3
X6200
GROUND DISTRIBUTION 0870.4
GROUND DISTRIBUTION 0870.4
X6454
1210.14-00
.5 RT
X6822
.5 RT
2
X6133
M6133
AIR PUMP
1
X6133
.5 BR/OR
.5 RT
2
X5013
Y5013
CHANGE-OVER VALVE
1
X5013
.5 BR/OR
.5 BR/OR
X6463
GROUND DISTRIBUTION 0870.4
X6454
W6204
SHIELD UP TO 10mm BEFORE CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
3
2
1
X6204
W6204
SHIELD UP TO 10mm BEFORE CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
B6204
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
N
S
W6203
CRANKSHAFT POSITION/RPM SENSOR SHIELD
3
2
1
X6203
W6203
CRANKSHAFT POSITION/RPM SENSOR SHIELD
B6203
CRANKSHAFT POSITION/RPM SENSOR
N
S

ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

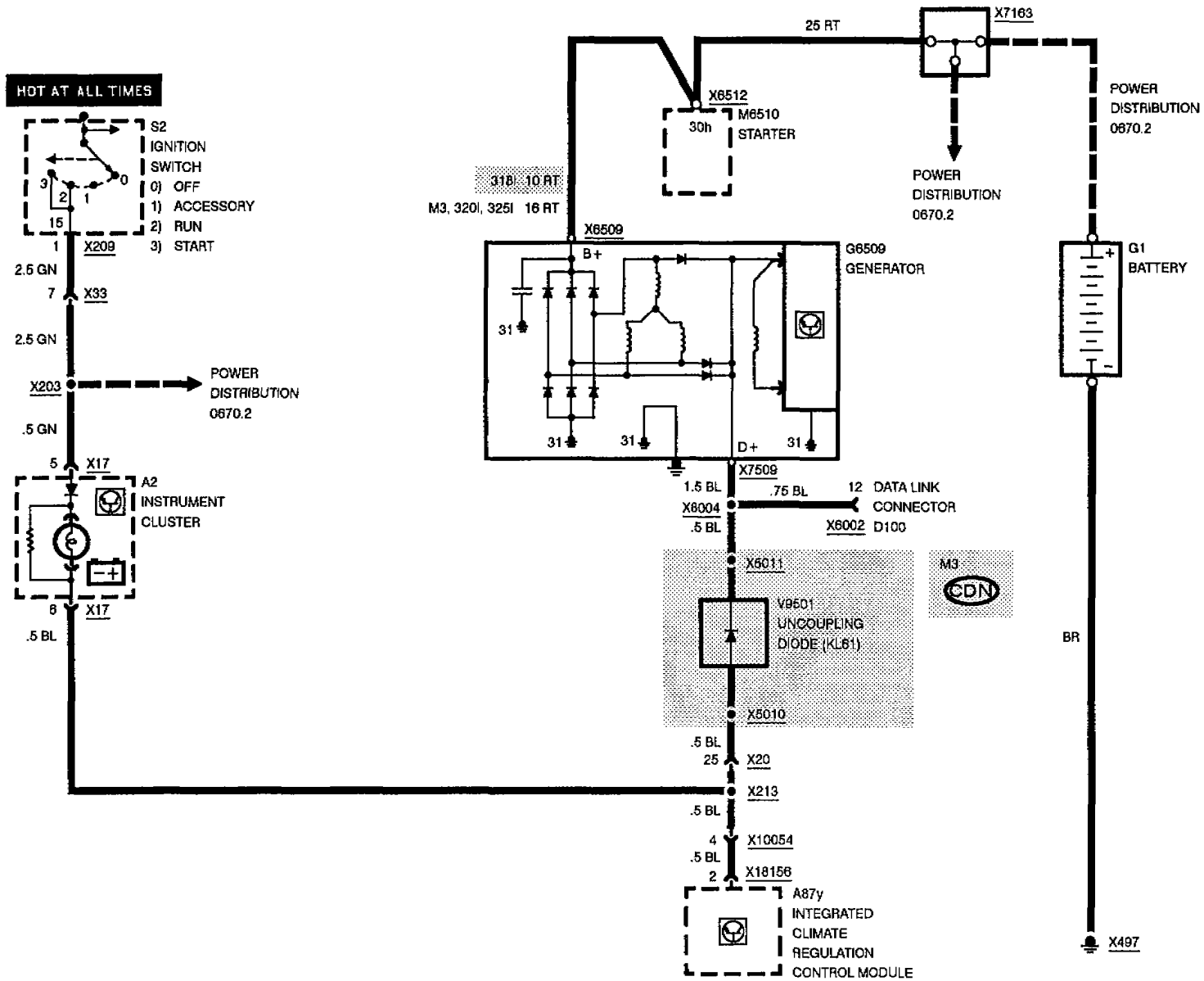
CDN

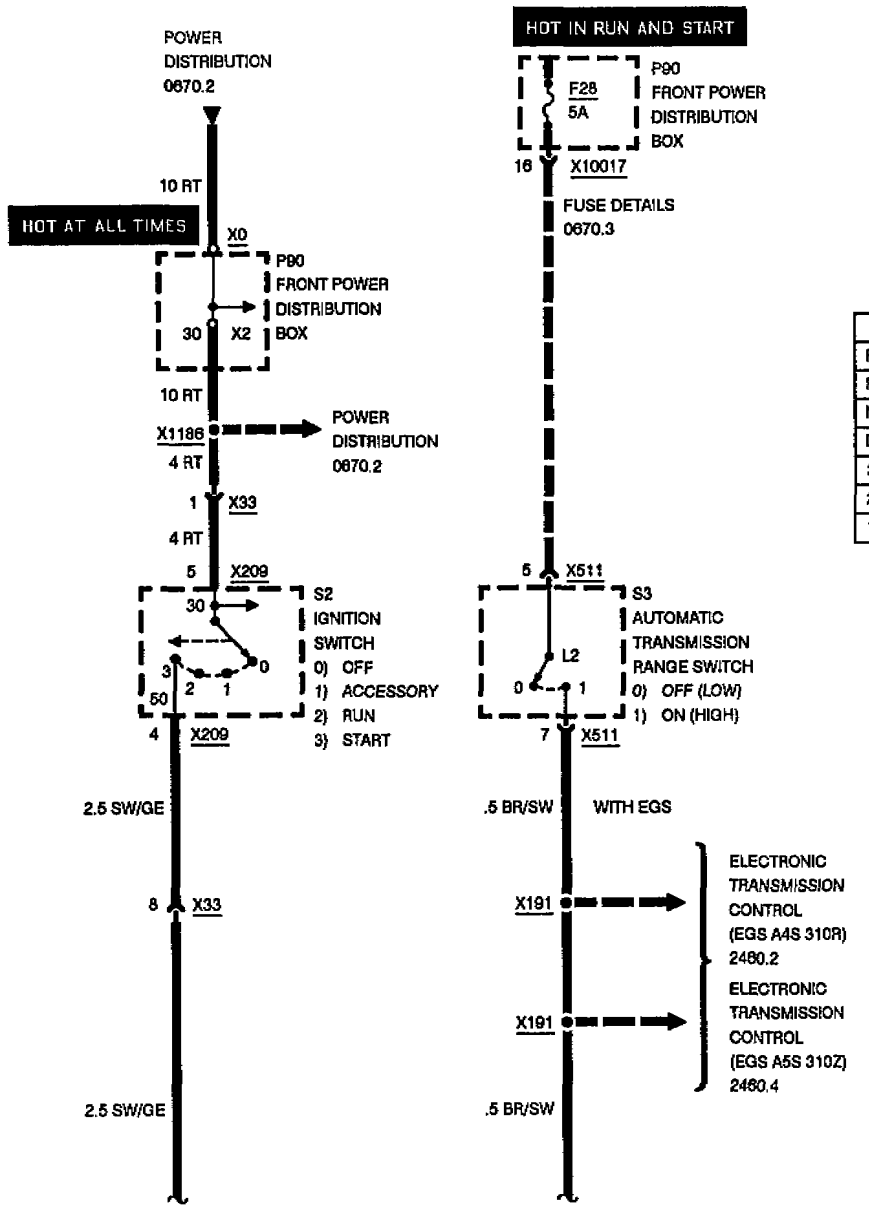


ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)



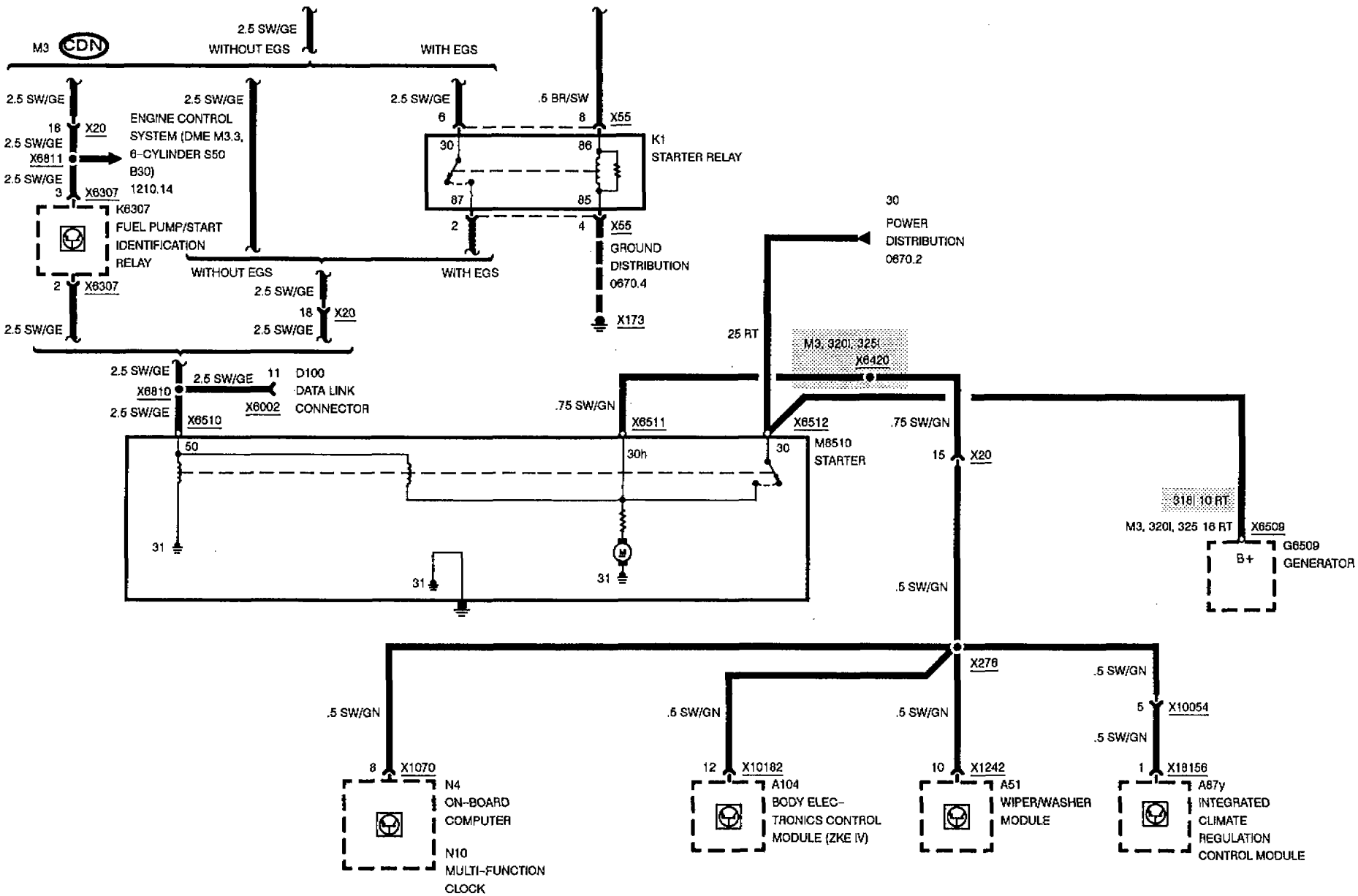
CHARGING SYSTEM

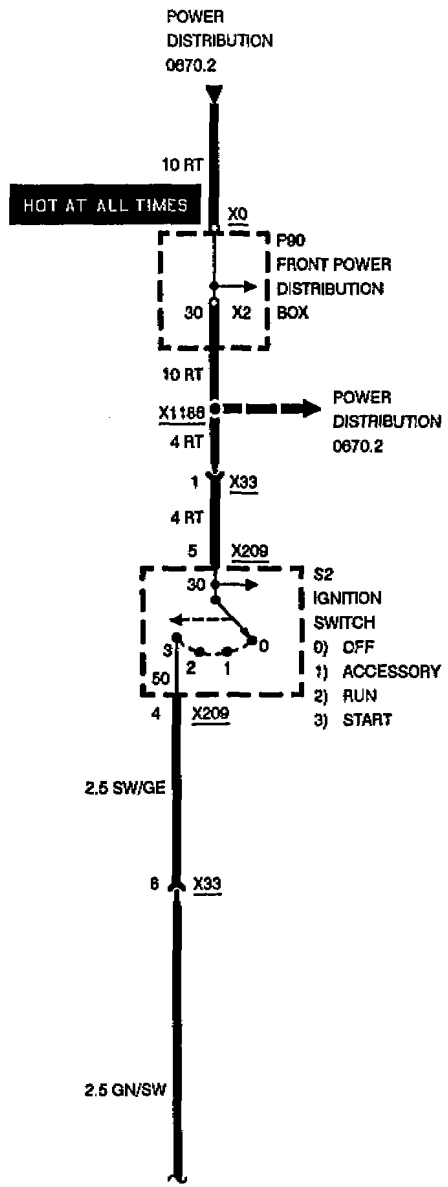


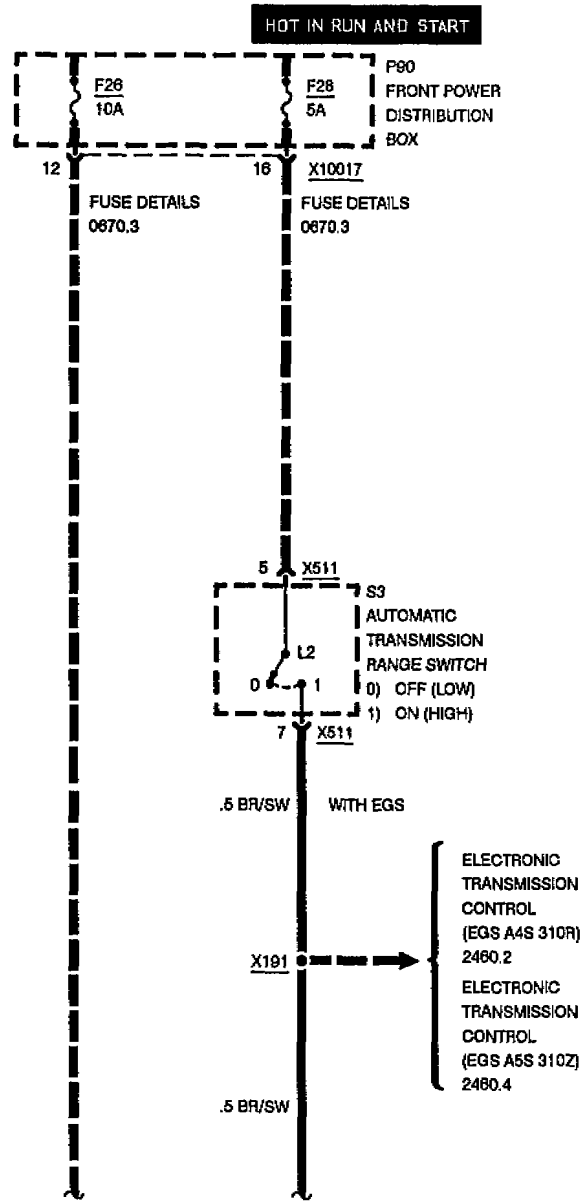


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

EARLY PRODUCTION

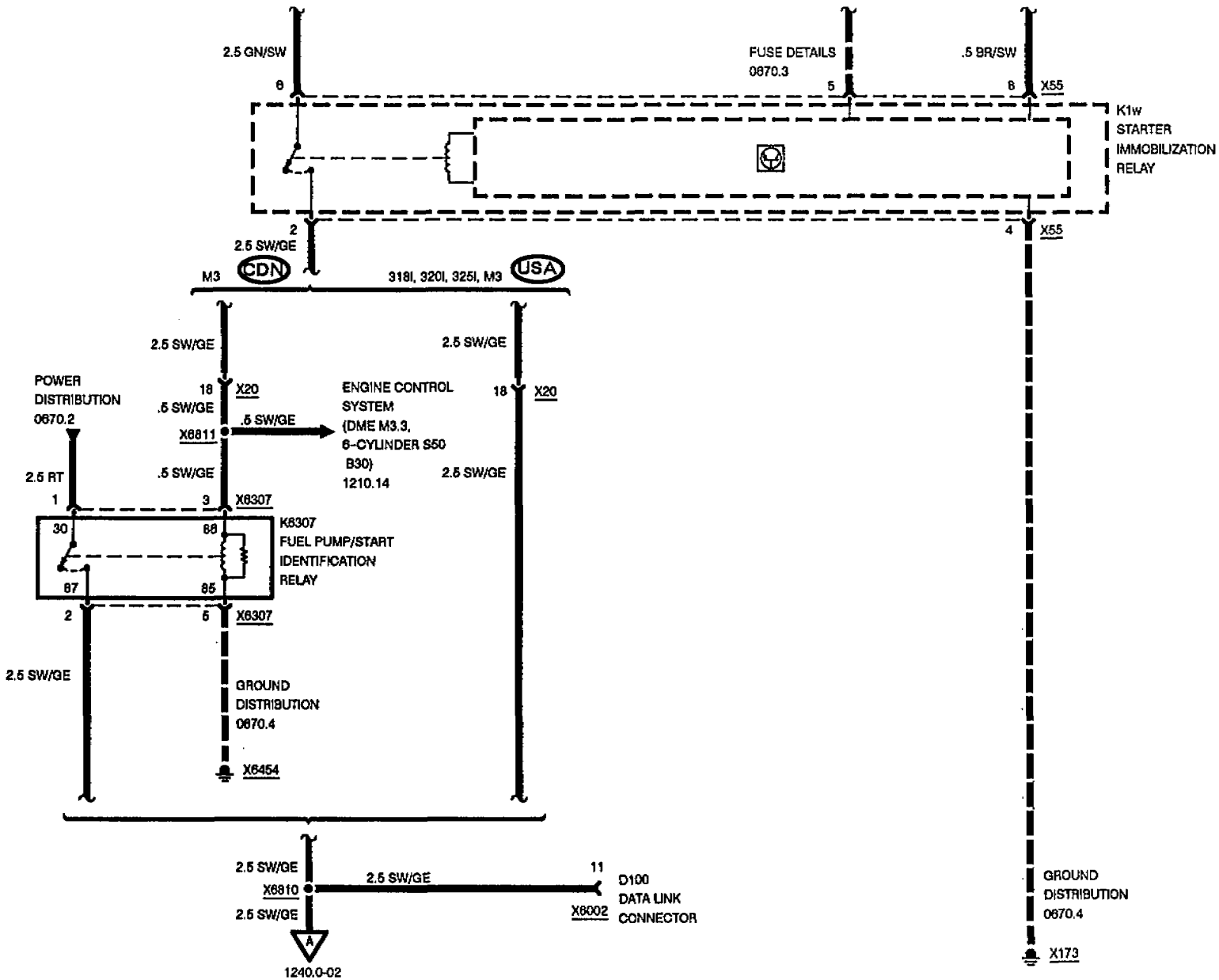


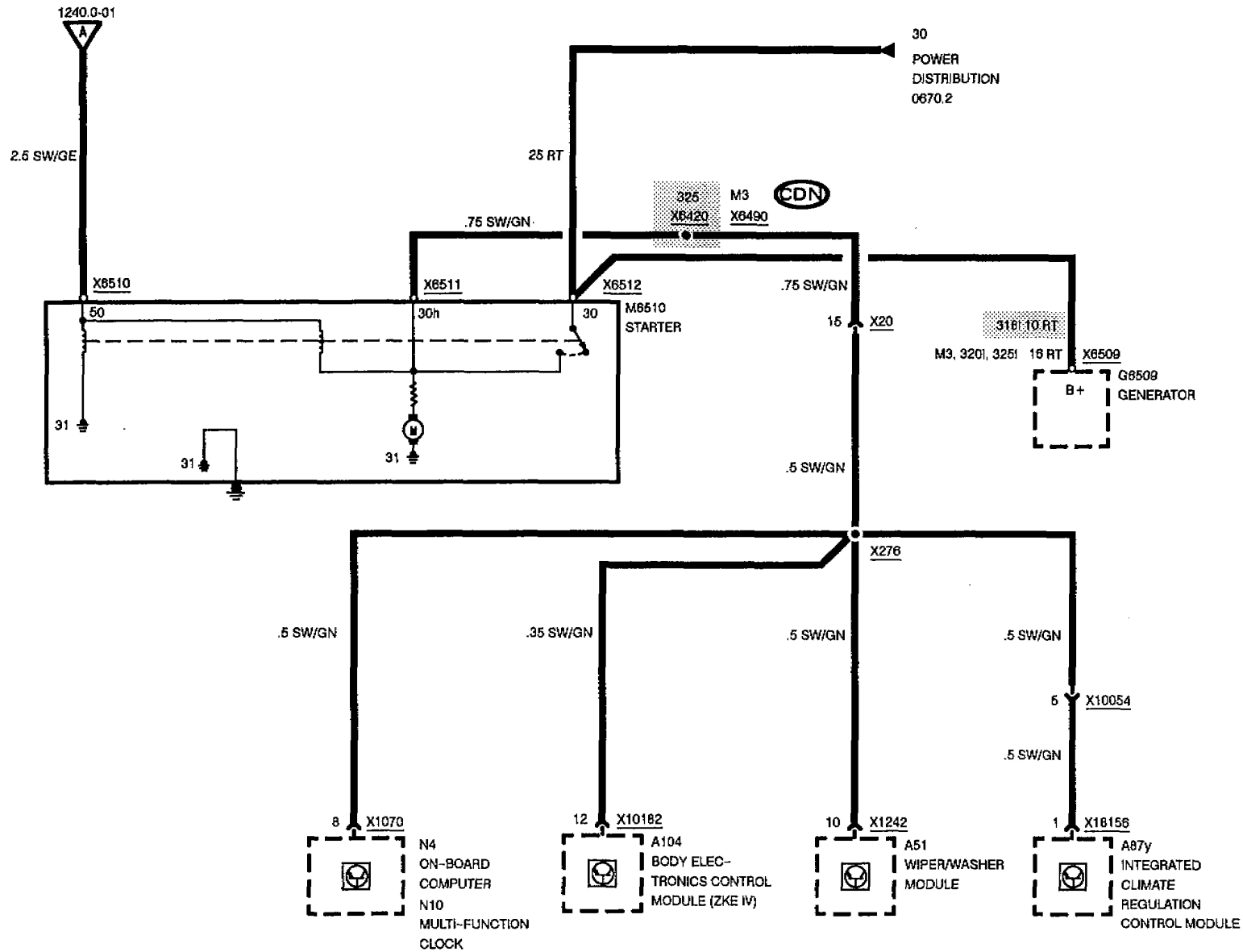


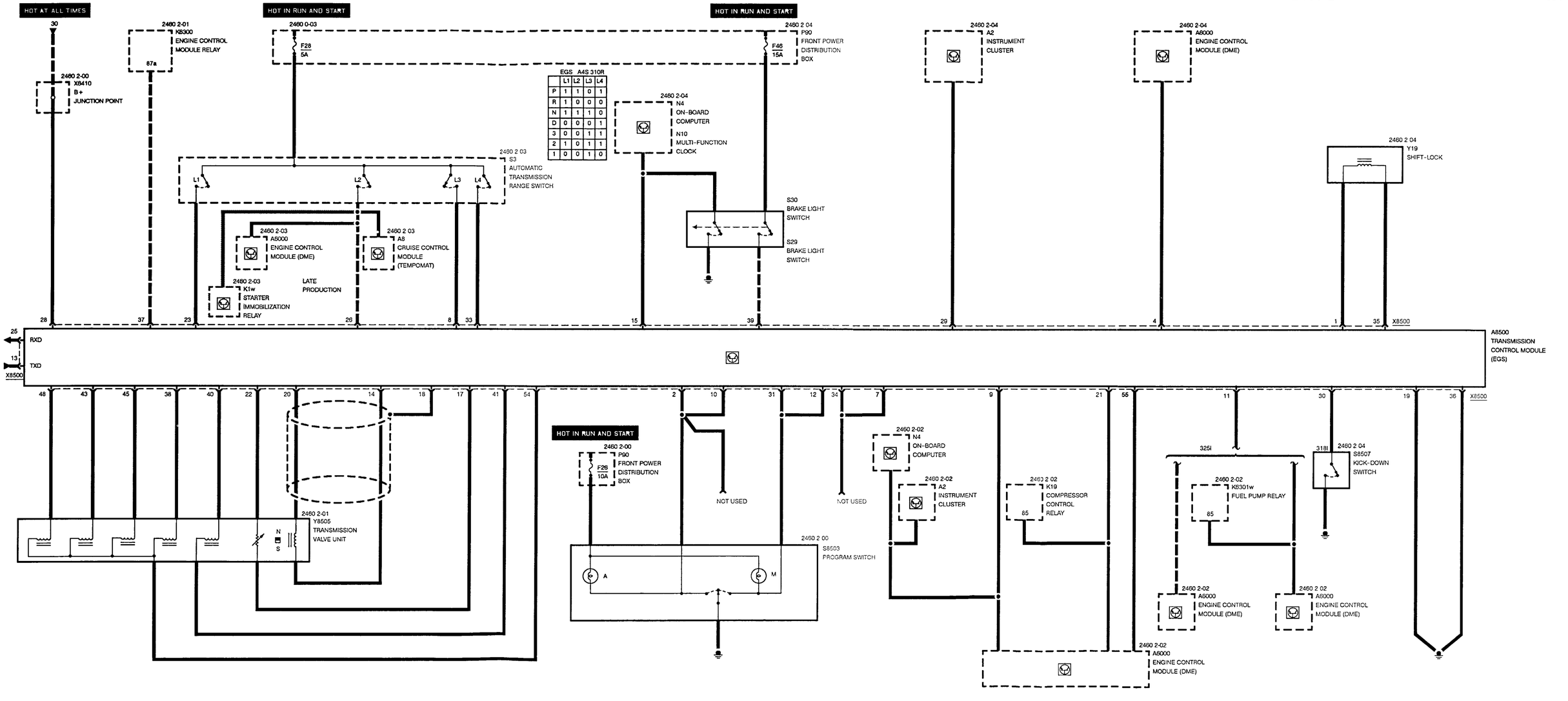


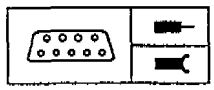
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

LATE PRODUCTION




1240.0-01
A
2.5 SW/GE
25 RT
30
POWER
DISTRIBUTION
0670.2
325
X6420
M3
CDN
X6490
.75 SW/GN
X6510
X6511
X6512
.75 SW/GN
50
30h
30
M6510
STARTER
15
X20
318i 16 RT
M3, 320i, 325i 16 RT
X6509
G6509
GENERATOR
B+
31
31
31
.5 SW/GN
X276
.5 SW/GN
.35 SW/GN
.5 SW/GN
.5 SW/GN
6
X10054
.5 SW/GN
8
X1070
N4
ON-BOARD
COMPUTER
N10
MULTI-FUNCTION
CLOCK
12
X10182
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
10
X1242
A51
WIPER/WASHER
MODULE
1
X16156
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE


HOT AT ALL TIMES
30
2460 2-00
X6410
B+
JUNCTION POINT
2460 2-01
K6300
ENGINE CONTROL
MODULE RELAY
87a
HOT IN RUN AND START
2460 0-03
F28
5A
2460 2 04
P90
FRONT POWER
DISTRIBUTION
BOX
F46
15A
EGS A4S 310R
L1 L2 L3 L4
P 1 1 0 1
R 1 0 0 0
N 1 1 1 0
D 0 0 0 1
3 0 0 1 1
2 1 0 1 1
1 0 0 1 0
2460 2-04
N4
ON-BOARD
COMPUTER
N10
MULTI-FUNCTION
CLOCK
2460 2 03
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L1
L2
L3
L4
2460 2-03
A6000
ENGINE CONTROL
MODULE (DME)
2460 2 03
A8
CRUISE CONTROL
MODULE
(TEMPOMAT)
2460 2-03
K1w
STARTER
IMMOBILIZATION
RELAY
LATE
PRODUCTION
S30
BRAKE LIGHT
SWITCH
S29
BRAKE LIGHT
SWITCH
2460 2-04
A2
INSTRUMENT
CLUSTER
2460 2-04
A6000
ENGINE CONTROL
MODULE (DME)
2460 2 04
Y19
SHIFT-LOCK
28 37 23 26 8 33 15 39 29 4 1 35 X8500
25 RXD
13 TXD
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
48 43 45 38 40 22 20 14 18 17 41 54
2460 2-01
Y8505
TRANSMISSION
VALVE UNIT
N
S
HOT IN RUN AND START
2460 2-00
F26
10A
P90
FRONT POWER
DISTRIBUTION
BOX
2 10 31 12 34 7 9 21 55 11 30 19 36 X8500
NOT USED
NOT USED
2460 2-02
N4
ON-BOARD
COMPUTER
2460 2-02
A2
INSTRUMENT
CLUSTER
2460 2 02
K19
COMPRESSOR
CONTROL
RELAY
85
325i
318i
2460 2 04
S8507
KICK-DOWN
SWITCH
2460 2-02
K6301w
FUEL PUMP RELAY
85
2460 2 00
S8503
PROGRAM SWITCH
A
M
2460 2-02
A6000
ENGINE CONTROL
MODULE (DME)
2460 2 02
A6000
ENGINE CONTROL
MODULE (DME)
2460 2-02
A6000
ENGINE CONTROL
MODULE (DME)

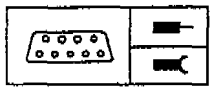


Pin Assignments

X8500

Pin	Type	Description/Function	Connection
1	A	Shift lock solenoid control	Shift lock
2	E	Automatic mode signal	Program switch
3		Not used	
4	A	Ignition timing intervention	Engine control module (DME)
5		Not used	
6		Not used	
7	A	S-program indication	Not used
8	E	Gear range signal L3	Automatic transmission range switch
9	E	Ti-measurement signal (fuel consumption)	Engine control module (DME)
10	A	A-program indication	Program switch
11	E	Cyl. 1-6 fuel pump relay control	Engine control module (DME)
12	A	M-program indication	Program switch
13	E/A	TxD diagnostic data link	Data link connector
14	E	Output speed (–)	Transmission valve unit
15	E	Brake switch test signal	Brake light switch
16		Not used	
17	E	Oil temperature signal (analog ground)	Transmission valve unit
18	A	Shield for speed sensor	Transmission valve unit shield
19	M	Ground, power	Ground point
20	E	Output speed (+)	Transmission valve unit
21	E	A/C compressor ON-signal	Engine control module (DME)
22	E	Oil temperature signal (+)	Transmission valve unit
23	E	Gear range signal L1	Automatic transmission range switch
24		Not used	
25	A	RxD diagnostic data link	Data link connector
26	E	Gear range signal L2	Automatic transmission range switch
27		Not used	
28	E	Battery voltage	B+ junction point
29	A	Fault indicator signal	Instrument cluster
30	E	Kick-down signal	Kick-down switch

E = Input, A = Output, M = Ground



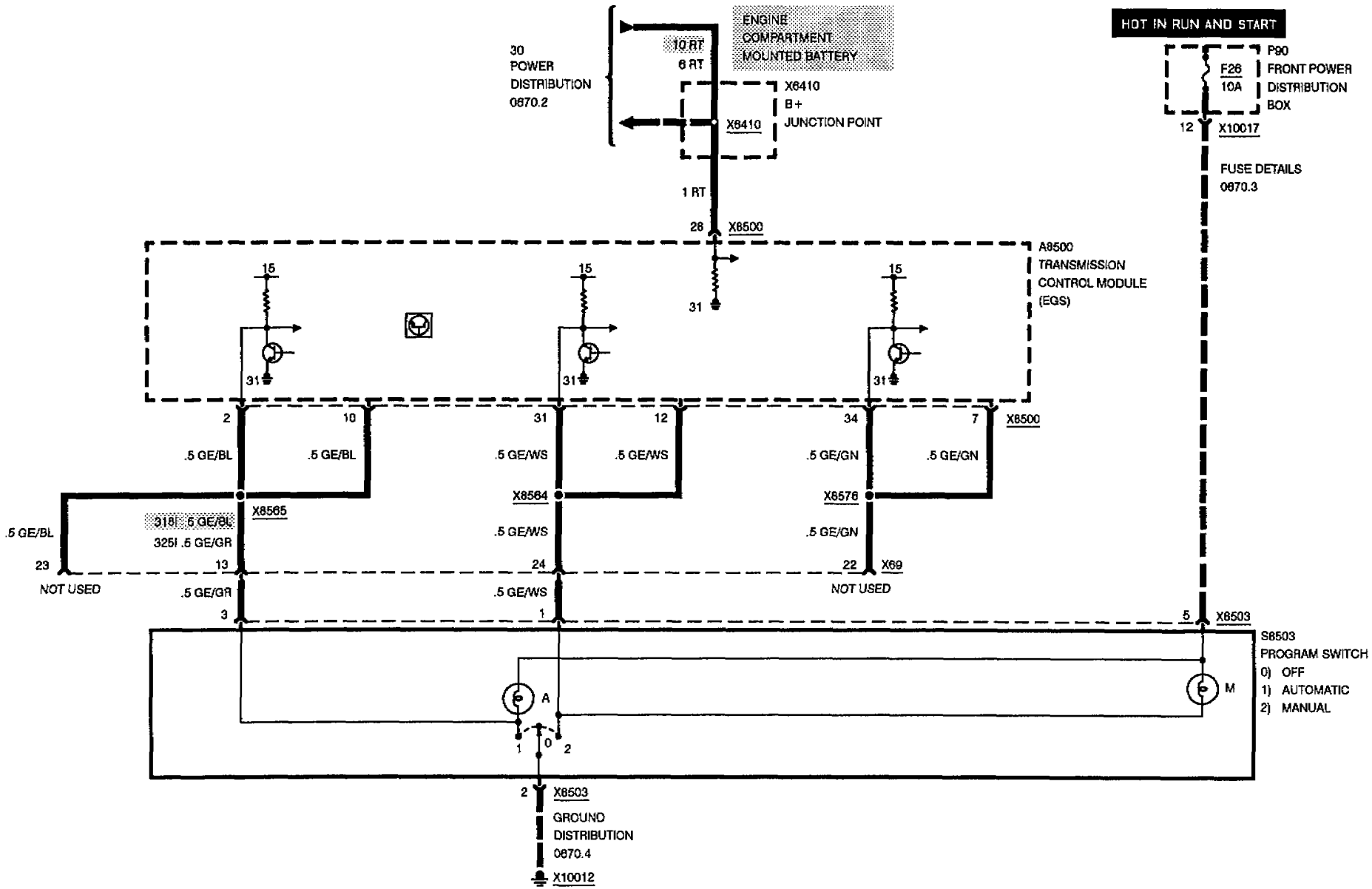
Pin Assignments

Pin	Type	Description/Function	Connection
31	E	Manual mode signal	Program switch
32		Not used	
33	E	Gear range signal L4	Automatic transmission range switch
34	E	S-program button	Not used
35	A	Ground, shift lock solenoid	Shift lock
36	M	Ground, electronic	Ground point
37	E	Voltage supply	Engine control module relay, terminal 87a
38	A	Torque converter clutch solenoid valve control	Transmission valve unit
39	E	Brake pedal position	Brake light switch
40	A	Hydraulic pressure regulator control (+)	Transmission valve unit
41	A	Hydraulic pressure regulator control (–)	Transmission valve unit
42		Not used	
43	A	Solenoid valve 2 control (+)	Transmission valve unit
44		Not used	
45	A	Band solenoid control (+)	Transmission valve unit
46		Not used	
47		Not used	
48	A	Solenoid valve 1 control (+)	Transmission valve unit
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	A	Solenoid valves ground control	Transmission valve unit
55	E	Throttle position signal	Engine control module (DME)

E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

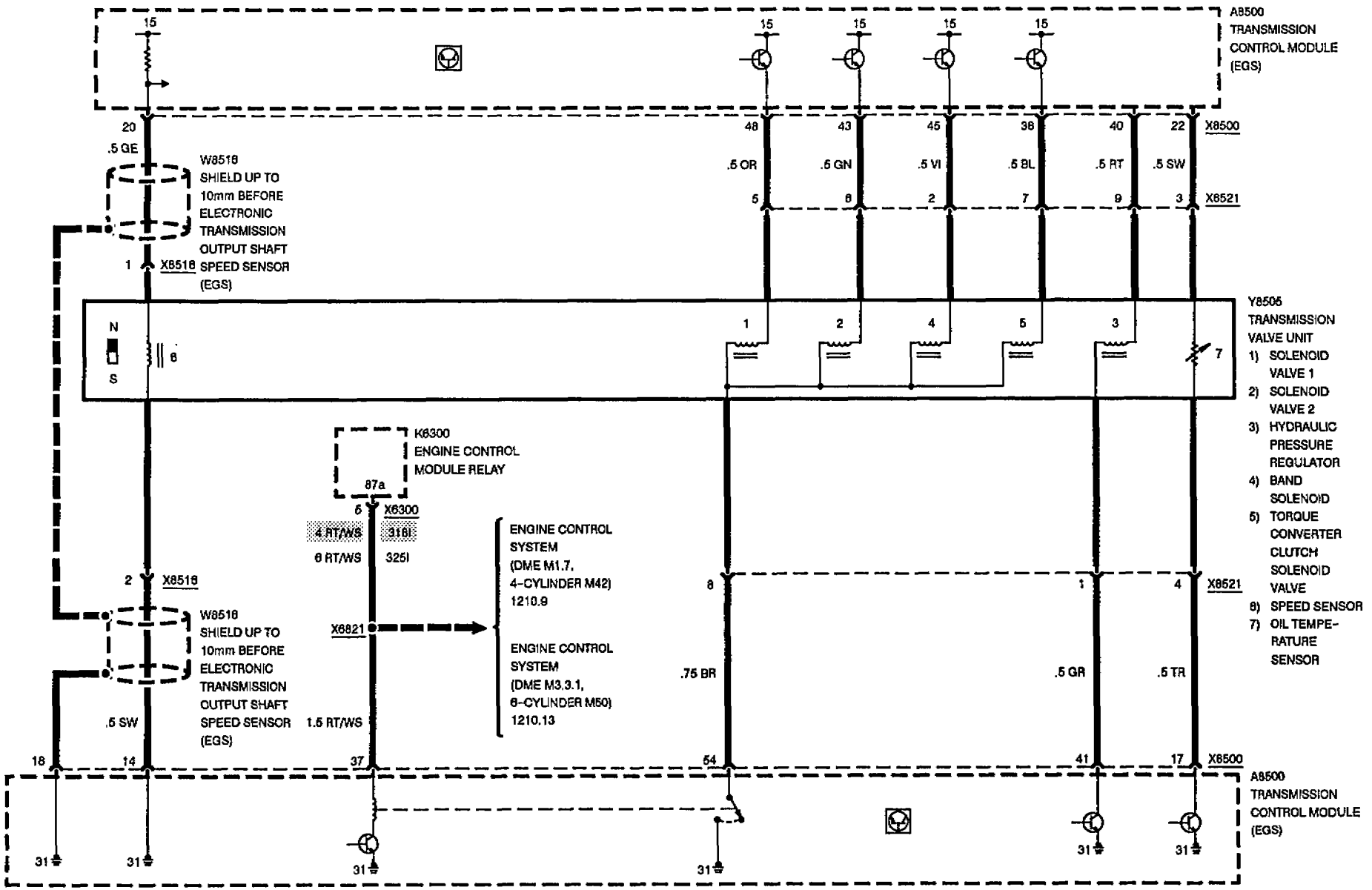
POWER, PROGRAM SWITCH



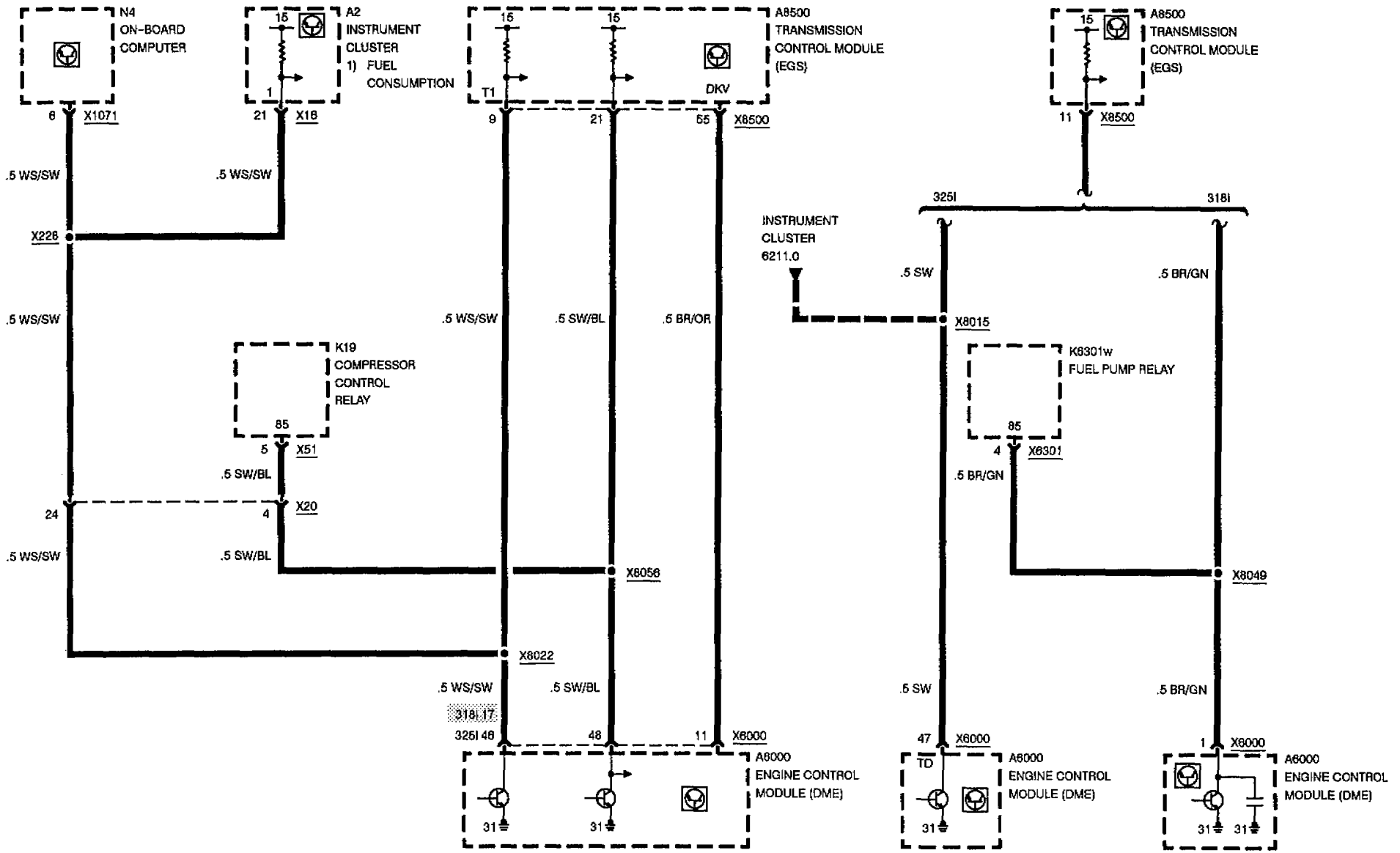
BMW 3

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR VALVE UNIT

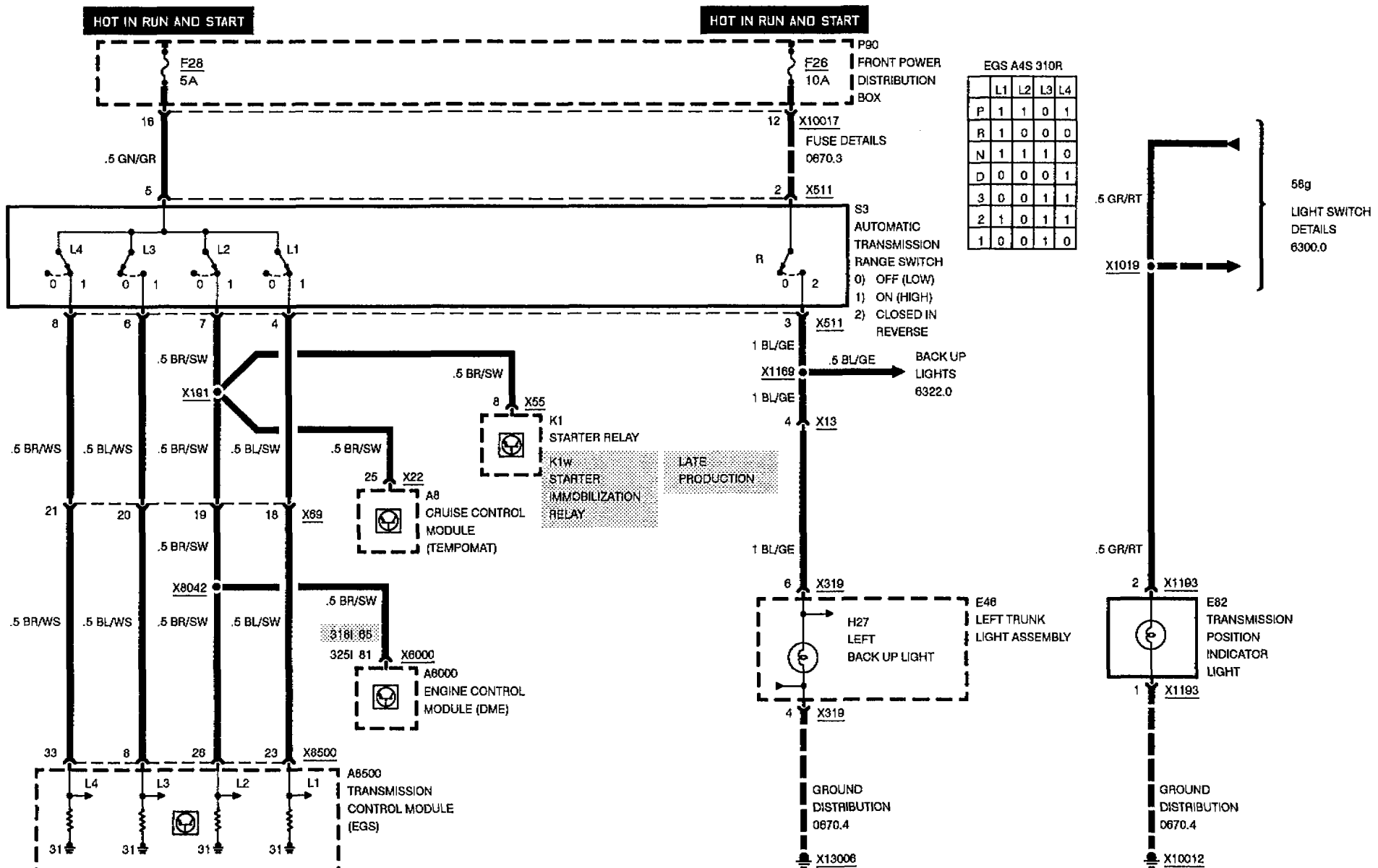


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



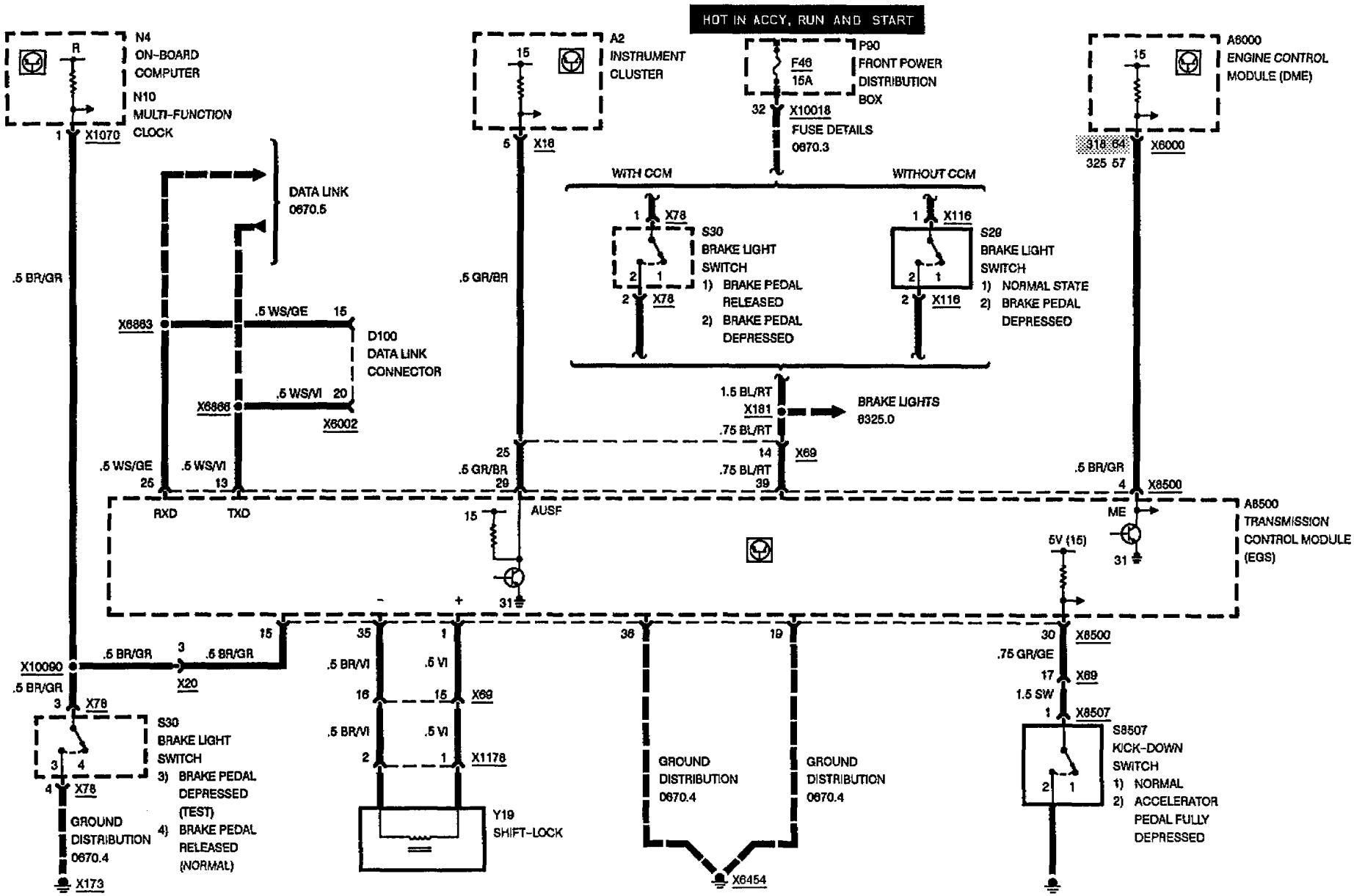
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR SELECTOR SWITCH

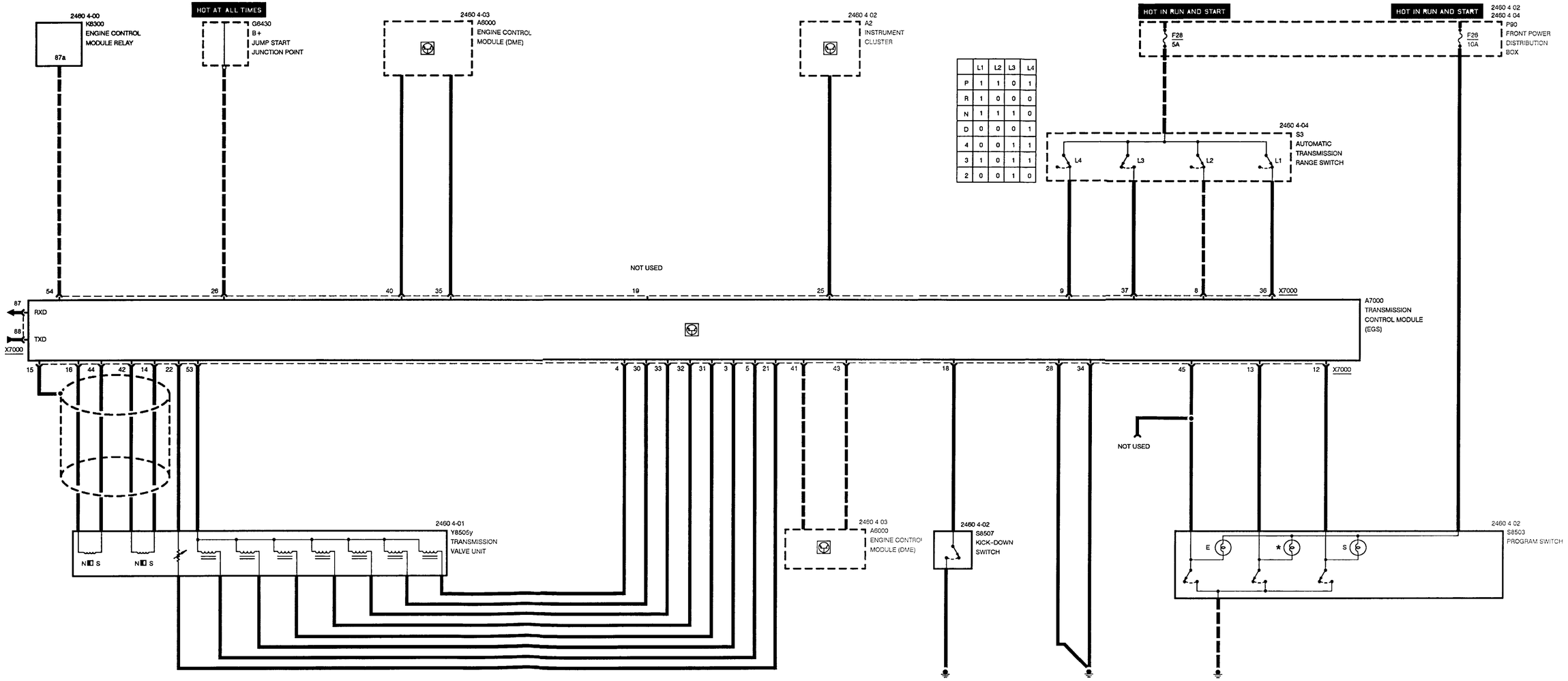


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

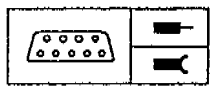
SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH



12/94 2460 4 1994
12/94 2460 4 1994



	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	1	0	1

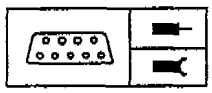


Pin Assignments

X7000

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3	A	Solenoid valve 5	Transmission valve unit
4	A	Torque converter clutch solenoid valve	Transmission valve unit
5	A	Hydraulic pressure regulator	Transmission valve unit
6		Not used	
7		Not used	
8		Gear range signal L2	Automatic transmission range switch
9		Gear range signal L4	Automatic transmission range switch
10		Not used	
11		Not used	
12	E	S-program indication	Program switch
13	E	*-program indication	Program switch
14	E	Speed sensor	Transmission valve unit
15	M	Shield speed sensor	Shield
16	A	Speed sensor n-turbine	Transmission valve unit
17		Not used	
18	E	Kick-down-signal	Kick-down-switch
19		Not used	
20		Not used	
21	M	Ground oil temperature sensor	Transmission valve unit
22	E	Oil temperature sensor	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	Jump start junction point
27		Not used	
28	M	Ground, electronics	Ground
29		Not used	
30	A	Solenoid valve 1	Transmission valve unit

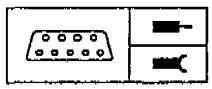
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Solenoid valve 4	Transmission valve unit
32	A	Solenoid valve 3	Transmission valve unit
33	A	Solenoid valve 2	Transmission valve unit
34	M	Ground	Ground
35	E	DKT-interface	Engine control module (DME)
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40	A	Ignition timing intervention	Engine control module (DME)
41	E	Ti-measurement signal (fuel consumption)	Engine control module (DME)
42	A	Speed sensor n - ab (+)	Transmission valve unit
43	E	Crankshaft RPM speed signal TD	Engine control module (DME)
44	E	Speed sensor n-turbine	Transmission valve unit
45	E	E-program indication	Program switch
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53	A	Voltage supply for solenoid valves	Transmission valve unit
54	E	Voltage supply	DME-relay
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	
62		Not used	

E = Input, A = Output, M = Ground

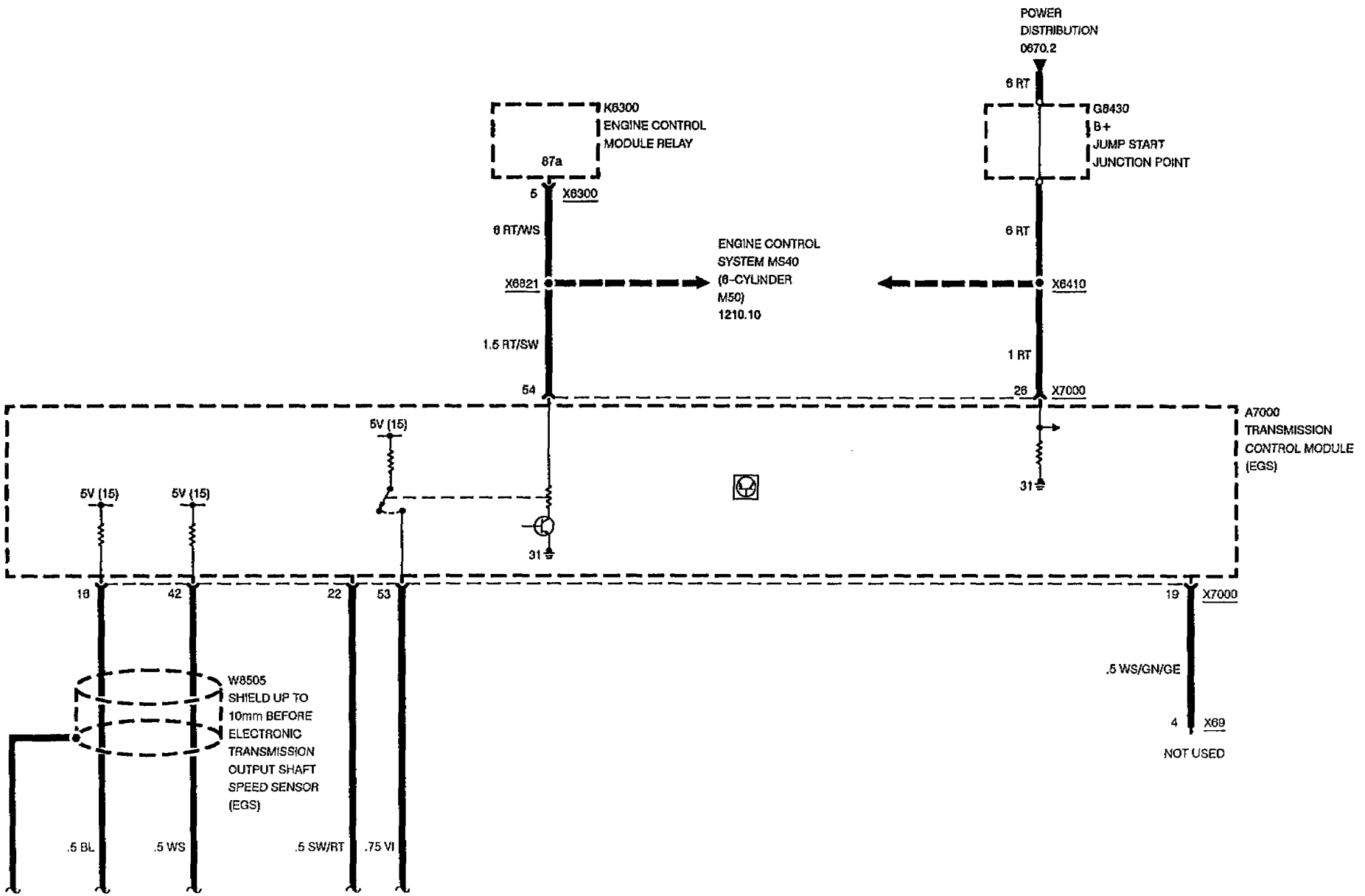


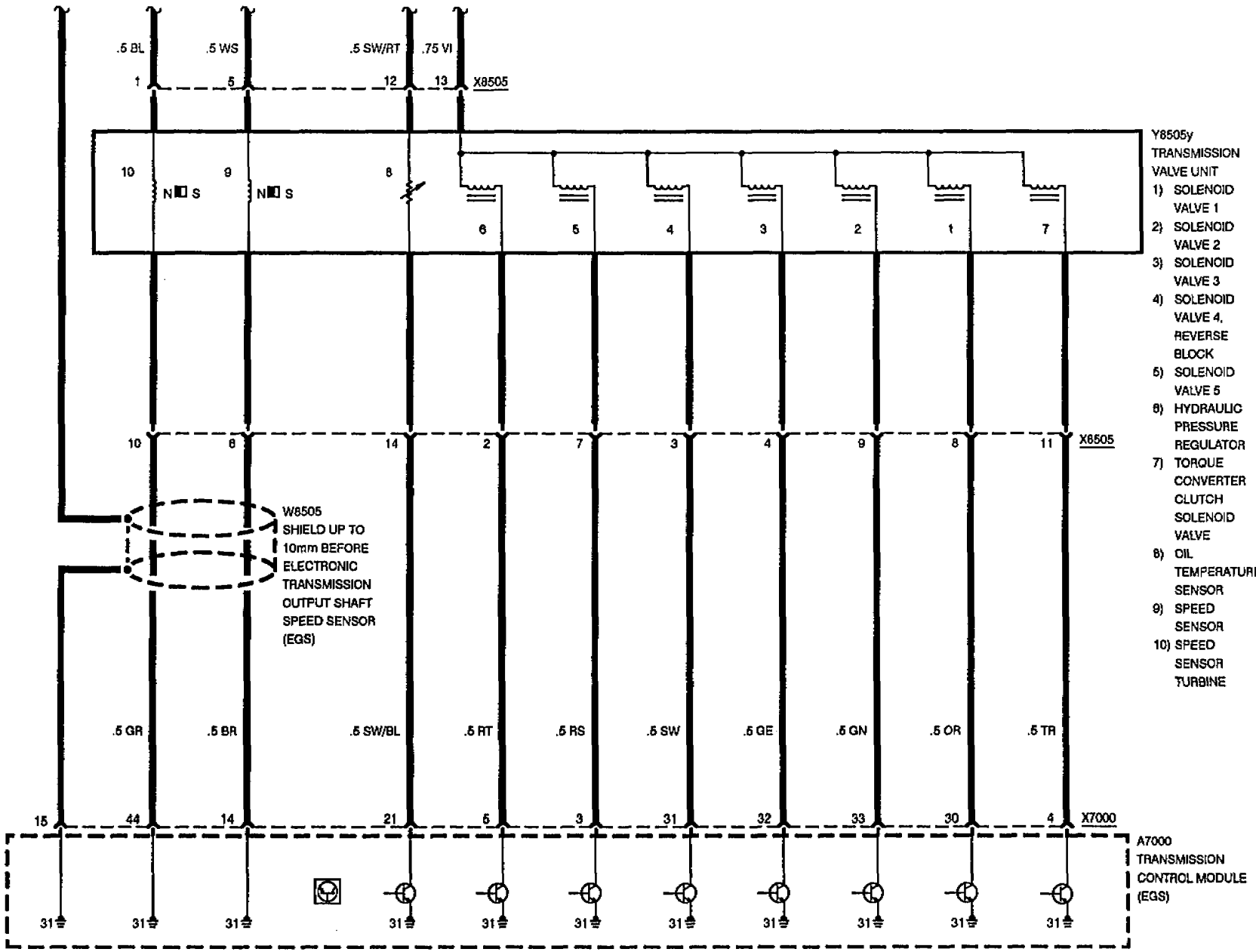
Pin Assignments

Pin	Type	Description/Function	Connection
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

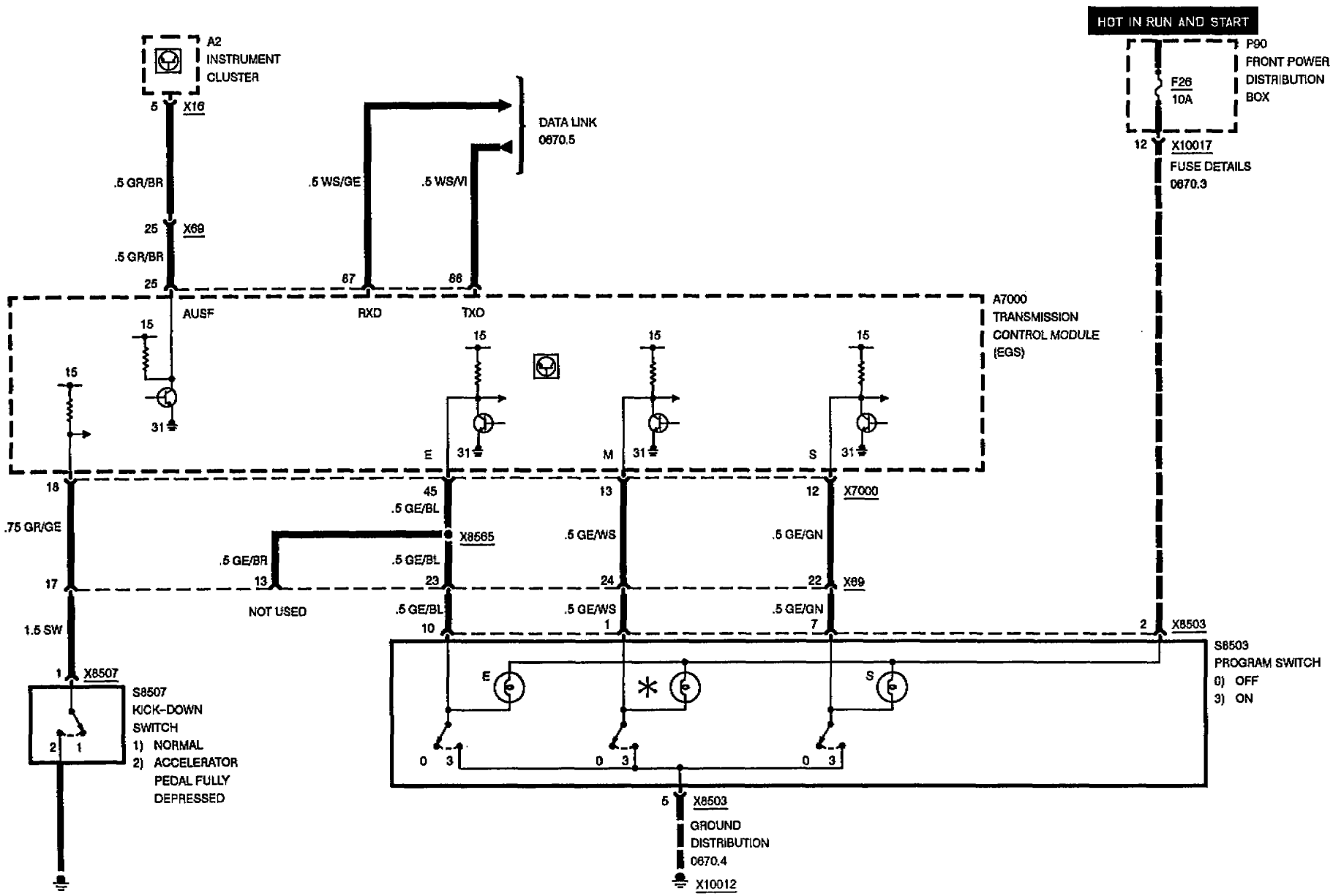
E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

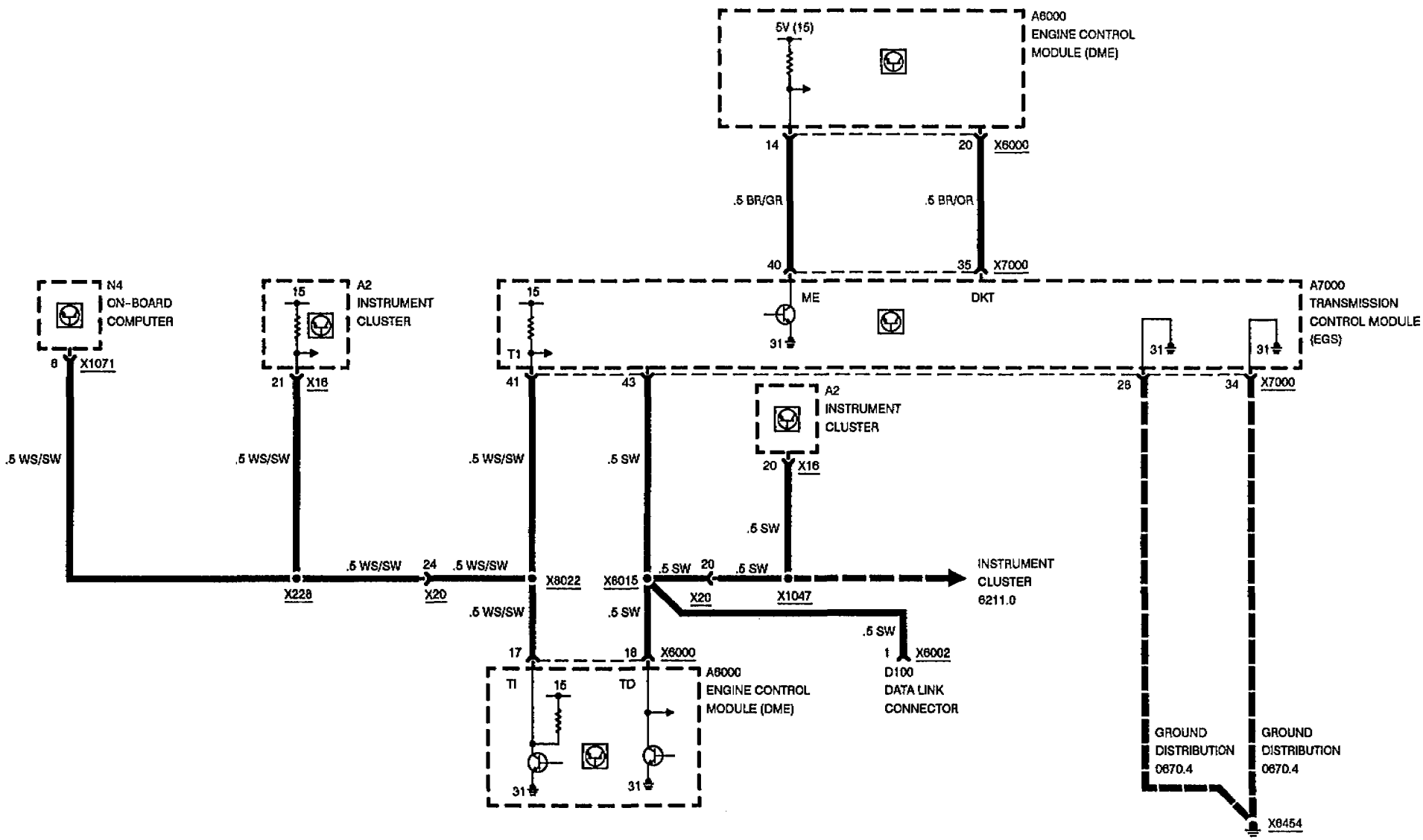



.5 BL
.5 WS
.5 SW/RT
.75 VI
1
5
12
13
X8505
10
9
8
N
S
6
5
4
3
2
1
7
Y8505y
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
4) SOLENOID VALVE 4, REVERSE BLOCK
5) SOLENOID VALVE 5
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
10) SPEED SENSOR TURBINE
10
6
14
2
7
3
4
9
8
11
X8505
W8505
SHIELD UP TO 10mm BEFORE ELECTRONIC TRANSMISSION OUTPUT SHAFT SPEED SENSOR (EGS)
.5 GR
.5 BR
.5 SW/BL
.5 RT
.5 RS
.5 SW
.5 GE
.5 GN
.5 OR
.5 TR
15
44
14
21
6
3
31
32
33
30
4
X7000
A7000
TRANSMISSION CONTROL MODULE (EGS)
31

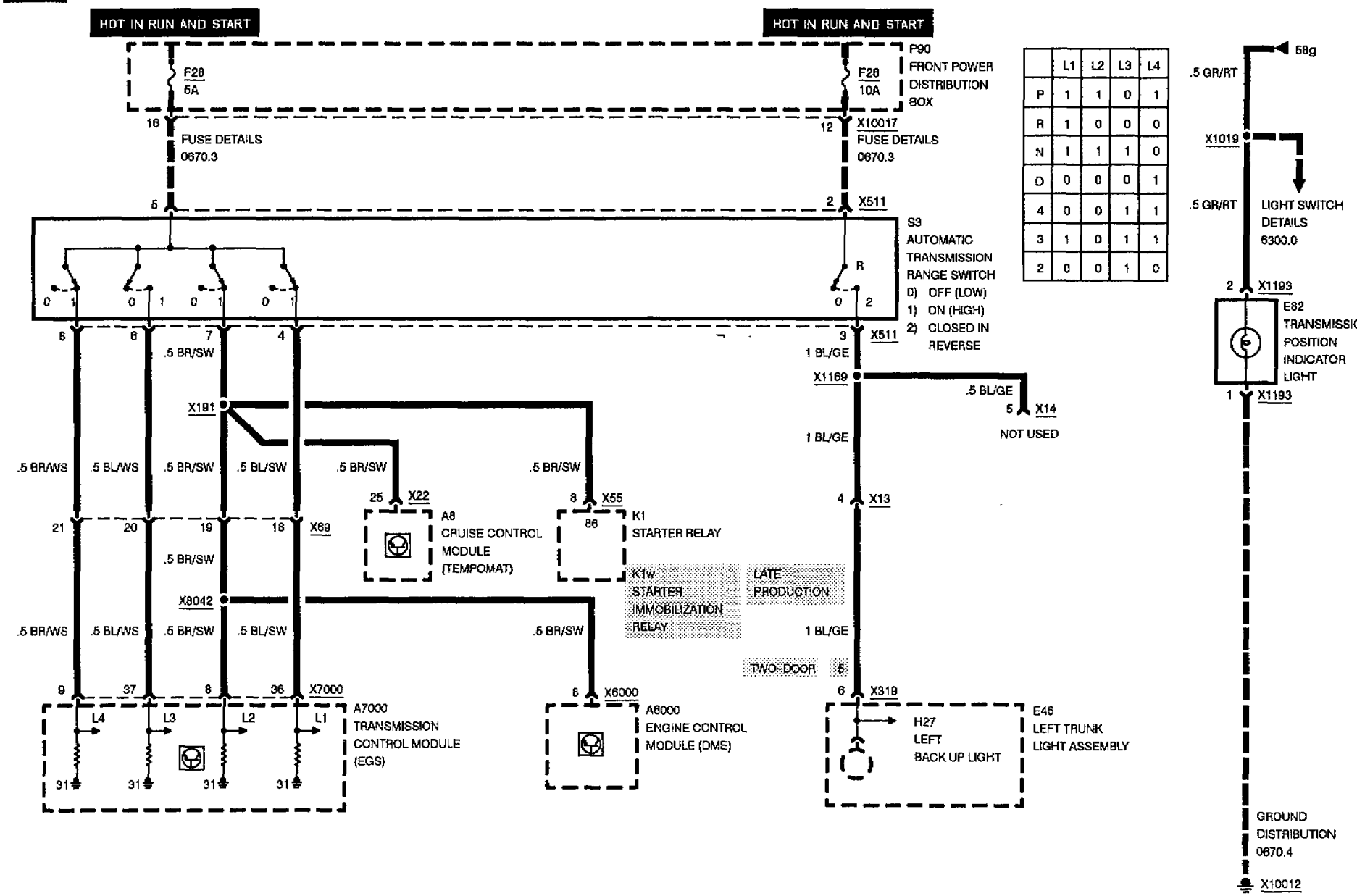
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

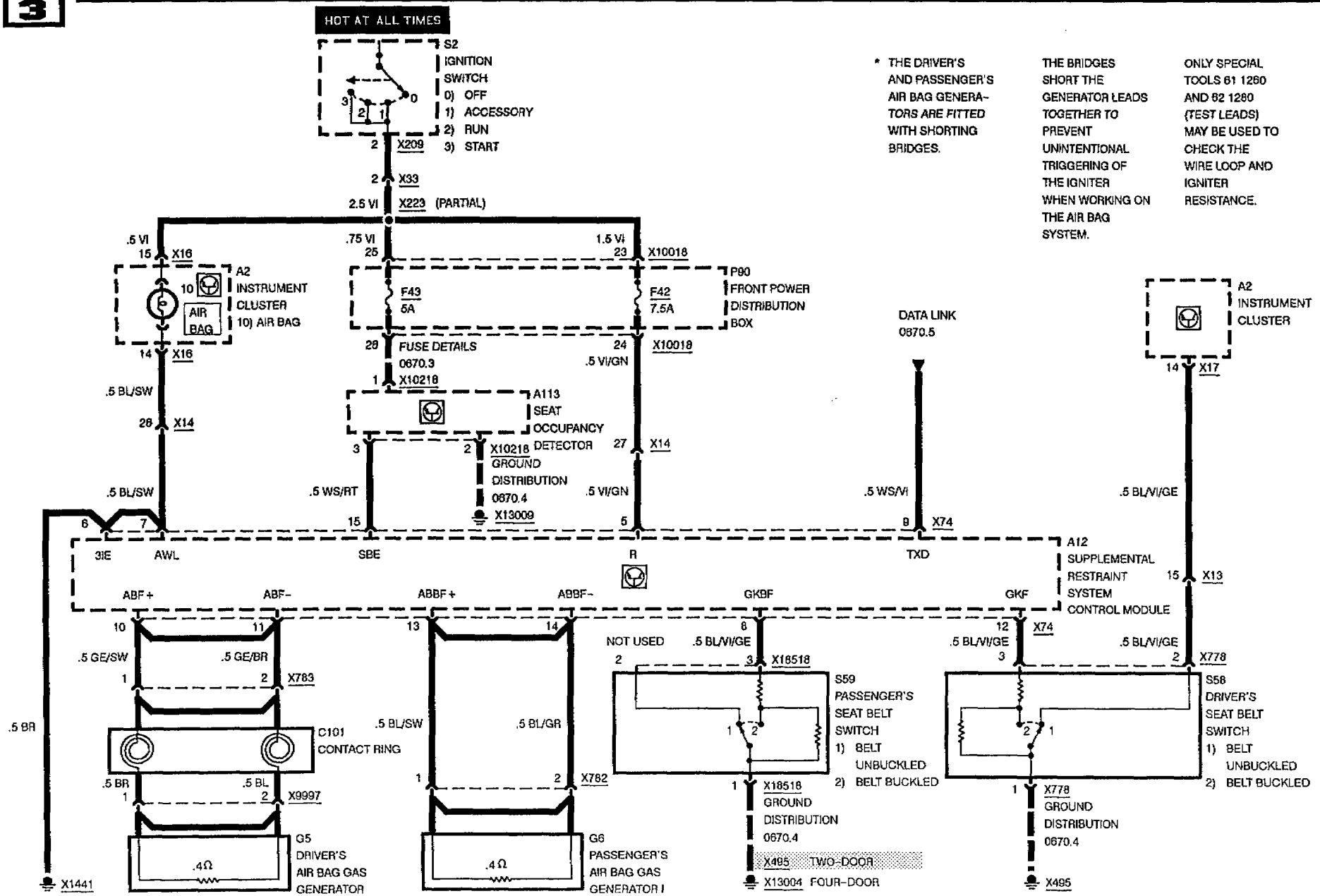


ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

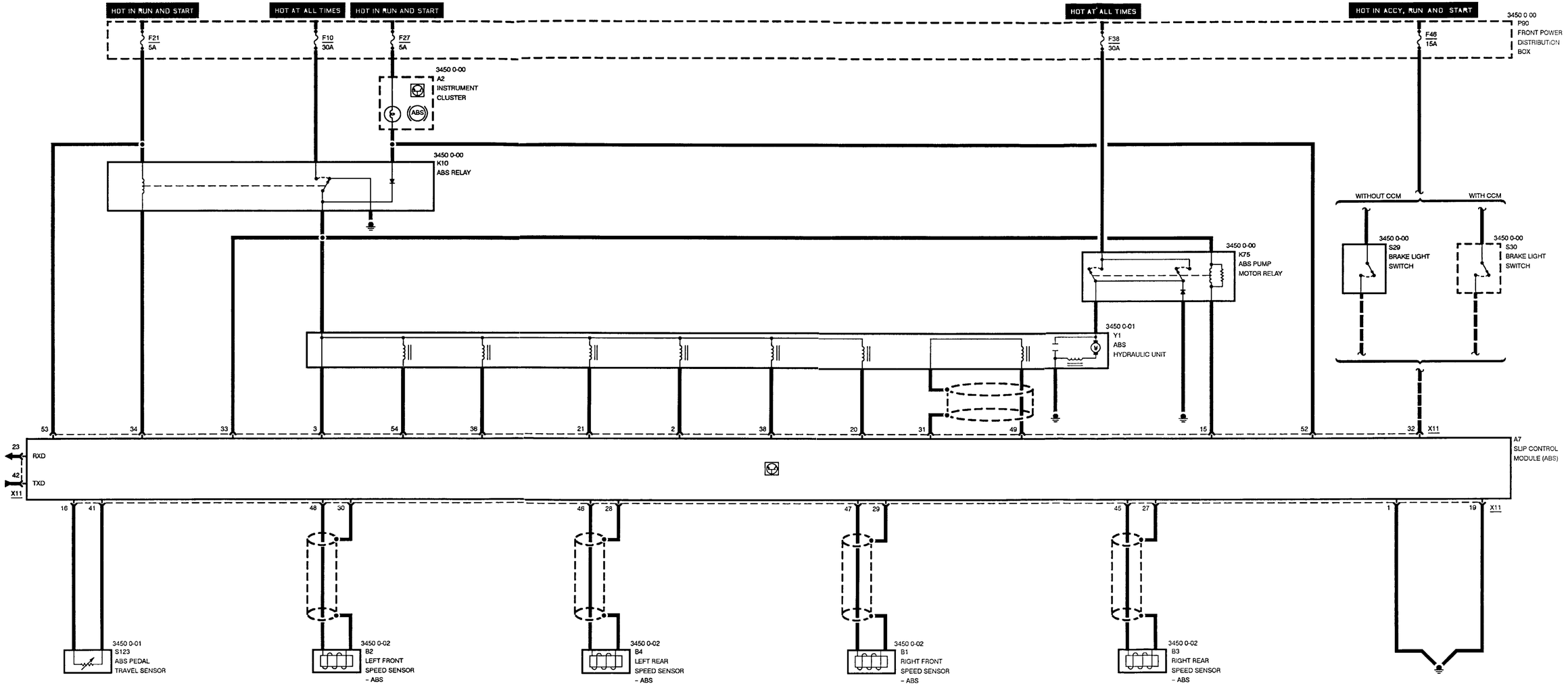


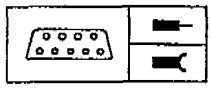
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



12/94 — 3450.0 — 1994
12/94 — 3450 0 — 1994



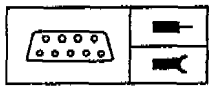


Pin Assignments

X11

Pin	Type	Description/Function	Connection
1	M	Ground, control module	Chassis ground
2	A	Left front outlet valve control	ABS hydraulic unit
3	E	Voltage monitoring, hydraulics	ABS hydraulic unit
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	
13		Not used	
14		Not used	
15	A	ABS pump motor relay control	ABS pump motor relay
16	E	ABS pedal travel sensor	ABS pedal travel sensor
17		Not used	
18		Not used	
19	M	Ground, control module	Chassis ground
20	A	Inlet valve control, LF	ABS hydraulic unit
21	A	Outlet valve control, RF	ABS hydraulic unit
22		Not used	
23	E	RxD diagnostic data link	Data link connector
24		Not used	
25		Not used	
26		Not used	
27	A	Speed sensor ground, RR	Right rear speed sensor - ABS
28	A	Speed sensor ground, RL	Left rear speed sensor - ABS
29	A	Speed sensor ground, FR	Right front speed sensor - ABS
30	A	Speed sensor ground, FL	Left front speed sensor - ABS

E = Input, A = Output, M = Ground

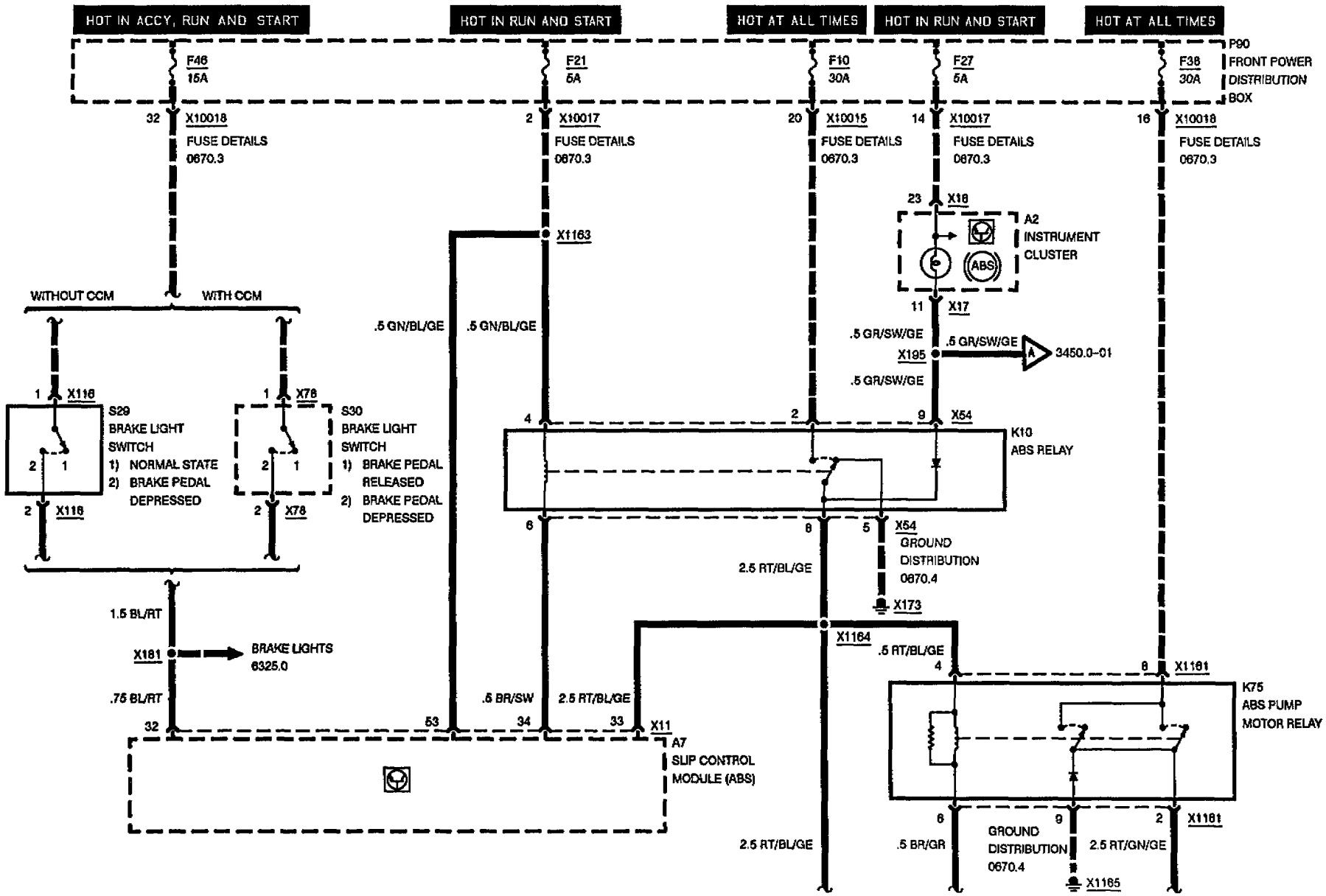


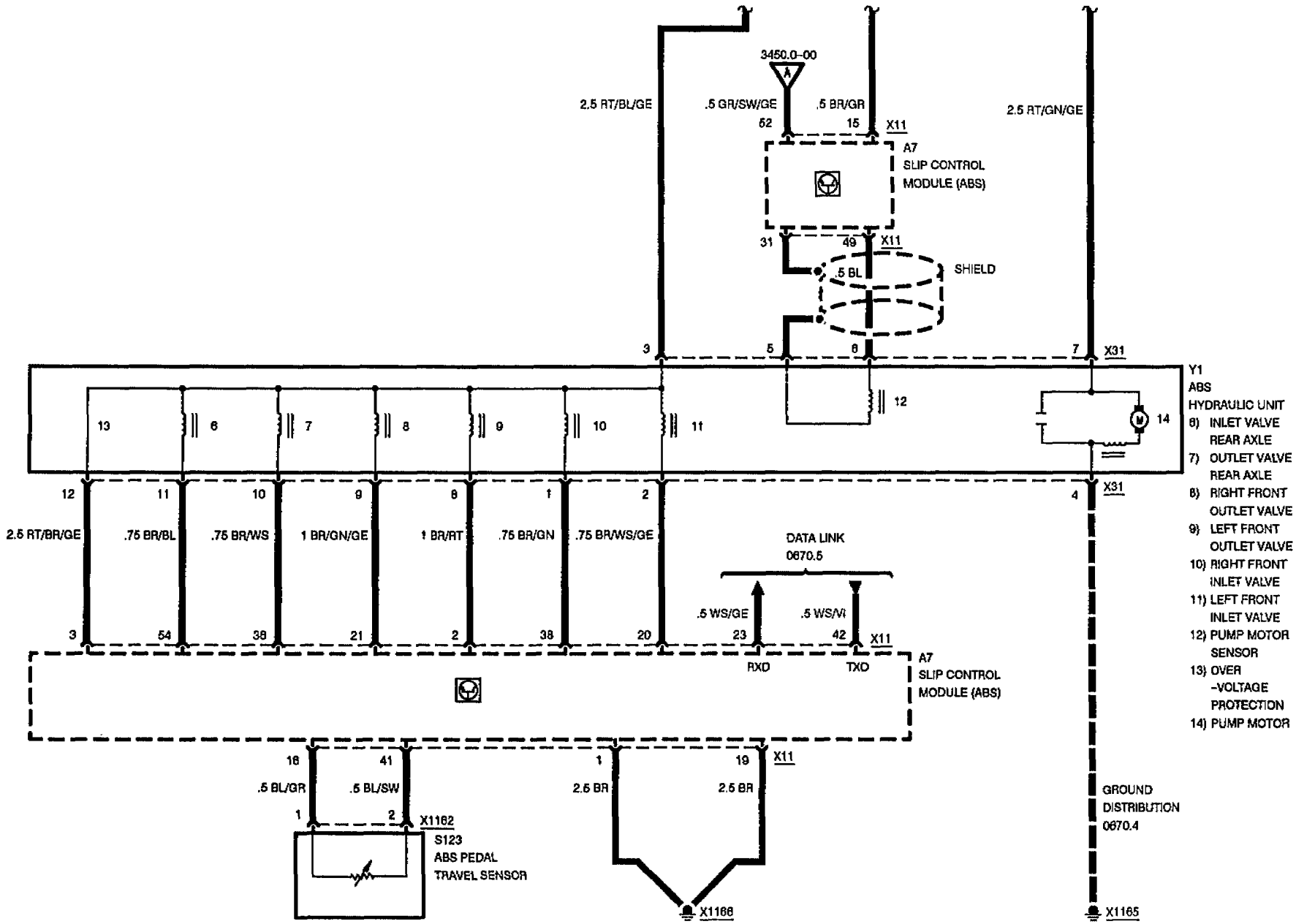
Pin Assignments

Pin	Type	Description/Function	Connection
31	E	Pump motor sensor shield	ABS hydraulic unit
32	E	Brake pedal position	Brake light switch
33	E	Operating voltage	ABS relay
34	A	ABS relay control	ABS relay
35		Not used	
36	A	Rear axle outlet valve control	ABS hydraulic unit
37		Not used	
38	A	Inlet valve control, RF	ABS hydraulic unit
39		Not used	
40		Not used	
41	E	ABS pedal travel sensor	ABS pedal travel sensor
42	E	TxD diagnostic data link	Data link connector
43		Not used	
44		Not used	
45	E	Speed sensor signal, RR	Right rear speed sensor - ABS
46	E	Speed sensor signal, RL	Left rear speed sensor - ABS
47	E	Speed sensor signal, FR	Right front speed sensor - ABS
48	E	Speed sensor signal, FL	Left front speed sensor - ABS
49	E	Pump motor sensor signal	ABS hydraulic unit
50		Not used	
51		Not used	
52	A	ABS warning lamp control	Instrument cluster
53	E	Voltage supply, terminal 15	Front power distribution box, fuse 21
54	A	Rear axle inlet valve control	ABS hydraulic unit
55		Not used	

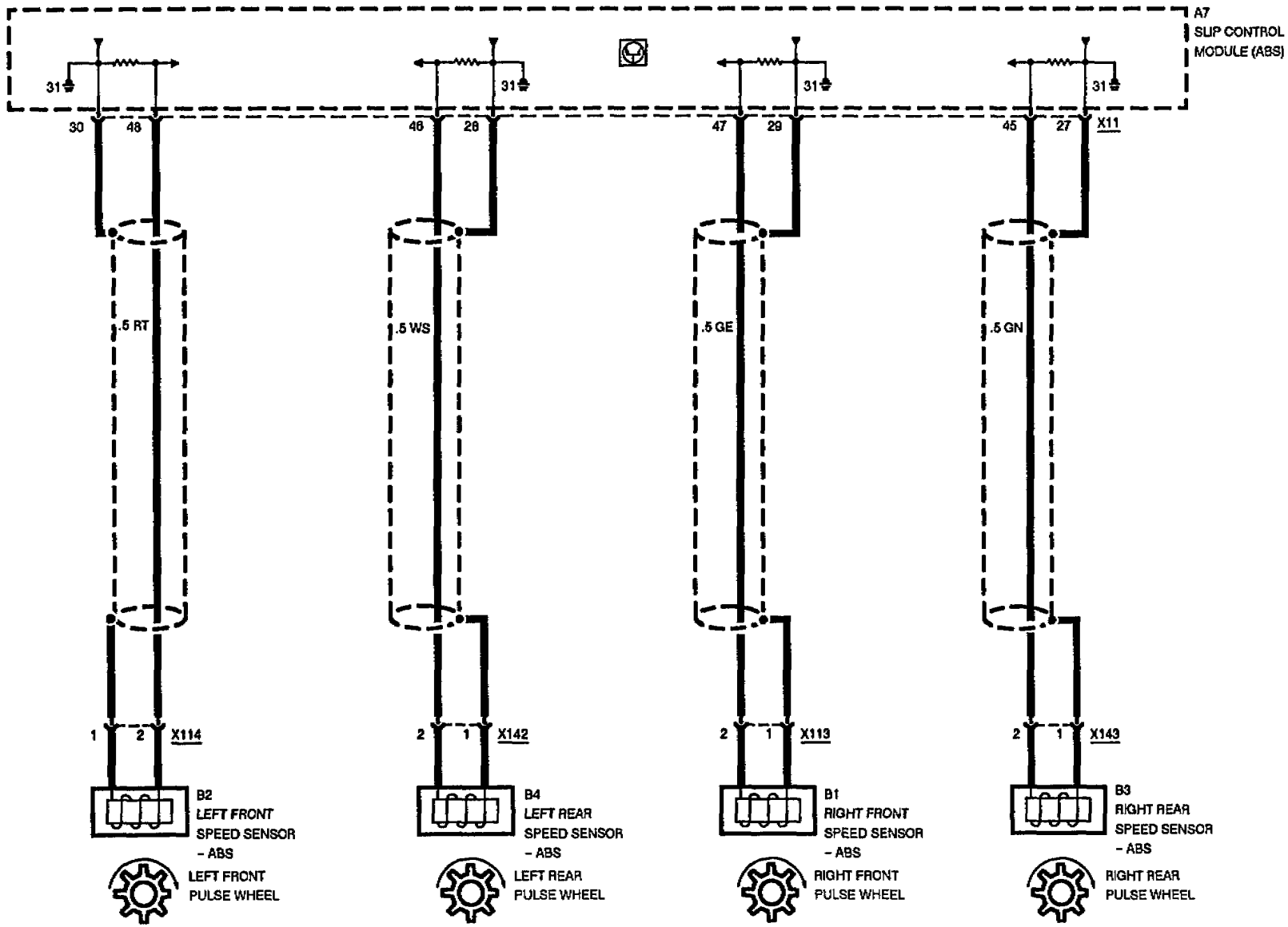
E = Input, A = Output, M = Ground

SLIP CONTROL (ABS)

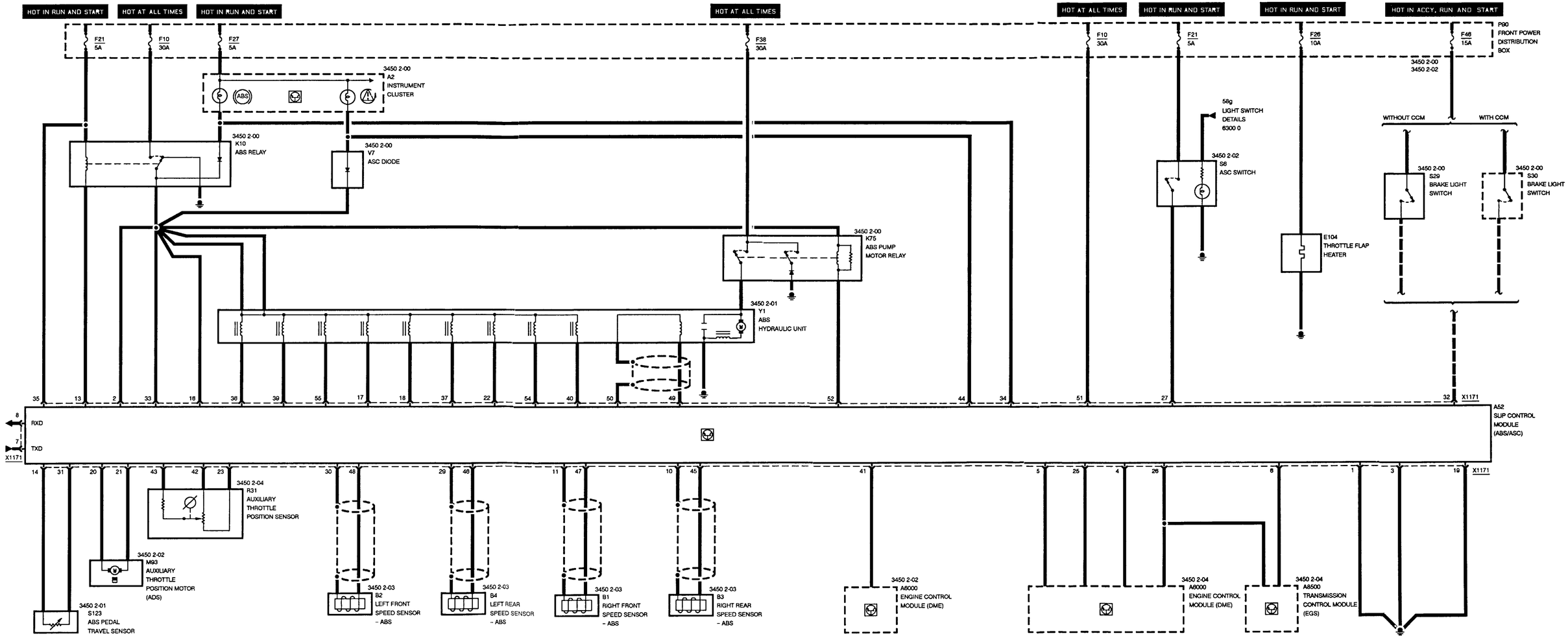


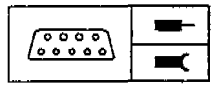

3450.0-00
2.5 RT/BL/GE
.5 GR/SW/GE
.5 BR/GR
2.5 RT/GN/GE
52
15
X11
A7
SLIP CONTROL
MODULE (ABS)
31
49
X11
.5 BL
SHIELD
3
5
6
7
X31
Y1
ABS
HYDRAULIC UNIT
6) INLET VALVE
REAR AXLE
7) OUTLET VALVE
REAR AXLE
8) RIGHT FRONT
OUTLET VALVE
9) LEFT FRONT
OUTLET VALVE
10) RIGHT FRONT
INLET VALVE
11) LEFT FRONT
INLET VALVE
12) PUMP MOTOR
SENSOR
13) OVER
-VOLTAGE
PROTECTION
14) PUMP MOTOR
13
6
7
8
9
10
11
12
14
12
11
10
9
8
1
2
4
X31
2.5 RT/BR/GE
.75 BR/BL
.75 BR/WS
1 BR/GN/GE
1 BR/RT
.75 BR/GN
.75 BR/WS/GE
DATA LINK
0670.5
3
54
38
21
2
38
20
.5 WS/GE
.5 WS/VI
23
42
X11
RXD
TXD
A7
SLIP CONTROL
MODULE (ABS)
16
41
1
19
X11
.5 BL/GR
.5 BL/SW
2.5 BR
2.5 BR
1
2
X1162
S123
ABS PEDAL
TRAVEL SENSOR
GROUND
DISTRIBUTION
0670.4
X1166
X1165

SLIP CONTROL (ABS)



12/94 — 3450.2 — 1994
12/94 — 3450 2 — 1994



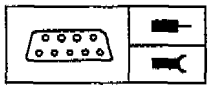


Pin Assignments

X1171

Pin	Type	Description/Function	Connection
1	M	Ground	Ground
2	E	Battery voltage	ABS-relay
3	M	Ground, module	Ground
4	E	Signal	DME-module
5	A	EML-signal	DME-module
6	A	Transmission influence	EGS-module
7	E/A	TxD-signal	Diagnostic link
8	A	RxD-signal	Diagnostic link
9		Not used	
10	A	Sensor ground	ABS-speed sensor rear right
11	A	Sensor ground	ABS-speed sensor front right
12		Not used	
13	A	ABS-power protection relay	ABS-power protection relay
14	E	Signal ABS-travel sensor	ABS-travel sensor
15		Not used	
16	E	Current	ABS-relay
17	A	Solenoid valve signal left rear	ABS-hydraulic unit
18	A	Solenoid valve signal left rear	ABS-hydraulic unit
19	M	Ground	Ground
20	A	ADS-step motor	ADS-step motor
21	A	ADS-step motor	ADS-step motor
22	A	Solenoid valve signal right front	ABS-hydraulic unit
23	E	ASC-throttle flap potentiometer	ASC-throttle flap motor
24		Not used	
25	E	Signal idle speed	DME-module
26	A	Throttle flap position	DME-module
27	E	ASC-switch signal	ASC-switch
28		Not used	
29	A	Sensor ground	ABS-speed sensor rear left
30	A	Sensor gound	ABS-speed sensor front left

E = Input, A = Output, M = Ground



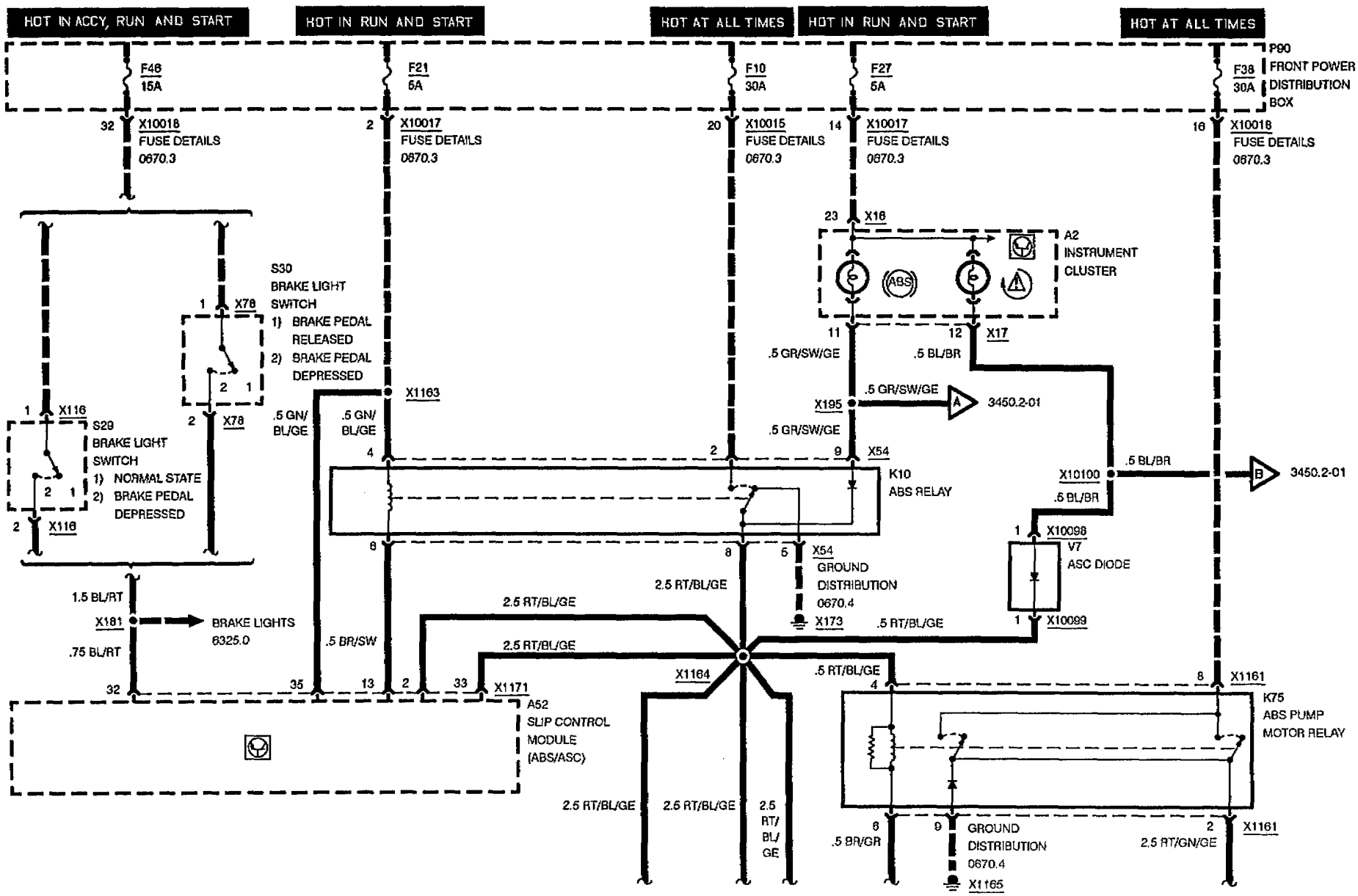
Pin Assignments

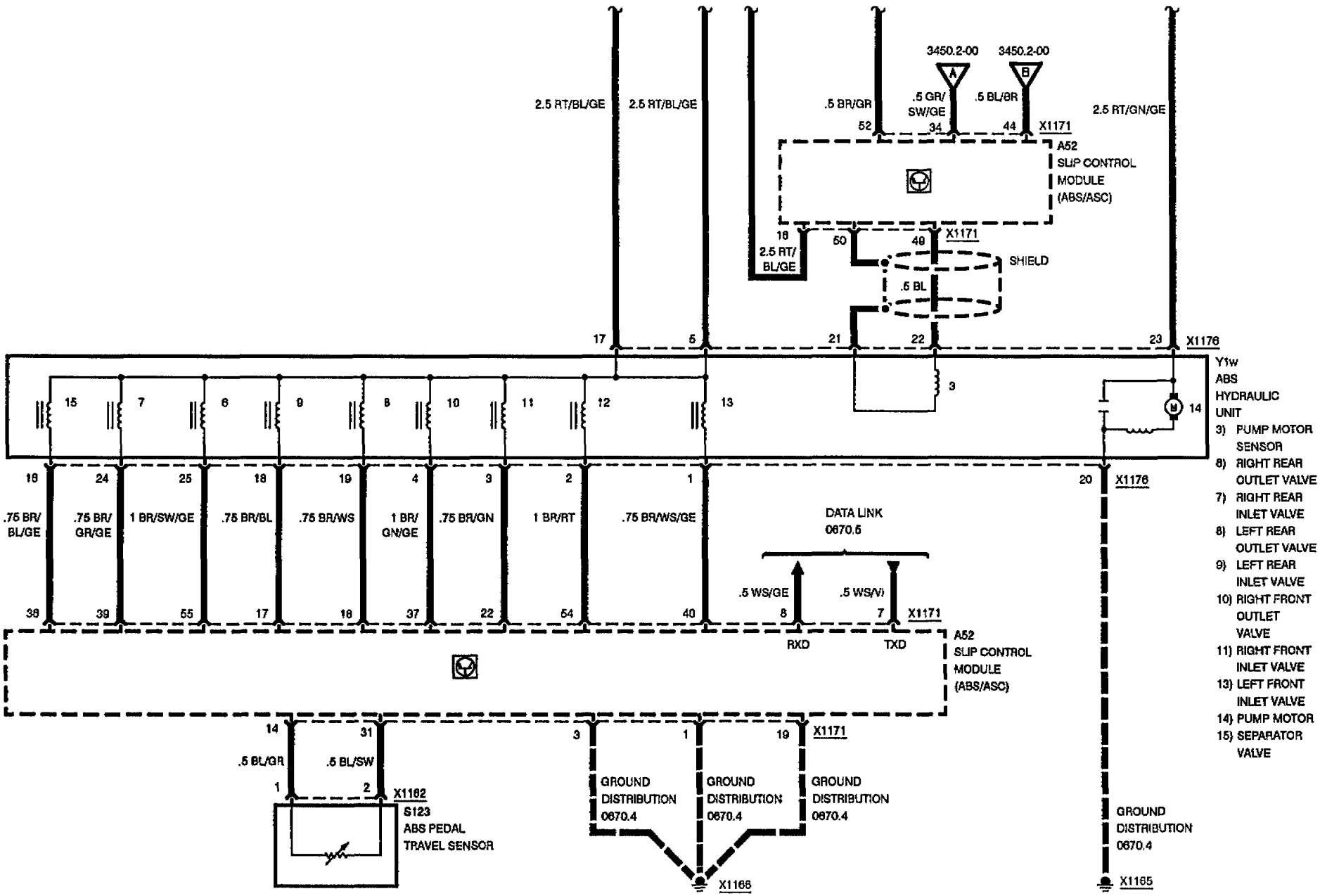
Pin	Type	Description/Function	Connection
31	A	Signal ABS-travel sensor	ABS-travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS-protection relay
34	A	ABS-lamp control	Instrument cluster
35	E	Ignition signal	Ignition switch
36	A	Solenoid valve	ABS-hydraulic unit
37	A	Solenoid valve signal right front	ABS-hydraulic unit
38		Not used	
39	A	Solenoid valve signal left rear	ABS-hydraulic unit
40	A	Solenoid valve signal left front	ABS-hydraulic unit
41	E	Speed signal	DME-module
42	E	ASC-throttle flap potentiometer	ASC-throttle flap potentiometer
43	E	ASC-throttle flap potentiometer	ASC-throttle flap potentiometer
44	A	ASC-lamp control	Instrument cluster
45	E	Speed sensor signal rear right	Speed sensor rear right
46	E	Speed sensor signal rear left	Speed sensor rear left
47	E	Speed sensor signal front right	Speed sensor front right
48	E	Speed sensor signal front left	Speed sensor front left
49	E	Pump motor sensor signal	ABS-hydraulic unit
50	E	Shield pump motor sensor	ABS-hydraulic unit
51	E	Plus supply	Front power distribution box
52	A	ABS-pump motor relay	ABS-pump motor relay
53		Not used	
54	A	Solenoid valve signal left front	ABS-hydraulic unit
55	A	Solenoid valve signal left rear	ABS-hydraulic unit

E = Input, A = Output, M = Ground

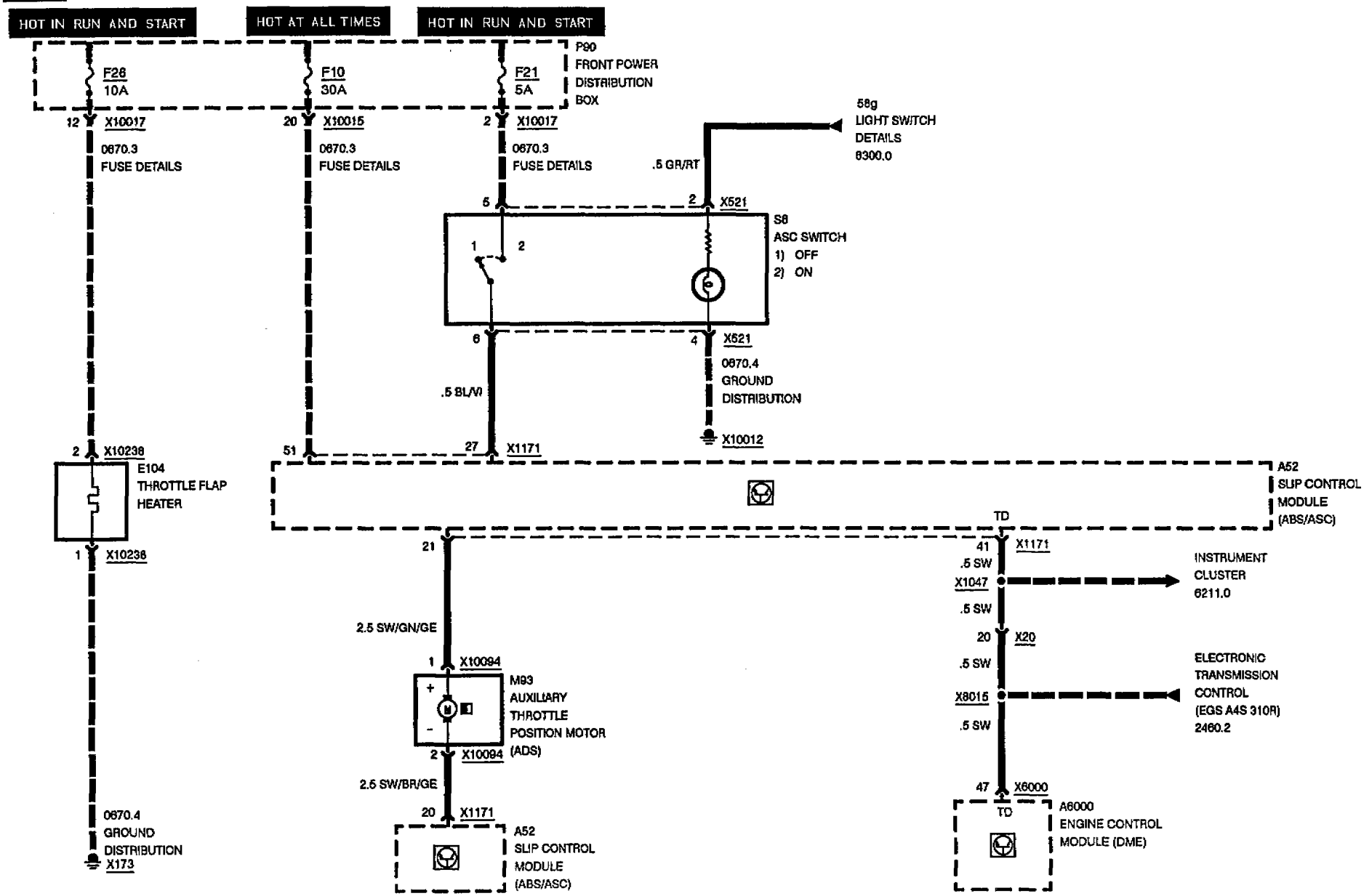
SLIP CONTROL (ABS/ASC+T)

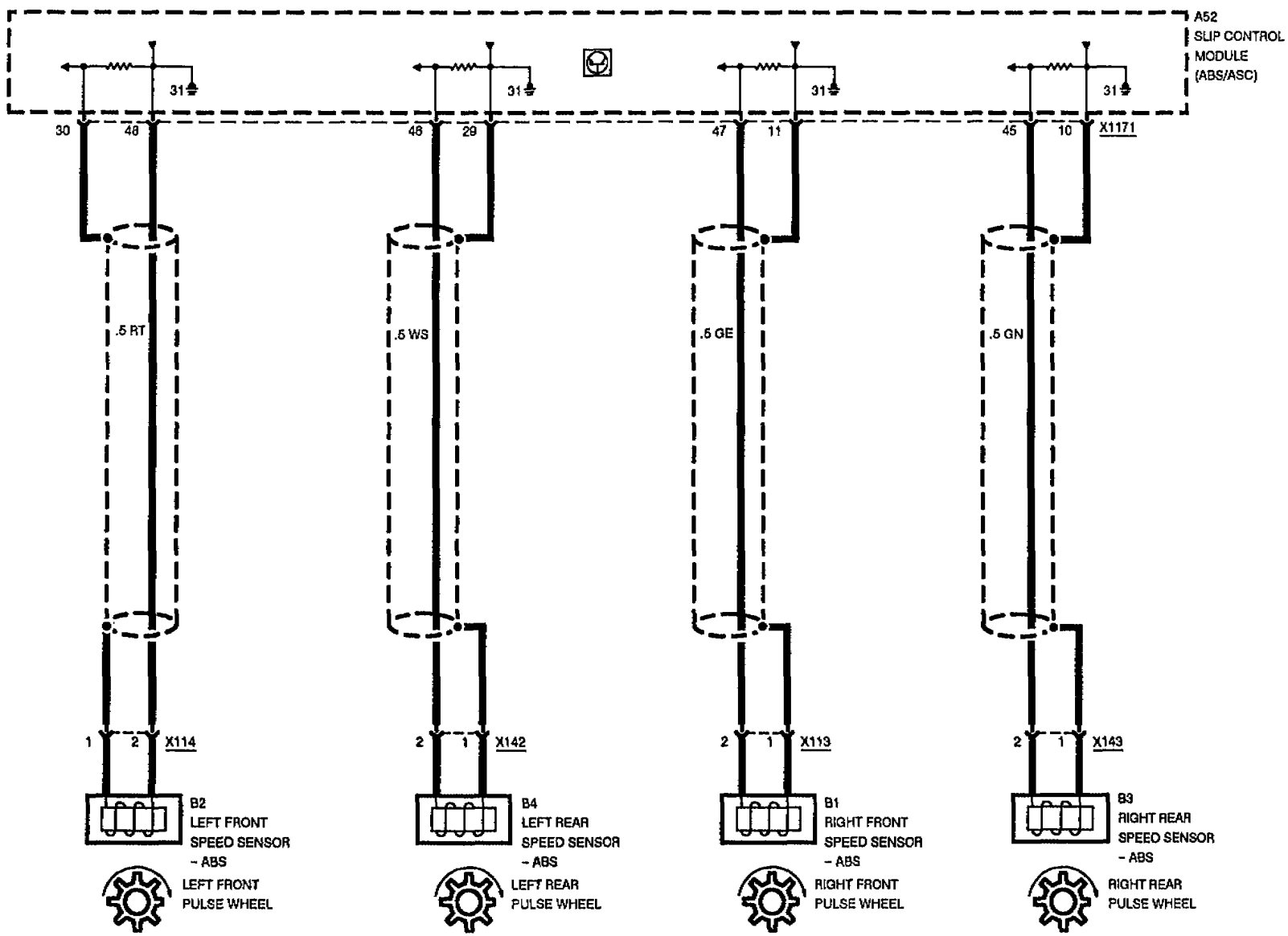
325i




3450.2-00
3450.2-00
A
B
2.5 RT/BL/GE
2.5 RT/BL/GE
.5 BR/GR
.5 GR/ SW/GE
.5 BL/BR
2.5 RT/GN/GE
52
34
44
X1171
A52
SLIP CONTROL MODULE (ABS/ASC)
18
2.5 RT/ BL/GE
50
49
X1171
SHIELD
.5 BL
17
5
21
22
23
X1176
Y1w
ABS HYDRAULIC UNIT
3) PUMP MOTOR SENSOR
6) RIGHT REAR OUTLET VALVE
7) RIGHT REAR INLET VALVE
8) LEFT REAR OUTLET VALVE
9) LEFT REAR INLET VALVE
10) RIGHT FRONT OUTLET VALVE
11) RIGHT FRONT INLET VALVE
13) LEFT FRONT INLET VALVE
14) PUMP MOTOR
15) SEPARATOR VALVE
15
7
6
9
8
10
11
12
13
3
14
M
19
24
25
18
19
4
3
2
1
20
X1176
.75 BR/ BL/GE
.75 BR/ GR/GE
1 BR/SW/GE
.75 BR/BL
.75 BR/WS
1 BR/ GN/GE
.75 BR/GN
1 BR/RT
.75 BR/WS/GE
DATA LINK 0670.5
38
39
55
17
18
37
22
54
40
.5 WS/GE
.5 WS/V
8
7
X1171
RXD
TXD
A52
SLIP CONTROL MODULE (ABS/ASC)
14
31
.5 BL/GR
.5 BL/SW
1
2
X1162
S123
ABS PEDAL TRAVEL SENSOR
3
1
19
X1171
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X1166
GROUND DISTRIBUTION 0670.4
X1165

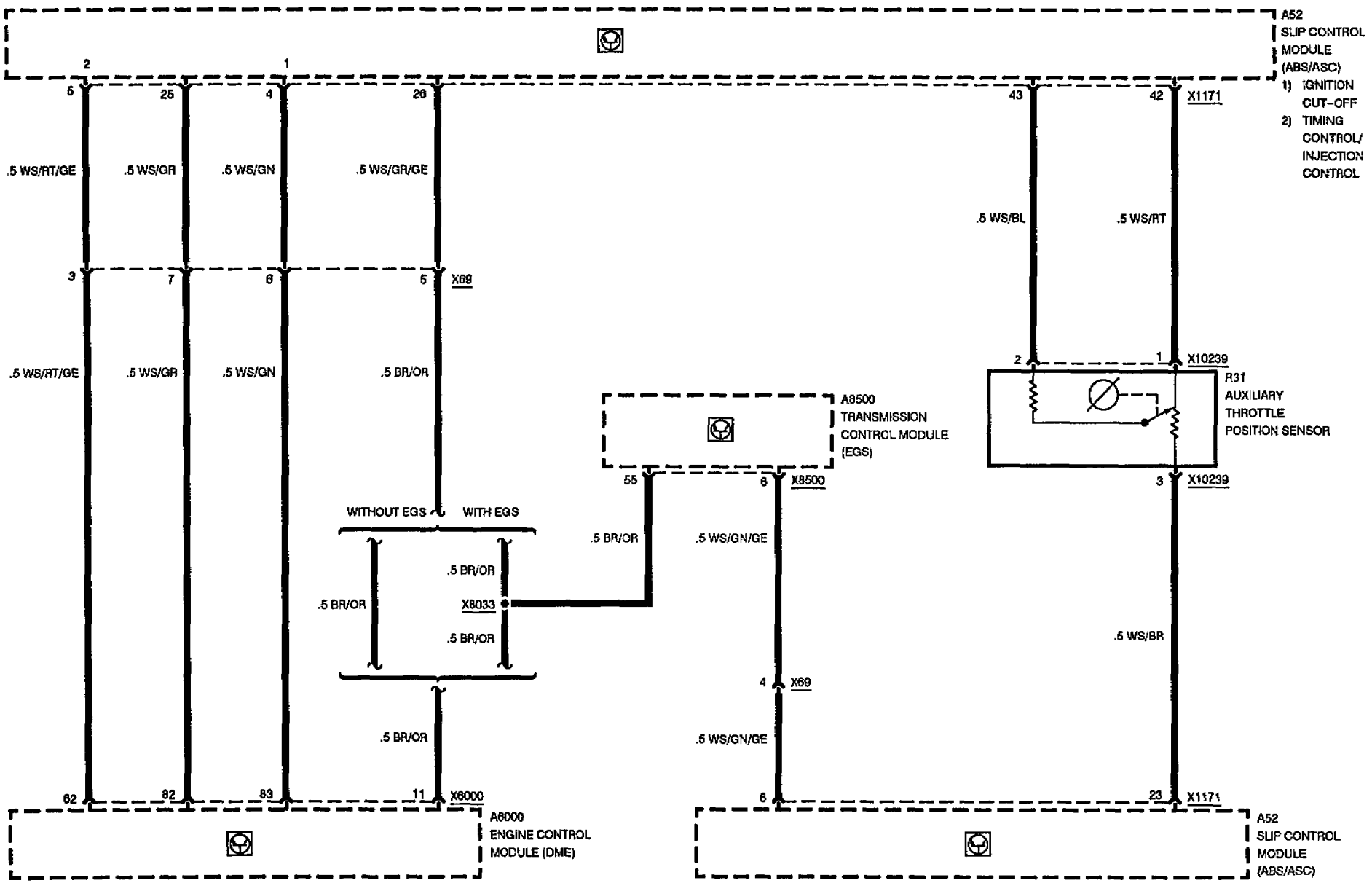
SLIP CONTROL (ABS/ASC+T)

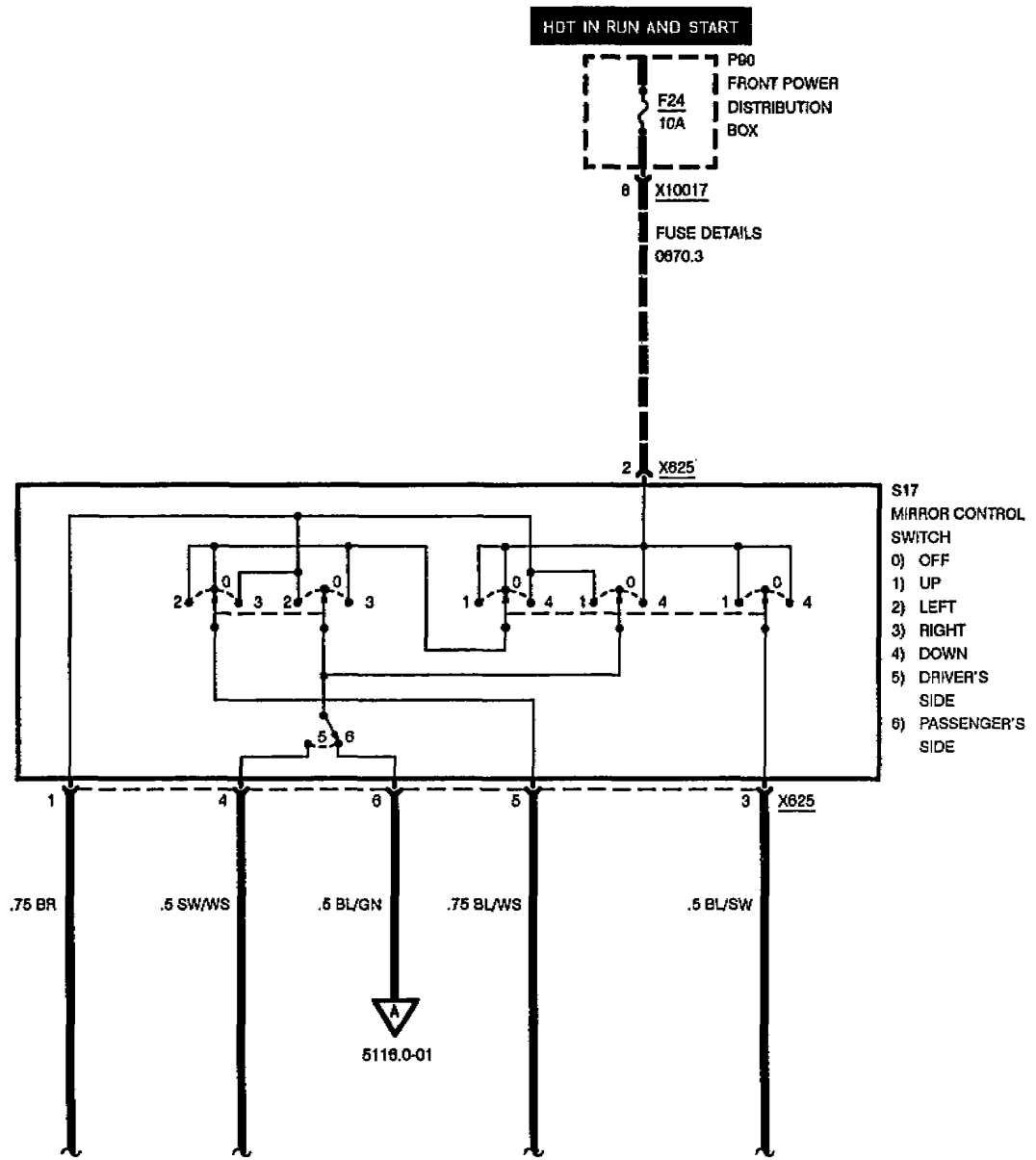


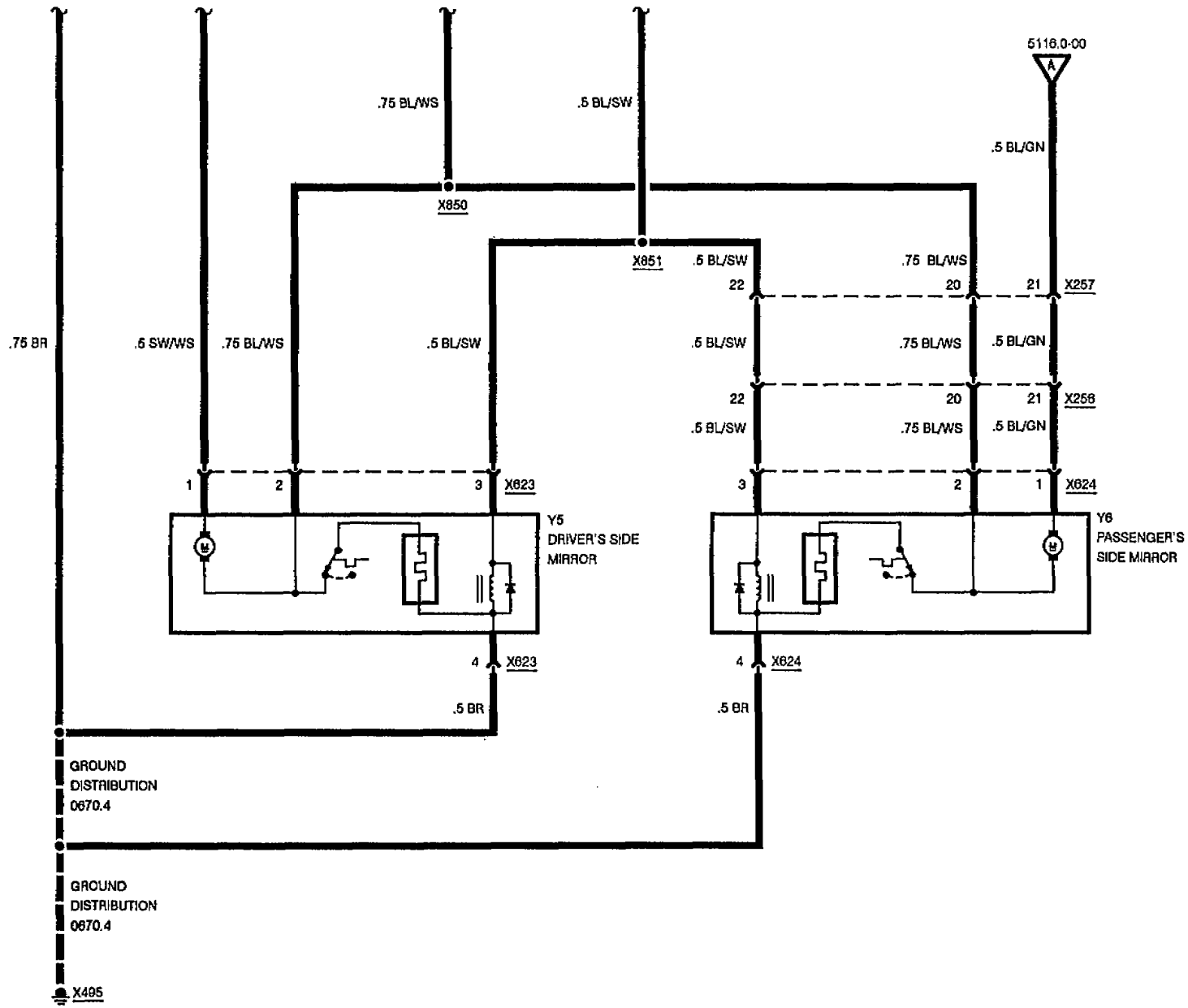

A52
SLIP CONTROL
MODULE
(ABS/ASC)
31
30
48
29
47
11
45
10
X1171
.5 RT
.5 WS
.5 GE
.5 GN
1
2
X114
X142
X113
X143
B2
LEFT FRONT
SPEED SENSOR
- ABS
B4
LEFT REAR
SPEED SENSOR
- ABS
B1
RIGHT FRONT
SPEED SENSOR
- ABS
B3
RIGHT REAR
SPEED SENSOR
- ABS
LEFT FRONT
PULSE WHEEL
LEFT REAR
PULSE WHEEL
RIGHT FRONT
PULSE WHEEL
RIGHT REAR
PULSE WHEEL

SLIP CONTROL (ABS/ASC+T)

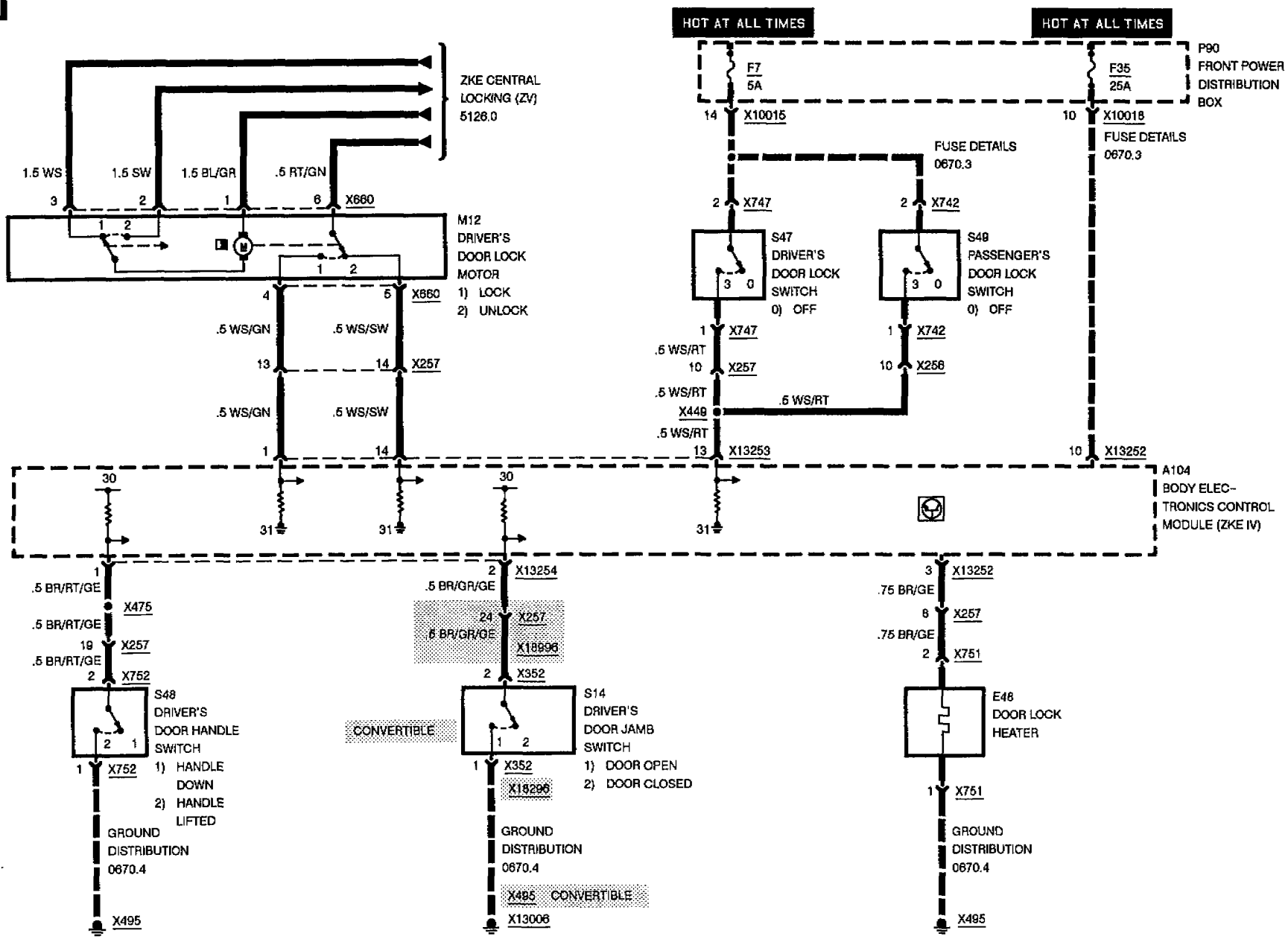
325i




HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION
BOX
F24
10A
8
X10017
FUSE DETAILS
0670.3
2
X625
S17
MIRROR CONTROL
SWITCH
0) OFF
1) UP
2) LEFT
3) RIGHT
4) DOWN
5) DRIVER'S
SIDE
6) PASSENGER'S
SIDE
5
6
1
4
6
5
3
X625
.75 BR
.5 SW/WS
.5 BL/GN
.75 BL/WS
.5 BL/SW
A
5116.0-01

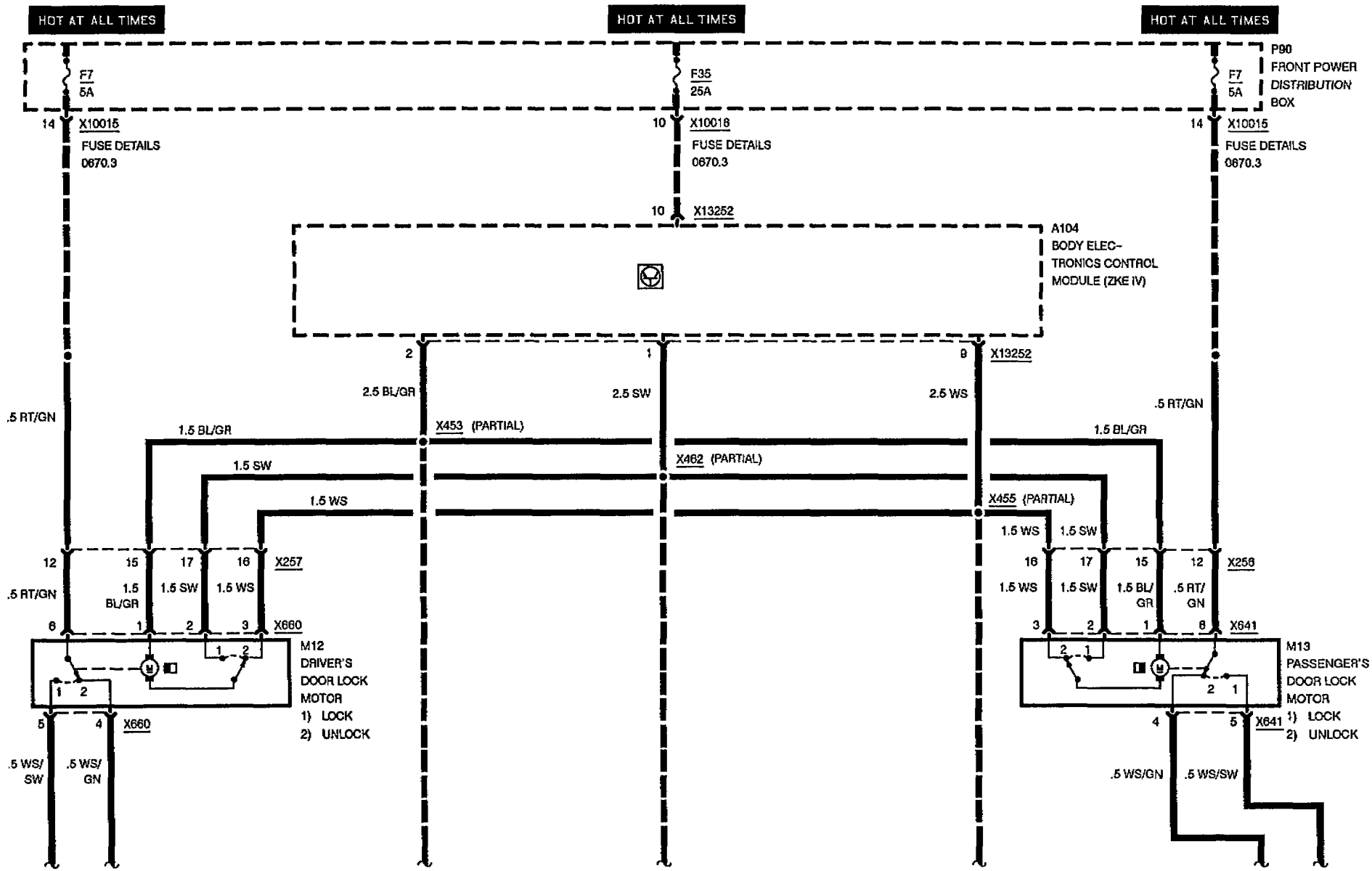

5116.0-00
.75 BL/WS
.5 BL/SW
.5 BL/GN
X850
X851
.5 BL/SW
.75 BL/WS
22
20
21
X257
.75 BR
.5 SW/WS
.75 BL/WS
.5 BL/SW
.5 BL/SW
.75 BL/WS
.5 BL/GN
22
20
21
X256
.5 BL/SW
.75 BL/WS
.5 BL/GN
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
.5 BR
.5 BR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X495

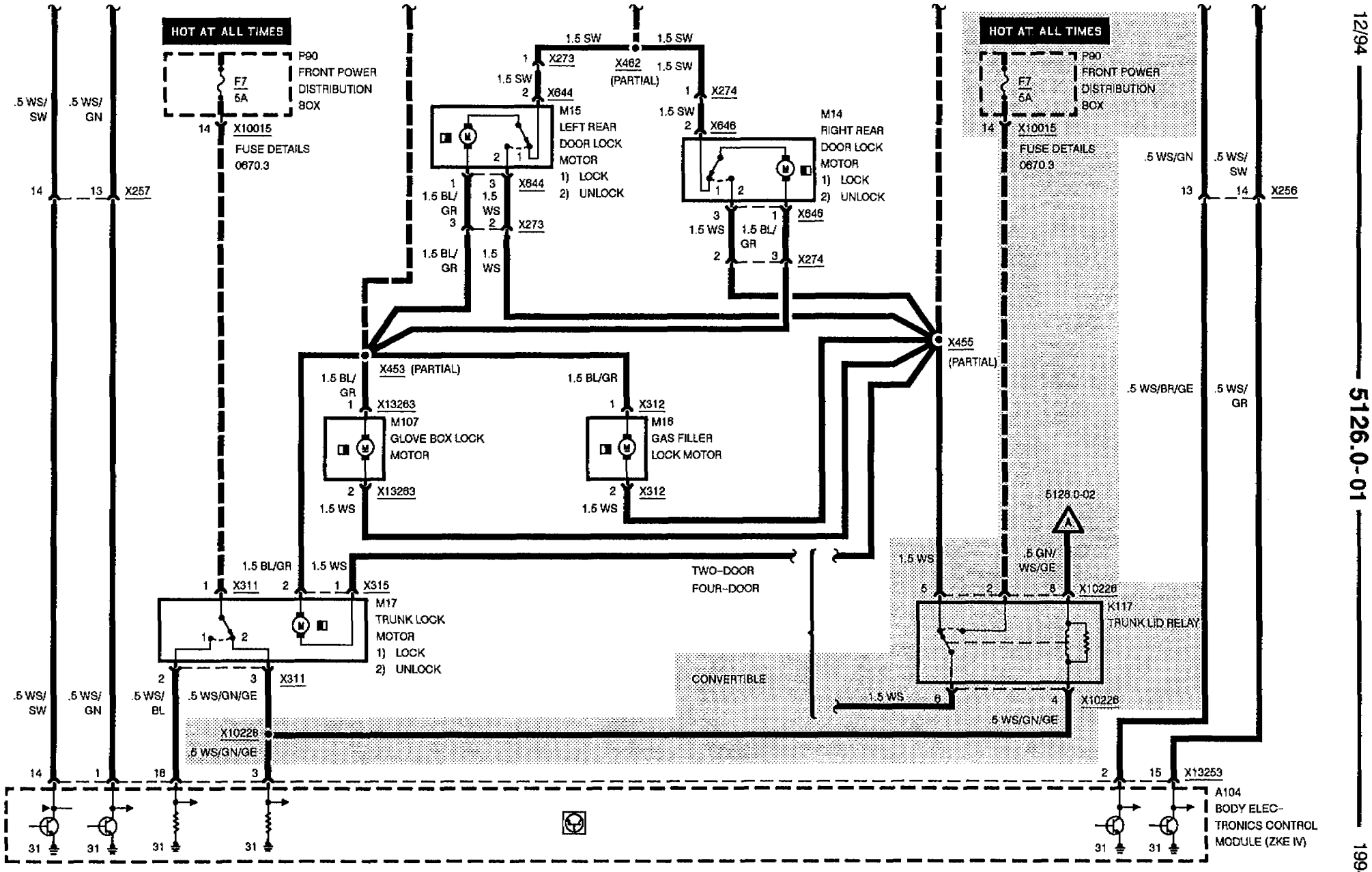
ZKE DOOR LOCK HEATING (TSH)



ZKE CENTRAL LOCKING (ZV)

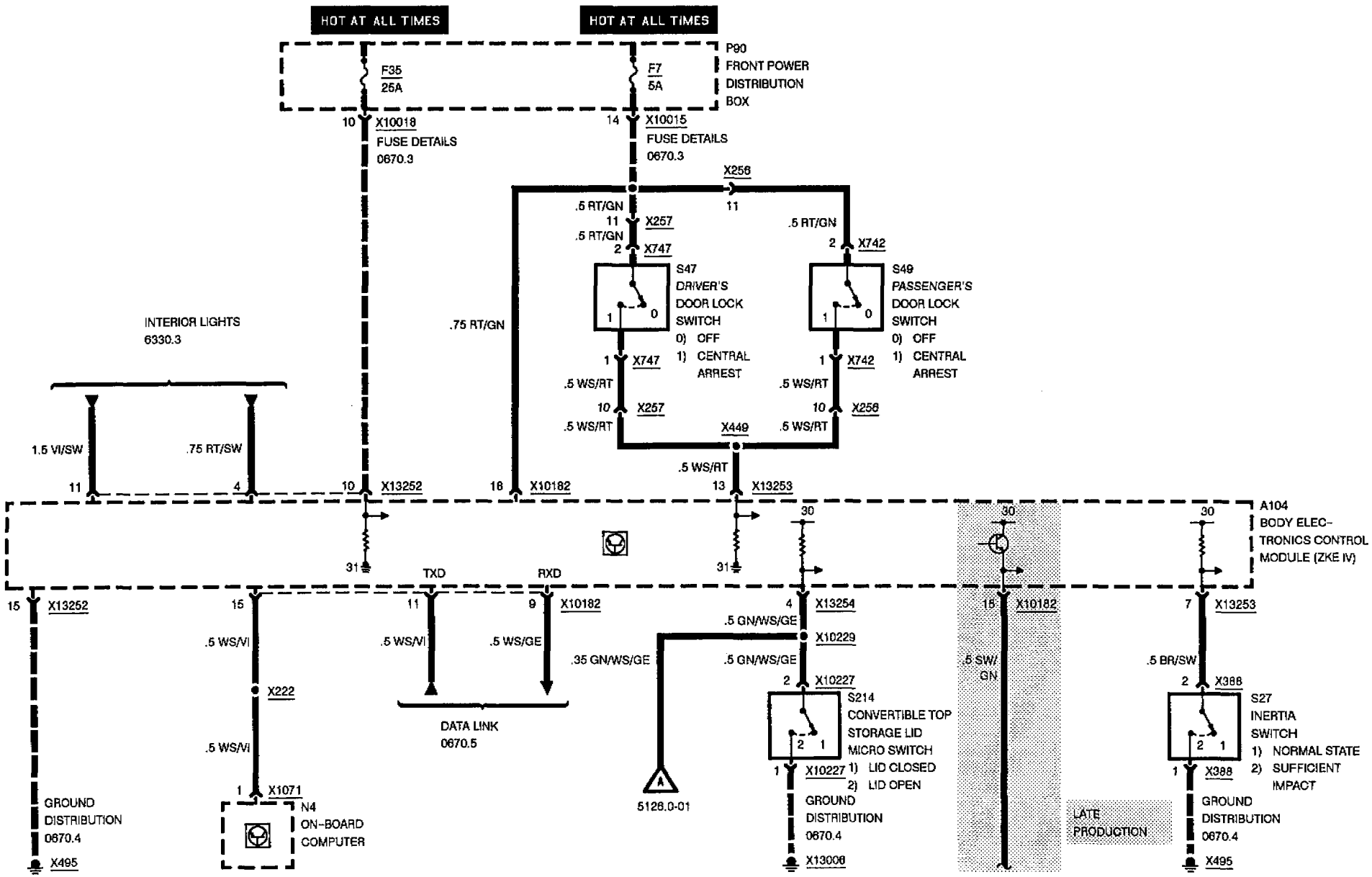
OUTPUT DETAILS

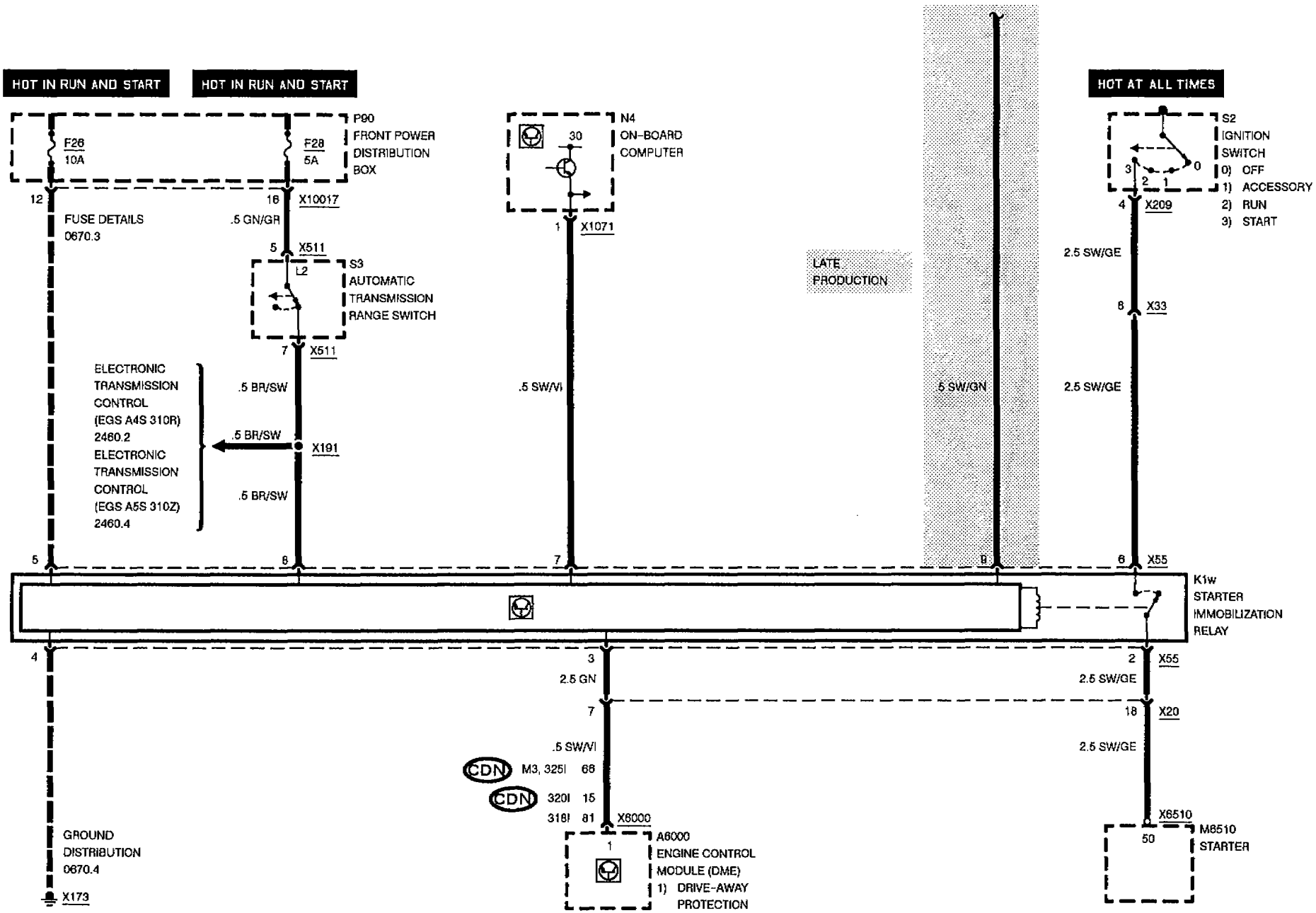



HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F7
5A
X10015
FUSE DETAILS
0670.3
HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F7
5A
X10015
FUSE DETAILS
0670.3
.5 WS/SW
.5 WS/GN
.5 WS/BL
.5 WS/GN/GE
.5 WS/BR/GE
.5 WS/GR
1.5 SW
1.5 BL/GR
1.5 WS
.5 GN/WS/GE
X257
X256
X273
X462 (PARTIAL)
X274
X644
X646
M15
LEFT REAR DOOR LOCK MOTOR
1) LOCK
2) UNLOCK
M14
RIGHT REAR DOOR LOCK MOTOR
1) LOCK
2) UNLOCK
X453 (PARTIAL)
X455 (PARTIAL)
X13263
X312
M107
GLOVE BOX LOCK MOTOR
M18
GAS FILLER LOCK MOTOR
X311
X315
M17
TRUNK LOCK MOTOR
1) LOCK
2) UNLOCK
TWO-DOOR
FOUR-DOOR
CONVERTIBLE
5126.0-02
X10226
K117
TRUNK LID RELAY
X13253
A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)
31

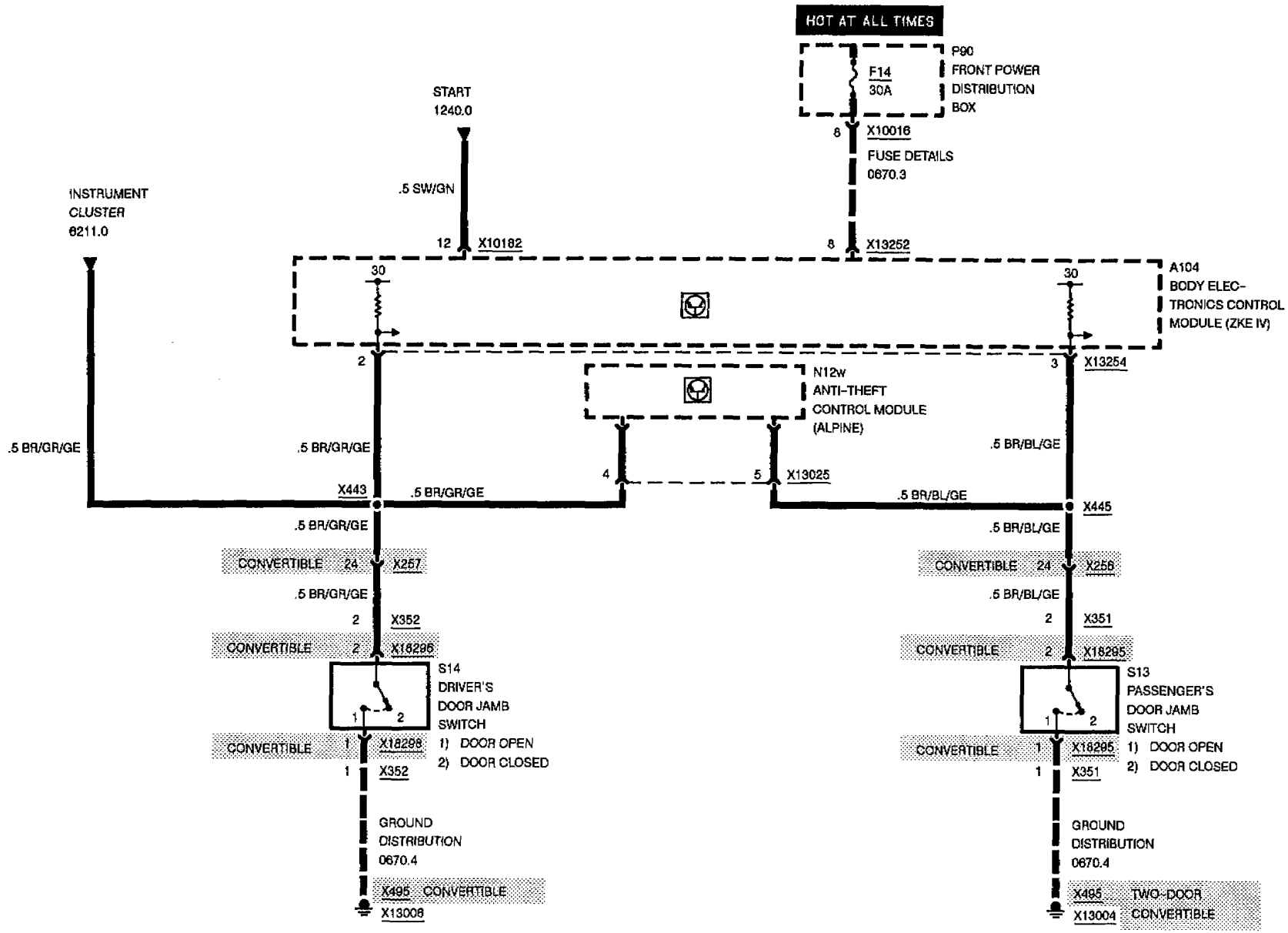
ZKE CENTRAL LOCKING (ZV)

EARLY PRODUCTION



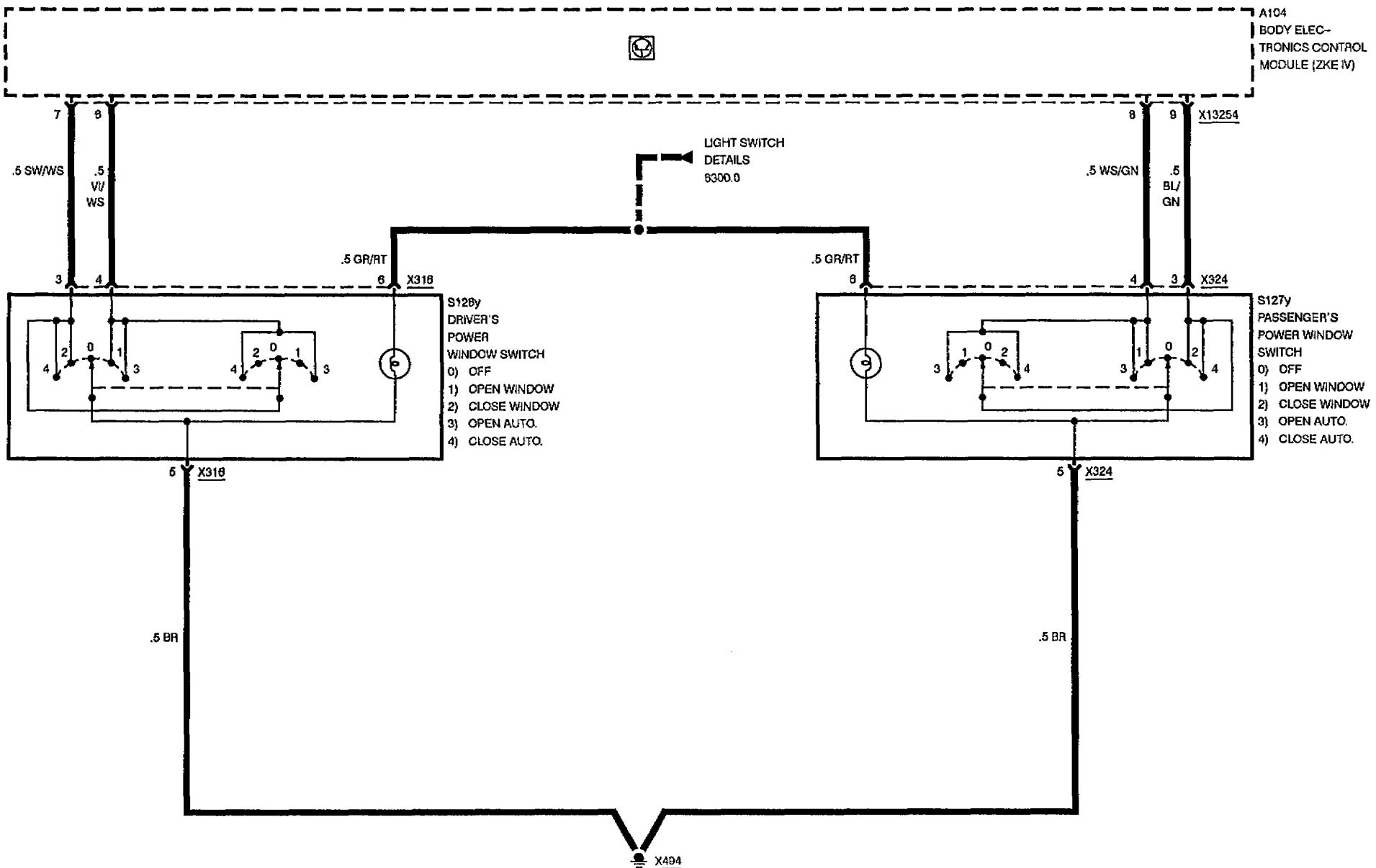

HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F26
10A
F28
5A
FUSE DETAILS
0670.3
X10017
.5 GN/GR
X511
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L2
X511
ELECTRONIC
TRANSMISSION
CONTROL
(EGS A4S 310R)
2460.2
ELECTRONIC
TRANSMISSION
CONTROL
(EGS A5S 310Z)
2460.4
.5 BR/SW
.5 BR/SW
.5 BR/SW
X191
N4
ON-BOARD
COMPUTER
30
X1071
.5 SW/VI
LATE
PRODUCTION
5 SW/GN
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
X209
2.5 SW/GE
X33
2.5 SW/GE
X55
K1w
STARTER
IMMOBILIZATION
RELAY
2.5 GN
X55
2.5 SW/GE
X20
2.5 SW/GE
.5 SW/VI
CDN M3, 325I 66
CDN 320I 15
318I 81
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1) DRIVE-AWAY
PROTECTION
X6510
M6510
STARTER
GROUND
DISTRIBUTION
0670.4
X173

POWER WINDOWS (FH)
INPUT DETAILS



POWER WINDOWS (FH)

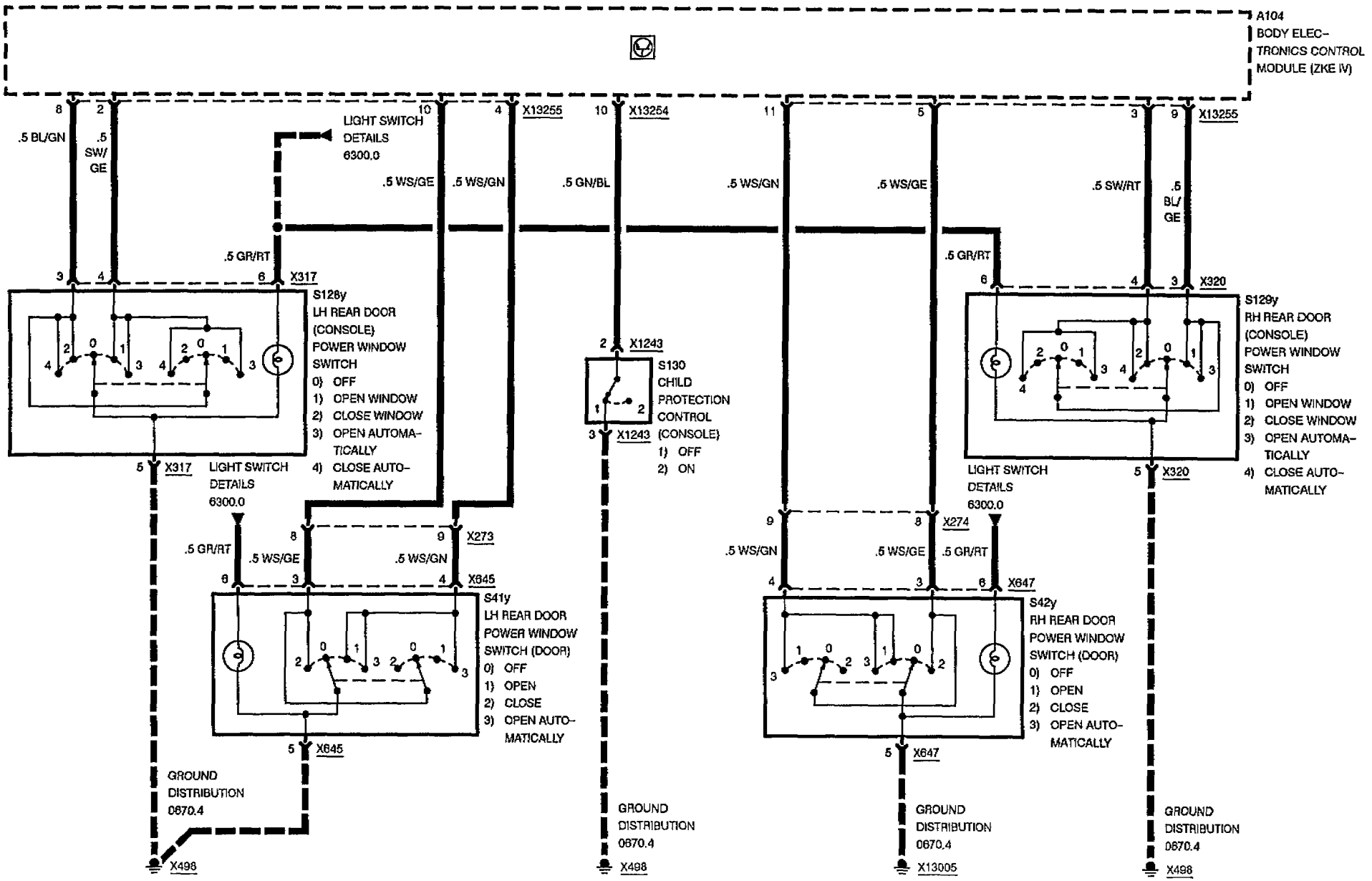
INPUT DETAILS



POWER WINDOWS (FH)

INPUT DETAILS

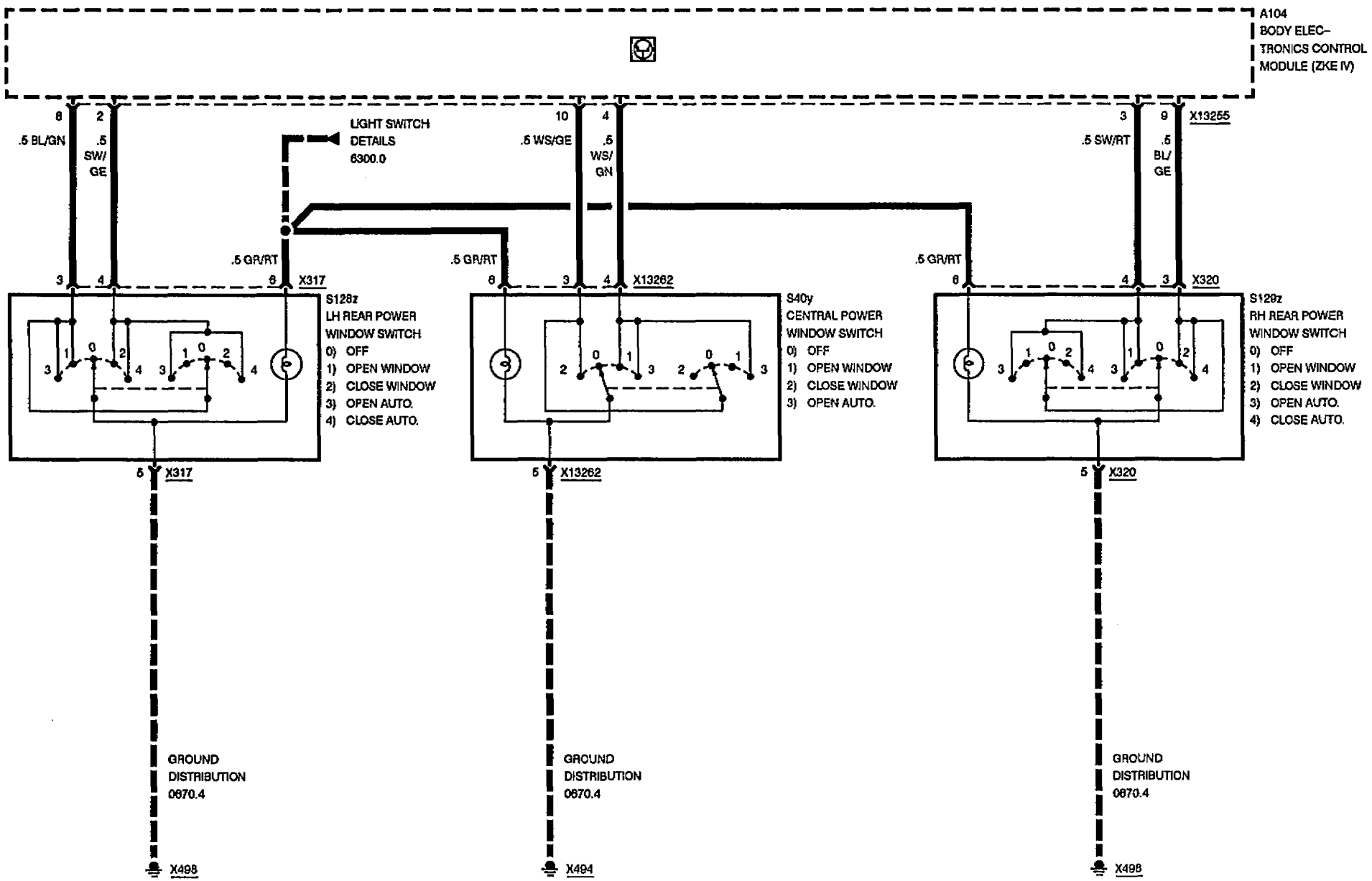
FOUR-DOOR



POWER WINDOWS (FH)

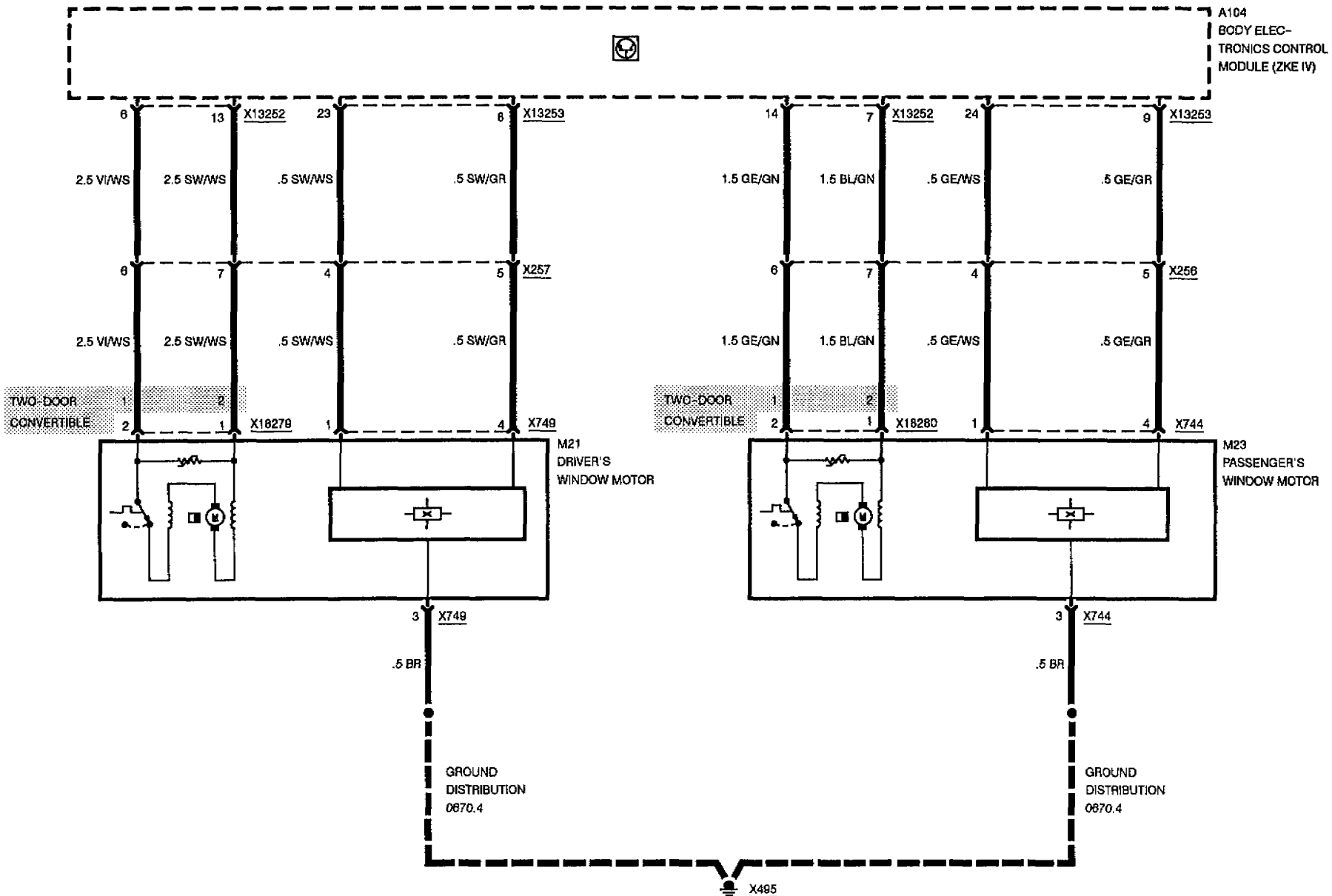
CONVERTIBLE

INPUT DETAILS



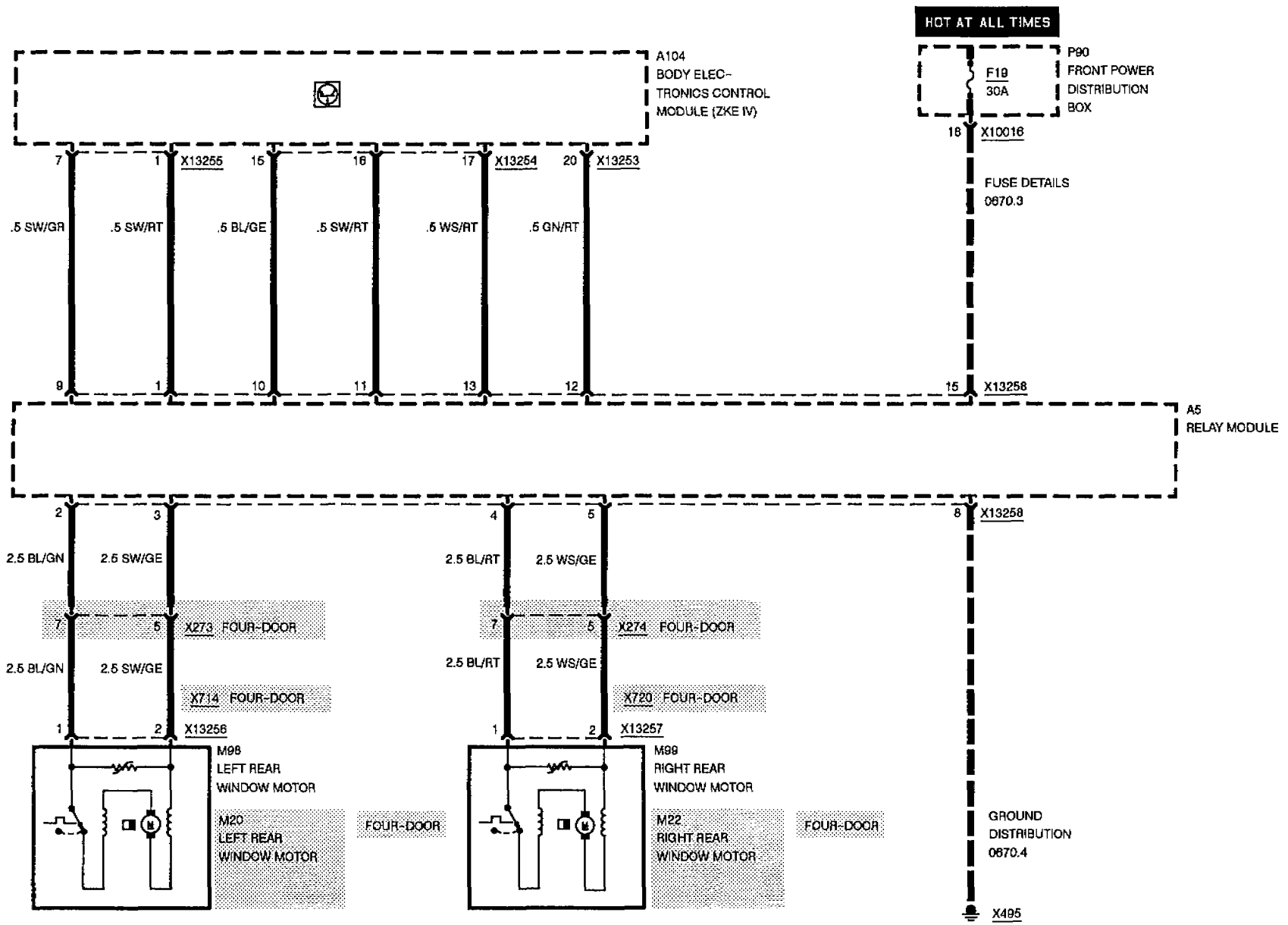
POWER WINDOWS (FH)

OUTPUT DETAILS



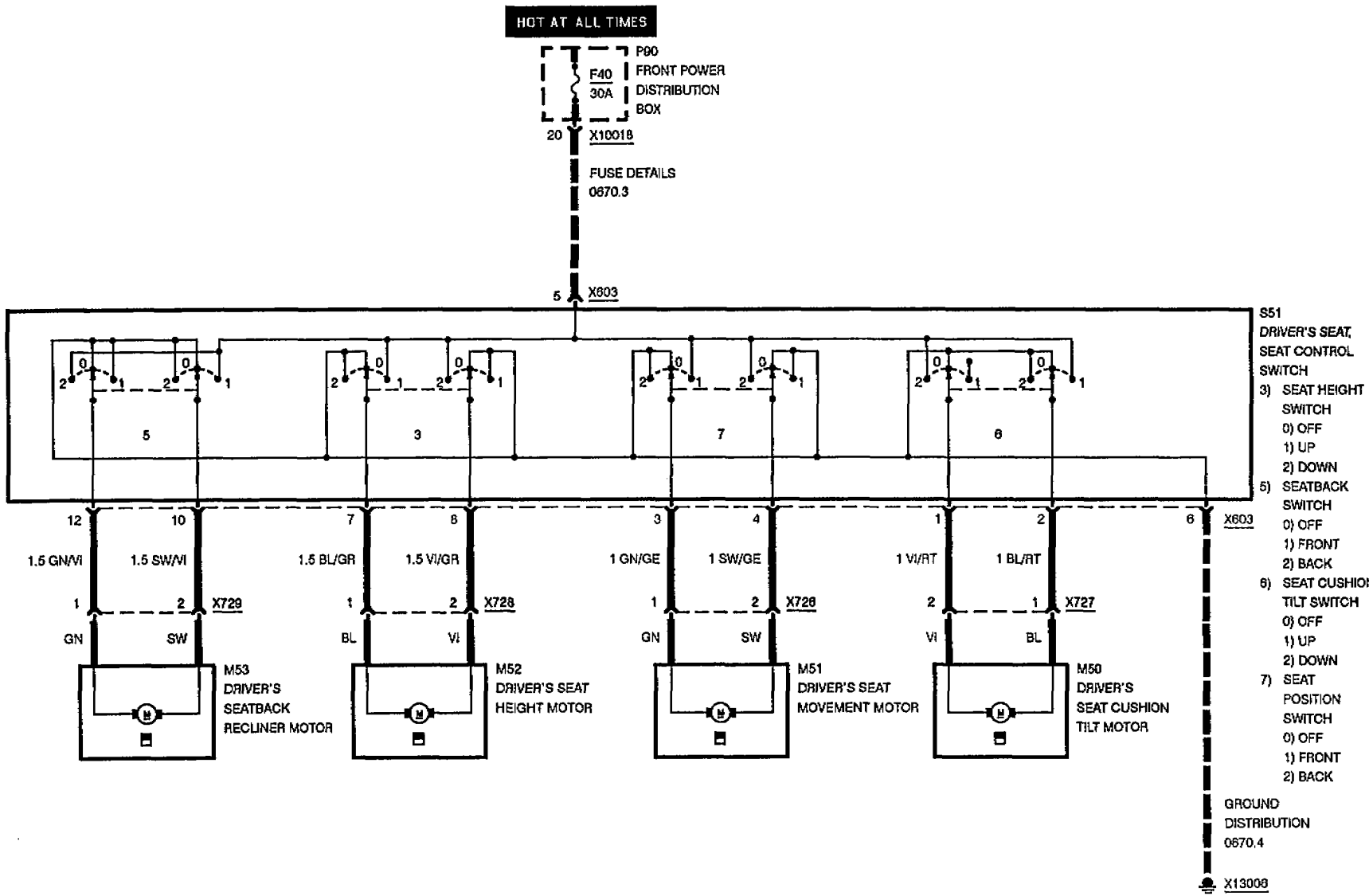
POWER WINDOWS (FH)

OUTPUT DETAILS



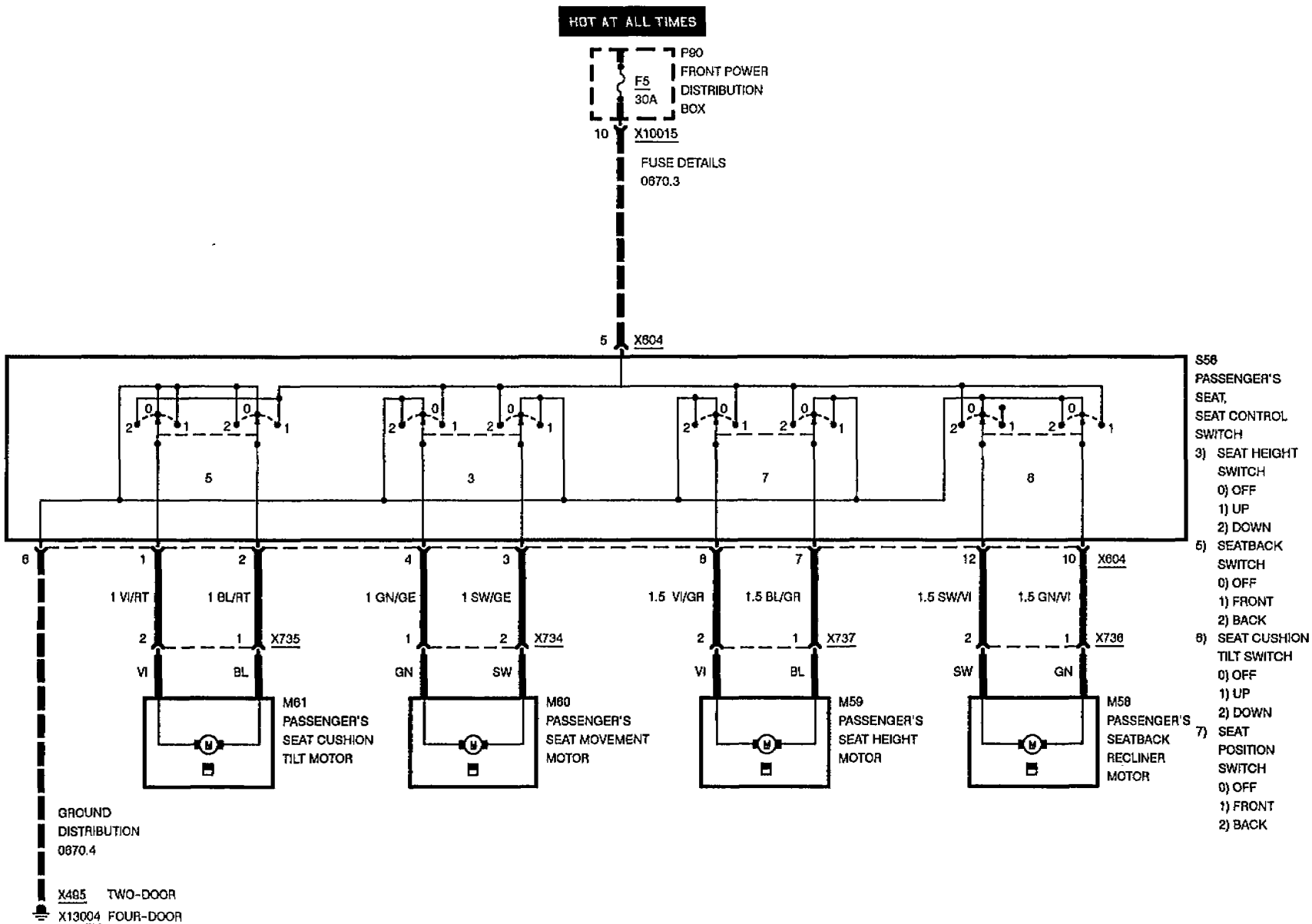
POWER SEATS

DRIVER'S SEAT

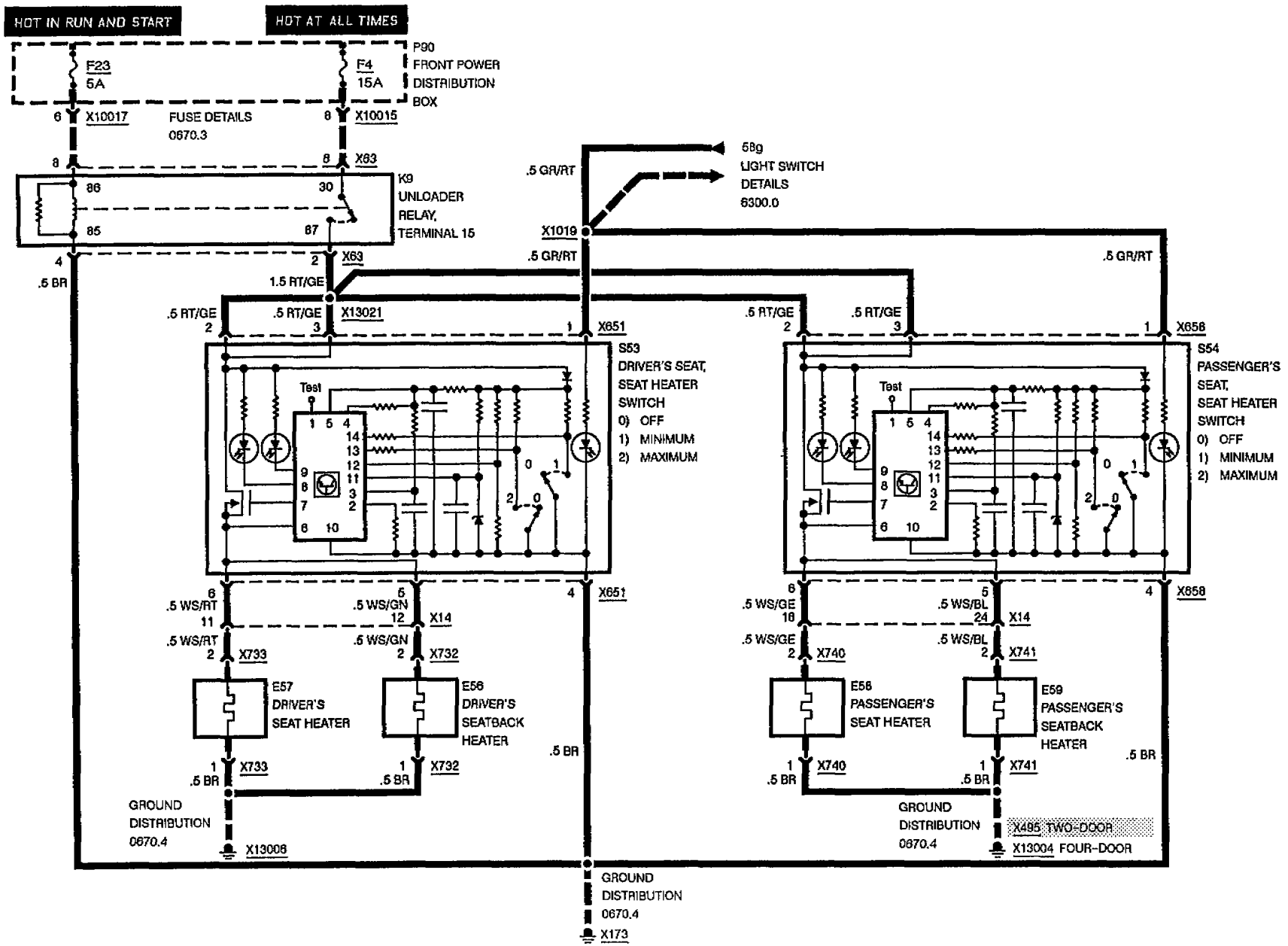


POWER SEATS

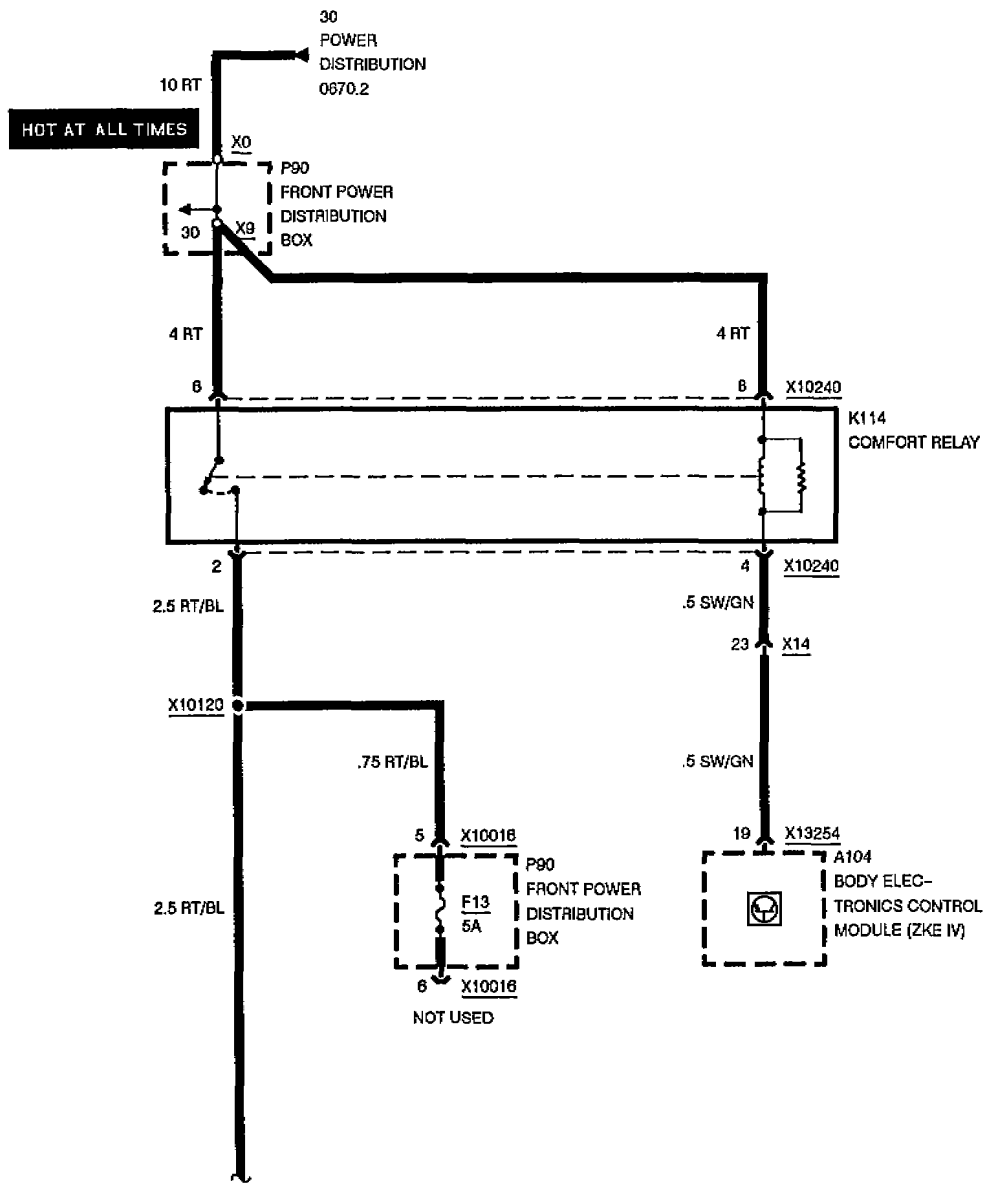
PASSENGER'S SEAT

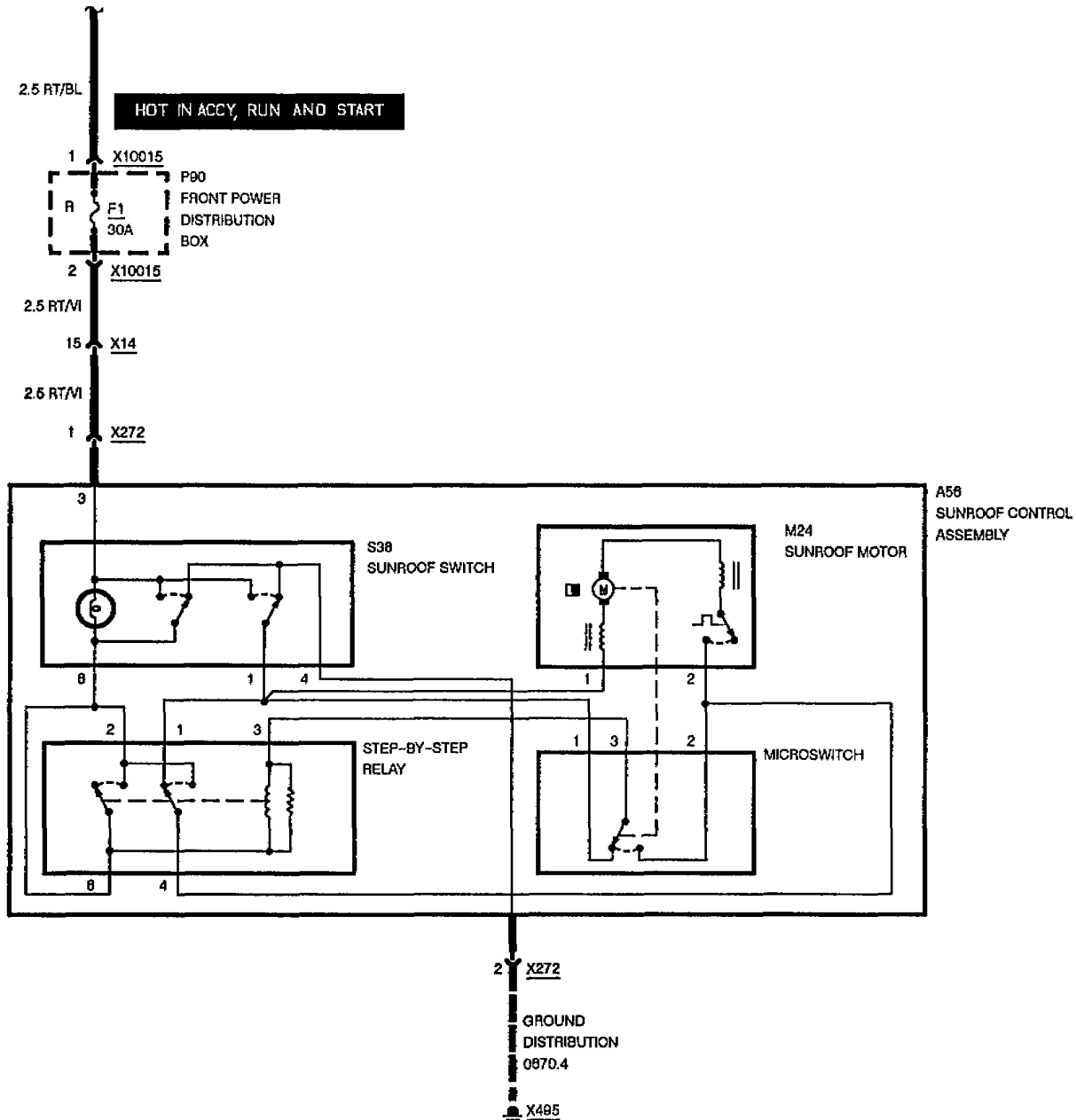


HEATED SEATS

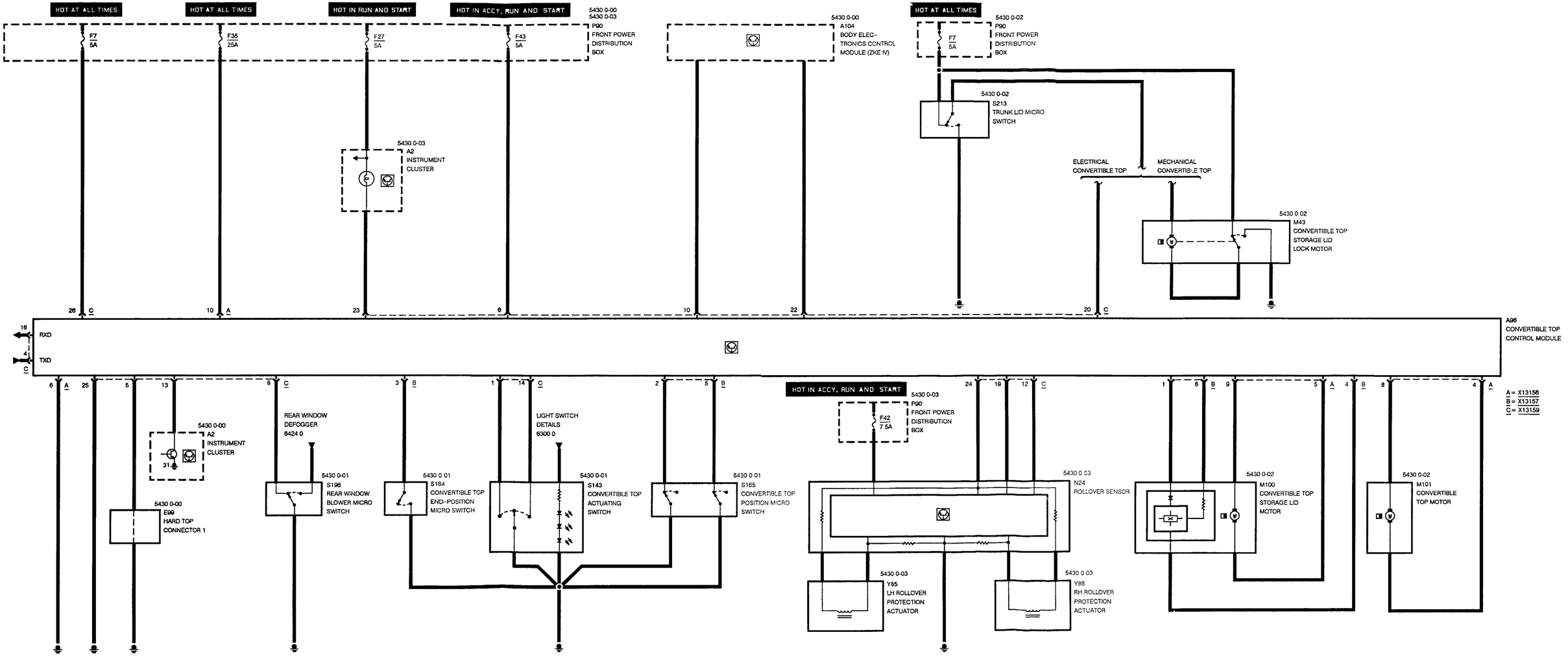


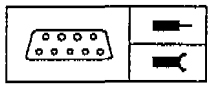
POWER SUN ROOF (SHD)




2.5 RT/BL
HOT IN ACCY, RUN AND START
1
X10015
P90
FRONT POWER
DISTRIBUTION
BOX
R
F1
30A
2
X10015
2.5 RT/VI
15
X14
2.5 RT/VI
1
X272
3
A56
SUNROOF CONTROL
ASSEMBLY
S38
SUNROOF SWITCH
M24
SUNROOF MOTOR
6
1
4
1
2
2
1
3
STEP-BY-STEP
RELAY
1
3
2
MICROSWITCH
6
4
2
X272
GROUND
DISTRIBUTION
0670.4
X485

12/94 5430 0 1994
12/94 5430 0 1994





Pin Assignments

A = X13156	10 Pins, black
B = X13157	6 Pins, black
C = X13159	26 Pins, black

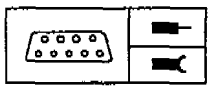
X13156

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground
7		Not used	
8	E/A	Control signal	Convertible top motor
9	E/A	Control signal	Convertible top storage lid motor
10	E	Plus supply 12V	Front power distribution box

X13157

Pin	Type	Description/Function	Connection
1	A	Plus supply	Position sensor (convertible top storage lid motor)
2	E	Position signal	Convertible top position micro switch
3	E	Position signal	Convertible top end position micro switch
4	E	Component ground	Position sensor (convertible top storage lid motor)
5	E	Position signal	Convertible top position micro switch
6	E	Control signal	Position sensor (convertible top storage lid motor)

E = Input, A = Output, M = Ground



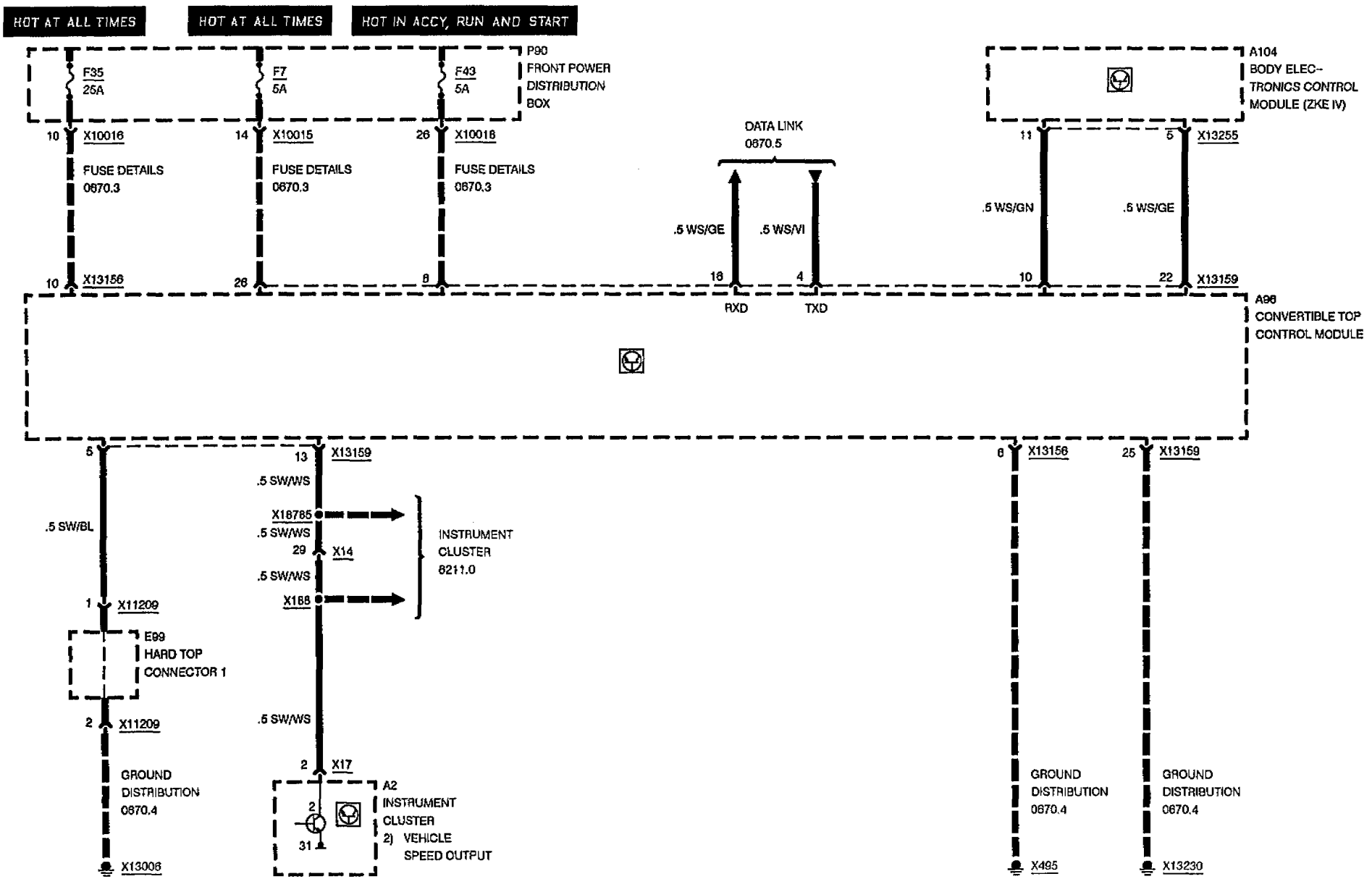
Pin Assignments

X13159

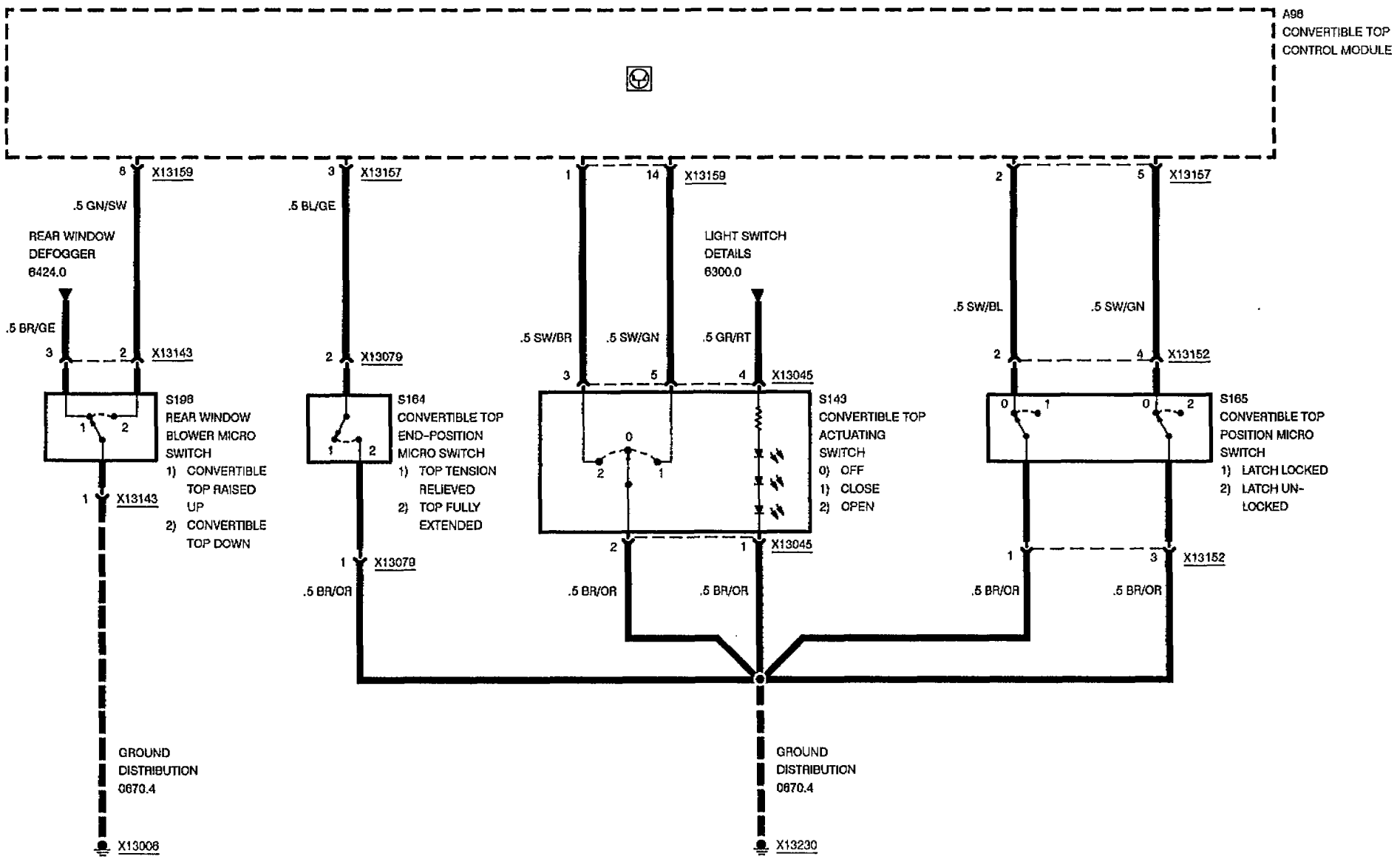
Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box
7		Not used	
8	E	Rear window blower signal	Rear window blower micro switch
9		Not used	
10	A	Data signal	Body electronics control module
11		Not used	
12	A	Data signal	Roll over sensor
13	A	Speed signal	Instrument cluster
14	E	Top closed signal	Convertible top actuating switch
15		Not used	
16	A	RxD data signal	Data link connector
17		Not used	
18		Not used	
19	A	Data signal	Roll-over sensor
20	E	Trunk lid signal	Trunk lid micro switch
21		Not used	
22	A	Data signal	Body electronics control module
23	A	Roll-over signal	Instrument cluster
24	A	Data signal	Roll-over sensor
25	M	Ground	Ground
26	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

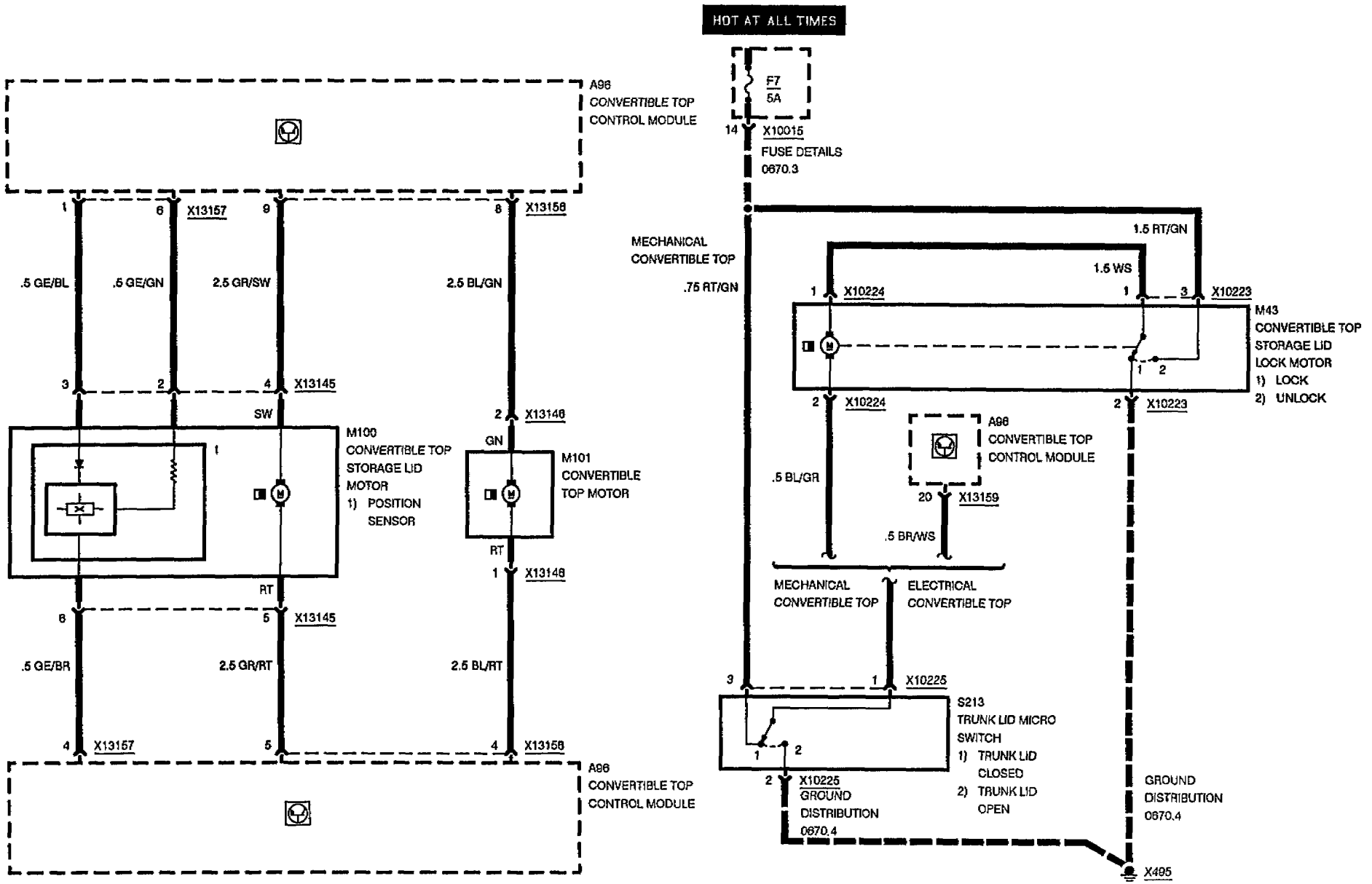
ELECTRO- MECHANICAL CONVERTIBLE TOP



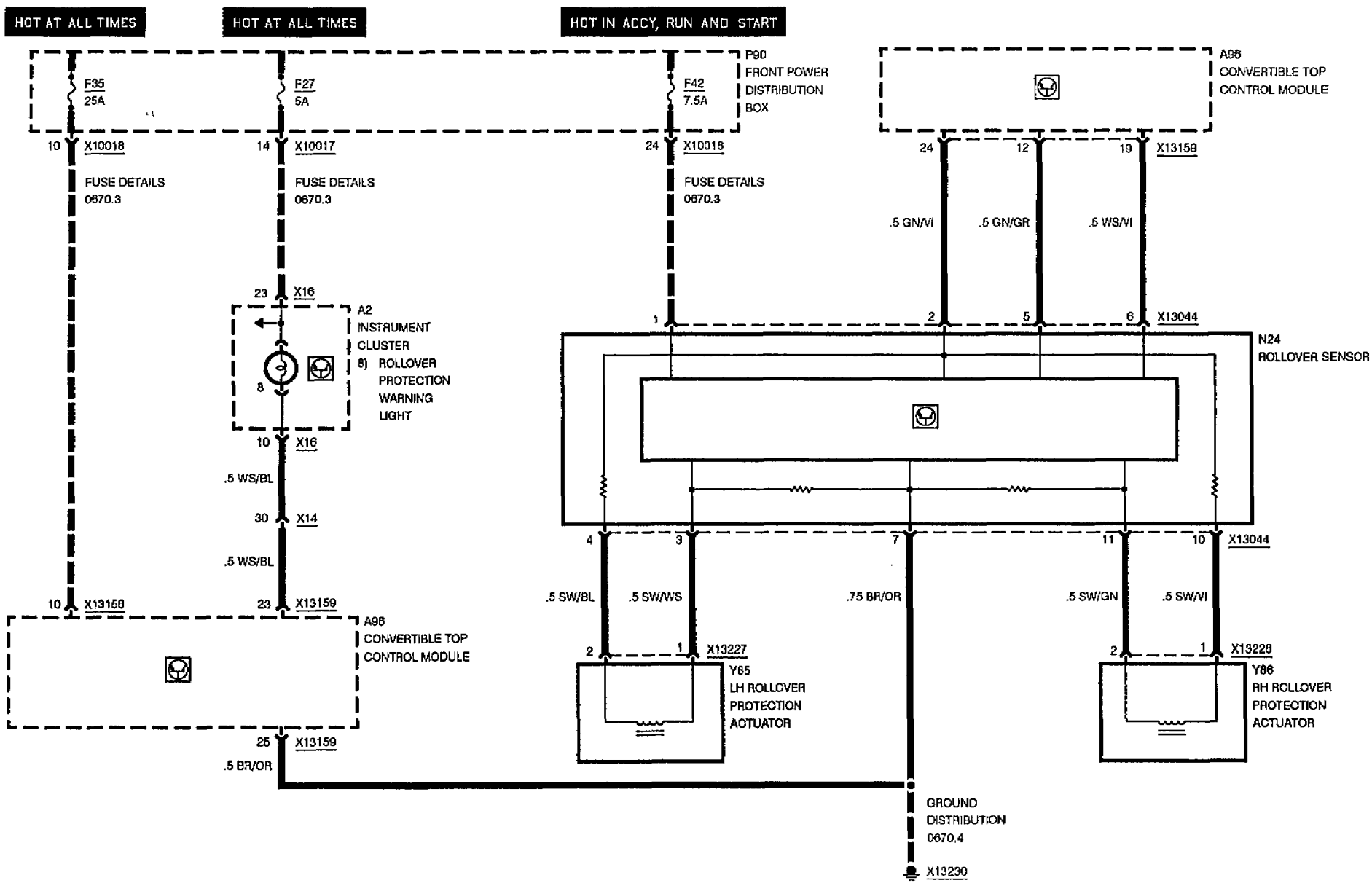
ELECTRO- MECHANICAL CONVERTIBLE TOP

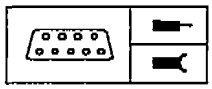


ELECTRO- MECHANICAL CONVERTIBLE TOP



ELECTRO- MECHANICAL CONVERTIBLE TOP





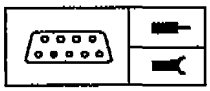
Pin Assignments

Pin	Type	Description/Function	Connection
11	E	Convertible: DATA-signal Four-door: OPEN-signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13258

Pin	Type	Description/Function	Connection
1	E	DATA-signal	Central body electronic module
2	A	Voltage supply (motor)	Power window motor right rear
3	E	Signal	Power window motor right rear
4	E	Signal	Power window motor left rear
5	A	Voltage supply (motor)	Power window motor left rear
6		Not used	
7		Not used	
8	M	Ground	Ground
9	E	DATA-signal	Central body electronic module
10	E/A	DATA-signal	Central body electronic module
11	E/A	DATA-signal	Central body electronic module

E = Input, A = Output, M = Ground

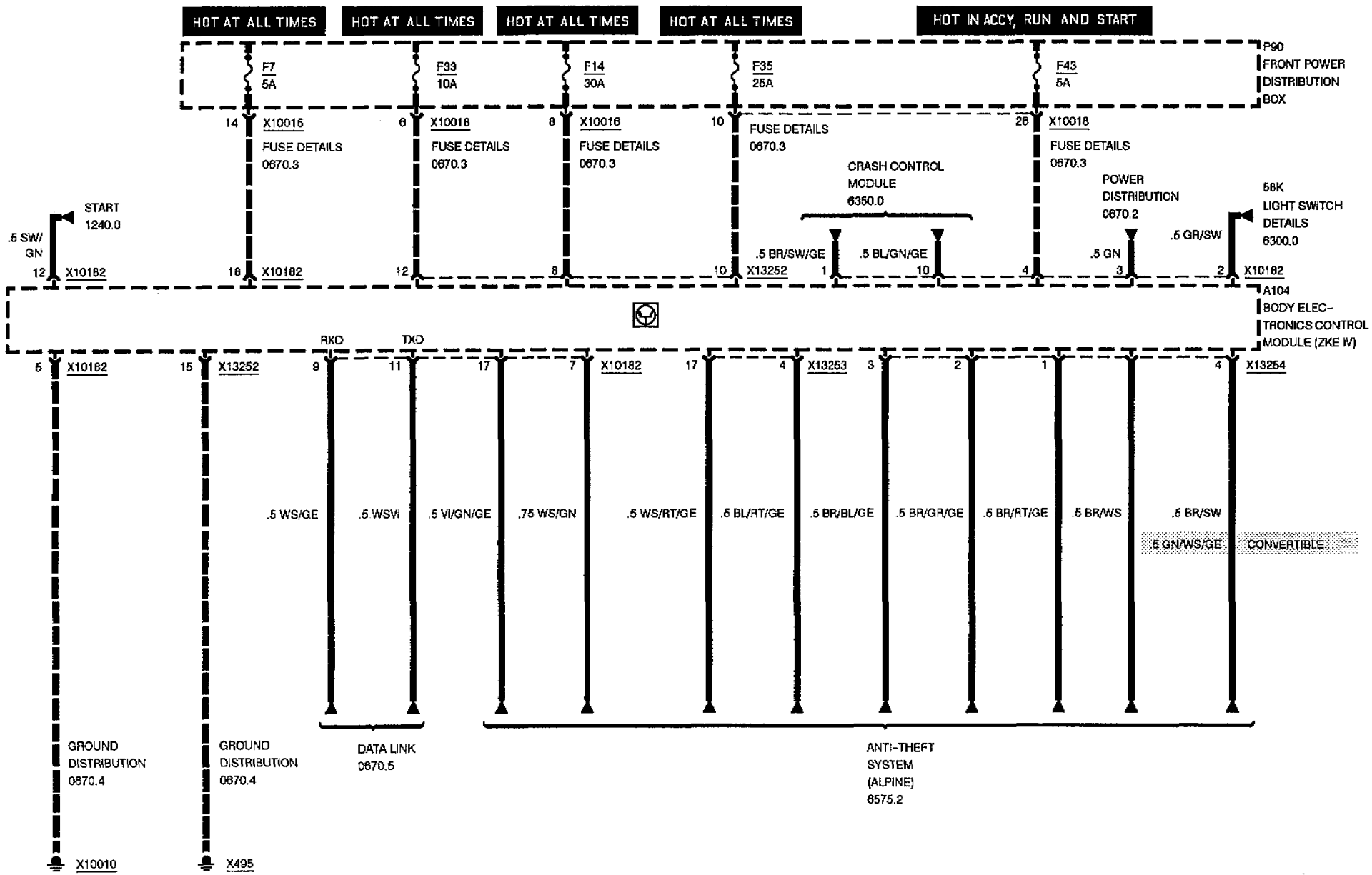


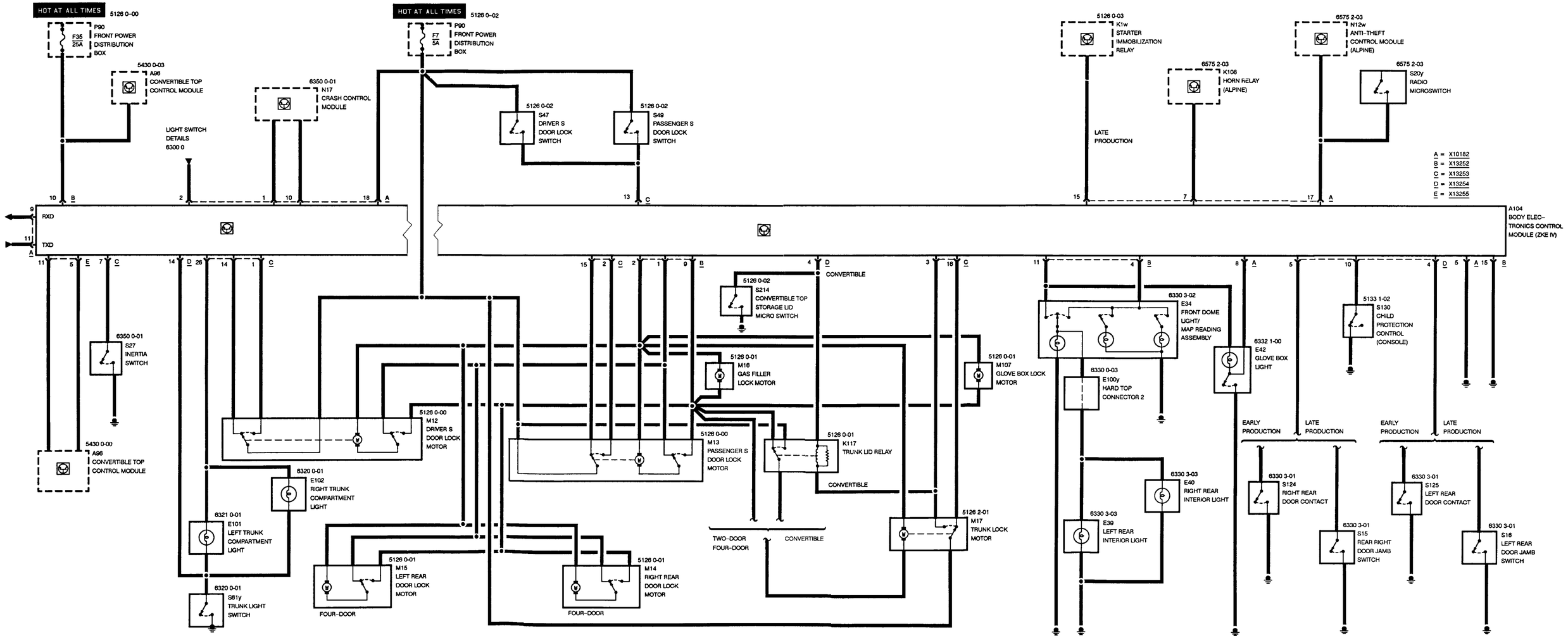
Pin Assignments

Pin	Type	Description/Function	Connection
12	E	DATA-signal	Central body electronic module
13	E/A	DATA-signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

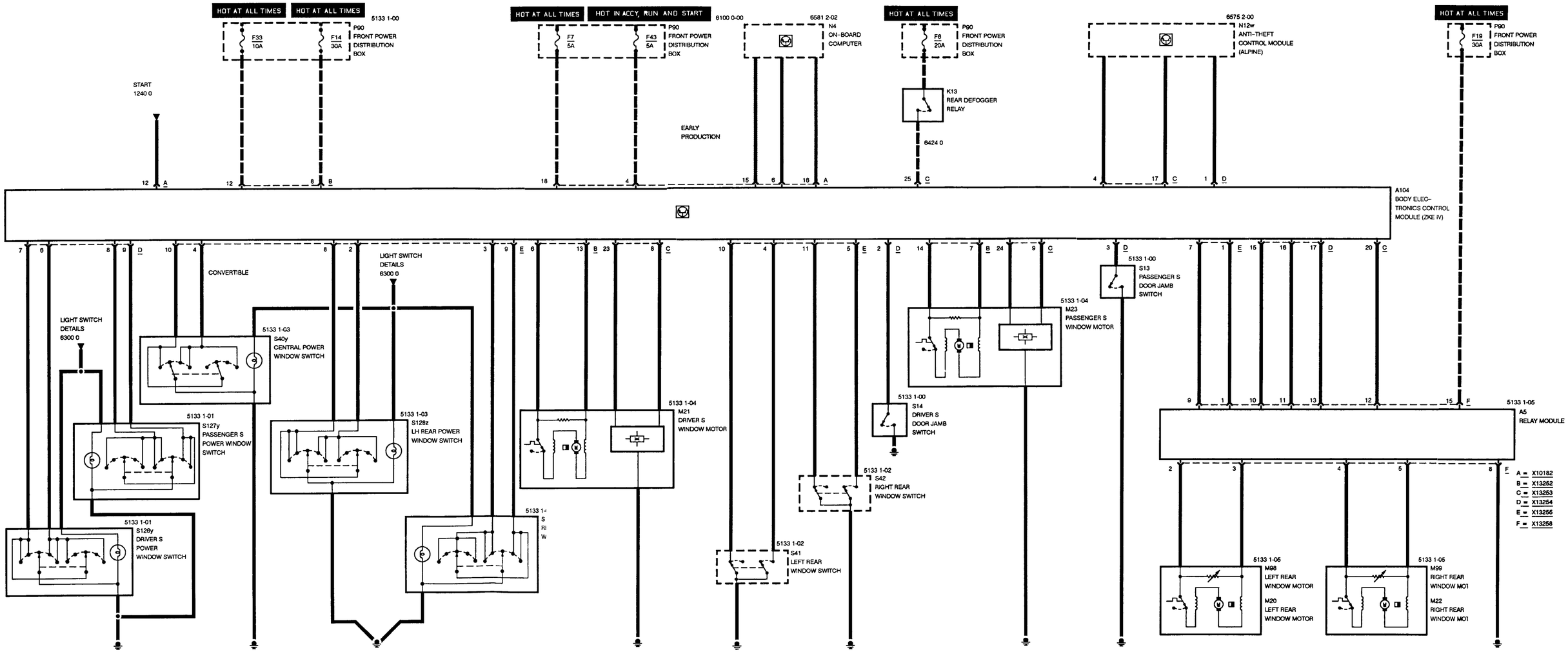
E = Input, A = Output, M = Ground

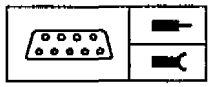
CENTRAL BODY ELECTRONICS (ZKE IV)




HOT AT ALL TIMES
5126 0-00
F35 25A
P90 FRONT POWER DISTRIBUTION BOX
5430 0-03 A96 CONVERTIBLE TOP CONTROL MODULE
LIGHT SWITCH DETAILS 6300 0
6350 0-01 N17 CRASH CONTROL MODULE
HOT AT ALL TIMES
5126 0-02
F7 5A
P90 FRONT POWER DISTRIBUTION BOX
5126 0-02 S47 DRIVER S DOOR LOCK SWITCH
5126 0-02 S49 PASSENGER S DOOR LOCK SWITCH
5126 0-03 K1w STARTER IMMOBILIZATION RELAY
LATE PRODUCTION
6575 2-03 K108 HORN RELAY (ALPINE)
6575 2-03 N12w ANTI-THEFT CONTROL MODULE (ALPINE)
6575 2-03 S20y RADIO MICROSWITCH
A = X10182
B = X13252
C = X13253
D = X13254
E = X13255
RXD
TXD
A104 BODY ELEC-TRONICS CONTROL MODULE (ZKE IV)
6350 0-01 S27 INERTIA SWITCH
5430 0-00 A96 CONVERTIBLE TOP CONTROL MODULE
5126 0-00 M12 DRIVER S DOOR LOCK MOTOR
6320 0-01 E102 RIGHT TRUNK COMPARTMENT LIGHT
6321 0-01 E101 LEFT TRUNK COMPARTMENT LIGHT
6320 0-01 S81y TRUNK LIGHT SWITCH
5126 0-01 M15 LEFT REAR DOOR LOCK MOTOR
FOUR-DOOR
5126 0-01 M14 RIGHT REAR DOOR LOCK MOTOR
FOUR-DOOR
5126 0-02 S214 CONVERTIBLE TOP STORAGE LID MICRO SWITCH
CONVERTIBLE
5126 0-01 M16 GAS FILLER LOCK MOTOR
5126 0-00 M13 PASSENGER S DOOR LOCK MOTOR
5126 0-01 K117 TRUNK LID RELAY
CONVERTIBLE
TWO-DOOR FOUR-DOOR
CONVERTIBLE
5126 0-01 M107 GLOVE BOX LOCK MOTOR
5126 2-01 M17 TRUNK LOCK MOTOR
6330 3-02 E34 FRONT DOME LIGHT/ MAP READING ASSEMBLY
6330 0-03 E100y HARD TOP CONNECTOR 2
6330 3-03 E40 RIGHT REAR INTERIOR LIGHT
6330 3-03 E39 LEFT REAR INTERIOR LIGHT
6332 1-00 E42 GLOVE BOX LIGHT
5133 1-02 S130 CHILD PROTECTION CONTROL (CONSOLE)
EARLY PRODUCTION
LATE PRODUCTION
6330 3-01 S124 RIGHT REAR DOOR CONTACT
6330 3-01 S15 REAR RIGHT DOOR JAMB SWITCH
EARLY PRODUCTION
LATE PRODUCTION
6330 3-01 S125 LEFT REAR DOOR CONTACT
6330 3-01 S16 LEFT REAR DOOR JAMB SWITCH

12/94 6100 0b 1994
12/94 6100 0b 1994





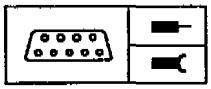
Pin Assignments

A = X10182	18 Pins, black
B = X13252	15 Pins, yellow
C = X13253	26 Pins, yellow
D = X13254	26 Pins, green
E = X13255	26 Pins, natural
F = X13258	15 Pins, white

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3		Not used	
4	E	Power supply	Front power distribution box
5	M	Ground	Ground
6	A	Drive away protection	Board computer
7	A	Alpine horn signal	Alpine horn relay
8	E	Glove box signal	Glove box light
9	A	Diagnosis RxD-signal	Data link connector
10	E	Crash signal	Crash control unit
11	E/A	Diagnosis TxD-signal	Data link connector
12	E	Starter-signal, terminal 30h	Starter
13		Not used	
14		Not used	
15	A	Drive away protection	Starter immobilization relay (late production)
15	A	Drive away protection	On board computer (early production)
16	A	Data signal	On board computer
17	E	Hood/radio signal	Hood/radio micro switches
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



Pin Assignments

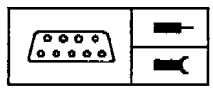
X13252

Pin	Type	Description/Function	Connection
1	E	Power lock signal	Door lock motors
2	A	Voltage supply	All lock motors
3		Not used	
4	A	Voltage supply	Interior lights, engine compartment light, glove box light
5		Not used	
6	A	Voltage supply	Power window motor driver's door
7	A	Voltage supply	Power window motor passenger's door
8	E	Power supply	Front power distribution box
9	E	Lock signal	Lock motor & trunk lid relay
10	E	Power supply	Front power distribution box
11	E	Automatic interior light signal	Interior light
12	E	Power supply	Front power distribution box
13	E	Motor signal	Power window motor driver's door
14	E	Motor signal	Power window motor passenger's door
15	M	Ground	Ground

X13253

Pin	Type	Description/Function	Connection
1	E	Position signal	Door lock motor driver's door
2	E	Position signal	Door lock motor passenger's door
3	E	Lock signal trunk lid	Trunk lid lock motor, trunk lid relay
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Inertia switch
8	E	Revolution signal	Power window motor driver's door
9	E	Revolution signal	Power window motor passenger's door
10		Not used	

E = Input, A = Output, M = Ground



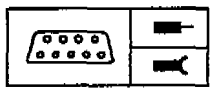
Pin Assignments

Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal driver's door	Door lock motor driver's door
15	E	Lock signal passenger's door	Door lock motor passenger's door
16	E	Lock signal trunk lid	Trunk lid lock motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19		Not used	
20	E/A	Data signal	Relay module
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window's motor driver's side
24	A	Voltage supply (revolution)	Power window's motor passenger's side
25	E	Power supply	Front power distribution box
26	A	Voltage supply	Luggage compartment lights

X13254

Pin	Type	Description/Function	Connection
1	E	Drive-away protection	Anti-theft control module
2	E	Door-signal	Door jamb switch driver's door
3	E	Door-signal	Door jamb switch passenger's door
4	E	Convertible: trunk lid signal Four-door: door-signal	Trunk lid switch/trunk lid relay Door jamb switch left rear
5	E	Door signal	Door jamb switch right rear
6	E	OPEN-signal	Power window switch driver's door
7	E	CLOSE-signal	Power window switch driver's door
8	E	OPEN-signal	Power window switch passenger's door
9	E	CLOSE-signal	Power window switch passenger's door
10	E	Four-door: child protection signal	Child protection switch
11		Not used	

E = Input, A = Output, M = Ground



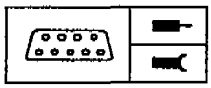
Pin Assignments

Pin	Type	Description/Function	Connection
12		Not used	
13		Not used	
14	E	Trunk light signal	Trunk light switch
15	A	DATA - signal	Relay module
16	A	DATA - signal	Relay module
17	A	DATA - signal	Relay module
18		Not used	
19	A	Four-door: CORRECT - signal	Comfort relay
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13255

Pin	Type	Description/Function	Connection
1	A	DATA-signal	Relay module
2	E	OPEN-signal	Power window switch left rear
3	E	OPEN-signal	Power window switch right rear
4	E	Convertible: OPEN-signal Four-door: OPEN-signal	Main power window switch Driver's rear window switch
5	E	Convertible: DATA-signal Four-door: CLOSE-signal	Convertible top control module Passenger's rear window switch
6		Not used	
7	A	DATA-signal	Relay module
8	E	CLOSE-signal	Power window switch left rear
9	E	CLOSE-signal	Power window switch right rear
10	E	Convertible: CLOSE-signal Four-door: CLOSE-signal	Main power window switch Driver's window switch

E = Input, A = Output, M = Ground



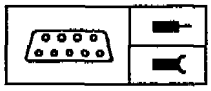
Pin Assignments

Pin	Type	Description/Function	Connection
11	E	Convertible: DATA-signal Four-door: OPEN-signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13258

Pin	Type	Description/Function	Connection
1	E	DATA-signal	Central body electronic module
2	A	Voltage supply (motor)	Power window motor right rear
3	E	Signal	Power window motor right rear
4	E	Signal	Power window motor left rear
5	A	Voltage supply (motor)	Power window motor left rear
6		Not used	
7		Not used	
8	M	Ground	Ground
9	E	DATA-signal	Central body electronic module
10	E/A	DATA-signal	Central body electronic module
11	E/A	DATA-signal	Central body electronic module

E = Input, A = Output, M = Ground

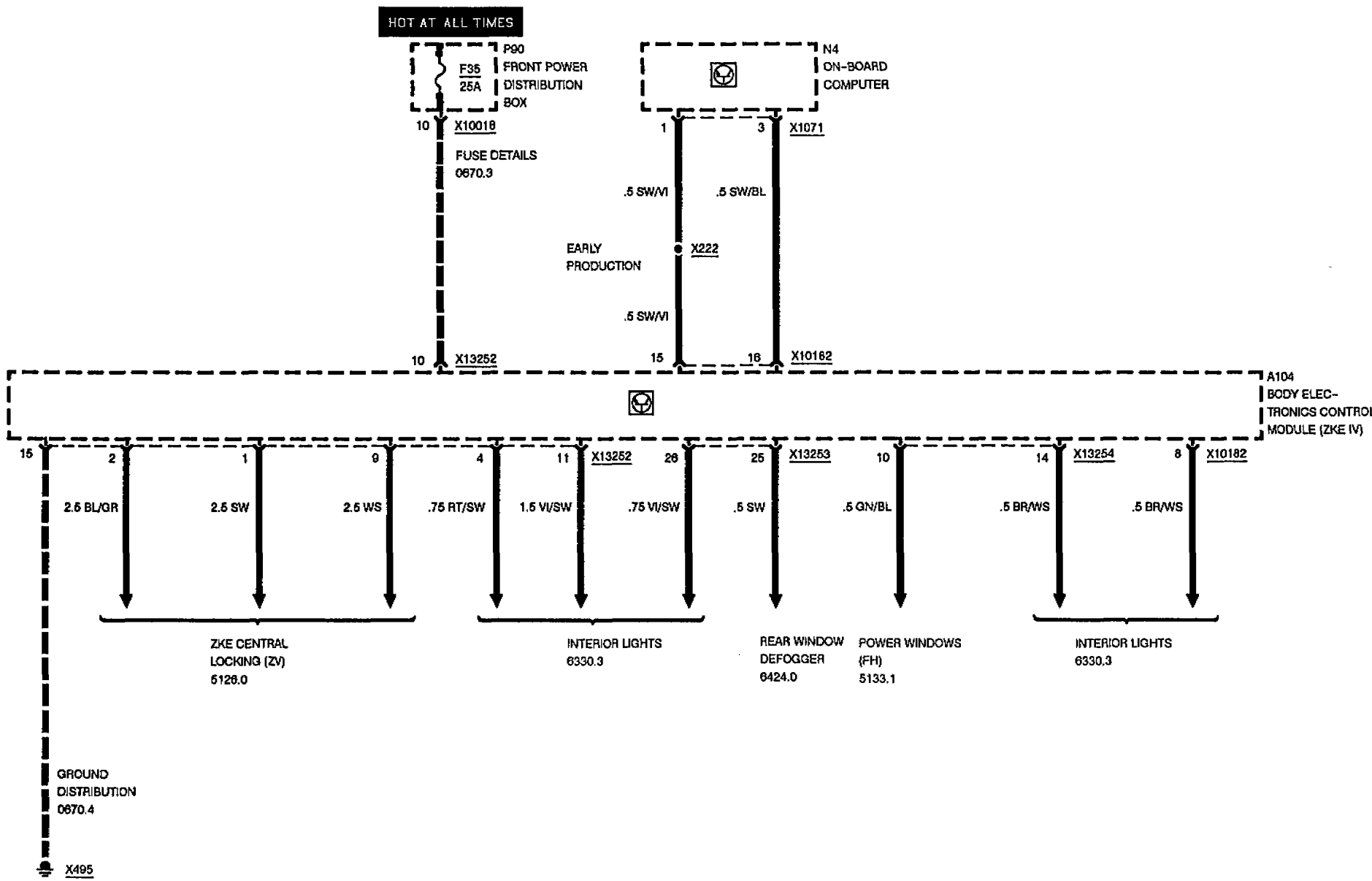


Pin Assignments

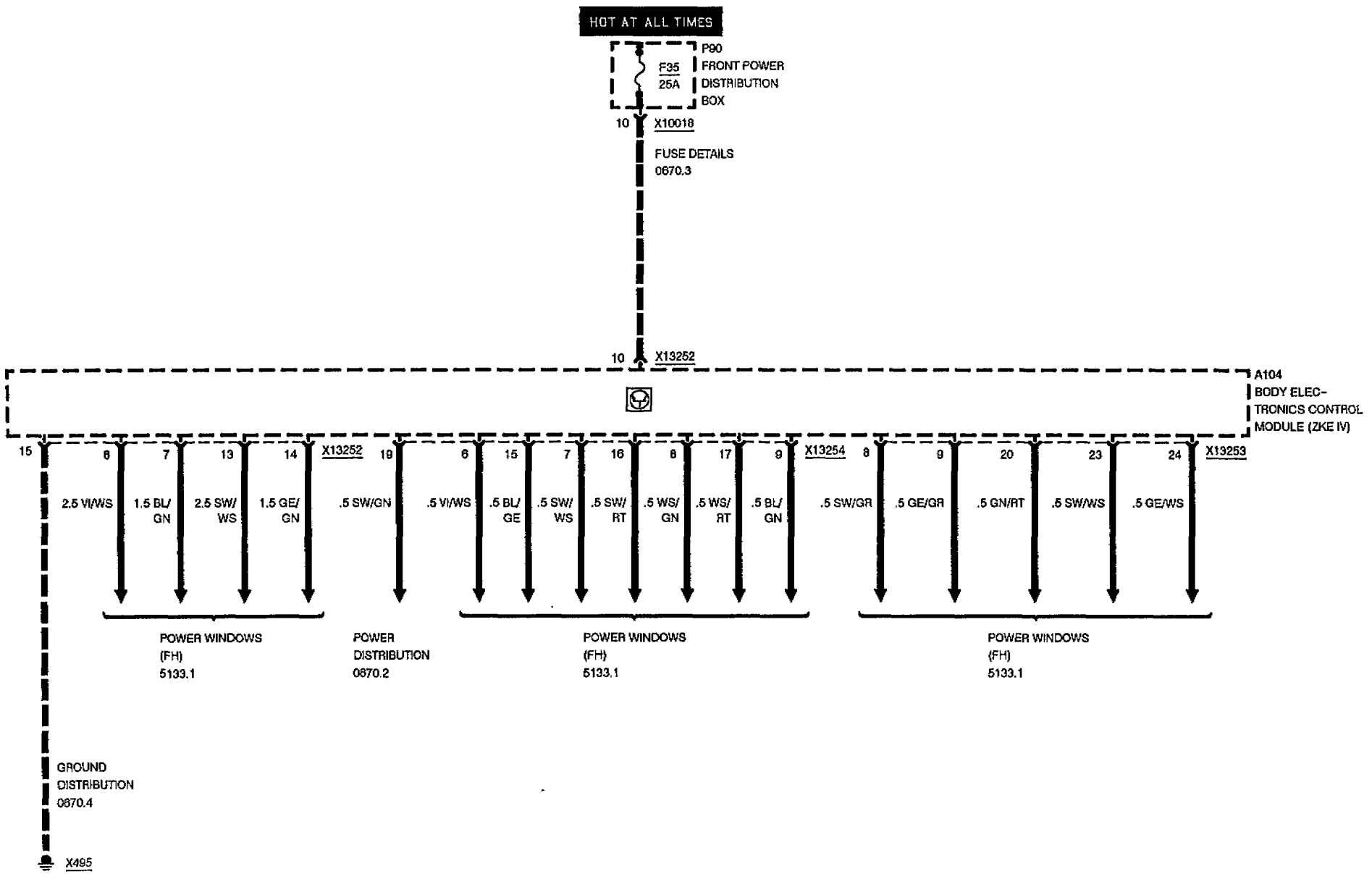
Pin	Type	Description/Function	Connection
12	E	DATA-signal	Central body electronic module
13	E/A	DATA-signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

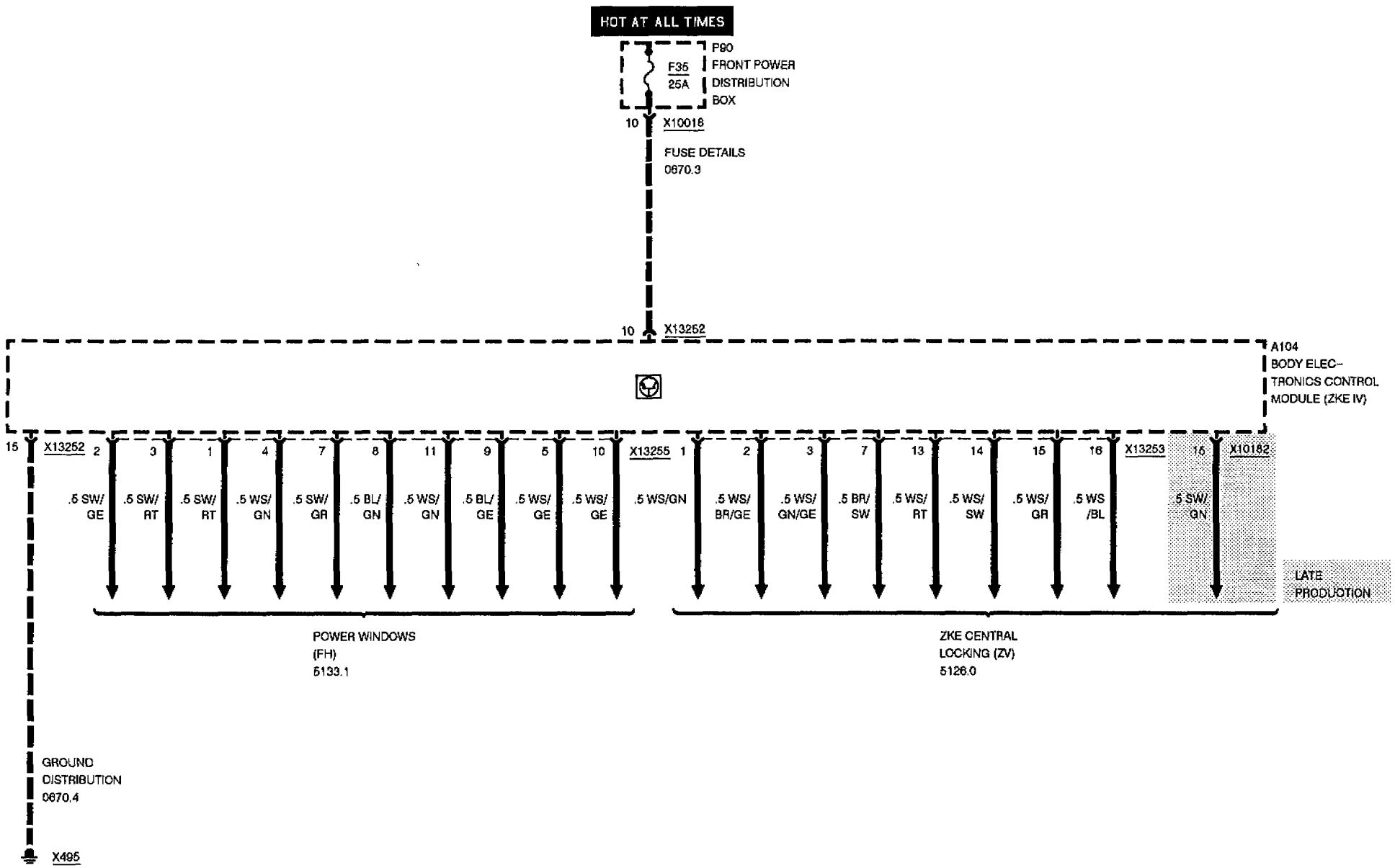
CENTRAL BODY ELECTRONICS (ZKE IV)

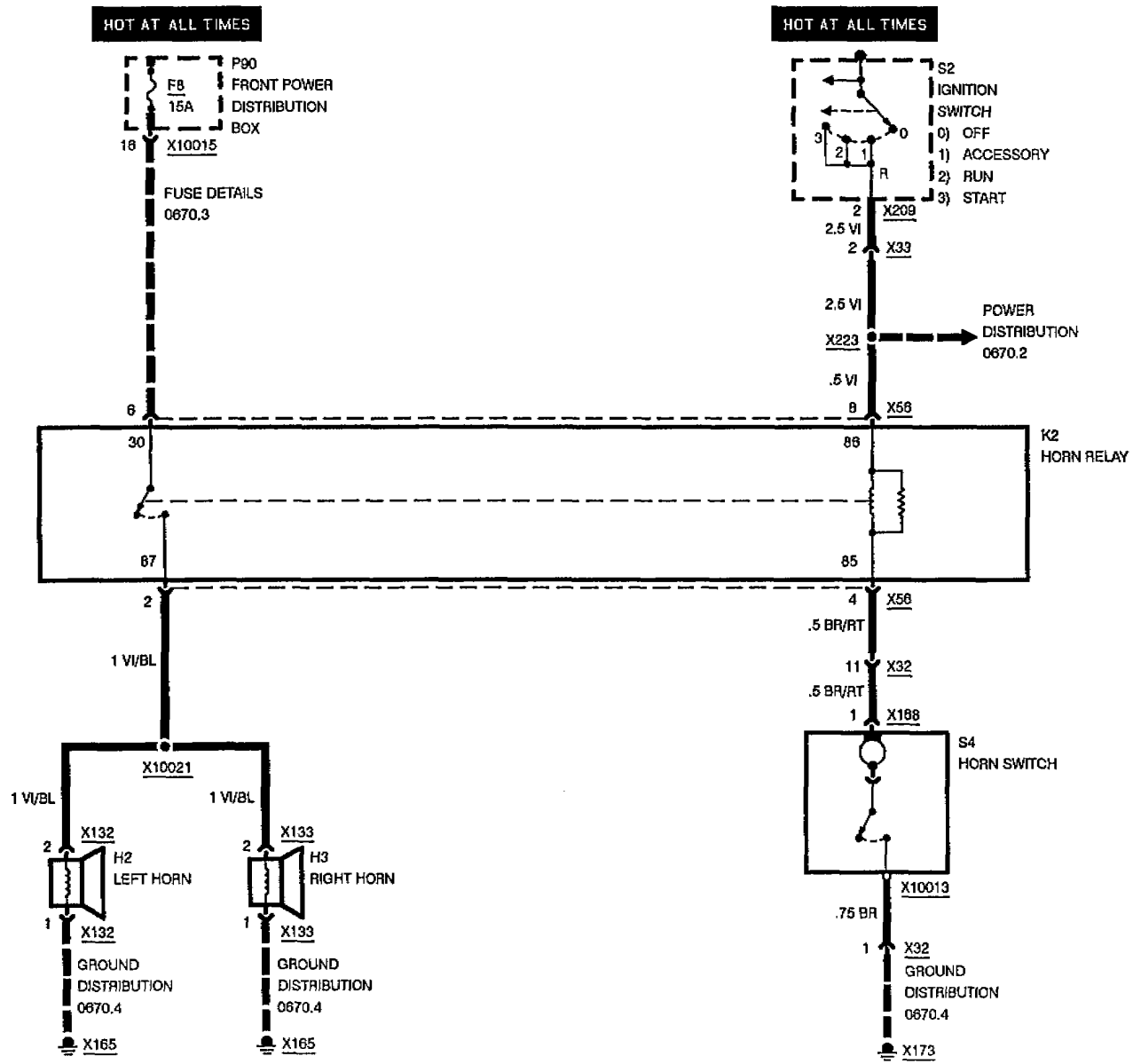


CENTRAL BODY ELECTRONICS (ZKE IV)



CENTRAL BODY ELECTRONICS (ZKE IV)

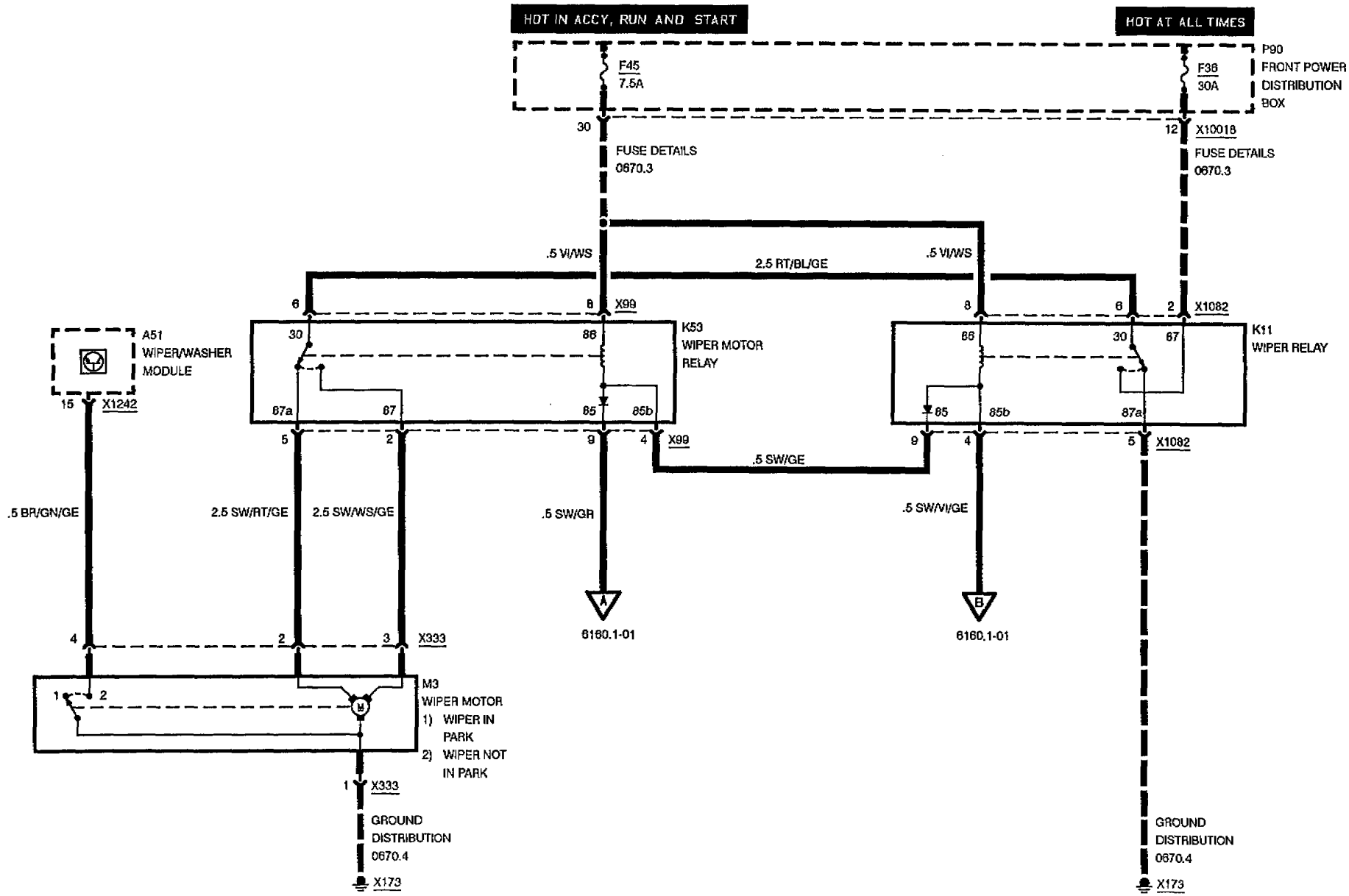



HOT AT ALL TIMES
HOT AT ALL TIMES
P90
F8
15A
FRONT POWER
DISTRIBUTION
BOX
18
X10015
FUSE DETAILS
0670.3
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
2
X209
2.5 VI
2
X33
2.5 VI
X223
POWER
DISTRIBUTION
0670.2
.5 VI
6
8
X56
K2
HORN RELAY
30
86
87
85
2
4
X56
.5 BR/RT
1 VI/BL
11
X32
.5 BR/RT
1
X168
S4
HORN SWITCH
X10021
1 VI/BL
1 VI/BL
2
X132
H2
LEFT HORN
1
X132
GROUND
DISTRIBUTION
0670.4
X165
2
X133
H3
RIGHT HORN
1
X133
GROUND
DISTRIBUTION
0670.4
X165
X10013
.75 BR
1
X32
GROUND
DISTRIBUTION
0670.4
X173

WIPER/WASHER MODULE (WWM)

CDN

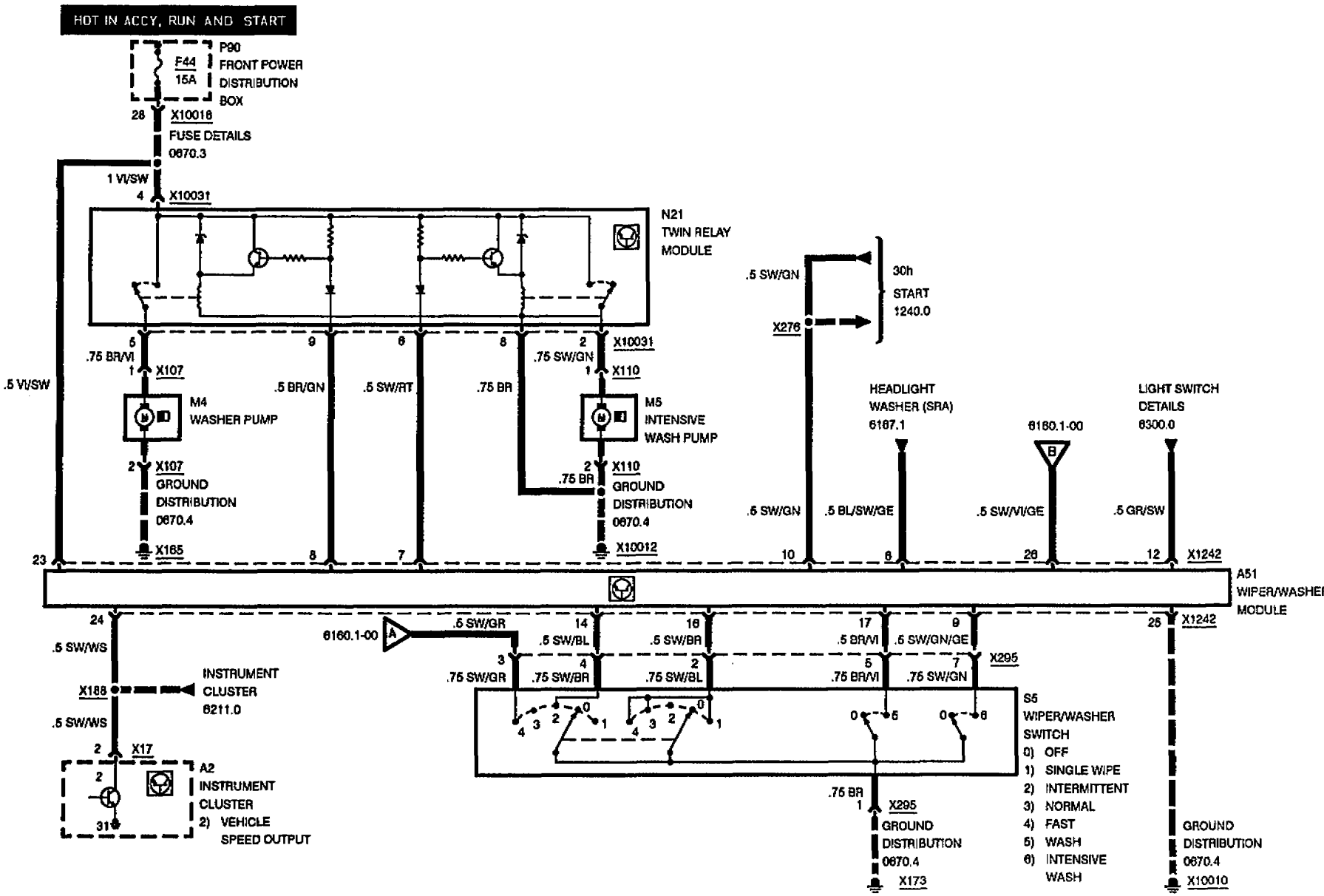
WASHER, INTENSIVE WASHER, HEADLIGHT WASHER - HIGH



WIPER/WASHER MODULE (WWM)

CDN

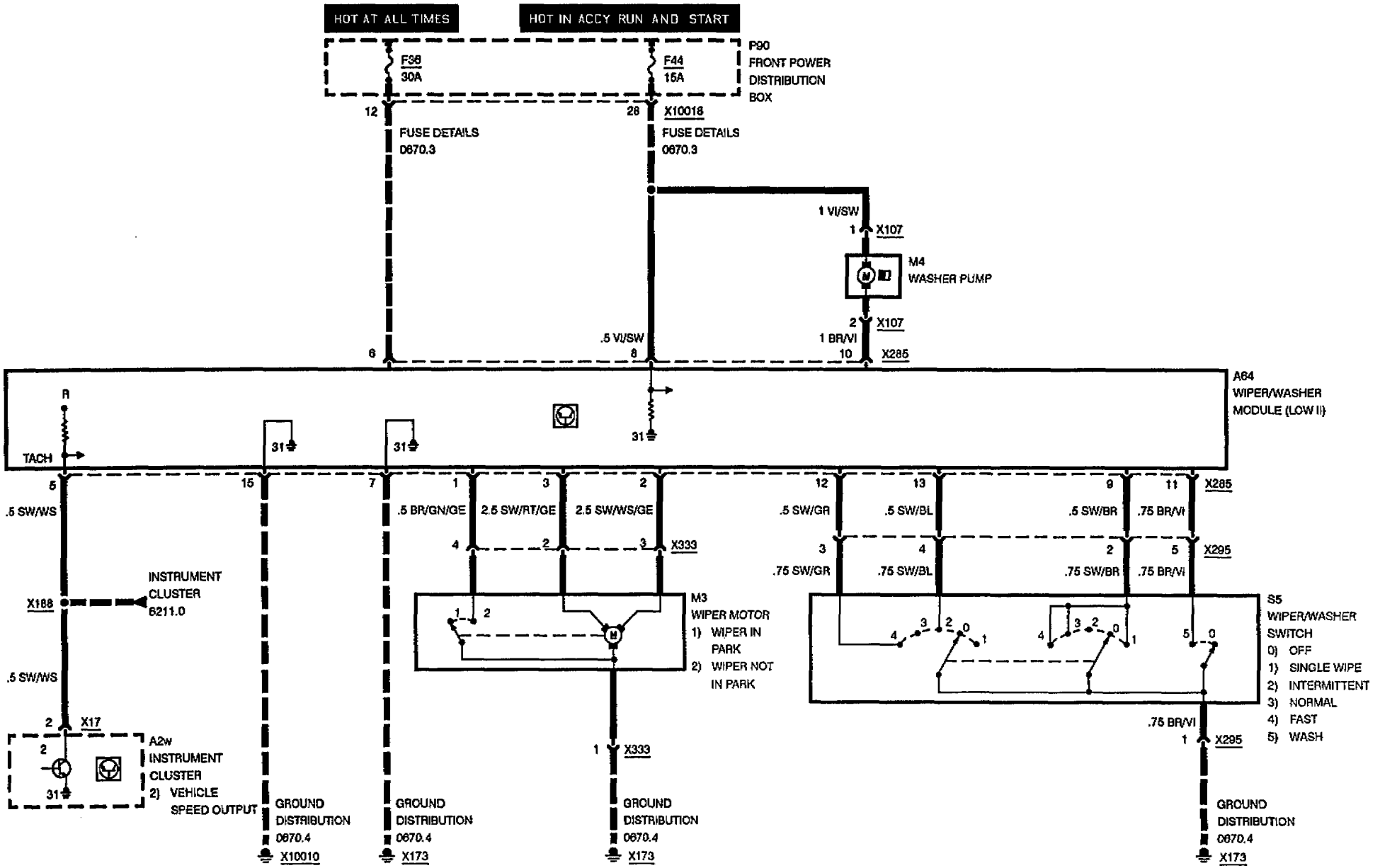
WASHER, INTENSIVE WASHER, HEADLIGHT WASHER - HIGH



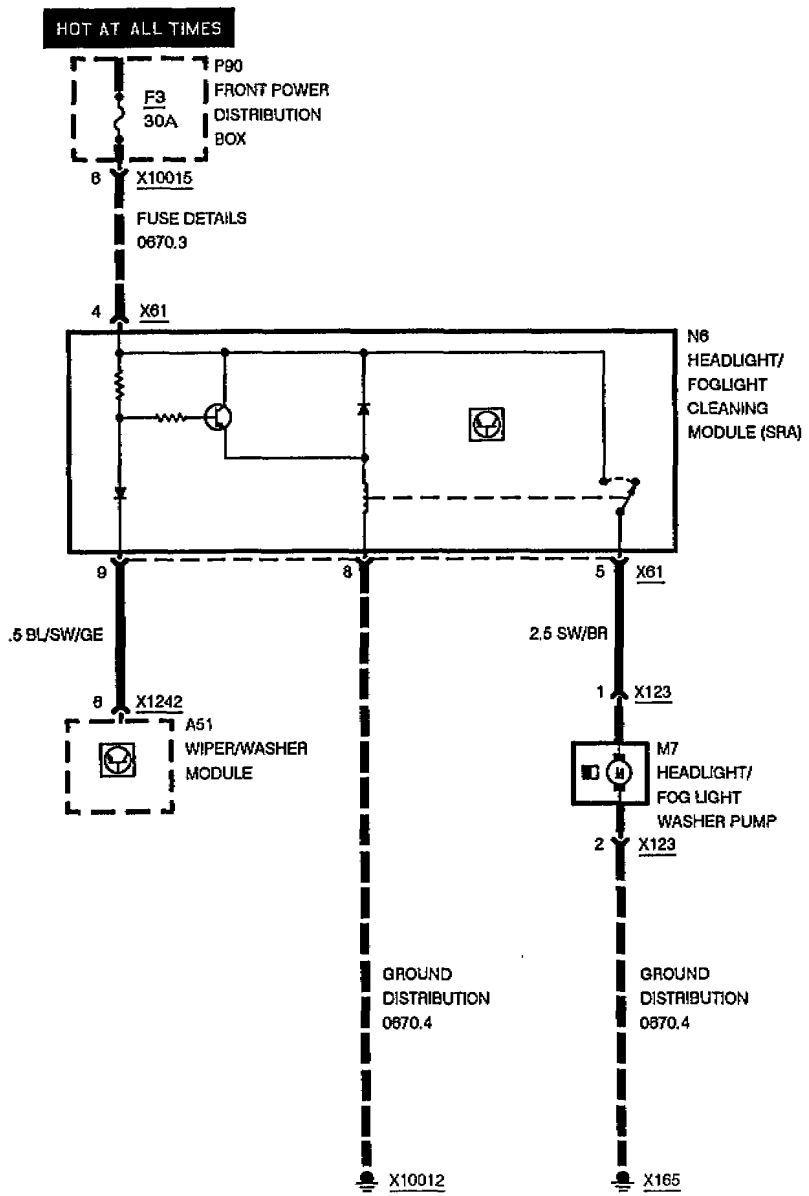
WIPER/WASHER MODULE (WWM)

USA

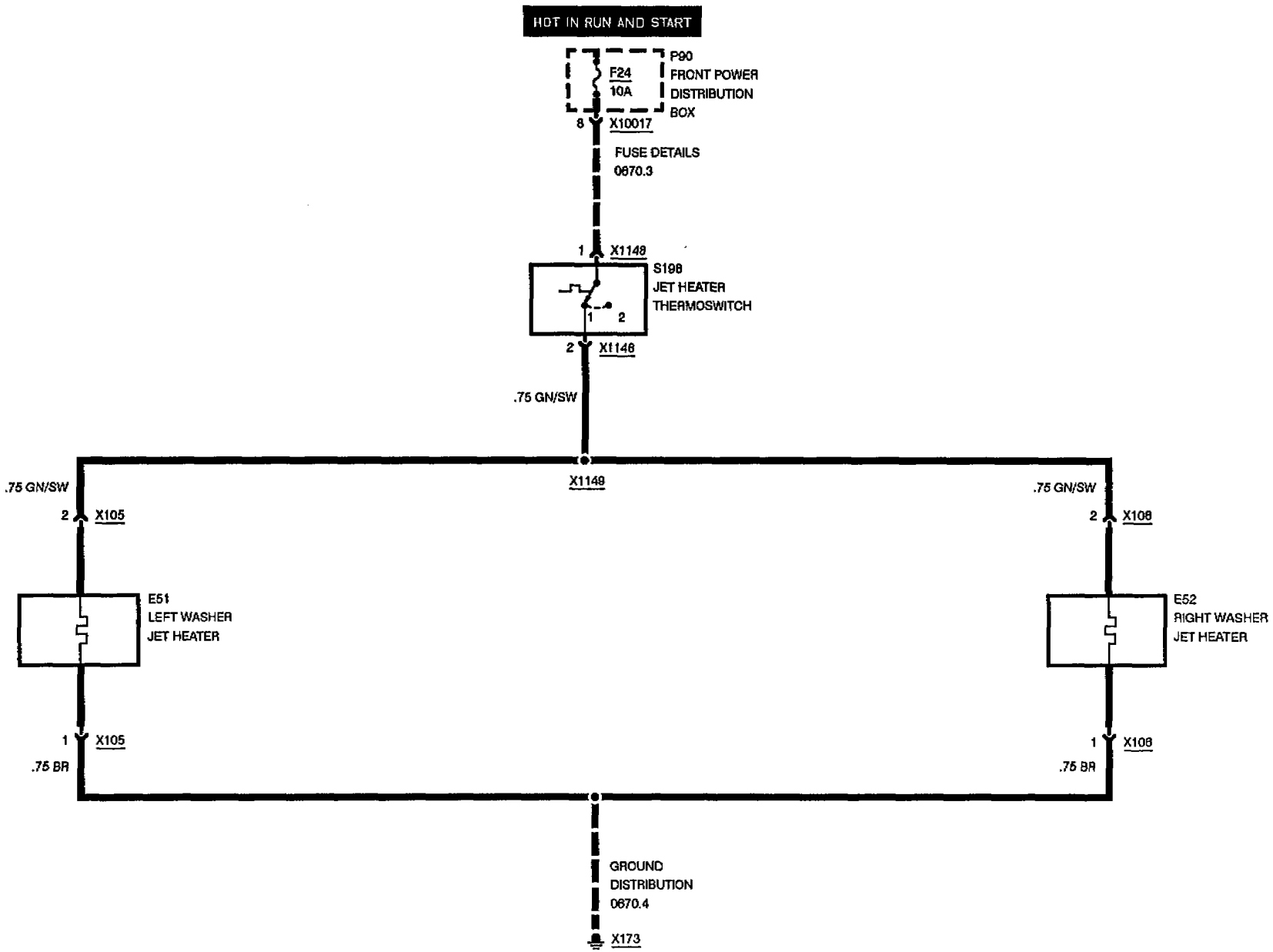
WASHER - LOW



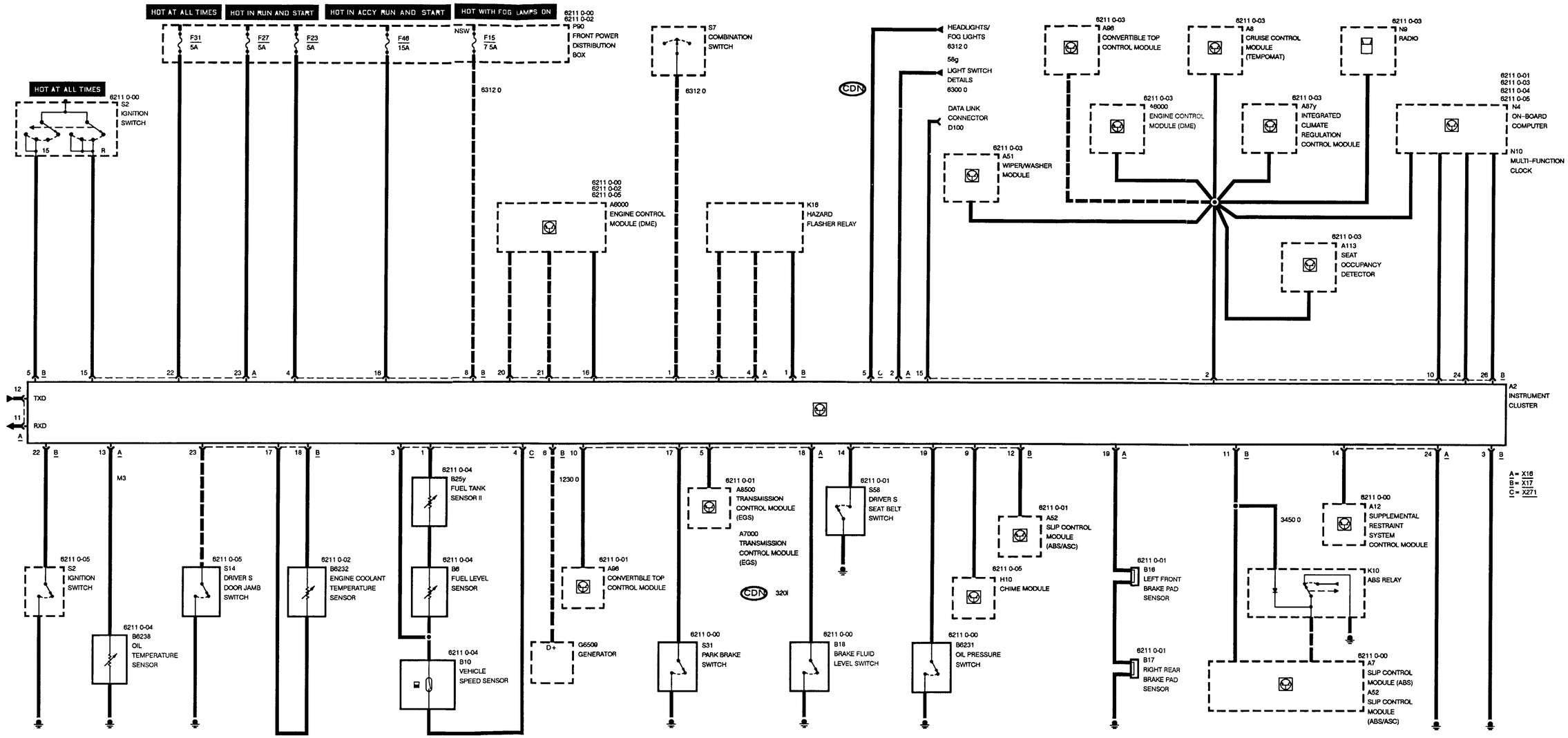
HEADLIGHT WASHER (SRA)

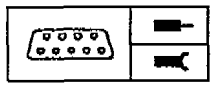


WINDSHIELD WASHER JET HEATERS



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12/94 — 6211 0 — 1994





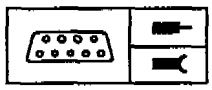
Pin Assignments

A = X16	26 Pins, white
B = X17	26 Pins, blue
C = X271	12 Pins, black

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instrument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10	E	Convertible: Roll over signal	Convertible top control module
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13	E	M3: Oil temperature	Engine oil temperature sensor
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15	E	Voltage supply, terminal R for airbag warning lamp (SRS)	Ignition switch, terminal R
16	E	"Check engine" indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21	E	Fuel consumption signal + KVA	Engine control module (DME)
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27

E = Input, A = Output, M = Ground



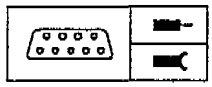
Pin Assignments

Pin	Type	Description/Function	Connection
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground
25		Not used	
26		Not used	

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Voltage supply, fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10	A	Information signal, fuel tank content	On-board computer/Multifunction clock
11	E	Slip control system warning lamp (ABS) control/ASC+T warning lamp control	Slip control module (ABS)/ASC+T control module
12	E	ASC+T signal	ASC+T control module
13		Not used	
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distribution box, fuse 46
17	A	Coolant temperature sensor	Coolant temperature sensor
18	E	Coolant temperature sensor	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver's door open	Driver's door jamb switch
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

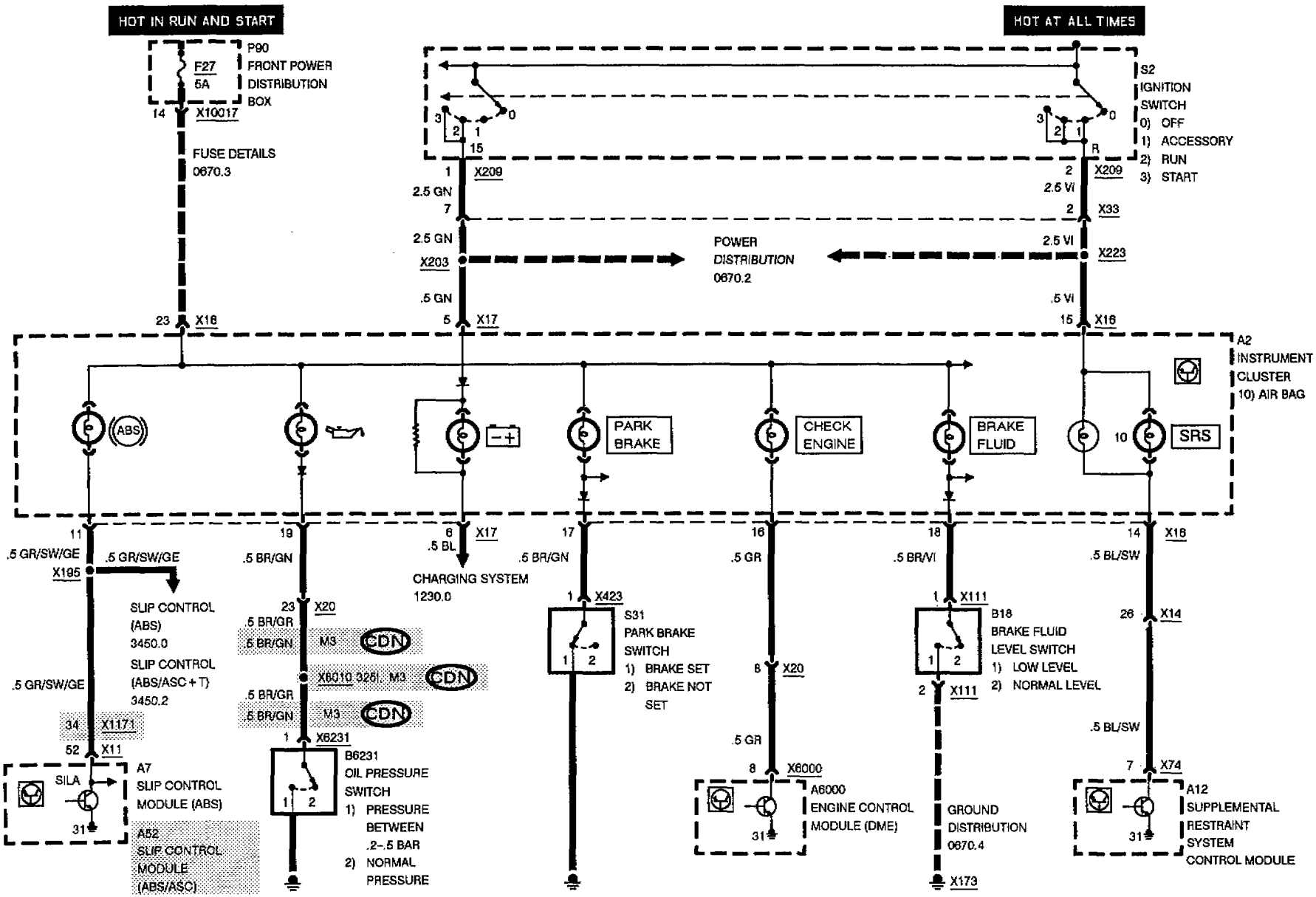
X271

Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal tw	Vehicle speed sensor
5	E	Rear fog lights indicator control	Rear fog light switch
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

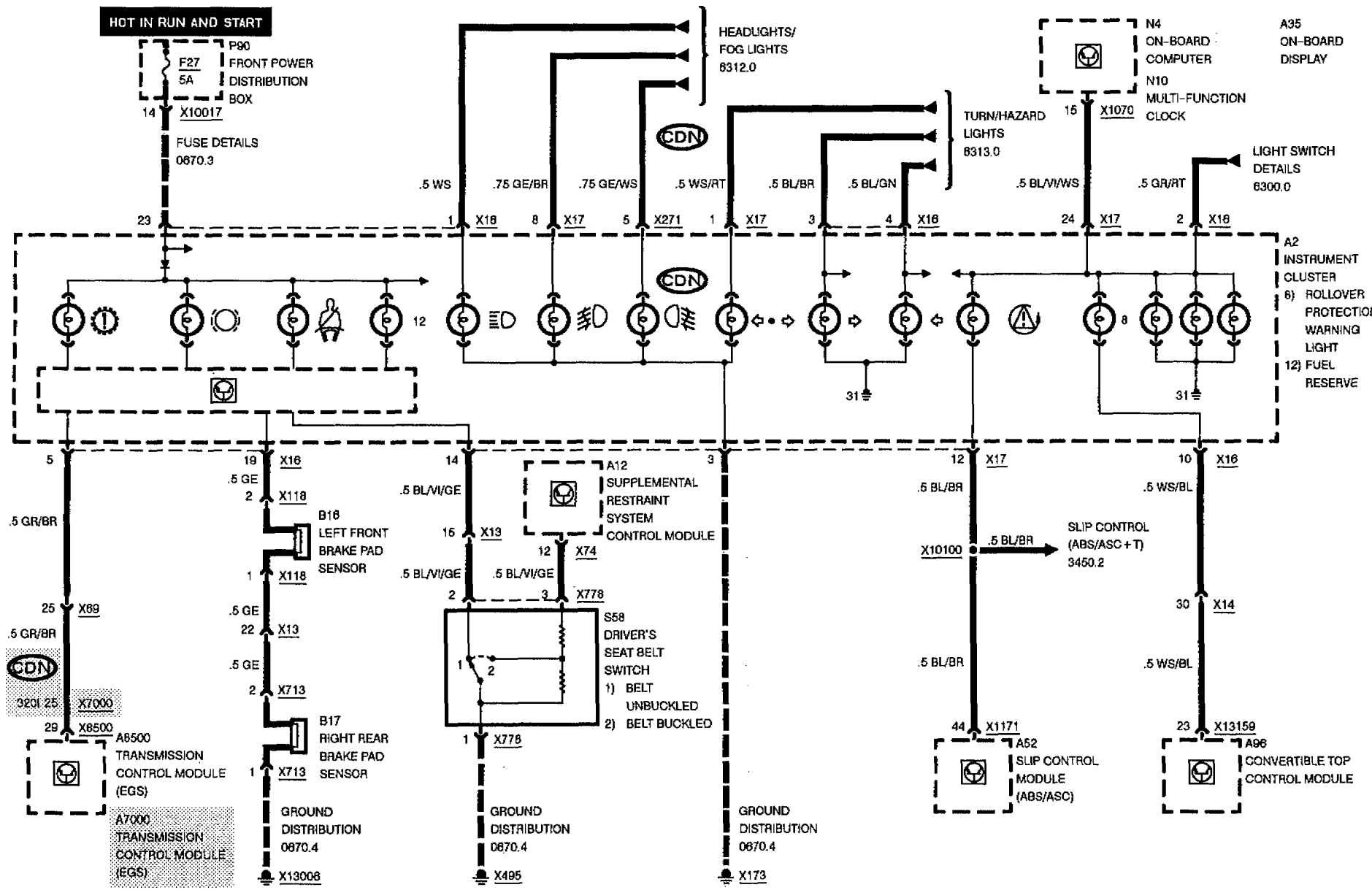
INSTRUMENT CLUSTER

INDICATORS



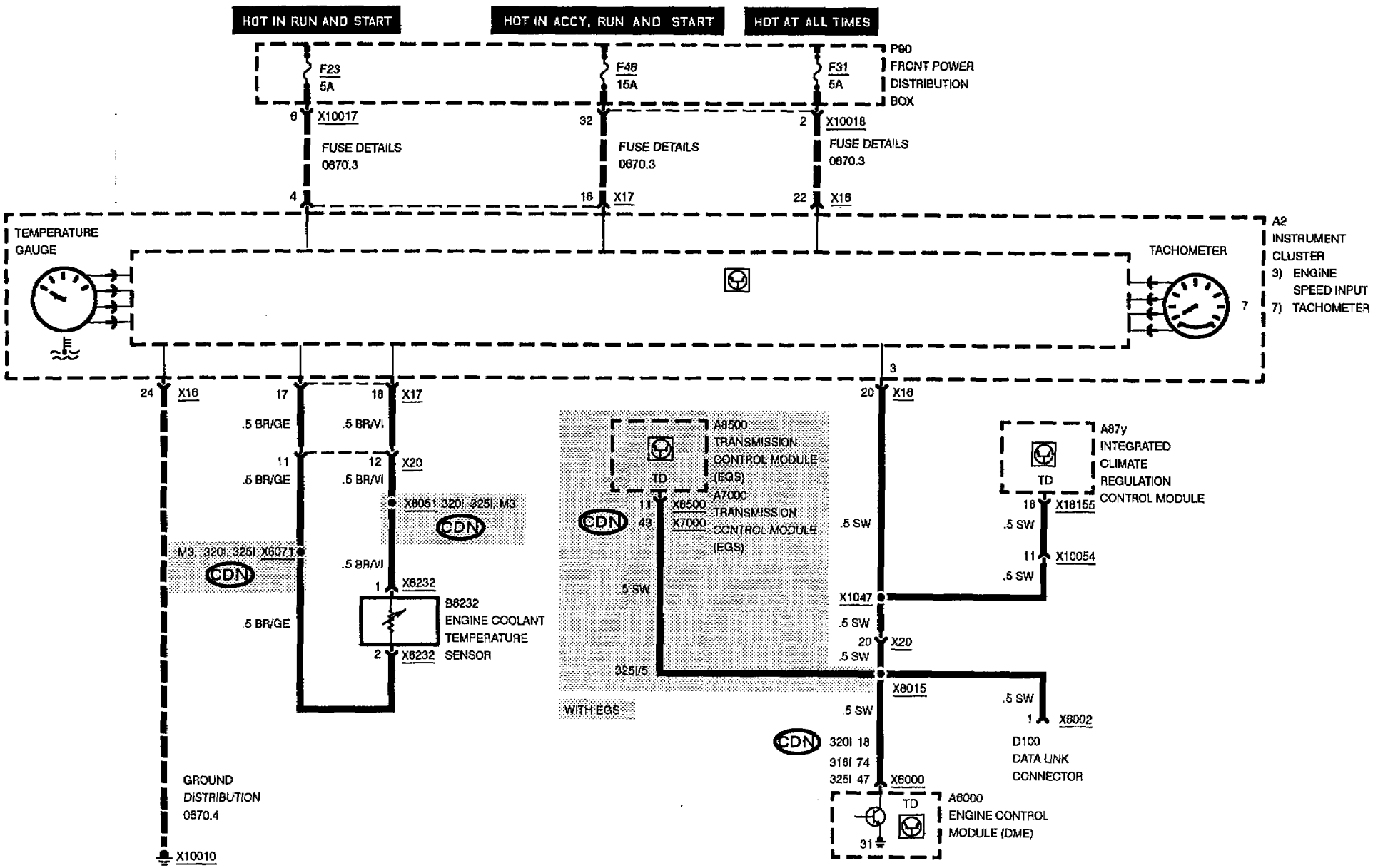
INSTRUMENT CLUSTER

INDICATORS



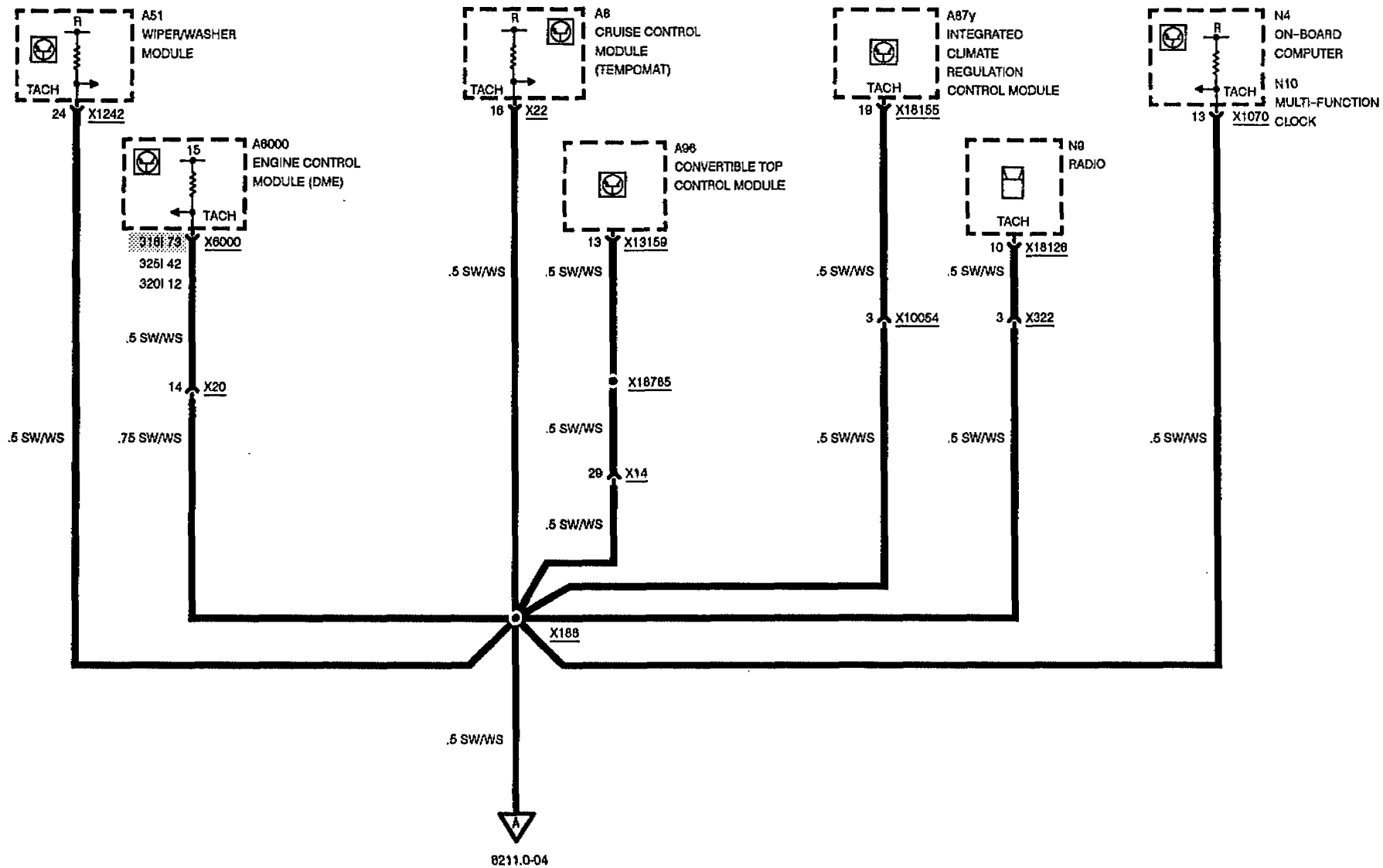
INSTRUMENT CLUSTER

INDICATORS



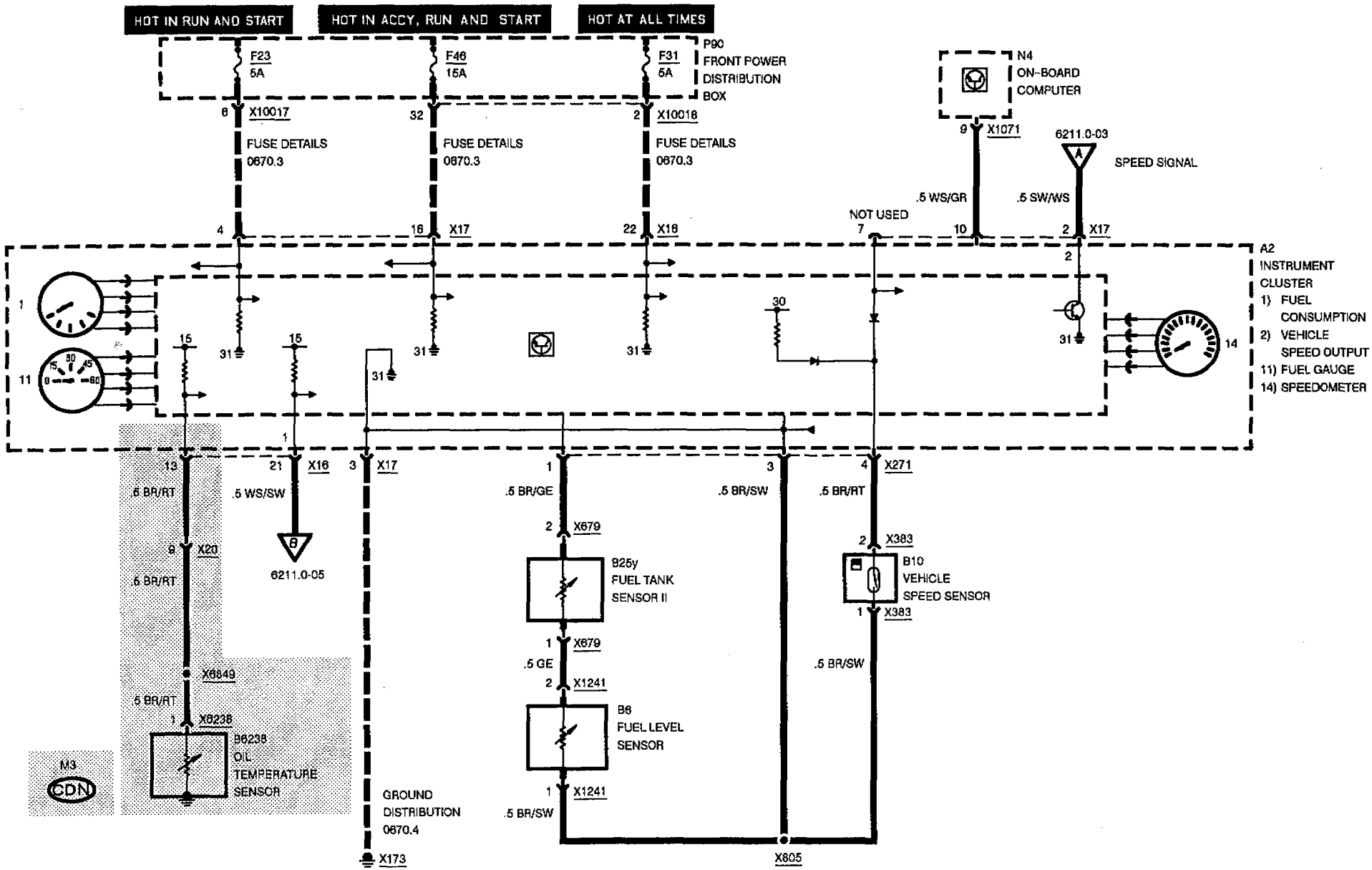
INSTRUMENT CLUSTER

SIGNAL-OUTPUT SPEEDOMETER



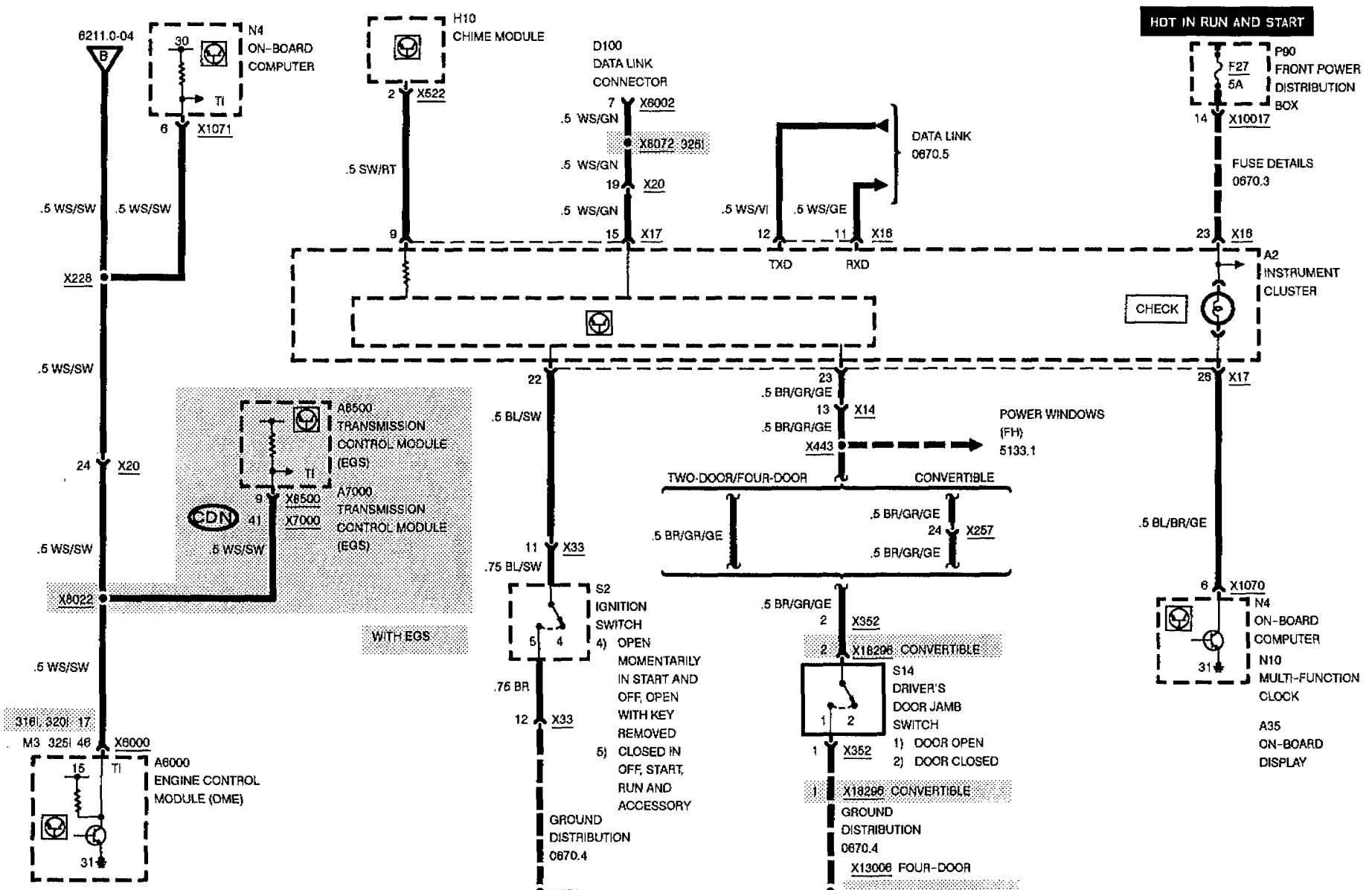
INSTRUMENT CLUSTER

INDICATORS

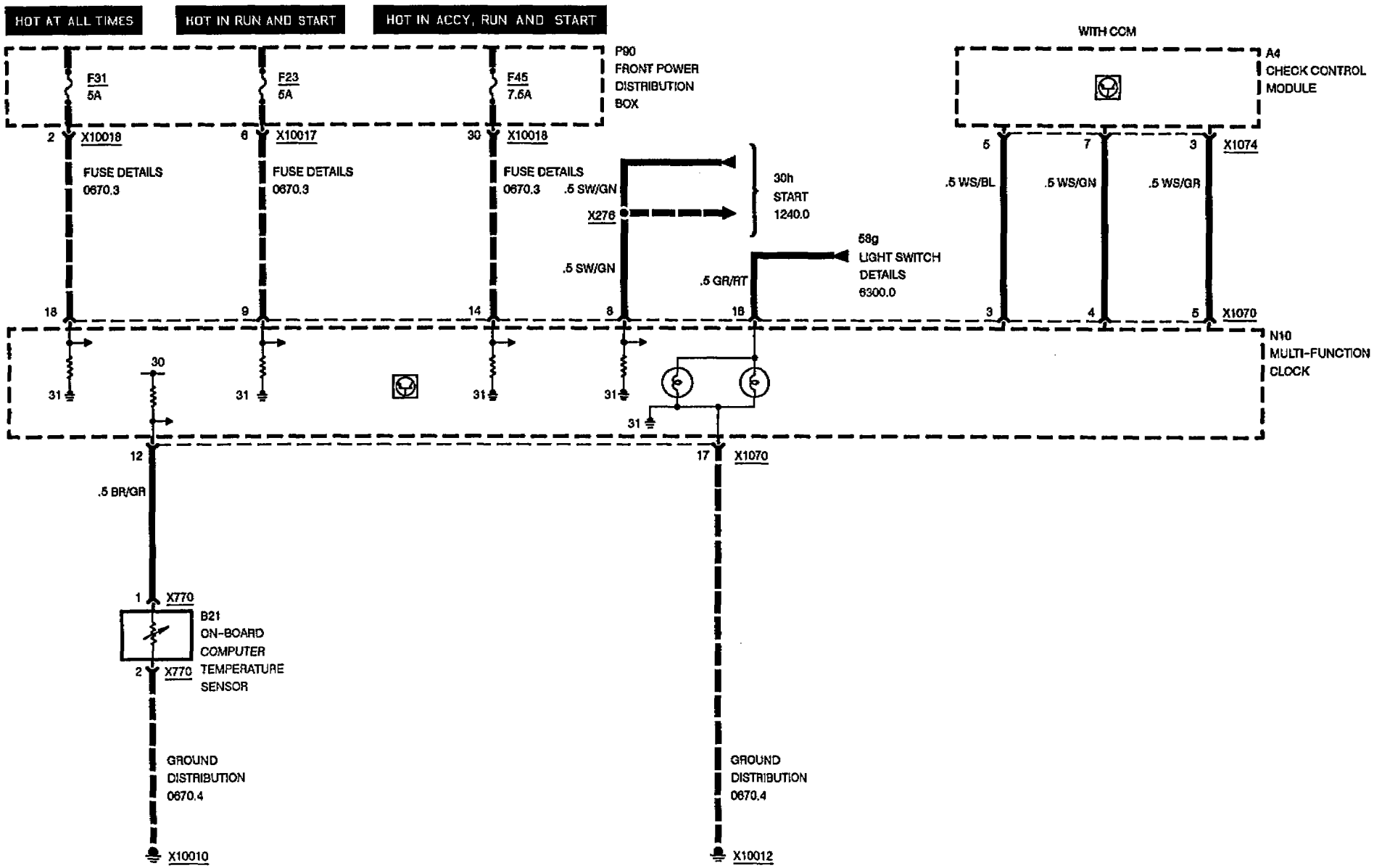


BMW 3 INSTRUMENT CLUSTER

INDICATORS

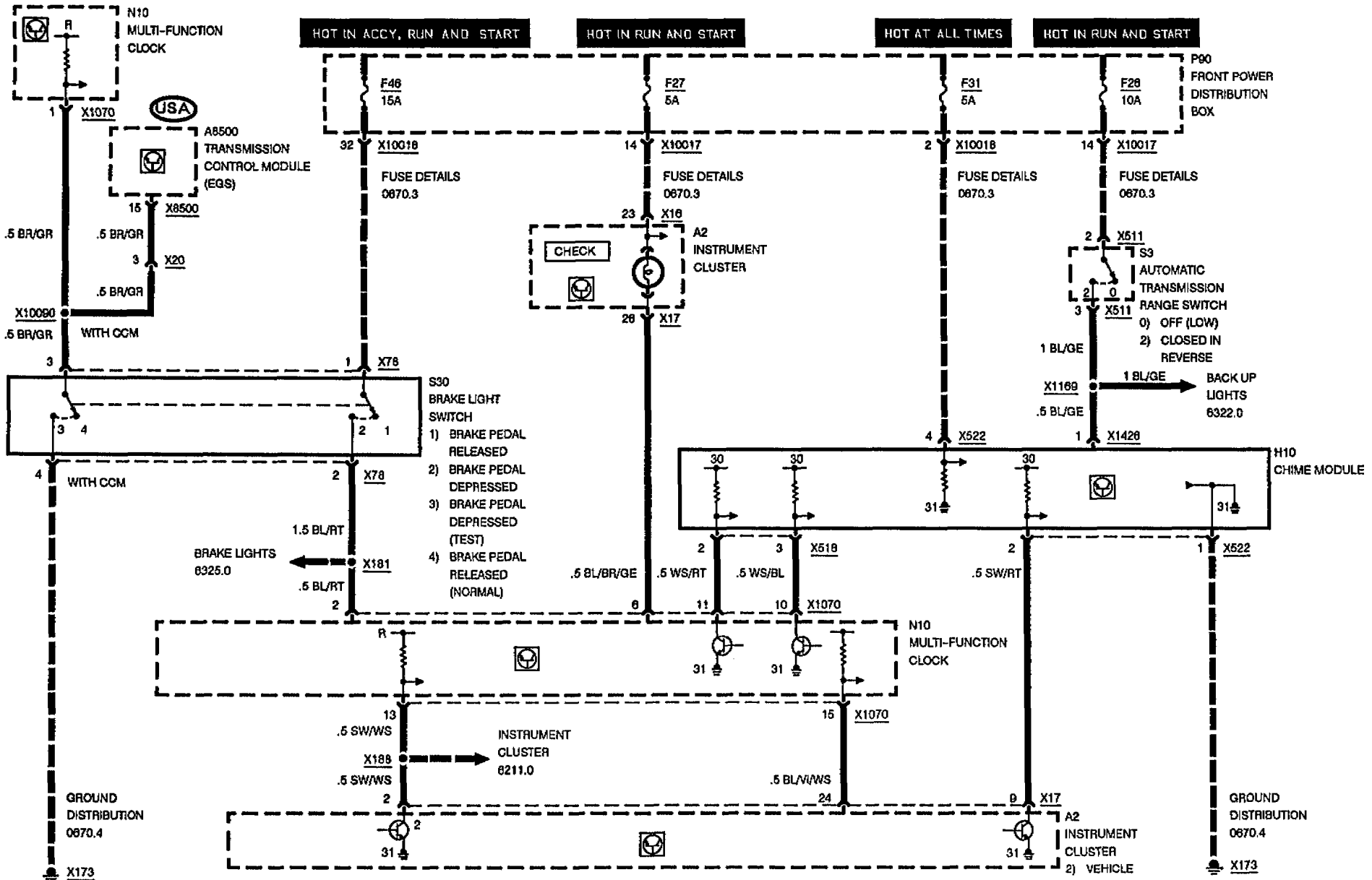


MULTI-FUNCTION CLOCK

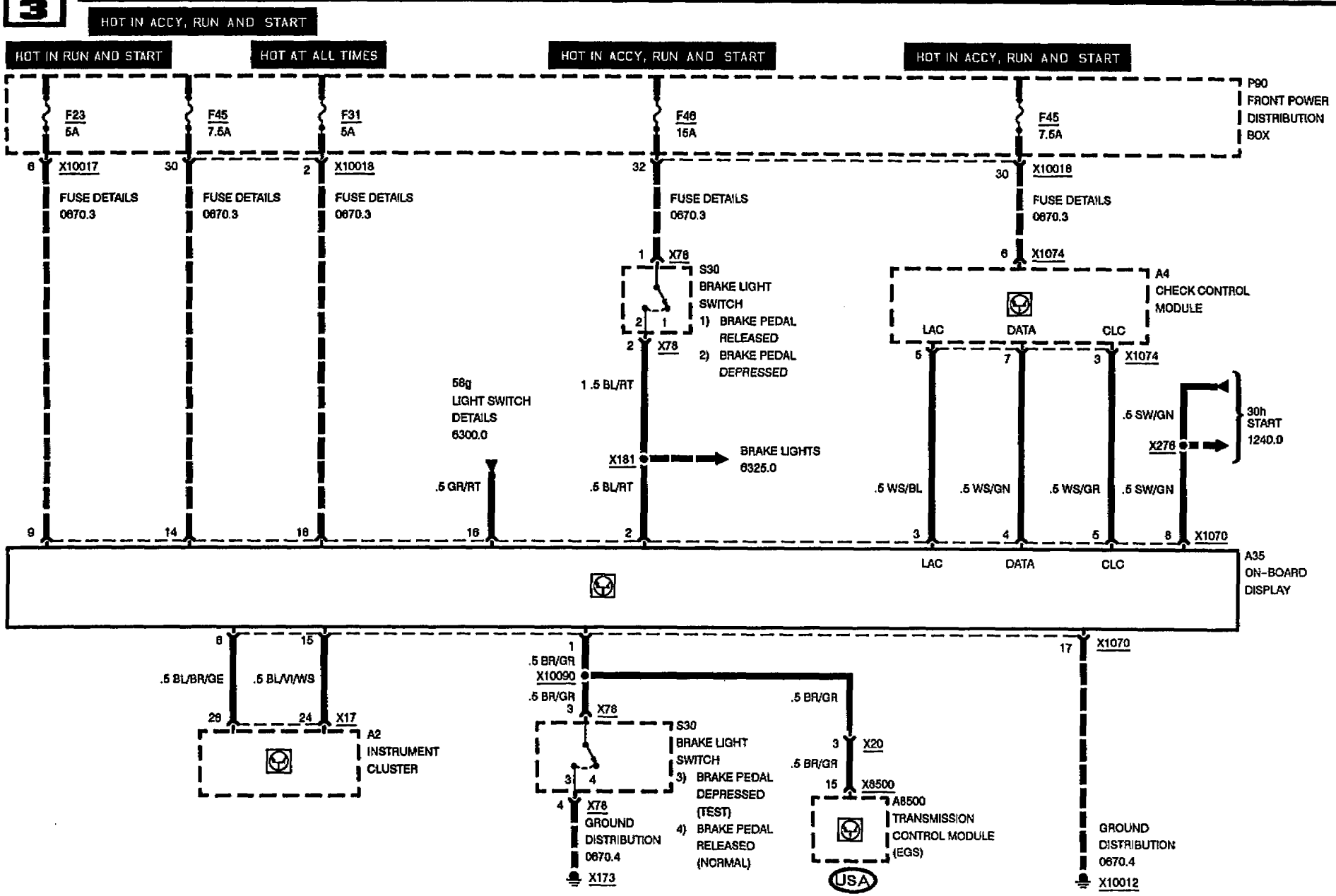


MULTI-FUNCTION CLOCK

CHIME, BRAKE LIGHT SWITCH

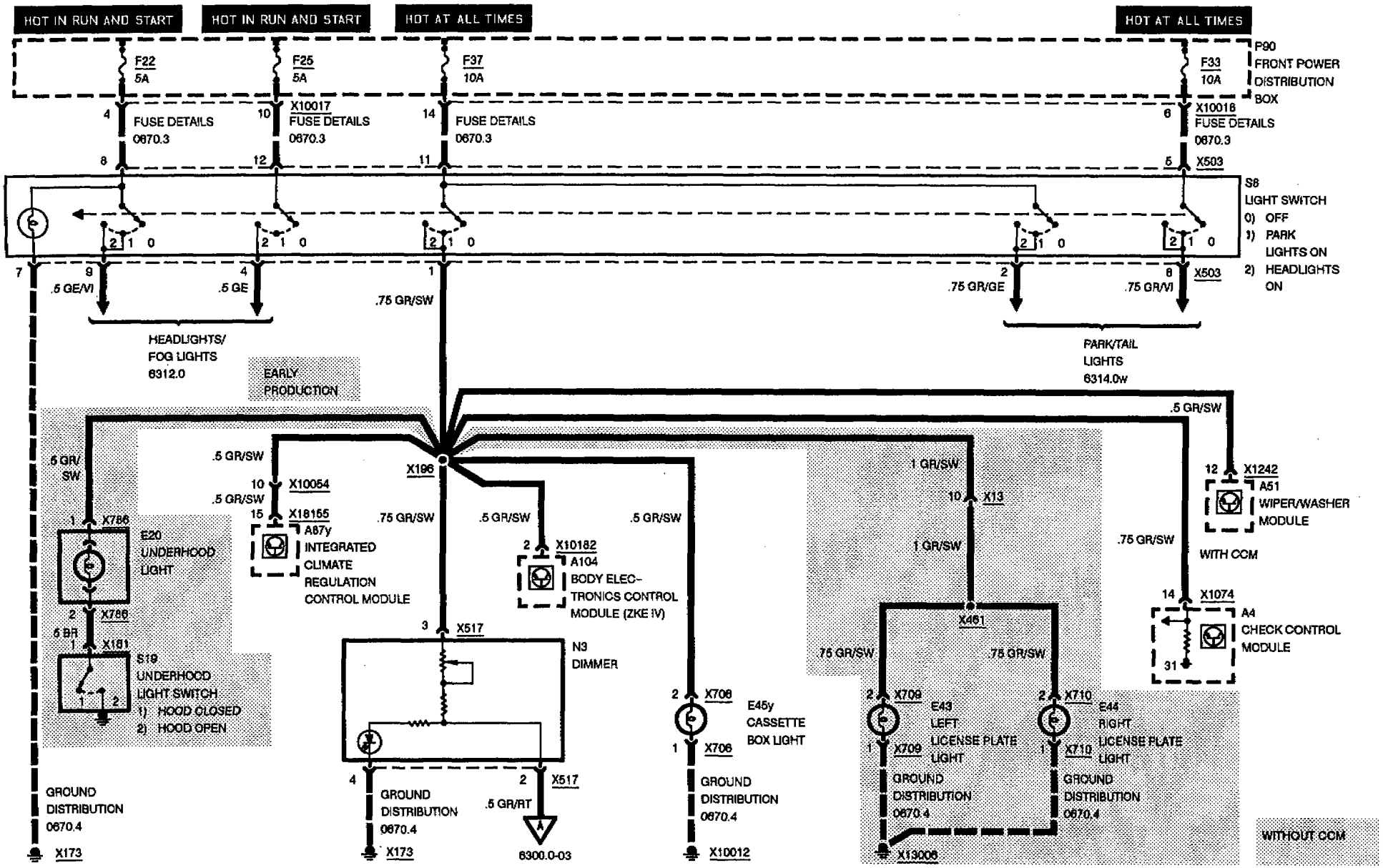


ON-BOARD DISPLAY

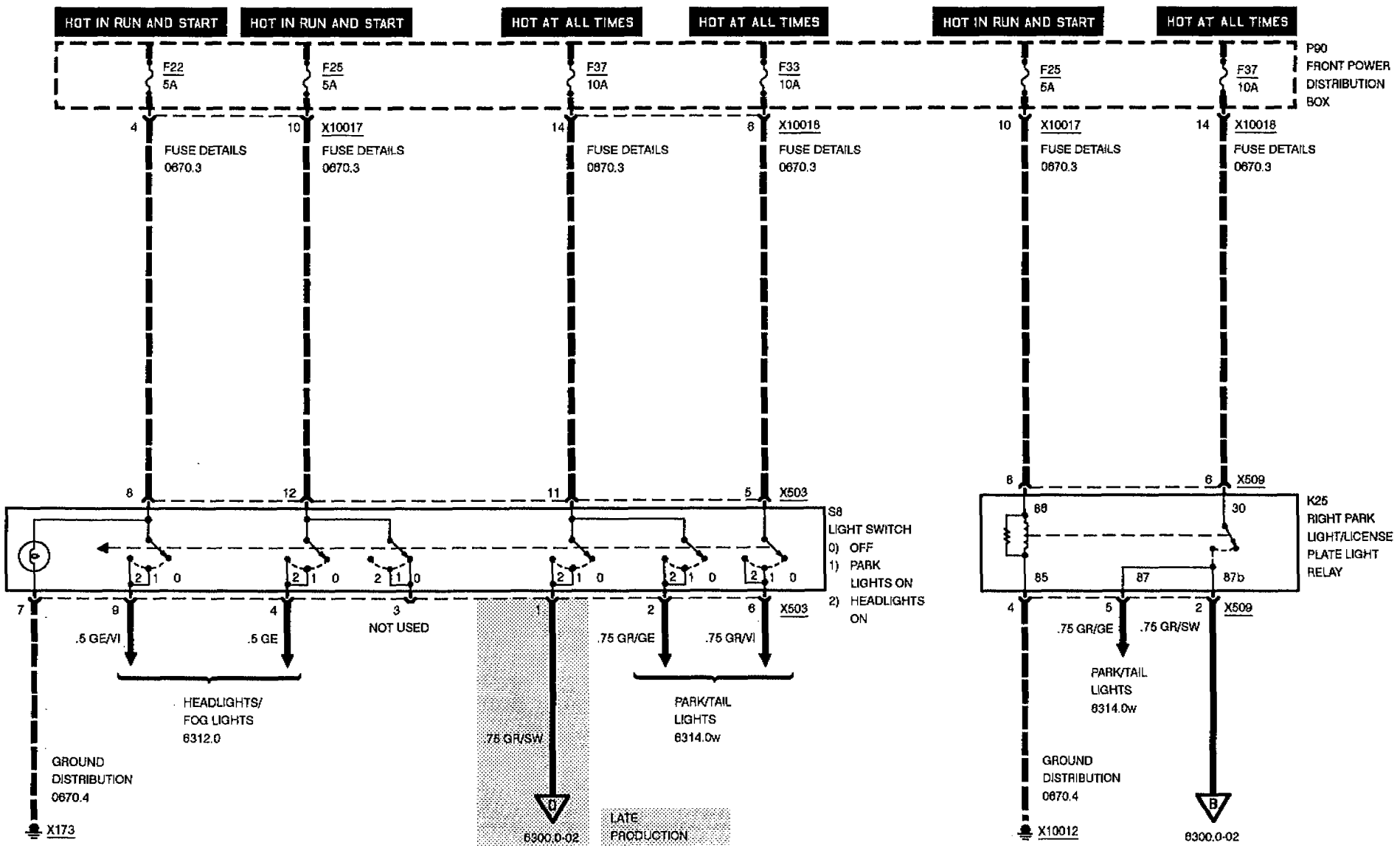


LIGHT SWITCH DETAILS

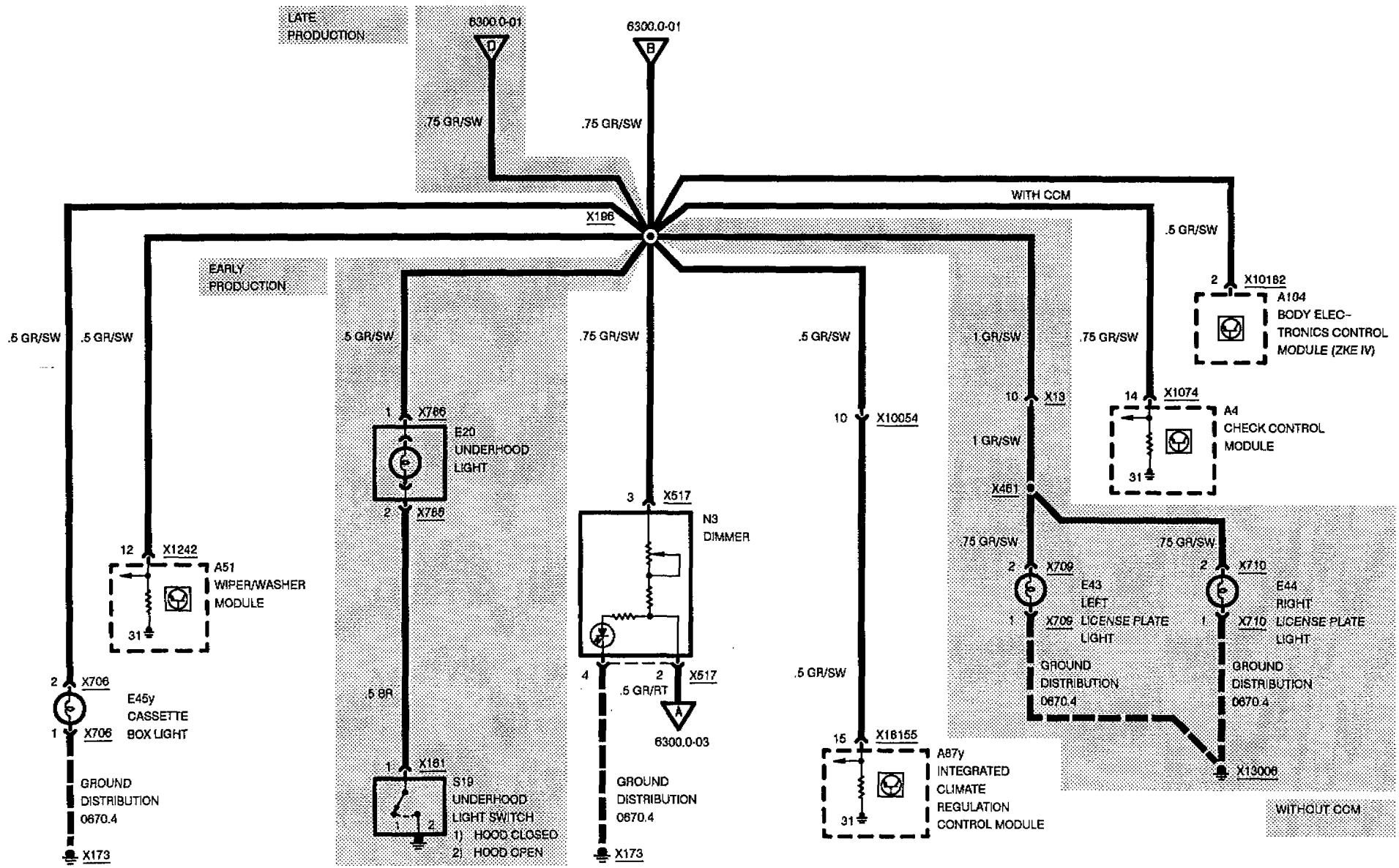
USA



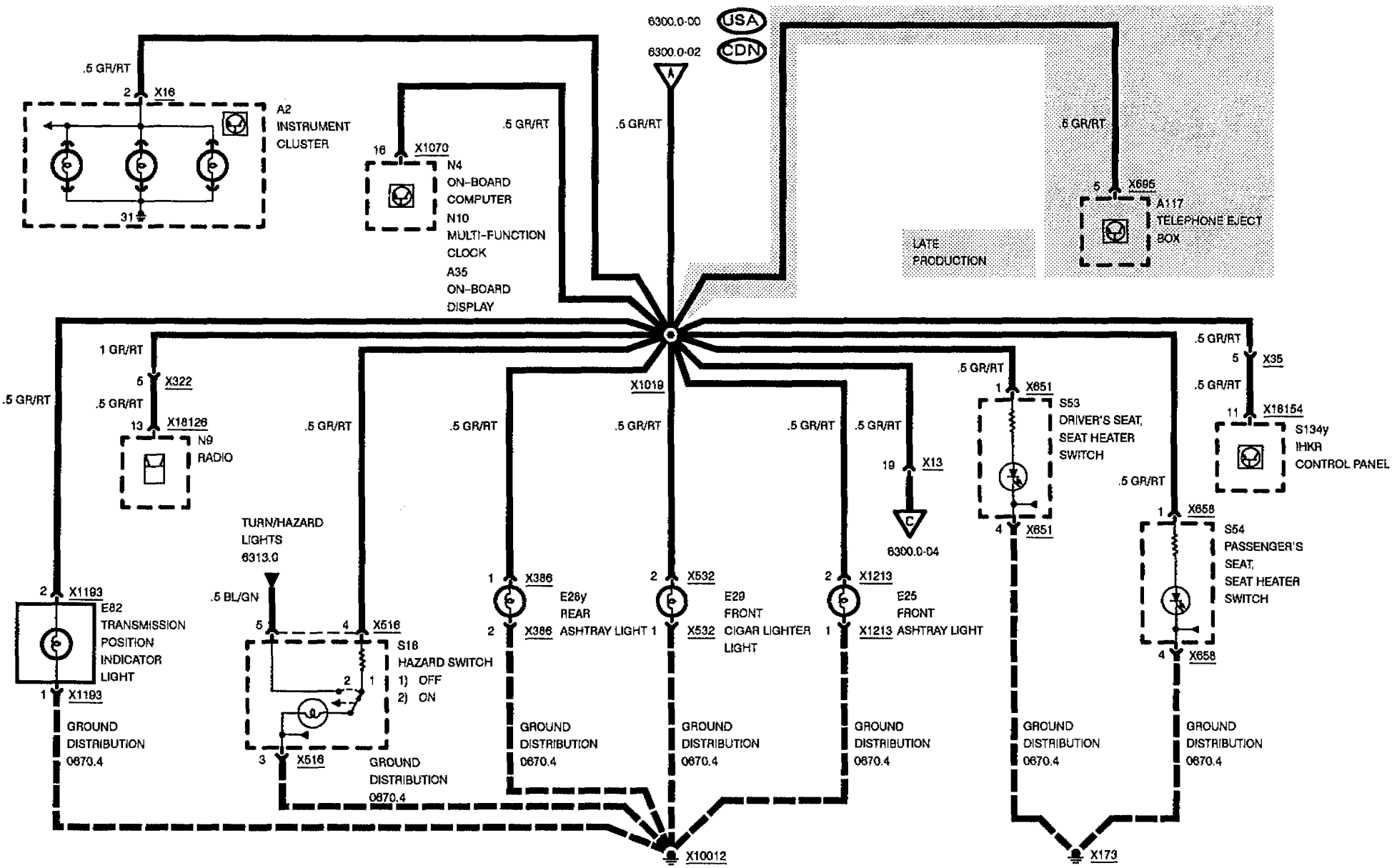
LIGHT SWITCH DETAILS



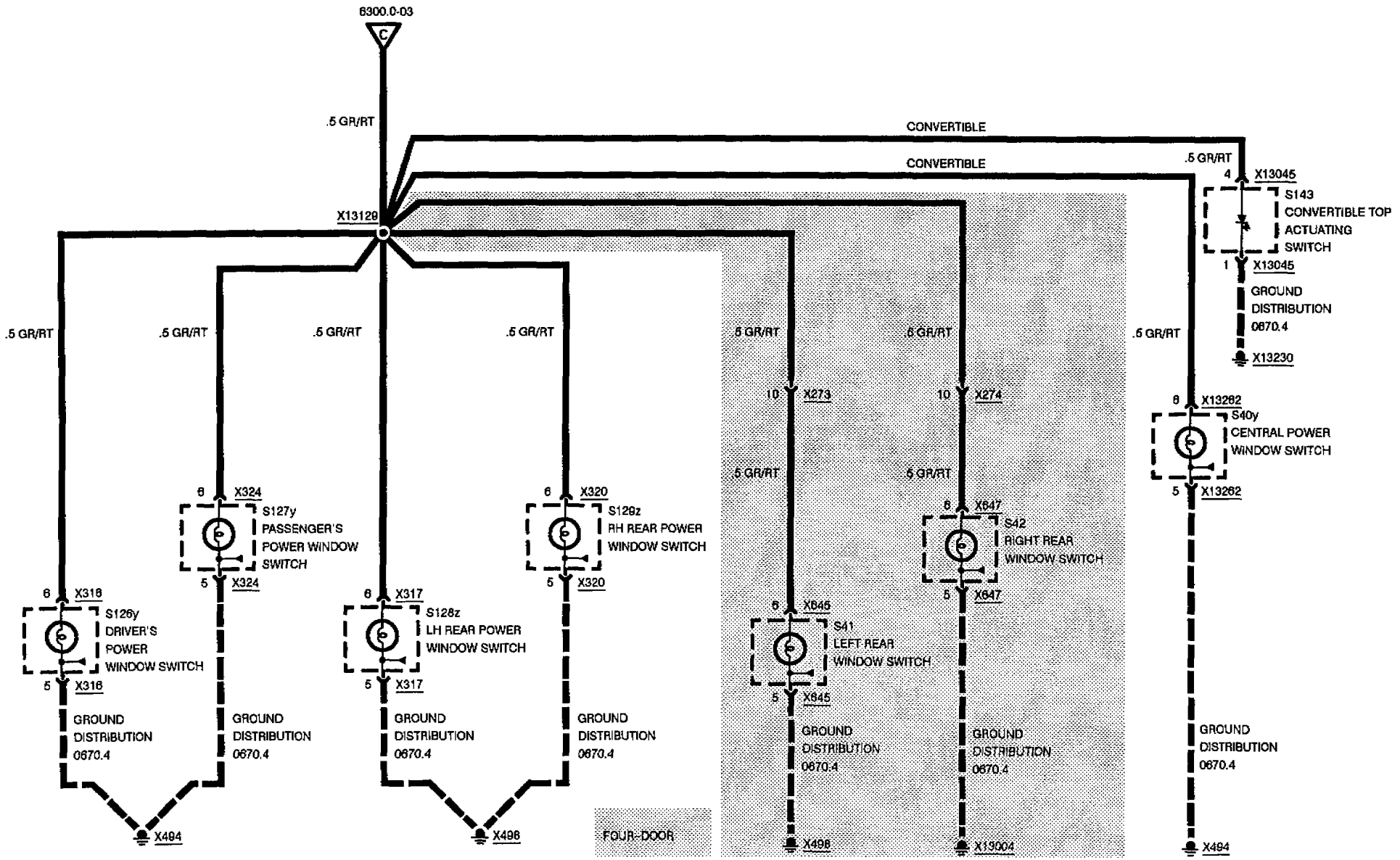
LIGHT SWITCH DETAILS



LIGHT SWITCH DETAILS

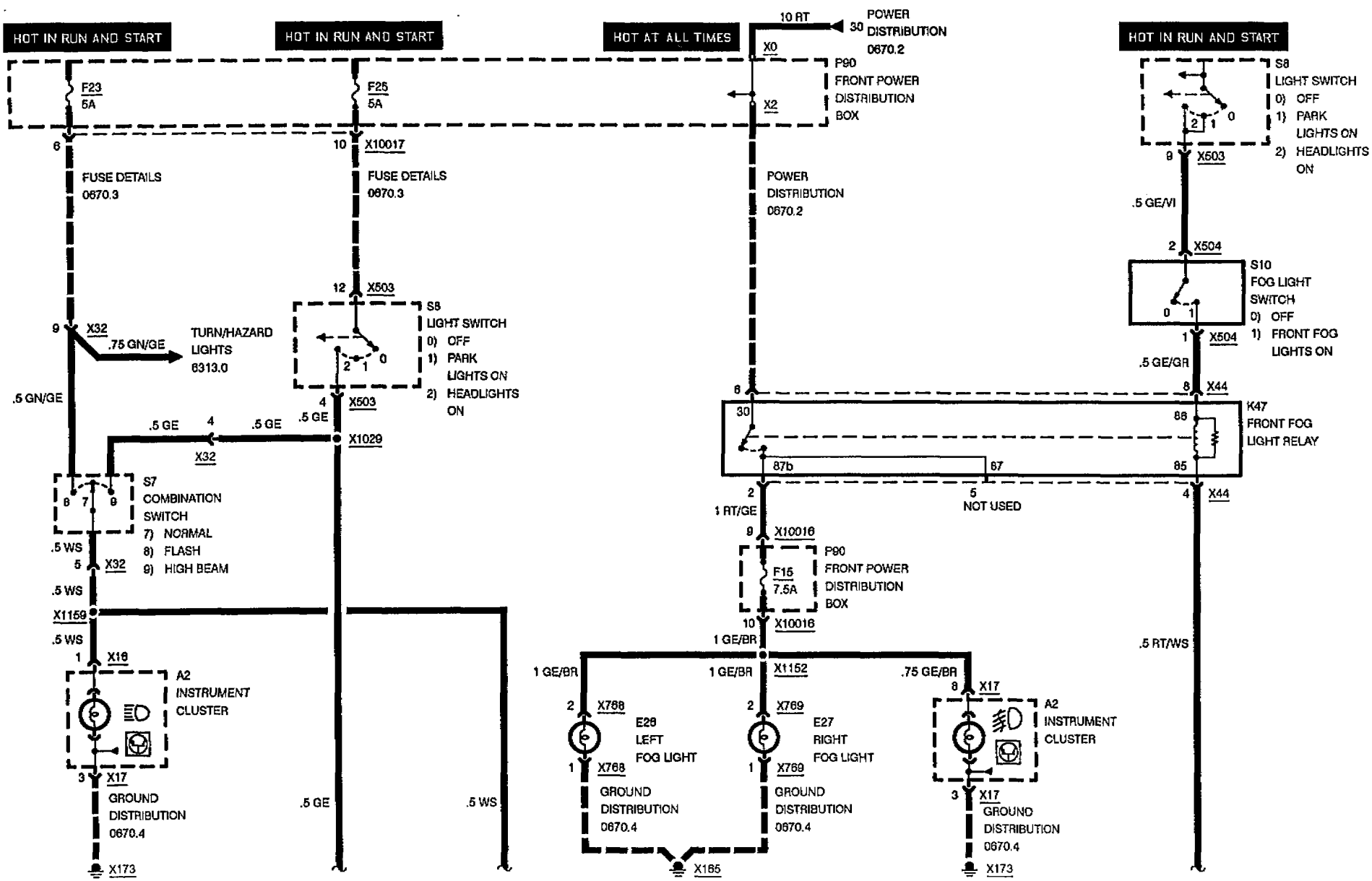


LIGHT SWITCH DETAILS

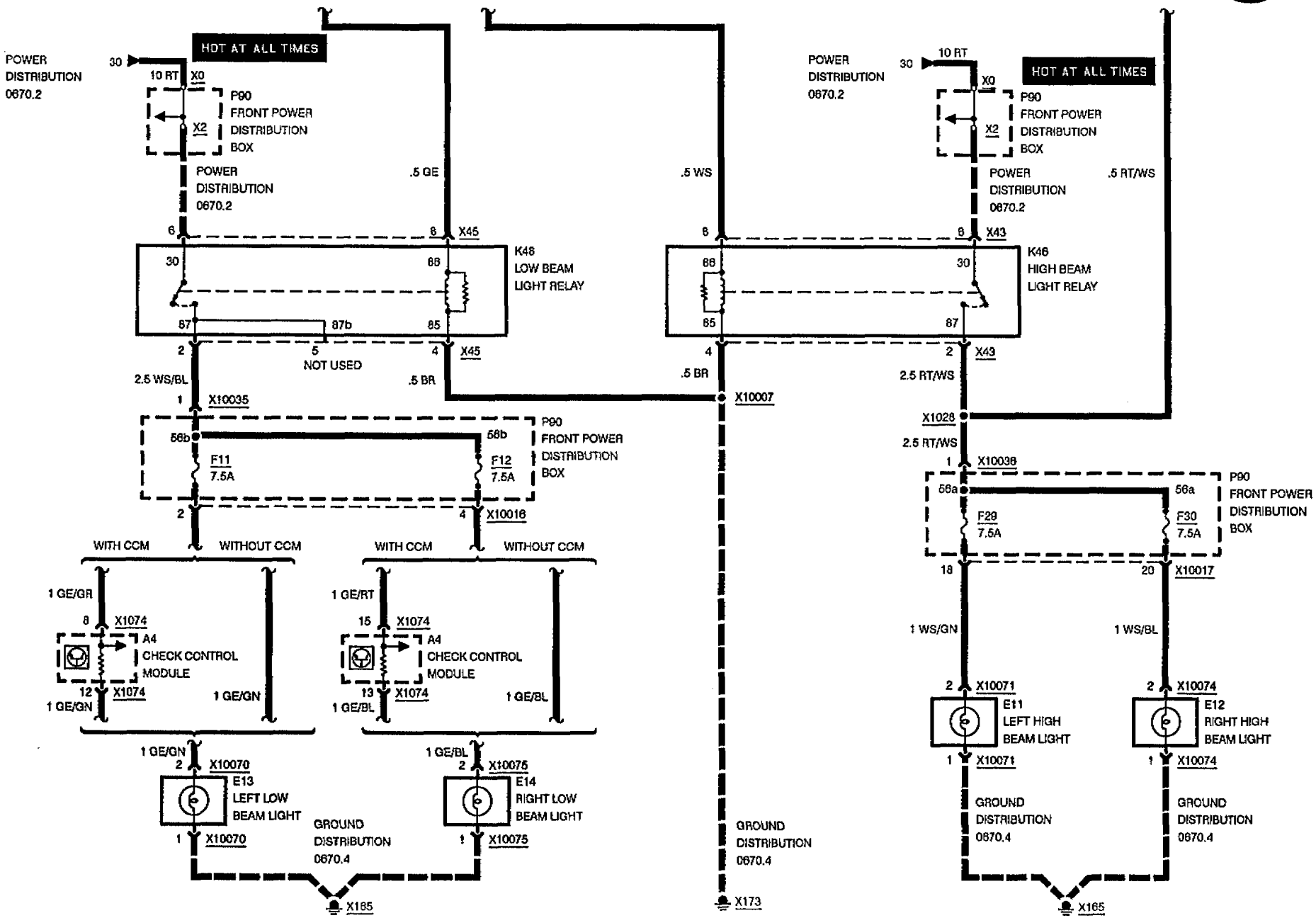


HEADLIGHTS/ FOG LIGHTS

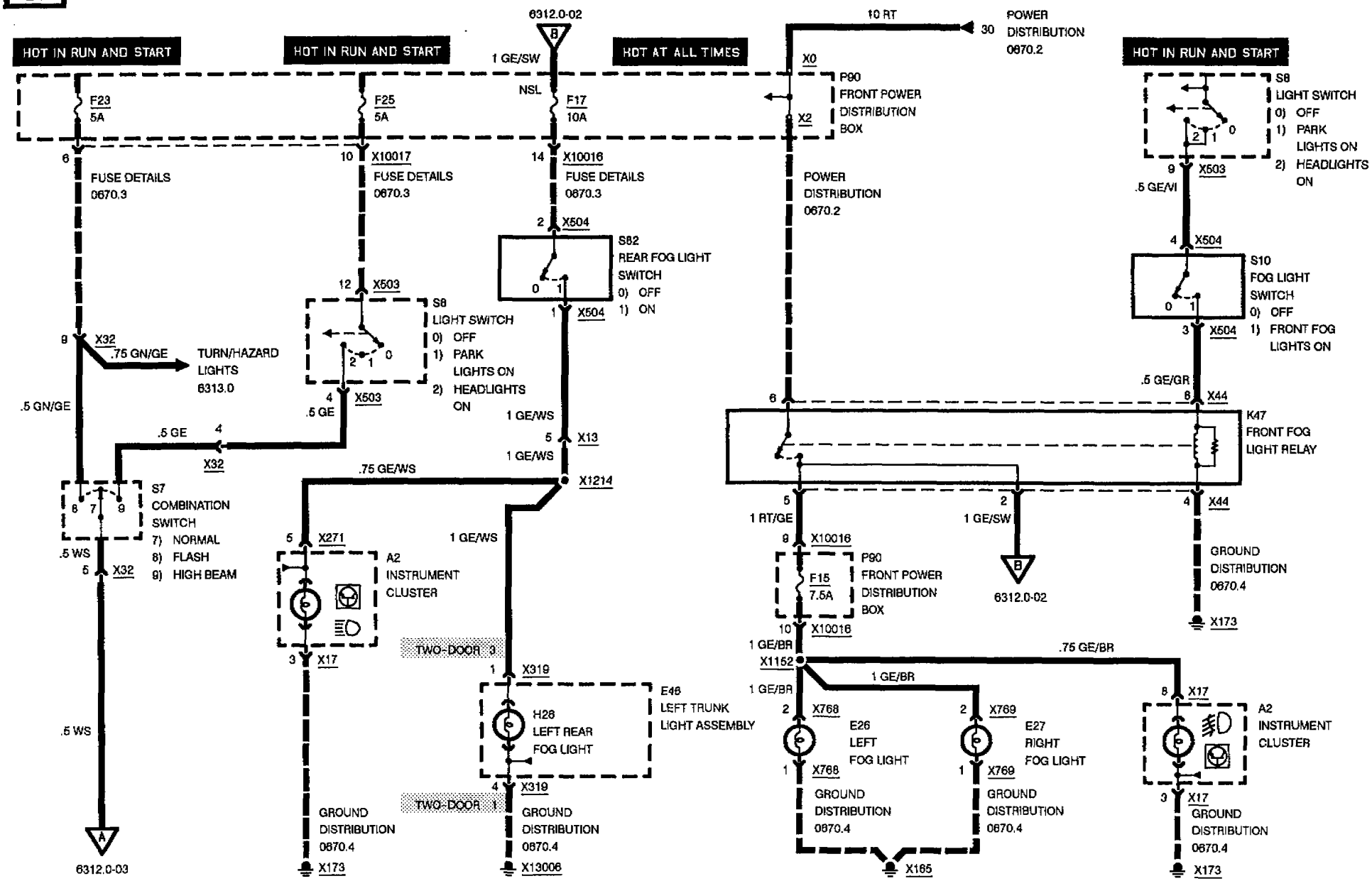
USA



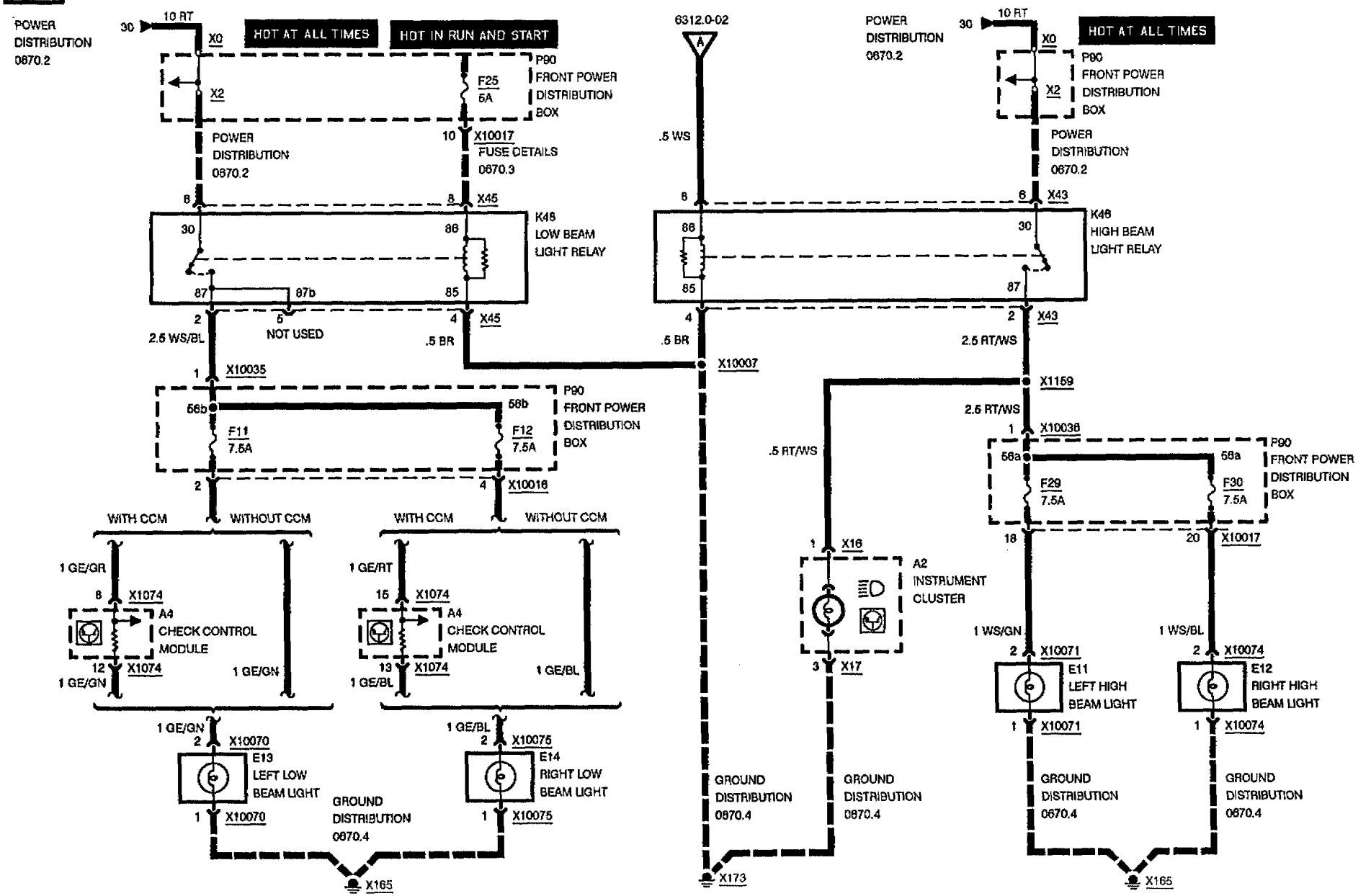
USA


HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
30
10 RT
X0
P90 FRONT POWER DISTRIBUTION BOX
X2
POWER DISTRIBUTION 0670.2
.5 GE
6
8
X45
K48 LOW BEAM LIGHT RELAY
30
86
87
87b
85
2
5
NOT USED
4
X45
2.5 WS/BL
.5 BR
1
X10035
56b
F11 7.5A
F12 7.5A
P90 FRONT POWER DISTRIBUTION BOX
2
4
X10016
WITH CCM
WITHOUT CCM
1 GE/GR
8
X1074
A4
CHECK CONTROL MODULE
12
X1074
1 GE/GN
1 GE/GN
1 GE/RT
15
X1074
13
X1074
1 GE/BL
1 GE/BL
1 GE/GN
2
X10070
E13 LEFT LOW BEAM LIGHT
1
X10070
1 GE/BL
2
X10075
E14 RIGHT LOW BEAM LIGHT
1
X10075
GROUND DISTRIBUTION 0670.4
X165
.5 WS
X10007
GROUND DISTRIBUTION 0670.4
X173
POWER DISTRIBUTION 0670.2
30
10 RT
X0
HOT AT ALL TIMES
P90 FRONT POWER DISTRIBUTION BOX
X2
POWER DISTRIBUTION 0670.2
.5 RT/WS
6
8
X43
K46 HIGH BEAM LIGHT RELAY
86
30
85
87
4
2
X43
.5 BR
2.5 RT/WS
X1026
2.5 RT/WS
1
X10036
56a
F29 7.5A
F30 7.5A
P90 FRONT POWER DISTRIBUTION BOX
18
20
X10017
1 WS/GN
1 WS/BL
2
X10071
E11 LEFT HIGH BEAM LIGHT
1
X10071
2
X10074
E12 RIGHT HIGH BEAM LIGHT
1
X10074
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X165

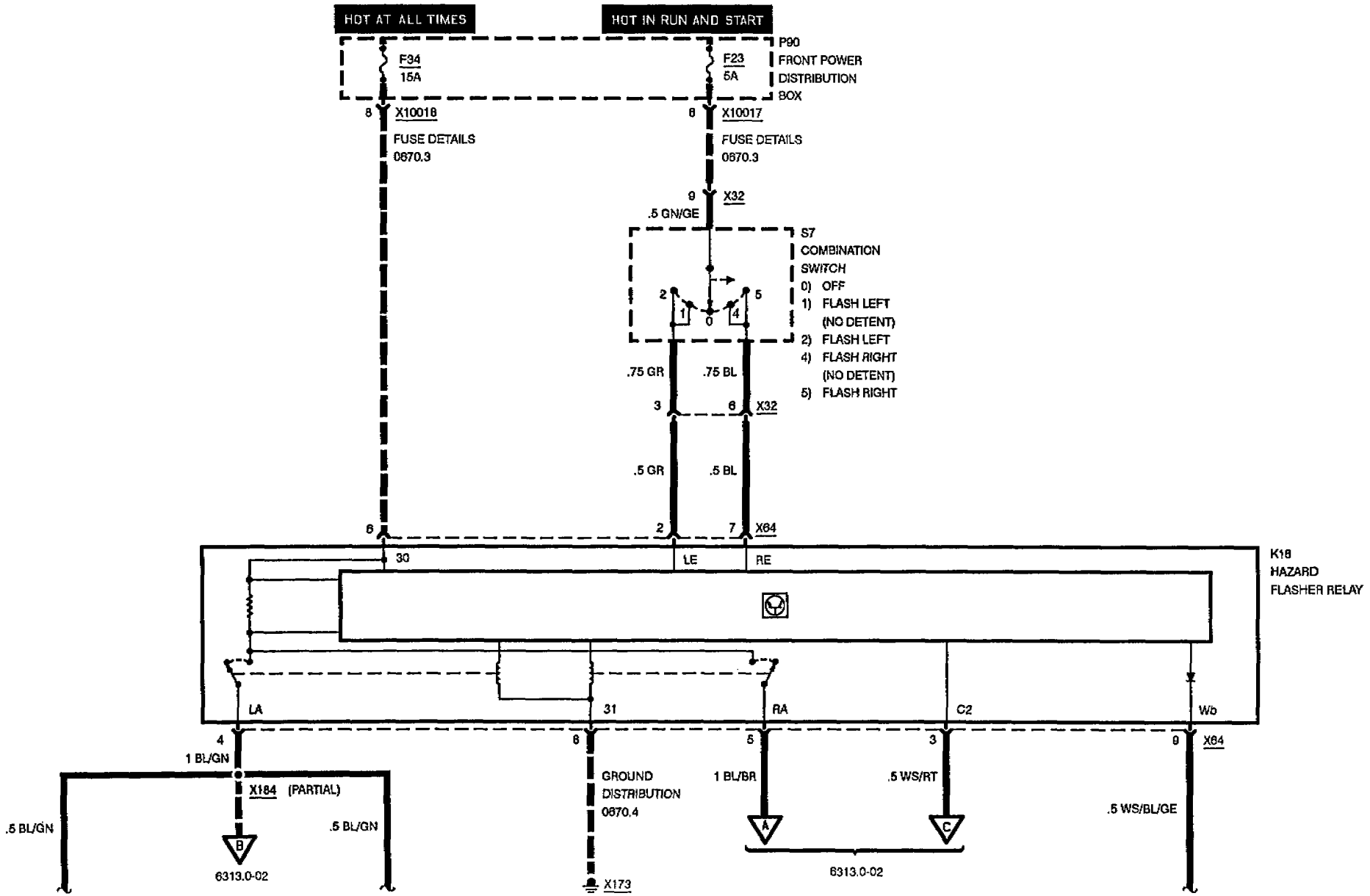
HEADLIGHTS/ FOG LIGHTS

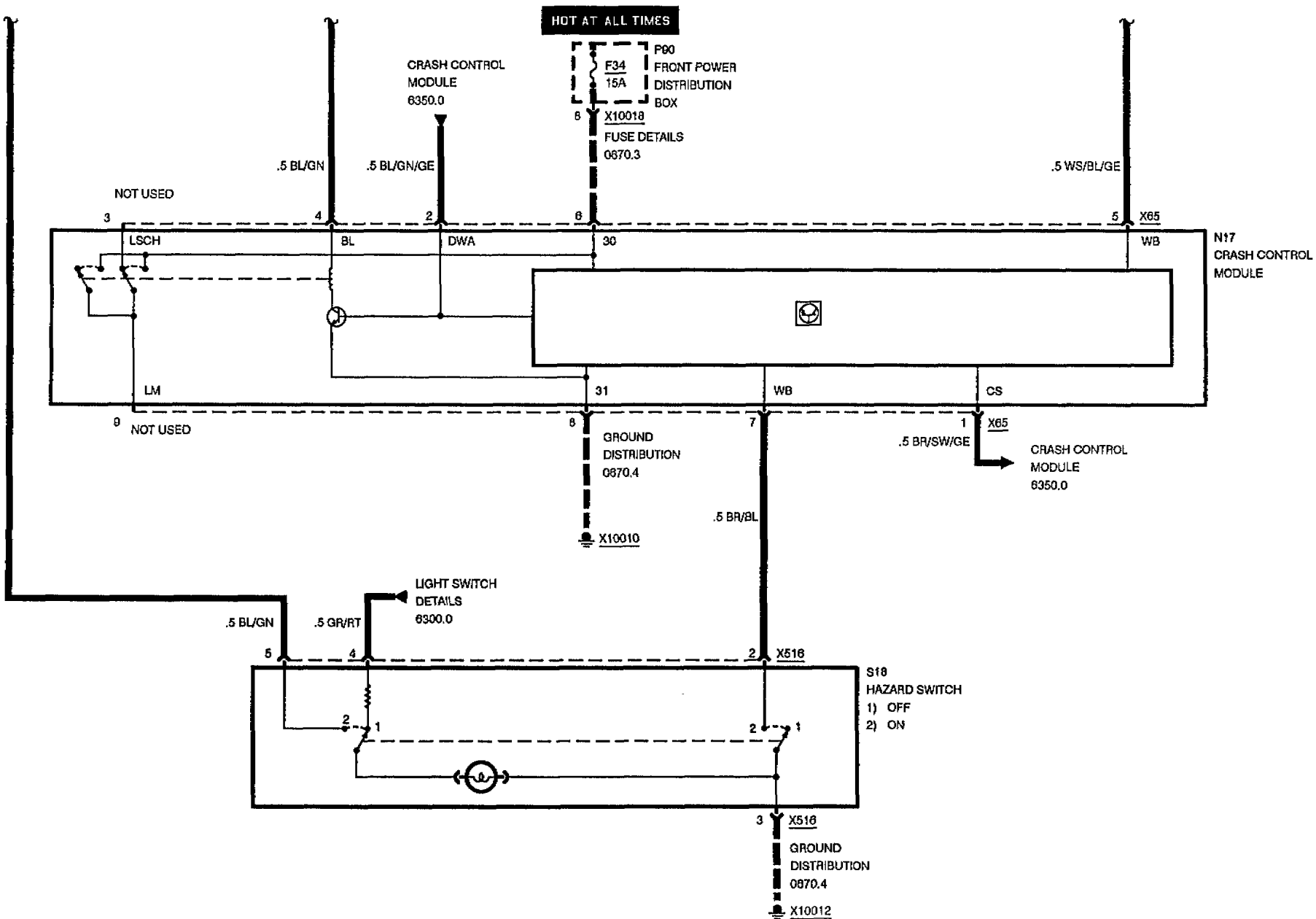


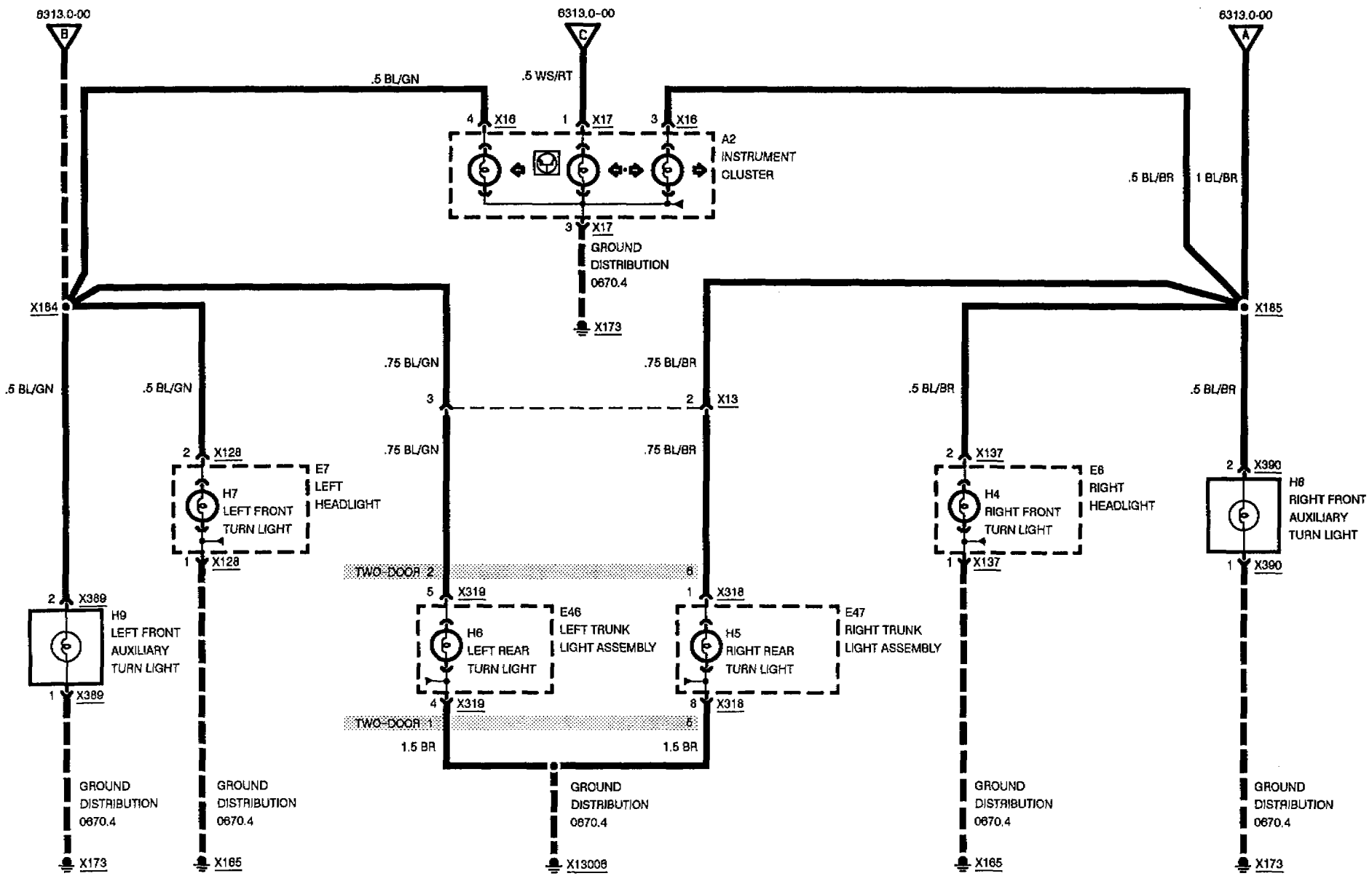
HEADLIGHTS/ FOG LIGHTS



TURN/HAZARD LIGHTS

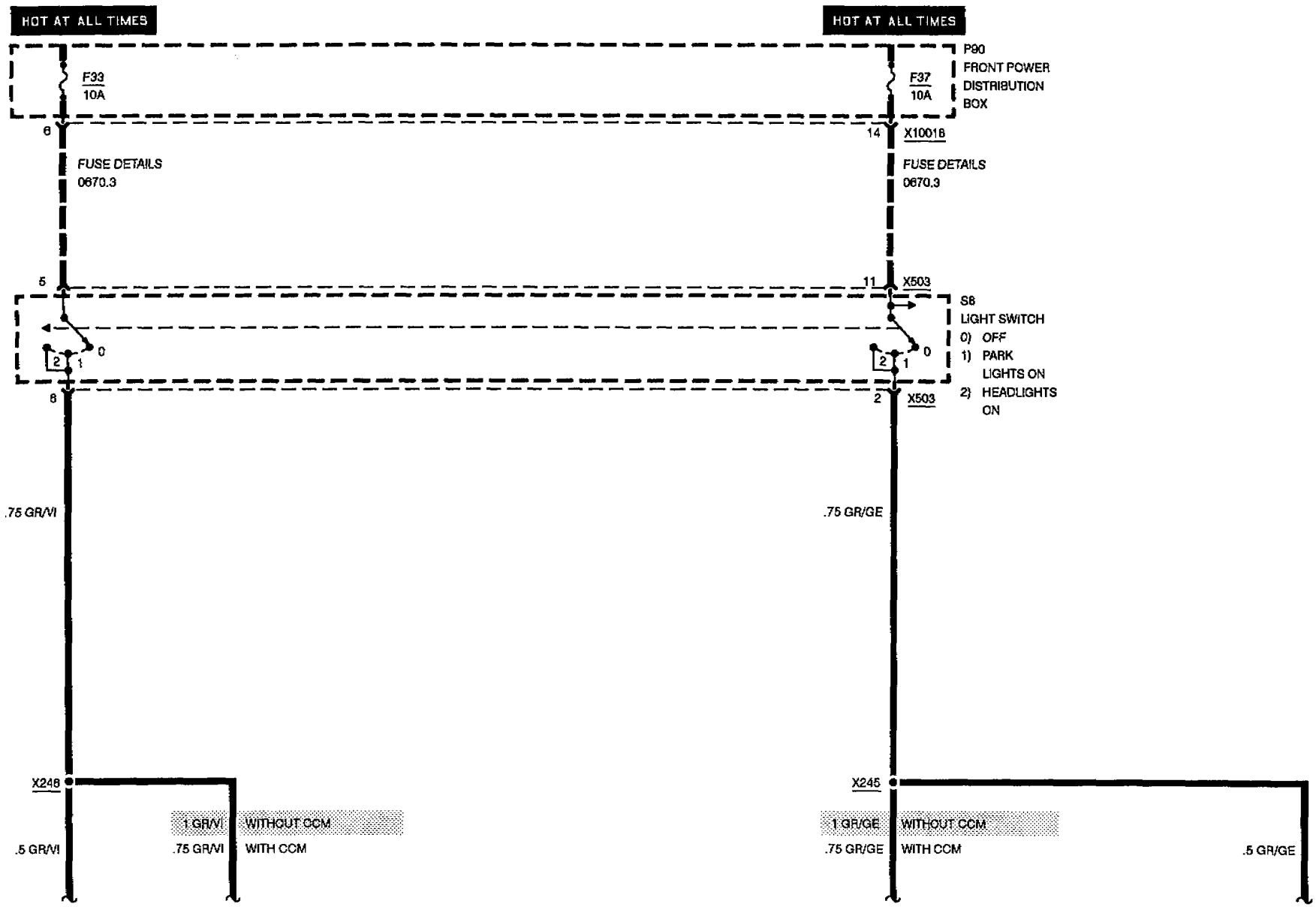


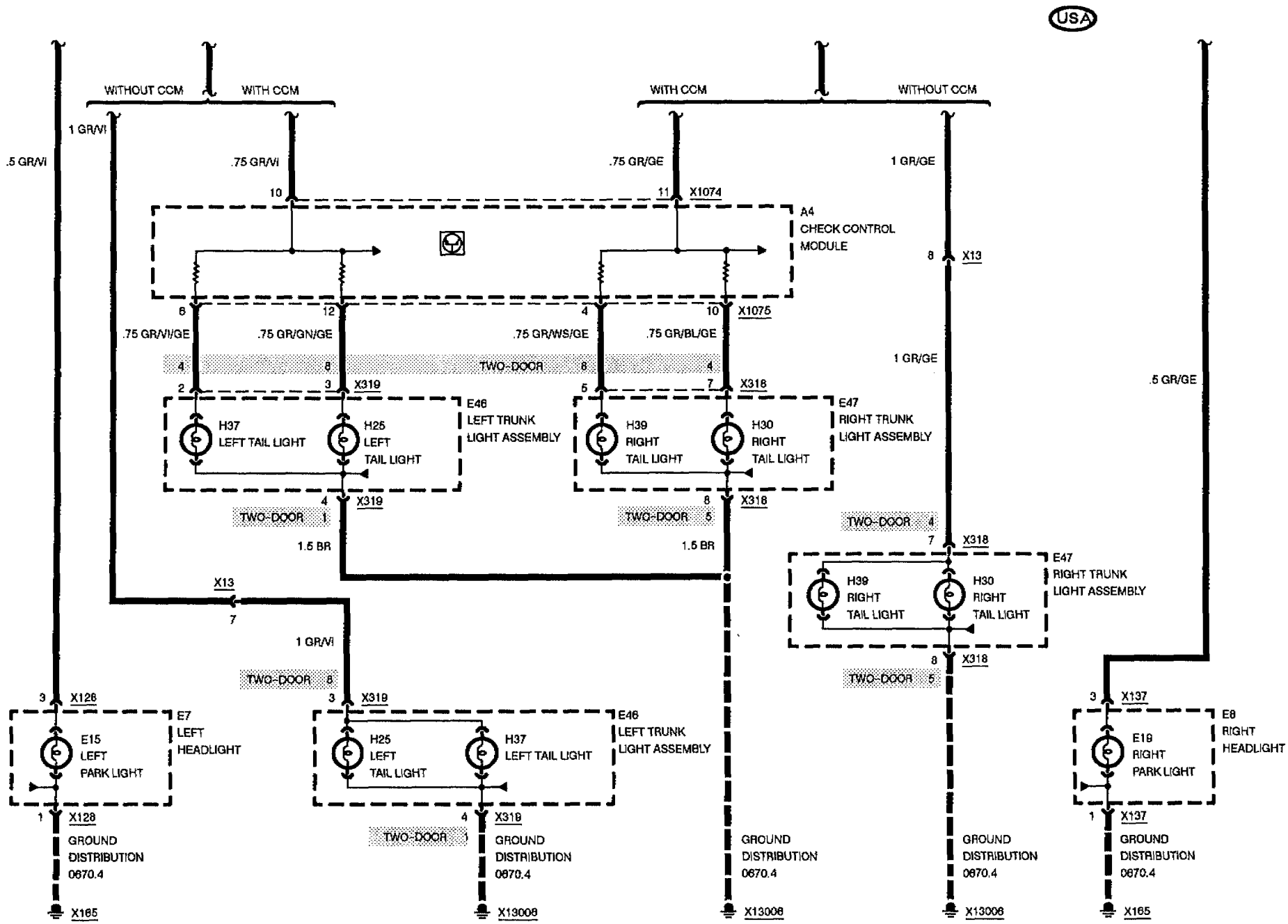

HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F34
15A
8
X10018
FUSE DETAILS
0670.3
CRASH CONTROL
MODULE
6350.0
.5 BL/GN
.5 BL/GN/GE
.5 WS/BL/GE
NOT USED
3
4
2
6
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
.5 BR/SW/GE
GROUND
DISTRIBUTION
0670.4
CRASH CONTROL
MODULE
6350.0
.5 BR/BL
X10010
LIGHT SWITCH
DETAILS
6300.0
.5 BL/GN
.5 GR/RT
5
4
2
X516
S18
HAZARD SWITCH
1) OFF
2) ON
2
1
2
1
3
X516
GROUND
DISTRIBUTION
0670.4
X10012


6313.0-00
B
6313.0-00
C
6313.0-00
A
.5 BL/GN
.5 WS/RT
4 X16
1 X17
3 X16
A2
INSTRUMENT
CLUSTER
.5 BL/BR
1 BL/BR
3 X17
GROUND
DISTRIBUTION
0670.4
X173
X184
X185
.75 BL/GN
.75 BL/BR
3
2 X13
.5 BL/GN
.5 BL/GN
.5 BL/BR
.5 BL/BR
2 X128
.75 BL/GN
.75 BL/BR
2 X137
2 X390
E7
LEFT
HEADLIGHT
H7
LEFT FRONT
TURN LIGHT
1 X128
E6
RIGHT
HEADLIGHT
H4
RIGHT FRONT
TURN LIGHT
1 X137
H8
RIGHT FRONT
AUXILIARY
TURN LIGHT
1 X390
TWO-DOOR 2
6
5 X319
1 X318
2 X389
E46
LEFT TRUNK
LIGHT ASSEMBLY
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H6
LEFT REAR
TURN LIGHT
H5
RIGHT REAR
TURN LIGHT
H9
LEFT FRONT
AUXILIARY
TURN LIGHT
4 X319
8 X318
1 X389
TWO-DOOR 1
5
1.5 BR
1.5 BR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X173
X165
X13006
X165
X173

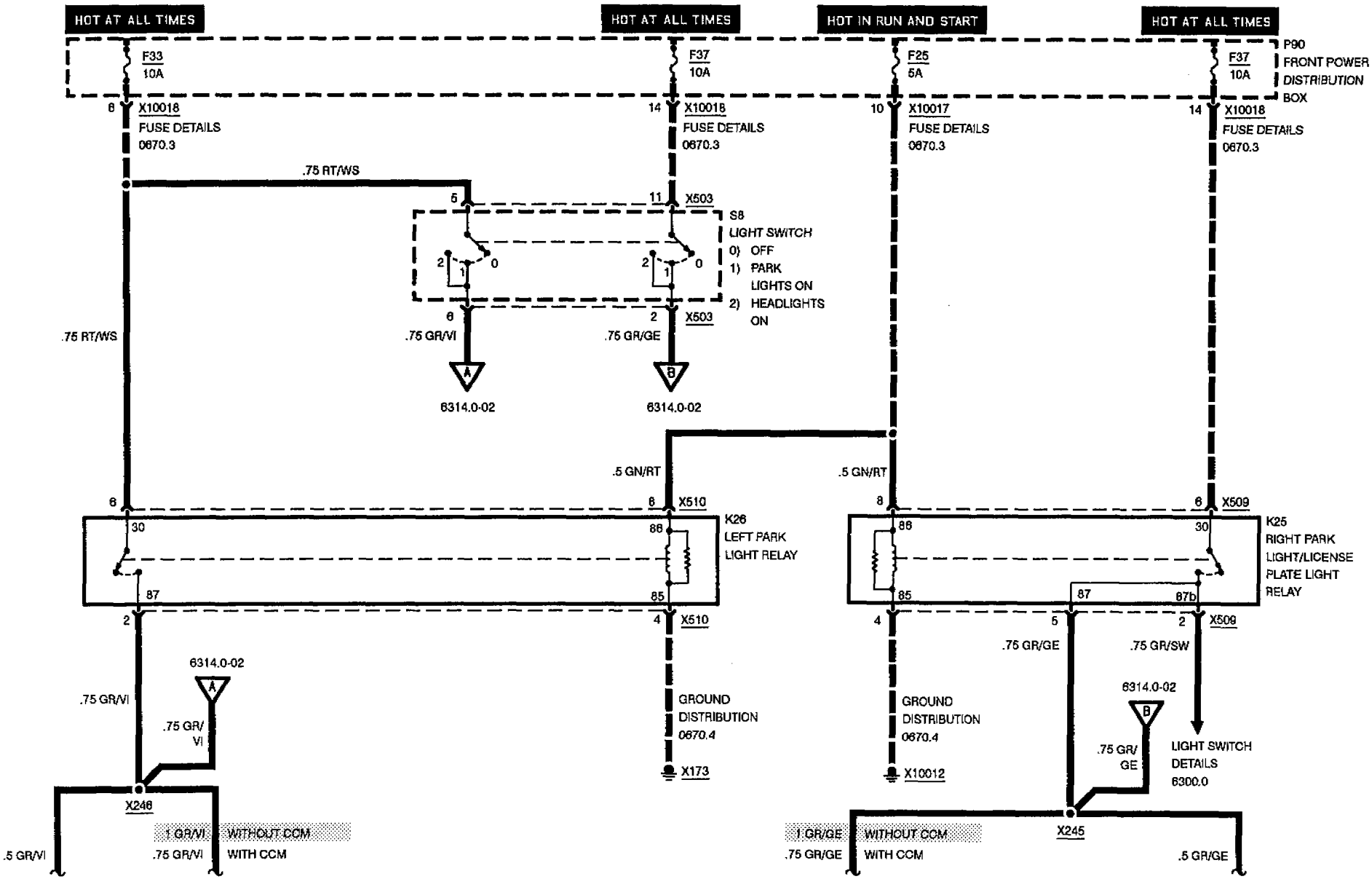
PARK/TAIL LIGHTS

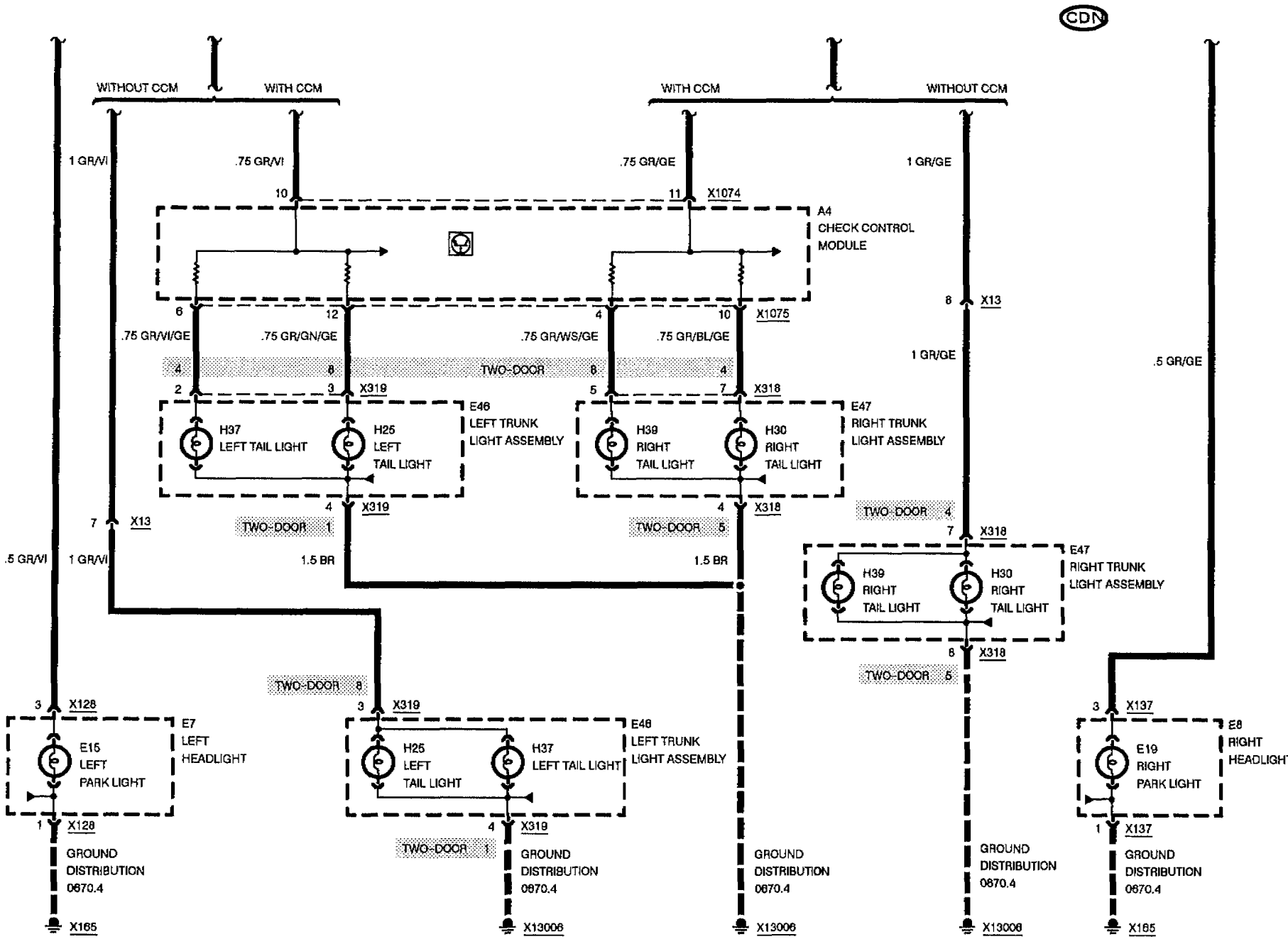
USA



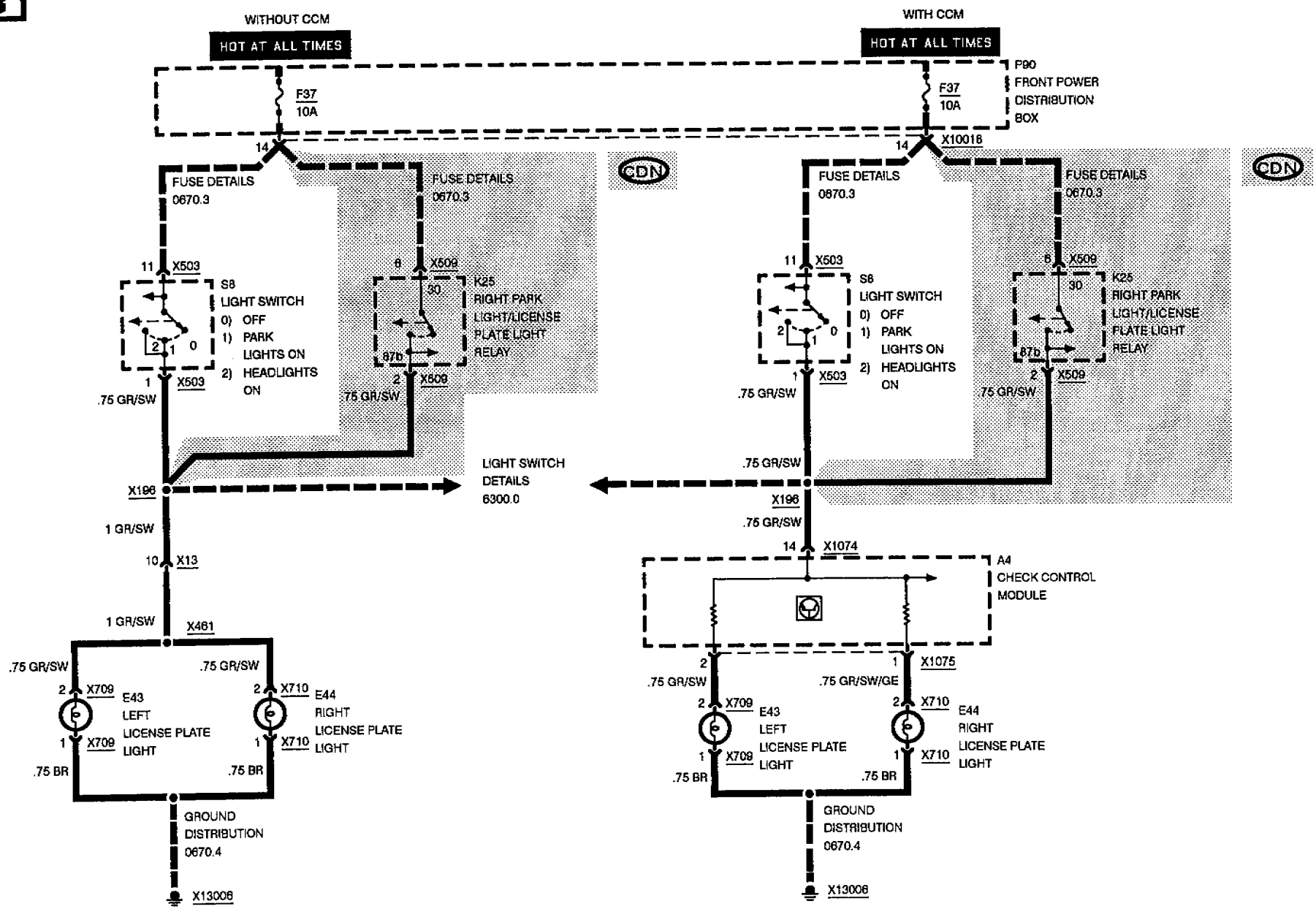

USA
WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.5 GR/VI
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
10
11 X1074
A4
CHECK CONTROL
MODULE
8 X13
6
12
4
10 X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
1 GR/GE
.5 GR/GE
TWO-DOOR
2
3 X319
5
7 X318
E46
LEFT TRUNK
LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT
TAIL LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
4 X319
TWO-DOOR 1
8 X318
TWO-DOOR 5
1.5 BR
1.5 BR
TWO-DOOR 4
7 X318
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
8 X318
TWO-DOOR 5
X13
7
1 GR/VI
TWO-DOOR 6
3 X126
3 X319
3 X137
E7
LEFT
HEADLIGHT
E15
LEFT
PARK LIGHT
E46
LEFT TRUNK
LIGHT ASSEMBLY
H25
LEFT
TAIL LIGHT
H37
LEFT TAIL LIGHT
E8
RIGHT
HEADLIGHT
E19
RIGHT
PARK LIGHT
1 X128
4 X319
TWO-DOOR 1
1 X137
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X165
X13006
X13006
X13006
X165

PARK/TAIL LIGHTS

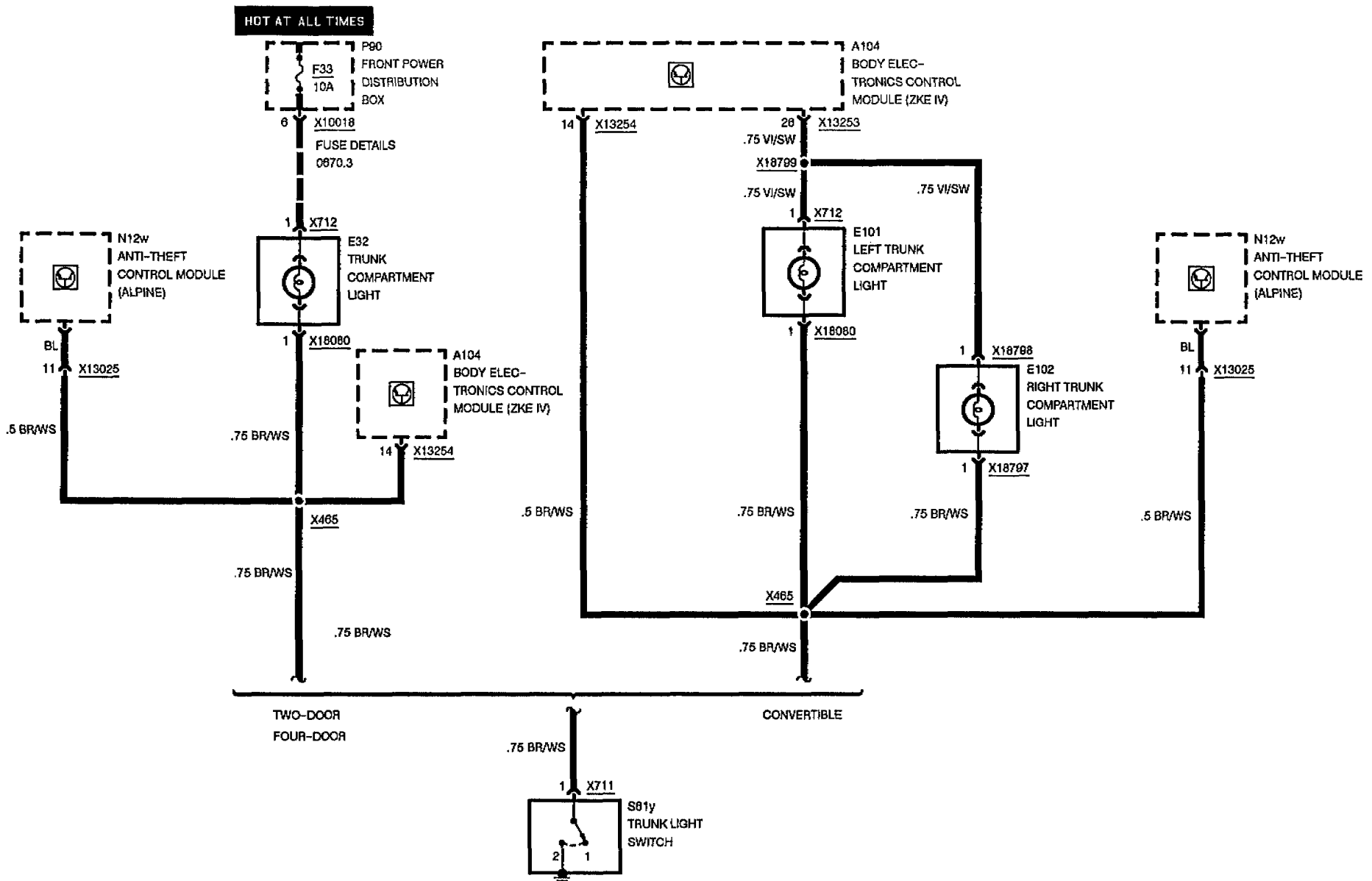



CDN
WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
10
11
X1074
A4
CHECK CONTROL
MODULE
6
12
4
10
X1075
8
X13
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
1 GR/GE
.5 GR/GE
TWO-DOOR
2
3
X318
5
7
X318
E46
LEFT TRUNK
LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT
TAIL LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
4
X319
4
X318
TWO-DOOR 1
TWO-DOOR 5
TWO-DOOR 4
7
X13
7
X318
.5 GR/VI
1 GR/VI
1.5 BR
1.5 BR
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
8
X318
TWO-DOOR 8
TWO-DOOR 5
3
X128
3
X319
3
X137
E7
LEFT
HEADLIGHT
E15
LEFT
PARK LIGHT
E48
LEFT TRUNK
LIGHT ASSEMBLY
H25
LEFT
TAIL LIGHT
H37
LEFT TAIL LIGHT
E8
RIGHT
HEADLIGHT
E19
RIGHT
PARK LIGHT
1
X128
4
X319
1
X137
TWO-DOOR 1
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X165
X13006
X13006
X13006
X165

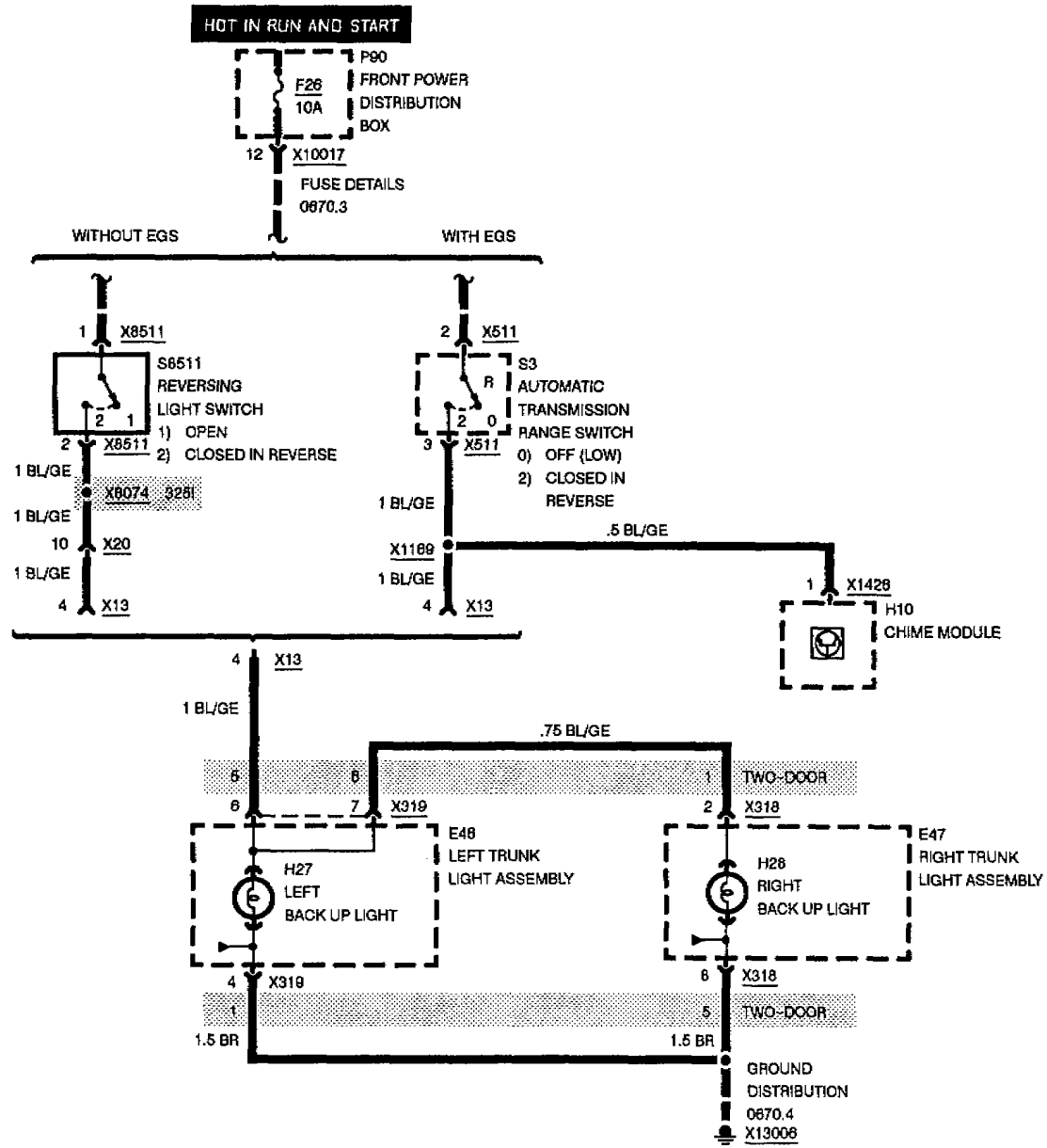
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS



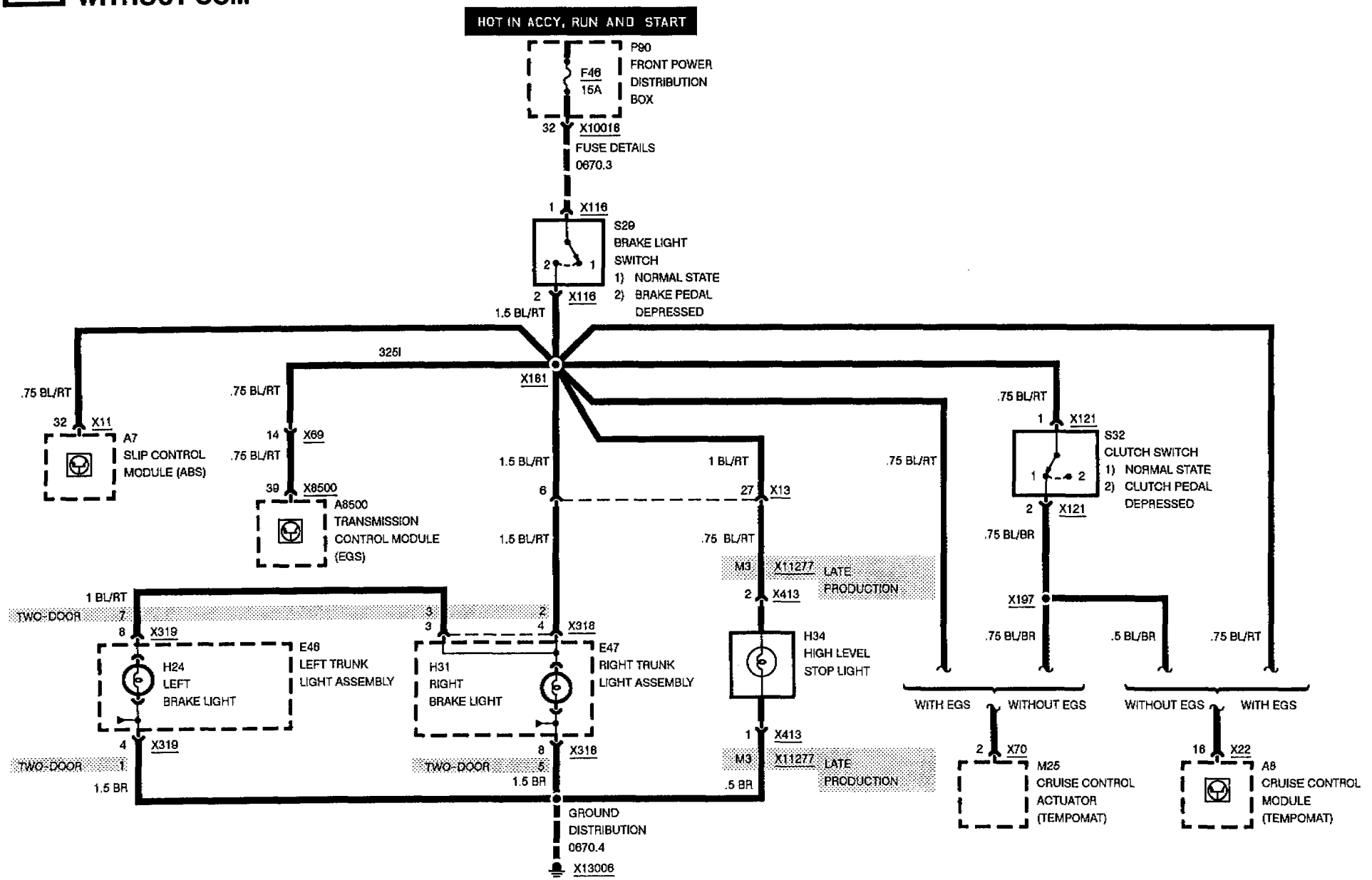
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS



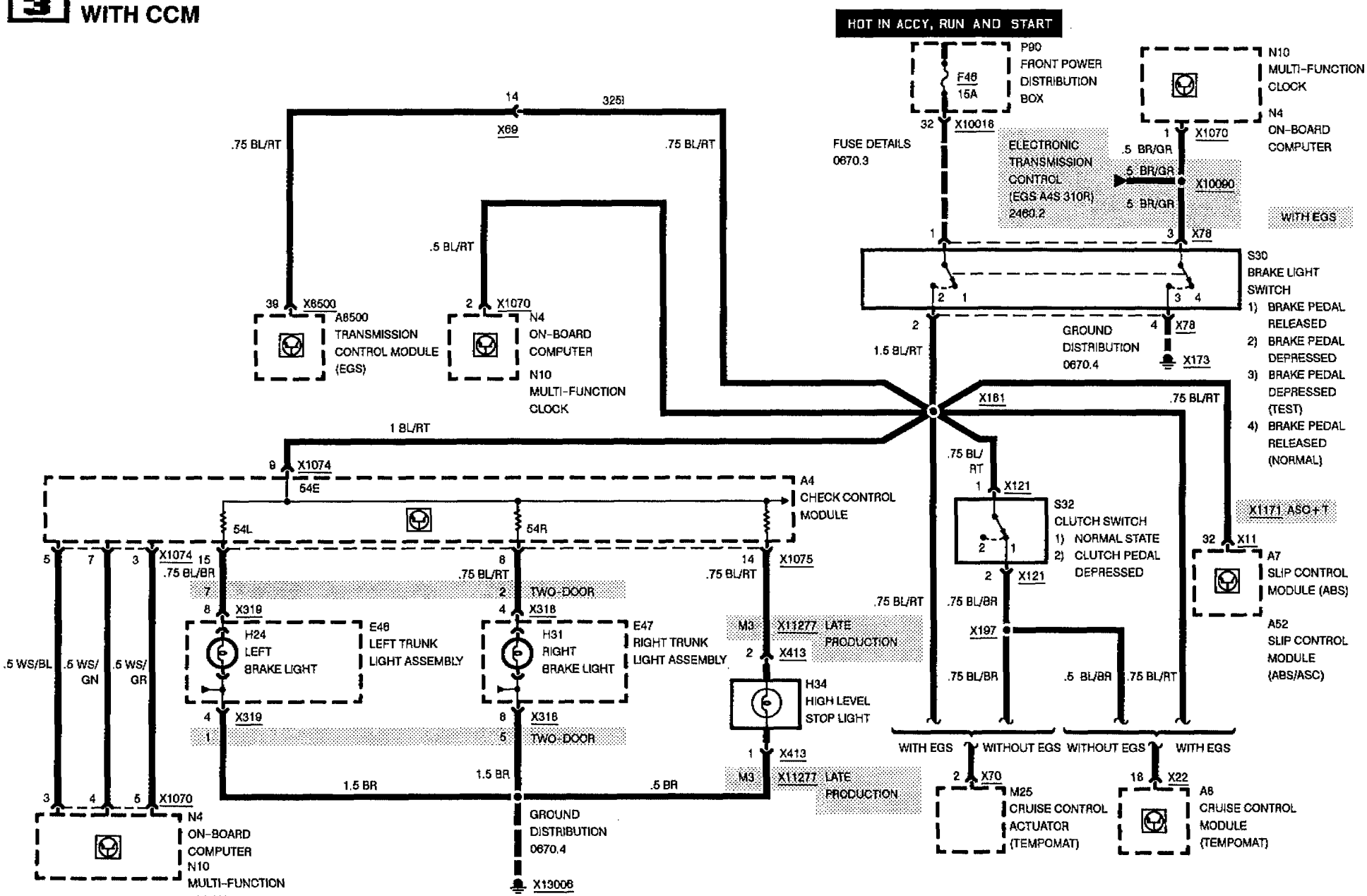
BACK UP LIGHTS

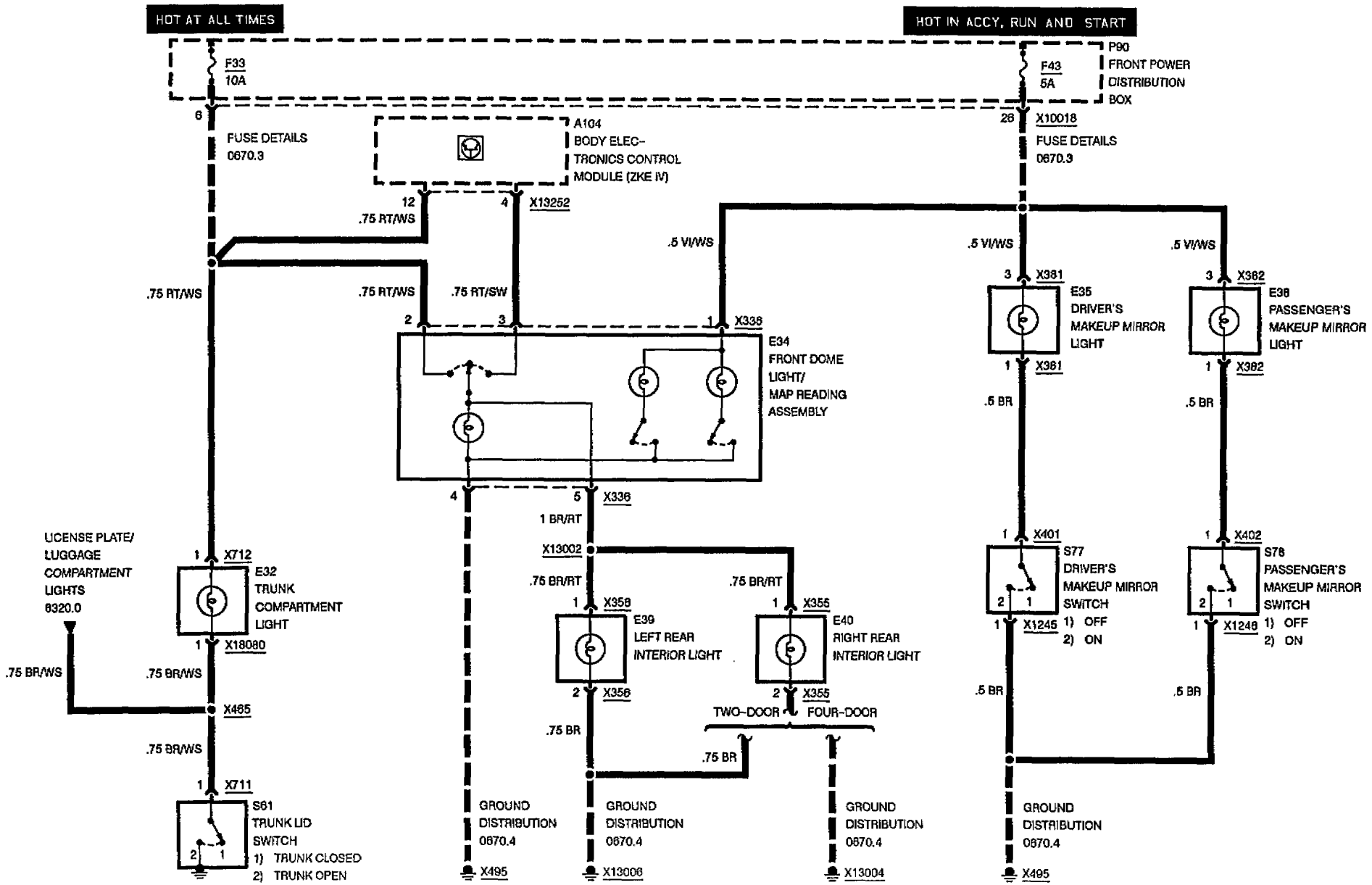


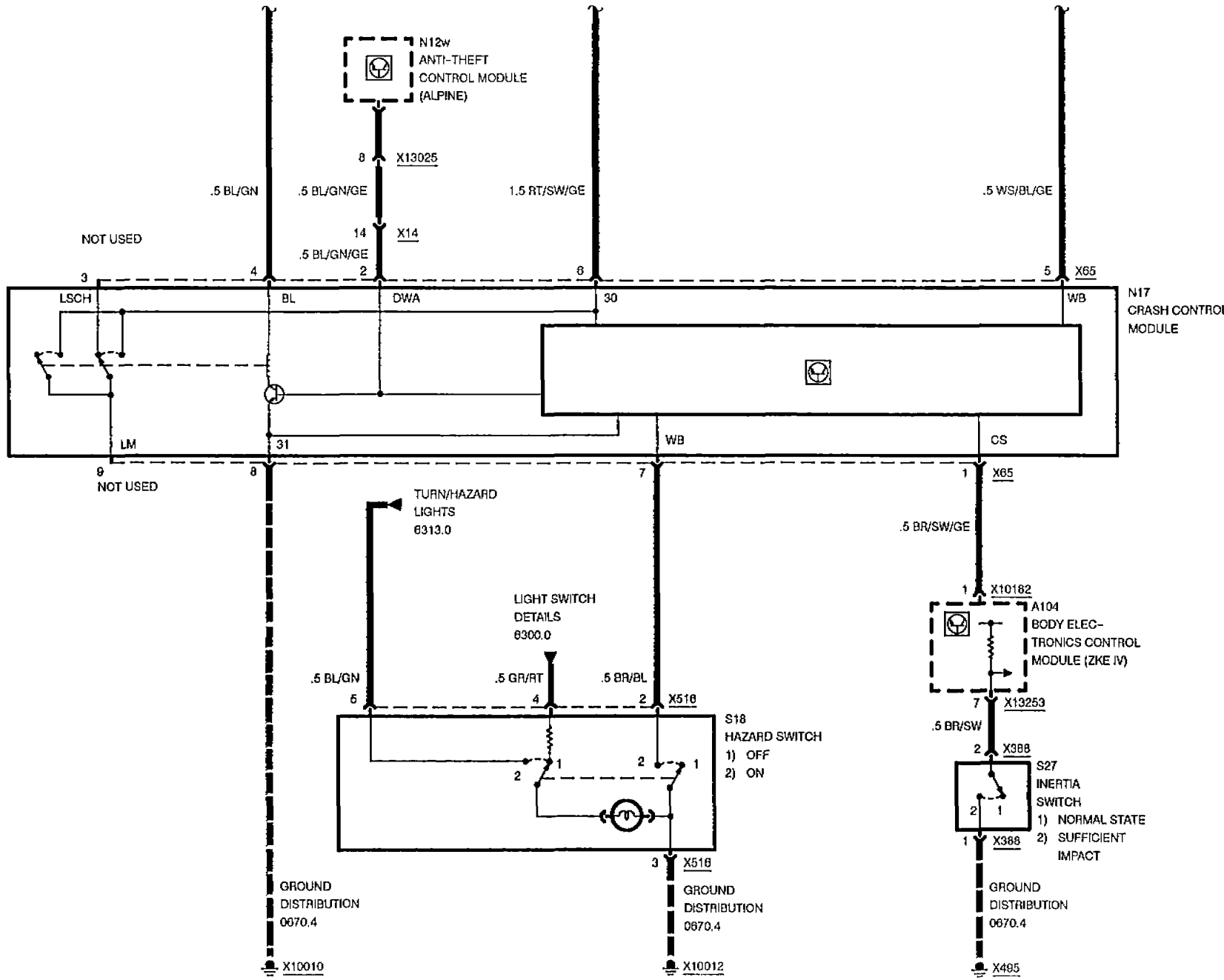
BRAKE LIGHTS
WITHOUT CCM



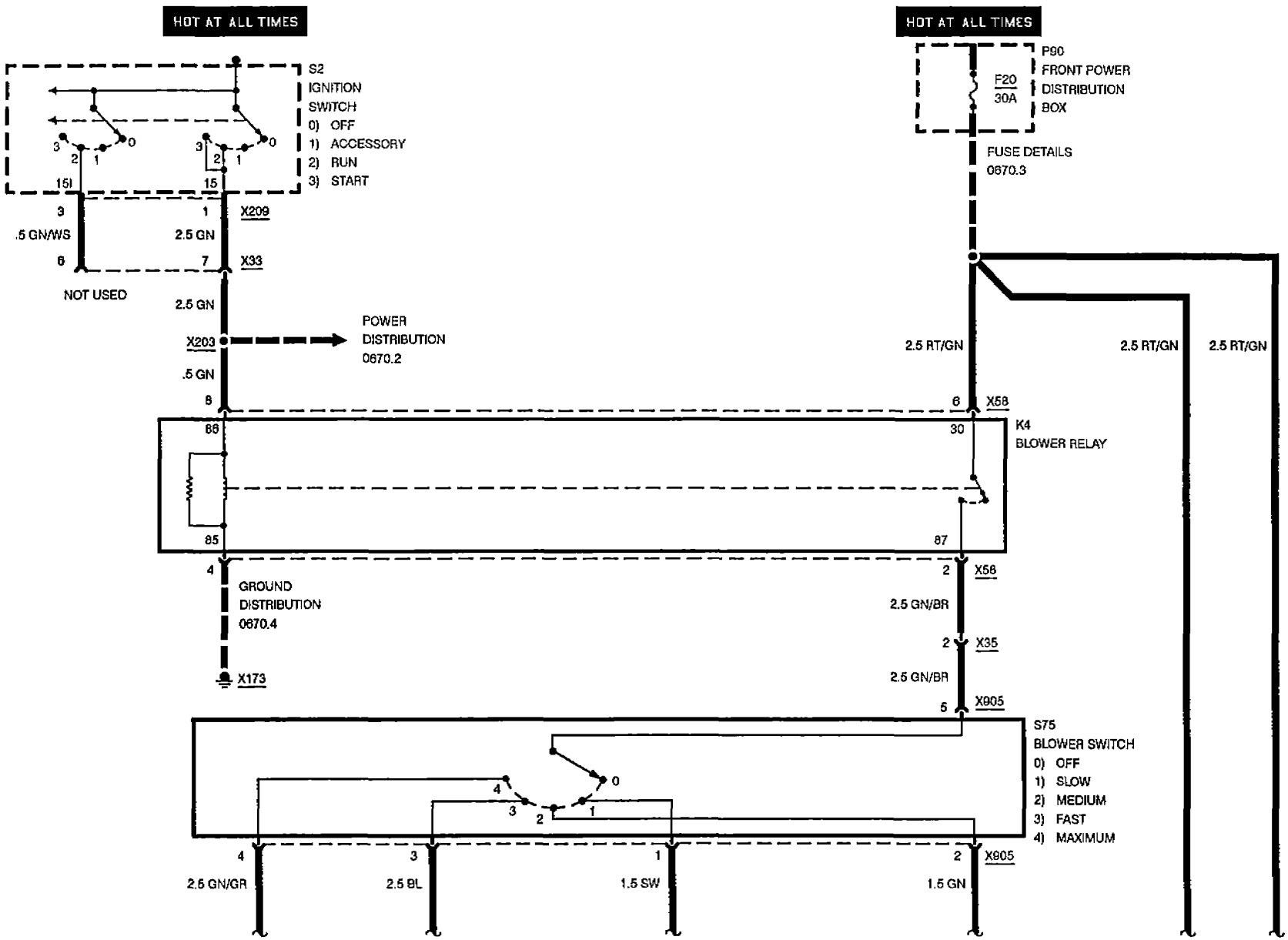
BRAKE LIGHTS
WITH CCM



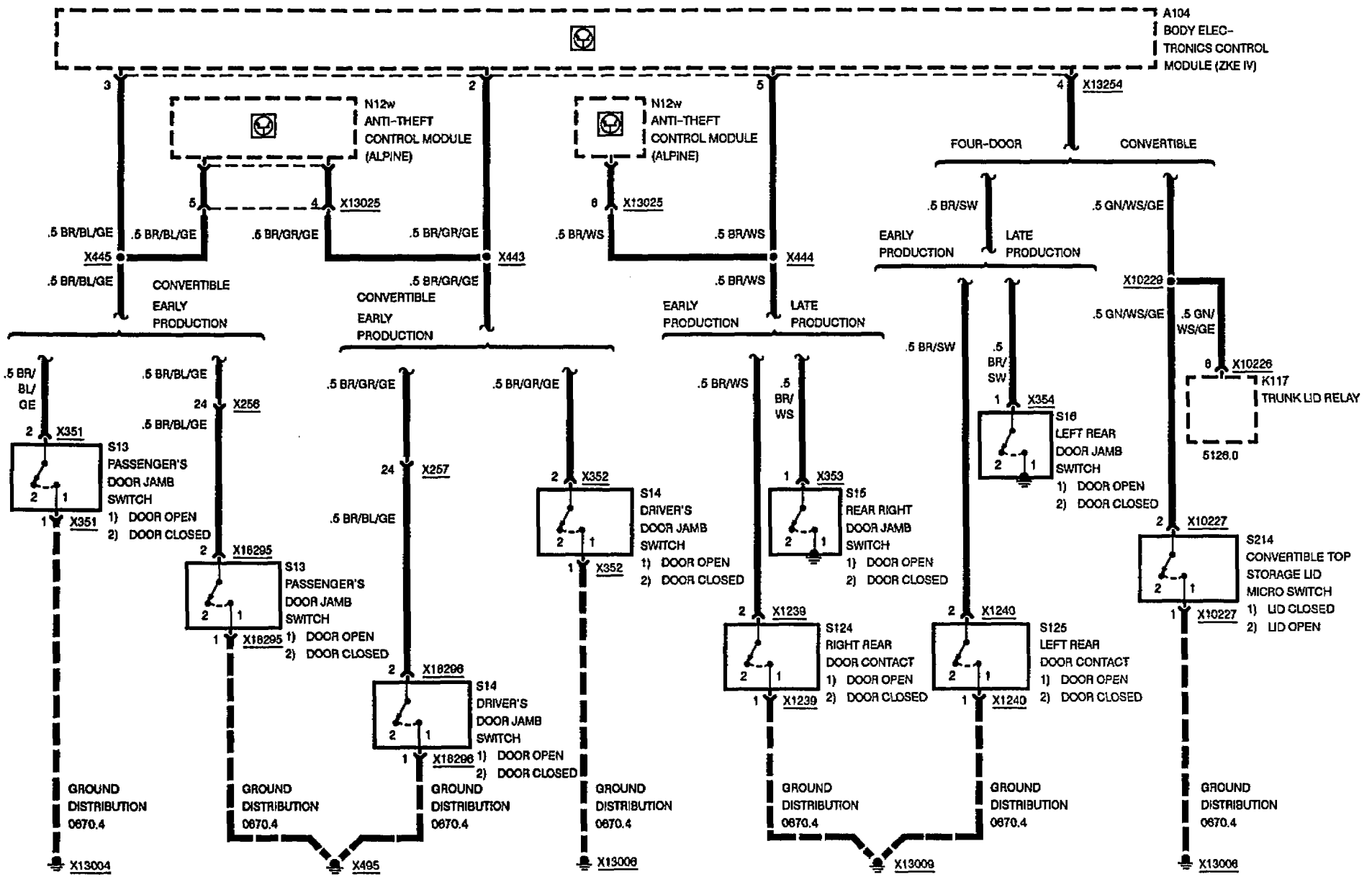

HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
F33
10A
F43
5A
P90
FRONT POWER
DISTRIBUTION
BOX
6
FUSE DETAILS
0670.3
28
X10018
FUSE DETAILS
0670.3
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
12
.75 RT/WS
4
X13252
.5 VI/WS
.5 VI/WS
.5 VI/WS
.75 RT/WS
.75 RT/WS
.75 RT/SW
2
3
1
X336
E34
FRONT DOME
LIGHT/
MAP READING
ASSEMBLY
3
X381
E35
DRIVER'S
MAKEUP MIRROR
LIGHT
1
X381
3
X382
E36
PASSENGER'S
MAKEUP MIRROR
LIGHT
1
X382
.5 BR
.5 BR
4
5
X336
1 BR/RT
LICENSE PLATE/
LUGGAGE
COMPARTMENT
LIGHTS
6320.0
1
X712
E32
TRUNK
COMPARTMENT
LIGHT
1
X18080
X13002
.75 BR/RT
.75 BR/RT
1
X358
E39
LEFT REAR
INTERIOR LIGHT
2
X356
1
X355
E40
RIGHT REAR
INTERIOR LIGHT
2
X355
1
X401
S77
DRIVER'S
MAKEUP MIRROR
SWITCH
2
1
1
X1245
1) OFF
2) ON
1
X402
S78
PASSENGER'S
MAKEUP MIRROR
SWITCH
2
1
1
X1246
1) OFF
2) ON
.75 BR/WS
.75 BR/WS
.5 BR
.5 BR
X465
TWO-DOOR
FOUR-DOOR
.75 BR
.75 BR/WS
.75 BR
1
X711
S61
TRUNK LID
SWITCH
2
1
1) TRUNK CLOSED
2) TRUNK OPEN
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X495
X13006
X13004
X495


N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
8
X13025
.5 BL/GN
.5 BL/GN/GE
1.5 RT/SW/GE
.5 WS/BL/GE
NOT USED
14
X14
.5 BL/GN/GE
3
4
2
6
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
TURN/HAZARD
LIGHTS
6313.0
.5 BR/SW/GE
LIGHT SWITCH
DETAILS
6300.0
1
X10182
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2
X516
7
X13253
.5 BR/SW
S18
HAZARD SWITCH
1) OFF
2) ON
2
X388
S27
INERTIA
SWITCH
1) NORMAL STATE
2) SUFFICIENT
IMPACT
1
X388
3
X516
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X10010
X10012
X495

PARK VENTILATION WITH IHKR

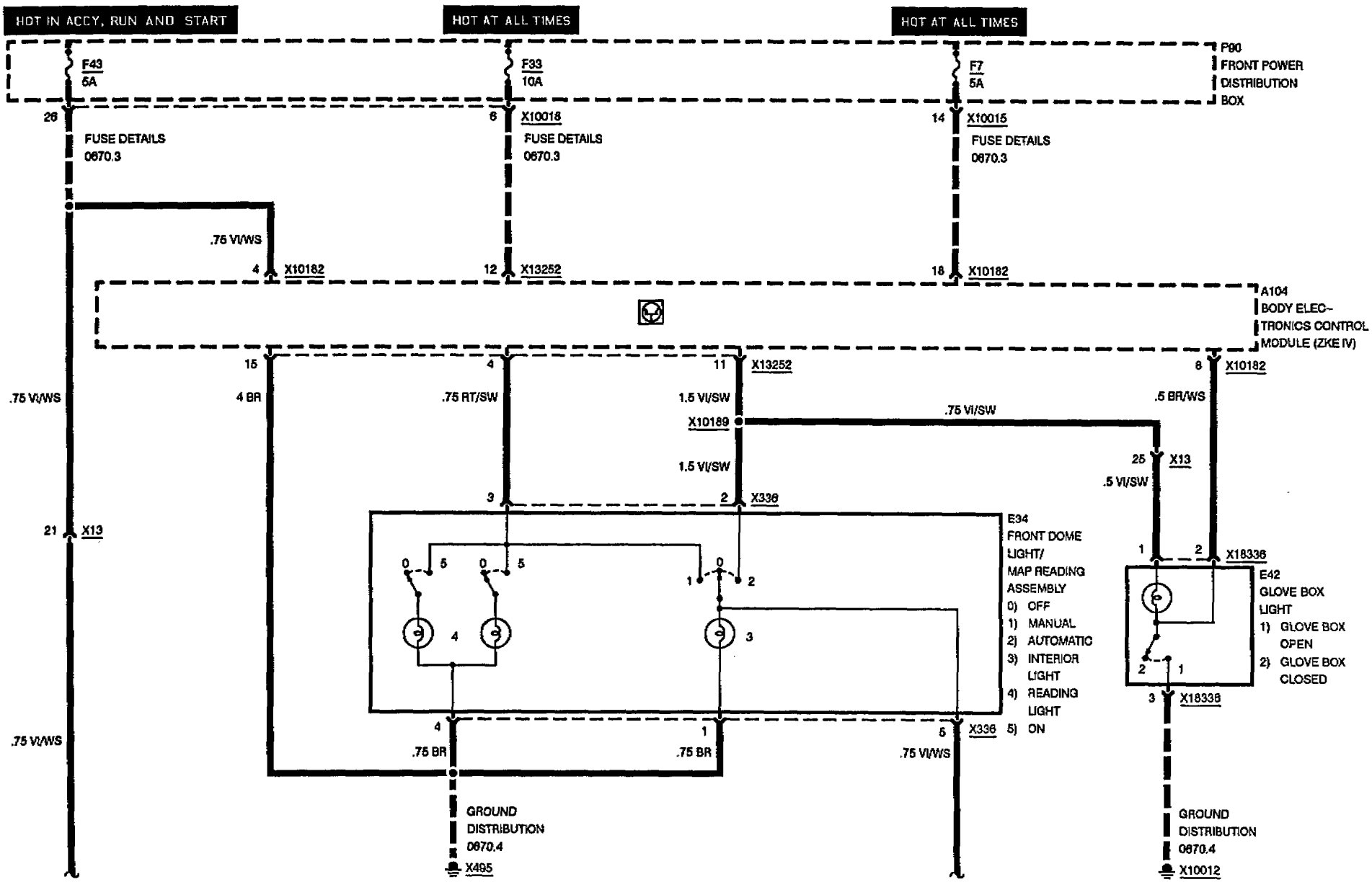


BMW 3 INTERIOR LIGHTS

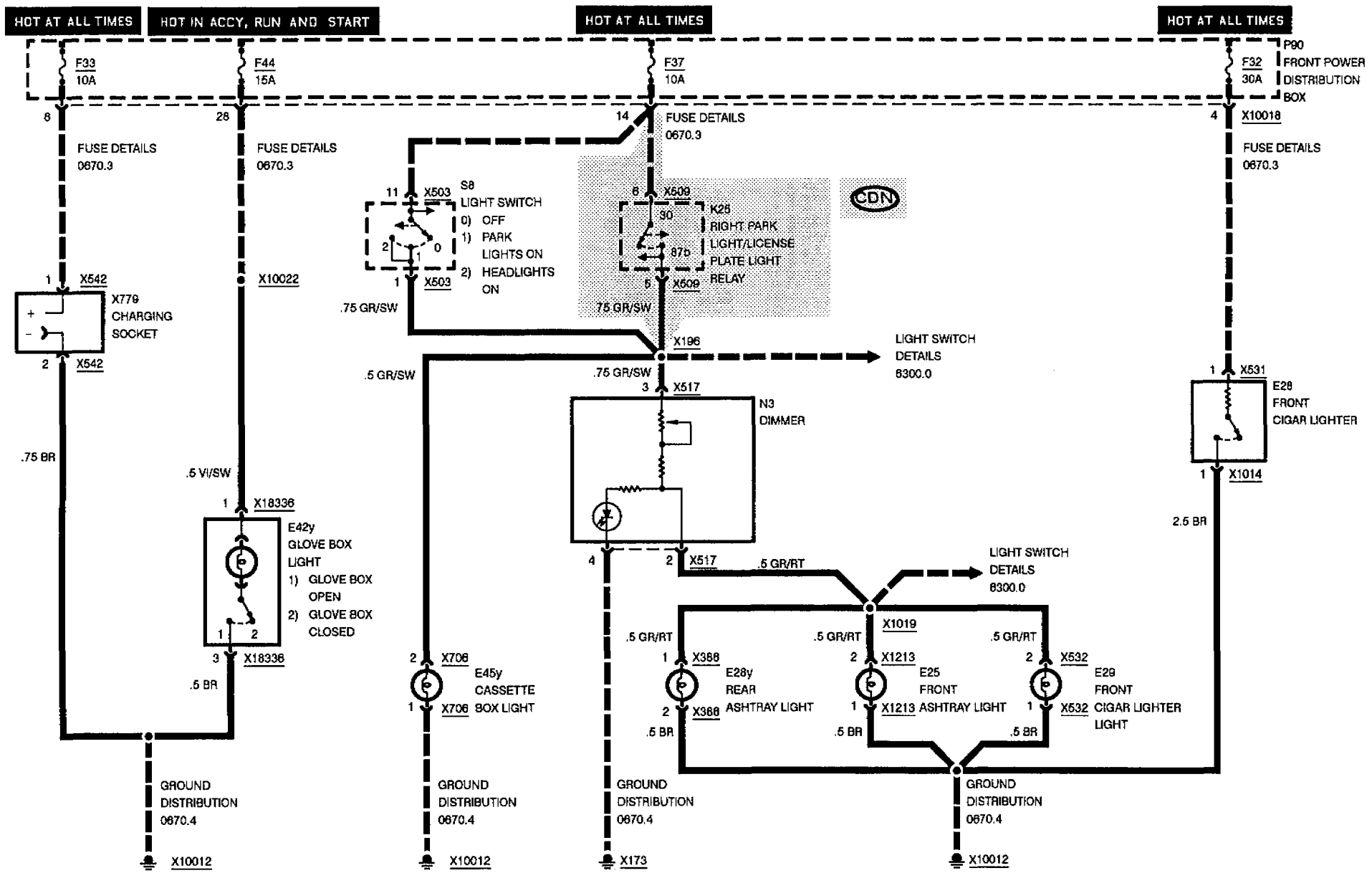


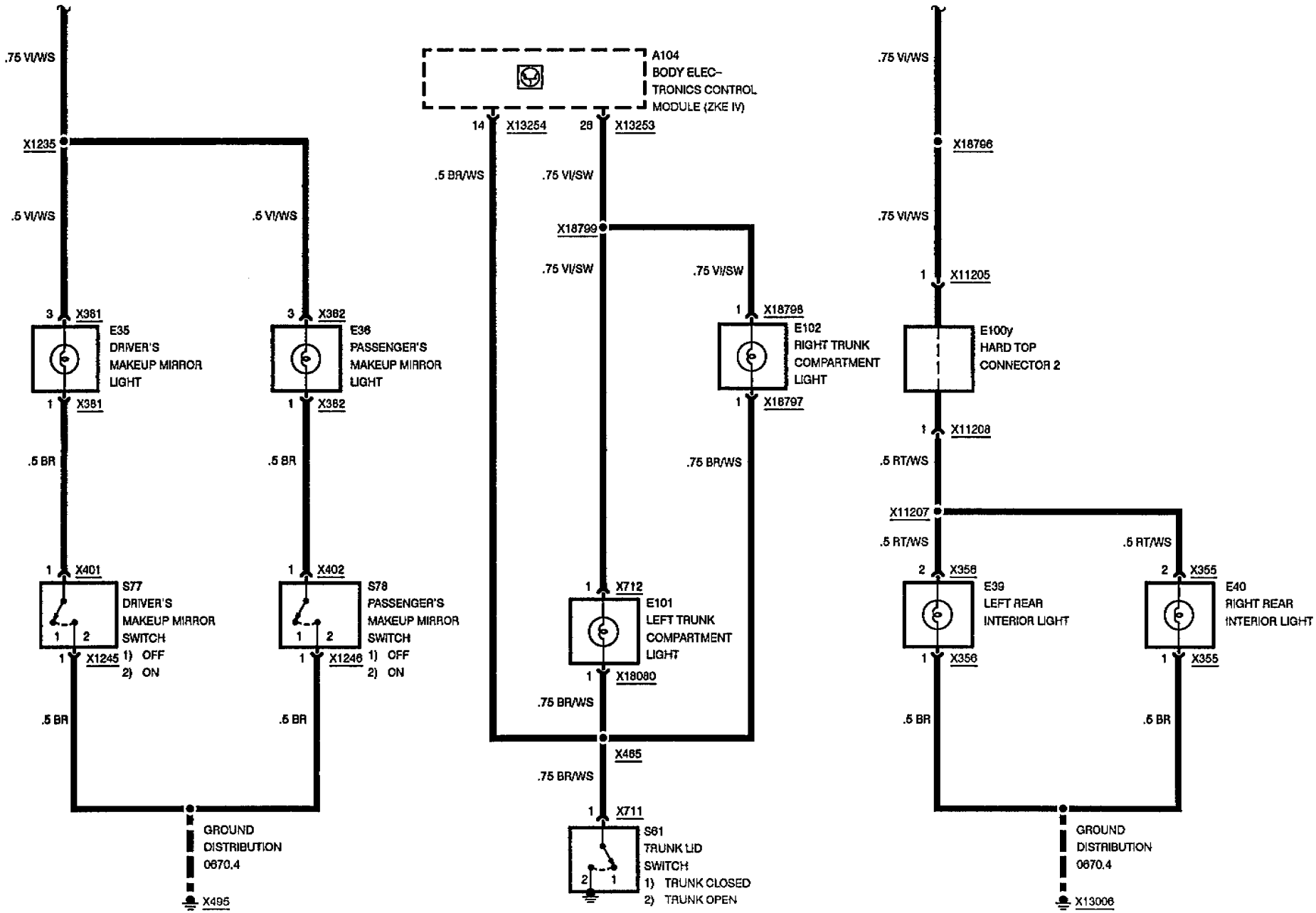
INTERIOR LIGHTS

CONVERTIBLE

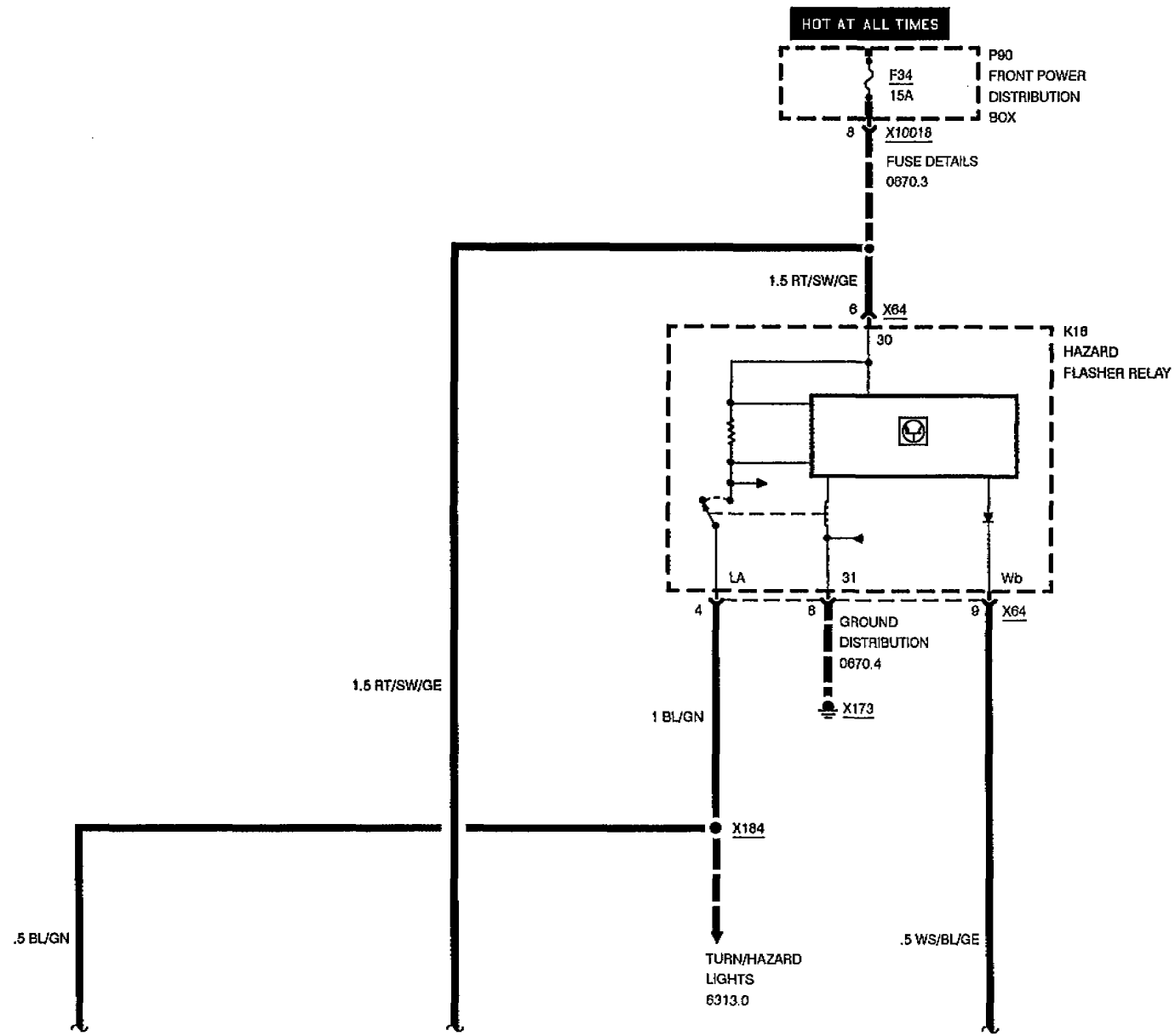


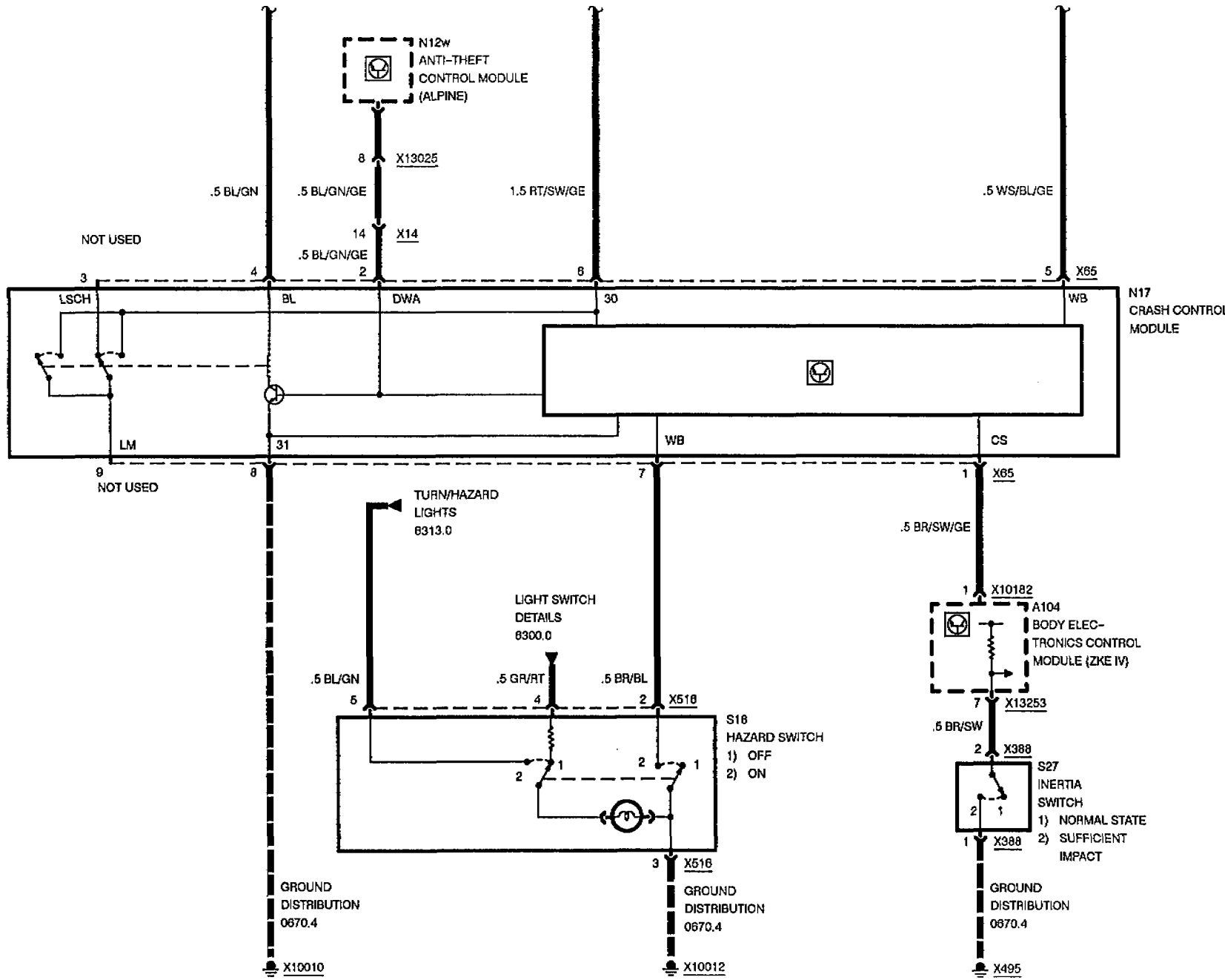
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER



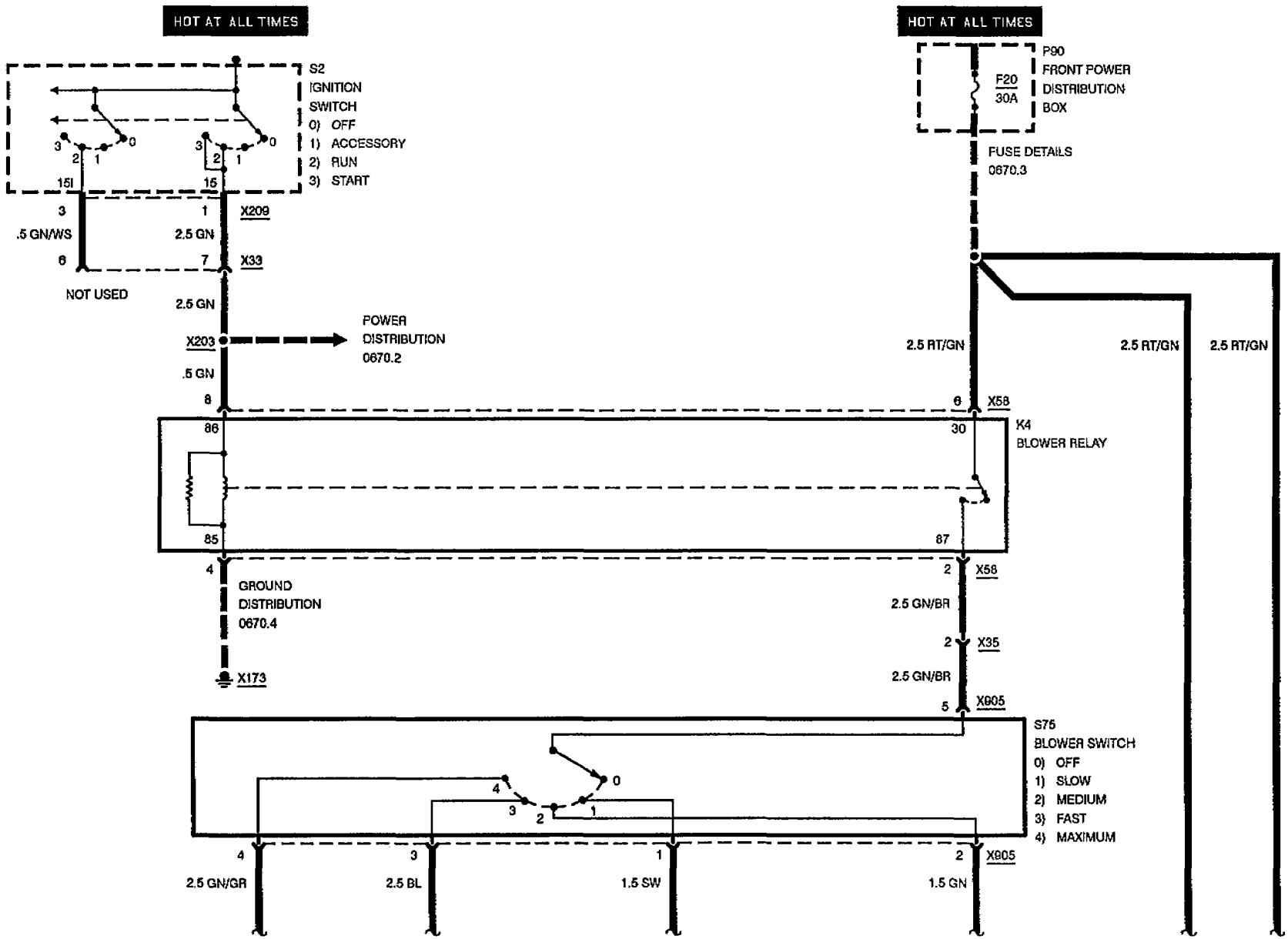

.75 VI/WS
X1235
.5 VI/WS
.5 VI/WS
3 X381
E35
DRIVER'S
MAKEUP MIRROR
LIGHT
1 X381
3 X382
E36
PASSENGER'S
MAKEUP MIRROR
LIGHT
1 X382
.5 BR
.5 BR
1 X401
S77
DRIVER'S
MAKEUP MIRROR
SWITCH
1) OFF
2) ON
1 X1245
1 X402
S78
PASSENGER'S
MAKEUP MIRROR
SWITCH
1) OFF
2) ON
1 X1246
.5 BR
.5 BR
GROUND
DISTRIBUTION
0670.4
X495
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
14 X13254
28 X13253
.5 BR/WS
.75 VI/SW
X18799
.75 VI/SW
.75 VI/SW
1 X18798
E102
RIGHT TRUNK
COMPARTMENT
LIGHT
1 X18797
.75 BR/WS
1 X712
E101
LEFT TRUNK
COMPARTMENT
LIGHT
1 X18080
.75 BR/WS
X485
.75 BR/WS
1 X711
S61
TRUNK LID
SWITCH
1) TRUNK CLOSED
2) TRUNK OPEN
.75 VI/WS
X18796
.75 VI/WS
1 X11205
E100y
HARD TOP
CONNECTOR 2
1 X11208
.5 RT/WS
X11207
.5 RT/WS
.5 RT/WS
2 X356
E39
LEFT REAR
INTERIOR LIGHT
1 X356
2 X355
E40
RIGHT REAR
INTERIOR LIGHT
1 X355
.5 BR
.5 BR
GROUND
DISTRIBUTION
0670.4
X13006

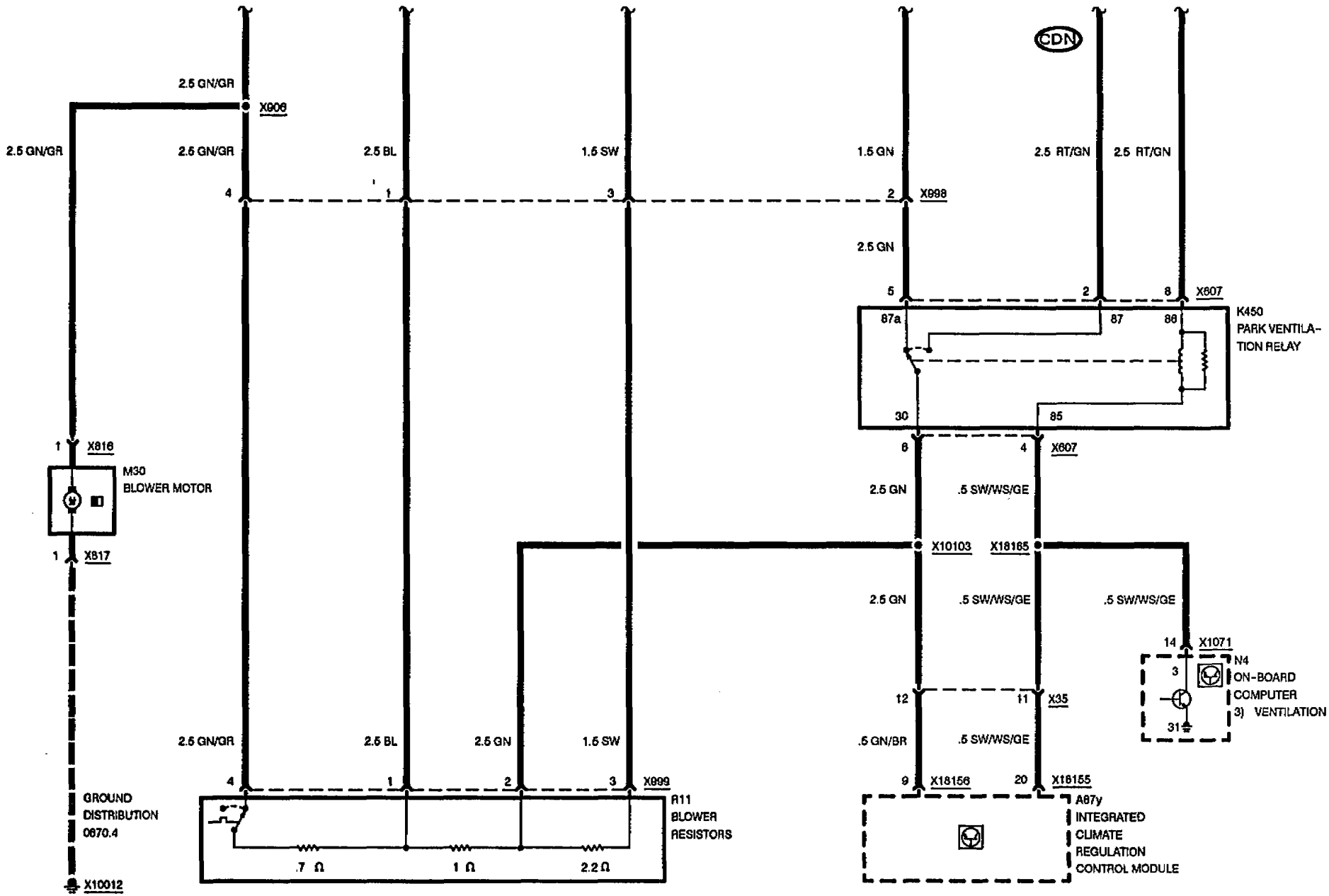
CRASH CONTROL MODULE



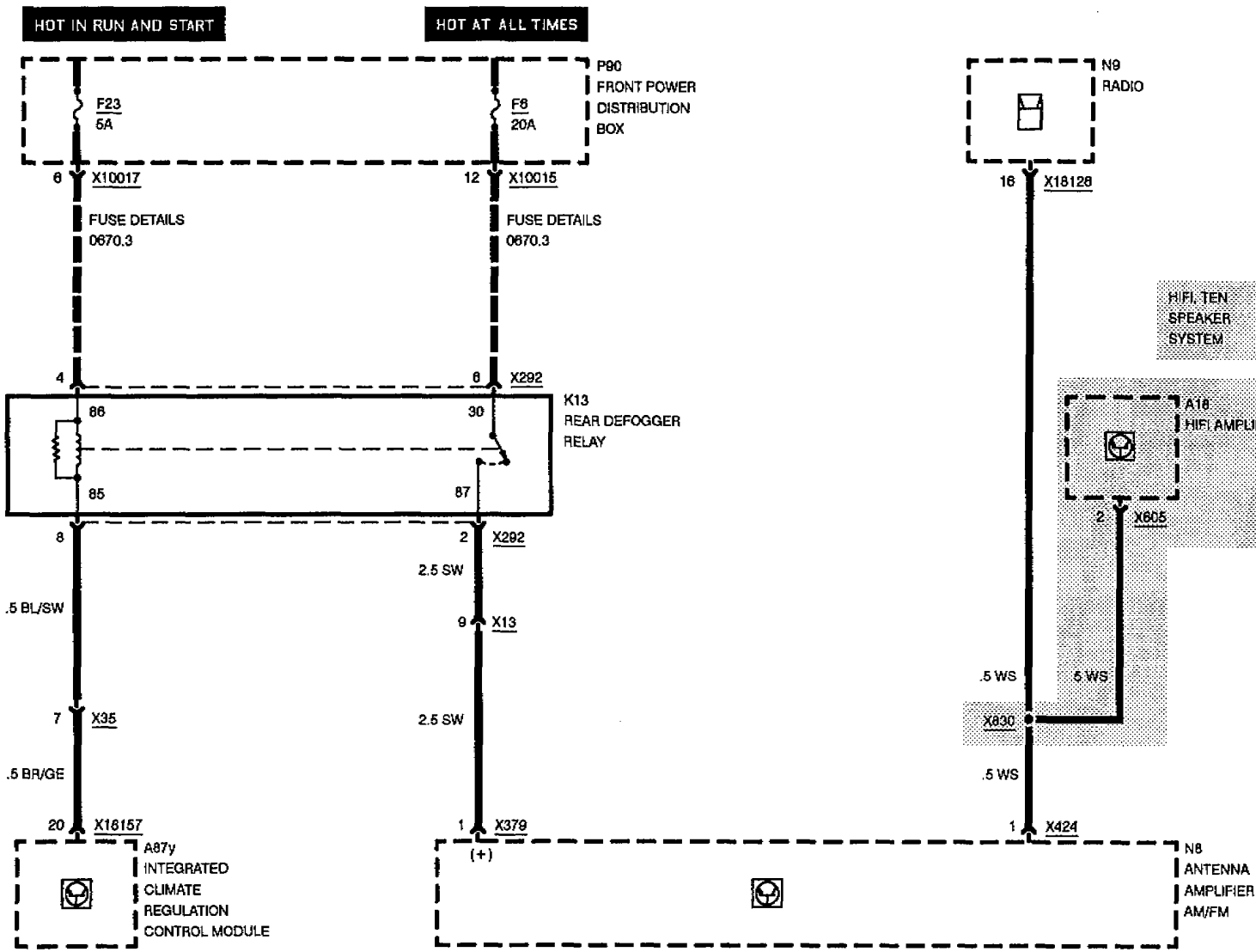

N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
8
X13025
.5 BL/GN
.5 BL/GN/GE
1.5 RT/SW/GE
.5 WS/BL/GE
NOT USED
14
X14
.5 BL/GN/GE
3
4
2
6
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
TURN/HAZARD
LIGHTS
6313.0
.5 BR/SW/GE
LIGHT SWITCH
DETAILS
6300.0
1
X10182
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2
X516
7
X13253
S16
HAZARD SWITCH
1) OFF
2) ON
.5 BR/SW
2
X388
S27
INERTIA
SWITCH
1) NORMAL STATE
2) SUFFICIENT
IMPACT
3
X516
1
X388
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X10010
X10012
X495

PARK VENTILATION WITH IHKR



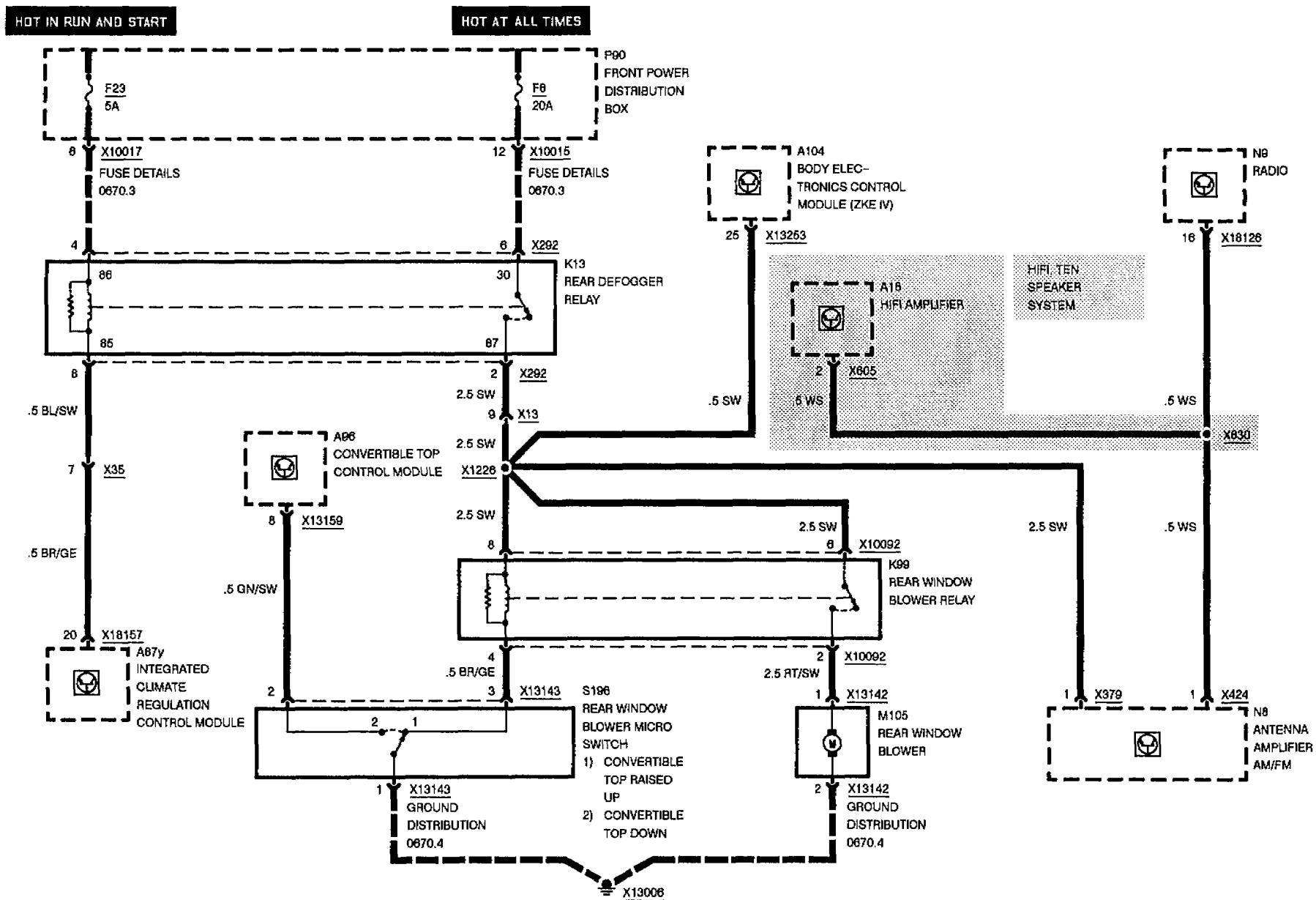

CDN
2.5 GN/GR
X906
2.5 GN/GR
2.5 GN/GR
2.5 BL
1.5 SW
1.5 GN
2.5 RT/GN
2.5 RT/GN
4
1
3
2
X998
2.5 GN
5
2
8
X607
87a
87
86
K450
PARK VENTILA-
TION RELAY
30
85
1
X816
M30
BLOWER MOTOR
1
X817
6
4
X607
2.5 GN
.5 SW/WS/GE
X10103
X18165
2.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
14
X1071
N4
ON-BOARD
COMPUTER
3) VENTILATION
3
31
12
11
X35
2.5 GN/GR
2.5 BL
2.5 GN
1.5 SW
.5 GN/BR
.5 SW/WS/GE
4
1
2
3
X999
9
X18156
20
X18155
R11
BLOWER
RESISTORS
.7 Ω
1 Ω
2.2 Ω
A67y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
GROUND
DISTRIBUTION
0670.4
X10012

REAR WINDOW DEFOGGER



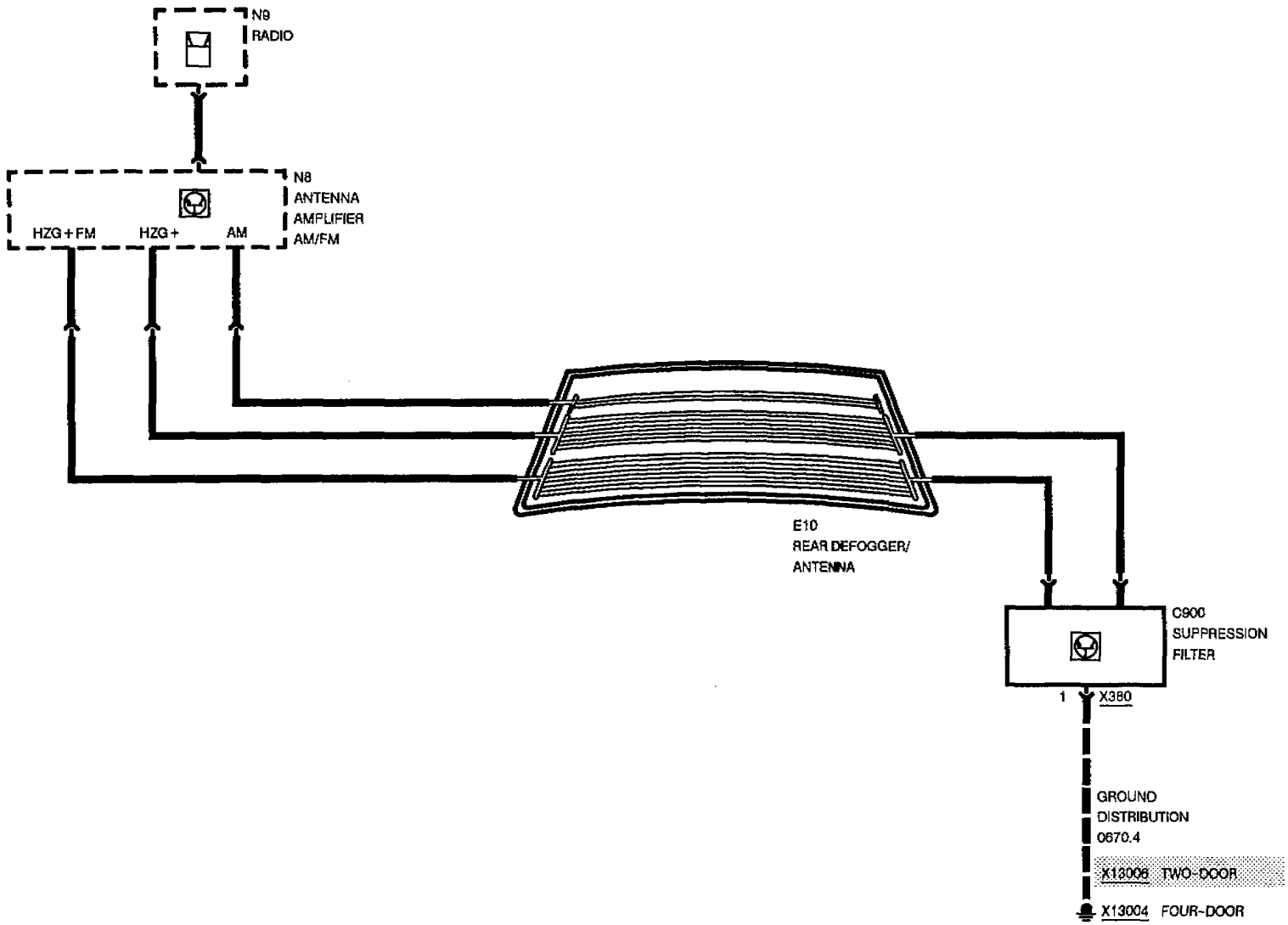
REAR WINDOW DEFOGGER

CONVERTIBLE



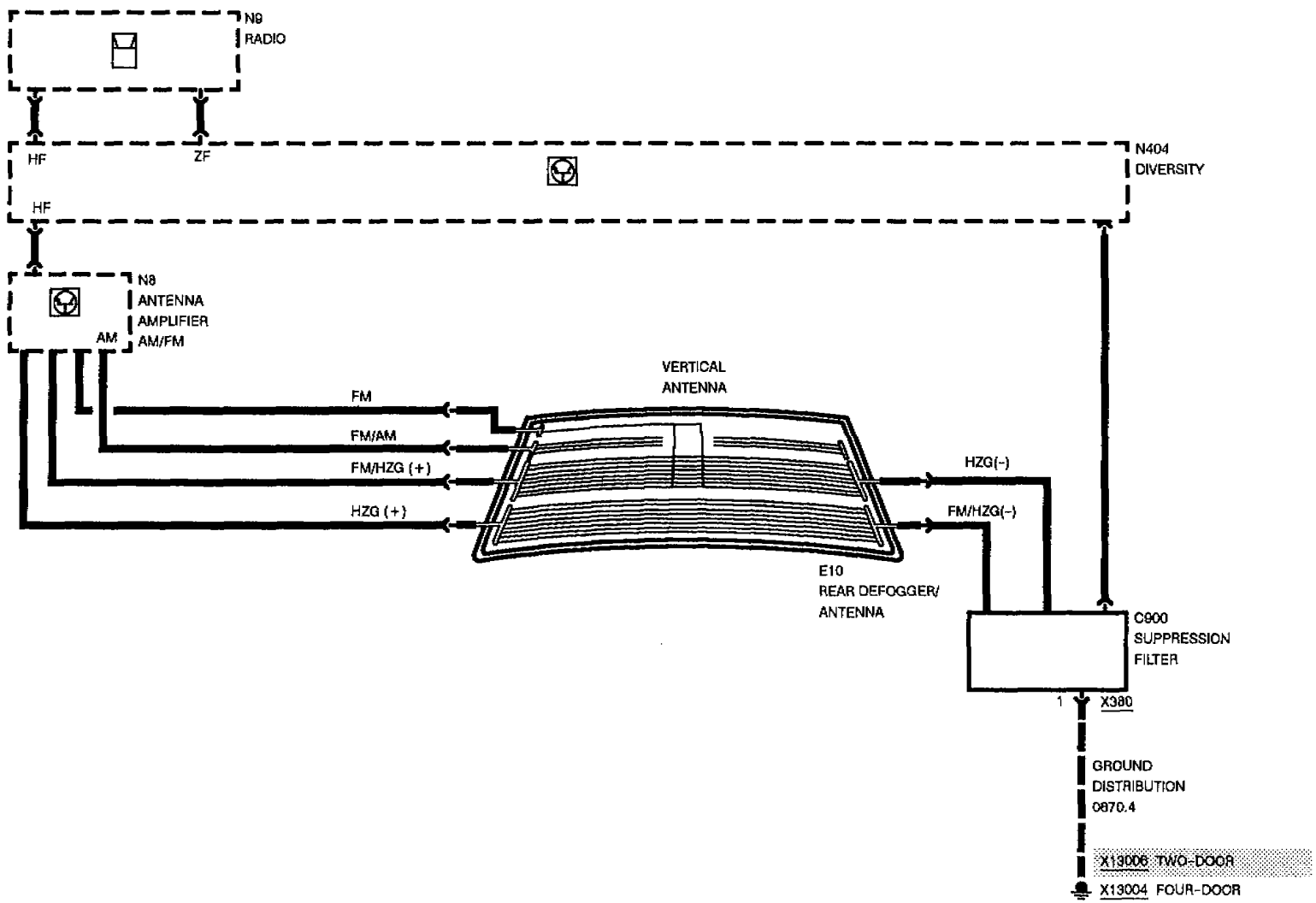
REAR WINDOW DEFOGGER

REAR WINDOW ANTENNA



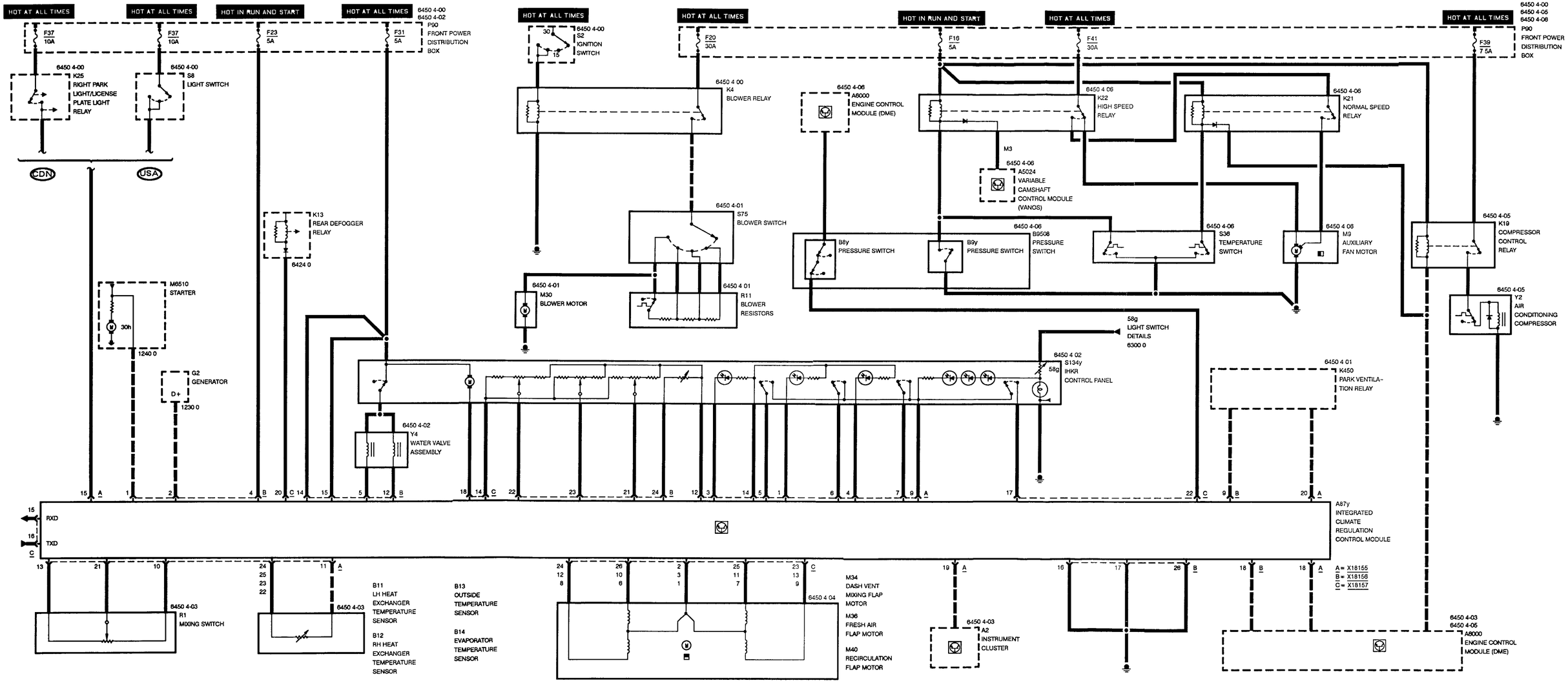
REAR WINDOW DEFOGGER

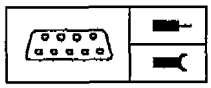
3-ANTENNA-DIVERSITY



12/94 — 6450 4 — 1994

12/94 — 6450 4 — 1994





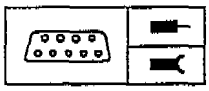
Pin Assignments

A = X18155	26 Pins, white
B = X18156	26 Pins, black
C = X18157	26 Pins, blue

X18155

Pin	Type	Description/Function	Connection
1	A	Function light, air recirculation	IHKR control panel
2		Not used	
3	A	Function light, rear window defogger	IHKR control panel
4	A	Function light, air conditioning	IHKR control panel
5	E	Rear window defogger switch	IHKR control panel
6	E	Air circulation switch	IHKR control panel
7	E	Air conditioning switch	IHKR control panel
8		Not used	
9	A	Ground for rear window defogger switch, air recirculation switch, air conditioning switch, electric flaps switch, and function lights	IHKR control panel
10	A	Ground for mixing actuator	Mixing actuator
11	A	Ground for temperature sensors	Various temperature sensors
12	A	Ground for rotary switches and interior temperature sensor	IHKR control panel
13	A	Voltage supply for mixing actuator	Mixing actuator
14	E	Voltage supply for function lights	IHKR control panel
15 (USA)	E	Terminal 58K	Light switch
(CDN)	E	Terminal 58K	Right park light/license plate light relay, terminal 87
16		Not used	
17		Not used	
18	E	Crankshaft position/RPM signal TD	Engine control module (DME)
19	A	Vehicle speed	Instrument cluster
20	E	Independent ventilation	Park heating/ventilation relay
21	E	Nominal mixing value	Mixing actuator
22	A/E	Evaporator temperature	Evaporator temperature sensor

E = Input, A = Output, M = Ground



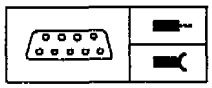
Pin Assignments

Pin	Type	Description/Function	Connection
23	A/E	Outside temperature	Outside temperature sensor
24	A/E	Heater temperature, left	Left heat exchanger temperature sensor
25	A/E	Heater temperature, right	Right heat exchanger temperature sensor
26		Not used	

X18156

Pin	Type	Description/Function	Connection
1	E	Terminal 30h	Starter, terminal 30h
2	E	Terminal 61	Generator
3		Not used	
4	E	Voltage supply, terminal 15	Front power distribution box, fuse 23
5	A	Left water valve activation	Water valve assembly
6		Not used	
7		Not used	
8		Not used	
9		Terminal 15 (independent ventilation only)	Park heating/ventilation relay
10		Not used	
11		Not used	
12	A	Right water valve activation	Water valve assembly
13		Not used	
14	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
15	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
16	M	Ground for load circuit	Ground
17	M	Ground for load circuit	Ground
18	A	Engine control module (DME) activation (anti-stall)	Engine control module (DME)
19		Not used	
20		Not used	
21	E	Nominal temperature valve, right	IHKR control panel
22	E	Nominal temperature valve, left	IHKR control panel
23	E	Nominal air flow valve	IHKR control panel

E = Input, A = Output, M = Ground



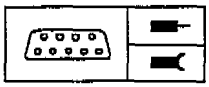
Pin Assignments

Pin	Type	Description/Function	Connection
24	A/E	Interior temperature sensor	IHKR control panel
25		Not used	
26	M	Ground for electronics	Ground

X18157

Pin	Type	Description/Function	Connection
1	A	Voltage supply for recirculation flap motor	Recirculation flap motor
2	A	Voltage supply for dash vent mixing flap motor	Dash vent mixing flap motor
3	A	Voltage supply for fresh air flap motor	Fresh air flap motor
4		Not used	
5		Not used	
6	A	Recirculation flap motor activation	Recirculation flap motor
7	A	Recirculation flap motor activation	Recirculation flap motor
8	A	Recirculation flap motor activation	Recirculation flap motor
9	A	Recirculation flap motor activation	Recirculation flap motor
10	A	Fresh air flap motor activation	Fresh air flap motor
11	A	Fresh air flap motor activation	Fresh air flap motor
12	A	Fresh air flap motor activation	Fresh air flap motor
13	A	Fresh air flap motor activation	Fresh air flap motor
14	A	Voltage supply for rotary switches	IHKR control panel
15	A	RxD diagnostic data line	Data link connector
16	E/A	TxD diagnostic data line	Data link connector
17	E	Ventilation flap switch	IHKR control panel
18	A	Interior sensor blower activation	IHKR control panel
19		Not used	
20	A	Rear window defogger activation	Rear defogger relay, terminal 86b
21		Not used	
22	A	Activate A/C compressor	Pressure switch
23	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
24	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground



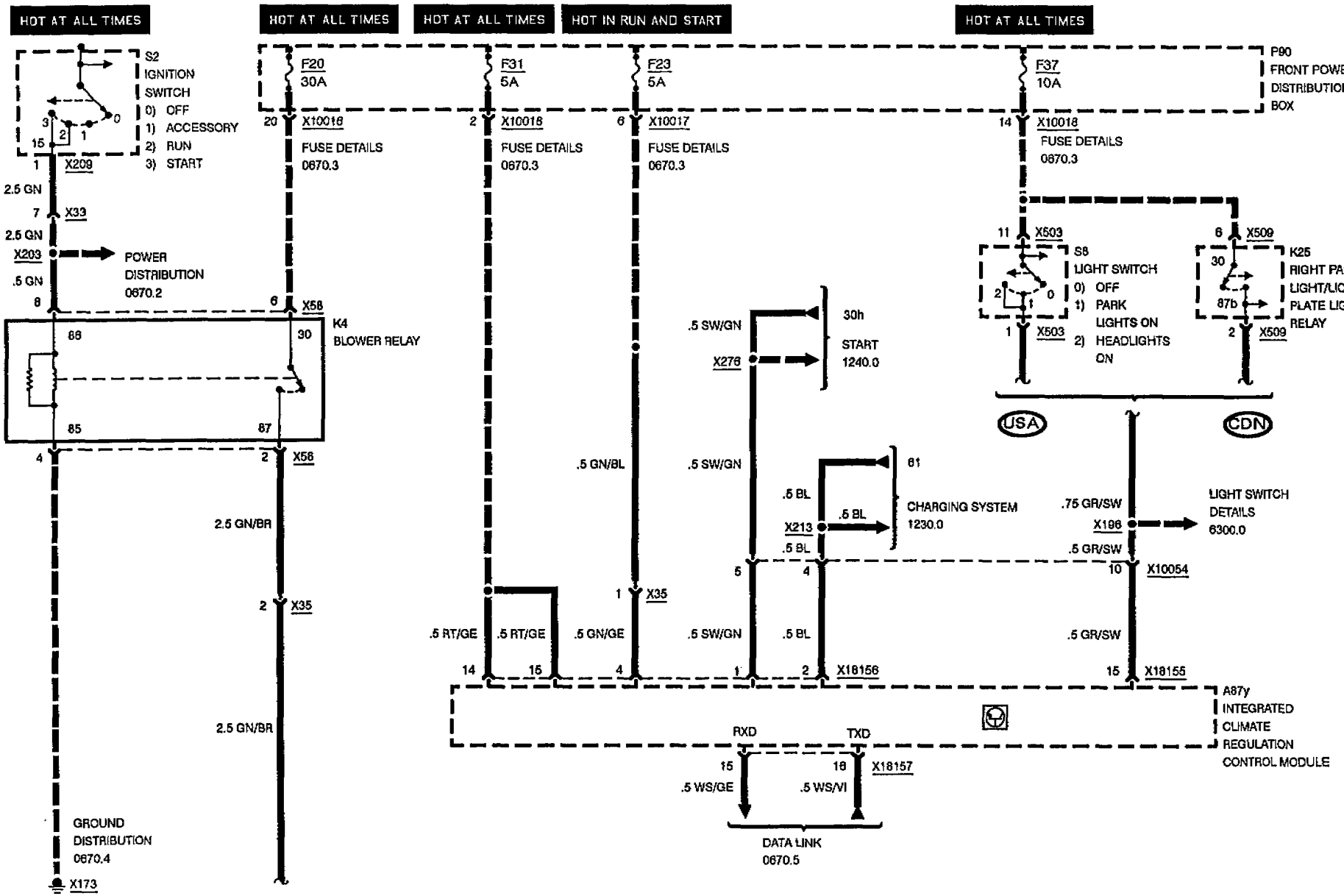
Pin Assignments

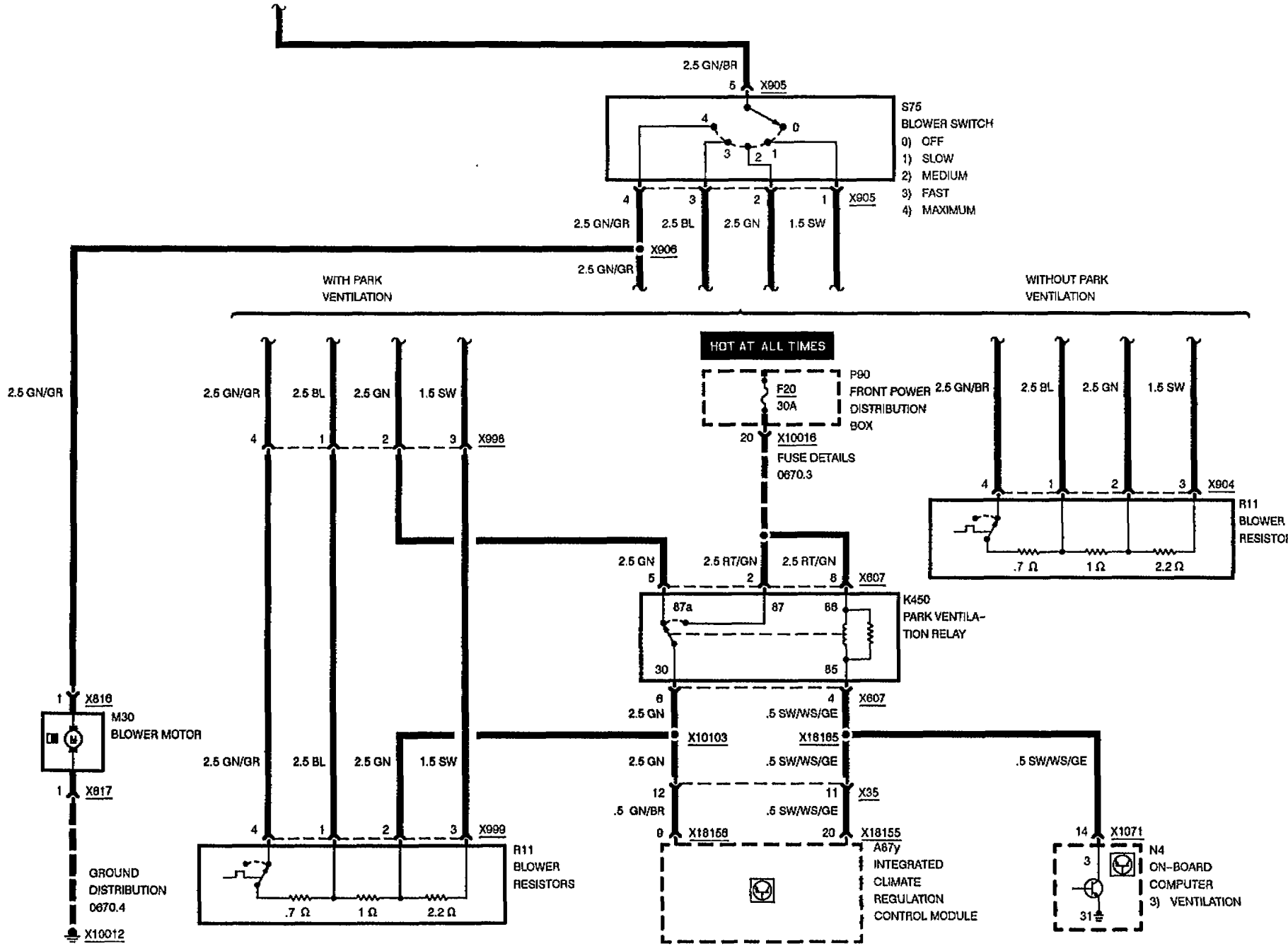
Pin	Type	Description/Function	Connection
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground

INTEGRATED CLIMATE REGULATION (IHKR E36)

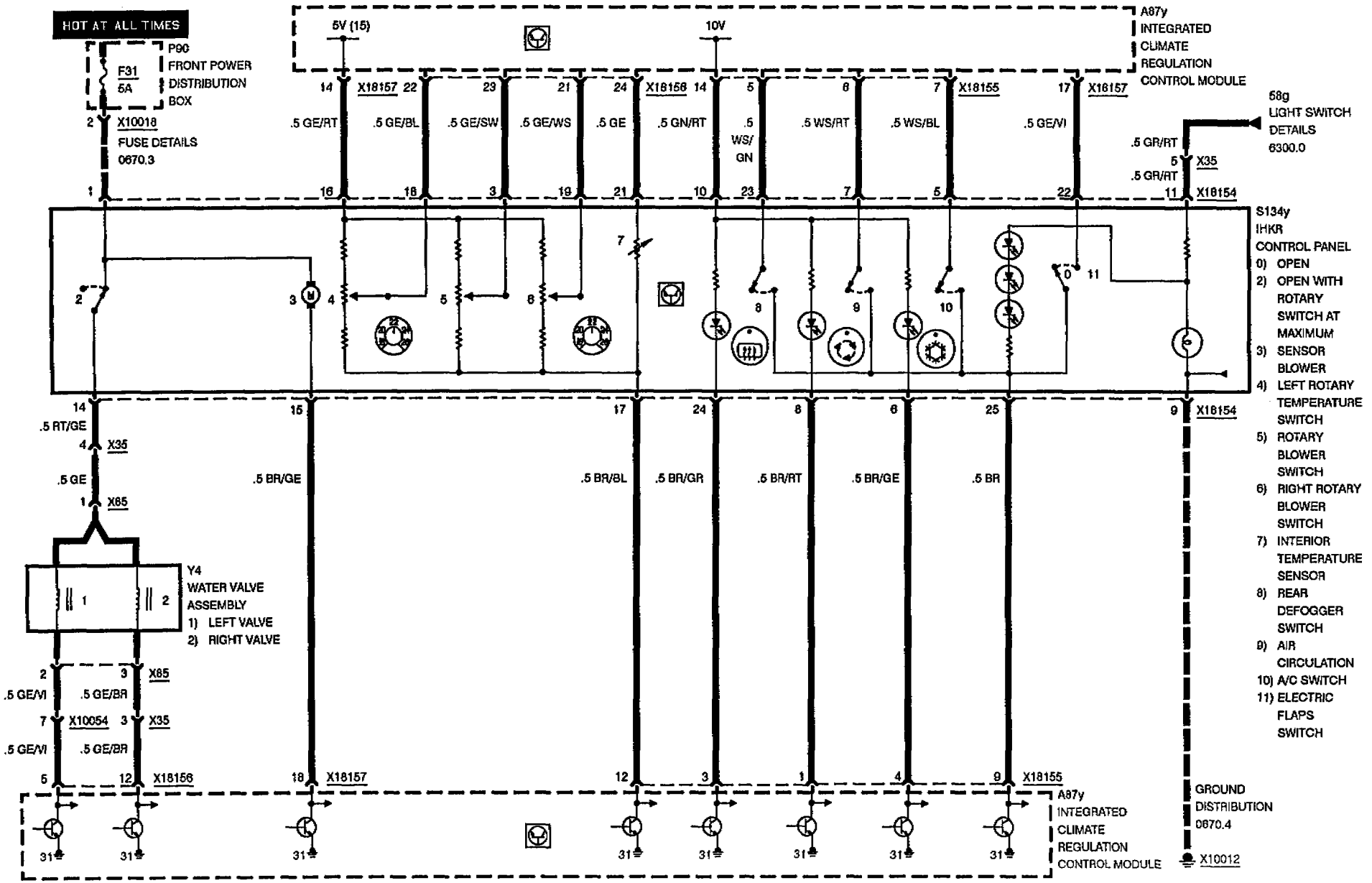
POWER, BLOWER CONTROLS




2.5 GN/BR
5 X905
S75
BLOWER SWITCH
0) OFF
1) SLOW
2) MEDIUM
3) FAST
4) MAXIMUM
4 3 2 1 X905
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
X906
2.5 GN/GR
WITH PARK VENTILATION
WITHOUT PARK VENTILATION
HOT AT ALL TIMES
P90
F20 30A
FRONT POWER DISTRIBUTION BOX
20 X10016
FUSE DETAILS 0670.3
2.5 GN/GR
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
4 1 2 3 X998
2.5 GN/BR 2.5 BL 2.5 GN 1.5 SW
4 1 2 3 X904
R11
BLOWER RESISTORS
.7 Ω 1 Ω 2.2 Ω
2.5 GN 2.5 RT/GN 2.5 RT/GN
5 2 8 X607
87a 87 86
30 85
K450
PARK VENTILATION RELAY
6 2.5 GN
4 .5 SW/WS/GE
X607
1 X816
M30
BLOWER MOTOR
1 X817
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
X10103
X18165
2.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
12 .5 GN/BR
11 .5 SW/WS/GE
X35
4 1 2 3 X999
9 X18156
20 X18155
A67y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
14 X1071
3
31
N4
ON-BOARD COMPUTER
3) VENTILATION
GROUND DISTRIBUTION 0670.4
X10012
R11
BLOWER RESISTORS
.7 Ω 1 Ω 2.2 Ω

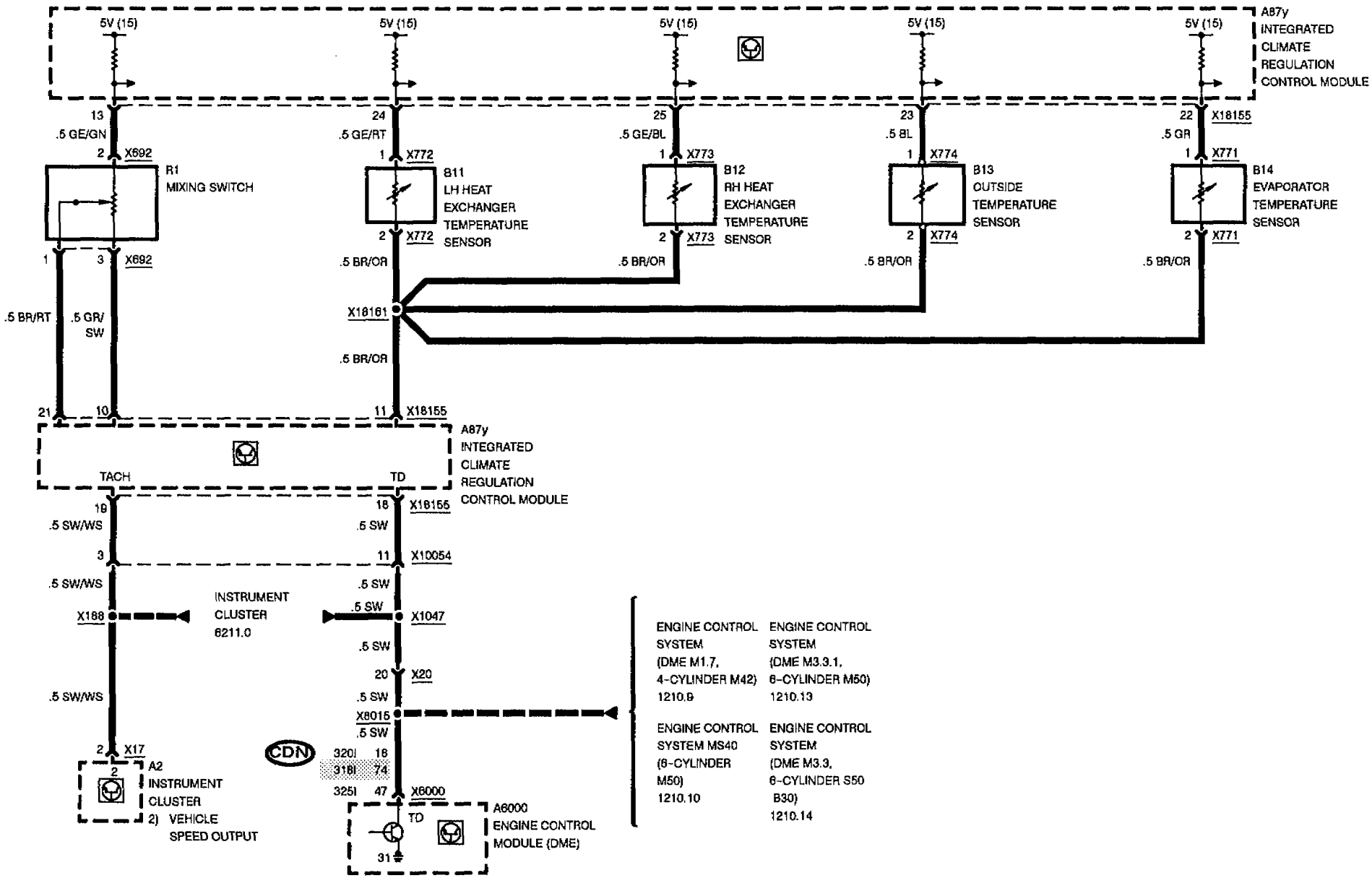
INTEGRATED CLIMATE REGULATION (IHKR E36)

CONTROL MODULE, WATER VALVES



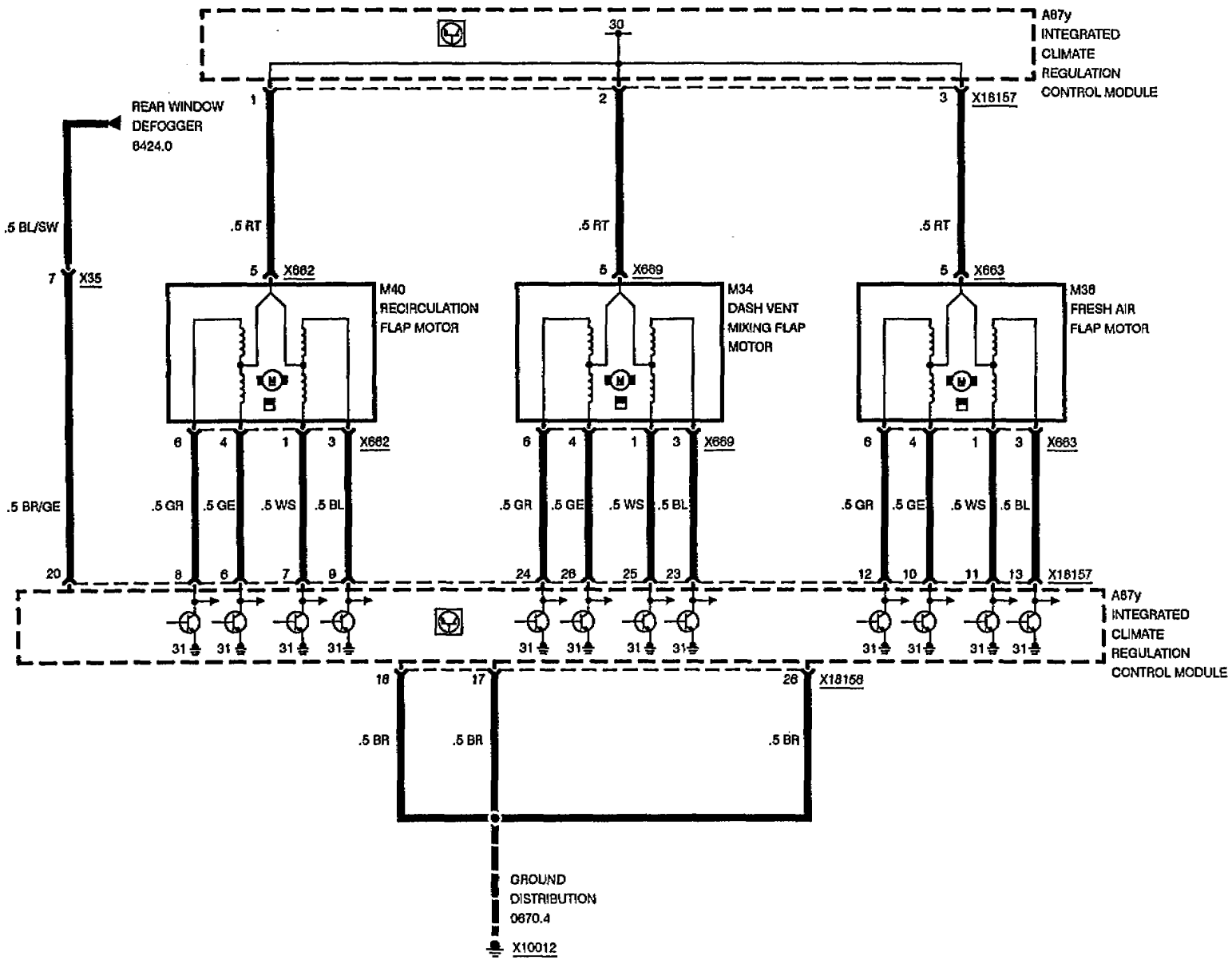
INTEGRATED CLIMATE REGULATION (IHKR E36)

TEMPERATURE CONTROL



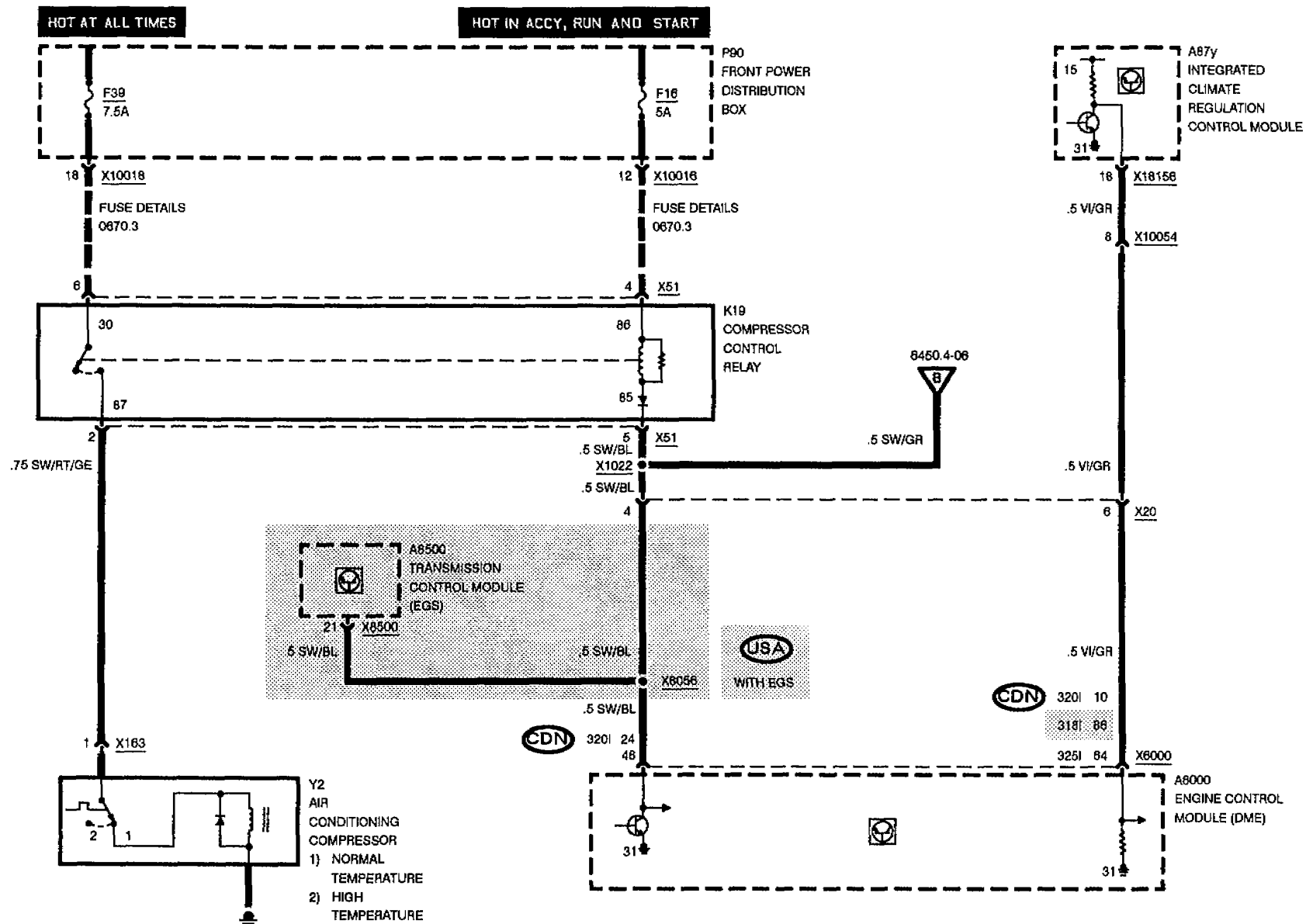
INTEGRATED CLIMATE REGULATION (IHKR E36)

AIR DELIVERY



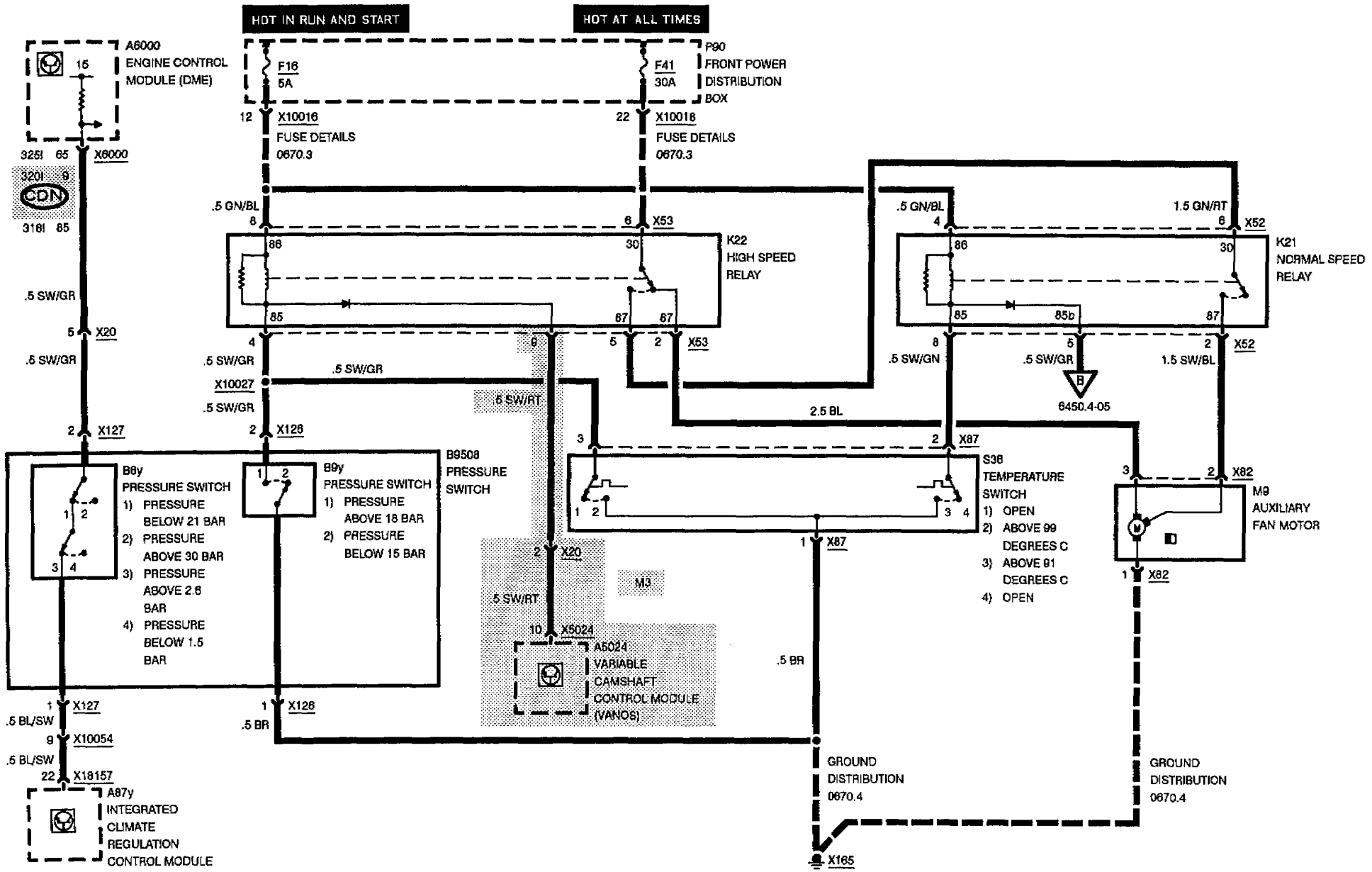
INTEGRATED CLIMATE REGULATION (IHKR E36)

COMPRESSOR CONTROLS



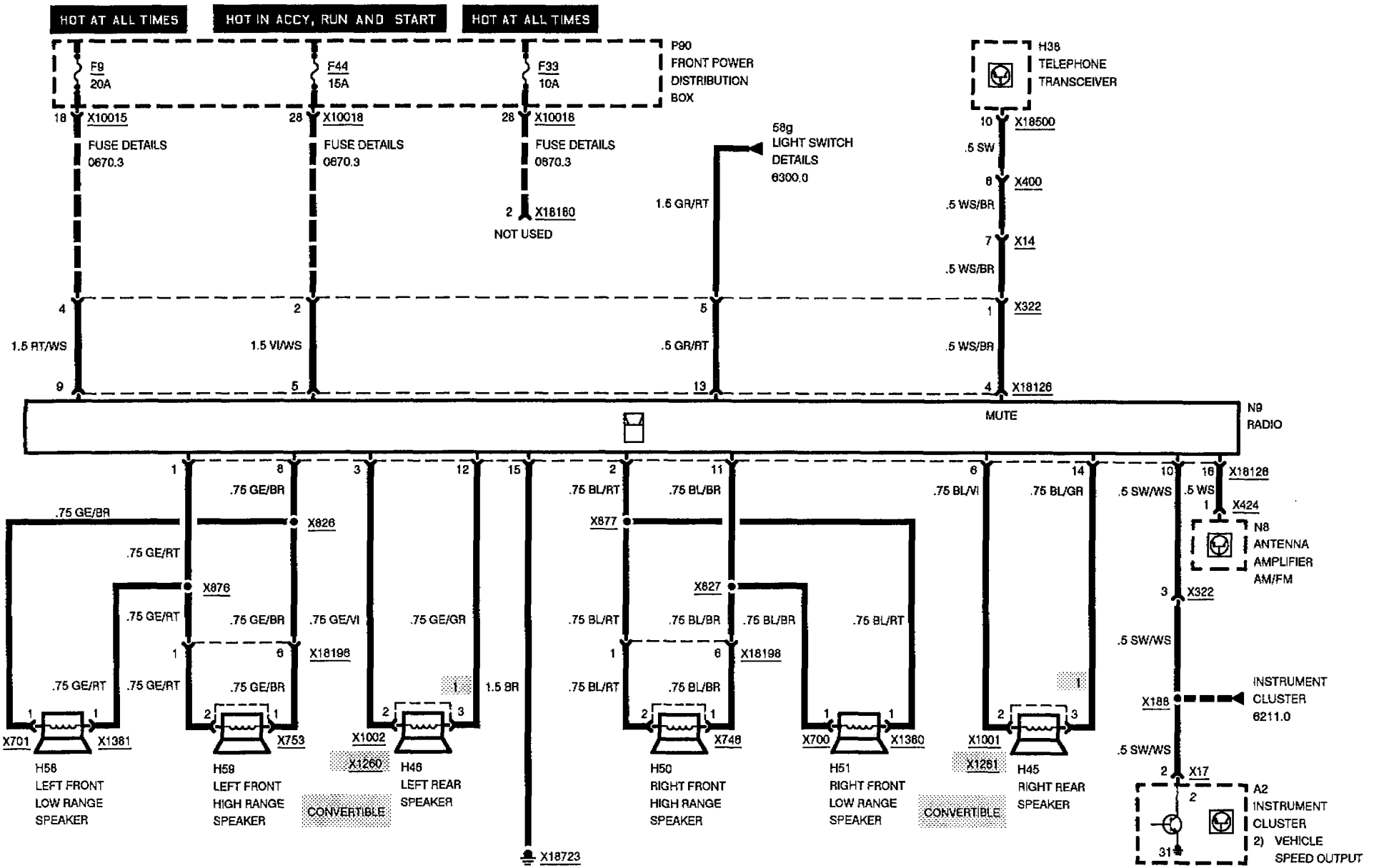
INTEGRATED CLIMATE REGULATION (IHKR E36)

AUXILIARY FAN



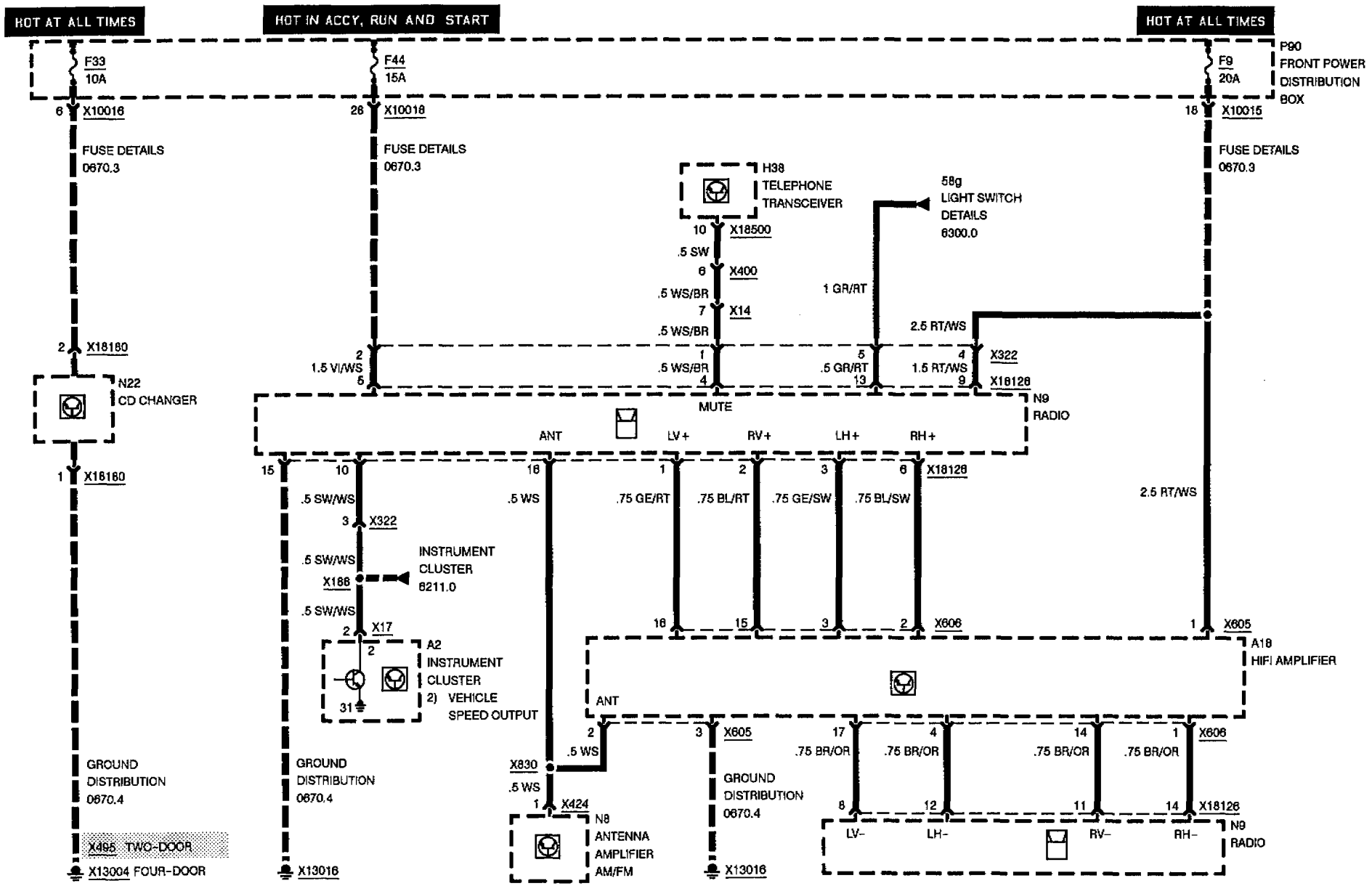
RADIO/STEREO

STEREO, 6-SPEAKER SYSTEM



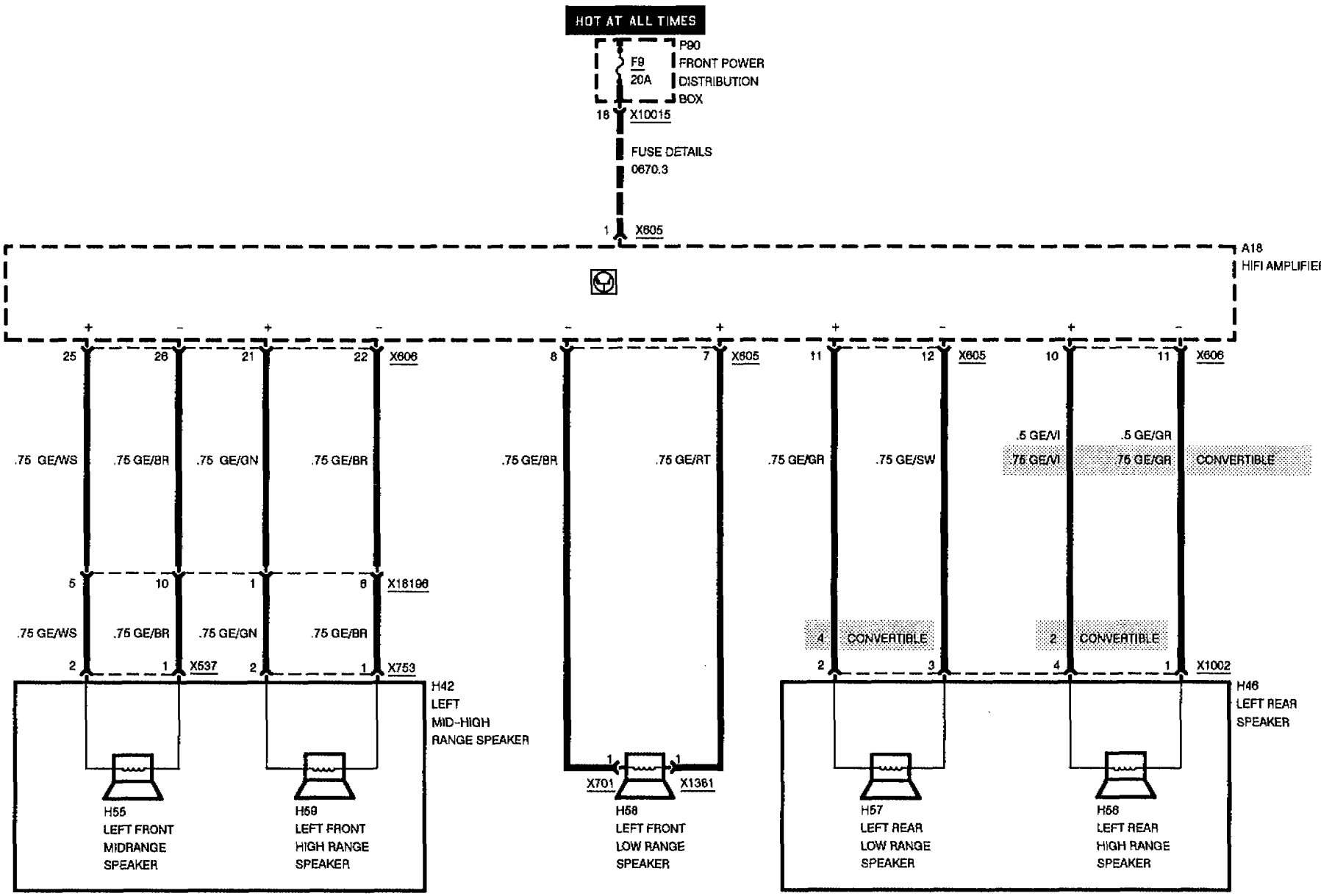
RADIO/HIFI

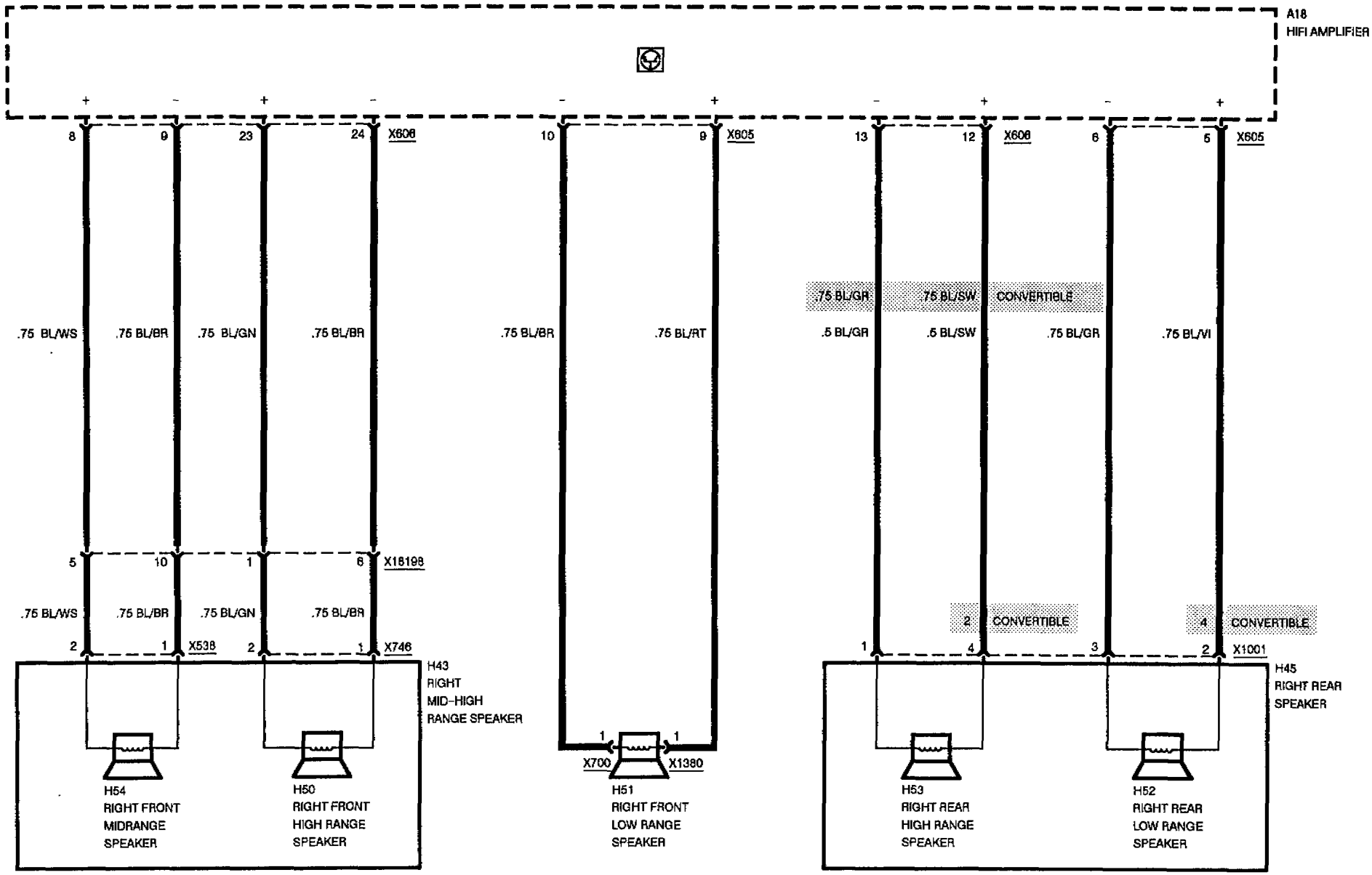
HIFI, 10-SPEAKER SYSTEM



RADIO/HIFI

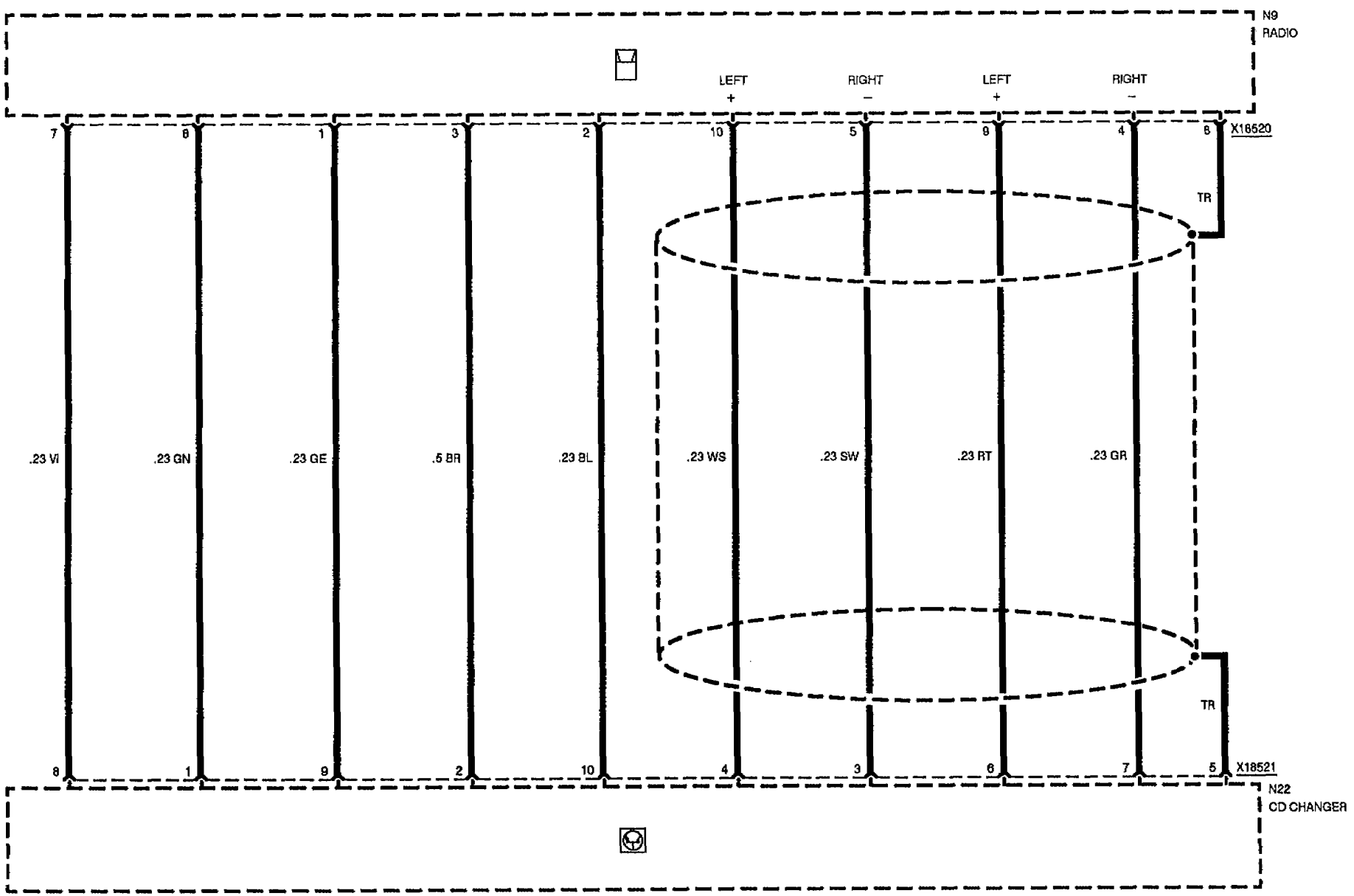
HIFI, 10-SPEAKER SYSTEM




A18
HIFI AMPLIFIER
+ - + - - + - + - +
8 9 23 24 X606
10 9 X605
13 12 X606 6 5 X605
.75 BL/WS
.75 BL/BR
.75 BL/GN
.75 BL/BR
.75 BL/BR
.75 BL/RT
.75 BL/GR
.75 BL/SW
CONVERTIBLE
.5 BL/GR
.5 BL/SW
.75 BL/GR
.75 BL/VI
5 10 1 6 X18198
2 CONVERTIBLE
4 CONVERTIBLE
.75 BL/WS
.75 BL/BR
.75 BL/GN
.75 BL/BR
2 1 X538 2 1 X746
1 4 3 2 X1001
H43
RIGHT
MID-HIGH
RANGE SPEAKER
1 1
X700 X1380
H45
RIGHT REAR
SPEAKER
H54
RIGHT FRONT
MIDRANGE
SPEAKER
H50
RIGHT FRONT
HIGH RANGE
SPEAKER
H51
RIGHT FRONT
LOW RANGE
SPEAKER
H53
RIGHT REAR
HIGH RANGE
SPEAKER
H52
RIGHT REAR
LOW RANGE
SPEAKER

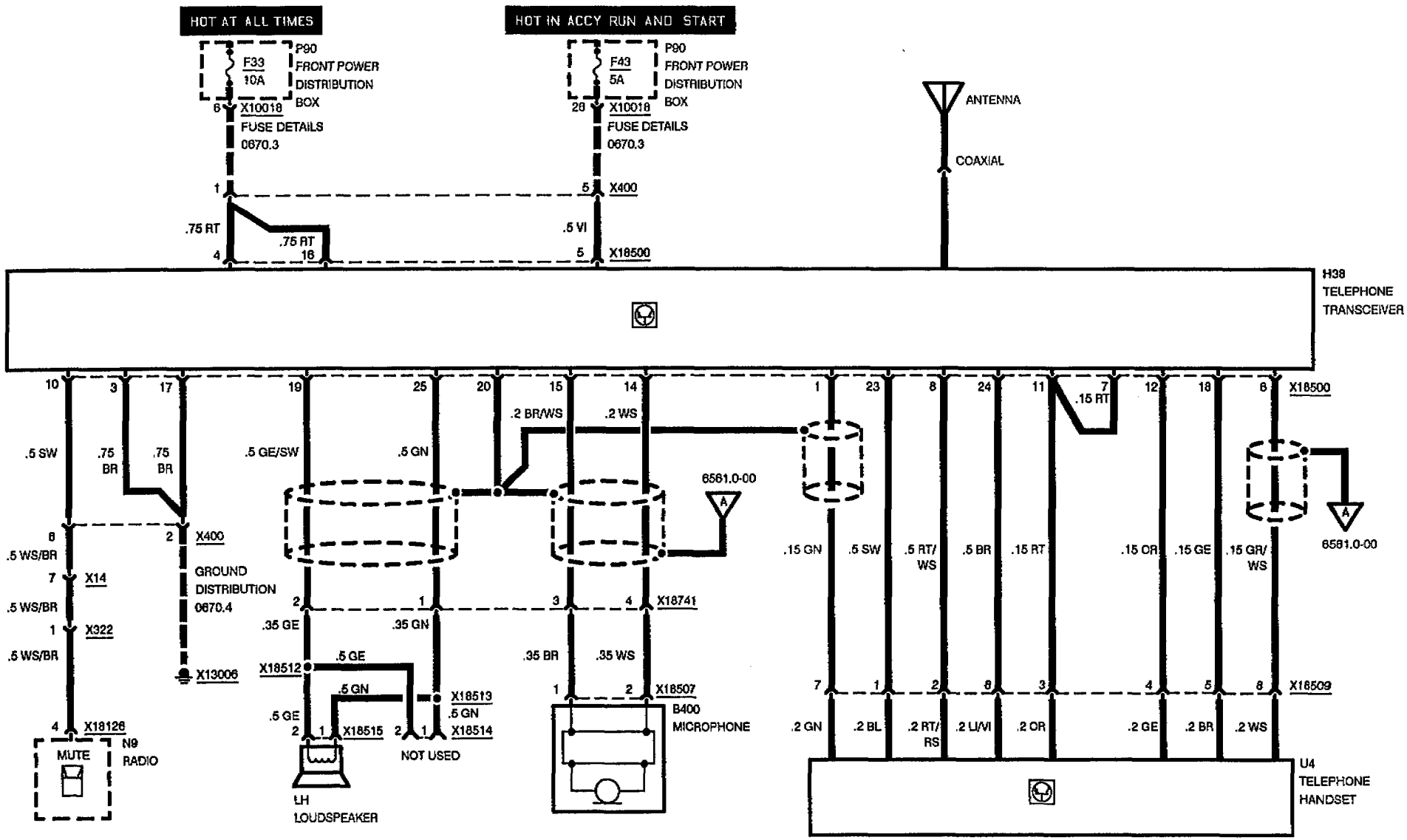
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

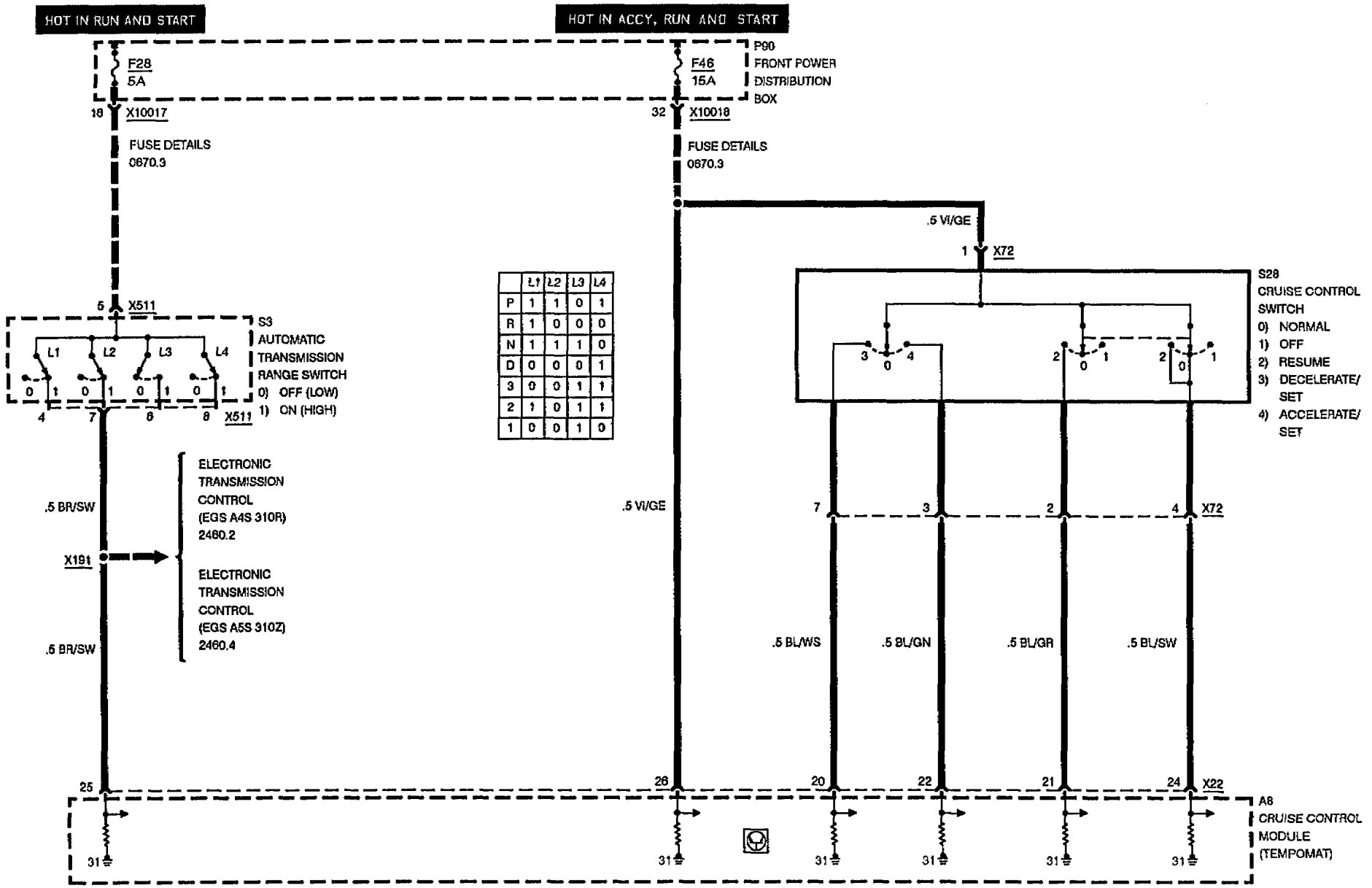


CELLULAR TELEPHONE (PROVISIONS)

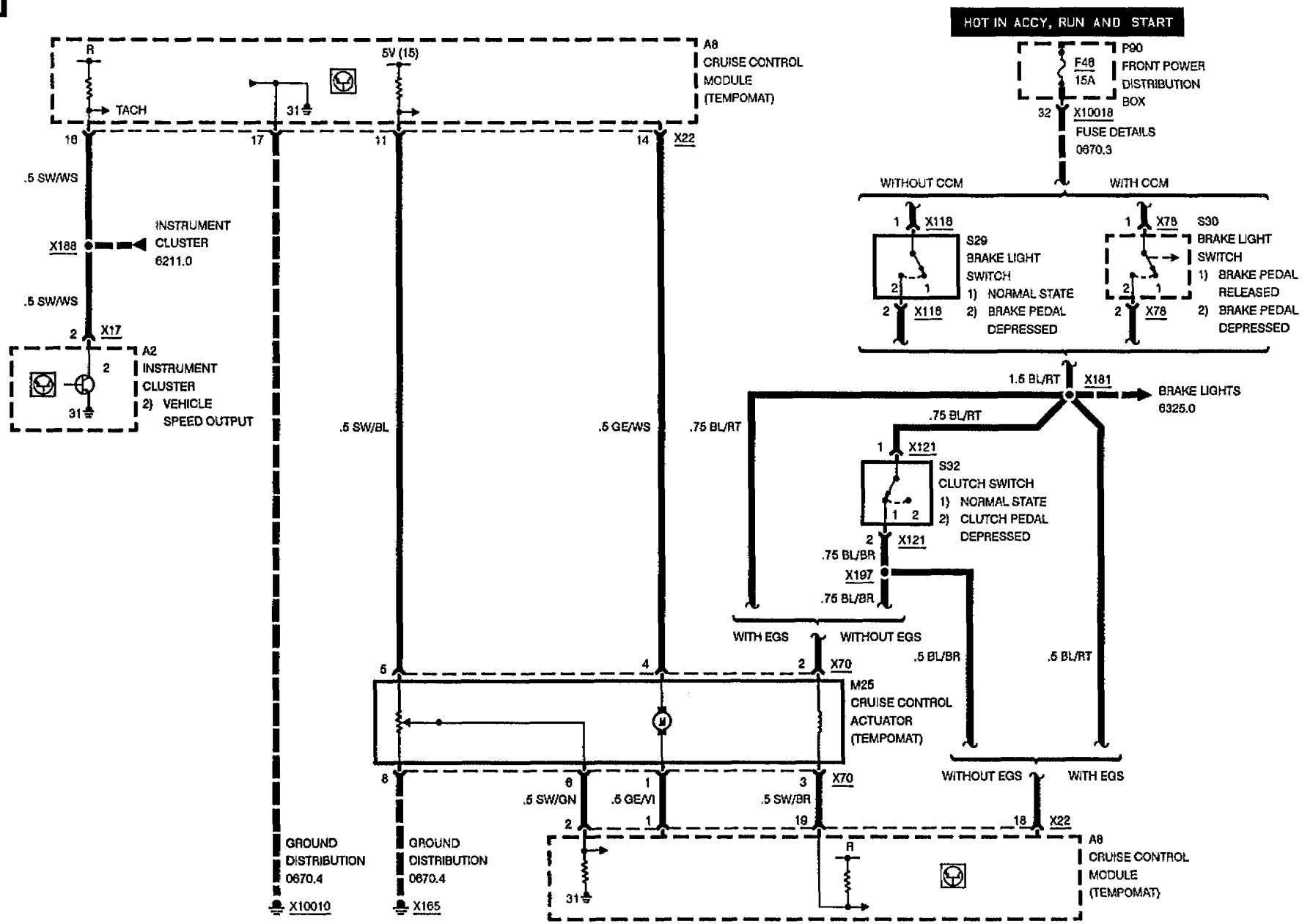
AMPS SYSTEM



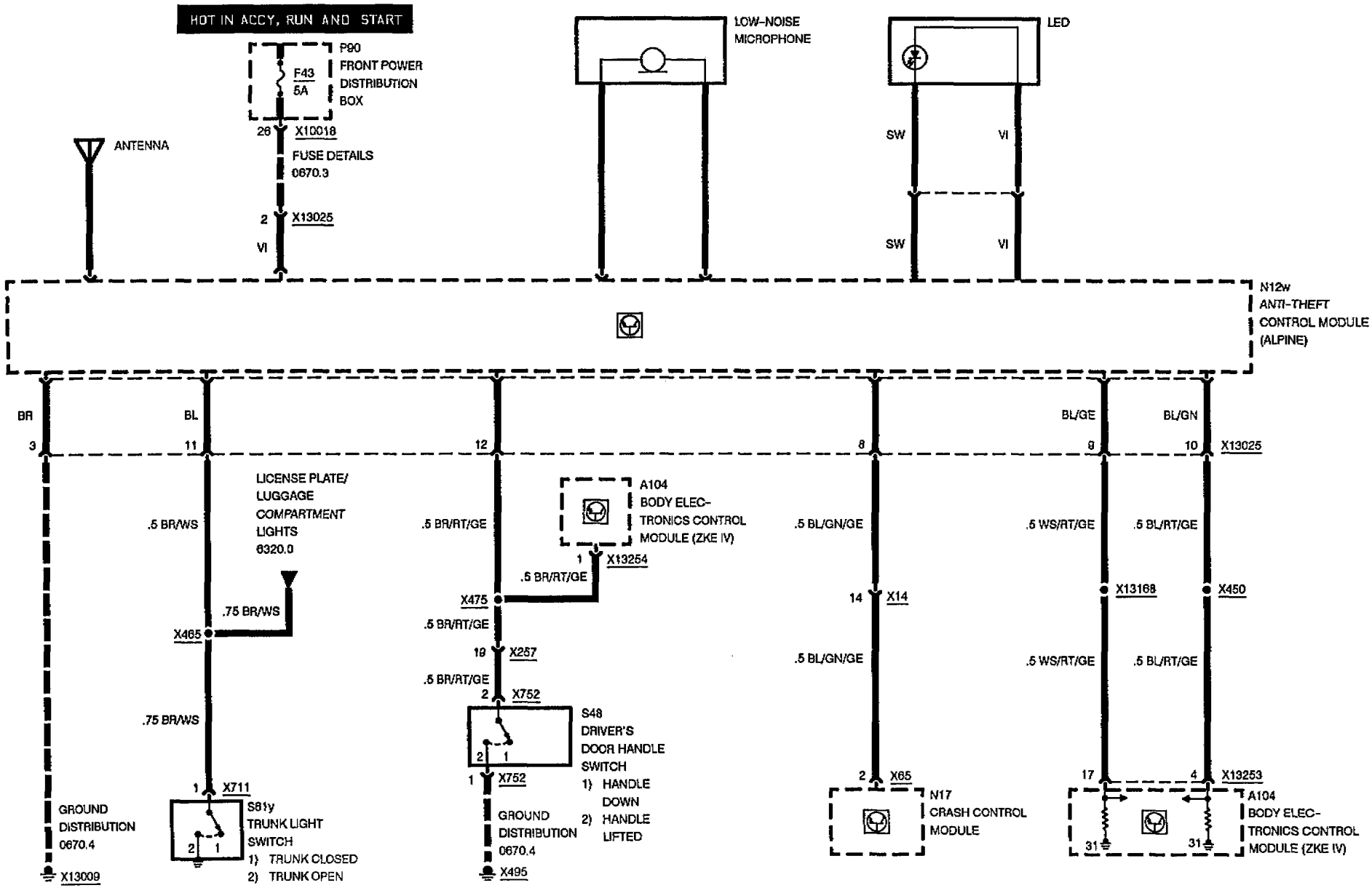
CRUISE CONTROL (TEMPOMAT)



CRUISE CONTROL (TEMPOMAT)



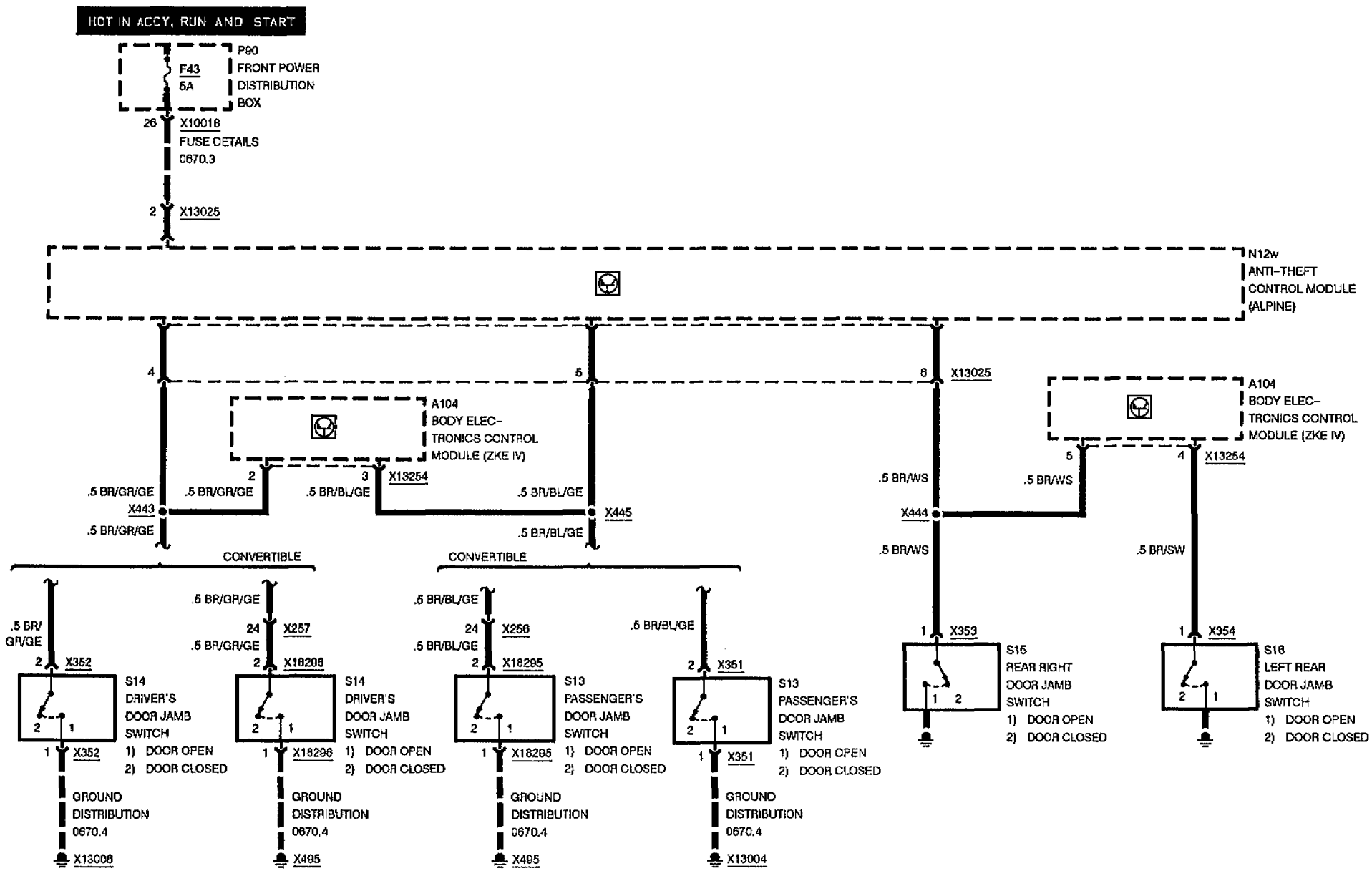
ANTI-THEFT SYSTEM (ALPINE)



ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

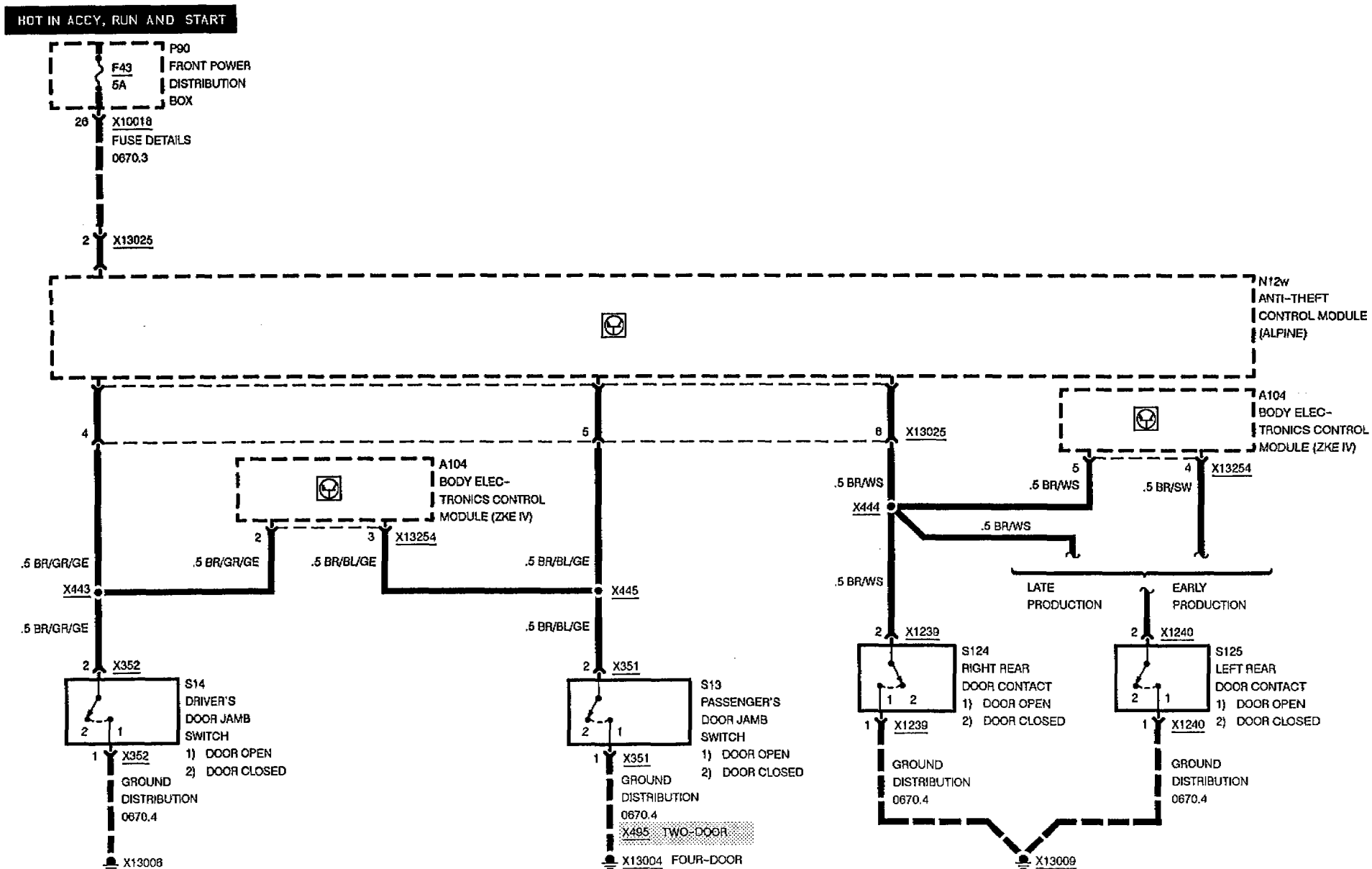
EARLY PRODUCTION



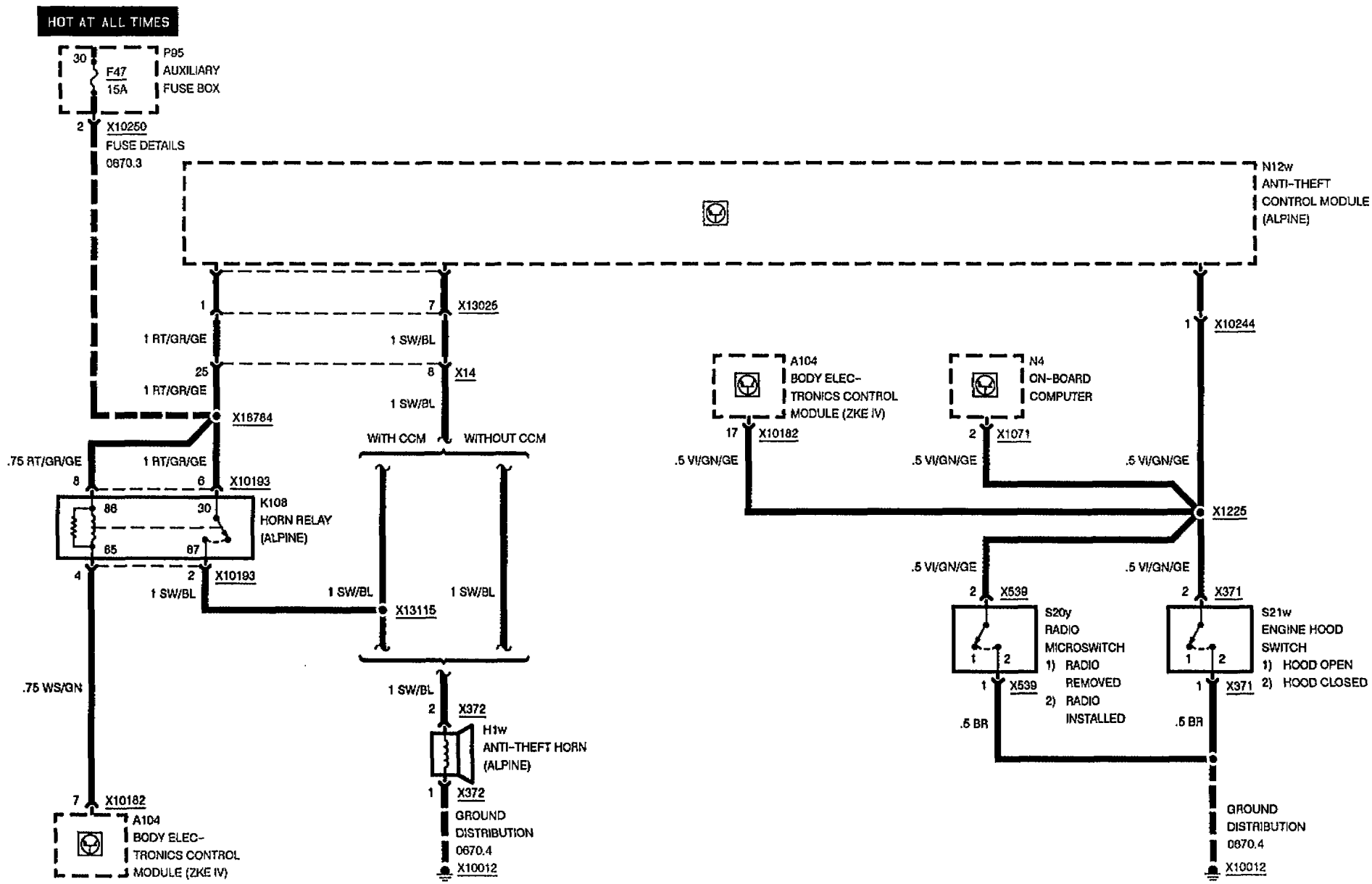
ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

LATE PRODUCTION

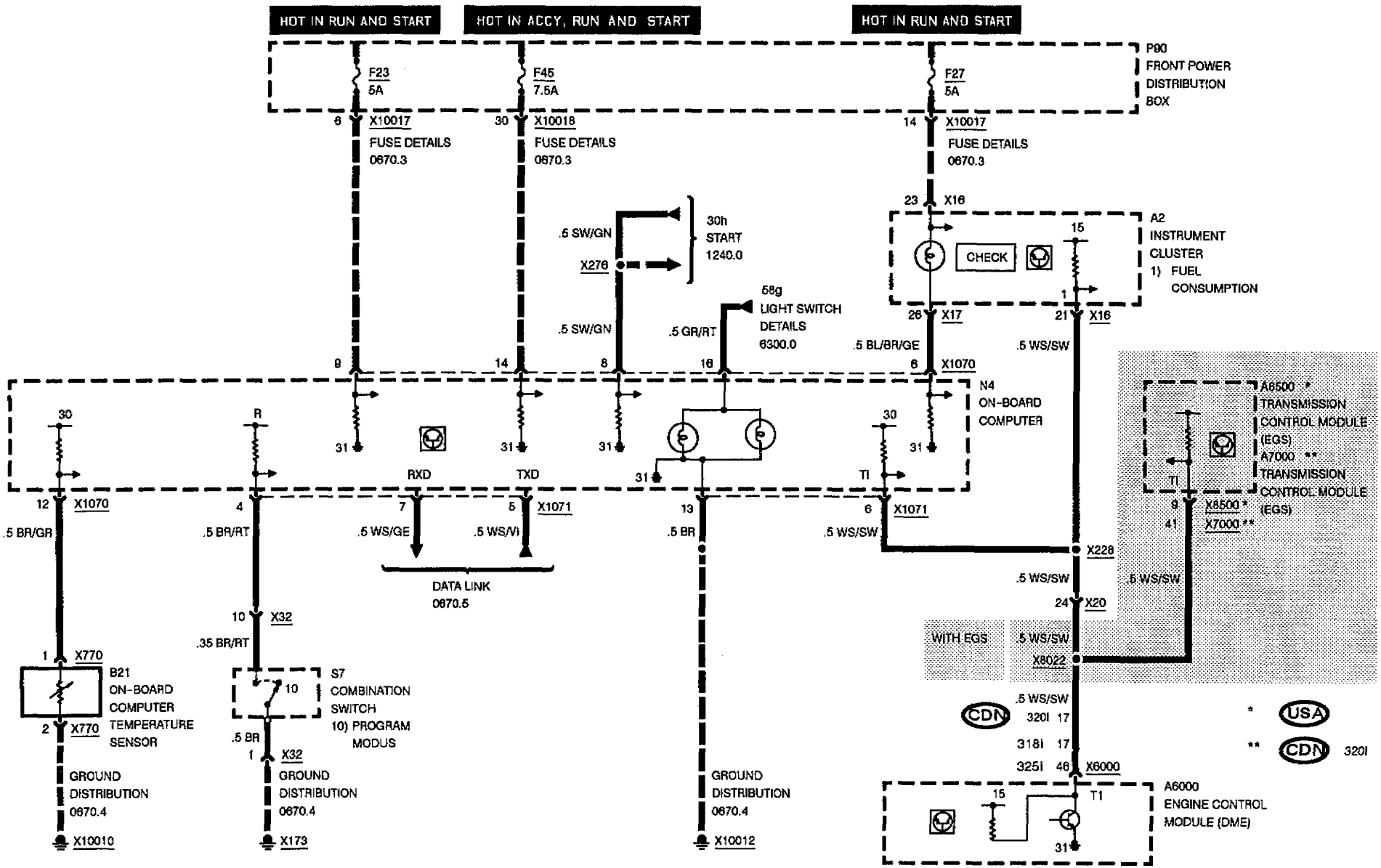


ANTI-THEFT SYSTEM (ALPINE)



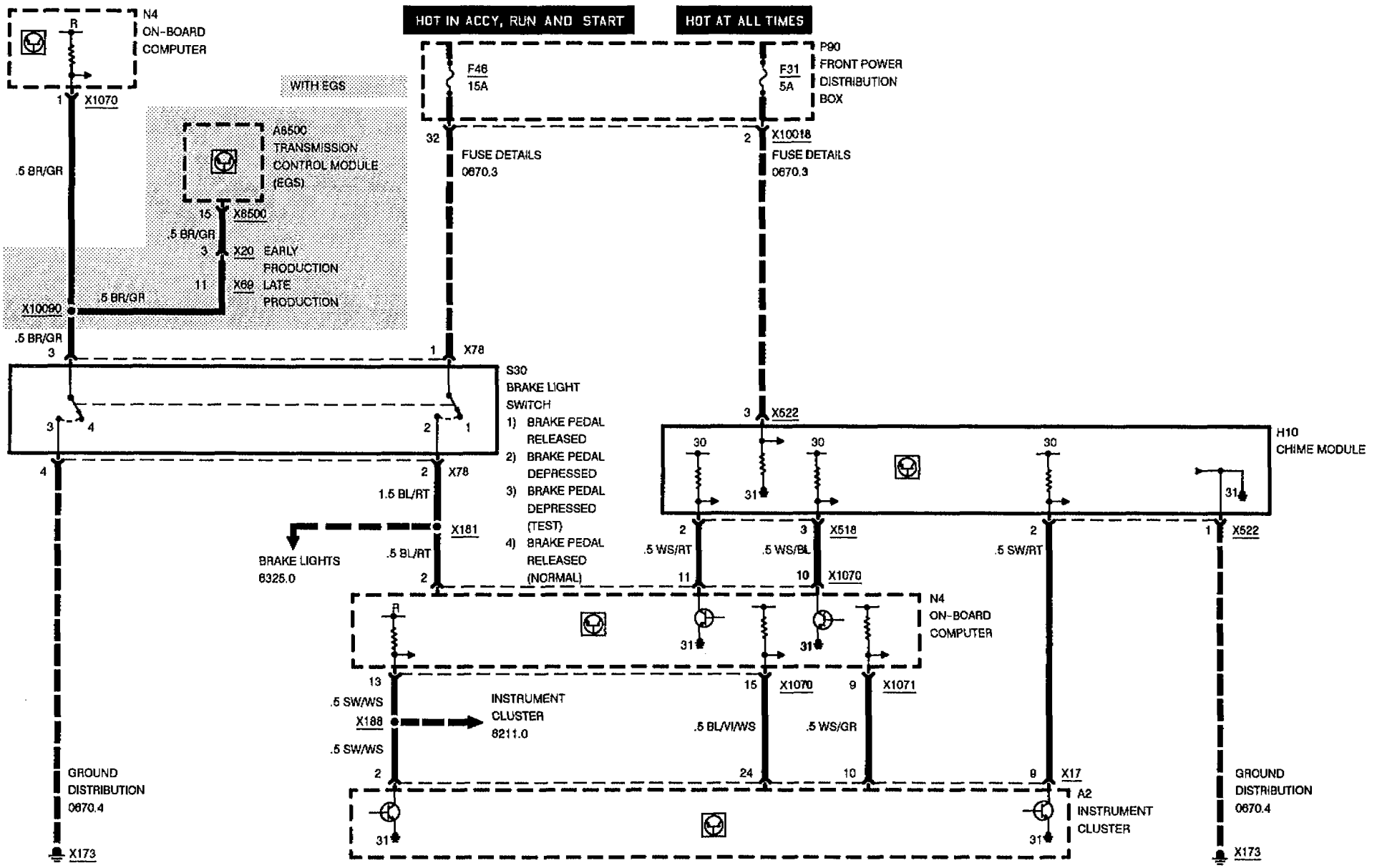
ON-BOARD COMPUTER (BC V)

POWER



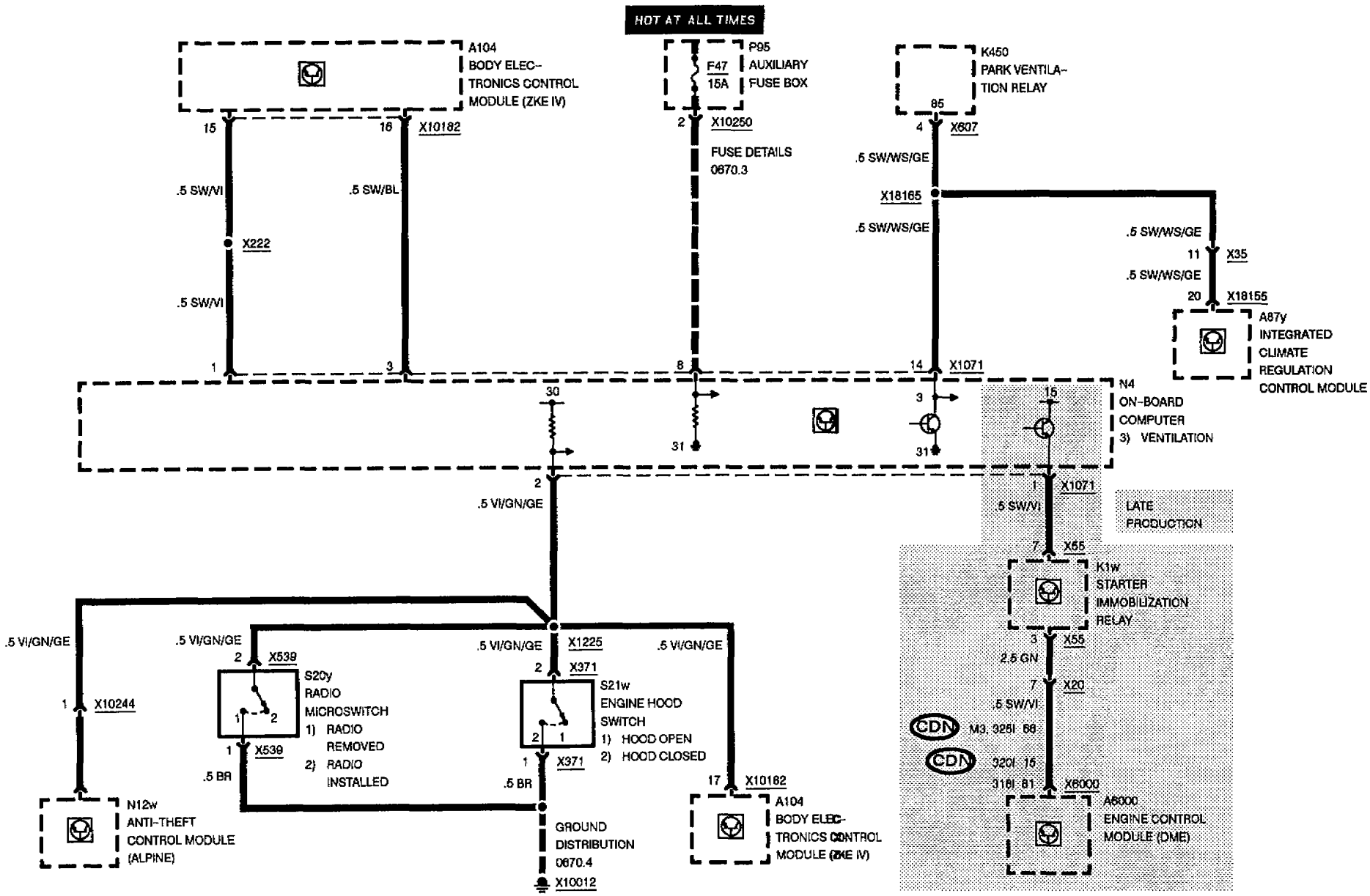
ON-BOARD COMPUTER (BC V)

CHIME, BRAKE LIGHT SWITCH



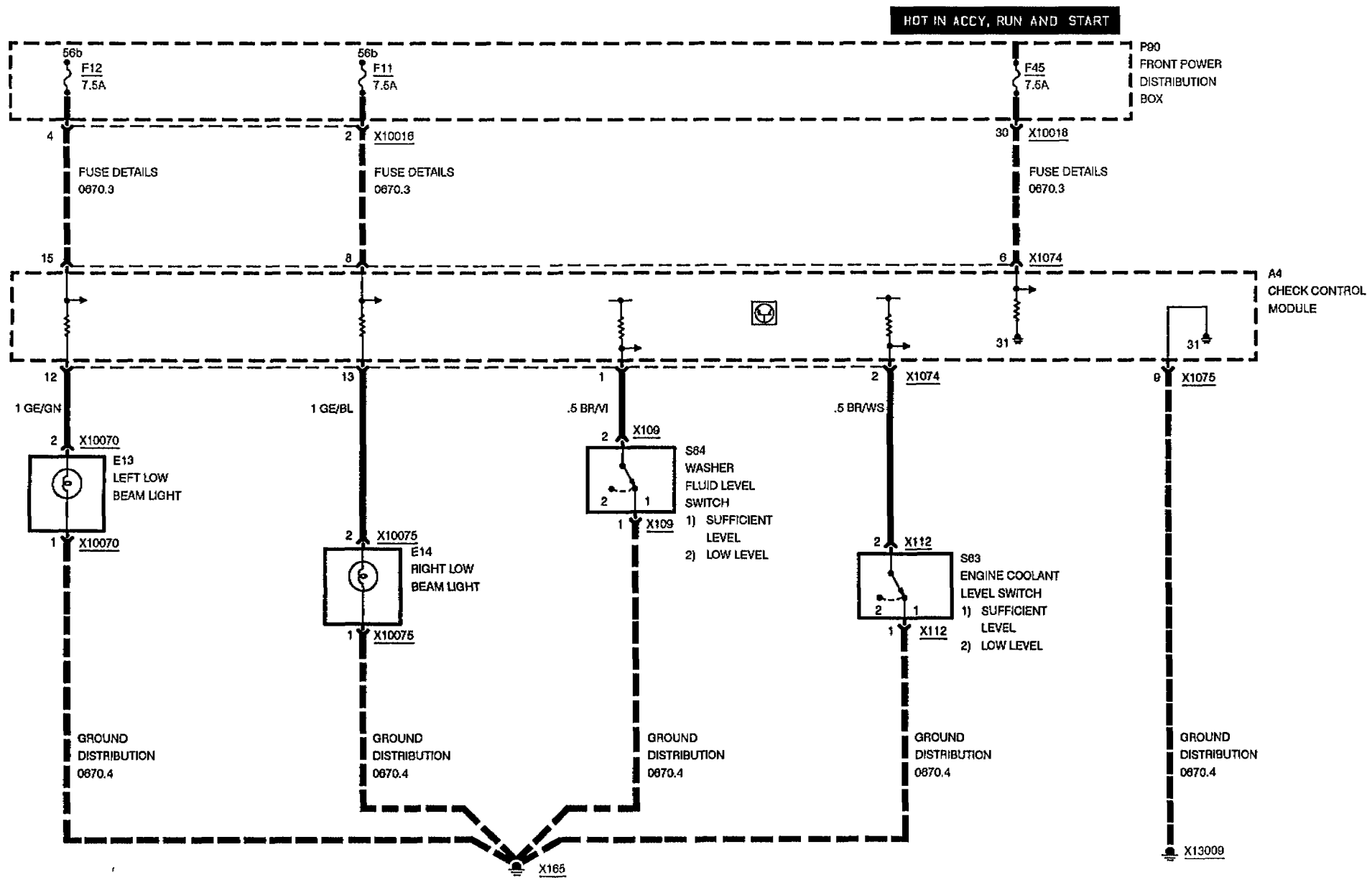
ON-BOARD COMPUTER (BC V)

DRIVE-AWAY PROTECTION



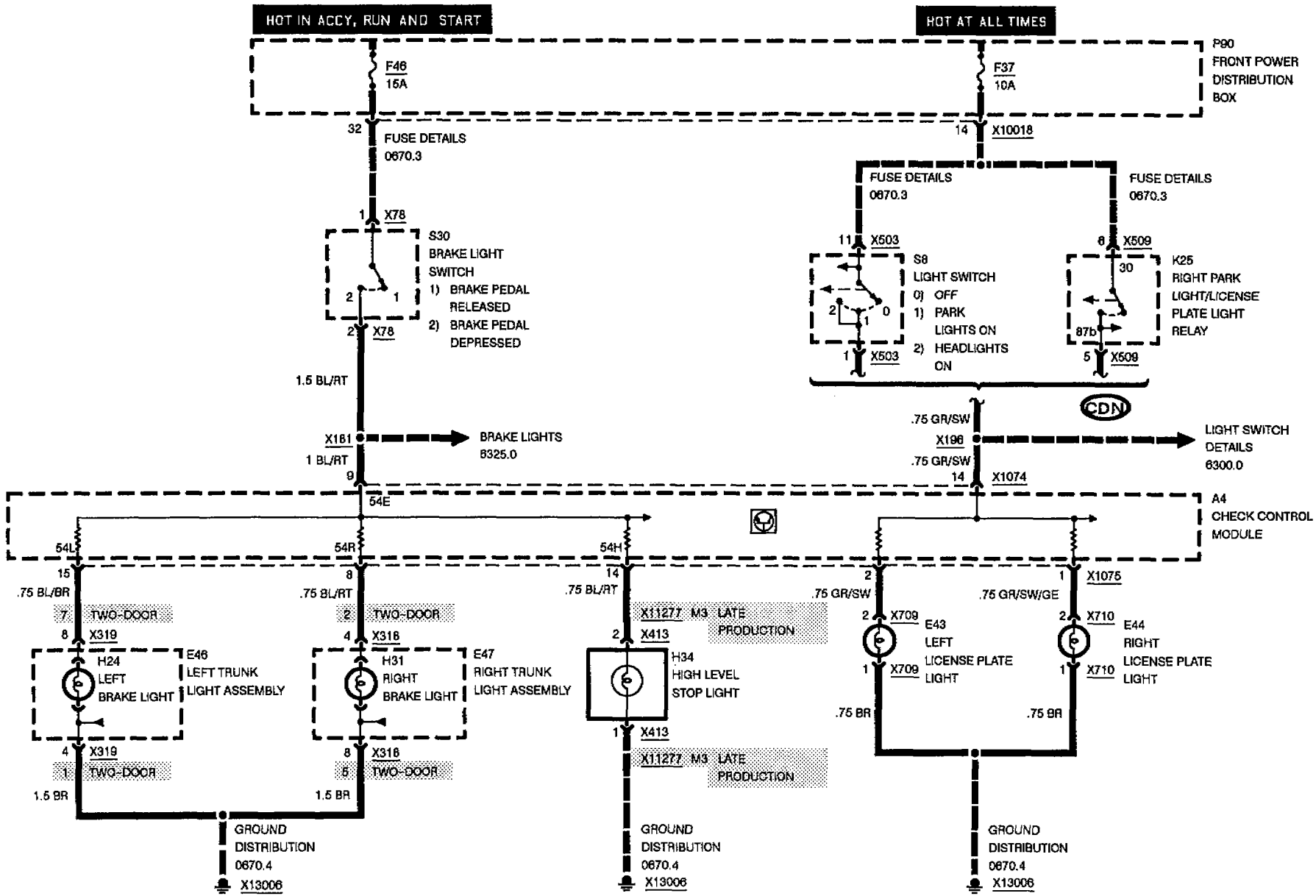
ON-BOARD COMPUTER (BC V)

CHECK CONTROL



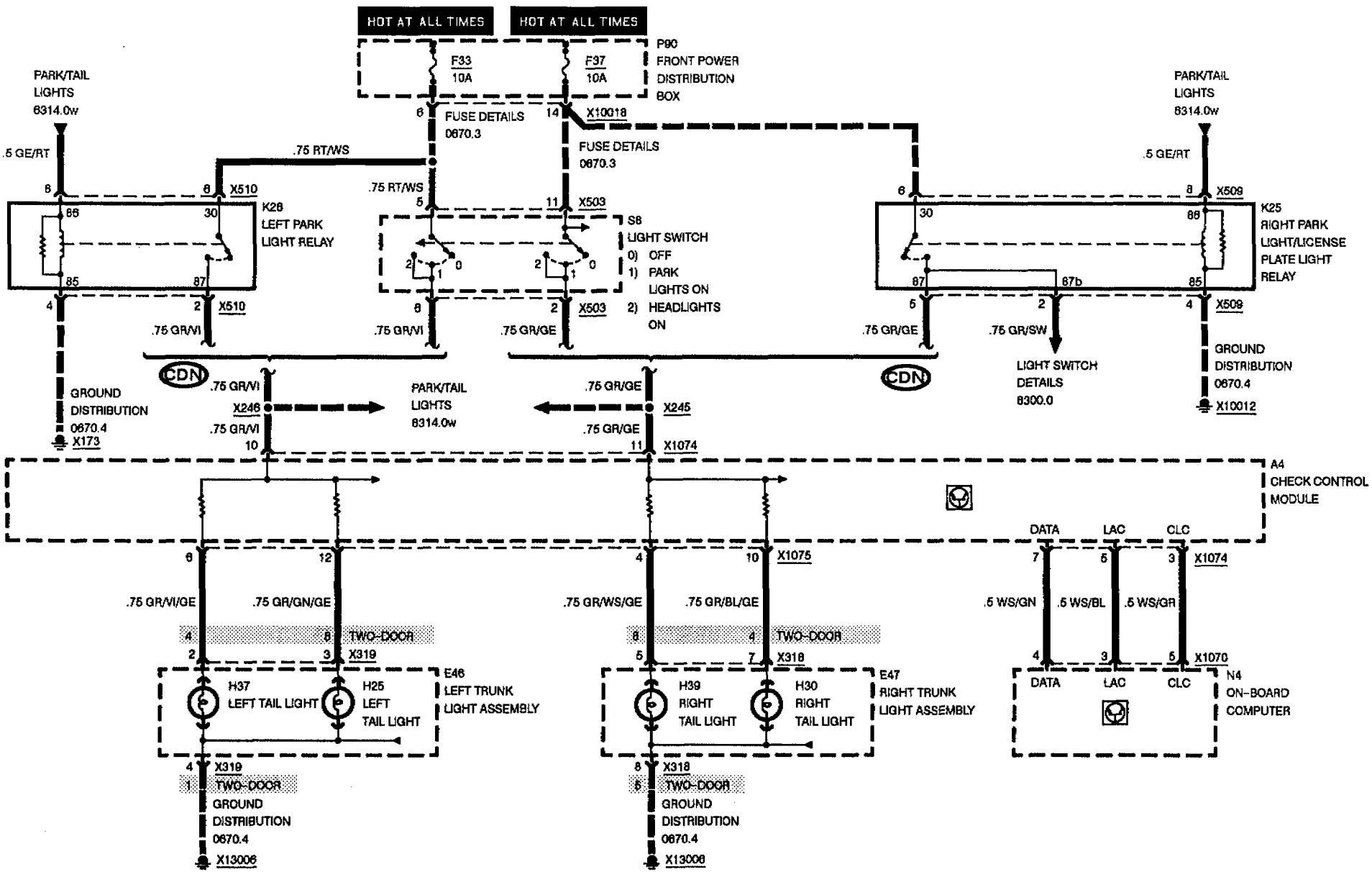
ON-BOARD COMPUTER (BC V)

CHECK CONTROL



ON-BOARD COMPUTER (BC V)

CHECK CONTROL



COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
A2	INSTRUMENT CLUSTER	LH side of dash	27-3	
A4	CHECK CONTROL MODULE	Below LH side of dash	00-3	
A5	RELAY MODULE	Behind glove box (glove box removed)	01-2	
A7	SLIP CONTROL MODULE (ABS)	RH side of dash behind glove box	01-3	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	RH side of dash behind glove box	01-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROLMODULE	Under rear seats	32-3	
A18	HIFI AMPLIFIER	Below RH side of rear seat Convertible	02-3	
A18	HIFI AMPLIFIER	In LH side of luggage compartment	04-1	
A35	ON-BOARD DISPLAY	Center of dash center console		
A51	WIPER/WASHER MODULE	Behind glove box (glove box removed)	01-1	
A52	SLIP CONTROL MODULE (ABS/ASC)	Behind glove box (glove box removed)	01-3	
A56	SUNROOF CONTROL ASSEMBLY	Under roof center panel	04-2	
A64	WIPER/WASHER MODULE (LOW II)	Behind glove box (glove box removed)		
A96	CONVERTIBLE TOP CONTROL MODULE	In lower LH C-pillar behind side panel	02-1	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	Behind glove box (glove box removed)	01-1	
A113	SEAT OCCUPANCY DETECTOR	Under RH front seat		
A117	TELEPHONE EJECT BOX	Center console		
A87y	INTEGRATED CLIMATE REGULATION CONTROLMODULE	Center console	03-2	

COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
A5024	VARIABLE CAMSHAFT CONTROL MODULE (VANOS)	Rear RH side of engine compartment	04-3	
A6000	ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment	00-1	
A7000	TRANSMISSION CONTROL MODULE (EGS)	Rear RH side of engine compartment	00-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	Rear RH side of engine compartment	00-1	
B1	RIGHT FRONT SPEED SENSOR - ABS	On RH front wheel, above brake caliper	08-3	
B2	LEFT FRONT SPEED SENSOR - ABS	On LH front wheel, above brake caliper	08-3	
B3	RIGHT REAR SPEED SENSOR - ABS	On RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR - ABS	On LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	Below LH side of rear seat	21-1	
B10	VEHICLE SPEED SENSOR	Under rear of car	08-1	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	Center console		
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	Center console		
B13	OUTSIDE TEMPERATURE SENSOR	Rear of engine compartment behind RH fresh air cowl	15-2	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell LH side of IHKR Plenum	27-1	
B16	LEFT FRONT BRAKE PAD SENSOR	On LH front wheel, above brake caliper	08-3	
B17	RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	Rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir (325i)	18-3	
B21	ON-BOARD COMPUTER TEMPERATURE SENSOR	Front RH side of engine compartment	15-1	
B25y	FUEL TANK SENSOR II	Top of fuel tank		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
B400	MICROPHONE	Center of dash	
B5022	VARIABLE CAMSHAFT CONTROL SENSOR 1	Front of engine compartment (M3)	12-2
B5023	VARIABLE CAMSHAFT CONTROL SENSOR 2	RH front of engine (M3)	12-1
B5028	HEATED OXYGEN SENSOR 2	Front of engine compartment	
B6200	HEATED OXYGEN SENSOR	Under center of car	15-3
B6203	CRANKSHAFT POSITION/RPM SENSOR	Under RH front of car rear of radiator	10-3
B6204	CAMSHAFT POSITION SENSOR (CYLINDERIDENTIFICATION)	RH front of engine below intake manifold rear of radiator (325i)	11-1
B6204	CAMSHAFT POSITION SENSOR (CYLINDERIDENTIFICATION)	RH front of engine (M3)	11-2
B6204	CAMSHAFT POSITION SENSOR (CYLINDERIDENTIFICATION)	RH front of engine (M3)	
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine (near oil level stick)	13-3
B6208	CAMSHAFT ACTUATOR	Front of engine	
B6209	HALL EFFECT CAMSHAFT SENSOR	Front of engine	
B6217	HOT FILM AIR MASS METER	Top front of engine	
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (325i)	11-1
B6231	OIL PRESSURE SWITCH	LH side of engine (near oil level stick) (M3)	14-2
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (318i)	17-1
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325i)	11-3

COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (M3)	12-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (318i)	17-2	
B6233	VOLUME AIR FLOW SENSOR	LH side of engine compartment right of LH side shock tower		
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325i)	11-1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (M3)	12-1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (318i)	17-2	
B6238	OIL TEMPERATURE SENSOR	LH side of engine (M3)	14-2	
B6241	CYL. 1-2 KNOCK SENSOR	Top front of engine		
B6242	CYL. 3-4 KNOCK SENSOR	Top front of engine (M3)	14-3	
B6243	CYL. 5-6 KNOCK SENSOR	Top front of engine (M3)		
B9508	PRESSURE SWITCH	Front RH side of engine compartment near RH headlight assembly	09-3	
B6241w	CYL. 1-3 KNOCK SENSOR	Top front of engine		
B6242w	CYL. 4-6 KNOCK SENSOR	Top front of engine		
C101	CONTACT RING	Top of steering column	24-1	
C900	SUPPRESSION FILTER	In upper RH C-pillar	33-2	
D100	DATA LINK CONNECTOR	Rear RH side of engine compartment	05-1	
E9	REAR DEFOGGER I	In upper RH C-pillar	33-2	
E10	REAR DEFOGGER/ANTENNA	In rear window		
E11	LEFT HIGH BEAM LIGHT	Near LH headlight assembly		
E12	RIGHT HIGH BEAM LIGHT	Near RH headlight assembly		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
E13	LEFT LOW BEAM LIGHT	Near LH headlight assembly	
E14	RIGHT LOW BEAM LIGHT	Near RH headlight assembly	
E15	LEFT PARK LIGHT	Front of vehicle	
E19	RIGHT PARK LIGHT	Front of vehicle	
E20	UNDERHOOD LIGHT	On underside of engine hood (early production)	
E25	FRONT ASHTRAY LIGHT	Center console	30-2
E26	LEFT FOG LIGHT	Under LH front bumper	08-2
E27	RIGHT FOG LIGHT	Under RH front bumper	08-2
E28	FRONT CIGAR LIGHTER	Near gearshift lever	
E29	FRONT CIGAR LIGHTER LIGHT	Center console	
E32	TRUNK COMPARTMENT LIGHT	In luggage compartment	
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	Under roof center panel	04-2
E35	DRIVER'S MAKEUP MIRROR LIGHT	Above LH sun visor	23-1
E36	PASSENGER'S MAKEUP MIRROR LIGHT	Above RH sun visor	32-2
E39	LEFT REAR INTERIOR LIGHT	In upper LH C-pillar	33-1
E40	RIGHT REAR INTERIOR LIGHT	In upper RH C-pillar	33-2
E42y	GLOVE BOX LIGHT/SWITCH	Behind glove box (glove box removed)	25-1
E43	LEFT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	09-1
E44	RIGHT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	09-1
E46	LEFT TRUNK LIGHT ASSEMBLY	In LH rear side of luggage compartment	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
E47	RIGHT TRUNK LIGHT ASSEMBLY	In RH rear side of luggage compartment	03-3
E48	DOOR LOCK HEATER	LH front door	31-2
E51	LEFT WASHER JET HEATER	On underside of engine hood	24-2
E52	RIGHT WASHER JET HEATER	On underside of engine hood	24-2
E56	DRIVER'S SEATBACK HEATER	In upper LH front seatback	23-3
E57	DRIVER'S SEAT HEATER	Under LH front seat	23-3
E58	PASSENGER'S SEAT HEATER	Underside of RH front seat	
E59	PASSENGER'S SEATBACK HEATER	In upper RH front seatback	
E82	TRANSMISSION POSITION INDICATOR LIGHT	Center console	
E99	HARD TOP CONNECTOR 1	In convertible top compartment	
E101	LEFT TRUNK COMPARTMENT LIGHT	In LH rear side of luggage compartment Convertible	
E102	RIGHT TRUNK COMPARTMENT LIGHT	In RH rear side of luggage compartment Convertible	
E104	THROTTLE FLAP HEATER	LH side of engine compartment	
E28y	REAR ASHTRAY LIGHT	Below center console	30-2
E45y	CASSETTE BOX LIGHT	Center of dash	
E100y	HARD TOP CONNECTOR 2	In convertible top compartment	
G1	BATTERY	Front RH side of engine compartment	
G5	DRIVER'S AIR BAG GAS GENERATOR	Behind steering wheel	24-1
G6	PASSENGER'S AIR BAG GAS GENERATOR I	Above glove box	32-1
G6430	B+ JUMP START JUNCTION POINT	Rear RH side of engine compartment back of RH side shock tower	05-1

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
G6509	GENERATOR	Front LH side of engine compartment	05-2
H2	LEFT HORN	Front of engine compartment	
H3	RIGHT HORN	Front of engine compartment	
H4	RIGHT FRONT TURN LIGHT	Front of vehicle	
H5	RIGHT REAR TURN LIGHT	RH side of body rear end	
H6	LEFT REAR TURN LIGHT	LH side of body rear end	
H7	LEFT FRONT TURN LIGHT	Front of vehicle	
H8	RIGHT FRONT AUXILIARY TURN LIGHT	Front of vehicle	
H9	LEFT FRONT AUXILIARY TURN LIGHT	Front of vehicle	
H10	CHIME MODULE	Below LH side of dash	
H1w	ANTI-THEFT HORN (ALPINE)	Front RH side of engine compartment	
H24	LEFT BRAKE LIGHT	LH side of body rear end	
H25	LEFT TAIL LIGHT	LH side of body rear end	
H26	LEFT REAR FOG LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H27	LEFT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H28	RIGHT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H30	RIGHT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	
H31	RIGHT BRAKE LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	
H34	HIGH LEVEL STOP LIGHT	At back of rear window shelf	
H37	LEFT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	

COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

H38 ... TELEPHONE TRANSCEIVER ..... Rear side of luggage compartment
H41 ... LEFT FRONT SPEAKER ..... In lower LH A-pillar
H42 ... LEFT MID-HIGH RANGE SPEAKER ..... In upper LH front door
H43 ... RIGHT MID-HIGH RANGE SPEAKER ..... In upper RH front door
H45 ... RIGHT REAR SPEAKER ..... Under rear window shelf
H46 ... LEFT REAR SPEAKER ..... Under rear window shelf
H50 ... RIGHT FRONT HIGH RANGE SPEAKER ..... In upper RH front door
H51 ... RIGHT FRONT LOW RANGE SPEAKER ..... In lower RH A-pillar
H52 ... RIGHT REAR LOW RANGE SPEAKER ..... Under rear window shelf
H53 ... RIGHT REAR HIGH RANGE SPEAKER ..... Under rear window shelf
H54 ... RIGHT FRONT MIDRANGE SPEAKER ..... In upper RH front door
H55 ... LEFT FRONT MIDRANGE SPEAKER ..... In upper LH front door
H56 ... LEFT REAR HIGH RANGE SPEAKER ..... Under rear window shelf
H57 ... LEFT REAR LOW RANGE SPEAKER ..... Under rear window shelf
H58 ... LEFT FRONT LOW RANGE SPEAKER ..... In lower LH A-pillar
H59 ... LEFT FRONT HIGH RANGE SPEAKER ..... In upper LH front door
K1 .... STARTER RELAY ..... Behind LH footwell speaker grille 25-3
K2 .... HORN RELAY ..... Rear LH side of engine compartment in Power Distribution Box 19-2
K4 .... BLOWER RELAY ..... Rear LH side of engine compartment in Power Distribution Box 19-2
K9 .... UNLOADER RELAY, TERMINAL 15 ..... Behind LH footwell speaker grille 25-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
K10	ABS RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K11	WIPER RELAY	Behind LH footwell speaker grille	25-3
K13	REAR DEFOGGER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K16	HAZARD FLASHER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K19	COMPRESSOR CONTROL RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K1w	STARTER IMMOBILIZATION RELAY	Behind LH footwell speaker grille (late production)	25-3
K21	NORMAL SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	19-3
K22	HIGH SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	19-3
K25	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	RH side of dash behind glove box	
K26	LEFT PARK LIGHT RELAY	RH side of dash behind glove box	
K46	HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K47	FRONT FOG LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K48	LOW BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K53	WIPER MOTOR RELAY	Behind LH footwell speaker grille	25-3
K75	ABS PUMP MOTOR RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K99	REAR WINDOW BLOWER RELAY	Behind glove box (glove box removed)	25-2
K108	HORN RELAY (ALPINE)	Behind glove box (glove box removed)	25-2
K114	COMFORT RELAY	Footwell, driver's side	
K117	TRUNK LID RELAY	Behind glove box	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
K450	PARK VENTILATION RELAY	Footwell, driver's side	02-2
K5029	DOUBLE RELAY	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3
K6300	ENGINE CONTROL MODULE RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K6300	ENGINE CONTROL MODULE RELAY	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3
K6301	CYL. 1-6 FUEL PUMP RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1
K6303	OXYGEN SENSOR RELAY	Power Distribution Box rear LH side of engine compartment	
K6307	FUEL PUMP/START IDENTIFICATION RELAY	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3
K6301w	FUEL PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box	
M2	FUEL PUMP	Below RH side of rear seat	20-1
M3	WIPER MOTOR	Rear of engine compartment below center of cowl	16-1
M4	WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	10-1
M5	INTENSIVE WASH PUMP	Front RH side of engine compartment	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	10-2
M9	AUXILIARY FAN MOTOR	Behind front grille behind trim panel	18-1
M12	DRIVER'S DOOR LOCK MOTOR	In lower LH front door behind trim panel	
M13	PASSENGER'S DOOR LOCK MOTOR	In lower RH side of front door behind trim panel	
M14	RIGHT REAR DOOR LOCK MOTOR	In lower RH rear door behind trim panel	
M15	LEFT REAR DOOR LOCK MOTOR	In lower LH rear door behind trim panel	
M16	GAS FILLER LOCK MOTOR	In RH rear side of luggage compartment	03-3
M17	TRUNK LOCK MOTOR	Rear side of luggage compartment	

COMPONENT LOCATION CHART

COMPONENT

			PAGE – FIGURE 7100.0	8500.0
M20 ...	LEFT REAR WINDOW MOTOR	In lower LH rear door behind trim panel		
M21 ...	DRIVER'S WINDOW MOTOR	LH front door behind door panel		30-3
M22 ...	RIGHT REAR WINDOW MOTOR	In lower RH rear door behind door panel		
M23 ...	PASSENGER'S WINDOW MOTOR	RH front door behind door panel		31-1
M24 ...	SUNROOF MOTOR	Center of windshield header		
M25 ...	CRUISE CONTROL ACTUATOR (TEMPOMAT)	Front LH side of engine compartment		18-2
M30 ...	BLOWER MOTOR	Rear of engine compartment behind RH fresh air cowl		15-2
M34 ...	DASH VENT MIXING FLAP MOTOR	Below LH side of dash RH side of steering column		28-2
M36 ...	FRESH AIR FLAP MOTOR	Below RH side of dash center console right		28-3
M40 ...	RECIRCULATION FLAP MOTOR	Below LH side of dash RH side of steering column		28-2
M43 ...	CONVERTIBLE TOP STORAGE LID LOCK MOTOR	Left in convertible top compartment		21-3
M50 ...	DRIVER'S SEAT CUSHION TILT MOTOR	Under LH front seat		23-3
M51 ...	DRIVER'S SEAT MOVEMENT MOTOR	Under LH front seat		23-3
M52 ...	DRIVER'S SEAT HEIGHT MOTOR	Under LH front seat		23-3
M53 ...	DRIVER'S SEATBACK RECLINER MOTOR	Under LH front seat		23-3
M58 ...	PASSENGER'S SEATBACK RECLINER MOTOR	Under RH front seat		
M59 ...	PASSENGER'S SEAT HEIGHT MOTOR	Under RH front seat		
M60 ...	PASSENGER'S SEAT MOVEMENT MOTOR	Under RH front seat		
M61 ...	PASSENGER'S SEAT CUSHION TILT MOTOR	Under RH front seat		
M93 ...	AUXILIARY THROTTLE POSITION MOTOR (ADS)	Front of engine compartment		

BMW 3 COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
M98	LEFT REAR WINDOW MOTOR	Left from LH rear seat behind trim panel	22-1
M99	RIGHT REAR WINDOW MOTOR	RH side of RH rear seat behind trim panel	22-1
M100	CONVERTIBLE TOP STORAGE LID MOTOR	In LH side of luggage compartment	34-1
M101	CONVERTIBLE TOP MOTOR	In LH side of luggage compartment	34-3
M105	REAR WINDOW BLOWER	Behind rear seats Convertible	21-2
M107	GLOVE BOX LOCK MOTOR	Left of glove box (glove box removed)	25-1
M6133	AIR PUMP	Front of engine compartment	
M6510	STARTER	Rear LH side of engine compartment	
N3	DIMMER	LH side of dash	26-1
N4	ON-BOARD COMPUTER	Center console	03-1
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Footwell, driver's side	02-2
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar	33-1
N10	MULTI-FUNCTION CLOCK	Center console	
N17	CRASH CONTROL MODULE	Footwell, driver's side	02-2
N21	TWIN RELAY MODULE	Footwell, driver's side	02-2
N22	CD CHANGER	In LH forward side of luggage compartment	03-3
N24	ROLLOVER SENSOR	In lower LH C-pillar behind side panel	02-1
N12w	ANTI-THEFT CONTROL MODULE (ALPINE)	Behind glove box (glove box removed)	01-3
N404	DIVERSITY	In upper LH C-pillar	
N444	FM AMPLIFIER HLO	In upper RH C-pillar	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment	05-3	
P95	AUXILIARY FUSE BOX	Behind LH footwell kickpanel		
R1	MIXING SWITCH	Center console		
R11	BLOWER RESISTORS	Behind center of dashboard left	28-1	
R13	HEADLIGHT WIDENING POTENTIOMETER	Front of engine compartment		
R6252	THROTTLE POSITION SENSOR	RH front of engine (M3)	11-2	
R6252	THROTTLE POSITION SENSOR	LH side of engine (near oil level stick) (320i-325i)	13-3	
R6252	THROTTLE POSITION SENSOR	LH side of engine compartment (318i)	17-3	
S2	IGNITION SWITCH	RH side of steering column	24-3	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	Center console near gearshift lever	29-3	
S4	HORN SWITCH	Top of steering column	24-1	
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	Center console	29-2	
S7	COMBINATION SWITCH	LH side of steering column	24-3	
S8	LIGHT SWITCH	LH side of dash	26-1	
S10	FOG LIGHT SWITCH	LH side of dash		
S13	PASSENGER'S DOOR JAMB SWITCH	Rear RH door pillar	33-3	
S14	DRIVER'S DOOR JAMB SWITCH	LH rear door jamb	33-3	
S15	REAR RIGHT DOOR JAMB SWITCH	In lower RH C-pillar	33-3	
S16	LEFT REAR DOOR JAMB SWITCH	In lower LH C-pillar	33-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
S17	MIRROR CONTROL SWITCH	In upper LH front door		
S18	HAZARD SWITCH	Center console near gearshift lever	29-3	
S27	INERTIA SWITCH	In lower RH A-pillar		
S28	CRUISE CONTROL SWITCH	RH side of steering column above	24-3	
S29	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-3	
S30	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	
S31	PARK BRAKE SWITCH	Center console on rear of park brake lever	30-2	
S32	CLUTCH SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim	26-3	
S36	TEMPERATURE SWITCH	Front RH side of engine compartment near RH headlight assembly	09-3	
S38	SUNROOF SWITCH	Roof		
S41	LEFT REAR WINDOW SWITCH	In lower LH rear door behind trim panel		
S42	RIGHT REAR WINDOW SWITCH	In lower RH rear door behind trim panel		
S48	DRIVER'S DOOR HANDLE SWITCH	Door handle		
S51	DRIVER'S SEAT, SEAT CONTROL SWITCH	LH side of driver's seat		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever	29-2	
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever	29-1	
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	Passenger's seat, right		
S58	DRIVER'S SEAT BELT SWITCH	In LH front seat belt buckle		
S59	PASSENGER'S SEAT BELT SWITCH	In RH front seat belt buckle		

COMPONENT LOCATION CHART

COMPONENT

PAGE – FIGURE
7100.0 8500.0

S63	ENGINE COOLANT LEVEL SWITCH	Front RH side of engine compartment	18-1
S64	WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir	10-1
S71	LEFT FRONT IMPACT SENSOR	LH side of engine compartment	
S75	BLOWER SWITCH	Center of dash	
S77	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor	23-1
S78	PASSENGER'S MAKEUP MIRROR SWITCH	Above RH sun visor	32-2
S82	REAR FOG LIGHT SWITCH	LH side of dash	
S123	ABS PEDAL TRAVEL SENSOR	Near brake master cylinder	18-3
S130	CHILD PROTECTION CONTROL (CONSOLE)	Center console	
S143	CONVERTIBLE TOP ACTUATING SWITCH	Center console	
S164	CONVERTIBLE TOP END-POSITION MICRO SWITCH	At convertible top linkage	
S165	CONVERTIBLE TOP POSITION MICRO SWITCH	At convertible top linkage	
S196	REAR WINDOW BLOWER MICRO SWITCH	At convertible top linkage	
S20y	RADIO MICROSWITCH	Center of dash	
S213	TRUNK LID MICRO SWITCH	In LH rear side of luggage compartment	
S214	CONVERTIBLE TOP STORAGE LID MICRO SWITCH	At convertible top linkage	
S21w	ENGINE HOOD SWITCH	Front RH side of engine compartment	13-2
S40y	CENTRAL POWER WINDOW SWITCH	Center console	
S61y	TRUNK LIGHT SWITCH	Underside of trunk lid left	34-2

COMPONENT LOCATION CHART

COMPONENT

			PAGE – FIGURE 7100.0	8500.0
S126y	DRIVER'S POWER WINDOW SWITCH	Center console near gearshift lever	30-1	
S127y	PASSENGER'S POWER WINDOW SWITCH	Center console near gearshift lever	30-1	
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console		
S128z	LH REAR POWER WINDOW SWITCH	Center console		
S129y	RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console		
S129z	RH REAR POWER WINDOW SWITCH	Center console		
S134y	IHKR CONTROL PANEL	Center of dash		
S8503	PROGRAM SWITCH	Center console		
S8507	KICK-DOWN SWITCH	LH footwell		
S8511	REVERSING LIGHT SWITCH	Under front of car LH side of transmission		
T6151	CYL. 1 IGNITION COIL	Top RH side of engine	13-1	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment (318i)	17-3	
T6152	CYL. 2 IGNITION COIL	Top RH side of engine	13-1	
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment (318i)	17-3	
T6153	CYL. 3 IGNITION COIL	Top RH side of engine	13-1	
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment (318i)	17-3	
T6154	CYL. 4 IGNITION COIL	Top RH side of engine	13-1	
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment (318i)	17-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
T6155	CYL. 5 IGNITION COIL	Top RH side of engine	13–1	
T6156	CYL. 6 IGNITION COIL	Top RH side of engine	13–1	
U4	TELEPHONE HANDSET	Below front of console		
V4	DAYTIME RUNNING LIGHTS CODING DIODE	LH side of dash		
V7	ASC DIODE	Top LH side of engine compartment in Front Power Distribution Box		
V9501	UNCOUPLING DIODE (KL61)	Front of engine compartment		
X0	B+ JUNCTION POINT	Rear LH side of engine compartment	05–3	
X2	BATTERY B+ START POINT	Rear LH side of engine compartment	05–3	
X9	B+ JUNCTION POINT	Rear LH side of engine compartment	05–3	
X11	CONNECTOR (55-PINS, BLACK)	Behind glove box (glove box removed)	01–3	00–1
X13	CONNECTOR (30-PINS, BLACK)	Behind LH footwell kickpanel	00–2	00–4
X14	CONNECTOR (30-PINS, WHITE)	Behind LH footwell kickpanel	00–2	00–4
X16	CONNECTOR (26-PINS, WHITE)	LH side of dash rear of A2 instrument cluster	27–3	00–2
X17	CONNECTOR (26-PINS, BLUE)	LH side of dash rear of A2 instrument cluster	27–3	00–2
X20	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	18–3	05–2
X22	CONNECTOR (26-PINS, BLUE)	RH side of dash behind glove box	01–2	00–2
X31	CONNECTOR (12-PINS, BLACK)	Rear LH side of engine compartment back of LH side shock tower	16–2	01–6
X32	CONNECTOR (12-PINS, WHITE)	LH footwell underside of steering column	27–2	02–6
X33	CONNECTOR (12-PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	26–2	02–6
X35	CONNECTOR (12-PINS, NATURAL)	Below LH side of dash RH side of steering column	27–1	02–6

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X43	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X44	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X45	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X51	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X52	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X53	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X54	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X55	CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		04-6
X56	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X58	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X61	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X63	CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		04-6
X64	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		04-6
X65	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		04-6
X69	CONNECTOR (25-PINS, GRAY)	Rear LH side of engine compartment (325i)	18-3	05-2
X70	CONNECTOR (8-PINS, BLACK)	Front LH side of engine compartment	18-2	02-2
X72	CONNECTOR (8-PINS, NATURAL)	LH footwell underside of steering column behind LH footwell trim	26-2	03-5
X72	CONNECTOR (6-PINS, NATURAL)	LH footwell underside of steering column behind LH footwell trim (late production)		04-2
X74	CONNECTOR (30-PINS, ORANGE)	Under rear seats	32-3	10-1

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X78	CONNECTOR (4-PINS, BLACK)	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	03-3
X82	CONNECTOR (3-PINS, BLACK)	Front of engine compartment on auxiliary fan	18-1	08-1
X85	CONNECTOR (3-PINS, BLACK)	Rear LH side of engine compartment	16-2	06-3
X87	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment RH top of radiator	09-3	06-3
X99	CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		03-6
X105	CONNECTOR (2-PINS, WHITE)	On underside of engine hood	24-2	
X106	CONNECTOR (2-PINS, WHITE)	On underside of engine hood	24-2	
X107	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	10-1	
X109	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir	10-1	
X110	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment		
X111	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir	18-3	
X112	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	18-1	
X113	CONNECTOR (2-PINS, GRAY)	Above RH front wheel well behind RH front wheel	09-2	
X114	CONNECTOR (2-PINS, GRAY)	Above LH front wheel well behind LH front wheel	09-2	
X116	CONNECTOR (2-PINS, BLACK)	LH footwell on brake pedal support bracket behind LH footwell trim	26-3	
X118	CONNECTOR (2-PINS, BLACK)	Above LH front wheel well behind LH front wheel	09-2	
X121	CONNECTOR (2-PINS, WHITE)	LH footwell on clutch pedal support bracket	26-3	
X123	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	10-2	
X126	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment near RH headlight assembly	09-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X127	CONNECTOR (2-PINS, NATURAL)	Front RH side of engine compartment near RH headlight assembly	09-3	
X128	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment		
X132	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X133	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X137	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment		
X142	CONNECTOR (3-PINS, GRAY)	Under rear of car LH side of on differential		02-2
X143	CONNECTOR (3-PINS, GRAY)	Under rear of car LH side of on differential	08-1	02-1
X161	CONNECTOR (1-PINS, WHITE)	Near RH headlight assembly		
X163	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	10-1	06-3
X165	GROUND	Front LH side of engine compartment	06-3	
X173	GROUND	Below LH side of dash	07-1	
X209	CONNECTOR (12-PINS, BLACK)	LH footwell underside of steering column		
X256	CONNECTOR (26-PINS, BLACK)	Ahead of RH front door in lower RH A-pillar	31-1	04-1
X257	CONNECTOR (26-PINS, BLACK)	Ahead of LH front door in lower LH A-pillar		04-1
X271	CONNECTOR (12-PINS, BLACK)	LH side of dash rear of A2 instrument cluster	27-3	01-3
X272	CONNECTOR (2-PINS, BLACK)	Under roof center panel		
X273	CONNECTOR (12-PINS, BLACK)	In lower LH B-pillar	20-3	01-2
X274	CONNECTOR (12-PINS, BLACK)	In lower RH B-pillar	20-3	01-2
X275	CONNECTOR (4-PINS, WHITE)	Under LH front seat under carpet	23-2	03-3

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X279 ..	CONNECTOR (4-PINS, WHITE)	Under RH front seat	31-3	03-3
X285 ..	CONNECTOR (15-PINS, BLUE)	Behind glove box (glove box removed)	25-2	00-3
X292 ..	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X295 ..	CONNECTOR (8-PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	26-2	03-5
X311 ..	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid left	34-2	04-6
X312 ..	CONNECTOR (2-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	03-3	
X315 ..	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid left	34-2	
X316 ..	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	30-1	04-2
X317 ..	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	29-3	04-2
X318 ..	CONNECTOR (8-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	03-3	01-4
X319 ..	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment behind LH rear light assembly		01-4
X320 ..	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	29-3	04-2
X322 ..	CONNECTOR (6-PINS, BLACK)	LH footwell	27-2	04-2
X324 ..	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	30-1	04-2
X333 ..	CONNECTOR (4-PINS, BLACK)	Rear of engine compartment below center of cowl	16-1	07-2
X336 ..	CONNECTOR (6-PINS, WHITE)	Under roof center panel	04-2	04-5
X351 ..	CONNECTOR (2-PINS, BLACK)	In upper RH B-pillar		
X352 ..	CONNECTOR (2-PINS, BLACK)	In upper LH B-pillar		
X355 ..	CONNECTOR (2-PINS, BLACK)	In upper RH C-pillar	33-2	
X356 ..	CONNECTOR (2-PINS, BLACK)	In upper LH C-pillar	33-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X371	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	13-2	
X372	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment	13-2	
X379	CONNECTOR (1-PINS, NATURAL)	In upper LH C-pillar	33-1	
X380	CONNECTOR (1-PINS, NATURAL)	In upper RH C-pillar	33-2	
X381	CONNECTOR (3-PINS, BLACK)	Above LH sun visor	23-1	01-1
X382	CONNECTOR (3-PINS, BLACK)	Above RH sun visor	32-2	01-1
X383	CONNECTOR (2-PINS, BLACK)	Under rear of car LH side of on differential	08-1	
X386	CONNECTOR (2-PINS, BLACK)	REAR ASHTRAY LIGHT, E28y		
X388	CONNECTOR (2-PINS, BLACK)	In lower RH A-pillar		
X389	CONNECTOR (2-PINS, GRAY)	Rear LH side of engine compartment		
X390	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box		
X400	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment		03-5
X401	CONNECTOR (1-PINS, BLACK)	Above LH sun visor	23-1	
X402	CONNECTOR (1-PINS, BLACK)	Above RH sun visor	32-2	
X413	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X423	CONNECTOR (1-PINS, NATURAL)	Below center console on rear of park brake lever		
X424	CONNECTOR (1-PINS, BROWN)	In upper LH C-pillar	33-1	
X494	GROUND	Center console near gearshift lever	07-2	
X495	GROUND	Behind RH footwell trim above	07-3	
X498	GROUND	Center console near gearshift lever	07-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X503 ..	CONNECTOR (12-PINS, WHITE)	Below LH side of dash	26-1	02-6
X504 ..	CONNECTOR (4-PINS, WHITE)	Below LH side of dash	26-1	03-3
X509 ..	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)		03-6
X510 ..	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)		03-6
X511 ..	CONNECTOR (8-PINS, BLACK)	Center console near gearshift lever	29-3	01-4
X516 ..	CONNECTOR (5-PINS, BLACK)	Center console	29-3	03-2
X517 ..	CONNECTOR (4-PINS, BLACK)	Below LH side of dash	26-1	03-3
X518 ..	CONNECTOR (4-PINS, BLACK)	LH footwell	27-2	03-3
X521 ..	CONNECTOR (6-PINS, BLUE)	Center console		01-4
X522 ..	CONNECTOR (3-PINS, WHITE)	LH footwell	27-2	04-6
X523 ..	CONNECTOR (3-PINS, NATURAL)	LH side of dash		04-6
X531 ..	CONNECTOR (1-PINS, NATURAL)	Center console near gearshift lever	29-2	
X532 ..	CONNECTOR (2-PINS, BLACK)	Center console near gearshift lever	29-2	
X537 ..	CONNECTOR (2-PINS, BLACK)	In upper LH front door behind door panel	30-3	
X538 ..	CONNECTOR (2-PINS, BLACK)	RH front door behind door panel	31-1	
X539 ..	CONNECTOR (2-PINS, BLACK)	Center console		
X540 ..	CONNECTOR (2-PINS, BLACK)	Behind glove box (glove box removed)	32-1	
X541 ..	CONNECTOR (1-PINS, NATURAL)	Behind glove box (glove box removed)	32-1	
X542 ..	CONNECTOR (2-PINS, BLACK)	LH side of glove box (glove box removed)	25-1	
X603 ..	CONNECTOR (6-PINS, (---))	Center console		05-1

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X604	CONNECTOR (6-PINS, (---))	Passenger's seat, right		05-1
X605	CONNECTOR (12-PINS, BLACK)	Below RH side of rear seat Convertible	02-3	01-3
X605	CONNECTOR (12-PINS, BLACK)	In LH side of luggage compartment	04-1	01-3
X606	CONNECTOR (26-PINS, BLACK)	Below RH side of rear seat Convertible	02-3	00-2
X606	CONNECTOR (26-PINS, BLACK)	In LH side of luggage compartment	04-1	00-2
X607	CONNECTOR (9-PINS, BLACK)	Below LH side of dash footwell, driver's side		03-6
X623	CONNECTOR (4-PINS, BLACK)	In upper LH front door behind door panel		09-6
X624	CONNECTOR (4-PINS, BLACK)	In upper RH front door behind door panel	31-1	03-3
X625	CONNECTOR (6-PINS, WHITE)	LH front door	30-3	06-1
X638	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat	20-1	
X641	CONNECTOR (6-PINS, BLACK)	RH front door behind door panel		08-2
X644	CONNECTOR (6-PINS, BLACK)	In lower LH rear door		05-3
X645	CONNECTOR (6-PINS, BLUE)	In lower LH rear door		06-2
X646	CONNECTOR (6-PINS, BLACK)	In lower RH rear door behind trim panel		06-2
X647	CONNECTOR (6-PINS, BLUE)	In lower RH rear door behind trim panel		08-4
X651	CONNECTOR (6-PINS, YELLOW)	Center console	29-2	04-5
X658	CONNECTOR (6-PINS, YELLOW)	Center console	29-1	04-5
X660	CONNECTOR (6-PINS, BLACK)	LH front door in door at key lock assembly		04-5
X662	CONNECTOR (6-PINS, GRAY)	Below RH side of dash center console right	28-3	04-5
X663	CONNECTOR (6-PINS, GRAY)	Below RH side of dash		04-5

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X669	CONNECTOR (6-PINS, GRAY)	Below LH side of dash RH side of steering column	28-2	04-5
X679	CONNECTOR (2-PINS, WHITE)	Below RH side of rear seat	20-1	
X692	CONNECTOR (3-PINS, BLACK)	Center console		02-1
X695	CONNECTOR (10-PINS, BLACK)	Below center console		02-4
X700	CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X701	CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X706	CONNECTOR (2-PINS, BLACK)	Center console	30-2	
X709	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate	09-1	
X710	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate	09-1	
X711	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left	34-2	
X712	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left		
X713	CONNECTOR (2-PINS, BLACK)	Under rear of car LH side of on differential	08-1	
X714	CONNECTOR (2-PINS, GRAY)	In lower LH rear door behind trim panel		
X720	CONNECTOR (2-PINS, GRAY)	In lower RH rear door behind trim panel		
X726	CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X727	CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X728	CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X729	CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X732	CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet		03-3
X733	CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet		03-3

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X734 ..	CONNECTOR (2-PINS, (---))	Under RH front seat		
X735 ..	CONNECTOR (2-PINS, (---))	Under RH front seat		
X736 ..	CONNECTOR (2-PINS, (---))	Under RH front seat		
X737 ..	CONNECTOR (2-PINS, (---))	Under RH front seat		
X740 ..	CONNECTOR (4-PINS, BLACK)	Under RH front seat	31-3	03-3
X741 ..	CONNECTOR (4-PINS, BLACK)	Under RH front seat	31-3	03-3
X742 ..	CONNECTOR (2-PINS, YELLOW)	RH front door in door at key lock assembly		
X744 ..	CONNECTOR (2-PINS, GRAY)	RH front door behind door panel	31-1	
X746 ..	CONNECTOR (2-PINS, BLACK)	RH front door behind door panel	31-1	
X747 ..	CONNECTOR (2-PINS, YELLOW)	LH front door in door at key lock assembly	31-2	
X749 ..	CONNECTOR (4-PINS, BLACK)	In upper LH front door	30-3	03-3
X751 ..	CONNECTOR (2-PINS, WHITE)	LH front door in door at key lock assembly	31-2	
X752 ..	CONNECTOR (2-PINS, GRAY)	LH front door in door at key lock assembly	31-2	
X757 ..	CONNECTOR (2-PINS, BLACK)	LH front door	30-3	
X768 ..	CONNECTOR (2-PINS, WHITE)	In the engine compartment near LH headlight assembly	08-2	
X769 ..	CONNECTOR (2-PINS, WHITE)	In the engine compartment near RH headlight assembly	08-2	
X770 ..	CONNECTOR (2-PINS, YELLOW)	Front RH side of engine compartment	15-1	
X771 ..	CONNECTOR (2-PINS, BLACK)	RH side of LH footwell LH side of IHKR Plenum	27-1	
X772 ..	CONNECTOR (2-PINS, WHITE)	Center console		
X773 ..	CONNECTOR (2-PINS, WHITE)	Center console		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X774	CONNECTOR (1-PINS, GRAY)	Rear of engine compartment behind RH fresh air cowl		
X778	CONNECTOR (3-PINS, BLACK)	In LH front seat belt buckle	23-2	01-1
X779	CONNECTOR (2-PINS, BLACK)	LH side of glove box (glove box removed)	25-1	
X782	CONNECTOR (2-PINS, BLACK)	Behind glove box (glove box removed)	32-1	
X783	CONNECTOR (2-PINS, ORANGE)	Underside of steering column		10-1
X786	CONNECTOR (2-PINS, BLACK)	UNDERHOOD LIGHT, E20		
X816	CONNECTOR (2-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X817	CONNECTOR (1-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X904	CONNECTOR (4-PINS, GRAY)	Behind center of dashboard	28-1	03-3
X905	CONNECTOR (5-PINS, BLACK)	Behind center of dashboard		
X998	CONNECTOR (4-PINS, BLACK)	Below center console		03-1
X999	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard LH side of IHKR Plenum		03-1
X1001	CONNECTOR (4-PINS, BLACK)	RIGHT REAR SPEAKER, H45		03-3
X1002	CONNECTOR (4-PINS, (---))	LEFT REAR SPEAKER, H46		03-3
X1014	CONNECTOR (1-PINS, BLACK)	Center console near gearshift lever	29-2	
X1070	CONNECTOR (18-PINS, BLACK)	Center console	03-1	01-5
X1071	CONNECTOR (18-PINS, NATURAL)	Center console	03-1	01-5
X1074	CONNECTOR (15-PINS, WHITE)	Below LH side of dash	00-3	00-3
X1075	CONNECTOR (15-PINS, BLACK)	Below LH side of dash	00-3	00-3
X1082	CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		03-6

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1161	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X1162	CONNECTOR (2-PINS, BLACK)	Near brake master cylinder	18-3	
X1165	GROUND	Below LH side of dash	07-1	
X1166	GROUND	Behind RH footwell trim above	07-3	
X1171	CONNECTOR (55-PINS, BLACK)	Behind glove box (glove box removed)	01-3	00-1
X1176	CONNECTOR (25-PINS, BLACK)	LH side of engine compartment		05-3
X1178	CONNECTOR (2-PINS, WHITE)	Below center console LH side of gearshift selector		
X1193	CONNECTOR (3-PINS, BLACK)	Center console RH side of gearshift selector		01-1
X1213	CONNECTOR (2-PINS, BLACK)	Center console	30-2	
X1239	CONNECTOR (2-PINS, BLACK)	RH C-Pillar		
X1240	CONNECTOR (2-PINS, BLACK)	LH C-Pillar		
X1241	CONNECTOR (2-PINS, NATURAL)	Below LH side of rear seat	21-1	
X1242	CONNECTOR (26-PINS, BLACK)	Behind glove box (glove box removed)	01-1	00-2
X1243	CONNECTOR (6-PINS, BLACK)	Center console near gearshift lever	30-1	04-2
X1245	CONNECTOR (1-PINS, BLACK)	Above LH sun visor		
X1246	CONNECTOR (1-PINS, BLACK)	Above RH sun visor		
X1380	CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X1381	CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X1426	CONNECTOR (1-PINS, BROWN)	Rear RH side of engine compartment in E-Box		
X5013	CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X5013	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X5020	CONNECTOR (2-PINS, BLACK)	Front of engine compartment (M3)		
X5021	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X5022	CONNECTOR (3-PINS, BLACK)	Front of engine compartment (M3)	12-2	07-3
X5023	CONNECTOR (3-PINS, BLACK)	RH front of engine (M3)	12-1	07-3
X5023	CONNECTOR (3-PINS, BLACK)	Front of engine compartment		07-3
X5024	CONNECTOR (15-PINS, WHITE)	Rear RH side of engine compartment	04-3	01-3
X5028	CONNECTOR (4-PINS, BLACK)	Lower LH side of engine (M3)		03-4
X5029	CONNECTOR (10-PINS, BLACK)	Front LH side of engine compartment in Front Power Distribution Box		09-1
X5032	CONNECTOR (15-PINS, BLACK)	Front of engine compartment		00-3
X6000	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment	00-1	06-1
X6002	CONNECTOR (20-PINS, BLACK)	Rear RH side of engine compartment	05-1	04-4
X6101	CONNECTOR (2-PINS, BLACK)	On throttle body (M3)	11-2	
X6101	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6102	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6103	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6104	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6105	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6106	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6120	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment right of LH side shock tower	20-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6130	CONNECTOR (3-PINS, GRAY)	RH front of engine below intake manifold (325i)	11-3	07-3
X6130	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment (M3)	14-3	
X6133	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X6151	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6152	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6153	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6154	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6155	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6156	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6200	CONNECTOR (4-PINS, BLACK)	Under center of car	15-3	03-4
X6203	CONNECTOR (3-PINS, BLACK)	Front of engine below intake manifold (M3)	12-2	07-4
X6204	CONNECTOR (3-PINS, BLACK)	Front of engine below intake manifold (M3)	12-2	07-3
X6205	CONNECTOR (2-PINS, BLACK)	LH side of engine (near oil level stick)	13-3	
X6208	CONNECTOR (2-PINS, BLACK)	Front of engine CAMSHAFT ACTUATOR, B6208		
X6209	CONNECTOR (3-PINS, BLACK)	Front of engine HALL EFFECT CAMSHAFT SENSOR, B6209		
X6217	CONNECTOR (4-PINS, GRAY)	Top front of engine		07-2
X6231	CONNECTOR (2-PINS, BROWN)	RH front of engine below intake manifold (near oil level stick) (325i)	11-1	
X6231	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment (near oil level stick) (M3)	14-2	
X6231	CONNECTOR (2-PINS, BROWN)	RH front of engine below intake manifold (318i)	17-1	
X6232	CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (325i)	11-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6232	CONNECTOR (2-PINS, BLACK)	RH front of engine (M3)	12-1	
X6232	CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (318i)	17-2	
X6233	CONNECTOR (7-PINS, BLACK)	LH side of engine compartment right of LH side shock tower		04-3
X6236	CONNECTOR (2-PINS, BLUE)	RH front of engine below intake manifold (325i)	11-1	
X6236	CONNECTOR (2-PINS, BLUE)	RH front of engine (M3)	12-1	
X6236	CONNECTOR (2-PINS, BLUE)	RH front of engine below intake manifold (318i)	17-2	
X6238	CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-2	
X6241	CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6241	CONNECTOR (3-PINS, BLACK)	LH side of engine (318i)	16-3	07-5
X6242	CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-1	07-3
X6242	CONNECTOR (3-PINS, BLACK)	LH side of engine (318i)	16-3	07-5
X6243	CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6252	CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	11-2	07-3
X6252	CONNECTOR (3-PINS, BLACK)	LH side of engine (near oil level stick) (320i-325i)	13-3	07-3
X6300	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6301	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6303	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6307	CONNECTOR (10-PINS, BLACK)	Front of engine compartment		09-1
X6454	GROUND	Rear RH side of engine compartment back of RH side shock tower	06-2	
X6456	GROUND	RH front of engine (325i)	11-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6509	CABLE SOCKET ALTERNATOR B+	Front LH side of engine compartment	05-2	
X6510	CABLE SOCKET STARTER TERMINAL 50	Rear LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET ALTERNATOR TERMINAL 30h	Rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	Rear LH side of engine compartment below intake manifold		
X7000	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment	00-1	06-1
X7509	CABLE SOCKET ALTERNATOR TERMINAL D+	Front LH side of engine compartment below		
X8500	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment	00-1	00-1
X8503	CONNECTOR (10-PINS, WHITE)	Center console RH side of gearshift selector	30-1	02-4
X8507	CONNECTOR (1-PINS, BLACK)	Below LH side of dash		
X8511	CONNECTOR (2-PINS, BLACK)	Under front of car LH side of transmission		
X8516	CONNECTOR (2-PINS, BLACK)	Under center of car above		
X8521	CONNECTOR (9-PINS, BLACK)	Under center of car above		
X9997	CONNECTOR (2-PINS, ORANGE)	Behind steering wheel	24-1	
X10012	GROUND	Behind RH footwell trim above	07-3	
X10013	CONNECTOR (1-PINS, (---))	Top of steering column		
X10015	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10016	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X10017	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10018	CONNECTOR (32-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10026	CONNECTOR (6-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10030	CONNECTOR (5-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10031	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		03-6
X10034	CONNECTOR (2-PINS, (---))	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10035	CONNECTOR (2-PINS, (---))	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10036	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10054	CONNECTOR (12-PINS, BLACK)	Below LH side of dash RH side of steering column	27-1	02-6
X10065	CONNECTOR (2-PINS, WHITE)	LH side of LH footwell under footrest		
X10070	CONNECTOR (2-PINS, GRAY)	Near LH headlight assembly		
X10071	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly		
X10074	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly		
X10075	CONNECTOR (2-PINS, GRAY)	Near RH headlight assembly		
X10092	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)	25-2	03-6
X10094	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X10098	CONNECTOR (1-PINS, (---))	Front RH side of engine compartment		
X10099	CONNECTOR (1-PINS, (---))	Front RH side of engine compartment		
X10182	CONNECTOR (18-PINS, BLACK)	Behind glove box (glove box removed)		01-5
X10193	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)		03-6
X10218	CONNECTOR (3-PINS, NATURAL)	Under RH front seat		01-1
X10223	CONNECTOR (3-PINS, BLACK)	Left in convertible top compartment	21-3	04-6
X10224	CONNECTOR (2-PINS, BLACK)	Left in convertible top compartment	21-3	
X10225	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid		01-1
X10226	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)	25-2	03-6
X10238	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X10239	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		09-4
X10240	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		01-1
X10244	CONNECTOR (1-PINS, BLACK)	Below LH side of dash		
X10250	CONNECTOR (2-PINS, (---))	Behind LH footwell speaker grille		
X11205	CONNECTOR (2-PINS, BLACK)	In convertible top compartment behind rear seats		
X11209	CONNECTOR (2-PINS, BLACK)	In convertible top compartment behind rear seats		
X11211	CONNECTOR (2-PINS, (---))	In convertible top compartment		
X13004	GROUND	In upper RH rear seatback	06-1	
X13006	GROUND	In upper LH rear seatback		
X13009	GROUND	Behind RH footwell trim above	07-3	
X13016	GROUND	Below LH side of dash	07-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X13025	CONNECTOR (12-PINS, BLACK)	Behind glove box (glove box removed)	01-3	02-6
X13026	CONNECTOR (1-PINS, BLACK)	LH side of dash		
X13044	CONNECTOR (12-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	01-3
X13045	CONNECTOR (6-PINS, GREEN)	Center console		05-3
X13079	CONNECTOR (3-PINS, YELLOW)	Behind rear seats, left		01-1
X13142	CONNECTOR (2-PINS, WHITE)	Behind rear seats	21-2	
X13143	CONNECTOR (3-PINS, BLACK)	Behind rear seats, left		01-1
X13145	CONNECTOR (6-PINS, BLACK)	In LH side of luggage compartment	34-3	04-2
X13145	CONNECTOR (6-PINS, BLACK)	In convertible top compartment		04-2
X13146	CONNECTOR (2-PINS, BLACK)	In LH side of luggage compartment	34-1	
X13152	CONNECTOR (4-PINS, BLACK)	In LH side of luggage compartment	34-1	07-6
X13156	CONNECTOR (10-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	11-4
X13157	CONNECTOR (6-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	05-3
X13159	CONNECTOR (26-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	00-2
X13226	CONNECTOR (2-PINS, BLACK)	Behind rear seats		
X13227	CONNECTOR (2-PINS, BLACK)	Behind rear seats		
X13230	GROUND	Behind RH footwell trim above	07-3	
X13252	CONNECTOR (15-PINS, YELLOW)	Behind glove box (glove box removed)	01-1	00-3
X13253	CONNECTOR (26-PINS, YELLOW)	Behind glove box (glove box removed)	01-1	00-2
X13254	CONNECTOR (26-PINS, GREEN)	Behind glove box (glove box removed)	01-1	00-2

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X13255	CONNECTOR (12-PINS, NATURAL)	Behind glove box (glove box removed)		01-3
X13256	CONNECTOR (2-PINS, GRAY)	Left from LH rear seat behind trim panel	22-1	
X13257	CONNECTOR (2-PINS, GRAY)	RH side of RH rear seat behind trim panel	22-1	
X13258	CONNECTOR (15-PINS, WHITE)	Behind glove box (glove box removed)	25-2	00-3
X13262	CONNECTOR (6-PINS, BLUE)	Center console		05-3
X13263	CONNECTOR (2-PINS, BLACK)	Above glove box (glove box removed)	25-1	
X18080	CONNECTOR (1-PINS, NATURAL)	In luggage compartment		
X18126	CONNECTOR (17-PINS, BLACK)	Center console behind radio		02-3
X18154	CONNECTOR (26-PINS, BLUE)	Center console		00-2
X18155	CONNECTOR (26-PINS, WHITE)	Center console	03-2	00-2
X18156	CONNECTOR (26-PINS, BLACK)	Center console	03-2	00-2
X18157	CONNECTOR (26-PINS, BLUE)	Center console	03-2	00-2
X18180	CONNECTOR (3-PINS, WHITE)	In RH rear side of luggage compartment	03-3	02-1
X18196	CONNECTOR (10-PINS, BLACK)	Driver's door LEFT FRONT HIGH RANGE SPEAKER, H59		02-4
X18198	CONNECTOR (10-PINS, BLACK)	Passenger's door RIGHT FRONT HIGH RANGE SPEAKER, H50		02-4
X18277	CONNECTOR (2-PINS, BLACK)	LH front door	31-2	
X18295	CONNECTOR (2-PINS, YELLOW)	In lower RH B-pillar behind trim panel		
X18296	CONNECTOR (2-PINS, YELLOW)	LH front door	31-2	
X18336	CONNECTOR (3-PINS, BLACK)	Above glove box (glove box removed)	25-1	01-1

COMPONENT LOCATION CHART

COMPONENT

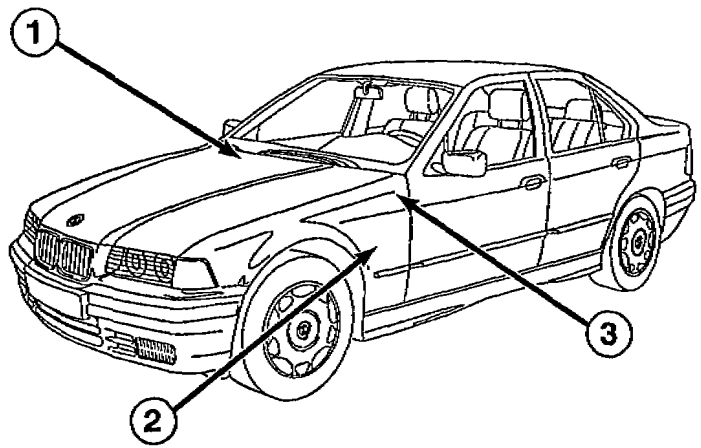
			PAGE – FIGURE 7100.0	8500.0
X18500	CONNECTOR (25-PINS, (---))	Center console		
X18507	CONNECTOR (2-PINS, (---))	Center console		
X18509	CONNECTOR (8-PINS, (---))	Center console		
X18515	CONNECTOR (2-PINS, (---))	LH side of LH footwell behind trim panel		
X18518	CONNECTOR (3-PINS, BLACK)	Under RH front seat		01-1
X18520	CONNECTOR (10-PINS, (---))	Center console RADIO, N9		
X18521	CONNECTOR (10-PINS, (---))	RH side of luggage compartment CD CHANGER, N22		
X18723	GROUND	Below LH side of dash		
X18741	CONNECTOR (4-PINS, (---))	Center of dash MICROPHONE, B400		
X18797	CONNECTOR (1-PINS, NATURAL)	In RH rear side of luggage compartment		
X18798	CONNECTOR (1-PINS, NATURAL)	In RH rear side of luggage compartment		
Y1	ABS HYDRAULIC UNIT	Rear LH side of engine compartment back of LH side shock tower	16-2	
Y2	AIR CONDITIONING COMPRESSOR	Front of engine		
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment	16-2	
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		
Y19	SHIFT-LOCK	Center console RH side of gearshift selector		
Y1w	ABS HYDRAULIC UNIT	LH side of engine compartment		
Y85	LH ROLLOVER PROTECTION ACTUATOR	Behind rear seats Convertible	02-3	
Y86	RH ROLLOVER PROTECTION ACTUATOR	Behind rear seats Convertible	02-3	

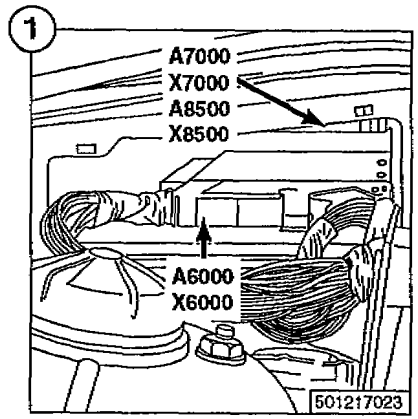
COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
Y5013	CHANGE-OVER VALVE	LH side of engine (M3)	14-2	
Y5020	VARIABLE CAMSHAFT CONTROL VALVE 1	RH front of engine (M3)	11-2	
Y5021	VARIABLE CAMSHAFT CONTROL VALVE 2	Front of engine compartment (M3)		
Y6101	CYL. 1 FUEL INJECTION VALVE	RH front of engine (M3)	11-2	
Y6101	CYL. 1 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6102	CYL. 2 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6103	CYL. 3 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6104	CYL. 4 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6105	CYL. 5 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6106	CYL. 6 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment right of LH side shock tower	20-2	
Y6130	IDLE SPEED CONTROL VALVE	RH front of engine below intake manifold (325i)	11-3	
Y6130	IDLE SPEED CONTROL VALVE	Rear LH side of engine compartment (M3)	14-3	
Y6208	CAMSHAFT ACTUATOR	Front of engine compartment		
Y8505y	TRANSMISSION VALVE UNIT	On LH side of transmission		

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

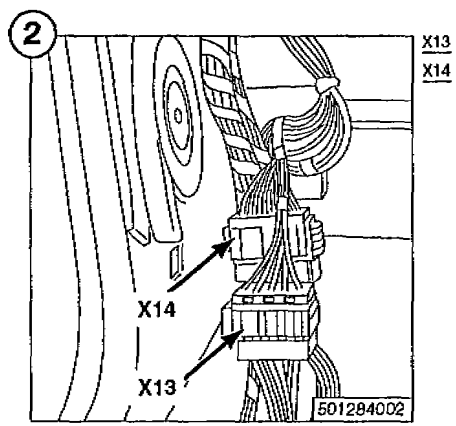




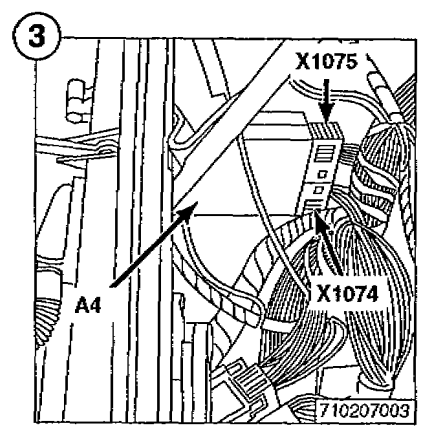
A6000 X6000
ENGINE CONTROL MODULE (DME) X7000 X8500

A7000
TRANSMISSION CONTROL MODULE (EGS)

A6500
TRANSMISSION CONTROL MODULE (EGS)



X13
X14

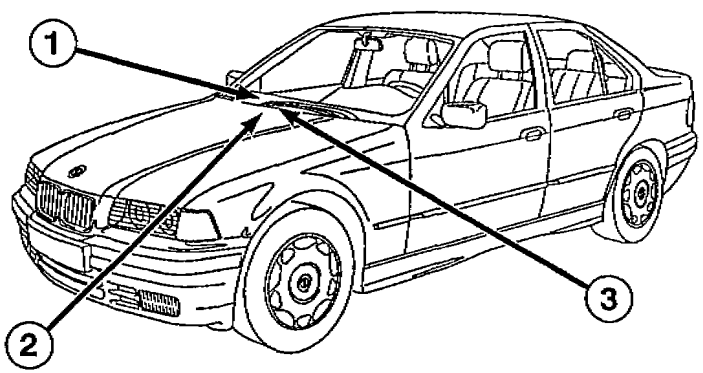


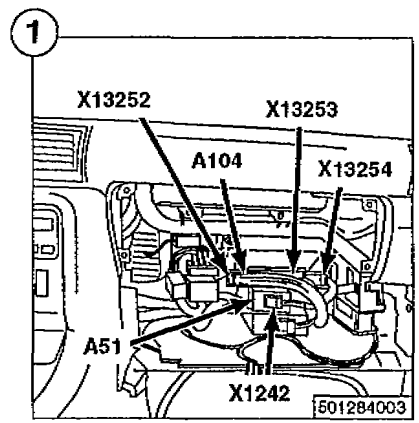
A4
CHECK CONTROL MODULE

X1074
X1075

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

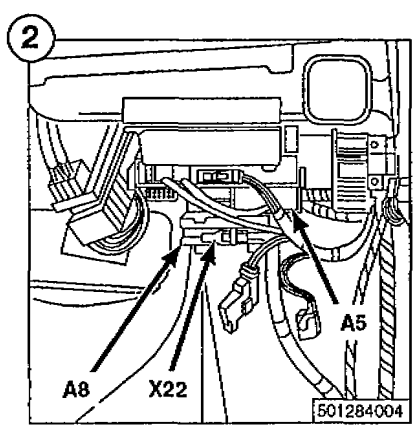




A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)

A51
WIPER/WASHER
MODULE

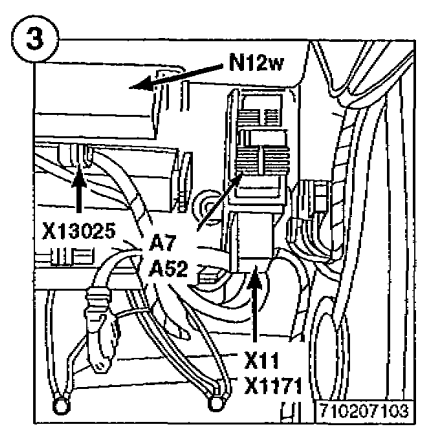
X1242
X13252
X13253
X13254



A5
RELAY MODULE

A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

X22



A7
SLIP CONTROL
MODULE (ABS)

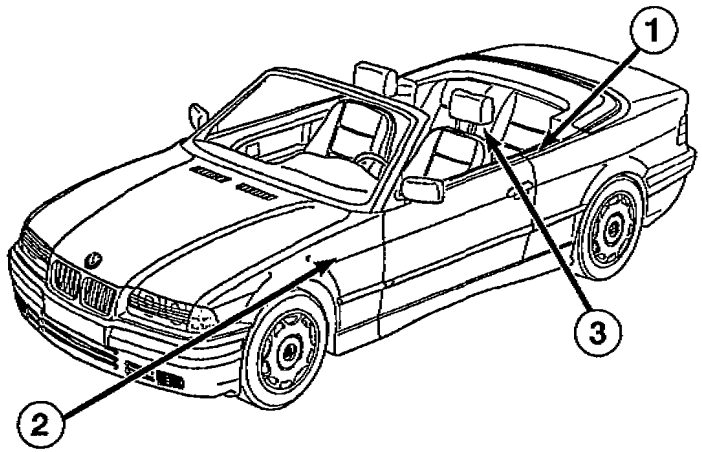
X11
X1171
X13025

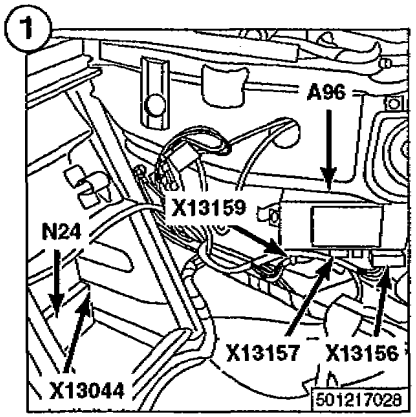
A52
SLIP CONTROL
MODULE
(ABS/ASC)

N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

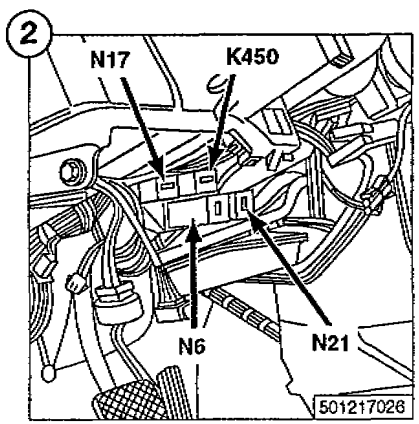




A96
CONVERTIBLE TOP CONTROL MODULE

N24
ROLLOVER SENSOR

X13044
X13156
X13157
X13159

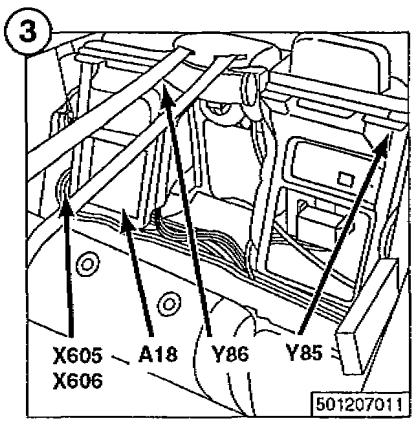


N6
HEADLIGHT/ FOGLIGHT CLEANING MODULE (SRA)

K450
PARK VENTILATION RELAY

N17
CRASH CONTROL MODULE

N21
TWIN RELAY MODULE



A18
HIFI AMPLIFIER

X605
X606

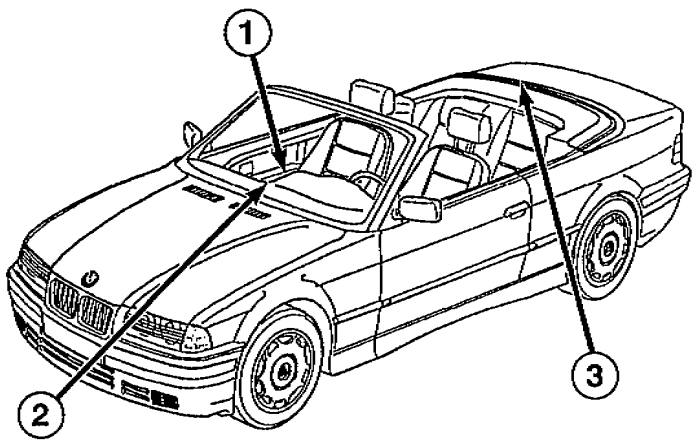
Y85
LH ROLLOVER PROTECTION ACTUATOR

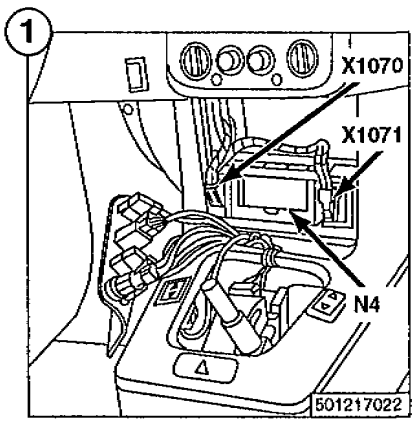
Y86
RH ROLLOVER PROTECTION ACTUATOR

CONVERTIBLE

COMPONENT LOCATION VIEWS

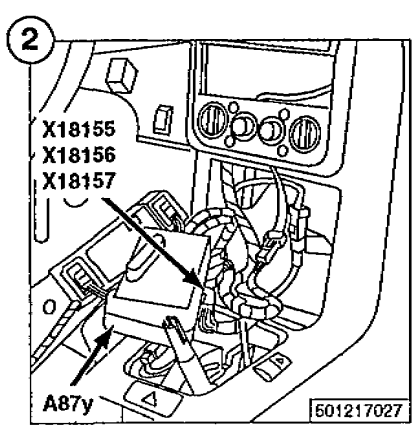
ELECTRICAL CONTROL MODULE LOCATIONS





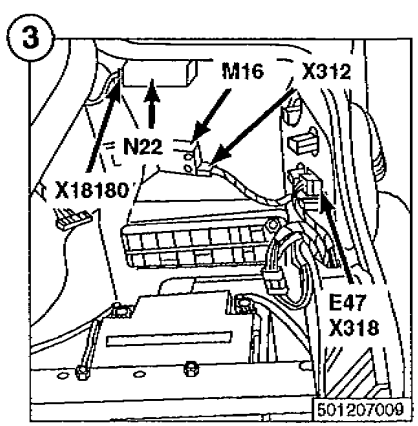
N4
ON-BOARD
COMPUTER

X1070
X1071



A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE

X18155
X18156
X18157



E47
RIGHT TRUNK
LIGHT ASSEMBLY

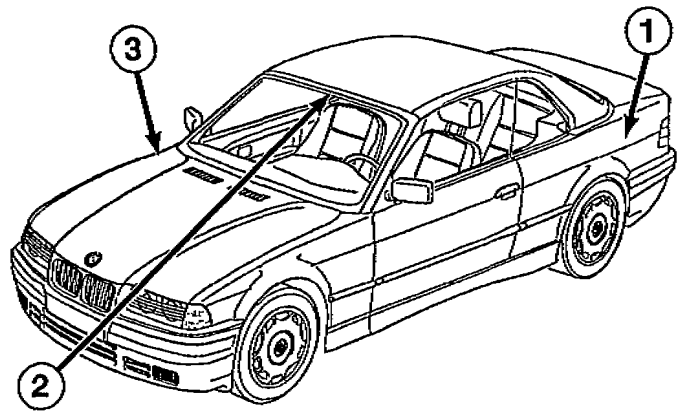
X312
X318
X18180

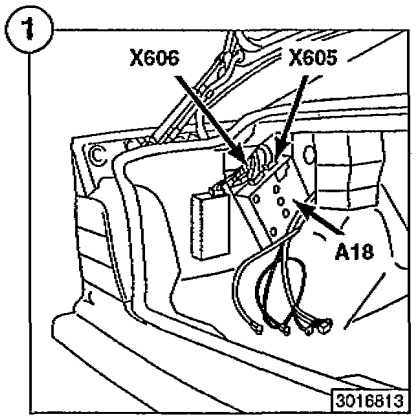
M16
GAS FILLER
LOCK MOTOR

N22
CD CHANGER

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

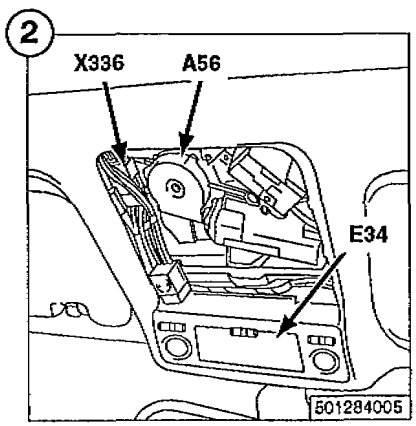




A18
HIFI AMPLIFIER

X605
X606

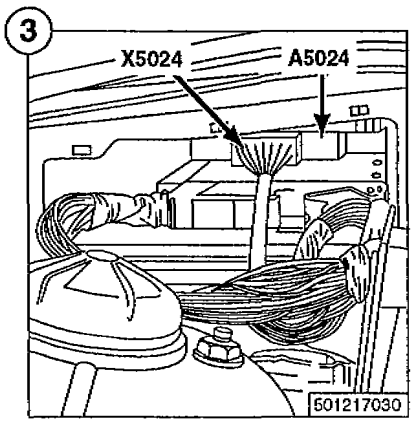
FOUR-DOOR



A56
SUNROOF CONTROL
ASSEMBLY

E34
FRONT DOME
LIGHT/
MAP READING
ASSEMBLY

X338



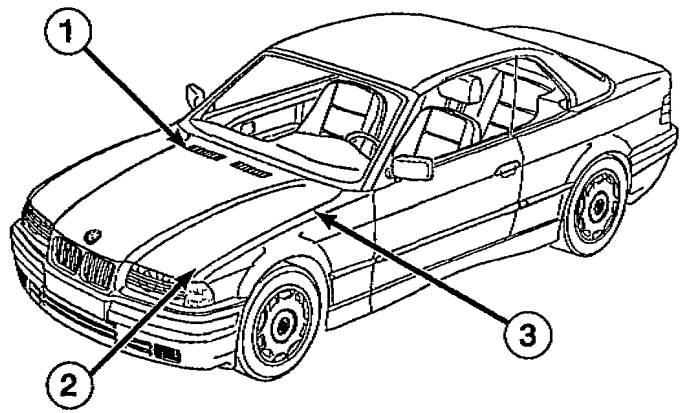
A5024
VARIABLE
CAMSHAFT
CONTROL MODULE
(VANOS)

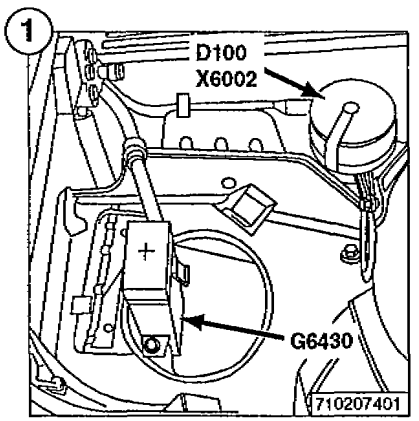
X5024

M3 CDN

COMPONENT LOCATION VIEWS

B(+)

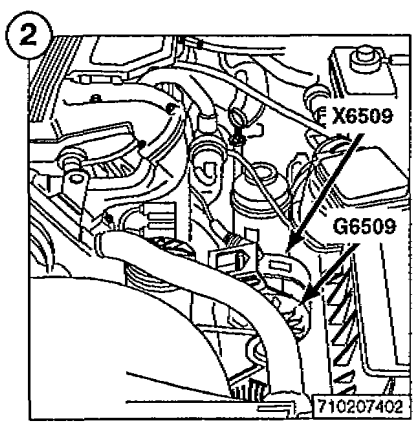




D100
DATA LINK
CONNECTOR

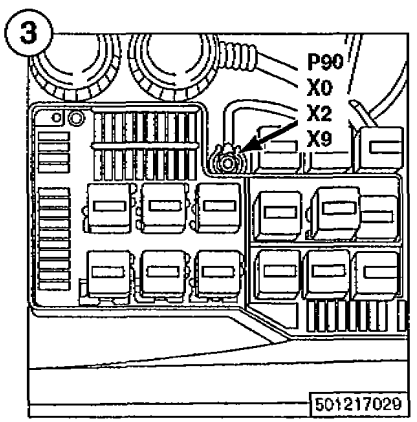
G6430
B+
JUMP START
JUNCTION POINT

X6002



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+



P90
FRONT POWER
DISTRIBUTION
BOX

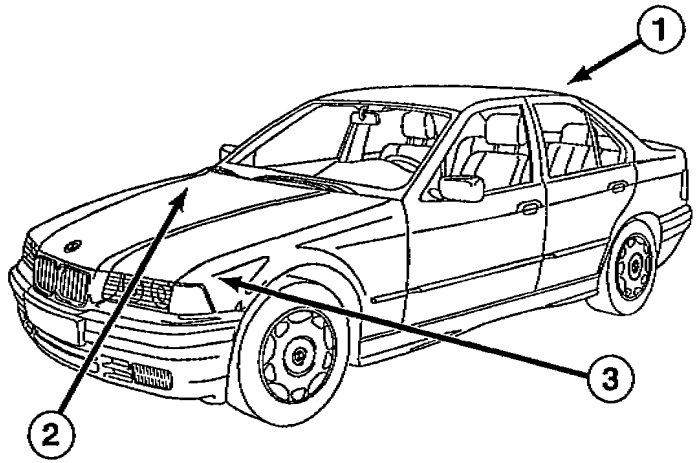
X0
B+
JUNCTION POINT

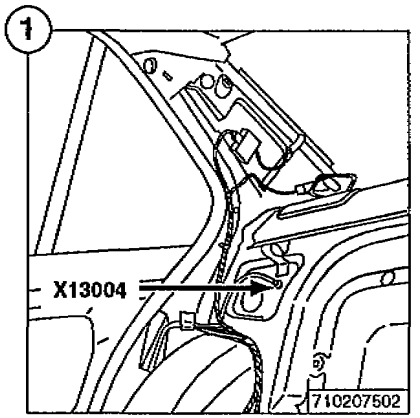
X2
BATTERY
B+ START POINT

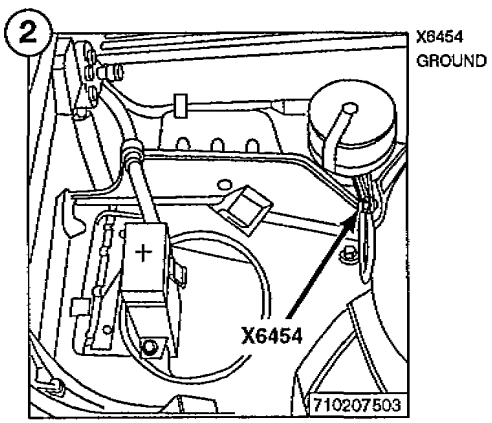
X9
B+
JUNCTION POINT

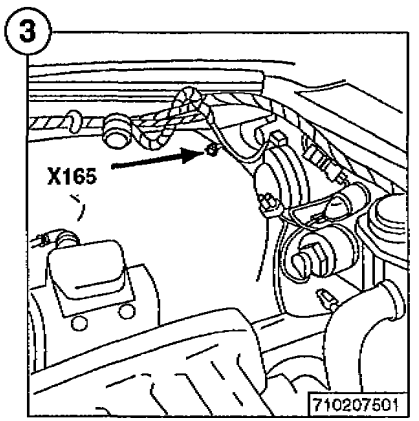
COMPONENT LOCATION VIEWS

B(-)



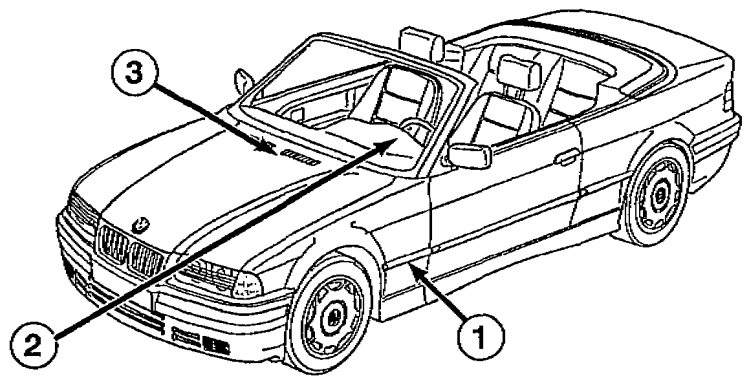


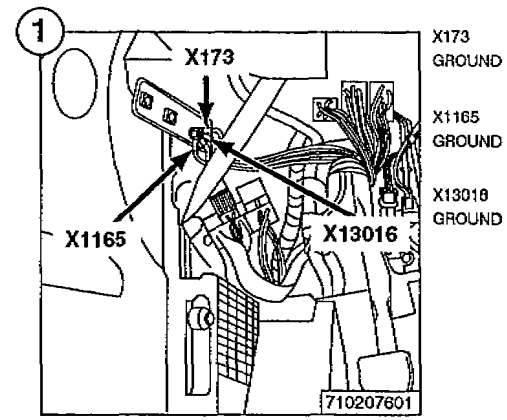


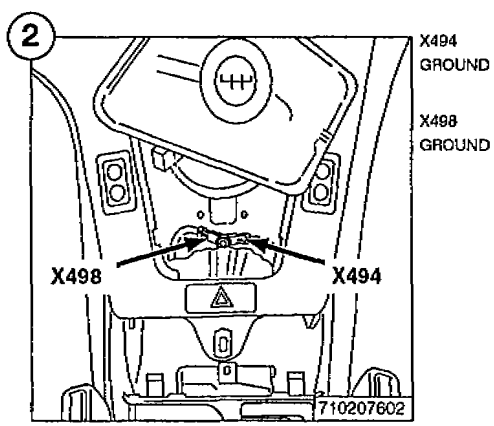


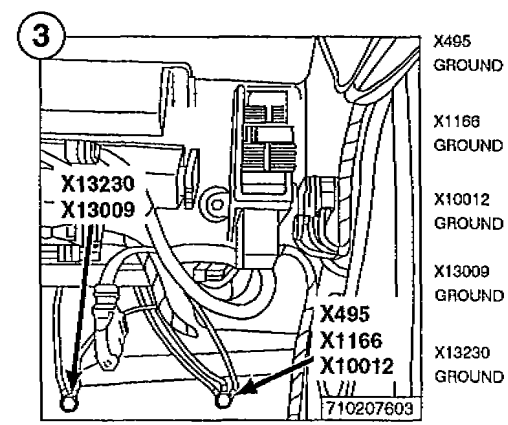
COMPONENT LOCATION VIEWS

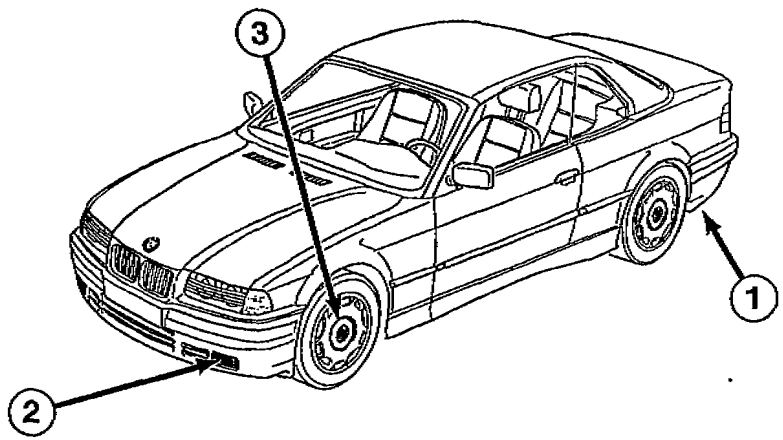
B(-)

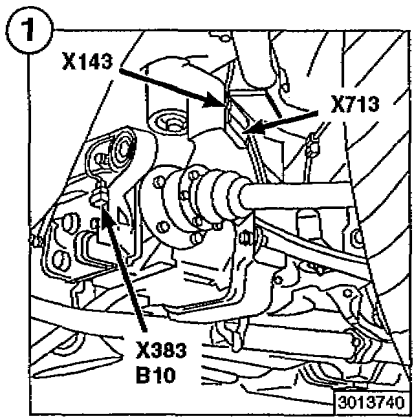






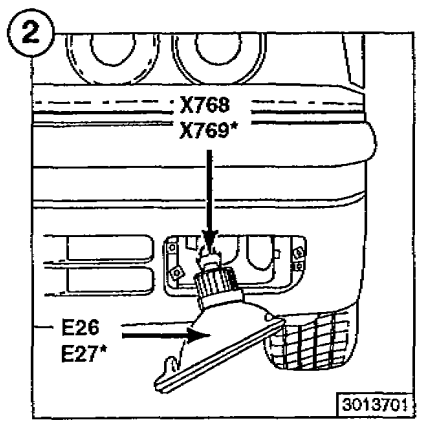






B10
VEHICLE
SPEED SENSOR

X143
X383
X713

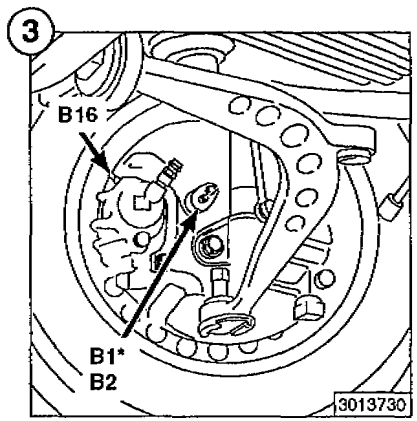


E26
LEFT
FOG LIGHT

E27 *
RIGHT
FOG LIGHT

X768
X769 *

* RH similar



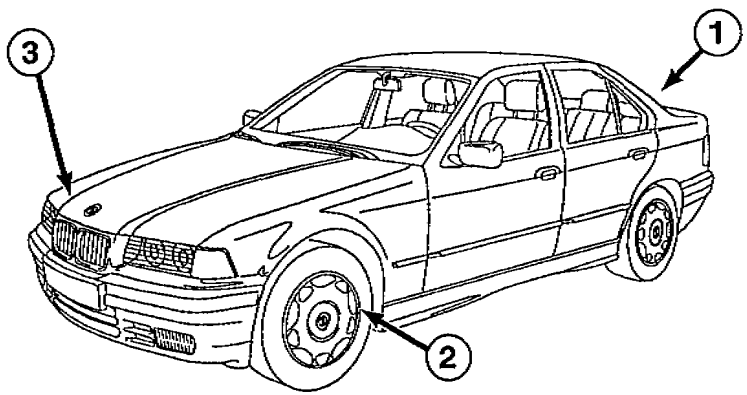
B1 *
RIGHT FRONT
SPEED SENSOR
- ABS

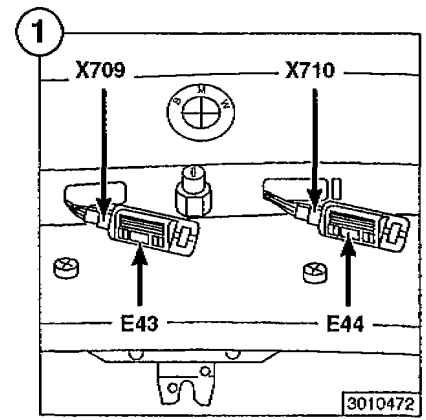
B2
LEFT FRONT
SPEED SENSOR
- ABS

B16
LEFT FRONT
BRAKE PAD
SENSOR

* RH similar

COMPONENT LOCATION VIEWS

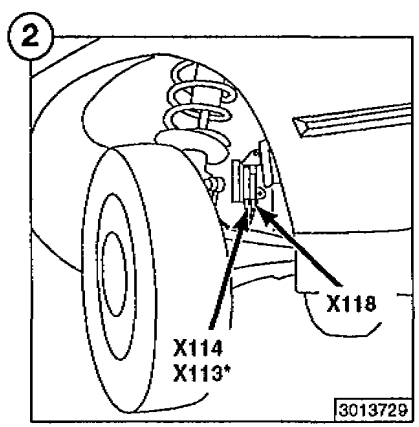




E43
LEFT
LICENSE PLATE
LIGHT

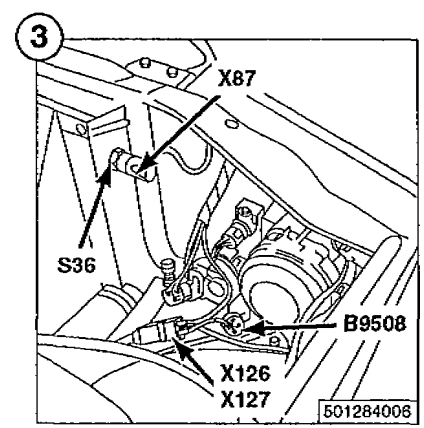
E44
RIGHT
LICENSE PLATE
LIGHT

X709
X710



X113 *
X114
X118

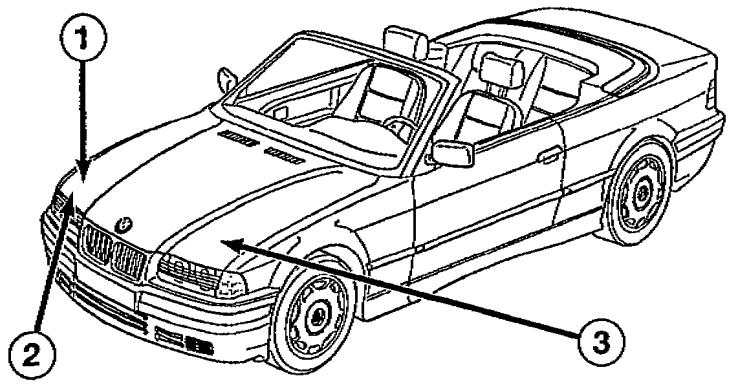
* RH similar

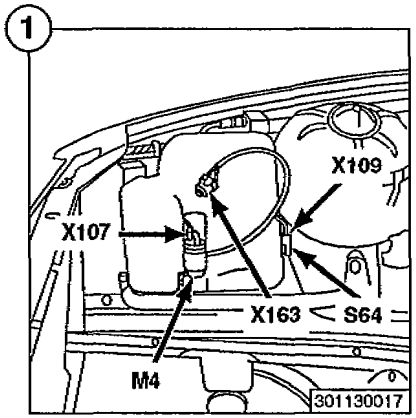


B9508
PRESSURE
SWITCH

S36
TEMPERATURE
SWITCH

X87
X126
X127

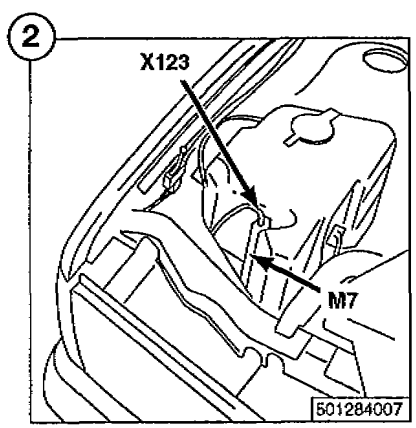




M4
WASHER PUMP

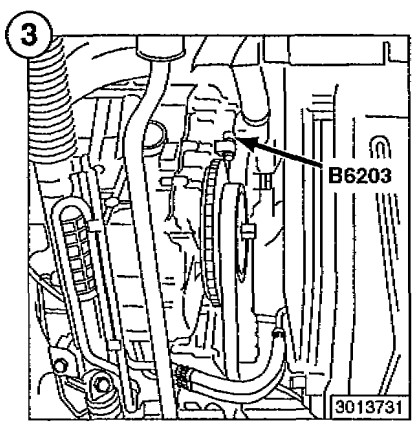
S64
WASHER
FLUID LEVEL
SWITCH

X107
X109
X163



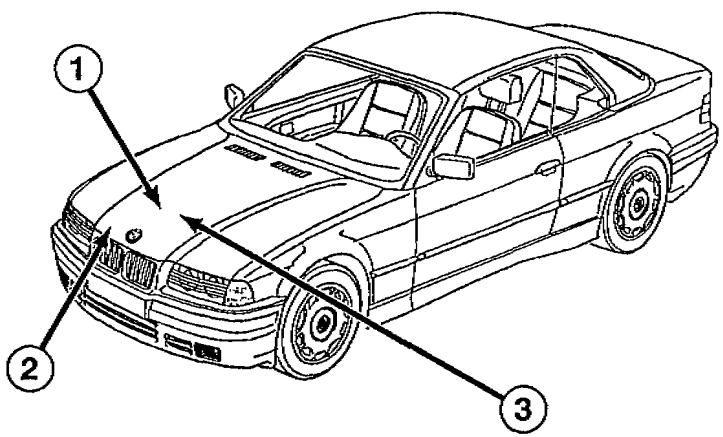
M7
HEADLIGHT/
FOG LIGHT
WASHER PUMP

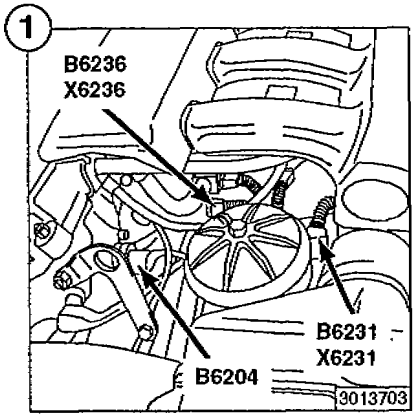
X123



B6203
CRANKSHAFT
POSITION/RPM
SENSOR

COMPONENT LOCATION VIEWS



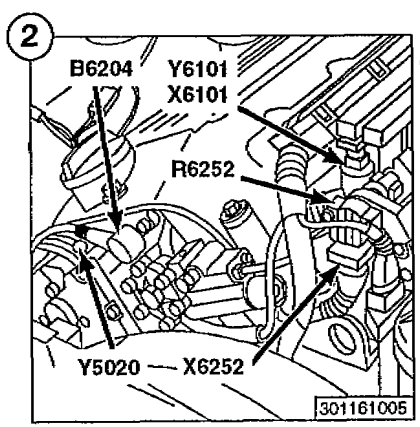


325I

B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) — X6231, X6236

B6231 OIL PRESSURE SWITCH

B6236 ENGINE COOLANT TEMPERATURE SENSOR

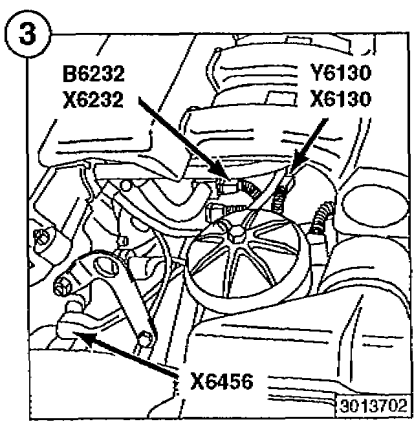


M3

B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) — Y6101 CYL. 1 FUEL INJECTION VALVE

R6252 THROTTLE POSITION SENSOR — X6101, X6252

Y5020 VARIABLE CAMSHAFT CONTROL VALVE 1

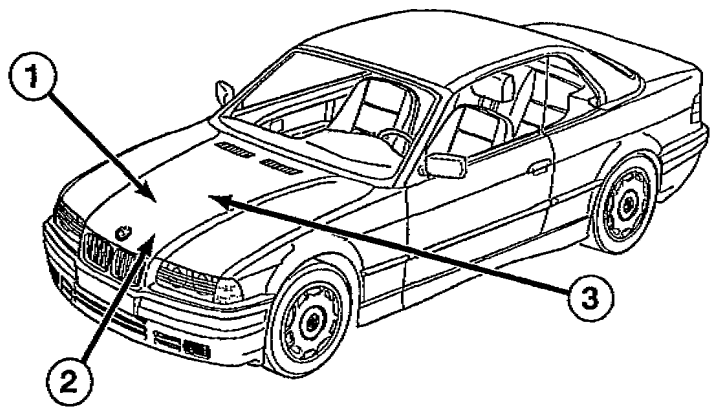


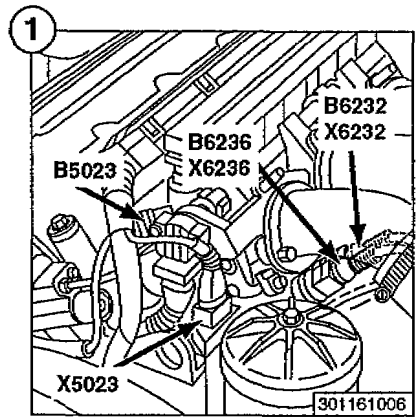
325I

B6232 ENGINE COOLANT TEMPERATURE SENSOR

Y6130 IDLE SPEED CONTROL VALVE

X6456 GROUND — X6130, X6232



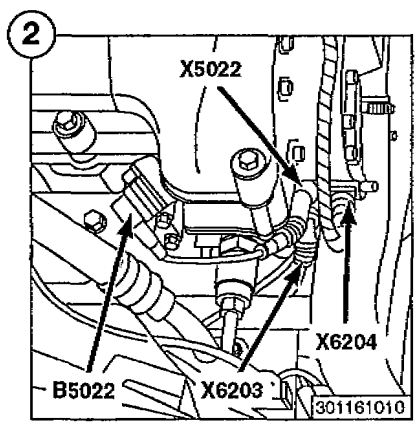


B5023 VARIABLE CAM-SHAFT CONTROL SENSOR 2 — X5023, X6232, X6236

B6232 ENGINE COOLANT TEMPERATURE SENSOR

B6236 ENGINE COOLANT TEMPERATURE SENSOR

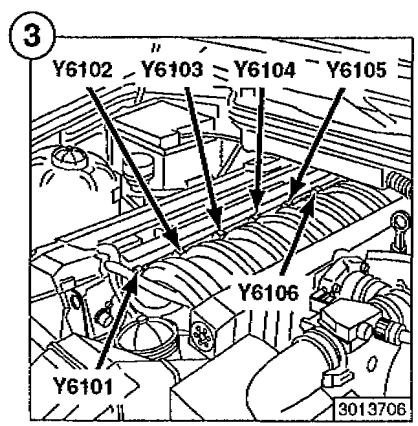
M3



B5022 VARIABLE CAM-SHAFT CONTROL SENSOR 1

X5022
X6203
X6204

M3



Y6101 CYL. 1 FUEL INJECTION VALVE

Y6102 CYL. 2 FUEL INJECTION VALVE

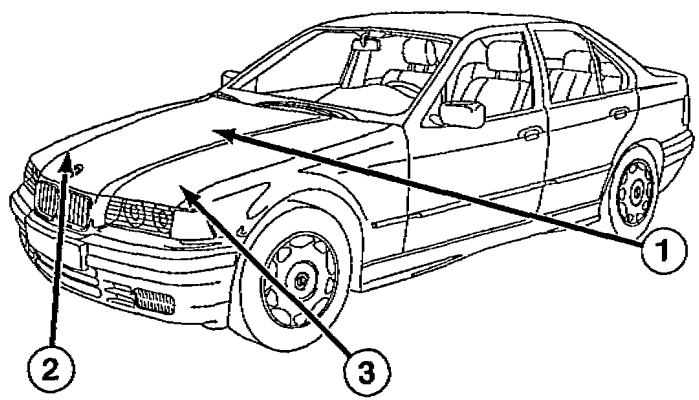
Y6103 CYL. 3 FUEL INJECTION VALVE

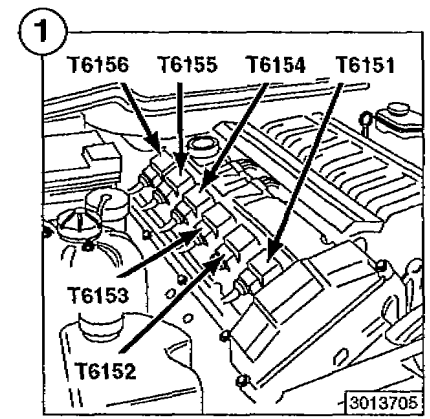
Y6104 CYL. 4 FUEL INJECTION VALVE

Y6105 CYL. 5 FUEL INJECTION VALVE

Y6106 CYL. 6 FUEL INJECTION VALVE

COMPONENT LOCATION VIEWS





T6151
CYL. 1 IGNITION COIL

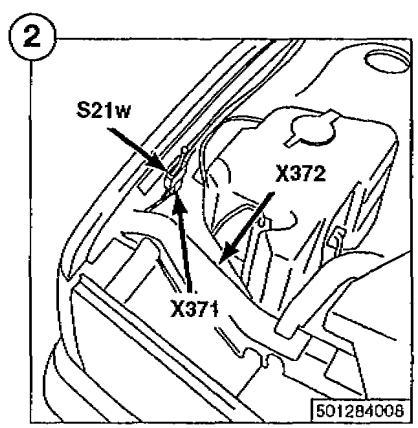
T6154
CYL. 4 IGNITION COIL

T6152
CYL. 2 IGNITION COIL

T6155
CYL. 5 IGNITION COIL

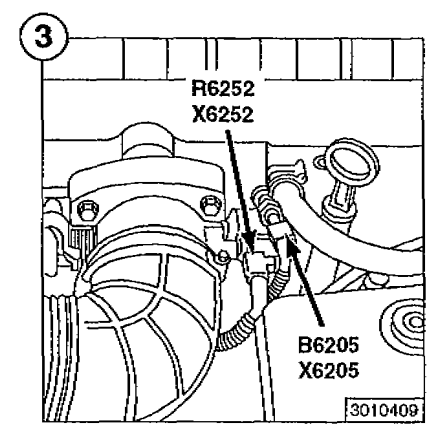
T6153
CYL. 3 IGNITION COIL

T6156
CYL. 6 IGNITION COIL



S21w
ENGINE HOOD SWITCH

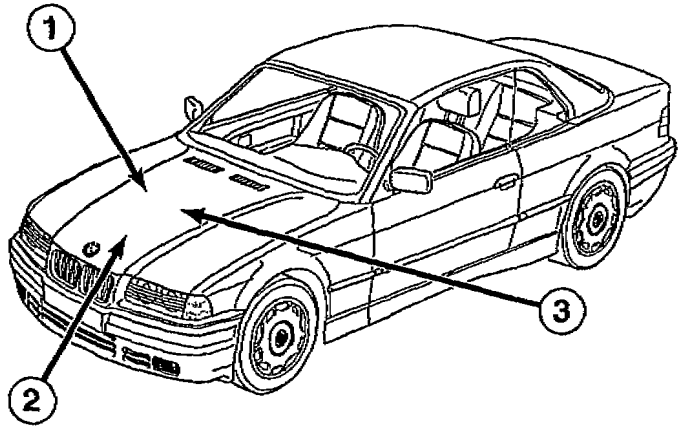
X371
X372

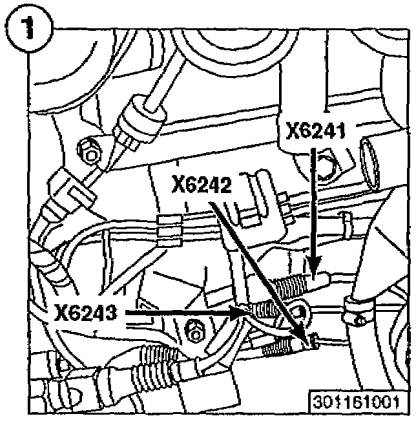


B6205
INTAKE AIR TEMPERATURE SENSOR

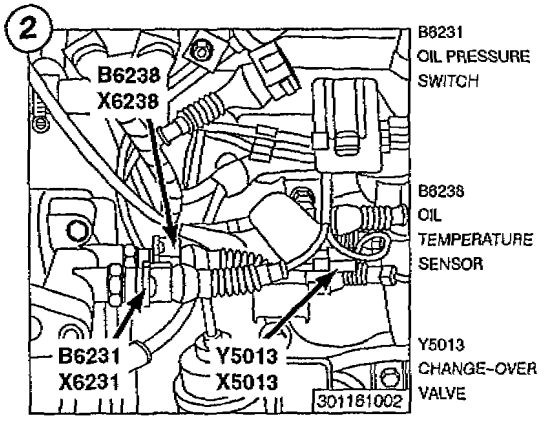
R6252
THROTTLE POSITION SENSOR

X6205
X6252





M3

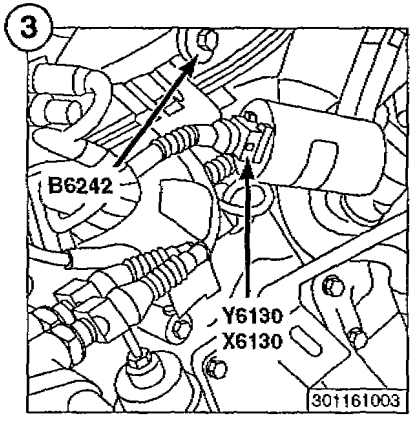


B6231 OIL PRESSURE SWITCH — X5013, X6231, X6238

B6238 OIL TEMPERATURE SENSOR

Y5013 CHANGE-OVER VALVE

M3

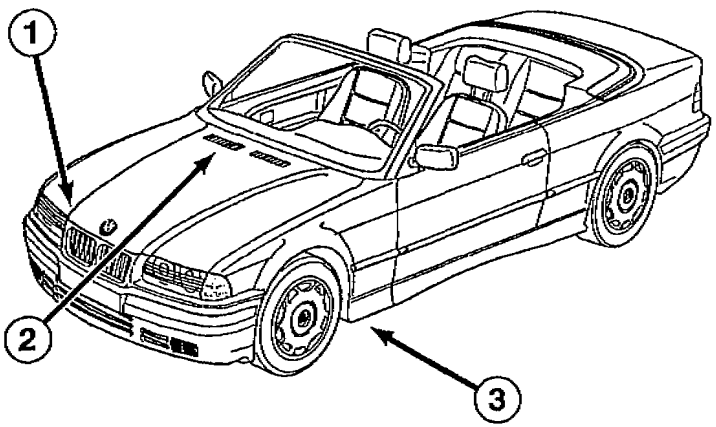


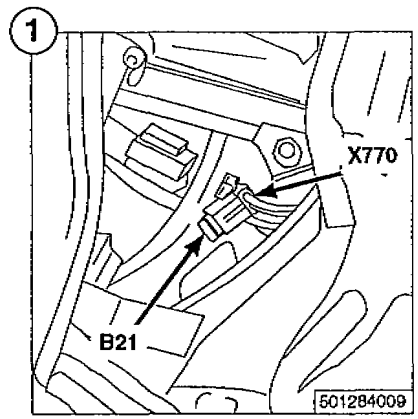
B6242 CYL 3-4 KNOCK SENSOR

Y6130 IDLE SPEED CONTROL VALVE — X6130

M3

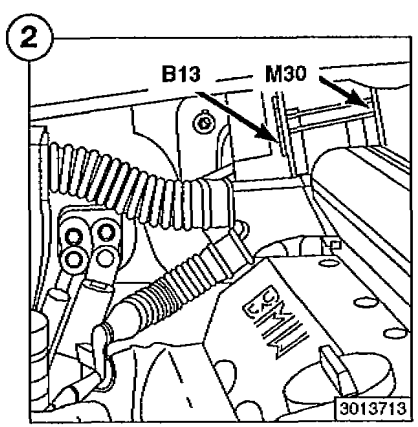
COMPONENT LOCATION VIEWS





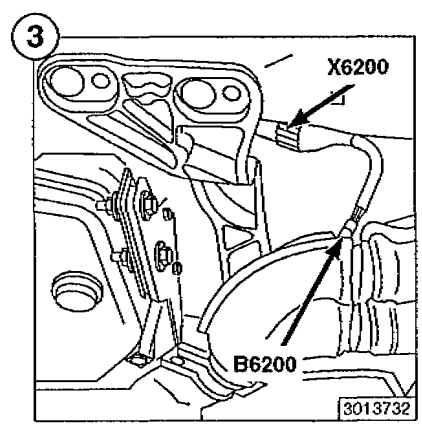
B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



B13
OUTSIDE
TEMPERATURE
SENSOR

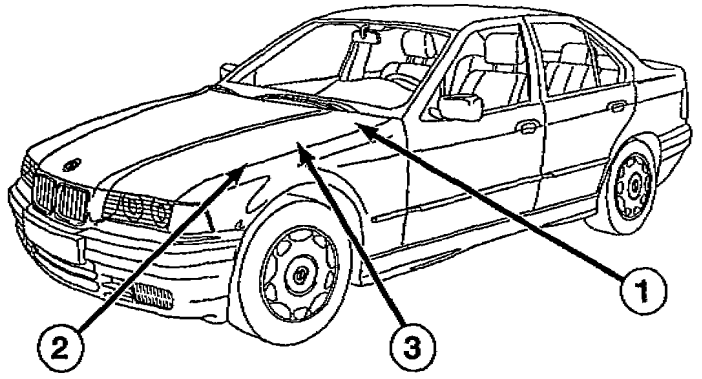
M30
BLOWER MOTOR

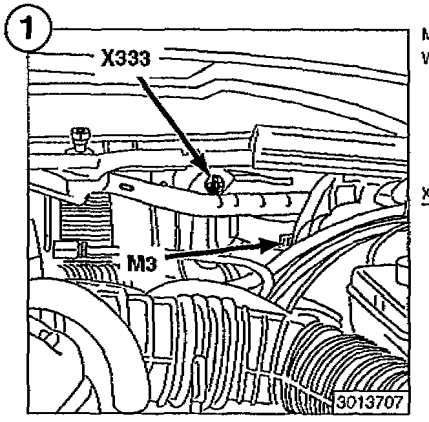


B6200
HEATED
OXYGEN SENSOR

X6200

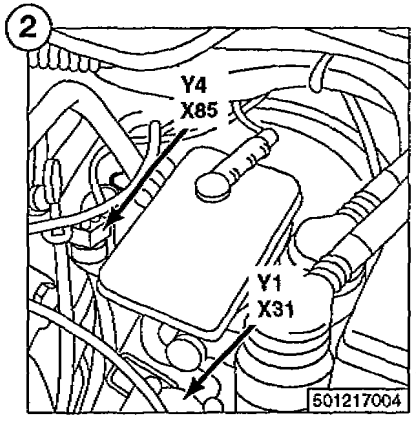
COMPONENT LOCATION VIEWS





M3
WIPER MOTOR

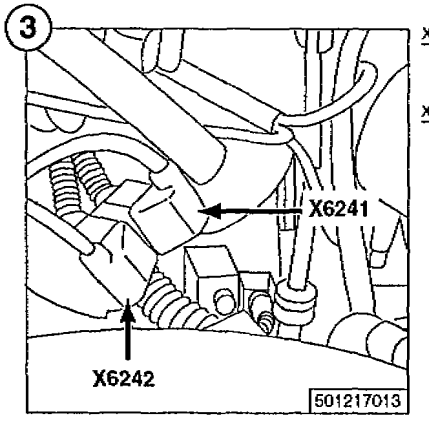
X333



Y1
ABS
HYDRAULIC UNIT

Y4
WATER VALVE
ASSEMBLY

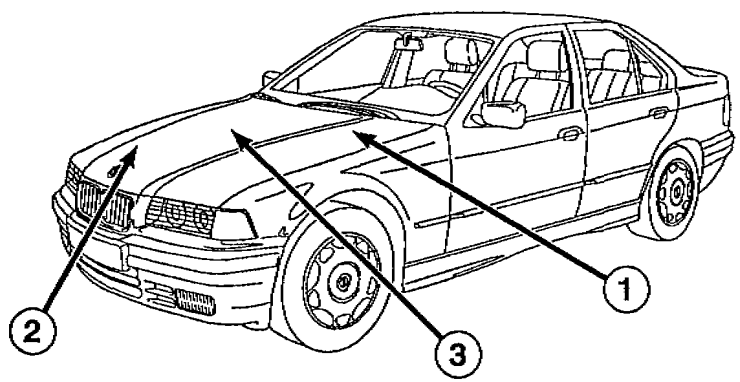
X31
X85

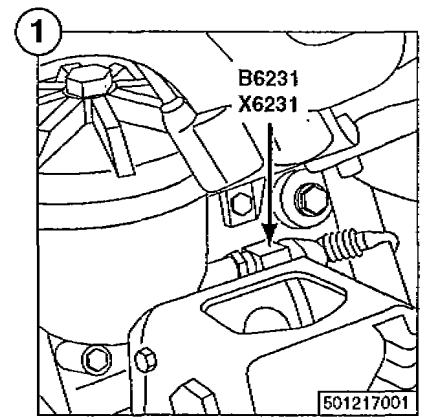


X6241

X6242

COMPONENT LOCATION VIEWS

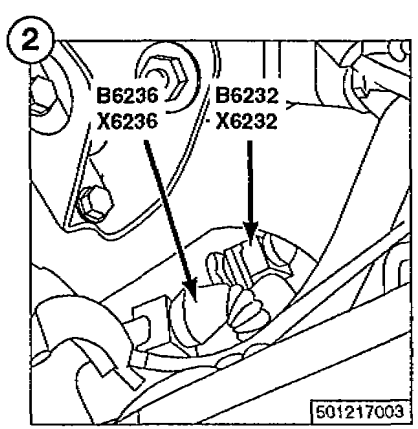




B6231
OIL PRESSURE SWITCH

X6231

318I

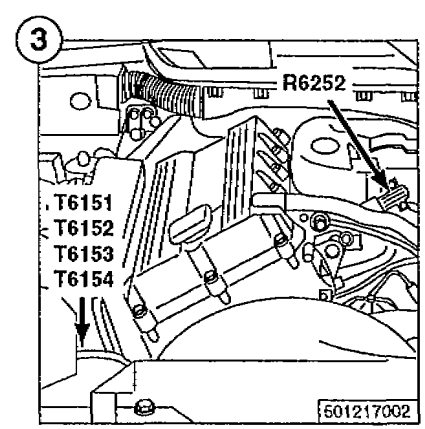


B6232
ENGINE COOLANT TEMPERATURE SENSOR

B6236
ENGINE COOLANT TEMPERATURE SENSOR

X6232
X6236

318I



R6252
THROTTLE POSITION SENSOR

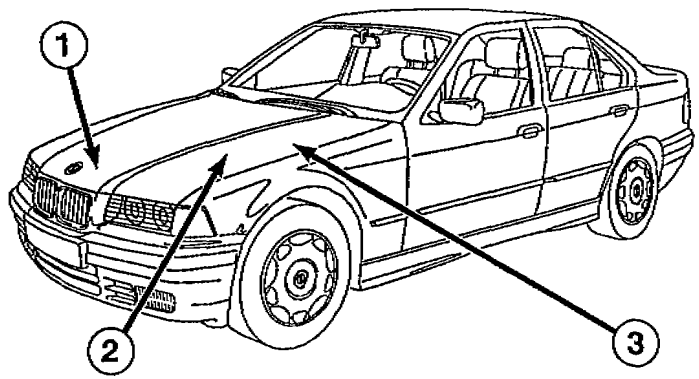
T6151
CYL. 1 IGNITION COIL

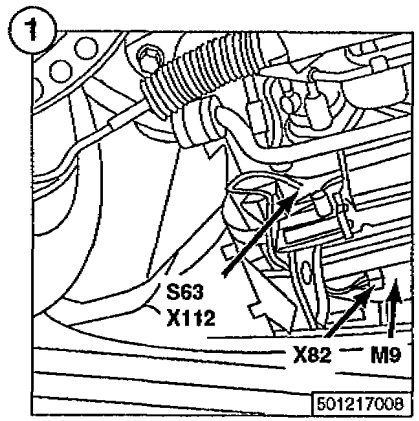
T6152
CYL. 2 IGNITION COIL

T6153
CYL. 3 IGNITION COIL

T6154
CYL. 4 IGNITION COIL

318I



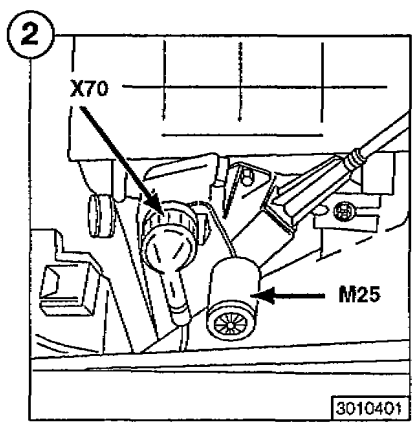


M9
AUXILIARY
FAN MOTOR

S63
ENGINE COOLANT
LEVEL SWITCH

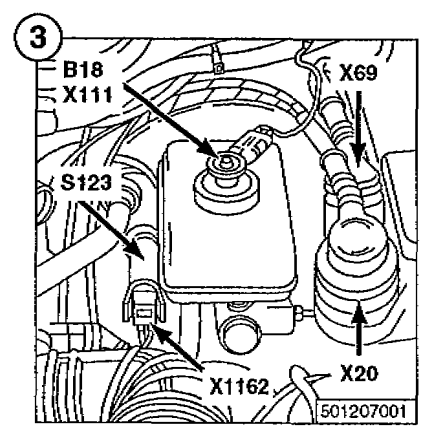
X82
X112

318i



M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70

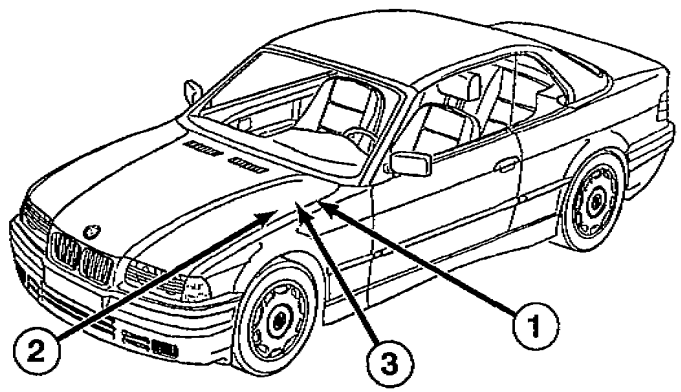


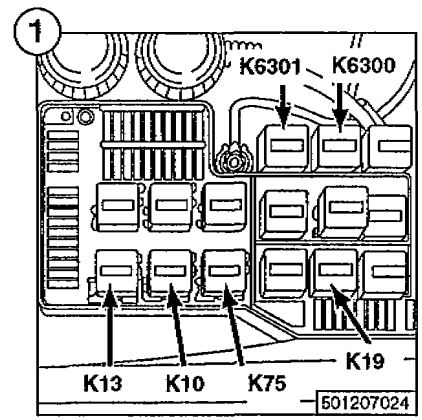
B18
BRAKE FLUID
LEVEL SWITCH

S123
ABS PEDAL
TRAVEL SENSOR

X20
X69
X111
X1162

COMPONENT LOCATION VIEWS





K10 ABS RELAY

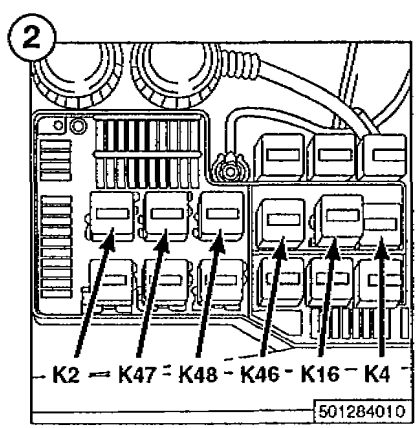
K75 ABS PUMP MOTOR RELAY

K13 REAR DEFOGGER RELAY

K6300 ENGINE CONTROL MODULE RELAY

K19 COMPRESSOR CONTROL RELAY

K6301 CYL. 1-6 FUEL PUMP RELAY



K2 HORN RELAY

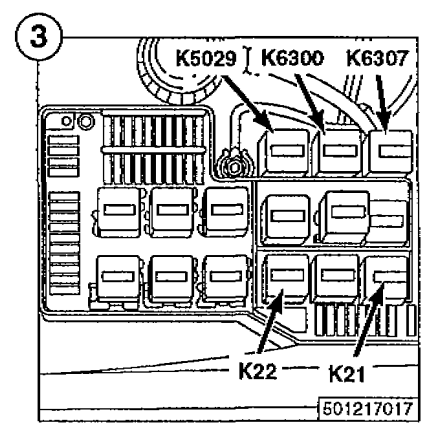
K46 HIGH BEAM LIGHT RELAY

K4 BLOWER RELAY

K47 FRONT FOG LIGHT RELAY

K16 HAZARD FLASHER RELAY

K48 LOW BEAM LIGHT RELAY



K21 NORMAL SPEED RELAY

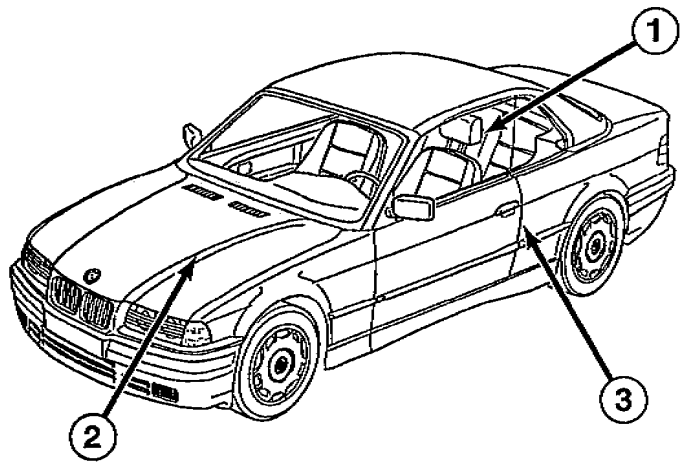
K6300 ENGINE CONTROL MODULE RELAY

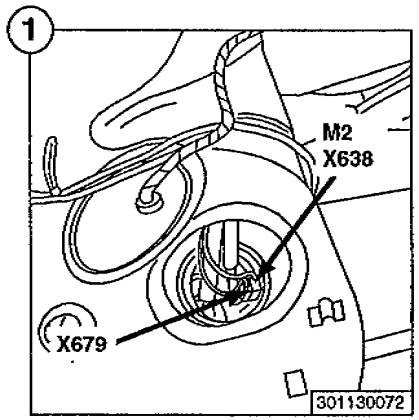
K22 HIGH SPEED RELAY

K6307 FUEL PUMP/START IDENTIFICATION RELAY

K5029 DOUBLE RELAY

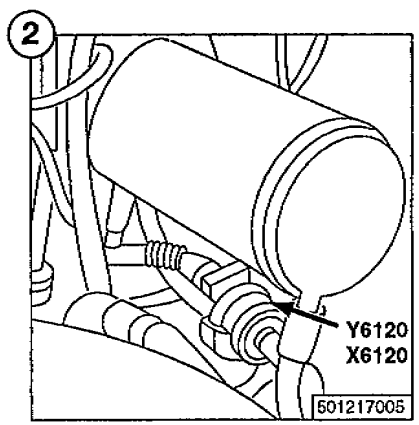
COMPONENT LOCATION VIEWS





M2
FUEL PUMP

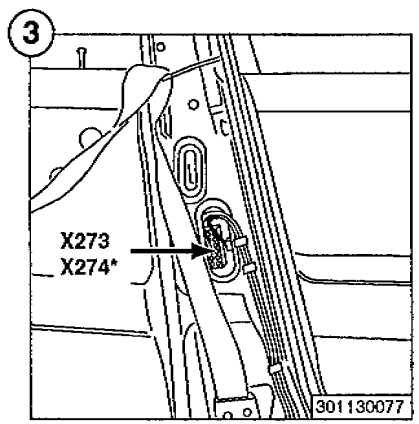
X636
X679



Y6120
EVAPORATIVE
EMISSION VALVE

X6120

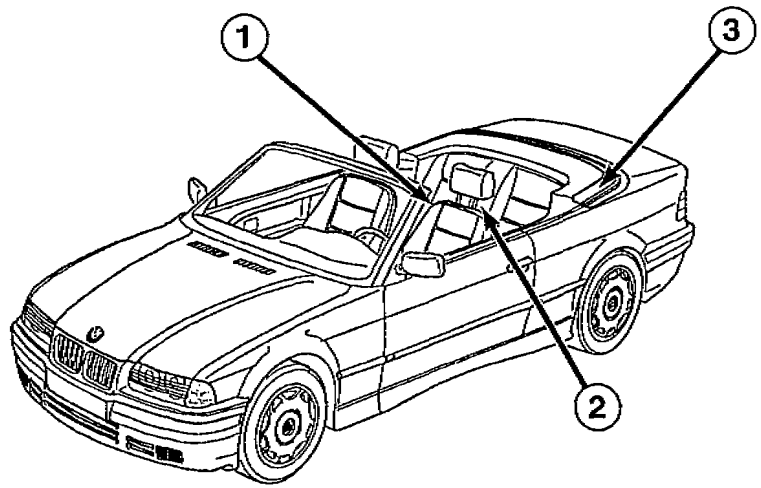
318I

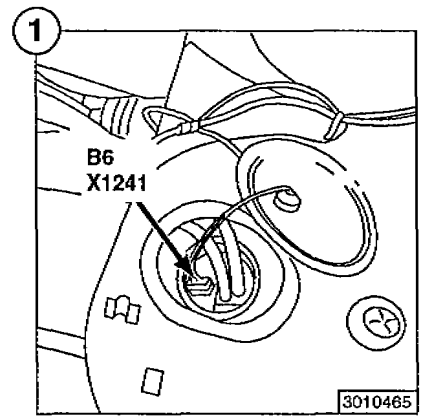


X273
X274 *

* RH similar

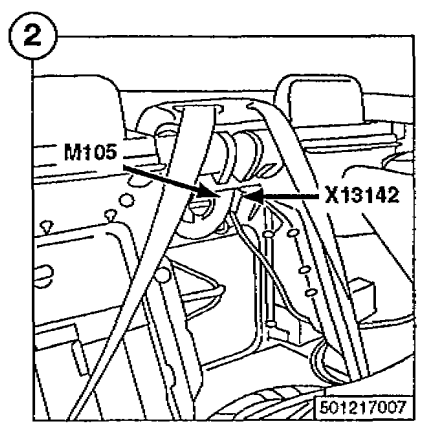
COMPONENT LOCATION VIEWS





B6
FUEL LEVEL
SENSOR

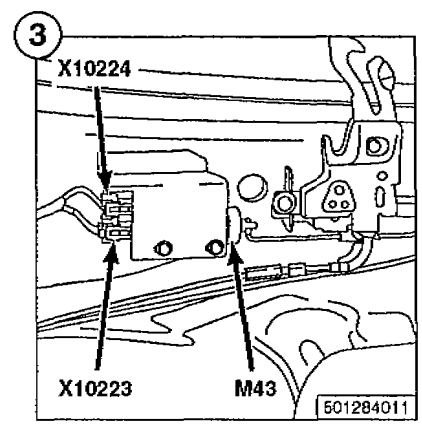
X1241



M105
REAR WINDOW
BLOWER

X13142

convertible

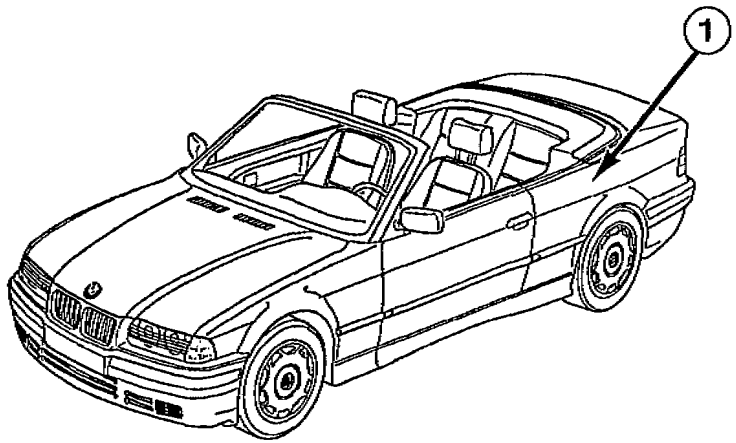


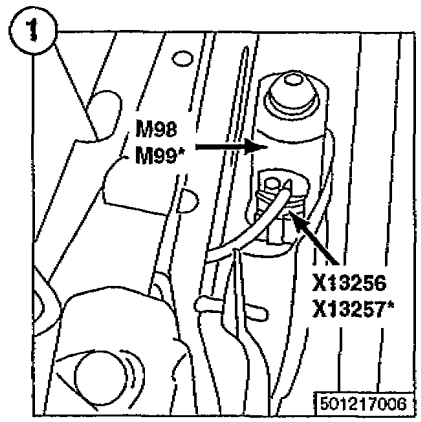
M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

X10223
X10224

convertible

COMPONENT LOCATION VIEWS





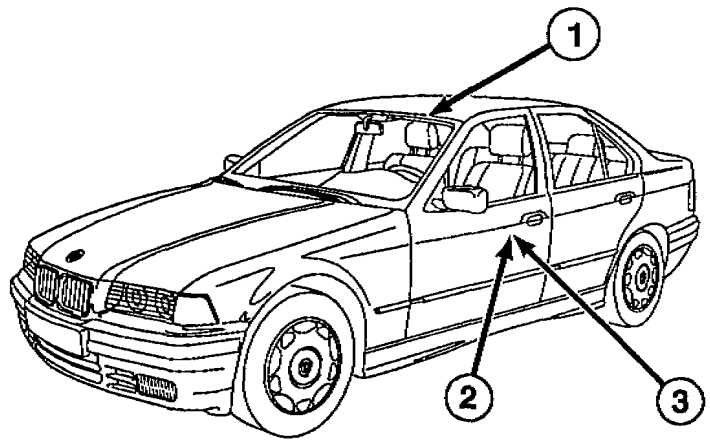
M98 X13257 *
LEFT REAR
WINDOW MOTOR

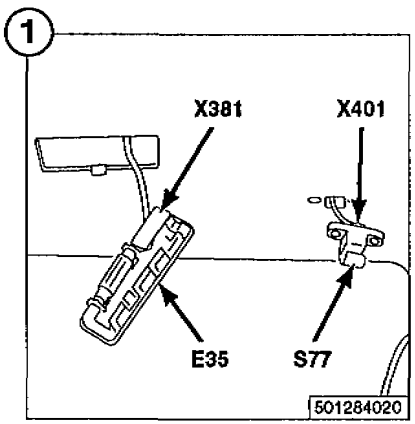
M99 *
RIGHT REAR
WINDOW MOTOR

X13256

* RH similar

COMPONENT LOCATION VIEWS

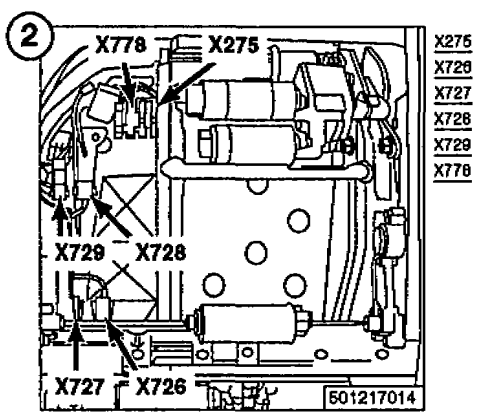




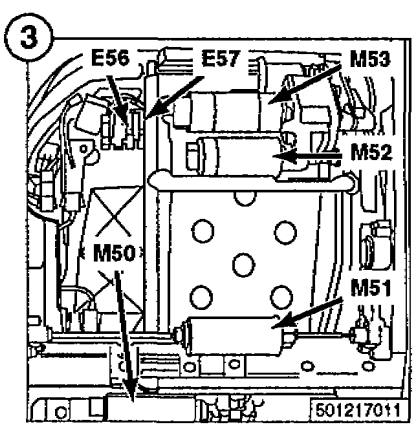
E35
DRIVER'S
MAKEUP
MIRROR LIGHT

S77
DRIVER'S
MAKEUP
MIRROR SWITCH

X381
X401



X275
X726
X727
X726
X729
X778



E56
DRIVER'S
SEATBACK
HEATER

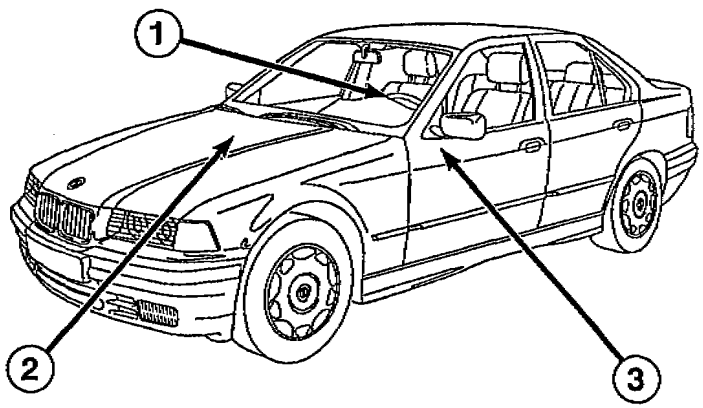
M51
DRIVER'S SEAT
MOVEMENT MOTOR

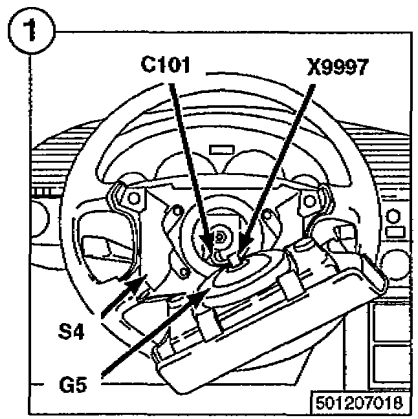
E57
DRIVER'S
SEAT HEATER

M52
DRIVER'S SEAT
HEIGHT MOTOR

M50
DRIVER'S
SEAT CUSHION
TILT MOTOR

M53
DRIVER'S
SEATBACK
RECLINER MOTOR

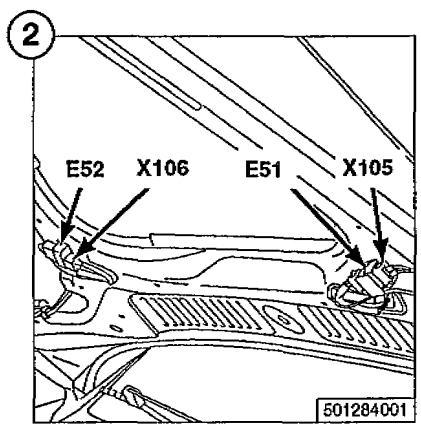




C101 X9997
CONTACT RING

G5
DRIVER'S
AIR BAG GAS
GENERATOR

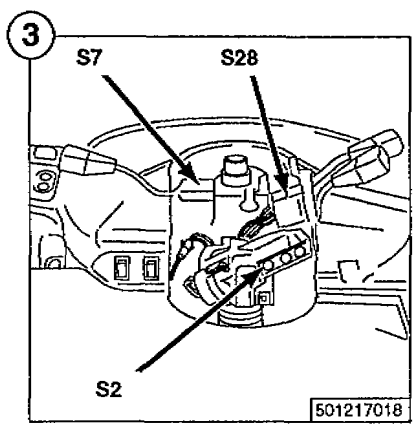
S4
HORN SWITCH



E51
LEFT WASHER
JET HEATER

E52
RIGHT WASHER
JET HEATER

X105
X106

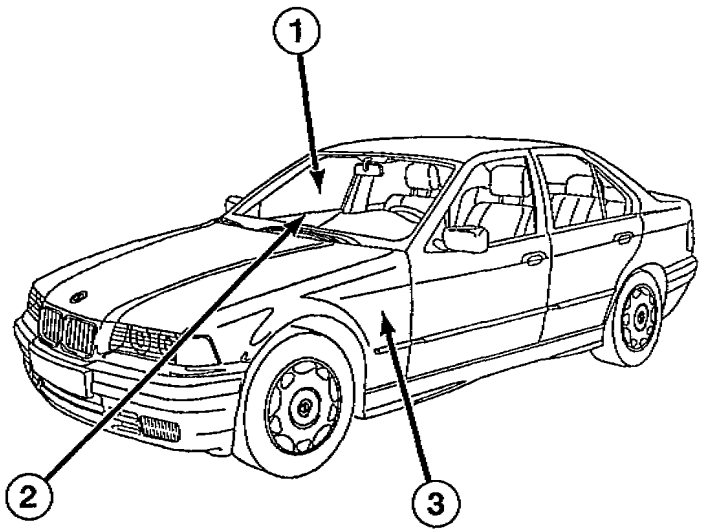


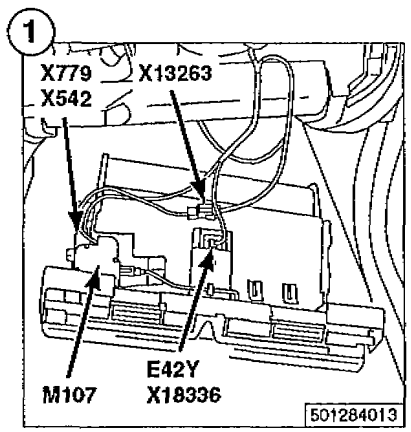
S2
IGNITION
SWITCH

S7
COMBINATION
SWITCH

S28
CRUISE CONTROL
SWITCH

COMPONENT LOCATION VIEWS

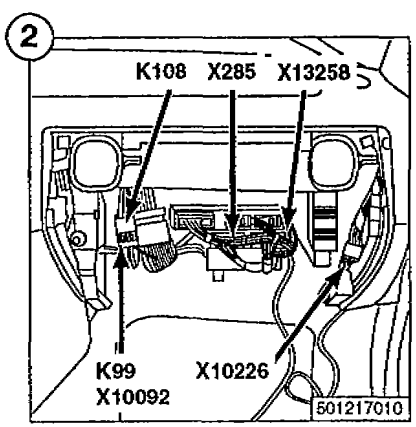




E42y
GLOVE BOX
LIGHT/SWITCH

M107
GLOVE BOX LOCK
MOTOR

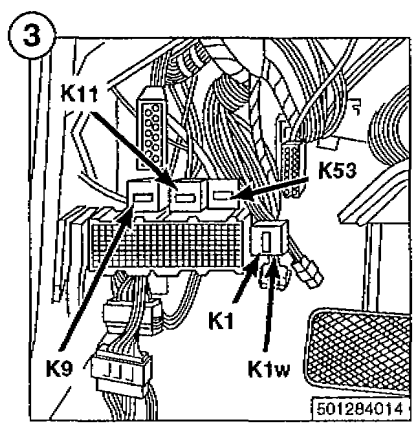
X542
X779
X13263
X18336



K99
REAR WINDOW
BLOWER RELAY

K108
HORN RELAY
(ALPINE)

X285
X10092
X10226
X13258



K1
STARTER RELAY

K1w*
STARTER
IMMOBILIZATION
RELAY

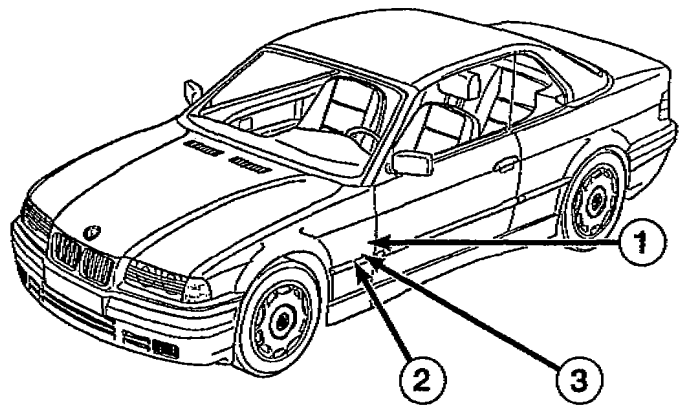
K9
UNLOADER
RELAY,
TERMINAL 15

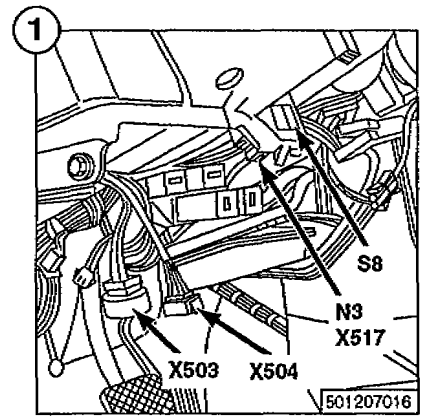
K53
WIPER MOTOR
RELAY

K11
WIPER RELAY

* LATE PRODUCTION

COMPONENT LOCATION VIEWS

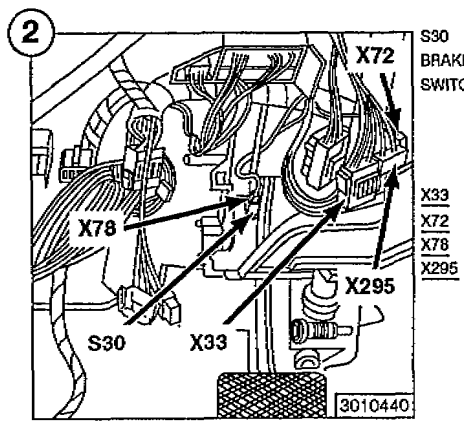




N3
DIMMER

S8
LIGHT SWITCH

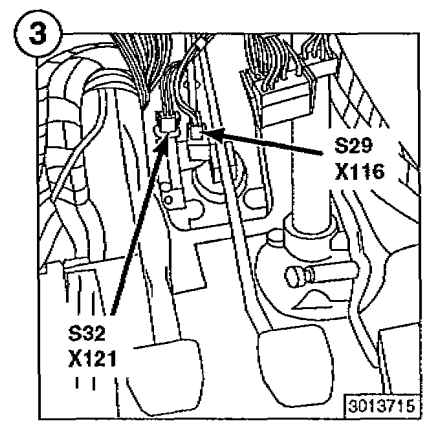
X503
X504
X517



S30
BRAKE LIGHT
SWITCH

X33
X72
X78
X295

AUTOMATIC



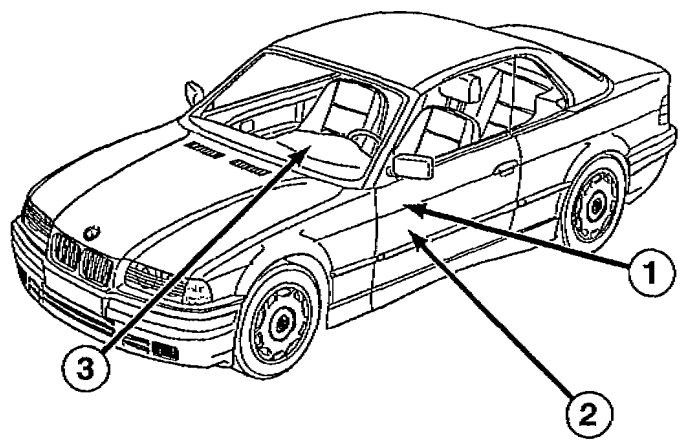
S29
BRAKE LIGHT
SWITCH

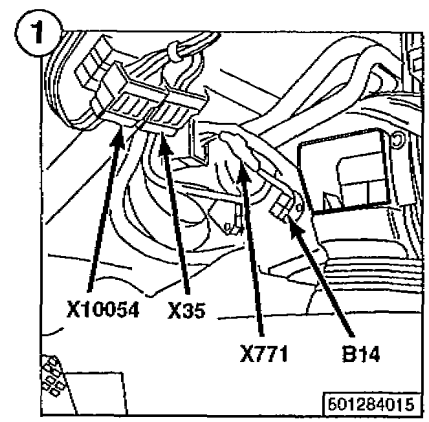
S32
CLUTCH SWITCH

X116
X121

MANUAL

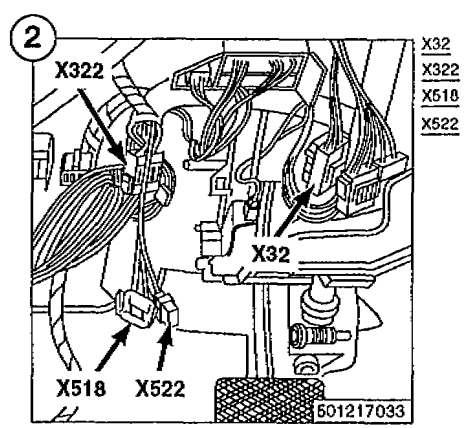
COMPONENT LOCATION VIEWS



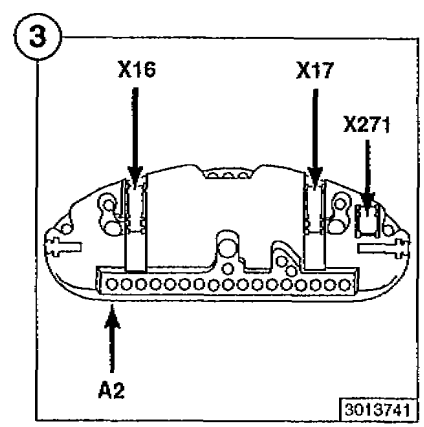


B14
EVAPORATOR
TEMPERATURE
SENSOR

X35
X771
X10054



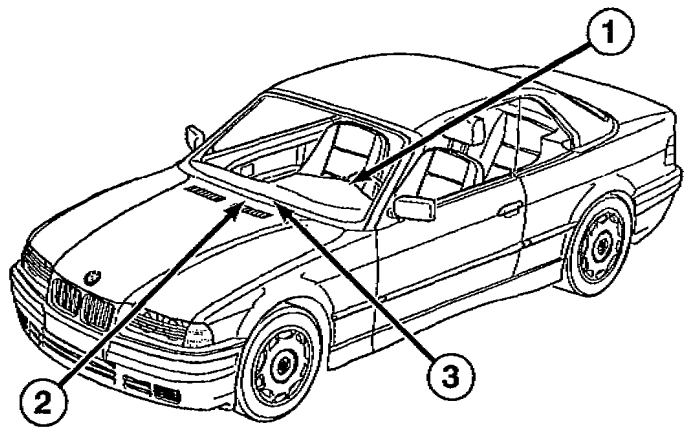
X32
X322
X518
X522

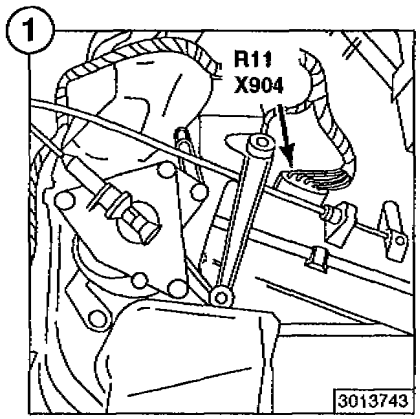


A2
INSTRUMENT
CLUSTER

X16
X17
X271

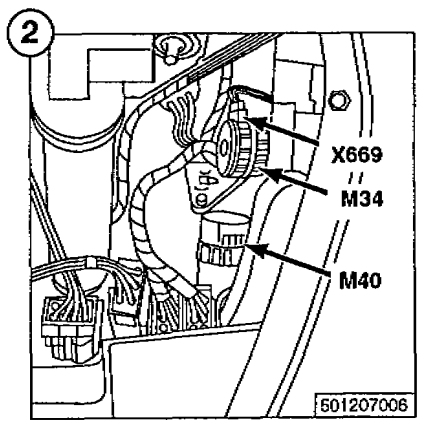
COMPONENT LOCATION VIEWS





R11
BLOWER
RESISTORS

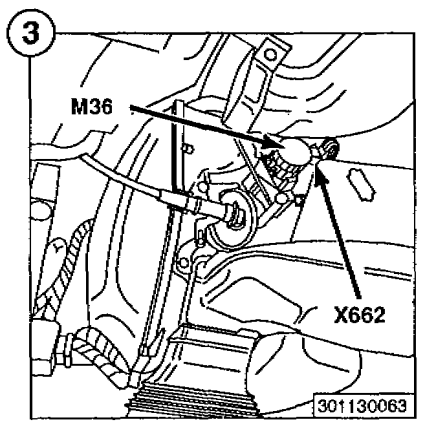
X904



M34
DASH VENT
MIXING FLAP
MOTOR

M40
RECIRCULATION
FLAP MOTOR

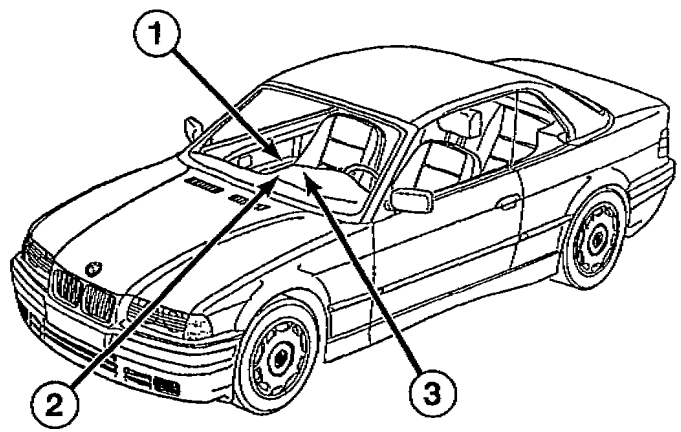
X669

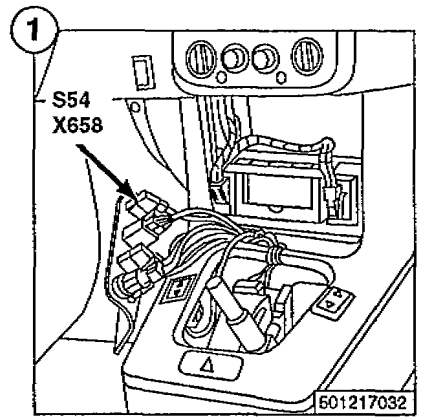


M36
FRESH AIR
FLAP MOTOR

X662

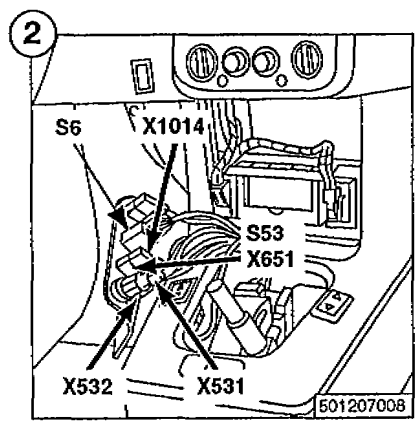
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

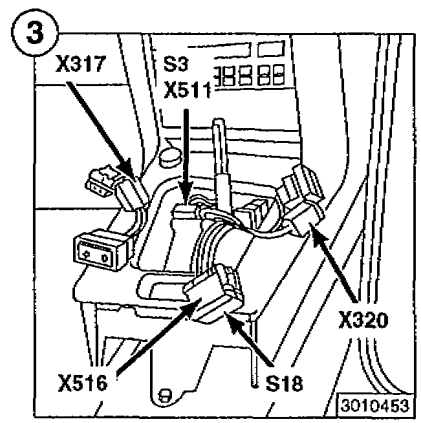
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014

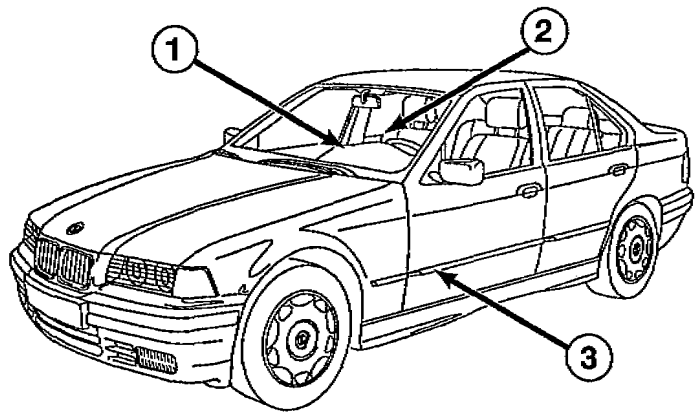


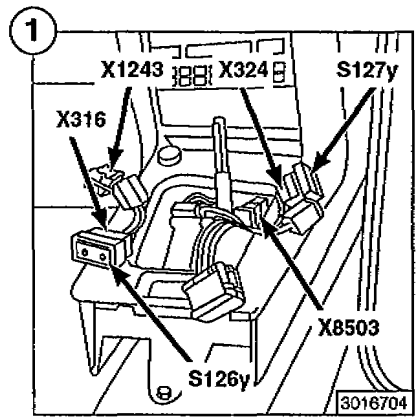
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

S18
HAZARD SWITCH

X317
X320
X511
X516

COMPONENT LOCATION VIEWS

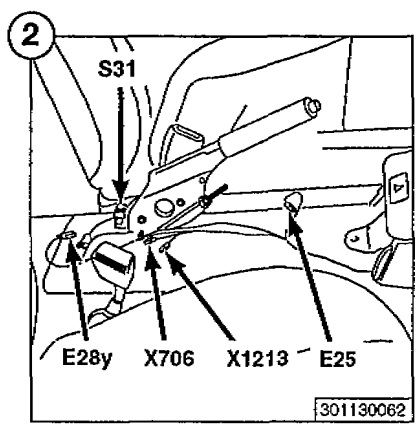




S126y
DRIVER'S
POWER
WINDOW SWITCH

S127y
PASSENGER'S
POWER WINDOW
SWITCH

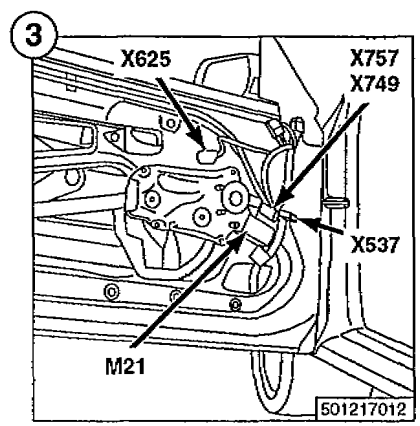
X316
X324
X1243
X8503



E25 X706
FRONT X1213
ASHTRAY LIGHT

E28y
REAR
ASHTRAY LIGHT

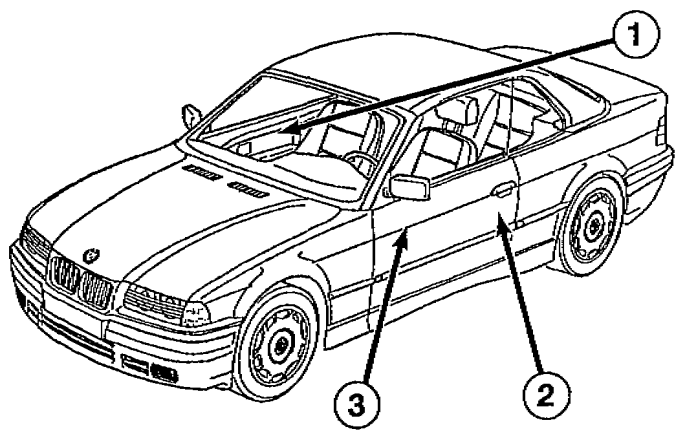
S31
PARK BRAKE
SWITCH

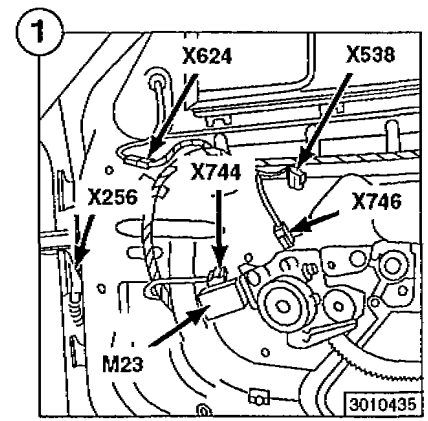


M21
DRIVER'S
WINDOW MOTOR

X537
X625
X749
X757

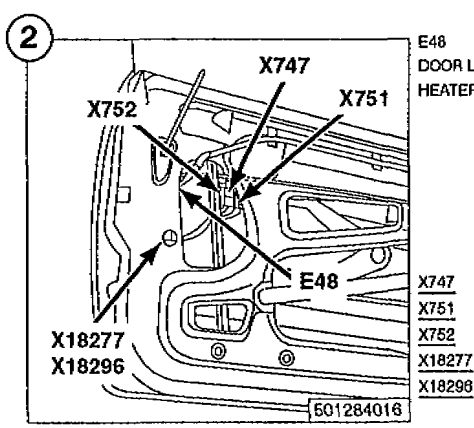
COMPONENT LOCATION VIEWS





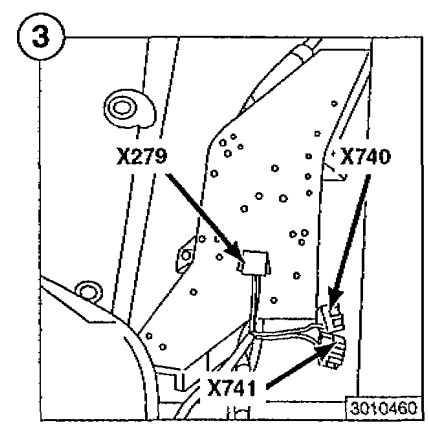
M23
PASSENGER'S
WINDOW MOTOR

X256
X538
X624
X744
X746



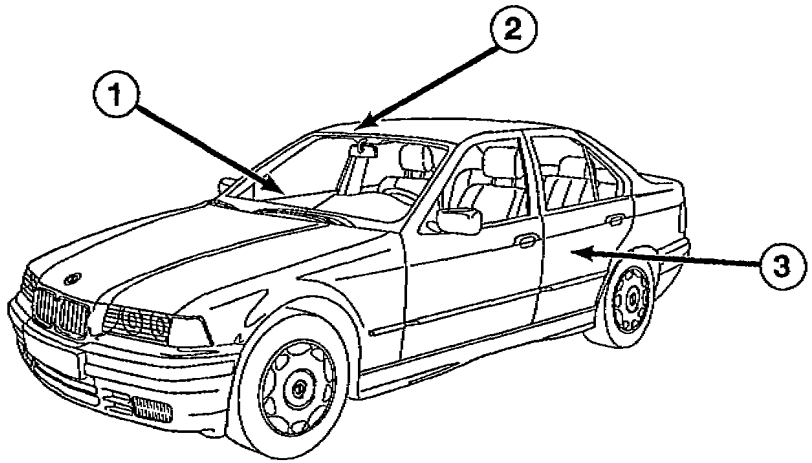
E48
DOOR LOCK
HEATER

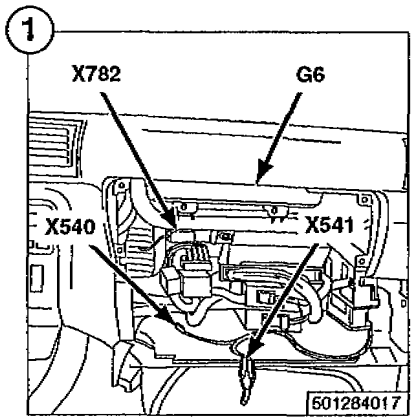
X747
X751
X752
X18277
X18296



X279
X740
X741

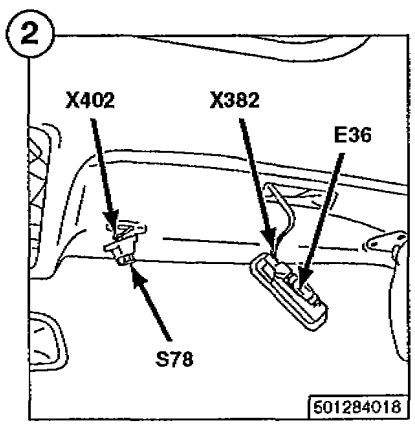
COMPONENT LOCATION VIEWS





G6
PASSENGER'S AIR BAG GAS GENERATOR 1

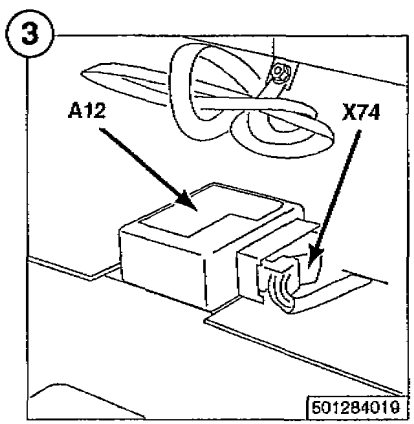
X540
X541
X782



E36
PASSENGER'S MAKEUP MIRROR LIGHT

S78
PASSENGER'S MAKEUP MIRROR SWITCH

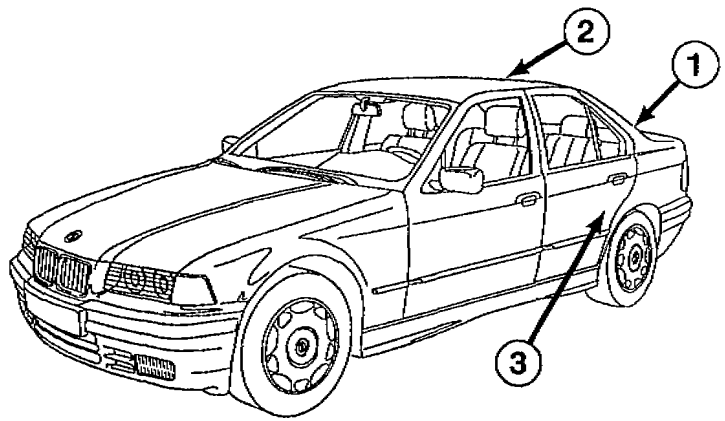
X382
X402

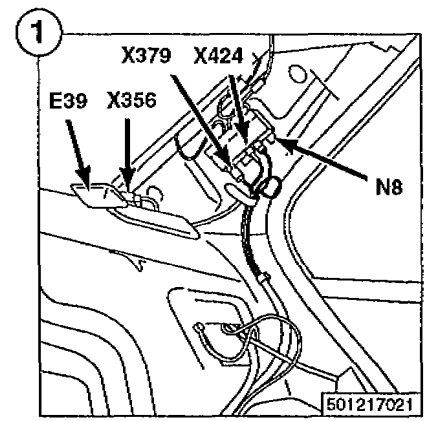


A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X74

COMPONENT LOCATION VIEWS

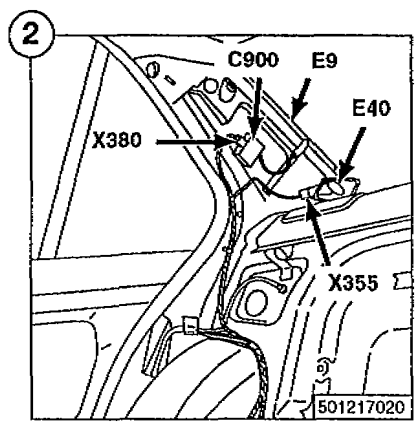




E39
LEFT REAR
INTERIOR LIGHT

N8
ANTENNA
AMPLIFIER
AM/FM

X356
X379
X424

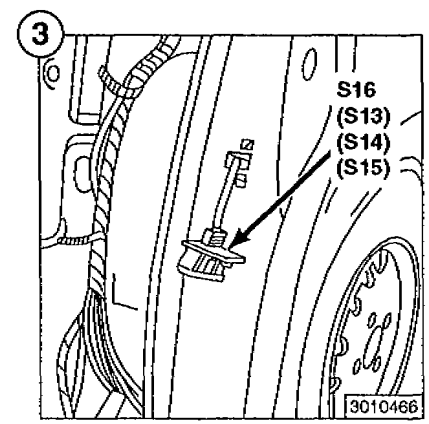


C900
SUPPRESSION
FILTER

X355
X380

E9
REAR
DEFOGGER1

E40
RIGHT REAR
INTERIOR LIGHT



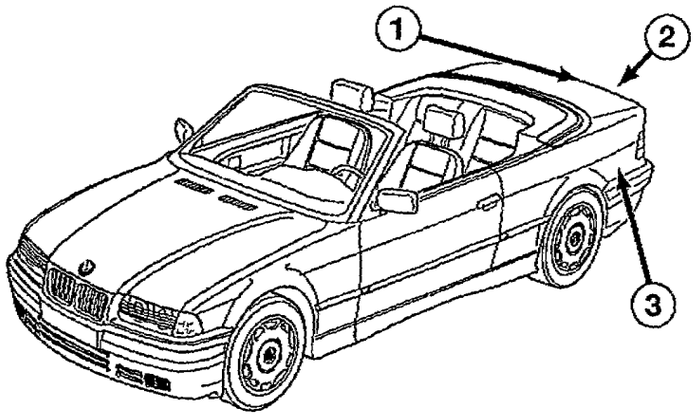
S13
PASSENGER'S
DOOR JAMB
SWITCH

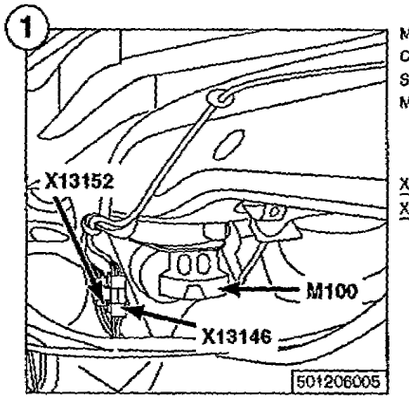
S16
LEFT REAR
DOOR JAMB
SWITCH

S14
DRIVER'S
DOOR JAMB
SWITCH

S15
REAR RIGHT
DOOR JAMB
SWITCH

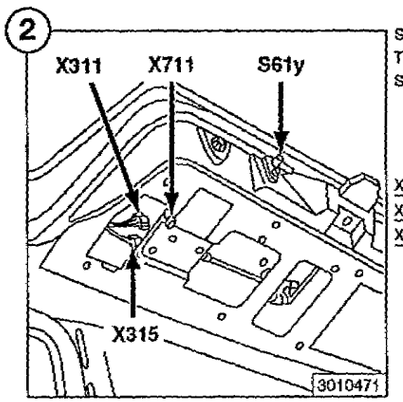
COMPONENT LOCATION VIEWS





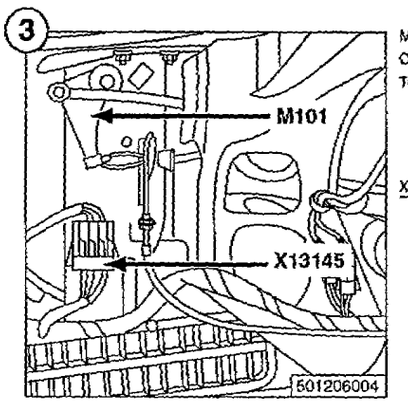
M100
CONVERTIBLE TOP
STORAGE LID
MOTOR

X13146
X13152



S61y
TRUNK LIGHT
SWITCH

X311
X315
X711



M101
CONVERTIBLE
TOP MOTOR

X13145

SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X276	FRONT	8000.0-02
X313-X314	REAR	8000.0-03
X313-X314	REAR, CONVERTIBLE	8000.0-04
X428-X481	REAR	8000.0-03
X428	REAR, CONVERTIBLE	8000.0-04
X441-X456	REAR, CONVERTIBLE	8000.0-04
X460-X462	REAR, CONVERTIBLE	8000.0-04
X465-X481	REAR, CONVERTIBLE	8000.0-04
X530-X595	FRONT	8000.0-02
X805	REAR	8000.0-03
X805	REAR, CONVERTIBLE	8000.0-04
X824-X830	RADIO	NOT SHOWN
X849-X851	DRIVER'S DOOR	NOT SHOWN
X876-X878	RADIO	NOT SHOWN
X906	IHKR	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015-X1164	FRONT	8000.0-02
X1167	REAR	8000.0-03
X1168-X1192	FRONT	8000.0-02
X1212-X1218	REAR	8000.0-03
X1212-X1238	REAR, CONVERTIBLE	8000.0-04
X1225-X1233	FRONT	8000.0-02
X1226-X1235	REAR	8000.0-03
X1258	FRONT	8000.0-02
X1299	REAR	8000.0-03
X1382-X1383	RADIO	NOT SHOWN
X1387-X1396	REAR	8000.0-03
X1387-X1396	REAR, CONVERTIBLE	8000.0-04

SPLICE	HARNESS	PAGE NUMBER
X5010-X5011	S50 ENGINE	8000.0-07
X5018-X5035	S50 ENGINE	8000.0-07
X6410	M42 ENGINE	8000.0-05
X6410-X6492	S50 ENGINE	8000.0-07
X6410	M50 ENGINE	8000.0-06
X6411	M50 ENGINE	8000.0-06
X6458-X6492	M42 ENGINE	8000.0-05
X6458-X6461	M50 ENGINE	8000.0-06
X6475	M50 ENGINE	8000.0-06
X6491	M50 ENGINE	8000.0-06
X6492	M50 ENGINE	8000.0-06
X6810-X6866	M42 ENGINE	8000.0-05
X6810-X6866	S50 ENGINE	8000.0-07
X6810	M50 ENGINE	8000.0-06
X6820-6822	M50 ENGINE	8000.0-06
X6830-X6831	M50 ENGINE	8000.0-06
X6832	M42 ENGINE	8000.0-05
X6836	M50 ENGINE	8000.0-06
X6863-X6866	M50 ENGINE	8000.0-06
X6900-X6906	M50 ENGINE	8000.0-06
X6900-X6906	S50 ENGINE	8000.0-07
X8004	M50 ENGINE	8000.0-06
X8004	S50 ENGINE	8000.0-07
X8004-X8576	M42 ENGINE	8000.0-05
X8007	M50 ENGINE	8000.0-06
X8010	M50 ENGINE	8000.0-06
X8015	M50 ENGINE	8000.0-06
X8022	M50 ENGINE	8000.0-06

SPLICE LOCATION VIEWS

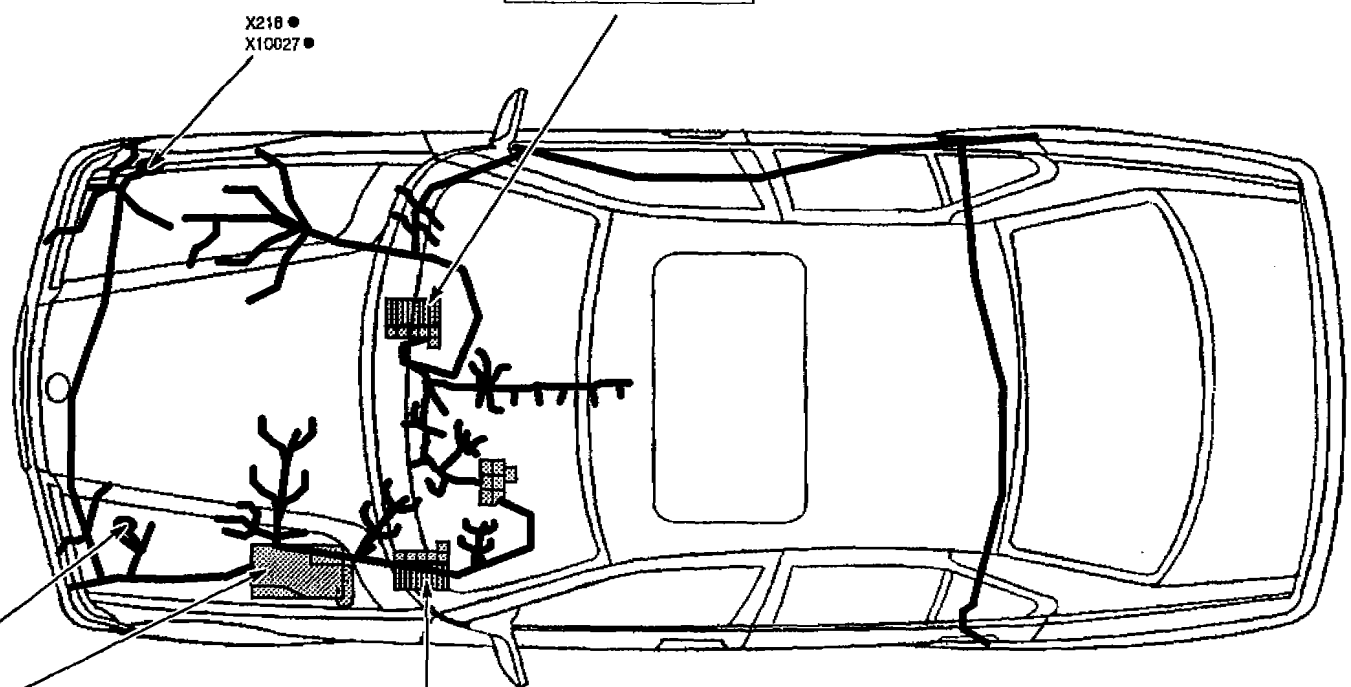
SPLICE LOCATION INDEX

INDEX

SPLICE	HARNESS	PAGE NUMBER
X8025	M50 ENGINE	8000.0-06
X8042	M50 ENGINE	8000.0-06
X8051	M50 ENGINE	8000.0-06
X8056	M50 ENGINE	8000.0-06
X8065	M50 ENGINE	8000.0-06
X8071-8072	M50 ENGINE	8000.0-06
X8084	M50 ENGINE	8000.0-06
X10007-X10100	FRONT	8000.0-02
X10118	REAR, CONVERTIBLE	8000.0-04
X10251-10252	FRONT	8000.0-02
X10120-X10192	FRONT	8000.0-02
X10189-X10229	REAR, CONVERTIBLE	8000.0-04
X13002-X13011	REAR	8000.0-03
X13002-X13011	REAR, CONVERTIBLE	8000.0-04
X13021-X13115	FRONT	8000.0-02
X13007-X13273	REAR, CONVERTIBLE	8000.0-04
X18160-X18161	IHKR	NOT SHOWN
X18165	FRONT	8000.0-02
X18251	DRIVER'S DOOR	NOT SHOWN
X18252	PASSENGER'S DOOR	NOT SHOWN
X18253	DRIVER'S DOOR	NOT SHOWN
X18254-X18284	PASSENGER'S DOOR	NOT SHOWN
X18783-X18784	FRONT	8000.0-02
X18785-X18799	REAR, CONVERTIBLE	8000.0-04
X19513-X19514	RADIO	NOT SHOWN
X69008-X69009	S50 ENGINE	8000.0-07

SPLICE LOCATION VIEWS

FRONT HARNESS

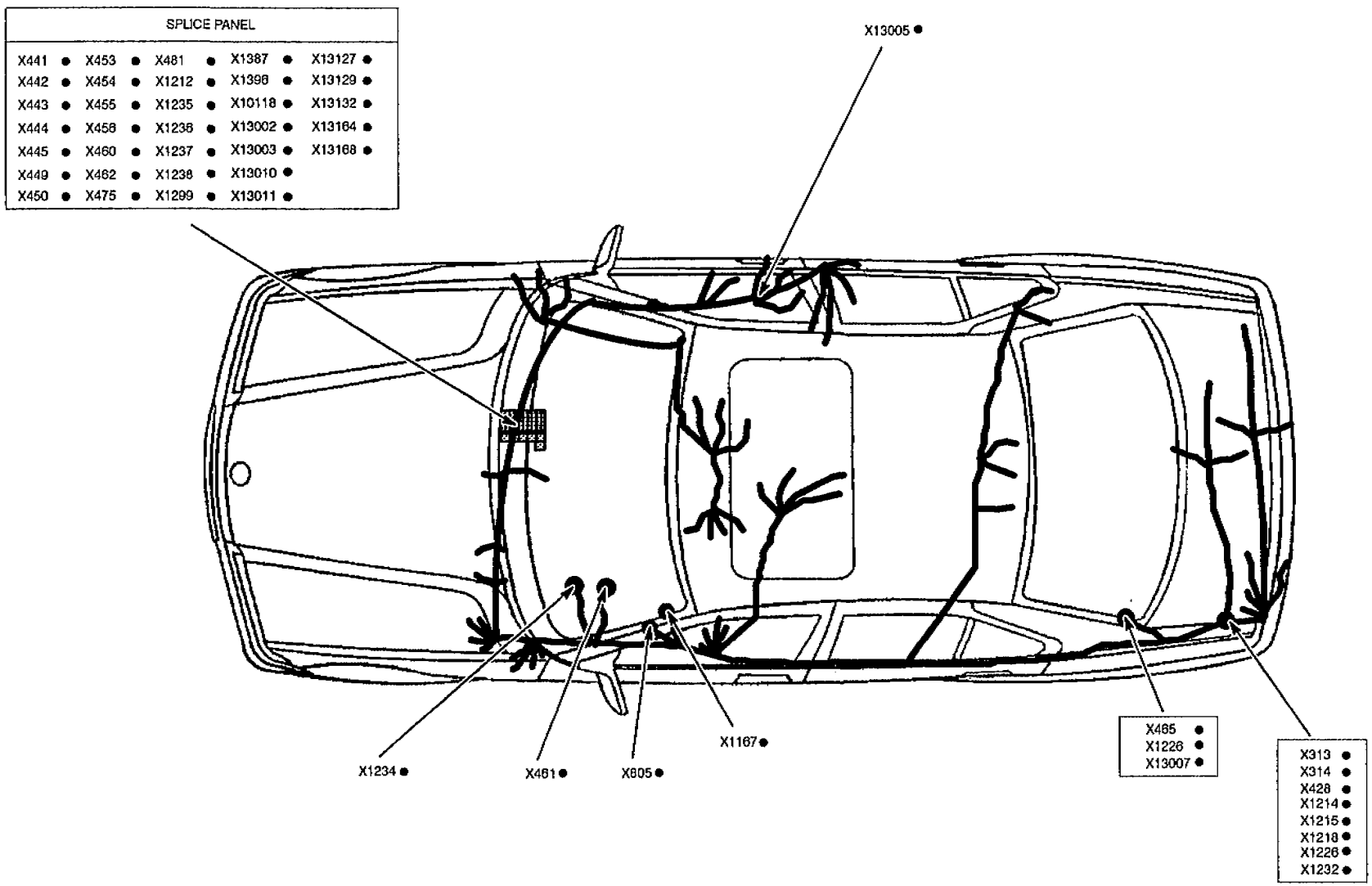


SPLICE PANEL					
X184 ●	X245 ●	X1027 ●	X1077 ●	X1177 ●	X10022 ●
X185 ●	X246 ●	X1028 ●	X1152 ●	X1186 ●	X10055 ●
X186 ●	X278 ●	X1036 ●	X1159 ●	X1192 ●	X10100 ●
X187 ●	X530 ●	X1055 ●	X1163 ●	X1233 ●	X18783 ●
X203 ●	X595 ●	X1068 ●	X1164 ●	X10007 ●	X18784 ●
X223 ●	X1015 ●	X1073 ●	X1166 ●	X10020 ●	
X238 ●	X1022 ●	X1076 ●	X1172 ●	X10021 ●	

SPLICE PANEL						
X181 ●	X213 ●	X1067 ●	X1179 ●	X10028 ●	X10123 ●	X13021 ●
X182 ●	X228 ●	X1069 ●	X1182 ●	X10029 ●	X10191 ●	X18165 ●
X183 ●	X1019 ●	X1079 ●	X1225 ●	X10060 ●	X10192 ●	
X188 ●	X1029 ●	X1080 ●	X1258 ●	X10061 ●	X10231 ●	
X191 ●	X1047 ●	X1085 ●	X10008 ●	X10103 ●	X10251 ●	
X196 ●	X1065 ●	X1159 ●	X10011 ●	X10104 ●	X10252 ●	
X197 ●	X1066 ●	X1169 ●	X10024 ●	X10120 ●	X11264 ●	

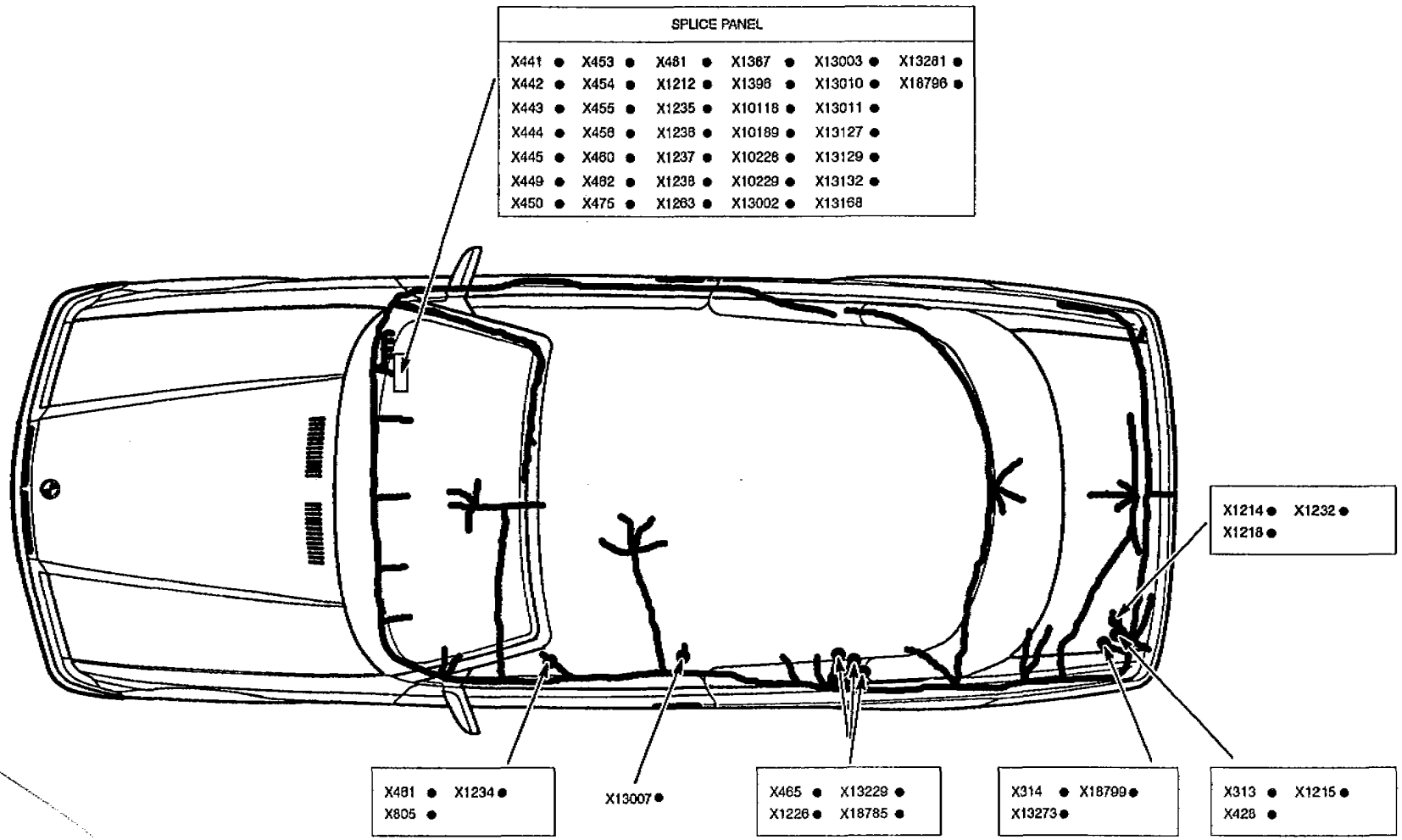
SPLICE LOCATION VIEWS

REAR HARNESS



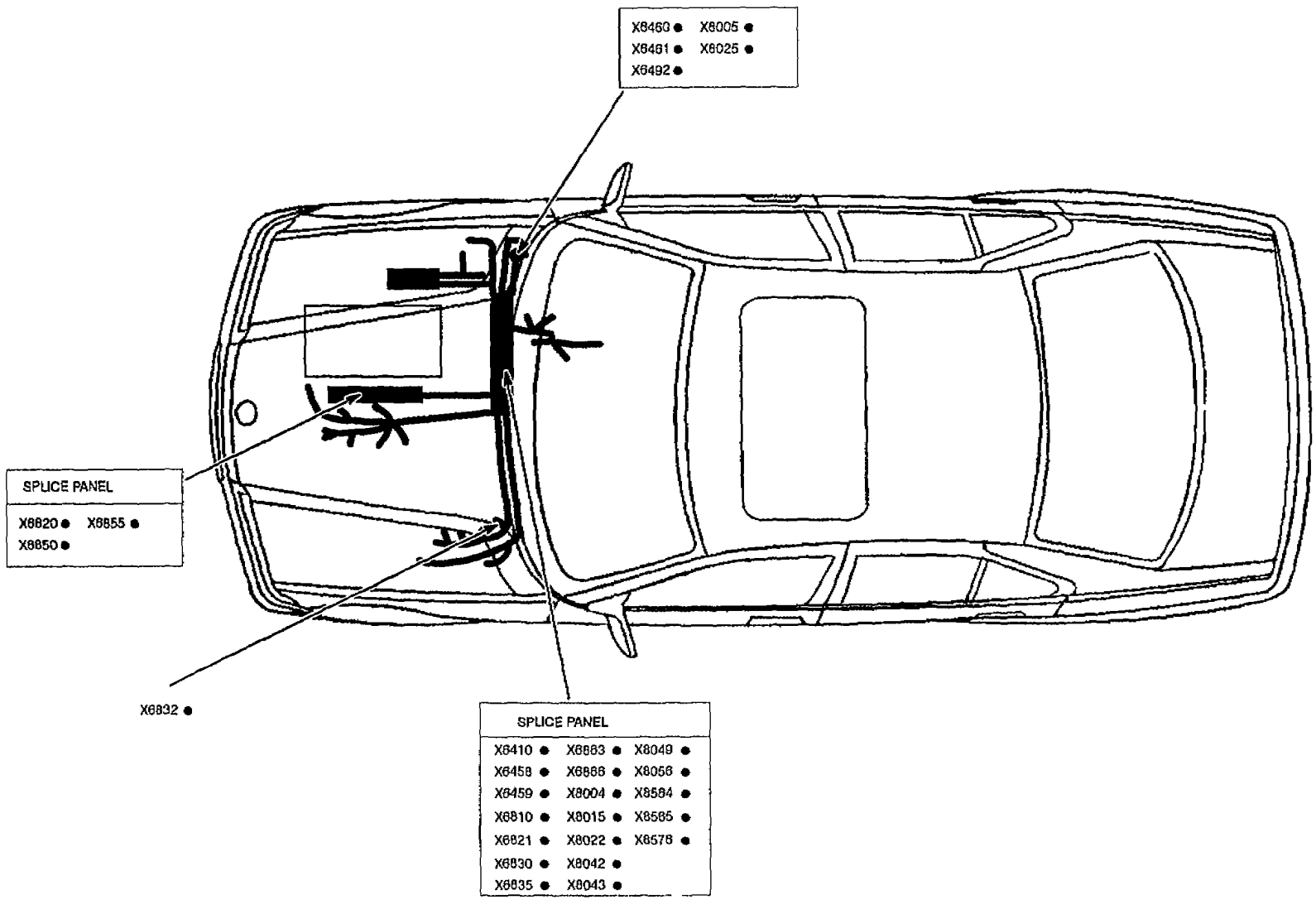
SPLICE LOCATION VIEWS

REAR WIRING HARNESS - CONVERTIBLE



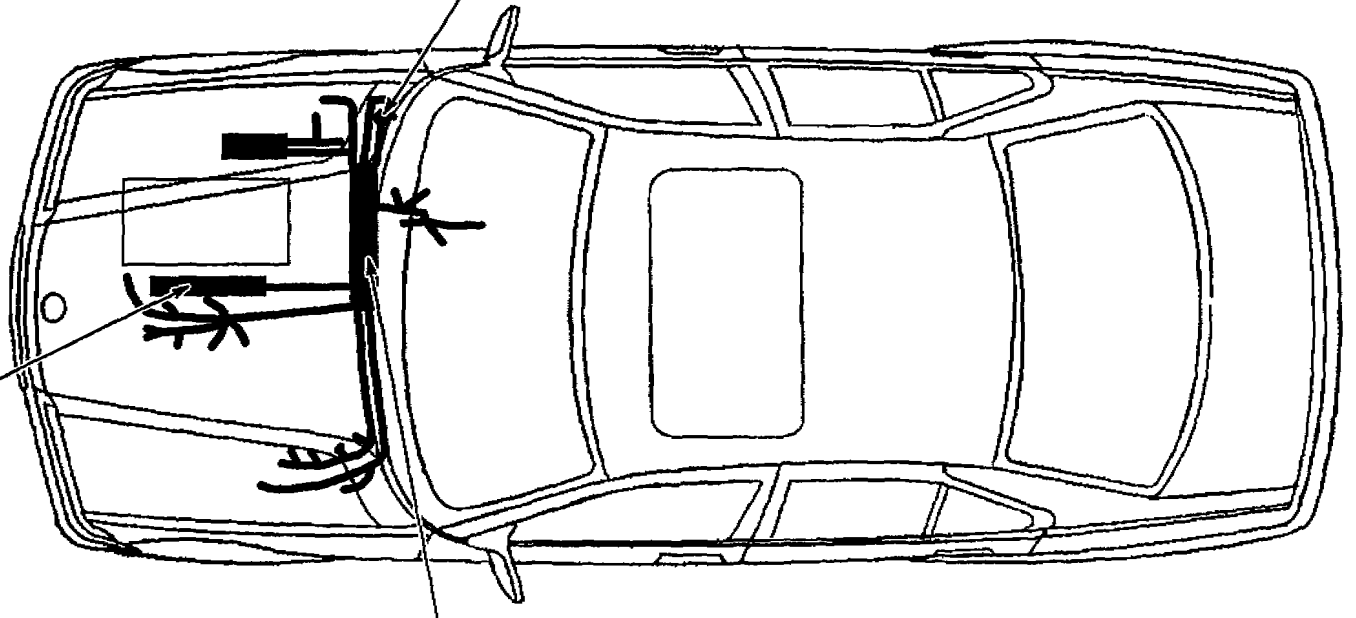
SPLICE LOCATION VIEWS

ENGINE HARNESS M42



SPLICE LOCATION VIEWS

M50 ENGINE HARNESS



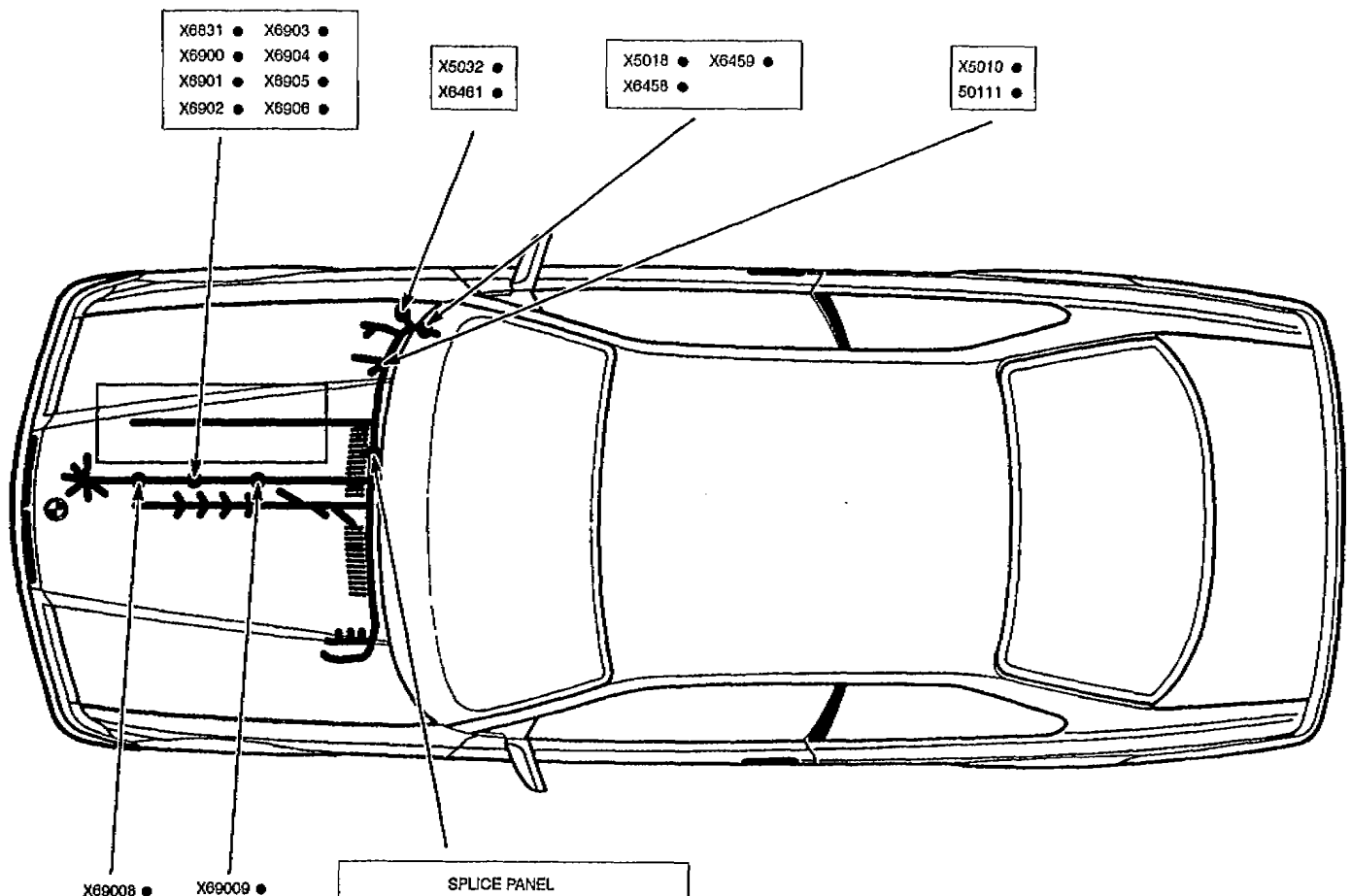
X6460	X6492
X6461	X6025
X6491	

SPLICE PANEL	
X6820	X6903
X6831	X6904
X6900	X6905
X6901	X6906
X6902	

SPLICE PANEL			
X6410	X6821	X8007	X8071
X6411	X6822	X8010	X8072
X6420	X6830	X8015	X8084
X6458	X6838	X8022	X8565
X6459	X6863	X6042	
X6475	X6866	X6051	
X6810	X8004	X6056	

SPLICE LOCATION VIEWS

ENGINE HARNESS S50



SPLICE PANEL			
X5035 ●	X6482 ●	X6490 ●	X6822 ●
X6410 ●	X6484 ●	X6491 ●	X6635 ●
X6411 ●	X6485 ●	X6492 ●	X6663 ●
X6413 ●	X6486 ●	X6810 ●	X6666 ●
X6463 ●	X6487 ●	X6811 ●	X8004 ●
X6475 ●	X6488 ●	X6820 ●	
X6480 ●	X6489 ●	X6821 ●	

FIG. 1

B550001.03

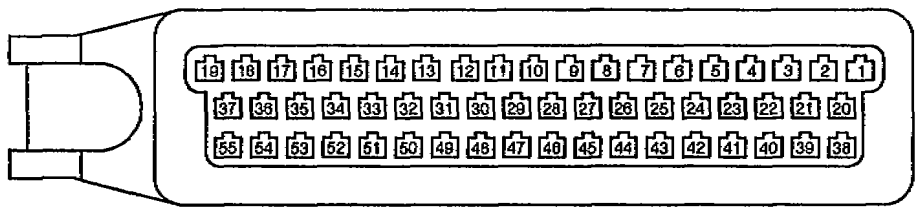


FIG. 2

B260005.00

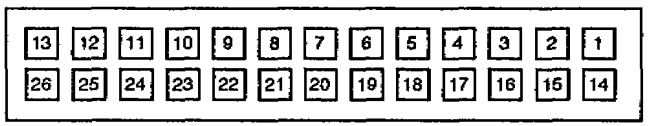


FIG. 3

B150003.00

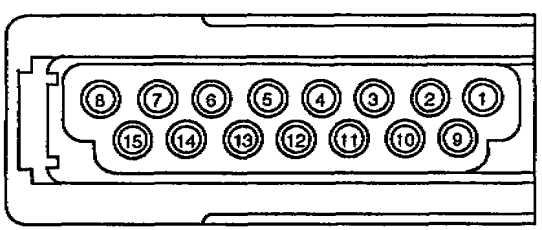
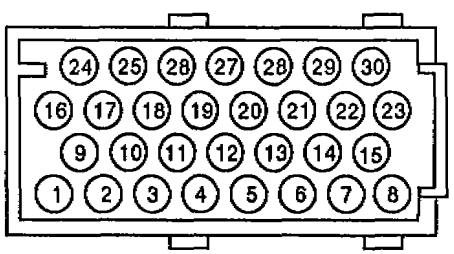


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

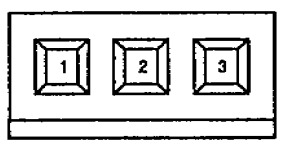


FIG. 2

B120003.00

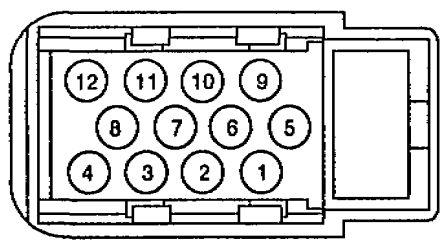


FIG. 3

B120001.00

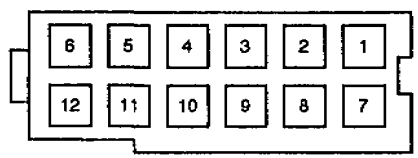


FIG. 4

B080002.00

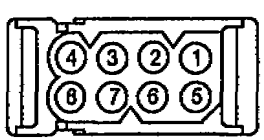


FIG. 5

B180000.00

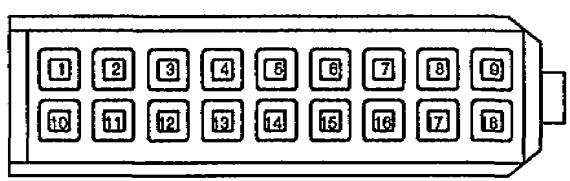
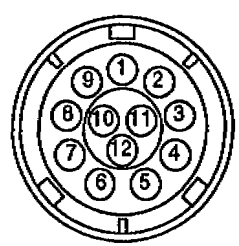


FIG. 6

B120015



CONNECTOR VIEWS

FIG. 1

B030001.00

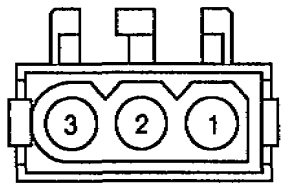


FIG. 2

B080003.00

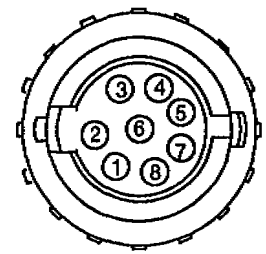


FIG. 3

B170001.00

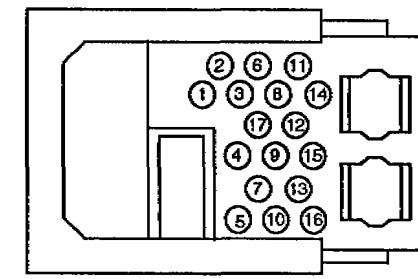


FIG. 4

B100008.00

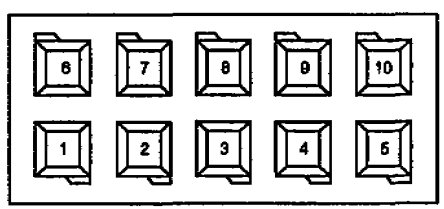


FIG. 5

B030005.00

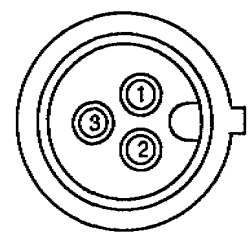
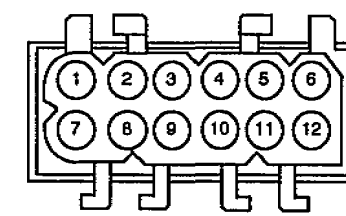


FIG. 6

B120004.01



CONNECTOR VIEWS

FIG. 1

B040002.00

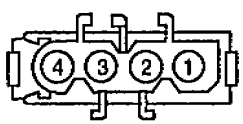


FIG. 2

B050003.00

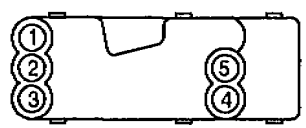


FIG. 3

B040004.00



FIG. 4

B040018

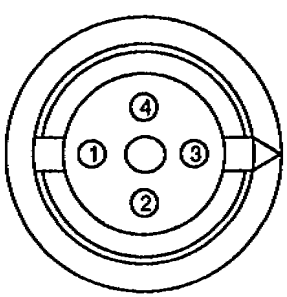


FIG. 5

B080001.00

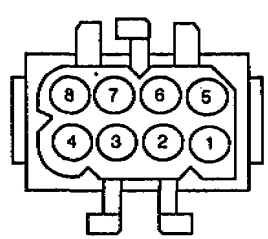


FIG. 6

B090002.00

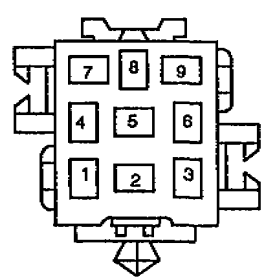


FIG. 1

B210002.00

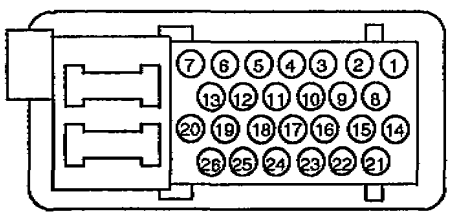


FIG. 2

B060001.02

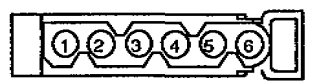


FIG. 3

B070005.00

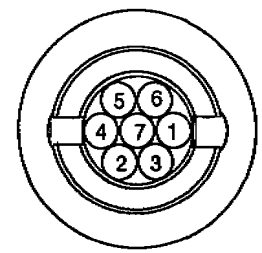


FIG. 4

B200003.00

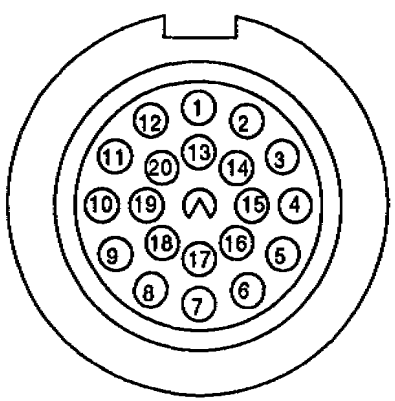


FIG. 5

B060010.01

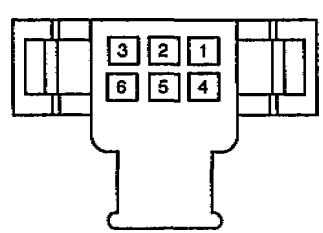


FIG. 6

B030003.02



CONNECTOR VIEWS

FIG. 1

B060008.00

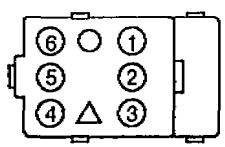


FIG. 2

B250001.01

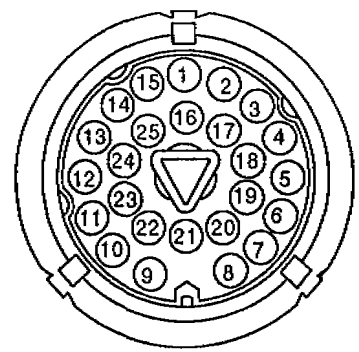


FIG. 3

B060019.02

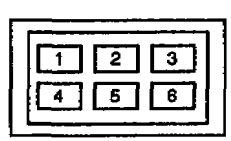


FIG. 4

B060037.00

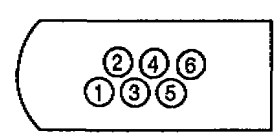


FIG. 1

B880001.00

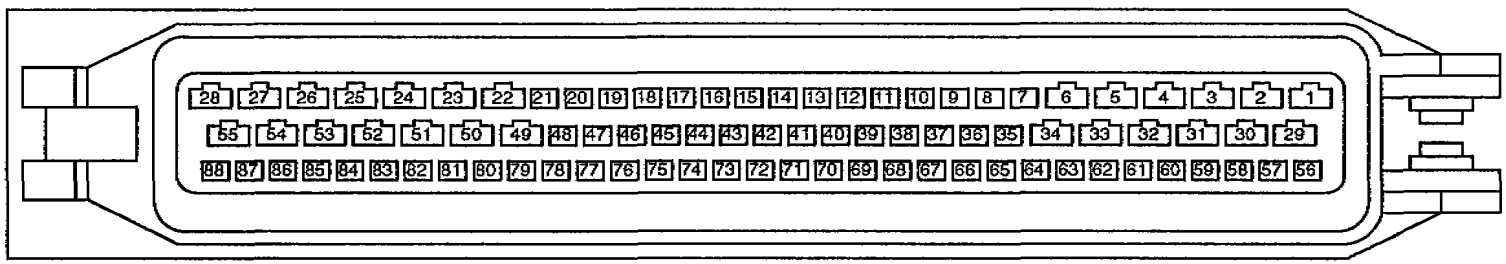


FIG. 2

B060038.00

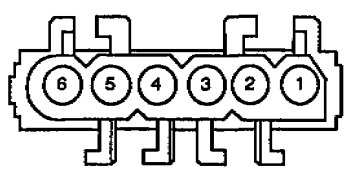
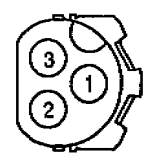


FIG. 3

B030006.00



CONNECTOR VIEWS

FIG. 1

B060012.00

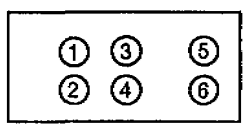


FIG. 2

B040023.00

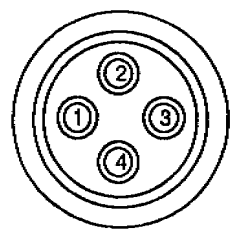


FIG. 3

B030018.00

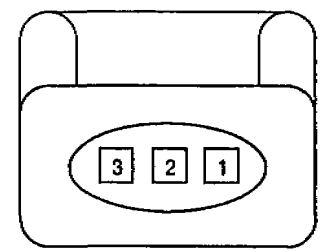


FIG. 4

B030015.08

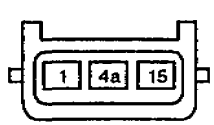


FIG. 5

B030023.00

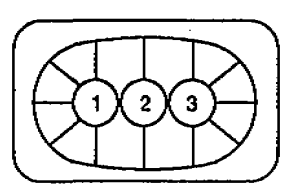


FIG. 6

B040020.00

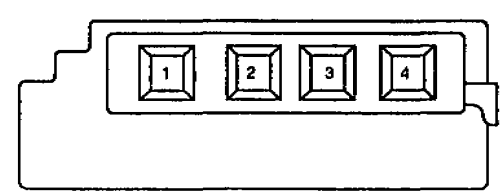


FIG. 1

B030025.00

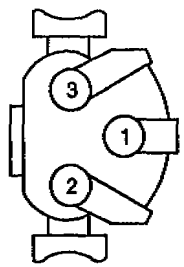


FIG. 2

B060037.01

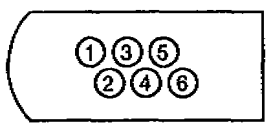


FIG. 3

B030001.00

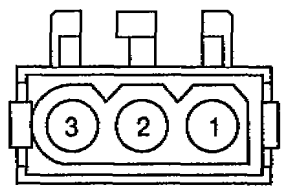


FIG. 4

B060001.00

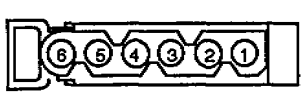


FIG. 5

B120004.05

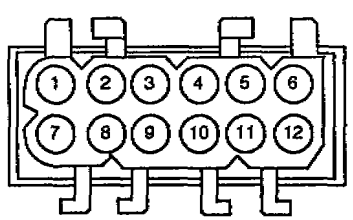


FIG. 6

B060009.00

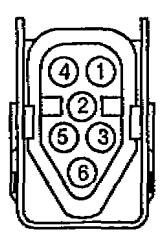


FIG. 1

B100004.01

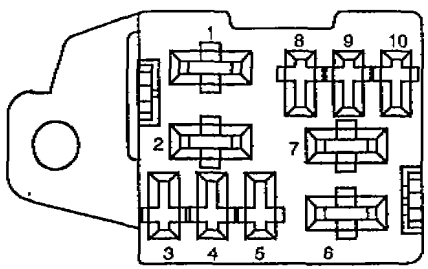


FIG. 2

B180002.00

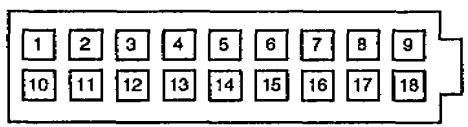


FIG. 3

B060042

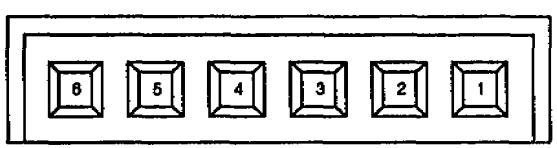


FIG. 4

B100007.00

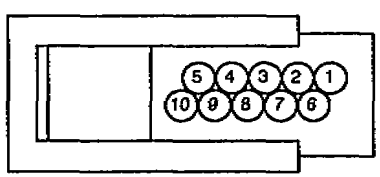


FIG. 1

B030042.01

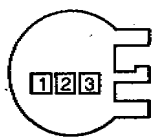
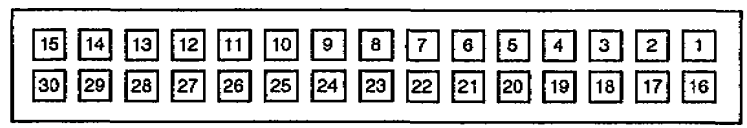
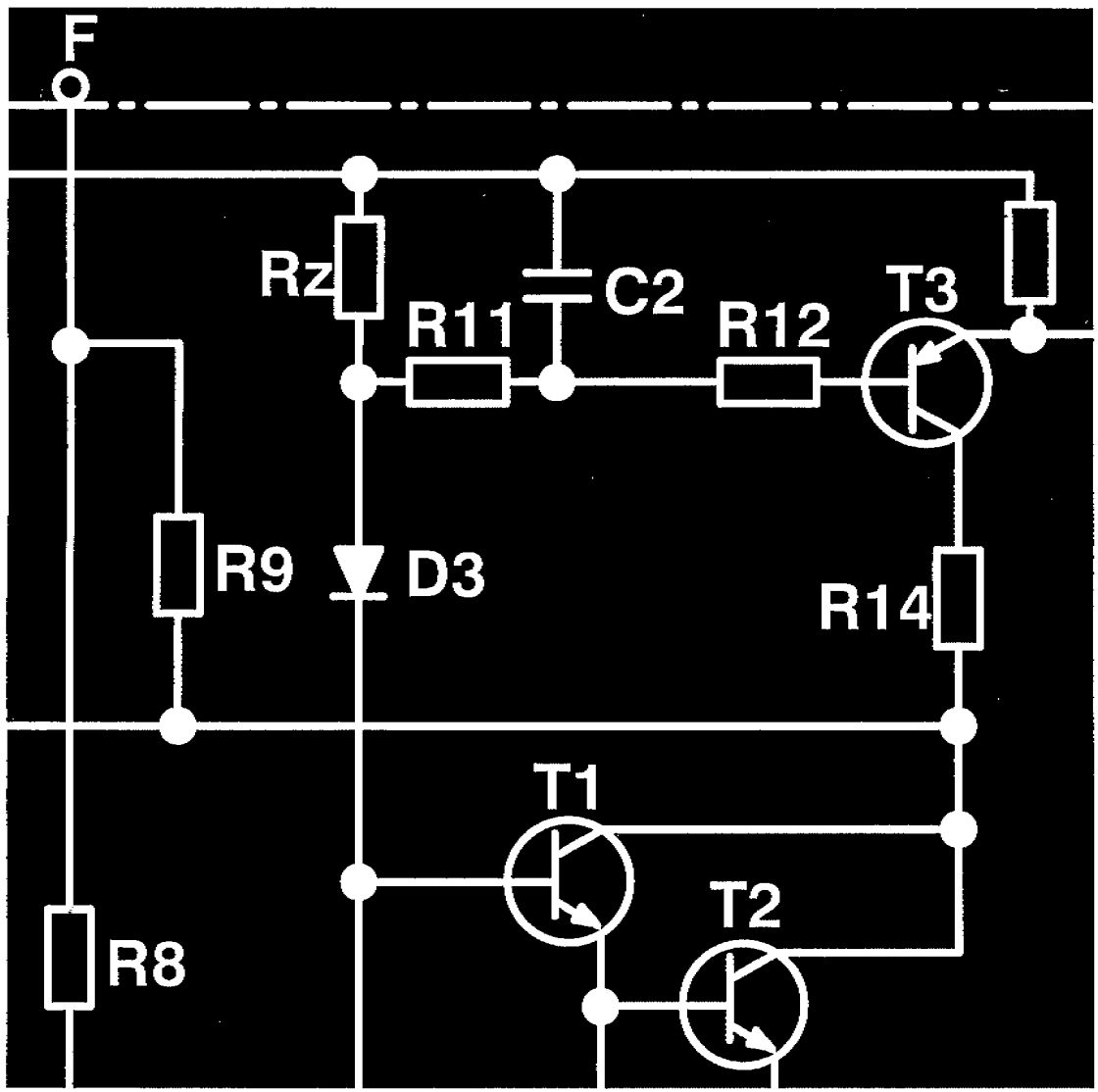


FIG. 2

B300004.00





1995

BMW 318i/s/c, 320i, 325i/s/c, M3 (E36)

Electrical Troubleshooting Manual

Vehicles Produced 9/94 to Present

PN 01 00 1 469 491

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

SERIES 3 – E36 (318i, 318is, 320i, 325i, 325is, M3, INCL. CONVERTIBLE)

SCHEMATICS MODEL YEAR 1995

0100.0	INDEX
0110.0	INTRODUCTION
0140.0	SYMBOLS
0670.0	POWER DISTRIBUTION CHART
0670.1	FUSE CHART
0670.2	POWER DISTRIBUTION
0670.3	FUSE DETAILS
0670.4	GROUND DISTRIBUTION
0670.5	DATA LINK
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)
1210.10	ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)
1230.0	CHARGING SYSTEM
1240.0	START
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)
3450.0	SLIP CONTROL (ABS)
3450.1	SLIP CONTROL (ABS/ASC)
5116.0	POWER MIRRORS
5126.0	ZKE CENTRAL LOCKING (ZV)
5133.1	POWER WINDOWS (FH)
5200.0	POWER SEATS
5203.0	HEATED SEATS
5410.1	POWER SUN ROOF (SHD)
5430.0	ELECTRO–MECHANICAL CONVERTIBLE TOP
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)
6133.0	HORN
6135.0	DRIVE–AWAY PROTECTION (EWS II)
6160.1	WIPER/WASHER MODULE (WWM)
6167.1	HEADLIGHT WASHER (SRA)
6211.0	INSTRUMENT CLUSTER
6213.2	MULTI–FUNCTION CLOCK
6214.0	ON–BOARD DISPLAY

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PART NUMBER 01 00 1 470 218

SCHEMATICS

6300.0	LIGHT SWITCH DETAILS
6312.0	HEADLIGHTS/FOG LIGHTS
6313.0	TURN/HAZARD LIGHTS
6314.0	PARK/TAIL/UNDERHOOD LIGHTS
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS
6322.0	BACK UP LIGHTS
6325.0	BRAKE LIGHTS
6330.3	INTERIOR LIGHTS
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ ASHTRAY LIGHT/CHARGING SOCKET/ CIGAR LIGHTER
6350.0	CRASH CONTROL MODULE
6412.5	PARK VENTILATION WITH IHKR
6424.0	REAR WINDOW DEFOGGER
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)
6510.0	RADIO/CD PLAYER (PROVISIONS)
6510.1	RADIO/HIFI
6561.0	CELLULAR TELEPHONE (PROVISIONS)
6571.0	CRUISE CONTROL (TEMPOMAT)
6575.2	ANTI–THEFT SYSTEM (ALPINE)
6581.2	ON–BOARD COMPUTER (BC V)
7000.0	COMPONENT LOCATION CHART
7100.0	COMPONENT LOCATION VIEWS
8000.0	SPLICE LOCATION VIEWS
8500.0	CONNECTOR VIEWS

ABS HYDRAULIC UNIT, Y1 ..... 3450.0–01
ABS HYDRAULIC UNIT, Y1w 3450.1–01
ABS PEDAL TRAVEL SENSOR, S123 ..... 3450.
ABS PUMP MOTOR RELAY, K75 ..... 3450.
ABS RELAY, K10 ..... 3450.
AIR BAG GAS GENERATOR, DRIVER'S, G5 ..... 3234.0–00
AIR BAG GAS GENERATOR, PASSENGER'S, G6 ..... 3234.0–00
AIR CONDITIONING COMPRESSOR, Y2 ..... 6450.4–05
AIR FLOW SENSOR, B6233 ..... 1210.9–05
AIR PUMP, M6133 ..... 1210.14–06
ANTENNA AMPLIFIER AM/FM, N8 ..... 6424.0–00
ANTI–THEFT CONTROL MODULE (ALPINE), N12w 6575.2–00
ANTI–THEFT HORN (ALPINE), H1w 6575.2–02
ANTI–THEFT SYSTEM (ALPINE) 6575.2–00
ASC DIODE, V7 ..... 3450.1–00
ASC SWITCH, S6 ..... 3450.1–02
ASHTRAY LIGHT, FRONT, E25 ..... 6332.1–00
ASHTRAY LIGHT, REAR, E28y 6300.0–03
AUTOMATIC TRANSMISSION RANGE SWITCH, S3 ..... 2460.
AUXILIARY FAN MOTOR, M9 ..... 6450.4–06
AUXILIARY FUSE BOX, P95 ..... 0670.2–04
AUXILIARY THROTTLE POSITION MOTOR (ADS), M93 . 3450.1–02
AUXILIARY THROTTLE POSITION SENSOR, R31 ..... 3450.1–04
AUXILIARY TURN LIGHT, LEFT FRONT, H9 ..... 6313.0–02
AUXILIARY TURN LIGHT, RIGHT FRONT, H8 ..... 6313.0–02
B+ JUMP START JUNCTION POINT, G6430 ..... 0670.2–00
BACK UP LIGHT, LEFT, H27 ..... 6322.0–00
BACK UP LIGHT, RIGHT, H28 ..... 6322.0–00
BACK UP LIGHTS 6322.0–00
BATTERY, G1 ..... 0670.2–00
BLOWER MOTOR, M30 ..... 6450.4–01
BLOWER RELAY, K4 ..... 6450.4–00
BLOWER RESISTORS, R11 ..... 6450.4–01
BLOWER SWITCH, S75 ..... 6450.4–01
BODY ELECTRONICS CONTROL MODULE (ZKE IV), A104 ..... 6100.0–00
BRAKE FLUID LEVEL SWITCH, B18 ..... 6211.0–00
BRAKE LIGHT SWITCH, S29 ..... 6325.0–00
BRAKE LIGHT SWITCH, S30 ..... 6325.0–01
BRAKE LIGHT, LEFT, H24 ..... 6325.0–00
BRAKE LIGHT, RIGHT, H31 ..... 6325.0–00
BRAKE LIGHTS 6325.0–00
BRAKE PAD SENSOR, LEFT FRONT, B16 ..... 6211.0–01
BRAKE PAD SENSOR, RIGHT REAR, B17 ..... 6211.0–01
CAMSHAFT ACTUATOR, B6208 ..... 1210.
CAMSHAFT ACTUATOR, Y6208 ..... 1210.10–05
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION), B6204 ..... 1210.
CASSETTE BOX LIGHT, E45y 6300.0–00
CD CHANGER, N22 ..... 6510.1–00
CELLULAR TELEPHONE (PROVISIONS) 6561.0–00
CENTRAL BODY ELECTRONICS (ZKE IV) 6100.0–00
CENTRAL POWER WINDOW SWITCH, S40y 5133.1–03
CHANGE–OVER VALVE, Y5013 ..... 1210.14–06
CHARGING SYSTEM 1230.0–00
CHECK CONTROL MODULE, A4 ..... 6581.2–03
CHILD PROTECTION CONTROL (CONSOLE), S130 .... 5133.1–02
CHIME MODULE, H10 ..... 6581.2–01
CIGAR LIGHTER LIGHT, FRONT, E29 ..... 6300.0–03
CIGAR LIGHTER, FRONT, E28 ..... 6332.1–00
CLUTCH SWITCH, S32 ..... 6525.0–00
COMBINATION SWITCH, S7 ..... 6312.0–00
COMFORT RELAY, K114 ..... 0670.2–08
COMPONENT LOCATION CHART 7000.0–00

COMPONENT LOCATION VIEWS 7100.0–00
COMPRESSOR CONTROL RELAY, K19 ..... 6450.4–05
CONNECTOR VIEWS 8500.0–00
CONTACT RING, C101 ..... 3234.0–00
CONVERTIBLE TOP ACTUATING SWITCH, S143 ..... 5430.0–01
CONVERTIBLE TOP CONTROL MODULE, A96 ..... 5430.0–00
CONVERTIBLE TOP END–POSITION MICRO SWITCH, S164 ..... 5430.0–01
CONVERTIBLE TOP MOTOR, M101 ..... 5430.0–02
CONVERTIBLE TOP POSITION MICRO SWITCH, S165 ..... 5430.0–01
CONVERTIBLE TOP STORAGE LID LOCK MOTOR, M43 ..... 5430.0–02
CONVERTIBLE TOP STORAGE LID MICRO SWITCH, S214 ..... 5430.0–02
CONVERTIBLE TOP STORAGE LID MOTOR, M100 ..... 5430.0–02
CRANKSHAFT POSITION/RPM SENSOR, B6203 ..... 1210.
CRASH CONTROL MODULE 6350.0–00
CRASH CONTROL MODULE, N17 ..... 6350.0–01
CRUISE CONTROL (TEMPOMAT) 6571.0–00
CRUISE CONTROL ACTUATOR (TEMPOMAT), M25 .... 6571.0–01
CRUISE CONTROL MODULE (TEMPOMAT), A8 ..... 6571.0–00
CRUISE CONTROL SWITCH, S28 ..... 6571.0–00
DASH VENT MIXING FLAP MOTOR, M34 ..... 6450.4–04
DATA LINK 0670.5–00
DATA LINK CONNECTOR, D100 ..... 0670.5–00
DAYTIME RUNNING LIGHTS CODING DIODE, V4 ..... 6314.0–02
DEFOGGER RELAY, REAR, K13 ..... 6424.0–00
DEFOGGER/ANTENNA, REAR, E10 ..... 6424.0–02
DELAY RELAY, K6314 ..... 1210.13–01
DIMMER, N3 ..... 6300.0–00
DIVERSITY, N404 ..... 6424.0–03
DOME LIGHT/MAP READING ASSEMBLY, FRONT, E34 ..... 6330.3–00
DOOR CONTACT, LEFT REAR, S125 ..... 6330.3–01
DOOR CONTACT, RIGHT REAR, S124 ..... 6330.3–01
DOOR JAMB SWITCH, DRIVER'S, S14 ..... 6330.3–01
DOOR JAMB SWITCH, PASSENGER'S, S13 ..... 6330.3–01
DOOR LOCK MOTOR, DRIVER'S, M12 ..... 5126.0–00
DOOR LOCK MOTOR, LEFT REAR, M15 ..... 5126.0–01
DOOR LOCK MOTOR, PASSENGER'S, M13 ..... 5126.0–00
DOOR LOCK MOTOR, RIGHT REAR, M14 ..... 5126.0–01
DOUBLE RELAY, K5029 ..... 1210.14–00
DRIVE–AWAY PROTECTION (EWS II) 6135.0–00
ELECTRO–MECHANICAL CONVERTIBLE TOP 5430.0–00
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II), A836 ..... 6135.0
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 2460.2–00
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z) 2460.4–00
ENGINE CONTROL MODULE (DME), A6000 ..... 1210.
ENGINE CONTROL MODULE RELAY, K6300 ..... 1210.
ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42) 1210.9–00
ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50) 1210.13–00
ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30) 1210.14–00
ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50) 1210.10–00
ENGINE COOLANT LEVEL SWITCH, S63 ..... 6581.2–03
ENGINE COOLANT TEMPERATURE SENSOR, B6232 .. 6211.0–02
ENGINE COOLANT TEMPERATURE SENSOR, B6236 ..... 1210.

ENGINE HOOD SWITCH, S21w 6575.2–02
EVAPORATIVE EMISSION VALVE, Y6120 ..... 1210.
EVAPORATOR TEMPERATURE SENSOR, B14 ..... 6450.4–03
FM AMPLIFIER HLO, N444 ..... 6424.0–03
FOG LIGHT RELAY, FRONT, K47 ..... 6312.0–00
FOG LIGHT SWITCH, REAR, S82 ..... 6312.0–02
FOG LIGHT SWITCH, S10 ..... 6312.0–00
FOG LIGHT, LEFT REAR, H26 ..... 6312.0–02
FOG LIGHT, LEFT, E26 ..... 6312.0–00
FOG LIGHT, RIGHT, E27 ..... 6312.0–00
FRESH AIR FLAP MOTOR, M36 ..... 6450.4–04
FUEL INJECTION VALVE, CYL. 1, Y6101 ..... 1210.
FUEL INJECTION VALVE, CYL. 2, Y6102 ..... 1210.
FUEL INJECTION VALVE, CYL. 3, Y6103 ..... 1210.
FUEL INJECTION VALVE, CYL. 4, Y6104 ..... 1210.
FUEL INJECTION VALVE, CYL. 5, Y6105 ..... 1210.
FUEL INJECTION VALVE, CYL. 6, Y6106 ..... 1210.
FUEL LEVEL SENSOR, B6 ..... 6211.0–04
FUEL PUMP RELAY, CYL. 1–6, K6301 ..... 1210.
FUEL PUMP RELAY, K6301w 1210.9–03
FUEL PUMP, M2 ..... 1210.
FUEL PUMP/START IDENTIFICATION RELAY, K6307 .. 1210.14–02
FUEL TANK SENSOR II, B25y 6211.0–04
FUSE CHART 0670.1–00
FUSE DETAILS 0670.3–00
GAS FILLER LOCK MOTOR, M16 ..... 5126.0–01
GENERATOR, G6509 ..... 1230.0–00
GLOVE BOX LIGHT, E42 ..... 6332.1–00
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/
CHARGING SOCKET/CIGAR LIGHTER 6332.1–00
GLOVE BOX LOCK MOTOR, M107 ..... 5126.0–01
GROUND DISTRIBUTION 0670.4–00
HALL EFFECT CAMSHAFT SENSOR, B6209 ..... 1210.13–01
HARD TOP CONNECTOR 1, E99 ..... 5430.0–00
HARD TOP CONNECTOR 2, E100y 6330.3–03
HAZARD FLASHER RELAY, K16 ..... 6313.0–00
HAZARD SWITCH, S18 ..... 6313.0–01
HEADLIGHT WASHER (SRA) 6167.1–00
HEADLIGHT, LEFT, E7 ..... 6313.0–02
HEADLIGHT, RIGHT, E8 ..... 6313.0–02
HEADLIGHT/FOG LIGHT WASHER PUMP, M7 ..... 6167.1–00
HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA),
N6 ..... 6167.1–00
HEADLIGHTS/FOG LIGHTS 6312.0–00
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 6450.4–03
HEAT EXCHANGER TEMPERATURE SENSOR, RH, B12 6450.4–03
HEATED OXYGEN SENSOR 2, B5028 ..... 1210.14–06
HEATED OXYGEN SENSOR, B6200 ..... 1210.
HEATED SEATS 5203.0–00
HIFI AMPLIFIER, A18 ..... 6510.1–00
HIGH BEAM LIGHT RELAY, K46 ..... 6312.0–01
HIGH BEAM LIGHT, LEFT, E11 ..... 6312.0–01
HIGH BEAM LIGHT, RIGHT, E12 ..... 6312.0–01
HIGH LEVEL STOP LIGHT, H34 ..... 6325.0–00
HIGH RANGE SPEAKER, LEFT FRONT, H59 ..... 6510.1–01
HIGH RANGE SPEAKER, LEFT REAR, H56 ..... 6510.1–01
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.0–00
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.1–02
HIGH RANGE SPEAKER, RIGHT REAR, H53 ..... 6510.1–02
HIGH SPEED RELAY, K22 ..... 6450.4–06
HORN 6133.0–00
HORN RELAY (ALPINE), K108 ..... 6575.2–02
HORN RELAY, K2 ..... 6133.0–00
HORN SWITCH, S4 ..... 6133.0–00

INDEX

HORN, LEFT, H2 ..... 6133.0–00
HORN, RIGHT, H3 ..... 6133.0–00
HOT FILM AIR MASS METER, B6217 ..... 1210.13–05
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.
IGNITION COIL, CYL. 1, T6151 ..... 1210.
IGNITION COIL, CYL. 2, T6152 ..... 1210.
IGNITION COIL, CYL. 3, T6153 ..... 1210.
IGNITION COIL, CYL. 4, T6154 ..... 1210.
IGNITION COIL, CYL. 5, T6155 ..... 1210.
IGNITION COIL, CYL. 6, T6156 ..... 1210.
IGNITION SWITCH, S2 ..... 0670.2–05
IHKR CONTROL PANEL, S134y 6450.4–02
INDEX 0100.0–00
INERTIA SWITCH, S27 ..... 5126.0–02
INSTRUMENT CLUSTER 6211.0–00
INSTRUMENT CLUSTER, A2 ..... 6211.0–00
INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131 ..... 1210.9–01
INTAKE AIR TEMPERATURE SENSOR, B6205 ..... 1210.
INTEGRATED CLIMATE REGULATION CONTROL MODULE, A87y 6450.4–00
INTEGRATED CLIMATE REGULATION (IHKR E36) 6450.4–00
INTENSIVE WASH PUMP, M5 ..... 6160.1–01
INTERIOR LIGHT, LEFT REAR, E39 ..... 6330.3–00
INTERIOR LIGHT, RIGHT REAR, E40 ..... 6330.3–00
INTERIOR LIGHTS 6330.3–00
INTRODUCTION 0110.0–00
KICK–DOWN SWITCH, S8507 ..... 2460.2–04
KNOCK SENSOR, CYL. 1–2, B6241 ..... 1210.9–05
KNOCK SENSOR, CYL. 1–3, B6241w ..... 1210.
KNOCK SENSOR, CYL. 3–4, B6242 ..... 1210.9–05
KNOCK SENSOR, CYL. 4–6, B6242w ..... 1210.
KNOCK SENSOR, CYL. 5–6, B6243 ..... 1210.14–05
LICENSE PLATE LIGHT, LEFT, E43 ..... 6320.0–00
LICENSE PLATE LIGHT, RIGHT, E44 ..... 6320.0–00
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS .. 6320.0–00
LIGHT SWITCH DETAILS 6300.0–00
LIGHT SWITCH, S8 ..... 6300.0–00
LOW BEAM LIGHT RELAY, K48 ..... 6312.0–01
LOW BEAM LIGHT, LEFT, E13 ..... 6312.0–01
LOW BEAM LIGHT, RIGHT, E14 ..... 6312.0–01
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.0–00
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.1–01
LOW RANGE SPEAKER, LEFT REAR, H57 ..... 6510.1–01
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.0–00
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.1–02
LOW RANGE SPEAKER, RIGHT REAR, H52 ..... 6510.1–02
MAKE–UP MIRROR LIGHT, DRIVER'S, E35 ..... 6330.3–00
MAKE–UP MIRROR LIGHT, PASSENGER'S, E36 ..... 6330.3–00
MAKE–UP MIRROR SWITCH, DRIVER'S, S77 ..... 6330.3–00
MAKE–UP MIRROR SWITCH, PASSENGER'S, S78 .... 6330.3–00
MICROPHONE, B400 ..... 6561.0–00
MID–HIGH RANGE SPEAKER, LEFT, H42 ..... 6510.1–01
MID–HIGH RANGE SPEAKER, RIGHT, H43 ..... 6510.1–02
MIDRANGE SPEAKER, LEFT FRONT, H55 ..... 6510.1–01
MIDRANGE SPEAKER, RIGHT FRONT, H54 ..... 6510.1–02
MIRROR CONTROL SWITCH, S17 ..... 5116.0–00
MIRROR, DRIVER'S, SIDE Y5 ..... 5116.0–01
MIRROR, PASSENGER'S SIDE, Y6 ..... 5116.0–01
MULTI–FUNCTION CLOCK 6213.2–00
MULTI–FUNCTION CLOCK, N10 ..... 6213.2–00
NORMAL SPEED RELAY, K21 ..... 6450.4–06
OIL PRESSURE SWITCH, B6231 ..... 6211.0–00
OIL TEMPERATURE SENSOR, B6238 ..... 6211.0–04

ON-BOARD COMPUTER (BC V) 6581.2-00
ON-BOARD COMPUTER TEMPERATURE SENSOR, B21 ..... 6581.2-00
ON-BOARD COMPUTER, N4 ..... 6581.2-00
ON-BOARD DISPLAY 6214.0-00
ON-BOARD DISPLAY, A35 ..... 6214.0-00
OUTSIDE TEMPERATURE SENSOR, B13 ..... 6450.4-03
OXYGEN SENSOR RELAY, K6303 ..... 1210.
PARK BRAKE SWITCH, S31 ..... 6211.0-00
PARK LIGHT, LEFT, E15 ..... 6314.0-01
PARK LIGHT, RIGHT, E19 ..... 6314.0-01
PARK VENTILATION RELAY, K450 ..... 6412.5.0-00
PARK VENTILATION WITH IHKR 6412.5-00
PARK/TAIL/UNDERHOOD LIGHTS 6314.0-00
POWER DISTRIBUTION 0670.2-00
POWER DISTRIBUTION BOX, FRONT, P90 ..... 0670.2-00
POWER DISTRIBUTION CHART 0670.0-00
POWER MIRRORS 5116.0-00
POWER SEATS 5200.0-00
POWER SUN ROOF (SHD) 5410.0-00
POWER WINDOW SWITCH, DRIVER'S, S126y 5133.1-01
POWER WINDOW SWITCH, PASSENGER'S, S127y 5133.1-01
POWER WINDOWS (FH) 5133.1-00
PRESSURE SWITCH, B9508 ..... 6450.4-06
PROGRAM SWITCH, S8503 ..... 2460.
RADIO MICROSWITCH, S20y 6575.2-02
RADIO, N9 ..... 6510.0-00
RADIO/CD PLAYER (PROVISIONS) 6510.0-00
RADIO/HIFI 6510.1-00
REAR DOOR (CONSOLE)
POWER WINDOW SWITCH, RH, S129y 5133.1-02
REAR DOOR (CONSOLE)
POWER WINDOW SWITCH, LH, S128y 5133.1-02
REAR POWER WINDOW SWITCH, LH, S128z 5133.1-03
REAR POWER WINDOW SWITCH, RH, S129z 5133.1-03
RECIRCULATION FLAP MOTOR, M40 ..... 6450.4-04
RESISTOR, R8554 ..... 1210.13-04
REVERSING LIGHT SWITCH, S8511 ..... 6322.0-00
ROLLOVER PROTECTION ACTUATOR, LH, Y85 ..... 5430.0-03
ROLLOVER PROTECTION ACTUATOR, RH, Y86 ..... 5430.0-03
ROLLOVER SENSOR, N24 ..... 5430.0-03
SEAT BELT SWITCH, DRIVER'S, S58 ..... 3234.0-00
SEAT BELT SWITCH, PASSENGER'S, S59 ..... 3234.0-00
SEAT CONTROL SWITCH, DRIVER'S SEAT, S51 ..... 5200.0-00
SEAT CONTROL SWITCH, PASSENGER'S SEAT, S56 ..... 5200.0-01
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-00
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 ..... 5200.0-01
SEAT HEATER SWITCH, DRIVER'S SEAT, S53 ..... 5203.0-00
SEAT HEATER SWITCH, PASSENGER'S SEAT, S54 ..... 5203.0-00
SEAT HEATER, DRIVER'S, E57 ..... 5203.0-00
SEAT HEATER, PASSENGER'S, E58 ..... 5203.0-00
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-00
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 ..... 5200.0-01
SEAT OCCUPANCY DETECTOR, A113 ..... 3234.0-00
SEATBACK HEATER, DRIVER'S, E56 ..... 5203.0-00
SEATBACK HEATER, PASSENGER'S, E59 ..... 5203.0-00
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 ..... 5200.0-01
SHIFT-LOCK, Y19 ..... 2460.2-04
SLIP CONTROL (ABS) 3450.0-00
SLIP CONTROL (ABS/ASC) 3450.1-00

SLIP CONTROL MODULE (ABS), A7 ..... 3450.0–00
SLIP CONTROL MODULE (ABS/ASC), A52 ..... 3450.1–01
SOLENOID VALVE ("RUNNING LOSSES"), Y6550 ..... 1210.13–01
SPEAKER, LEFT REAR, H46 ..... 6510.1–01
SPEAKER, RIGHT REAR, H45 ..... 6510.0–00
SPEAKER, RIGHT REAR, H45 ..... 6510.1–02
SPEED SENSOR – ABS, LEFT FRONT, B2 ..... 3450.
SPEED SENSOR – ABS, LEFT REAR, B4 ..... 3450.
SPEED SENSOR – ABS, RIGHT FRONT, B1 ..... 3450.
SPEED SENSOR – ABS, RIGHT REAR, B3 ..... 3450.
SPLICE LOCATION VIEWS 8000.0–00
START 1240.0–00
STARTER IMMOBILIZATION RELAY, K1w 5126.0–03
STARTER, M6510 ..... 1240.0–01
SUNROOF CONTROL ASSEMBLY, A56 ..... 5410.1–01
SUNROOF MOTOR, M24 ..... 5410.1–01
SUNROOF SWITCH, S38 ..... 5410.1–01
SUPPLEMENTAL RESTRAINT SYSTEM
CONTROL MODULE, A12 ..... 3234.0–00
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0–00
SUPPRESSION FILTER, C900 ..... 6424.0–01
SYMBOLS 0140.0–00
TAIL LIGHT, LEFT, H25 ..... 6314.0–01
TAIL LIGHT, LEFT, H37 ..... 6314.0–01
TAIL LIGHT, RIGHT, H30 ..... 6314.0–01
TAIL LIGHT, RIGHT, H39 ..... 6314.0–01
TELEPHONE HANDSET, U4 ..... 6561.0–00
TELEPHONE TRANSCEIVER, H38 ..... 6561.0–00
TEMPERATURE SWITCH, S36 ..... 6450.4–06
THROTTLE FLAP HEATER, E104 ..... 3450.1–02
THROTTLE POSITION SENSOR, R6252 ..... 1210.9–05
TRANSMISSION CONTROL MODULE (EGS), A7000 ... 2460.4–00
TRANSMISSION CONTROL MODULE (EGS), A8500 ... 2460.2–00
TRANSMISSION POSITION INDICATOR LIGHT, E82 .... 2460.2–03
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2–01
TRANSMISSION VALVE UNIT, Y8505y 2460.4–01
TRANSMITTER MODULE (EWS II), A835 ..... 6135.0
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0–00
TRUNK COMPARTMENT LIGHT, LEFT, E101 ..... 6320.0–00
TRUNK COMPARTMENT LIGHT, RIGHT, E102 ..... 6320.0–00
TRUNK LID MICRO SWITCH, S213 ..... 5430.0–02
TRUNK LID RELAY, K117 ..... 5126.0–01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6312.0–04
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6313.0–02
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6314.0–01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6322.0–00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6325.0–01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2–04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6312.0–04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6313.0–02
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6314.0–01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6322.0–00
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6325.0–01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2–04
TRUNK LIGHT SWITCH, S61y 6320.0–00
TRUNK LOCK MOTOR, M17 ..... 5126.2–01
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0–02
TURN LIGHT, LEFT REAR, H6 ..... 6313.0–02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0–02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0–02
TURN/HAZARD LIGHTS 6313.0–00
TWIN RELAY MODULE, N21 ..... 6160.1–01
UNCOUPLING DIODE (KL61), V9501 ..... 1210.14
UNDERHOOD LIGHT SWITCH, S19 ..... 6300.0–00

UNDERHOOD LIGHT, E20 ..... 6300.0–00
UNLOADER RELAY, TERMINAL 15, K9 ..... 5203.0–00
VARIABLE CAMSHAFT CONTROL MODULE (VANOS), A5024 ..... 1210.14–04
VARIABLE CAMSHAFT CONTROL SENSOR 1, B5022 . 1210.14–04
VARIABLE CAMSHAFT CONTROL SENSOR 2, B5023 . 1210.14–04
VARIABLE CAMSHAFT CONTROL VALVE 1, Y5020 .... 1210.14–04
VARIABLE CAMSHAFT CONTROL VALVE 2, Y5021 .... 1210.14–04
VEHICLE SPEED SENSOR, B10 ..... 6211.0–04
WASHER FLUID LEVEL SWITCH, S64 ..... 6581.2–03
WASHER PUMP, M4 ..... 6160.1–01
WATER VALVE ASSEMBLY, Y4 ..... 6450.4–02
WINDOW BLOWER MICRO SWITCH, REAR, S196 ..... 5430.0–01
WINDOW BLOWER RELAY, REAR, K99 ..... 6424.0–01
WINDOW BLOWER, REAR, M105 ..... 6424.0–01
WINDOW DEFOGGER/ANTENNA, REAR 6424.0–00
WINDOW MOTOR, DRIVER'S, M21 ..... 5133.1–04
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.1–05
WINDOW MOTOR, LEFT REAR, M98 ..... 5133.1–05
WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.1–04
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.1–05
WINDOW MOTOR, RIGHT REAR, M99 ..... 5133.1–05
WINDOW SWITCH, LEFT REAR, S41 ..... 5133.1–02
WINDOW SWITCH, RIGHT REAR, S42 ..... 5133.1–02
WIPER MOTOR RELAY, K53 ..... 6160.1–00
WIPER MOTOR, M3 ..... 6160.1–00
WIPER RELAY, K11 ..... 6160.1–00
WIPER/WASHER MODULE (WWM) 6160.1–00
WIPER/WASHER MODULE, A51 ..... 6160.1–01
WIPER/WASHER SWITCH, S5 ..... 6160.1–01
ZKE CENTRAL LOCKING (ZV) 5126.0–00

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit. They are arranged on the sheet such that the current path can be *followed from positive (top) to negative (bottom).*

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

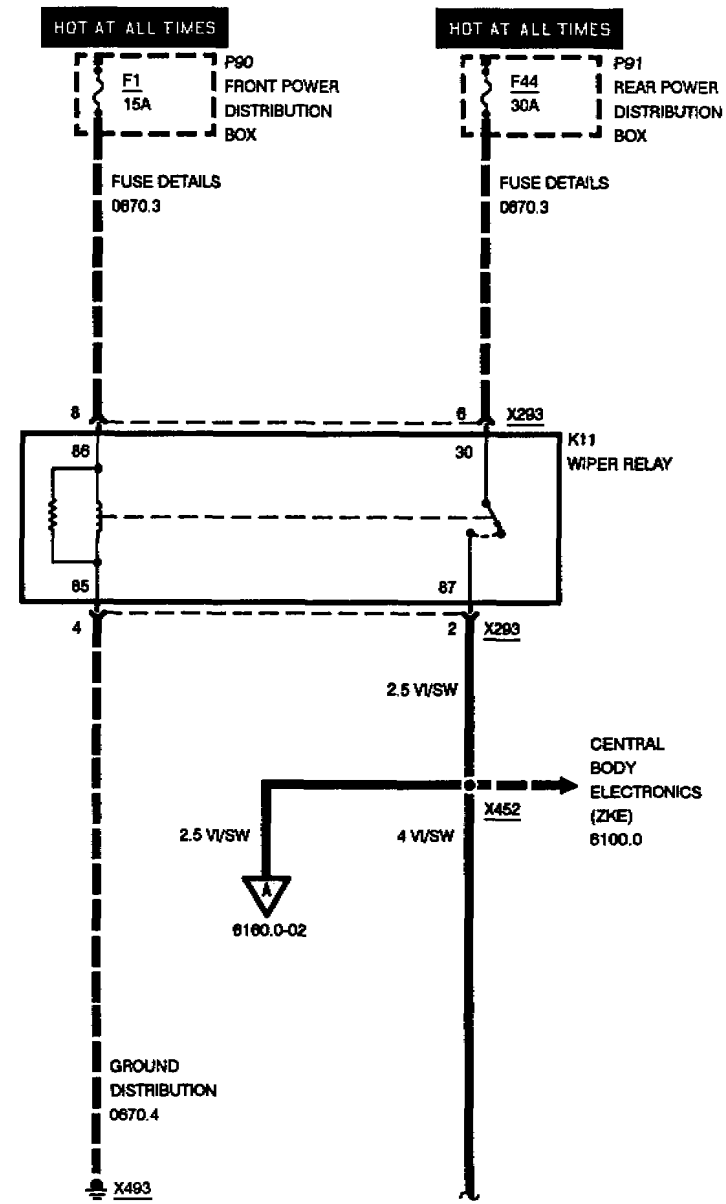
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC, etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.

7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors, and cross sections.

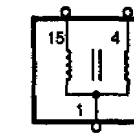
8. The interrupted line from splice X452 with an **A** in the open arrow is continued on page 6160.0–02.
Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

SYMBOLS


BATTERY


HEATING ELEMENT


VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



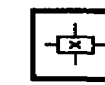
IGNITION COIL


CONTROL/POWER ELECTRONICS

FUSE DETAILS


LOUDSPEAKER OR HORN


VARIABLE RESISTOR
RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


HALL EFFECT SENSOR


FUSIBLE LINK


LIGHT


DIODE
CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


RADIO


THERMO SWITCH



PERMANENT MAGNET MOTOR
ONE SPEED


ZENER DIODE
TO REGULATE VOLTAGE



TRANSISTORIZED SWITCH

SOLENOID



PERMANENT MAGNET MOTOR
TWO SPEEDS


LIGHT EMITTING DIODE

INDUCTIVE SENSOR


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID

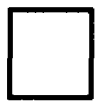

KNOCK SENSOR

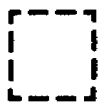

OXYGEN SENSOR

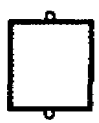


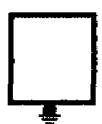
VEHICLE SPEED SENSOR

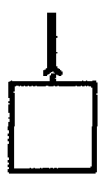
SYMBOLS

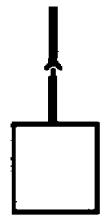

ENTIRE COMPONENT SHOWN

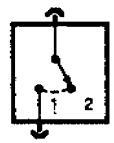

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

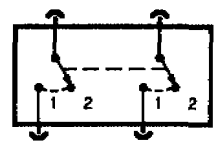

COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)


CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



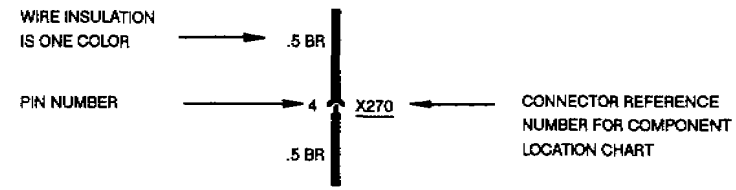
ONE POLE, TWO POSITION SWITCH

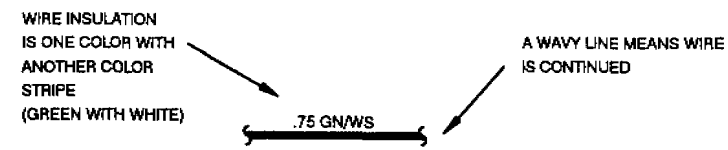


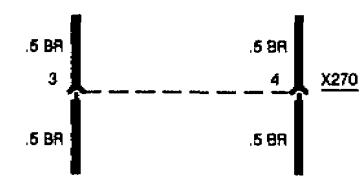
SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

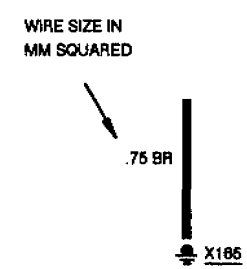






TWO CONNECTIONS (PINS) IN THE SAME CONNECTOR

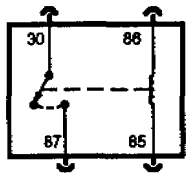
DASHED LINE INDICATES TERMINALS OF THE SAME CONNECTOR



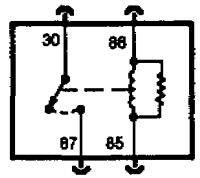
WIRE ATTACHED TO METAL PART OF CAR (GROUNDED)

GROUND NUMBERED FOR REFERENCE ON COMPONENT LOCATION CHART

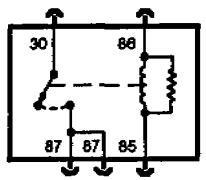
SYMBOLS



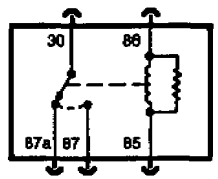
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

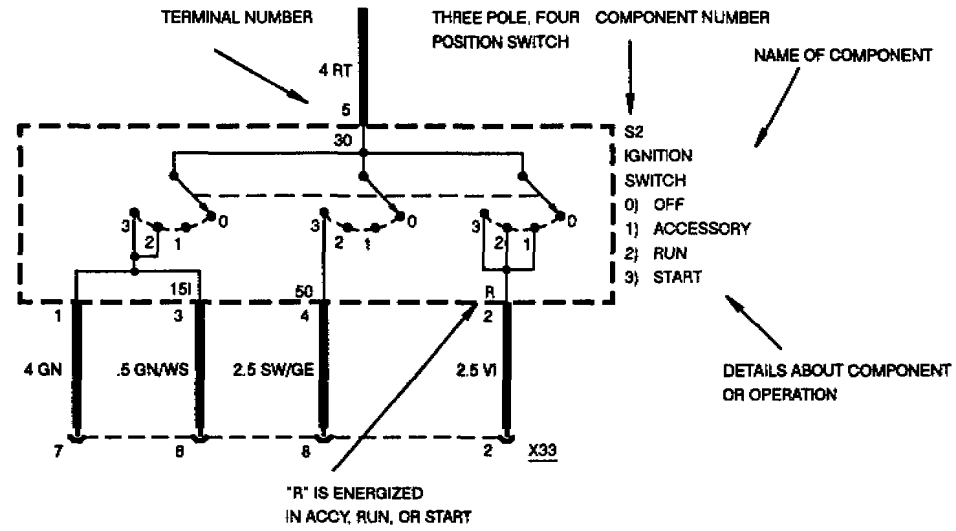


CONTACT RELAY WITH TWO OUTPUTS

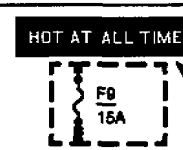


CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)



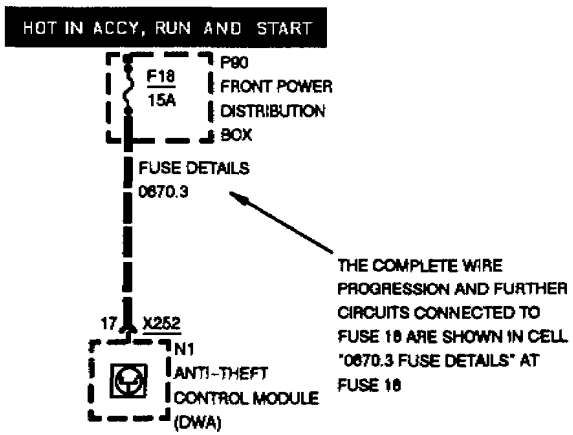
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

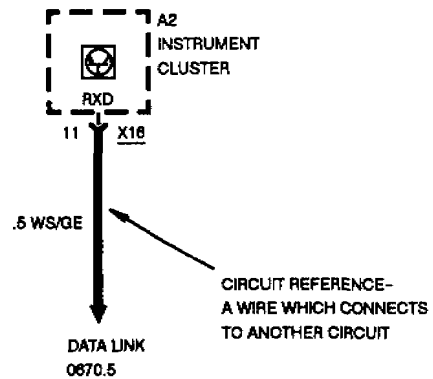


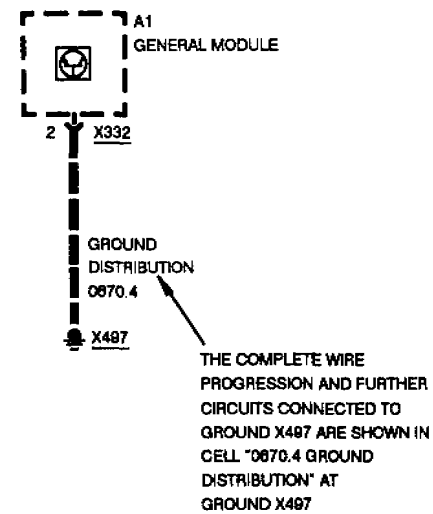
INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

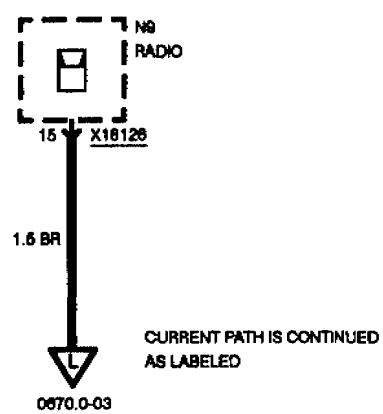
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

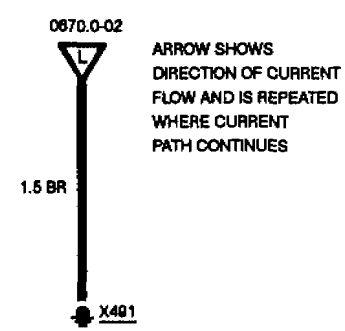
SYMBOLS

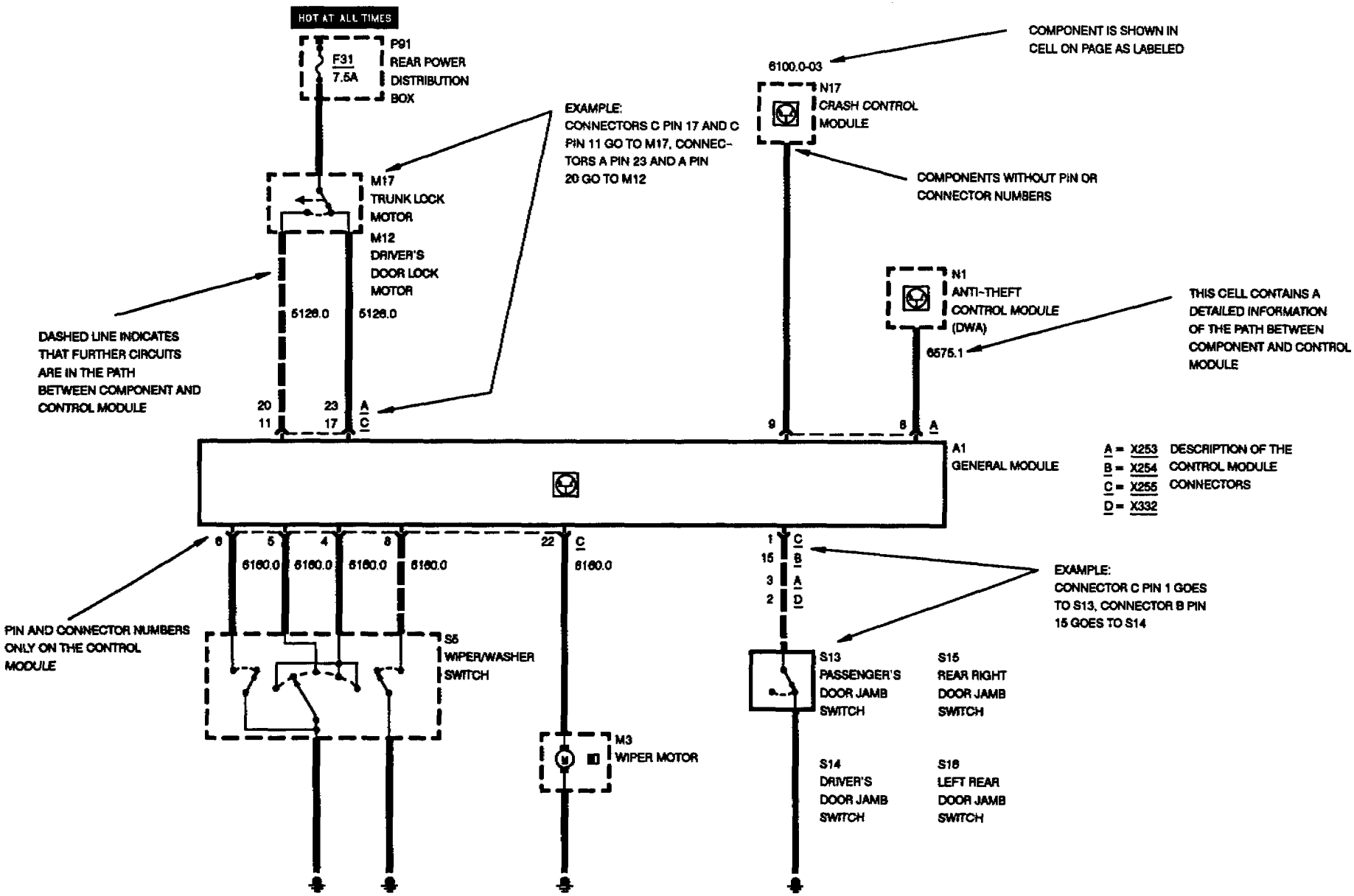

HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18
17
X252
N1
ANTI-THEFT
CONTROL MODULE
(DWA)


A2
INSTRUMENT
CLUSTER
RXD
11
X16
.5 WS/GE
CIRCUIT REFERENCE-
A WIRE WHICH CONNECTS
TO ANOTHER CIRCUIT
DATA LINK
0670.5


A1
GENERAL MODULE
2
X332
GROUND
DISTRIBUTION
0670.4
X497
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497

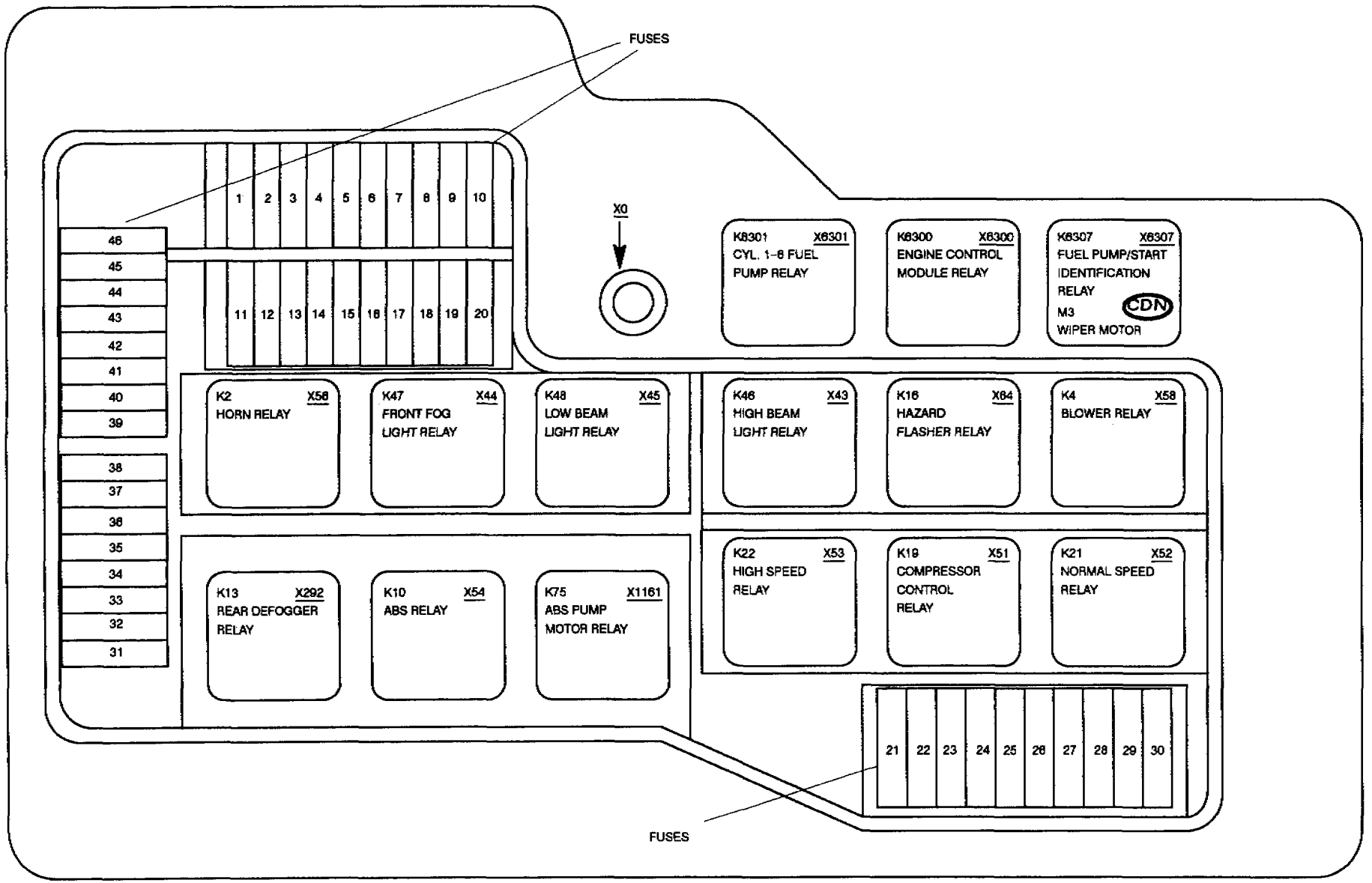

N9
RADIO
15
X18126
1.5 BR
L
CURRENT PATH IS CONTINUED
AS LABELED
0670.0-03


0670.0-02
L
ARROW SHOWS
DIRECTION OF CURRENT
FLOW AND IS REPEATED
WHERE CURRENT
PATH CONTINUES
1.5 BR
X491


HOT AT ALL TIMES
P91
REAR POWER DISTRIBUTION BOX
F31
7.5A
COMPONENT IS SHOWN IN CELL ON PAGE AS LABELED
6100.0-03
N17
CRASH CONTROL MODULE
EXAMPLE:
CONNECTORS C PIN 17 AND C PIN 11 GO TO M17, CONNECTORS A PIN 23 AND A PIN 20 GO TO M12
COMPONENTS WITHOUT PIN OR CONNECTOR NUMBERS
M17
TRUNK LOCK MOTOR
M12
DRIVER'S DOOR LOCK MOTOR
5126.0
5126.0
N1
ANTI-THEFT CONTROL MODULE (DWA)
6575.1
THIS CELL CONTAINS A DETAILED INFORMATION OF THE PATH BETWEEN COMPONENT AND CONTROL MODULE
DASHED LINE INDICATES THAT FURTHER CIRCUITS ARE IN THE PATH BETWEEN COMPONENT AND CONTROL MODULE
20
11
23
17
A
C
9
8
A
A1
GENERAL MODULE
A = X253 DESCRIPTION OF THE
B = X254 CONTROL MODULE
C = X255 CONNECTORS
D = X332
6
5
4
8
22
C
6160.0
6160.0
6160.0
6160.0
6160.0
1
15
3
2
C
B
A
D
EXAMPLE:
CONNECTOR C PIN 1 GOES TO S13, CONNECTOR B PIN 15 GOES TO S14
PIN AND CONNECTOR NUMBERS ONLY ON THE CONTROL MODULE
S5
WIPER/WASHER SWITCH
M3
WIPER MOTOR
S13
PASSENGER'S DOOR JAMB SWITCH
S15
REAR RIGHT DOOR JAMB SWITCH
S14
DRIVER'S DOOR JAMB SWITCH
S16
LEFT REAR DOOR JAMB SWITCH

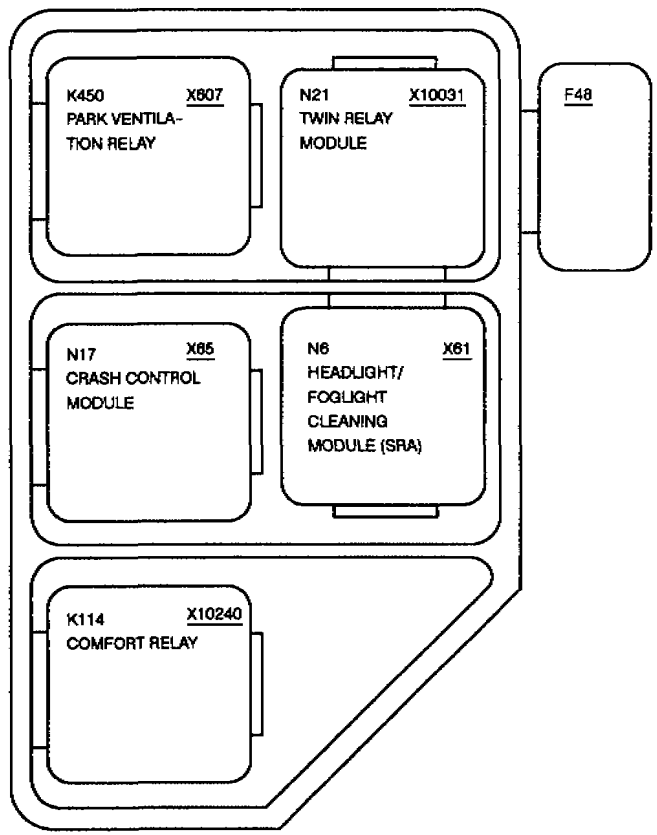
POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX



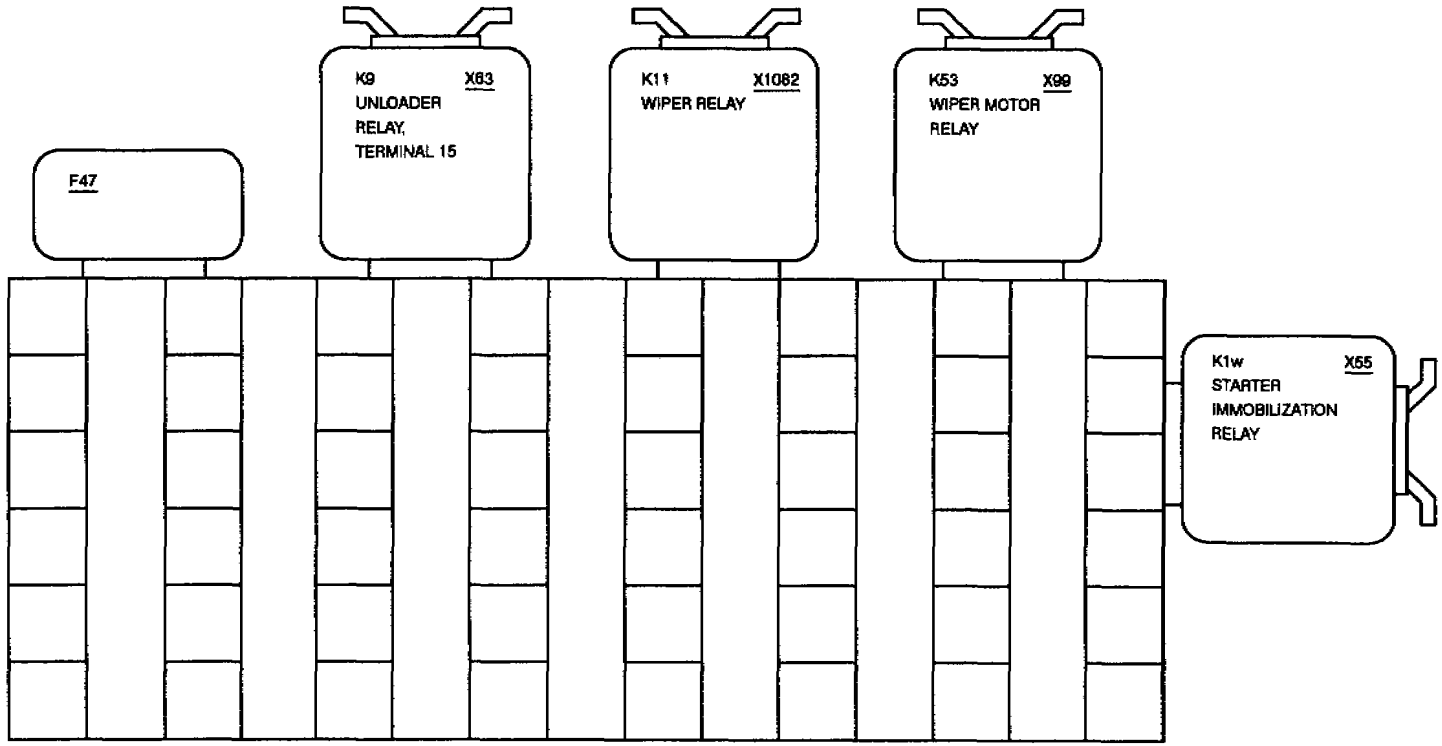
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



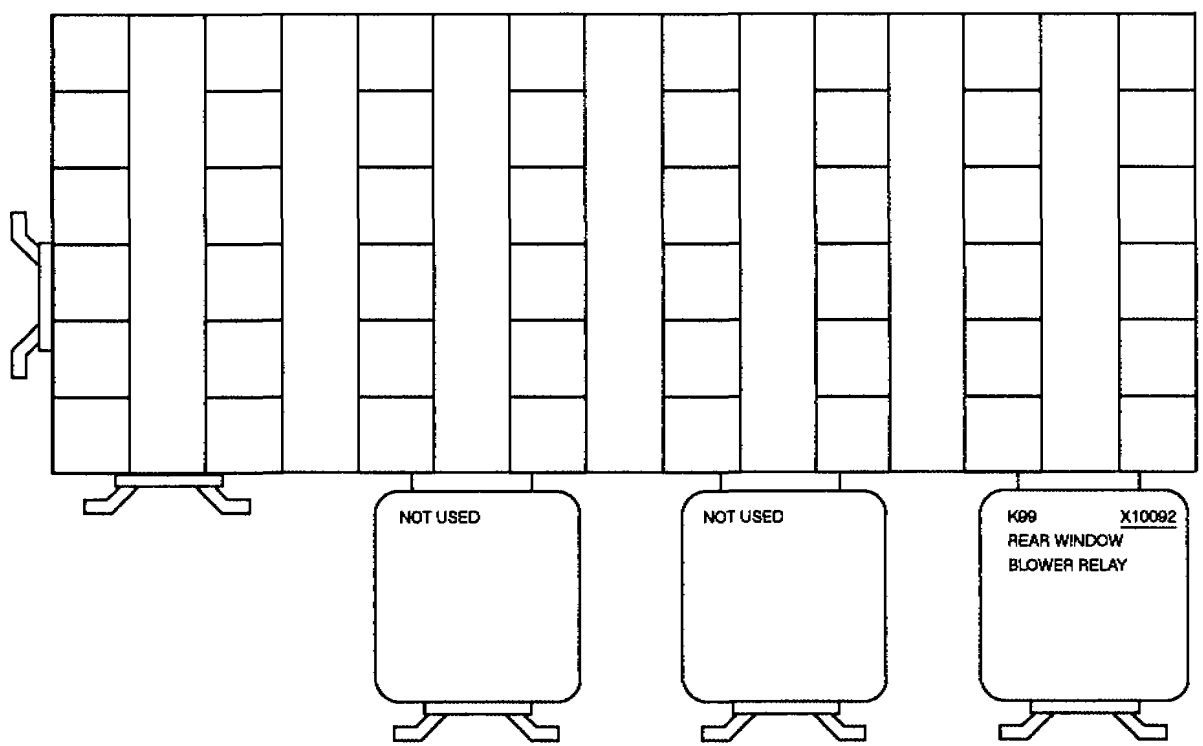
POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																●		●										●	
1210.10	ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)																●		●										●	
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																●		●										●	
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)																●		●											
1230.0	CHARGING SYSTEM																													
1240.0	START																										●		●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																										●		●	
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																													
3450.0	SLIP CONTROL (ABS)										●											●		●				●		
3450.1	SLIP CONTROL (ABS/ASC)										●											●					●	●		
5116.0	POWER MIRRORS																								●					
5126.0	ZKE CENTRAL LOCKING (ZV)							●																			●		●	
5133.1	POWER WINDOWS (FH)														●					●										
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER SUN ROOF (SHD)	●												●																
5430.0	ELECTRO- MECHANICAL CONVERTIBLE TOP							●																				●		
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)							●							●															
6133.0	HORN								●																					

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6160.1	WIPER/WASHER MODULE (WWM)																													
6167.1	HEADLIGHT WASHER (SRA)			●																										
6211.0	INSTRUMENT CLUSTER																							●				●		
6213.2	MULTI-FUNCTION CLOCK																							●			●	●		
6214.0	ON-BOARD DISPLAY																							●				●		
6300.0	LIGHT SWITCH DETAILS																						●			●				
6312.0	HEADLIGHTS/ FOG LIGHTS											●	●			●		●						●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL/ UNDERHOOD LIGHTS																													
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS							●																						
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING																													
6350.0	CRASH CONTROL MODULE																													
6412.5	PARK VENTILATION WITH IHKR																				●									
6424.0	REAR WINDOW DEFOGGER						●																	●						
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)																●				●			●						
6510.0	RADIO/ CD PLAYER (PROVISIONS)									●																				
6510.1	RADIO/HIFI			●						●																				

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI-THEFT SYSTEM (ALPINE)																													
6581.2	ON-BOARD COMPUTER (BC V)											●	●											●			●	●		

FUSE CHART

FUSES 30 TO 47

		FUSE NUMBER																	
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)																			
1210.10	ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)										●									
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																			
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)										●									
1230.0	CHARGING SYSTEM																			
1240.0	START																			
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																	●		
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																			
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)													●	●					
3450.0	SLIP CONTROL (ABS)									●								●	●	
3450.1	SLIP CONTROL (ABS/ASC)									●								●		
5116.0	POWER MIRRORS																			
5126.0	ZKE CENTRAL LOCKING (ZV)						●													
5133.1	POWER WINDOWS (FH)																			
5200.0	POWER SEATS											●								
5203.0	HEATED SEATS																			
5410.1	POWER SUN ROOF (SHD)																			
5430.0	ELECTRO- MECHANICAL CONVERTIBLE TOP						●							●	●					
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●					
6133.0	HORN																			

FUSE CHART

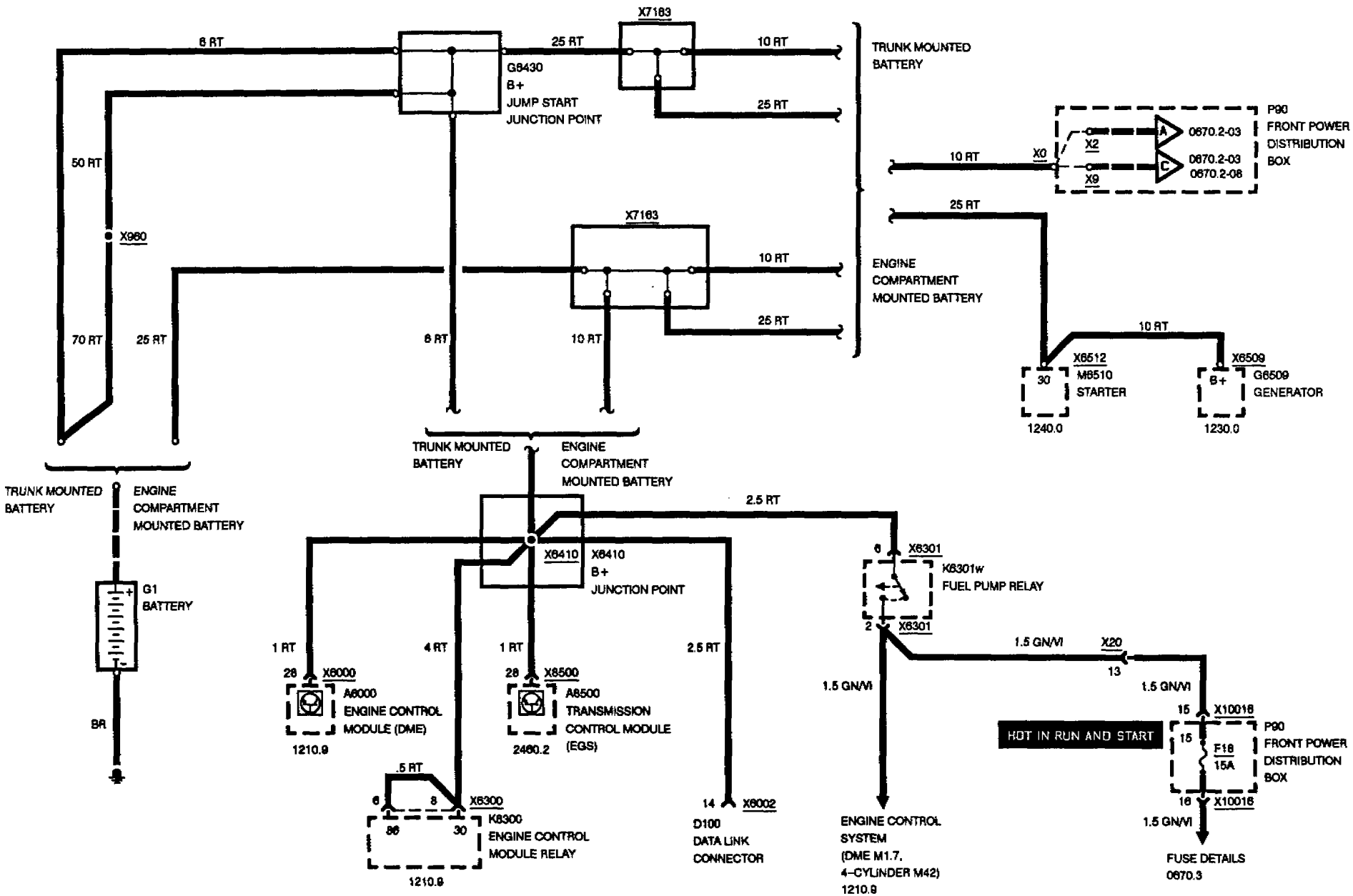
FUSES 30 TO 47

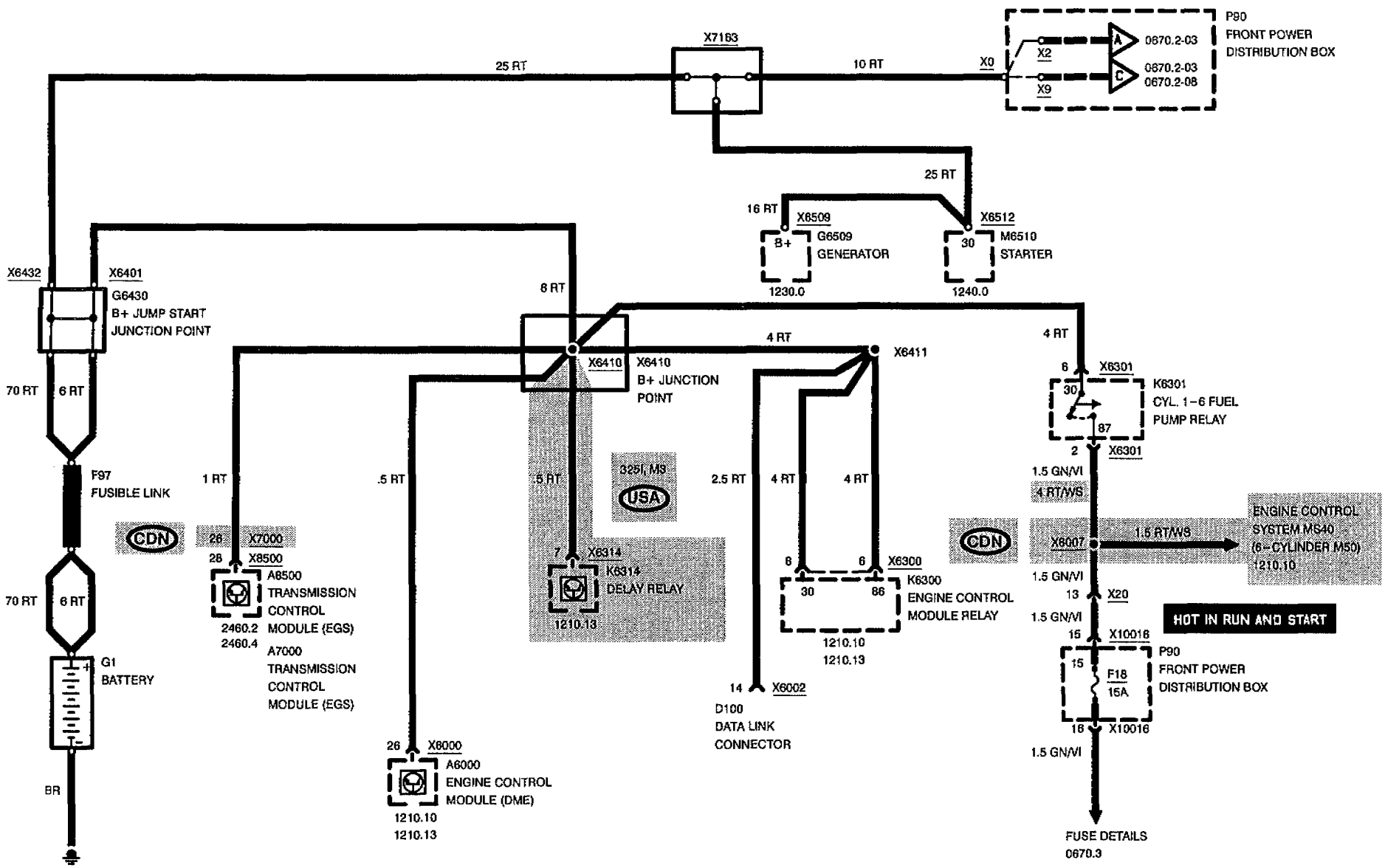
		FUSE NUMBER																	
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A
6160.1	WIPER/WASHER MODULE (WWM)							●								●	●			
6167.1	HEADLIGHT WASHER (SRA)																			
6211.0	INSTRUMENT CLUSTER		●															●		
6213.2	MULTI-FUNCTION CLOCK		●														●	●		
6214.0	ON-BOARD DISPLAY		●														●	●		
6300.0	LIGHT SWITCH DETAILS				●				●											
6312.0	HEADLIGHTS/ FOG LIGHTS	●																		
6313.0	TURN/HAZARD LIGHTS					●														
6314.0	PARK/TAIL/ UNDERHOOD LIGHTS				●				●											
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS				●				●											
6322.0	BACK UP LIGHTS																			
6325.0	BRAKE LIGHTS																	●		
6330.3	INTERIOR LIGHTS				●										●					
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER			●	●				●							●				
6350.0	CRASH CONTROL MODULE					●														
6412.5	PARK VENTILATION WITH IHKR																			
6424.0	REAR WINDOW DEFOGGER																			
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)		●						●		●		●							
6510.0	RADIO/ CD PLAYER (PROVISIONS)															●				
6510.1	RADIO/HIFI				●											●				

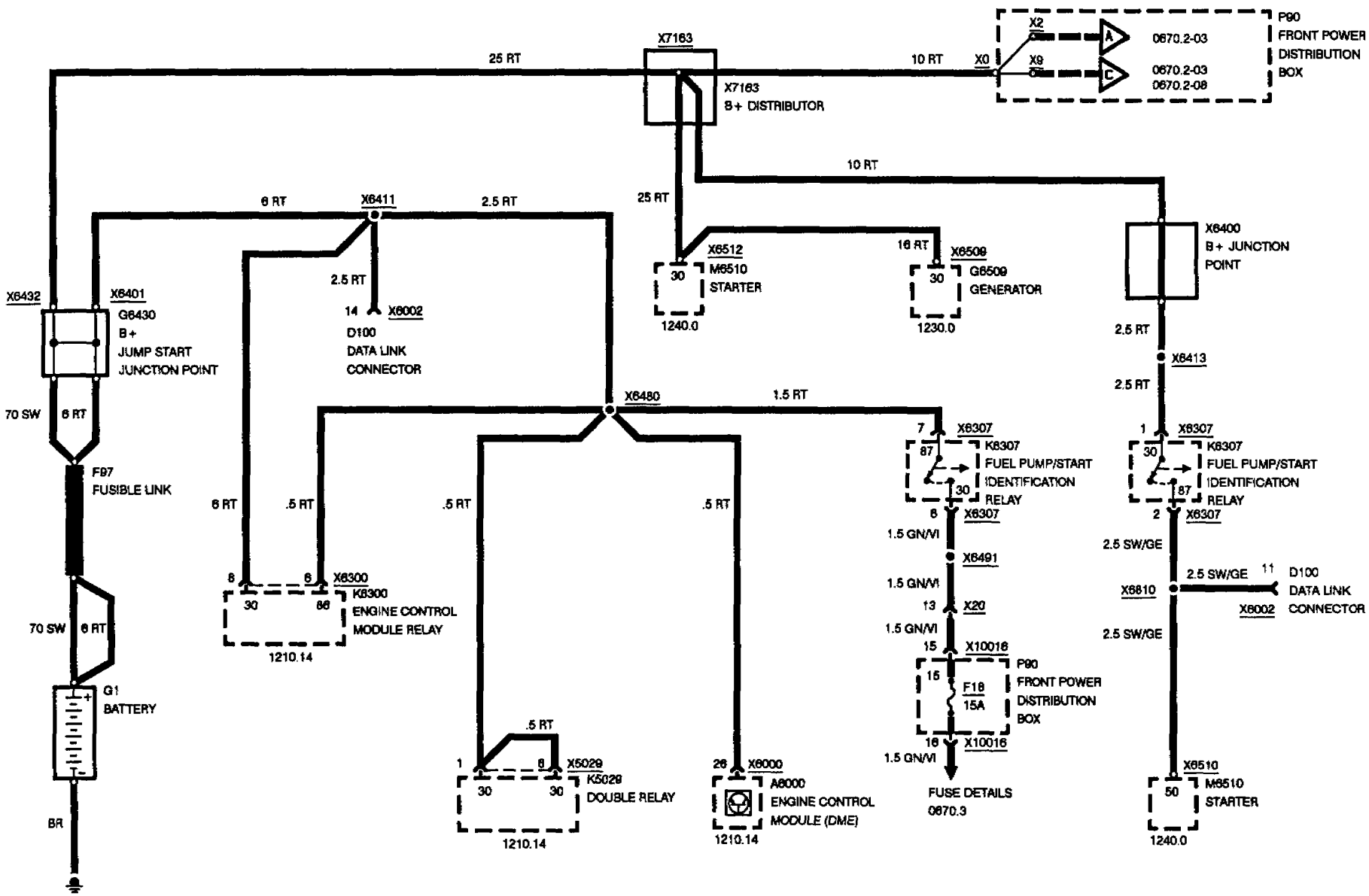
FUSE CHART

FUSES 30 TO 47

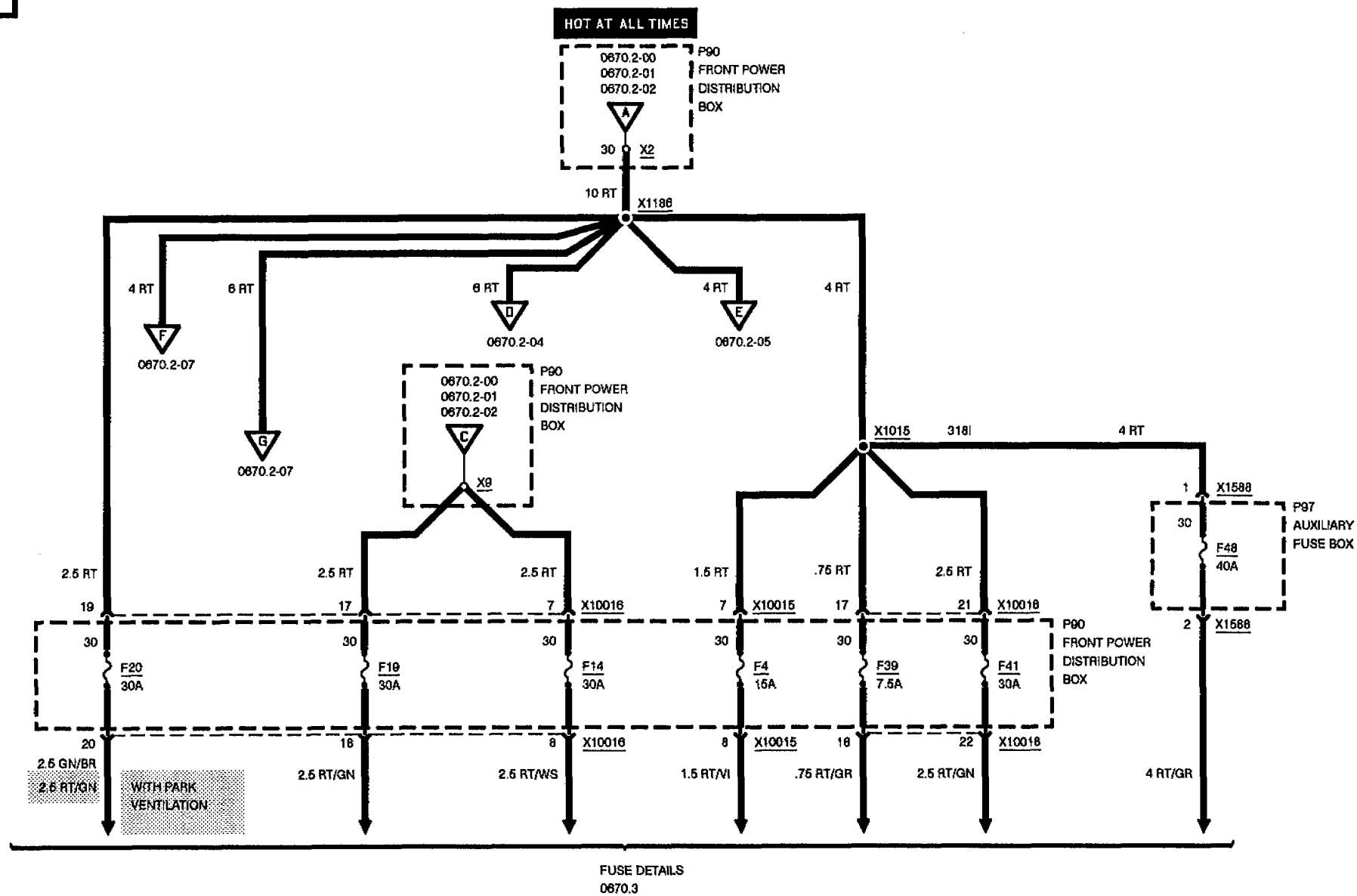
		FUSE NUMBER																	
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●					
6571.0	CRUISE CONTROL (TEMPOMAT)																	●		
6575.2	ANTI-THEFT SYSTEM (ALPINE)														●				●	
6581.2	ON-BOARD COMPUTER (BC V)		●		●				●								●	●		


X7163
6 RT
25 RT
10 RT
25 RT
G8430
B+
JUMP START
JUNCTION POINT
TRUNK MOUNTED
BATTERY
50 RT
X980
70 RT
25 RT
X7163
10 RT
25 RT
6 RT
10 RT
ENGINE
COMPARTMENT
MOUNTED BATTERY
P90
FRONT POWER
DISTRIBUTION
BOX
10 RT
X0
X2
X9
0670.2-03
0670.2-03
0670.2-08
25 RT
10 RT
X6512
M8510
STARTER
30
1240.0
X6509
G6509
GENERATOR
B+
1230.0
TRUNK MOUNTED
BATTERY
ENGINE
COMPARTMENT
MOUNTED BATTERY
G1
BATTERY
BR
TRUNK MOUNTED
BATTERY
ENGINE
COMPARTMENT
MOUNTED BATTERY
2.5 RT
X6410
X6410
B+
JUNCTION POINT
1 RT
4 RT
1 RT
2.5 RT
28
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.9
28
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
2460.2
.5 RT
6
8
X6300
86
30
K6300
ENGINE CONTROL
MODULE RELAY
1210.9
14
X6002
D100
DATA LINK
CONNECTOR
6
X6301
K6301w
FUEL PUMP RELAY
2
X6301
1.5 GN/VI
X20
13
1.5 GN/VI
1.5 GN/VI
ENGINE CONTROL
SYSTEM
(DME M1.7,
4-CYLINDER M42)
1210.9
HOT IN RUN AND START
15
X10018
15
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
16
X10018
1.5 GN/VI
FUSE DETAILS
0670.3

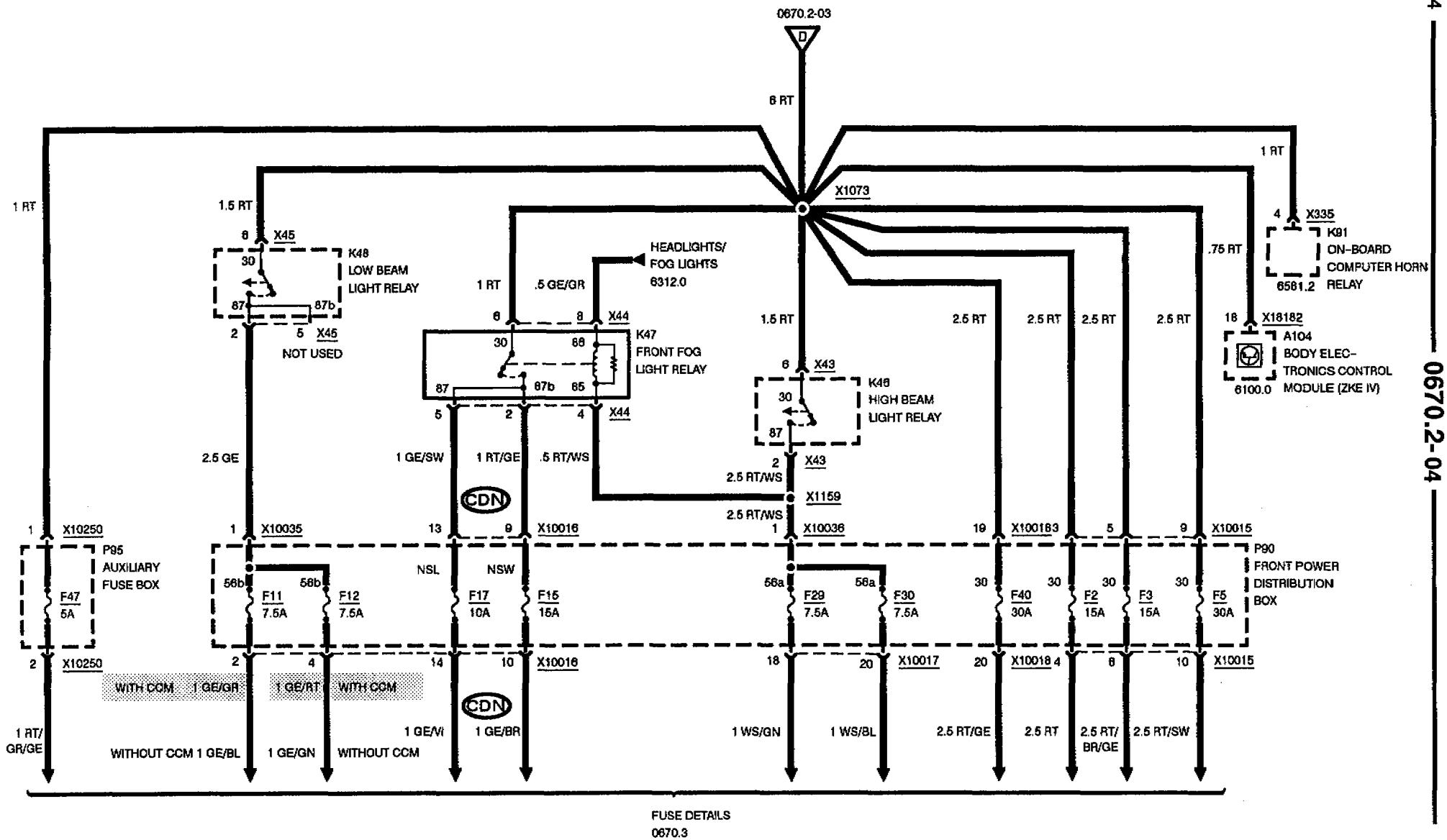

X7163
25 RT
10 RT
X0
X2
X9
A
C
0670.2-03
0670.2-03
0670.2-08
P90
FRONT POWER
DISTRIBUTION BOX
25 RT
16 RT
X6509
B+
G6509
GENERATOR
1230.0
X6512
30
M6510
STARTER
1240.0
X6432
X6401
G6430
B+ JUMP START
JUNCTION POINT
8 RT
X6410
X6410
B+ JUNCTION
POINT
4 RT
X6411
4 RT
6
X6301
30
87
2
X6301
K6301
CYL. 1-6 FUEL
PUMP RELAY
70 RT
6 RT
F97
FUSIBLE LINK
1 RT
.5 RT
.5 RT
325i, M3
USA
2.5 RT
4 RT
4 RT
1.5 GN/VI
4 RT/WS
CDN
26
X7000
28
X8500
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
2460.2
2460.4
A7000
TRANSMISSION
CONTROL
MODULE (EGS)
7
X6314
K6314
DELAY RELAY
1210.13
8
6
X6300
30
86
K6300
ENGINE CONTROL
MODULE RELAY
1210.10
1210.13
CDN
X6007
1.5 RT/WS
ENGINE CONTROL
SYSTEM MS40
(6-CYLINDER M50)
1210.10
1.5 GN/VI
13
X20
HOT IN RUN AND START
1.5 GN/VI
15
X10016
15
F18
15A
18
X10016
P90
FRONT POWER
DISTRIBUTION BOX
70 RT
6 RT
G1
BATTERY
BR
14
X6002
D100
DATA LINK
CONNECTOR
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.10
1210.13
1.5 GN/VI
FUSE DETAILS
0670.3


X7163
25 RT
X7163
B+ DISTRIBUTOR
10 RT
X0
X2
X9
A
C
0670.2-03
0670.2-03
0670.2-08
P90
FRONT POWER
DISTRIBUTION
BOX
10 RT
25 RT
X6512
30
M6510
STARTER
1240.0
16 RT
X6509
30
G6509
GENERATOR
1230.0
X6400
B+ JUNCTION
POINT
6 RT
X6411
2.5 RT
2.5 RT
14
X6002
D100
DATA LINK
CONNECTOR
X6432
X6401
G6430
B+
JUMP START
JUNCTION POINT
70 SW
6 RT
F87
FUSIBLE LINK
X6480
1.5 RT
2.5 RT
X6413
2.5 RT
7
X6307
87
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
30
6
X6307
1.5 GN/VI
X6491
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
15
F18
15A
16
X10016
1.5 GN/VI
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
1
X6307
30
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
87
2
X6307
2.5 SW/GE
2.5 SW/GE
11
D100
DATA LINK
CONNECTOR
X6002
X6810
2.5 SW/GE
6 RT
.5 RT
8
6
X6300
30
86
K6300
ENGINE CONTROL
MODULE RELAY
1210.14
.5 RT
.5 RT
70 SW
6 RT
G1
BATTERY
BR
.5 RT
1
6
X5029
30
30
K5029
DOUBLE RELAY
1210.14
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.14
X6510
50
M6510
STARTER
1240.0

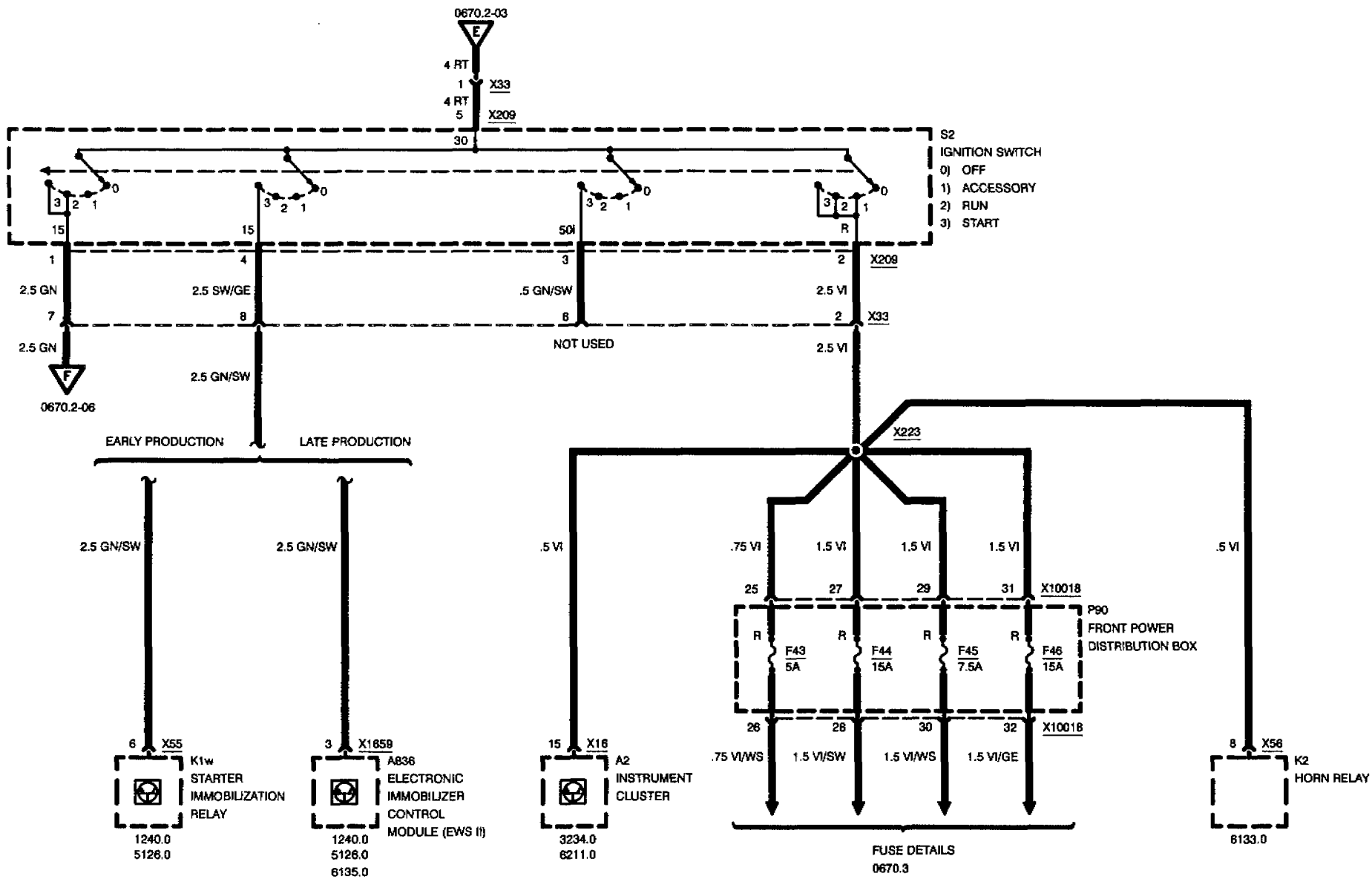
POWER DISTRIBUTION



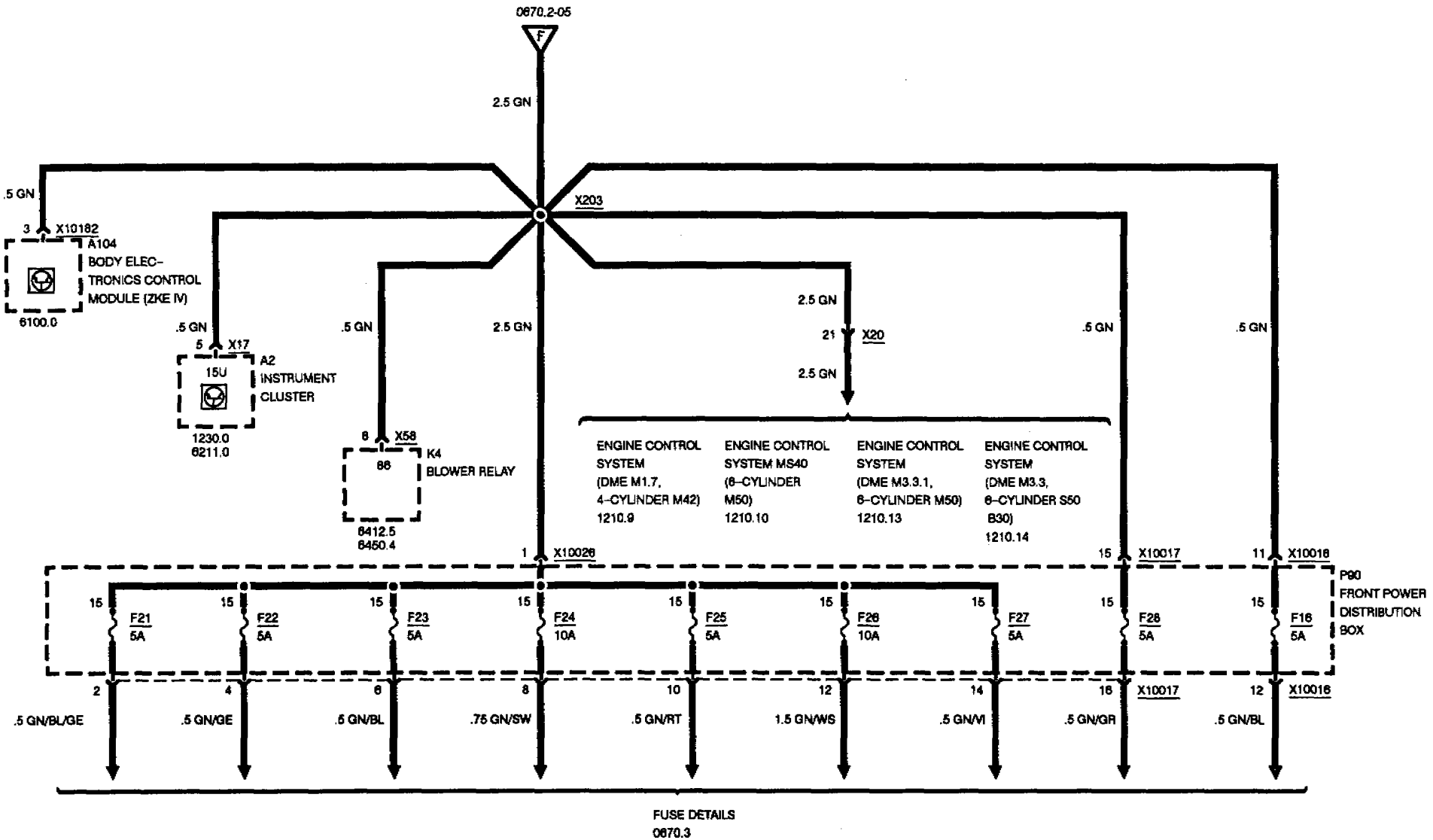
POWER DISTRIBUTION



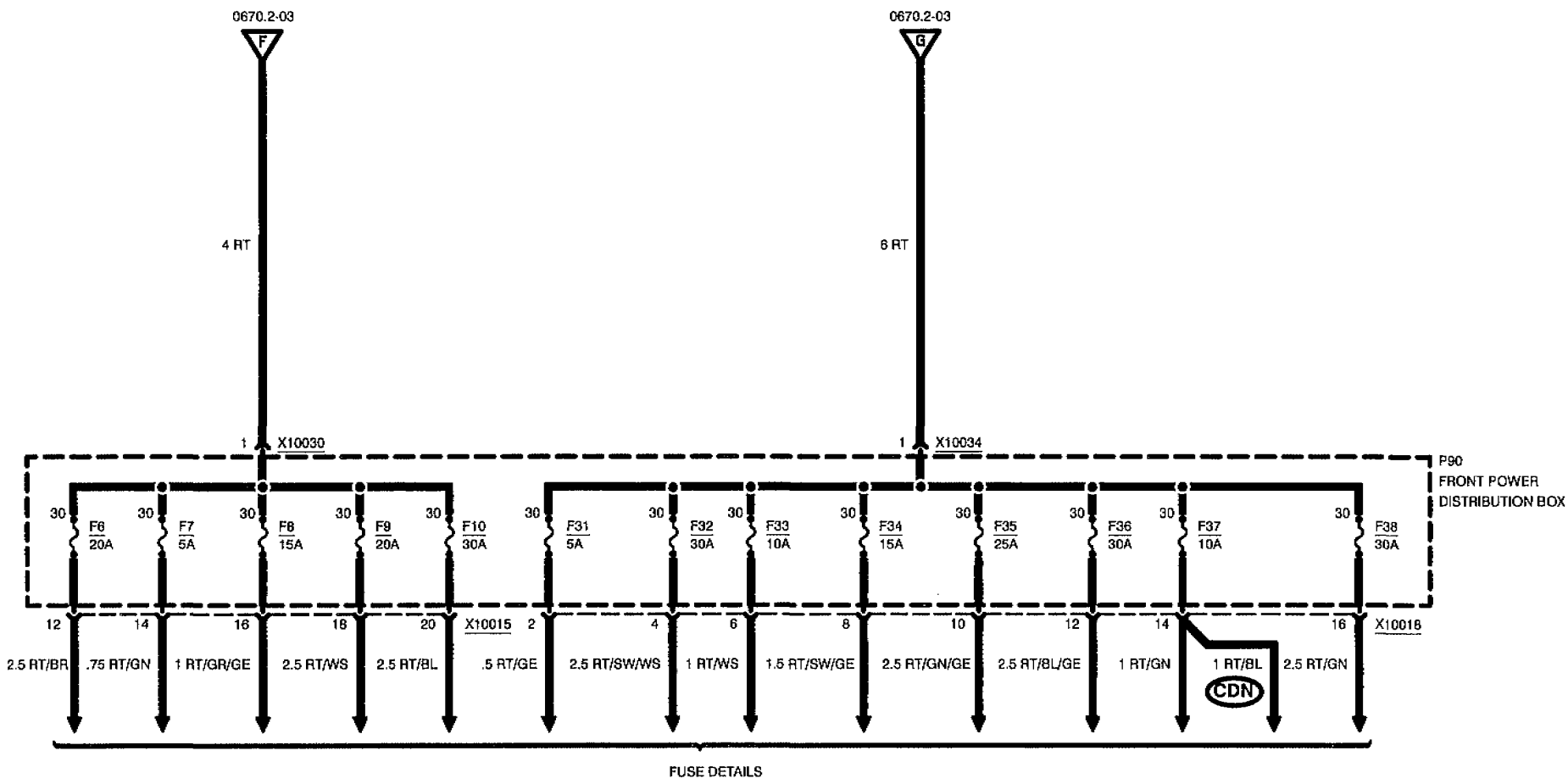
POWER DISTRIBUTION



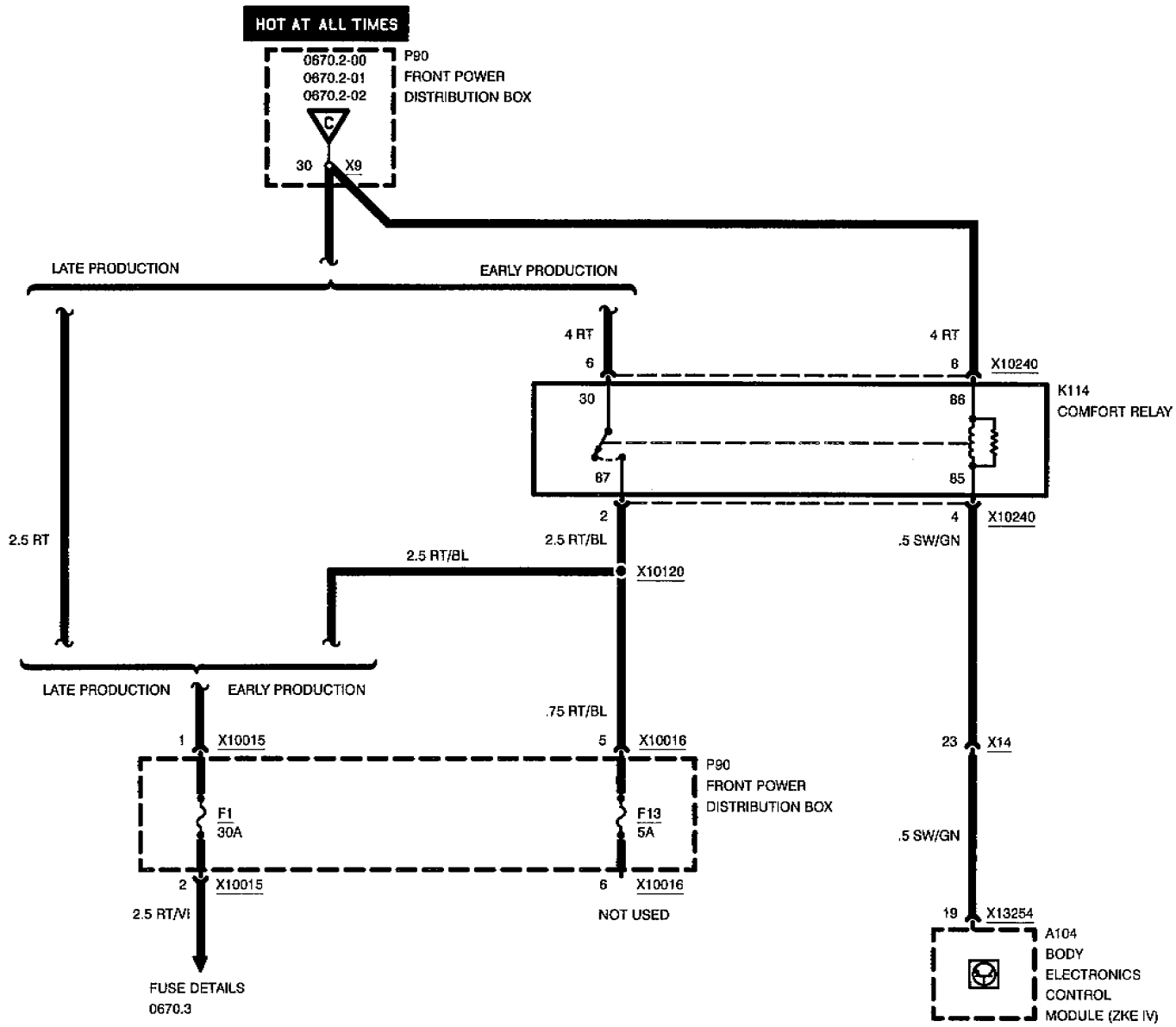
POWER DISTRIBUTION



POWER DISTRIBUTION

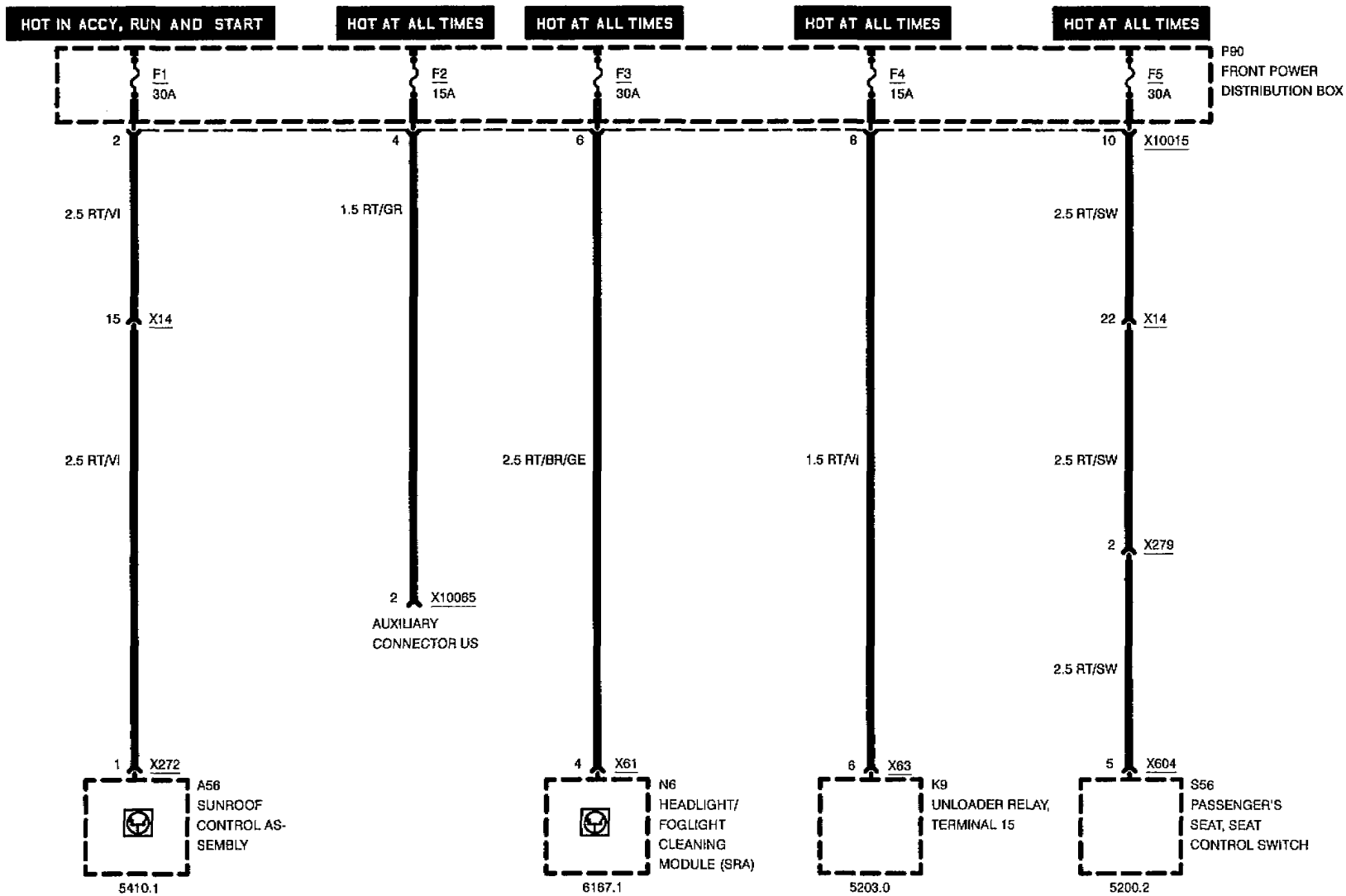


POWER DISTRIBUTION



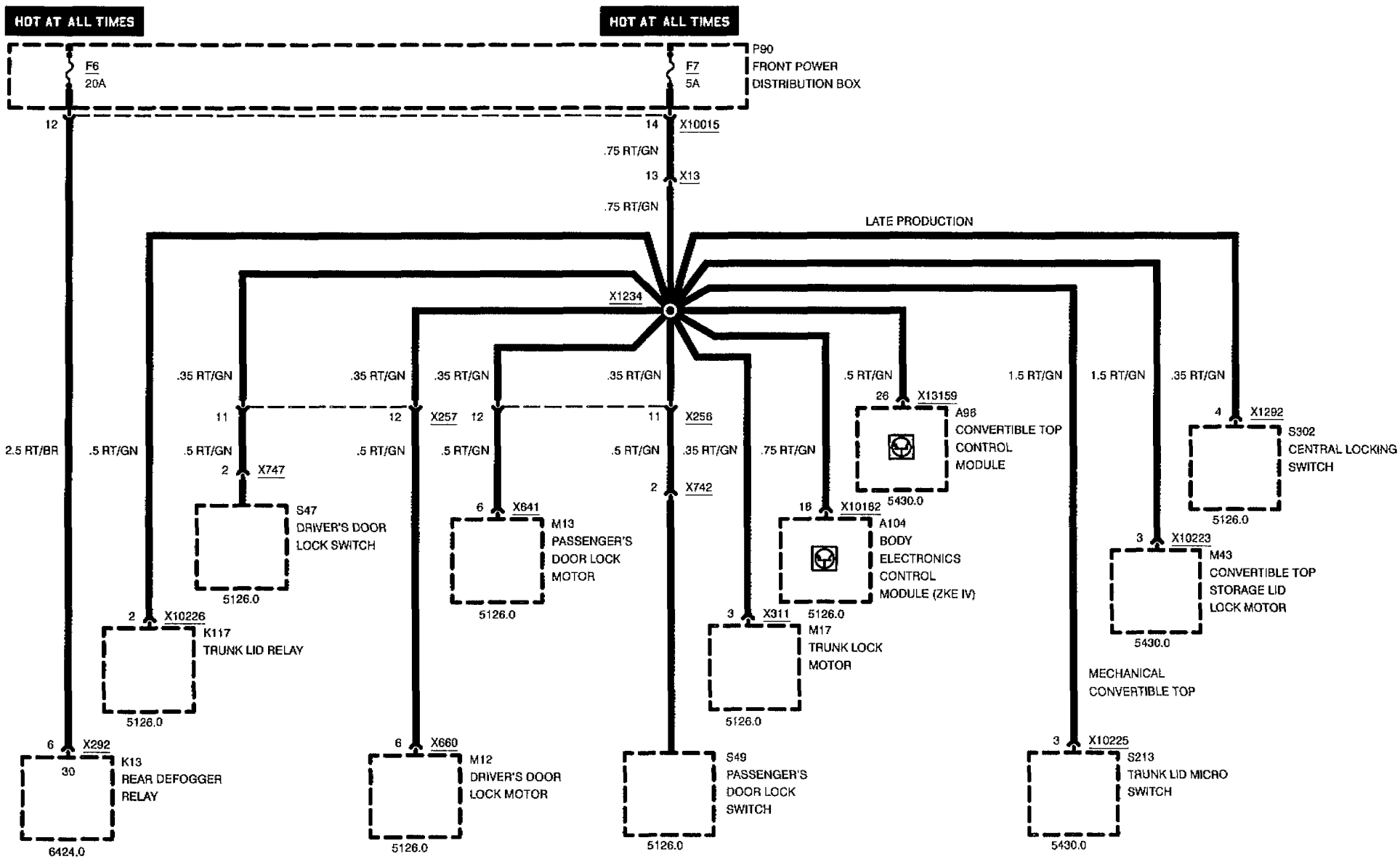
FUSE DETAILS

FUSES 1, 2, 3, 4, AND 5



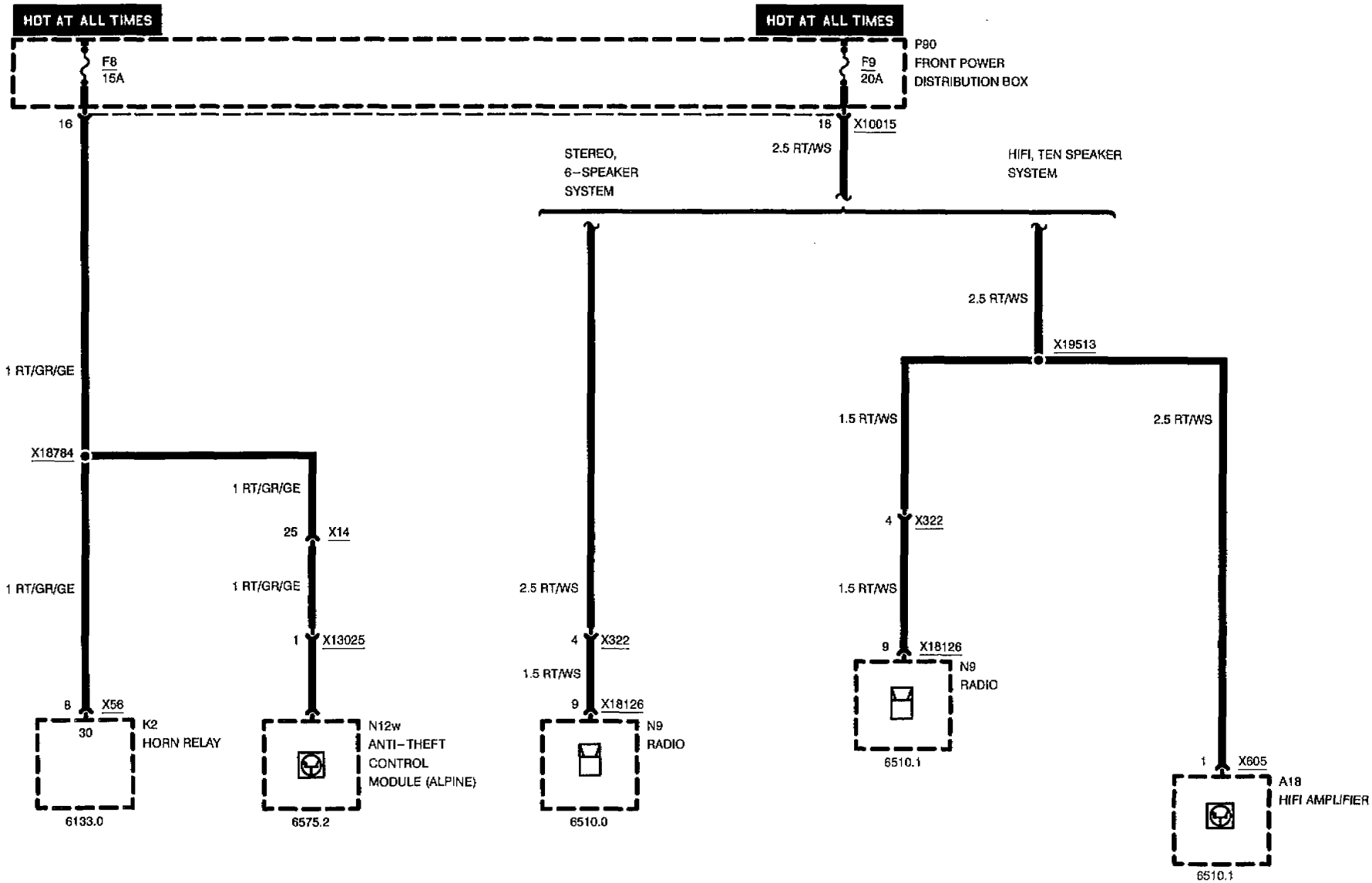
FUSE DETAILS

FUSES 6 AND 7



FUSE DETAILS

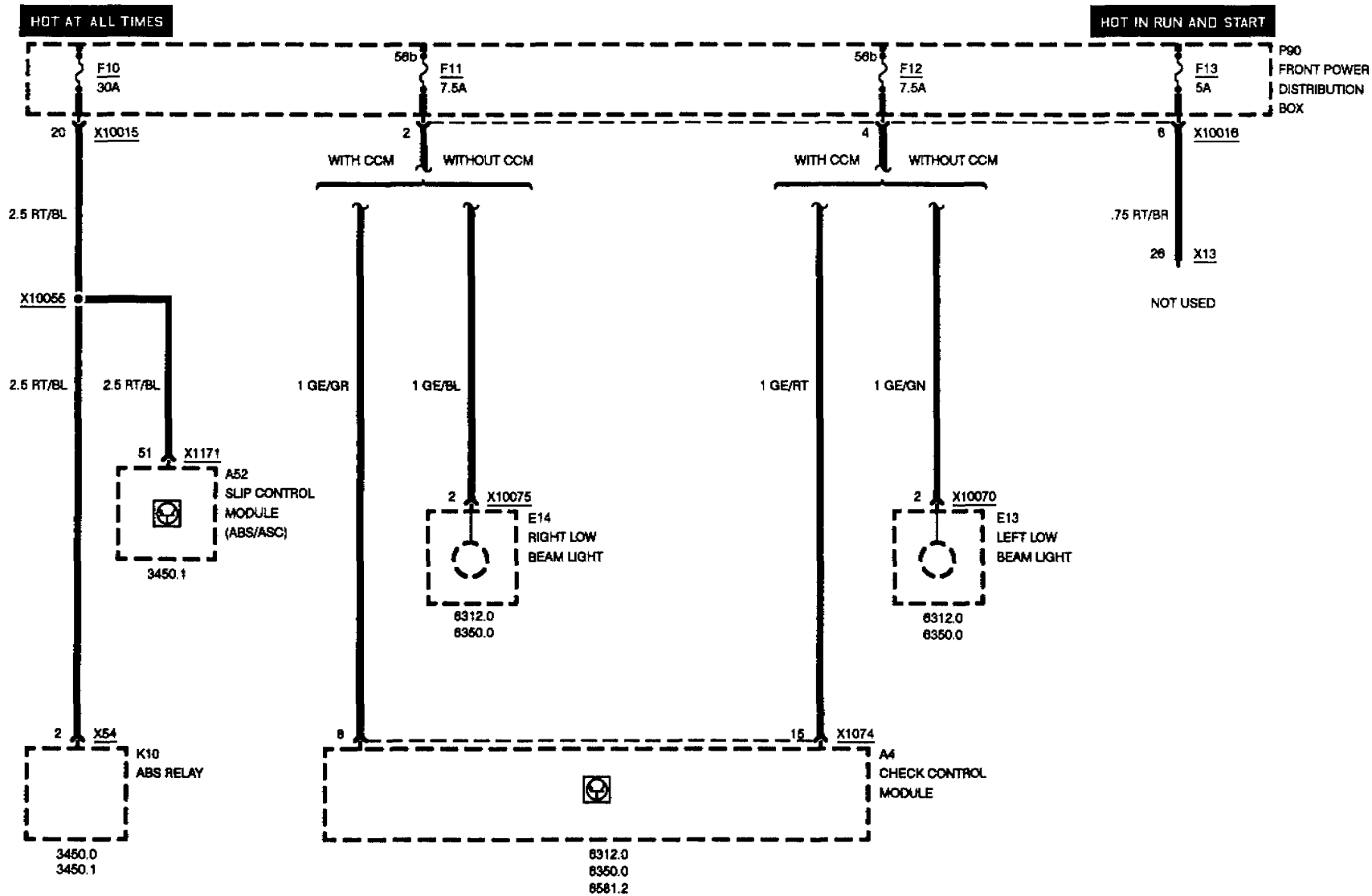
FUSES 8 AND 9



BMW 3

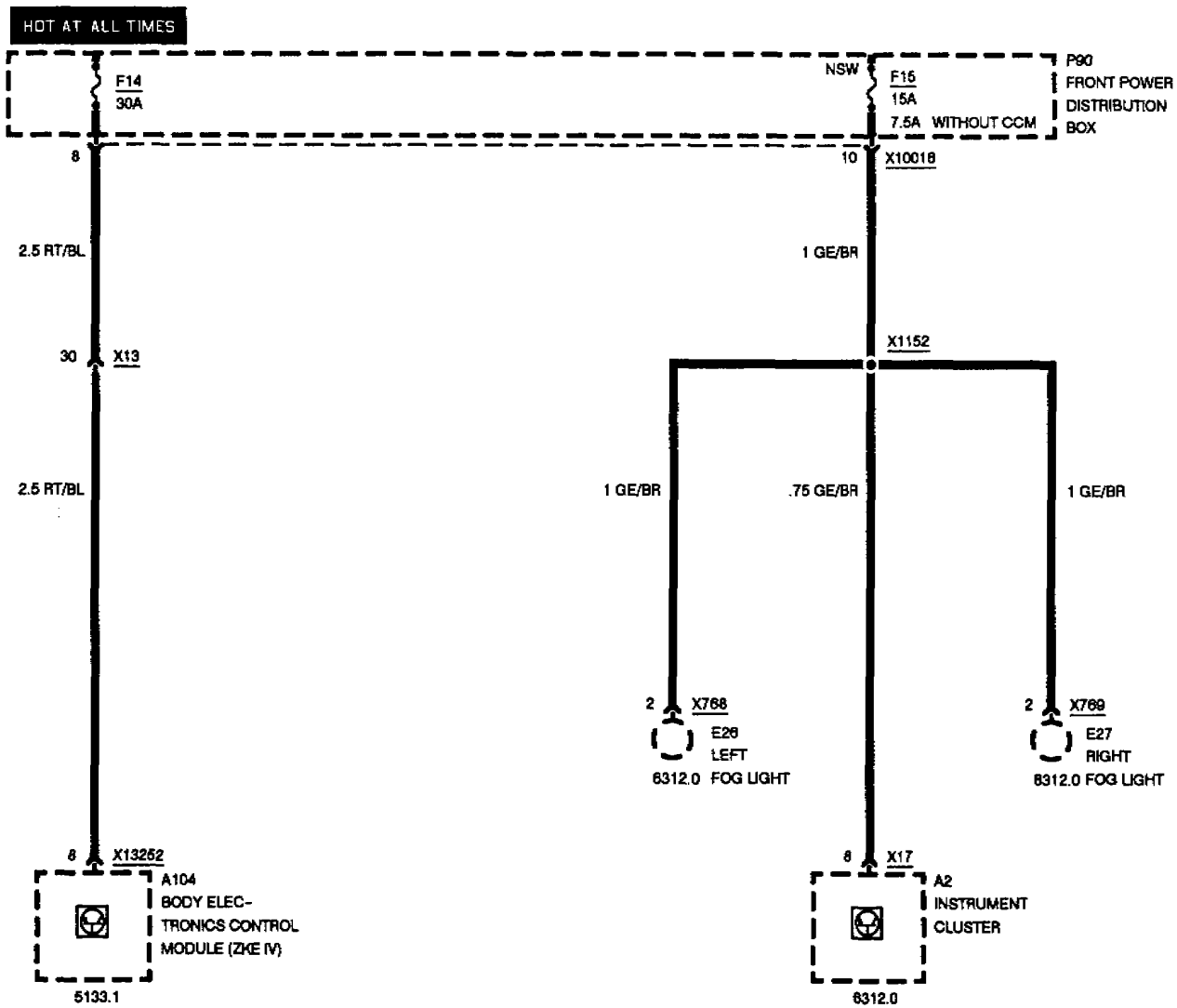
FUSE DETAILS

FUSES 10, 11, 12, AND 13



FUSE DETAILS

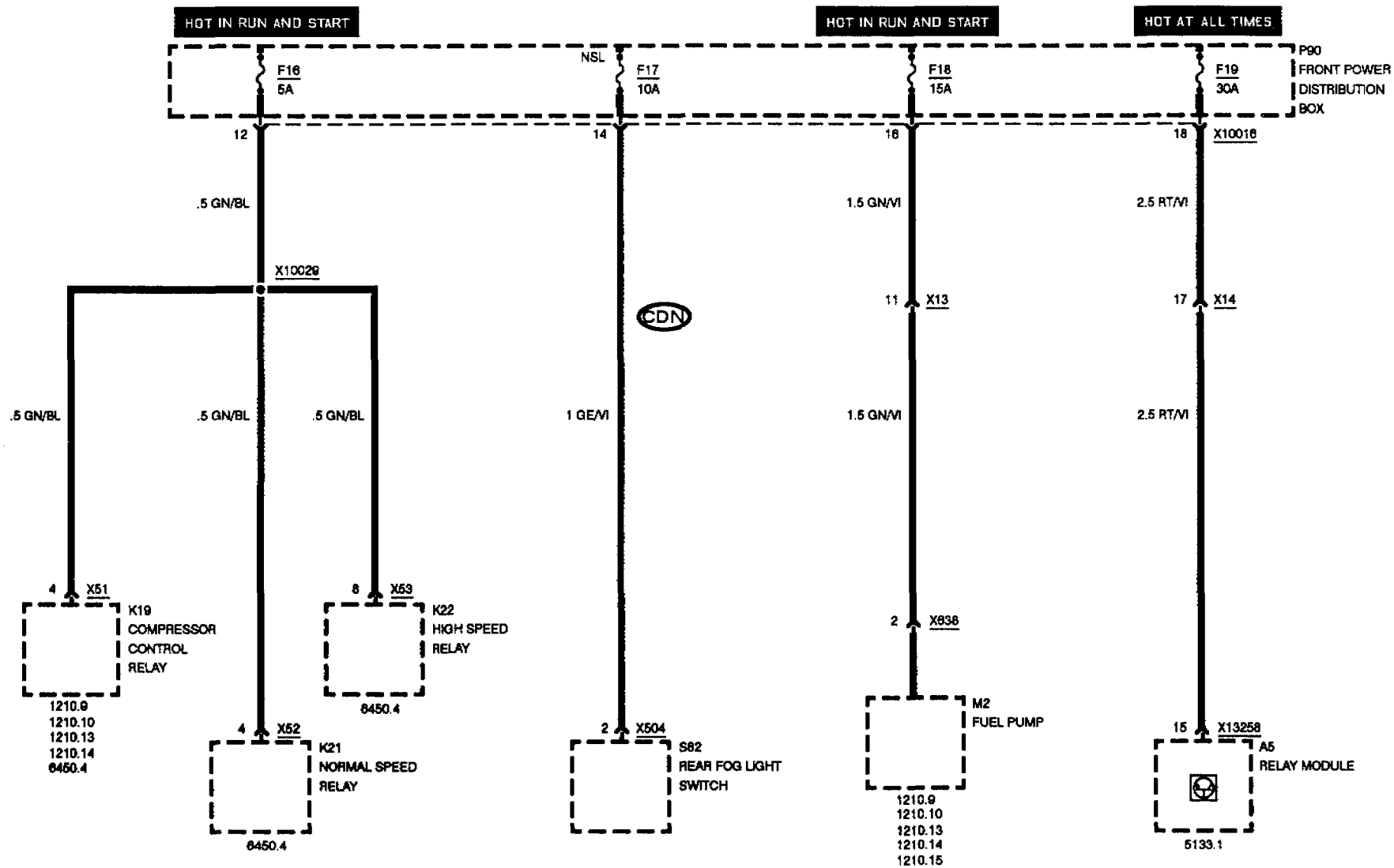
FUSES 14 AND 15



BMW 3

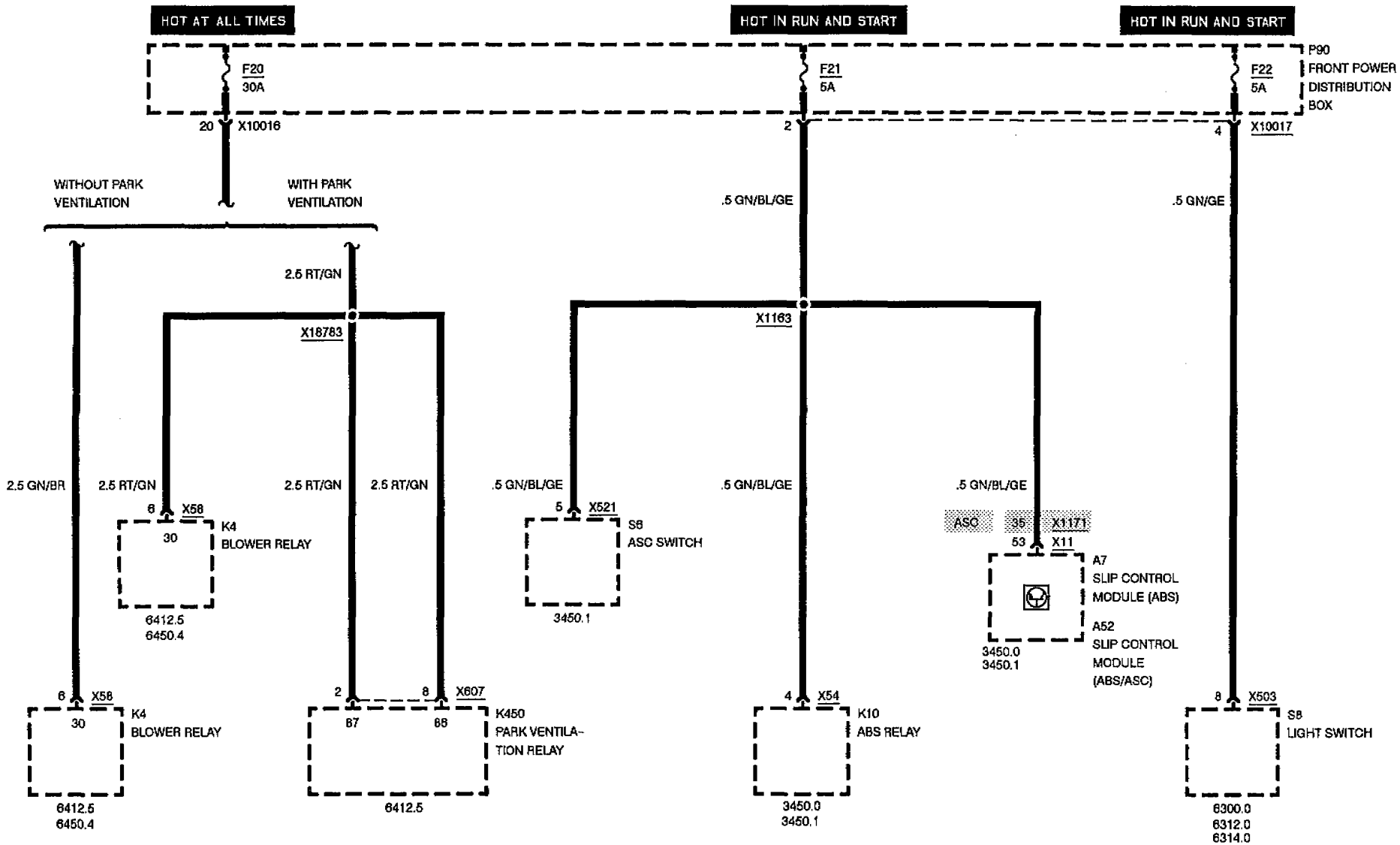
FUSE DETAILS

FUSES 16, 17, 18, AND 19



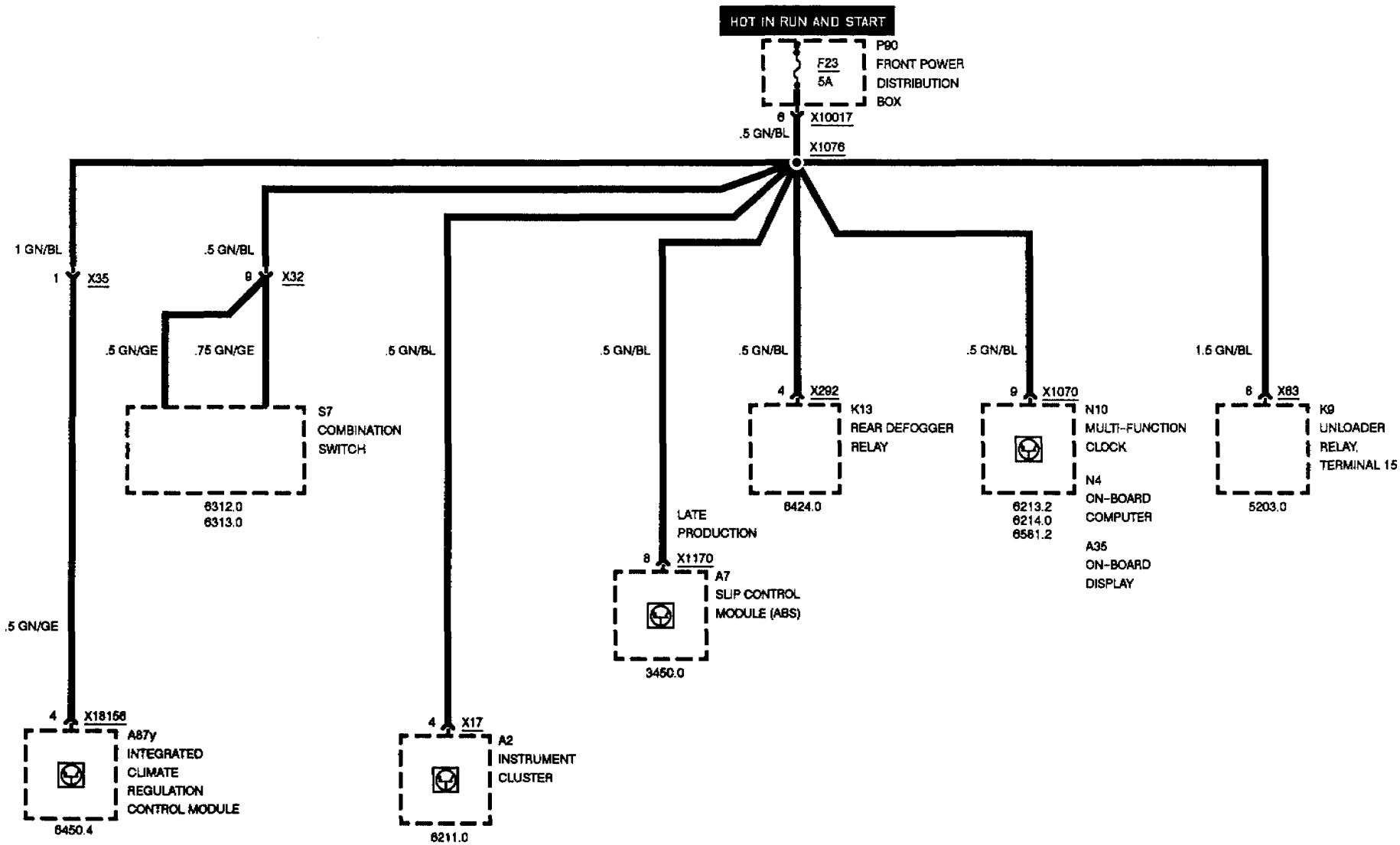
FUSE DETAILS

FUSES 20, 21, AND 22



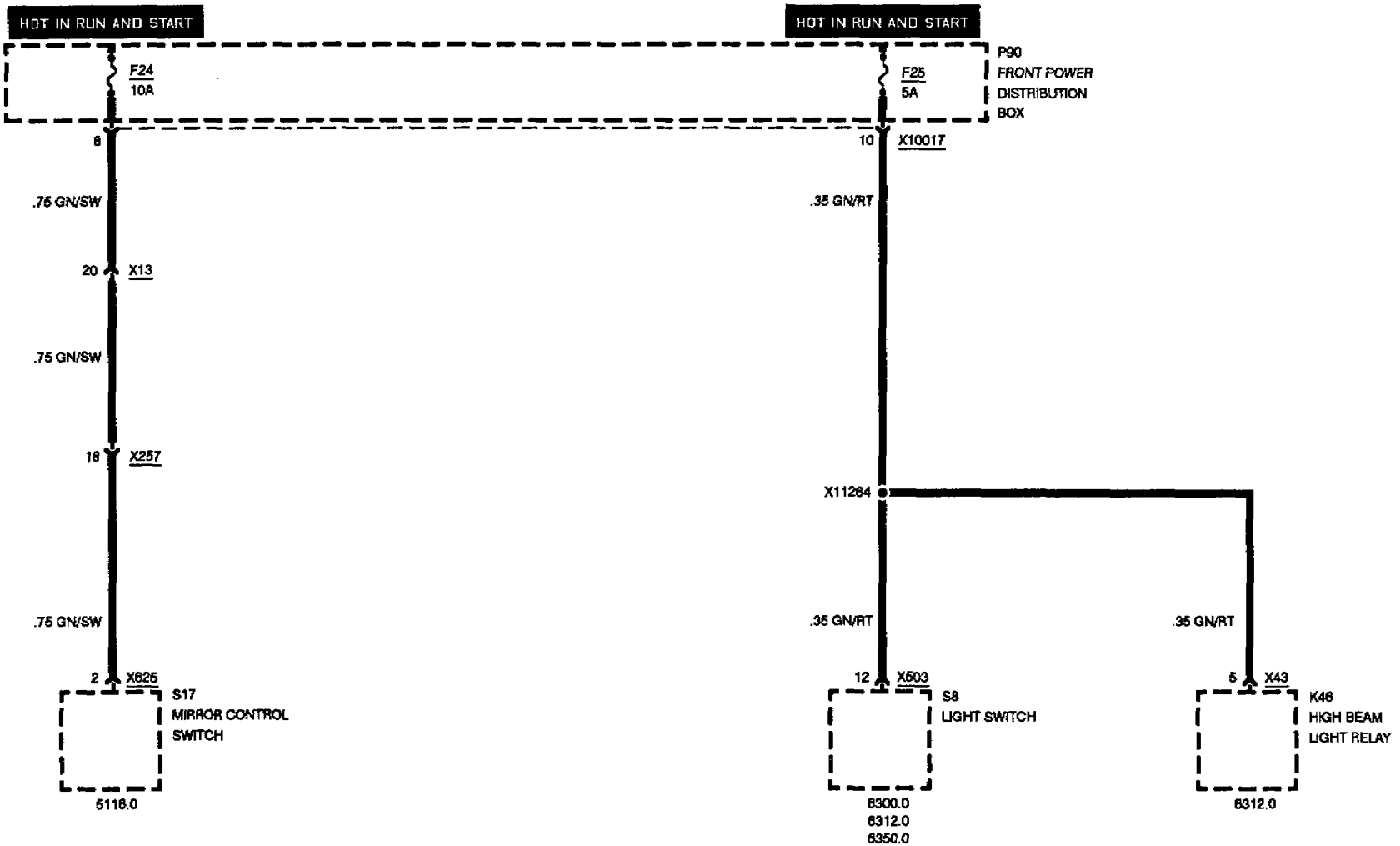
FUSE DETAILS

FUSE 23



FUSE DETAILS

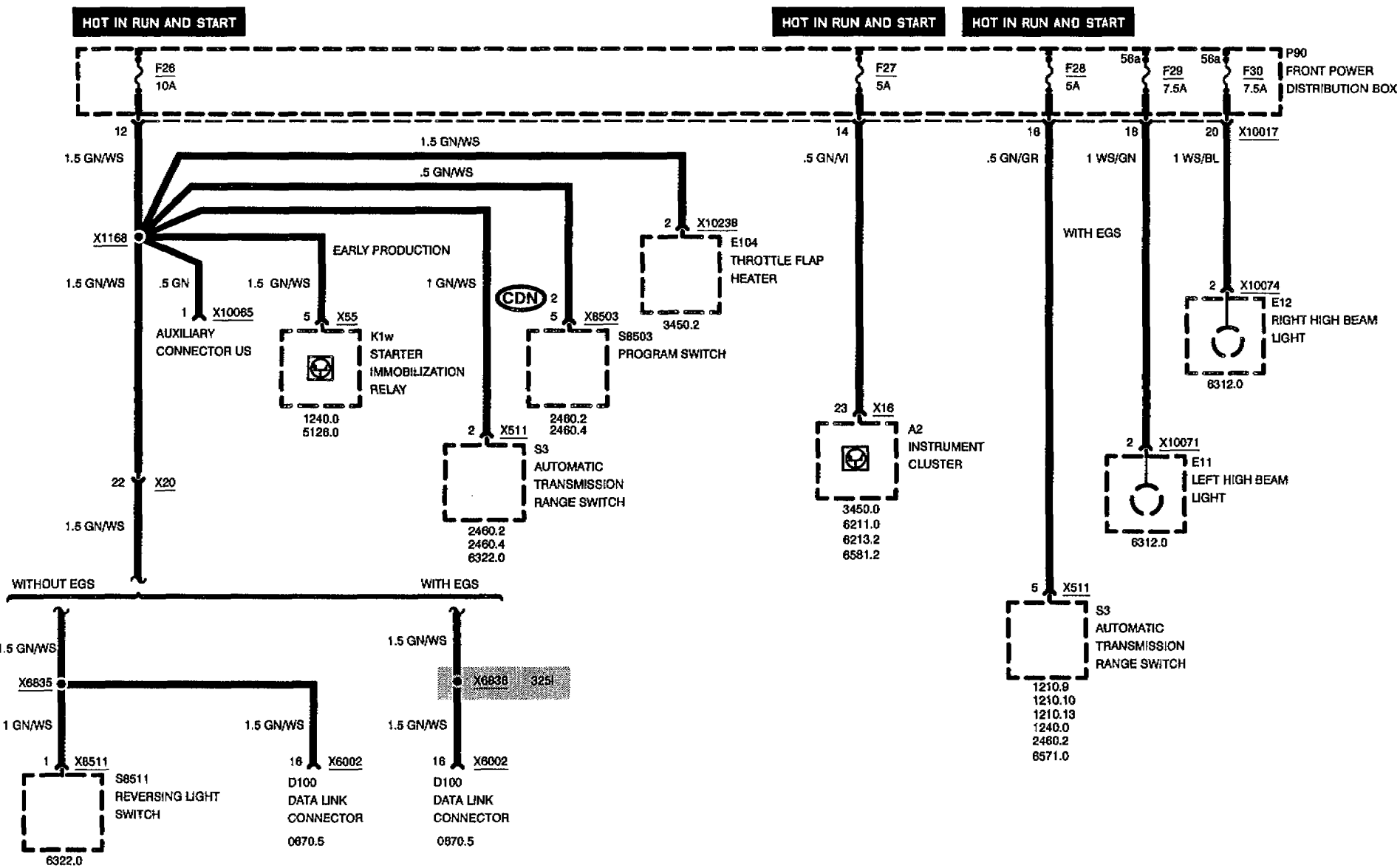
FUSES 24 AND 25



BMW 3

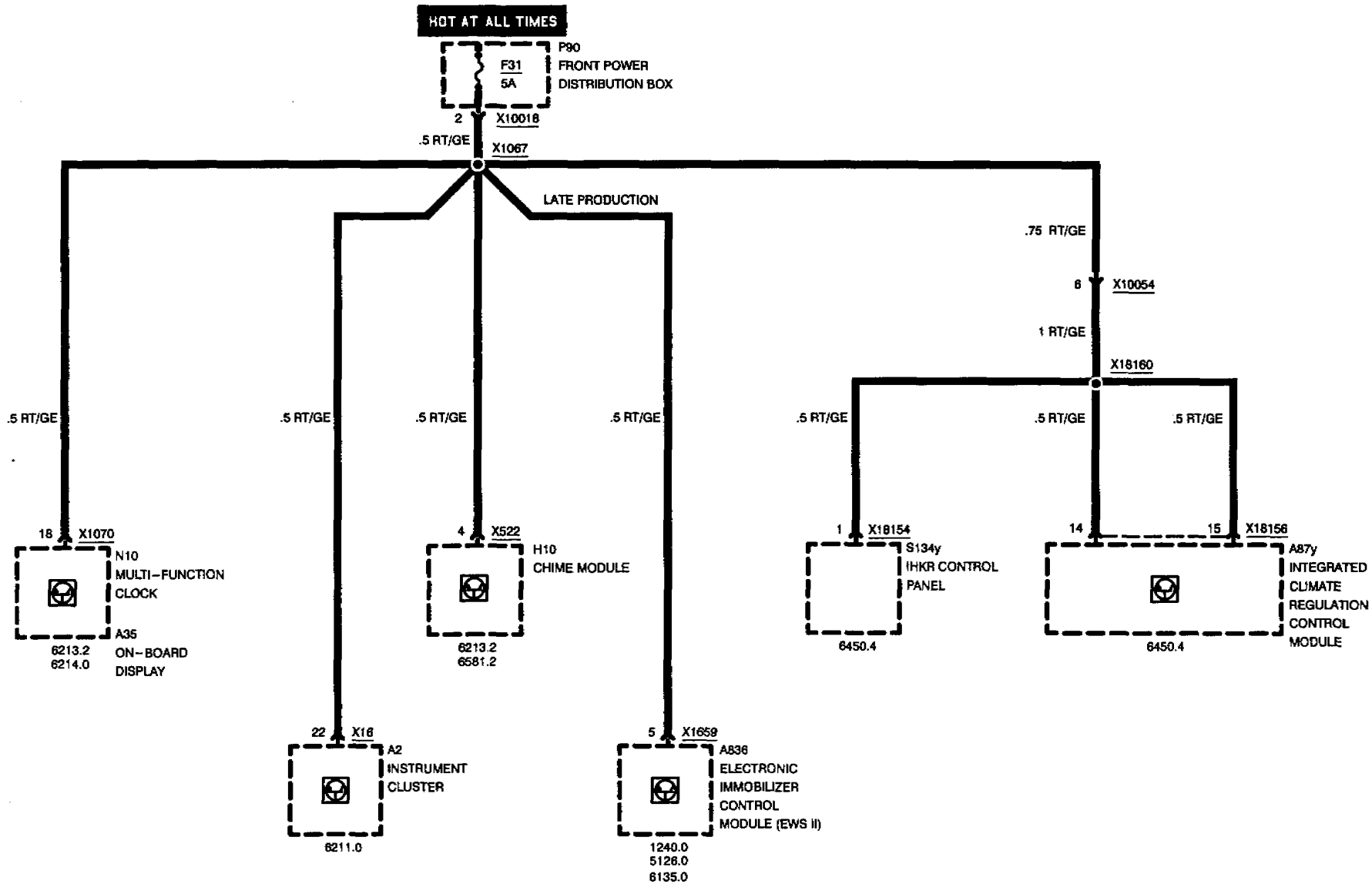
FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30



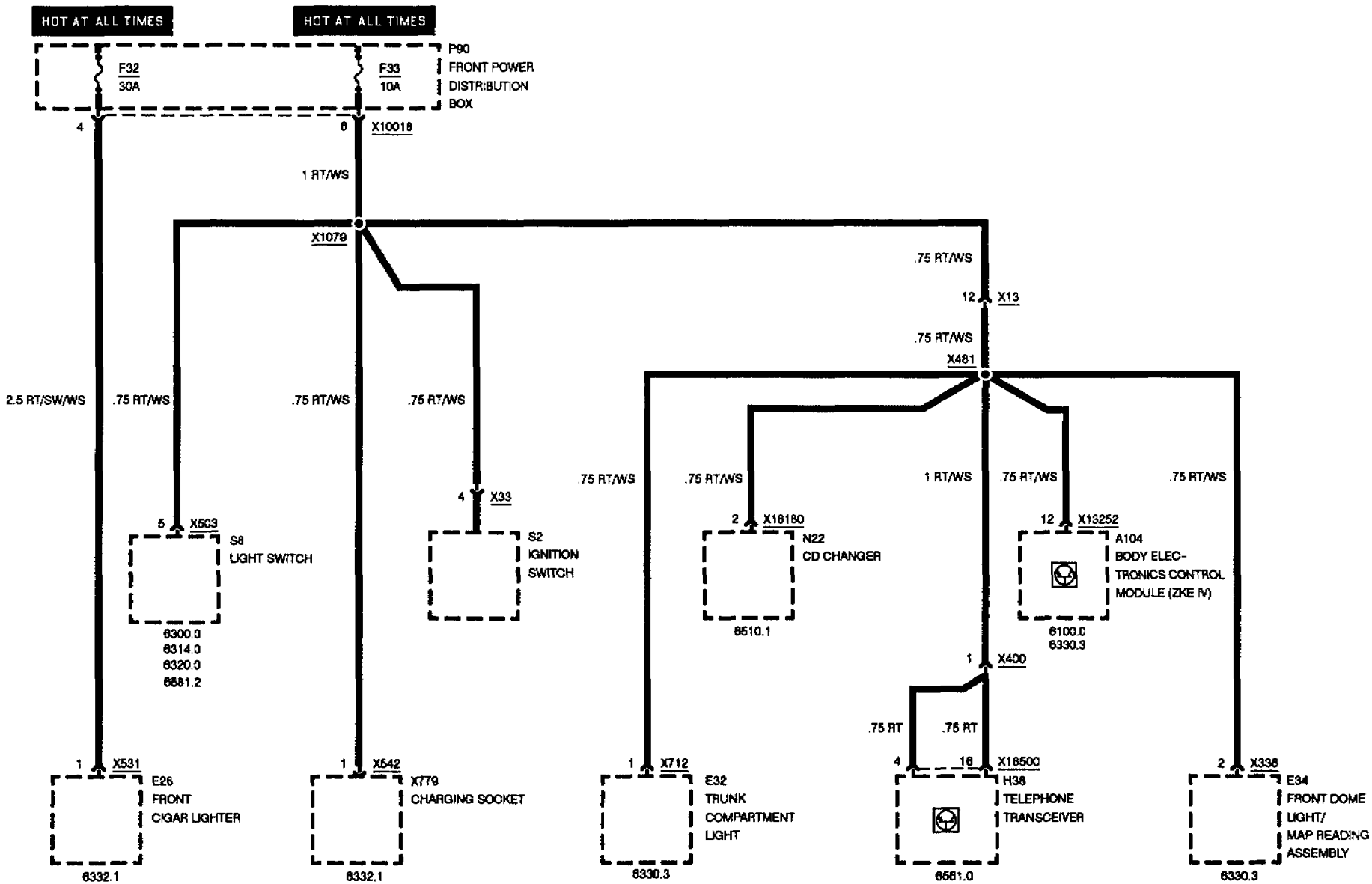
FUSE DETAILS

FUSE 31



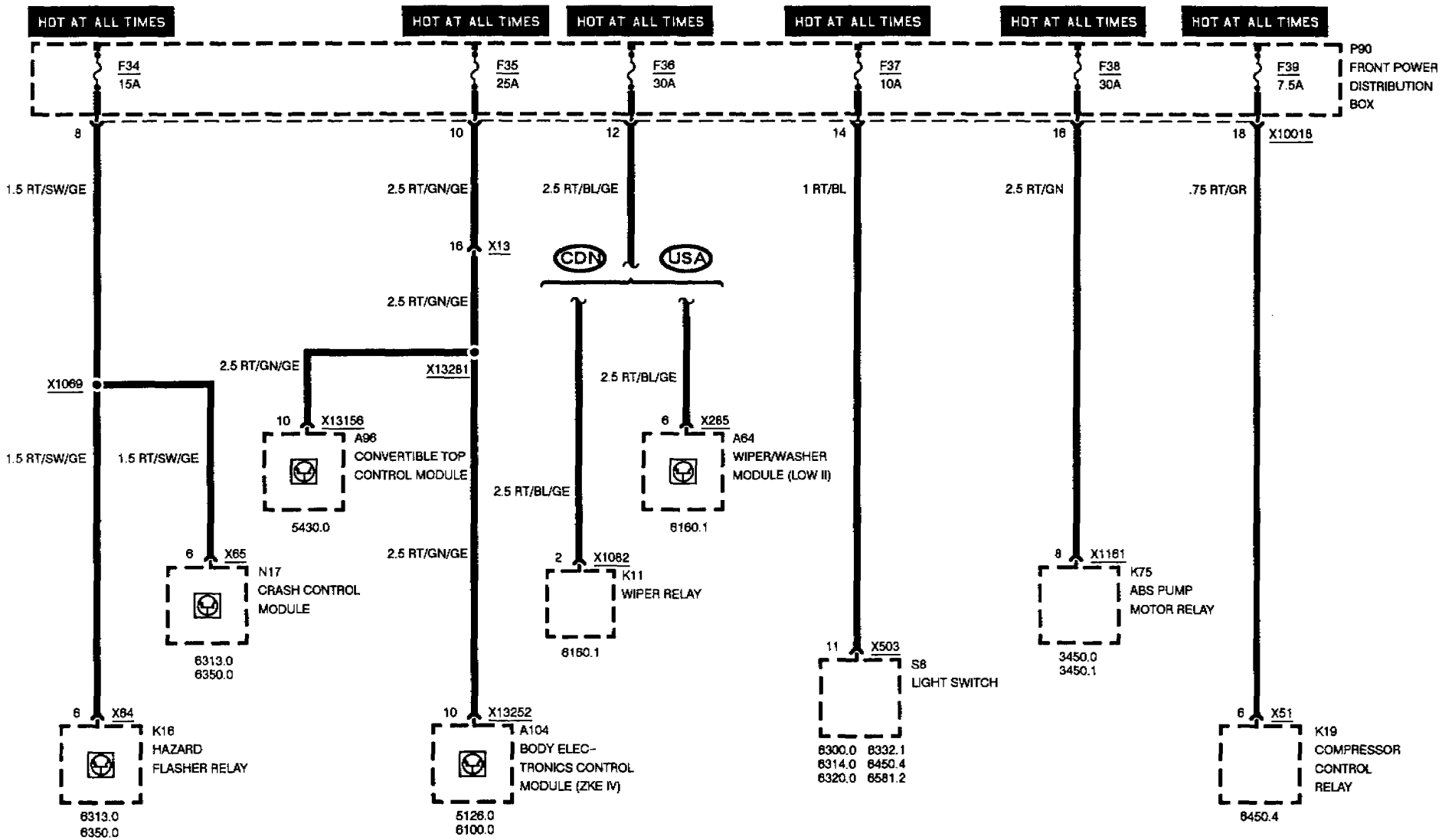
FUSE DETAILS

FUSES 32 AND 33



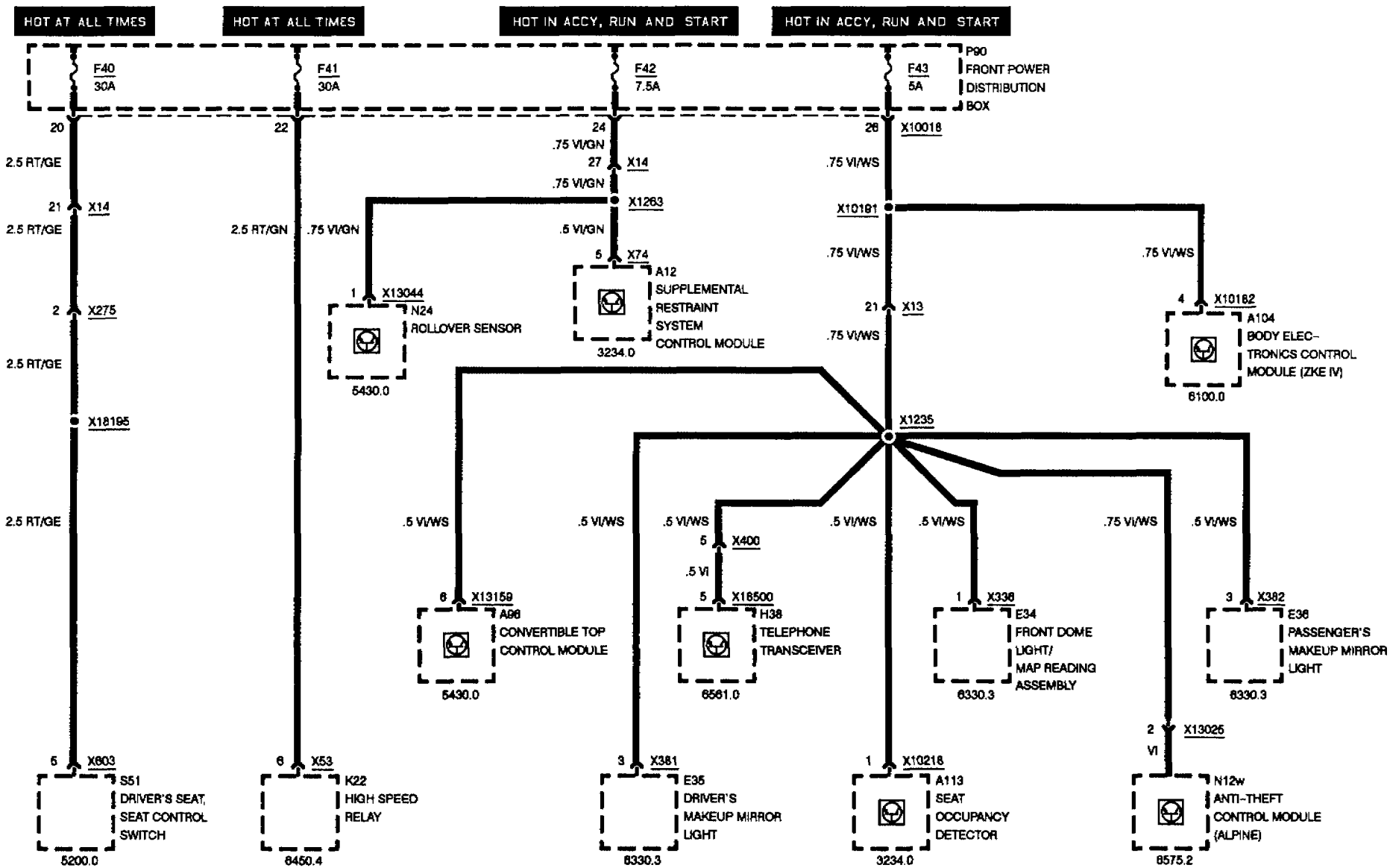
FUSE DETAILS

FUSES 34, 35, 36, 37, 38, AND 39



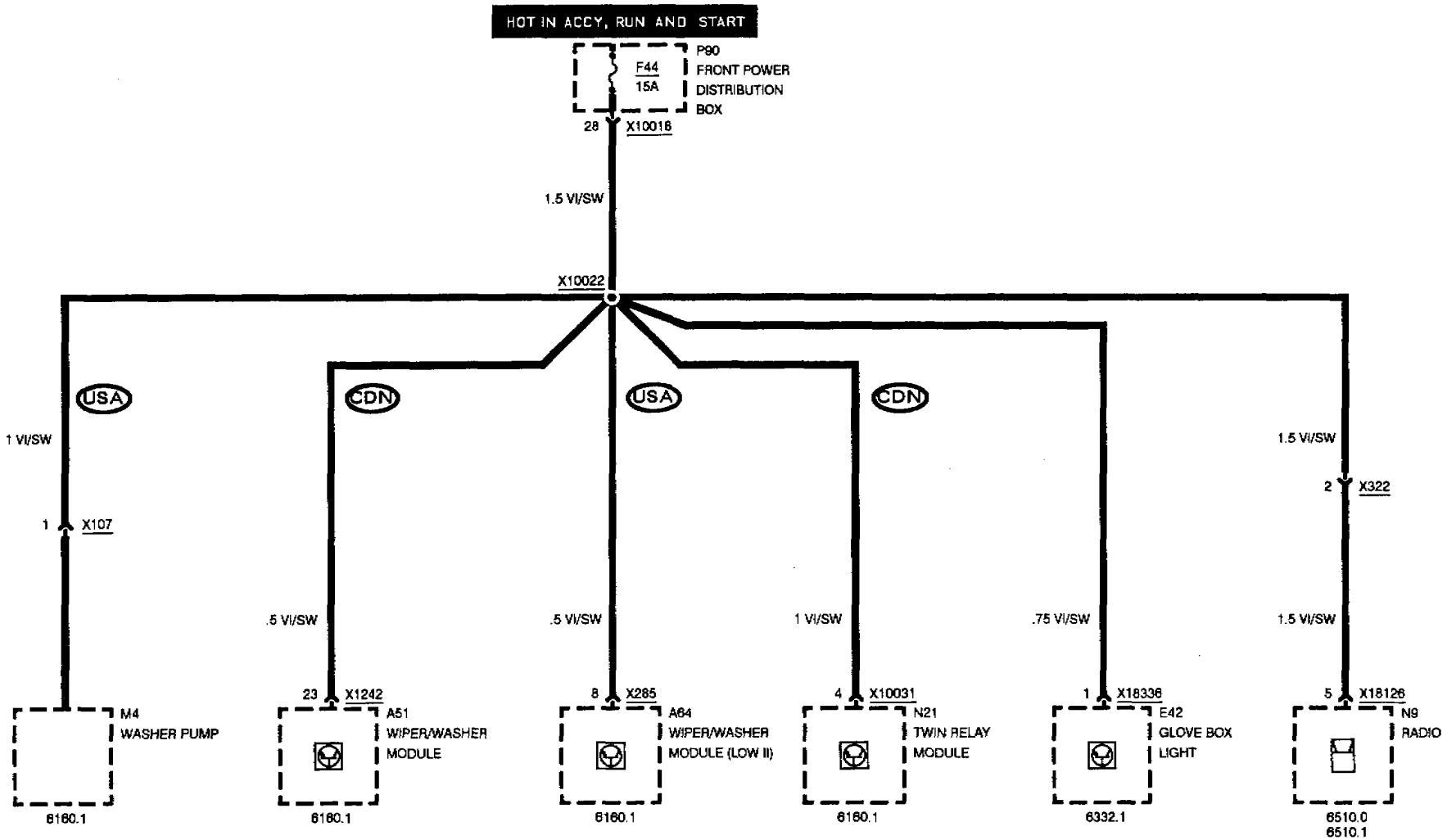
FUSE DETAILS

FUSES 40, 41, 42, AND 43



FUSE DETAILS

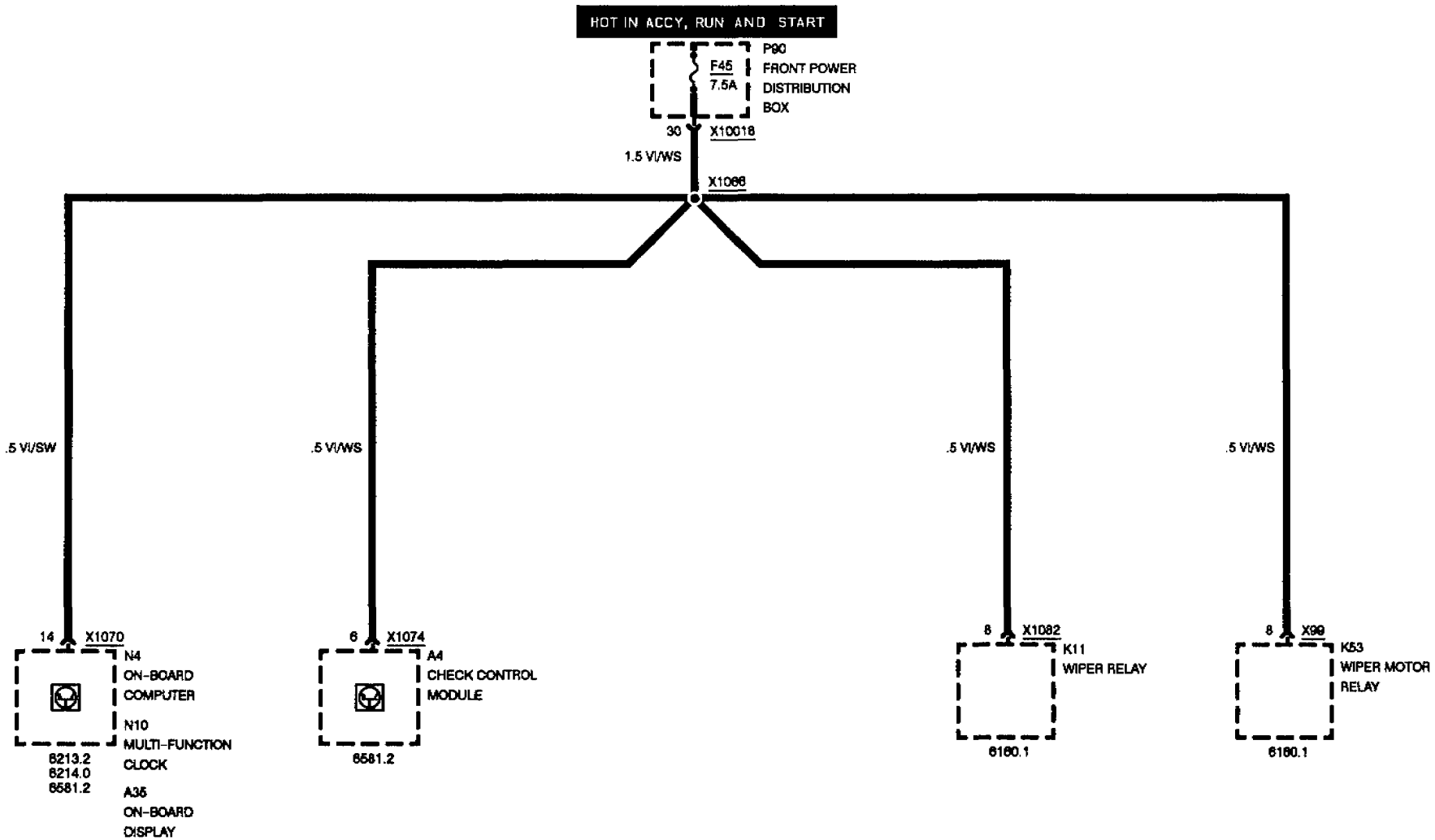
FUSE 44



BMW 3

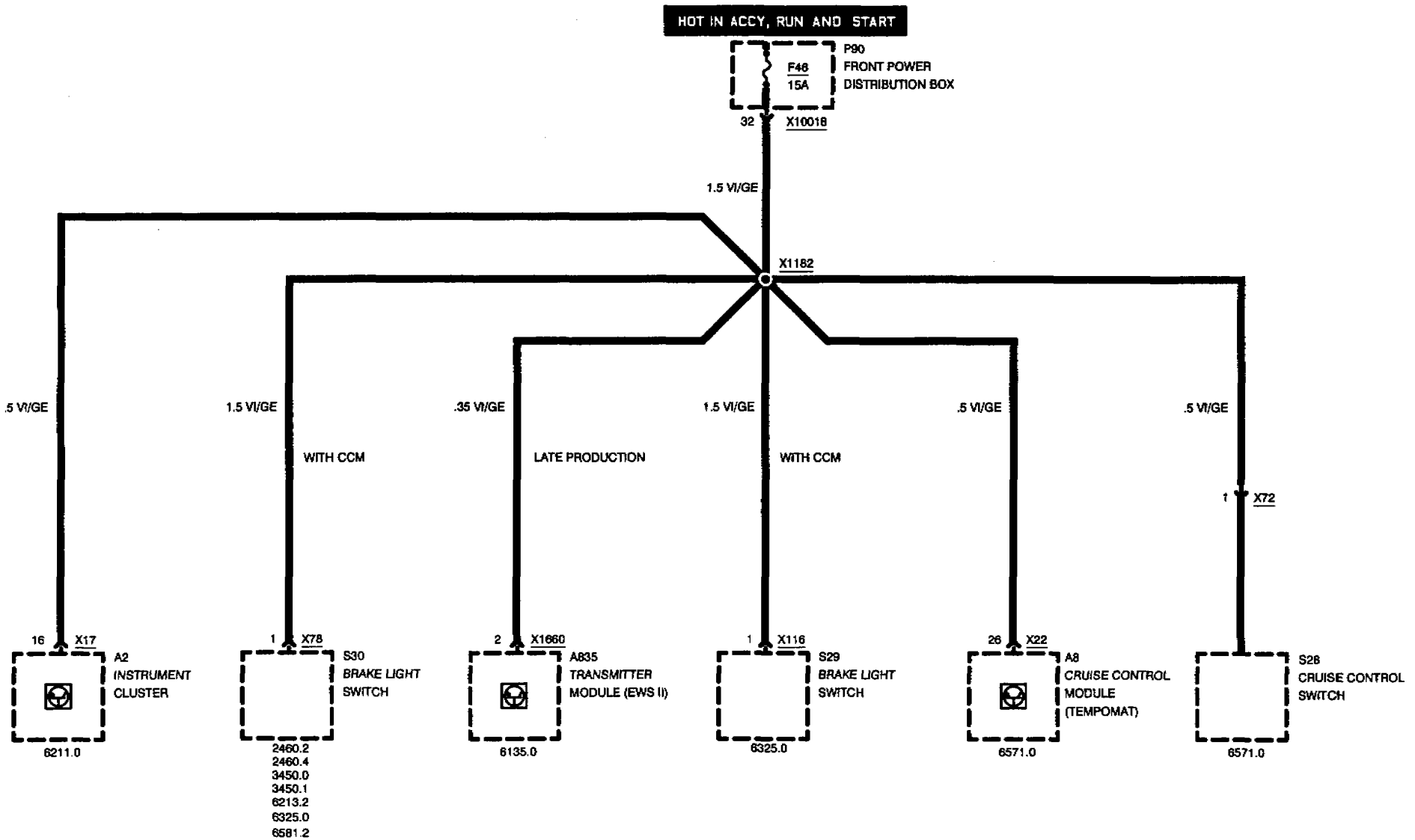
FUSE DETAILS

FUSE 45



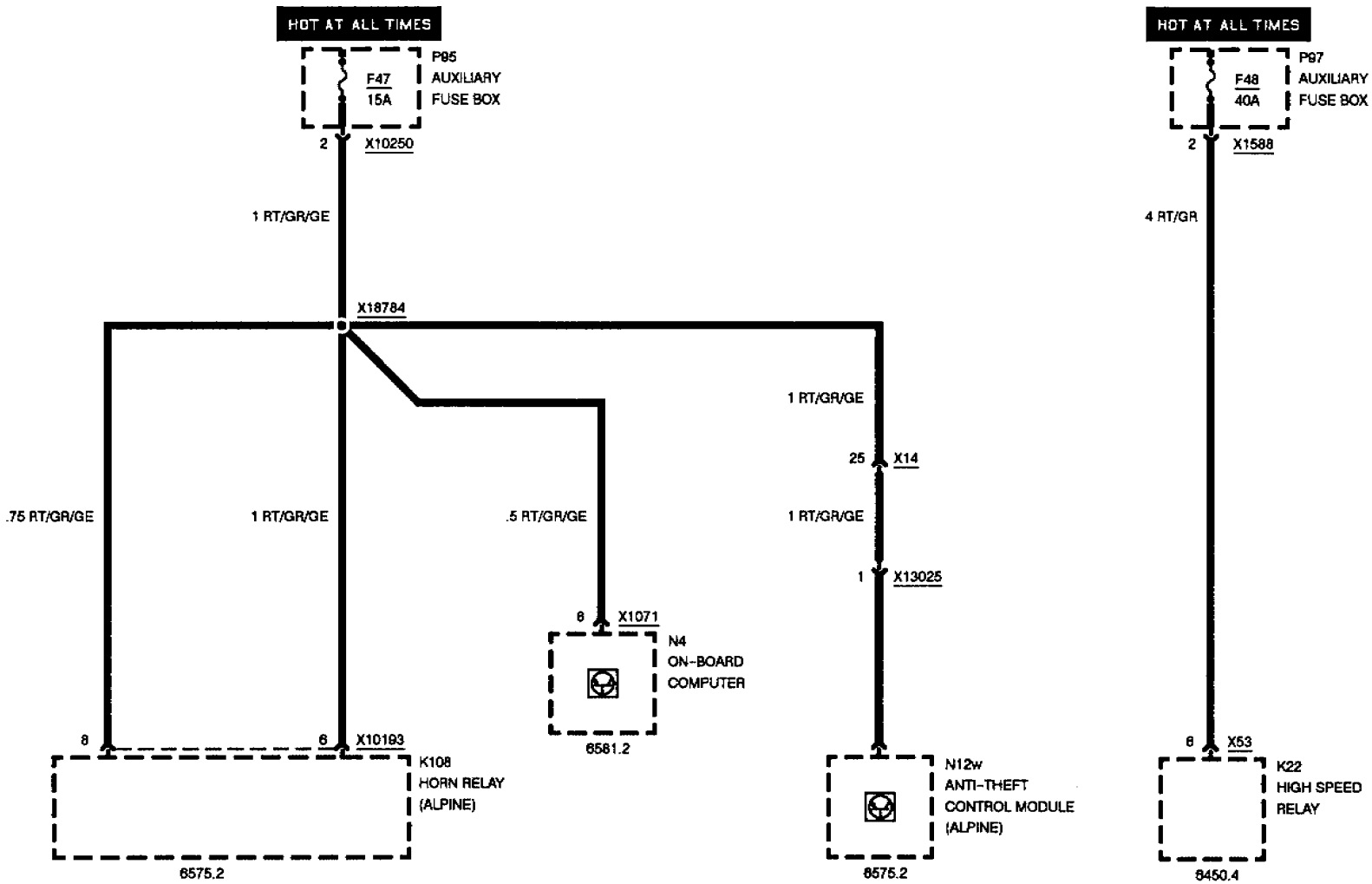
FUSE DETAILS

FUSE 46



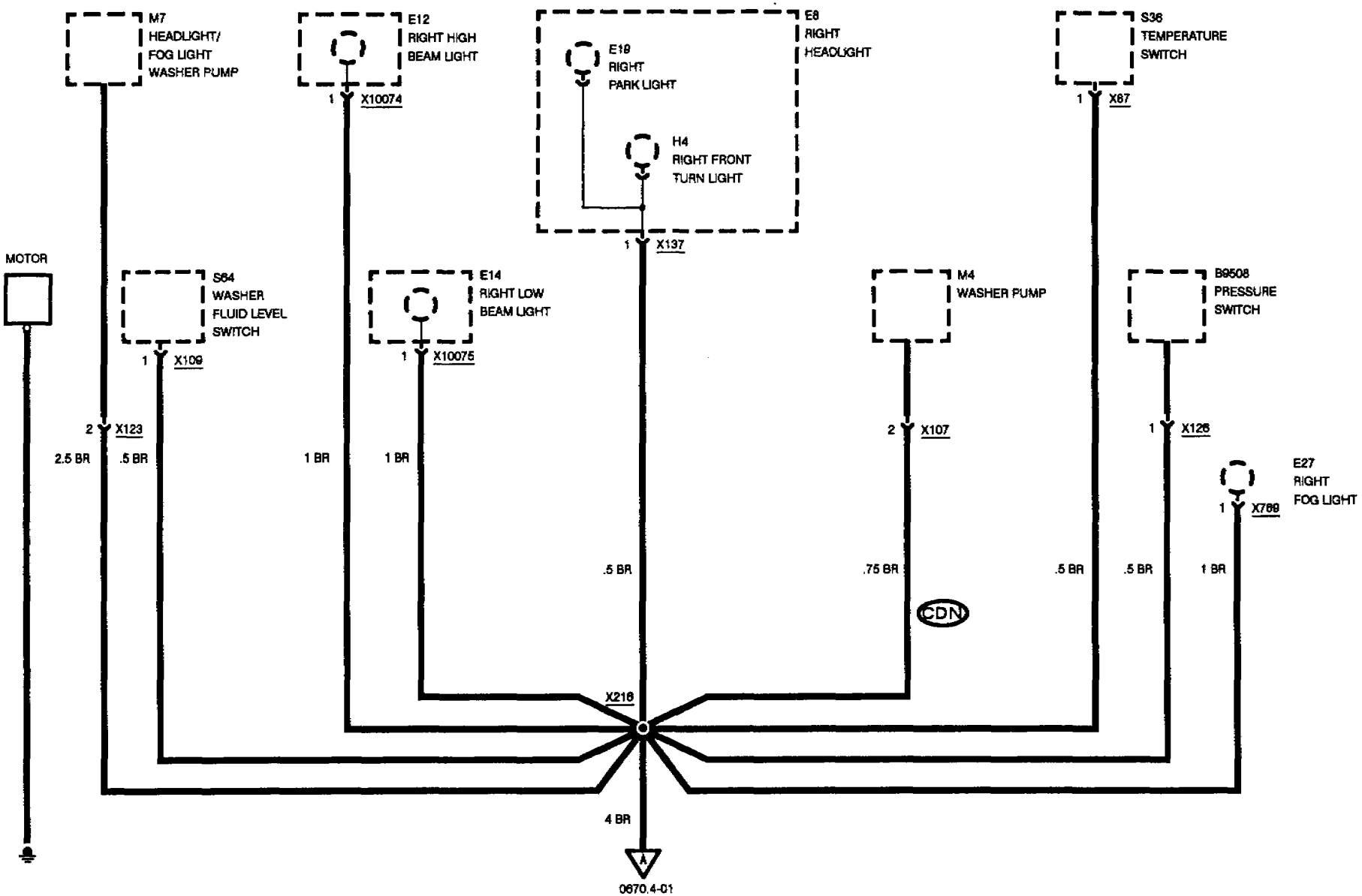
FUSE DETAILS

FUSE 47 AND 48



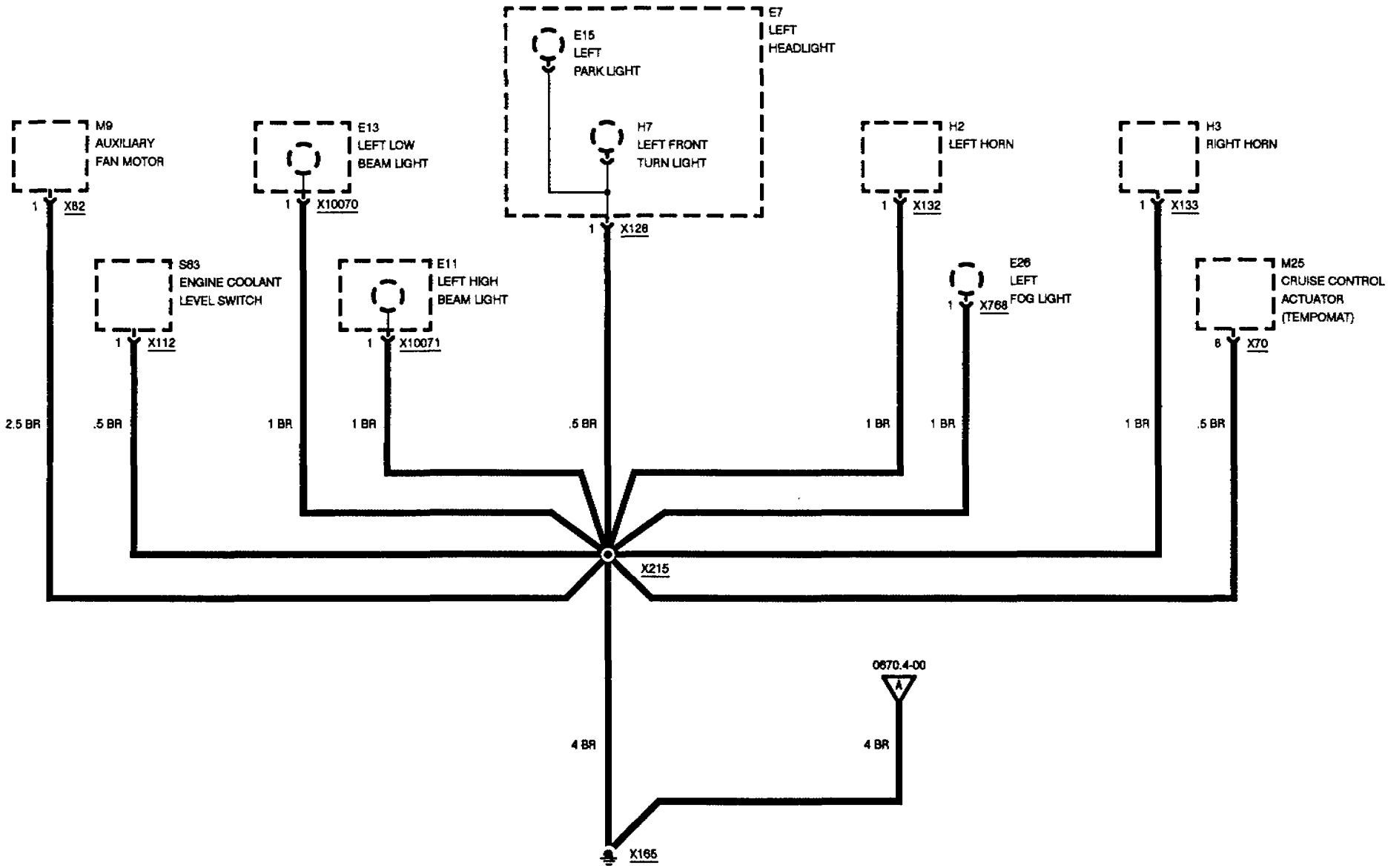
GROUND DISTRIBUTION

GROUND X165



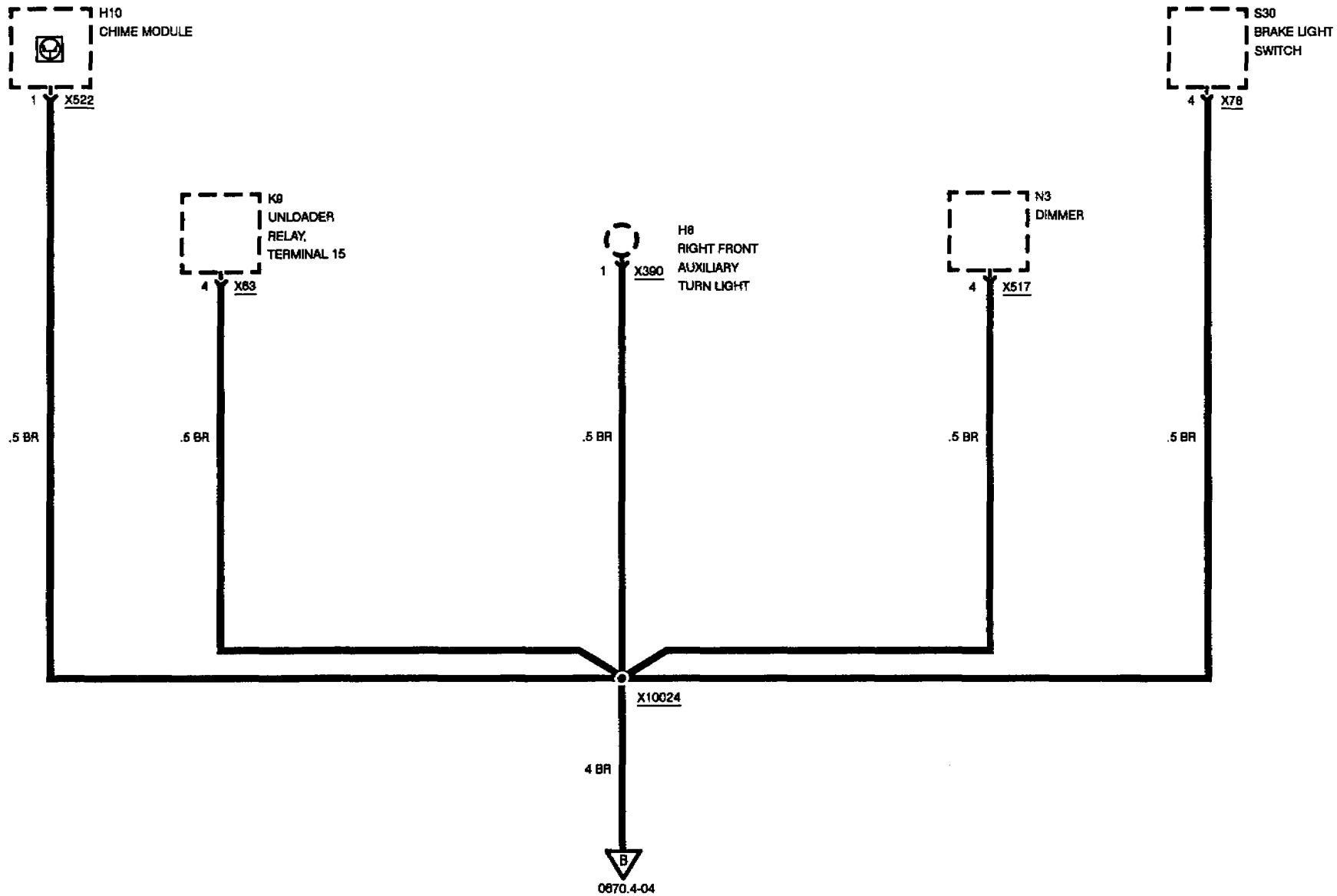
GROUND DISTRIBUTION

GROUND X165



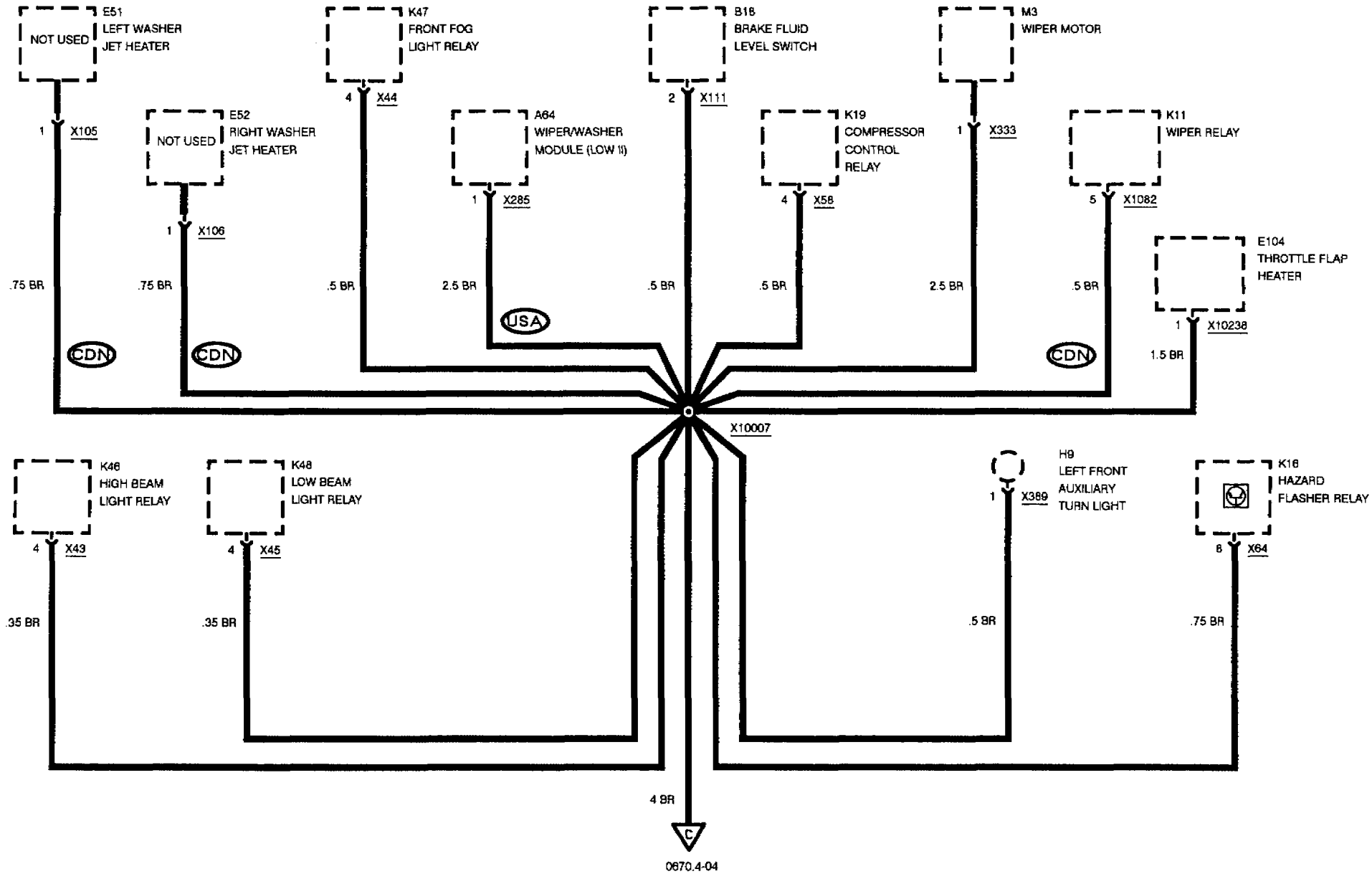
GROUND DISTRIBUTION

GROUND X173



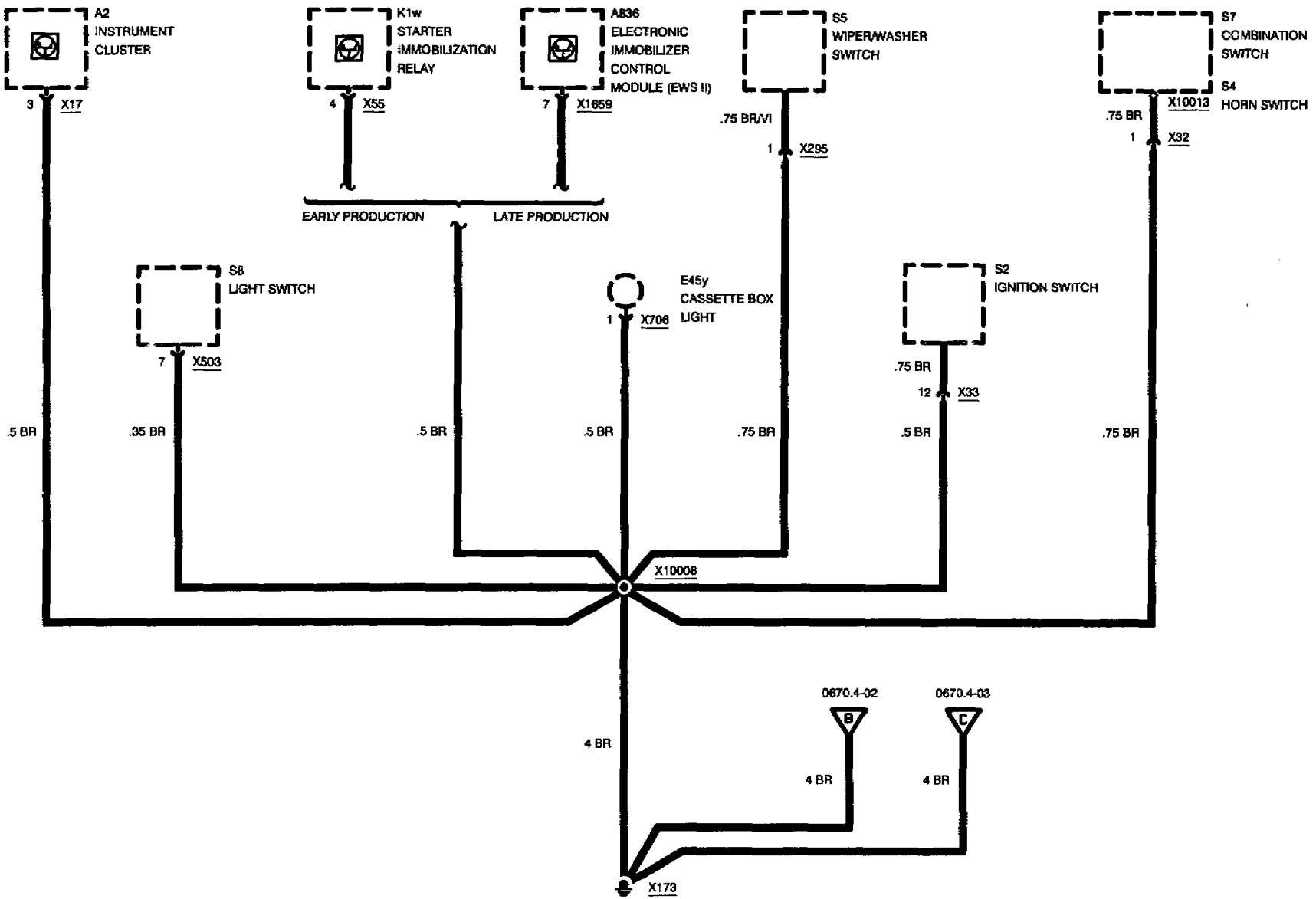
GROUND DISTRIBUTION

GROUND X173



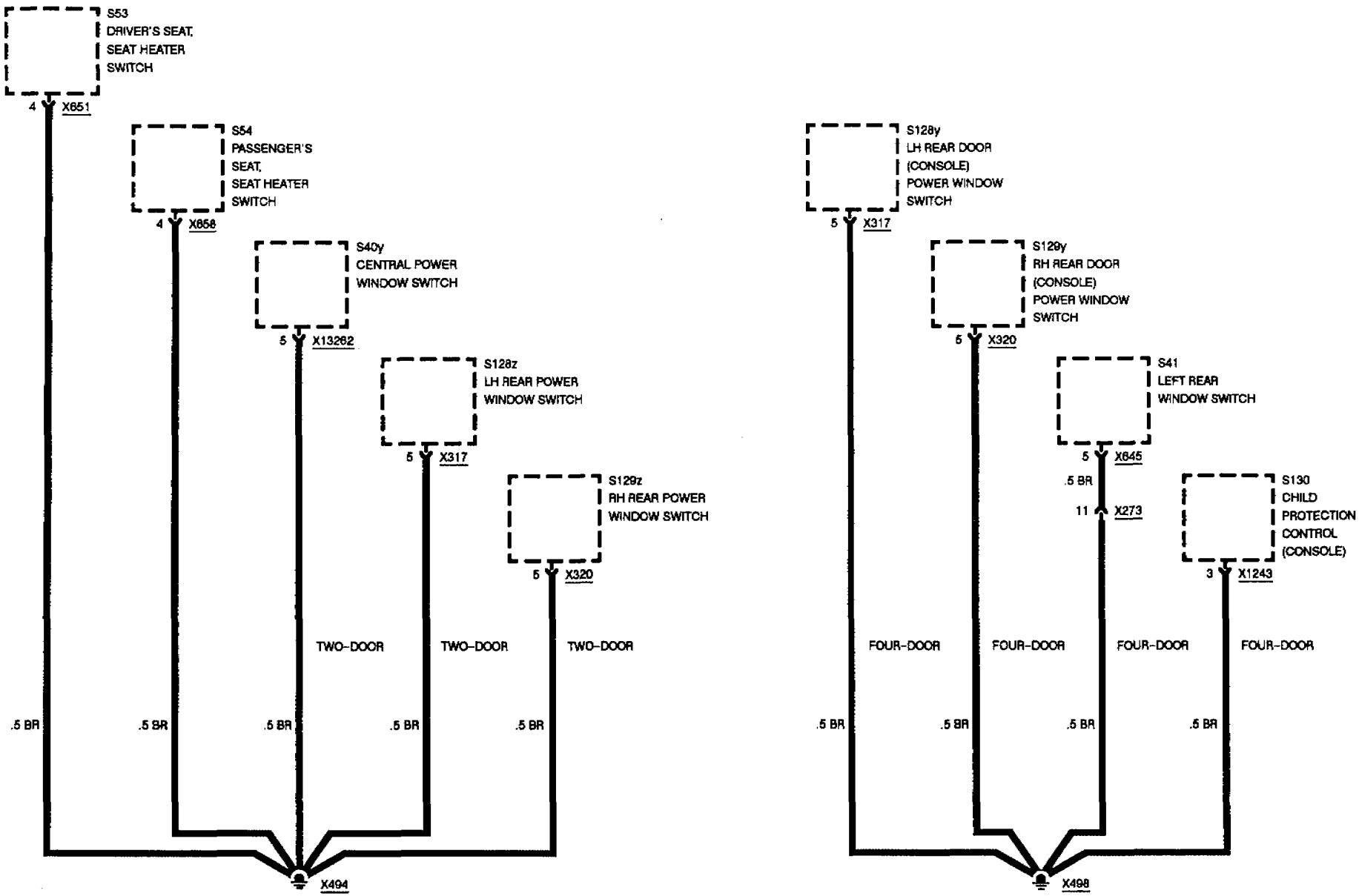
GROUND DISTRIBUTION

GROUND X173



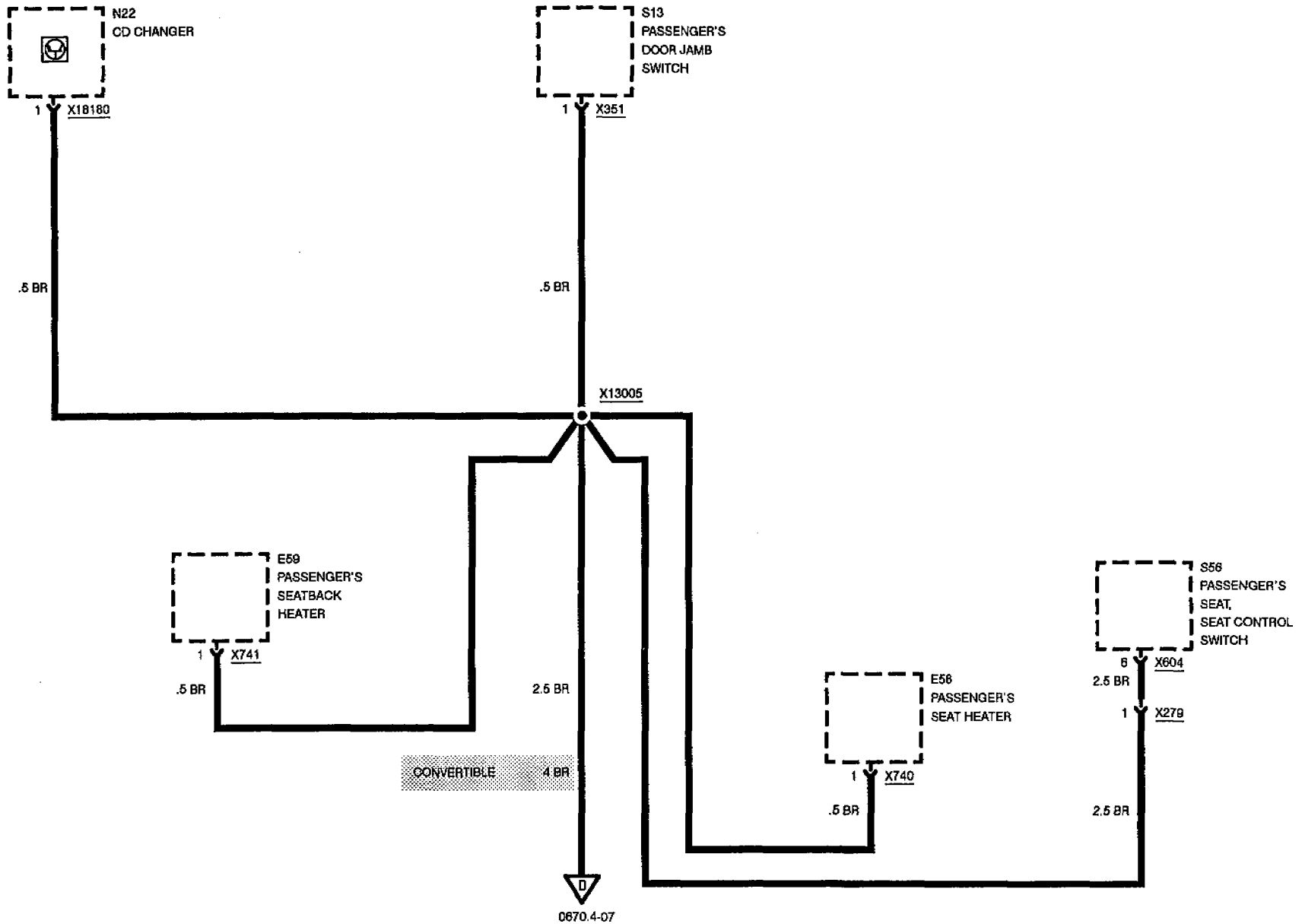
GROUND DISTRIBUTION

GROUNDS X494 AND X498



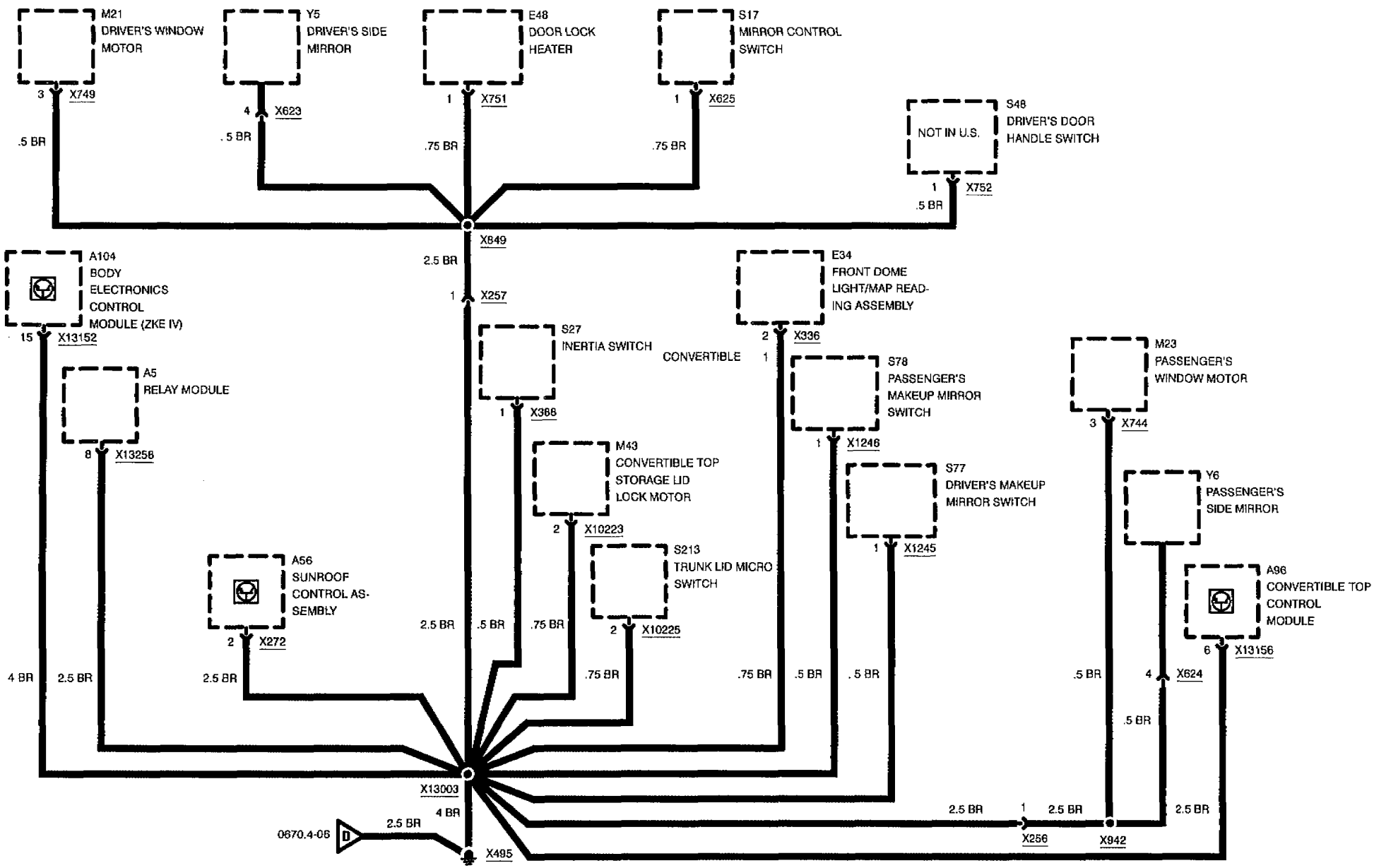
GROUND DISTRIBUTION

GROUND X495



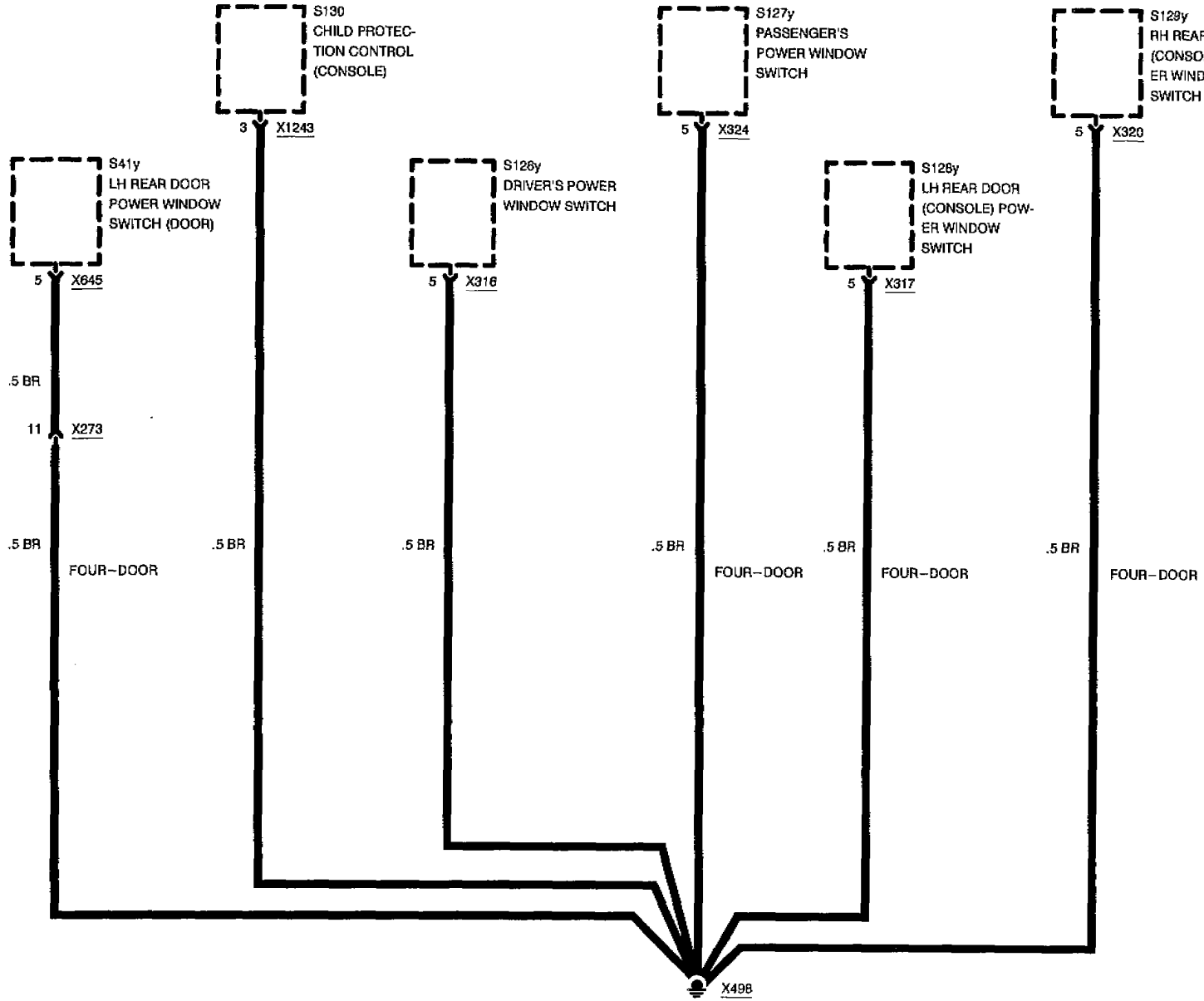
GROUND DISTRIBUTION

GROUND X495



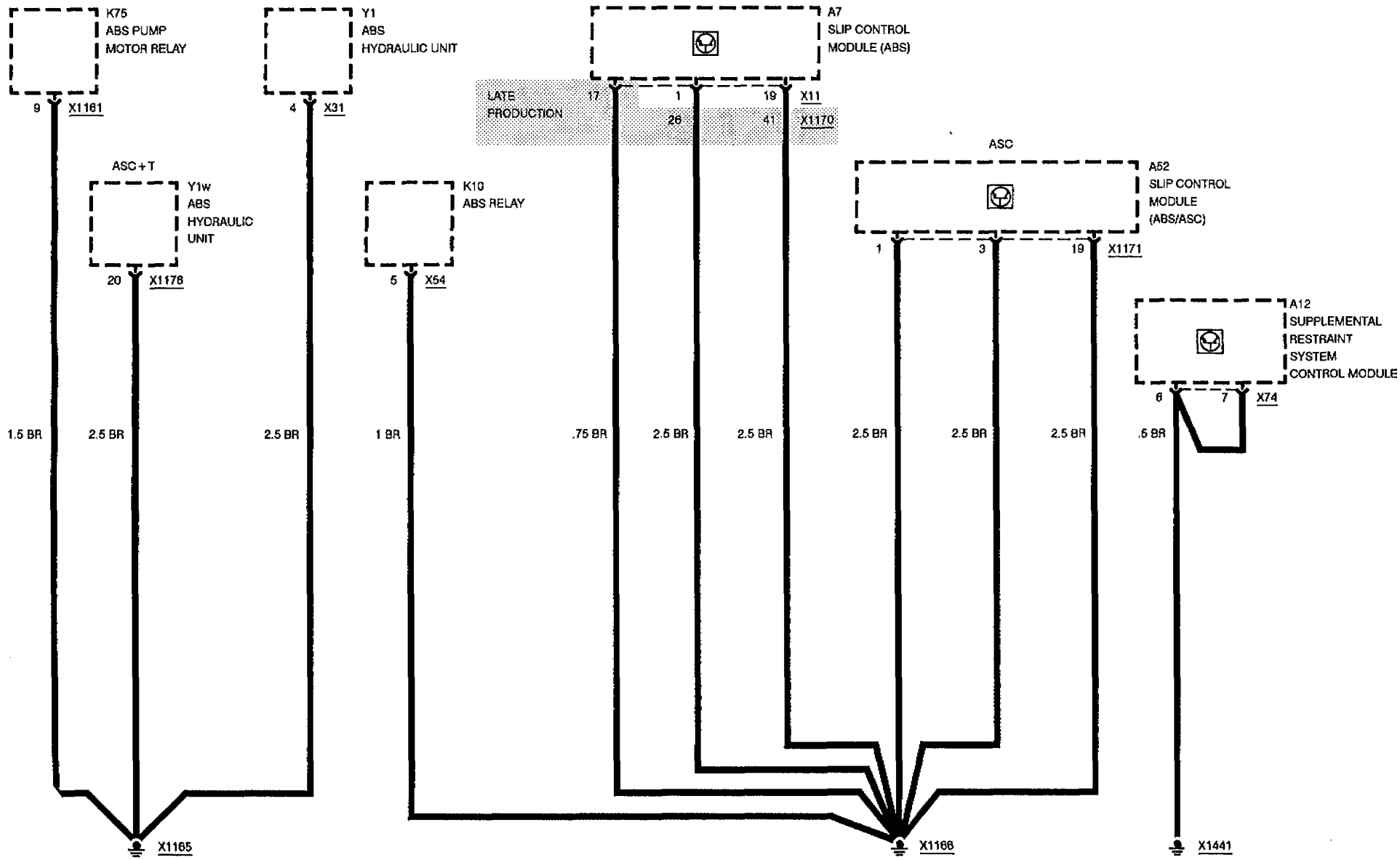
GROUND DISTRIBUTION

GROUND X498



GROUND DISTRIBUTION

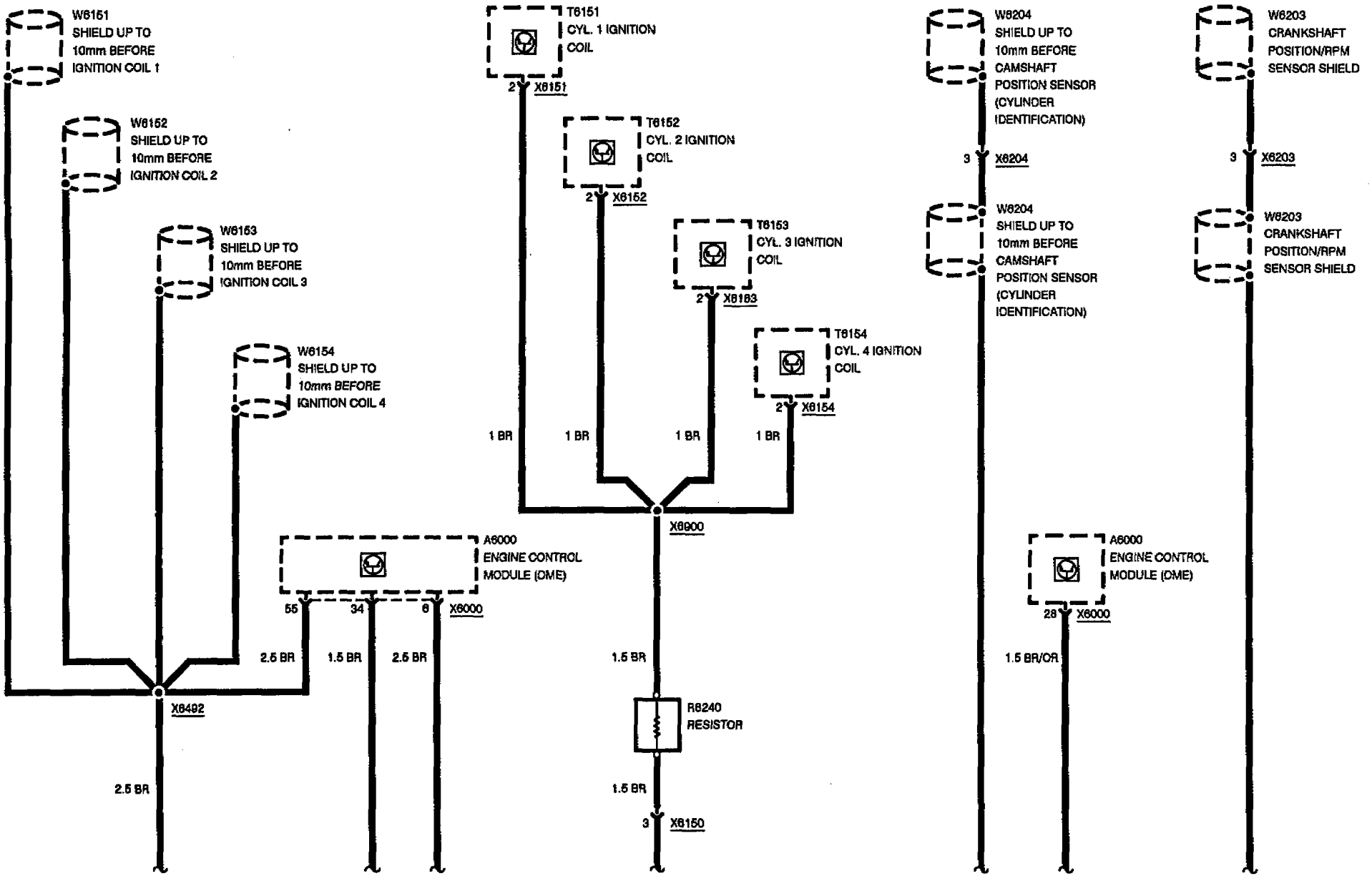
GROUNDS X1165, X1166, AND X1441

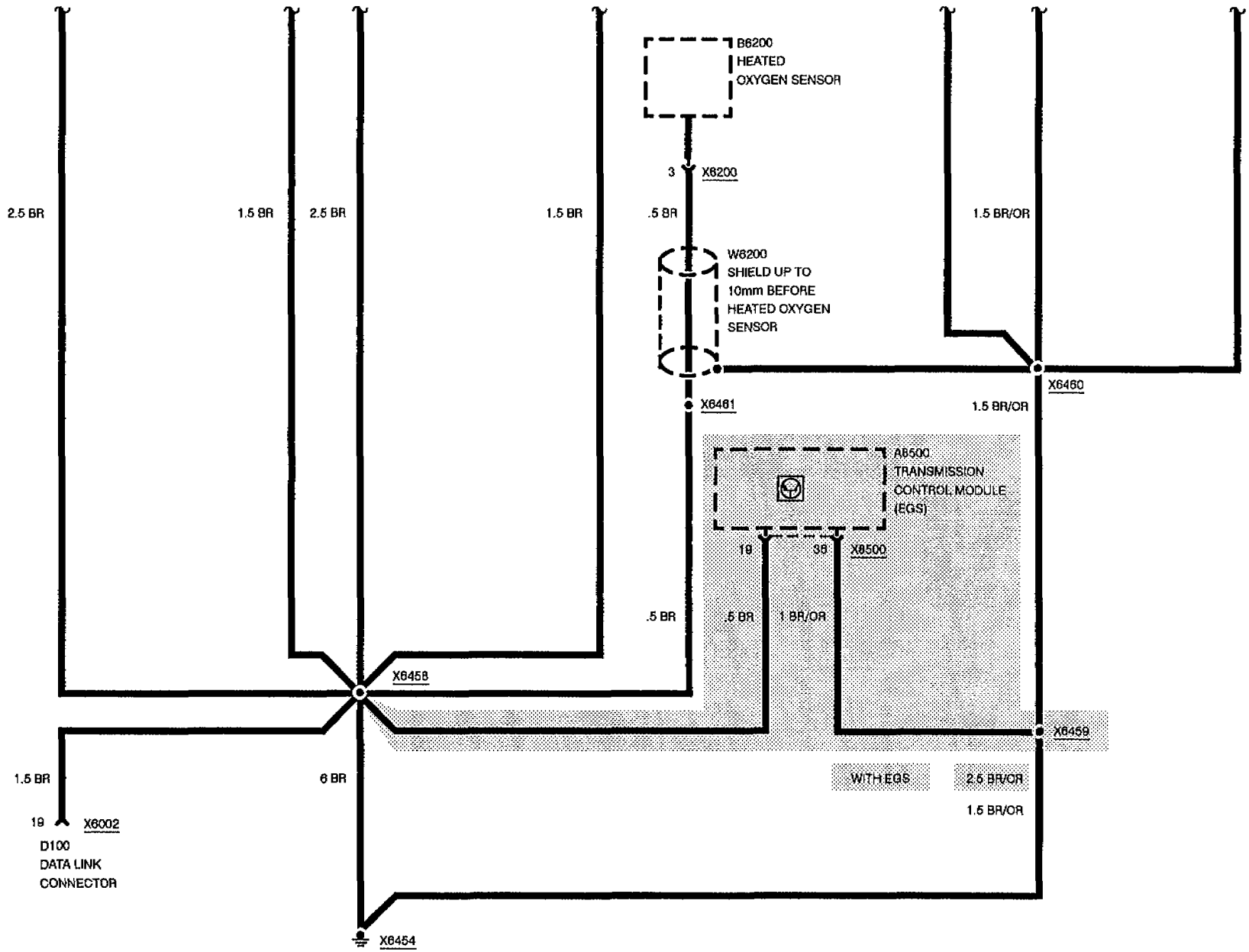


GROUND DISTRIBUTION

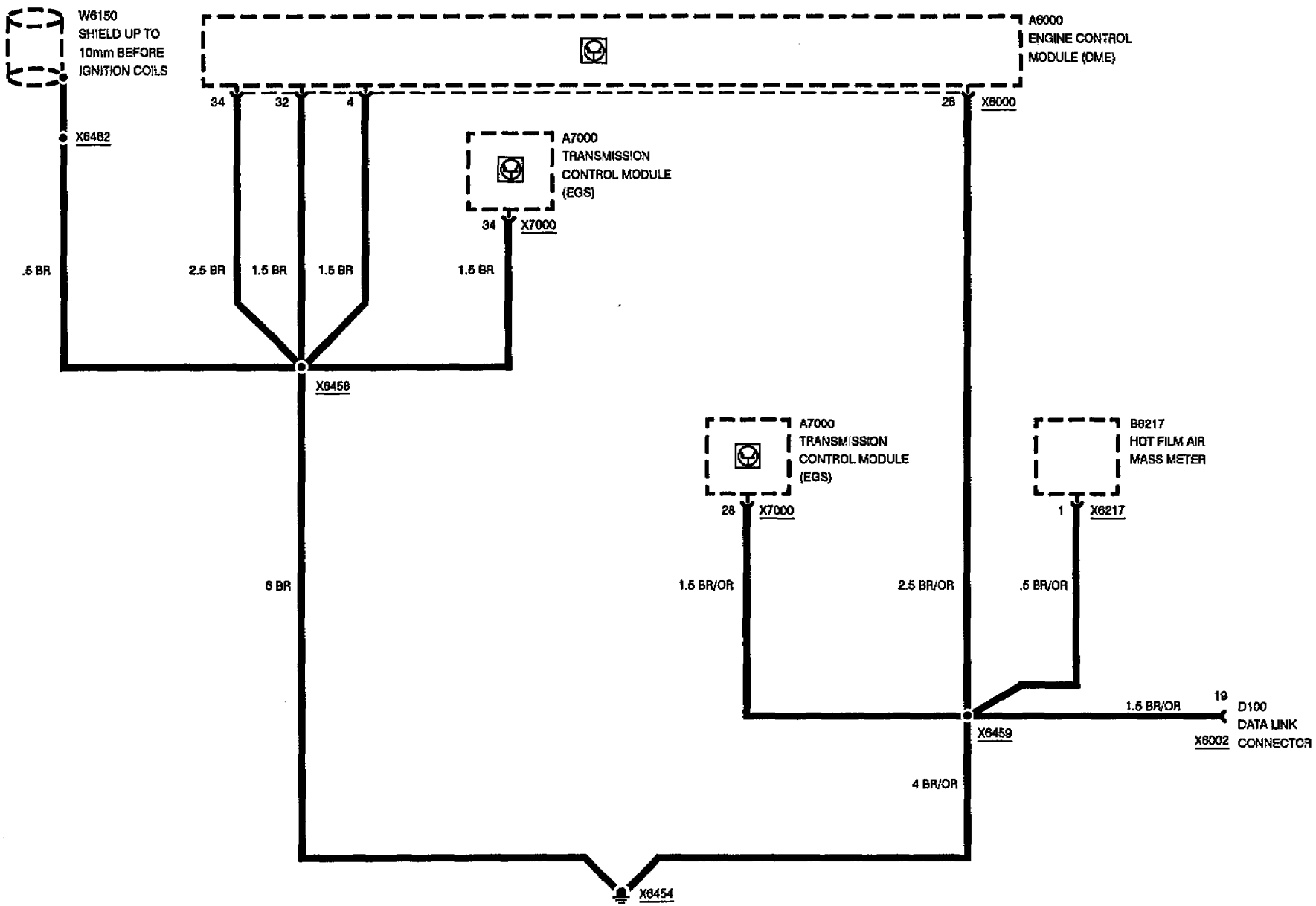
318i

GROUND X6454



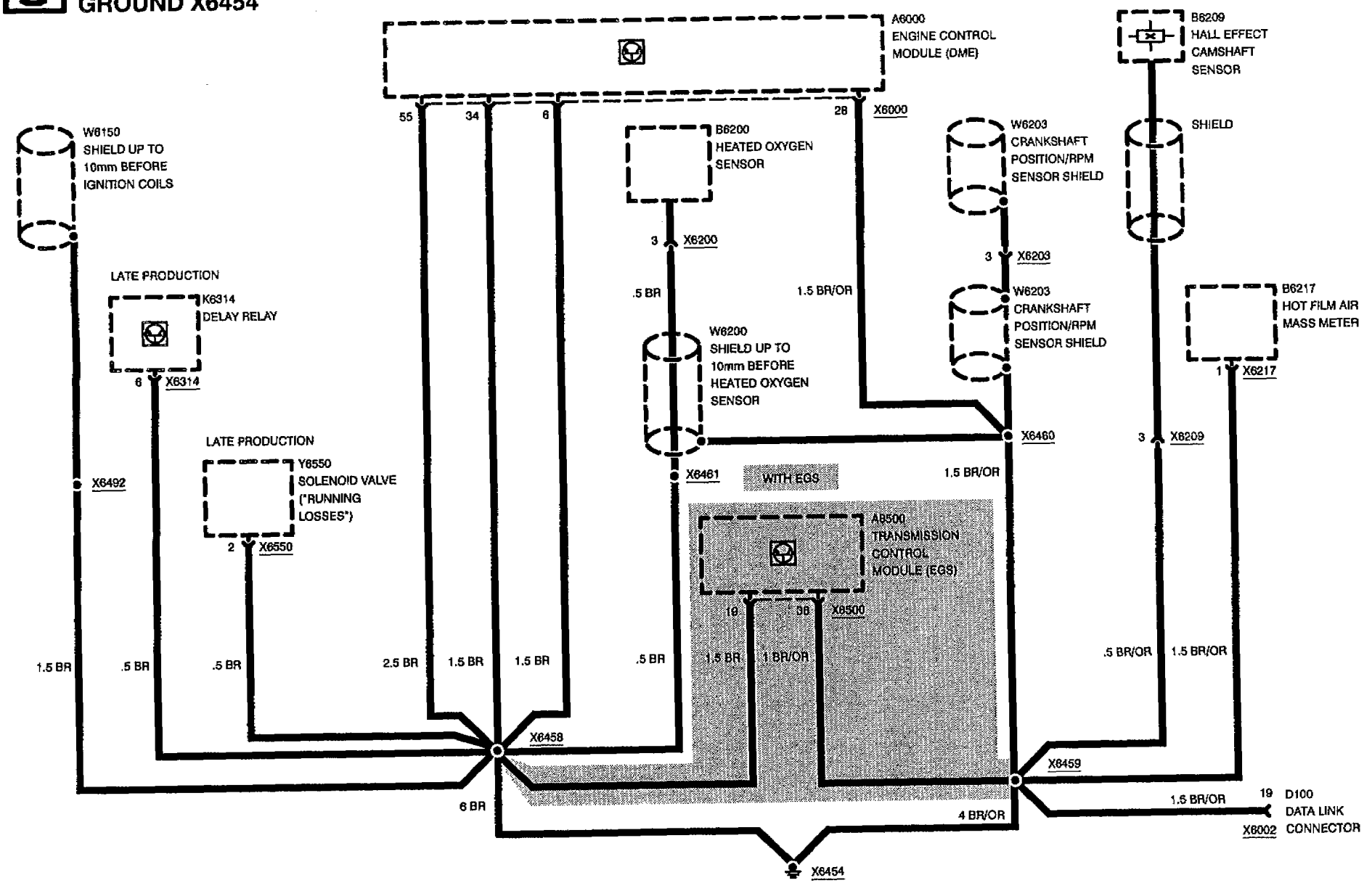

B6200
HEATED
OXYGEN SENSOR
3
X6200
2.5 BR
1.5 BR
2.5 BR
1.5 BR
.5 BR
1.5 BR/OR
W6200
SHIELD UP TO
10mm BEFORE
HEATED OXYGEN
SENSOR
X6460
X6461
1.5 BR/OR
A6500
TRANSMISSION
CONTROL MODULE
(EGS)
19
38
X6500
.5 BR
.5 BR
1 BR/OR
X6458
X6459
1.5 BR
6 BR
WITH EGS
2.5 BR/OR
1.5 BR/OR
19
X6002
D100
DATA LINK
CONNECTOR
X6454

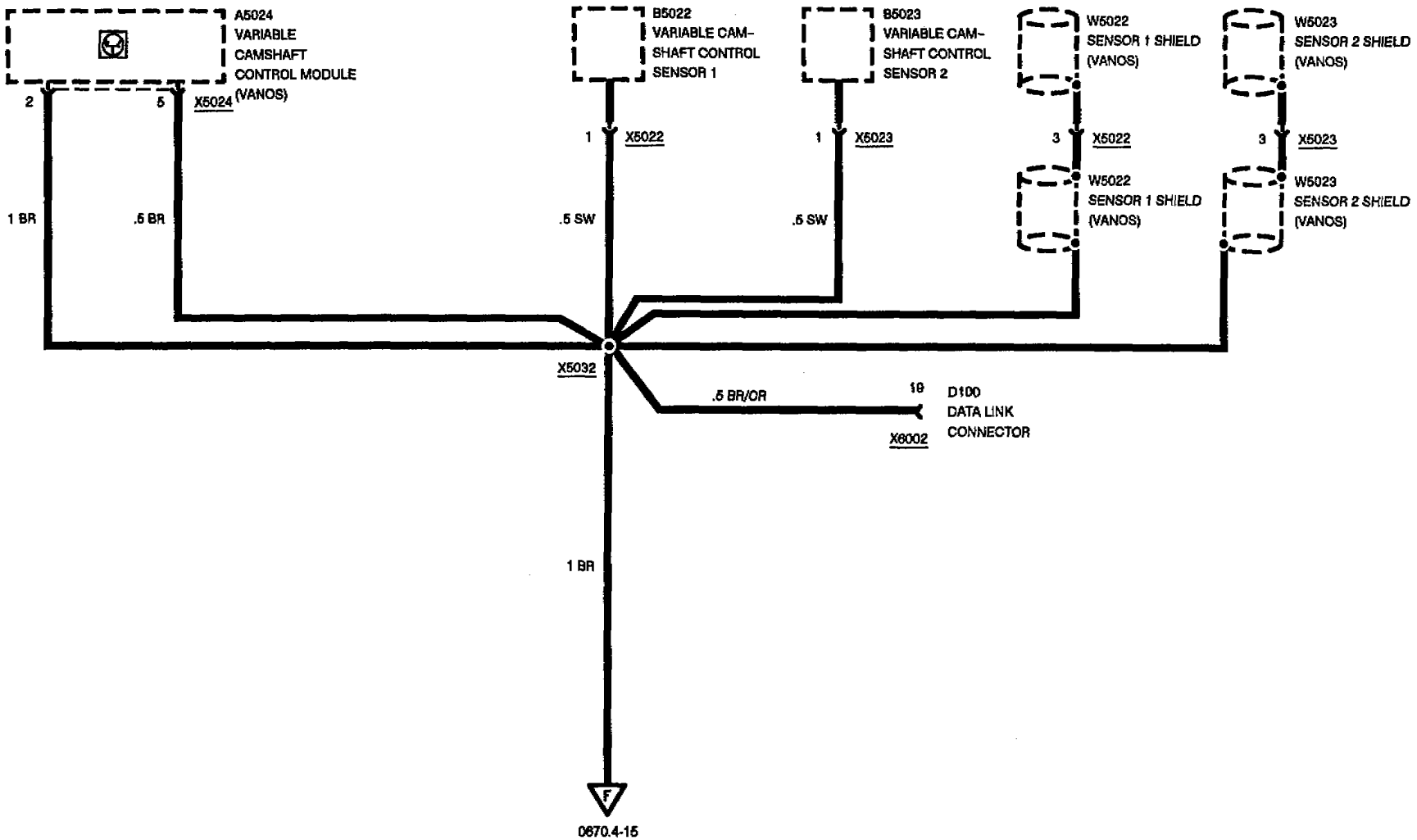
GROUND X6454



GROUND DISTRIBUTION

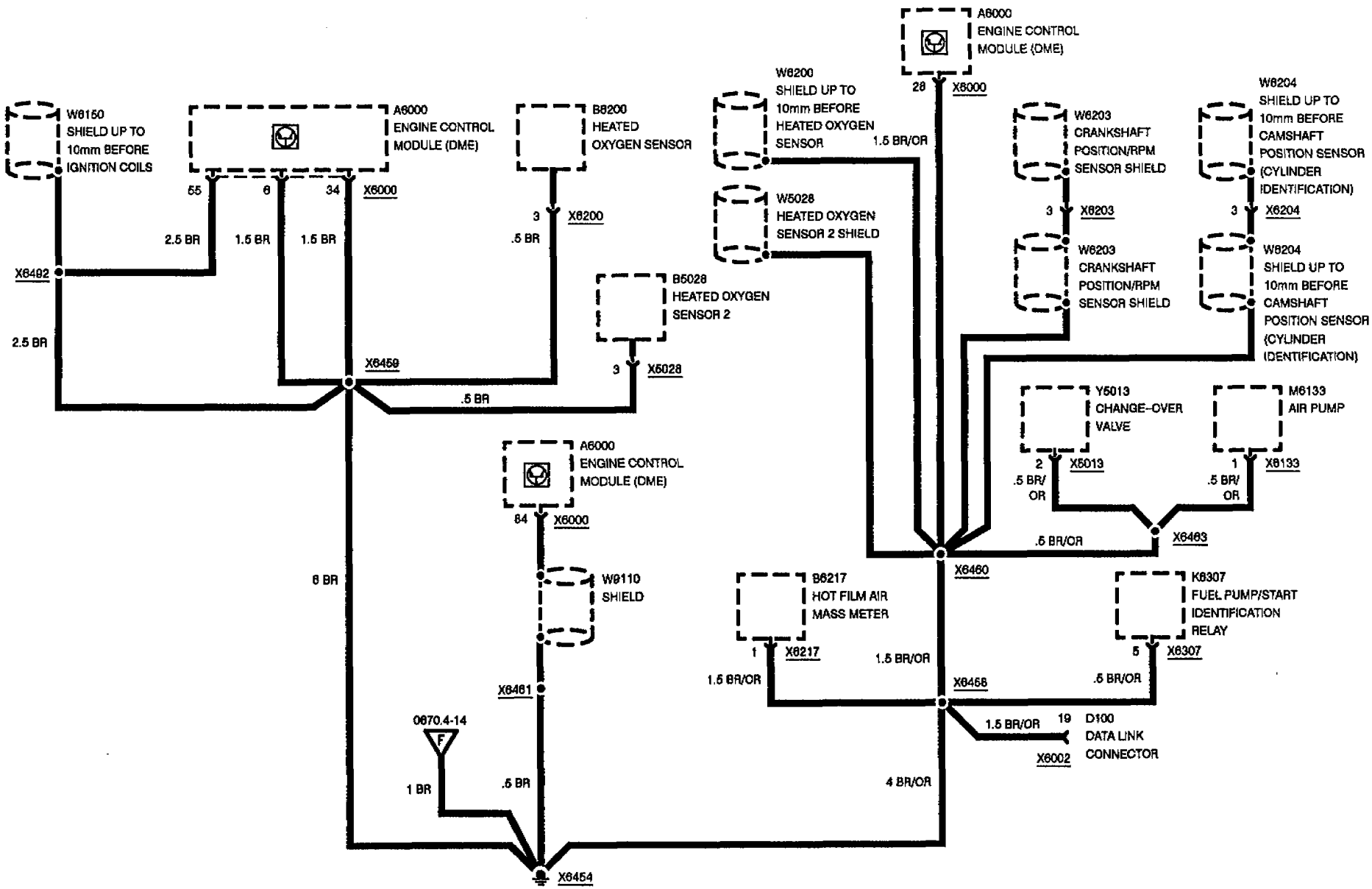
GROUND X6454



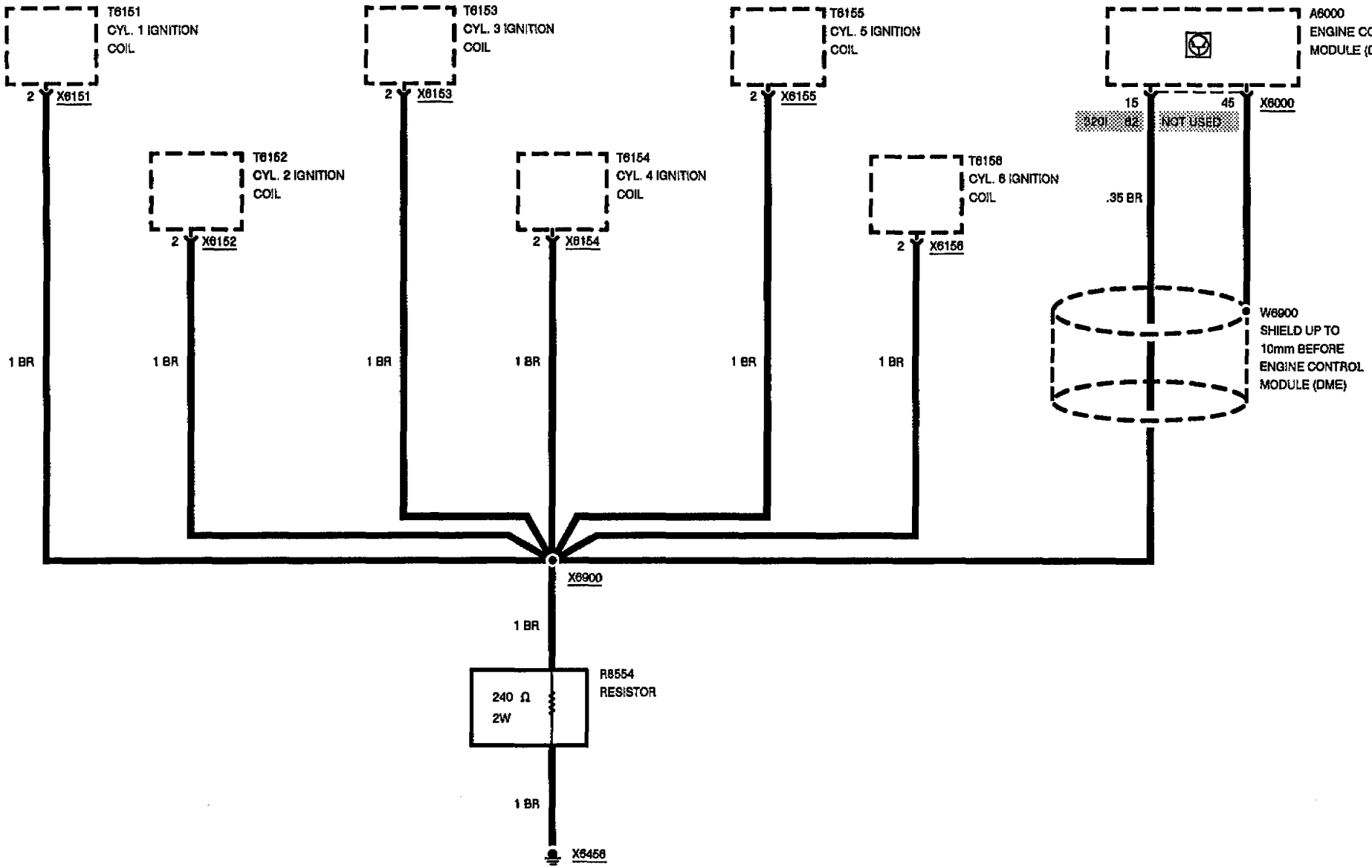

A5024
VARIABLE
CAMSHAFT
CONTROL MODULE
(VANOS)
2
5
X5024
1 BR
.5 BR
B5022
VARIABLE CAM-
SHAFT CONTROL
SENSOR 1
1
X5022
.5 SW
B5023
VARIABLE CAM-
SHAFT CONTROL
SENSOR 2
1
X5023
.5 SW
W5022
SENSOR 1 SHIELD
(VANOS)
3
X5022
W5022
SENSOR 1 SHIELD
(VANOS)
W5023
SENSOR 2 SHIELD
(VANOS)
3
X5023
W5023
SENSOR 2 SHIELD
(VANOS)
X5032
.5 BR/OR
16
D100
DATA LINK
CONNECTOR
X6002
1 BR
F
0670.4-15

GROUND DISTRIBUTION

GROUND X6454



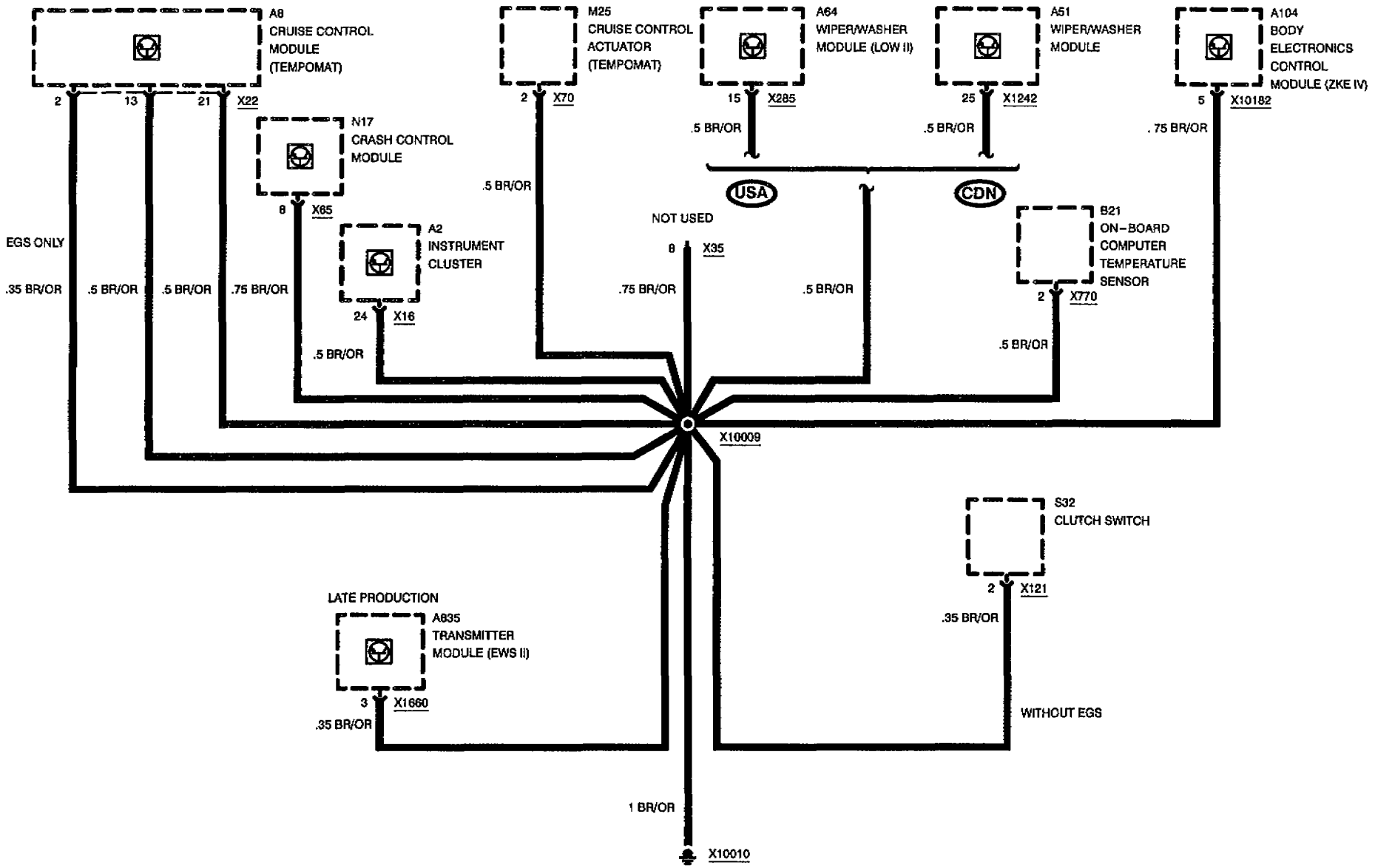
GROUND X6456



BMW 3

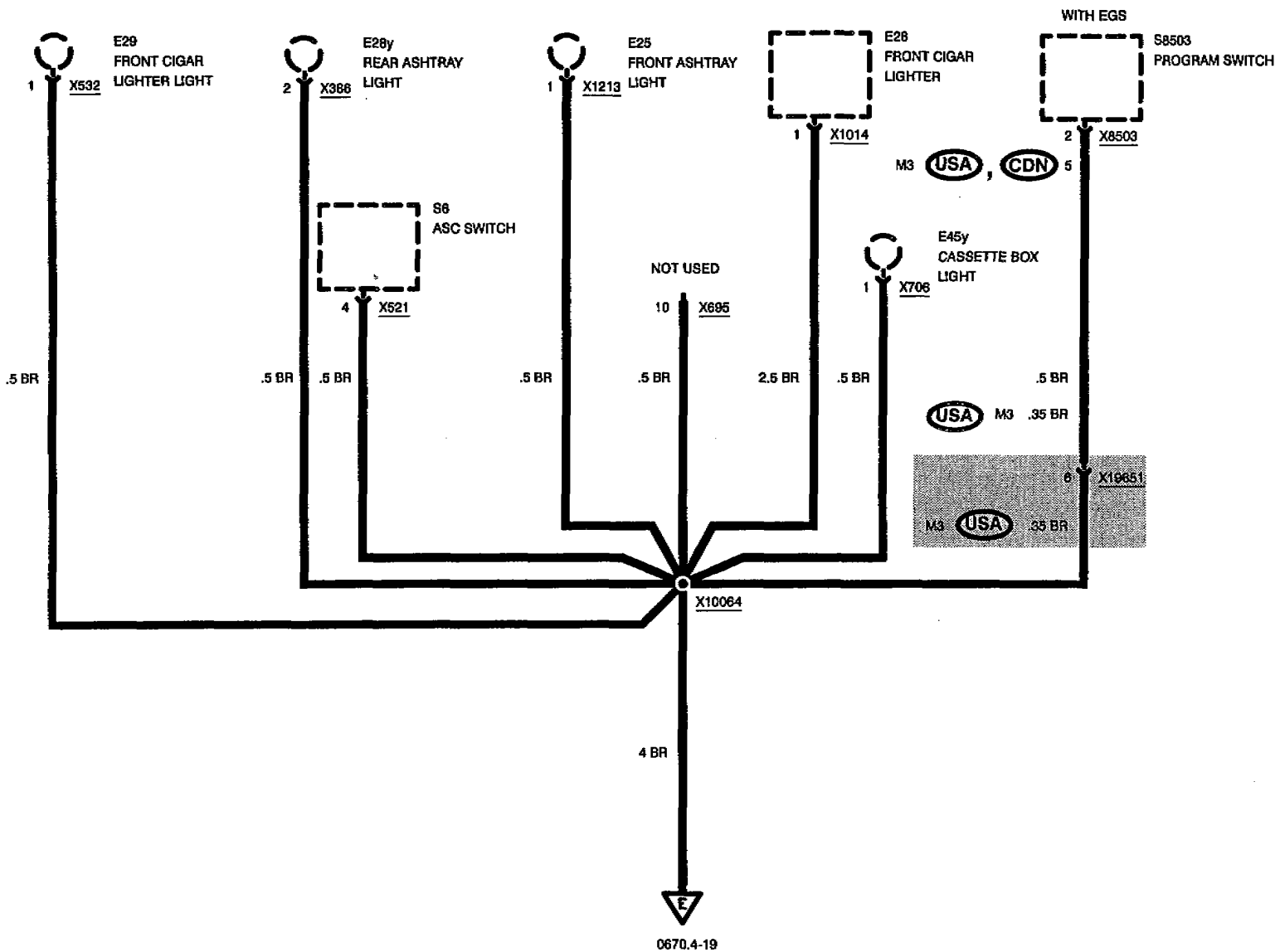
GROUND DISTRIBUTION

GROUND X10010



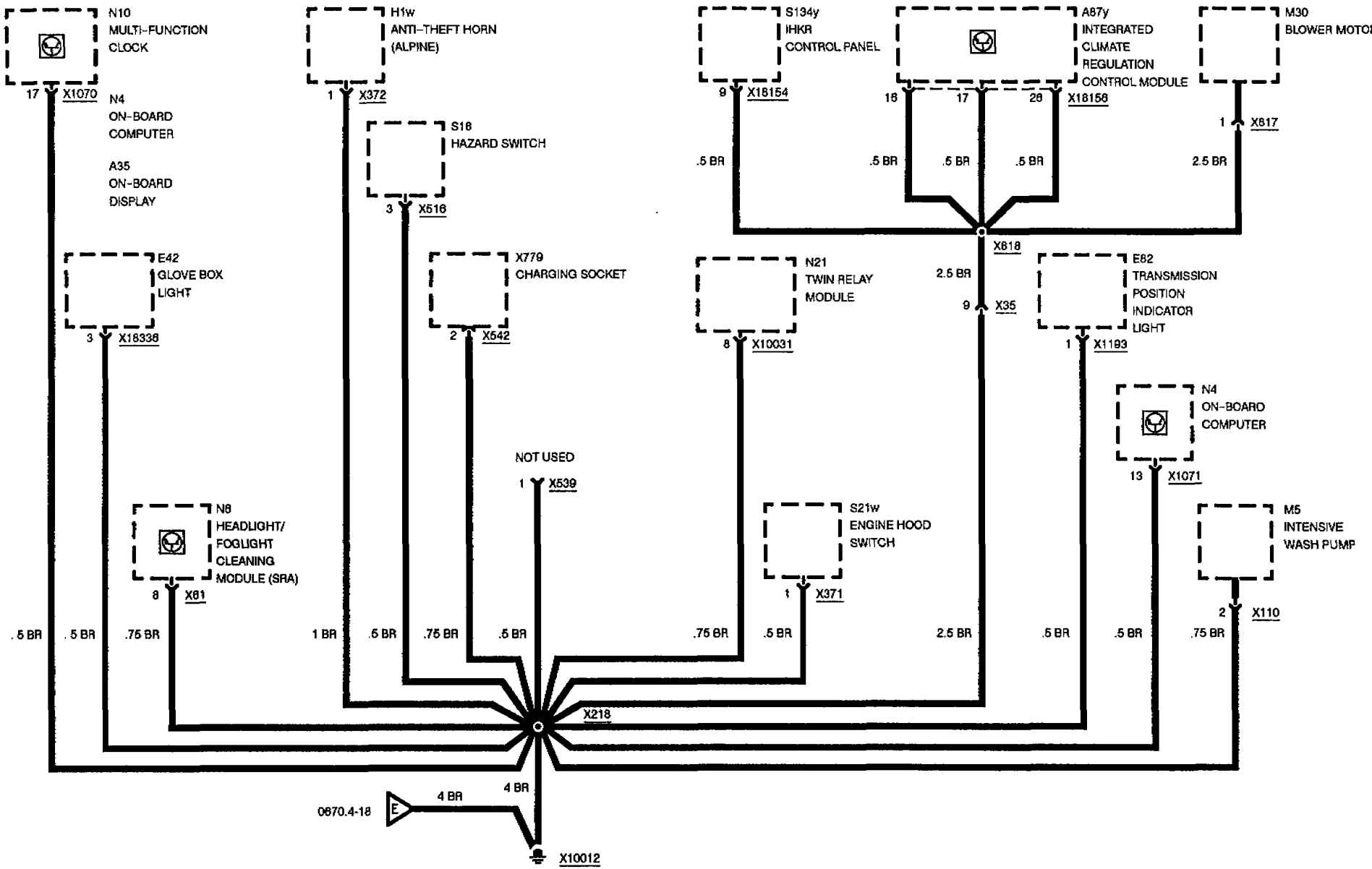
GROUND DISTRIBUTION

GROUND X10012



GROUND DISTRIBUTION

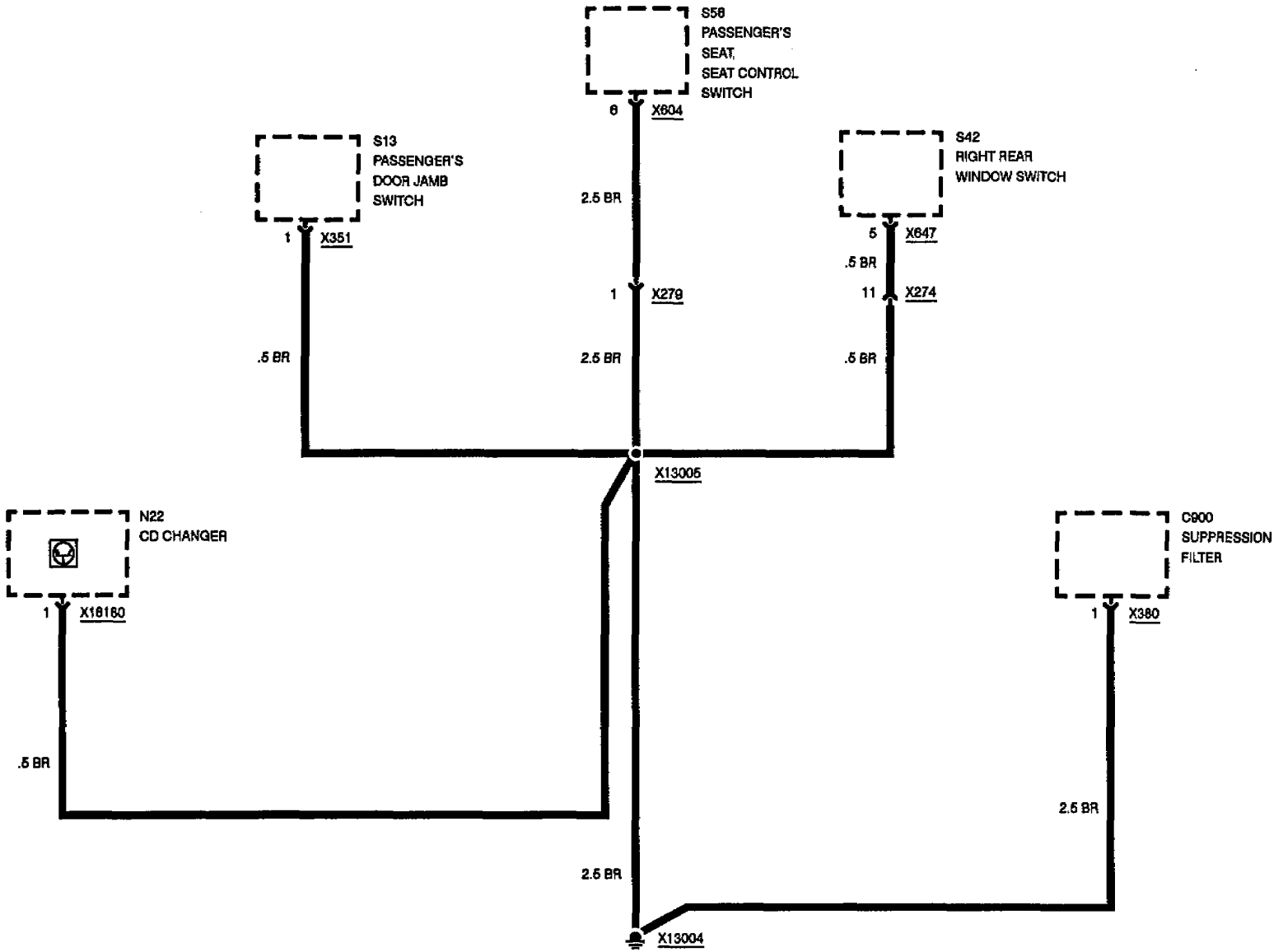
GROUND X10012



GROUND DISTRIBUTION

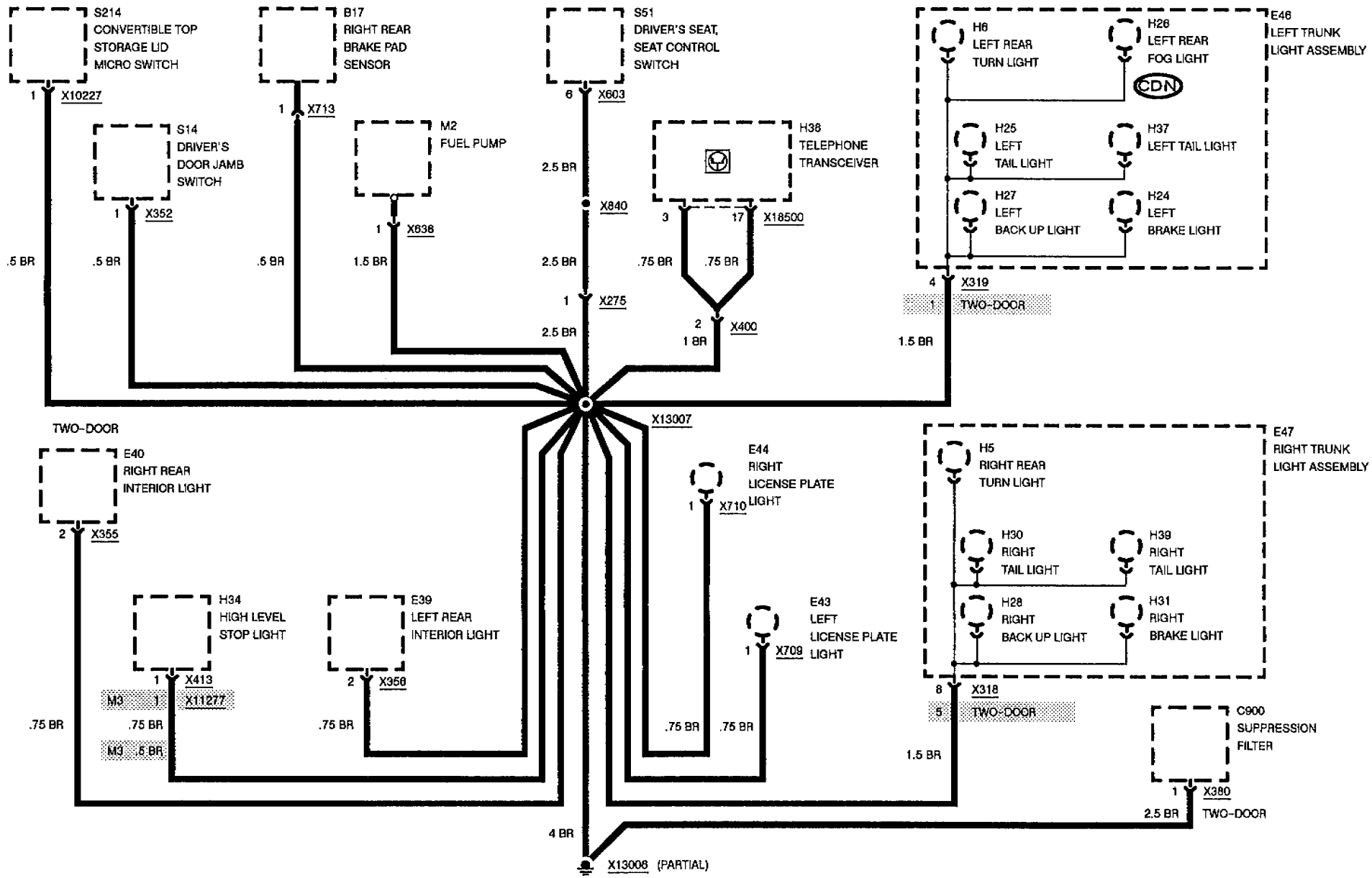
GROUND X13004

FOUR-DOOR



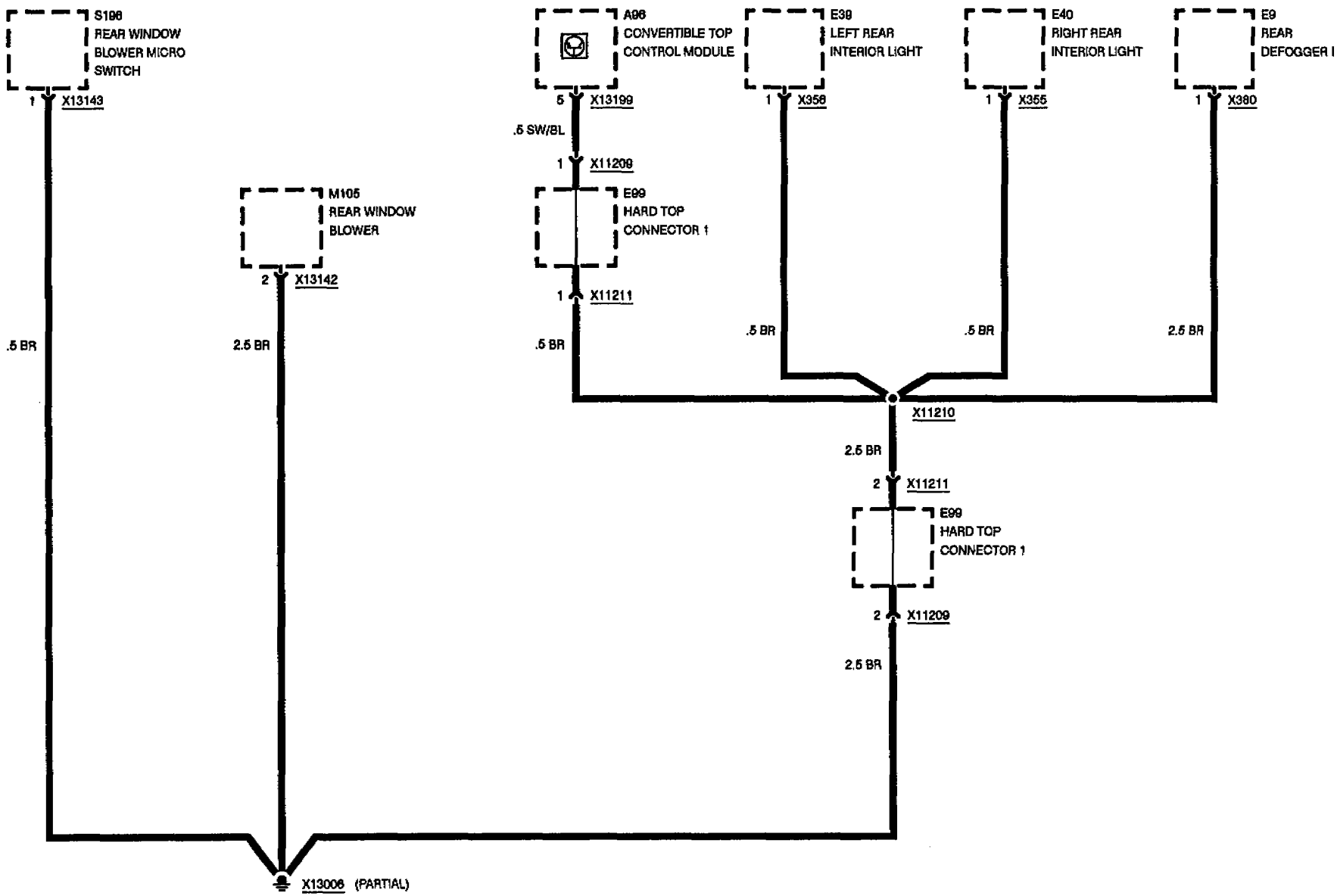
GROUND DISTRIBUTION

GROUND X13006



GROUND DISTRIBUTION

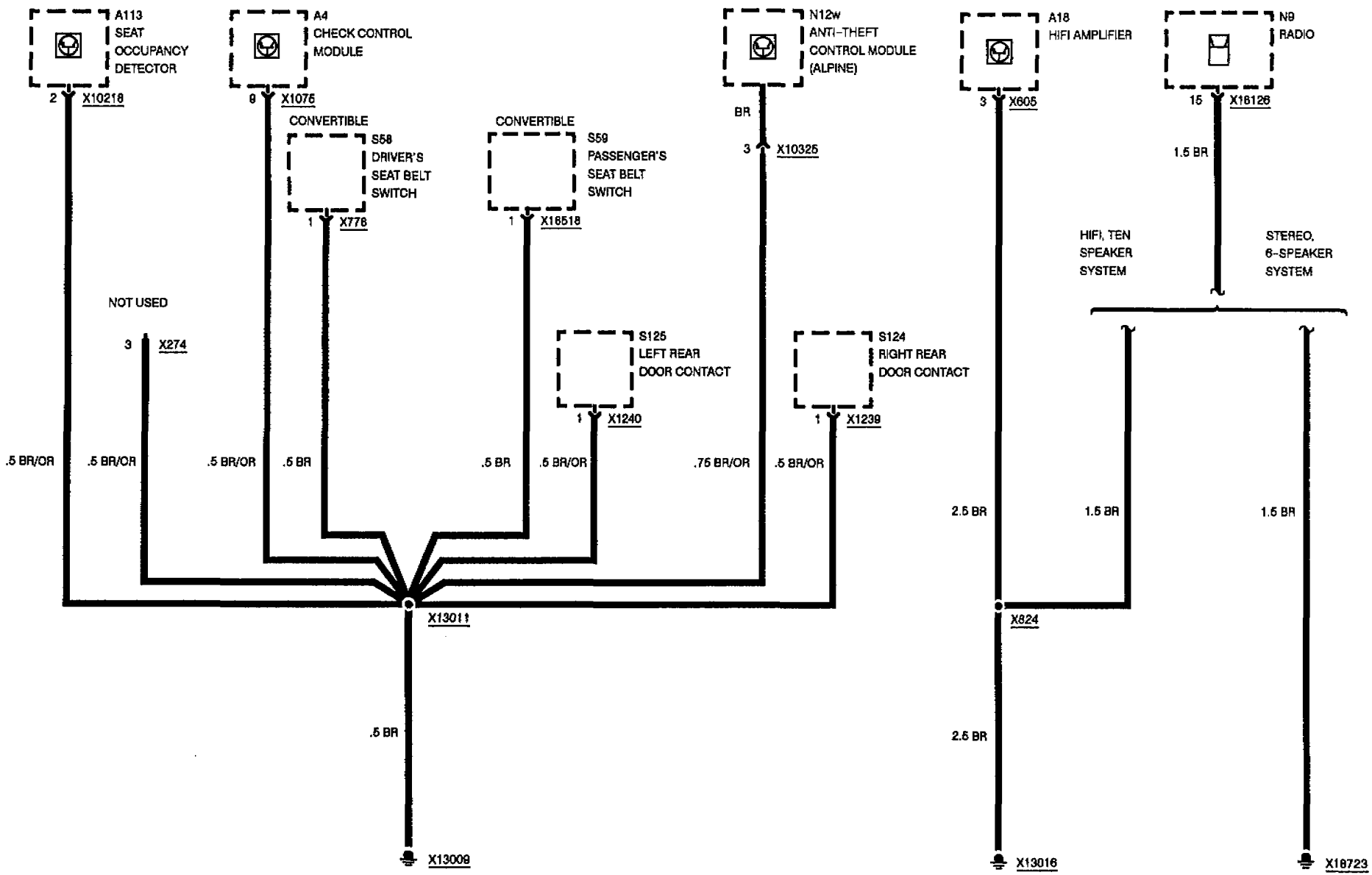
GROUND X13006



BMW 3

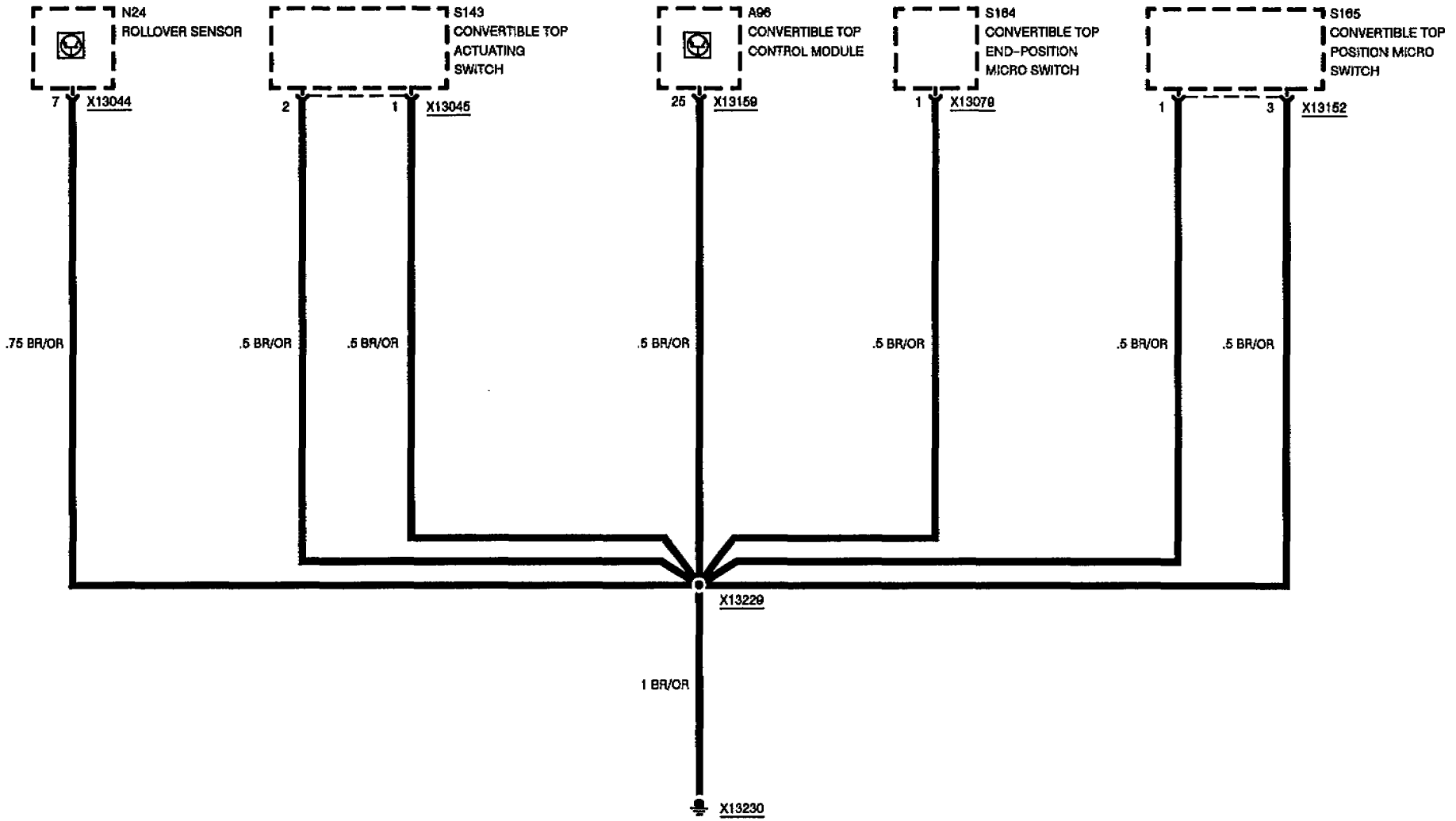
GROUND DISTRIBUTION

GROUNDS X13009, X13016, AND X18723

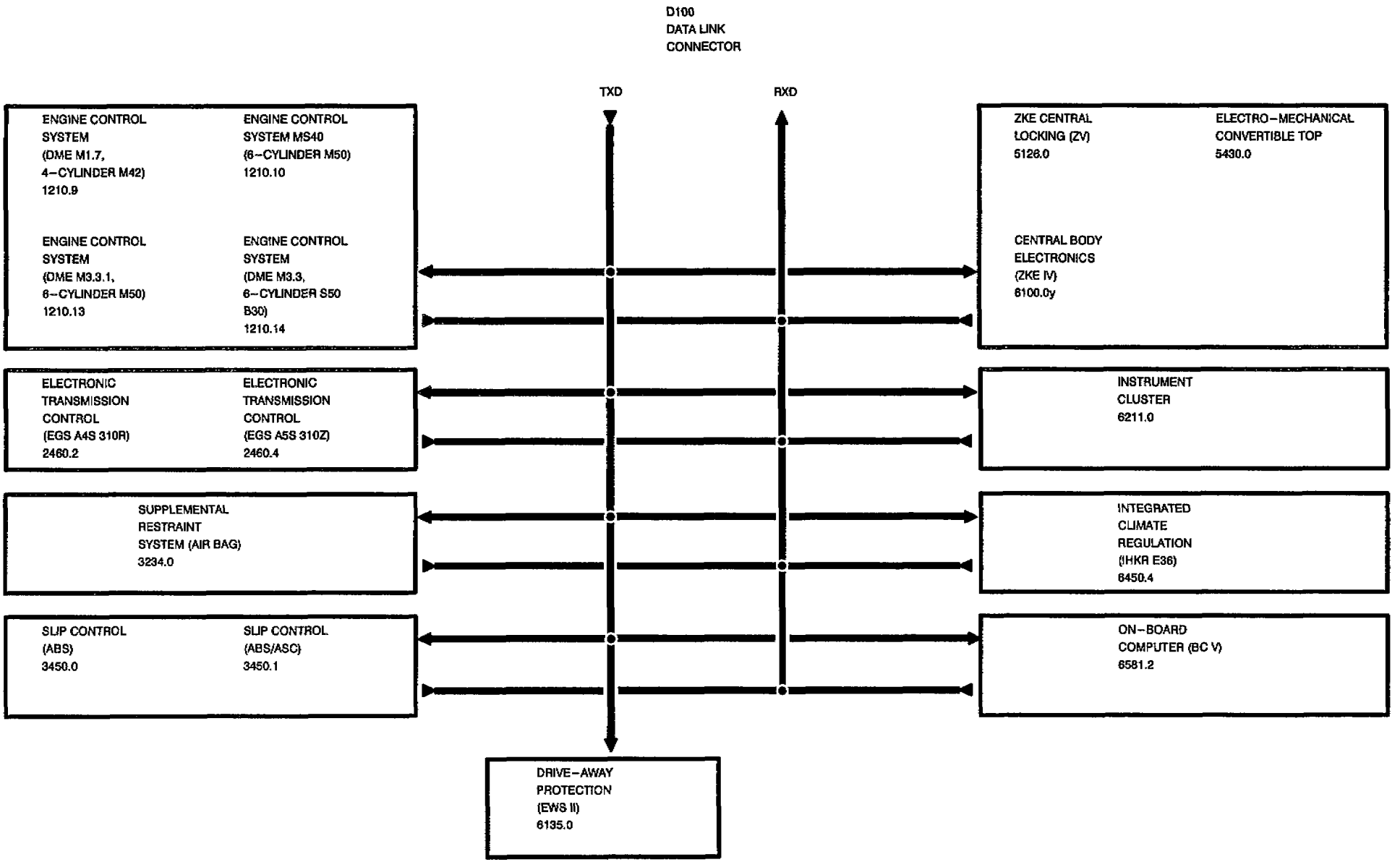


GROUND DISTRIBUTION

GROUND X13230

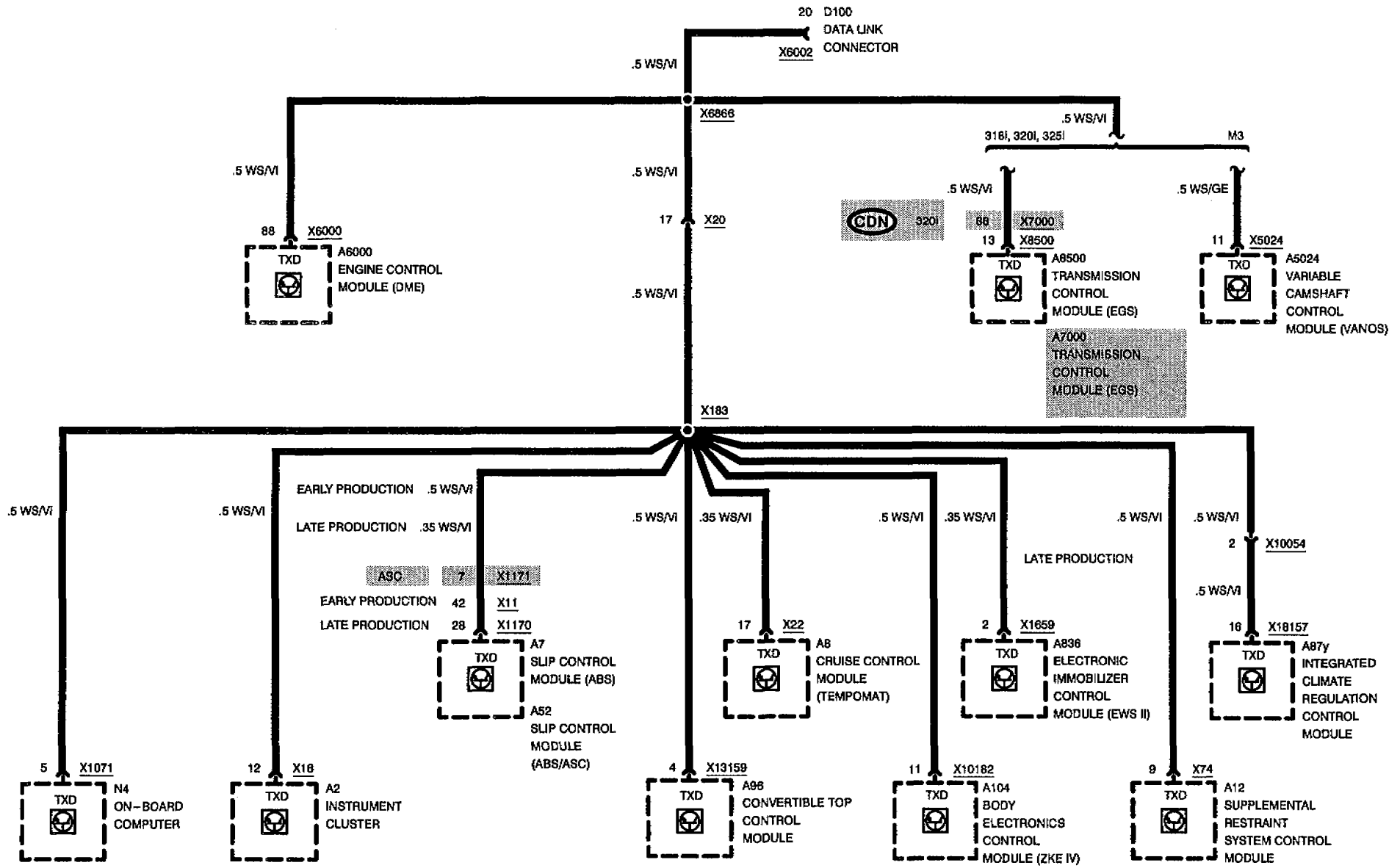


DATA LINK
BLOCK DIAGRAM



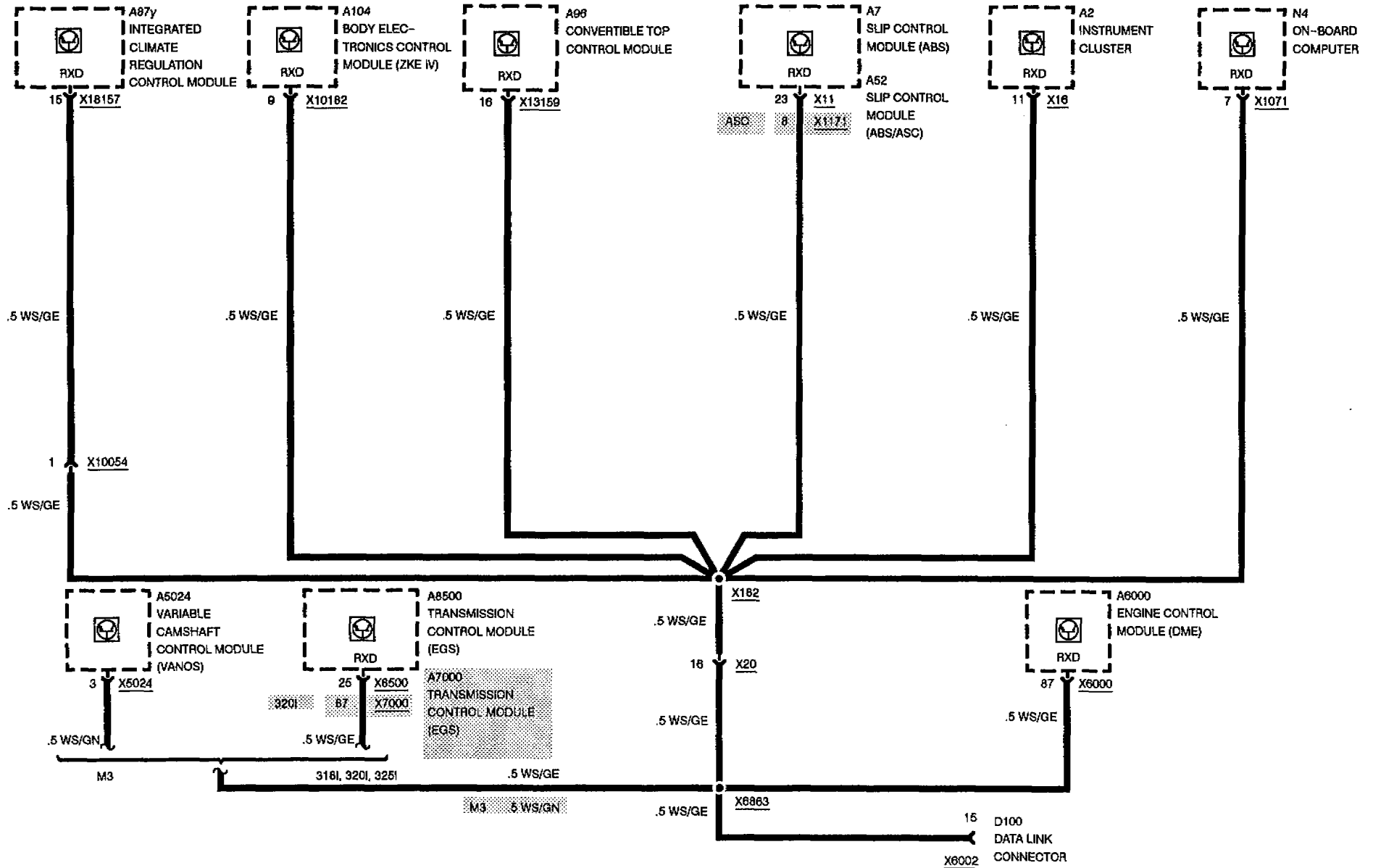
DATA LINK

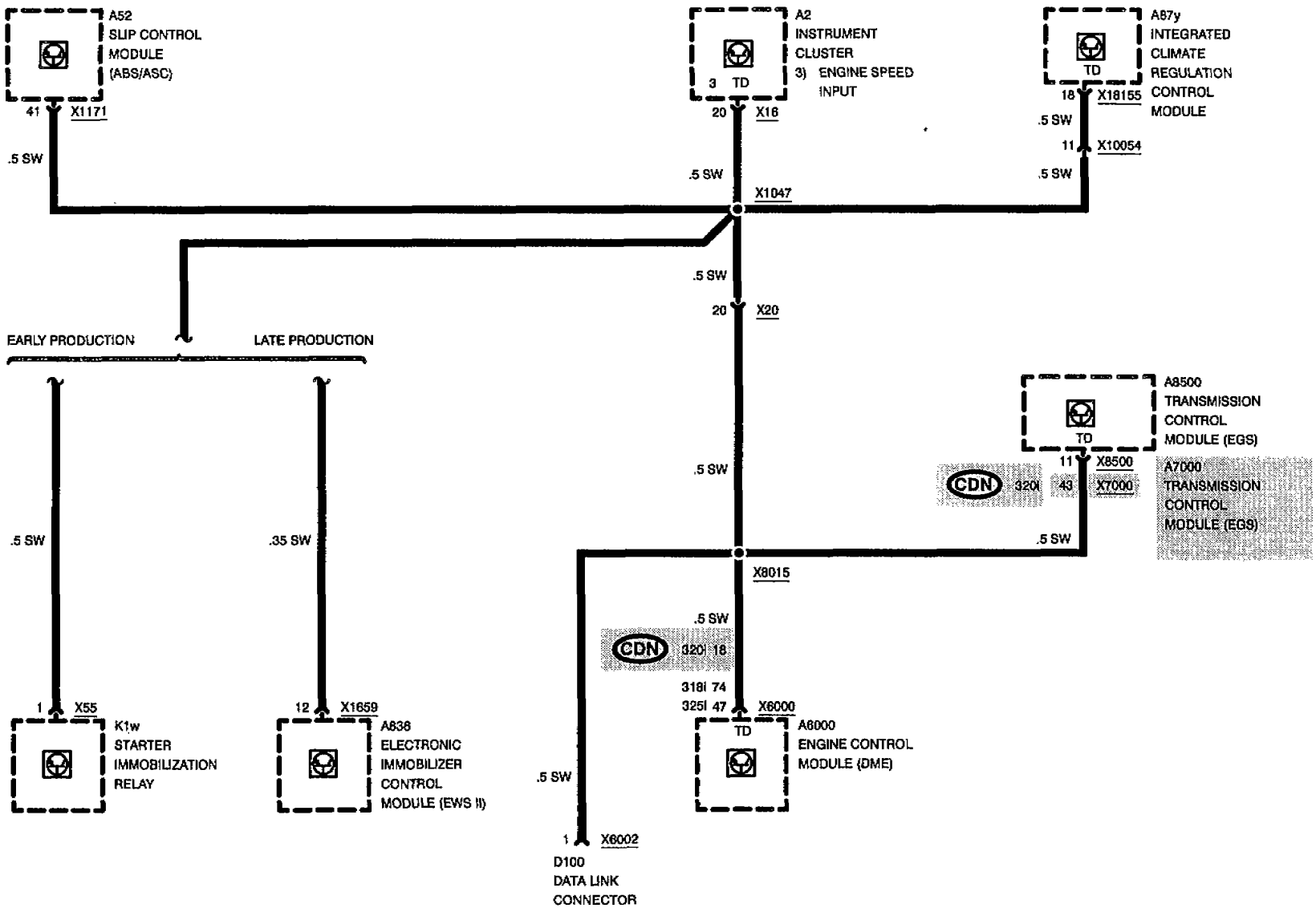
TXD, PIN 20



DATA LINK

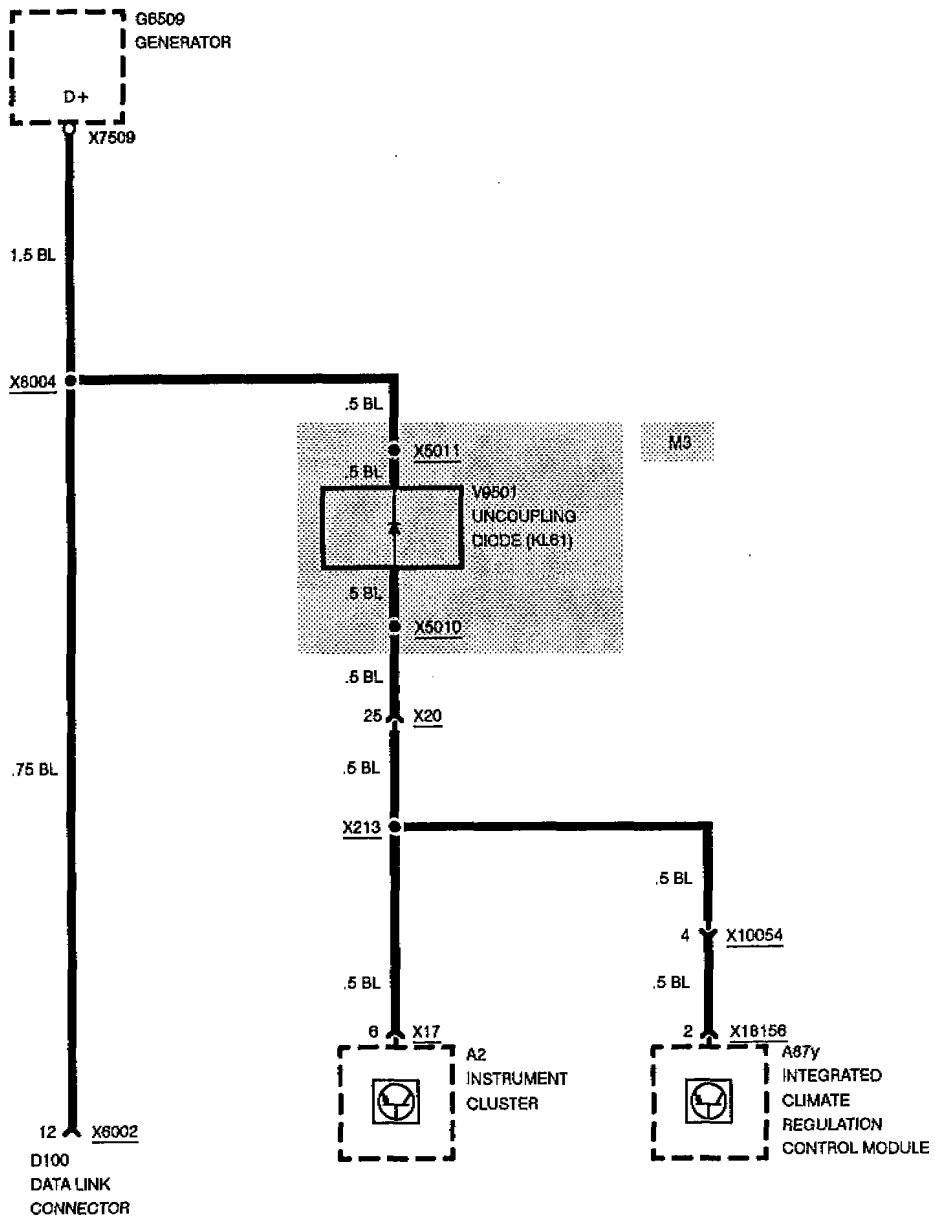
RXD, PIN 15

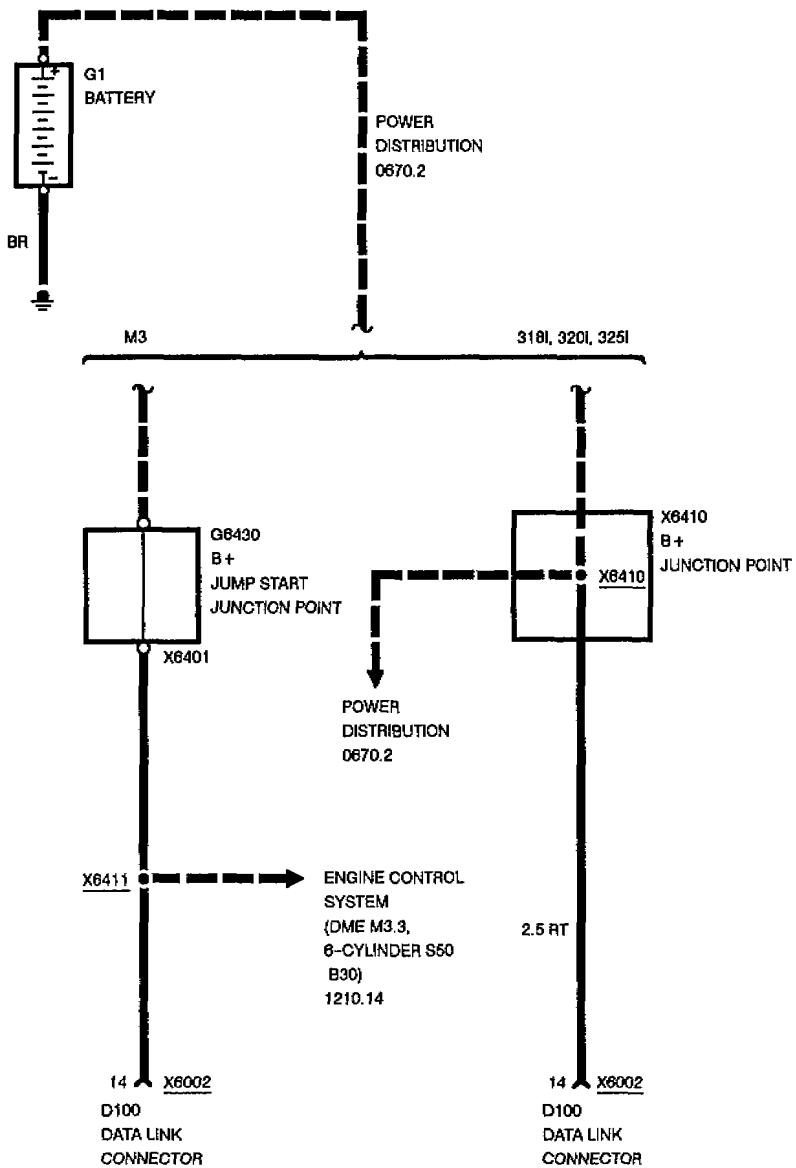



A52
SLIP CONTROL
MODULE
(ABS/ASC)
41 X1171
.5 SW
A2
INSTRUMENT
CLUSTER
3) ENGINE SPEED
INPUT
3 TD
20 X16
.5 SW
X1047
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL
MODULE
TD
18 X18155
.5 SW
11 X10054
.5 SW
.5 SW
20 X20
EARLY PRODUCTION
LATE PRODUCTION
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
TD
11 X8500
CDN 320i 43 X7000
A7000
TRANSMISSION
CONTROL
MODULE (EG9)
.5 SW
.5 SW
.35 SW
X8015
.5 SW
CDN 320i 18
318i 74
325i 47 X6000
1 X55
K1w
STARTER
IMMOBILIZATION
RELAY
12 X1659
A836
ELECTRONIC
IMMOBILIZER
CONTROL
MODULE (EWS II)
TD
A6000
ENGINE CONTROL
MODULE (DME)
.5 SW
1 X6002
D100
DATA LINK
CONNECTOR

DATA LINK

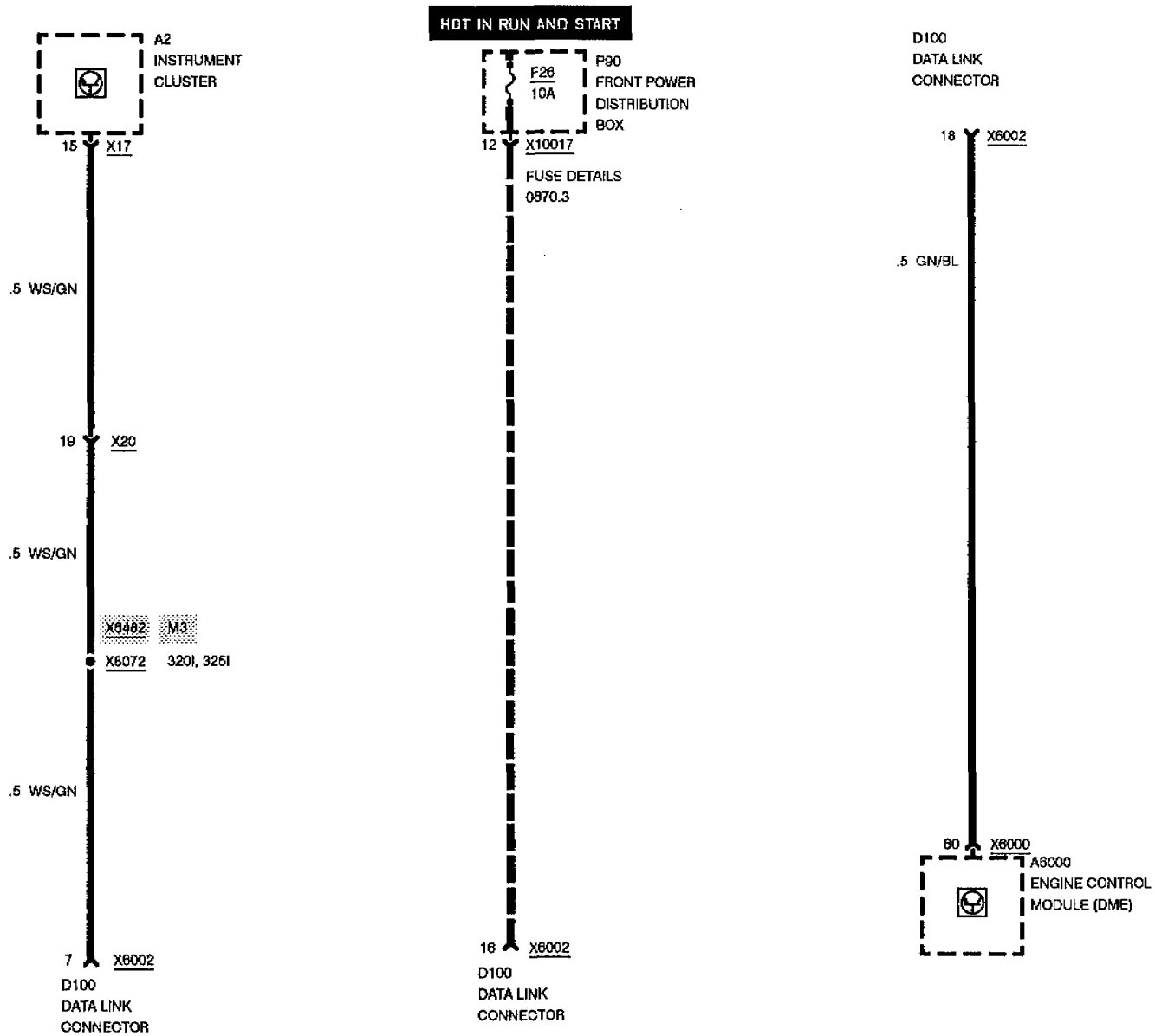
DATA LINK CONNECTOR PINS 12 AND 14





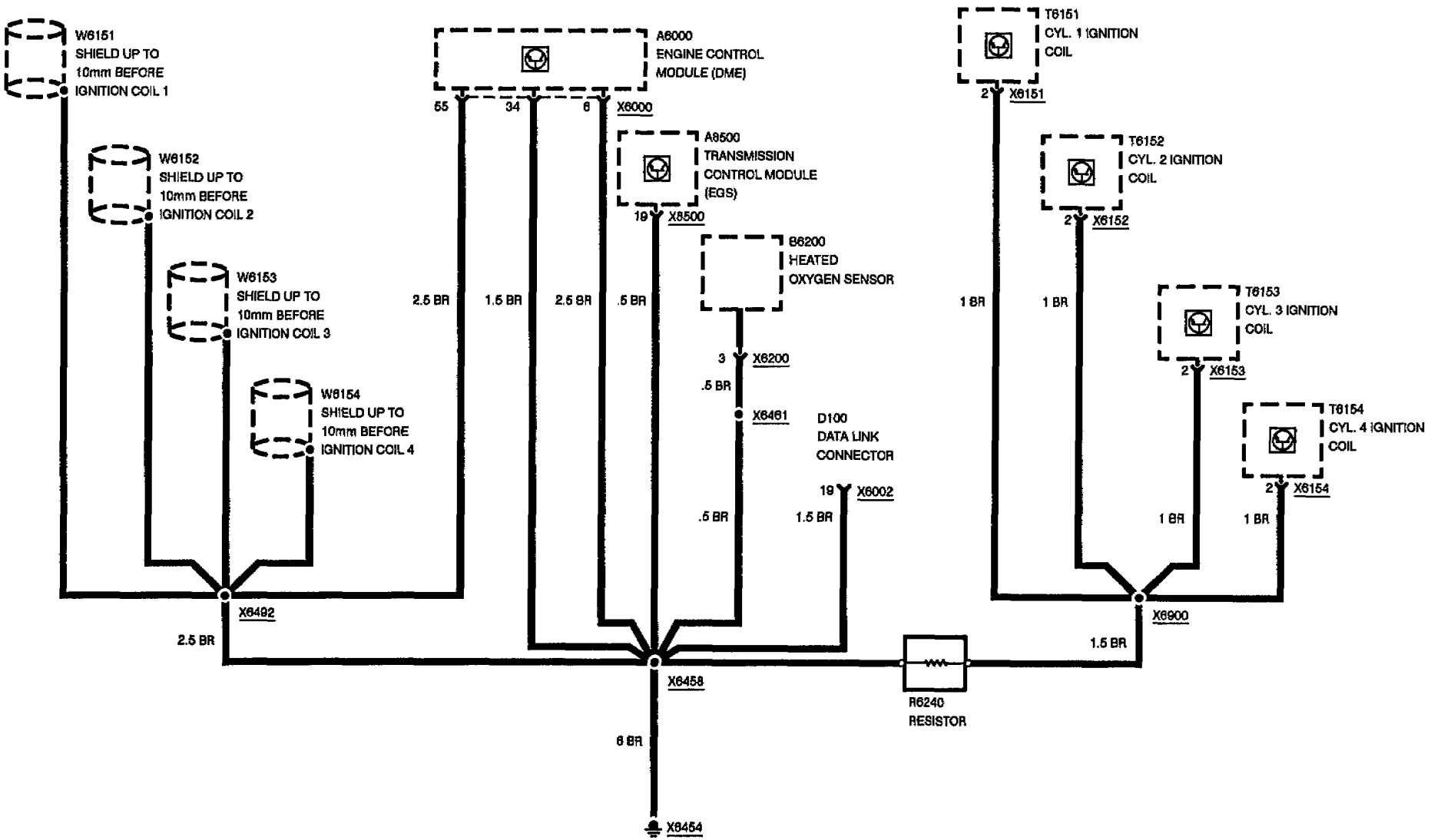
DATA LINK

DATA LINK CONNECTOR PINS 7, 16, AND 18



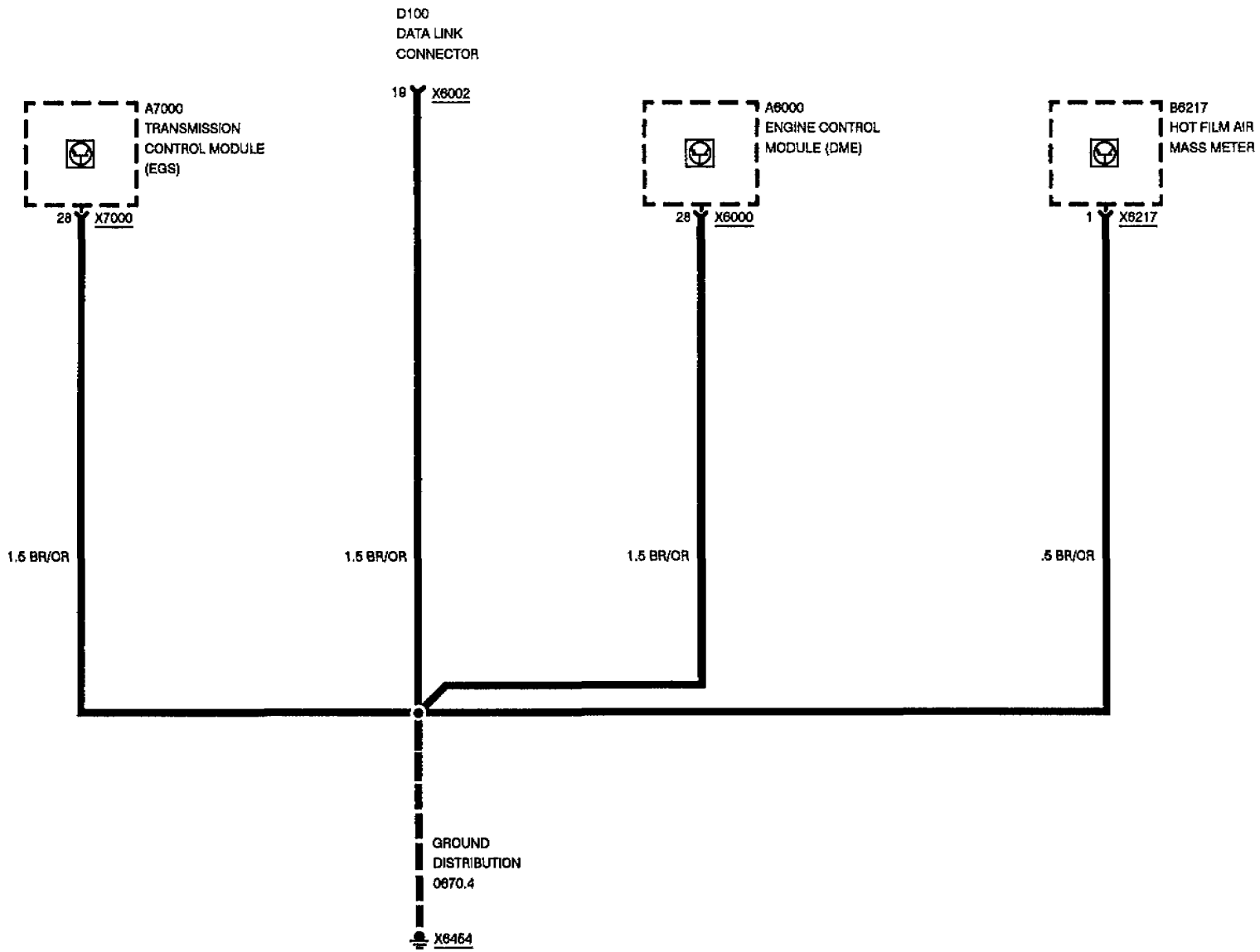
DATA LINK

DATA LINK CONNECTOR PIN 19



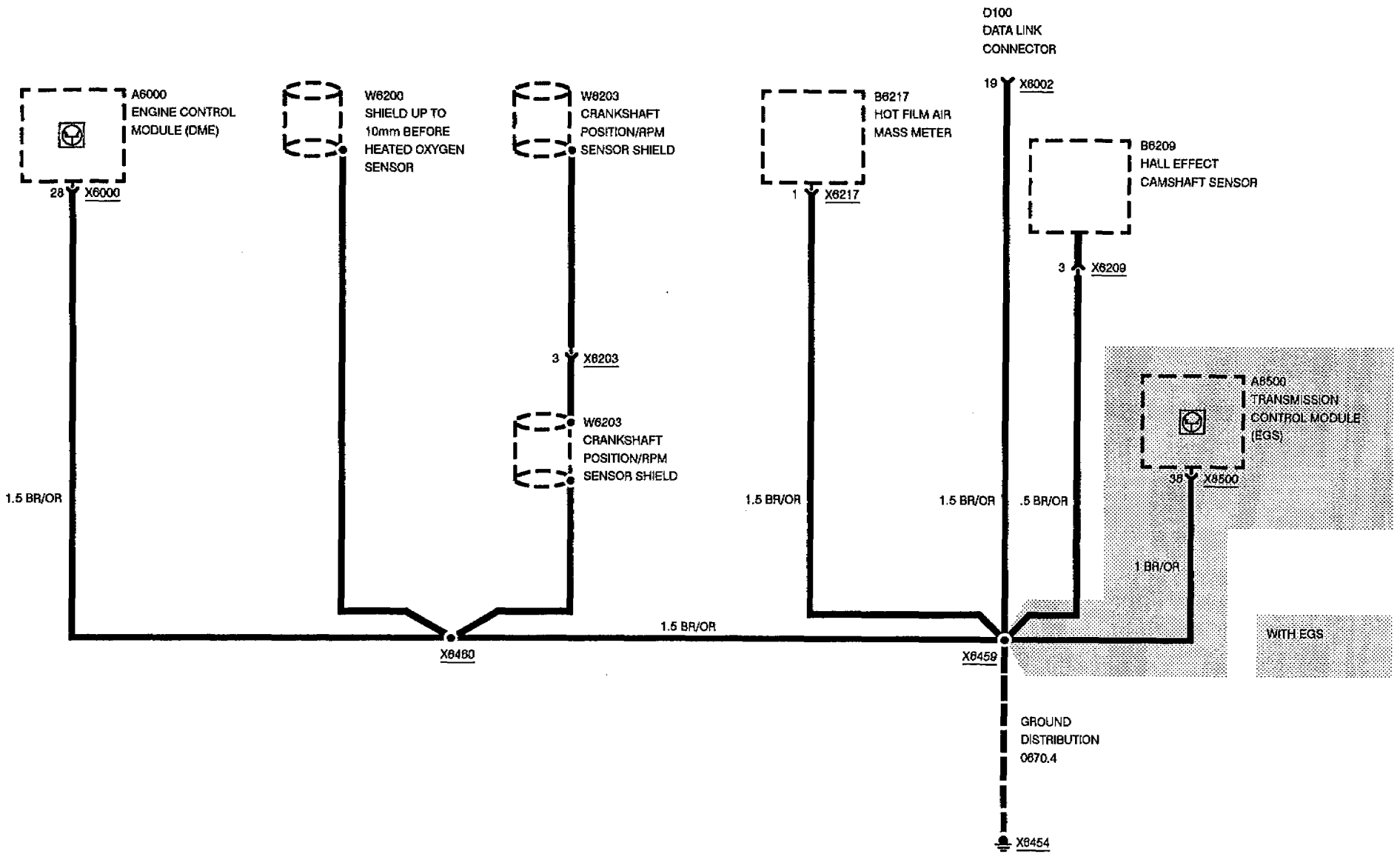
DATA LINK

DATA LINK CONNECTOR PIN 19



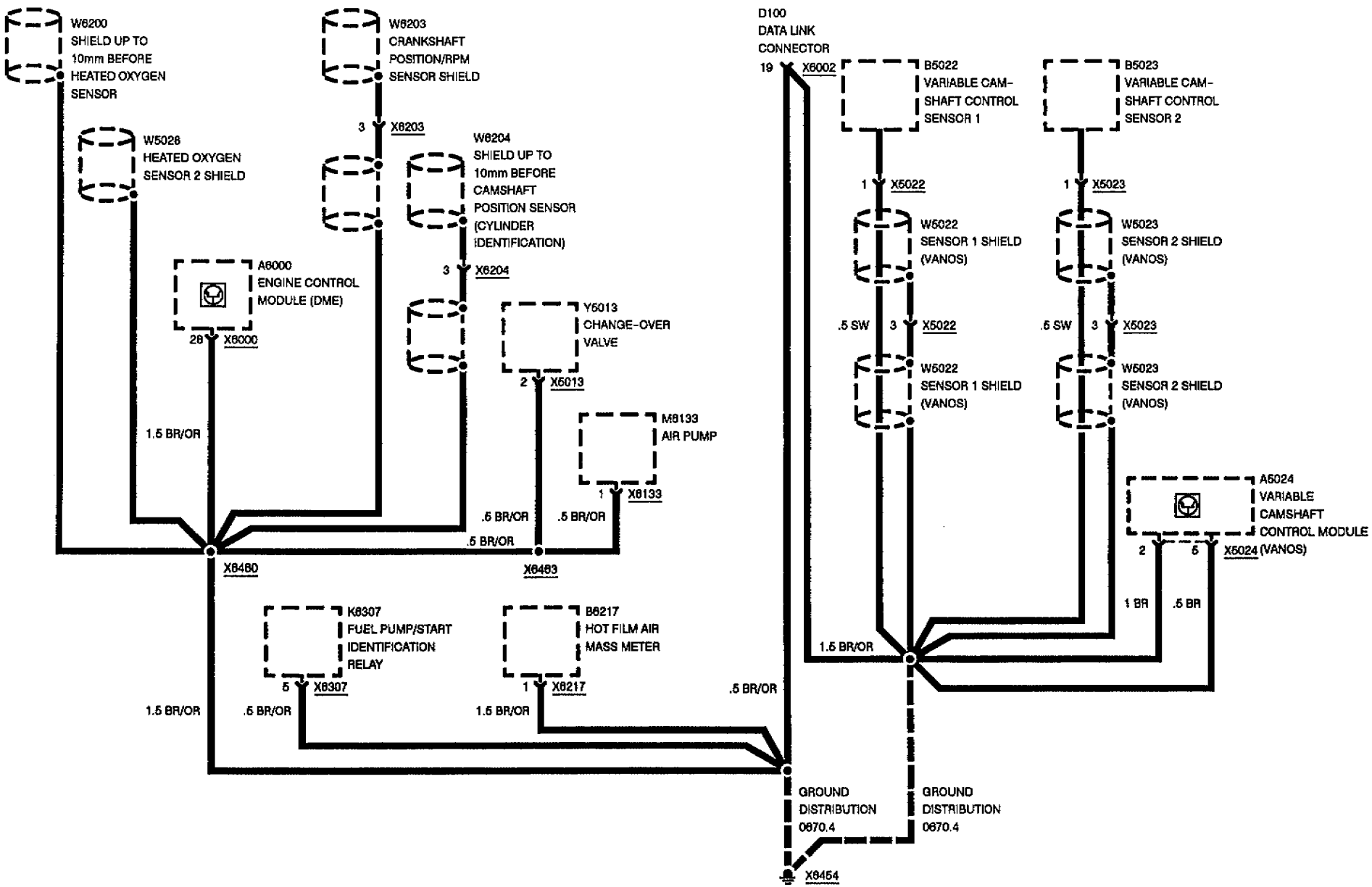
DATA LINK

DATA LINK CONNECTOR PIN 19

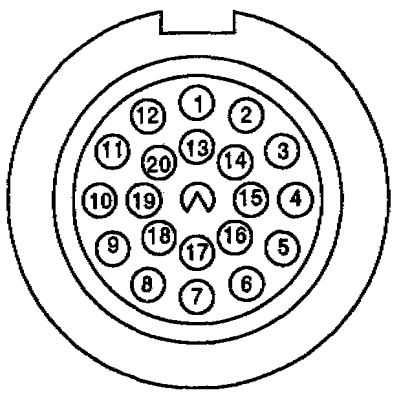


DATA LINK

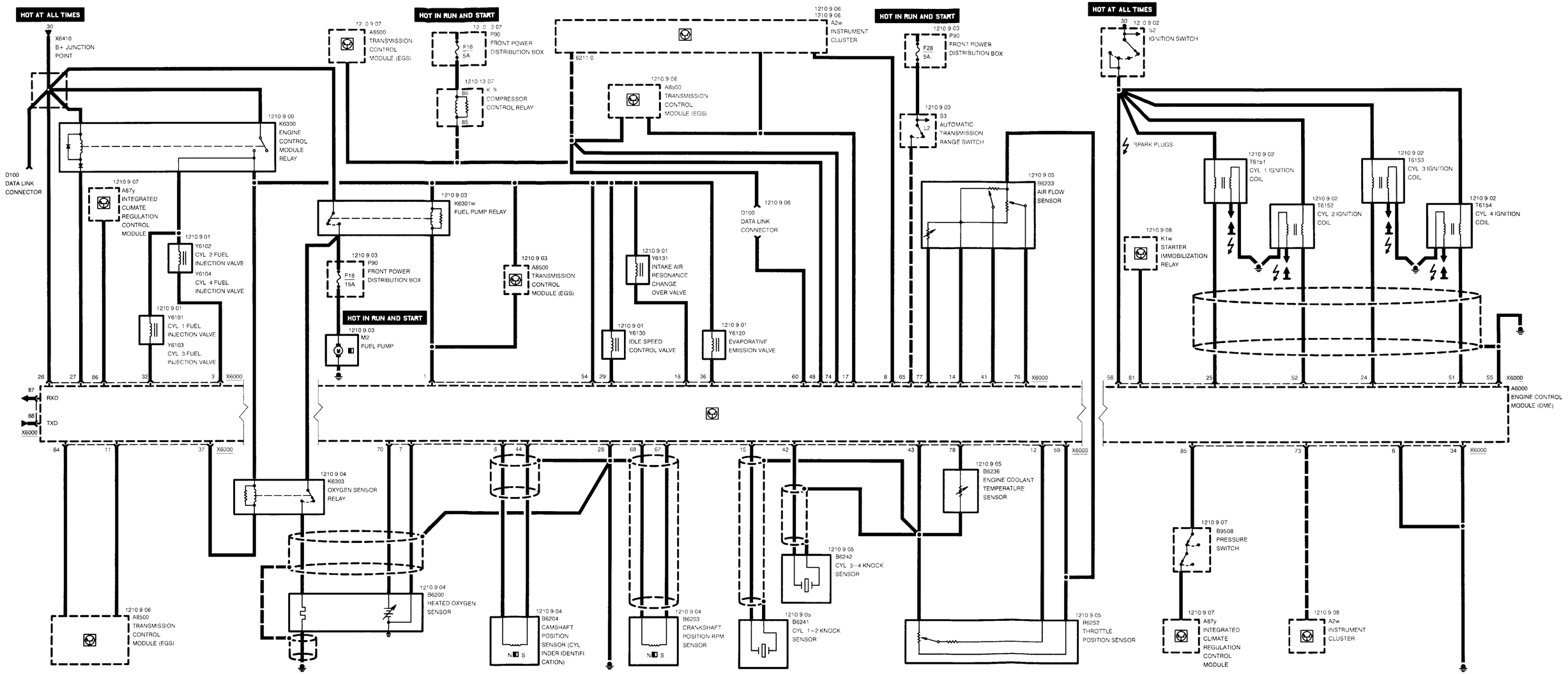
DATA LINK CONNECTOR PIN 19



DATA LINK CONNECTOR (X6002)



PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	–	MOTOR	SW
2	–	NOT OCCUPIED	
3	–	NOT OCCUPIED	
4	–	NOT OCCUPIED	
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	NOT OCCUPIED	
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	–	NOT OCCUPIED	
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

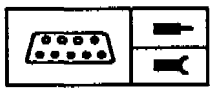

HOT AT ALL TIMES
30
X6410
B+ JUNCTION POINT
D100
DATA LINK CONNECTOR
1210 9 00
K6300
ENGINE CONTROL MODULE RELAY
1210 9 07
A87y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
1210 9 01
Y6102
CYL 2 FUEL INJECTION VALVE
Y6104
CYL 4 FUEL INJECTION VALVE
Y6101
CYL 1 FUEL INJECTION VALVE
Y6103
CYL 3 FUEL INJECTION VALVE
26 27 86 32 3 X6000
87
RXD
88
TXD
X6000
64 11 37 X6000
1210 9 06
A8500
TRANSMISSION CONTROL MODULE (EGS)
HOT IN RUN AND START
1210 9 07
A8500
TRANSMISSION CONTROL MODULE (EGS)
1210 9 03
P90
FRONT POWER DISTRIBUTION BOX
F16
5A
1210 13 07
K 9
COMPRESSOR CONTROL RELAY
86
85
1210 9 03
K6301w
FUEL PUMP RELAY
1210 9 03
P90
FRONT POWER DISTRIBUTION BOX
F18
15A
HOT IN RUN AND START
1210 9 03
M2
FUEL PUMP
1210 9 03
A8500
TRANSMISSION CONTROL MODULE (EGS)
1210 9 04
K6303
OXYGEN SENSOR RELAY
1210 9 04
B6200
HEATED OXYGEN SENSOR
1 54 29 18 36 60 48 74 17 8 65 77 14 41 76 X6000
1210 9 06
1210 9 06
A2w
INSTRUMENT CLUSTER
6211 0
1210 9 08
A8s00
TRANSMISSION CONTROL MODULE (EGS)
1210 9 06
D100
DATA LINK CONNECTOR
1210 9 01
Y6131
INTAKE AIR RESONANCE CHANGE OVER VALVE
1210 9 01
Y6130
IDLE SPEED CONTROL VALVE
1210 9 01
Y6120
EVAPORATIVF EMISSION VALVE
HOT IN RUN AND START
1210 9 03
P90
FRONT POWER DISTRIBUTION BOX
F28
5A
1210 9 03
S3
AUTOMATIC TRANSMISSION RANGE SWITCH
1210 9 05
B6233
AIR FLOW SENSOR
6 44 28 68 67 15 42 43 78 12 59 X6000
1210 9 04
B6204
CAMSHAFT POSITION SENSOR (CYL INDER IDENTIFI CATION)
N S
1210 9 04
B6203
CRANKSHAFT POSITION RPM SENSOR
N S
1210 9 05
B6242
CYL 3–4 KNOCK SENSOR
1210 9 05
B6241
CYL 1–2 KNOCK SENSOR
1210 9 05
B6236
ENGINE COOLANT TEMPERATURE SENSOR
1210 9 05
B6252
THROTTLE POSITION SENSOR
HOT AT ALL TIMES
30
1210 9 02
S2
IGNITION SWITCH
SPARK PLUGS
1210 9 02
T6151
CYL 1 IGNITION COIL
1210 9 02
T6152
CYL 2 IGNITION COIL
1210 9 02
T6153
CYL 3 IGNITION COIL
1210 9 02
T6154
CYL 4 IGNITION COIL
1210 9 08
K1w
STARTER IMMOBILIZATION RELAY
56 81 25 52 24 51 55 X6000
A6000
ENGINE CONTROL MODULE (DME)
85 73 6 34 X6000
1210 9 07
B9508
PRESSURE SWITCH
1210 9 07
A87y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
1210 9 08
A2w
INSTRUMENT CLUSTER

Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2		Not used	
3	A	Cyl. 2 and cyl. 4 fuel injection valve control	Cyl. 2 and cyl. 4 fuel injection valves
4		Not used	
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	DKV potentiomenter signal	Transmission control module (EGS)
12	E	Throttle position	Throttle position sensor
13		Not used	
14	E	Volume air flow sensor	Volume air flow sensor
15	E	Cyl. 1-2 knock sensor	Cyl. 1-2 knock sensor
16	E	Camshaft position sensor (cylinder identification)	Camshaft position sensor (cylinder identification)
17	A	Ti - measurement signal (fuel consumption)	Instrument cluster
18	A	Intake air resonance changeover valve control	Intake air resonance changeover valve
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

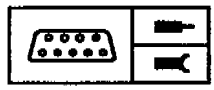
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30		Not used	
31		Not used	
32	A	Cyl. 1 and cyl. 3 fuel injection valve control	Cyl. 1 and cyl. 3 fuel injection valves
33		Not used	
34	M	Ground, remaning output stages (except for ingnition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
38		Not used	
39		Not used	
40		Not used	
41	E	Volume air flow sensor	Volume air flow sensor
42	E	Cyl. 3-4 knock sensor	Cyl. 3-4 knock sensor
43	M	Ground for sensors	Engine coolant temperature sensor, cyl. 1-2 knock sensor, cyl. 3-4 knock sensor, and throttle position sensor
44	E	Camshaft position sensor (cylinder indentification)	Camshaft position sensor (cylinder indentification)
45		Not used	
46		Not used	
47		Not used	
48	A	A/C compressor cut-out	Compressor control relay, terminal 85
49		Not used	
50		Not used	
51	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
52	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57		Not used	

E = Input, A = Output, M = Ground



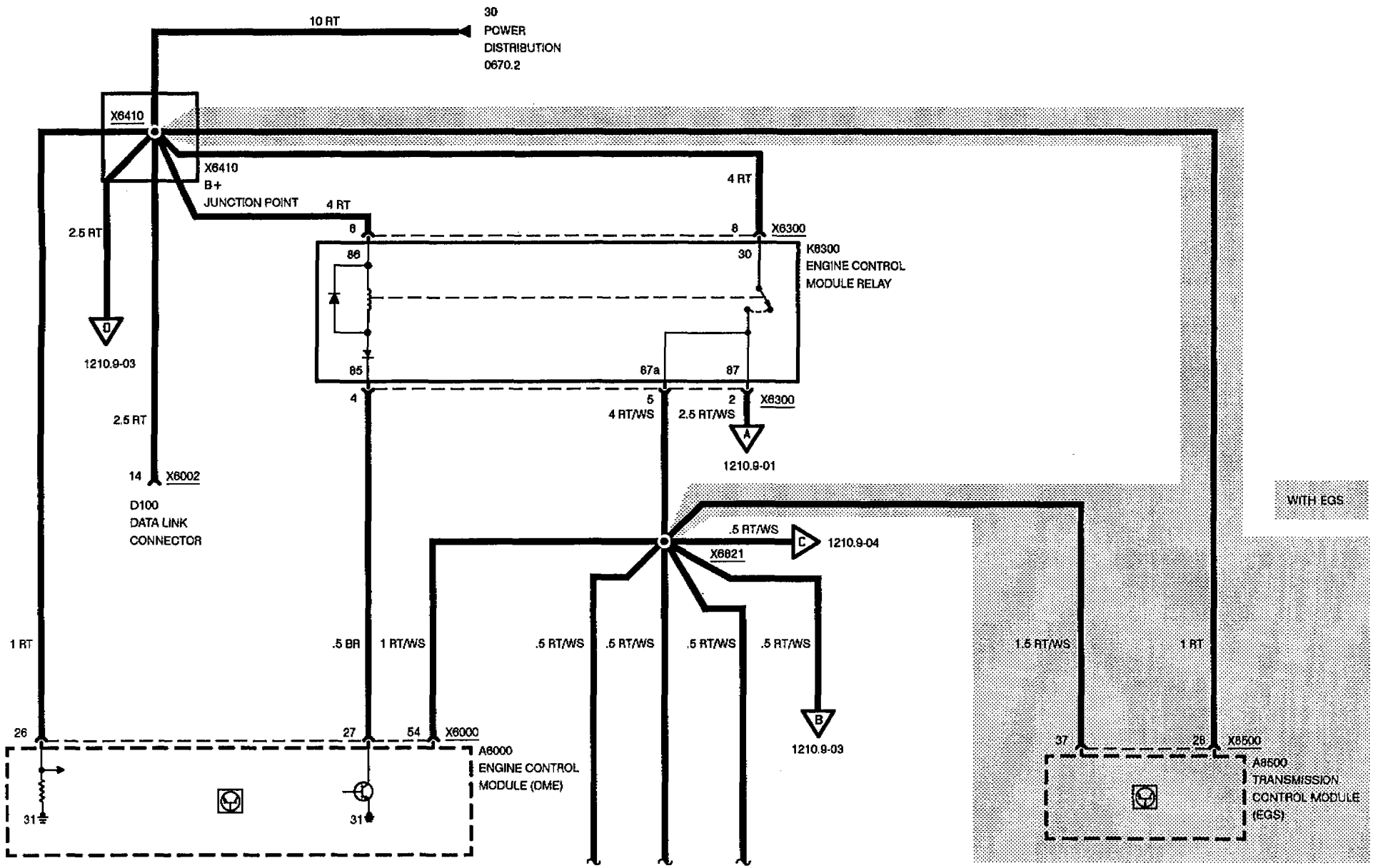
Pin Assignments

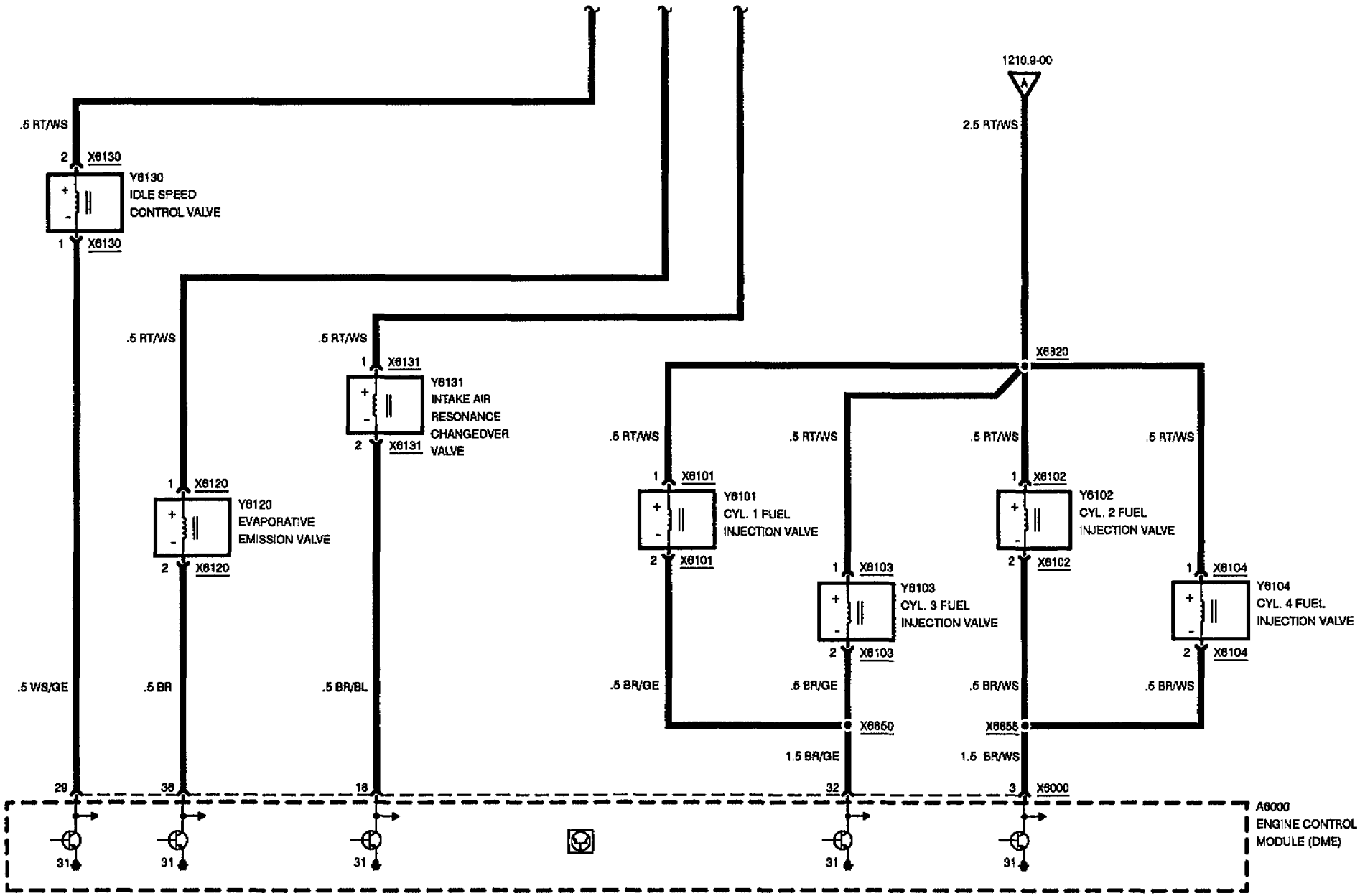
Pin	Type	Description/Function	Connection
58		Not used	
59	A	5V component supply	Throttle position sensor and volume air flow sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	Ignition timing intervention	Transmission control module (EGS)
65	E	Drive range P/N	Automatic transmission range switch
66		Not used	
67	E	Crankshaft position/RPM sensor	Crankshaft position/RPM sensor
68	E	Crankshaft position/RPM sensor	Crankshaft position/RPM sensor
69		Not used	
70	E	Oxygen sensor signal	Heated oxygen sensor
71	M	Oxygen sensor signal ground	Heated oxygen sensor
72		Not used	
73	E	Vehicle speed signal	Instrument cluster
74	A	Crankshaft RPM speed signal TD	Instrument cluster
75		Not used	
76	E	Volume air flow sensor	Volume air flow sensor
77	E	Volume air flow sensor	Volume air flow sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive-away protection signal (code)	Starter interlock module
82		Not used	
83		Not used	
84		Not used	
85	E	A/C pressure	Pressure switch
86	E	A/C switch	Integrated climate regulation control module
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

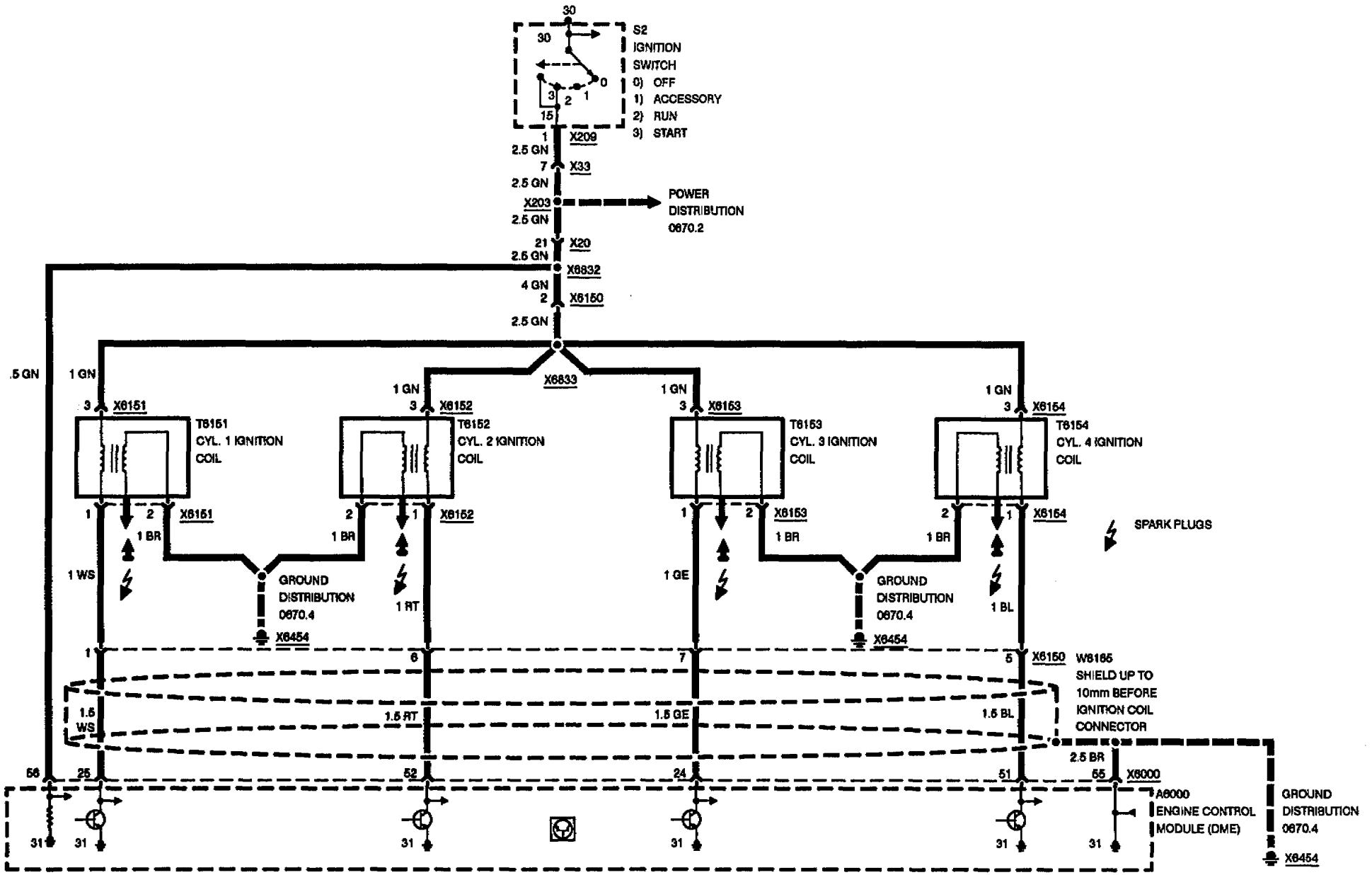
POWER, FUEL INJECTION VALVES




1210.9-00
.5 RT/WS
2
X6130
Y6130
IDLE SPEED
CONTROL VALVE
1
X6130
2.5 RT/WS
X6820
.5 RT/WS
1
X6131
Y6131
INTAKE AIR
RESONANCE
CHANGEOVER
VALVE
2
X6131
1
X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2
X6120
1
X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2
X6101
1
X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2
X6102
1
X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2
X6103
1
X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
2
X6104
.5 WS/GE
.5 BR
.5 BR/BL
.5 BR/GE
.5 BR/GE
.5 BR/WS
.5 BR/WS
X6650
X6655
1.5 BR/GE
1.5 BR/WS
29
38
18
32
3
X6000
31
31
31
31
31
A6000
ENGINE CONTROL
MODULE (DME)

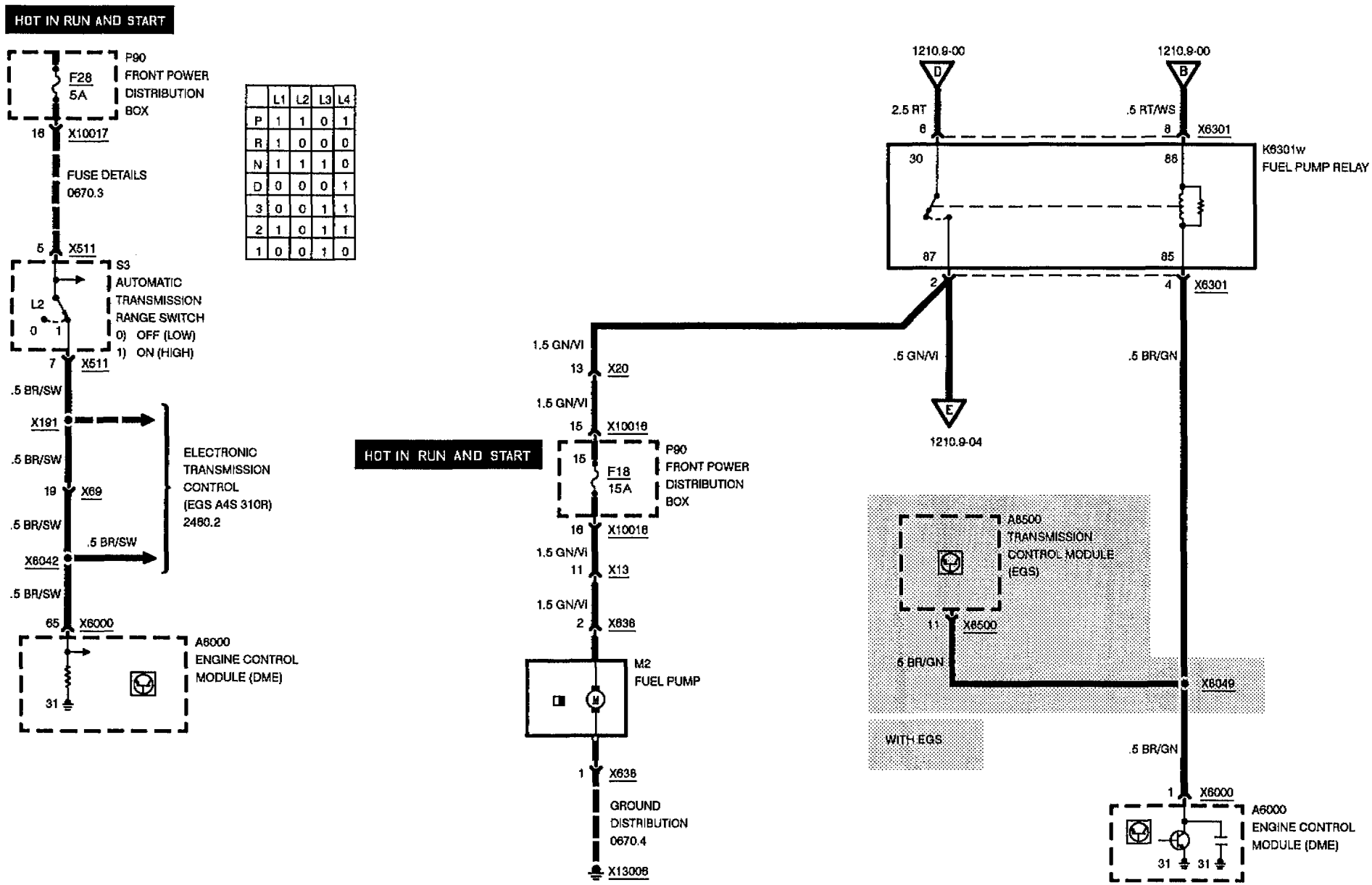
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

IGNITION COILS



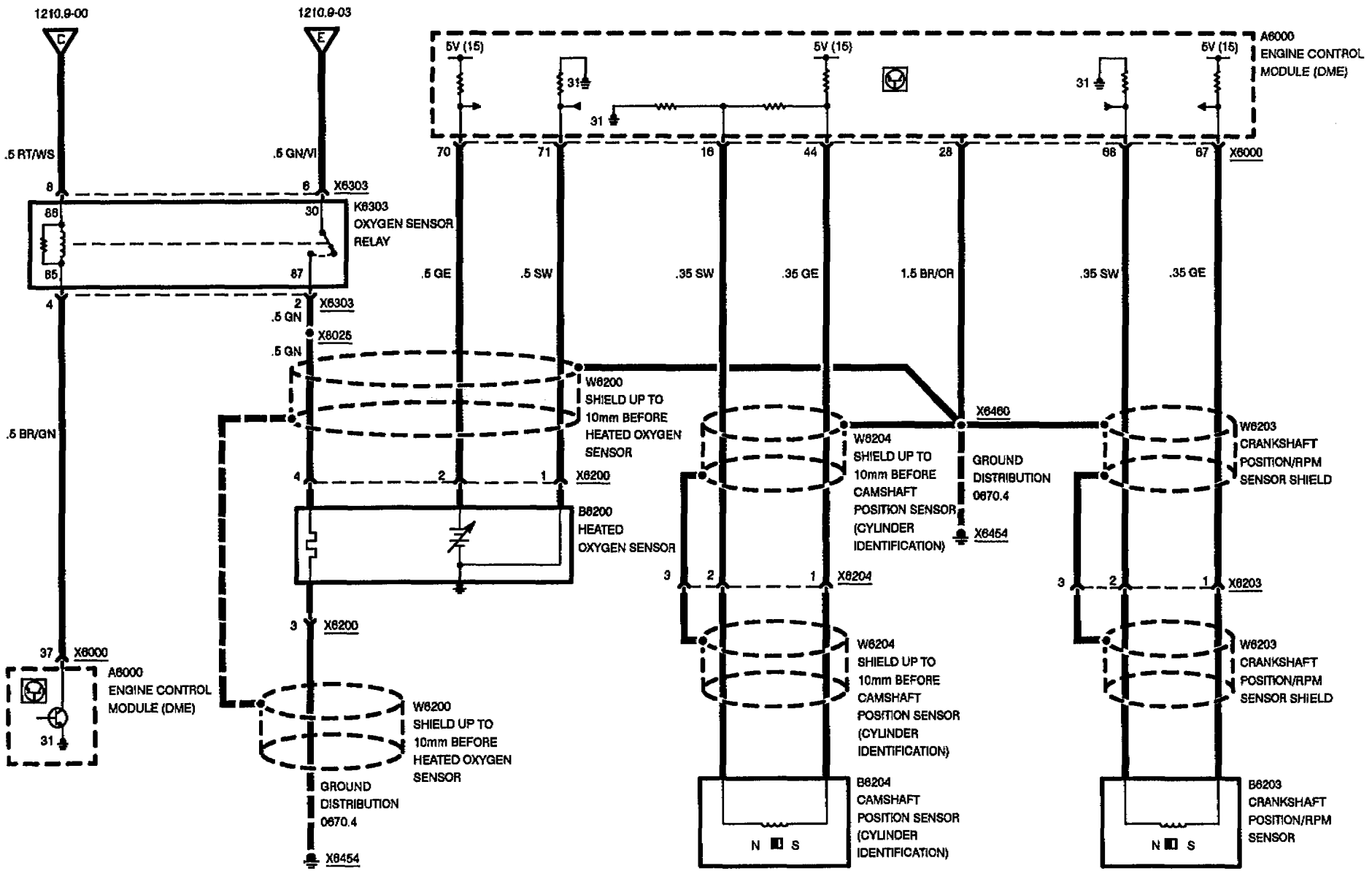
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

FUEL PUMP

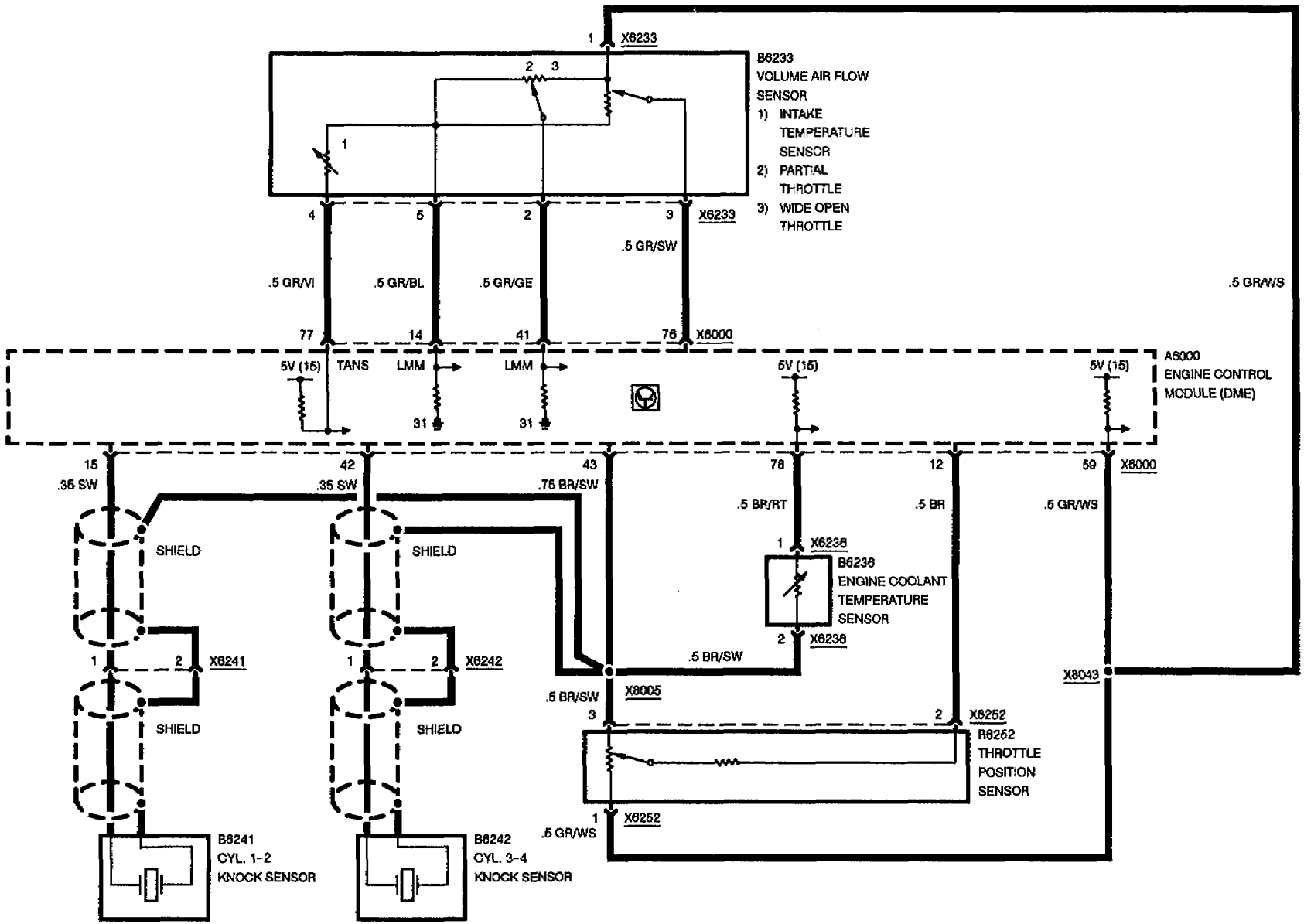


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

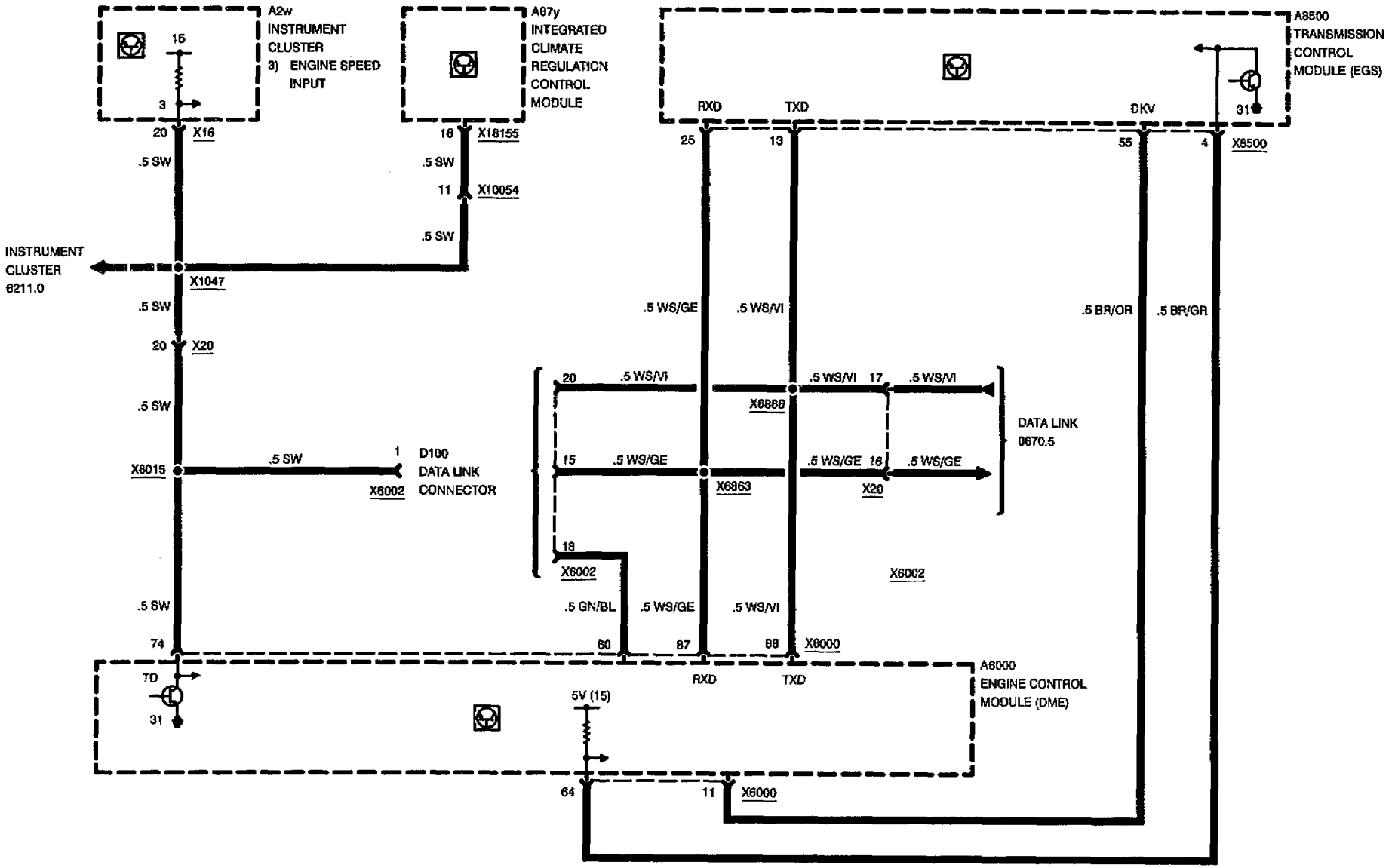


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

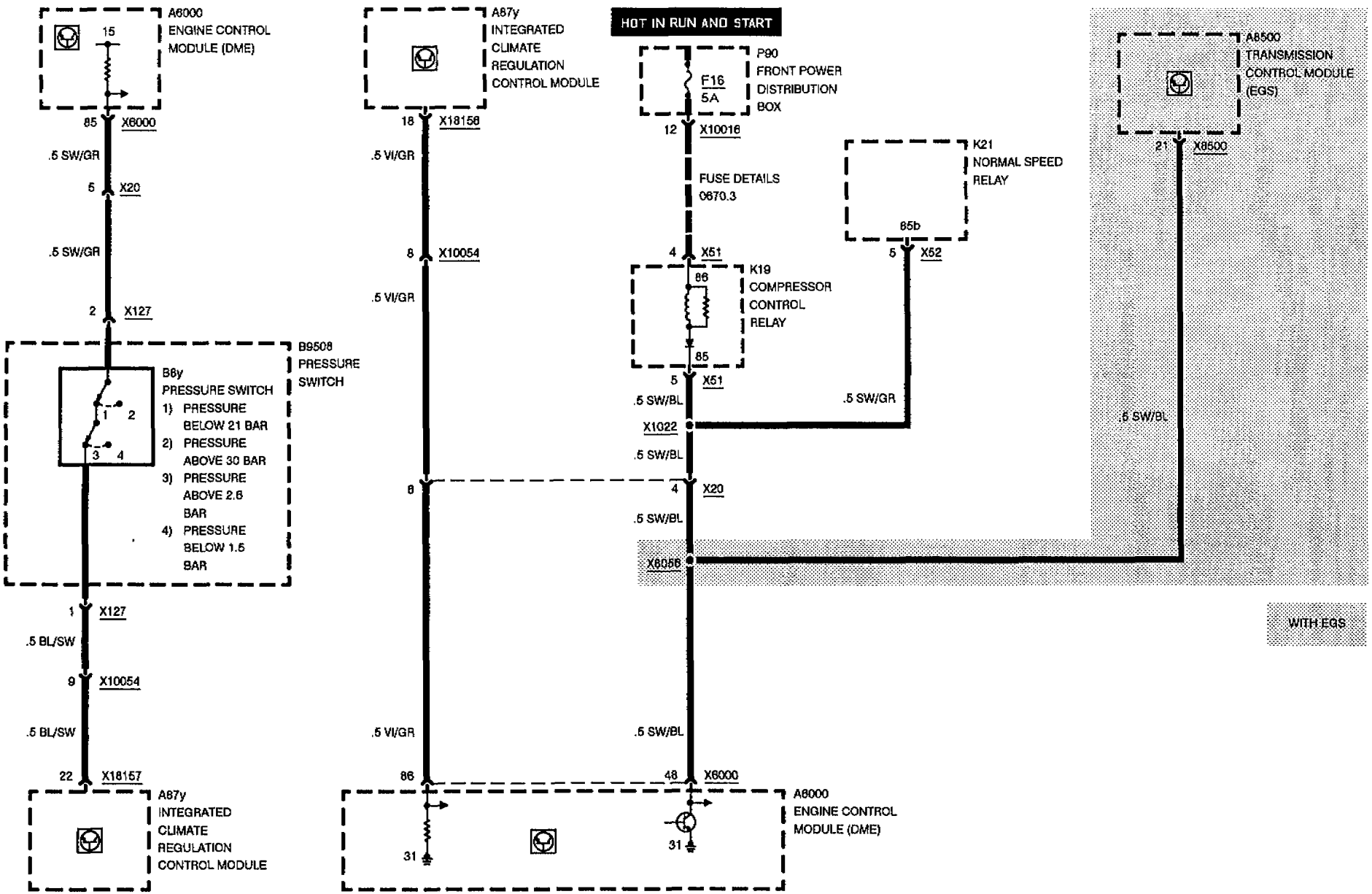


ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

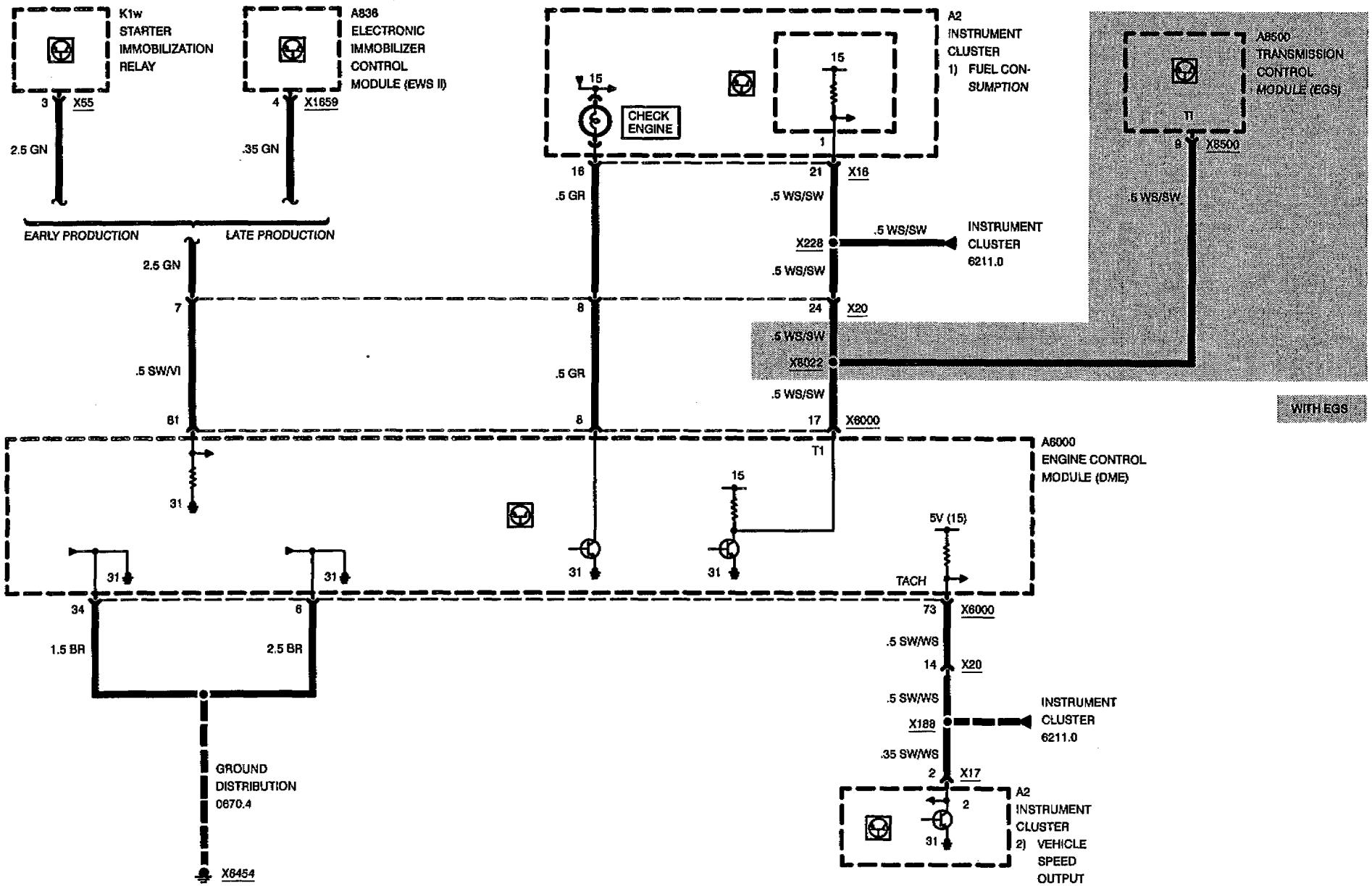
DATA LINK



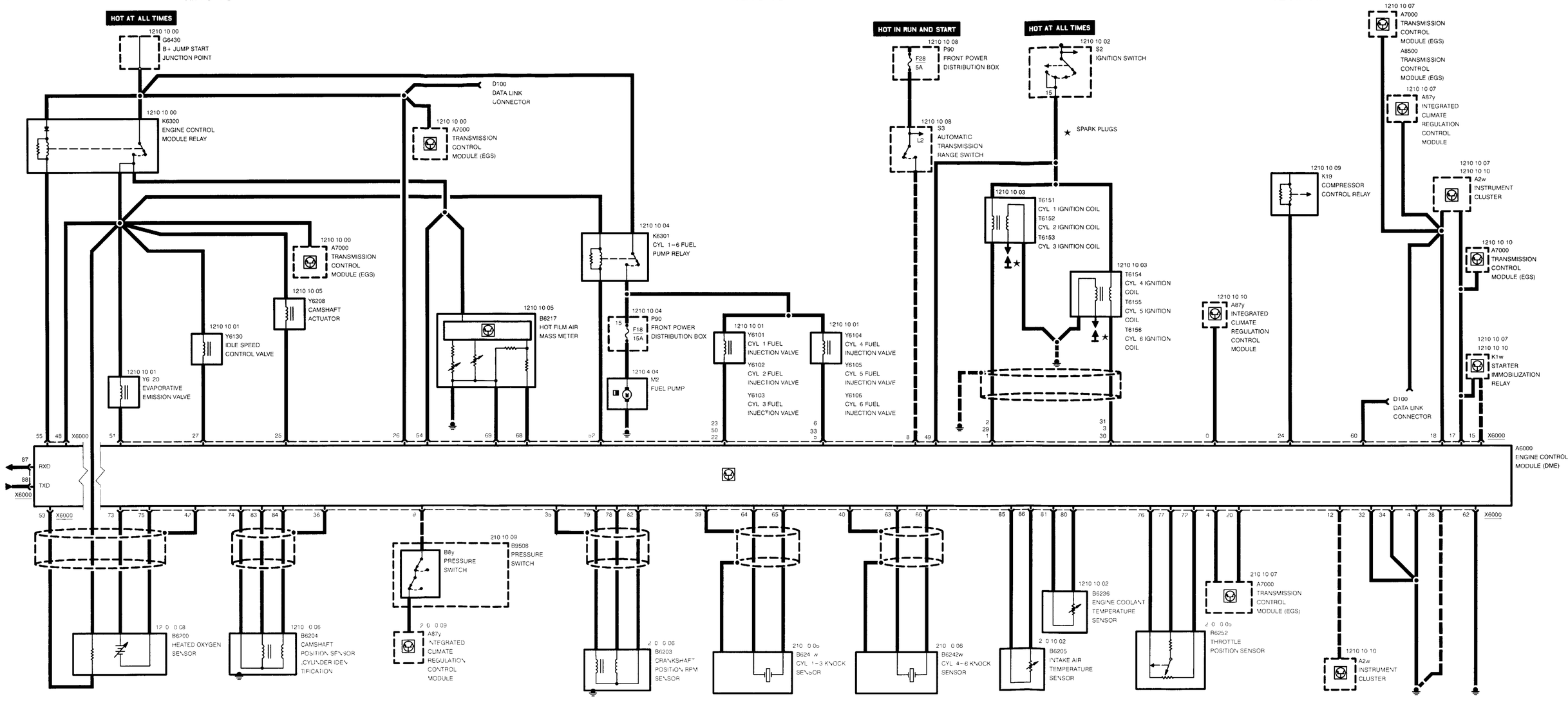
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)



09/94 1210 10 1995
09/94 1210 10 1995

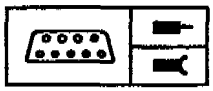


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
2	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
3	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
4	M	Ground	Ground
5	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
6	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
7		Not used	
8	E	Drive range P/N	Automatic transmission range switch
9	A	A/C signal	Pressure switch
10	A	Auxiliary ventilation signal	Integrated climate regulation control module
11		Not used	
12	E	Vehicle speed signal	Instrument cluster
13		Not used	
14	A	Throttle valve position	Transmission control module (EGS)
15	E	Drive-away protection signal	Starter interlock module
16		Not used	
17	A	TI - measurement signal (fuel consumption)	Instrument cluster
18	A	Crankshaft RPM speed signal TD	Instrument cluster
19		Not used	
20	E	Ignition timing intervention	Transmission control module (EGS)
21		Not used	
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
24	A	A/C compressor control	Compressor control relay
25	A	Camshaft control signal	Camshaft control
26	E	Battery voltage	Jump start junction point
27	A	Idle speed signal	Idle speed control valve
28	M	Ground	Ground
29	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
30	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil

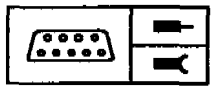
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
32	M	Ground	Ground
33	A	Cyl. 5 fuel injection valve control	Cyl.5 fuel injection valve
34	M	Ground	Ground
35	M	Shield, crankshaft position/RPM sensor	Shield
36	M	Shield, camshaft sensor	Shield
37		Not used	
38		Not used	
39	M	Shield, knock sensor (Cyl. 1-3)	Knock sensor (Cyl. 1-3)
40	M	Shield, knock sensor (Cyl. 4-6)	Knock sensor(Cyl. 4-6)
41		Not used	
42	M	Shield, oxygen sensor	Shield
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48	E	Voltage supply	Engine control module relay
49	E	Ignition signal	Ignition switch
50	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
51	A	Evaporative emission valve control	Evaporative emission valve
52	A	Fuel pump signal	Fuel pump relay
53	M	Ground, oxygen sensor	Oxygen sensor
54	E	Voltage supply	Engine control module relay
55	A	DME-relay signal	Engine control module relay
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	
62	M	Ground	Ground

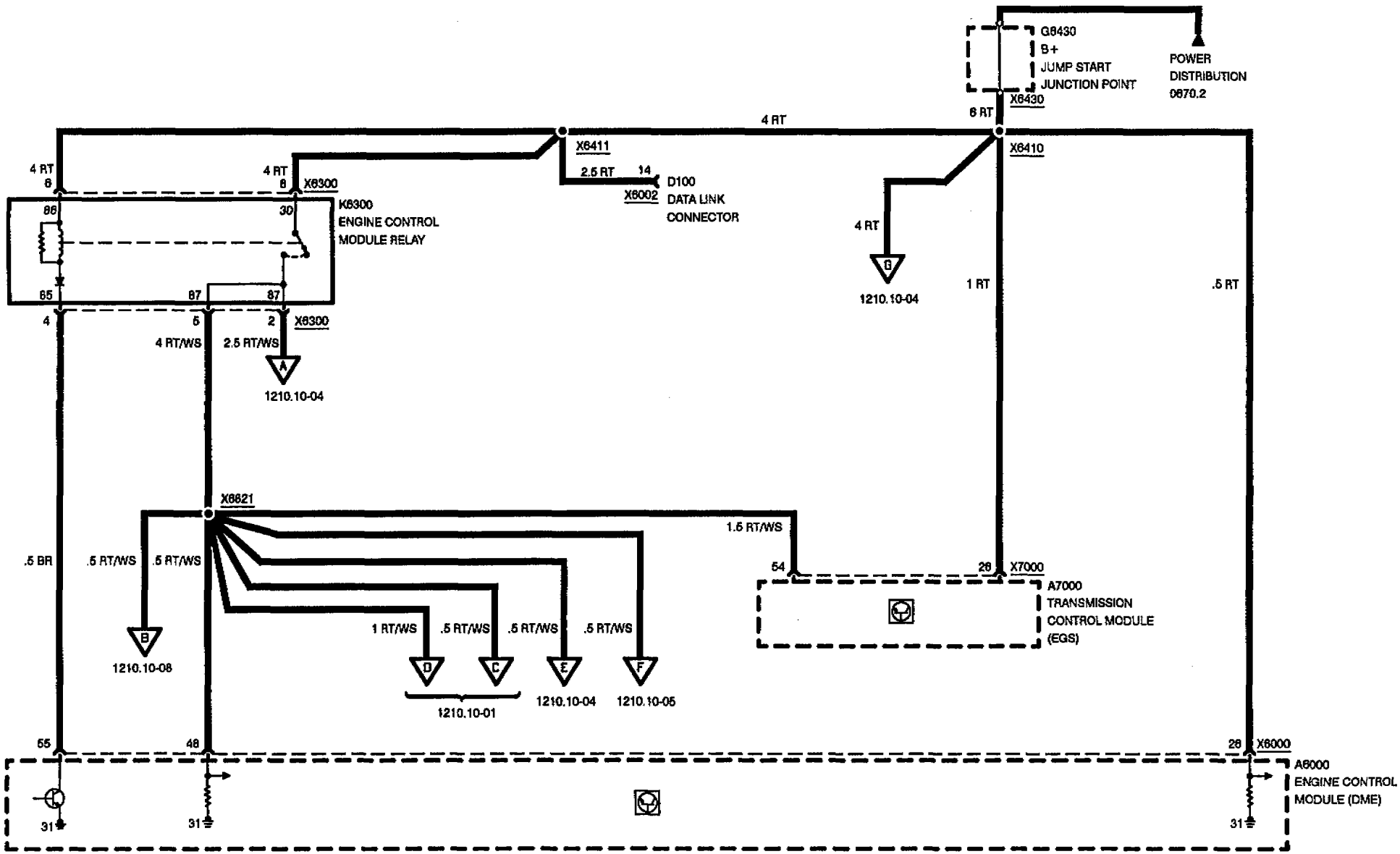
E = Input, A = Output, M = Ground



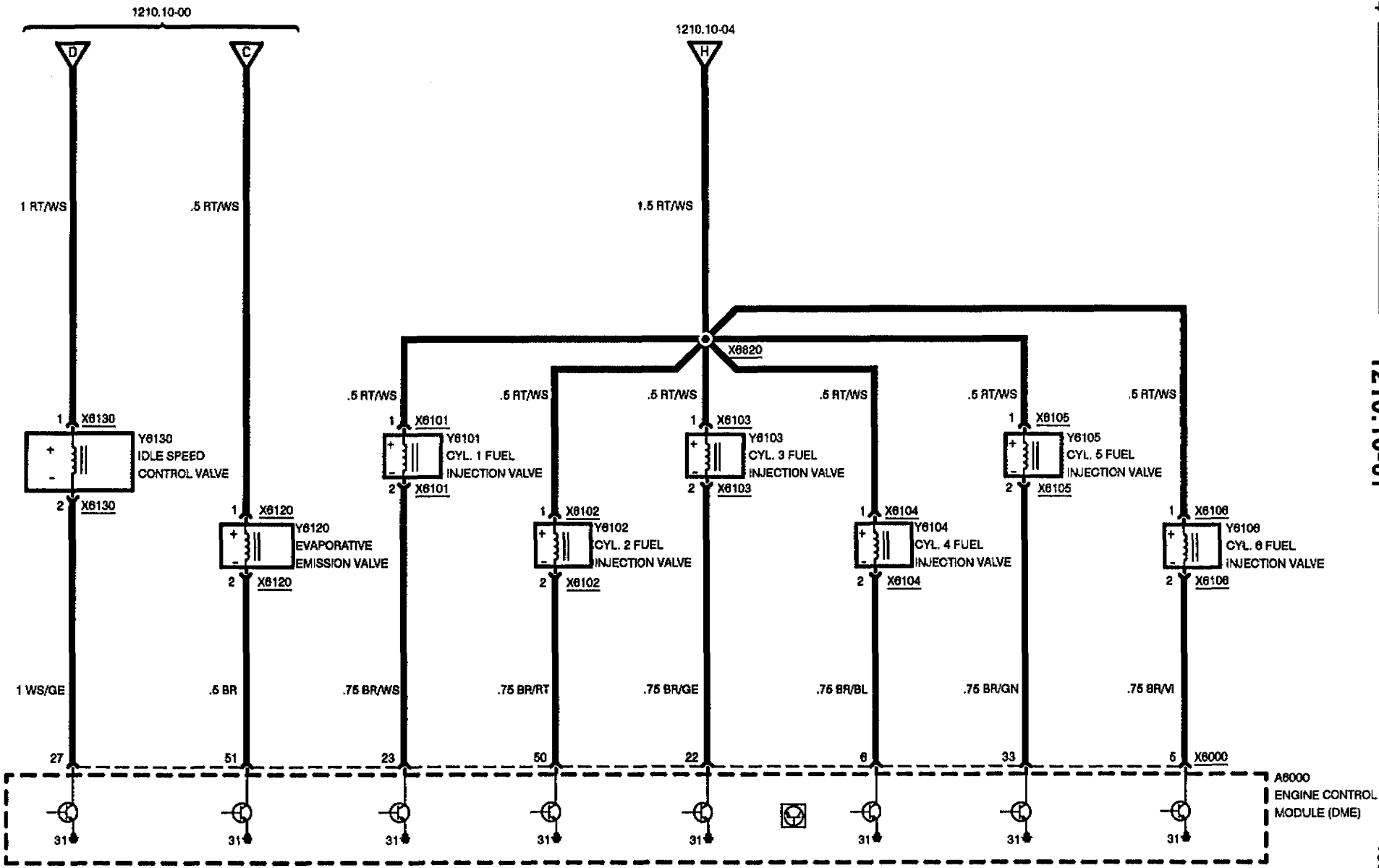
Pin Assignments

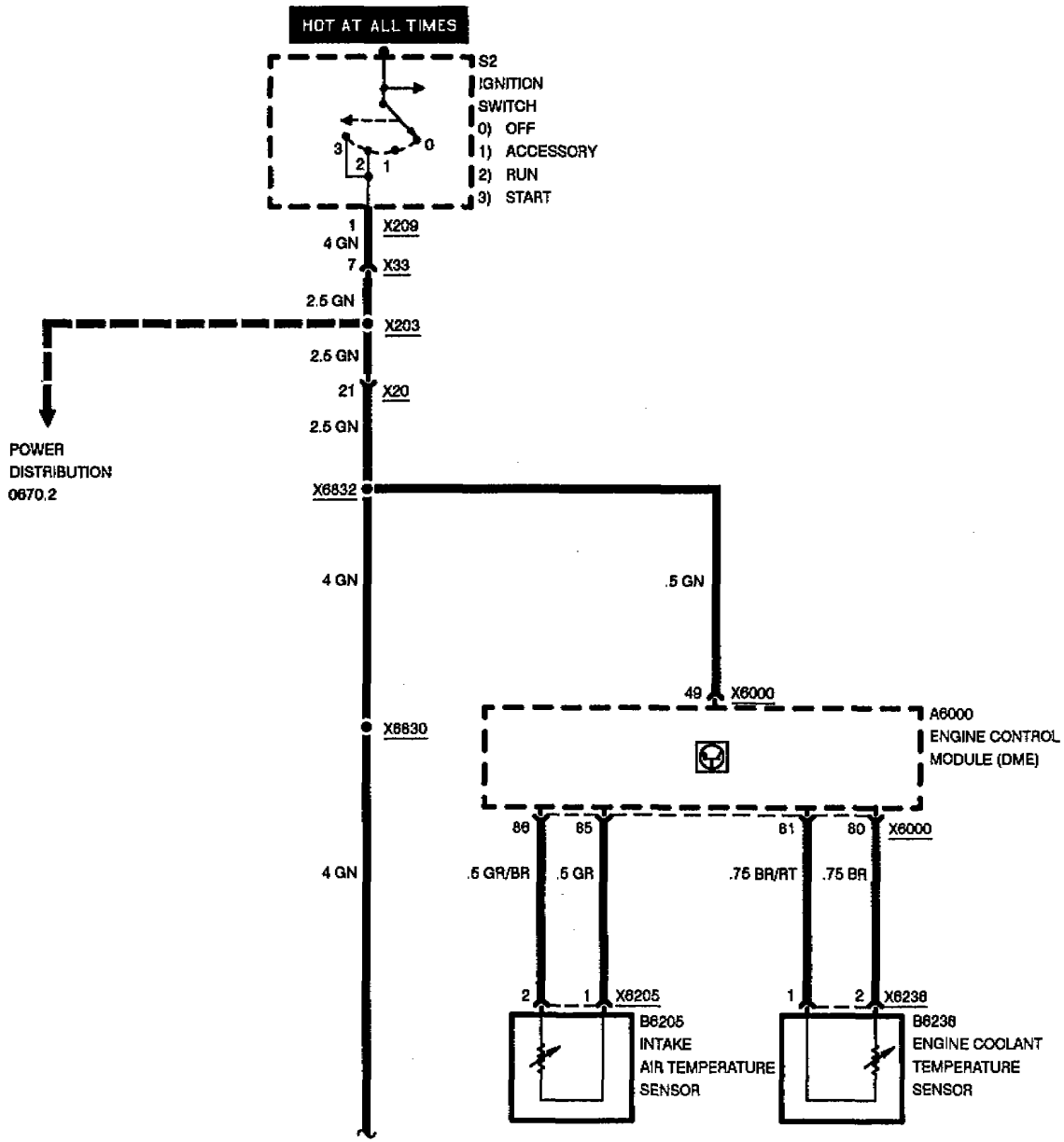
Pin	Type	Description/Function	Connection
63	E	Knock sensor signal (-)	Knock sensor (Cyl. 4-6)
64	E	Knock sensor signal (-)	Knock sensor (Cyl. 1-3)
65	A	Knock sensor signal (+)	Knock sensor (Cyl. 1-3)
66	A	Knock sensor signal (+)	Knock sensor (Cyl. 4-6)
67		Not used	
68	M	Ground, air mass meter	Hot film air mass meter
69	E	Air mass meter signal	Hot film air mass meter
70		Not used	
71		Not used	
72	A	Voltage supply	Throttle position sensor
73	E	Oxygen sensor signal	Oxygen sensor
74	M	Ground, hall effect camshaft sensor	Hall effect camshaft sensor
75	M	Ground, oxygen sensor	Oxygen sensor
76	M	Ground, throttle position sensor	Throttle position sensor
77	E	Throttle position signal	Throttle position sensor
78	E	Crankshaft position/RPM signal (-)	Crankshaft position/RPM sensor
79	A	Crankshaft position/RPM signal (+)	Crankshaft position/RPM sensor
80	E	Engine coolant temperature	Engine coolant temperature sensor
81	A	Engine coolant temperature	Engine coolant temperature sensor
82	M	Ground, crankshaft position/RPM sensor	Crankshaft position/RPM sensor
83	E	Camshaft signal (-)	Hall effect camshaft sensor
84	A	Camshaft signal (+)	Hall effect camshaft sensor
85	E	Engine intake air temperature	Engine intake air temperature sensor
86	M	Ground, engine intake air temperature sensor	Engine intake air temperature sensor
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

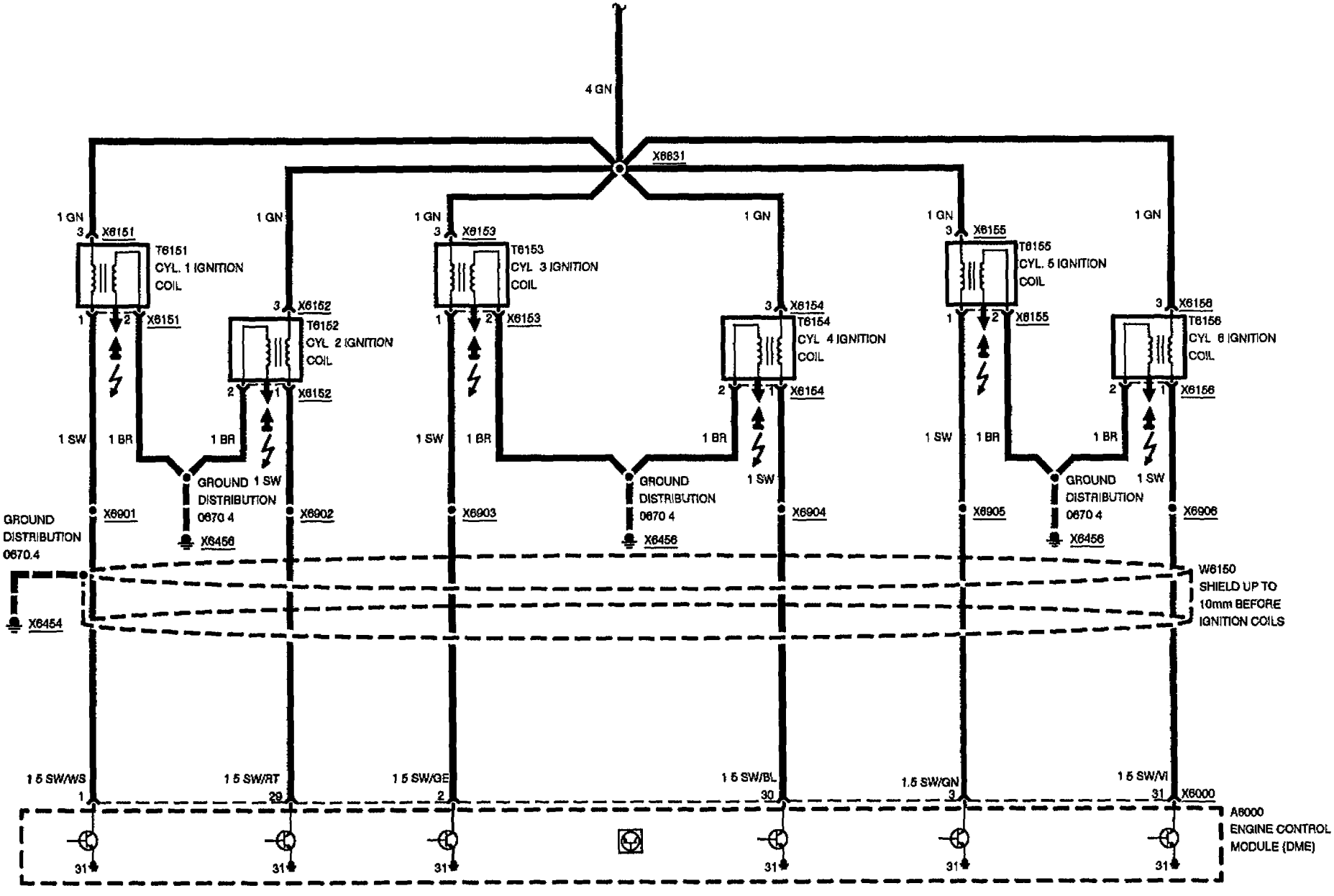
E = Input, A = Output, M = Ground

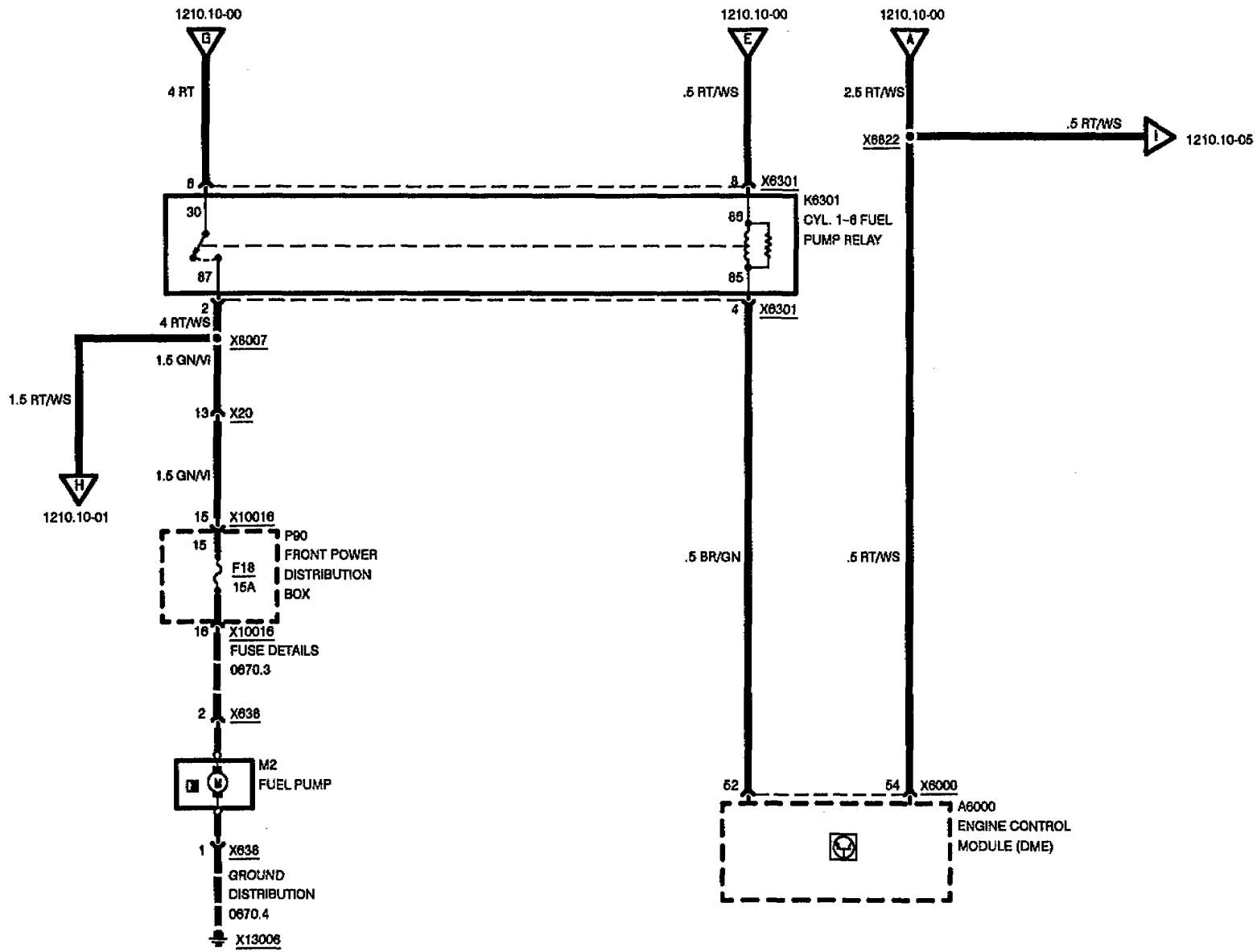

G6430
B+
JUMP START
JUNCTION POINT
POWER
DISTRIBUTION
0670.2
X6430
6 RT
4 RT
X6411
X6410
2.5 RT
14
D100
X6002
DATA LINK
CONNECTOR
4 RT
6
X6300
K6300
ENGINE CONTROL
MODULE RELAY
86
30
85
87
87
4
5
2
X6300
4 RT/WS
2.5 RT/WS
A
1210.10-04
4 RT
B
1210.10-04
1 RT
.5 RT
X6621
1.5 RT/WS
54
26
X7000
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
.5 BR
.5 RT/WS
.5 RT/WS
B
1210.10-08
1 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
D
C
E
F
1210.10-01
1210.10-04
1210.10-05
55
48
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
31
31

ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

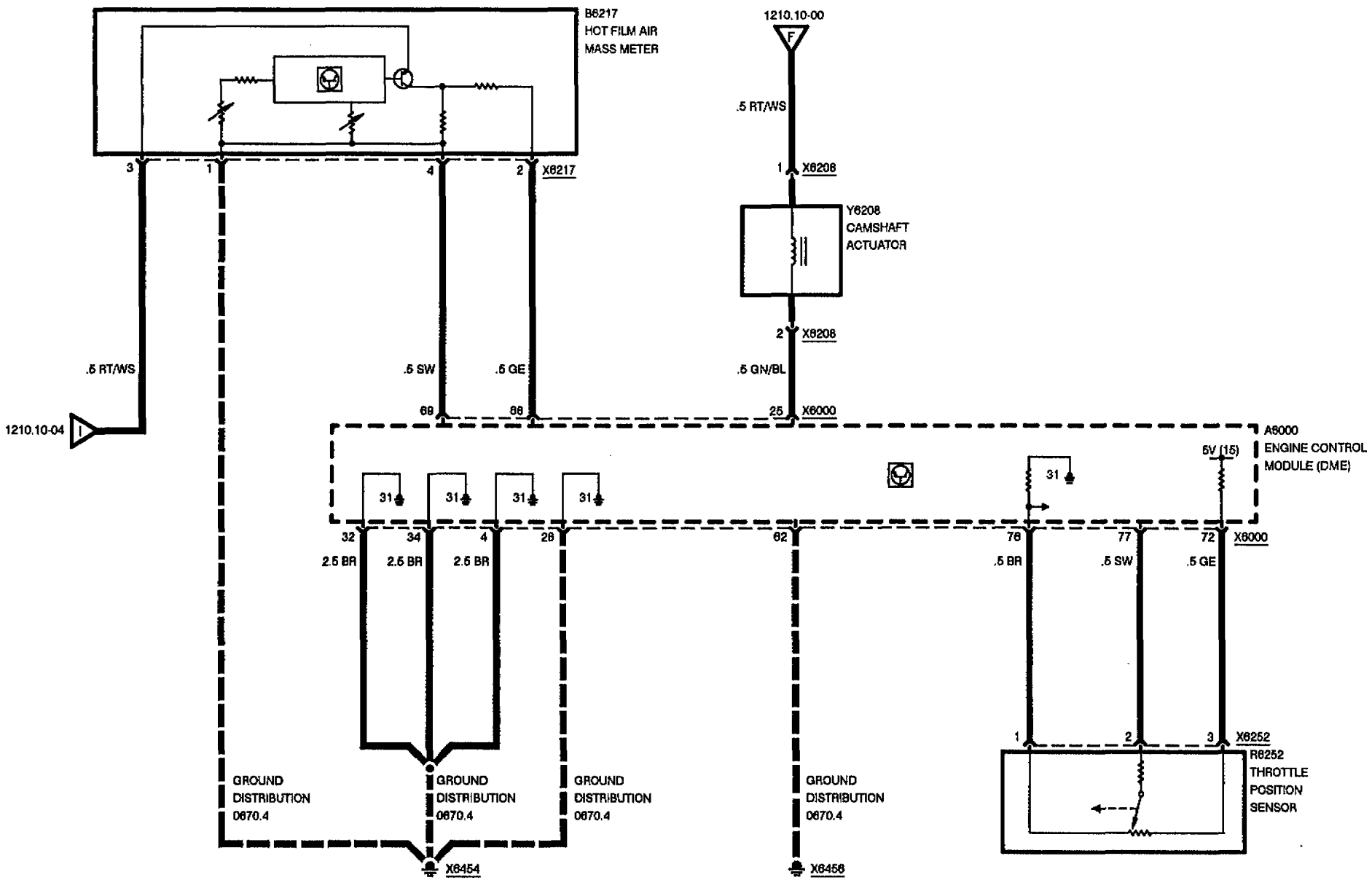


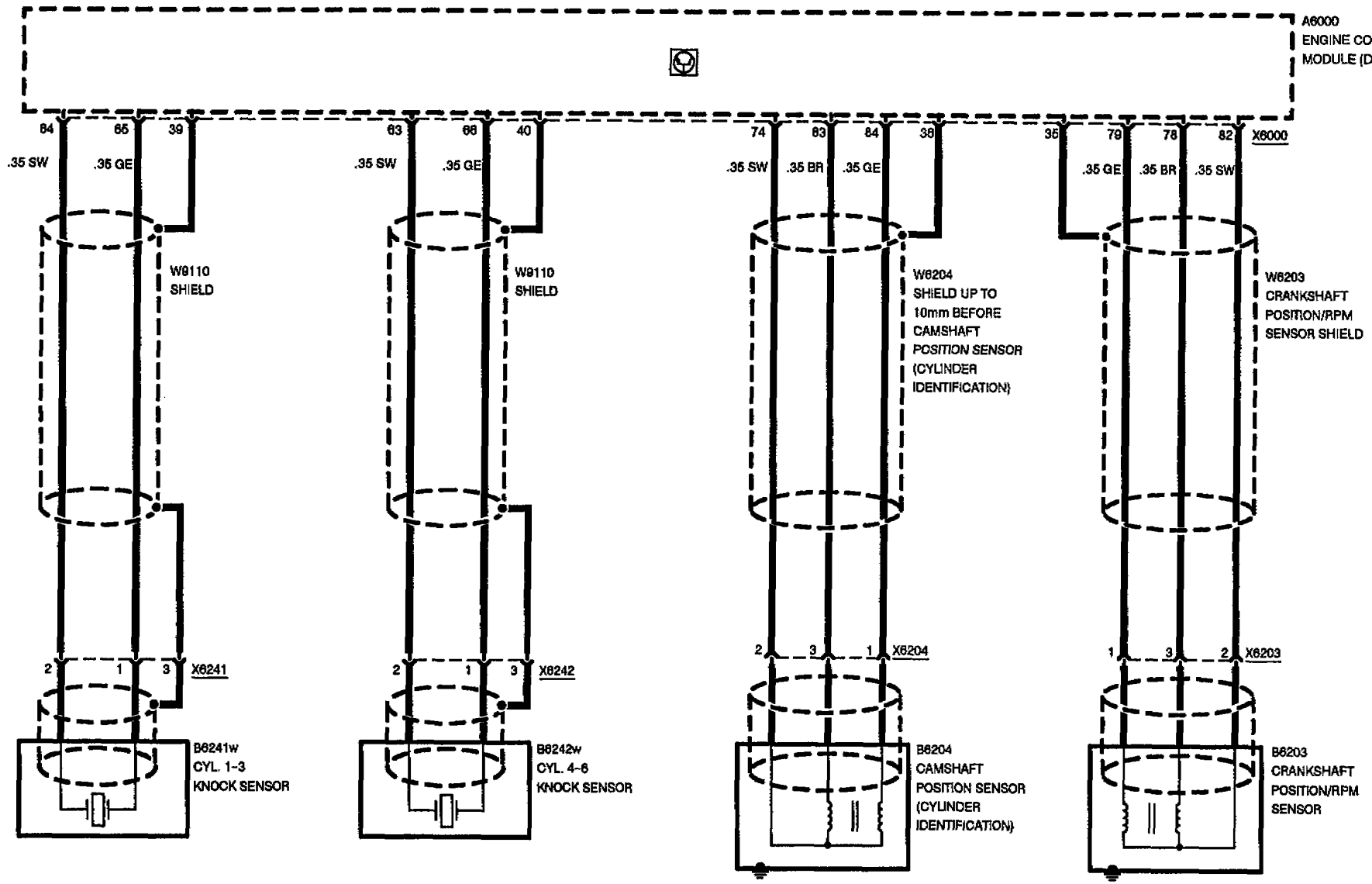

HOT AT ALL TIMES
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
3
2
1
0
1
4 GN
X209
7
X33
2.5 GN
X203
2.5 GN
21
X20
2.5 GN
POWER
DISTRIBUTION
0670.2
X6832
4 GN
.5 GN
49
X6000
A6000
ENGINE CONTROL
MODULE (DME)
X6830
4 GN
86
85
61
60
X6000
.5 GR/BR
.5 GR
.75 BR/RT
.75 BR
2
1
X6205
1
2
X6236
B6205
INTAKE
AIR TEMPERATURE
SENSOR
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR


4 GN
X6631
1 GN
X6151
T6151
CYL. 1 IGNITION COIL
X6151
X6152
T6152
CYL. 2 IGNITION COIL
X6152
X6153
T6153
CYL. 3 IGNITION COIL
X6153
X6154
T6154
CYL. 4 IGNITION COIL
X6154
X6155
T6155
CYL. 5 IGNITION COIL
X6155
X6156
T6156
CYL. 6 IGNITION COIL
X6156
1 SW
1 BR
GROUND DISTRIBUTION 0670.4
X6456
1 SW
GROUND DISTRIBUTION 0670.4
X6901
X6902
X6903
X6904
X6905
X6906
X6454
W6150
SHIELD UP TO 10mm BEFORE IGNITION COILS
1.5 SW/WS
1.5 SW/RT
1.5 SW/GE
1.5 SW/BL
1.5 SW/GN
1.5 SW/VI
X6000
A6000
ENGINE CONTROL MODULE (DME)
31


1210.10-00
G
4 RT
8
30
87
2
4 RT/WS
X6007
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
15
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
16
X10016
FUSE DETAILS
0670.3
2
X636
M2
FUEL PUMP
1
X636
GROUND
DISTRIBUTION
0670.4
X13006
1.5 RT/WS
H
1210.10-01
1210.10-00
E
.5 RT/WS
8
X6301
86
85
4
X6301
K6301
CYL. 1-6 FUEL
PUMP RELAY
.5 BR/GN
52
1210.10-00
A
2.5 RT/WS
X6822
.5 RT/WS
I
1210.10-05
.5 RT/WS
54
X6000
A6000
ENGINE CONTROL
MODULE (DME)

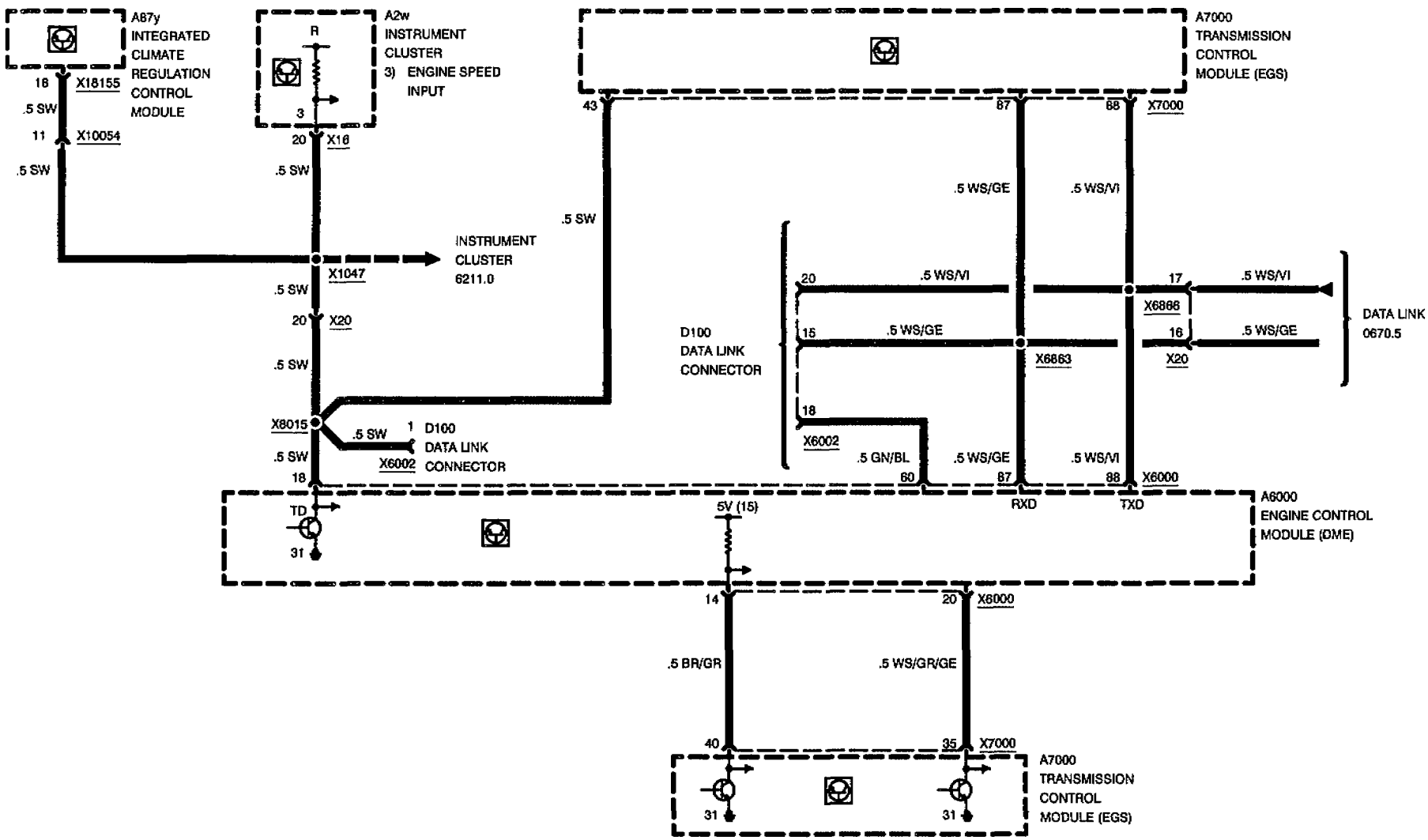
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

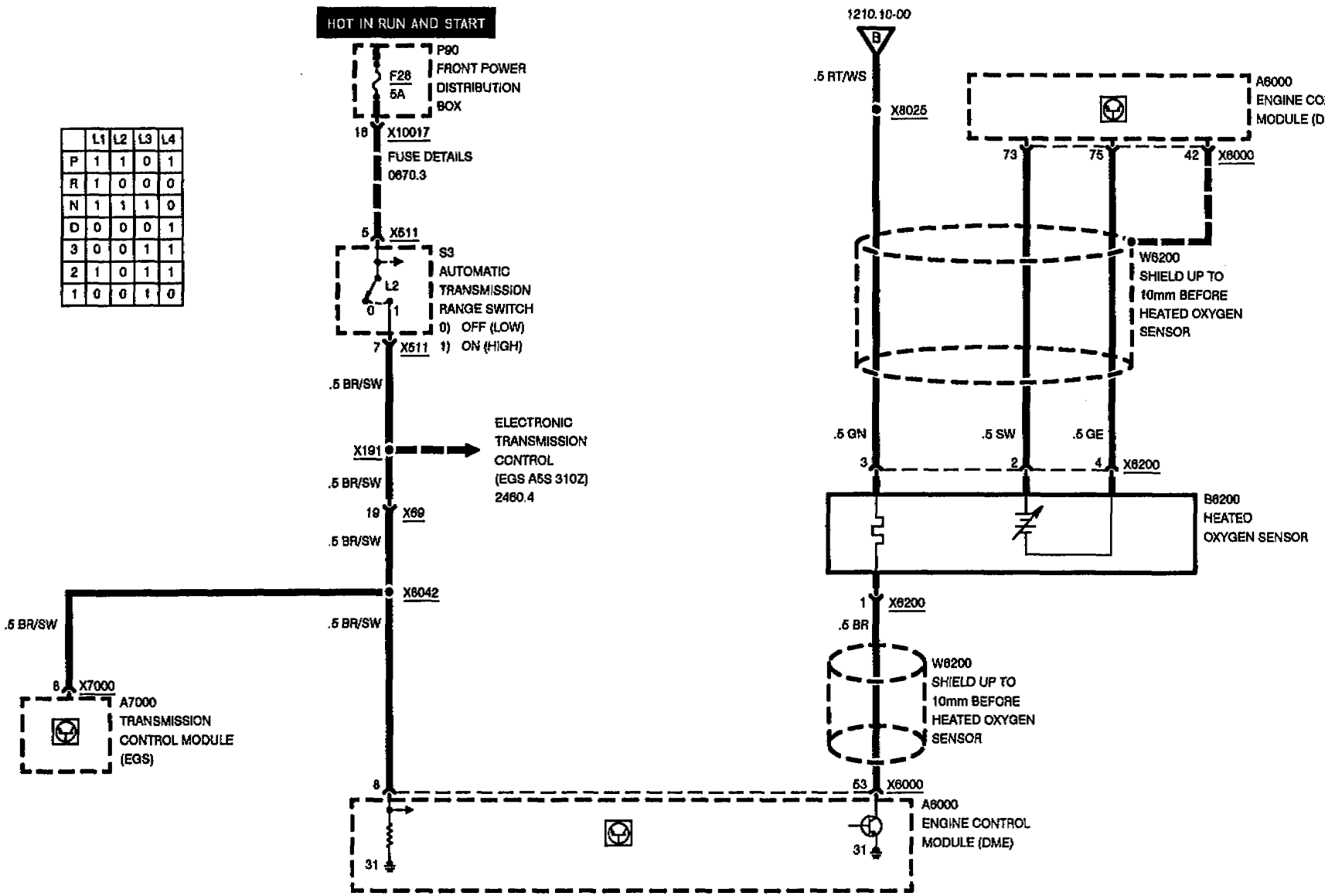



A6000
ENGINE CONTROL
MODULE (DME)
64
65
39
.35 SW
.35 GE
W9110
SHIELD
2
1
3
X6241
B6241w
CYL. 1-3
KNOCK SENSOR
63
66
40
.35 SW
.35 GE
W9110
SHIELD
2
1
3
X6242
B6242w
CYL. 4-6
KNOCK SENSOR
74
83
84
38
.35 SW
.35 BR
.35 GE
W6204
SHIELD UP TO
10mm BEFORE
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
2
3
1
X6204
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
35
79
78
82
X6000
.35 GE
.35 BR
.35 SW
W6203
CRANKSHAFT
POSITION/RPM
SENSOR SHIELD
1
3
2
X6203
B6203
CRANKSHAFT
POSITION/RPM
SENSOR

ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)

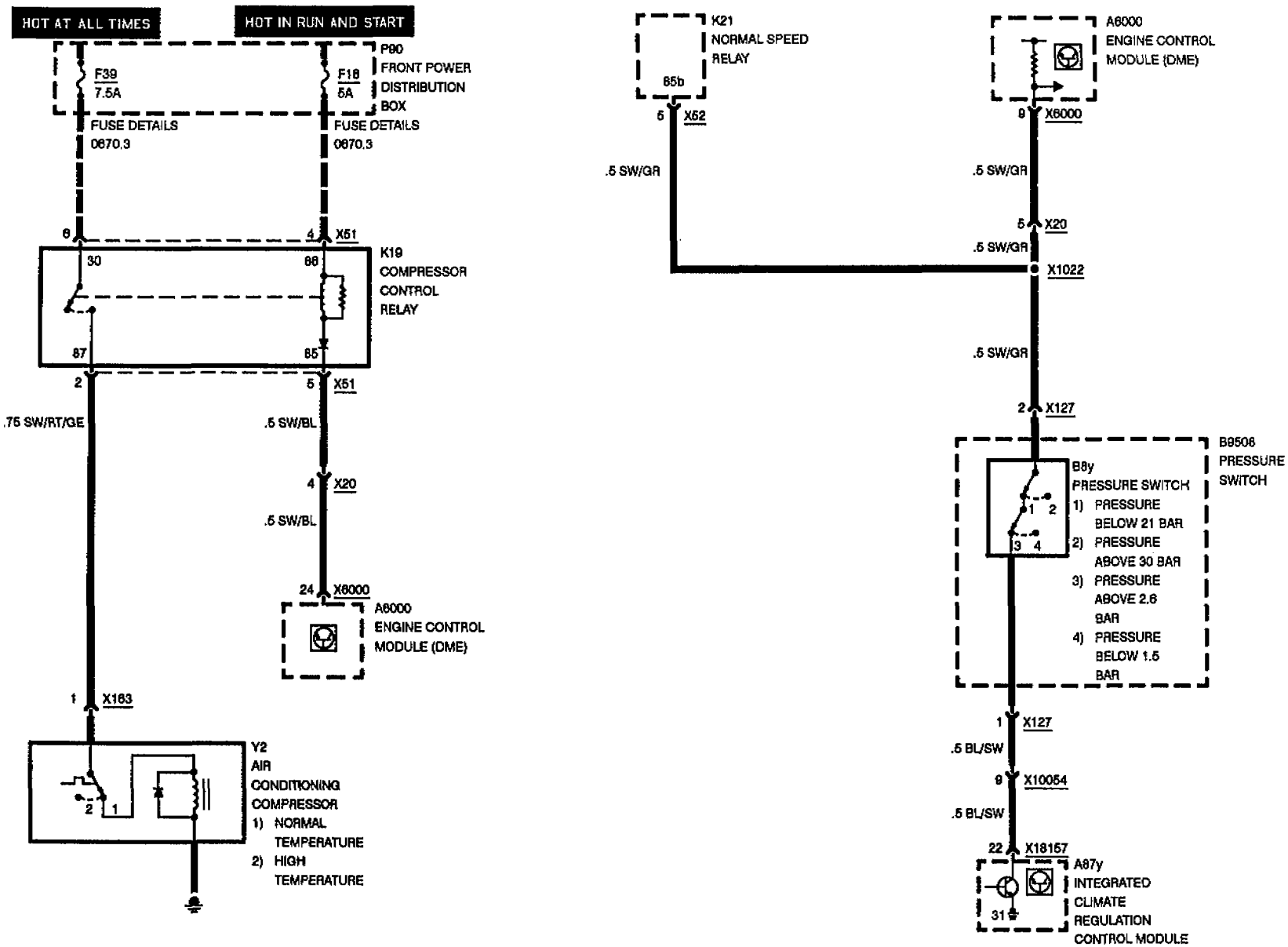
CDN





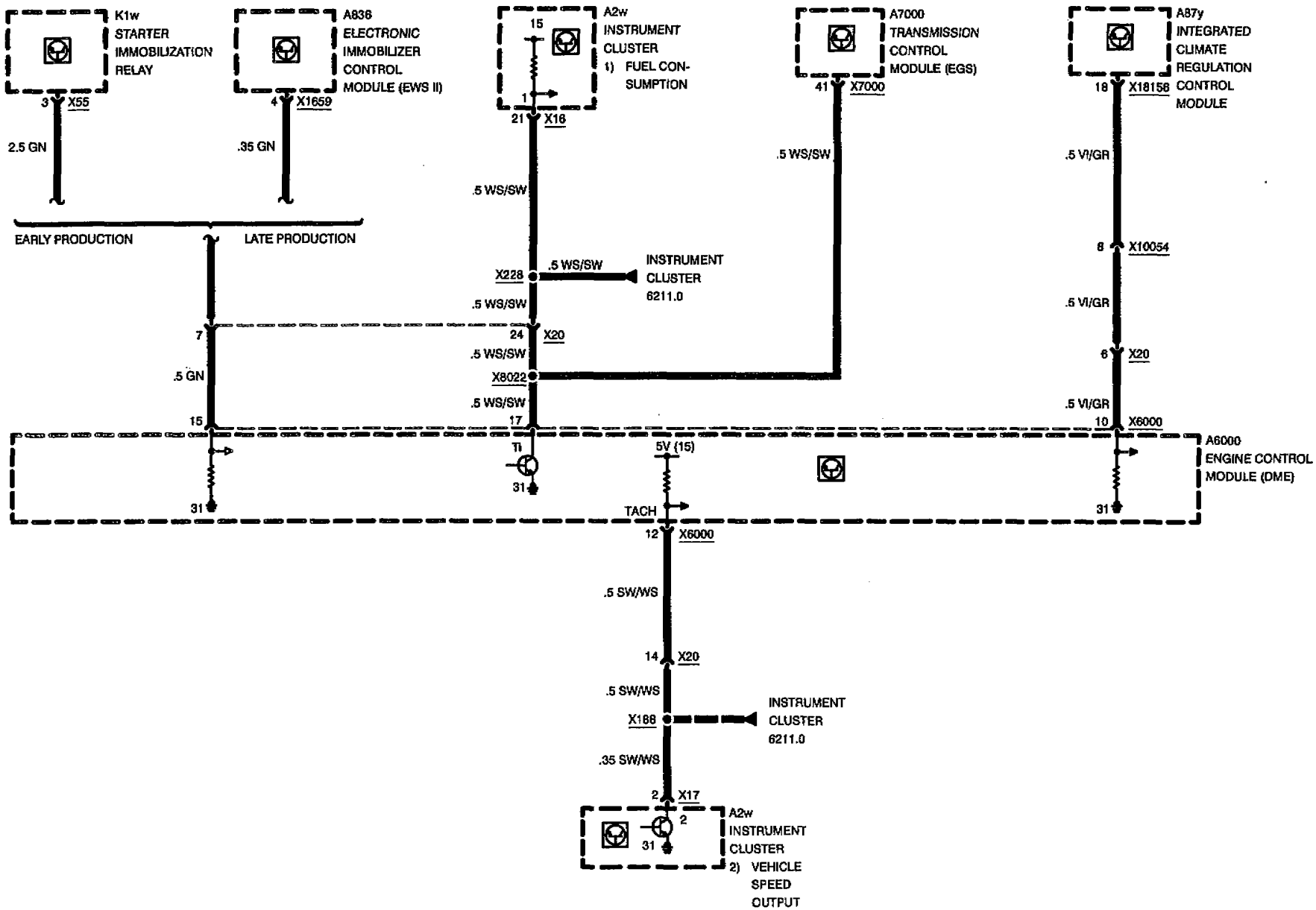
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

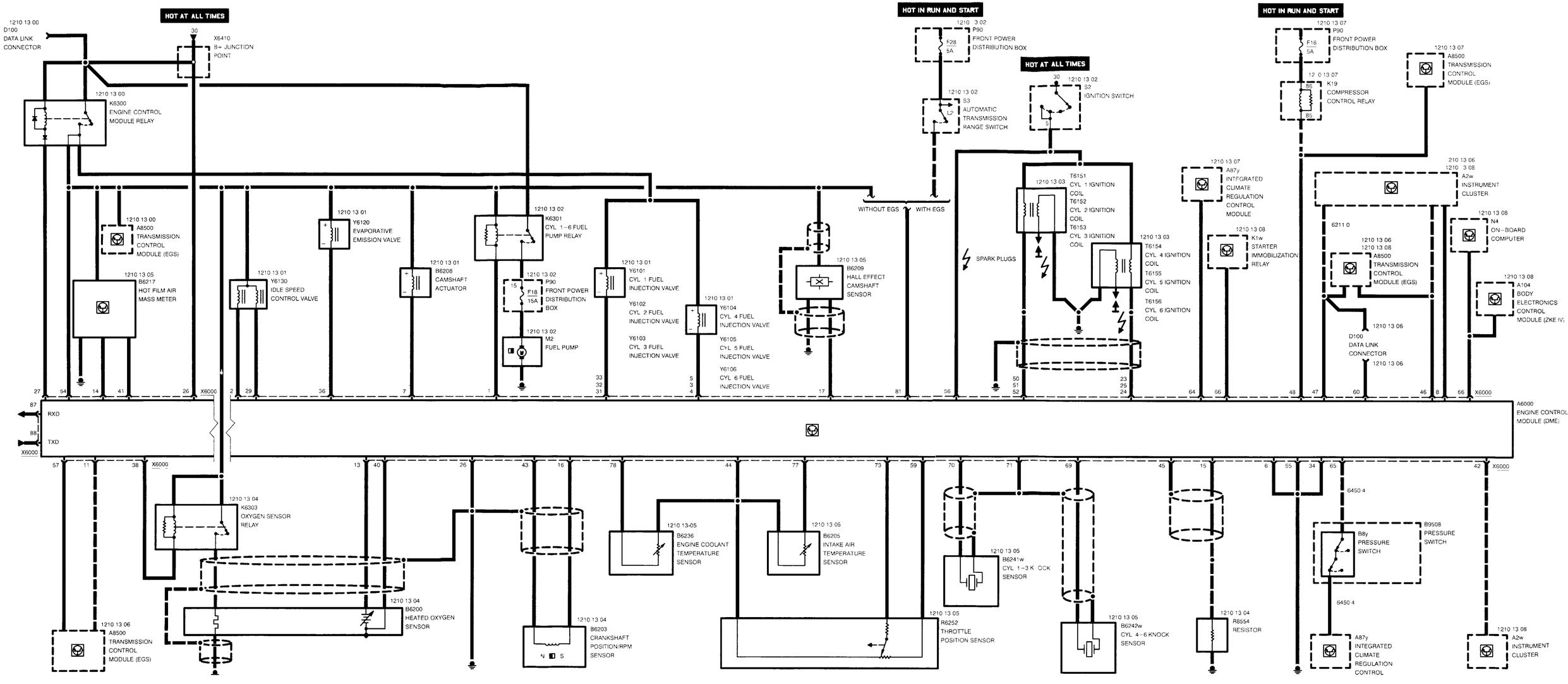


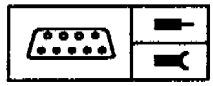
ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)

CDN



09/94 1210 13 1995
09/94 1210 13 1995





Pin Assignments

X6000

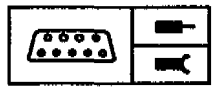
Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2	A	Idle speed control valve - close winding control	Idle speed control valve
3	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
4	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
5	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
6	M	Ground, fuel injection valve output stages	Ground point
7	A	Camshaft actuator control	Camshaft actuator
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	Throttle valve position	Transmission control module (EGS)
12		Not used	
13	E	Oxygen sensor signal	Heated oxygen sensor
14	A	Hot wire air mass meter	Hot wire air mass meter
15	M	Ground	Ground point
16	E	Crankshaft position/RPM sensor signal (+)	Crankshaft position/RPM sensor
17	E	Camshaft position sensor	Hall effect camshaft sensor
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
25	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve - opening winding control	Idle speed control valve
30		Not used	
31	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
32	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
33	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
34	M	Ground remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37		Not used	
38	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
39		Not used	
40	M	Oxygen sensor signal ground	Heated oxygen sensor
41	E	Hot wire air mass meter	Hot wire air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	E	Crankshaft position/RPM sensor signal (–)	Crankshaft position/RPM sensor
44	M	Ground for sensors	Engine intake air temperature sensor, engine coolant temperature sensor, and throttle position sensor
45	M	Ground for shield	Shield
46	A	Ti measurement signal (fuel consumption)	Instrument cluster
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	A	A/C compressor control	Compresor control relay, terminal 85
49		Not used	
50	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
51	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
52	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch
57	E	Ignition timing intervention	Transmission control module (EGS)

E = Input, A = Output, M = Ground



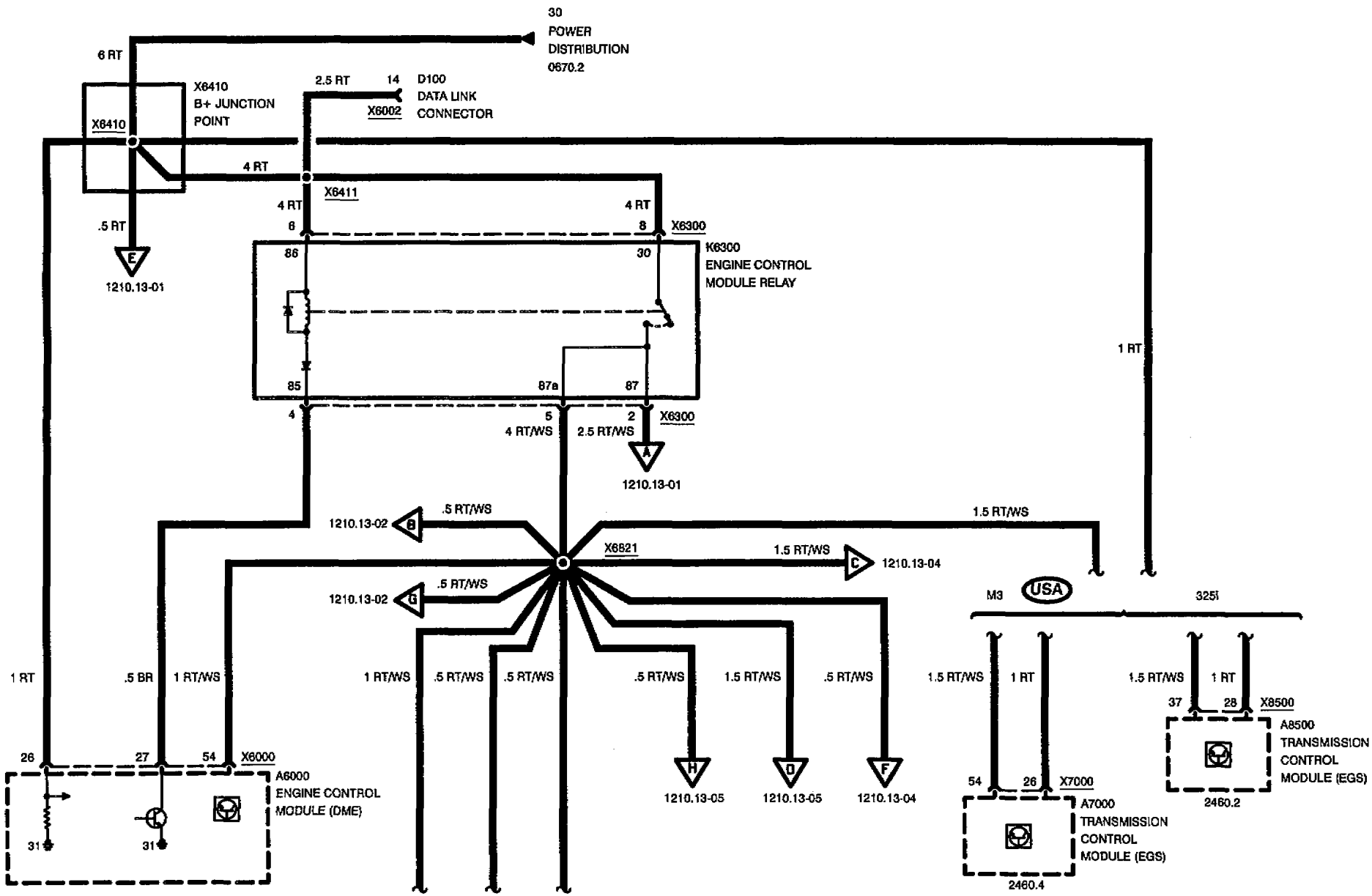
Pin Assignments

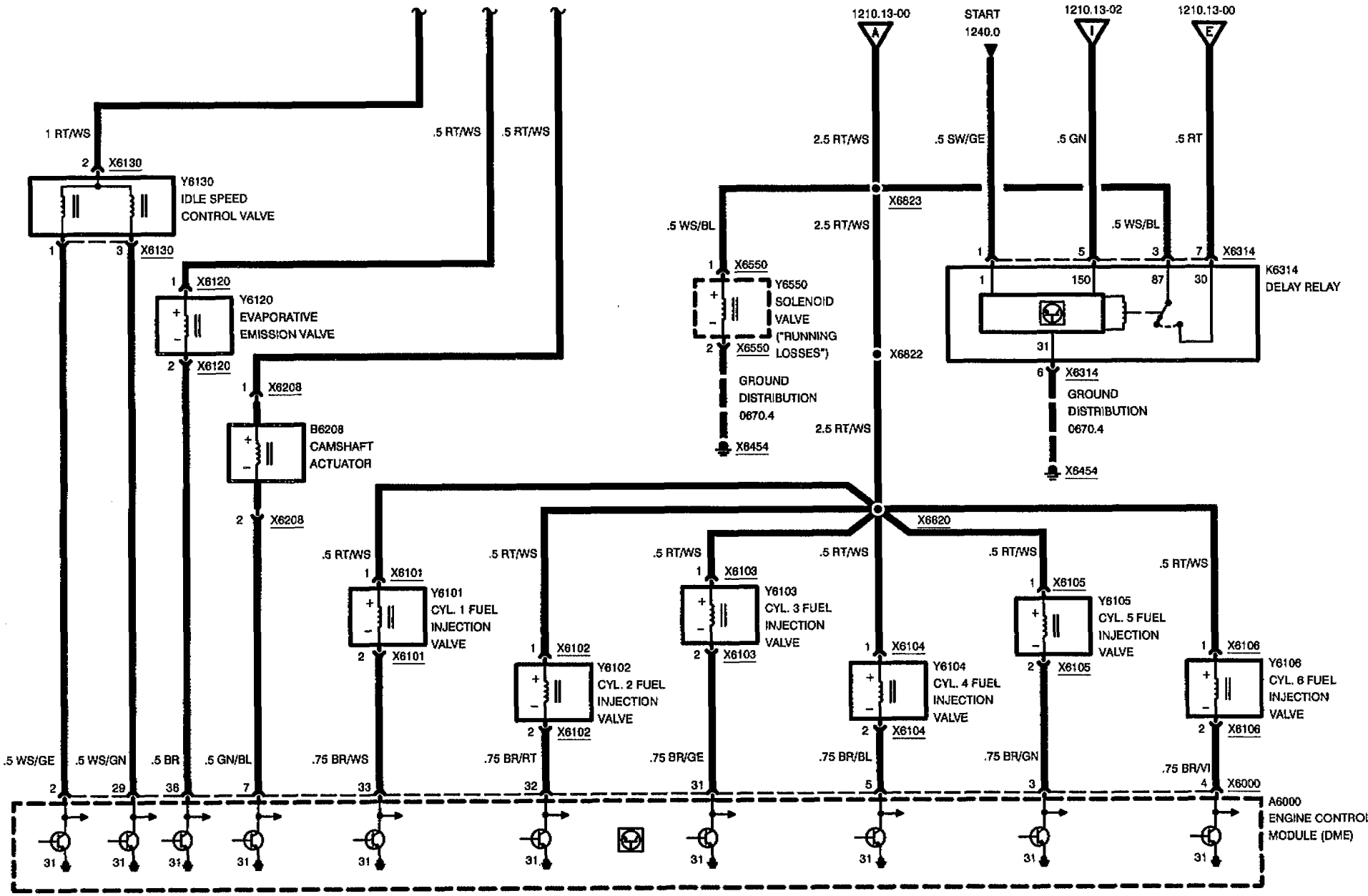
Pin	Type	Description/Function	Connection
58		Not used	
59	A	5V component supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	A/C switch	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch
66	E	Drive-away protection signal (code)	Starter interlock module
67		Not used	
68		Not used	
69	E	Cyl. 4-6 knock sensor	Cyl. 4-6 knock sensor
70	E	Cyl. 1-3 knock sensor	Cyl. 1-3 knock sensor
71	M	Ground for knock sensors and shields	Cyl. 1-3 knock sensor, cyl. 4-6 knock sensor, and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive range P/N	Automatic transmission range switch
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87	E	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

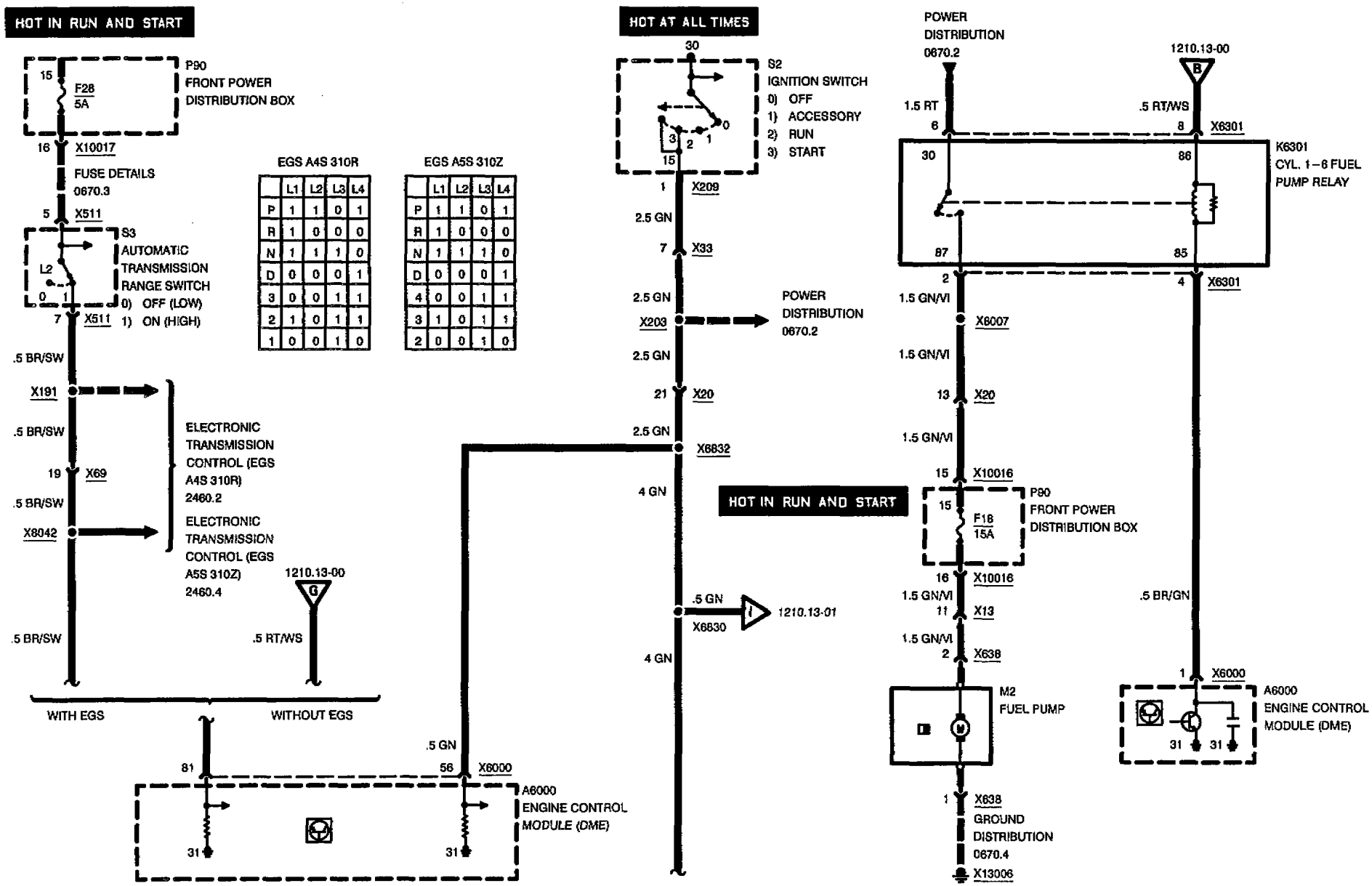
POWER, FUEL INJECTION VALVES

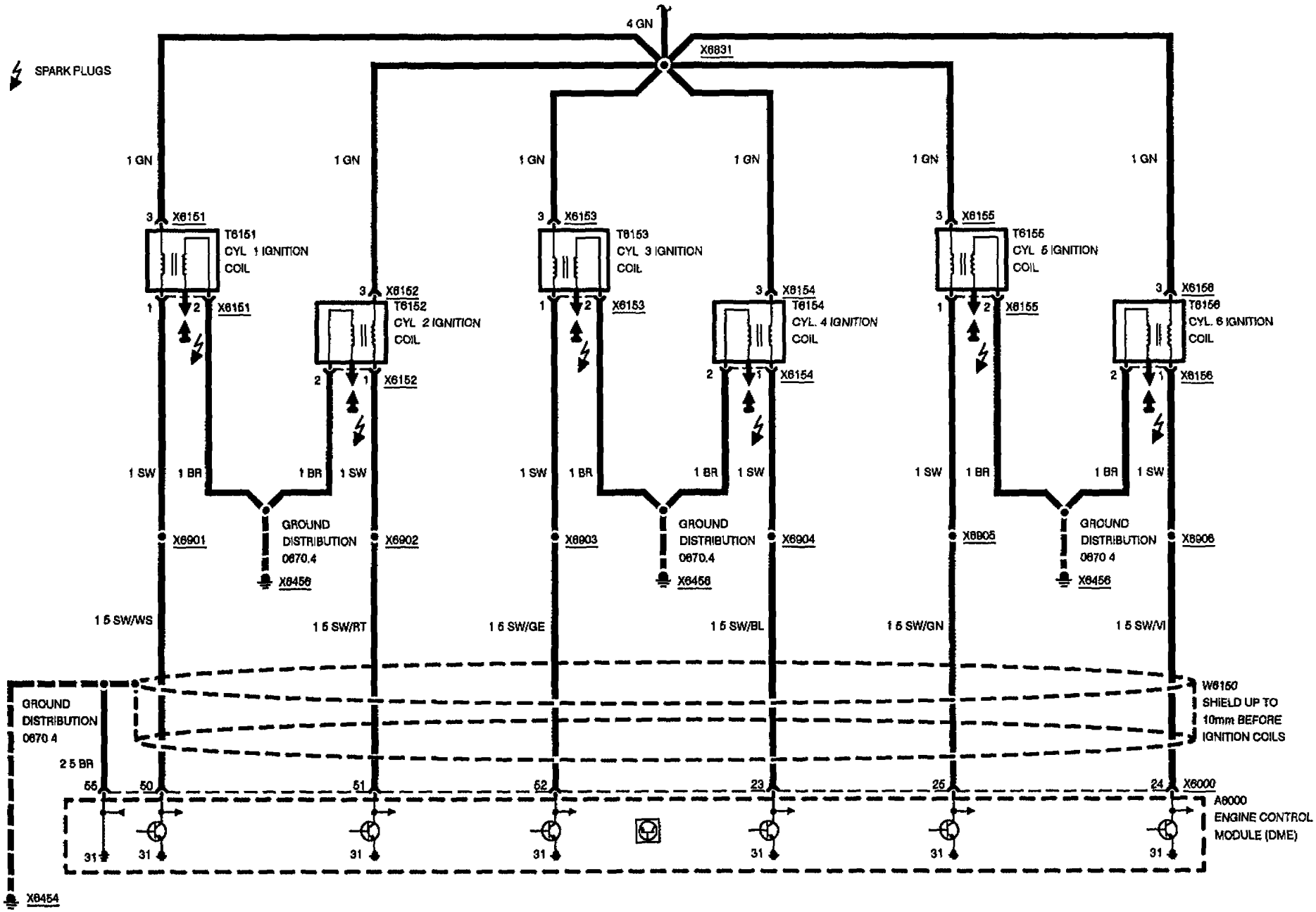



1210.13-00
START
1240.0
1210.13-02
1210.13-00
1 RT/WS
.5 RT/WS
.5 RT/WS
2.5 RT/WS
.5 SW/GE
.5 GN
.5 RT
X6130
Y6130
IDLE SPEED
CONTROL VALVE
X6823
.5 WS/BL
2.5 RT/WS
.5 WS/BL
X6314
K6314
DELAY RELAY
X6120
Y6120
EVAPORATIVE
EMISSION VALVE
X6550
Y6550
SOLENOID
VALVE
("RUNNING
LOSSES")
X6822
GROUND
DISTRIBUTION
0670.4
X6454
X6208
B6208
CAMSHAFT
ACTUATOR
X6620
.5 RT/WS
X6101
Y6101
CYL. 1 FUEL
INJECTION
VALVE
X6102
Y6102
CYL. 2 FUEL
INJECTION
VALVE
X6103
Y6103
CYL. 3 FUEL
INJECTION
VALVE
X6104
Y6104
CYL. 4 FUEL
INJECTION
VALVE
X6105
Y6105
CYL. 5 FUEL
INJECTION
VALVE
X6106
Y6106
CYL. 6 FUEL
INJECTION
VALVE
.5 WS/GE
.5 WS/GN
.5 BR
.5 GN/BL
.75 BR/WS
.75 BR/RT
.75 BR/GE
.75 BR/BL
.75 BR/GN
.75 BR/VI
X6000
A6000
ENGINE CONTROL
MODULE (DME)

ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

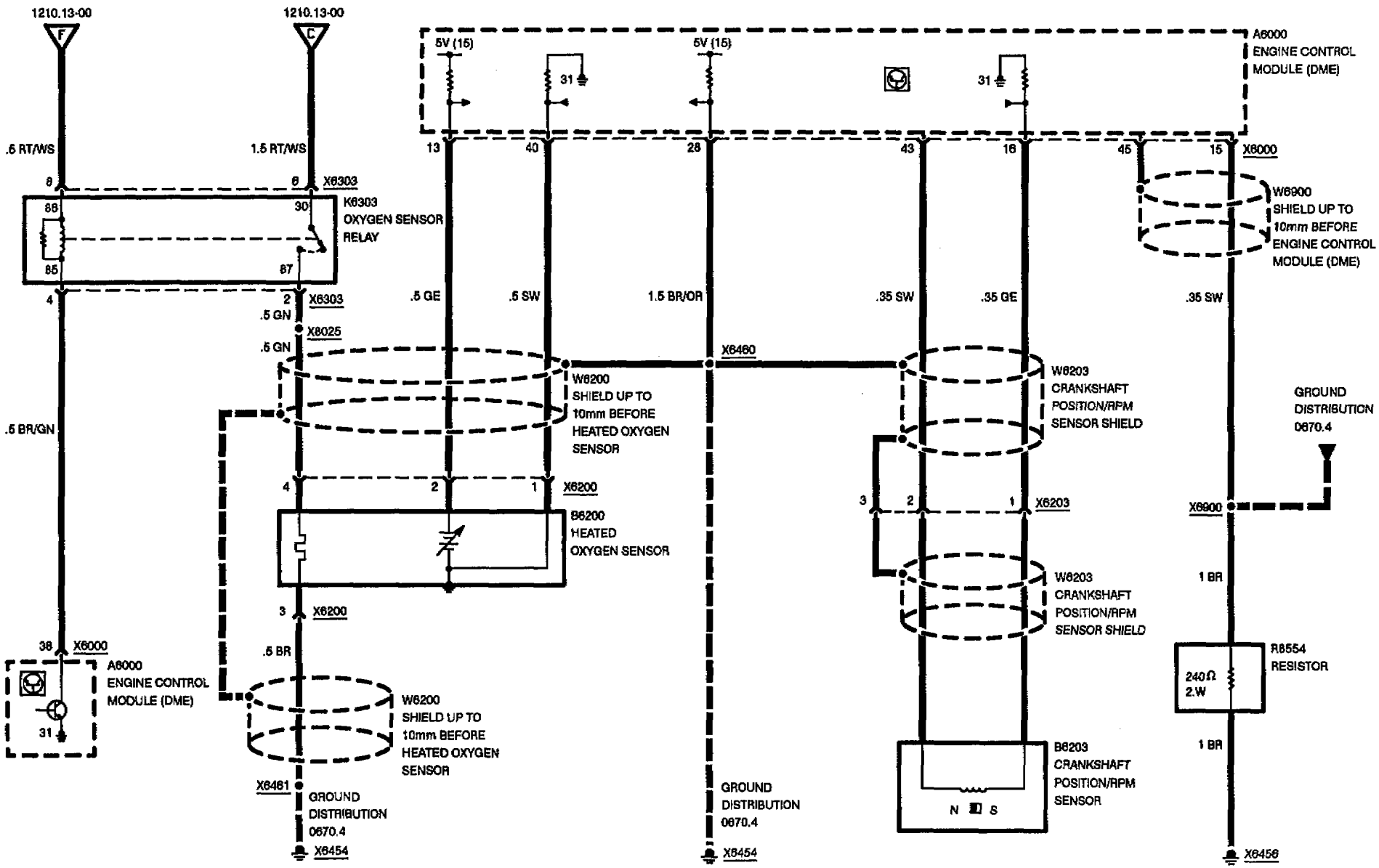
FUEL PUMP, IGNITION COILS



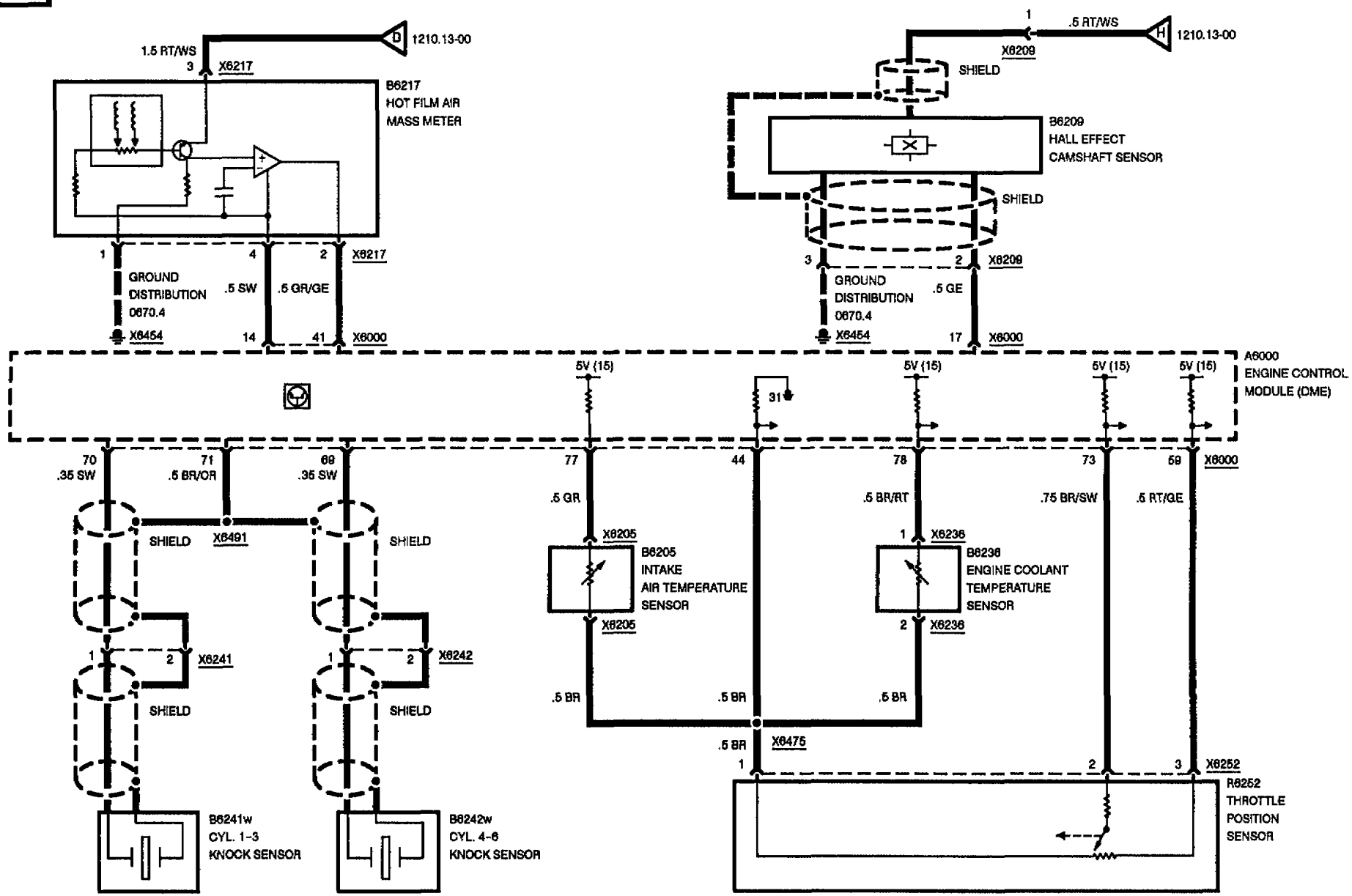

SPARK PLUGS
4 GN
X6831
1 GN
1 GN
1 GN
1 GN
1 GN
1 GN
X6151
T6151
CYL 1 IGNITION COIL
X6152
T6152
CYL 2 IGNITION COIL
X6153
T6153
CYL 3 IGNITION COIL
X6154
T6154
CYL. 4 IGNITION COIL
X6155
T6155
CYL 5 IGNITION COIL
X6156
T6156
CYL. 6 IGNITION COIL
1 SW
1 BR
1 BR
1 SW
GROUND DISTRIBUTION 0670.4
X6456
X6901
X6902
X6903
X6904
X6905
X6906
1 5 SW/WS
1 5 SW/RT
1 5 SW/GE
1 5 SW/BL
1 5 SW/GN
1 5 SW/VI
GROUND DISTRIBUTION 0670 4
2 5 BR
W6150
SHIELD UP TO 10mm BEFORE IGNITION COILS
X6000
A6000
ENGINE CONTROL MODULE (DME)
X6454

ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

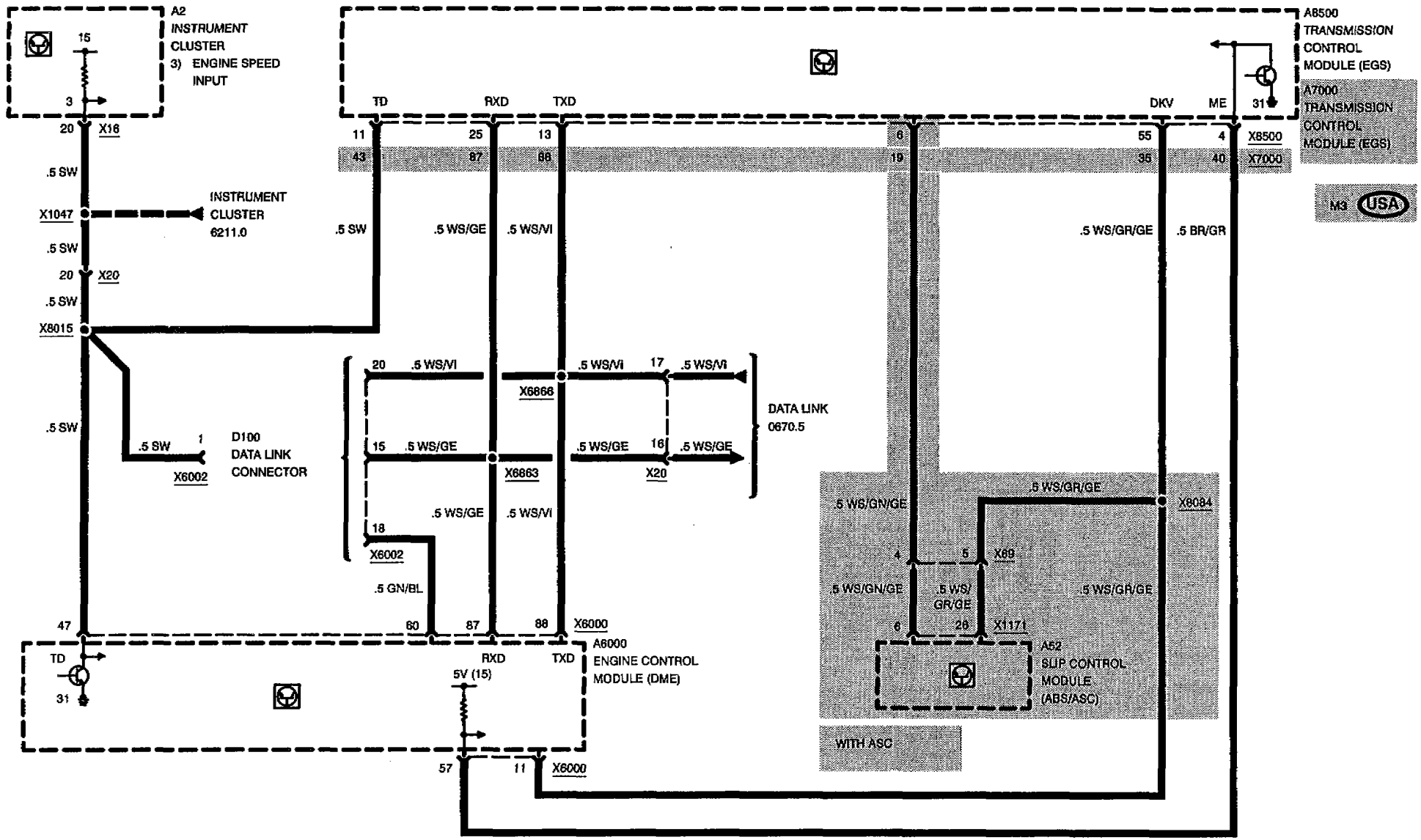


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

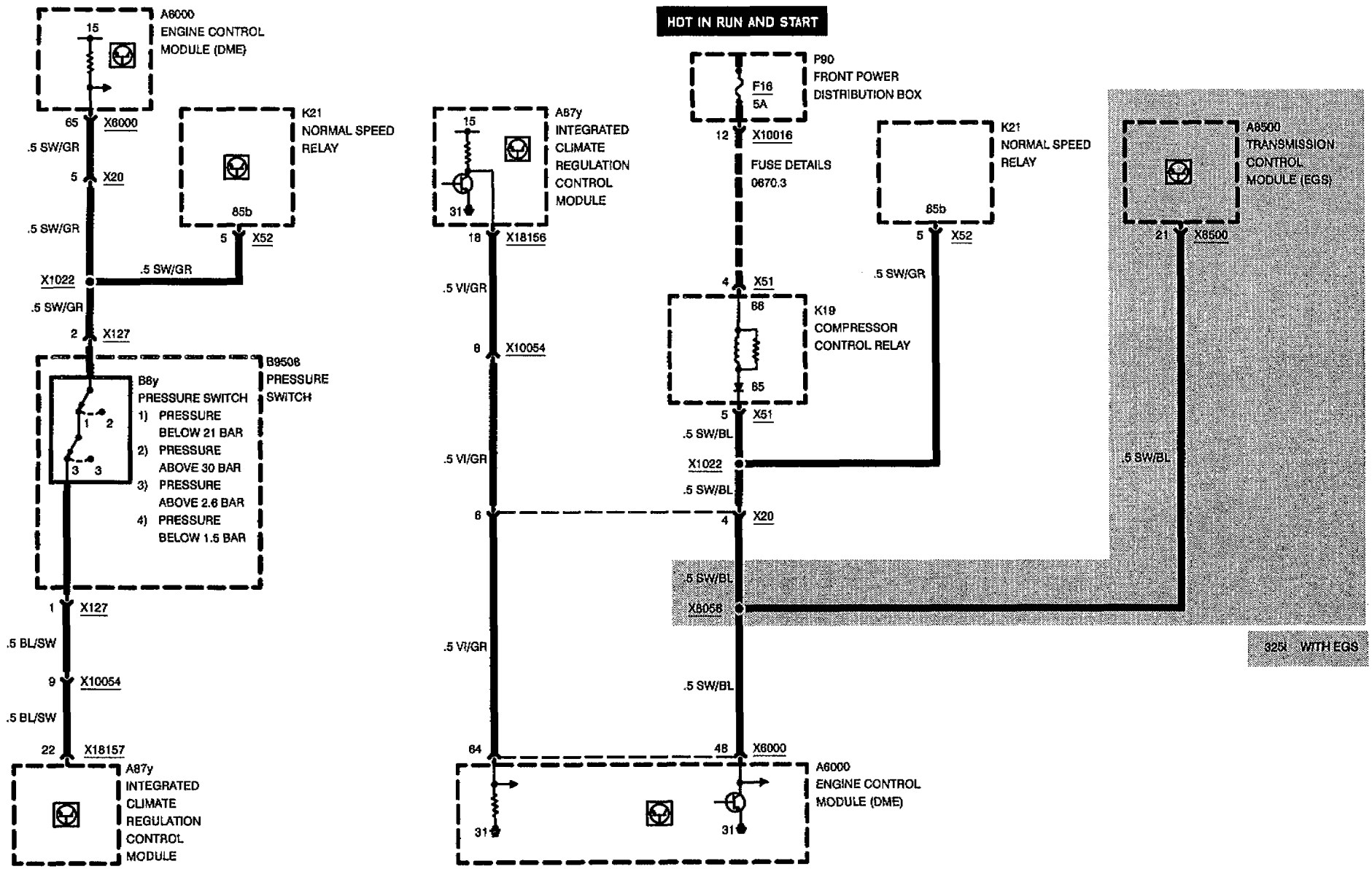


ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

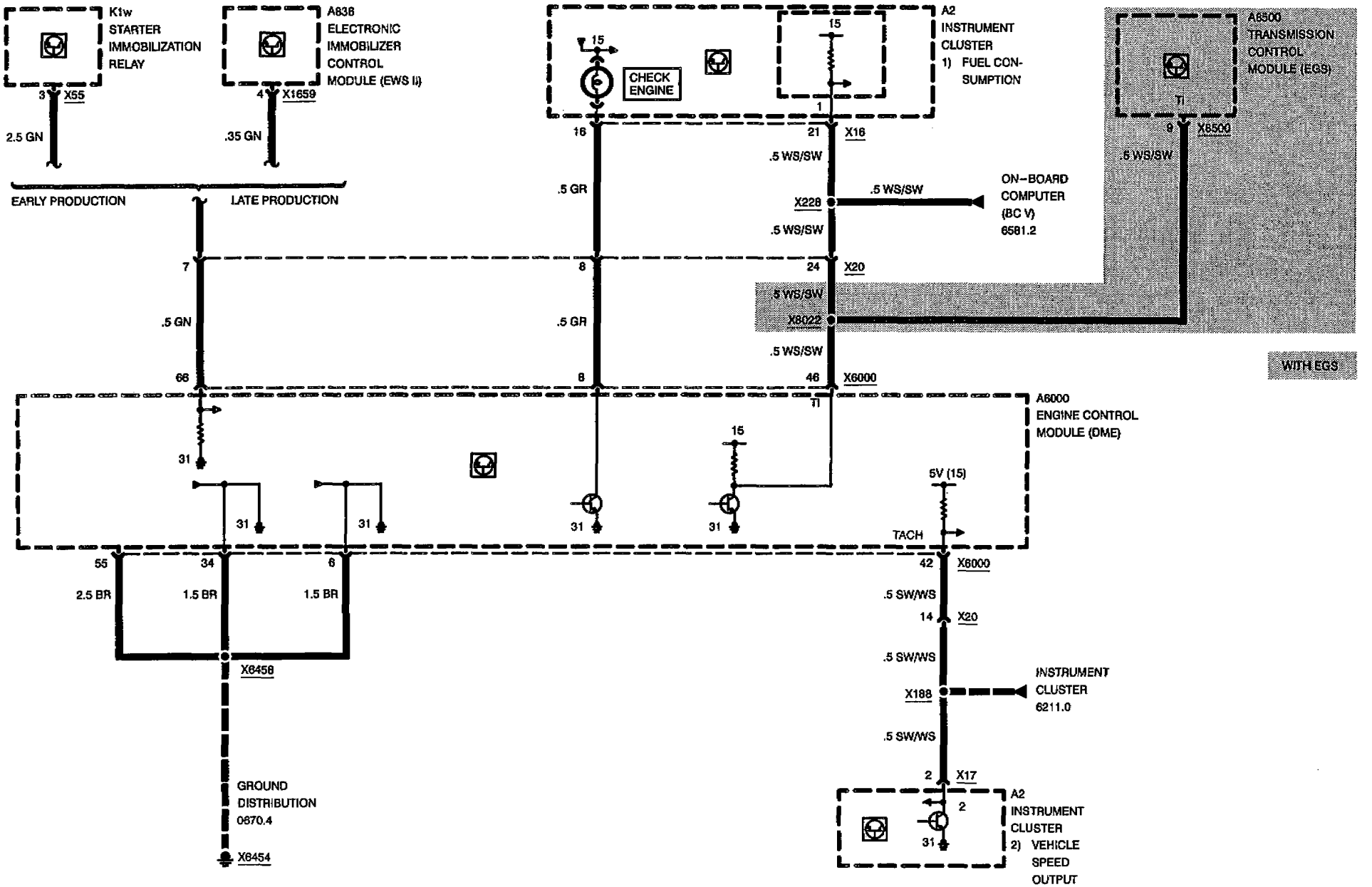
DATA LINK

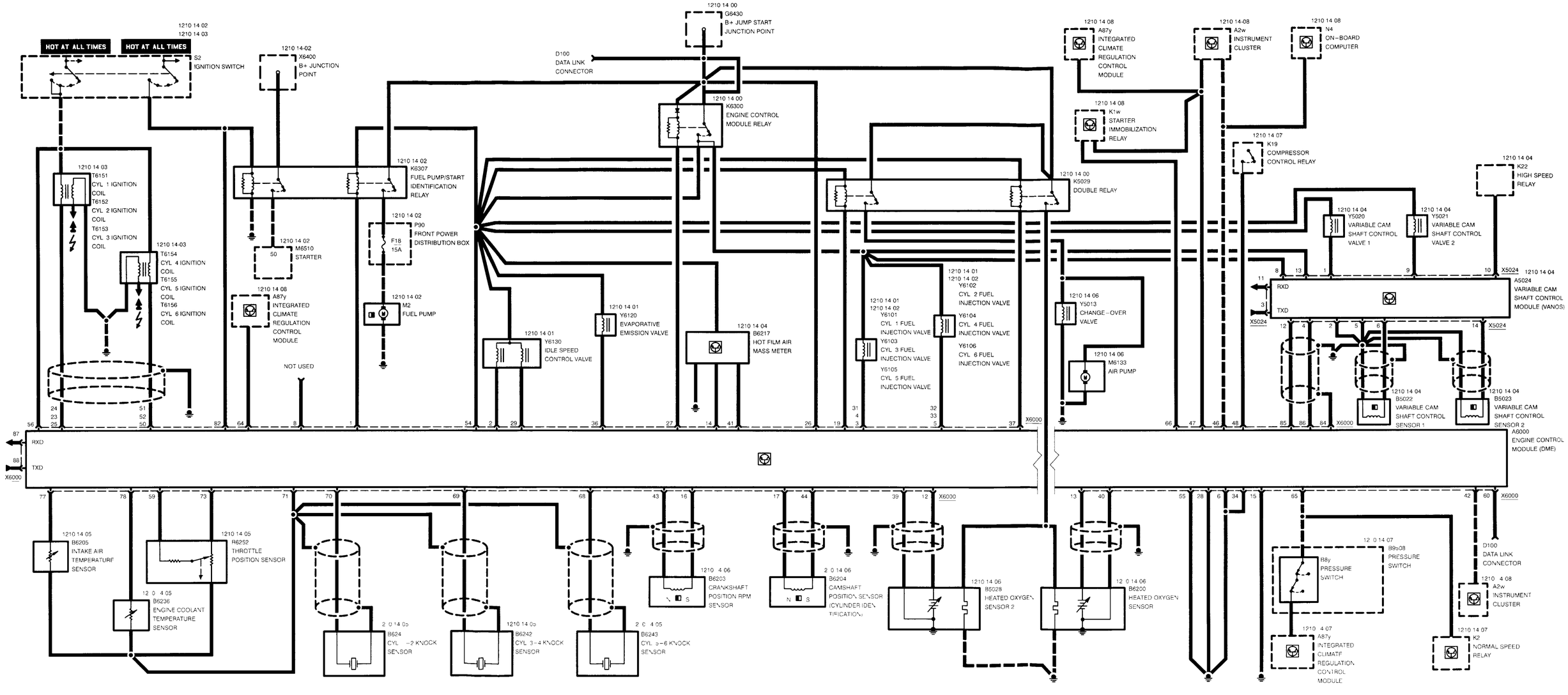


ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)



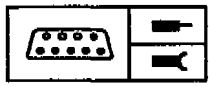
ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)





09/94 1210 14 1995

09/94 1210 14 1995



Pin Assignments

X5024

Pin	Type	Description/Function	Connection
1	A	Valve 1 (delayed setting)	Variable camshaft control valve 1
2	M	Ground	Ground
3	A	RxD diagnostic data link	Data link connector
4	E/A	CAN-High signal	Engine control module (DME)
5	M	Ground	Ground
6	E	Sensor 1 (output NW)	Variable camshaft control sensor 1
7		Not used	
8	E	Battery voltage	DME-relay
9	A	Valve 2 (advanced setting)	Variable camshaft control valve 2
10	E	Fan signal	High speed relay (auxiliary fan)
11	E/A	TxD diagnostic data link	Data link connector
12	E/A	CAN-Low signal	Engine control module (DME)
13	E	Battery voltage	DME-relay
14	E	Sensor 2 (input NW)	Variable camshaft control sensor 2
15		Not used	

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay
2	A	Close winding control	Idle speed control valve
3	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
4	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	M	Ground, full injection output stages	Ground
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

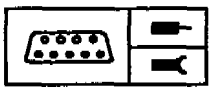
Pin	Type	Description/Function	Connection
12	E	Oxygen sensor II signal	Heated oxygen sensor
13	E	Oxygen sensor I signal	Heated oxygen sensor
14	M	Ground, hot film air mass meter	Hot film air mass meter
15	E	Ignition control signal	Ground
16	E	Crankshaft position/RPM sensor signal	Crankshaft position/RPM sensor
17	E	Camshaft position sensor signal	Hall effect camshaft sensor
18		Not used	
19	A	Secondary air pump	Double relay
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	Jump start junction point
27	A	DME relay signal	Engine control module relay
28	M	Ground	Ground
29	A	Opening winding control	Idle speed control valve
30		Not used	
31	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
32	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
33	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
34	M	Ground, output stages	Ground
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Double relay
38		Not used	
39	M	Ground, oxygen sensor II	Heated oxygen sensor
40	M	Ground, oxygen sensor I	Heated oxygen sensor
41	E	Air mass meter signal	Hot film air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	M	Ground, crankshaft sensor	Crankshaft position/RPM sensor

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
44	M	Ground, camshaft sensor	Hall effect camshaft sensor
45		Not used	
46	A	Ti - measurement signal (fuel consumption)	Instrument cluster/On Board Computer
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	E	A/C compressor signal	Compressor control relay
49		Not used	
50	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
51	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
52	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
53		Not used	
54	E	Battery voltage	Engine control module (DME)
55	M	Ground, ignition	Ground
56	E	Voltage, terminal 15	Ignition switch
57		Not used	
58		Not used	
59	A	5V voltage supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	A/C signal	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch/Auxiliary VENT I
66	E	Drive away protection signal	Starter interlock module
67		Not used	
68	E	Knock sensor signal	Cyl. 5-6 knock sensor
69	E	Knock sensor signal	Cyl. 3-4 knock sensor
70	E	Knock sensor signal	Cyl. 1-2 knock sensor
71	M	Ground, knock sensors and shields	Knock sensors and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	
75		Not used	

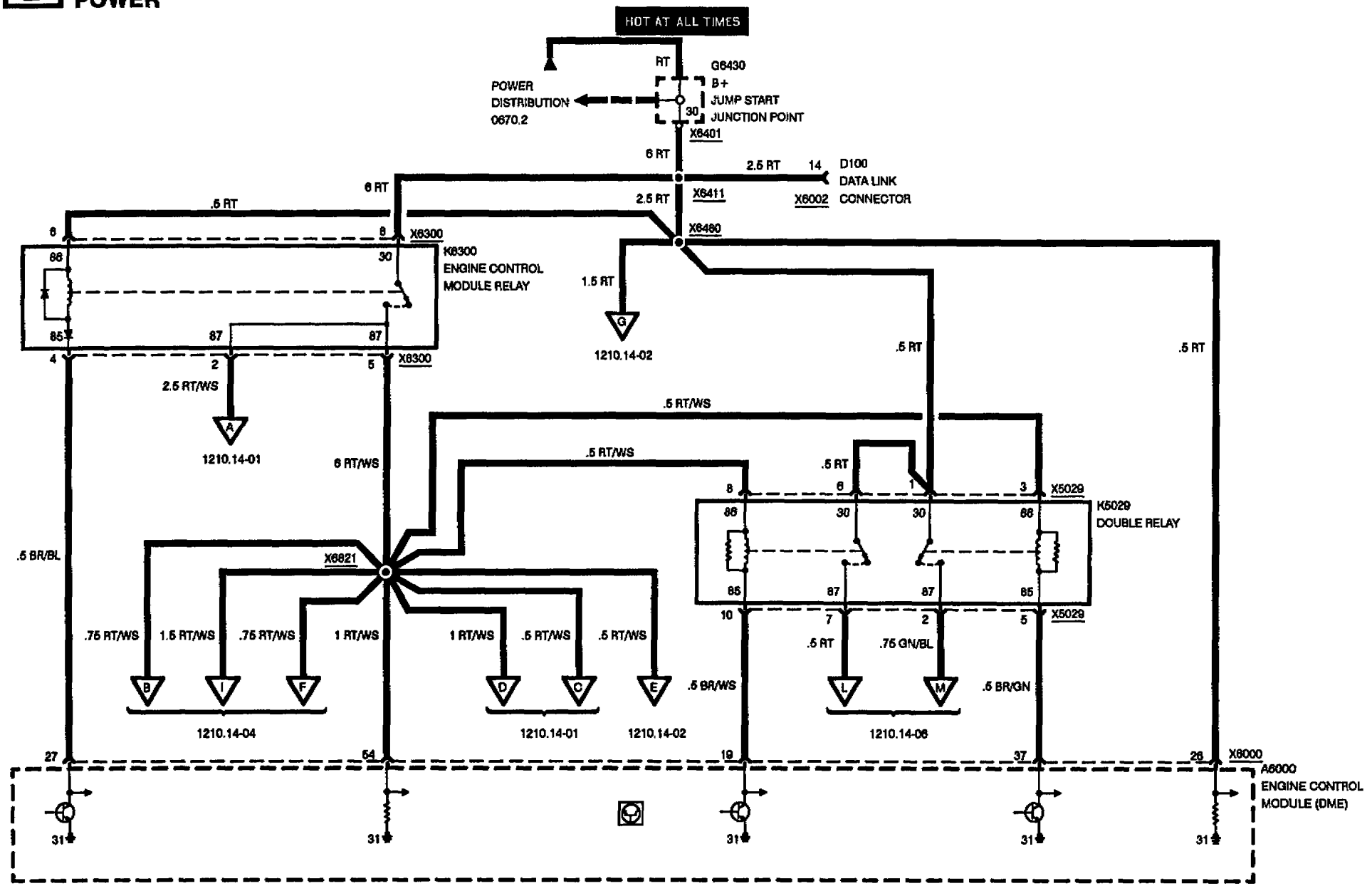
E = Input, A = Output, M = Ground



Pin Assignments

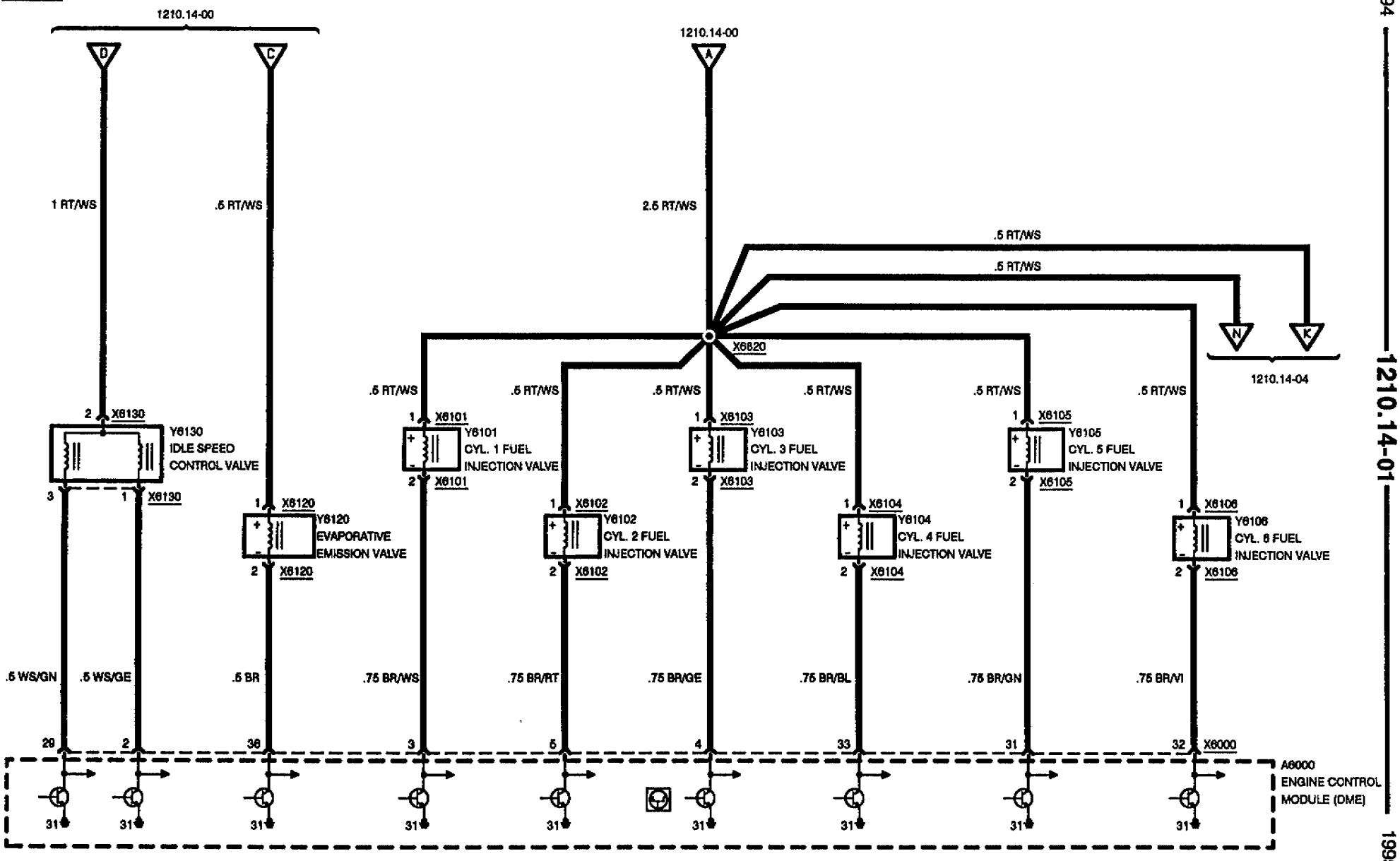
Pin	Type	Description/Function	Connection
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81		Not used	
82	E	Start revolution signal	Ignition switch
83		Not used	
84	M	Shield	Ground
85	E/A	CAN-Low signal	Variable camshaft control module
86	E/A	CAN-High signal	Variable camshaft control module
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground


HOT AT ALL TIMES
RT
G6430
B+
POWER DISTRIBUTION 0670.2
JUMP START
30
JUNCTION POINT
X6401
6 RT
2.5 RT
14
D100
DATA LINK
X6002
CONNECTOR
X6411
2.5 RT
6 RT
.5 RT
X6480
6
8
X6300
K6300
ENGINE CONTROL MODULE RELAY
86
30
85
87
87
4
2
5
X6300
1.5 RT
G
1210.14-02
.5 RT
.5 RT
2.5 RT/WS
A
1210.14-01
.5 RT/WS
.5 RT/WS
6 RT/WS
.5 RT
8
6
1
3
X5029
K5029
DOUBLE RELAY
86
30
30
86
85
87
87
85
10
7
2
5
X5029
.5 BR/BL
X6821
.75 RT/WS
1.5 RT/WS
.75 RT/WS
1 RT/WS
1 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT
.75 GN/BL
B
I
F
D
C
E
L
M
.5 BR/WS
.5 BR/GN
1210.14-04
1210.14-01
1210.14-02
1210.14-06
27
54
19
37
26
X6000
A6000
ENGINE CONTROL MODULE (DME)
31
31
31
31
31

ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

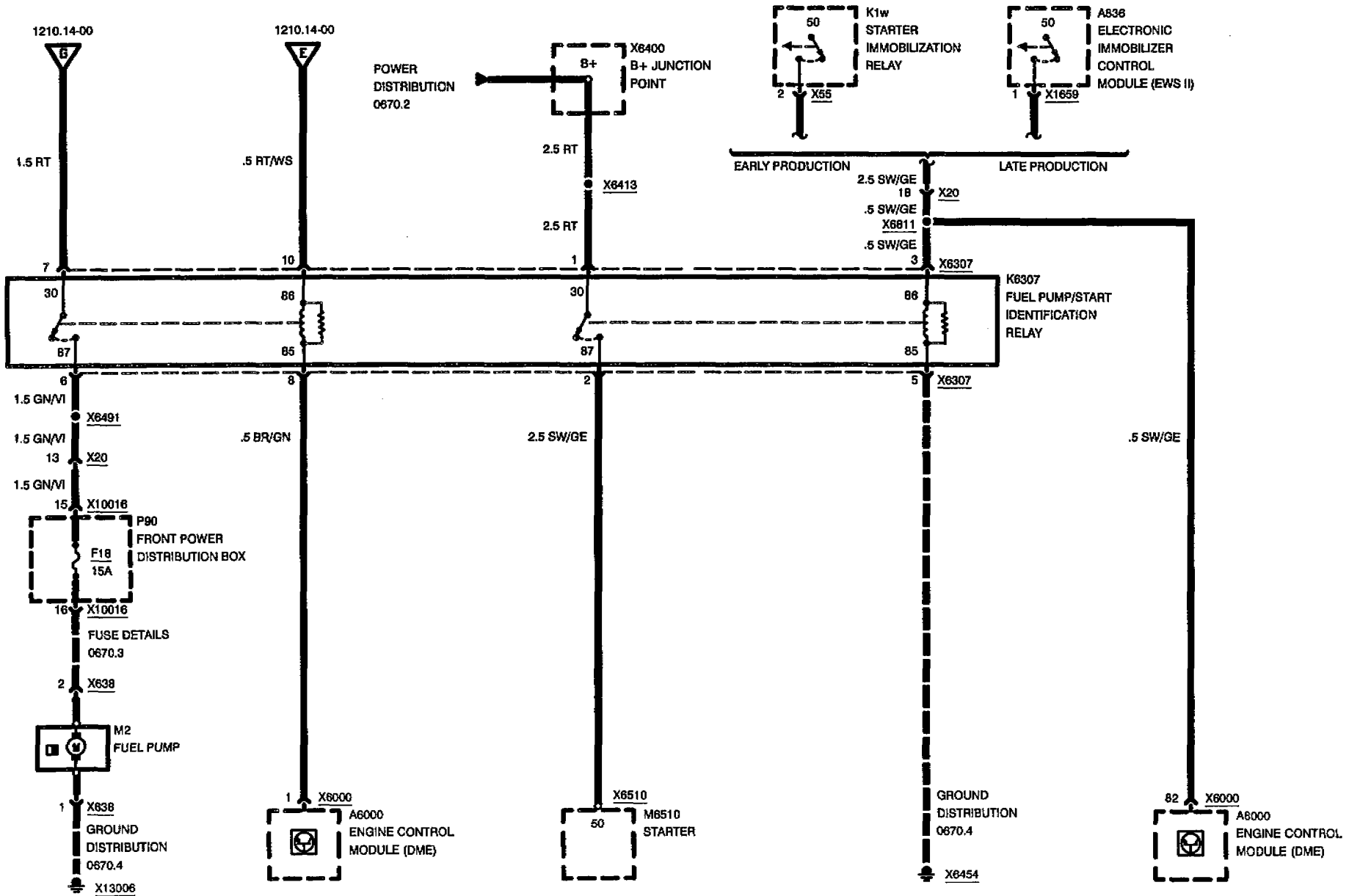
CDN



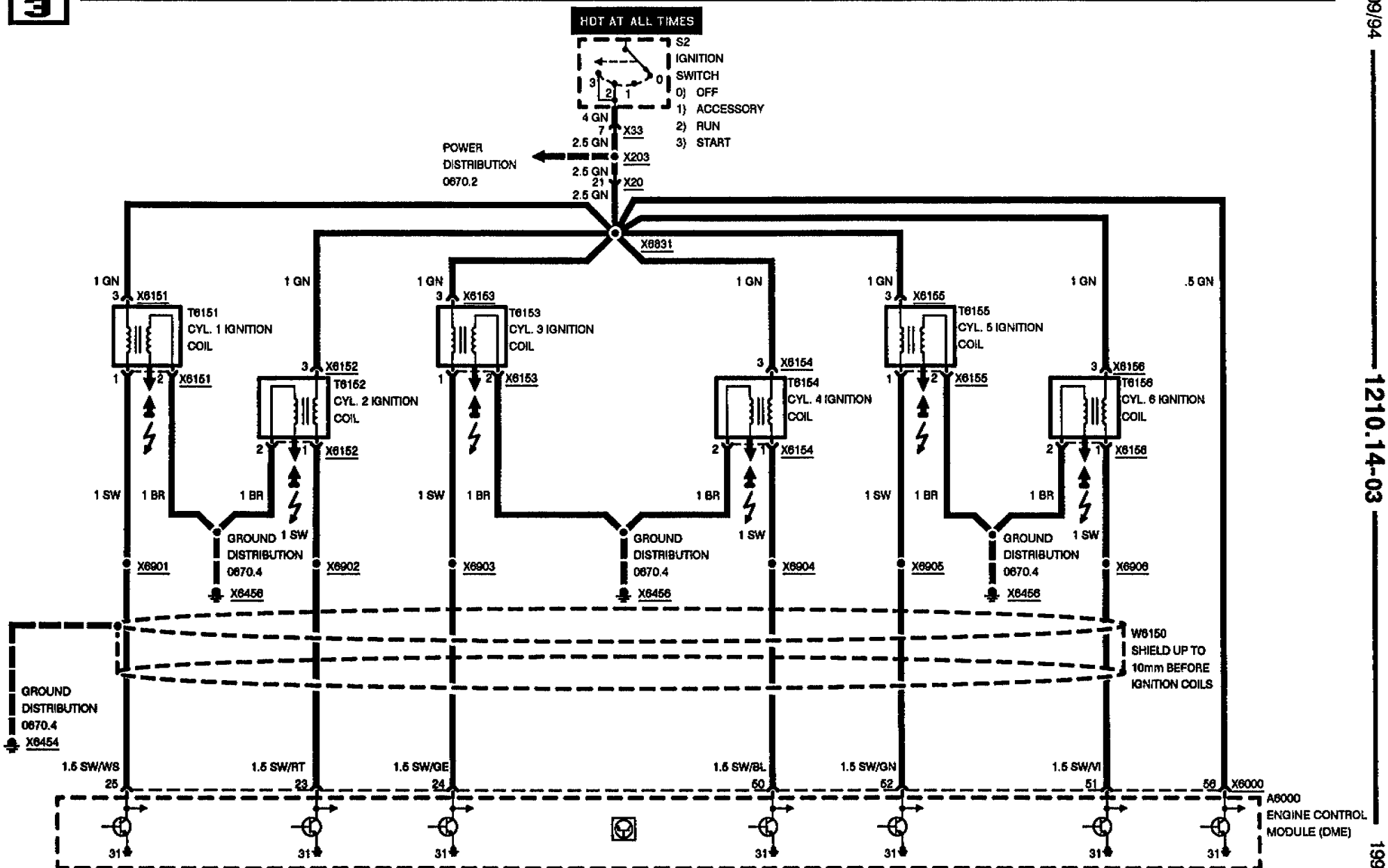
ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

CDN

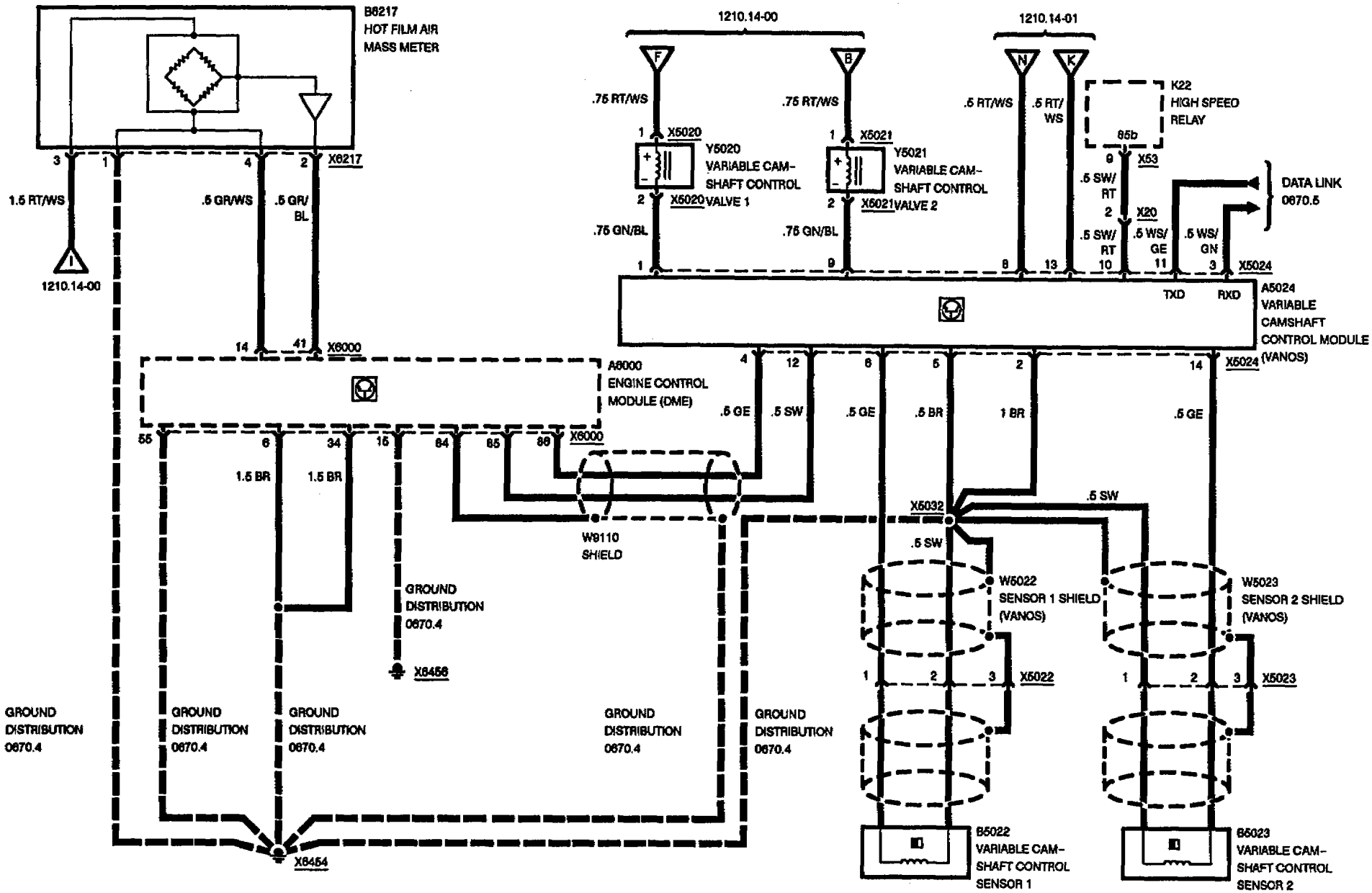
POWER

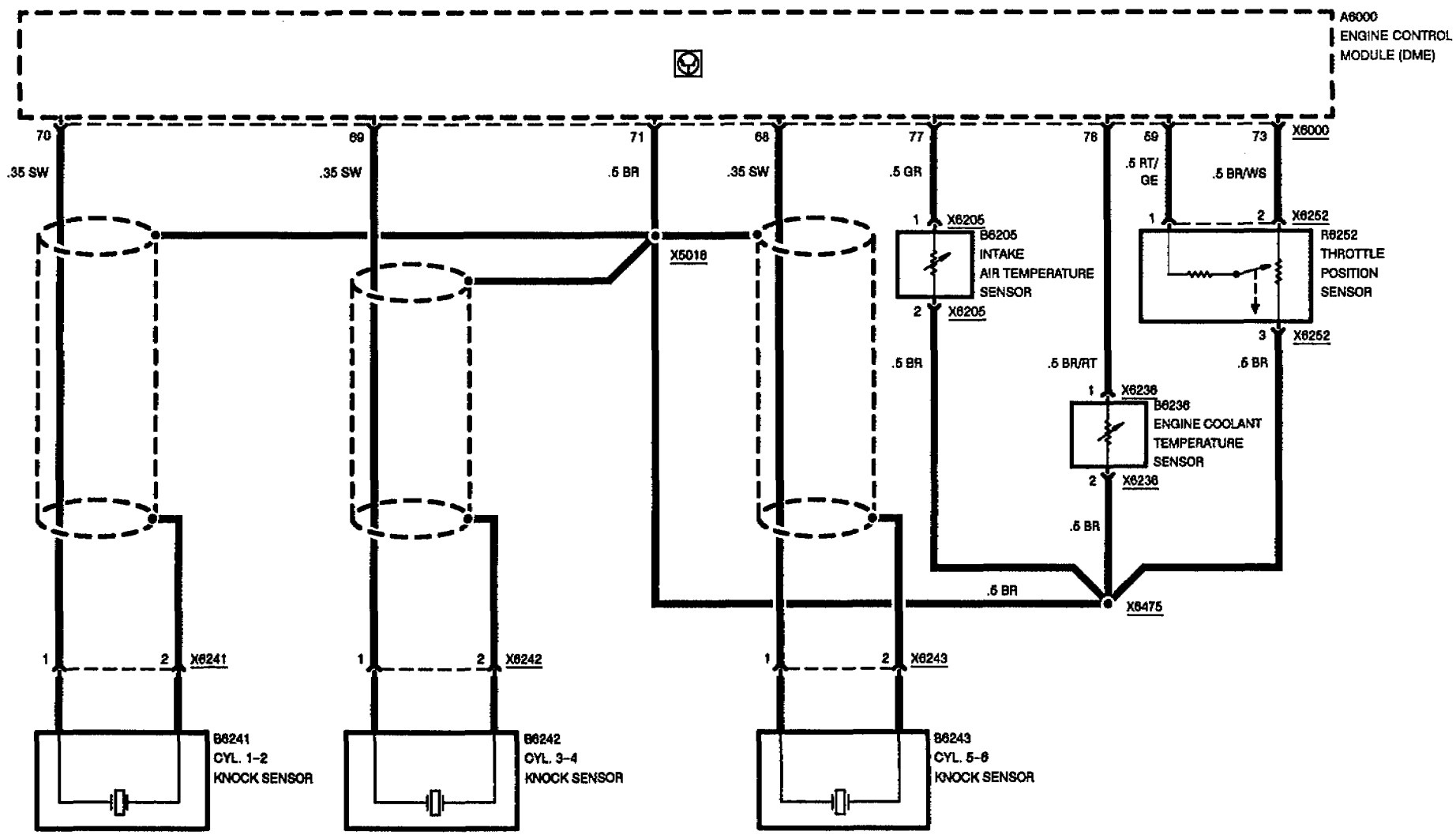


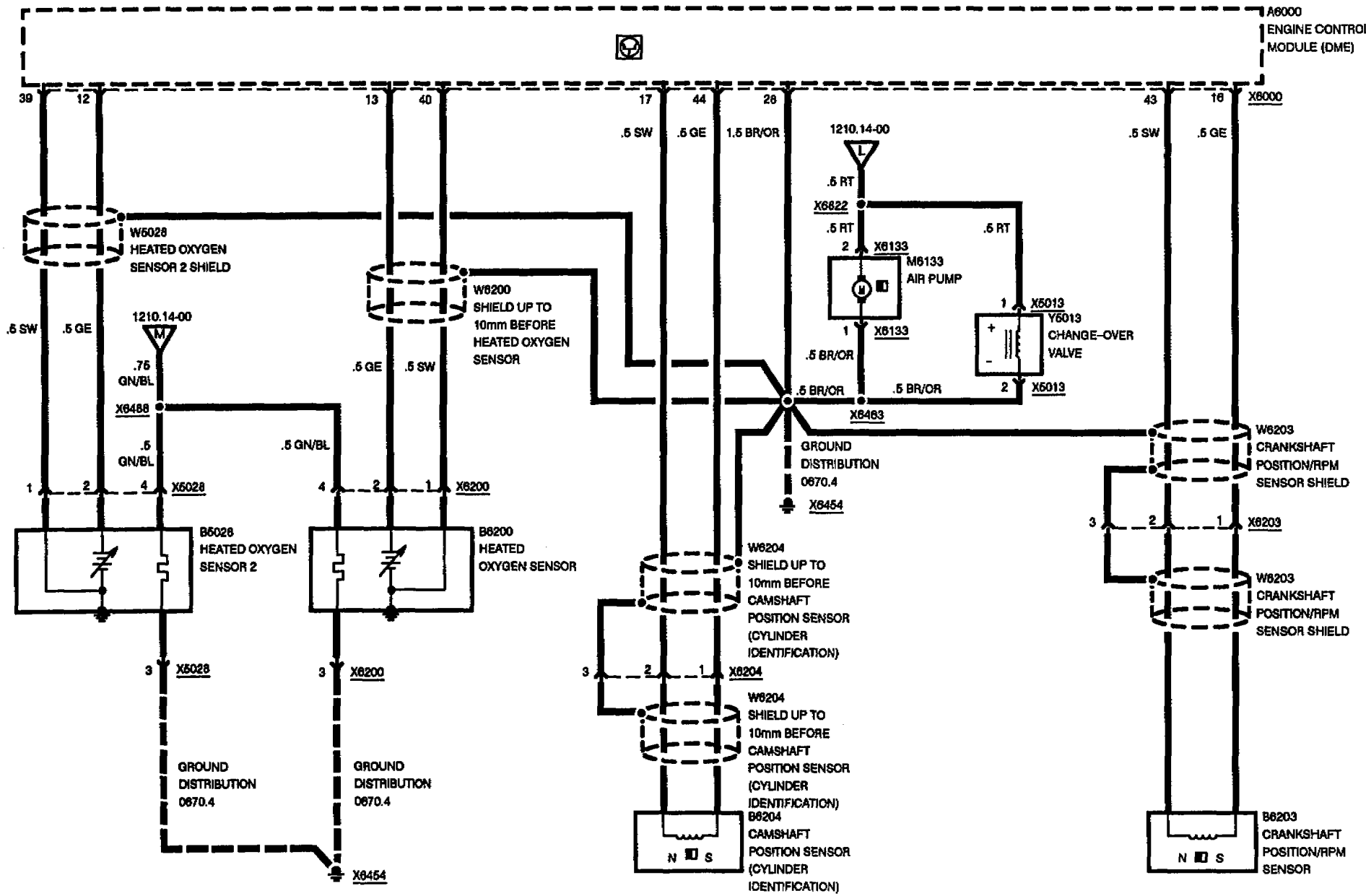
ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)



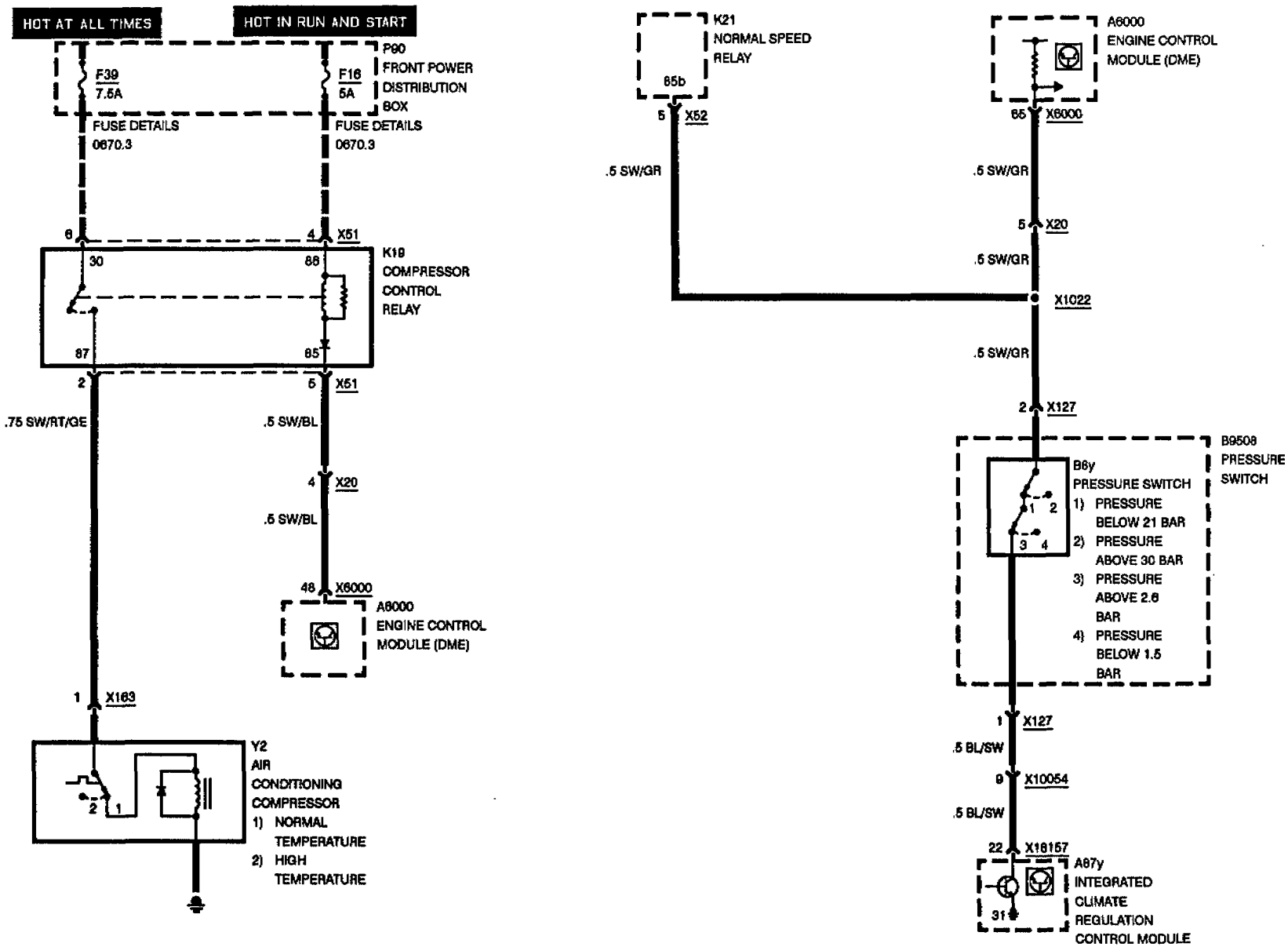
ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)




A6000
ENGINE CONTROL
MODULE (DME)
70
.35 SW
69
.35 SW
71
.5 BR
68
.35 SW
77
.5 GR
76
.5 RT/
GE
59
.5 BR/WS
73
X6000
X5018
1
X6205
B6205
INTAKE
AIR TEMPERATURE
SENSOR
2
X6205
.5 BR
1
2
X6252
R6252
THROTTLE
POSITION
SENSOR
3
X6252
.5 BR
.5 BR/RT
1
X6236
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
2
X6236
.5 BR
.5 BR
X6475
1
2
X6241
B6241
CYL. 1-2
KNOCK SENSOR
1
2
X6242
B6242
CYL. 3-4
KNOCK SENSOR
1
2
X6243
B6243
CYL. 5-6
KNOCK SENSOR

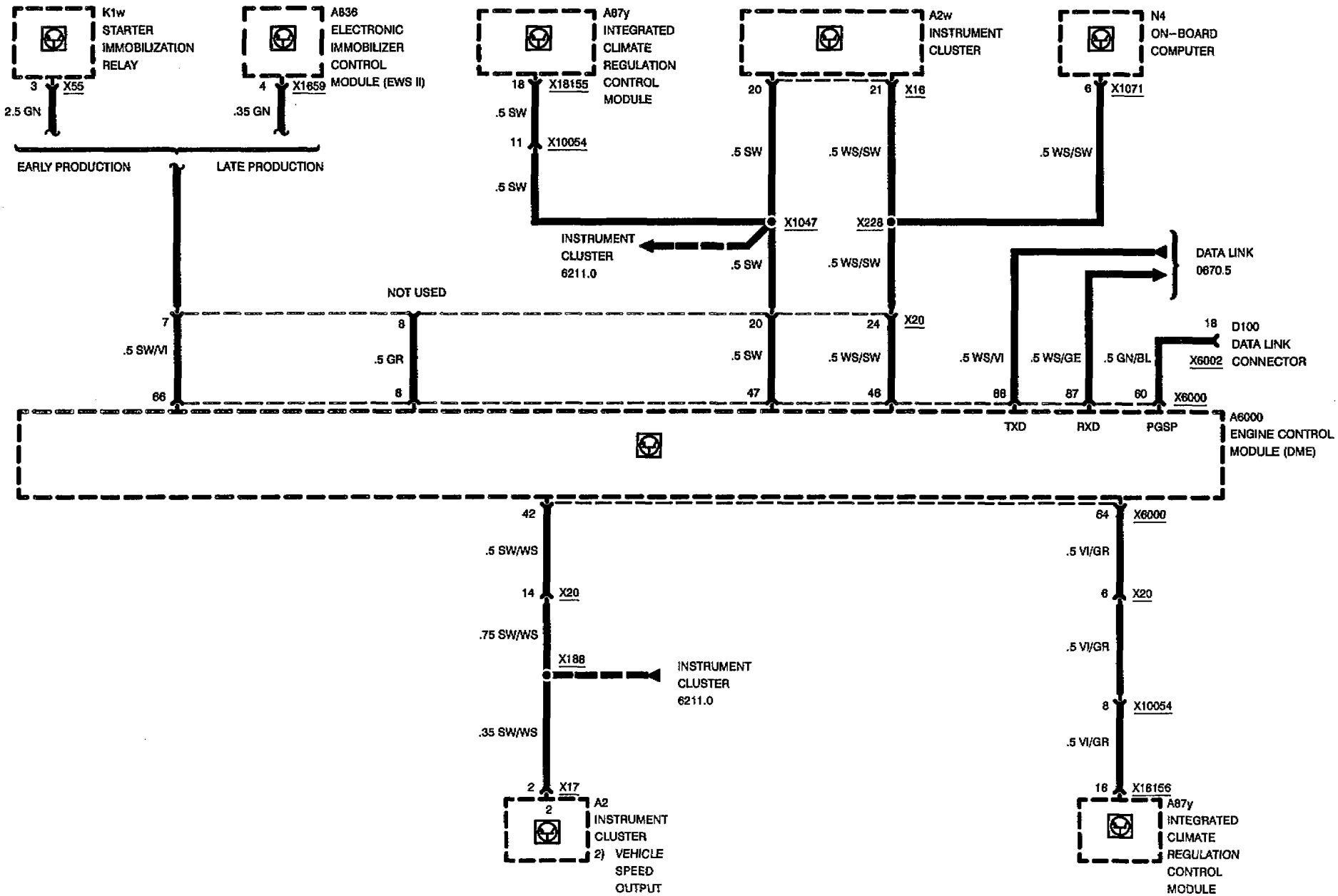

A6000
ENGINE CONTROL MODULE (DME)
X6000
39
12
13
40
17
44
28
43
16
.5 SW
.5 GE
1.5 BR/OR
W6028
HEATED OXYGEN SENSOR 2 SHIELD
W6200
SHIELD UP TO 10mm BEFORE HEATED OXYGEN SENSOR
1210.14-00
.75 GN/BL
X6488
.5 GN/BL
X5028
X6200
B6028
HEATED OXYGEN SENSOR 2
B6200
HEATED OXYGEN SENSOR
GROUND DISTRIBUTION 0670.4
X6454
1210.14-00
.5 RT
X6822
X6133
M6133
AIR PUMP
X5013
Y5013
CHANGE-OVER VALVE
.5 BR/OR
X6463
GROUND DISTRIBUTION 0670.4
X6454
W6204
SHIELD UP TO 10mm BEFORE CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
X6204
B6204
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
N
S
W6203
CRANKSHAFT POSITION/RPM SENSOR SHIELD
X6203
B6203
CRANKSHAFT POSITION/RPM SENSOR

ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

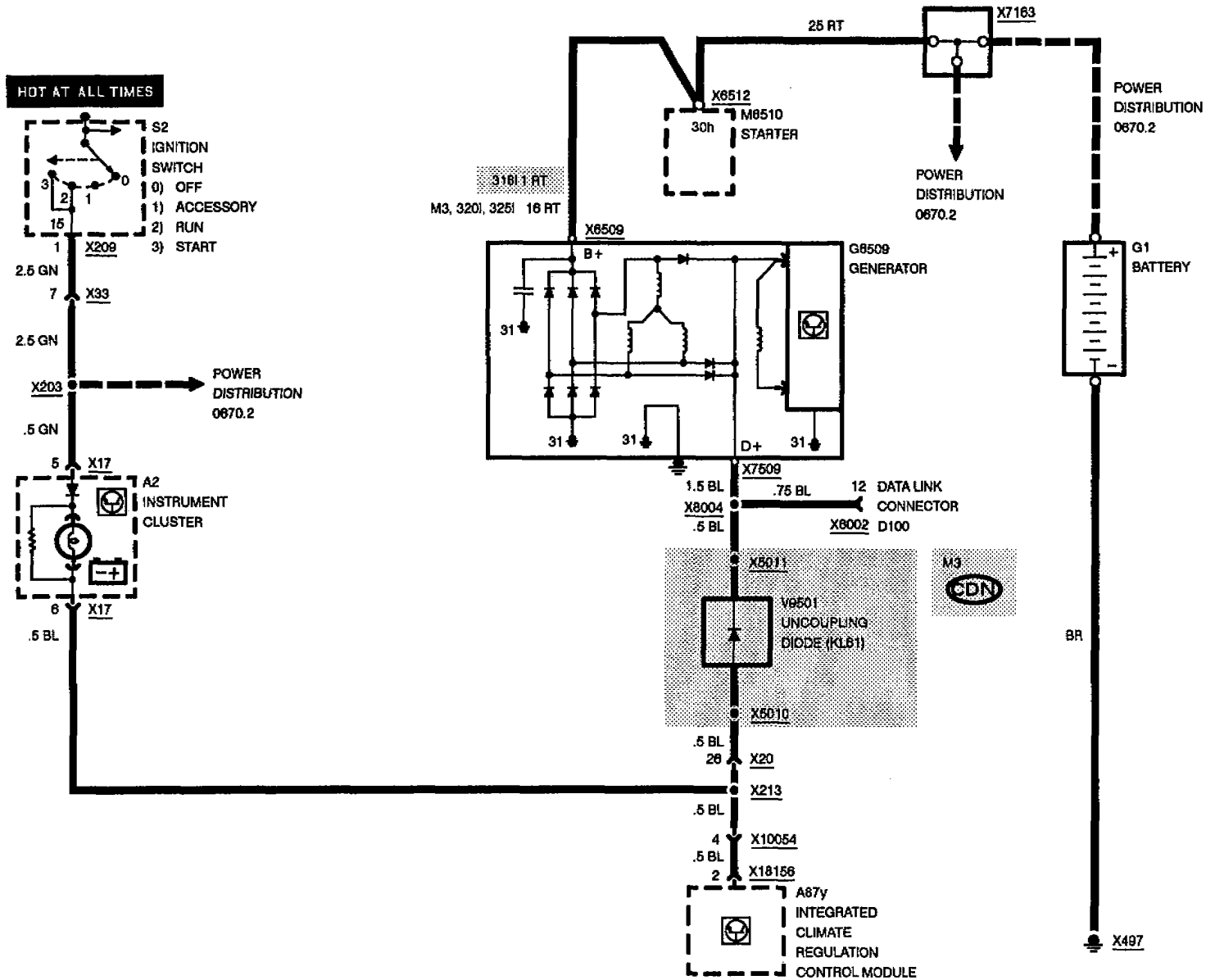


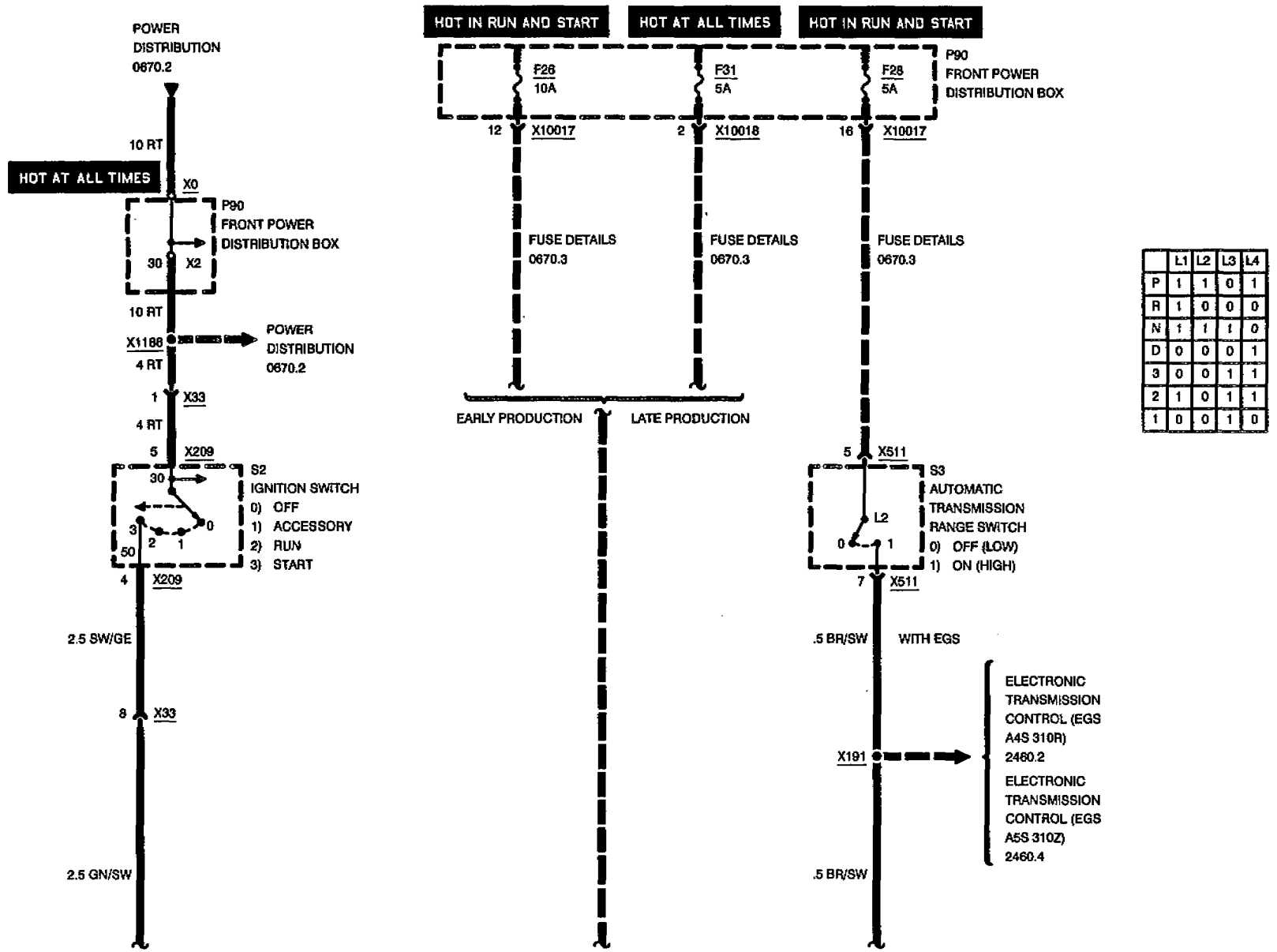
ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

CDN

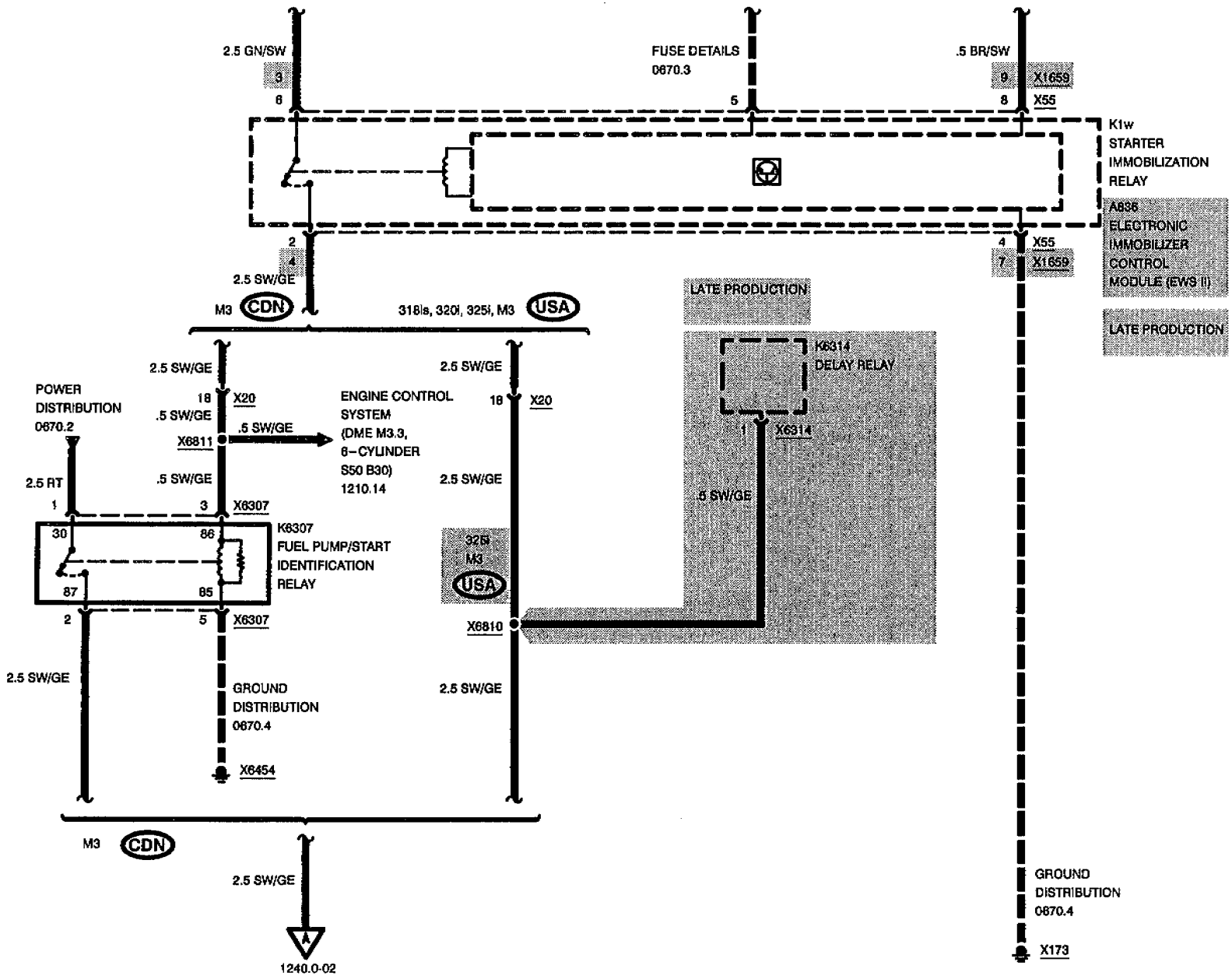


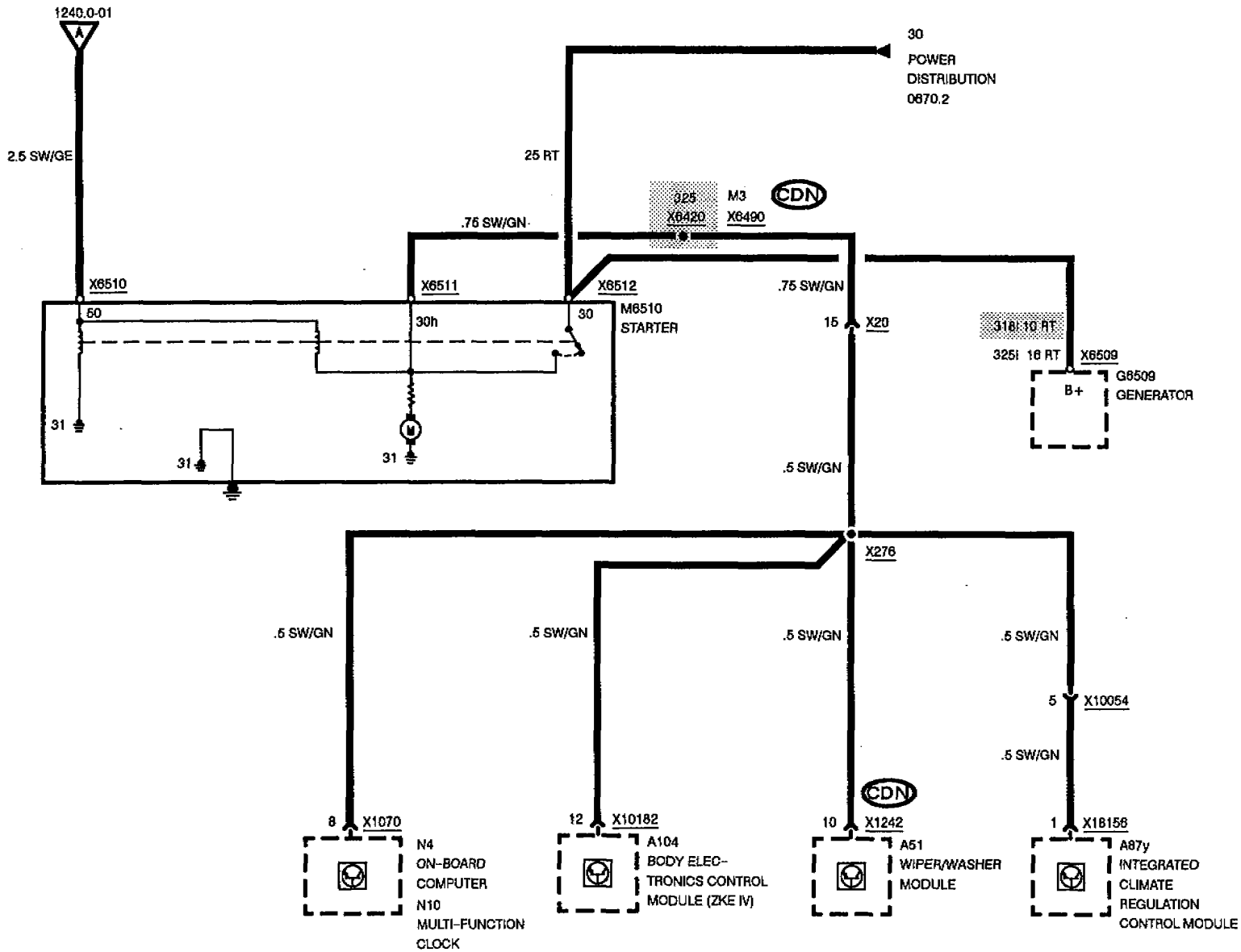
CHARGING SYSTEM



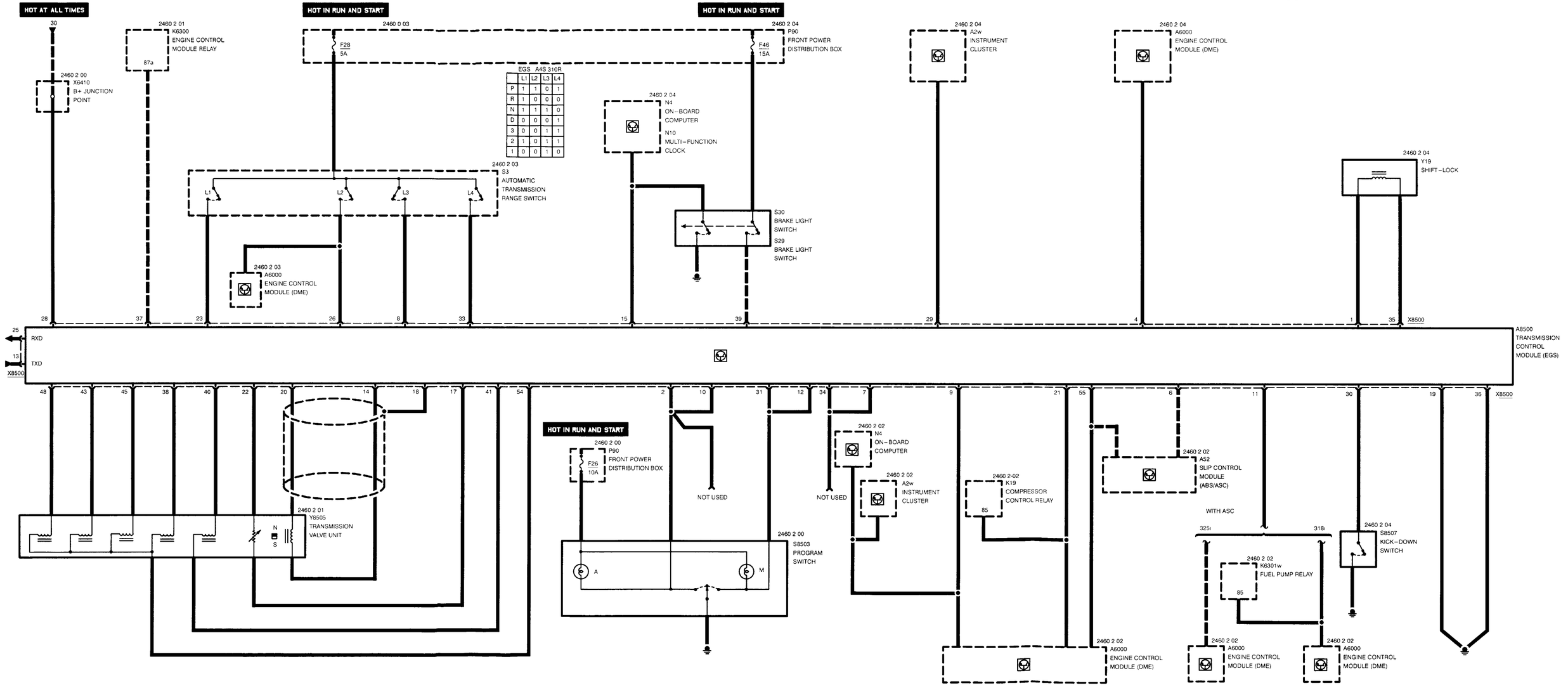


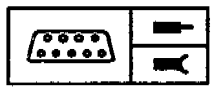
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0


2.5 GN/SW
3
6
FUSE DETAILS
0670.3
5
.5 BR/SW
9
X1659
8
X55
K1w
STARTER
IMMOBILIZATION
RELAY
A836
ELECTRONIC
IMMOBILIZER
CONTROL
MODULE (EWS II)
2
4
2.5 SW/GE
4
X55
7
X1659
LATE PRODUCTION
M3 CDN
318is, 320i, 325i, M3 USA
LATE PRODUCTION
K6314
DELAY RELAY
2.5 SW/GE
2.5 SW/GE
POWER
DISTRIBUTION
0670.2
18
X20
.5 SW/GE
ENGINE CONTROL
SYSTEM
(DME M3.3,
6-CYLINDER
S50 B30)
1210.14
18
X20
X6811
.5 SW/GE
1
X6314
.5 SW/GE
2.5 RT
1
.5 SW/GE
3
X6307
2.5 SW/GE
30
86
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
325i
M3
USA
87
85
2
5
X6307
X6810
2.5 SW/GE
GROUND
DISTRIBUTION
0670.4
2.5 SW/GE
X6454
M3 CDN
2.5 SW/GE
A
1240.0-02
GROUND
DISTRIBUTION
0670.4
X173


1240.0-01
2.5 SW/GE
25 RT
30
POWER
DISTRIBUTION
0870.2
.75 SW/GN
325
X6420
M3
X6490
CDN
X6510
X6511
X6512
.75 SW/GN
50
30h
30
M6510
STARTER
15
X20
318i 16 RT
325i 16 RT
X6509
G6509
GENERATOR
B+
31
31
31
.5 SW/GN
X276
.5 SW/GN
.5 SW/GN
.5 SW/GN
.5 SW/GN
5
X10054
.5 SW/GN
CDN
8
X1070
N4
ON-BOARD
COMPUTER
N10
MULTI-FUNCTION
CLOCK
12
X10182
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
10
X1242
A51
WIPER/WASHER
MODULE
1
X18156
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE

09/94 2460 2 1995
09/94 2460 2 1995



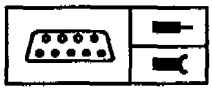


Pin Assignments

X8500

Pin	Type	Description/Function	Connection
1	A	Shift lock solenoid control	Shift lock
2	E	Automatic mode signal	Program switch
3		Not used	
4	A	Ignition timing intervention	Engine control module (DME)
5		Not used	
6	E	ASC signal	ABS/ASC control module
7	A	S-program indication	Not used
8	E	Gear range signal L3	Automatic transmission range switch
9	E	Ti measurement signal (fuel consumption)	Engine control module (DME)
10	A	A-program indication	Program switch
11	E	Cyl. 1-6 fuel pump relay control	Engine control module (DME)
12	A	M-program indication	Program switch
13	E/A	TxD diagnostic data link	Data link connector
14	E	Output speed (-)	Transmission valve unit
15	E	Brake switch test signal	Brake light switch
16		Not used	
17	E	Oil temperature signal (analog ground)	Transmission valve unit
18	A	Shield for speed sensor	Transmission valve unit shield
19	M	Ground, power	Ground point
20	E	Output speed (+)	Transmission valve unit
21	E	A/C compressor ON-signal	Engine control module (DME)
22	E	Oil temperature signal (+)	Transmission valve unit
23	E	Gear range signal L1	Automatic transmission range switch
24		Not used	
25	A	RxD diagnostic data link	Data link connector
26	E	Gear range signal L2	Automatic transmission range switch
27		Not used	
28	E	Battery voltage	B+ junction point
29	A	Fault indicator signal	Instrument cluster
30	E	Kick-down signal	Kick-down switch

E = Input, A = Output, M = Ground



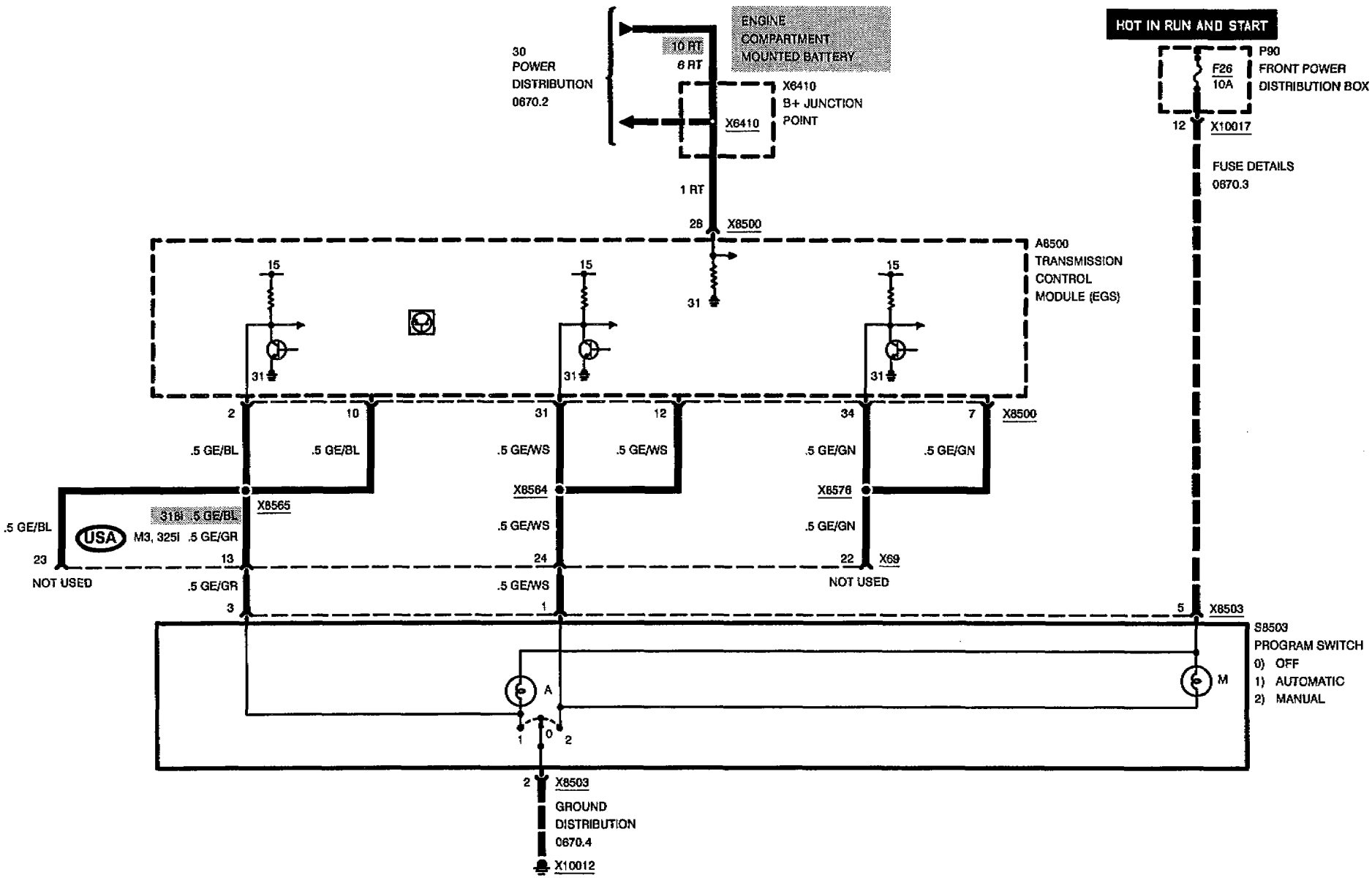
Pin Assignments

Pin	Type	Description/Function	Connection
31	E	Manual mode signal	Program switch
32		Not used	
33	E	Gear range signal L4	Automatic transmission range switch
34	E	S-program button	Not used
35	A	Ground, shift lock solenoid	Shift lock
36	M	Ground, electronic	Ground point
37	E	Voltage supply	Engine control module relay, terminal 87a
38	A	Torque converter clutch solenoid valve control	Transmission valve unit
39	E	Brake pedal position	Brake light switch
40	A	Hydraulic pressure regulator control (+)	Transmission valve unit
41	A	Hydraulic pressure regulator control (-)	Transmission valve unit
42		Not used	
43	A	Solenoid valve 2 control (+)	Transmission valve unit
44		Not used	
45	A	Band solenoid control (+)	Transmission valve unit
46		Not used	
47		Not used	
48	A	Solenoid valve 1 control (+)	Transmission valve unit
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	A	Solenoid valves ground control	Transmission valve unit
55	E	Throttle position signal	Engine control module (DME)

E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

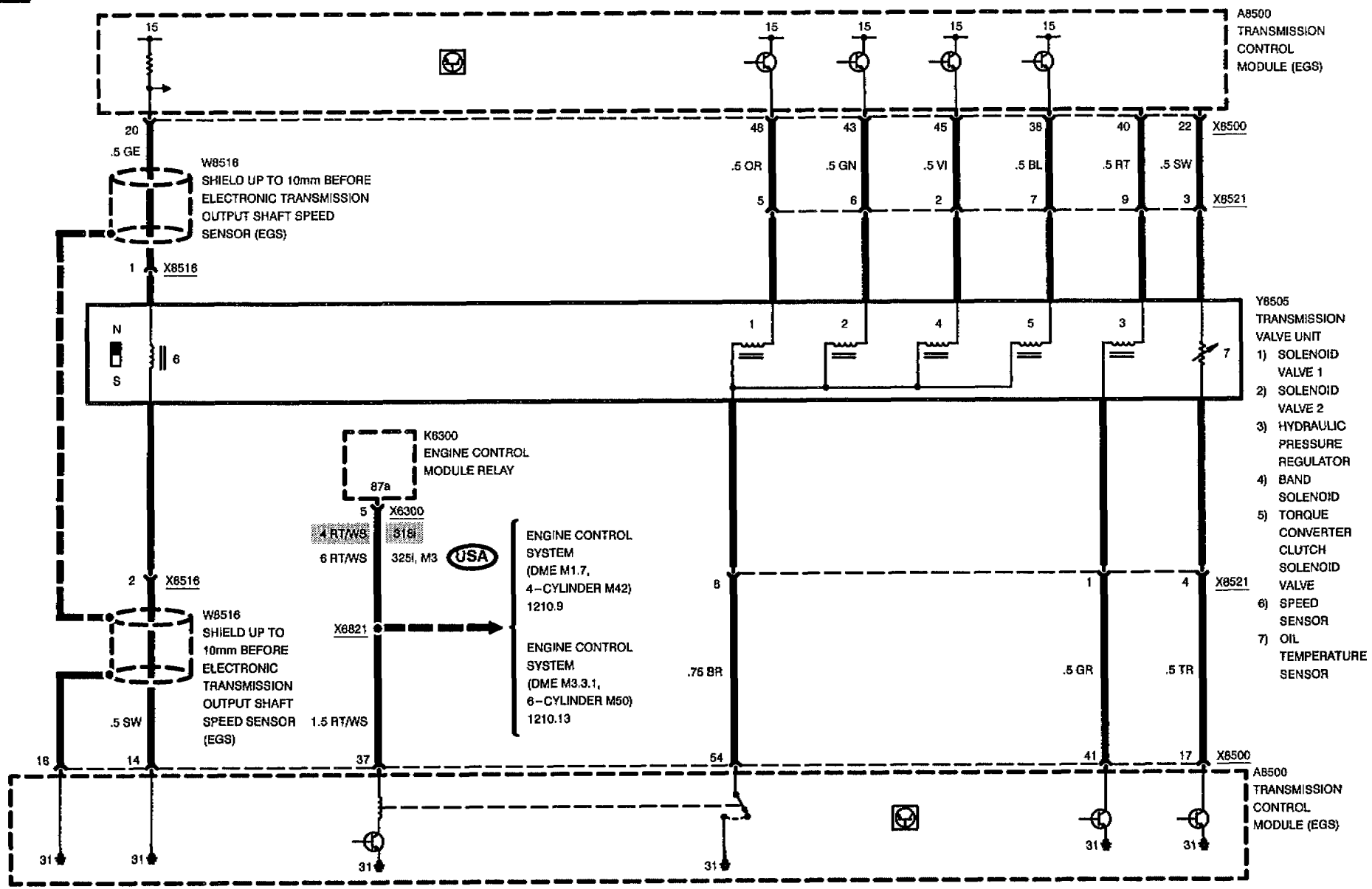
POWER, PROGRAM SWITCH



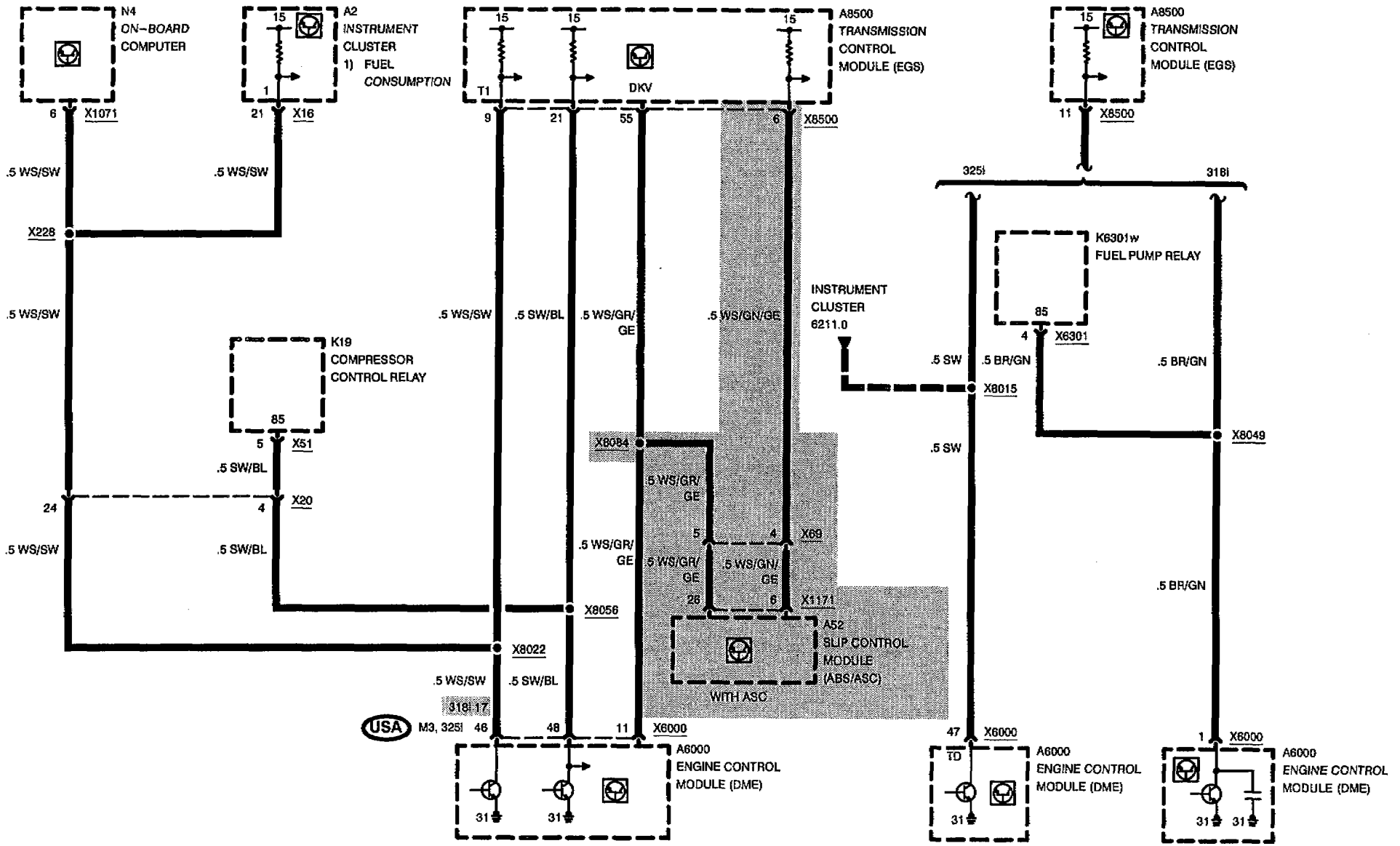
BMW 3

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR VALVE UNIT

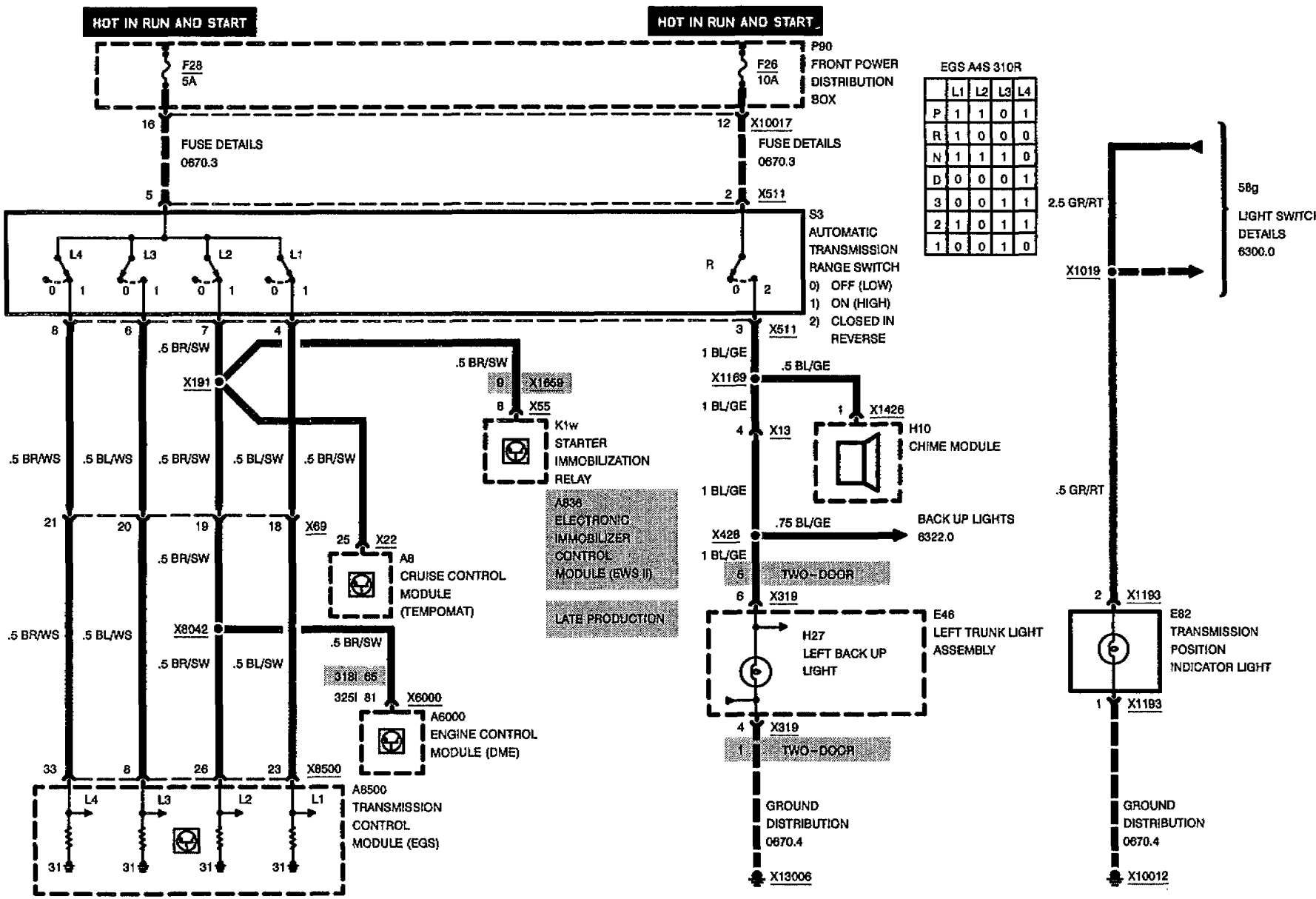


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



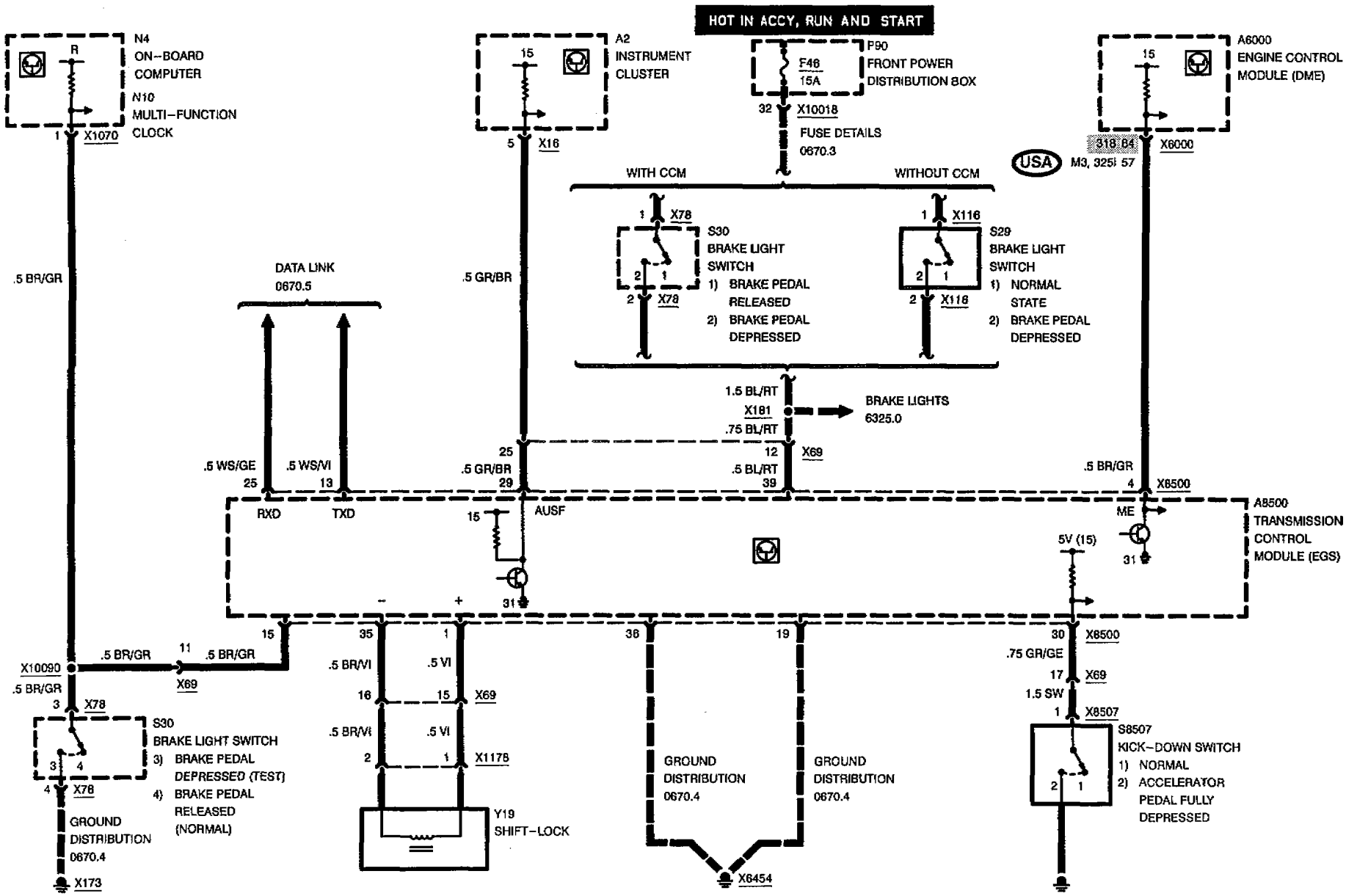
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR SELECTOR SWITCH

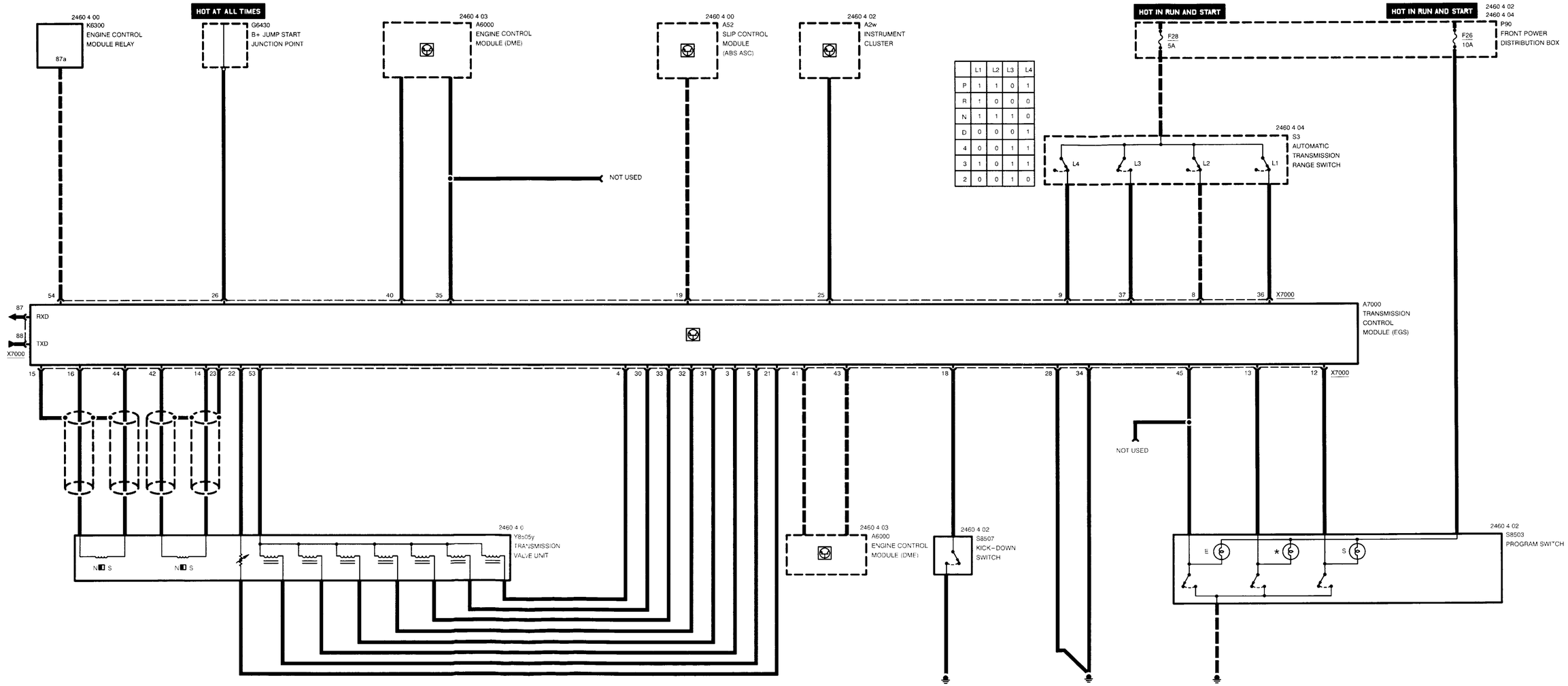


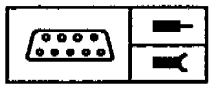
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH



09/94 2460 4 1995
09/94 2460 4 1995



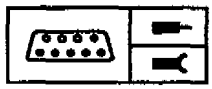


Pin Assignments

X7000

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3	A	Solenoid valve 5	Transmission valve unit
4	A	Torque converter clutch solenoid valve	Transmission valve unit
5	A	Hydraulic pressure regulator	Transmission valve unit
6		Not used	
7		Not used	
8		Gear range signal L2	Automatic transmission range switch
9		Gear range signal L4	Automatic transmission range switch
10		Not used	
11		Not used	
12	E	S-program indication	Program switch
13	E	*-program indication	Program switch
14	E	Speed sensor	Transmission valve unit
15	M	Shield speed sensor	Shield
16	A	Speed sensor n-turbine	Transmission valve unit
17		Not used	
18	E	Kick-down-signal	Kick-down-switch
19	E	ABS signal	ABS/ASC control module
20		Not used	
21	M	Ground oil temperature sensor	Transmission valve unit
22	E	Oil temperature sensor	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	Jump start junction point
27		Not used	
28	M	Ground, electronics	Ground
29		Not used	
30	A	Solenoid valve 1	Transmission valve unit

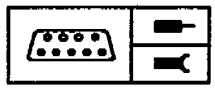
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Solenoid valve 4	Transmission valve unit
32	A	Solenoid valve 3	Transmission valve unit
33	A	Solenoid valve 2	Transmission valve unit
34	M	Ground	Ground
35	E	DKT-interface	Engine control module (DME)
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40	A	Ignition timing intervention	Engine control module (DME)
41	E	Ti - measurement signal (fuel consumption)	Engine control module (DME)
42	A	Speed sensor n - ab (+)	Transmission valve unit
43	E	Crankshaft RPM speed signal TD	Engine control module (DME)
44	E	Speed sensor n-turbine	Transmission valve unit
45	E	E-program indication	Program switch
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53	A	Voltage supply for solenoid valves	Transmission valve unit
54	E	Voltage supply	DME-relay
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	
62		Not used	

E = Input, A = Output, M = Ground

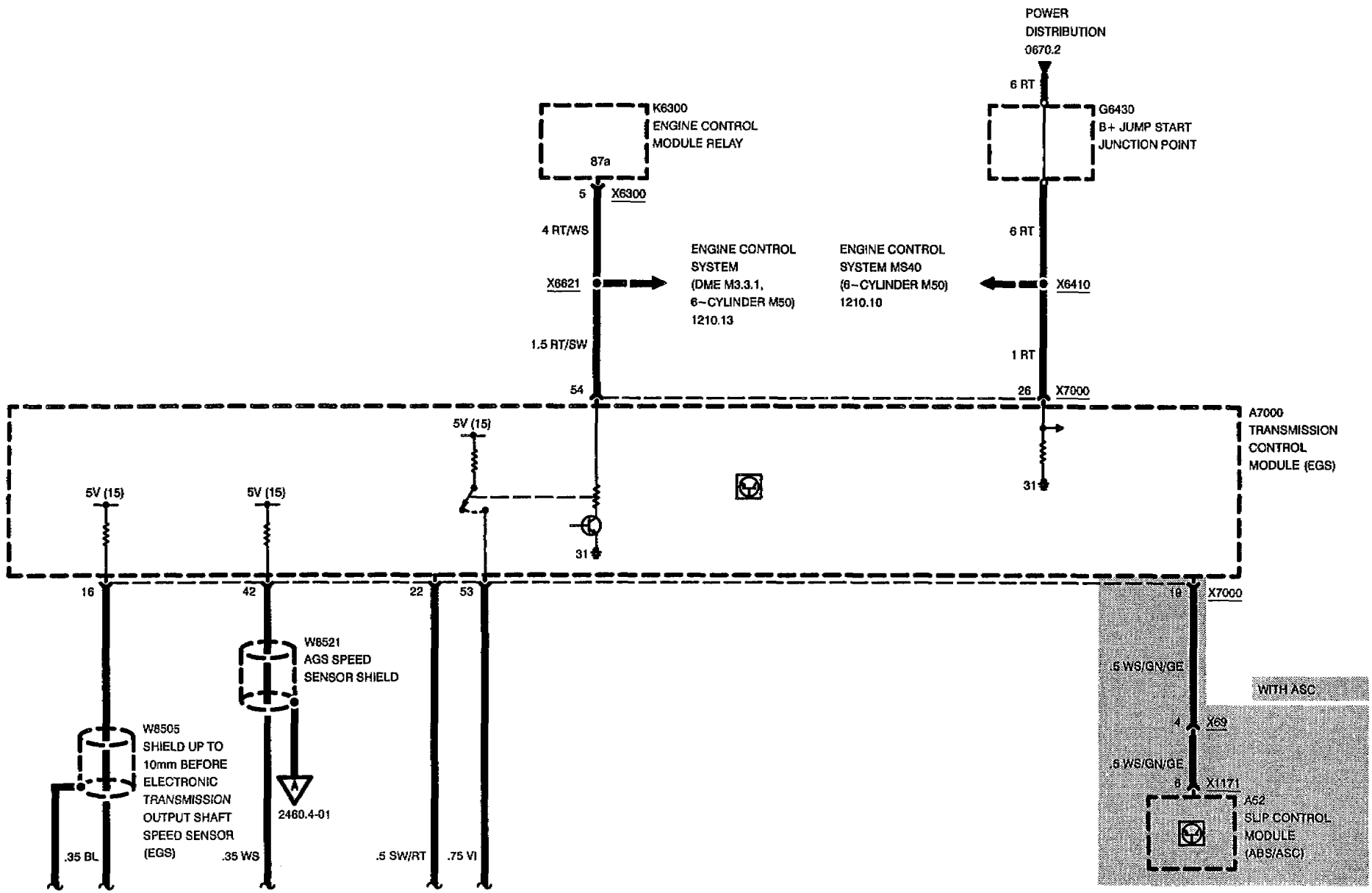


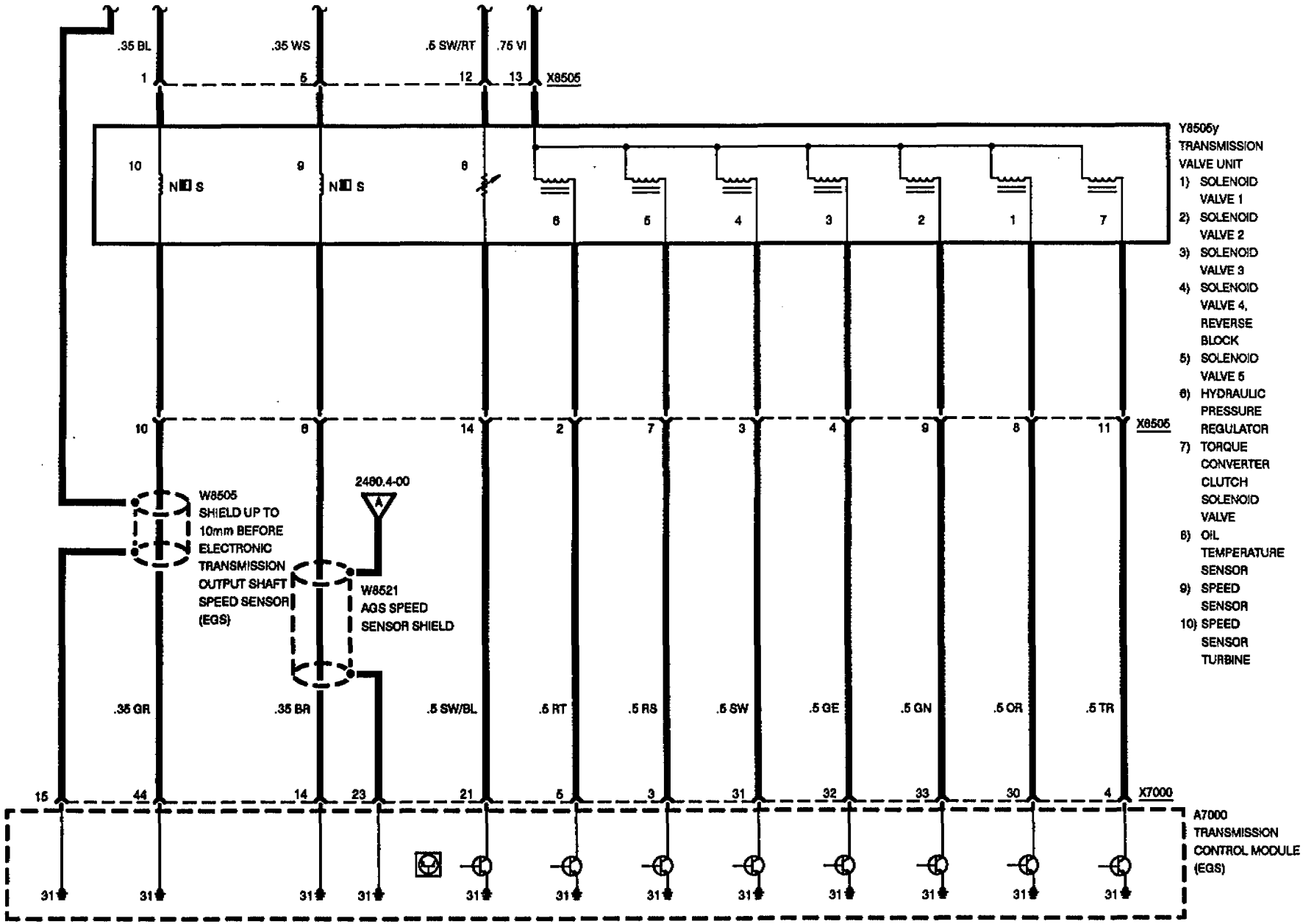
Pin Assignments

Pin	Type	Description/Function	Connection
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

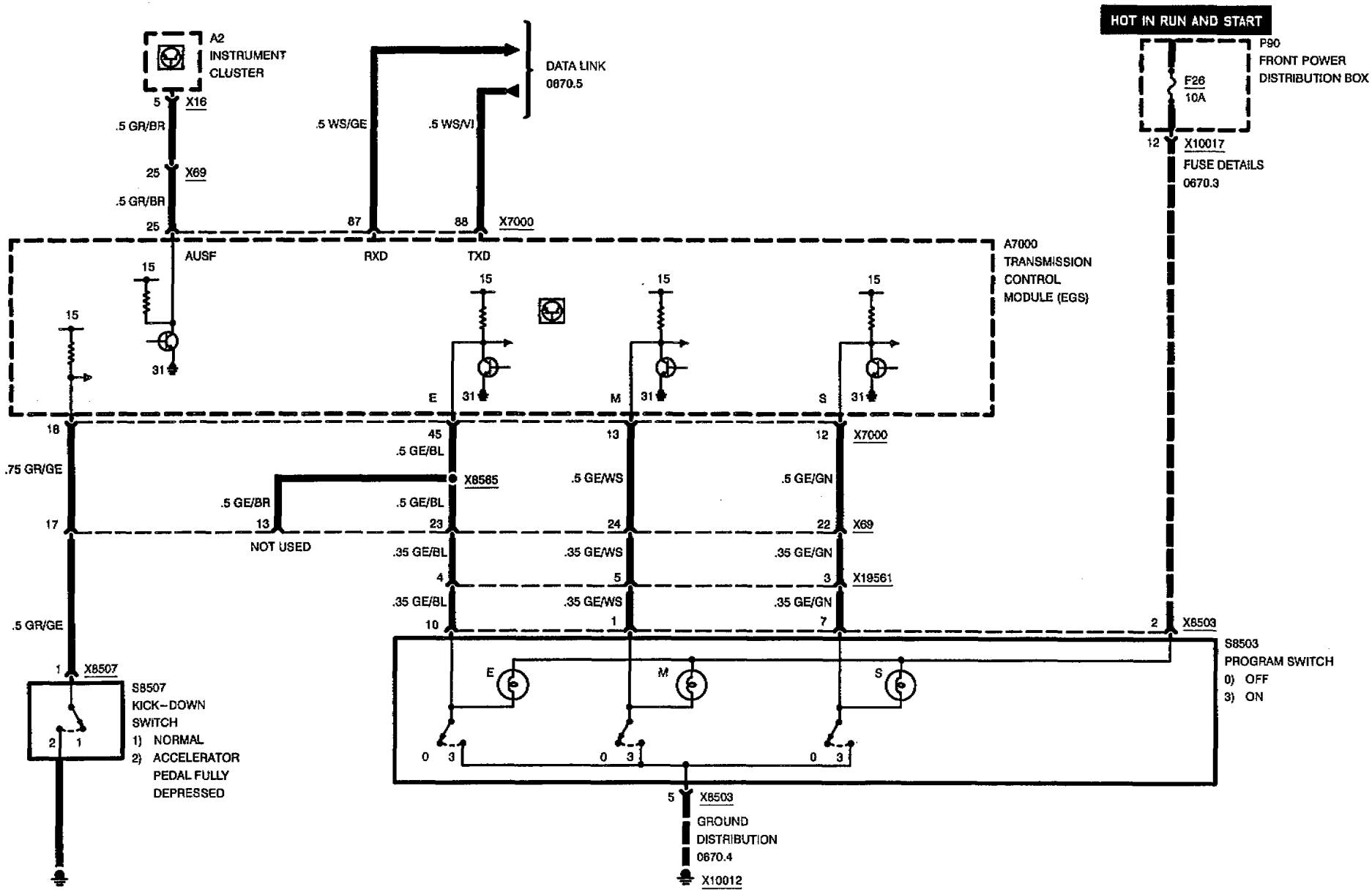
E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

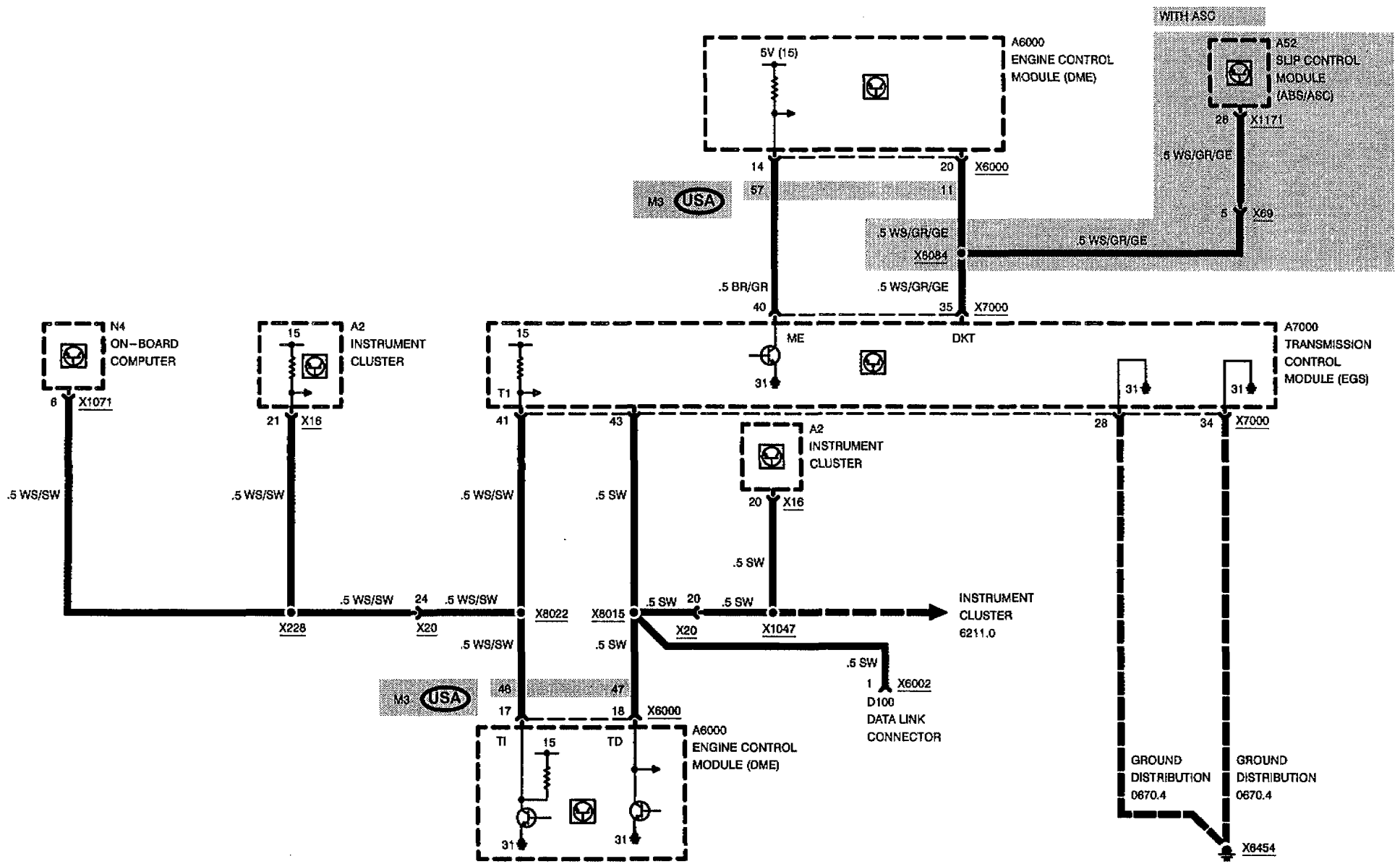



.35 BL
.35 WS
.5 SW/RT
.75 VI
X8505
Y8505y
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
4) SOLENOID VALVE 4, REVERSE BLOCK
5) SOLENOID VALVE 5
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
10) SPEED SENSOR TURBINE
W8505
SHIELD UP TO 10mm BEFORE ELECTRONIC TRANSMISSION OUTPUT SHAFT SPEED SENSOR (EGS)
2460.4-00
W8521
AGS SPEED SENSOR SHIELD
.35 GR
.35 BR
.5 SW/BL
.5 RT
.5 RS
.5 SW
.5 GE
.5 GN
.5 OR
.5 TR
X7000
A7000
TRANSMISSION CONTROL MODULE (EGS)

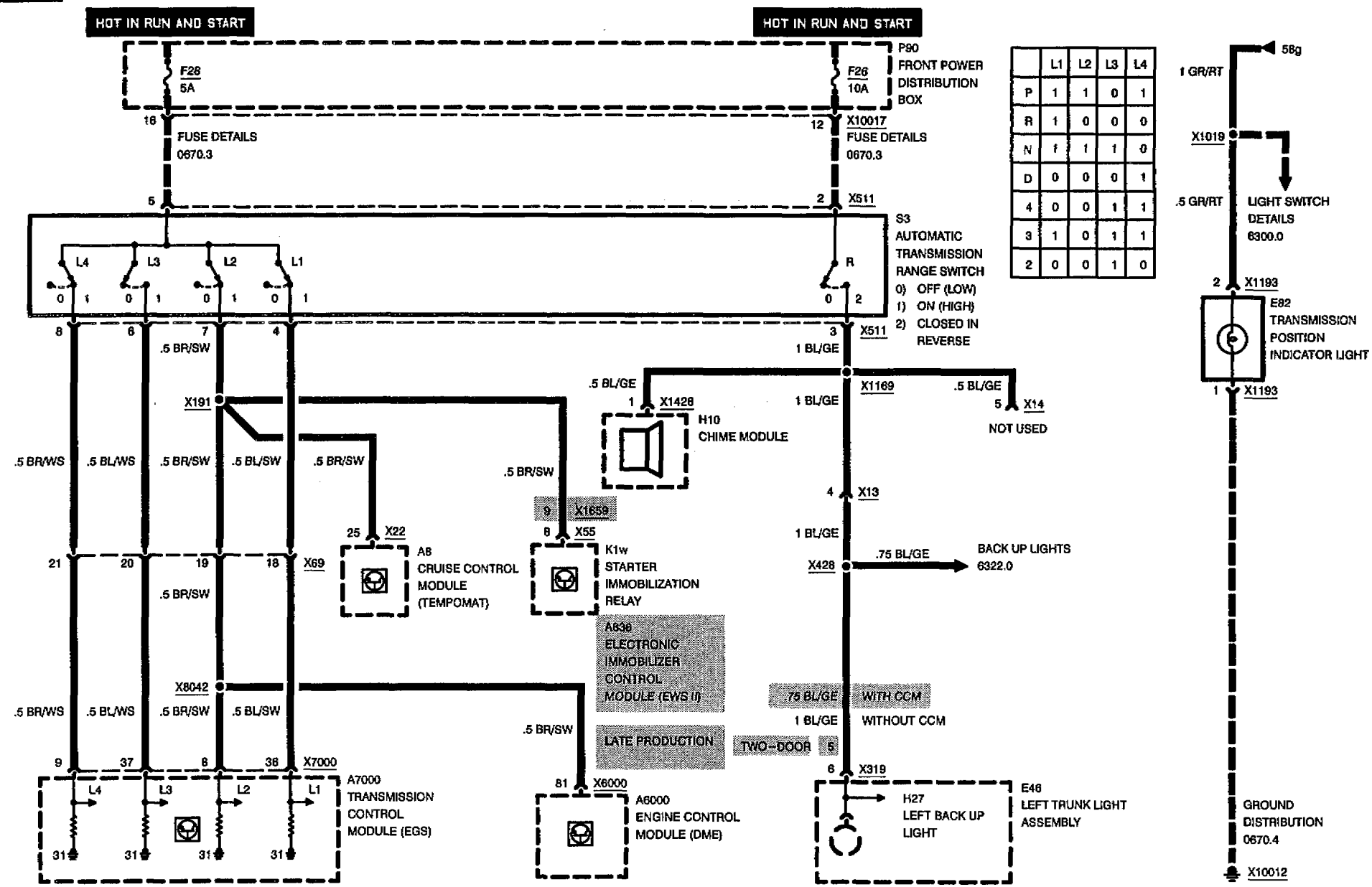
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

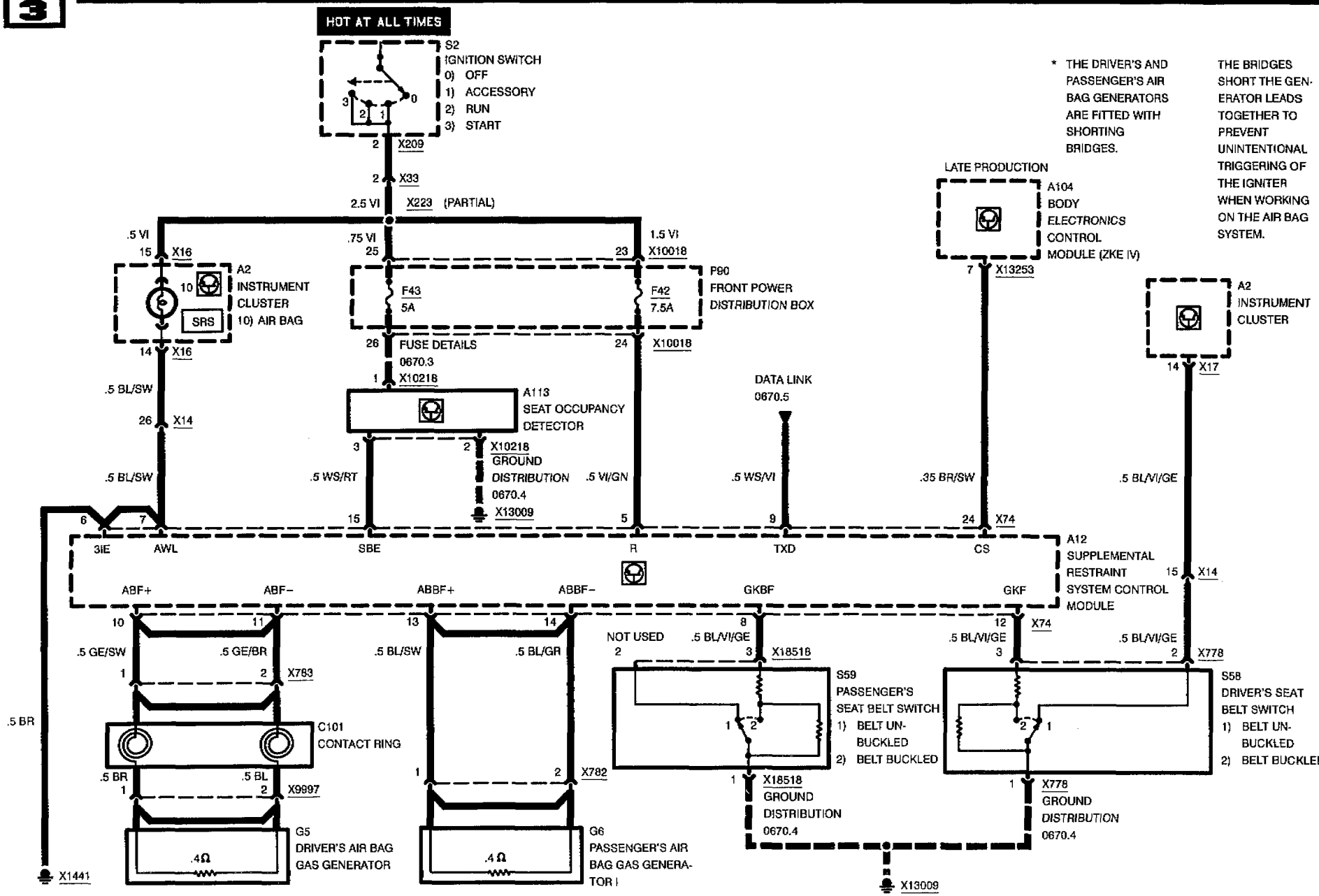


ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

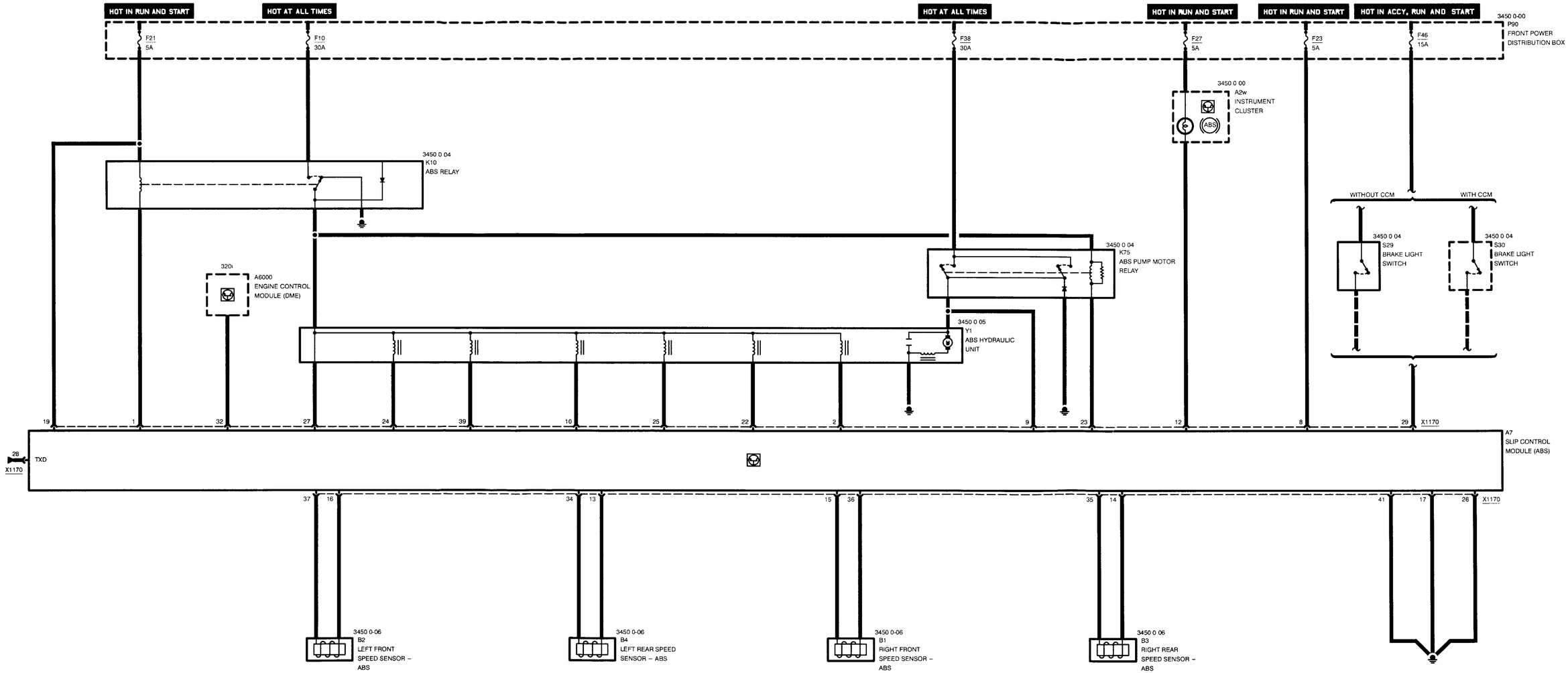


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



09/94 3450 0a 1995
09/94 3450 0a 1995

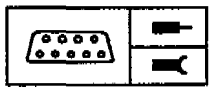


Pin Assignments

X11

Pin	Type	Description/Function	Connection
1	M	Ground, control module	Chassis ground
2	M	Ground, control module	ABS hydraulic unit solenoid valve, FL
3	E	Voltage monitoring	ABS hydraulic unit
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	
13		Not used	
14		Not used	
15	A	ABS pump motor relay control	ABS pump motor relay
16	E	ABS pedal travel sensor	ABS pedal travel sensor
17		Not used	
18		Not used	
19	M	Ground, control module	Chassis ground
20	A	Left front inlet valve control	ABS hydraulic unit
21	A	Right front outlet valve control	ABS hydraulic unit
22		Not used	
23	A	RxD diagnostic data link	Data link connector
24		Not used	
25		Not used	
26		Not used	
27	A	Speed sensor ground, RR	Right rear speed sensor - ABS
28	A	Speed sensor ground, RL	Left rear speed sensor - ABS
29	A	Speed sensor ground, FR	Right front speed sensor - ABS
30	A	Speed sensor ground, FL	Left front speed sensor - ABS

E = Input, A = Output, M = Ground



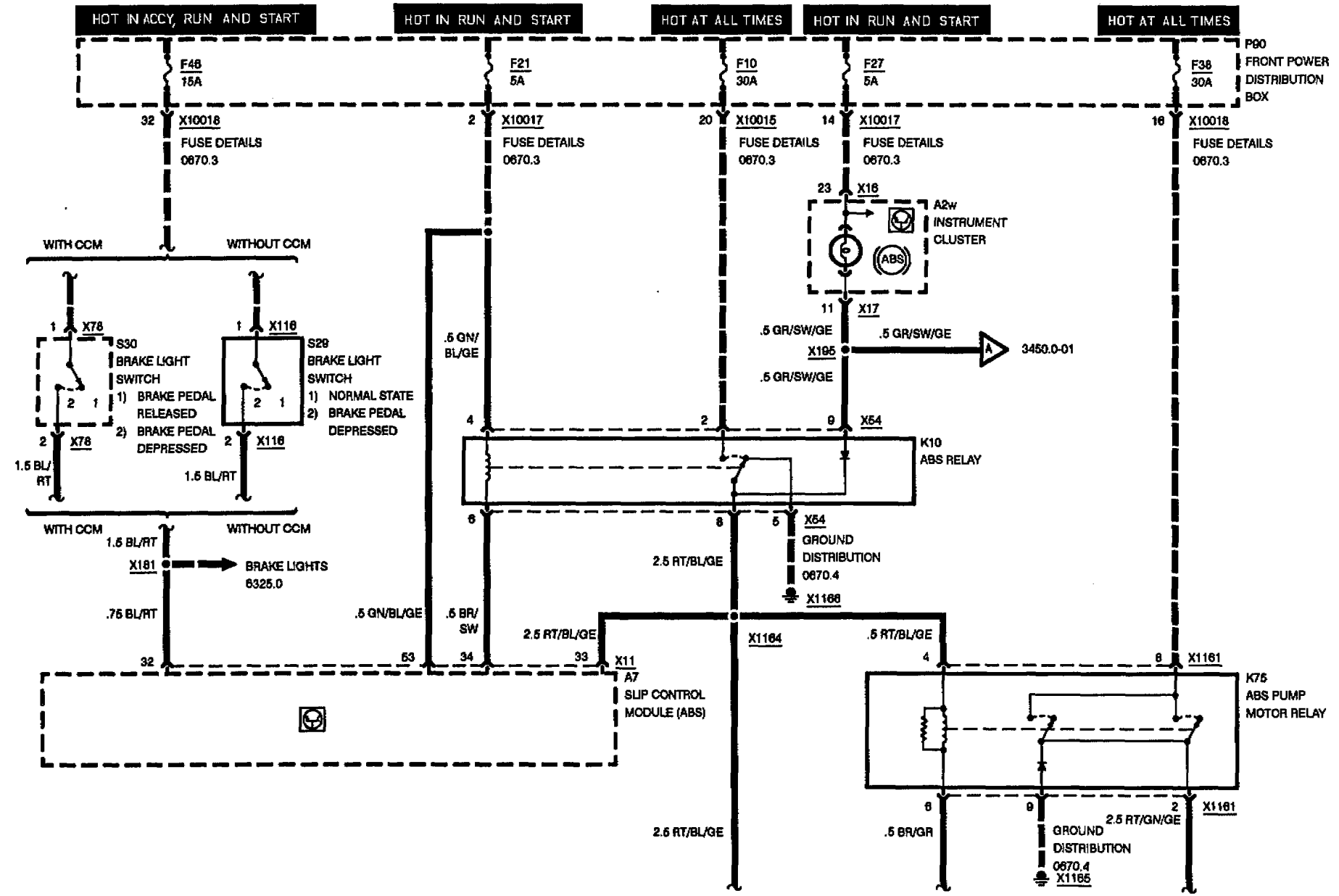
Pin Assignments

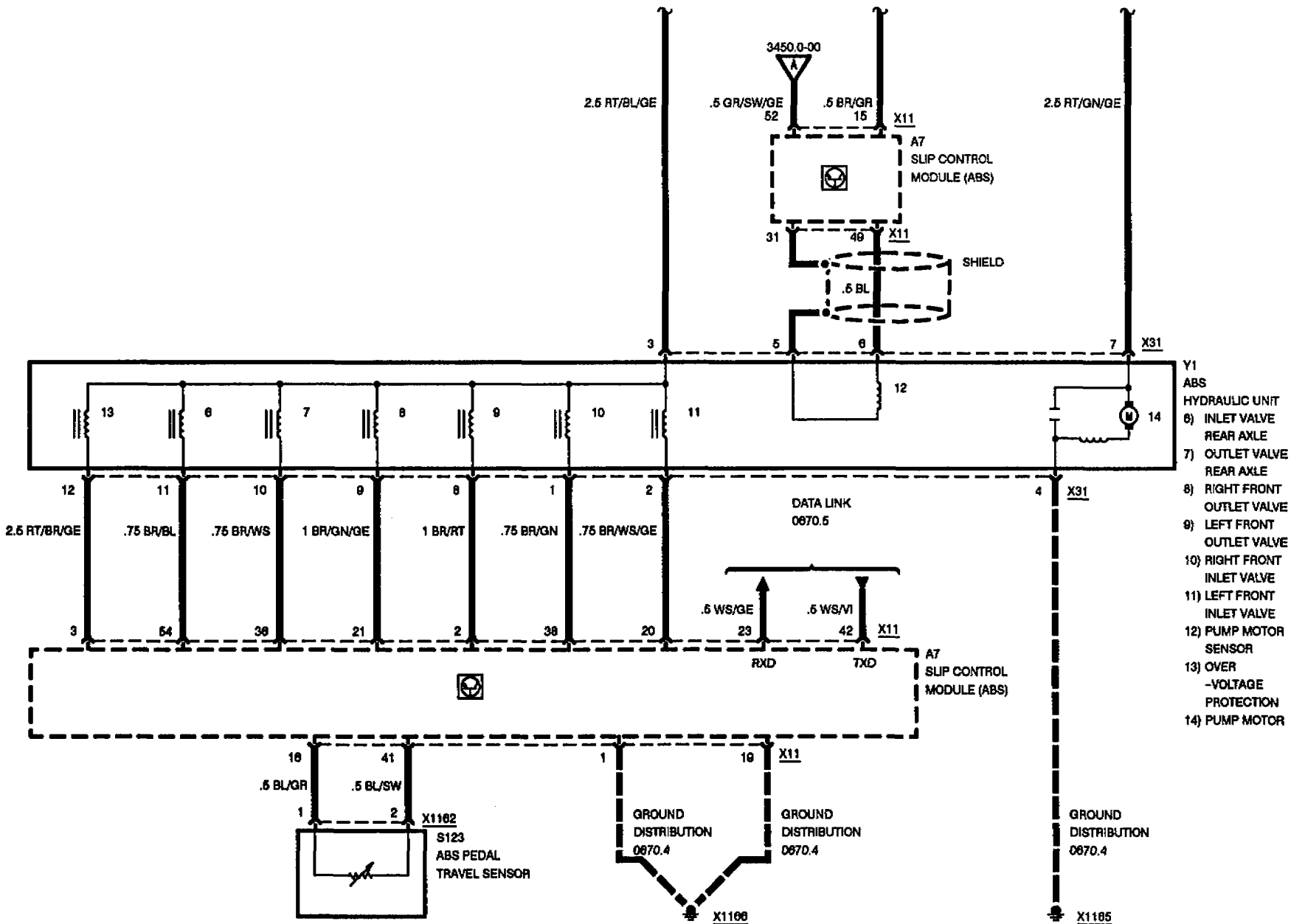
Pin	Type	Description/Function	Connection
31	E	Pump motor sensor shield	ABS hydraulic unit
32	E	Brake light signal	Brake light switch
33	E	Operating voltage	ABS relay
34	A	ABS relay control	ABS relay
35		Not used	
36	A	Rear axle outlet valve control	ABS hydraulic unit
37		Not used	
38	A	Right front inlet valve control	ABS hydraulic unit
39		Not used	
40		Not used	
41	E	ABS pedal travel sensor	ABS pedal travel sensor
42	E/A	TxD diagnostic data link	Data link connector
43		Not used	
44		Not used	
45	E	Speed sensor signal RR	Right rear speed sensor - ABS
46	E	Speed sensor signal RL	Left rear speed sensor - ABS
47	E	Speed sensor signal FR	Right front speed sensor - ABS
48	E	Speed sensor signal FL	Left front speed sensor - ABS
49	E	Pump motor sensor signal	ABS hydraulic unit
50		Not used	
51		Not used	
52	A	ABS warning lamp control	Instrument cluster
53	E	Voltage supply, terminal 15	Front power distribution box, fuse 21
54	A	Rear axle inlet valve control	ABS hydraulic unit
55		Not used	

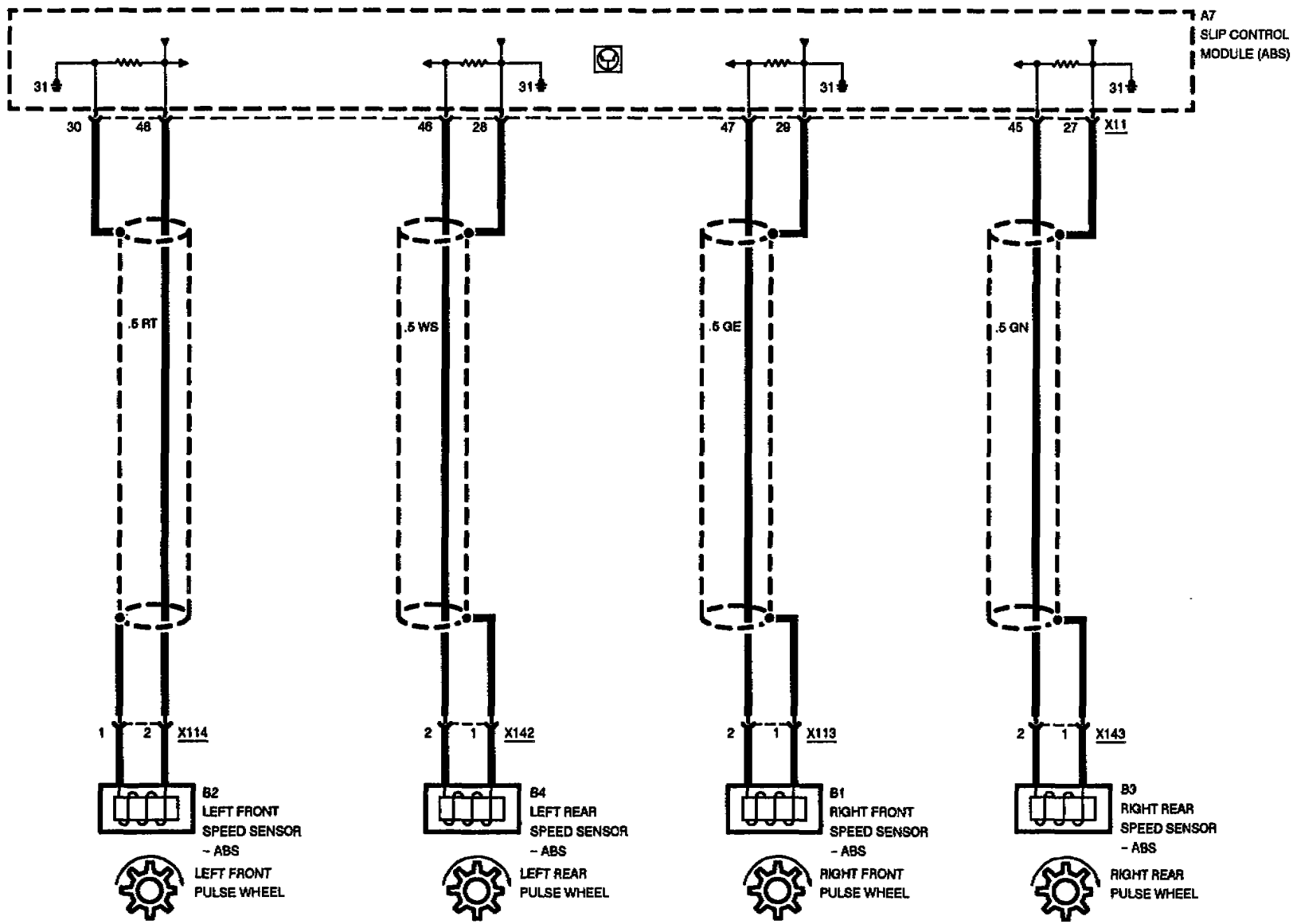
E = Input, A = Output, M = Ground

SLIP CONTROL (ABS)

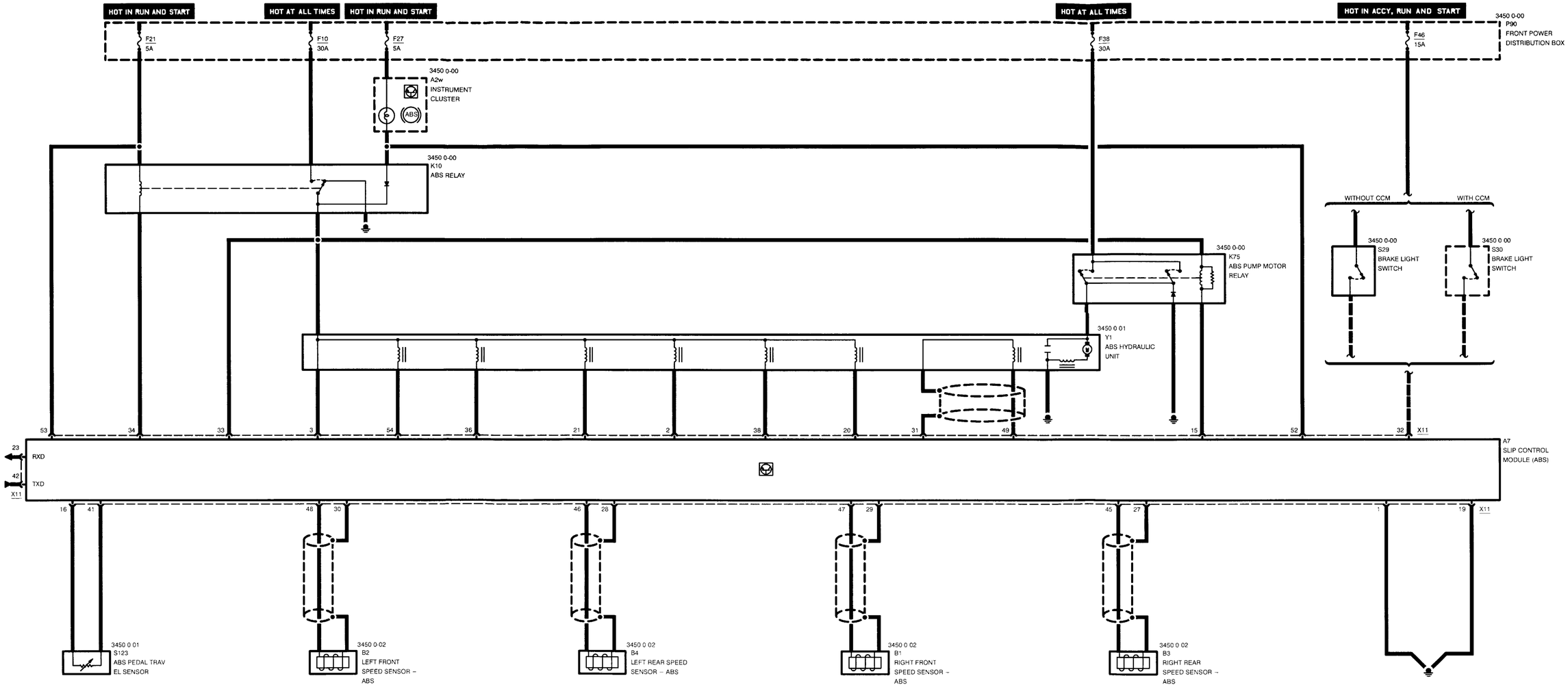
EARLY PRODUCTION

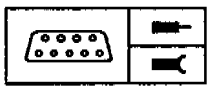



3450.0-00
2.5 RT/BL/GE
.5 GR/SW/GE
52
.5 BR/GR
15
X11
2.5 RT/GN/GE
A7
SLIP CONTROL
MODULE (ABS)
31
49
X11
SHIELD
.5 BL
3
5
6
7
X31
Y1
ABS
HYDRAULIC UNIT
6) INLET VALVE
REAR AXLE
7) OUTLET VALVE
REAR AXLE
8) RIGHT FRONT
OUTLET VALVE
9) LEFT FRONT
OUTLET VALVE
10) RIGHT FRONT
INLET VALVE
11) LEFT FRONT
INLET VALVE
12) PUMP MOTOR
SENSOR
13) OVER
-VOLTAGE
PROTECTION
14) PUMP MOTOR
13
6
7
8
9
10
11
12
14
12
11
10
9
8
1
2
4
X31
2.5 RT/BR/GE
.75 BR/BL
.75 BR/WS
1 BR/GN/GE
1 BR/RT
.75 BR/GN
.75 BR/WS/GE
DATA LINK
0670.5
3
54
36
21
2
38
20
.5 WS/GE
.5 WS/VI
23
42
X11
RXD
TXD
A7
SLIP CONTROL
MODULE (ABS)
16
41
1
19
X11
.5 BL/GR
.5 BL/SW
1
2
X1162
S123
ABS PEDAL
TRAVEL SENSOR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X1166
X1165


A7
SLIP CONTROL
MODULE (ABS)
31
30
46
28
47
29
45
27
X11
.5 RT
.5 WS
.5 GE
.5 GN
1
2
X114
X142
X113
X143
B2
LEFT FRONT
SPEED SENSOR
- ABS
LEFT FRONT
PULSE WHEEL
B4
LEFT REAR
SPEED SENSOR
- ABS
LEFT REAR
PULSE WHEEL
B1
RIGHT FRONT
SPEED SENSOR
- ABS
RIGHT FRONT
PULSE WHEEL
B3
RIGHT REAR
SPEED SENSOR
- ABS
RIGHT REAR
PULSE WHEEL

09/94 — 3450 0b — 1995
09/94 — 3450 0b — 1995



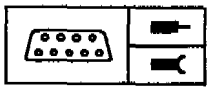


Pin Assignments

X1170

Pin	Type	Description/Function	Connection
1	A	ABS relay control	ABS relay
2	A	Right front inlet valve control	ABS hydraulic unit
3		Not used	
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8	E	Voltage supply, terminal 15	Front power distribution box, fuse 23
9	E	Operating voltage	ABS relay
10	A	Right front outlet valve control	ABS hydraulic unit
11		Not used	
12	A	ABS warning lamp control	Instrument cluster
13	A	Speed sensor ground, RL	Left rear speed sensor - ABS
14	A	Speed sensor ground, RR	Right rear speed sensor - ABS
15	A	Speed sensor ground, FR	Right front speed sensor - ABS
16	A	Speed sensor ground, FL	Left front speed sensor - ABS
17	M	Ground, control module	Chassis ground
18		Not used	
19	E	Voltage supply, terminal 15	Front power distribution box, fuse 21
20		Not used	
21		Not used	
22	A	Left front inlet valve control	ABS hydraulic unit
23	A	ABS pump motor relay control	ABS pump motor relay
24	A	Rear axle inlet valve control	ABS hydraulic unit
25	A	Left front outlet valve control	ABS hydraulic unit
26	M	Ground, control module	Chassis ground
27	E	Voltage monitoring, hydraulics	ABS hydraulic unit
28	E/A	TxD diagnostic data link	Data link connector
29	E	Brake light signal	Brake light switch
30		Not used	

E = Input, A = Output, M = Ground



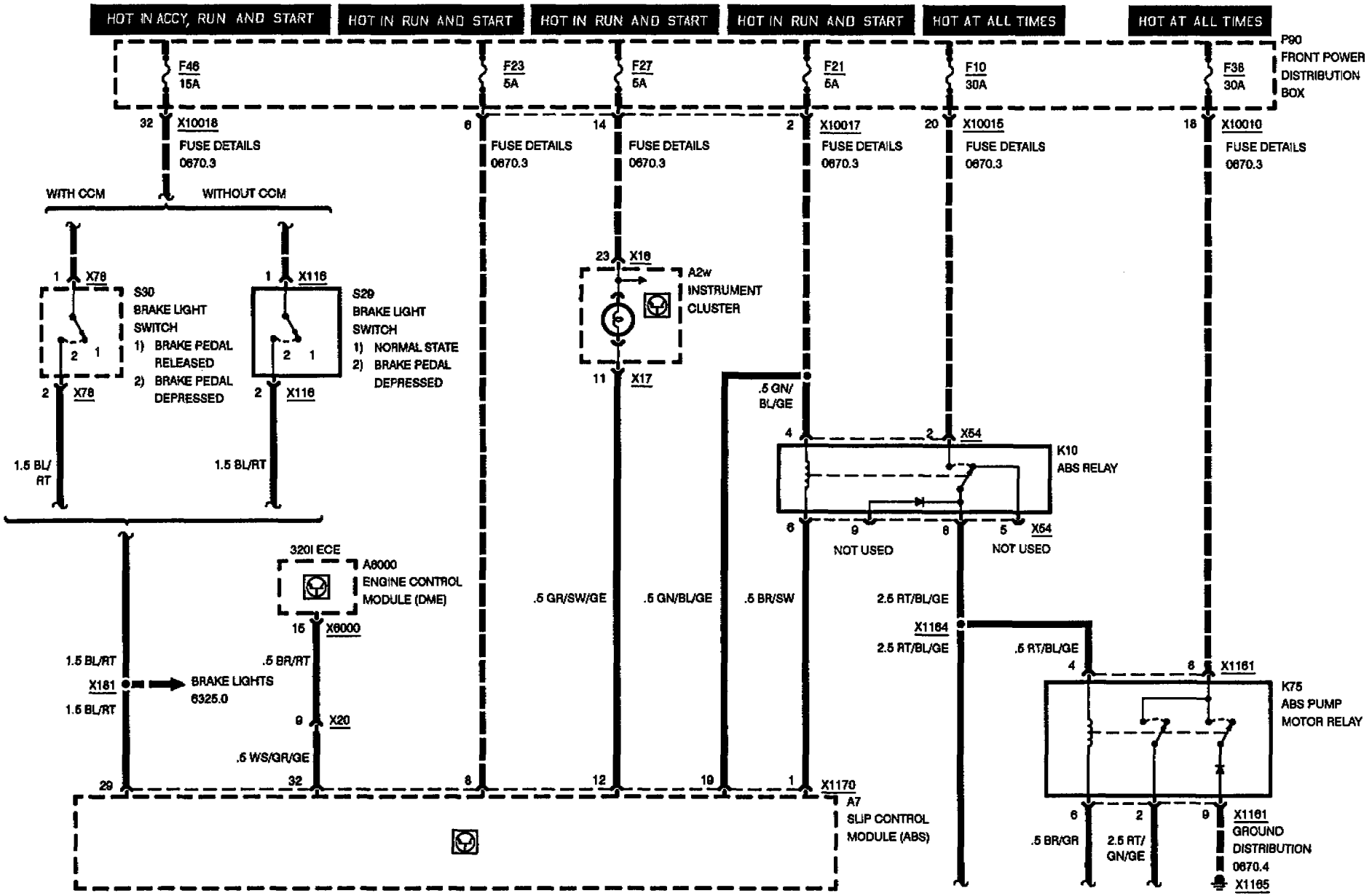
Pin Assignments

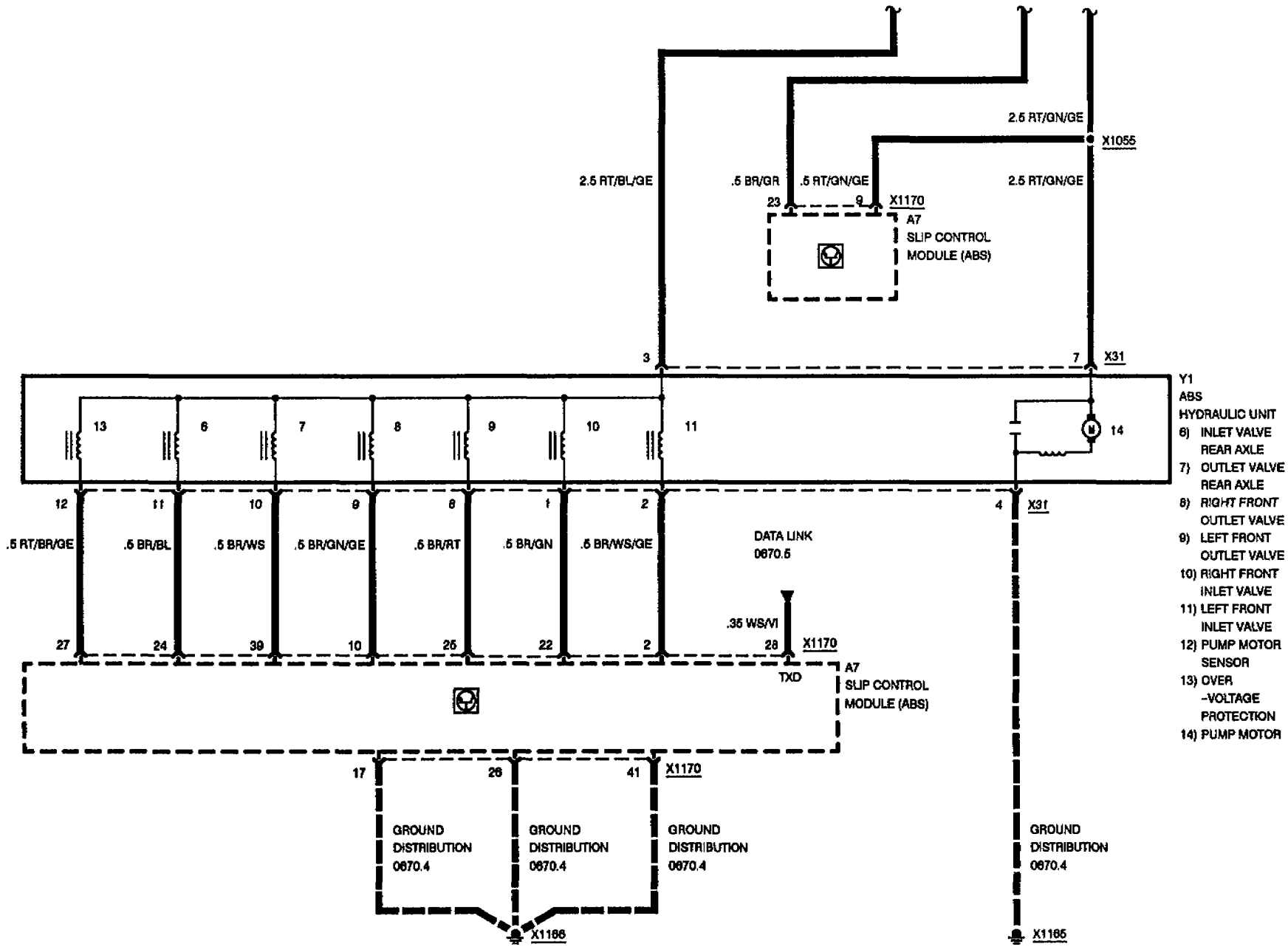
Pin	Type	Description/Function	Connection
31		Not used	
32		Not used	
33		Not used	
34	E	Speed sensor signal RL	Left rear speed sensor - ABS
35	E	Speed sensor signal RR	Right rear speed sensor - ABS
36	E	Speed sensor signal FR	Right front speed sensor - ABS
37	E	Speed sensor signal FL	Left front speed sensor - ABS
38		Not used	
39	A	Rear axle outlet valve control	ABS hydraulic unit
40		Not used	
41	M	Ground, control module	Chassis ground
42		Not used	
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54		Not used	
55		Not used	

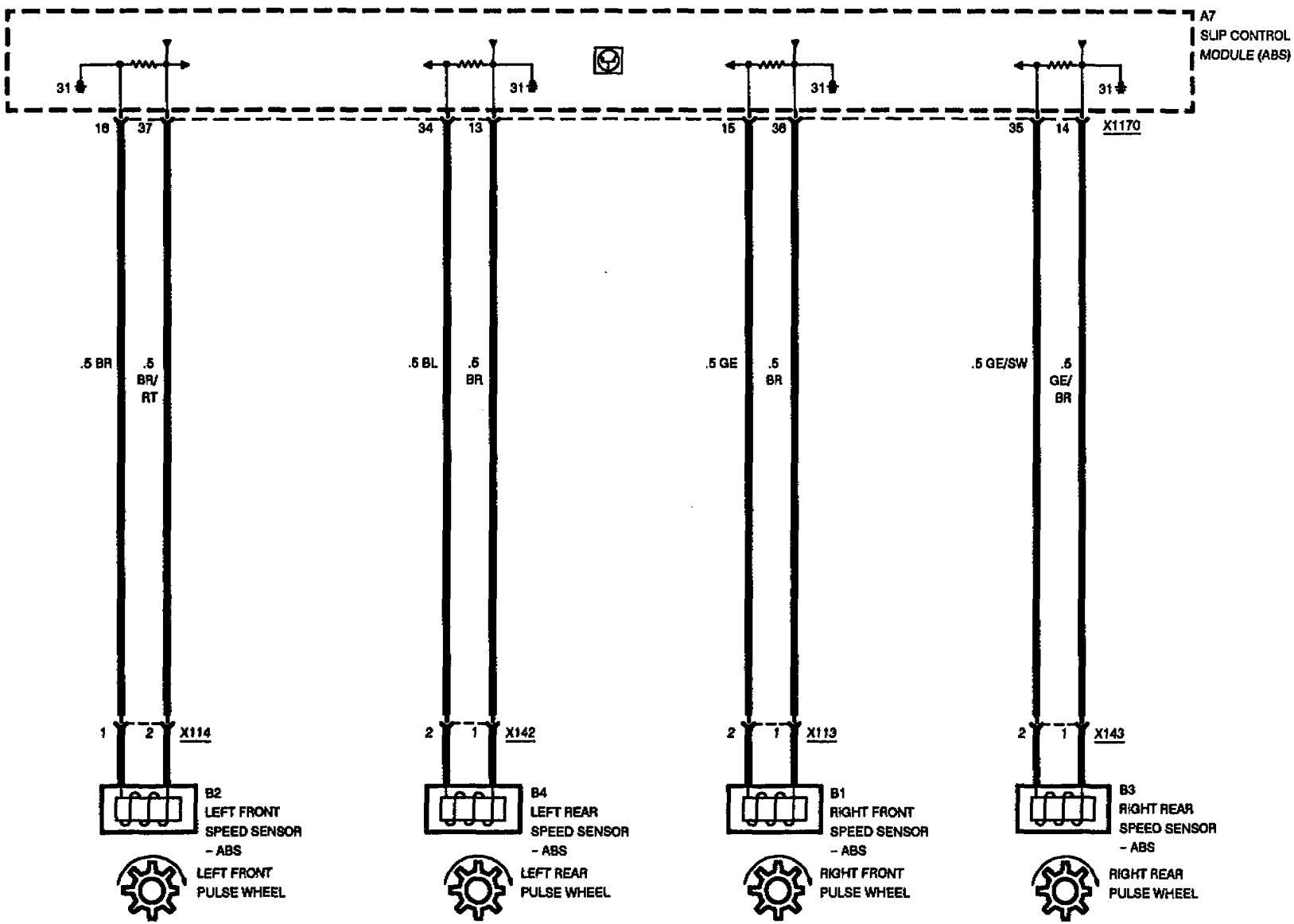
E = Input, A = Output, M = Ground

SLIP CONTROL (ABS)

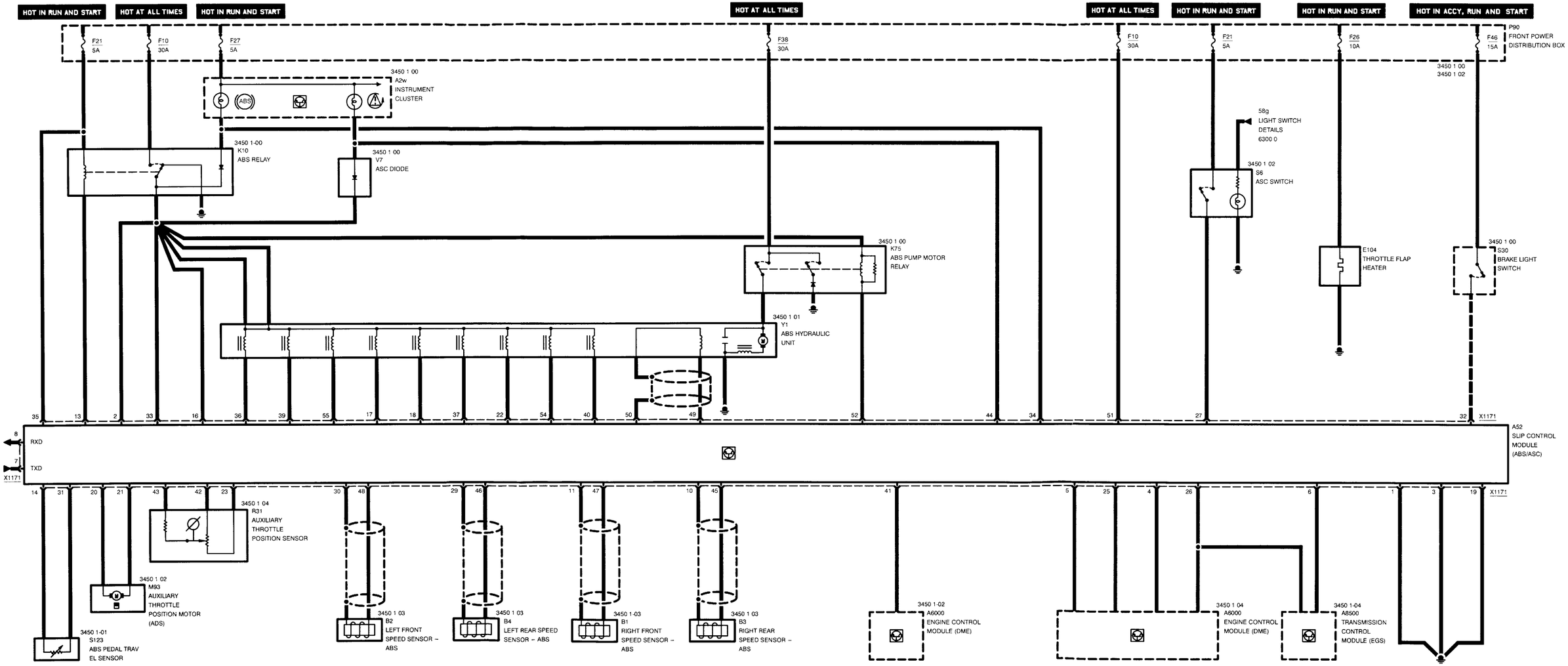
LATE PRODUCTION




2.5 RT/GN/GE
X1055
2.5 RT/BL/GE
.5 BR/GR
.5 RT/GN/GE
2.5 RT/GN/GE
23
9
X1170
A7
SLIP CONTROL
MODULE (ABS)
3
7
X31
13
6
7
8
9
10
11
14
Y1
ABS
HYDRAULIC UNIT
6) INLET VALVE REAR AXLE
7) OUTLET VALVE REAR AXLE
8) RIGHT FRONT OUTLET VALVE
9) LEFT FRONT OUTLET VALVE
10) RIGHT FRONT INLET VALVE
11) LEFT FRONT INLET VALVE
12) PUMP MOTOR SENSOR
13) OVER -VOLTAGE PROTECTION
14) PUMP MOTOR
12
11
10
9
8
1
2
4
X31
.5 RT/BR/GE
.5 BR/BL
.5 BR/WS
.5 BR/GN/GE
.5 BR/RT
.5 BR/GN
.5 BR/WS/GE
DATA LINK
0670.5
.35 WS/VI
27
24
39
10
25
22
2
28
X1170
TXD
A7
SLIP CONTROL
MODULE (ABS)
17
26
41
X1170
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X1166
X1165


A7
SLIP CONTROL
MODULE (ABS)
31
31
31
31
18
37
34
13
15
36
35
14
X1170
.5 BR
.5
BR/
RT
.5 BL
.5
BR
.5 GE
.5
BR
.5 GE/SW
.5
GE/
BR
1
2
X114
2
1
X142
2
1
X113
2
1
X143
B2
LEFT FRONT
SPEED SENSOR
- ABS
LEFT FRONT
PULSE WHEEL
B4
LEFT REAR
SPEED SENSOR
- ABS
LEFT REAR
PULSE WHEEL
B1
RIGHT FRONT
SPEED SENSOR
- ABS
RIGHT FRONT
PULSE WHEEL
B3
RIGHT REAR
SPEED SENSOR
- ABS
RIGHT REAR
PULSE WHEEL

09/94 3450 1 1995
09/94 3450 1 1995

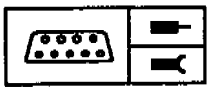


Pin Assignments

X1171

Pin	Type	Description/Function	Connection
1	M	Ground	Ground
2	E	Battery voltage	ABS relay
3	M	Ground, module	Ground
4	E	Signal	DME-module
5	A	EML-signal	DME-module
6	A	Transmission influence	EGS-module
7	E/A	TxD-signal	Diagnostic link
8	A	RxD-signal	Diagnostic link
9		Not used	
10	A	Sensor ground	ABS-speed sensor rear right
11	A	Sensor ground	ABS-speed sensor front right
12		Not used	
13	A	ABS-power protection relay	ABS-power protection relay
14	E	Signal ABS-travel sensor	ABS-travel sensor
15		Not used	
16	E	Current	ABS-relay
17	A	Solenoid valve signal left rear	ABS-hydraulic unit
18	A	Solenoid valve signal left rear	ABS-hydraulic unit
19	M	Ground	Ground
20	A	ADS-step Motor	ADS-step motor
21	A	ADS-step Motor	ADS-step motor
22	A	Solenoid valve signal right front	ABS-hydraulic unit
23	E	ASC-throttle flap potentiometer	ASC-throttle flap motor
24		Not used	
25	E	Signal idle speed	DME-module
26	A	Throttle flap position	DME-module
27	E	ASC-switch signal	ASC-switch
28		Not used	
29	A	Sensor ground	ABS-speed sensor rear left
30	A	Sensor gound	ABS-speed sensor front left

E = Input, A = Output, M = Ground

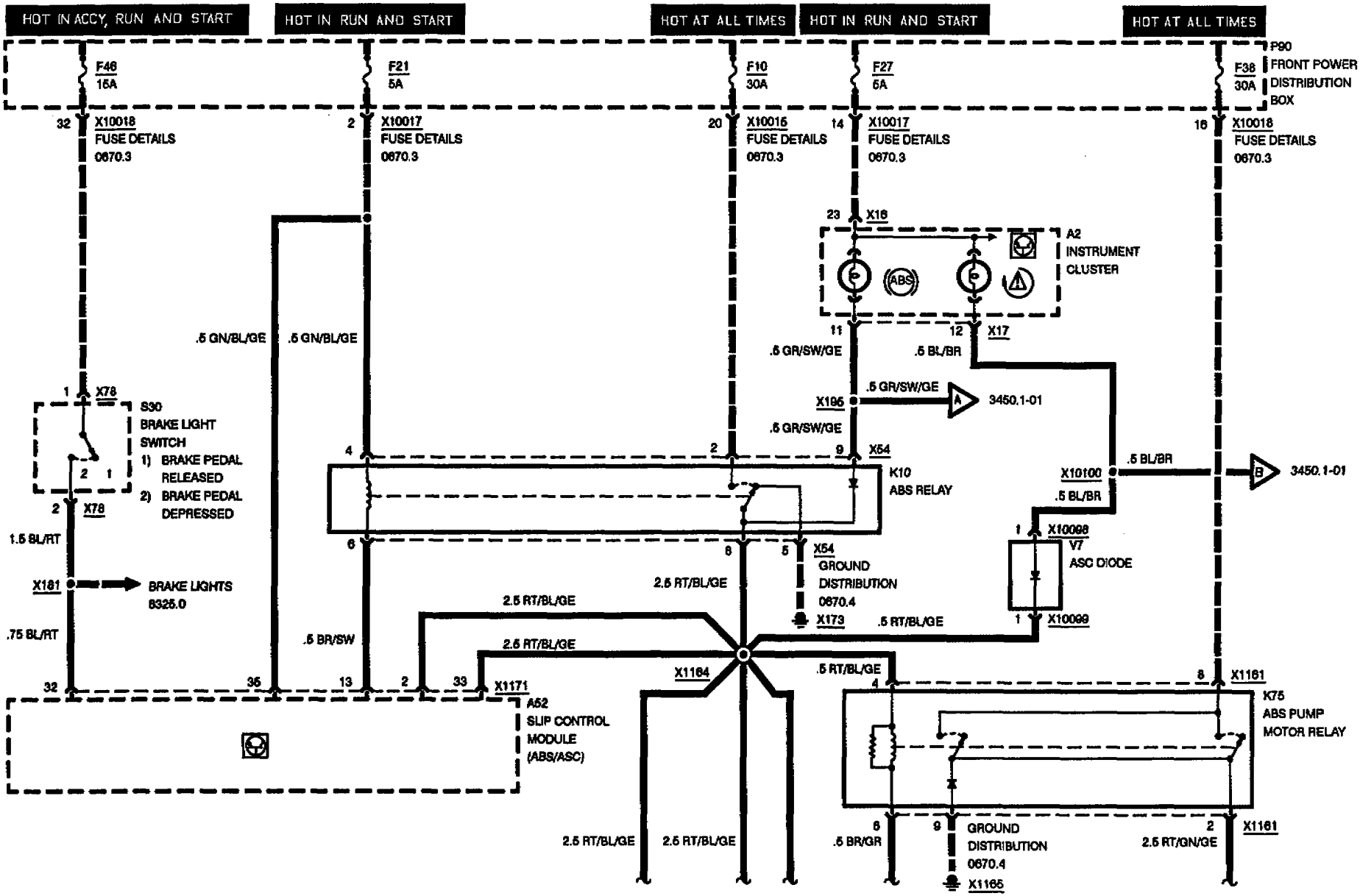


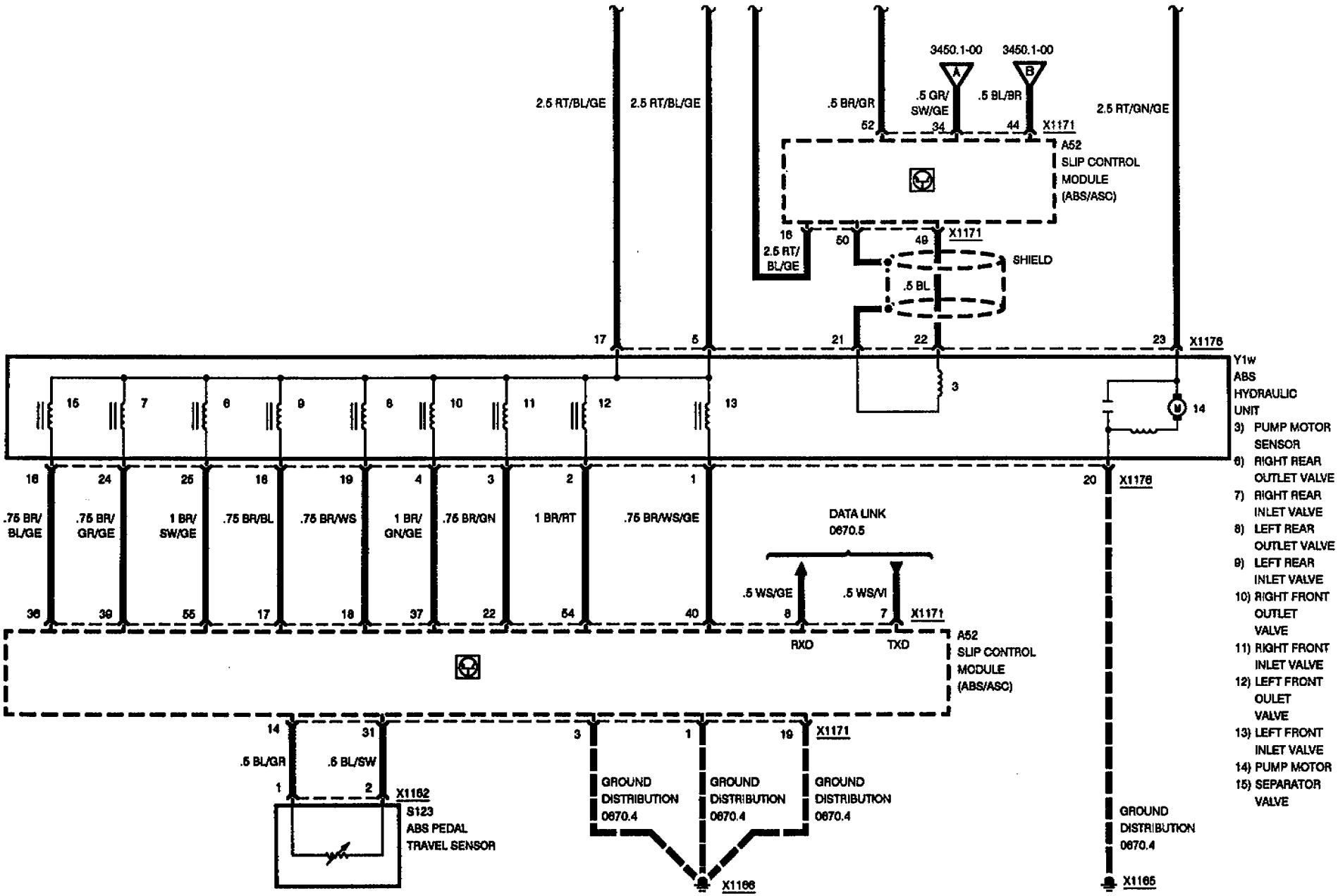
Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Signal ABS-travel sensor	ABS-travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS-protection relay
34	A	ABS-lamp control	Instrument cluster
35	E	Ignition signal	Ignition switch
36	A	Solenoid valve	ABS-hydraulic unit
37	A	Solenoid valve signal right front	ABS-hydraulic unit
38		Not used	
39	A	Solenoid valve signal left rear	ABS-hydraulic unit
40	A	Solenoid valve signal left front	ABS-hydraulic unit
41	E	Speed signal	DME-module
42	E	ASC-throttle flap potentiometer	ASC-throttle flap potentiometer
43	E	ASC-throttle flap potentiometer	ASC-throttle flap potentiometer
44	A	ASC-lamp control	Instrument cluster
45	E	Speed sensor signal rear right	Speed sensor rear right
46	E	Speed sensor signal rear left	Speed sensor rear left
47	E	Speed sensor signal front right	Speed sensor front right
48	E	Speed sensor signal front left	Speed sensor front left
49	E	Pump motor sensor signal	ABS-hydraulic unit
50	E	Shield pump motor sensor	ABS-hydraulic unit
51	E	Plus supply	Front power distribution box
52	A	ABS-pump motor relay	ABS-pump motor relay
53		Not used	
54	A	Solenoid valve signal left front	ABS-hydraulic unit
55	A	Solenoid valve signal left rear	ABS-hydraulic unit

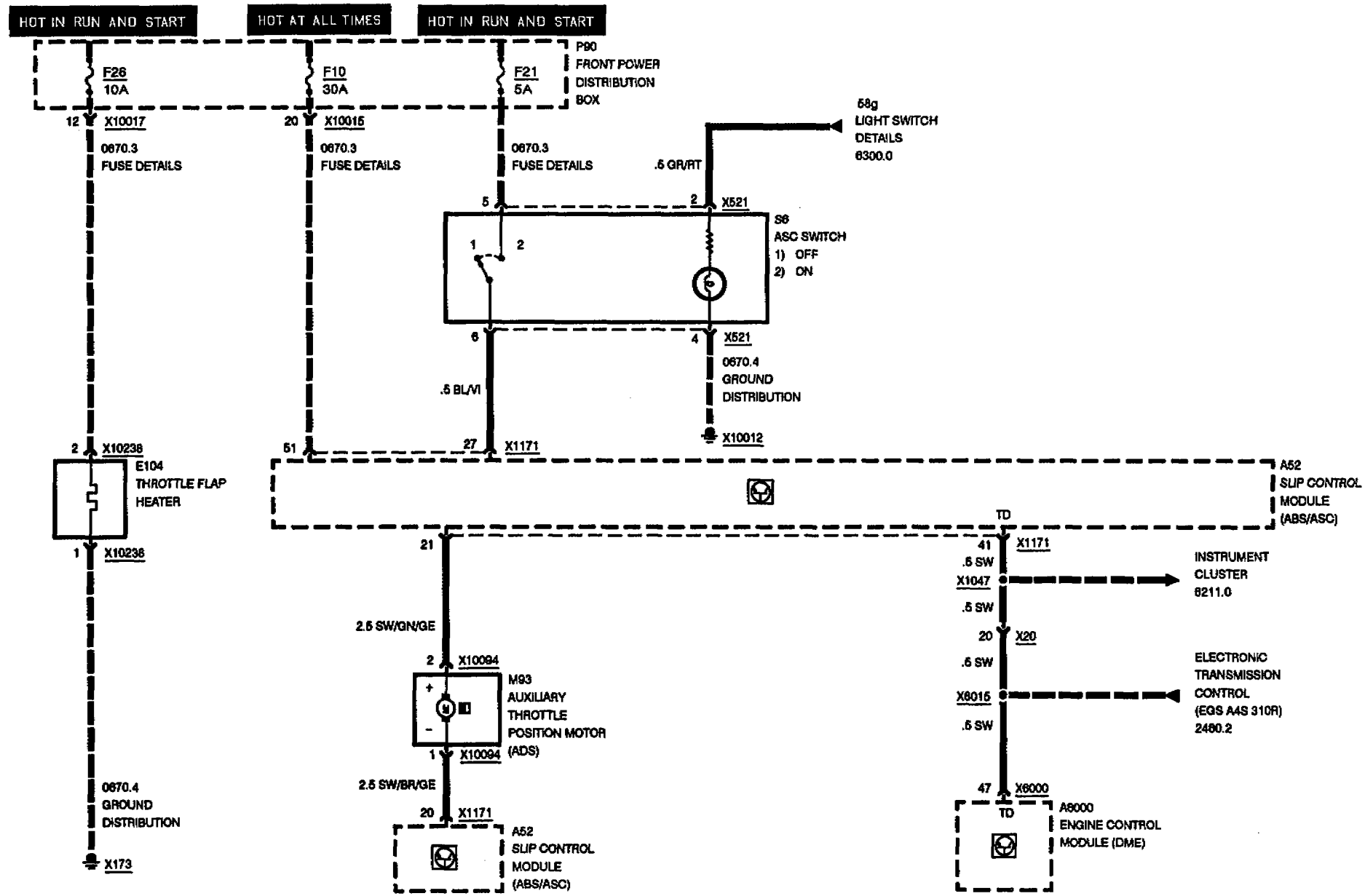
E = Input, A = Output, M = Ground

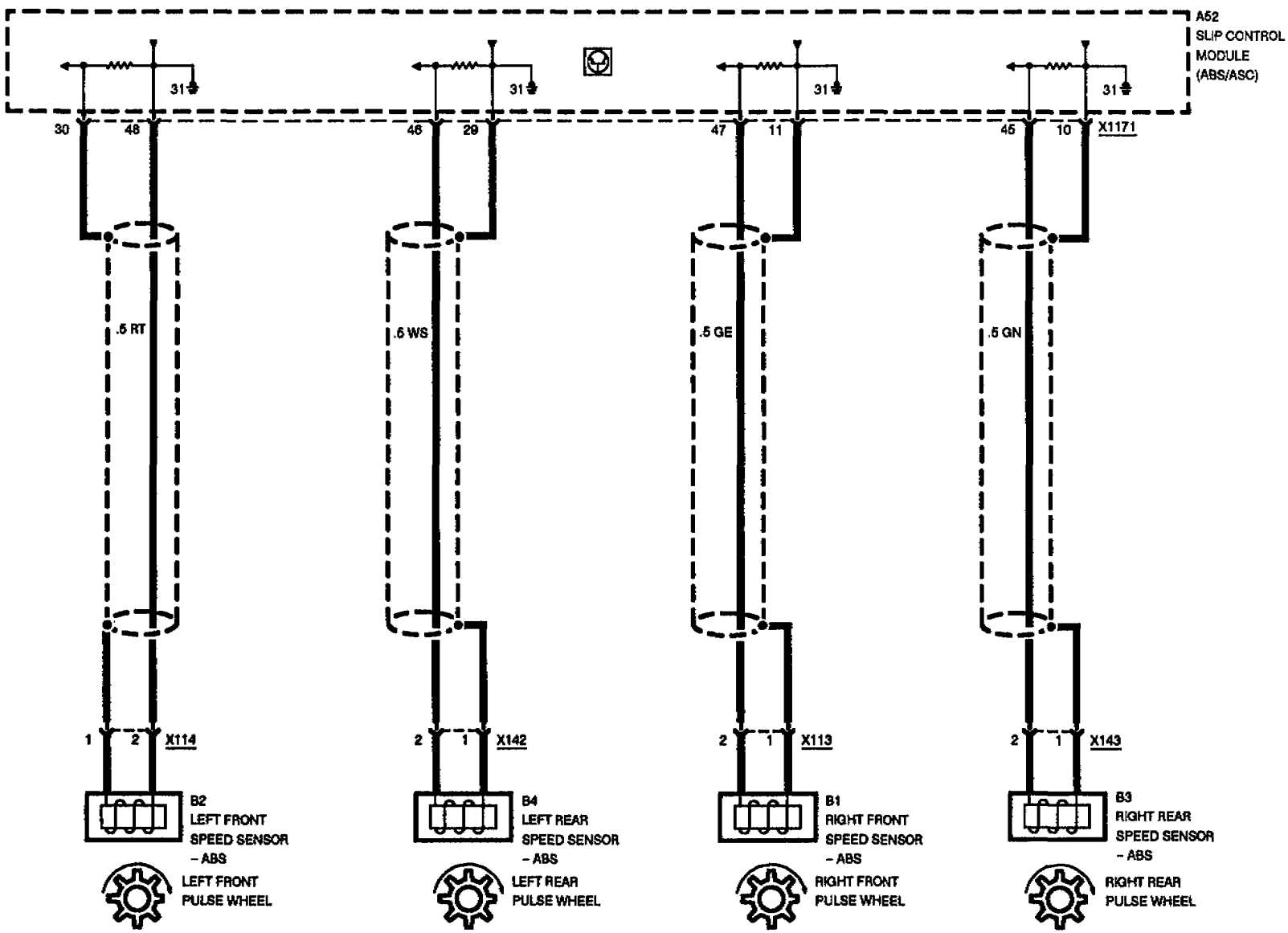
SLIP CONTROL (ABS/ASC)

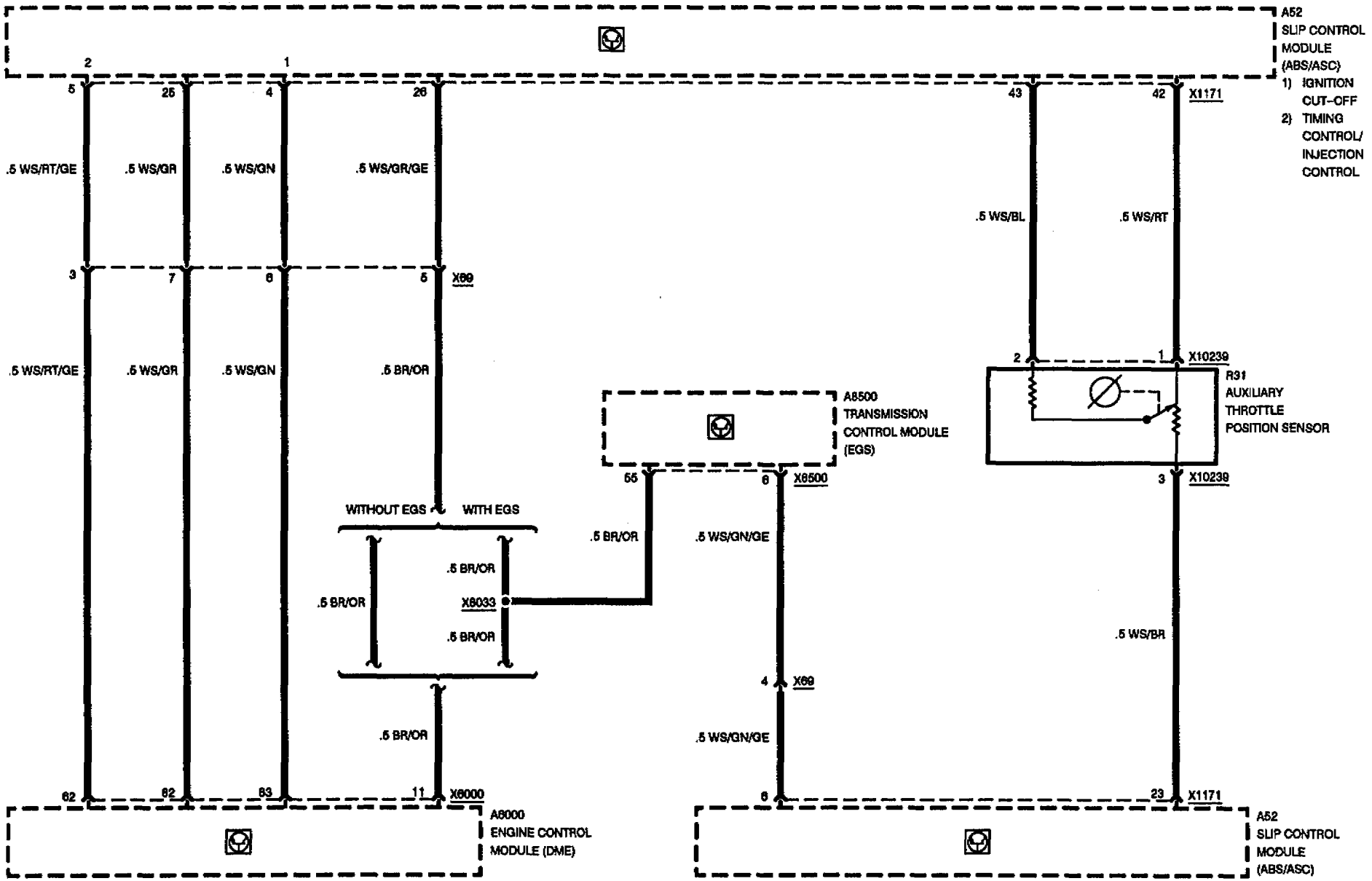


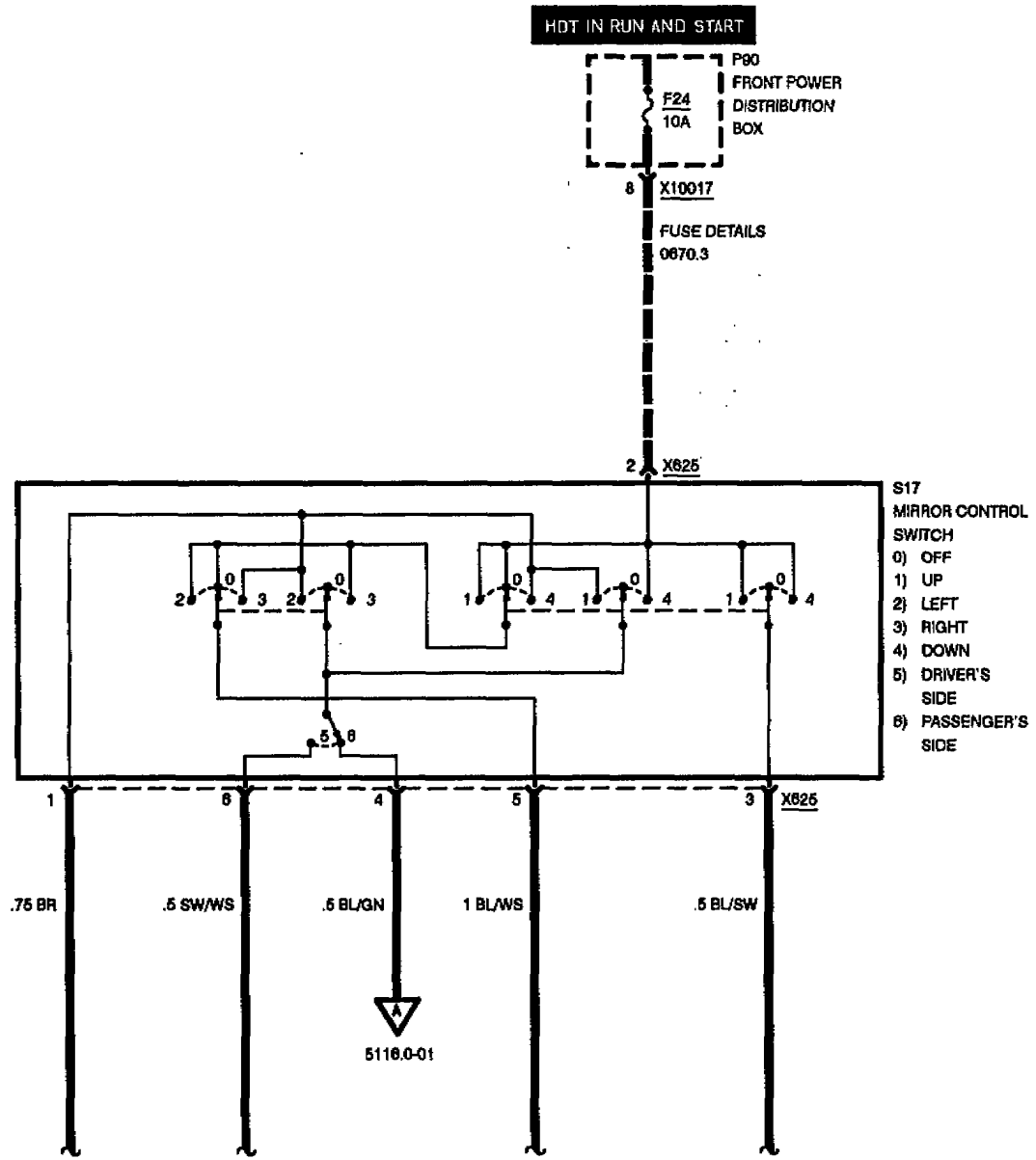

3450.1-00
3450.1-00
2.5 RT/BL/GE
2.5 RT/BL/GE
.5 BR/GR
.5 GR/ SW/GE
.5 BL/BR
2.5 RT/GN/GE
52
34
44
X1171
A52
SLIP CONTROL MODULE (ABS/ASC)
16
2.5 RT/ BL/GE
50
49
X1171
SHIELD
.5 BL
17
5
21
22
23
X1176
Y1w
ABS HYDRAULIC UNIT
3) PUMP MOTOR SENSOR
6) RIGHT REAR OUTLET VALVE
7) RIGHT REAR INLET VALVE
8) LEFT REAR OUTLET VALVE
9) LEFT REAR INLET VALVE
10) RIGHT FRONT OUTLET VALVE
11) RIGHT FRONT INLET VALVE
12) LEFT FRONT OULET VALVE
13) LEFT FRONT INLET VALVE
14) PUMP MOTOR
15) SEPARATOR VALVE
15
7
6
9
8
10
11
12
13
3
14
16
24
25
18
19
4
3
2
1
20
X1176
.75 BR/ BL/GE
.75 BR/ GR/GE
1 BR/ SW/GE
.75 BR/BL
.75 BR/WS
1 BR/ GN/GE
.75 BR/GN
1 BR/RT
.75 BR/WS/GE
DATA LINK 0670.5
.5 WS/GE
.5 WS/VI
36
39
55
17
18
37
22
54
40
8
7
X1171
RXD
TXD
A52
SLIP CONTROL MODULE (ABS/ASC)
14
31
.5 BL/GR
.5 BL/SW
1
2
X1162
S123
ABS PEDAL TRAVEL SENSOR
3
1
19
X1171
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X1166
GROUND DISTRIBUTION 0670.4
X1165

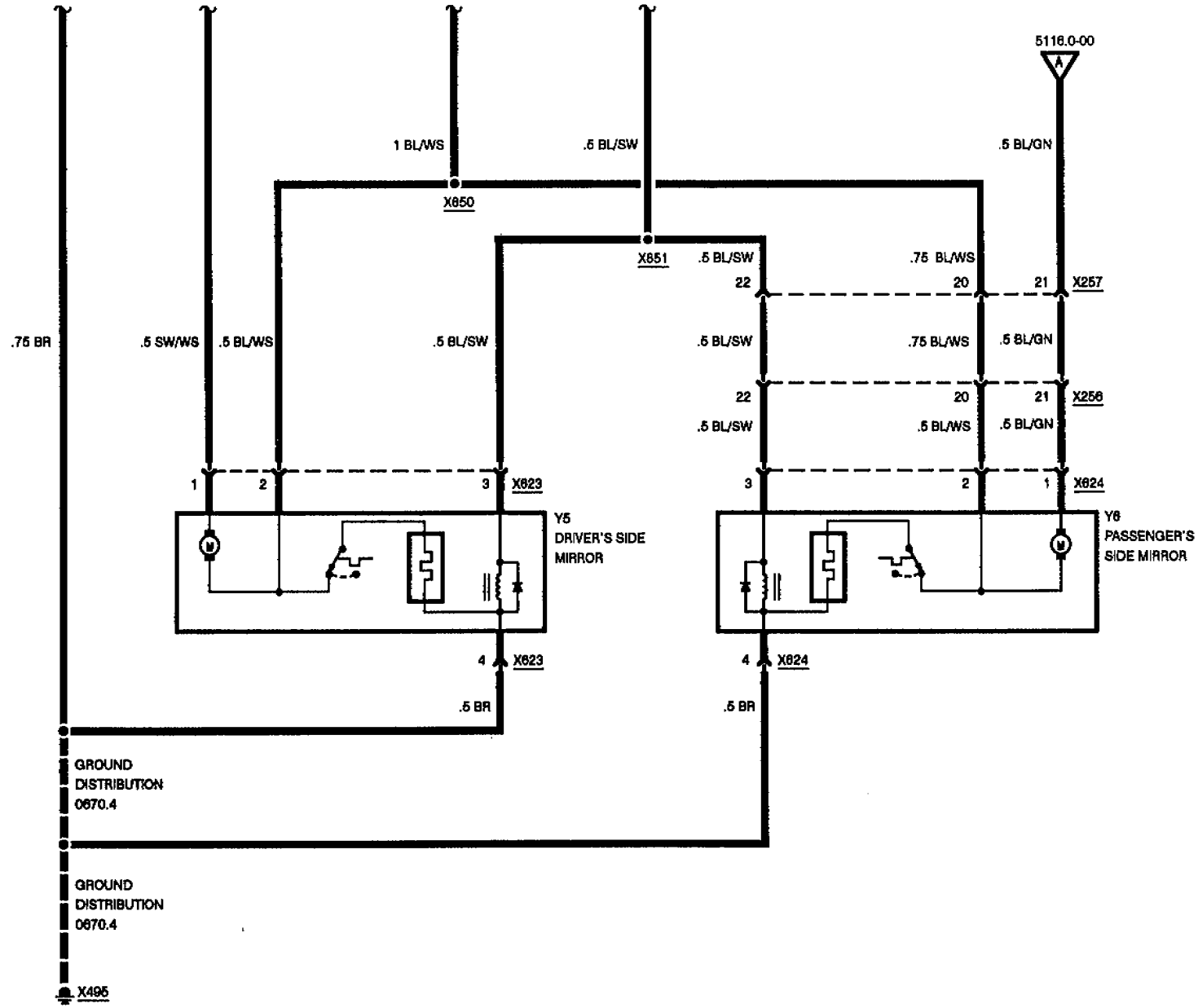
SLIP CONTROL (ABS/ASC)




A52
SLIP CONTROL
MODULE
(ABS/ASC)
31
30
48
46
29
47
11
45
10
X1171
.5 RT
.6 WS
.5 GE
.5 GN
1
2
X114
X142
X113
X143
B2
LEFT FRONT
SPEED SENSOR
– ABS
B4
LEFT REAR
SPEED SENSOR
– ABS
B1
RIGHT FRONT
SPEED SENSOR
– ABS
B3
RIGHT REAR
SPEED SENSOR
– ABS
LEFT FRONT
PULSE WHEEL
LEFT REAR
PULSE WHEEL
RIGHT FRONT
PULSE WHEEL
RIGHT REAR
PULSE WHEEL

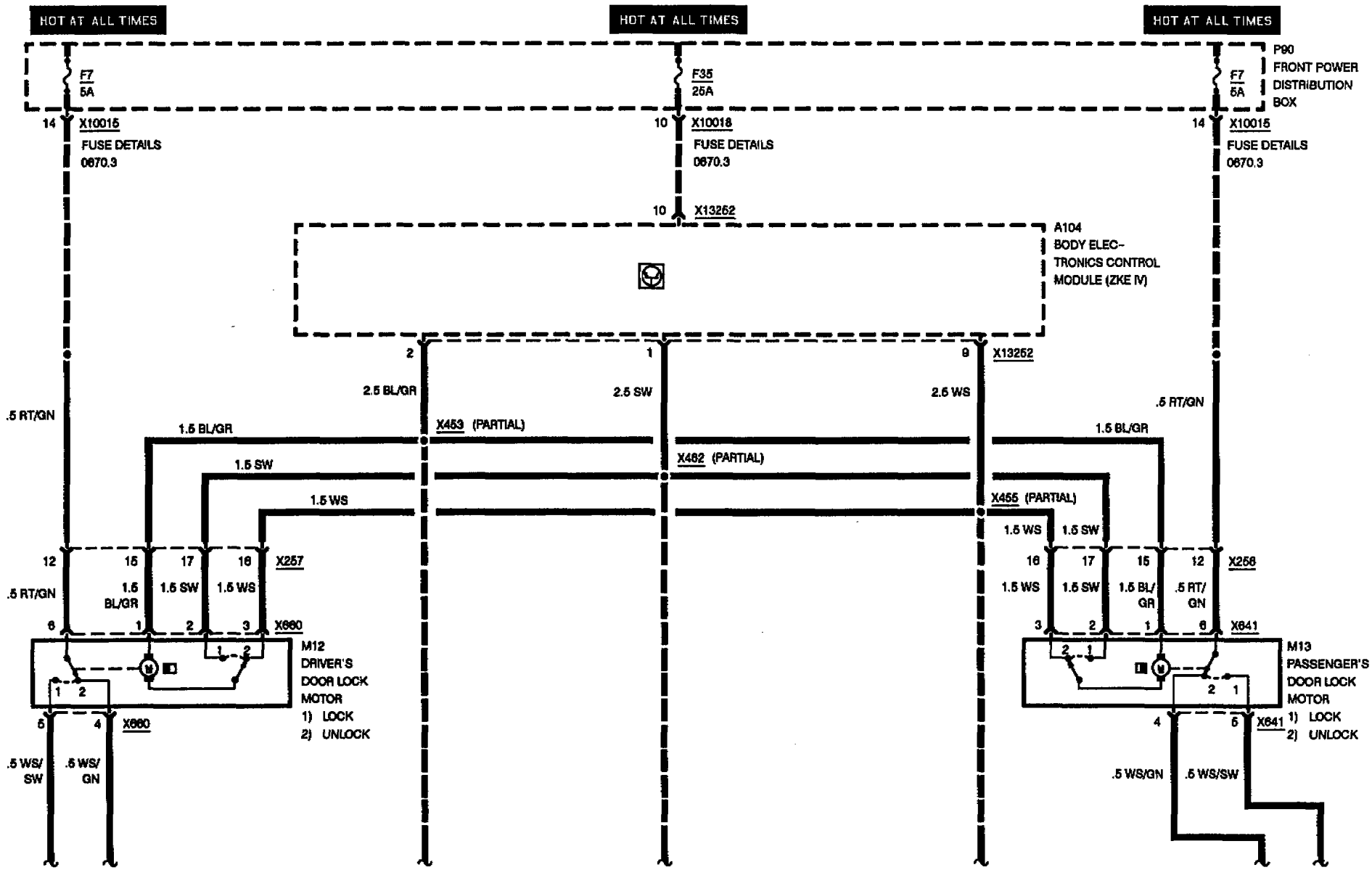

A52
SLIP CONTROL
MODULE
(ABS/ASC)
1) IGNITION
CUT-OFF
2) TIMING
CONTROL/
INJECTION
CONTROL
2
1
5
25
4
26
43
42
X1171
.5 WS/RT/GE
.5 WS/GR
.5 WS/GN
.5 WS/GR/GE
.5 WS/BL
.5 WS/RT
3
7
8
5
X69
2
1
X10239
.5 WS/RT/GE
.5 WS/GR
.5 WS/GN
.5 BR/OR
R31
AUXILIARY
THROTTLE
POSITION SENSOR
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
55
6
X8500
3
X10239
WITHOUT EGS
WITH EGS
.5 BR/OR
.5 WS/GN/GE
.5 BR/OR
.5 BR/OR
X8033
.5 BR/OR
.5 WS/BR
4
X69
.5 BR/OR
.5 WS/GN/GE
62
82
83
11
X6000
6
23
X1171
A8000
ENGINE CONTROL
MODULE (DME)
A52
SLIP CONTROL
MODULE
(ABS/ASC)

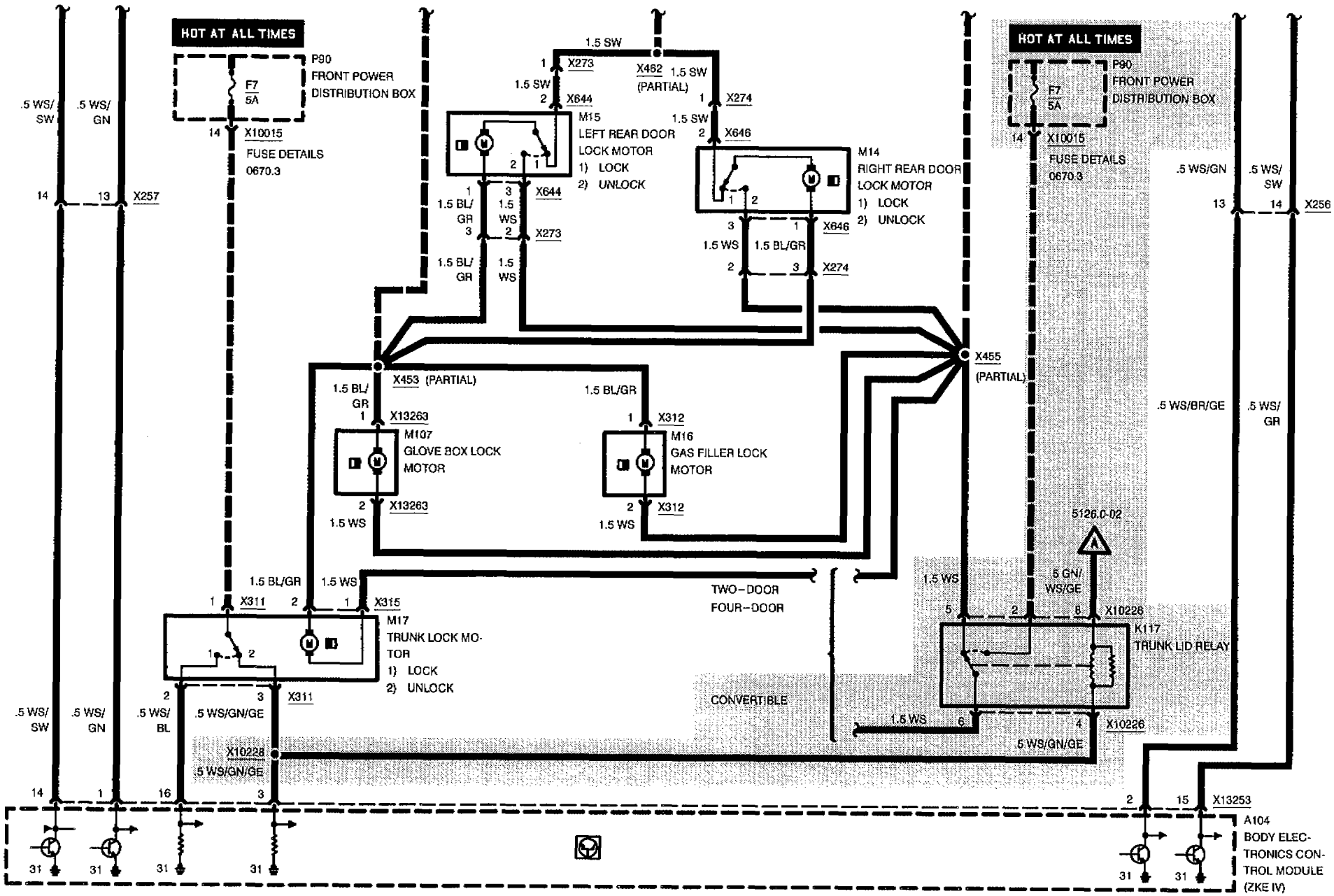

HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION
BOX
F24
10A
8 X10017
FUSE DETAILS
0670.3
2 X625
S17
MIRROR CONTROL
SWITCH
0) OFF
1) UP
2) LEFT
3) RIGHT
4) DOWN
5) DRIVER'S
SIDE
6) PASSENGER'S
SIDE
1
6
4
5
3 X625
.75 BR
.5 SW/WS
.5 BL/GN
1 BL/WS
.5 BL/SW
A
5116.0-01


5116.0-00
A
1 BL/WS
.5 BL/SW
.5 BL/GN
X650
X851
.5 BL/SW
.75 BL/WS
22
20
21
X257
.75 BR
.5 SW/WS
.5 BL/WS
.5 BL/SW
.5 BL/SW
.75 BL/WS
.5 BL/GN
22
20
21
X256
.5 BL/SW
.5 BL/WS
.5 BL/GN
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
.5 BR
.5 BR
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X495

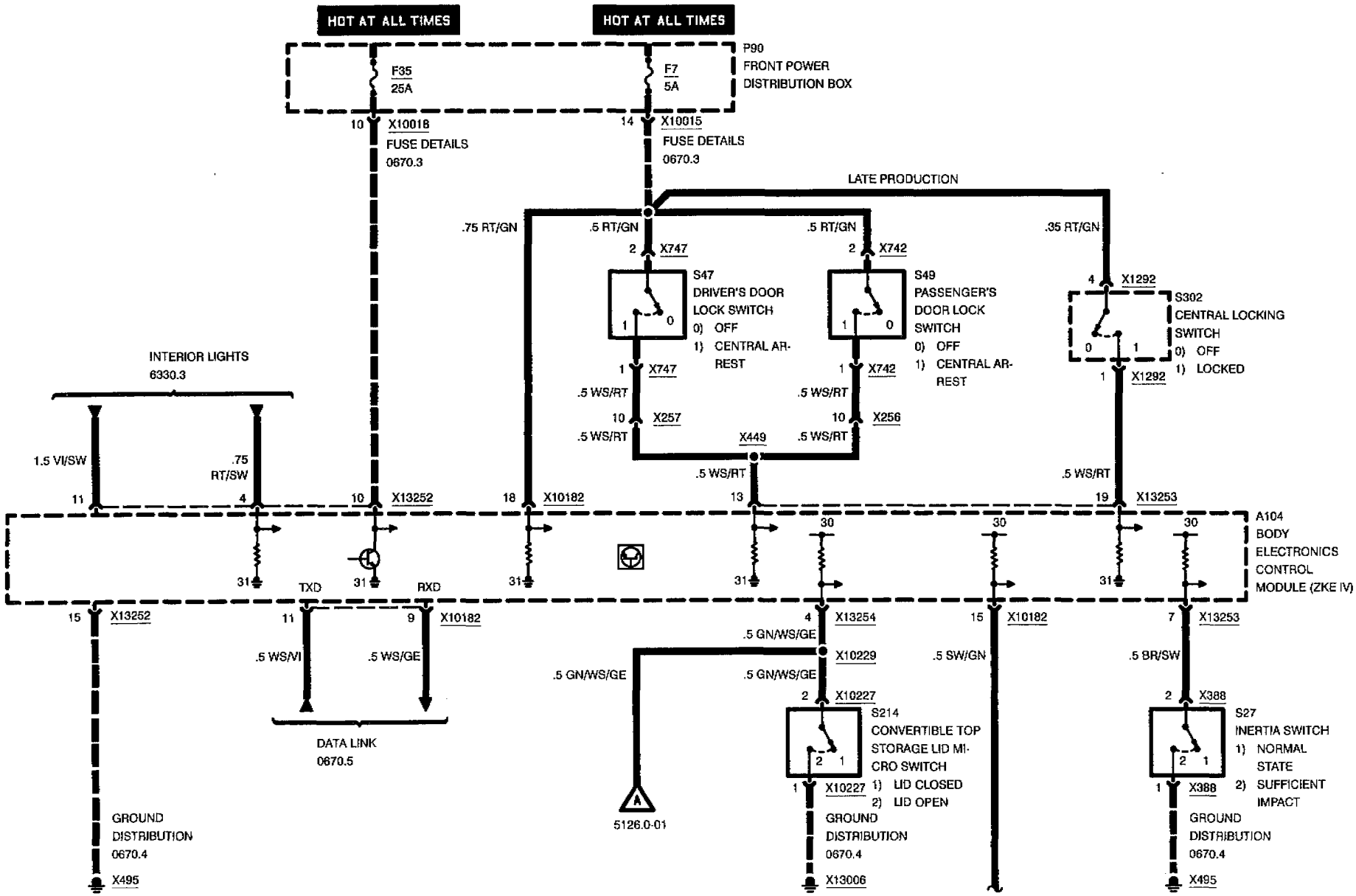
ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS




HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F7
5A
X10015
FUSE DETAILS
0670.3
.5 WS/
SW
.5 WS/
GN
14
13
X257
1.5 SW
X273
X462
(PARTIAL)
X274
X644
M15
LEFT REAR DOOR
LOCK MOTOR
1) LOCK
2) UNLOCK
1.5 BL/
GR
1.5
WS
X646
M14
RIGHT REAR DOOR
LOCK MOTOR
1) LOCK
2) UNLOCK
X453 (PARTIAL)
X455
(PARTIAL)
1.5 BL/GR
X13263
M107
GLOVE BOX LOCK
MOTOR
X312
M16
GAS FILLER LOCK
MOTOR
TWO-DOOR
FOUR-DOOR
X311
X315
M17
TRUNK LOCK MO-
TOR
1) LOCK
2) UNLOCK
CONVERTIBLE
5126.0-02
.5 GN/
WS/GE
X10226
K117
TRUNK LID RELAY
.5 WS/
BL
.5 WS/GN/GE
X10228
.5 WS/BR/GE
.5 WS/
GR
X256
X13253
A104
BODY ELEC-
TRONICS CON-
TROL MODULE
(ZKE IV)
31

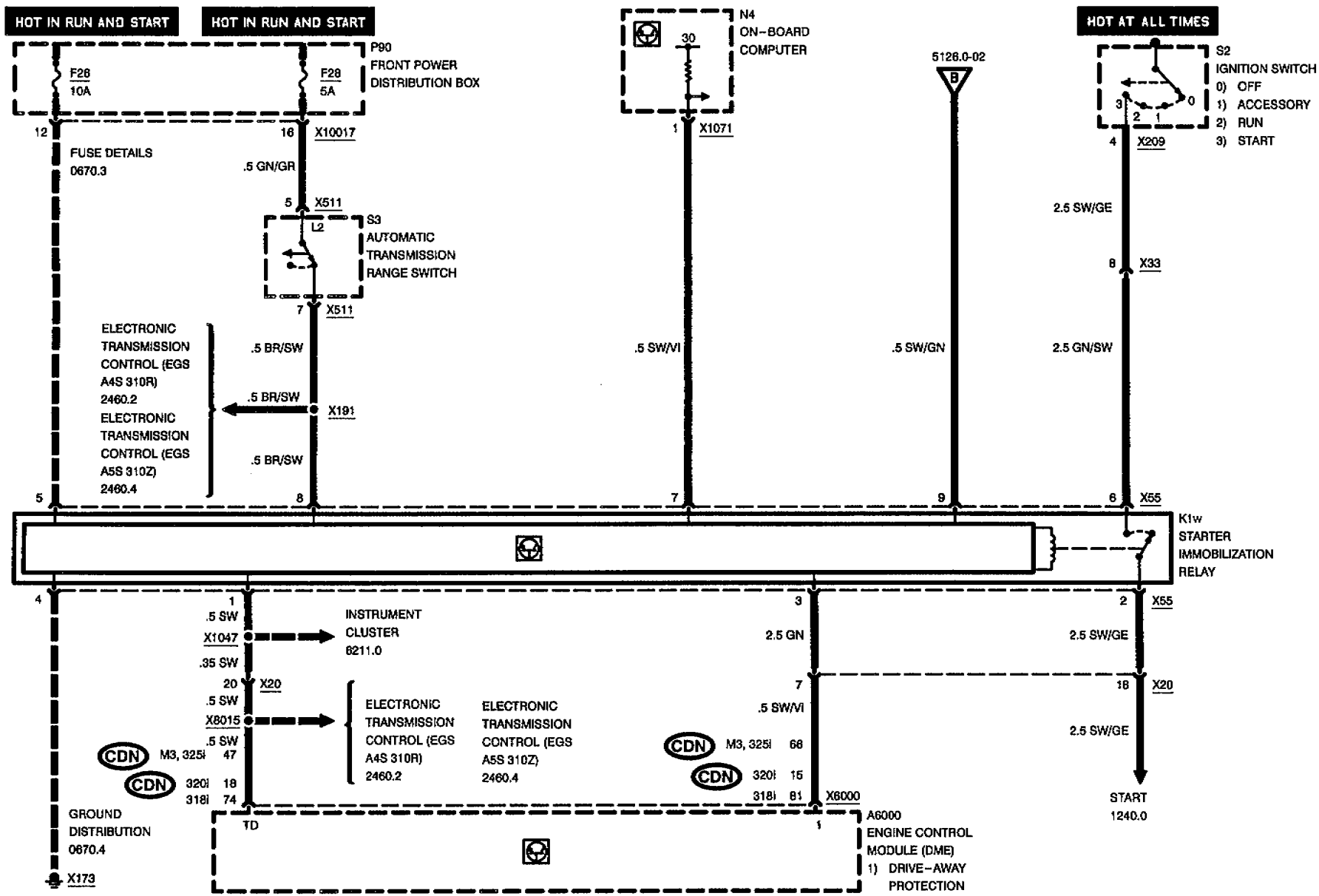
ZKE CENTRAL LOCKING (ZV)



ZKE CENTRAL LOCKING (ZV)

DRIVE-AWAY PROTECTION

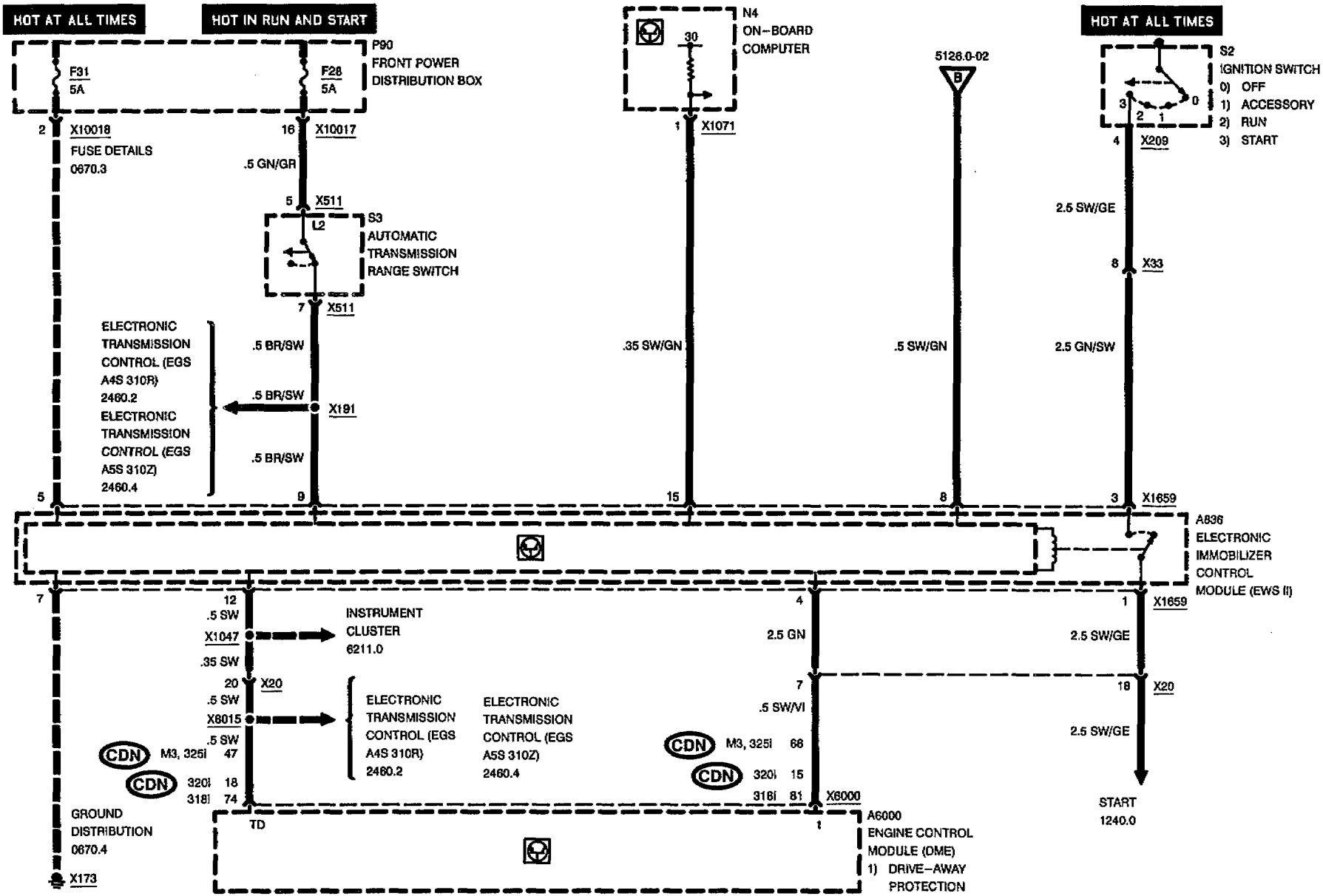
EARLY PRODUCTION



ZKE CENTRAL LOCKING (ZV)

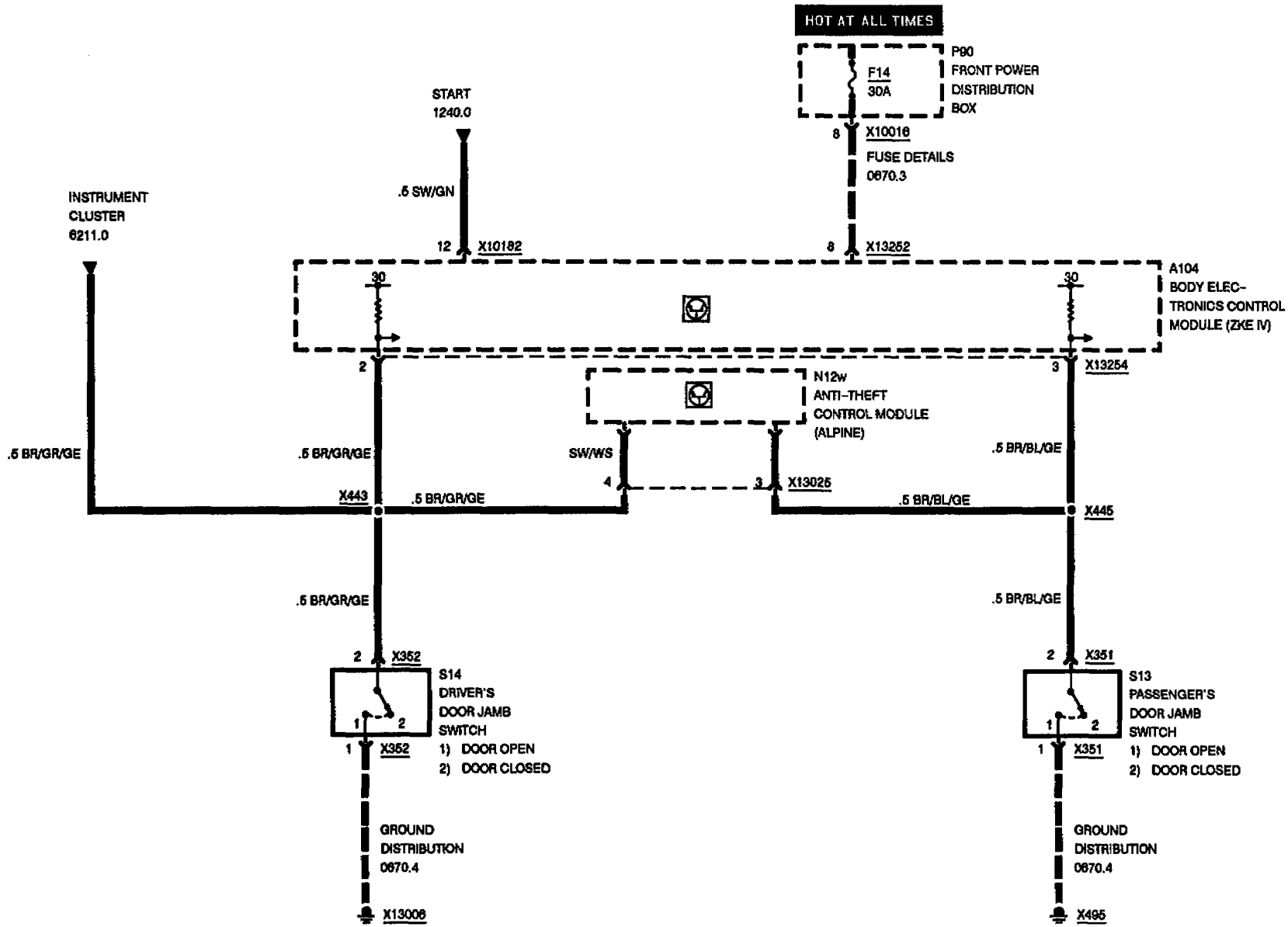
DRIVE–AWAY PROTECTION

LATE PRODUCTION



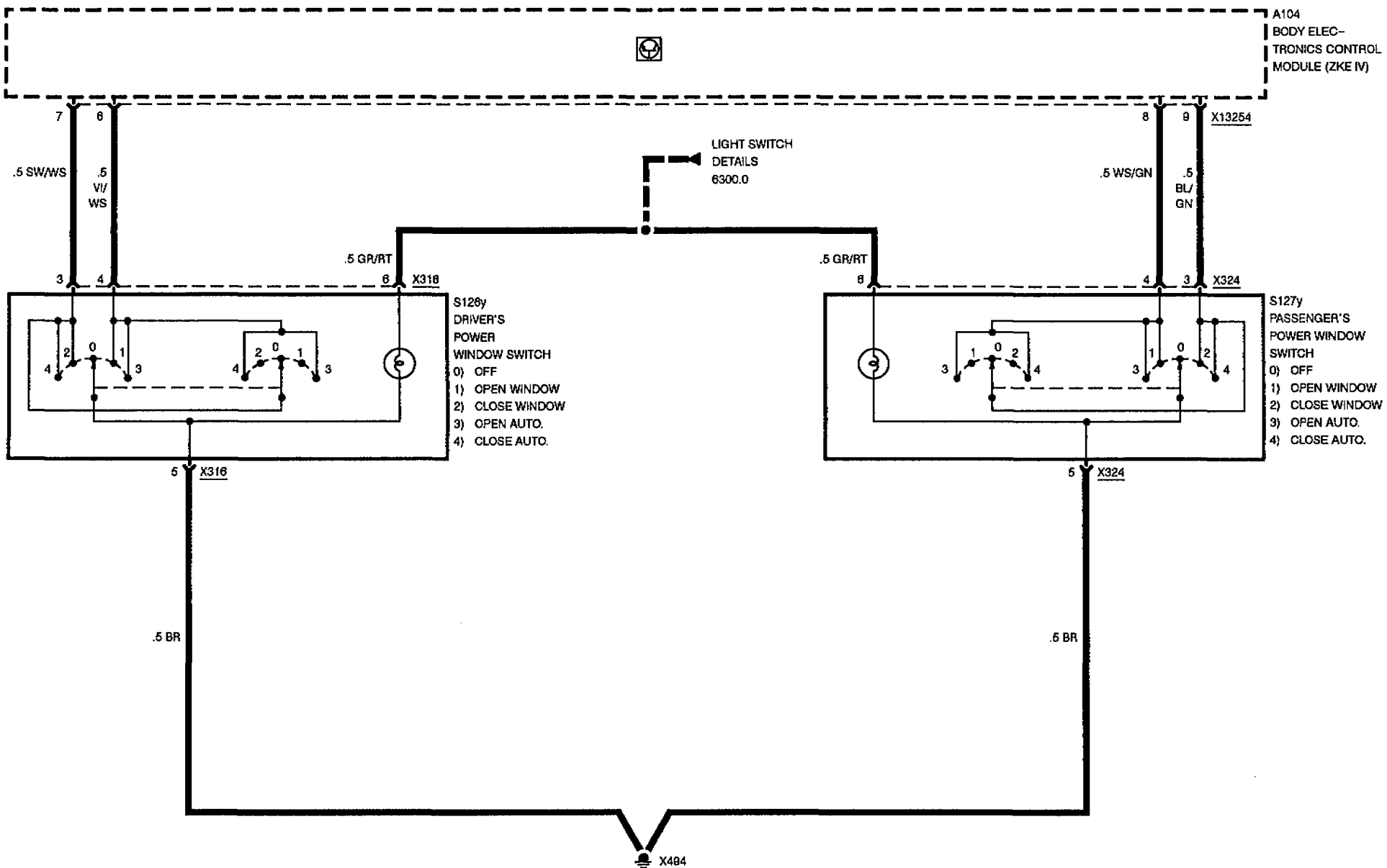
POWER WINDOWS (FH)

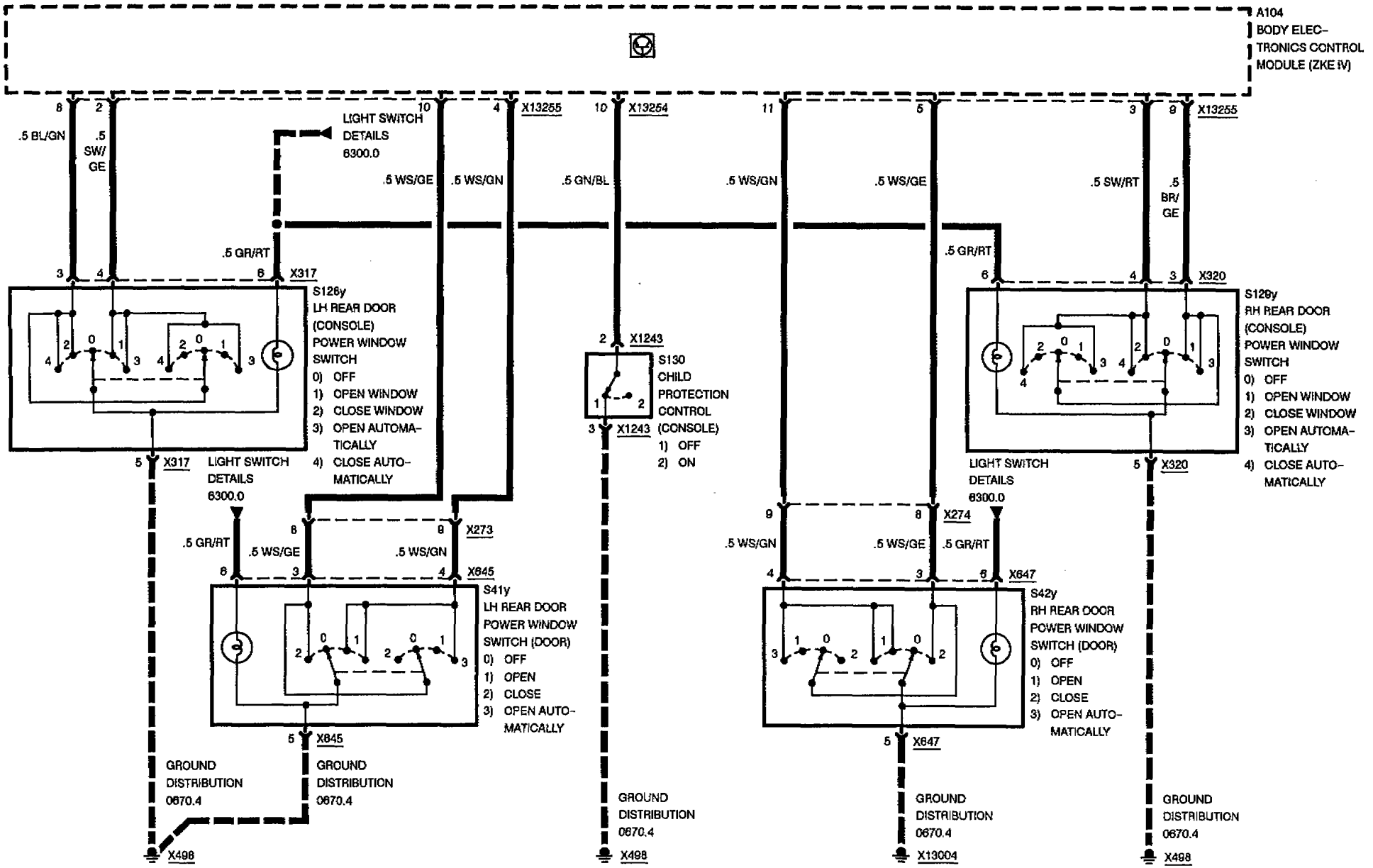
INPUT DETAILS



POWER WINDOWS (FH)

INPUT DETAILS

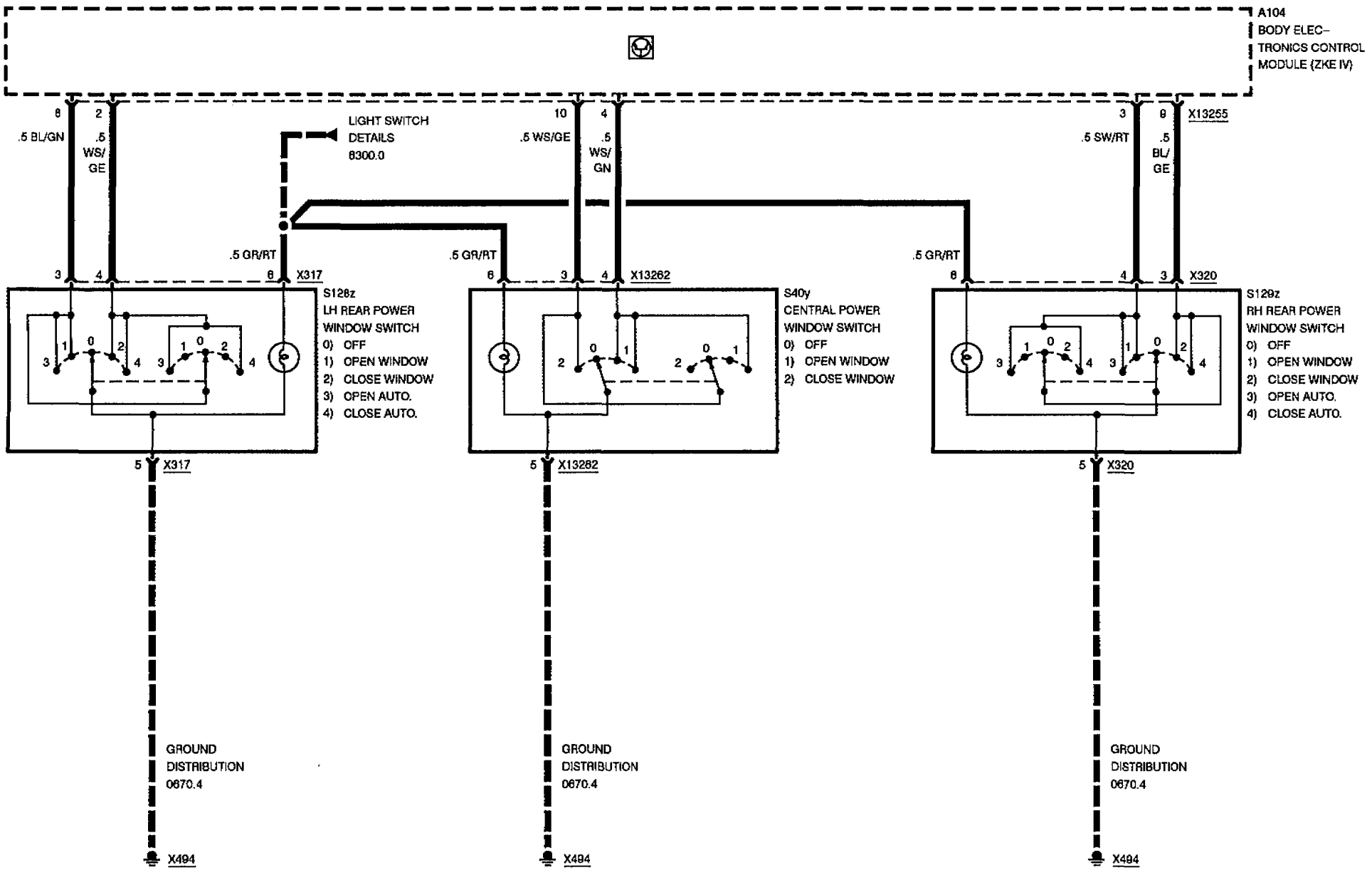



A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
.5 BL/GN
.5 SW/GE
LIGHT SWITCH
DETAILS
6300.0
.5 WS/GE
.5 WS/GN
.5 GN/BL
.5 WS/GN
.5 WS/GE
.5 SW/RT
.5 BR/GE
.5 GR/RT
X13255
X13254
X13255
X317
X320
S126y
LH REAR DOOR
(CONSOLE)
POWER WINDOW
SWITCH
0) OFF
1) OPEN WINDOW
2) CLOSE WINDOW
3) OPEN AUTOMA-
TICALLY
4) CLOSE AUTO-
MATICALLY
X1243
S130
CHILD
PROTECTION
CONTROL
(CONSOLE)
1) OFF
2) ON
S126y
RH REAR DOOR
(CONSOLE)
POWER WINDOW
SWITCH
0) OFF
1) OPEN WINDOW
2) CLOSE WINDOW
3) OPEN AUTOMA-
TICALLY
4) CLOSE AUTO-
MATICALLY
LIGHT SWITCH
DETAILS
6300.0
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
.5 WS/GE
.5 WS/GN
.5 WS/GN
.5 WS/GE
.5 GR/RT
X273
X645
X274
X647
S41y
LH REAR DOOR
POWER WINDOW
SWITCH (DOOR)
0) OFF
1) OPEN
2) CLOSE
3) OPEN AUTO-
MATICALLY
S42y
RH REAR DOOR
POWER WINDOW
SWITCH (DOOR)
0) OFF
1) OPEN
2) CLOSE
3) OPEN AUTO-
MATICALLY
X845
X647
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X498
X498
X13004
X498

POWER WINDOWS (FH)

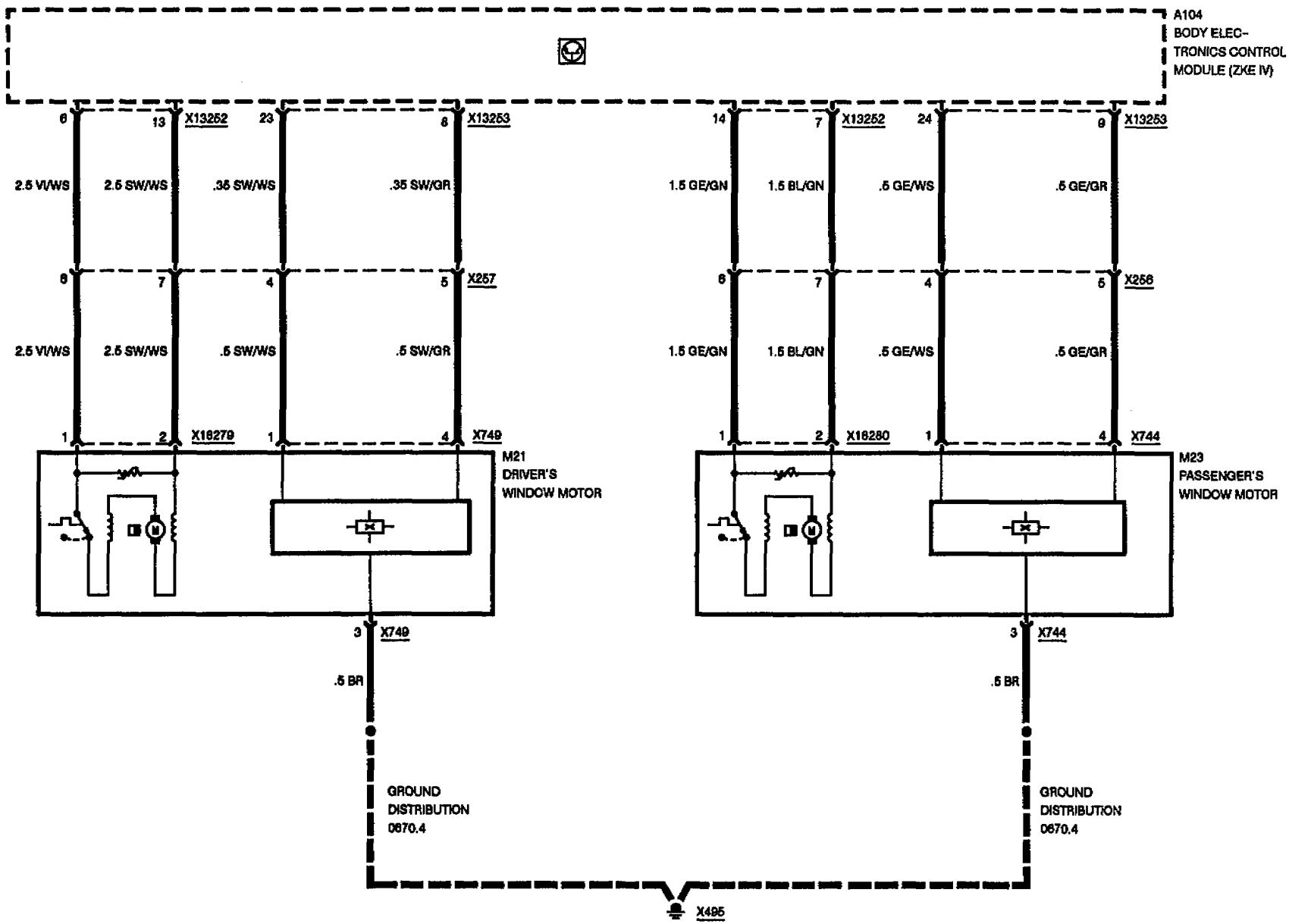
TWO-DOOR

INPUT DETAILS



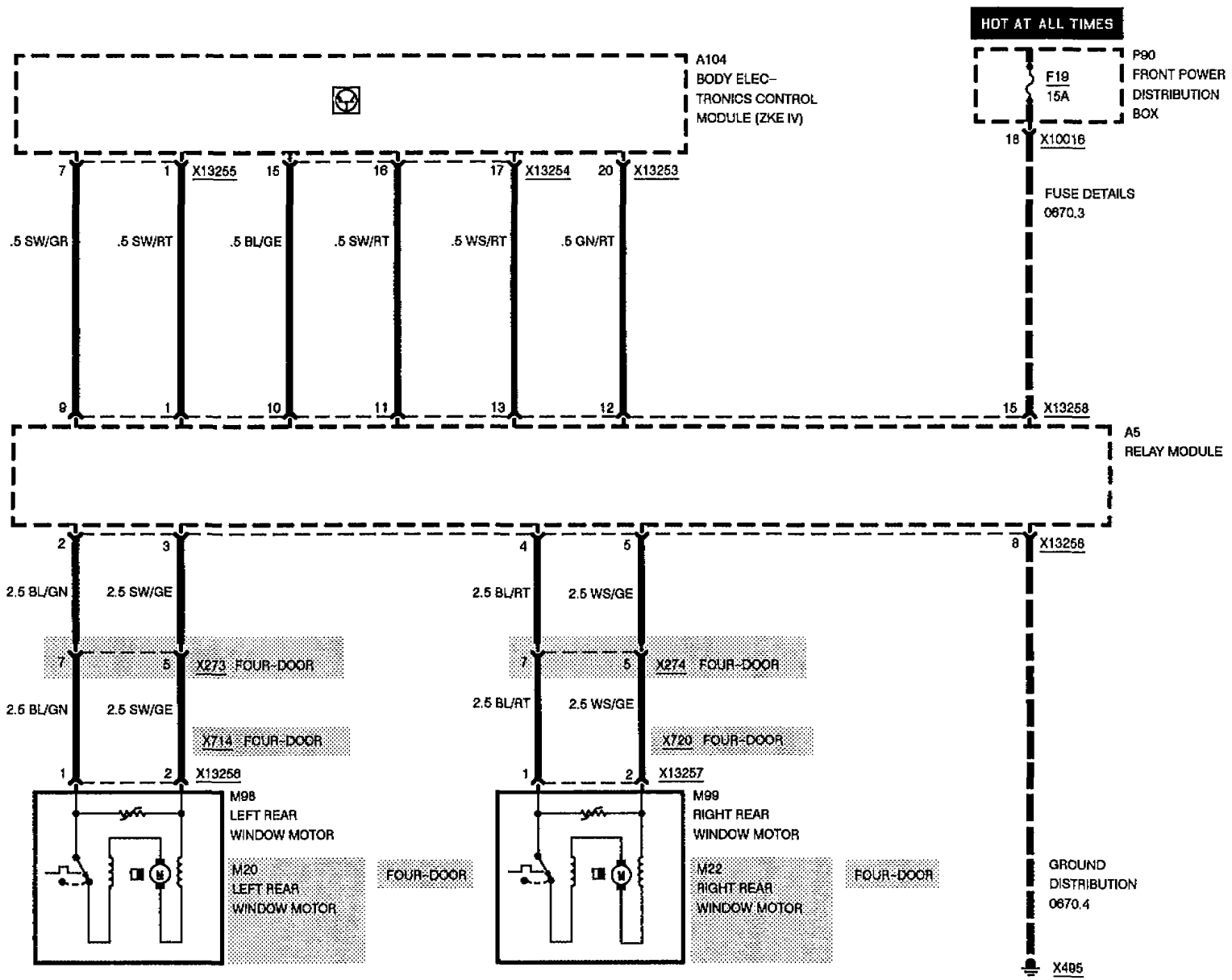
POWER WINDOWS (FH)

OUTPUT DETAILS



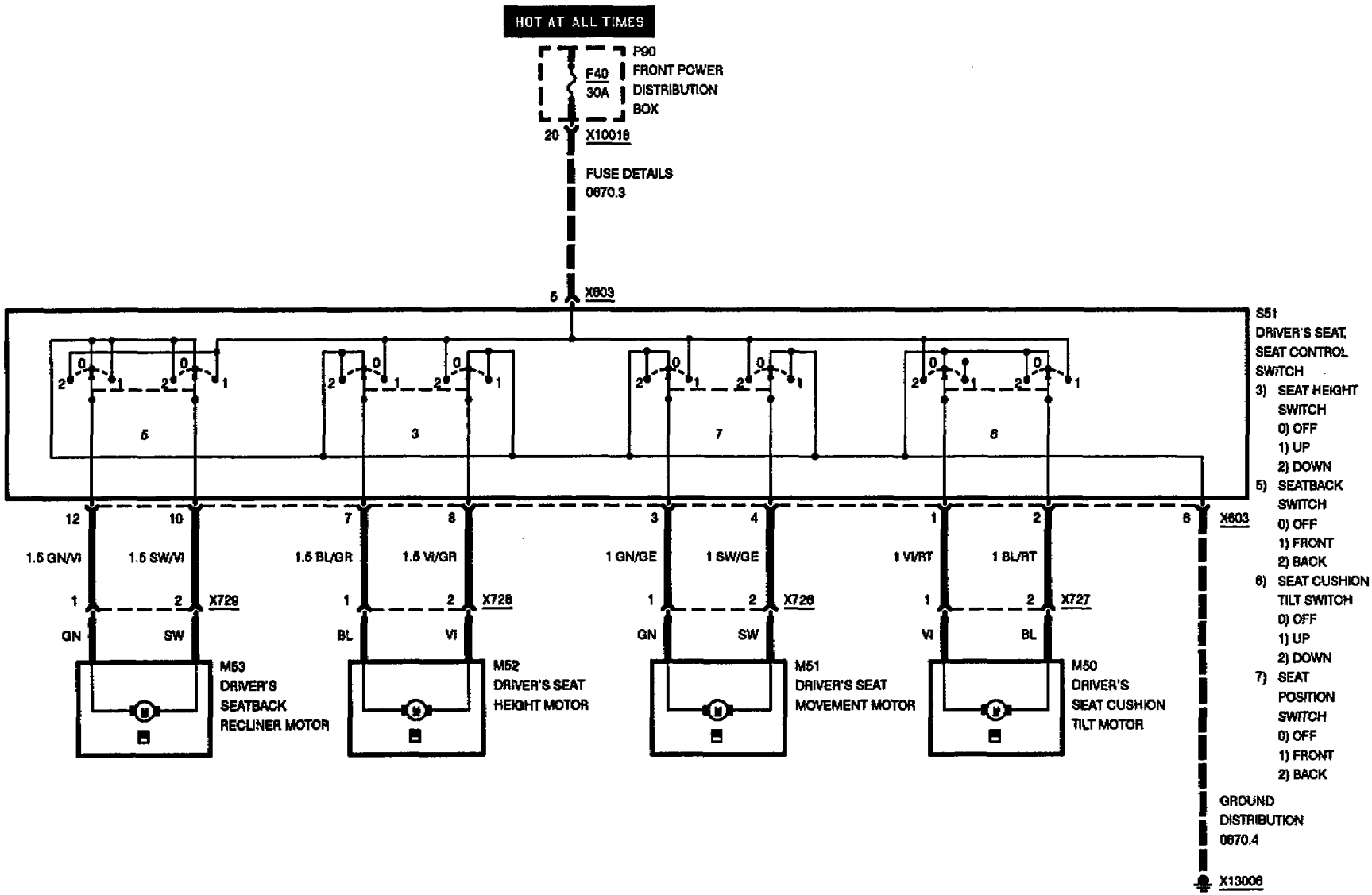
POWER WINDOWS (FH)

OUTPUT DETAILS



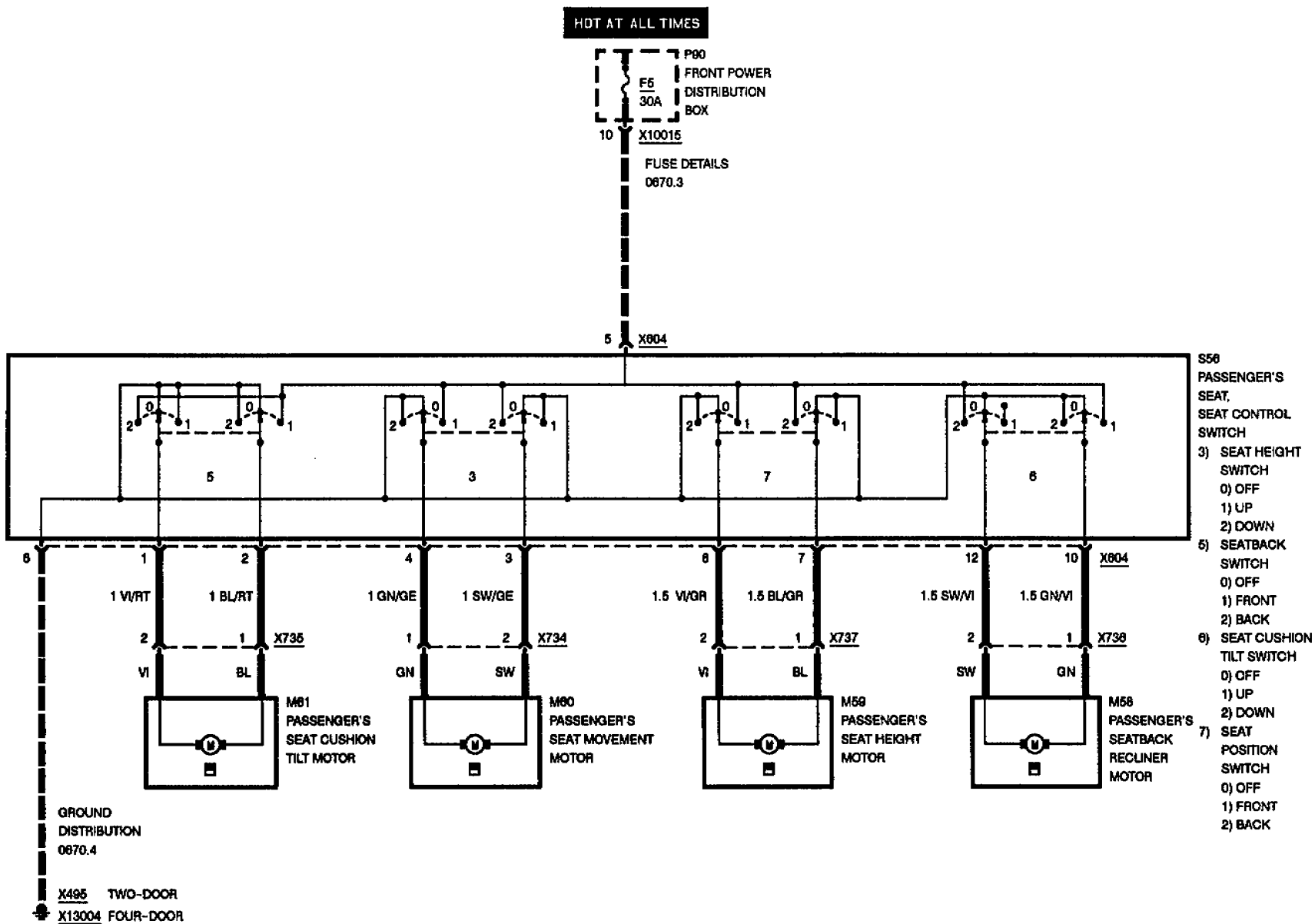
POWER SEATS

DRIVER'S SEAT

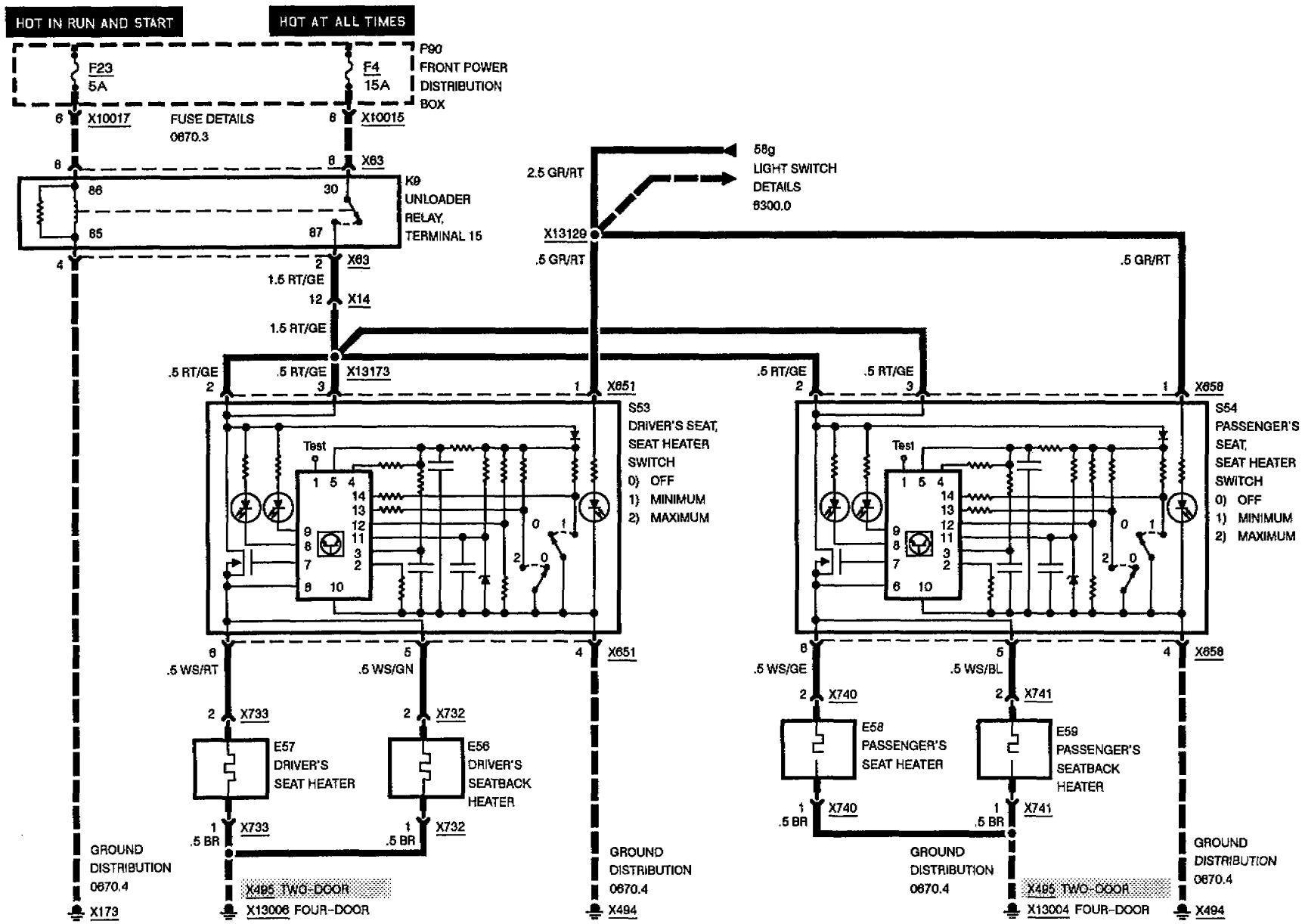


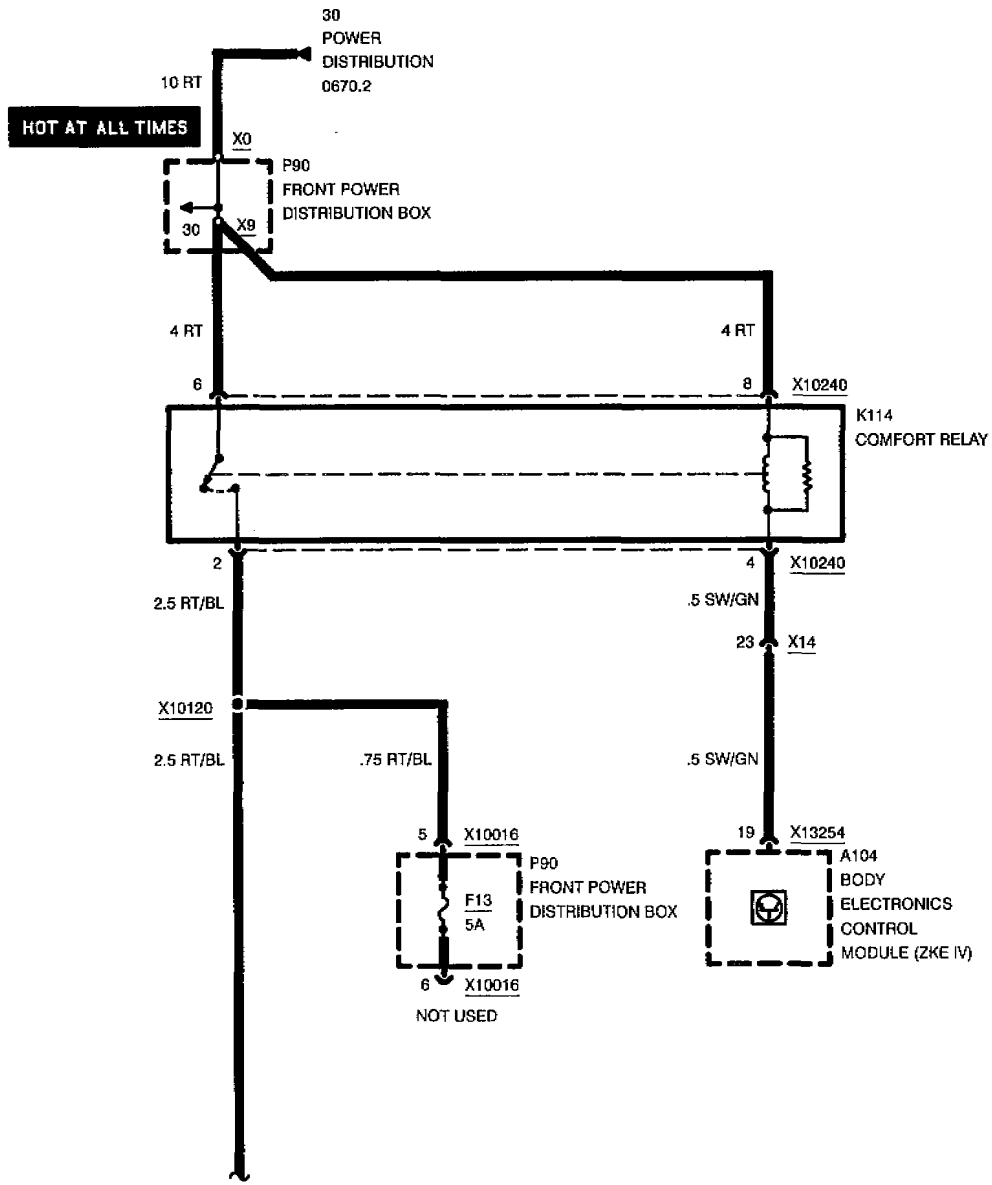
POWER SEATS

PASSENGER'S SEAT

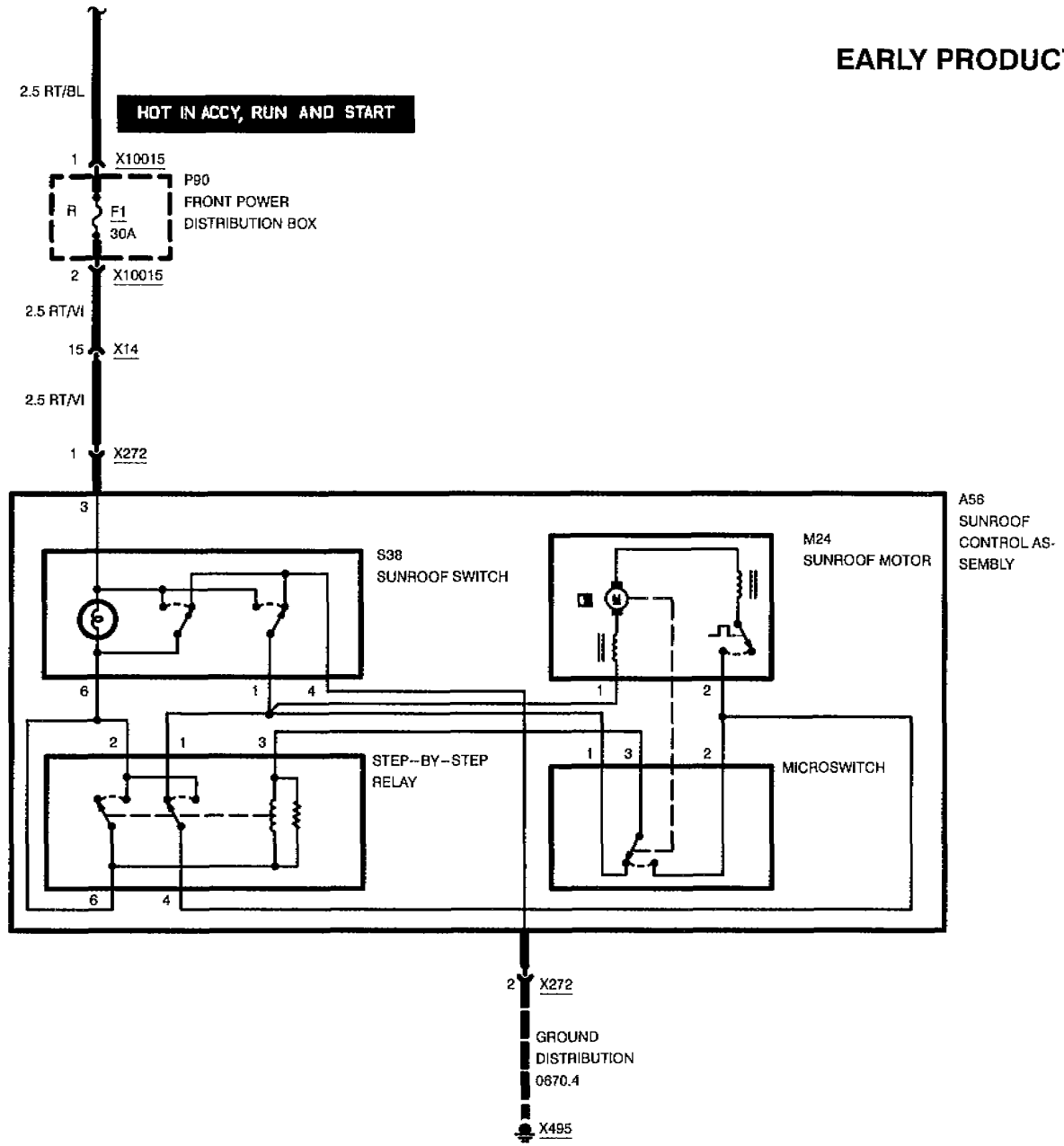


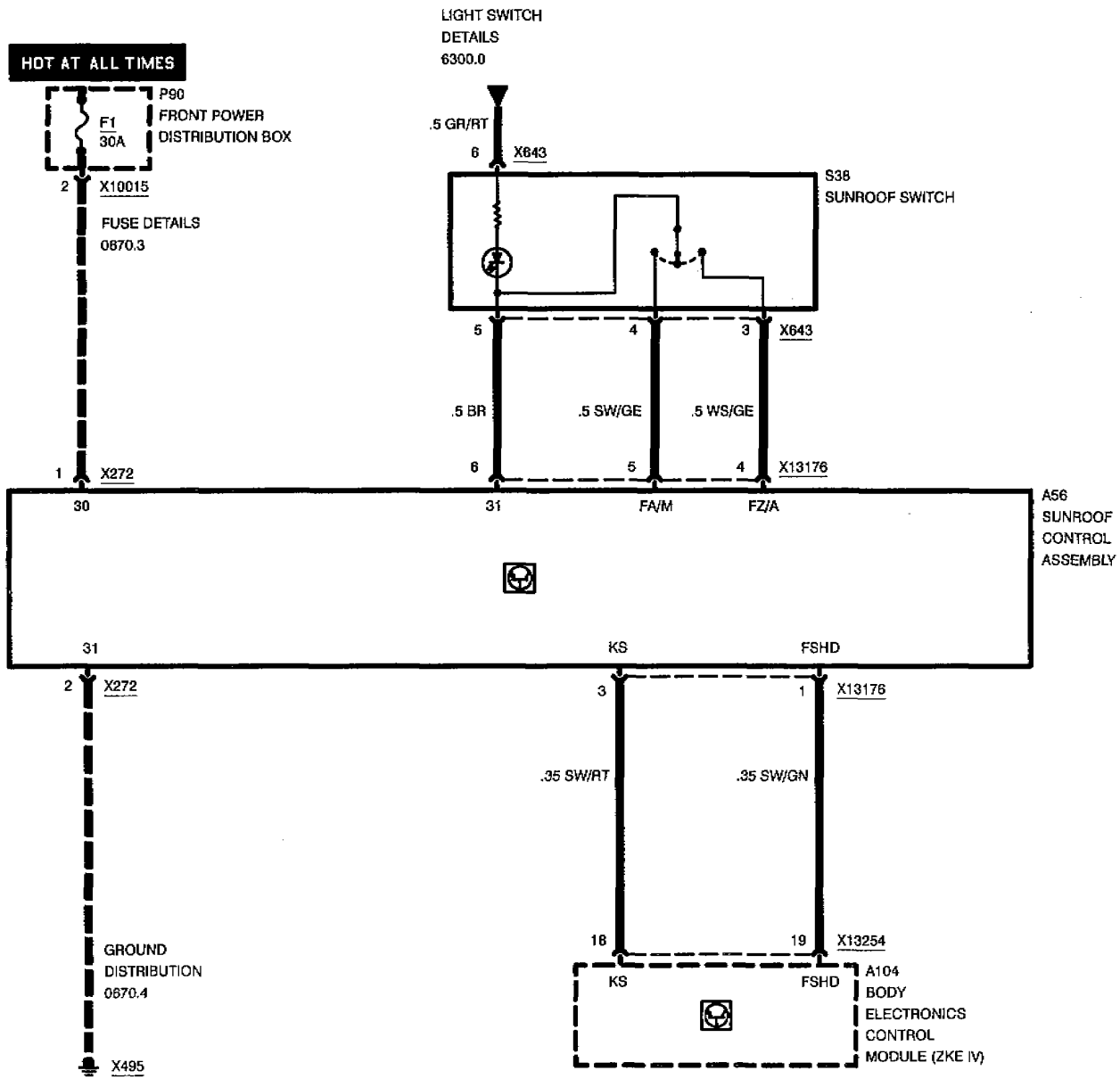
HEATED SEATS



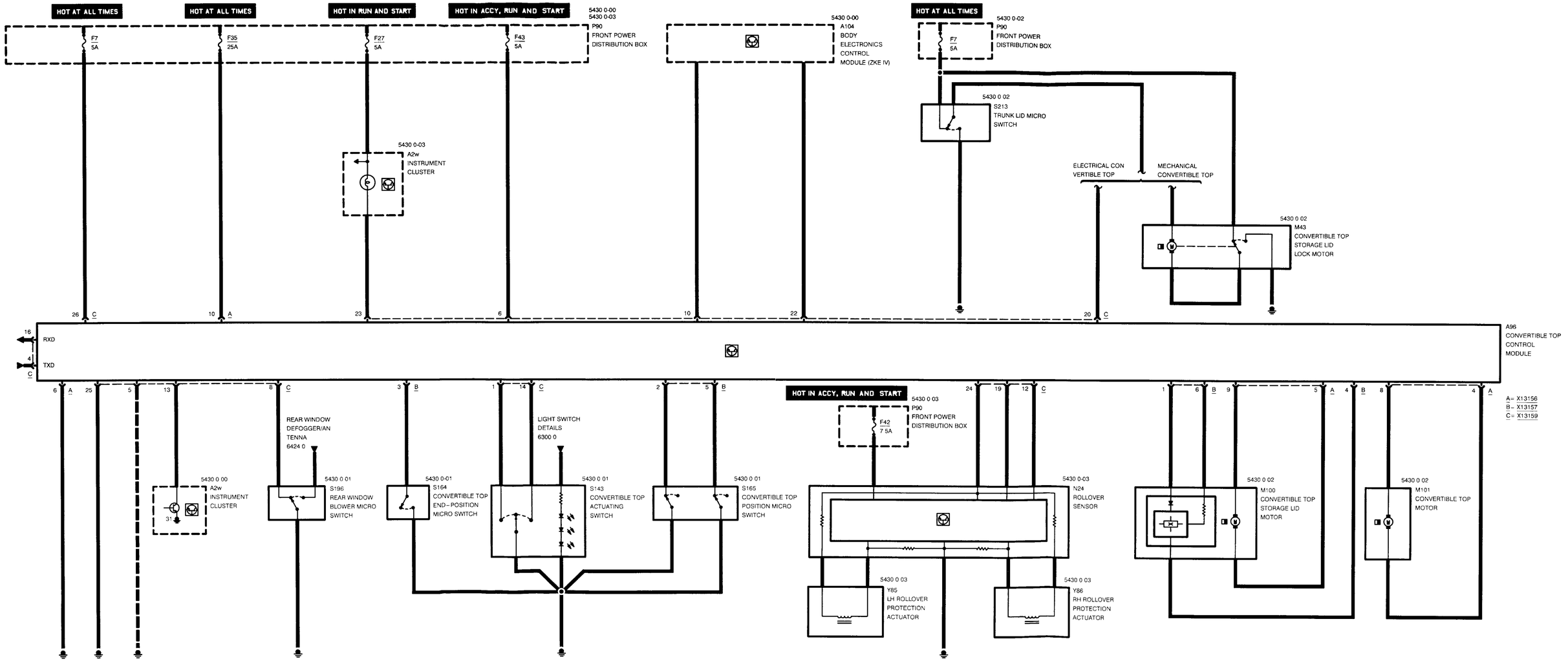

30
POWER
DISTRIBUTION
0670.2
10 RT
HOT AT ALL TIMES
X0
P90
FRONT POWER
DISTRIBUTION BOX
30
X9
4 RT
4 RT
6
8
X10240
K114
COMFORT RELAY
2
4
X10240
2.5 RT/BL
.5 SW/GN
23
X14
X10120
2.5 RT/BL
.75 RT/BL
.5 SW/GN
5
X10016
19
X13254
P90
FRONT POWER
DISTRIBUTION BOX
F13
5A
A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)
6
X10016
NOT USED

EARLY PRODUCTION




HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F1
30A
2
X10015
FUSE DETAILS
0670.3
1
X272
30
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
6
X643
S38
SUNROOF SWITCH
5
4
3
X643
.5 BR
.5 SW/GE
.5 WS/GE
6
5
4
X13176
31
FA/M
FZ/A
A56
SUNROOF
CONTROL
ASSEMBLY
31
2
X272
KS
FSHD
3
1
X13176
.35 SW/RT
.35 SW/GN
18
19
X13254
KS
FSHD
A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)
GROUND
DISTRIBUTION
0670.4
X495

09/94 5430 0 1995
09/94 5430 0 1995



Pin Assignments

A = X13156
B = X13157
C = X13159

X13156

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground
7		Not used	
8	E/A	Control signal	Convertible top motor
9	E/A	Control signal	Convertible top storage lid motor
10	E	Plus supply 12V	Front power distribution box

X13157

Pin	Type	Description/Function	Connection
1	A	Plus supply	Position sensor (convertible top storage lid motor)
2	E	Position signal	Convertible top position micro switch
3	E	Position signal	Convertible top end position micro switch
4	E	Component ground	Position sensor (convertible top storage lid motor)
5	E	Position signal	Convertible top position micro switch
6	E	Control signal	Position sensor (convertible top storage lid motor)

E = Input, A = Output, M = Ground

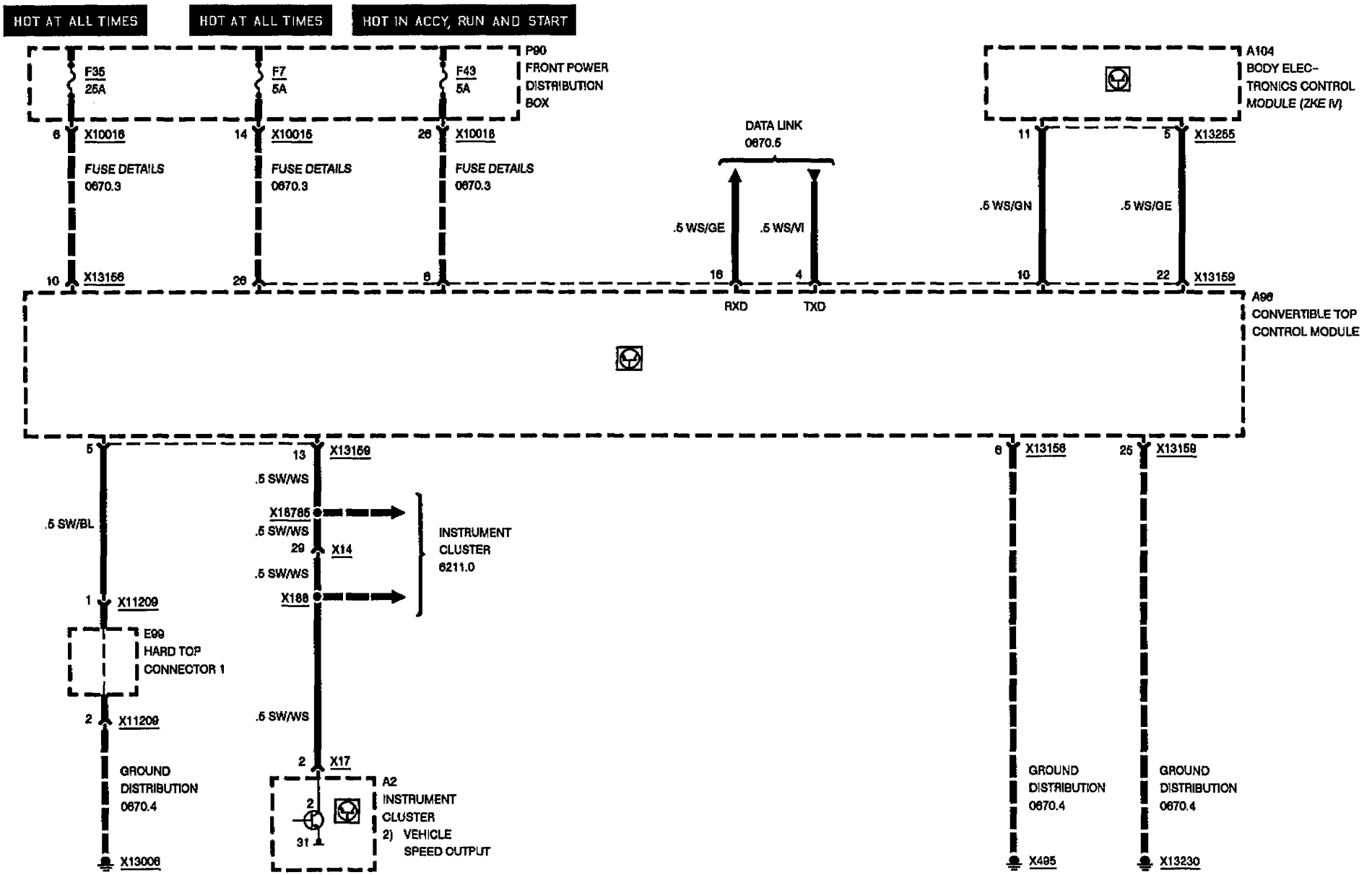
Pin Assignments

X13159

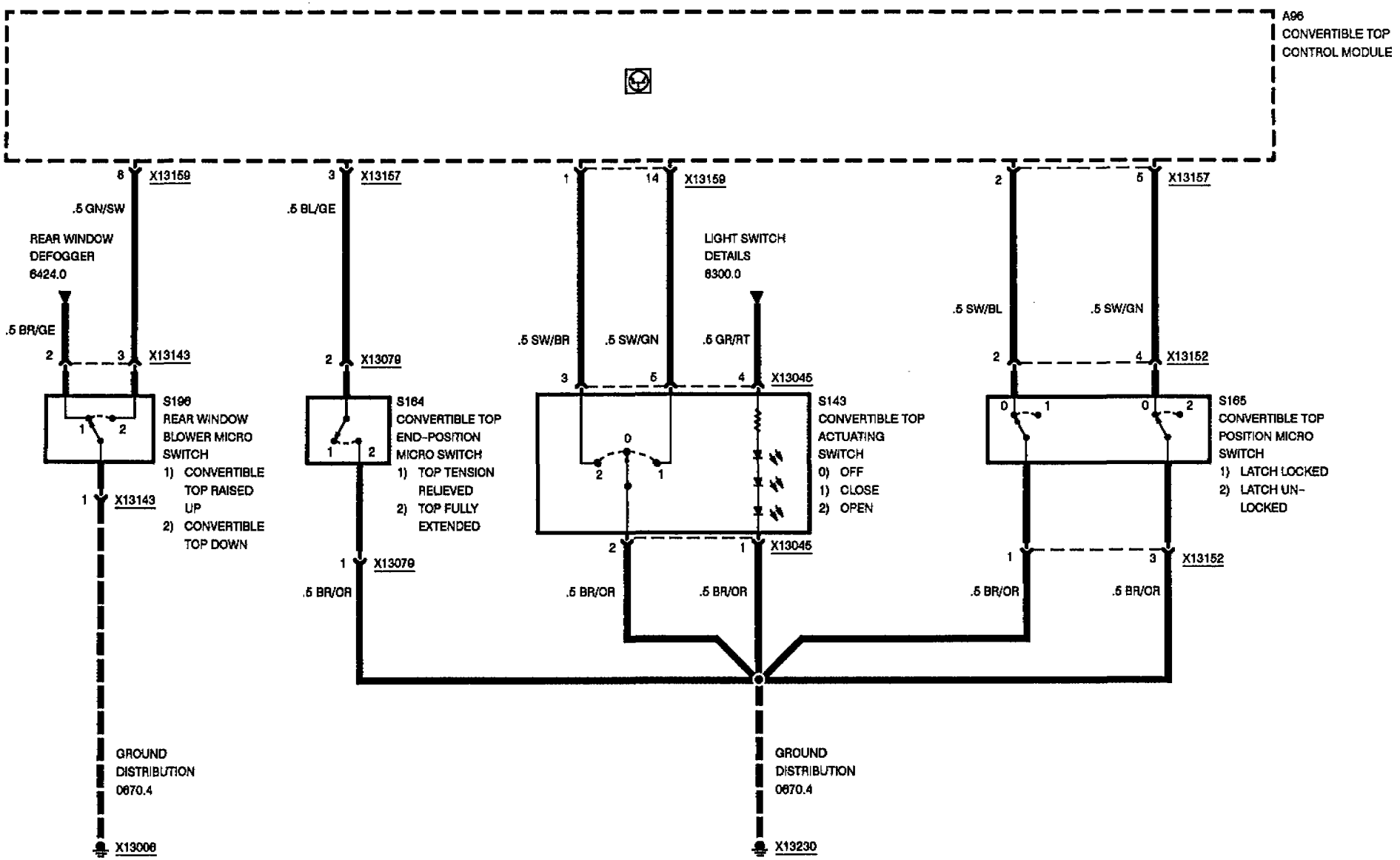
Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box
7		Not used	
8	E	Rear window blower signal	Rear window blower micro switch
9		Not used	
10	A	Data signal	Body electronics control module
11		Not used	
12	A	Data signal	Roll over sensor
13	A	Speed signal	Instrument cluster
14	E	Top closed signal	Convertible top actuating switch
15		Not used	
16	A	RxD data signal	Data link connector
17		Not used	
18		Not used	
19	A	Data signal	Roll over sensor
20	E	Trunk lid signal	Trunk lid micro switch
21		Not used	
22	A	Data signal	Body electronics control module
23	A	Roll over signal	Instrument cluster
24	A	Data signal	Roll over sensor
25	M	Ground	Ground
26	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

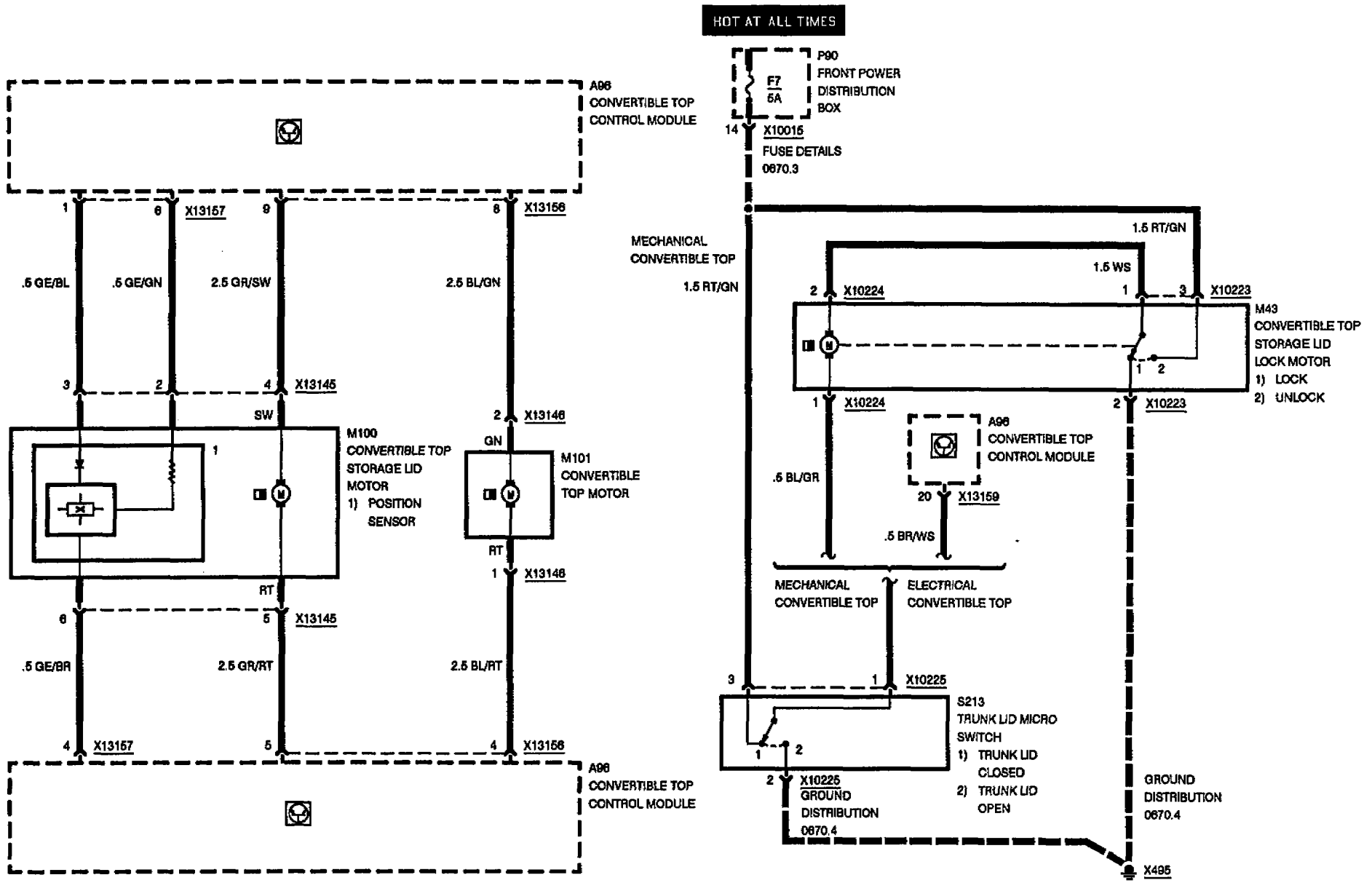
ELECTRO- MECHANICAL CONVERTIBLE TOP



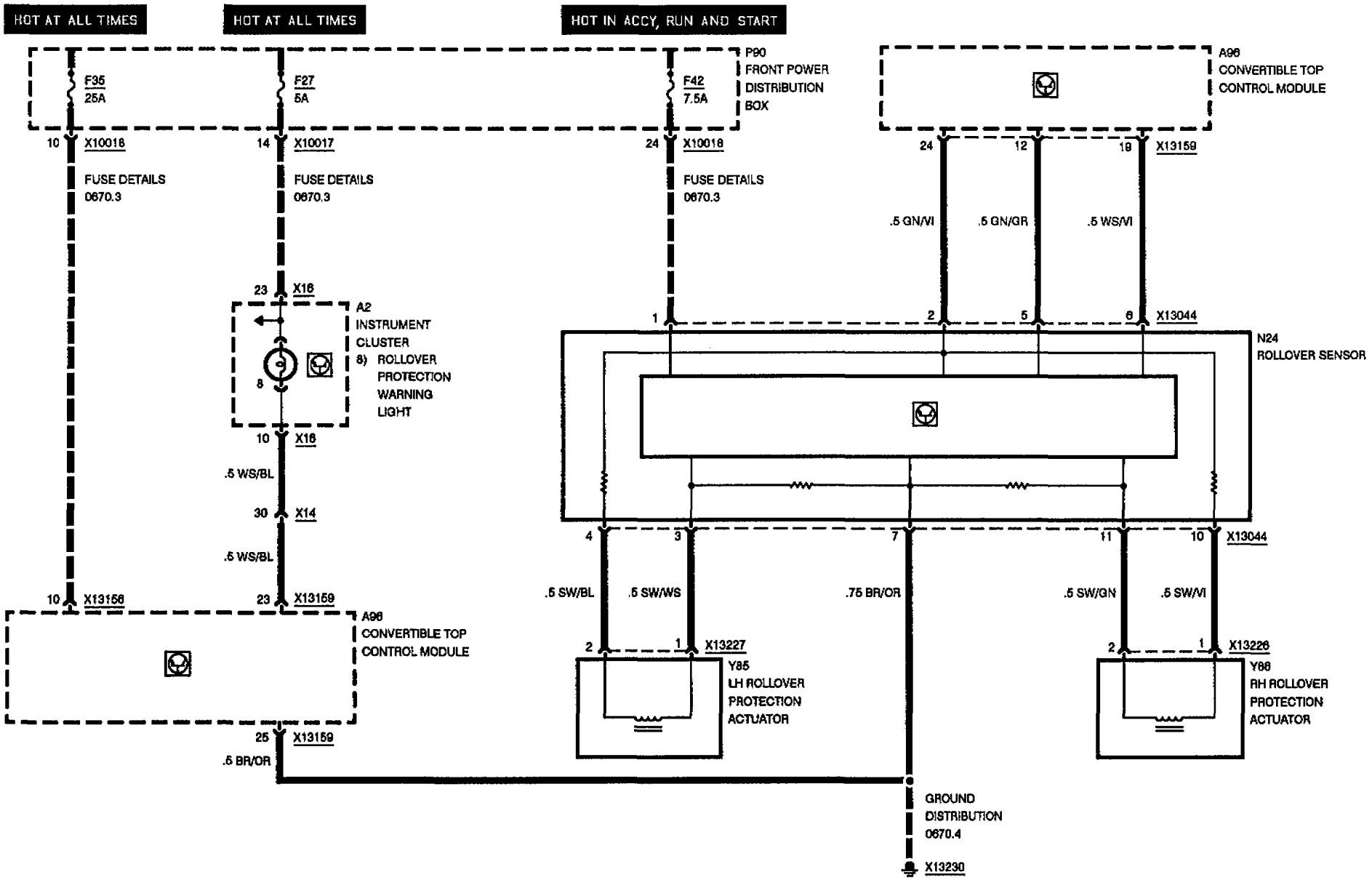
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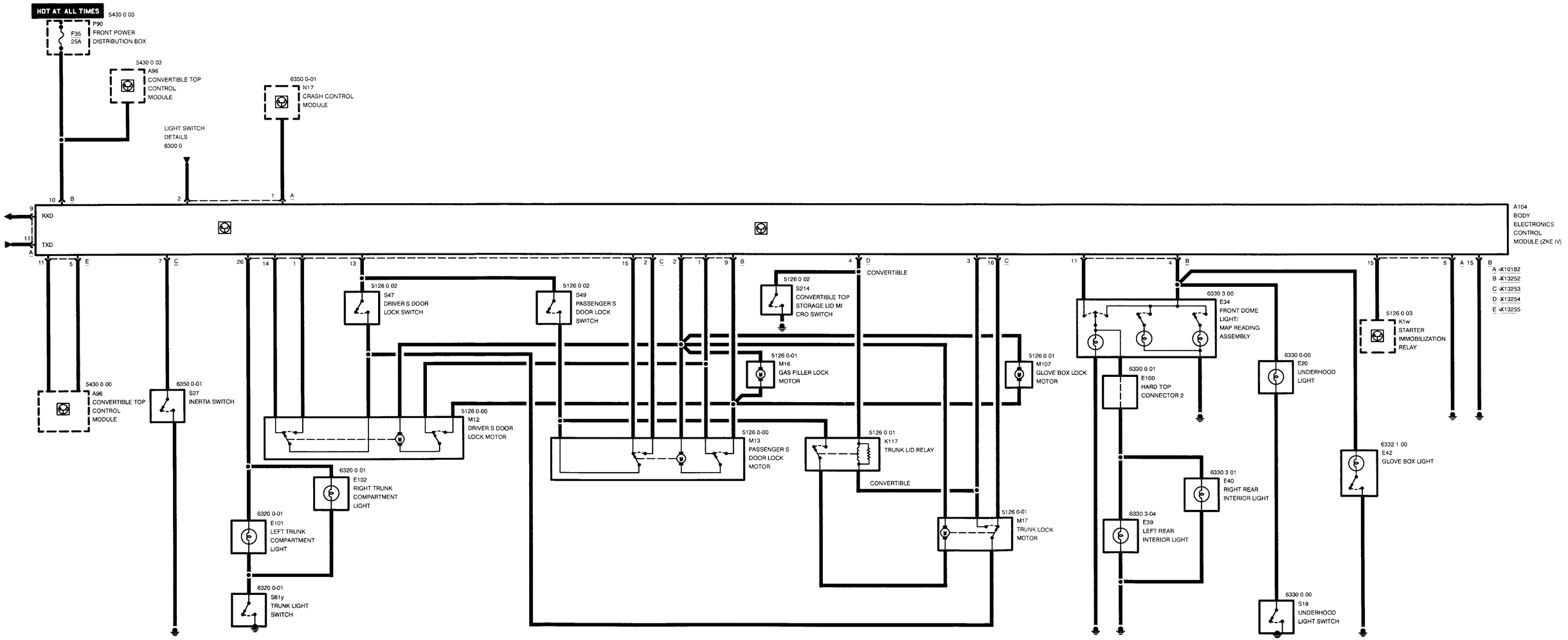
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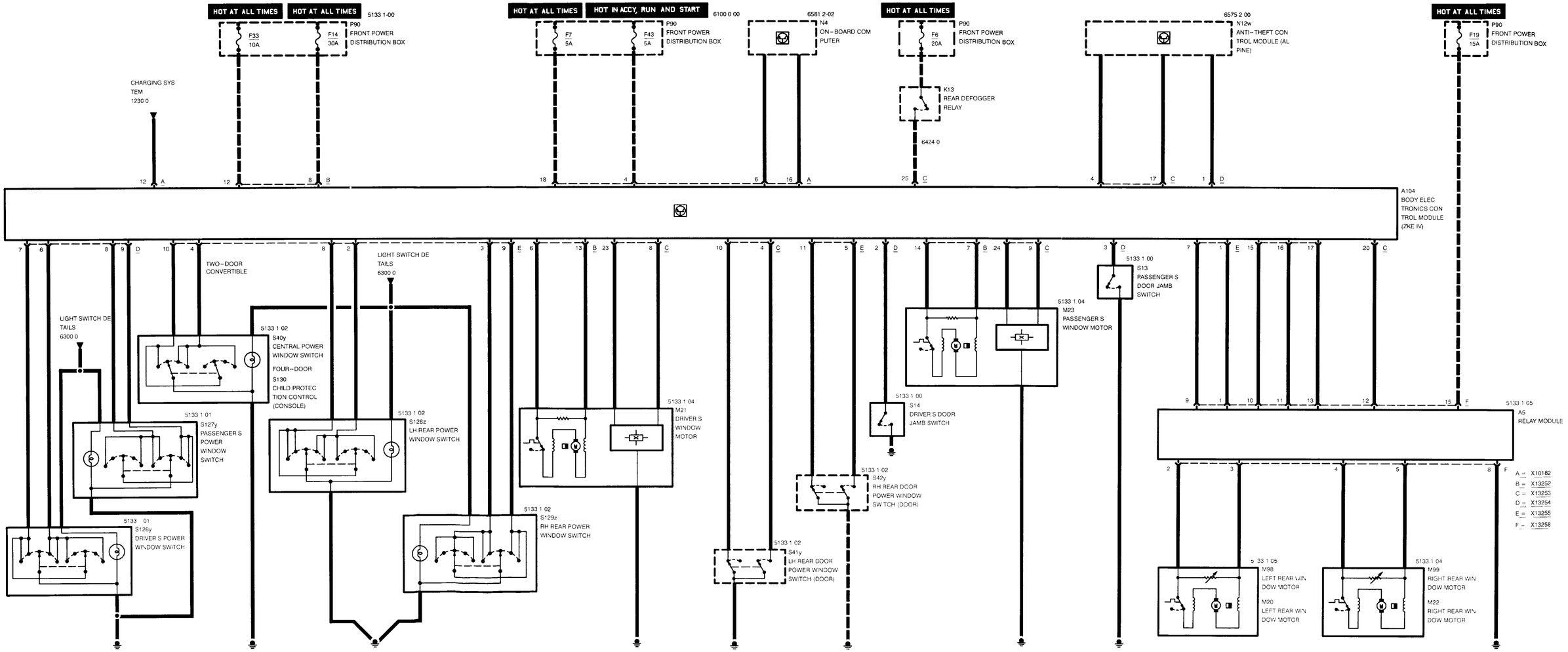
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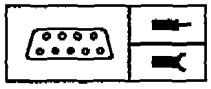


09/94 6100 0a 1995
09/94 6100 0a 1995



09/94 6100 0b 1995
09/94 6100 0b 1995





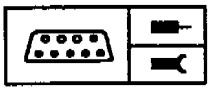
Pin Assignments

A = X10182
B = X13252
C = X13253
D = X13254
E = X13255
F = X13258

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3	E	Power supply	Front power distribution box
4	E	Power supply	Front power distribution box
5	M	Ground	Ground
6		Not used	
7	A	Anti-theft signal	Alpine alarm horn relay
8	E	Glove box signal	Glove box light
9	A	Diagnosis RxD - signal	Data Link connector
10		Not used	
11	E/A	Diagnosis TxD - signal	Data link connector
12	E	KL30h	Starter
13		Not used	
14		Not used	
15	A	Drive away protection	Starter Immobilization Relay
16		Not used	
17	E	Hood signal	Hood micro switches
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



Pin Assignments

X13252

Pin	Type	Description/Function	Connection
1	E	Power lock signal	Door lock motors
2	A	Voltage supply	All lock motors
3		Not used	
4	E	Automatic interior light signal	Interior light
5		Not used	
6	A	Voltage supply	Power window motor driver's door
7	A	Voltage supply	Power window motor passenger's door
8	E	Power supply	Front power distribution box
9	E	Lock signal	Lock motor & trunk lid relay
10	E	Power supply	Front power distribution box
11	A	Voltage supply	Interior lights, engine comp light glove box light
12	E	Power supply	Front power distribution box
13	E	Motor signal	Power window motor driver's door
14	E	Motor signal	Power window motor passenger's door
15	M	Ground	Ground

X13253

Pin	Type	Description/Function	Connection
1	E	Position signal	Door lock motor driver's door
2	E	Position signal	Door lock motor passenger s door
3	E	Lock signal trunk lid	Trunk lid lock motor, trunk lid relay
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Inertia switch
8	E	Revolution signal	Power window motor driver s door
9	E	Revolution signal	Power window motor passenger's door
10		Not used	

E = Input A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal driver s door	Door lock motor driver's door
15	E	Lock signal passenger's door	Door lock motor passenger s door
16	E	Lock signal trunk lid	Trunk lid lock motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19		Not used	
20	E/A	Data signal	Relay module
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window s motor driver's side
24	A	Voltage supply (revolution)	Power window's motor passenger s side
25		Not used	
26	A	Voltage supply	Luggage compartment lights

X13254

Pin	Type	Description/Function	Connection
1		Not used	
2	E	Door - signal	Door jamb switch driver's door
3	E	Door - signal	Door jamb switch passenger s door
4	E	Convertible trunk lid signal Four-door door-signal	Trunk lid switch/trunk lid relay Door jump switch left rear
5	E	Door signal	Door jump switch right rear
6	E	OPEN - signal	Power window switch driver's door
7	E	CLOSE - signal	Power window switch driver's door
8	E	OPEN - signal	Power window switch passenger's door
9	E	CLOSE - signal	Power window switch passenger's door
10	E	Four-door child protection signal	child protection switch
11		Not used	

E = Input, A = Output M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
12		Not used	
13		Not used	
14	E	Trunk lid signal	Trunk lid switch
15	A	DATA - signal	Relay module
16	A	DATA - signal	Relay module
17	A	DATA - signal	Relay module
18	A	Convertible DATA - signal	Convertible top control module
19	A	Four-door CORRECT - signal	Comfort relay
20		Not used	
21	A	Convertible DATA - signal	Convertible top control module
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13255

Pin	Type	Description/Function	Connection
1	A	DATA - signal	Relay module
2	E	OPEN - signal	Power window switch left rear
3	E	OPEN - signal	Power window switch right rear
4	E	Convertible OPEN - signal Four-door OPEN - signal	Main power window switch Driver's rear window switch
5	E	Convertible DATA - signal Four-door CLOSE - signal	Convertible top control module Passenger's rear window switch
6		Not used	
7	A	DATA - signal	Relay module
8	E	CLOSE - signal	Power window switch left rear
9	E	CLOSE - signal	Power window switch right rear
10	E	Convertible CLOSE - signal Four-door CLOSE - signal	Main power window switch Driver's window switch

E = Input, A = Output, M = Ground

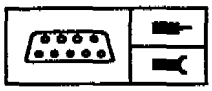
Pin Assignments

Pin	Type	Description/Function	Connection
11	E	Convertible DATA - signal Four-door OPEN - signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13258

Pin	Type	Description/Function	Connection
1	E	DATA – signal	Central body electronic module
2	A	Voltage supply (motor)	Power window motor right rear
3	E	Signal	Power window motor right rear
4	E	Signal	Power window motor left rear
5	A	Voltage supply (motor)	Power window motor left rear
6		Not used	
7		Not used	
8	M	Ground	Ground
9	E	DATA – signal	Central body electronic module
10	E/A	DATA – signal	Central body electronic module
11	E/A	DATA – signal	Central body electronic module

E = Input, A = Output, M = Ground

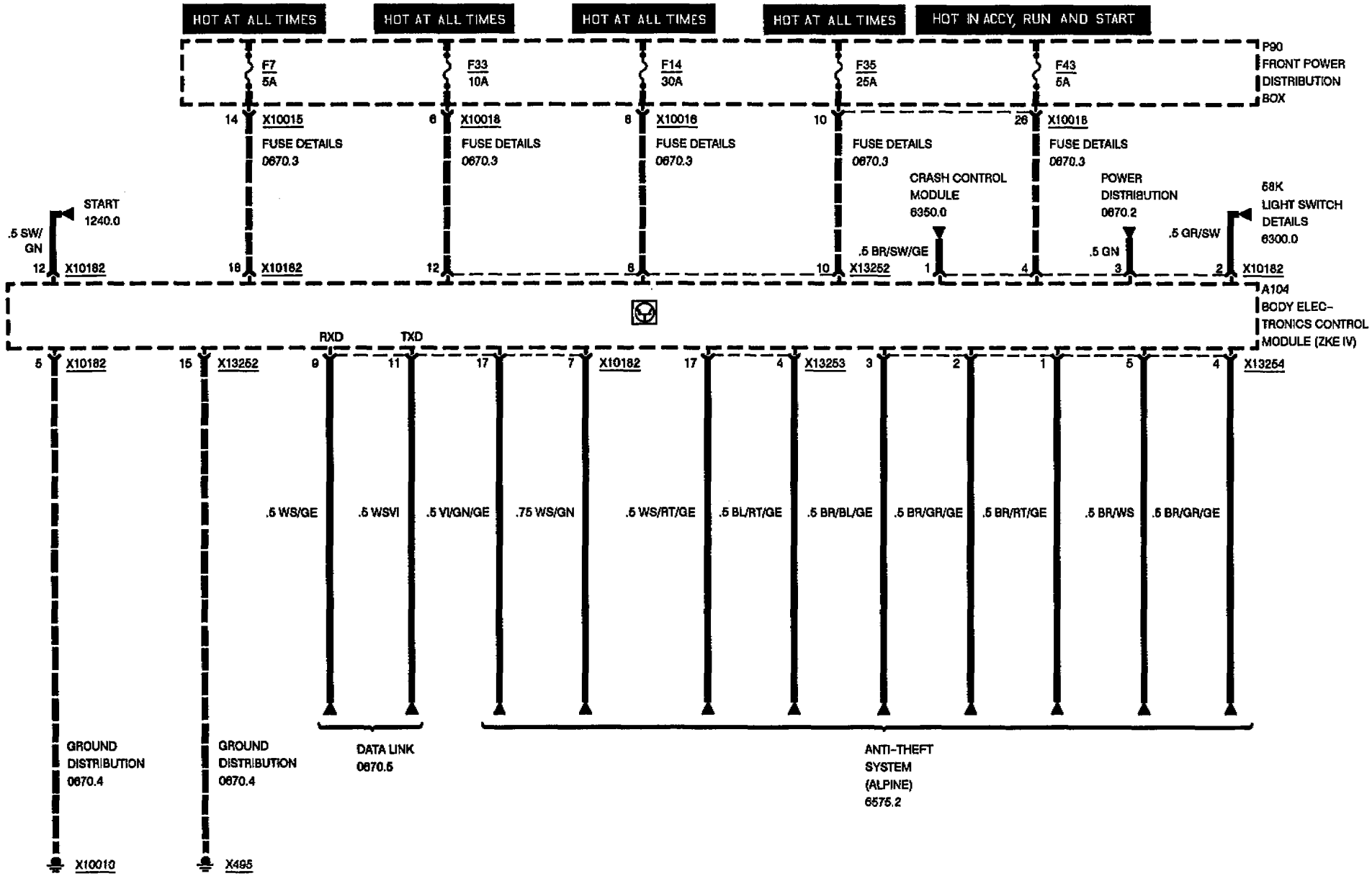


Pin Assignments

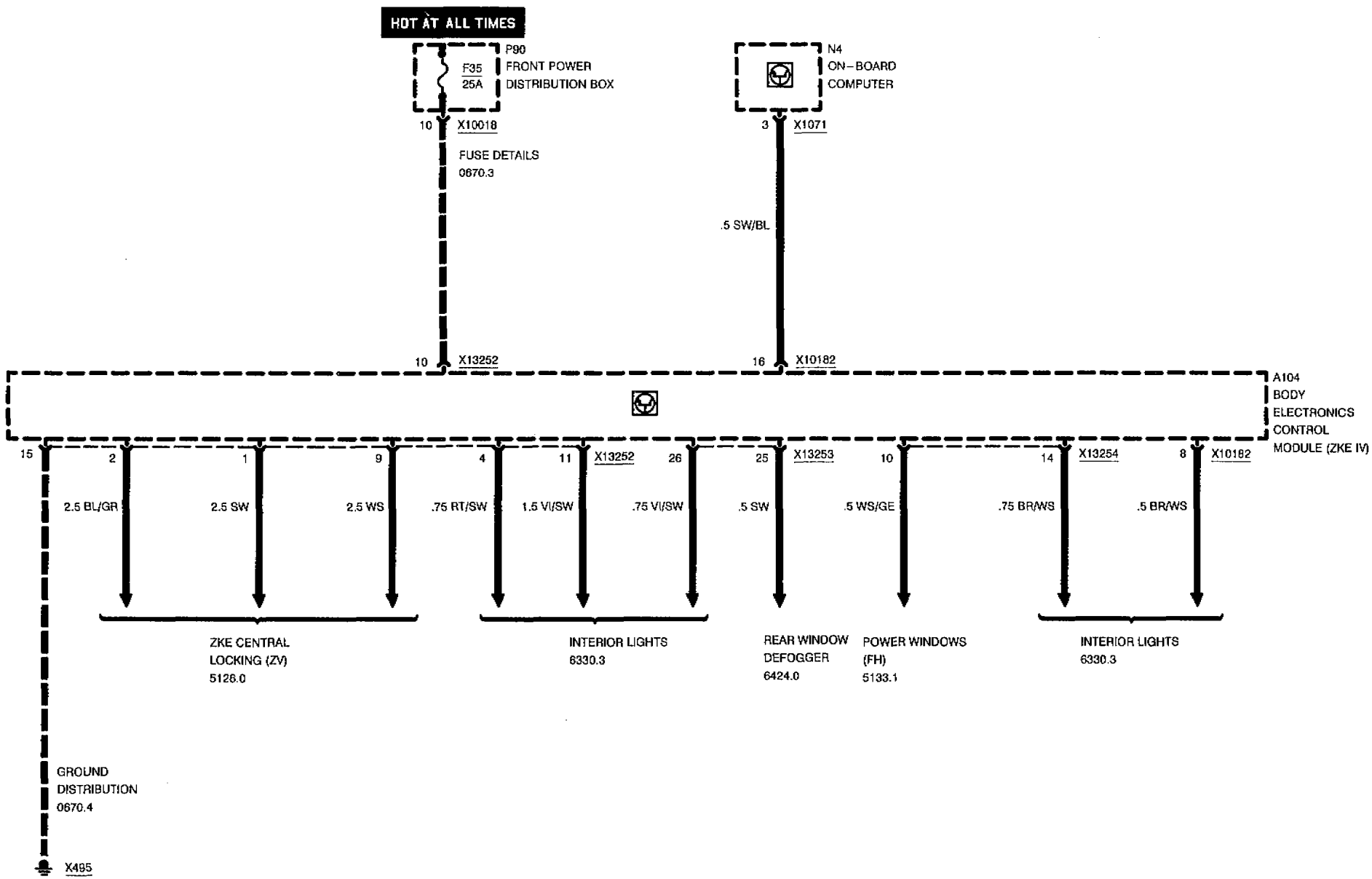
Pin	Type	Description/Function	Connection
12	E	DATA – signal	Central body electronic module
13	E/A	DATA – signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

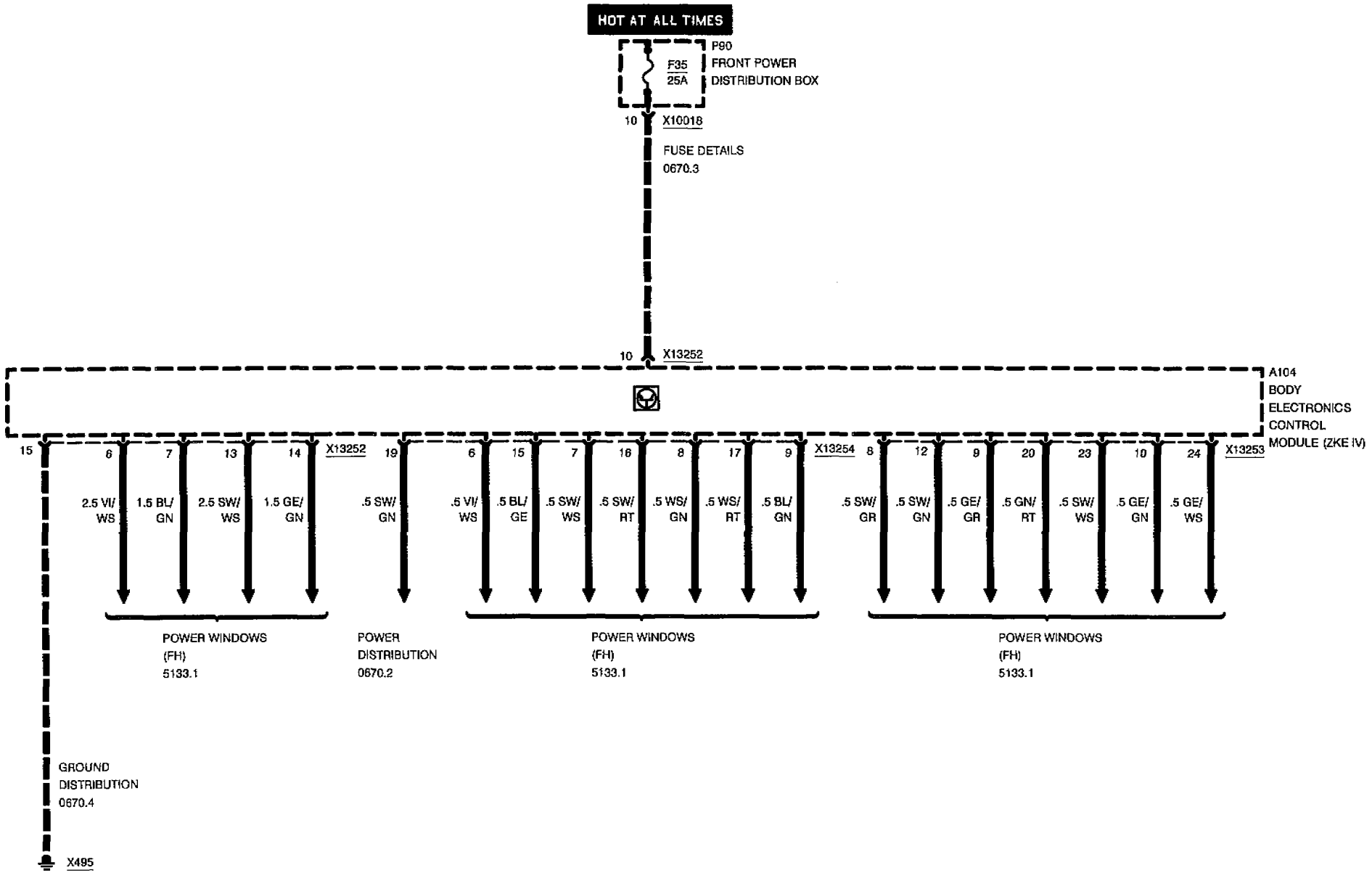
CENTRAL BODY ELECTRONICS (ZKE IV)



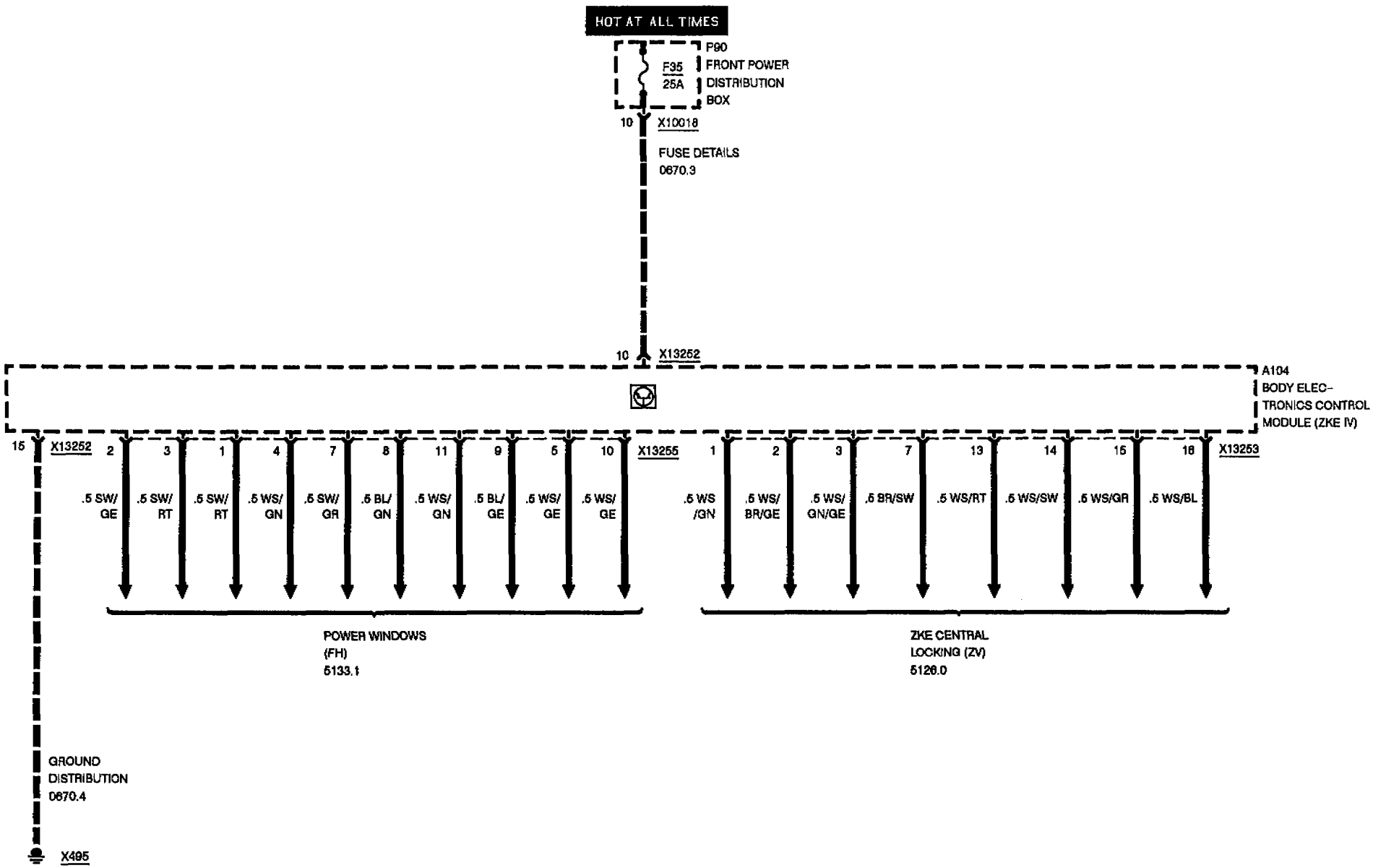
CENTRAL BODY ELECTRONICS (ZKE IV)

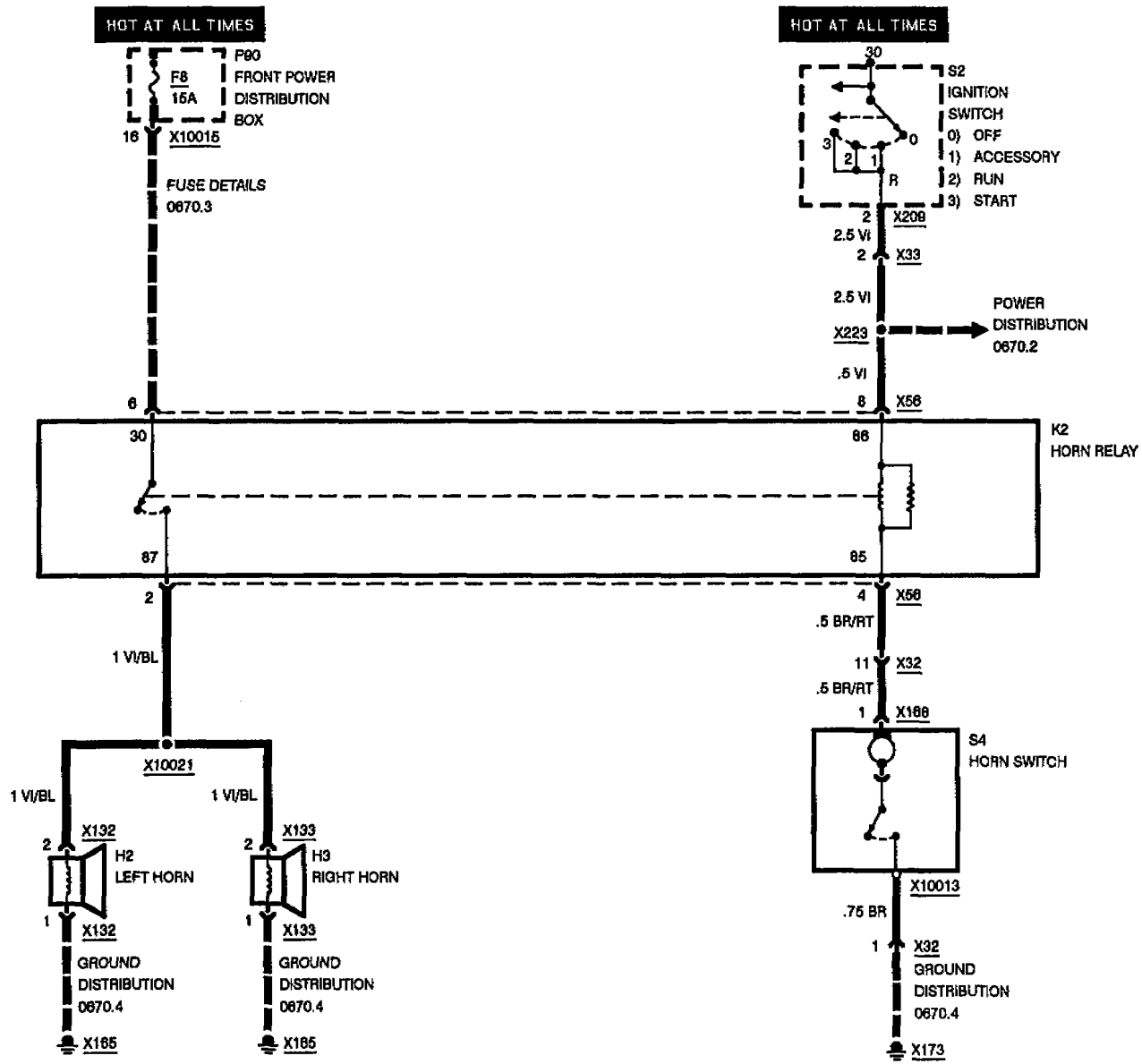


CENTRAL BODY ELECTRONICS (ZKE IV)

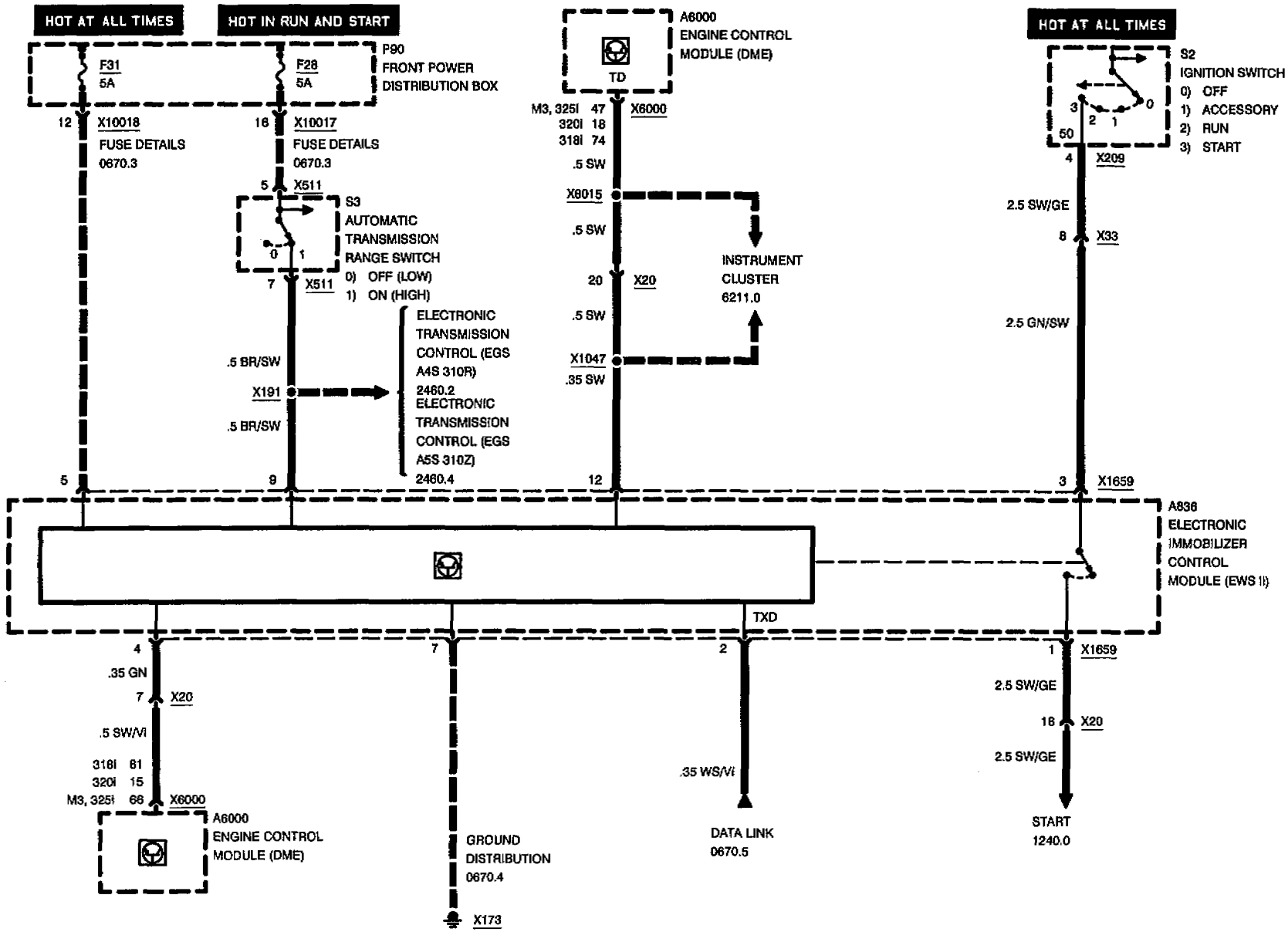


CENTRAL BODY ELECTRONICS (ZKE IV)

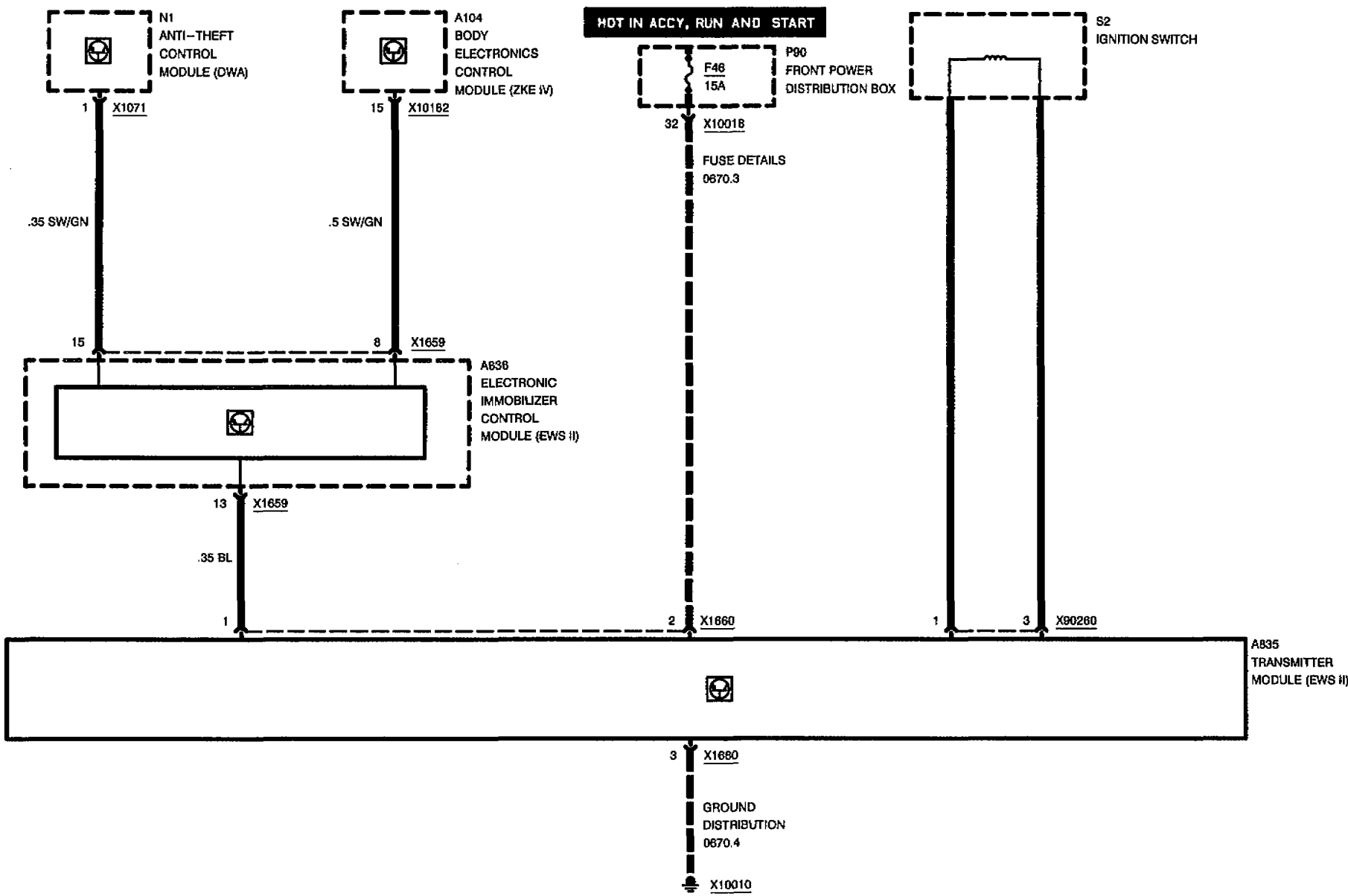



HOT AT ALL TIMES
P90
F8
15A
FRONT POWER DISTRIBUTION BOX
16
X10015
FUSE DETAILS 0670.3
6
30
87
2
1 VI/BL
X10021
1 VI/BL
1 VI/BL
2
X132
H2
LEFT HORN
1
X132
GROUND DISTRIBUTION 0670.4
X165
2
X133
H3
RIGHT HORN
1
X133
GROUND DISTRIBUTION 0670.4
X165
HOT AT ALL TIMES
30
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
3
2
1
0
R
2
X209
2.5 Vi
2
X33
2.5 VI
X223
POWER DISTRIBUTION 0670.2
.5 VI
8
X56
86
85
K2
HORN RELAY
4
X56
.5 BR/RT
11
X32
.5 BR/RT
1
X166
S4
HORN SWITCH
X10013
.75 BR
1
X32
GROUND DISTRIBUTION 0670.4
X173

DRIVE–AWAY PROTECTION (EWS II)



DRIVE–AWAY PROTECTION (EWS II)

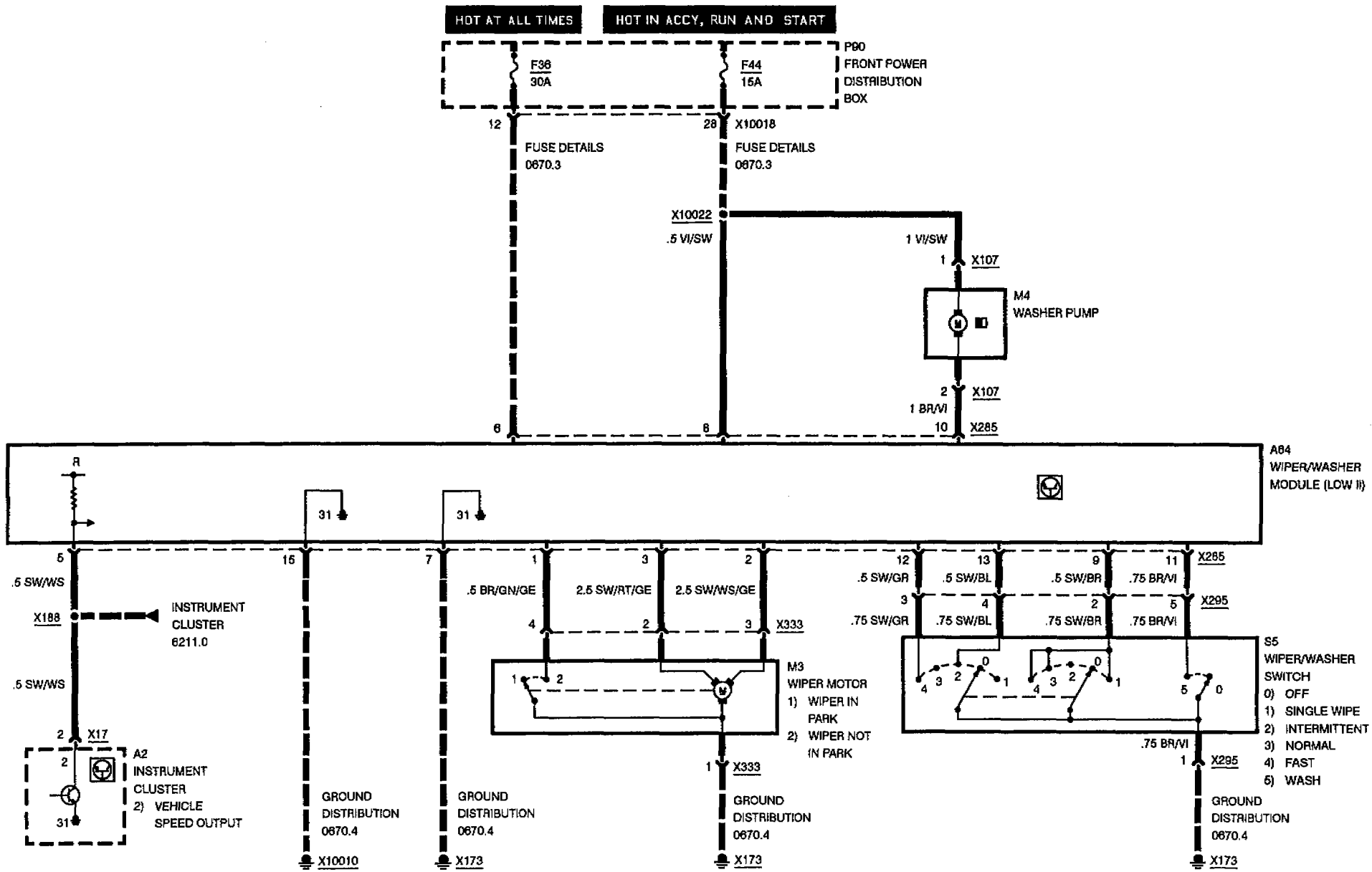


COMPONENT

A835 .	TRANSMITTER MODULE (EWS II)	RH side of steering column
A836 .	CONTROL MODULE (EWS II)	Under glove box
X1659	CONNECTOR (15–PINS, YELLOW)	Under glove box
X1660	CONNECTOR (3–PINS, WHITE)	RH side of steering column
X90260	CONNECTOR (3–PINS, BLACK)	RH side of steering column

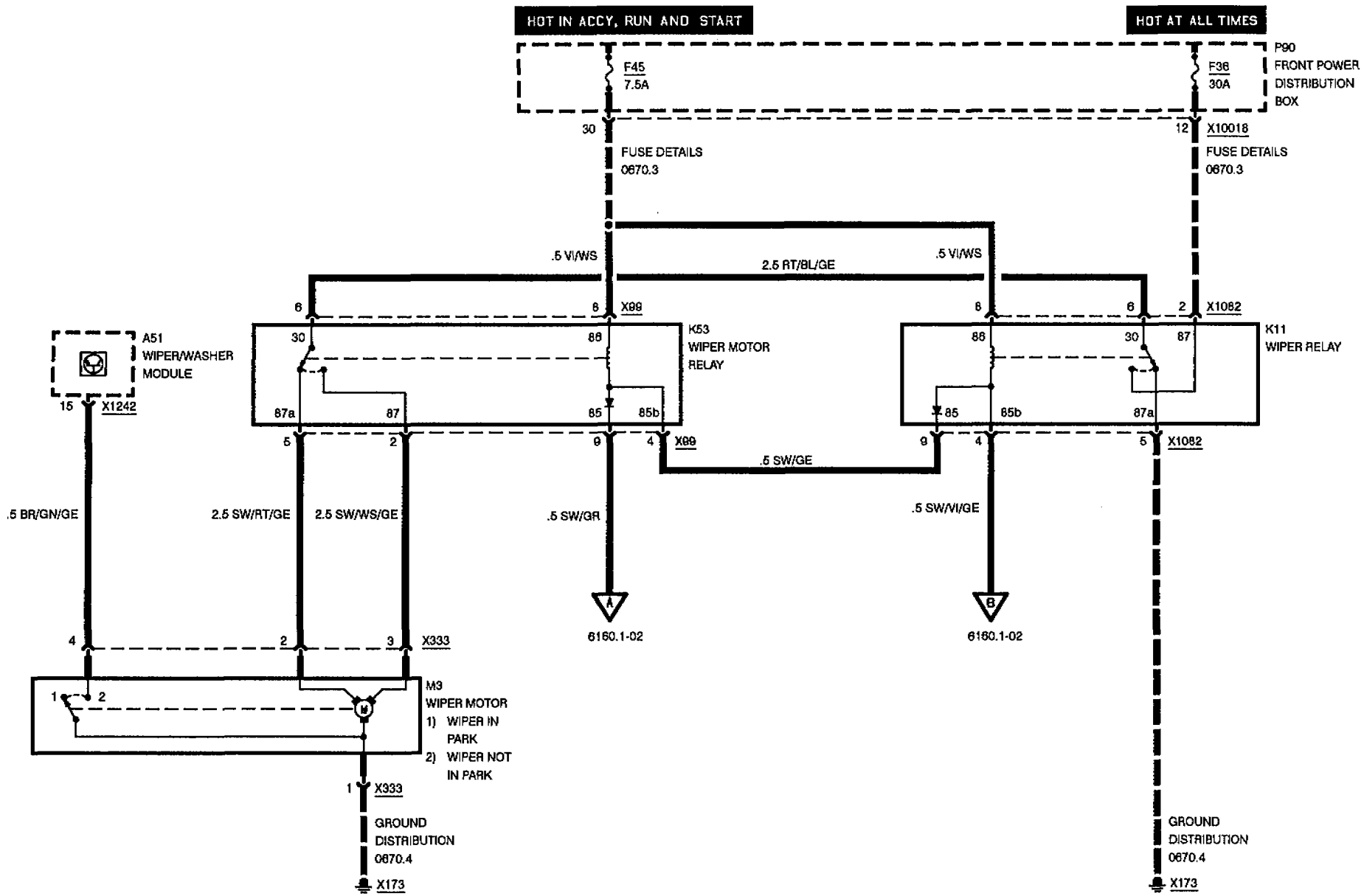
WIPER/WASHER MODULE (WWM)

USA

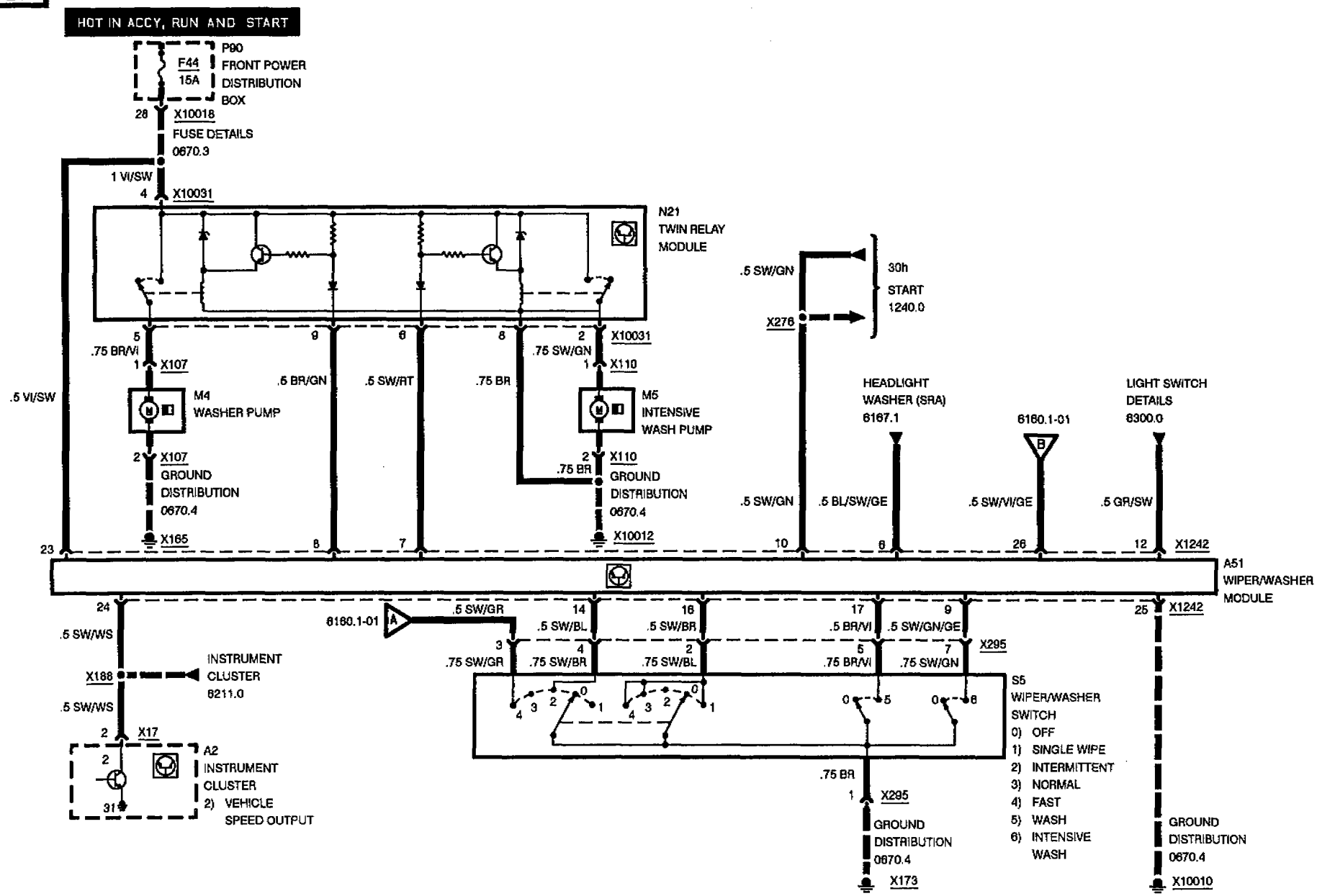


WIPER/WASHER MODULE (WWM)

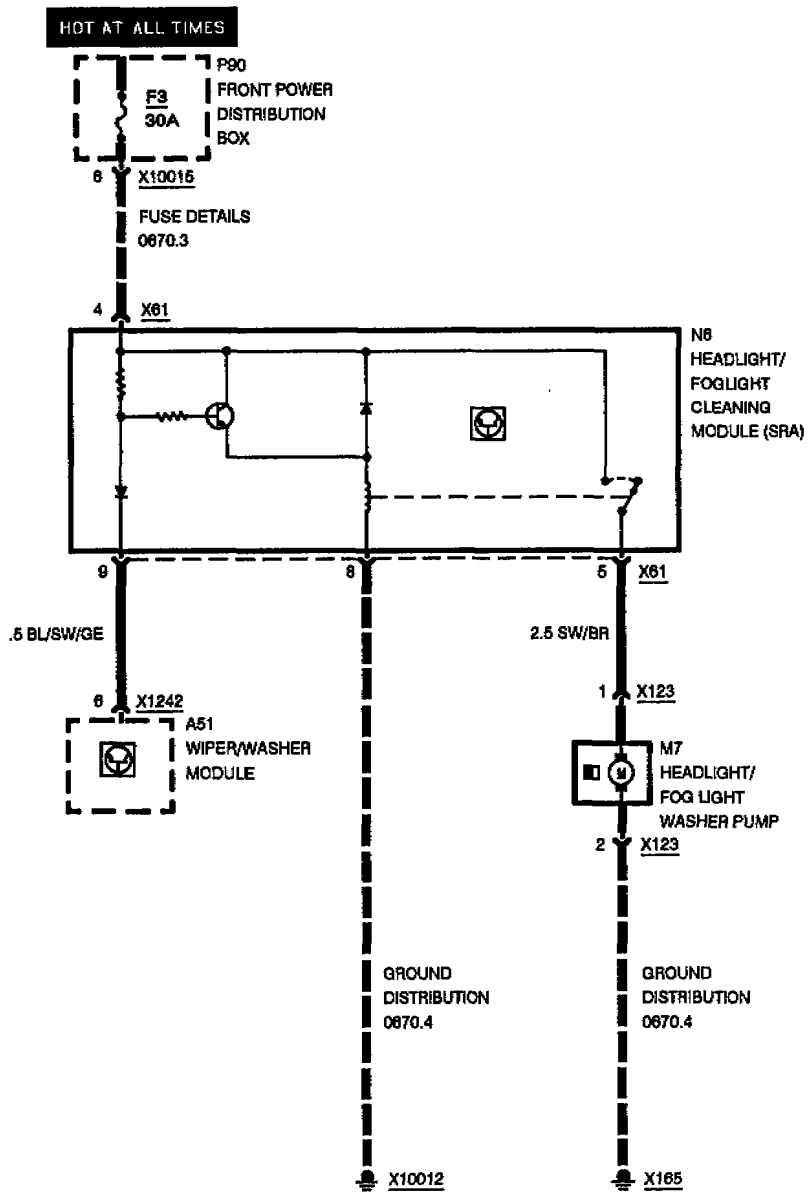
CDN



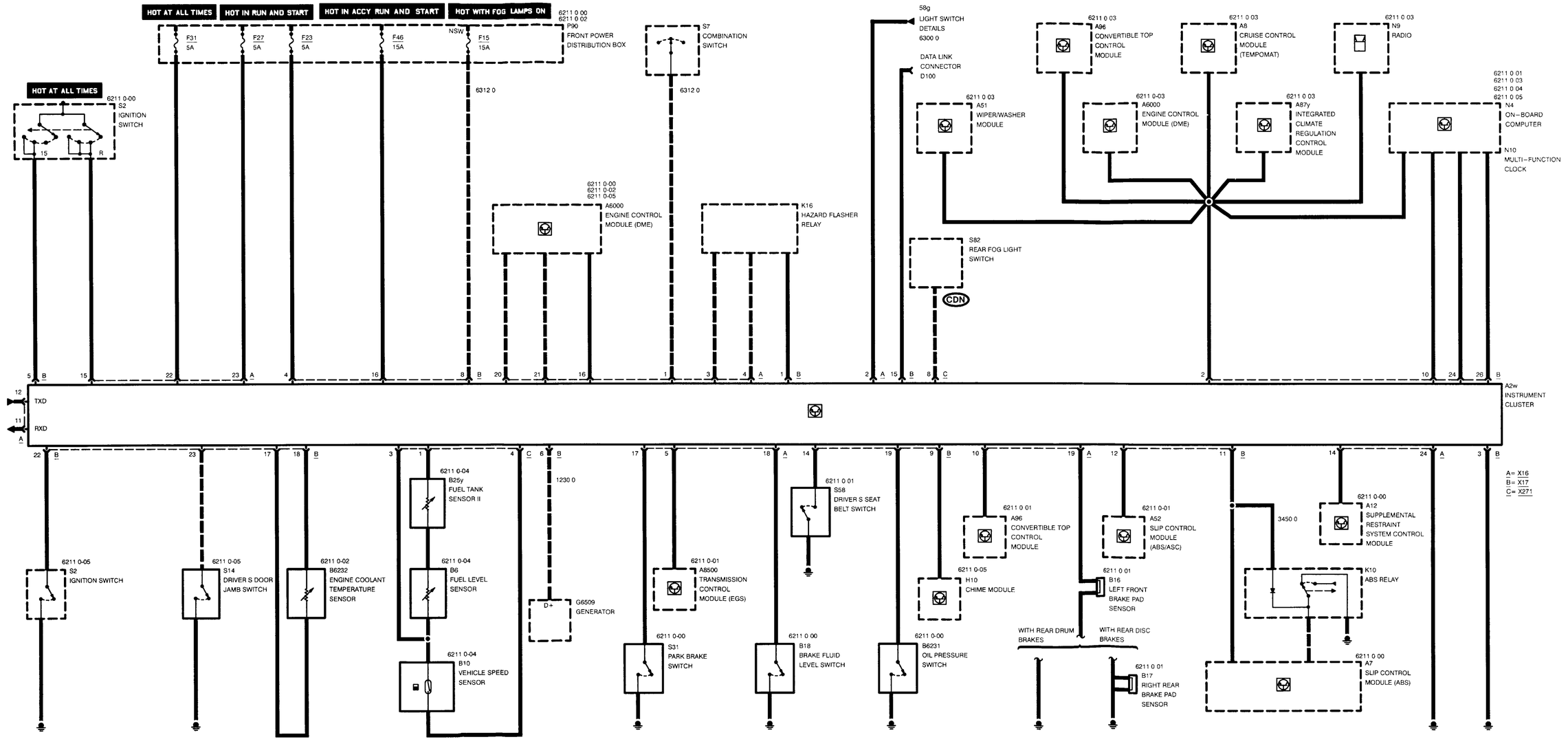
WIPER/WASHER MODULE (WWM)

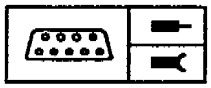


HEADLIGHT WASHER (SRA)



09/94 6211 0 1995
09/94 6211.0 1995



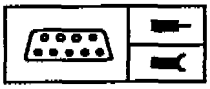


Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10	E	Convertible Roll over signal	Convertible top control module
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13	E	M3 oil temperature	Engine oil temperature sensor
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15	E	Voltage supply, terminal R for airbag warning lamp (SRS)	Ignition switch, terminal R
16	E	"Check engine" indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21	E	Fuel consumption signal + KVA	Engine control module (DME)
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

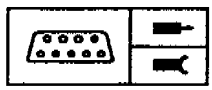


Pin Assignments

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box fuse 15
9	A	Sound tone signal	Chime module
10	A	Information signal, fuel tank content	On-board computer
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS)
12	E	ASC signal	ASC control module
13		Not used	
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distibution box, fuse 46
17	A	Coolant temperature sensor	Coolant temperature sensor
18	E	Coolant temperature sensor	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21		Not used	
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver's door open	Driver's door jamb switch
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

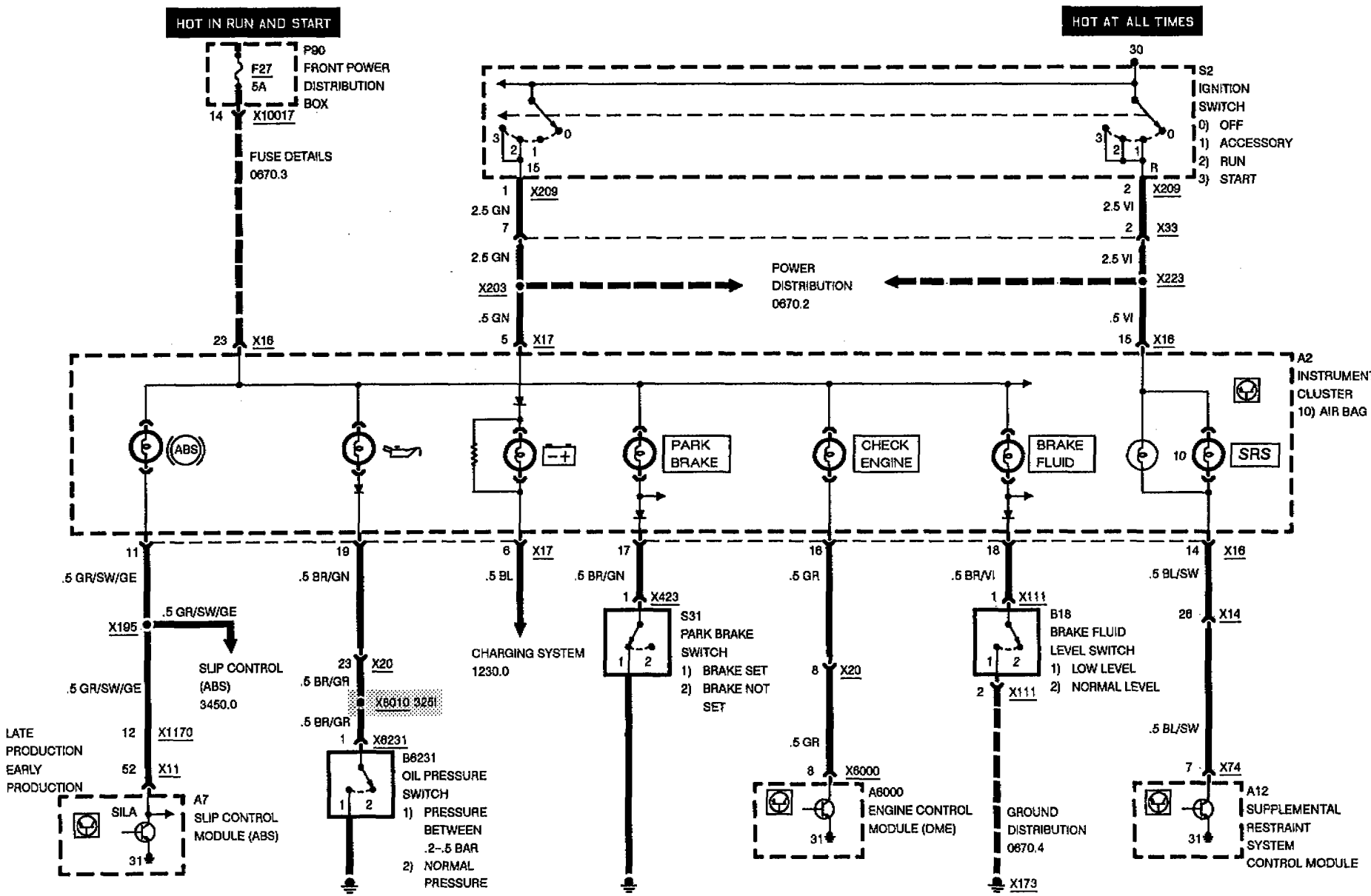
X271

Pin	Type	Descrption/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal tw	Vehicle speed sensor
5		Not used	
6		Not used	
7		Not used	
8	E	Rear fog lights indicator control	Rear fog light switch
9		Not used	
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

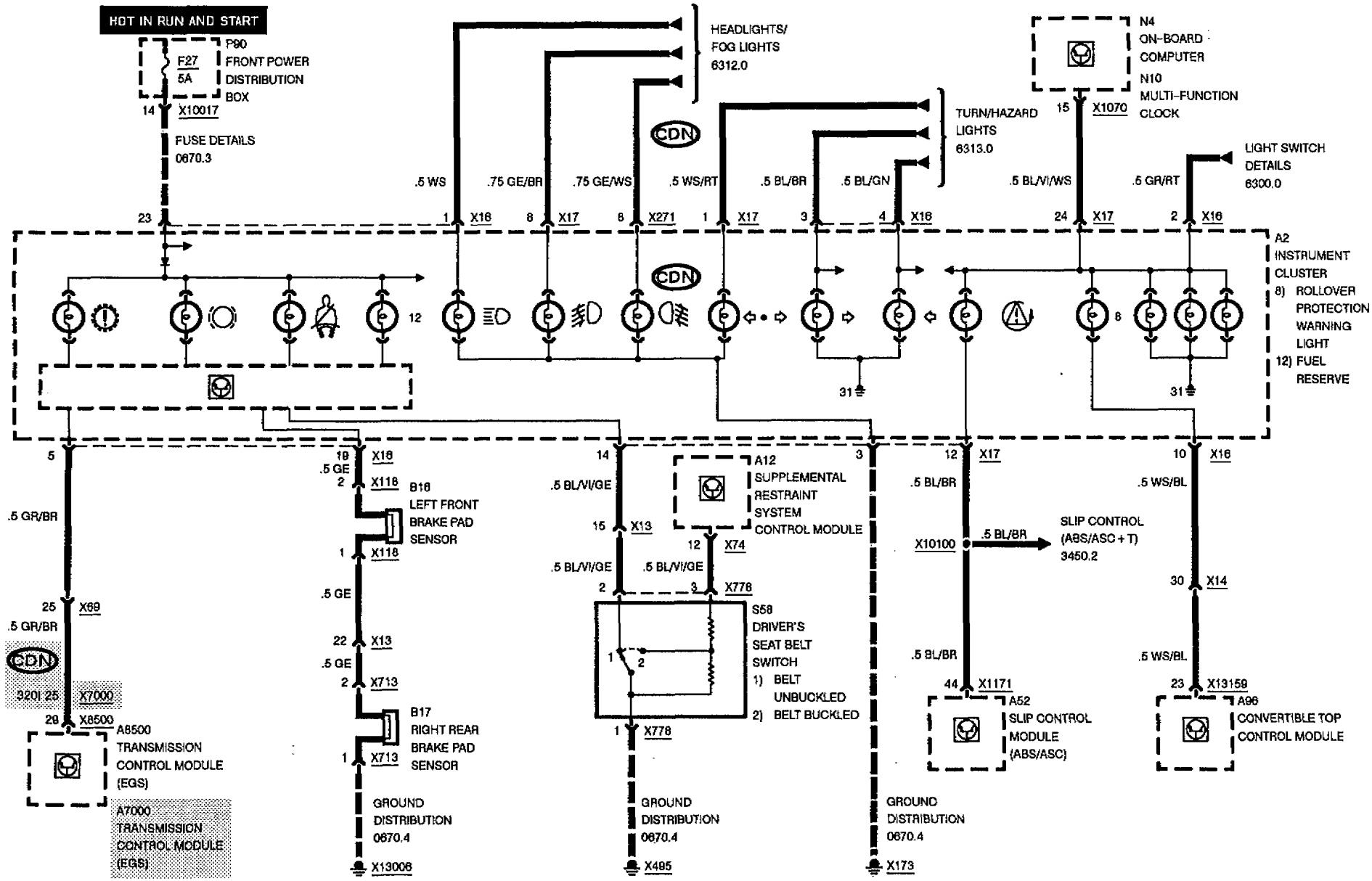
INSTRUMENT CLUSTER

INDICATORS



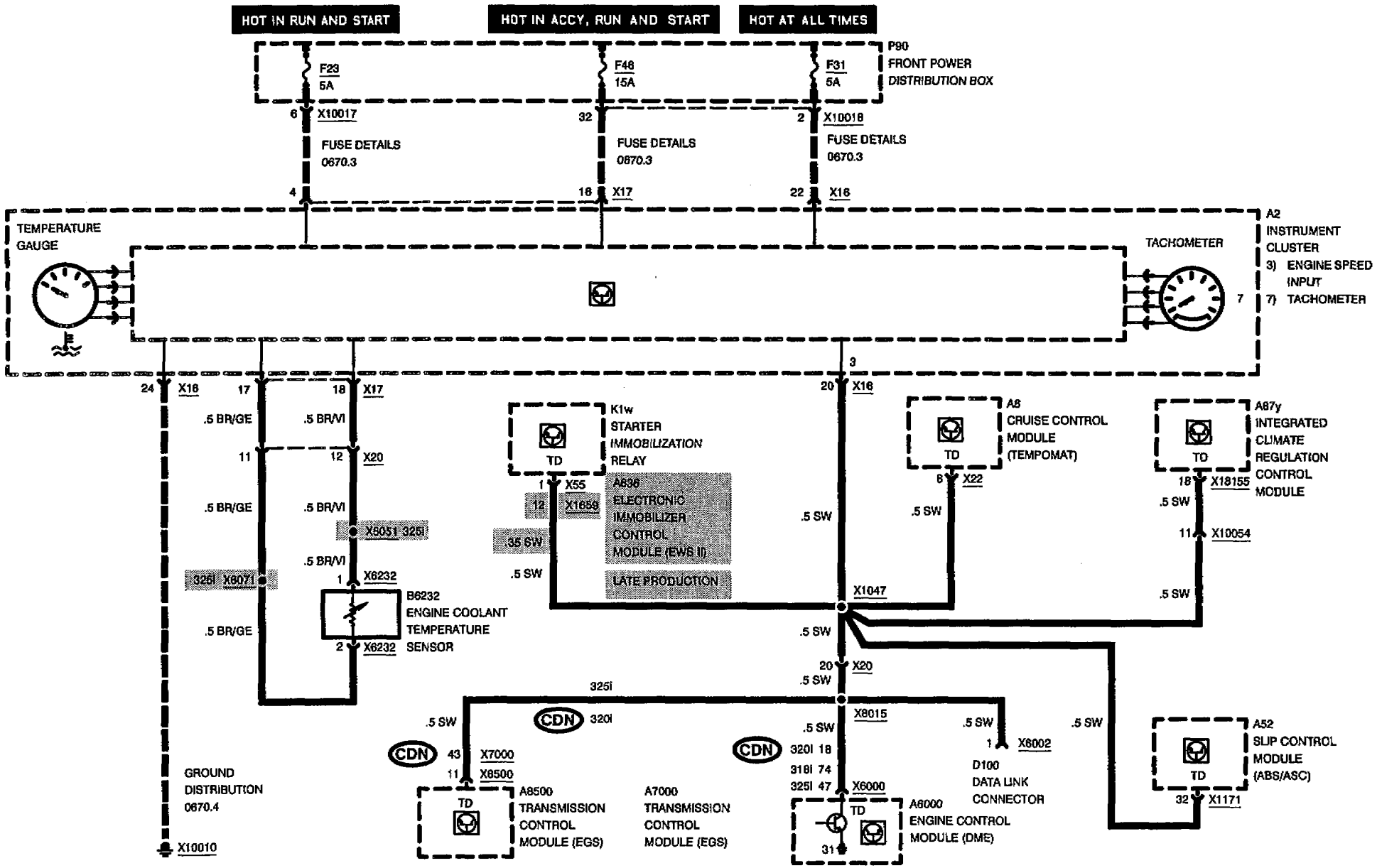
INSTRUMENT CLUSTER

INDICATORS



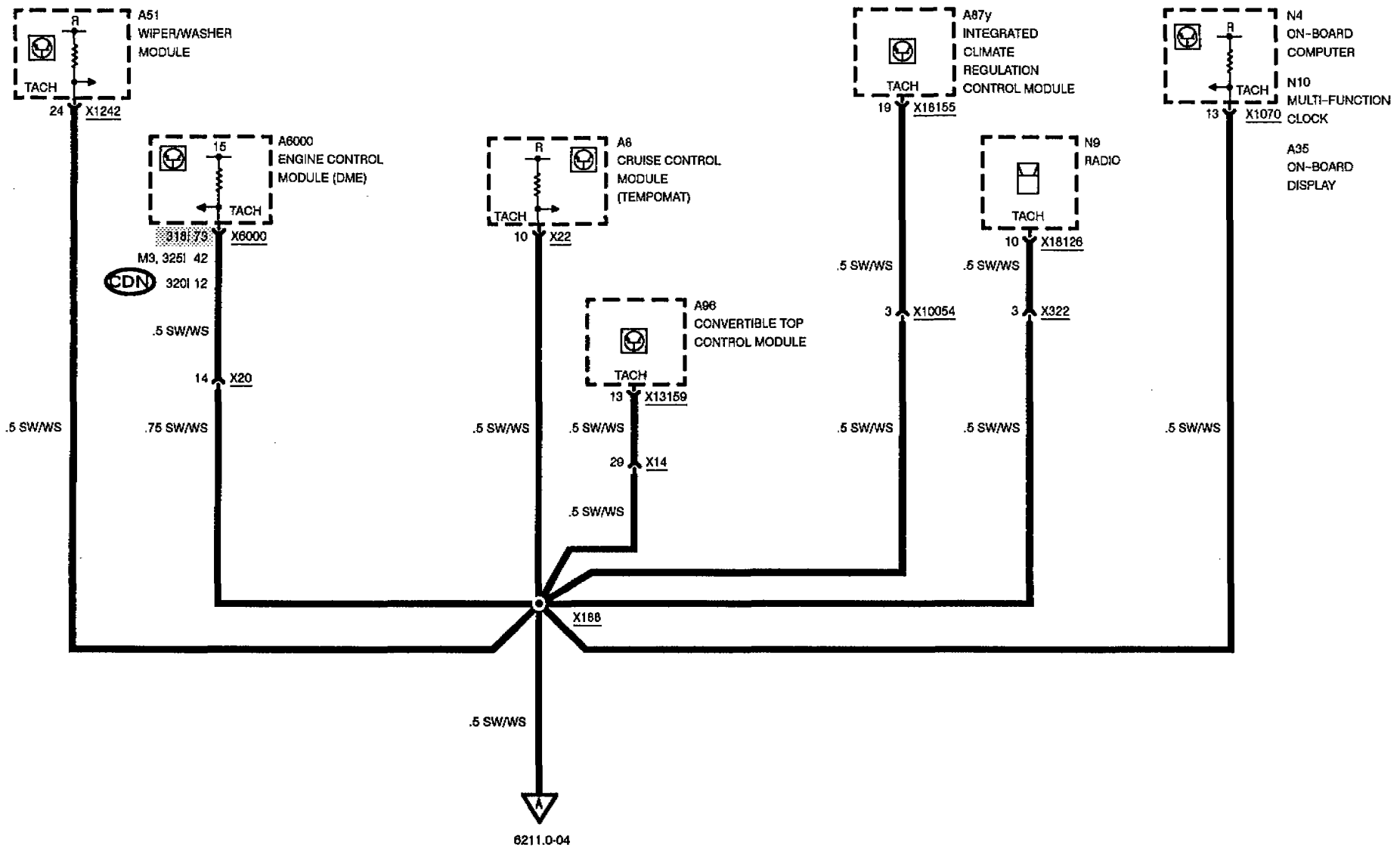
INSTRUMENT CLUSTER

INDICATORS



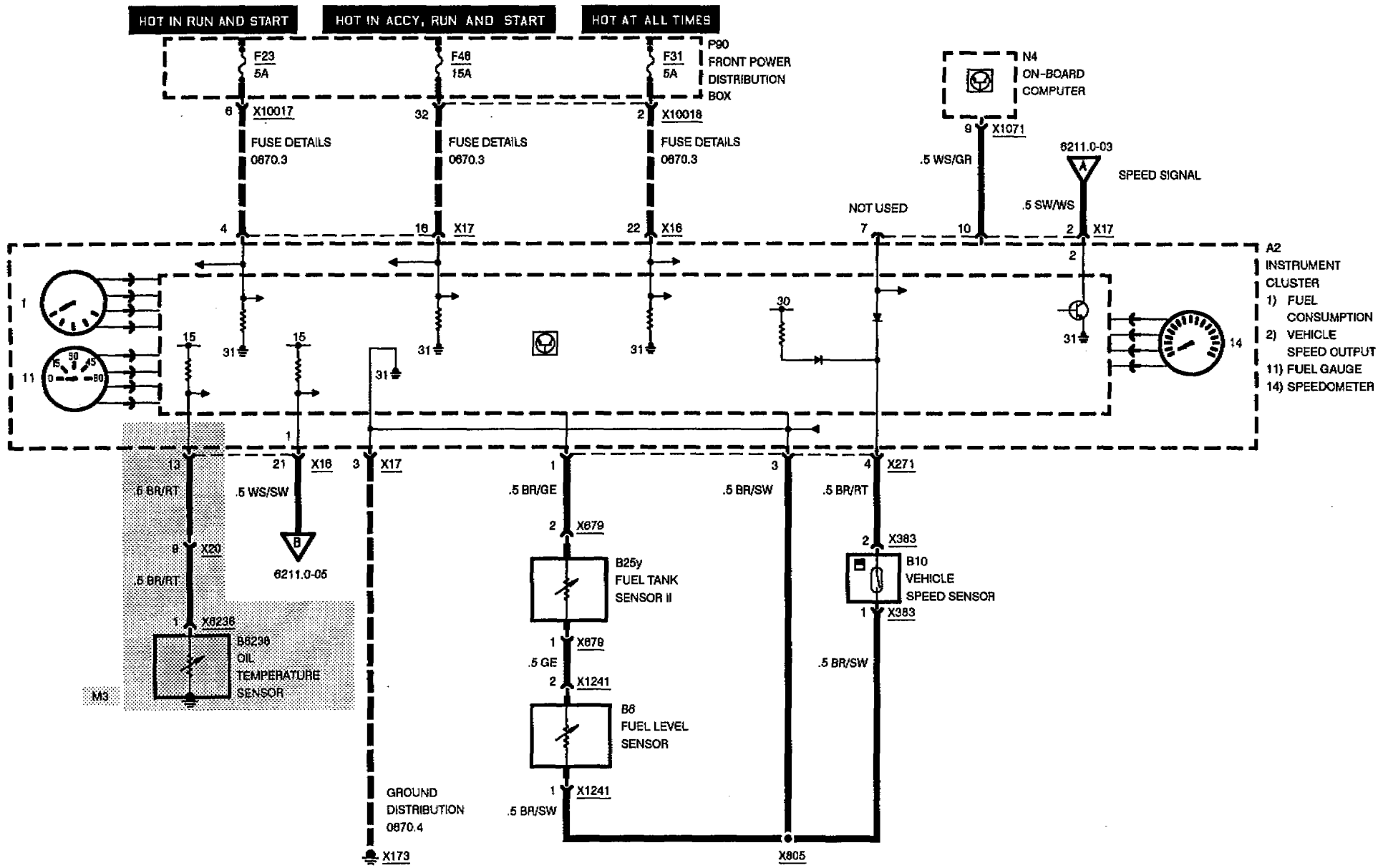
INSTRUMENT CLUSTER

SIGNAL-OUTPUT SPEEDOMETER



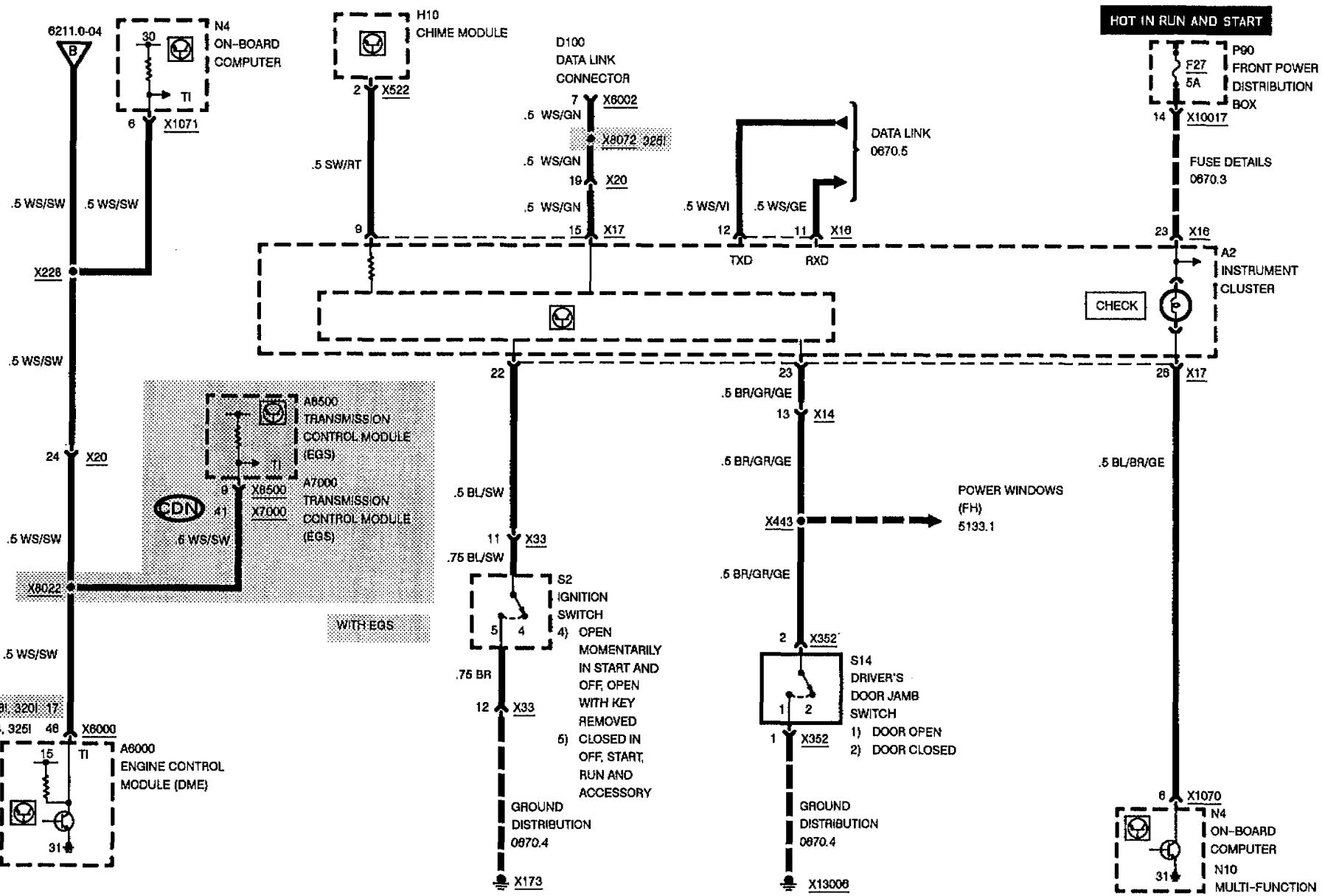
INSTRUMENT CLUSTER

INDICATORS

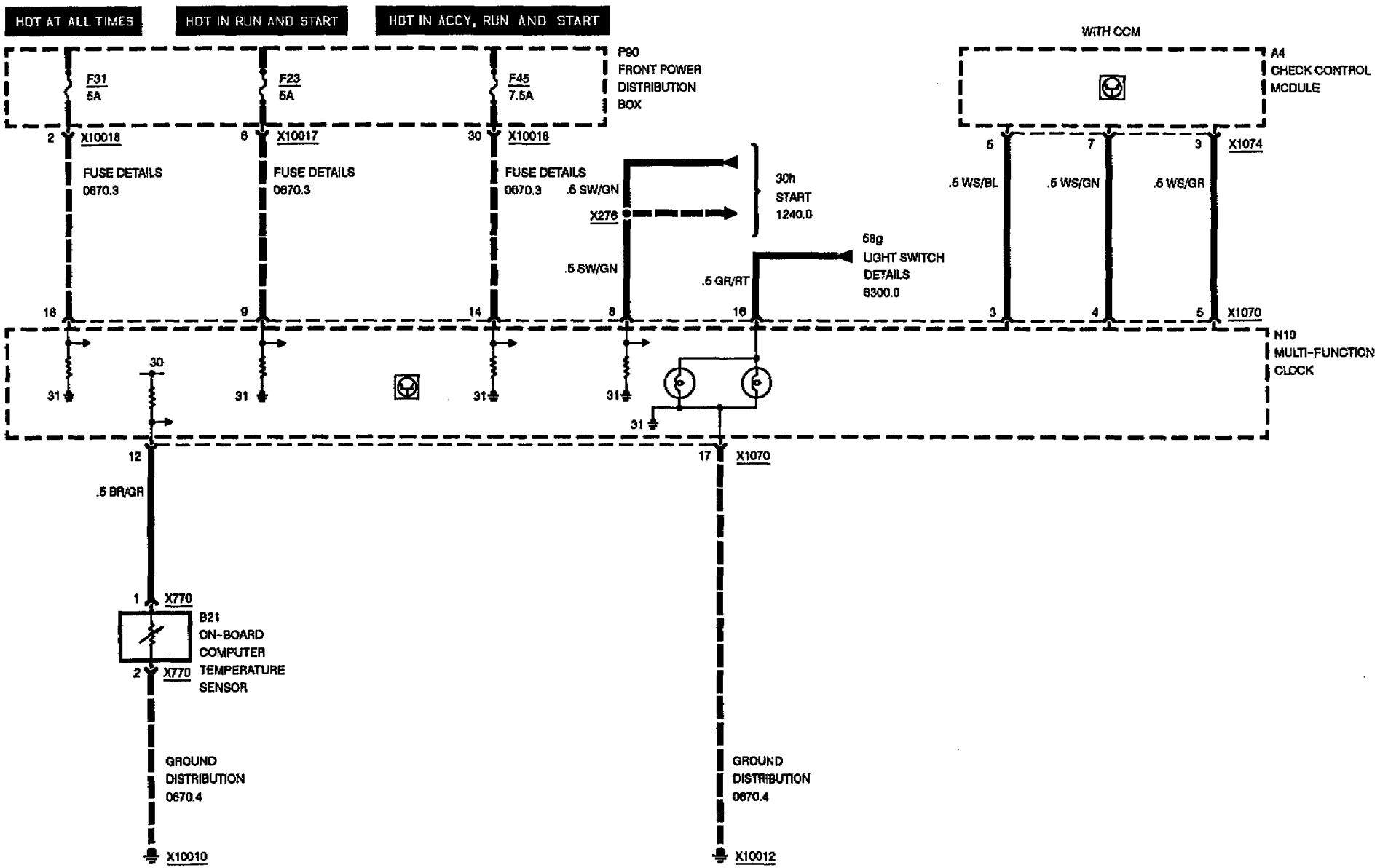


INSTRUMENT CLUSTER

INDICATORS

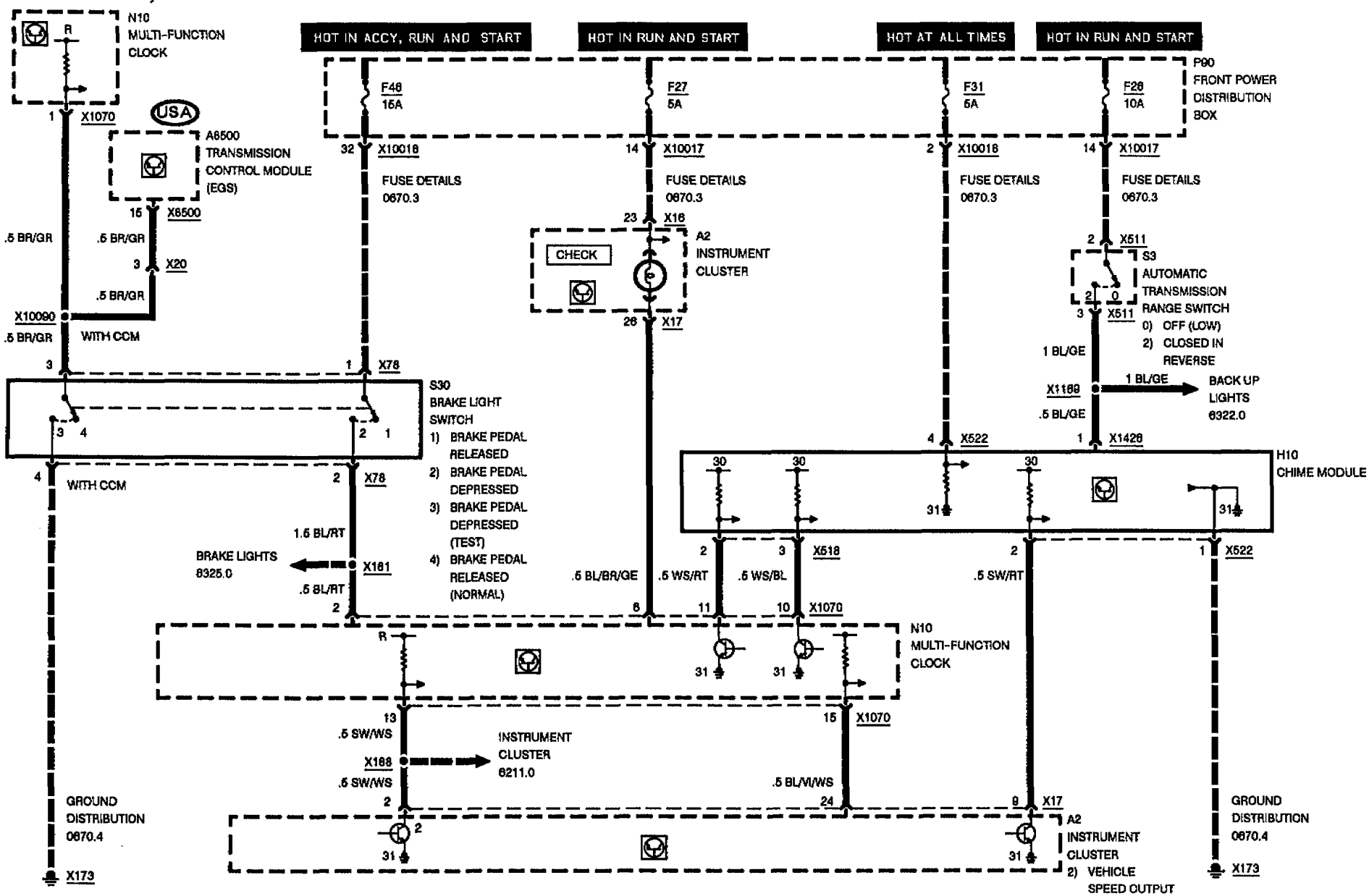


MULTI-FUNCTION CLOCK



MULTI-FUNCTION CLOCK

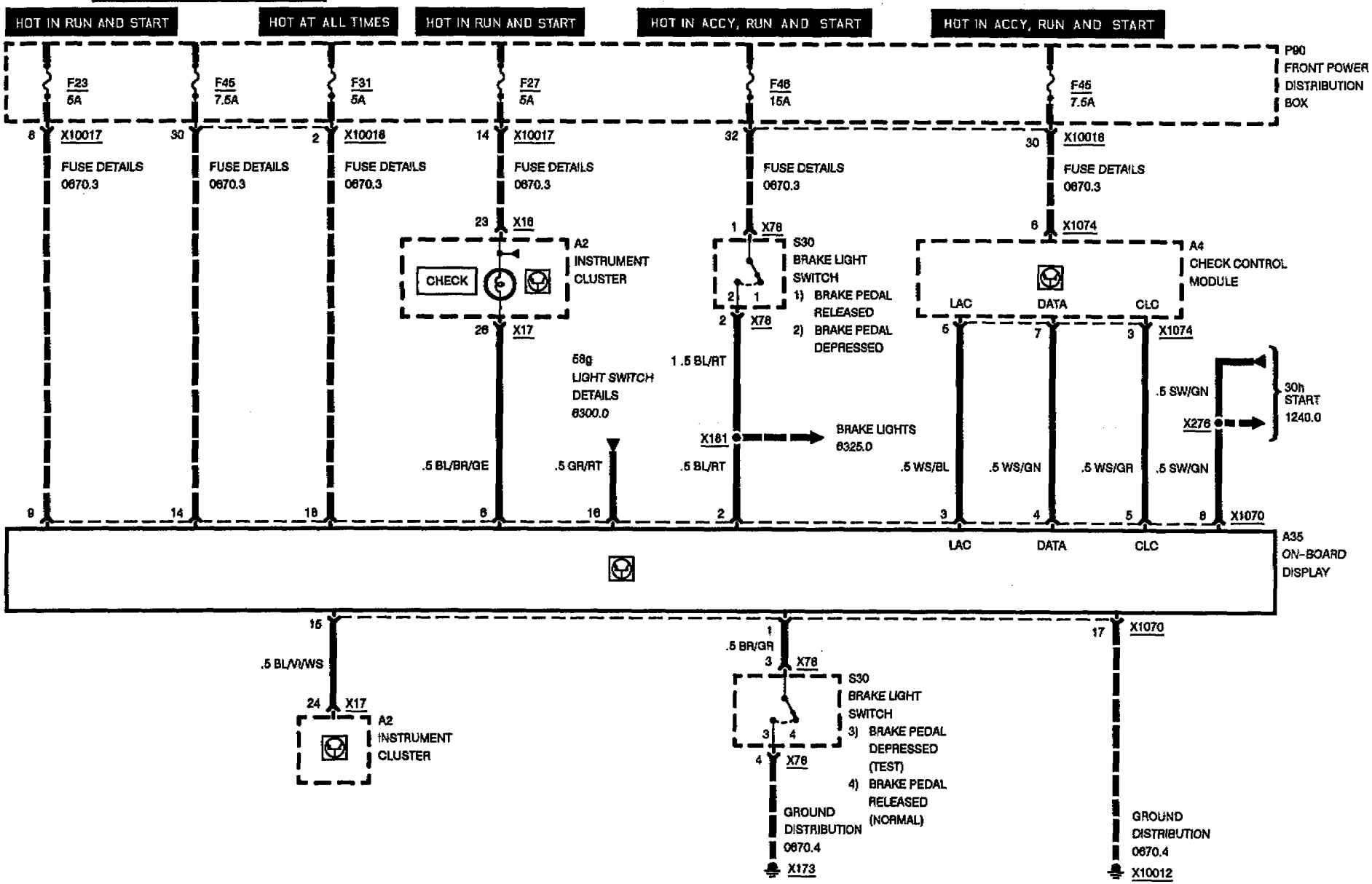
CHIME, BRAKE LIGHT SWITCH



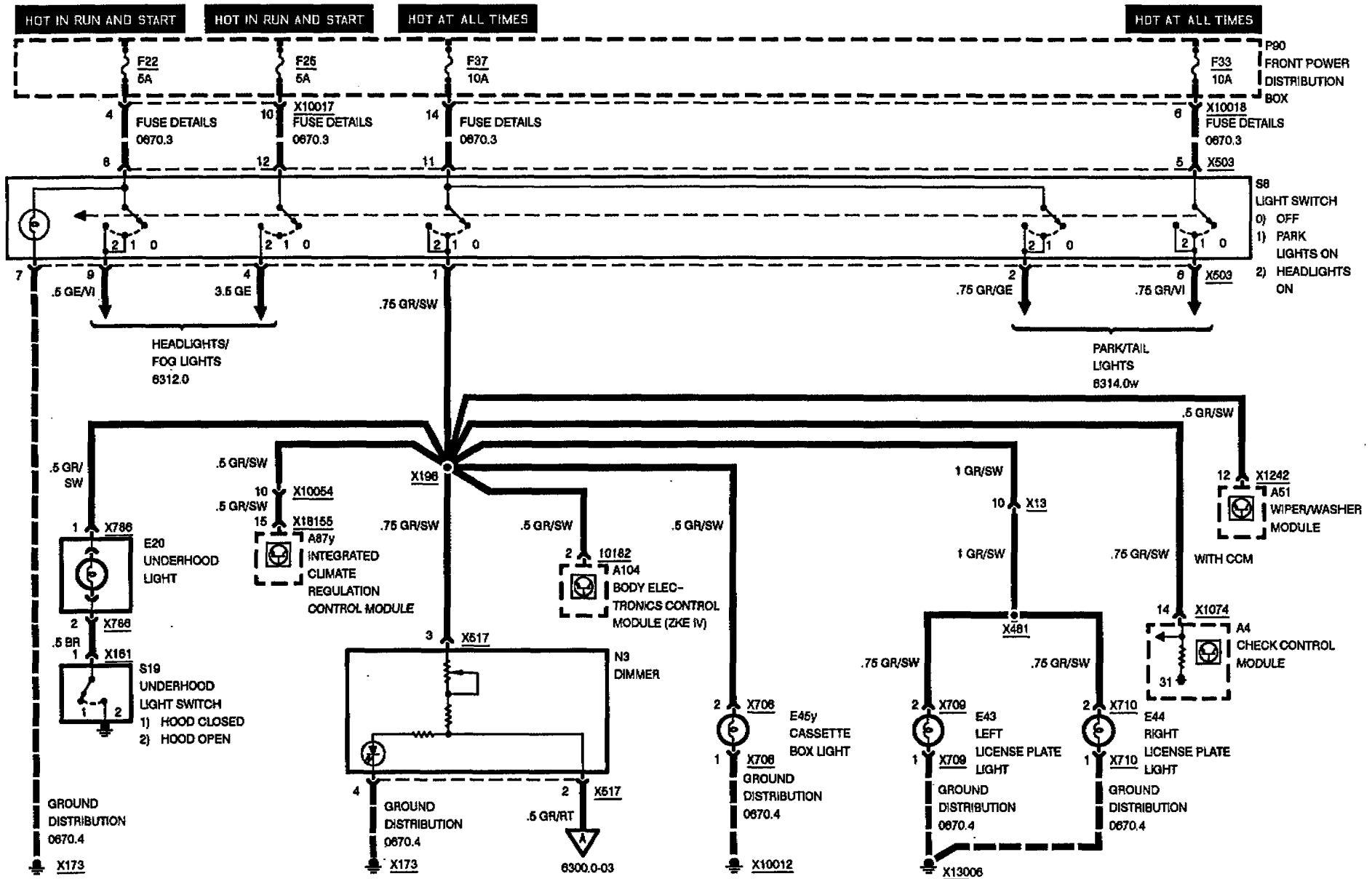
BMW 3

ON-BOARD DISPLAY

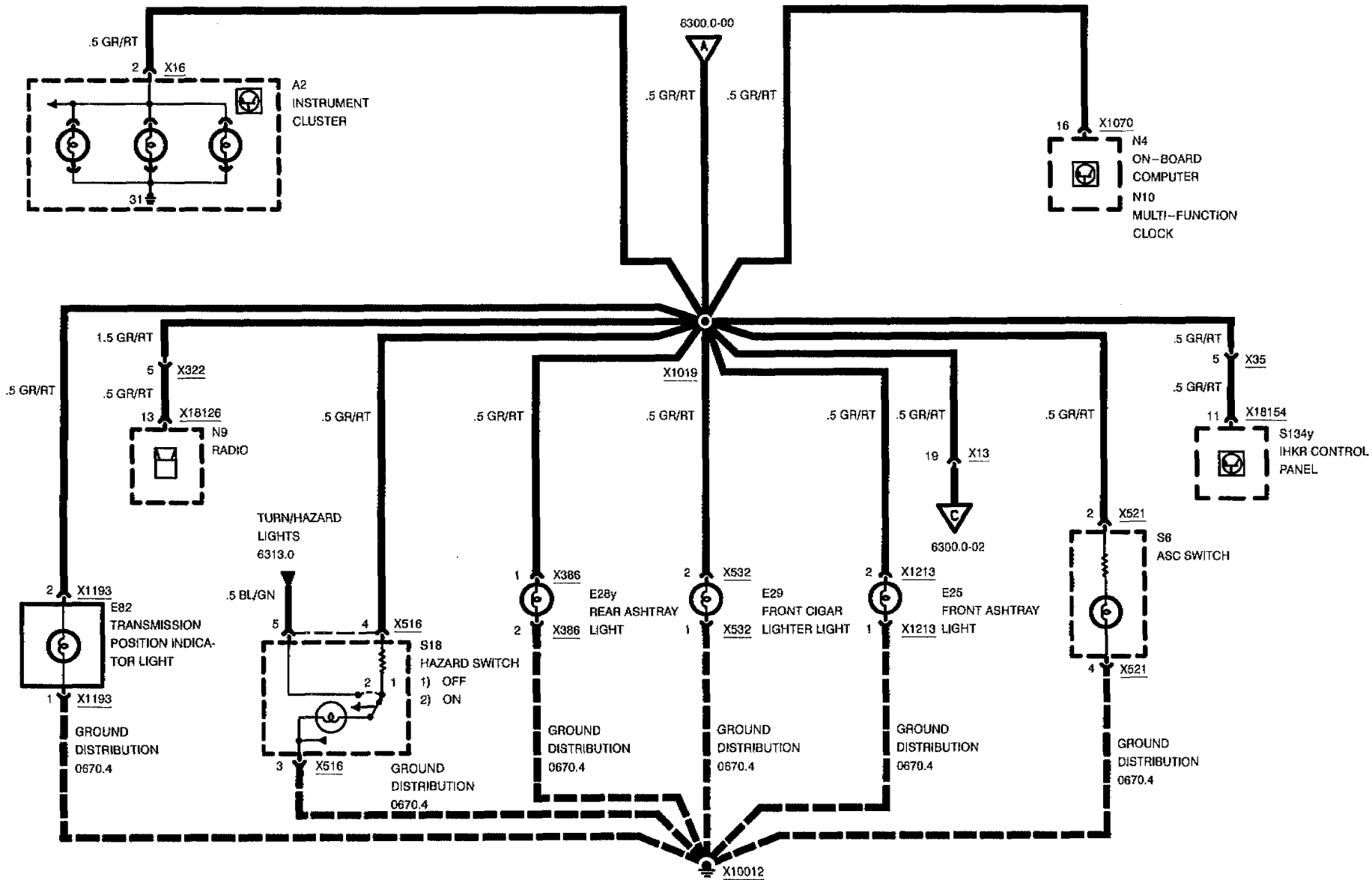
HOT IN ACCY, RUN AND START



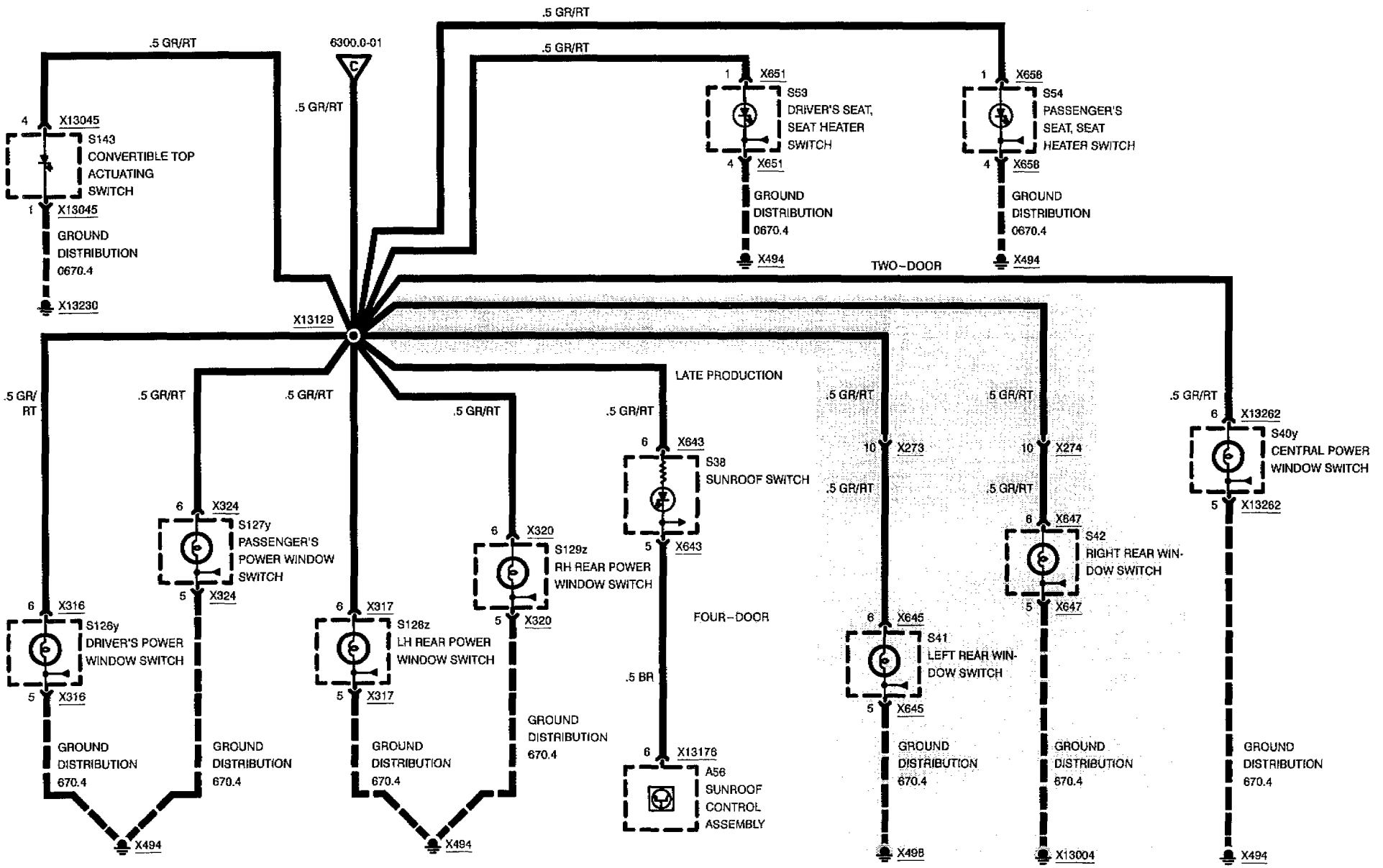
LIGHT SWITCH DETAILS



LIGHT SWITCH DETAILS

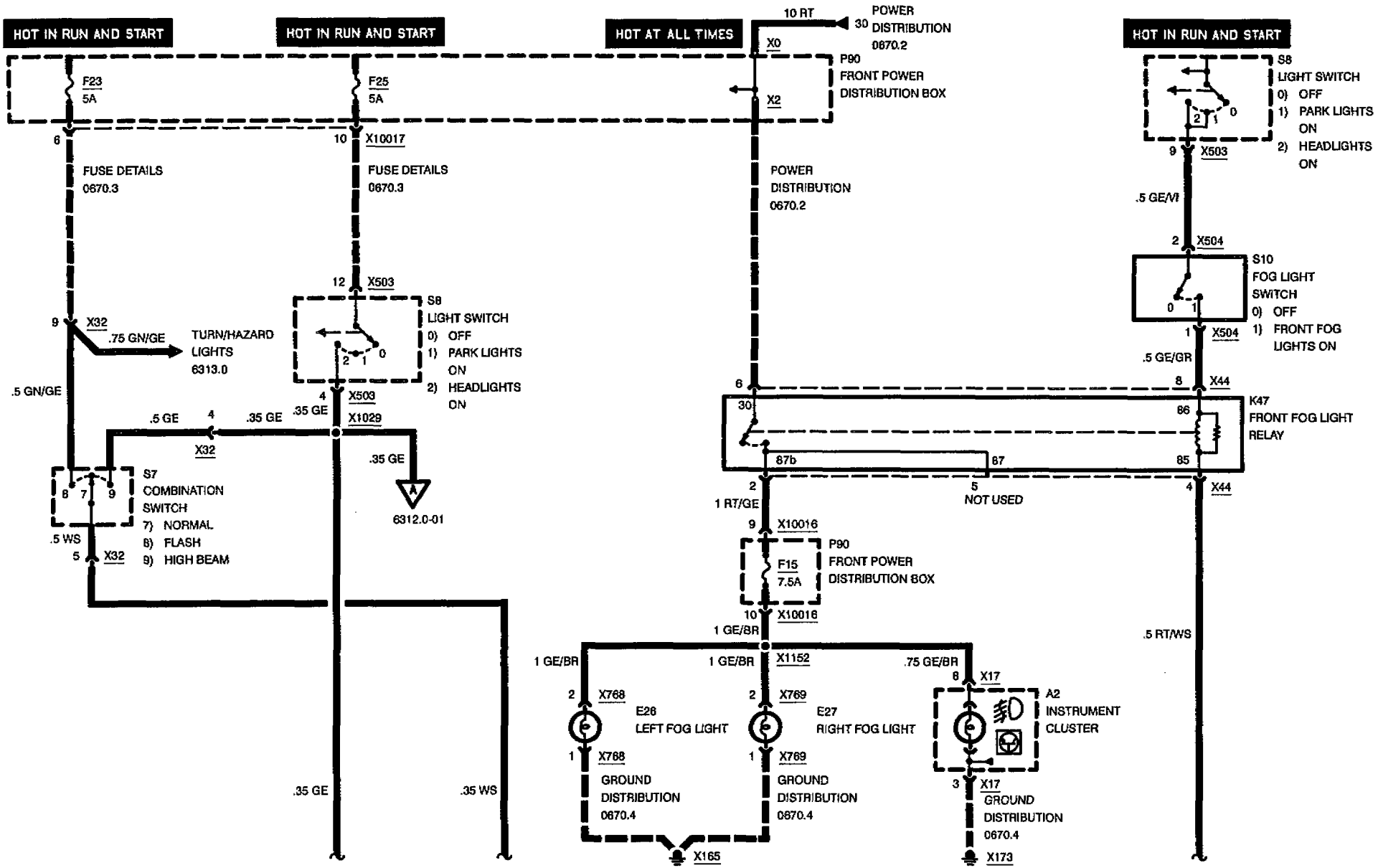


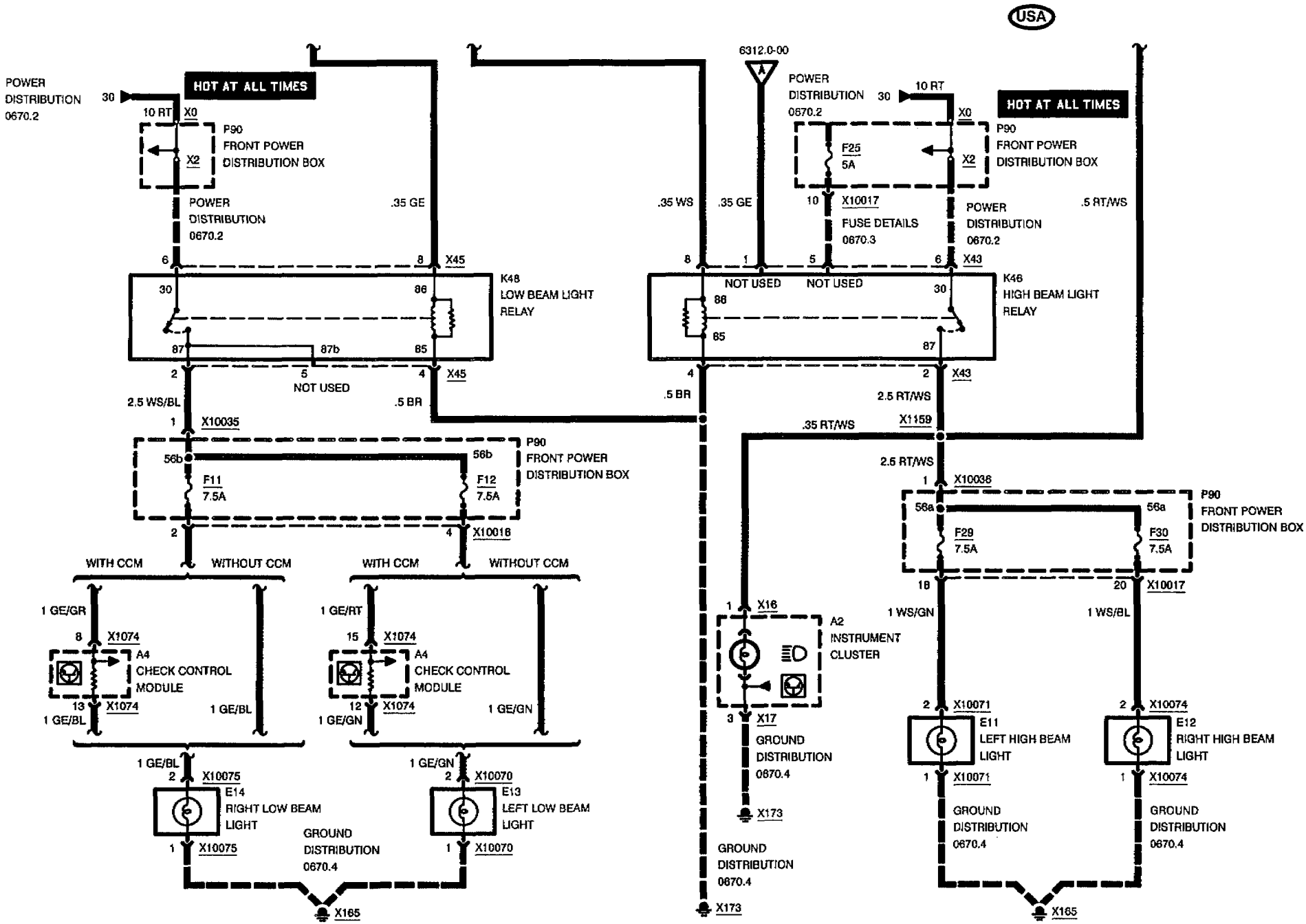
LIGHT SWITCH DETAILS



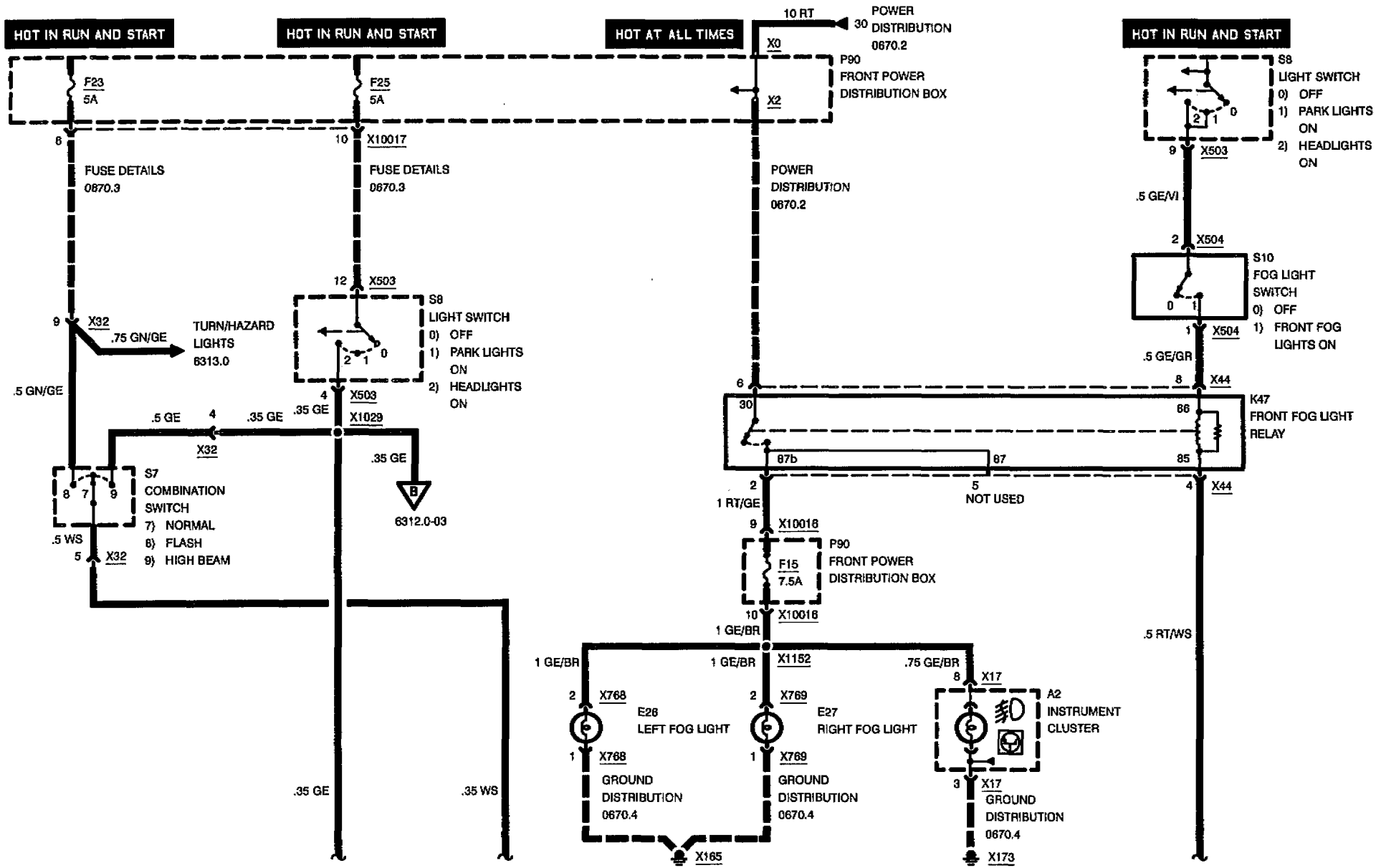
HEADLIGHTS/FOG LIGHTS

USA

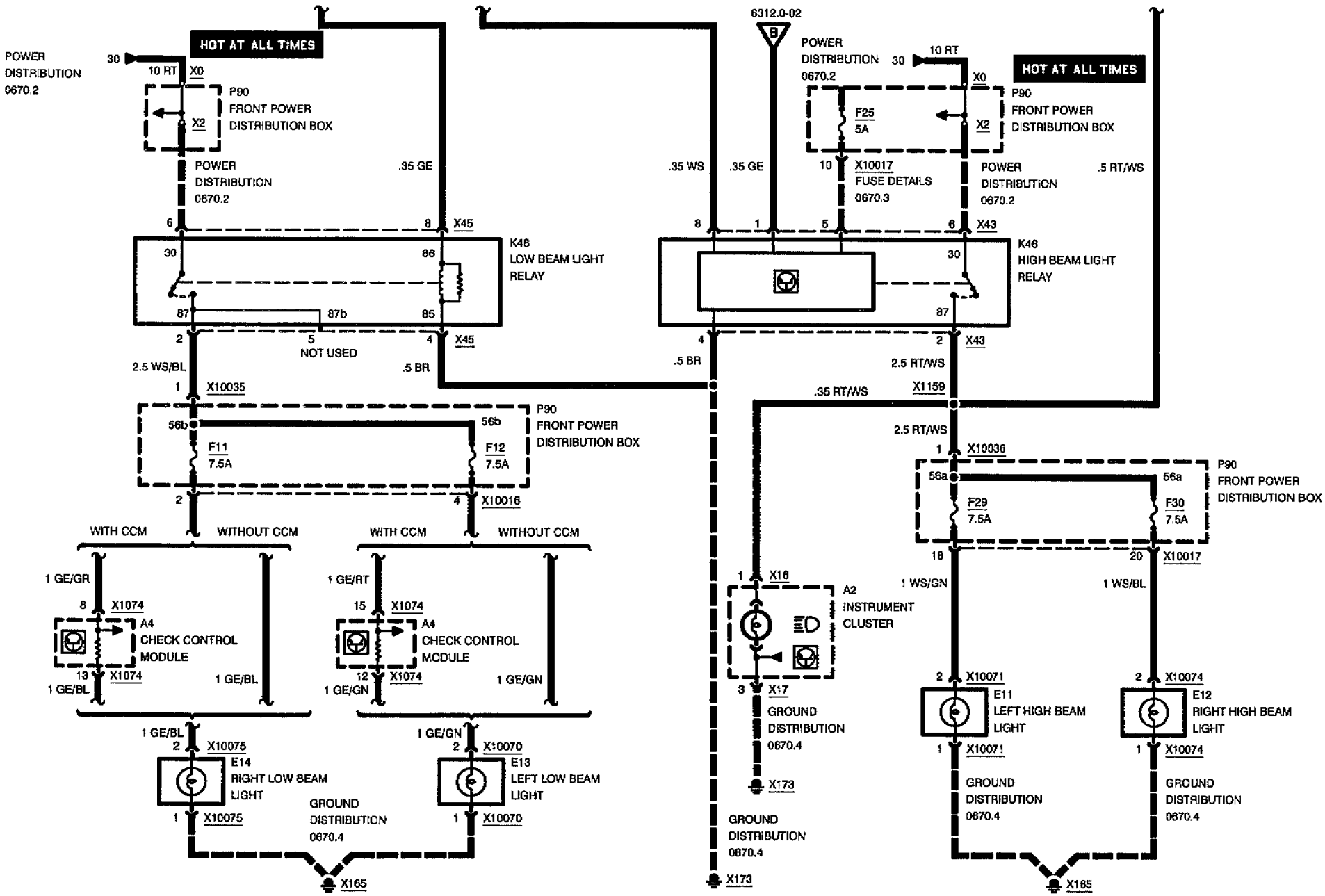


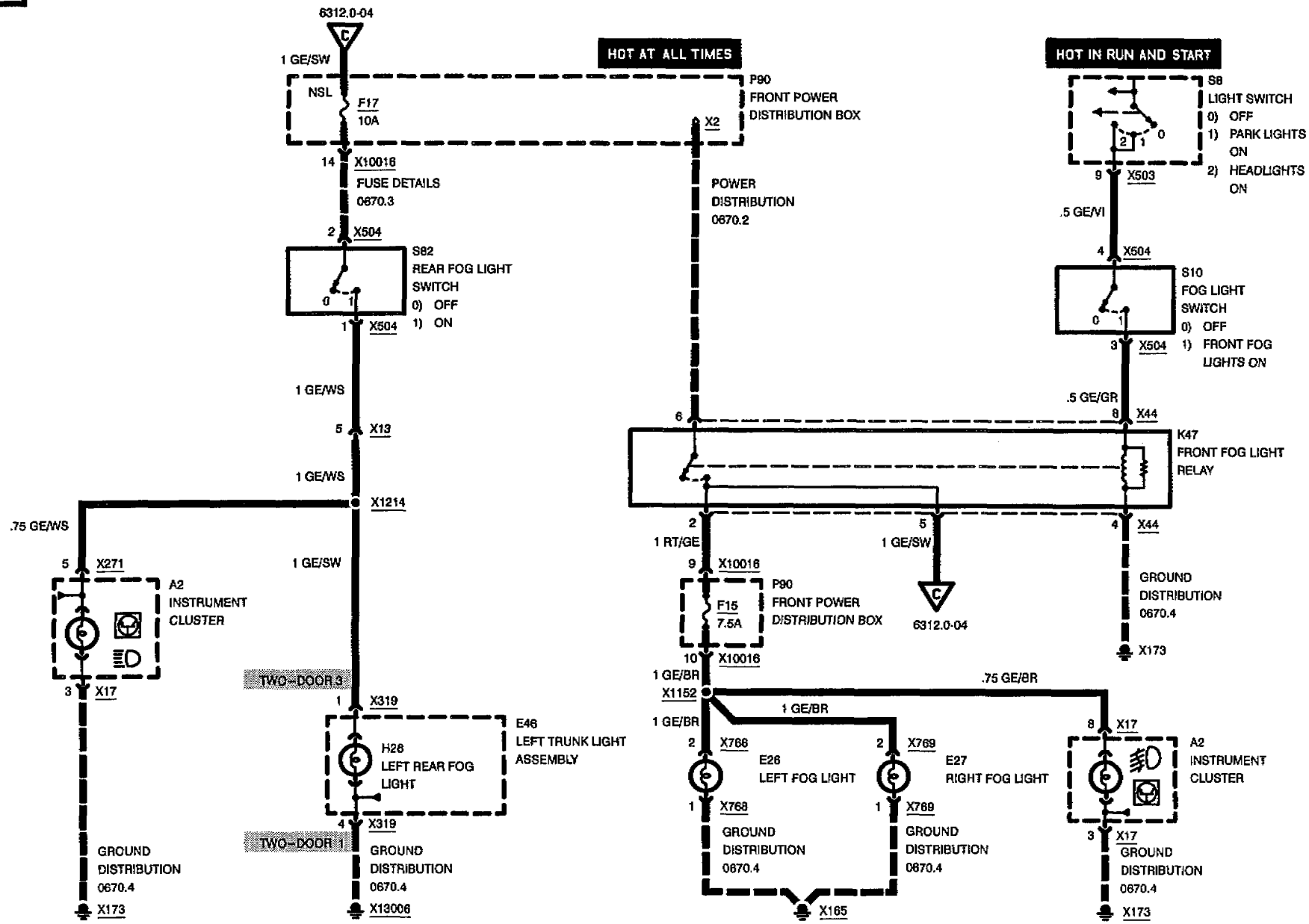

USA
6312.0-00
POWER DISTRIBUTION 0670.2
30
HOT AT ALL TIMES
10 RT
X0
P90 FRONT POWER DISTRIBUTION BOX
X2
POWER DISTRIBUTION 0670.2
.35 GE
6
8
X45
K48 LOW BEAM LIGHT RELAY
30
86
87
87b
85
2
5
NOT USED
4
X45
2.5 WS/BL
.5 BR
1
X10035
56b
F11 7.5A
F12 7.5A
2
4
X10016
WITH CCM
WITHOUT CCM
1 GE/GR
8
X1074
A4 CHECK CONTROL MODULE
13
X1074
1 GE/BL
1 GE/BL
1 GE/RT
15
X1074
12
X1074
1 GE/GN
1 GE/GN
1 GE/BL
2
X10075
E14 RIGHT LOW BEAM LIGHT
1
X10075
1 GE/GN
2
X10070
E13 LEFT LOW BEAM LIGHT
1
X10070
GROUND DISTRIBUTION 0670.4
X165
.35 WS
.35 GE
8
1
5
NOT USED
NOT USED
F25 5A
10
X10017
FUSE DETAILS 0670.3
POWER DISTRIBUTION 0670.2
.5 RT/WS
6
X43
K46 HIGH BEAM LIGHT RELAY
86
85
30
87
4
.5 BR
2
X43
2.5 RT/WS
.35 RT/WS
X1159
2.5 RT/WS
1
X10036
56a
F29 7.5A
F30 7.5A
18
20
X10017
1 WS/GN
1 WS/BL
1
X16
A2 INSTRUMENT CLUSTER
3
X17
GROUND DISTRIBUTION 0670.4
X173
GROUND DISTRIBUTION 0670.4
X173
2
X10071
E11 LEFT HIGH BEAM LIGHT
1
X10071
2
X10074
E12 RIGHT HIGH BEAM LIGHT
1
X10074
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X165

HEADLIGHTS/FOG LIGHTS

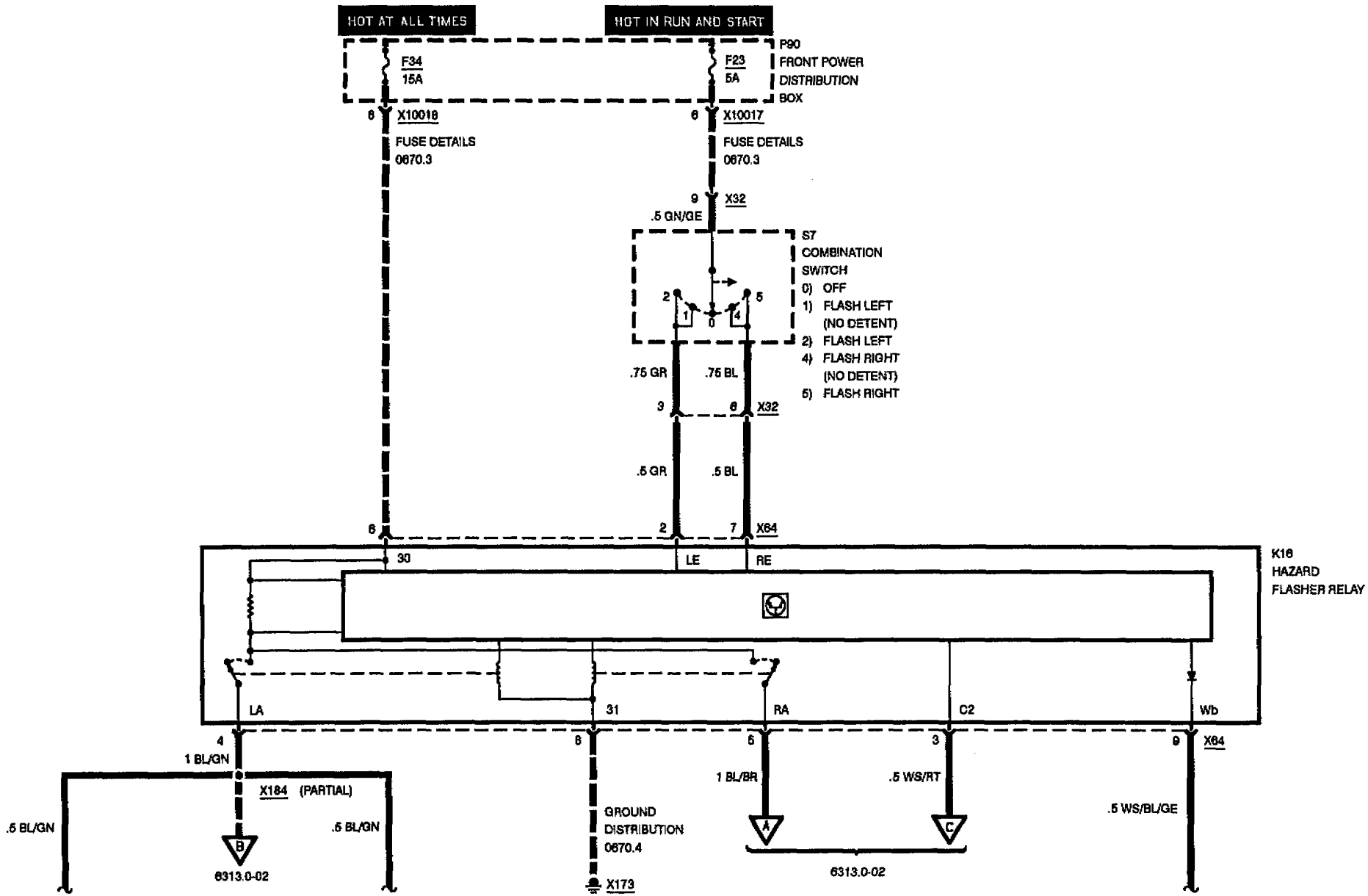


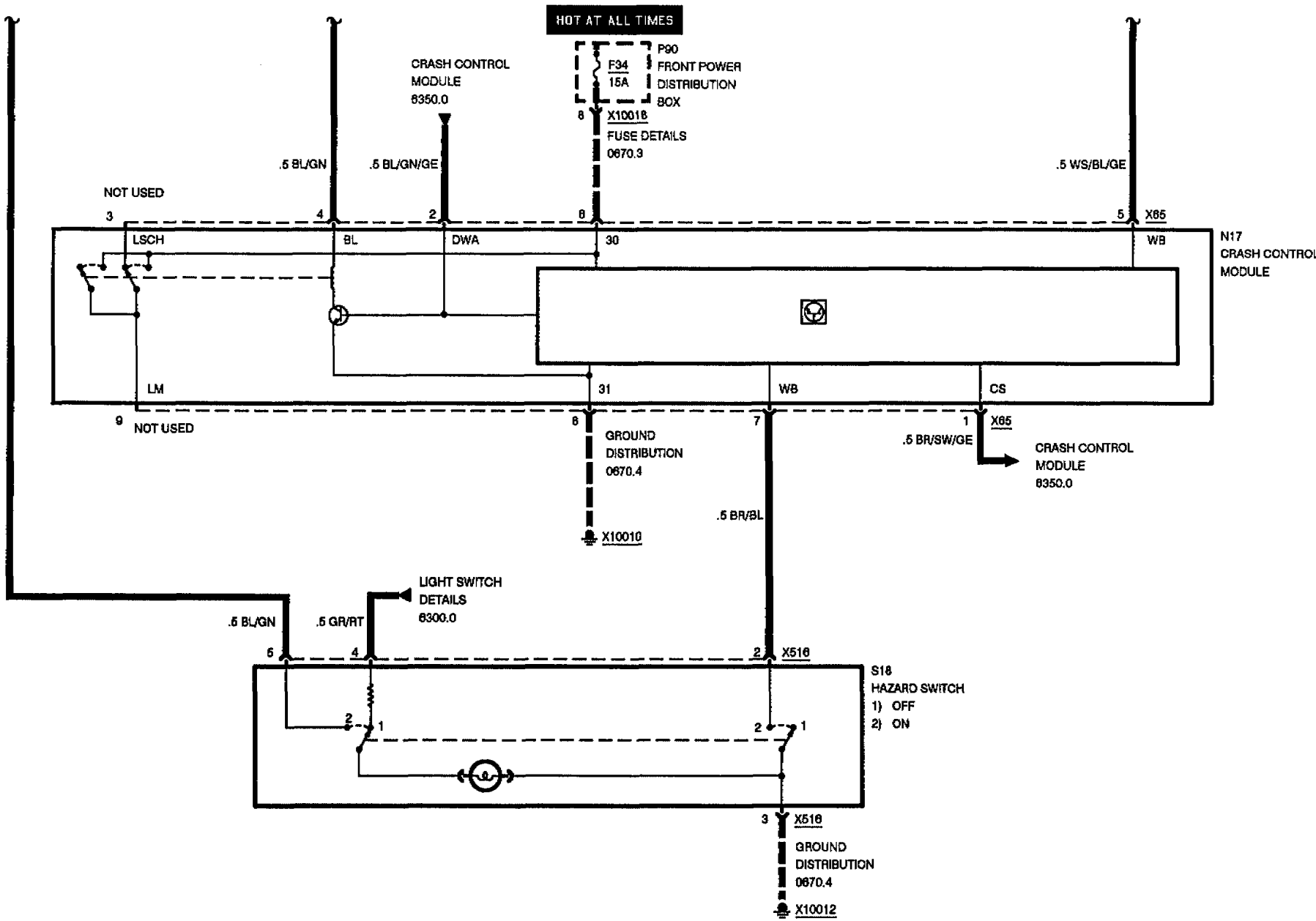
CDN


HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
30
10 RT
X0
P90 FRONT POWER DISTRIBUTION BOX
X2
POWER DISTRIBUTION 0670.2
.35 GE
6
8
X45
K48 LOW BEAM LIGHT RELAY
30
86
87
87b
85
2
5
4
X45
NOT USED
2.5 WS/BL
.5 BR
1
X10035
56b
F11 7.5A
F12 7.5A
2
4
X10016
WITH CCM
WITHOUT CCM
1 GE/GR
8
X1074
A4 CHECK CONTROL MODULE
13
1 GE/BL
1 GE/BL
1 GE/RT
15
12
1 GE/GN
1 GE/GN
1 GE/BL
2
X10075
E14 RIGHT LOW BEAM LIGHT
1
X10075
1 GE/GN
2
X10070
E13 LEFT LOW BEAM LIGHT
1
X10070
GROUND DISTRIBUTION 0670.4
X165
6312.0-02
B
POWER DISTRIBUTION 0670.2
30
10 RT
X0
HOT AT ALL TIMES
P90 FRONT POWER DISTRIBUTION BOX
F25 5A
X2
.35 WS
.35 GE
10
X10017 FUSE DETAILS 0670.3
POWER DISTRIBUTION 0670.2
.5 RT/WS
8
1
5
6
X43
K46 HIGH BEAM LIGHT RELAY
30
87
4
2
X43
.5 BR
2.5 RT/WS
.35 RT/WS
X1159
2.5 RT/WS
1
X10036
P90 FRONT POWER DISTRIBUTION BOX
56a
F29 7.5A
F30 7.5A
18
20
X10017
1 WS/GN
1 WS/BL
1
X16
A2 INSTRUMENT CLUSTER
3
X17
GROUND DISTRIBUTION 0670.4
X173
GROUND DISTRIBUTION 0670.4
X173
2
X10071
E11 LEFT HIGH BEAM LIGHT
1
X10071
GROUND DISTRIBUTION 0670.4
2
X10074
E12 RIGHT HIGH BEAM LIGHT
1
X10074
GROUND DISTRIBUTION 0670.4
X165

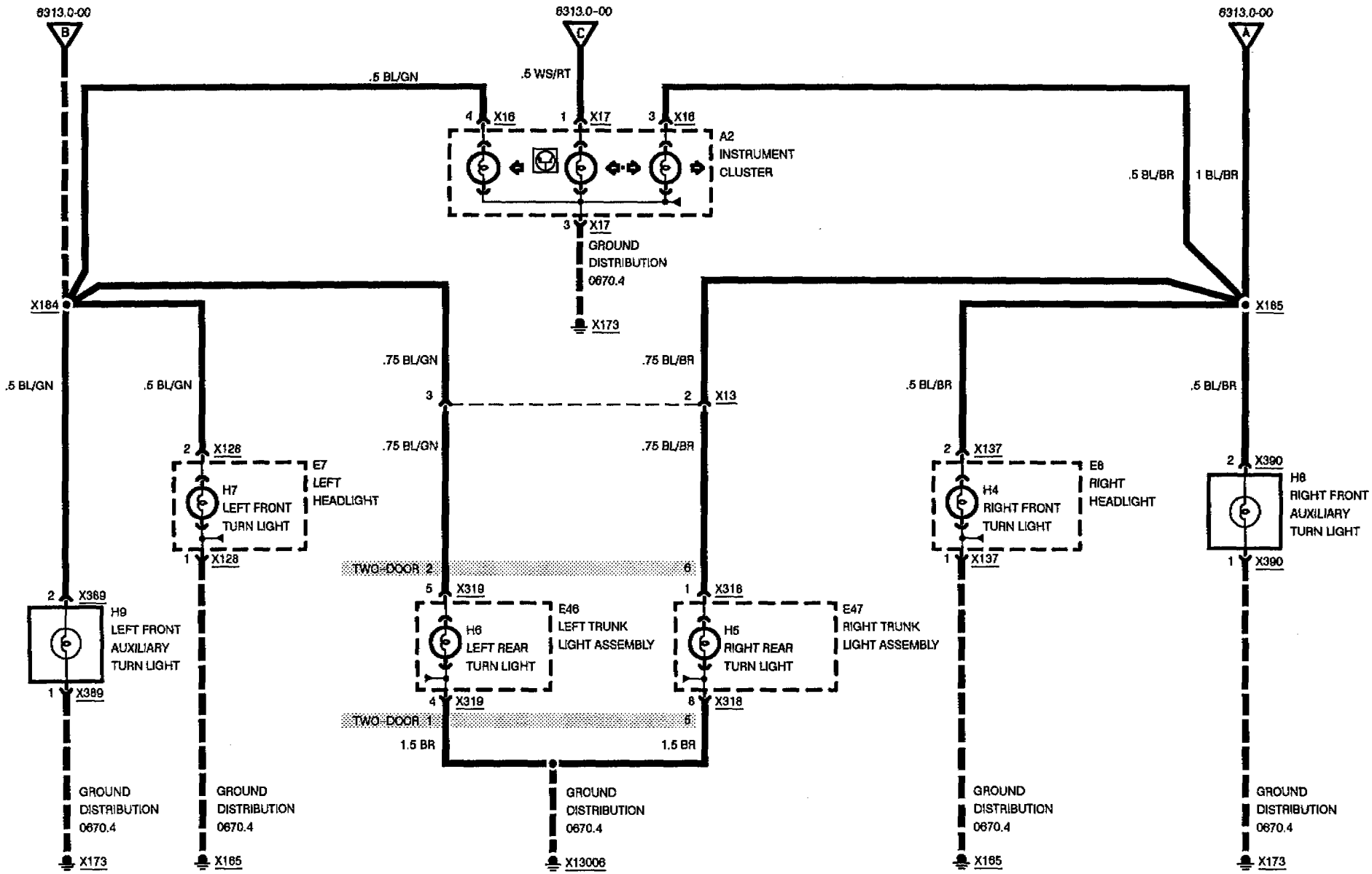

6312.0-04
C
1 GE/SW
HOT AT ALL TIMES
NSL
F17
10A
P90
FRONT POWER
DISTRIBUTION BOX
X2
14 X10016
FUSE DETAILS
0670.3
POWER
DISTRIBUTION
0670.2
HOT IN RUN AND START
S8
LIGHT SWITCH
0) OFF
1) PARK LIGHTS ON
2) HEADLIGHTS ON
9 X503
.5 GE/VI
2 X504
S82
REAR FOG LIGHT
SWITCH
0) OFF
1) ON
1 X504
4 X504
S10
FOG LIGHT
SWITCH
0) OFF
1) FRONT FOG LIGHTS ON
3 X504
1 GE/WS
.5 GE/GR
6
8 X44
5 X13
K47
FRONT FOG LIGHT
RELAY
1 GE/WS
X1214
2
1 RT/GE
5
1 GE/SW
4 X44
.75 GE/WS
5 X271
1 GE/SW
A2
INSTRUMENT
CLUSTER
9 X10016
P90
FRONT POWER
DISTRIBUTION BOX
F15
7.5A
C
6312.0-04
GROUND
DISTRIBUTION
0670.4
X173
10 X10016
1 GE/BR
.75 GE/BR
X1152
3 X17
TWO-DOOR 3
1 X319
E46
LEFT TRUNK LIGHT
ASSEMBLY
H26
LEFT REAR FOG
LIGHT
1 GE/BR
1 GE/BR
2 X768
E26
LEFT FOG LIGHT
2 X769
E27
RIGHT FOG LIGHT
8 X17
A2
INSTRUMENT
CLUSTER
4 X319
TWO-DOOR 1
1 X768
1 X769
3 X17
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X173
X13006
X165
X173

TURN/HAZARD LIGHTS

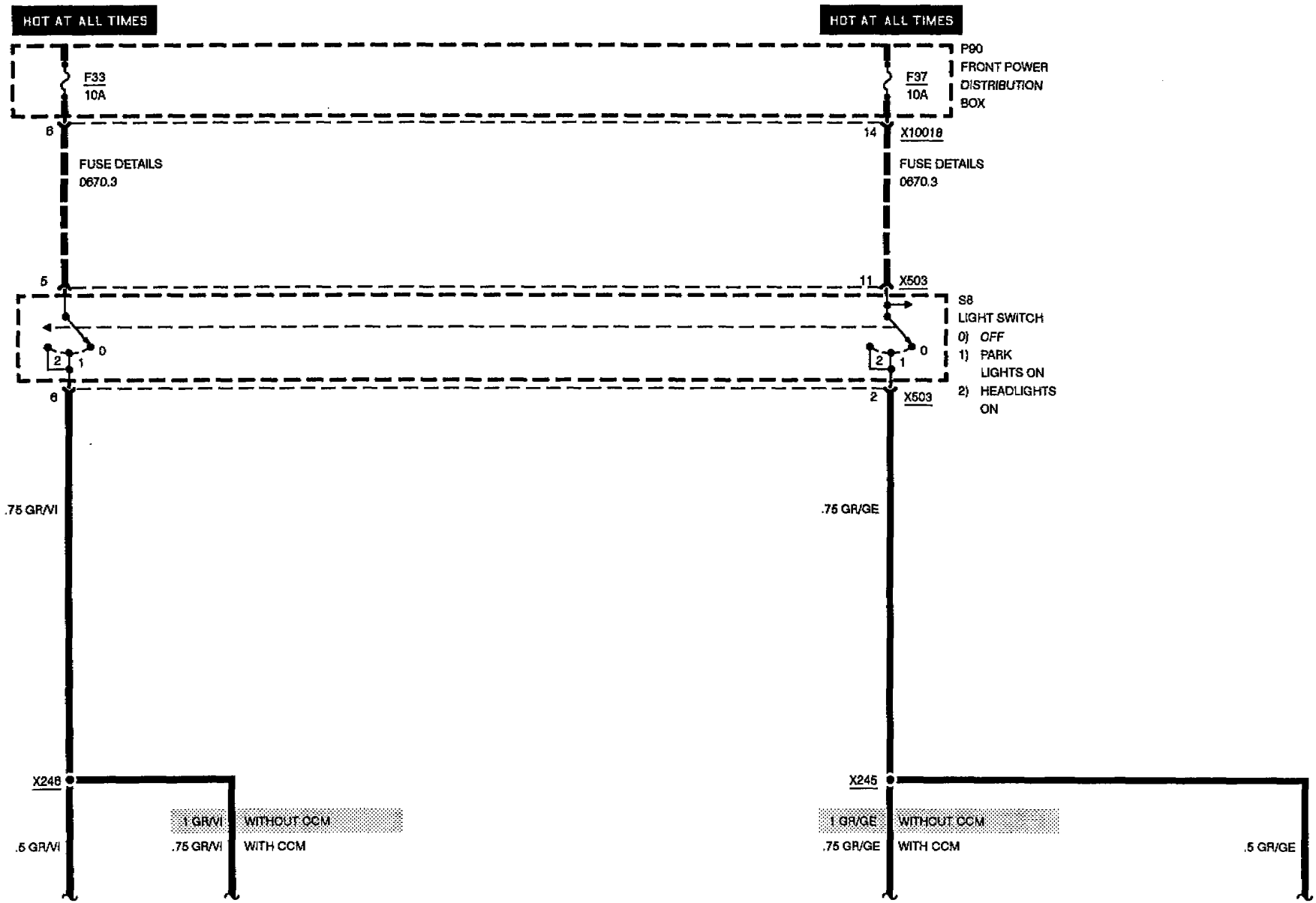


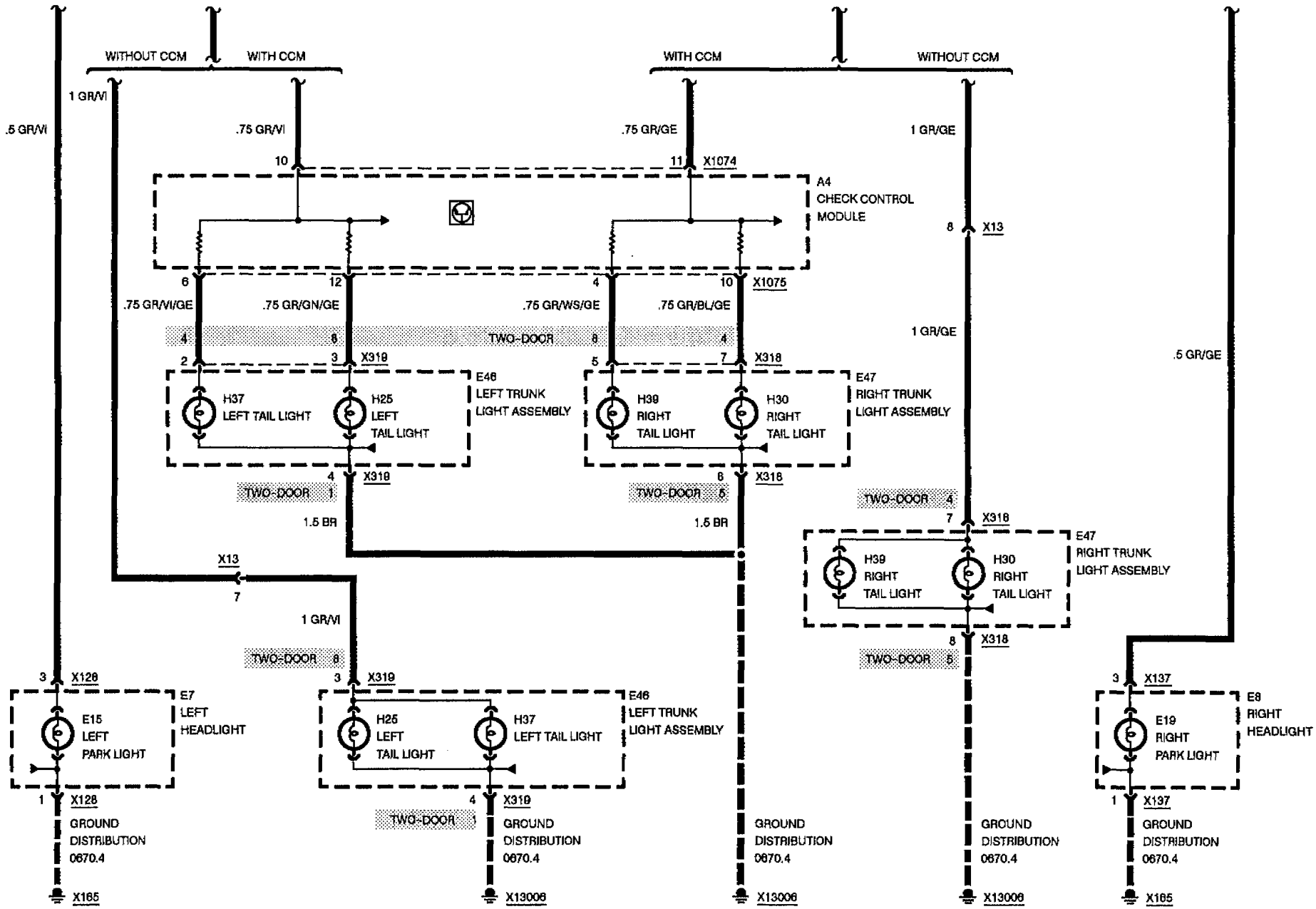

HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F34
15A
8
X10018
FUSE DETAILS
0670.3
CRASH CONTROL
MODULE
6350.0
.5 BL/GN
.5 BL/GN/GE
.5 WS/BL/GE
NOT USED
3
4
2
8
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
6
7
1
X65
.5 BR/SW/GE
CRASH CONTROL
MODULE
6350.0
GROUND
DISTRIBUTION
0670.4
X10010
.5 BR/BL
LIGHT SWITCH
DETAILS
6300.0
.5 BL/GN
.5 GR/RT
5
4
2
X516
S18
HAZARD SWITCH
1) OFF
2) ON
2
1
2
1
3
X516
GROUND
DISTRIBUTION
0670.4
X10012

TURN/HAZARD LIGHTS

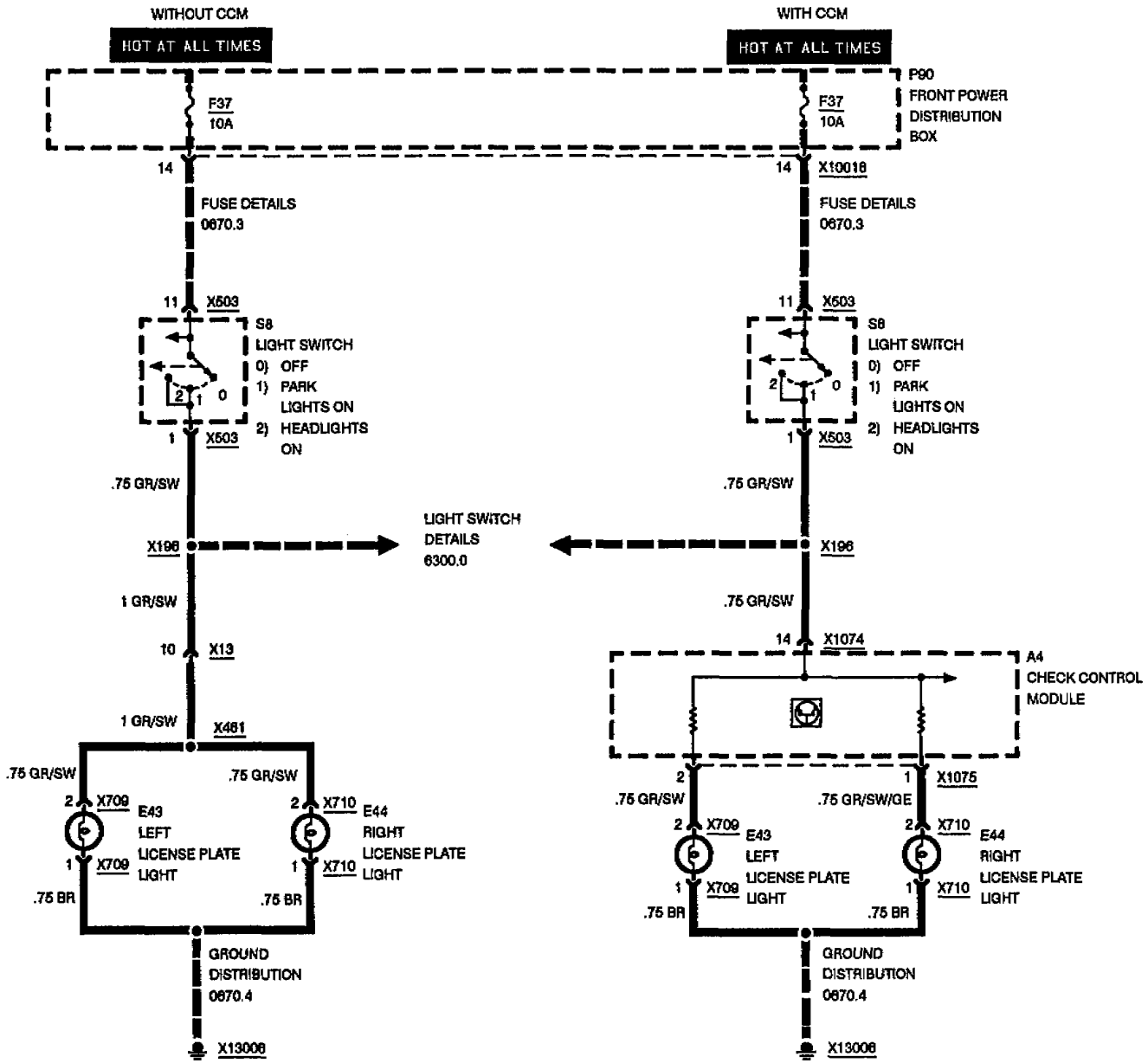


PARK/TAIL LIGHTS

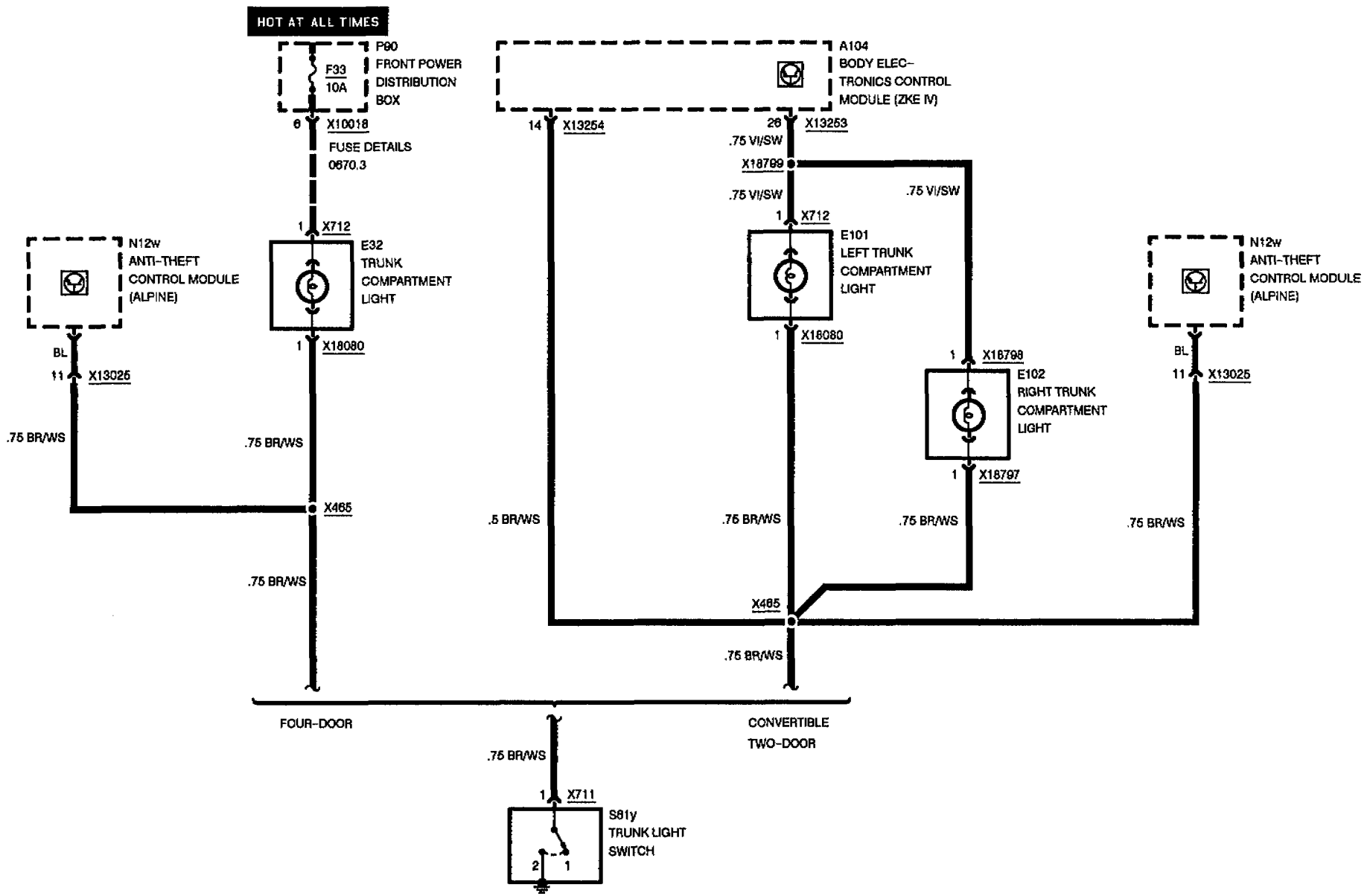



WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.5 GR/VI
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
10
11 X1074
A4
CHECK CONTROL
MODULE
8 X13
6
12
4
10 X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
1 GR/GE
.5 GR/GE
TWO-DOOR
2
3 X319
5
7 X318
E46
LEFT TRUNK
LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT
TAIL LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT
TAIL LIGHT
H30
RIGHT
TAIL LIGHT
4 X319
TWO-DOOR 1
6 X318
TWO-DOOR 5
1.5 BR
1.5 BR
TWO-DOOR 4
7 X318
X13
7
1 GR/VI
TWO-DOOR 8
8 X318
TWO-DOOR 5
3 X128
E7
LEFT
HEADLIGHT
E15
LEFT
PARK LIGHT
3 X319
E46
LEFT TRUNK
LIGHT ASSEMBLY
H25
LEFT
TAIL LIGHT
H37
LEFT TAIL LIGHT
3 X137
E8
RIGHT
HEADLIGHT
E19
RIGHT
PARK LIGHT
1 X128
GROUND
DISTRIBUTION
0670.4
4 X319
TWO-DOOR 1
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
1 X137
GROUND
DISTRIBUTION
0670.4
X165
X13006
X13006
X165

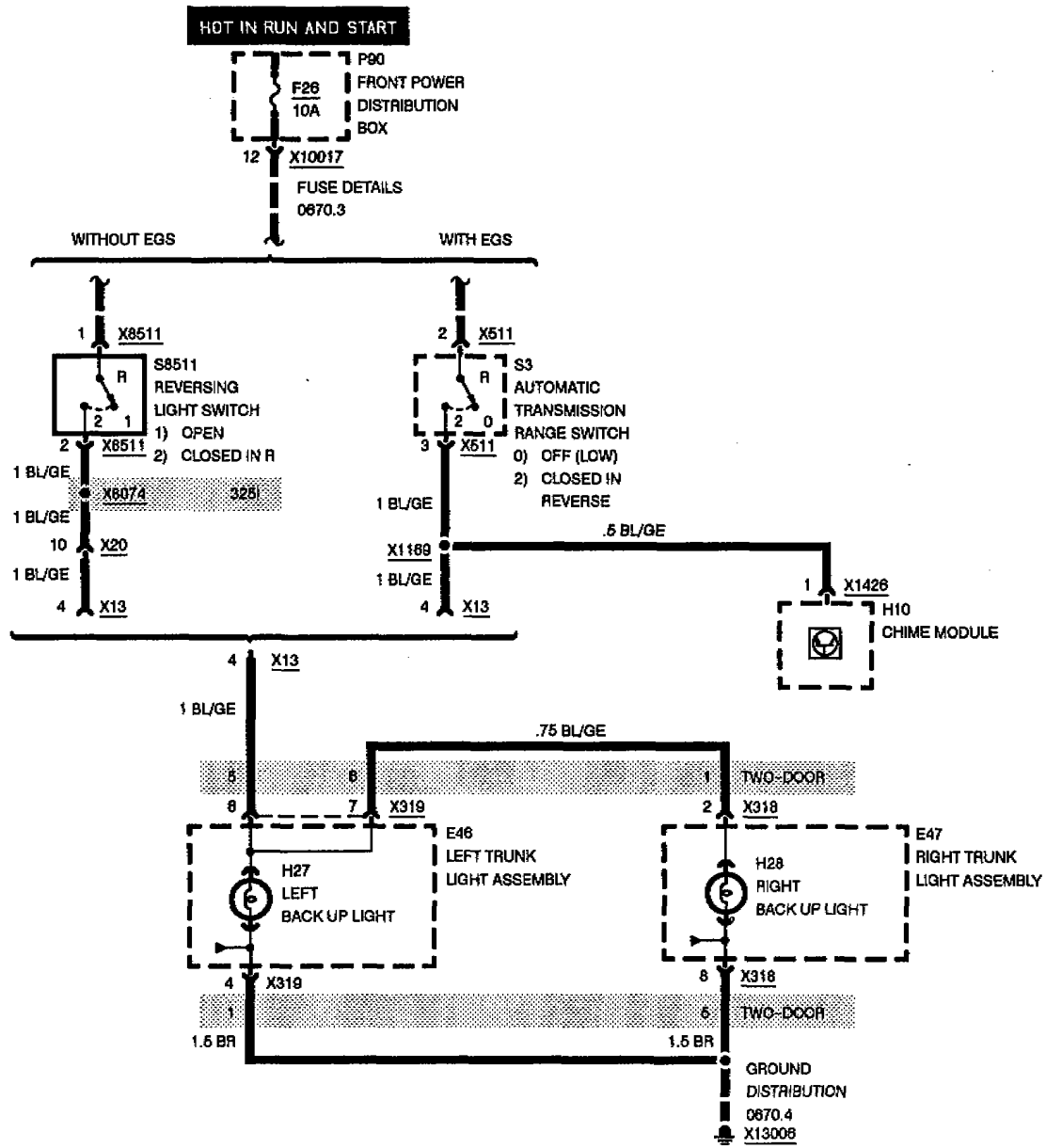
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS



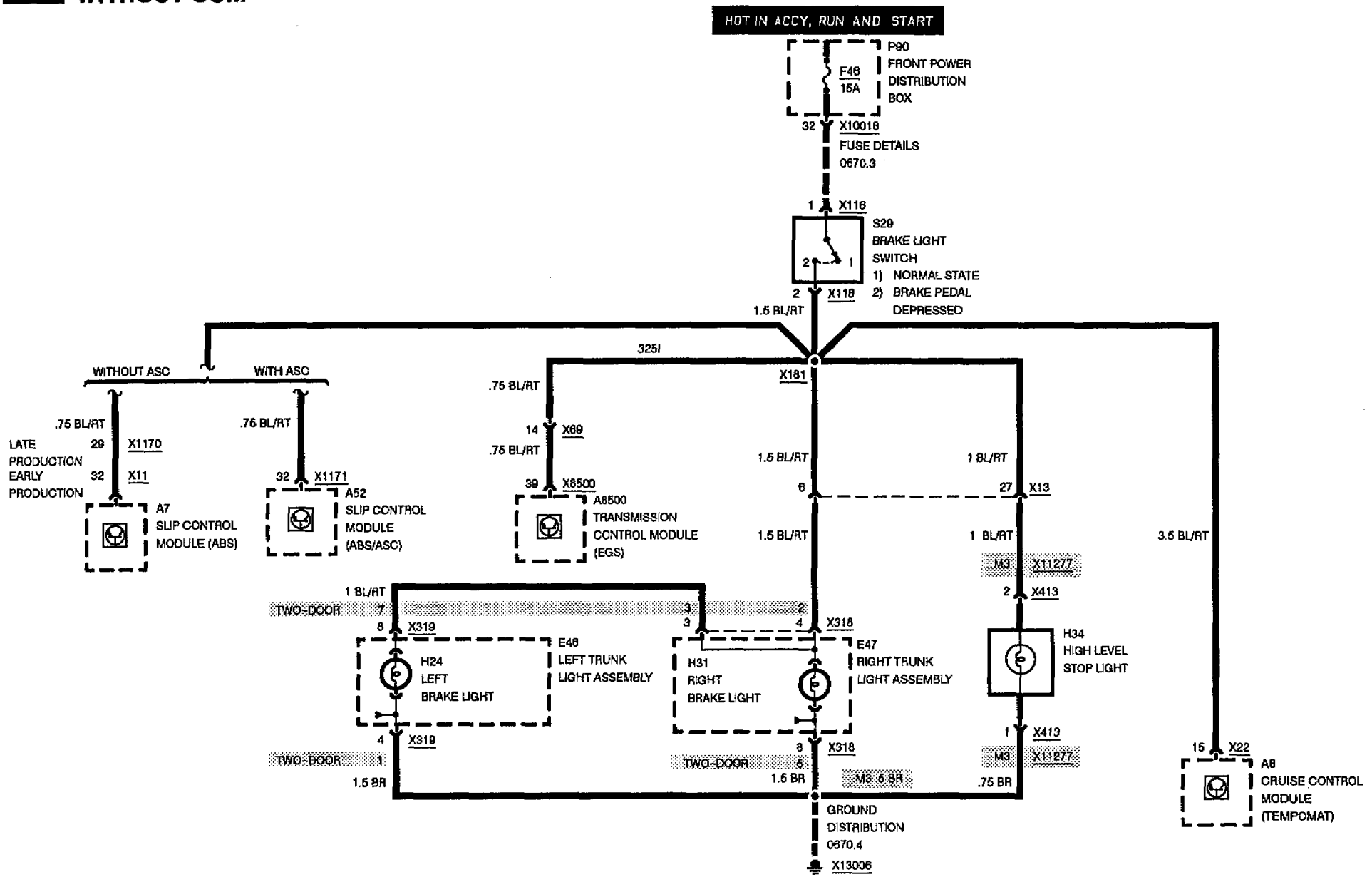
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS



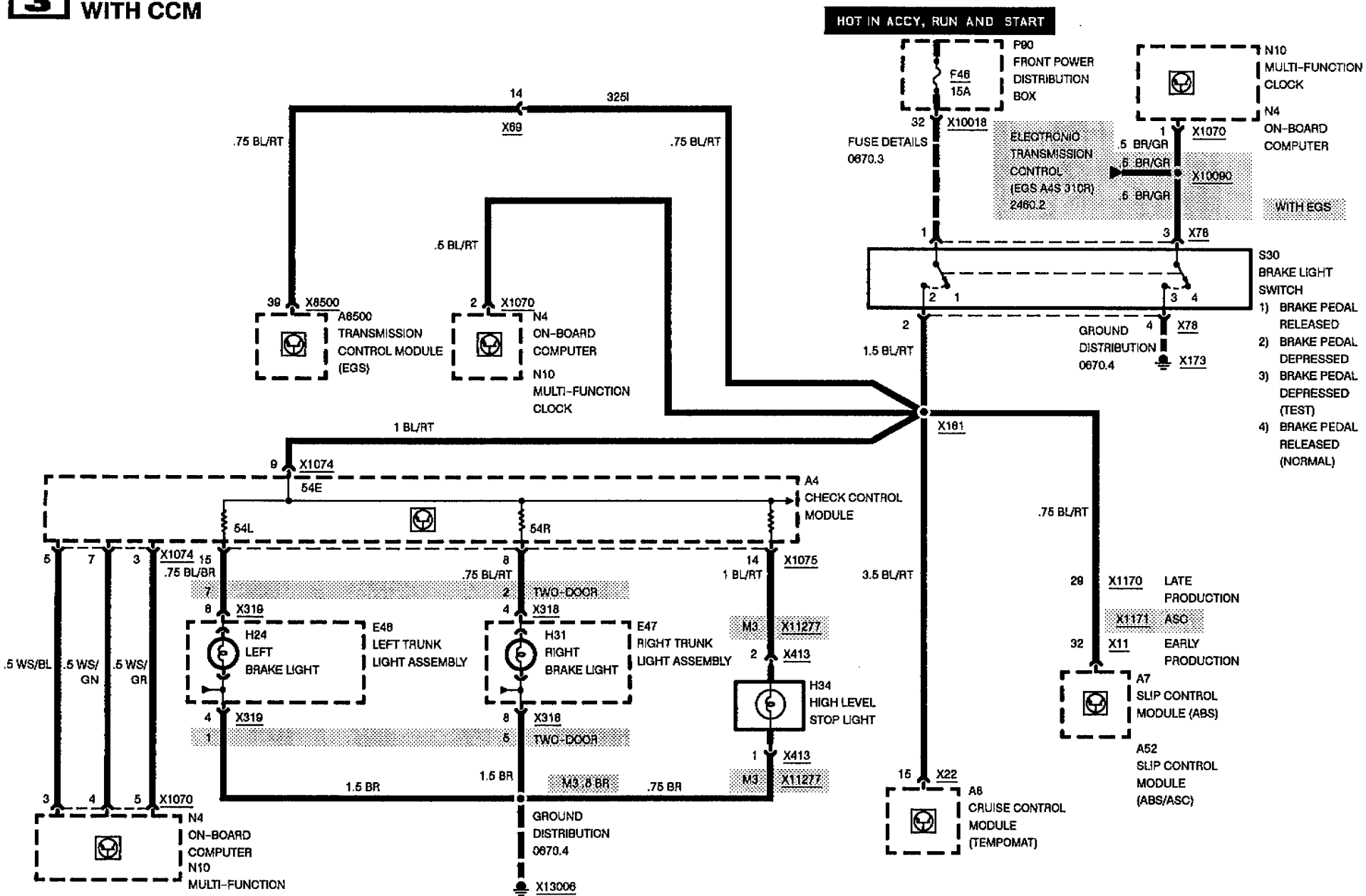
BACK UP LIGHTS



BRAKE LIGHTS
WITHOUT CCM

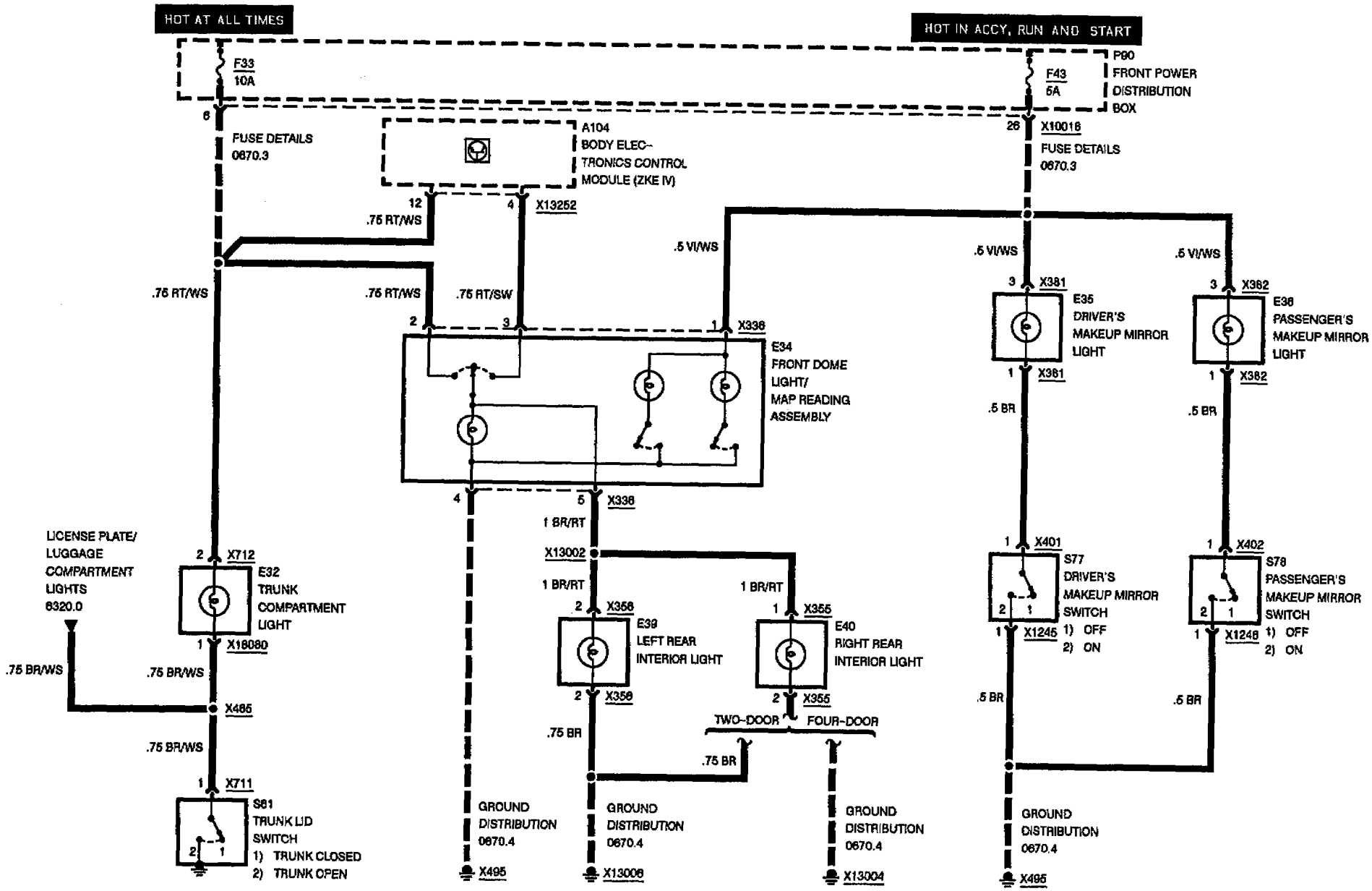


BRAKE LIGHTS
WITH CCM

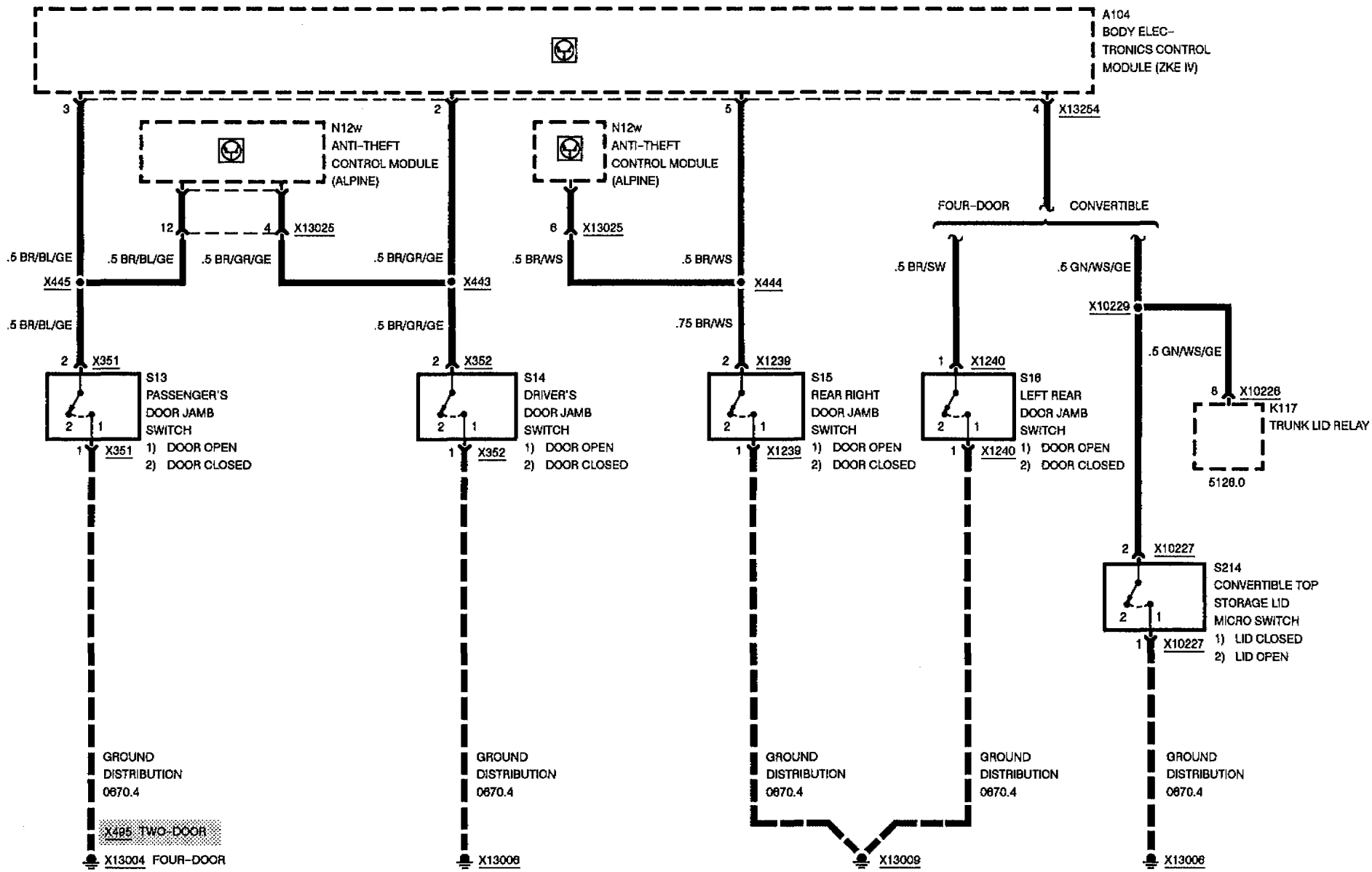


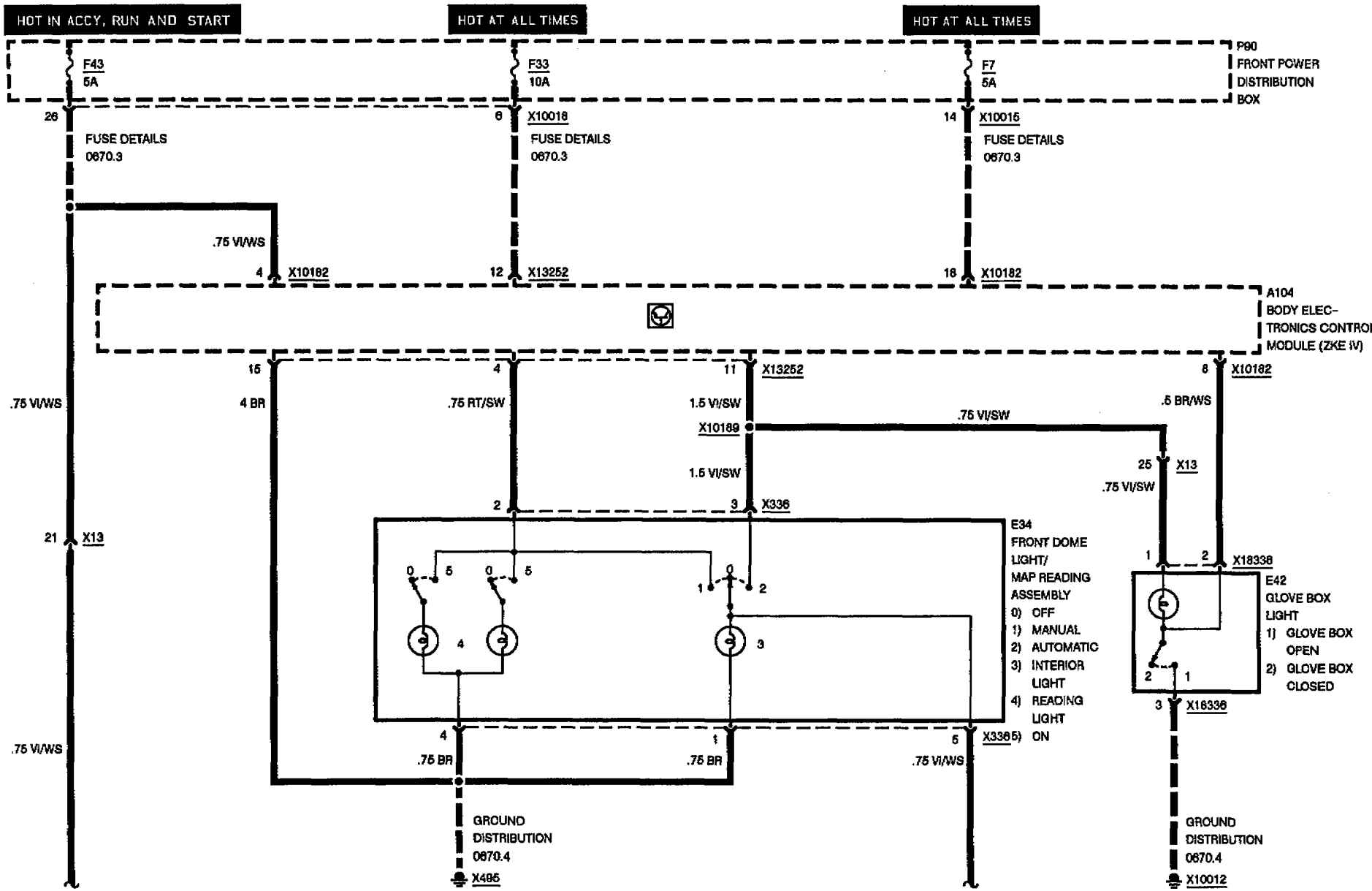
INTERIOR LIGHTS

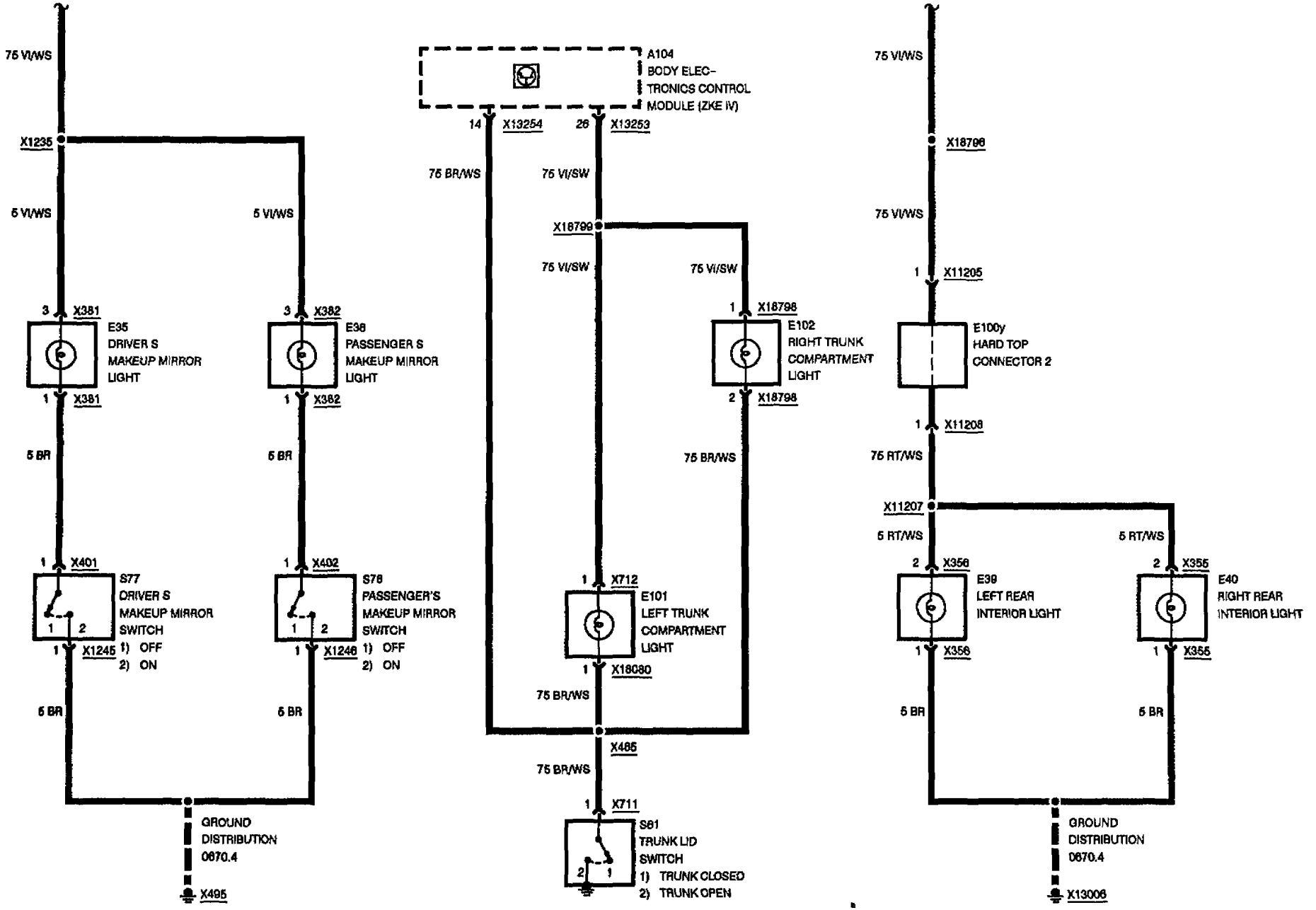
TWO DOOR/FOUR DOOR



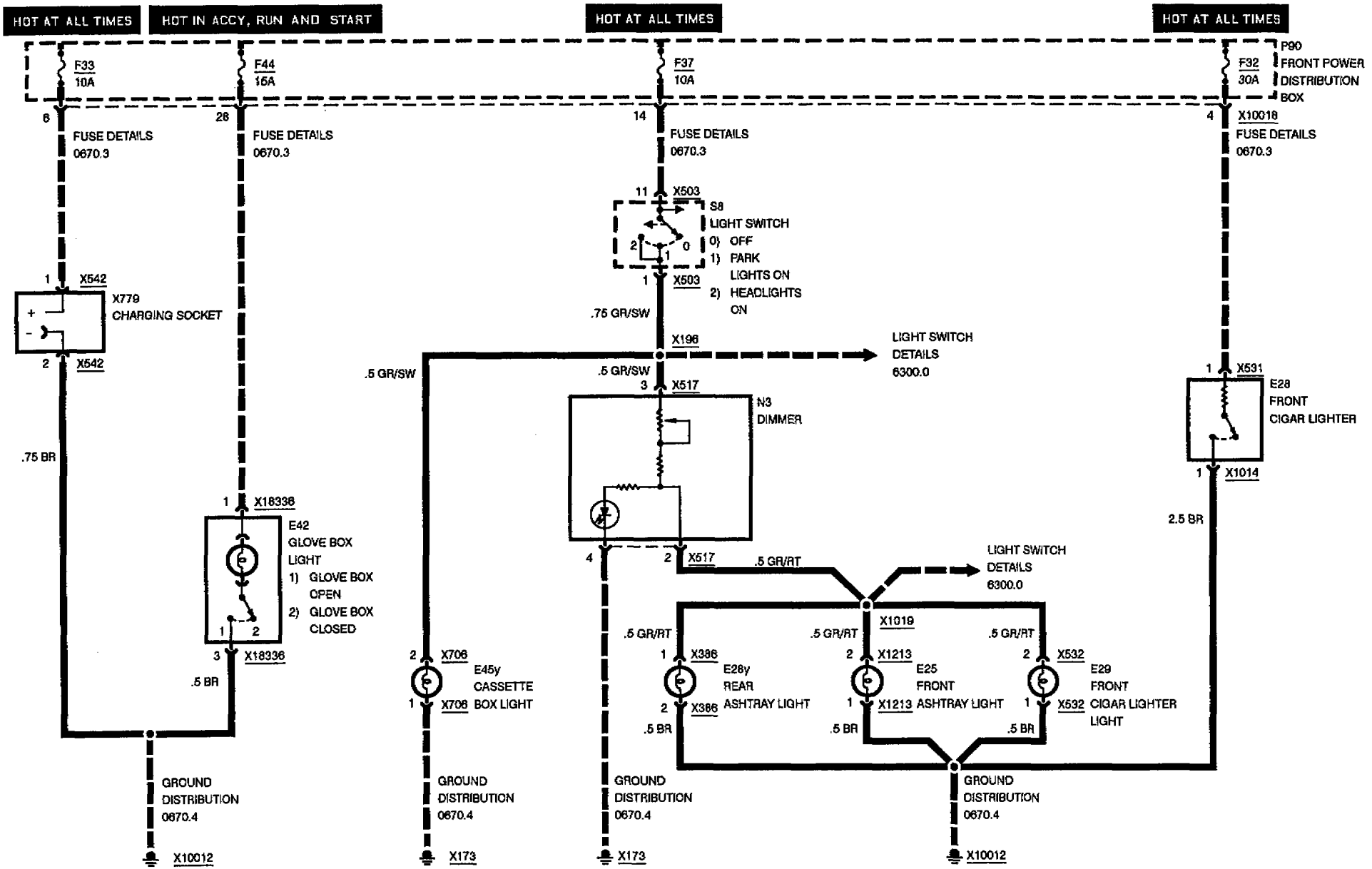
INTERIOR LIGHTS



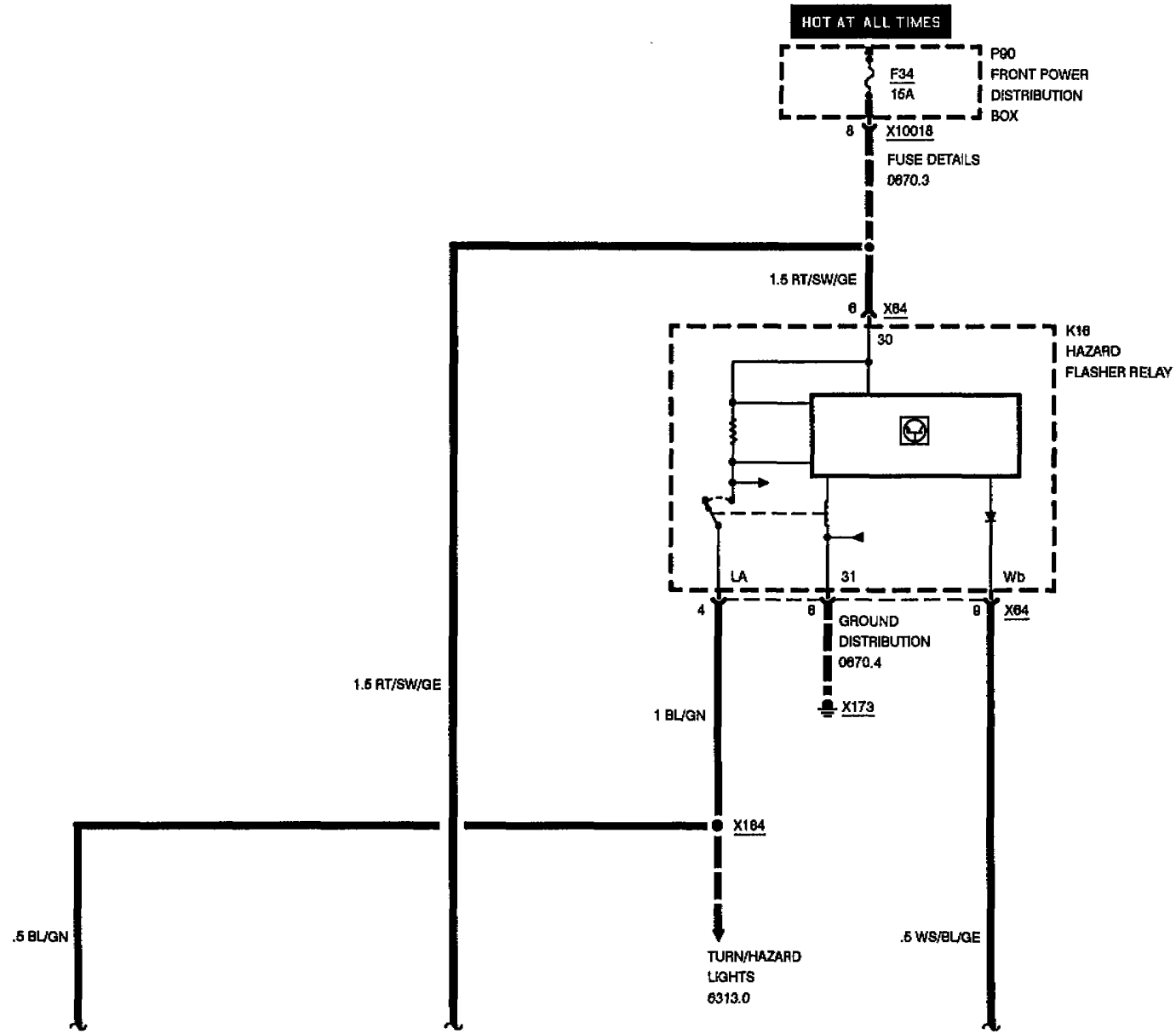

HOT IN ACCY, RUN AND START
HOT AT ALL TIMES
HOT AT ALL TIMES
F43
5A
F33
10A
F7
5A
P90
FRONT POWER
DISTRIBUTION
BOX
26
6
X10018
14
X10015
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
.75 VI/WS
4
X10182
12
X13252
18
X10182
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
15
4
11
X13252
8
X10182
.75 VI/WS
4 BR
.75 RT/SW
1.5 VI/SW
.5 BR/WS
X10189
.75 VI/SW
1.5 VI/SW
25
X13
.75 VI/SW
2
3
X336
21
X13
E34
FRONT DOME
LIGHT/
MAP READING
ASSEMBLY
0) OFF
1) MANUAL
2) AUTOMATIC
3) INTERIOR
LIGHT
4) READING
LIGHT
1
2
X18338
E42
GLOVE BOX
LIGHT
1) GLOVE BOX
OPEN
2) GLOVE BOX
CLOSED
3
X18336
.75 VI/WS
4
.75 BR
1
.75 BR
5
.75 VI/WS
X336
5) ON
GROUND
DISTRIBUTION
0670.4
X495
GROUND
DISTRIBUTION
0670.4
X10012

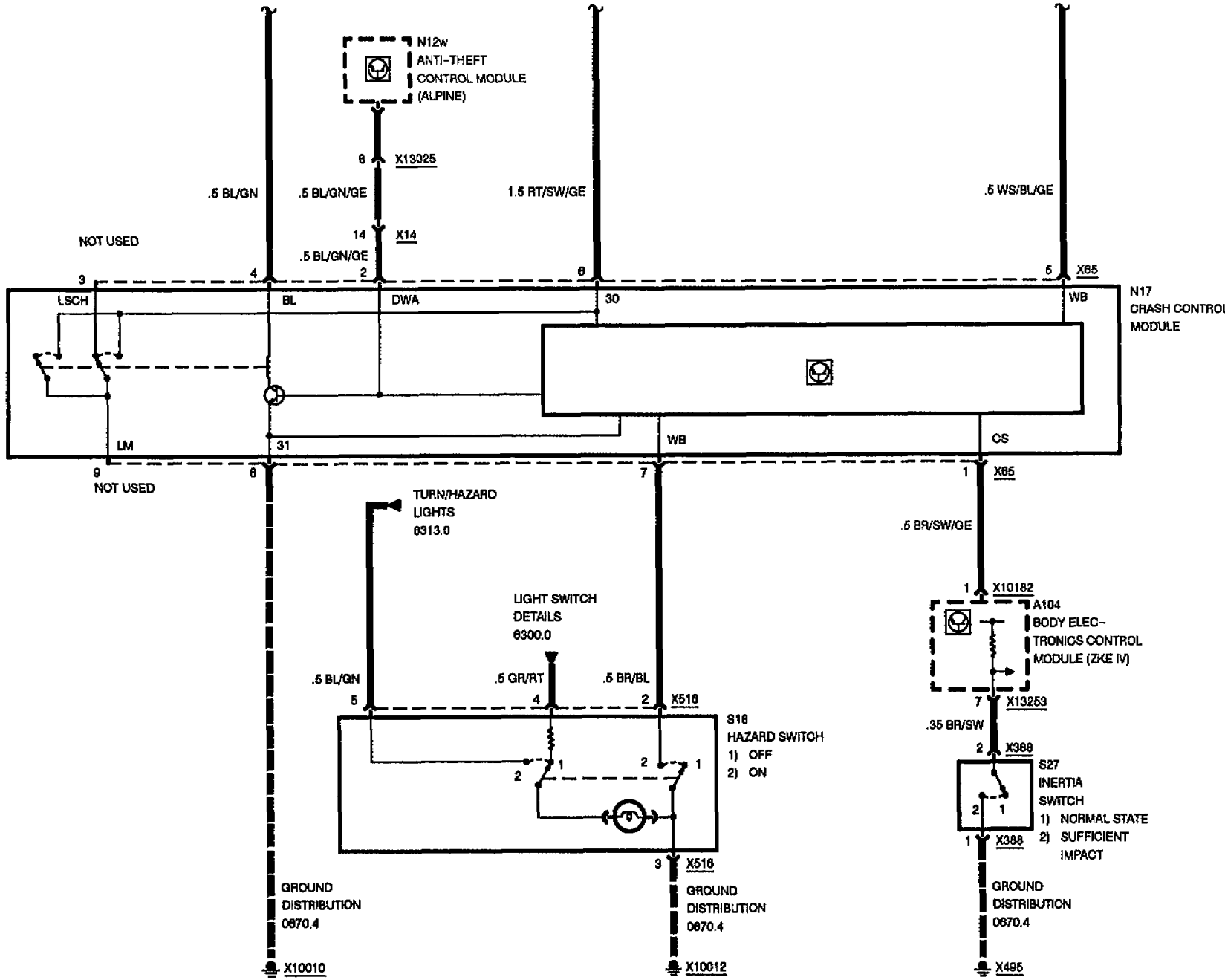

75 VI/WS
X1235
5 VI/WS
5 VI/WS
3 X381
E35
DRIVER S
MAKEUP MIRROR
LIGHT
1 X381
3 X382
E36
PASSENGER S
MAKEUP MIRROR
LIGHT
1 X382
5 BR
5 BR
1 X401
S77
DRIVER S
MAKEUP MIRROR
SWITCH
1) OFF
2) ON
1 X1245
1 X402
S76
PASSENGER'S
MAKEUP MIRROR
SWITCH
1) OFF
2) ON
1 X1246
5 BR
5 BR
GROUND
DISTRIBUTION
0670.4
X495
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
14 X13254
26 X13253
75 BR/WS
75 VI/SW
X18799
75 VI/SW
75 VI/SW
1 X18798
E102
RIGHT TRUNK
COMPARTMENT
LIGHT
2 X18798
75 BR/WS
1 X712
E101
LEFT TRUNK
COMPARTMENT
LIGHT
1 X18080
75 BR/WS
X485
75 BR/WS
1 X711
S81
TRUNK LID
SWITCH
1) TRUNK CLOSED
2) TRUNK OPEN
75 VI/WS
X18796
75 VI/WS
1 X11205
E100y
HARD TOP
CONNECTOR 2
1 X11208
75 RT/WS
X11207
5 RT/WS
5 RT/WS
2 X356
E39
LEFT REAR
INTERIOR LIGHT
1 X356
2 X355
E40
RIGHT REAR
INTERIOR LIGHT
1 X355
5 BR
5 BR
GROUND
DISTRIBUTION
0670.4
X13006

GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

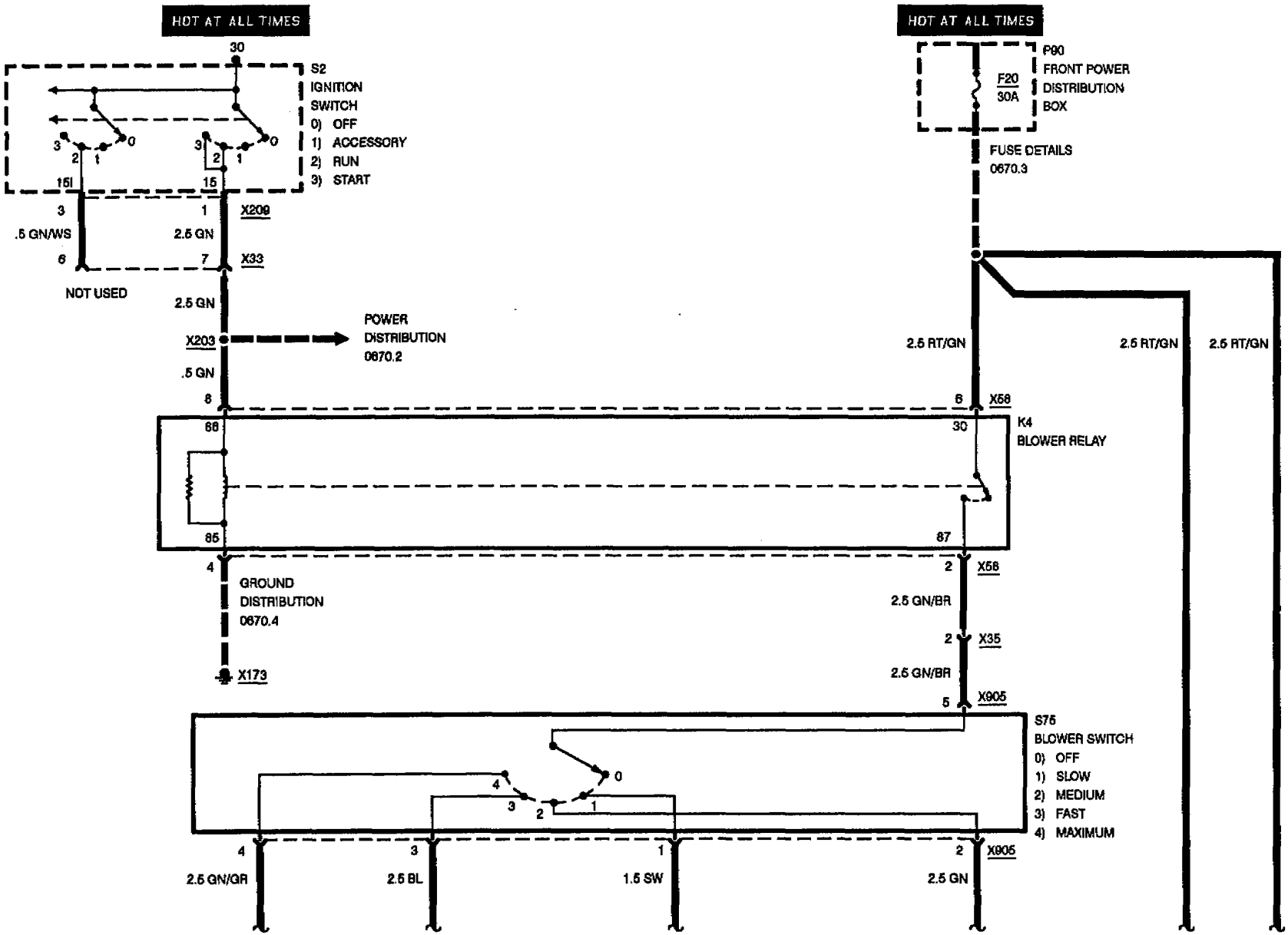


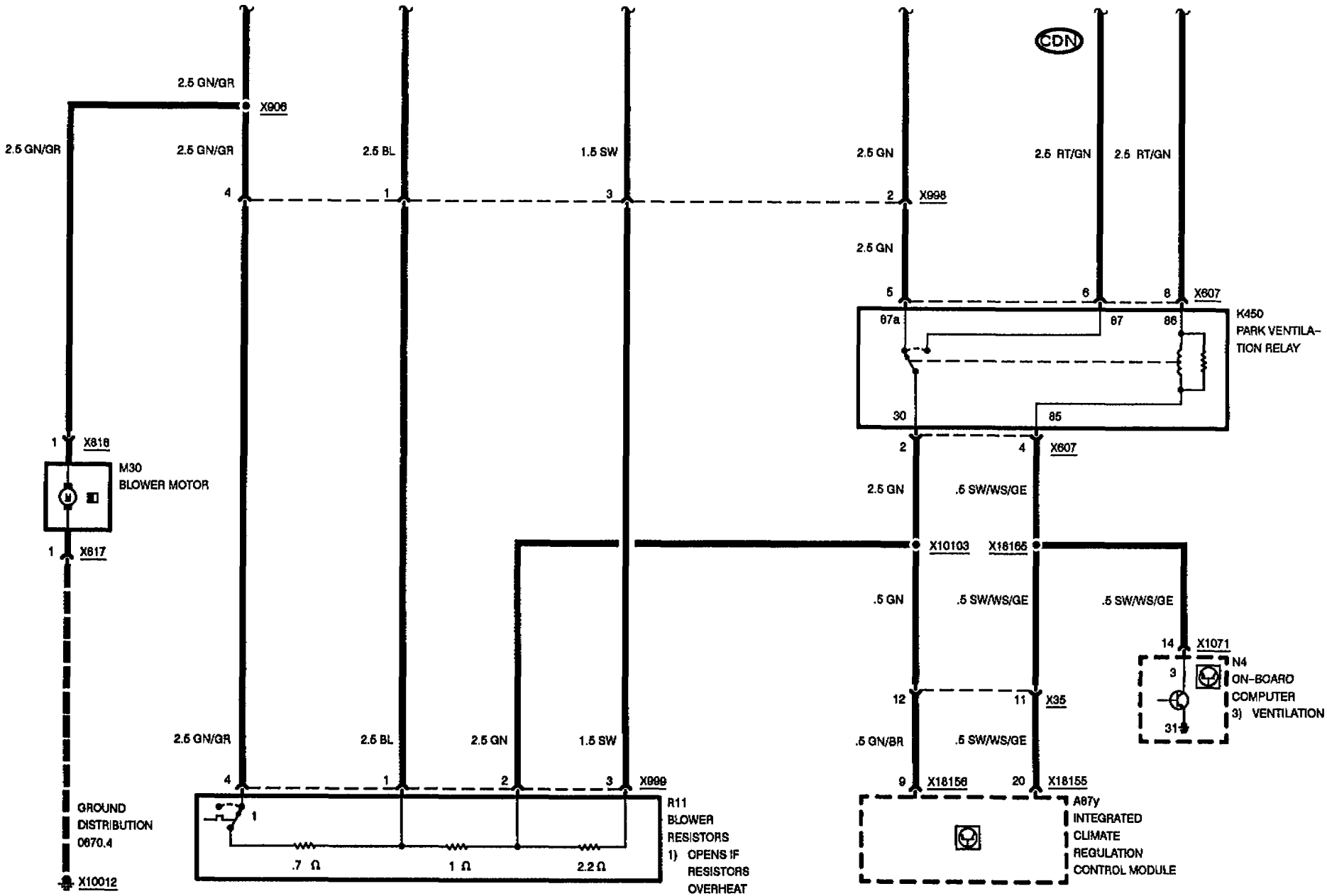
CRASH CONTROL MODULE



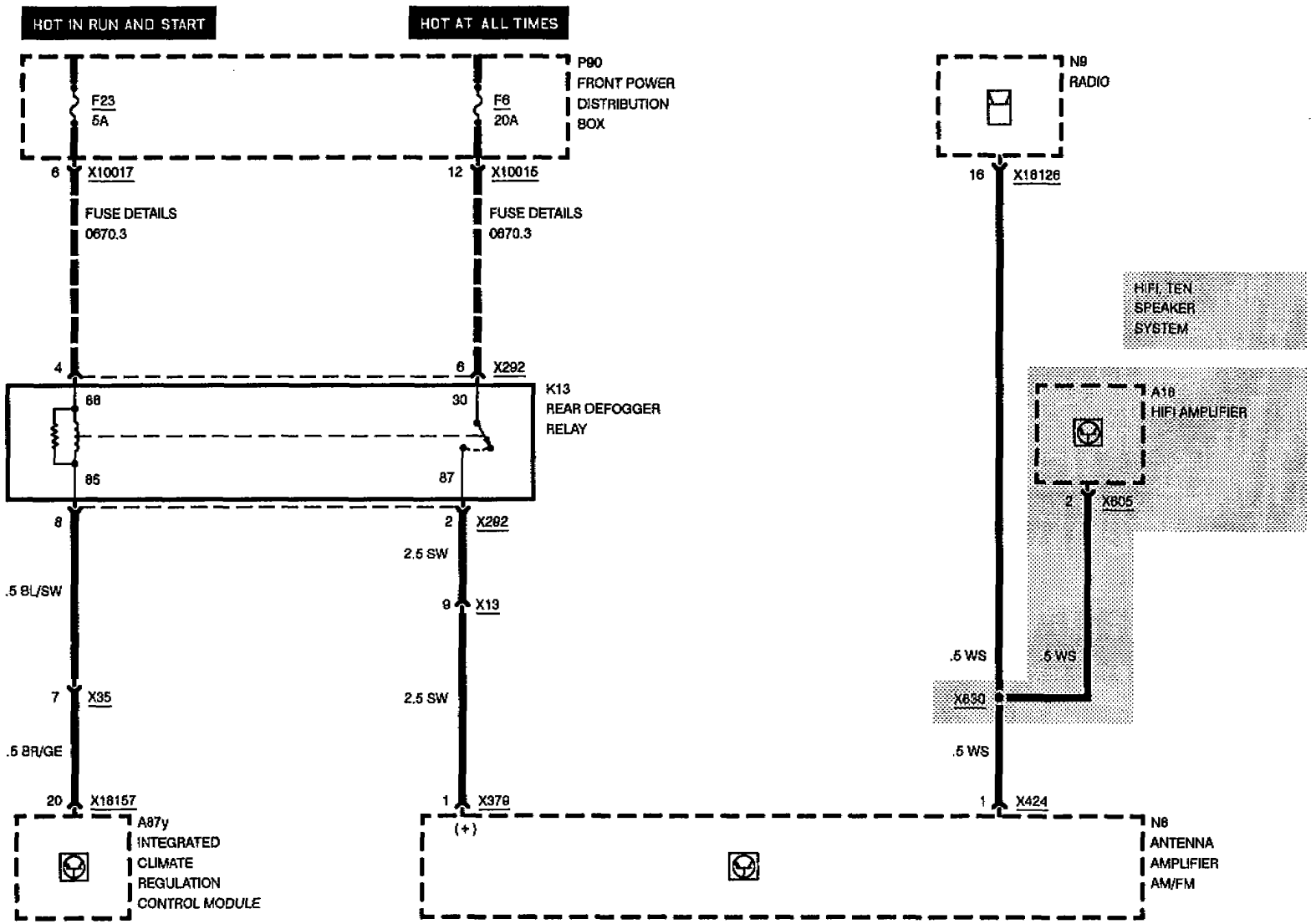

N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
6
X13025
.5 BL/GN
.5 BL/GN/GE
1.5 RT/SW/GE
.5 WS/BL/GE
14
X14
.5 BL/GN/GE
NOT USED
3
4
2
6
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
TURN/HAZARD
LIGHTS
6313.0
.5 BR/SW/GE
LIGHT SWITCH
DETAILS
6300.0
1
X10182
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2
X516
7
X13253
.35 BR/SW
S16
HAZARD SWITCH
1) OFF
2) ON
2
X388
S27
INERTIA
SWITCH
1) NORMAL STATE
2) SUFFICIENT
IMPACT
1
X388
3
X516
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X10010
X10012
X495

PARK VENTILATION WITH IHKR



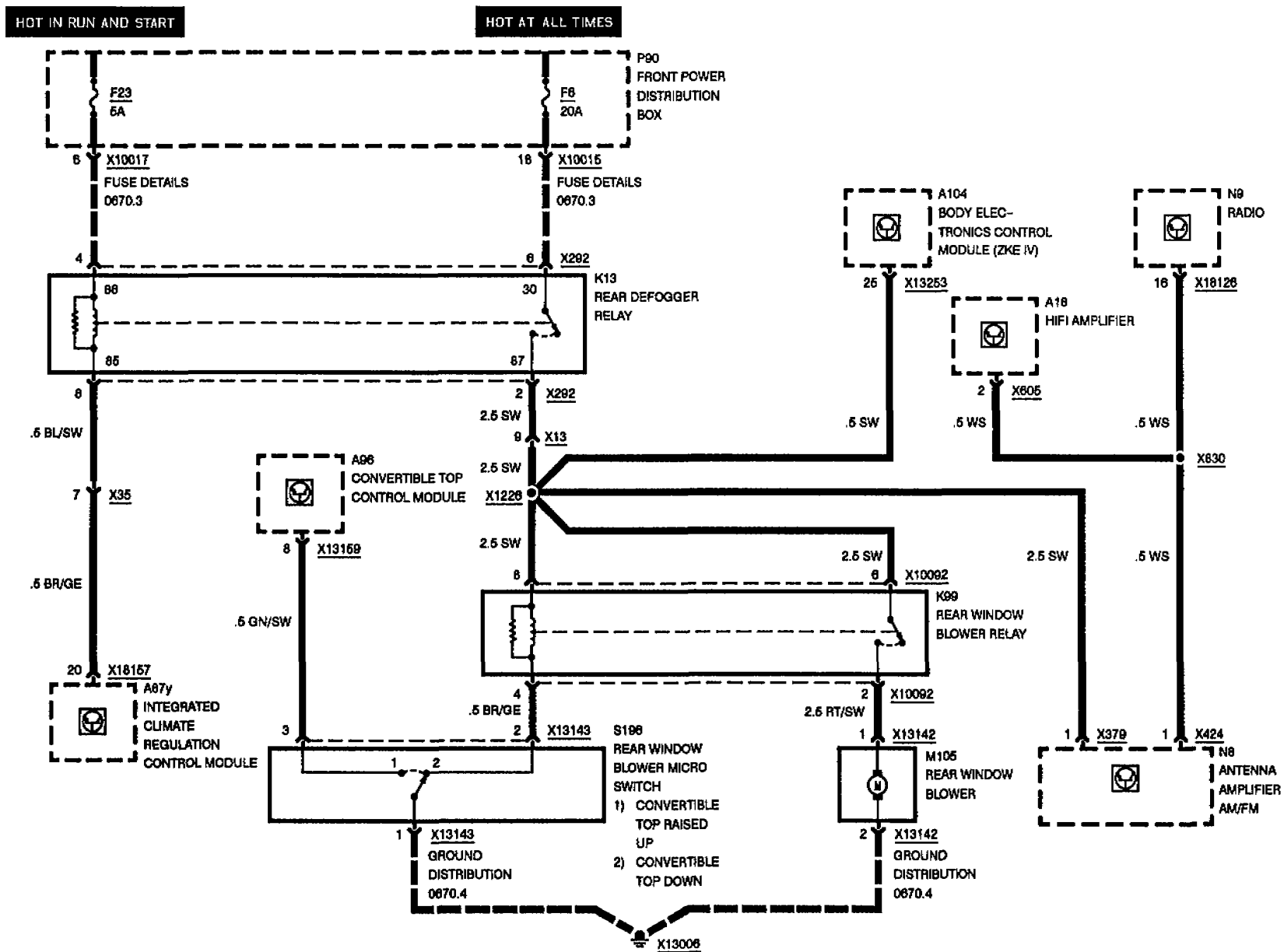

CDN
2.5 GN/GR
X906
2.5 GN/GR
2.5 GN/GR
2.5 BL
1.5 SW
2.5 GN
2.5 RT/GN
2.5 RT/GN
4
1
3
2
X998
2.5 GN
5
6
8
X607
87a
87
86
30
85
K450
PARK VENTILA-
TION RELAY
1
X816
M30
BLOWER MOTOR
1
X617
2
4
X607
2.5 GN
.5 SW/WS/GE
X10103
X18165
.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
14
X1071
3
N4
ON-BOARD
COMPUTER
3) VENTILATION
31
12
11
X35
.5 GN/BR
.5 SW/WS/GE
2.5 GN/GR
2.5 BL
2.5 GN
1.5 SW
4
1
2
3
X999
9
X18156
20
X18155
A67y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE
1
.7 Ω
1 Ω
2.2 Ω
R11
BLOWER
RESISTORS
1) OPENS IF
RESISTORS
OVERHEAT
GROUND
DISTRIBUTION
0670.4
X10012

REAR WINDOW DEFOGGER



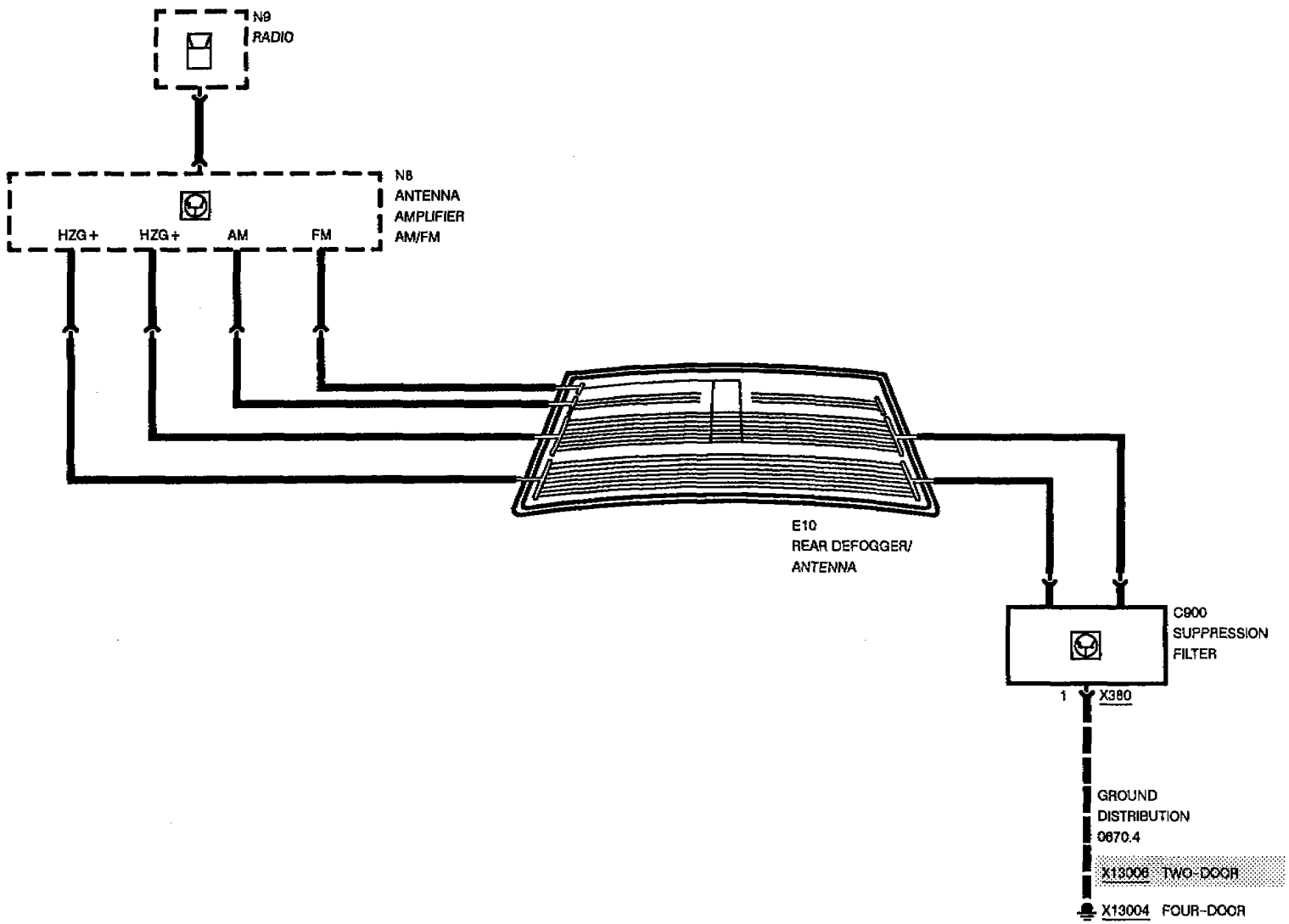
REAR WINDOW DEFOGGER

CONVERTIBLE



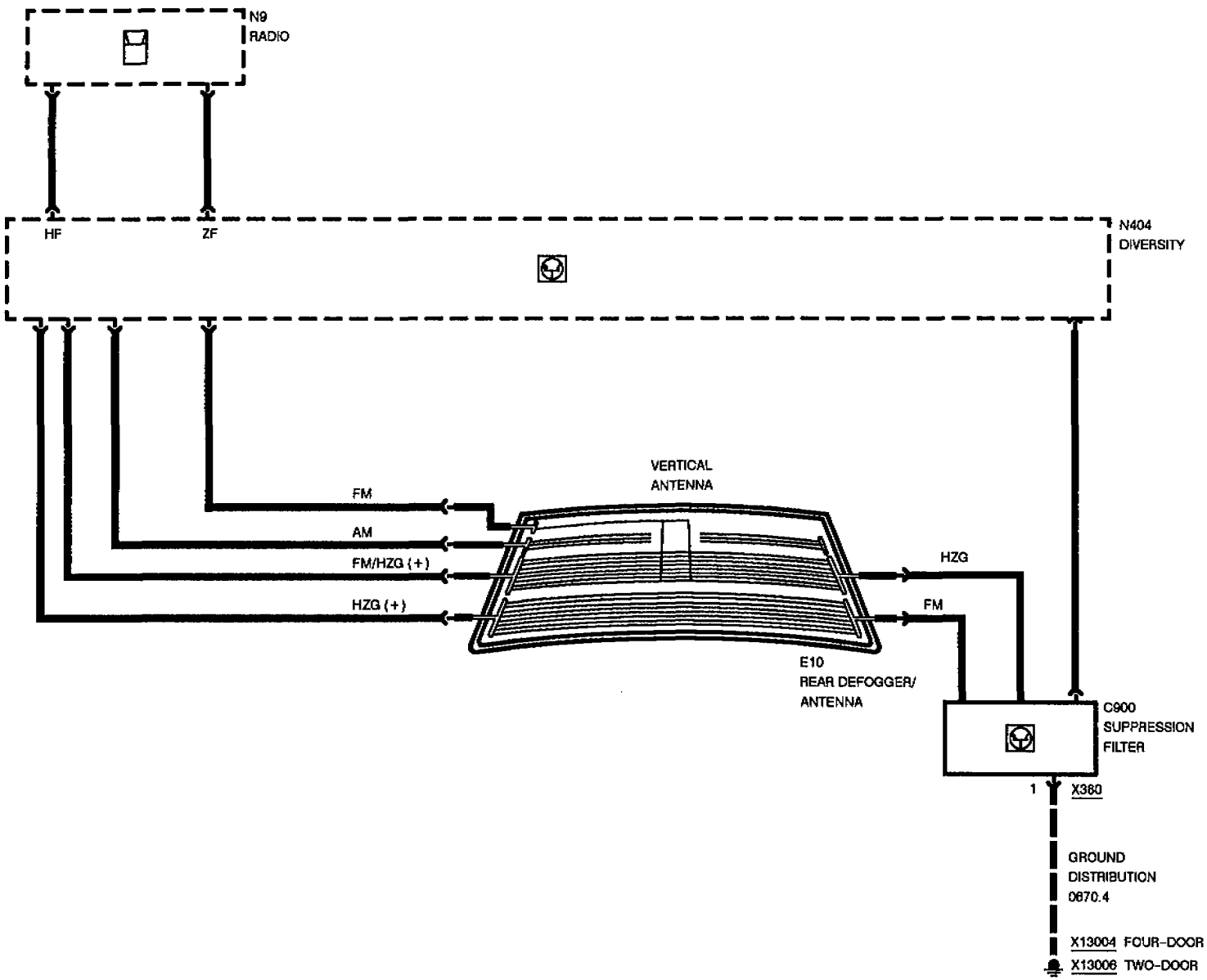
REAR WINDOW DEFOGGER

REAR WINDOW ANTENNA

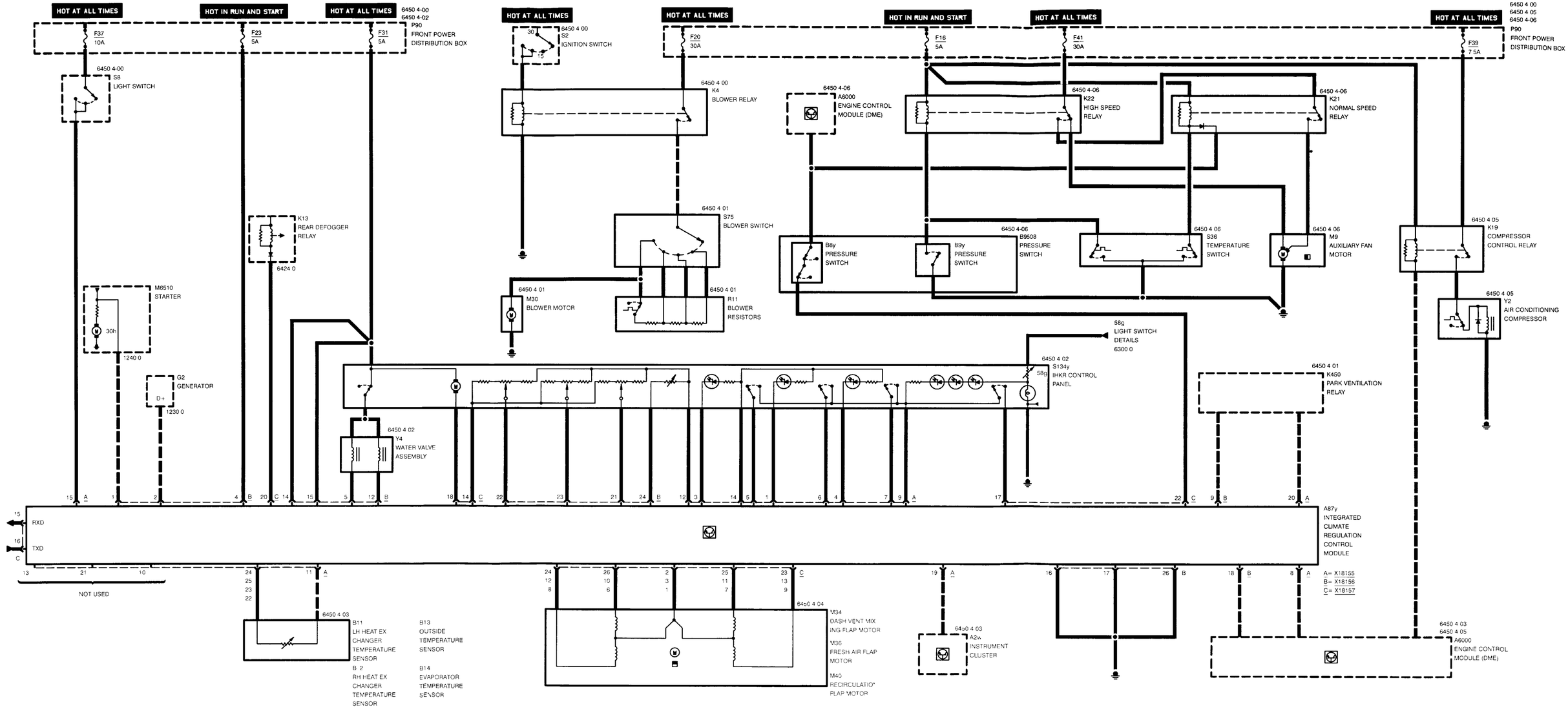


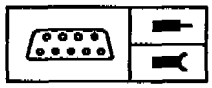
REAR WINDOW DEFOGGER

3-ANTENNA-DIVERSITY



09/94 6450 4 1995
09/94 6450 4 1995





Pin Assignments

A = X18155	26 Pins, white
B = X18156	26 Pins, black
C = X18157	26 Pins, blue

X18155

Pin	Type	Description/Function	Connection
1	A	Function light, air recirculation	IHKR control panel
2		Not used	
3	A	Function light, rear window defogger	IHKR control panel
4	A	Function light, air conditioning	IHKR control panel
5	E	Rear window defogger switch	IHKR control panel
6	E	Air circulation switch	IHKR control panel
7	E	Air conditioning switch	IHKR control panel
8		Not used	
9	A	Ground for rear window defogger switch, air recirculation switch, air conditioning switch, electric flaps switch, and function lights	IHKR control panel
10		Not used	
11	A	Ground for temperature sensors	Various temperature sensors
12	A	Ground for rotary switches and interior temperature sensor	IHKR control panel
13		Not used	
14	E	Voltage supply for function lights	IHKR control panel
15 (USA)	E	Terminal 58K	Light switch
16		Not used	
17		Not used	
18	E	Crankshaft position/RPM signal TD	Engine control module (DME)
19	A	Vehicle speed	Instrument cluster
20	E	Independent ventilation	Park heating/ventilation relay
21		Not used	
22	A/E	Evaporator temperature	Evaporator temperature sensor
23	A/E	Outside temperature	Outside temperature sensor

E = Input, A = Output, M = Ground

Pin Assignments

Pin	Type	Description/Function	Connection
24	A/E	Heater temperature, left	Left heat exchanger temperature sensor
25	A/E	Heater temperature, right	Right heat exchanger temperature sensor
26		Not used	

X18156

Pin	Type	Description/Function	Connection
1	E	Terminal 30h	Starter, terminal 30h
2	E	Terminal 61	Generator
3		Not used	
4	E	Voltage supply, terminal 15	Front power distribution box, fuse 23
5	A	Left water valve activation	Water valve assembly
6		Not used	
7		Not used	
8		Not used	
9		Terminal 15 (independent ventilation only)	Park heating/ventilation relay
10		Not used	
11		Not used	
12	A	Right water valve activation	Water valve assembly
13		Not used	
14	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
15	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
16	M	Ground for load circuit	Ground point
17	M	Ground for load circuit	Ground point
18	A	Engine control module (DME) activation (anti-stall)	Engine control module (DME)
19		Not used	
20		Not used	
21	E	Nominal temperature valve, right	IHKR control panel
22	E	Nominal temperature valve, left	IHKR control panel
23	E	Nominal air flow valve	IHKR control panel
24	A/E	Interior temperature sensor	IHKR control panel

E = Input, A = Output, M = Ground

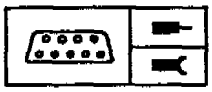
Pin Assignments

Pin	Type	Description/Function	Connection
25		Not used	
26	M	Ground for electronics	Ground point

X18157

Pin	Type	Description/Function	Connection
1	A	Voltage supply for recirculation flap motor	Recirculation flap motor
2	A	Voltage supply for dash vent mixing flap motor	Dash vent mixing flap motor
3	A	Voltage supply for fresh air flap motor	Fresh air flap motor
4		Not used	
5		Not used	
6	A	Recirculation flap motor activation	Recirculation flap motor
7	A	Recirculation flap motor activation	Recirculation flap motor
8	A	Recirculation flap motor activation	Recirculation flap motor
9	A	Recirculation flap motor activation	Recirculation flap motor
10	A	Fresh air flap motor activation	Fresh air flap motor
11	A	Fresh air flap motor activation	Fresh air flap motor
12	A	Fresh air flap motor activation	Fresh air flap motor
13	A	Fresh air flap motor activation	Fresh air flap motor
14	A	Voltage supply for rotary switches	IHKR control panel
15	A	RxD diagnostic data line	Data link connector
16	E/A	TxD diagnostic data line	Data link connector
17	E	Ventilation flap switch	IHKR control panel
18	A	Interior sensor blower activation	IHKR control panel
19		Not used	
20	A	Rear window defogger activation	Rear defogger relay, terminal 86b
21		Not used	
22	A	Activate A/C compressor	Pressure switch
23	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
24	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground



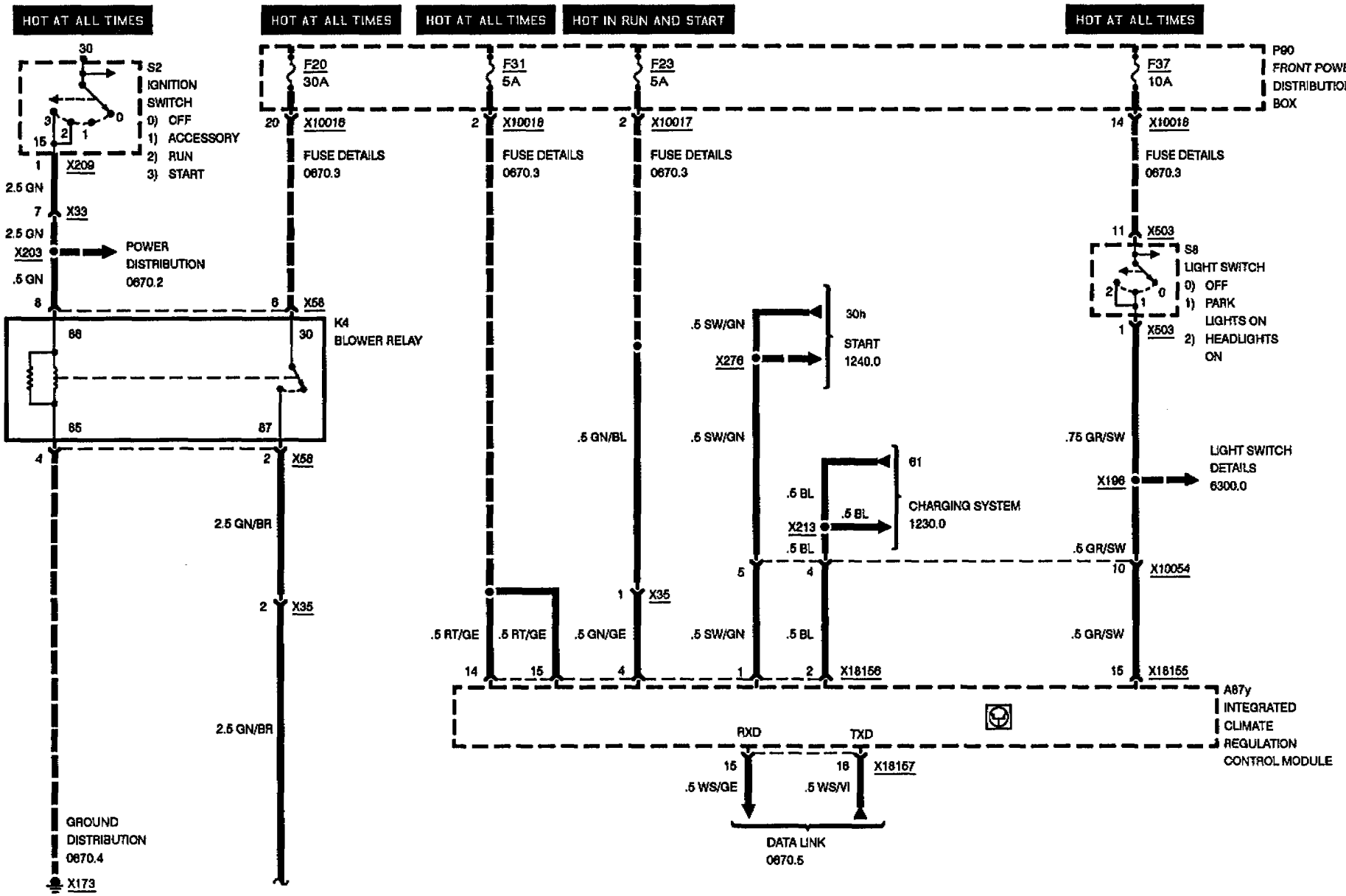
Pin Assignments

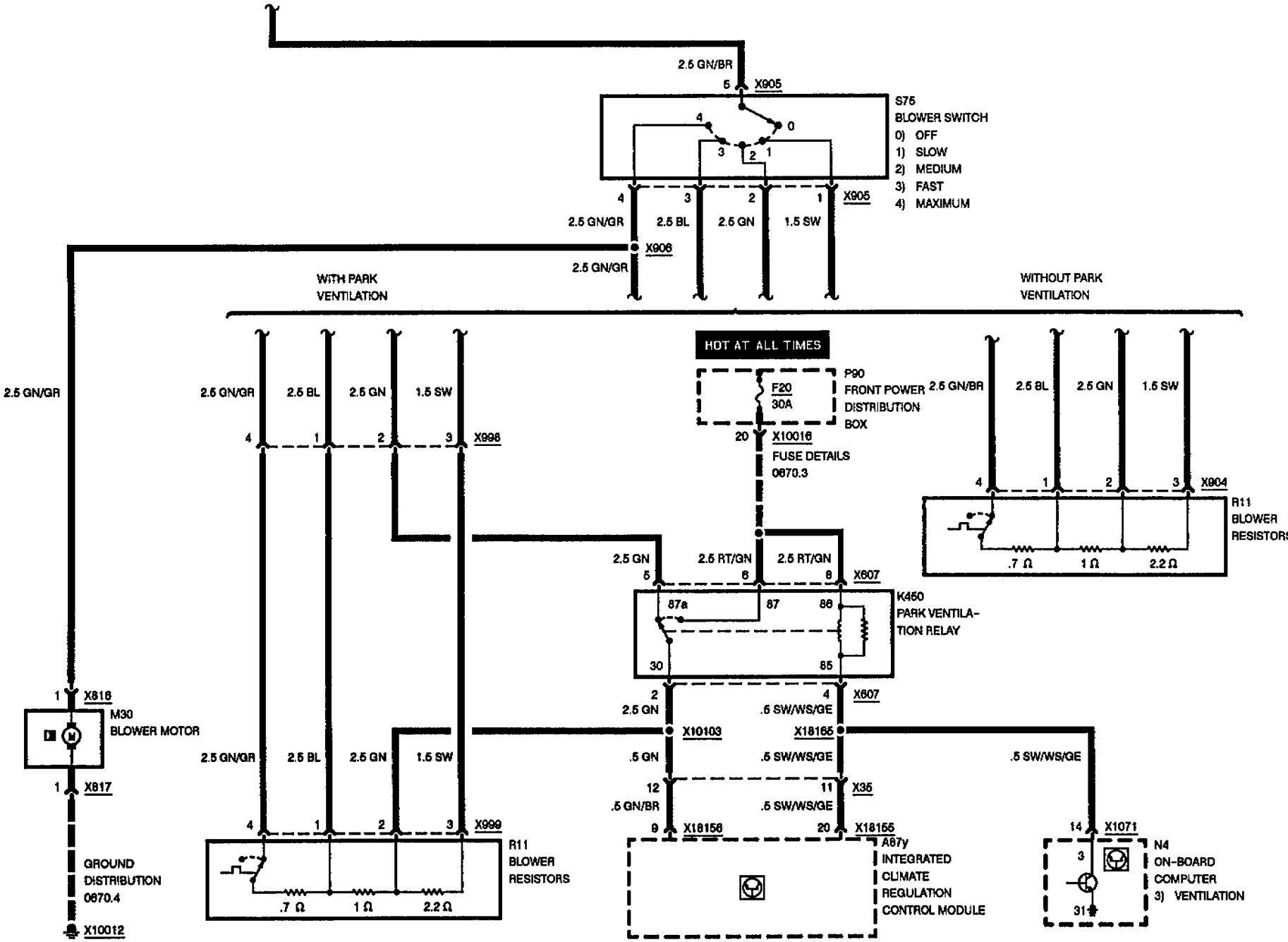
Pin	Type	Description/Function	Connection
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground

INTEGRATED CLIMATE REGULATION (IHKR E36)

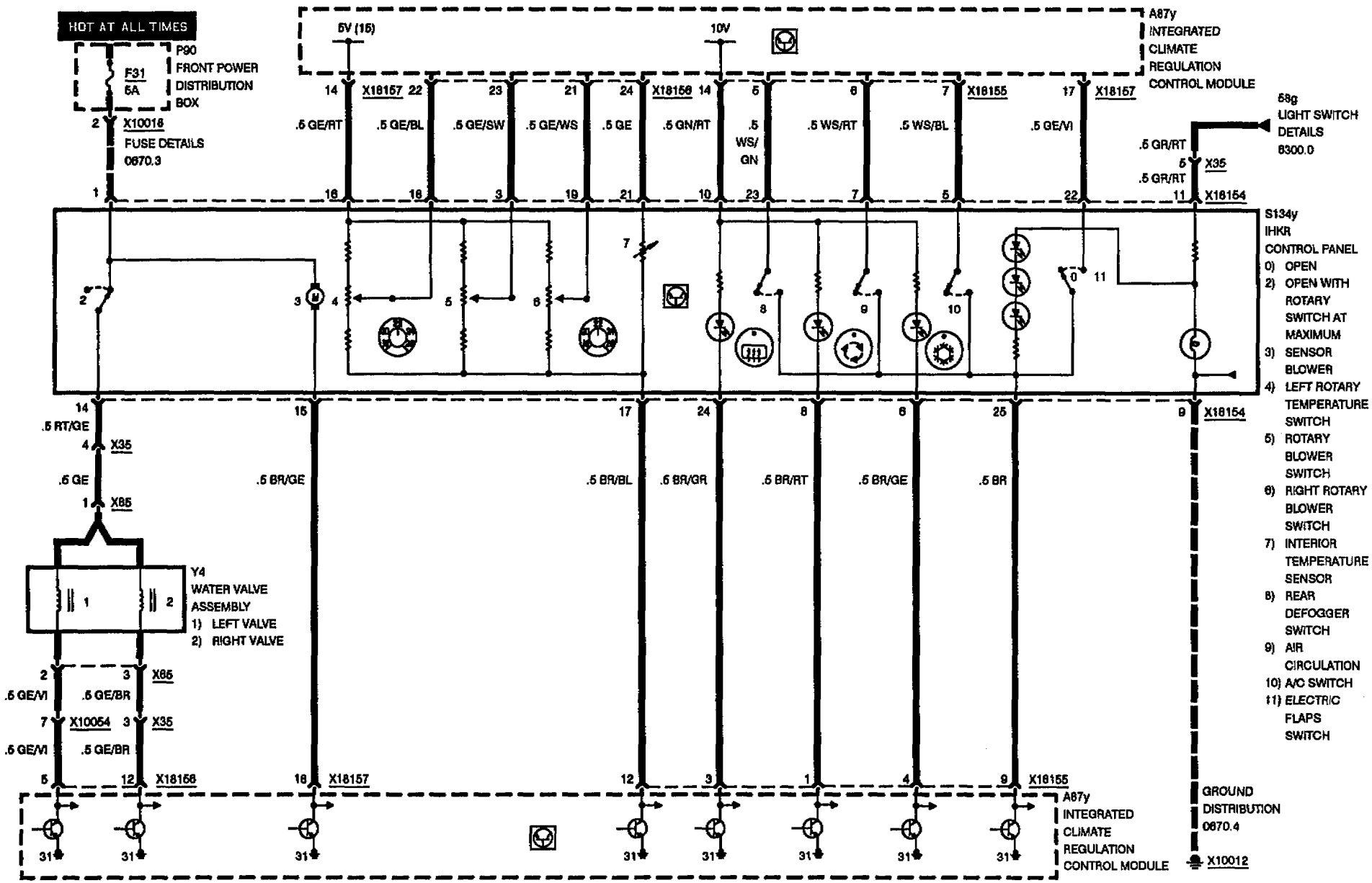
POWER, BLOWER CONTROLS




2.5 GN/BR
5 X905
S75
BLOWER SWITCH
0) OFF
1) SLOW
2) MEDIUM
3) FAST
4) MAXIMUM
4 3 2 1 X905
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
X906
2.5 GN/GR
WITH PARK VENTILATION
WITHOUT PARK VENTILATION
HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F20
30A
20 X10016
FUSE DETAILS
0670.3
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW X998
2.5 GN/BR 2.5 BL 2.5 GN 1.5 SW X904
R11
BLOWER RESISTORS
.7 Ω 1 Ω 2.2 Ω
2.5 GN 2.5 RT/GN 2.5 RT/GN X607
K450
PARK VENTILATION RELAY
87a 87 86 30 85
2 2.5 GN
4 .5 SW/WS/GE X607
X10103
X18165
.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
12 .5 GN/BR
11 .5 SW/WS/GE X35
9 X18156
20 X18155
A67y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
14 X1071
N4
ON-BOARD COMPUTER
3) VENTILATION
31
1 X816
M30
BLOWER MOTOR
1 X817
GROUND DISTRIBUTION
0670.4
X10012
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW X999
R11
BLOWER RESISTORS
.7 Ω 1 Ω 2.2 Ω

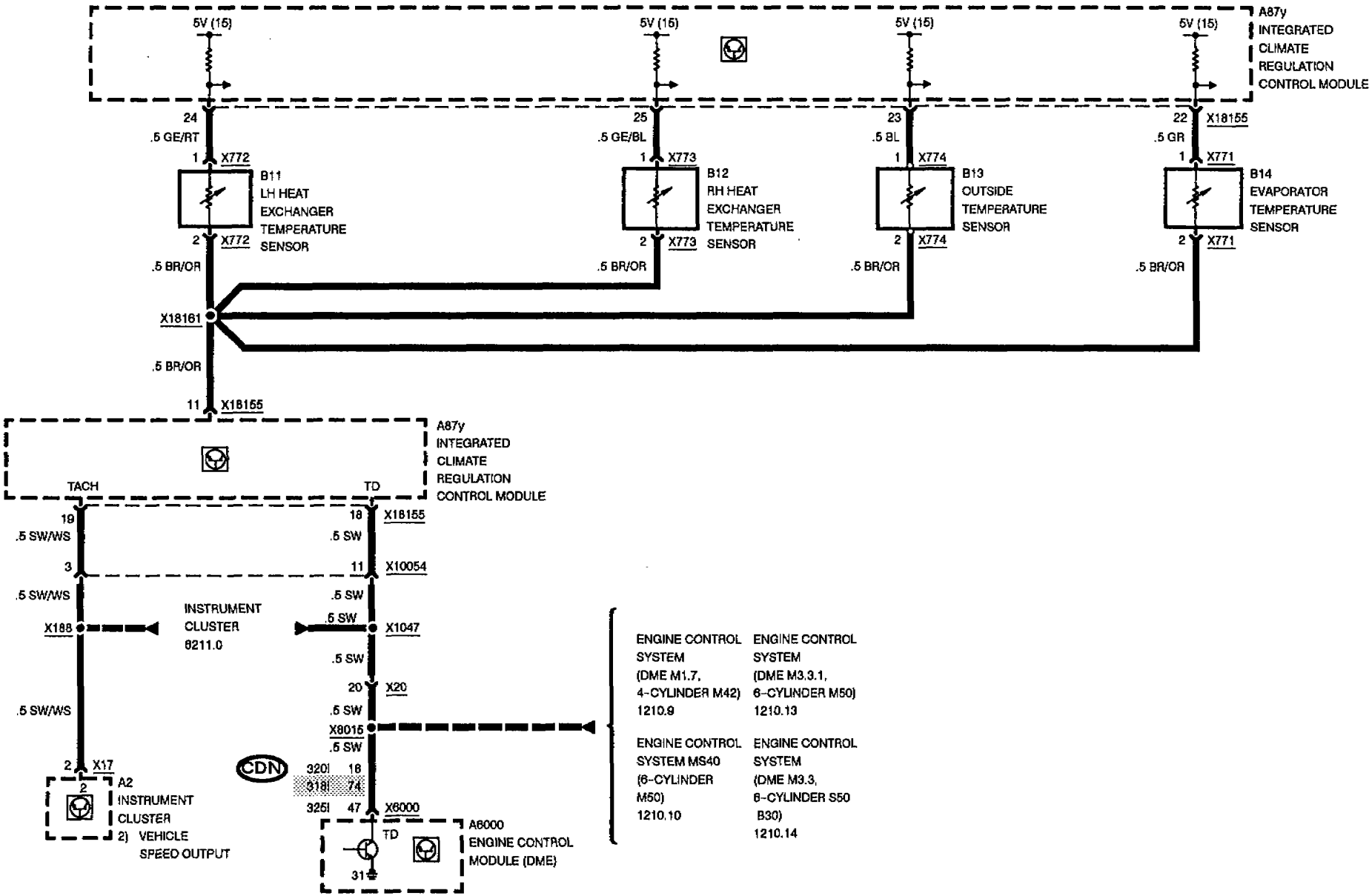
INTEGRATED CLIMATE REGULATION (IHKR E36)

CONTROL MODULE, WATER VALVES



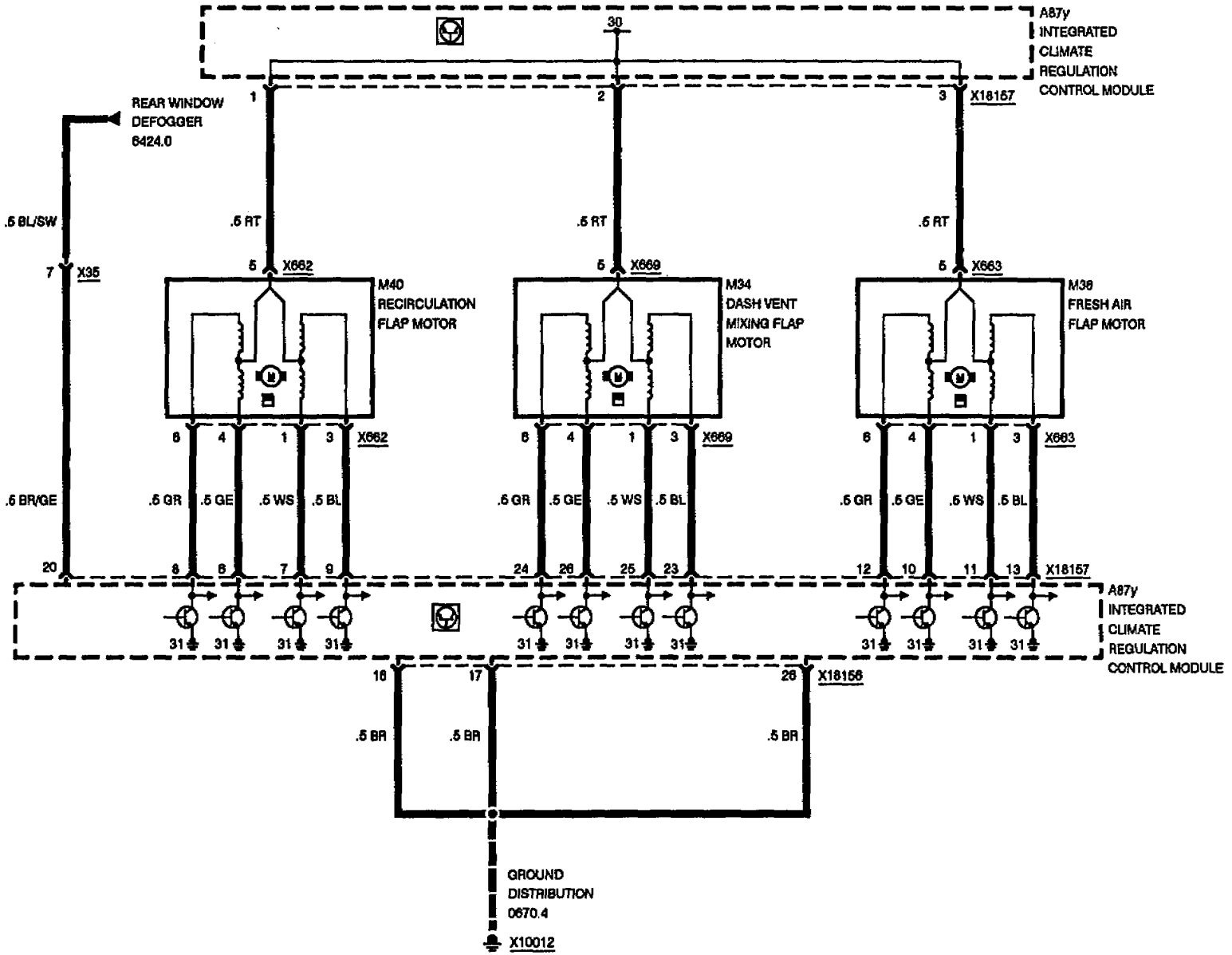
INTEGRATED CLIMATE REGULATION (IHKR E36)

TEMPERATURE CONTROL



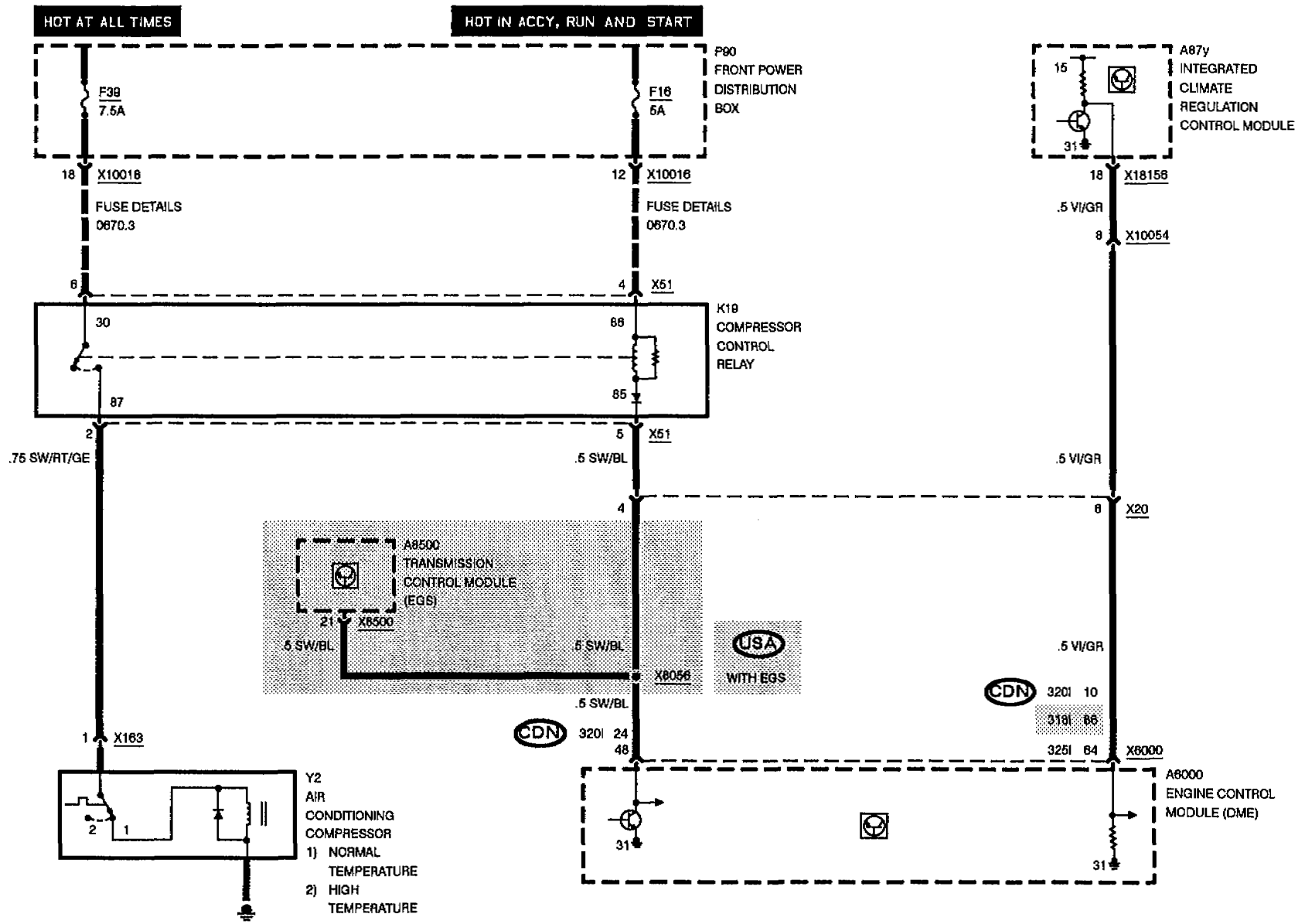
INTEGRATED CLIMATE REGULATION (IHKR E36)

AIR DELIVERY



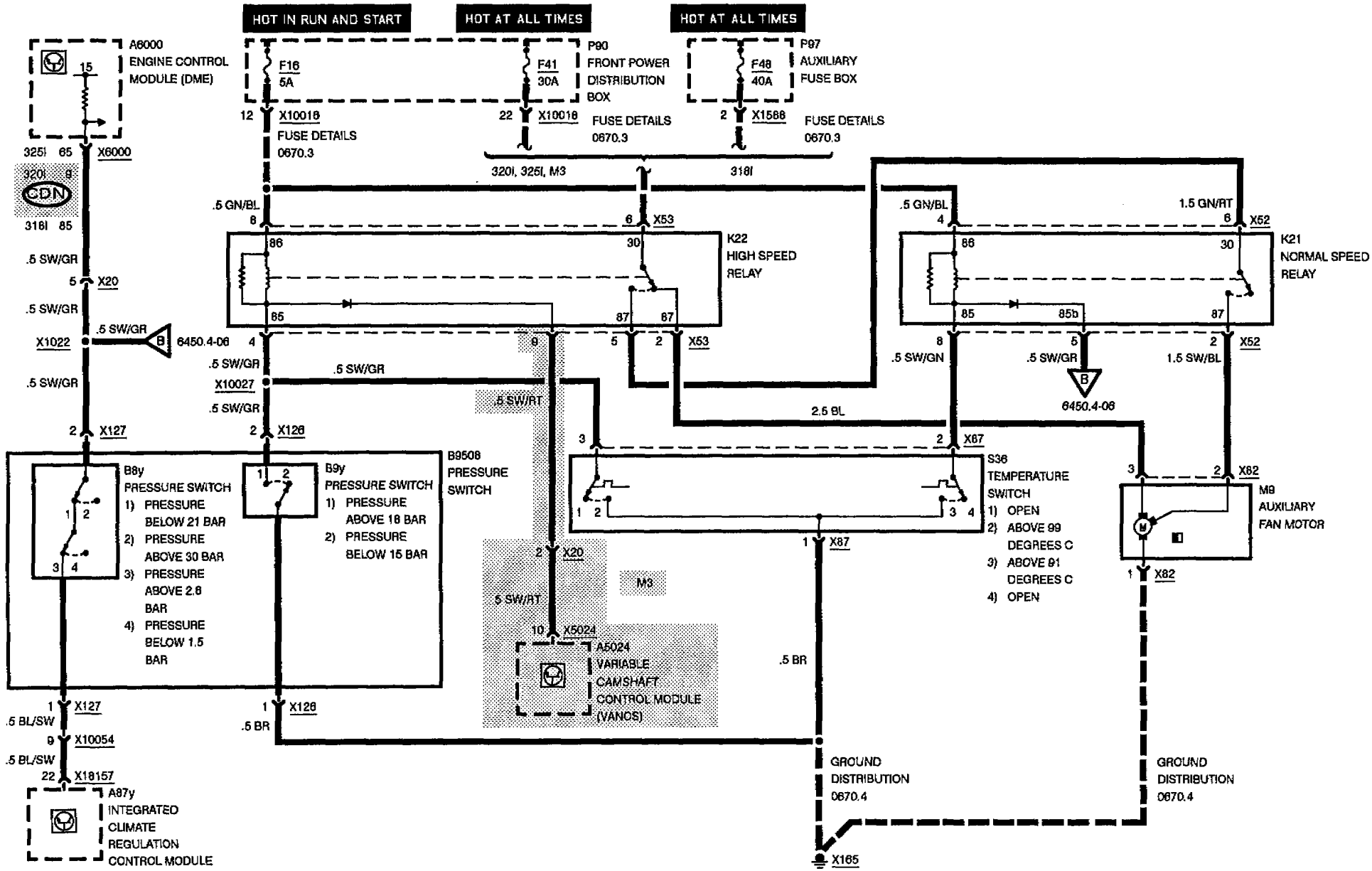
INTEGRATED CLIMATE REGULATION (IHKR E36)

COMPRESSOR CONTROLS

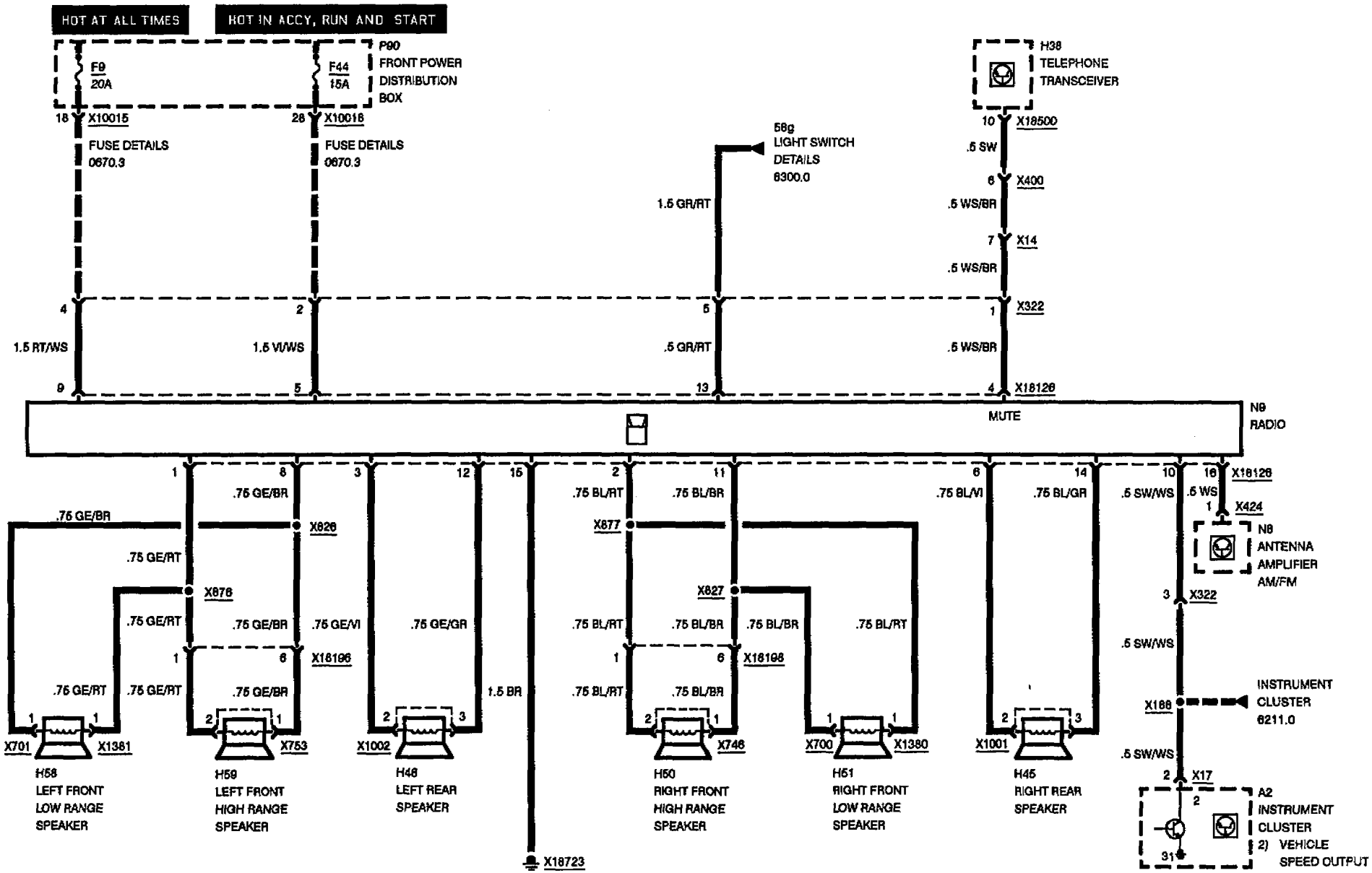


INTEGRATED CLIMATE REGULATION (IHKR E36)

AUXILIARY FAN

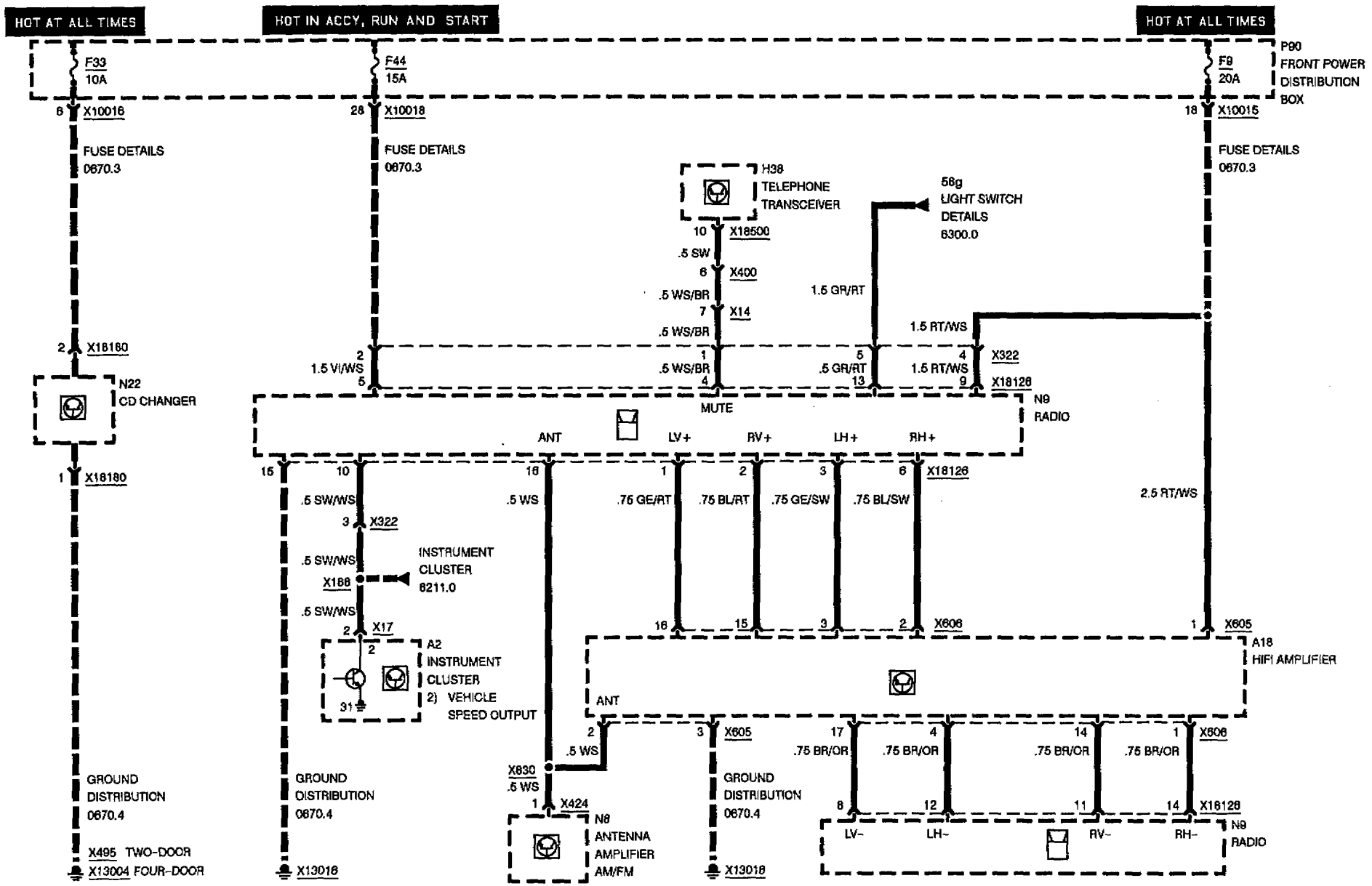


STEREO, 6-SPEAKER SYSTEM



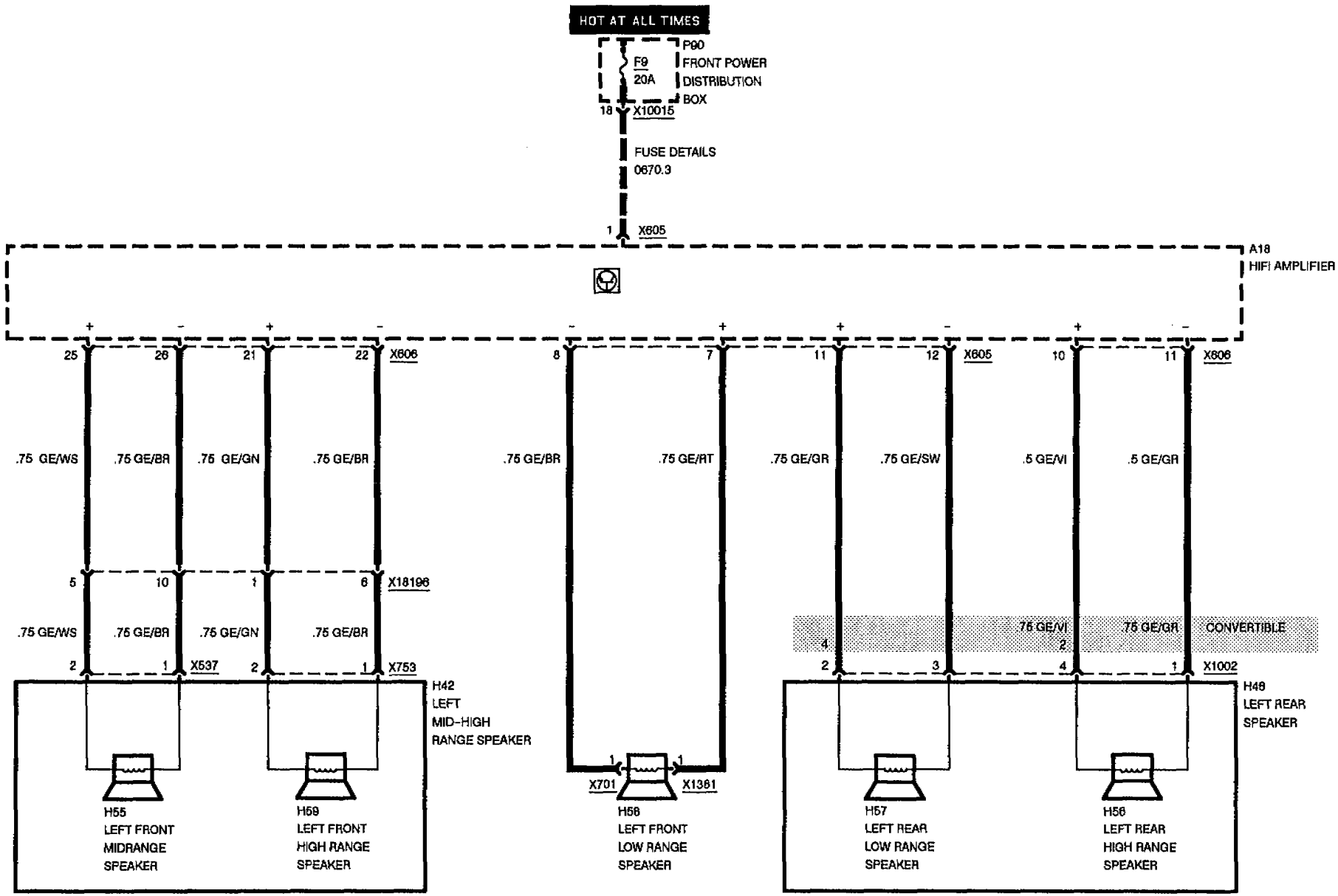
RADIO/HIFI

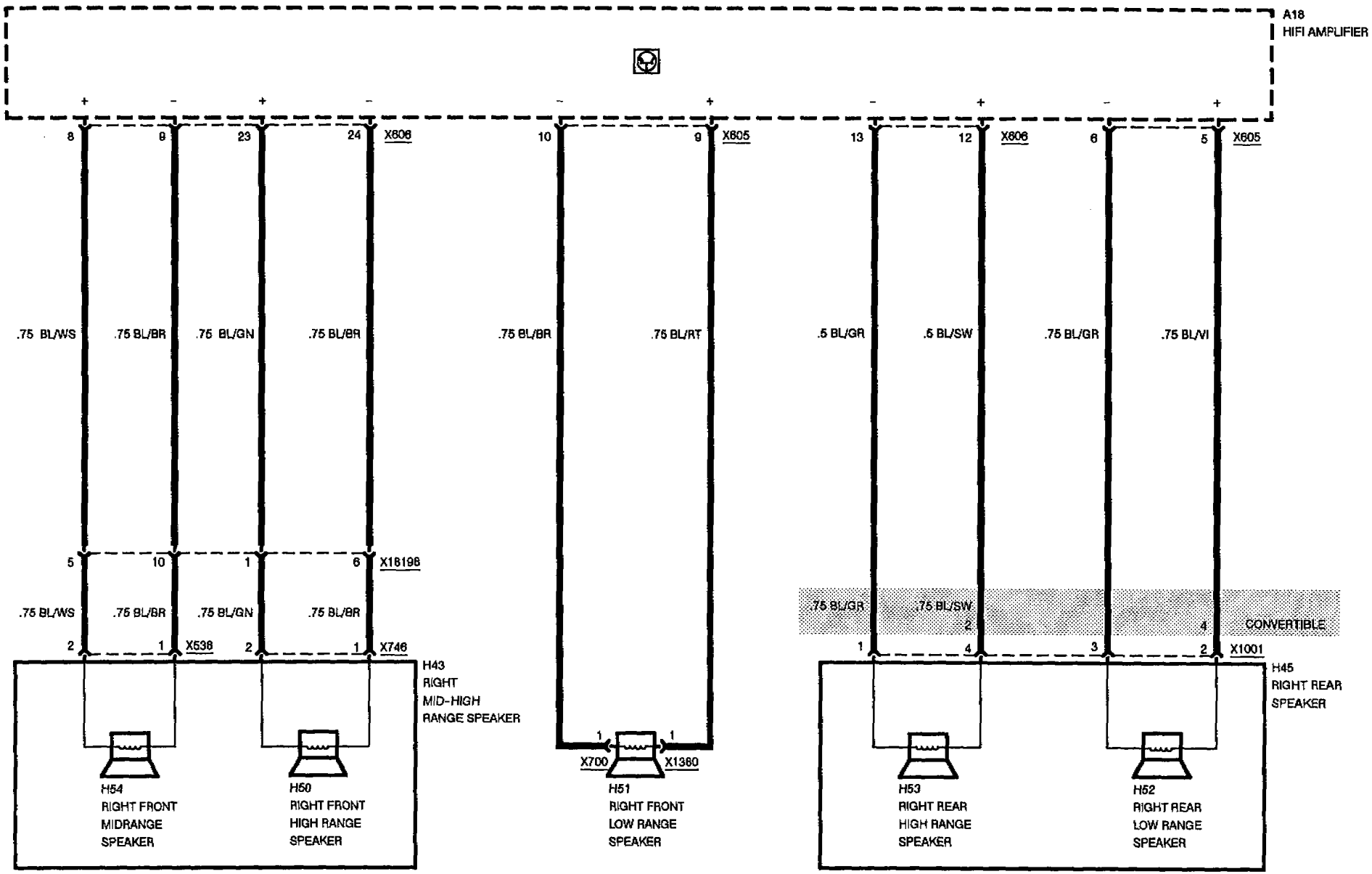
HIFI, 10-SPEAKER SYSTEM



RADIO/HIFI

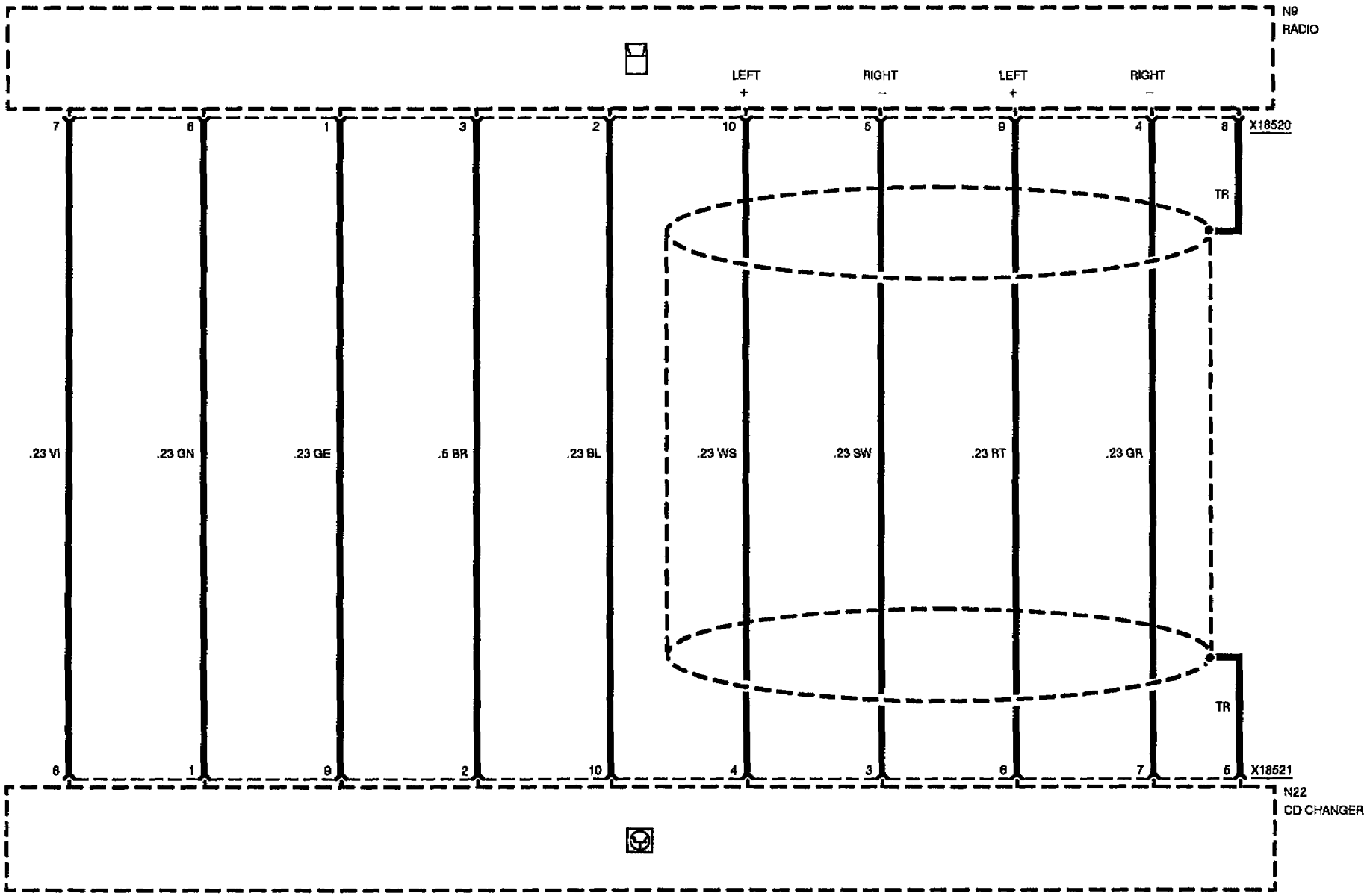
HIFI, 10-SPEAKER SYSTEM




A18
HIFI AMPLIFIER
+ - + - - + - + - +
8 9 23 24 X606
10 9 X605
13 12 X606 6 5 X605
.75 BL/WS
.75 BL/BR
.75 BL/GN
.75 BL/BR
.75 BL/BR
.75 BL/RT
.5 BL/GR
.5 BL/SW
.75 BL/GR
.75 BL/VI
5 10 1 6 X18196
.75 BL/WS
.75 BL/BR
.75 BL/GN
.75 BL/BR
.75 BL/GR
.75 BL/SW
2
4
CONVERTIBLE
2 1 X536 2 1 X746
1 4 3 2 X1001
H43
RIGHT
MID-HIGH
RANGE SPEAKER
H45
RIGHT REAR
SPEAKER
1 1
X700 X1360
H54
RIGHT FRONT
MIDRANGE
SPEAKER
H50
RIGHT FRONT
HIGH RANGE
SPEAKER
H51
RIGHT FRONT
LOW RANGE
SPEAKER
H53
RIGHT REAR
HIGH RANGE
SPEAKER
H52
RIGHT REAR
LOW RANGE
SPEAKER

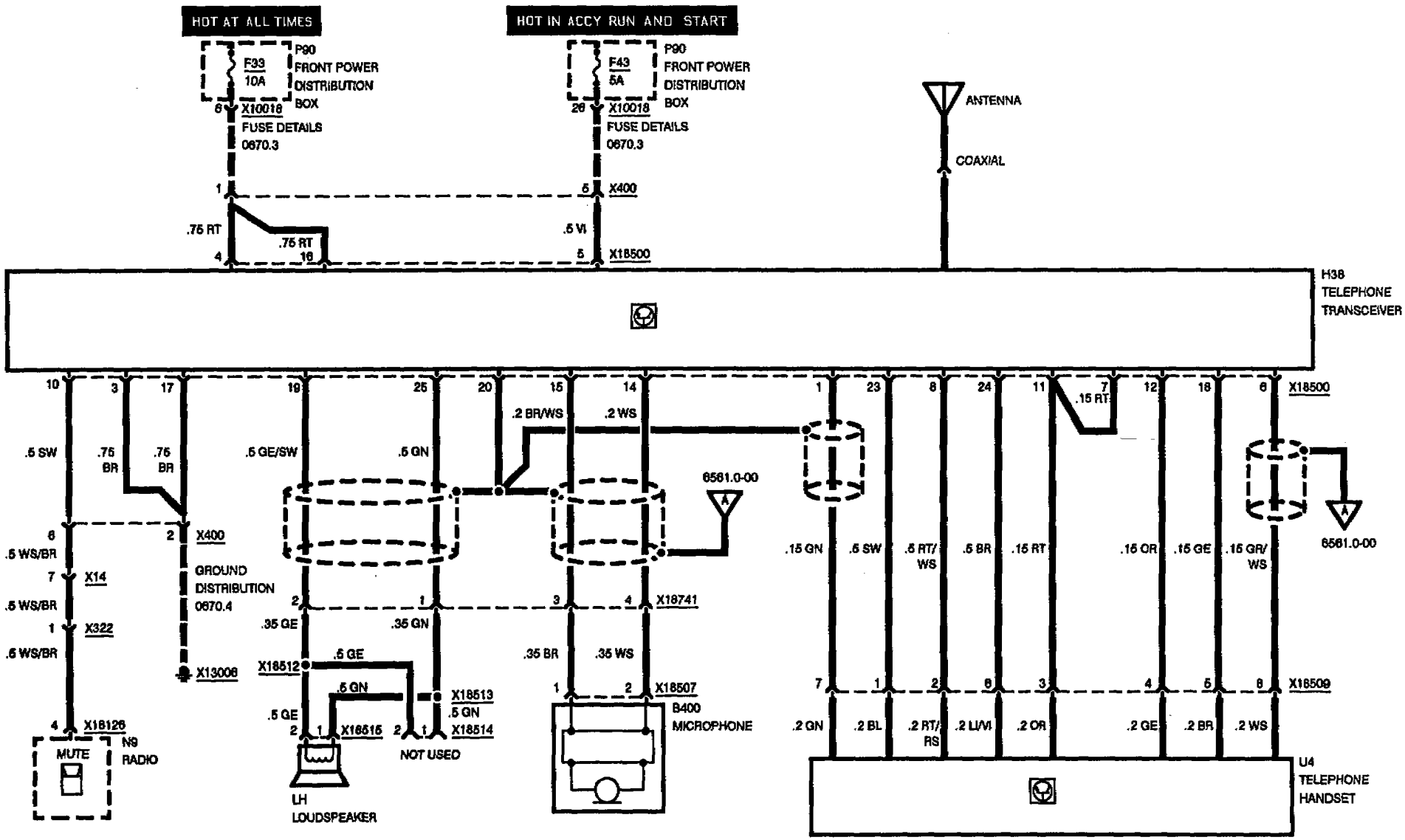
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

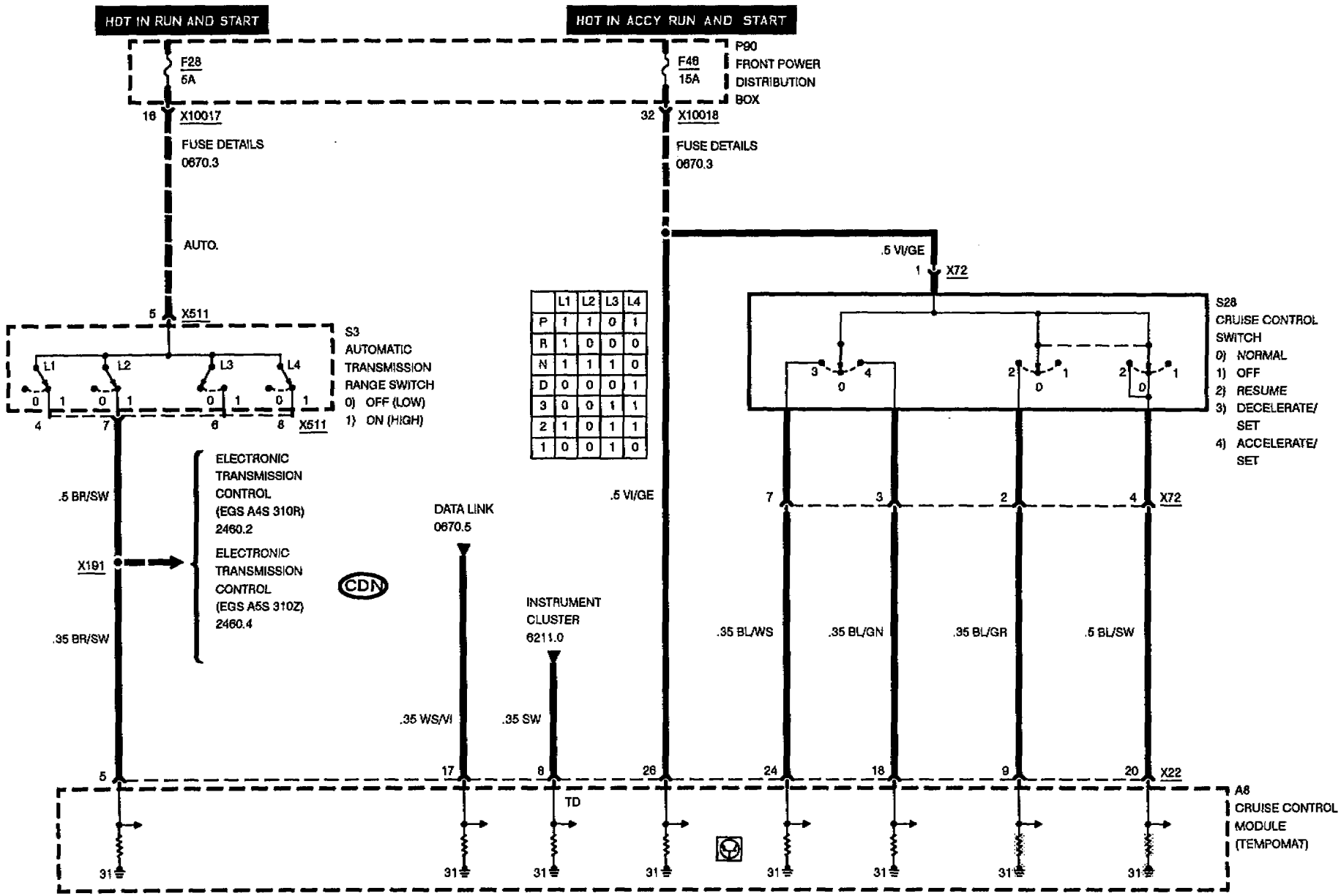


CELLULAR TELEPHONE (PROVISIONS)

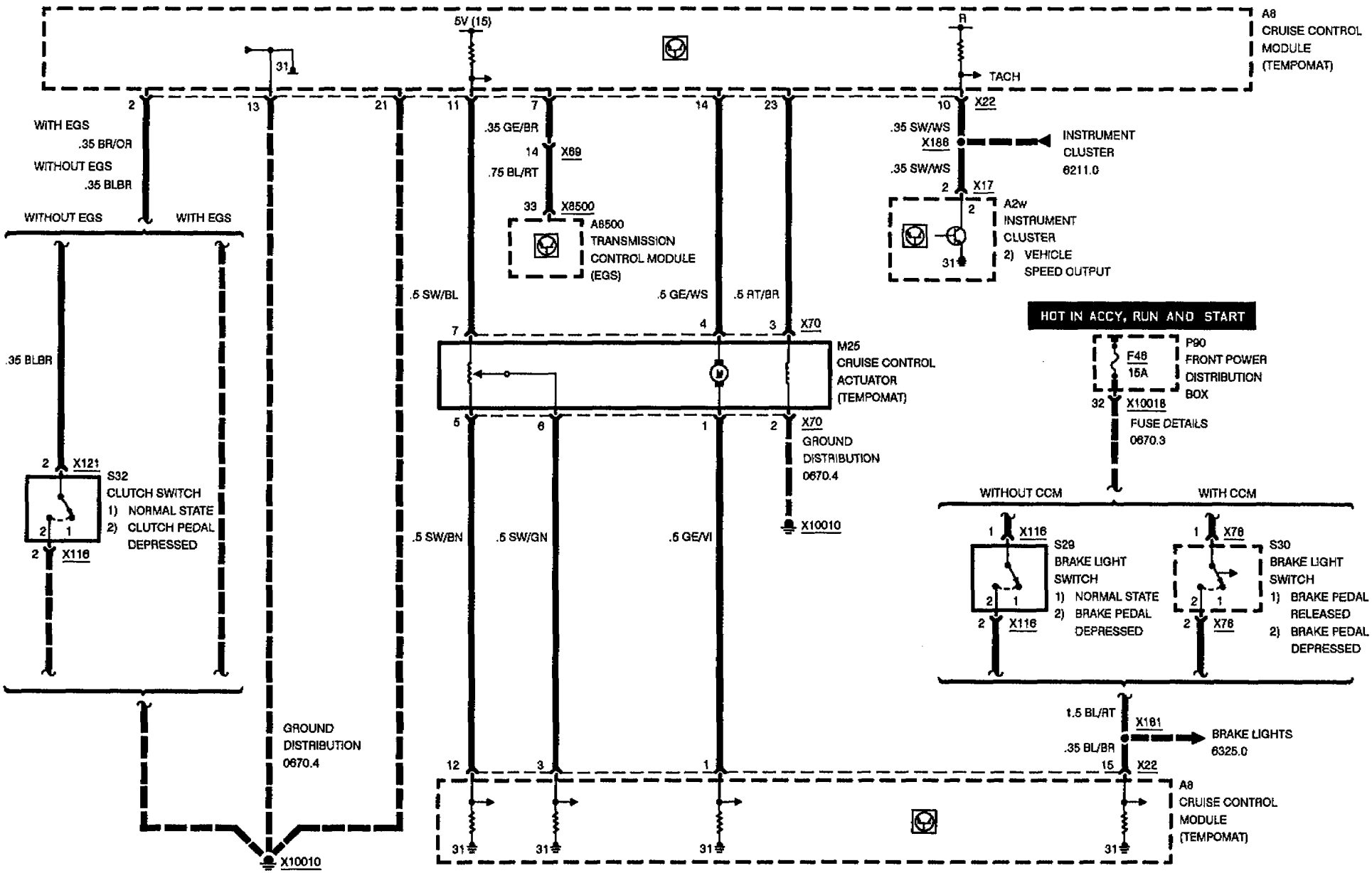
AMPS SYSTEM



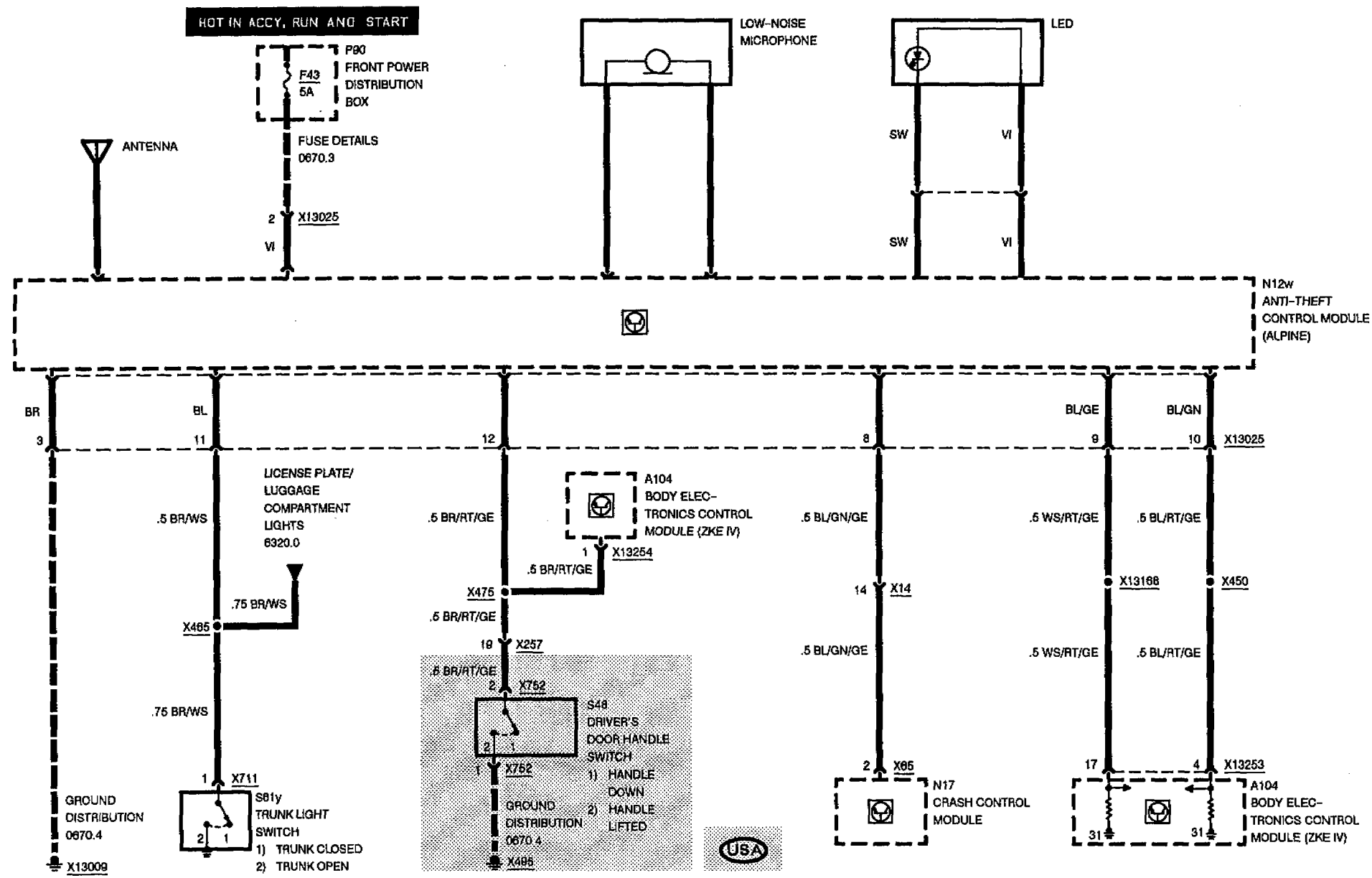
CRUISE CONTROL (TEMPOMAT)



CRUISE CONTROL (TEMPOMAT)

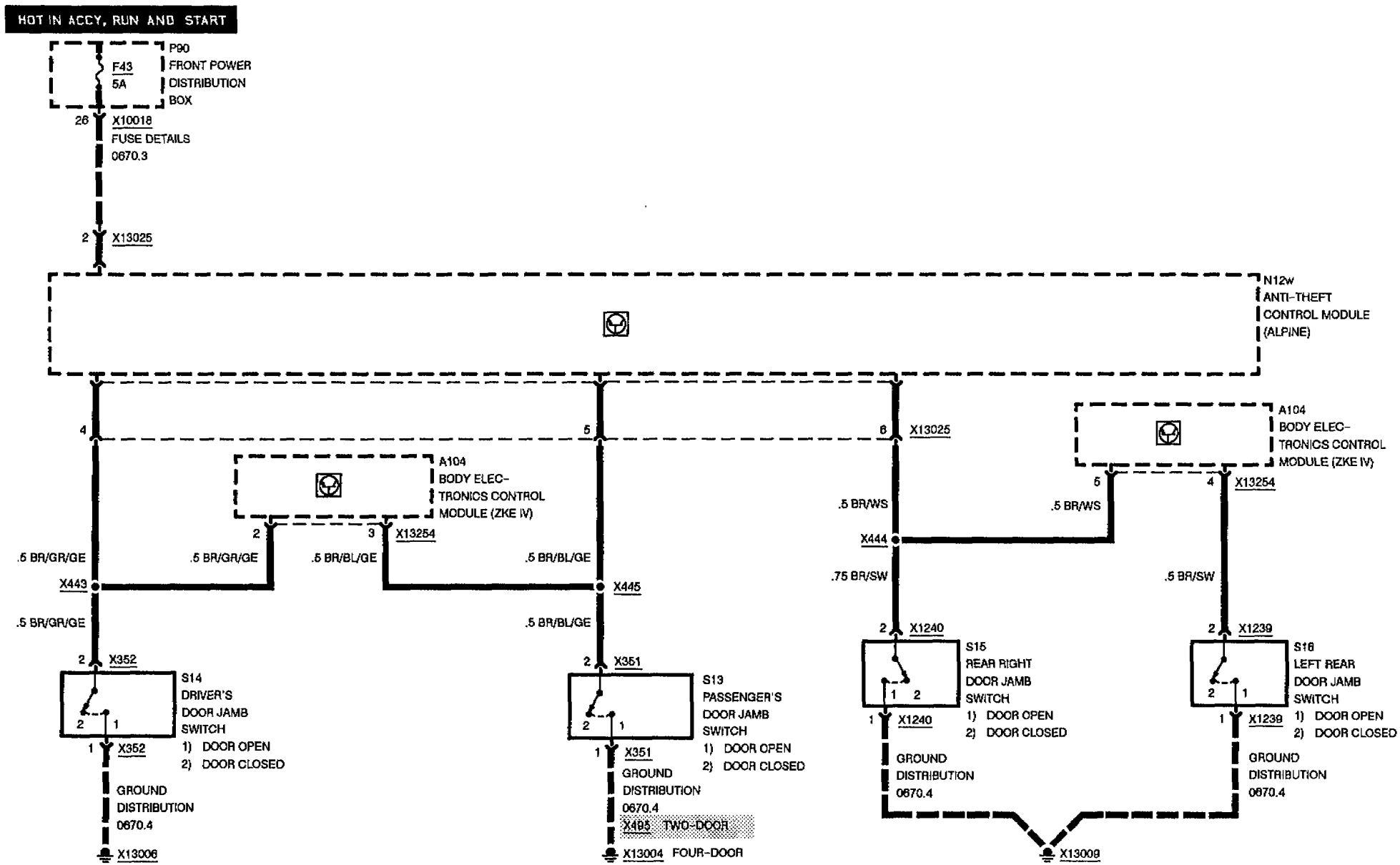


ANTI-THEFT SYSTEM (ALPINE)

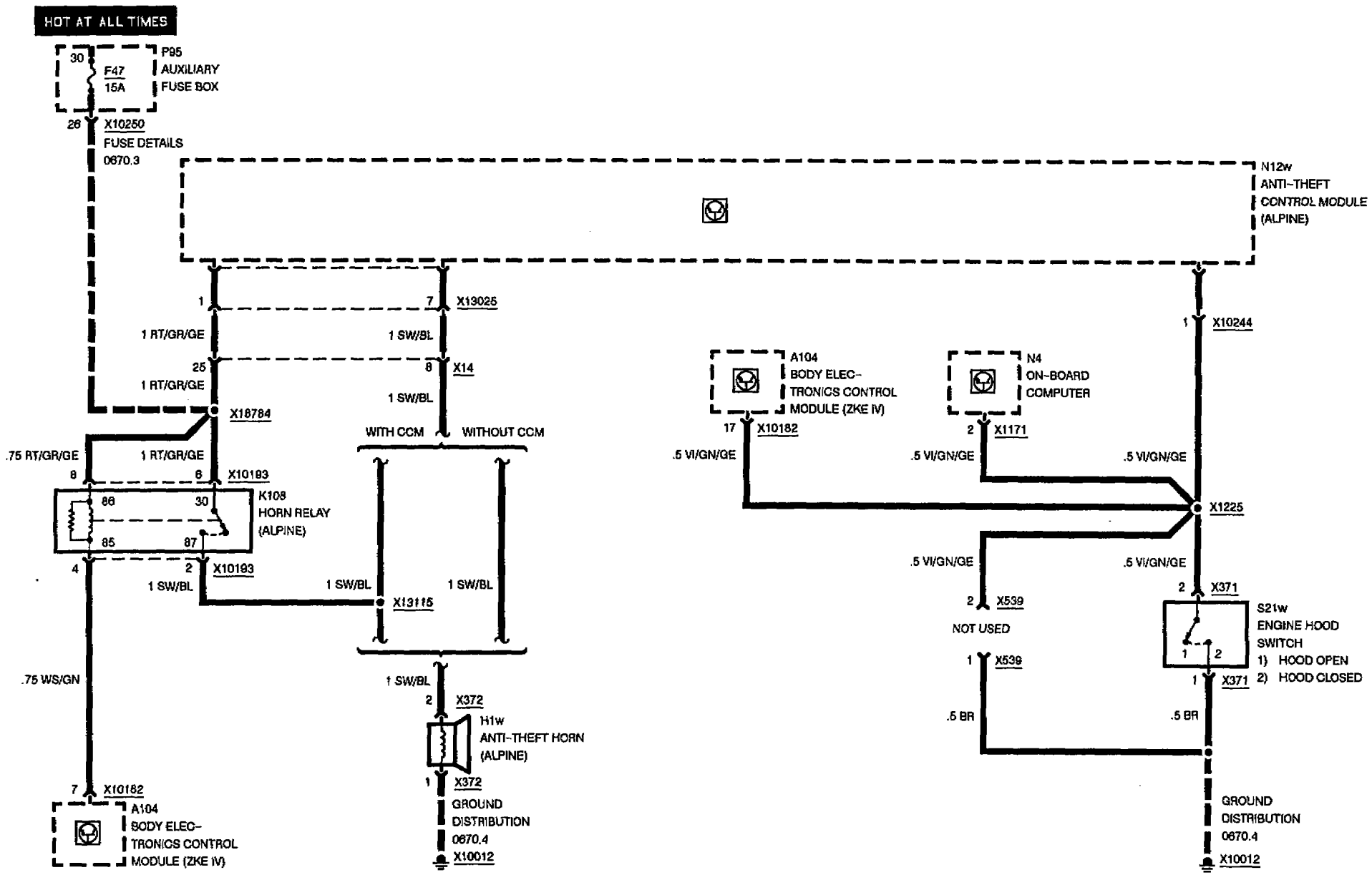


ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

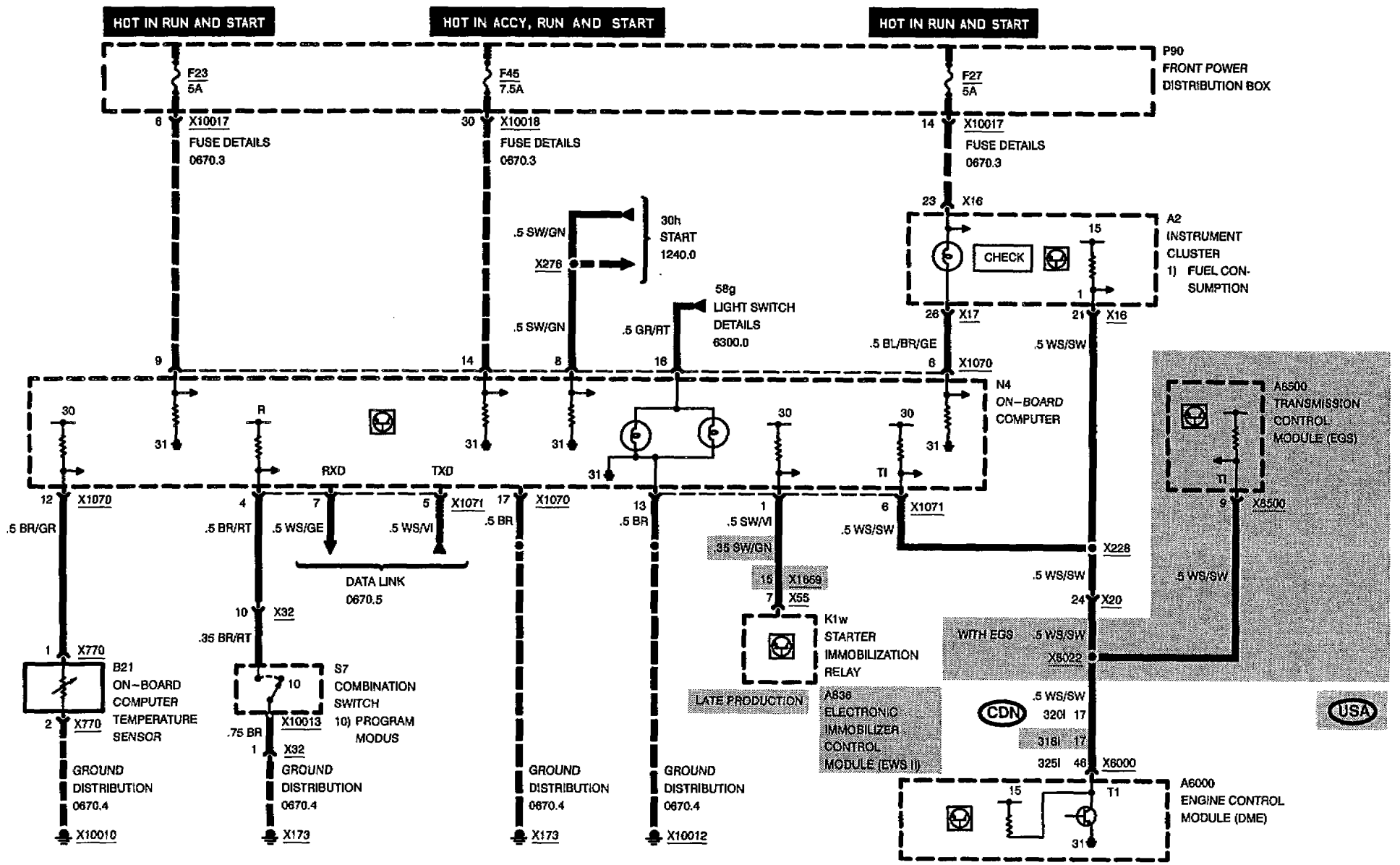


ANTI-THEFT SYSTEM (ALPINE)



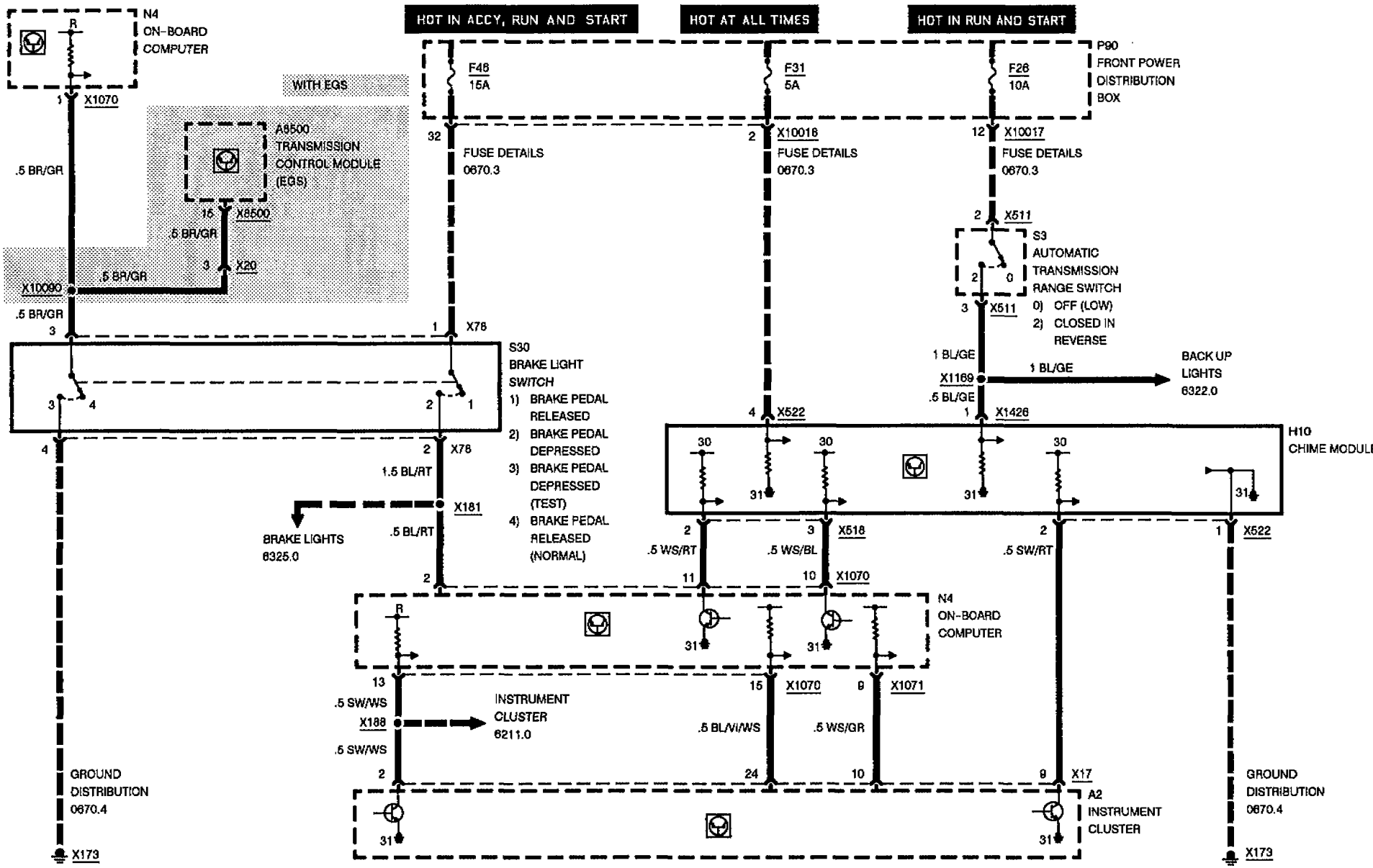
ON-BOARD COMPUTER (BC V)

POWER



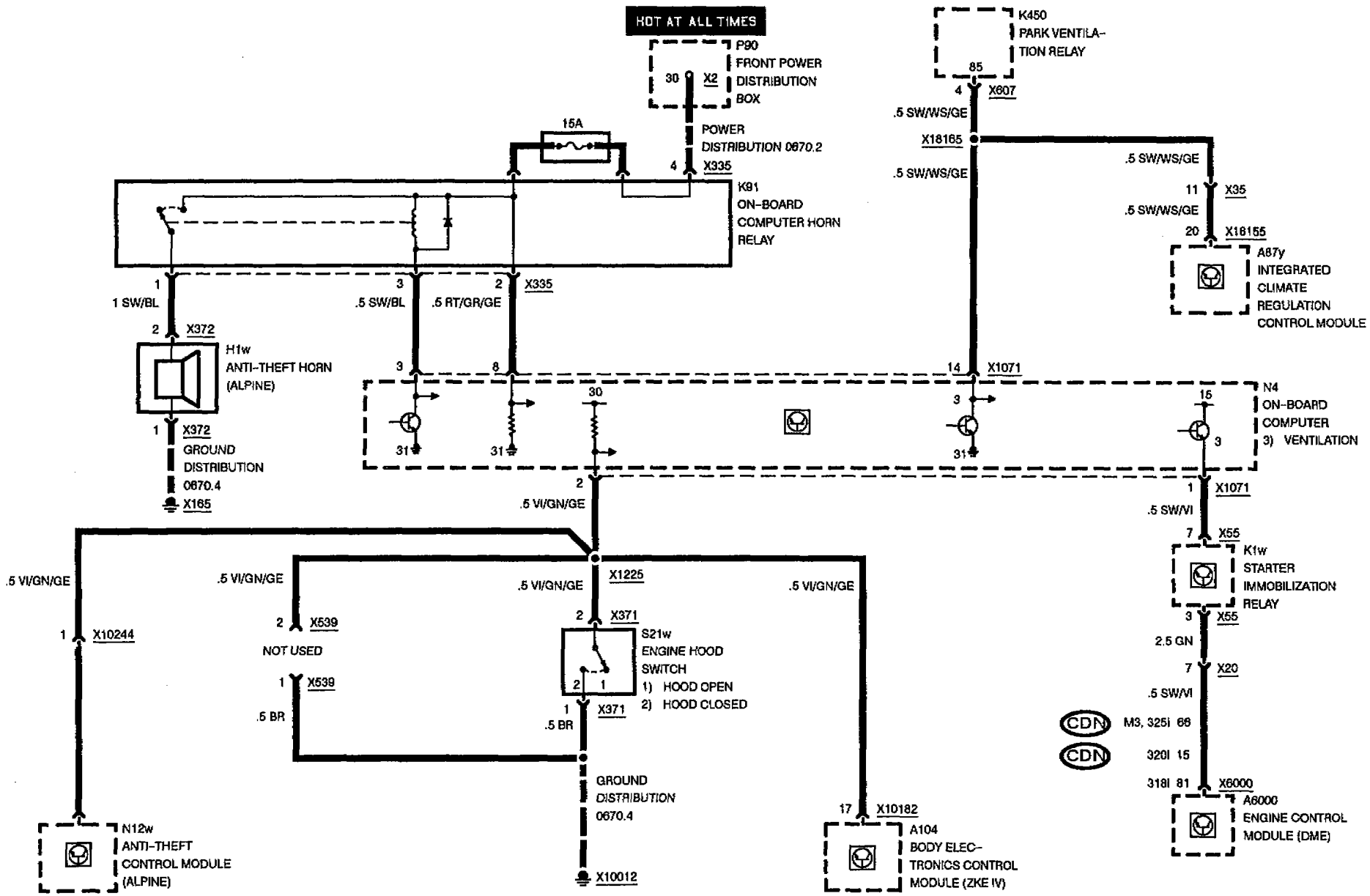
ON-BOARD COMPUTER (BC V)

CHIME, BRAKE LIGHT SWITCH



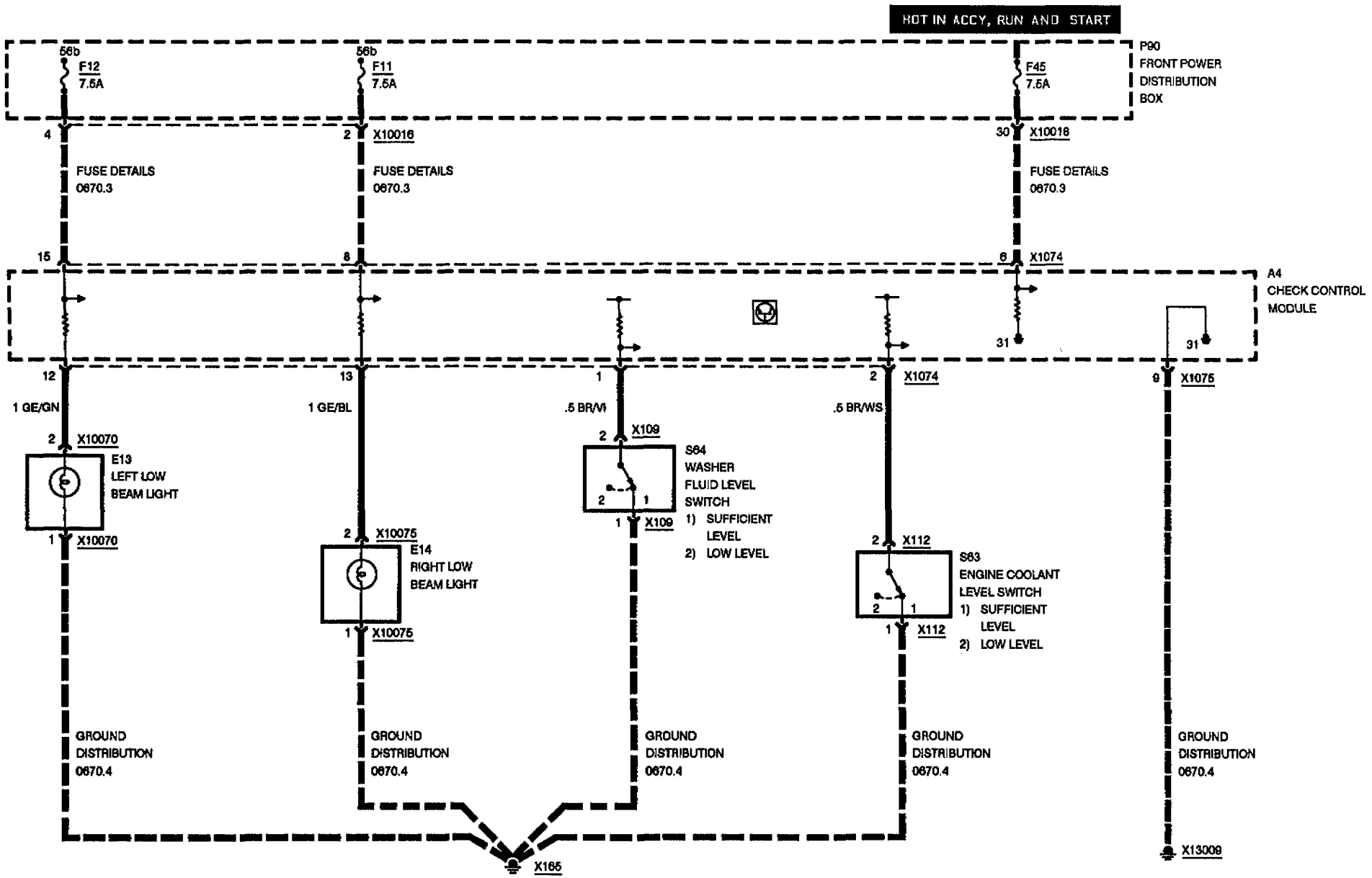
ON-BOARD COMPUTER (BC V)

DRIVE AWAY PROTECTION



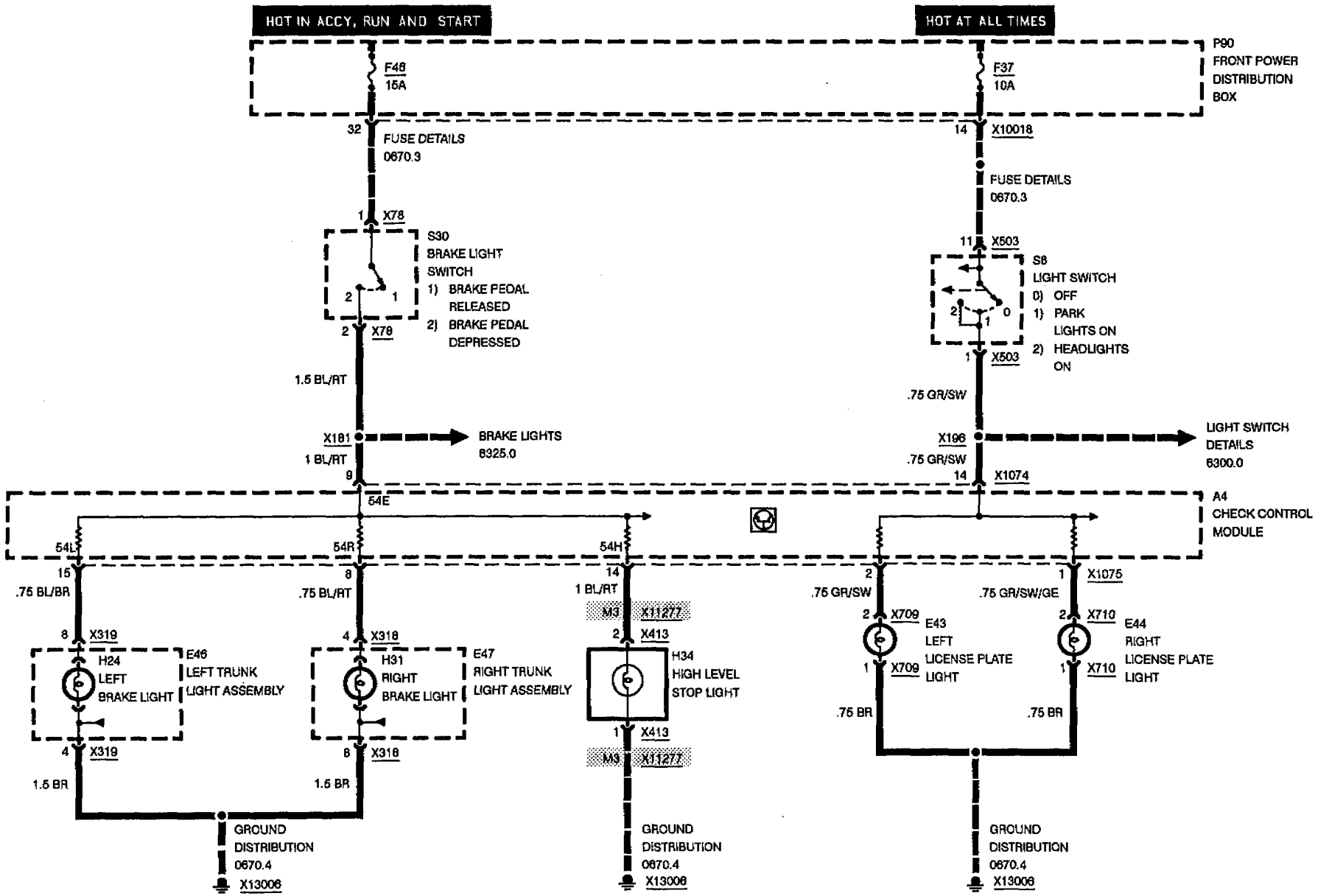
ON-BOARD COMPUTER (BC V)

CHECK CONTROL



ON-BOARD COMPUTER (BC V)

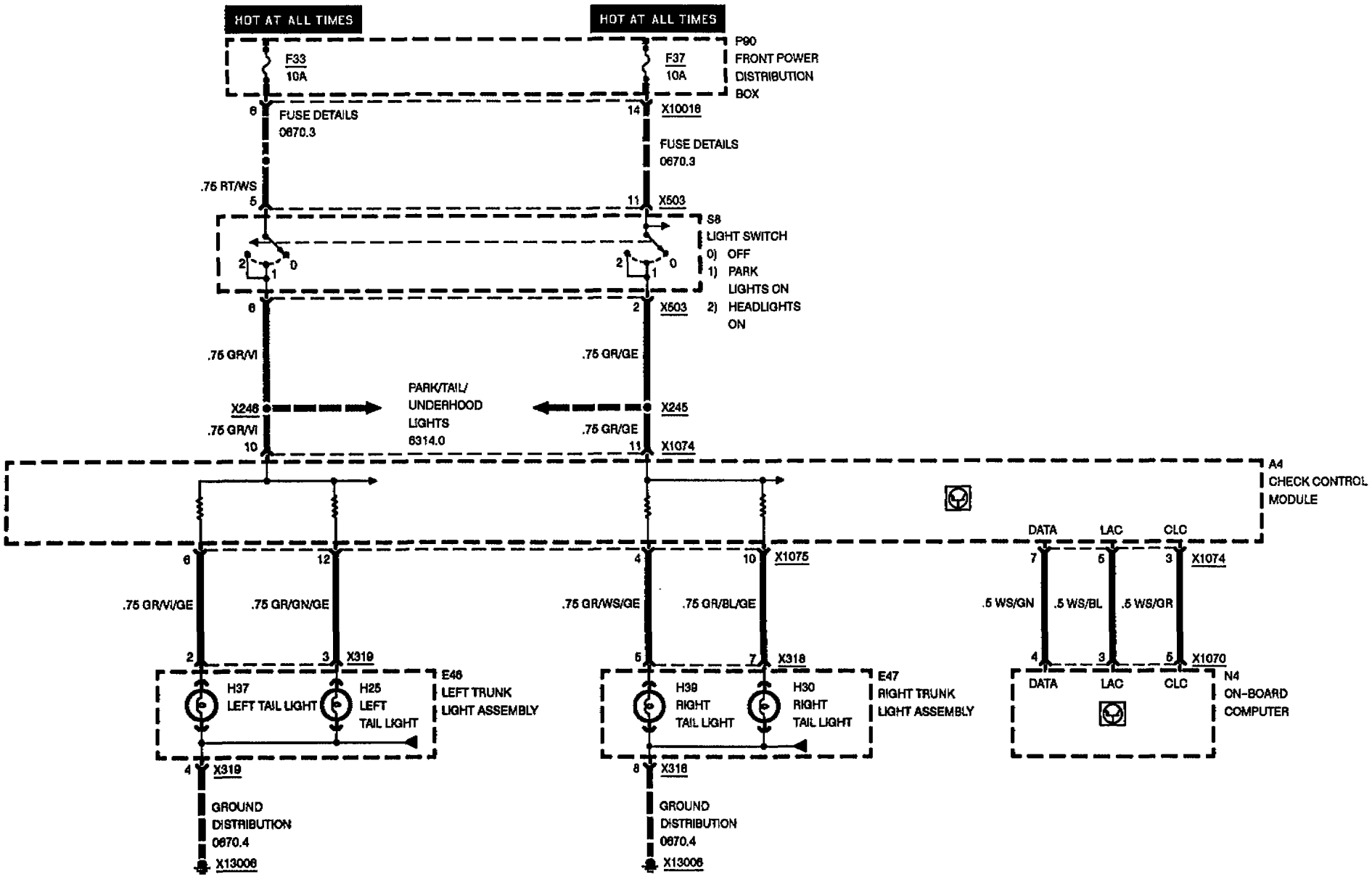
CHECK CONTROL



BMW 3

ON-BOARD COMPUTER (BC V)

CHECK CONTROL



COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
A2	INSTRUMENT CLUSTER	LH side of dash	28-3	
A4	CHECK CONTROL MODULE	Below LH side of dash	00-3	
A5	RELAY MODULE	Behind glove box		
A7	SLIP CONTROL MODULE (ABS)	RH side of dash behind glove box	01-2	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	RH side of dash behind glove box	01-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	Below rear seat	00-2	
A18	HIFI AMPLIFIER	Below RH side of rear seat Convertible	02-3	
A18	HIFI AMPLIFIER	In LH side of luggage compartment	04-1	
A35	ON-BOARD DISPLAY	Center of dash center console		
A51	WIPER/WASHER MODULE	Behind glove box (glove box removed)	01-1	
A52	SLIP CONTROL MODULE (ABS/ASC)	Behind glove box (glove box removed)	01-3	
A56	SUNROOF CONTROL ASSEMBLY	Under roof center panel	04-2	
A64	WIPER/WASHER MODULE (LOW II)	Behind glove box (glove box removed)		
A87y	INTEGRATED CLIMATE REGULATION CONTROL MODULE	Center console	03-2	
A96	CONVERTIBLE TOP CONTROL MODULE	In lower LH C-pillar behind side panel	02-1	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	Behind glove box (glove box removed)	01-1	
A113	SEAT OCCUPANCY DETECTOR	Under RH front seat		
A117	TELEPHONE EJECT BOX	Center console		

COMPONENT LOCATION CHART

COMPONENT

			PAGE – FIGURE 7100.0	8500.0
A5024	VARIABLE CAMSHAFT CONTROL MODULE (VANOS)	Rear RH side of engine compartment	04–3	
A6000	ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment	00–1	
A7000	TRANSMISSION CONTROL MODULE (EGS)	Rear RH side of engine compartment	00–1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	Rear RH side of engine compartment	00–1	
B1	RIGHT FRONT SPEED SENSOR – ABS	On RH front wheel, above brake caliper	08–3	
B2	LEFT FRONT SPEED SENSOR – ABS	On LH front wheel, above brake caliper	08–3	
B3	RIGHT REAR SPEED SENSOR – ABS	On RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR – ABS	On LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	Below LH side of rear seat	21–2	
B10	VEHICLE SPEED SENSOR	Under rear of car	08–1	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	Center console		
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	Center console		
B13	OUTSIDE TEMPERATURE SENSOR	Rear of engine compartment behind RH fresh air cowl	15–2	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell LH side of IHKR Plenum	28–1	
B16	LEFT FRONT BRAKE PAD SENSOR	On LH front wheel, above brake caliper	08–3	
B17	RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	Rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir (325i)	18–3	
B21	ON-BOARD COMPUTER TEMPERATURE SENSOR	Front RH side of engine compartment	20–1	
B25y	FUEL TANK SENSOR II	Top of fuel tank		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
B400	MICROPHONE	Center of dash		
B5022	VARIABLE CAMSHAFT CONTROL SENSOR 1	Front of engine compartment (M3)	12-2	
B5023	VARIABLE CAMSHAFT CONTROL SENSOR 2	RH front of engine (M3)	12-1	
B5028	HEATED OXYGEN SENSOR 2	Front of engine compartment		
B6200	HEATED OXYGEN SENSOR	Under center of car	15-3	
B6203	CRANKSHAFT POSITION/RPM SENSOR	Under RH front of car rear of radiator	10-3	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine below intake manifold rear of radiator (325i)	11-1	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine (M3)	11-2	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine (M3)		
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine (near oil level stick)	13-3	
B6208	CAMSHAFT ACTUATOR	Front of engine		
B6209	HALL EFFECT CAMSHAFT SENSOR	Front of engine		
B6217	HOT FILM AIR MASS METER	Top front of engine		
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (325i)	11-1	
B6231	OIL PRESSURE SWITCH	LH side of engine (near oil level stick) (M3)	14-2	
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (318i)	17-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325i)	11-3	

COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0 8500.0
B6232 .	ENGINE COOLANT TEMPERATURE SENSOR ..... RH front of engine (M3)	12-1
B6232 .	ENGINE COOLANT TEMPERATURE SENSOR ..... RH front of engine below intake manifold (318i)	17-2
B6233 .	VOLUME AIR FLOW SENSOR ..... LH side of engine compartment right of LH side shock tower	
B6236 .	ENGINE COOLANT TEMPERATURE SENSOR ..... RH front of engine below intake manifold (325i)	11-1
B6236 .	ENGINE COOLANT TEMPERATURE SENSOR ..... RH front of engine (M3)	12-1
B6236 .	ENGINE COOLANT TEMPERATURE SENSOR ..... RH front of engine below intake manifold (318i)	17-2
B6238 .	OIL TEMPERATURE SENSOR ..... LH side of engine (M3)	14-2
B6241 .	CYL. 1-2 KNOCK SENSOR ..... Top front of engine	
B6241w	CYL. 1-3 KNOCK SENSOR ..... Top front of engine	
B6242 .	CYL. 3-4 KNOCK SENSOR ..... Top front of engine	14-3
B6242w	CYL. 4-6 KNOCK SENSOR ..... Top front of engine	
B6243 .	CYL. 5-6 KNOCK SENSOR ..... Top front of engine (M3)	
B9508 .	PRESSURE SWITCH ..... Front RH side of engine compartment near RH headlight assembly	09-3
C101 ..	CONTACT RING ..... Top of steering column	24-2
C900 ..	SUPPRESSION FILTER ..... In upper RH C-pillar	33-2
D100 ..	DATA LINK CONNECTOR ..... Rear RH side of engine compartment	05-1
E9	REAR DEFOGGER I ..... In upper RH C-pillar	33-2
E10 ...	REAR DEFOGGER/ANTENNA ..... In rear window	
E11 ...	LEFT HIGH BEAM LIGHT ..... Near LH headlight assembly	
E12 ...	RIGHT HIGH BEAM LIGHT ..... Near RH headlight assembly	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
E13	LEFT LOW BEAM LIGHT	Near LH headlight assembly		
E14	RIGHT LOW BEAM LIGHT	Near RH headlight assembly		
E15	LEFT PARK LIGHT	Front of vehicle		
E19	RIGHT PARK LIGHT	Front of vehicle		
E20	UNDERHOOD LIGHT	On underside of engine hood		
E25	FRONT ASHTRAY LIGHT	Center console		31-2
E26	LEFT FOG LIGHT	Under LH front bumper		08-2
E27	RIGHT FOG LIGHT	Under RH front bumper		08-2
E28	FRONT CIGAR LIGHTER	Near gearshift lever		
E28y	REAR ASHTRAY LIGHT	Below center console		31-2
E28y	REAR ASHTRAY LIGHT	Behind center console		
E29	FRONT CIGAR LIGHTER LIGHT	Center console		
E32	TRUNK COMPARTMENT LIGHT	In luggage compartment		
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	Under roof center panel		04-2
E35	DRIVER'S MAKEUP MIRROR LIGHT	Center of windshield header		
E36	PASSENGER'S MAKEUP MIRROR LIGHT	Center of windshield header		23-1
E39	LEFT REAR INTERIOR LIGHT	In upper LH C-pillar		33-1
E40	RIGHT REAR INTERIOR LIGHT	In upper RH C-pillar		33-2
E42	GLOVE BOX LIGHT	LH side of glove box		25-1
E43	LEFT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate		09-1

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
E44	RIGHT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	09-1
E45y	CASSETTE BOX LIGHT	Center of dash	
E46	LEFT TRUNK LIGHT ASSEMBLY	In LH rear side of luggage compartment	
E47	RIGHT TRUNK LIGHT ASSEMBLY	In RH rear side of luggage compartment	03-3
E56	DRIVER'S SEATBACK HEATER	In upper LH front seatback	23-3
E57	DRIVER'S SEAT HEATER	Under LH front seat	23-3
E58	PASSENGER'S SEAT HEATER	Underside of RH front seat	
E59	PASSENGER'S SEATBACK HEATER	In upper RH front seatback	
E82	TRANSMISSION POSITION INDICATOR LIGHT	Center console	
E99	HARD TOP CONNECTOR 1	In convertible top compartment	
E100y	HARD TOP CONNECTOR 2	In convertible top compartment	
E101	LEFT TRUNK COMPARTMENT LIGHT	In LH rear side of luggage compartment Convertible	
E102	RIGHT TRUNK COMPARTMENT LIGHT	In RH rear side of luggage compartment Convertible	
E104	THROTTLE FLAP HEATER	LH side of engine compartment	
G1	BATTERY	Rear RH side of engine compartment	
G5	DRIVER'S AIR BAG GAS GENERATOR	Behind steering wheel	24-2
G6	PASSENGER'S AIR BAG GAS GENERATOR I	RH side of dash	27-2
G6430	B+ JUMP START JUNCTION POINT	Rear RH side of engine compartment back of RH side shock tower	05-1
G6509	GENERATOR	Front LH side of engine compartment	05-2
H1w	ANTI-THEFT HORN (ALPINE)	Front RH side of engine compartment	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
H2	LEFT HORN	Front of engine compartment	
H3	RIGHT HORN	Front of engine compartment	
H4	RIGHT FRONT TURN LIGHT	Front of vehicle	
H5	RIGHT REAR TURN LIGHT	RH side of body rear end	
H6	LEFT REAR TURN LIGHT	LH side of body rear end	
H7	LEFT FRONT TURN LIGHT	Front of vehicle	
H8	RIGHT FRONT AUXILIARY TURN LIGHT	Front of vehicle	
H9	LEFT FRONT AUXILIARY TURN LIGHT	Front of vehicle	
H10	CHIME MODULE	Below LH side of dash	
H24	LEFT BRAKE LIGHT	LH side of body rear end	
H25	LEFT TAIL LIGHT	LH side of body rear end	
H26	LEFT REAR FOG LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H27	LEFT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H28	RIGHT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY, E46	
H30	RIGHT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	
H31	RIGHT BRAKE LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	
H34	HIGH LEVEL STOP LIGHT	At back of rear window shelf	
H37	LEFT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY, E47	
H38	TELEPHONE TRANSCEIVER	Rear side of luggage compartment	
H41	LEFT FRONT SPEAKER	In lower LH A-pillar	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
H42	LEFT MID-HIGH RANGE SPEAKER	In upper LH front door		
H43	RIGHT MID-HIGH RANGE SPEAKER	In upper RH front door		
H45	RIGHT REAR SPEAKER	Under rear window shelf		
H46	LEFT REAR SPEAKER	Under rear window shelf		
H50	RIGHT FRONT HIGH RANGE SPEAKER	In upper RH front door		
H51	RIGHT FRONT LOW RANGE SPEAKER	In lower RH A-pillar		
H52	RIGHT REAR LOW RANGE SPEAKER	Under rear window shelf		
H53	RIGHT REAR HIGH RANGE SPEAKER	Under rear window shelf		
H54	RIGHT FRONT MIDRANGE SPEAKER	In upper RH front door		
H55	LEFT FRONT MIDRANGE SPEAKER	In upper LH front door		
H56	LEFT REAR HIGH RANGE SPEAKER	Under rear window shelf		
H57	LEFT REAR LOW RANGE SPEAKER	Under rear window shelf		
H58	LEFT FRONT LOW RANGE SPEAKER	In lower LH A-pillar		
H59	LEFT FRONT HIGH RANGE SPEAKER	In upper LH front door		
K1	STARTER RELAY	Behind LH footwell speaker grille	25-3	
K2	HORN RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2	
K4	BLOWER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2	
K9	UNLOADER RELAY, TERMINAL 15	Behind LH footwell speaker grille	25-3	
K10	ABS RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1	
K11	WIPER RELAY	Behind LH footwell speaker grille	25-3	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
K13	REAR DEFOGGER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1	
K16	HAZARD FLASHER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2	
K19	COMPRESSOR CONTROL RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1	
K21	NORMAL SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	19-3	
K22	HIGH SPEED RELAY	Rear LH side of engine compartment in Power Distribution Box	19-3	
K46	HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2	
K47	FRONT FOG LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2	
K48	LOW BEAM LIGHT RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2	
K53	WIPER MOTOR RELAY	Behind LH footwell speaker grille	25-3	
K75	ABS PUMP MOTOR RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1	
K99	REAR WINDOW BLOWER RELAY	Behind glove box left	25-2	
K108	HORN RELAY (ALPINE)	Behind glove box left	01-2	
K114	COMFORT RELAY	Footwell, driver's side	27-1	
K117	TRUNK LID RELAY	Behind glove box right		
K450	PARK VENTILATION RELAY	Footwell, driver's side	02-2	
K5029	DOUBLE RELAY	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6300	ENGINE CONTROL MODULE RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1	
K6300	ENGINE CONTROL MODULE RELAY	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6301	CYL. 1-6 FUEL PUMP RELAY	Rear LH side of engine compartment in Power Distribution Box	19-1	
K6301w	FUEL PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
K6303	OXYGEN SENSOR RELAY	Power Distribution Box rear LH side of engine compartment		
K6307	FUEL PUMP/START IDENTIFICATION RELAY	Rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
M2	FUEL PUMP	Below RH side of rear seat	20-2	
M3	WIPER MOTOR	Rear of engine compartment below center of cowl	16-1	
M4	WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	10-1	
M5	INTENSIVE WASH PUMP	Front RH side of engine compartment		
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment on washer fluid reservoir	10-2	
M9	AUXILIARY FAN MOTOR	Behind front grille behind trim panel	18-1	
M12	DRIVER'S DOOR LOCK MOTOR	In lower LH front door behind trim panel		
M13	PASSENGER'S DOOR LOCK MOTOR	In lower RH side of front door behind trim panel		
M14	RIGHT REAR DOOR LOCK MOTOR	In lower RH rear door behind trim panel		
M15	LEFT REAR DOOR LOCK MOTOR	In lower LH rear door behind trim panel		
M16	GAS FILLER LOCK MOTOR	In RH rear side of luggage compartment	03-3	
M17	TRUNK LOCK MOTOR	Rear side of luggage compartment		
M20	LEFT REAR WINDOW MOTOR	In lower LH rear door behind trim panel		
M21	DRIVER'S WINDOW MOTOR	LH front door behind door panel	31-3	
M22	RIGHT REAR WINDOW MOTOR	In lower RH rear door behind door panel		
M23	PASSENGER'S WINDOW MOTOR	RH front door behind door panel	32-1	
M24	SUNROOF MOTOR	Center of windshield header		
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	Front LH side of engine compartment	18-2	

COMPONENT LOCATION CHART

COMPONENT

			PAGE – FIGURE 7100.0	8500.0
M30	BLOWER MOTOR	Rear of engine compartment behind RH fresh air cowl	15-2	
M34	DASH VENT MIXING FLAP MOTOR	Below LH side of dash RH side of steering column	29-2	
M36	FRESH AIR FLAP MOTOR	Below RH side of dash center console right	29-3	
M40	RECIRCULATION FLAP MOTOR	Below LH side of dash RH side of steering column	29-2	
M43	CONVERTIBLE TOP STORAGE LID LOCK MOTOR	In convertible top compartment left	22-1	
M50	DRIVER'S SEAT CUSHION TILT MOTOR	Under LH front seat	23-3	
M51	DRIVER'S SEAT MOVEMENT MOTOR	Under LH front seat	23-3	
M52	DRIVER'S SEAT HEIGHT MOTOR	Under LH front seat	23-3	
M53	DRIVER'S SEATBACK RECLINER MOTOR	Under LH front seat	23-3	
M58	PASSENGER'S SEATBACK RECLINER MOTOR	Under RH front seat		
M59	PASSENGER'S SEAT HEIGHT MOTOR	Under RH front seat		
M60	PASSENGER'S SEAT MOVEMENT MOTOR	Under RH front seat		
M61	PASSENGER'S SEAT CUSHION TILT MOTOR	Under RH front seat		
M93	AUXILIARY THROTTLE POSITION MOTOR (ADS)	Front of engine compartment		
M98	LEFT REAR WINDOW MOTOR	Left from LH rear seat behind trim panel	22-2	
M99	RIGHT REAR WINDOW MOTOR	RH side of RH rear seat behind trim panel	22-2	
M100	CONVERTIBLE TOP STORAGE LID MOTOR	In LH side of luggage compartment	34-1	
M101	CONVERTIBLE TOP MOTOR	In LH side of luggage compartment	34-3	
M105	REAR WINDOW BLOWER	Behind rear seats	21-3	
M107	GLOVE BOX LOCK MOTOR	RH side of dash behind glove box		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
M6133	AIR PUMP	Front of engine compartment		
M6510	STARTER	Rear LH side of engine compartment		
N3	DIMMER	LH side of dash		26-1
N4	ON-BOARD COMPUTER	Center console		03-1
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Footwell, driver's side		02-2
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar		33-1
N10	MULTI-FUNCTION CLOCK	Center console		
N12w	ANTI-THEFT CONTROL MODULE (ALPINE)	Behind glove box (glove box removed)		01-3
N17	CRASH CONTROL MODULE	Footwell, driver's side		02-2
N21	TWIN RELAY MODULE	Footwell, driver's side		02-2
N22	CD CHANGER	In LH forward side of luggage compartment		03-3
N24	ROLLOVER SENSOR	In lower LH C-pillar behind side panel		02-1
N404	DIVERSITY	In upper LH C-pillar		
N444	FM AMPLIFIER HLO	In upper RH C-pillar		
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment		05-3
P95	AUXILIARY FUSE BOX	Footwell, driver's side		
R11	BLOWER RESISTORS	Behind center of dashboard left		29-1
R13	HEADLIGHT WIDENING POTENTIOMETER	Front of engine compartment		
R6240	RESISTOR	Front of engine compartment		
R6252	THROTTLE POSITION SENSOR	RH front of engine (M3)		11-2

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100 0	8500 0
R6252	THROTTLE POSITION SENSOR	LH side of engine (near oil level stick) (320i-325i)	13-3	
R6252	THROTTLE POSITION SENSOR	LH side of engine compartment (318i)	17-3	
R8554	RESISTOR	Front of engine compartment		
S2	IGNITION SWITCH	LH side of dash	24-3	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	Center console near gearshift lever	30-3	
S4	HORN SWITCH	Top of steering column	24-2	
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	Center console	30-2	
S7	COMBINATION SWITCH	LH side of steering column	24-3	
S8	LIGHT SWITCH	LH side of dash	26-1	
S10	FOG LIGHT SWITCH	LH side of dash		
S13	PASSENGER'S DOOR JAMB SWITCH	Rear RH door pillar	33-3	
S14	DRIVER'S DOOR JAMB SWITCH	LH rear door jamb	33-3	
S15	REAR RIGHT DOOR JAMB SWITCH	In lower RH C-pillar	33-3	
S16	LEFT REAR DOOR JAMB SWITCH	In lower LH C-pillar	33-3	
S17	MIRROR CONTROL SWITCH	In upper LH front door		
S18	HAZARD SWITCH	Center console near gearshift lever	30-3	
S19	UNDERHOOD LIGHT SWITCH	Near RH headlight assembly		
S20y	RADIO MICROSWITCH	Center of dash		
S21	ENGINE HOOD SWITCH (DWA)	Front RH side of engine compartment on washer fluid reservoir	10-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S27	INERTIA SWITCH	In lower RH A-pillar		
S28	CRUISE CONTROL SWITCH	LH side of dash RH side of steering column above	24-3	
S29	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-3	
S30	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	
S31	PARK BRAKE SWITCH	Center console on rear of park brake lever	31-2	
S32	CLUTCH SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim	26-3	
S36	TEMPERATURE SWITCH	Front RH side of engine compartment near RH headlight assembly	09-3	
S38	SUNROOF SWITCH	Roof		
S40y	CENTRAL POWER WINDOW SWITCH	Center console		
S41	LEFT REAR WINDOW SWITCH	In lower LH rear door behind trim panel		
S42	RIGHT REAR WINDOW SWITCH	In lower RH rear door behind trim panel		
S51	DRIVER'S SEAT, SEAT CONTROL SWITCH	LH side of driver's seat		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever	30-2	
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	Center console near gearshift lever	30-1	
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	RH front seat		
S58	DRIVER'S SEAT BELT SWITCH	In LH front seat belt buckle		
S59	PASSENGER'S SEAT BELT SWITCH	In RH front seat belt buckle		
S61y	TRUNK LIGHT SWITCH	Underside of trunk lid left	34-2	
S63	ENGINE COOLANT LEVEL SWITCH	Front RH side of engine compartment	18-1	
S64	WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir	10-1	

COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

S71	LEFT FRONT IMPACT SENSOR	LH side of engine compartment	
S75	BLOWER SWITCH	Center of dash	
S77	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor	
S78	PASSENGER'S MAKEUP MIRROR SWITCH	Above RH sun visor	23-1
S82	REAR FOG LIGHT SWITCH	LH side of dash	
S123	ABS PEDAL TRAVEL SENSOR	Near brake master cylinder	18-3
S124	RIGHT REAR DOOR CONTACT	LH C-Pillar	
S125	LEFT REAR DOOR CONTACT	RH C-Pillar	
S126y	DRIVER'S POWER WINDOW SWITCH	Center console near gearshift lever	31-1
S127y	PASSENGER'S POWER WINDOW SWITCH	Center console near gearshift lever	31-1
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console	
S128z	LH REAR POWER WINDOW SWITCH	Center console	
S129y	RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	Center console	
S129z	RH REAR POWER WINDOW SWITCH	Center console	
S130	CHILD PROTECTION CONTROL (CONSOLE)	Center console	
S134y	IHKR CONTROL PANEL	Center of dash	
S143	CONVERTIBLE TOP ACTUATING SWITCH	Center console	

COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0	8500.0
S164	CONVERTIBLE TOP END-POSITION MICRO SWITCH	At convertible top linkage	
S165	CONVERTIBLE TOP POSITION MICRO SWITCH	At convertible top motor	
S196	REAR WINDOW BLOWER MICRO SWITCH	Behind rear seats	
S213	TRUNK LID MICRO SWITCH	Underside of trunk lid	
S214	CONVERTIBLE TOP STORAGE LID MICRO SWITCH	At convertible top linkage	
S8503	PROGRAM SWITCH	Center console	
S8507	KICK-DOWN SWITCH	LH footwell	
S8511	REVERSING LIGHT SWITCH	Under front of car LH side of transmission	
T6151	CYL. 1 IGNITION COIL	Top RH side of engine	13-1
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment (318i)	17-3
T6152	CYL. 2 IGNITION COIL	Top RH side of engine	13-1
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment (318i)	17-3
T6153	CYL. 3 IGNITION COIL	Top RH side of engine	13-1
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment (318i)	17-3
T6154	CYL. 4 IGNITION COIL	Top RH side of engine	13-1
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment (318i)	17-3
T6155	CYL. 5 IGNITION COIL	Top RH side of engine	13-1
T6156	CYL. 6 IGNITION COIL	Top RH side of engine	13-1
U4	TELEPHONE HANDSET	Below front of console	
V4	DAYTIME RUNNING LIGHTS CODING DIODE	LH side of dash	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
V7	ASC DIODE	Top LH side of engine compartment in Front Power Distribution Box		
V9501	UNCOUPLING DIODE (KL61)	Front of engine compartment		
X1	B+ JUNCTION POINT	Rear LH side of engine compartment	05-3	
X2	BATTERY B+ START POINT	Rear LH side of engine compartment	05-3	
X9	B+ JUNCTION POINT	Rear LH side of engine compartment	05-3	
X11	CONNECTOR (55-PINS, BLACK)	EARLY PRODUCTIONbehind glove box (glove box removed)	01-2	00-1
X13	CONNECTOR (30-PINS, BLACK)	Behind LH footwell kickpanel		00-4
X14	CONNECTOR (30-PINS, WHITE)	Behind LH footwell kickpanel		00-4
X16	CONNECTOR (26-PINS, WHITE)	LH side of dash rear of A2 instrument cluster	28-3	00-2
X17	CONNECTOR (26-PINS, BLUE)	LH side of dash rear of A2 instrument cluster	28-3	00-2
X20	CONNECTOR (25-PINS, BLACK)	Rear LH side of engine compartment	18-3	05-2
X22	CONNECTOR (26-PINS, BLUE)	RH side of dash behind glove box	01-2	00-2
X31	CONNECTOR (12-PINS, BLACK)	Rear LH side of engine compartment back of LH side shock tower	16-2	01-4
X32	CONNECTOR (12-PINS, WHITE)	LH footwell underside of steering column	27-3	02-6
X33	CONNECTOR (12-PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	02-6
X35	CONNECTOR (12-PINS, NATURAL)	Below LH side of dash RH side of steering column	27-3	02-6
X43	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X44	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X45	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X51	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X52	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X53	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X54	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X55	CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		03-6
X56	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X58	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X61	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		03-6
X63	CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		03-6
X64	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X65	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		03-6
X69	CONNECTOR (25-PINS, GRAY)	Rear LH side of engine compartment (325i)	18-3	05-2
X70	CONNECTOR (8-PINS, BLACK)	Front LH side of engine compartment	18-2	02-2
X72	CONNECTOR (8-PINS, NATURAL)	EARLY PRODUCTIONLH footwell underside of steering column	27-3	03-5
X72	CONNECTOR (6-PINS, BLACK)	LATE PRODUCTIONfootwell, driver's side		04-2
X74	CONNECTOR (30-PINS, ORANGE)	Below rear seat	00-2	12-2
X78	CONNECTOR (4-PINS, BLACK)	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	03-3
X82	CONNECTOR (3-PINS, BLACK)	Front of engine compartment on auxiliary fan	18-1	08-1
X85	CONNECTOR (3-PINS, BLACK)	Rear LH side of engine compartment	16-2	06-3
X87	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment RH top of radiator	09-3	06-3
X99	CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		03-6

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X107	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	10-1	
X109	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir	10-1	
X110	CONNECTOR (2-PINS, GRAY)	Rear RH side of engine compartment back of RH side shock tower		
X111	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir	18-3	
X112	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	18-1	
X113	CONNECTOR (2-PINS, GRAY)	Above RH front wheel well behind RH front wheel	09-2	
X114	CONNECTOR (2-PINS, GRAY)	Above LH front wheel well behind LH front wheel	09-2	
X116	CONNECTOR (2-PINS, BLACK)	LH footwell near brake pedal	26-3	
X118	CONNECTOR (2-PINS, BLACK)	Above LH front wheel well behind LH front wheel	09-2	
X121	CONNECTOR (2-PINS, WHITE)	LH footwell on clutch pedal	26-3	
X123	CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment on washer fluid reservoir	10-2	
X126	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment near RH headlight assembly	09-3	
X127	CONNECTOR (2-PINS, NATURAL)	Front RH side of engine compartment near RH headlight assembly	09-3	
X128	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment		
X132	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X133	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X137	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment		
X142	CONNECTOR (3-PINS, GRAY)	Under rear of car LH side of on differential		02-1
X143	CONNECTOR (3-PINS, GRAY)	Under rear of car LH side of on differential	08-1	02-1

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X161	CONNECTOR (1-PINS, WHITE)	Near RH headlight assembly		
X163	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	10-1	06-3
X165	GROUND	Front LH side of engine compartment	06-3	
X173	GROUND	Below LH side of dash	07-1	
X209	CONNECTOR (12-PINS, BLACK)	LH footwell underside of steering column		
X256	CONNECTOR (26-PINS, BLACK)	Ahead of RH front door in lower RH A-pillar	32-1	04-1
X257	CONNECTOR (26-PINS, BLACK)	Ahead of LH front door in lower LH A-pillar		04-1
X271	CONNECTOR (12-PINS, BLACK)	LH side of dash rear of A2 instrument cluster	28-3	01-3
X272	CONNECTOR (2-PINS, BLACK)	Under roof center panel		
X273	CONNECTOR (12-PINS, BLACK)	In lower LH B-pillar	21-1	01-2
X274	CONNECTOR (12-PINS, BLACK)	In lower RH B-pillar	21-1	01-2
X275	CONNECTOR (4-PINS, WHITE)	Under LH front seat under carpet	23-2	03-3
X279	CONNECTOR (4-PINS, WHITE)	Under RH front seat	32-3	03-3
X285	CONNECTOR (15-PINS, BLUE)	Behind glove box	25-2	00-3
X292	CONNECTOR (9-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X295	CONNECTOR (8-PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	03-5
X311	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid left	34-2	01-1
X312	CONNECTOR (2-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	03-3	01-6
X315	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid left	34-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X316	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	31-1	05-3
X317	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	30-3	05-3
X318	CONNECTOR (8-PINS, BLACK)	In RH rear side of luggage compartment behind RH rear light assembly	03-3	01-4
X319	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment behind LH rear light assembly		01-4
X320	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	30-3	04-2
X322	CONNECTOR (6-PINS, BLACK)	LH footwell	28-2	04-2
X324	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	31-1	05-3
X333	CONNECTOR (4-PINS, BLACK)	Rear of engine compartment below center of cowl	16-1	07-2
X336	CONNECTOR (6-PINS, WHITE)	Under roof center panel	04-2	09-3
X351	CONNECTOR (2-PINS, BLACK)	In upper RH B-pillar		
X352	CONNECTOR (3-PINS, BLACK)	In upper LH B-pillar		01-1
X355	CONNECTOR (2-PINS, BLACK)	In upper RH C-pillar	33-2	
X356	CONNECTOR (2-PINS, BLACK)	In upper LH C-pillar	33-1	
X371	CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir	10-2	
X372	CONNECTOR (2-PINS, GRAY)	Rear RH side of engine compartment back of RH side shock tower		
X379	CONNECTOR (1-PINS, NATURAL)	In upper LH C-pillar	33-1	
X380	CONNECTOR (1-PINS, NATURAL)	In upper RH C-pillar	33-2	
X381	CONNECTOR (3-PINS, BLACK)	Under roof center panel		01-1
X382	CONNECTOR (3-PINS, BLACK)	Above RH sun visor	23-1	01-1
X383	CONNECTOR (2-PINS, BLACK)	Under rear of car LH side of on differential	08-1	

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X386	CONNECTOR (2-PINS, BLACK)	REAR ASHTRAY LIGHT, E28y		
X388	CONNECTOR (2-PINS, BLACK)	In lower RH A-pillar		
X389	CONNECTOR (2-PINS, GRAY)	Rear LH side of engine compartment		
X390	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box		
X400	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment		03-5
X401	CONNECTOR (1-PINS, BLACK)	Above LH sun visor		
X402	CONNECTOR (1-PINS, BLACK)	Above RH sun visor	23-1	
X413	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X423	CONNECTOR (1-PINS, NATURAL)	Below center console on rear of park brake lever		
X424	CONNECTOR (1-PINS, BROWN)	In upper LH C-pillar	33-1	
X494	GROUND	Center console near gearshift lever	07-2	
X495	GROUND	Behind RH footwell trim above	07-3	
X498	GROUND	Center console near gearshift lever	07-2	
X503	CONNECTOR (12-PINS, WHITE)	Below LH side of dash	26-1	01-6
X504	CONNECTOR (4-PINS, WHITE)	Center console	26-1	03-3
X509	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)		03-6
X510	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)		03-6
X511	CONNECTOR (8-PINS, BLACK)	Center console near gearshift lever	30-3	01-4
X516	CONNECTOR (5-PINS, BLACK)	Center console	30-3	03-2
X517	CONNECTOR (4-PINS, BLACK)	Below LH side of dash	26-1	03-3

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X518	CONNECTOR (4-PINS, BLACK)	LH footwell	28-2	03-3
X521	CONNECTOR (6-PINS, BLUE)	Center console		04-5
X522	CONNECTOR (3-PINS, WHITE)	LH footwell	28-2	03-6
X523	CONNECTOR (3-PINS, NATURAL)	LH side of dash		03-6
X531	CONNECTOR (1-PINS, NATURAL)	Center console near gearshift lever	30-2	
X532	CONNECTOR (2-PINS, BLACK)	Center console near gearshift lever	30-2	
X537	CONNECTOR (2-PINS, BLACK)	In upper LH front door behind door panel	31-3	01-1
X538	CONNECTOR (2-PINS, BLACK)	RH front door behind door panel	32-1	
X539	CONNECTOR (2-PINS, BLACK)	Center console		
X540	CONNECTOR (2-PINS, BLACK)	LH side of glove box	25-1	
X541	CONNECTOR (1-PINS, NATURAL)	LH side of glove box	25-1	
X542	CONNECTOR (2-PINS, BLACK)	LH side of glove box	25-1	
X603	CONNECTOR (6-PINS, (---))	Center console		05-1
X604	CONNECTOR (6-PINS, (---))	RH front seat		05-1
X605	CONNECTOR (12-PINS, BLACK)	Below RH side of rear seat Convertible	02-3	11-3
X605	CONNECTOR (12-PINS, BLACK)	In LH side of luggage compartment	04-1	11-3
X606	CONNECTOR (26-PINS, BLACK)	Below RH side of rear seat Convertible	02-3	00-2
X606	CONNECTOR (26-PINS, BLACK)	In LH side of luggage compartment	04-1	00-2
X607	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		03-6
X623	CONNECTOR (4-PINS, BLACK)	In upper LH front door behind door panel		10-1

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X624	CONNECTOR (4-PINS, BLACK)	In upper RH front door behind door panel	32-1	10-1
X625	CONNECTOR (6-PINS, WHITE)	LH front door	31-3	05-1
X638	CONNECTOR (2-PINS, BLACK)	Below RH side of rear seat	20-2	
X641	CONNECTOR (6-PINS, BLACK)	RH front door behind door panel		08-2
X644	CONNECTOR (6-PINS, BLACK)	In lower LH rear door		05-3
X645	CONNECTOR (6-PINS, BLUE)	In lower LH rear door		06-2
X646	CONNECTOR (6-PINS, BLACK)	In lower RH rear door behind trim panel		06-2
X647	CONNECTOR (6-PINS, BLUE)	In lower RH rear door behind trim panel		08-4
X651	CONNECTOR (6-PINS, YELLOW)	Center console	30-2	05-3
X658	CONNECTOR (6-PINS, YELLOW)	Center console	30-1	05-3
X660	CONNECTOR (4-PINS, BLACK)	LH front door In door at key lock assembly		05-4
X662	CONNECTOR (6-PINS, GRAY)	Below LH side of dash RH side of steering column	29-2	04-5
X663	CONNECTOR (6-PINS, GRAY)	Below LH side of dash RH side of steering column	29-3	04-5
X669	CONNECTOR (6-PINS, GRAY)	Below RH side of dash center console right	29-2	04-5
X679	CONNECTOR (2-PINS, WHITE)	Below RH side of rear seat	20-2	
X692	CONNECTOR (3-PINS, BLACK)	Center console		02-1
X695	CONNECTOR (10-PINS, BLACK)	Below center console		02-4
X700	CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X701	CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X706	CONNECTOR (2-PINS, BLACK)	Center console	31-2	

COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X709 ..	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate	09-1	
X710 ..	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid, near license plate	09-1	
X711 ..	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left	34-2	
X712 ..	CONNECTOR (1-PINS, NATURAL)	Underside of trunk lid left		
X713 ..	CONNECTOR (2-PINS, BLACK)	Under rear of car LH side of on differential	08-1	
X714 ..	CONNECTOR (2-PINS, GRAY)	In lower LH rear door behind trim panel		
X720 ..	CONNECTOR (2-PINS, GRAY)	In lower RH rear door behind trim panel		
X726 ..	CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X727 ..	CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X728 ..	CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X729 ..	CONNECTOR (2-PINS, (---))	Under LH front seat	23-2	
X732 ..	CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet		03-3
X733 ..	CONNECTOR (4-PINS, BLACK)	Under LH front seat under carpet		03-3
X734 ..	CONNECTOR (2-PINS, (---))	Under RH front seat		
X735 ..	CONNECTOR (2-PINS, (---))	Under RH front seat		
X736 ..	CONNECTOR (2-PINS, (---))	Under RH front seat		
X737 ..	CONNECTOR (2-PINS, (---))	Under RH front seat		
X740 ..	CONNECTOR (4-PINS, BLACK)	Under RH front seat	24-1	03-3
X741 ..	CONNECTOR (4-PINS, BLACK)	Under RH front seat	24-1	03-3
X742 ..	CONNECTOR (2-PINS, YELLOW)	RH front door in door at key lock assembly		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X744	CONNECTOR (2-PINS, GRAY)	RH front door behind door panel	32-1	
X746	CONNECTOR (3-PINS, BLACK)	RH front door behind door panel	32-1	01-1
X747	CONNECTOR (2-PINS, YELLOW)	LH front door in door at key lock assembly	32-2	
X749	CONNECTOR (4-PINS, BLACK)	In upper LH front door	31-3	12-3
X751	CONNECTOR (2-PINS, WHITE)	LH front door in door at key lock assembly	32-2	
X752	CONNECTOR (2-PINS, GRAY)	LH front door in door at key lock assembly	32-2	
X757	CONNECTOR (2-PINS, BLACK)	LH front door	31-3	
X768	CONNECTOR (2-PINS, WHITE)	In the engine compartment near LH headlight assembly	08-2	
X768	CONNECTOR (2-PINS, WHITE)	In the engine compartment near LH headlight assembly		
X769	CONNECTOR (2-PINS, WHITE)	In the engine compartment near RH headlight assembly	08-2	
X770	CONNECTOR (2-PINS, YELLOW)	Front RH side of engine compartment	20-1	
X771	CONNECTOR (2-PINS, BLACK)	RH side of LH footwell LH side of IHKR Plenum	28-1	
X772	CONNECTOR (2-PINS, WHITE)	Center console		
X773	CONNECTOR (2-PINS, WHITE)	Center console		
X774	CONNECTOR (1-PINS, GRAY)	Rear of engine compartment behind RH fresh air cowl		
X778	CONNECTOR (3-PINS, BLACK)	In LH front seat belt buckle	23-2	01-1
X779	CONNECTOR (2-PINS, BLACK)	LH side of glove box	25-1	
X782	CONNECTOR (3-PINS, ORANGE)	Front LH side of engine compartment	27-2	13-1
X783	CONNECTOR (3-PINS, BLACK)	Underside of steering column		13-1
X786	CONNECTOR (2-PINS, BLACK)	UNDERHOOD LIGHT, E20		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X816	CONNECTOR (2-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X817	CONNECTOR (1-PINS, BLACK)	Rear of engine compartment behind RH fresh air cowl		
X904	CONNECTOR (4-PINS, GRAY)	LH side of IHKR Plenum	29-1	03-3
X905	CONNECTOR (5-PINS, BLACK)	Behind center of dashboard		
X998	CONNECTOR (4-PINS, BLACK)	Below center console		03-1
X999	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard LH side of IHKR Plenum		03-3
X1001	CONNECTOR (4-PINS, BLACK)	RIGHT REAR SPEAKER, H45		03-3
X1002	CONNECTOR (4-PINS, (---))	LEFT REAR SPEAKER, H46		03-3
X1014	CONNECTOR (1-PINS, BLACK)	Center console near gearshift lever	30-2	
X1034	CONNECTOR (3-PINS, BLACK)	Near LH headlight assembly	13-2	11-2
X1070	CONNECTOR (18-PINS, BLACK)	Center console	03-1	01-5
X1071	CONNECTOR (18-PINS, NATURAL)	Center console	03-1	01-5
X1074	CONNECTOR (15-PINS, WHITE)	Below LH side of dash	00-3	00-3
X1075	CONNECTOR (15-PINS, BLACK)	Below LH side of dash	00-3	00-3
X1082	CONNECTOR (9-PINS, BLACK)	Behind LH footwell speaker grille		03-6
X1161	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X1162	CONNECTOR (2-PINS, BLACK)	Near brake master cylinder	18-3	
X1165	GROUND	Below LH side of dash	07-1	
X1166	GROUND	Behind RH footwell trim above	07-3	
X1170	CONNECTOR (42-PINS, BLACK)	LATE PRODUCTIONbehind glove box (glove box removed)	01-2	12-4

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1171	CONNECTOR (55-PINS, BLACK)	Behind glove box (glove box removed)	01-3	00-1
X1176	CONNECTOR (25-PINS, BLACK)	LH side of engine compartment		05-3
X1178	CONNECTOR (2-PINS, WHITE)	Below center console LH side of gearshift selector		
X1193	CONNECTOR (3-PINS, BLACK)	Center console RH side of gearshift selector		01-1
X1213	CONNECTOR (2-PINS, BLACK)	Center console	31-2	
X1239	CONNECTOR (2-PINS, BLACK)	RH C-Pillar		
X1240	CONNECTOR (2-PINS, BLACK)	LH C-Pillar		
X1241	CONNECTOR (2-PINS, NATURAL)	Below LH side of rear seat	21-2	
X1242	CONNECTOR (26-PINS, BLACK)	Behind glove box	01-1	00-2
X1243	CONNECTOR (6-PINS, BLACK)	Center console near gearshift lever	31-1	04-2
X1245	CONNECTOR (1-PINS, BLACK)	Above LH sun visor		
X1246	CONNECTOR (1-PINS, BLACK)	Above RH sun visor		
X1380	CONNECTOR (1-PINS, NATURAL)	Behind RH footwell speaker grille		
X1381	CONNECTOR (1-PINS, NATURAL)	Behind LH footwell kickpanel		
X1426	CONNECTOR (1-PINS, BROWN)	Rear RH side of engine compartment in E-Box		
X5013	CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-2	
X5013	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X5020	CONNECTOR (2-PINS, BLACK)	Front of engine compartment (M3)		
X5021	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		
X5022	CONNECTOR (3-PINS, BLACK)	Front of engine compartment (M3)	12-2	07-3

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100 0	8500 0
X5023	CONNECTOR (3-PINS, BLACK)	RH front of engine (M3)	12-1	07-3
X5023	CONNECTOR (3-PINS, BLACK)	Front of engine compartment		07-3
X5024	CONNECTOR (15-PINS, WHITE)	Rear RH side of engine compartment	04-3	00-3
X5028	CONNECTOR (4-PINS, BLACK)	Lower LH side of engine (M3)		03-4
X5029	CONNECTOR (10-PINS, BLACK)	Front LH side of engine compartment in Front Power Distribution Box		09-1
X5032	CONNECTOR (15-PINS, BLACK)	Front of engine compartment		00-3
X6000	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment	00-1	06-1
X6002	CONNECTOR (20-PINS, BLACK)	Rear RH side of engine compartment	05-1	04-4
X6101	CONNECTOR (2-PINS, BLACK)	On throttle body (M3)	11-2	
X6101	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6102	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6103	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6104	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6105	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6106	CONNECTOR (2-PINS, BLACK)	Top center of engine		
X6120	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment right of LH side shock tower	15-1	
X6120	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment right of LH side shock tower	20-3	
X6130	CONNECTOR (3-PINS, GRAY)	RH front of engine below intake manifold (325i)	11-3	13-2
X6130	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment (M3)	14-3	
X6133	CONNECTOR (2-PINS, BLACK)	Front of engine compartment		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6151	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6152	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6153	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6154	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6155	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6156	CONNECTOR (3-PINS, GRAY)	Top RH side of engine		07-4
X6200	CONNECTOR (4-PINS, BLACK)	Under center of car	15-3	03-4
X6203	CONNECTOR (3-PINS, BLACK)	Front of engine below intake manifold (M3)	12-2	13-2
X6204	CONNECTOR (3-PINS, BLACK)	Front of engine below intake manifold (M3)	12-2	07-3
X6205	CONNECTOR (2-PINS, BLACK)	LH side of engine (near oil level stick)	13-3	
X6208	CONNECTOR (2-PINS, BLACK)	Front of engine CAMSHAFT ACTUATOR, B6208		
X6209	CONNECTOR (3-PINS, BLACK)	Front of engine HALL EFFECT CAMSHAFT SENSOR, B6209		07-5
X6217	CONNECTOR (4-PINS, GRAY)	Top front of engine		07-2
X6231	CONNECTOR (2-PINS, BROWN)	RH front of engine below intake manifold (near oil level stick) (325i)	11-1	
X6231	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment (near oil level stick) (M3)	14-2	
X6231	CONNECTOR (2-PINS, BROWN)	RH front of engine below intake manifold (near oil level stick) (318i)	17-1	
X6232	CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (325i)	11-3	
X6232	CONNECTOR (2-PINS, BLACK)	RH front of engine (M3)	12-1	
X6232	CONNECTOR (2-PINS, BLACK)	RH front of engine below intake manifold (318i)	17-2	
X6233	CONNECTOR (7-PINS, BLACK)	LH side of engine compartment right of LH side shock tower		04-3

COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0	8500.0
X6236 . CONNECTOR (2-PINS, BLUE)	RH front of engine below intake manifold (325i)	11-1	
X6236 . CONNECTOR (2-PINS, BLUE)	RH front of engine (M3)	12-1	
X6236 . CONNECTOR (2-PINS, BLUE)	RH front of engine below intake manifold (318i)	17-2	
X6238 . CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-2	
X6241 . CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6241 . CONNECTOR (3-PINS, BLACK)	LH side of engine (318i)	16-3	07-5
X6242 . CONNECTOR (2-PINS, BLACK)	LH side of engine (M3)	14-1	07-3
X6242 . CONNECTOR (3-PINS, BLACK)	LH side of engine (318i)	16-3	07-5
X6243 . CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6252 . CONNECTOR (3-PINS, BLACK)	LH side of engine (M3)	11-2	07-3
X6252 . CONNECTOR (3-PINS, BLACK)	LH side of engine (near oil level stick) (320i-325i)	13-3	13-2
X6300 . CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6301 . CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6303 . CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment		03-6
X6307 . CONNECTOR (10-PINS, BLACK)	Front of engine compartment		09-1
X6454 . GROUND	Rear RH side of engine compartment back of RH side shock tower	06-2	
X6456 . GROUND	RH front of engine (325i)	11-3	
X6509 . CABLE SOCKET ALTERNATOR B+	Front LH side of engine compartment	05-2	
X6509 . CABLE SOCKET ALTERNATOR B+	Front LH side of engine compartment		
X6510 . CABLE SOCKET STARTER TERMINAL 50	Rear LH side of engine compartment below intake manifold		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6511	CABLE SOCKET ALTERNATOR TERMINAL 30h	Rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	Rear LH side of engine compartment below intake manifold		
X7000	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment	00-1	06-1
X7509	CABLE SOCKET ALTERNATOR TERMINAL D+	Front LH side of engine compartment below		
X8500	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment	00-1	00-1
X8503	CONNECTOR (10-PINS, WHITE)	Center console RH side of gearshift selector	31-1	02-4
X8507	CONNECTOR (1-PINS, BLACK)	Below LH side of dash		
X8511	CONNECTOR (2-PINS, BLACK)	Under front of car LH side of transmission		
X8516	CONNECTOR (3-PINS, BLACK)	Under center of car above		13-2
X8521	CONNECTOR (9-PINS, BLACK)	Under center of car above		13-3
X9997	CONNECTOR (2-PINS, ORANGE)	Behind steering wheel	24-2	
X10012	GROUND	Behind RH footwell trim above	07-3	
X10013	CONNECTOR (1-PINS, (---))	Top of steering column		
X10015	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10016	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10017	CONNECTOR (20-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X10018	CONNECTOR (32-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10026	CONNECTOR (6-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10030	CONNECTOR (5-PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10031	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		03-6
X10034	CONNECTOR (2-PINS, (---))	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10035	CONNECTOR (2-PINS, (---))	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10036	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX, P90		
X10054	CONNECTOR (12-PINS, BLACK)	Below LH side of dash RH side of steering column	28-1	02-6
X10065	CONNECTOR (2-PINS, WHITE)	LH side of LH footwell under footrest		
X10070	CONNECTOR (2-PINS, GRAY)	Near LH headlight assembly	13-2	
X10071	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly	13-2	
X10074	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly		
X10075	CONNECTOR (2-PINS, GRAY)	Near RH headlight assembly		
X10092	CONNECTOR (9-PINS, BLACK)	Behind glove box left	25-2	03-6
X10094	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X10098	CONNECTOR (1-PINS, (---))	Front RH side of engine compartment		
X10099	CONNECTOR (1-PINS, (---))	Front RH side of engine compartment		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X10182	CONNECTOR (18-PINS, BLACK)	Behind glove box (glove box removed)	01-1	01-5
X10193	CONNECTOR (9-PINS, BLACK)	Behind glove box (glove box removed)		03-6
X10218	CONNECTOR (3-PINS, NATURAL)	Under RH front seat	24-1	01-1
X10223	CONNECTOR (3-PINS, BLACK)	In convertible top compartment left	22-1	03-6
X10224	CONNECTOR (2-PINS, BLACK)	In convertible top compartment left	22-1	
X10225	CONNECTOR (3-PINS, BLACK)	Underside of trunk lid		01-1
X10226	CONNECTOR (9-PINS, BLACK)	Behind glove box	25-2	03-6
X10238	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X10239	CONNECTOR (3-PINS, BLACK)	LH side of engine compartment		07-3
X10240	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		03-6
X10244	CONNECTOR (1-PINS, BLACK)	Below LH side of dash		
X10250	CONNECTOR (2-PINS, (---))	Behind LH footwell speaker grille		
X11205	CONNECTOR (2-PINS, BLACK)	In convertible top compartment behind rear seats		
X11209	CONNECTOR (2-PINS, BLACK)	Behind rear seats left		
X11211	CONNECTOR (2-PINS, (---))	In convertible top compartment		
X13004	GROUND	In upper RH rear seatback	06-1	
X13006	GROUND	In upper LH rear seatback		
X13009	GROUND	Behind RH footwell trim above	07-3	
X13016	GROUND	Below LH side of dash	07-1	
X13025	CONNECTOR (12-PINS, BLACK)	Behind glove box (glove box removed)	01-3	02-6

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X13026	CONNECTOR (1-PINS, BLACK)	LH side of dash		
X13044	CONNECTOR (12-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	01-3
X13045	CONNECTOR (6-PINS, GREEN)	Center console		05-3
X13079	CONNECTOR (3-PINS, YELLOW)	Behind rear seats		01-1
X13142	CONNECTOR (2-PINS, WHITE)	Behind rear seats	21-3	
X13143	CONNECTOR (3-PINS, BLACK)	Behind rear seats		01-1
X13145	CONNECTOR (6-PINS, BLACK)	In LH side of luggage compartment	34-3	04-2
X13146	CONNECTOR (2-PINS, BLACK)	In LH side of luggage compartment	34-1	
X13152	CONNECTOR (4-PINS, BLACK)	In LH side of luggage compartment	34-1	07-6
X13156	CONNECTOR (10-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	09-4
X13157	CONNECTOR (6-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	05-3
X13159	CONNECTOR (26-PINS, BLACK)	In lower LH C-pillar behind side panel	02-1	00-2
X13226	CONNECTOR (2-PINS, BLACK)	Behind rear seats		
X13227	CONNECTOR (2-PINS, BLACK)	Behind rear seats		
X13230	GROUND	Behind RH footwell trim above Convertible		
X13252	CONNECTOR (15-PINS, YELLOW)	Behind glove box (glove box removed)	01-1	00-3
X13253	CONNECTOR (26-PINS, YELLOW)	Behind glove box (glove box removed)	01-1	00-2
X13254	CONNECTOR (26-PINS, GREEN)	Behind glove box (glove box removed)	01-1	00-2
X13255	CONNECTOR (12-PINS, NATURAL)	Behind glove box (glove box removed)		01-3
X13256	CONNECTOR (2-PINS, GRAY)	Left from LH rear seat behind trim panel	22-2	

COMPONENT LOCATION CHART

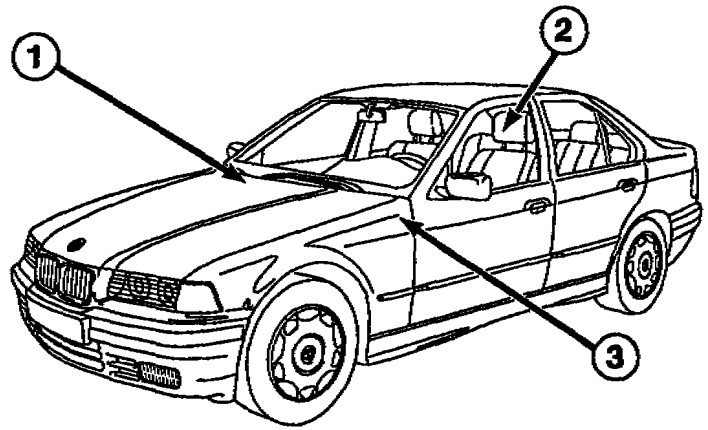
COMPONENT			PAGE – FIGURE 7100.0	8500.0
X13257	CONNECTOR (2-PINS, GRAY)	RH side of RH rear seat behind trim panel	22-2	
X13258	CONNECTOR (15-PINS, WHITE)	Behind glove box (glove box removed)	25-2	00-3
X13262	CONNECTOR (6-PINS, BLUE)	Center console		05-3
X13263	CONNECTOR (2-PINS, BLACK)	Behind glove box		
X18080	CONNECTOR (1-PINS, NATURAL)	In luggage compartment		
X18126	CONNECTOR (17-PINS, BLACK)	Center console behind radio		02-3
X18154	CONNECTOR (26-PINS, BLUE)	Center console		00-2
X18155	CONNECTOR (26-PINS, WHITE)	Center console	03-2	00-2
X18156	CONNECTOR (26-PINS, BLACK)	Center console	03-2	00-2
X18157	CONNECTOR (26-PINS, BLUE)	Center console	03-2	00-2
X18180	CONNECTOR (3-PINS, WHITE)	In RH rear side of luggage compartment	03-3	02-1
X18196	CONNECTOR (10-PINS, BLACK)	Driver's door LEFT FRONT HIGH RANGE SPEAKER, H59		02-4
X18198	CONNECTOR (10-PINS, BLACK)	Passenger's door RIGHT FRONT HIGH RANGE SPEAKER, H50		02-4
X18277	CONNECTOR (2-PINS, BLACK)	LH front door	32-2	
X18295	CONNECTOR (2-PINS, YELLOW)	In lower RH B-pillar behind trim panel		
X18296	CONNECTOR (2-PINS, YELLOW)	In lower LH B-pillar behind trim panel	32-2	
X18336	CONNECTOR (3-PINS, BLACK)	LH side of glove box (glove box removed)		01-1
X18500	CONNECTOR (25-PINS, (---))	Center console		
X18507	CONNECTOR (2-PINS, (---))	Center console		
X18509	CONNECTOR (8-PINS, (---))	Center console		

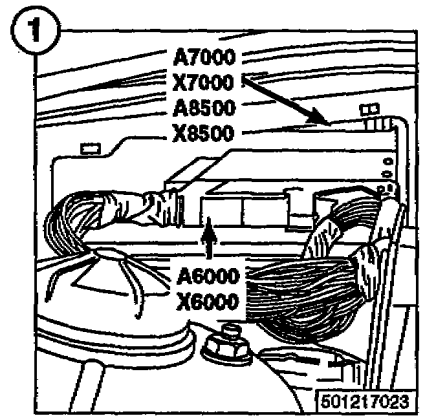
COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18515	CONNECTOR (2-PINS, (---))	LH side of LH footwell behind trim panel		
X18518	CONNECTOR (3-PINS, BLACK)	Under RH front seat		01-1
X18520	CONNECTOR (10-PINS, (---))	Center console RADIO, N9		
X18521	CONNECTOR (10-PINS, (---))	RH side of luggage compartment CD CHANGER, N22		
X18723	GROUND	Below LH side of dash		
X18741	CONNECTOR (4-PINS, (---))	Center of dash MICROPHONE, B400		
X18797	CONNECTOR (1-PINS, NATURAL)	In RH rear side of luggage compartment		
X18798	CONNECTOR (1-PINS, NATURAL)	In RH rear side of luggage compartment		
Y1	ABS HYDRAULIC UNIT	Rear LH side of engine compartment back of LH side shock tower	16-2	
Y1w	ABS HYDRAULIC UNIT	LH side of engine compartment		
Y2	AIR CONDITIONING COMPRESSOR	Front of engine		
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment	16-2	
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		
Y19	SHIFT-LOCK	Center console RH side of gearshift selector		
Y85	LH ROLLOVER PROTECTION ACTUATOR	Behind rear seats Convertible	02-3	
Y86	RH ROLLOVER PROTECTION ACTUATOR	Behind rear seats Convertible	02-3	
Y5013	CHANGE-OVER VALVE	LH side of engine (M3)	14-2	
Y5020	VARIABLE CAMSHAFT CONTROL VALVE 1	RH front of engine (M3)	11-2	
Y5021	VARIABLE CAMSHAFT CONTROL VALVE 2	Front of engine compartment (M3)		

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
Y6101	CYL. 1 FUEL INJECTION VALVE	RH front of engine (M3)	11-2	
Y6101	CYL. 1 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6102	CYL. 2 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6103	CYL. 3 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6104	CYL. 4 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6105	CYL. 5 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6106	CYL. 6 FUEL INJECTION VALVE	Top center of engine	12-3	
Y6120	EVAPORATIVE EMISSION VALVE	Front LH side of engine compartment right of LH side shock tower	15-1	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment right of LH side shock tower	20-3	
Y6130	IDLE SPEED CONTROL VALVE	RH front of engine below intake manifold (325i)	11-3	
Y6130	IDLE SPEED CONTROL VALVE	Rear LH side of engine compartment (M3)	14-3	
Y6208	CAMSHAFT ACTUATOR	Front of engine compartment		
Y8505y	TRANSMISSION VALVE UNIT	On LH side of transmission		

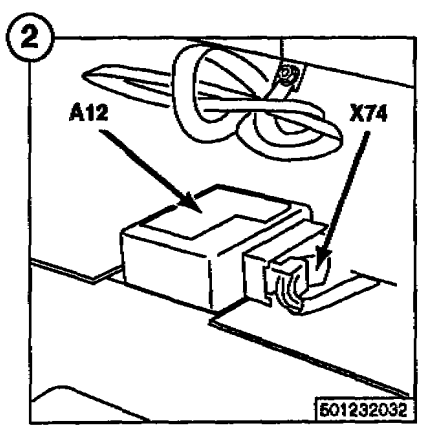




A6000 ENGINE CONTROL MODULE (DME) — X6000, X7000, X8500

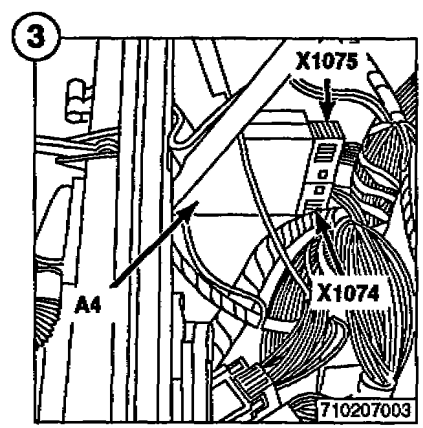
A7000 TRANSMISSION CONTROL MODULE (EGS)

A8500 TRANSMISSION CONTROL MODULE (EGS)



A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X74

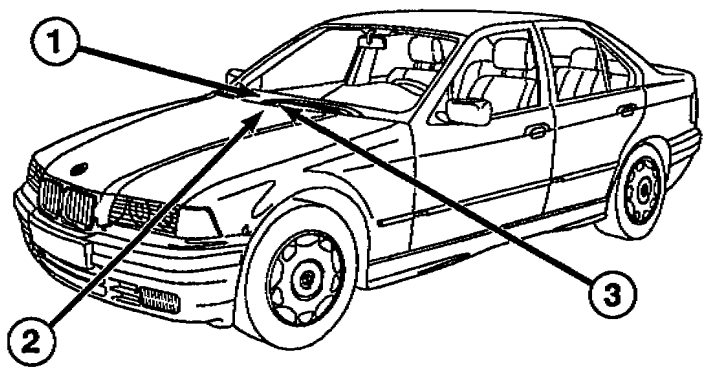


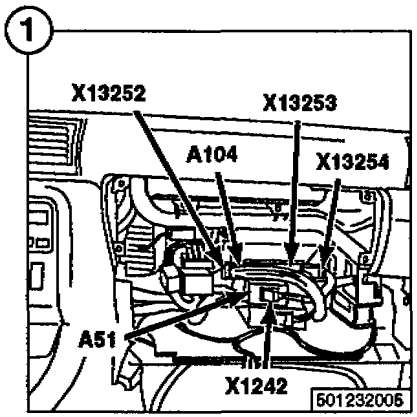
A4 CHECK CONTROL MODULE

X1074
X1076

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

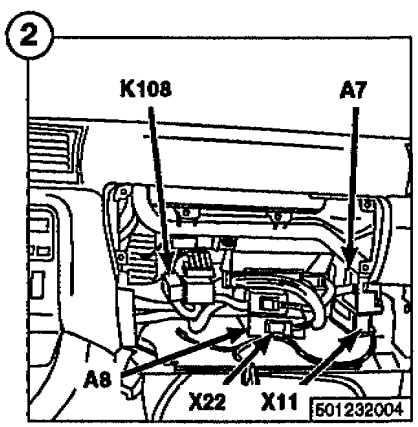




A51
WIPER/WASHER
MODULE

A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)

X1242
X13252
X13253
X13254

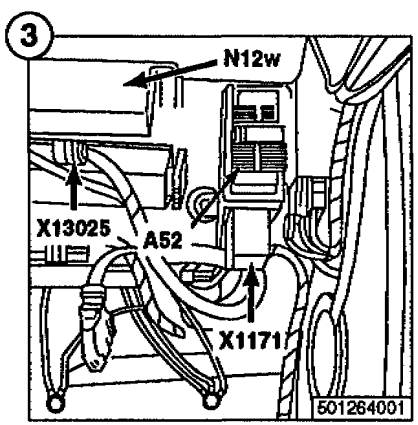


A7
SLIP CONTROL
MODULE (ABS)

A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

K108
HORN RELAY
(ALPINE)

X11
X22
X1170



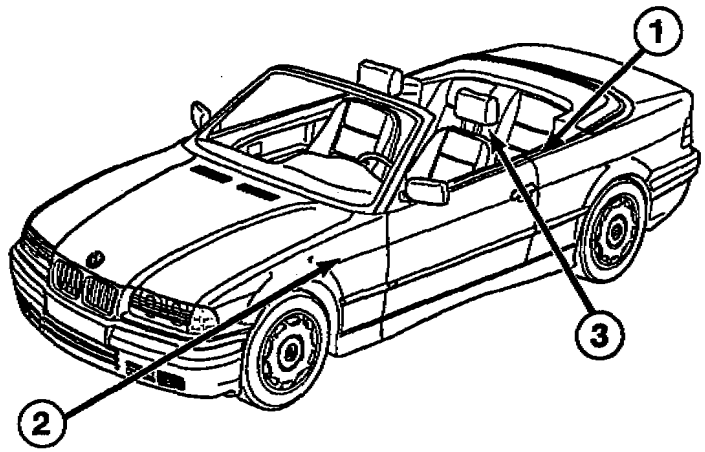
A52
SLIP CONTROL
MODULE
(ABS/ASC)

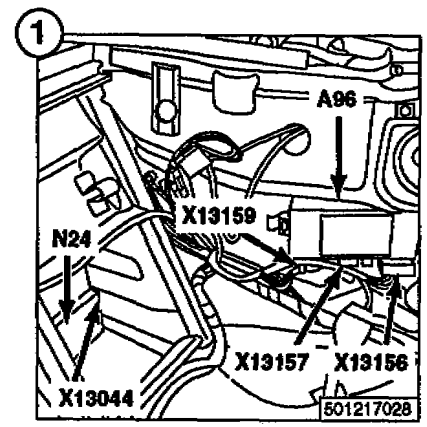
N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)

X1171
X13025

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



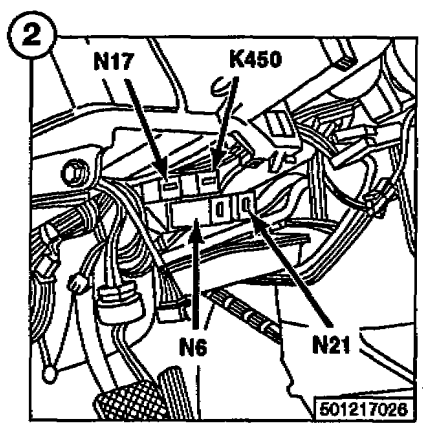


A96
CONVERTIBLE TOP
CONTROL MODULE

N24
ROLLOVER SENSOR

X13044
X13156
X13157
X13159

CONVERTIBLE

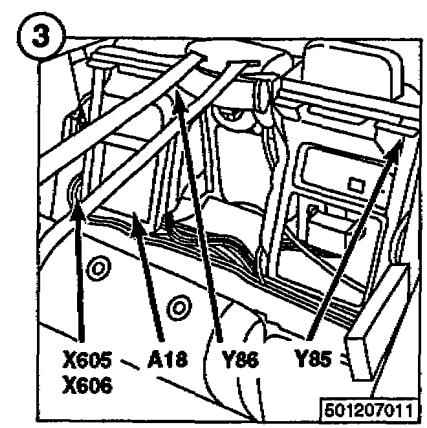


N6
HEADLIGHT/
FOGLIGHT
CLEANING
MODULE (SRA)

K450
PARK VENTILA-
TION RELAY

N17
CRASH CONTROL
MODULE

N21
TWIN RELAY
MODULE



A18
HIFI AMPLIFIER

X605
X606

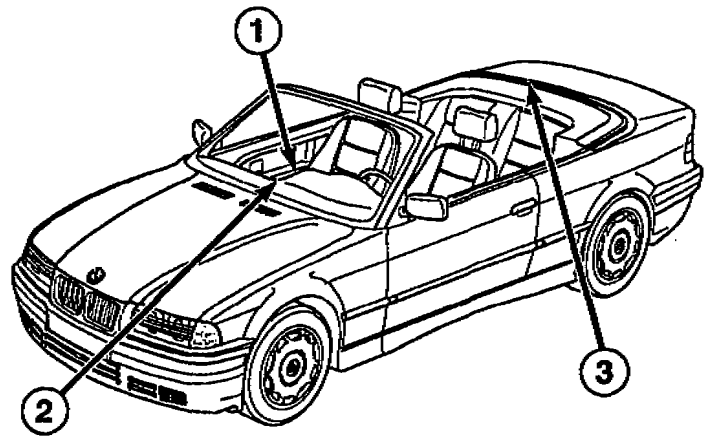
Y85
LH ROLLOVER
PROTECTION
ACTUATOR

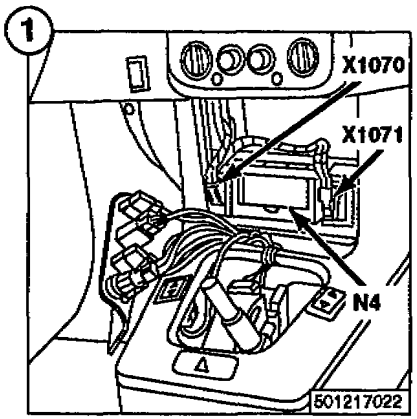
Y86
RH ROLLOVER
PROTECTION
ACTUATOR

CONVERTIBLE

COMPONENT LOCATION VIEWS

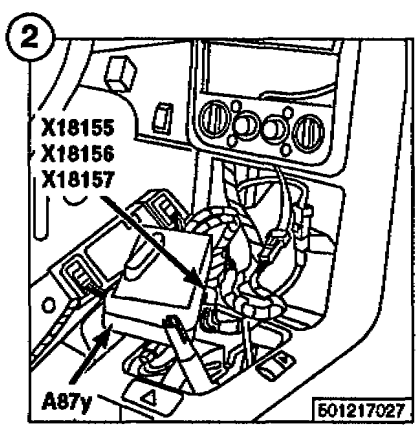
ELECTRICAL CONTROL MODULE LOCATIONS





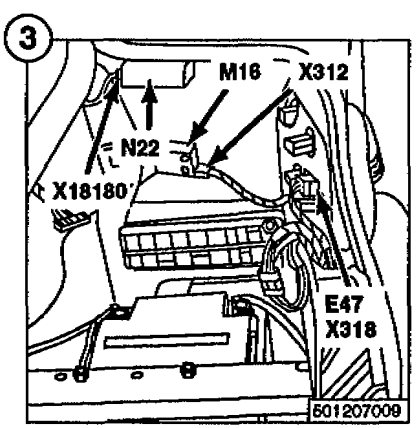
N4
ON-BOARD
COMPUTER

X1070
X1071



A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE

X18155
X18156
X18157

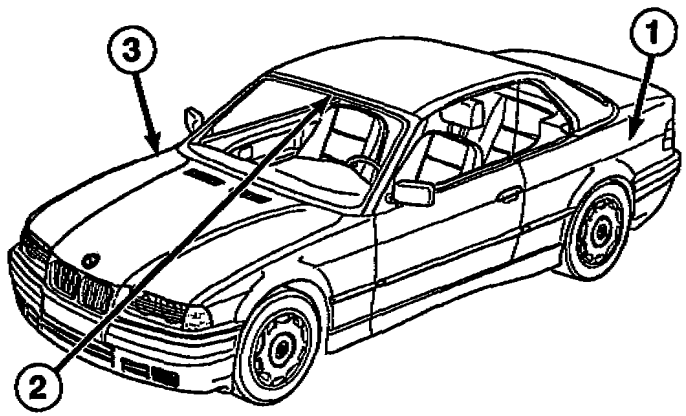


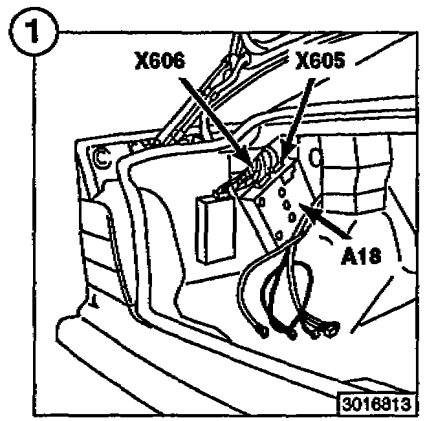
E47
RIGHT TRUNK
LIGHT ASSEMBLY

X312
X318
X18180

M16
GAS FILLER
LOCK MOTOR

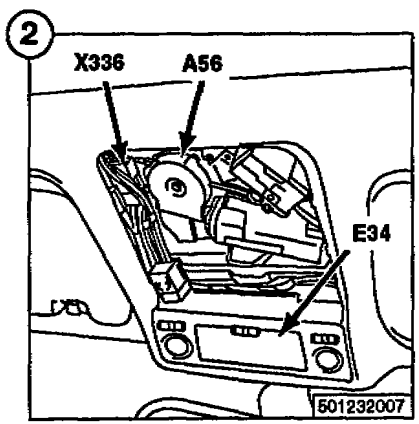
N22
CD CHANGER





A18
HIFI AMPLIFIER

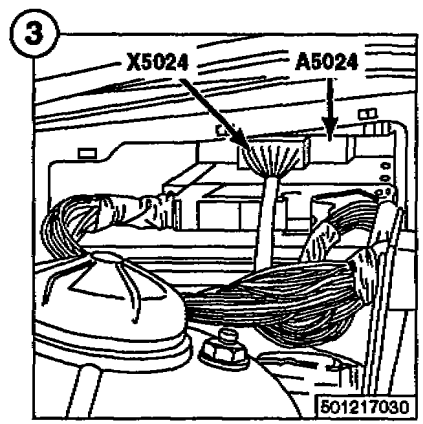
X605
X606



A56
SUNROOF CONTROL
ASSEMBLY

E34
FRONT DOME
LIGHT/
MAP READING
ASSEMBLY

X336

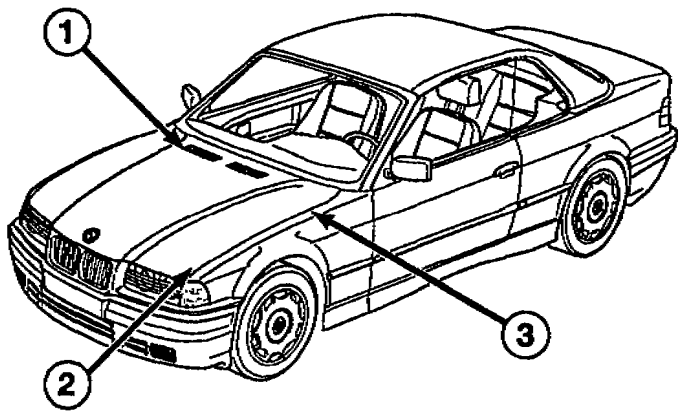


A5024
VARIABLE
CAMSHAFT
CONTROL MODULE
(VANOS)

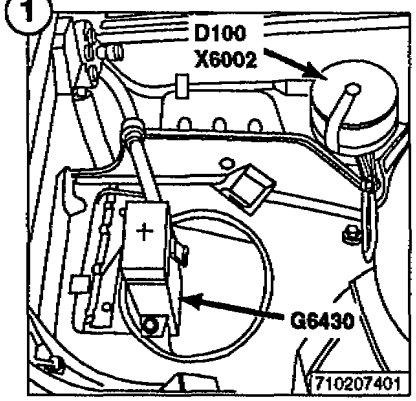
X5024

COMPONENT LOCATION VIEWS

B(+)



1

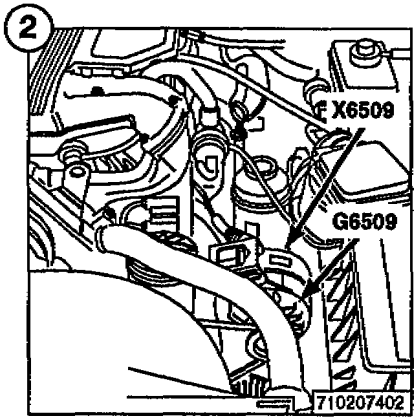


D100
DATA LINK
CONNECTOR

G6430
B+
JUMP START
JUNCTION POINT

X6002

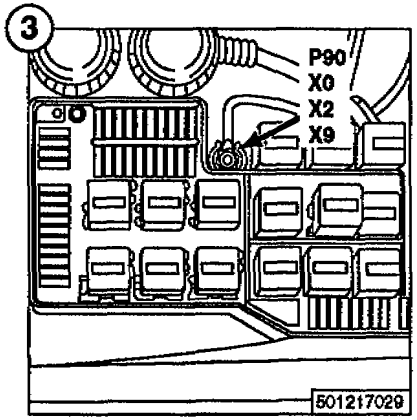
2



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+

3



P90
FRONT POWER
DISTRIBUTION
BOX

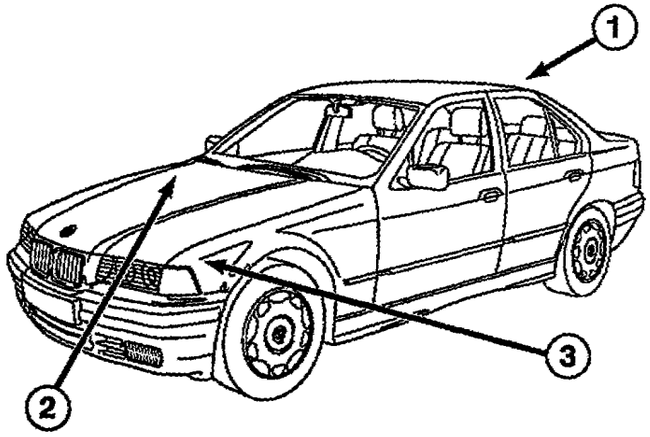
X0
B+
JUNCTION POINT

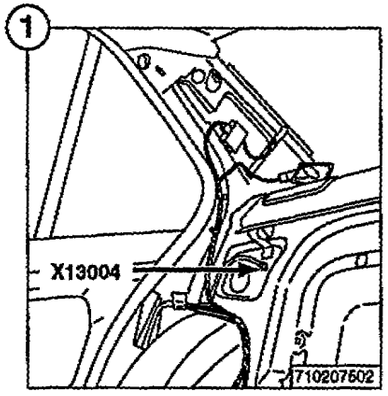
X2
BATTERY
B+ START POINT

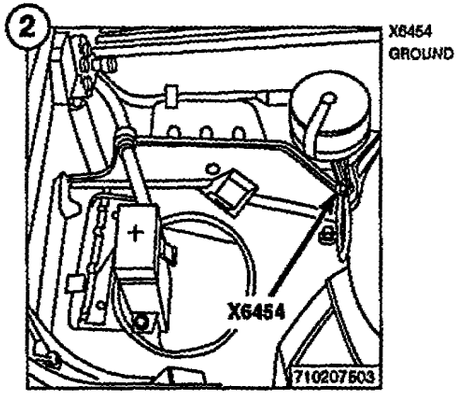
X9
B+
JUNCTION POINT

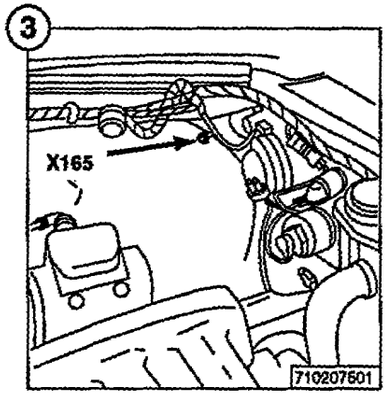
COMPONENT LOCATION VIEWS

B(-)



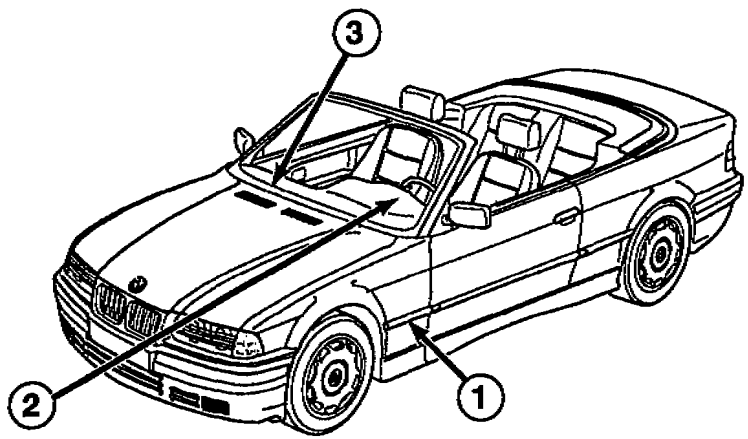


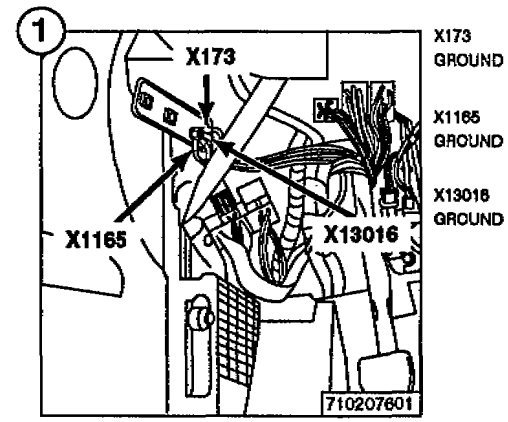


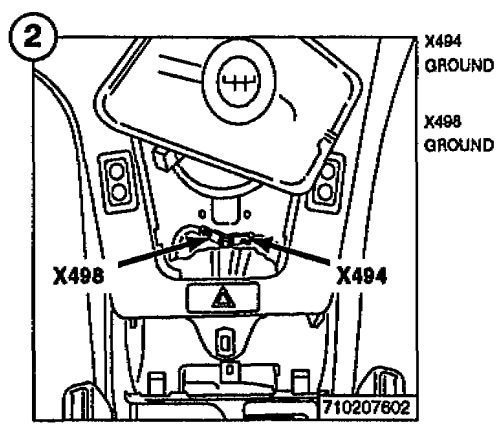


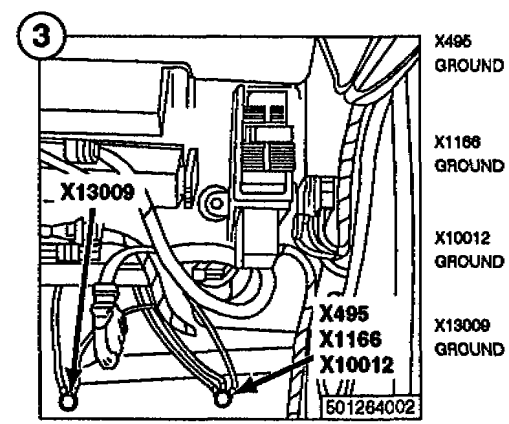
COMPONENT LOCATION VIEWS

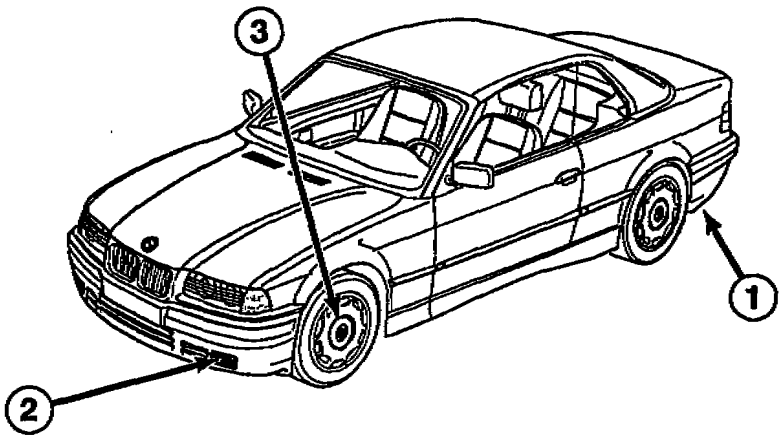
B(-)

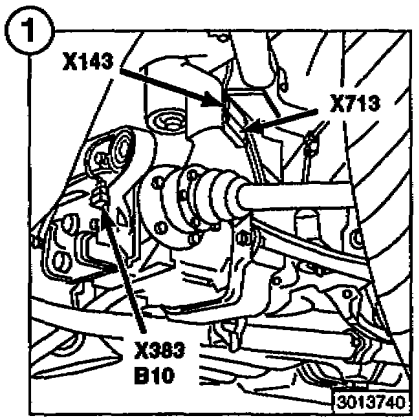






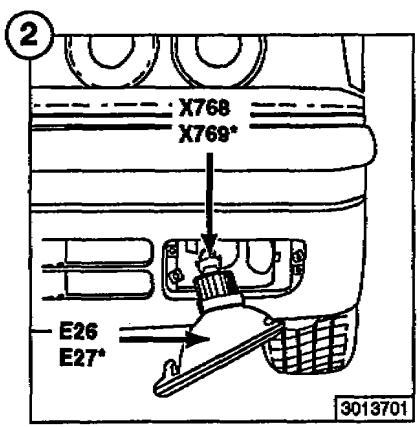






B10
VEHICLE
SPEED SENSOR

X143
X383
X713

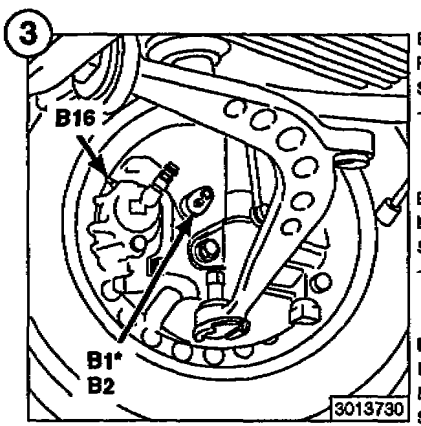


E26
LEFT
FOG LIGHT

E27 *
RIGHT
FOG LIGHT

X768
X769 *

*RH similar



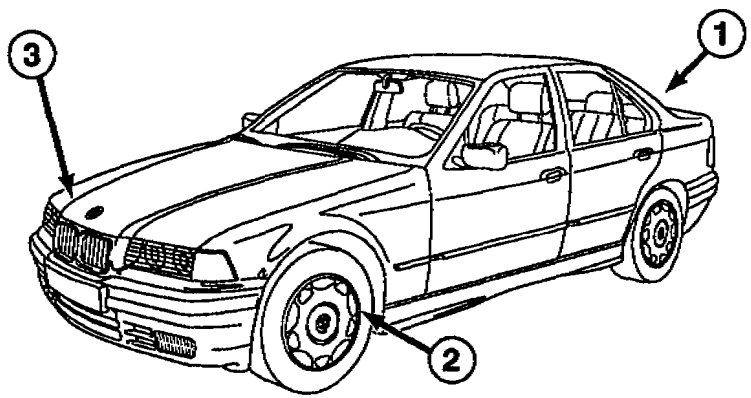
B1 *
RIGHT FRONT
SPEED SENSOR
– ABS

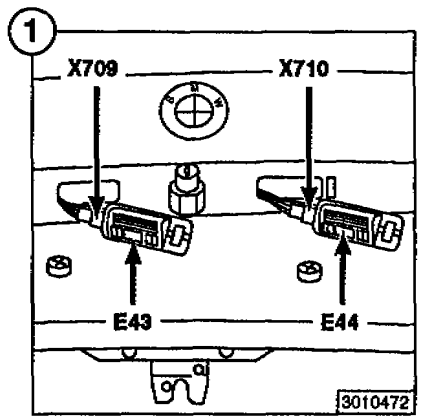
B2
LEFT FRONT
SPEED SENSOR
– ABS

B16
LEFT FRONT
BRAKE PAD
SENSOR

*RH similar

COMPONENT LOCATION VIEWS

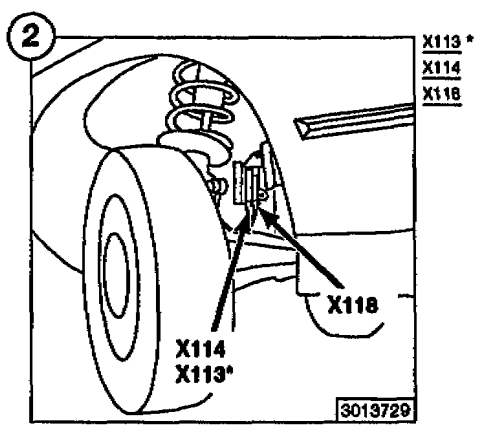




E43
LEFT
LICENSE PLATE
LIGHT

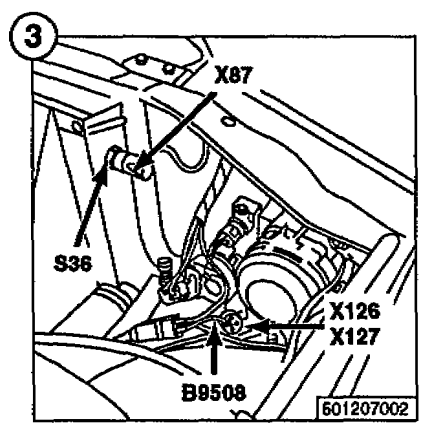
E44
RIGHT
LICENSE PLATE
LIGHT

X709
X710



X113 *
X114
X116

*RH similar

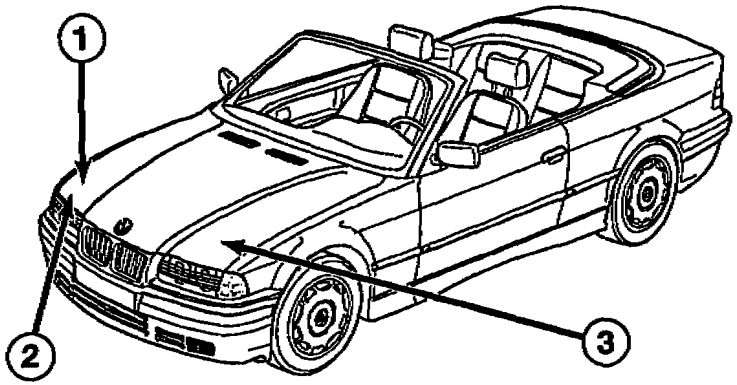


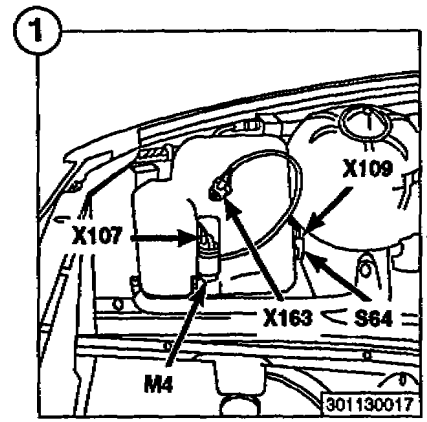
B9508
PRESSURE
SWITCH

S36
TEMPERATURE
SWITCH

X87
X126
X127

325i

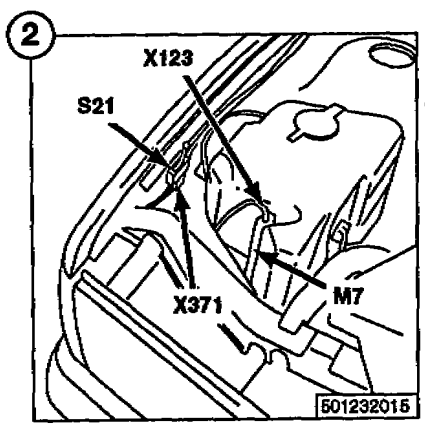




1 M4
WASHER PUMP

S64
WASHER
FLUID LEVEL
SWITCH

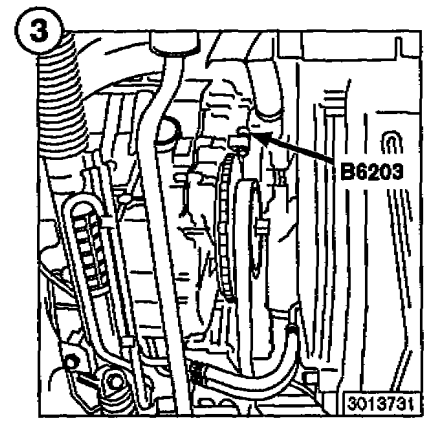
X107
X109
X163



2 M7
HEADLIGHT/
FOG LIGHT
WASHER PUMP

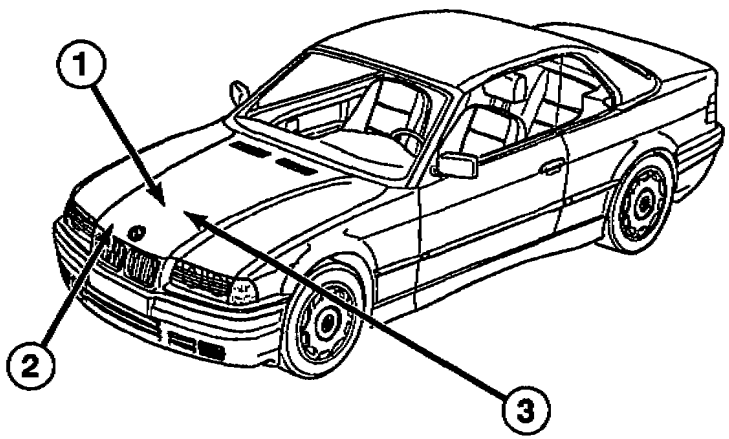
S21
ENGINE HOOD
SWITCH (DWA)

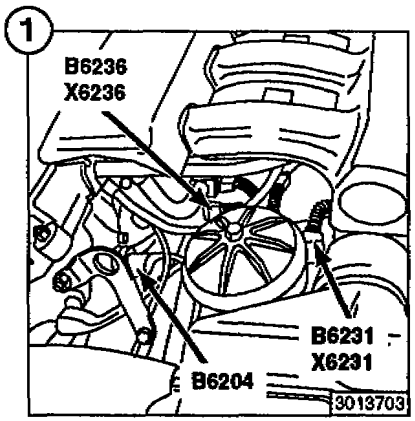
X123
X371



3 B6203
CRANKSHAFT
POSITION/RPM
SENSOR

COMPONENT LOCATION VIEWS



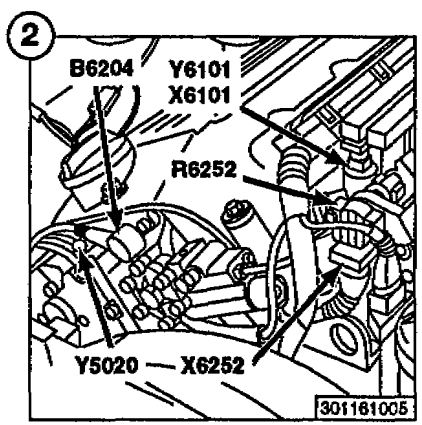


B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) — X6231, X6236

B6231 OIL PRESSURE SWITCH

B6236 ENGINE COOLANT TEMPERATURE SENSOR

325i

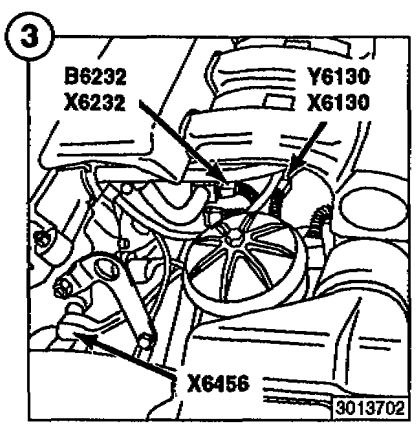


B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) — Y6101 CYL. 1 FUEL INJECTION VALVE

R6252 THROTTLE POSITION SENSOR — X6101, X6252

Y5020 VARIABLE CAMSHAFT CONTROL VALVE 1

M3 CDN



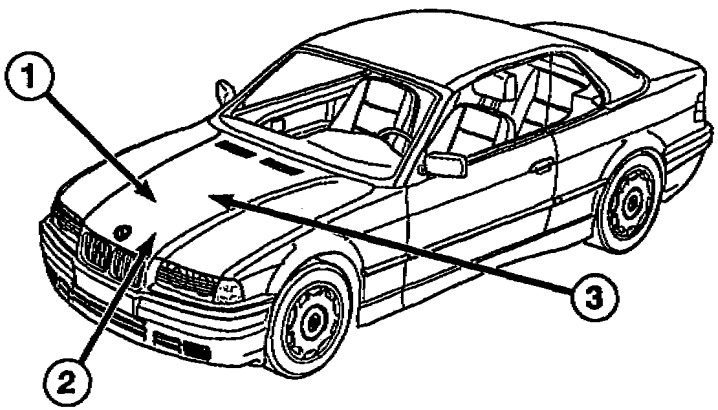
B6232 ENGINE COOLANT TEMPERATURE SENSOR

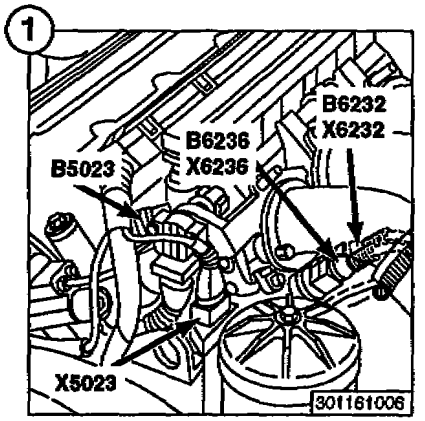
Y6130 IDLE SPEED CONTROL VALVE

X6456 GROUND

X6130, X6232

325i



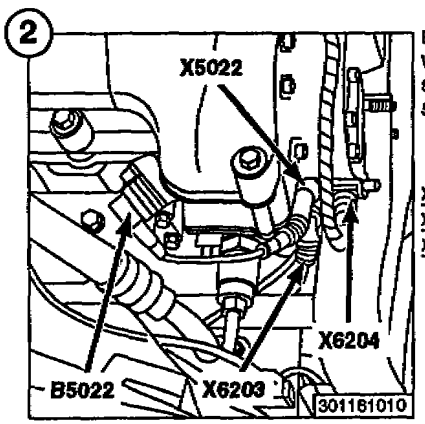


B5023 VARIABLE CAM-SHAFT CONTROL SENSOR 2 — X5023, X6232, X6238

B6232 ENGINE COOLANT TEMPERATURE SENSOR

B6236 ENGINE COOLANT TEMPERATURE SENSOR

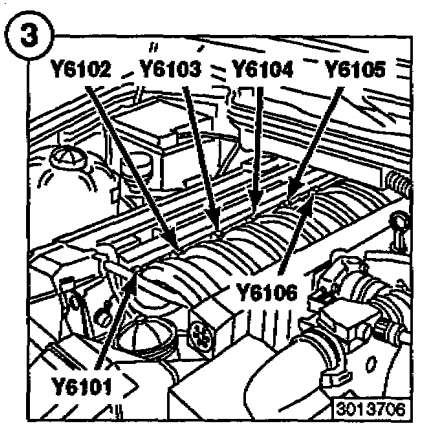
M3 CDN



B5022 VARIABLE CAM-SHAFT CONTROL SENSOR 1

X5022, X6203, X6204

M3 CDN



Y6101 CYL. 1 FUEL INJECTION VALVE

Y6102 CYL. 2 FUEL INJECTION VALVE

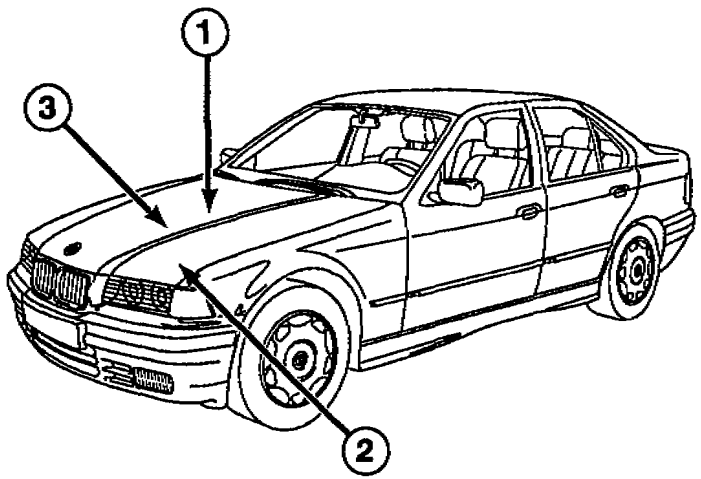
Y6103 CYL. 3 FUEL INJECTION VALVE

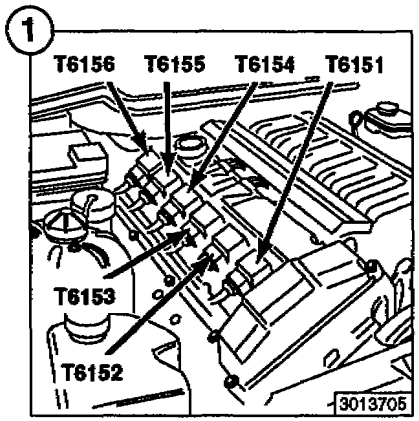
Y6104 CYL. 4 FUEL INJECTION VALVE

Y6105 CYL. 5 FUEL INJECTION VALVE

Y6106 CYL. 6 FUEL INJECTION VALVE

COMPONENT LOCATION VIEWS





T6151 CYL. 1 IGNITION COIL

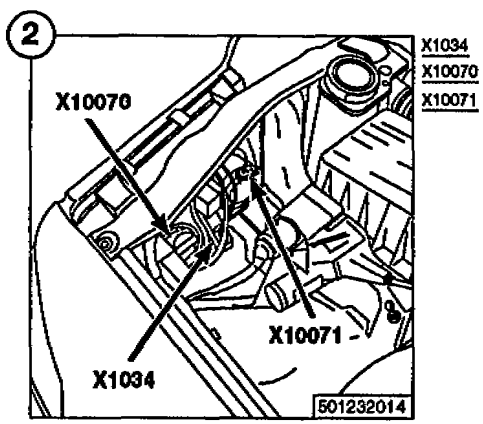
T6154 CYL. 4 IGNITION COIL

T6152 CYL. 2 IGNITION COIL

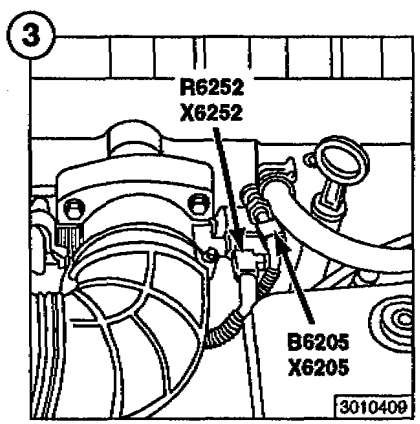
T6155 CYL. 5 IGNITION COIL

T6153 CYL. 3 IGNITION COIL

T6156 CYL. 6 IGNITION COIL



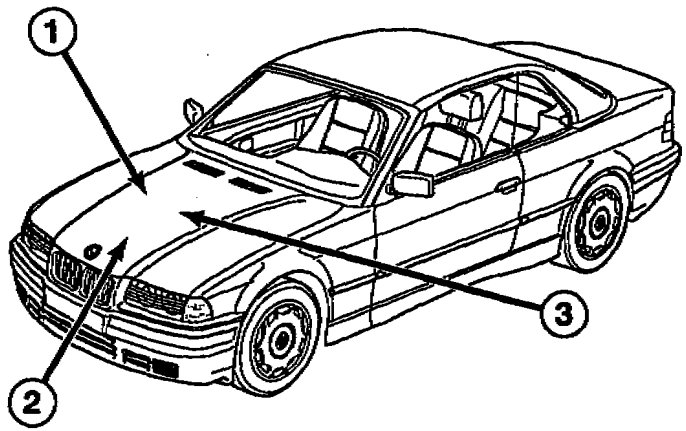
X1034
X10070
X10071

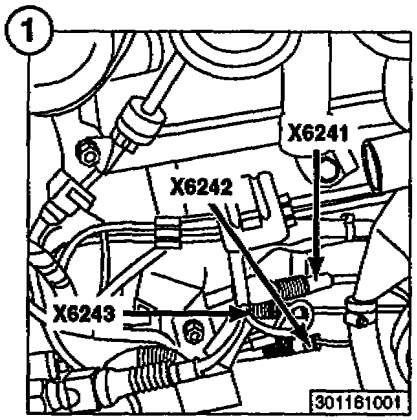


B6205 INTAKE AIR TEMPERATURE SENSOR

R6252 THROTTLE POSITION SENSOR

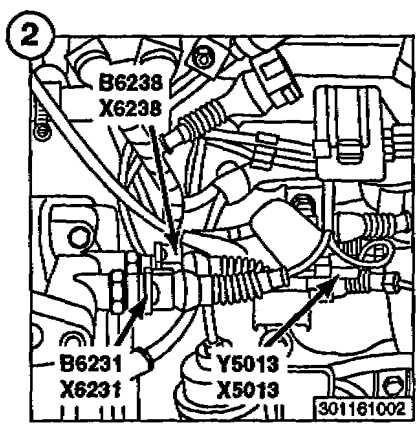
X6205
X6252





X6241
X6242
X6243

M3 CDN

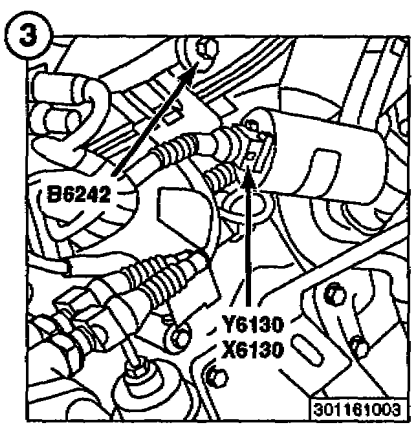


B6231 OIL PRESSURE SWITCH — X5013, X6231, X6238

B6238 OIL TEMPERATURE SENSOR

Y5013 CHANGE-OVER VALVE

M3 CDN

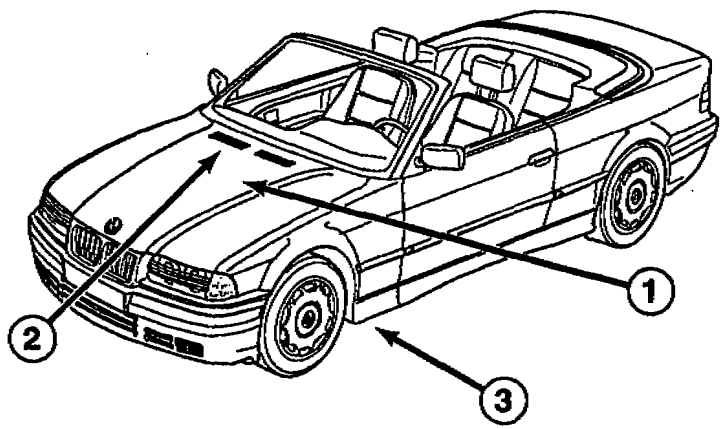


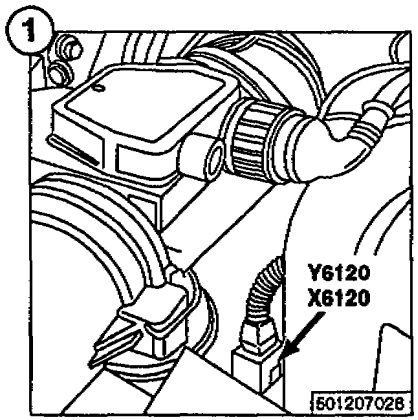
B6242 CYL. 3-4 KNOCK SENSOR

Y6130 IDLE SPEED CONTROL VALVE — X6130

M3 CDN

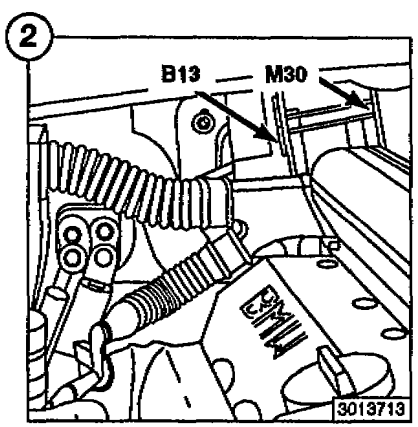
COMPONENT LOCATION VIEWS





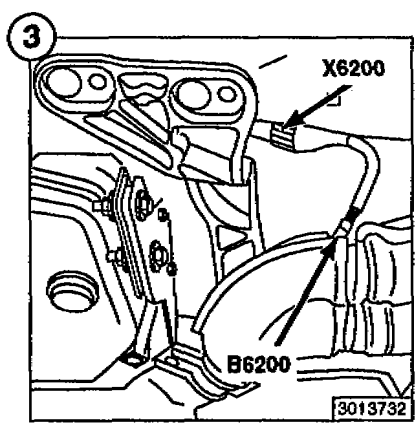
Y6120
EVAPORATIVE
EMISSION VALVE

X6120



B13
OUTSIDE
TEMPERATURE
SENSOR

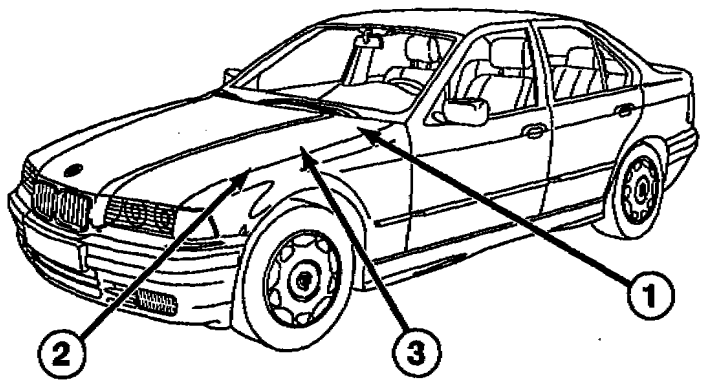
M30
BLOWER MOTOR

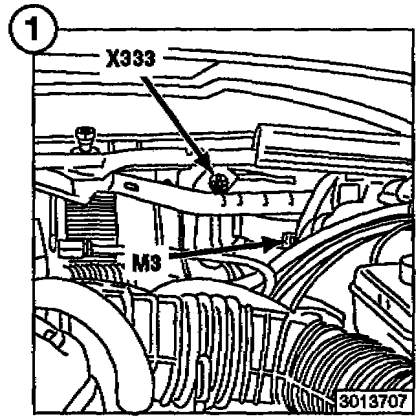


B6200
HEATED
OXYGEN SENSOR

X6200

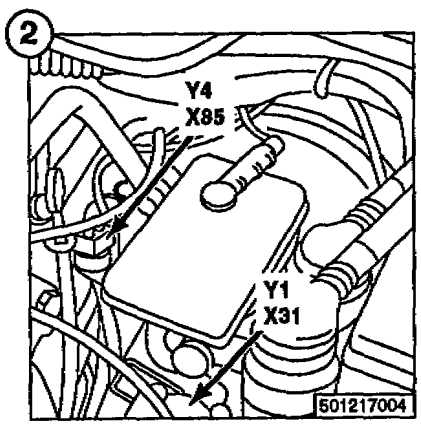
COMPONENT LOCATION VIEWS





M3
WIPER MOTOR

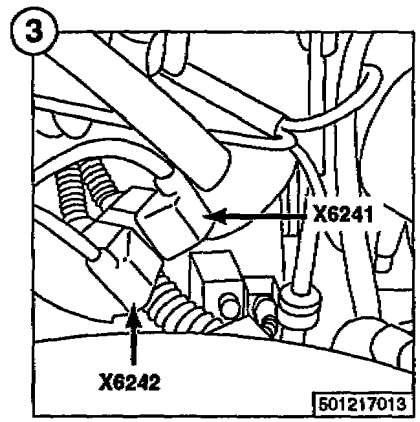
X333



Y1
ABS
HYDRAULIC UNIT

Y4
WATER VALVE
ASSEMBLY

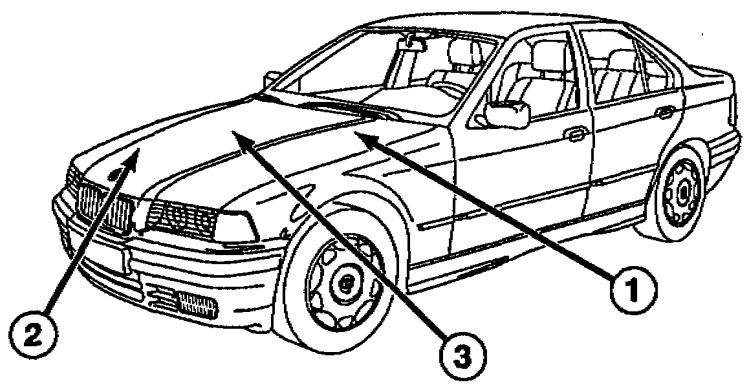
X31
X85

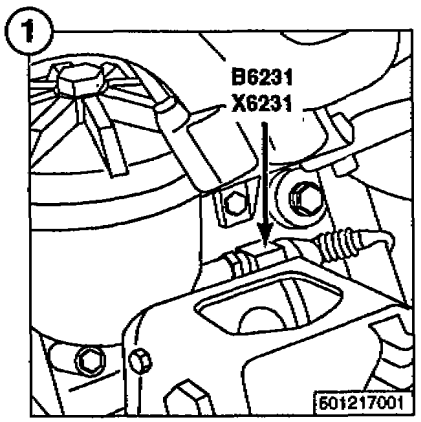


X6241

X6242

COMPONENT LOCATION VIEWS

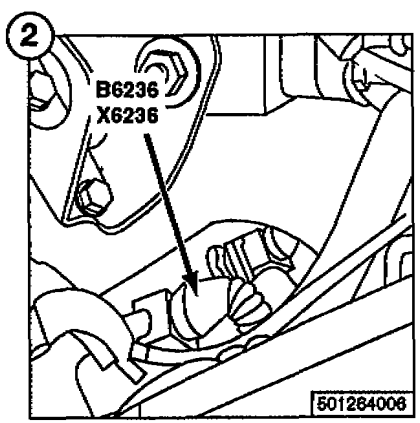




B6231
OIL PRESSURE SWITCH

X6231

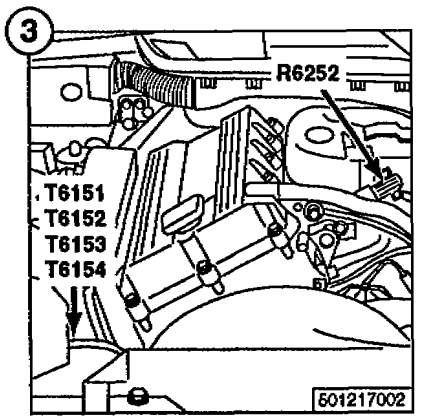
316I



B6236
ENGINE COOLANT TEMPERATURE SENSOR

X6236

316I



R6252
THROTTLE POSITION SENSOR

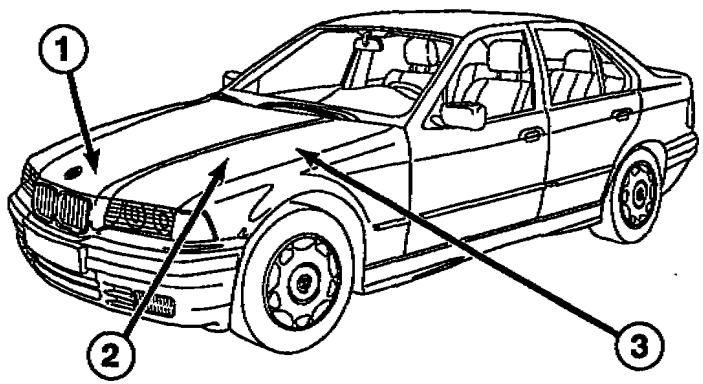
T6151
CYL. 1 IGNITION COIL

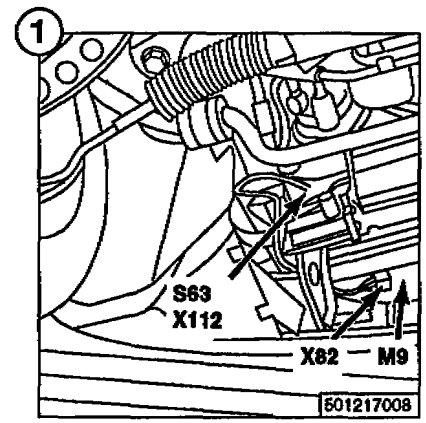
T6152
CYL. 2 IGNITION COIL

T6153
CYL. 3 IGNITION COIL

T6154
CYL. 4 IGNITION COIL

316I



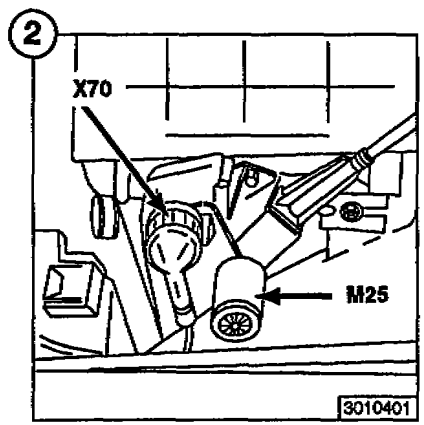


M9
AUXILIARY
FAN MOTOR

S63
ENGINE COOLANT
LEVEL SWITCH

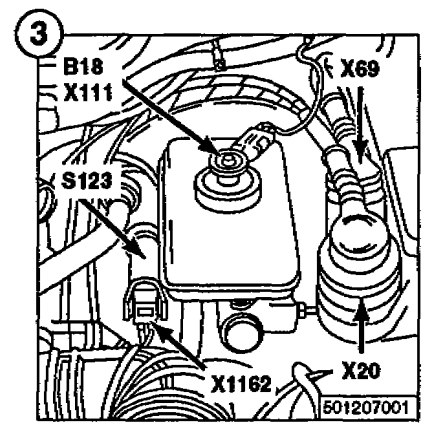
X62
X112

318I



M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70



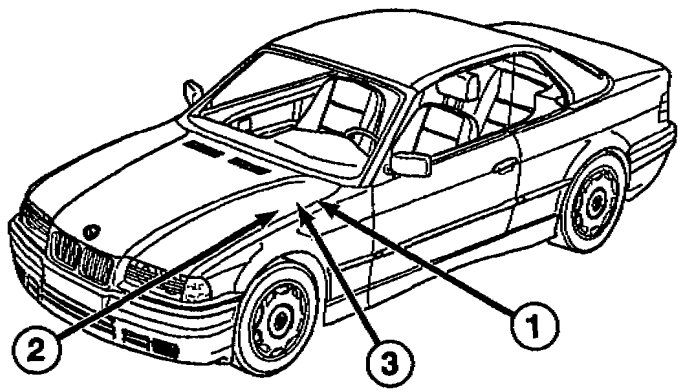
B18
BRAKE FLUID
LEVEL SWITCH

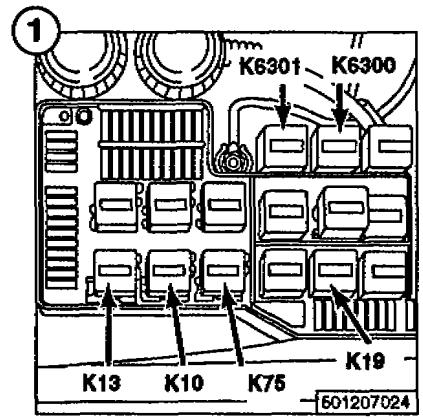
S123
ABS PEDAL
TRAVEL SENSOR

X20
X69
X111
X1162

325I

COMPONENT LOCATION VIEWS





K10 ABS RELAY

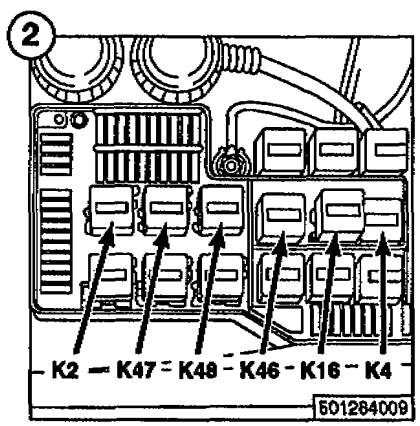
K13 REAR DEFOGGER RELAY

K19 COMPRESSOR CONTROL RELAY

K75 ABS PUMP MOTOR RELAY

K6300 ENGINE CONTROL MODULE RELAY

K6301 CYL. 1-6 FUEL PUMP RELAY



K2 HORN RELAY

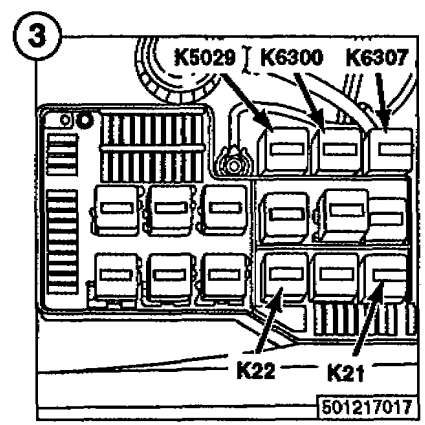
K4 BLOWER RELAY

K16 HAZARD FLASHER RELAY

K46 LOW BEAM LIGHT RELAY

K47 FRONT FOG LIGHT RELAY

K48 HIGH BEAM LIGHT RELAY



K21 NORMAL SPEED RELAY

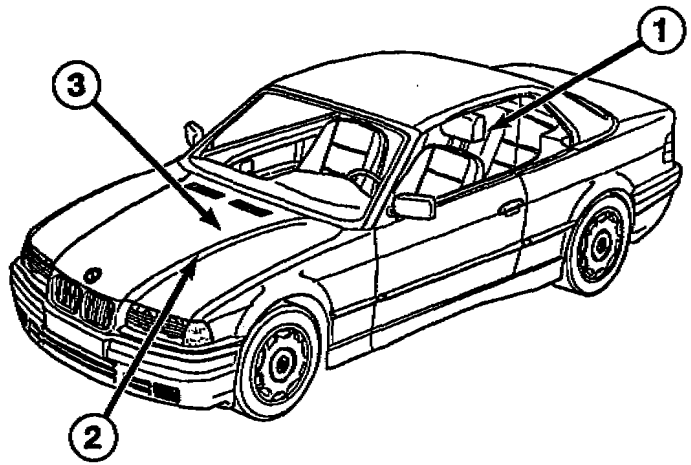
K22 HIGH SPEED RELAY

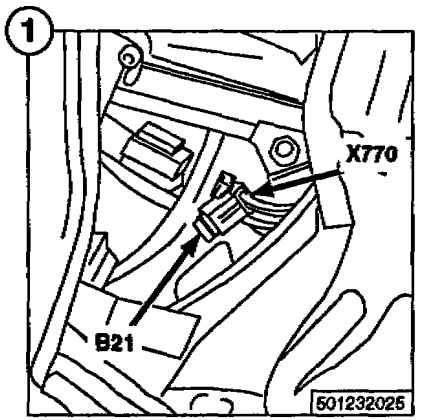
K5029 DOUBLE RELAY

K6300 ENGINE CONTROL MODULE RELAY

K6307 FUEL PUMP/START IDENTIFICATION RELAY

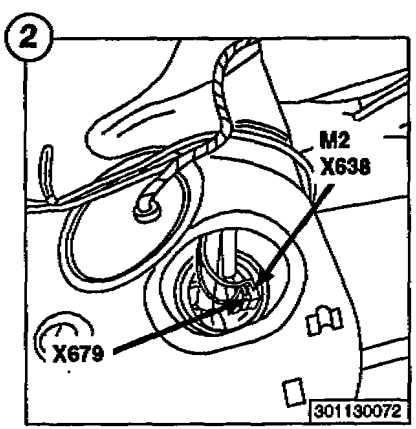
COMPONENT LOCATION VIEWS





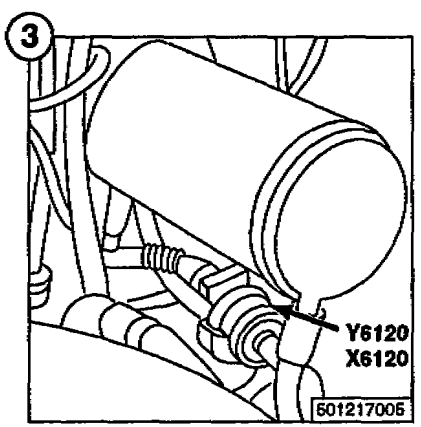
B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



M2
FUEL PUMP

X638
X679

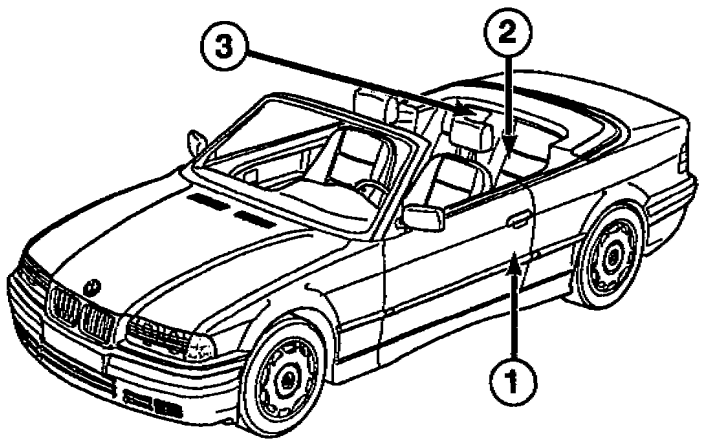


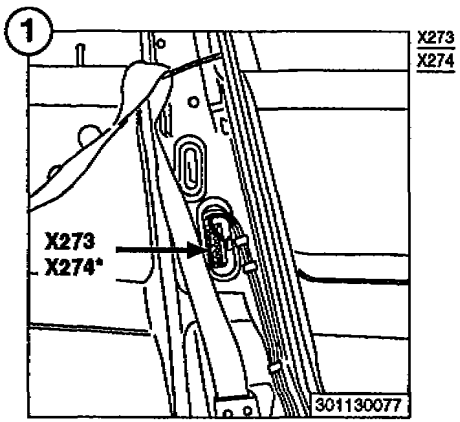
Y6120
EVAPORATIVE
EMISSION VALVE

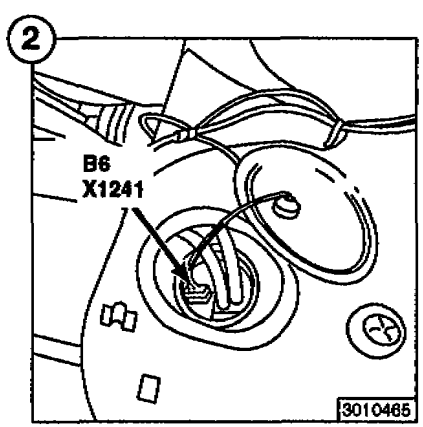
X6120

318I

COMPONENT LOCATION VIEWS

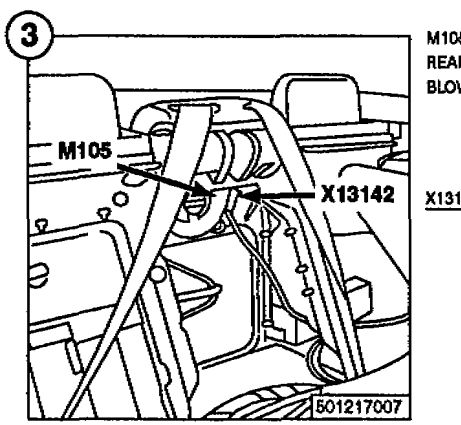






B6
FUEL LEVEL
SENSOR

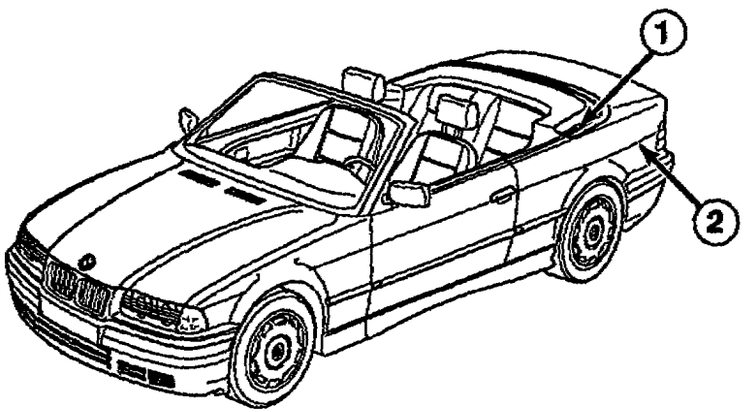
X1241

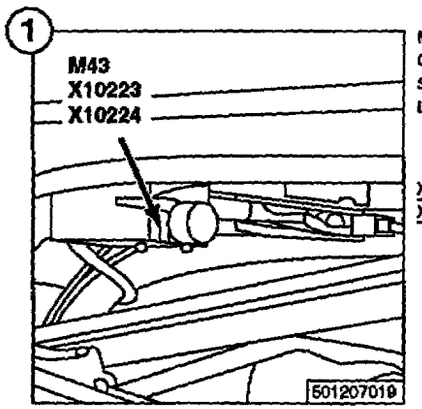


M105
REAR WINDOW
BLOWER

X13142

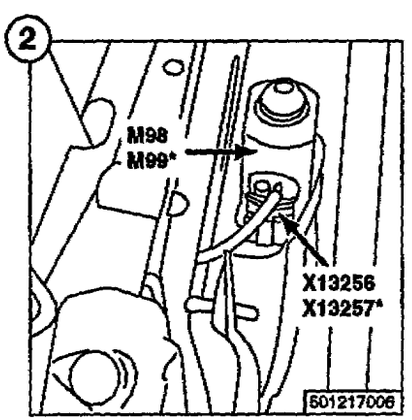
COMPONENT LOCATION VIEWS





M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

X10223
X10224



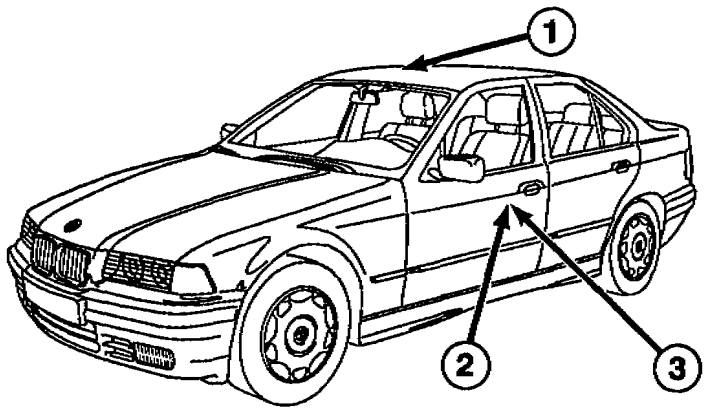
M98
LEFT REAR
WINDOW MOTOR

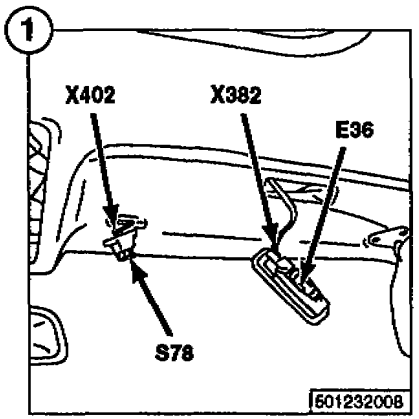
M99 *
RIGHT REAR
WINDOW MOTOR

X13256
X13257

*RH similar

COMPONENT LOCATION VIEWS

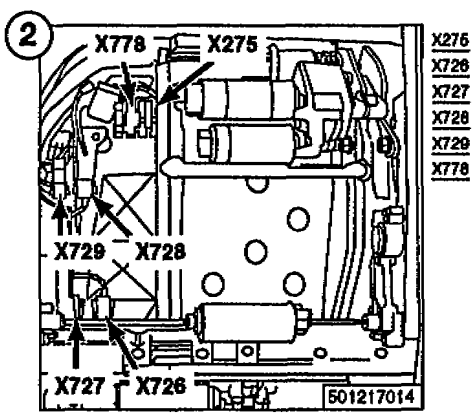




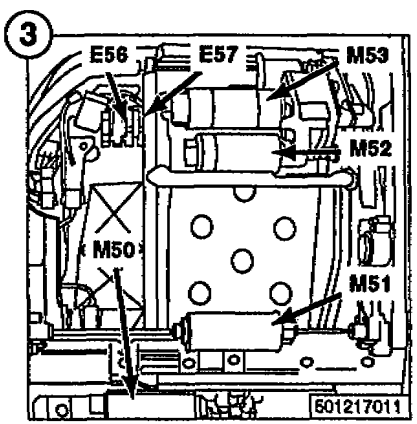
E36
PASSENGER'S
MAKEUP MIRROR
LIGHT

S78
PASSENGER'S
MAKEUP MIRROR
SWITCH

X382
X402



X275
X726
X727
X728
X729
X778



E56
DRIVER'S
SEATBACK
HEATER

M51
DRIVER'S SEAT
MOVEMENT MOTOR

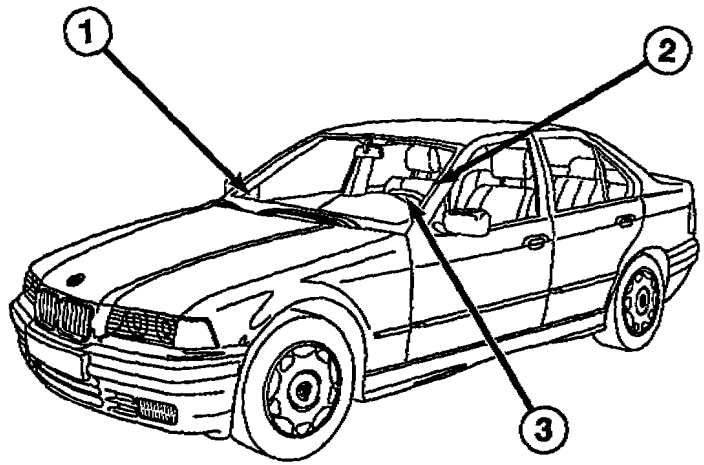
E57
DRIVER'S
SEAT HEATER

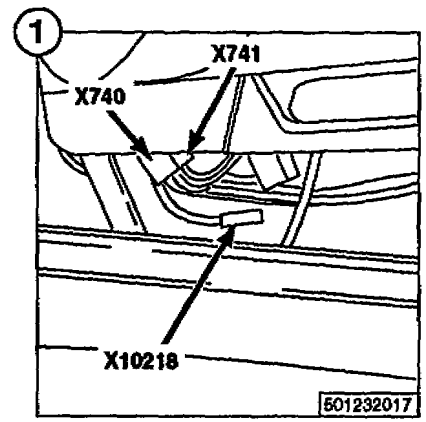
M52
DRIVER'S SEAT
HEIGHT MOTOR

M50
DRIVER'S
SEAT CUSHION
TILT MOTOR

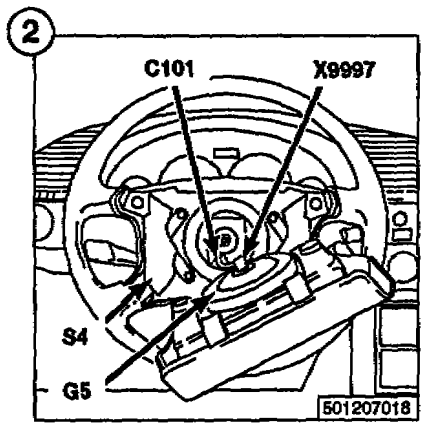
M53
DRIVER'S
SEATBACK
RECLINER MOTOR

COMPONENT LOCATION VIEWS





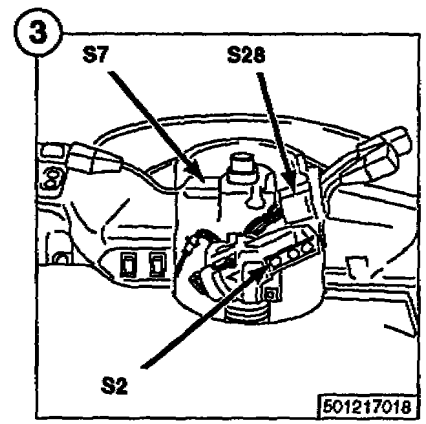
X740
X741
X10218



C101 X9997
CONTACT RING

G5
DRIVER S
AIR BAG
GENERATOR

S4
HORN SWITCH

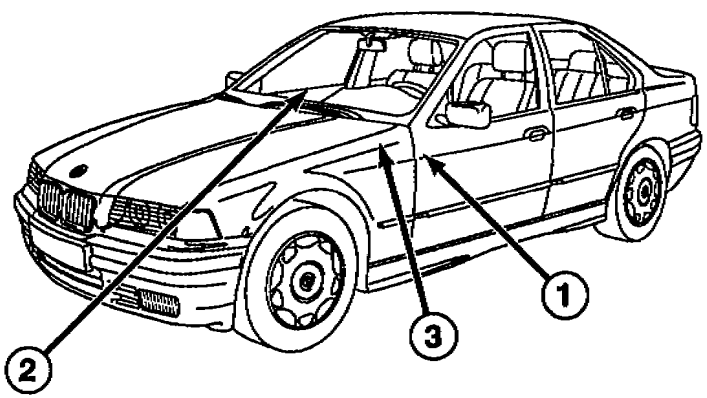


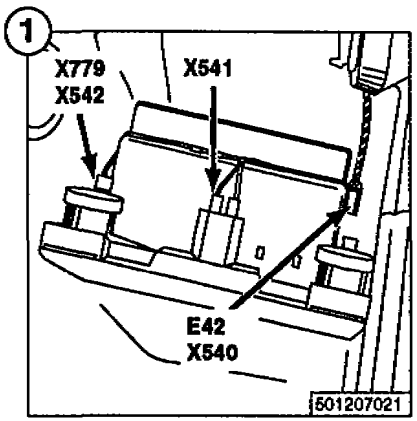
S2
IGNITION
SWITCH

S7
COMBINATION
SWITCH

S28
CRUISE CONTROL
SWITCH

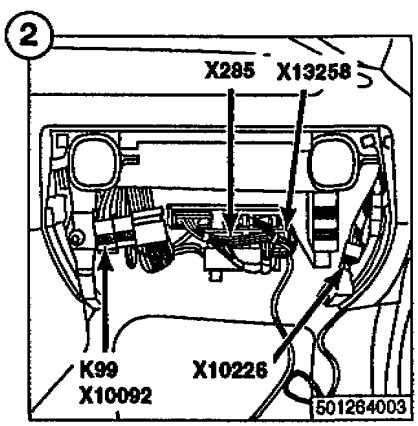
COMPONENT LOCATION VIEWS





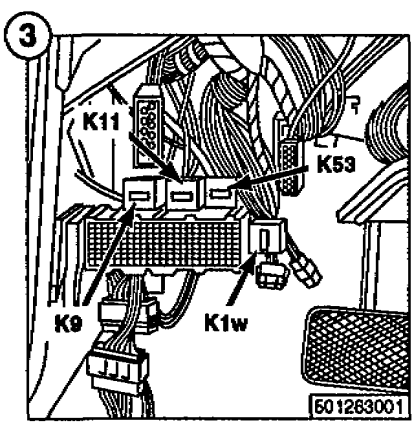
E42
GLOVE BOX
LIGHT

X540
X541
X542
X779



K99
REAR WINDOW
BLOWER RELAY

X285
X10092
X10226
X13258



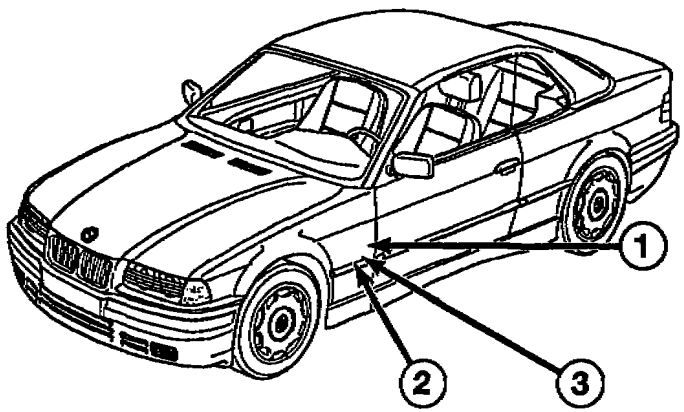
K1w
STARTER
IMMOBILIZATION
RELAY

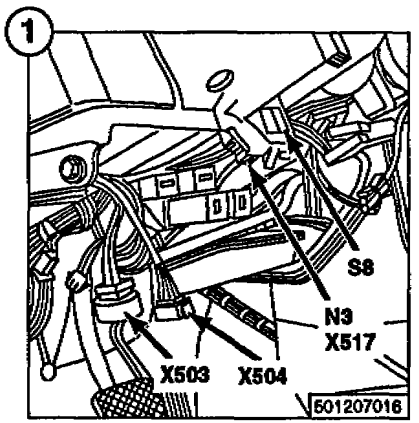
K53
WIPER MOTOR
RELAY

K9
UNLOADER
RELAY,
TERMINAL 15

K11
WIPER RELAY

COMPONENT LOCATION VIEWS

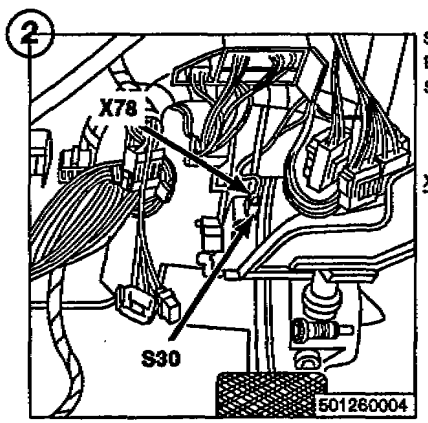




N3
DIMMER

S8
LIGHT SWITCH

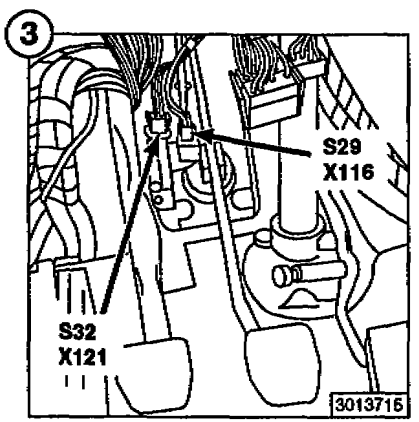
X503
X504
X517



S30
BRAKE LIGHT
SWITCH

X78

AUTOMATIC



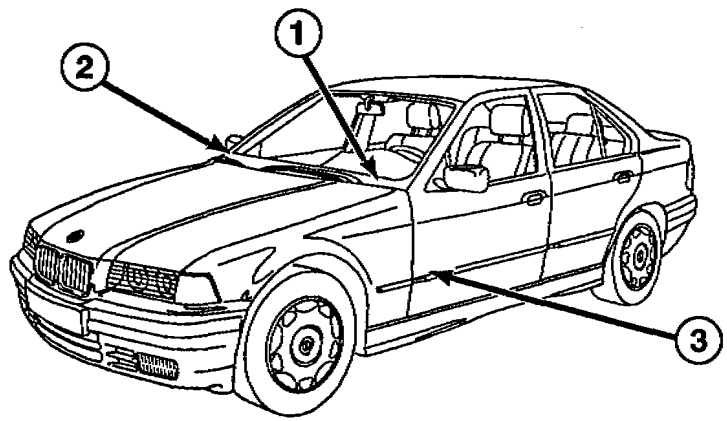
S29
BRAKE LIGHT
SWITCH

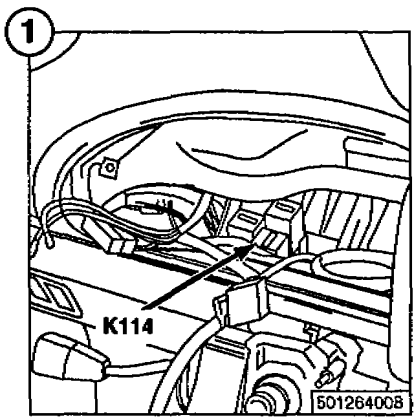
S32
CLUTCH SWITCH

X116
X121

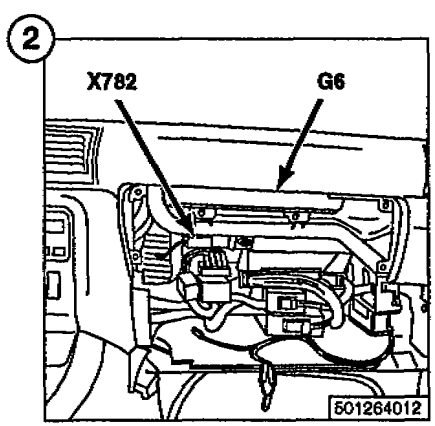
MANUAL

COMPONENT LOCATION VIEWS



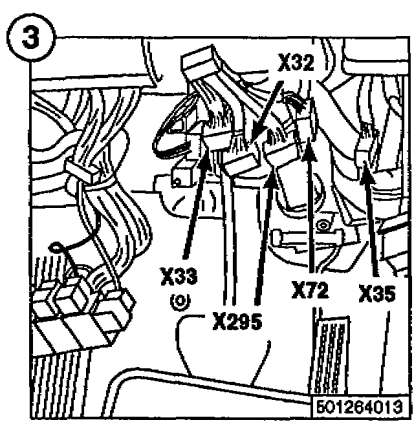


K114
COMFORT RELAY

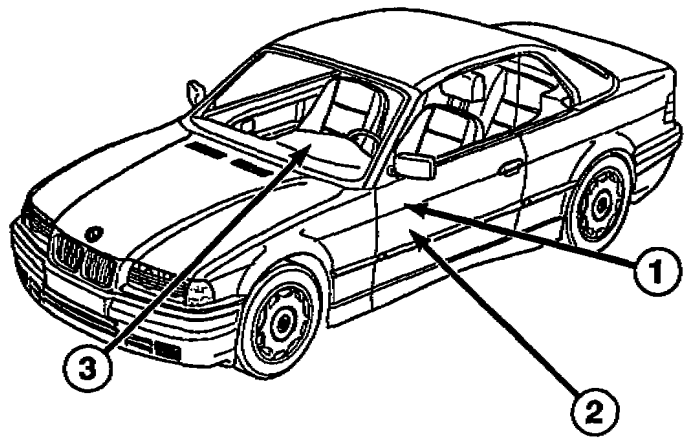


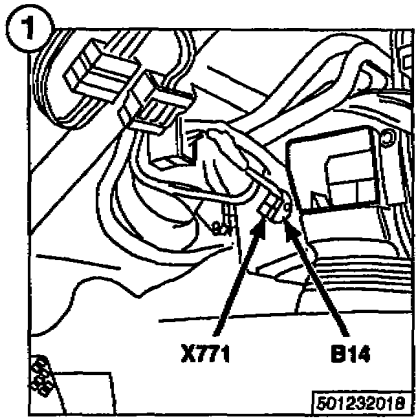
G6
PASSENGER'S
AIR BAG GAS
GENERATOR I

X762



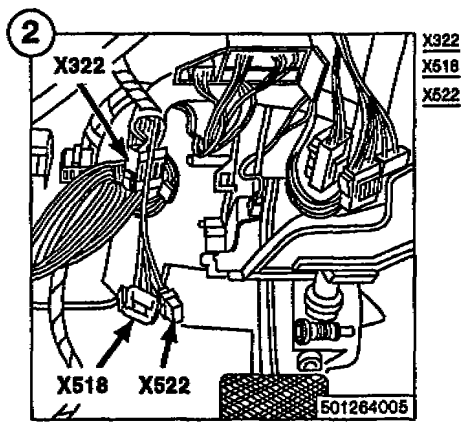
X32
X33
X35
X72
X295



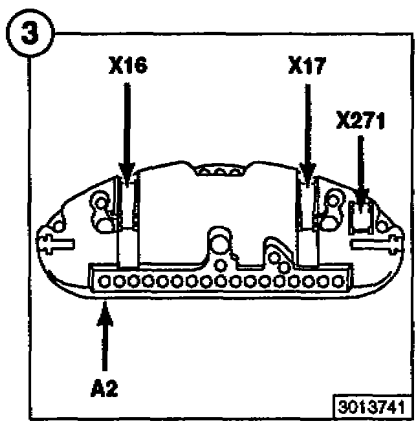


B14
EVAPORATOR
TEMPERATURE
SENSOR

X771



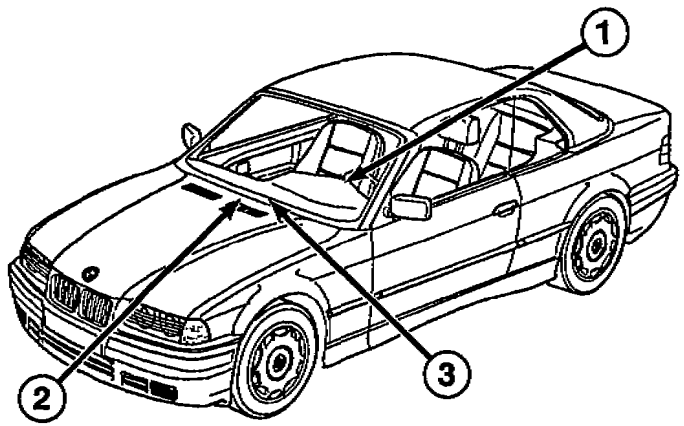
X322
X518
X522

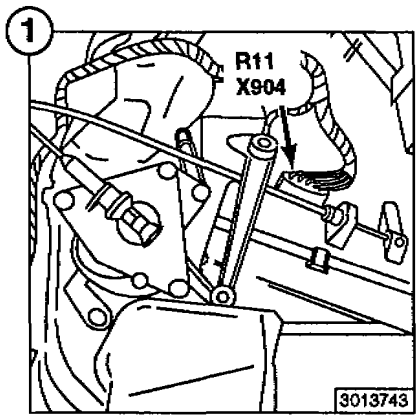


A2
INSTRUMENT
CLUSTER

X16
X17
X271

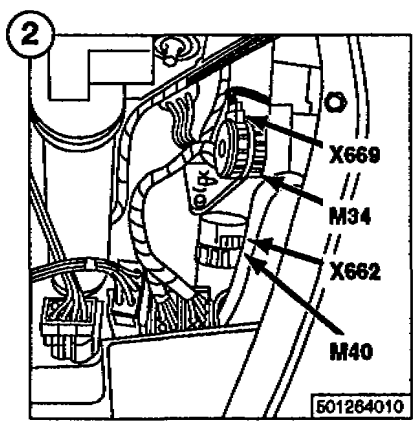
COMPONENT LOCATION VIEWS





R11
BLOWER
RESISTORS

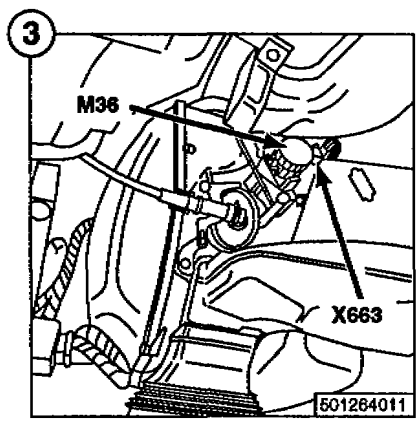
X904



M34
DASH VENT
MIXING FLAP
MOTOR

M40
RECIRCULATION
FLAP MOTOR

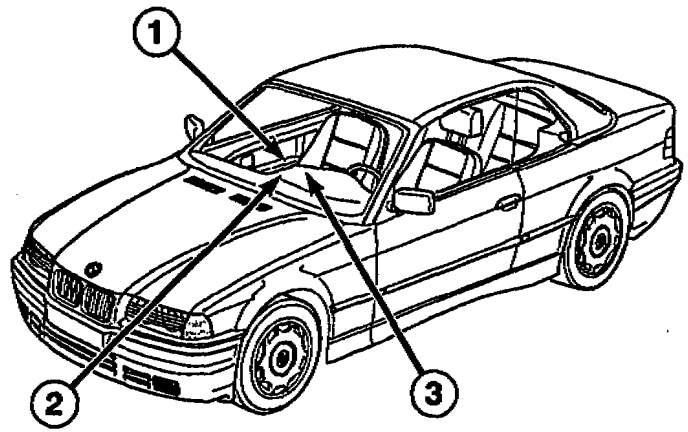
X662
X669

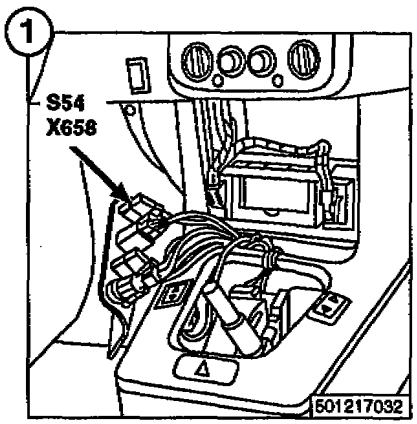


M36
FRESH AIR
FLAP MOTOR

X663

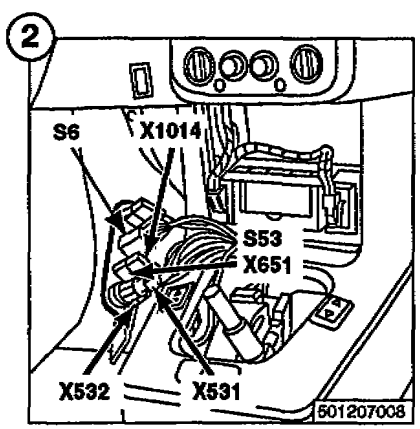
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

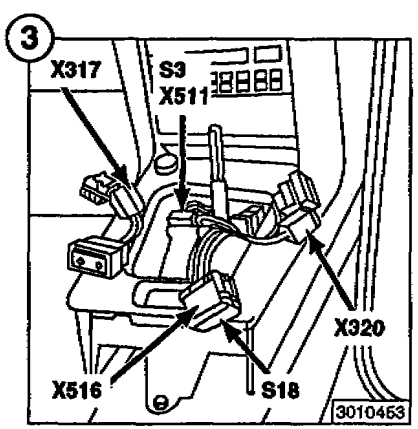
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014

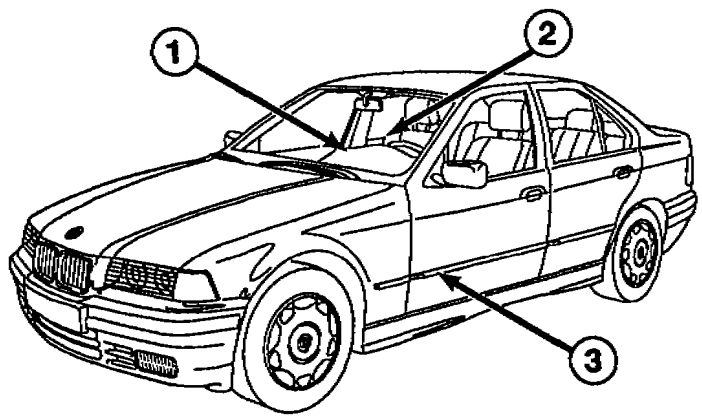


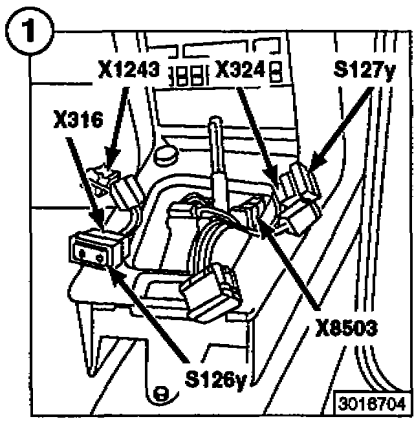
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

S18
HAZARD SWITCH

X317
X320
X511
X516

COMPONENT LOCATION VIEWS

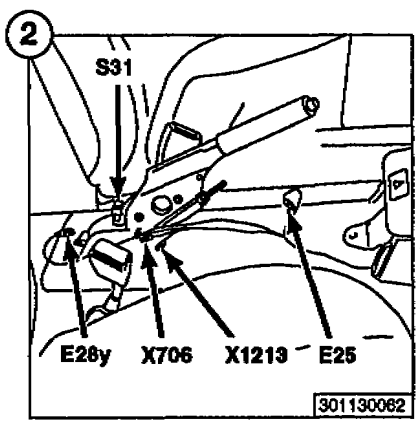




S126y
DRIVER'S
POWER
WINDOW SWITCH

S127y
PASSENGER'S
POWER WINDOW
SWITCH

X316
X324
X1243
X8503

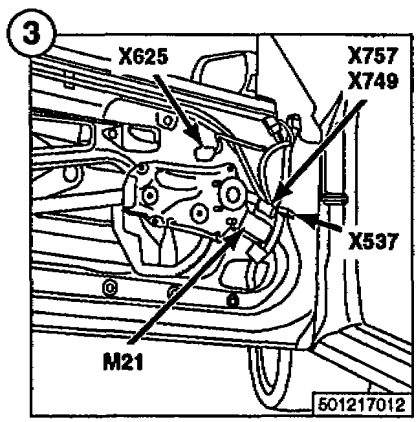


E25
FRONT
ASHTRAY LIGHT

X706
X1213

E28y
REAR
ASHTRAY LIGHT

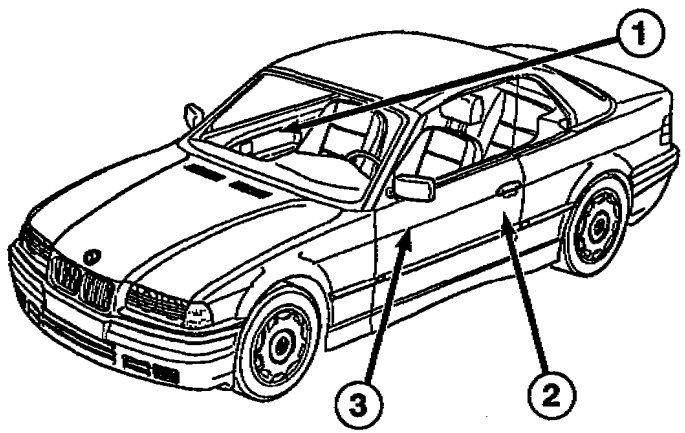
S31
PARK BRAKE
SWITCH

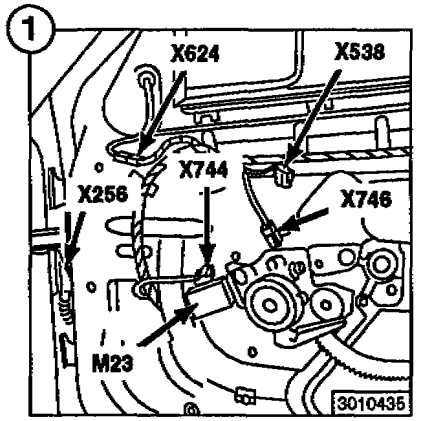


M21
DRIVER'S
WINDOW MOTOR

X537
X625
X749
X757

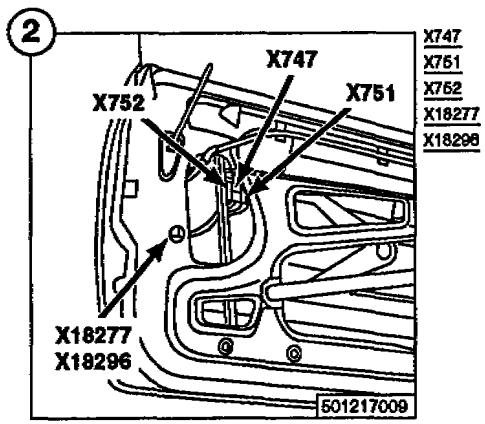
COMPONENT LOCATION VIEWS



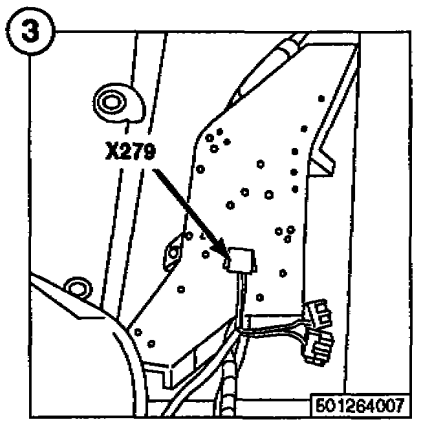


M23
PASSENGER'S
WINDOW MOTOR

X256
X538
X824
X744
X746

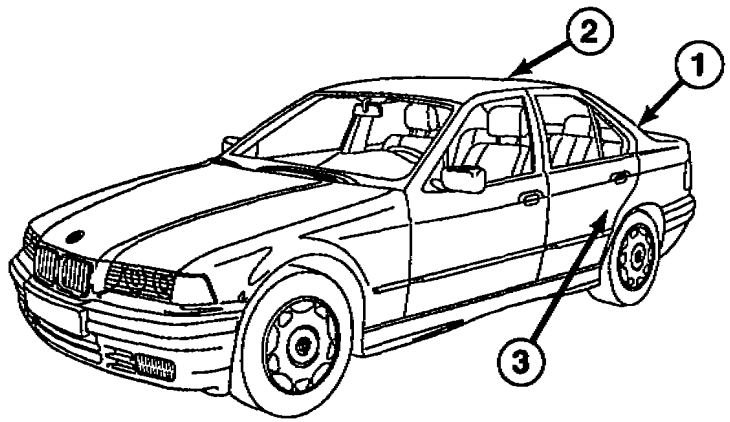


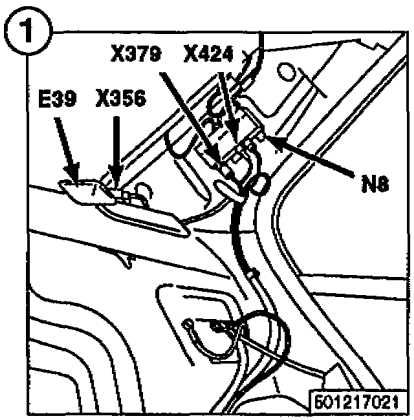
X747
X751
X752
X18277
X18296



X279

COMPONENT LOCATION VIEWS

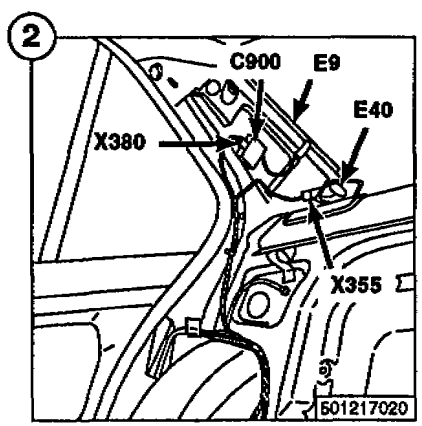




E39
LEFT REAR
INTERIOR LIGHT

N8
ANTENNA
AMPLIFIER
AM/FM

X356
X379
X424

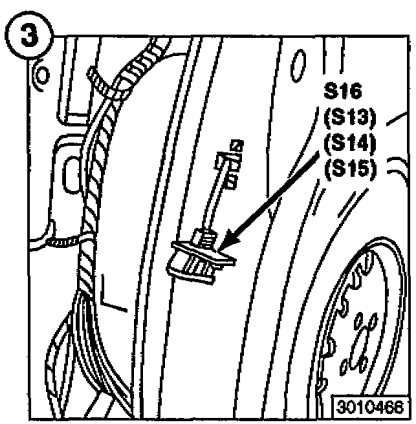


C900
SUPPRESSION
FILTER

X355
X380

E9
REAR
DEFOGGER 1

E40
RIGHT REAR
INTERIOR LIGHT



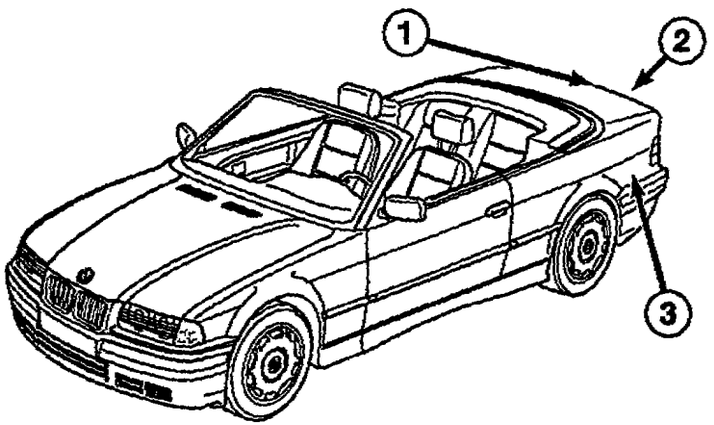
S13
PASSENGER'S
DOOR JAMB
SWITCH

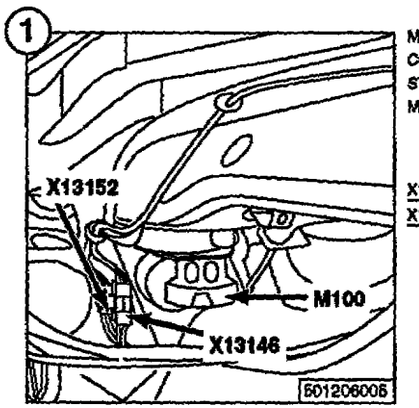
S16
LEFT REAR
DOOR JAMB
SWITCH

S14
DRIVER'S
DOOR JAMB
SWITCH

S15
REAR RIGHT
DOOR JAMB
SWITCH

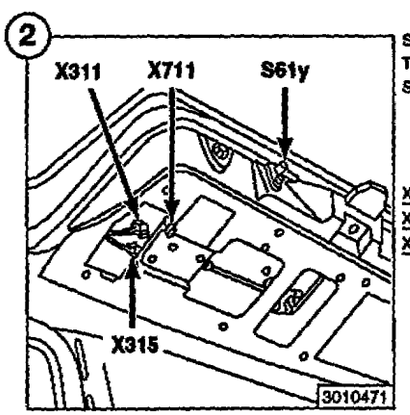
COMPONENT LOCATION VIEWS





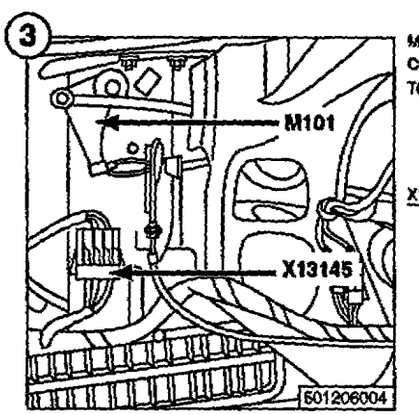
M100
CONVERTIBLE TOP
STORAGE LID
MOTOR

X13146
X13152



S61y
TRUNK LIGHT
SWITCH

X311
X316
X711



M101
CONVERTIBLE
TOP MOTOR

X13145

SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X181–X276	FRONT	8000.0–02
X313–X314	REAR	8000.0–03
X313–X314	REAR, CONVERTIBLE	8000.0–04
X428–X481	REAR	8000.0–03
X428	REAR, CONVERTIBLE	8000.0–04
X441–X456	REAR, CONVERTIBLE	8000.0–04
X460–X462	REAR, CONVERTIBLE	8000.0–04
X465–X481	REAR, CONVERTIBLE	8000.0–04
X530–X595	FRONT	8000.0–02
X805	REAR	8000.0–03
X805	REAR, CONVERTIBLE	8000.0–04
X824–X830	RADIO	NOT SHOWN
X849–X851	DRIVER'S DOOR	NOT SHOWN
X876–X878	RADIO	NOT SHOWN
X906	IHKR	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015–X1164	FRONT	8000.0–02
X1167	REAR	8000.0–03
X1168–X1192	FRONT	8000.0–02
X1212–X1218	REAR	8000.0–03
X1212–X1238	REAR, CONVERTIBLE	8000.0–04
X1225–X1233	FRONT	8000.0–02
X1226–X1235	REAR	8000.0–03
X1258	FRONT	8000.0–02
X1299	REAR	8000.0–03
X1382–X1383	RADIO	NOT SHOWN
X1387–X1396	REAR	8000.0–03
X1387–X1396	REAR, CONVERTIBLE	8000.0–04

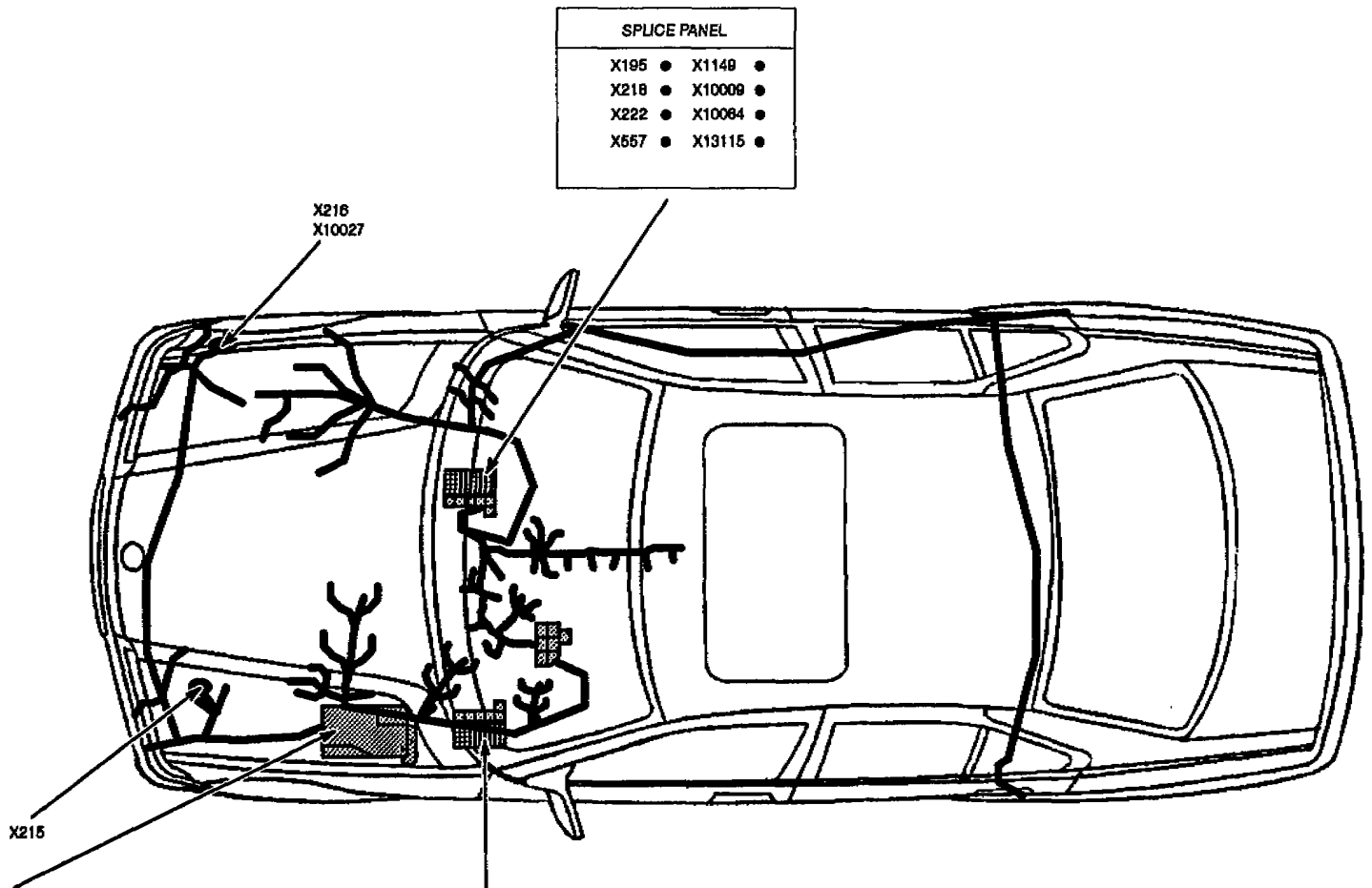
SPLICE	HARNESS	PAGE NUMBER
X5018–X5035	S50 ENGINE	8000.0–06
X6410	M42/M43 ENGINE	8000.0–05
X6410–X6492	S50 ENGINE	8000.0–06
X6410	M50 ENGINE	8000.0–07
X6411	M50 ENGINE	8000.0–07
X6458–X6492	M42/M43 ENGINE	8000.0–05
X6458–X6461	M50 ENGINE	8000.0–07
X6475	M50 ENGINE	8000.0–07
X6491	M50 ENGINE	8000.0–07
X6492	M50 ENGINE	8000.0–07
X6810–X6866	M42/M43 ENGINE	8000.0–05
X6810–X6866	S50 ENGINE	8000.0–06
X6810	M50 ENGINE	8000.0–07
X6820–6823	M50 ENGINE	8000.0–07
X6830–X6831	M50 ENGINE	8000.0–07
X6835–X6836	M50 ENGINE	8000.0–07
X6863–X6866	M50 ENGINE	8000.0–07
X6900–X6906	M50 ENGINE	8000.0–07
X6900–X6906	S50 ENGINE	8000.0–06
X8004	M50 ENGINE	8000.0–07
X8004	S50 ENGINE	8000.0–06
X8004–X8576	M42/M43 ENGINE	8000.0–05
X8007	M50 ENGINE	8000.0–07
X8010	M50 ENGINE	8000.0–07
X8015	M50 ENGINE	8000.0–07
X8022	M50 ENGINE	8000.0–07
X8025	M50 ENGINE	8000.0–07
X8042	M50 ENGINE	8000.0–07

SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X8051	M50 ENGINE	8000.0–07
X8056	M50 ENGINE	8000.0–07
X8065	M50 ENGINE	8000.0–07
X8071–8074	M50 ENGINE	8000.0–07
X8084	M50 ENGINE	8000.0–07
X10007–X10100	FRONT	8000.0–02
X10118	REAR, CONVERTIBLE	8000.0–04
X10251–10252	FRONT	8000.0–02
X10120–X10192	FRONT	8000.0–02
X10189–X10229	REAR, CONVERTIBLE	8000.0–04
X13002–X13011	REAR	8000.0–03
X13002–X13011	REAR, CONVERTIBLE	8000.0–04
X13021–X13115	FRONT	8000.0–02
X13007–X13273	REAR, CONVERTIBLE	8000.0–04
X18160–X18161	IHKR	NOT SHOWN
X18165	FRONT	8000.0–02
X18251	DRIVER'S DOOR	NOT SHOWN
X18252	PASSENGER'S DOOR	NOT SHOWN
X18253	DRIVER'S DOOR	NOT SHOWN
X18254–X18284	PASSENGER'S DOOR	NOT SHOWN
X18783–X18784	FRONT	8000.0–02
X18785–X18799	REAR, CONVERTIBLE	8000.0–04
X19513–X19514	RADIO	NOT SHOWN
X69008–X69009	S50 ENGINE	8000.0–06

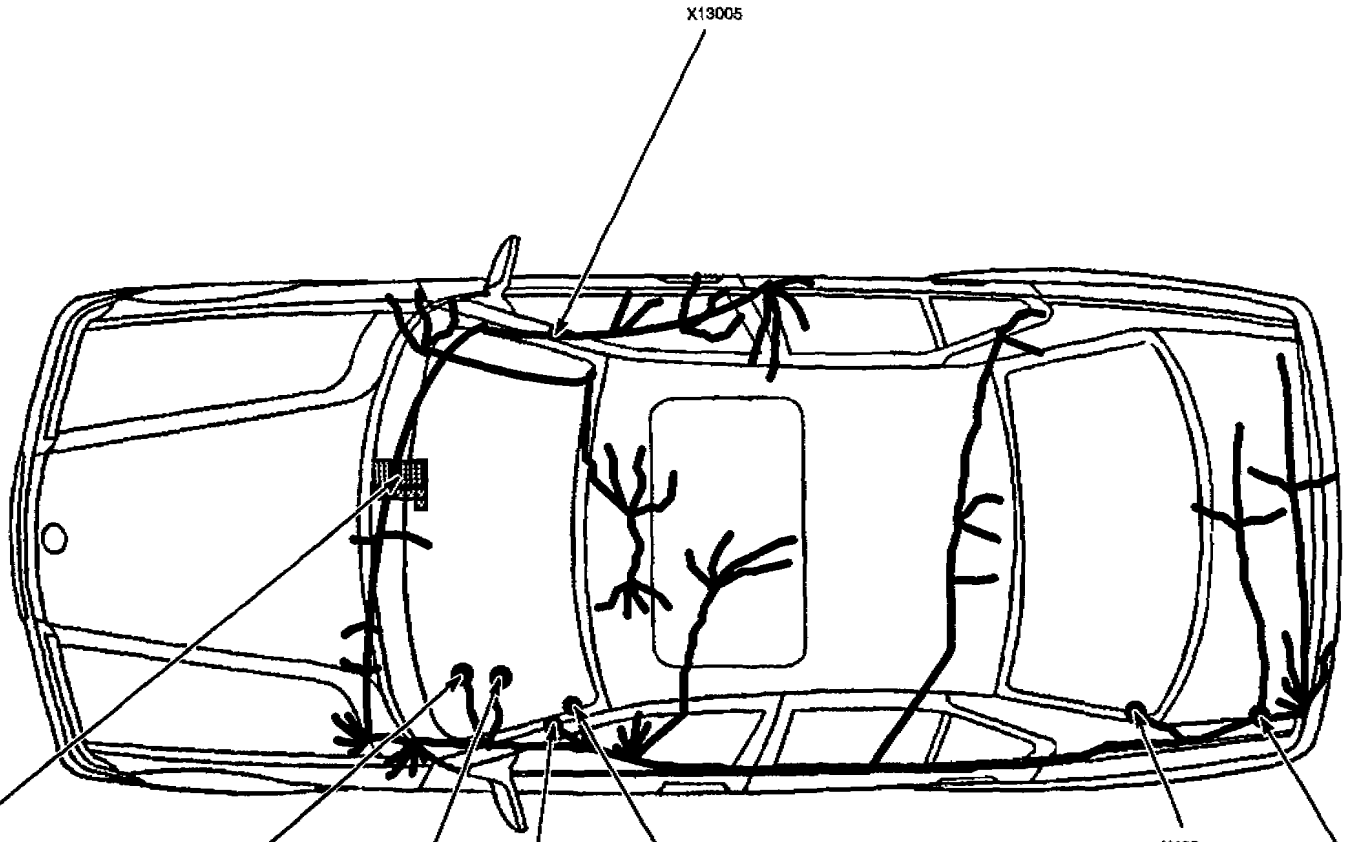
SPLICE LOCATION VIEWS

FRONT HARNESS



SPLICE LOCATION VIEWS

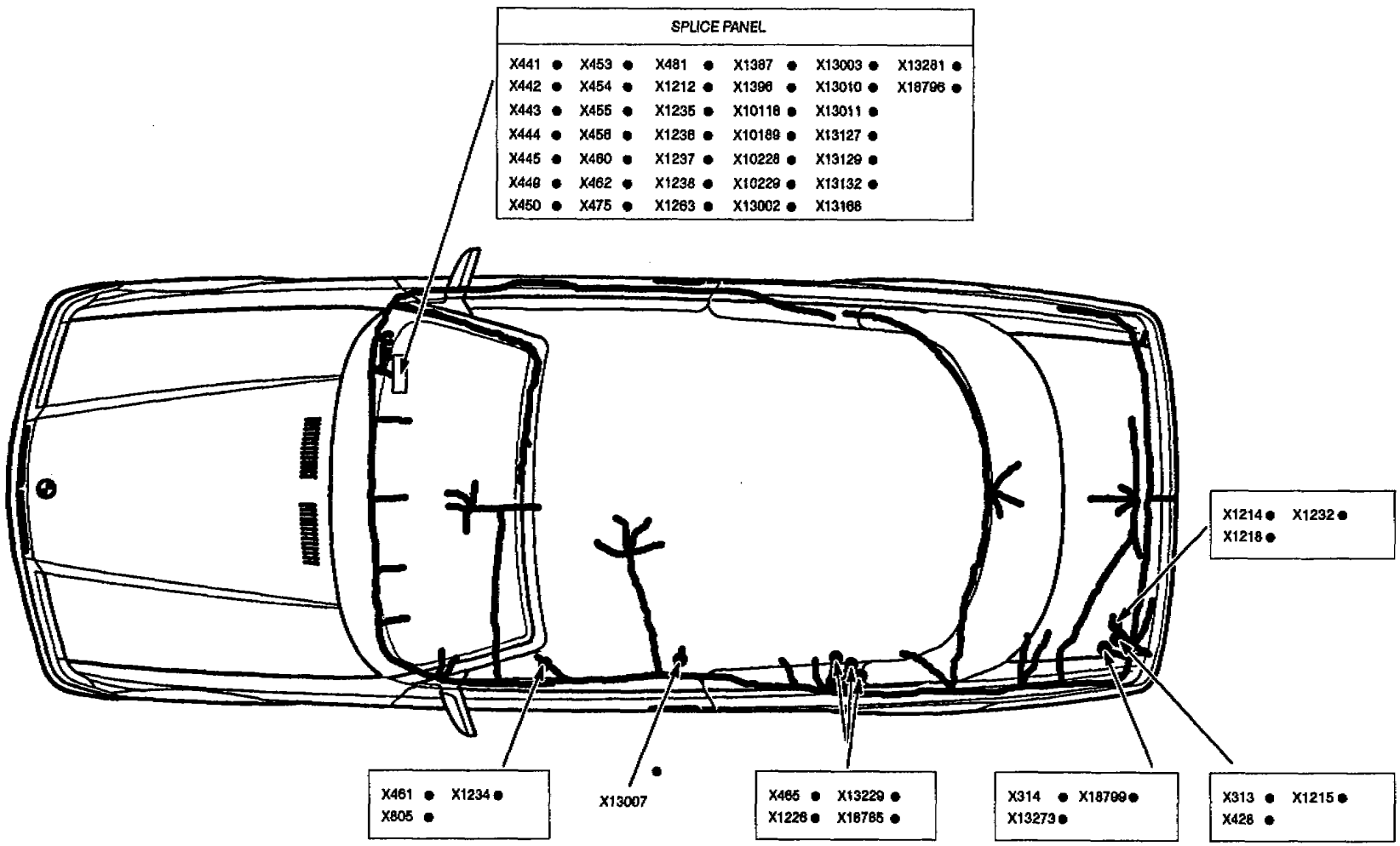
REAR HARNESS



SPLICE PANEL		
X441 ●	X462 ●	X1396 ●
X442 ●	X475 ●	X13002 ●
X443 ●	X481 ●	X13003 ●
X444 ●	X1212 ●	X13010 ●
X445 ●	X1235 ●	X13011 ●
X449 ●	X1299 ●	
X450 ●	X1387 ●	

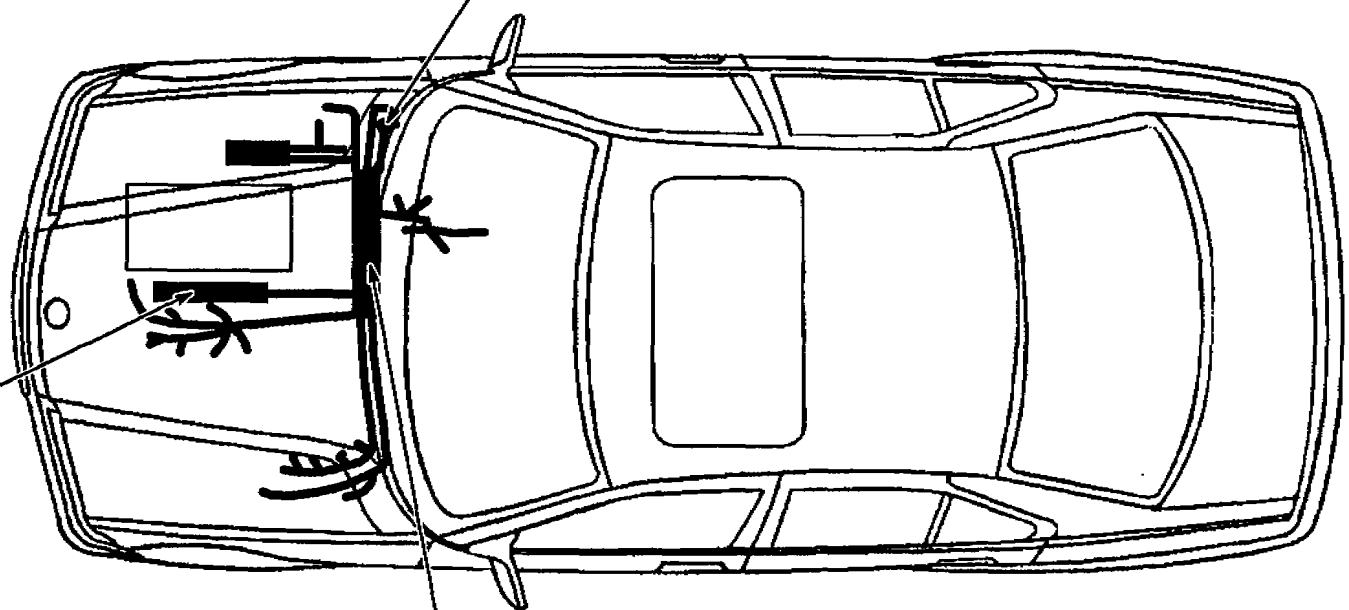
SPLICE LOCATION VIEWS

REAR WIRING HARNESS - CONVERTIBLE



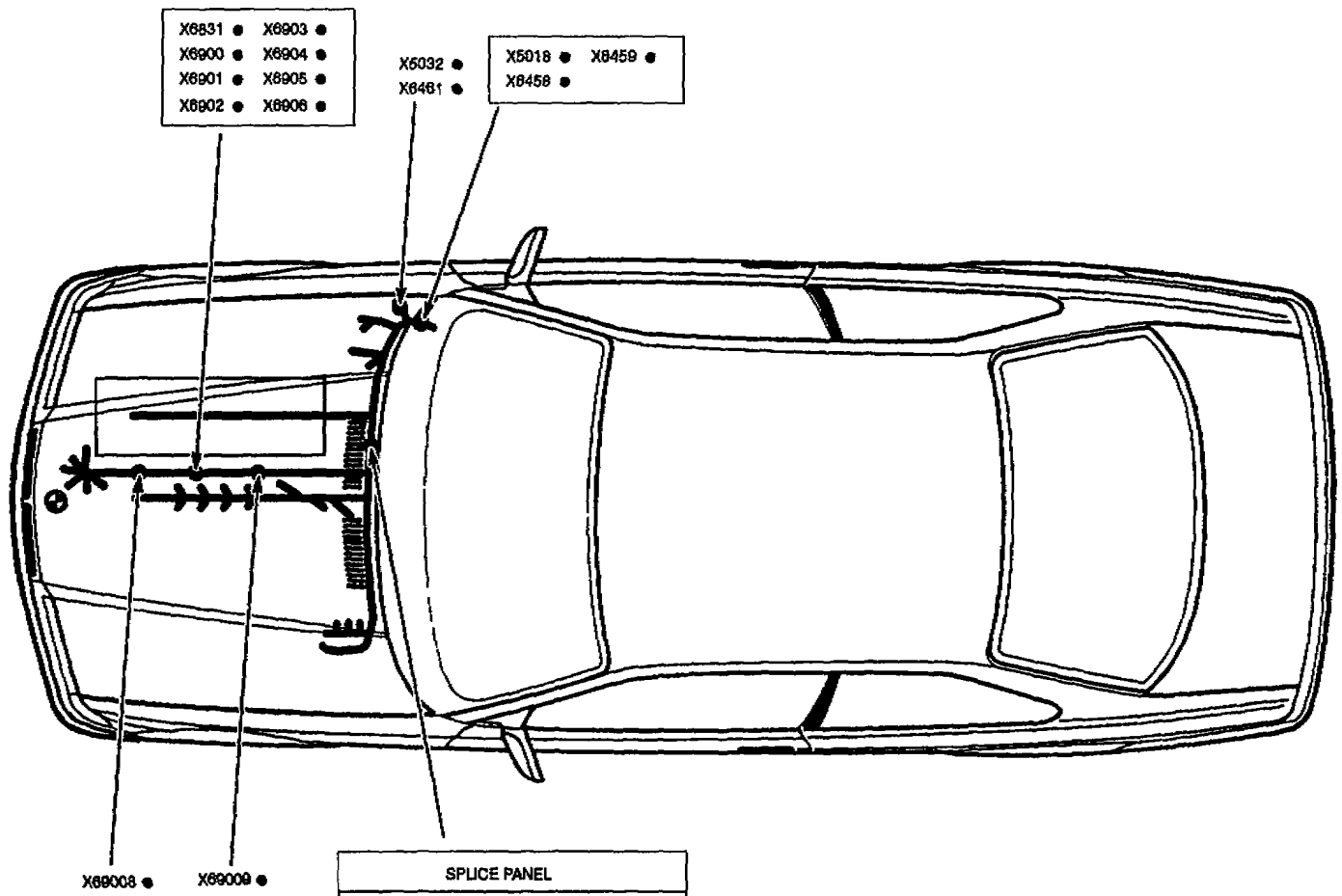
SPLICE LOCATION VIEWS

ENGINE HARNESS M42/M43



SPLICE LOCATION VIEWS

ENGINE HARNESS S50



SPLICE PANEL			
X5035	X6462	X6490	X6822
X6410	X6464	X6491	X6835
X6411	X6465	X6492	X6863
X6413	X6466	X6810	X6866
X6463	X6467	X6811	X8004
X6475	X6468	X6820	
X6480	X6469	X6821	

SPLICE LOCATION VIEWS

M50 ENGINE HARNESS

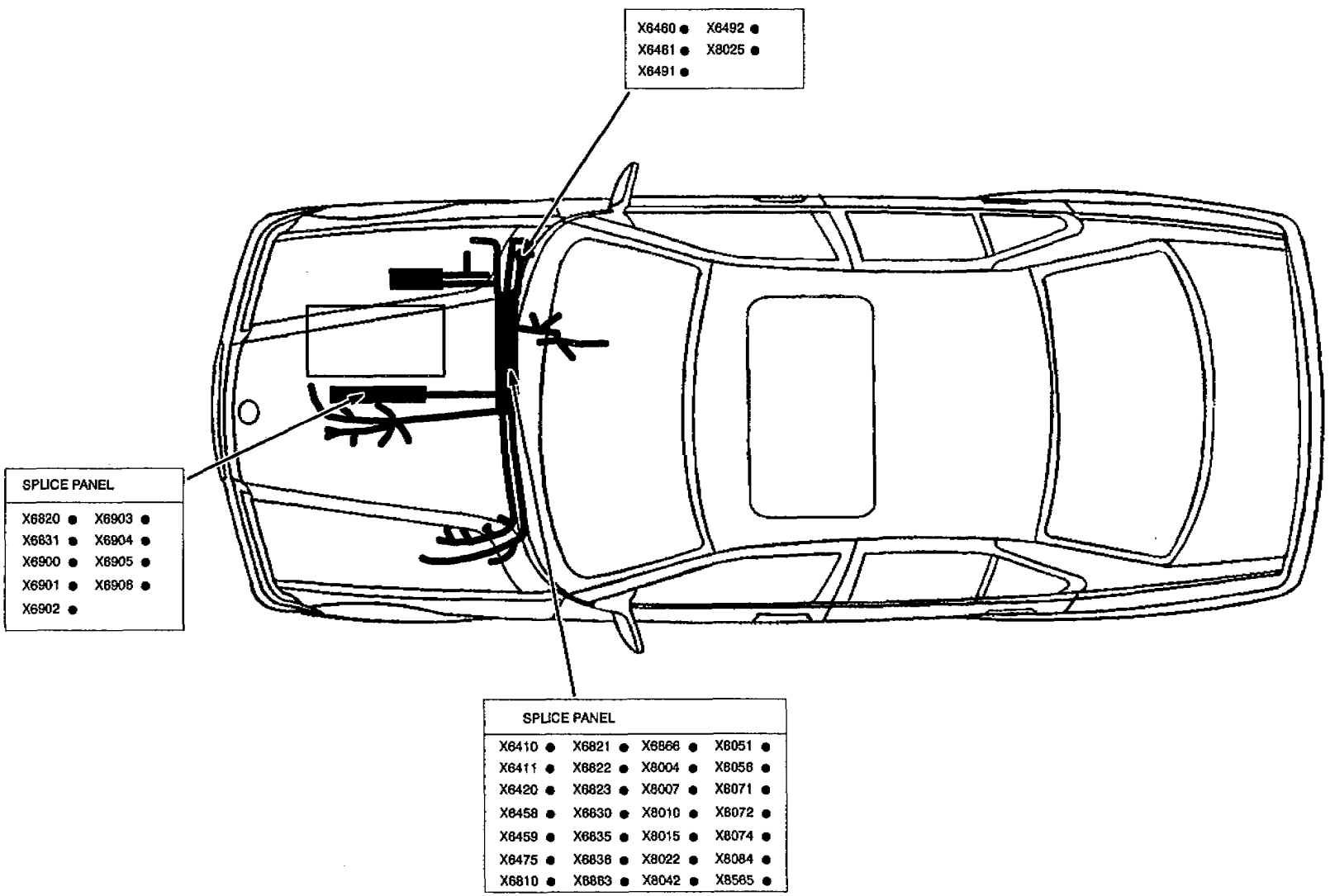


FIG. 1

B550001.03

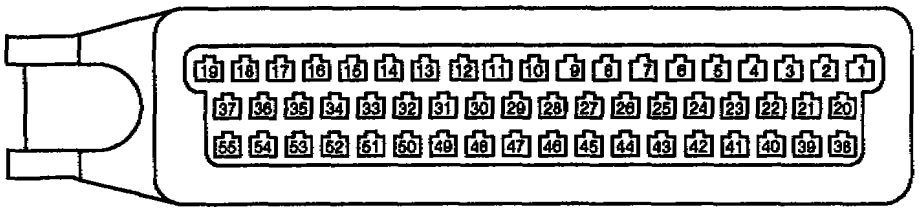


FIG. 2

B260005.00

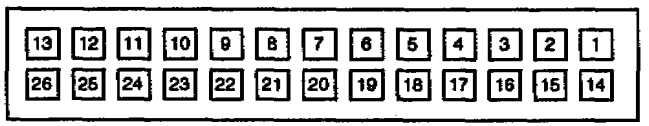


FIG. 3

B150003.00

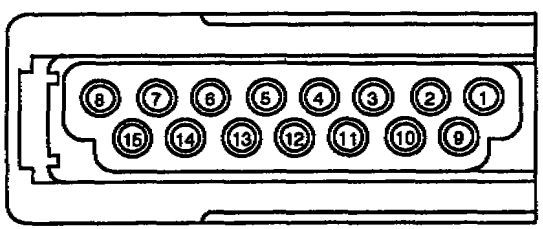
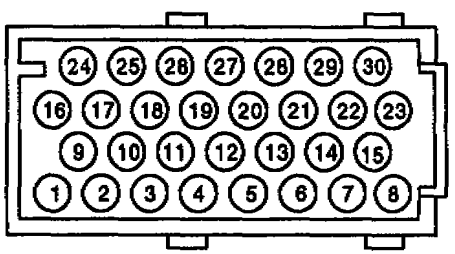


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

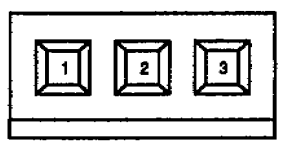


FIG. 2

B120003.00

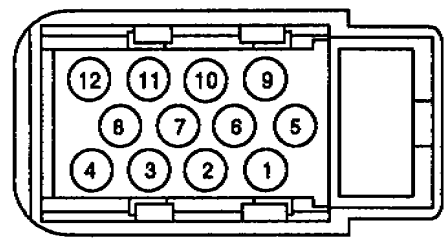


FIG. 3

B120001.00

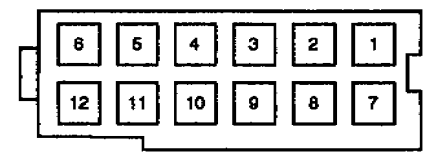


FIG. 4

B080002.00

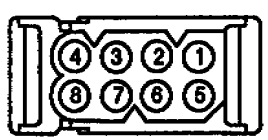


FIG. 5

B180000.00

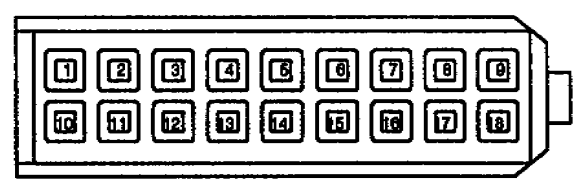


FIG. 6

B120015

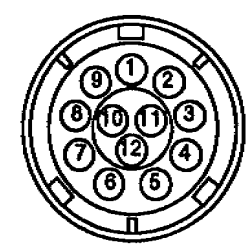


FIG. 1

B030001.00

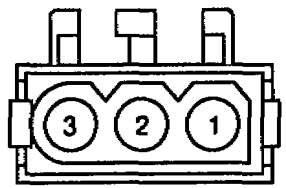


FIG. 2

B070007.00

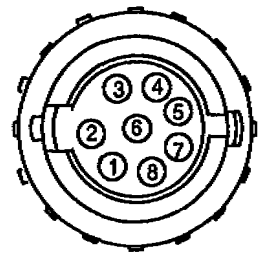


FIG. 3

B170001.00

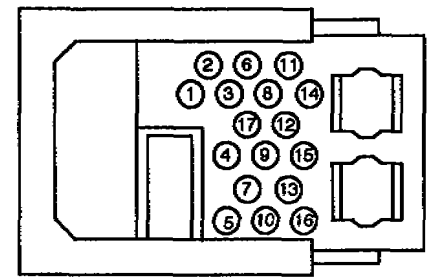


FIG. 4

B100008.00

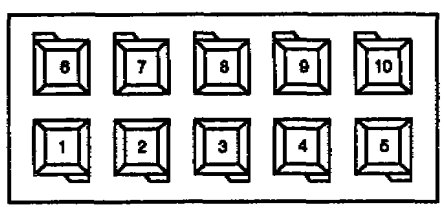


FIG. 5

B030005.00

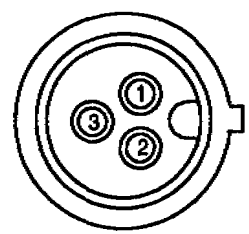
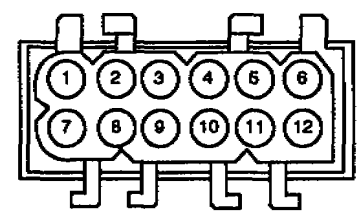


FIG. 6

B120004.01



CONNECTOR VIEWS

FIG. 1

B040002.00

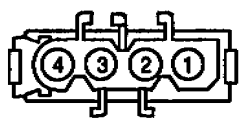


FIG. 2

B050003.00

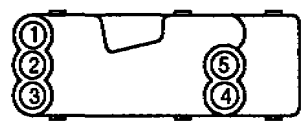


FIG. 3

B040004.00



FIG. 4

B040018

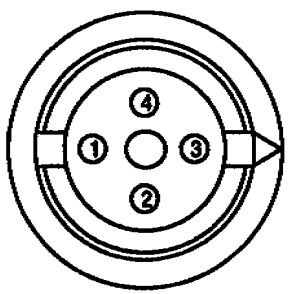


FIG. 5

B080001.00

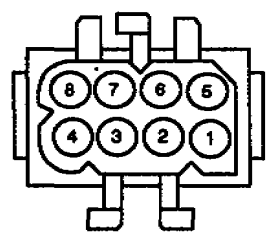


FIG. 6

B090002.00

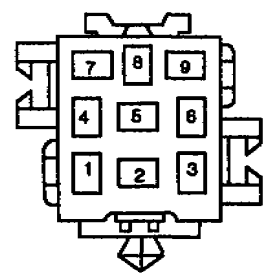


FIG. 1

B210002.00

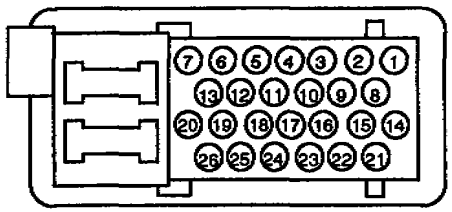


FIG. 2

B060001.02



FIG. 3

B070005.00

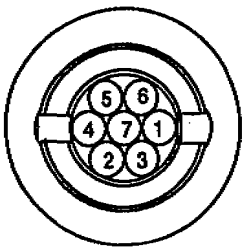


FIG. 4

B200003.00

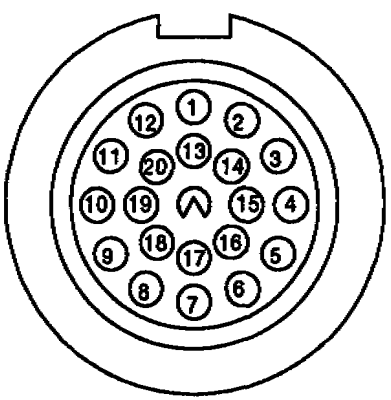


FIG. 5

B060010.01

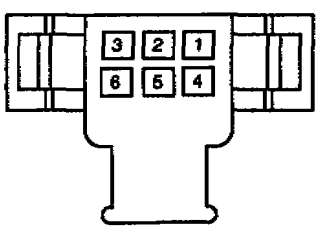


FIG. 6

B030003.02



CONNECTOR VIEWS

FIG. 1

B060008.00

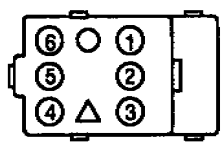


FIG. 2

B250001.01

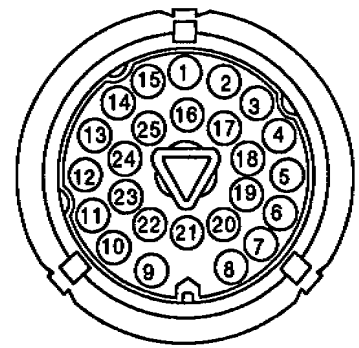


FIG. 3

B060019.02

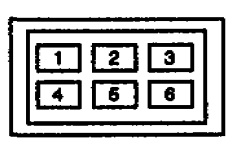


FIG. 4

B060037.00

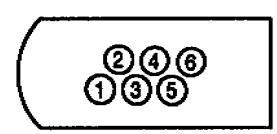


FIG. 1

B880001.00

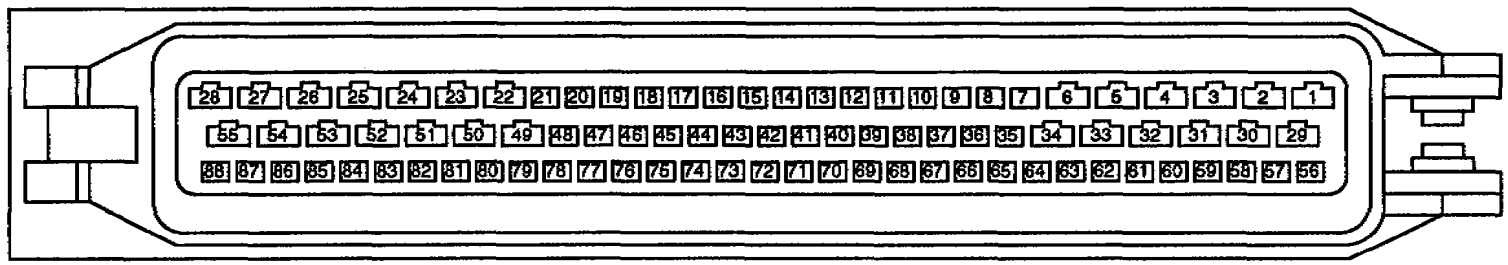


FIG. 2

B060038.00

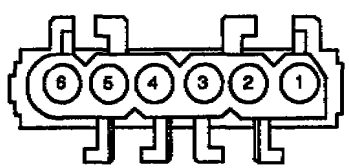
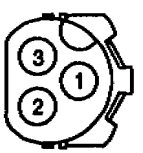


FIG. 3

B030006.00



CONNECTOR VIEWS

FIG. 1

B060012.00

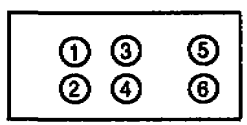


FIG. 2

B040023.01

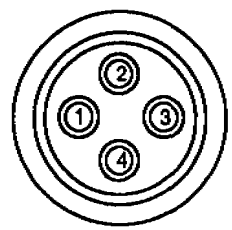


FIG. 3

B030018.00

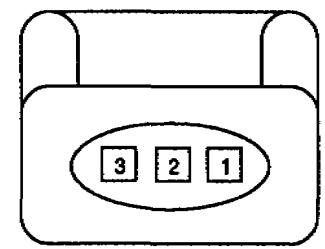


FIG. 4

B030015.08

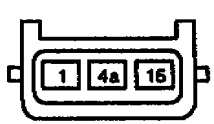


FIG. 5

B030023.00

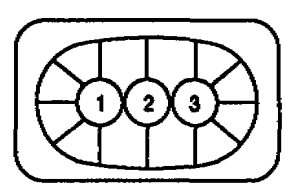
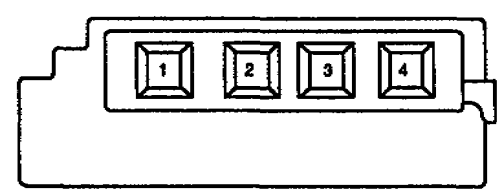


FIG. 6

B040020.00



CONNECTOR VIEWS

FIG. 1

B030025.00

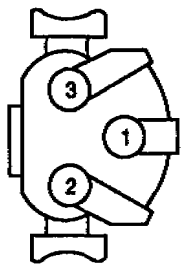


FIG. 2

B060037.01

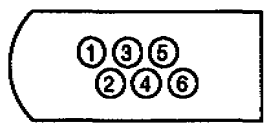


FIG. 3

B030001.00

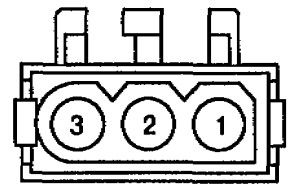


FIG. 4

B060001.00



FIG. 5

B120004.05

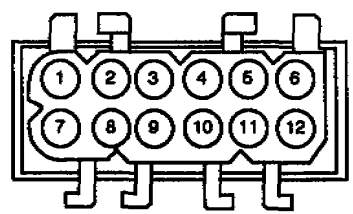
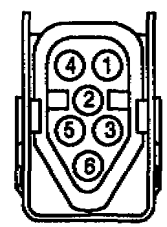


FIG. 6

B060009.00



CONNECTOR VIEWS

FIG. 1

B100004.01

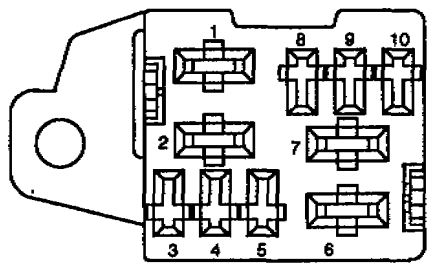


FIG. 2

B180002.00

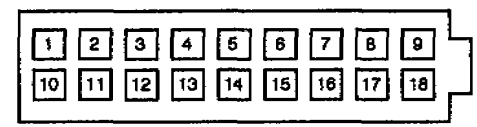


FIG. 3

B060042

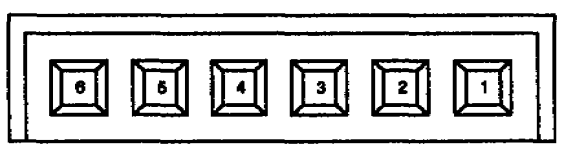


FIG. 4

B100007.00

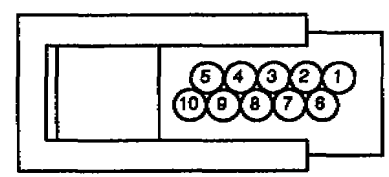


FIG. 1

B040021

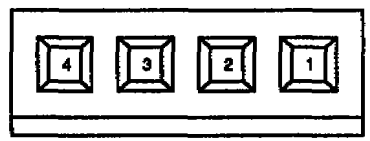


FIG. 2

B260002.04

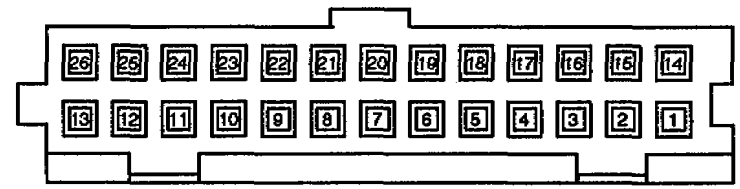


FIG. 3

B040003.00

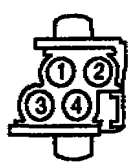


FIG. 4

B130002.00

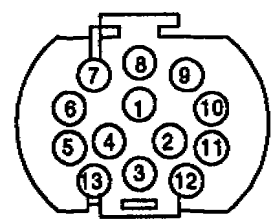
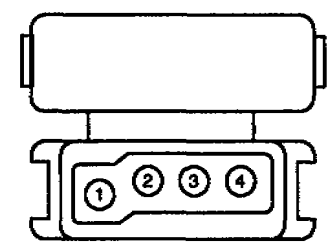


FIG. 5

B040013



CONNECTOR VIEWS

FIG. 1

B040022.00

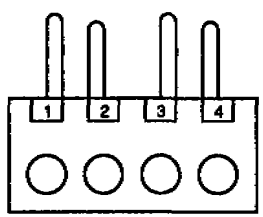


FIG. 2

B030009.00

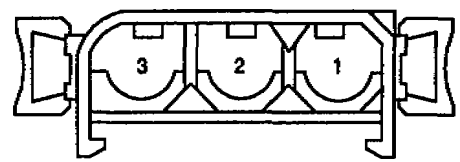


FIG. 3

B120002.02

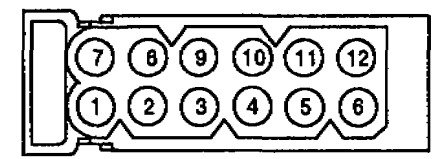


FIG. 4

B160001.00

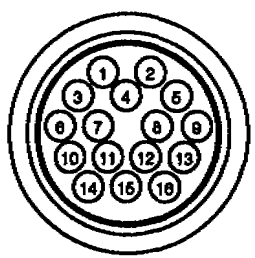


FIG. 5

B100011.01

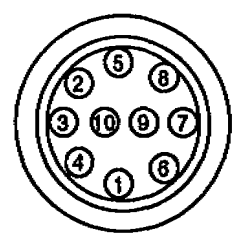
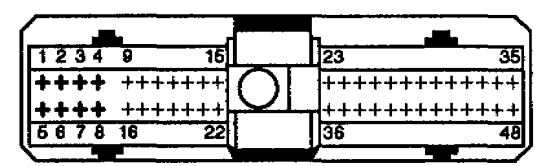


FIG. 6

B480000.00



CONNECTOR VIEWS

FIG. 1

B050006.00

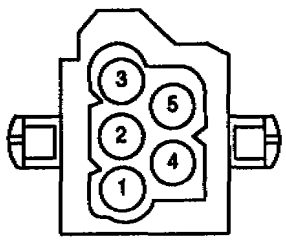


FIG. 2

B300003.00

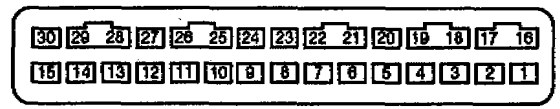


FIG. 3

B040027.00

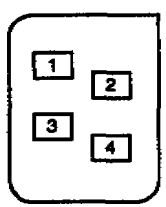
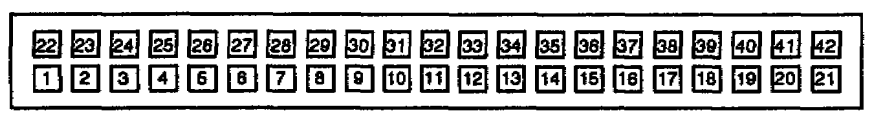


FIG. 4

B420000.00



CONNECTOR VIEWS

FIG. 1

B030042.01

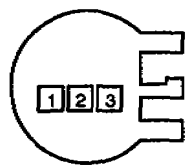


FIG. 2

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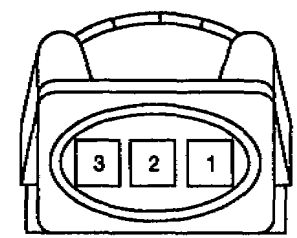
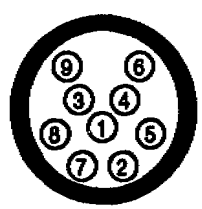
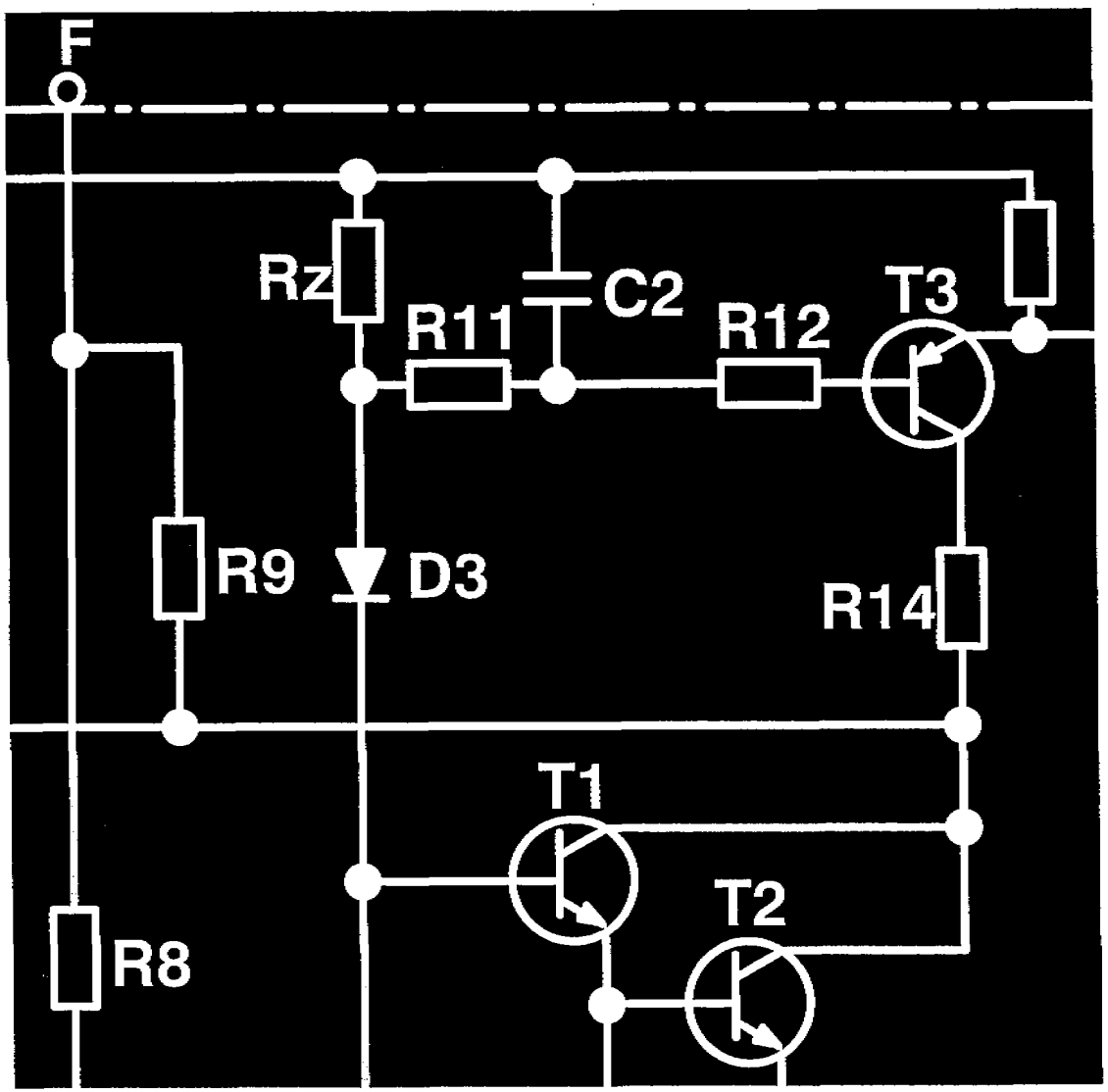


FIG. 3

B090006.00





1996 BMW 318is/c, 320i, 325i/c, 328i/c M3 (E36) Electrical Troubleshooting Manual

Vehicles Produced 9/95 to 8/96

The following systems have been modified during the model year and are marked as early or late production:

0670.2	POWER DISTRIBUTION
0670.3	FUSE DETAILS
0670.4	GROUND DISTRIBUTION
0670.5	DATA LINK
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)
5126.0	ZKE CENTRAL LOCKING (ZV)
5430.1	ELECTRICAL CONVERTIBLE TOP
6135.0	DRIVE-AWAY PROTECTION (EWS II)
6211.0	INSTRUMENT CLUSTER
6313.0	TURN/HAZARD LIGHTS
6350.0	CRASH CONTROL MODULE
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)
6561.0	CELLULAR TELEPHONE (PROVISIONS)
6581.2	ON-BOARD COMPUTER (BC V)

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

3 SERIES – E36 (318is, 320i, 325i, 328i, M3, INCL. CONVERTIBLE)

SCHEMATICS MODEL YEAR 1996

0100.0	INDEX
0110.0	INTRODUCTION
0140.0	SYMBOLS
0670.0	POWER DISTRIBUTION CHART
0670.1	FUSE CHART
0670.2	POWER DISTRIBUTION
0670.3	FUSE DETAILS
0670.4	GROUND DISTRIBUTION
0670.5	DATA LINK
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)
1210.10	ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)
1230.0	CHARGING SYSTEM
1240.0	START
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)
3450.0	SLIP CONTROL (ABS)
3450.1	SLIP CONTROL (ABS/ASC)
5116.0	POWER MIRRORS
5126.0	ZKE CENTRAL LOCKING (ZV)
5133.1	POWER WINDOWS (FH)
5200.0	POWER SEATS
5203.0	HEATED SEATS
5410.1	POWER SUN ROOF (SHD)
5430.1	ELECTRICAL CONVERTIBLE TOP
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)
6133.0	HORN
6135.0	DRIVE–AWAY PROTECTION (EWS II)
6160.1	WIPER/WASHER MODULE (WWM)
6167.1	HEADLIGHT WASHER (SRA)
6211.0	INSTRUMENT CLUSTER
6213.2	MULTI–FUNCTION CLOCK
6214.0	ON–BOARD DISPLAY

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6300.0	LIGHT SWITCH DETAILS
6312.0	HEADLIGHTS/FOG LIGHTS
6313.0	TURN/HAZARD LIGHTS
6314.0	PARK/TAIL/UNDERHOOD LIGHTS
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS
6322.0	BACK UP LIGHTS
6325.0	BRAKE LIGHTS
6330.3	INTERIOR LIGHTS
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ ASHTRAY LIGHT/CHARGING SOCKET/ CIGAR LIGHTER
6350.0	CRASH CONTROL MODULE
6412.5	PARK VENTILATION WITH IHKR
6424.0	REAR WINDOW DEFOGGER/ ANTENNA
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)
6510.0	RADIO/CD PLAYER (PROVISIONS)
6510.1	RADIO/HIFI
6561.0	CELLULAR TELEPHONE (PROVISIONS)
6571.0	CRUISE CONTROL (TEMPOMAT)
6575.2	ANTI-THEFT SYSTEM (ALPINE)
6581.2	ON-BOARD COMPUTER (BC V)
7000.0	COMPONENT LOCATION CHART
7100.0	COMPONENT LOCATION VIEWS
8000.0	SPLICE LOCATION VIEWS
8500.0	CONNECTOR VIEWS

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ABS HYDRAULIC UNIT, Y1 ..... 3450.0-01
ABS HYDRAULIC UNIT, Y1w 3450.1-01
ABS PEDAL TRAVEL SENSOR, S123 ..... 3450.
ABS PUMP MOTOR RELAY, K75 ..... 3450.
ABS RELAY, K10 ..... 3450.
AIR BAG GAS GENERATOR, DRIVER'S, G5 ..... 3234.0-00
AIR BAG GAS GENERATOR, PASSENGER'S, G6 ..... 3234.0-00
AIR CONDITIONING COMPRESSOR, Y2 ..... 6450.4-05
AIR FLOW SENSOR, B6233 ..... 1210.9-05
AIR PUMP, M6133 ..... 1210.14-06
AIR PUMP, Y6133 ..... 1210.17-05
ANTENNA AMPLIFIER AM/FM, N8 ..... 6424.0-00
ANTI-THEFT CONTROL MODULE (ALPINE), N12w 6575.2-00
ANTI-THEFT HORN (ALPINE), H1w 6575.2-02
ANTI-THEFT SYSTEM (ALPINE) 6575.2
ASC DIODE, V7 ..... 3450.1-00
ASC SWITCH, S6 ..... 3450.1-02
AUTOMATIC CLIMATE CONTROL MODULE, A115 ..... 6450.7
AUTOMATIC TRANSMISSION RANGE SWITCH, S3 ..... 2460.
AUXILIARY FAN MOTOR, M9 ..... 6450.4-06
AUXILIARY FUSE BOX, P95 ..... 0670.2-04
AUXILIARY THROTTLE POSITION MOTOR (ADS), M93 ..... 3450.1-02
AUXILIARY THROTTLE POSITION SENSOR, R31 ..... 3450.1-04
AUXILIARY TURN LIGHT, LEFT FRONT, H9 ..... 6313.0-02
AUXILIARY TURN LIGHT, RIGHT FRONT, H8 ..... 6313.0-02
B+ JUMP START JUNCTION POINT, G6430 ..... 0670.2-00
BACK UP LIGHT, LEFT, H27 ..... 6322.0-00
BACK UP LIGHT, RIGHT, H28 ..... 6322.0-00
BACK UP LIGHTS 6322.0
BATTERY, G1 ..... 0670.2-00
BLOWER MOTOR, M30 ..... 6450.4-01
BLOWER RELAY, K4 ..... 6450.4-00
BLOWER RESISTORS, R11 ..... 6450.4-01
BLOWER SWITCH, S75 ..... 6450.4-01
BODY ELECTRONICS CONTROL MODULE (ZKE IV), A104 ..... 6100.0-00
BRAKE FLUID LEVEL SWITCH, B18 ..... 6211.0-00
BRAKE LIGHT SWITCH, S29 ..... 6325.0-00
BRAKE LIGHT SWITCH, S30 ..... 6325.0-01
BRAKE LIGHT, LEFT, H24 ..... 6325.0-00
BRAKE LIGHT, RIGHT, H31 ..... 6325.0-00
BRAKE LIGHTS 6325.0
BRAKE PAD SENSOR, LEFT FRONT, B16 ..... 6211.0-01
BRAKE PAD SENSOR, RIGHT REAR, B17 ..... 6211.0-01
CAMSHAFT ACTUATOR, B6208 ..... 1210.
CAMSHAFT ACTUATOR, Y6208 ..... 1210.10-05
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION), B6204 ..... 1210.
CARBON CANISTER VALVE, Y199 ..... 1210.17-10
CASSETTE BOX LIGHT, E45y 6300.0-00
CD CHANGER, N22 ..... 6510.1-00
CELLULAR TELEPHONE (PROVISIONS) 6561.0
CENTRAL BODY ELECTRONICS (ZKE IV) 6100.0
CENTRAL LOCKING SWITCH, S302 ..... 5126.0-02
CENTRAL POWER WINDOW SWITCH, S40y 5133.1-03
CHANGE-OVER VALVE, Y5013 ..... 1210.14-06
CHARGING SYSTEM 1230.0
CHECK CONTROL MODULE, A4 ..... 6581.2-03
CHILD PROTECTION CONTROL (CONSOLE), S130 ..... 5133.1-02
CHIME MODULE, H10 ..... 6581.2-01
CLUTCH SWITCH, S32 ..... 6525.0-00
COMBINATION SWITCH, S7 ..... 6312.0-00
COMPONENT LOCATION CHART 7000.0
COMPONENT LOCATION VIEWS 7100.0
COMPRESSOR CONTROL RELAY, K19 ..... 6450.4-05
CONNECTOR VIEWS 8500.0
CONTACT RING, C101 ..... 3234.0-00
CONVERTIBLE TOP ACTUATING SWITCH, S143 ..... 5430.1-01
CONVERTIBLE TOP CONTROL MODULE, A96 ..... 5430.1-00
CONVERTIBLE TOP END-POSITION MICRO SWITCH, S164 .. 5430.1-01
CONVERTIBLE TOP MOTOR, M101 ..... 5430.1-02

CONVERTIBLE TOP POSITION MICRO SWITCH, S165 ..... 5430.1-01
CONVERTIBLE TOP STORAGE LID LOCK MOTOR, M43 ..... 5430.1-02
CONVERTIBLE TOP STORAGE LID MICRO SWITCH, S214 ..... 5430.1-02
CONVERTIBLE TOP STORAGE LID MOTOR, M100 ..... 5430.1-02
CRANKSHAFT POSITION/RPM SENSOR, B6203 ..... 1210.
CRASH CONTROL MODULE 6350.0
CRASH CONTROL MODULE, N17 ..... 6350.0-01
CRUISE CONTROL (TEMPOMAT) 6571.0
CRUISE CONTROL ACTUATOR (TEMPOMAT), M25 ..... 6571.0-01
CRUISE CONTROL MODULE (TEMPOMAT), A8 ..... 6571.0-00
CRUISE CONTROL SWITCH, S28 ..... 6571.0-00
DASH VENT MIXING FLAP MOTOR, M34 ..... 6450.4-04
DATA LINK 0670.5
DATA LINK CONNECTOR, D100 ..... 0670.5-00
DAYTIME RUNNING LIGHTS CODING DIODE, V4 ..... 6314.0-02
DEFROSTER FLAP MOTOR, M35 ..... 6450.7-03
DIMMER, N3 ..... 6300.0-00
DIVERSITY, N404 ..... 6424.0-03
DOOR CONTACT, LEFT REAR, S125 ..... 6330.3-01
DOOR CONTACT, RIGHT REAR, S124 ..... 6330.3-01
DOOR JAMB SWITCH, DRIVER'S, S14 ..... 6330.3-01
DOOR JAMB SWITCH, PASSENGER'S, S13 ..... 6330.3-01
DOOR LOCK MOTOR, DRIVER'S, M12 ..... 5126.0-00
DOOR LOCK MOTOR, LEFT REAR, M15 ..... 5126.0-01
DOOR LOCK MOTOR, PASSENGER'S, M13 ..... 5126.0-00
DOOR LOCK MOTOR, RIGHT REAR, M14 ..... 5126.0-01
DOUBLE RELAY, K5029 ..... 1210.14-00
DOUBLE TEMPERATURE SWITCH, S36y ..... 6450.
DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE), B6256 ..... 1210.17-02
ELECTRICAL CONVERTIBLE TOP 5430.1
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II), A836 .. 6135.0
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 2460.2
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z) 2460.4
ENGINE CONTROL MODULE (DME), A6000 ..... 1210.
ENGINE CONTROL MODULE RELAY, K6300 ..... 1210.
ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42) 1210.9
ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50) .. 1210.13
ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30) 1210.14
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44) 1210.20
ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50) 1210.10
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52) 1210.17
ENGINE COOLANT LEVEL SWITCH, S63 ..... 6581.2-03
ENGINE COOLANT TEMPERATURE SENSOR, B6232 ..... 6211.0-02
ENGINE COOLANT TEMPERATURE SENSOR, B6236 ..... 1210.
ENGINE HOOD SWITCH, S21w 6575.2-02
EVAPORATIVE EMISSION VALVE, Y6120 ..... 1210.
EVAPORATOR TEMPERATURE SENSOR, B14 ..... 6450.4-03
EXHAUST GAS FLAP VALVE, Y198 ..... 1210.17-04
FINAL STAGE UNIT, N2 ..... 6450.7-00
FM AMPLIFIER HLO, N444 ..... 6424.0-03
FOG LIGHT SWITCH, S10 ..... 6312.0-00
FOG LIGHT, LEFT REAR, H26 ..... 6312.0-02
FOG LIGHT, LEFT, E26 ..... 6312.0-00
FOG LIGHT, RIGHT, E27 ..... 6312.0-00
FRESH AIR FLAP MOTOR, M36 ..... 6450.4-04
FRONT ASHTRAY LIGHT, E25 ..... 6332.1-00
FRONT CIGAR LIGHTER LIGHT, E29 ..... 6300.0-03
FRONT CIGAR LIGHTER, E28 ..... 6332.1-00
FRONT DOME LIGHT/MAP READING ASSEMBLY, E34 ..... 6330.3-00
FRONT FOG LIGHT RELAY, K47 ..... 6312.0-00
FRONT POWER DISTRIBUTION BOX, P90 ..... 0670.2-00
FUEL INJECTION VALVE, CYL. 1, Y6101 ..... 1210.
FUEL INJECTION VALVE, CYL. 2, Y6102 ..... 1210.
FUEL INJECTION VALVE, CYL. 3, Y6103 ..... 1210.
FUEL INJECTION VALVE, CYL. 4, Y6104 ..... 1210.
FUEL INJECTION VALVE, CYL. 5, Y6105 ..... 1210.
FUEL INJECTION VALVE, CYL. 6, Y6106 ..... 1210.
FUEL LEVEL SENSOR, B6 ..... 6211.0-04
FUEL PUMP RELAY, CYL. 1–6, K6301 ..... 1210.

FUEL PUMP RELAY, K6301w 1210.9-03
FUEL PUMP, M2 ..... 1210.
FUEL PUMP/START IDENTIFICATION RELAY, K6307 ..... 1210.14-02
FUEL TANK PRESSURE SENSOR, B72 ..... 1210.17-10
FUEL TANK SENSOR II, B25y 6211.0-04
FUSE CHART 0670.1
FUSE DETAILS 0670.3
GAS FILLER LOCK MOTOR, M16 ..... 5126.0-01
GENERATOR, G6509 ..... 1230.0-00
GLOVE BOX LIGHT, E42 ..... 6332.1-00
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER 6332.1
GLOVE BOX LOCK MOTOR, M107 ..... 5126.0-01
GROUND DISTRIBUTION 0670.4
HALL EFFECT CAMSHAFT SENSOR, B6209 ..... 1210.13-01
HARD TOP CONNECTOR 1, E99 ..... 5430.1-00
HARD TOP CONNECTOR 2, E100y 6330.3-03
HAZARD FLASHER RELAY, K16 ..... 6313.0-00
HAZARD SWITCH, S18 ..... 6313.0-01
HEADLIGHT WASHER (SRA) 6167.1
HEADLIGHT, LEFT, E7 ..... 6313.0-02
HEADLIGHT, RIGHT, E8 ..... 6313.0-02
HEADLIGHT/FOG LIGHT WASHER PUMP, M7 ..... 6167.1-00
HEADLIGHTS/FOG LIGHTS 6312.0
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 ..... 6450.4-03
HEAT EXCHANGER TEMPERATURE SENSOR, RH, B12 ..... 6450.4-03
HEATED OXYGEN SENSOR 2, B5028 ..... 1210.14-06
HEATED OXYGEN SENSOR, B6200 ..... 1210.
HEATED SEATS 5203.0
HEIGHT MOTOR, DRIVER'S SEAT, M52 ..... 5200.0-00
HIFI AMPLIFIER, A18 ..... 6510.1-00
HIGH BEAM LIGHT RELAY, K46 ..... 6312.0-01
HIGH BEAM LIGHT, LEFT, E11 ..... 6312.0-01
HIGH BEAM LIGHT, RIGHT, E12 ..... 6312.0-01
HIGH LEVEL STOP LIGHT, H34 ..... 6325.0-00
HIGH RANGE SPEAKER, LEFT FRONT, H59 ..... 6510.1-01
HIGH RANGE SPEAKER, LEFT REAR, H56 ..... 6510.1-01
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.0-00
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.1-02
HIGH RANGE SPEAKER, RIGHT REAR, H53 ..... 6510.1-02
HIGH SPEED RELAY, K22 ..... 6450.4-06
HORN 6133.0
HORN RELAY (ALPINE), K108 ..... 6575.2-02
HORN RELAY, K2 ..... 6133.0-00
HORN SWITCH, S4 ..... 6133.0-00
HORN, LEFT, H2 ..... 6133.0-00
HORN, RIGHT, H3 ..... 6133.0-00
HOT FILM AIR MASS METER, B6207 ..... 1210.17-05
HOT FILM AIR MASS METER, B6217 ..... 1210.13-05
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.
IGNITION COIL, CYL. 1, T6151 ..... 1210.
IGNITION COIL, CYL. 2, T6152 ..... 1210.
IGNITION COIL, CYL. 3, T6153 ..... 1210.
IGNITION COIL, CYL. 4, T6154 ..... 1210.
IGNITION COIL, CYL. 5, T6155 ..... 1210.
IGNITION COIL, CYL. 6, T6156 ..... 1210.
IGNITION SWITCH, S2 ..... 0670.2-05
IHKR CONTROL PANEL, S134y 6450.4-02
INDEX 0100.0
INERTIA SWITCH, S27 ..... 5126.0-02
INSTRUMENT CLUSTER 6211.0
INSTRUMENT CLUSTER, A2w 6211.0-00
INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131 ..... 1210.20-01
INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131 ..... 1210.9-01
INTAKE AIR TEMPERATURE SENSOR, B6205 ..... 1210.
INTEGRATED CLIMATE REGULATION (IHKA E36) 6450.7
INTEGRATED CLIMATE REGULATION (IHKR E36) 6450.4
INTEGRATED CLIMATE REGULATION CONTROL MODULE, A87y 6450.4-00
INTERIOR LIGHT, LEFT REAR, E39 ..... 6330.3-00

INDEX

INTERIOR LIGHT, RIGHT REAR, E40 ..... 6330.3-00
INTERIOR LIGHTS 6330.3
INTRODUCTION 0110.0
KICK-DOWN SWITCH, S8507 ..... 2460.2-04
KNOCK SENSOR, B6240 ..... 1210.17-06
KNOCK SENSOR, B6240 ..... 1210.20-04
KNOCK SENSOR, CYL. 1-2, B6241 ..... 1210.9-05
KNOCK SENSOR, CYL. 1-3, B6241w ..... 1210.
KNOCK SENSOR, CYL. 3-4, B6242 ..... 1210.9-05
KNOCK SENSOR, CYL. 4-6, B6242w ..... 1210.
KNOCK SENSOR, CYL. 5-6, B6243 ..... 1210.14-05
LICENSE PLATE LIGHT, LEFT, E43 ..... 6320.0-00
LICENSE PLATE LIGHT, RIGHT, E44 ..... 6320.0-00
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS 6320.0
LIGHT SWITCH DETAILS 6300.0
LIGHT SWITCH, S8 ..... 6300.0-00
LOW BEAM LIGHT RELAY, K48 ..... 6312.0-01
LOW BEAM LIGHT, LEFT, E13 ..... 6312.0-01
LOW BEAM LIGHT, RIGHT, E14 ..... 6312.0-01
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.0-00
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.1-01
LOW RANGE SPEAKER, LEFT REAR, H57 ..... 6510.1-01
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.0-00
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.1-02
LOW RANGE SPEAKER, RIGHT REAR, H52 ..... 6510.1-02
MAKEUP MIRROR LIGHT, DRIVER'S, E35 ..... 6330.3-00
MAKEUP MIRROR LIGHT, PASSENGER'S, E36 ..... 6330.3-00
MAKEUP MIRROR SWITCH, DRIVER'S, S77 ..... 6330.3-00
MAKEUP MIRROR SWITCH, PASSENGER'S, S78 ..... 6330.3-00
MICROPHONE, B400 ..... 6561.0-00
MID-HIGH RANGE SPEAKER, LEFT, H42 ..... 6510.1-01
MID-HIGH RANGE SPEAKER, RIGHT, H43 ..... 6510.1-02
MIDRANGE SPEAKER, LEFT FRONT, H55 ..... 6510.1-01
MIDRANGE SPEAKER, RIGHT FRONT, H54 ..... 6510.1-02
MIRROR CONTROL SWITCH, S17 ..... 5116.0-00
MIRROR, DRIVER'S SIDE, Y5 ..... 5116.0-01
MIRROR, PASSENGER'S SIDE, Y6 ..... 5116.0-01
MULTI-FUNCTION CLOCK 6213.2
MULTI-FUNCTION CLOCK, N10 ..... 6213.2-00
NORMAL SPEED RELAY, K21 ..... 6450.4-06
OBD II CONNECTOR, D110 ..... 0670.5
OIL PRESSURE SWITCH, B6231 ..... 6211.0-00
OIL TEMPERATURE SENSOR, B6238 ..... 6211.0-04
ON-BOARD COMPUTER (BC V) 6581.2
ON-BOARD COMPUTER TEMPERATURE SENSOR, B21 ..... 6581.2-00
ON-BOARD COMPUTER, N4 ..... 6581.2-00
ON-BOARD DISPLAY 6214.0
ON-BOARD DISPLAY, A35 ..... 6214.0-00
OUTSIDE TEMPERATURE SENSOR, B13 ..... 6450.4-03
OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER), B62002 ..... 1210.20-03
OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER), B62001 ..... 1210.20-03
OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER), B62102 ..... 1210.17-04
OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER), B62101 ..... 1210.17-04
OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER), B62202 ..... 1210.17-04
OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER), B62201 ..... 1210.17-04
OXYGEN SENSOR RELAY, K6303 ..... 1210.
PARK BRAKE SWITCH, S31 ..... 6211.0-00
PARK LIGHT, LEFT, E15 ..... 6314.0-01
PARK LIGHT, RIGHT, E19 ..... 6314.0-01
PARK VENTILATION RELAY, K450 ..... 6412.5.0-00
PARK VENTILATION WITH IHKR 6412.5
PARK/TAIL/UNDERHOOD LIGHTS 6314.0
POWER DISTRIBUTION 0670.2
POWER DISTRIBUTION CHART 0670.0

POWER MIRRORS 5116.0
POWER SEATS 5200.0
POWER SUN ROOF (SHD) 5410.0
POWER WINDOW SWITCH, DRIVER'S, S126y 5133.1-01
POWER WINDOW SWITCH, PASSENGER'S, S127y 5133.1-01
POWER WINDOWS (FH) 5133.1
PRESSURE SWITCH, B9508 ..... 6450.4-06
PROGRAM SWITCH, S8503 ..... 2460.
RADIO, N9 ..... 6510.0-00
RADIO/CD PLAYER (PROVISIONS) 6510.0
RADIO/HIFI 6510.1
REAR ASHTRAY LIGHT, E28y 6300.0-03
REAR DEFOGGER RELAY, K13 ..... 6424.0-00
REAR DEFOGGER/ANTENNA, E10 ..... 6424.0-02
REAR DOOR (CONSOLE) POWER WINDOW SWITCH, LH, S128y 5133.1-02
REAR DOOR (CONSOLE) POWER WINDOW SWITCH, RH, S129y 5133.1-02
REAR FOG LIGHT SWITCH, S82 ..... 6312.0-02
REAR POWER WINDOW SWITCH, LH, S128z 5133.1-03
REAR POWER WINDOW SWITCH, RH, S129z 5133.1-03
REAR RECIRCULATION FLAP MOTOR, M46 ..... 6450.7-03
REAR WINDOW BLOWER MICRO SWITCH, S196 ..... 5430.1-01
REAR WINDOW BLOWER RELAY, K99 ..... 6424.0-01
REAR WINDOW BLOWER, M105 ..... 6424.0-01
REAR WINDOW DEFOGGER/ANTENNA 6424.0
RECIRCULATION FLAP MOTOR, M40 ..... 6450.4-04
REGULATION FLAP MOTOR, M44 ..... 6450.7-03
RESISTOR, R8554 ..... 1210.13-04
REVERSING LIGHT SWITCH, S8511 ..... 6322.0-00
ROLLOVER PROTECTION ACTUATOR, LH, Y85 ..... 5430.1-03
ROLLOVER PROTECTION ACTUATOR, RH, Y86 ..... 5430.1-03
ROLLOVER SENSOR, N24 ..... 5430.1-03
SEAT BELT SWITCH, DRIVER'S, S58 ..... 3234.0-00
SEAT BELT SWITCH, PASSENGER'S, S59 ..... 3234.0-00
SEAT CONTROL SWITCH, DRIVER'S SEAT, S51 ..... 5200.0-00
SEAT CONTROL SWITCH, PASSENGER'S SEAT, S56 ..... 5200.0-01
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-00
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 ..... 5200.0-01
SEAT HEATER SWITCH, DRIVER'S SEAT, S53 ..... 5203.0-00
SEAT HEATER SWITCH, PASSENGER'S SEAT, S54 ..... 5203.0-00
SEAT HEATER, DRIVER'S, E57 ..... 5203.0-00
SEAT HEATER, PASSENGER'S, E58 ..... 5203.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-00
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 ..... 5200.0-01
SEAT OCCUPANCY DETECTOR, A113 ..... 3234.0-00
SEATBACK HEATER, DRIVER'S, E56 ..... 5203.0-00
SEATBACK HEATER, PASSENGER'S, E59 ..... 5203.0-00
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 ..... 5200.0-01
SECONDARY AIR PUMP RELAY, K6304 ..... 1210.17-05
SECONDARY AIR PUMP VALVE, Y6163 ..... 1210.17-05
SHIFT–LOCK, Y19 ..... 2460.2-04
SLIP CONTROL (ABS) 3450.0
SLIP CONTROL (ABS/ASC) 3450.1
SLIP CONTROL MODULE (ABS), A7 ..... 3450.0-00
SLIP CONTROL MODULE (ABS/ASC), A52 ..... 3450.1-01
SPEAKER, LEFT REAR, H46 ..... 6510.1-01
SPEAKER, RIGHT REAR, H45 ..... 6510.0-00
SPEAKER, RIGHT REAR, H45 ..... 6510.1-02
SPEED SENSOR – ABS, LEFT FRONT, B2 ..... 3450.
SPEED SENSOR – ABS, LEFT REAR, B4 ..... 3450.
SPEED SENSOR – ABS, RIGHT FRONT, B1 ..... 3450.
SPEED SENSOR – ABS, RIGHT REAR, B3 ..... 3450.
SPLICE LOCATION VIEWS 8000.0
START 1240.0
STARTER, M6510 ..... 1240.0-01
SUNROOF CONTROL ASSEMBLY, A56 ..... 5410.1-01
SUNROOF MOTOR, M24 ..... 5410.1-01

SUNROOF SWITCH, S38 ..... 5410.1-01
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 ..... 3234.0-00
SUPPRESSION FILTER, C900 ..... 6424.0-01
SWITCH SPATIAL SOUND, S303 ..... 6510.1
SYMBOLS 0140.0
TAIL LIGHT, LEFT, H25 ..... 6314.0-01
TAIL LIGHT, LEFT, H37 ..... 6314.0-01
TAIL LIGHT, RIGHT, H30 ..... 6314.0-01
TAIL LIGHT, RIGHT, H39 ..... 6314.0-01
TELEPHONE HANDSET, U4 ..... 6561.0-00
TELEPHONE TRANSCEIVER, H38 ..... 6561.0-00
TEMPERATURE SWITCH, S36 ..... 6450.4-06
THROTTLE FLAP HEATER, E104 ..... 3450.1-02
THROTTLE POSITION SENSOR, R6252 ..... 1210.9-05
TRANSMISSION CONTROL MODULE (EGS), A7000 ..... 2460.4-00
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 2460.2-03
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2-01
TRANSMISSION VALVE UNIT, Y8505y 2460.4-01
TRANSMITTER MODULE (EWS II), A835 ..... 6135.0
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0-00
TRUNK COMPARTMENT LIGHT, LEFT, E101 ..... 6320.0-00
TRUNK COMPARTMENT LIGHT, RIGHT, E102 ..... 6320.0-00
TRUNK LID MICRO SWITCH, S213 ..... 5430.1-02
TRUNK LID RELAY, K117 ..... 5126.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2-04
TRUNK LIGHT SWITCH, S61y 6320.0-00
TRUNK LOCK MOTOR, M17 ..... 5126.2-01
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0-02
TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
TURN/HAZARD LIGHTS 6313.0
UNCOUPLING DIODE (KL61), V9501 ..... 1210.14
UNDERHOOD LIGHT SWITCH, S19 ..... 6300.0-00
UNDERHOOD LIGHT, E20 ..... 6300.0-00
UNLOADER RELAY, TERMINAL 15, K9 ..... 5203.0-00
VARIABLE CAMSHAFT CONTROL MODULE (VANOS), A5024 ..... 1210.14-04
VARIABLE CAMSHAFT CONTROL SENSOR 1, B5022 ..... 1210.14-04
VARIABLE CAMSHAFT CONTROL SENSOR 2, B5023 ..... 1210.14-04
VARIABLE CAMSHAFT CONTROL VALVE 1, Y5020 ..... 1210.14-04
VARIABLE CAMSHAFT CONTROL VALVE 1, Y6275 ..... 1210.17-05
VARIABLE CAMSHAFT CONTROL VALVE 2, Y5021 ..... 1210.14-04
VEHICLE SPEED SENSOR, B10 ..... 6211.0-04
WASHER FLUID LEVEL SWITCH, S64 ..... 6581.2-03
WASHER PUMP, M4 ..... 6160.1-01
WATER VALVE ASSEMBLY, Y4 ..... 6450.4-02
WINDOW MOTOR, DRIVER'S, M21 ..... 5133.1-04
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.1-05
WINDOW MOTOR, LEFT REAR, M98 ..... 5133.1-05
WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.1-04
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.1-05
WINDOW MOTOR, RIGHT REAR, M99 ..... 5133.1-05
WINDOW SWITCH, LEFT REAR, S41 ..... 5133.1-02
WINDOW SWITCH, RIGHT REAR, S42 ..... 5133.1-02
WINDSCREEN COWL PANEL LOCK MICROSWITCH, S231 ..... 5430.1-00
WINDSCREEN COWL PANEL LOCK MOTOR, M132 ..... 5430.1-00

WIPER MOTOR, M3 ..... 6160.1-00
WIPER/WASHER MODULE (LOW II), A64 ..... 6160.1
WIPER/WASHER MODULE (WWM) 6160.1
WIPER/WASHER MODULE, A51 ..... 6160.1-01
WIPER/WASHER SWITCH, S5 ..... 6160.1-01
ZKE CENTRAL LOCKING (ZV) 5126.0

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self–explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

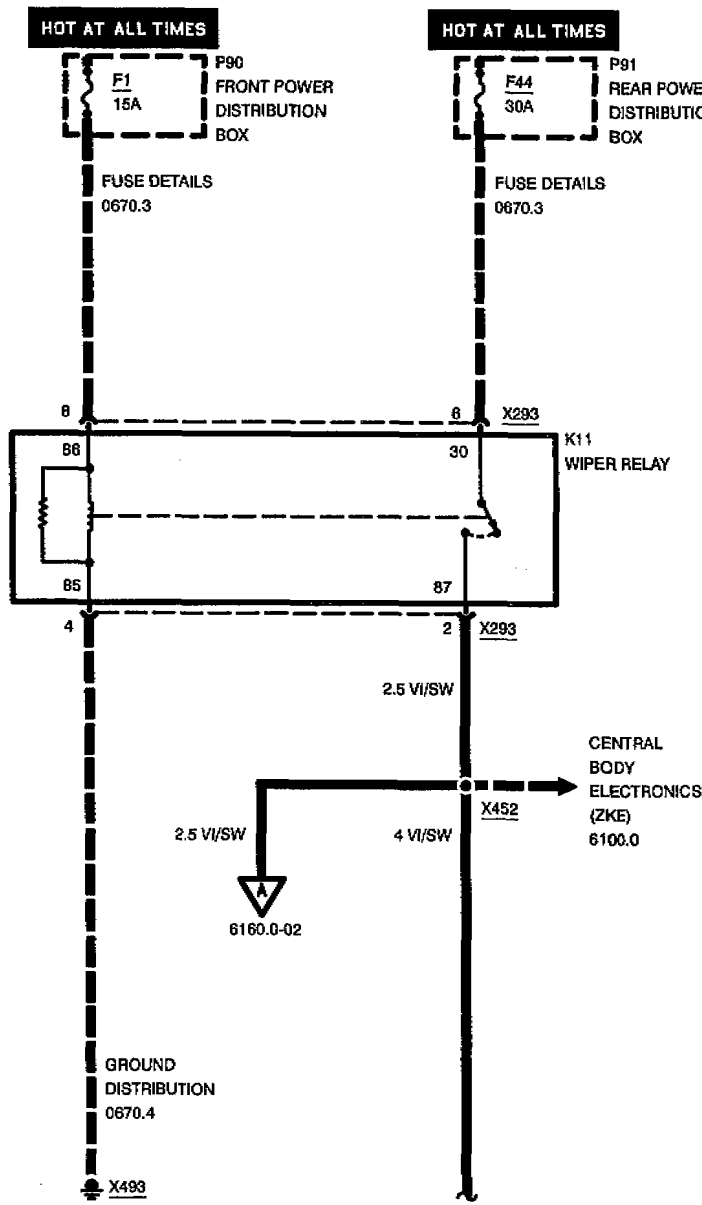
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC, etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

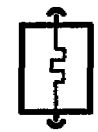
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.

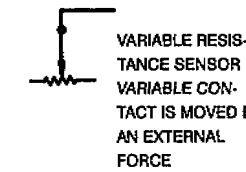
7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors, and cross sections.

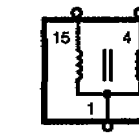
8. The interrupted line from splice X452 with an **A** in the open arrow is continued on page 6160.0–02.
Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

SYMBOLS


BATTERY


HEATING ELEMENT


VARIABLE RESISTANCE SENSOR VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



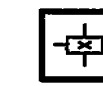
IGNITION COIL


CONTROL/POWER ELECTRONICS

FUSE DETAILS


LOUDSPEAKER OR HORN

VARIABLE RESISTOR RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


HALL EFFECT SENSOR


FUSIBLE LINK


LIGHT

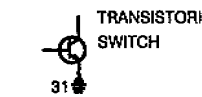

DIODE CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW

RADIO


THERMO SWITCH


PERMANENT MAGNET MOTOR ONE SPEED

ZENER DIODE TO REGULATE VOLTAGE



TRANSISTORIZED SWITCH

SOLENOID


PERMANENT MAGNET MOTOR TWO SPEEDS

LIGHT EMITTING DIODE

INDUCTIVE SENSOR


SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID

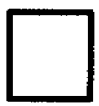

KNOCK SENSOR

OXYGEN SENSOR



VEHICLE SPEED SENSOR

SYMBOLS



ENTIRE COMPONENT SHOWN



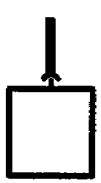
PART OF COMPONENT SHOWN



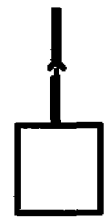
COMPONENT WITH SCREW TERMINALS



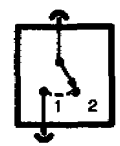
COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)



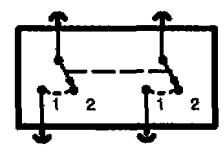
CONNECTOR ATTACHED TO COMPONENT



CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



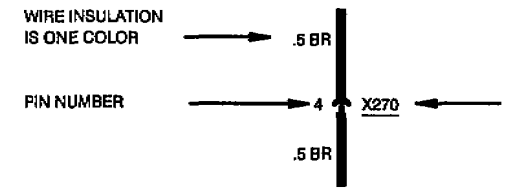
ONE POLE, TWO POSITION SWITCH

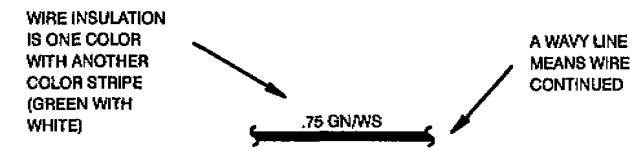


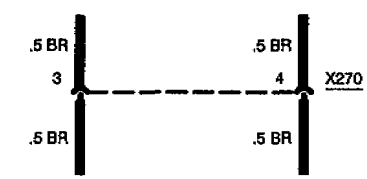
SWITCHES THAT MOVE TOGETHER

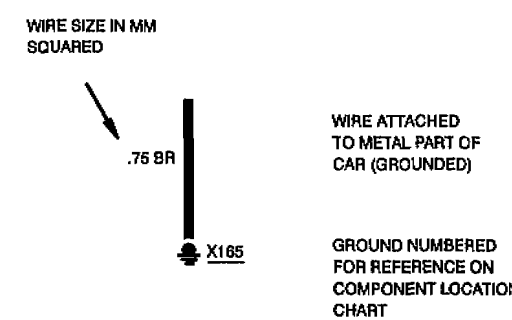
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

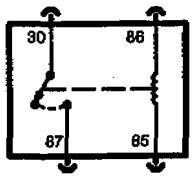




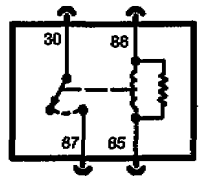




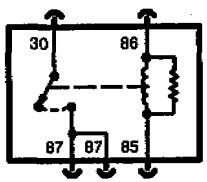
SYMBOLS



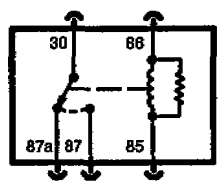
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

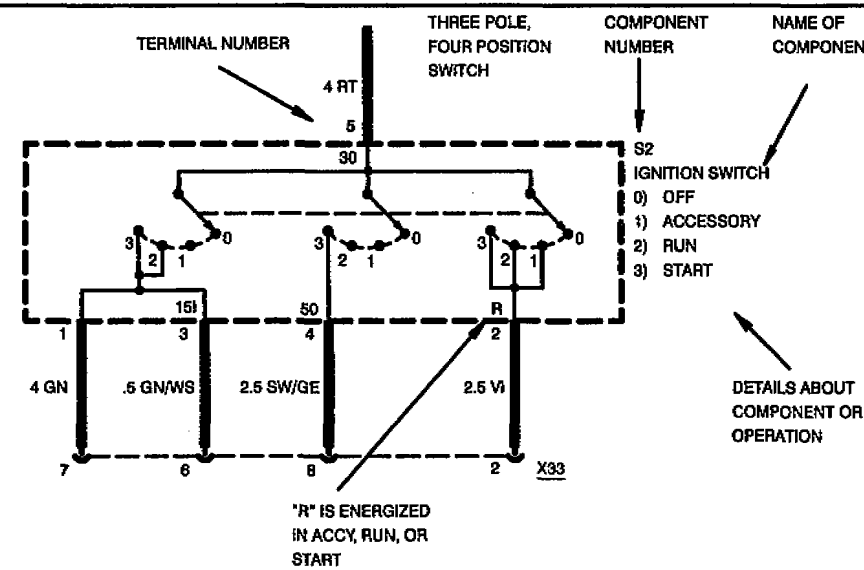


CONTACT RELAY *WITH TWO OUTPUTS*

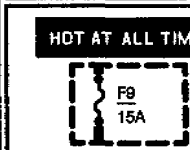


CHANGEOVER *RELAY WITH TWO OUTPUTS*

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)

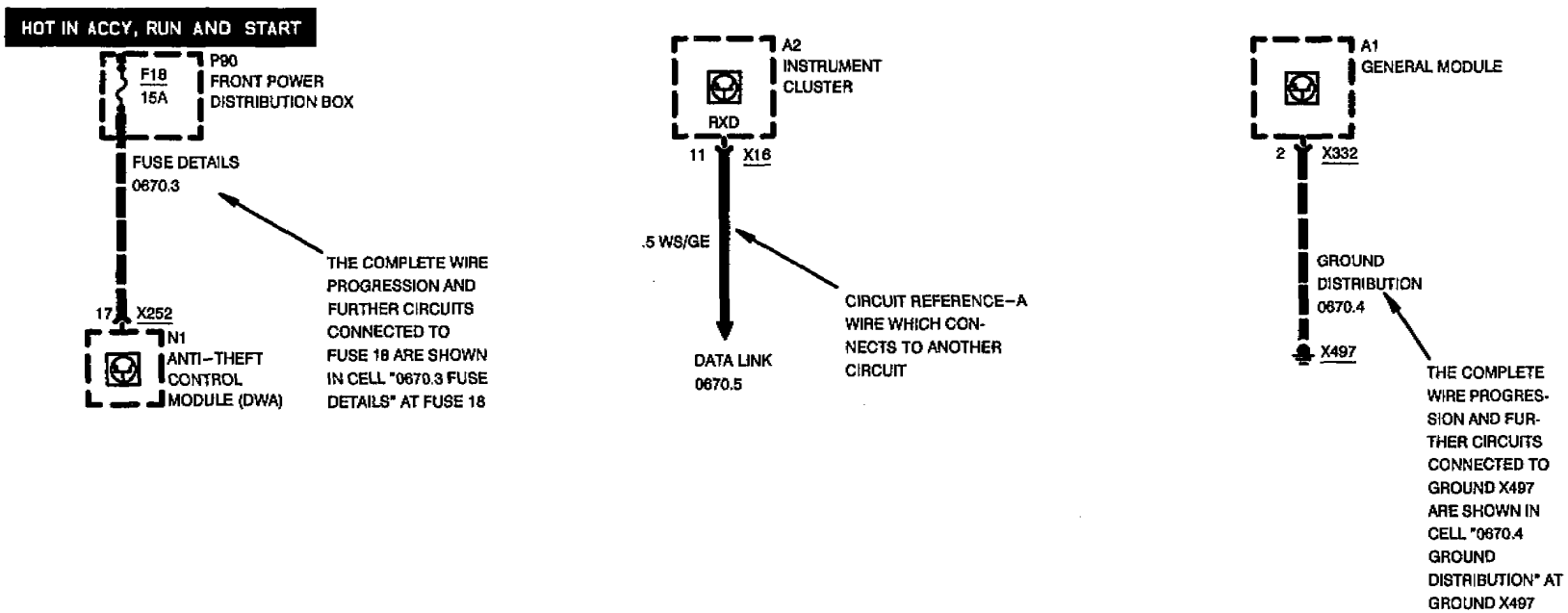


TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

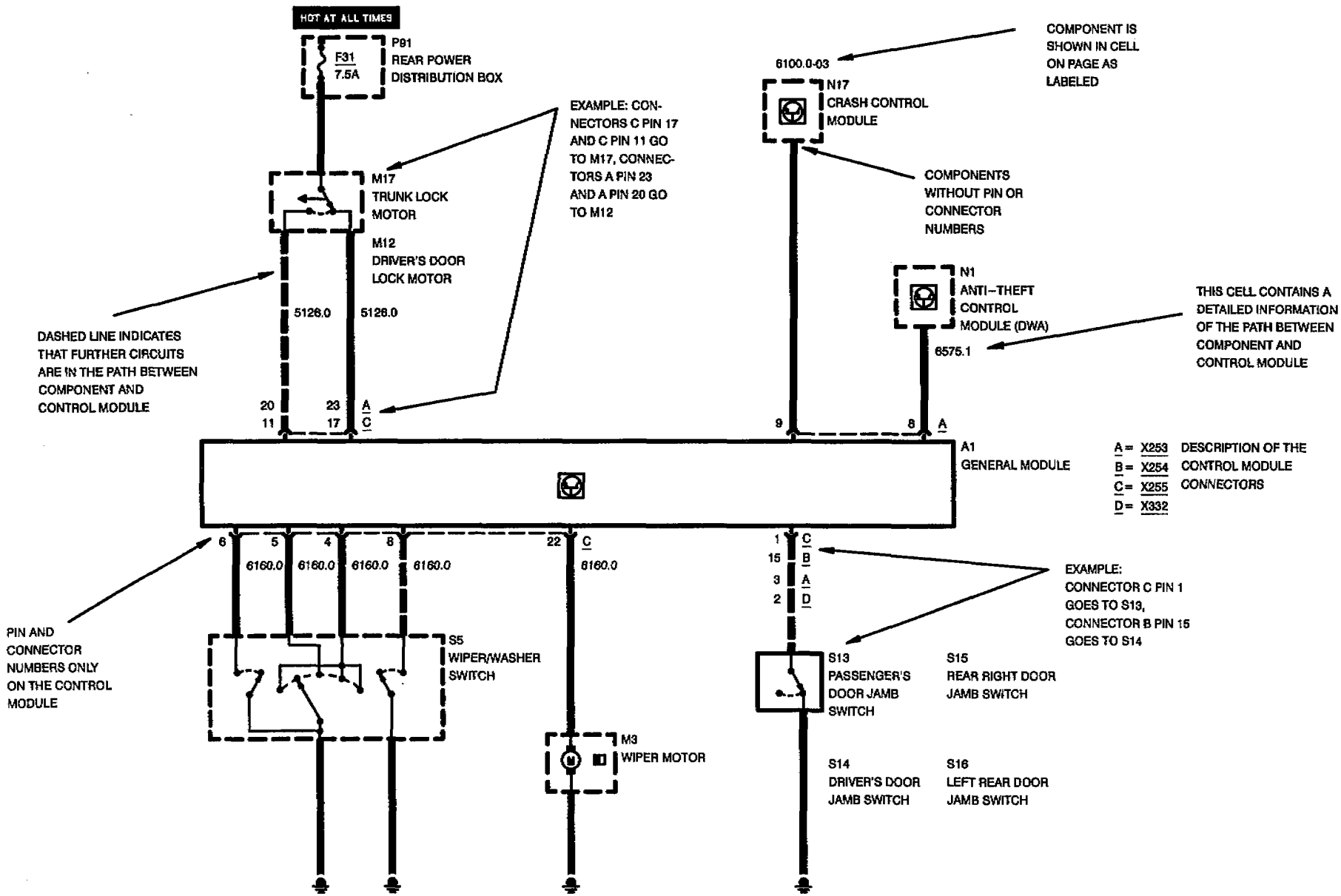


POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

SYMBOLS

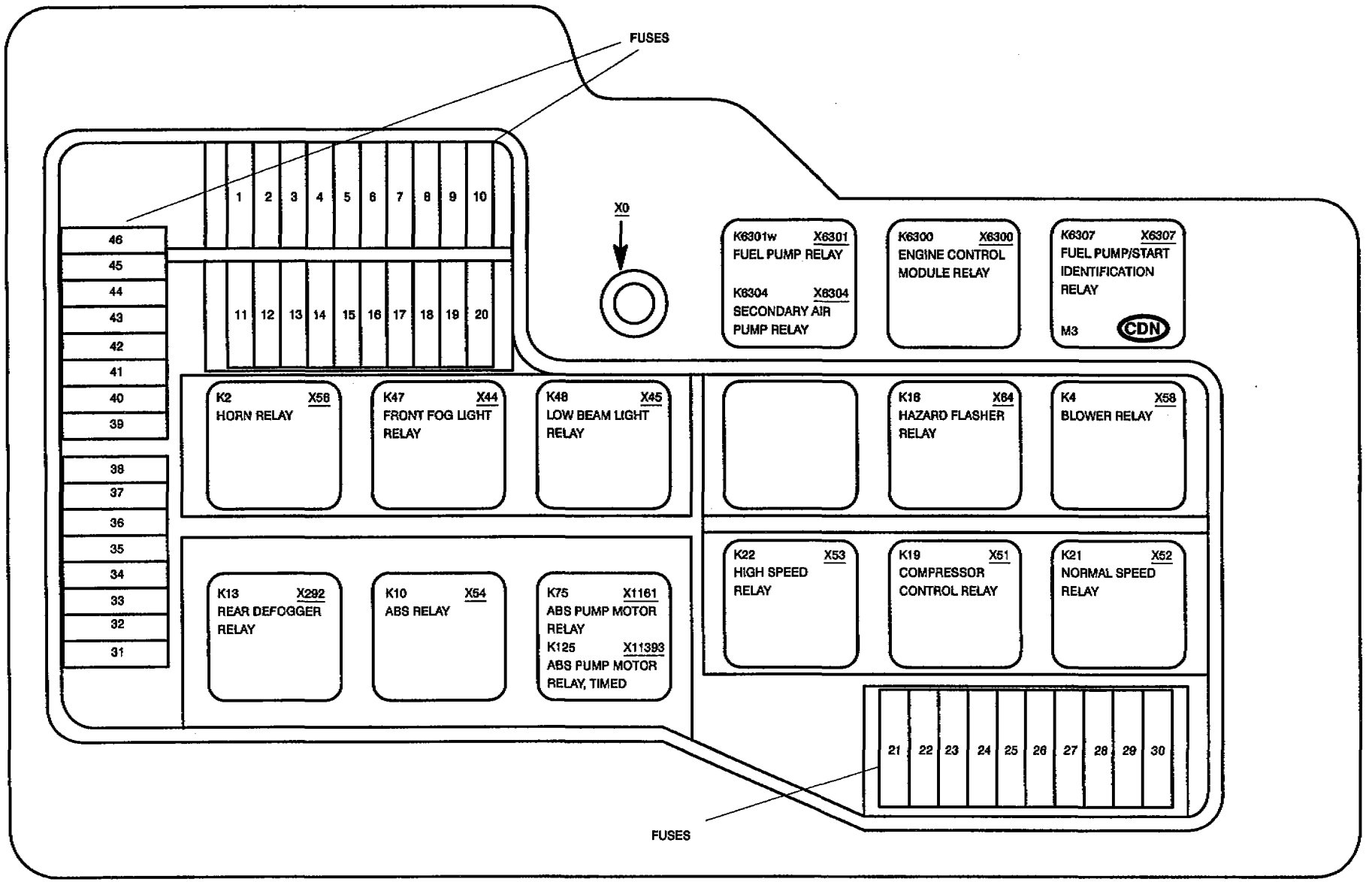

HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18
17
X252
N1
ANTI-THEFT
CONTROL
MODULE (DWA)
A2
INSTRUMENT
CLUSTER
RXD
11
X16
.5 WS/GE
CIRCUIT REFERENCE–A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT
DATA LINK
0670.5
A1
GENERAL MODULE
2
X332
GROUND
DISTRIBUTION
0670.4
X497
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497
N9
RADIO
15
X18128
1.5 BR
L
0670.0-03
CURRENT PATH IS CONTINUED AS LABELED
0670.0-02
L
1.5 BR
X491
ARROW SHOWS DIRECTION OF CURRENT FLOW AND IS REPEATED WHERE CURRENT PATH CONTINUES

SYMBOLS
BLOCK DIAGRAM



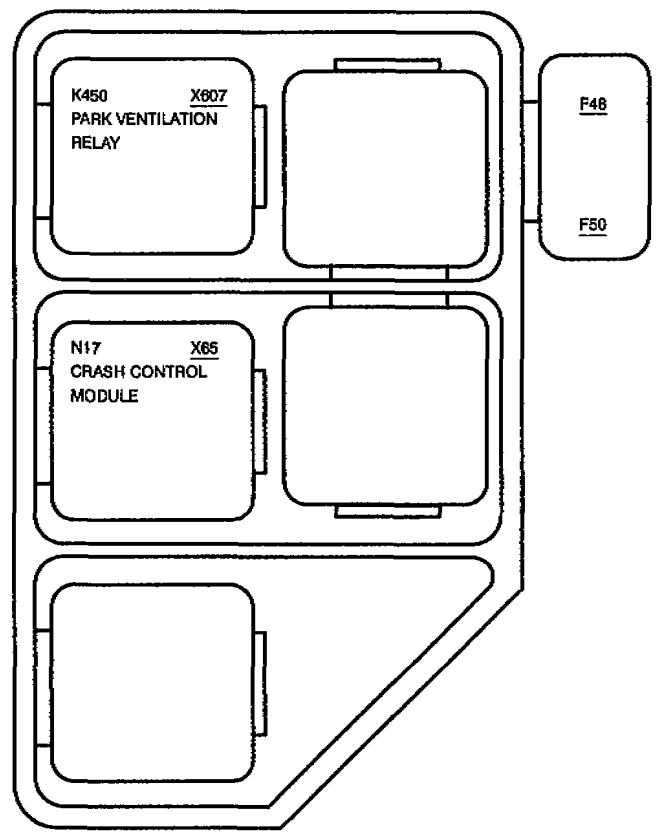
POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX



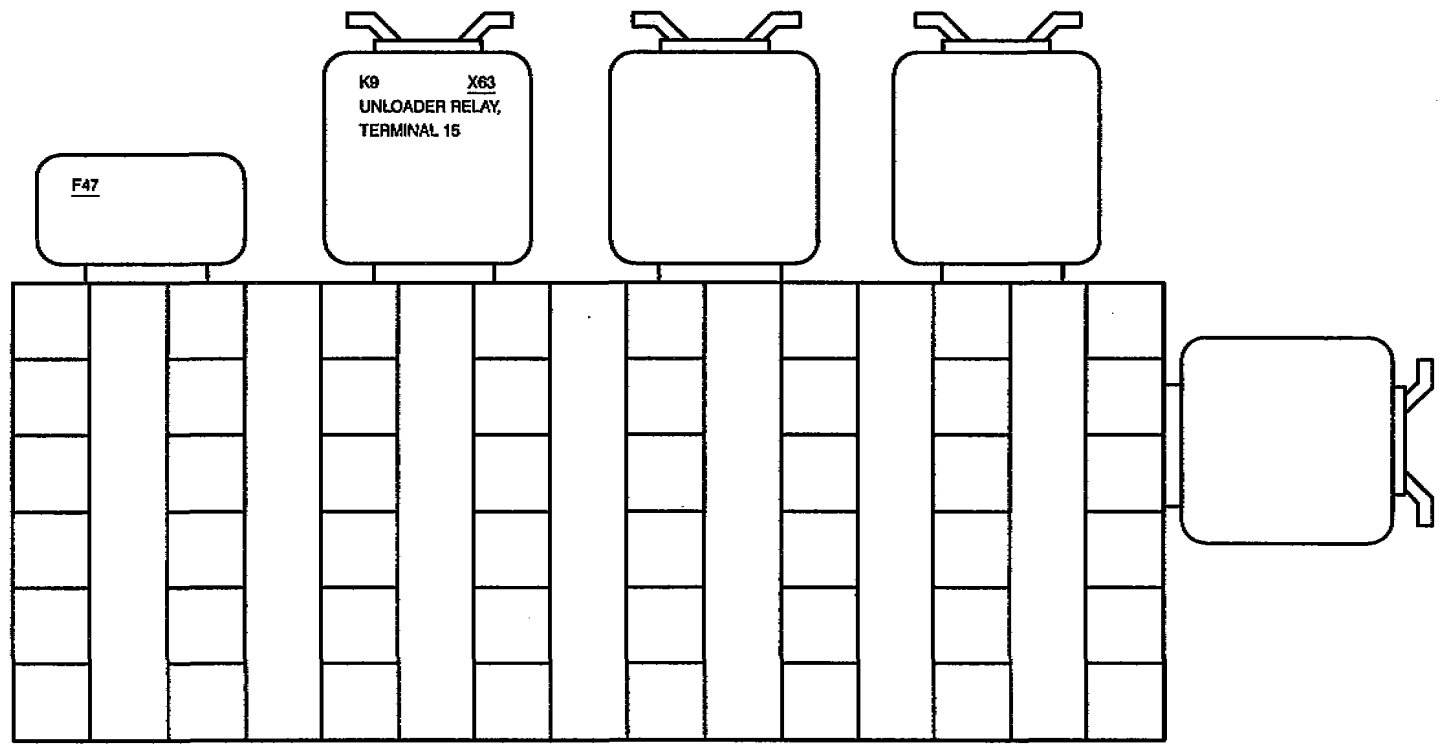
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



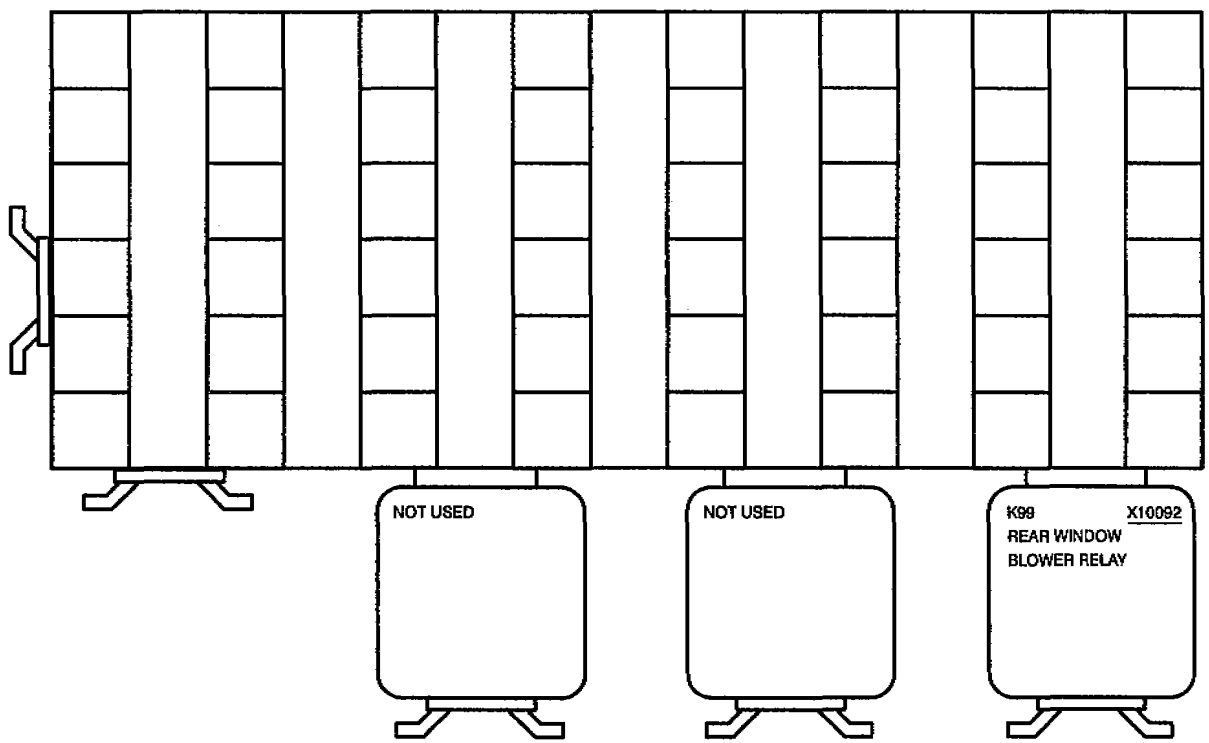
POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)																●		●										●	
1210.10	ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)																●		●										●	
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)																●		●										●	
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)																●		●											
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)																●		●											
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)																●		●											
1230.0	CHARGING SYSTEM																													
1240.0	START																										●		●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																										●		●	
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																										●			
3450.0	SLIP CONTROL (ABS)										●											●		●				●		
3450.1	SLIP CONTROL (ABS/ASC)										●											●					●	●		
5116.0	POWER MIRRORS																								●					
5126.0	ZKE CENTRAL LOCKING (ZV)							●																			●		●	
5133.1	POWER WINDOWS (FH)														●					●										
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER SUN ROOF (SHD)	●																												
5430.1	ELECTRICAL CONVERTIBLE TOP							●																				●		

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)							●							●															
6133.0	HORN								●																					
6135.0	DRIVE–AWAY PROTECTION (EWS II)																												●	
6160.1	WIPER/WASHER MODULE (WWM)			●																										
6167.1	HEADLIGHT WASHER (SRA)			●																										
6211.0	INSTRUMENT CLUSTER																							●				●		
6213.2	MULTI–FUNCTION CLOCK																							●			●	●		
6214.0	ON–BOARD DISPLAY																							●				●		
6300.0	LIGHT SWITCH DETAILS																						●			●				
6312.0	HEADLIGHTS/FOG LIGHTS											●	●			●		●						●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL/UNDERHOOD LIGHTS																													
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS							●																						
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER																													
6350.0	CRASH CONTROL MODULE																													
6412.5	PARK VENTILATION WITH IHKR																				●									
6424.0	REAR WINDOW DEFOGGER/ANTENNA						●																	●						

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)																●				●			●						
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)																●				●			●						
6510.0	RADIO/CD PLAYER (PROVISIONS)									●																				
6510.1	RADIO/HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI–THEFT SYSTEM (ALPINE)																													
6581.2	ON–BOARD COMPUTER (BC V)											●	●											●			●	●		

FUSE CHART

FUSES 30 TO 48

		FUSE NUMBER																	
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)																			
1210.10	ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)										●									
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)																			
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)										●									
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)										●							●		
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)																			
1230.0	CHARGING SYSTEM																			
1240.0	START																			
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																	●		
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																			
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)													●	●					
3450.0	SLIP CONTROL (ABS)									●								●	●	
3450.1	SLIP CONTROL (ABS/ASC)									●								●		
5116.0	POWER MIRRORS																			
5126.0	ZKE CENTRAL LOCKING (ZV)						●													
5133.1	POWER WINDOWS (FH)																			
5200.0	POWER SEATS											●								
5203.0	HEATED SEATS																			
5410.1	POWER SUN ROOF (SHD)																			
5430.1	ELECTRICAL CONVERTIBLE TOP						●							●	●					

FUSE CHART

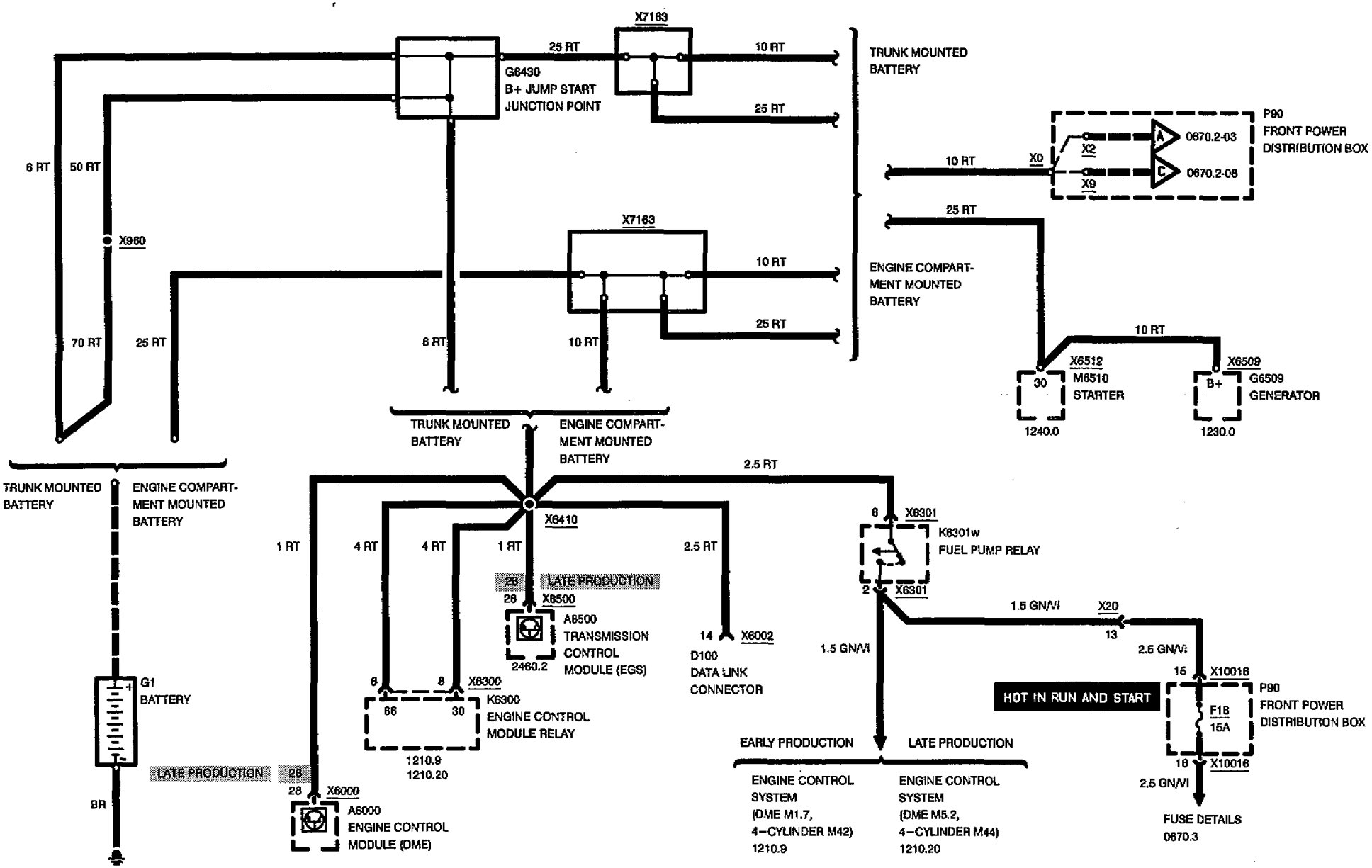
FUSES 30 TO 48

		FUSE NUMBER																	
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		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●					
6133.0	HORN																			
6135.0	DRIVE–AWAY PROTECTION (EWS II)		●															●		
6160.1	WIPER/WASHER MODULE (WWM)							●	●							●				
6167.1	HEADLIGHT WASHER (SRA)							●								●				
6211.0	INSTRUMENT CLUSTER		●															●		
6213.2	MULTI–FUNCTION CLOCK		●														●	●		
6214.0	ON–BOARD DISPLAY		●														●	●		
6300.0	LIGHT SWITCH DETAILS				●				●											
6312.0	HEADLIGHTS/FOG LIGHTS	●																		
6313.0	TURN/HAZARD LIGHTS					●														
6314.0	PARK/TAIL/UNDERHOOD LIGHTS				●				●											
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS				●				●											
6322.0	BACK UP LIGHTS																			
6325.0	BRAKE LIGHTS																	●		
6330.3	INTERIOR LIGHTS				●										●					
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER			●	●				●							●				
6350.0	CRASH CONTROL MODULE					●														
6412.5	PARK VENTILATION WITH IHKR																			
6424.0	REAR WINDOW DEFOGGER/ANTENNA																			

FUSE CHART

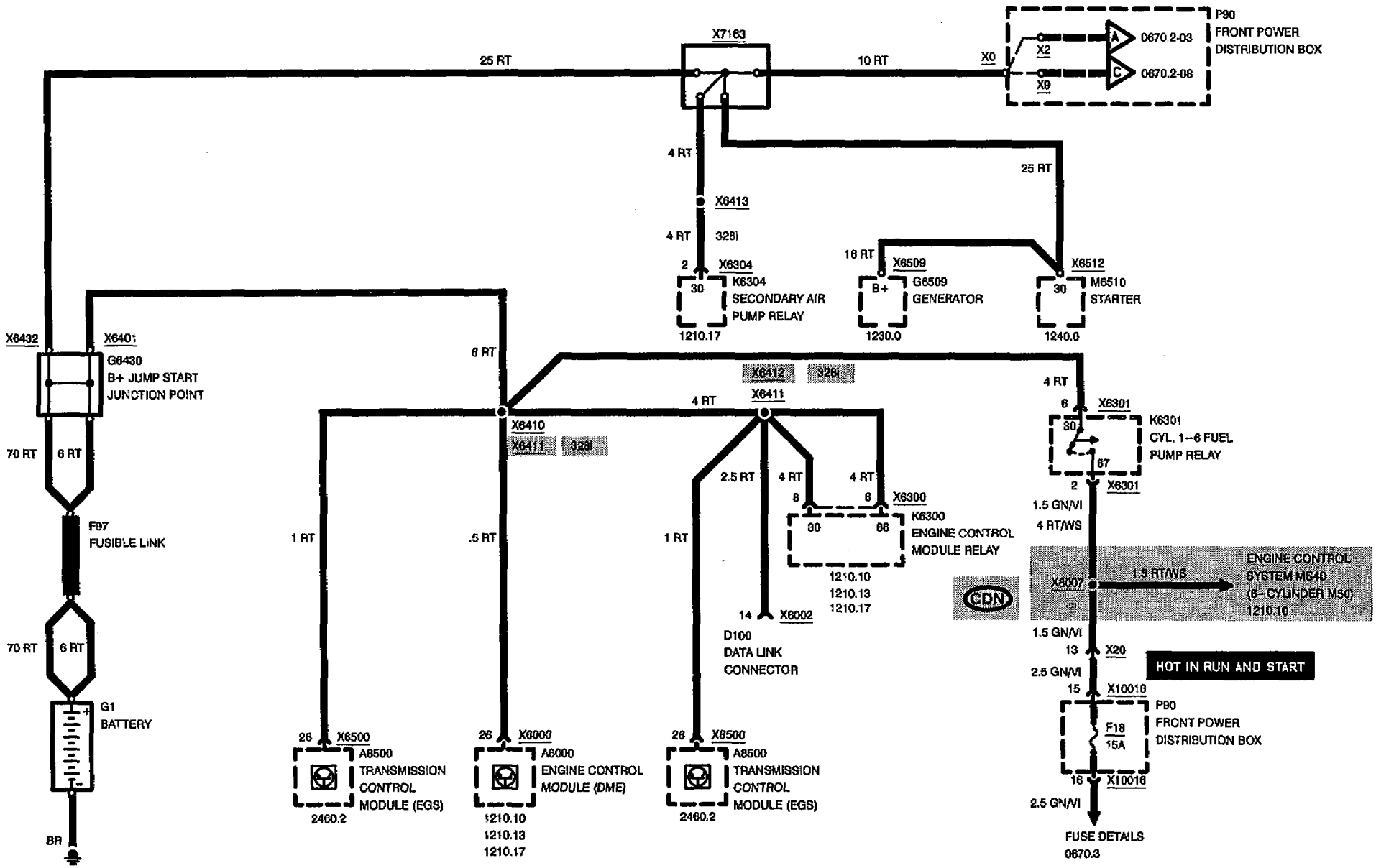
FUSES 30 TO 48

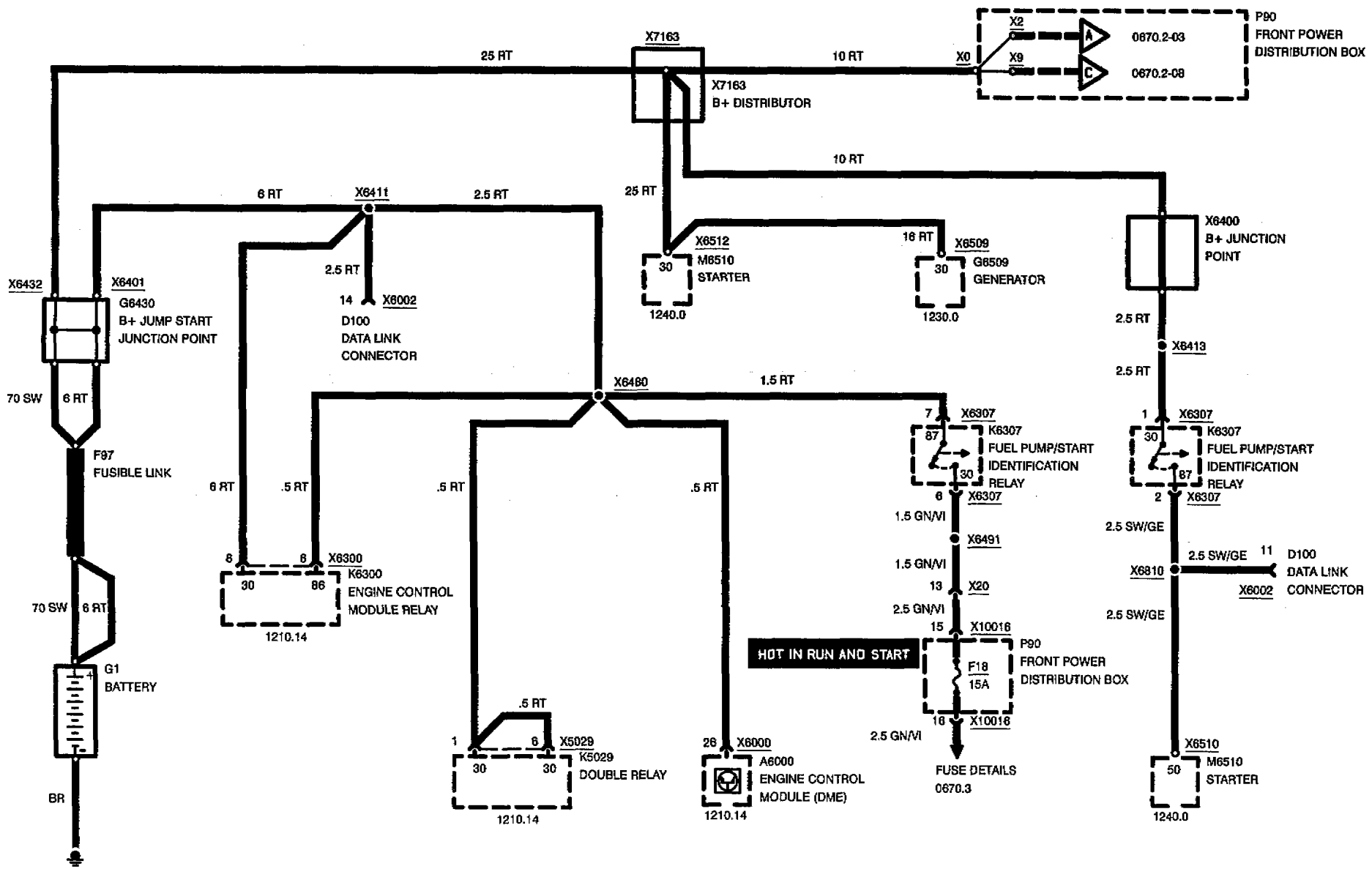
		FUSE NUMBER																	
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)		●						●		●		●							●
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)		●								●		●							●
6510.0	RADIO/CD PLAYER (PROVISIONS)															●				
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●					
6571.0	CRUISE CONTROL (TEMPOMAT)																	●		
6575.2	ANTI-THEFT SYSTEM (ALPINE)														●				●	
6581.2	ON-BOARD COMPUTER (BC V)		●		●				●								●			


X7163
25 RT
10 RT
25 RT
G6430
B+ JUMP START
JUNCTION POINT
TRUNK MOUNTED BATTERY
6 RT
50 RT
X960
70 RT
25 RT
X7163
10 RT
25 RT
6 RT
10 RT
ENGINE COMPART-MENT MOUNTED BATTERY
P90
FRONT POWER
DISTRIBUTION BOX
10 RT
X0
X2
X9
A
C
0670.2-03
0670.2-08
25 RT
10 RT
X6512
30
M6510
STARTER
1240.0
X6509
B+
G6509
GENERATOR
1230.0
TRUNK MOUNTED BATTERY
ENGINE COMPART-MENT MOUNTED BATTERY
2.5 RT
X6410
1 RT
4 RT
4 RT
1 RT
2.5 RT
26
LATE PRODUCTION
28
X8500
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
2460.2
14
X6002
D100
DATA LINK
CONNECTOR
6
X6301
K6301w
FUEL PUMP RELAY
2
X6301
1.5 GN/VI
X20
13
2.5 GN/VI
15
X10016
HOT IN RUN AND START
F16
15A
16
X10016
2.5 GN/VI
P90
FRONT POWER
DISTRIBUTION BOX
FUSE DETAILS
0670.3
8
8
X6300
86
30
K6300
ENGINE CONTROL
MODULE RELAY
1210.9
1210.20
G1
BATTERY
BR
LATE PRODUCTION
26
28
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1.5 GN/VI
EARLY PRODUCTION
LATE PRODUCTION
ENGINE CONTROL SYSTEM
(DME M1.7,
4–CYLINDER M42)
1210.9
ENGINE CONTROL SYSTEM
(DME M5.2,
4–CYLINDER M44)
1210.20

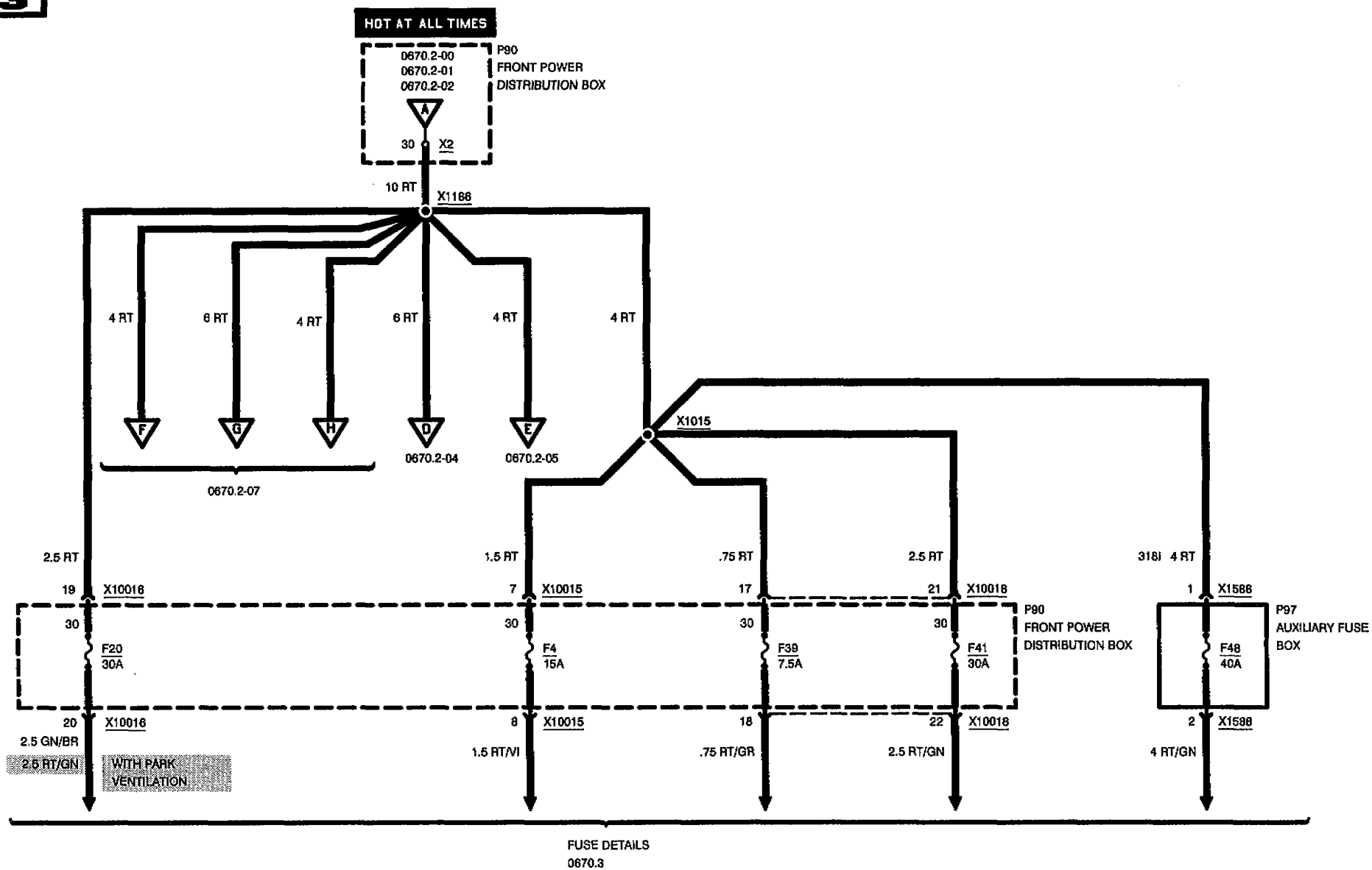
POWER DISTRIBUTION

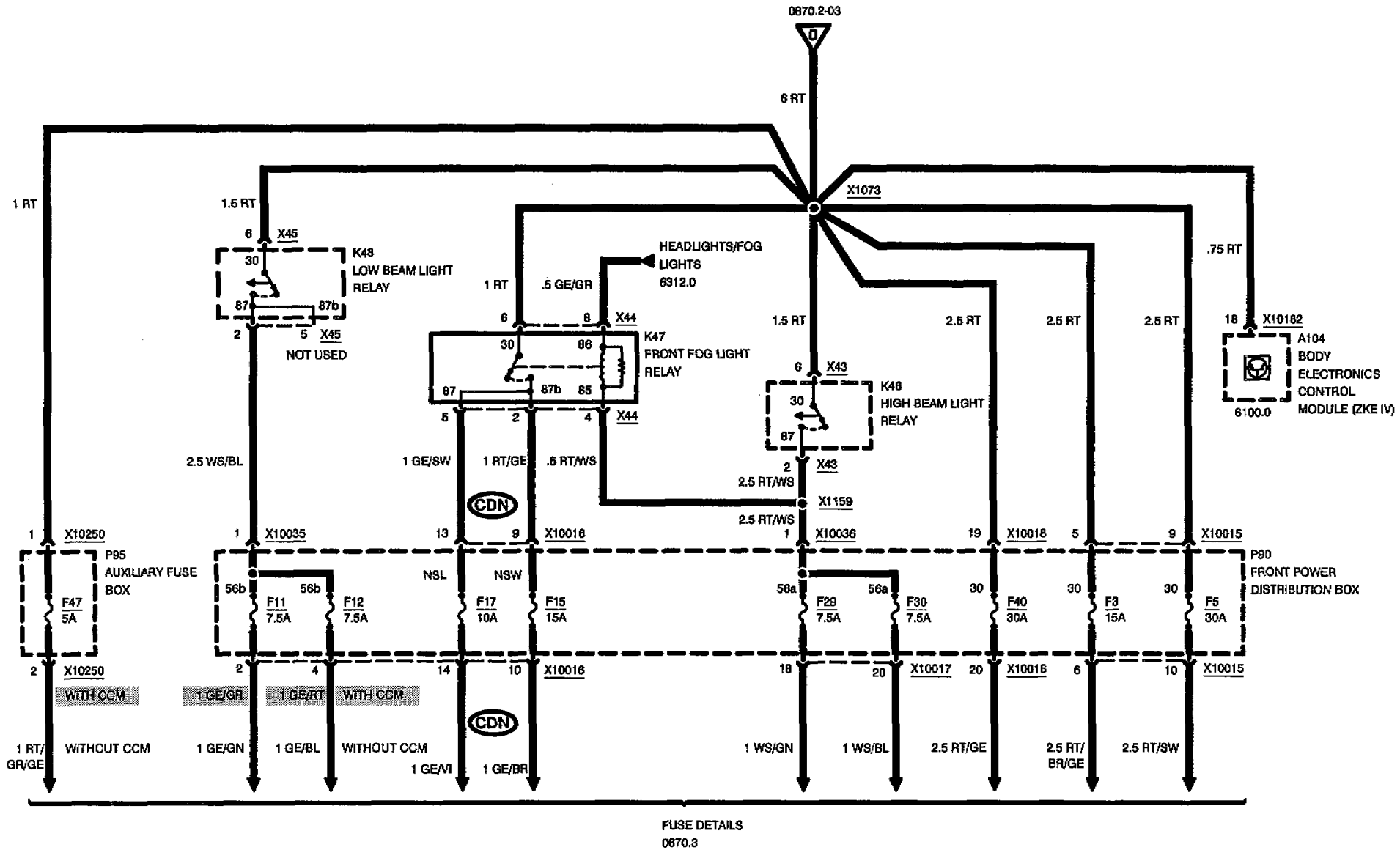
320i (CDN), 325i, 328i



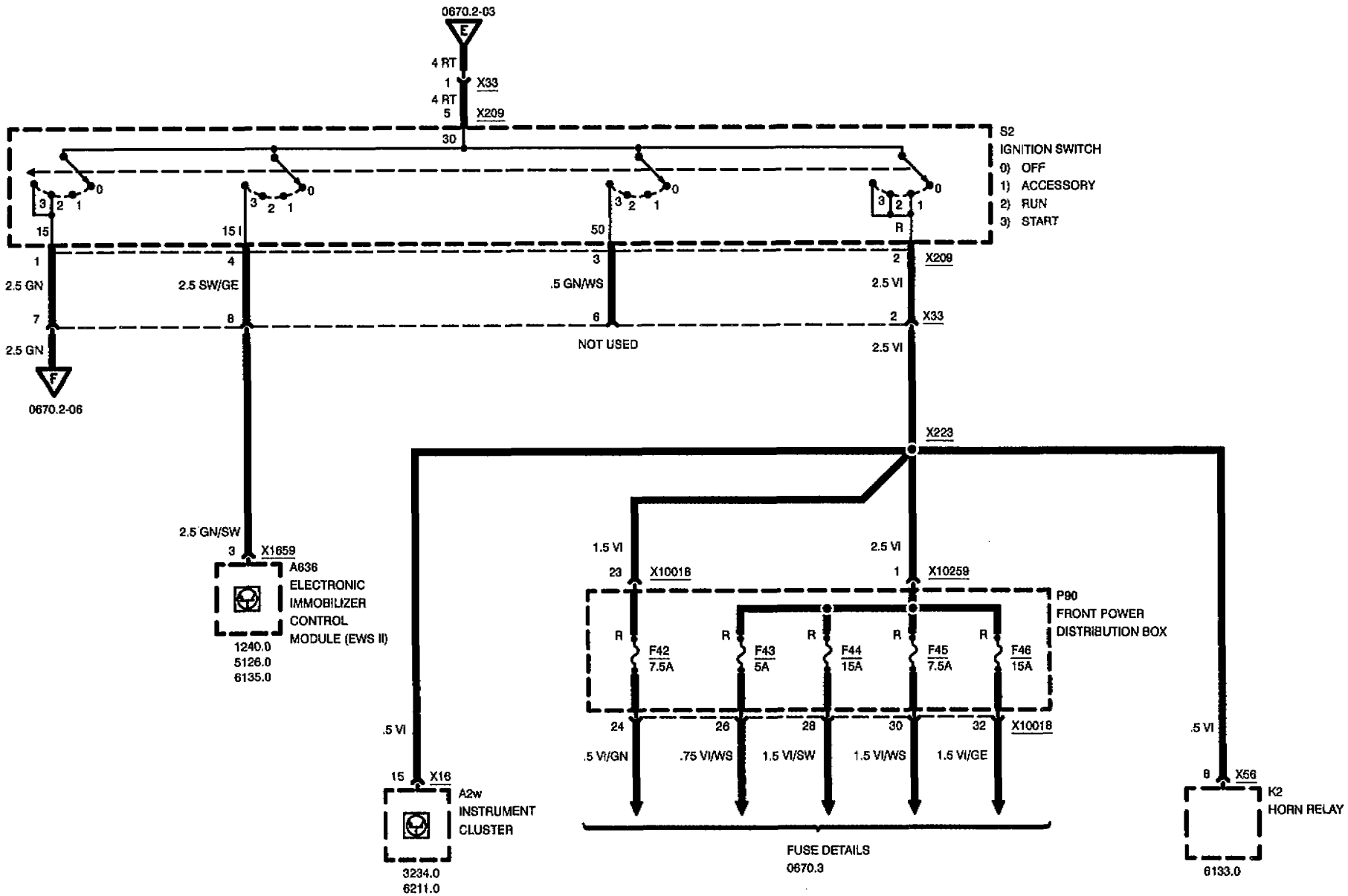

X7163
25 RT
10 RT
X0
X2
X9
A
C
0670.2-03
0670.2-08
P90
FRONT POWER
DISTRIBUTION BOX
X7163
B+ DISTRIBUTOR
10 RT
25 RT
6 RT
X6411
2.5 RT
X6512
30
M6510
STARTER
1240.0
16 RT
X6509
30
G6509
GENERATOR
1230.0
X6400
B+ JUNCTION
POINT
X6432
X6401
G6430
B+ JUMP START
JUNCTION POINT
2.5 RT
14
X6002
D100
DATA LINK
CONNECTOR
2.5 RT
X6413
2.5 RT
70 SW
6 RT
X6480
1.5 RT
7
X6307
87
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
30
6
X6307
1.5 GN/VI
X6491
1.5 GN/VI
13
X20
2.5 GN/VI
15
X10016
1
X6307
30
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
87
2
X6307
2.5 SW/GE
2.5 SW/GE
11
D100
DATA LINK
X6810
X6002
CONNECTOR
2.5 SW/GE
F97
FUSIBLE LINK
6 RT
.5 RT
.5 RT
.5 RT
8
6
X6300
30
86
K6300
ENGINE CONTROL
MODULE RELAY
1210.14
70 SW
6 RT
G1
BATTERY
BR
.5 RT
1
6
X5029
30
30
K5029
DOUBLE RELAY
1210.14
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.14
HOT IN RUN AND START
F18
15A
16
X10016
2.5 GN/VI
P90
FRONT POWER
DISTRIBUTION BOX
FUSE DETAILS
0670.3
X6510
50
M6510
STARTER
1240.0

POWER DISTRIBUTION

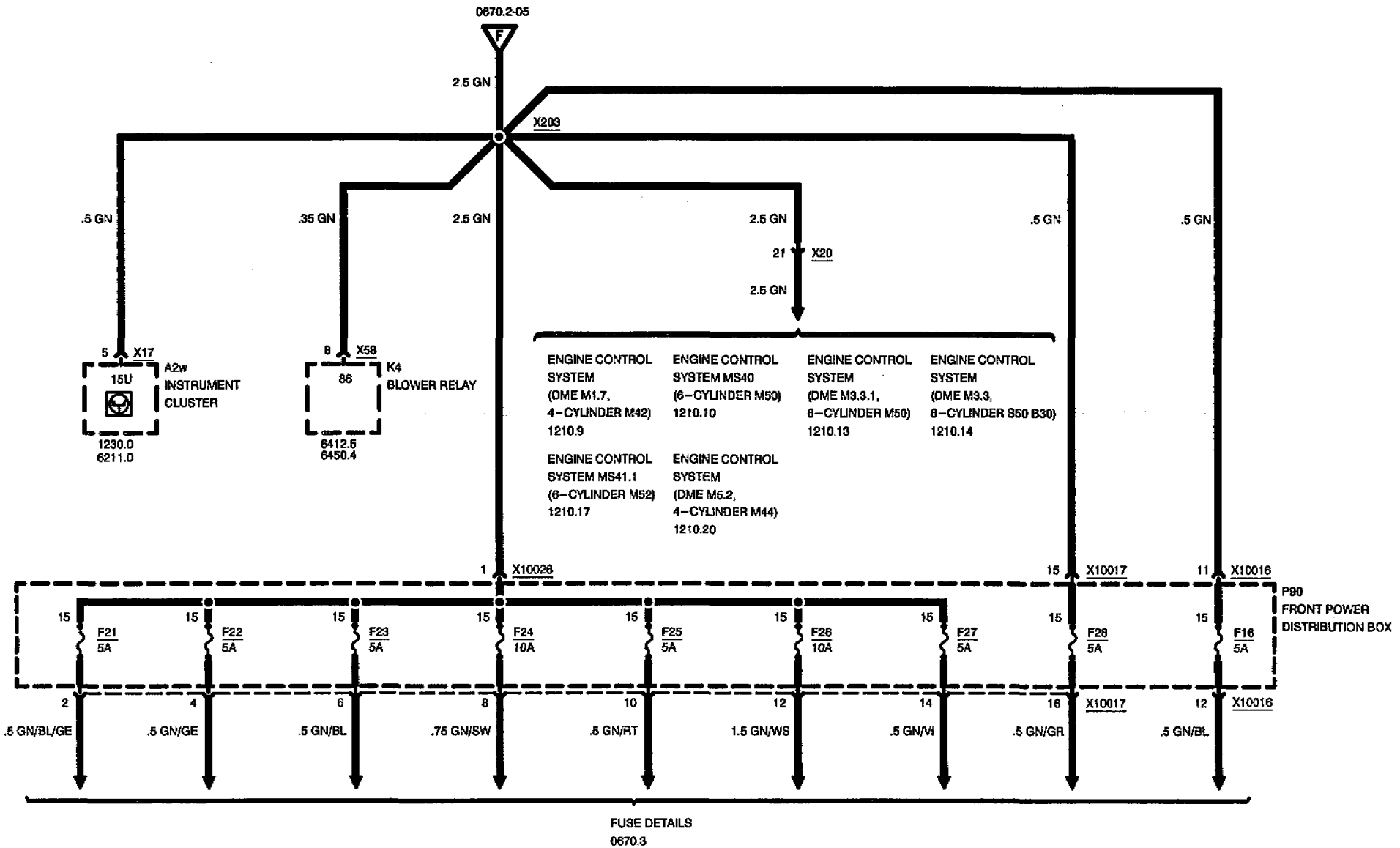



0670.2-03
D
6 RT
X1073
1 RT
1.5 RT
6 X45
30
87 87b
2 5 X45
NOT USED
K48
LOW BEAM LIGHT
RELAY
HEADLIGHTS/FOG
LIGHTS
6312.0
1 RT .5 GE/GR
6 8 X44
30 86
87 87b 85
5 2 4 X44
K47
FRONT FOG LIGHT
RELAY
1.5 RT
2.5 RT
2.5 RT
2.5 RT
.75 RT
18 X10162
A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)
6100.0
6 X43
30
87
2 X43
K46
HIGH BEAM LIGHT
RELAY
2.5 WS/BL
1 GE/SW
1 RT/GE
.5 RT/WS
2.5 RT/WS
X1159
2.5 RT/WS
CDN
1 X10250
1 X10035
13 9 X10018
1 X10036
19 X10018
5 9 X10015
P95
AUXILIARY FUSE
BOX
F47
5A
56b 56b
F11
7.5A
F12
7.5A
NSL
NSW
F17
10A
F15
15A
56a 56a
F29
7.5A
F30
7.5A
30
F40
30A
30
F3
15A
30
F5
30A
P90
FRONT POWER
DISTRIBUTION BOX
2 X10250
2 4 14 10 X10016
18 20 X10017 20 X10018 6 10 X10015
WITH CCM
1 GE/GR
1 GE/RT
WITH CCM
CDN
1 RT/
GR/GE
WITHOUT CCM
1 GE/GN
1 GE/BL
WITHOUT CCM
1 GE/VI
1 GE/BR
1 WS/GN
1 WS/BL
2.5 RT/GE
2.5 RT/
BR/GE
2.5 RT/SW
FUSE DETAILS
0670.3

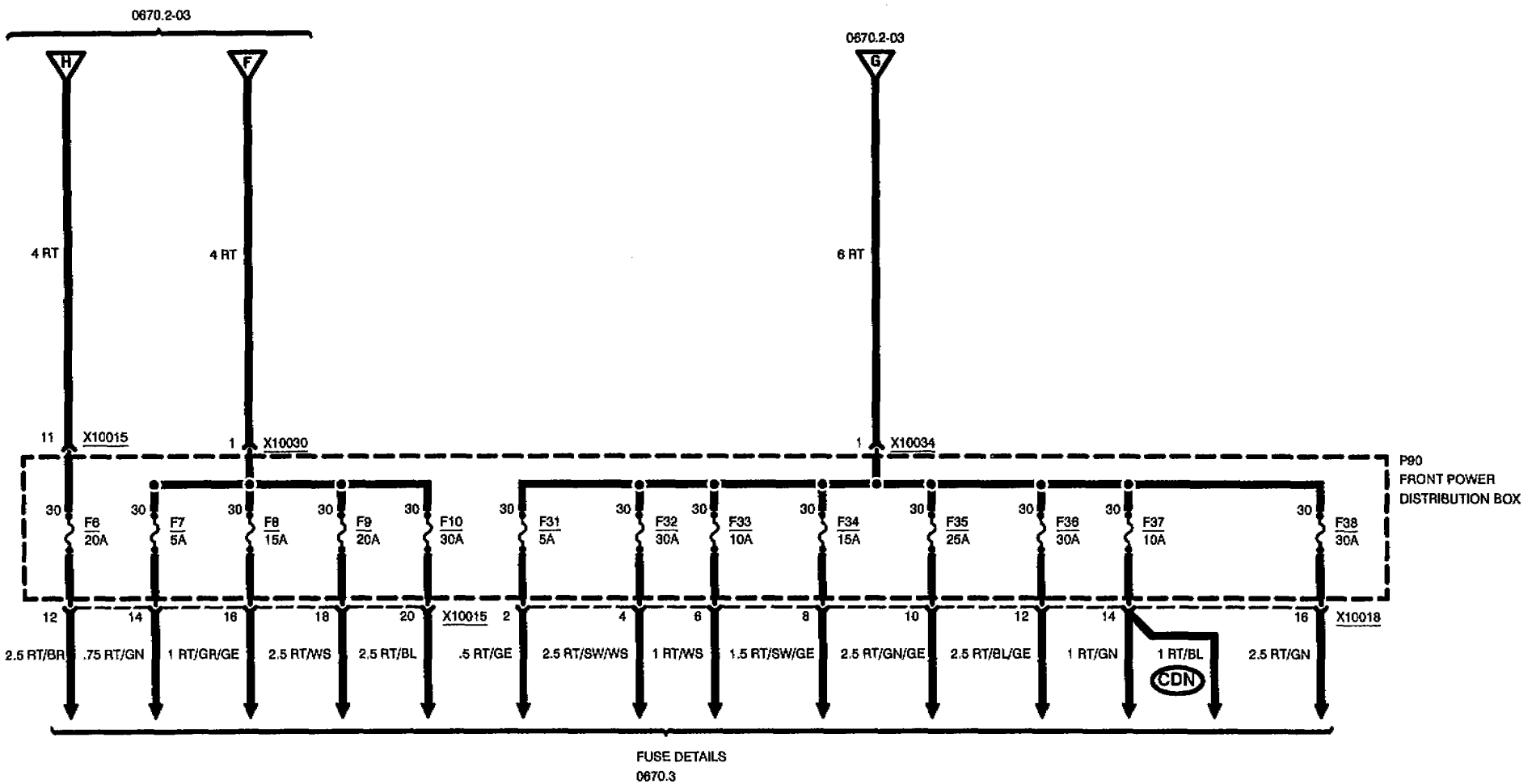
POWER DISTRIBUTION

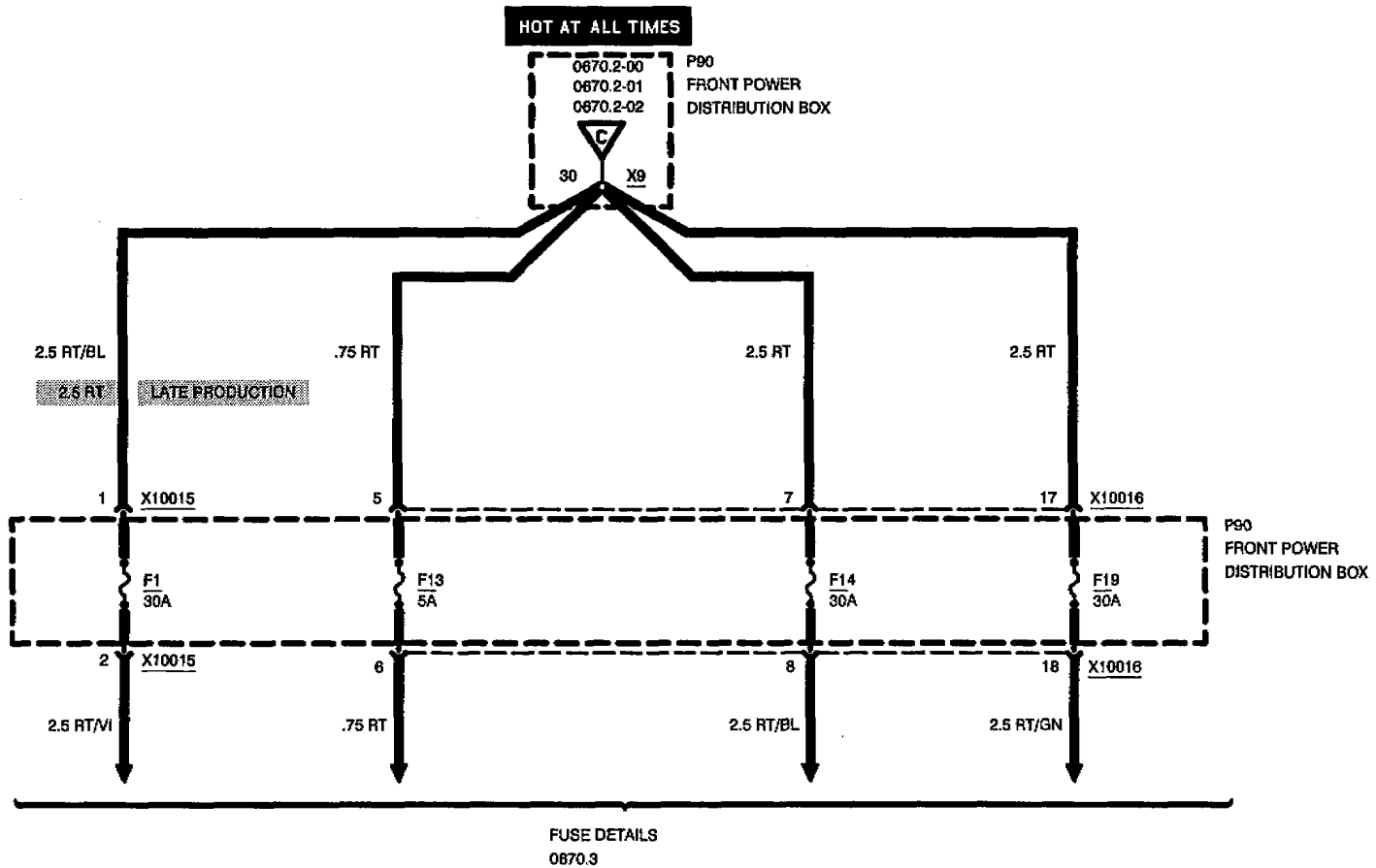


POWER DISTRIBUTION



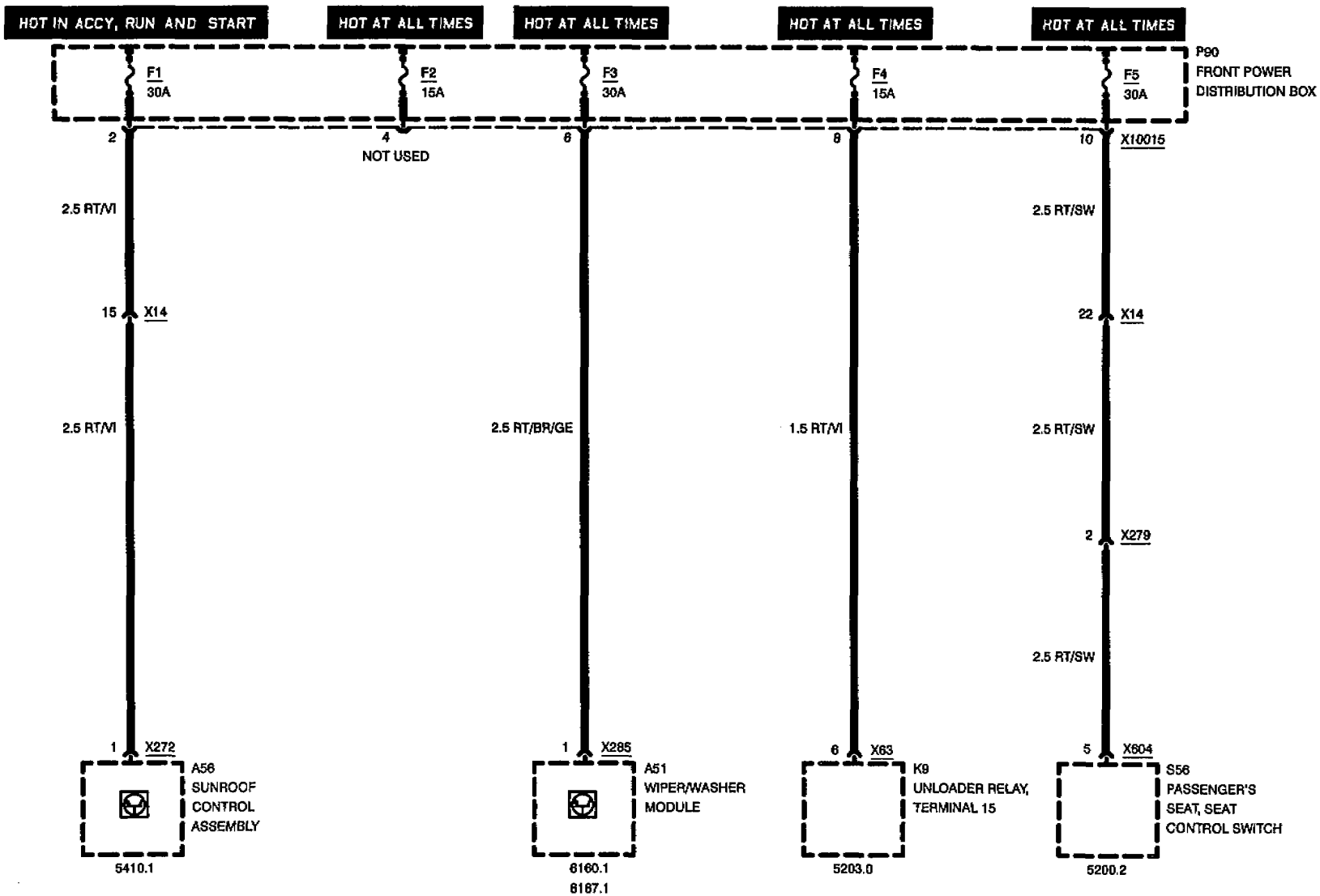
POWER DISTRIBUTION




HOT AT ALL TIMES
0670.2-00
0670.2-01
0670.2-02
P90
FRONT POWER
DISTRIBUTION BOX
C
30
X9
2.5 RT/BL
2.5 RT
LATE PRODUCTION
.75 RT
2.5 RT
2.5 RT
1
X10015
5
7
17
X10016
P90
FRONT POWER
DISTRIBUTION BOX
F1
30A
F13
5A
F14
30A
F19
30A
2
X10015
6
8
18
X10016
2.5 RT/VI
.75 RT
2.5 RT/BL
2.5 RT/GN
FUSE DETAILS
0670.3

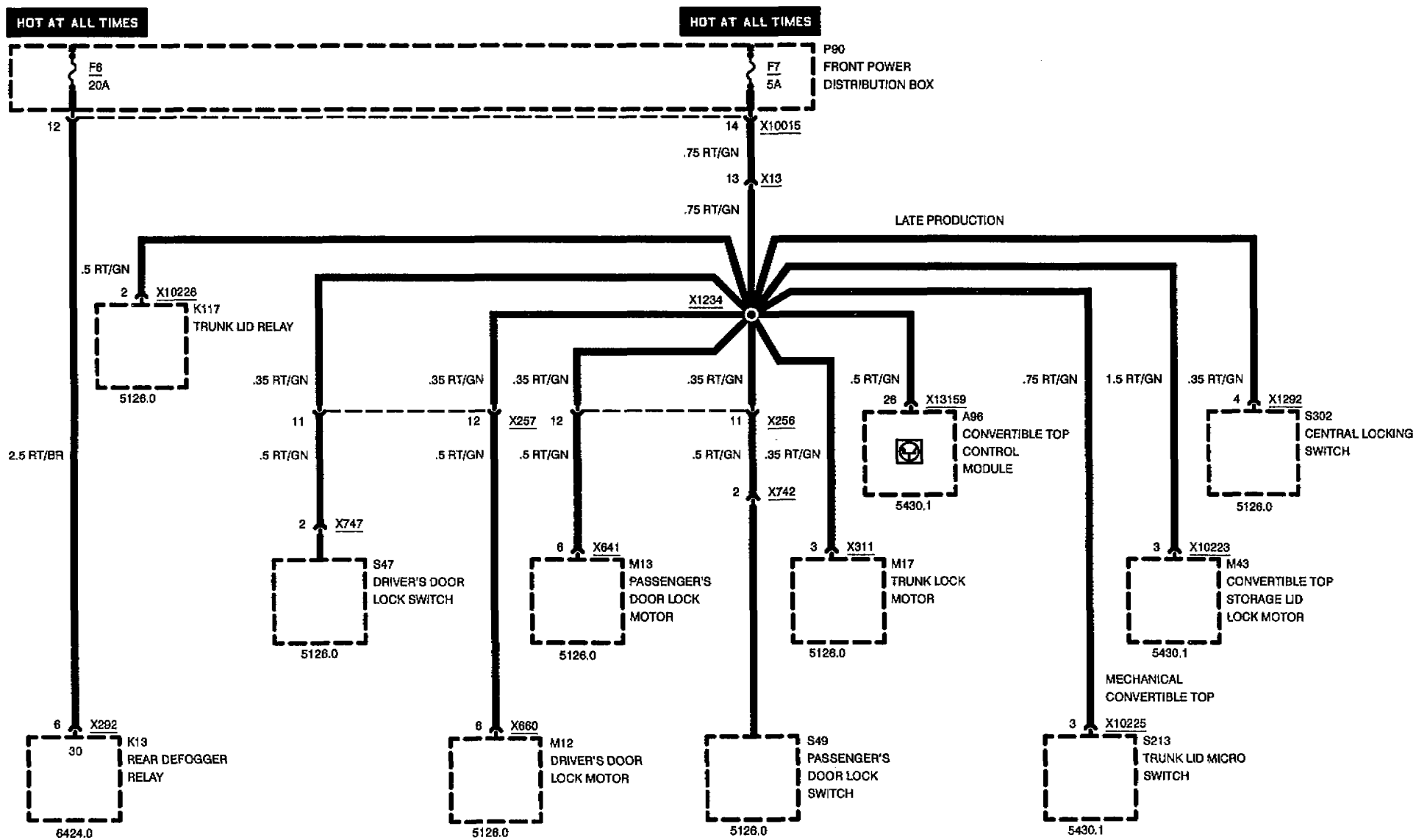
FUSE DETAILS

FUSES 1, 2, 3, 4, AND 5



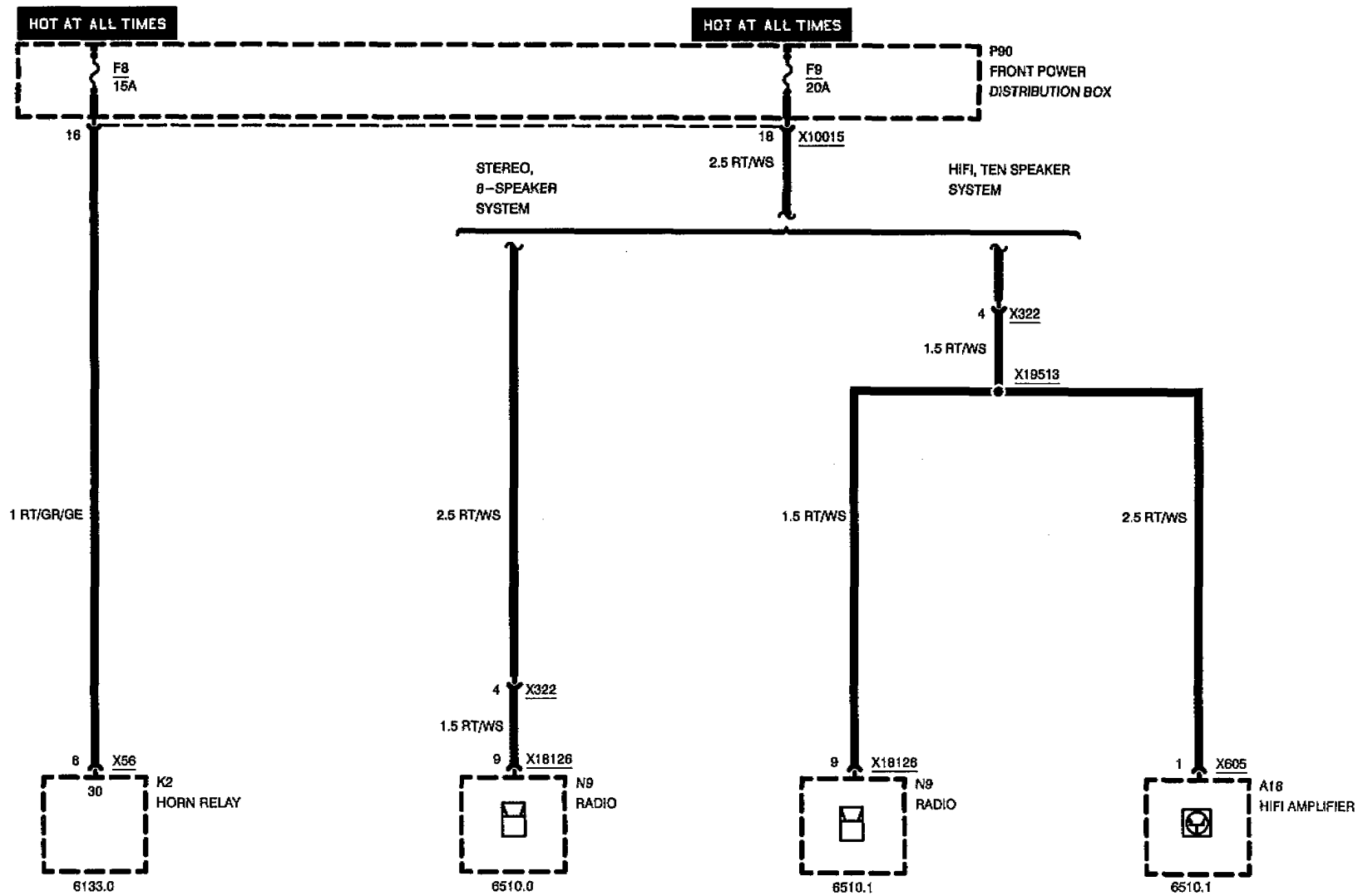
FUSE DETAILS

FUSES 6 AND 7



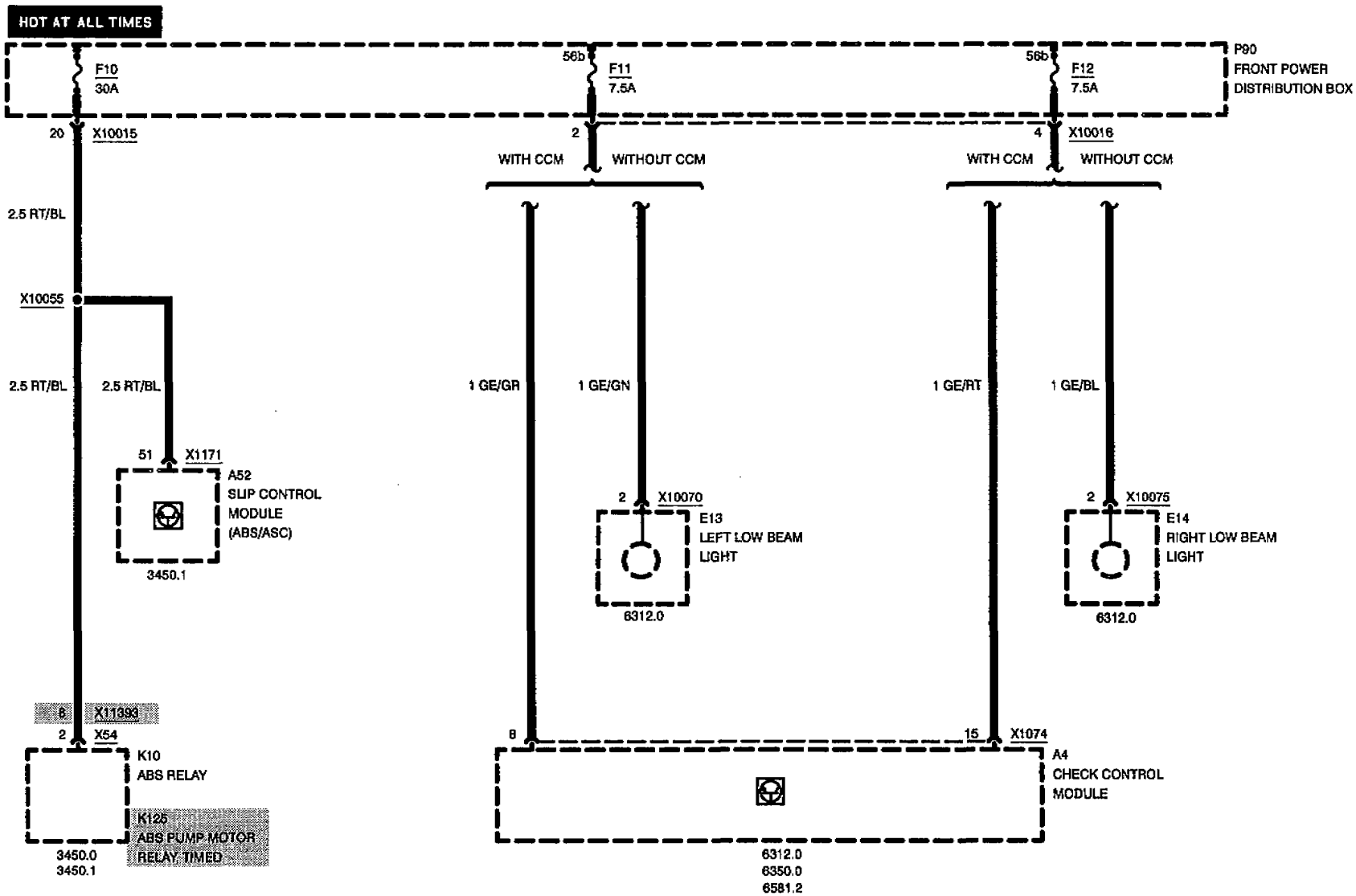
FUSE DETAILS

FUSES 8 AND 9



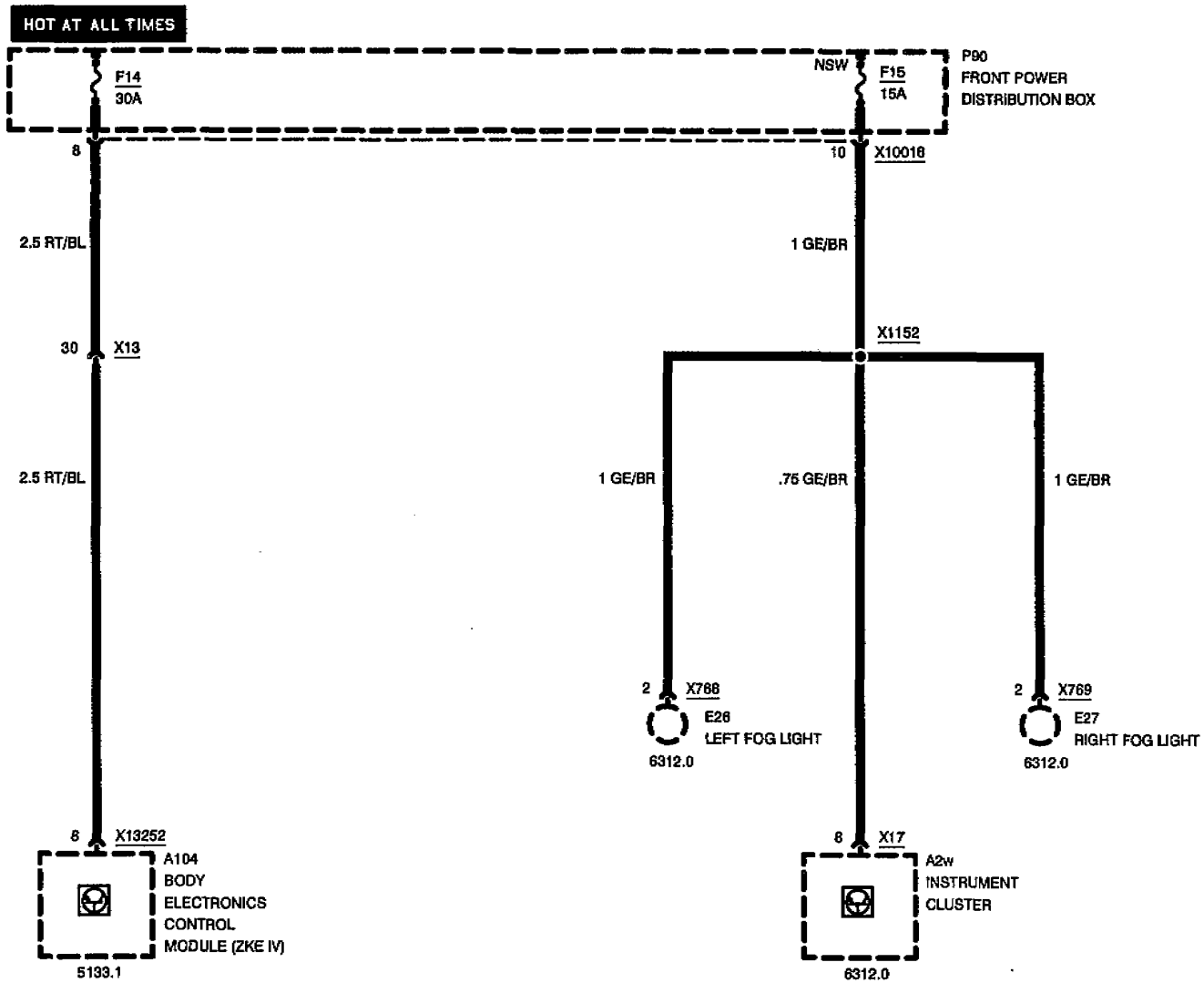
FUSE DETAILS

FUSES 10, 11, AND 12



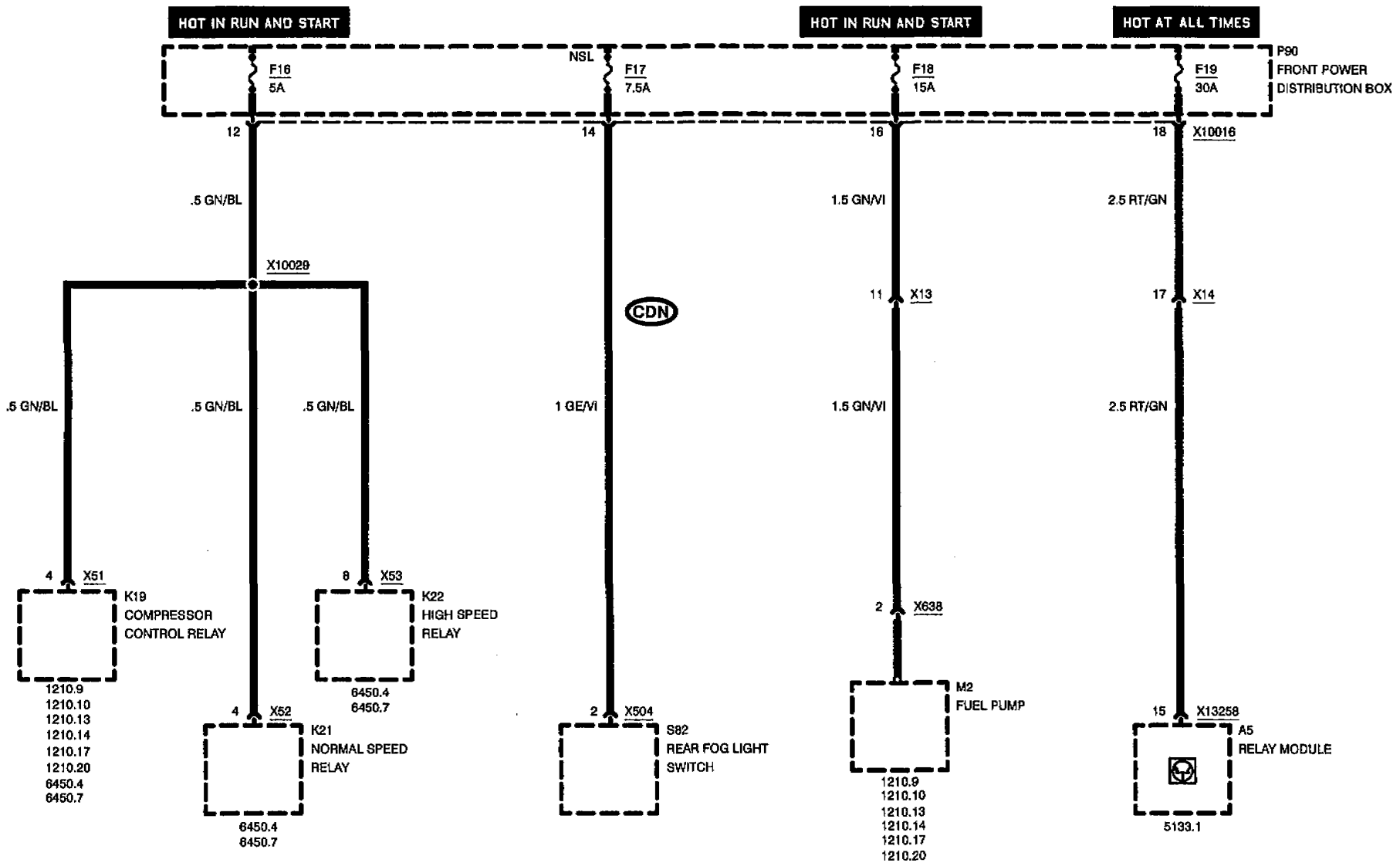
FUSE DETAILS

FUSES 14 AND 15



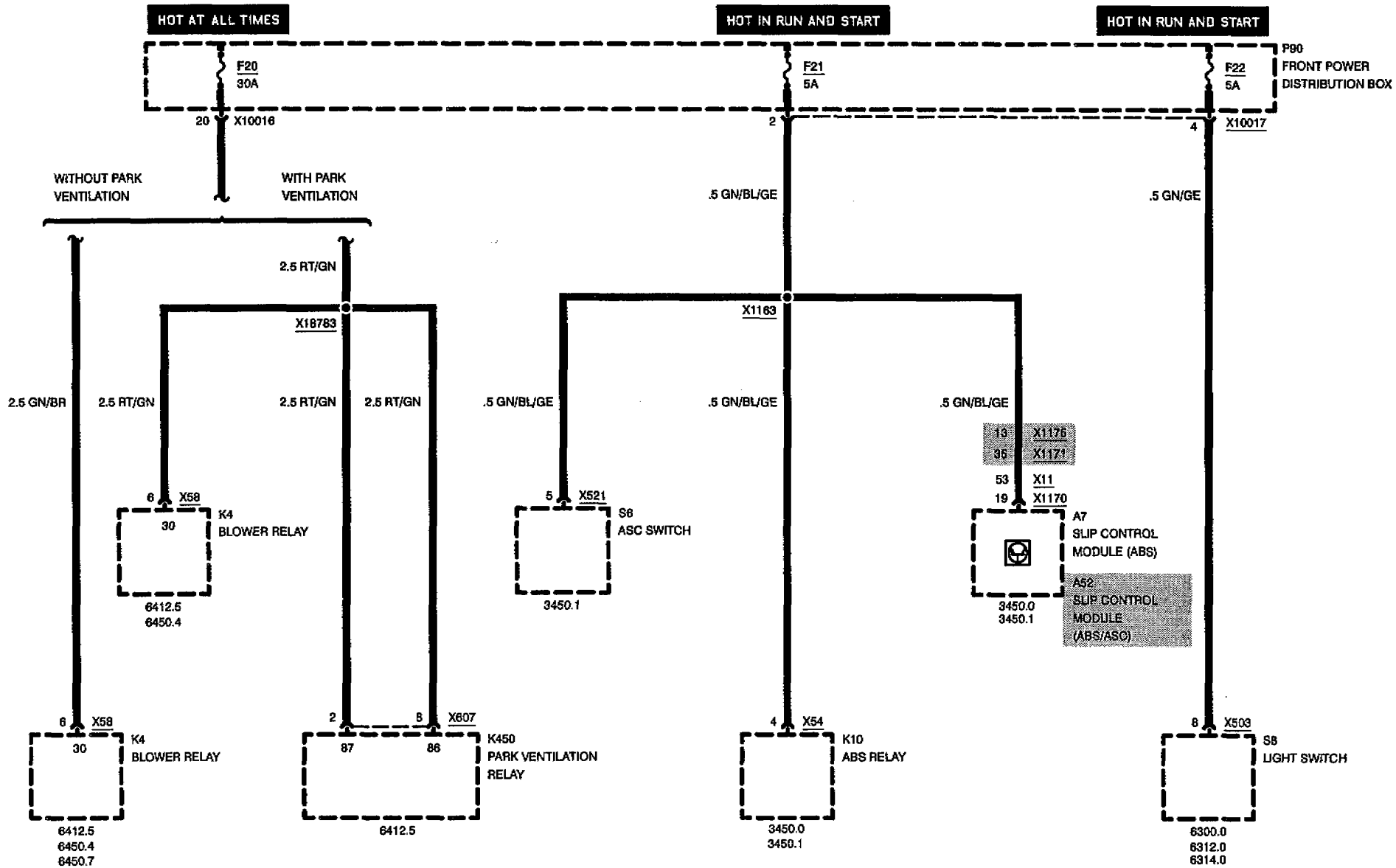
FUSE DETAILS

FUSES 16, 17, 18, AND 19



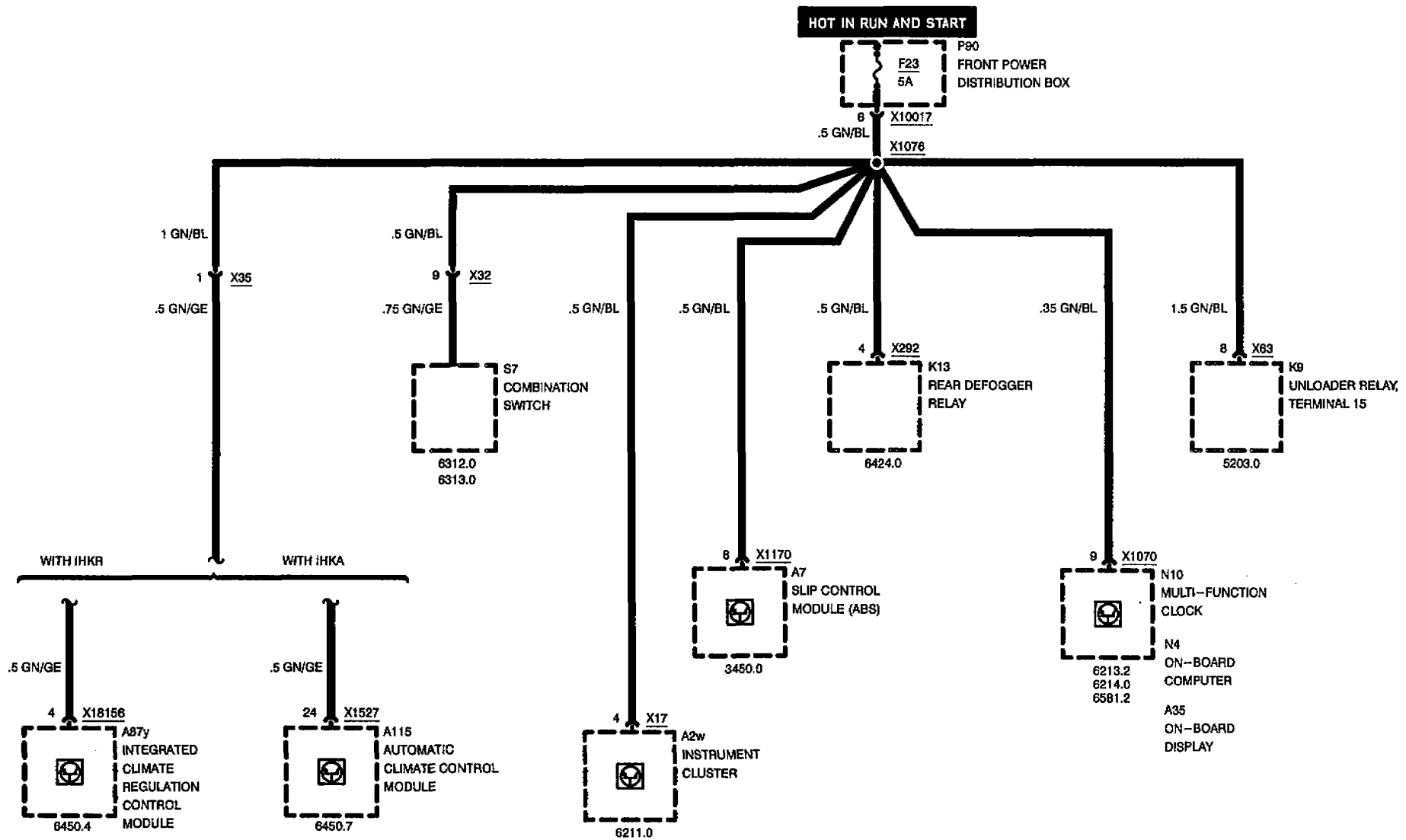
FUSE DETAILS

FUSES 20, 21, AND 22



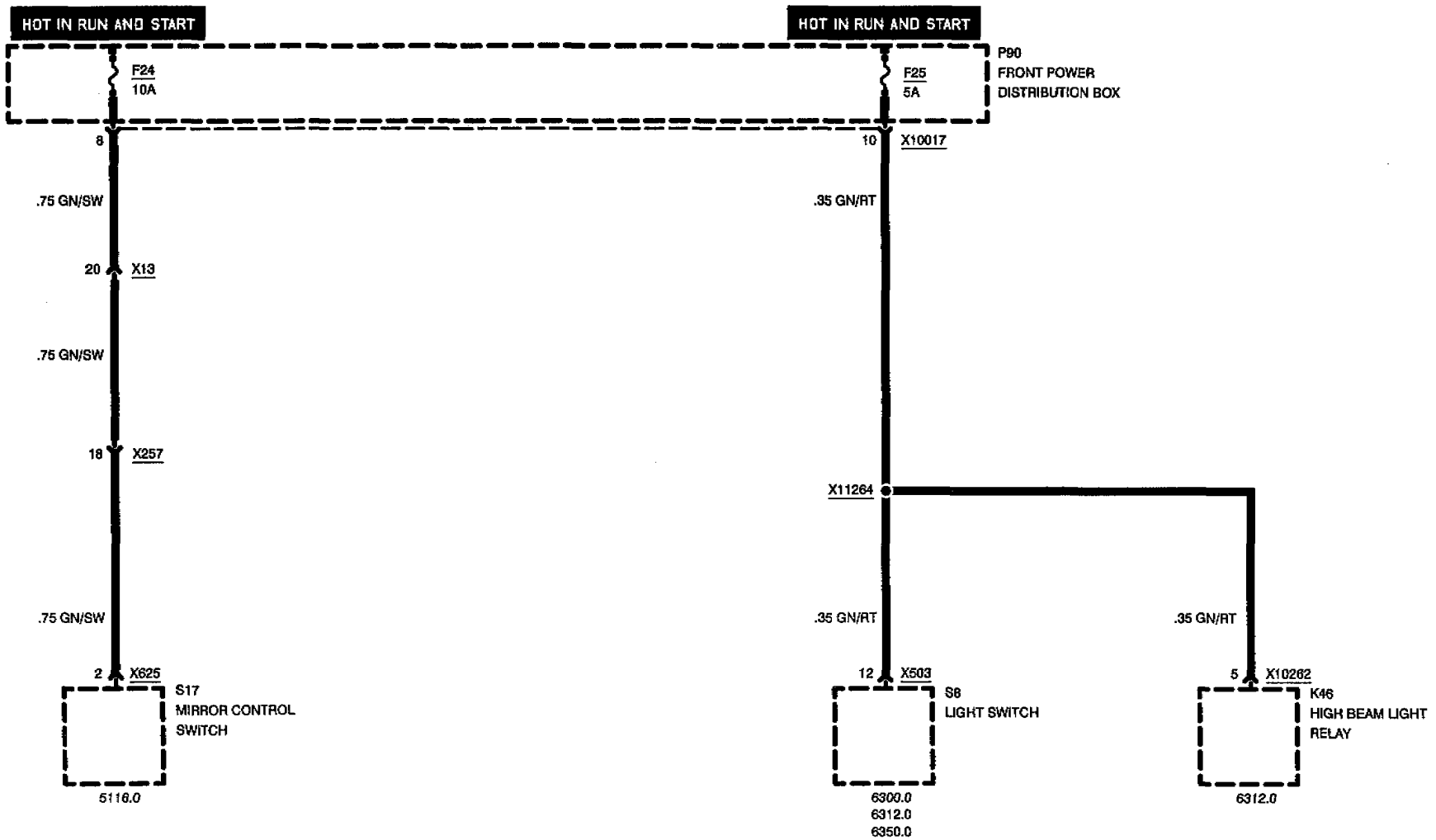
FUSE DETAILS

FUSE 23



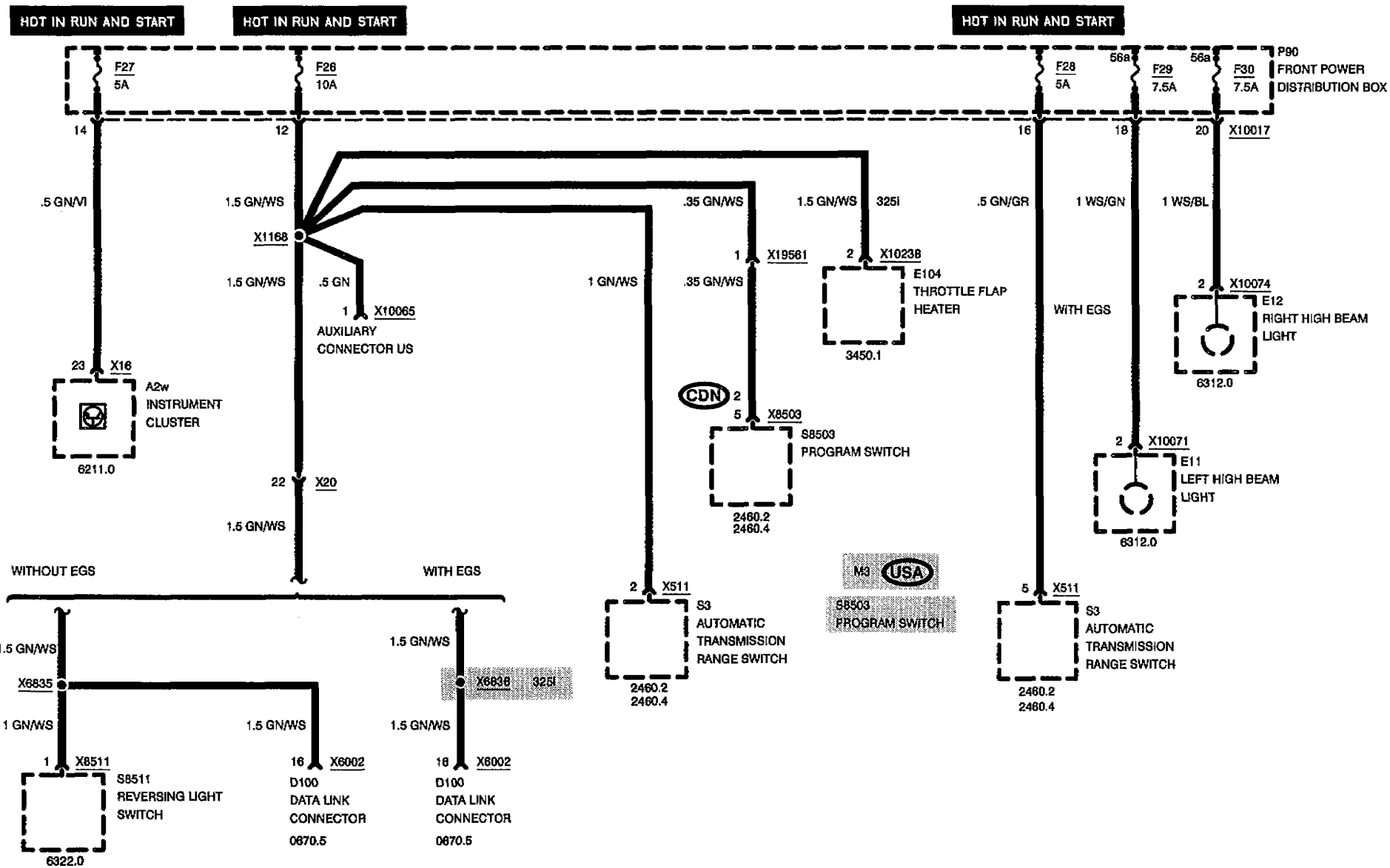
FUSE DETAILS

FUSES 24 AND 25



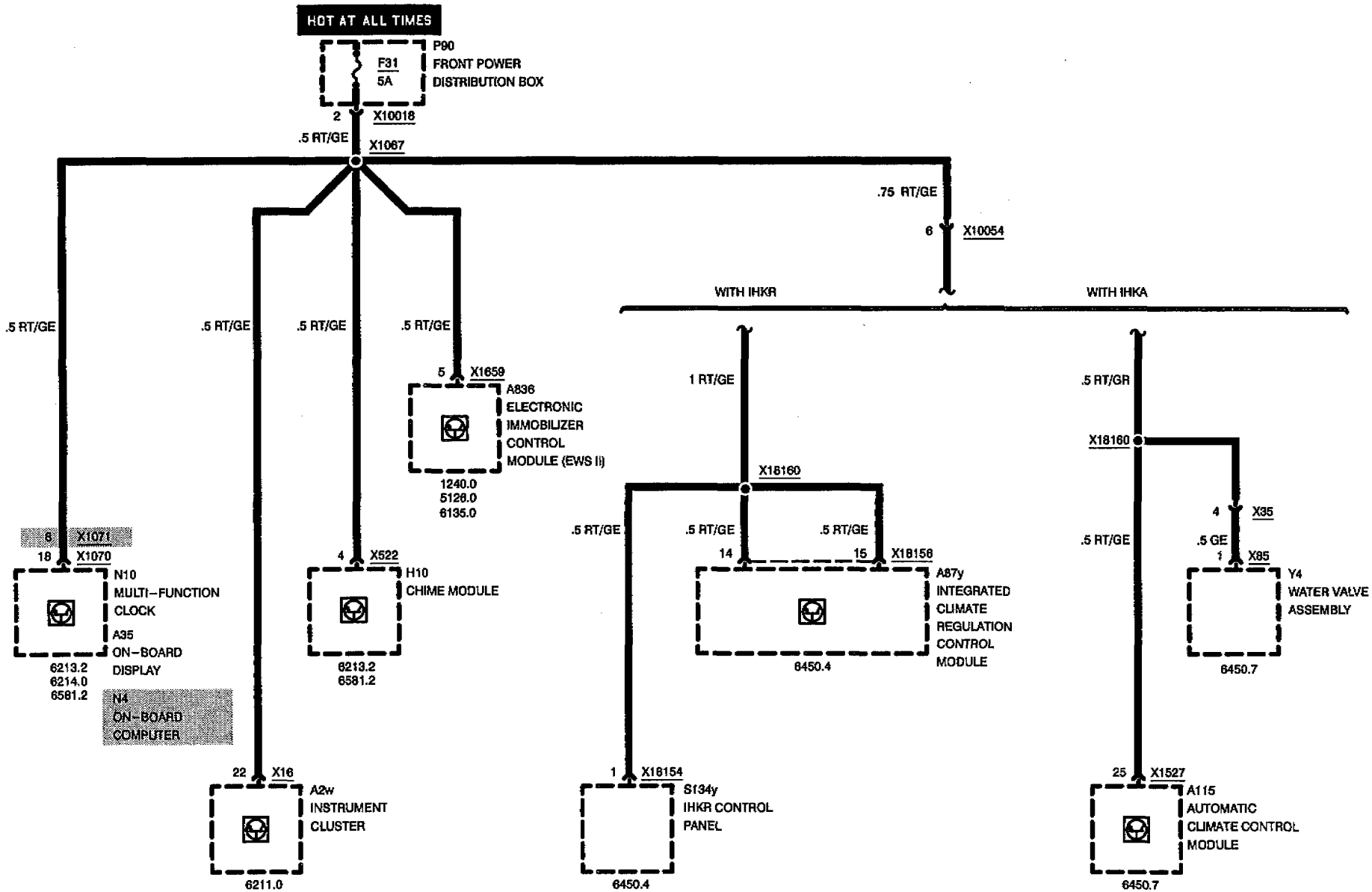
FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30



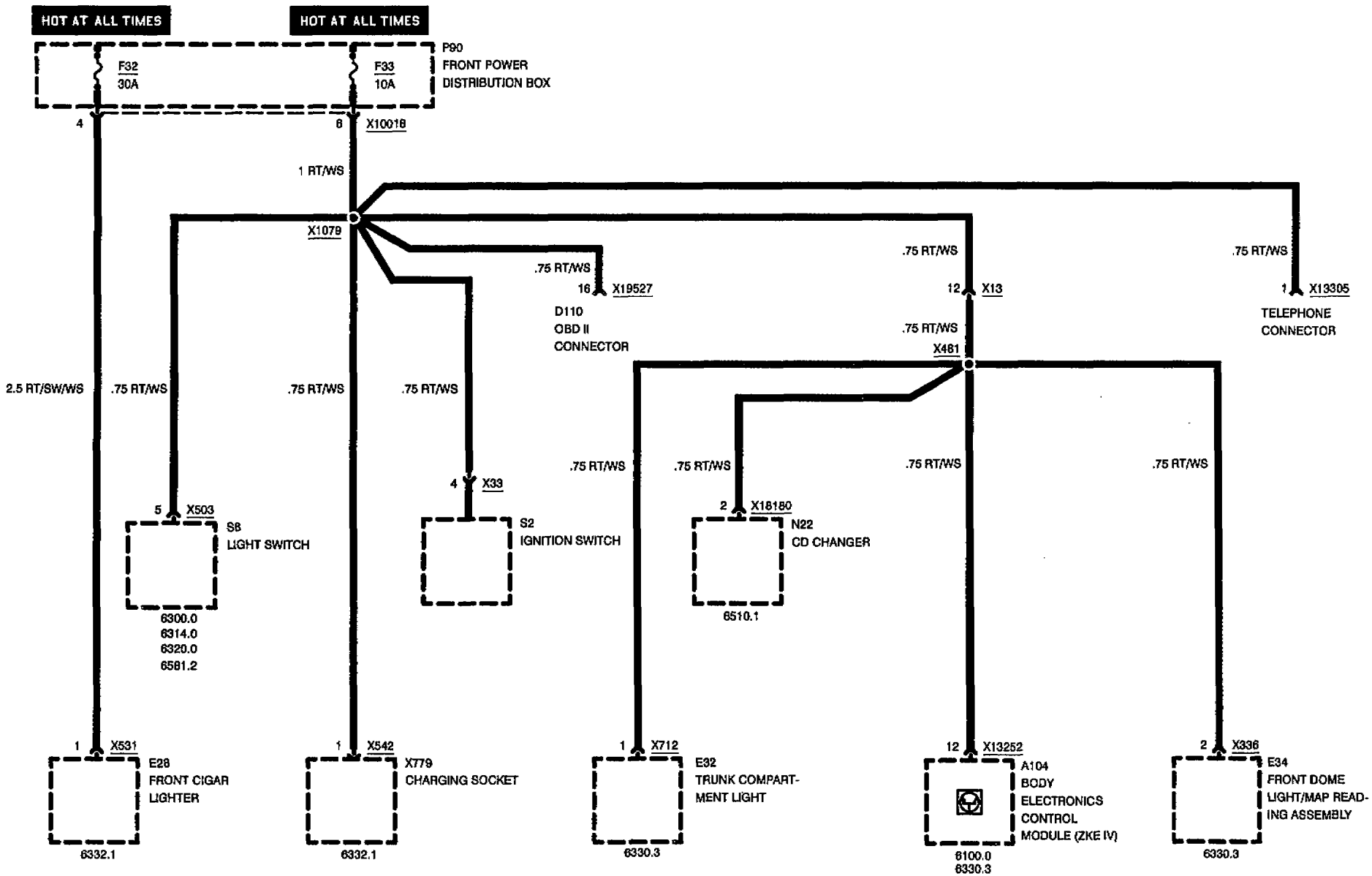
FUSE DETAILS

FUSE 31



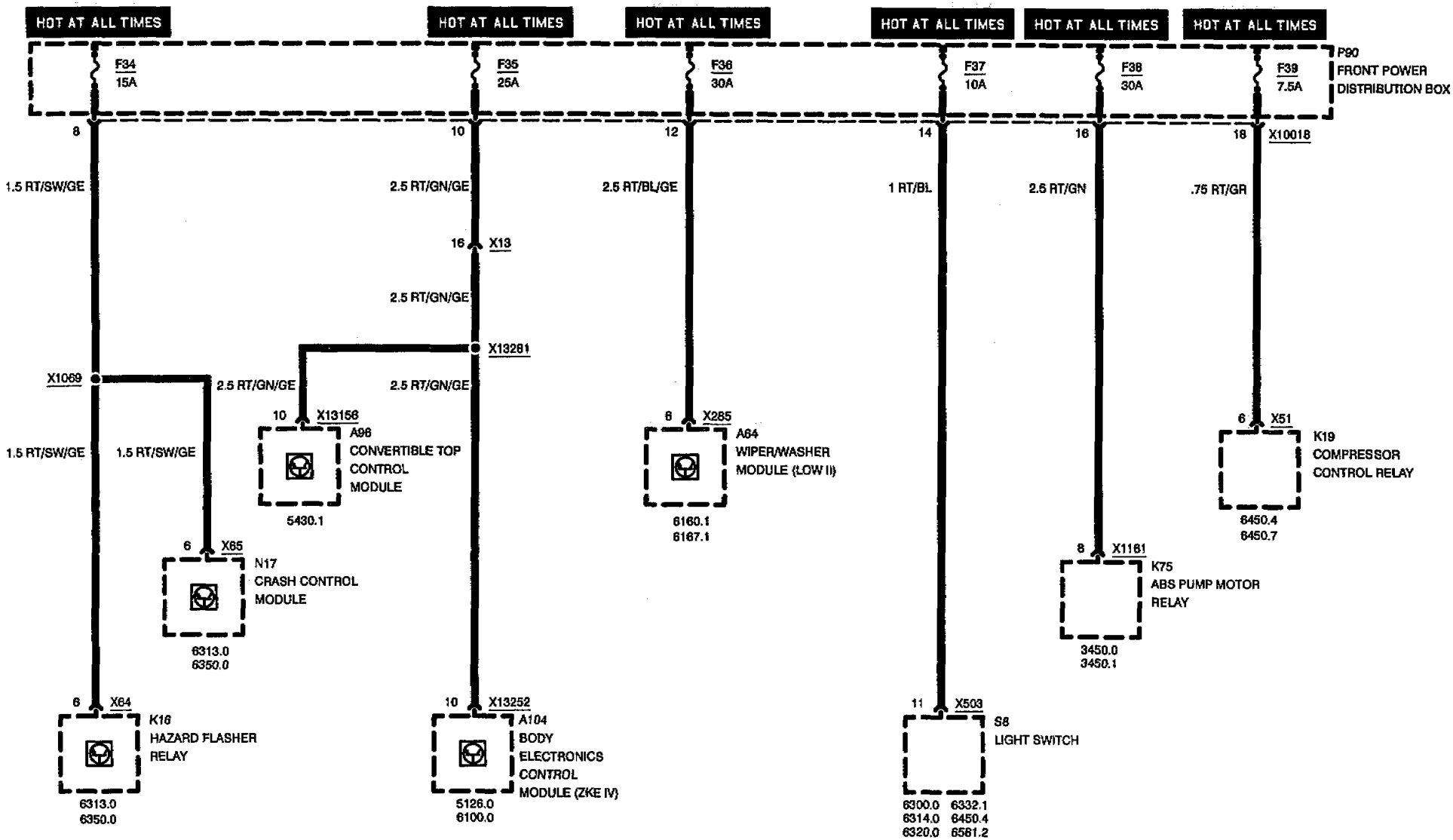
FUSE DETAILS

FUSES 32 AND 33



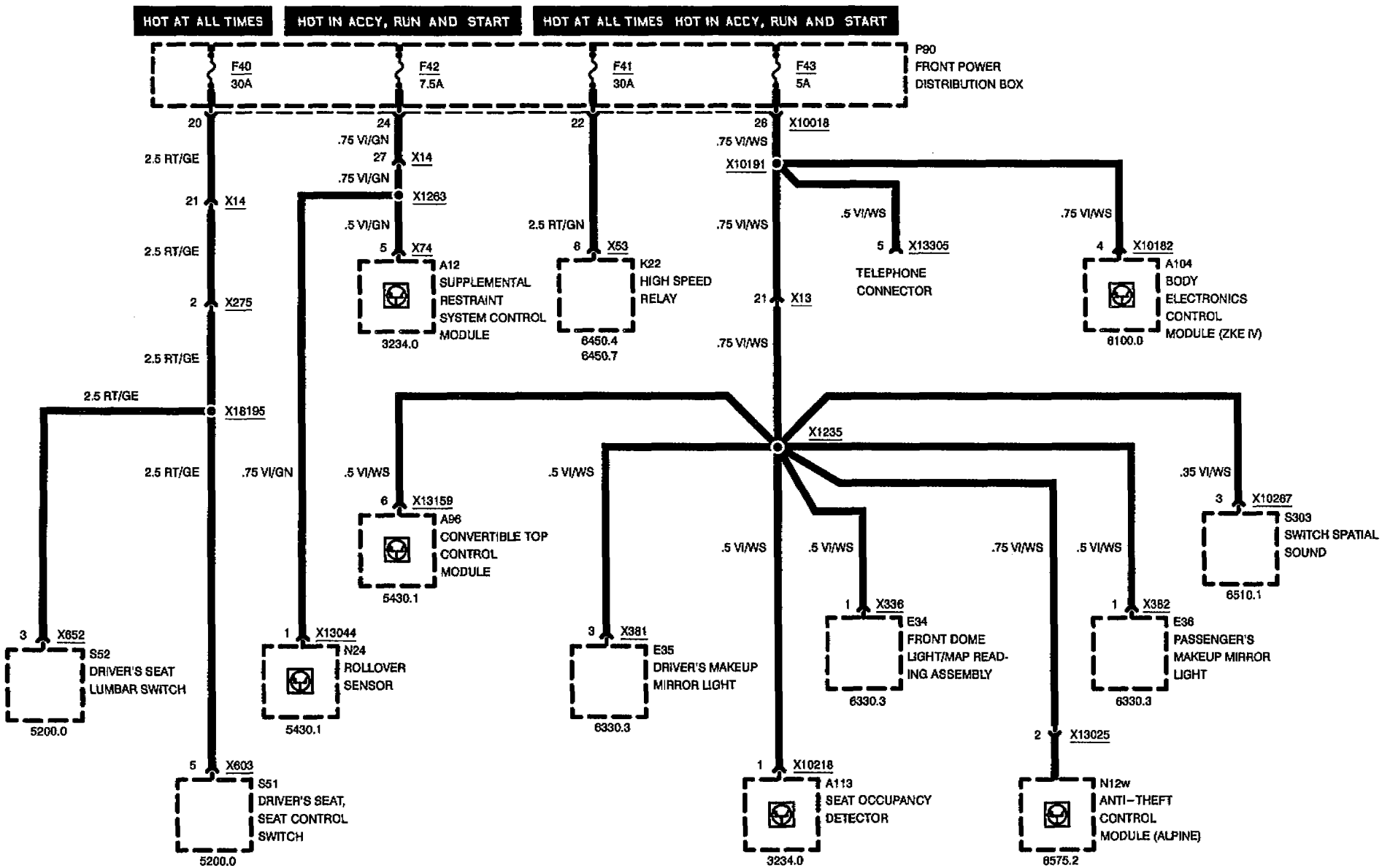
FUSE DETAILS

FUSES 34, 35, 36, 37, 38, AND 39



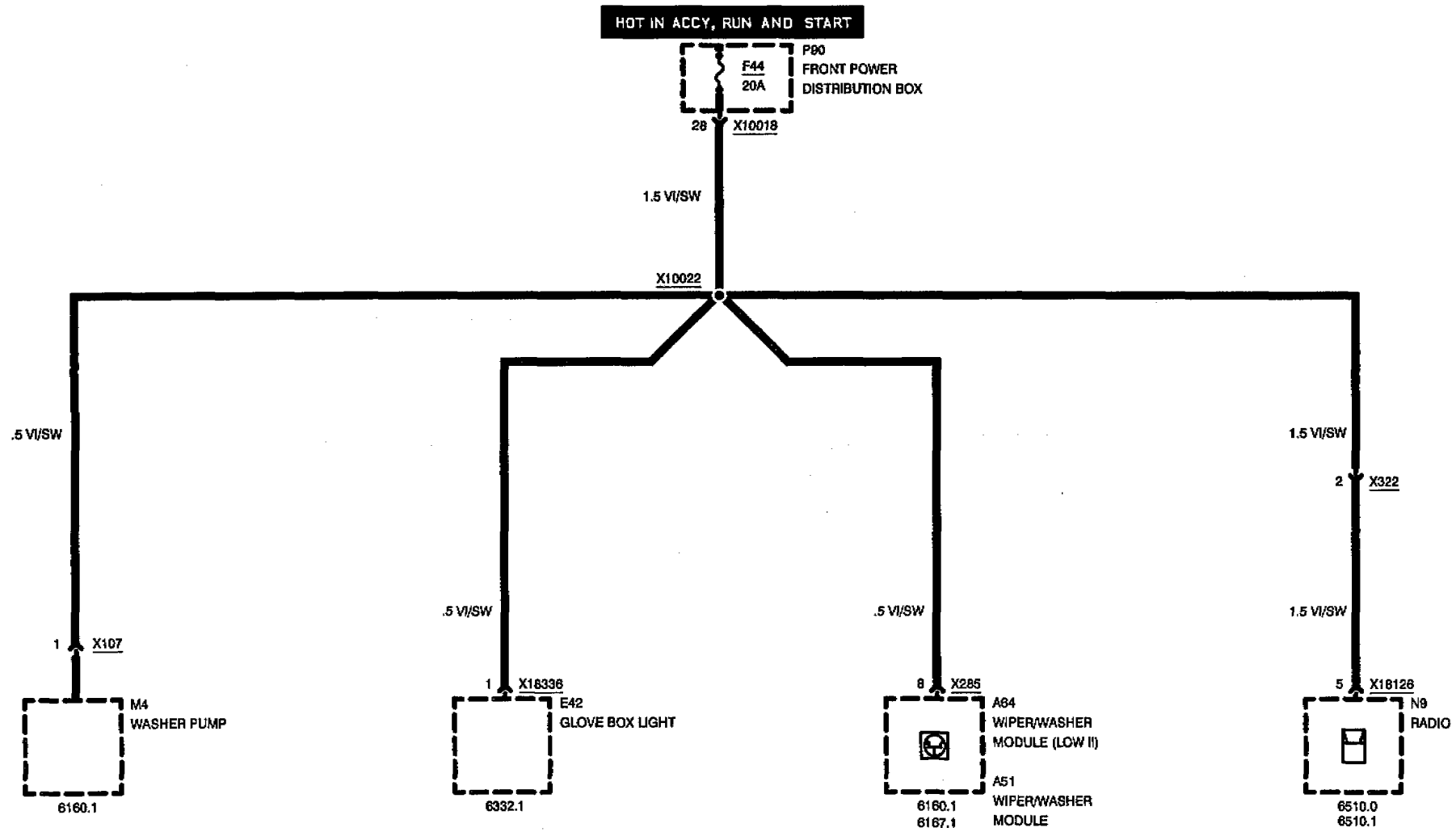
FUSE DETAILS

FUSES 40, 41, 42, AND 43



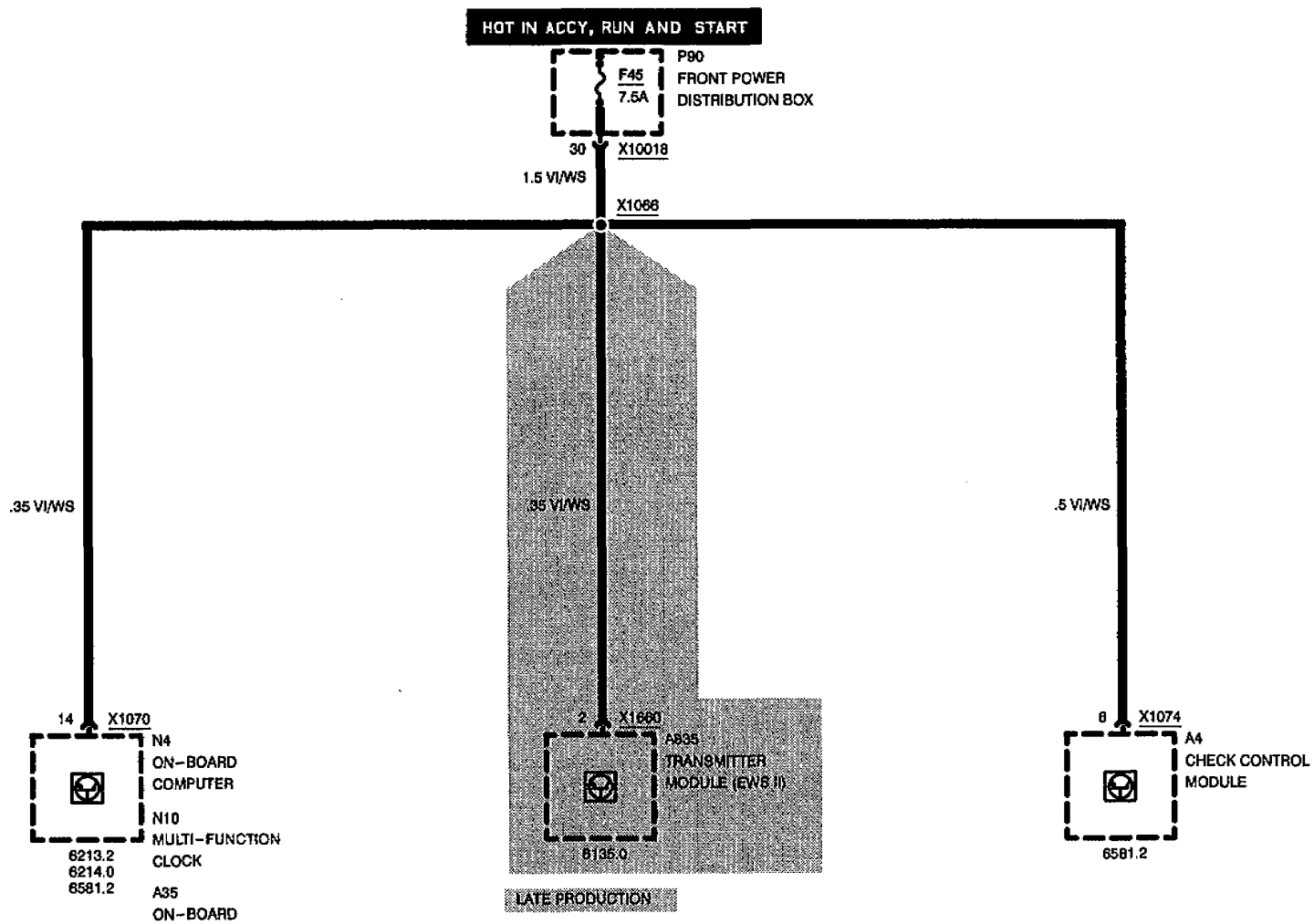
FUSE DETAILS

FUSE 44



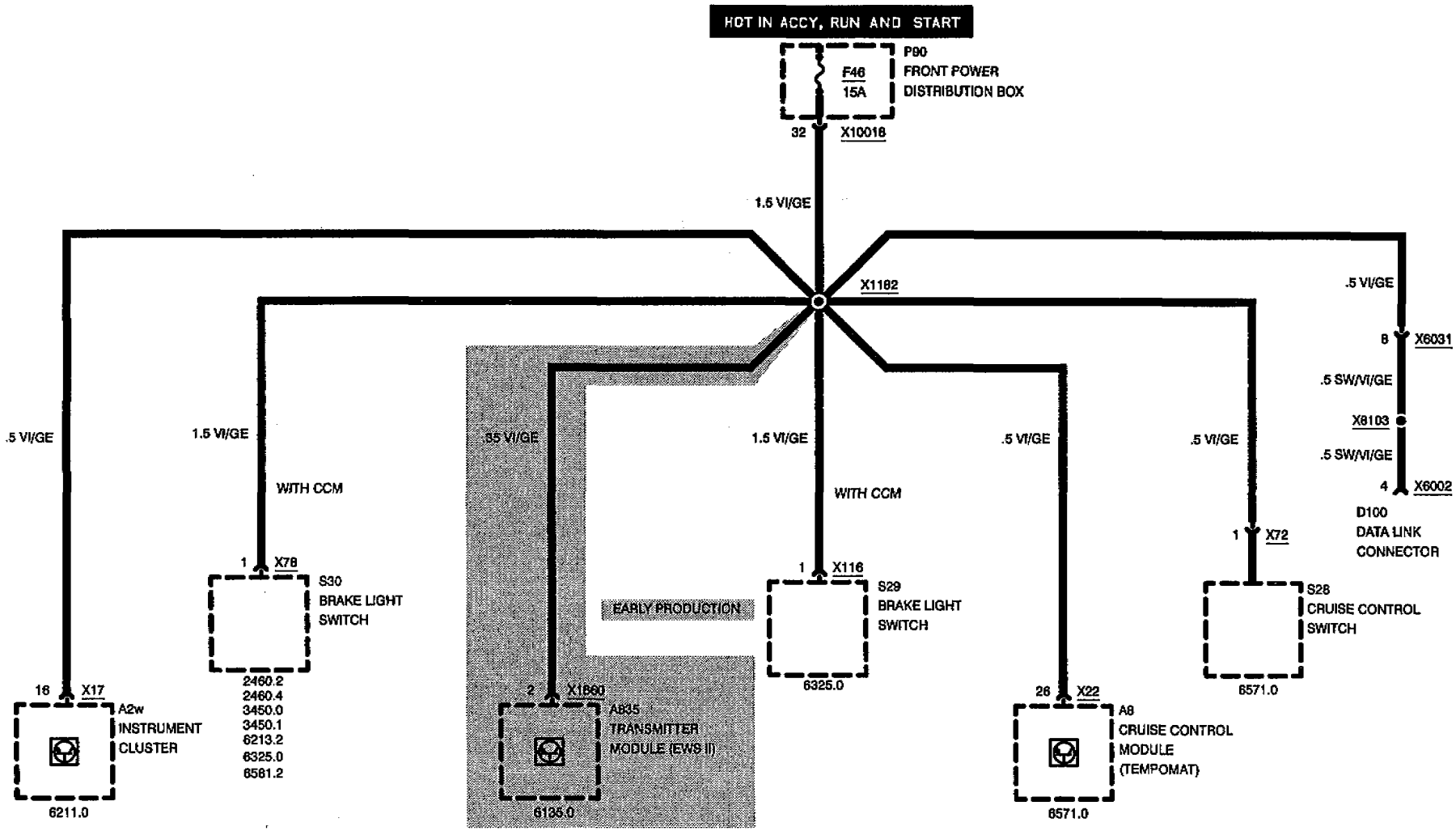
FUSE DETAILS

FUSE 45



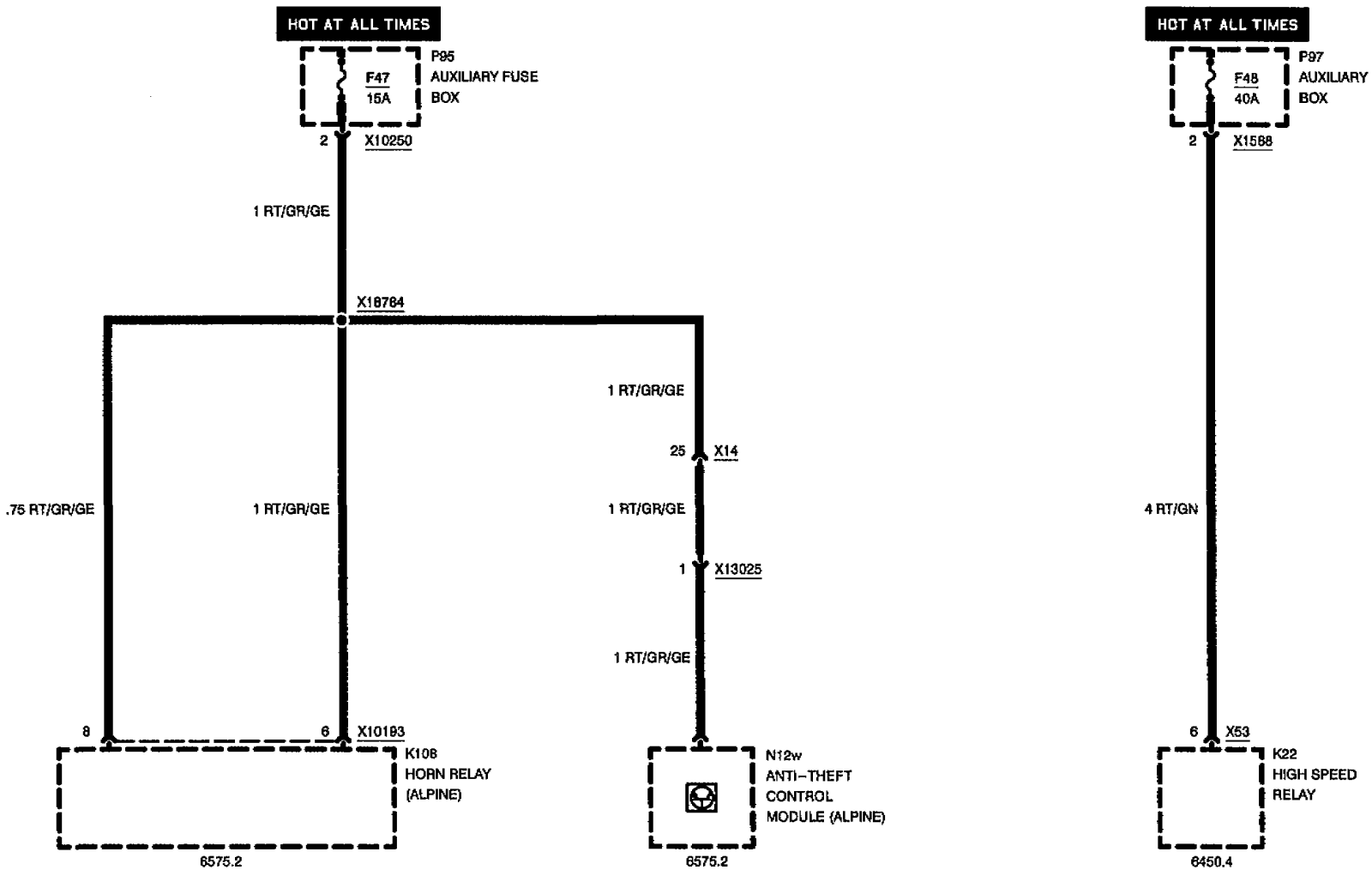
FUSE DETAILS

FUSE 46



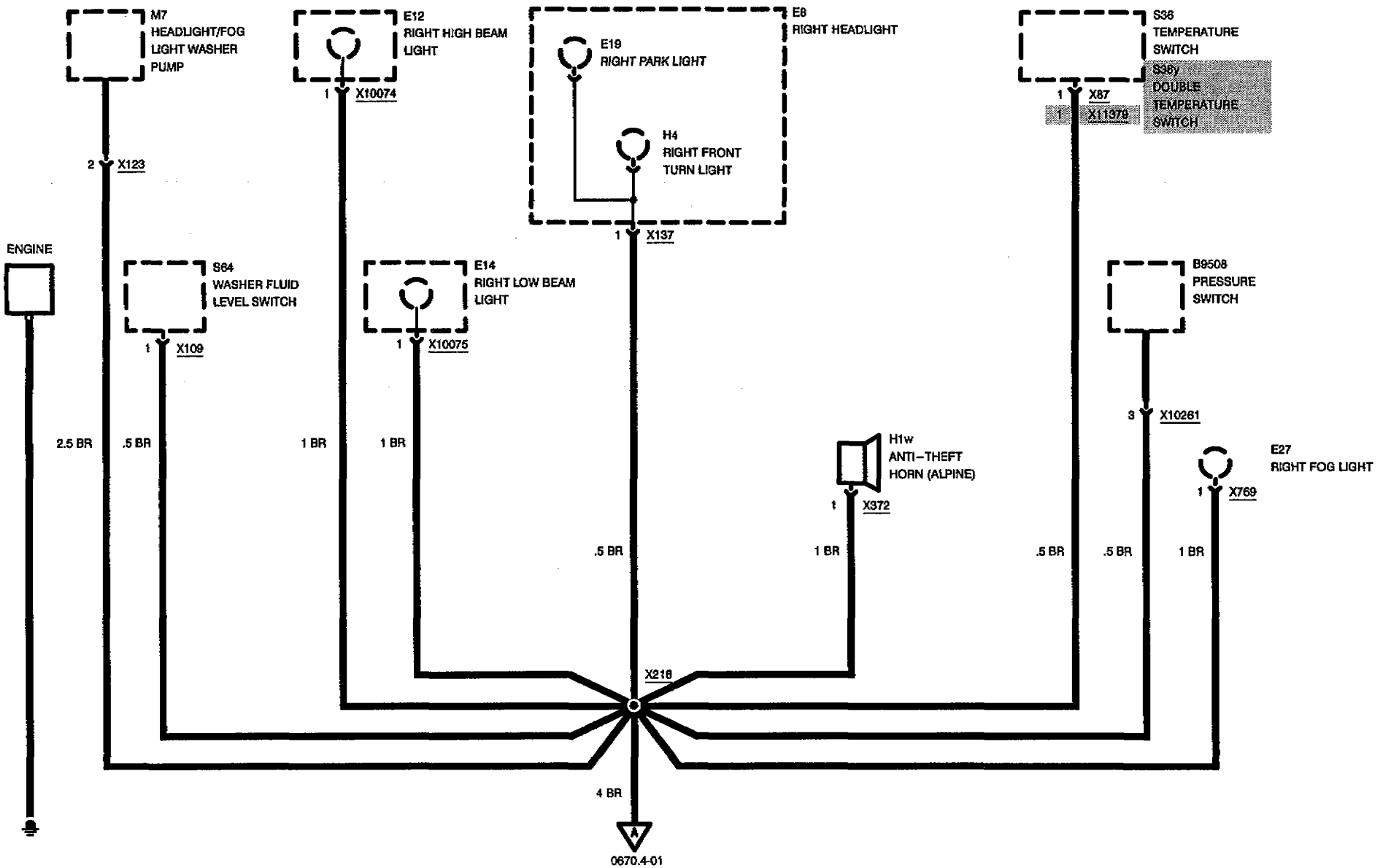
FUSE DETAILS

FUSES 47 AND 48



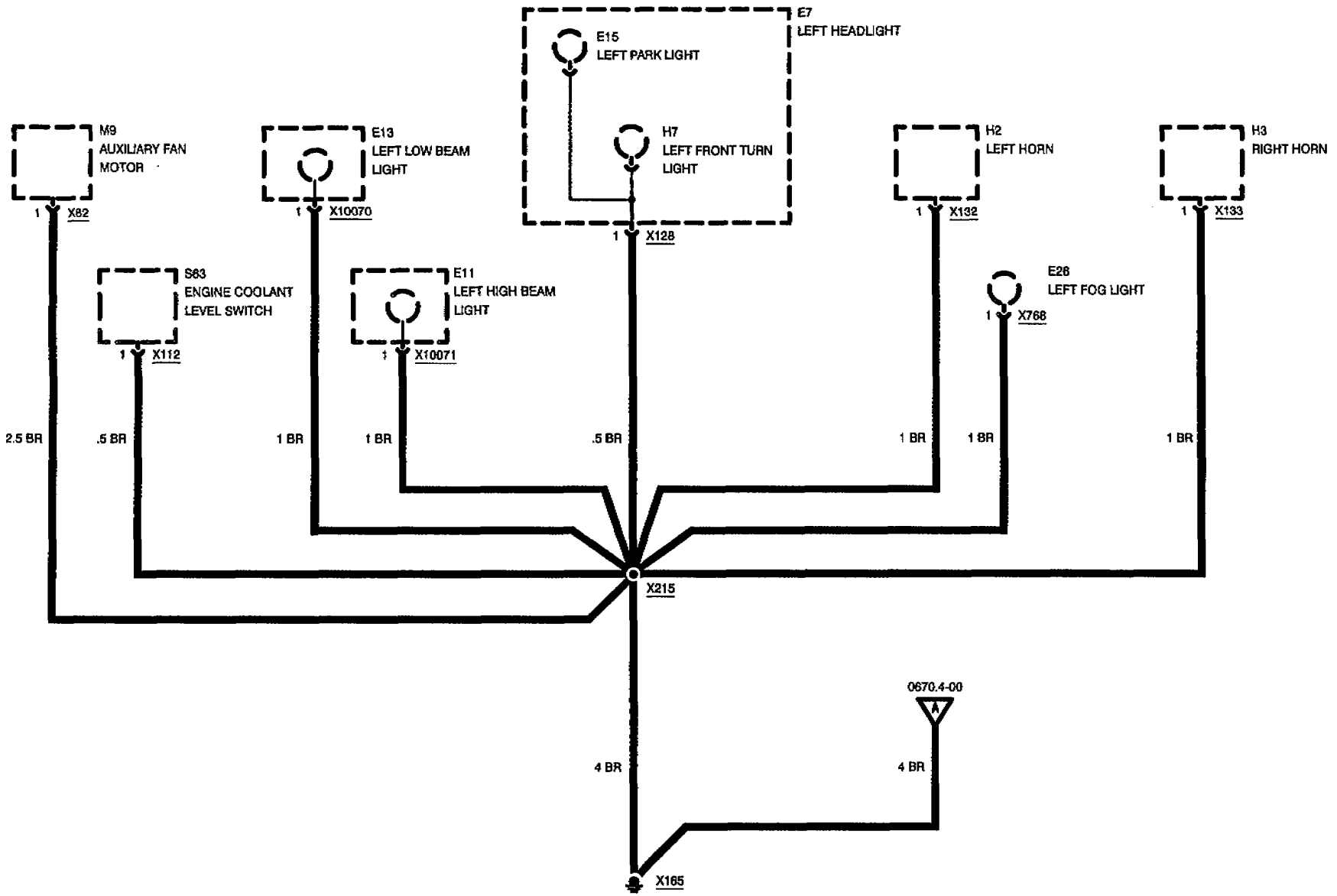
GROUND DISTRIBUTION

GROUND X165



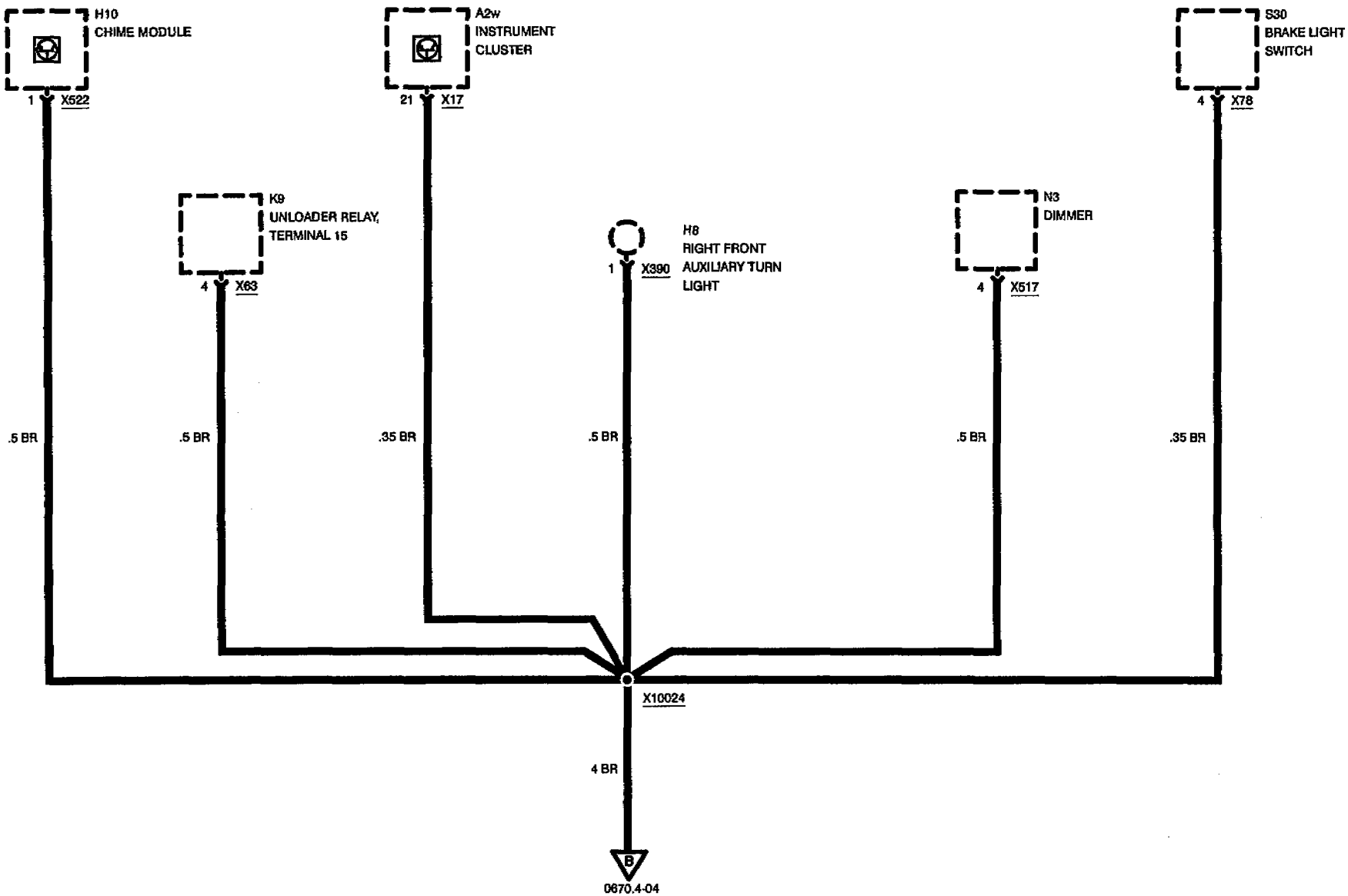
GROUND DISTRIBUTION

GROUND X165



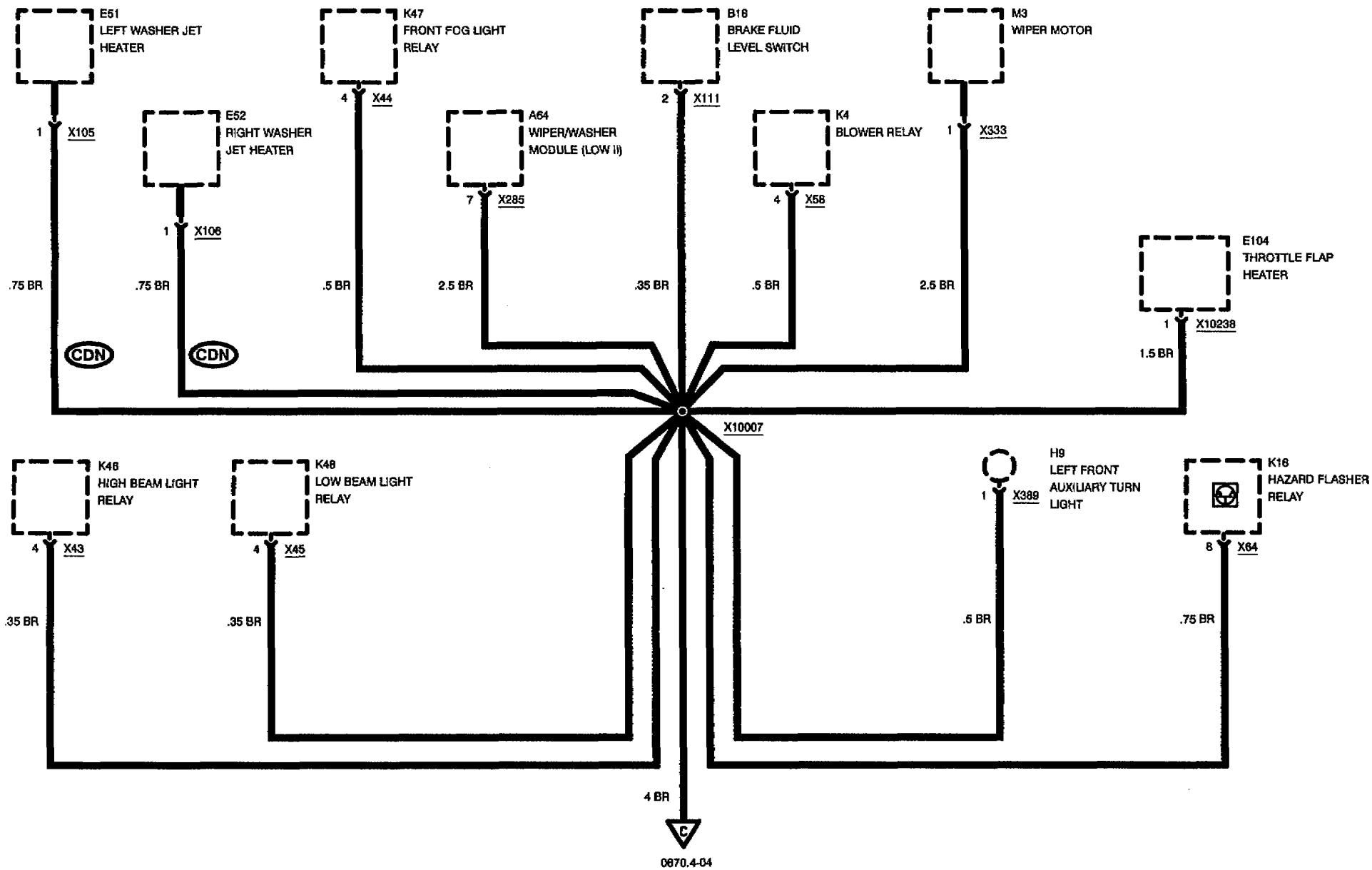
GROUND DISTRIBUTION

GROUND X173



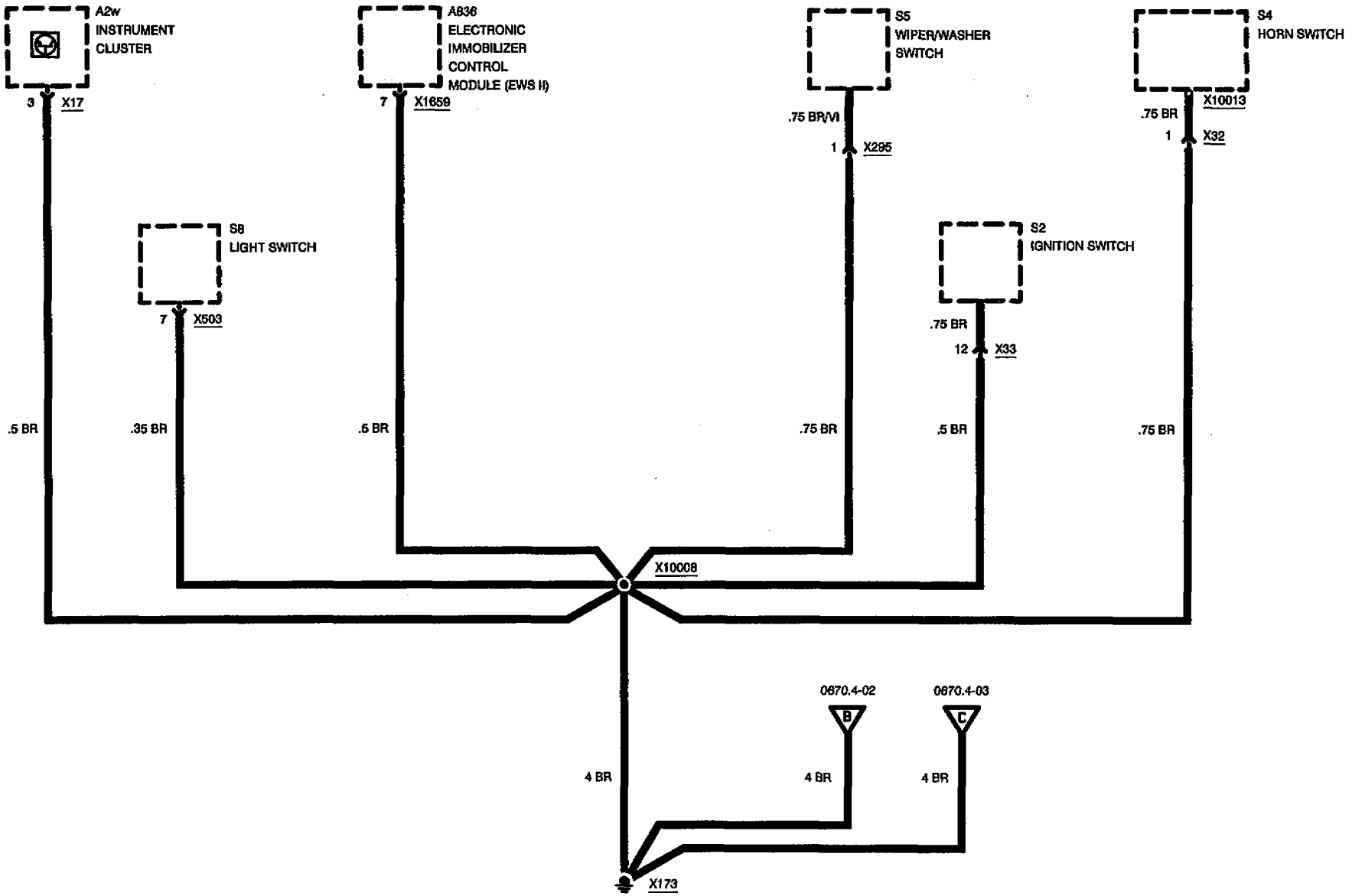
GROUND DISTRIBUTION

GROUND X173



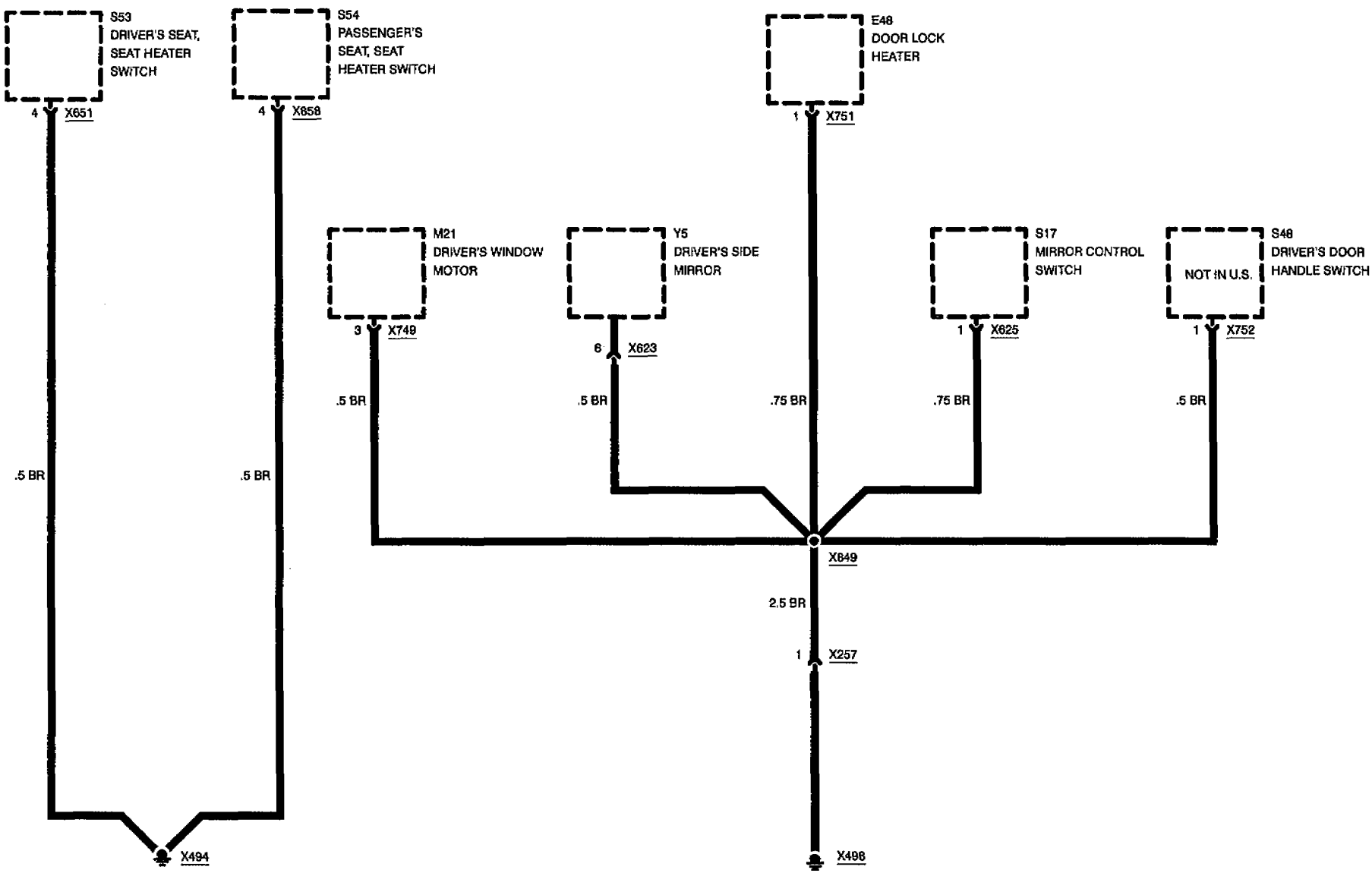
GROUND DISTRIBUTION

GROUND X173



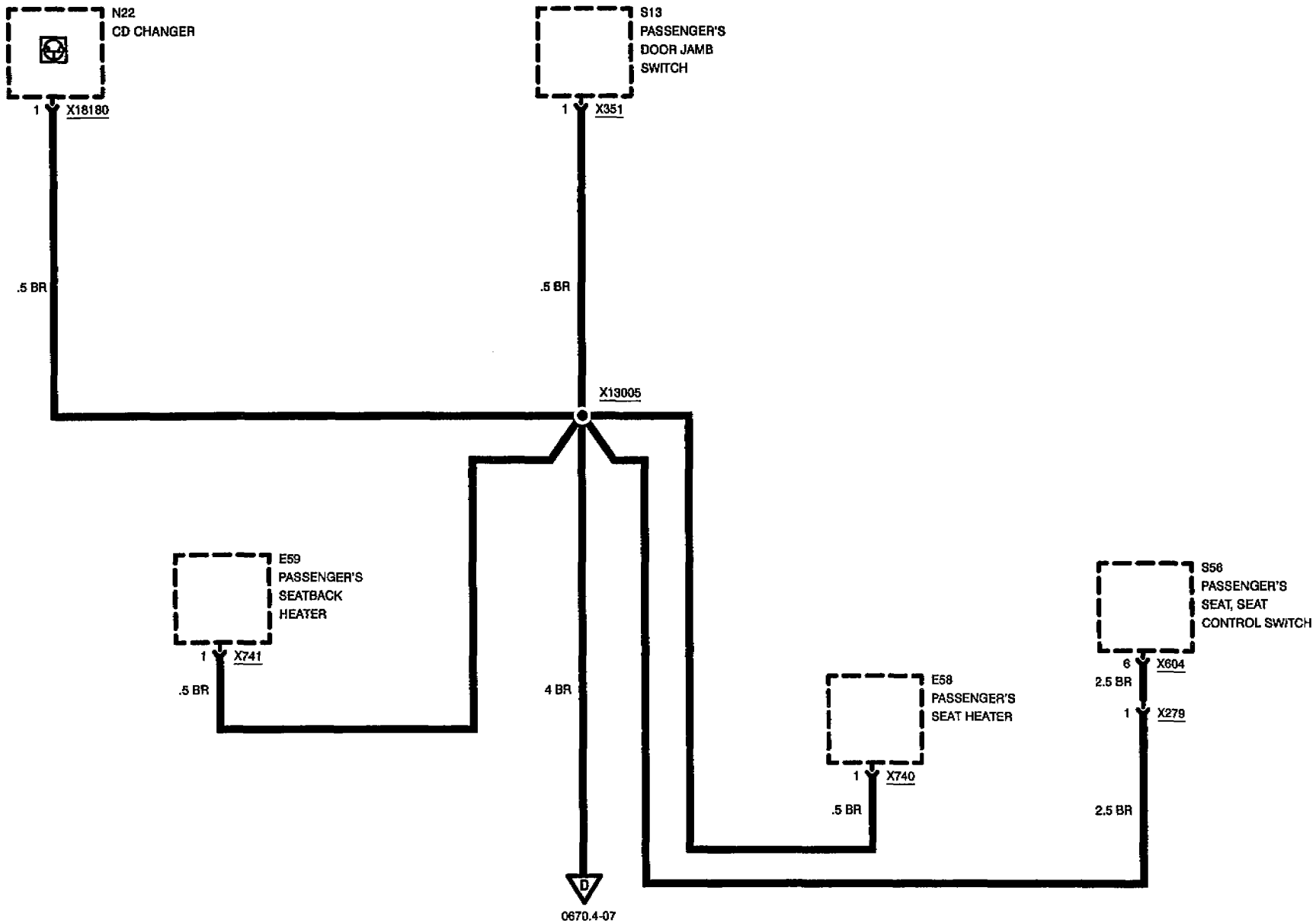
GROUND DISTRIBUTION

GROUNDS X494 AND X498



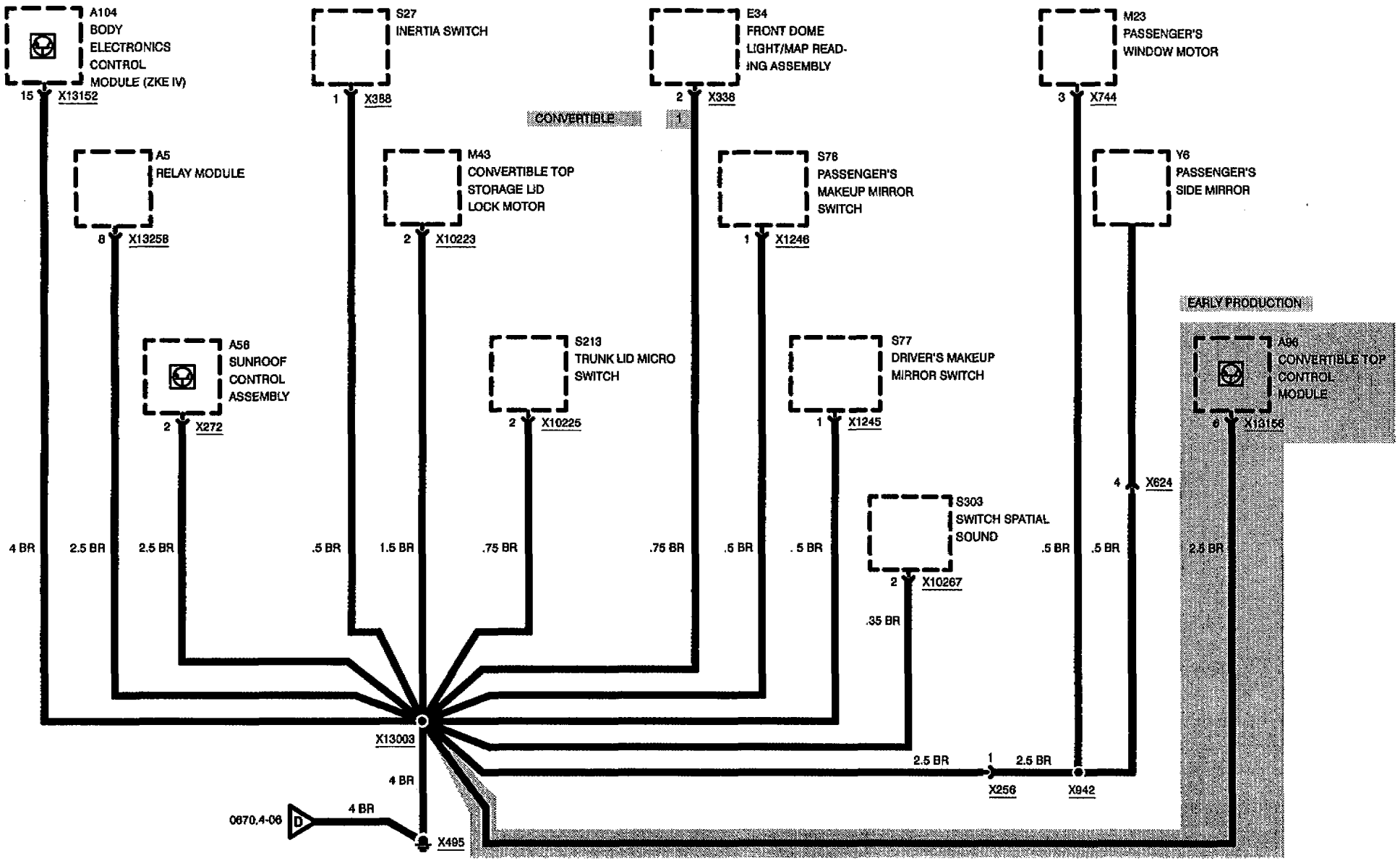
GROUND DISTRIBUTION

GROUND X495



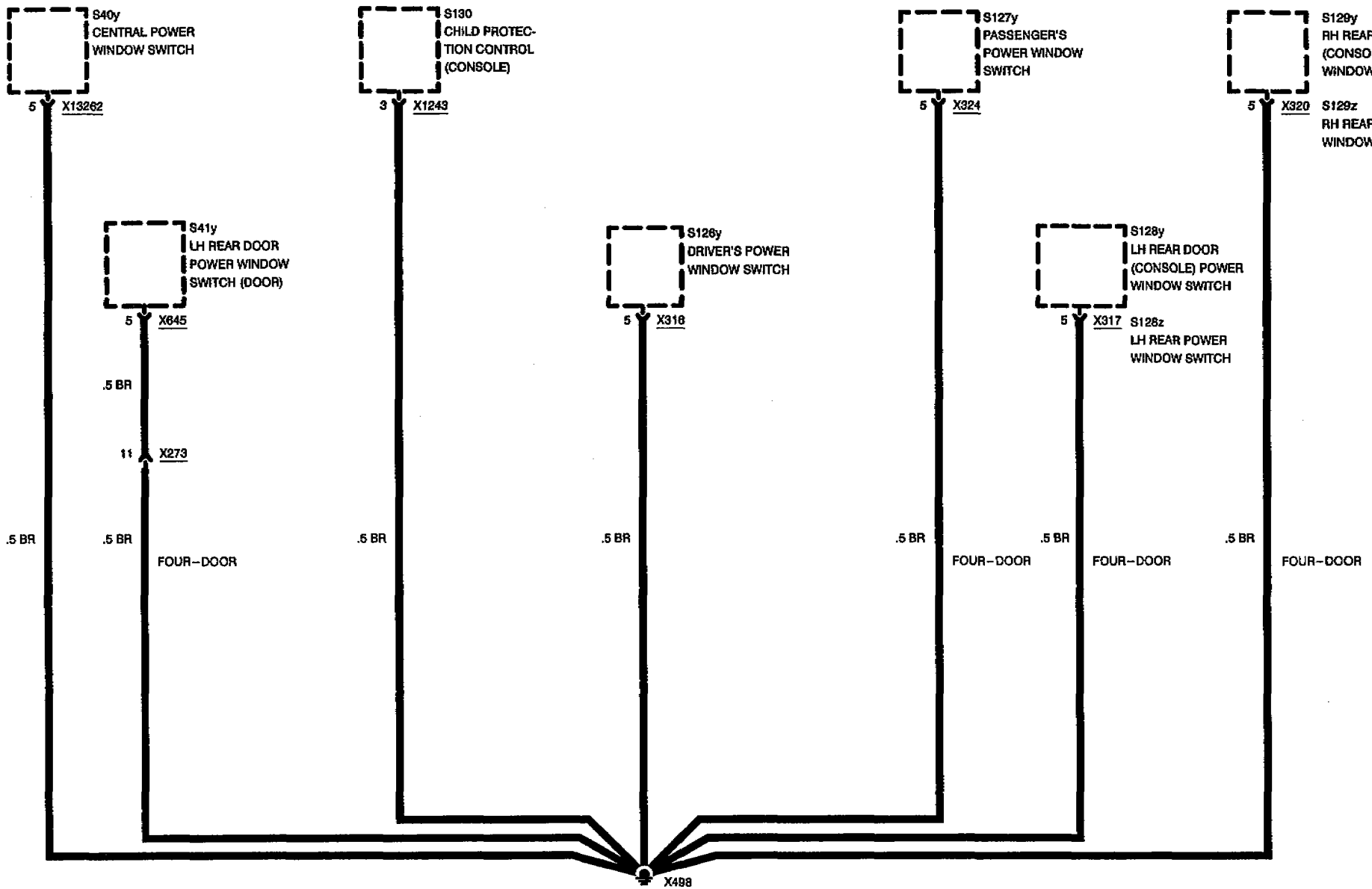
GROUND DISTRIBUTION

GROUND X495



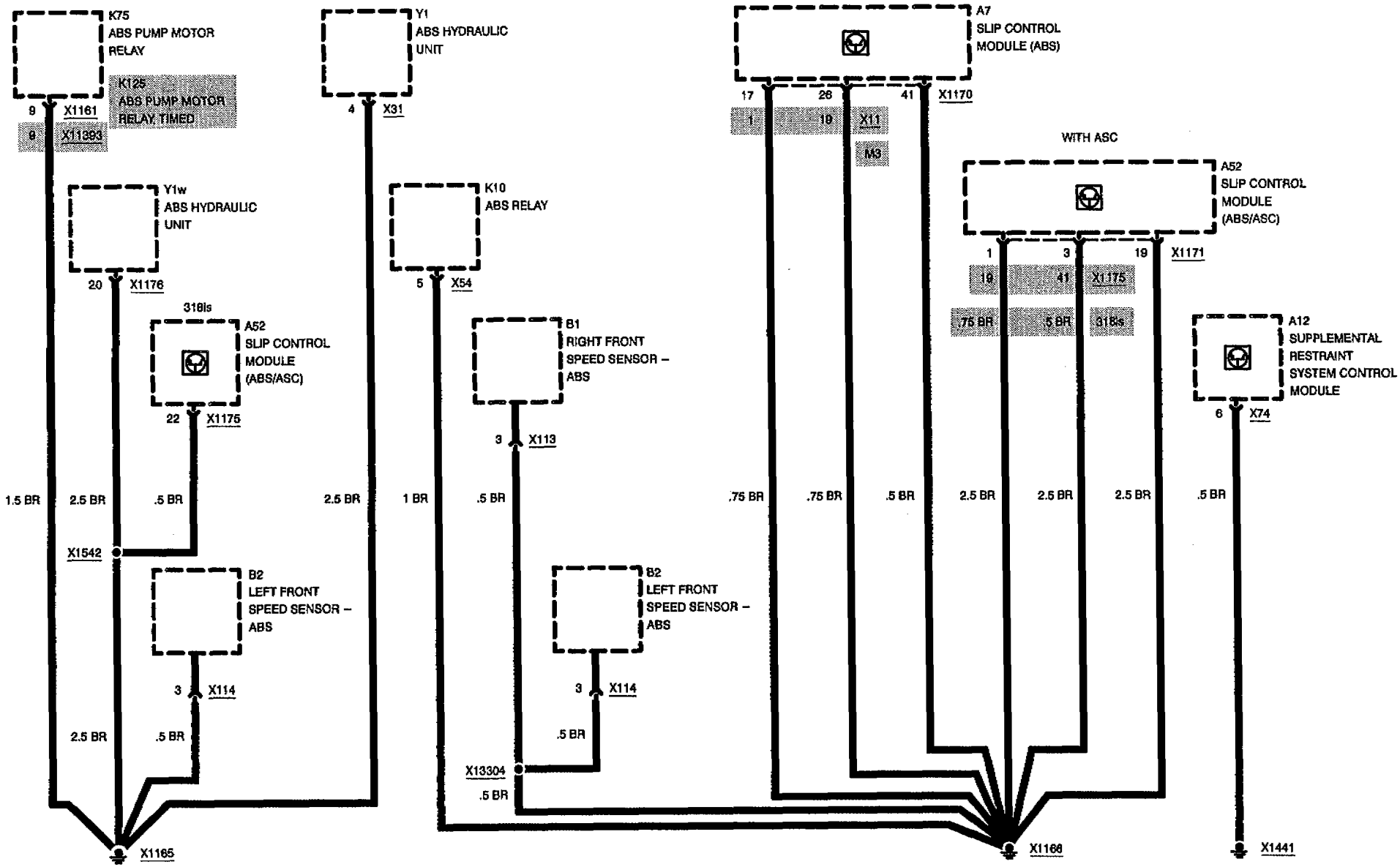
GROUND DISTRIBUTION

GROUND X498



GROUND DISTRIBUTION

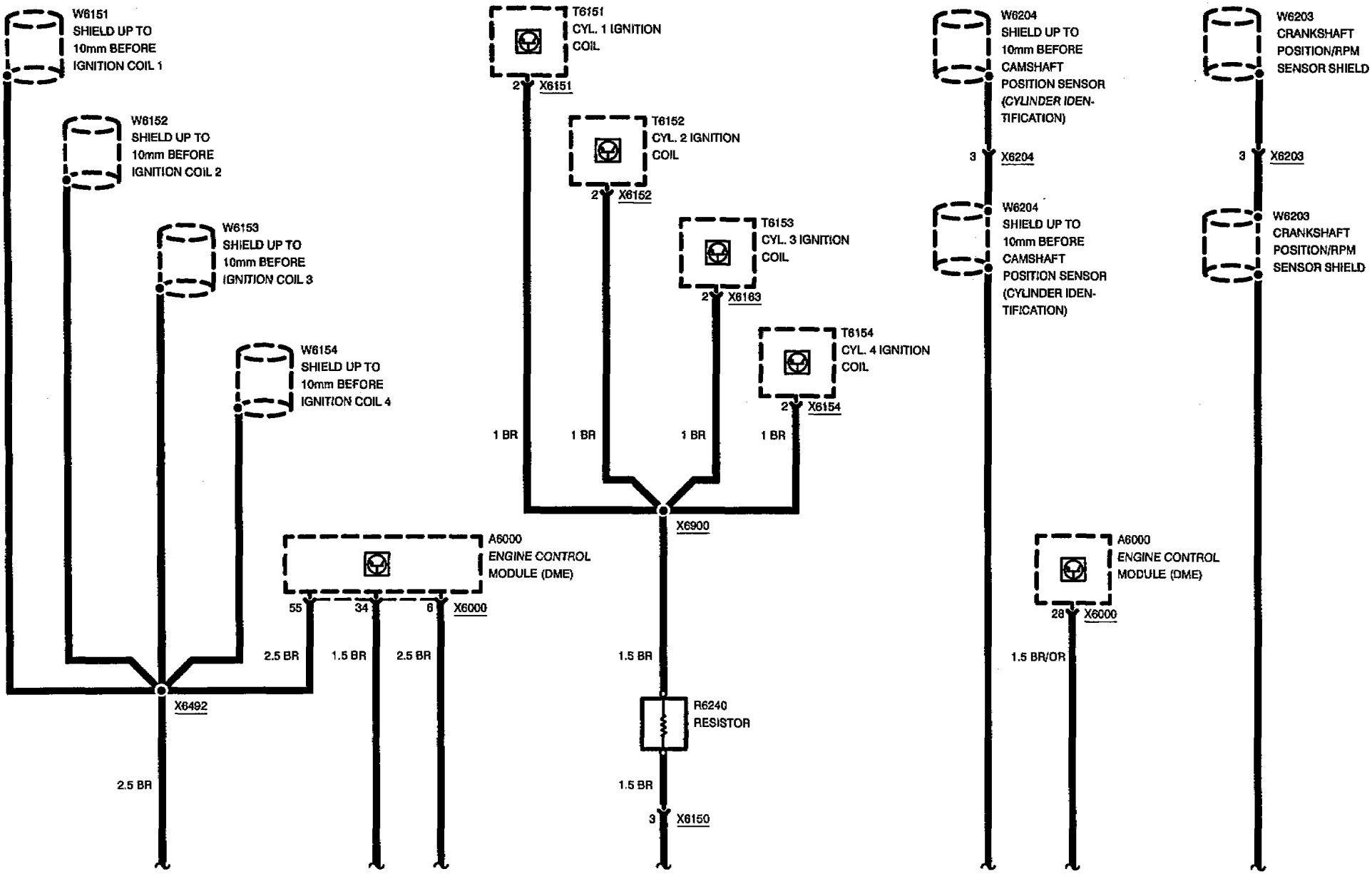
GROUNDS X1165, X1166, AND X1441

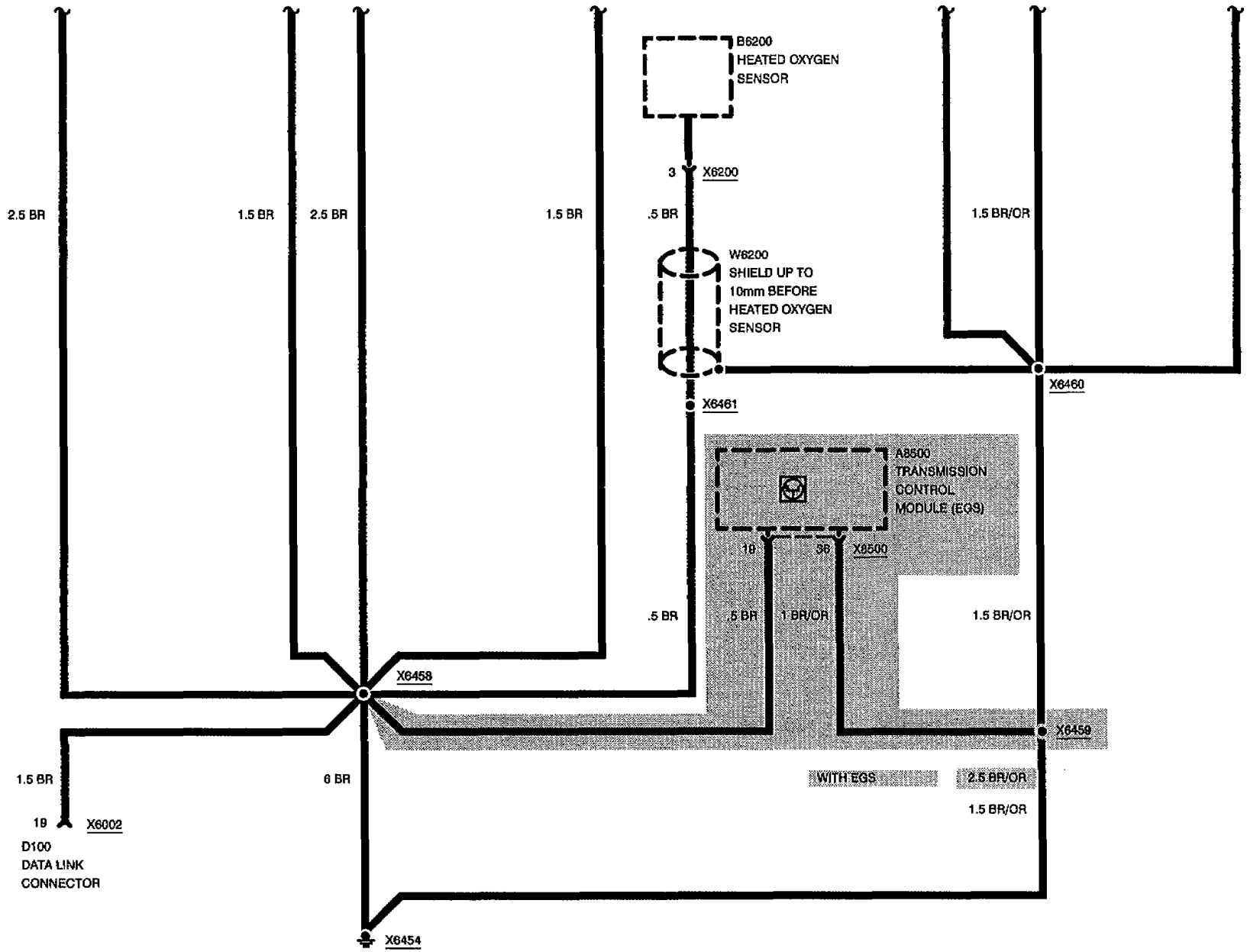


GROUND DISTRIBUTION

318is EARLY PRODUCTION

GROUND X6454

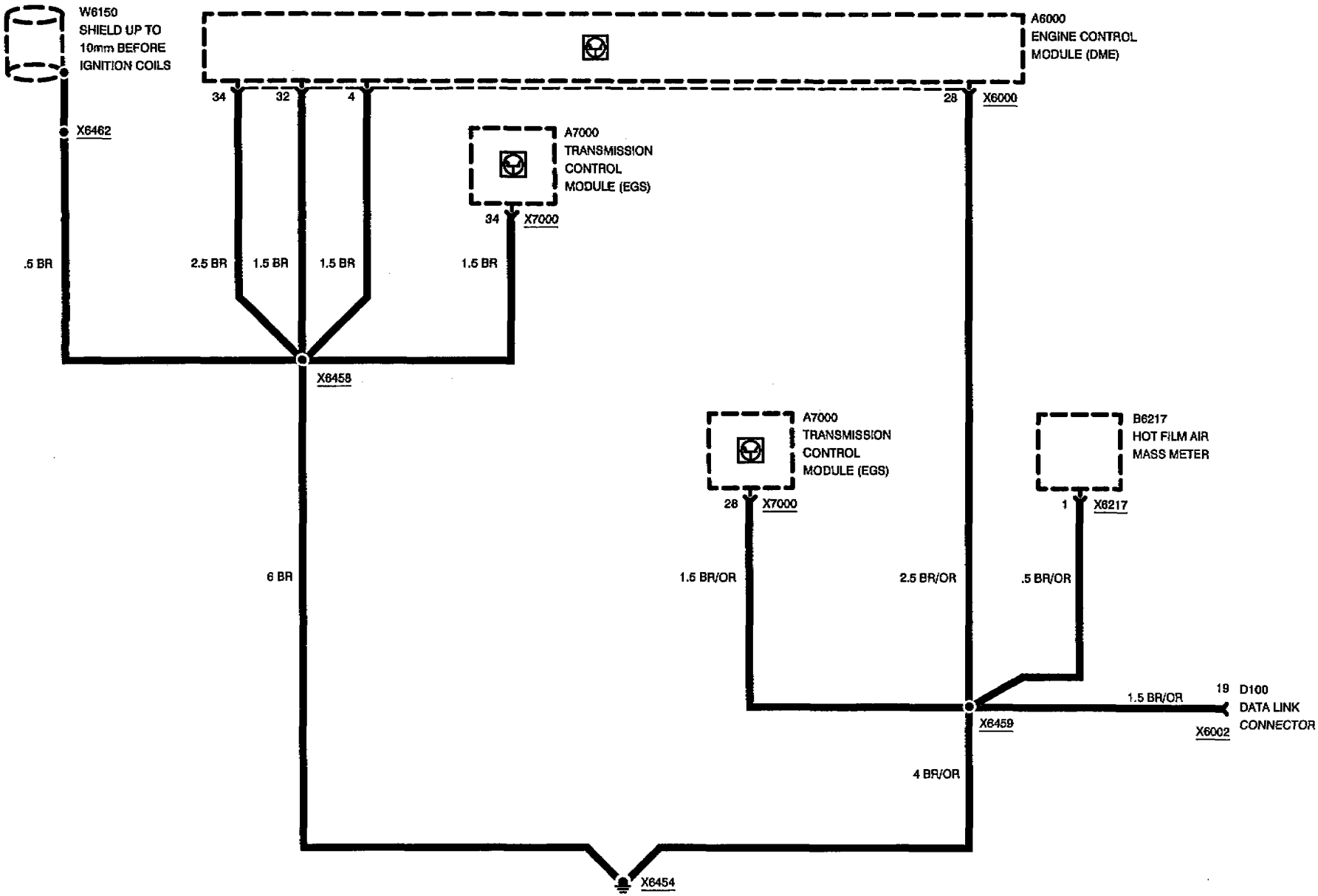



B6200
HEATED OXYGEN
SENSOR
3
X6200
2.5 BR
1.5 BR
2.5 BR
1.5 BR
.5 BR
1.5 BR/OR
W6200
SHIELD UP TO
10mm BEFORE
HEATED OXYGEN
SENSOR
X6460
X6461
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
19
36
X8500
.5 BR
.5 BR
1 BR/OR
1.5 BR/OR
X6458
X6459
1.5 BR
6 BR
WITH EGS
2.5 BR/OR
1.5 BR/OR
19
X6002
D100
DATA LINK
CONNECTOR
X6454

GROUND DISTRIBUTION

320i CDN

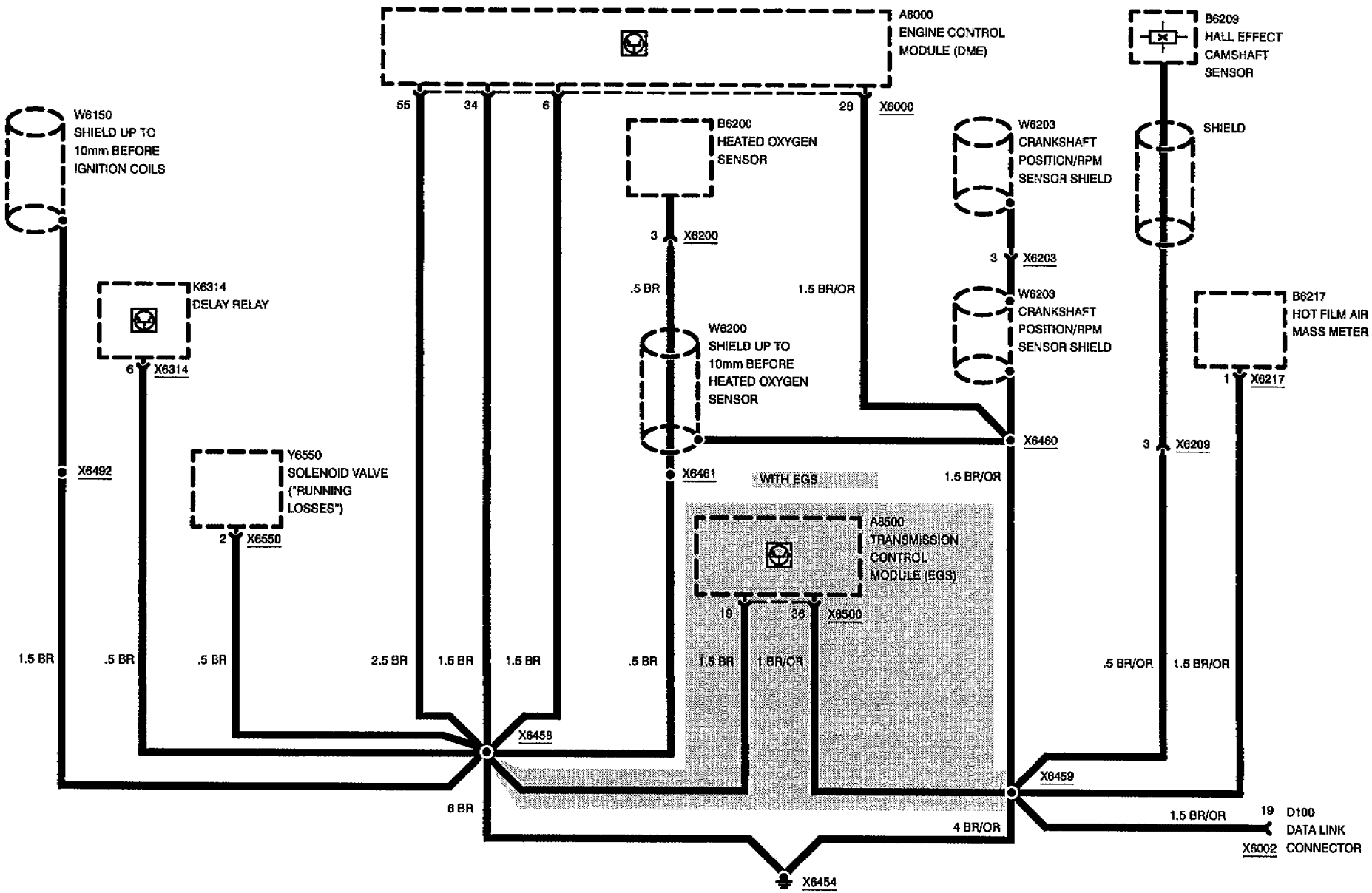
GROUND X6454

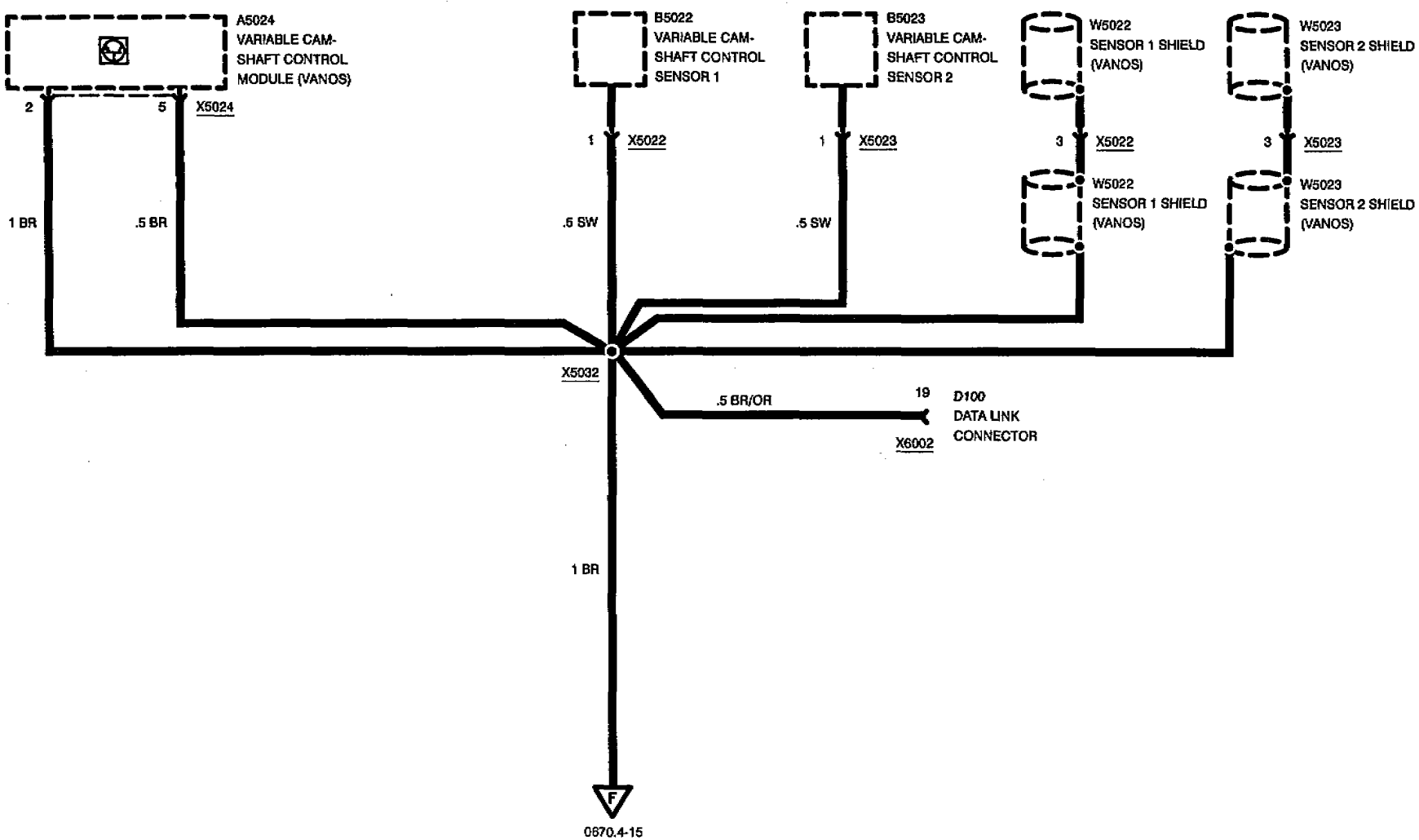


GROUND DISTRIBUTION

325i, M3 (USA)

GROUND X6454

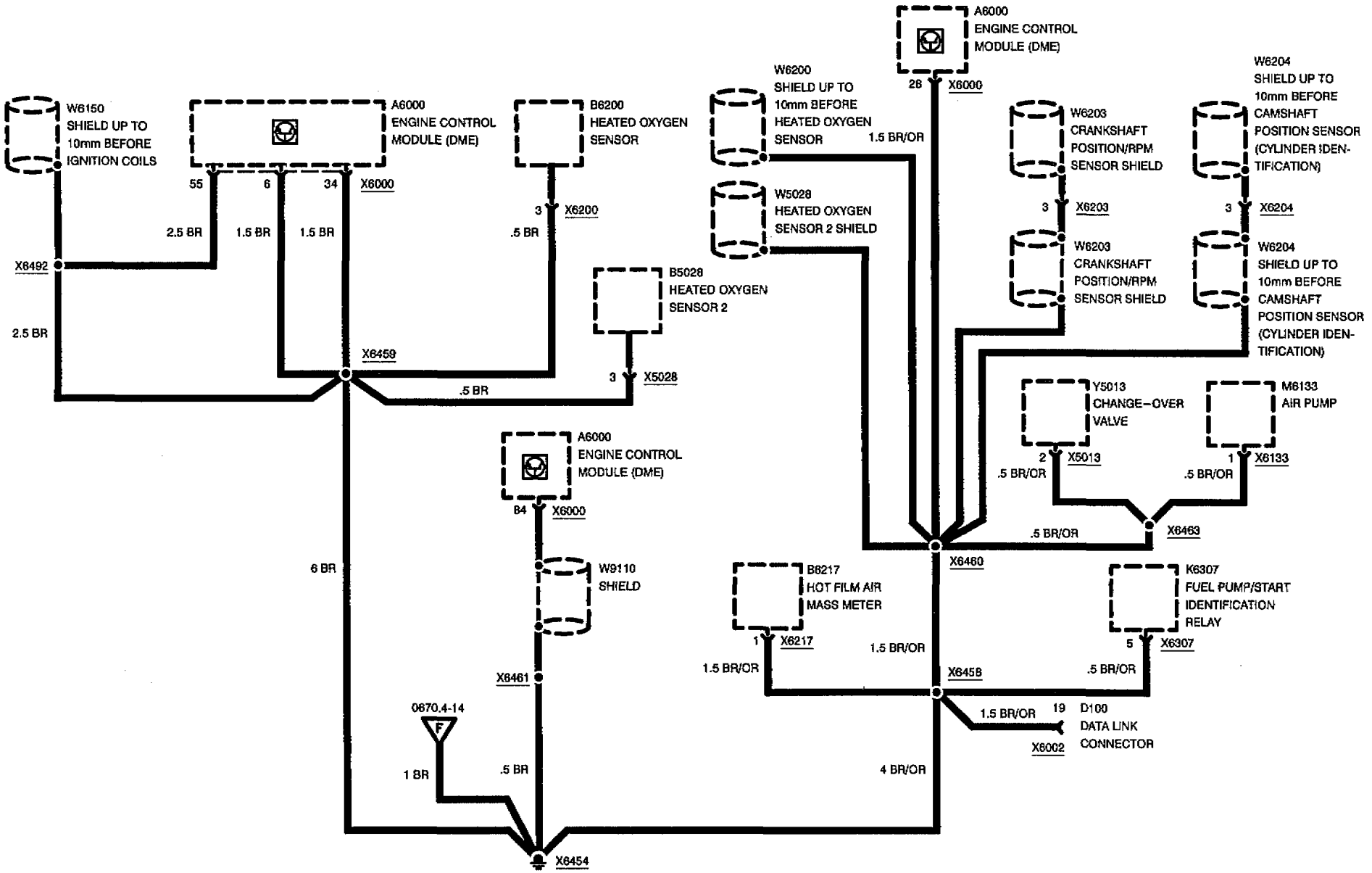



A5024
VARIABLE CAM-
SHAFT CONTROL
MODULE (VANOS)
2
5
X5024
1 BR
.5 BR
B5022
VARIABLE CAM-
SHAFT CONTROL
SENSOR 1
1
X5022
.5 SW
B5023
VARIABLE CAM-
SHAFT CONTROL
SENSOR 2
1
X5023
.5 SW
W5022
SENSOR 1 SHIELD
(VANOS)
3
X5022
W5022
SENSOR 1 SHIELD
(VANOS)
W5023
SENSOR 2 SHIELD
(VANOS)
3
X5023
W5023
SENSOR 2 SHIELD
(VANOS)
X5032
.5 BR/OR
19
D100
DATA LINK
CONNECTOR
X6002
1 BR
F
0670.4-15

GROUND DISTRIBUTION

M3 CDN

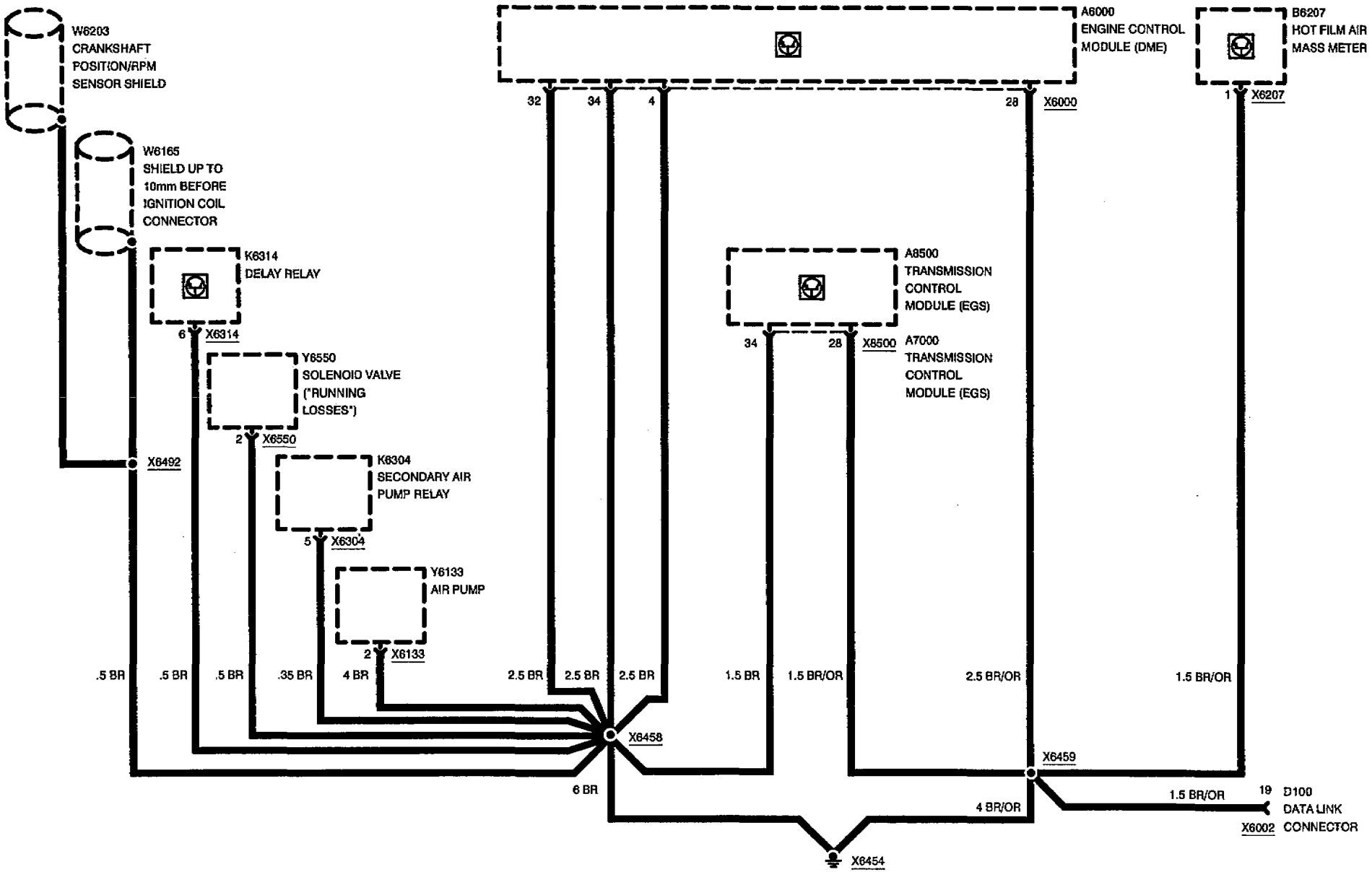
GROUND X6454



GROUND DISTRIBUTION

328i, M3 (USA)

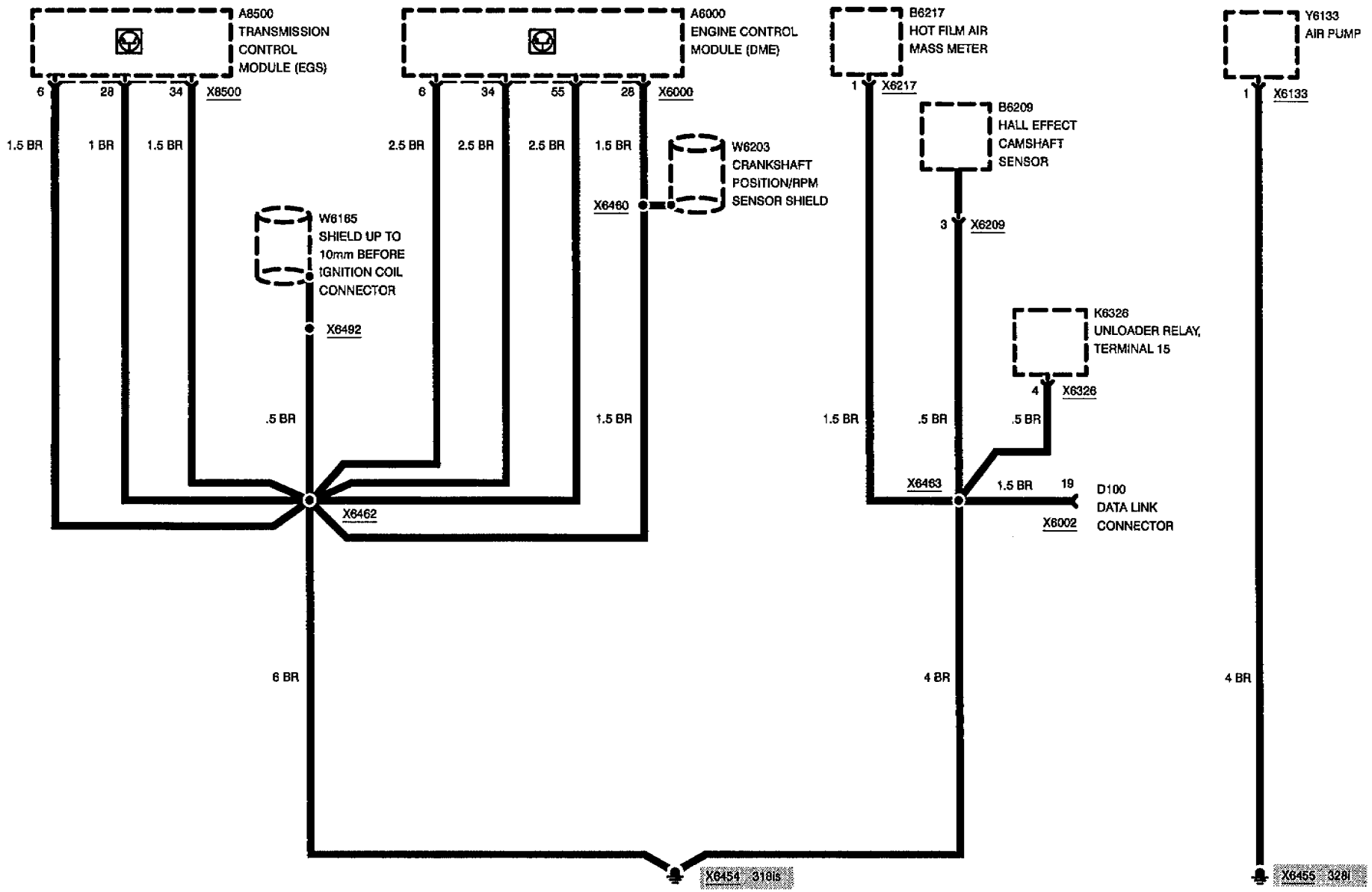
GROUND X6454



GROUND DISTRIBUTION

318is, 328i LATE PRODUCTION

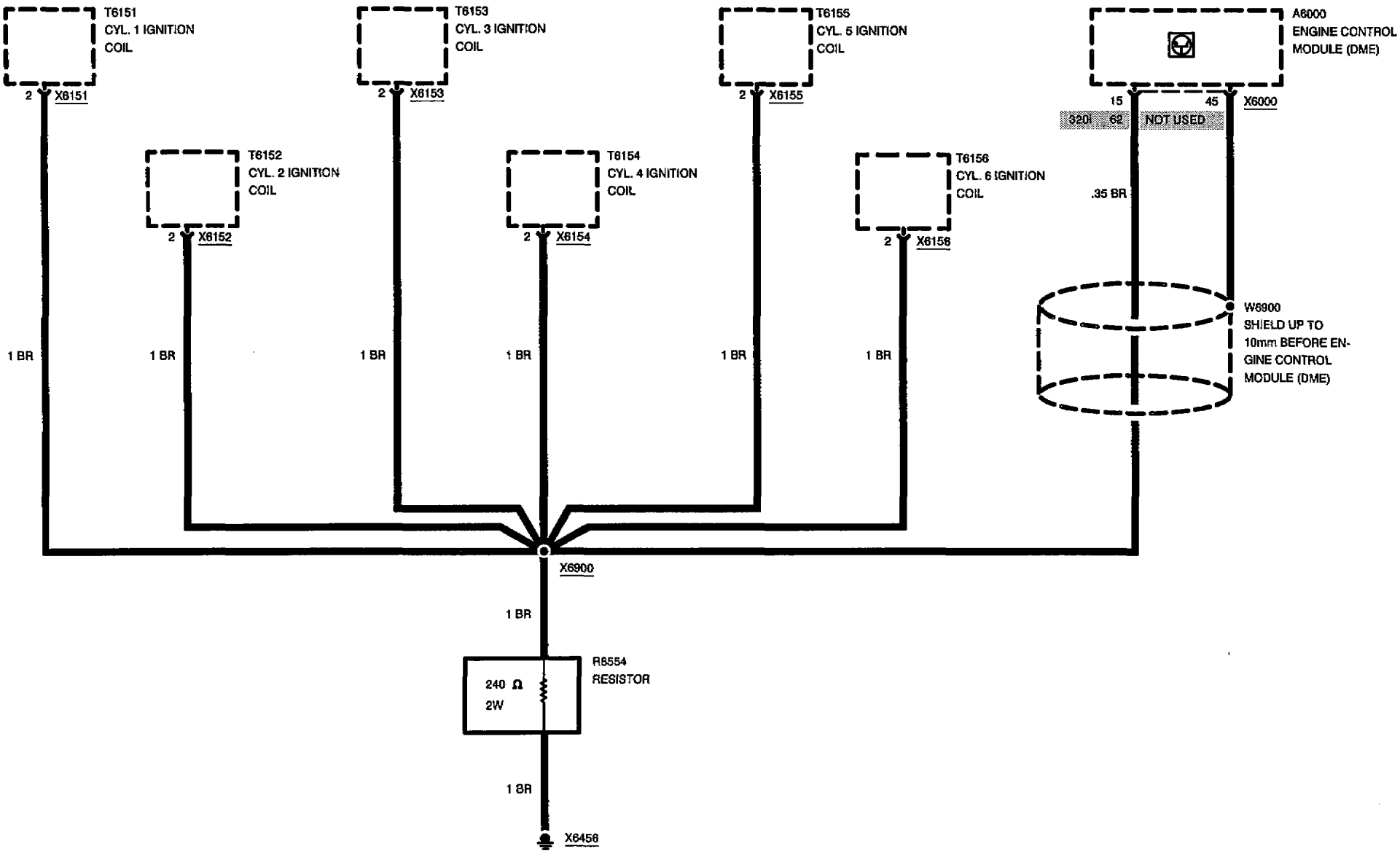
GROUNDS X6454 AND X6455



GROUND DISTRIBUTION

320i, 325i

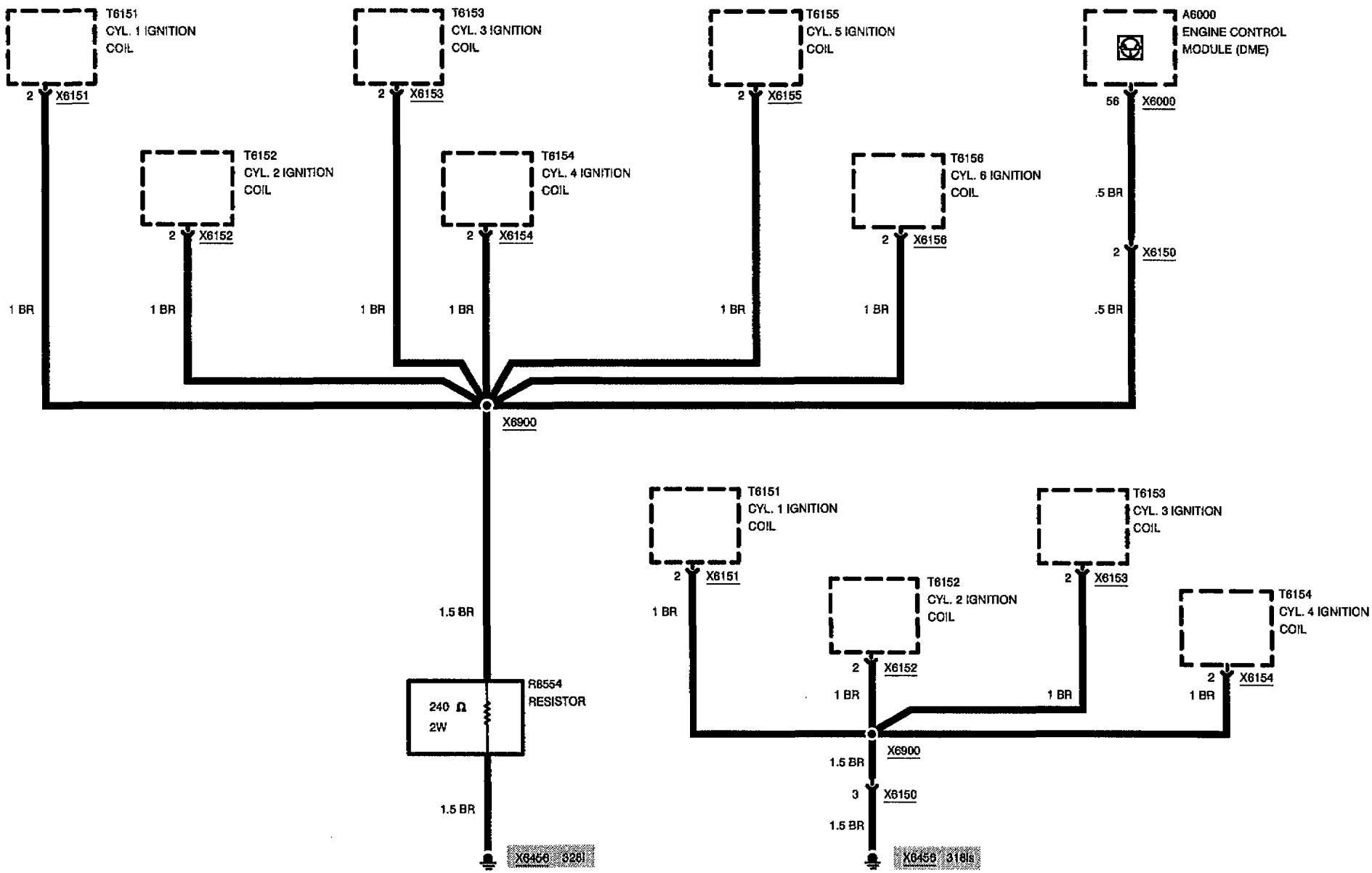
GROUND X6456



GROUND DISTRIBUTION

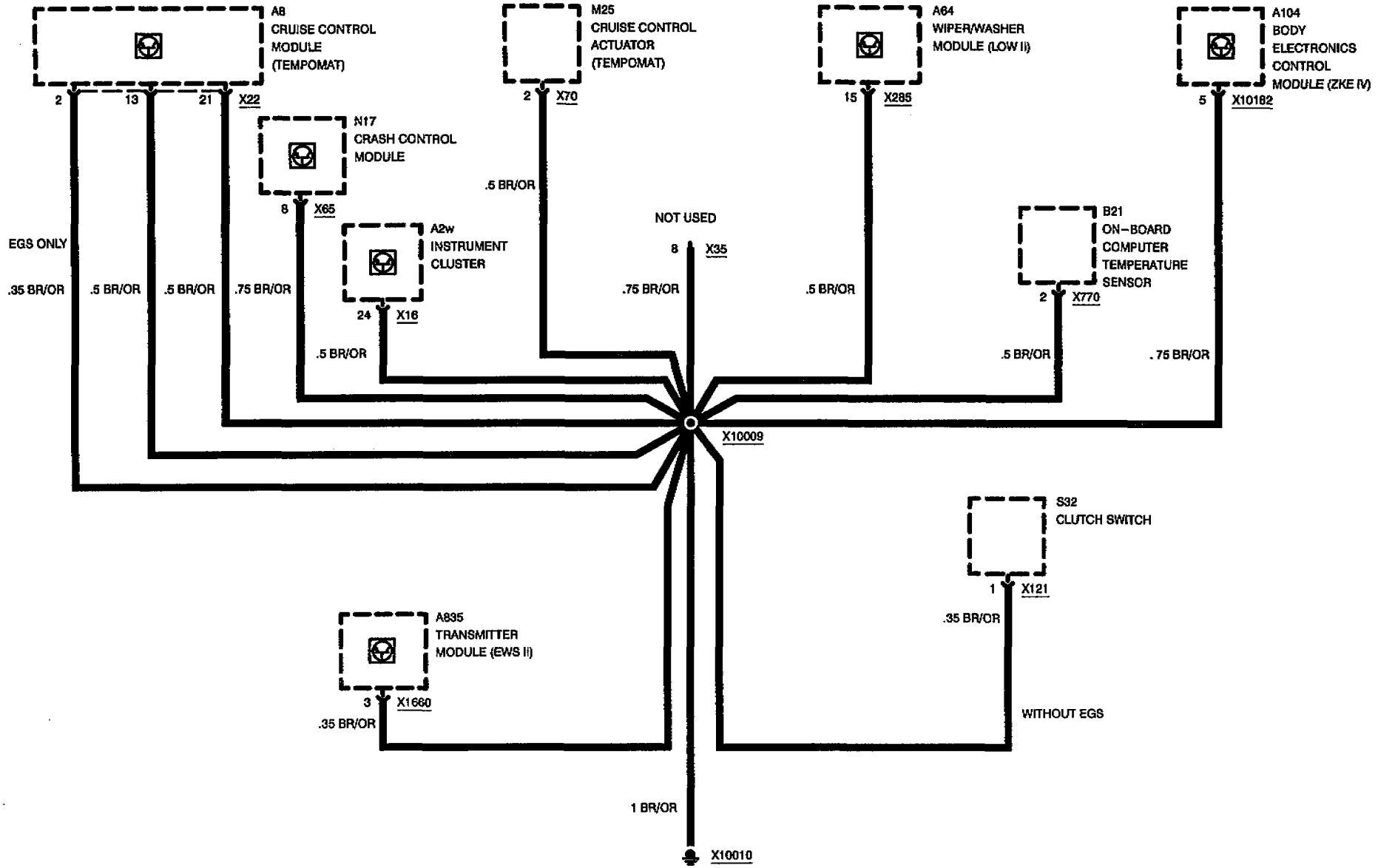
318is, 328i

GROUND X6456



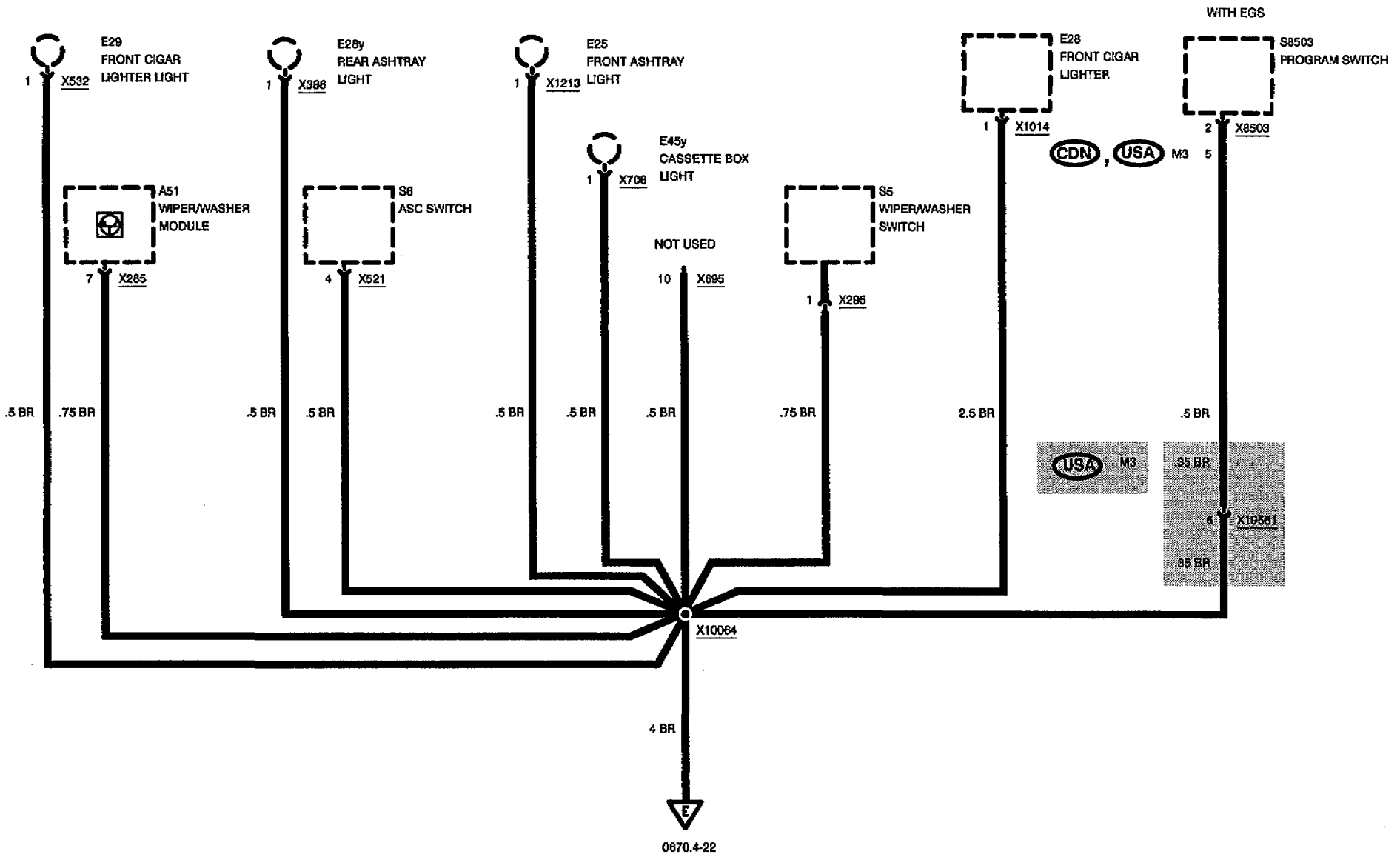
GROUND DISTRIBUTION

GROUND X10010



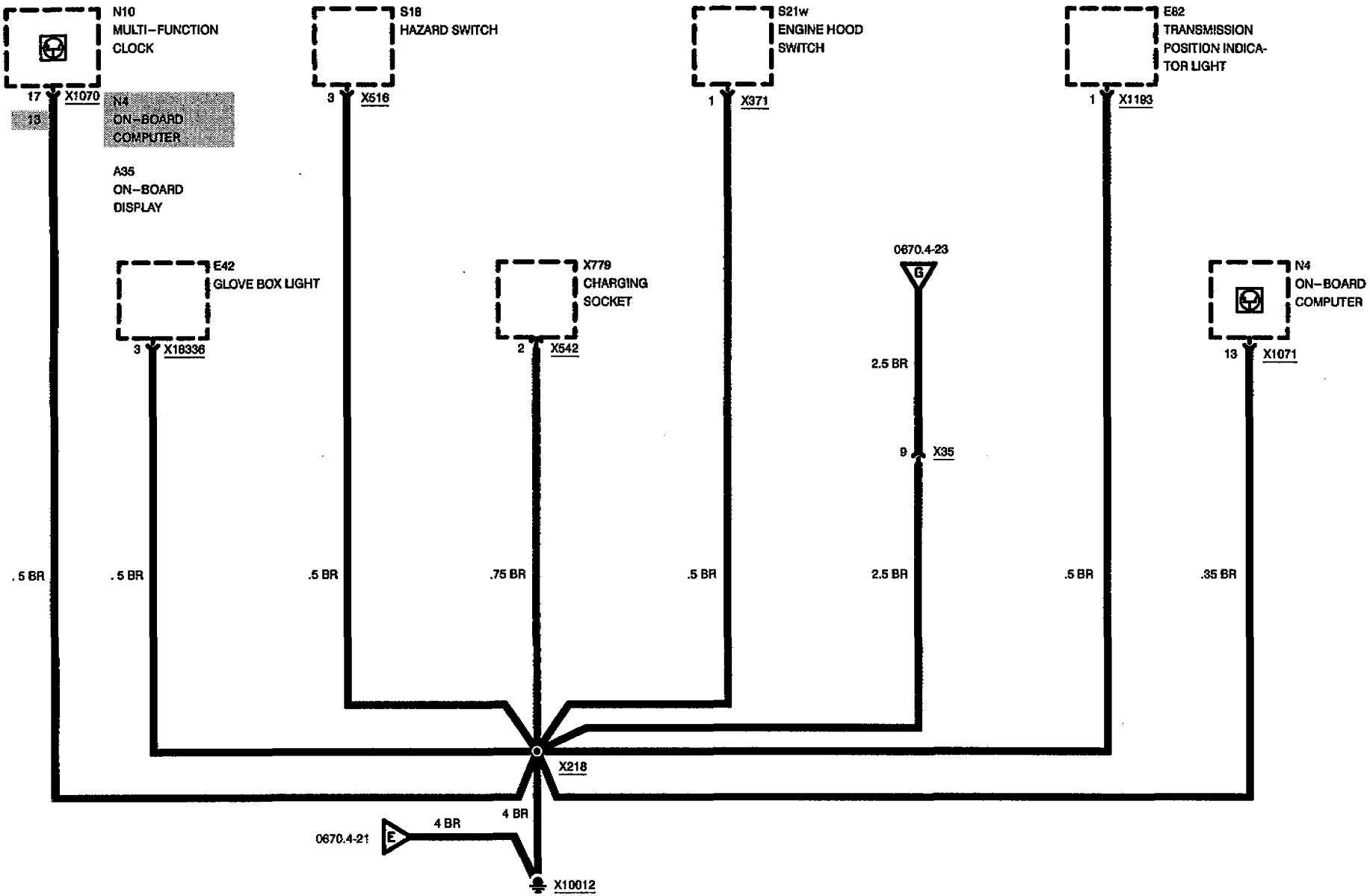
GROUND DISTRIBUTION

GROUND X10012



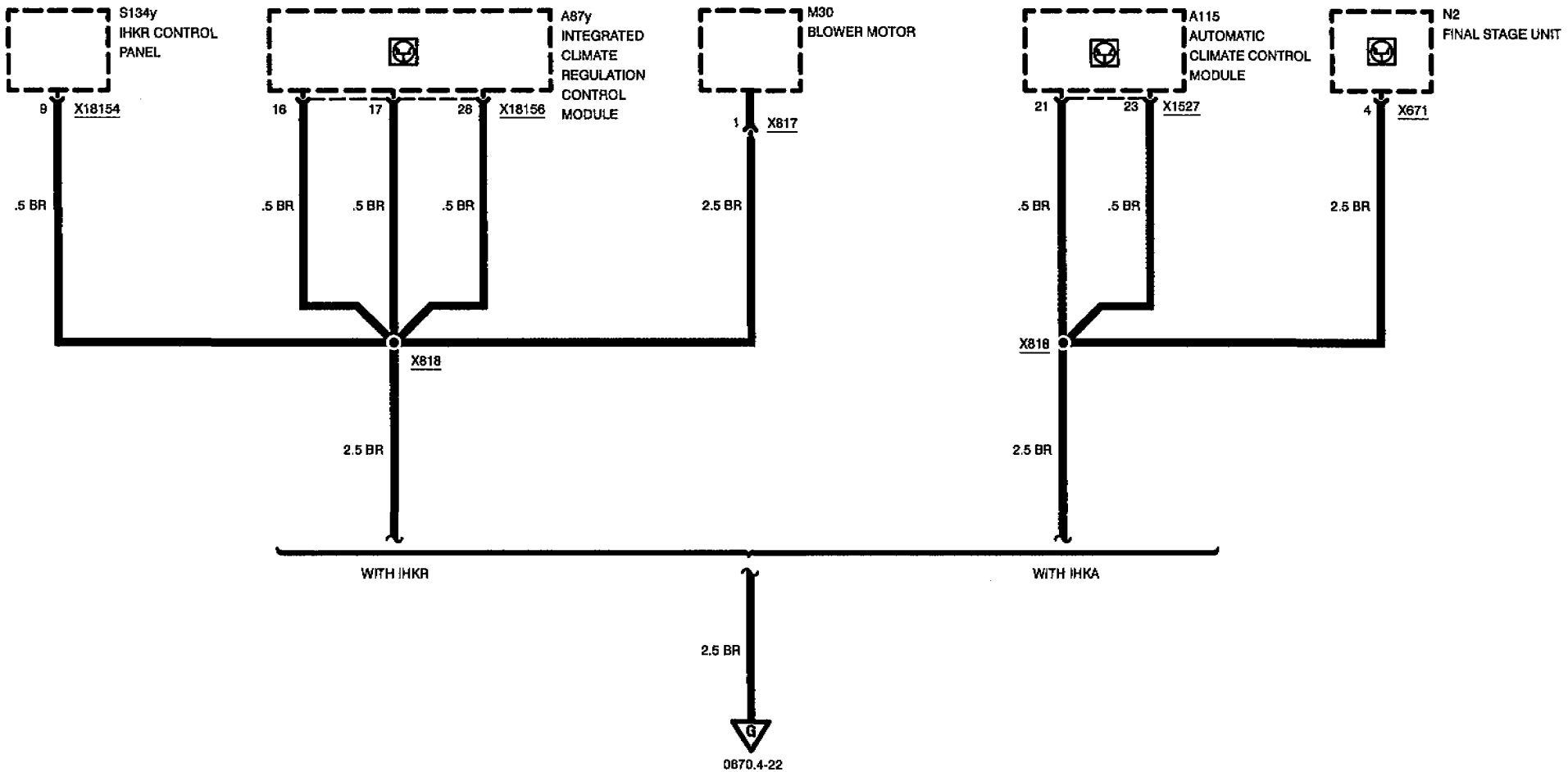
GROUND DISTRIBUTION

GROUND X10012



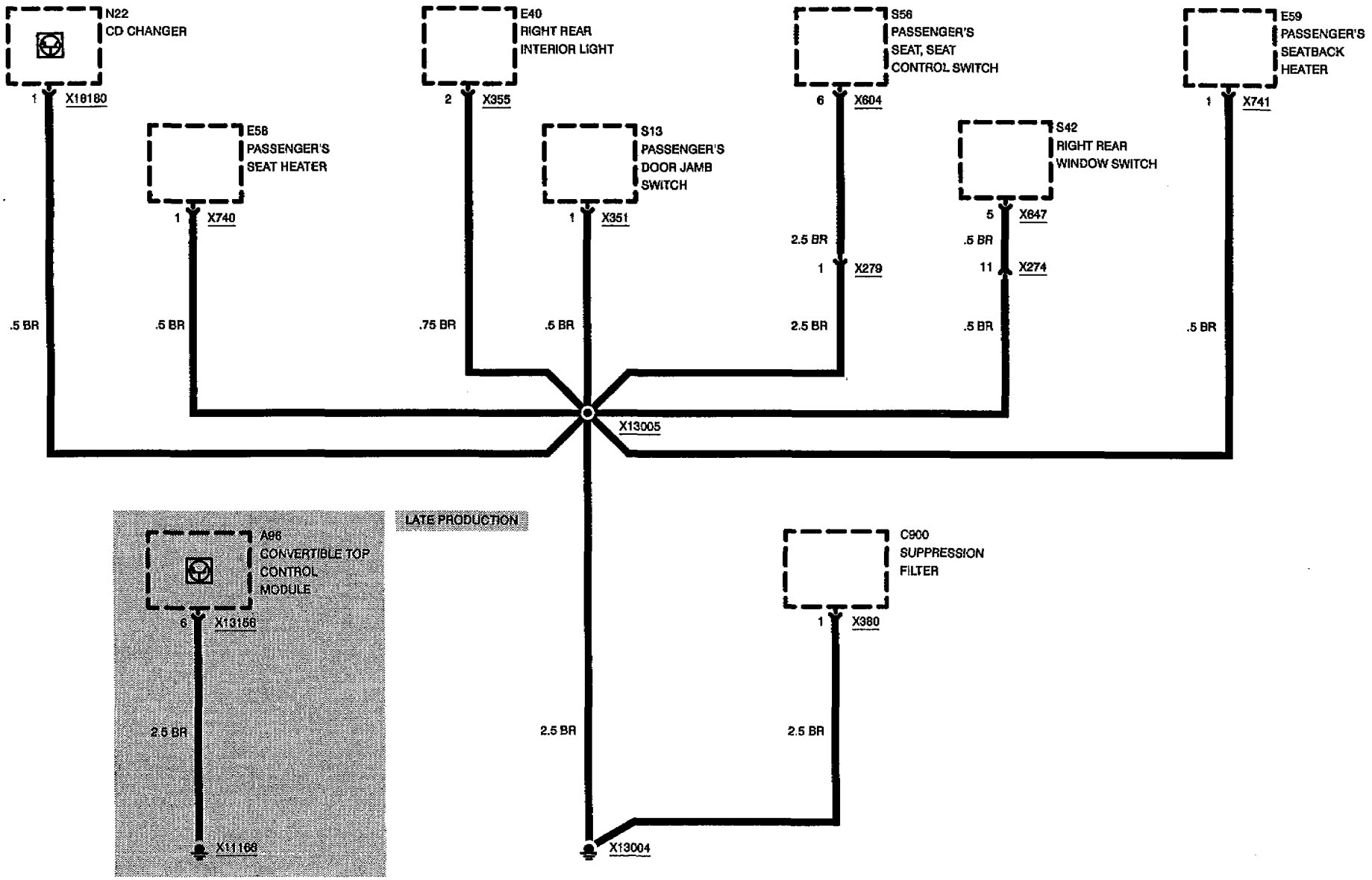
GROUND DISTRIBUTION

GROUND X10012



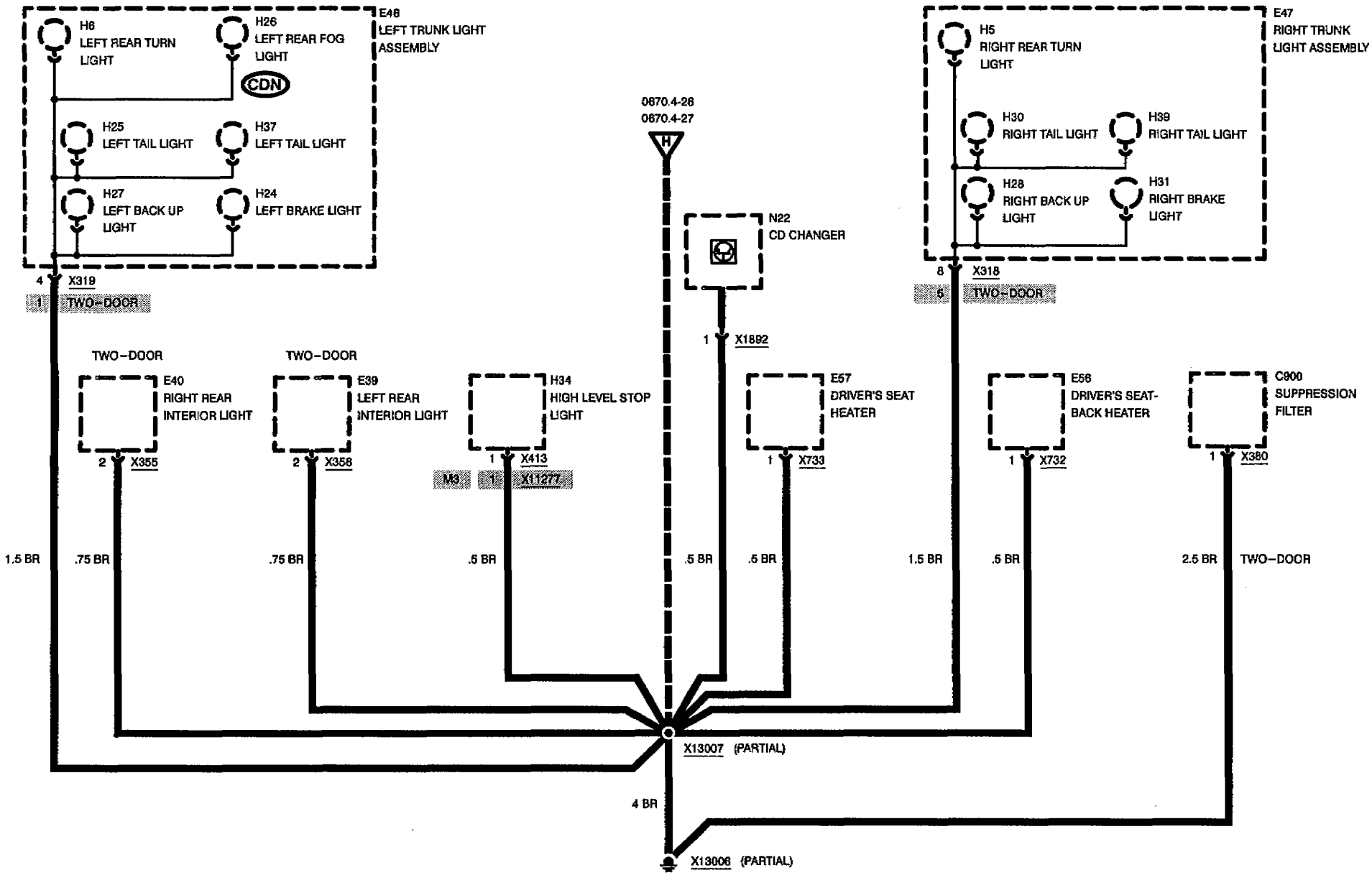
GROUND DISTRIBUTION

GROUNDS X11166 AND X13004



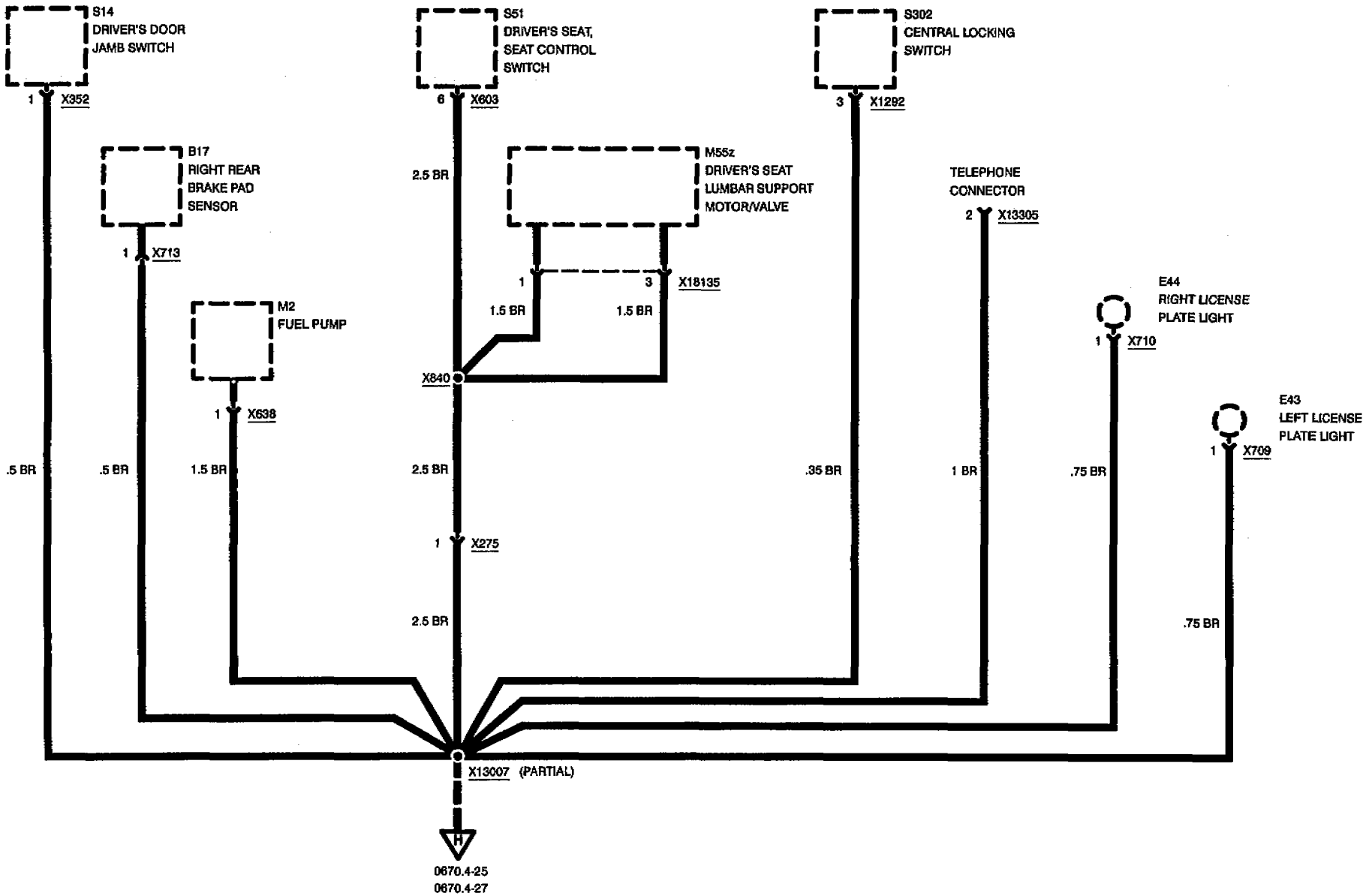
GROUND DISTRIBUTION

GROUND X13006



GROUND DISTRIBUTION

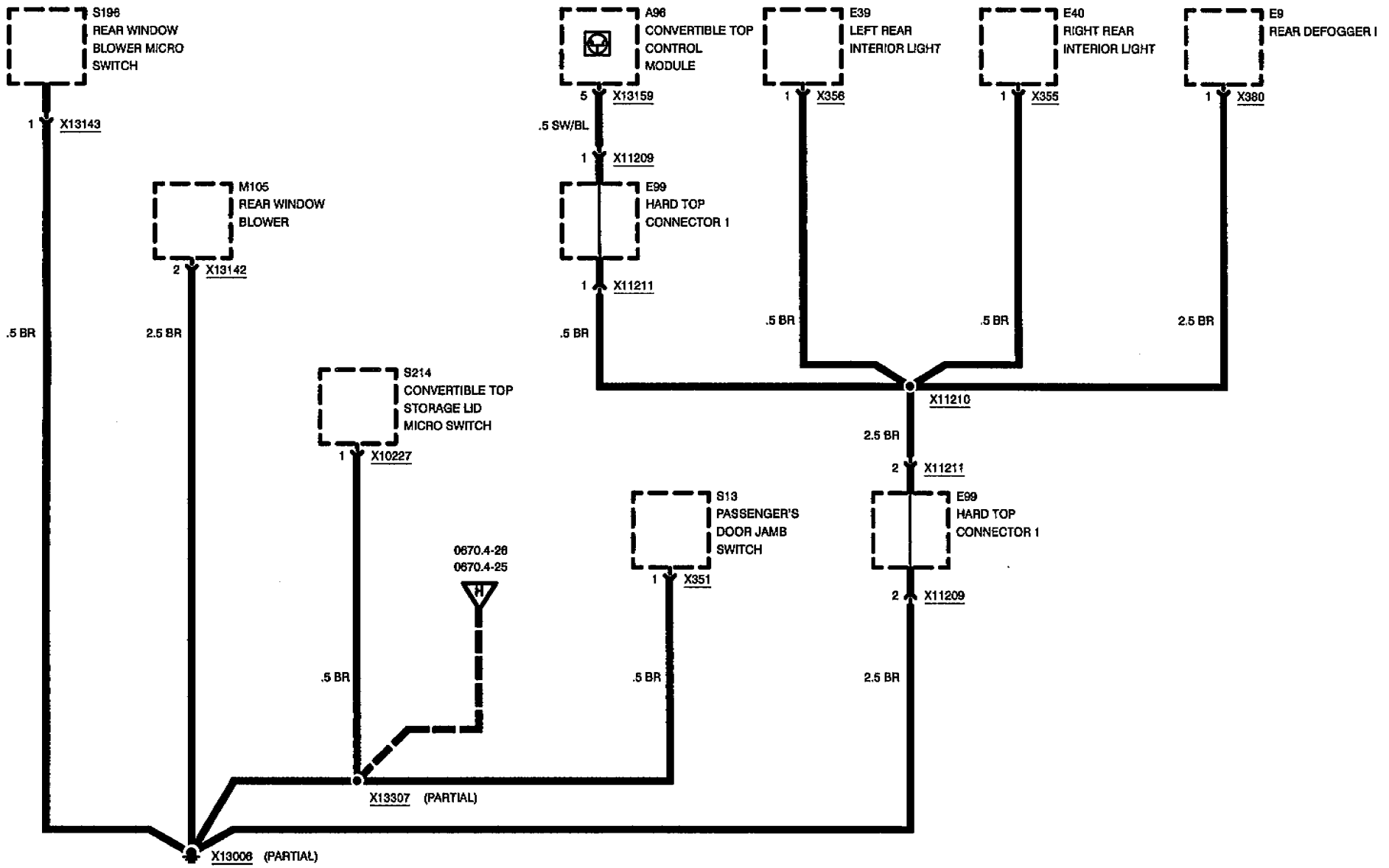
GROUND X13006



GROUND DISTRIBUTION

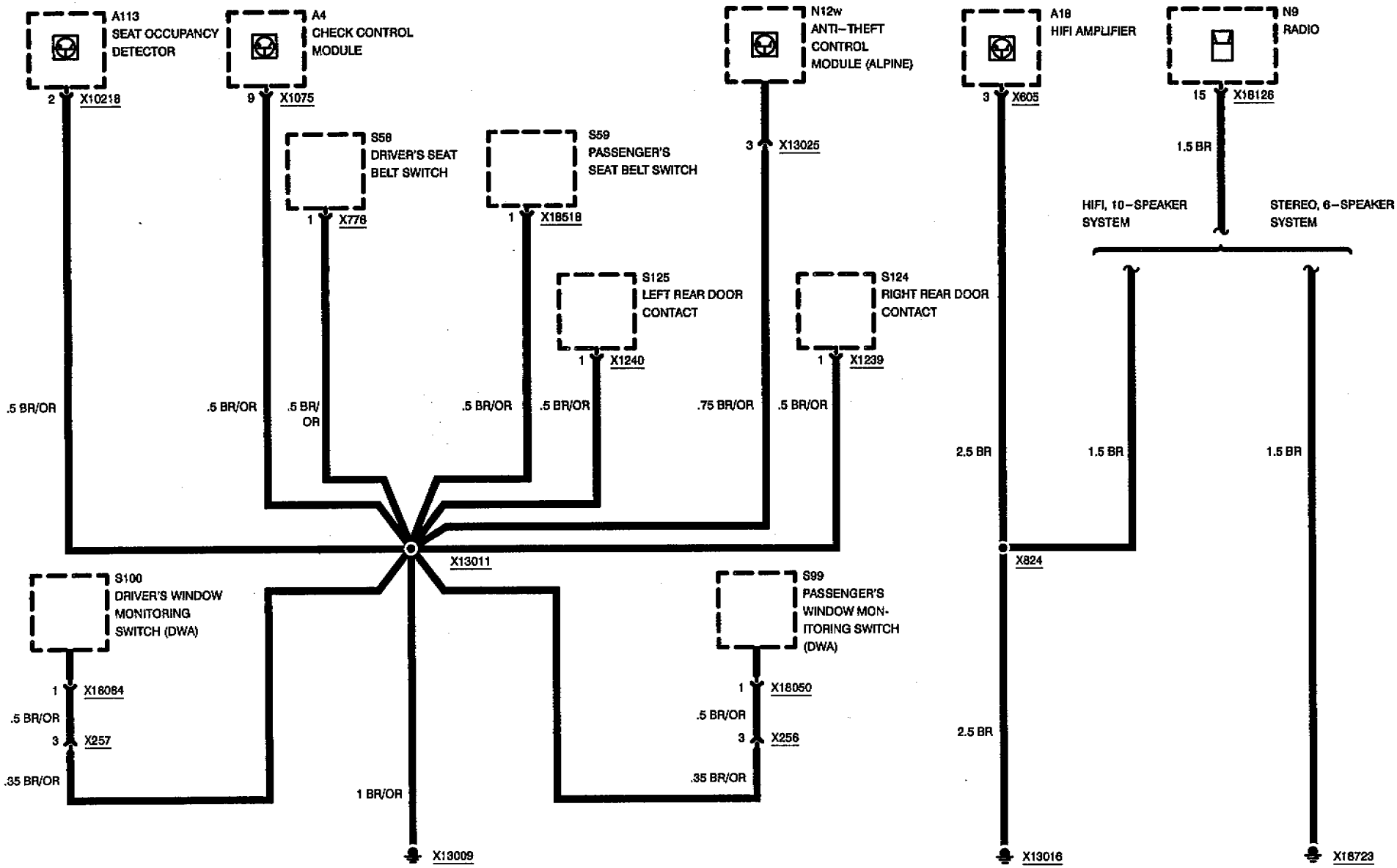
GROUND X13006

CONVERTIBLE



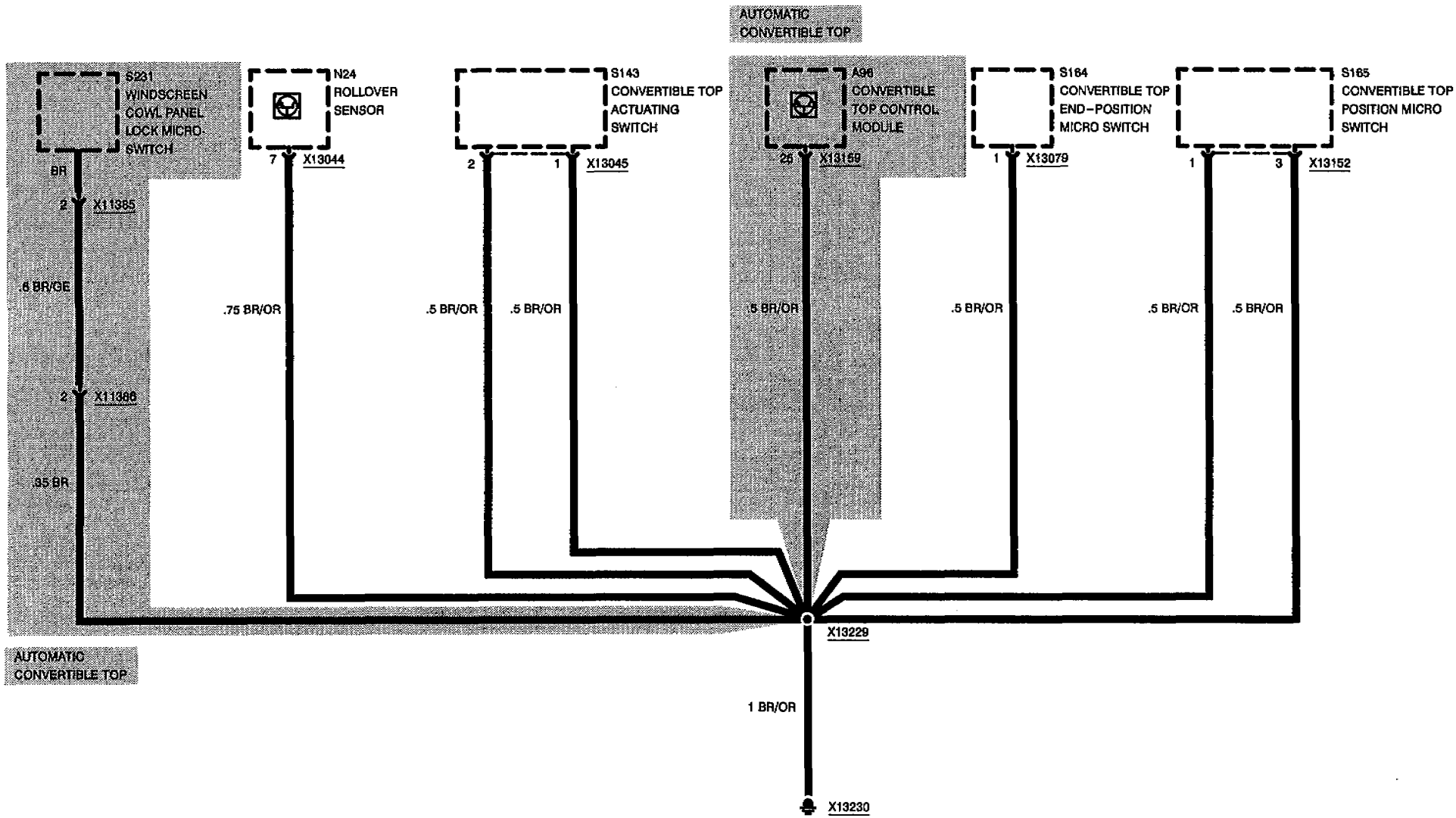
GROUND DISTRIBUTION

GROUNDS X13009, X13016, AND X18723



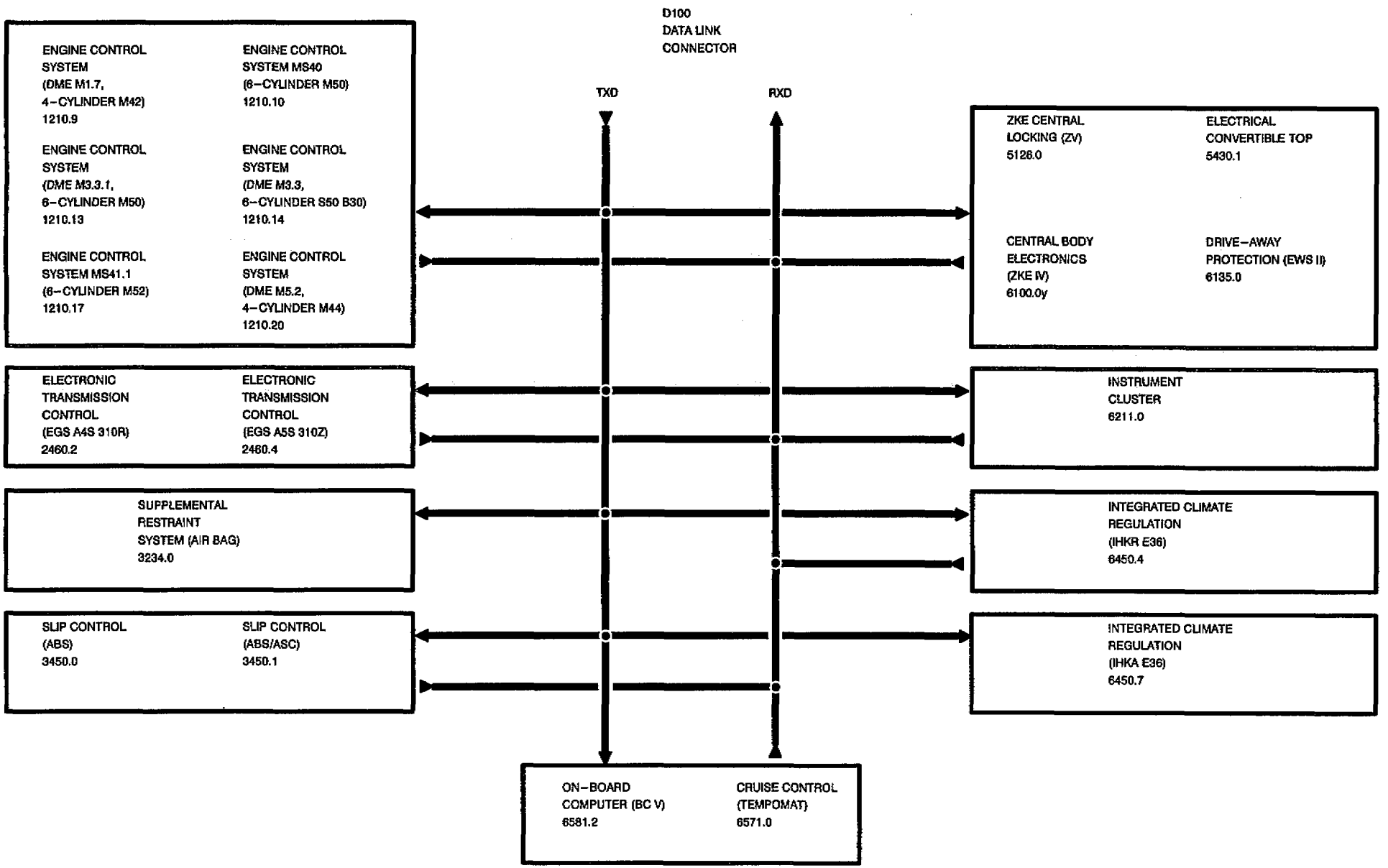
GROUND DISTRIBUTION

GROUND X13230

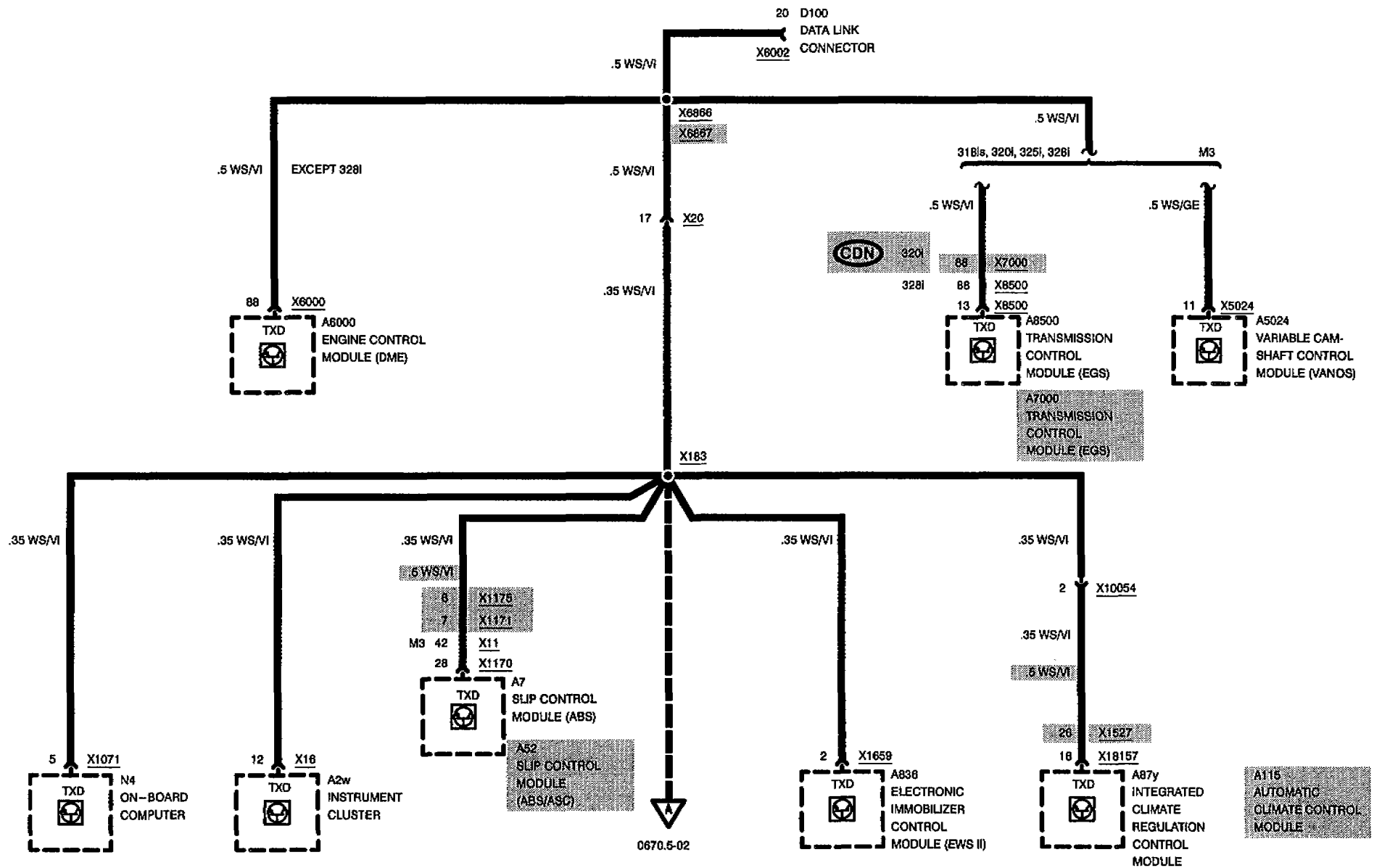


DATA LINK

BLOCK DIAGRAM

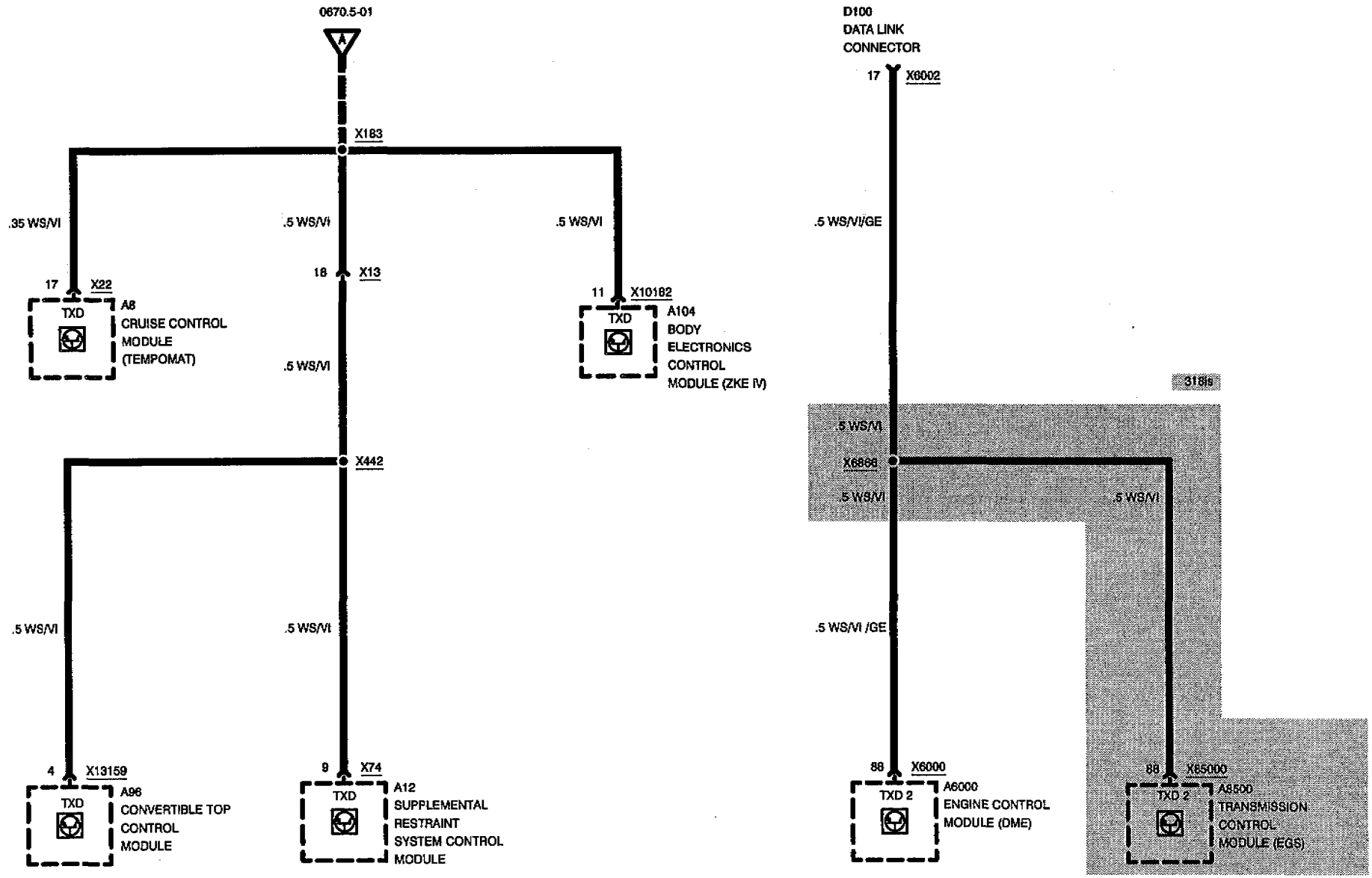


DATA LINK
TXD, PIN 20



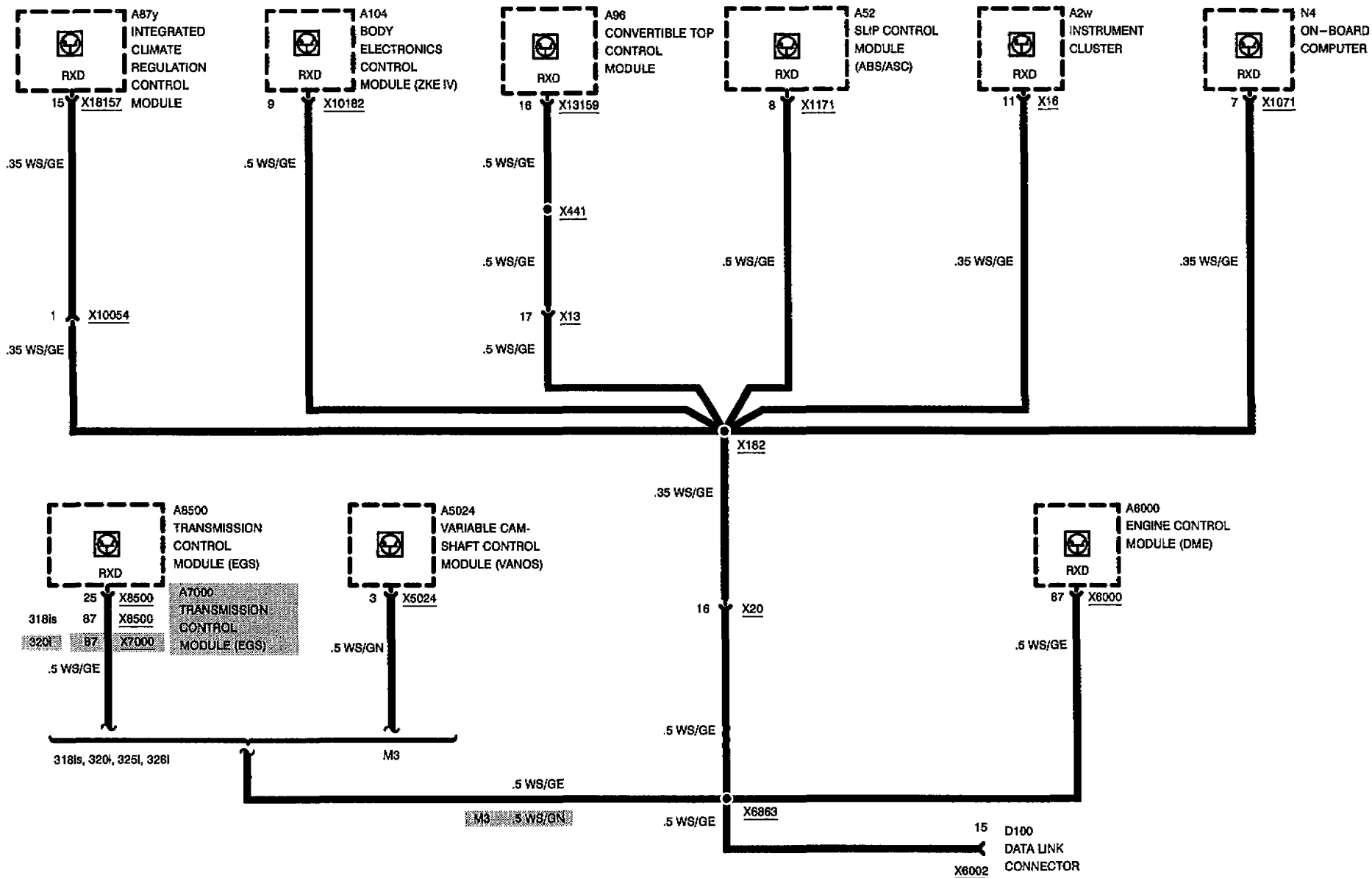
DATA LINK

TXD, PIN 20 AND TXD 2, PIN 17



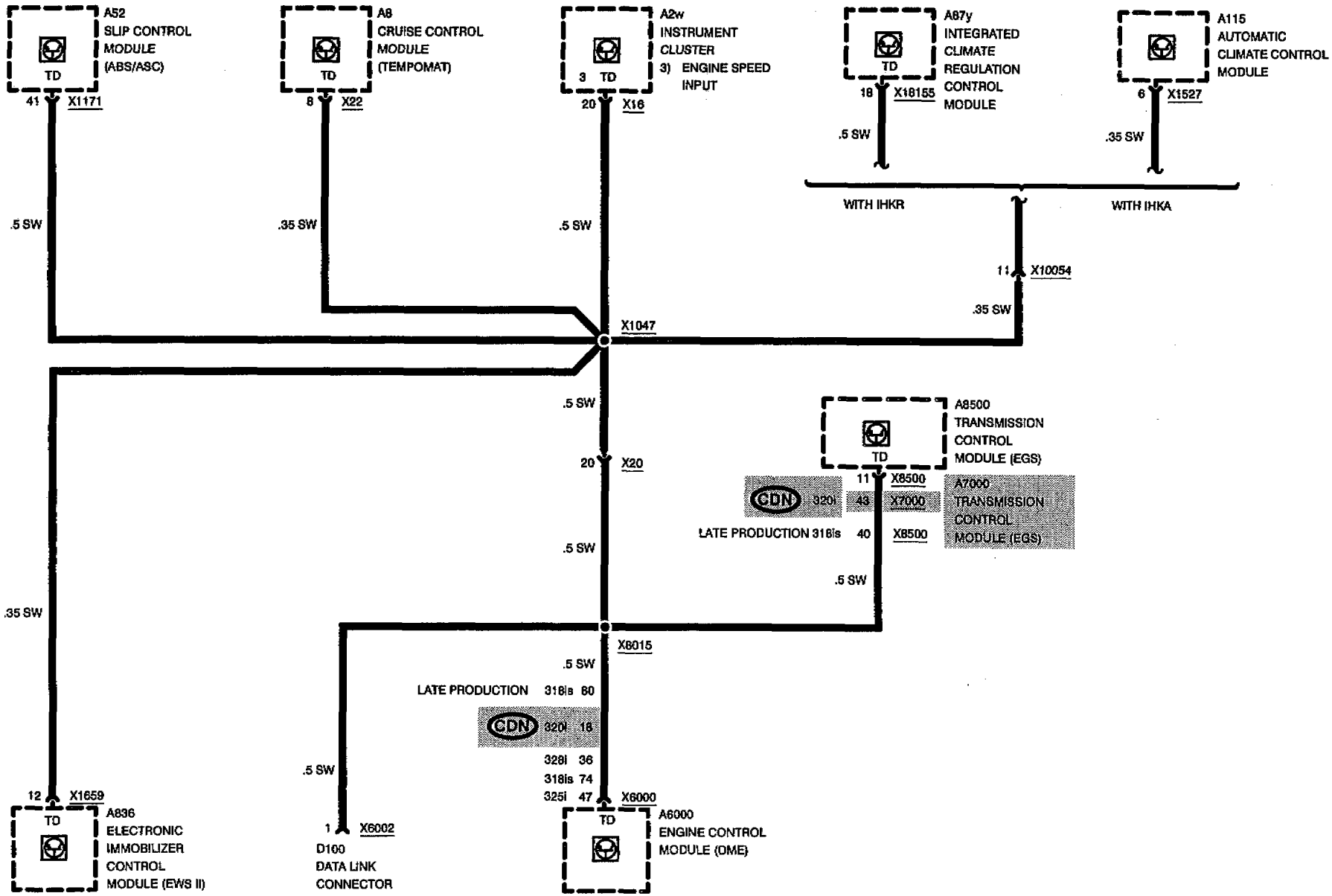
DATA LINK

RXD, PIN 15



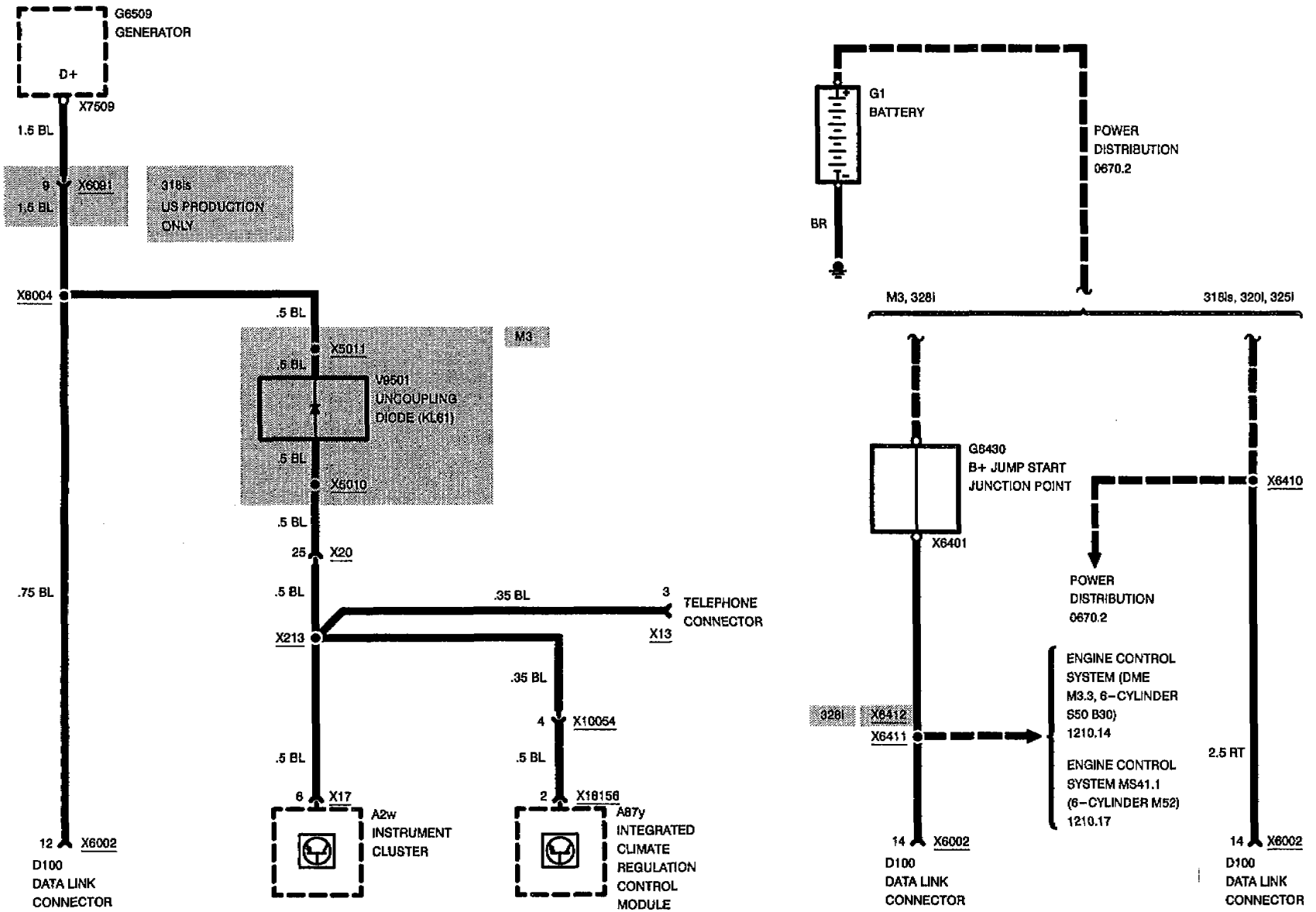
DATA LINK

DATA LINK CONNECTOR, PIN 1



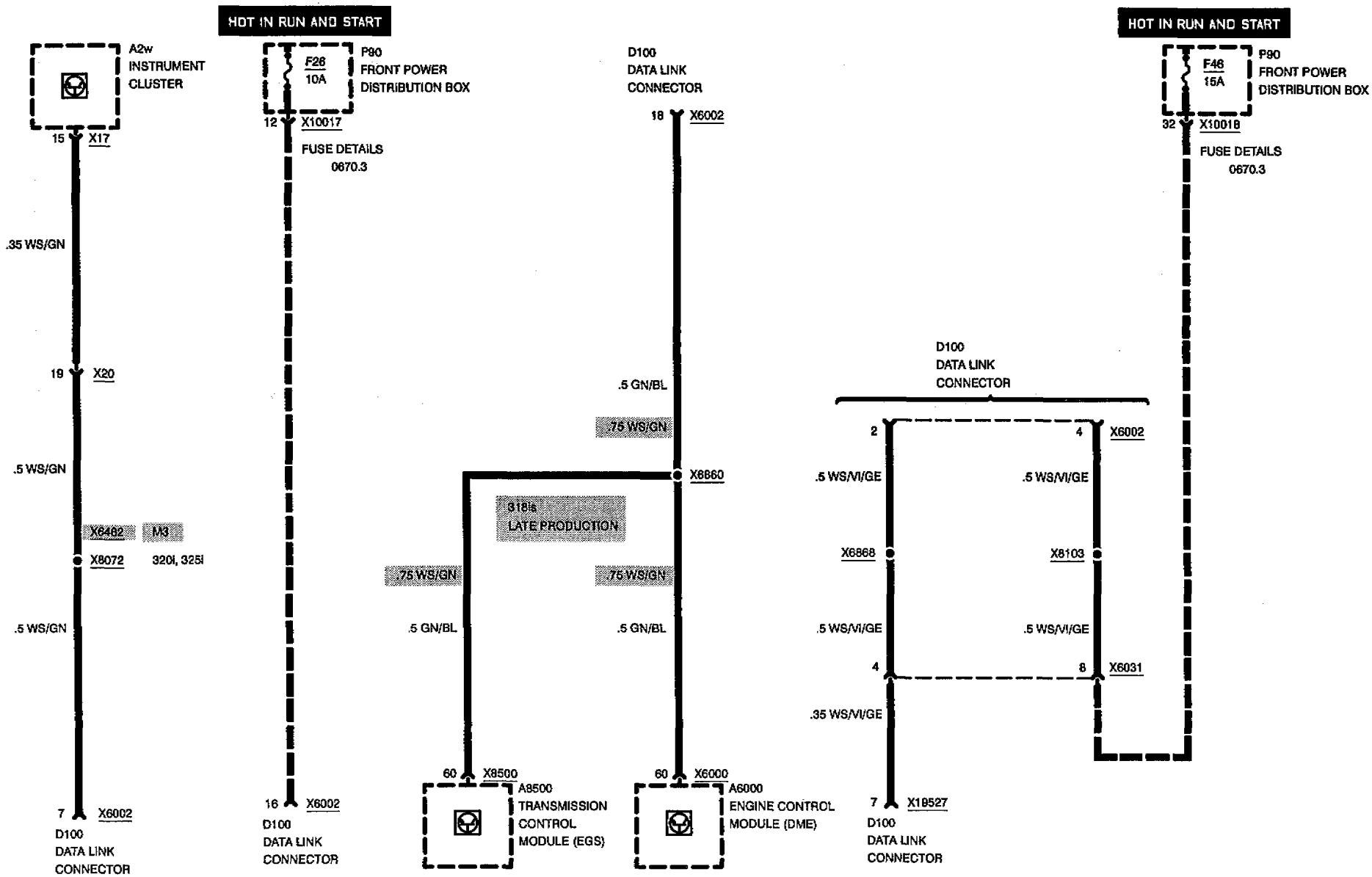
DATA LINK

DATA LINK CONNECTOR, PINS 12 AND 14



DATA LINK

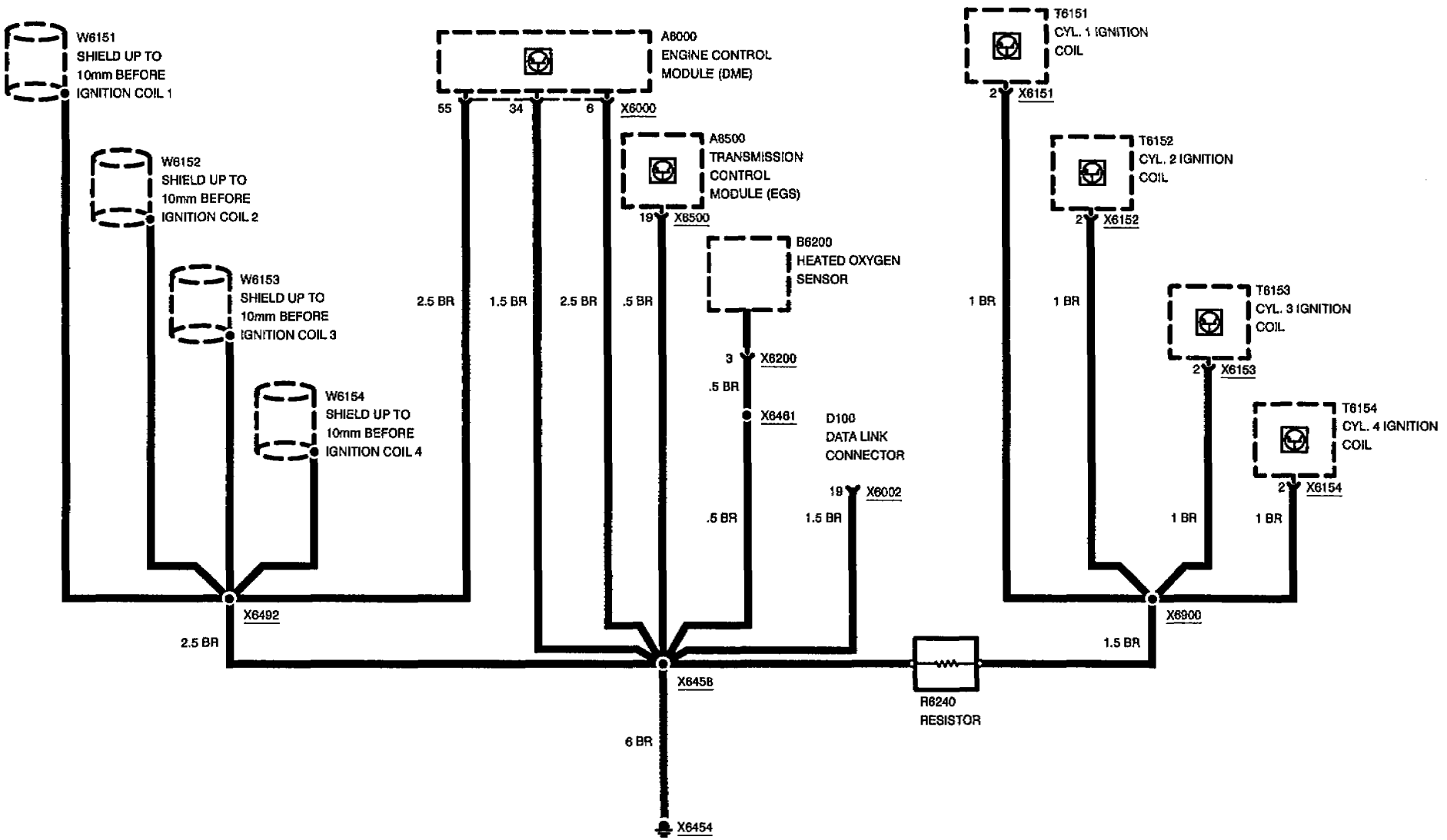
DATA LINK CONNECTOR, PINS 2, 4, 7, 16, AND 18



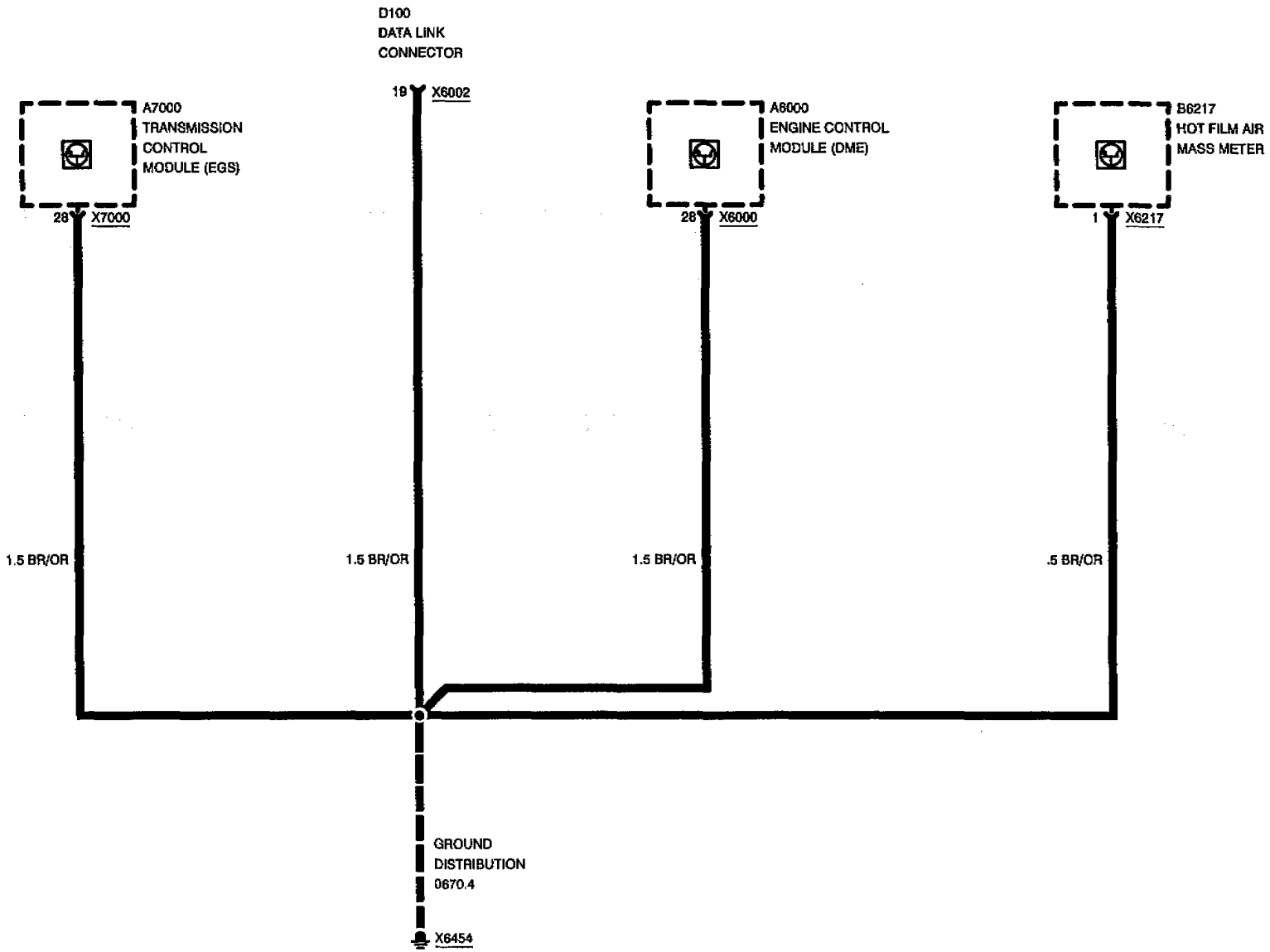
DATA LINK

DATA LINK CONNECTOR, PIN 19

318is



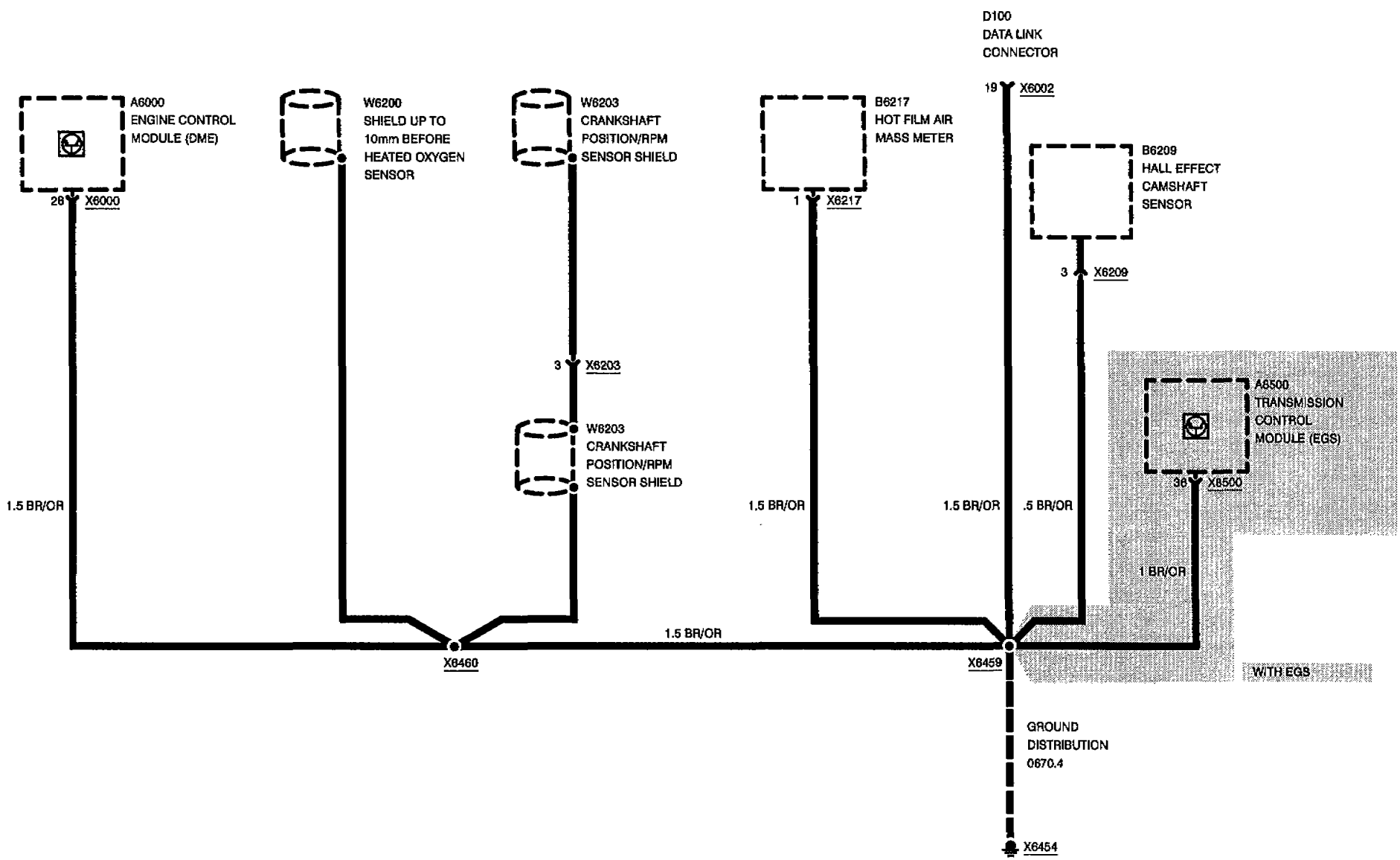
DATA LINK CONNECTOR, PIN 19



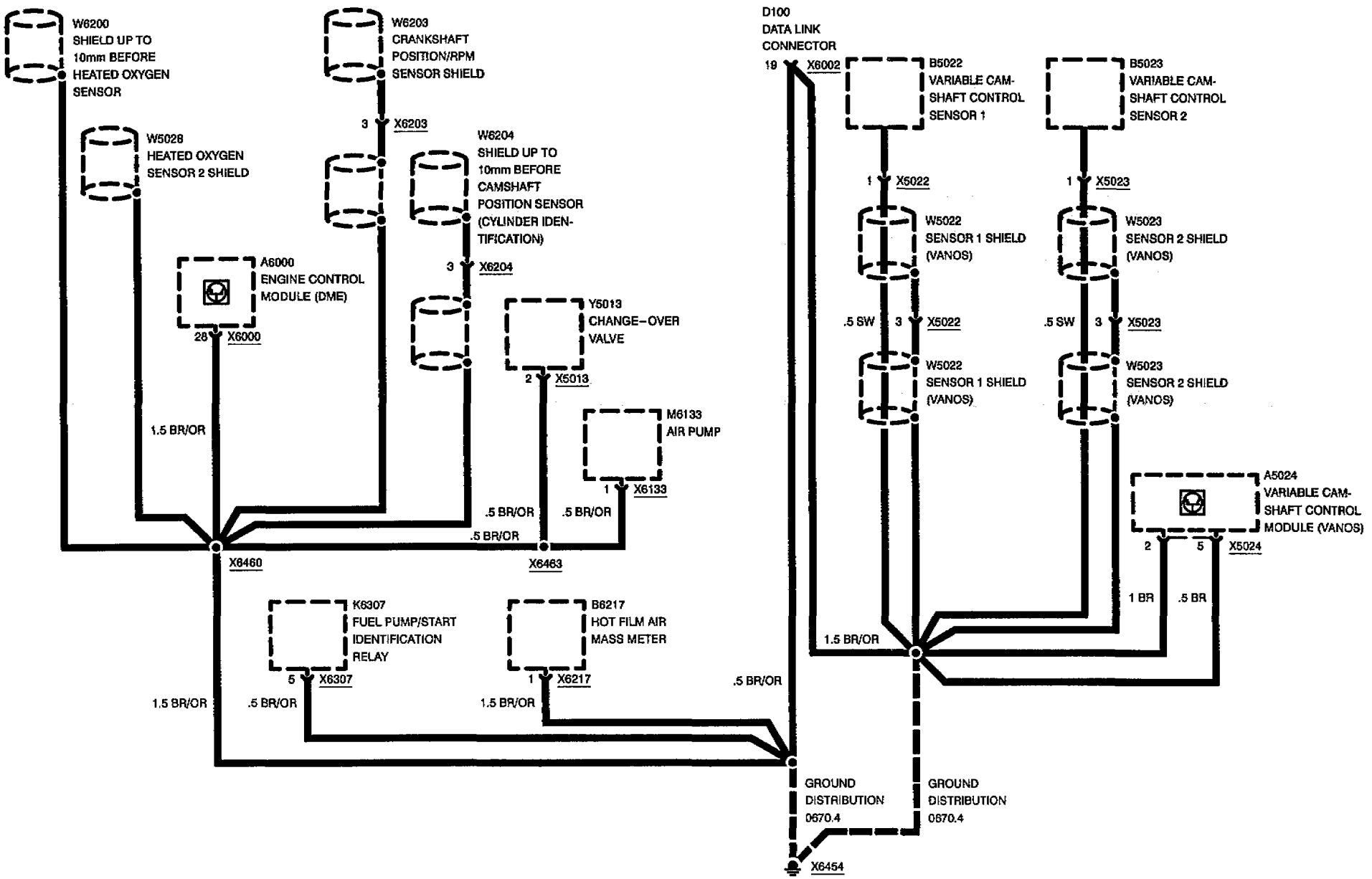
DATA LINK

DATA LINK CONNECTOR, PIN 19

325i

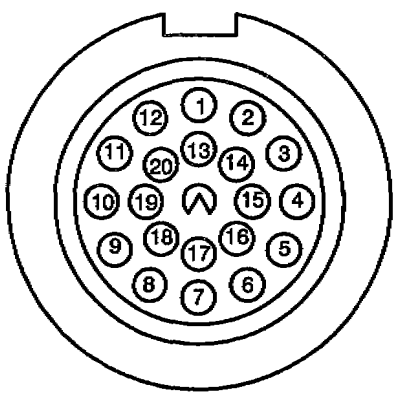


DATA LINK CONNECTOR, PIN 19



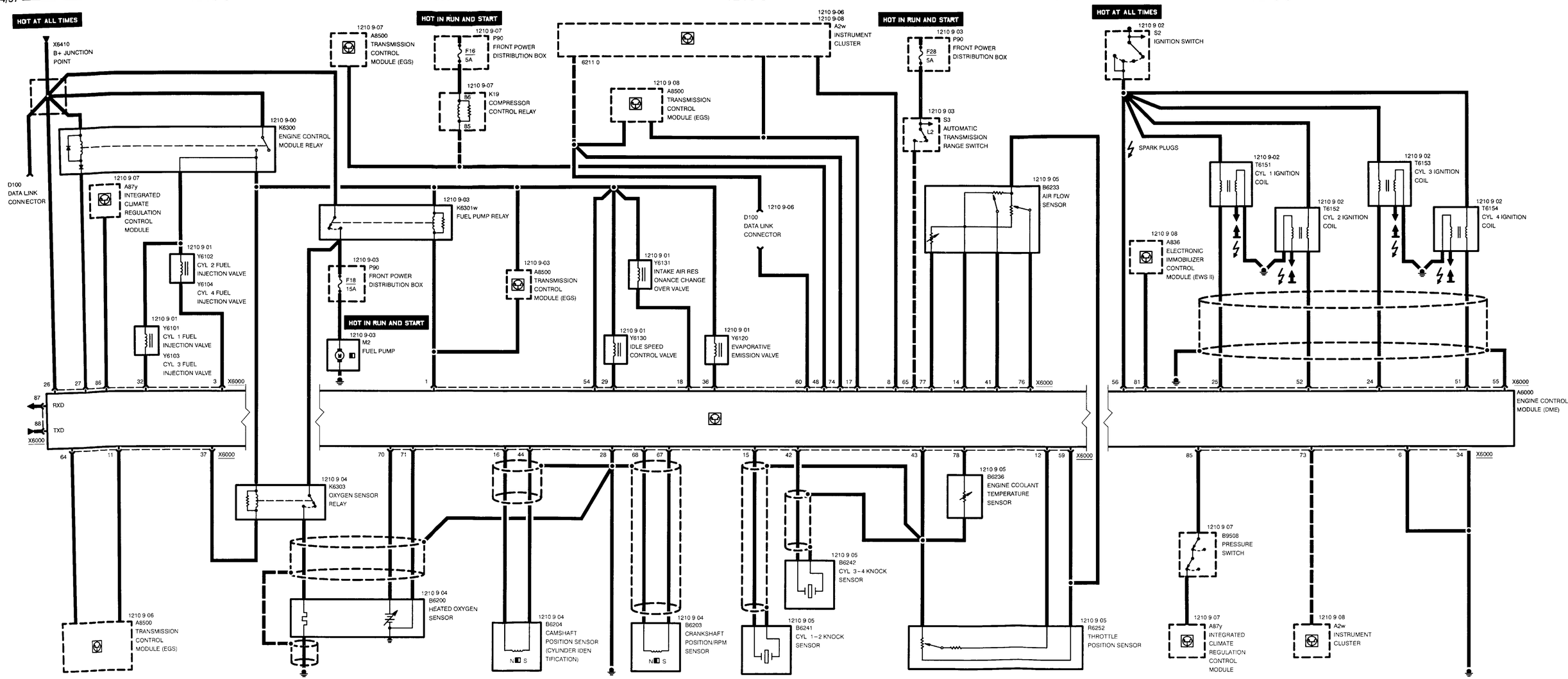
DATA LINK

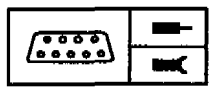
DATA LINK CONNECTOR (X6002)



PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	–	ENGINE	SW
2		OBD II CONNECTOR	WS/VI/GE
3	–	NOT OCCUPIED	
4	R	FUSE 46 (328i)	SW/VI/GE
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	NOT OCCUPIED	
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	TXD 2	DIAGNOSTIC DATA LINK	WS/VI/GE
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

04/97 1210 9 1996
04/97 1210 9 1996



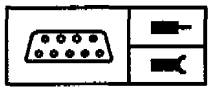


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2		Not used	
3	A	Cyl. 2 and cyl. 4 fuel injection valve control	Cyl. 2 and cyl. 4 fuel injection valves
4		Not used	
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	DKV potentiometer signal	Transmission control module (EGS)
12	E	Throttle position	Throttle position sensor
13		Not used	
14	E	Volume air flow sensor	Volume air flow sensor
15	E	Cyl. 1-2 knock sensor	Cyl. 1-2 knock sensor
16	E	Camshaft position sensor (cylinder identification)	Camshaft position sensor (cylinder identification)
17	A	Ti-measurement signal (fuel consumption)	Instrument cluster
18	A	Intake air resonance changeover valve control	Intake air resonance changeover valve
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

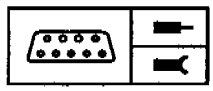
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30		Not used	
31		Not used	
32	A	Cyl. 1 and cyl. 3 fuel injection valve control	Cyl. 1 and cyl. 3 fuel injection valves
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
38		Not used	
39		Not used	
40		Not used	
41	E	Volume air flow sensor	Volume air flow sensor
42	E	Cyl. 3-4 knock sensor	Cyl. 3-4 knock sensor
43	M	Ground for sensors	Engine coolant temperature sensor, cyl. 1-2 knock sensor, cyl. 3-4 knock sensor, and throttle position sensor
44	E	Camshaft position sensor (cylinder indentification)	Camshaft position sensor (cylinder indentification)
45		Not used	
46		Not used	
47		Not used	
48	A	A/C compressor cut-out	Compressor control relay, terminal 85
49		Not used	
50		Not used	
51	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
52	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57		Not used	

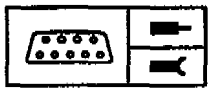
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
58		Not used	
59	A	5V component supply	Throttle position sensor and volume air flow sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	Ignition timing intervention	Transmission control module (EGS)
65	E	Drive range P/N	Automatic transmission range switch
66		Not used	
67	E	Crankshaft position/RPM sensor	Crankshaft position/RPM sensor
68	E	Crankshaft position/RPM sensor	Crankshaft position/RPM sensor
69		Not used	
70	E	Oxygen sensor signal	Heated oxygen sensor
71	M	Oxygen sensor signal ground	Heated oxygen sensor
72		Not used	
73	E	Vehicle speed signal	Instrument cluster
74	A	Crankshaft RPM speed signal TD	Instrument cluster
75		Not used	
76	E	Volume air flow sensor	Volume air flow sensor
77	E	Volume air flow sensor	Volume air flow sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive-away protection signal (code)	Electronic immobilizer control module (EWS II)
82		Not used	
83		Not used	
84		Not used	
85	E	A/C pressure	Pressure switch
86	A	Auxiliary ventilation signal	Integrated climate regulation control module

E = Input, A = Output, M = Ground



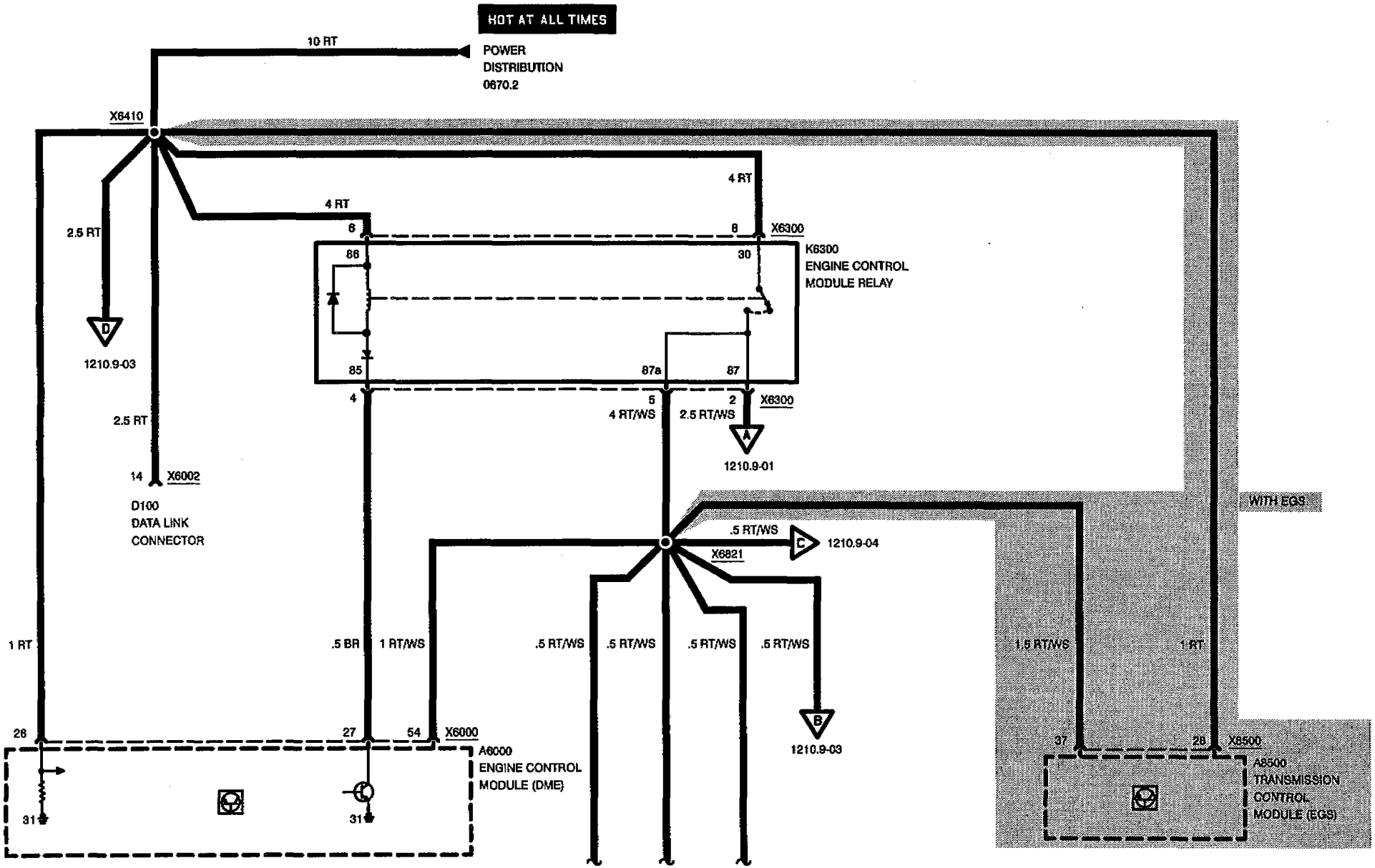
Pin Assignments

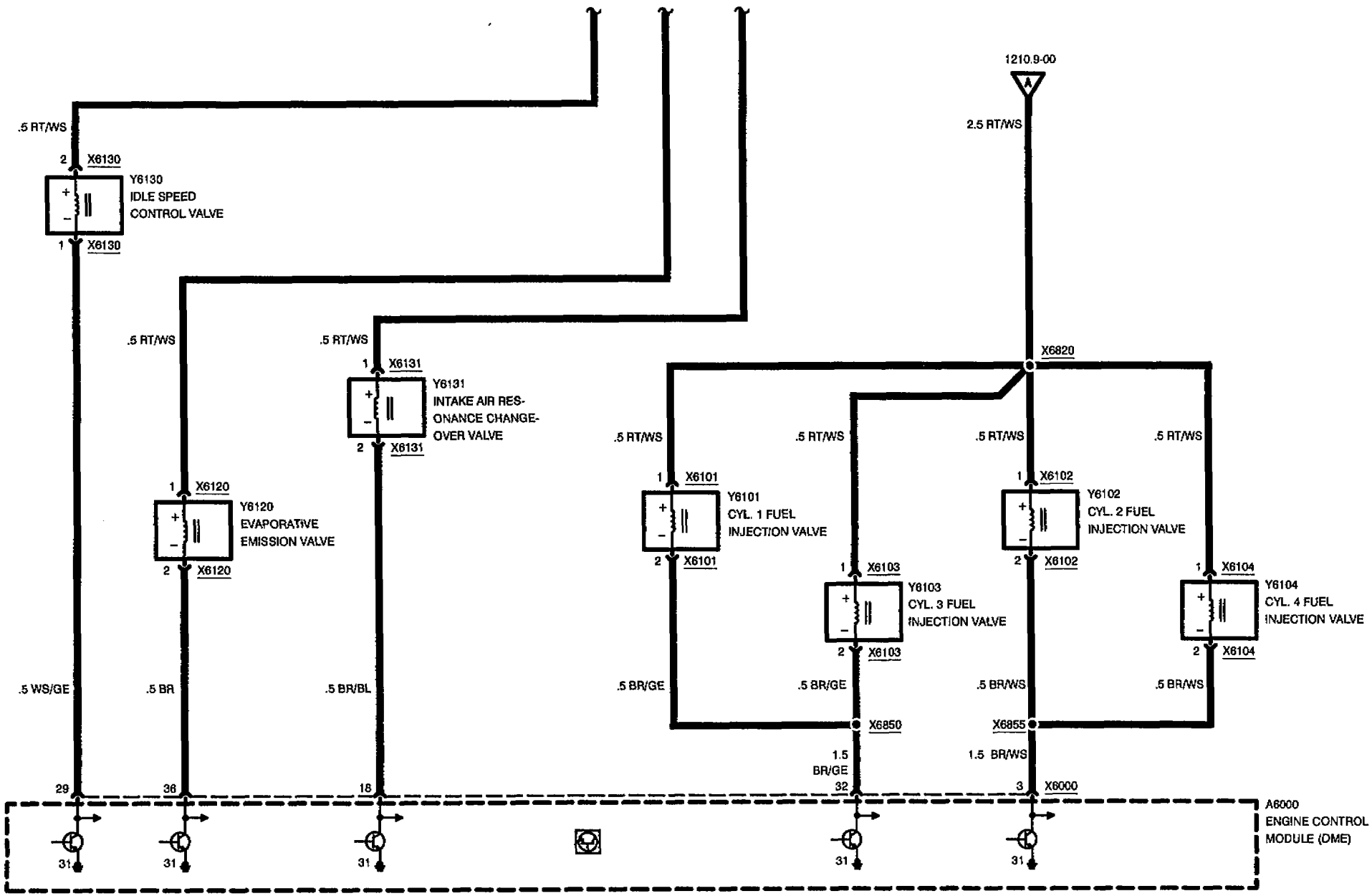
Pin	Type	Description/Function	Connection
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

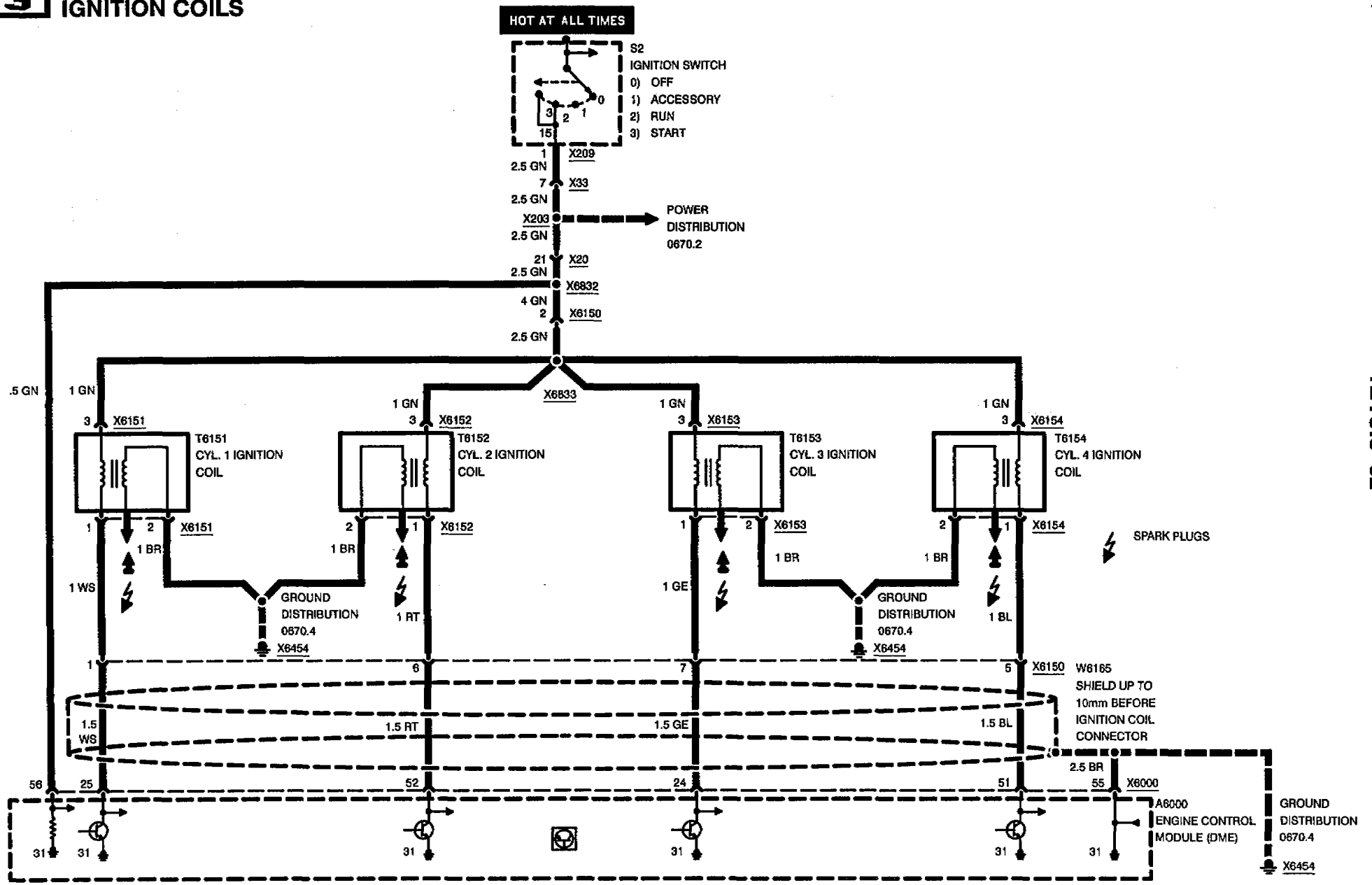
POWER, FUEL INJECTION VALVES




1210.9-00
.5 RT/WS
2 X6130
Y6130
IDLE SPEED
CONTROL VALVE
1 X6130
.5 RT/WS
.5 RT/WS
1 X6131
Y6131
INTAKE AIR RES-
ONANCE CHANGE-
OVER VALVE
2 X6131
2.5 RT/WS
X6820
.5 RT/WS
1 X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2 X6120
.5 RT/WS
1 X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2 X6101
.5 RT/WS
1 X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2 X6103
.5 RT/WS
1 X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2 X6102
.5 RT/WS
1 X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
2 X6104
.5 WS/GE
.5 BR
.5 BR/BL
.5 BR/GE
.5 BR/GE
.5 BR/WS
.5 BR/WS
X6850
X6855
1.5
BR/GE
1.5 BR/WS
29
36
18
32
3 X6000
31
31
31
31
31
A6000
ENGINE CONTROL
MODULE (DME)

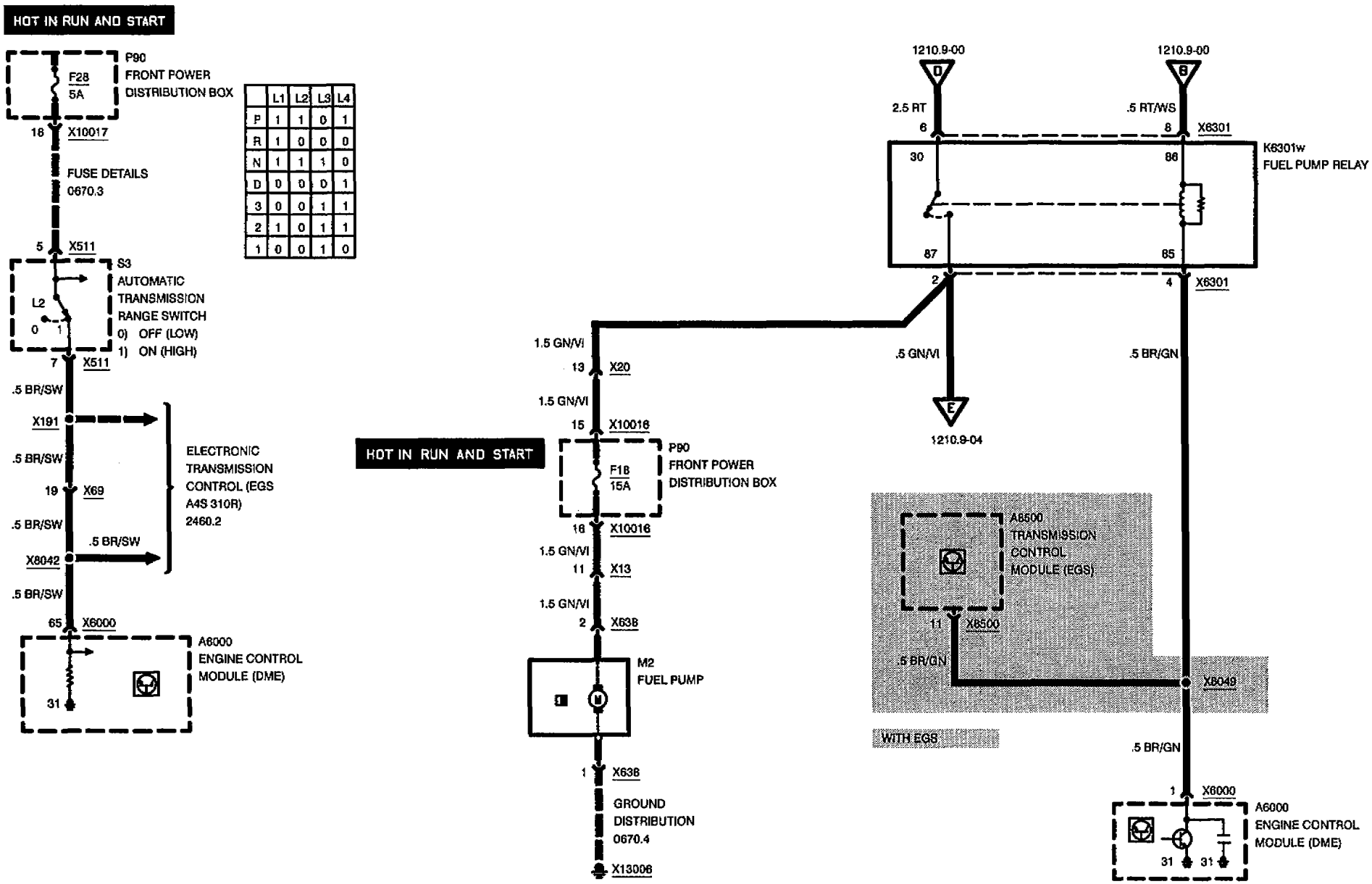
ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

IGNITION COILS



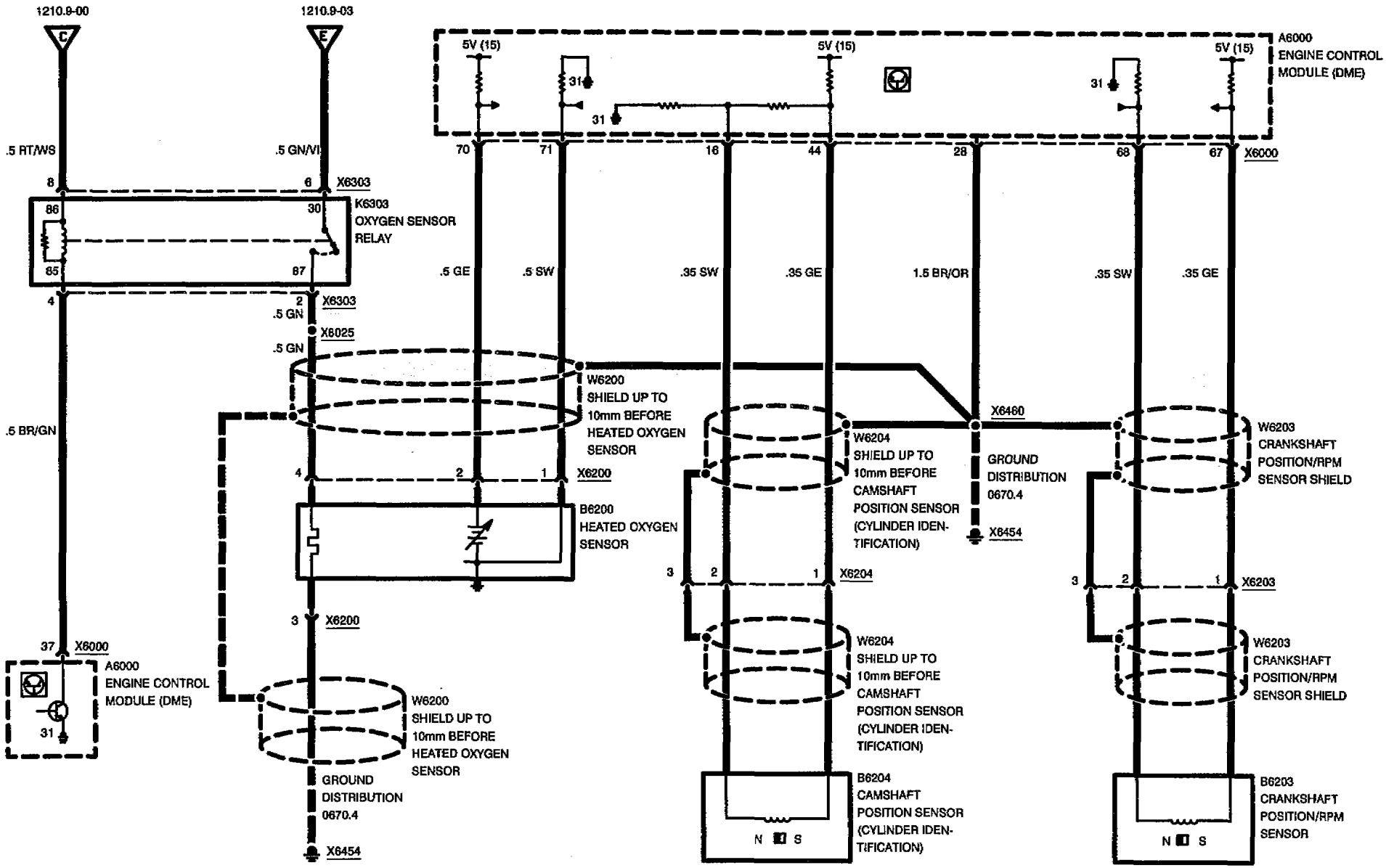
ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

FUEL PUMP

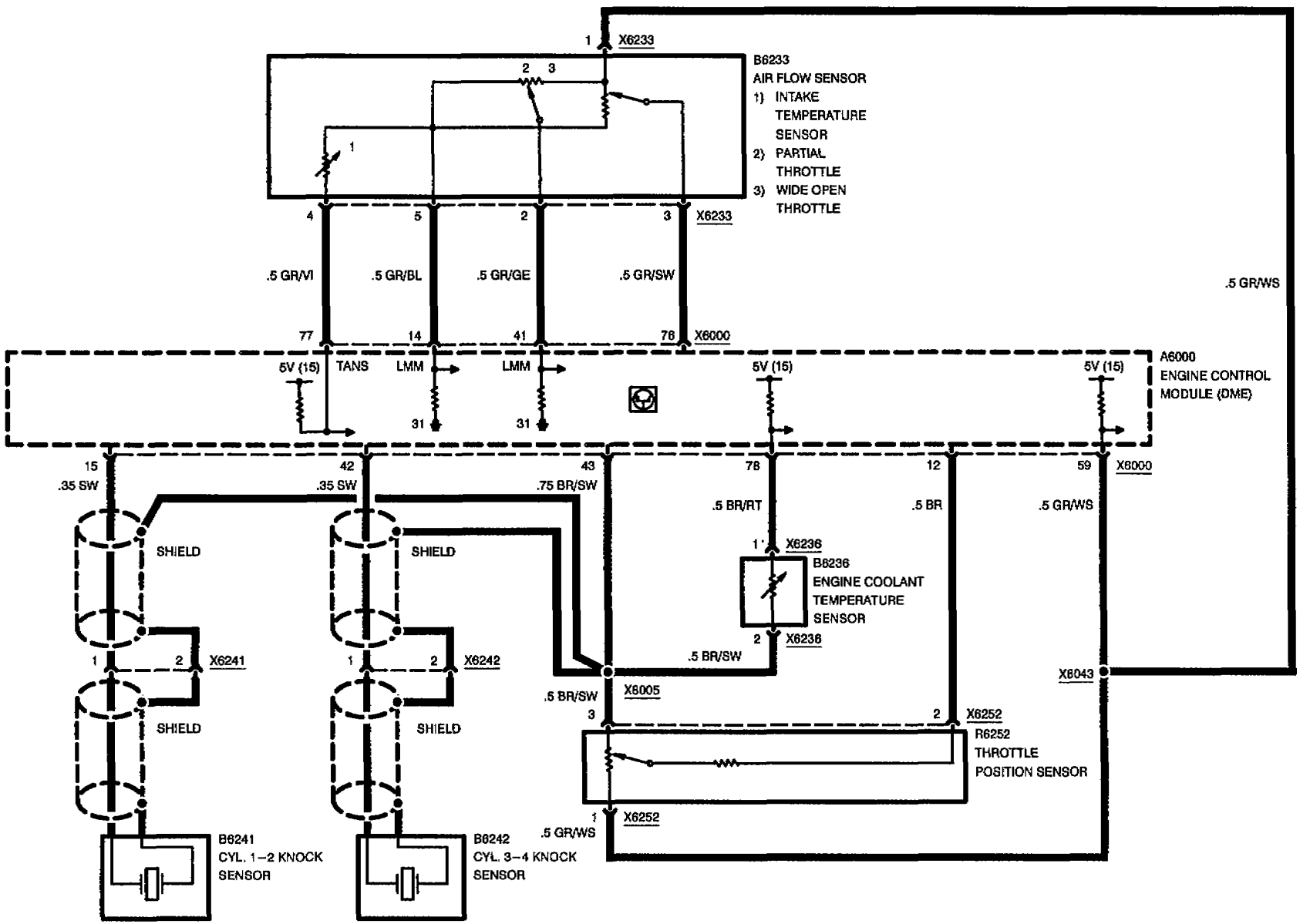


ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

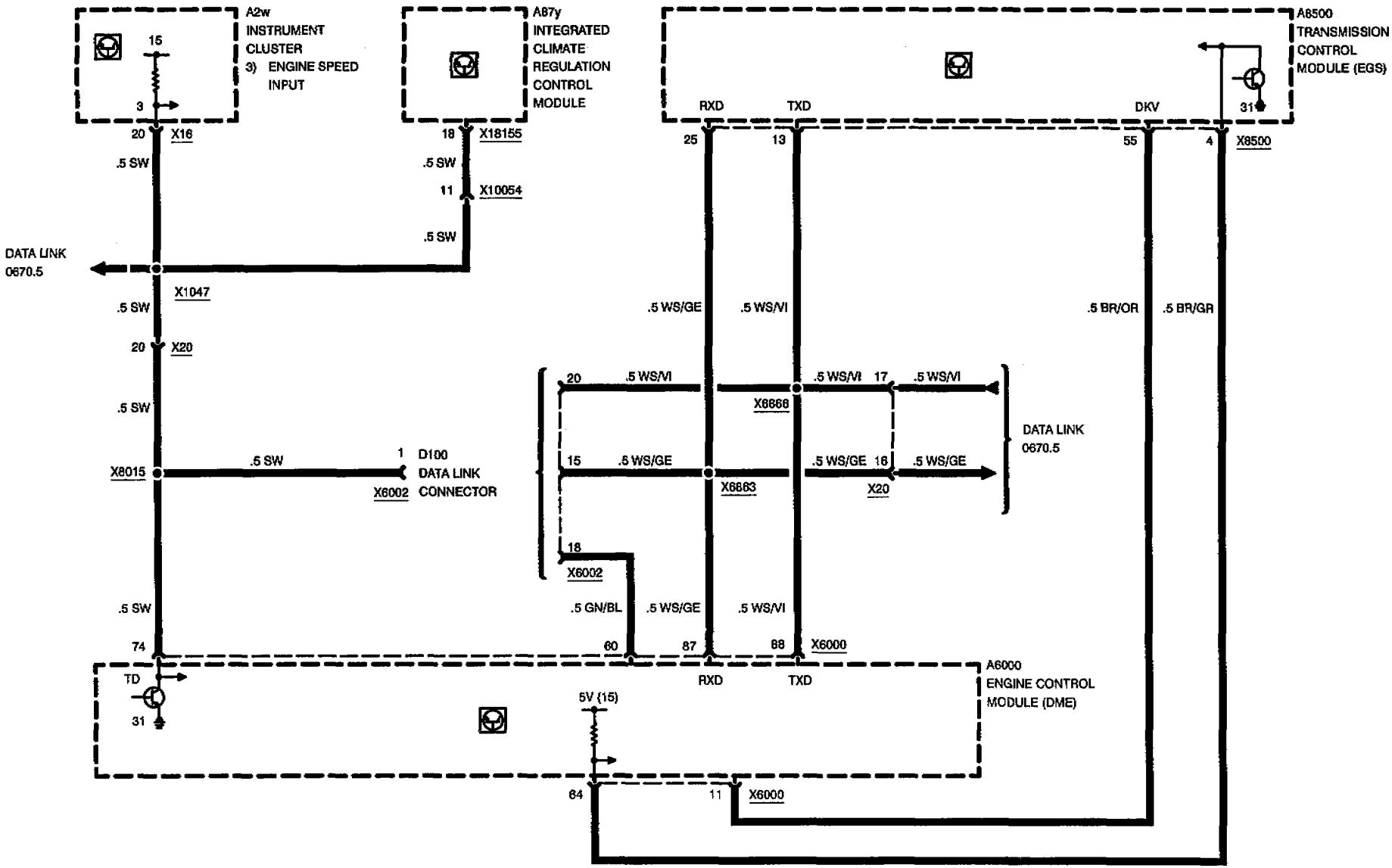


ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

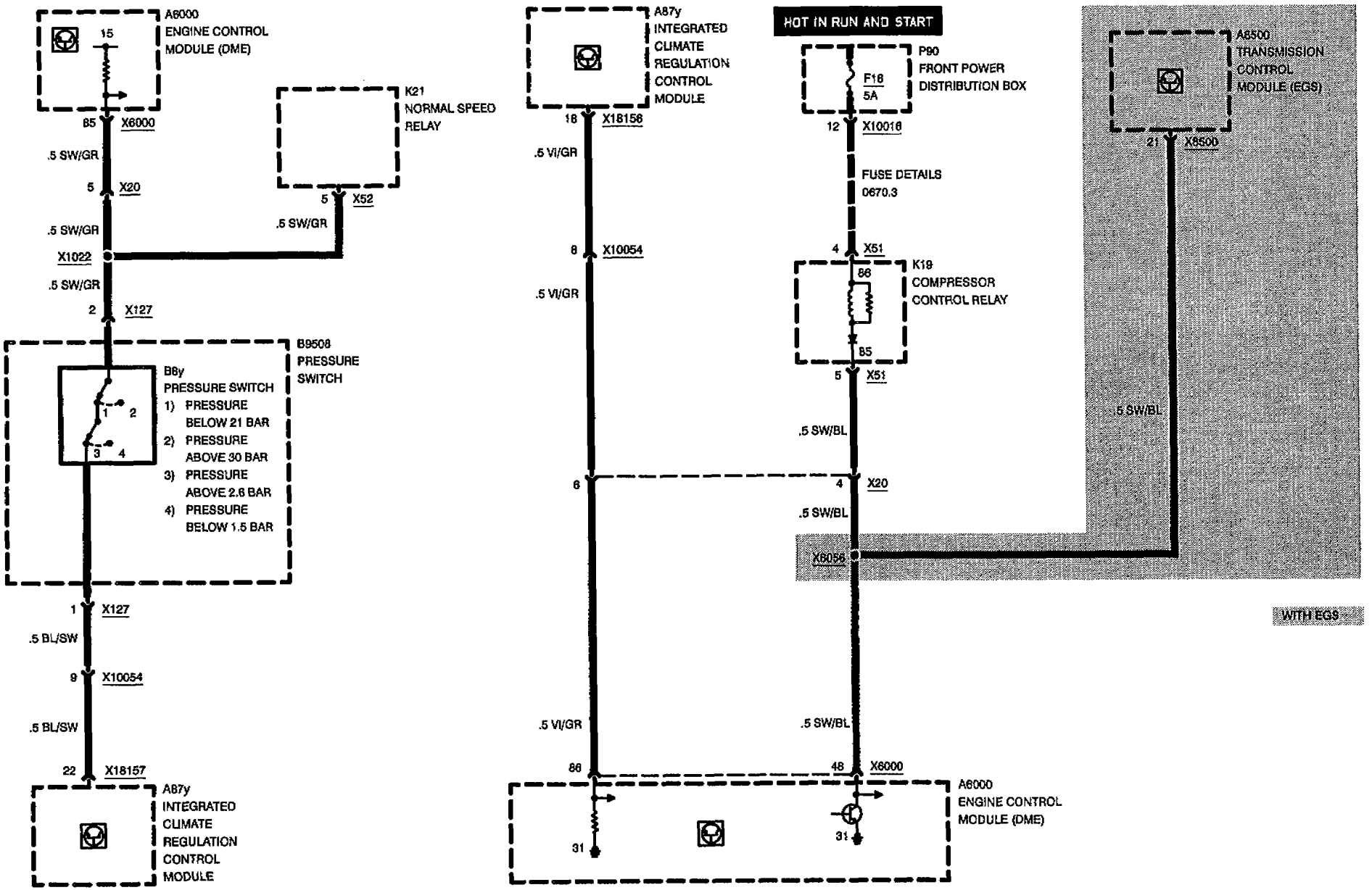


ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)

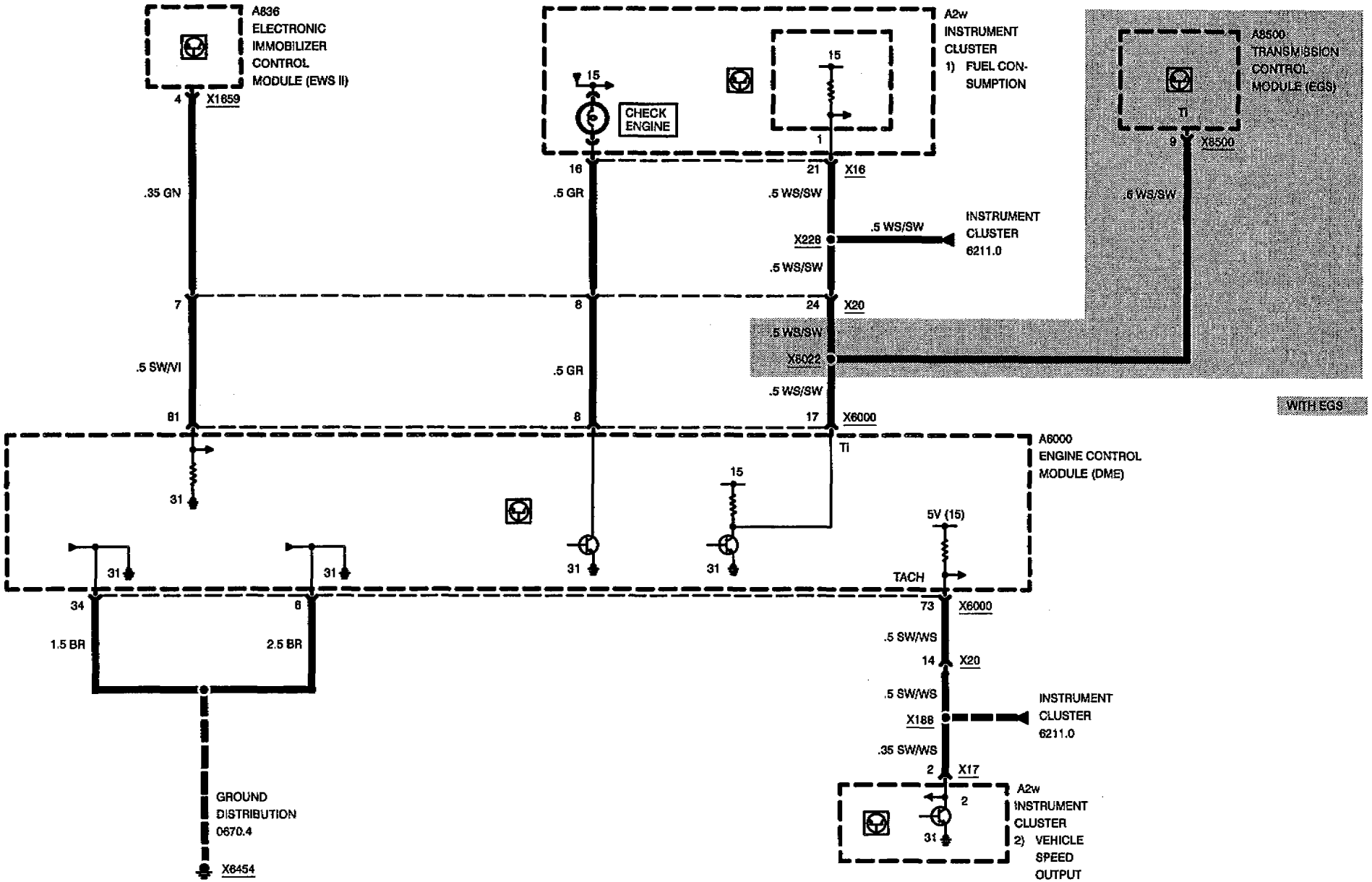
DATA LINK

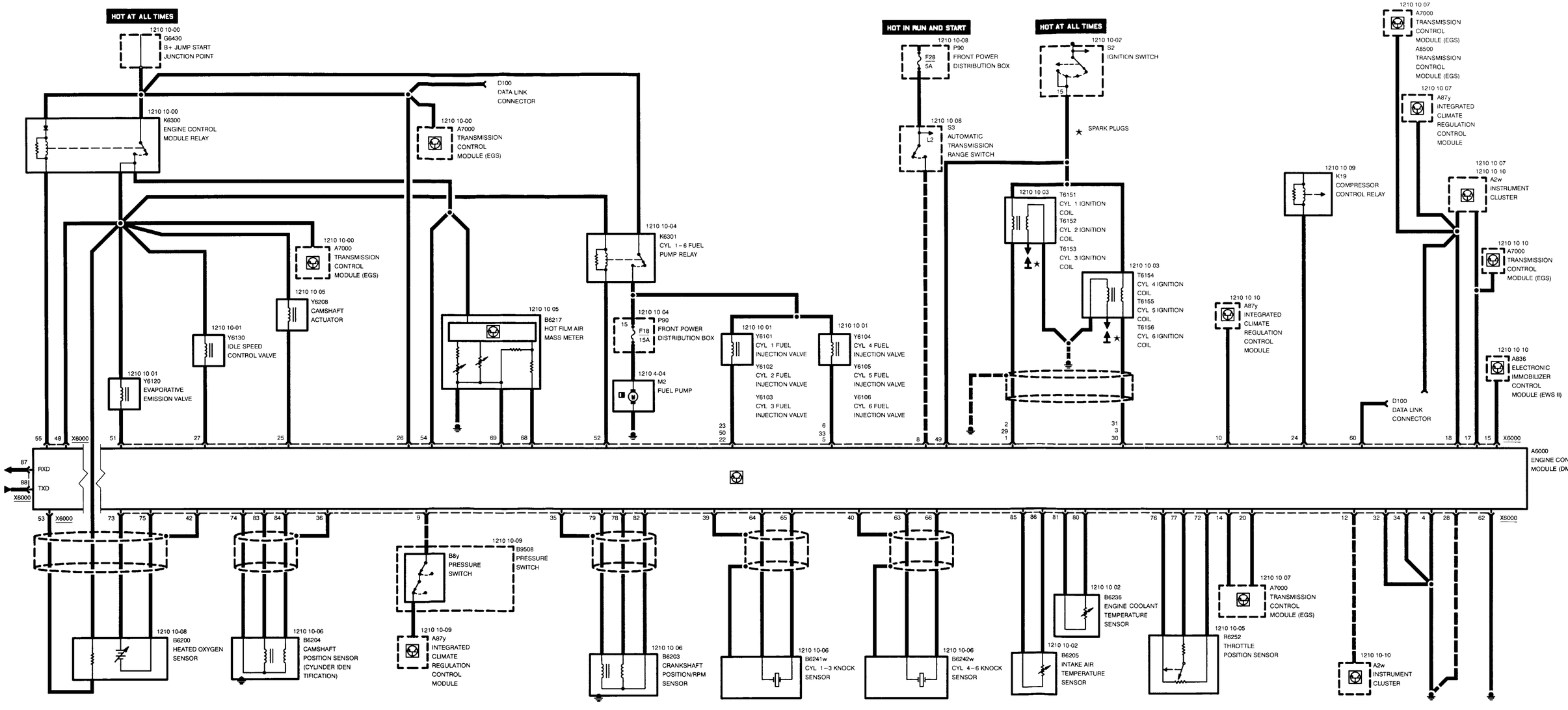


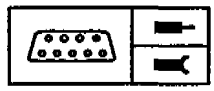
ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)



ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)




HOT AT ALL TIMES
1210 10-00
G6430
B+ JUMP START
JUNCTION POINT
1210 10-00
K6300
ENGINE CONTROL
MODULE RELAY
D100
DATA LINK
CONNECTOR
1210 10-00
A7000
TRANSMISSION
CONTROL
MODULE (EGS)
1210 10-00
A7000
TRANSMISSION
CONTROL
MODULE (EGS)
1210 10 05
Y6208
CAMSHAFT
ACTUATOR
1210 10-01
Y6130
IDLE SPEED
CONTROL VALVE
1210 10 01
Y6120
EVAPORATIVE
EMISSION VALVE
1210 10 05
B6217
HOT FILM AIR
MASS METER
1210 10-04
K6301
CYL 1-6 FUEL
PUMP RELAY
1210 10 04
P90
FRONT POWER
DISTRIBUTION BOX
F18
15A
1210 4-04
M2
FUEL PUMP
HOT IN RUN AND START
1210 10-08
P90
FRONT POWER
DISTRIBUTION BOX
F28
5A
1210 10 08
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L2
1210 10 01
Y6101
CYL 1 FUEL
INJECTION VALVE
Y6102
CYL 2 FUEL
INJECTION VALVE
Y6103
CYL 3 FUEL
INJECTION VALVE
1210 10 01
Y6104
CYL 4 FUEL
INJECTION VALVE
Y6105
CYL 5 FUEL
INJECTION VALVE
Y6106
CYL 6 FUEL
INJECTION VALVE
HOT AT ALL TIMES
1210 10-02
S2
IGNITION SWITCH
SPARK PLUGS
1210 10 03
T6151
CYL 1 IGNITION
COIL
T6152
CYL 2 IGNITION
COIL
T6153
CYL 3 IGNITION
COIL
1210 10 03
T6154
CYL 4 IGNITION
COIL
T6155
CYL 5 IGNITION
COIL
T6156
CYL 6 IGNITION
COIL
1210 10 09
K19
COMPRESSOR
CONTROL RELAY
1210 10 10
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL
MODULE
1210 10 07
A7000
TRANSMISSION
CONTROL
MODULE (EGS)
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
1210 10 07
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL
MODULE
1210 10 07
1210 10 10
A2w
INSTRUMENT
CLUSTER
1210 10 10
A7000
TRANSMISSION
CONTROL
MODULE (EGS)
1210 10 10
A836
ELECTRONIC
IMMOBILIZER
CONTROL
MODULE (EWS II)
D100
DATA LINK
CONNECTOR
55 48 X6000 51 27 25 26 54 69 68 52 23 50 22 6 33 5 8 49 2 29 1 31 3 30 10 24 60 18 17 15 X6000
87 RXD
88 TXD
X6000
A6000
ENGINE CONTROL
MODULE (DME)
53 X6000 73 75 42 74 83 84 36 9 35 79 78 82 39 64 65 40 63 66 85 86 81 80 76 77 72 14 20 12 32 34 4 28 62 X6000
1210 10-08
B6200
HEATED OXYGEN
SENSOR
1210 10-06
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER IDEN
TIFICATION)
1210 10-09
B8y
PRESSURE
SWITCH
1210 10-09
B9508
PRESSURE
SWITCH
1210 10-09
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL
MODULE
1210 10 06
B6203
CRANKSHAFT
POSITION/RPM
SENSOR
1210 10-06
B6241w
CYL 1-3 KNOCK
SENSOR
1210 10-06
B6242w
CYL 4-6 KNOCK
SENSOR
1210 10 02
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
1210 10-02
B6205
INTAKE AIR
TEMPERATURE
SENSOR
1210 10 07
A7000
TRANSMISSION
CONTROL
MODULE (EGS)
1210 10-05
R6252
THROTTLE
POSITION SENSOR
1210 10-10
A2w
INSTRUMENT
CLUSTER



Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
2	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
3	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
4	M	Ground	Ground
5	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
6	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
7		Not used	
8	E	Drive range P/N	Automatic transmission range switch
9	A	A/C signal	Pressure switch
10	A	Auxiliary ventilation signal	Integrated climate regulation control module
11		Not used	
12	E	Vehicle speed signal	Instrument cluster
13		Not used	
14	A	Throttle valve position	Transmission control module (EGS)
15	E	Drive-away protection signal	Starter interlock module
16		Not used	
17	A	TI-measurement signal (fuel consumption)	Instrument cluster
18	A	Crankshaft RPM speed signal TD	Instrument cluster
19		Not used	
20	E	Ignition timing intervention	Transmission control module (EGS)
21		Not used	
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
24	A	A/C compressor control	Compressor control relay
25	A	Camshaft control signal	Camshaft control
26	E	Battery voltage	Jump start junction point
27	A	Idle speed signal	Idle speed control valve
28	M	Ground	Ground
29	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil

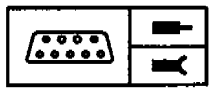
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
30	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
31	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
32	M	Ground	Ground
33	A	Cyl. 5 fuel injection valve control	Cyl.5 fuel injection valve
34	M	Ground	Ground
35	M	Shield, crankshaft position/RPM sensor	Shield
36	M	Shield, camshaft sensor	Shield
37		Not used	
38		Not used	
39	M	Shield, knock sensor (Cyl. 1-3)	Knock sensor (Cyl. 1-3)
40	M	Shield, knock sensor (Cyl. 4-6)	Knock sensor(Cyl. 4-6)
41		Not used	
42	M	Shield, oxygen sensor	Shield
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48	E	Voltage supply	Engine control module relay
49	E	Ignition signal	Ignition switch
50	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
51	A	Evaporative emission valve control	Evaporative emission valve
52	A	Fuel pump signal	Fuel pump relay
53	M	Ground, oxygen sensor	Oxygen sensor
54	E	Voltage supply	Engine control module relay
55	A	DME-relay signal	Engine control module relay
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

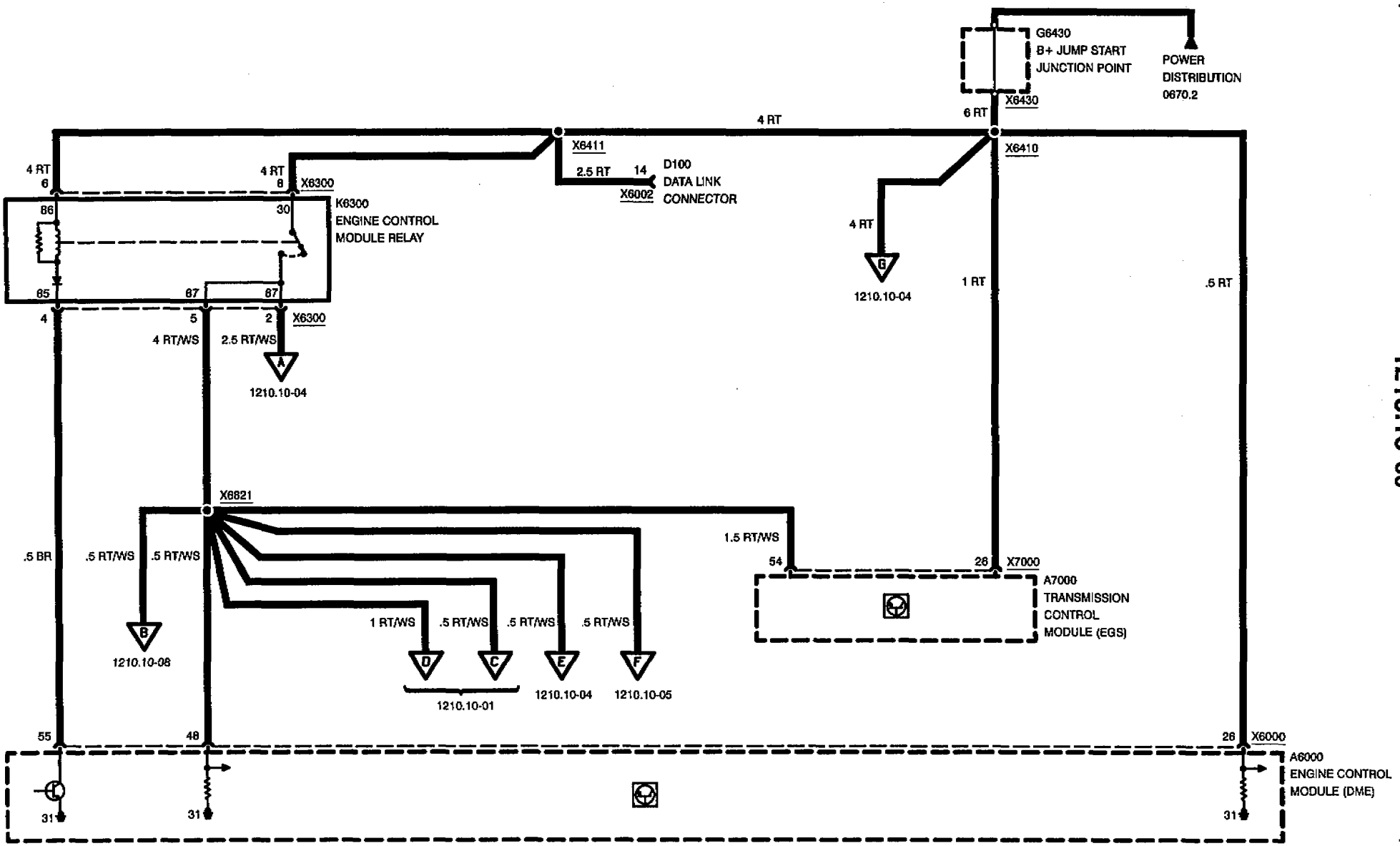
Pin	Type	Description/Function	Connection
62	M	Ground	Ground
63	E	Knock sensor signal (−)	Knock sensor (Cyl. 4-6)
64	E	Knock sensor signal (−)	Knock sensor (Cyl. 1-3)
65	A	Knock sensor signal (+)	Knock sensor (Cyl. 1-3)
66	A	Knock sensor signal (+)	Knock sensor (Cyl. 4-6)
67		Not used	
68	M	Ground, air mass meter	Hot film air mass meter
69	E	Air mass meter signal	Hot film air mass meter
70		Not used	
71		Not used	
72	A	Voltage supply	Throttle position sensor
73	E	Oxygen sensor signal	Oxygen sensor
74	M	Ground, hall effect camshaft sensor	Hall effect camshaft sensor
75	M	Ground, oxygen sensor	Oxygen sensor
76	M	Ground, throttle position sensor	Throttle position sensor
77	E	Throttle position signal	Throttle position sensor
78	E	Crankshaft position/RPM signal (−)	Crankshaft position/RPM sensor
79	A	Crankshaft position/RPM signal (+)	Crankshaft position/RPM sensor
80	E	Engine coolant temperature	Engine coolant temperature sensor
81	A	Engine coolant temperature	Engine coolant temperature sensor
82	M	Ground, crankshaft position/RPM sensor	Crankshaft position/RPM sensor
83	E	Camshaft signal (−)	Hall effect camshaft sensor
84	A	Camshaft signal (+)	Hall effect camshaft sensor
85	E	Engine intake air temperature	Engine intake air temperature sensor
86	M	Ground, engine intake air temperature sensor	Engine intake air temperature sensor
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)

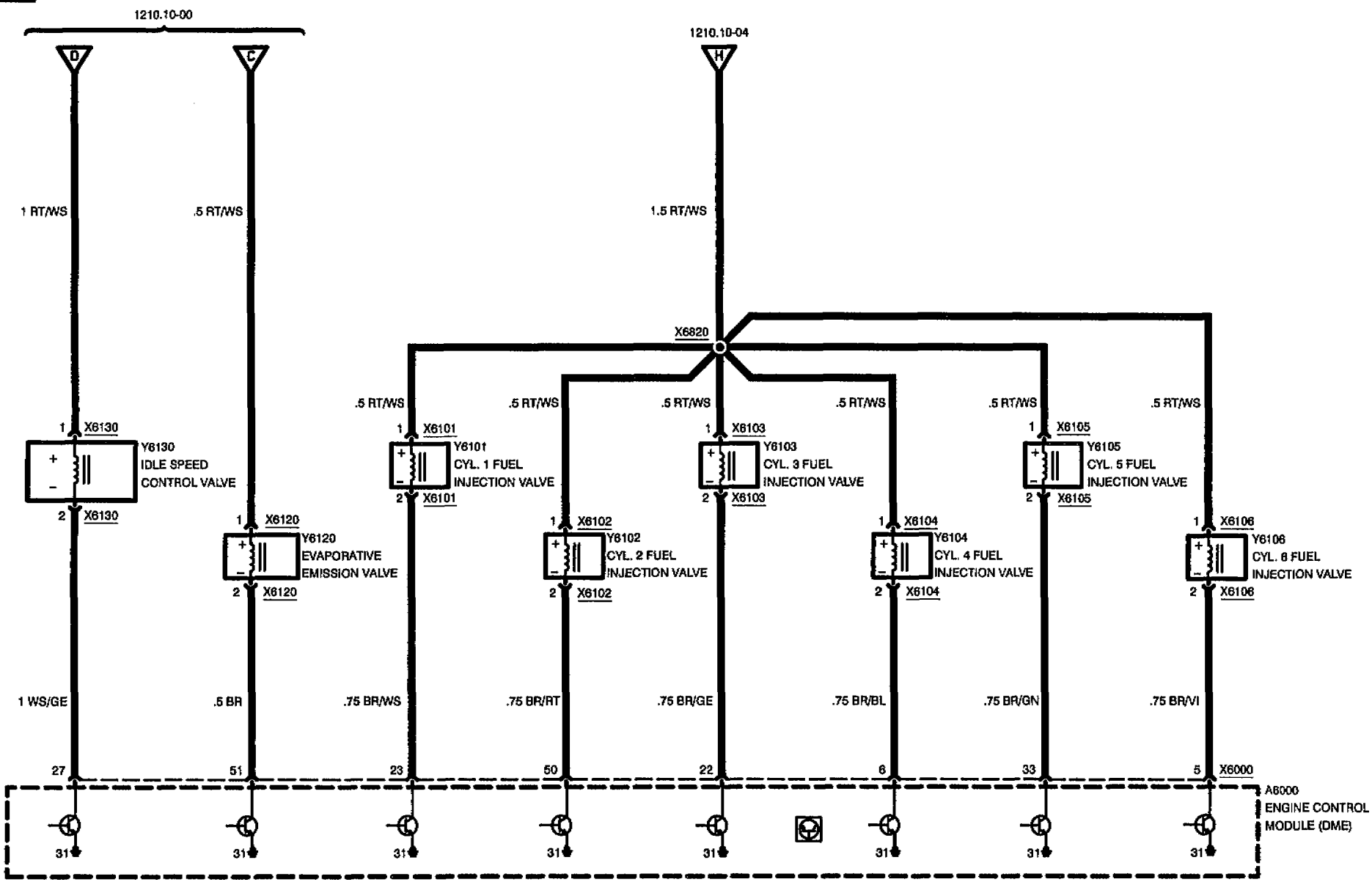
CDN

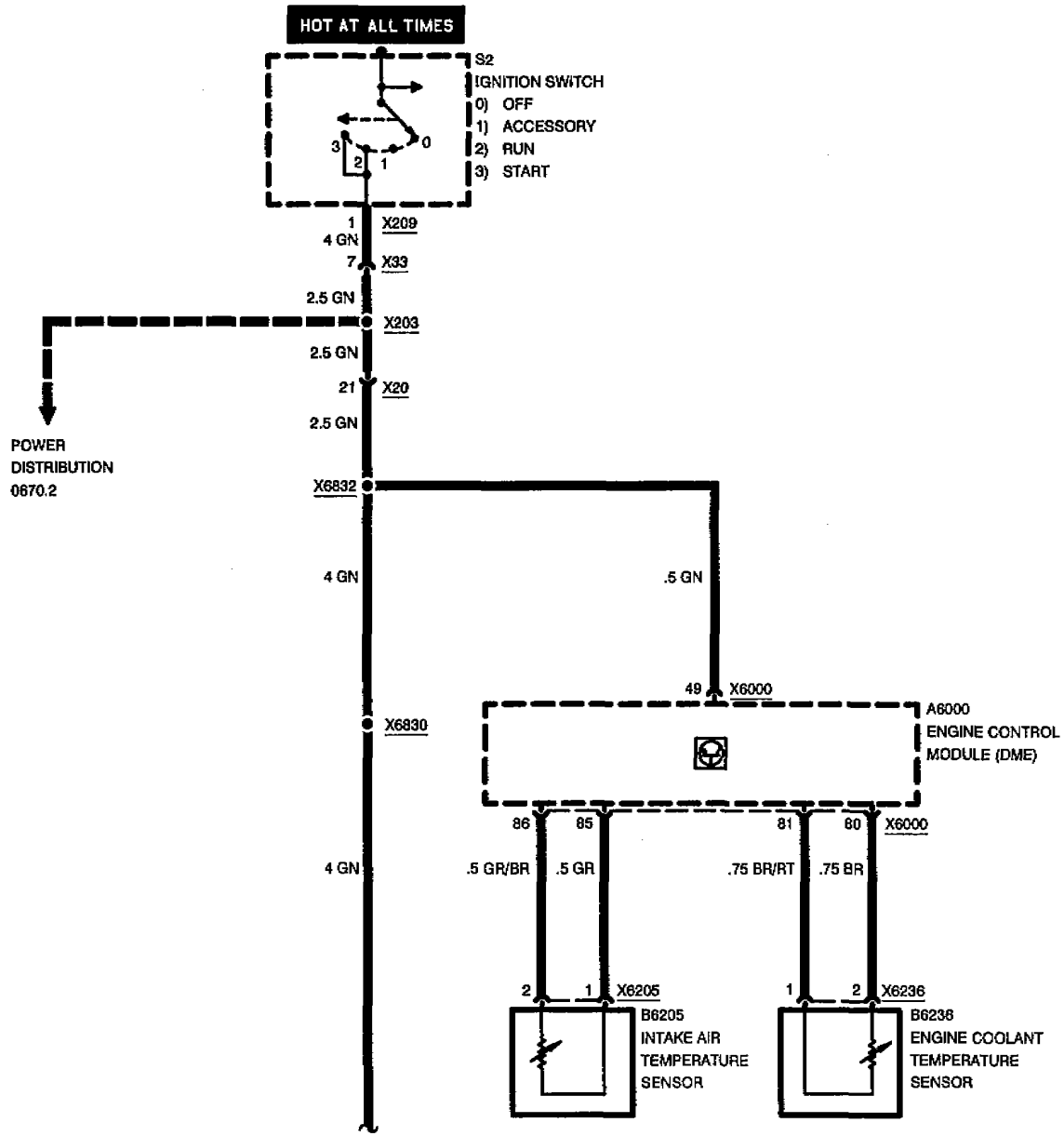
POWER

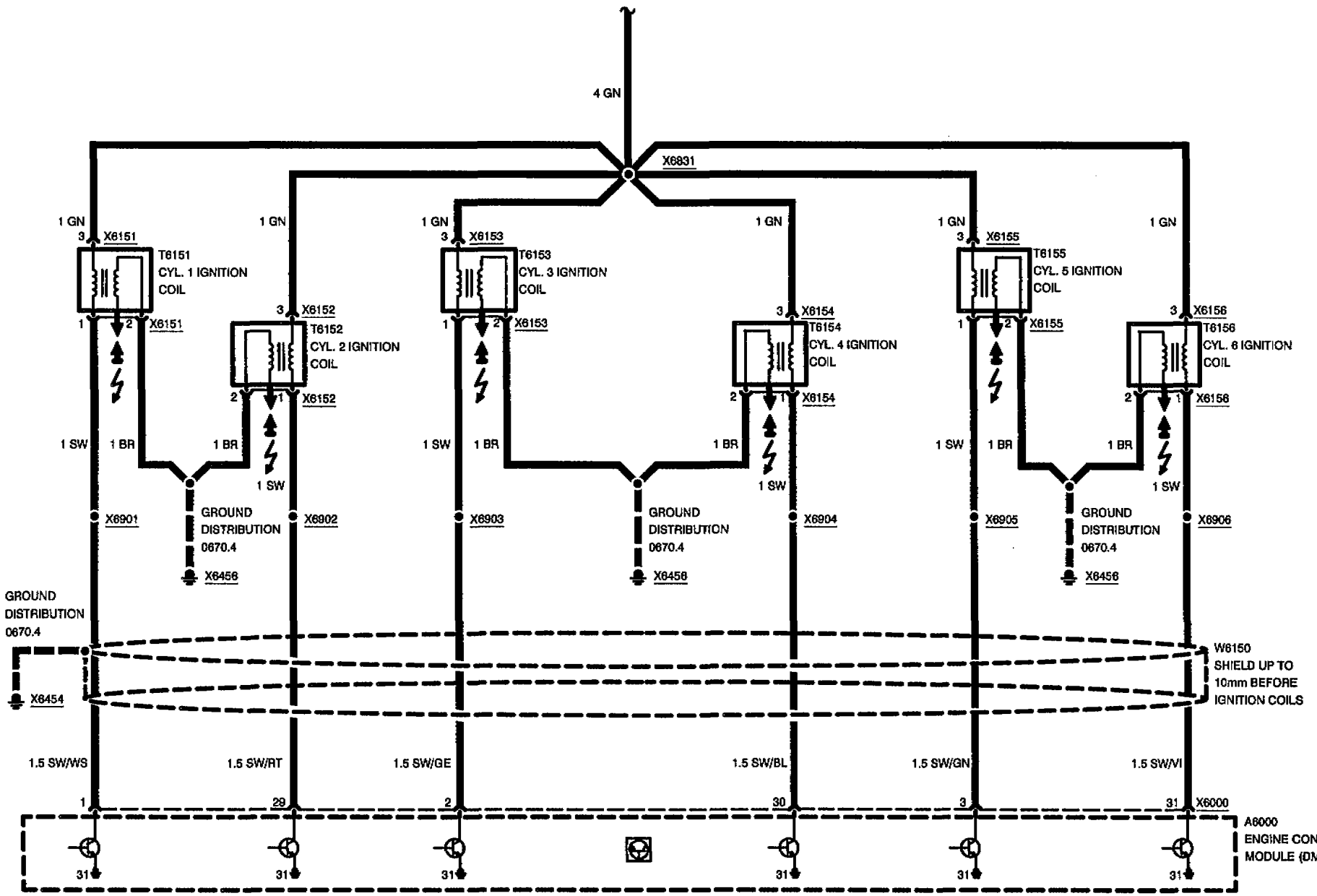


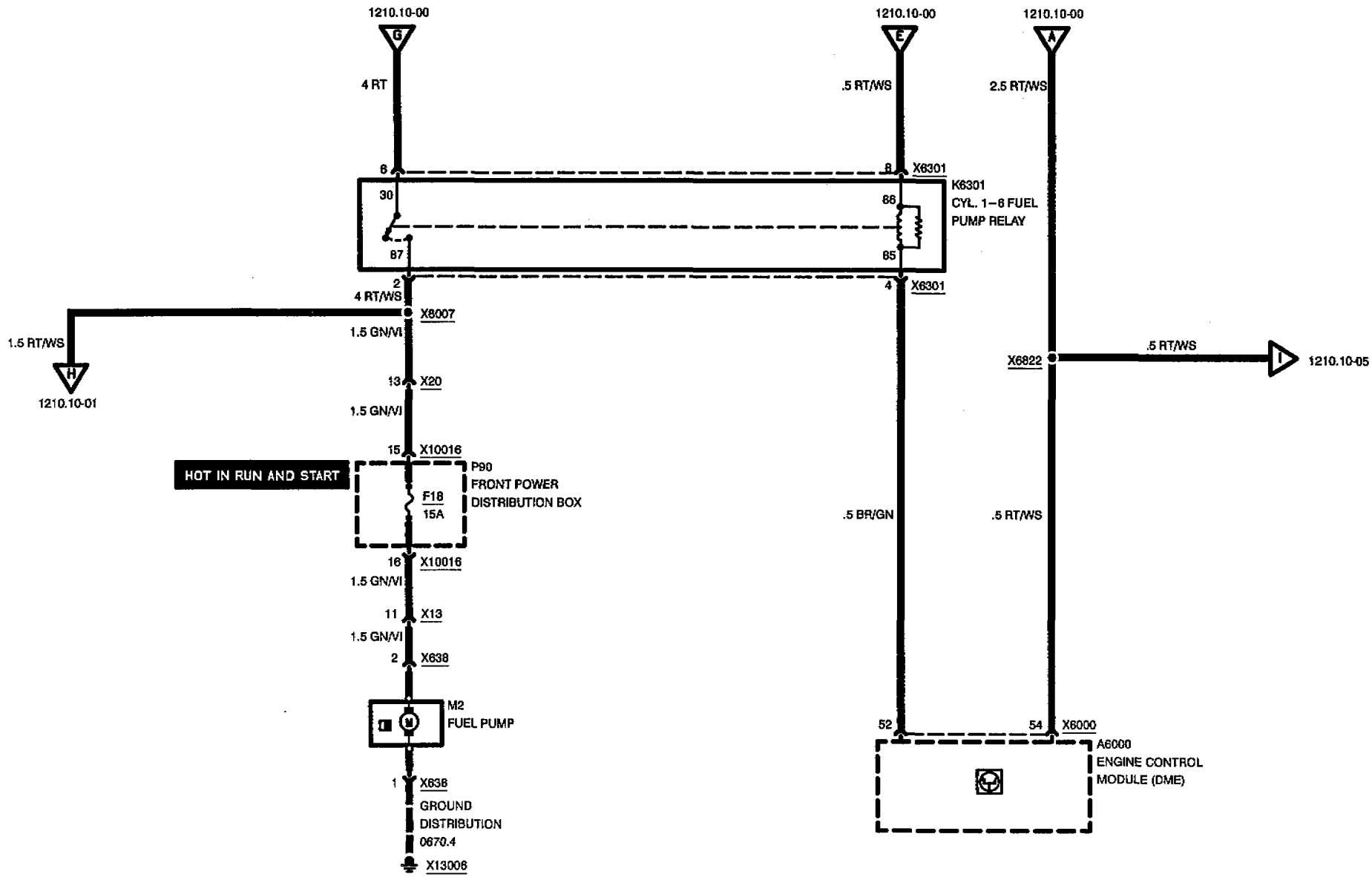
ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)

CDN



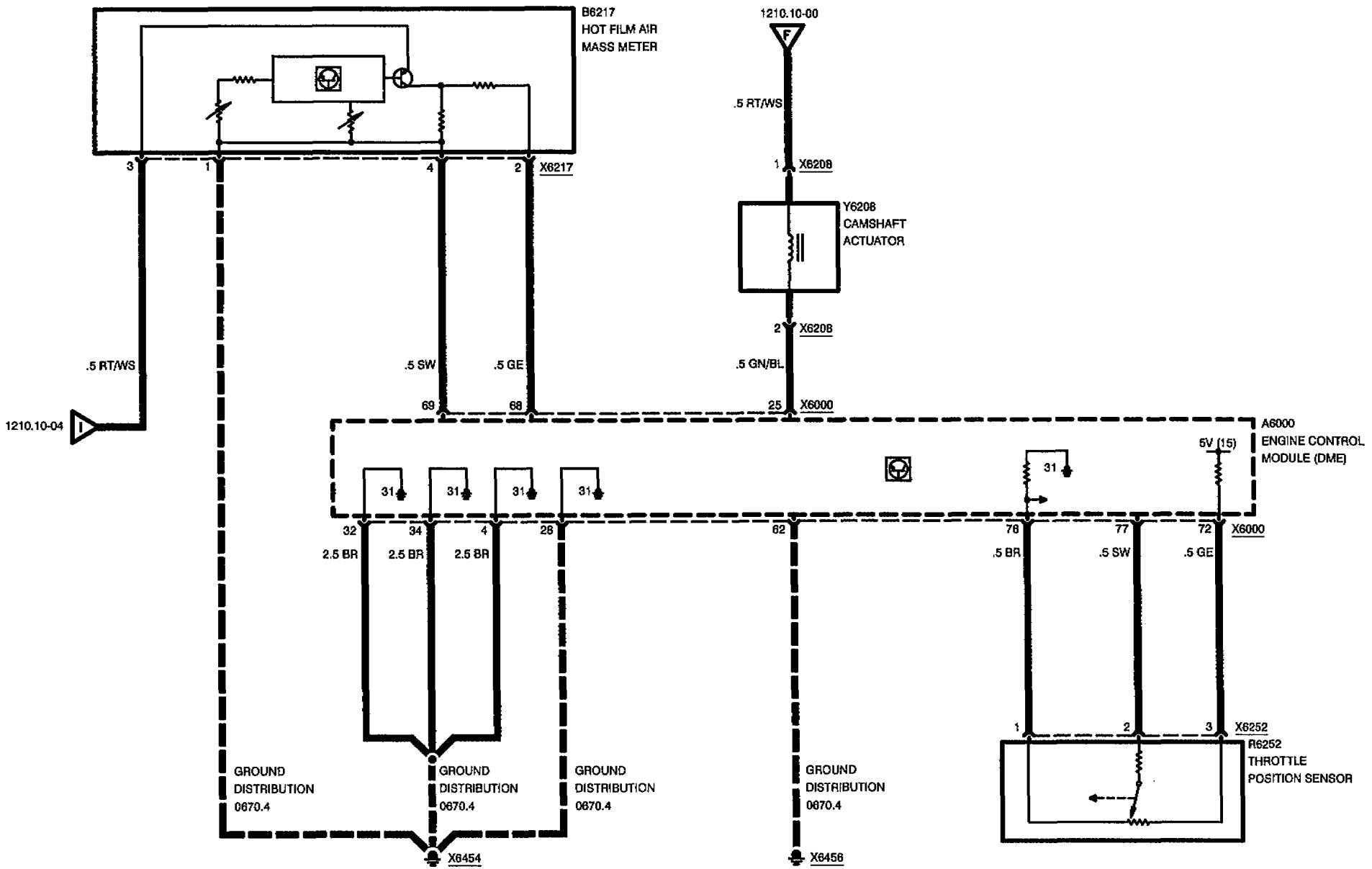

HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
1
4 GN
X209
7
X33
2.5 GN
X203
2.5 GN
21
X20
2.5 GN
POWER
DISTRIBUTION
0670.2
X6832
4 GN
.5 GN
49
X6000
A6000
ENGINE CONTROL
MODULE (DME)
X6830
86
85
81
80
X6000
4 GN
.5 GR/BR
.5 GR
.75 BR/RT
.75 BR
2
1
X6205
B6205
INTAKE AIR
TEMPERATURE
SENSOR
1
2
X6236
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR

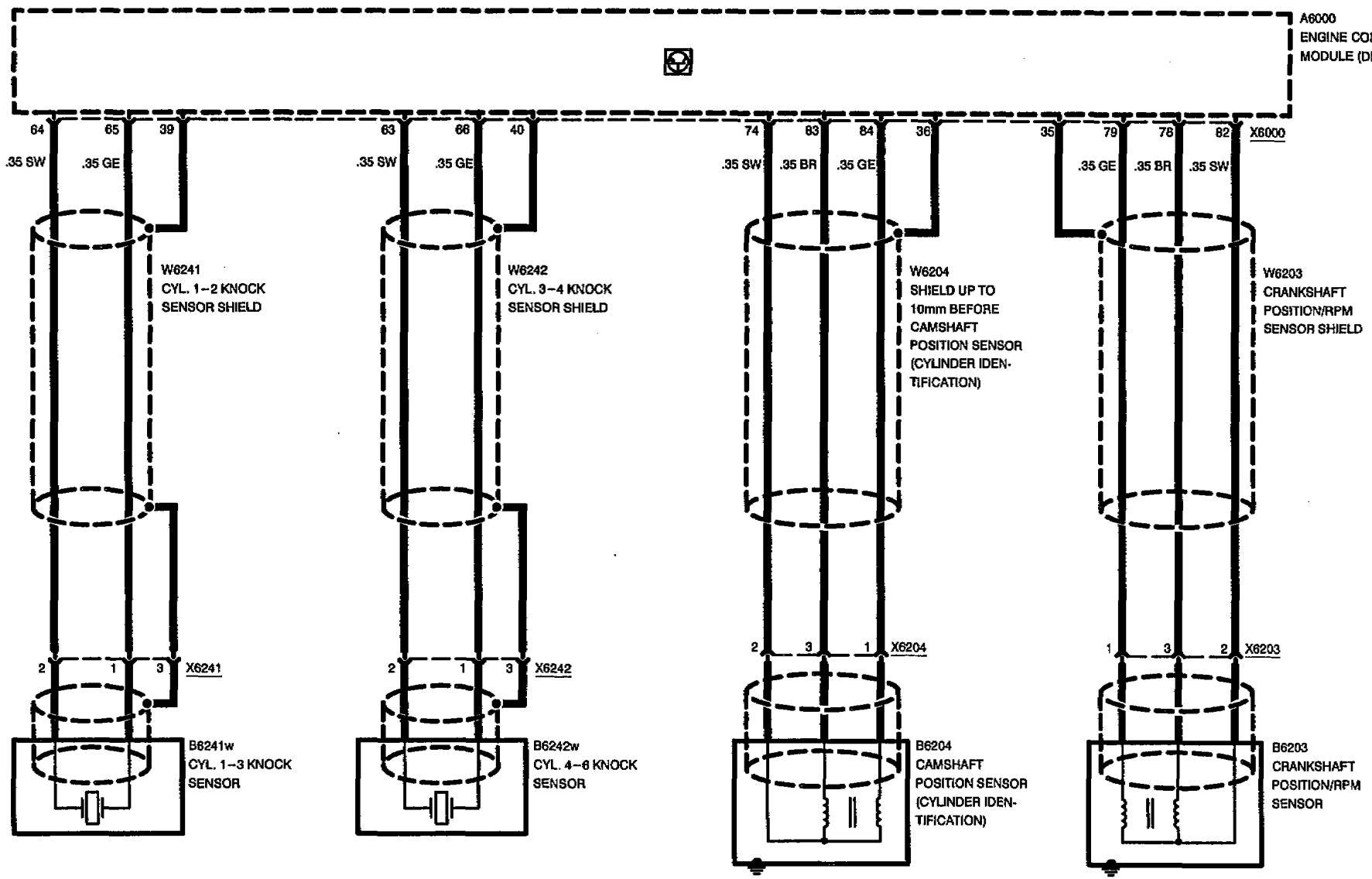

4 GN
X6831
1 GN
X6151
T6151
CYL. 1 IGNITION COIL
X6151
1 SW
1 BR
X6901
GROUND DISTRIBUTION 0670.4
X6456
X6152
T6152
CYL. 2 IGNITION COIL
X6152
1 BR
1 SW
X6902
X6153
T6153
CYL. 3 IGNITION COIL
X6153
1 SW
1 BR
X6903
GROUND DISTRIBUTION 0670.4
X6456
X6154
T6154
CYL. 4 IGNITION COIL
X6154
1 BR
1 SW
X6904
X6155
T6155
CYL. 5 IGNITION COIL
X6155
1 SW
1 BR
X6905
GROUND DISTRIBUTION 0670.4
X6456
X6156
T6156
CYL. 6 IGNITION COIL
X6156
1 BR
1 SW
X6906
GROUND DISTRIBUTION 0670.4
X6454
W6150
SHIELD UP TO 10mm BEFORE IGNITION COILS
1.5 SW/WS
1.5 SW/RT
1.5 SW/GE
1.5 SW/BL
1.5 SW/GN
1.5 SW/VI
1
29
2
30
3
31
X6000
A6000
ENGINE CONTROL MODULE (DME)
31


1210.10-00
G
4 RT
6
30
87
2
4 RT/WS
X8007
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F18
15A
16
X10016
1.5 GN/VI
11
X13
1.5 GN/VI
2
X638
M2
FUEL PUMP
1
X638
GROUND
DISTRIBUTION
0670.4
X13006
1.5 RT/WS
H
1210.10-01
1210.10-00
E
.5 RT/WS
8
X6301
86
85
4
X6301
K6301
CYL. 1–6 FUEL
PUMP RELAY
.5 BR/GN
52
1210.10-00
A
2.5 RT/WS
X6822
.5 RT/WS
1210.10-05
.5 RT/WS
54
X6000
A6000
ENGINE CONTROL
MODULE (DME)

ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)

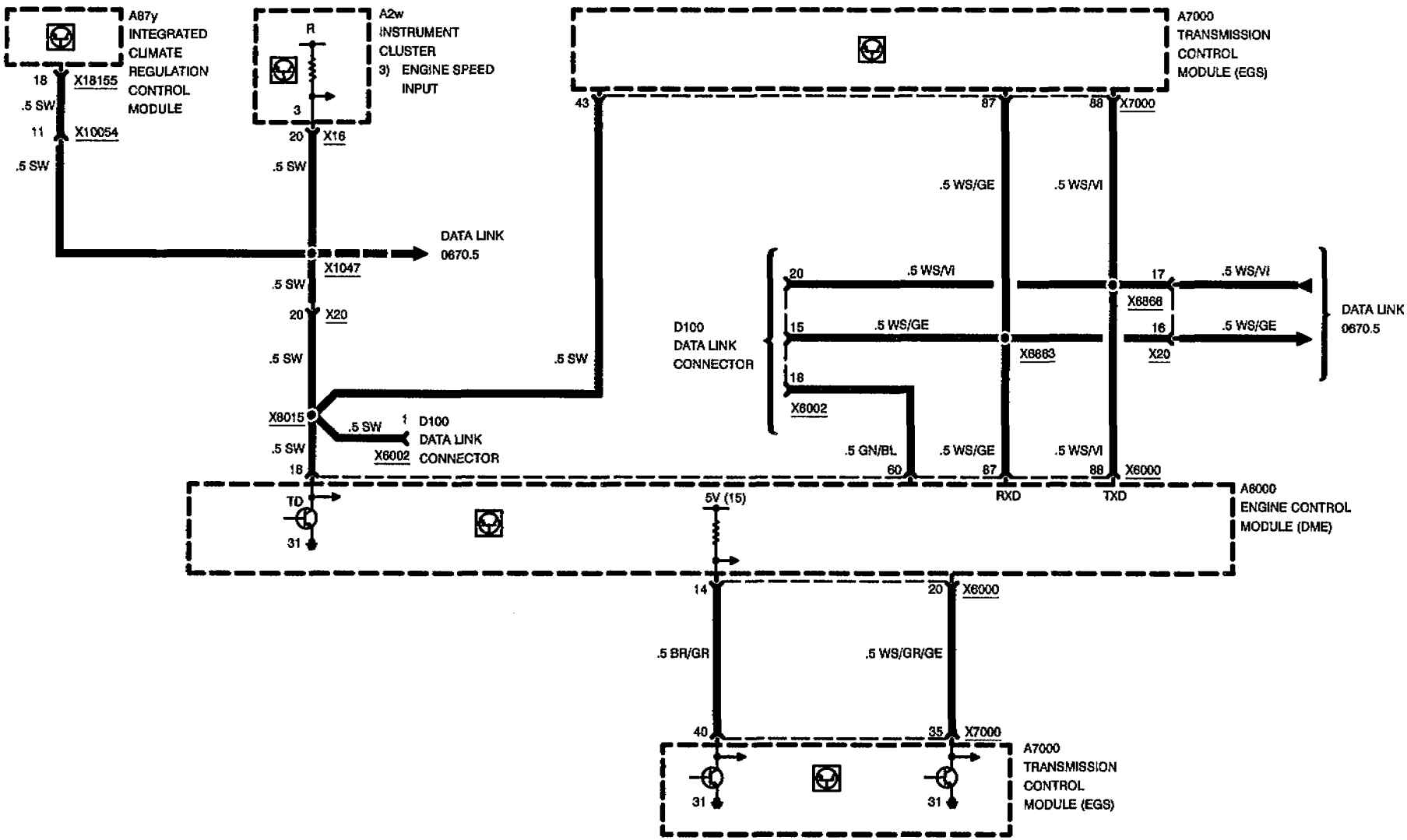
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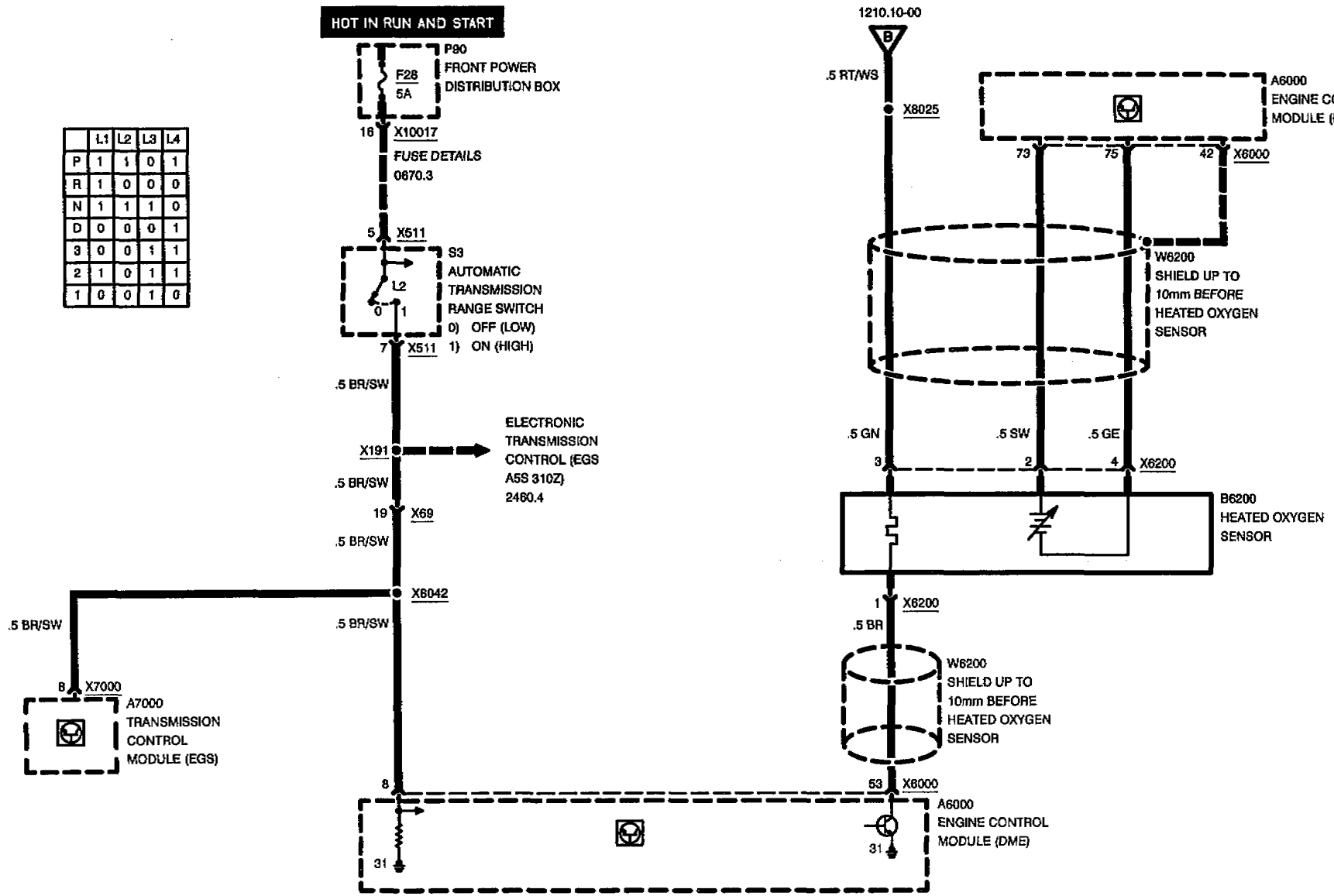



A6000
ENGINE CONTROL
MODULE (DME)
64
65
39
.35 SW
.35 GE
W6241
CYL. 1–2 KNOCK
SENSOR SHIELD
2
1
3
X6241
B6241w
CYL. 1–3 KNOCK
SENSOR
63
66
40
.35 SW
.35 GE
W6242
CYL. 3–4 KNOCK
SENSOR SHIELD
2
1
3
X6242
B6242w
CYL. 4–6 KNOCK
SENSOR
74
83
84
36
.35 SW
.35 BR
.35 GE
W6204
SHIELD UP TO
10mm BEFORE
CAMSHAFT
POSITION SENSOR
(CYLINDER IDEN-
TIFICATION)
2
3
1
X6204
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER IDEN-
TIFICATION)
35
79
78
82
X6000
.35 GE
.35 BR
.35 SW
W6203
CRANKSHAFT
POSITION/RPM
SENSOR SHIELD
1
3
2
X6203
B6203
CRANKSHAFT
POSITION/RPM
SENSOR

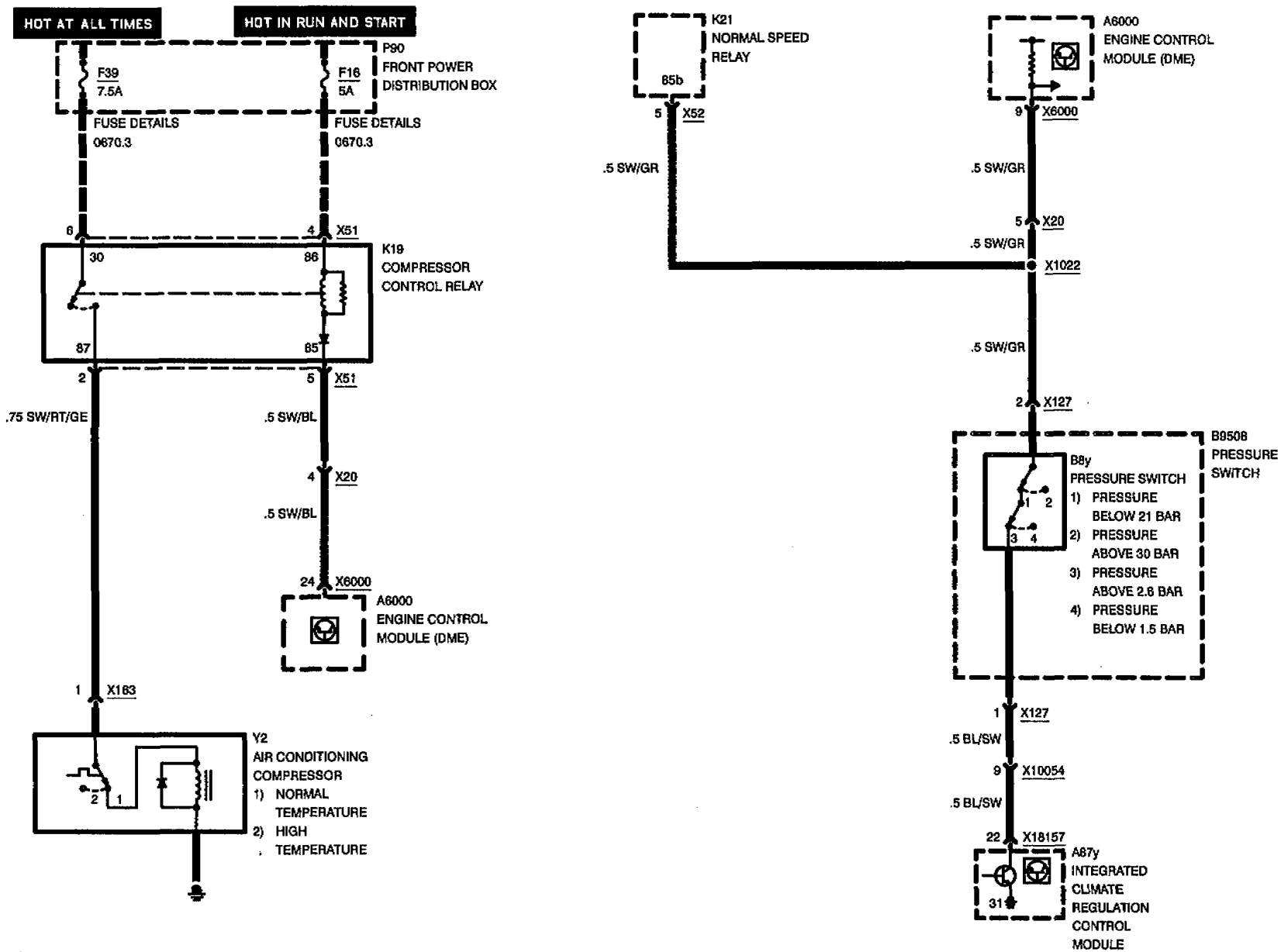
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

CDN

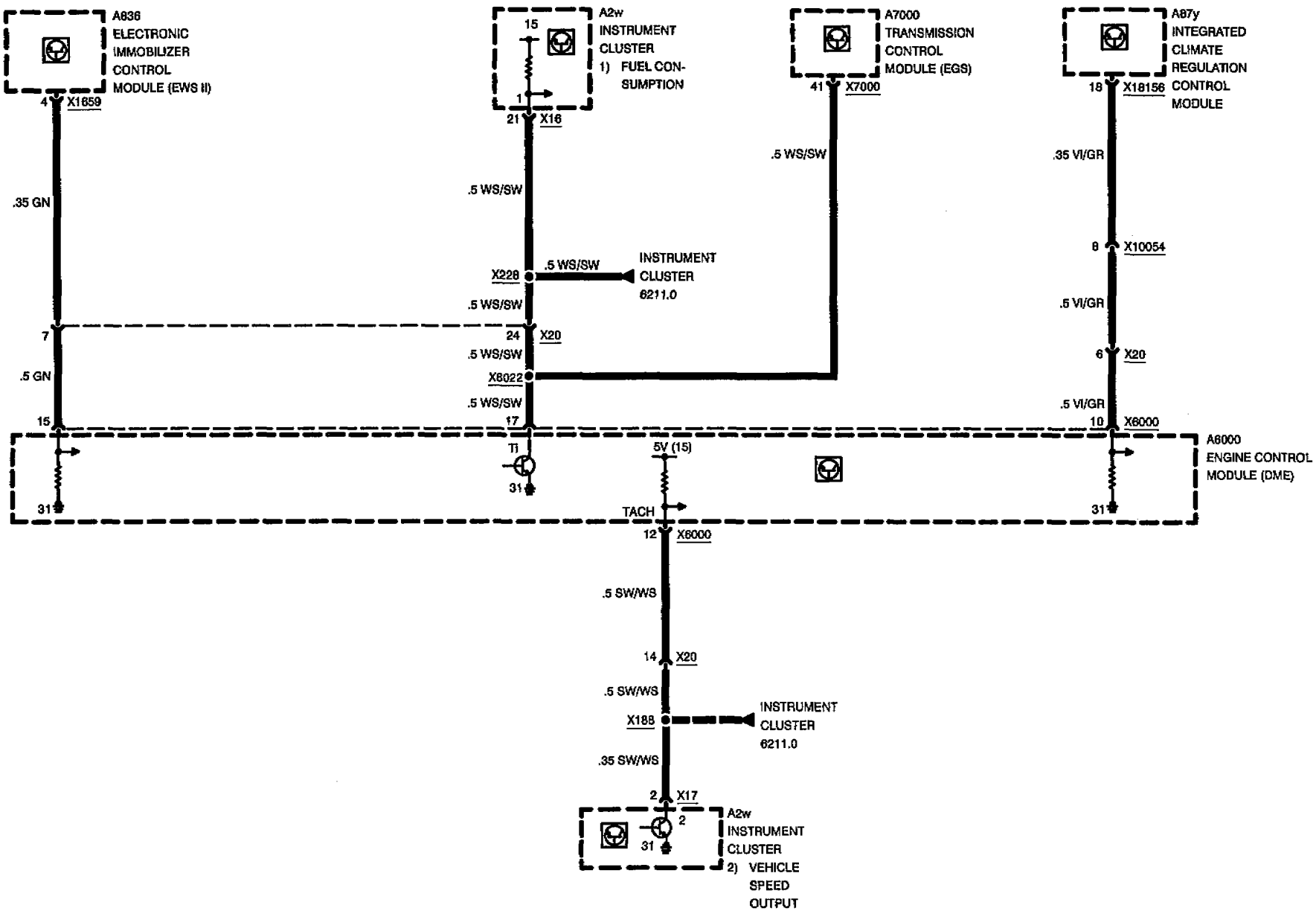



HOT IN RUN AND START
P90
FRONT POWER DISTRIBUTION BOX
F28
5A
18 X10017
FUSE DETAILS
0670.3
5 X511
S3
AUTOMATIC TRANSMISSION RANGE SWITCH
0) OFF (LOW)
1) ON (HIGH)
7 X511
.5 BR/SW
X191
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)
2460.4
.5 BR/SW
19 X69
.5 BR/SW
X8042
.5 BR/SW
.5 BR/SW
8 X7000
A7000
TRANSMISSION CONTROL MODULE (EGS)
8
31
53 X6000
A6000
ENGINE CONTROL MODULE (DME)
31
1210.10-00
B
.5 RT/WS
X8025
A6000
ENGINE CONTROL MODULE (DME)
73
75
42 X6000
W6200
SHIELD UP TO 10mm BEFORE HEATED OXYGEN SENSOR
.5 GN
.5 SW
.5 GE
3
2
4 X6200
B6200
HEATED OXYGEN SENSOR
1 X6200
.5 BR
W6200
SHIELD UP TO 10mm BEFORE HEATED OXYGEN SENSOR
L1 L2 L3 L4
P 1 1 0 1
R 1 0 0 0
N 1 1 1 0
D 0 0 0 1
3 0 0 1 1
2 1 0 1 1
1 0 0 1 0

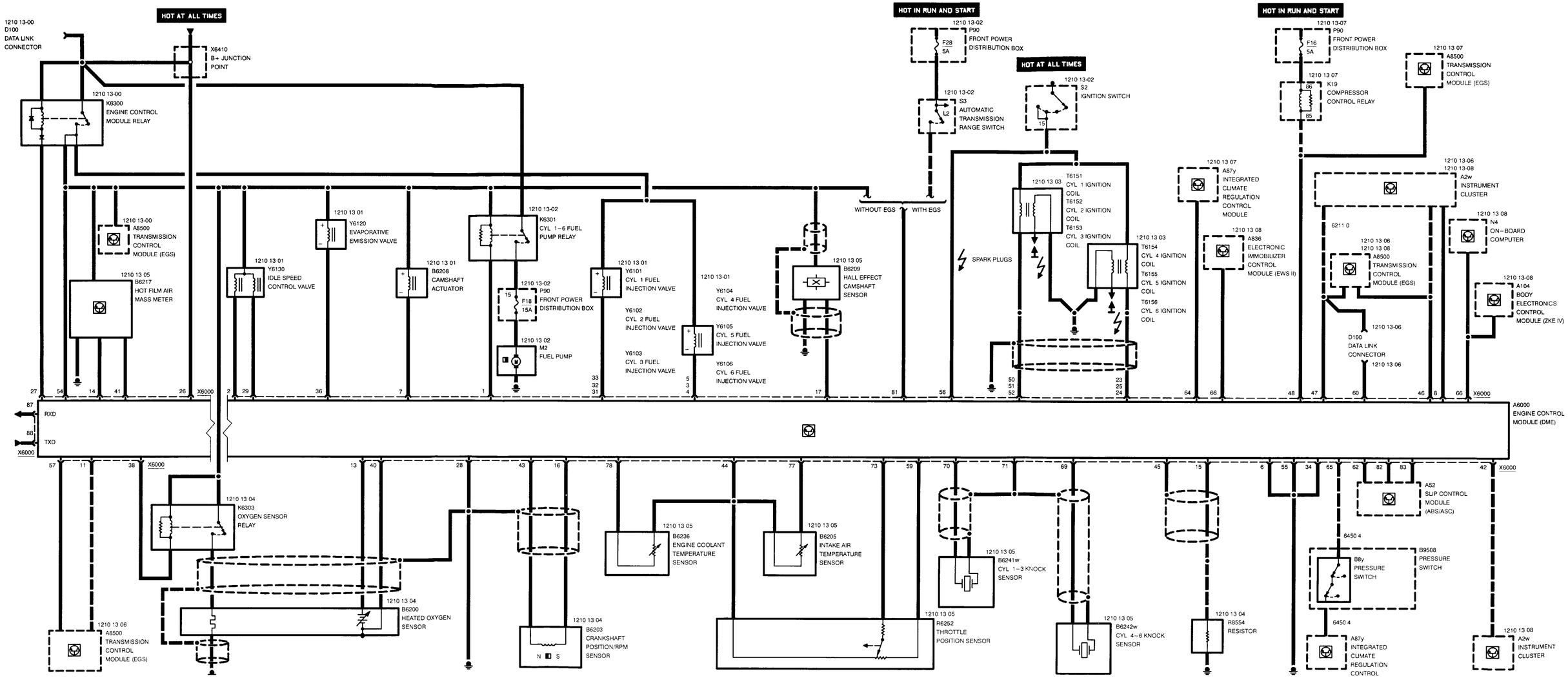
ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)

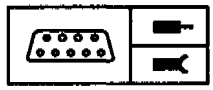


ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)



04/97 1210 13 1996
04/97 1210.13 1996



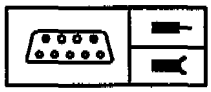


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay, terminal 85
2	A	Idle speed control valve - close winding control	Idle speed control valve
3	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
4	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
5	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
6	M	Ground, fuel injection valve output stages	Ground point
7	A	Camshaft actuator control	Camshaft actuator
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11	A	Throttle valve position	Transmission control module (EGS)
12		Not used	
13	E	Oxygen sensor signal	Heated oxygen sensor
14	A	Hot wire air mass meter	Hot wire air mass meter
15	M	Ground	Ground point
16	E	Crankshaft position/RPM sensor signal (+)	Crankshaft position/RPM sensor
17	E	Camshaft position sensor	Hall effect camshaft sensor
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
25	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point
29	A	Idle speed control valve - opening winding control	Idle speed control valve

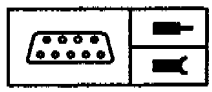
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
30		Not used	
31	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
32	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
33	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
34	M	Ground remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37		Not used	
38	A	Oxygen sensor heater control	Oxygen sensor relay, terminal 85
39		Not used	
40	M	Oxygen sensor signal ground	Heated oxygen sensor
41	E	Hot wire air mass meter	Hot wire air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	E	Crankshaft position/RPM sensor signal (−)	Crankshaft position/RPM sensor
44	M	Ground for sensors	Engine intake air temperature sensor, engine coolant temperature sensor, and throttle position sensor
45	M	Ground for shield	Shield
46	A	Ti measurement signal (fuel consumption)	Instrument cluster
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	A	A/C compressor control	Compresor control relay, terminal 85
49		Not used	
50	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
51	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
52	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87a
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch
57	E	Ignition timing intervention	Transmission control module (EGS)
58		Not used	
59	A	5V component supply	Throttle position sensor

E = Input, A = Output, M = Ground



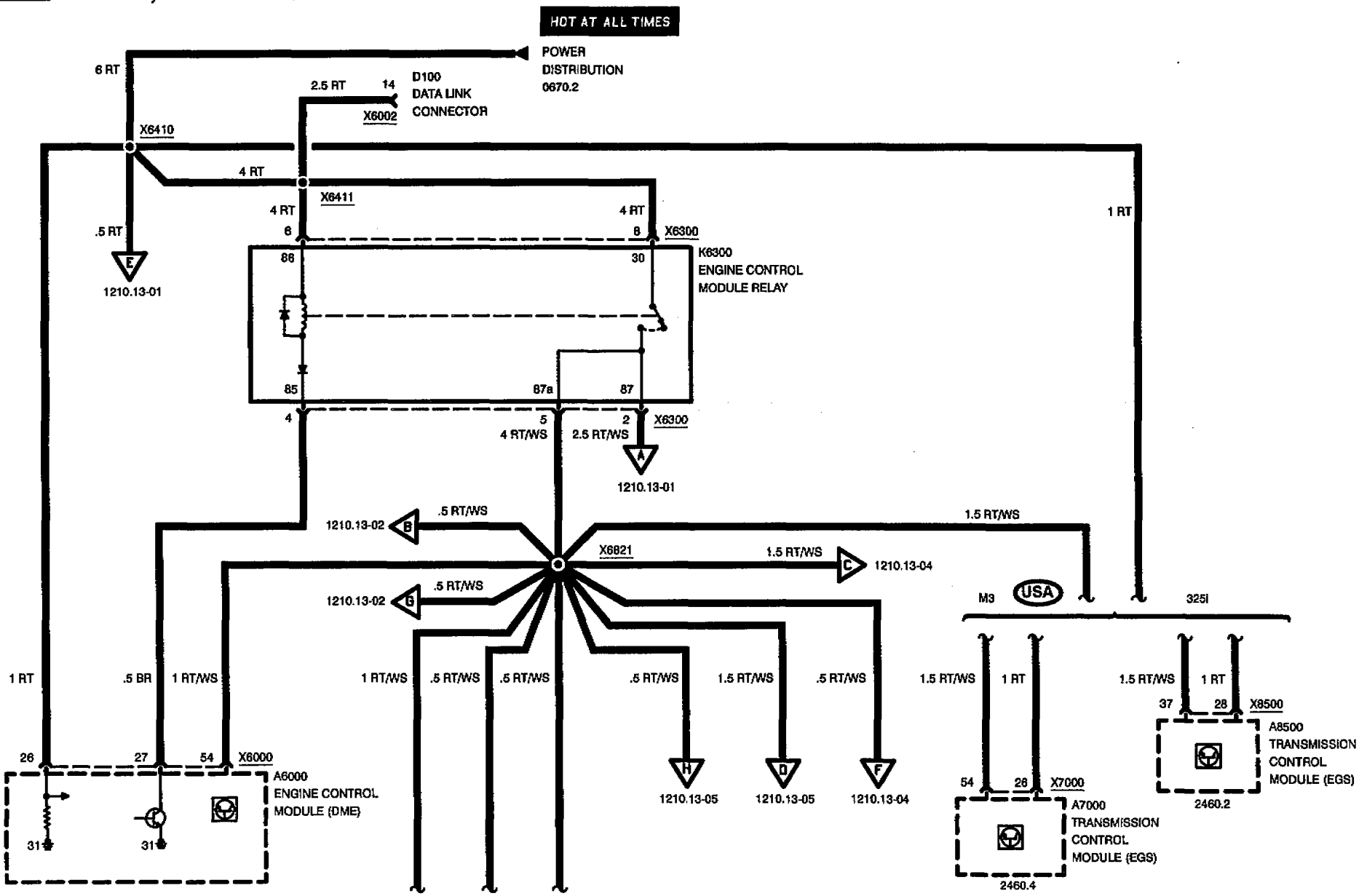
Pin Assignments

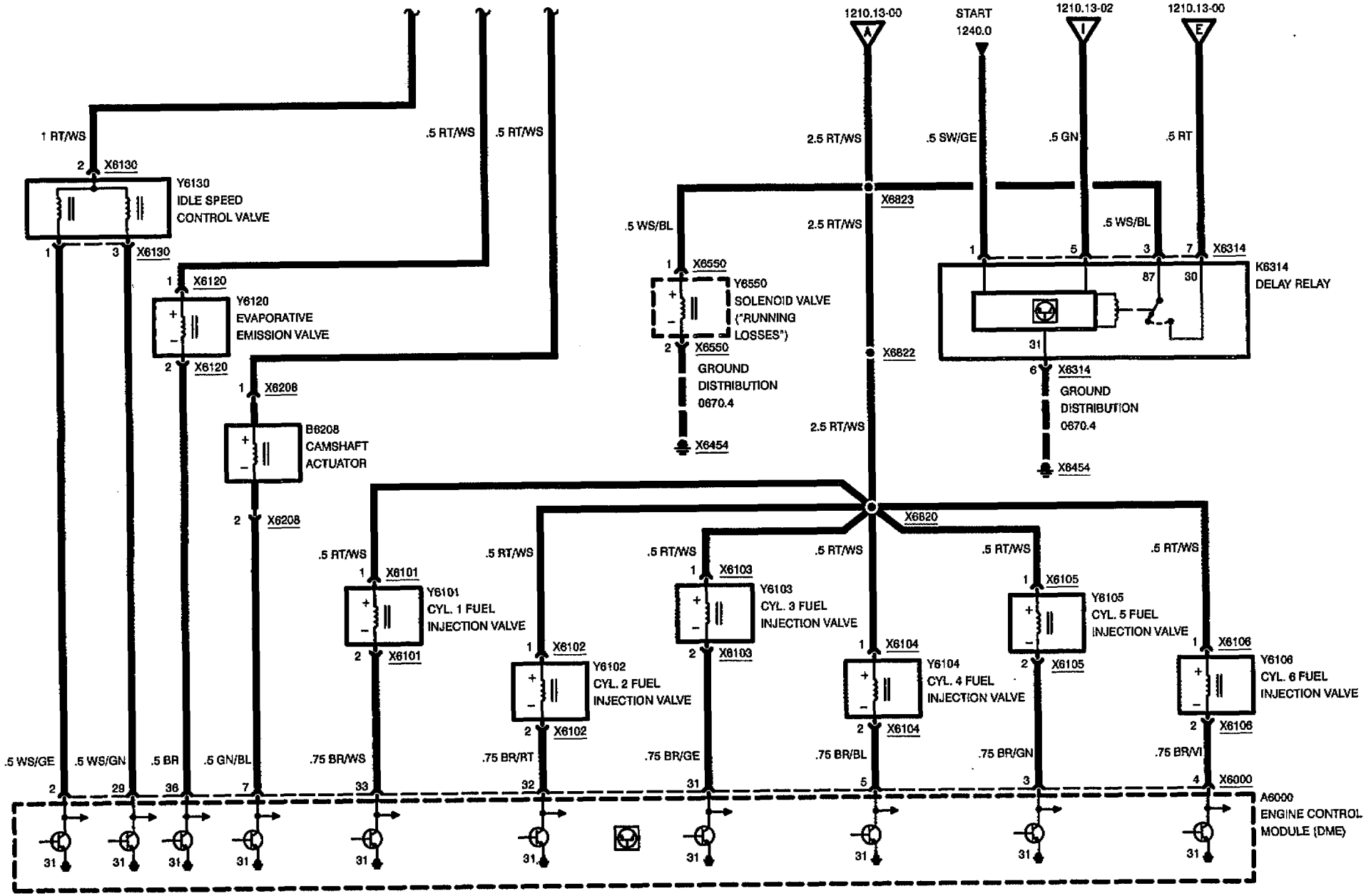
Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61		Not used	
62	E	EML-signal	ABS/ASC control module
63		Not used	
64	E	A/C switch	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch
66	E	Drive-away protection signal (code)	Electronic immobilizer control module (EWS II)
67		Not used	
68		Not used	
69	E	Cyl. 4-6 knock sensor	Cyl. 4-6 knock sensor
70	E	Cyl. 1-3 knock sensor	Cyl. 1-3 knock sensor
71	M	Ground for knock sensors and shields	Cyl. 1-3 knock sensor, cyl. 4-6 knock sensor, and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81	E	Drive range P/N	Automatic transmission range switch
82	E	Throttle flap position	ABS/ASC control module
83	A	Ignition cut-off signal	ABS/ASC control module
84		Not used	
85		Not used	
86		Not used	
87	E	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

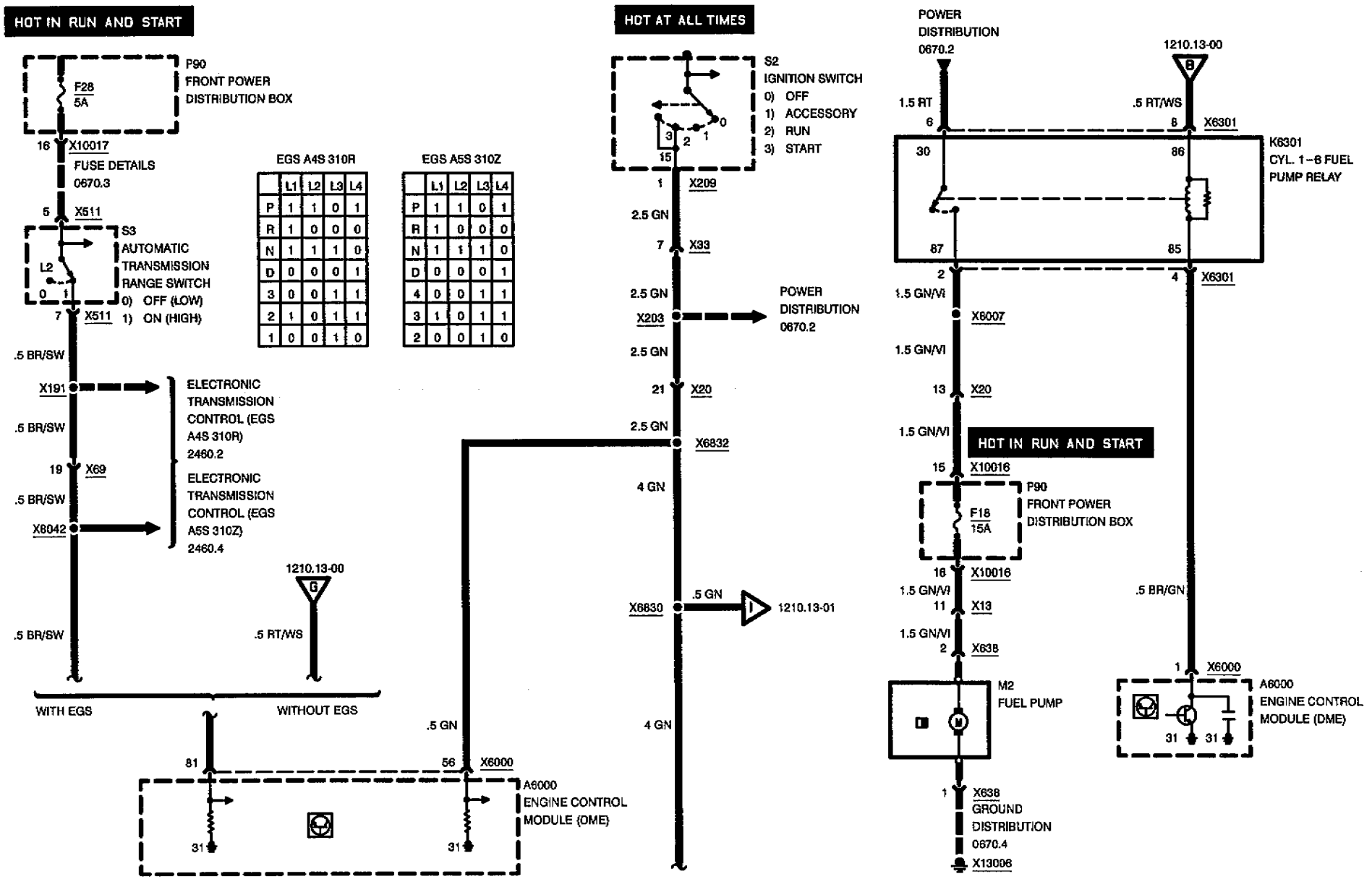
POWER, FUEL INJECTION VALVES

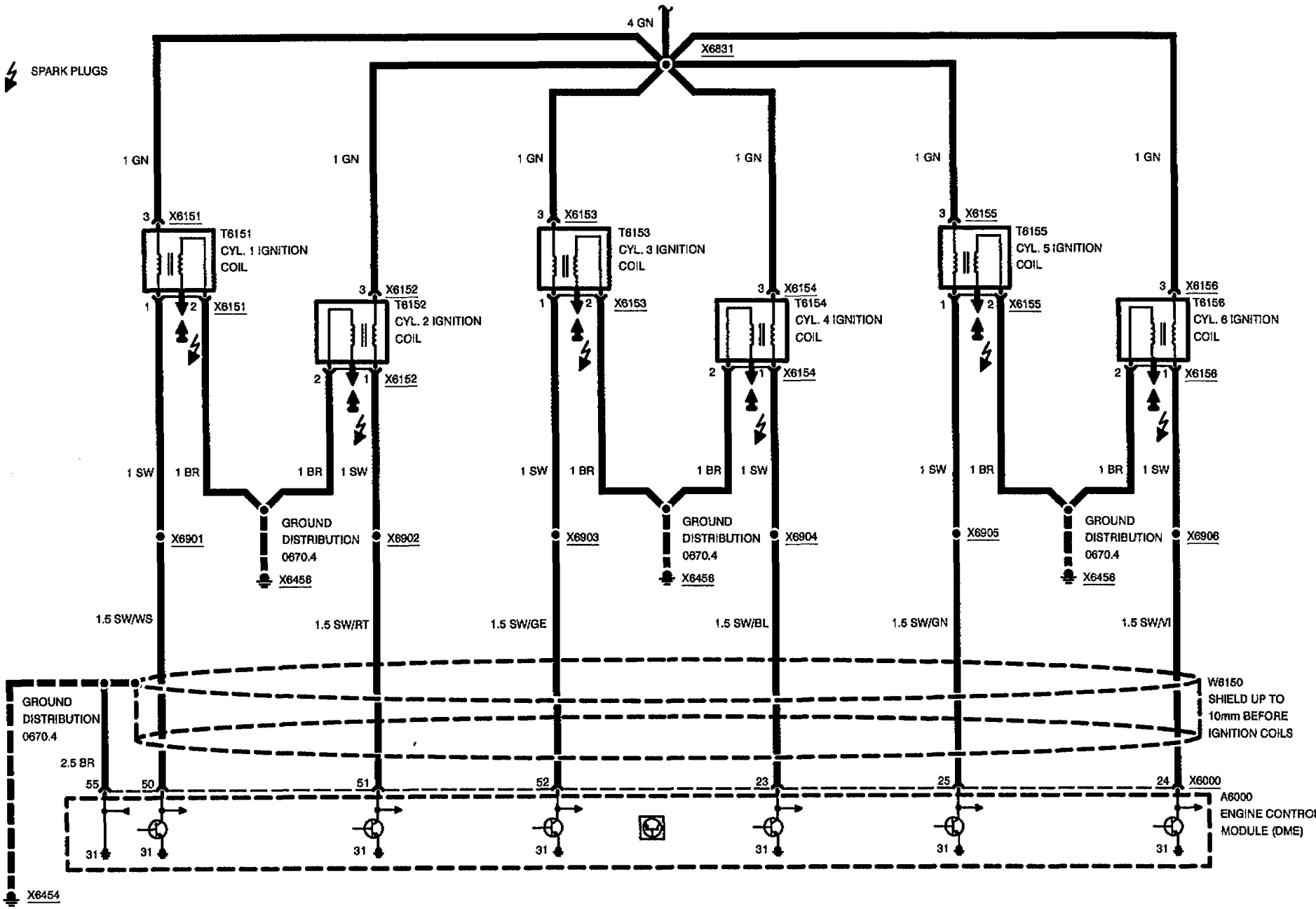



1210.13-00
START
1240.0
1210.13-02
1210.13-00
1 RT/WS
.5 RT/WS
.5 RT/WS
2.5 RT/WS
.5 SW/GE
.5 GN
.5 RT
X6130
Y6130
IDLE SPEED
CONTROL VALVE
X6823
.5 WS/BL
2.5 RT/WS
.5 WS/BL
X6550
Y6550
SOLENOID VALVE
("RUNNING
LOSSES")
X6314
K6314
DELAY RELAY
87
30
X6120
Y6120
EVAPORATIVE
EMISSION VALVE
X6822
X6314
GROUND
DISTRIBUTION
0670.4
X6208
B6208
CAMSHAFT
ACTUATOR
X6550
GROUND
DISTRIBUTION
0670.4
2.5 RT/WS
X6454
X6454
X6820
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
X6105
Y6105
CYL. 5 FUEL
INJECTION VALVE
X6106
Y6106
CYL. 6 FUEL
INJECTION VALVE
X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
.5 WS/GE
.5 WS/GN
.5 BR
.5 GN/BL
.75 BR/WS
.75 BR/RT
.75 BR/GE
.75 BR/BL
.75 BR/GN
.75 BR/VI
X6000
A6000
ENGINE CONTROL
MODULE (DME)

ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

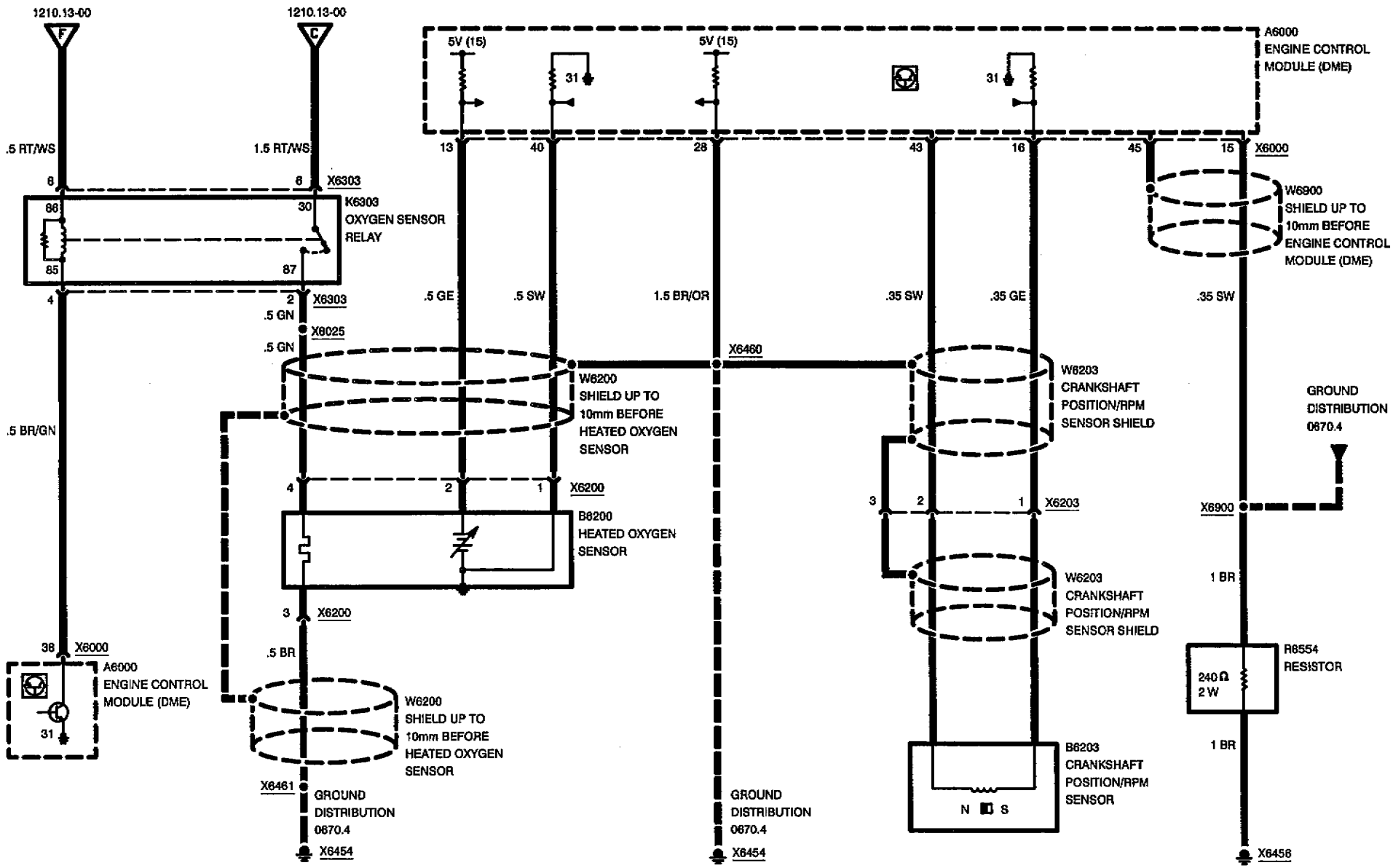
FUEL PUMP, IGNITION COILS



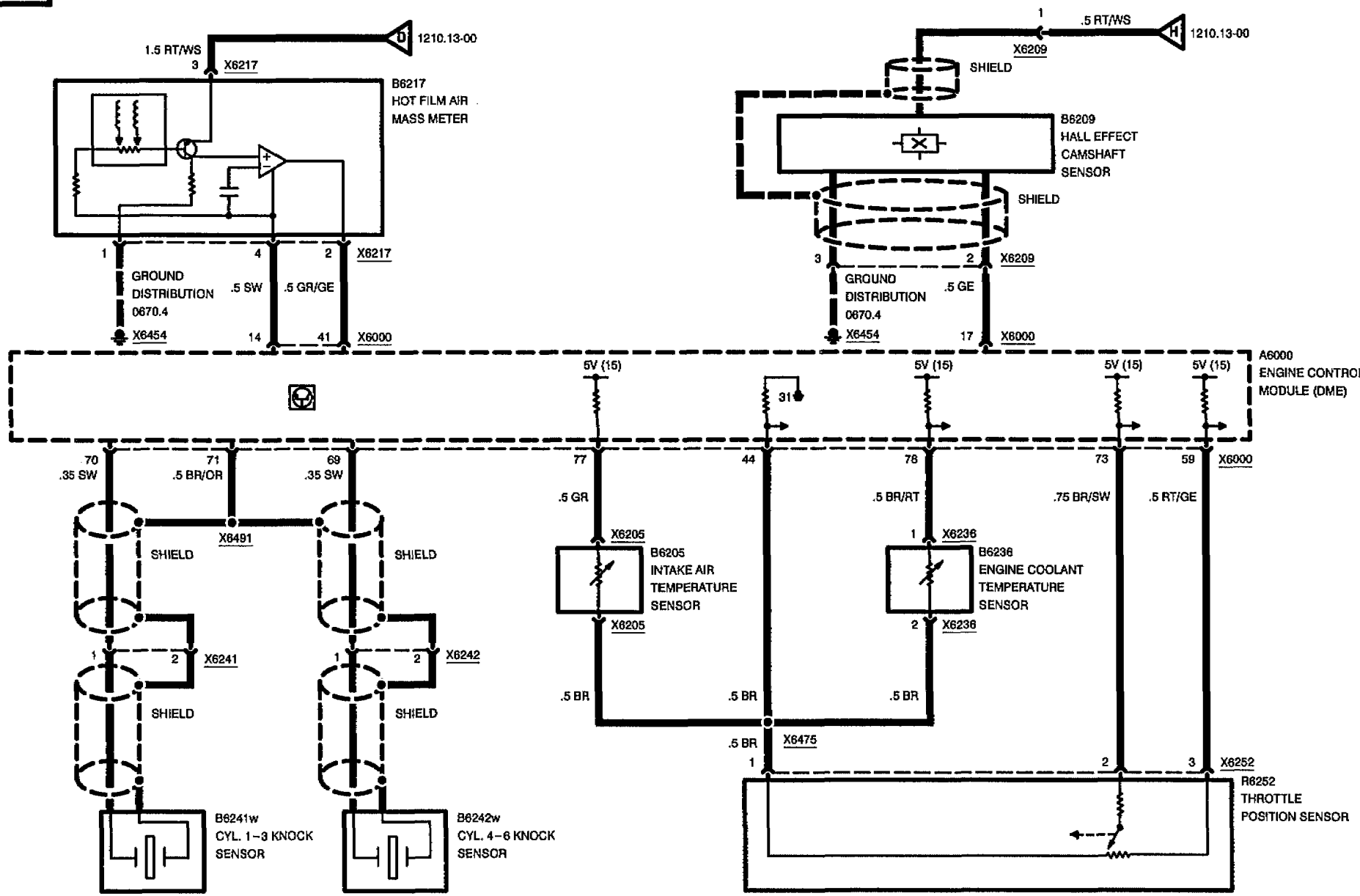

SPARK PLUGS
4 GN
X6831
1 GN
1 GN
1 GN
1 GN
1 GN
1 GN
X6151
T6151
CYL. 1 IGNITION COIL
X6152
T6152
CYL. 2 IGNITION COIL
X6153
T6153
CYL. 3 IGNITION COIL
X6154
T6154
CYL. 4 IGNITION COIL
X6155
T6155
CYL. 5 IGNITION COIL
X6156
T6156
CYL. 6 IGNITION COIL
1 SW
1 BR
1 BR
1 SW
GROUND DISTRIBUTION 0670.4
X6456
X6901
X6902
X6903
X6904
X6905
X6906
1.5 SW/WS
1.5 SW/RT
1.5 SW/GE
1.5 SW/BL
1.5 SW/GN
1.5 SW/VI
W6150
SHIELD UP TO 10mm BEFORE IGNITION COILS
GROUND DISTRIBUTION 0670.4
2.5 BR
55
50
51
52
23
25
24
X6000
A6000
ENGINE CONTROL MODULE (DME)
31
X6454

ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

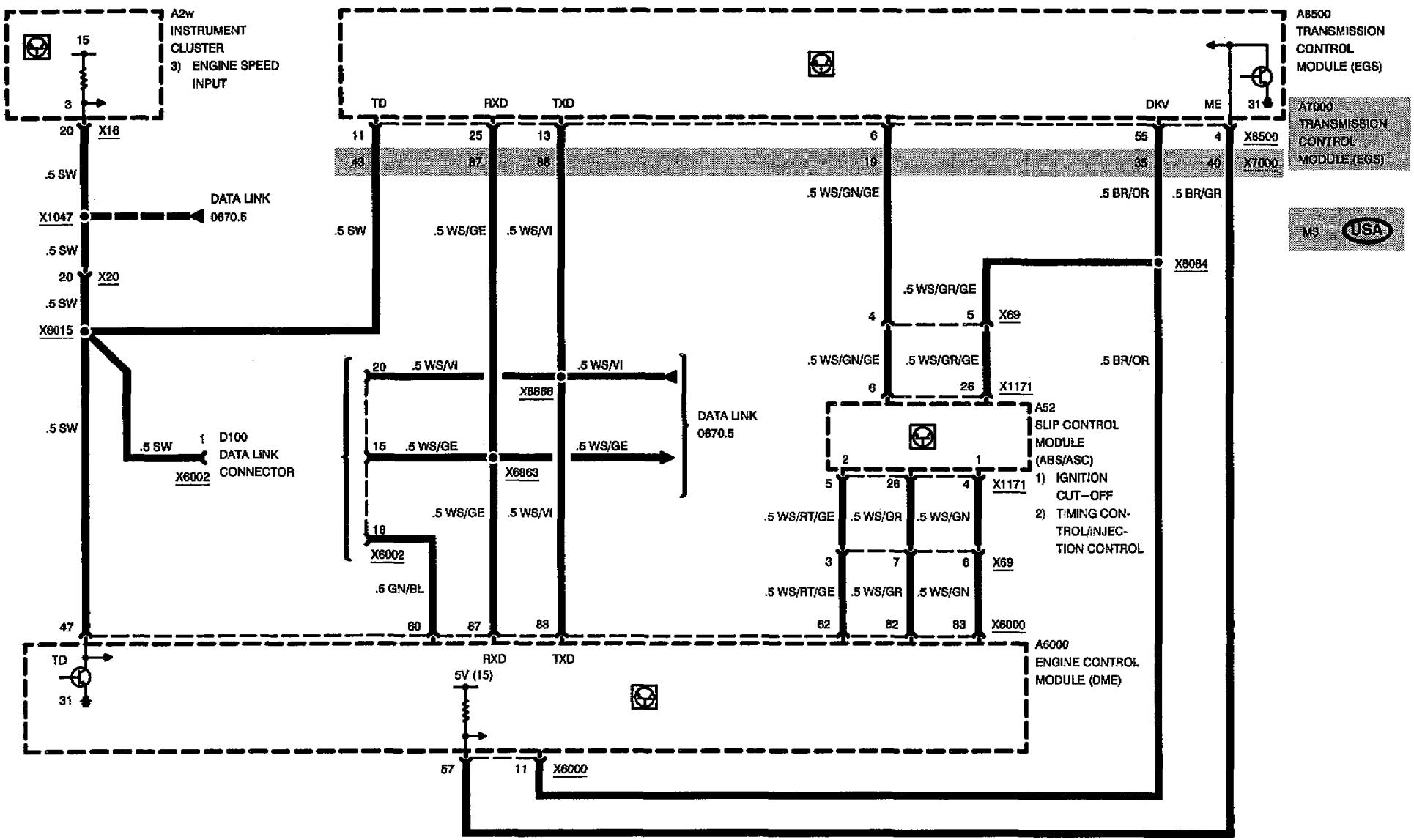


ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

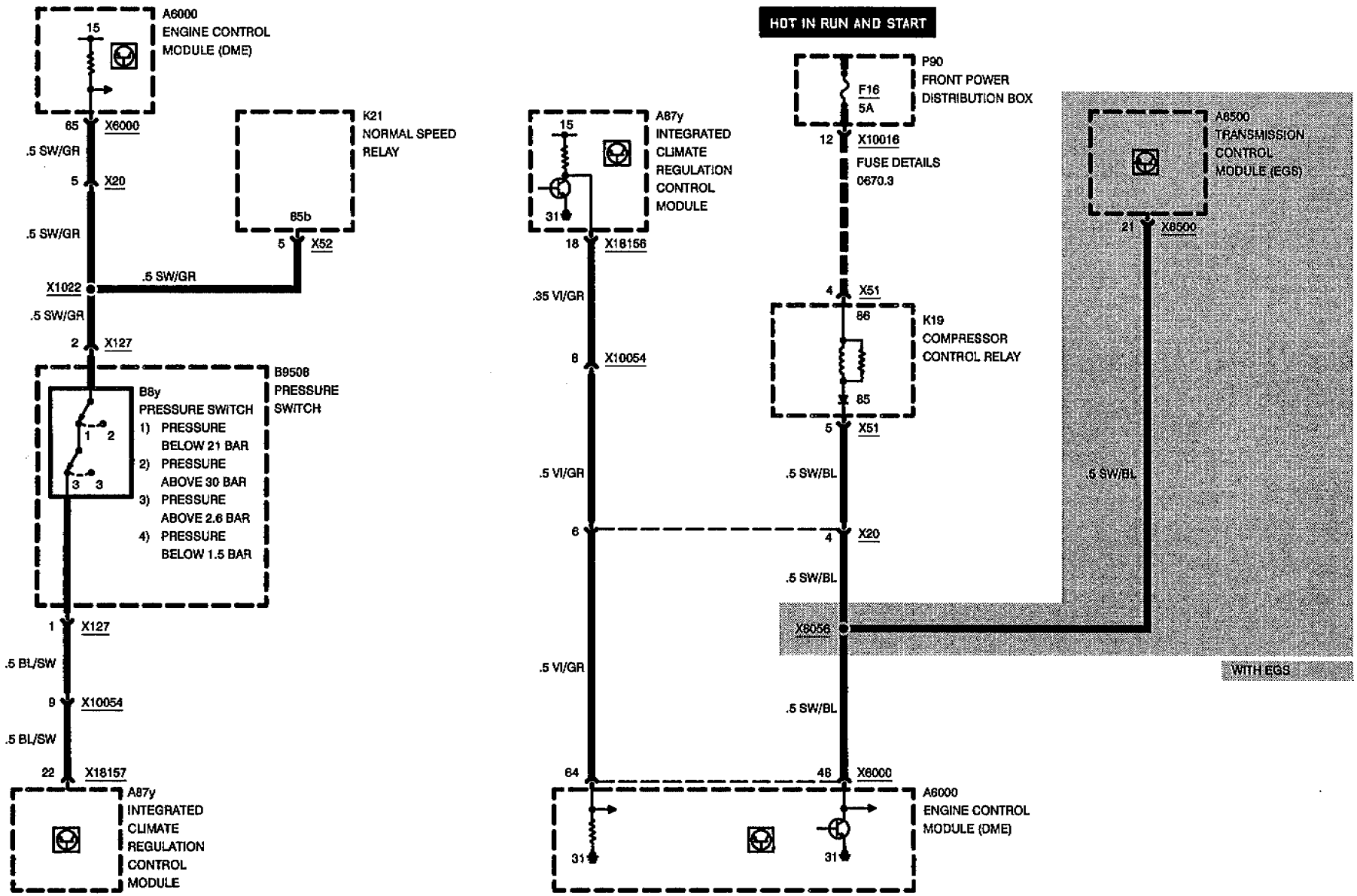


ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)

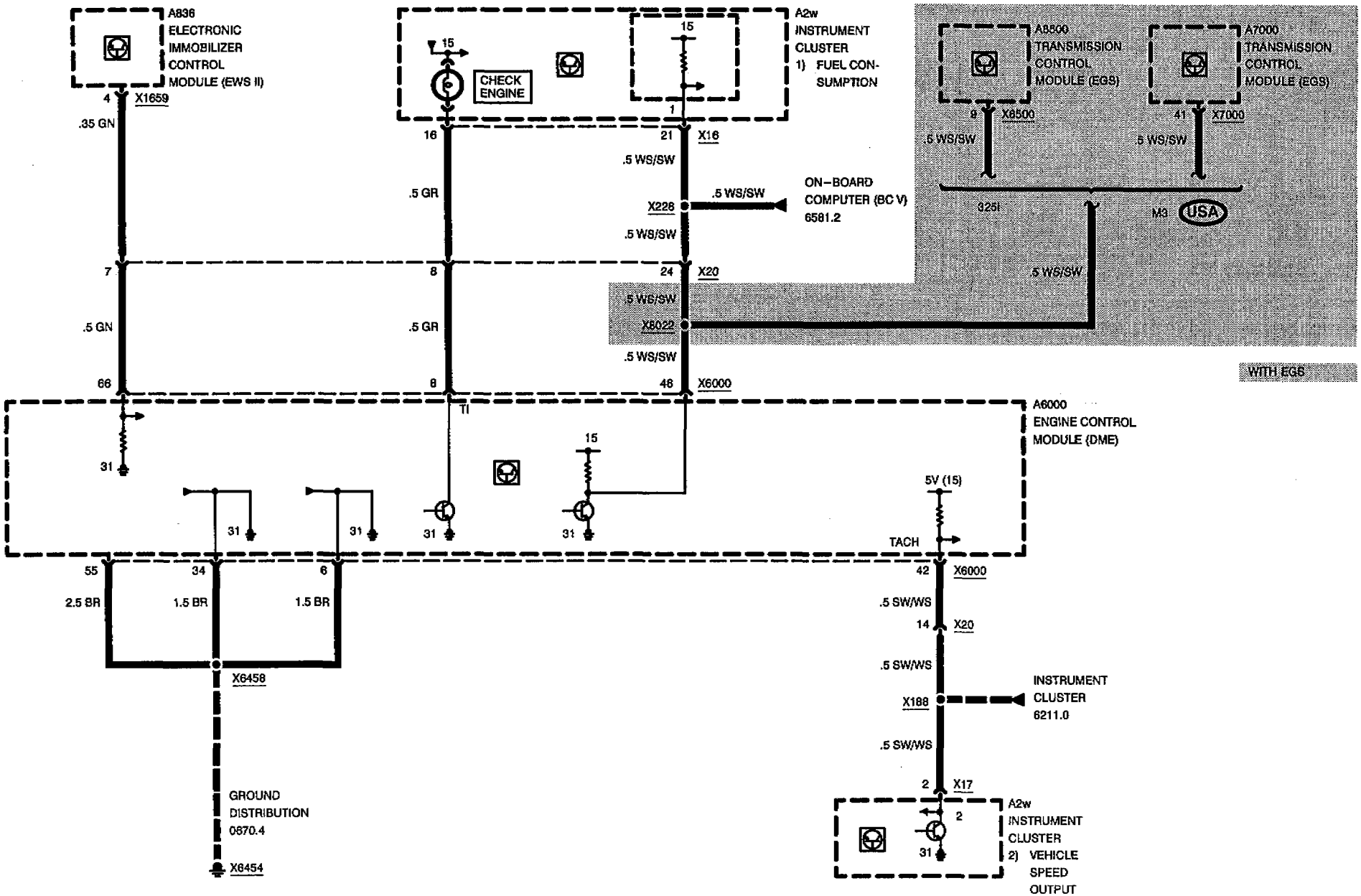
DATA LINK

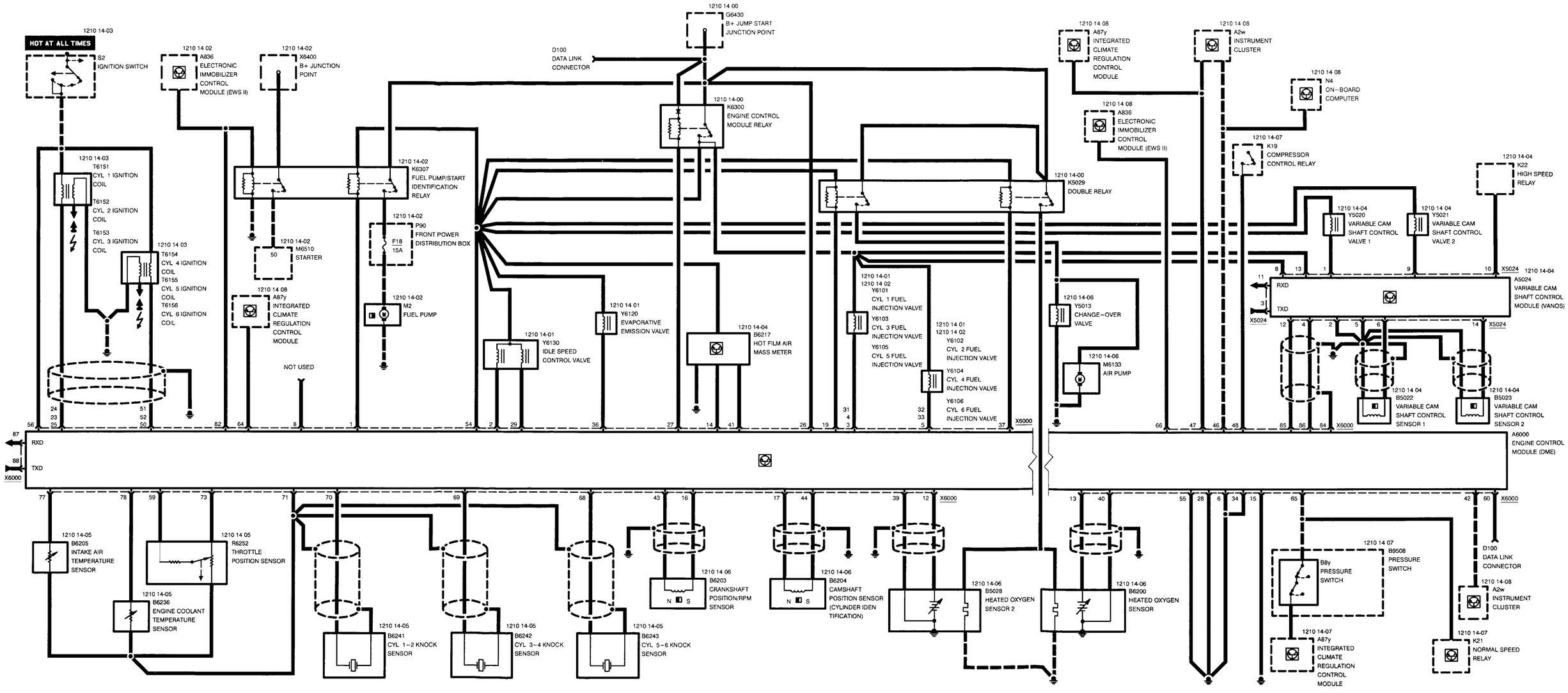


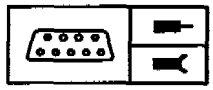
ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)



ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)




HOT AT ALL TIMES
1210 14-03
S2
IGNITION SWITCH
1210 14 02
A836
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)
1210 14-02
X6400
B+ JUNCTION POINT
1210 14 00
G6430
B+ JUMP START JUNCTION POINT
D100
DATA LINK CONNECTOR
1210 14-00
K6300
ENGINE CONTROL MODULE RELAY
1210 14 08
A87y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
1210 14 08
A2w
INSTRUMENT CLUSTER
1210 14 08
N4
ON-BOARD COMPUTER
1210 14 08
A836
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)
1210 14-07
K19
COMPRESSOR CONTROL RELAY
1210 14-03
T6151
CYL 1 IGNITION COIL
T6152
CYL 2 IGNITION COIL
T6153
CYL 3 IGNITION COIL
1210 14 03
T6154
CYL 4 IGNITION COIL
T6155
CYL 5 IGNITION COIL
T6156
CYL 6 IGNITION COIL
1210 14-02
K6307
FUEL PUMP/START IDENTIFICATION RELAY
1210 14-02
50
M6510
STARTER
1210 14 08
A87y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
NOT USED
1210 14-02
P90
FRONT POWER DISTRIBUTION BOX
F18
15A
1210 14-02
M2
FUEL PUMP
1210 14-01
Y6130
IDLE SPEED CONTROL VALVE
1210 14 01
Y6120
EVAPORATIVE EMISSION VALVE
1210 14-04
B6217
HOT FILM AIR MASS METER
1210 14-00
K5029
DOUBLE RELAY
1210 14-01
1210 14 02
Y6101
CYL 1 FUEL INJECTION VALVE
Y6103
CYL 3 FUEL INJECTION VALVE
Y6105
CYL 5 FUEL INJECTION VALVE
1210 14 01
1210 14 02
Y6102
CYL 2 FUEL INJECTION VALVE
Y6104
CYL 4 FUEL INJECTION VALVE
Y6106
CYL 6 FUEL INJECTION VALVE
1210 14-06
Y5013
CHANGE-OVER VALVE
1210 14-06
M6133
AIR PUMP
1210 14-04
Y5020
VARIABLE CAM SHAFT CONTROL VALVE 1
1210 14 04
Y5021
VARIABLE CAM SHAFT CONTROL VALVE 2
1210 14-04
K22
HIGH SPEED RELAY
X5024
1210 14-04
A5024
VARIABLE CAM SHAFT CONTROL MODULE (VANOS)
RXD
TXD
1210 14-04
B5022
VARIABLE CAM SHAFT CONTROL SENSOR 1
1210 14-04
B5023
VARIABLE CAM SHAFT CONTROL SENSOR 2
X6000
A6000
ENGINE CONTROL MODULE (DME)
1210 14-05
B6205
INTAKE AIR TEMPERATURE SENSOR
1210 14-05
B6236
ENGINE COOLANT TEMPERATURE SENSOR
1210 14-05
R6252
THROTTLE POSITION SENSOR
1210 14-05
B6241
CYL 1-2 KNOCK SENSOR
1210 14-05
B6242
CYL 3-4 KNOCK SENSOR
1210 14-05
B6243
CYL 5-6 KNOCK SENSOR
1210 14-06
B6203
CRANKSHAFT POSITION/RPM SENSOR
1210 14-06
B6204
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)
1210 14-06
B5028
HEATED OXYGEN SENSOR 2
1210 14-06
B6200
HEATED OXYGEN SENSOR
1210 14 07
B9508
PRESSURE SWITCH
B8y
PRESSURE SWITCH
1210 14-07
A87y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
1210 14-08
A2w
INSTRUMENT CLUSTER
1210 14-07
K21
NORMAL SPEED RELAY



Pin Assignments

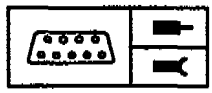
X5024

Pin	Type	Description/Function	Connection
1	A	Valve 1 (delayed setting)	Variable camshaft control valve 1
2	M	Ground	Ground
3	A	RxD diagnostic data link	Data link connector
4	E/A	CAN-High signal	Engine control module (DME)
5	M	Ground	Ground
6	E	Sensor 1 (output NW)	Variable camshaft control sensor 1
7		Not used	
8	E	Battery voltage	DME relay
9	A	Valve 2 (advanced setting)	Variable camshaft control valve 2
10	E	Fan signal	High speed relay (auxiliary fan)
11	E/A	TxD diagnostic data link	Data link connector
12	E/A	CAN-Low signal	Engine control module (DME)
13	E	Battery voltage	DME-relay
14	E	Sensor 2 (input NW)	Variable camshaft control sensor 2
15		Not used	

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay control	Fuel pump relay
2	A	Close winding control	Idle speed control valve
3	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
4	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	M	Ground, full injection output stages	Ground
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10		Not used	
11		Not used	

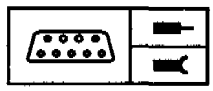
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
12	E	Oxygen sensor II signal	Heated oxygen sensor
13	E	Oxygen sensor I signal	Heated oxygen sensor
14	M	Ground, hot film air mass meter	Hot film air mass meter
15	E	Ignition control signal	Ground
16	E	Crankshaft position/RPM sensor signal	Crankshaft position/RPM sensor
17	E	Camshaft position sensor signal	Hall effect camshaft sensor
18		Not used	
19	A	Secondary air pump	Double relay
20		Not used	
21		Not used	
22		Not used	
23	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	Jump start junction point
27	A	DME relay signal	Engine control module relay
28	M	Ground	Ground
29	A	Opening winding control	Idle speed control valve
30		Not used	
31	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
32	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
33	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
34	M	Ground, output stages	Ground
35		Not used	
36	A	Evaporative emission valve control	Evaporative emission valve
37	A	Oxygen sensor heater control	Double relay
38		Not used	
39	M	Ground, oxygen sensor II	Heated oxygen sensor
40	M	Ground, oxygen sensor I	Heated oxygen sensor
41	E	Air mass meter signal	Hot film air mass meter
42	E	Vehicle speed signal	Instrument cluster
43	M	Ground, crankshaft sensor	Crankshaft position/RPM sensor

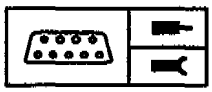
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
44	M	Ground, camshaft sensor	Hall effect camshaft sensor
45		Not used	
46	A	Ti-measurement signal (fuel consumption)	Instrument cluster/On-board computer
47	A	Crankshaft RPM speed signal TD	Instrument cluster
48	E	A/C compressor signal	Compressor control relay
49		Not used	
50	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
51	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
52	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
53		Not used	
54	E	Battery voltage	Engine control module (DME)
55	M	Ground, ignition	Ground
56	E	Voltage, terminal 15	Ignition switch
57		Not used	
58		Not used	
59	A	5V voltage supply	Throttle position sensor
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64	E	A/C signal	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch/Auxiliary VENT I
66	E	Drive away protection signal	Electronic immobilizer control module (EWS II)
67		Not used	
68	E	Knock sensor signal	Cyl. 5-6 knock sensor
69	E	Knock sensor signal	Cyl. 3-4 knock sensor
70	E	Knock sensor signal	Cyl. 1-2 knock sensor
71	M	Ground, knock sensors and shields	Knock sensors and shields
72		Not used	
73	E	Throttle position	Throttle position sensor
74		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

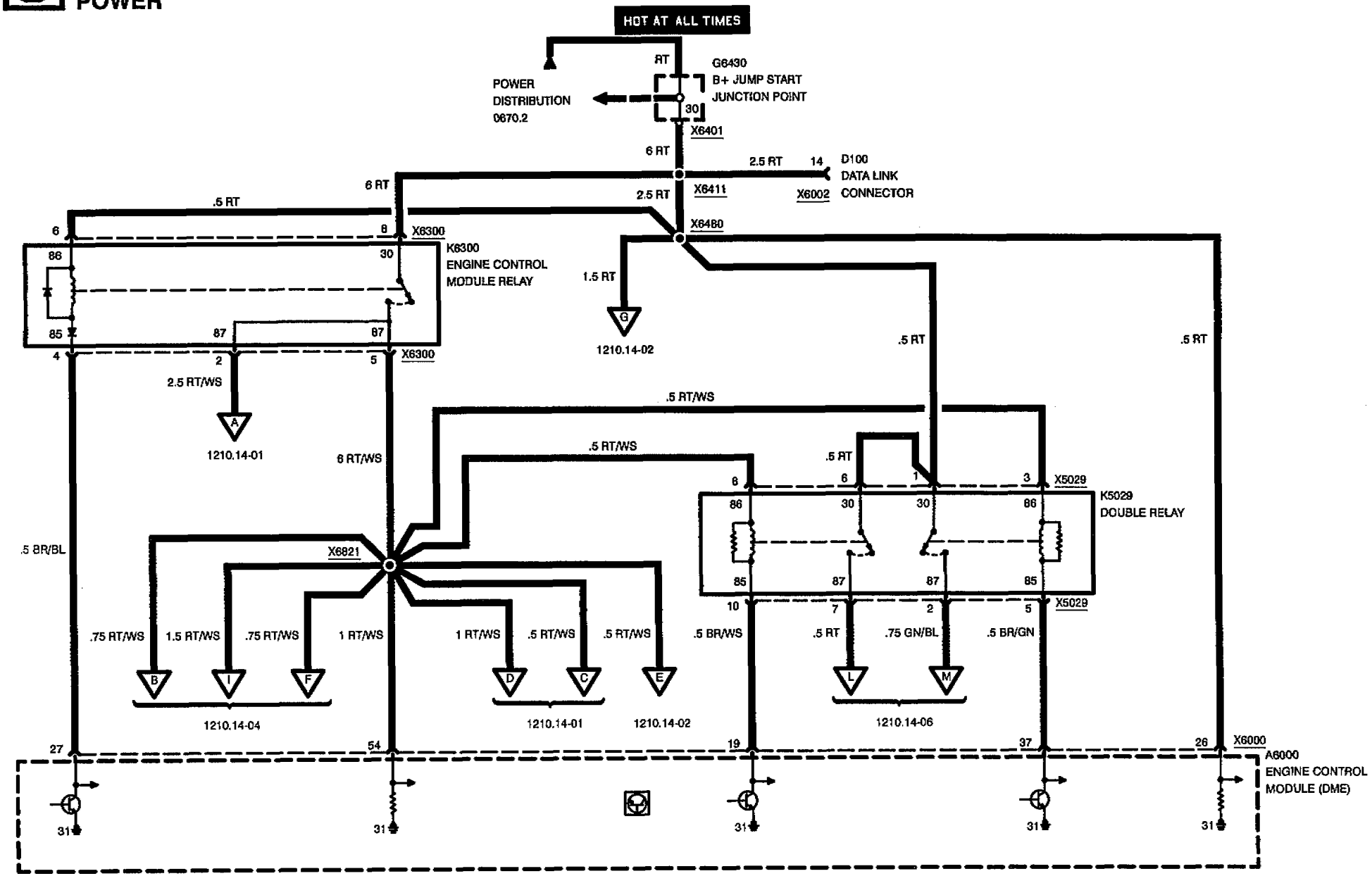
Pin	Type	Description/Function	Connection
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81		Not used	
82	E	Start revolution signal	Ignition switch
83		Not used	
84	M	Shield	Ground
85	E/A	CAN-Low signal	Variable camshaft control module
86	E/A	CAN-High signal	Variable camshaft control module
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

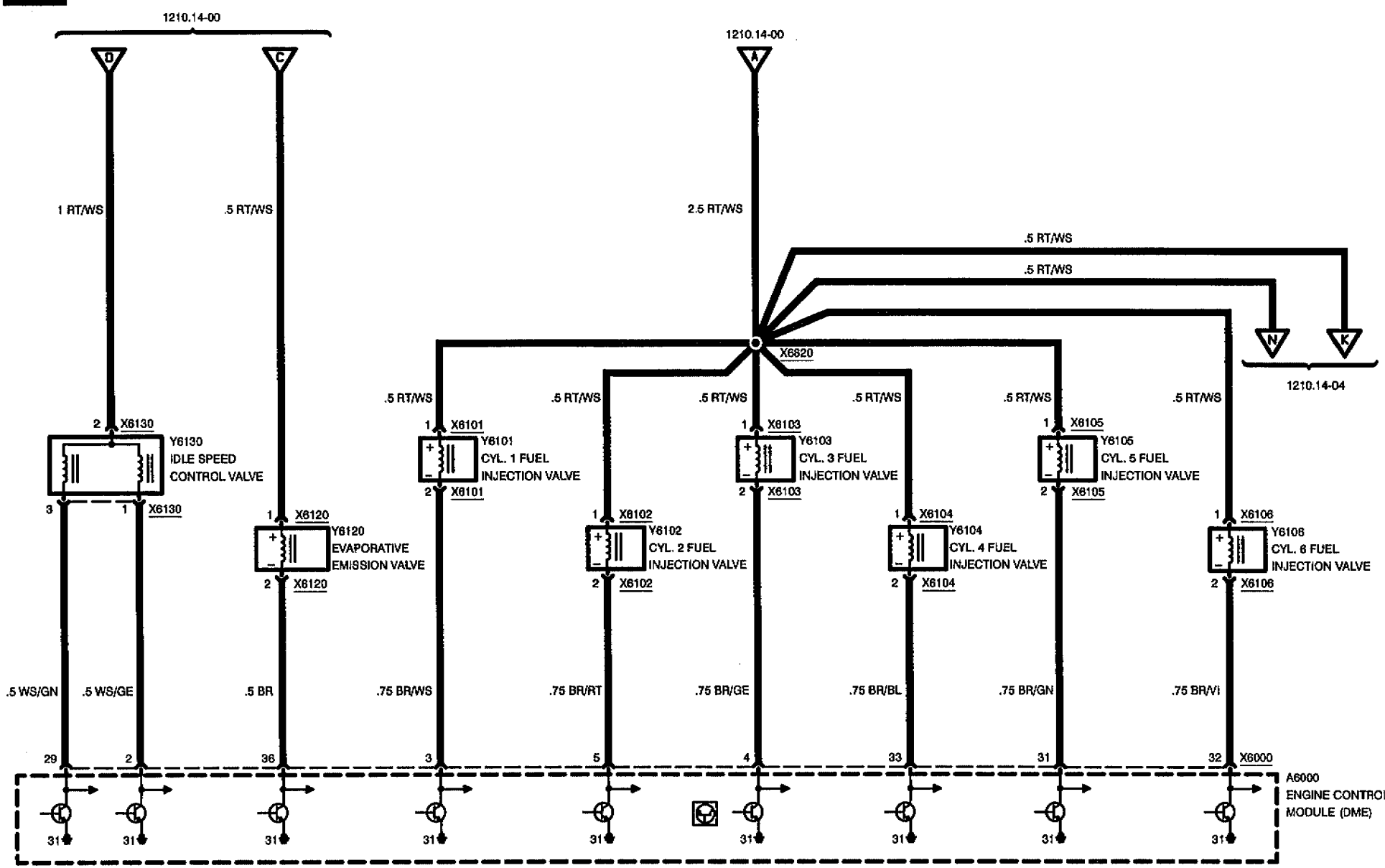
CDN

POWER



ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

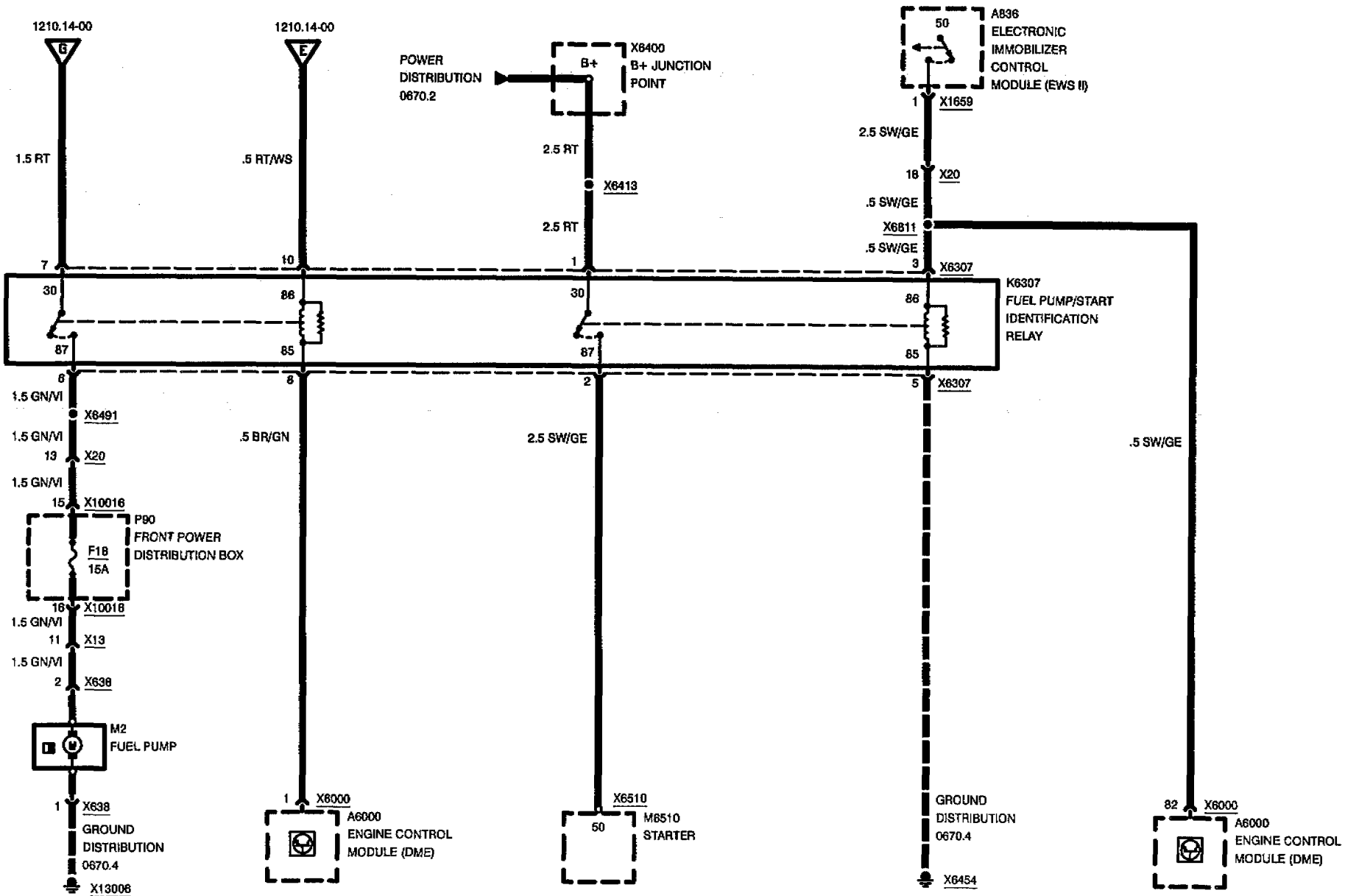
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ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

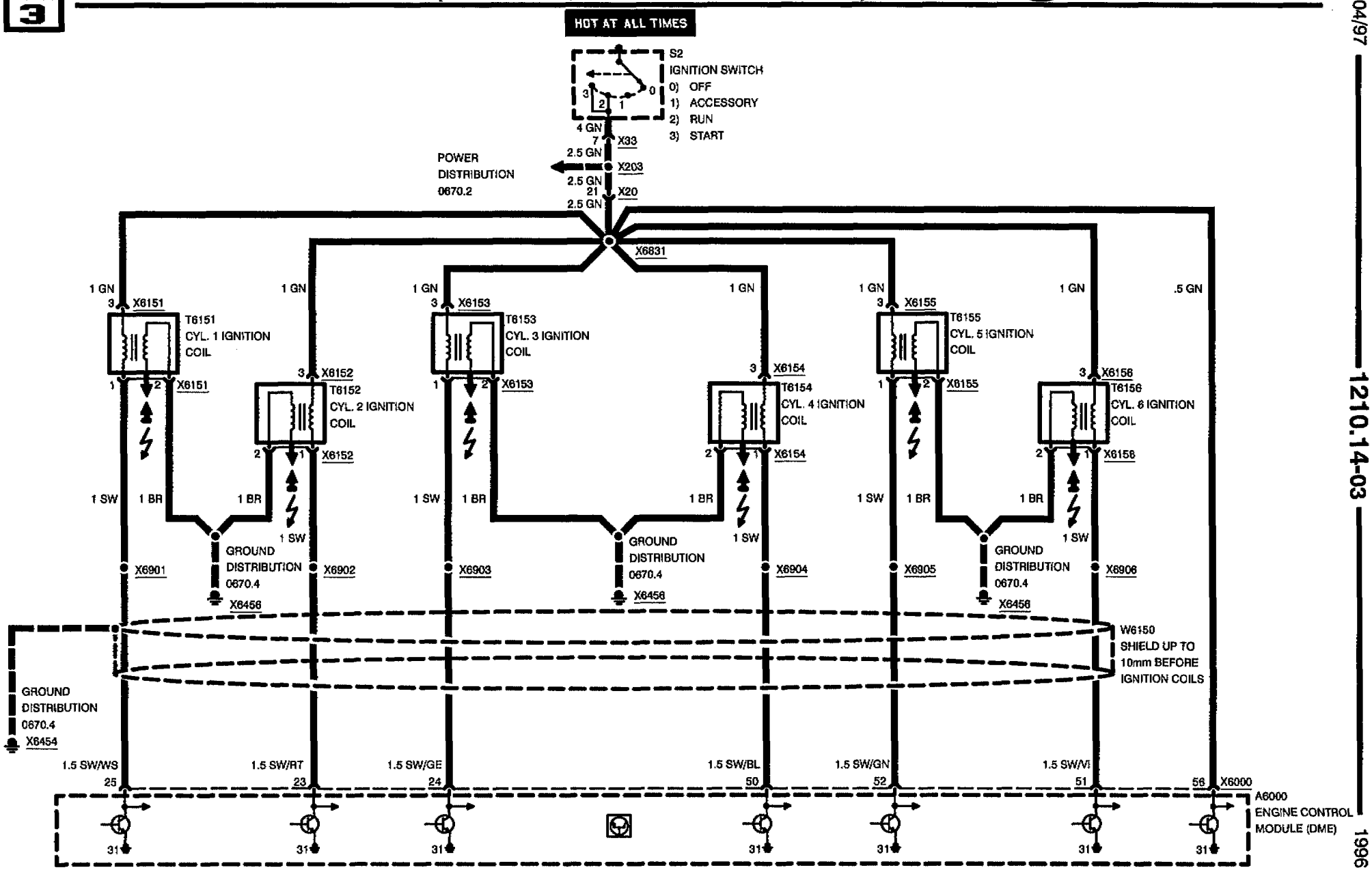
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POWER

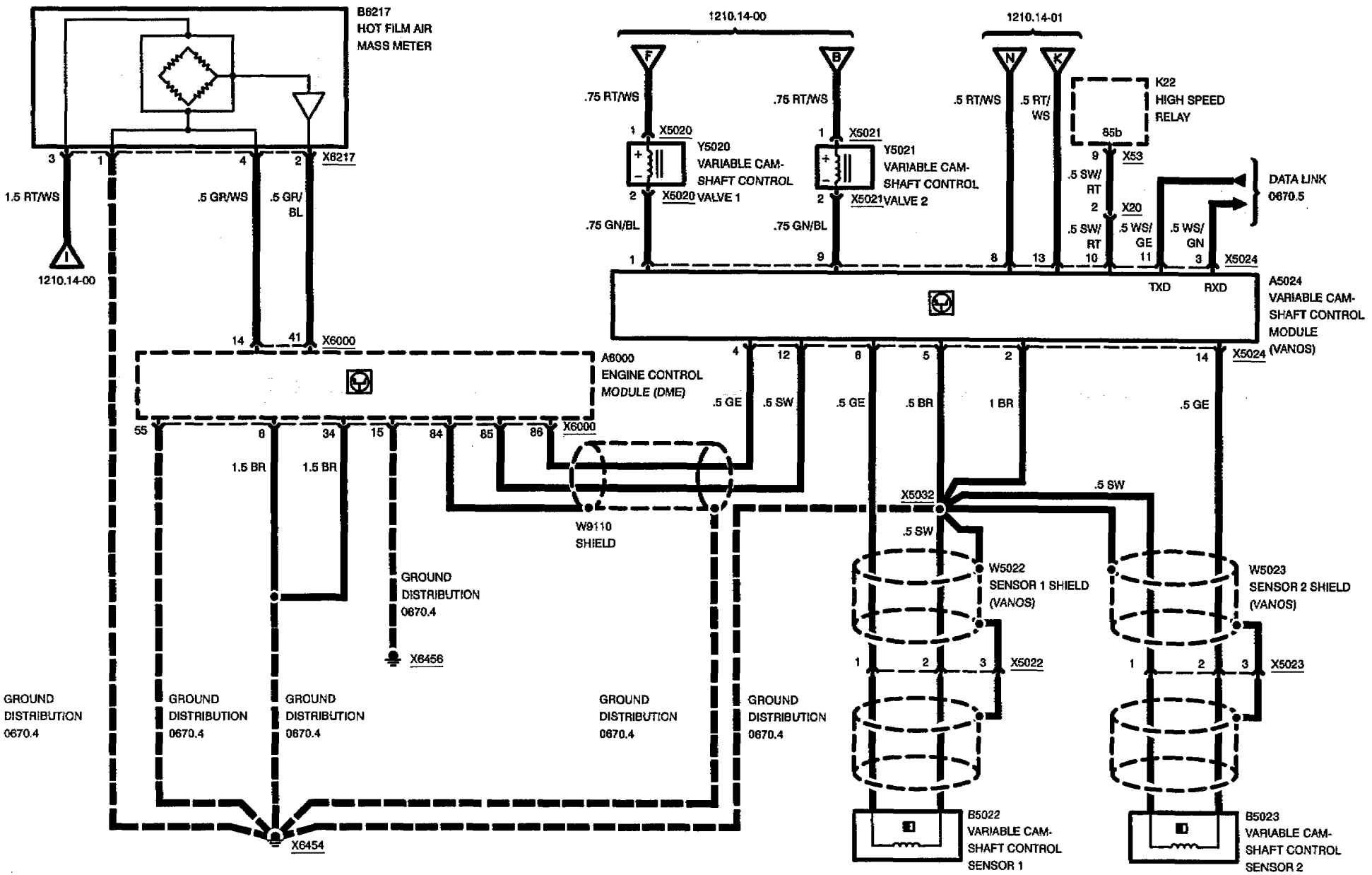


ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

CDN

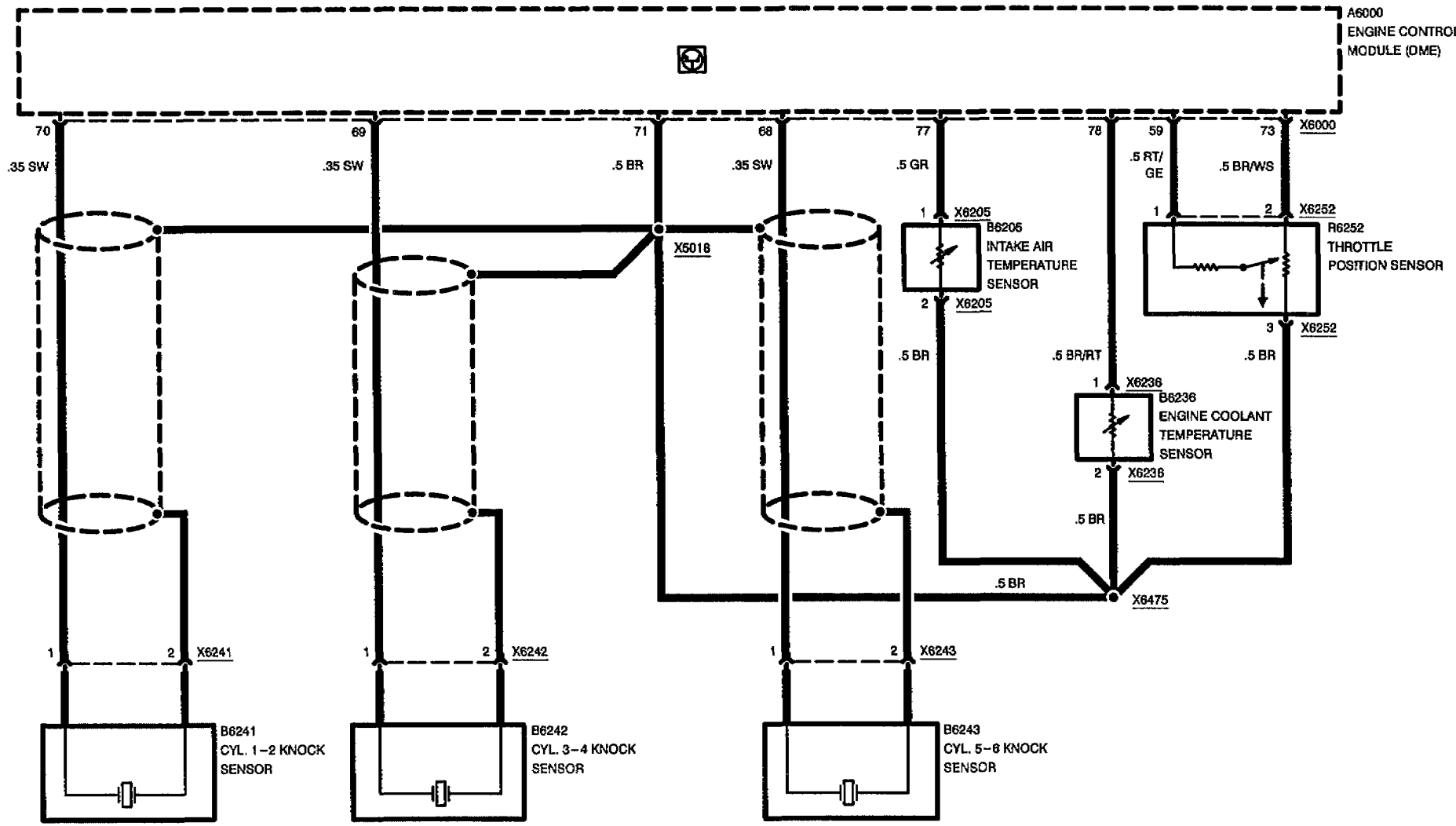


ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

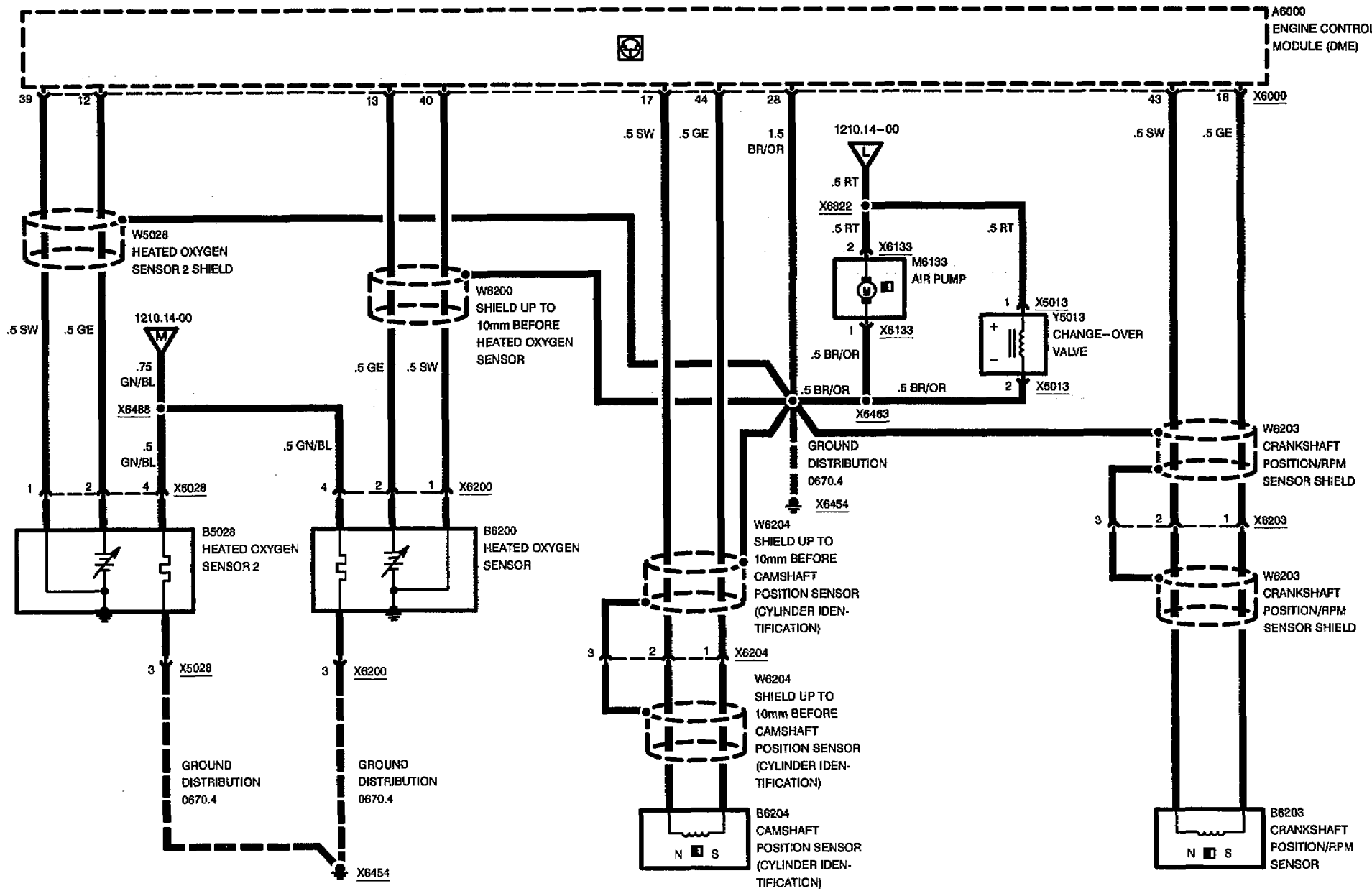


ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

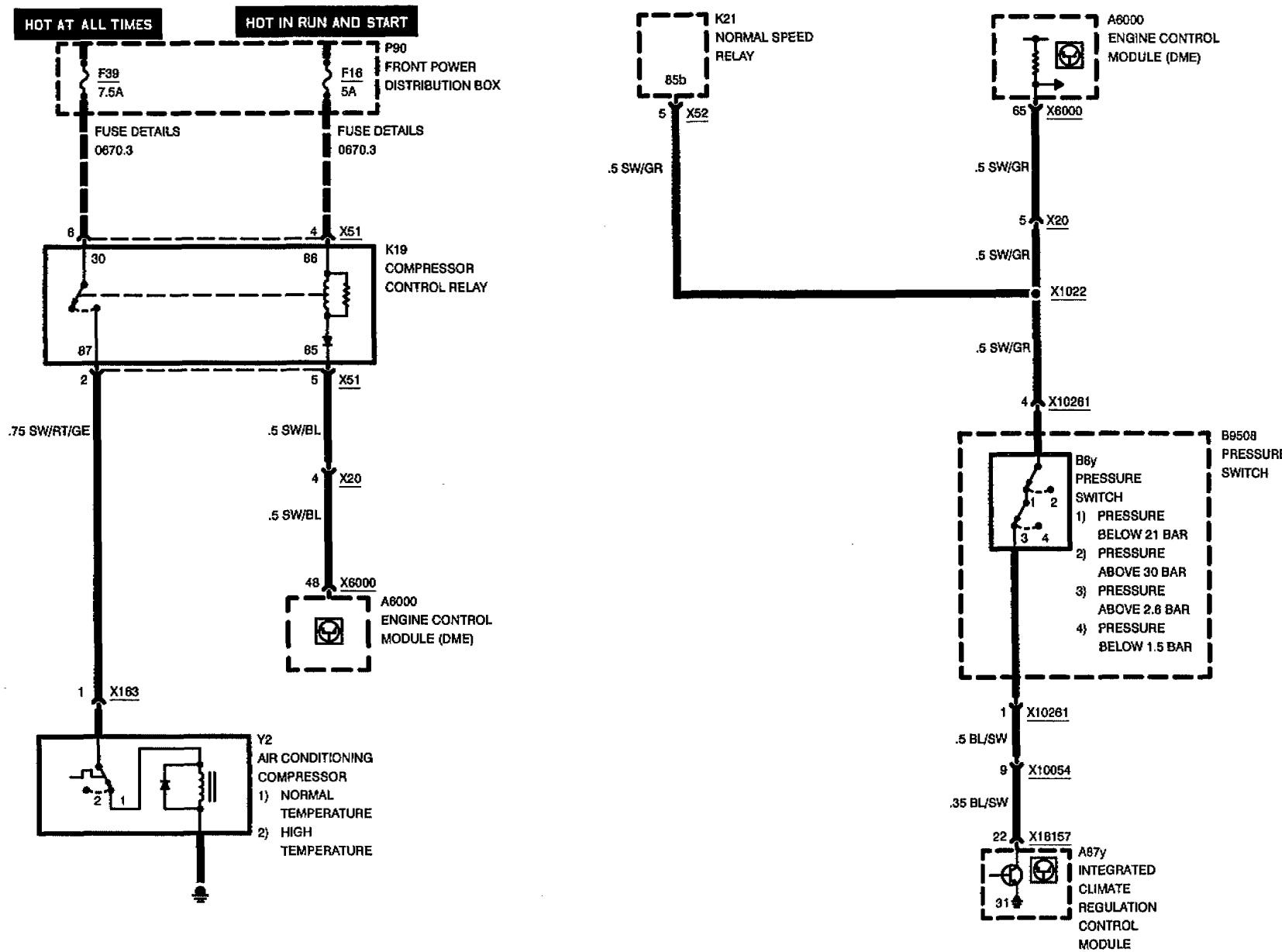
CDN



ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

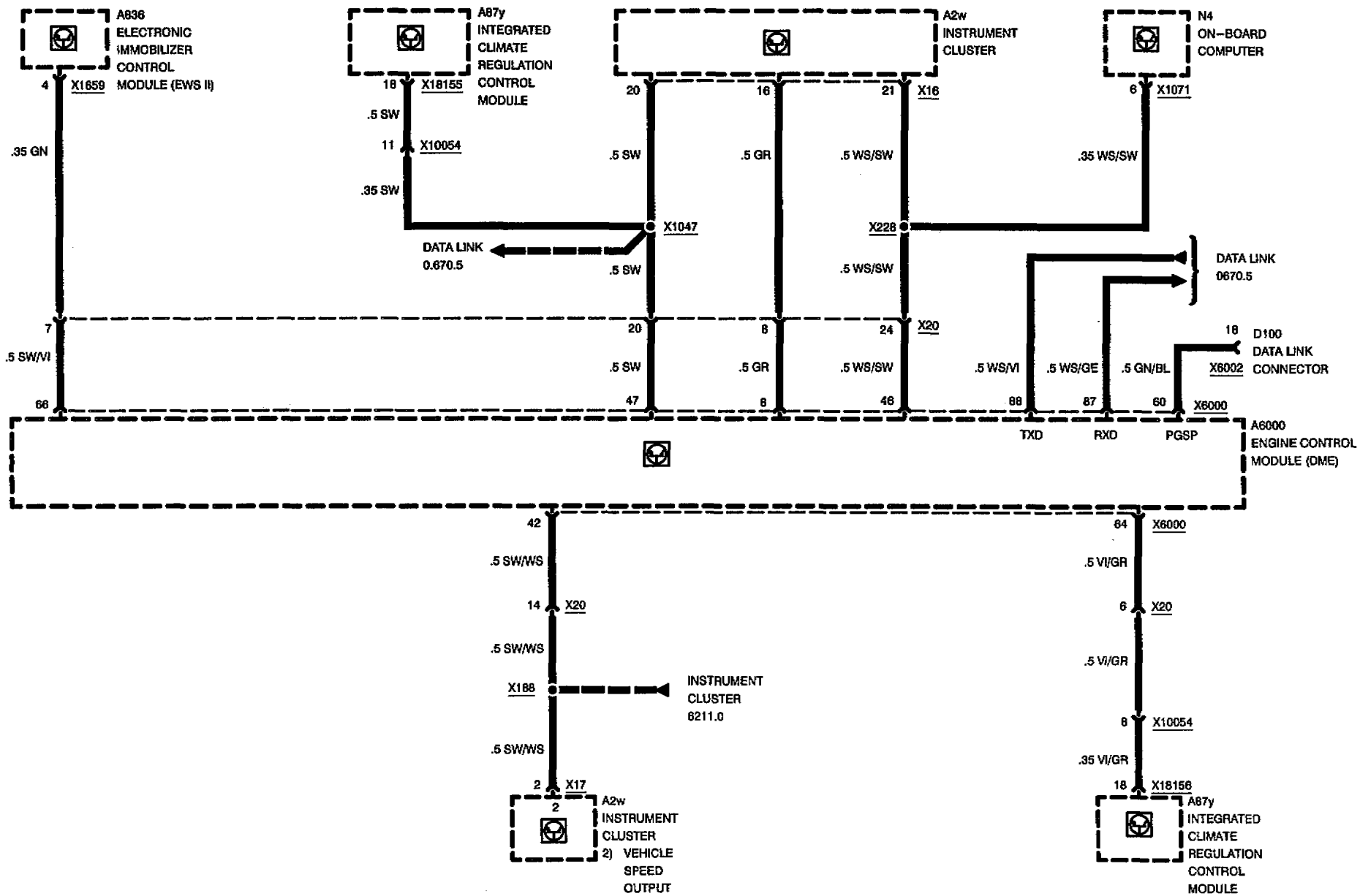


ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)



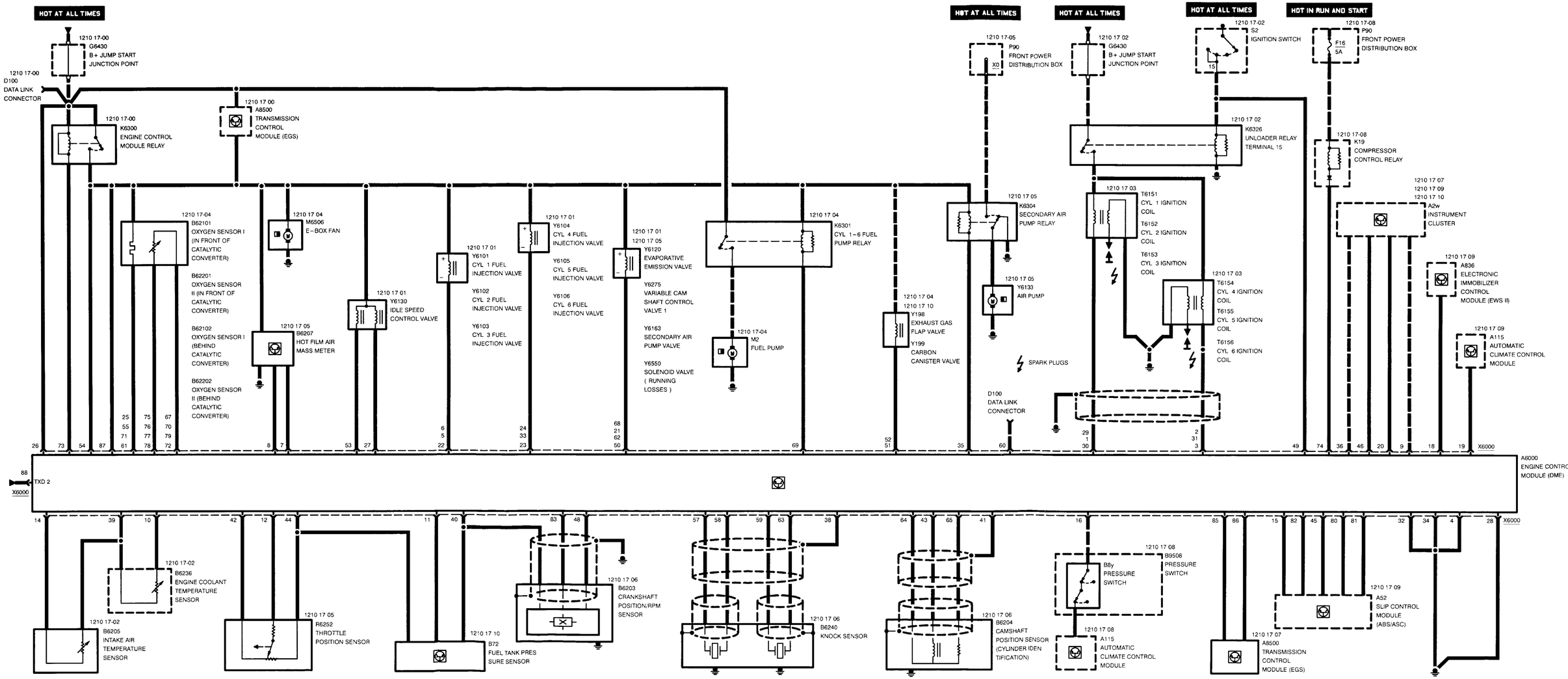
ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)

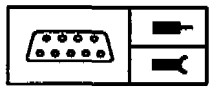
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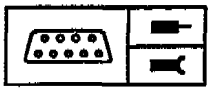


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
2	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
3	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
4	M	Ground	Ground point
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
7	M	Ground	Hot wire air mass meter
8	E	Hot wire air mass meter	Hot wire air mass meter
9	E	Ti-measurement signal (fuel consumption)	Instrument cluster
10	E	Engine coolant temperature	Engine coolant temperature sensor
11	E	Fuel tank pressure	Fuel tank pressure sensor
12	E	Throttle position signal	Throttle position sensor
13		Not used	
14	E	Intake air temperature	Intake air temperature sensor
15	E	Speed signal right rear	ABS/ASC control module
16	E	Activate A/C	Pressure switch
17		Not used	
18	E	Drive away protection signal (code)	Electronic immobilizer control module (EWS II)
19	E	A/C-ON-signal	Air conditioning operating unit
20	A	"Check engine" indicator control	Instrument cluster
21	A	Camshaft control	Variable camshaft control valve
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
24	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
25	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
26	E	Battery voltage	B+ jump start junction point
27	A	Activate valve	Idle speed control valve
28	M	Ground	Ground point
29	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil

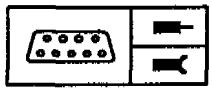
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
30	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
31	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
32	M	Ground	Ground point
33	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
34	M	Ground	Ground point
35	A	Activate relay	Secondary air pump relay
36	A	Crankshaft RPM speed signal TD	Instrument cluster
37		Not used	
38	M	Ground	Shield knock sensor
39	M	Ground	Temperature sensors
40	M	Ground	Crankshaft position/RPM sensor Fuel tank pressure sensor
41	M	Ground	Shield camshaft position sensor
42	M	Ground	Throttle position sensor
43	E	Camshaft position	Camshaft position sensor
44	A	Voltage supply	Throttle position sensor Fuel tank pressure sensor
45	A	Throttle position signal	ABS/ASC control module
46	E	Ti-measurement signal (fuel consumption)	Instrument cluster
47		Not used	
48	A	Voltage supply	Crankshaft position/RPM sensor
49	E	Terminal 15	Ignition switch
50	A	Running losses	Solenoid valve
51	A	Activate valve	Carbon canister valve
52	A	Signal exhaust flap	Exhaust gas flap valve
53	A	Activate valve	Idle speed controle valve
54	E	Battery voltage, terminal 87	Engine control module relay
55	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
56	M	Ground	Ground point
57	E	Cyl. 1-3 knock sensor	Knock sensor
58	E	Cyl. 1-3 knock sensor	Knock sensor
59	E	Cyl. 4-6 knock sensor	Knock sensor

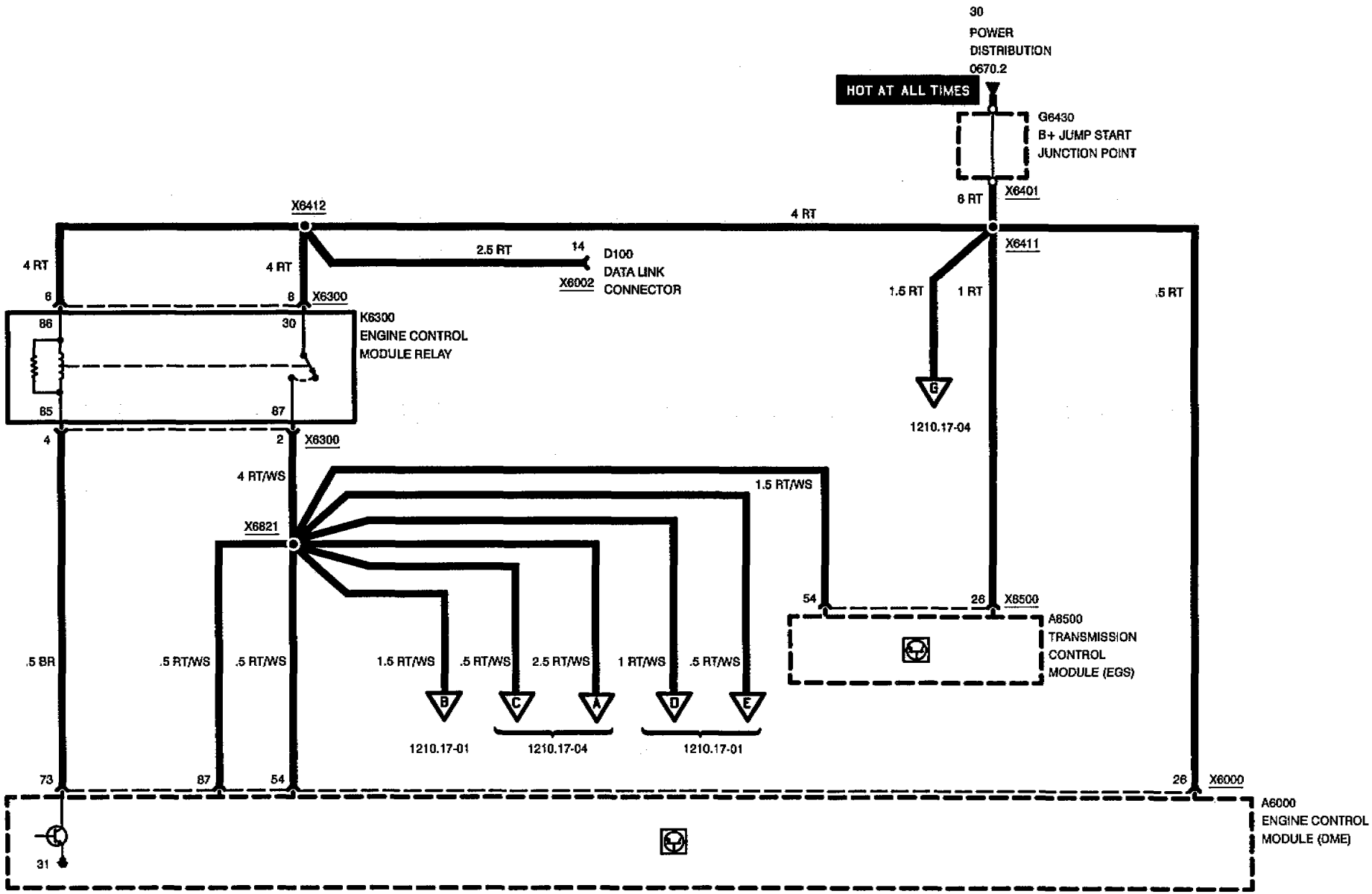
E = Input, A = Output, M = Ground

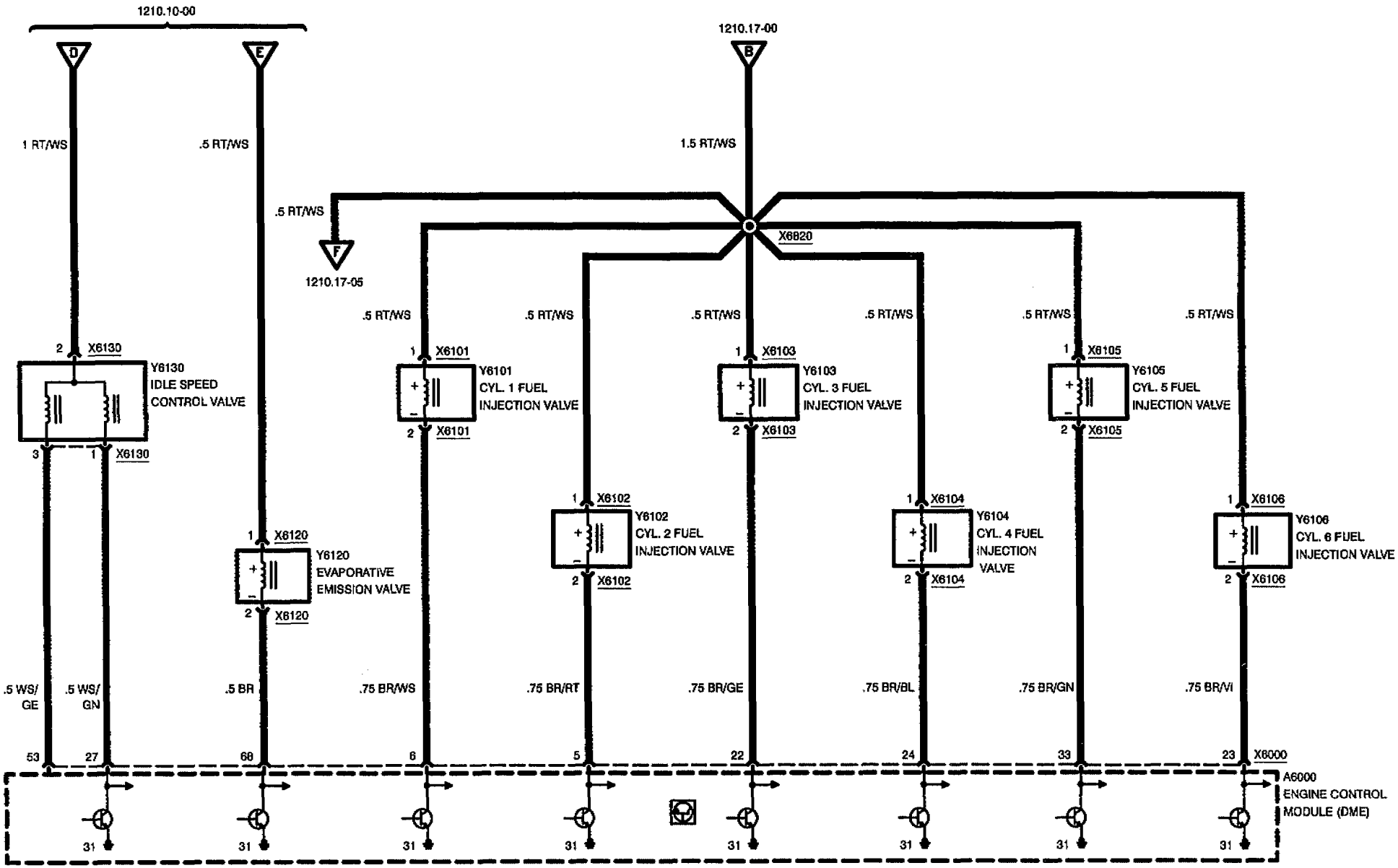


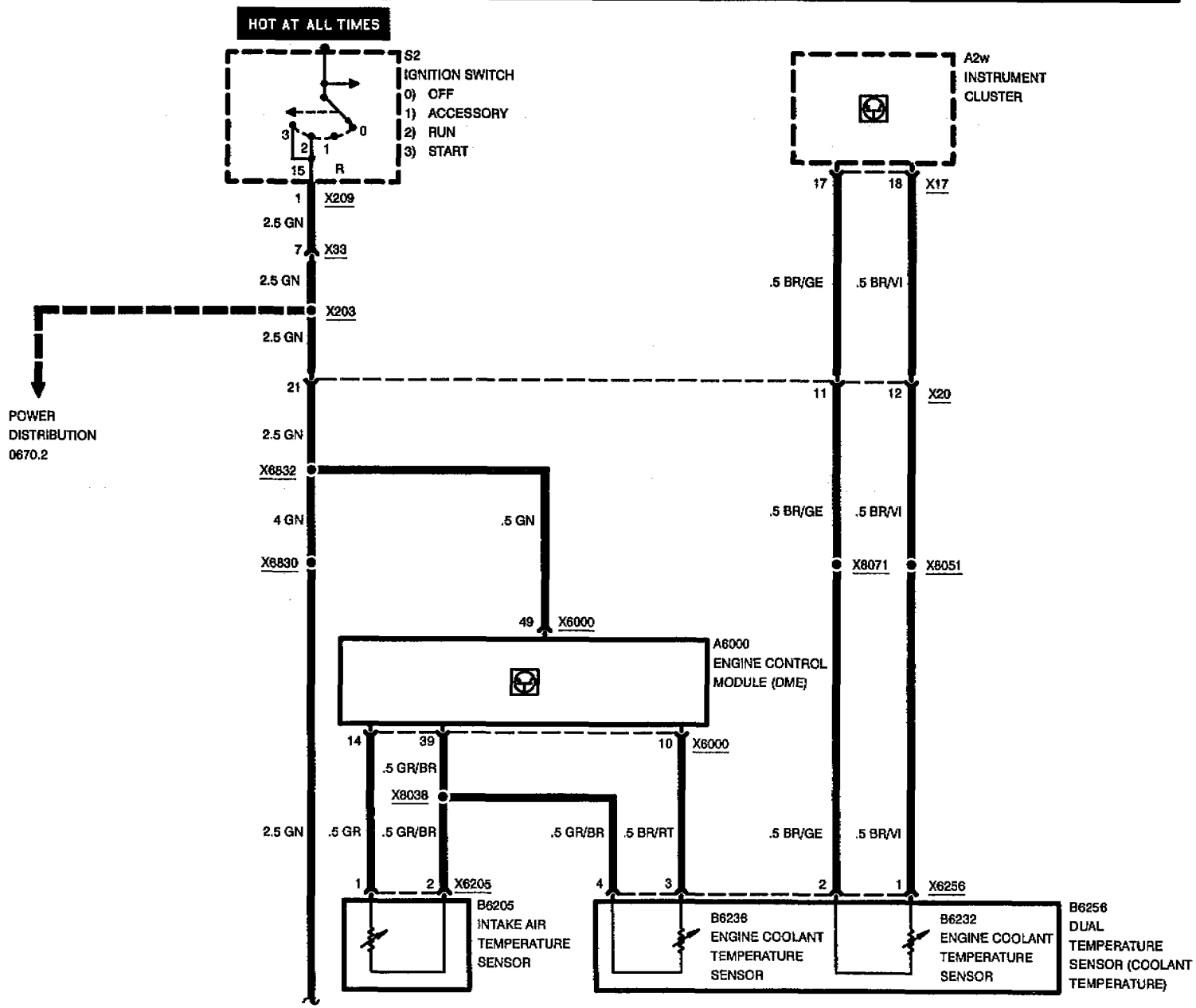
Pin Assignments

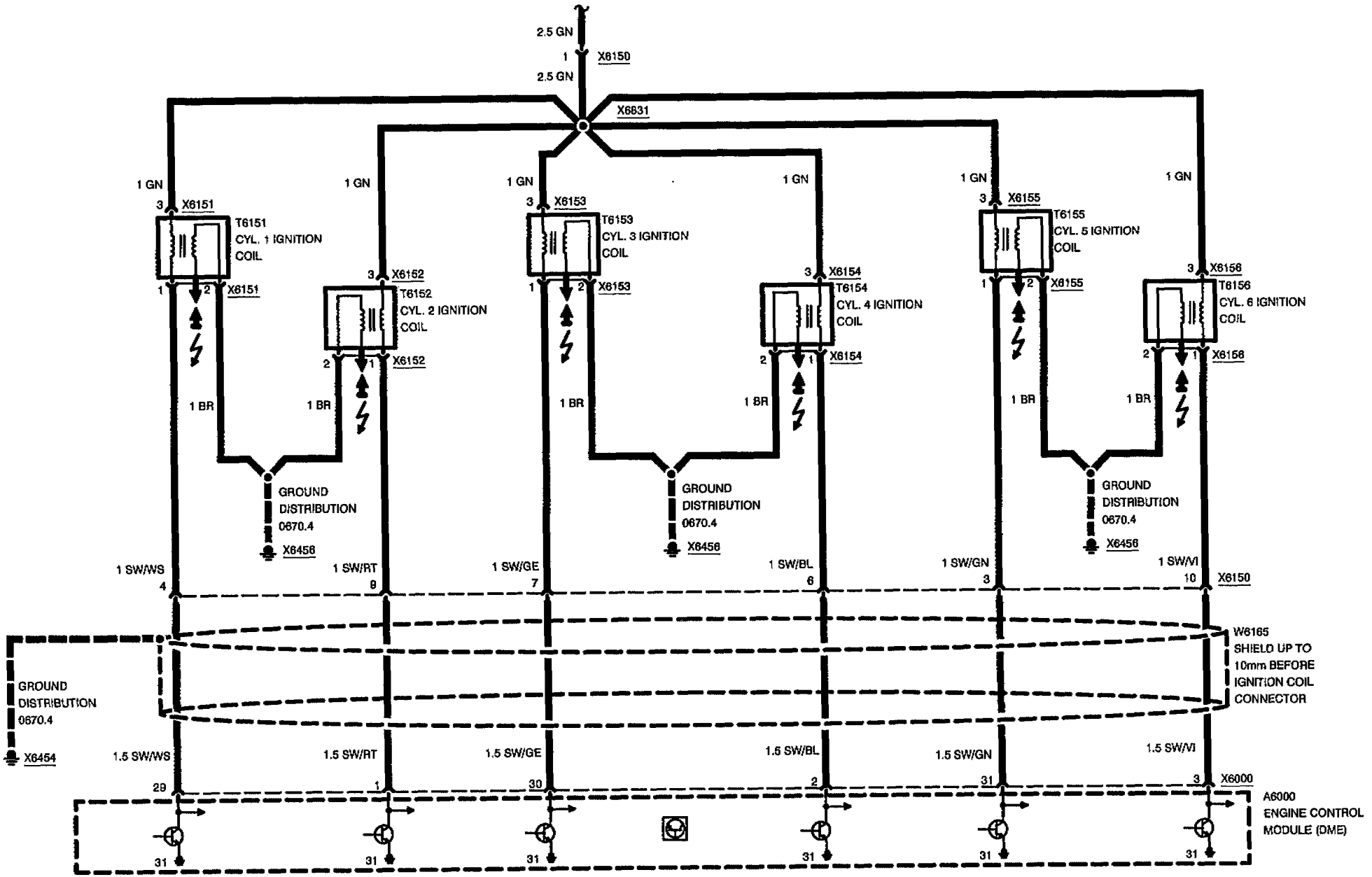
Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
62	A	Activate valve	Secondary air pump value
63	E	Cyl. 4-6 knock sensor	Knock sensor
64	M	Ground	Camshaft position sensor
65	E	Camshaft position	Camshaft position sensor
66		Not used	
67	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
68	A	Activate valve	Evaporative emission valve
69	A	Activate relay	Fuel pump relay
70	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
71	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
72	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
73	E	Activate relay	Engine control module relay
74	A	Activate A/C compressor	Compressor control relay
75	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
76	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
77	E	Sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Sensor signal	Oxygen sensor (behind catalytic converter)
79	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
80	A	ASC-signal ZA	Slip control module ABS/ASC
81	A	ASC-signal ZWV	Slip control module ABS/ASC
82	A	ASC-signal MSR	Slip control module ABS/ASC
83	E	Sensor signal	Crankshaft position/RPM sensor
84		Not used	
85	E/A	CAN LOW	Transmission control module EGS
86	E/A	CAN HIGH	Transmission control module EGS
87	E	Battery voltage, terminal 87	Engine control module relay
88	E/A	TxD diagnosis data link	Data link connector

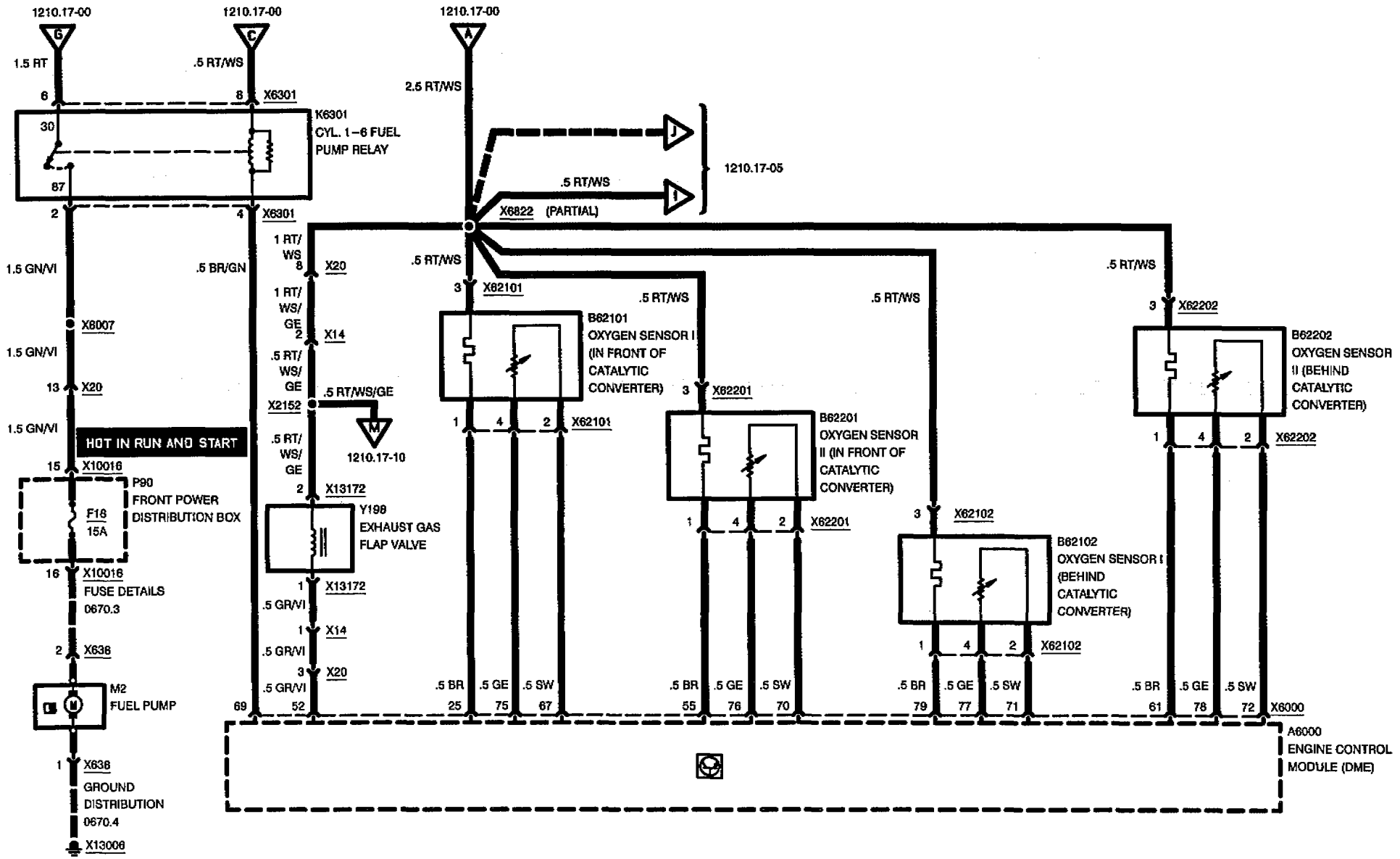
E = Input, A = Output, M = Ground

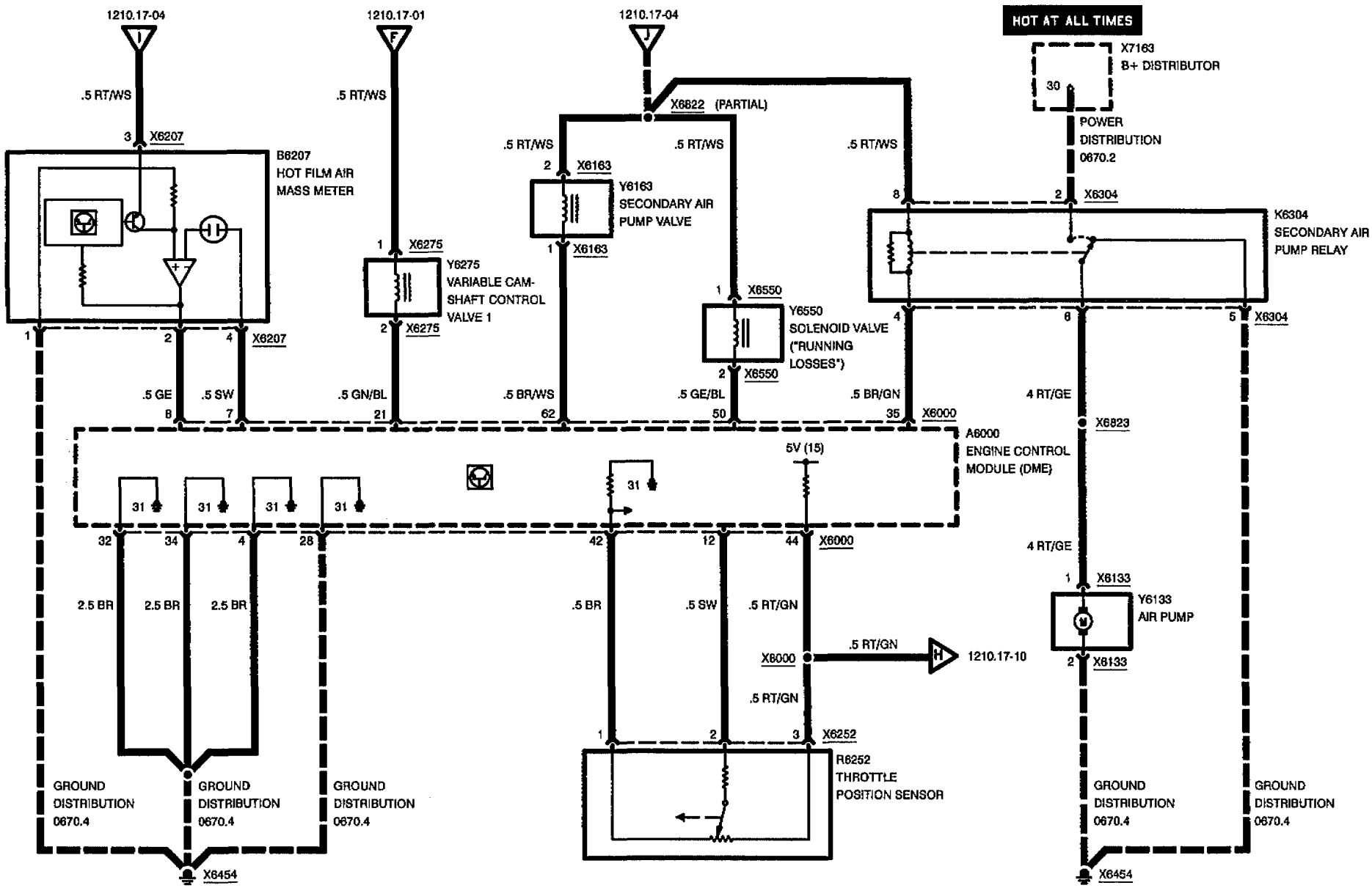

30
POWER
DISTRIBUTION
0670.2
HOT AT ALL TIMES
G6430
B+ JUMP START
JUNCTION POINT
X6401
6 RT
X6412
4 RT
X6411
2.5 RT
14
D100
DATA LINK
CONNECTOR
X6002
4 RT
4 RT
6
8
X6300
1.5 RT
1 RT
.5 RT
86
30
K6300
ENGINE CONTROL
MODULE RELAY
85
87
G
1210.17-04
4
2
X6300
4 RT/WS
1.5 RT/WS
X6821
54
26
X8500
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
.5 BR
.5 RT/WS
.5 RT/WS
1.5 RT/WS
.5 RT/WS
2.5 RT/WS
1 RT/WS
.5 RT/WS
B
C
A
D
E
1210.17-01
1210.17-04
1210.17-01
73
87
54
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31

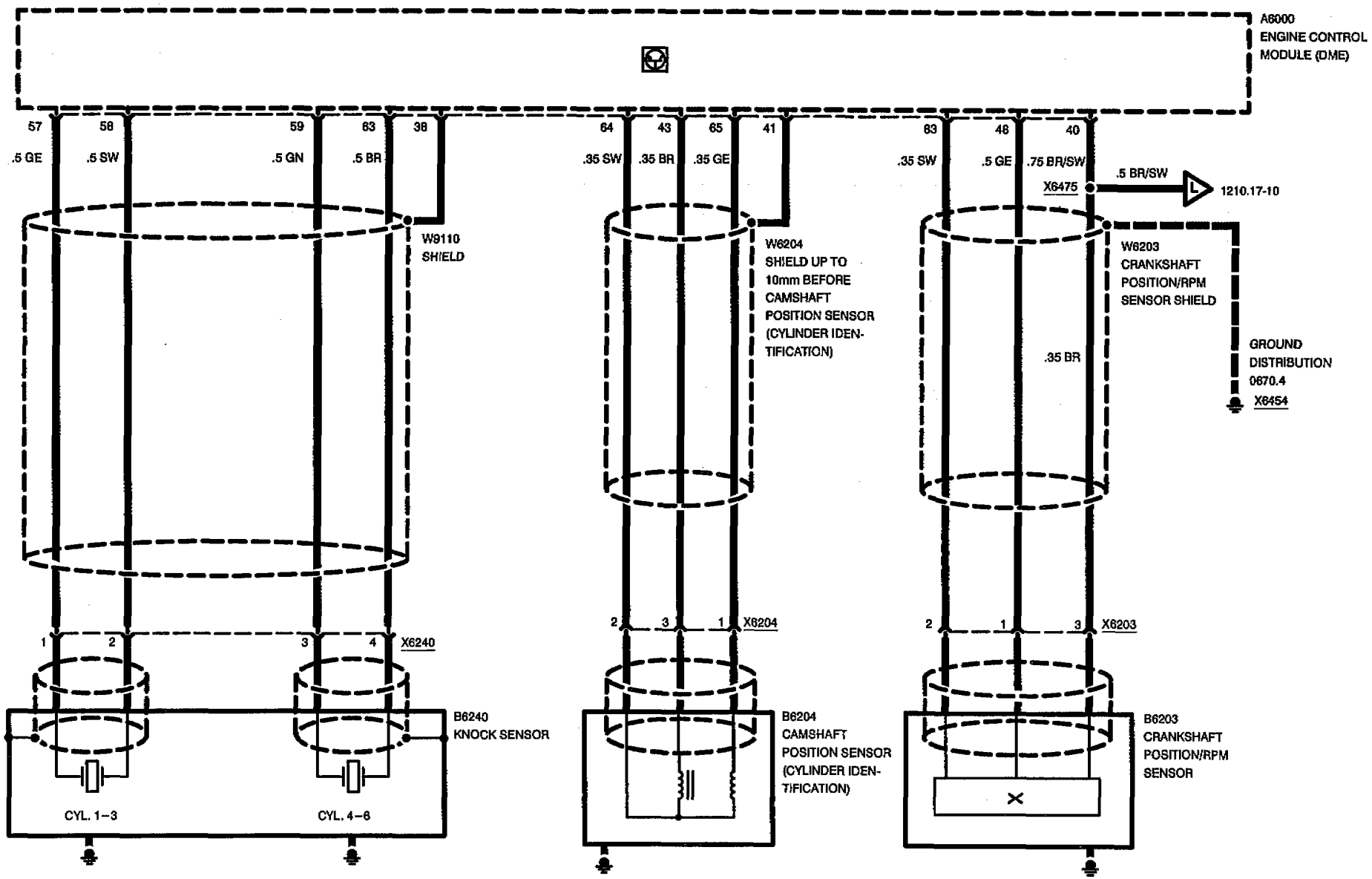

1210.10-00
1210.17-00
D
E
B
F
1 RT/WS
.5 RT/WS
1.5 RT/WS
.5 RT/WS
1210.17-05
X6820
2 X6130
Y6130
IDLE SPEED
CONTROL VALVE
3 1 X6130
1 X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2 X6101
1 X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2 X6103
1 X6105
Y6105
CYL. 5 FUEL
INJECTION VALVE
2 X6105
1 X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2 X6120
1 X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2 X6102
1 X6104
Y6104
CYL. 4 FUEL
INJECTION
VALVE
2 X6104
1 X6106
Y6106
CYL. 6 FUEL
INJECTION VALVE
2 X6106
.5 WS/ GE
.5 WS/ GN
.5 BR
.75 BR/WS
.75 BR/RT
.75 BR/GE
.75 BR/BL
.75 BR/GN
.75 BR/VI
53
27
68
6
5
22
24
33
23
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31


HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
15 R
1 X209
2.5 GN
7 X33
2.5 GN
X203
2.5 GN
21
2.5 GN
X6832
4 GN
X6830
POWER DISTRIBUTION 0670.2
.5 GN
49 X6000
A6000
ENGINE CONTROL MODULE (DME)
14 39 10 X6000
.5 GR/BR
X8038
2.5 GN .5 GR .5 GR/BR .5 GR/BR .5 BR/RT .5 BR/GE .5 BR/VI
1 2 X6205
4 3 2 1 X6256
B6205
INTAKE AIR TEMPERATURE SENSOR
B6236
ENGINE COOLANT TEMPERATURE SENSOR
B6232
ENGINE COOLANT TEMPERATURE SENSOR
B6256
DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)
A2w
INSTRUMENT CLUSTER
17 18 X17
.5 BR/GE .5 BR/VI
11 12 X20
.5 BR/GE .5 BR/VI
X8071 X8051

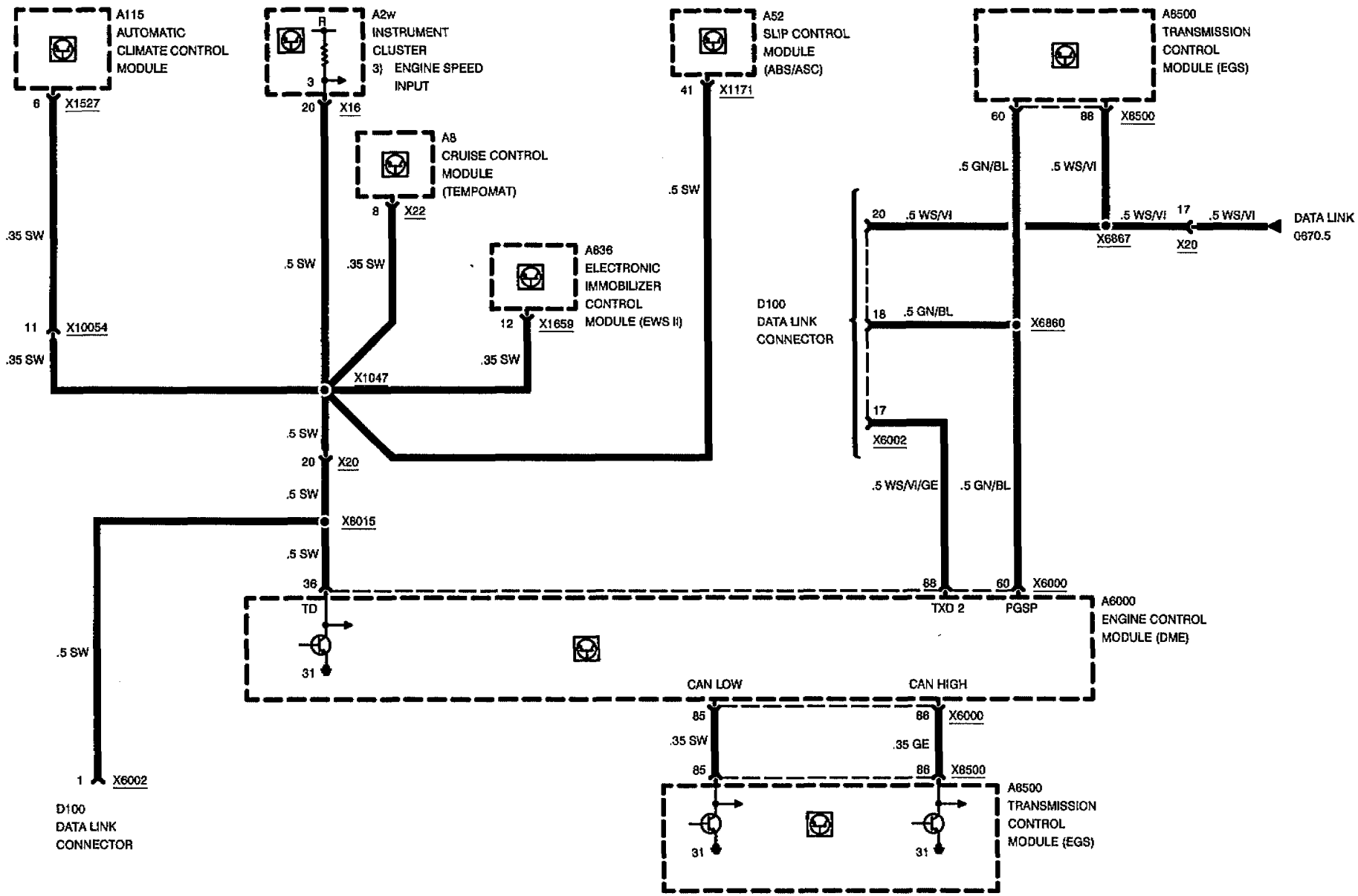

2.5 GN
1
X6150
2.5 GN
X6831
1 GN
3
X6151
T6151
CYL. 1 IGNITION COIL
1
2
X6151
1 BR
GROUND DISTRIBUTION 0670.4
X6456
1 GN
3
X6152
T6152
CYL. 2 IGNITION COIL
2
1
X6152
1 BR
1 GN
3
X6153
T6153
CYL. 3 IGNITION COIL
1
2
X6153
1 BR
GROUND DISTRIBUTION 0670.4
X6456
1 GN
3
X6154
T6154
CYL. 4 IGNITION COIL
2
1
X6154
1 BR
1 GN
3
X6155
T6155
CYL. 5 IGNITION COIL
1
2
X6155
1 BR
GROUND DISTRIBUTION 0670.4
X6456
1 GN
3
X6156
T6156
CYL. 6 IGNITION COIL
2
1
X6156
1 BR
1 SW/WS
4
1 SW/RT
9
1 SW/GE
7
1 SW/BL
6
1 SW/GN
3
1 SW/VI
10
X6150
W6165
SHIELD UP TO 10mm BEFORE IGNITION COIL CONNECTOR
GROUND DISTRIBUTION 0670.4
X6454
1.5 SW/WS
29
1.5 SW/RT
1
1.5 SW/GE
30
1.5 SW/BL
2
1.5 SW/GN
31
1.5 SW/VI
3
X6000
A6000 ENGINE CONTROL MODULE (DME)
31
31
31
31
31
31

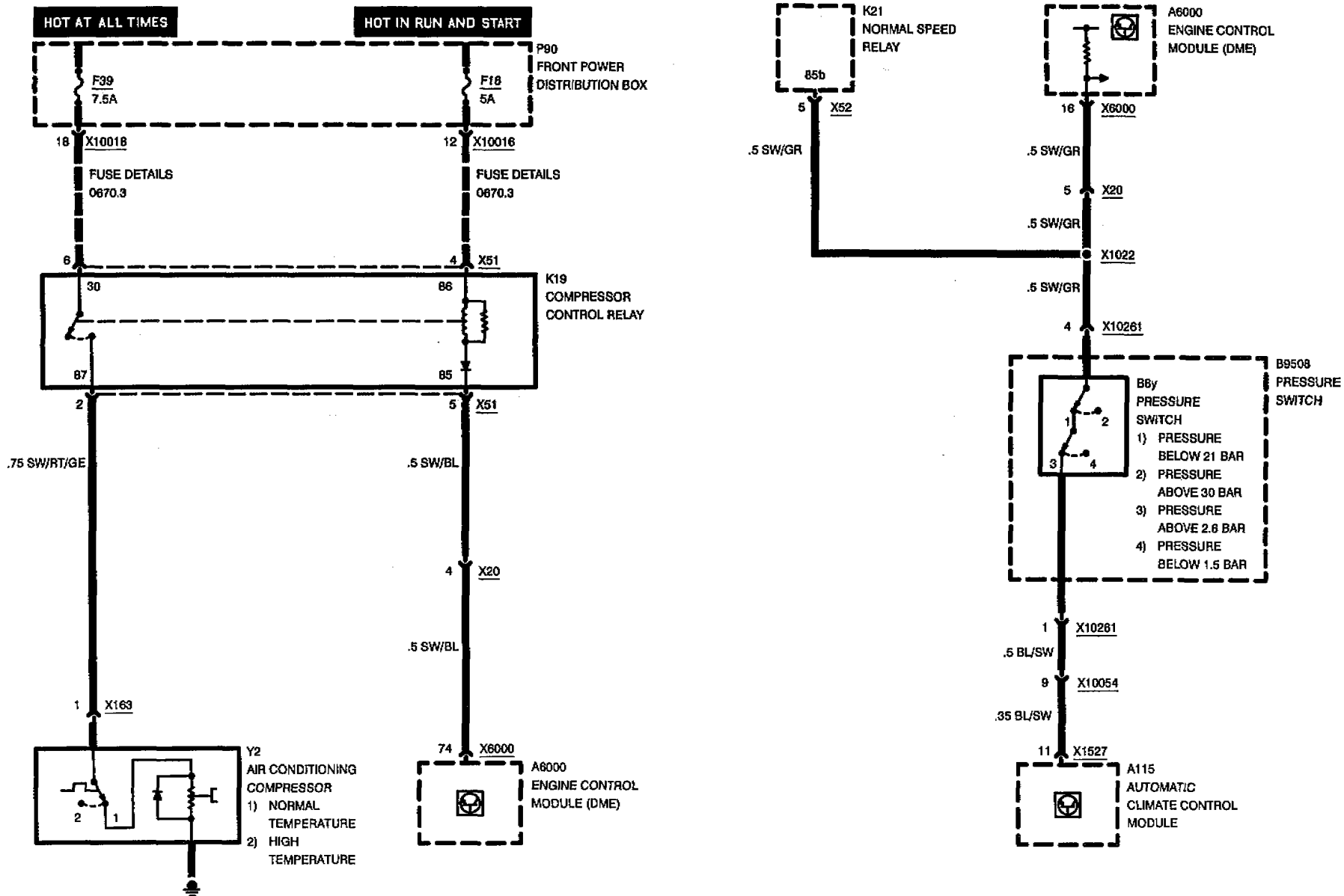

1210.17-00
G
1.5 RT
6
30
87
2
1.5 GN/VI
1.5 GN/VI
13
X20
1.5 GN/VI
HOT IN RUN AND START
15
X10016
F16
15A
P90
FRONT POWER
DISTRIBUTION BOX
16
X10016
FUSE DETAILS
0670.3
2
X638
M2
FUEL PUMP
1
X638
GROUND
DISTRIBUTION
0670.4
X13006
1210.17-00
C
.5 RT/WS
8
X6301
K6301
CYL. 1–6 FUEL
PUMP RELAY
4
X6301
.5 BR/GN
1 RT/
WS
8
X20
1 RT/
WS/
GE
2
X14
.5 RT/
WS/
GE
X2152
.5 RT/WS/GE
M
1210.17-10
.5 RT/
WS/
GE
2
X13172
Y198
EXHAUST GAS
FLAP VALVE
1
X13172
.5 GR/VI
1
X14
.5 GR/VI
3
X20
.5 GR/VI
69
52
1210.17-00
A
2.5 RT/WS
.5 RT/WS
X6822 (PARTIAL)
1210.17-05
.5 RT/WS
3
X62101
B62101
OXYGEN SENSOR I
(IN FRONT OF
CATALYTIC
CONVERTER)
1
4
2
X62101
.5 BR
25
.5 GE
75
.5 SW
67
.5 RT/WS
3
X62201
B62201
OXYGEN SENSOR
II (IN FRONT OF
CATALYTIC
CONVERTER)
1
4
2
X62201
.5 BR
55
.5 GE
76
.5 SW
70
.5 RT/WS
3
X62102
B62102
OXYGEN SENSOR I
(BEHIND
CATALYTIC
CONVERTER)
1
4
2
X62102
.5 BR
79
.5 GE
77
.5 SW
71
.5 RT/WS
3
X62202
B62202
OXYGEN SENSOR
II (BEHIND
CATALYTIC
CONVERTER)
1
4
2
X62202
.5 BR
61
.5 GE
78
.5 SW
72
X6000
A6000
ENGINE CONTROL
MODULE (DME)

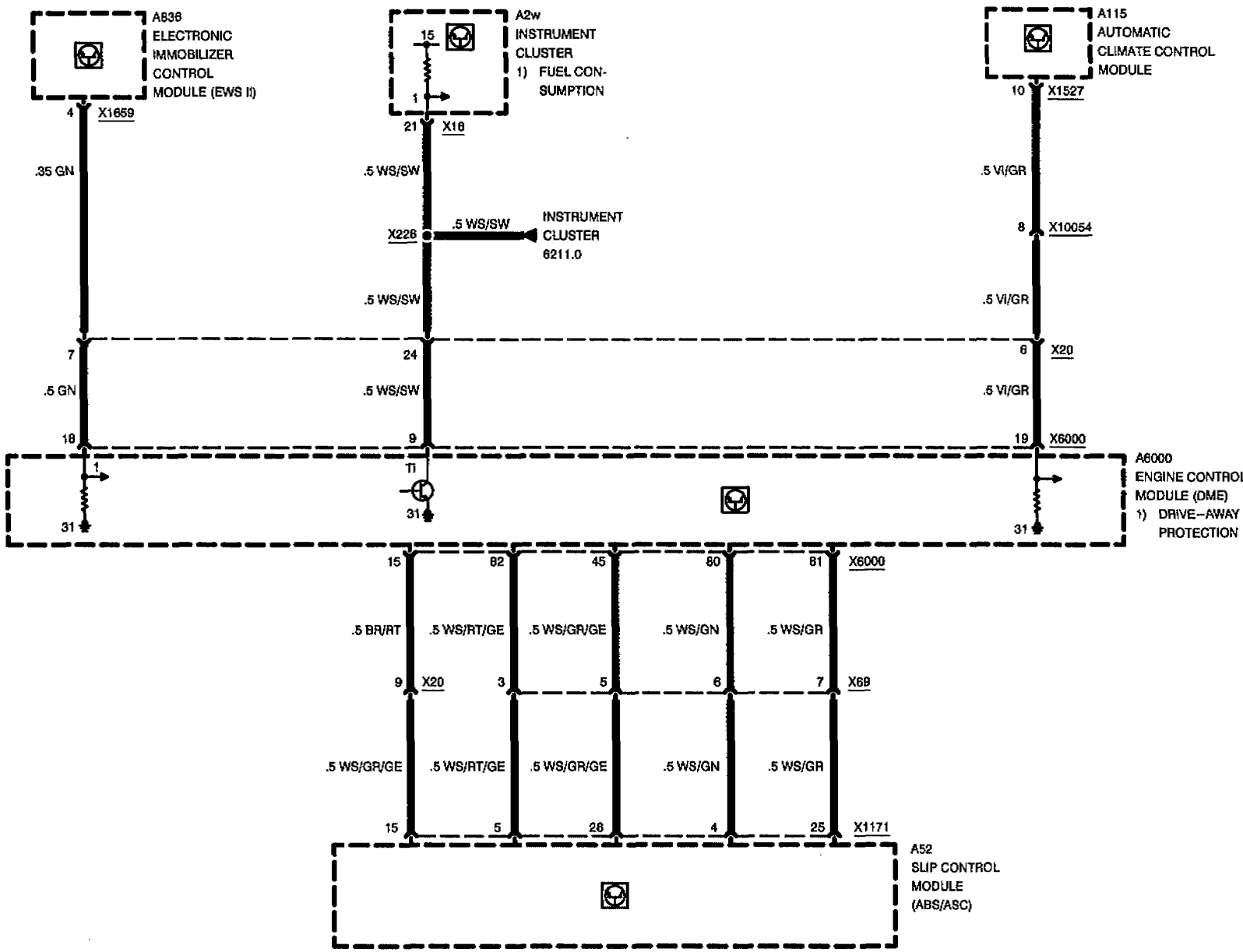

1210.17-04
1210.17-01
1210.17-04
HOT AT ALL TIMES
X7163
B+ DISTRIBUTOR
30
POWER DISTRIBUTION 0670.2
X6822 (PARTIAL)
.5 RT/WS
3 X6207
B6207
HOT FILM AIR MASS METER
1 2 4 X6207
.5 GE
.5 SW
8 7
.5 RT/WS
1 X6275
Y6275
VARIABLE CAM-SHAFT CONTROL VALVE 1
2 X6275
.5 GN/BL
21
.5 RT/WS
2 X6163
Y6163
SECONDARY AIR PUMP VALVE
1 X6163
.5 BR/WS
62
.5 RT/WS
1 X6550
Y6550
SOLENOID VALVE ("RUNNING LOSSES")
2 X6550
.5 GE/BL
50
.5 RT/WS
8 2 X6304
K6304
SECONDARY AIR PUMP RELAY
4 6 5 X6304
.5 BR/GN
35 X6000
4 RT/GE
X6823
A6000
ENGINE CONTROL MODULE (DME)
5V (15)
31
32 34 4 28 42 12 44 X6000
2.5 BR
2.5 BR
2.5 BR
.5 BR
.5 SW
.5 RT/GN
X6000
.5 RT/GN
1210.17-10
.5 RT/GN
1 2 3 X6252
R6252
THROTTLE POSITION SENSOR
4 RT/GE
1 X6133
Y6133
AIR PUMP
2 X6133
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X6454
X6454

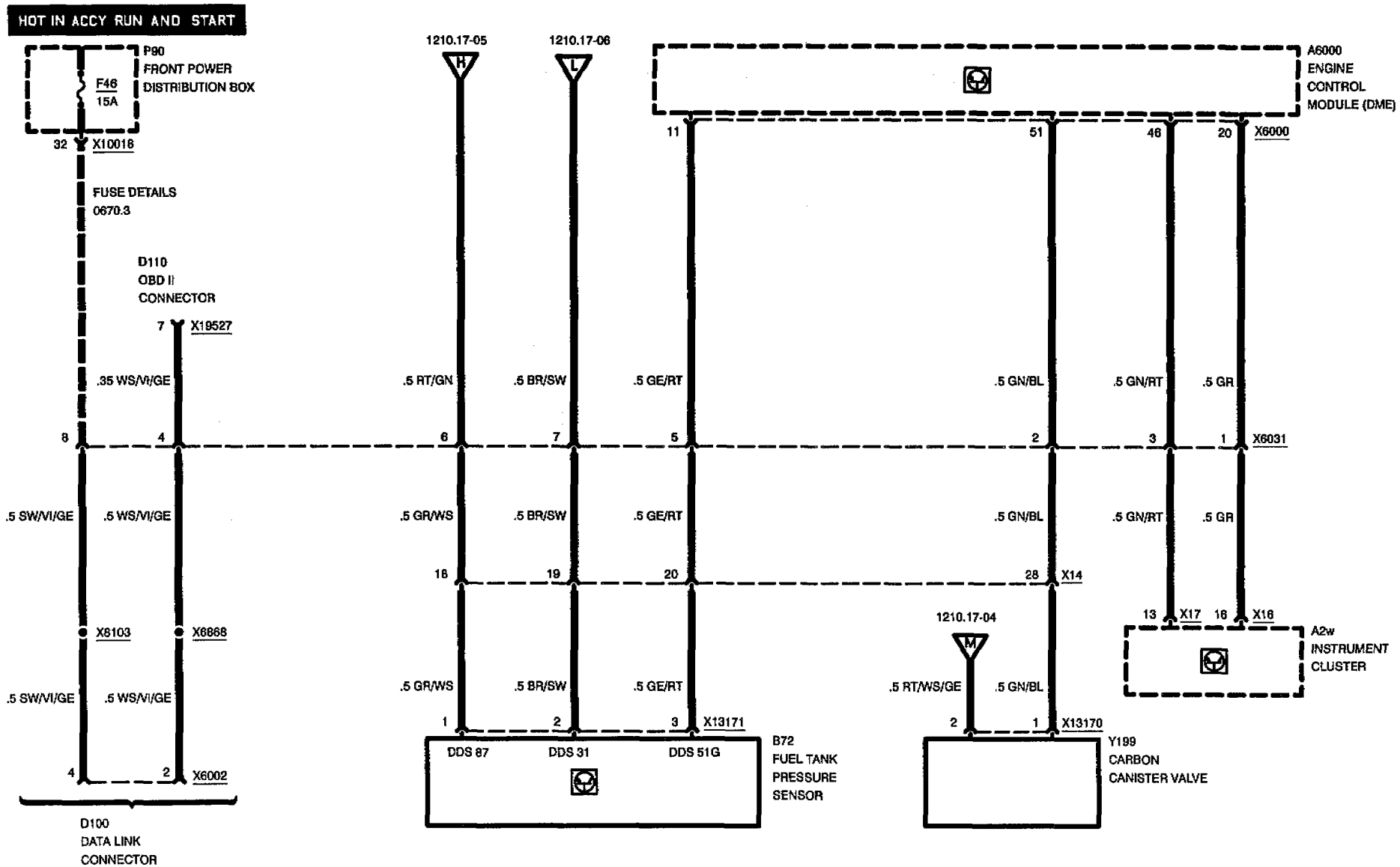

A6000
ENGINE CONTROL
MODULE (DME)
57
.5 GE
58
.5 SW
59
.5 GN
63
.5 BR
38
W9110
SHIELD
1
2
3
4
X6240
B6240
KNOCK SENSOR
CYL. 1–3
CYL. 4–6
64
.35 SW
43
.35 BR
65
.35 GE
41
W6204
SHIELD UP TO
10mm BEFORE
CAMSHAFT
POSITION SENSOR
(CYLINDER IDEN-
TIFICATION)
2
3
1
X6204
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER IDEN-
TIFICATION)
83
.35 SW
48
.5 GE
40
.75 BR/SW
X6475
.5 BR/SW
1210.17-10
W6203
CRANKSHAFT
POSITION/RPM
SENSOR SHIELD
.35 BR
GROUND
DISTRIBUTION
0670.4
X6454
2
1
3
X6203
B6203
CRANKSHAFT
POSITION/RPM
SENSOR

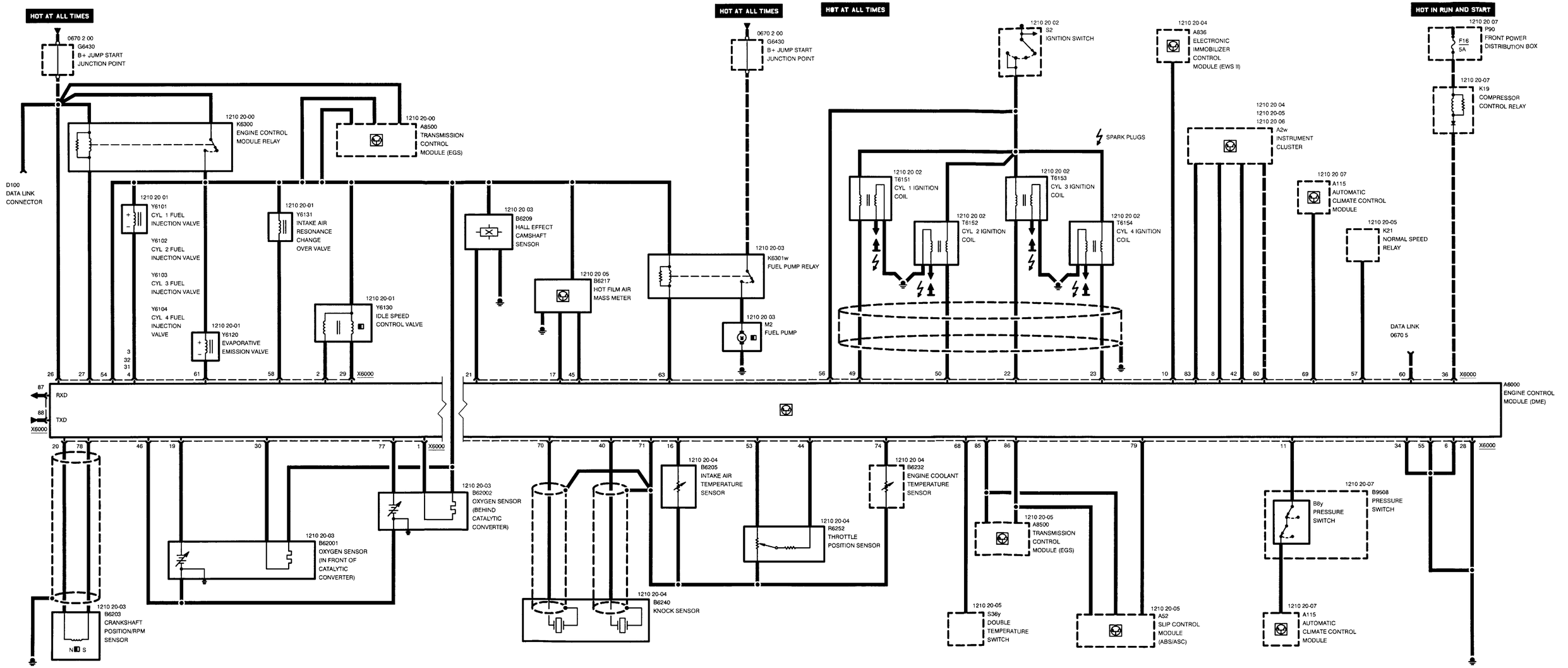
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52) 328i

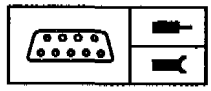



HOT AT ALL TIMES
HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F39
7.5A
F18
5A
18 X10018
12 X10016
FUSE DETAILS
0670.3
FUSE DETAILS
0670.3
6
4 X51
K19
COMPRESSOR
CONTROL RELAY
30
86
87
85
2
5 X51
.75 SW/RT/GE
.5 SW/BL
4 X20
.5 SW/BL
1 X163
74 X6000
Y2
AIR CONDITIONING
COMPRESSOR
1) NORMAL
TEMPERATURE
2) HIGH
TEMPERATURE
A6000
ENGINE CONTROL
MODULE (DME)
K21
NORMAL SPEED
RELAY
85b
5 X52
.5 SW/GR
A6000
ENGINE CONTROL
MODULE (DME)
16 X6000
.5 SW/GR
5 X20
.5 SW/GR
X1022
.5 SW/GR
4 X10261
B9508
PRESSURE
SWITCH
B8y
PRESSURE
SWITCH
1) PRESSURE
BELOW 21 BAR
2) PRESSURE
ABOVE 30 BAR
3) PRESSURE
ABOVE 2.6 BAR
4) PRESSURE
BELOW 1.5 BAR
1 X10261
.5 BL/SW
9 X10054
.35 BL/SW
11 X1527
A115
AUTOMATIC
CLIMATE CONTROL
MODULE


A836
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)
4
X1659
.35 GN
7
.5 GN
18
A2w
INSTRUMENT CLUSTER
1) FUEL CONSUMPTION
15
1
21
X18
.5 WS/SW
.5 WS/SW
X228
.5 WS/SW
INSTRUMENT CLUSTER 6211.0
.5 WS/SW
24
.5 WS/SW
9
A115
AUTOMATIC CLIMATE CONTROL MODULE
10
X1527
.5 Vi/GR
8
X10054
.5 Vi/GR
6
X20
.5 Vi/GR
19
X6000
A6000
ENGINE CONTROL MODULE (DME)
1) DRIVE–AWAY PROTECTION
1
31
TI
31
31
15
82
45
80
81
X6000
.5 BR/RT
.5 WS/RT/GE
.5 WS/GR/GE
.5 WS/GN
.5 WS/GR
9
X20
3
5
6
7
X69
.5 WS/GR/GE
.5 WS/RT/GE
.5 WS/GR/GE
.5 WS/GN
.5 WS/GR
15
5
28
4
25
X1171
A52
SLIP CONTROL MODULE (ABS/ASC)


HOT IN ACCY RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F46
15A
32
X10018
FUSE DETAILS
0670.3
D110
OBD II
CONNECTOR
7
X19527
.35 WS/VI/GE
8
4
.5 SW/VI/GE
.5 WS/VI/GE
X6103
X6868
.5 SW/VI/GE
.5 WS/VI/GE
4
2
X6002
D100
DATA LINK
CONNECTOR
1210.17-05
H
1210.17-06
L
.5 RT/GN
.5 BR/SW
.5 GE/RT
6
7
5
.5 GR/WS
.5 BR/SW
.5 GE/RT
18
19
20
.5 GR/WS
.5 BR/SW
.5 GE/RT
1
2
3
X13171
DDS 87
DDS 31
DDS 51G
B72
FUEL TANK
PRESSURE
SENSOR
A6000
ENGINE
CONTROL
MODULE (DME)
11
51
48
20
X6000
.5 GN/BL
.5 GN/RT
.5 GR
2
3
1
X6031
.5 GN/BL
.5 GN/RT
.5 GR
28
X14
1210.17-04
M
.5 RT/WS/GE
.5 GN/BL
2
1
X13170
Y199
CARBON
CANISTER VALVE
13
X17
16
X16
A2w
INSTRUMENT
CLUSTER


HOT AT ALL TIMES
0670 2 00
G6430
B+ JUMP START
JUNCTION POINT
1210 20-00
K6300
ENGINE CONTROL
MODULE RELAY
1210 20-00
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
D100
DATA LINK
CONNECTOR
1210 20 01
Y6101
CYL 1 FUEL
INJECTION VALVE
Y6102
CYL 2 FUEL
INJECTION VALVE
Y6103
CYL 3 FUEL
INJECTION VALVE
Y6104
CYL 4 FUEL
INJECTION
VALVE
1210 20-01
Y6131
INTAKE AIR
RESONANCE
CHANGE
OVER VALVE
1210 20-01
Y6120
EVAPORATIVE
EMISSION VALVE
1210 20-01
Y6130
IDLE SPEED
CONTROL VALVE
1210 20 03
B6209
HALL EFFECT
CAMSHAFT
SENSOR
1210 20 05
B6217
HOT FILM AIR
MASS METER
HOT AT ALL TIMES
0670 2 00
G6430
B+ JUMP START
JUNCTION POINT
1210 20-03
K6301w
FUEL PUMP RELAY
1210 20 03
M2
FUEL PUMP
1210 20 02
S2
IGNITION SWITCH
SPARK PLUGS
1210 20 02
T6151
CYL 1 IGNITION
COIL
1210 20 02
T6152
CYL 2 IGNITION
COIL
1210 20 02
T6153
CYL 3 IGNITION
COIL
1210 20 02
T6154
CYL 4 IGNITION
COIL
1210 20 04
A836
ELECTRONIC
IMMOBILIZER
CONTROL
MODULE (EWS II)
1210 20 04
1210 20-05
1210 20 06
A2w
INSTRUMENT
CLUSTER
1210 20 07
A115
AUTOMATIC
CLIMATE CONTROL
MODULE
1210 20-05
K21
NORMAL SPEED
RELAY
DATA LINK
0670 5
HOT IN RUN AND START
1210 20 07
P90
FRONT POWER
DISTRIBUTION BOX
F16
5A
1210 20-07
K19
COMPRESSOR
CONTROL RELAY
X6000
RXD
TXD
A6000
ENGINE CONTROL
MODULE (DME)
1210 20-03
B62002
OXYGEN SENSOR
(BEHIND
CATALYTIC
CONVERTER)
1210 20-03
B62001
OXYGEN SENSOR
(IN FRONT OF
CATALYTIC
CONVERTER)
1210 20-03
B6203
CRANKSHAFT
POSITION/RPM
SENSOR
N S
1210 20-04
B6205
INTAKE AIR
TEMPERATURE
SENSOR
1210 20-04
B6240
KNOCK SENSOR
1210 20-04
R6252
THROTTLE
POSITION SENSOR
1210 20 04
B6232
ENGINE COOLANT
TEMPERATURE
SENSOR
1210 20-05
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
1210 20-05
S36y
DOUBLE
TEMPERATURE
SWITCH
1210 20-05
A52
SLIP CONTROL
MODULE
(ABS/ASC)
1210 20-07
B8y
PRESSURE
SWITCH
1210 20-07
B9508
PRESSURE
SWITCH
1210 20-07
A115
AUTOMATIC
CLIMATE CONTROL
MODULE

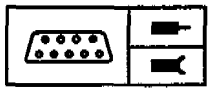


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
2	A	Activate valve	Idle speed control valve
3	A	Activate valve	Cyl. 1 fuel injection valve
4	A	Activate valve	Cyl. 4 fuel injection valve
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10	E	Drive away protection signal	Electronic immobilizer control module (EWS II)
11	E	Activate A/C	Pressure switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16	E	Intake air temperature	Intake air temperature sensor
17	M	Ground	Hot film air mass meter
18		Not used	
19	E	Oxygen sensor signal	Oxygen sensor (in front of catalytic converter)
20	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
21	E	Camshaft position	Hall effect camshaft sensor
22	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24		Not used	
25		Not used	
26	E	Battery voltage	B+ jump start junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

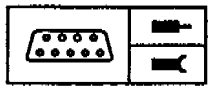
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
31	A	Activate valve	Cyl. 3 fuel injection valve
32	A	Activate valve	Cyl. 2 fuel injection valve
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	A/C compressor cut-out	Compressor control relay
37		Not used	
38		Not used	
39		Not used	
40	E	Cyl. 3-4 knock sensor	Knock sensor
41		Not used	
42	E	Ti-measurement signal (fuel consumption)	Instrument cluster
43		Not used	
44	E	Throttle position	Throttle position sensor
45	E	Signal input	Hot film air mass meter
46	M	Sensor ground	Oxygen sensors
47		Not used	
48		Not used	
49	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
50	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
51		Not used	
52		Not used	
53	A	Component supply +	Throttle position sensor
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57	A	Activate auxiliary fan	Normal speed relay
58	A	Activate valve	Intake air resonance change over valve

E = Input, A = Output, M = Ground



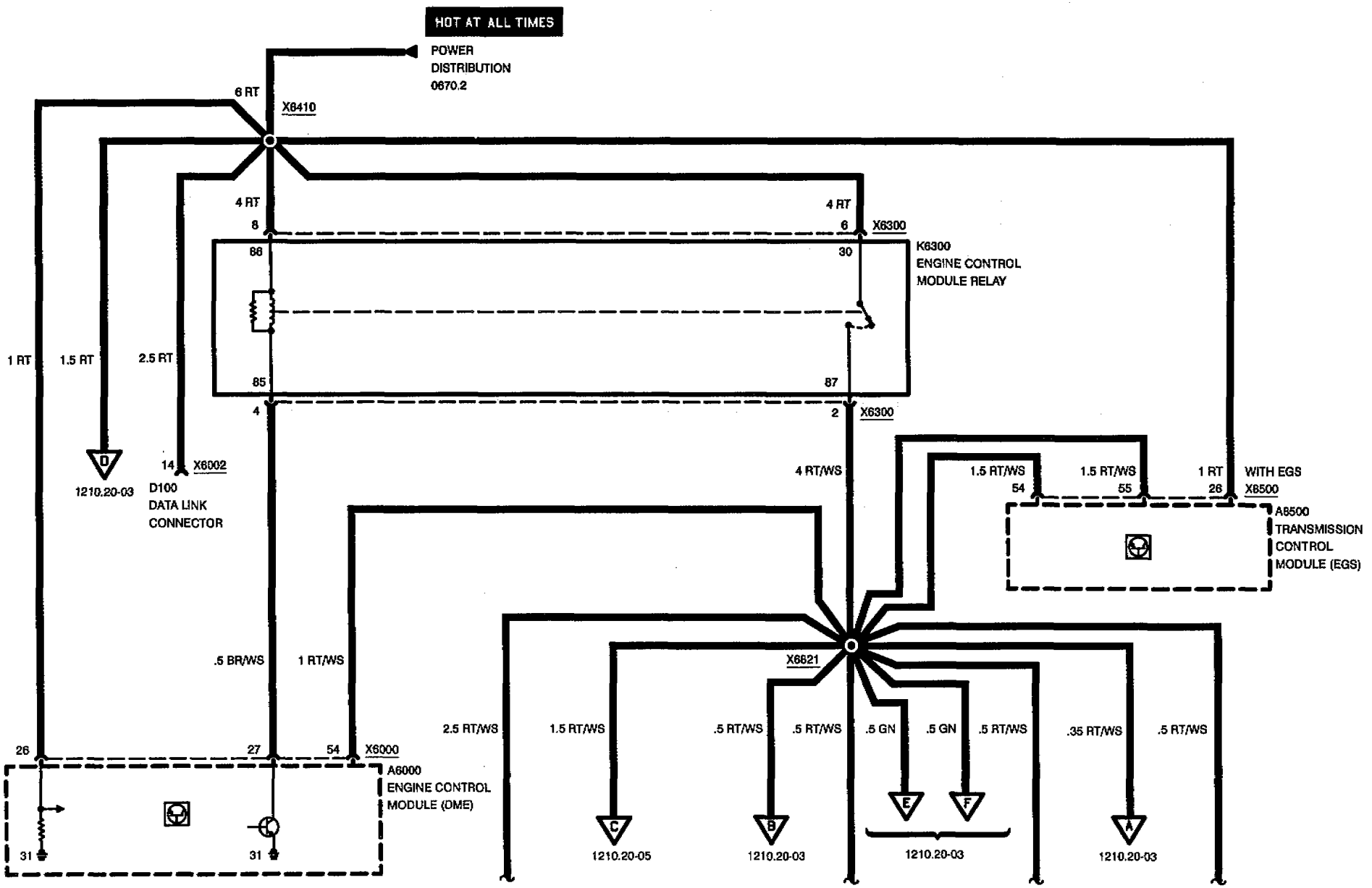
Pin Assignments

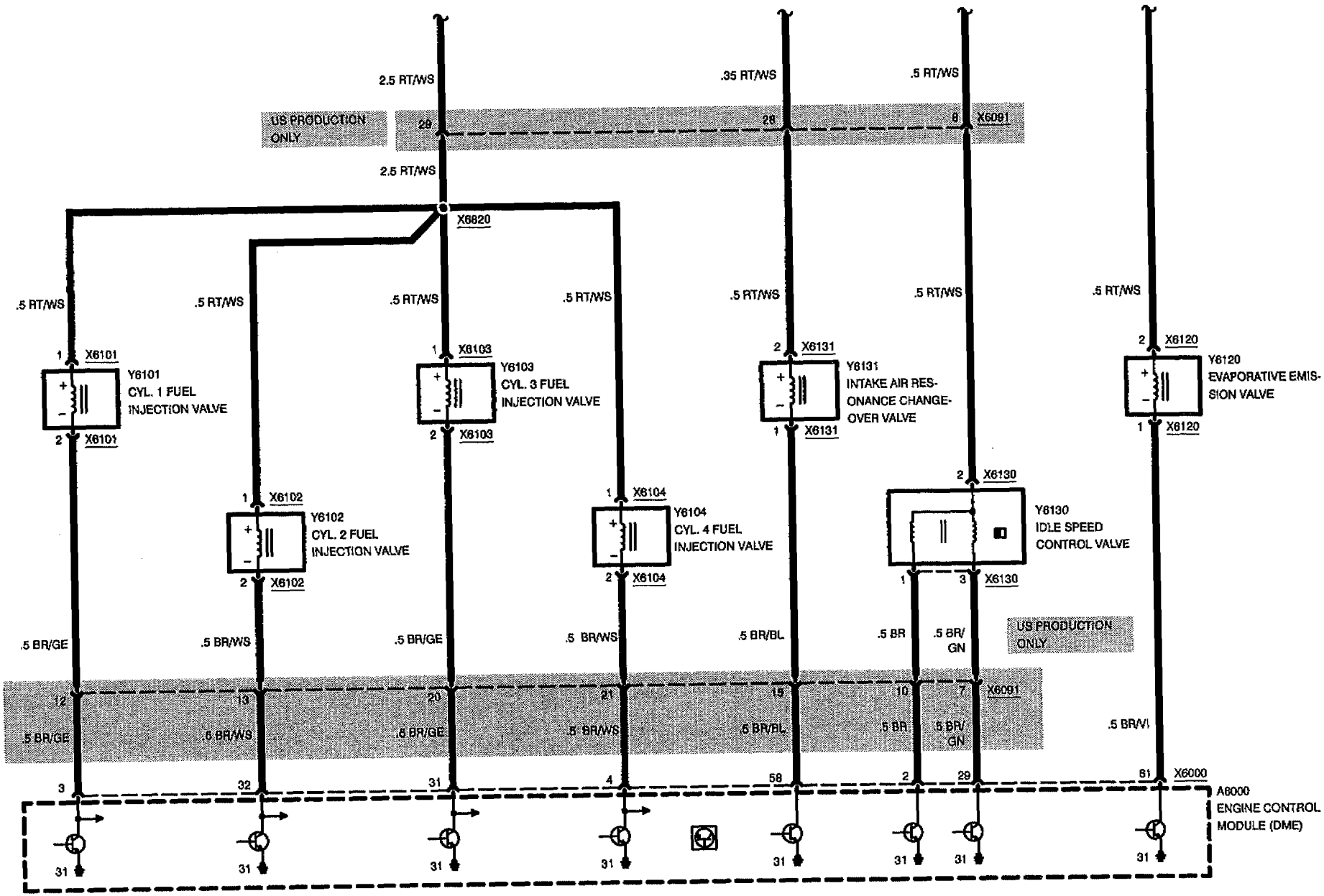
Pin	Type	Description/Function	Connection
59		Not used	
60	E	Programming voltage	Data link connector
61	A	Activate valve	Evaporation emission valve
62		Not used	
63	A	Activate relay	Fuel pump relay
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68	E	Signal above 80°C	Double temperature switch
69	E	Signal A/C on	Air conditioning operating unit
70	E	Cyl 1-2 knock sensor	Knock sensor
71	M	Ground for sensors	Temperature-/ knock-/ throttle position-sensors
72		Not used	
73		Not used	
74	E	Temperature signal	Engine coolant temperature sensor
75		Not used	
76		Not used	
77	E	Oxygen sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
79	E	Speed signal right rear	ABS/ASC control module
80	A	Crankshaft RPM speed signal TD	Instrument cluster
81		Not used	
82		Not used	
83	E	Vehicle speed signal	Instrument cluster
84		Not used	
85	E/A	CAN-LOW	EGS/ASC control module
86	E/A	CAN-HIGH	EGS/ASC control module
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44) — LATE PRODUCTION

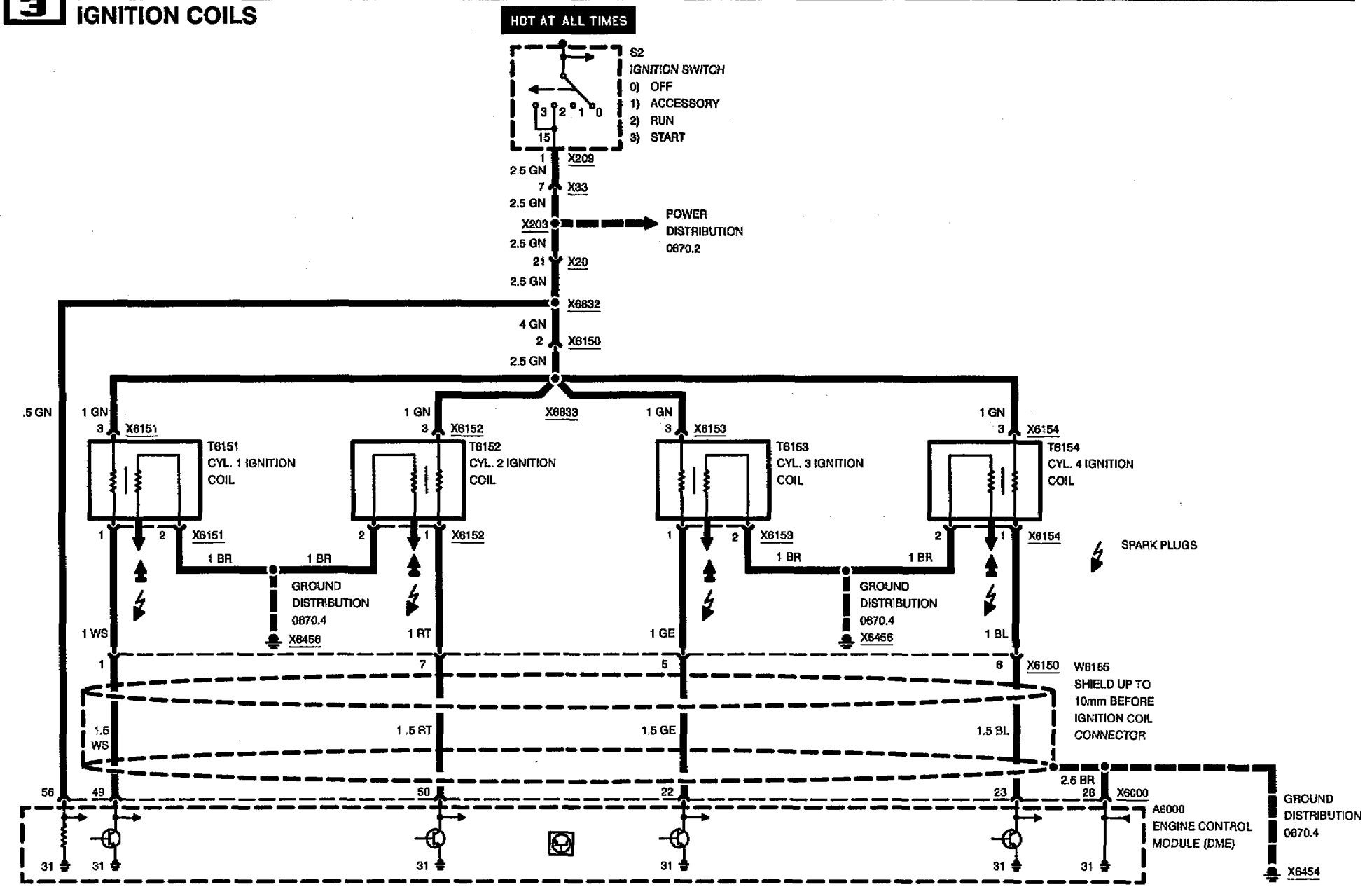
POWER, FUEL INJECTION VALVES




2.5 RT/WS
.35 RT/WS
.5 RT/WS
US PRODUCTION ONLY
26
28
9
X6091
2.5 RT/WS
X6820
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
1
X6101
Y6101
CYL. 1 FUEL INJECTION VALVE
2
X6101
1
X6103
Y6103
CYL. 3 FUEL INJECTION VALVE
2
X6103
2
X6131
Y6131
INTAKE AIR RESONANCE CHANGE-OVER VALVE
1
X6131
2
X6120
Y6120
EVAPORATIVE EMISSION VALVE
1
X6120
1
X6102
Y6102
CYL. 2 FUEL INJECTION VALVE
2
X6102
1
X6104
Y6104
CYL. 4 FUEL INJECTION VALVE
2
X6104
2
X6130
Y6130
IDLE SPEED CONTROL VALVE
1
3
X6130
.5 BR/GE
.5 BR/WS
.5 BR/GE
.5 BR/WS
.5 BR/BL
.5 BR
.5 BR/GN
US PRODUCTION ONLY
12
13
20
21
15
10
7
X6091
.5 BR/GE
.5 BR/WS
.5 BR/GE
.5 BR/WS
.5 BR/BL
.5 BR
.5 BR/GN
.5 BR/VI
3
32
31
4
58
2
29
81
X6000
A6000
ENGINE CONTROL MODULE (DME)
31
31
31
31
31
31
31
31

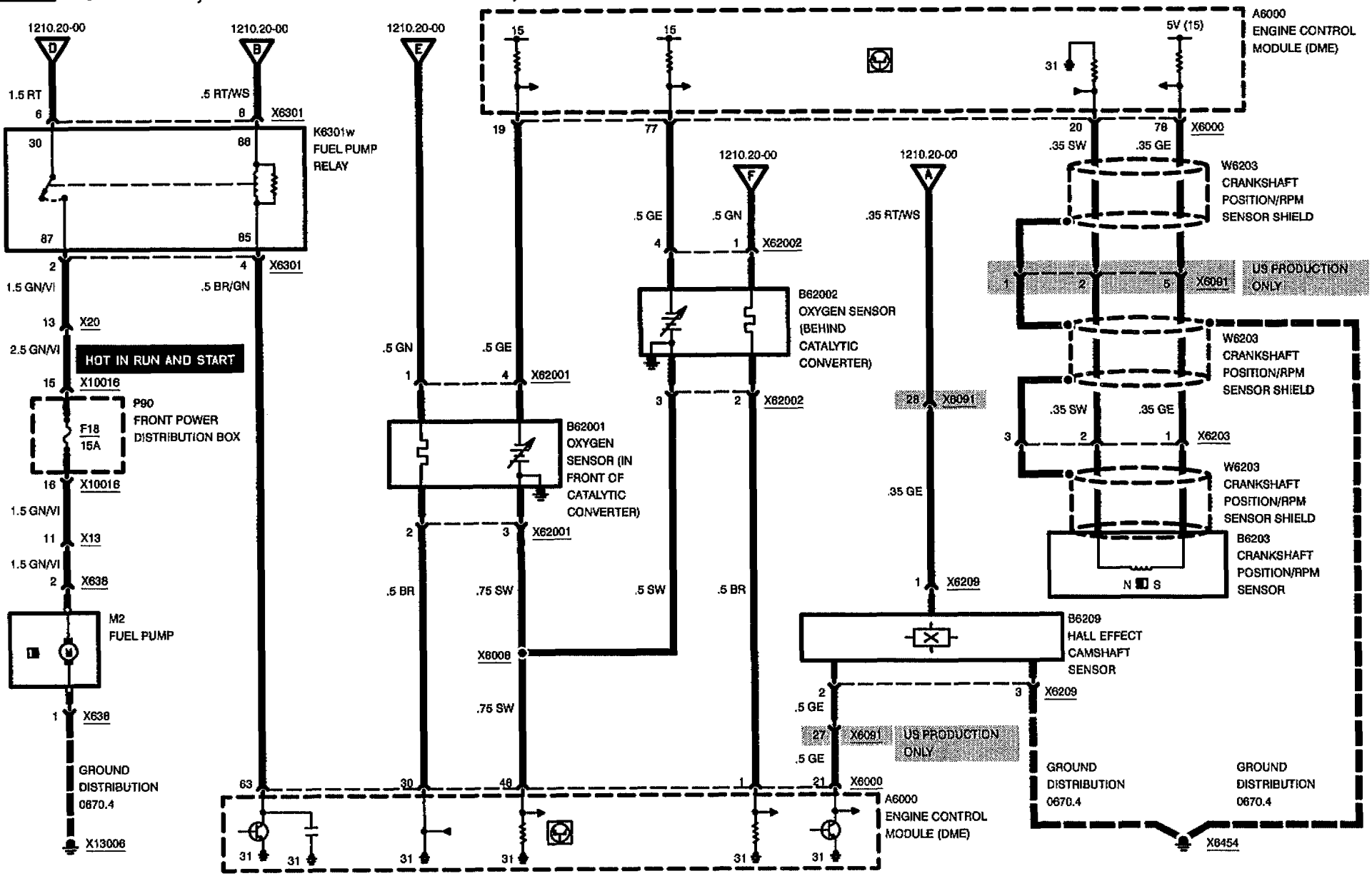
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

IGNITION COILS

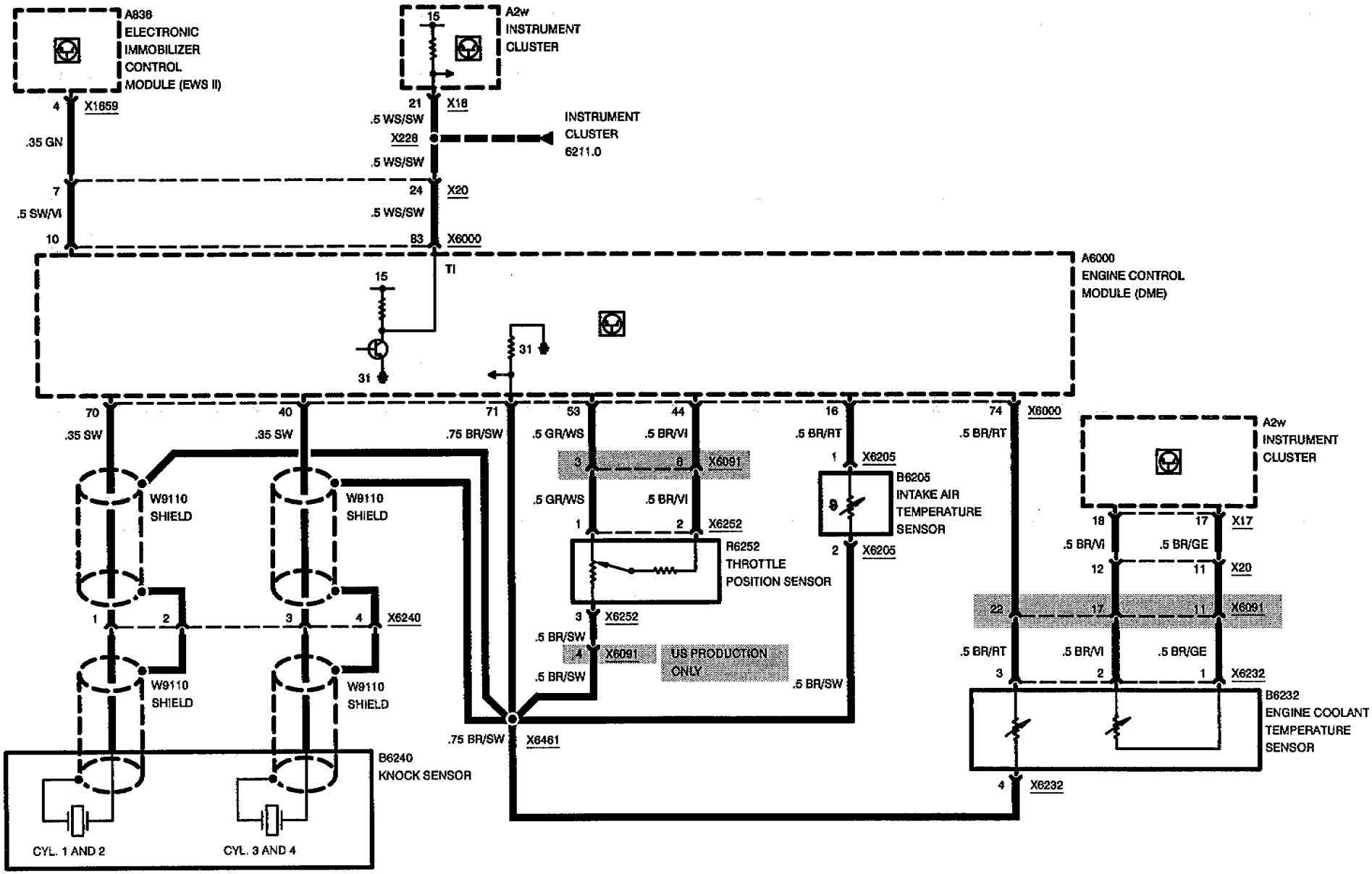


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

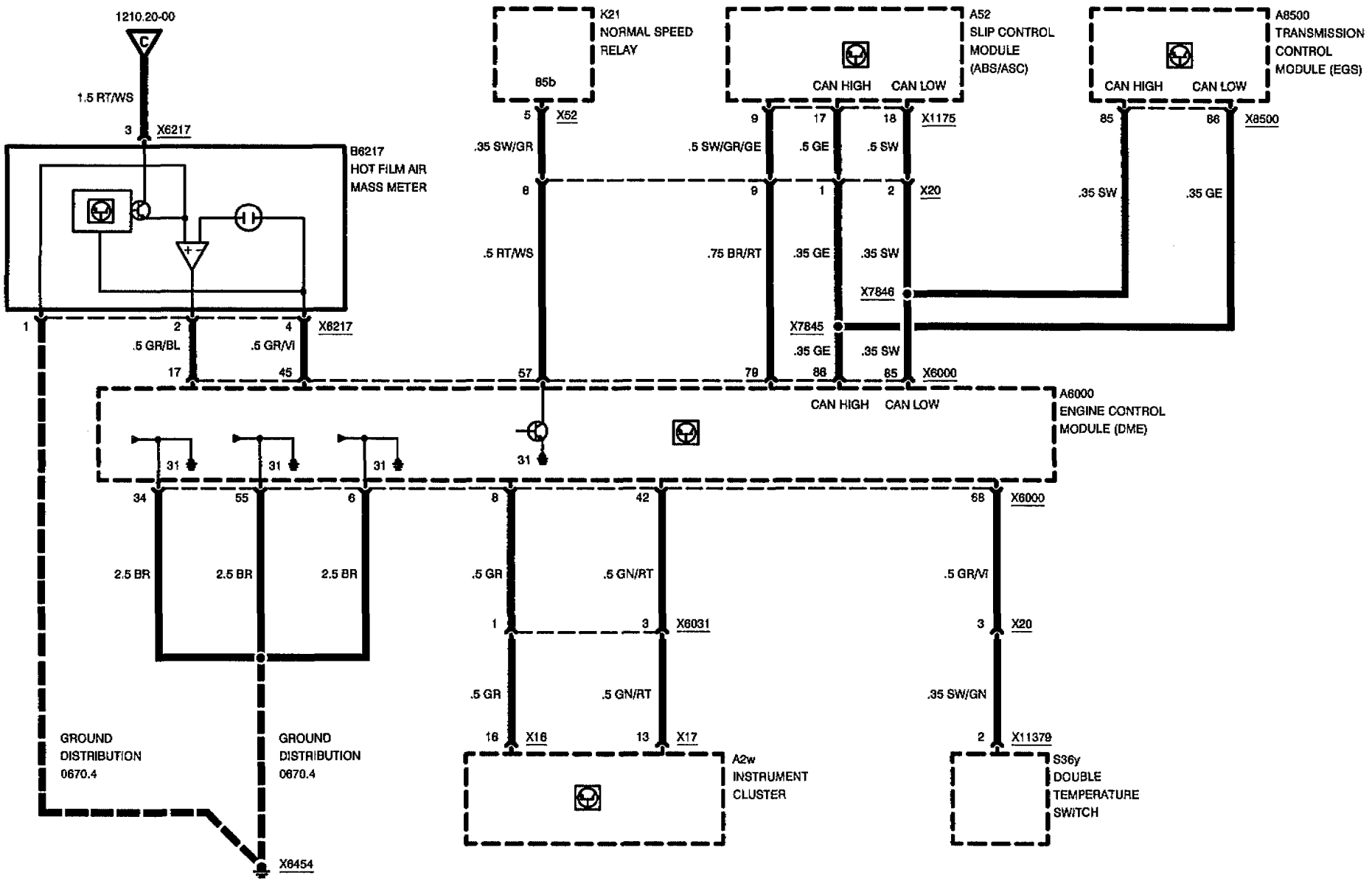
FUEL PUMP, HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

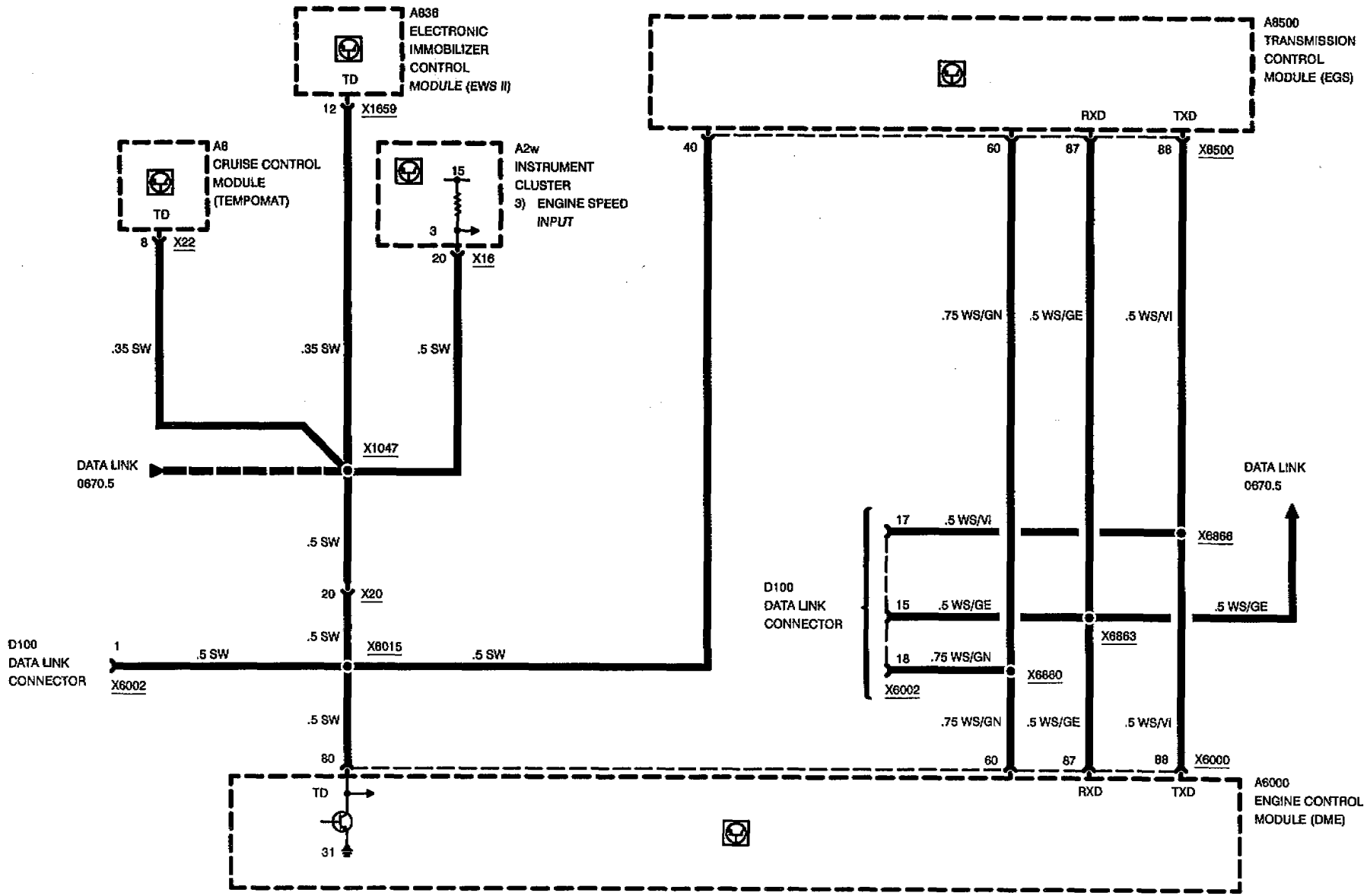


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

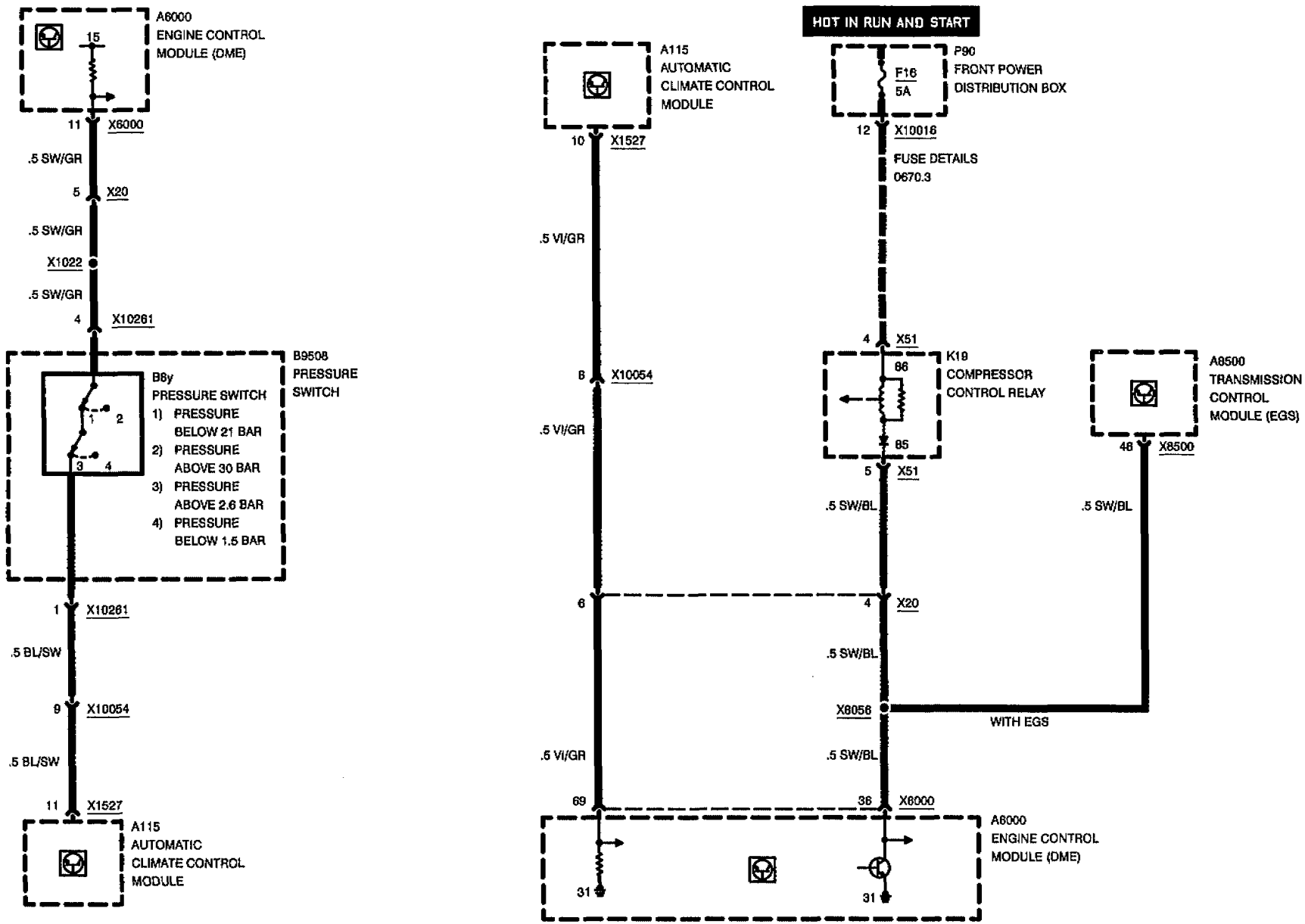


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

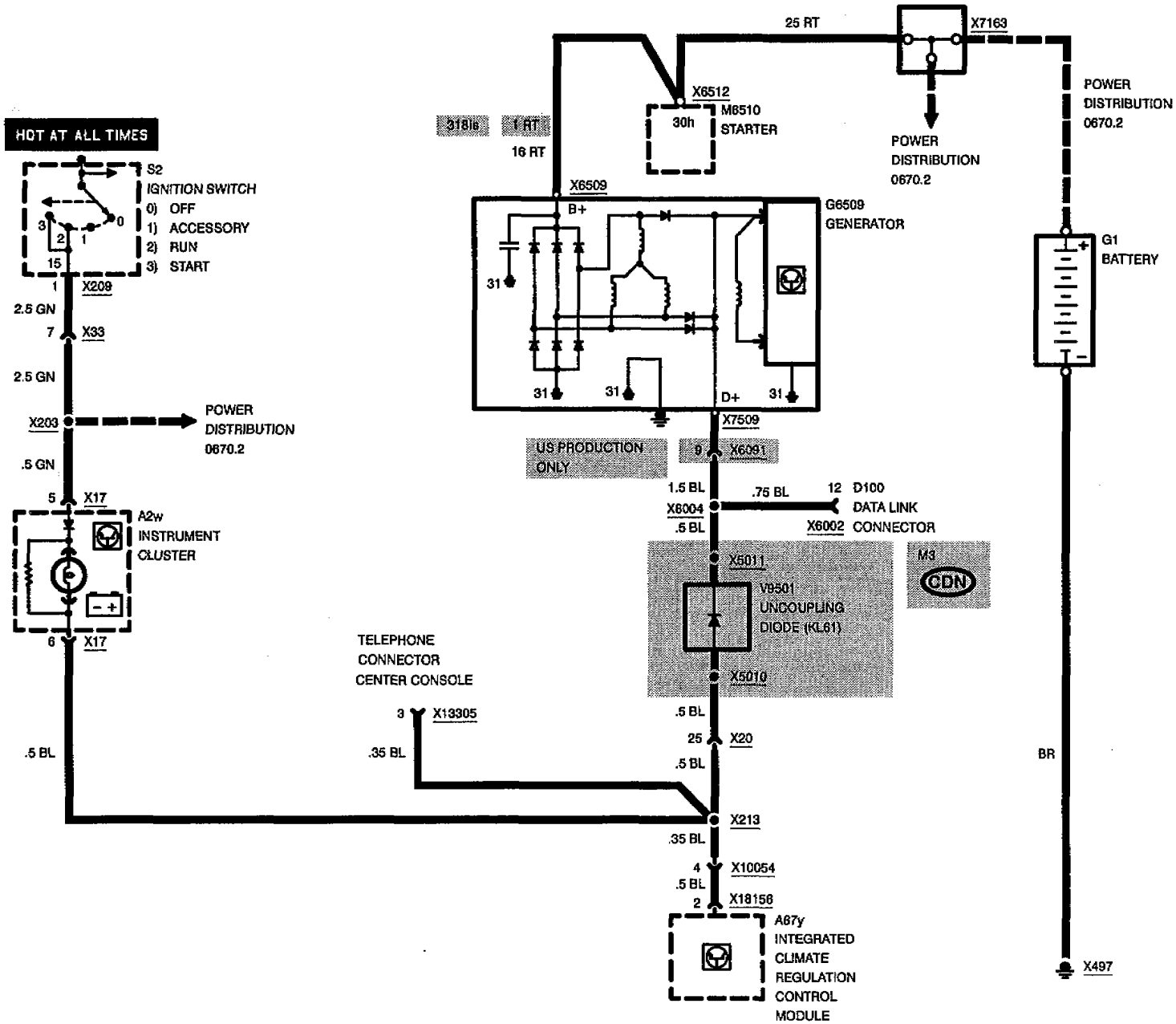
DATA LINK

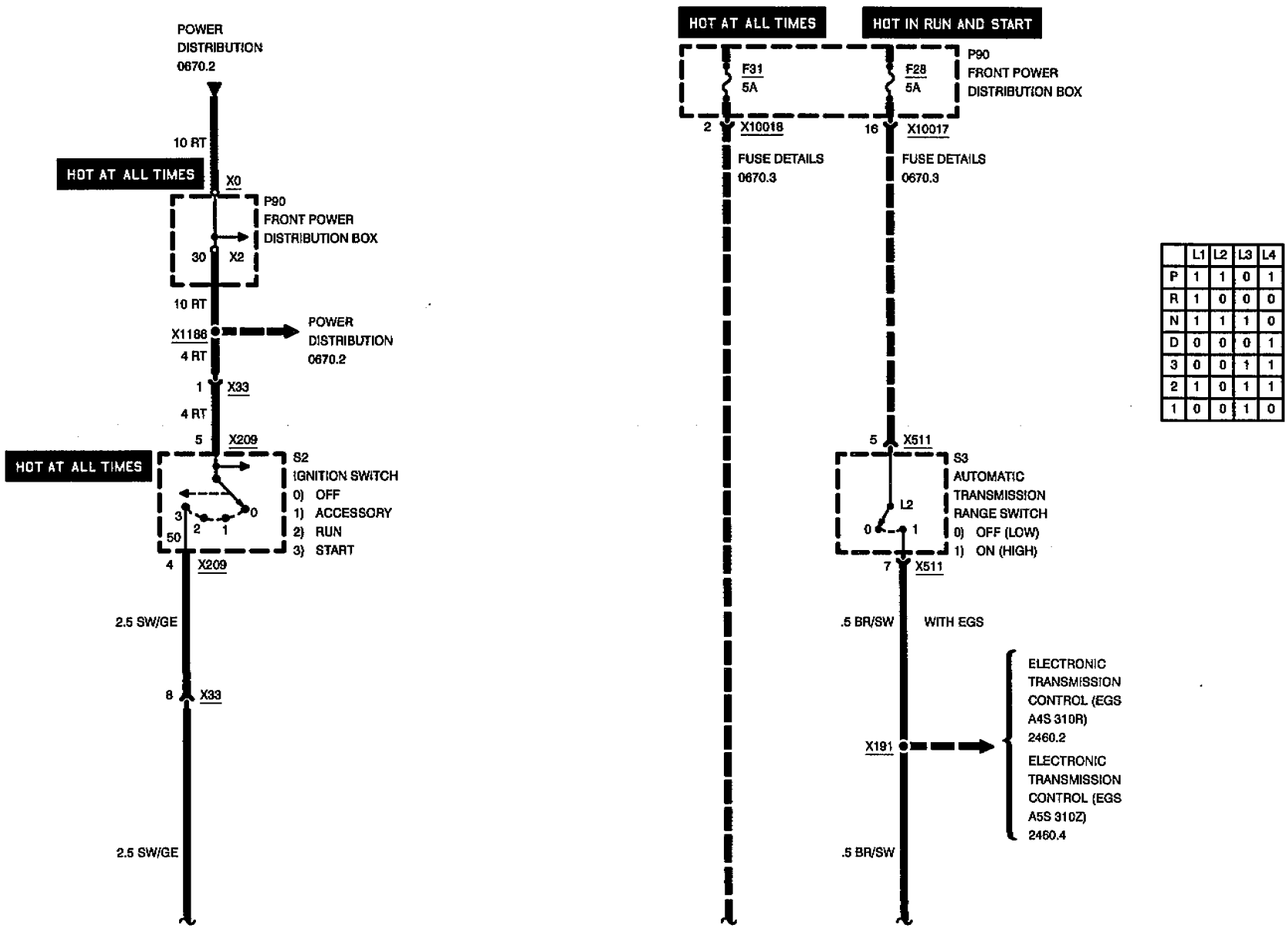


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

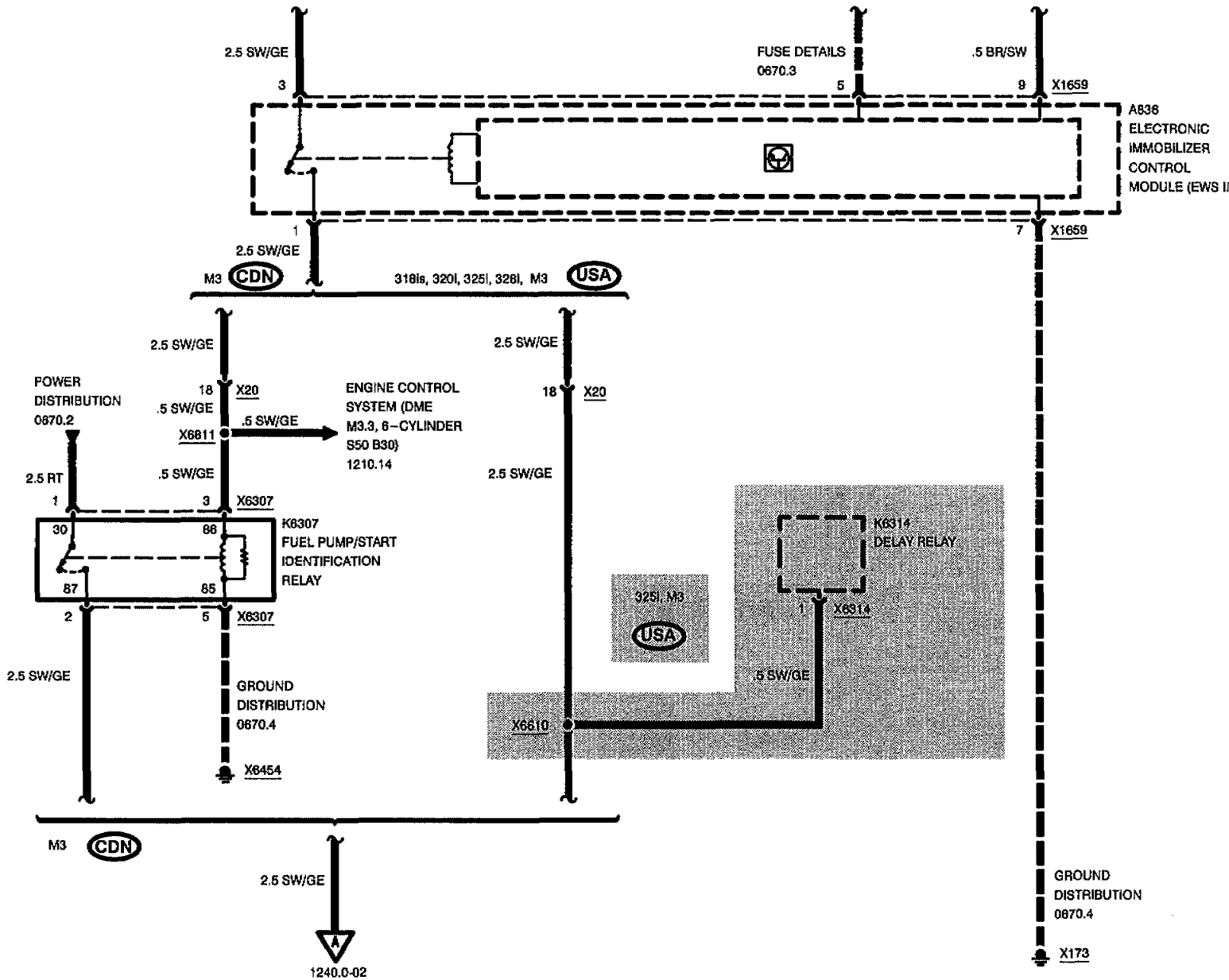


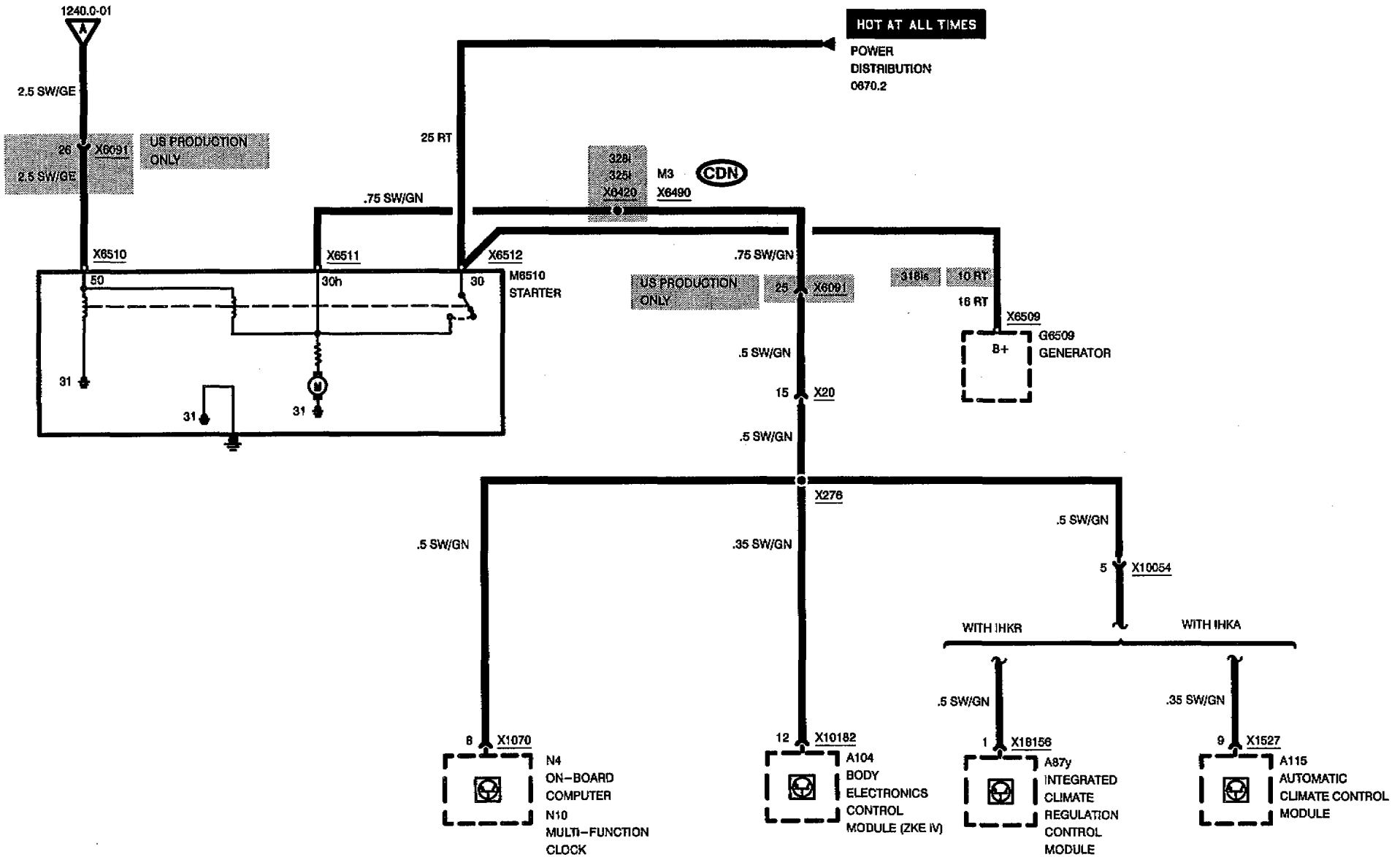
CHARGING SYSTEM





	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

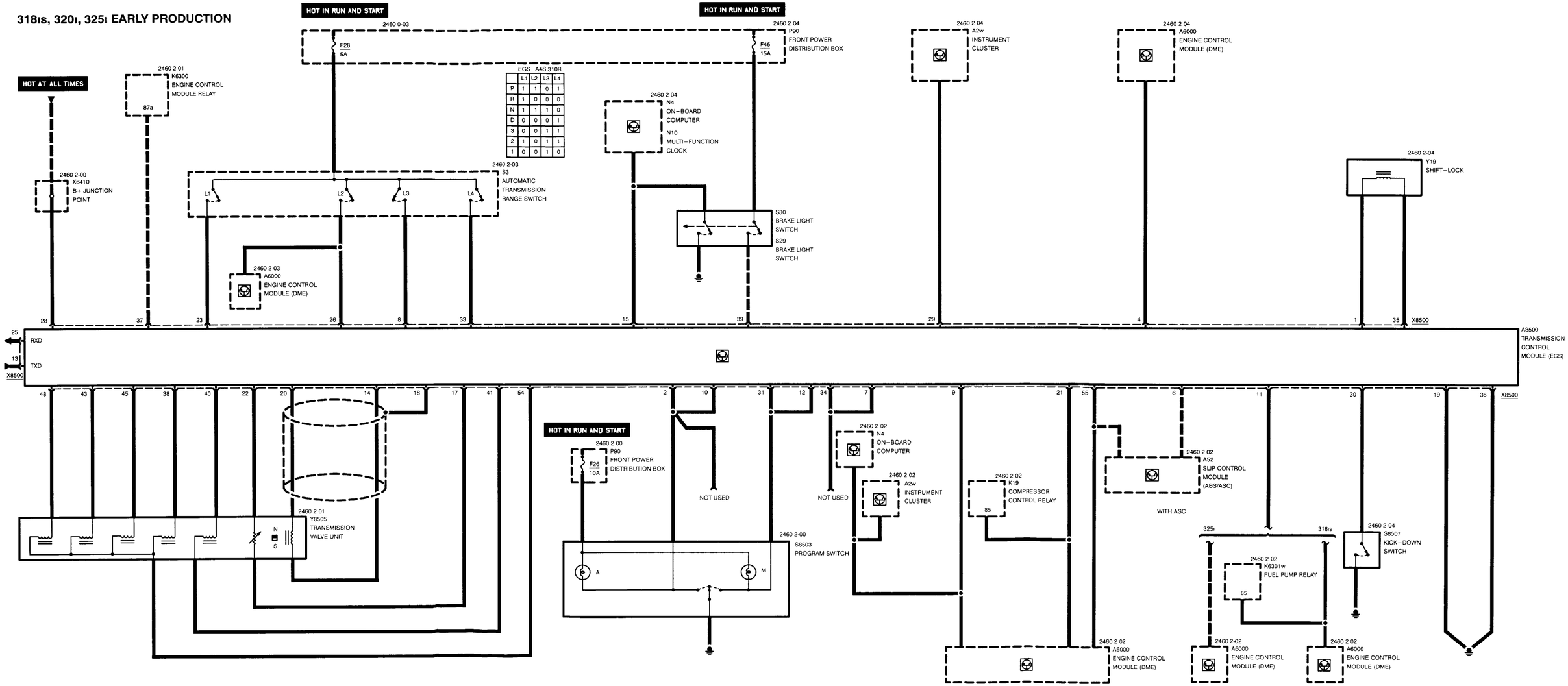

2.5 SW/GE
3
FUSE DETAILS
0670.3
5
.5 BR/SW
9
X1659
A838
ELECTRONIC
IMMOBILIZER
CONTROL
MODULE (EWS II)
1
2.5 SW/GE
7
X1659
M3
CDN
318is, 320i, 325i, 328i, M3
USA
2.5 SW/GE
2.5 SW/GE
POWER
DISTRIBUTION
0670.2
18
X20
.5 SW/GE
ENGINE CONTROL
SYSTEM (DME
M3.3, 6-CYLINDER
S50 B30)
1210.14
X6811
.5 SW/GE
18
X20
2.5 RT
1
.5 SW/GE
3
X6307
2.5 SW/GE
K6307
FUEL PUMP/START
IDENTIFICATION
RELAY
30
86
87
85
K6314
DELAY RELAY
325i, M3
USA
1
X6314
2
5
X6307
.5 SW/GE
2.5 SW/GE
GROUND
DISTRIBUTION
0670.4
X6610
X6454
M3
CDN
2.5 SW/GE
1240.0-02
GROUND
DISTRIBUTION
0670.4
X173


1240.0-01
2.5 SW/GE
26 X6091
2.5 SW/GE
US PRODUCTION ONLY
HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
25 RT
328i 325i X6420
M3 X6490
CDN
.75 SW/GN
X6510
X6511
X6512
50
30h
30
M6510 STARTER
31
31
31
US PRODUCTION ONLY
.75 SW/GN
25 X6091
318is
10 RT
16 RT
X6509
B+
G6509 GENERATOR
.5 SW/GN
15 X20
.5 SW/GN
X276
.5 SW/GN
.35 SW/GN
.5 SW/GN
5 X10054
WITH IHKR
WITH IHKA
.5 SW/GN
.35 SW/GN
8 X1070
N4 ON-BOARD COMPUTER
N10 MULTI-FUNCTION CLOCK
12 X10182
A104 BODY ELECTRONICS CONTROL MODULE (ZKE IV)
1 X18156
A87y INTEGRATED CLIMATE REGULATION CONTROL MODULE
9 X1527
A115 AUTOMATIC CLIMATE CONTROL MODULE

04/97 — 2460 2a — 1996

04/97 — 2460 2a — 1996

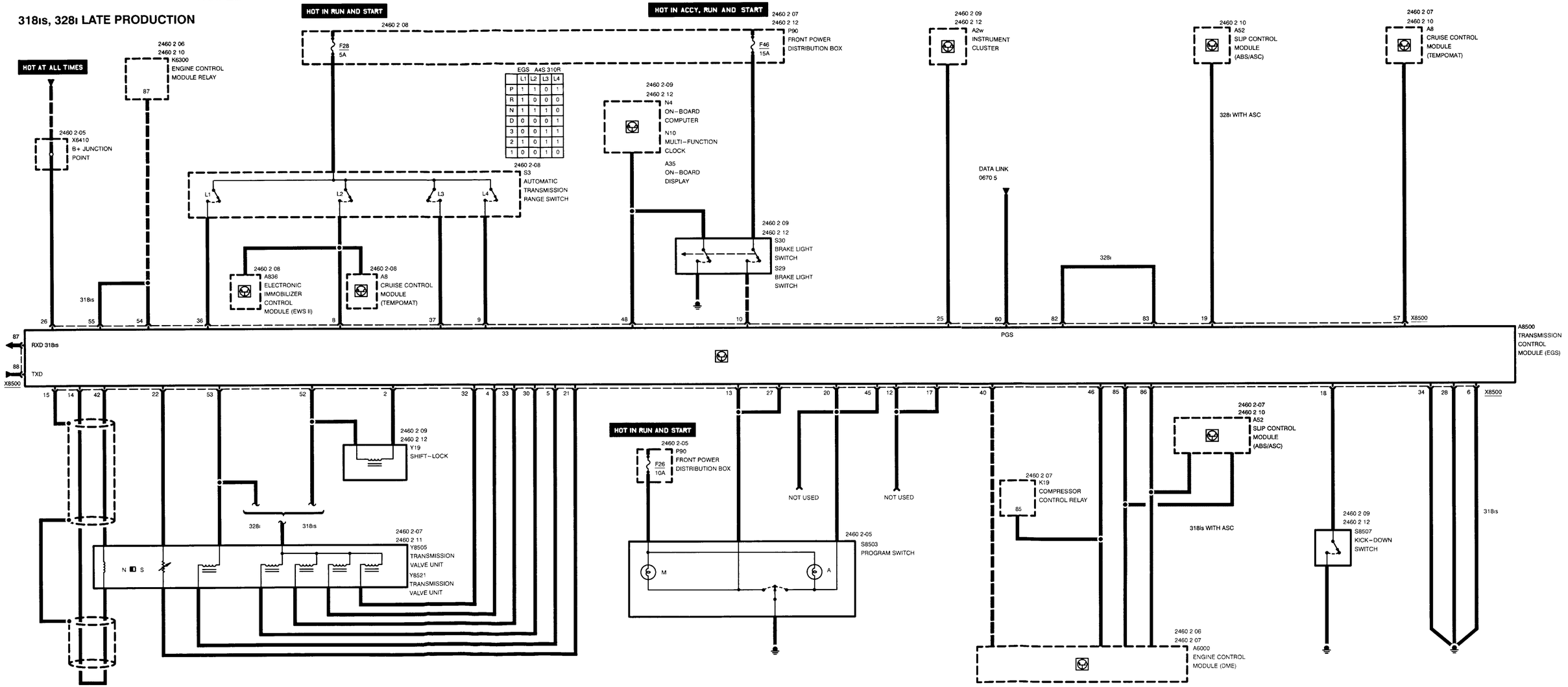
318is, 320i, 325i EARLY PRODUCTION

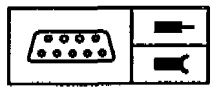


04/97 2460 2b 1996

04/97 2460 2b 1996

318is, 328i LATE PRODUCTION



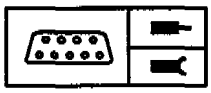


Pin Assignments (318is, 320i, 325i – Early Production)

X8500

Pin	Type	Description/Function	Connection
1	A	Shift lock solenoid control	Shift lock
2	E	Automatic mode signal	Program switch
3		Not used	
4	A	Ignition timing intervention	Engine control module (DME)
5		Not used	
6	E	ASC signal	ABS/ASC control module
7	A	S-program indication	Not used
8	E	Gear range signal L3	Automatic transmission range switch
9	E	Ti measurement signal (fuel consumption)	Engine control module (DME)
10	A	A-program indication	Program switch
11	E	Cyl. 1-6 fuel pump relay control	Engine control module (DME)
12	A	M-program indication	Program switch
13	E/A	TxD diagnostic data link	Data link connector
14	E	Output speed (–)	Transmission valve unit
15	E	Brake switch test signal	Brake light switch
16		Not used	
17	E	Oil temperature signal (analog ground)	Transmission valve unit
18	A	Shield for speed sensor	Transmission valve unit shield
19	M	Ground, power	Ground point
20	E	Output speed (+)	Transmission valve unit
21	E	A/C compressor-ON-signal	Engine control module (DME)
22	E	Oil temperature signal (+)	Transmission valve unit
23	E	Gear range signal L1	Automatic transmission range switch
24		Not used	
25	A	RxD diagnostic data link	Data link connector
26	E	Gear range signal L2	Automatic transmission range switch
27		Not used	
28	E	Battery voltage	B+ junction point
29	A	Fault indicator signal	Instrument cluster
30	E	Kick-down signal	Kick-down switch

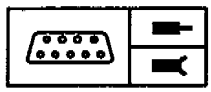
E = Input, A = Output, M = Ground



Pin Assignments (318is, 320i, 325i – Early Production)

Pin	Type	Description/Function	Connection
31	E	Manual mode signal	Program switch
32		Not used	
33	E	Gear range signal L4	Automatic transmission range switch
34	E	S-program button	Not used
35	A	Ground, shift lock solenoid	Shift lock
36	M	Ground, electronic	Ground point
37	E	Voltage supply	Engine control module relay, terminal 87a
38	A	Torque converter clutch solenoid valve control	Transmission valve unit
39	E	Brake pedal position	Brake light switch
40	A	Hydraulic pressure regulator control (+)	Transmission valve unit
41	A	Hydraulic pressure regulator control (–)	Transmission valve unit
42		Not used	
43	A	Solenoid valve 2 control (+)	Transmission valve unit
44		Not used	
45	A	Band solenoid control (+)	Transmission valve unit
46		Not used	
47		Not used	
48	A	Solenoid valve 1 control (+)	Transmission valve unit
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	A	Solenoid valves ground control	Transmission valve unit
55	E	Throttle position signal	Engine control module (DME)

E = Input, A = Output, M = Ground

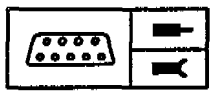


Pin Assignments (318is, 328i – Late Production)

X8500

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Shift-lock solenoid control	Shift-lock
3		Not used	
4	A	Band solenoid	Transmission valve unit (318is)
4	A	Solenoid valve 3 control (–)	Transmission valve unit (328i)
5	A	Hydraulic pressure regulator control (–)	Transmission valve unit
6	M	Ground	Ground point (318is)
7		Not used	
8	E	Gear range signal L2	Automatic transmission range switch
9	E	Gear range signal L4	Automatic transmission range switch
10	E	Brake pedal position	Brake light switch
11		Not used	
12	E	Sport mode signal	Not used
13	E	Manual mode signal	Program switch
14	E	Output speed (–)	Transmission valve unit
15	M	Ground for shield	Shield for speed sensor
16		Not used	
17	A	S-program indication	Not used
18	E	Kick-down signal	Kick-down switch
19	E	ASC signal	ASC module (328i)
20	E	Automatic mode signal	Program switch
21	E	Oil temperature signal (–)	Transmission valve unit
22	E	Oil temperature signal (+)	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	B+ Jump start junction point
27	A	M-program indication	Program switch
28	M	Ground	Ground point
29		Not used	

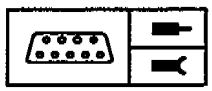
E = Input, A = Output, M = Ground



Pin Assignments (318is, 328i – Late Production)

Pin	Type	Description/Function	Connection
30	A	Solenoid valve 1 control (–)	Transmission valve unit
31		Not used	
32	A	Torque converter clutch solenoid valve control (–)	Transmission valve unit
33	A	Solenoid valve 2 control (–)	Transmission valve unit
34	M	Ground	Ground point
35		Not used	
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40	E	RPM speed signal TD	Engine control module (318is)
41		Not used	
42	E	Output speed (+)	Transmission valve unit
43		Not used	
44		Not used	
45	A	A-program indication	Program switch
46	E	A/C compressor-ON-signal	Engine control module (318is)
47		Not used	
48	E	Brake switch test signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52	A	Voltage supply	Shift-lock/Transmission valve unit (318is)
52	A	Voltage supply	Shift-lock (328i)
53	E	Voltage pressure regulator	Transmission valve unit
54	E	Voltage supply terminal 87	Engine control module relay
55	E	Voltage supply terminal 87	Engine control module relay (318is)
56		Not used	
57	E	Cruise control signal	Cruise control module
58		Not used	
59		Not used	

E = Input, A = Output, M = Ground



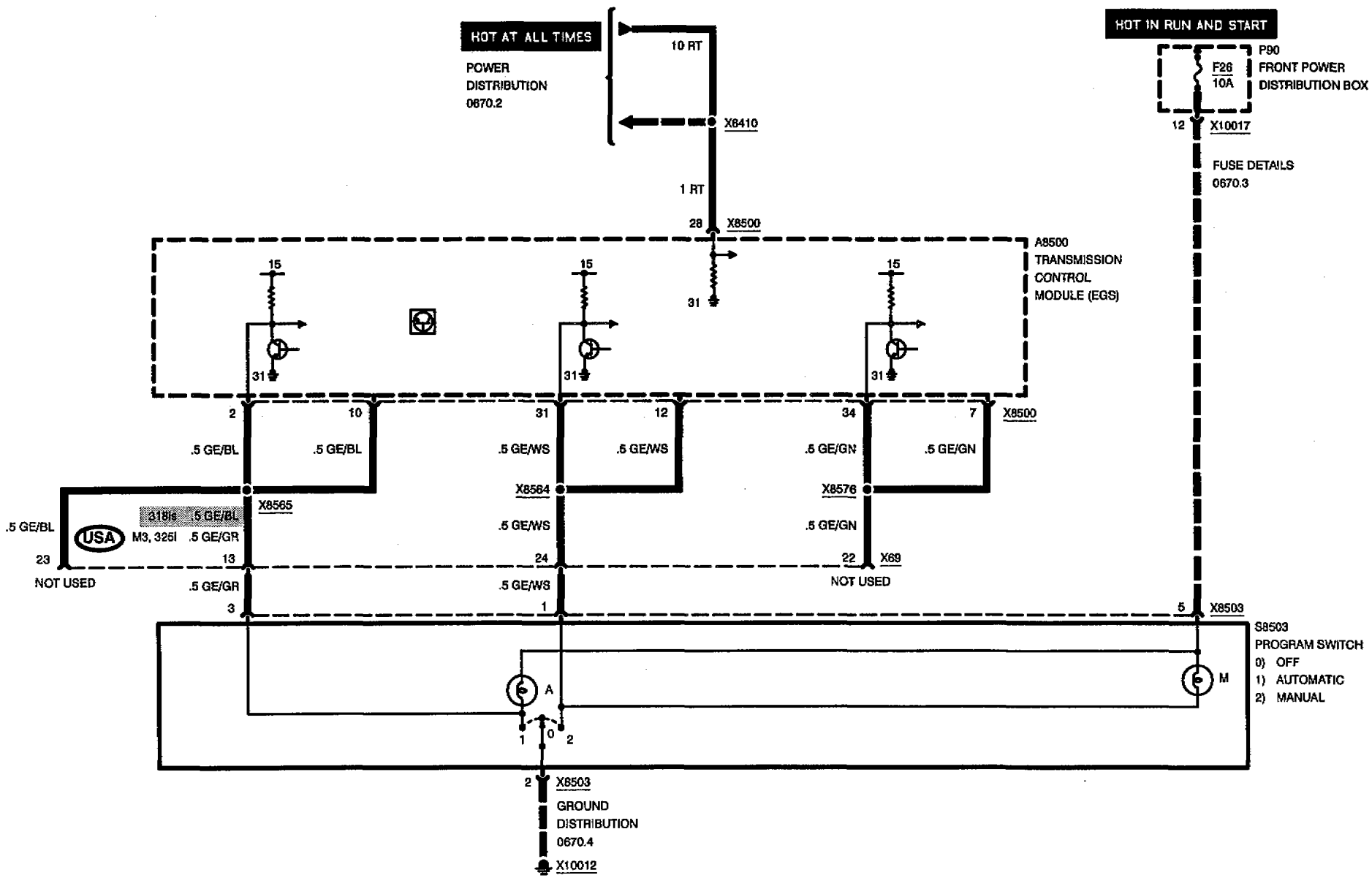
Pin Assignments (318is, 328i – Late Production)

Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper plug	(328i)
83	E/A	Jumper plug	(328i)
84		Not used	
85	E/A	CAN-LOW	Engine control module
86	E/A	CAN-HIGH	Engine control module
87	A	RxD diagnostic data link	Data link connector (318is)
88	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

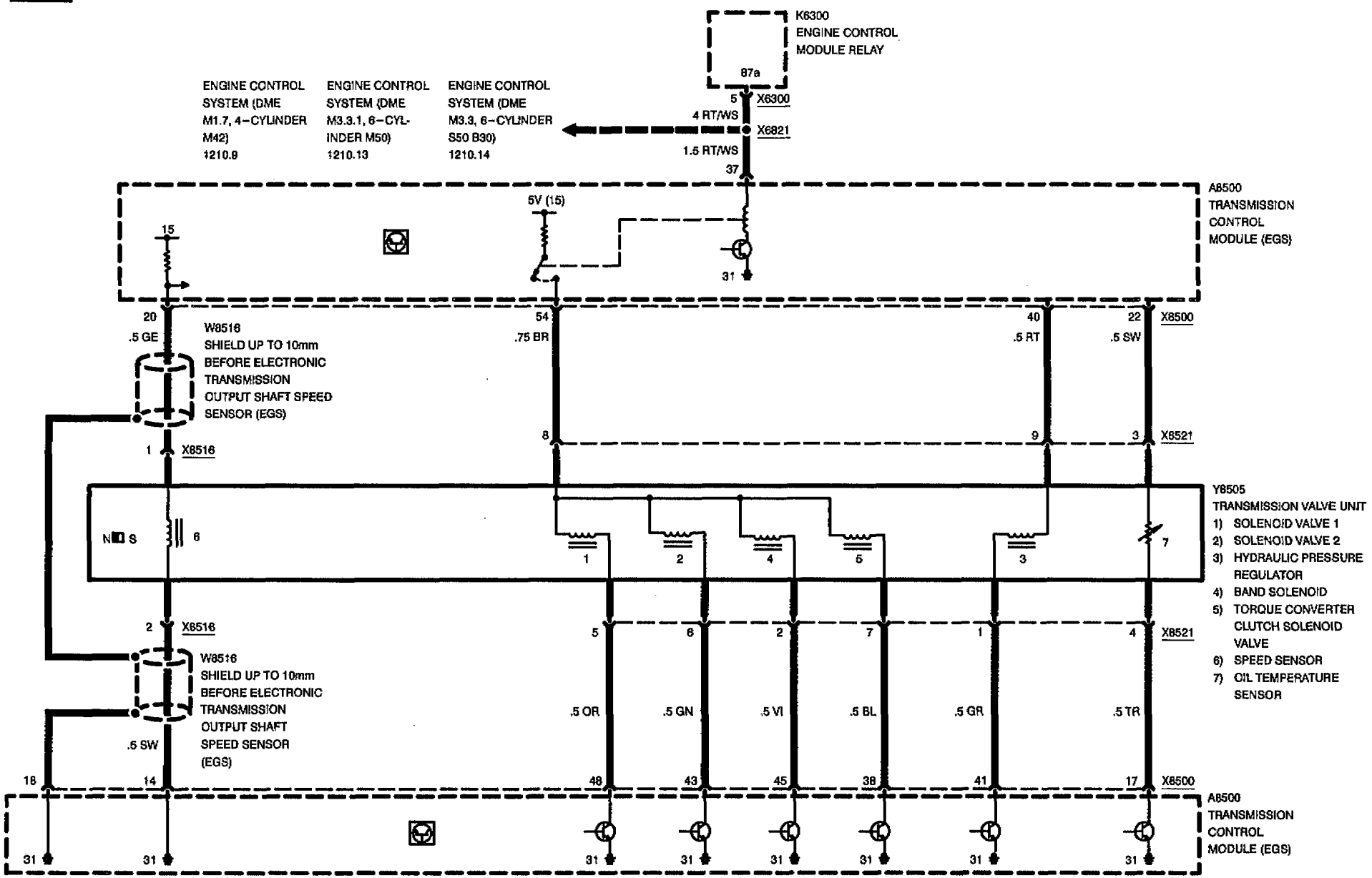
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION

POWER, PROGRAM SWITCH

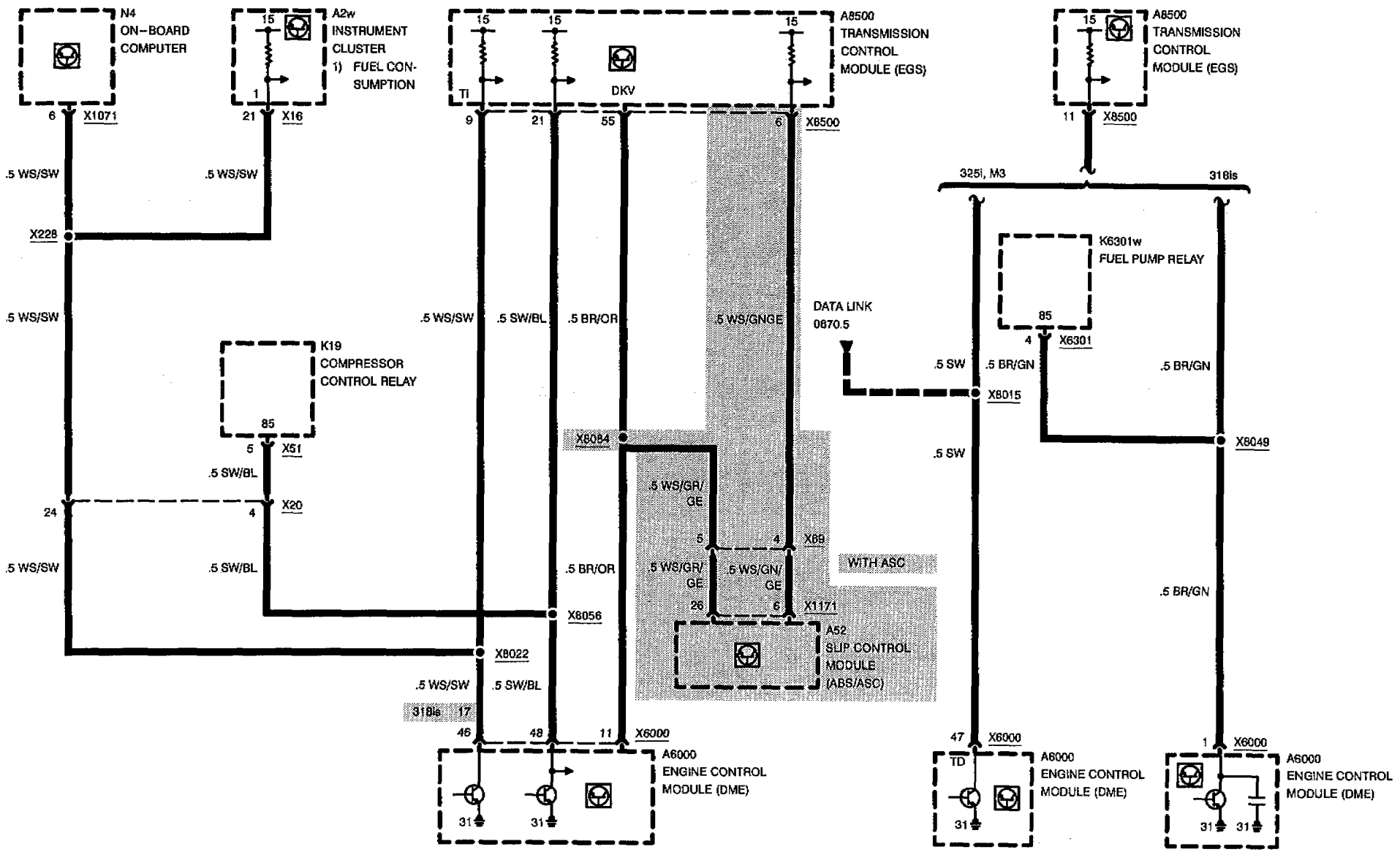


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION

POWER

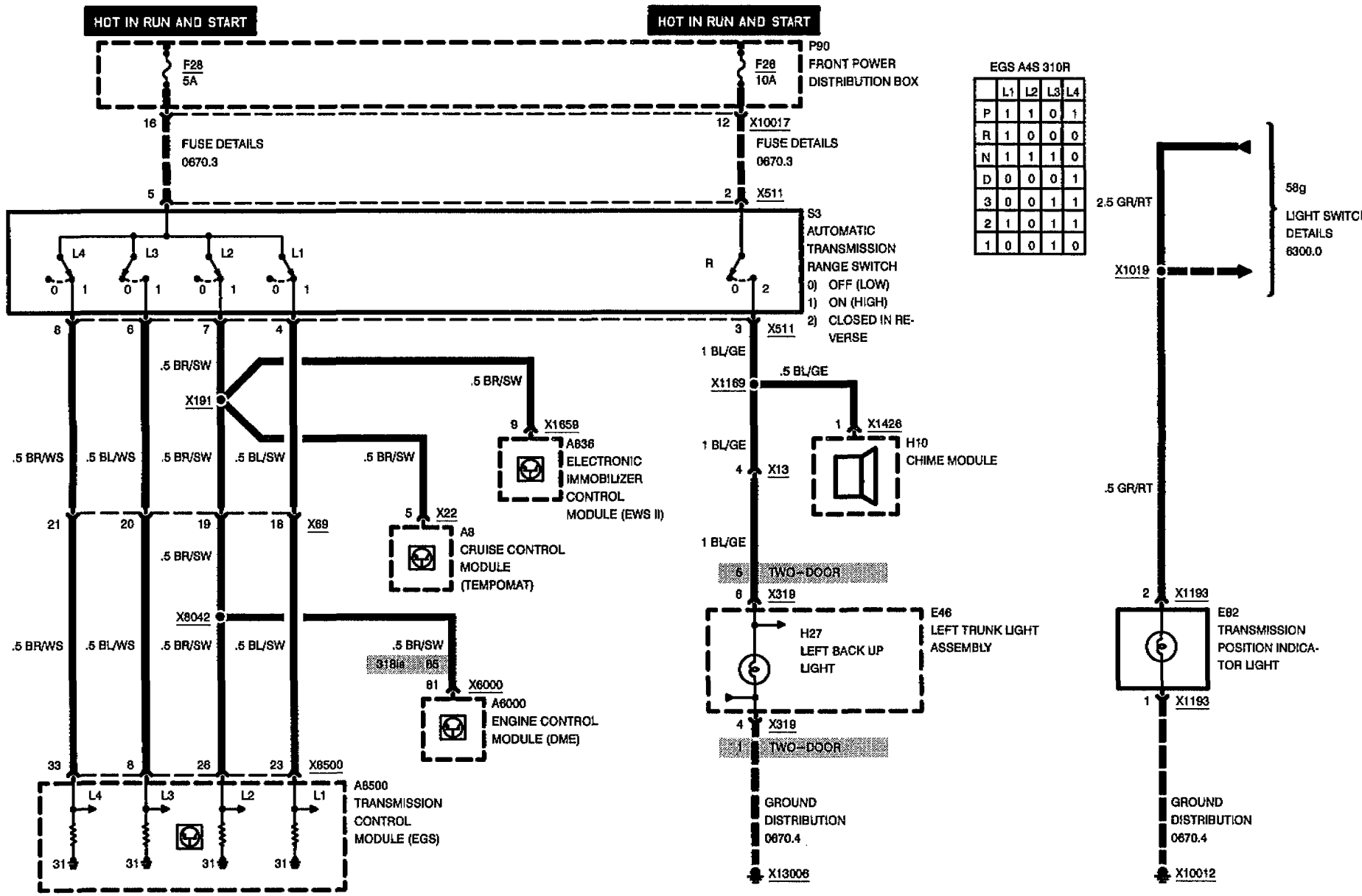


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION



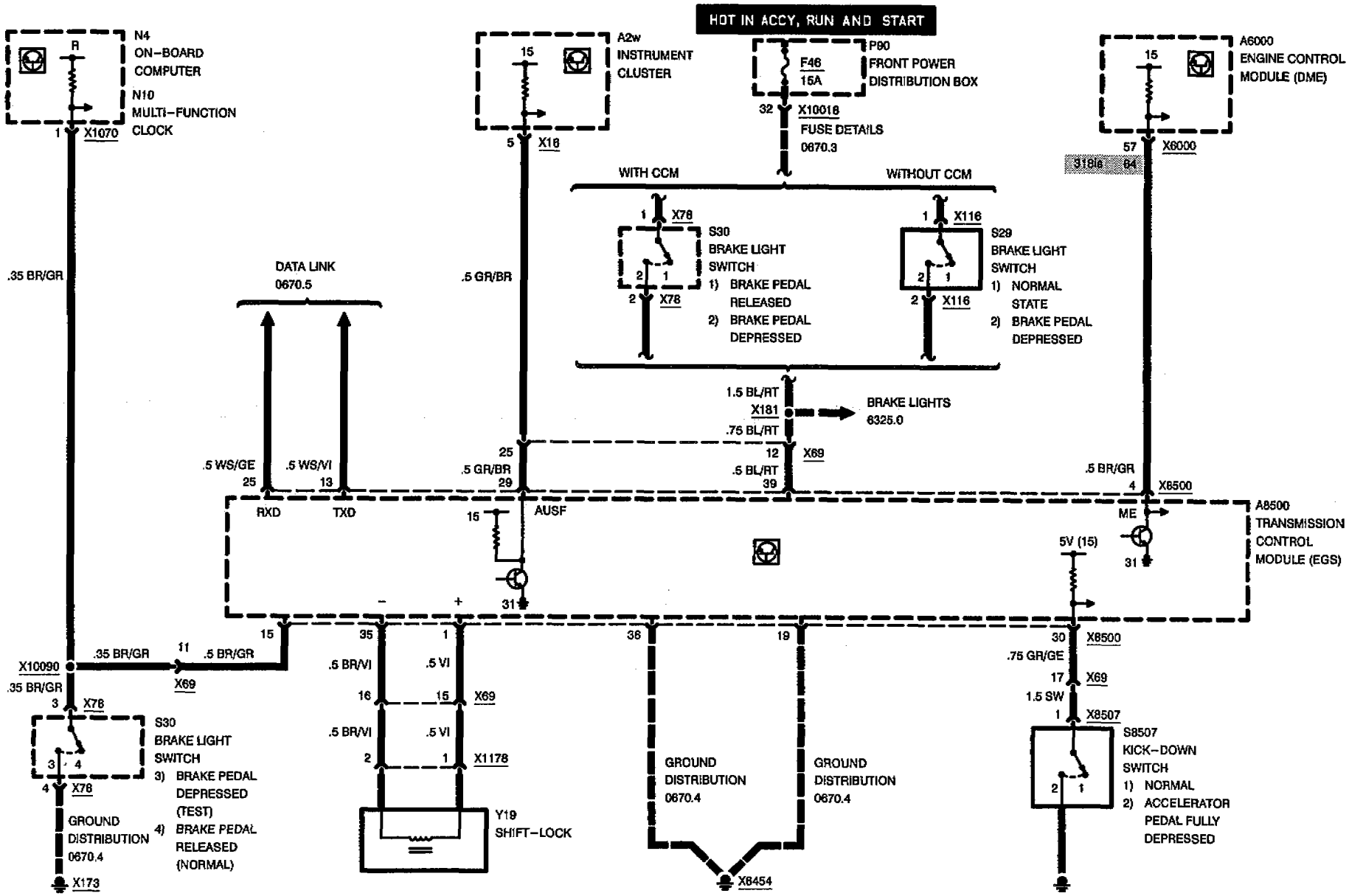
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION

GEAR SELECTOR SWITCH



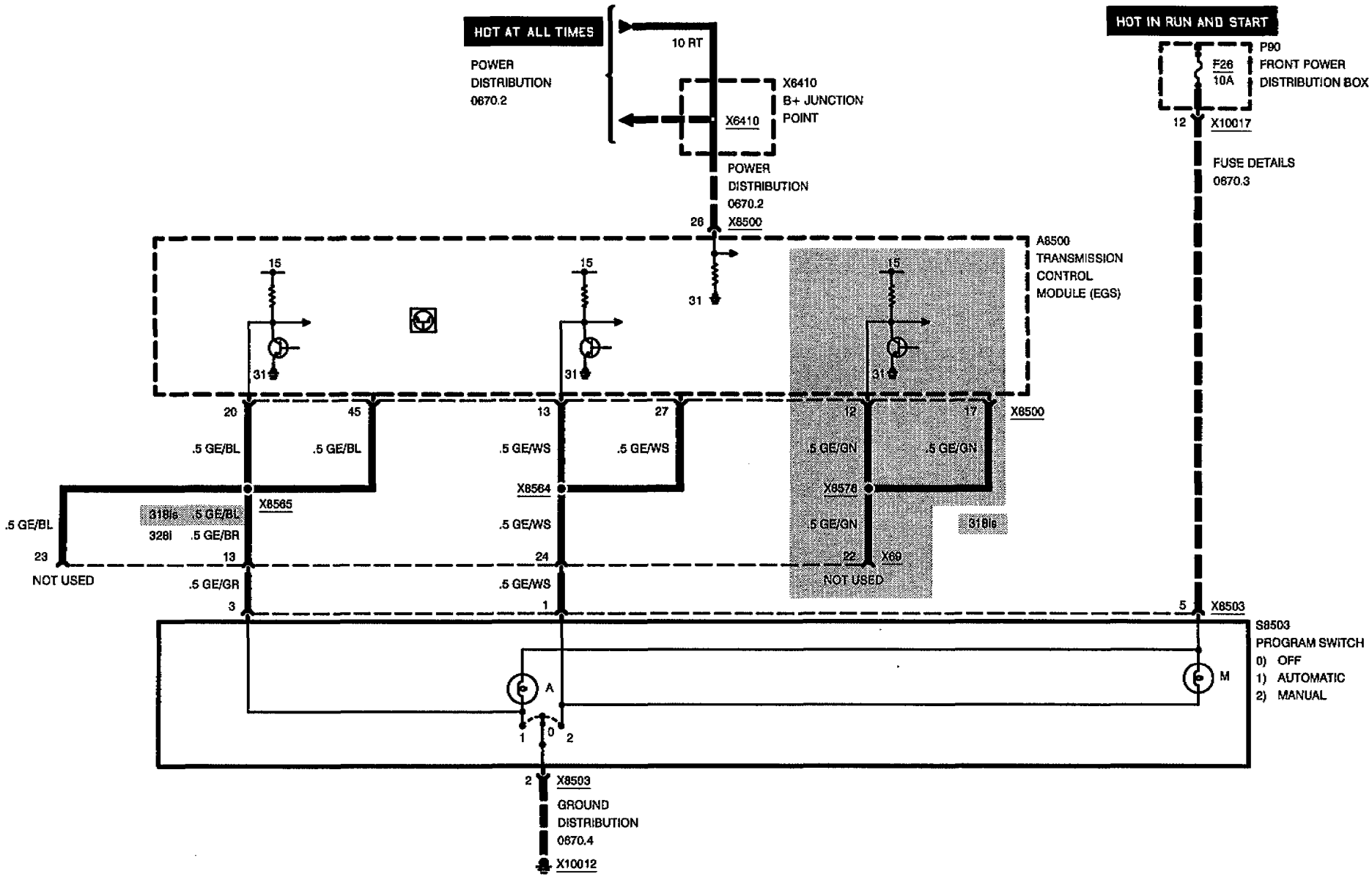
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i EARLY PRODUCTION

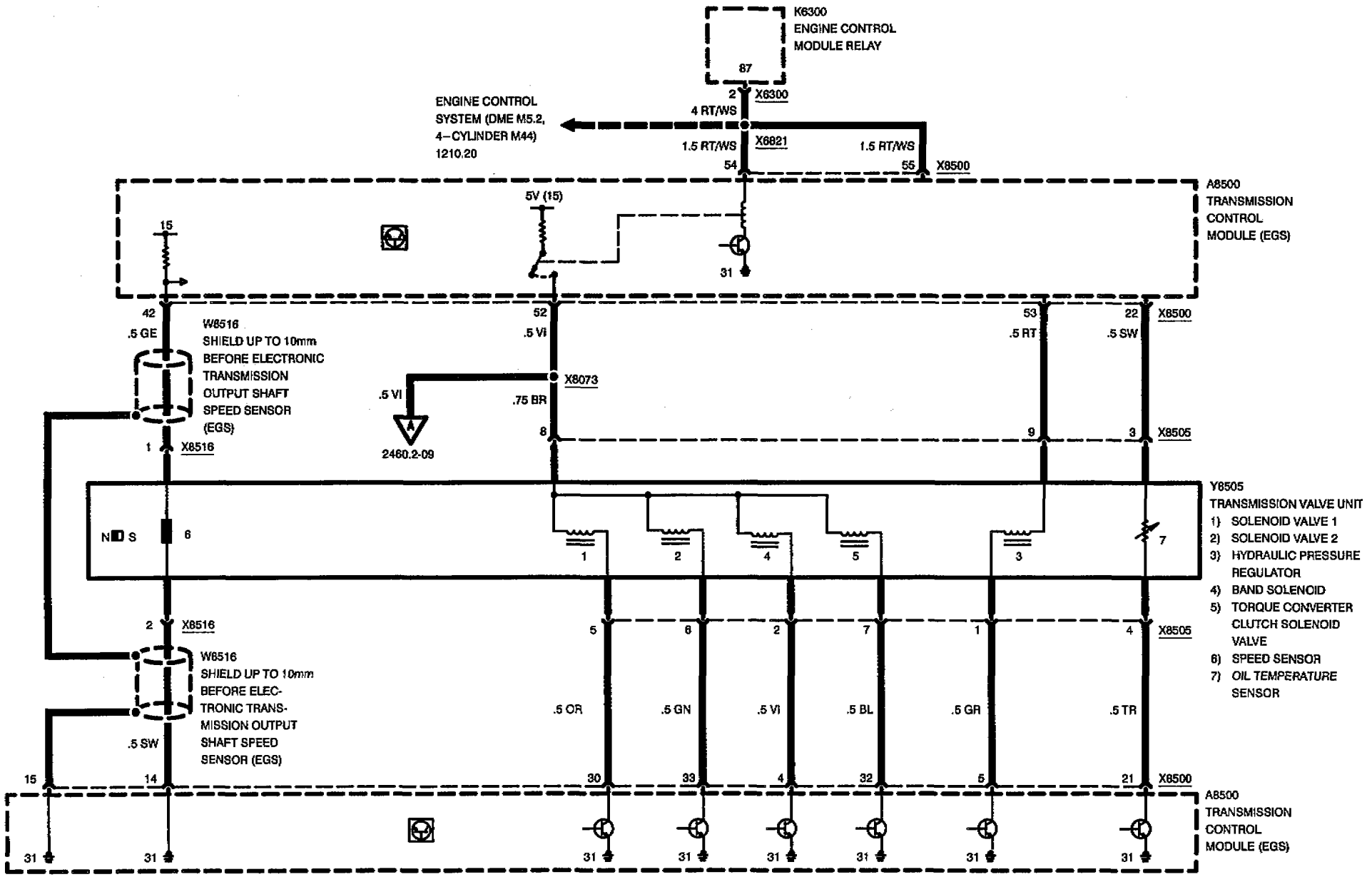
SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH



ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 328i, 318is LATE PRODUCTION

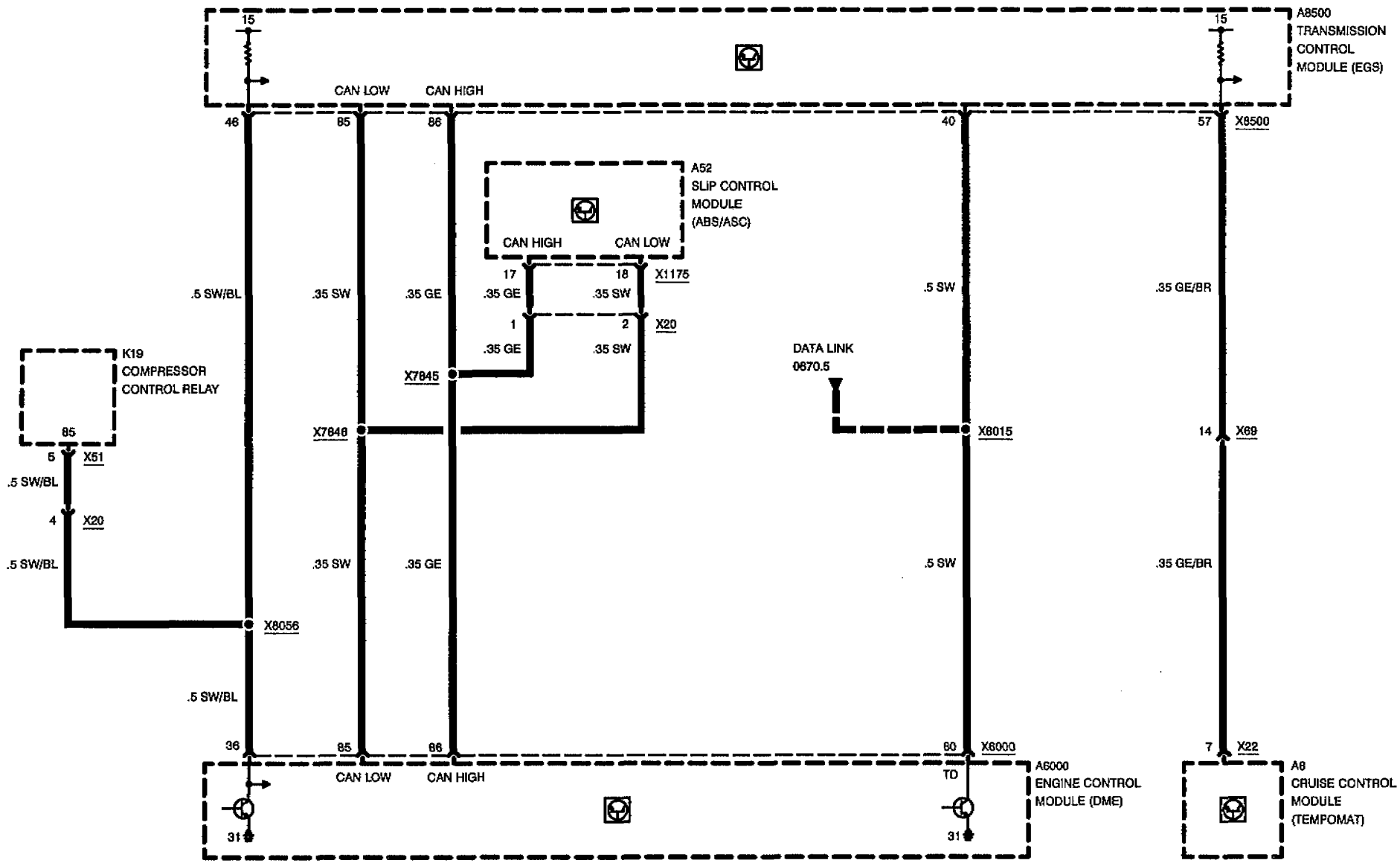
POWER, PROGRAM SWITCH




K6300
ENGINE CONTROL
MODULE RELAY
87
2
X6300
4 RT/WS
ENGINE CONTROL
SYSTEM (DME M5.2,
4–CYLINDER M44)
1210.20
1.5 RT/WS
X6821
1.5 RT/WS
54
55
X8500
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
5V (15)
15
31
42
.5 GE
52
.5 VI
53
.5 RT
22
.5 SW
X8500
W8516
SHIELD UP TO 10mm
BEFORE ELECTRONIC
TRANSMISSION
OUTPUT SHAFT
SPEED SENSOR
(EGS)
.5 VI
X8073
.75 BR
2460.2-09
1
X8516
8
9
3
X8505
N
S
6
Y8505
TRANSMISSION VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) HYDRAULIC PRESSURE
REGULATOR
4) BAND SOLENOID
5) TORQUE CONVERTER
CLUTCH SOLENOID
VALVE
6) SPEED SENSOR
7) OIL TEMPERATURE
SENSOR
1
2
4
5
3
7
2
X8516
5
6
2
7
1
4
X8505
W6516
SHIELD UP TO 10mm
BEFORE ELEC-
TRONIC TRANS-
MISSION OUTPUT
SHAFT SPEED
SENSOR (EGS)
.5 SW
.5 OR
.5 GN
.5 VI
.5 BL
.5 GR
.5 TR
15
14
30
33
4
32
5
21
X8500
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
31
31
31
31
31
31
31
31

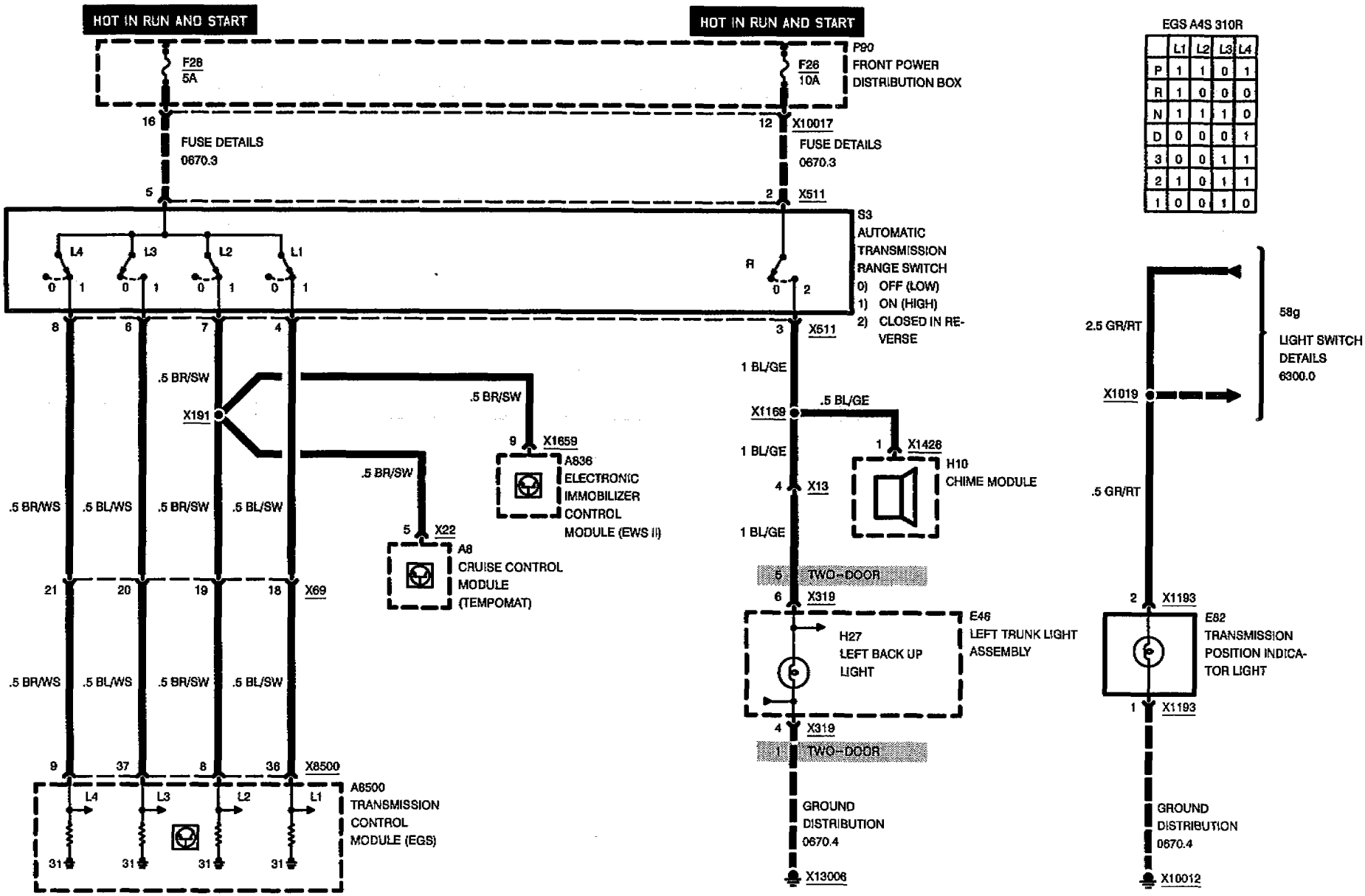
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

318is LATE PRODUCTION



ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 328i LATE PRODUCTION

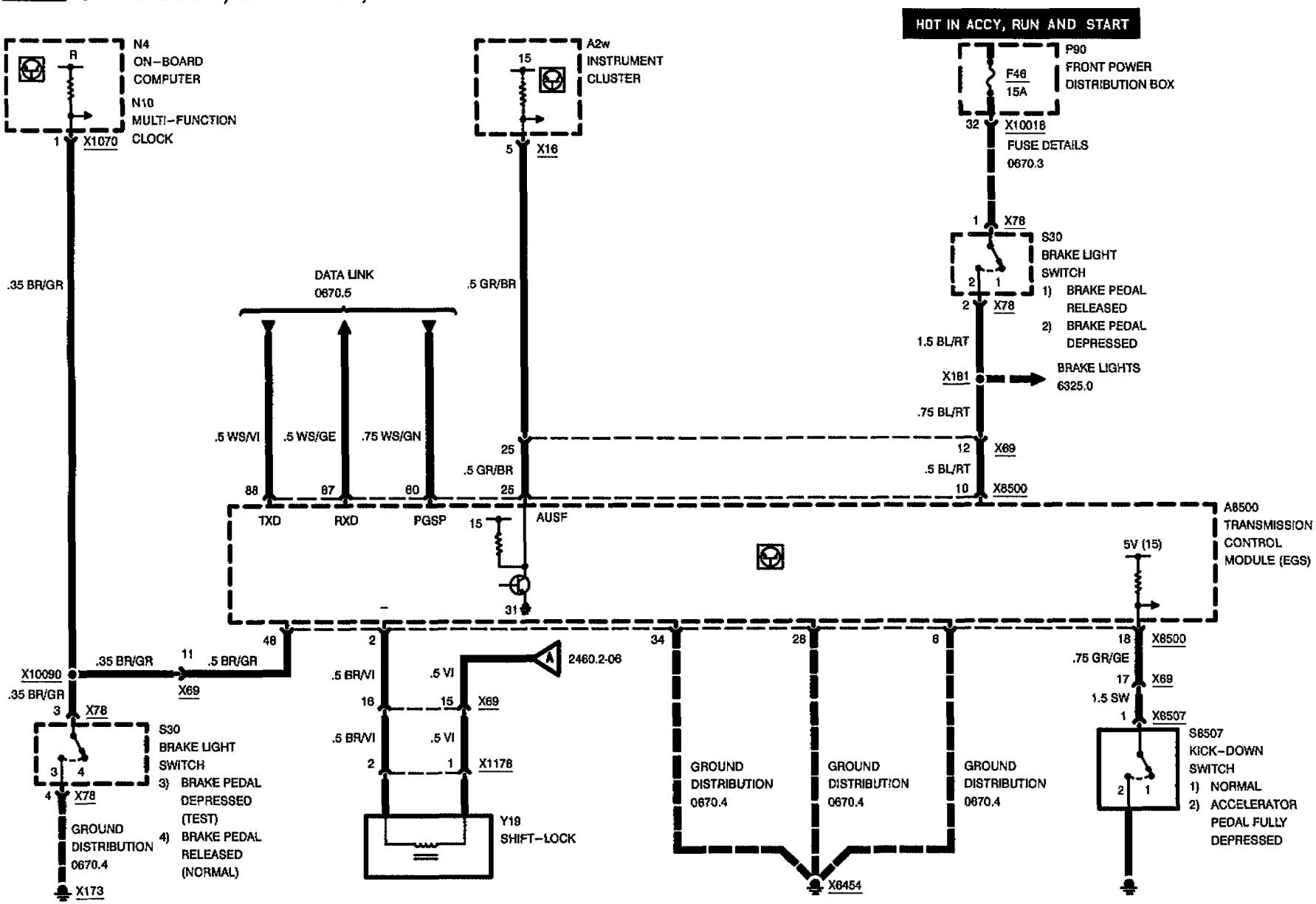
GEAR SELECTOR SWITCH

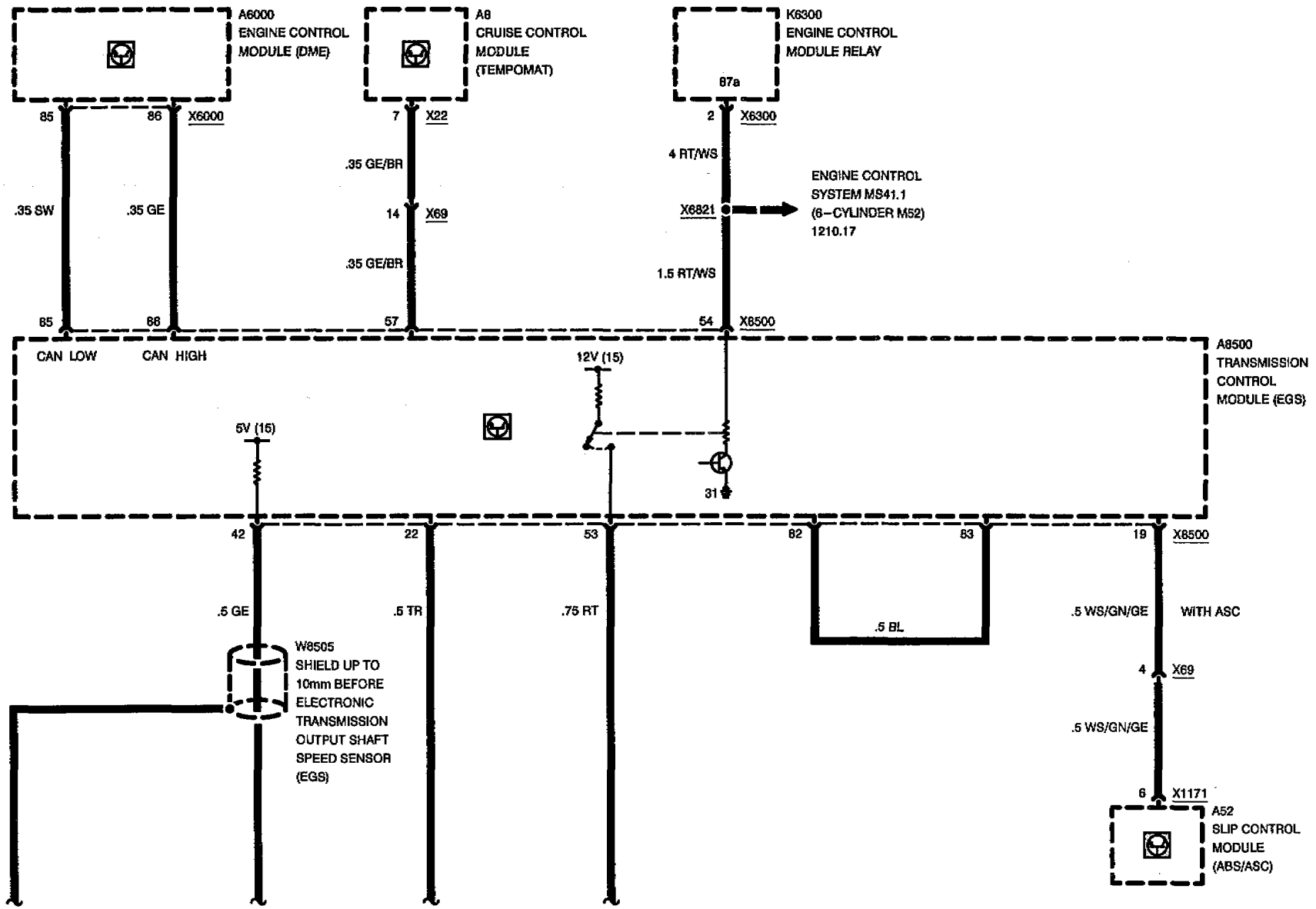


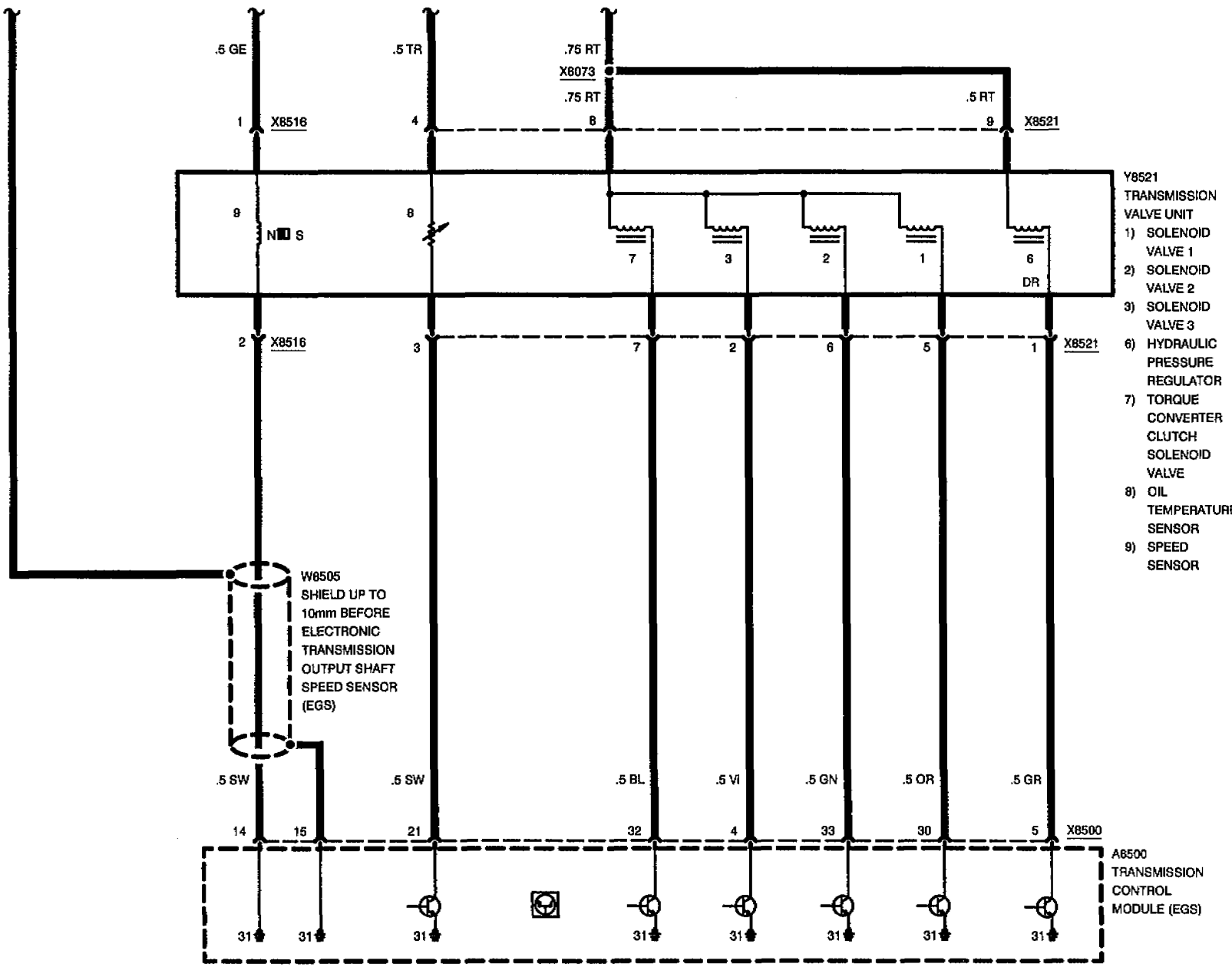
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

318is LATE PRODUCTION

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH



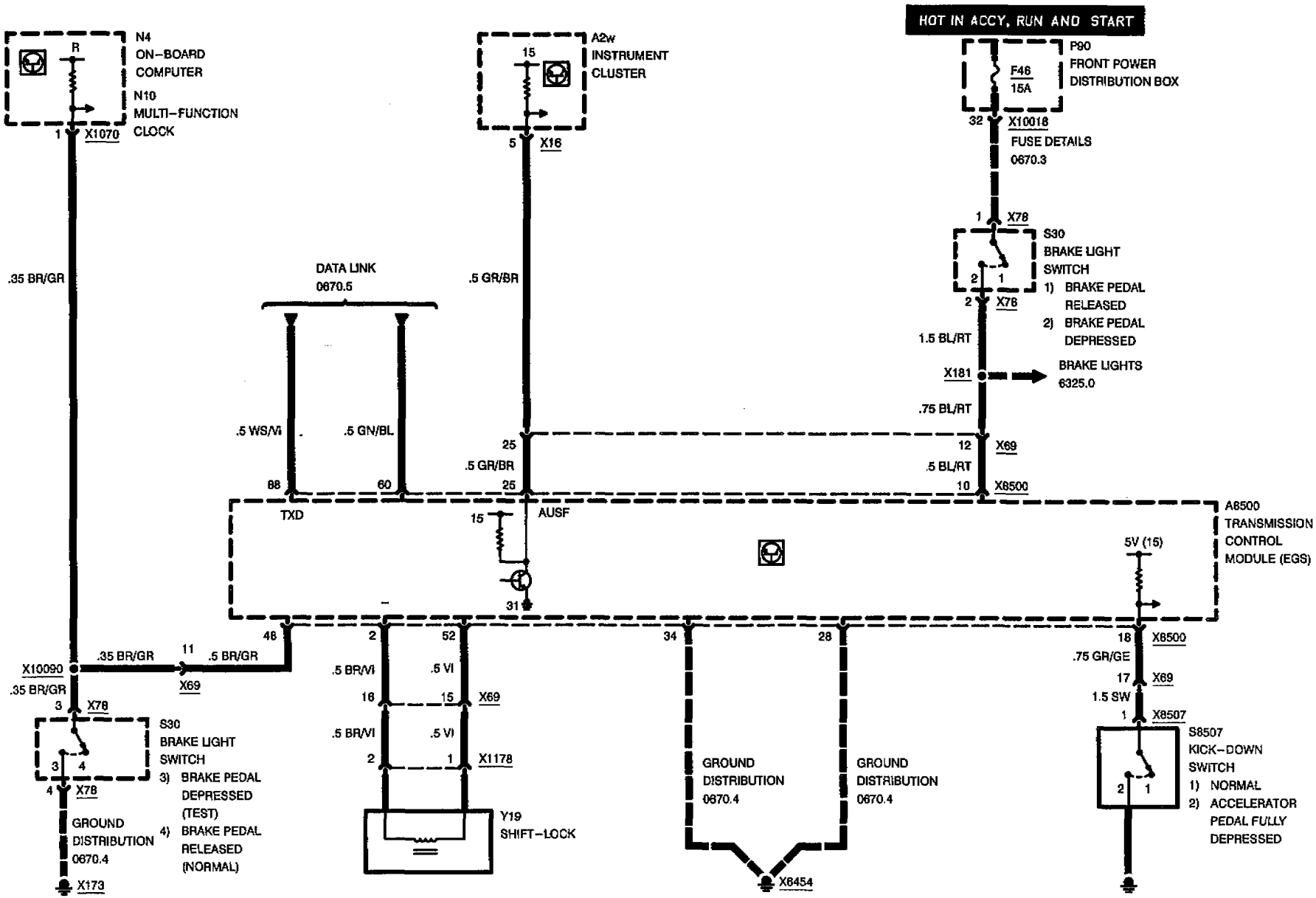

A6000
ENGINE CONTROL
MODULE (DME)
A8
CRUISE CONTROL
MODULE
(TEMPOMAT)
K6300
ENGINE CONTROL
MODULE RELAY
87a
85
86
X6000
7
X22
2
X6300
.35 GE/BR
4 RT/WS
.35 SW
.35 GE
14
X69
X6821
ENGINE CONTROL
SYSTEM MS41.1
(6-CYLINDER M52)
1210.17
.35 GE/BR
1.5 RT/WS
85
86
57
54
X8500
CAN LOW
CAN HIGH
12V (15)
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
5V (15)
31
42
22
53
82
83
19
X8500
.5 GE
.5 TR
.75 RT
.5 BL
.5 WS/GN/GE
WITH ASC
W8505
SHIELD UP TO
10mm BEFORE
ELECTRONIC
TRANSMISSION
OUTPUT SHAFT
SPEED SENSOR
(EGS)
4
X69
.5 WS/GN/GE
6
X1171
A52
SLIP CONTROL
MODULE
(ABS/ASC)


.5 GE
.5 TR
.75 RT
X6073
.75 RT
.5 RT
1
X8516
4
8
9
X8521
Y8521
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
9
N S
8
7
3
2
1
6
DR
2
X8516
3
7
2
6
5
1
X8521
W8505
SHIELD UP TO 10mm BEFORE ELECTRONIC TRANSMISSION OUTPUT SHAFT SPEED SENSOR (EGS)
.5 SW
.5 SW
.5 BL
.5 VI
.5 GN
.5 OR
.5 GR
14
15
21
32
4
33
30
5
X8500
A6500
TRANSMISSION CONTROL MODULE (EGS)
31
31
31
31
31
31
31
31

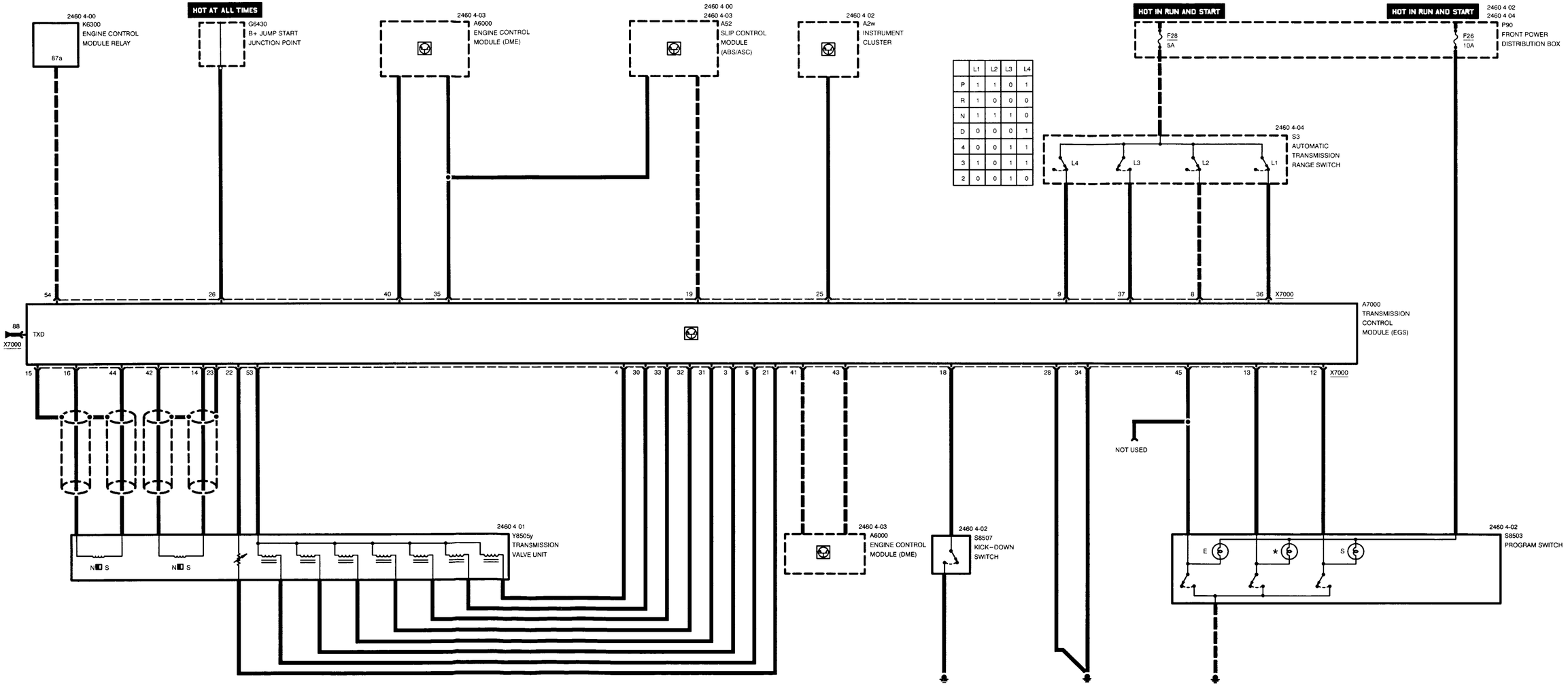
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

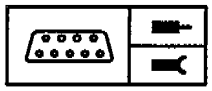
SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH

328i LATE PRODUCTION



04/97 2460 4 1996
04/97 2460 4 1996



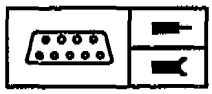


Pin Assignments

X7000

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3	A	Solenoid valve 5	Transmission valve unit
4	A	Torque converter clutch solenoid valve	Transmission valve unit
5	A	Hydraulic pressure regulator	Transmission valve unit
6		Not used	
7		Not used	
8		Gear range signal L2	Automatic transmission range switch
9		Gear range signal L4	Automatic transmission range switch
10		Not used	
11		Not used	
12	E	S-program indication	Program switch
13	E	*-program indication	Program switch
14	E	Speed sensor	Transmission valve unit
15	M	Shield speed sensor	Shield
16	A	Speed sensor n-turbine	Transmission valve unit
17		Not used	
18	E	Kick-down signal	Kick-down switch
19	E	ABS signal	ABS/ASC control module
20		Not used	
21	M	Ground oil temperature sensor	Transmission valve unit
22	E	Oil temperature sensor	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	Jump start junction point
27		Not used	
28	M	Ground, electronics	Ground
29		Not used	
30	A	Solenoid valve 1	Transmission valve unit

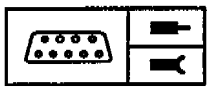
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Solenoid valve 4	Transmission valve unit
32	A	Solenoid valve 3	Transmission valve unit
33	A	Solenoid valve 2	Transmission valve unit
34	M	Ground	Ground
35	E	DKT interface	Engine control module (DME)
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40	A	Ignition timing intervention	Engine control module (DME)
41	E	Ti-measurement signal (fuel consumption)	Engine control module (DME)
42	A	Speed sensor n - ab (+)	Transmission valve unit
43	E	Crankshaft RPM speed signal TD	Engine control module (DME)
44	E	Speed sensor n-turbine	Transmission valve unit
45	E	E-program indication	Program switch
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53	A	Voltage supply for solenoid valves	Transmission valve unit
54	E	Voltage supply	DME relay
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	
62		Not used	

E = Input, A = Output, M = Ground

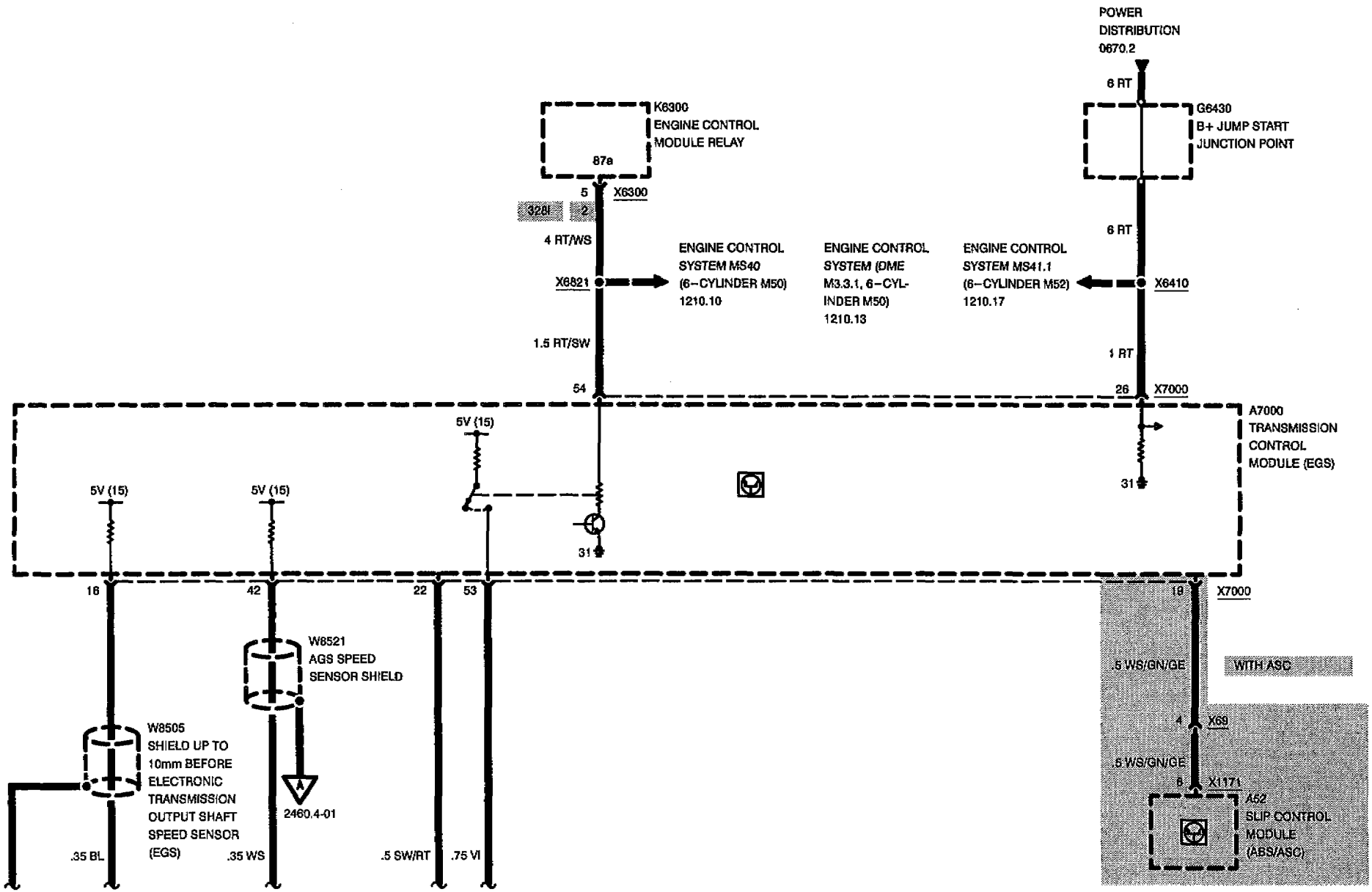


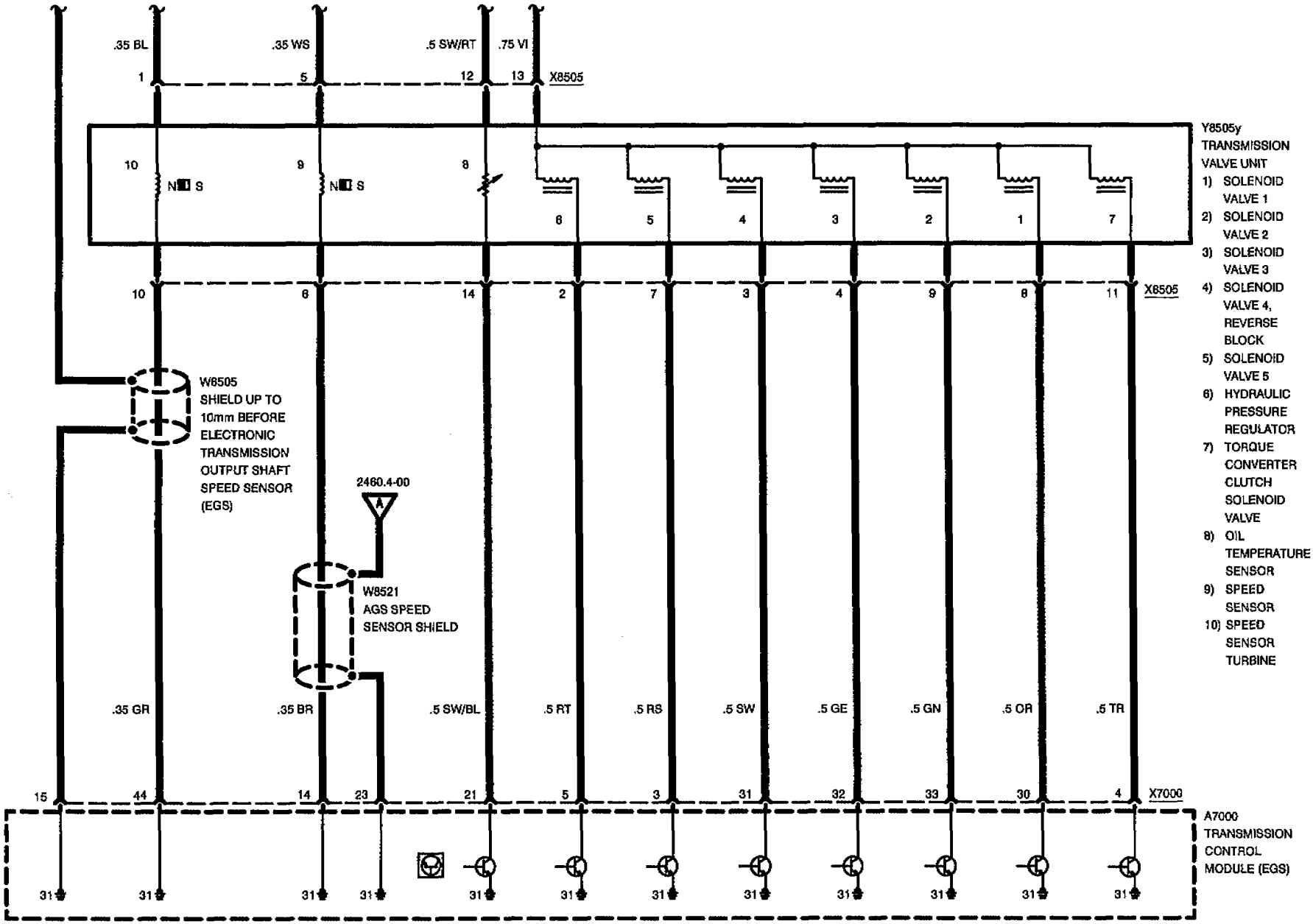
Pin Assignments

Pin	Type	Description/Function	Connection
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87	A	RxD diagnostic data link	Data link connector
88	E/A	TxD diagnostic data link	Data link connector

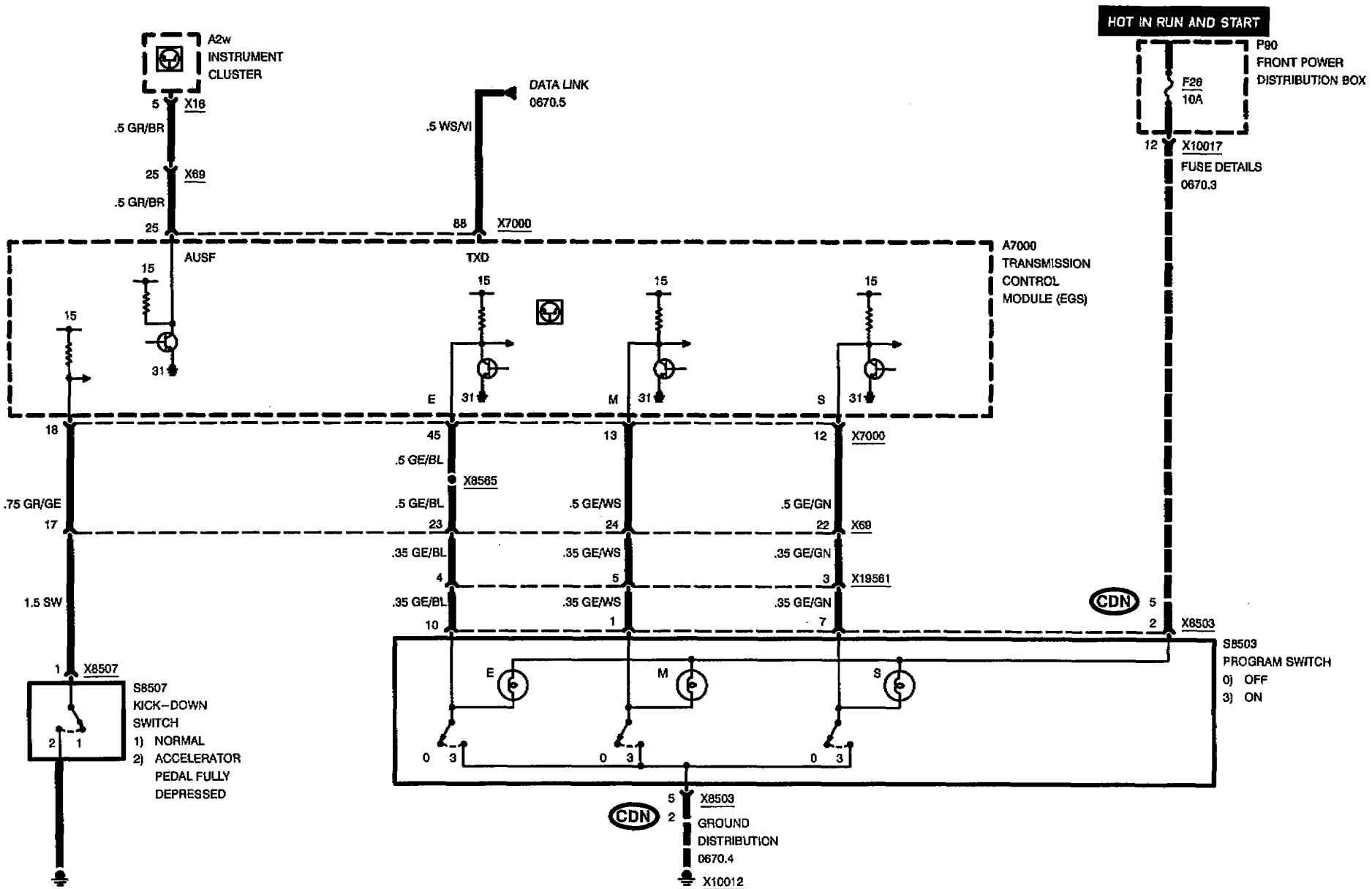
E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

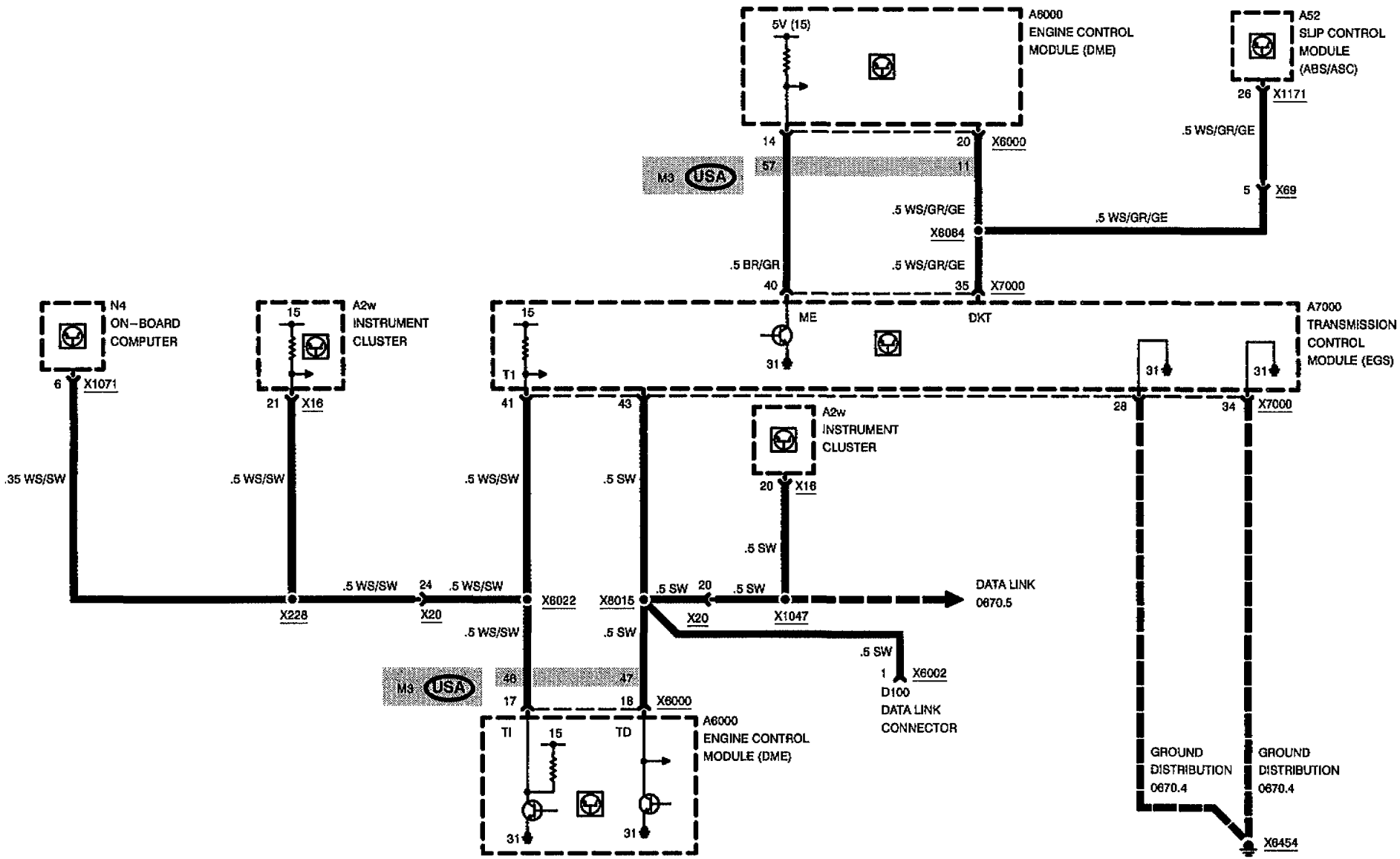



.35 BL
.35 WS
.5 SW/RT
.75 VI
X8505
Y8505y
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
4) SOLENOID VALVE 4, REVERSE BLOCK
5) SOLENOID VALVE 5
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
10) SPEED SENSOR TURBINE
W8505
SHIELD UP TO 10mm BEFORE ELECTRONIC TRANSMISSION OUTPUT SHAFT SPEED SENSOR (EGS)
2460.4-00
W8521
AGS SPEED SENSOR SHIELD
.35 GR
.35 BR
.5 SW/BL
.5 RT
.5 RS
.5 SW
.5 GE
.5 GN
.5 OR
.5 TR
X7000
A7000
TRANSMISSION CONTROL MODULE (EGS)

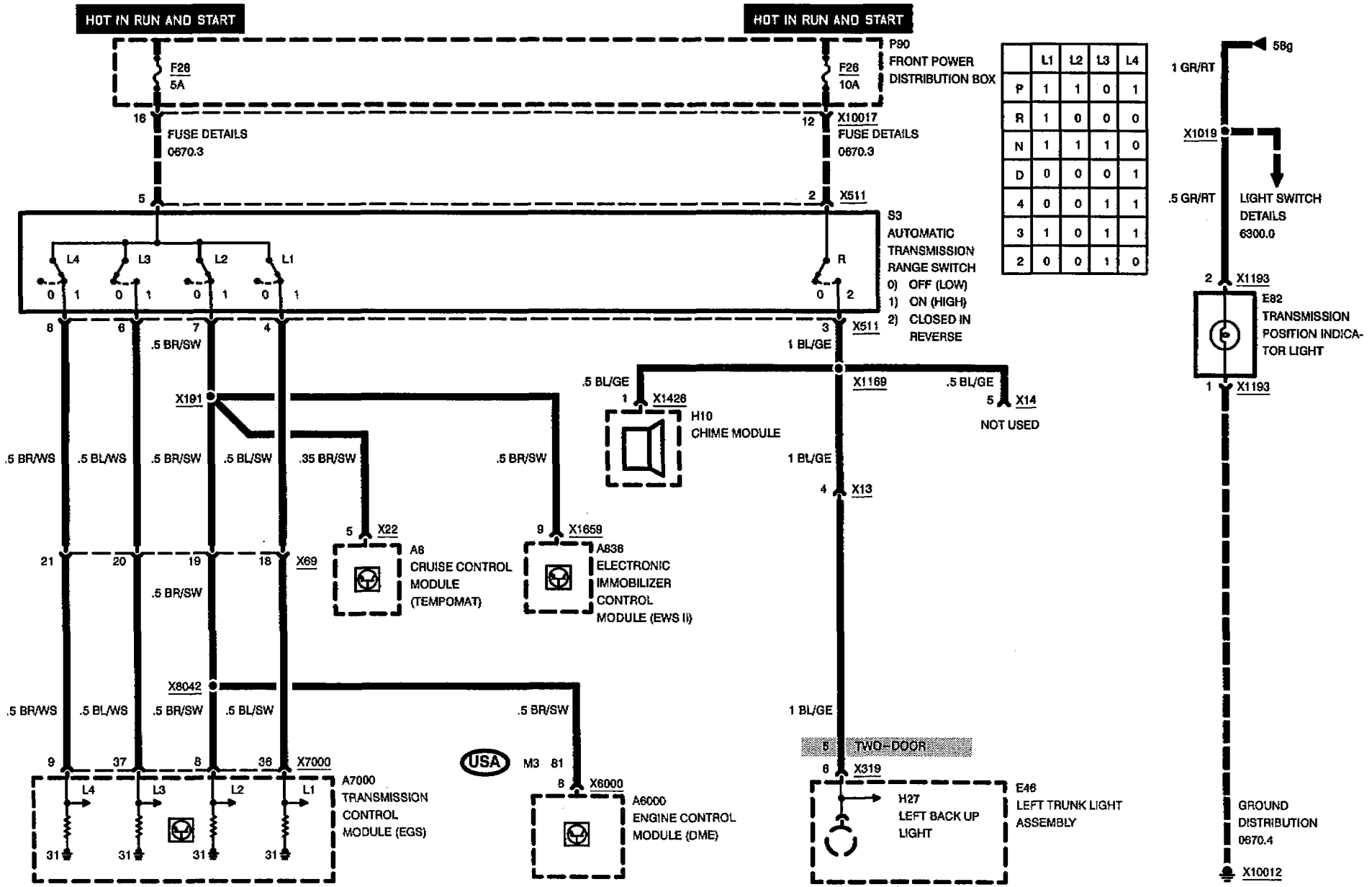
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

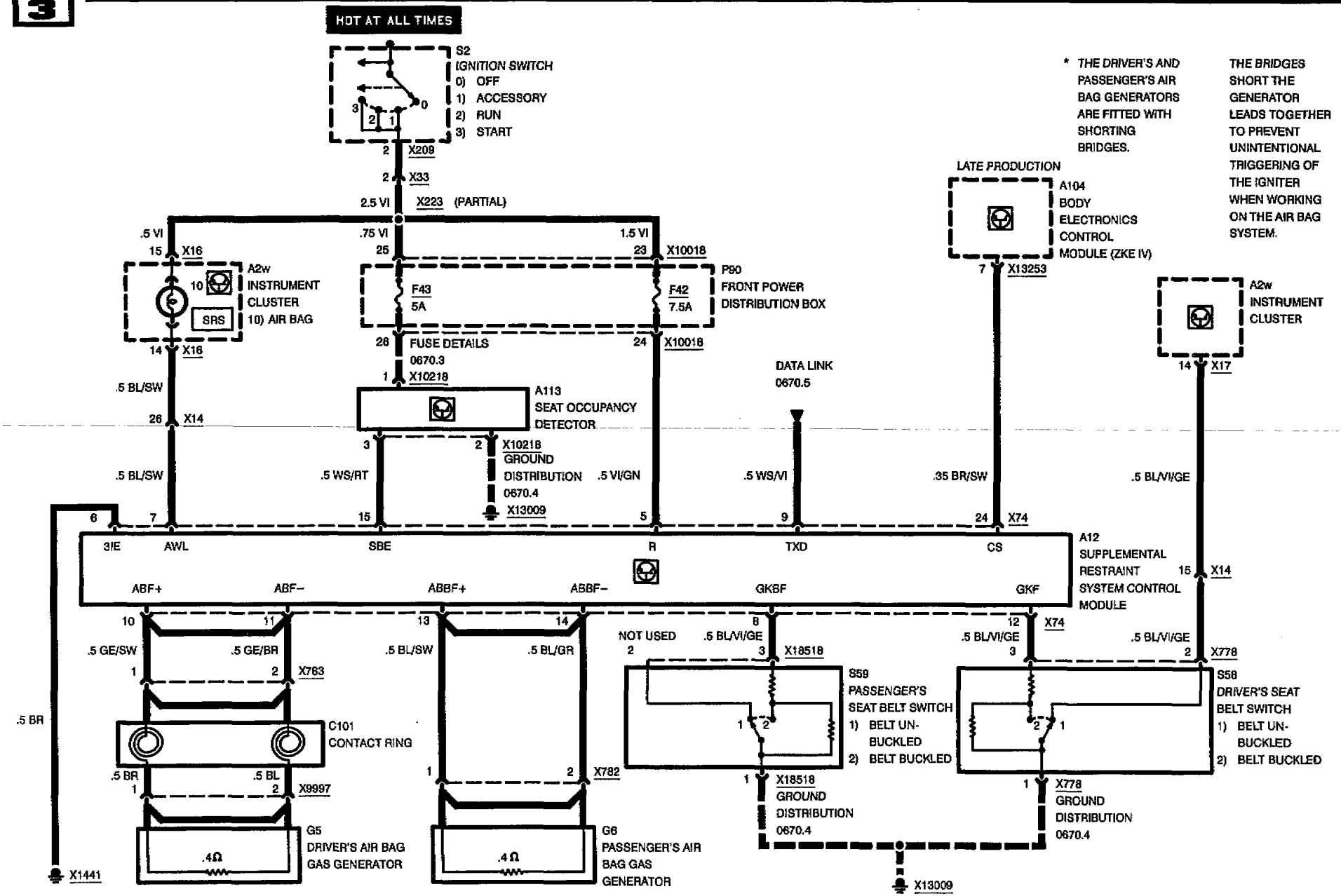


ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

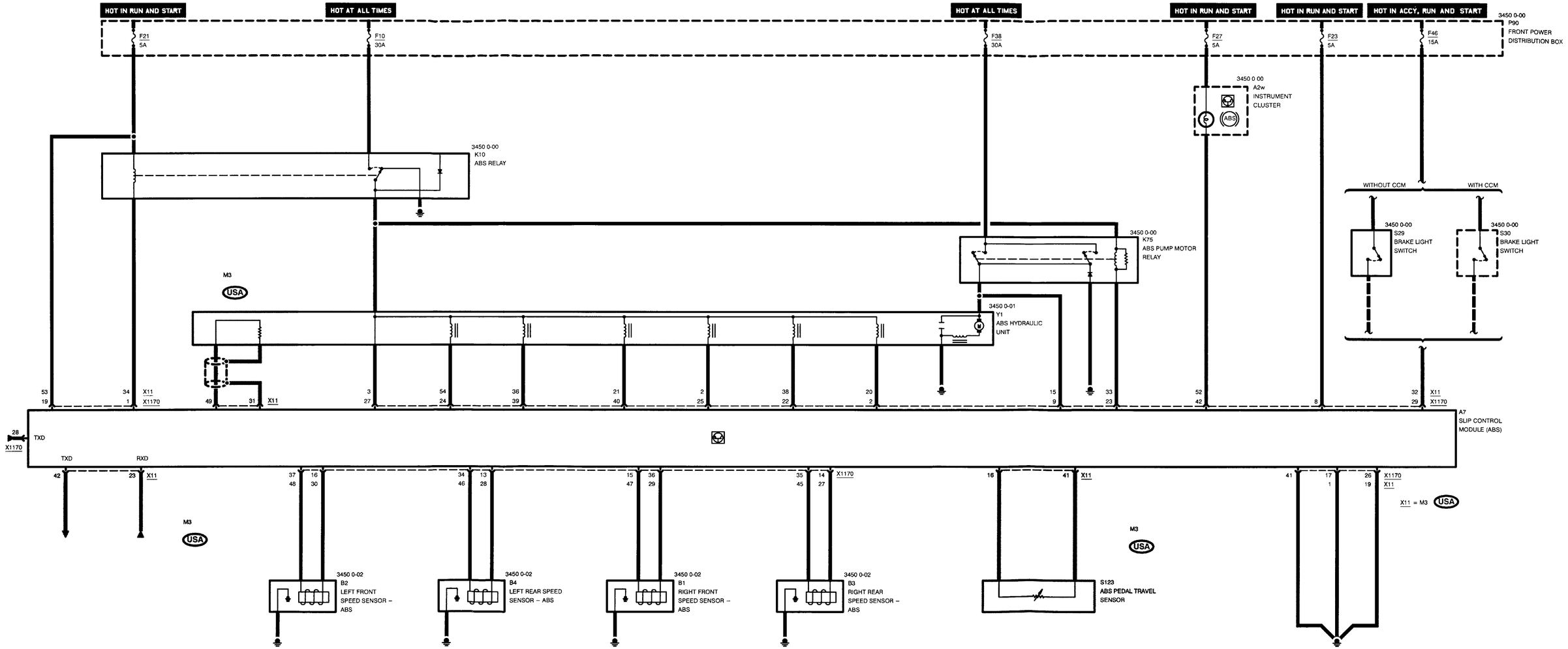


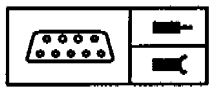
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



04/97 3450 0 1996
04/97 3450 0 1996



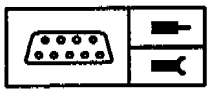


Pin Assignments

X1170

Pin	Type	Description/Function	Connection
1	A	ABS relay control	ABS relay
2	A	Right front inlet valve control	ABS hydraulic unit
3		Not used	
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8	E	Voltage supply, terminal 15	Front power distribution box, fuse 23
9	E	Operating voltage	ABS relay
10		Not used	
11		Not used	
12		Not used	
13	A	Speed sensor ground, RL	Left rear speed sensor - ABS
14	A	Speed sensor ground, RR	Right rear speed sensor - ABS
15	A	Speed sensor ground, FR	Right front speed sensor - ABS
16	A	Speed sensor ground, FL	Left front speed sensor - ABS
17	M	Ground, control module	Chassis ground
18		Not used	
19	E	Voltage supply, terminal 15	Front power distribution box, fuse 21
20		Not used	
21		Not used	
22	A	Left front inlet valve control	ABS hydraulic unit
23	A	ABS pump motor relay control	ABS pump motor relay
24	A	Rear axle inlet valve control	ABS hydraulic unit
25	A	Left front outlet valve control	ABS hydraulic unit
26	M	Ground, control module	Chassis ground
27	E	Voltage monitoring, hydraulics	ABS hydraulic unit
28	E/A	TxD diagnostic data link	Data link connector
29	E	Brake light signal	Brake light switch
30		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
31		Not used	
32		Not used	
33		Not used	
34	E	Speed sensor signal RL	Left rear speed sensor - ABS
35	E	Speed sensor signal RR	Right rear speed sensor - ABS
36	E	Speed sensor signal FR	Right front speed sensor - ABS
37	E	Speed sensor signal FL	Left front speed sensor - ABS
38		Not used	
39	A	Rear axle outlet valve control	ABS hydraulic unit
40	A	Right front outlet valve control	ABS hydraulic unit
41	M	Ground, control module	Chassis ground
42	A	ABS warning lamp control	Instrument cluster
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54		Not used	
55		Not used	

E = Input, A = Output, M = Ground

Pin Assignments (M3 USA)

X11

Pin	Type	Description/Function	Connection
1	M	Ground, control module	Chassis ground
2	A	Left front outlet valve	ABS hydraulic unit
3	E	Voltage monitoring, hydraulics	ABS hydraulic unit
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	
13		Not used	
14		Not used	
15	E	Operating voltage	ABS relay
16	E	Pedal travel sensor	ABS pedal travel sensor
17		Not used	
18		Not used	
19	M	Ground, control module	Chassis ground
20	A	Left front inlet valve	ABS hydraulic unit
21	A	Right front outlet valve control	ABS hydraulic unit
22		Not used	
23	A	RxD diagnostic data link	Data link connector
24		Not used	
25		Not used	
26		Not used	
27	A	Speed sensor ground, RR	Right rear speed sensor - ABS
28	A	Speed sensor ground, RL	Left rear speed sensor - ABS
29	E	Speed sensor signal, FR	Right front speed sensor - ABS
30	A	Speed sensor ground, FL	Left front speed sensor - ABS

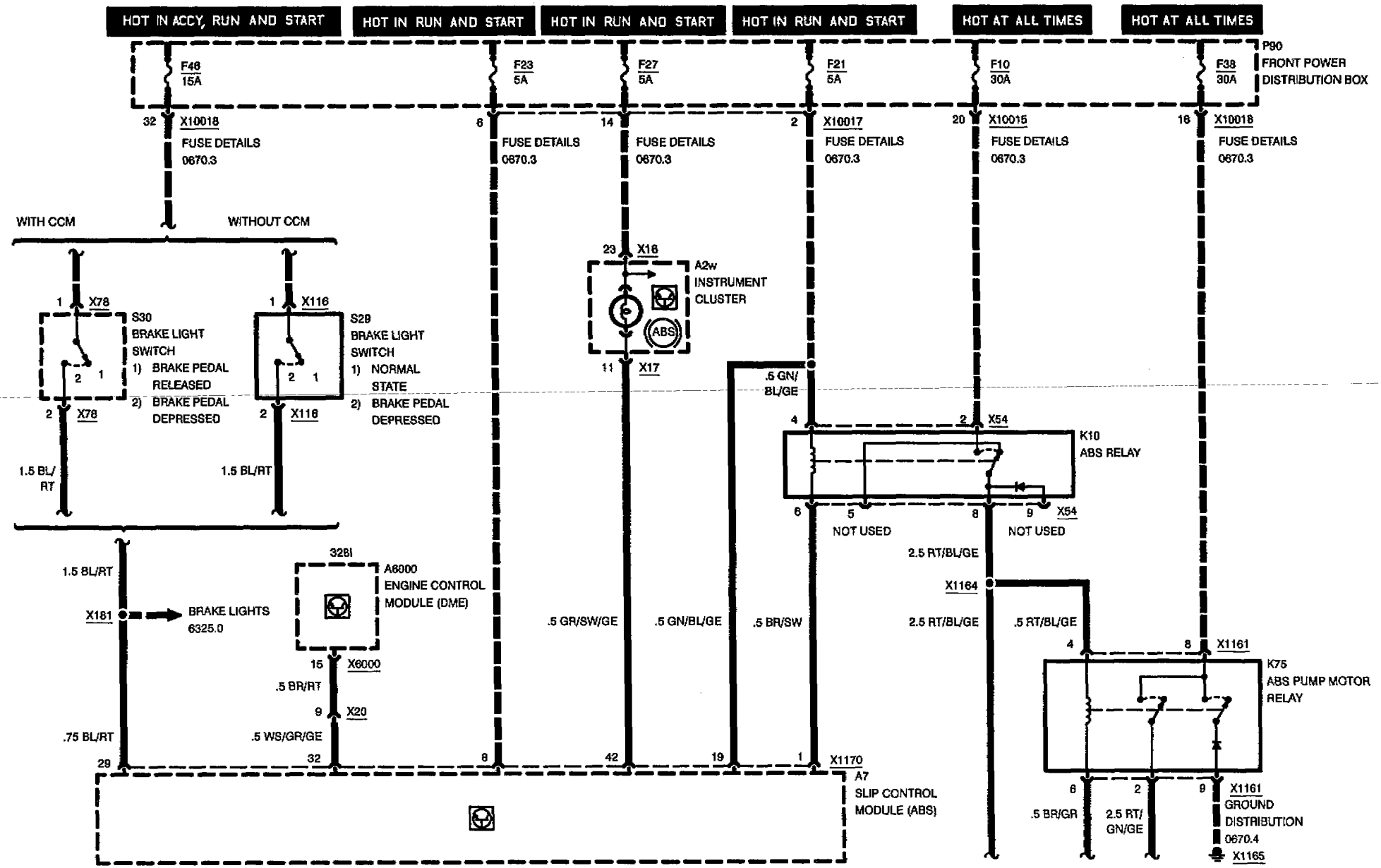
E = Input, A = Output, M = Ground

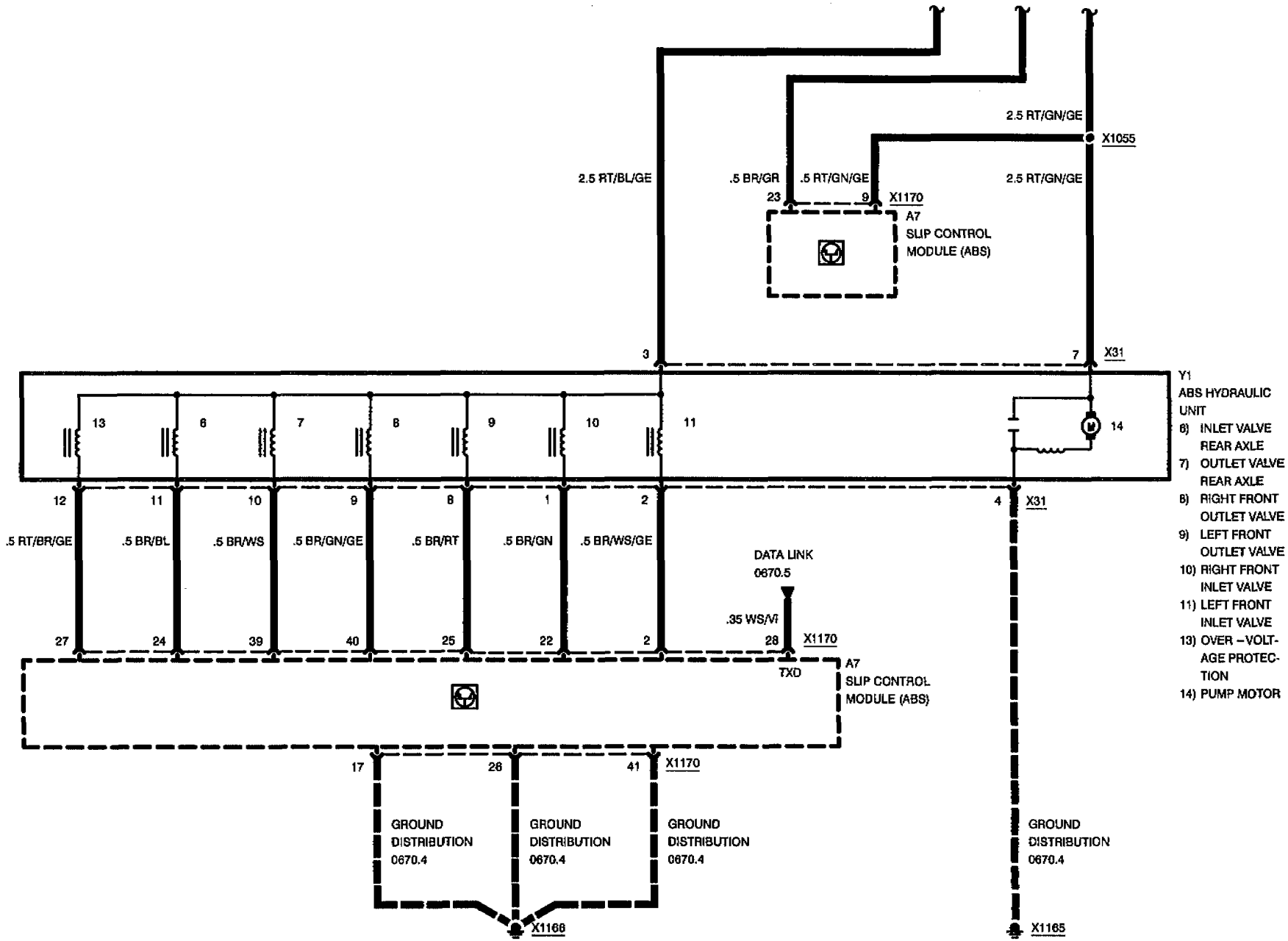
Pin Assignments (M3 USA)

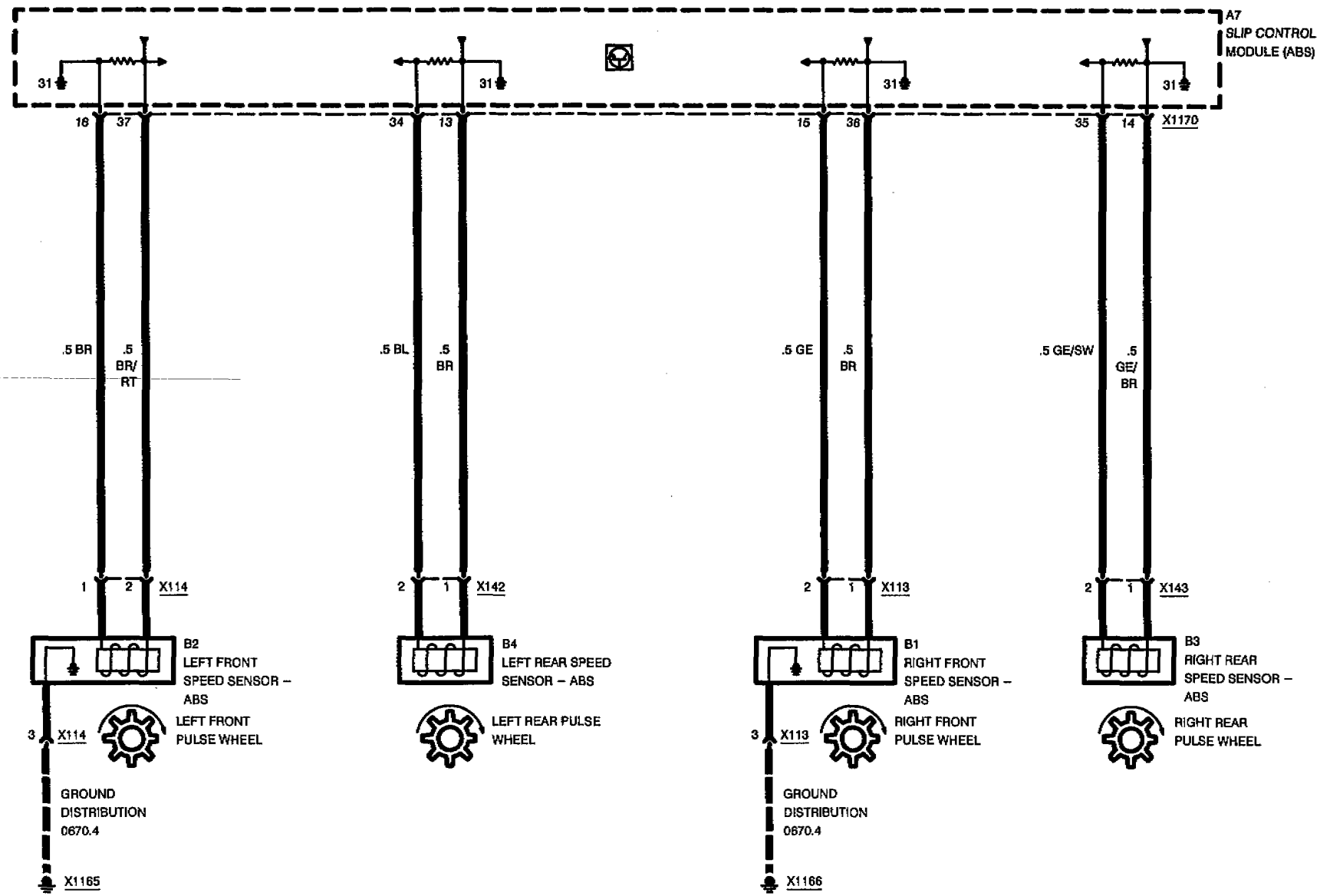
Pin	Type	Description/Function	Connection
31	A	Fuel injection quantity controller	ABS hydraulic unit
32	E	Brake light signal	Brake light switch
33	A	ABS pump motor relay control	ABS pump motor relay
34	A	ABS relay control	ABS relay
35		Not used	
36	A	Rear axle outlet valve control	ABS hydraulic unit
37		Not used	
38	A	Right front inlet valve control	ABS hydraulic unit
39		Not used	
40		Not used	
41	E	Pedal travel sensor	ABS pedal travel sensor
42	E/A	TxD diagnostic data link	Data link connector
43		Not used	
44		Not used	
45	E	Speed sensor signal, RR	Right rear speed sensor - ABS
46	E	Speed sensor signal, RL	Left rear speed sensor - ABS
47	A	Speed sensor signal, FR	Right front speed sensor - ABS
48	E	Speed sensor signal, FL	Left front speed sensor - ABS
49	A	Fuel injection quantity controller	ABS hydraulic unit
50		Not used	
51		Not used	
52	A	ABS warning lamp control	Instrument cluster
53	E	Voltage supply, terminal 15	Front power distribution box, fuse 21
54	A	Rear axle inlet valve control	ABS hydraulic unit

E = Input, A = Output, M = Ground

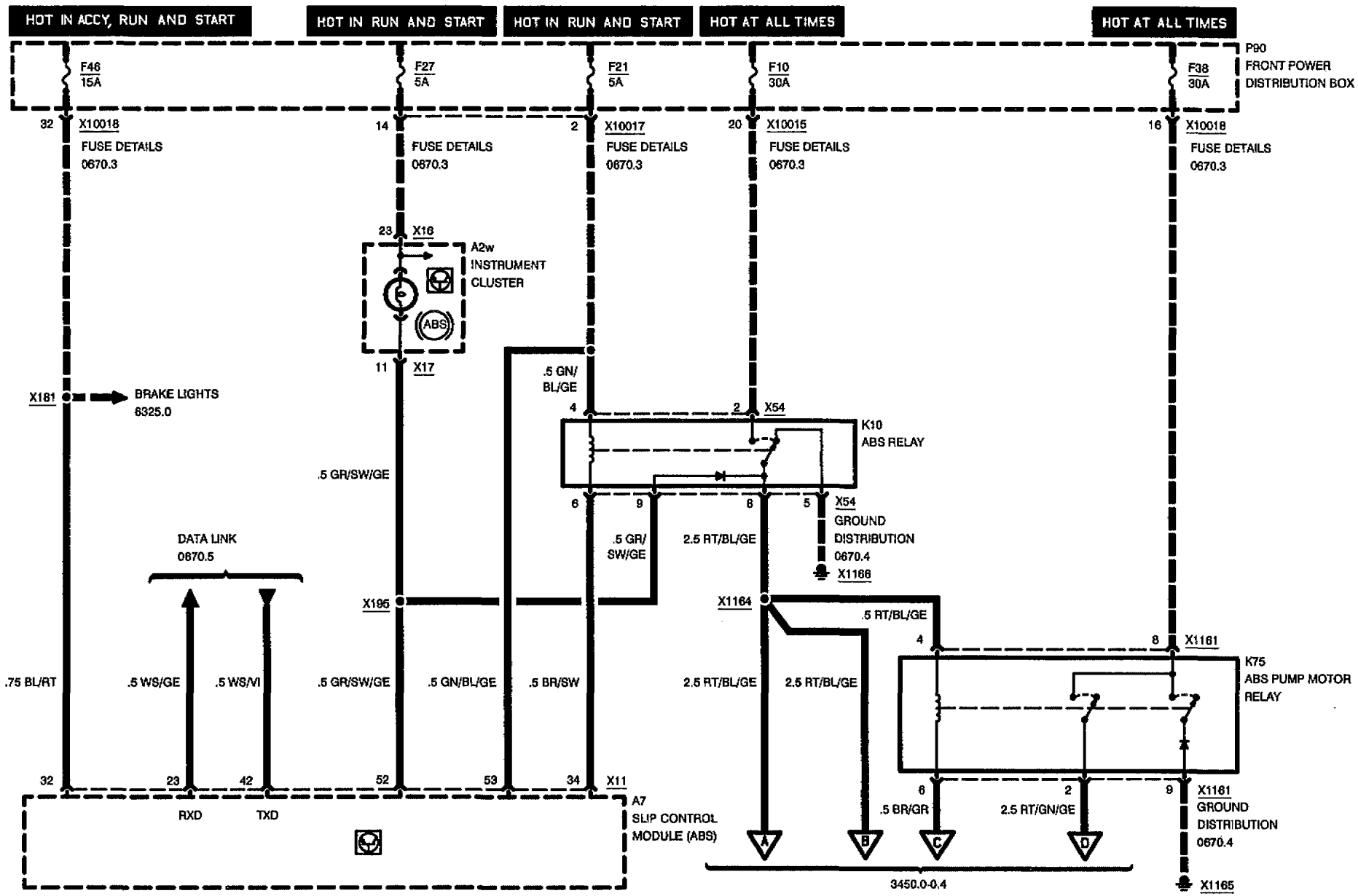
SLIP CONTROL (ABS)

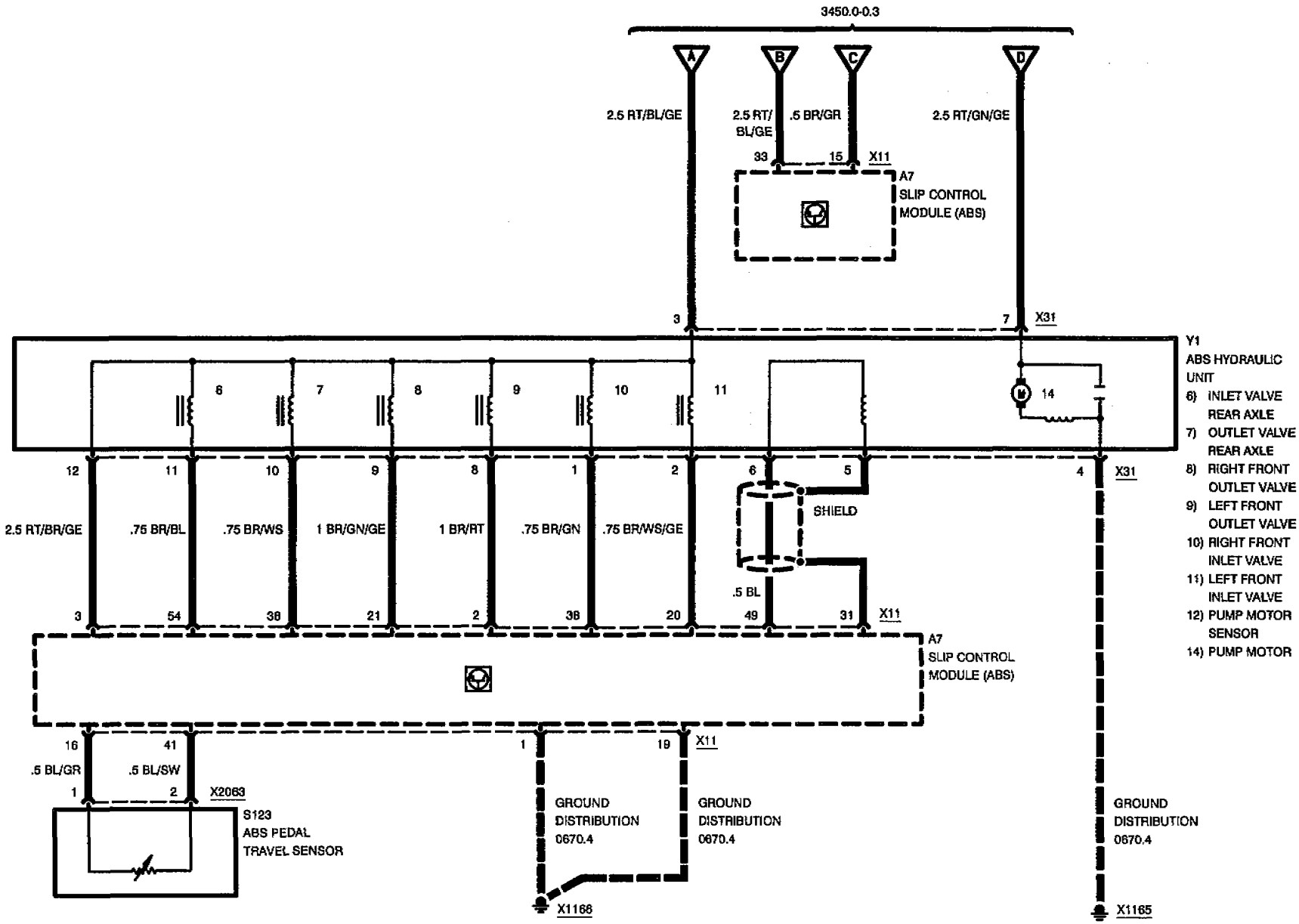


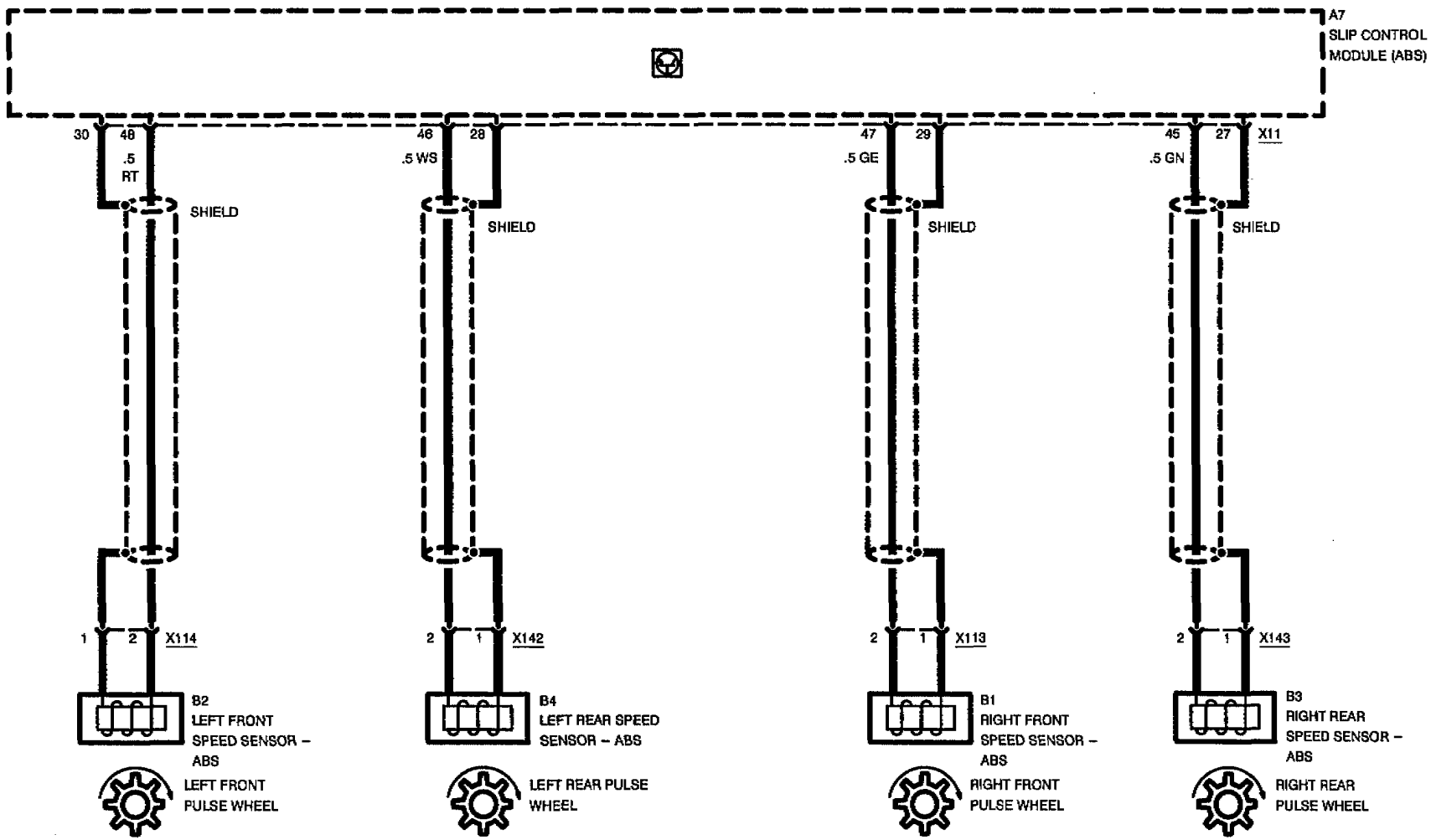

2.5 RT/GN/GE
X1055
2.5 RT/BL/GE
.5 BR/GR
.5 RT/GN/GE
2.5 RT/GN/GE
23
9
X1170
A7
SLIP CONTROL
MODULE (ABS)
3
7
X31
Y1
ABS HYDRAULIC
UNIT
6) INLET VALVE
REAR AXLE
7) OUTLET VALVE
REAR AXLE
8) RIGHT FRONT
OUTLET VALVE
9) LEFT FRONT
OUTLET VALVE
10) RIGHT FRONT
INLET VALVE
11) LEFT FRONT
INLET VALVE
13) OVER –VOLT-
AGE PROTEC-
TION
14) PUMP MOTOR
13
6
7
8
9
10
11
14
12
11
10
9
8
1
2
4
X31
.5 RT/BR/GE
.5 BR/BL
.5 BR/WS
.5 BR/GN/GE
.5 BR/RT
.5 BR/GN
.5 BR/WS/GE
DATA LINK
0670.5
.35 WS/VI
27
24
39
40
25
22
2
28
X1170
TXD
A7
SLIP CONTROL
MODULE (ABS)
17
26
41
X1170
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X1166
X1165


A7
SLIP CONTROL MODULE (ABS)
31
16
37
34
13
15
36
35
14
X1170
.5 BR
.5 BR/RT
.5 BL
.5 BR
.5 GE
.5 BR
.5 GE/SW
.5 GE/BR
1
2
X114
2
1
X142
2
1
X113
2
1
X143
B2
LEFT FRONT SPEED SENSOR – ABS
B4
LEFT REAR SPEED SENSOR – ABS
B1
RIGHT FRONT SPEED SENSOR – ABS
B3
RIGHT REAR SPEED SENSOR – ABS
3
X114
LEFT FRONT PULSE WHEEL
LEFT REAR PULSE WHEEL
3
X113
RIGHT FRONT PULSE WHEEL
RIGHT REAR PULSE WHEEL
GROUND DISTRIBUTION 0670.4
X1165
GROUND DISTRIBUTION 0670.4
X1166

SLIP CONTROL (ABS)

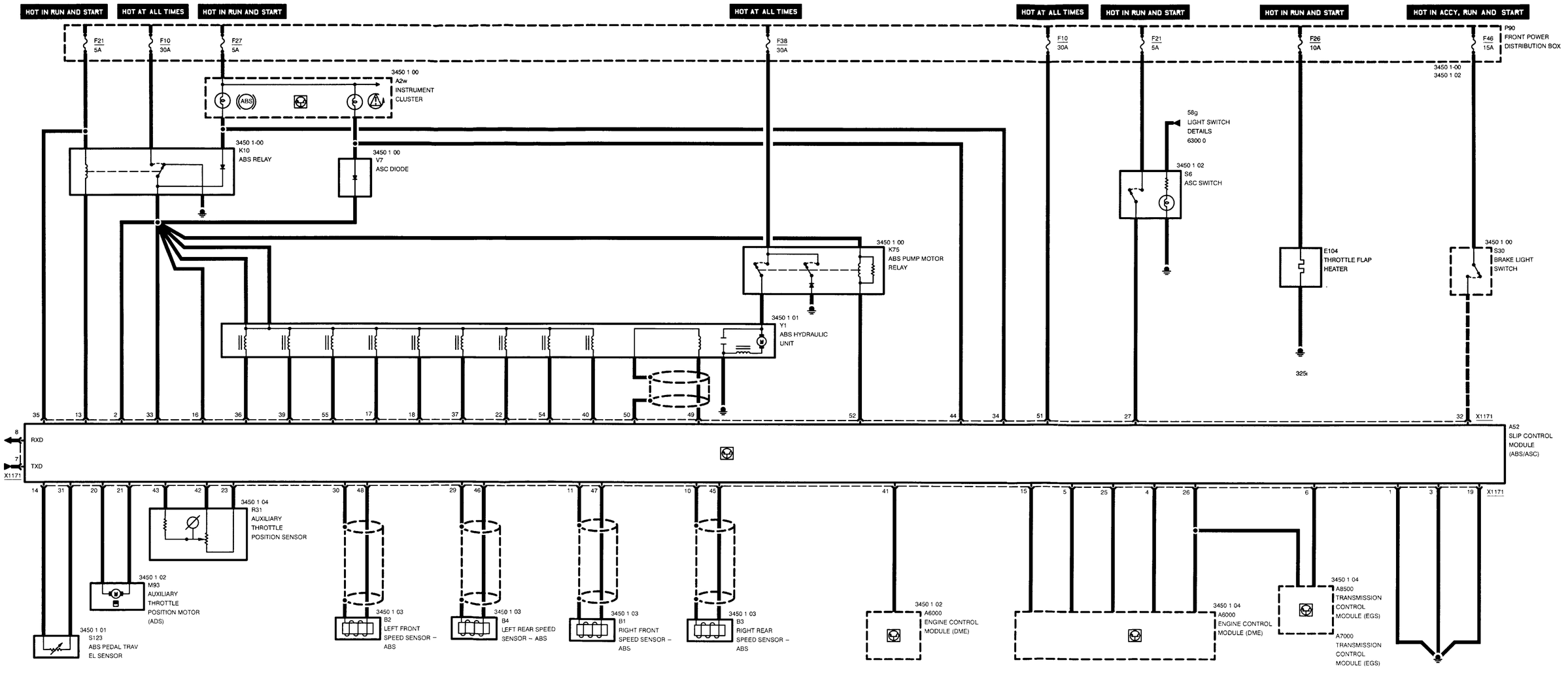



3450.0-0.3
A
B
C
D
2.5 RT/BL/GE
2.5 RT/ BL/GE
.5 BR/GR
2.5 RT/GN/GE
33
15
X11
A7
SLIP CONTROL MODULE (ABS)
3
7
X31
Y1
ABS HYDRAULIC UNIT
6) INLET VALVE REAR AXLE
7) OUTLET VALVE REAR AXLE
8) RIGHT FRONT OUTLET VALVE
9) LEFT FRONT OUTLET VALVE
10) RIGHT FRONT INLET VALVE
11) LEFT FRONT INLET VALVE
12) PUMP MOTOR SENSOR
14) PUMP MOTOR
6
7
8
9
10
11
14
12
11
10
9
8
1
2
6
5
4
X31
2.5 RT/BR/GE
.75 BR/BL
.75 BR/WS
1 BR/GN/GE
1 BR/RT
.75 BR/GN
.75 BR/WS/GE
SHIELD
.5 BL
3
54
38
21
2
38
20
49
31
X11
A7
SLIP CONTROL MODULE (ABS)
16
41
1
19
X11
.5 BL/GR
.5 BL/SW
1
2
X2063
S123
ABS PEDAL TRAVEL SENSOR
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X1168
X1165


A7
SLIP CONTROL MODULE (ABS)
30
48
.5 RT
SHIELD
1
2
X114
B2
LEFT FRONT SPEED SENSOR – ABS
LEFT FRONT PULSE WHEEL
46
28
.5 WS
SHIELD
2
1
X142
B4
LEFT REAR SPEED SENSOR – ABS
LEFT REAR PULSE WHEEL
47
29
.5 GE
SHIELD
2
1
X113
B1
RIGHT FRONT SPEED SENSOR – ABS
RIGHT FRONT PULSE WHEEL
45
27
.5 GN
X11
SHIELD
2
1
X143
B3
RIGHT REAR SPEED SENSOR – ABS
RIGHT REAR PULSE WHEEL

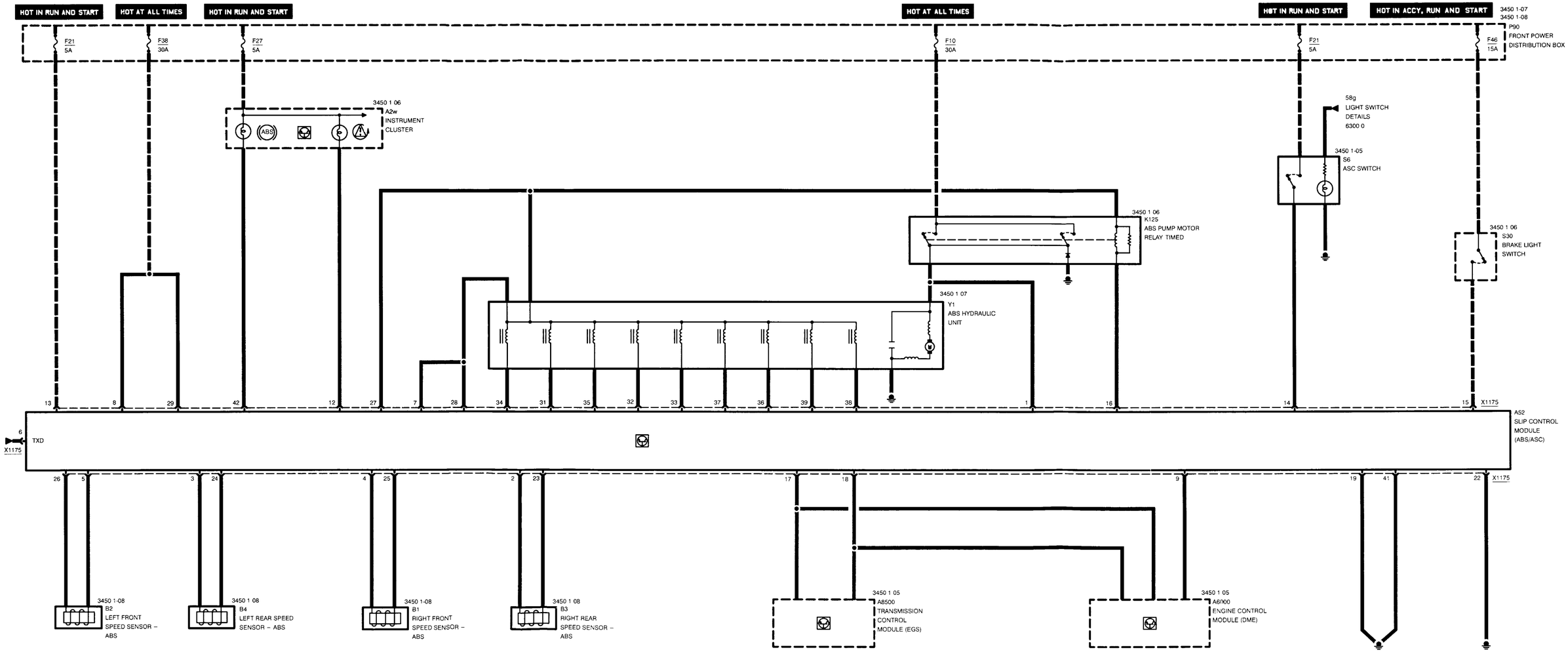
04/97 — 3450 1a — 1996
04/97 — 3450 1a — 1996

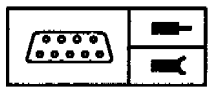
325i, 328i, M3



04/97 — 3450 1b — 1996
04/97 — 3450 1b — 1996

318is





Pin Assignments (325i, 328i, M3)

X1171

Pin	Type	Description/Function	Connection
1	M	Ground	Ground
2	E	Battery voltage	ABS relay
3	M	Ground, module	Ground
4	E	Ignition cut-off signal	DME module
5	A	EML-signal	DME module
6	A	Transmission influence	EGS module
7	E/A	TxD signal	Diagnostic link
8	A	RxD signal	Diagnostic link
9		Not used	
10	A	Sensor ground	ABS speed sensor rear right
11	A	Sensor ground	ABS speed sensor front right
12		Not used	
13	A	ABS power protection relay	ABS power protection relay
14	E	Signal ABS travel sensor	ABS travel sensor
15	E	Speed sensor signal right rear	DME module
16	E	Current	ABS relay
17	A	Solenoid valve signal left rear	ABS hydraulic unit
18	A	Solenoid valve signal left rear	ABS hydraulic unit
19	M	Ground	Ground
20	A	ADS step motor	ADS step motor
21	A	ADS step motor	ADS step motor
22	A	Solenoid valve signal right front	ABS hydraulic unit
23	E	ASC throttle flap potentiometer	ASC throttle flap motor
24		Not used	
25	E	Signal idle speed	DME module
26	A	Throttle flap position	DME module
27	E	ASC switch signal	ASC switch
28		Not used	
29	A	Sensor ground	ABS speed sensor rear left
30	A	Sensor gound	ABS speed sensor front left

E = Input, A = Output, M = Ground



Pin Assignments (325i, 328i, M3)

Pin	Type	Description/Function	Connection
31	A	Signal ABS travel sensor	ABS travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS protection relay
34	A	ABS lamp control	Instrument cluster
35	E	Ignition signal	Ignition switch
36	A	Solenoid valve	ABS hydraulic unit
37	A	Solenoid valve signal right front	ABS hydraulic unit
38		Not used	
39	A	Solenoid valve signal left rear	ABS hydraulic unit
40	A	Solenoid valve signal left front	ABS hydraulic unit
41	E	Speed signal	DME module
42	E	ASC throttle flap potentiometer	ASC throttle flap potentiometer
43	E	ASC throttle flap potentiometer	ASC throttle flap potentiometer
44	A	ASC lamp control	Instrument cluster
45	E	Speed sensor signal rear right	Speed sensor rear right
46	E	Speed sensor signal rear left	Speed sensor rear left
47	E	Speed sensor signal front right	Speed sensor front right
48	E	Speed sensor signal front left	Speed sensor front left
49	E	Pump motor sensor signal	ABS hydraulic unit
50	E	Shield pump motor sensor	ABS hydraulic unit
51	E	Plus supply	Front power distribution box
52	A	ABS pump motor relay	ABS pump motor relay
53		Not used	
54	A	Solenoid valve signal left front	ABS hydraulic unit
55	A	Solenoid valve signal left rear	ABS hydraulic unit

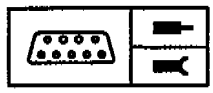
E = Input, A = Output, M = Ground

Pin Assignments (318is)

X1175

Pin	Type	Description/Function	Connection
1	E	Signal pump motor	ABS pump motor relay
2	A	Sensor ground	Right rear speed sensor - ABS
3	A	Sensor gound	Left rear speed sensor - ABS
4	A	Sensor ground	Right front speed sensor - ABS
5	A	Sensor ground	Leftt front speed sensor - ABS
6	E/A	TxD diagnostic data link	Data link connector
7	A	Signal ABS	ABS hydraulic unit
8	E	Voltage supply	Fuse 38
9	A	Speed signal right rear	DME-module
10		Not used	
11		Not used	
12	A	Signal ASC	Instrument cluster
13	E	Voltage supply	Fuse 21
14	E	Signal ASC	ASC switch
15	E	Brake pedal position	Brake light switch
16	A	Activate relay	ABS pump motor relay
17	E/A	CAN HIGH	DME/EGS module
18	E/A	CAN LOW	DME/EGS module
19	M	Ground	Ground point
20		Not used	
21		Not used	
22	M	Ground	Ground point
23	E	Speed signal	Right rear speed sensor - ABS
24	E	Speed signal	Left rear speed sensor- ABS
25	E	Speed signal	Right front speed sensor - ABS
26	E	Speed signal	Left front speed sensor - ABS
27	A	Signal ABS	ABS pump motor relay/Hydraulic unit
28	A	Signal ABS	ABS hydraulic unit
29	E	Voltage supply	Fuse 38
30		Not used	

E = Input, A = Output, M = Ground

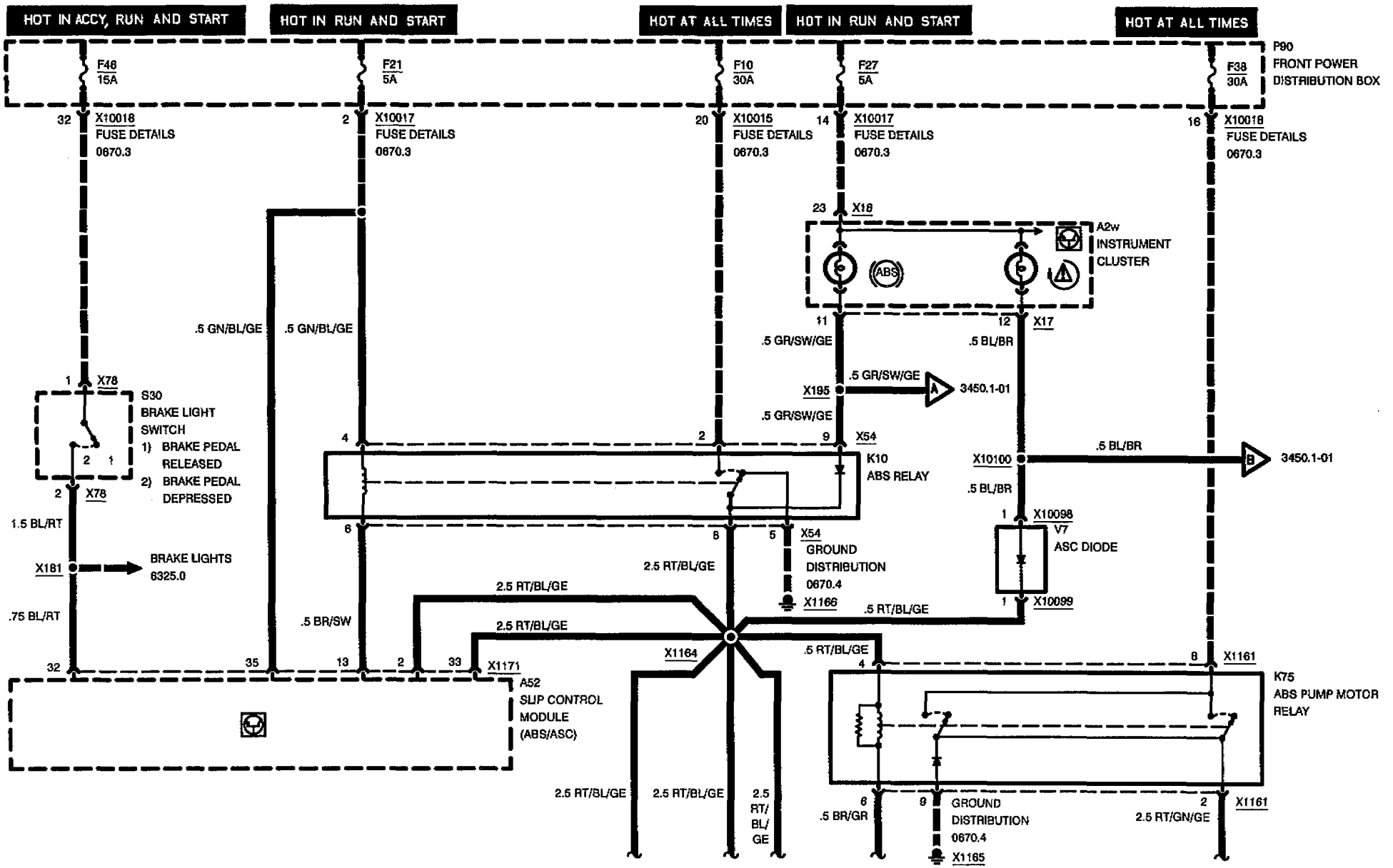


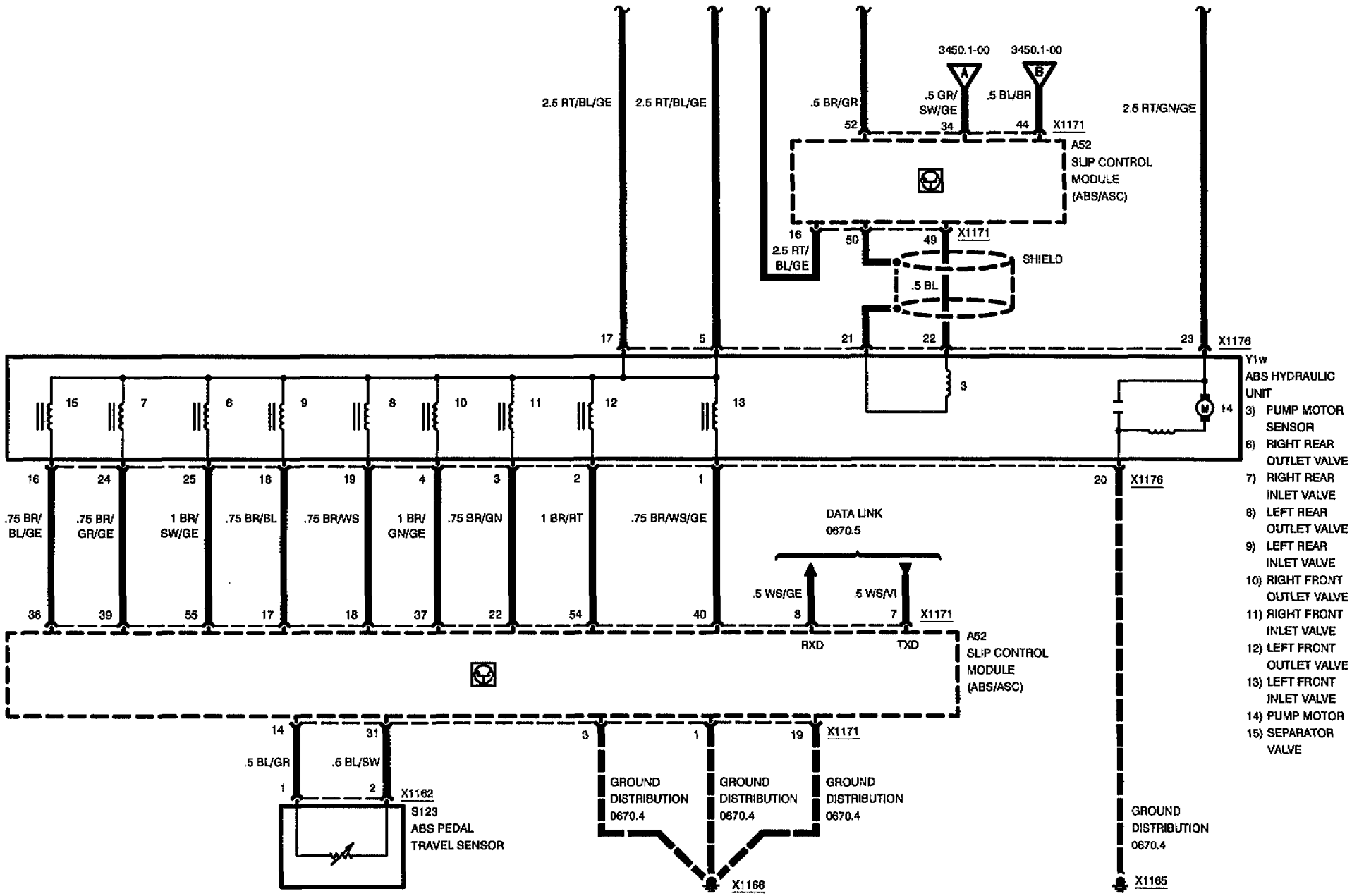
Pin Assignments (318is)

Pin	Type	Description/Function	Connection
31	A	Seperator valve	ABS hydraulic unit
32	A	Left rear inlet valve	ABS hydraulic unit
33	A	Left rear outlet valve	ABS hydraulic unit
34	A	Right rear inlet valve	ABS hydraulic unit
35	A	Right rear outlet valve	ABS hydraulic unit
36	A	Left front outlet valve	ABS hydraulic unit
37	A	Right front outlet valve	ABS hydraulic unit
38	A	Left front inlet valve	ABS hydraulic unit
39	A	Right front inlet valve	ABS hydraulic unit
40		Not used	
41	M	Ground	Ground point
42	A	ABS signal	Instrument cluster

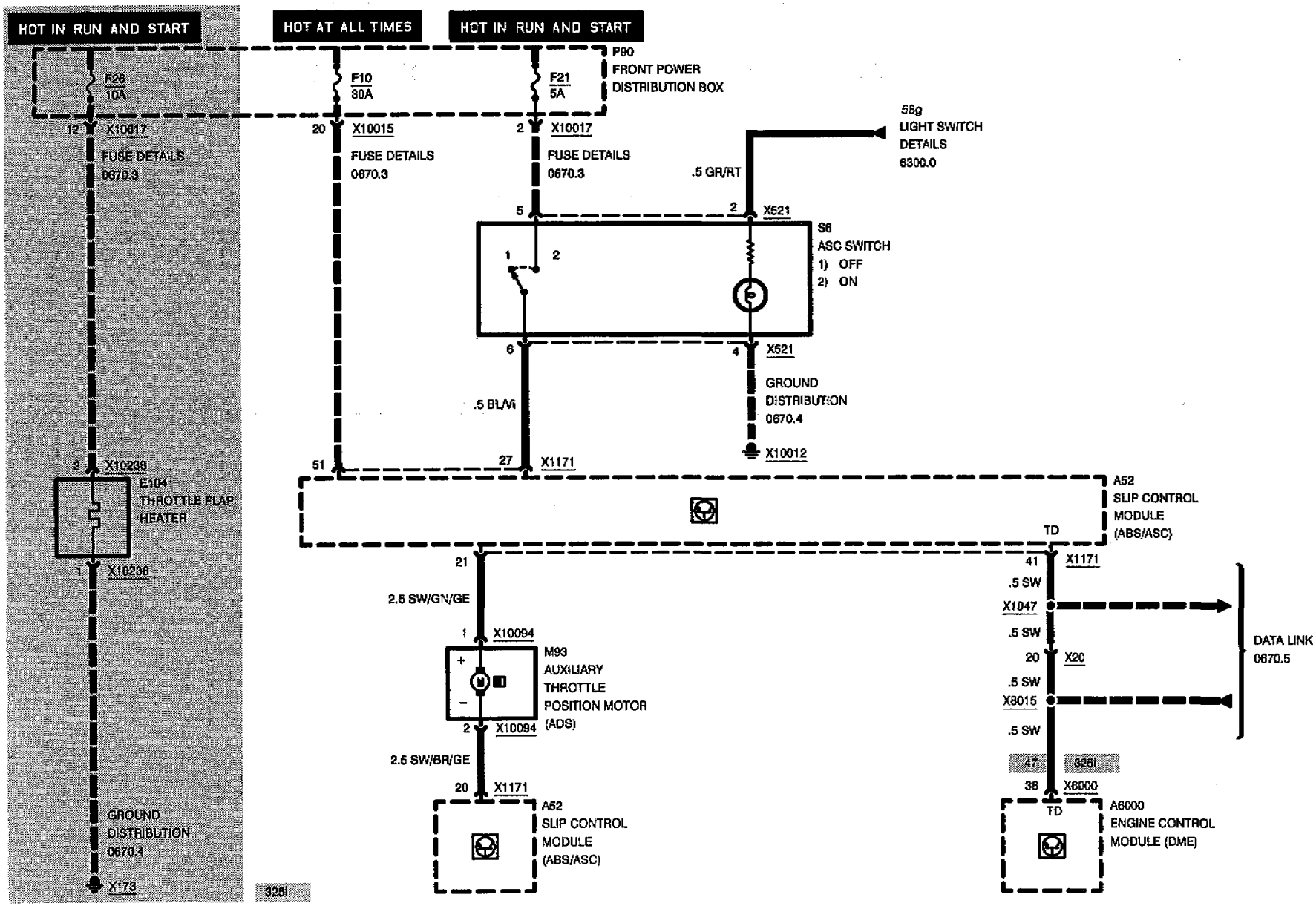
E = Input, A = Output, M = Ground

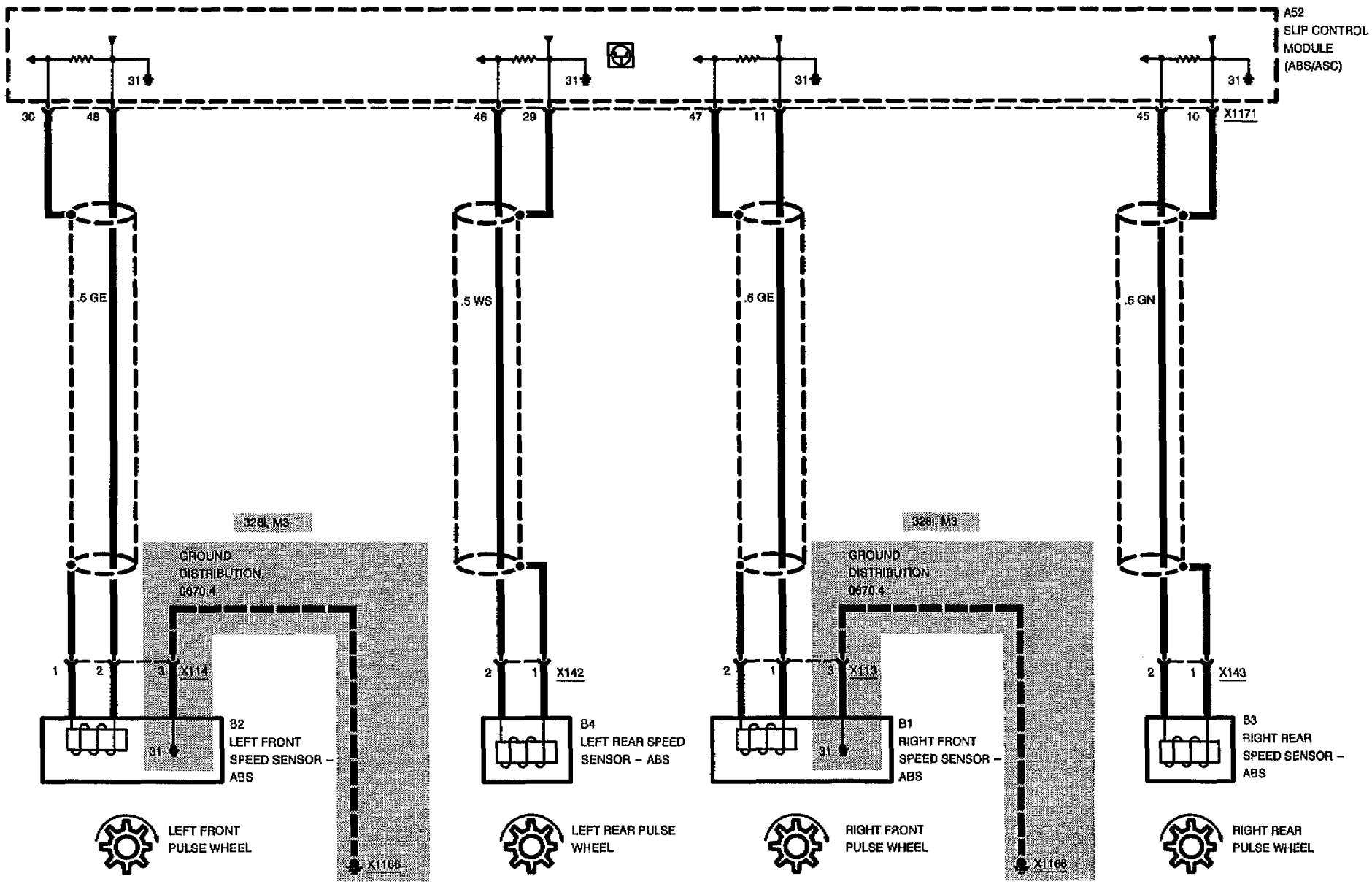
SLIP CONTROL (ABS/ASC)




3450.1-00
3450.1-00
2.5 RT/BL/GE
2.5 RT/BL/GE
.5 BR/GR
.5 GR/ SW/GE
.5 BL/BR
2.5 RT/GN/GE
52
34
44
X1171
A52
SLIP CONTROL MODULE (ABS/ASC)
16
2.5 RT/ BL/GE
50
49
X1171
SHIELD
.5 BL
17
5
21
22
23
X1176
Y1w
ABS HYDRAULIC UNIT
3) PUMP MOTOR SENSOR
6) RIGHT REAR OUTLET VALVE
7) RIGHT REAR INLET VALVE
8) LEFT REAR OUTLET VALVE
9) LEFT REAR INLET VALVE
10) RIGHT FRONT OUTLET VALVE
11) RIGHT FRONT INLET VALVE
12) LEFT FRONT OUTLET VALVE
13) LEFT FRONT INLET VALVE
14) PUMP MOTOR
15) SEPARATOR VALVE
15
7
6
9
8
10
11
12
13
3
14
16
24
25
18
19
4
3
2
1
20
X1176
.75 BR/ BL/GE
.75 BR/ GR/GE
1 BR/ SW/GE
.75 BR/BL
.75 BR/WS
1 BR/ GN/GE
.75 BR/GN
1 BR/RT
.75 BR/WS/GE
DATA LINK 0670.5
.5 WS/GE
.5 WS/VI
36
39
55
17
18
37
22
54
40
8
7
X1171
RXD
TXD
A52
SLIP CONTROL MODULE (ABS/ASC)
14
31
.5 BL/GR
.5 BL/SW
1
2
X1162
S123
ABS PEDAL TRAVEL SENSOR
3
1
19
X1171
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X1168
GROUND DISTRIBUTION 0670.4
X1165

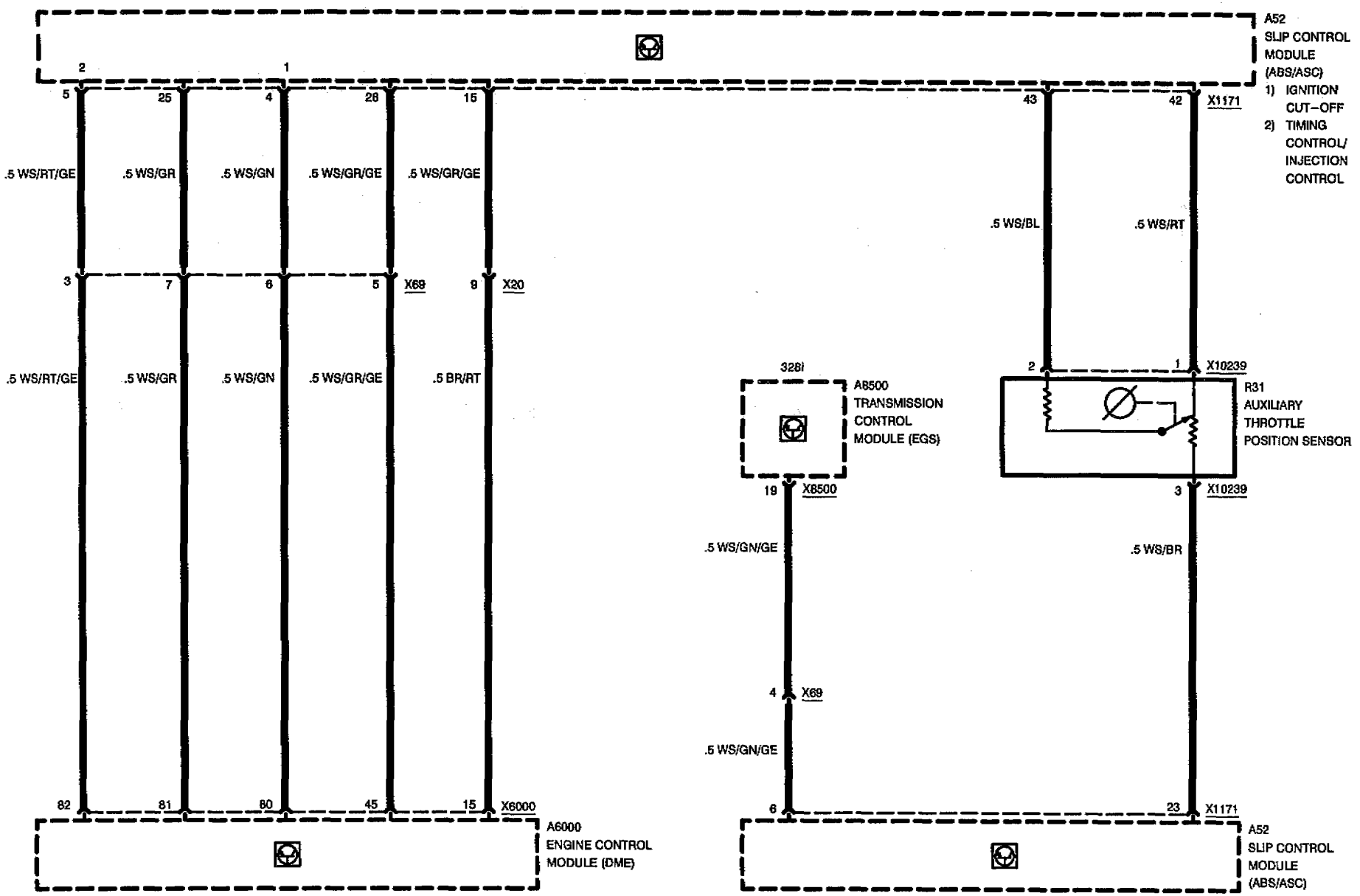
SLIP CONTROL (ABS/ASC)




A52
SLIP CONTROL
MODULE
(ABS/ASC)
30
48
46
29
47
11
45
10
X1171
31
.5 GE
.5 WS
.5 GE
.5 GN
328i, M3
GROUND
DISTRIBUTION
0670.4
1
2
3
X114
X142
X113
X143
B2
LEFT FRONT
SPEED SENSOR –
ABS
B4
LEFT REAR SPEED
SENSOR – ABS
B1
RIGHT FRONT
SPEED SENSOR –
ABS
B3
RIGHT REAR
SPEED SENSOR –
ABS
LEFT FRONT
PULSE WHEEL
LEFT REAR PULSE
WHEEL
RIGHT FRONT
PULSE WHEEL
RIGHT REAR
PULSE WHEEL
X1168

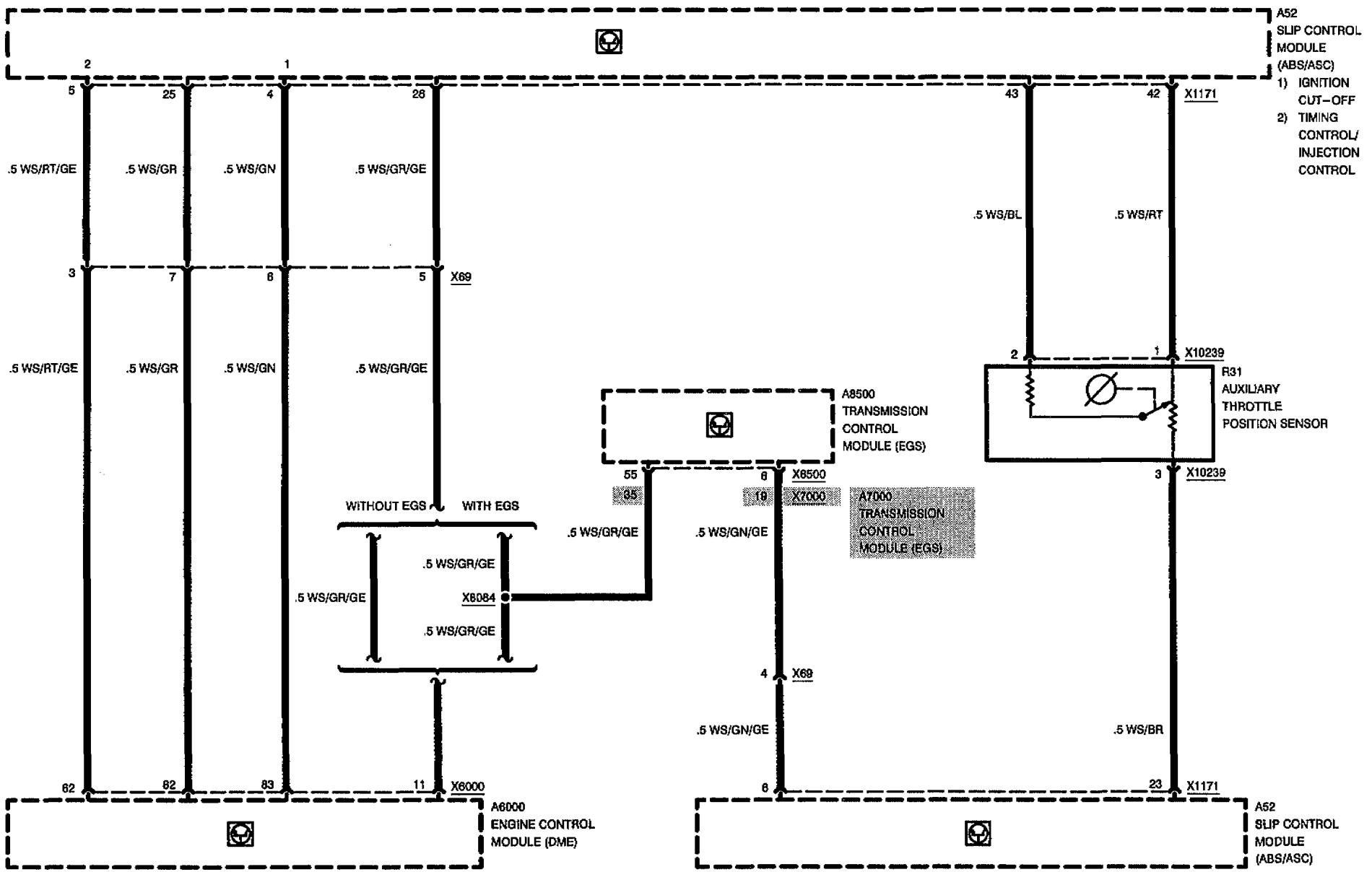
SLIP CONTROL (ABS/ASC)

328i, M3



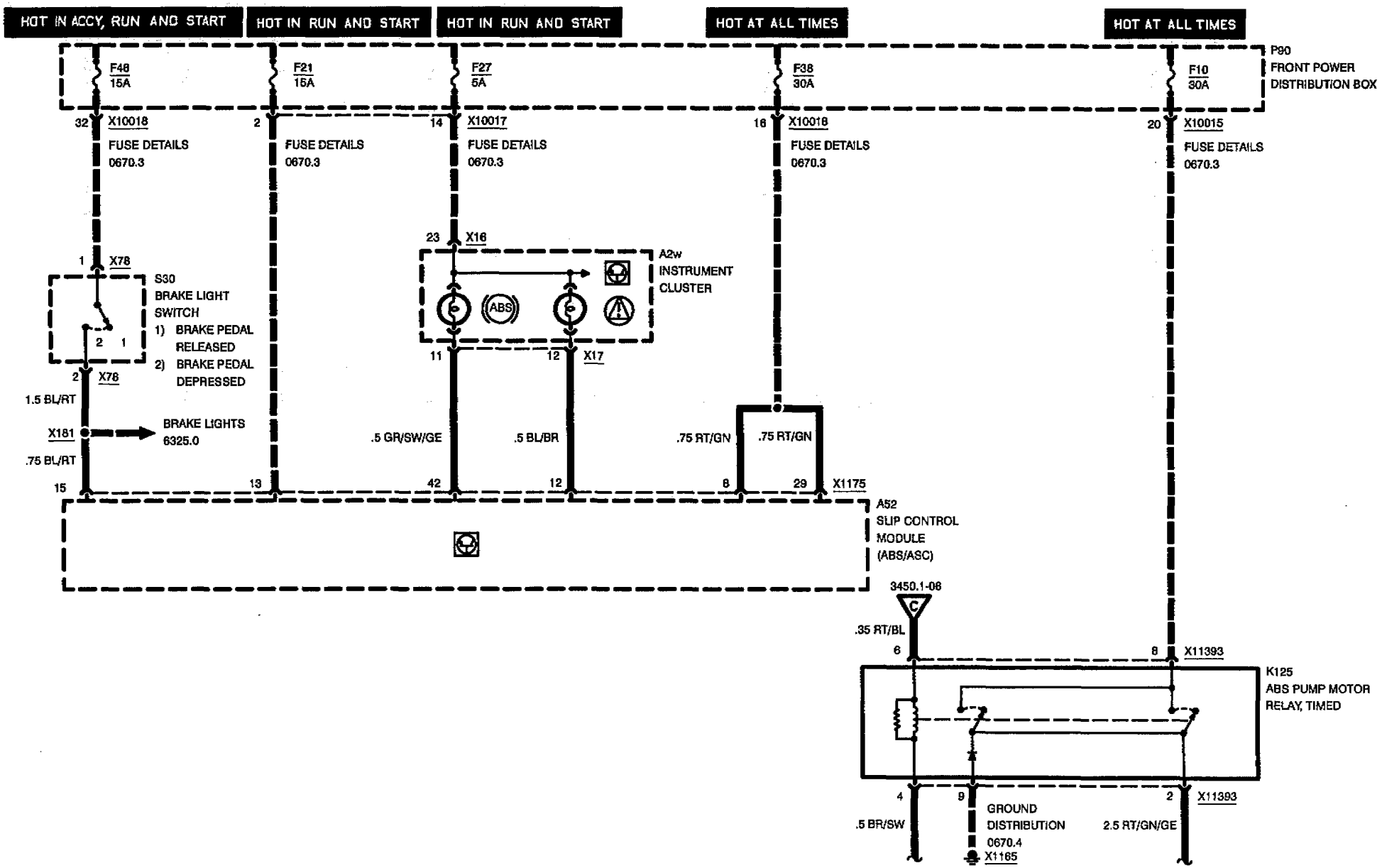
SLIP CONTROL (ABS/ASC)

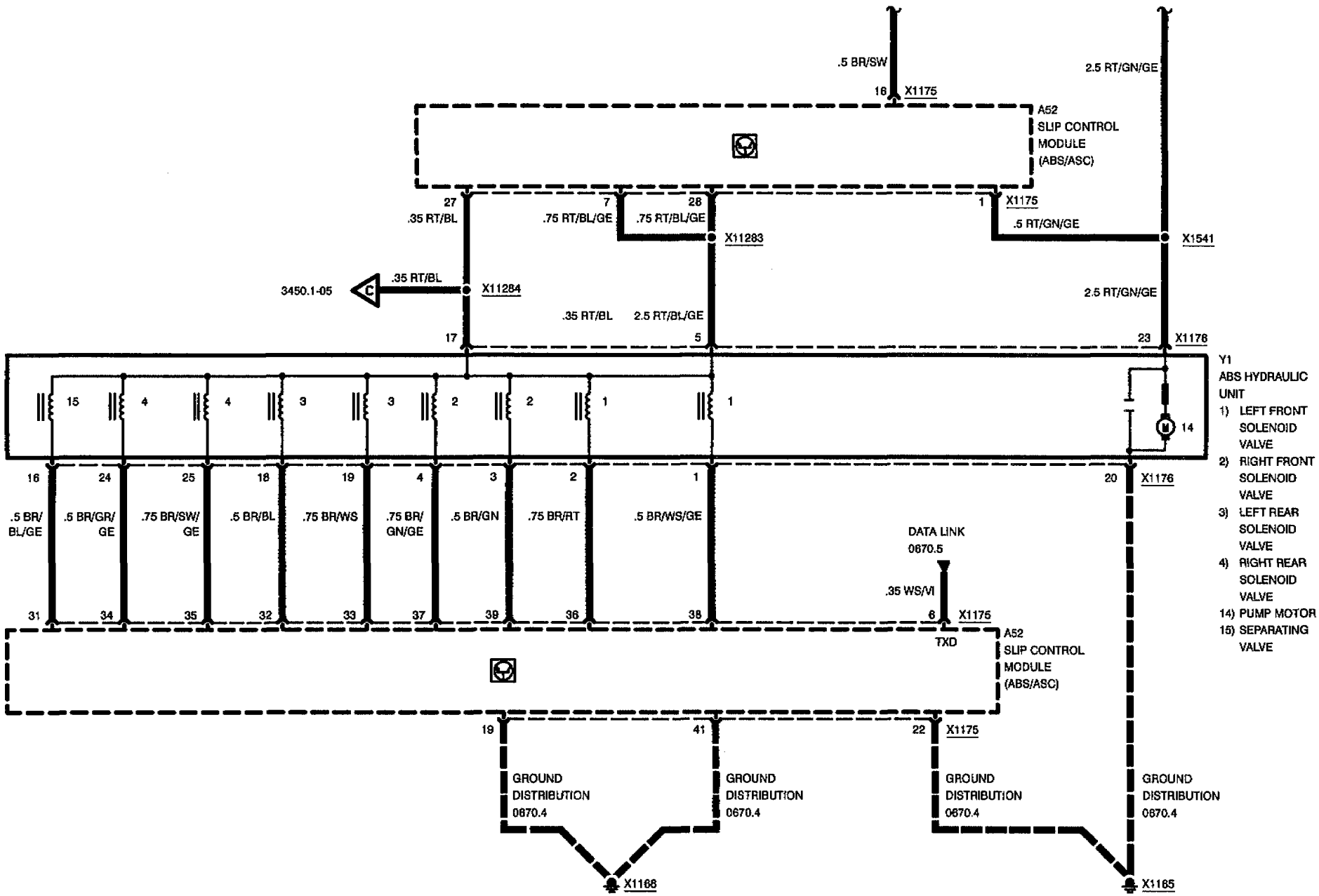
325i, M3 (USA)



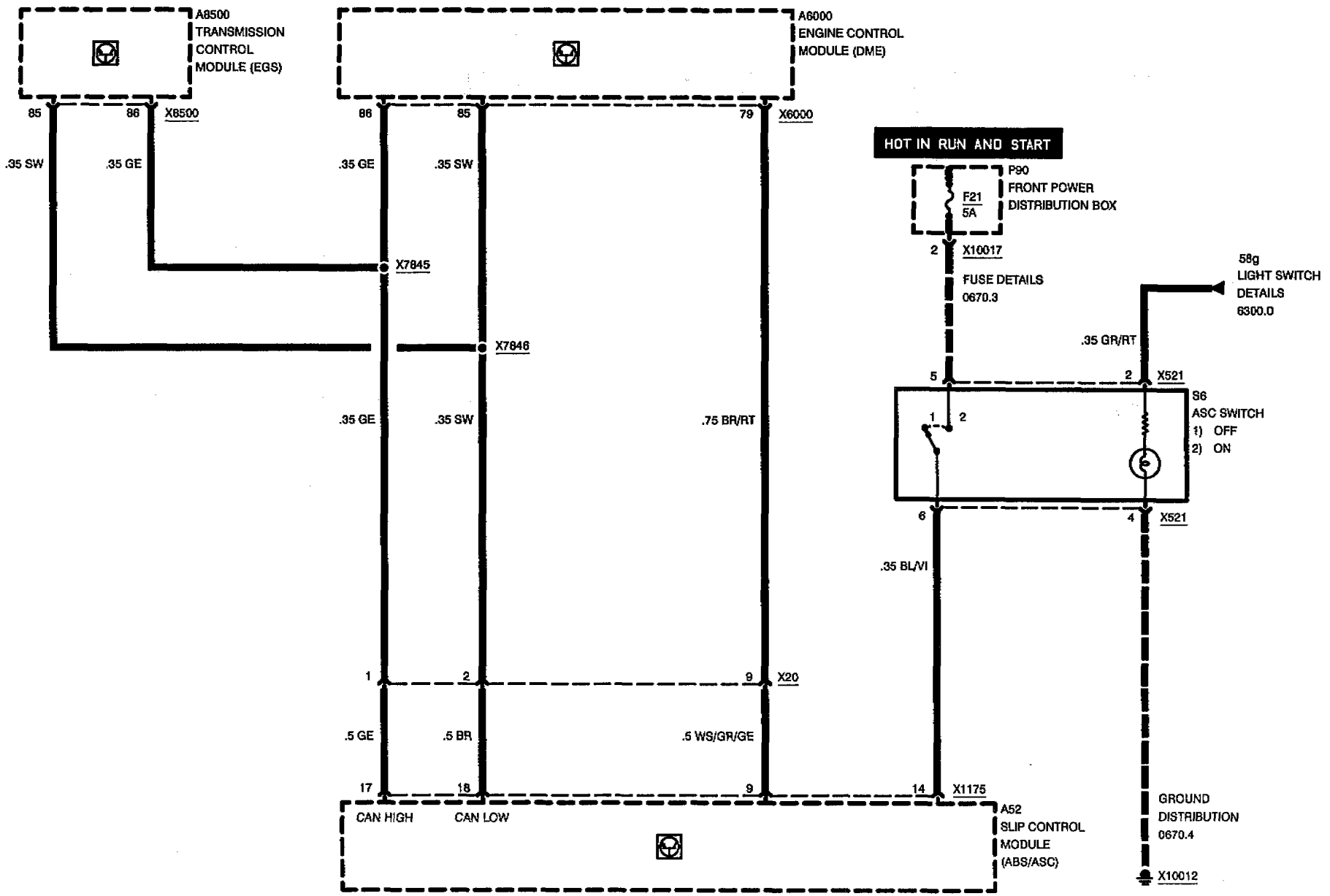
SLIP CONTROL (ABS/ASC)

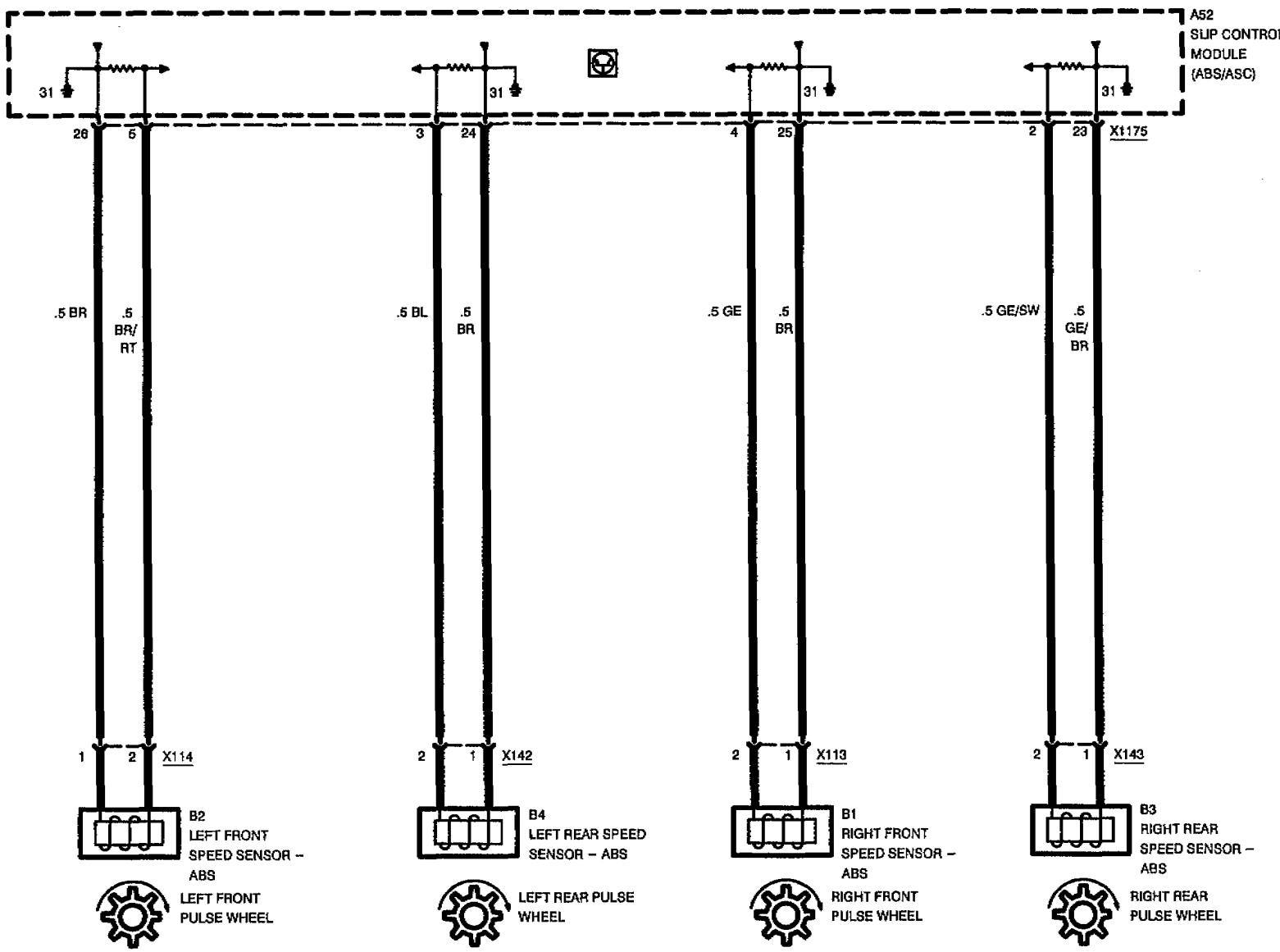
318is

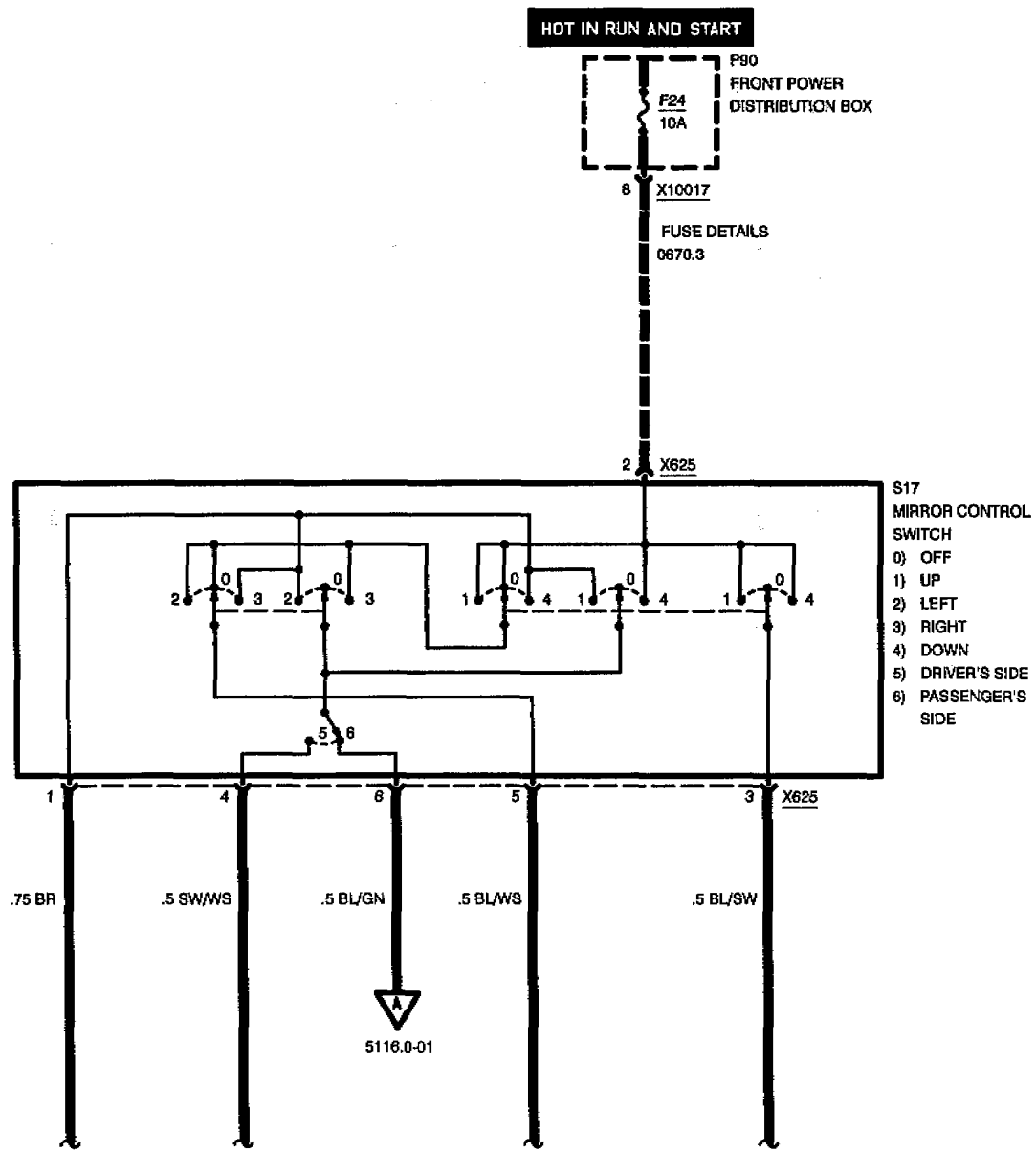


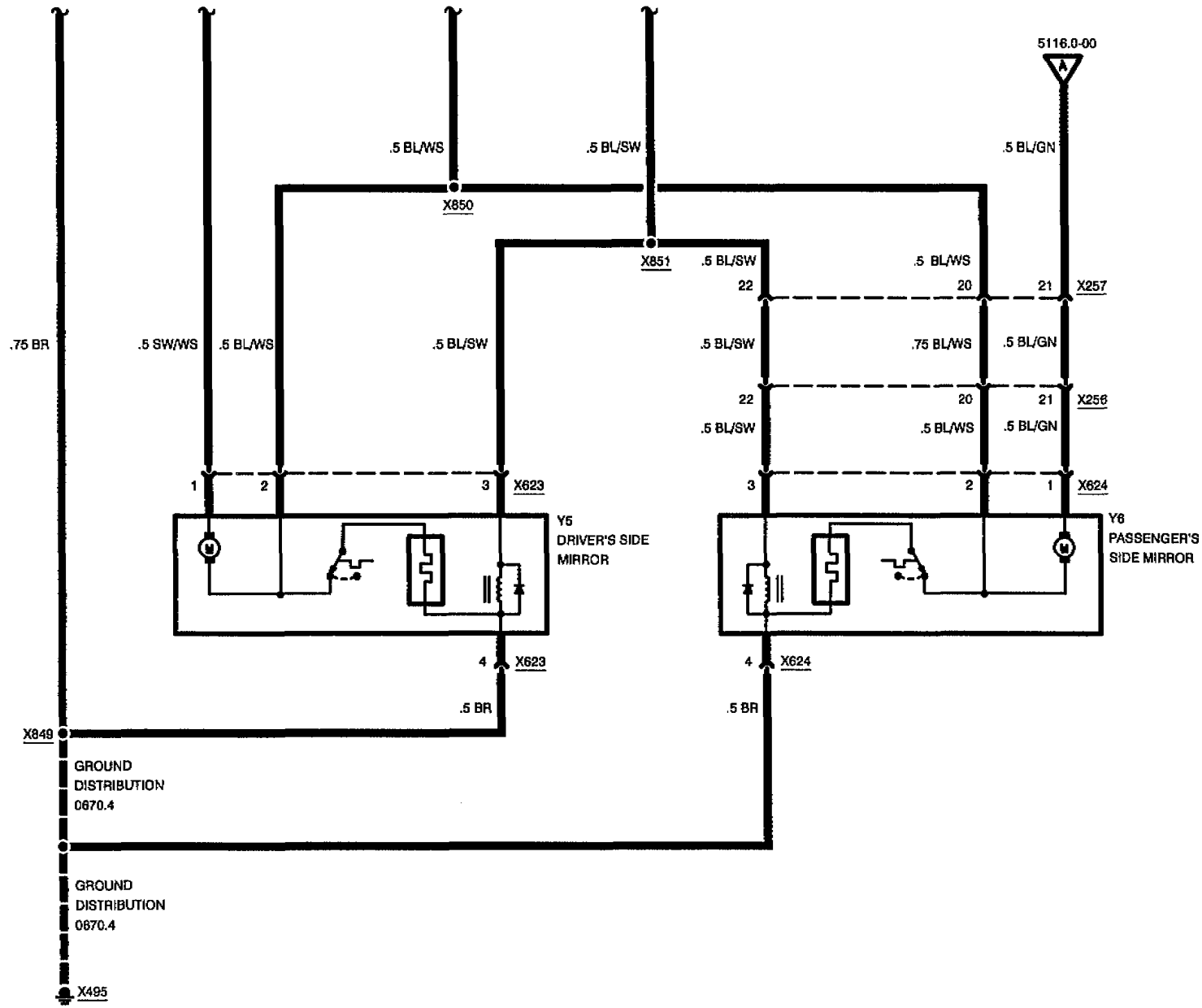

.5 BR/SW
16 X1175
2.5 RT/GN/GE
A52
SLIP CONTROL
MODULE
(ABS/ASC)
27
.35 RT/BL
7
.75 RT/BL/GE
26
.75 RT/BL/GE
X11283
1 X1175
.5 RT/GN/GE
X1541
3450.1-05
.35 RT/BL
X11284
2.5 RT/GN/GE
.35 RT/BL
2.5 RT/BL/GE
17
5
23 X1176
Y1
ABS HYDRAULIC
UNIT
1) LEFT FRONT
SOLENOID
VALVE
2) RIGHT FRONT
SOLENOID
VALVE
3) LEFT REAR
SOLENOID
VALVE
4) RIGHT REAR
SOLENOID
VALVE
14) PUMP MOTOR
15) SEPARATING
VALVE
15 4 4 3 3 2 2 1 1
14
16 24 25 18 19 4 3 2 1
20 X1176
.5 BR/
BL/GE
.5 BR/GR/
GE
.75 BR/SW/
GE
.5 BR/BL
.75 BR/WS
.75 BR/
GN/GE
.5 BR/GN
.75 BR/RT
.5 BR/WS/GE
DATA LINK
0670.5
.35 WS/VI
31 34 35 32 33 37 39 36 38
6 X1175
TXD
A52
SLIP CONTROL
MODULE
(ABS/ASC)
19 41
22 X1175
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X1168
X1165

SLIP CONTROL (ABS/ASC)



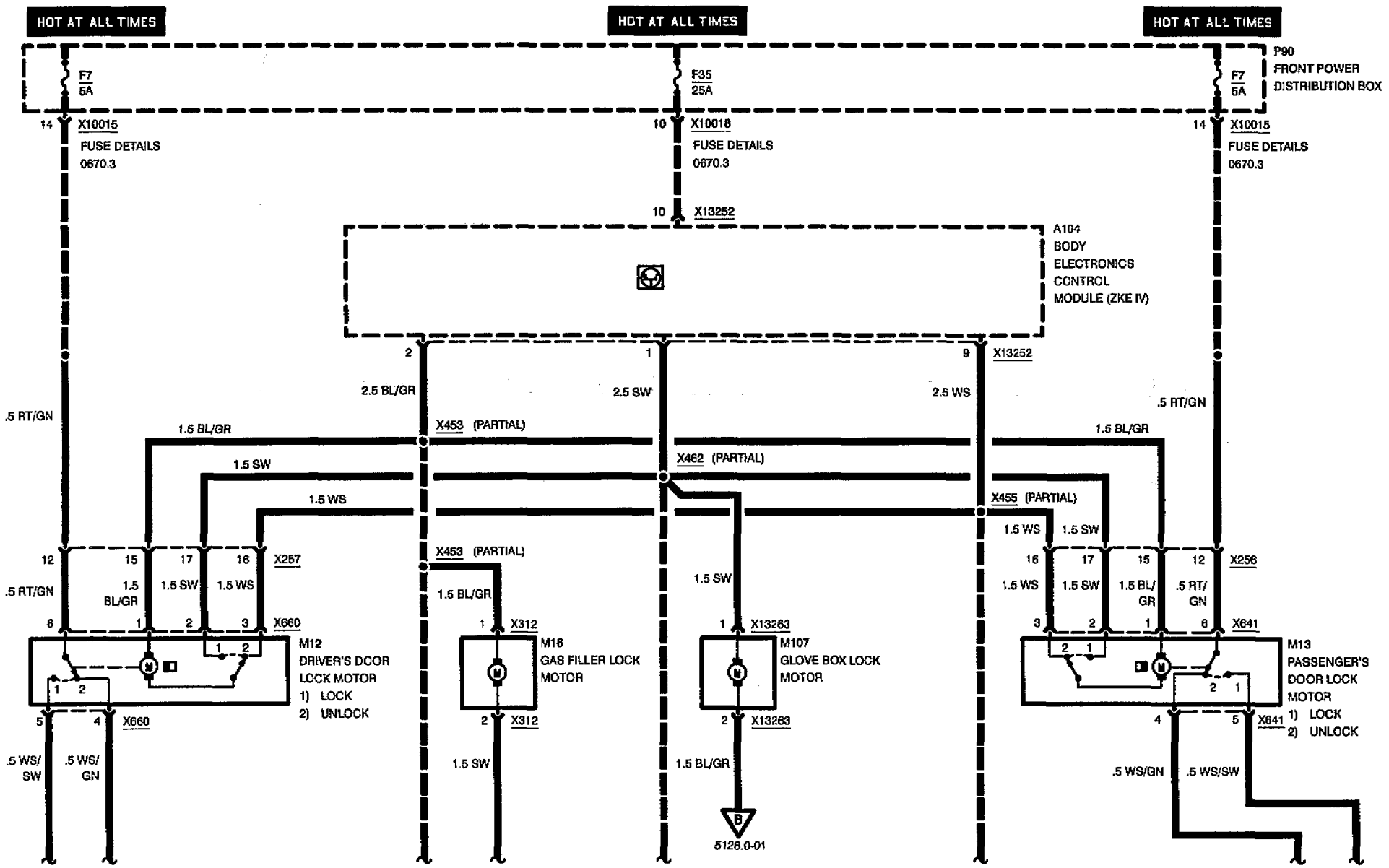

A52
SLIP CONTROL
MODULE
(ABS/ASC)
31
31
31
31
26
5
3
24
4
25
2
23
X1175
.5 BR
.5
BR/
RT
.5 BL
.5
BR
.5 GE
.5
BR
.5 GE/SW
.5
GE/
BR
1
2
X114
2
1
X142
2
1
X113
2
1
X143
B2
LEFT FRONT
SPEED SENSOR –
ABS
LEFT FRONT
PULSE WHEEL
B4
LEFT REAR SPEED
SENSOR – ABS
LEFT REAR PULSE
WHEEL
B1
RIGHT FRONT
SPEED SENSOR –
ABS
RIGHT FRONT
PULSE WHEEL
B3
RIGHT REAR
SPEED SENSOR –
ABS
RIGHT REAR
PULSE WHEEL

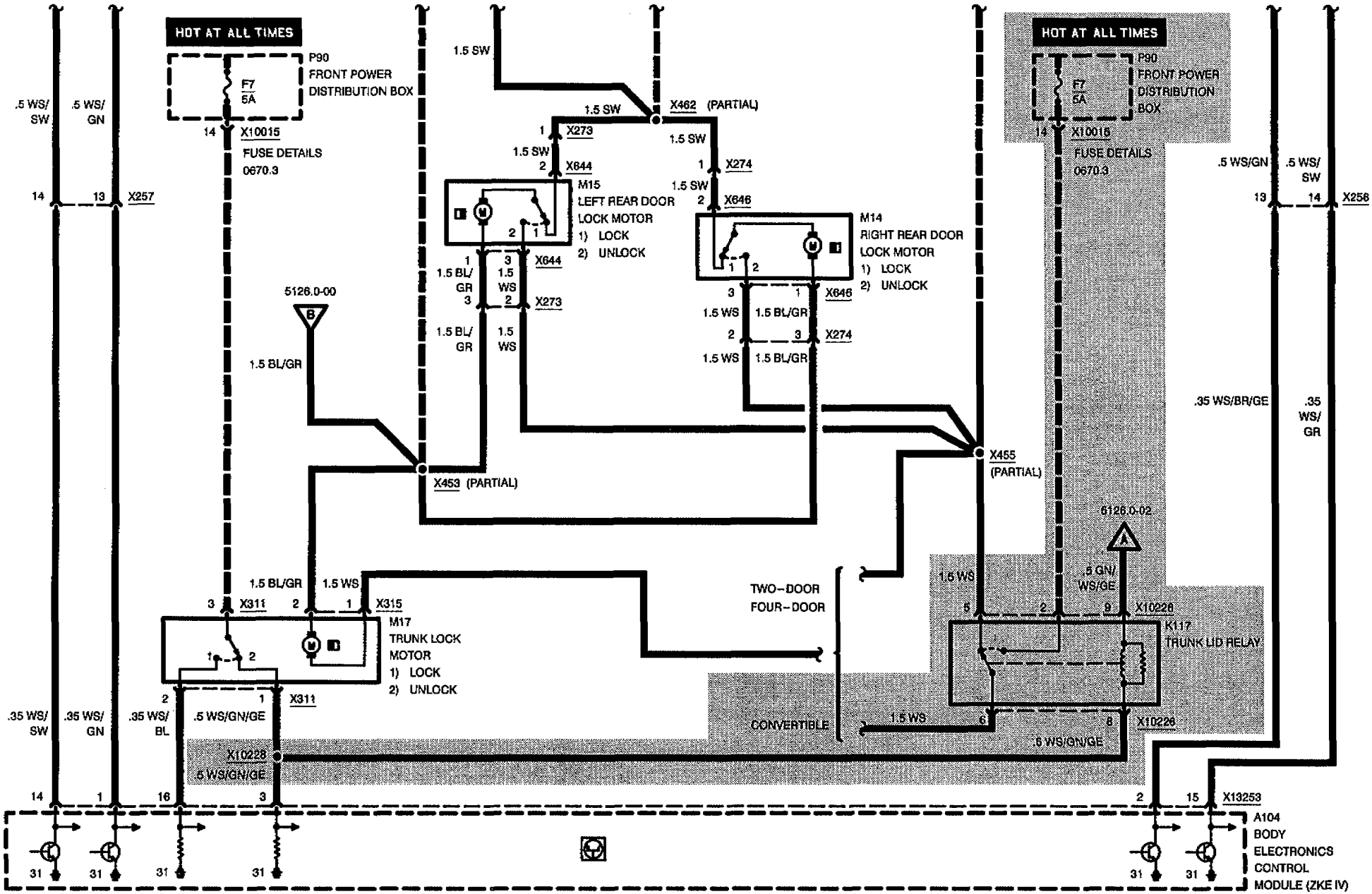

HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F24
10A
8 X10017
FUSE DETAILS
0670.3
2 X625
S17
MIRROR CONTROL
SWITCH
0) OFF
1) UP
2) LEFT
3) RIGHT
4) DOWN
5) DRIVER'S SIDE
6) PASSENGER'S
SIDE
1
4
6
5
3 X625
.75 BR
.5 SW/WS
.5 BL/GN
.5 BL/WS
.5 BL/SW
A
5116.0-01


5116.0-00
A
.5 BL/WS
.5 BL/SW
.5 BL/GN
X850
X851
.5 BL/SW
22
.5 BL/WS
20
21
X257
.75 BR
.5 SW/WS
.5 BL/WS
.5 BL/SW
.5 BL/SW
.75 BL/WS
.5 BL/GN
22
20
21
X256
.5 BL/SW
.5 BL/WS
.5 BL/GN
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
.5 BR
.5 BR
X849
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X495

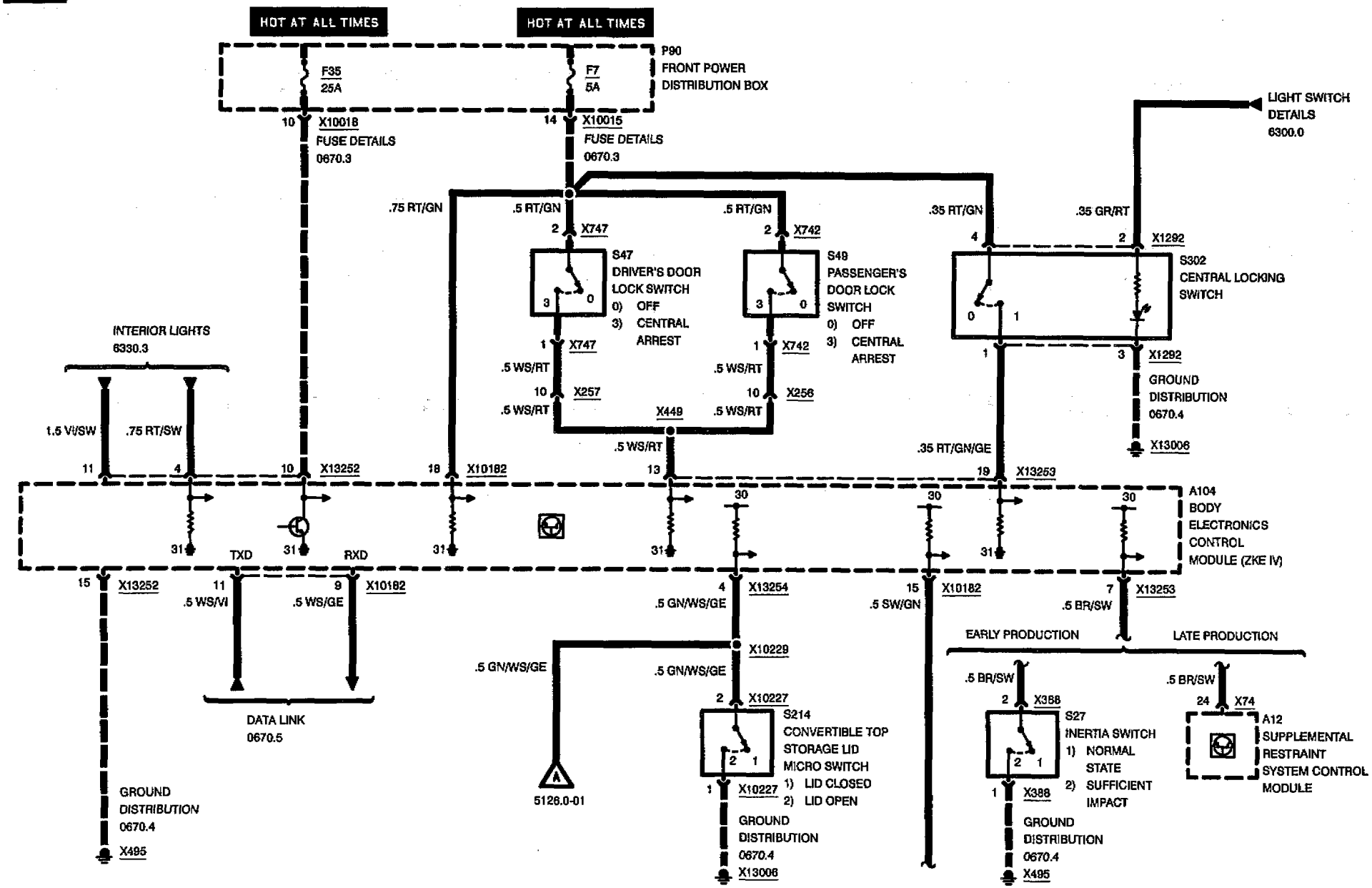
ZKE CENTRAL LOCKING (ZV)

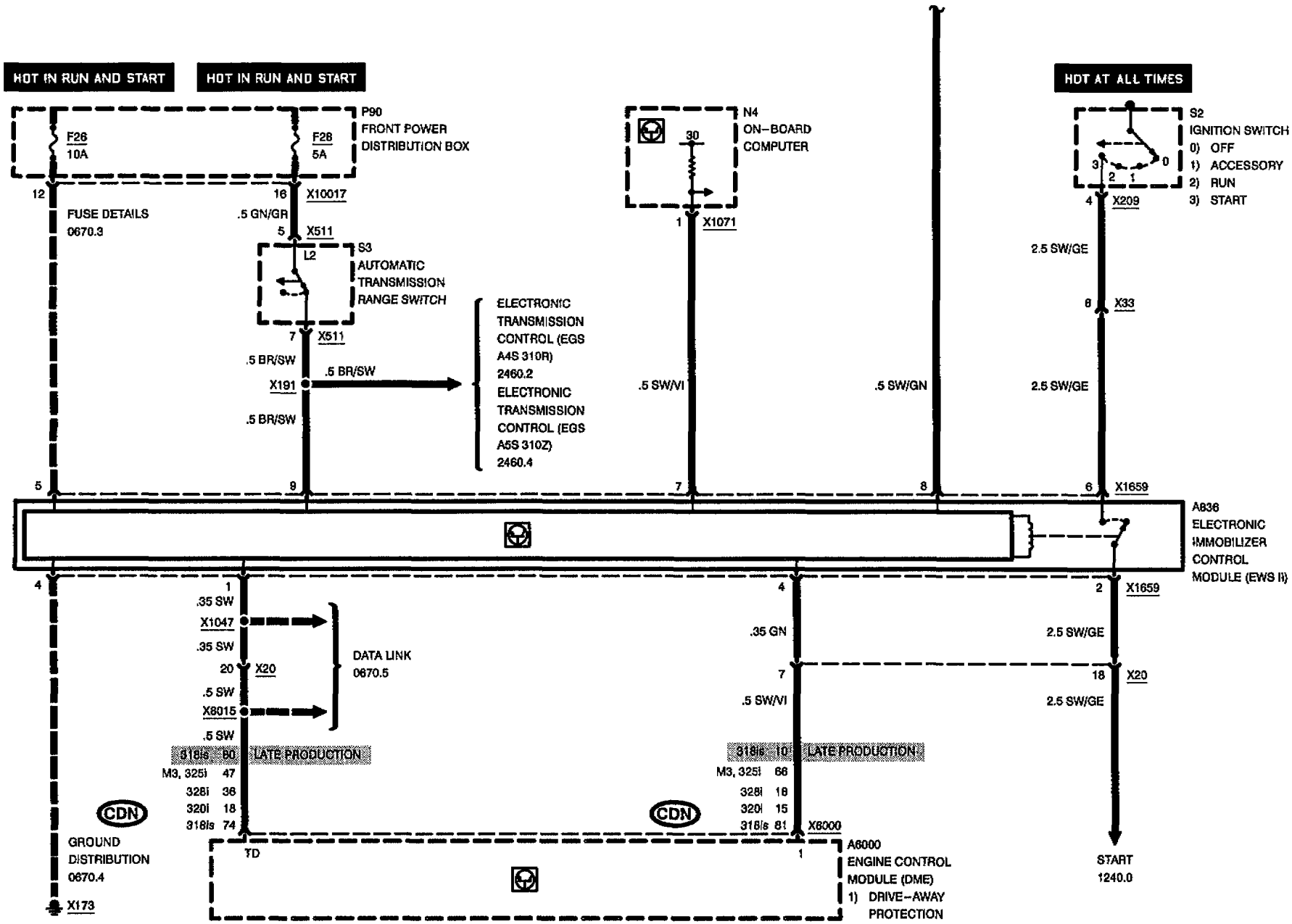
OUTPUT DETAILS




HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F7
5A
X10015
FUSE DETAILS
0670.3
.5 WS/
SW
.5 WS/
GN
X257
1.5 SW
X462 (PARTIAL)
X273
X644
M15
LEFT REAR DOOR
LOCK MOTOR
1) LOCK
2) UNLOCK
1.5 BL/
GR
1.5
WS
X646
M14
RIGHT REAR DOOR
LOCK MOTOR
1) LOCK
2) UNLOCK
1.5 WS
1.5 BL/GR
X274
5126.0-00
B
1.5 BL/GR
X453 (PARTIAL)
X455
(PARTIAL)
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F7
5A
X10015
FUSE DETAILS
0670.3
.5 WS/GN
.5 WS/
SW
X256
.35 WS/BR/GE
.35
WS/
GR
6126.0-02
A
1.5 BL/GR
1.5 WS
X311
X315
M17
TRUNK LOCK
MOTOR
1) LOCK
2) UNLOCK
TWO-DOOR
FOUR-DOOR
1.5 WS
.5 GN/
WS/GE
X10226
K117
TRUNK LID RELAY
CONVERTIBLE
1.5 WS
.5 WS/GN/GE
X10226
.35 WS/
SW
.35 WS/
GN
.35 WS/
BL
.5 WS/GN/GE
X311
X10226
.5 WS/GN/GE
X13253
A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)
31

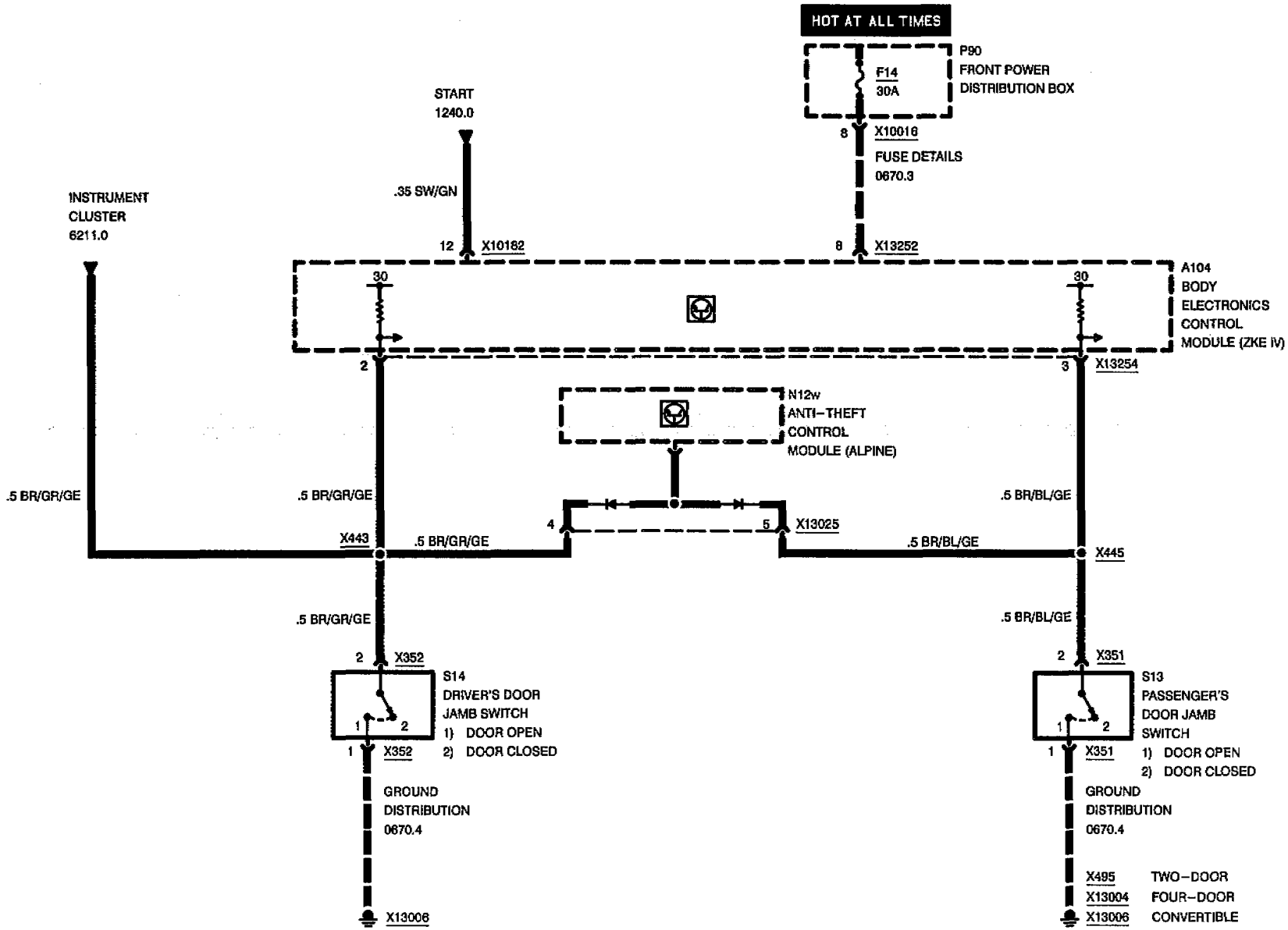
ZKE CENTRAL LOCKING (ZV)




HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F26
10A
F28
5A
FUSE DETAILS
0670.3
X10017
.5 GN/GR
X511
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L2
X511
.5 BR/SW
X191
.5 BR/SW
.5 BR/SW
ELECTRONIC
TRANSMISSION
CONTROL (EGS
A4S 310R)
2460.2
ELECTRONIC
TRANSMISSION
CONTROL (EGS
A5S 310Z)
2460.4
N4
ON-BOARD
COMPUTER
30
X1071
.5 SW/VI
.5 SW/GN
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
X209
2.5 SW/GE
X33
2.5 SW/GE
X1659
A836
ELECTRONIC
IMMOBILIZER
CONTROL
MODULE (EWS II)
X1659
.35 SW
X1047
.35 SW
X20
DATA LINK
0670.5
.5 SW
X8015
.5 SW
318i/s 60
LATE PRODUCTION
M3, 325i 47
328i 36
320i 18
318i/s 74
CDN
.35 GN
2.5 SW/GE
X20
.5 SW/VI
2.5 SW/GE
318i/s 10
LATE PRODUCTION
M3, 325i 66
328i 18
320i 15
318i/s 81
CDN
X6000
TD
A6000
ENGINE CONTROL
MODULE (DME)
1) DRIVE-AWAY
PROTECTION
GROUND
DISTRIBUTION
0670.4
X173
START
1240.0

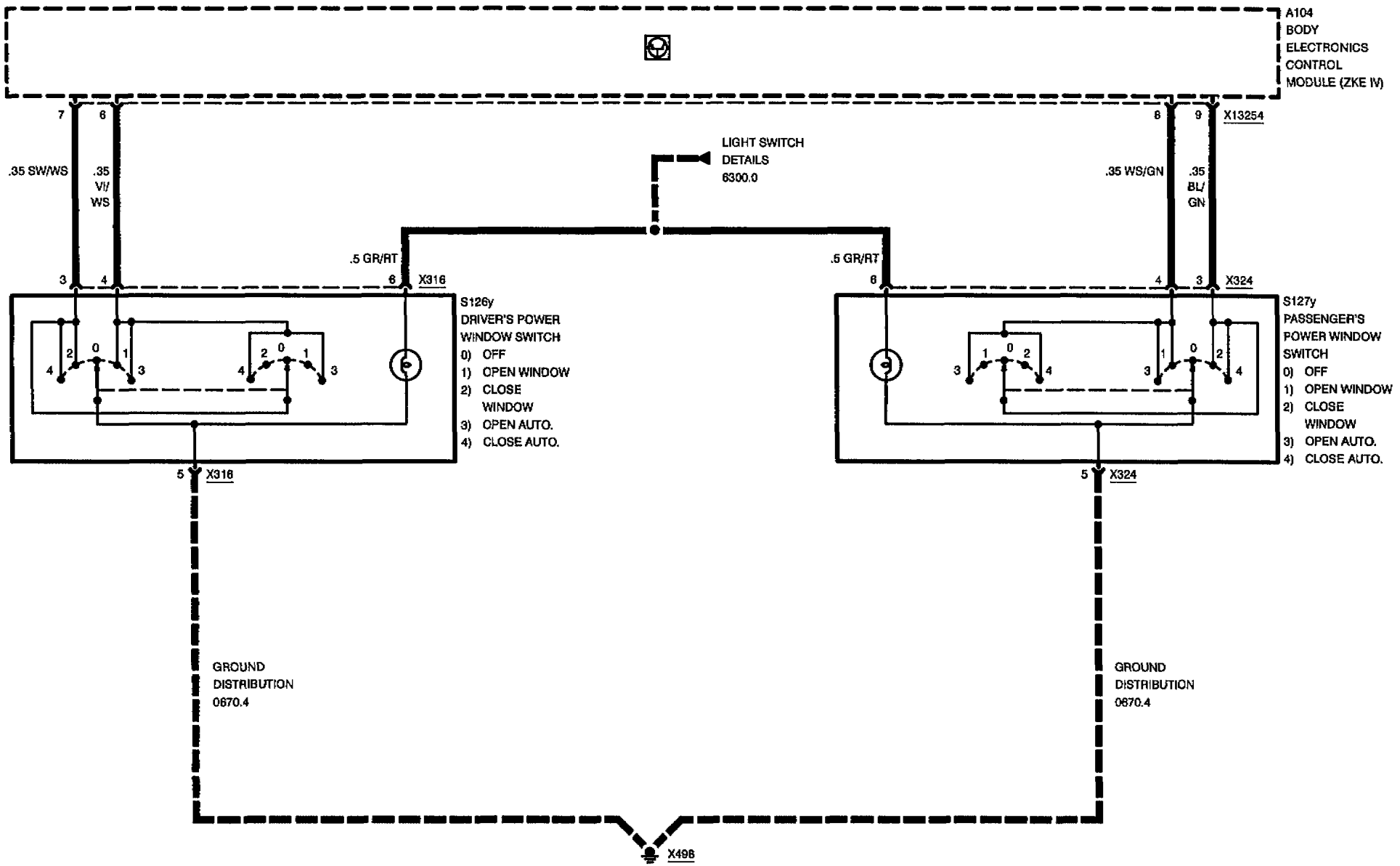
POWER WINDOWS (FH)

INPUT DETAILS



POWER WINDOWS (FH)

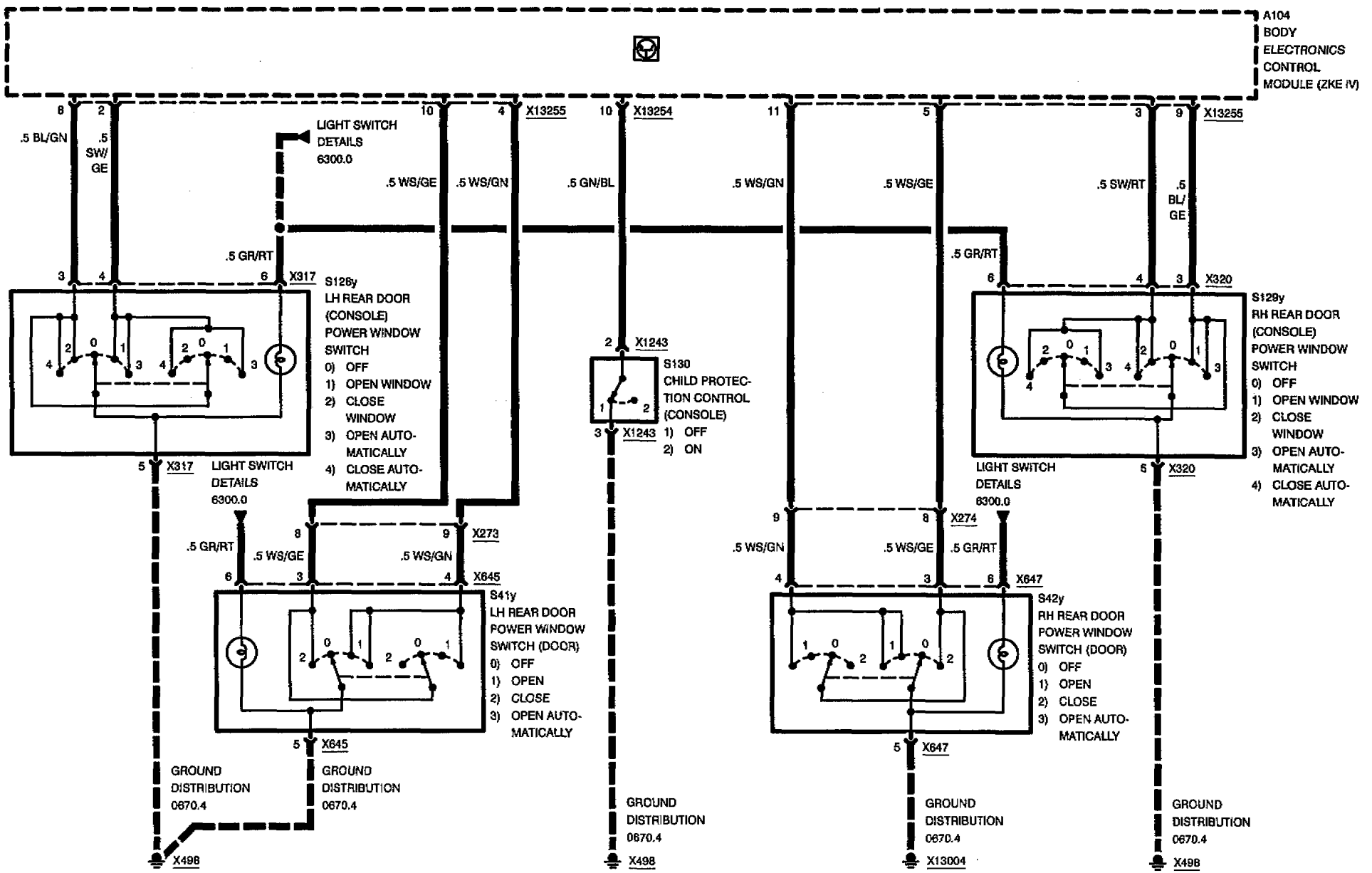
INPUT DETAILS



POWER WINDOWS (FH)

INPUT DETAILS

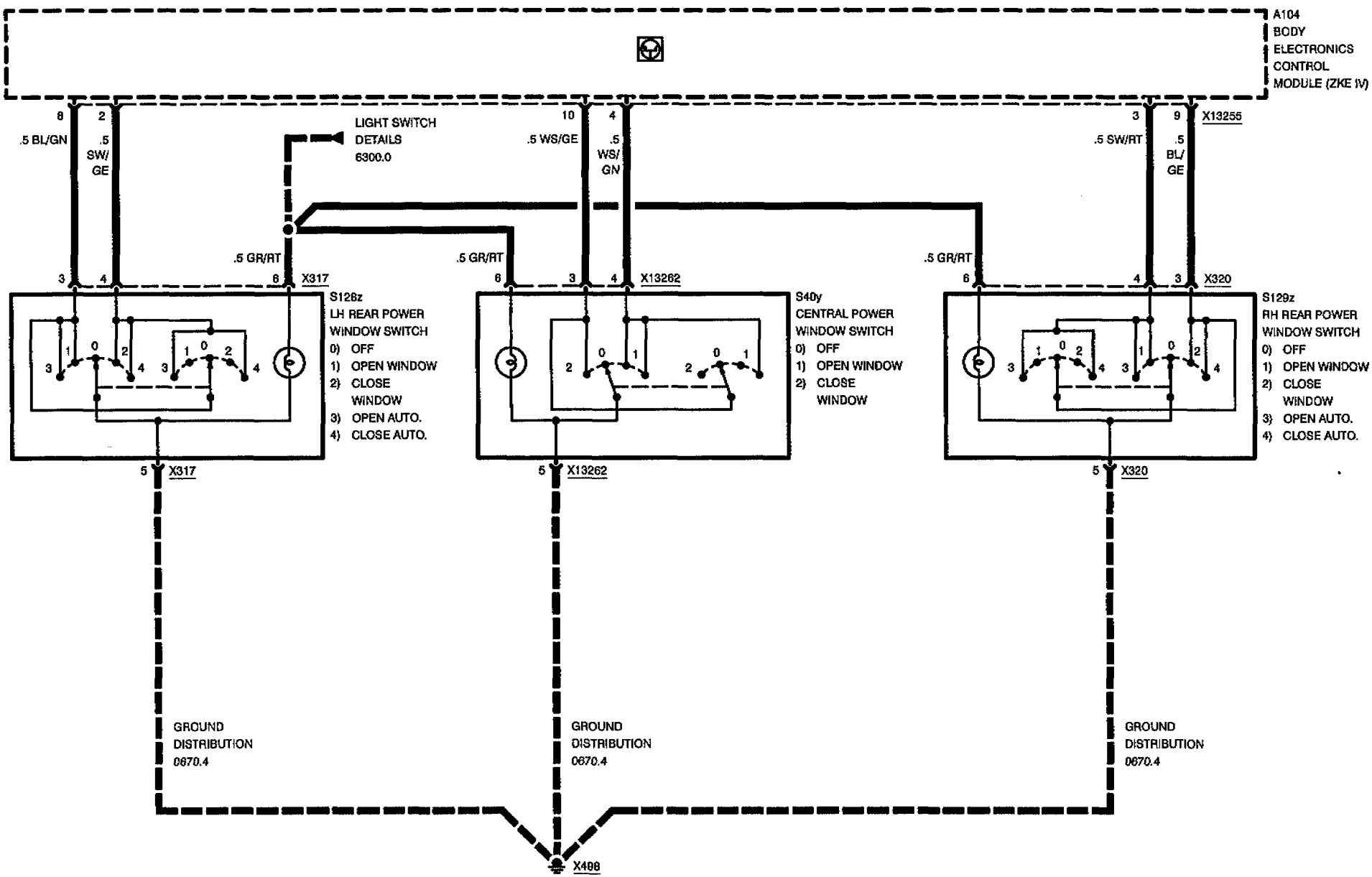
FOUR-DOOR



POWER WINDOWS (FH)

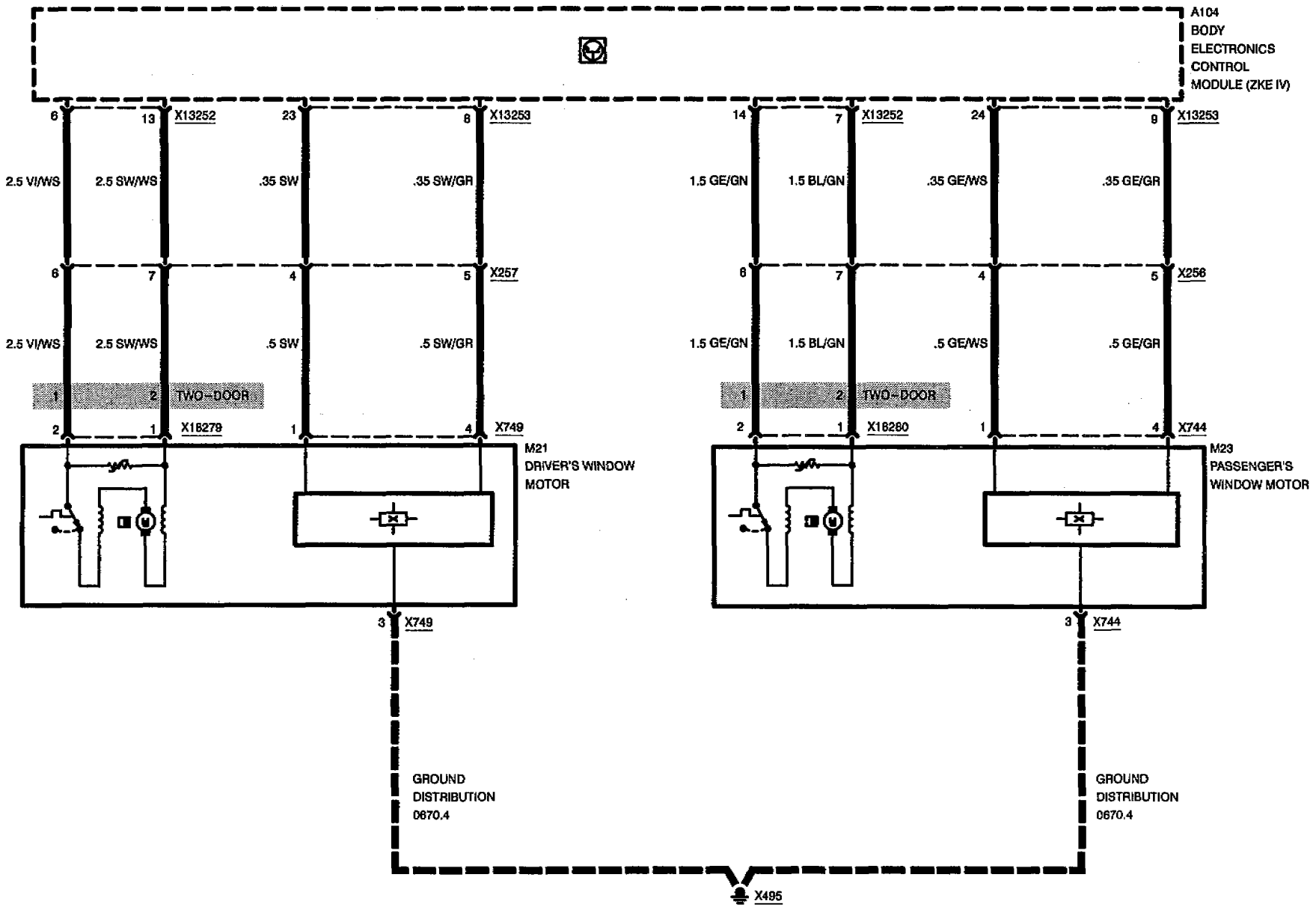
CONVERTIBLE

INPUT DETAILS



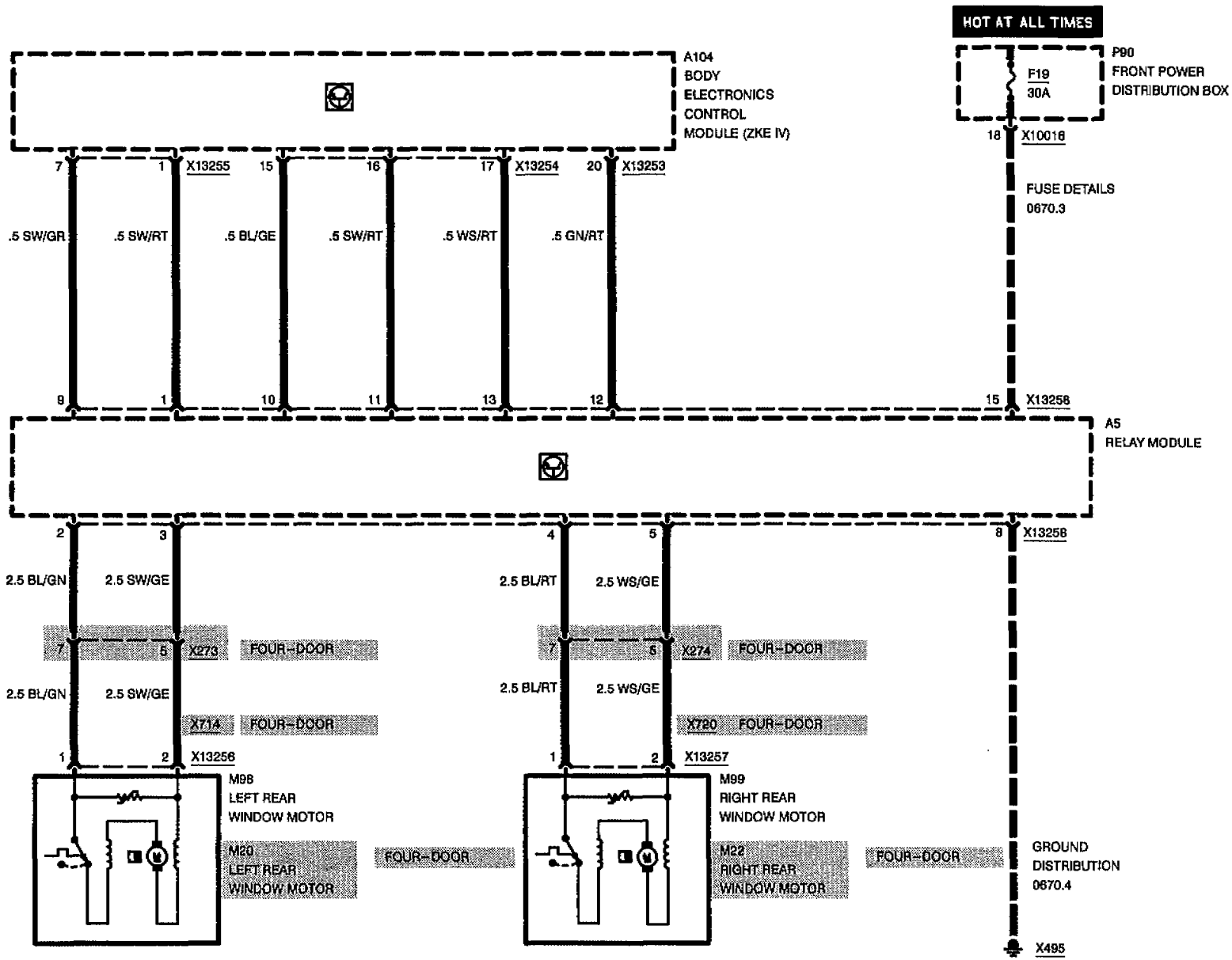
POWER WINDOWS (FH)

OUTPUT DETAILS

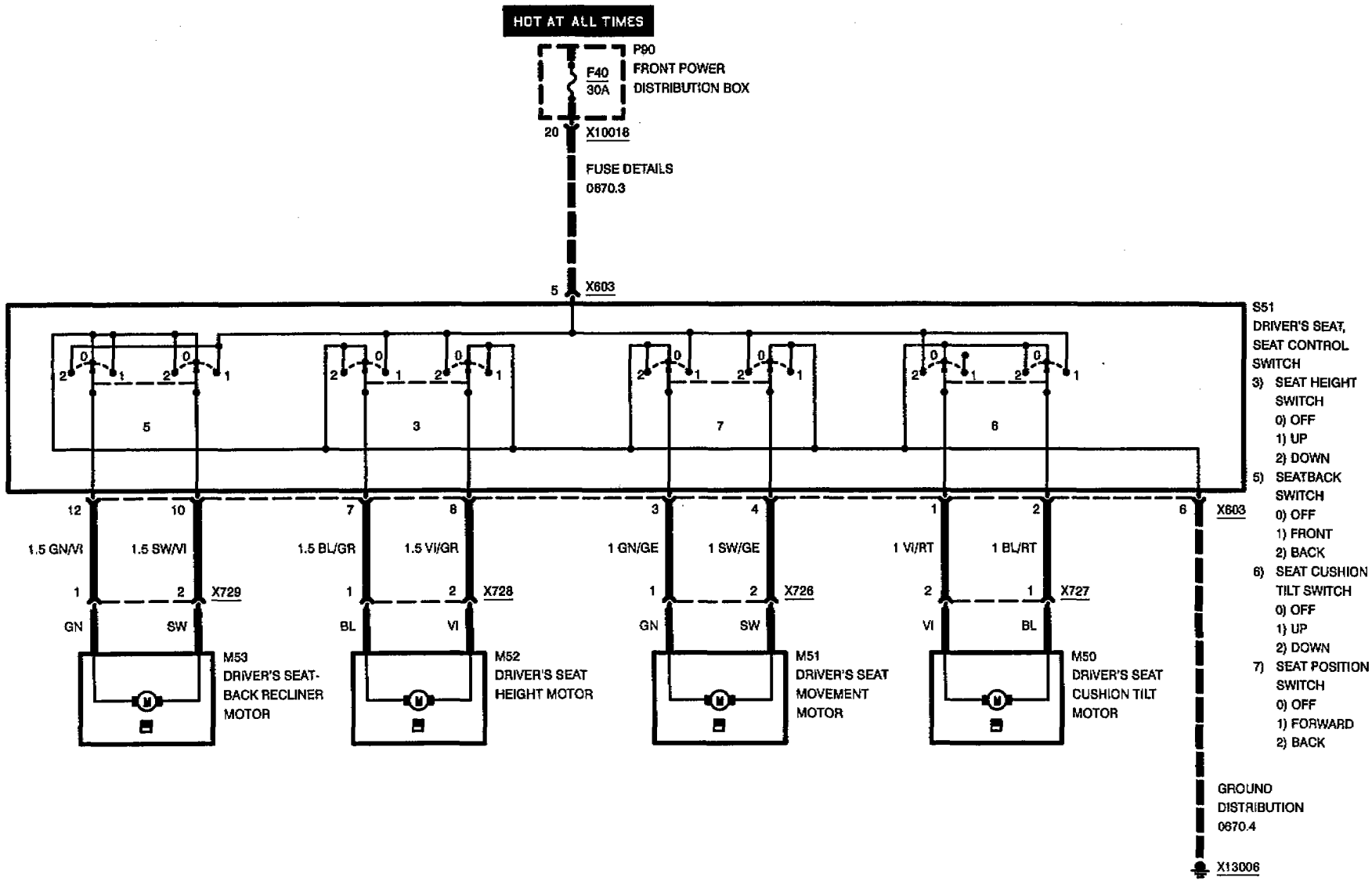


POWER WINDOWS (FH)

OUTPUT DETAILS

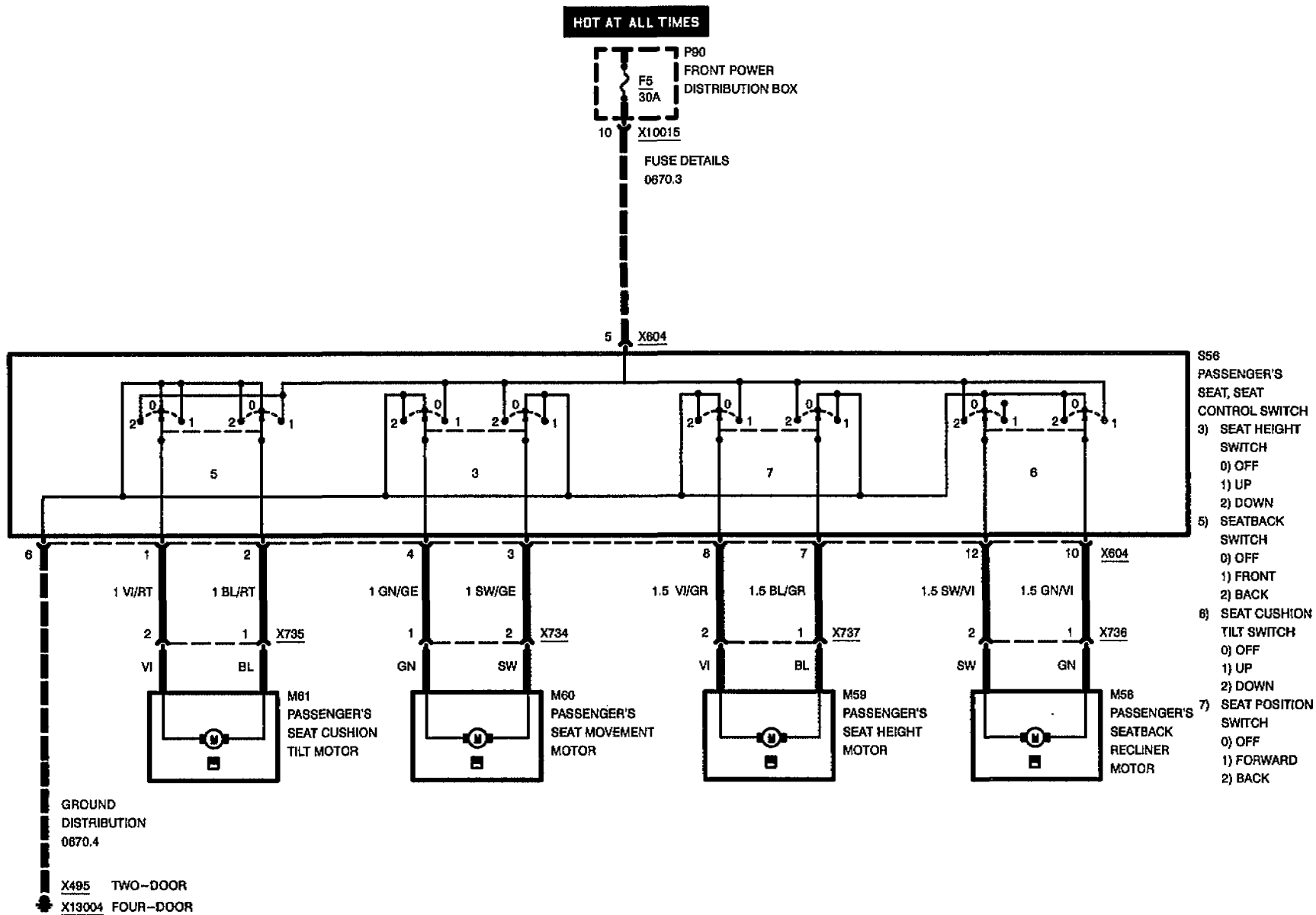


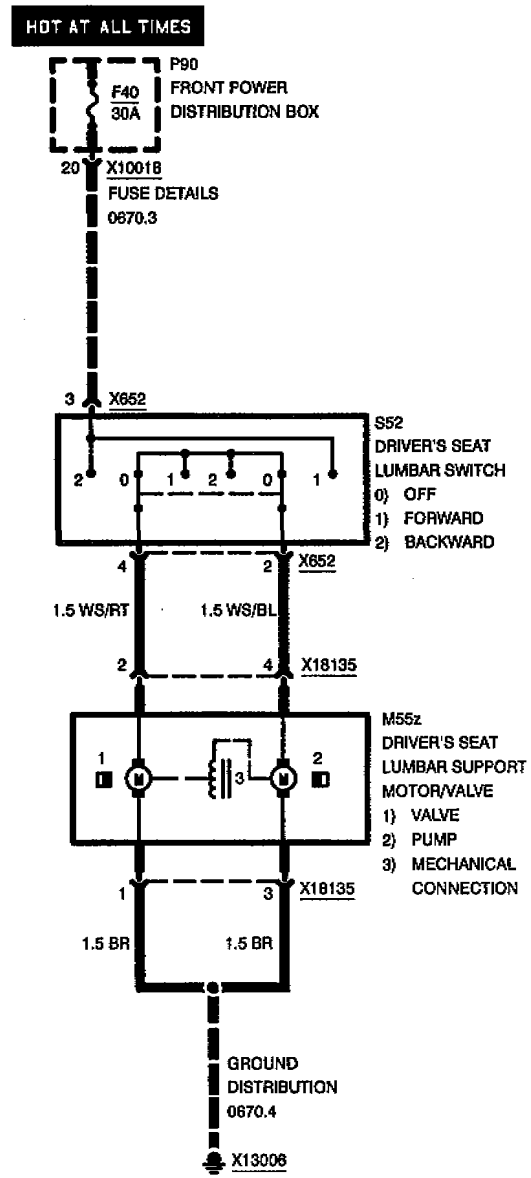
POWER SEATS
DRIVER'S SEAT



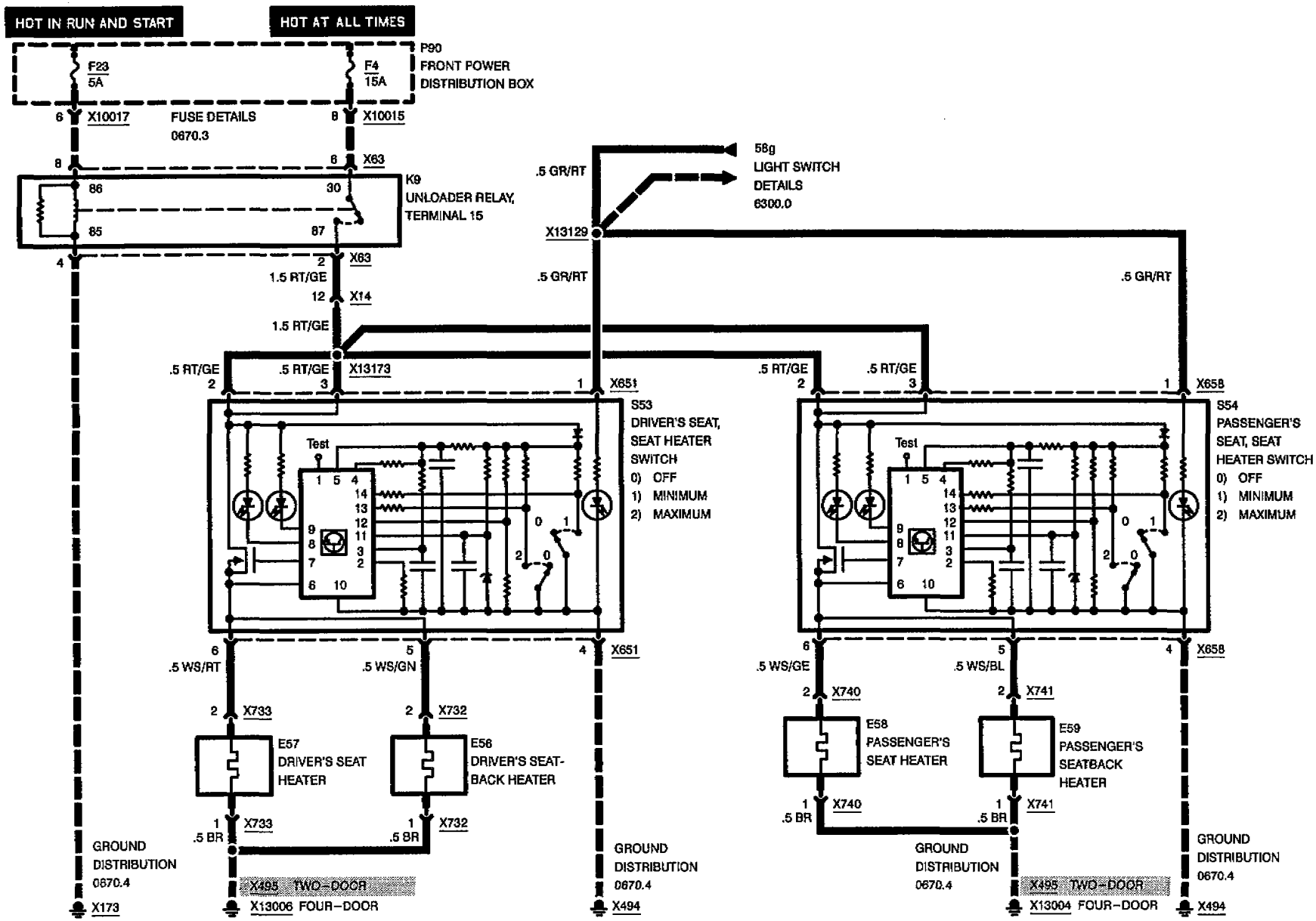
POWER SEATS

PASSENGER'S SEAT

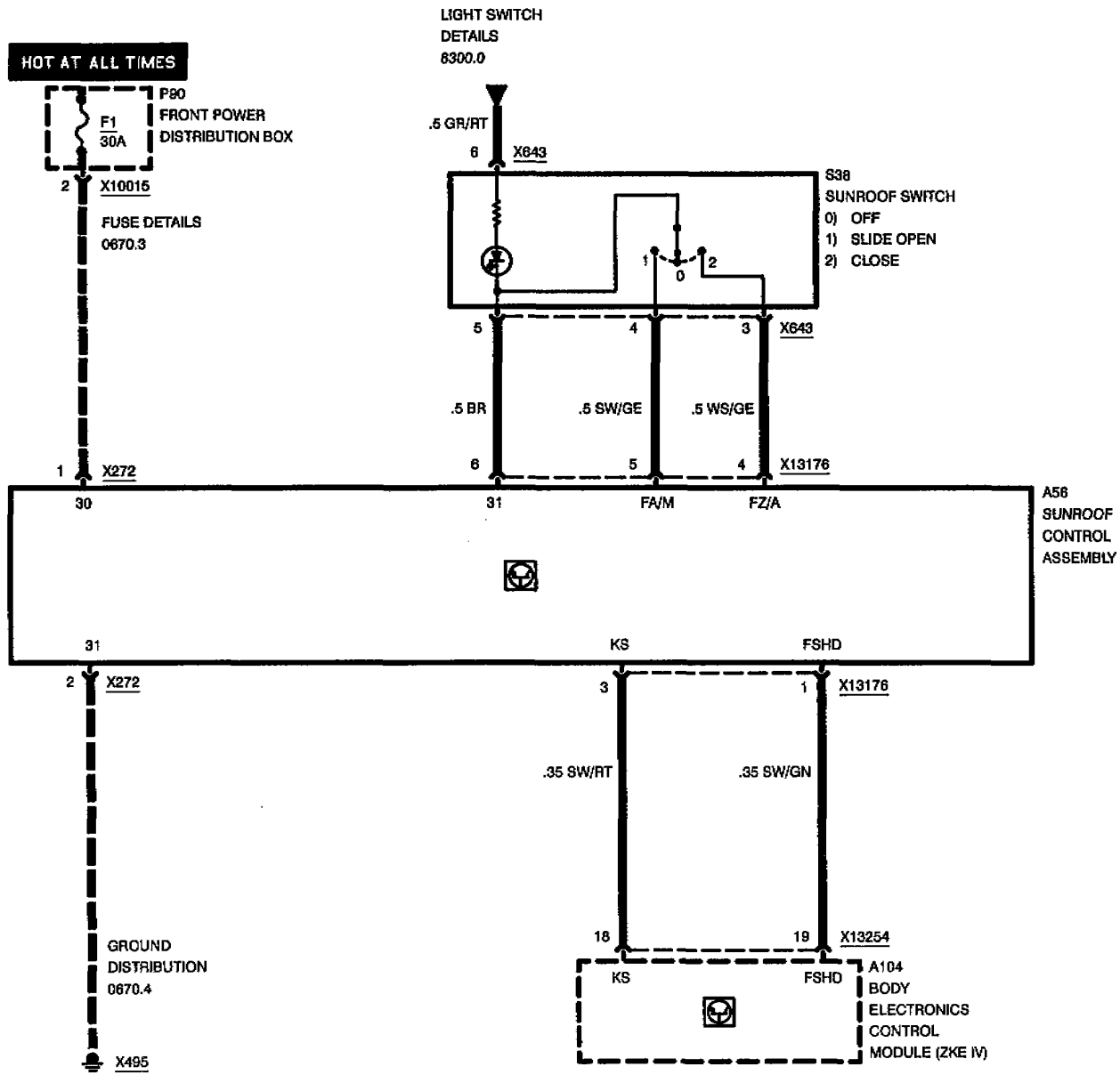



HOT AT ALL TIMES
P90
F40
30A
FRONT POWER
DISTRIBUTION BOX
20
X10018
FUSE DETAILS
0670.3
3
X652
S52
DRIVER'S SEAT
LUMBAR SWITCH
0) OFF
1) FORWARD
2) BACKWARD
2
0
1
2
0
1
4
2
X652
1.5 WS/RT
1.5 WS/BL
2
4
X18135
M55z
DRIVER'S SEAT
LUMBAR SUPPORT
MOTOR/VALVE
1) VALVE
2) PUMP
3) MECHANICAL
CONNECTION
1
2
3
1
3
X18135
1.5 BR
1.5 BR
GROUND
DISTRIBUTION
0670.4
X13006

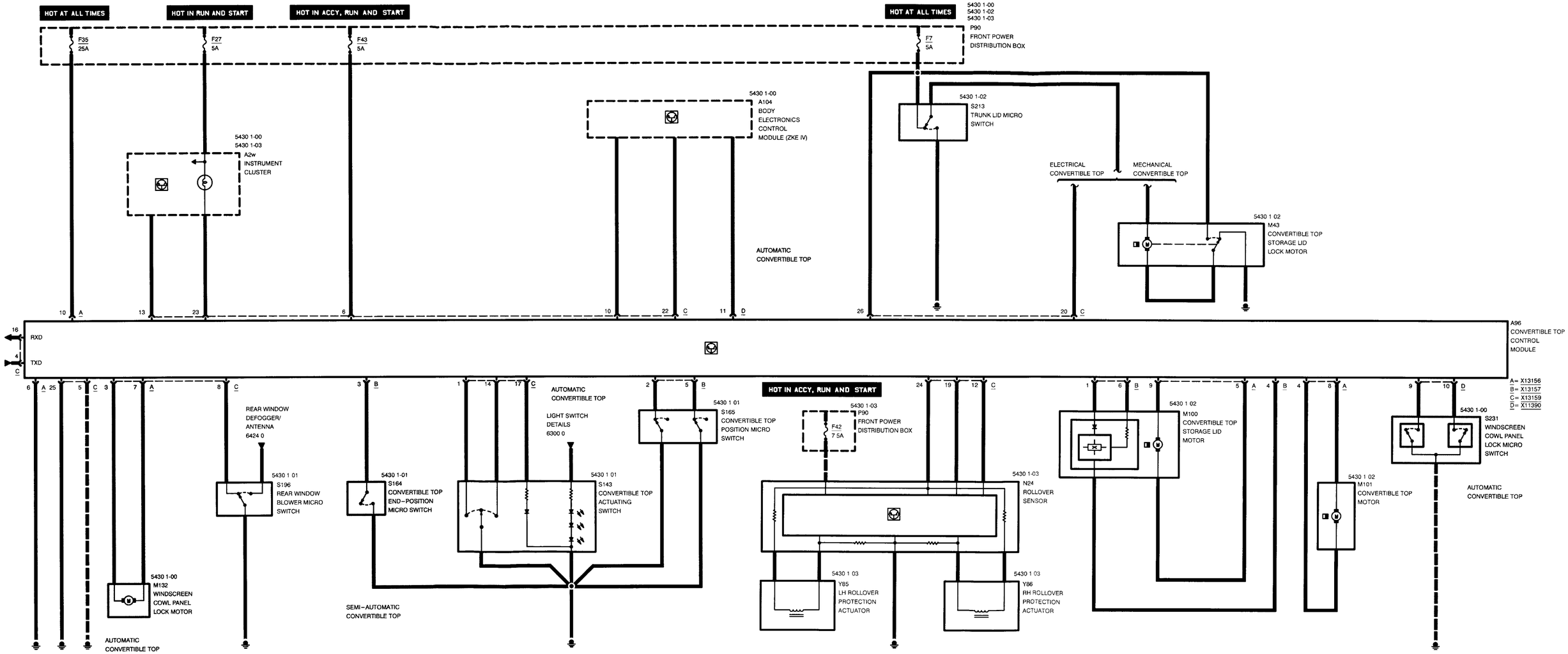
HEATED SEATS



POWER SUN ROOF (SHD)



04/97 — 5430 1 — 1996
04/97 — 5430 1 — 1996



Pin Assignments

A = X13156	10 Pins, black
B = X13157	6 Pins, black
C = X13159	26 Pins, black
D = X11390	12 Pins, black

X13156

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3	E/A	Activate engine (MVER R2)	Windscreen cowl panel locking (automatic convertible top)
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground
7	E/A	Activate engine (MVER R2)	Windscreen cowl panel locking (automatic convertible top)
8	E/A	Control signal	Convertible top motor
9	E/A	Control signal	Convertible top storage lid motor
10	E	Plus supply 12V	Front power distribution box

X13157

Pin	Type	Description/Function	Connection
1	A	Plus supply	Position sensor (convertible top storage lid motor)
2	E	Position signal	Convertible top position micro switch
3	E	Position signal	Convertible top end position micro switch (semi-automatic convertible top)
4	E	Component ground	Position sensor (convertible top storage lid motor)
5	E	Position signal	Convertible top position micro switch
6	E	Control signal	Position sensor (convertible top storage lid motor)

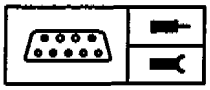
E = Input, A = Output, M = Ground

Pin Assignments

X13159

Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box
7		Not used	
8	E	Rear window blower signal	Rear window blower micro switch
9		Not used	
10	A	Data signal	Body electronics control module
11		Not used	
12	A	Data signal	Roll over sensor
13	A	Speed signal	Instrument cluster
14	E	Top closed signal	Convertible top actuating switch
15		Not used	
16	A	RxD data signal	Data link connector
17	A	LED	Convertible top actuating switch
18		Not used	
19	A	Data signal	Roll over sensor
20	E	Trunk lid signal	Trunk lid micro switch
21		Not used	
22	A	Data signal	Body electronics control module
23	A	Roll over signal	Instrument cluster
24	A	Data signal	Roll over sensor
25	M	Ground	Ground
26	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



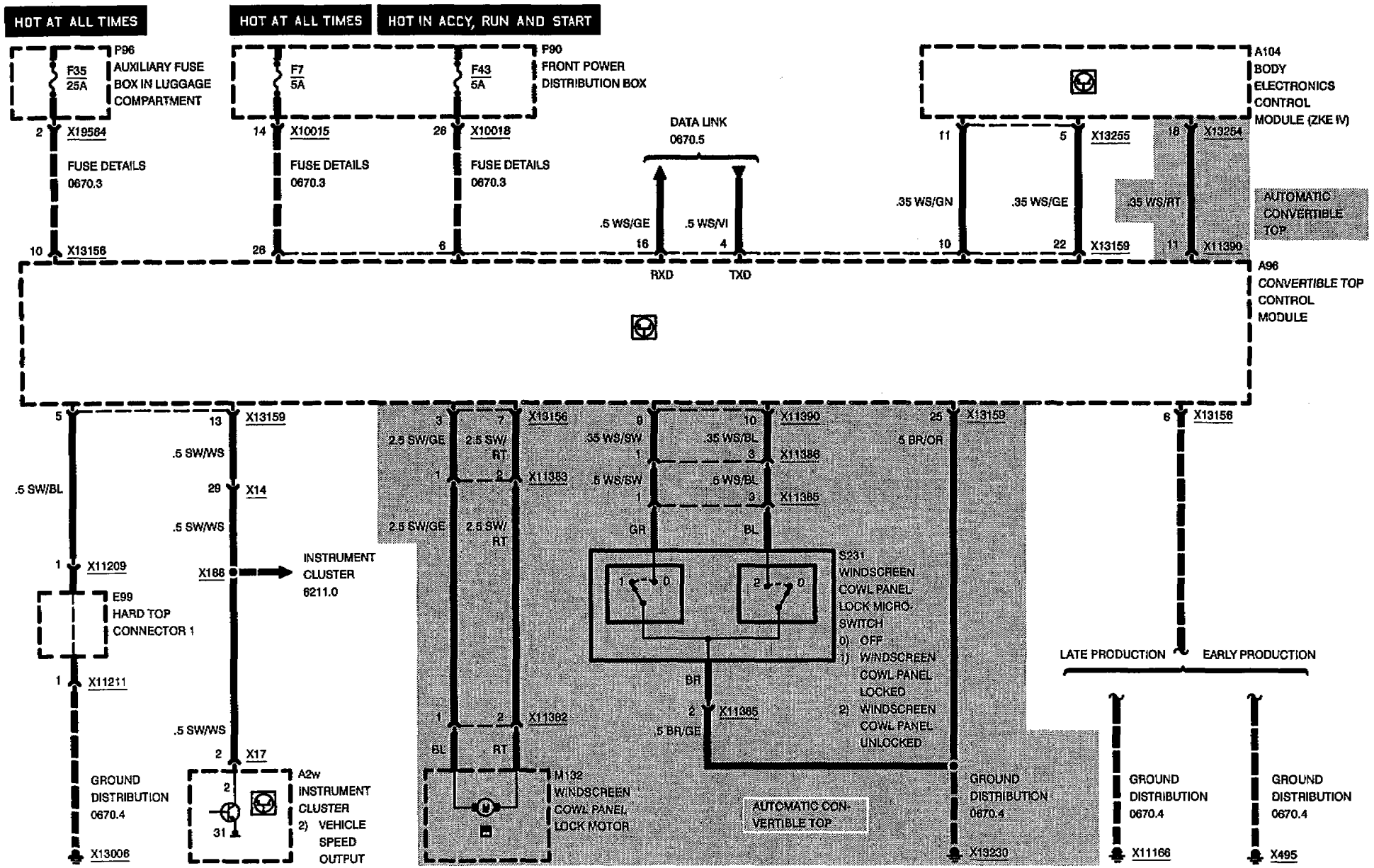
Pin Assignments

X11390

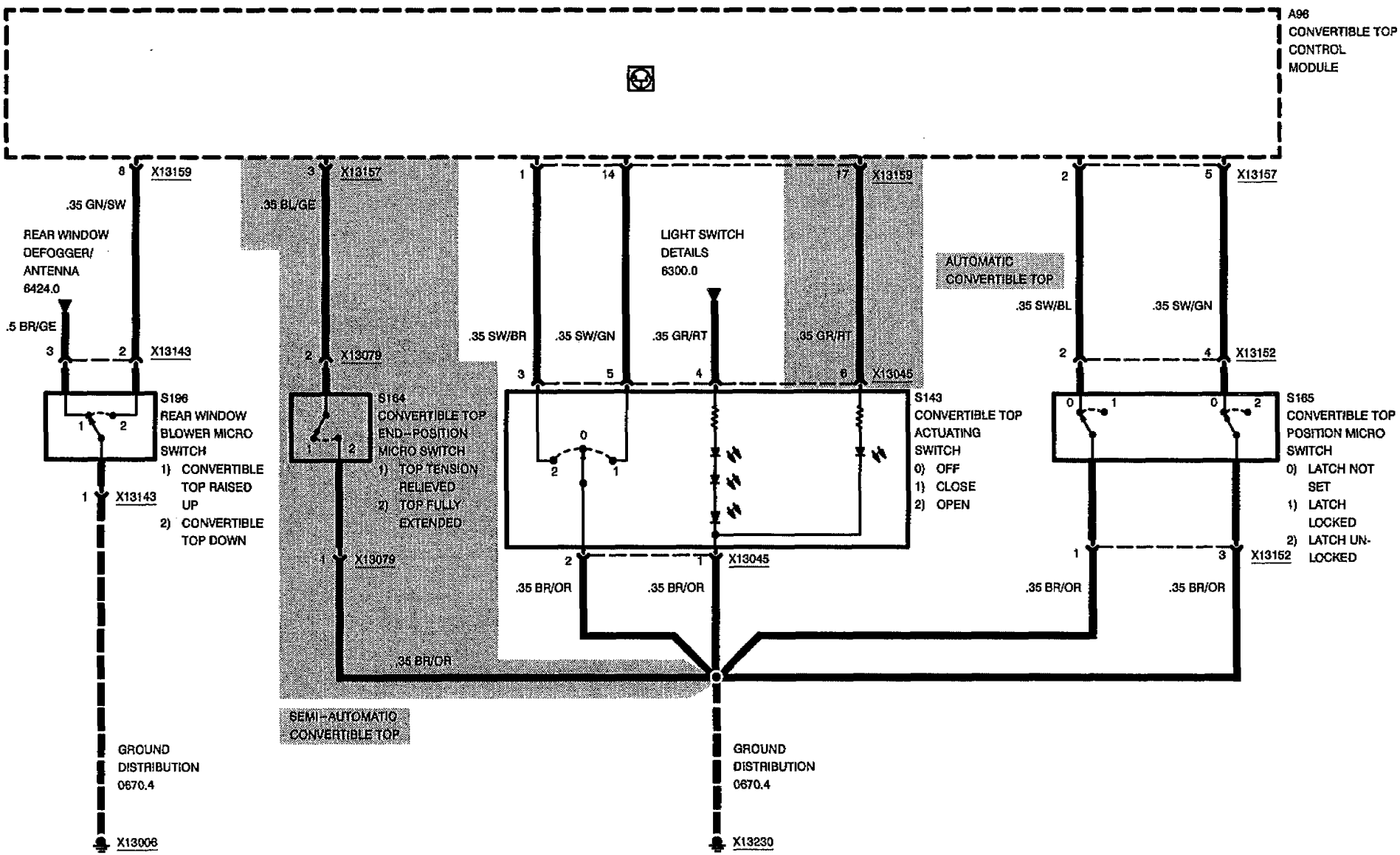
Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9	E/A	ML VER	Windscreen cowl panel lock microswitch (automatic convertible top)
10	E/A	ML UNLOCKED	Windscreen cowl panel UNLOCKED (automatic convertible top)
11	E/A	ML KOSCHL	Body electronics control module (ZKE IV) (automatic convertible top)
12		Not used	

E = Input, A = Output, M = Ground

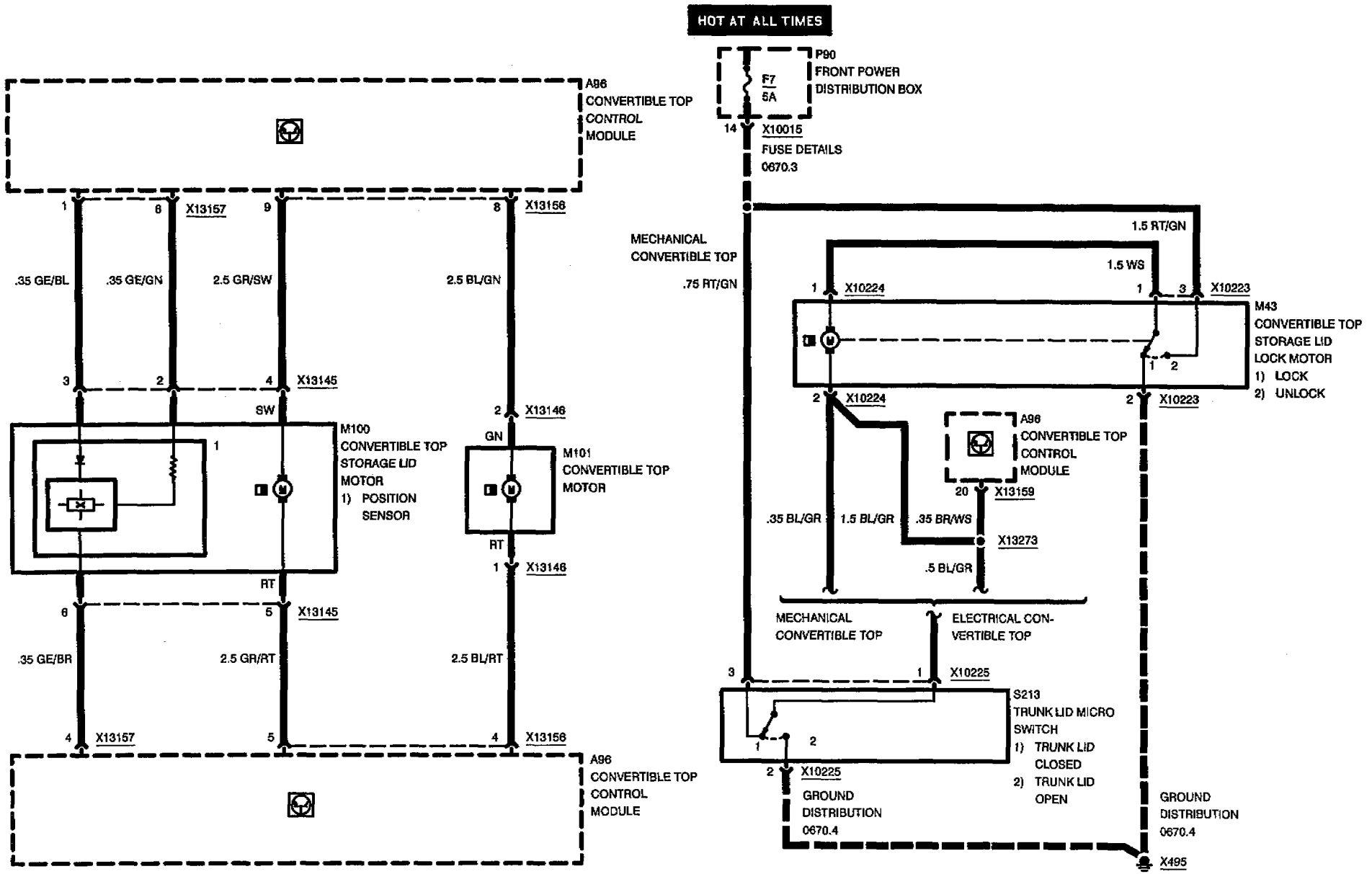
ELECTRICAL CONVERTIBLE TOP



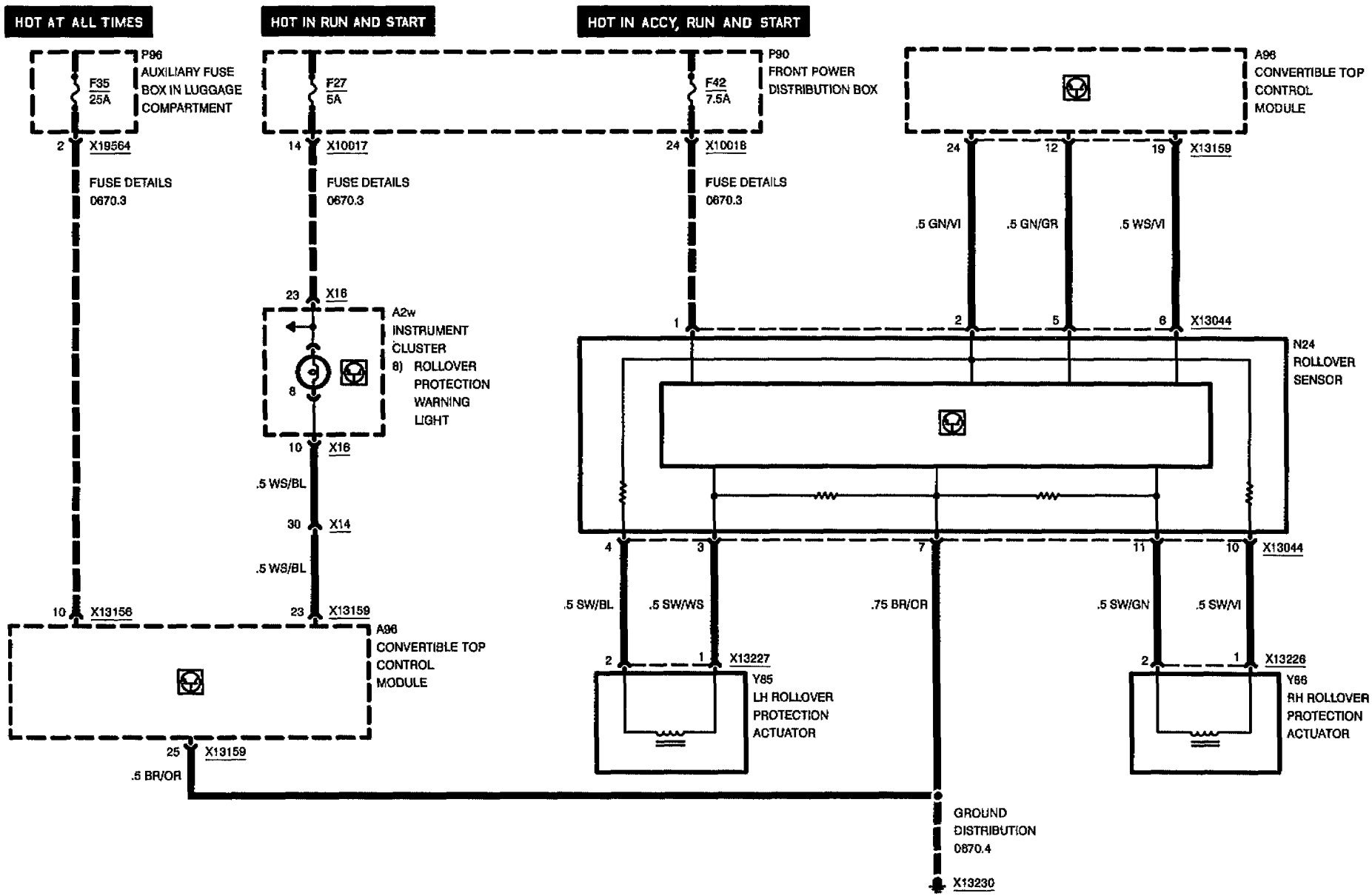
ELECTRICAL CONVERTIBLE TOP



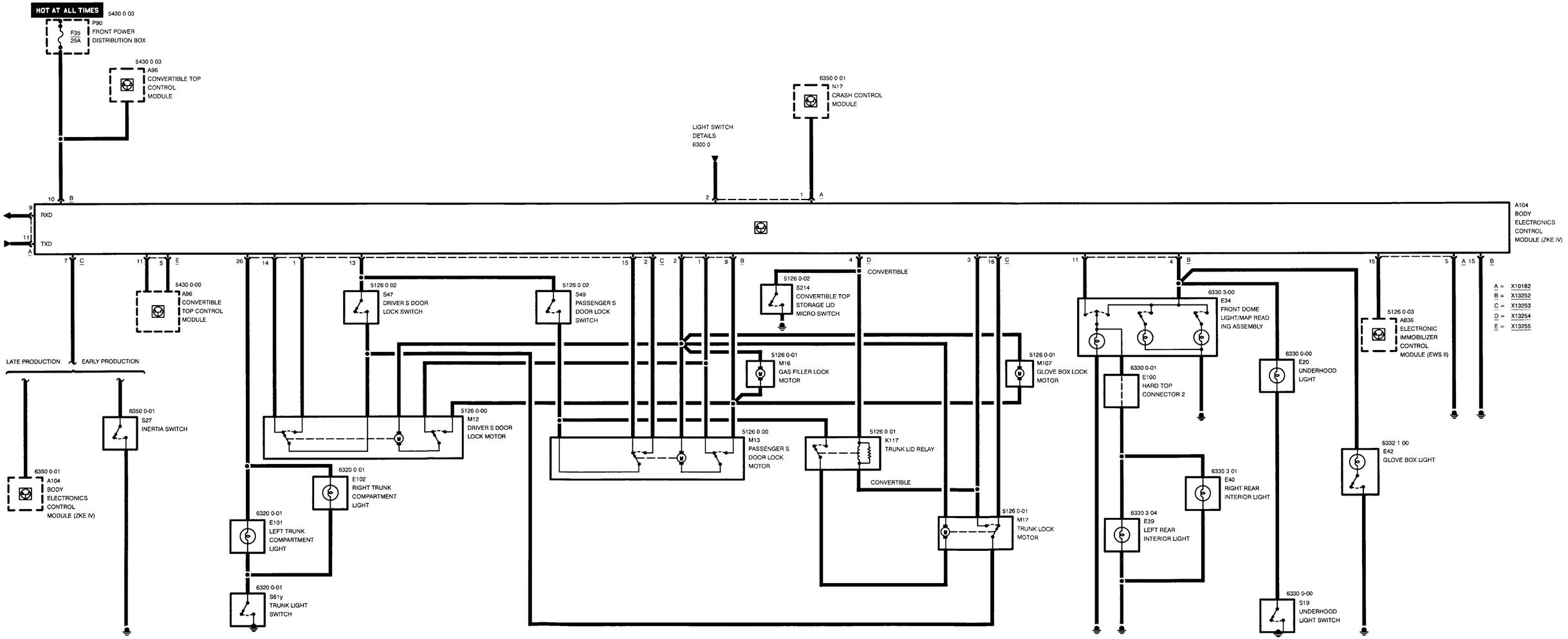
ELECTRICAL CONVERTIBLE TOP



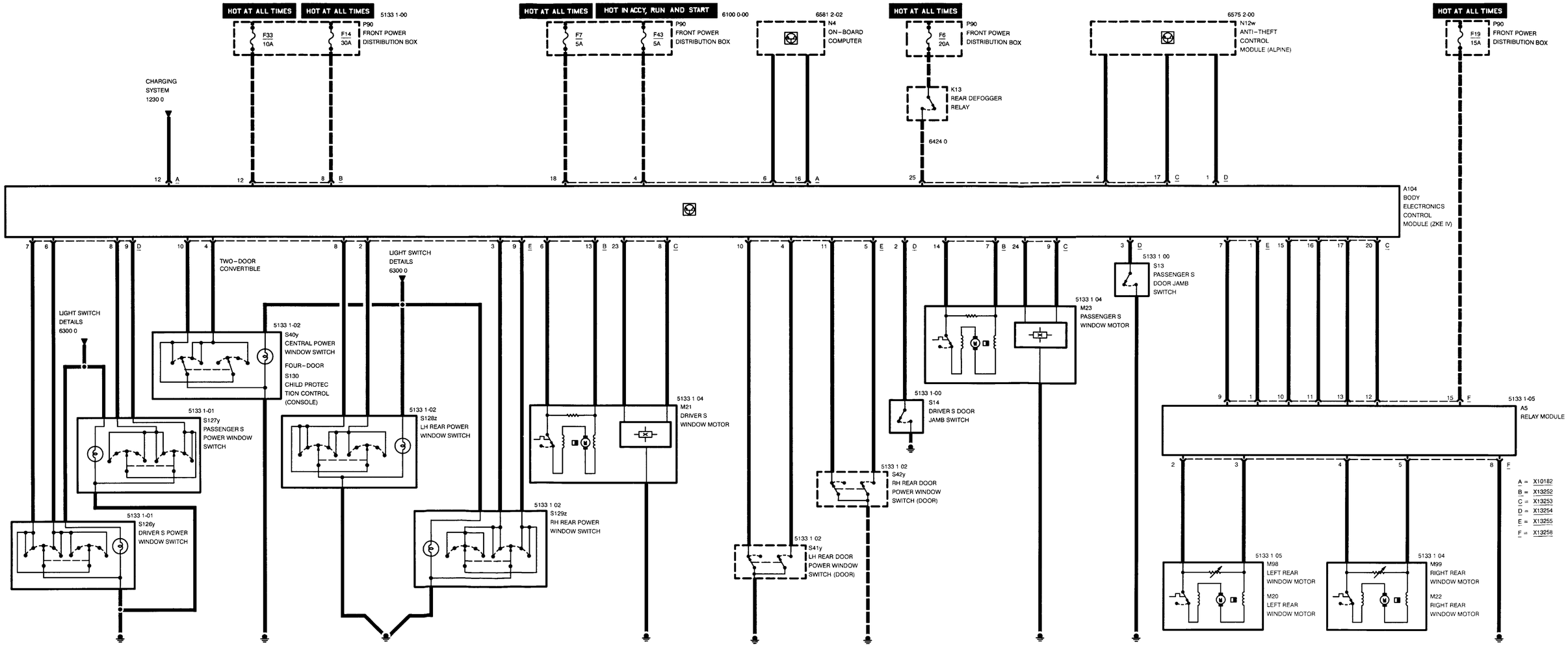
ELECTRICAL CONVERTIBLE TOP

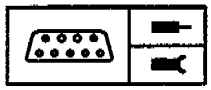


04/97 6100 0a 1996
04/97 6100 0a 1996



04/97 6100 0b 1996





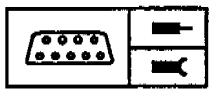
Pin Assignments

A = X10182	18 Pins, black
B = X13252	15 Pins, black
C = X13253	26 Pins, yellow
D = X13254	26 Pins, green
E = X13255	26 Pins, nature
F = X13258	15 Pins, white

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3		Not used	
4	E	Power supply	Front power distribution box
5	M	Ground	Ground
6		Not used	
7	A	Activate relay	Horn relay (Alpine)
8		Not used	
9	A	Diagnosis RxD signal	Data Link connector
10		Not used	
11	E/A	Diagnosis TxD signal	Data link connector
12	E	Terminal 50	Starter
13		Not used	
14		Not used	
15	A	Drive away protection	Electronic immobilizer control module (EWS II)
16	A	Data signal	On Board computer
17	E	Hood/radio signal	Hood/radio micro switches
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



Pin Assignments

X13252

Pin	Type	Description/Function	Connection
1	E	Power lock signal	Door lock motors
2	A	Voltage supply	All lock motors
3		Not used	
4	E	Automatic interior light signal	Interior light
5		Not used	
6	A	Voltage supply	Power window motor driver's door
7	A	Voltage supply	Power window motor passenger's door
8	E	Power supply	Front power distribution box
9	E	Lock signal	Lock motor & trunk lid relay
10	E	Power supply	Front power distribution box
11	A	Voltage supply	Interior lights, engine compartment light, glove box light
12	E	Power supply	Front power distribution box
13	E	Motor signal	Power window motor driver's door
14	E	Motor signal	Power window motor passenger's door
15	M	Ground	Ground

X13253

Pin	Type	Description/Function	Connection
1	E	Position signal	Door lock motor driver's door
2	E	Position signal	Door lock motor passenger's door
3	E	Lock signal trunk lid	Trunk lid lock motor, trunk lid relay
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Inertia switch
8	E	Revolution signal	Power window motor driver's door
9	E	Revolution signal	Power window motor passenger's door
10		Not used	

E = Input, A = Output, M = Ground

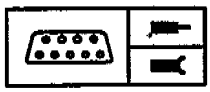
Pin Assignments

Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal driver's door	Door lock motor driver's door
15	E	Lock signal passenger's door	Door lock motor passenger's door
16	E	Lock signal trunk lid	Trunk lid lock motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19	E	Central locking signal	Central locking switch
20	E/A	Data signal	Relay module
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window's motor driver's side
24	A	Voltage supply (revolution)	Power window's motor passenger's side
25		Rear defogger signal	Rear defogger relay
26	A	Voltage supply	Luggage compartment lights

X13254

Pin	Type	Description/Function	Connection
1	E	Door signal	Driver's door handle switch
2	E	Door signal	Door jamb switch driver's door
3	E	Door signal	Door jamb switch passenger's door
4	E	Convertible trunk lid signal Four-door door-signal	Trunk lid switch/trunk lid relay Door jump switch left rear
5	E	Door signal	Door jump switch right rear
6	E	OPEN signal	Power window switch driver's door
7	E	CLOSE signal	Power window switch driver's door
8	E	OPEN signal	Power window switch passenger's door
9	E	CLOSE signal	Power window switch passenger's door
10	E	Four-door child protection signal	Child protection switch
11		Not used	

E = Input, A = Output, M = Ground



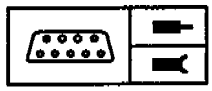
Pin Assignments

Pin	Type	Description/Function	Connection
12		Not used	
13		Not used	
14	E	Trunk lid signal	Trunk lid switch
15	A	DATA signal	Relay module
16	A	DATA signal	Relay module
17	A	DATA signal	Relay module
18	A	Convertible DATA signal	Convertible top control module
19	A	Four-door CORRECT signal	Comfort relay
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13255

Pin	Type	Description/Function	Connection
1	A	DATA signal	Relay module
2	E	OPEN signal	Power window switch left rear
3	E	OPEN signal	Power window switch right rear
4	E	Convertible OPEN signal Four-door OPEN signal	Main power window switch Driver's rear window switch
5	E	Convertible DATA signal Four-door CLOSE signal	Convertible top control module Passenger's rear window switch
6		Not used	
7	A	DATA signal	Relay module
8	E	CLOSE signal	Power window switch left rear
9	E	CLOSE signal	Power window switch right rear
10	E	Convertible CLOSE signal Four-door CLOSE signal	Main power window switch Driver's window switch

E = Input, A = Output, M = Ground



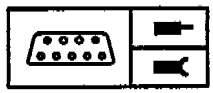
Pin Assignments

Pin	Type	Description/Function	Connection
11	E	Convertible DATA signal Four-door OPEN signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13258

Pin	Type	Description/Function	Connection
1	E	DATA signal	Central body electronic module
2	A	Voltage supply (motor)	Power window motor right rear
3	E	Signal	Power window motor right rear
4	E	Signal	Power window motor left rear
5	A	Voltage supply (motor)	Power window motor left rear
6		Not used	
7		Not used	
8	M	Ground	Ground
9	E	DATA signal	Central body electronic module
10	E/A	DATA signal	Central body electronic module
11	E/A	DATA signal	Central body electronic module

E = Input, A = Output, M = Ground

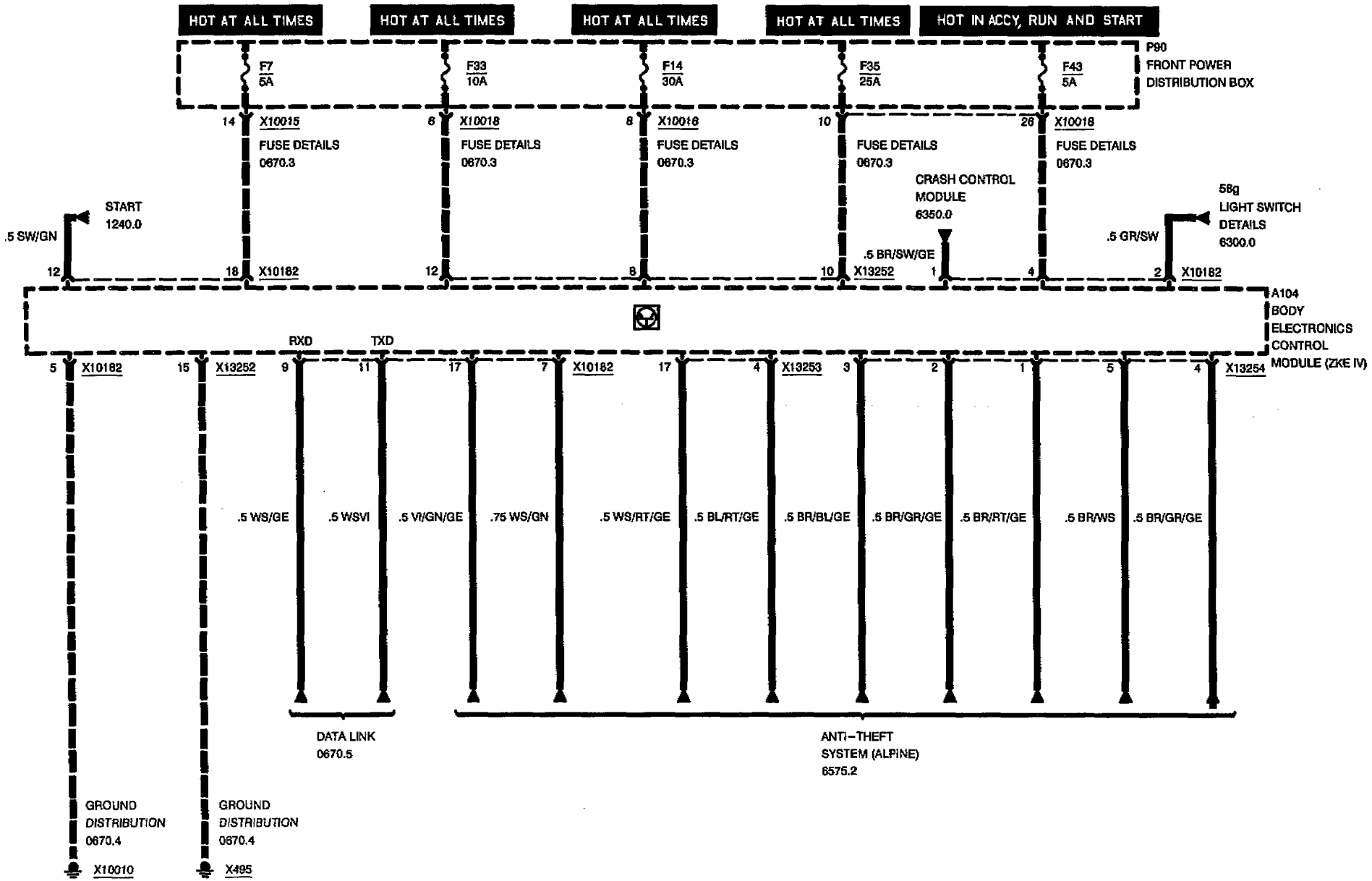


Pin Assignments

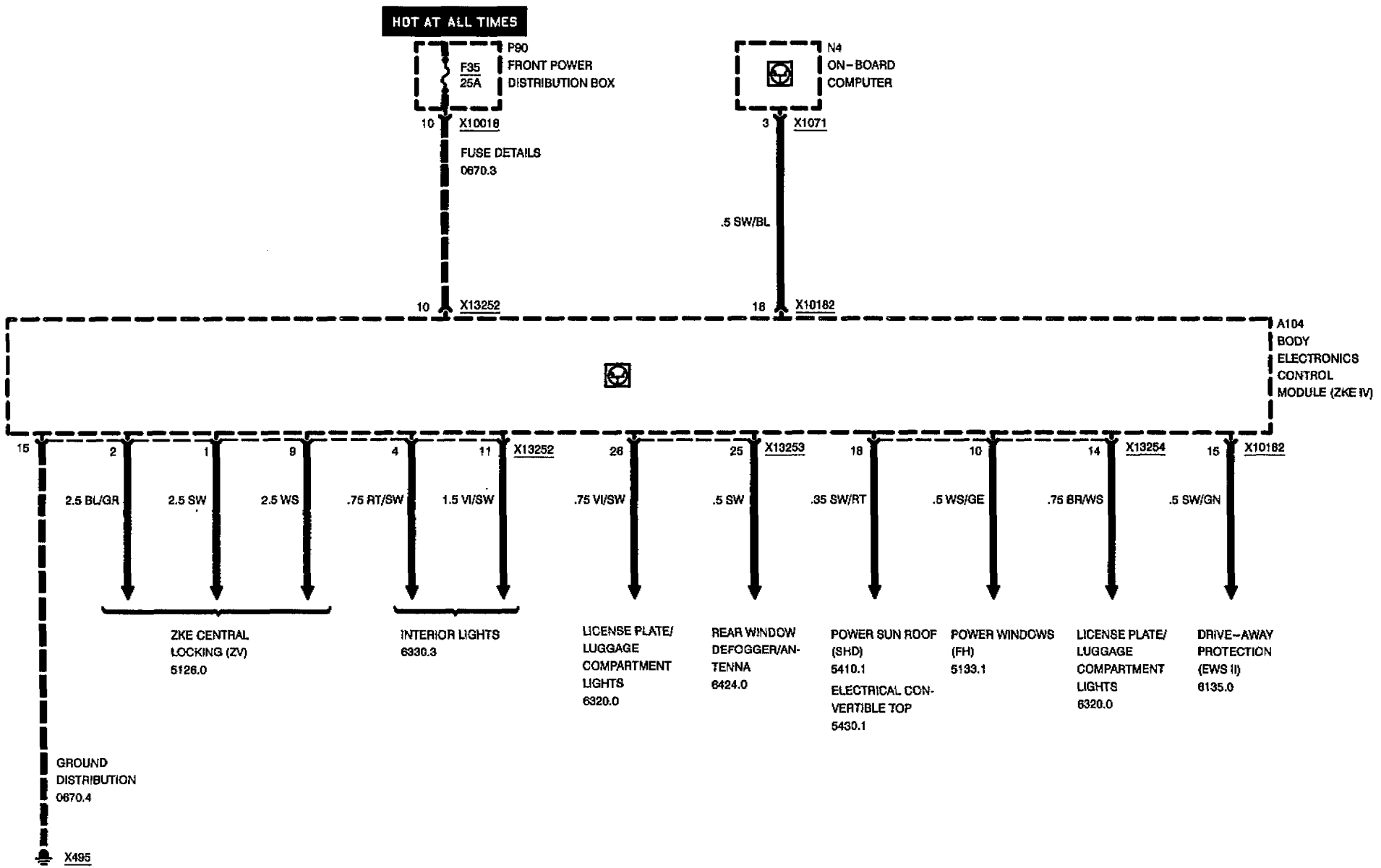
Pin	Type	Description/Function	Connection
12	E	DATA signal	Central body electronic module
13	E/A	DATA signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

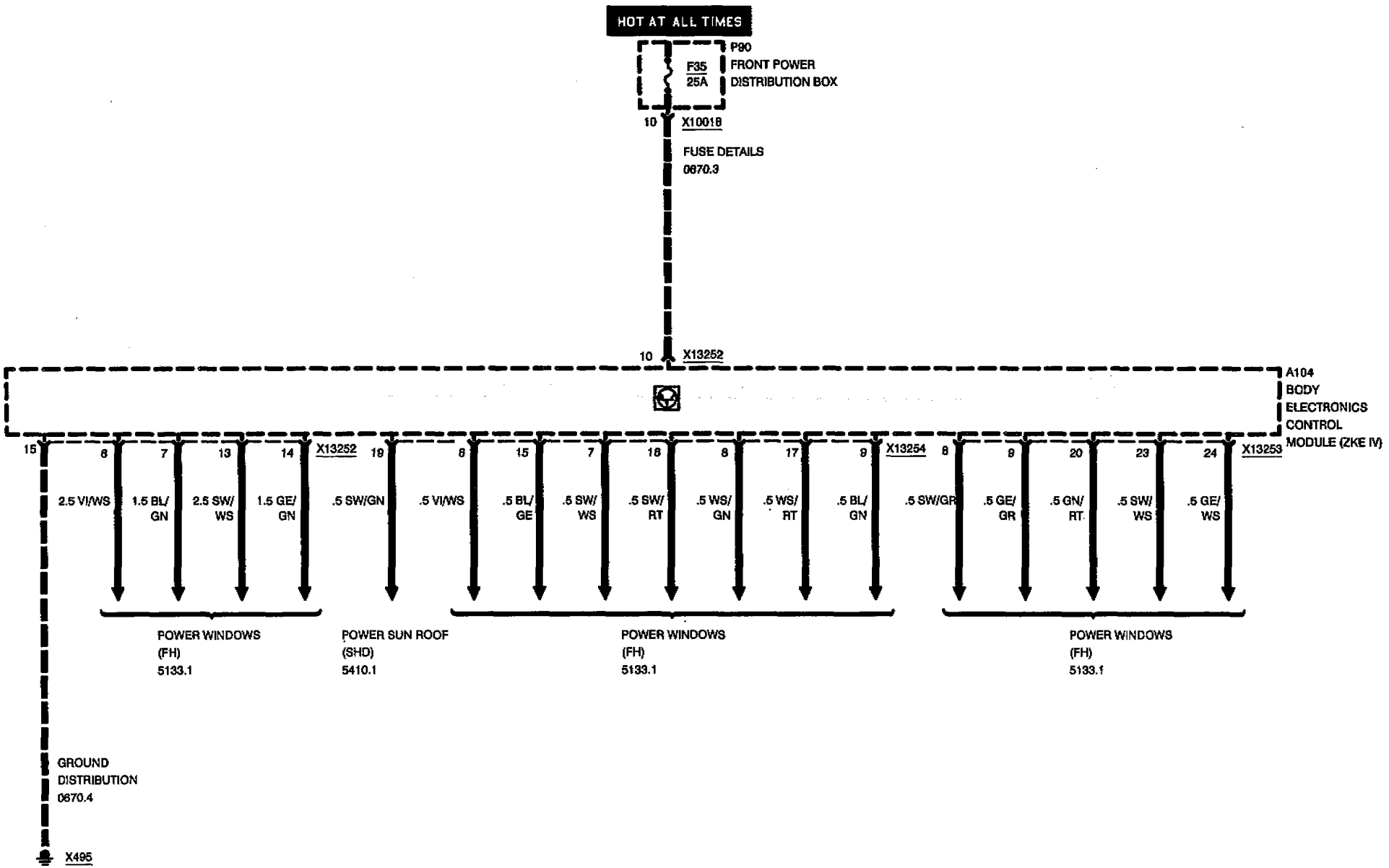
CENTRAL BODY ELECTRONICS (ZKE IV)



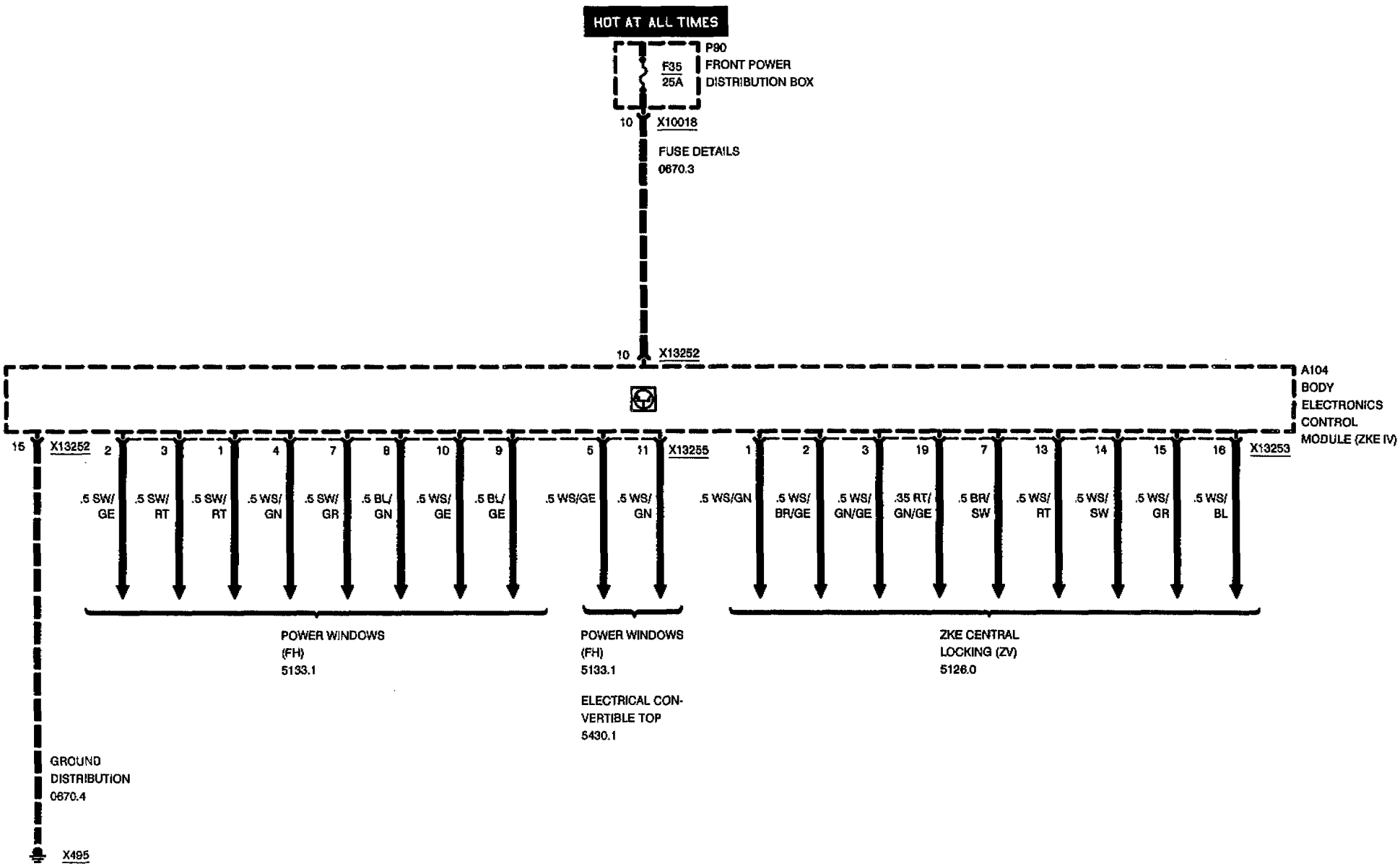
CENTRAL BODY ELECTRONICS (ZKE IV)

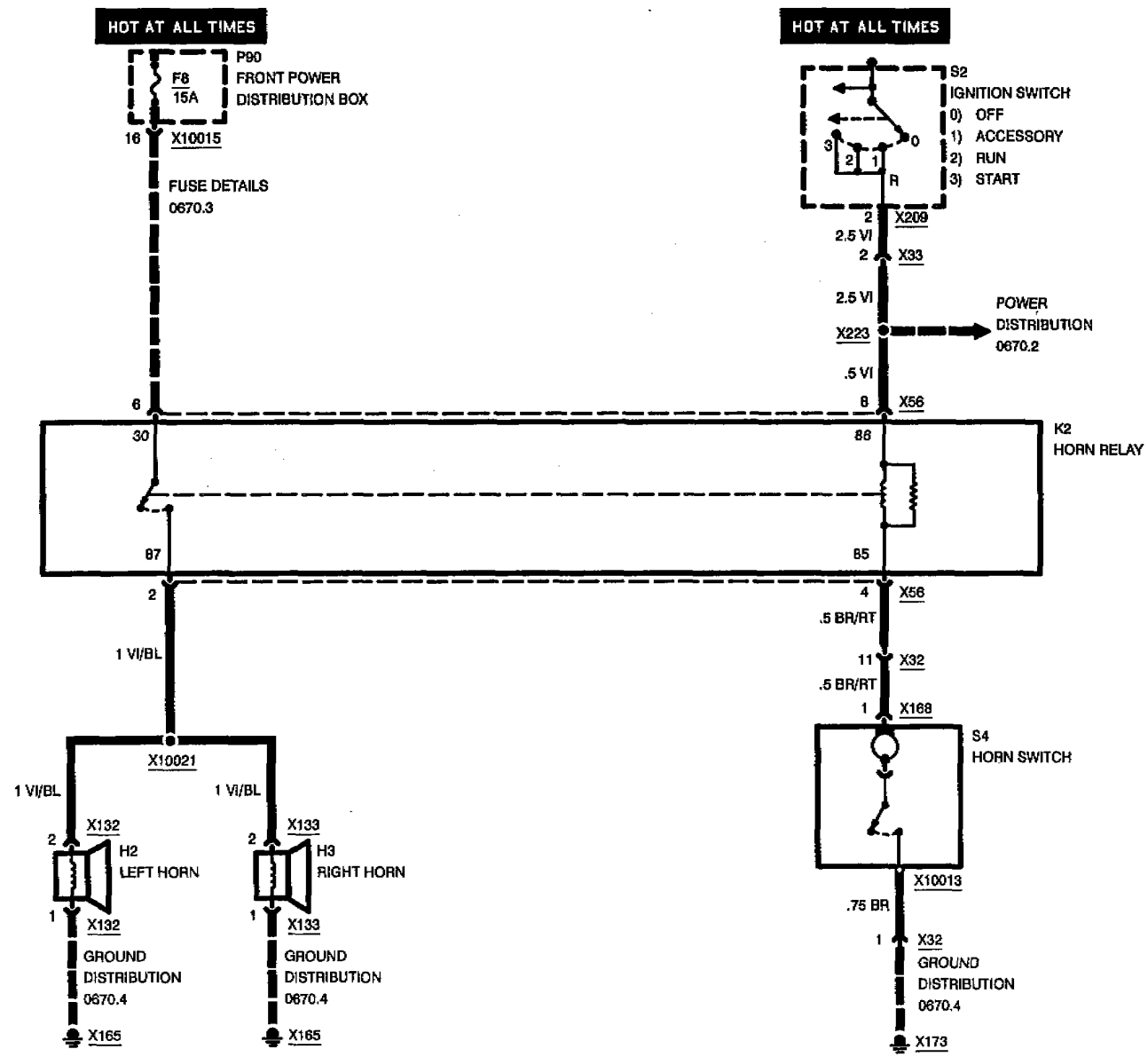


CENTRAL BODY ELECTRONICS (ZKE IV)

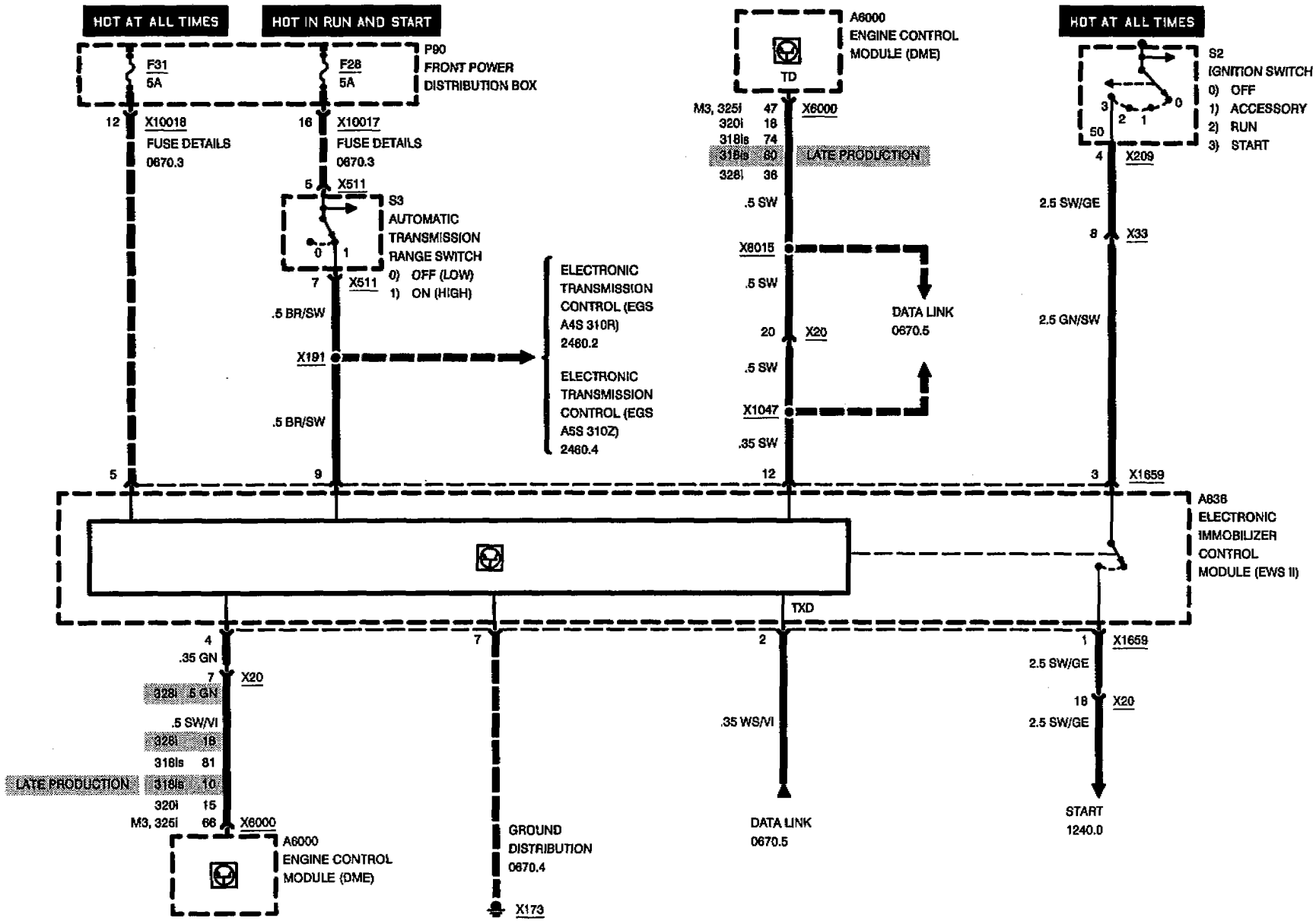


CENTRAL BODY ELECTRONICS (ZKE IV)

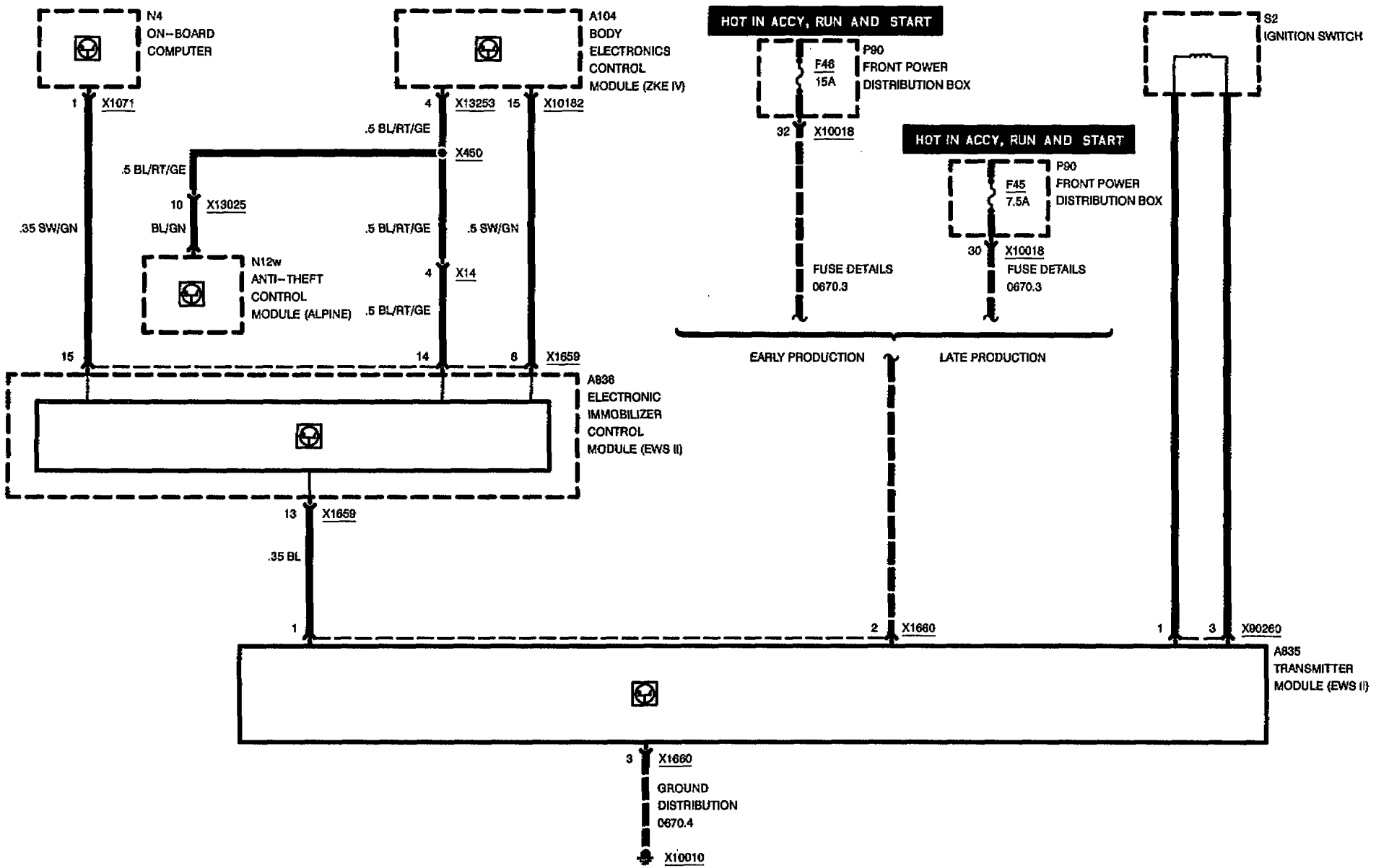



HOT AT ALL TIMES
P90
F8
15A
FRONT POWER
DISTRIBUTION BOX
16
X10015
FUSE DETAILS
0670.3
HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
2
X209
2.5 VI
2
X33
2.5 VI
X223
POWER
DISTRIBUTION
0670.2
.5 VI
6
30
87
2
1 VI/BL
8
X56
86
85
K2
HORN RELAY
4
X56
.5 BR/RT
11
X32
.5 BR/RT
1
X168
S4
HORN SWITCH
X10013
.75 BR
1
X32
GROUND
DISTRIBUTION
0670.4
X173
X10021
1 VI/BL
1 VI/BL
2
X132
H2
LEFT HORN
1
X132
GROUND
DISTRIBUTION
0670.4
X165
2
X133
H3
RIGHT HORN
1
X133
GROUND
DISTRIBUTION
0670.4
X165

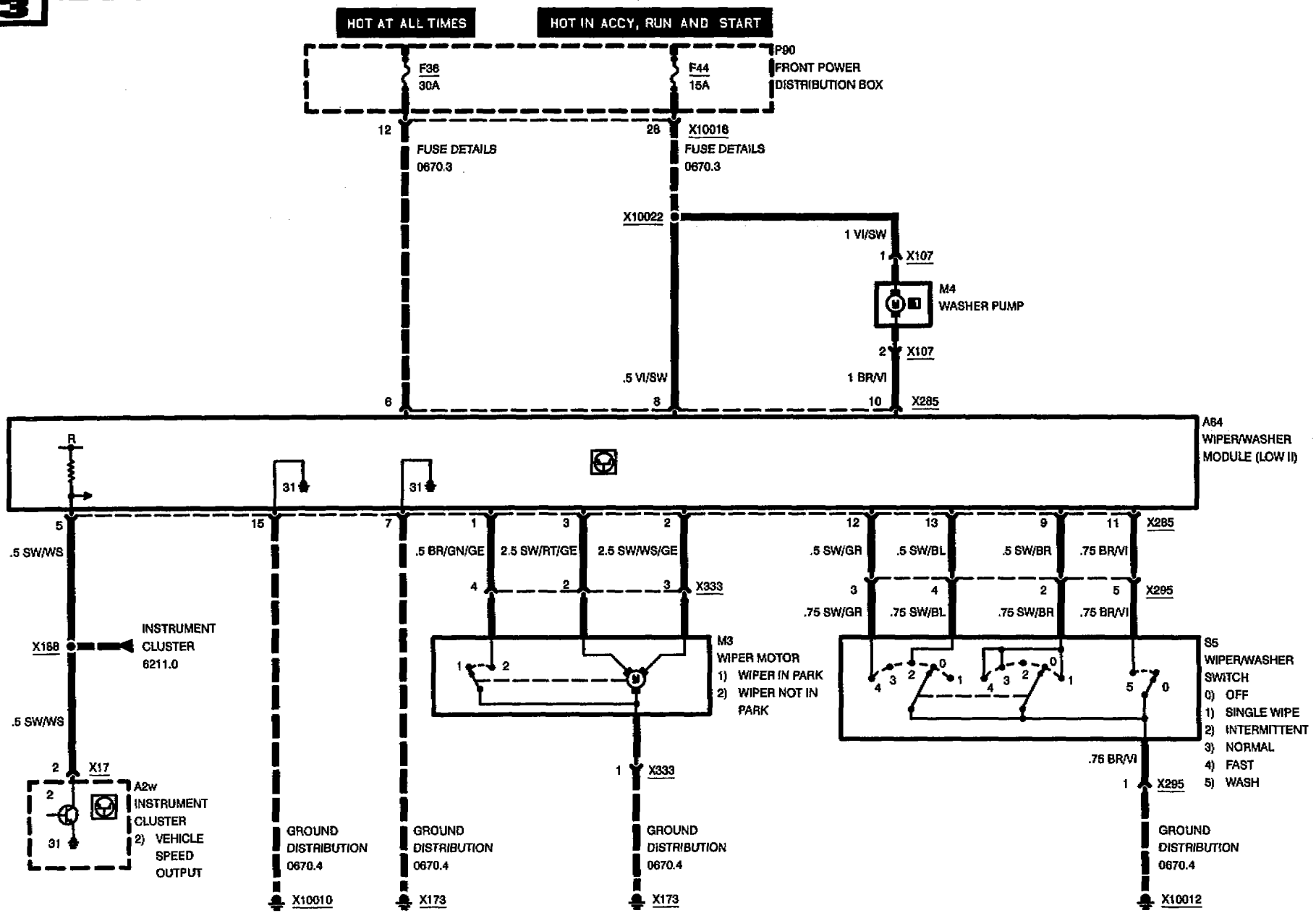
DRIVE–AWAY PROTECTION (EWS II)



DRIVE–AWAY PROTECTION (EWS II)

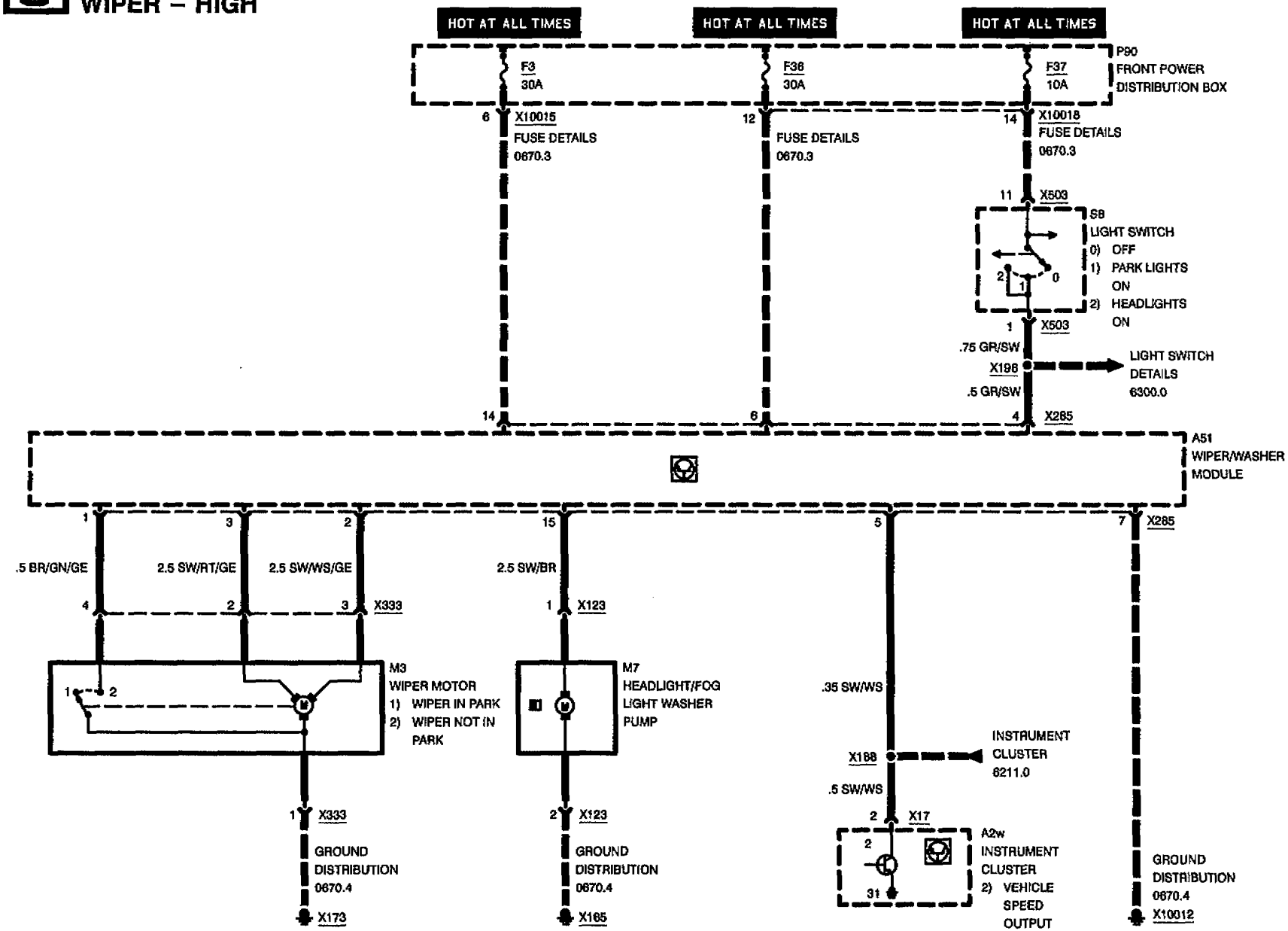


WIPER/WASHER MODULE (WWM)



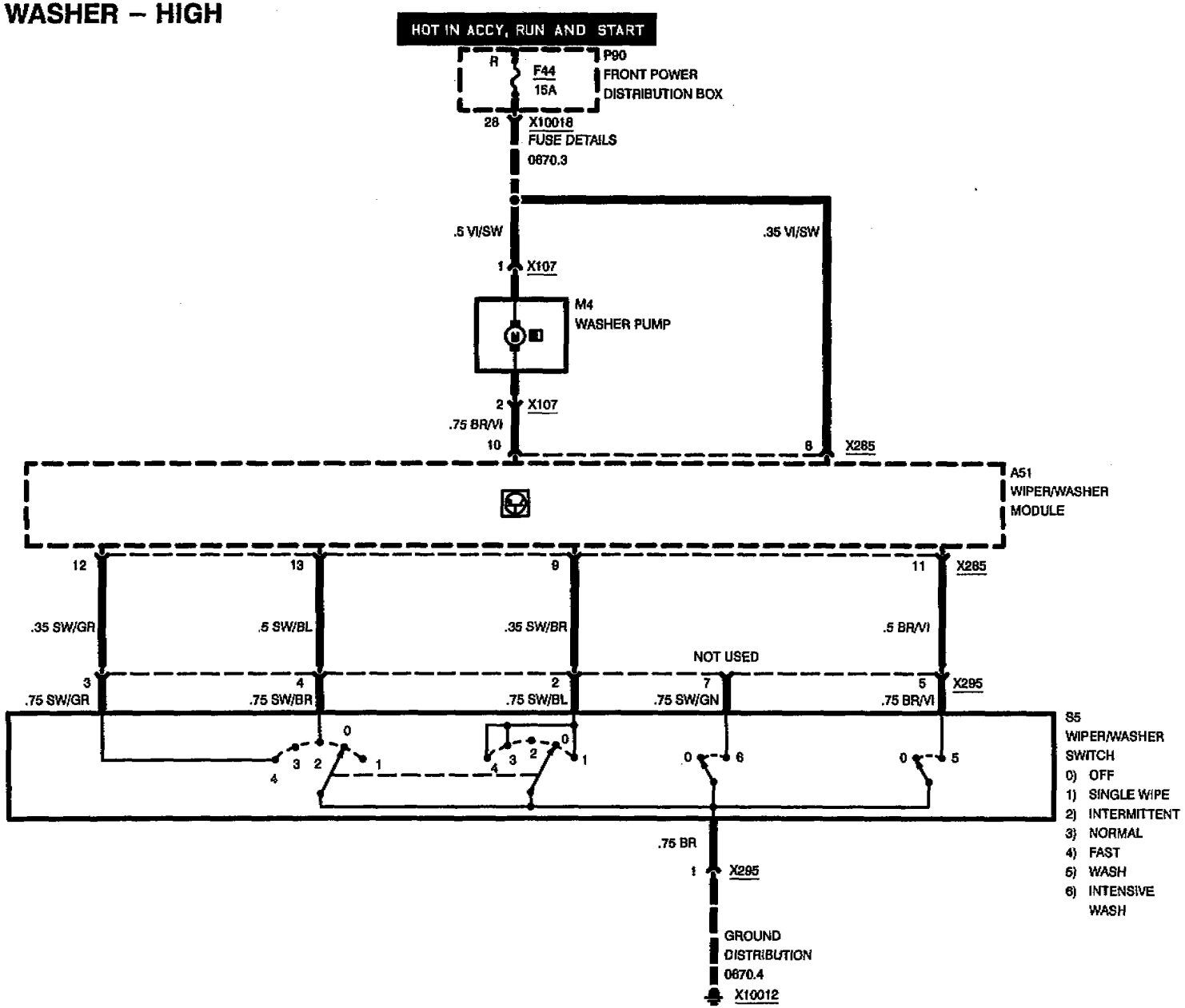
WIPER/WASHER MODULE (WWM)

WIPER – HIGH

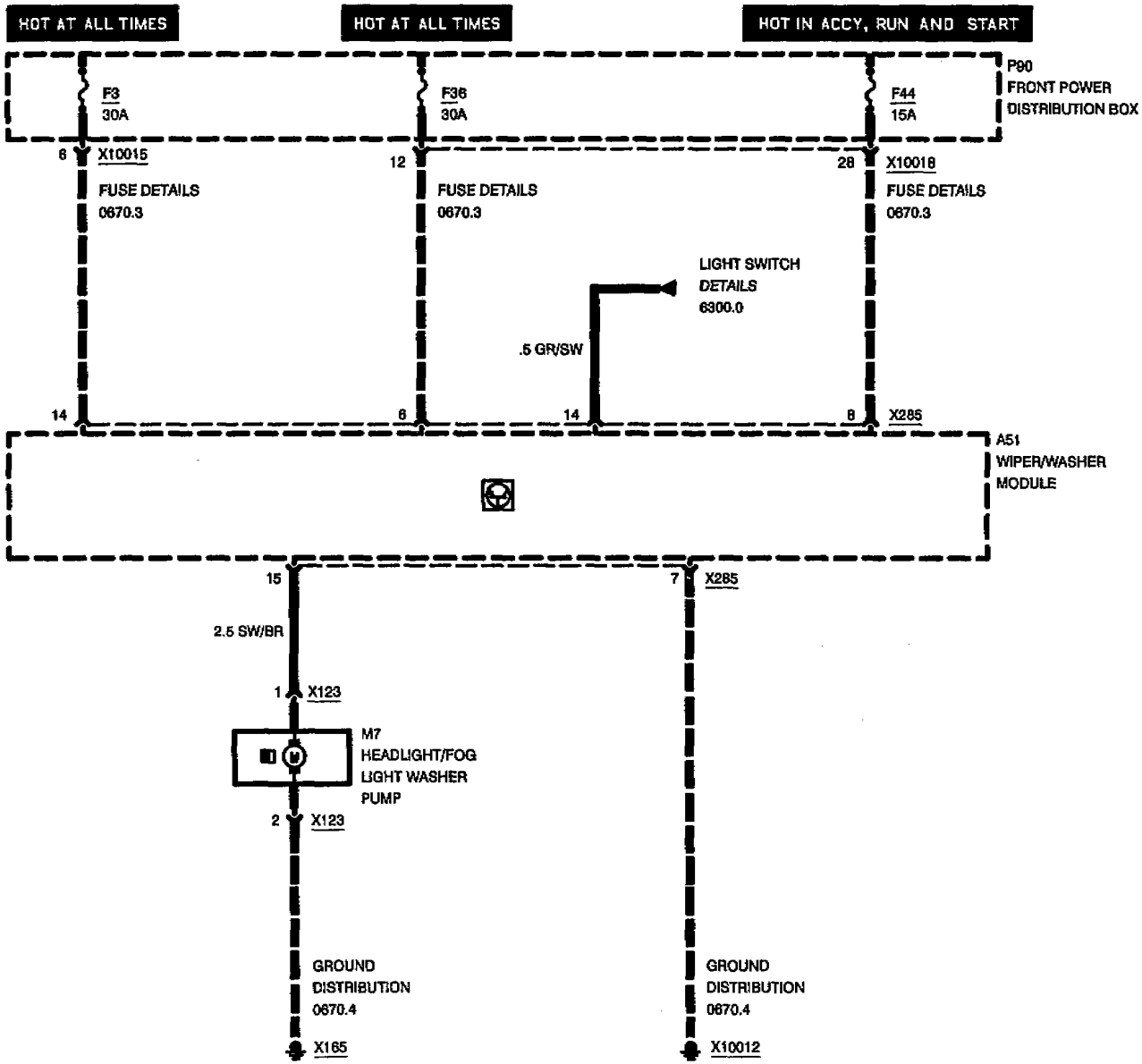


WIPER/WASHER MODULE (WWM)

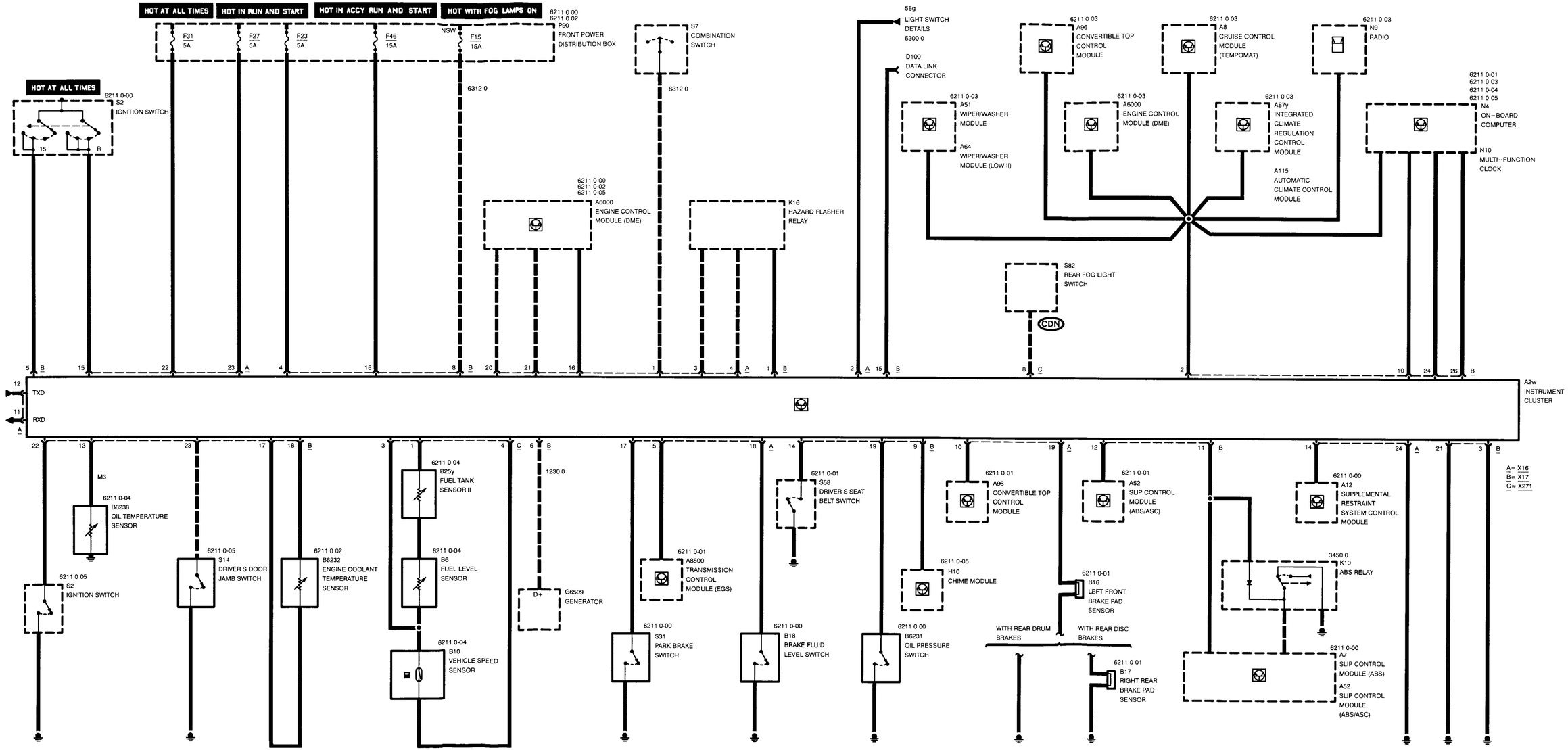
WASHER – HIGH

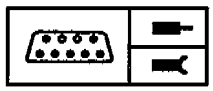


HEADLIGHT WASHER (SRA)



04/97 6211 0 1996
04/97 6211 0 1996



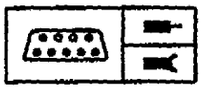


Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10	E	Convertible Roll over signal	Convertible top control module
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13	E	M3 oil temperature	Engine oil temperature sensor
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15		Not used	
16	E	"Check engine" indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21	E	Fuel consumption signal + KVA	Engine control module (DME)
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

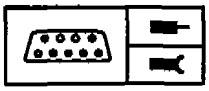


Pin Assignments

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10	A	Information signal, fuel tank content	On-board computer
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS)
12	E	ASC signal	ASC control module
13		Not used	
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distibution box, fuse 46
17	A	Coolant temperature sensor	Coolant temperature sensor
18	E	Coolant temperature sensor	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21	M	Ground	Ground point
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver's door open	Driver's door jamb switch
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

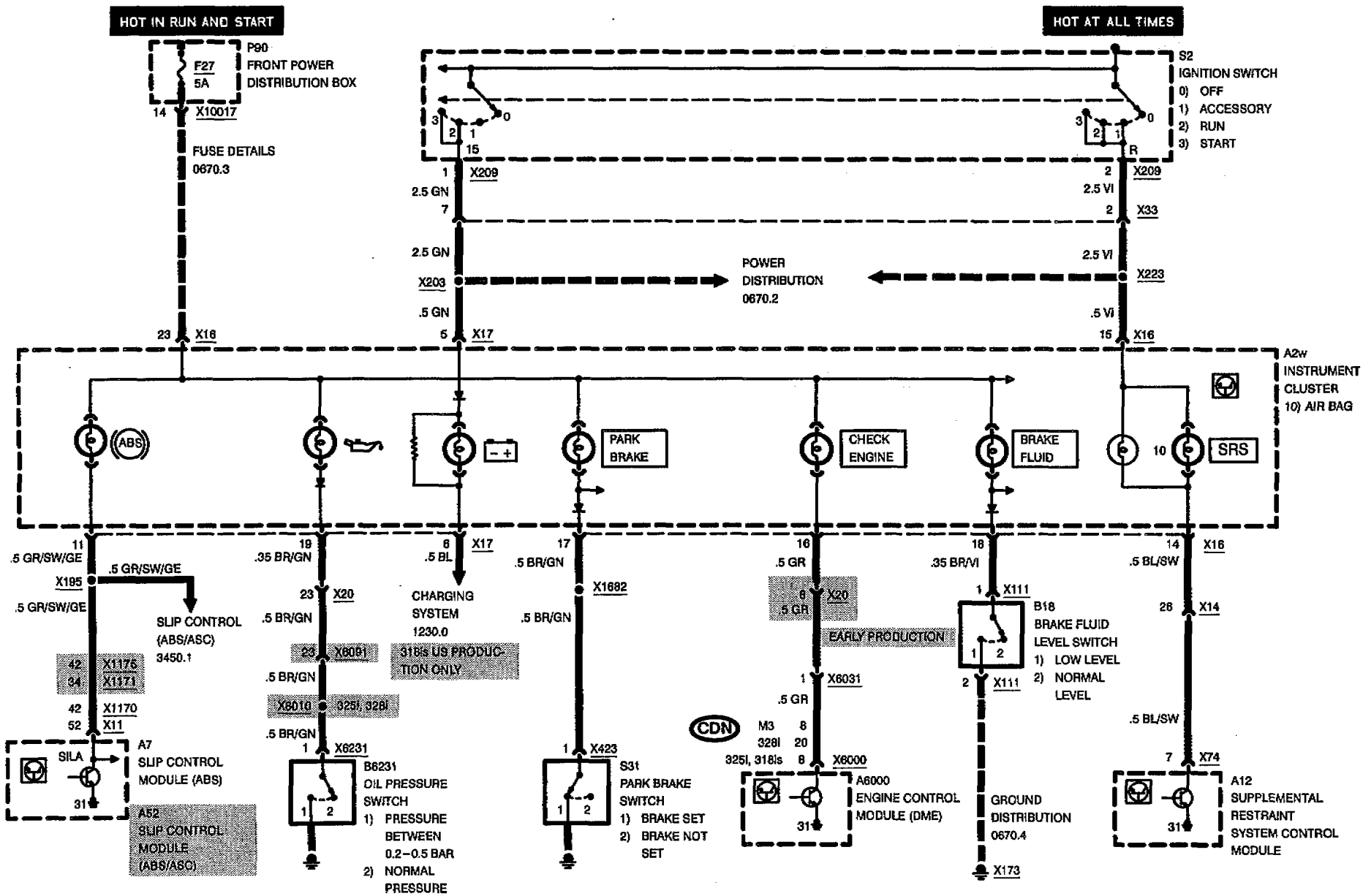
X271

Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal tw	Vehicle speed sensor
5	E	Rear fog lights indicator control	Rear fog light switch
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

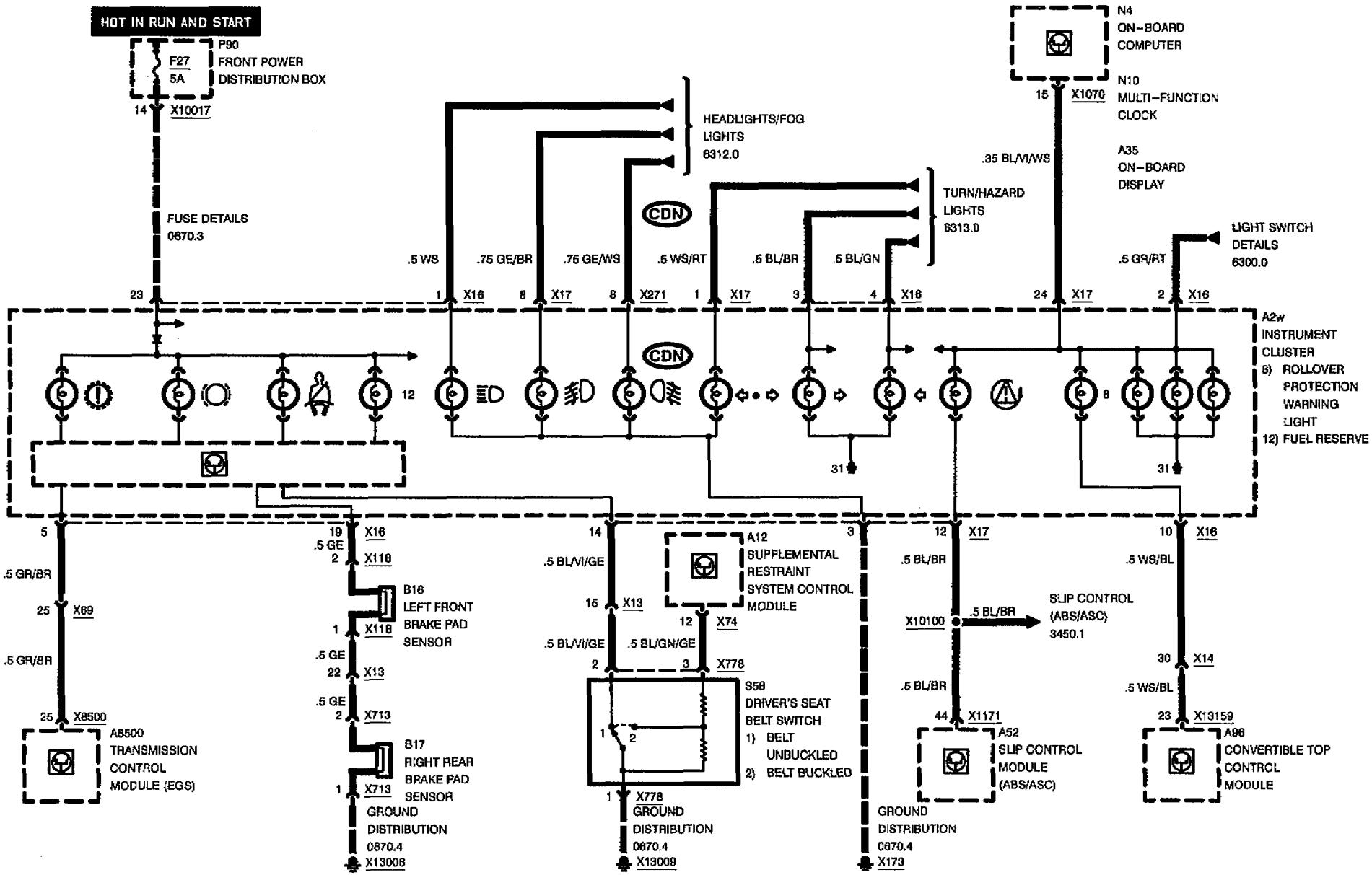
INSTRUMENT CLUSTER

INDICATORS



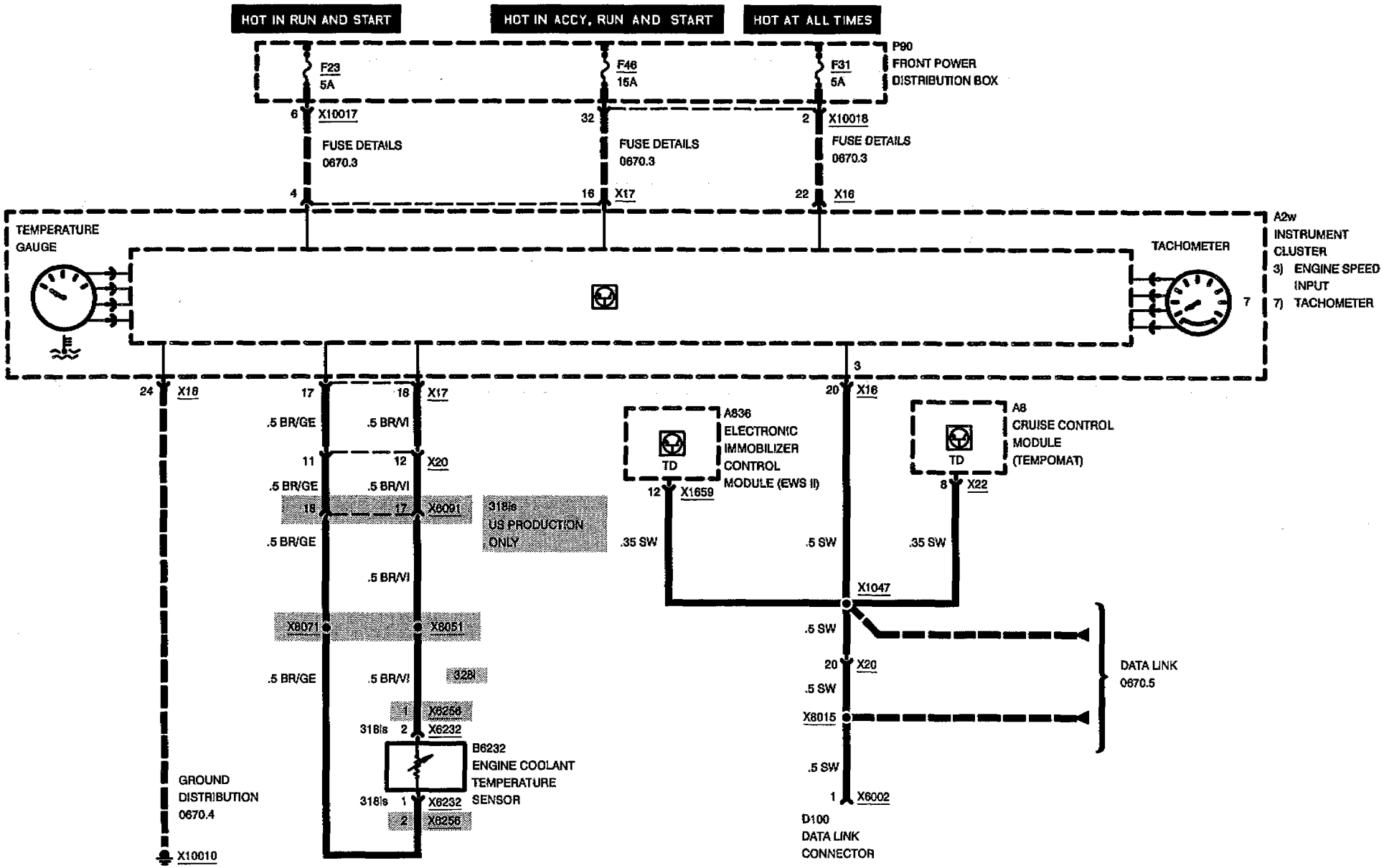
INSTRUMENT CLUSTER

INDICATORS



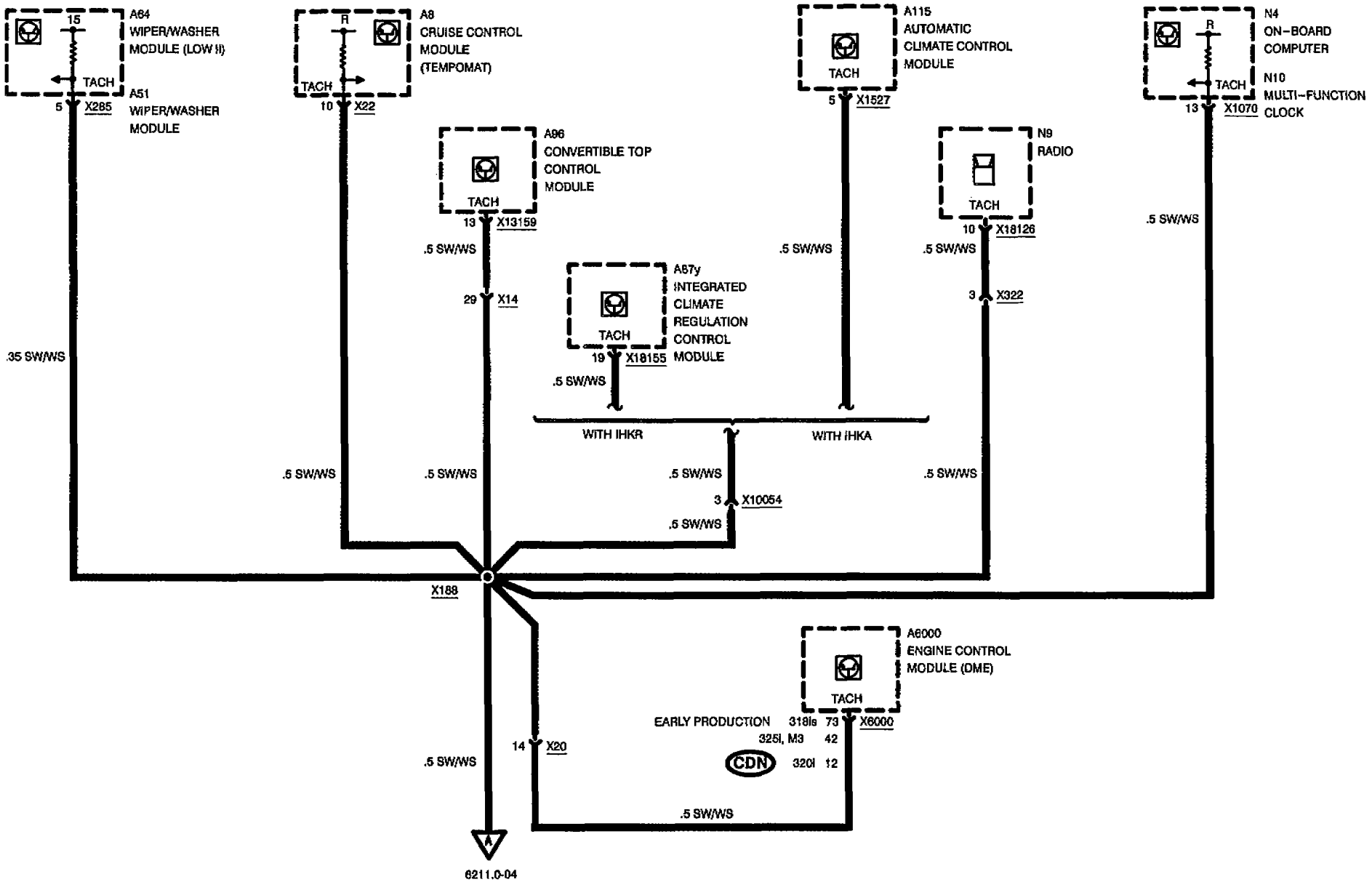
INSTRUMENT CLUSTER

INDICATORS



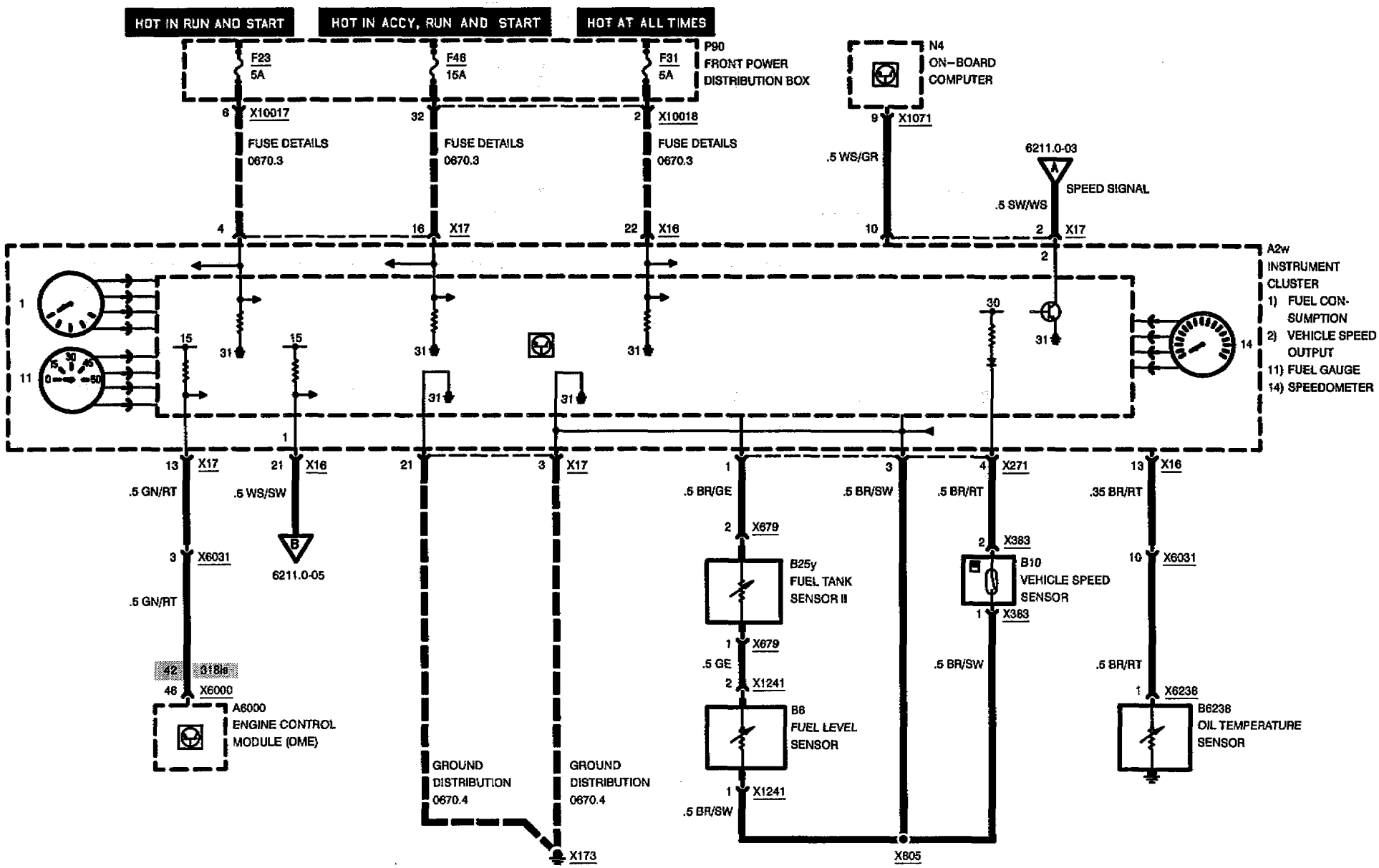
INSTRUMENT CLUSTER

SIGNAL–OUTPUT SPEEDOMETER



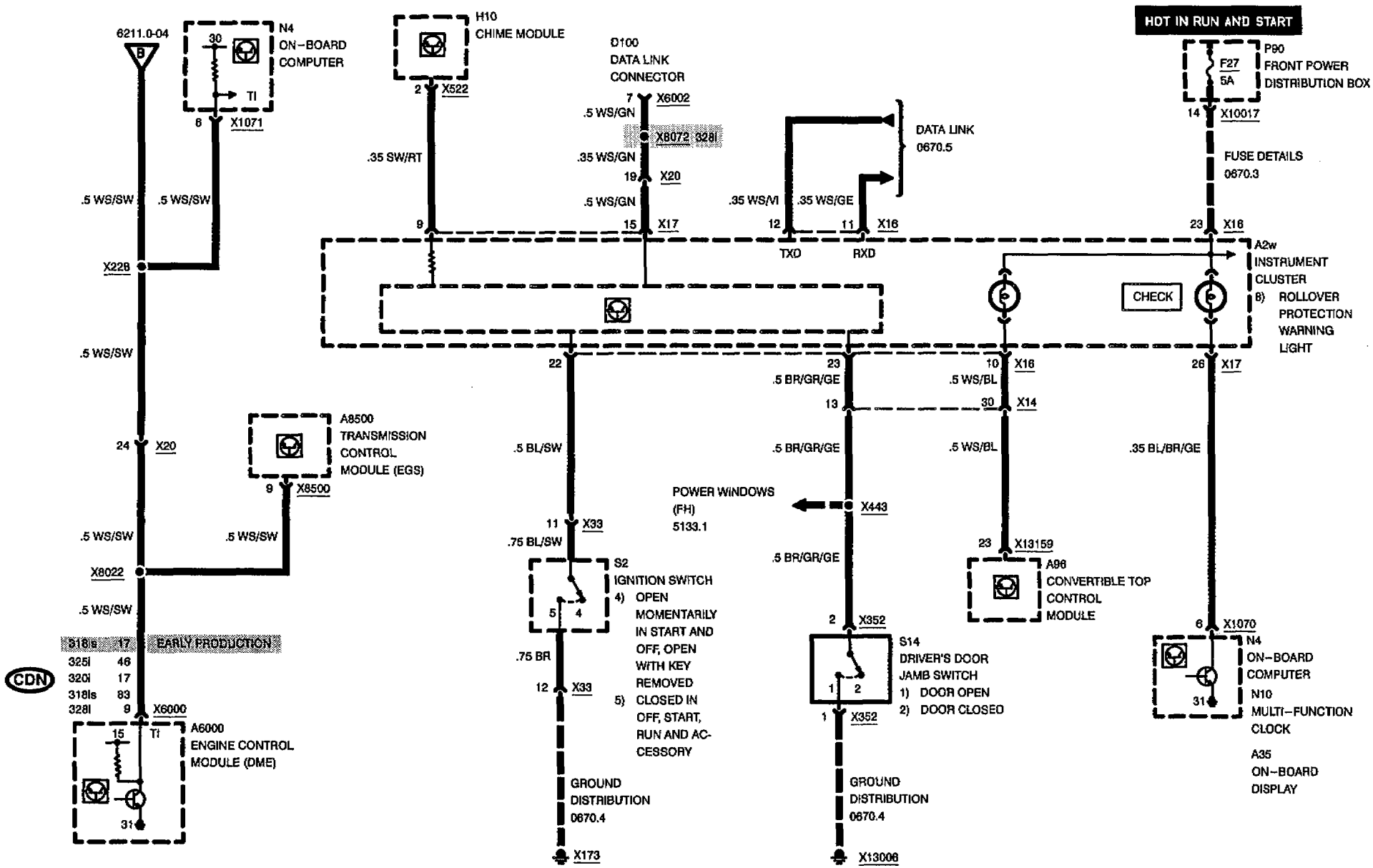
INSTRUMENT CLUSTER

INDICATORS

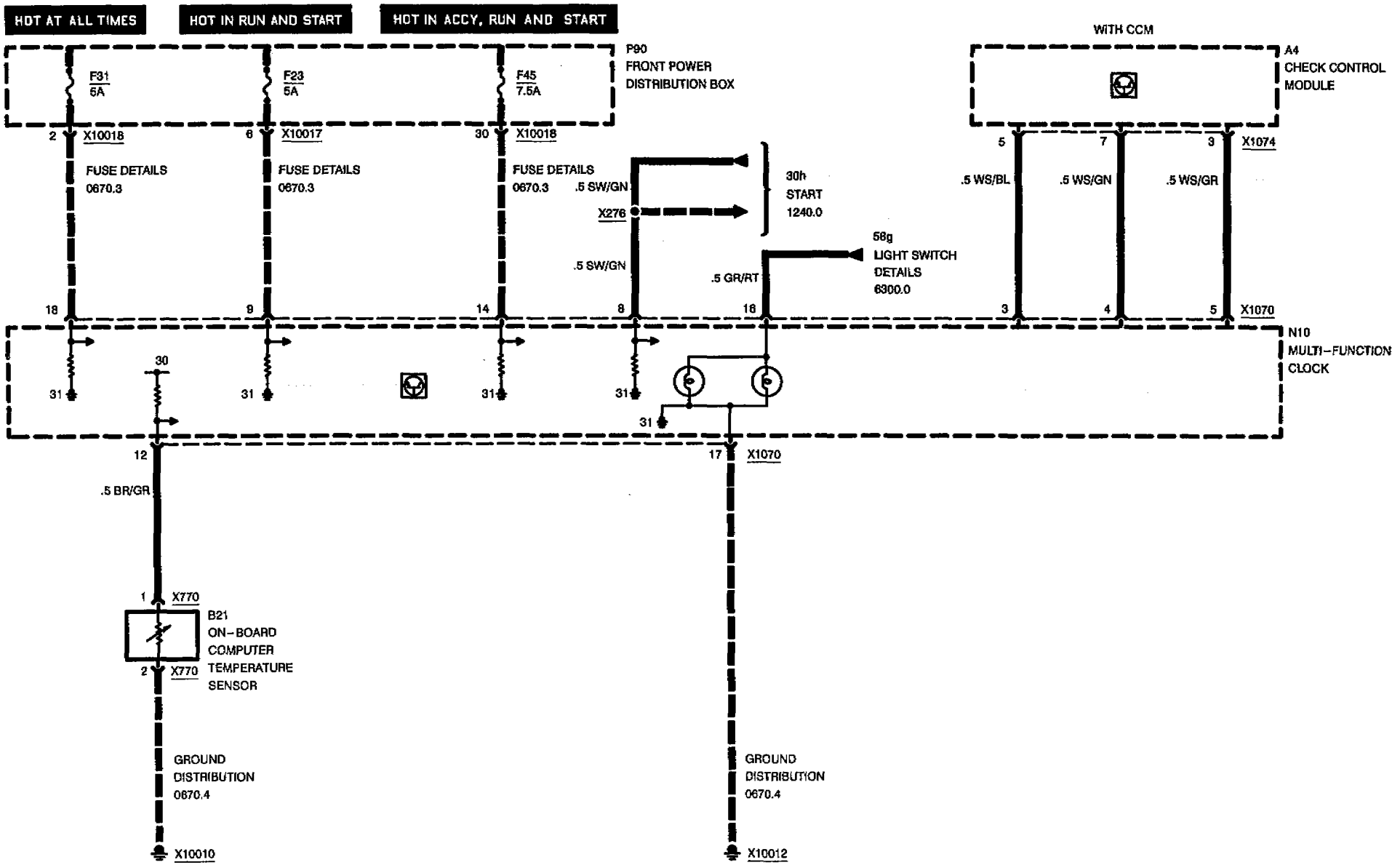


INSTRUMENT CLUSTER

INDICATORS

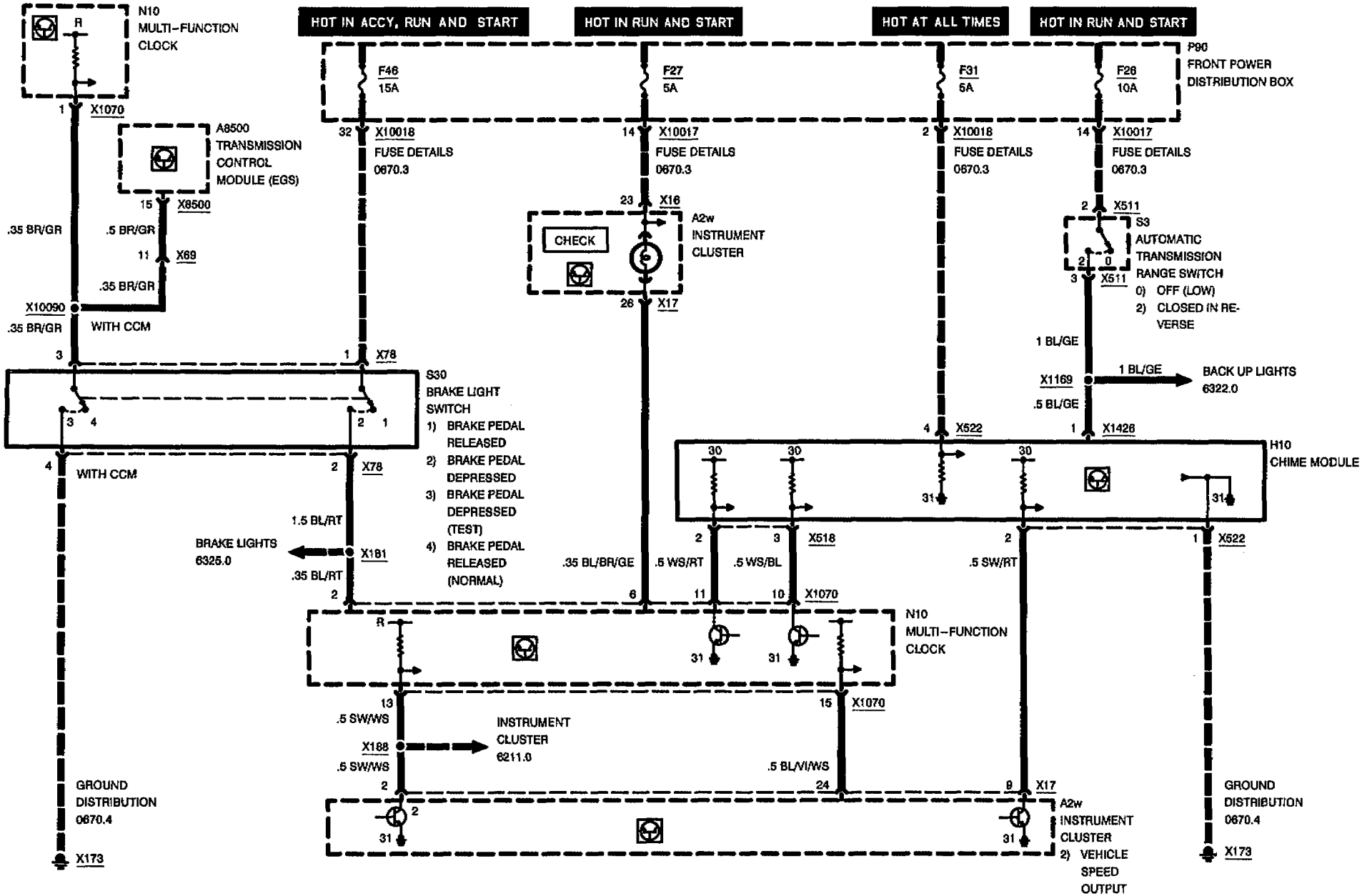


MULTI–FUNCTION CLOCK



MULTI–FUNCTION CLOCK

CHIME, BRAKE LIGHT SWITCH



ON-BOARD DISPLAY

HOT IN ACCY, RUN AND START

HOT IN RUN AND START | HOT AT ALL TIMES | HOT IN RUN AND START | HOT IN ACCY, RUN AND START | HOT IN ACCY, RUN AND START

F23 5A | F45 7.5A | F31 5A | F27 5A | F46 15A | F45 7.5A

P90 FRONT POWER DISTRIBUTION BOX

8 X10017 FUSE DETAILS 0670.3
30 F45 7.5A FUSE DETAILS 0670.3
2 X10018 FUSE DETAILS 0670.3
14 X10017 FUSE DETAILS 0670.3
32 FUSE DETAILS 0670.3
30 X10018 FUSE DETAILS 0670.3

23 X16 — A2w INSTRUMENT CLUSTER (CHECK) — 26 X17

1 X78 — S30 BRAKE LIGHT SWITCH
1) BRAKE PEDAL RELEASED
2) BRAKE PEDAL DEPRESSED
2 X78

6 X1074 — A4 CHECK CONTROL MODULE (LAC, DATA, CLC) — 5, 7, 3 X1074

1.5 BL/RT → X181 → BRAKE LIGHTS 6325.0

58g LIGHT SWITCH DETAILS 6300.0

.5 SW/GN → X276 → 30h START 1240.0

.5 BL/BR/GE 6 | .5 GR/RT 16 | .5 BL/RT 2 | .5 WS/BL 3 | .5 WS/GN 4 | .5 WS/GR 5 | .5 SW/GN 8 X1070

9 14 18

A35 ON-BOARD DISPLAY (LAC, DATA, CLC)

15 | 1 | 17 X1070

.5 BL/VI/WS

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 2460.2

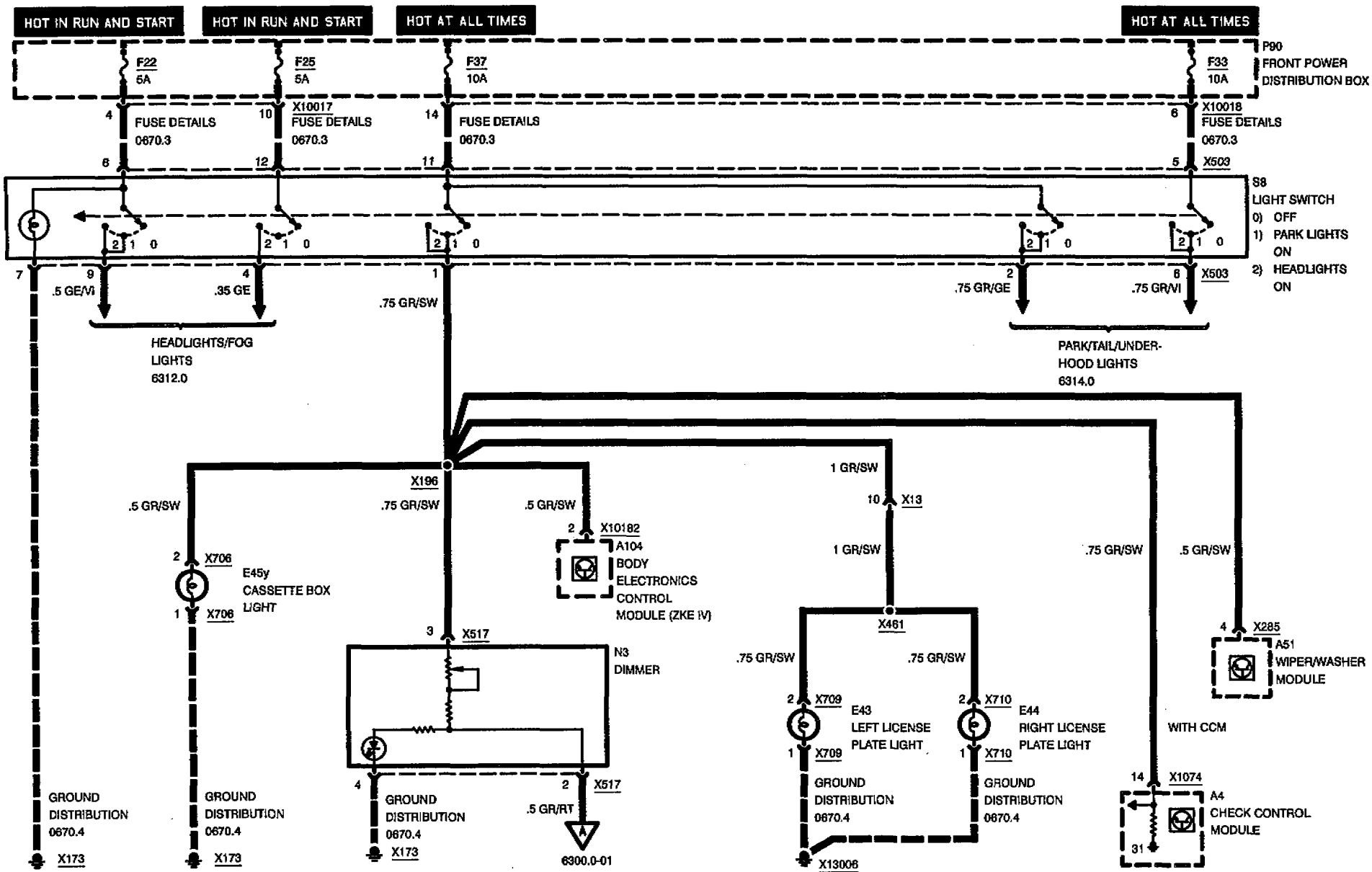
.35 BR/GR → X10090 → .35 BR/GR

.35 BR/GR → 3 X78 — S30 BRAKE LIGHT SWITCH
3) BRAKE PEDAL DEPRESSED (TEST)
4) BRAKE PEDAL RELEASED (NORMAL)
4 X78 — GROUND DISTRIBUTION 0670.4 — X173

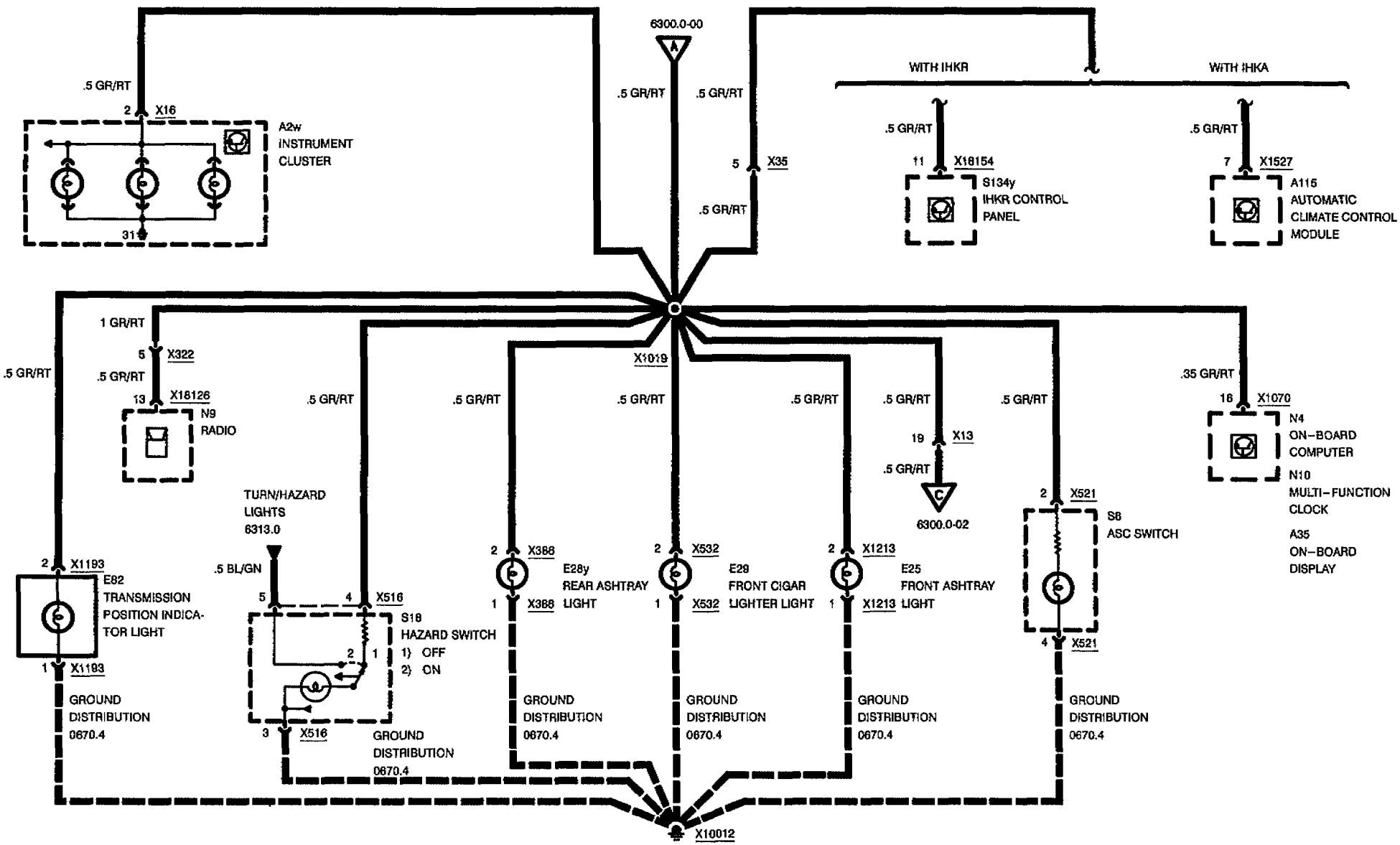
24 X17 — A2w INSTRUMENT CLUSTER

GROUND DISTRIBUTION 0670.4 — X10012

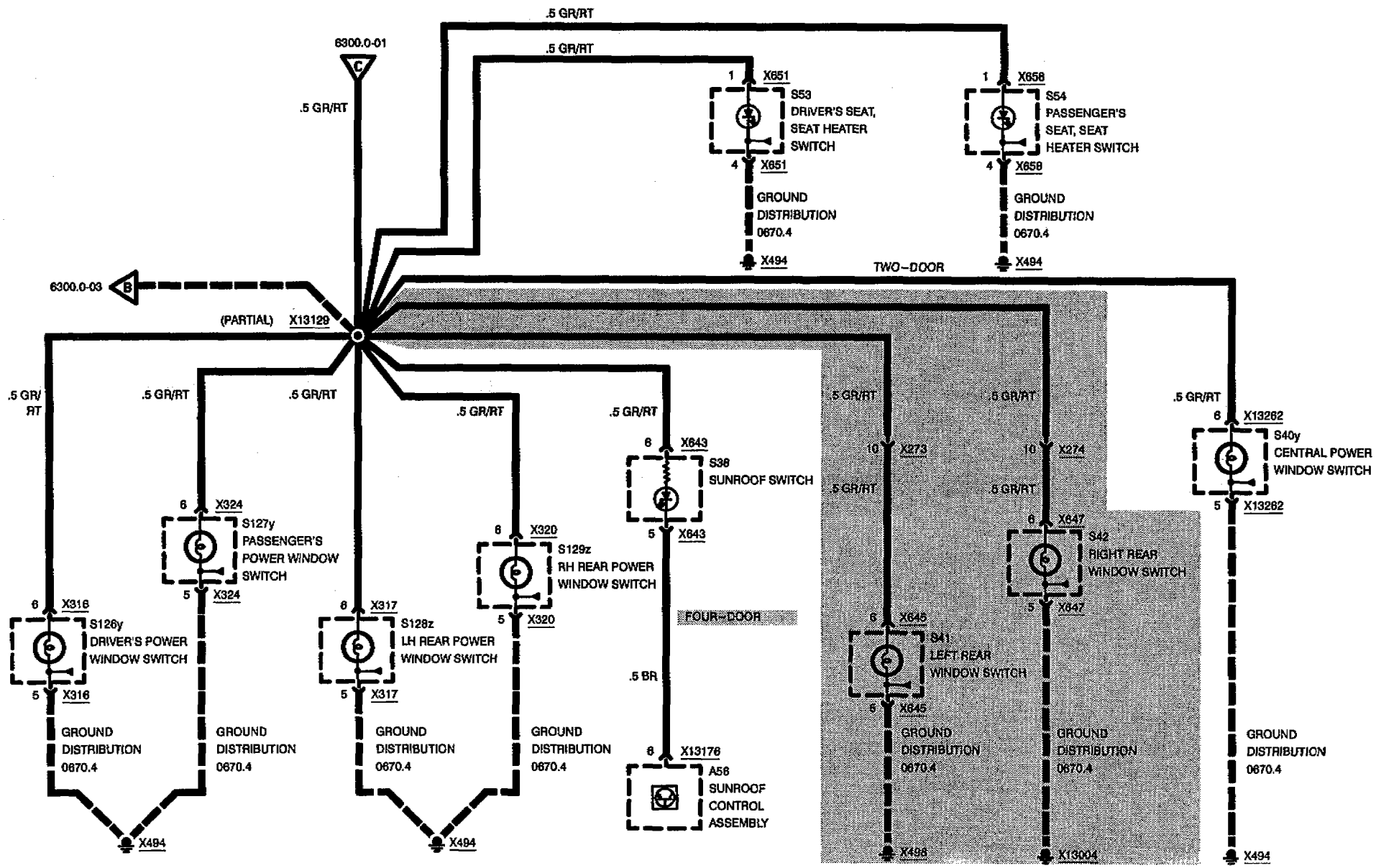
LIGHT SWITCH DETAILS



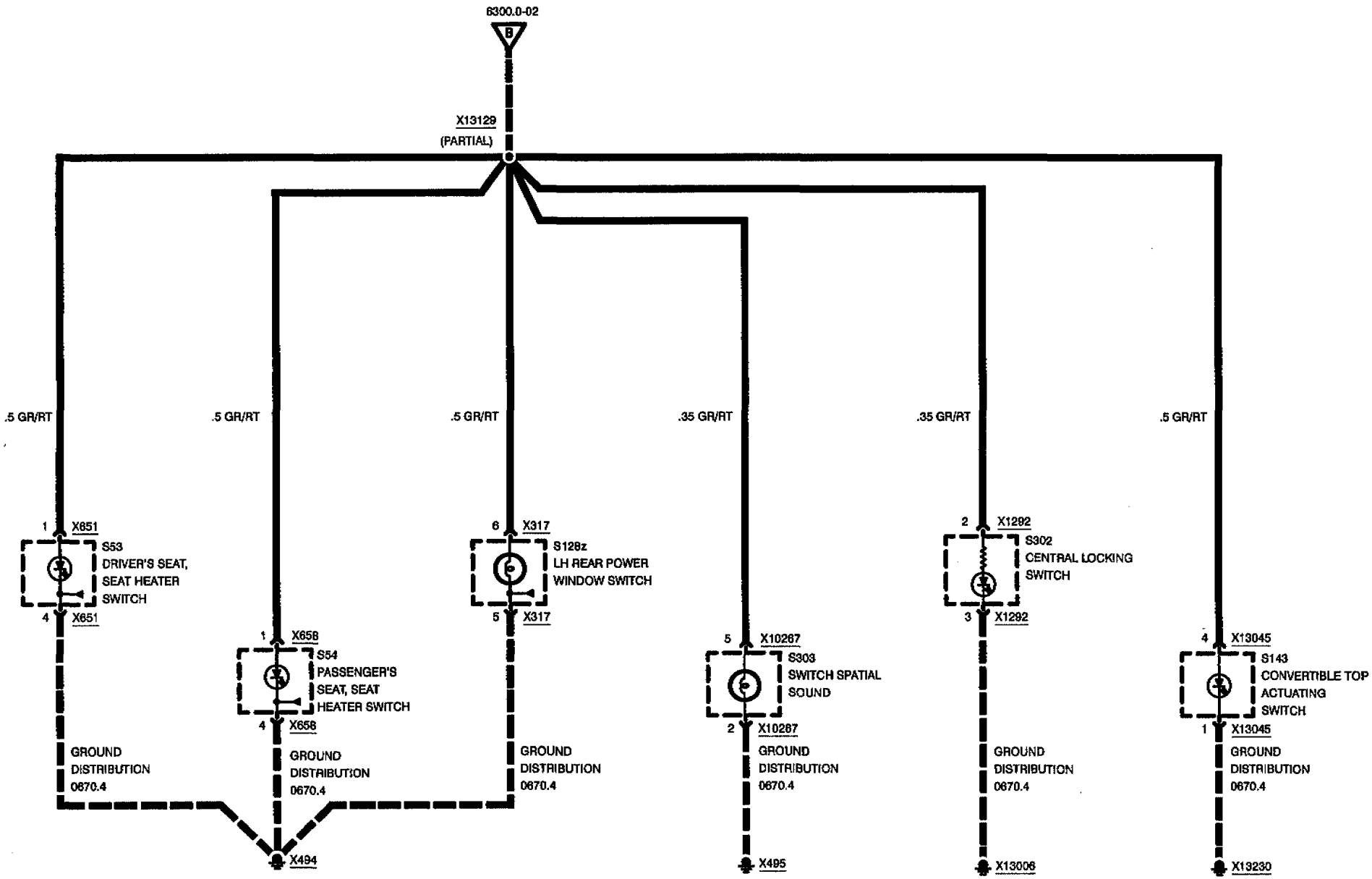
LIGHT SWITCH DETAILS



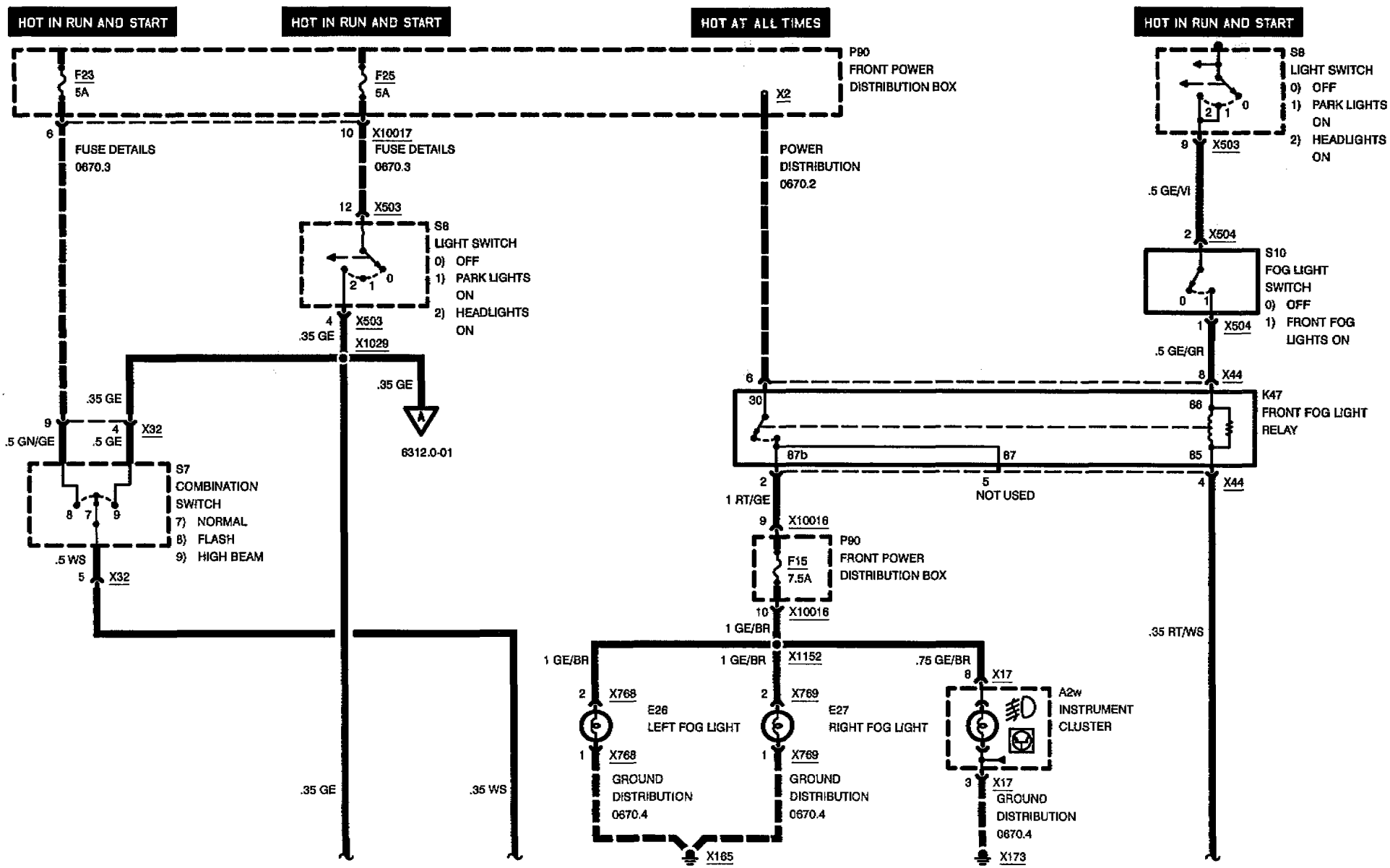
LIGHT SWITCH DETAILS

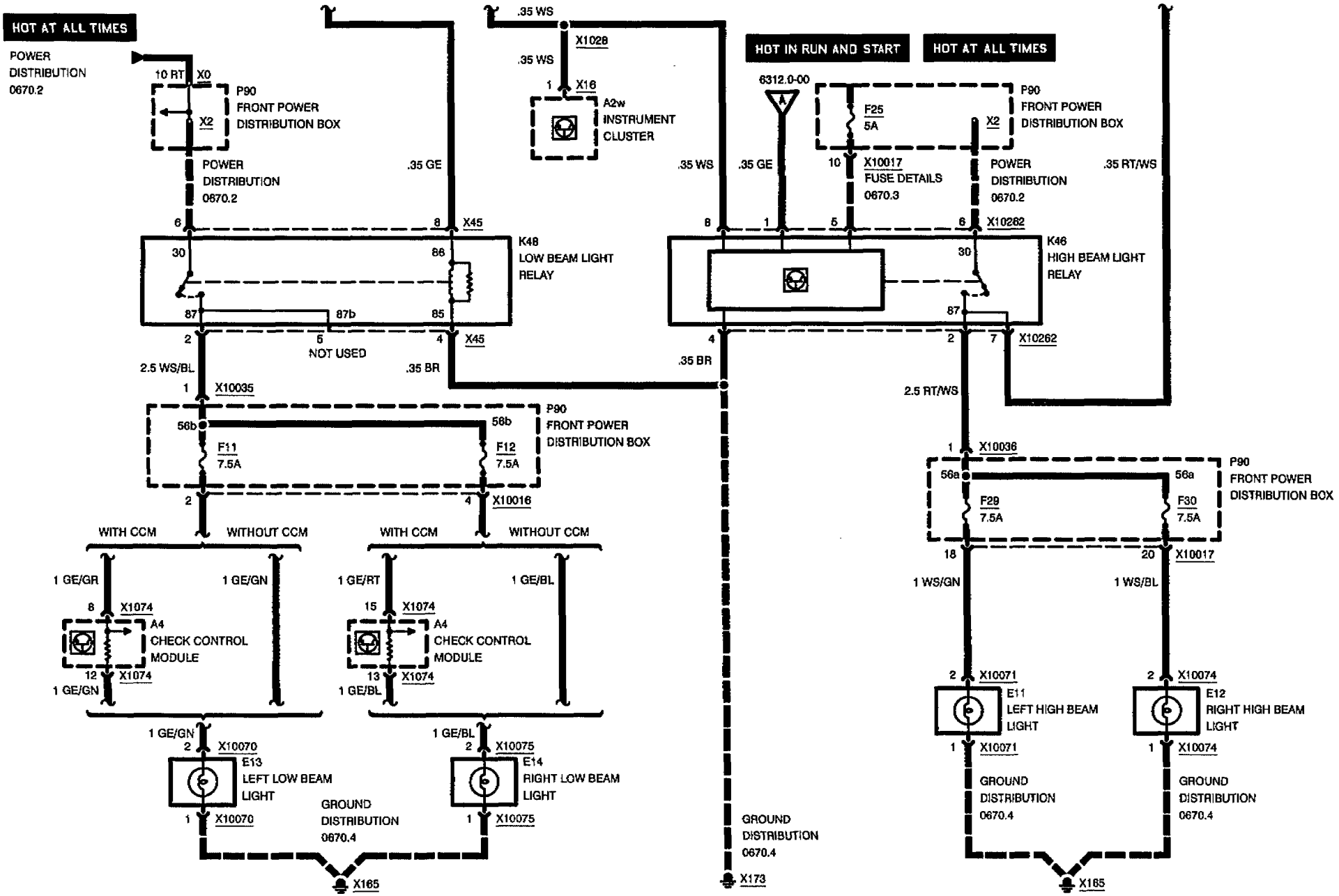


LIGHT SWITCH DETAILS

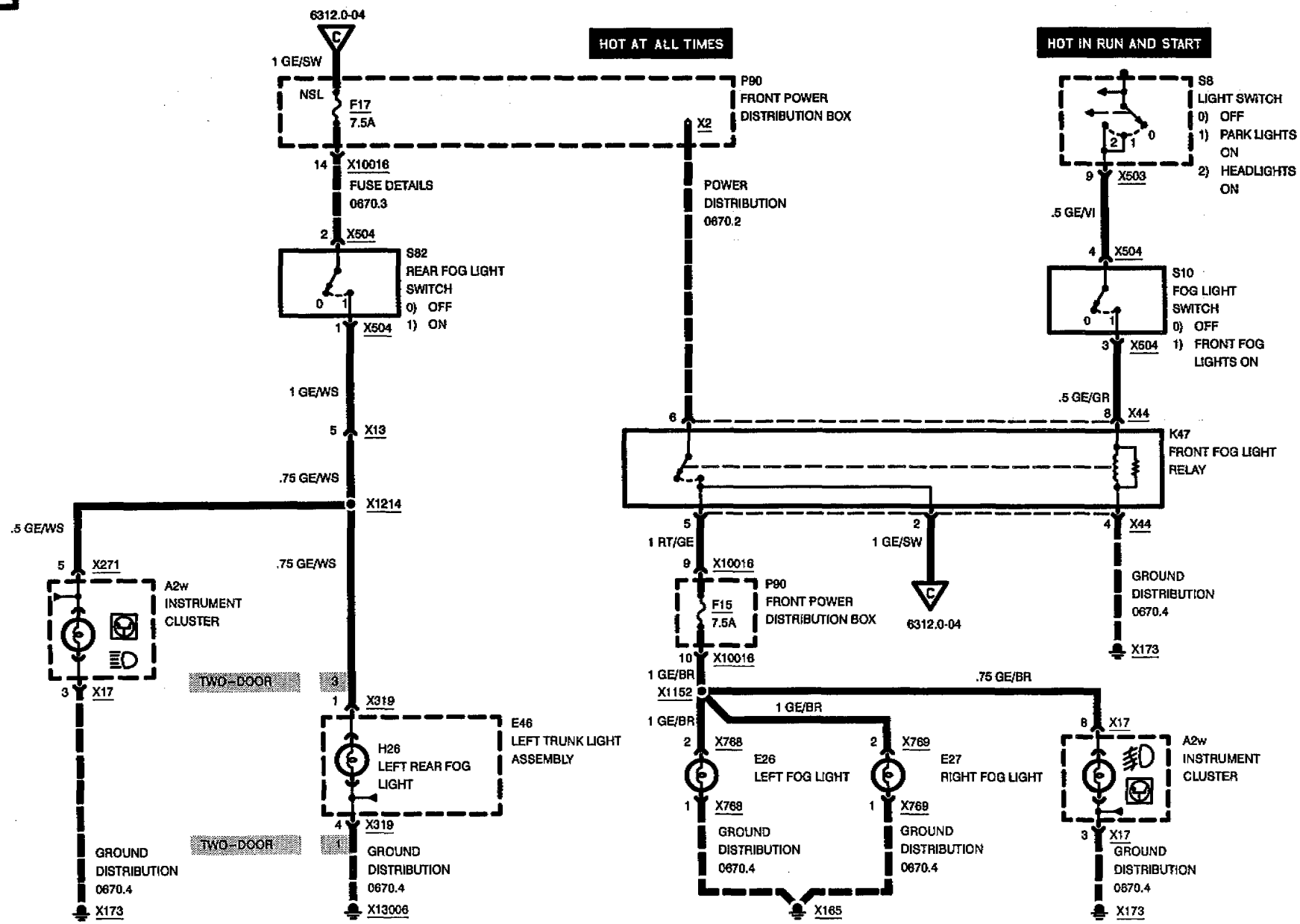


HEADLIGHTS/FOG LIGHTS

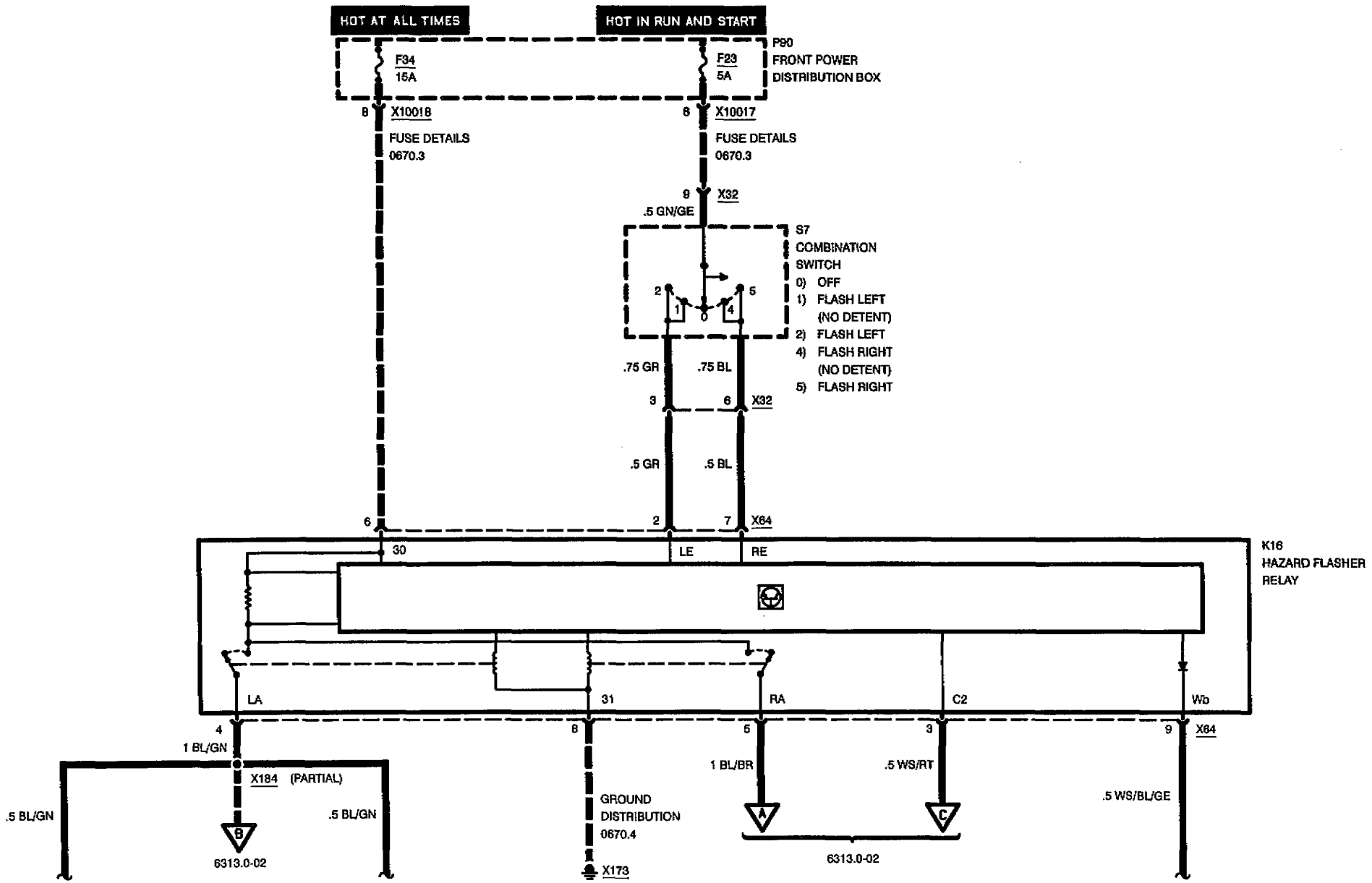


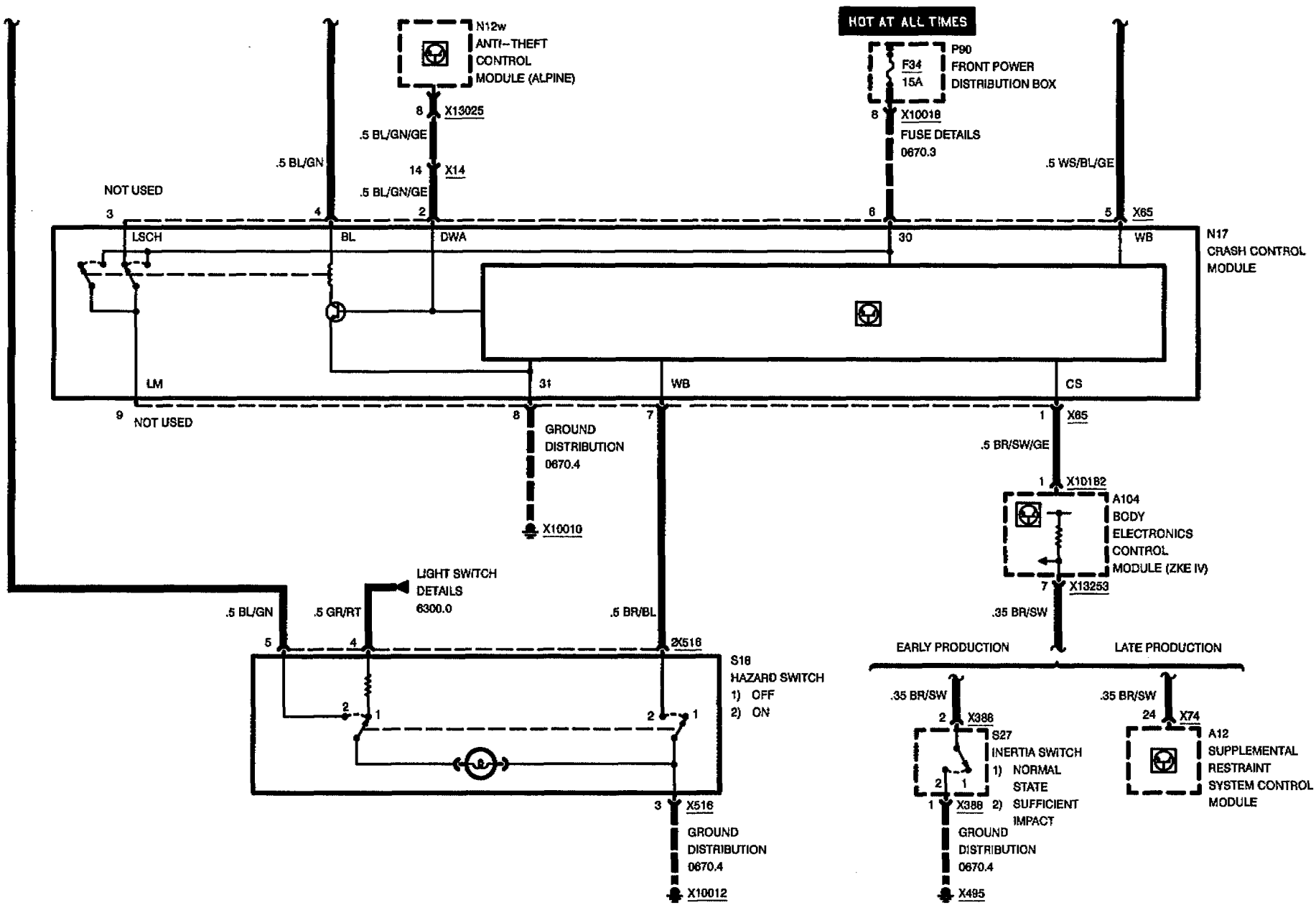

HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
10 RT
X0
X2
P90 FRONT POWER DISTRIBUTION BOX
POWER DISTRIBUTION 0670.2
.35 GE
6
8
X45
K48 LOW BEAM LIGHT RELAY
30
86
87
87b
85
2
5 NOT USED
4
X45
2.5 WS/BL
1
X10035
.35 BR
56b
F11 7.5A
F12 7.5A
P90 FRONT POWER DISTRIBUTION BOX
2
4
X10016
WITH CCM
WITHOUT CCM
1 GE/GR
1 GE/GN
8
X1074
A4 CHECK CONTROL MODULE
12
X1074
1 GE/GN
1 GE/GN
2
X10070
E13 LEFT LOW BEAM LIGHT
1
X10070
GROUND DISTRIBUTION 0670.4
X165
.35 WS
X1028
.35 WS
1
X16
A2w INSTRUMENT CLUSTER
WITH CCM
WITHOUT CCM
1 GE/RT
1 GE/BL
15
X1074
A4 CHECK CONTROL MODULE
13
X1074
1 GE/BL
1 GE/BL
2
X10075
E14 RIGHT LOW BEAM LIGHT
1
X10075
GROUND DISTRIBUTION 0670.4
HOT IN RUN AND START
HOT AT ALL TIMES
6312.0-00
.35 WS
.35 GE
8
1
5
F25 5A
X2
P90 FRONT POWER DISTRIBUTION BOX
10
X10017 FUSE DETAILS 0670.3
POWER DISTRIBUTION 0670.2
.35 RT/WS
6
X10262
K46 HIGH BEAM LIGHT RELAY
30
87
4
.35 BR
2
7
X10262
2.5 RT/WS
1
X10036
56a
F29 7.5A
F30 7.5A
56a
P90 FRONT POWER DISTRIBUTION BOX
18
20
X10017
1 WS/GN
1 WS/BL
2
X10071
E11 LEFT HIGH BEAM LIGHT
1
X10071
GROUND DISTRIBUTION 0670.4
2
X10074
E12 RIGHT HIGH BEAM LIGHT
1
X10074
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X173
X165

HEADLIGHTS/FOG LIGHTS

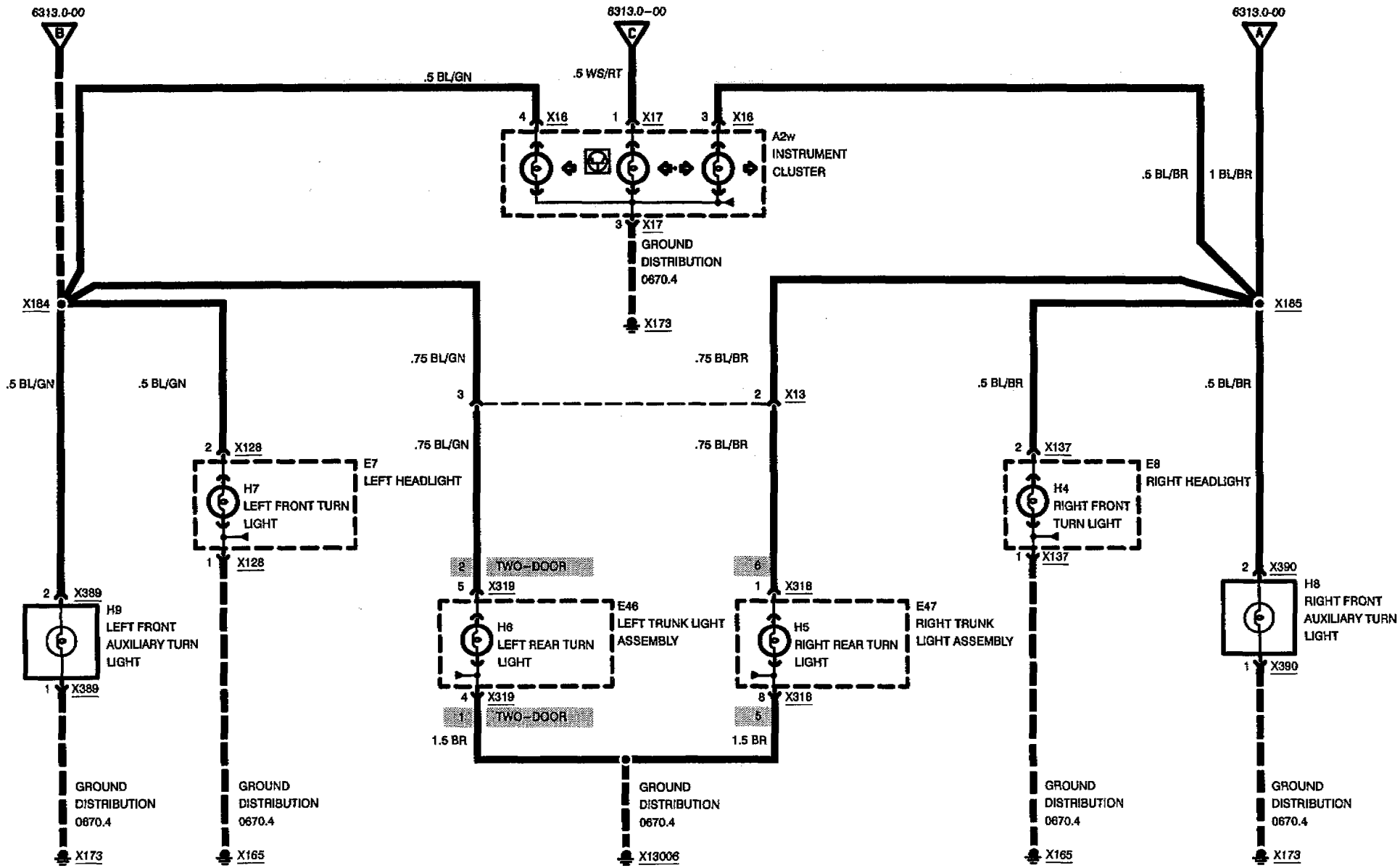


TURN/HAZARD LIGHTS

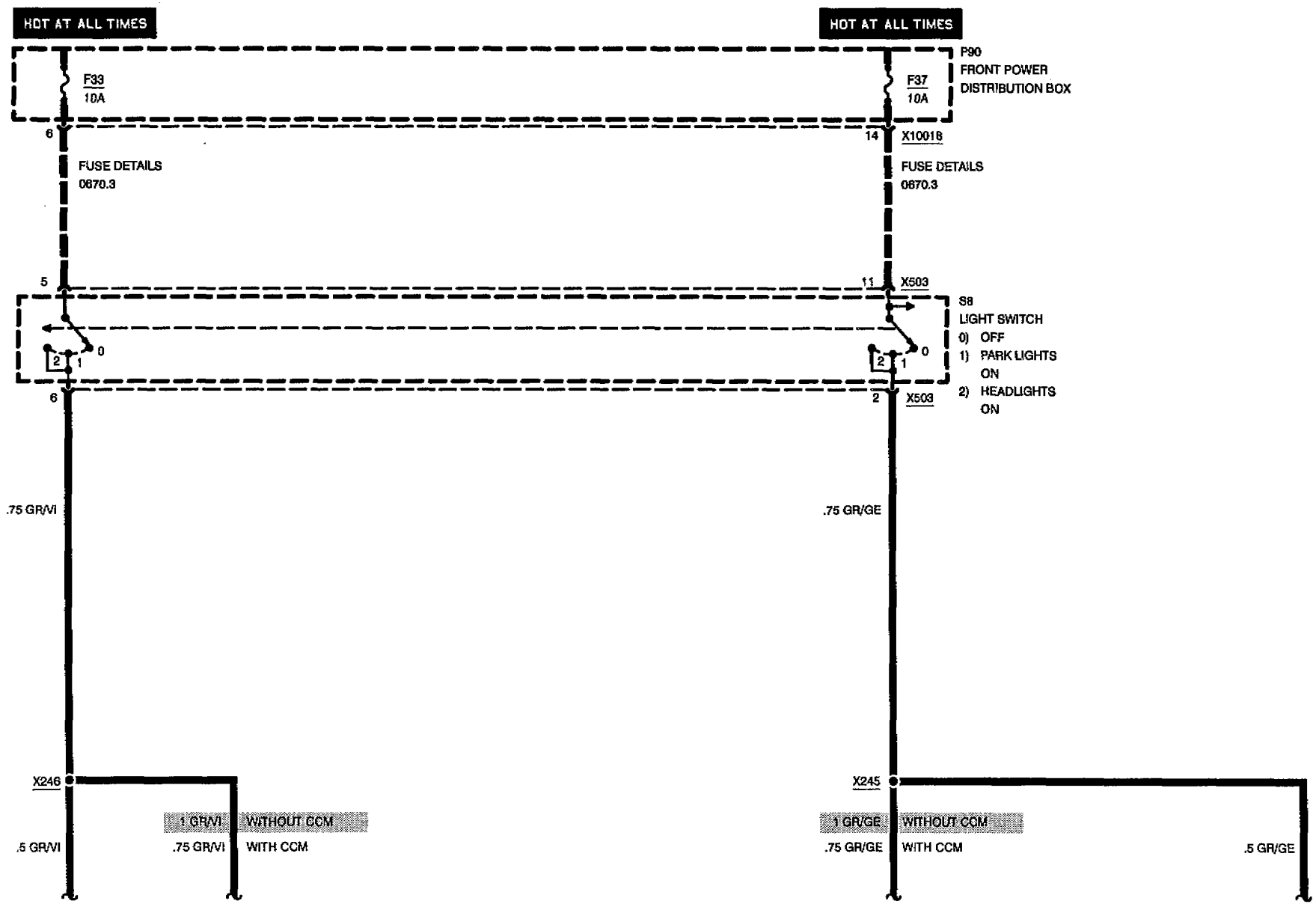


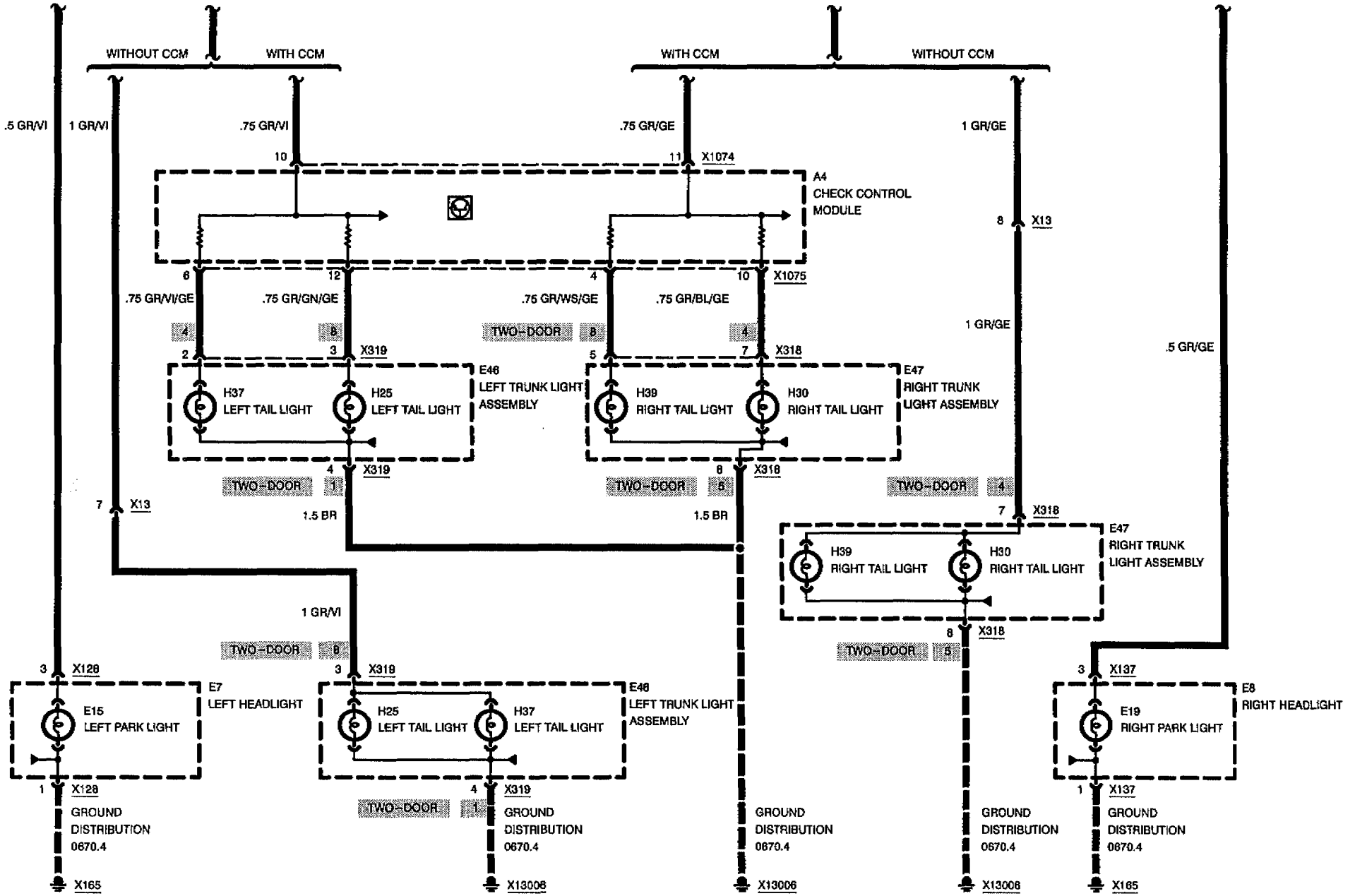

N12w
ANTI-THEFT
CONTROL
MODULE (ALPINE)
8 X13025
.5 BL/GN/GE
14 X14
.5 BL/GN/GE
.5 BL/GN
NOT USED
3
4
2
LSCH
BL
DWA
HOT AT ALL TIMES
F34
15A
P90
FRONT POWER
DISTRIBUTION BOX
8 X10018
FUSE DETAILS
0670.3
.5 WS/BL/GE
6
5 X65
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1 X65
GROUND
DISTRIBUTION
0670.4
X10010
.5 BR/SW/GE
1 X1D182
A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)
7 X13253
.35 BR/SW
LIGHT SWITCH
DETAILS
6300.0
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2X516
S18
HAZARD SWITCH
1) OFF
2) ON
2
1
2
1
3 X516
GROUND
DISTRIBUTION
0670.4
X10012
EARLY PRODUCTION
LATE PRODUCTION
.35 BR/SW
2 X386
S27
INERTIA SWITCH
1) NORMAL
STATE
2) SUFFICIENT
IMPACT
2
1
1 X388
GROUND
DISTRIBUTION
0670.4
X495
.35 BR/SW
24 X74
A12
SUPPLEMENTAL
RESTRAINT
SYSTEM CONTROL
MODULE

TURN/HAZARD LIGHTS

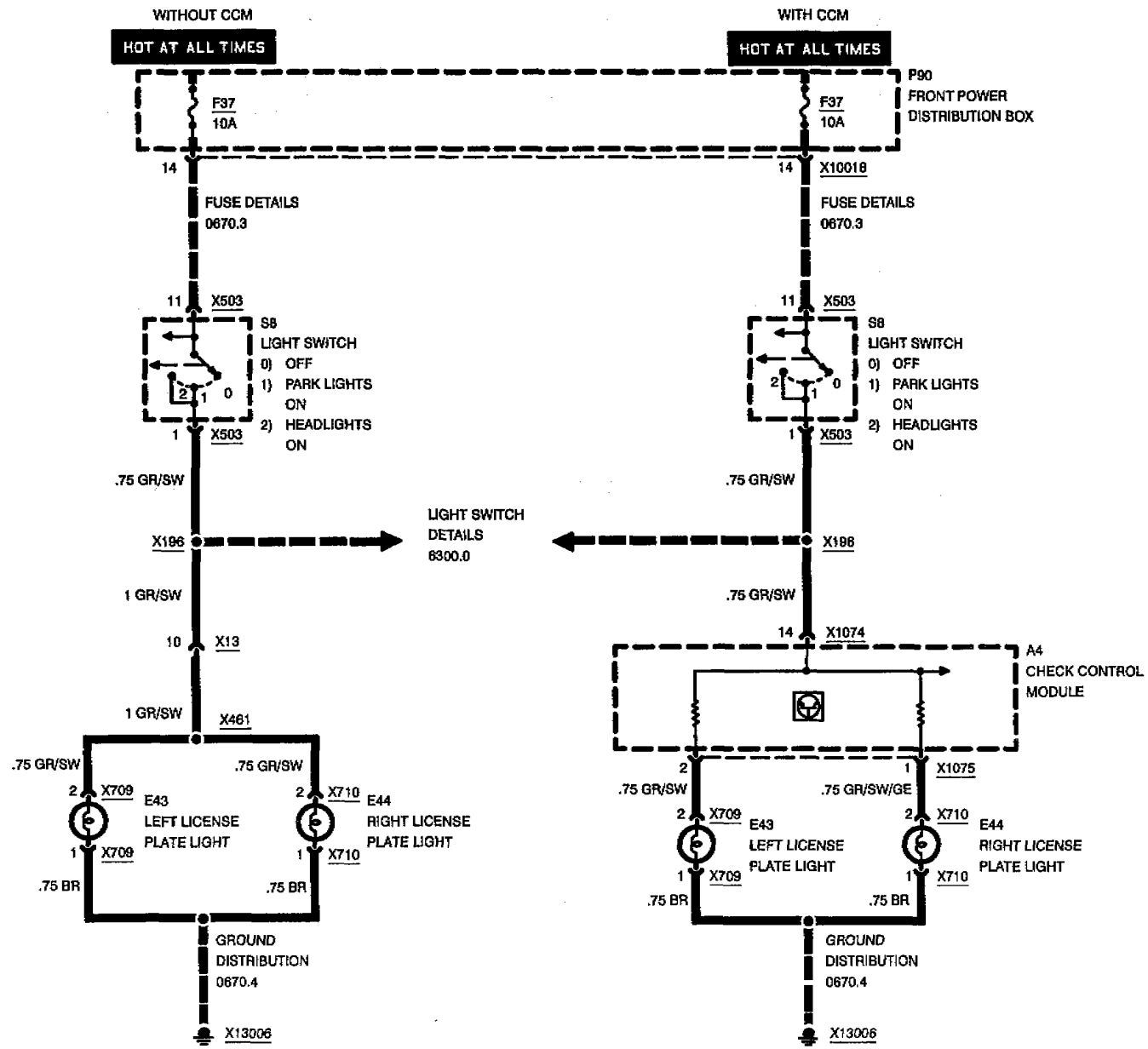


PARK/TAIL LIGHTS

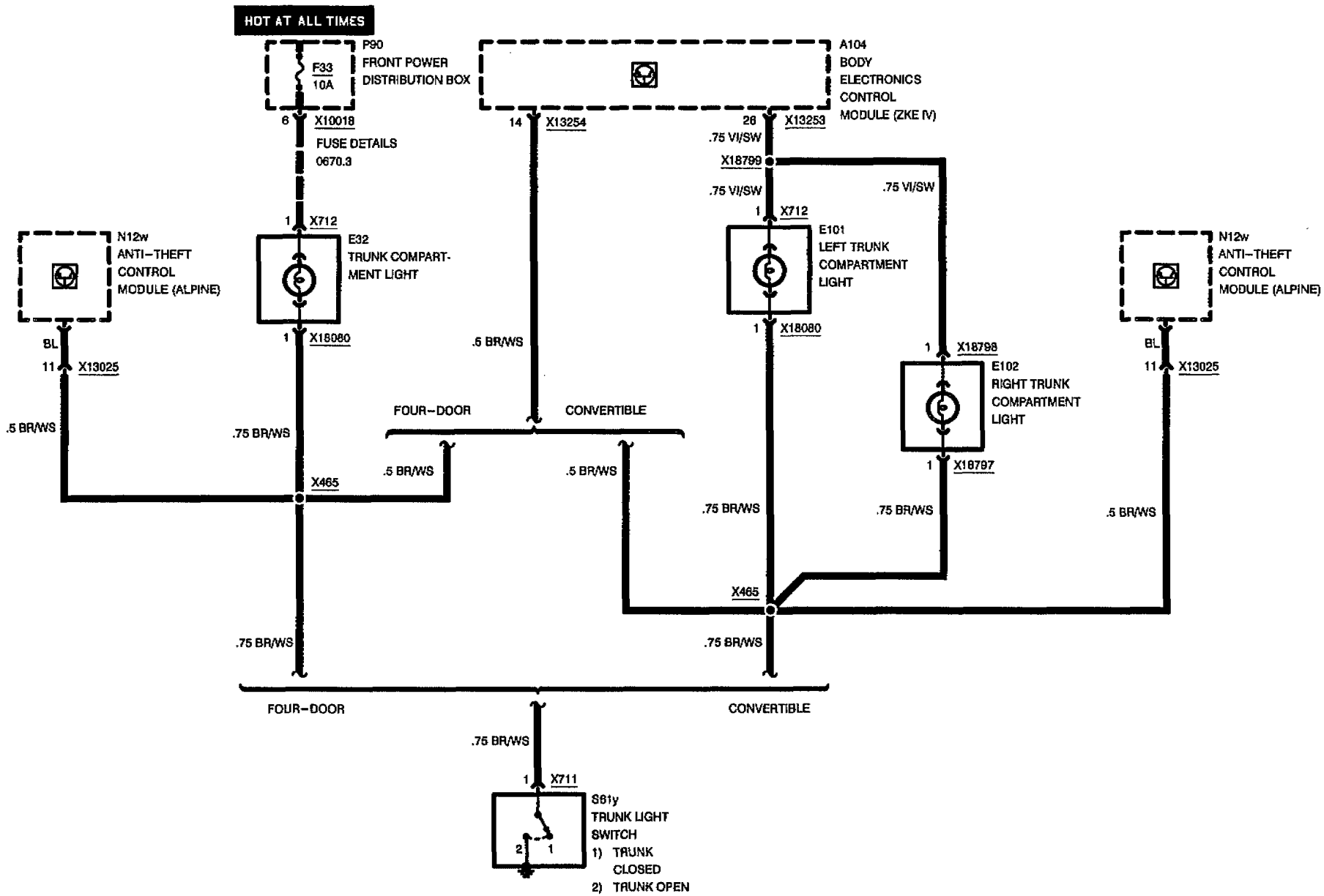



WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.5 GR/VI
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
10
11 X1074
A4
CHECK CONTROL
MODULE
8 X13
6
12
4
10 X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
1 GR/GE
.5 GR/GE
TWO-DOOR
4
5
6
2
3 X319
5
7 X318
E46
LEFT TRUNK LIGHT
ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT TAIL LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
4 X319
8 X318
TWO-DOOR
1
TWO-DOOR
5
TWO-DOOR
4
7 X13
1.5 BR
1.5 BR
7 X318
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
1 GR/VI
8 X318
TWO-DOOR
6
TWO-DOOR
5
3 X128
3 X319
3 X137
E7
LEFT HEADLIGHT
E15
LEFT PARK LIGHT
E46
LEFT TRUNK LIGHT
ASSEMBLY
H25
LEFT TAIL LIGHT
H37
LEFT TAIL LIGHT
E8
RIGHT HEADLIGHT
E19
RIGHT PARK LIGHT
1 X128
GROUND
DISTRIBUTION
0670.4
X165
TWO-DOOR
1
4 X319
GROUND
DISTRIBUTION
0670.4
X13006
GROUND
DISTRIBUTION
0670.4
X13006
GROUND
DISTRIBUTION
0670.4
X13006
1 X137
GROUND
DISTRIBUTION
0670.4
X165

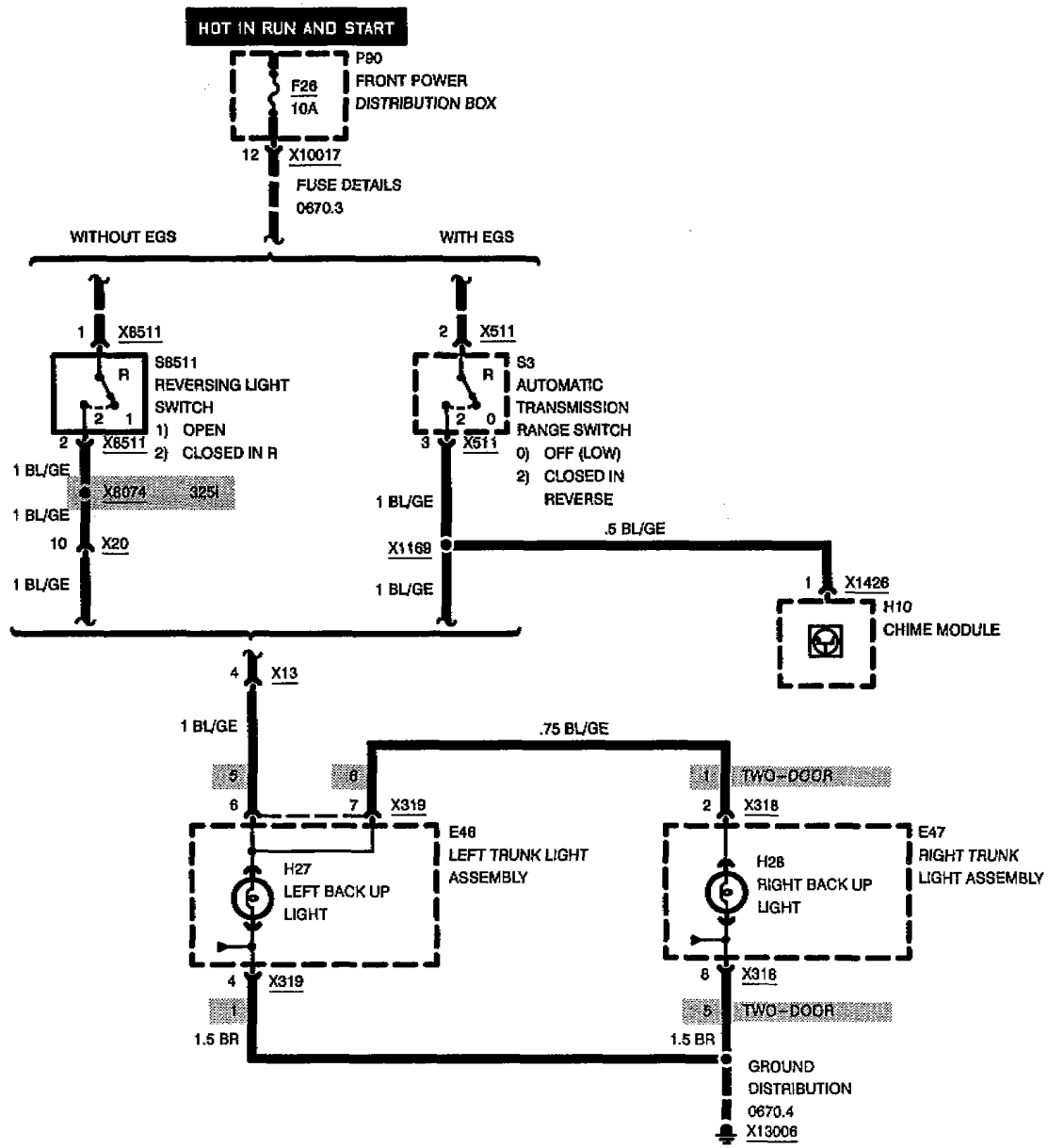
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



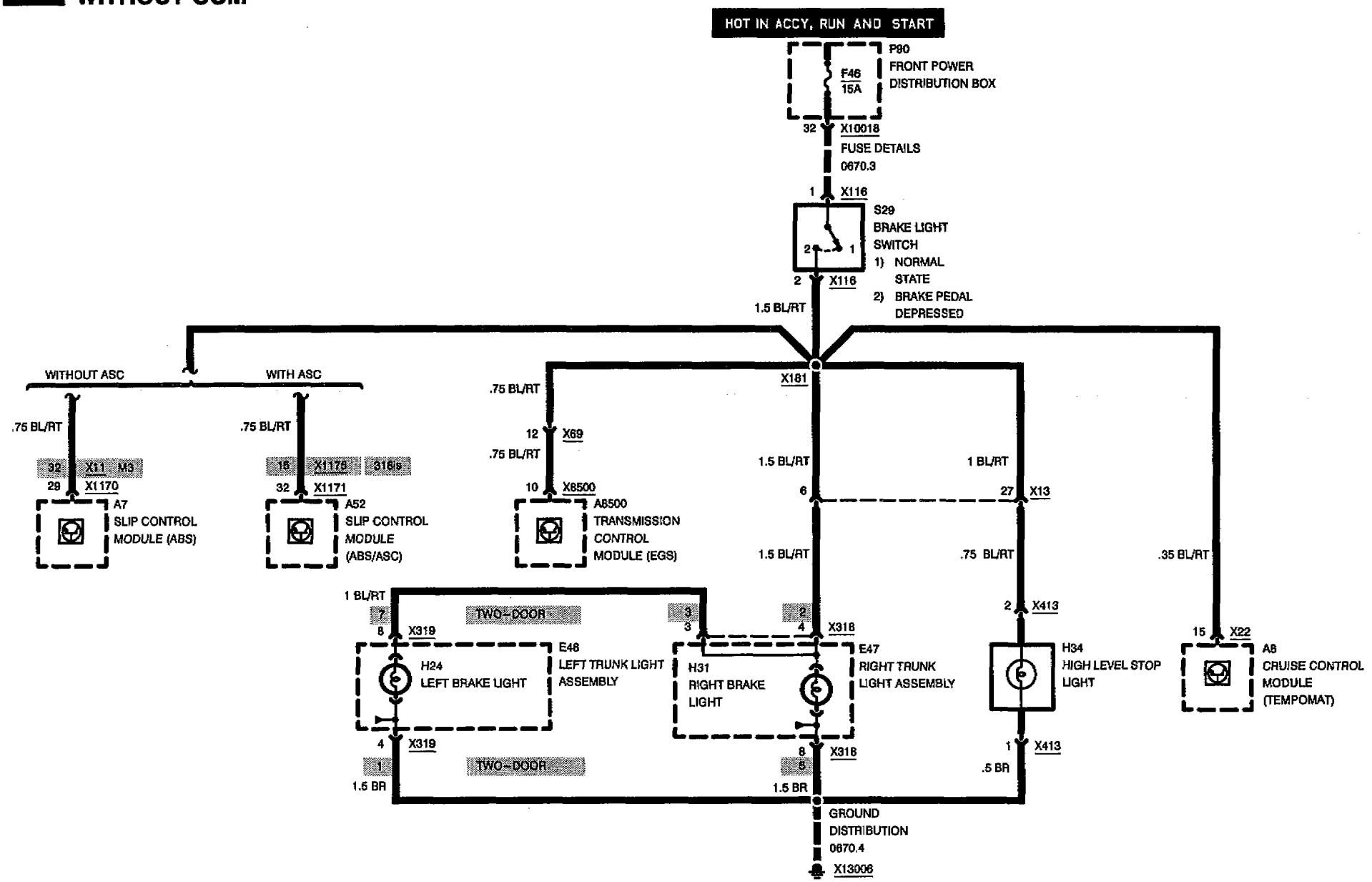
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



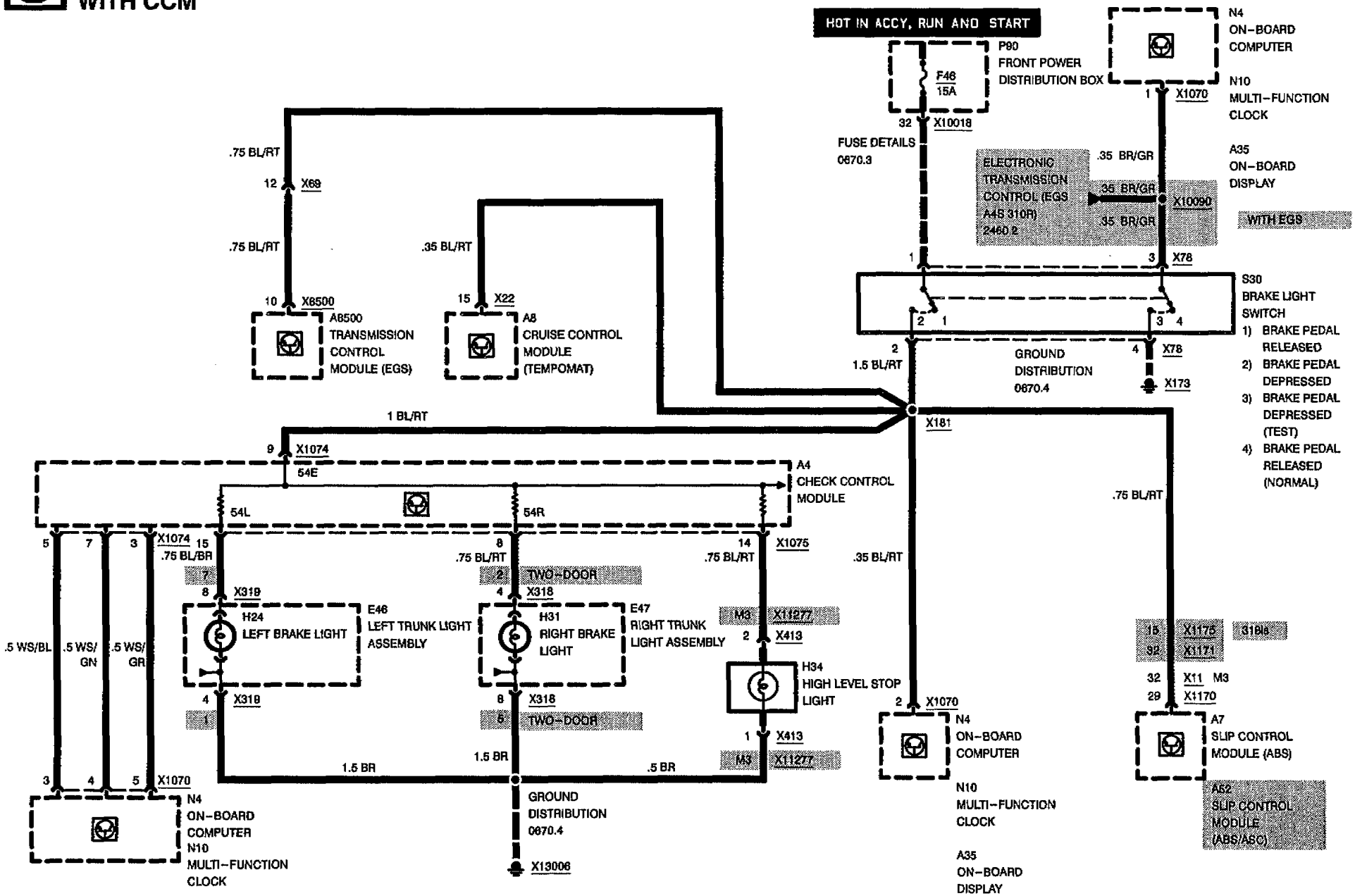
BACK UP LIGHTS

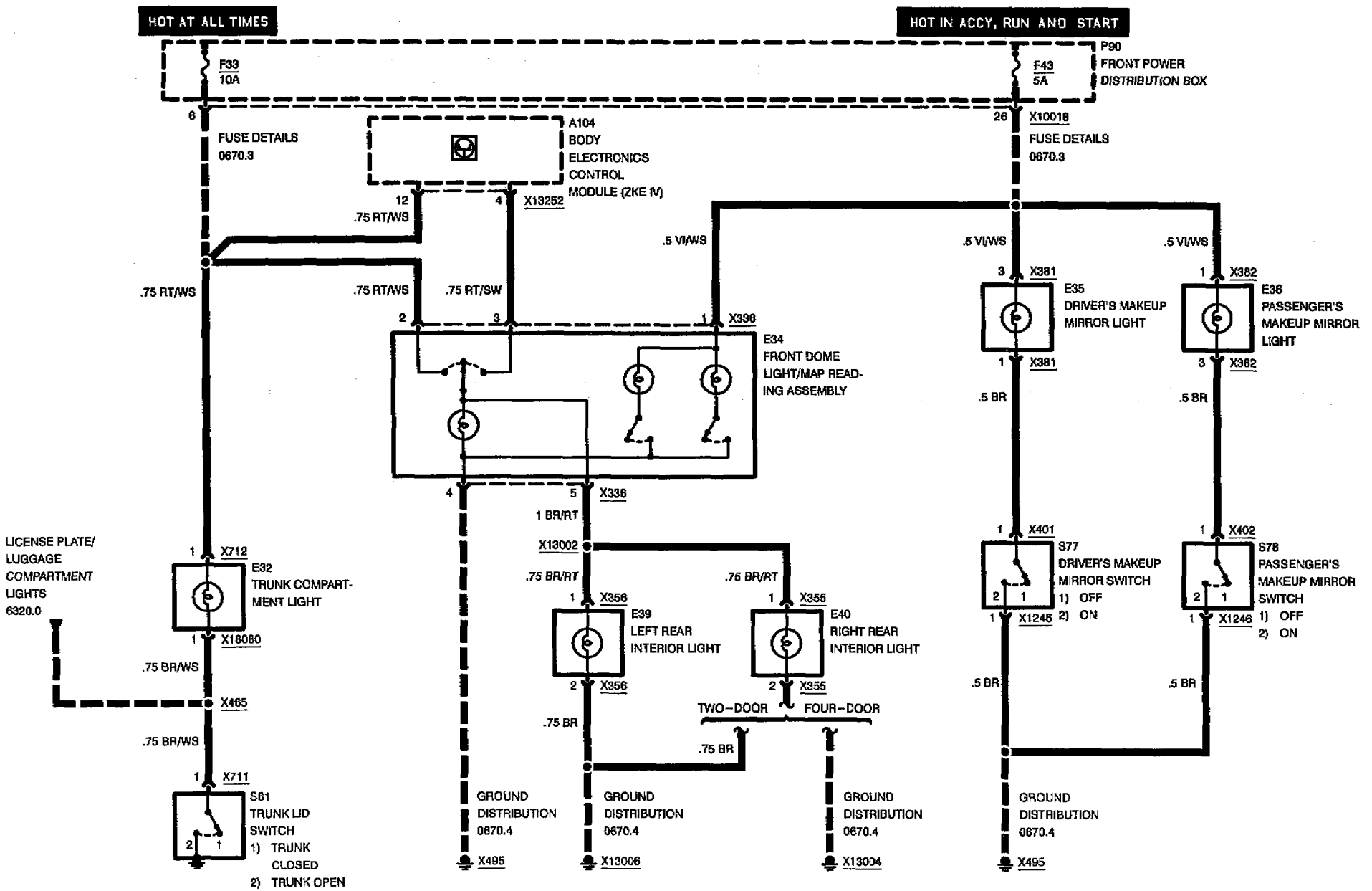


BRAKE LIGHTS
WITHOUT CCM

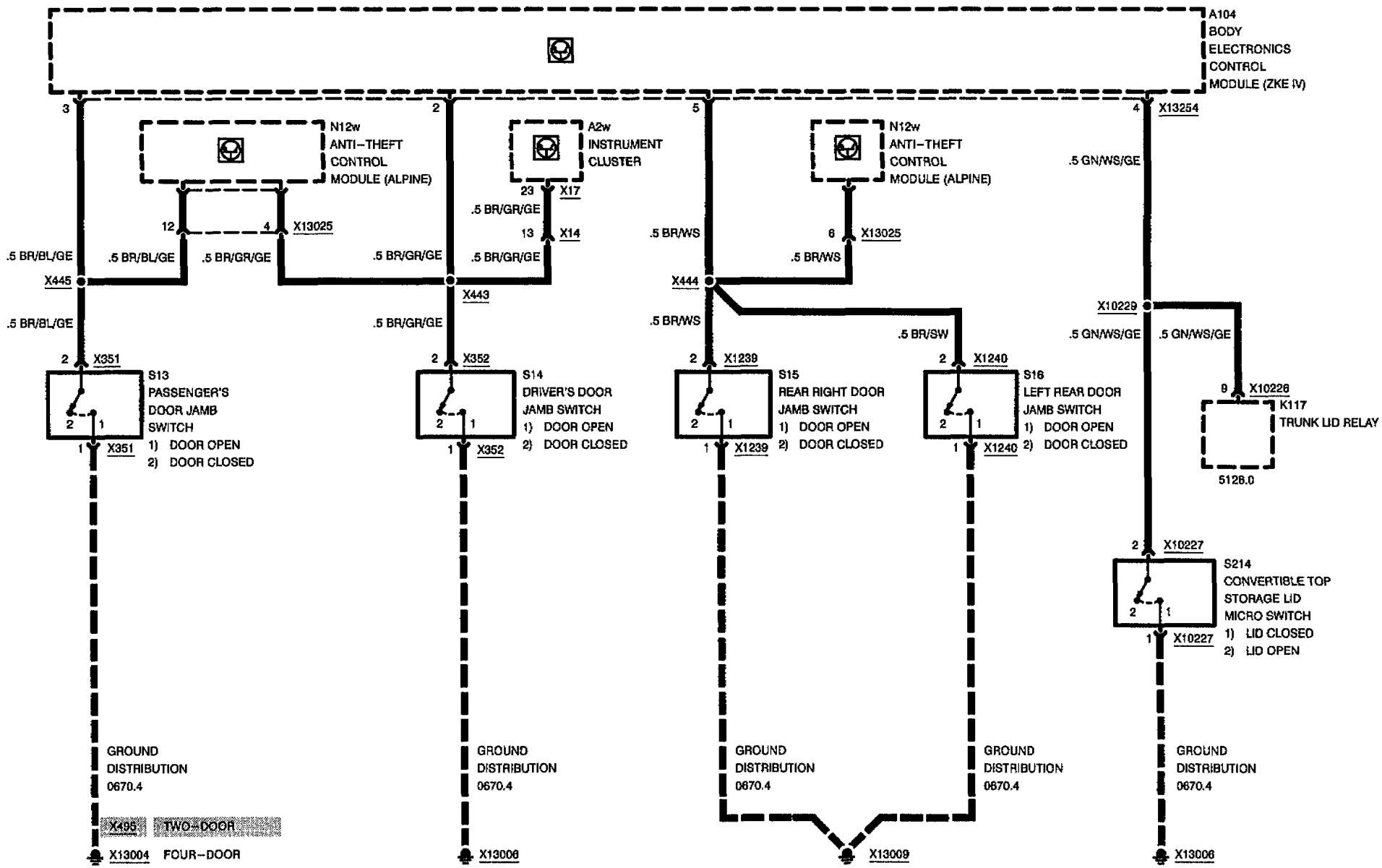


BRAKE LIGHTS
WITH CCM



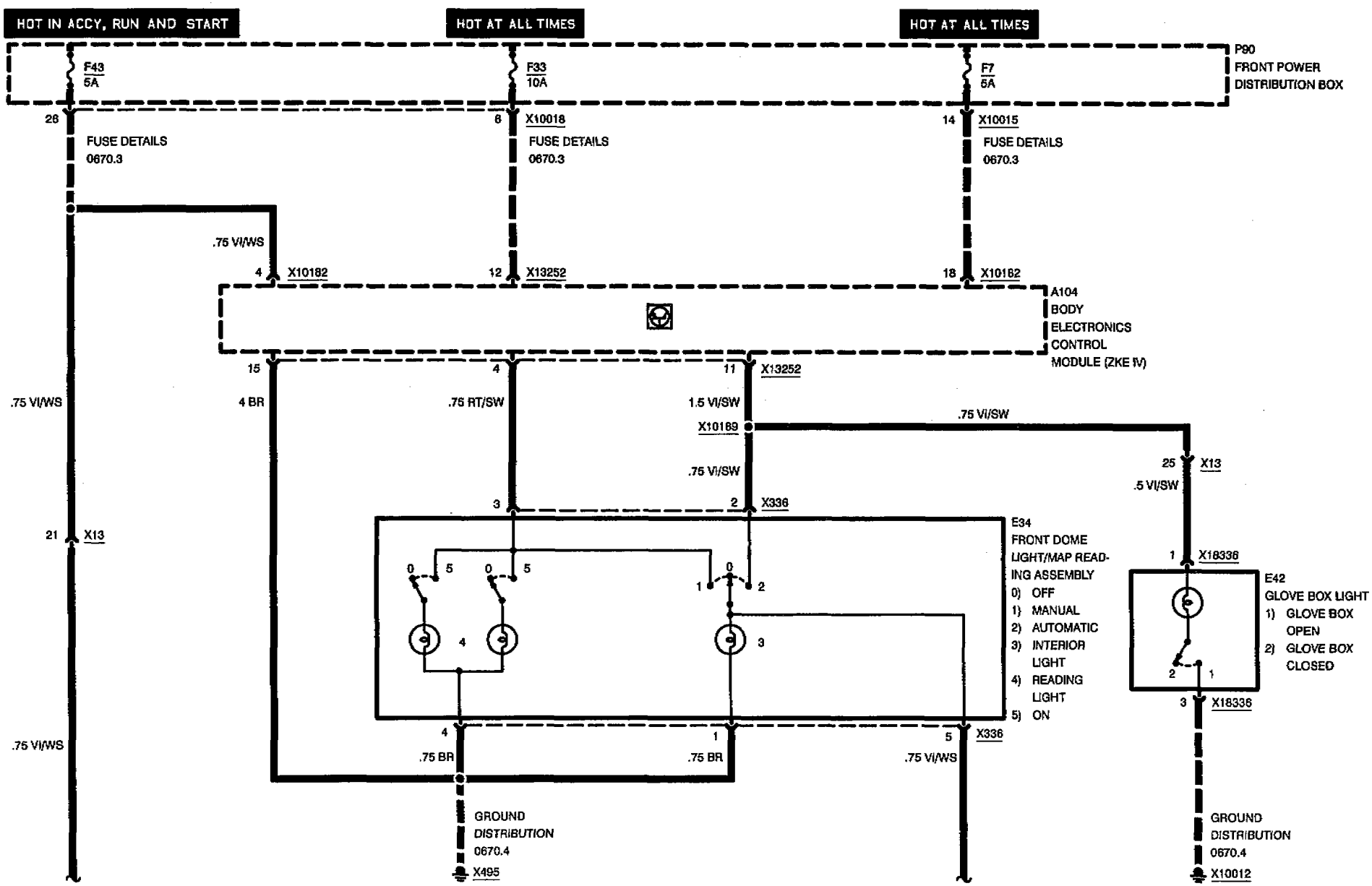

HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
F33 10A
F43 5A
P90 FRONT POWER DISTRIBUTION BOX
6
26
X10018
FUSE DETAILS 0670.3
FUSE DETAILS 0670.3
A104 BODY ELECTRONICS CONTROL MODULE (ZKE IV)
12 .75 RT/WS
4 X13252
.75 RT/WS
.75 RT/WS
.75 RT/SW
.5 VI/WS
.5 VI/WS
.5 VI/WS
2
3
1 X336
E34 FRONT DOME LIGHT/MAP READING ASSEMBLY
3 X381
E35 DRIVER'S MAKEUP MIRROR LIGHT
1 X382
E36 PASSENGER'S MAKEUP MIRROR LIGHT
1 X381
3 X382
.5 BR
.5 BR
4
5 X336
1 BR/RT
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS 6320.0
1 X712
E32 TRUNK COMPARTMENT LIGHT
1 X18060
.75 BR/WS
X465
.75 BR/WS
1 X711
S61 TRUNK LID SWITCH
1) TRUNK CLOSED
2) TRUNK OPEN
X13002
.75 BR/RT
.75 BR/RT
1 X356
E39 LEFT REAR INTERIOR LIGHT
2 X356
1 X355
E40 RIGHT REAR INTERIOR LIGHT
2 X355
TWO–DOOR
FOUR–DOOR
.75 BR
.75 BR
1 X401
S77 DRIVER'S MAKEUP MIRROR SWITCH
1) OFF
2) ON
1 X1245
1 X402
S78 PASSENGER'S MAKEUP MIRROR SWITCH
1) OFF
2) ON
1 X1246
.5 BR
.5 BR
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X495
X13006
X13004
X495

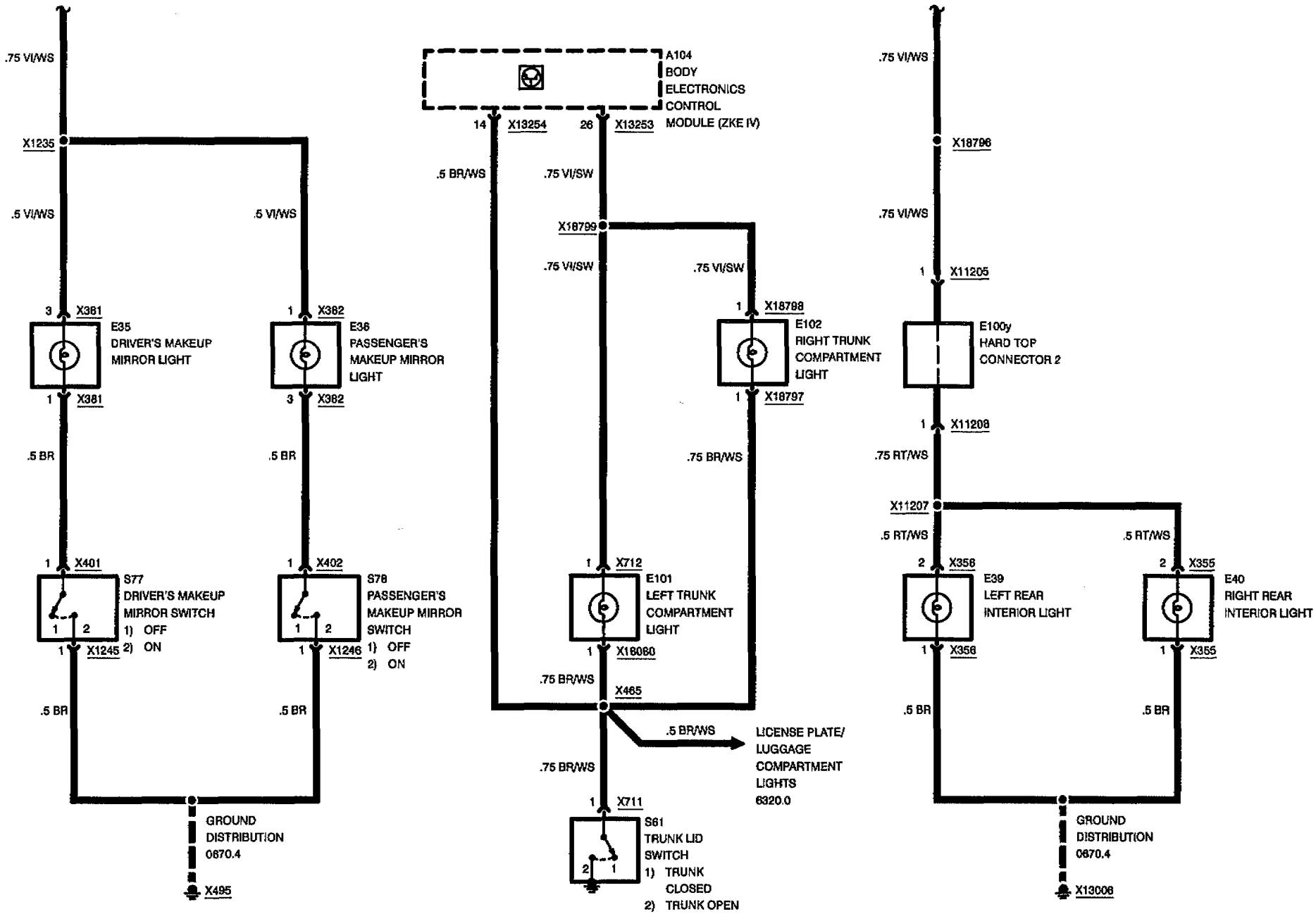
INTERIOR LIGHTS



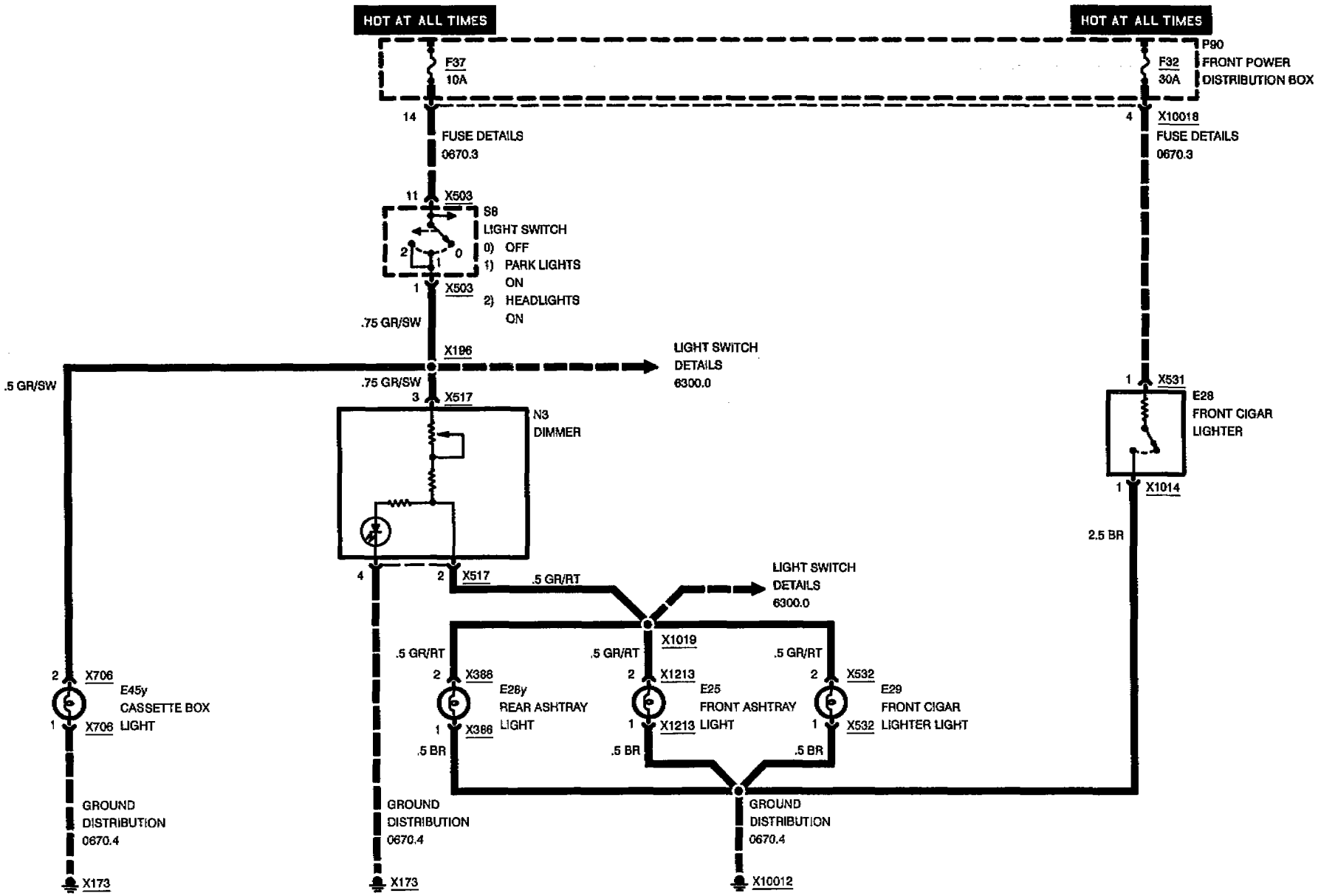
INTERIOR LIGHTS

CONVERTIBLE

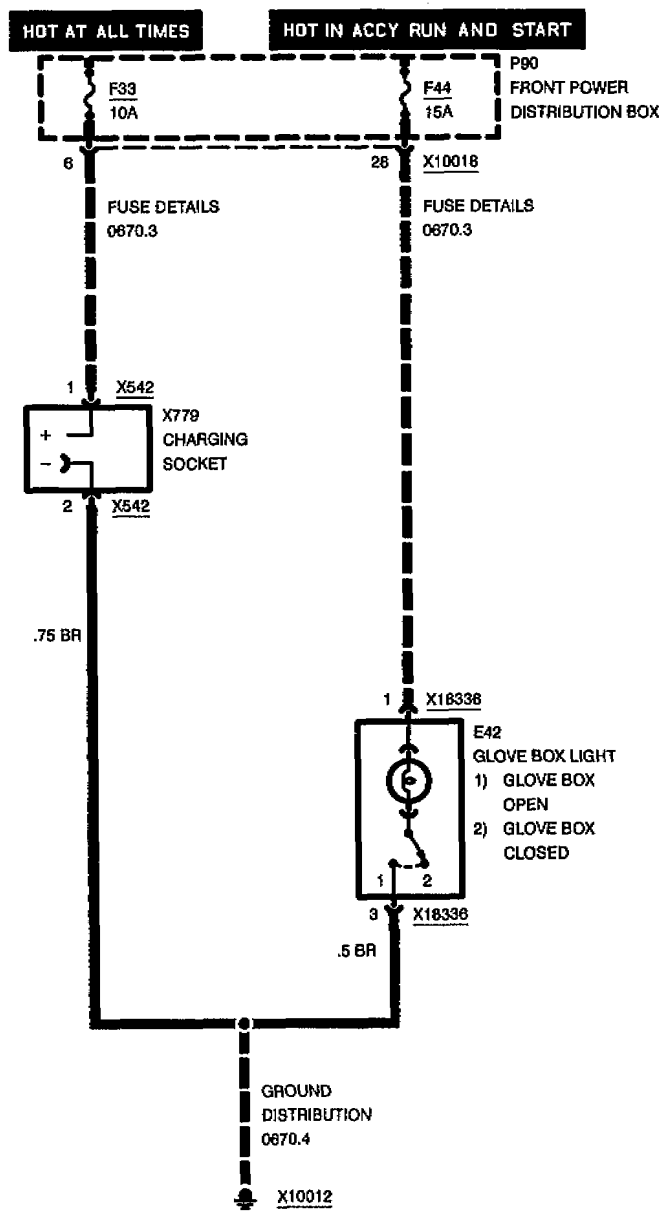



.75 VI/WS
X1235
.5 VI/WS
.5 VI/WS
3 X381
E35
DRIVER'S MAKEUP MIRROR LIGHT
1 X381
1 X382
E36
PASSENGER'S MAKEUP MIRROR LIGHT
3 X382
.5 BR
.5 BR
1 X401
S77
DRIVER'S MAKEUP MIRROR SWITCH
1) OFF
2) ON
1 X1245
1 X402
S78
PASSENGER'S MAKEUP MIRROR SWITCH
1) OFF
2) ON
1 X1246
.5 BR
.5 BR
GROUND DISTRIBUTION 0670.4
X495
A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)
14 X13254
26 X13253
.5 BR/WS
.75 VI/SW
X18799
.75 VI/SW
.75 VI/SW
1 X18798
E102
RIGHT TRUNK COMPARTMENT LIGHT
1 X18797
.75 BR/WS
1 X712
E101
LEFT TRUNK COMPARTMENT LIGHT
1 X16060
.75 BR/WS
X465
.5 BR/WS
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS
6320.0
.75 BR/WS
1 X711
S61
TRUNK LID SWITCH
1) TRUNK CLOSED
2) TRUNK OPEN
.75 VI/WS
X18796
.75 VI/WS
1 X11205
E100y
HARD TOP CONNECTOR 2
1 X11208
.75 RT/WS
X11207
.5 RT/WS
.5 RT/WS
2 X356
E39
LEFT REAR INTERIOR LIGHT
1 X356
2 X355
E40
RIGHT REAR INTERIOR LIGHT
1 X355
.5 BR
.5 BR
GROUND DISTRIBUTION 0670.4
X13006

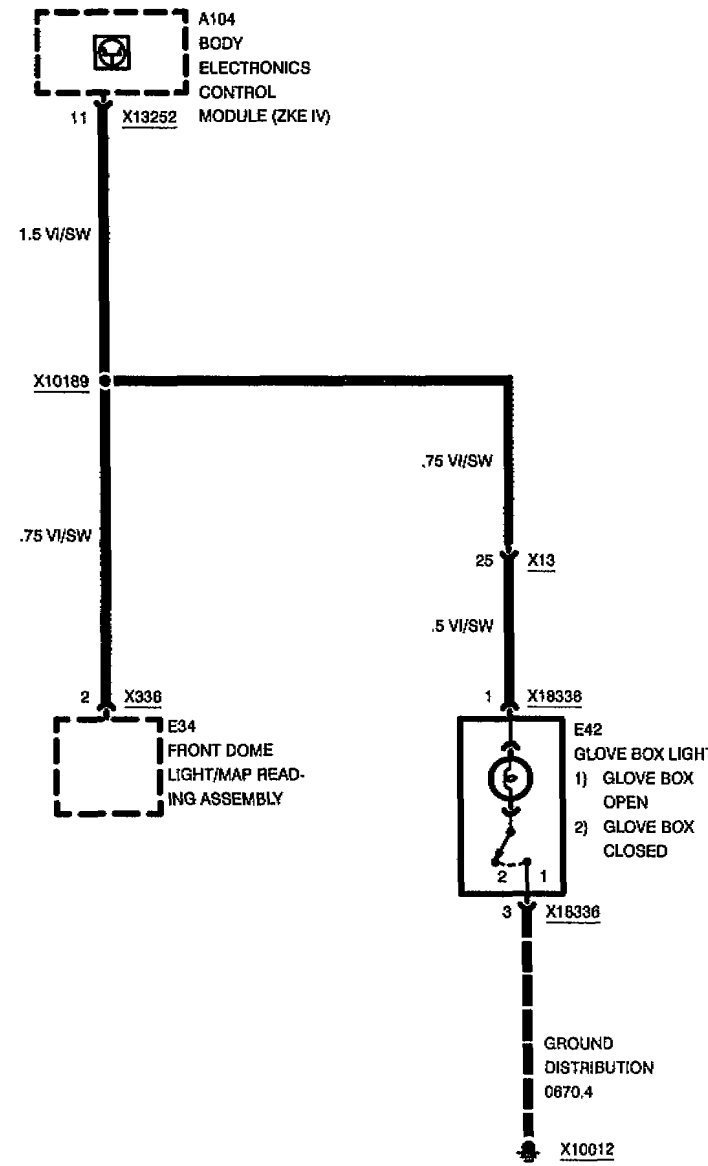
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER



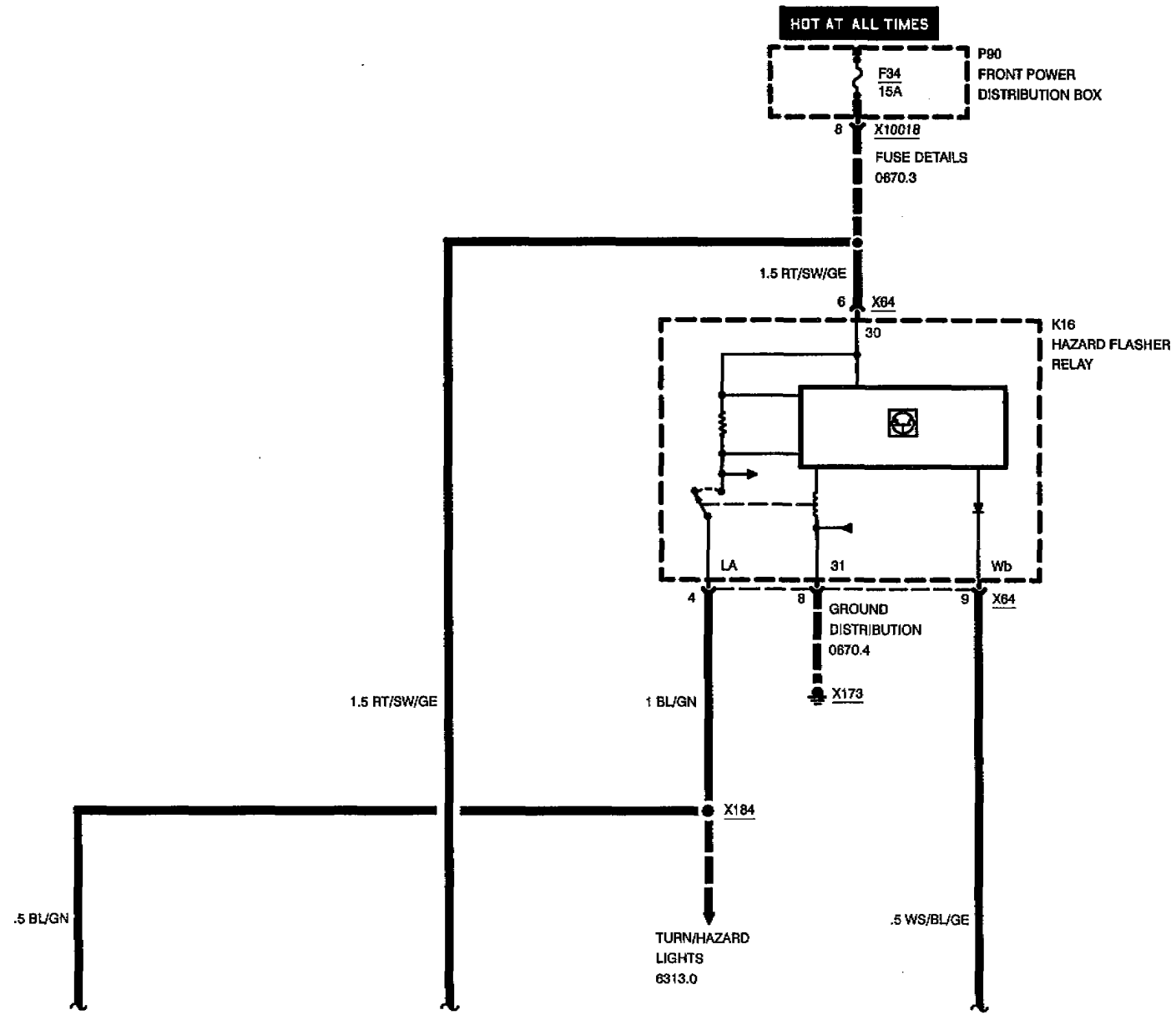
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

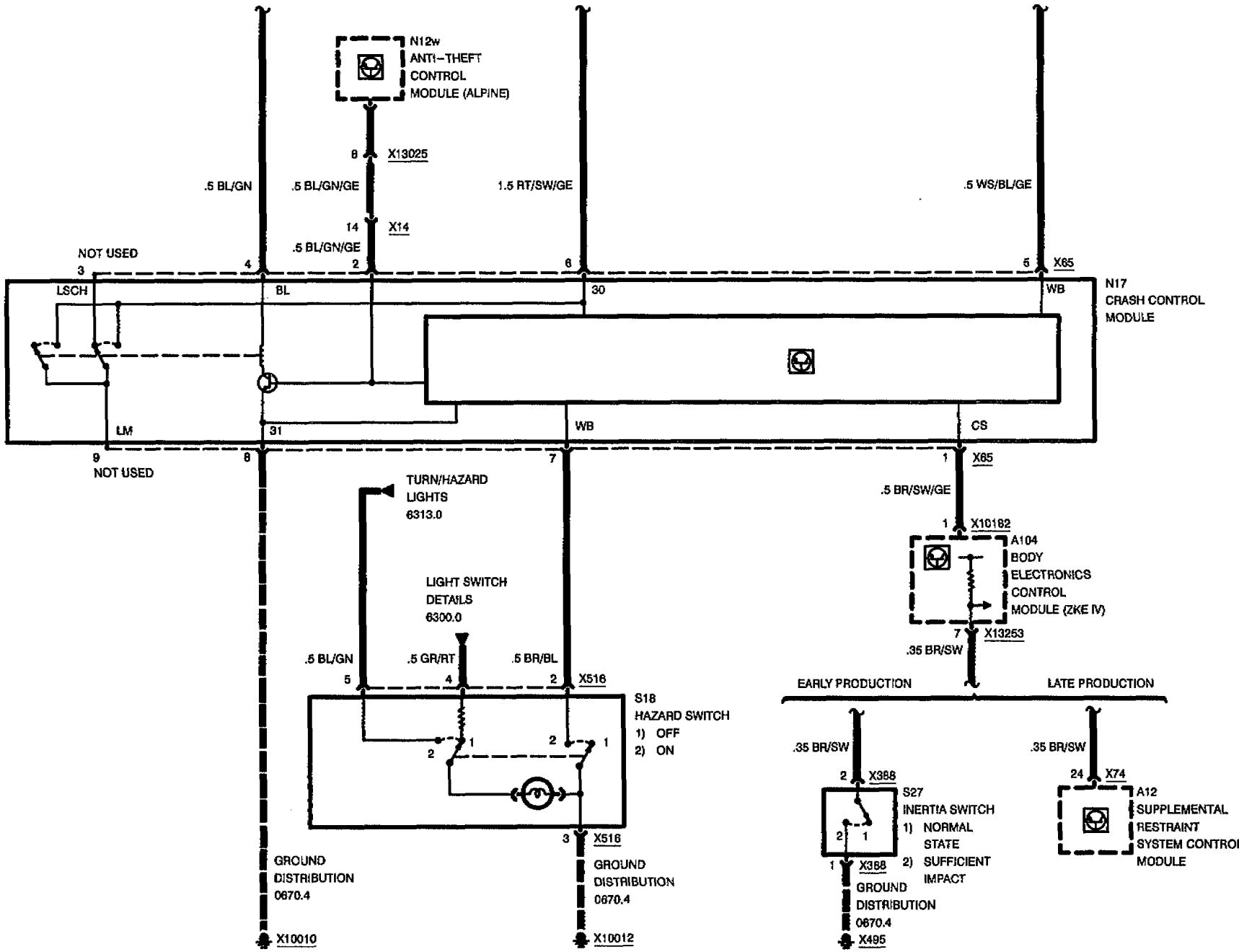


CONVERTIBLE

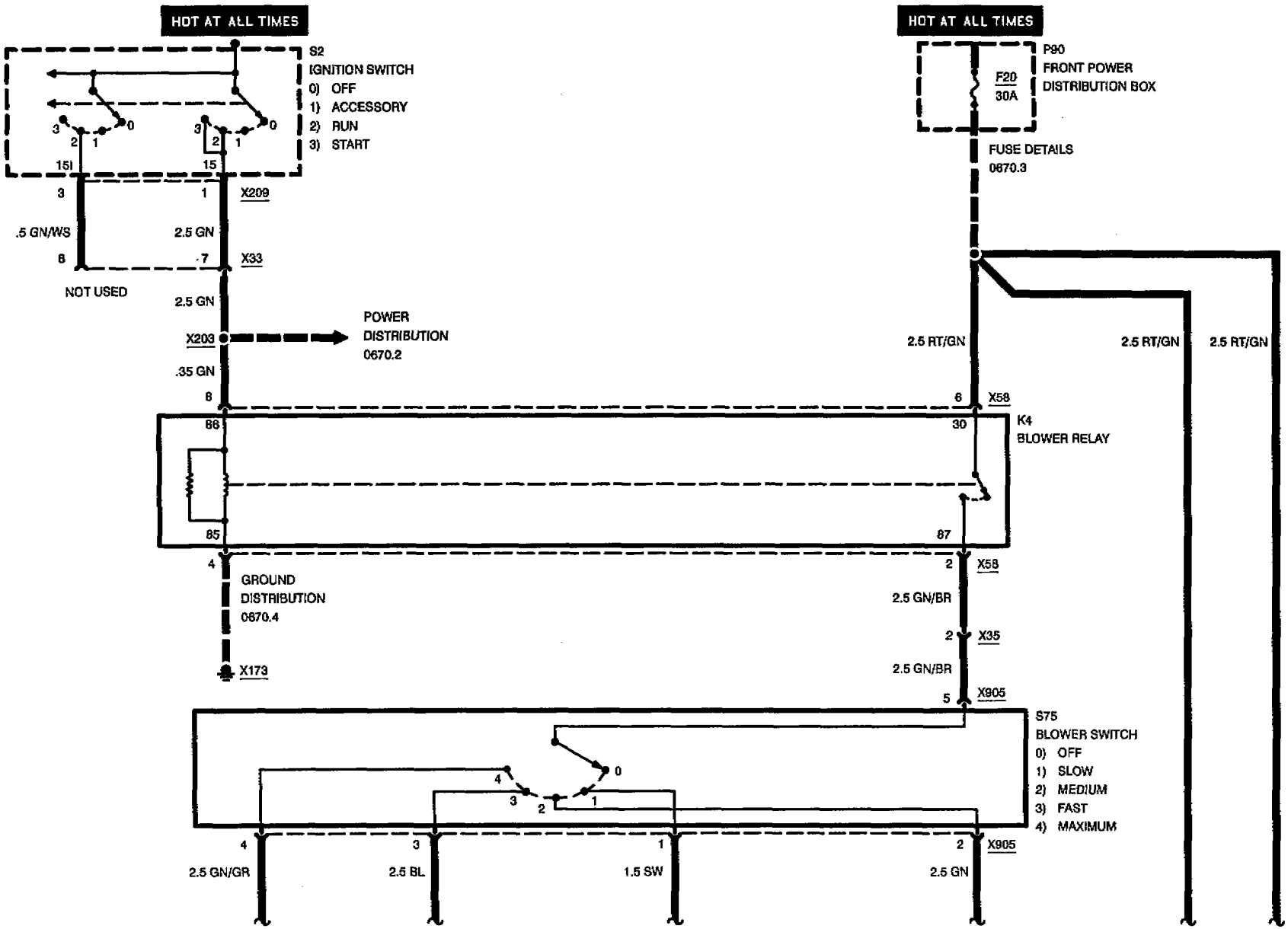


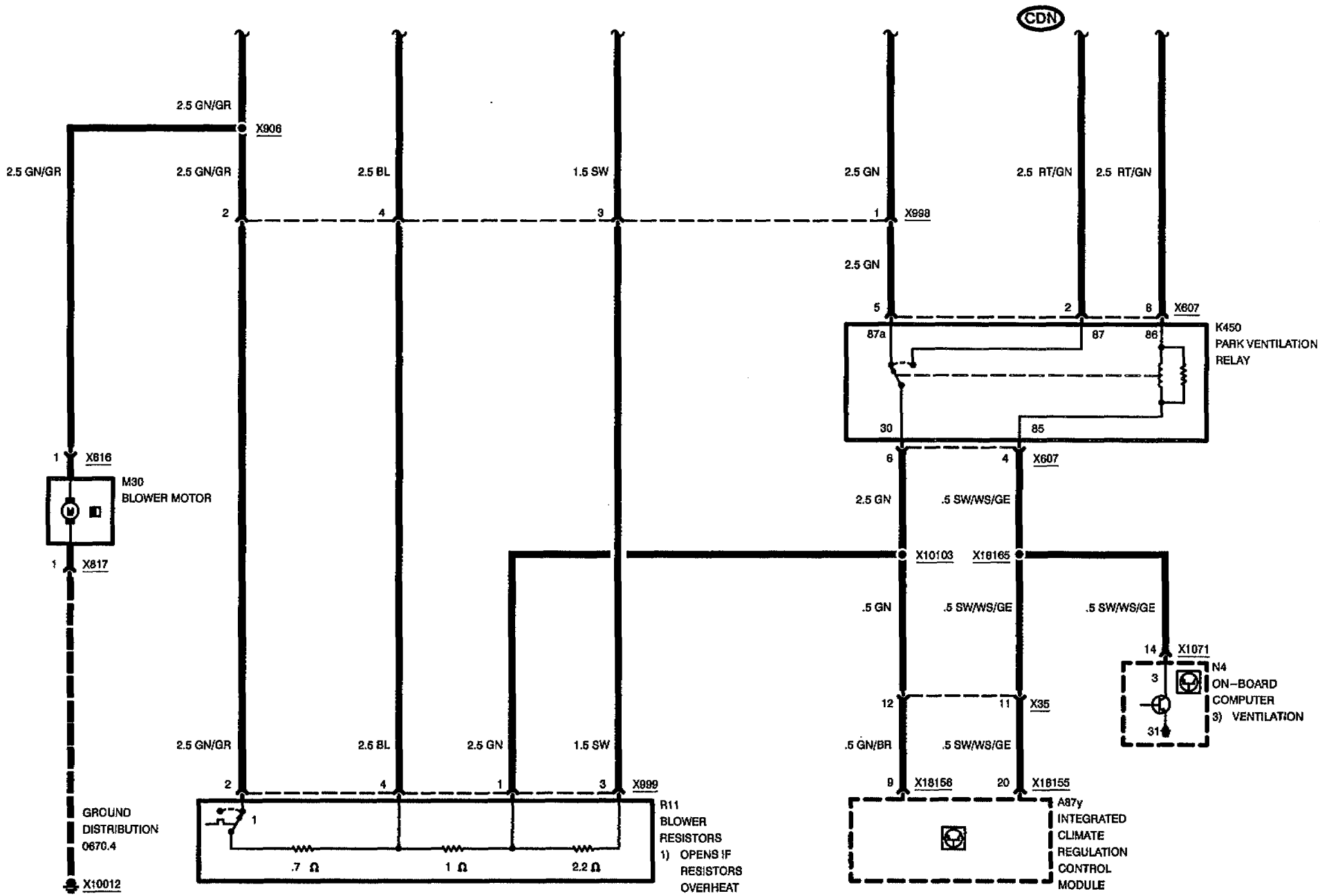
CRASH CONTROL MODULE



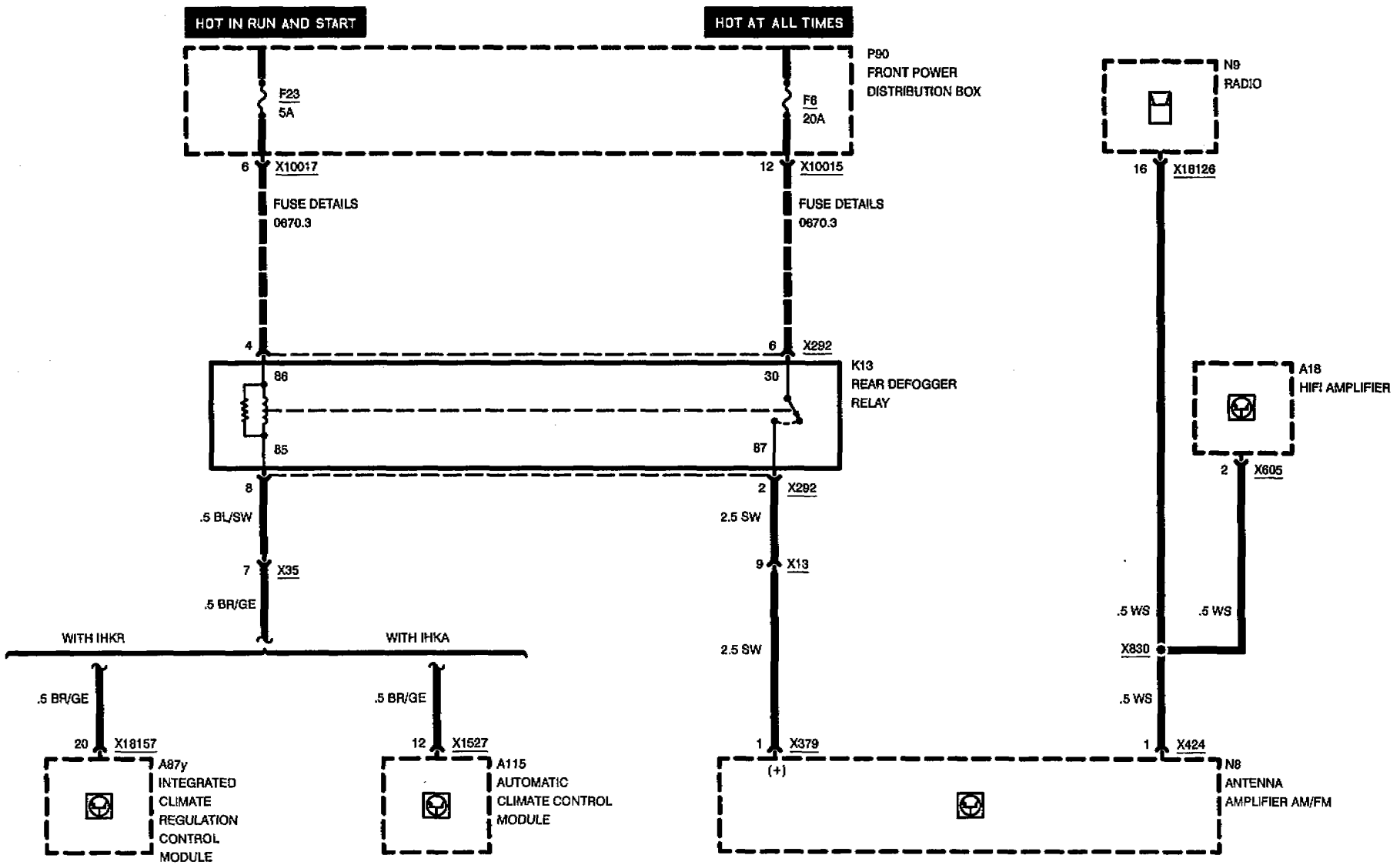

N12w
ANTI-THEFT
CONTROL
MODULE (ALPINE)
8 X13025
.5 BL/GN
.5 BL/GN/GE
1.5 RT/SW/GE
.5 WS/BL/GE
14 X14
.5 BL/GN/GE
NOT USED
3
4
2
6
5 X65
LSCH
BL
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1 X65
TURN/HAZARD
LIGHTS
6313.0
.5 BR/SW/GE
1 X10182
A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)
LIGHT SWITCH
DETAILS
6300.0
7 X13253
.35 BR/SW
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2 X516
EARLY PRODUCTION
LATE PRODUCTION
S18
HAZARD SWITCH
1) OFF
2) ON
.35 BR/SW
.35 BR/SW
2 X388
24 X74
S27
INERTIA SWITCH
1) NORMAL
STATE
2) SUFFICIENT
IMPACT
A12
SUPPLEMENTAL
RESTRAINT
SYSTEM CONTROL
MODULE
3 X516
1 X388
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X10010
X10012
X495

PARK VENTILATION WITH IHKR



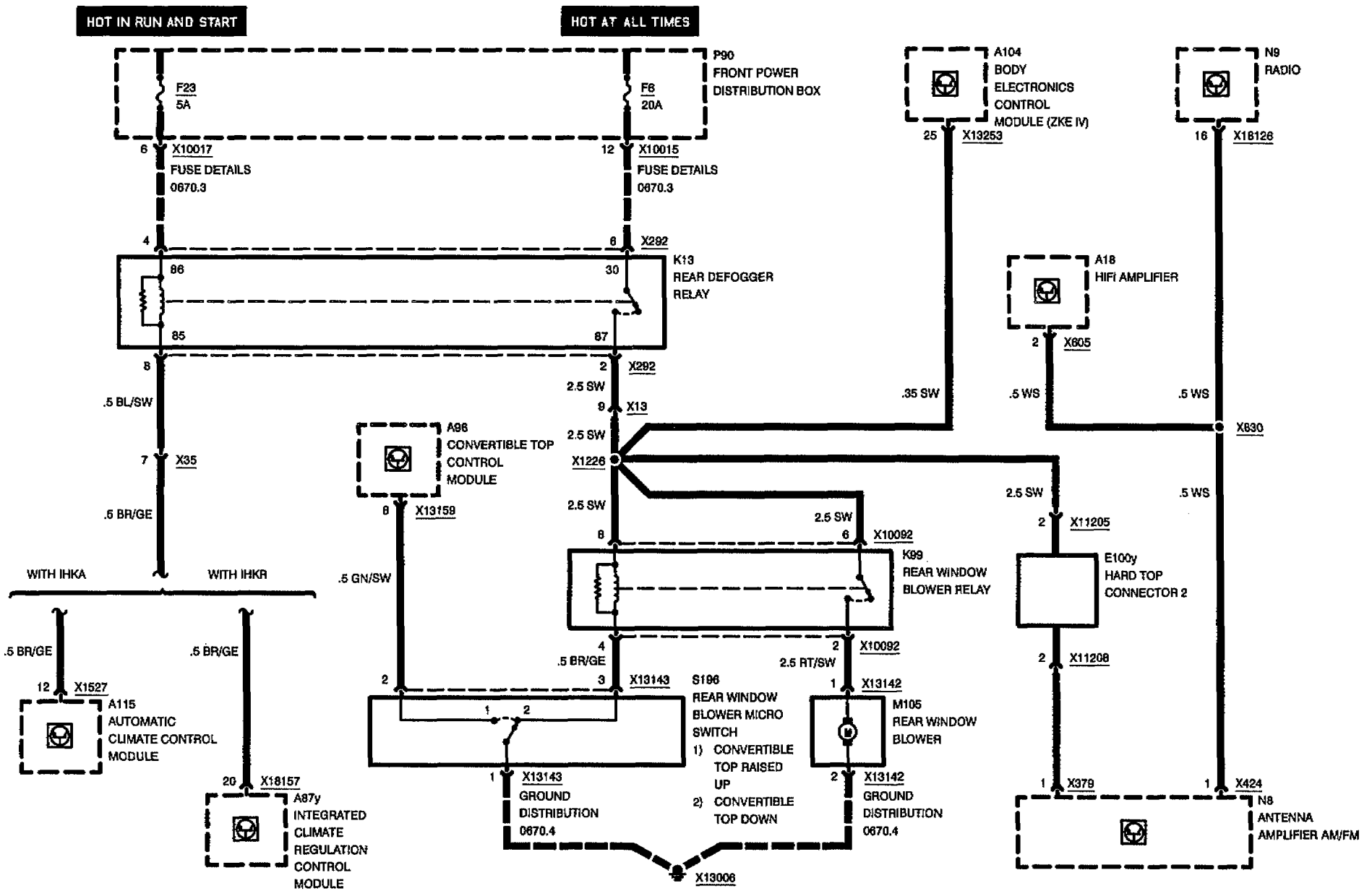

CDN
2.5 GN/GR
X906
2.5 GN/GR
2.5 GN/GR
2.5 BL
1.5 SW
2.5 GN
2.5 RT/GN
2.5 RT/GN
2
4
3
1
X998
2.5 GN
5
2
8
X607
87a
87
86
K450
PARK VENTILATION
RELAY
30
85
1
X616
M30
BLOWER MOTOR
1
X817
6
4
X607
2.5 GN
.5 SW/WS/GE
X10103
X18165
.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
14
X1071
N4
3
ON-BOARD
COMPUTER
3) VENTILATION
31
12
11
X35
2.5 GN/GR
2.5 BL
2.5 GN
1.5 SW
.5 GN/BR
.5 SW/WS/GE
2
4
1
3
X999
9
X18156
20
X18155
GROUND
DISTRIBUTION
0670.4
X10012
1
.7 Ω
1 Ω
2.2 Ω
R11
BLOWER
RESISTORS
1) OPENS IF
RESISTORS
OVERHEAT
A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL
MODULE

REAR WINDOW DEFOGGER/ANTENNA



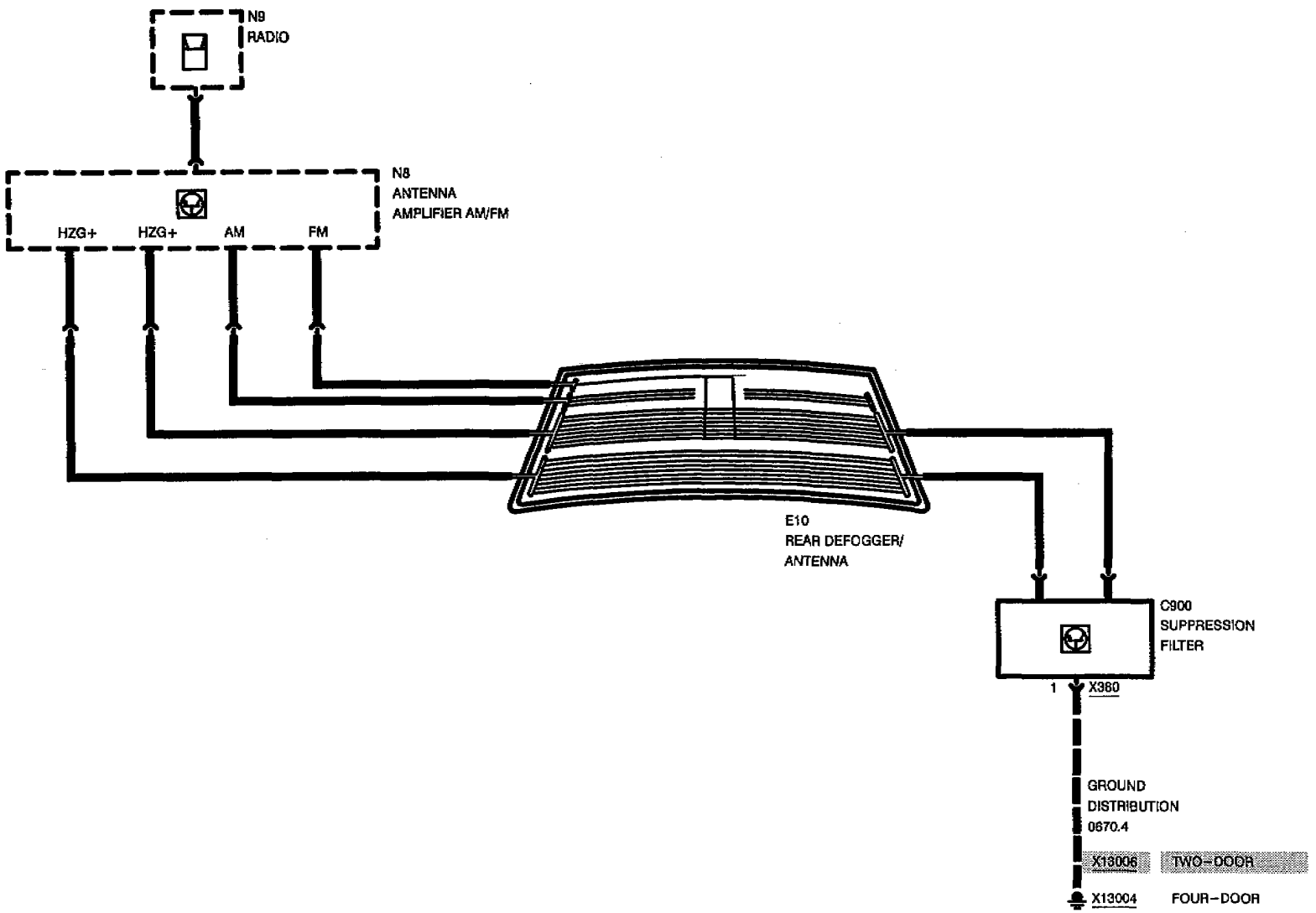
REAR WINDOW DEFOGGER/ANTENNA

CONVERTIBLE



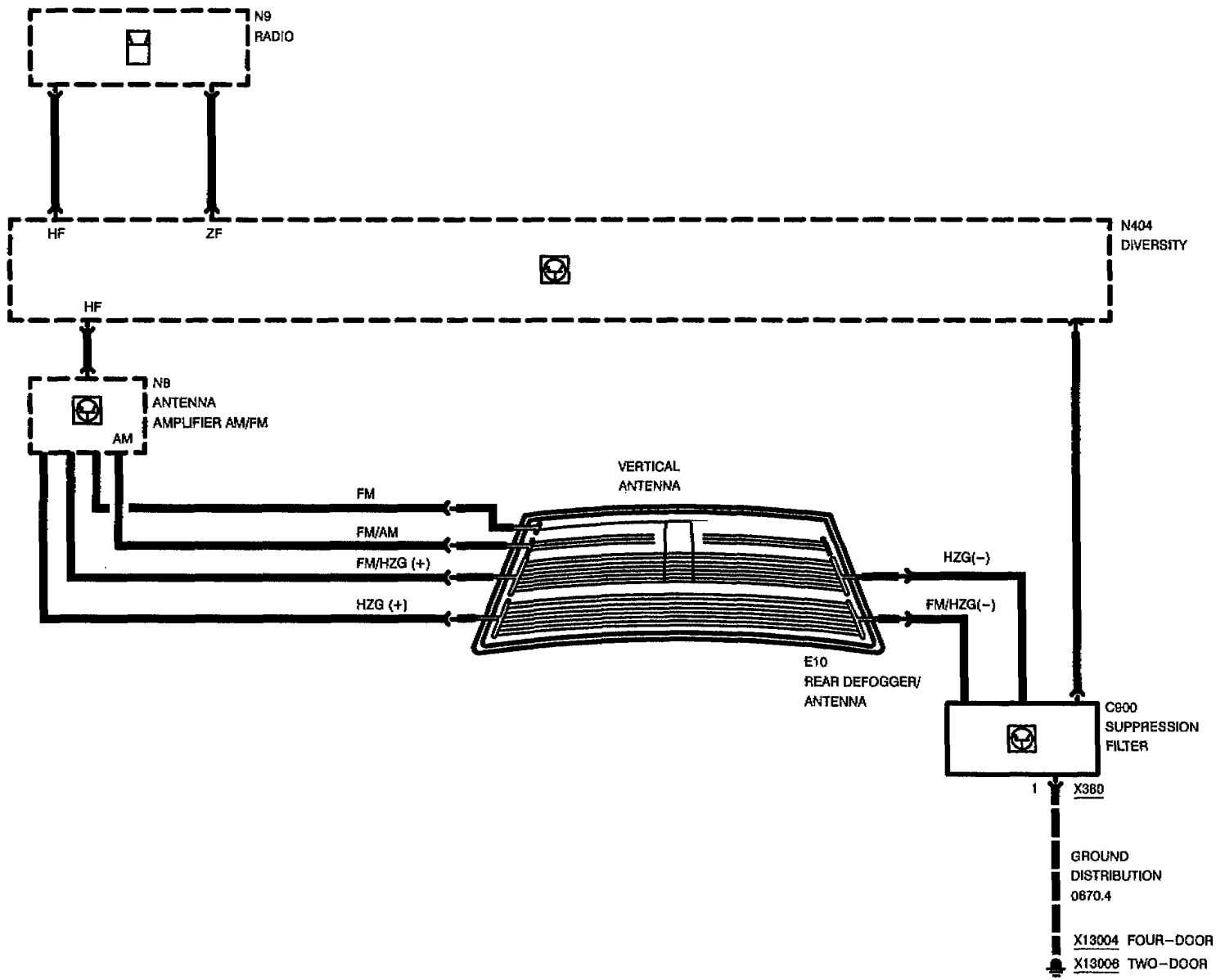
REAR WINDOW DEFOGGER/ANTENNA

REAR WINDOW ANTENNA

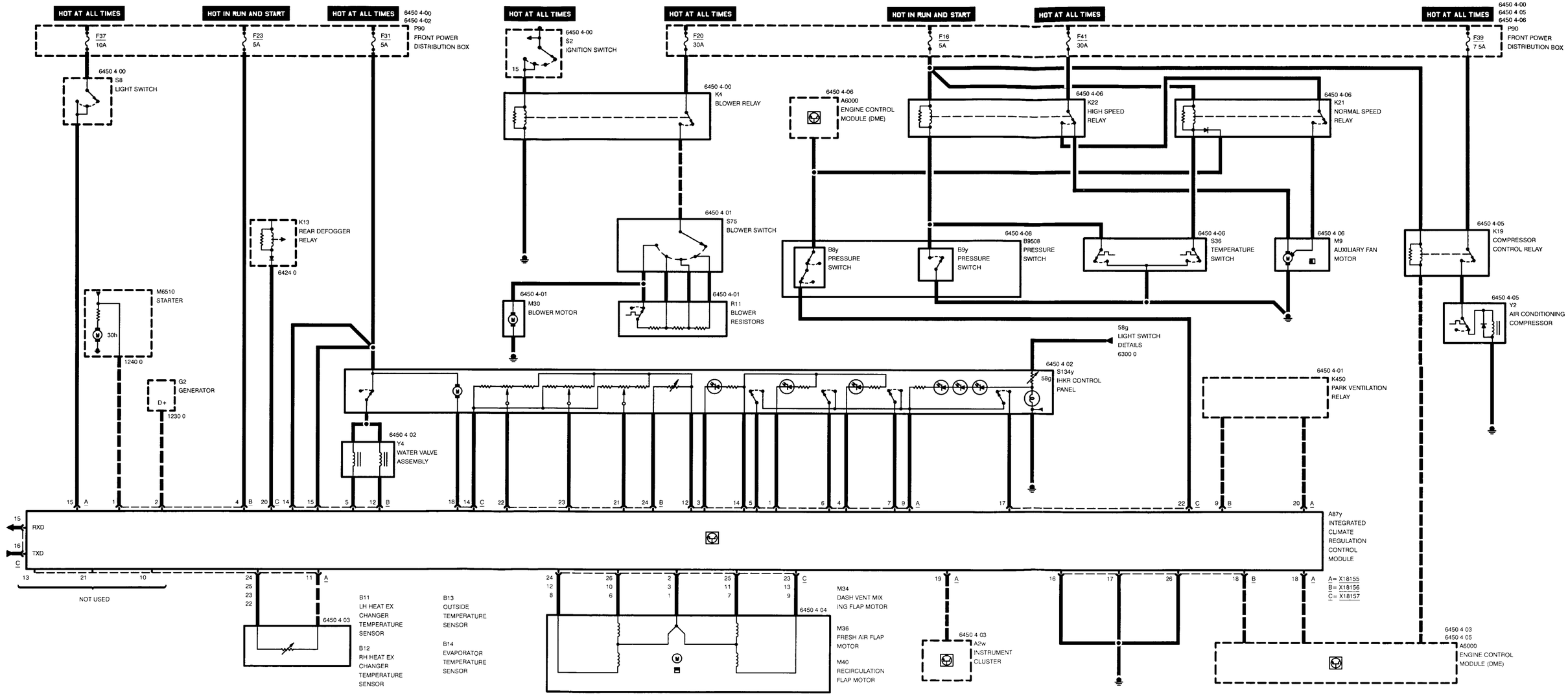


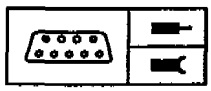
REAR WINDOW DEFOGGER/ANTENNA

3–ANTENNA–DIVERSITY



04/97 6450 4 1996
04/97 6450 4 1996





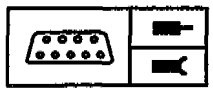
Pin Assignments

A = X18155	26 Pins, white
B = X18156	26 Pins, black
C = X18157	26 Pins, blue

X18155

Pin	Type	Description/Function	Connection
1	A	Function light, air recirculation	IHKR control panel
2		Not used	
3	A	Function light, rear window defogger	IHKR control panel
4	A	Function light, air conditioning	IHKR control panel
5	E	Rear window defogger switch	IHKR control panel
6	E	Air circulation switch	IHKR control panel
7	E	Air conditioning switch	IHKR control panel
8		Not used	
9	A	Ground for rear window defogger switch, air recirculation switch, air conditioning switch, electric flaps switch, and function lights	IHKR control panel
10		Not used	
11	A	Ground for temperature sensors	Various temperature sensors
12	A	Ground for rotary switches and interior temperature sensor	IHKR control panel
13		Not used	
14	(USA) E	Voltage supply for function lights	IHKR control panel
15	E	Terminal 58g	Light switch
16		Not used	
17		Not used	
18	E	Crankshaft position/RPM speed signal TD	Engine control module (DME)
19	A	Vehicle speed	Instrument cluster
20	E	Independent ventilation	Park heating/ventilation relay
21		Not used	
22	A/E	Evaporator temperature	Evaporator temperature sensor

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
23	A/E	Outside temperature	Outside temperature sensor
24	A/E	Heater temperature, left	Left heat exchanger temperature sensor
25	A/E	Heater temperature, right	Right heat exchanger temperature sensor
26		Not used	

X18156

Pin	Type	Description/Function	Connection
1	E	Terminal 30h	Starter, terminal 30h
2	E	Terminal 61	Generator
3		Not used	
4	E	Voltage supply, terminal 15	Front power distribution box, fuse 23
5	A	Left water valve activation	Water valve assembly
6		Not used	
7		Not used	
8		Not used	
9		Terminal 15 (independent ventilation only)	Park heating/ventilation relay
10		Not used	
11		Not used	
12	A	Right water valve activation	Water valve assembly
13		Not used	
14	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
15	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
16	M	Ground for load circuit	Ground point
17	M	Ground for load circuit	Ground point
18	A	Engine control module (DME) activation (anti-stall)	Engine control module (DME)
19		Not used	
20		Not used	
21	E	Nominal temperature valve, right	IHKR control panel
22	E	Nominal temperature valve, left	IHKR control panel
23	E	Nominal air flow valve	IHKR control panel

E = Input, A = Output, M = Ground

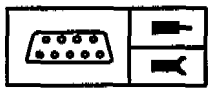
Pin Assignments

Pin	Type	Description/Function	Connection
24	A/E	Interior temperature sensor	IHKR control panel
25		Not used	
26	M	Ground for electronics	Ground point

X18157

Pin	Type	Description/Function	Connection
1	A	Voltage supply for recirculation flap motor	Recirculation flap motor
2	A	Voltage supply for dash vent mixing flap motor	Dash vent mixing flap motor
3	A	Voltage supply for fresh air flap motor	Fresh air flap motor
4		Not used	
5		Not used	
6	A	Recirculation flap motor activation	Recirculation flap motor
7	A	Recirculation flap motor activation	Recirculation flap motor
8	A	Recirculation flap motor activation	Recirculation flap motor
9	A	Recirculation flap motor activation	Recirculation flap motor
10	A	Fresh air flap motor activation	Fresh air flap motor
11	A	Fresh air flap motor activation	Fresh air flap motor
12	A	Fresh air flap motor activation	Fresh air flap motor
13	A	Fresh air flap motor activation	Fresh air flap motor
14	A	Voltage supply for rotary switches	IHKR control panel
15	A	RxD diagnostic data line	Data link connector
16	E/A	TxD diagnostic data line	Data link connector
17	E	Ventilation flap switch	IHKR control panel
18	A	Interior sensor blower activation	IHKR control panel
19		Not used	
20	A	Rear window defogger activation	Rear defogger relay, terminal 86b
21		Not used	
22	A	A/C compressor activation	Pressure switch
23	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
24	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground



Pin Assignments

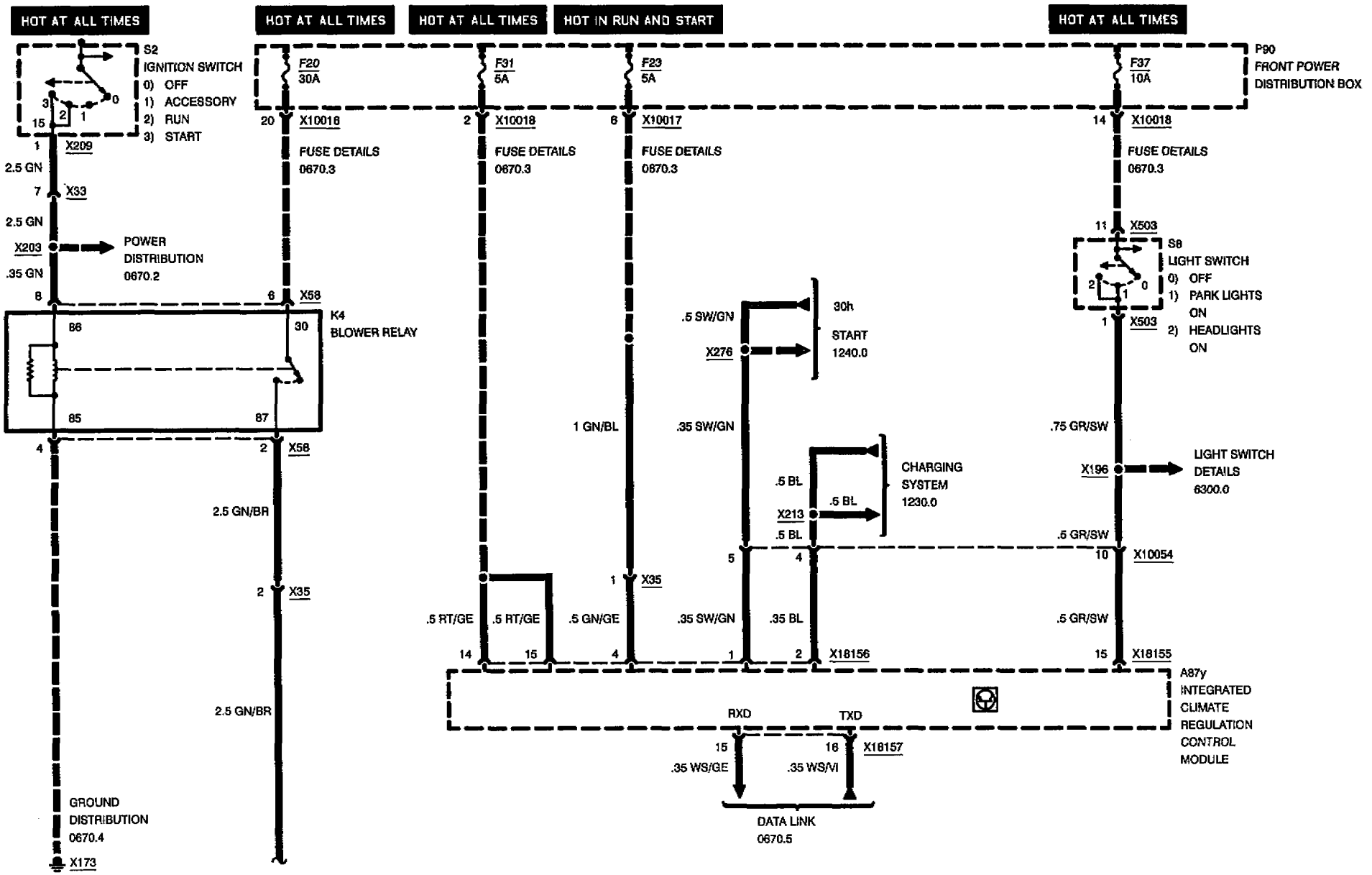
Pin	Type	Description/Function	Connection
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

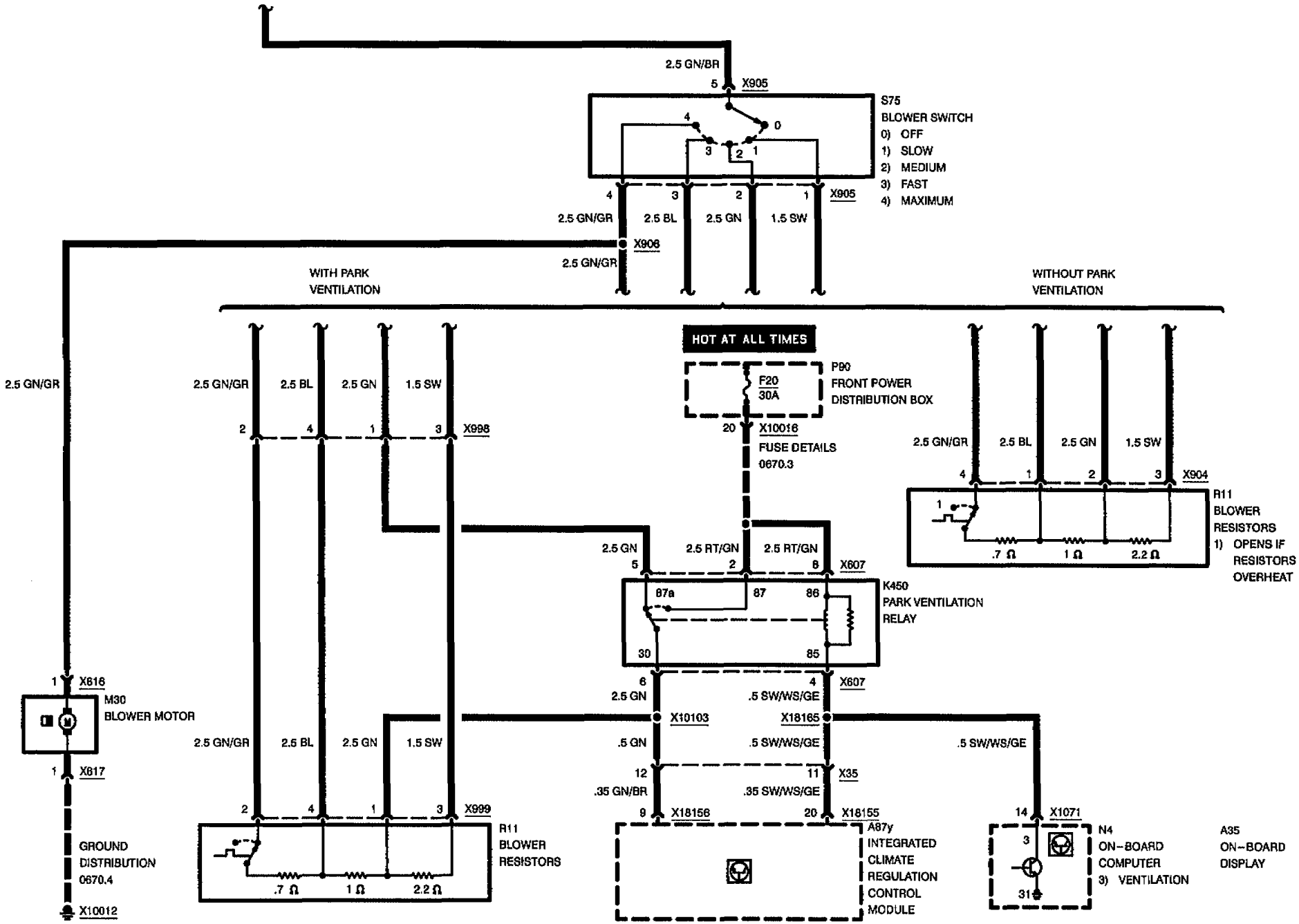
E = Input, A = Output, M = Ground

INTEGRATED CLIMATE REGULATION (IHKR E36)

POWER, BLOWER CONTROLS

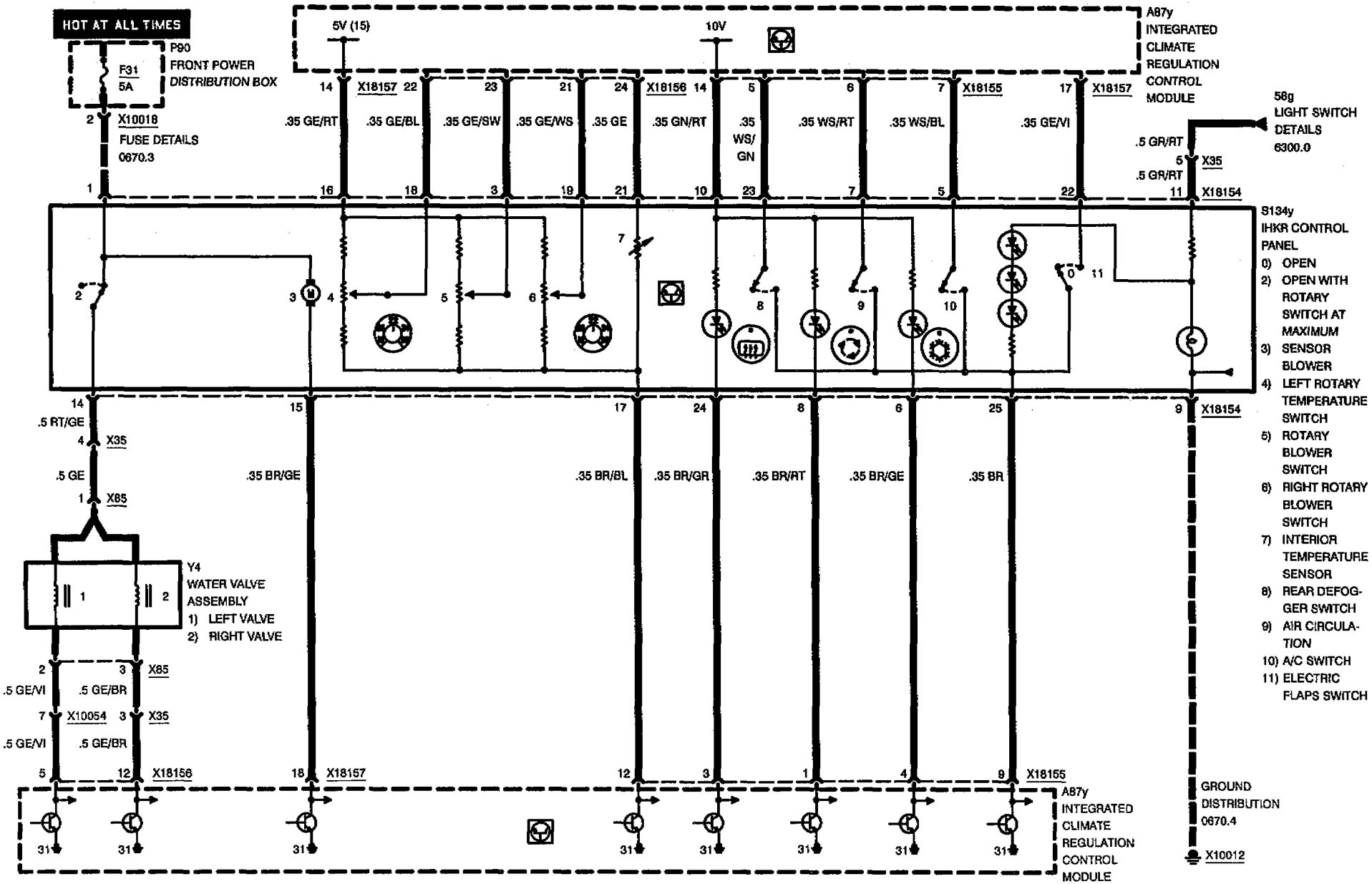
EARLY PRODUCTION




2.5 GN/BR
5 X905
S75
BLOWER SWITCH
0) OFF
1) SLOW
2) MEDIUM
3) FAST
4) MAXIMUM
4 3 2 1 X905
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
X906
2.5 GN/GR
WITH PARK VENTILATION
WITHOUT PARK VENTILATION
HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F20
30A
20 X10016
FUSE DETAILS
0670.3
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
2 4 1 3 X998
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
4 1 2 3 X904
R11
BLOWER RESISTORS
1) OPENS IF RESISTORS OVERHEAT
.7 Ω 1 Ω 2.2 Ω
2.5 GN 2.5 RT/GN 2.5 RT/GN
5 2 8 X607
87a 87 86
K450
PARK VENTILATION RELAY
30 85
6 2.5 GN
4 .5 SW/WS/GE X607
X10103 X18165
1 X616
M30
BLOWER MOTOR
1 X617
2.5 GN/GR 2.5 BL 2.5 GN 1.5 SW
2 4 1 3 X999
.5 GN .5 SW/WS/GE .5 SW/WS/GE
12 .35 GN/BR
11 .35 SW/WS/GE X35
9 X18156 20 X18155
14 X1071
GROUND DISTRIBUTION
0670.4
X10012
R11
BLOWER RESISTORS
.7 Ω 1 Ω 2.2 Ω
A87y
INTEGRATED CLIMATE REGULATION CONTROL MODULE
N4
ON-BOARD COMPUTER
3) VENTILATION
3
31
A35
ON-BOARD DISPLAY

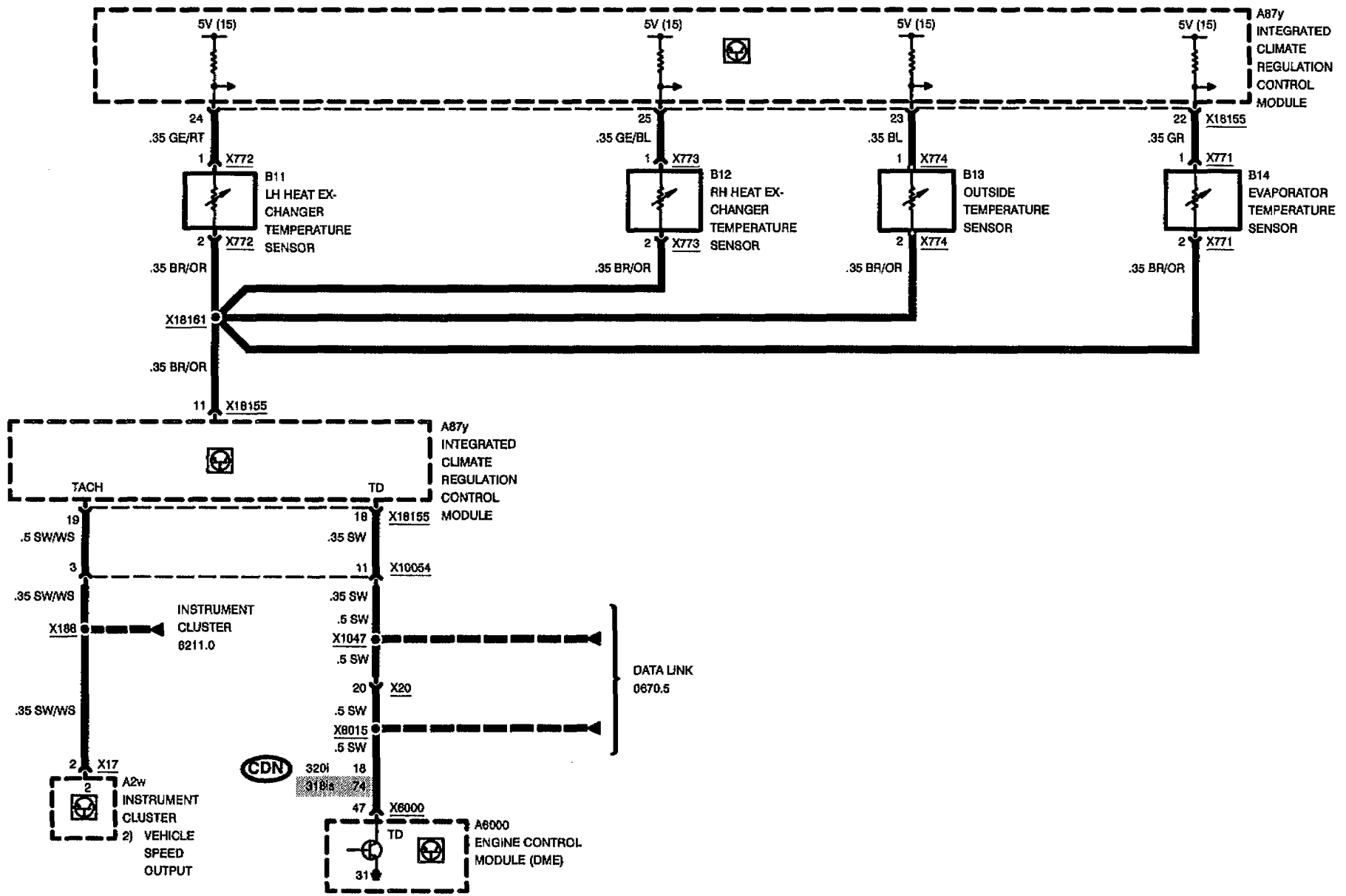
INTEGRATED CLIMATE REGULATION (IHKR E36)

CONTROL MODULE, WATER VALVES



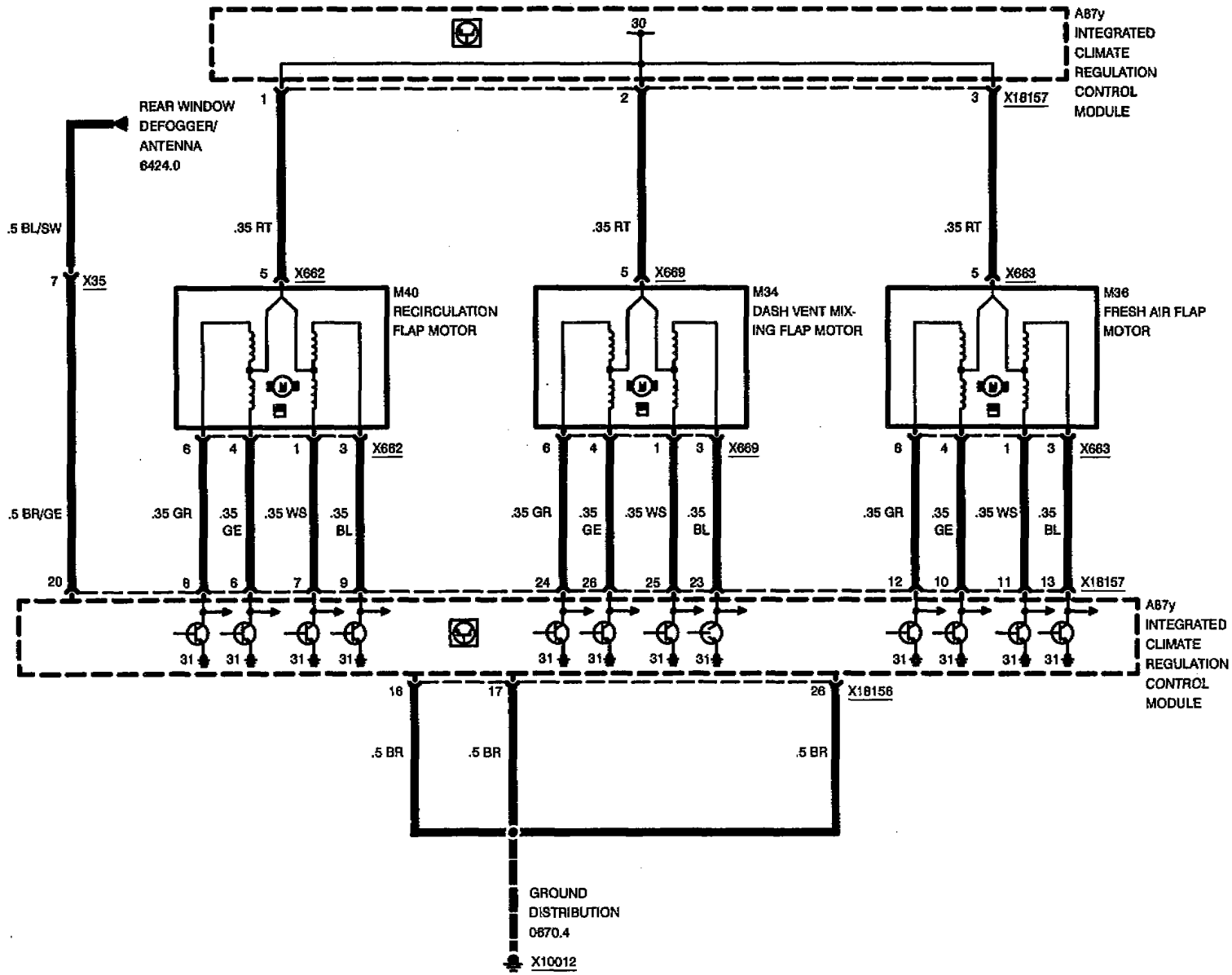
INTEGRATED CLIMATE REGULATION (IHKR E36)

TEMPERATURE CONTROL



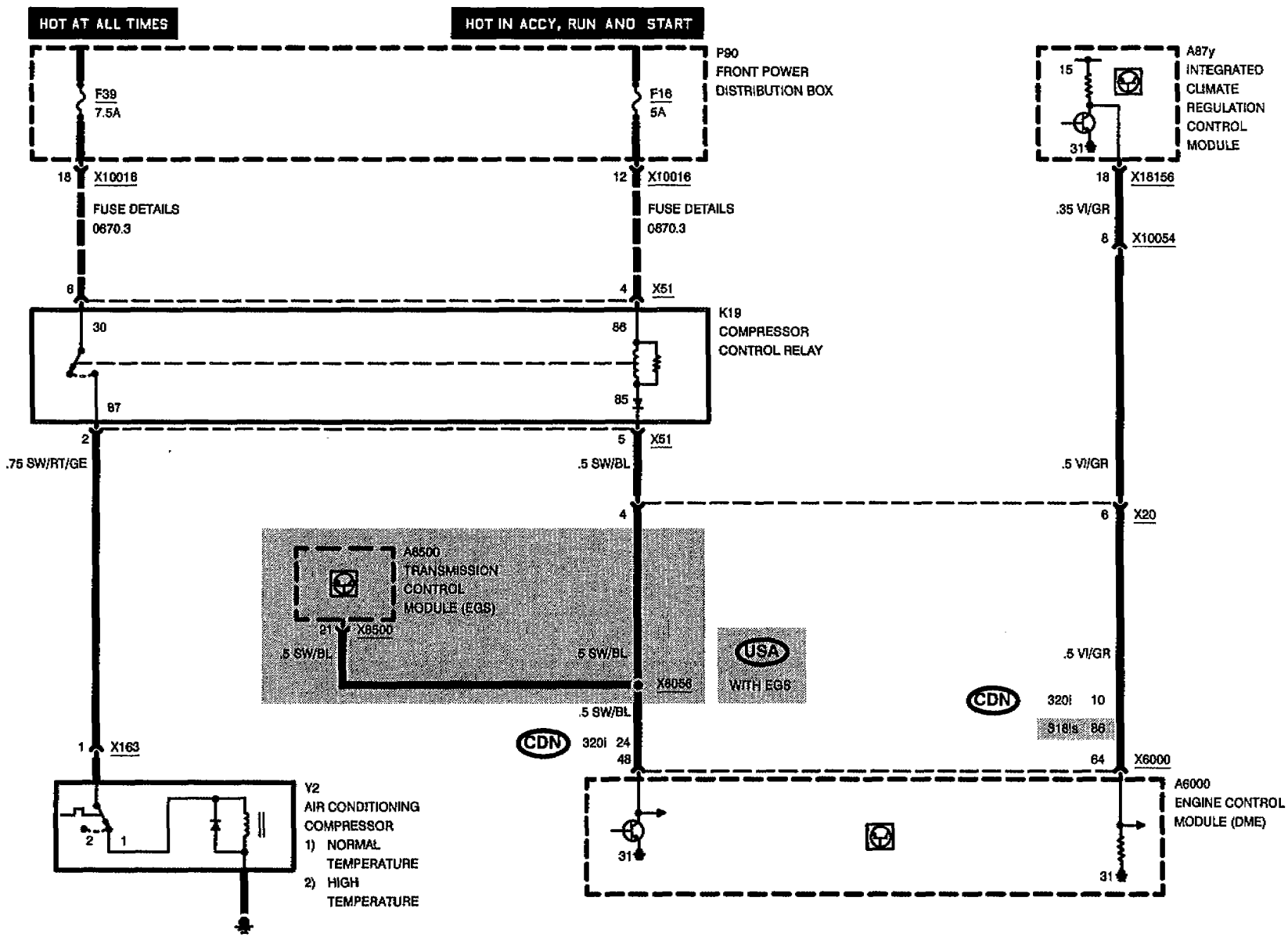
INTEGRATED CLIMATE REGULATION (IHKR E36)

AIR DELIVERY



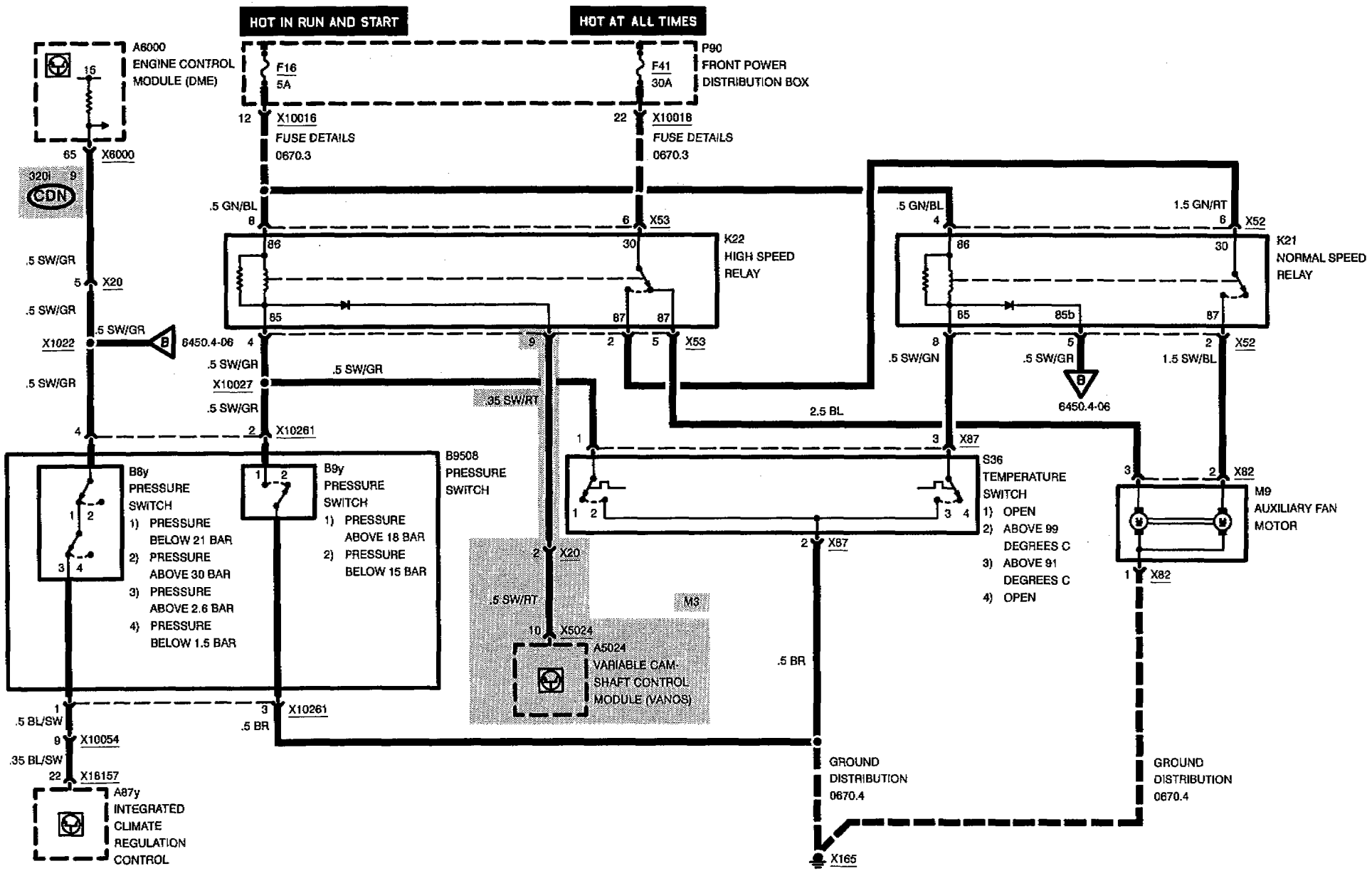
INTEGRATED CLIMATE REGULATION (IHKR E36)

COMPRESSOR CONTROLS



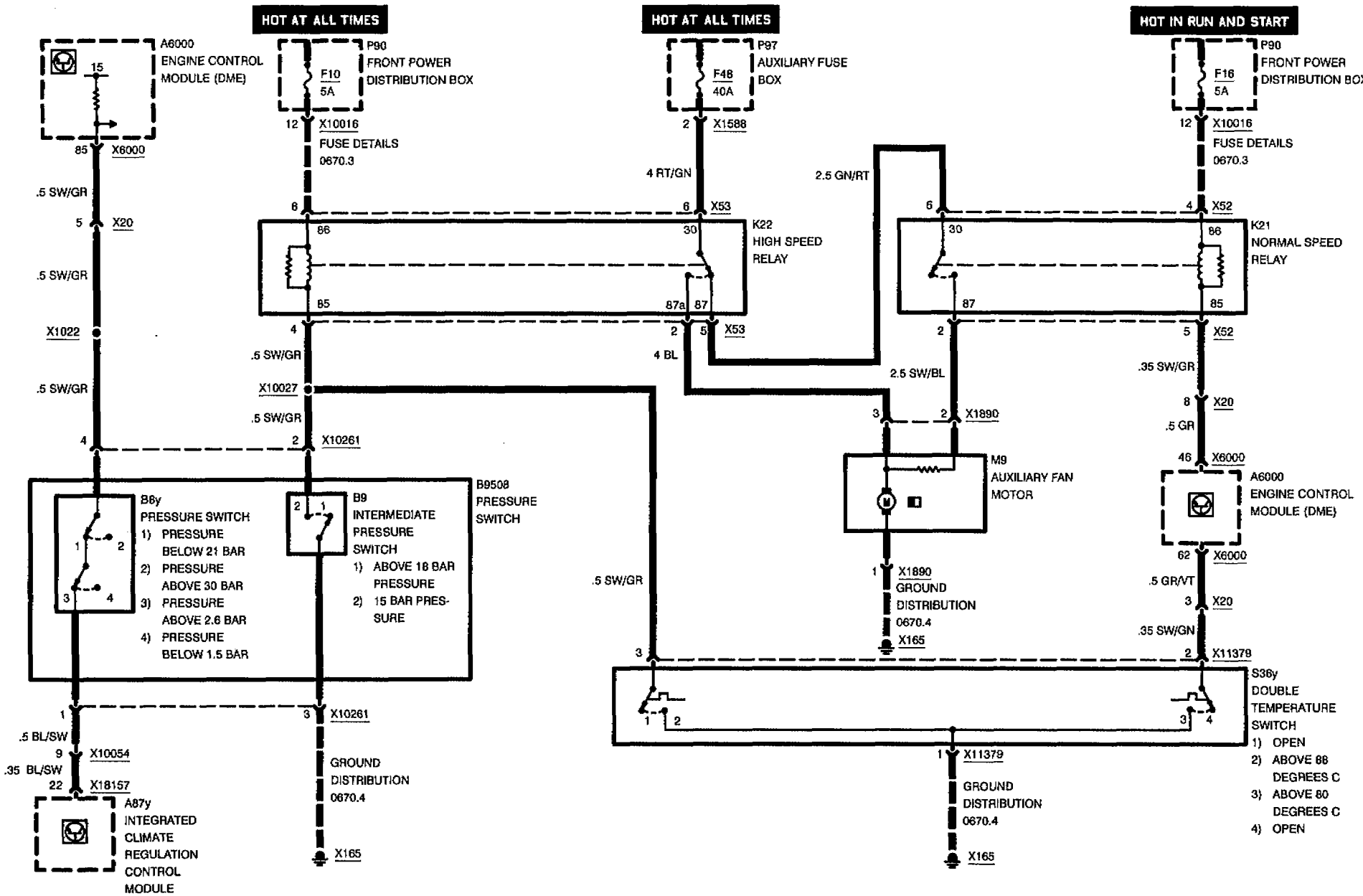
INTEGRATED CLIMATE REGULATION (IHKR E36)

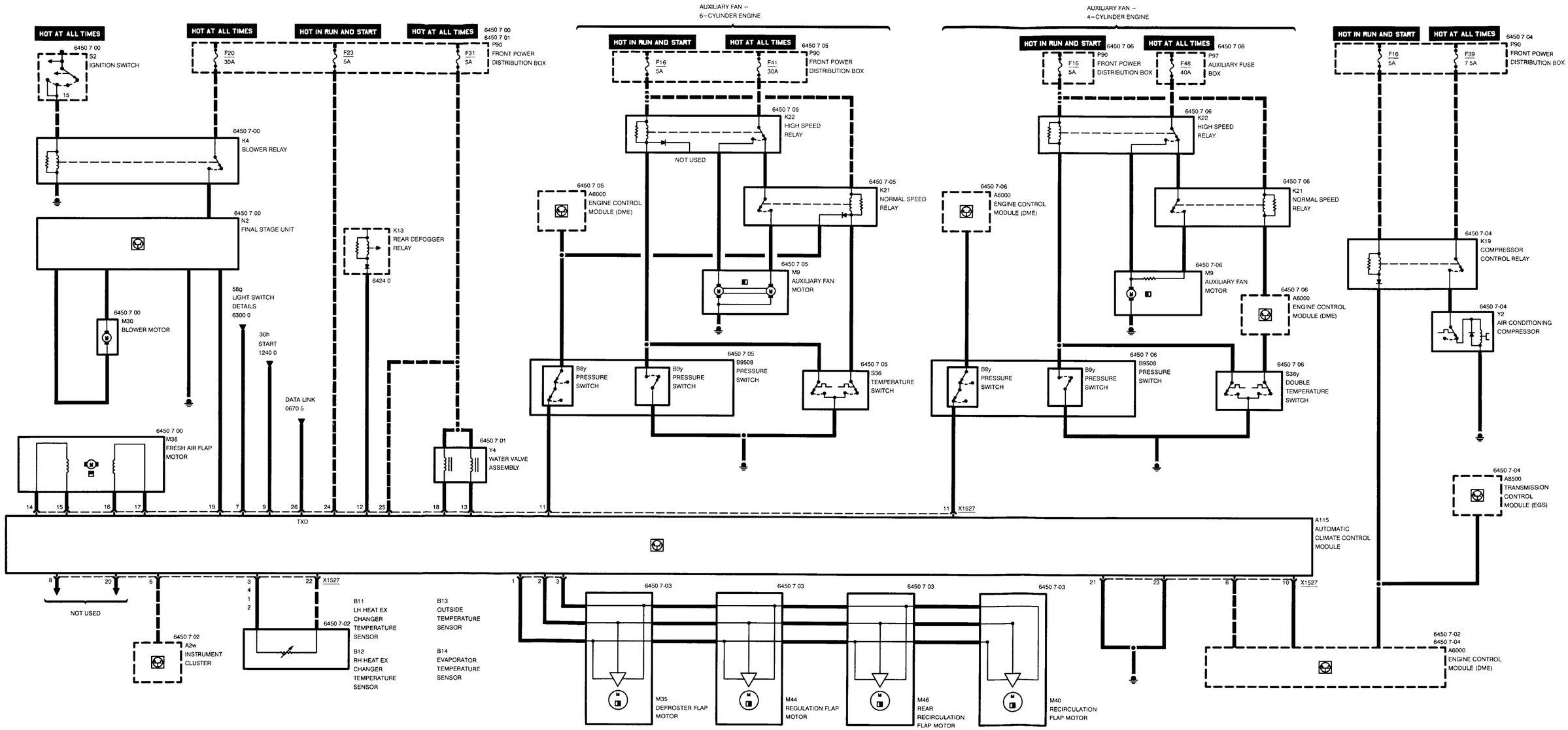
AUXILIARY FAN – 6–CYLINDER ENGINE

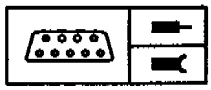


INTEGRATED CLIMATE REGULATION (IHKR E36)

AUXILIARY FAN – 4–CYLINDER ENGINE




HOT AT ALL TIMES
6450 7 00
S2
IGNITION SWITCH
15
HOT AT ALL TIMES
HOT IN RUN AND START
HOT AT ALL TIMES
6450 7 00
6450 7 01
P90
FRONT POWER DISTRIBUTION BOX
F20
30A
F23
5A
F31
5A
6450 7-00
K4
BLOWER RELAY
6450 7 00
N2
FINAL STAGE UNIT
K13
REAR DEFOGGER RELAY
6424 0
6450 7 00
M30
BLOWER MOTOR
58g
LIGHT SWITCH DETAILS
6300 0
30h
START
1240 0
DATA LINK
0670 5
6450 7 00
M36
FRESH AIR FLAP MOTOR
6450 7 01
Y4
WATER VALVE ASSEMBLY
14 15 16 17 19 7 9 26 24 12 25 18 13 11
TXD
AUXILIARY FAN – 6–CYLINDER ENGINE
HOT IN RUN AND START
HOT AT ALL TIMES
6450 7 05
P90
FRONT POWER DISTRIBUTION BOX
F16
5A
F41
30A
6450 7 05
K22
HIGH SPEED RELAY
NOT USED
6450 7-05
K21
NORMAL SPEED RELAY
6450 7 05
A6000
ENGINE CONTROL MODULE (DME)
6450 7 05
M9
AUXILIARY FAN MOTOR
B8y
PRESSURE SWITCH
B9y
PRESSURE SWITCH
6450 7 05
B9508
PRESSURE SWITCH
6450 7 05
S36
TEMPERATURE SWITCH
AUXILIARY FAN – 4–CYLINDER ENGINE
HOT IN RUN AND START
HOT AT ALL TIMES
6450 7 06
P90
FRONT POWER DISTRIBUTION BOX
F16
5A
6450 7 06
P97
AUXILIARY FUSE BOX
F48
40A
6450 7 06
K22
HIGH SPEED RELAY
6450 7 06
K21
NORMAL SPEED RELAY
6450 7-06
A6000
ENGINE CONTROL MODULE (DME)
6450 7-06
M9
AUXILIARY FAN MOTOR
6450 7 06
A6000
ENGINE CONTROL MODULE (DME)
B8y
PRESSURE SWITCH
B9y
PRESSURE SWITCH
6450 7 06
B9508
PRESSURE SWITCH
6450 7 06
S36y
DOUBLE TEMPERATURE SWITCH
HOT IN RUN AND START
HOT AT ALL TIMES
6450 7 04
P90
FRONT POWER DISTRIBUTION BOX
F16
5A
F39
7 5A
6450 7-04
K19
COMPRESSOR CONTROL RELAY
6450 7-04
Y2
AIR CONDITIONING COMPRESSOR
6450 7-04
A6500
TRANSMISSION CONTROL MODULE (EGS)
11 X1527
A115
AUTOMATIC CLIMATE CONTROL MODULE
8 20 5 3 4 1 2 22 X1527
NOT USED
6450 7 02
A2w
INSTRUMENT CLUSTER
6450 7-02
B11
LH HEAT EX CHANGER TEMPERATURE SENSOR
B12
RH HEAT EX CHANGER TEMPERATURE SENSOR
B13
OUTSIDE TEMPERATURE SENSOR
B14
EVAPORATOR TEMPERATURE SENSOR
1 2 3
6450 7-03
M35
DEFROSTER FLAP MOTOR
6450 7 03
M44
REGULATION FLAP MOTOR
6450 7 03
M46
REAR RECIRCULATION FLAP MOTOR
6450 7-03
M40
RECIRCULATION FLAP MOTOR
21 23 6 10 X1527
6450 7-02
6450 7-04
A6000
ENGINE CONTROL MODULE (DME)



Pin Assignments

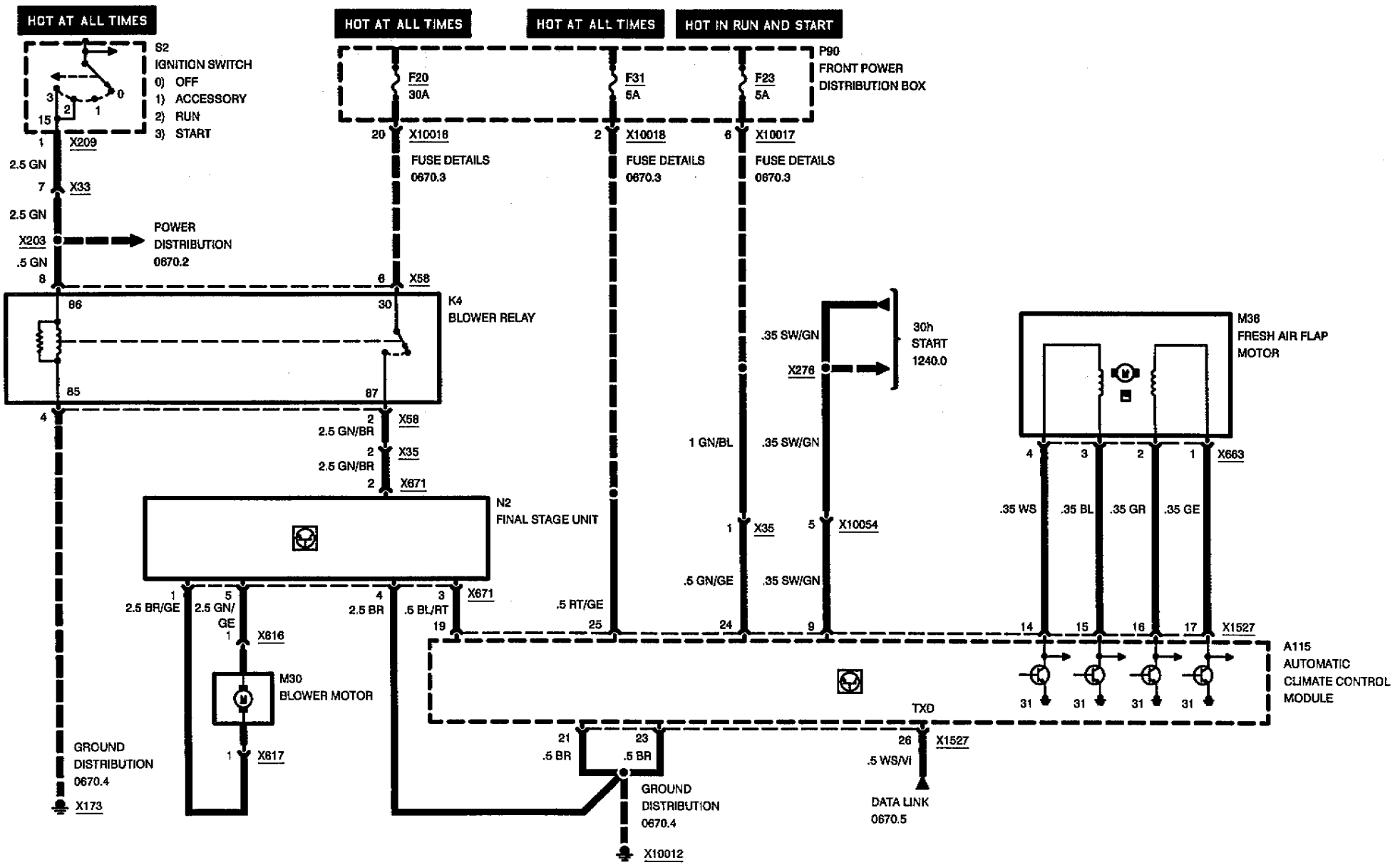
X1527

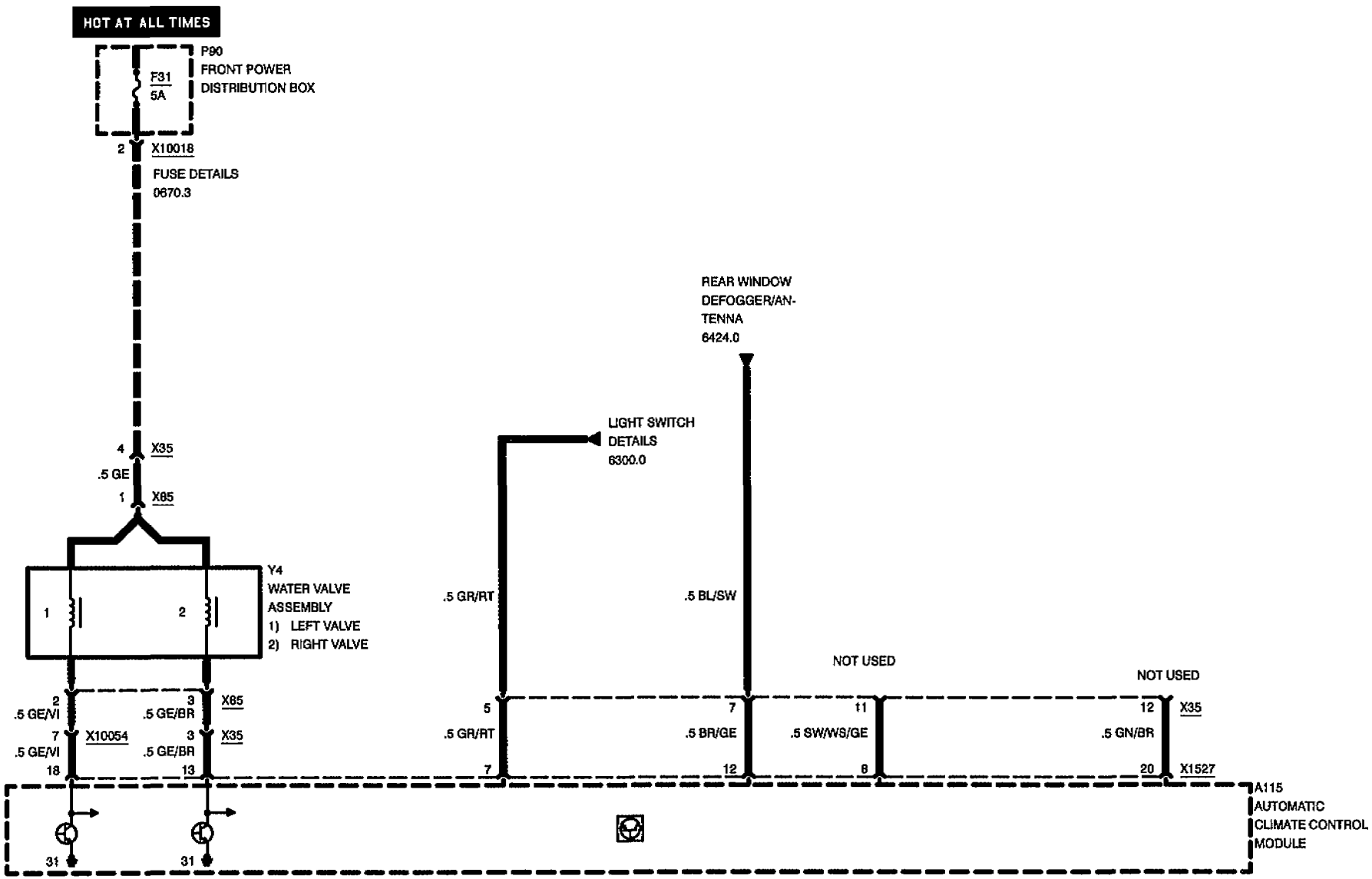
Pin	Type	Description/Function	Connection
1	E	Outside temperature	Outside temperature sensor
2	E	Evaporator temperature	Evaporator temperature sensor
3	E	Heater temperature, left	Left heat exchanger temperature sensor
4	E	Heater temperature, right	Right heat exchanger temperature sensor
5	E	Vehicle speed signal (Speedometer output Signal)	Instrument cluster
6	E	RPM speed signal TD	Engine control module (DME)
7	E	Illumination input	Illumination
8	A	Output signal	On-board computer
9	E	Terminal 50	Starter
10	A	RPM speed increase	Engine control module (DME)
11	A	A/C compressor activation	Pressure switch
12	A	Rear window signal	Rear window
13	A	Water valve activation, right	Right water valve
14	A	Fresh air flap motor activation	Fresh air flap motor
15	A	Fresh air flap motor activation	Fresh air flap motor
16	A	Fresh air flap motor activation	Fresh air flap motor
17	A	Fresh air flap motor activation	Fresh air flap motor
18	A	Water valve activation, left	Left water valve
19	A	A/C fan activation	A/C fan final stage
20	E	Independent ventilation	Relay box
21	M	Ground	Control panel
22	M	Ground	Mixing actuator
23	M	Ground	Control panel
24	E	Terminal 15	Fuse
25	E	Terminal 30	Fuse
26	E/A	Diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION

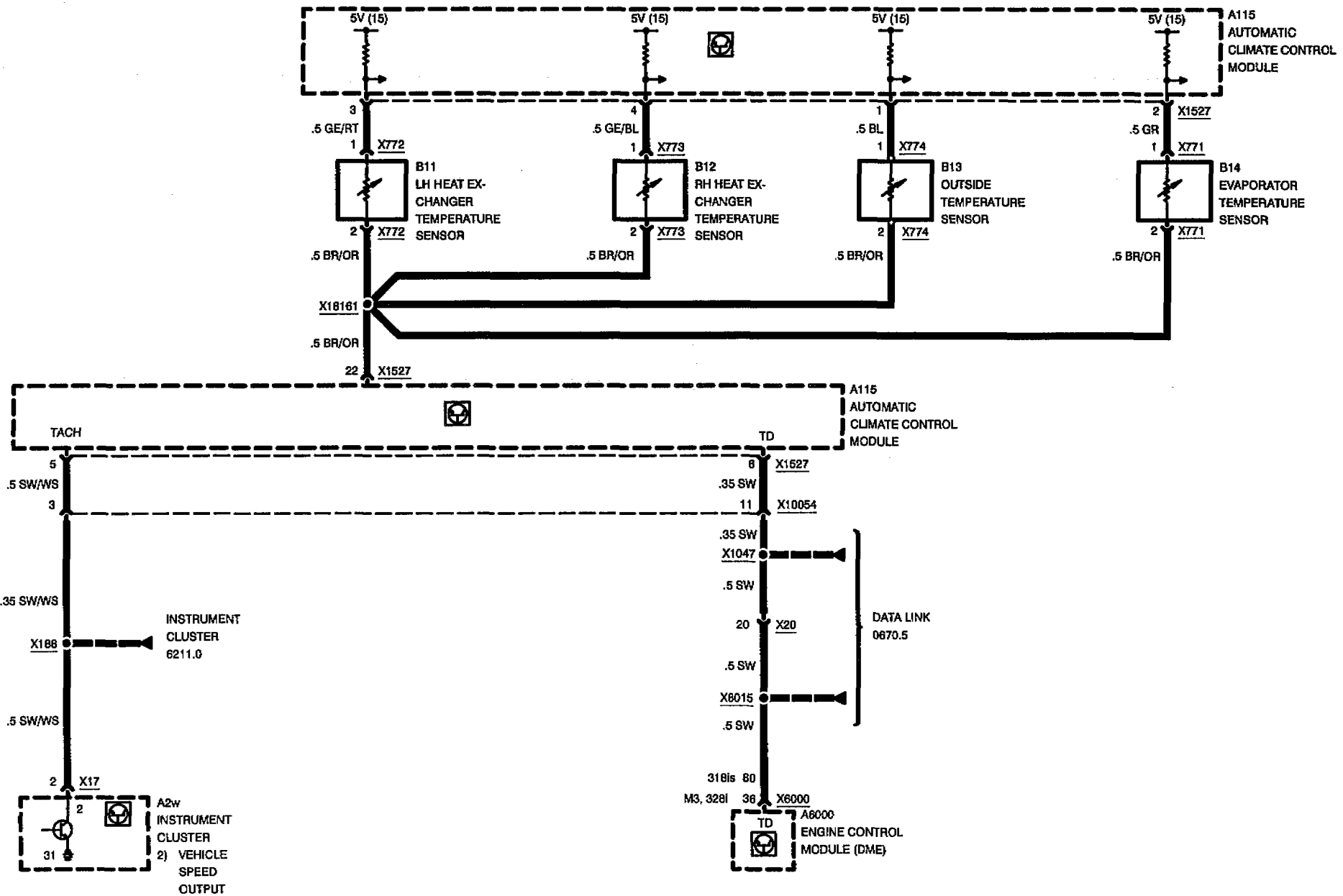
POWER, AIR FLOW CONTROL




HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F31
5A
2
X10018
FUSE DETAILS
0670.3
REAR WINDOW
DEFOGGER/AN-
TENNA
6424.0
LIGHT SWITCH
DETAILS
6300.0
4
X35
.5 GE
1
X65
Y4
WATER VALVE
ASSEMBLY
1) LEFT VALVE
2) RIGHT VALVE
1
2
.5 GR/RT
.5 BL/SW
NOT USED
NOT USED
2
.5 GE/VI
3
.5 GE/BR
X65
7
.5 GE/VI
X10054
3
.5 GE/BR
X35
18
13
5
.5 GR/RT
7
7
.5 BR/GE
12
11
.5 SW/WS/GE
8
12
.5 GN/BR
20
X35
X1527
31
31
A115
AUTOMATIC
CLIMATE CONTROL
MODULE

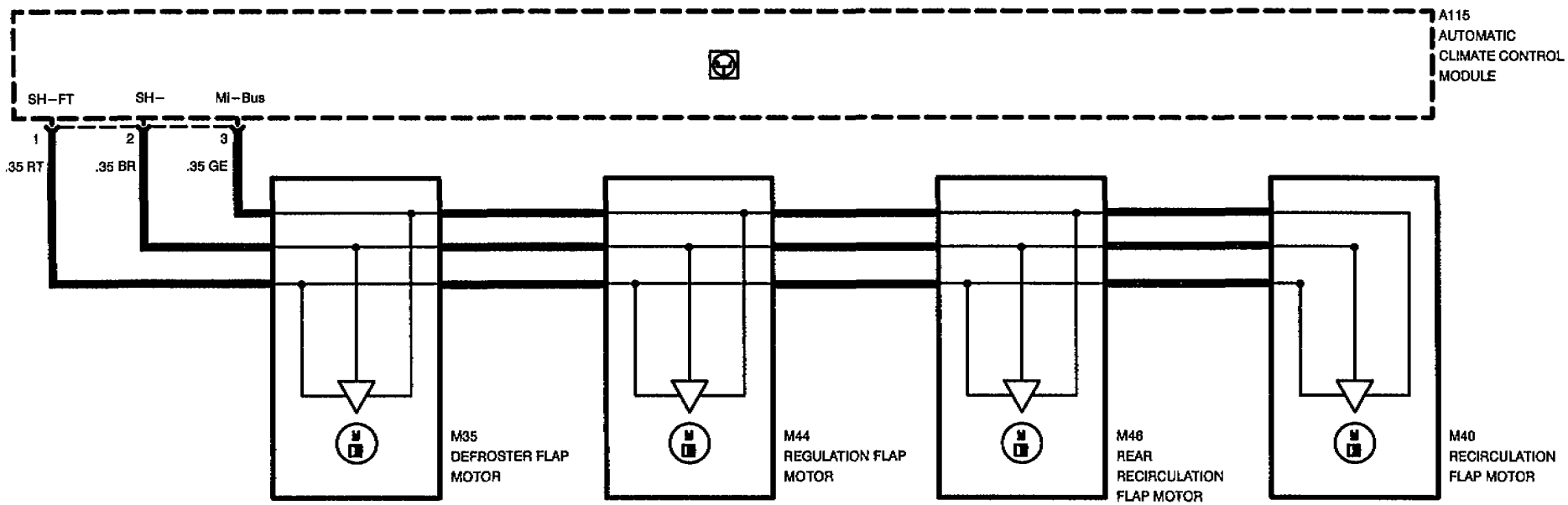
INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION

TEMPERATURE CONTROL



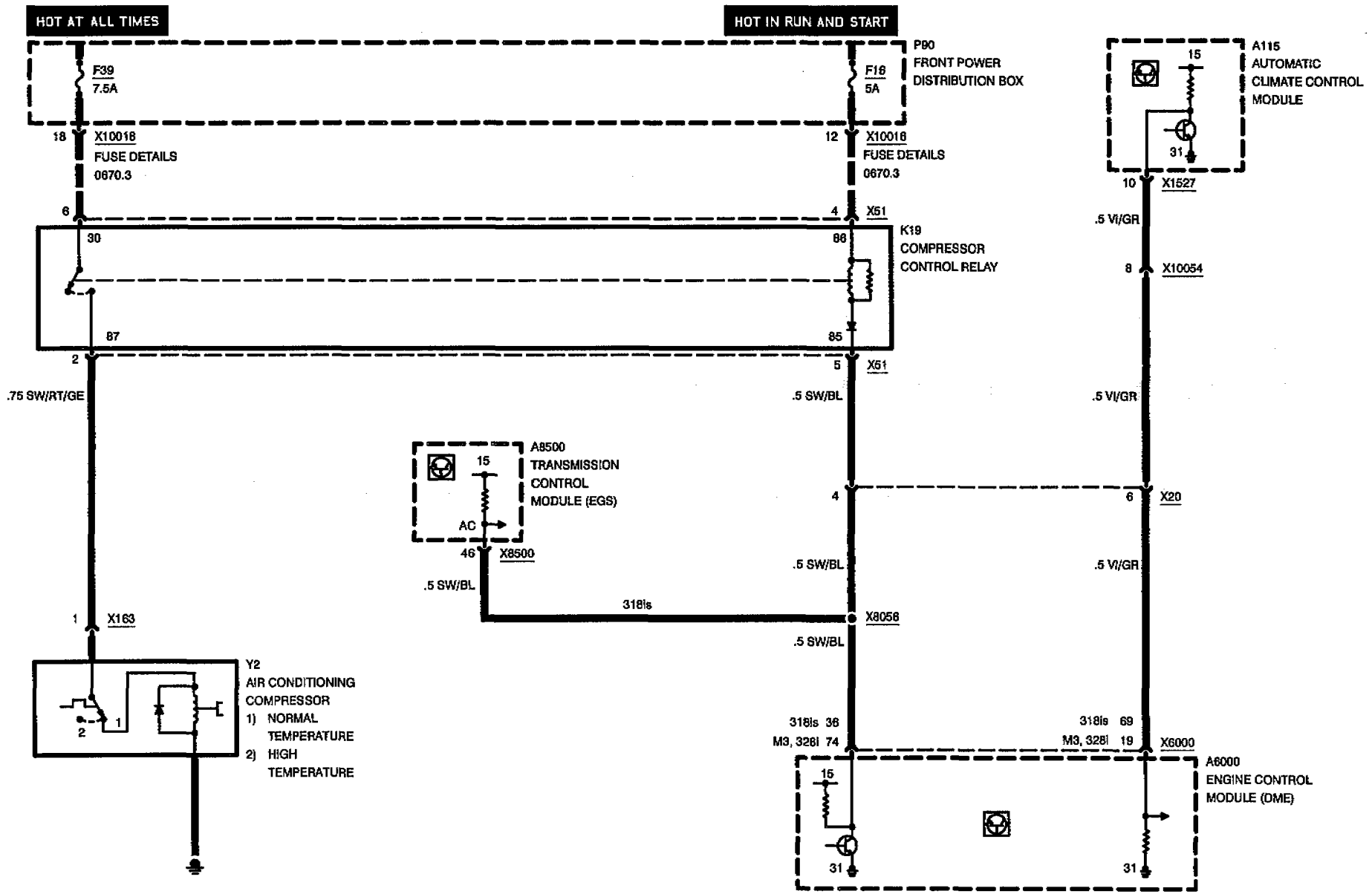
INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION

AIR DELIVERY



INTEGRATED CLIMATE REGULATION (IHKA E36) 318is, 328i, M3 LATE PRODUCTION

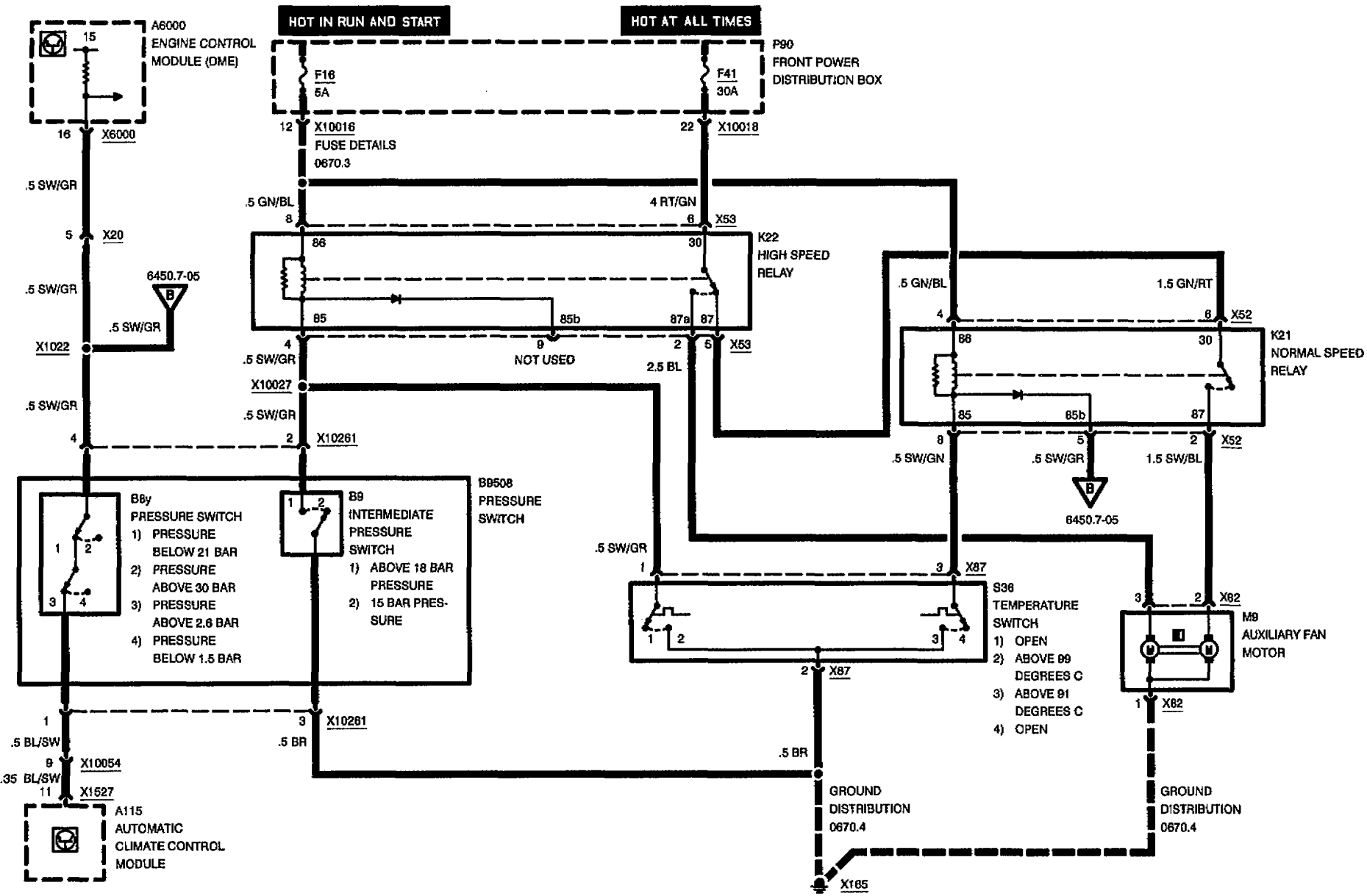
COMPRESSOR CONTROLS



INTEGRATED CLIMATE REGULATION (IHKA E36)

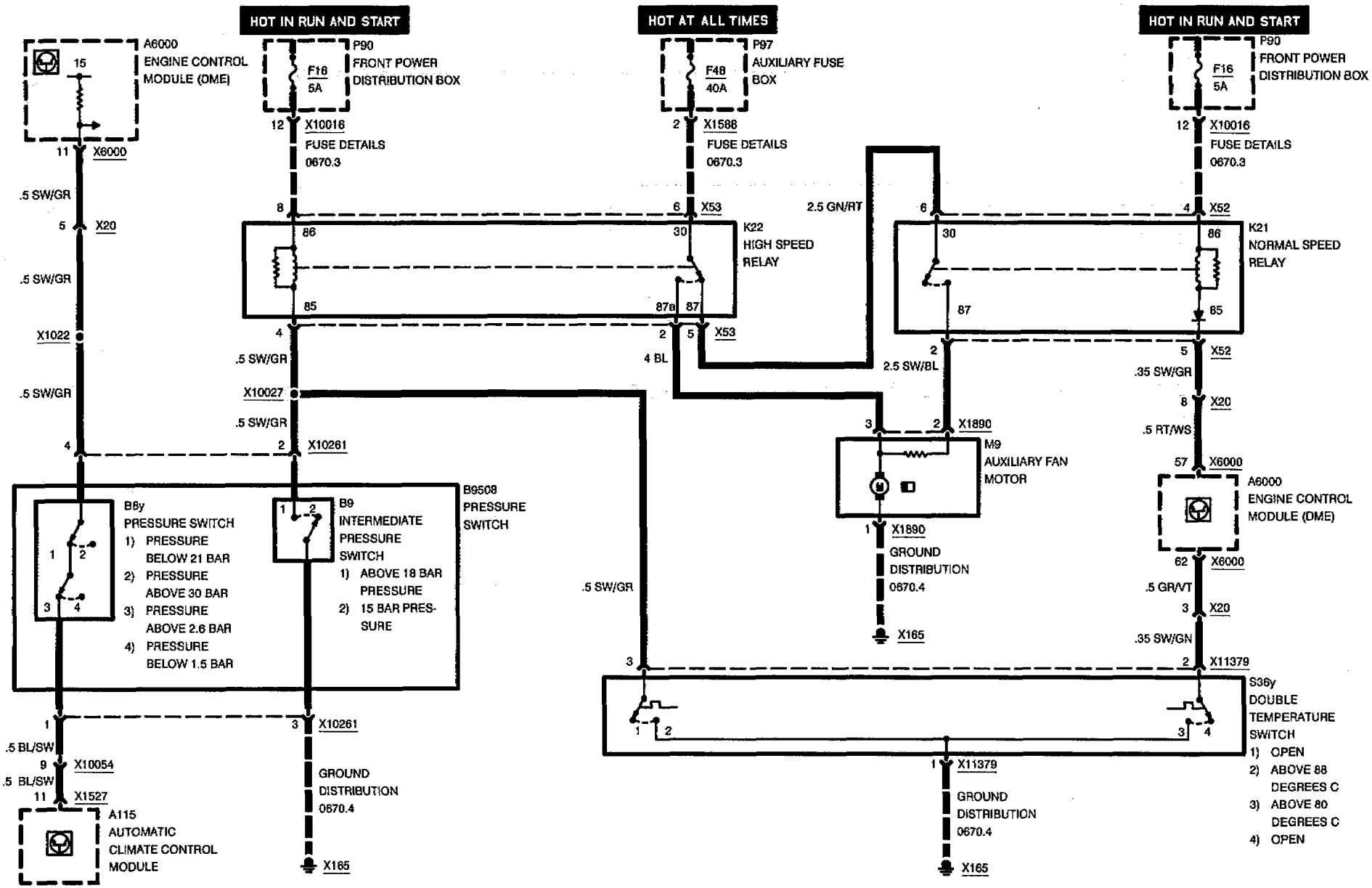
328i, M3 LATE PRODUCTION

AUXILIARY FAN – 6–CYLINDER ENGINE

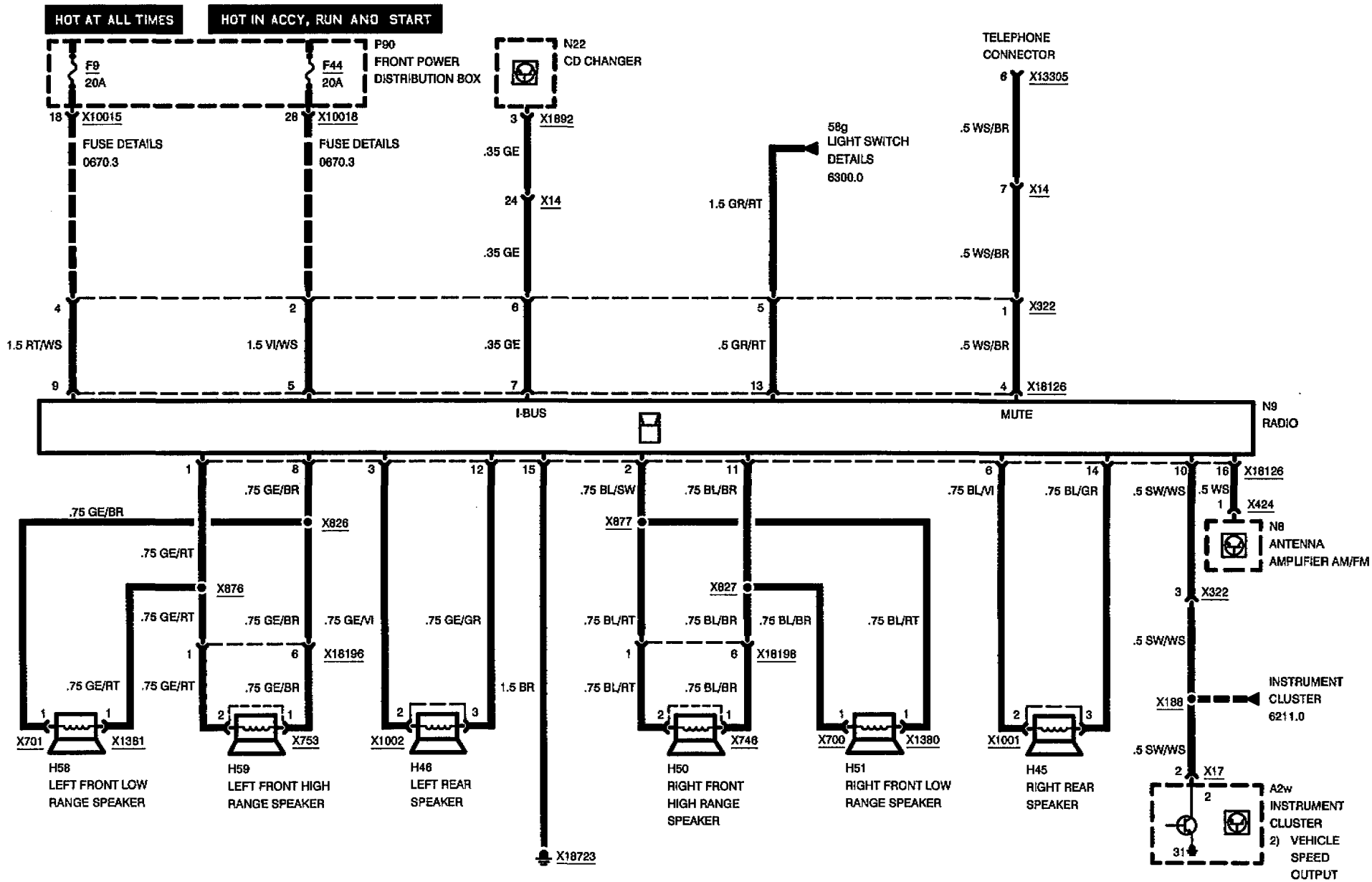


INTEGRATED CLIMATE REGULATION (IHKA E36) 318is LATE PRODUCTION

AUXILIARY FAN – 4–CYLINDER ENGINE

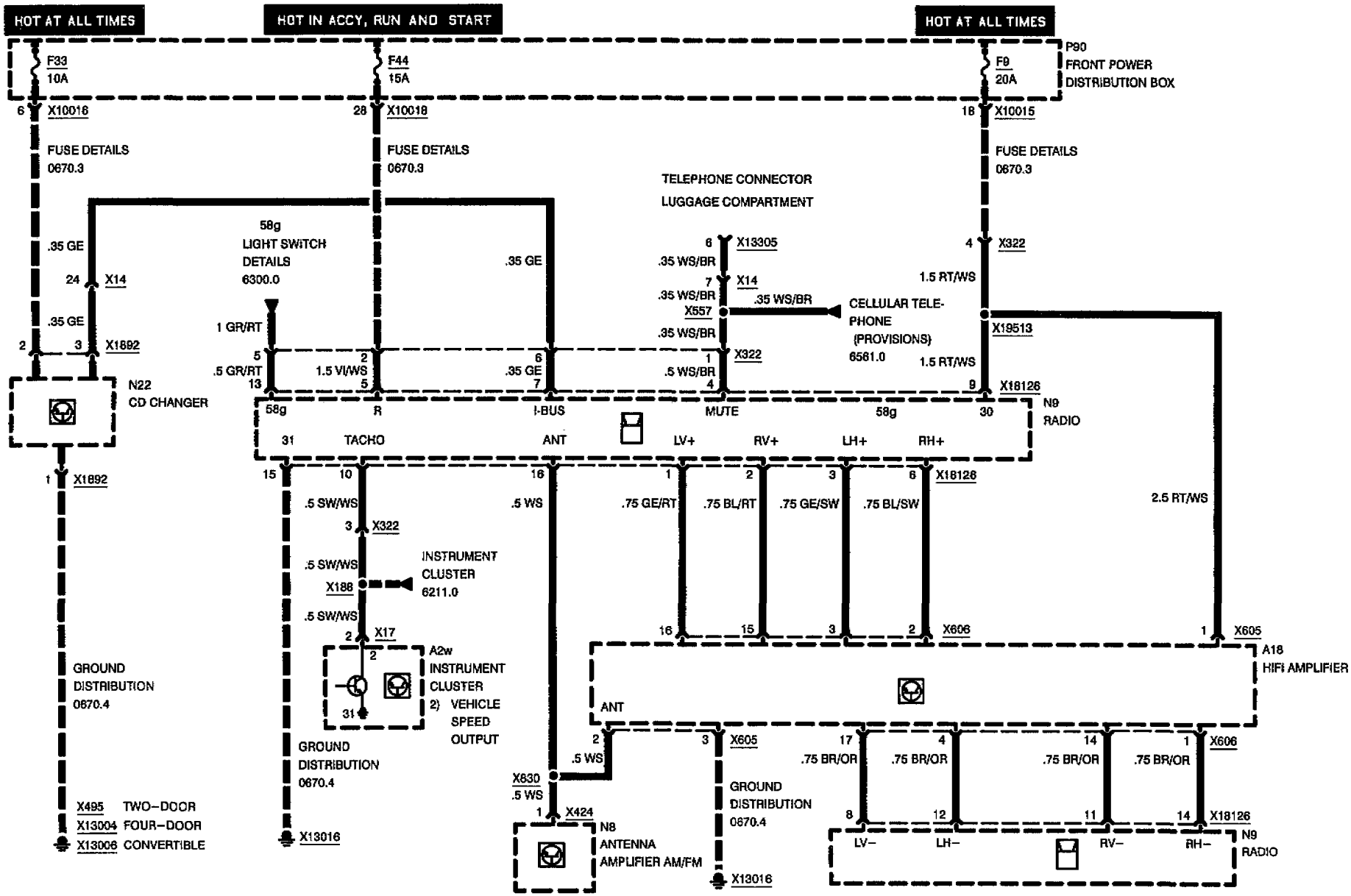


STEREO, 6–SPEAKER SYSTEM



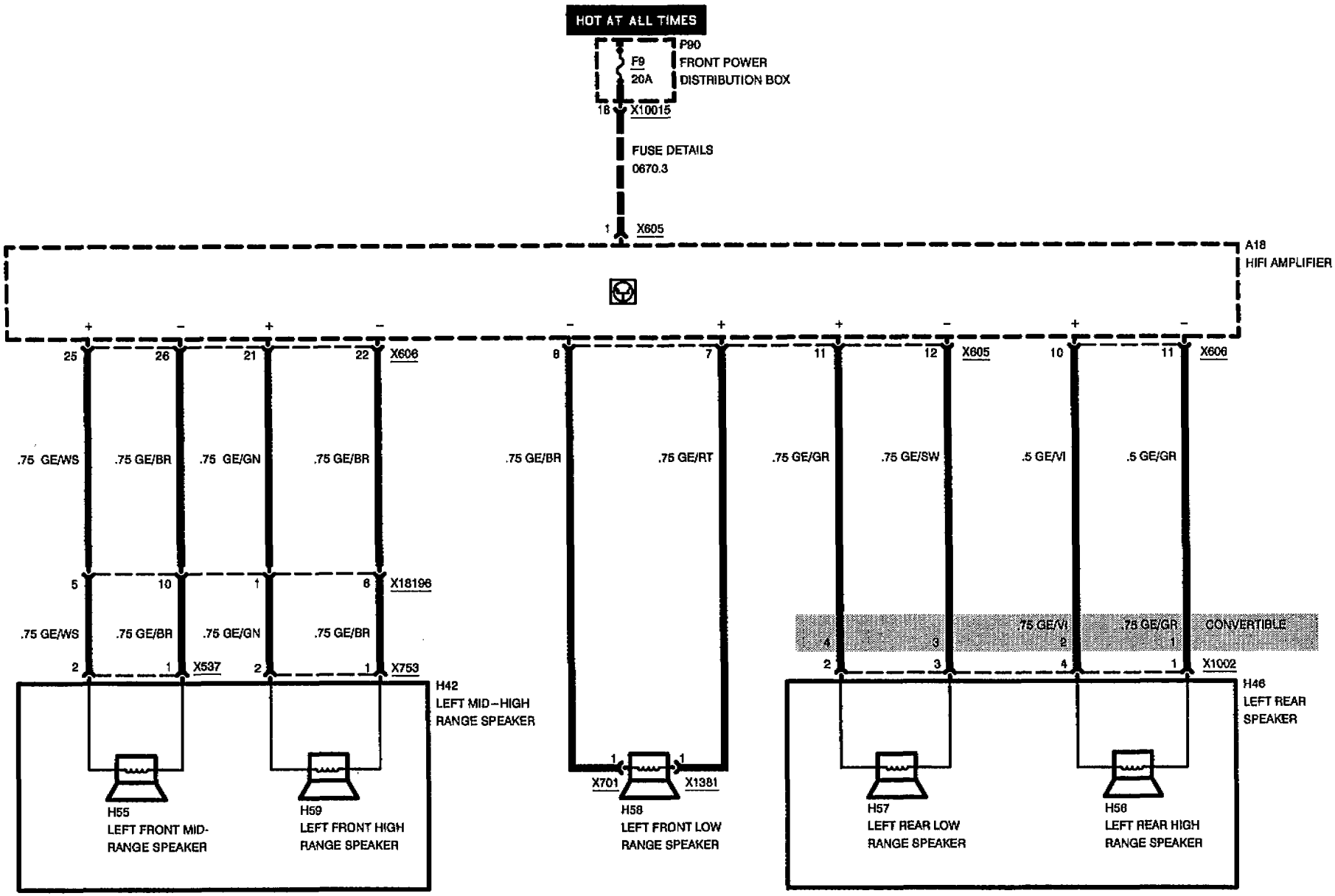
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

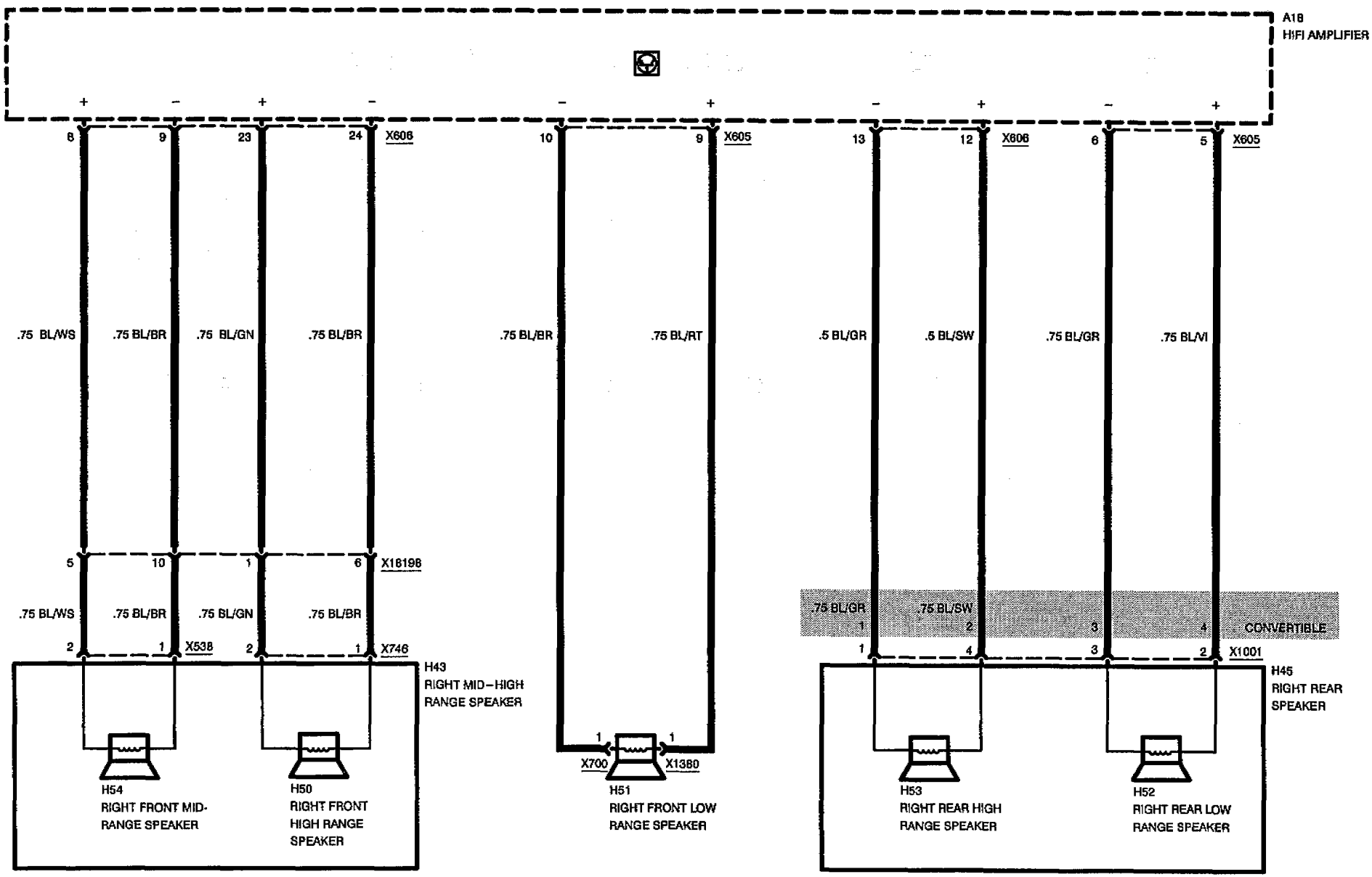


RADIO/HIFI

HIFI, 10–SPEAKER SYSTEM

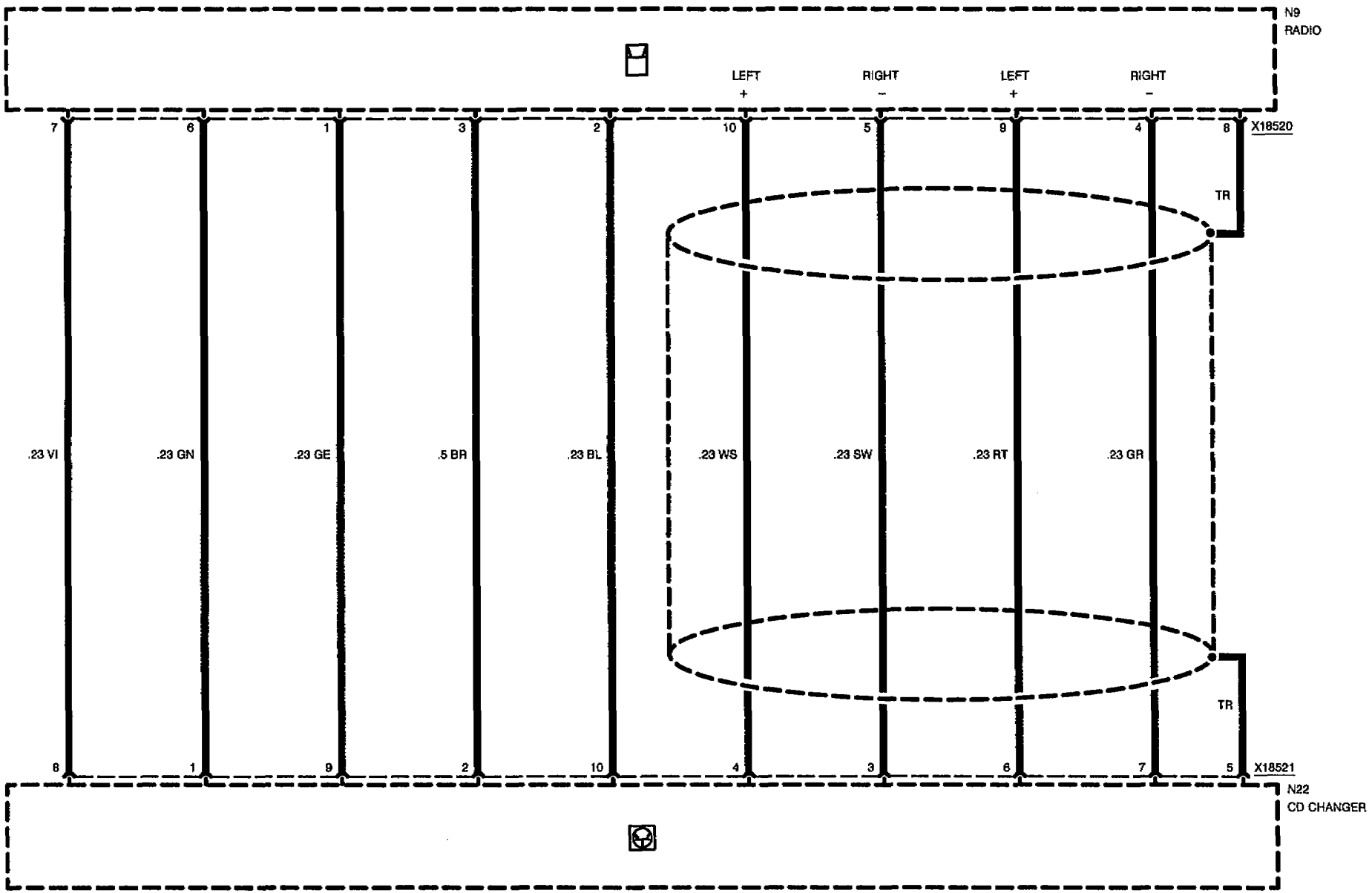


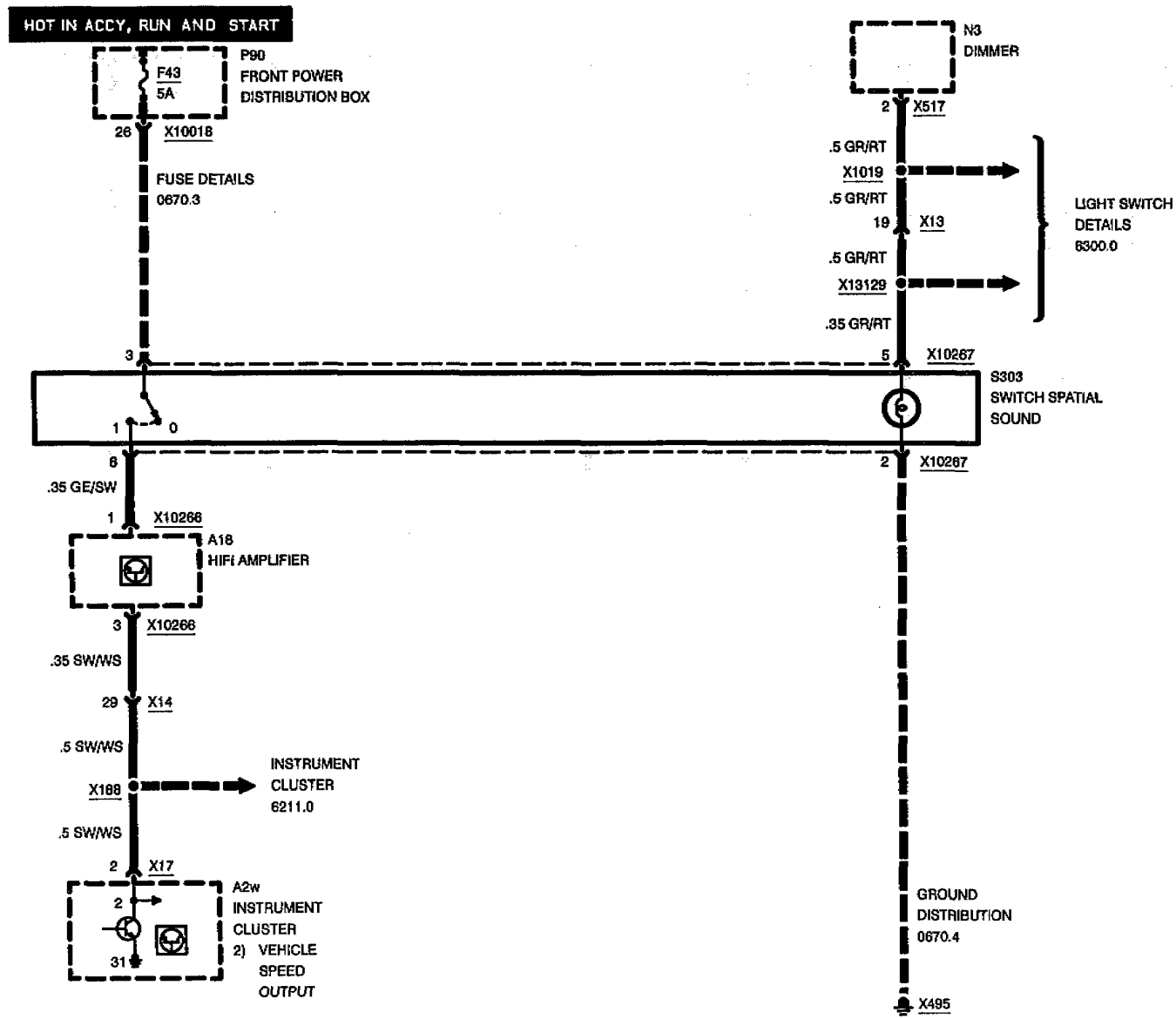
HIFI, 10–SPEAKER SYSTEM



RADIO/HIFI

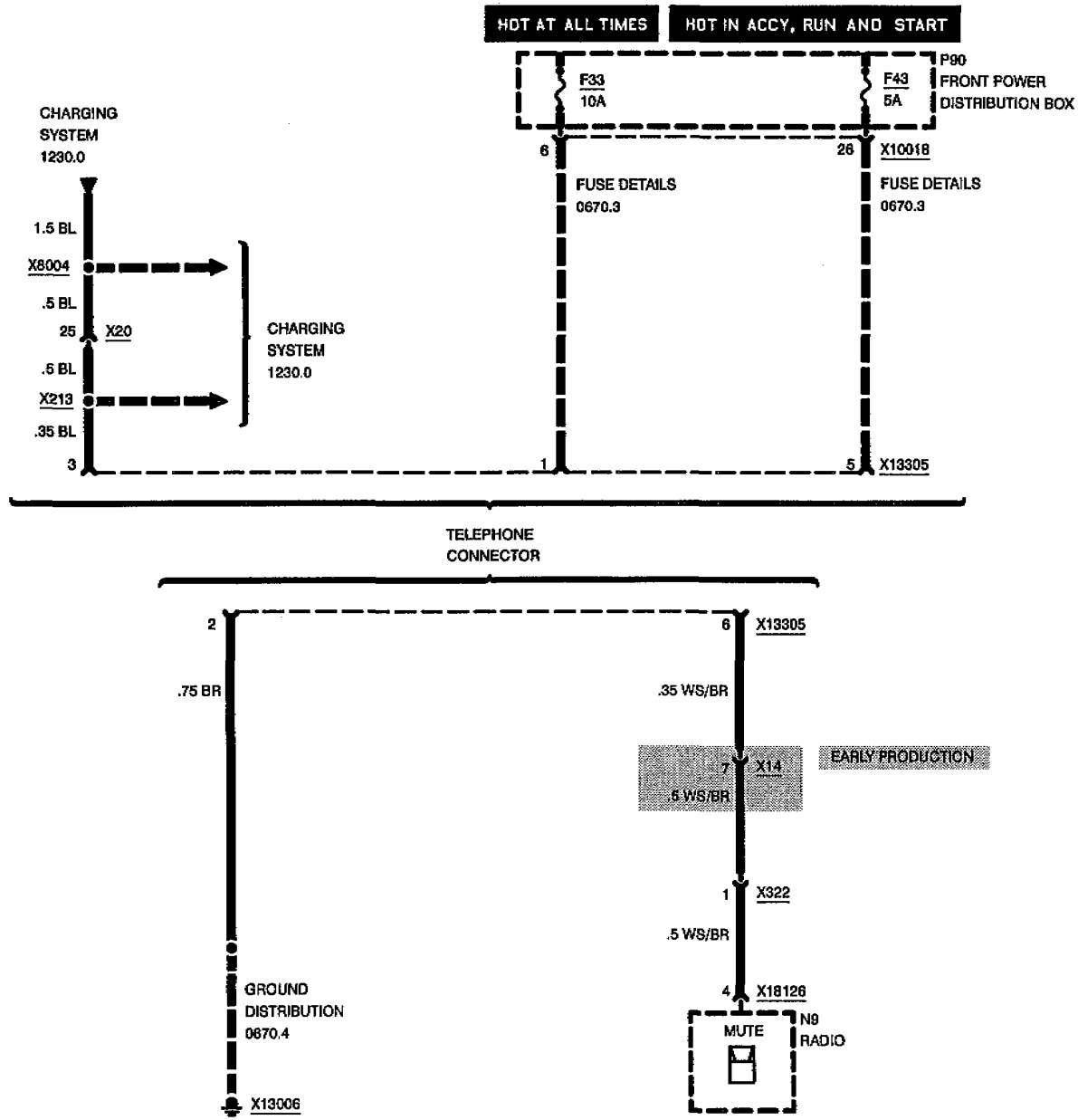
HIFI, 10–SPEAKER SYSTEM



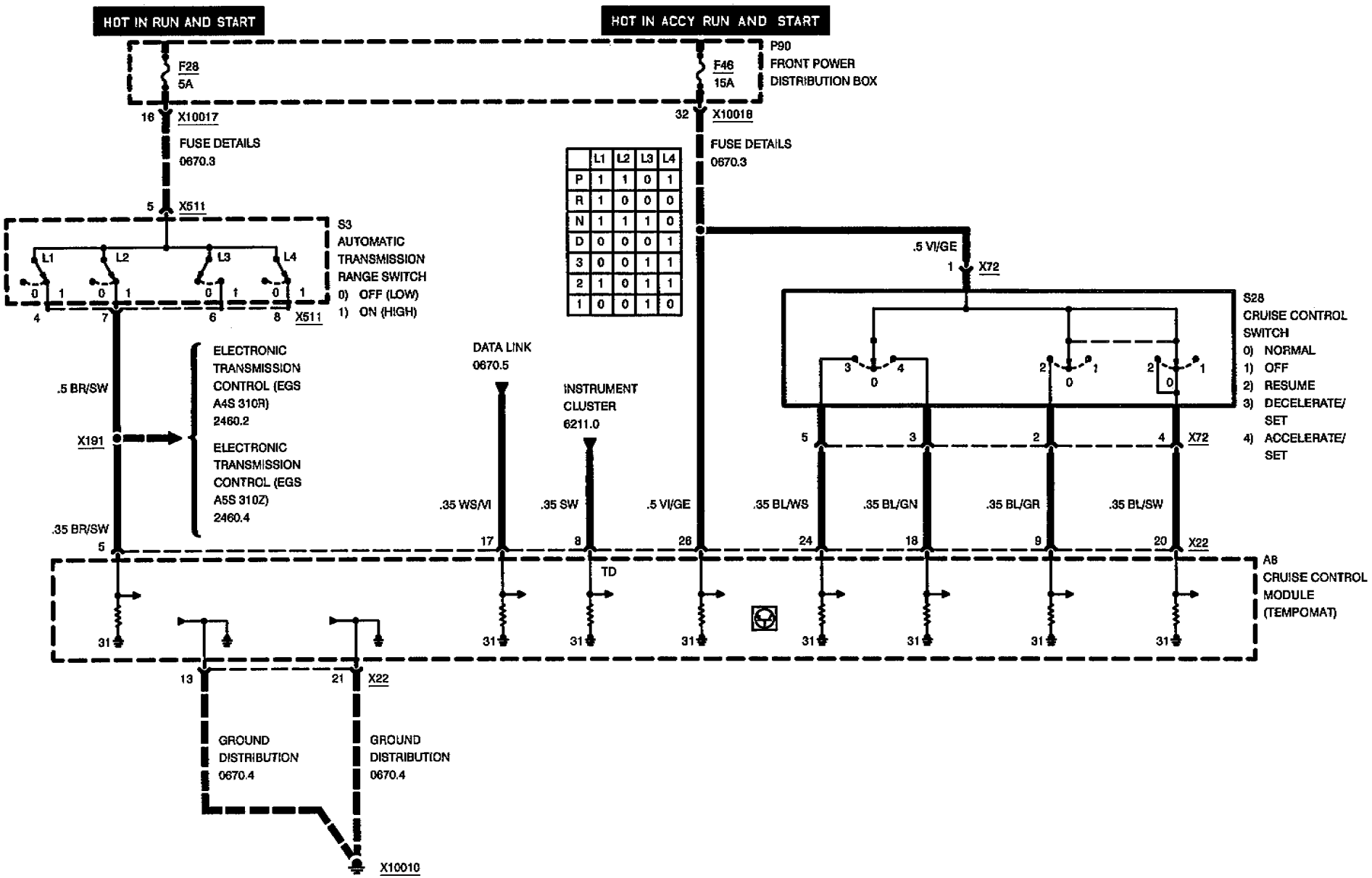

HOT IN ACCY, RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F43
5A
26
X10018
FUSE DETAILS
0670.3
3
1
0
6
.35 GE/SW
1
X10266
A18
HIFI AMPLIFIER
3
X10266
.35 SW/WS
29
X14
.5 SW/WS
X188
INSTRUMENT
CLUSTER
6211.0
.5 SW/WS
2
X17
2
31
A2w
INSTRUMENT
CLUSTER
2) VEHICLE
SPEED
OUTPUT
N3
DIMMER
2
X517
.5 GR/RT
X1019
.5 GR/RT
19
X13
.5 GR/RT
X13129
.35 GR/RT
5
X10267
LIGHT SWITCH
DETAILS
6300.0
S303
SWITCH SPATIAL
SOUND
2
X10267
GROUND
DISTRIBUTION
0670.4
X495

CELLULAR TELEPHONE (PROVISIONS)

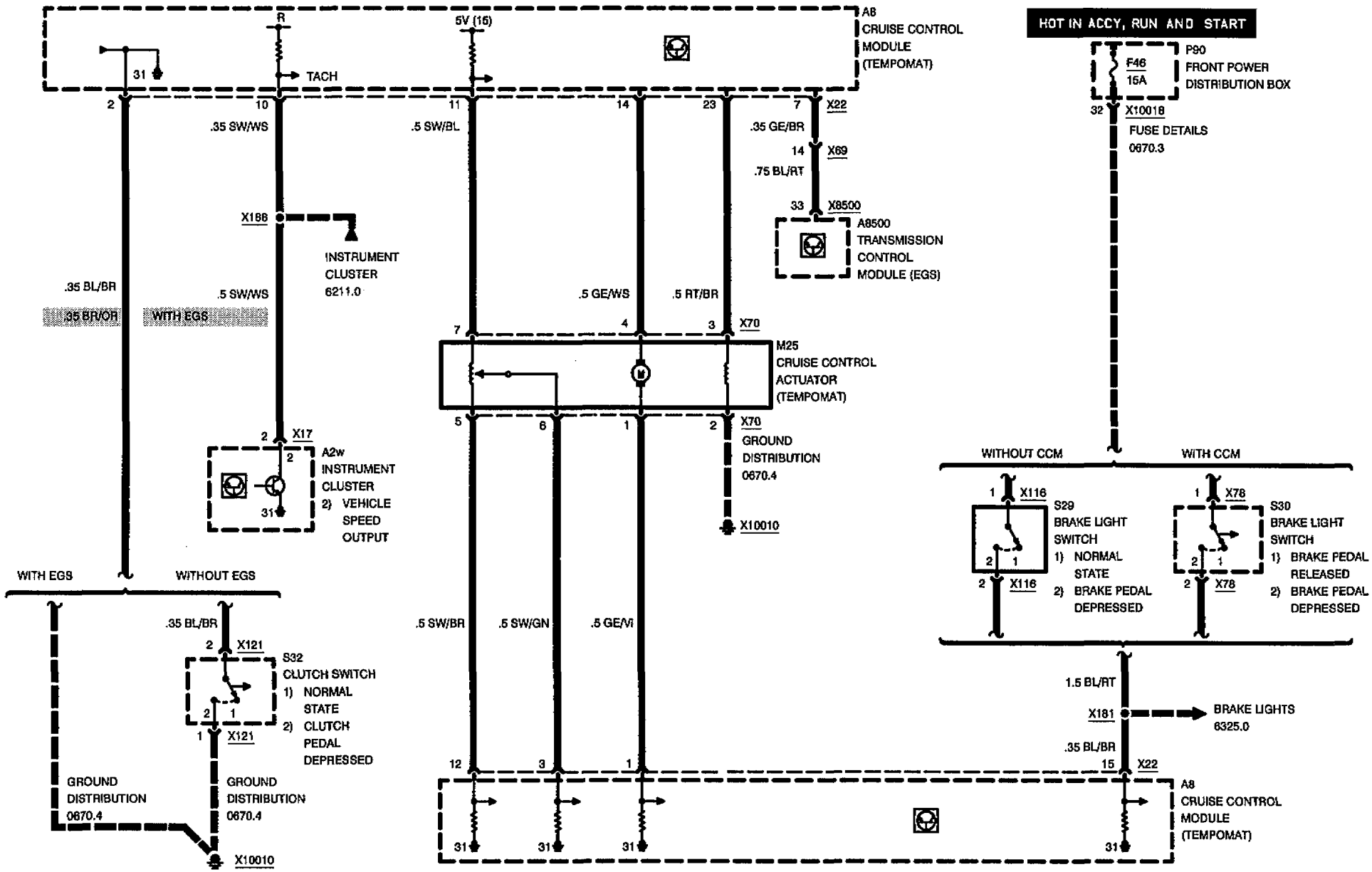
PROVISIONS



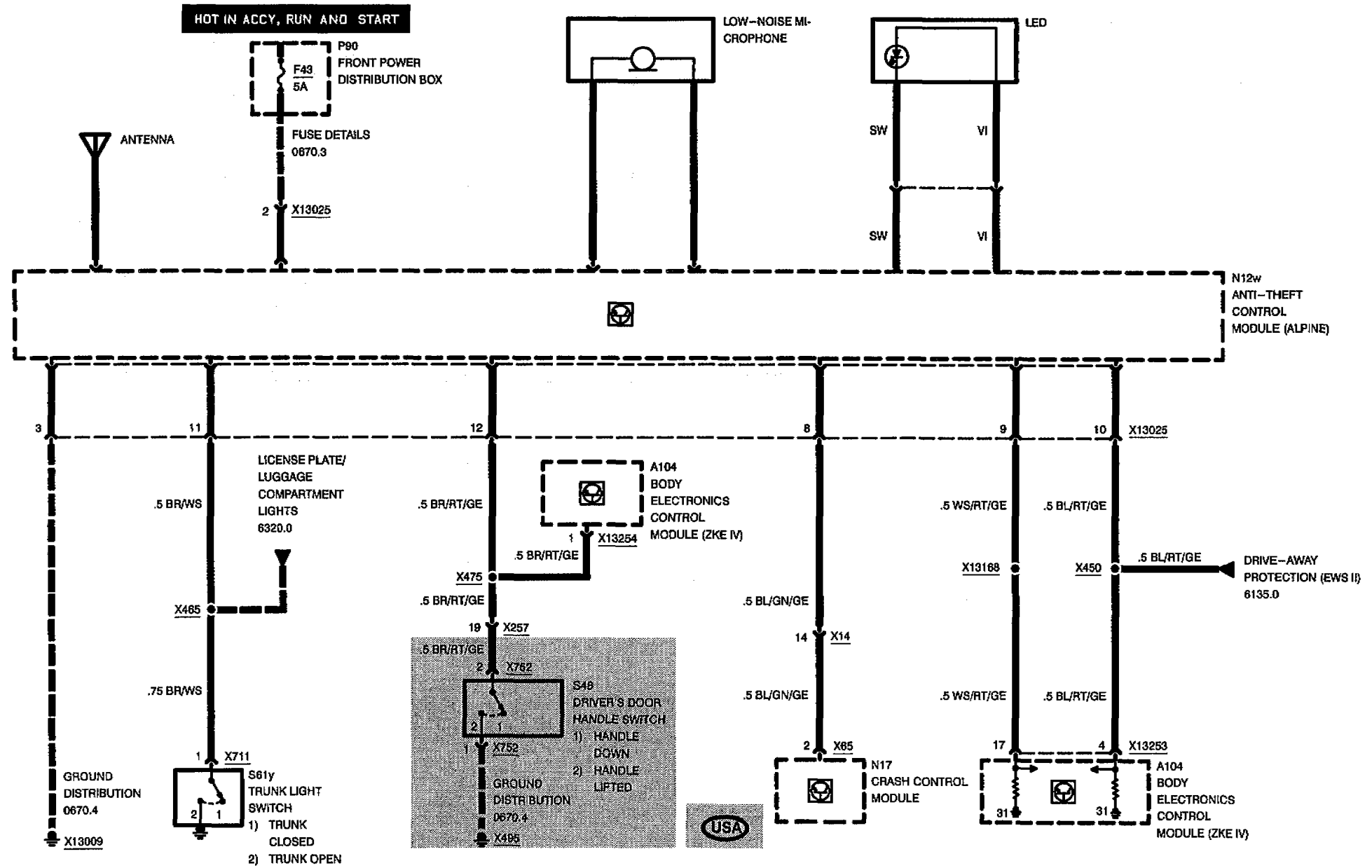
CRUISE CONTROL (TEMPOMAT)



CRUISE CONTROL (TEMPOMAT)

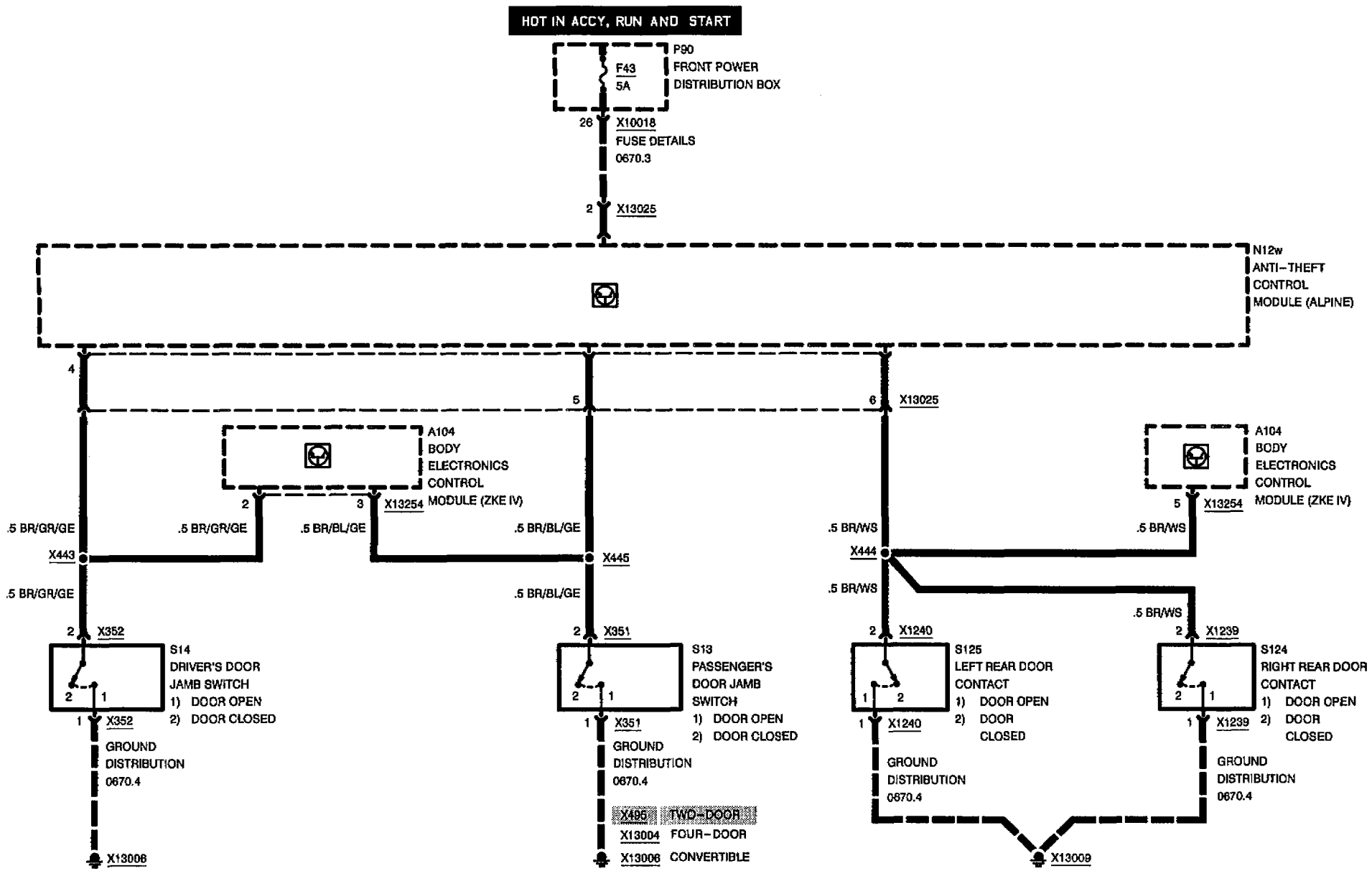


ANTI–THEFT SYSTEM (ALPINE)

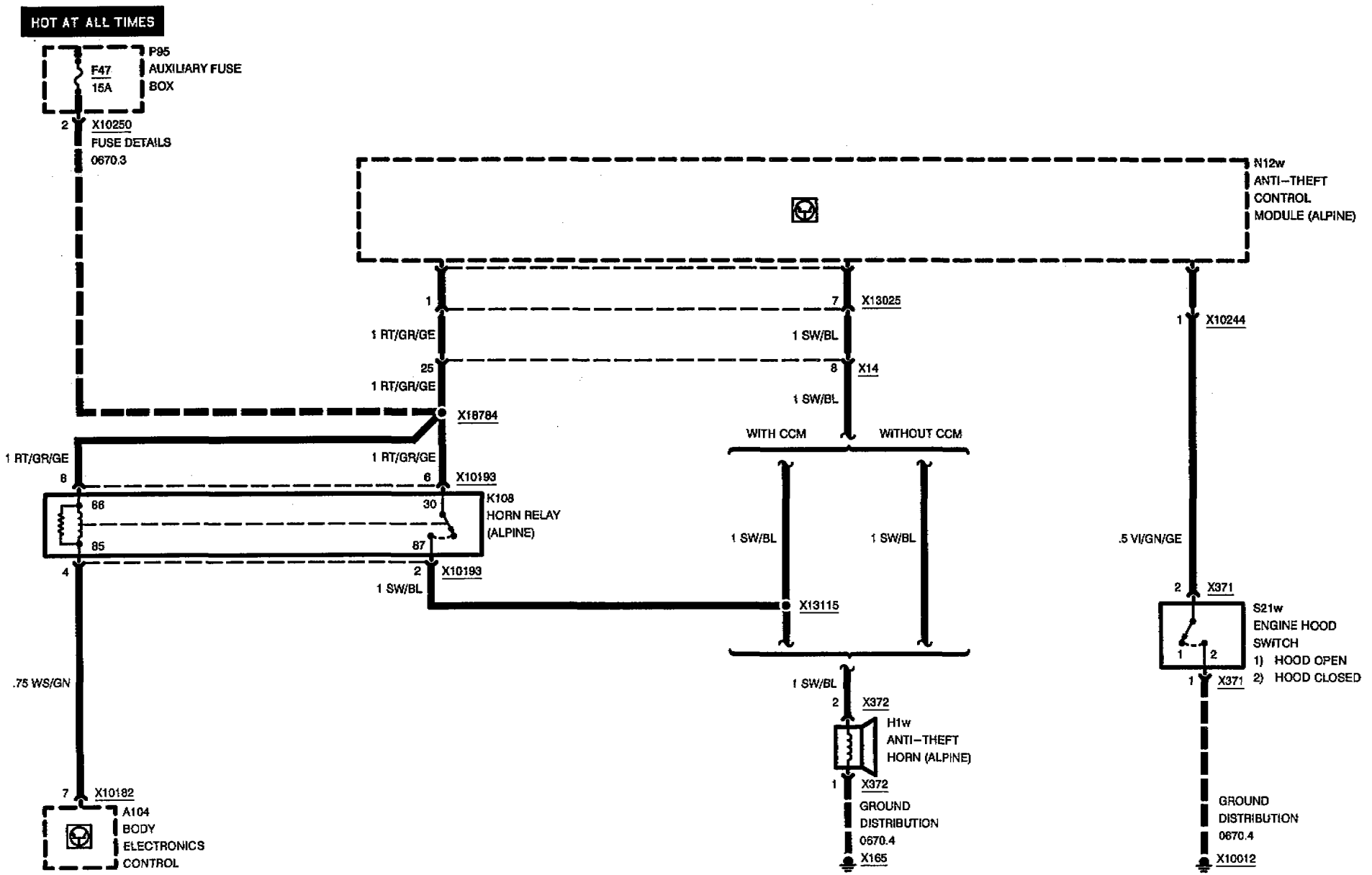


ANTI–THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

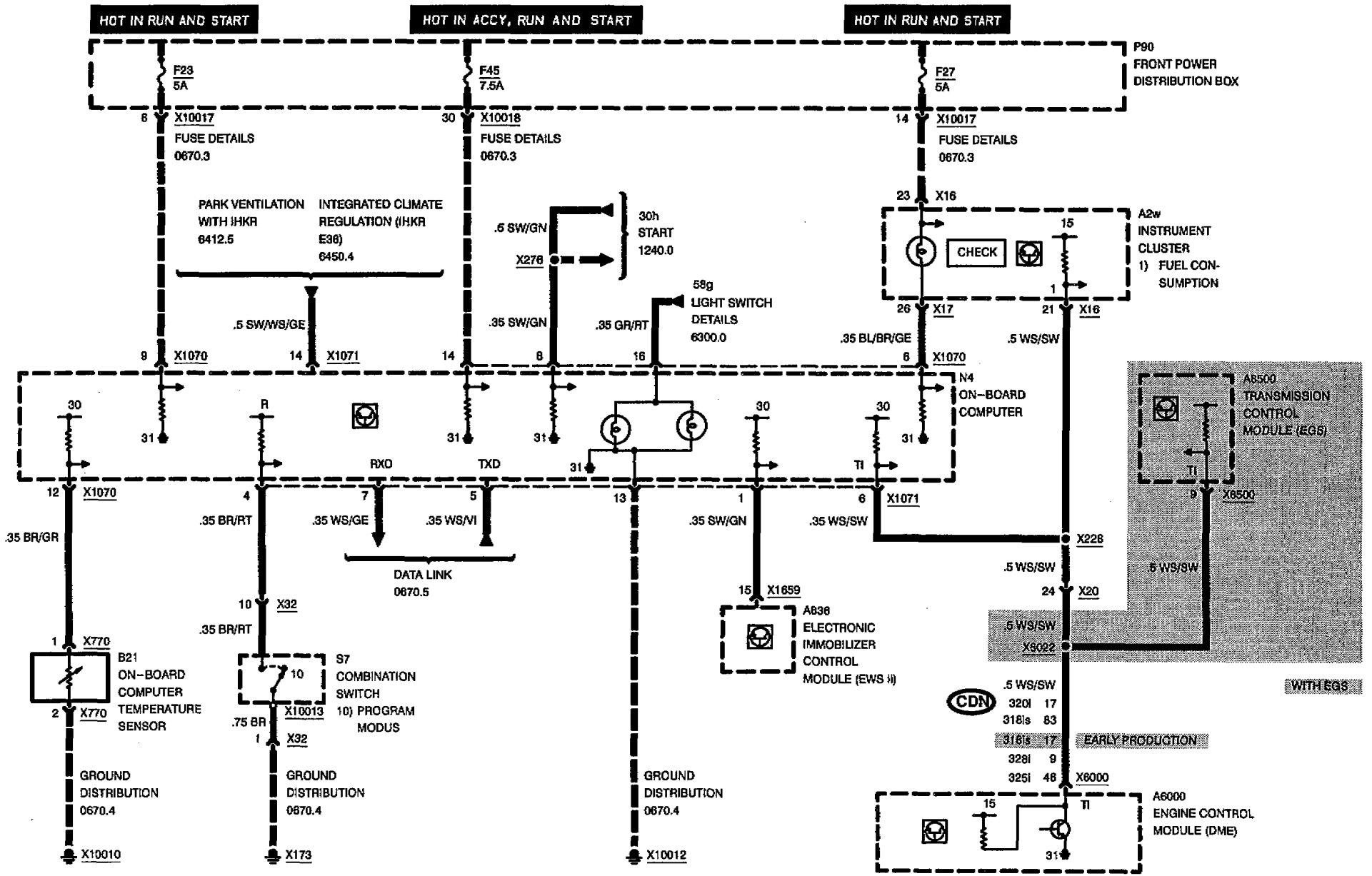


ANTI–THEFT SYSTEM (ALPINE)



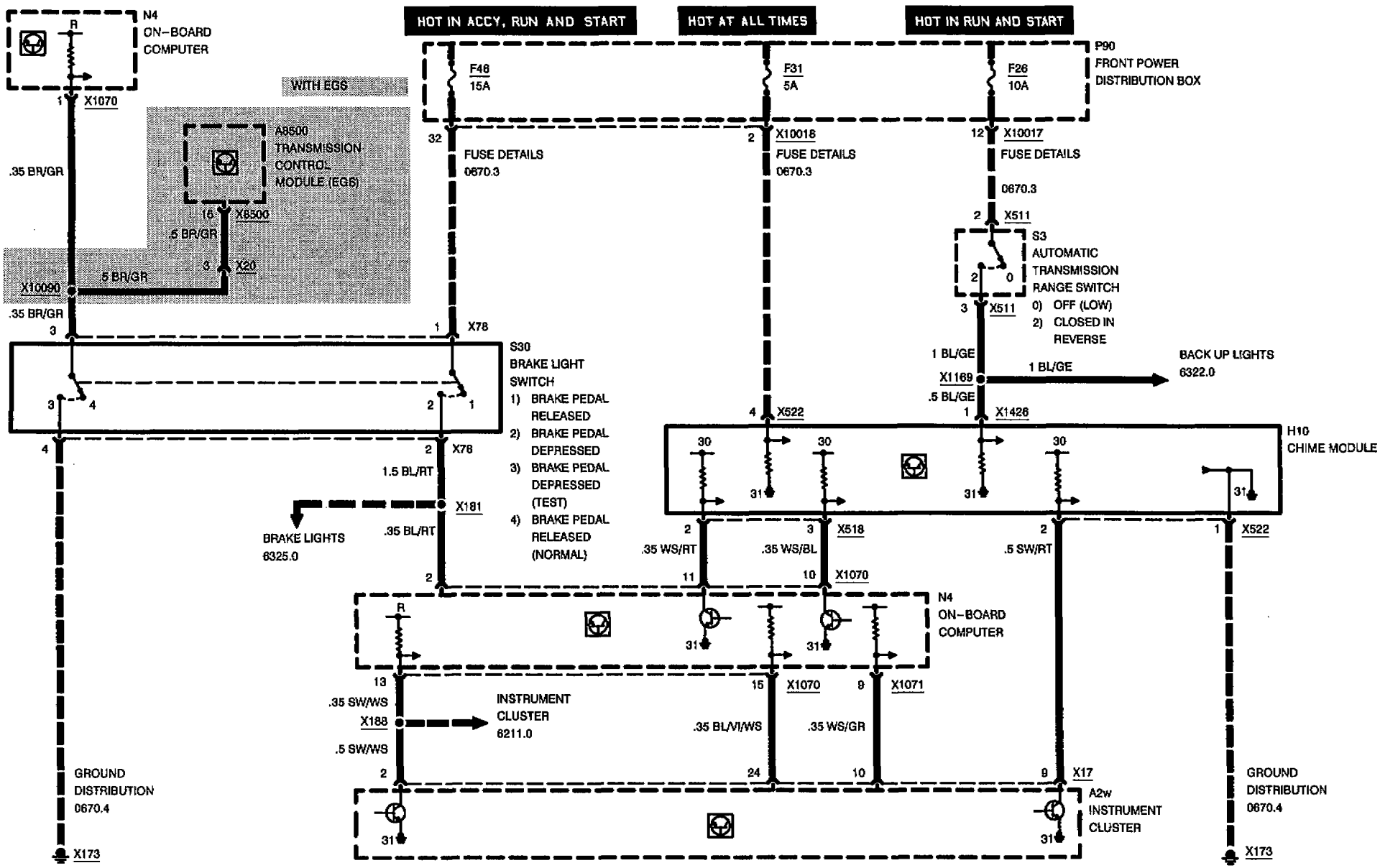
ON–BOARD COMPUTER (BC V)

POWER



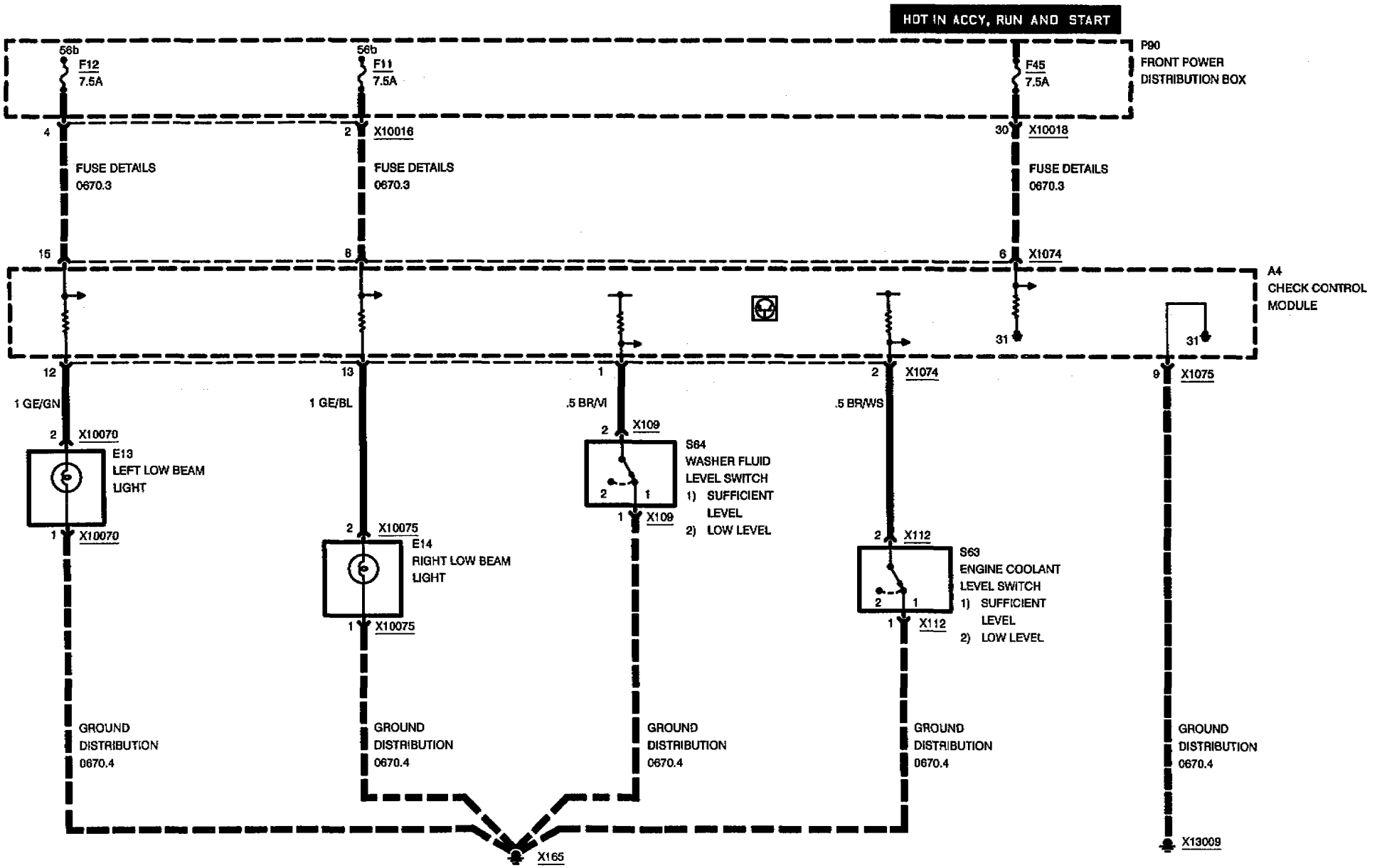
ON-BOARD COMPUTER (BC V)

CHIME, BRAKE LIGHT SWITCH



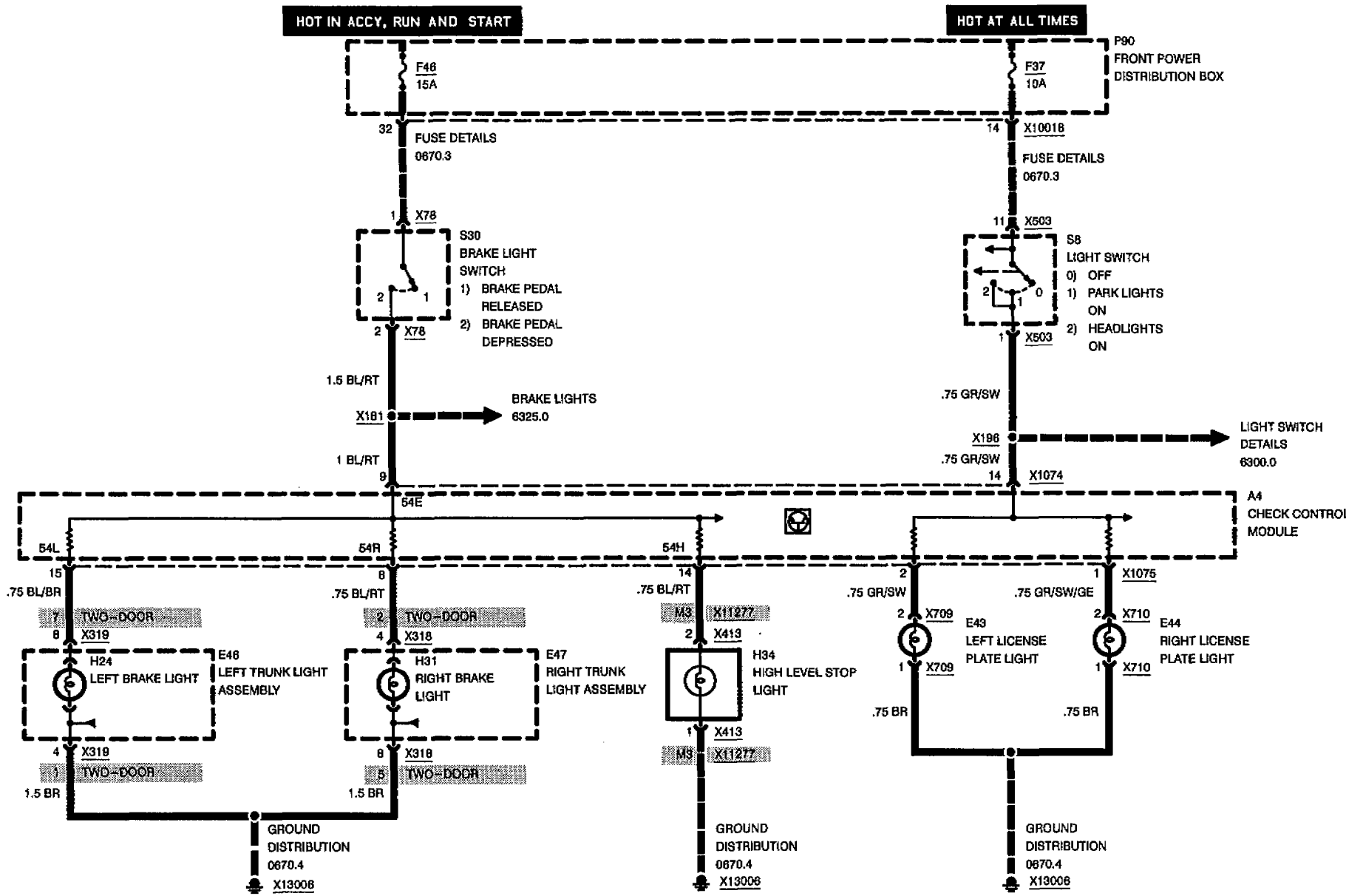
ON–BOARD COMPUTER (BC V)

CHECK CONTROL



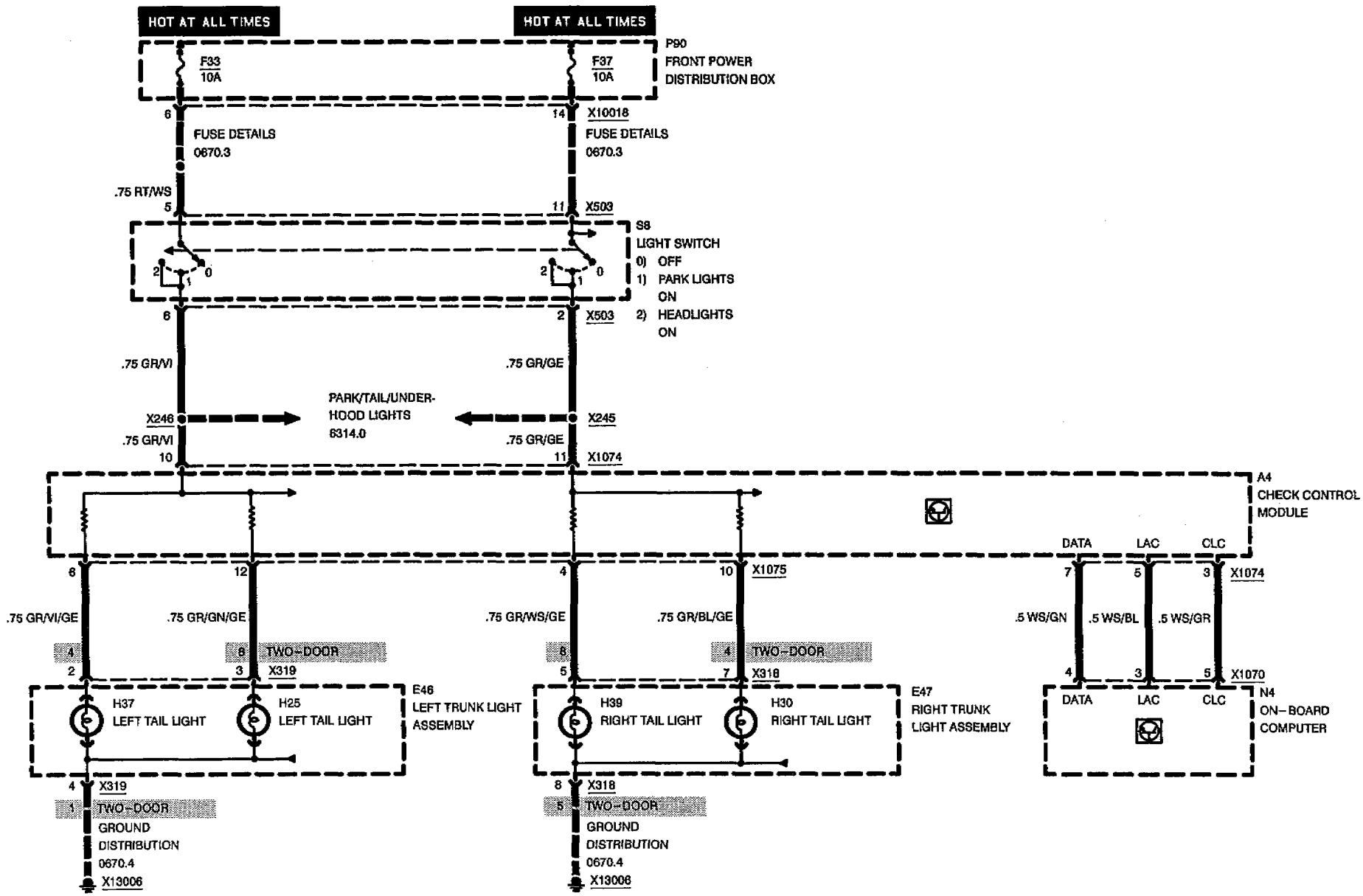
ON–BOARD COMPUTER (BC V)

CHECK CONTROL



ON-BOARD COMPUTER (BC V)

CHECK CONTROL



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A2w ..	INSTRUMENT CLUSTER	LH side of dash	28-3	
A4	CHECK CONTROL MODULE	below LH side of dash	00-3	
A5	RELAY MODULE	behind glove box		
A7	SLIP CONTROL MODULE (ABS)	RH side of dash behind glove box	01-2	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	RH side of dash behind glove box	01-2	
A12 ...	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	below rear seat	00-2	
A18 ...	HIFI AMPLIFIER	behind rear seats right (Convertible)	02-3	
A18 ...	HIFI AMPLIFIER	in LH side of luggage compartment	04-1	
A35 ...	ON-BOARD DISPLAY	center of dash center console		
A51 ...	WIPER/WASHER MODULE	behind glove box (glove box removed)	01-1	
A52 ...	SLIP CONTROL MODULE (ABS/ASC)	behind glove box (glove box removed)	01-3	
A56 ...	SUNROOF CONTROL ASSEMBLY	under roof center panel	04-2	
A64 ...	WIPER/WASHER MODULE (LOW II)	behind glove box (glove box removed)	01-1	
A87y ..	INTEGRATED CLIMATE REGULATION CONTROL MODULE	center console	03-2	
A96 ...	CONVERTIBLE TOP CONTROL MODULE	in lower LH C-pillar behind side panel	02-1	
A104 .	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	behind glove box (glove box removed)	01-1	
A113 .	SEAT OCCUPANCY DETECTOR	under RH front seat		
A115 .	AUTOMATIC CLIMATE CONTROL MODULE	behind center console	03-2	
A117 .	TELEPHONE EJECT BOX	center console		
A835 .	TRANSMITTER MODULE (EWS II)	RH side of steering column	37-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A836	ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)	RH side of dash behind glove box	37-2	
A5024	VARIABLE CAMSHAFT CONTROL MODULE (VANOS)	rear RH side of engine compartment	04-3	
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment	00-1	
A7000	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
B1	RIGHT FRONT SPEED SENSOR – ABS	on RH front wheel, above brake caliper	08-3	
B2	LEFT FRONT SPEED SENSOR – ABS	on LH front wheel, above brake caliper	08-3	
B3	RIGHT REAR SPEED SENSOR – ABS	on RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR – ABS	on LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	below LH side of rear seat	21-2	
B10	VEHICLE SPEED SENSOR	under rear of car	08-1	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	center console		
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	center console		
B13	OUTSIDE TEMPERATURE SENSOR	rear of engine compartment behind RH fresh air cowl	15-2	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell LH side of IHKR Plenum	28-1	
B16	LEFT FRONT BRAKE PAD SENSOR	on LH front wheel, above brake caliper	08-3	
B17	RIGHT REAR BRAKE PAD SENSOR	behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir (325i)	18-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B21 ..	ON-BOARD COMPUTER TEMPERATURE SENSOR	front RH side of engine compartment	20-1	
B25y .	FUEL TANK SENSOR II	top of fuel tank		
B72 ..	FUEL TANK PRESSURE SENSOR	RH rear wheel well behind trim panel	35-1	
B400 .	MICROPHONE	center of dash		
B5022	VARIABLE CAMSHAFT CONTROL SENSOR 1	front of engine compartment (M3)	12-2	
B5023	VARIABLE CAMSHAFT CONTROL SENSOR 2	RH front of engine (M3)	12-1	
B5028	HEATED OXYGEN SENSOR 2	front of engine compartment		
B6200	HEATED OXYGEN SENSOR	under center of car	15-3	
B6203	CRANKSHAFT POSITION/RPM SENSOR	under RH front of car rear of radiator	10-3	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine below intake manifold rear of radiator (325i)	11-1	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine (M3)	11-2	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine	36-2	
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine (near oil level stick)	13-3	
B6207	HOT FILM AIR MASS METER	LH side of engine		
B6208	CAMSHAFT ACTUATOR	front of engine		
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine		
B6217	HOT FILM AIR MASS METER	top front of engine		
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (325i)	11-1	
B6231	OIL PRESSURE SWITCH	LH side of engine (near oil level stick) (M3)	14-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (318is)	17-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325i)	11-3	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (M3)	12-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (318is)	17-2	
B6233	AIR FLOW SENSOR	LH side of engine compartment right of LH side shock tower		
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (325i)	11-1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine (M3)	12-1	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (318is)	17-2	
B6238	OIL TEMPERATURE SENSOR	LH side of engine (M3)	14-2	
B6240	KNOCK SENSOR	top front of engine		
B6241	CYL. 1–2 KNOCK SENSOR	top front of engine		
B6241w	CYL. 1–3 KNOCK SENSOR	top front of engine		
B6242	CYL. 3–4 KNOCK SENSOR	top front of engine	14-3	
B6242w	CYL. 4–6 KNOCK SENSOR	top front of engine		
B6243	CYL. 5–6 KNOCK SENSOR	top front of engine (M3)		
B6256	DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)	RH front of engine below intake manifold		
B9508	PRESSURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B62001	OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter		
B62002	OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
B62101	OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter		
B62102	OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
B62201	OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter		
B62202	OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
C101	CONTACT RING	top of steering column	24-2	
C900	SUPPRESSION FILTER	in upper RH C–pillar	33-2	
D100	DATA LINK CONNECTOR	rear RH side of engine compartment	05-1	
E9	REAR DEFOGGER I	in upper RH C–pillar	33-2	
E10	REAR DEFOGGER/ANTENNA	in rear window		
E11	LEFT HIGH BEAM LIGHT	near LH headlight assembly		
E12	RIGHT HIGH BEAM LIGHT	near RH headlight assembly		
E13	LEFT LOW BEAM LIGHT	near LH headlight assembly		
E14	RIGHT LOW BEAM LIGHT	near RH headlight assembly		
E15	LEFT PARK LIGHT	front of vehicle		
E19	RIGHT PARK LIGHT	front of vehicle		
E20	UNDERHOOD LIGHT	on underside of engine hood		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E25...	FRONT ASHTRAY LIGHT	center console	31-2	
E26...	LEFT FOG LIGHT	under LH front bumper	08-2	
E27...	RIGHT FOG LIGHT	under RH front bumper	08-2	
E28...	FRONT CIGAR LIGHTER	near gearshift lever		
E28y..	REAR ASHTRAY LIGHT	below center console	31-2	
E28y..	REAR ASHTRAY LIGHT	behind center console		
E29...	FRONT CIGAR LIGHTER LIGHT	center console		
E32...	TRUNK COMPARTMENT LIGHT	in luggage compartment		
E34...	FRONT DOME LIGHT/MAP READING ASSEMBLY	under roof center panel	04-2	
E35...	DRIVER'S MAKEUP MIRROR LIGHT	center of windshield header		
E36...	PASSENGER'S MAKEUP MIRROR LIGHT	center of windshield header	23-1	
E39...	LEFT REAR INTERIOR LIGHT	in upper LH C–pillar	33-1	
E40...	RIGHT REAR INTERIOR LIGHT	in upper RH C–pillar	33-2	
E42...	GLOVE BOX LIGHT	LH side of glove box	25-1	
E43...	LEFT LICENSE PLATE LIGHT	underside of trunk lid, near license plate	09-1	
E44...	RIGHT LICENSE PLATE LIGHT	underside of trunk lid, near license plate	09-1	
E45y..	CASSETTE BOX LIGHT	center of dash		
E46...	LEFT TRUNK LIGHT ASSEMBLY	in LH rear side of luggage compartment		
E47...	RIGHT TRUNK LIGHT ASSEMBLY	in RH rear side of luggage compartment	03-3	
E56...	DRIVER'S SEATBACK HEATER	in upper LH front seatback	23-3	
E57...	DRIVER'S SEAT HEATER	under LH front seat	23-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E58 ...	PASSENGER'S SEAT HEATER	underside of RH front seat		
E59 ...	PASSENGER'S SEATBACK HEATER	in upper RH front seatback		
E82 ...	TRANSMISSION POSITION INDICATOR LIGHT	center console		
E99 ...	HARD TOP CONNECTOR 1	in convertible top compartment		
E100y	HARD TOP CONNECTOR 2	in convertible top compartment		
E101 .	LEFT TRUNK COMPARTMENT LIGHT	in LH rear side of luggage compartment Convertible		
E102 .	RIGHT TRUNK COMPARTMENT LIGHT	in RH rear side of luggage compartment Convertible		
E104 .	THROTTLE FLAP HEATER	LH side of engine compartment		
G1 ...	BATTERY	rear RH side of engine compartment		
G5 ...	DRIVER'S AIR BAG GAS GENERATOR	behind steering wheel	24-2	
G6 ...	PASSENGER'S AIR BAG GAS GENERATOR	RH side of dash	27-2	
G6430	B+ JUMP START JUNCTION POINT	rear RH side of engine compartment back of RH side shock tower	05-1	
G6509	GENERATOR	front LH side of engine compartment	05-2	
H1w ..	ANTI–THEFT HORN (ALPINE)	front RH side of engine compartment		
H2 ...	LEFT HORN	front of engine compartment		
H3 ...	RIGHT HORN	front of engine compartment		
H4 ...	RIGHT FRONT TURN LIGHT	front of vehicle		
H5 ...	RIGHT REAR TURN LIGHT	RH side of body rear end		
H6 ...	LEFT REAR TURN LIGHT	LH side of body rear end		
H7 ...	LEFT FRONT TURN LIGHT	front of vehicle		
H8 ...	RIGHT FRONT AUXILIARY TURN LIGHT	front of vehicle		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0 8500.0
H9	LEFT FRONT AUXILIARY TURN LIGHT	front of vehicle	
H10	CHIME MODULE	below LH side of dash	
H24	LEFT BRAKE LIGHT	LH side of body rear end	
H25	LEFT TAIL LIGHT	LH side of body rear end	
H26	LEFT REAR FOG LIGHT	LEFT TRUNK LIGHT ASSEMBLY	
H27	LEFT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY	
H28	RIGHT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY	
H30	RIGHT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY	
H31	RIGHT BRAKE LIGHT	RIGHT TRUNK LIGHT ASSEMBLY	
H34	HIGH LEVEL STOP LIGHT	at back of rear window shelf	
H37	LEFT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY	
H38	TELEPHONE TRANSCEIVER	rear side of luggage compartment	
H41	LEFT FRONT SPEAKER	in lower LH A–pillar	
H42	LEFT MID–HIGH RANGE SPEAKER	in upper LH front door	
H43	RIGHT MID–HIGH RANGE SPEAKER	in upper RH front door	
H45	RIGHT REAR SPEAKER	under rear window shelf	
H46	LEFT REAR SPEAKER	under rear window shelf	
H50	RIGHT FRONT HIGH RANGE SPEAKER	in upper RH front door	
H51	RIGHT FRONT LOW RANGE SPEAKER	in lower RH A–pillar	
H52	RIGHT REAR LOW RANGE SPEAKER	under rear window shelf	
H53	RIGHT REAR HIGH RANGE SPEAKER	under rear window shelf	
H54	RIGHT FRONT MIDRANGE SPEAKER	in upper RH front door	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H55	LEFT FRONT MIDRANGE SPEAKER	in upper LH front door		
H56	LEFT REAR HIGH RANGE SPEAKER	under rear window shelf		
H57	LEFT REAR LOW RANGE SPEAKER	under rear window shelf		
H58	LEFT FRONT LOW RANGE SPEAKER	in lower LH A–pillar		
H59	LEFT FRONT HIGH RANGE SPEAKER	in upper LH front door		
K2	HORN RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K4	BLOWER RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K9	UNLOADER RELAY, TERMINAL 15	behind LH footwell trim	25-3	
K10	ABS RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K13	REAR DEFOGGER RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K16	HAZARD FLASHER RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K19	COMPRESSOR CONTROL RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K21	NORMAL SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K22	HIGH SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K46	HIGH BEAM LIGHT RELAY	LH side of dash behind instrument cluster	02-2	
K47	FRONT FOG LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K48	LOW BEAM LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K75	ABS PUMP MOTOR RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K99	REAR WINDOW BLOWER RELAY	behind glove box left	25-2	
K108	HORN RELAY (ALPINE)	behind glove box left	01-2	
K117	TRUNK LID RELAY	behind glove box right		
K125	ABS PUMP MOTOR RELAY, TIMED	rear LH side of engine compartment in Power Distribution Box	37-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K450 .	PARK VENTILATION RELAY	footwell, driver's side	02-2	
K5029	DOUBLE RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box	37-1	
K6301	CYL. 1–6 FUEL PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K6301	CYL. 1–6 FUEL PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	37-1	
K6301w	FUEL PUMP RELAY	rear LH side of engine compartment in Front Power Distribution Box		
K6303	OXYGEN SENSOR RELAY	Power Distribution Box rear LH side of engine compartment	19-2	
K6304	SECONDARY AIR PUMP RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	37-1	
K6307	FUEL PUMP/START IDENTIFICATION RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6314	DELAY RELAY	below LH side of dash		
M2 ...	FUEL PUMP	below RH side of rear seat	20-2	
M3 ...	WIPER MOTOR	rear of engine compartment below center of cowl	16-1	
M4 ...	WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	10-1	
M7 ...	HEADLIGHT/FOG LIGHT WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	10-2	
M9 ...	AUXILIARY FAN MOTOR	behind front grille behind trim panel	18-1	
M12 ..	DRIVER'S DOOR LOCK MOTOR	in upper LH front door behind trim panel		
M13 ..	PASSENGER'S DOOR LOCK MOTOR	in upper RH front door behind trim panel		
M14 ..	RIGHT REAR DOOR LOCK MOTOR	in upper RH rear door behind trim panel		
M15 ..	LEFT REAR DOOR LOCK MOTOR	in upper LH rear door behind trim panel		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M16 ..	GAS FILLER LOCK MOTOR	in RH rear side of luggage compartment	03-3	
M17 ..	TRUNK LOCK MOTOR	rear side of luggage compartment		
M20 ..	LEFT REAR WINDOW MOTOR	in lower LH rear door behind trim panel		
M21 ..	DRIVER'S WINDOW MOTOR	LH front door behind door panel	31-3	
M22 ..	RIGHT REAR WINDOW MOTOR	in lower RH rear door behind door panel		
M23 ..	PASSENGER'S WINDOW MOTOR	RH front door behind door panel	32-1	
M24 ..	SUNROOF MOTOR	center of windshield header		
M25 ..	CRUISE CONTROL ACTUATOR (TEMPOMAT)	front LH side of engine compartment	18-2	
M30 ..	BLOWER MOTOR	rear of engine compartment behind RH fresh air cowl	15-2	
M34 ..	DASH VENT MIXING FLAP MOTOR	below RH side of dash center console right	29-3	
M35 ..	DEFROSTER FLAP MOTOR	RH side of IHKA Plenum		
M36 ..	FRESH AIR FLAP MOTOR	below LH side of dash RH side of steering column	29-2	
M40 ..	RECIRCULATION FLAP MOTOR	below LH side of dash RH side of steering column	29-2	
M43 ..	CONVERTIBLE TOP STORAGE LID LOCK MOTOR	in convertible top compartment left	22-1	
M44 ..	REGULATION FLAP MOTOR	RH side of IHKA Plenum		
M46 ..	REAR RECIRCULATION FLAP MOTOR	RH side of IHKA Plenum		
M50 ..	DRIVER'S SEAT CUSHION TILT MOTOR	under LH front seat	23-3	
M51 ..	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat	23-3	
M52 ..	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat	23-3	
M53 ..	DRIVER'S SEATBACK RECLINER MOTOR	under LH front seat	23-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M58 ..	PASSENGER'S SEATBACK RECLINER MOTOR	under RH front seat		
M59 ..	PASSENGER'S SEAT HEIGHT MOTOR	under RH front seat		
M60 ..	PASSENGER'S SEAT MOVEMENT MOTOR	under RH front seat		
M61 ..	PASSENGER'S SEAT CUSHION TILT MOTOR	under RH front seat		
M93 ..	AUXILIARY THROTTLE POSITION MOTOR (ADS)	front of engine compartment		
M98 ..	LEFT REAR WINDOW MOTOR	left from LH rear seat behind trim panel	22-2	
M99 ..	RIGHT REAR WINDOW MOTOR	RH side of RH rear seat behind trim panel	22-2	
M100 .	CONVERTIBLE TOP STORAGE LID MOTOR	in LH side of luggage compartment	34-1	
M101 .	CONVERTIBLE TOP MOTOR	in LH side of luggage compartment	34-3	
M103 .	LH POP OUT WINDOW MOTOR	in lower LH C–pillar		
M104 .	RH POP OUT WINDOW MOTOR	in lower RH C–pillar		
M105 .	REAR WINDOW BLOWER	behind rear seats	21-3	
M107 .	GLOVE BOX LOCK MOTOR	RH side of dash behind glove box		
M132 .	WINDSCREEN COWL PANEL LOCK MOTOR	front cover	38-2	
M6133	AIR PUMP	front of engine compartment		
M6510	STARTER	rear LH side of engine compartment		
N2 ...	FINAL STAGE UNIT	behind LH side of dash		
N3 ...	DIMMER	LH side of dash	26-1	
N4 ...	ON–BOARD COMPUTER	center console	03-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
N8 ...	ANTENNA AMPLIFIER AM/FM	In upper LH C–pillar	33-1	
N8 ...	ANTENNA AMPLIFIER AM/FM	in LH side of TRUNK (CONVERTIBLE)		
N10 ..	MULTI–FUNCTION CLOCK	center console		
N12w .	ANTI–THEFT CONTROL MODULE (ALPINE)	behind glove box (glove box removed)	01-3	
N17 ..	CRASH CONTROL MODULE	footwell, driver's side	02-2	
N22 ..	CD CHANGER	in LH forward side of luggage compartment	03-3	
N24 ..	ROLLOVER SENSOR	behind rear seats left	02-1	
N404 .	DIVERSITY	in upper LH C–pillar		
N444 .	FM AMPLIFIER HLO	in upper RH C–pillar		
P90 ...	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment	05-3	
P95 ...	AUXILIARY FUSE BOX	footwell, driver's side		
P97 ...	AUXILIARY FUSE BOX	LH side of dash behind instrument cluster	02-2	
R11 ..	BLOWER RESISTORS	behind center of dashboard left	29-1	
R6240	RESISTOR	front of engine compartment		
R6252	THROTTLE POSITION SENSOR	RH front of engine (M3)	11-2	
R6252	THROTTLE POSITION SENSOR	LH side of engine (near oil level stick) (320i–325i)	13-3	
R6252	THROTTLE POSITION SENSOR	LH side of engine compartment (318is)	17-3	
R8554	RESISTOR	front of engine compartment		
S2	IGNITION SWITCH	LH side of dash	24-3	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console near gearshift lever	30-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S4	HORN SWITCH	top of steering column	24-2	
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	center console	30-2	
S7	COMBINATION SWITCH	LH side of steering column	24-3	
S8	LIGHT SWITCH	LH side of dash	26-1	
S10	FOG LIGHT SWITCH	LH side of dash		
S13	PASSENGER'S DOOR JAMB SWITCH	rear RH door pillar	33-3	
S14	DRIVER'S DOOR JAMB SWITCH	LH rear door jamb	33-3	
S17	MIRROR CONTROL SWITCH	in upper LH front door		
S18	HAZARD SWITCH	center console near gearshift lever	30-3	
S19	UNDERHOOD LIGHT SWITCH	near RH headlight assembly		
S21w	ENGINE HOOD SWITCH	front RH side of engine compartment on washer fluid reservoir	10-2	
S27	INERTIA SWITCH	in lower RH A–pillar		
S28	CRUISE CONTROL SWITCH	LH side of dash RH side of steering column above	24-3	
S29	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-3	
S30	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	
S31	PARK BRAKE SWITCH	center console on rear of park brake lever	31-2	
S32	CLUTCH SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim	26-3	
S36	TEMPERATURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	
S36y	DOUBLE TEMPERATURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	
S38	SUNROOF SWITCH	roof		
S40y	CENTRAL POWER WINDOW SWITCH	center console		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S41 . . .	LEFT REAR WINDOW SWITCH	in lower LH rear door behind trim panel		
S42 . . .	RIGHT REAR WINDOW SWITCH	in lower RH rear door behind trim panel		
S51 . . .	DRIVER'S SEAT, SEAT CONTROL SWITCH .	LH side of driver's seat		
S53 . . .	DRIVER'S SEAT, SEAT HEATER SWITCH . . .	center console near gearshift lever	30-2	
S54 . . .	PASSENGER'S SEAT, SEAT HEATER SWITCH	center console near gearshift lever	30-1	
S56 . . .	PASSENGER'S SEAT, SEAT CONTROL SWITCH	RH front seat		
S58 . . .	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		
S59 . . .	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S63 . . .	ENGINE COOLANT LEVEL SWITCH	front RH side of engine compartment	18-1	
S61y .	TRUNK LIGHT SWITCH	underside of trunk lid left	34-2	
S64 . . .	WASHER FLUID LEVEL SWITCH	front RH side of engine compartment on washer fluid reservoir	10-1	
S75 . . .	BLOWER SWITCH	center of dash		
S77 . . .	DRIVER'S MAKEUP MIRROR SWITCH	above LH sun visor		
S78 . . .	PASSENGER'S MAKEUP MIRROR SWITCH	above RH sun visor	23-1	
S82 . . .	REAR FOG LIGHT SWITCH	LH side of dash		
S123 .	ABS PEDAL TRAVEL SENSOR	near brake master cylinder	18-3	
S124 .	RIGHT REAR DOOR CONTACT	in lower RH C–pillar	33-3	
S125 .	LEFT REAR DOOR CONTACT	in lower LH C–pillar	33-3	
S126y	DRIVER'S POWER WINDOW SWITCH	center console near gearshift lever	31-1	
S127y	PASSENGER'S POWER WINDOW SWITCH	center console near gearshift lever	31-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	center console		
S128z	LH REAR POWER WINDOW SWITCH	center console		
S129y	RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	center console		
S129z	RH REAR POWER WINDOW SWITCH	center console		
S130 .	CHILD PROTECTION CONTROL (CONSOLE)	center console		
S134y	IHKR CONTROL PANEL	center of dash		
S143 .	CONVERTIBLE TOP ACTUATING SWITCH .	center console		
S164 .	CONVERTIBLE TOP END–POSITION MICRO SWITCH	at convertible top linkage		
S165 .	CONVERTIBLE TOP POSITION MICRO SWITCH	at convertible top linkage		
S182 .	LH POP OUT WINDOW SWITCH	center console		
S183 .	RH POP OUT WINDOW SWITCH	center console		
S196 .	REAR WINDOW BLOWER MICRO SWITCH .	in convertible top compartment left	22-3	
S213 .	TRUNK LID MICRO SWITCH	underside of trunk lid		
S214 .	CONVERTIBLE TOP STORAGE LID MICRO SWITCH	at convertible top linkage		
S231 .	WINDSCREEN COWL PANEL LOCK MICRO-SWITCH	front cover	38-2	
S303 .	SWITCH SPATIAL SOUND	center console		
S8503	PROGRAM SWITCH	center console		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S8507	KICK–DOWN SWITCH	LH footwell		
S8511	REVERSING LIGHT SWITCH	under front of car LH side of transmission		
T6151	CYL. 1 IGNITION COIL	top RH side of engine	13-1	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6152	CYL. 2 IGNITION COIL	top RH side of engine	13-1	
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6153	CYL. 3 IGNITION COIL	top RH side of engine	13-1	
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6154	CYL. 4 IGNITION COIL	top RH side of engine	13-1	
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6155	CYL. 5 IGNITION COIL	top RH side of engine	13-1	
T6156	CYL. 6 IGNITION COIL	top RH side of engine	13-1	
U4 ...	TELEPHONE HANDSET	below front of console		
V4	DAYTIME RUNNING LIGHTS CODING DIODE	LH side of dash		
V7	ASC DIODE	top LH side of engine compartment in Front Power Distribution Box		
V9501	UNCOUPLING DIODE (KL61)	front of engine compartment		
X0	B+ JUNCTION POINT	rear LH side of engine compartment	05-3	
X2	BATTERY B+ START POINT	rear LH side of engine compartment	05-3	
X9	B+ JUNCTION POINT	rear LH side of engine compartment	05-3	
X13 ...	(30 PINS, BLACK)	behind LH footwell kickpanel		00-4
X14 ...	(30 PINS, WHITE)	behind LH footwell kickpanel		00-4

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X16 ...	(26 PINS, WHITE)	LH side of dash rear of instrument cluster, A2	28-3	00-2
X17 ...	(26 PINS, BLUE)	LH side of dash rear of instrument cluster, A2	28-3	00-2
X20 ...	(25 PINS, BLACK)	rear LH side of engine compartment	18-3	05-2
X22 ...	(26 PINS, BLUE)	RH side of dash behind glove box	01-2	00-2
X31 ...	(12 PINS, BLACK)	rear LH side of engine compartment back of LH side shock tower	16-2	01-4
X32 ...	(12 PINS, WHITE)	LH footwell underside of steering column	27-3	02-6
X33 ...	(12 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	02-6
X35 ...	(12 PINS, NATURAL)	below LH side of dash RH side of steering column	27-3	02-6
X43 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X45 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X52 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X53 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X54 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X55 ...	(9 PINS, BLACK)	behind LH footwell speaker grille		03-6
X56 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X58 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X63 ...	(9 PINS, BLACK)	behind LH footwell speaker grille		03-6
X64 ...	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X65 ...	(9 PINS, BLACK)	below LH side of dash		03-6
X69 ...	(25 PINS, GRAY)	rear LH side of engine compartment (325i)	18-3	05-2
X70 ...	(8 PINS, BLACK)	front LH side of engine compartment	18-2	02-2
X72 ...	(6 PINS, BLACK)	LATE PRODUCTION footwell, driver's side		04-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X74	(30 PINS, ORANGE)	below rear seat	00-2	12-2
X78	(4 PINS, BLACK)	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	03-3
X82	(3 PINS, BLACK)	front of engine compartment on auxiliary fan	18-1	08-1
X83	(8 PINS, BLACK)	RH side of dash behind glove box		03-6
X85	(3 PINS, BLACK)	rear LH side of engine compartment	16-2	06-3
X87	(3 PINS, BLACK)	front RH side of engine compartment RH top of radiator	09-3	06-3
X107	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir	10-1	
X109	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	
X111	(2 PINS, BLACK)	rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir	18-3	
X112	(2 PINS, BLACK)	front RH side of engine compartment	18-1	
X113	(2 PINS, GRAY)	above RH front wheel well behind RH front wheel	09-2	
X114	(2 PINS, GRAY)	above LH front wheel well behind LH front wheel	09-2	
X116	(2 PINS, BLACK)	LH footwell near brake pedal	26-3	
X118	(2 PINS, BLACK)	above LH front wheel well behind LH front wheel	09-2	
X120	(2 PINS, BLACK)	near LH front wheel well on steering–gear box		
X121	(2 PINS, WHITE)	LH footwell on clutch pedal	26-3	
X123	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir	10-2	
X128	(2 PINS, BLACK)	front RH side of engine compartment		
X132	(2 PINS, BLACK)	front of engine compartment		
X133	(2 PINS, BLACK)	front of engine compartment		
X137	(2 PINS, BLACK)	front LH side of engine compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X142	(3 PINS, GRAY)	under rear of car LH side of on differential		02-1
X143	(3 PINS, GRAY)	under rear of car LH side of on differential	08-1	02-1
X161	(1 PIN, WHITE)	near RH headlight assembly		
X163	(3 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir near RH headlight assembly	10-1	06-3
X165	GROUND	front LH side of engine compartment	06-3	
X173	GROUND	below LH side of dash	07-1	
X209	(12 PINS, BLACK)	LH footwell underside of steering column		
X256	(26 PINS, BLACK)	ahead of RH front door in lower RH A–pillar	32-1	04-1
X257	(26 PINS, BLACK)	ahead of LH front door in lower LH A–pillar		04-1
X271	(12 PINS, BLACK)	LH side of dash rear of instrument cluster, A2	28-3	01-3
X272	(2 PINS, BLACK)	under roof center panel		
X273	(12 PINS, BLACK)	in lower LH B–pillar	21-1	01-2
X274	(12 PINS, BLACK)	in lower RH B–pillar	21-1	01-2
X275	(4 PINS, WHITE)	under LH front seat under carpet	23-2	03-3
X279	(4 PINS, WHITE)	under RH front seat	32-3	03-3
X285	(15 PINS, BLUE)	behind glove box	25-2	00-3
X292	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X295	(8 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	03-5
X311	(3 PINS, BLACK)	underside of trunk lid left	34-2	01-1
X312	(2 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	01-6
X315	(2 PINS, BLACK)	underside of trunk lid left	34-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X316	(6 PINS, WHITE)	center console near gearshift lever	31-1	05-3
X317	(6 PINS, WHITE)	center console near gearshift lever	30-3	07-1
X318	(8 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	01-4
X319	(8 PINS, BLACK)	in LH rear side of luggage compartment behind LH rear light assembly		01-4
X320	(6 PINS, WHITE)	center console near gearshift lever	30-3	07-1
X322	(6 PINS, BLACK)	LH footwell	28-2	04-2
X324	(6 PINS, WHITE)	center console near gearshift lever	31-1	05-3
X333	(4 PINS, BLACK)	rear of engine compartment below center of cowl	16-1	07-2
X351	(2 PINS, BLACK)	in upper RH B–pillar		
X352	(3 PINS, BLACK)	in upper LH B–pillar	38-3	01-1
X355	(2 PINS, BLACK)	in upper RH C–pillar	33-2	
X356	(2 PINS, BLACK)	in upper LH C–pillar	33-1	
X371	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-2	
X372	(2 PINS, GRAY)	rear RH side of engine compartment back of RH side shock tower		
X379	(1 PIN, NATURAL)	in upper LH C–pillar	33-1	
X380	(1 PIN, NATURAL)	in upper RH C–pillar	33-2	
X381	(3 PINS, BLACK)	under roof center panel		01-1
X382	(3 PINS, BLACK)	above RH sun visor	23-1	01-1
X383	(2 PINS, BLACK)	under rear of car LH side of on differential	08-1	
X386	(2 PINS, BLACK)	REAR ASHTRAY LIGHT		
X388	(2 PINS, BLACK)	in lower RH A–pillar		
X389	(2 PINS, GRAY)	rear LH side of engine compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X390	(2 PINS, BLACK)	RH side of dash behind glove box		
X401	(1 PIN, BLACK)	above LH sun visor		
X402	(1 PIN, BLACK)	above RH sun visor	23-1	
X413	(2 PINS, BLACK)	at back of rear window shelf		
X423	(1 PIN, NATURAL)	below center console on rear of park brake lever		
X424	(1 PIN, BROWN)	in upper LH C–pillar	33-1	
X494	GROUND	center console near gearshift lever	07-2	
X495	GROUND	behind RH footwell trim above	07-3	
X498	GROUND	center console near gearshift lever	07-2	
X503	(12 PINS, WHITE)	below LH side of dash	26-1	01-6
X504	(4 PINS, WHITE)	center console	26-1	03-3
X509	(9 PINS, BLACK)	behind glove box (glove box removed)		03-6
X510	(9 PINS, BLACK)	behind glove box (glove box removed)		03-6
X511	(8 PINS, BLACK)	center console near gearshift lever	30-3	01-4
X516	(5 PINS, BLACK)	center console	30-3	03-2
X517	(4 PINS, BLACK)	below LH side of dash	26-1	03-3
X518	(4 PINS, BLACK)	LH footwell	28-2	03-3
X521	(6 PINS, BLUE)	center console		04-5
X522	(3 PINS, WHITE)	LH footwell	28-2	03-6
X523	(3 PINS, NATURAL)	LH side of dash		03-6
X531	(1 PIN, NATURAL)	center console near gearshift lever	30-2	
X532	(2 PINS, BLACK)	center console near gearshift lever	30-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X537	(2 PINS, BLACK)	in upper LH front door behind door panel	31-3	01-1
X538	(2 PINS, BLACK)	RH front door behind door panel	32-1	
X540	(2 PINS, BLACK)	LH side of glove box	25-1	
X541	(1 PIN, NATURAL)	LH side of glove box	25-1	
X542	(2 PINS, BLACK)	LH side of glove box	25-1	
X603	(6 PINS, ---)	center console		05-1
X604	(6 PINS, ---)	RH front seat		05-1
X605	(12 PINS, BLACK)	below RH side of rear seat Convertible	02-3	11-3
X605	(12 PINS, BLACK)	in LH side of luggage compartment	04-1	11-3
X606	(26 PINS, BLACK)	below RH side of rear seat Convertible	02-3	00-2
X606	(26 PINS, BLACK)	in LH side of luggage compartment	04-1	00-2
X607	(9 PINS, BLACK)	below LH side of dash		03-6
X623	(4 PINS, BLACK)	in upper LH front door behind door panel		10-1
X624	(4 PINS, BLACK)	in upper RH front door behind door panel	32-1	10-1
X625	(6 PINS, WHITE)	LH front door	31-3	05-1
X638	(2 PINS, BLACK)	below RH side of rear seat	20-2	
X641	(6 PINS, BLACK)	RH front door behind door panel		08-2
X644	(6 PINS, BLACK)	in lower LH rear door		05-3
X645	(6 PINS, BLUE)	in lower LH rear door		06-2
X646	(6 PINS, BLACK)	in lower RH rear door behind trim panel		06-2
X647	(6 PINS, BLUE)	in lower RH rear door behind trim panel		08-4
X651	(6 PINS, YELLOW)	center console	30-2	05-3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X658	(6 PINS, YELLOW)	center console	30-1	05-3
X660	(4 PINS, BLACK)	LH front door in door at key lock assembly		05-4
X662	(6 PINS, GRAY)	below LH side of dash RH side of steering column	29-2	04-5
X663	(6 PINS, GRAY)	below RH side of dash		10-1
X669	(6 PINS, GRAY)	below RH side of dash center console right	29-3	04-5
X671	(5 PINS, BLACK)	behind LH side of dash		12-1
X679	(2 PINS, WHITE)	below RH side of rear seat	20-2	
X692	(3 PINS, BLACK)	center console		02-1
X695	(10 PINS, BLACK)	below center console		02-4
X700	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X701	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X706	(2 PINS, BLACK)	center console	31-2	
X709	(2 PINS, BLACK)	underside of trunk lid, near license plate	09-1	
X710	(2 PINS, BLACK)	underside of trunk lid, near license plate	09-1	
X711	(1 PIN, NATURAL)	underside of trunk lid left	34-2	
X712	(1 PIN, NATURAL)	underside of trunk lid left		
X713	(2 PINS, BLACK)	under rear of car LH side of on differential	08-1	
X714	(2 PINS, GRAY)	in lower LH rear door behind trim panel		
X720	(2 PINS, GRAY)	in lower RH rear door behind trim panel		
X726	(2 PINS, ---)	under LH front seat	23-2	
X727	(2 PINS, ---)	under LH front seat	23-2	
X728	(2 PINS, ---)	under LH front seat	23-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X729	(2 PINS, ---)	under LH front seat	23-2	
X732	(4 PINS, BLACK)	under LH front seat under carpet		03-3
X733	(4 PINS, BLACK)	under LH front seat under carpet		03-3
X734	(2 PINS, ---)	under RH front seat		
X735	(2 PINS, ---)	under RH front seat		
X736	(2 PINS, ---)	under RH front seat		
X737	(2 PINS, ---)	under RH front seat		
X740	(4 PINS, BLACK)	under RH front seat	24-1	03-3
X741	(4 PINS, BLACK)	under RH front seat	24-1	03-3
X742	(2 PINS, YELLOW)	RH front door in door at key lock assembly		
X744	(2 PINS, GRAY)	RH front door behind door panel	32-1	
X746	(3 PINS, BLACK)	RH front door behind door panel	32-1	01-1
X747	(2 PINS, YELLOW)	LH front door in door at key lock assembly	32-2	
X749	(4 PINS, BLACK)	in upper LH front door	31-3	12-3
X751	(2 PINS, WHITE)	LH front door in door at key lock assembly	32-2	
X752	(2 PINS, GRAY)	LH front door in door at key lock assembly	32-2	
X768	(2 PINS, WHITE)	in the engine compartment near LH headlight assembly	08-2	
X768	(2 PINS, WHITE)	in the engine compartment near LH headlight assembly		
X769	(2 PINS, WHITE)	in the engine compartment near RH headlight assembly	08-2	
X770	(2 PINS, YELLOW)	front RH side of engine compartment	20-1	
X771	(2 PINS, BLACK)	RH side of LH footwell LH side of IHKR Plenum	28-1	
X772	(2 PINS, WHITE)	center console		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X773	(2 PINS, WHITE)	center console		
X774	(1 PIN, GRAY)	rear of engine compartment behind RH fresh air cowl		
X778	(3 PINS, BLACK)	in LH front seat belt buckle	23-2	01-1
X779	(2 PINS, BLACK)	LH side of glove box	25-1	
X782	(3 PINS, ORANGE)	below RH side of dash	27-2	13-1
X783	(3 PINS, BLACK)	underside of steering column		13-1
X786	(2 PINS, BLACK)	UNDERHOOD LIGHT		
X816	(2 PINS, BLACK)	rear of engine compartment behind RH fresh air cowl		
X817	(1 PIN, BLACK)	rear of engine compartment behind RH fresh air cowl		
X904	(4 PINS, GRAY)	LH side of IHKR Plenum	29-1	03-3
X905	(5 PINS, BLACK)	behind center of dashboard		
X998	(4 PINS, BLACK)	below center console		03-1
X999	(4 PINS, BLACK)	behind center of dashboard LH side of IHKR Plenum		03-3
X1001	(4 PINS, BLACK)	RIGHT REAR SPEAKER		03-3
X1002	(4 PINS, ---)	LEFT REAR SPEAKER		03-3
X1014	(1 PIN, BLACK)	center console near gearshift lever	30-2	
X1070	(18 PINS, BLACK)	center console	03-1	01-5
X1071	(18 PINS, NATURAL)	center console	03-1	01-5
X1074	(15 PINS, WHITE)	below LH side of dash	00-3	00-3
X1075	(15 PINS, BLACK)	below LH side of dash	00-3	00-3
X1161	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X1162	(2 PINS, BLACK)	near brake master cylinder	18-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1165	GROUND	below LH side of dash	07-1	
X1166	GROUND	behind RH footwell trim above	07-3	
X1170	(42 PINS, BLACK)	behind glove box (glove box removed)	01-2	12-4
X1171	(55 PINS, BLACK)	behind glove box (glove box removed)	01-3	00-1
X1176	(25 PINS, BLACK)	LH side of engine compartment		05-3
X1178	(2 PINS, WHITE)	below center console LH side of gearshift selector		
X1193	(3 PINS, BLACK)	center console RH side of gearshift selector		01-1
X1213	(2 PINS, BLACK)	center console	31-2	
X1239	(2 PINS, BLACK)	RH C–Pillar		
X1240	(2 PINS, BLACK)	LH C–Pillar		
X1241	(2 PINS, NATURAL)	below LH side of rear seat	21-2	
X1243	(6 PINS, BLACK)	center console near gearshift lever	31-1	04-2
X1245	(1 PIN, BLACK)	above LH sun visor		
X1246	(1 PIN, BLACK)	above RH sun visor		
X1380	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X1381	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X1426	(1 PIN, BROWN)	rear RH side of engine compartment in E–Box		
X1441	GROUND	below rear seat	00-2	
X1527	(26 PINS, BLUE)	behind center console	03-2	00-2
X1659	(15 PINS, YELLOW)	RH side of dash behind glove box	37-2	00-3
X1660	(3 PINS, WHITE)	RH side of steering column	37-3	01-1
X1890	(3 PINS, BLACK)	behind front grille behind trim panel		01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1892	(3 PINS, WHITE)	in LH rear side of luggage compartment CD CHANGER	03-3	02-1
X5013	(2 PINS, BLACK)	LH side of engine (M3)	14-2	
X5013	(2 PINS, BLACK)	front of engine compartment		
X5020	(2 PINS, BLACK)	front of engine compartment (M3)		
X5021	(2 PINS, BLACK)	front of engine compartment		
X5022	(3 PINS, BLACK)	front of engine compartment (M3)	12-2	07-3
X5023	(3 PINS, BLACK)	RH front of engine (M3)	12-1	07-3
X5023	(3 PINS, BLACK)	front of engine compartment		07-3
X5024	(15 PINS, WHITE)	rear RH side of engine compartment	04-3	00-3
X5028	(4 PINS, BLACK)	lower LH side of engine (M3)		03-4
X5029	(10 PINS, BLACK)	front LH side of engine compartment in Front Power Distribution Box		09-1
X5032	(15 PINS, BLACK)	front of engine compartment		00-3
X6000	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X6002	(20 PINS, BLACK)	rear RH side of engine compartment	05-1	04-4
X6091	(30 PINS, BLACK)	rear of engine compartment on engine bulkhead		13-4
X6101	(2 PINS, BLACK)	on throttle body (M3)	11-2	
X6101	(2 PINS, BLACK)	top center of engine		
X6102	(2 PINS, BLACK)	top center of engine		
X6103	(2 PINS, BLACK)	top center of engine		
X6104	(2 PINS, BLACK)	top center of engine		
X6105	(2 PINS, BLACK)	top center of engine		
X6106	(2 PINS, BLACK)	top center of engine		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6120	(2 PINS, BLACK)	LH side of engine compartment right of LH side shock tower	15-1	
X6120	(2 PINS, BLACK)	LH side of engine compartment right of LH side shock tower	20-3	
X6130	(3 PINS, GRAY)	RH front of engine below intake manifold (325i)	11-3	13-2
X6130	(2 PINS, BLACK)	rear LH side of engine compartment (M3)	14-3	
X6131	(2 PINS, BLACK)	front RH side of engine compartment		
X6133	(2 PINS, BLACK)	front of engine compartment		
X6150	(12 PINS, BLACK)	rear RH side of engine compartment	05-1	01-6
X6151	(3 PINS, GRAY)	top RH side of engine		07-4
X6152	(3 PINS, GRAY)	top RH side of engine		07-4
X6153	(3 PINS, GRAY)	top RH side of engine		07-4
X6154	(3 PINS, GRAY)	top RH side of engine		07-4
X6155	(3 PINS, GRAY)	top RH side of engine		07-4
X6156	(3 PINS, GRAY)	top RH side of engine		07-4
X6163	(2 PINS, BLACK)	RH side of engine		
X6200	(4 PINS, BLACK)	under center of car	15-3	03-4
X6203	(3 PINS, BLACK)	front of engine below intake manifold (M3)	12-2	13-2
X6204	(3 PINS, BLACK)	front of engine below intake manifold (M3)	12-2	07-3
X6205	(2 PINS, BLACK)	LH side of engine (near oil level stick)	13-3	
X6207	(4 PINS, BLACK)	LH side of engine		07-2
X6208	(2 PINS, BLACK)	front of engine CAMSHAFT ACTUATOR		
X6209	(3 PINS, BLACK)	front of engine HALL EFFECT CAMSHAFT SENSOR		07-5
X6217	(4 PINS, GRAY)	top front of engine		07-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6231	(2 PINS, BROWN)	RH front of engine below intake manifold (near oil level stick) (325i)	11-1	
X6231	(2 PINS, BLACK)	LH side of engine compartment (near oil level stick) (M3)	14-2	
X6231	(2 PINS, BROWN)	RH front of engine below intake manifold (near oil level stick) (318is)	17-1	
X6232	(2 PINS, BLACK)	RH front of engine below intake manifold (325i)	11-3	
X6232	(2 PINS, BLACK)	RH front of engine (M3)	12-1	
X6232	(2 PINS, BLACK)	RH front of engine below intake manifold (318is)	17-2	
X6233	(7 PINS, BLACK)	LH side of engine compartment right of LH side shock tower		04-3
X6236	(2 PINS, BLUE)	RH front of engine below intake manifold (325i)		
X6236	(2 PINS, BLUE)	RH front of engine (M3)	12-1	
X6236	(2 PINS, BLUE)	RH front of engine below intake manifold (318is)	17-2	
X6238	(2 PINS, BLACK)	LH side of engine (M3)	14-2	
X6240	(4 PINS, BLACK)	LH side of engine near starter		07-2
X6241	(3 PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6241	(3 PINS, BLACK)	LH side of engine (318is)	16-3	07-5
X6242	(2 PINS, BLACK)	LH side of engine (M3)	14-1	07-3
X6242	(3 PINS, BLACK)	LH side of engine (318is)	16-3	07-5
X6243	(3 PINS, BLACK)	LH side of engine (M3)	14-1	07-5
X6252	(3 PINS, BLACK)	LH side of engine (M3)	11-2	07-3
X6252	(3 PINS, BLACK)	LH side of engine (near oil level stick) (320i–325i)	13-3	13-2
X6256	(4 PINS, BLACK)	rear of engine compartment	11-1	07-2
X6275	(2 PINS, BLACK)	top center of engine	36-2	
X6300	(9 PINS, BLACK)	rear LH side of engine compartment		03-6

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6301	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6303	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6304	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6307	(10 PINS, BLACK)	front of engine compartment		09-1
X6454	GROUND	rear RH side of engine compartment back of RH side shock tower	06-2	
X6456	GROUND	RH front of engine (325i)	11-3	
X6456	GROUND	on cylinder head	36-1	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	05-2	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment		
X6510	CABLE SOCKET STARTER TERMINAL 50	rear LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET STARTER TERMINAL 30h	rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER TERMINAL 30h	rear LH side of engine compartment below intake manifold		
X6550	(2 PINS, BLACK)	under LH center of car	27-1	
X7000	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X7509	CABLE SOCKET ALTERNATOR TERMINAL D+	front LH side of engine compartment below		
X8500	(55 PINS, BLACK)	rear RH side of engine compartment	00-1	00-1
X8503	(10 PINS, WHITE)	center console RH side of gearshift selector	31-1	02-4
X8507	(1 PIN, BLACK)	below LH side of dash		
X8511	(2 PINS, BLACK)	under front of car LH side of transmission		
X8516	(3 PINS, BLACK)	under center of car above		13-2
X8521	(9 PINS, BLACK)	under center of car above		13-3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X9317	(6 PINS, YELLOW)	in lower LH C–pillar		05-3
X9320	(6 PINS, YELLOW)	in lower RH C–pillar		05-3
X9997	(2 PINS, ORANGE)	behind steering wheel	24-2	
X10010	GROUND	behind RH footwell trim above		
X10012	GROUND	behind RH footwell trim above	07-3	
X10013	(1 PIN, ---)	top of steering column		
X10015	(20 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10016	(20 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10017	(20 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10018	(32 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10026	(6 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10030	(5 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10034	(2 PINS, ---)	rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10035	(2 PINS, ---)	rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10036	(2 PINS, BLACK)	rear LH side of engine compartment FRONT POWER DISTRIBUTION BOX		
X10054	(12 PINS, BLACK)	below LH side of dash RH side of steering column	28-1	02-6
X10065	(2 PINS, WHITE)	LH side of LH footwell under footrest		
X10070	(2 PINS, GRAY)	near LH headlight assembly	13-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10071	(2 PINS, BLACK)	near LH headlight assembly	13-2	
X10074	(2 PINS, BLACK)	near LH headlight assembly		
X10075	(2 PINS, GRAY)	near RH headlight assembly		
X10092	(9 PINS, BLACK)	behind glove box left	25-2	03-6
X10094	(2 PINS, BLACK)	LH side of engine compartment		
X10098	(1 PIN, ---)	front RH side of engine compartment		
X10099	(1 PIN, ---)	front RH side of engine compartment		
X10182	(18 PINS, BLACK)	behind glove box (glove box removed)	01-1	01-5
X10193	(9 PINS, BLACK)	behind glove box (glove box removed)		03-6
X10218	(3 PINS, NATURAL)	under RH front seat	24-1	01-1
X10223	(3 PINS, BLACK)	in convertible top compartment left	22-1	03-6
X10224	(2 PINS, BLACK)	in convertible top compartment left	22-1	
X10225	(3 PINS, BLACK)	underside of trunk lid		01-1
X10226	(9 PINS, BLACK)	behind glove box	25-2	03-6
X10238	(2 PINS, BLACK)	LH side of engine compartment		
X10239	(3 PINS, BLACK)	LH side of engine compartment		07-3
X10244	(1 PIN, BLACK)	below LH side of dash		
X10250	(2 PINS, ---)	behind LH footwell speaker grille		
X10261	(4 PINS, BLACK)	front RH side of engine compartment near RH headlight assembly	09-3	12-3
X10262	(9 PINS, BLACK)	below LH side of dash		03-6
X10267	(6 PINS, BLACK)	center console		05-3
X11166	GROUND	behind rear seats left	38-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X11205	(2 PINS, BLACK)	behind rear seats left	38-1	
X11209	(2 PINS, BLACK)	behind rear seats left	38-3	
X11211	(2 PINS, ---)	in convertible top compartment		
X11379	(3 PINS, BLACK)	RH top of radiator	09-3	06-3
X11382	(2 PINS, BLUE)	front cover	38-2	
X11383	(2 PINS, BLUE)	behind rear seats	38-3	
X11385	(3 PINS, BLACK)	front cover	38-2	01-1
X11386	(3 PINS, BLUE)	behind rear seats	38-3	01-1
X11390	(12 PINS, BLACK)	in lower LH C-pillar behind side panel	02-1	01-3
X13004	GROUND	in upper RH rear seatback	06-1	
X13006	GROUND	in upper LH rear seatback		
X13009	GROUND	behind RH footwell trim above	07-3	
X13016	GROUND	below LH side of dash	07-1	
X13025	(12 PINS, BLACK)	behind glove box (glove box removed)	01-3	02-6
X13026	(1 PIN, BLACK)	LH side of dash		
X13044	(12 PINS, BLACK)	in lower LH C-pillar behind side panel	02-1	01-3
X13045	(6 PINS, GREEN)	center console		05-3
X13079	(3 PINS, YELLOW)	behind rear seats		01-1
X13125	(3 PINS, YELLOW)	in lower LH C-pillar		01-1
X13126	(3 PINS, YELLOW)	in lower RH C-pillar		01-1
X13142	(2 PINS, WHITE)	behind rear seats	21-3	
X13143	(3 PINS, BLACK)	behind rear seats	38-3	01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13145	(6 PINS, BLACK)	in LH side of luggage compartment	34-3	04-2
X13146	(2 PINS, BLACK)	in LH side of luggage compartment	34-1	
X13152	(4 PINS, BLACK)	in LH side of luggage compartment	34-1	07-6
X13156	(10 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	09-4
X13157	(6 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	05-3
X13159	(26 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	00-2
X13170	(2 PINS, BLACK)	in spare–wheel well	35-3	
X13171	(3 PINS, NATURAL)	RH rear wheel well behind trim panel	35-1	06-4
X13172	(2 PINS, BLACK)	in LH rear side of luggage compartment	35-2	
X13226	(2 PINS, BLACK)	behind rear seats		
X13227	(2 PINS, BLACK)	behind rear seats		
X13230	GROUND	behind RH footwell trim above Convertible		
X13252	(15 PINS, YELLOW)	behind glove box (glove box removed)	01-1	00-3
X13253	(26 PINS, YELLOW)	behind glove box (glove box removed)	01-1	00-2
X13254	(26 PINS, GREEN)	behind glove box (glove box removed)	01-1	00-2
X13255	(12 PINS, NATURAL)	behind glove box (glove box removed)		01-3
X13256	(2 PINS, GRAY)	left from LH rear seat behind trim panel	22-2	
X13257	(2 PINS, GRAY)	RH side of RH rear seat behind trim panel	22-2	
X13258	(15 PINS, WHITE)	behind glove box (glove box removed)	25-2	00-3
X13262	(6 PINS, BLUE)	center console		05-3
X13263	(2 PINS, BLACK)	behind glove box		
X13283	(9 PINS, BLACK)	LH side of LH footwell		03-6

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13305	(8 PINS, BLACK)	in LH rear side of luggage compartment		03-5
X18080	(1 PIN, NATURAL)	in luggage compartment		
X18126	(17 PINS, BLACK)	center console behind radio		02-3
X18154	(26 PINS, BLUE)	center console		00-2
X18155	(26 PINS, WHITE)	center console	03-2	00-2
X18156	(26 PINS, BLACK)	center console	03-2	00-2
X18157	(26 PINS, BLUE)	center console	03-2	00-2
X18196	(10 PINS, BLACK)	driver's door LEFT FRONT HIGH RANGE SPEAKER		02-4
X18198	(10 PINS, BLACK)	passenger's door RIGHT FRONT HIGH RANGE SPEAKER		02-4
X18277	(2 PINS, BLACK)	LH front door	32-2	
X18295	(2 PINS, YELLOW)	in lower RH B–pillar behind trim panel		
X18296	(2 PINS, YELLOW)	in lower LH B–pillar behind trim panel	32-2	
X18336	(3 PINS, BLACK)	LH side of glove box (glove box removed)		01-1
X18507	(2 PINS, – – –)	center console		
X18509	(8 PINS, – – –)	center console		
X18515	(2 PINS, – – –)	LH side of LH footwell behind trim panel		
X18518	(3 PINS, BLACK)	under RH front seat		01-1
X18520	(10 PINS, – – –)	center console RADIO		
X18521	(10 PINS, – – –)	RH side of luggage compartment CD CHANGER		
X18723	GROUND	below LH side of dash		
X18741	(4 PINS, – – –)	center of dash MICROPHONE		
X18797	(1 PIN, NATURAL)	in RH rear side of luggage compartment		

COMPONENT LOCATION CHART

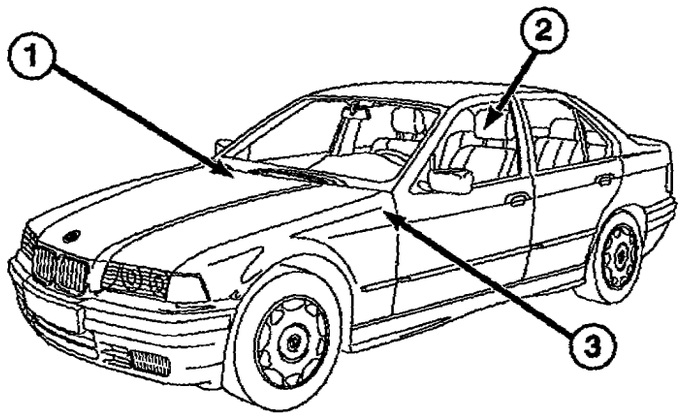
COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X18798	(1 PIN, NATURAL)	in RH rear side of luggage compartment		
X19527	(16 PINS, BLACK)	below LH side of dash		05-5
X62101	(4 PINS, BLACK)	on catalytic converter		07-2
X62101	(4 PINS, BLACK)	top center of engine	36-3	07-2
X62102	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X62201	(4 PINS, BLACK)	top center of engine	36-3	07-2
X62202	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X90260	(3 PINS, BLACK)	RH side of steering column	37-3	01-1
Y1	ABS HYDRAULIC UNIT	rear LH side of engine compartment back of LH side shock tower	16-2	
Y2	AIR CONDITIONING COMPRESSOR	front of engine		
Y4	WATER VALVE ASSEMBLY	rear LH side of engine compartment	16-2	
Y5	DRIVER'S SIDE MIRROR	in upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	in upper RH front door		
Y19	SHIFT–LOCK	center console RH side of gearshift selector		
Y1w	ABS HYDRAULIC UNIT	LH side of engine compartment		
Y85	LH ROLLOVER PROTECTION ACTUATOR	behind rear seats Convertible	02-3	
Y86	RH ROLLOVER PROTECTION ACTUATOR	behind rear seats Convertible	02-3	
Y198	EXHAUST GAS FLAP VALVE	in LH rear side of luggage compartment	35-2	
Y199	CARBON CANISTER VALVE	in spare–wheel well	35-3	
Y5013	CHANGE–OVER VALVE	LH side of engine (M3)	14-2	
Y5020	VARIABLE CAMSHAFT CONTROL VALVE 1	RH front of engine (M3)	11-2	
Y5021	VARIABLE CAMSHAFT CONTROL VALVE 2	front of engine compartment (M3)		

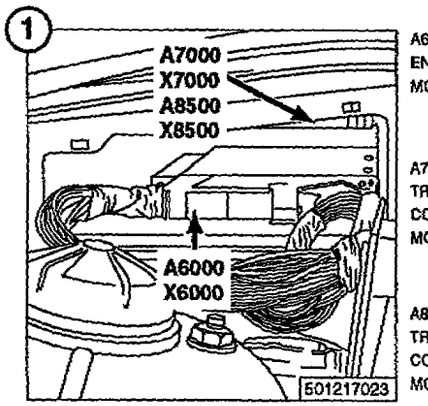
COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y6101	CYL. 1 FUEL INJECTION VALVE	RH front of engine (M3)	11-2	
Y6101	CYL. 1 FUEL INJECTION VALVE	top center of engine	12-3	
Y6102	CYL. 2 FUEL INJECTION VALVE	top center of engine	12-3	
Y6103	CYL. 3 FUEL INJECTION VALVE	top center of engine	12-3	
Y6104	CYL. 4 FUEL INJECTION VALVE	top center of engine	12-3	
Y6105	CYL. 5 FUEL INJECTION VALVE	top center of engine	12-3	
Y6106	CYL. 6 FUEL INJECTION VALVE	top center of engine	12-3	
Y6120	EVAPORATIVE EMISSION VALVE	front LH side of engine compartment right of LH side shock tower	15-1	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment right of LH side shock tower	20-3	
Y6130	IDLE SPEED CONTROL VALVE	RH front of engine below intake manifold (325i)	11-3	
Y6130	IDLE SPEED CONTROL VALVE	rear LH side of engine compartment (M3)	14-3	
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	rear LH side of engine compartment		
Y6133	AIR PUMP	rear RH side of engine compartment	05-1	
Y6163	SECONDARY AIR PUMP VALVE	RH side of engine		
Y6208	CAMSHAFT ACTUATOR	front of engine compartment		
Y6275	VARIABLE CAMSHAFT CONTROL VALVE 1	top center of engine	36-2	
Y6550	SOLENOID VALVE ("RUNNING LOSSES")	lower front side of engine compartment		
Y8505y	TRANSMISSION VALVE UNIT	on LH side of transmission		

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

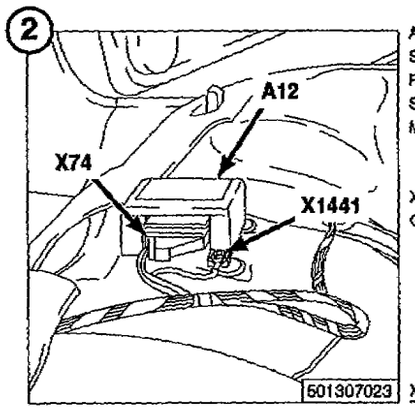




A6000 ENGINE CONTROL MODULE (DME) — X6000, X7000, X8500

A7000 TRANSMISSION CONTROL MODULE (EGS)

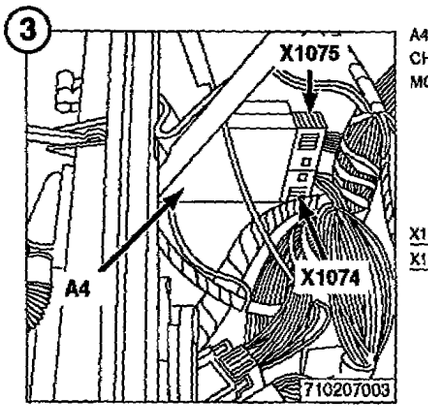
A8500 TRANSMISSION CONTROL MODULE (EGS)



A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X1441 GROUND

X74

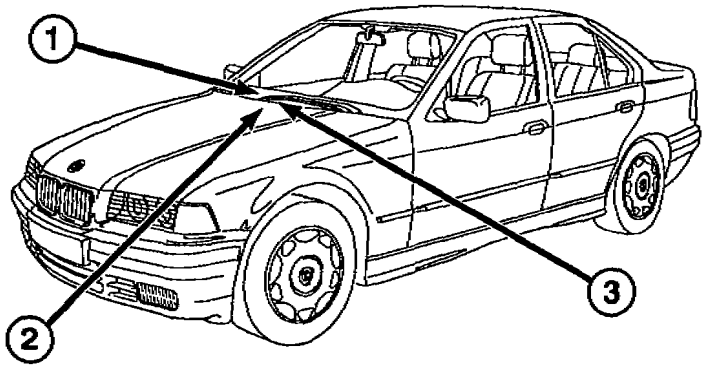


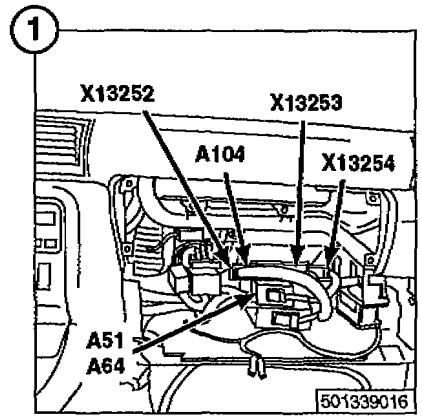
A4 CHECK CONTROL MODULE

X1074, X1075

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



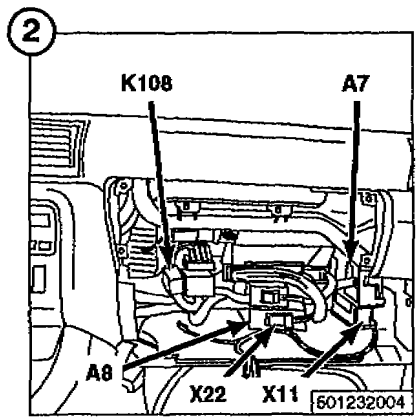


A51
WIPER/WASHER
MODULE

A64
WIPER/WASHER
MODULE (LOW II)

A104
BODY
ELECTRONICS
CONTROL
MODULE (ZKE IV)

X13252
X13253
X13254

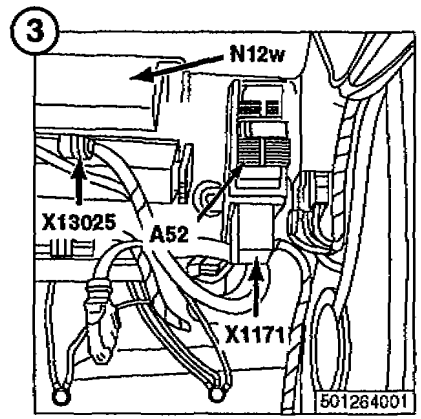


A7
SLIP CONTROL
MODULE (ABS)

A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

K108
HORN RELAY
(ALPINE)

X11
X22
X1170



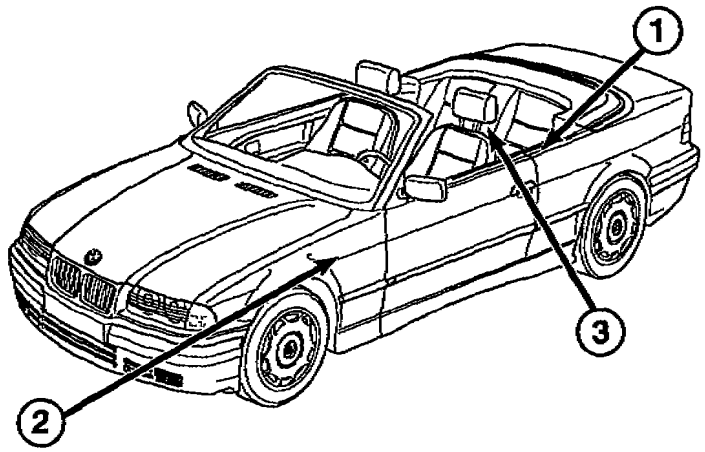
A52
SLIP CONTROL
MODULE
(ABS/ASC)

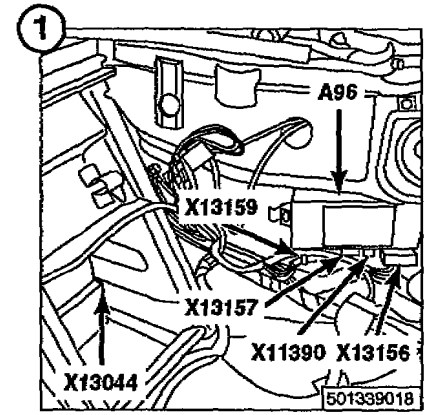
N12w
ANTI-THEFT
CONTROL
MODULE (ALPINE)

X1171
X13025

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

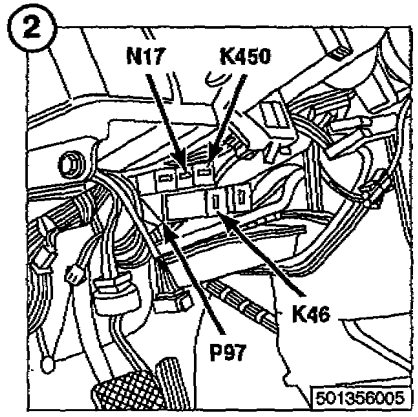




CONVERTIBLE

A96
CONVERTIBLE TOP CONTROL MODULE

X11390
X13044
X13156
X13157
X13159

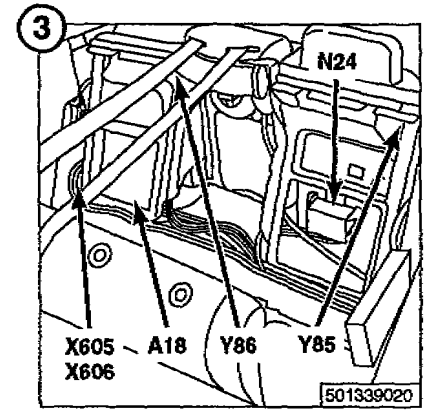


K46
HIGH BEAM LIGHT RELAY

K450
PARK VENTILATION RELAY

N17
CRASH CONTROL MODULE

P97
AUXILIARY FUSE BOX



CONVERTIBLE

A18
HIFI AMPLIFIER

N24
ROLLOVER SENSOR

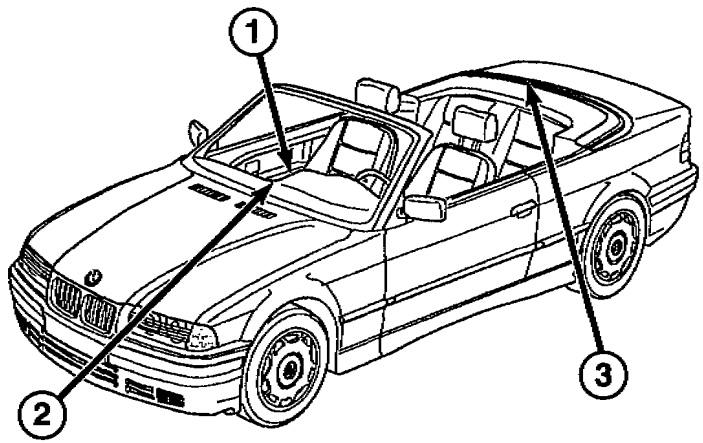
Y85
LH ROLLOVER *PROTECTION* ACTUATOR

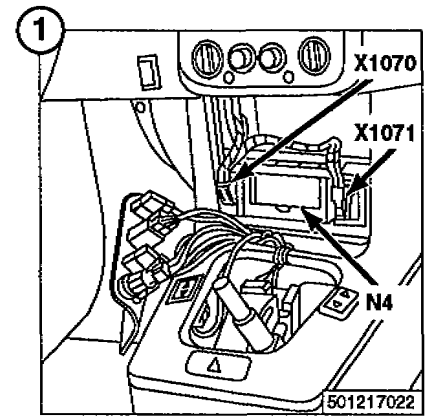
Y86
RH ROLLOVER PROTECTION ACTUATOR

X605
X606

COMPONENT LOCATION VIEWS

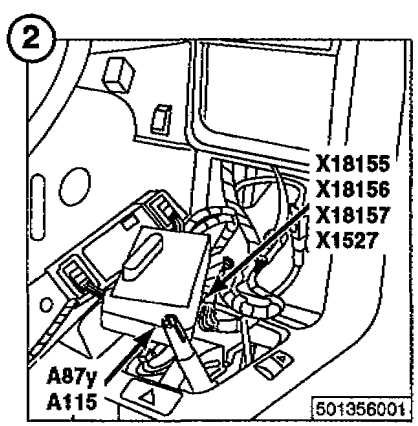
ELECTRICAL CONTROL MODULE LOCATIONS





N4
ON-BOARD
COMPUTER

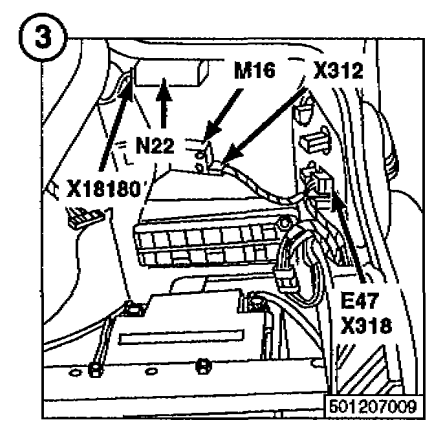
X1070
X1071



A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL
MODULE

A115
AUTOMATIC
CLIMATE CONTROL
MODULE

X1527
X18155
X18156
X18157



E47
RIGHT TRUNK
LIGHT ASSEMBLY

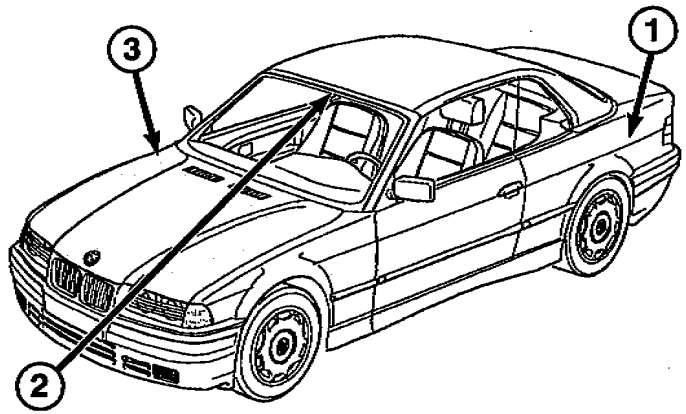
X312
X318
X18180

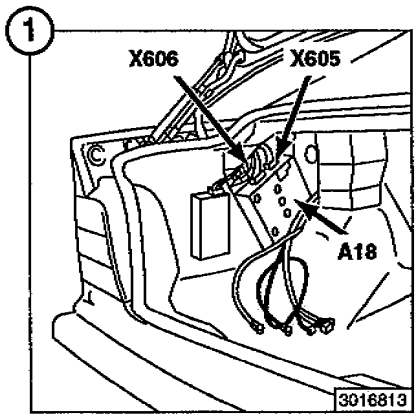
M16
GAS FILLER LOCK
MOTOR

N22
CD CHANGER

COMPONENT LOCATION VIEWS

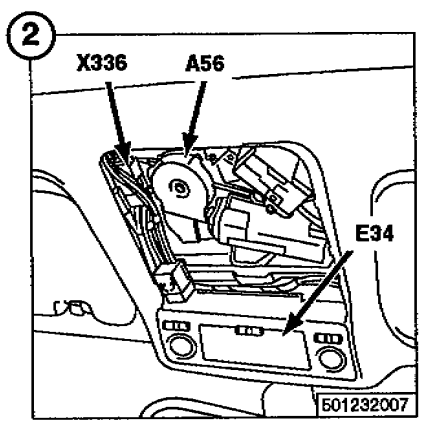
ELECTRICAL CONTROL MODULE LOCATIONS





A18
HIFI AMPLIFIER

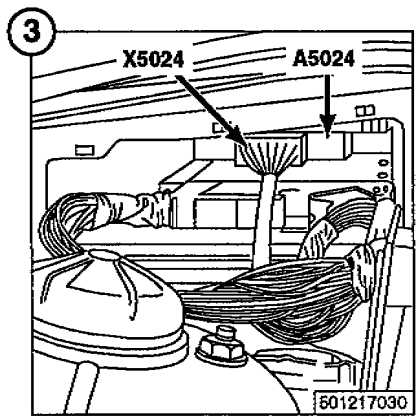
X605
X606



A56
SUNROOF
CONTROL
ASSEMBLY

E34
FRONT DOME
LIGHT/MAP READ-
ING ASSEMBLY

X336



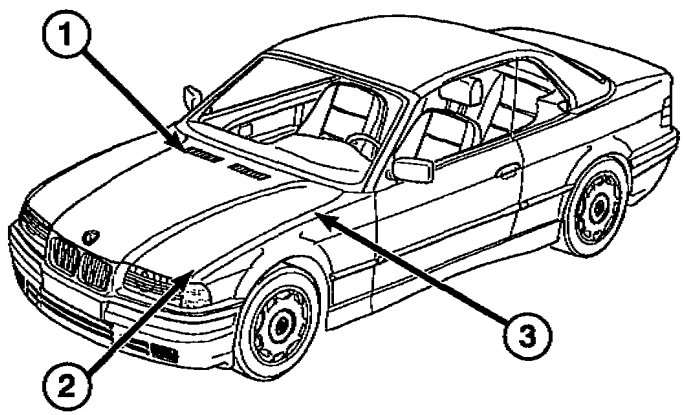
A5024
VARIABLE CAM-
SHAFT CONTROL
MODULE (VANOS)

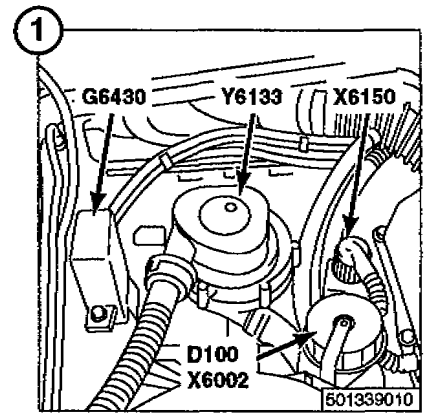
X5024

M3 CDN

COMPONENT LOCATION VIEWS

B(+)



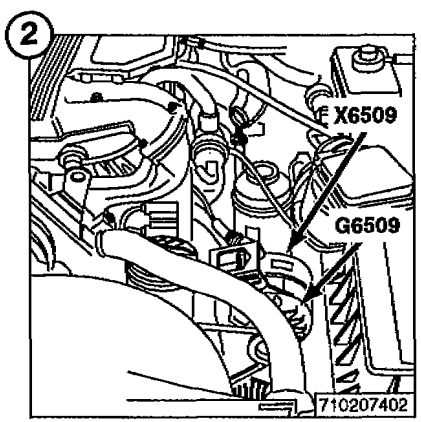


D100
DATA LINK
CONNECTOR

X6002
X6150

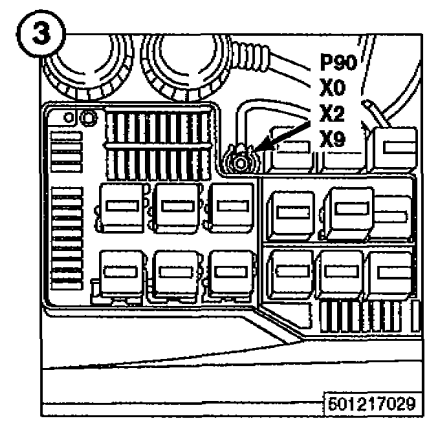
G6430
B+ JUMP START
JUNCTION POINT

Y6133
AIR PUMP



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+



P90
FRONT POWER
DISTRIBUTION BOX

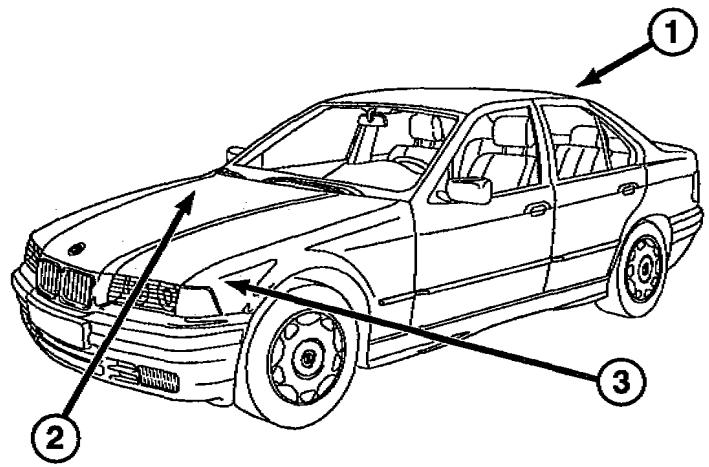
X1
B+ JUNCTION
POINT

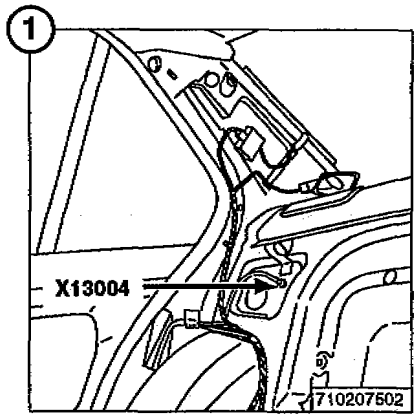
X2
BATTERY B+
START POINT

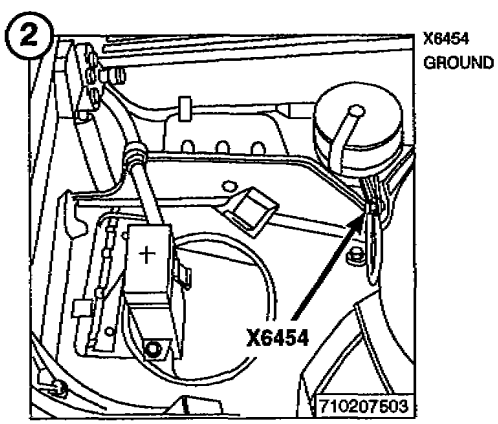
X9
B+ JUNCTION
POINT

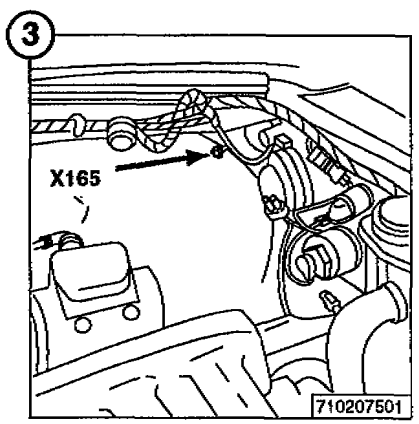
COMPONENT LOCATION VIEWS

B(-)



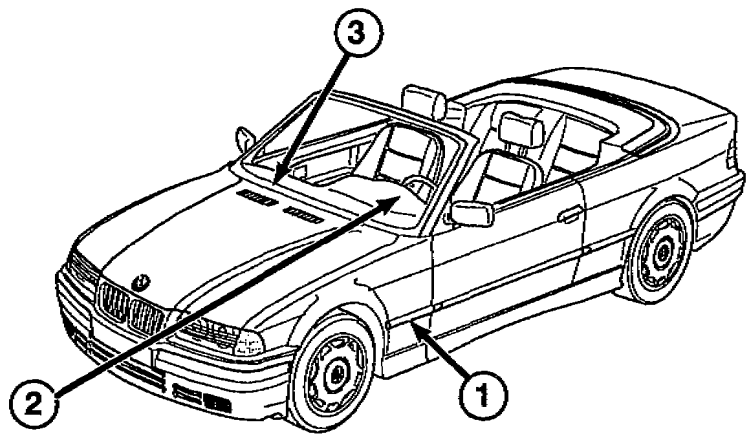


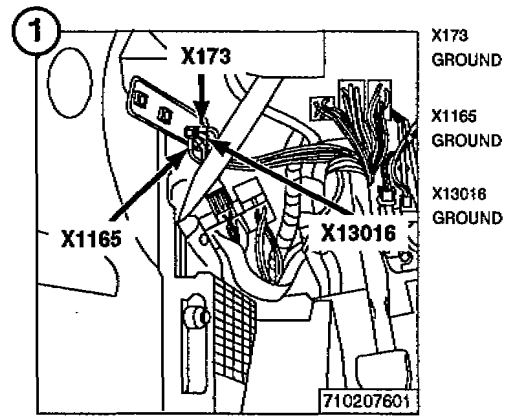


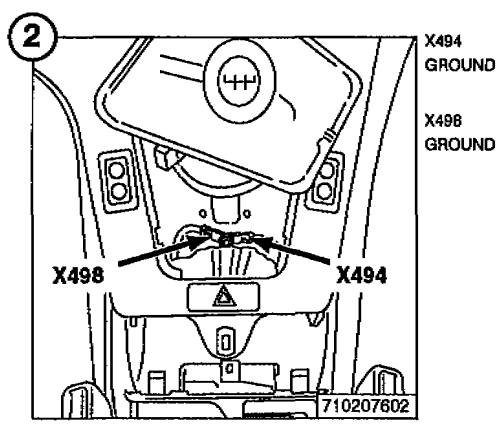


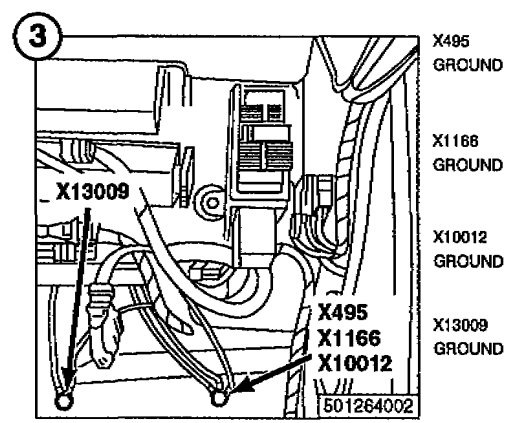
COMPONENT LOCATION VIEWS

B(-)

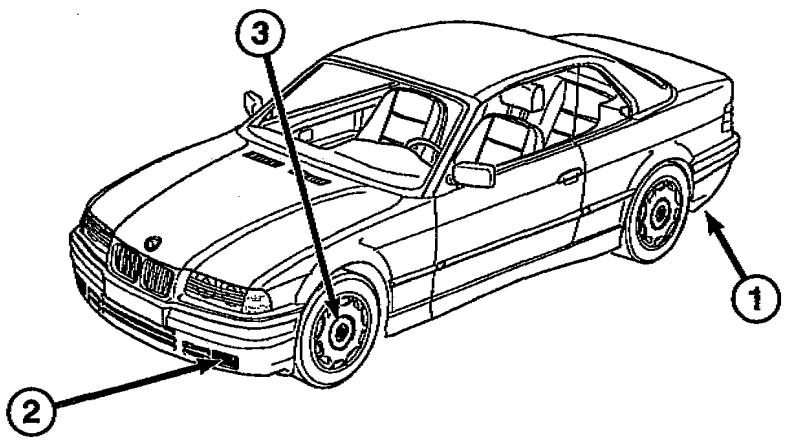


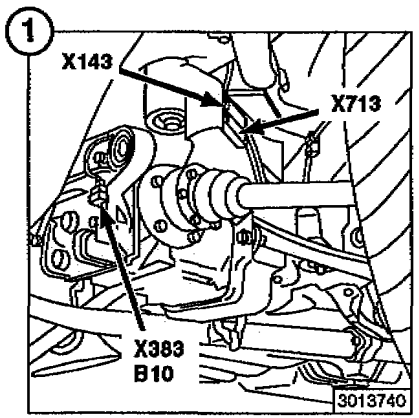






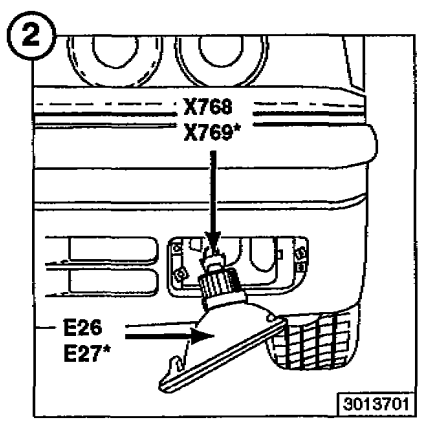
COMPONENT LOCATION VIEWS





B10
VEHICLE SPEED SENSOR

X143
X383
X713

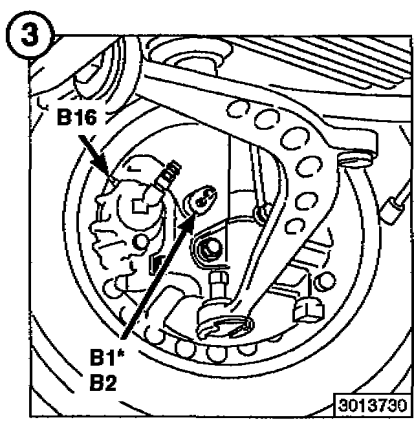


E26
LEFT FOG LIGHT

E27 *
RIGHT FOG LIGHT

X768
X769 *

*RH similar



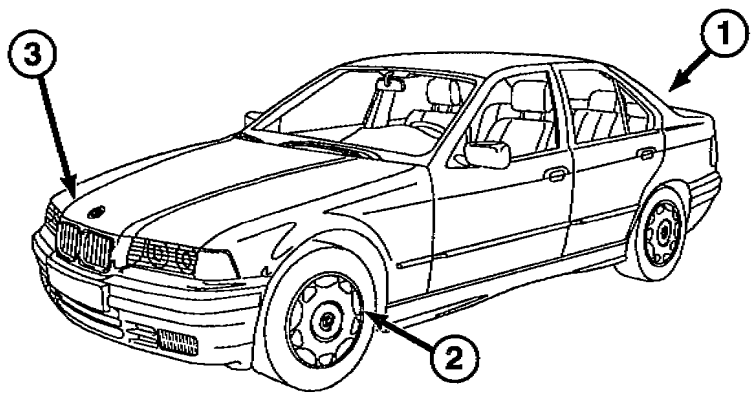
B1 *
RIGHT FRONT SPEED SENSOR – ABS

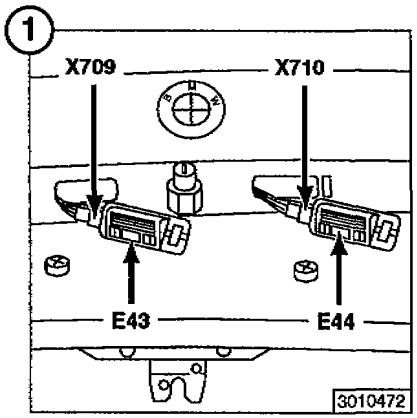
B2
LEFT FRONT SPEED SENSOR – ABS

B16
LEFT FRONT BRAKE PAD SENSOR

*RH similar

COMPONENT LOCATION VIEWS

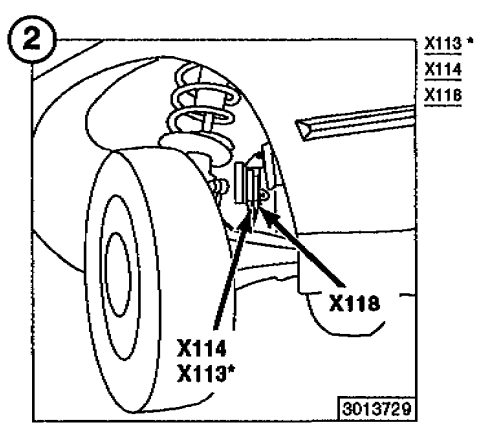




E43
LEFT LICENSE PLATE LIGHT

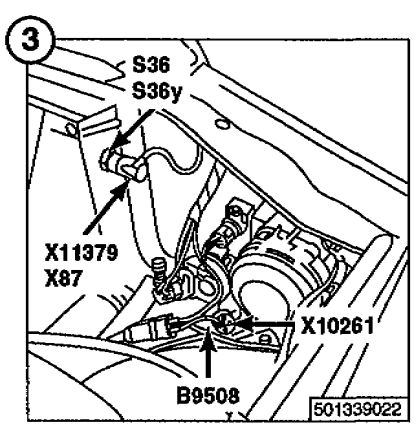
E44
RIGHT LICENSE PLATE LIGHT

X709
X710



X113 *
X114
X116

*RH similar



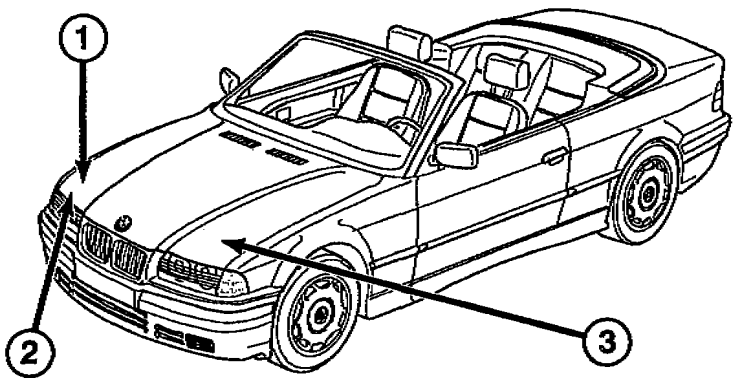
B9508
PRESSURE SWITCH

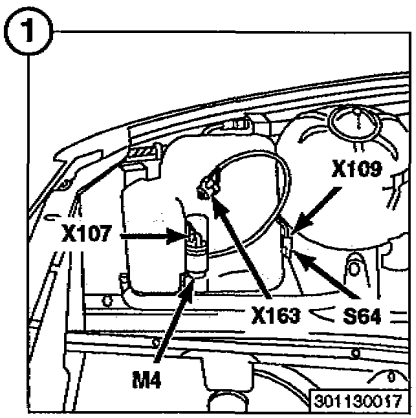
S36
TEMPERATURE SWITCH

S36y
DOUBLE TEMPERATURE SWITCH

X87
X10261
X11379

COMPONENT LOCATION VIEWS

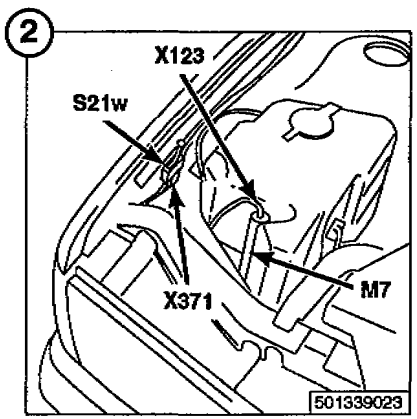




1 M4
WASHER PUMP

S64
WASHER FLUID
LEVEL SWITCH

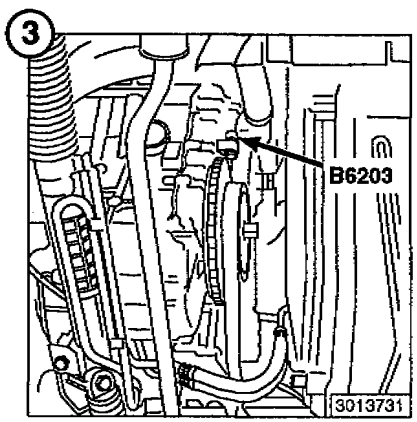
X107
X109
X163



2 M7
HEADLIGHT/FOG
LIGHT WASHER
PUMP

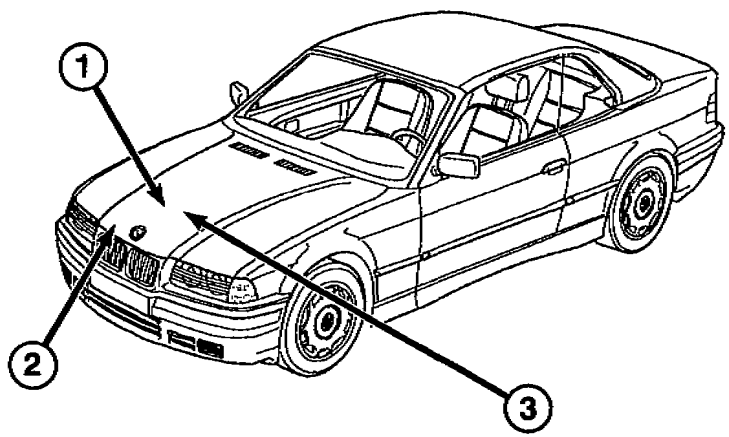
S21w
ENGINE HOOD
SWITCH

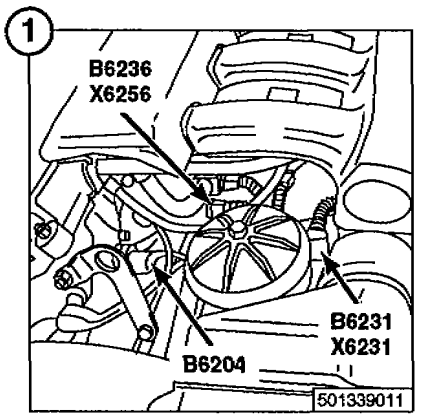
X123
X371



3 B6203
CRANKSHAFT
POSITION/RPM
SENSOR

COMPONENT LOCATION VIEWS



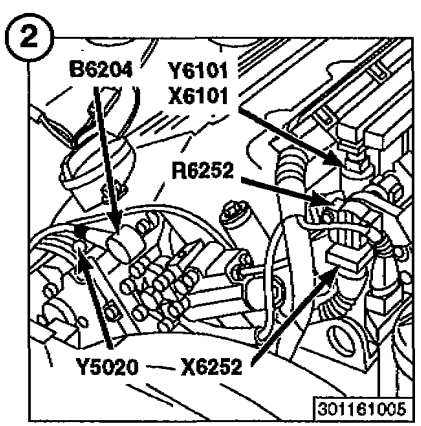


325i

B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) — X6231 X6256

B6231 OIL PRESSURE SWITCH

B6236 ENGINE COOLANT TEMPERATURE SENSOR

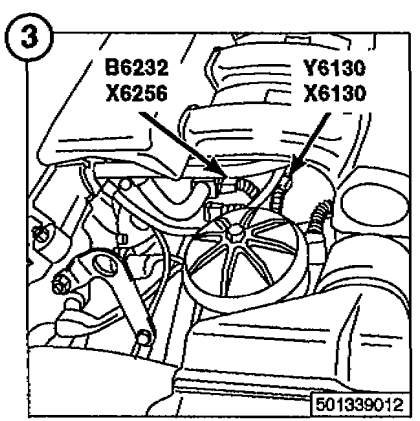


B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) — Y6101 CYL. 1 FUEL INJECTION VALVE

R6252 THROTTLE POSITION SENSOR — X6101 X6252

Y5020 VARIABLE CAMSHAFT CONTROL VALVE 1

M3 CDN



325i

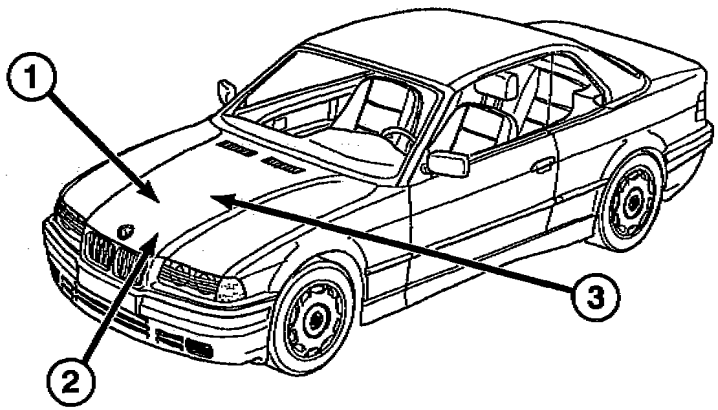
B6232 ENGINE COOLANT TEMPERATURE SENSOR

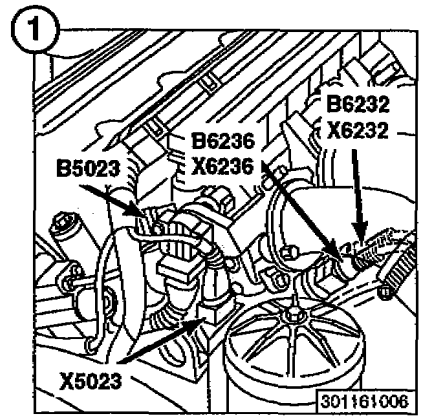
Y6130 IDLE SPEED CONTROL VALVE

X6456 GROUND

X6130 X6256

COMPONENT LOCATION VIEWS



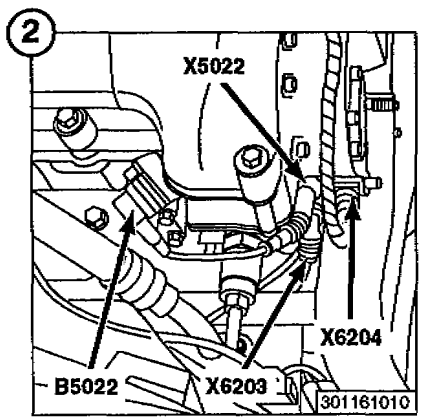


M3 CDN

B5023 VARIABLE CAM-SHAFT CONTROL SENSOR 2 — X5023 X6232 X6236

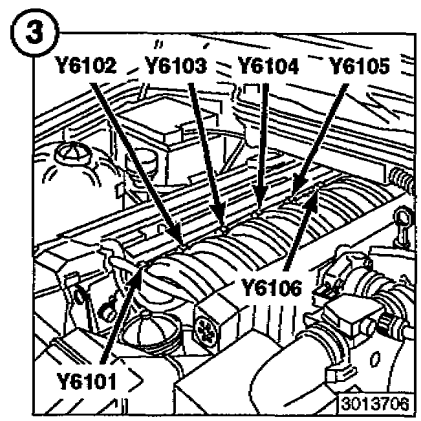
B6232 ENGINE COOLANT TEMPERATURE SENSOR

B6236 ENGINE COOLANT TEMPERATURE SENSOR



M3 CDN

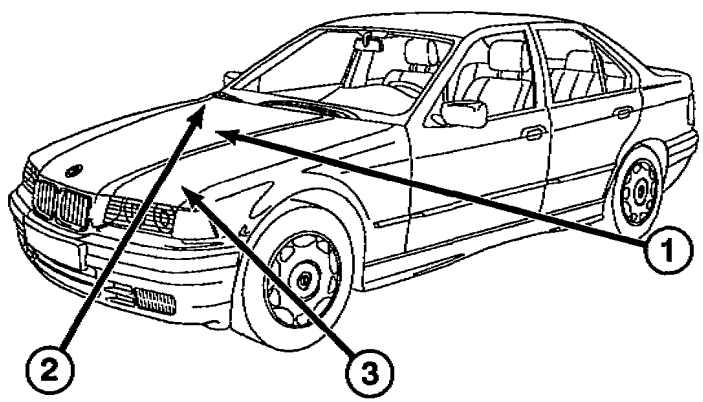
B5022 VARIABLE CAM-SHAFT CONTROL SENSOR 1 — X5022 X6203 X6204

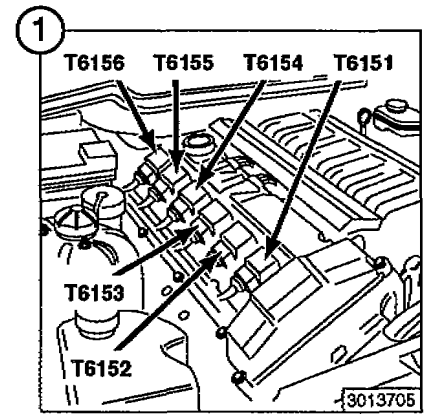


Y6101 CYL. 1 FUEL INJECTION VALVE — Y6104 CYL. 4 FUEL INJECTION VALVE

Y6102 CYL. 2 FUEL INJECTION VALVE — Y6105 CYL. 5 FUEL INJECTION VALVE

Y6103 CYL. 3 FUEL INJECTION VALVE — Y6106 CYL. 6 FUEL INJECTION VALVE





T6151
CYL. 1 IGNITION COIL

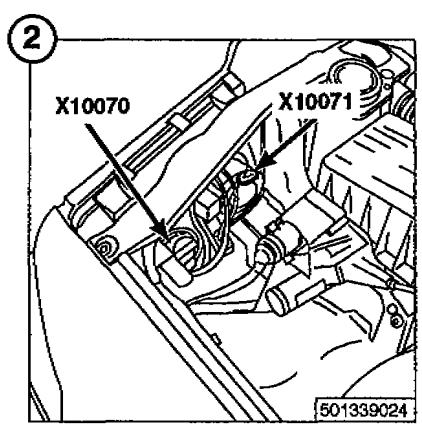
T6154
CYL. 4 IGNITION COIL

T6152
CYL. 2 IGNITION COIL

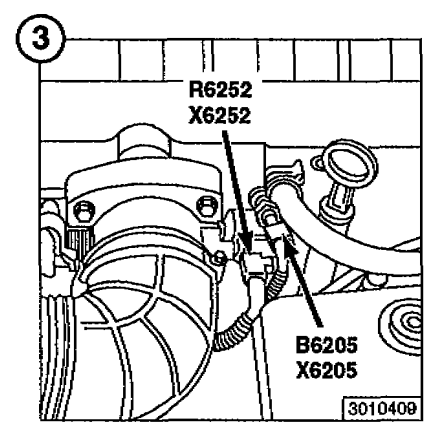
T6155
CYL. 5 IGNITION COIL

T6153
CYL. 3 IGNITION COIL

T6156
CYL. 6 IGNITION COIL



X10070
X10071

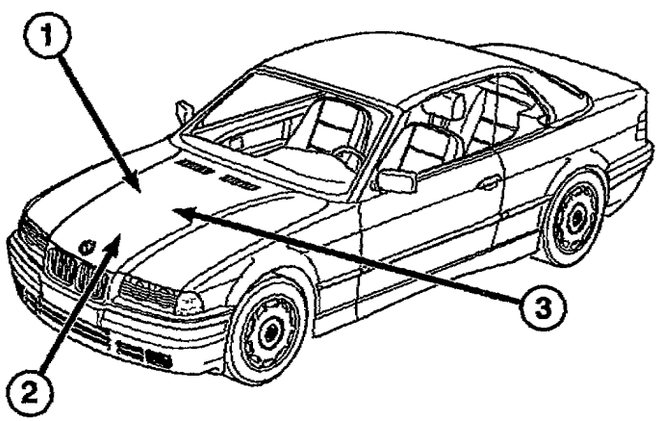


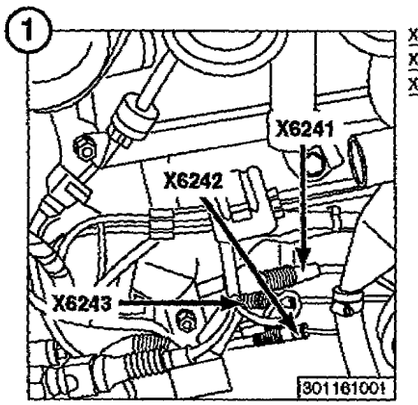
B6205
INTAKE AIR TEMPERATURE SENSOR

R6252
THROTTLE POSITION SENSOR

X6205
X6252

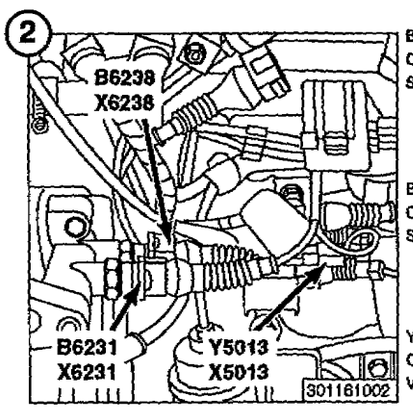
COMPONENT LOCATION VIEWS





X6241
X6242
X6243

M3 CDN

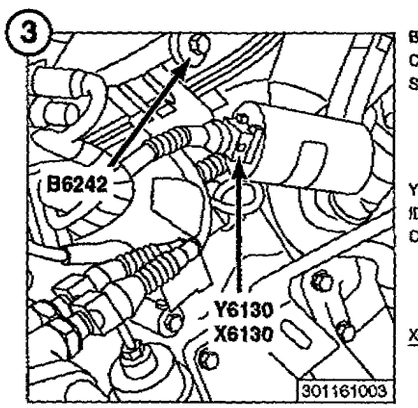


B6231 OIL PRESSURE SWITCH — X5013, X6231, X6238

B6238 OIL TEMPERATURE SENSOR

Y5013 CHANGE–OVER VALVE

M3 CDN

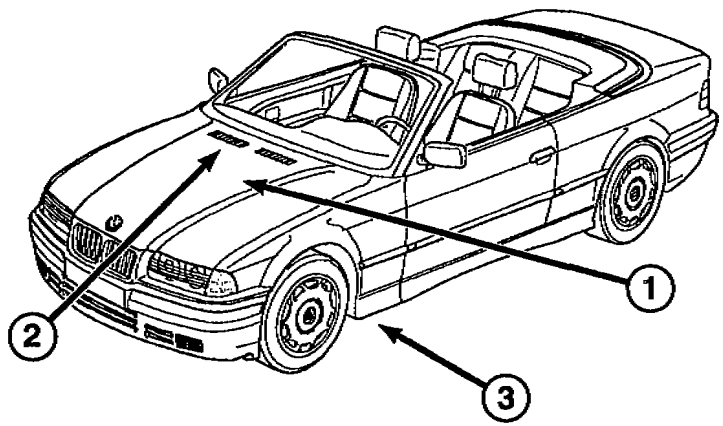


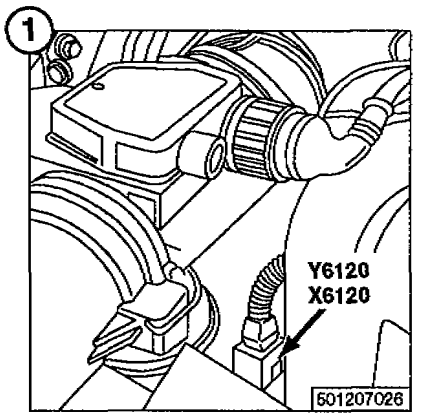
B6242 CYL 3–4 KNOCK SENSOR

Y6130 IDLE SPEED CONTROL VALVE — X6130

M3 CDN

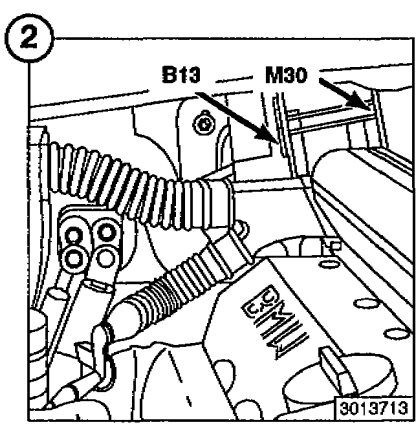
COMPONENT LOCATION VIEWS





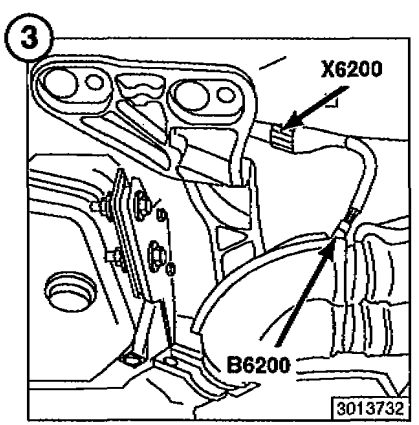
1 Y6120
EVAPORATIVE EMISSION VALVE

X6120



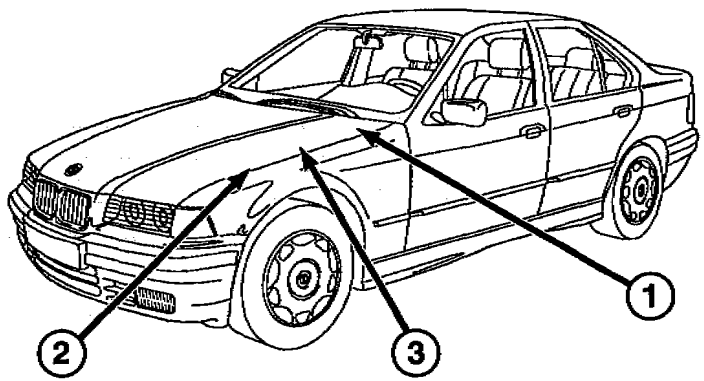
2 B13
OUTSIDE TEMPERATURE SENSOR

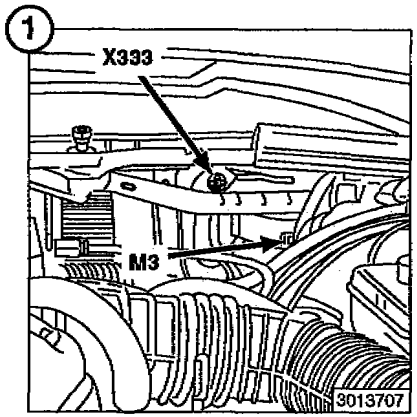
M30
BLOWER MOTOR



3 B6200
HEATED OXYGEN SENSOR

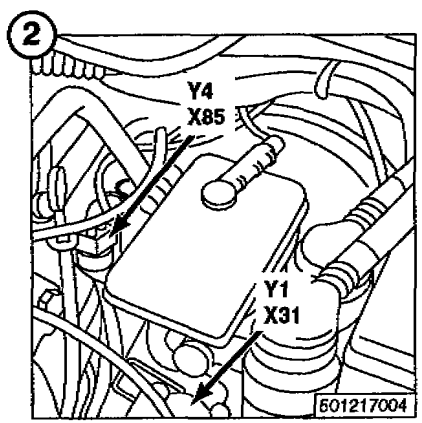
X6200





M3
WIPER MOTOR

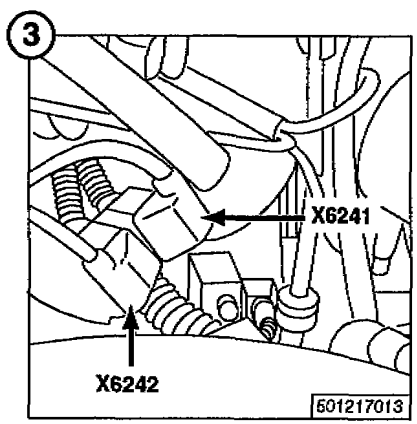
X333



Y1
ABS HYDRAULIC UNIT

Y4
WATER VALVE ASSEMBLY

X31
X85

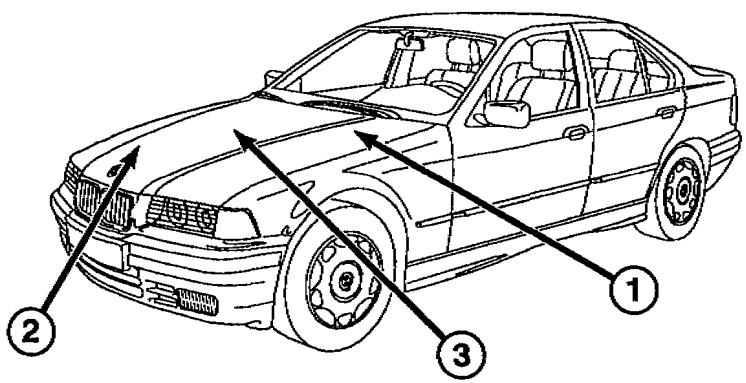


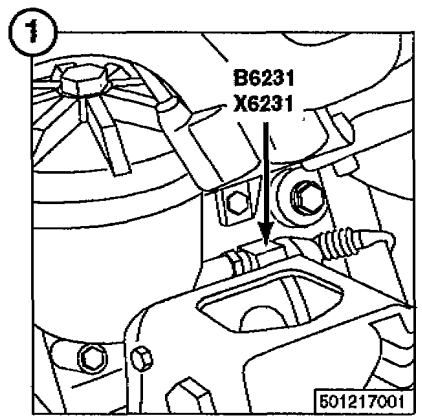
X6241

X6242

318is

COMPONENT LOCATION VIEWS

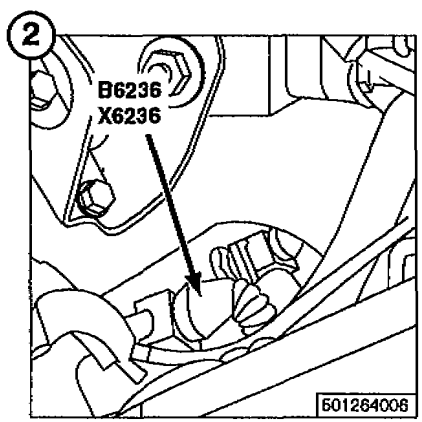




B6231
OIL PRESSURE SWITCH

X6231

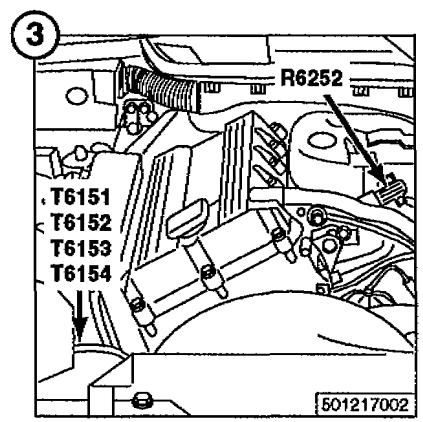
318is



B6236
ENGINE COOLANT TEMPERATURE SENSOR

X6236

318is



R6252
THROTTLE POSITION SENSOR

T6153
CYL. 3 IGNITION COIL

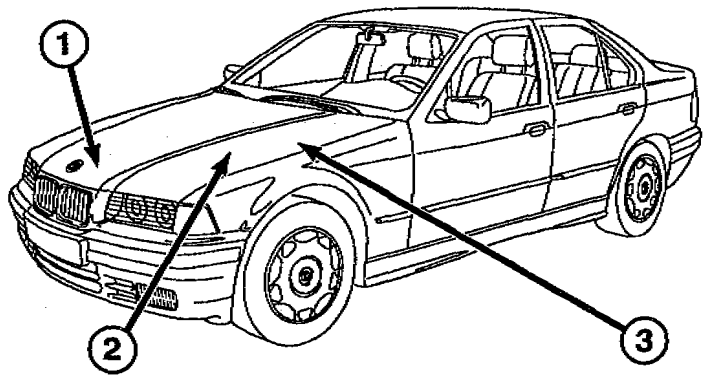
T6151
CYL. 1 IGNITION COIL

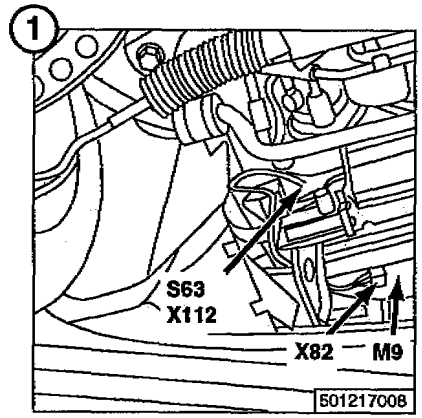
T6154
CYL. 4 IGNITION COIL

T6152
CYL. 2 IGNITION COIL

318is

COMPONENT LOCATION VIEWS



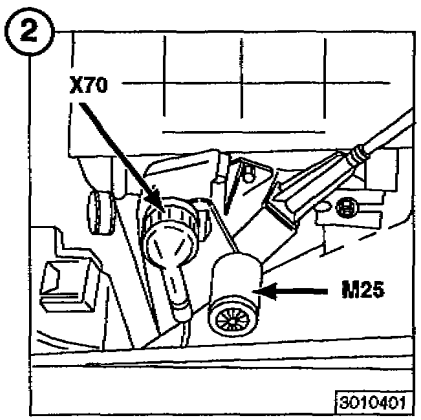


M9
AUXILIARY FAN
MOTOR

S63
ENGINE COOLANT
LEVEL SWITCH

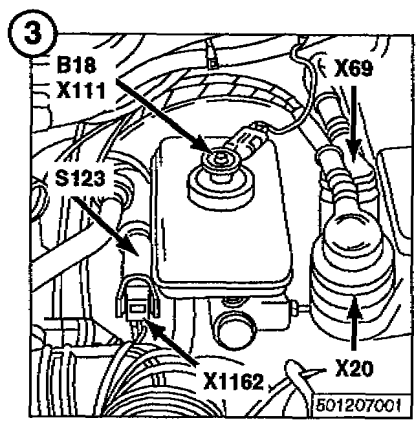
X82
X112

318is



M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70

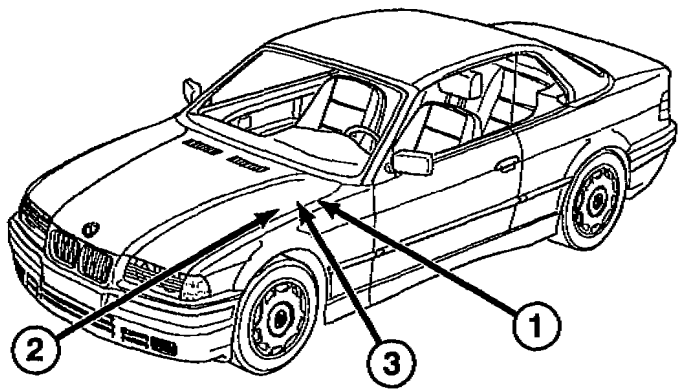


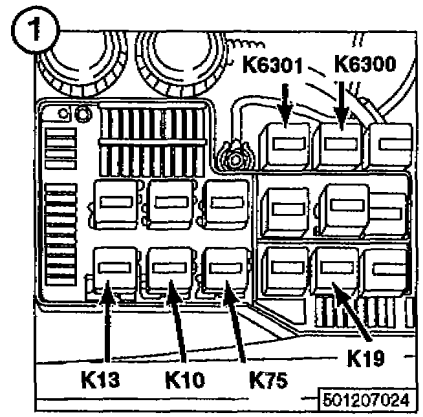
B18
BRAKE FLUID
LEVEL SWITCH

S123
ABS PEDAL
TRAVEL SENSOR

X20
X69
X111
X1162

325i





K10
ABS RELAY

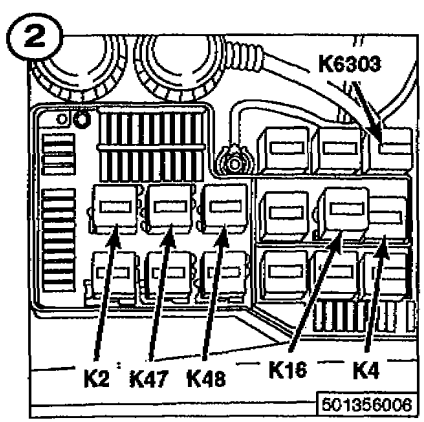
K75
ABS PUMP MOTOR RELAY

K13
REAR DEFOGGER RELAY

K6300
ENGINE CONTROL MODULE RELAY

K19
COMPRESSOR CONTROL RELAY

K6301
CYL. 1–6 FUEL PUMP RELAY



K2
HORN RELAY

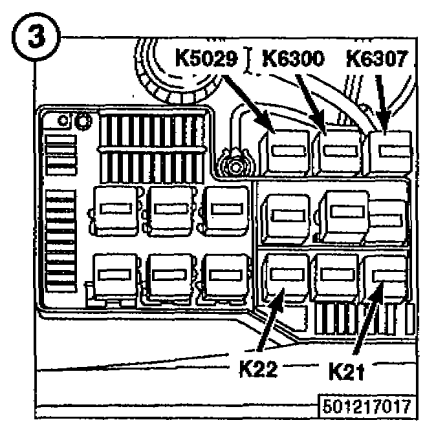
K47
FRONT FOG LIGHT RELAY

K4
BLOWER RELAY

K48
LOW BEAM LIGHT RELAY

K16
HAZARD FLASHER RELAY

K6303
OXYGEN SENSOR RELAY



K21
NORMAL SPEED RELAY

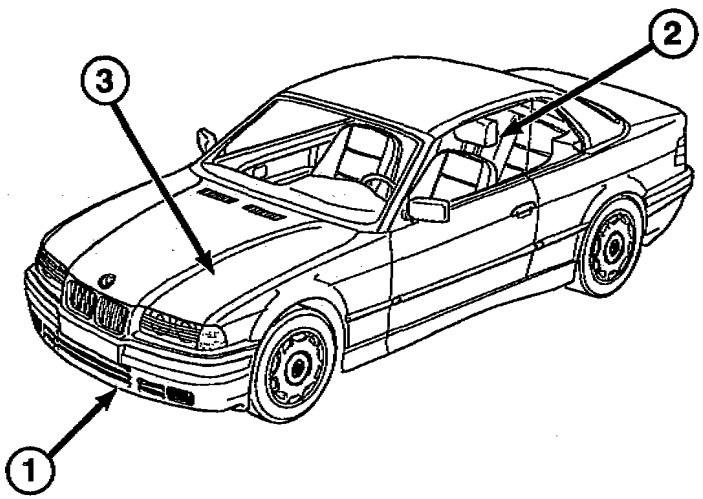
K6300
ENGINE CONTROL MODULE RELAY

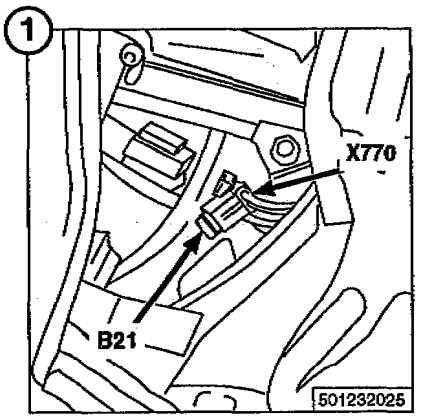
K22
HIGH SPEED RELAY

K6307
FUEL PUMP/START IDENTIFICATION RELAY

K5029
DOUBLE RELAY

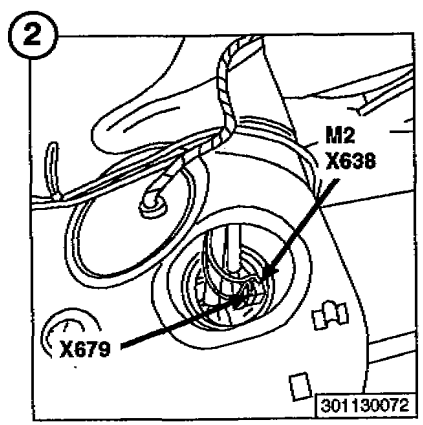
COMPONENT LOCATION VIEWS





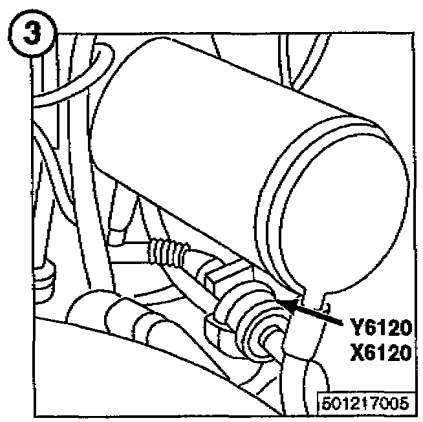
1 B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



2 M2
FUEL PUMP

X638
X679

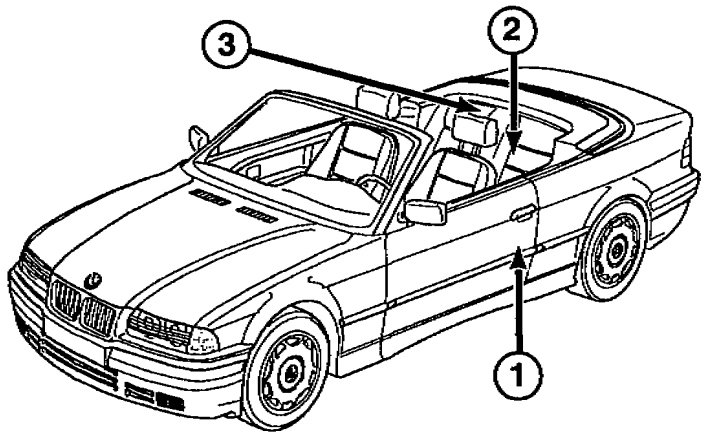


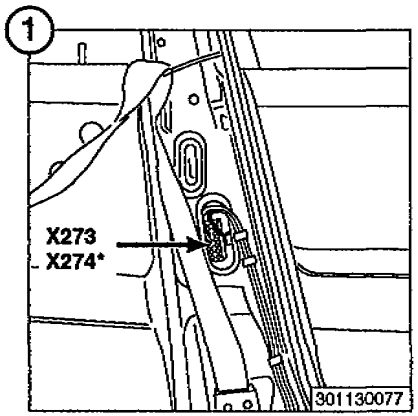
3 Y6120
EVAPORATIVE
EMISSION VALVE

X6120

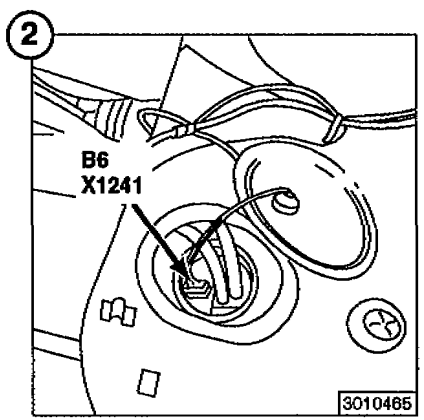
318is

COMPONENT LOCATION VIEWS



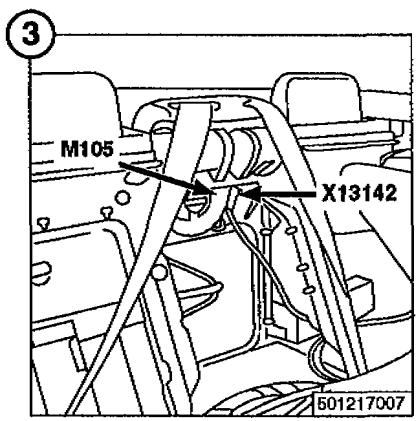


X273
X274



B6
FUEL LEVEL
SENSOR

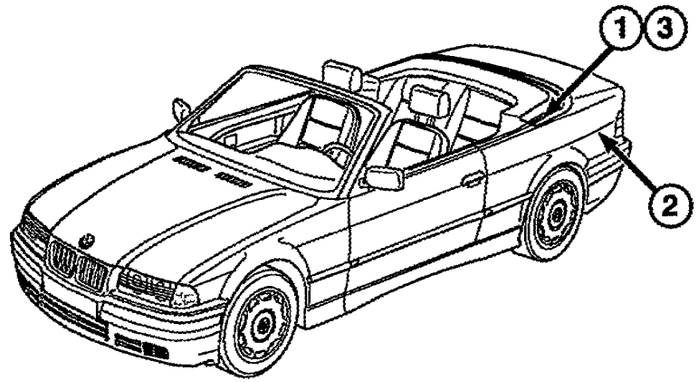
X1241

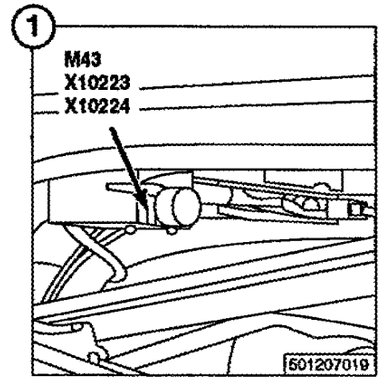


M105
REAR WINDOW
BLOWER

X13142

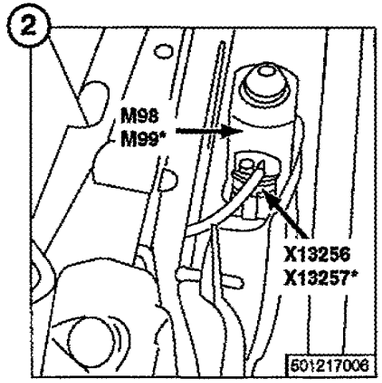
COMPONENT LOCATION VIEWS





M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

X10223
X10224

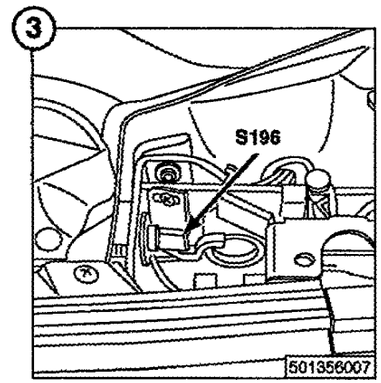


M98 *
LEFT REAR
WINDOW MOTOR

M99 *
RIGHT REAR
WINDOW MOTOR

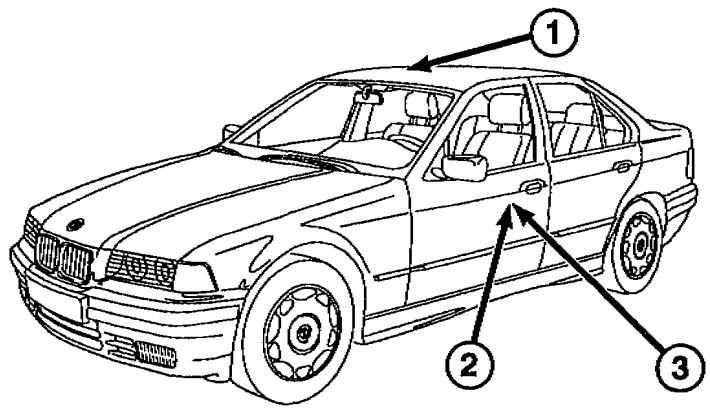
X13256
X13257

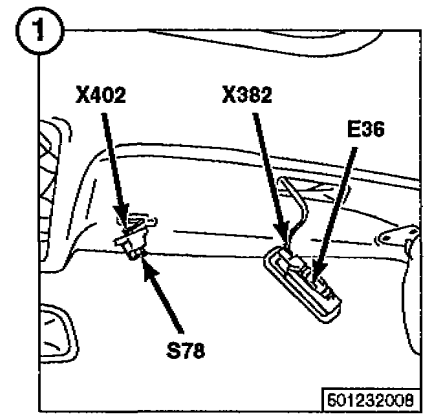
*RH similar



S196
REAR WINDOW
BLOWER MICRO
SWITCH

COMPONENT LOCATION VIEWS

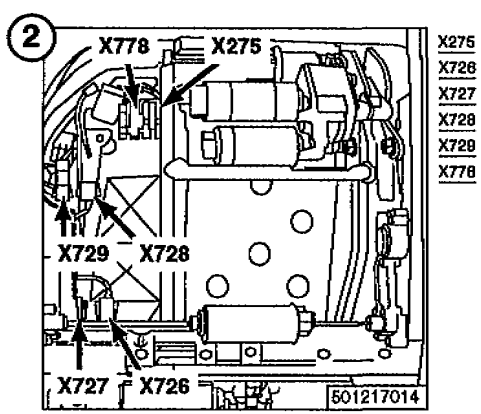




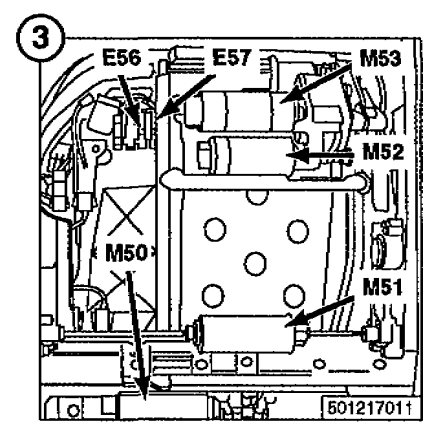
E36
PASSENGER'S MAKEUP MIRROR LIGHT

S78
PASSENGER'S MAKEUP MIRROR SWITCH

X382
X402



X275
X726
X727
X728
X729
X778



E56
DRIVER'S SEAT-BACK HEATER

E57
DRIVER'S SEAT HEATER

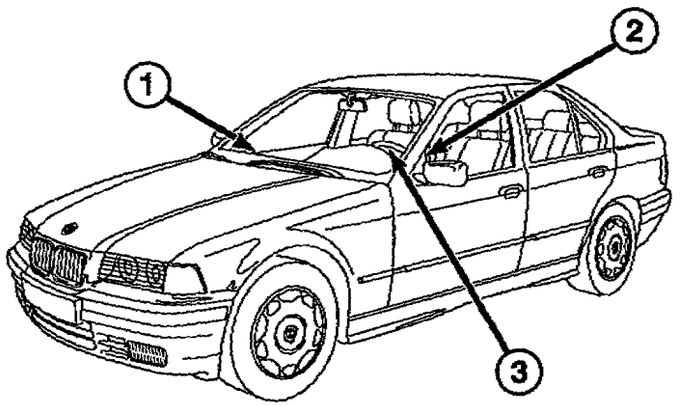
M50
DRIVER'S SEAT CUSHION TILT MOTOR

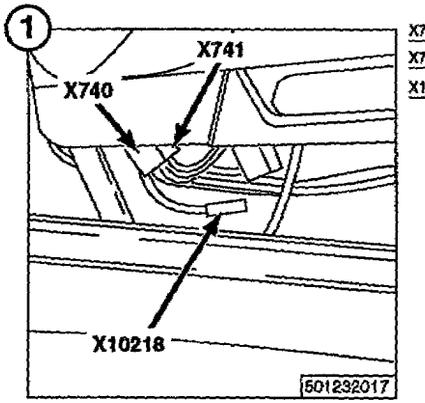
M51
DRIVER'S SEAT MOVEMENT MOTOR

M52
DRIVER'S SEAT HEIGHT MOTOR

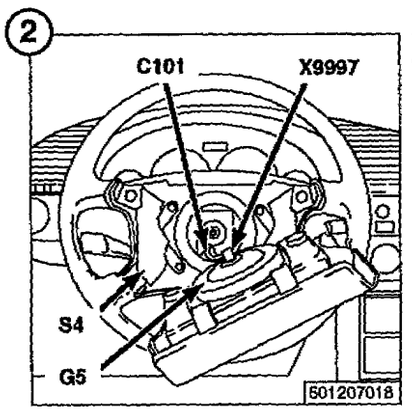
M53
DRIVER'S SEAT-BACK RECLINER MOTOR

COMPONENT LOCATION VIEWS





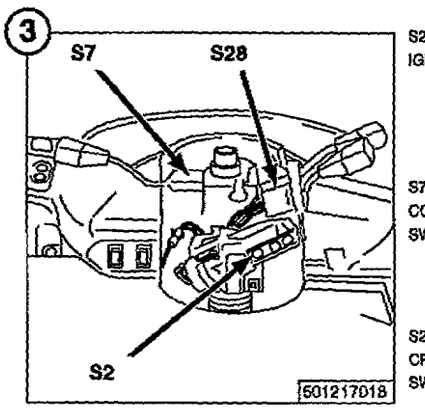
X740
X741
X10218



C101 X9997
CONTACT RING

G5
DRIVER'S AIR BAG
GAS GENERATOR

S4
HORN SWITCH

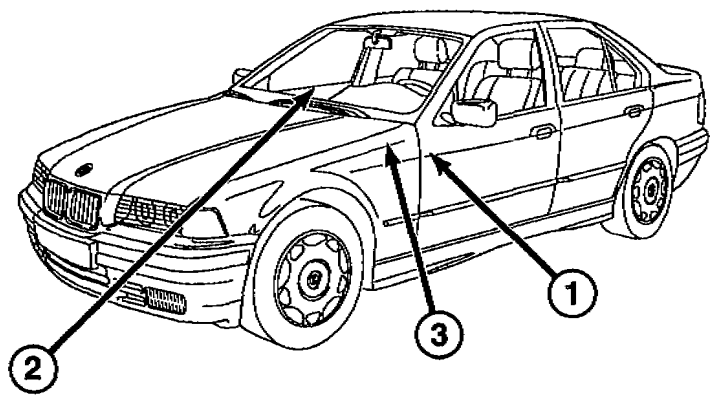


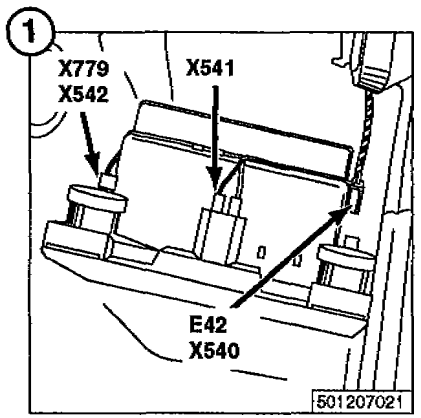
S2
IGNITION SWITCH

S7
COMBINATION
SWITCH

S28
CRUISE CONTROL
SWITCH

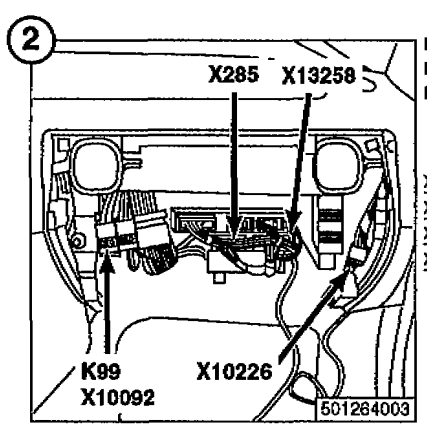
COMPONENT LOCATION VIEWS





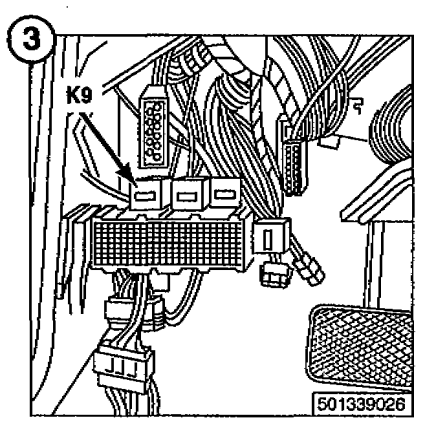
E42
GLOVE BOX LIGHT

X540
X541
X542
X779



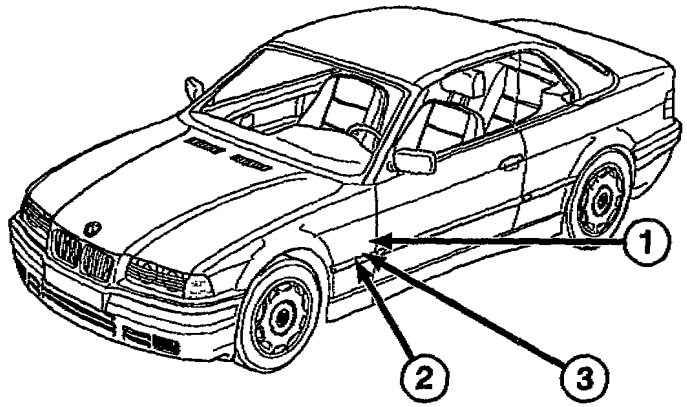
K99
REAR WINDOW
BLOWER RELAY

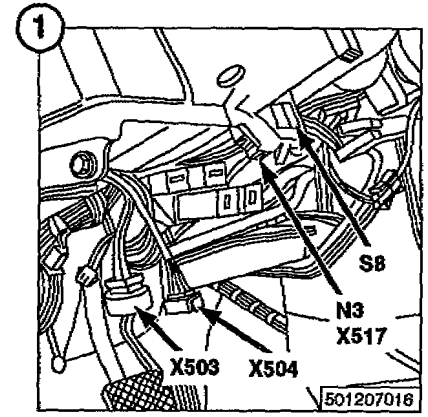
X285
X10092
X10226
X13258



K9
UNLOADER RELAY,
TERMINAL 15

COMPONENT LOCATION VIEWS

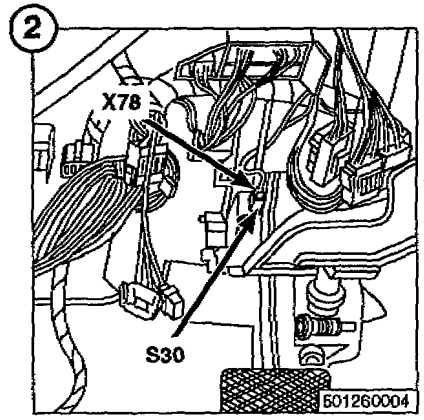




N3
DIMMER

S8
LIGHT SWITCH

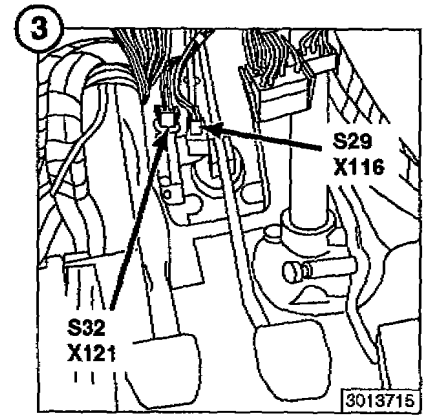
X503
X504
X517



S30
BRAKE LIGHT
SWITCH

X78

AUTOMATIC



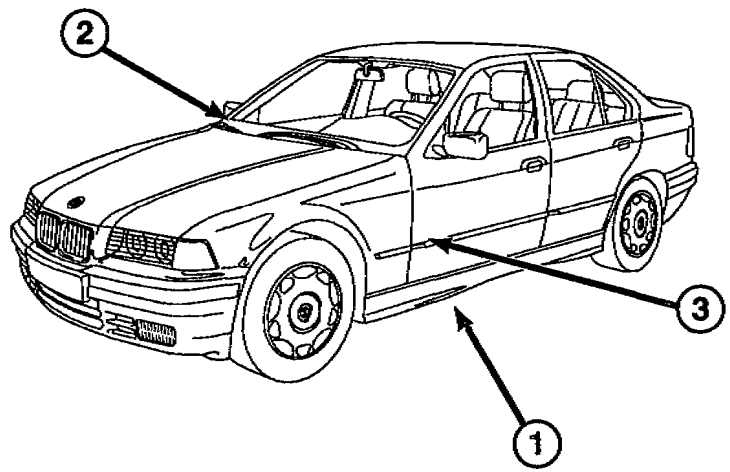
S29
BRAKE LIGHT
SWITCH

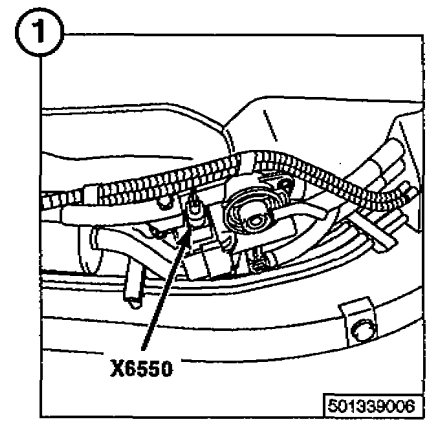
S32
CLUTCH SWITCH

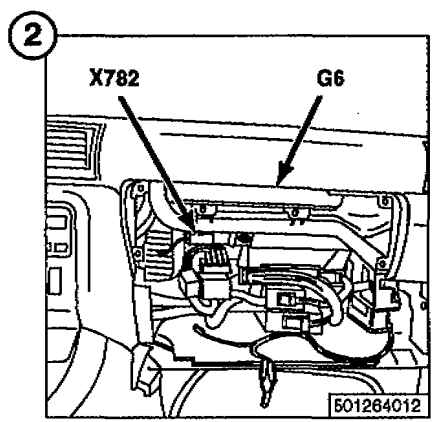
X116
X121

MANUAL

COMPONENT LOCATION VIEWS

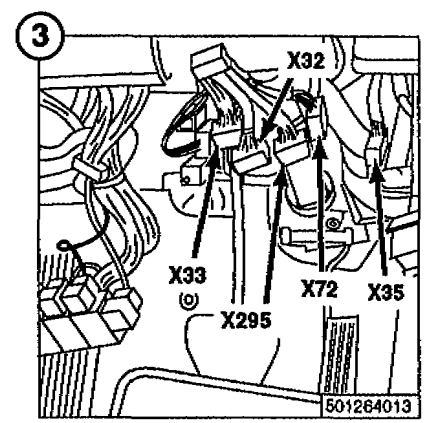




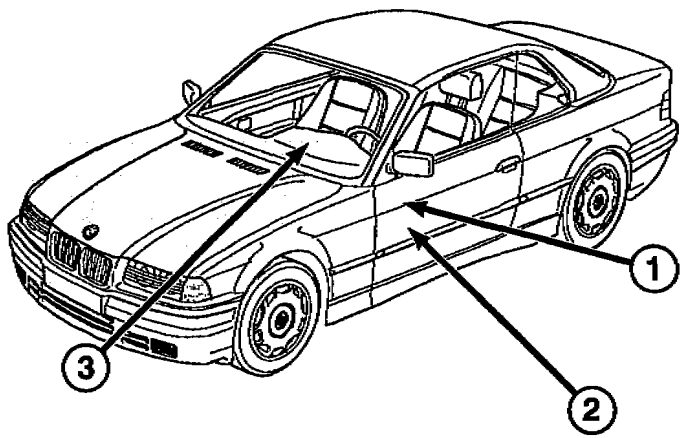


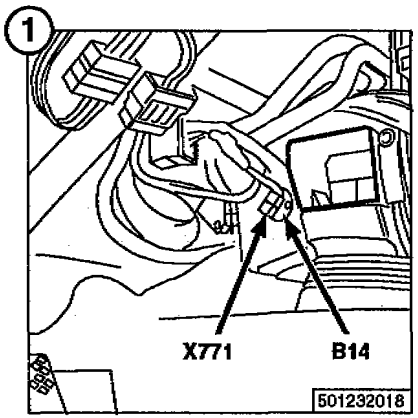
G6
PASSENGER'S AIR BAG GAS GENERATOR

X782



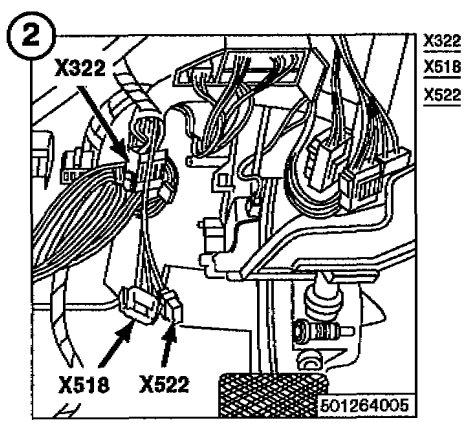
X32
X33
X35
X72
X295



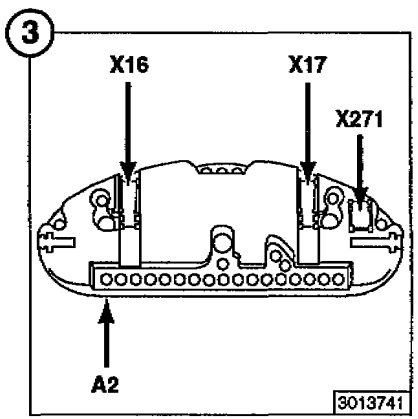


B14
EVAPORATOR
TEMPERATURE
SENSOR

X771
X10054



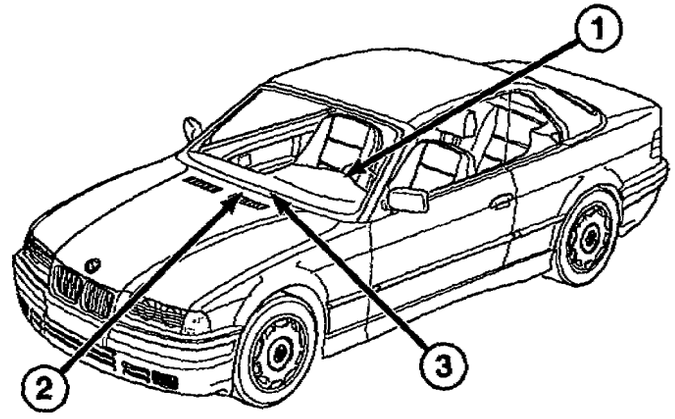
X322
X518
X522

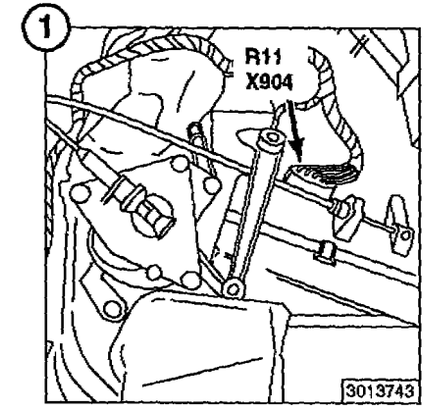


A2
INSTRUMENT
CLUSTER

X16
X17
X271

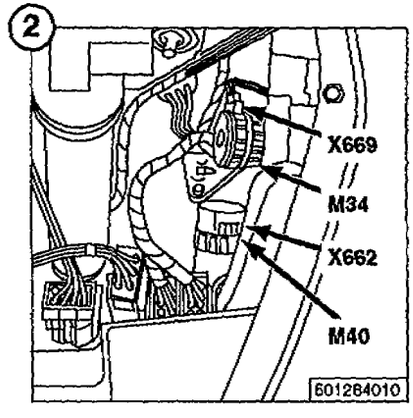
COMPONENT LOCATION VIEWS





R11
BLOWER
RESISTORS

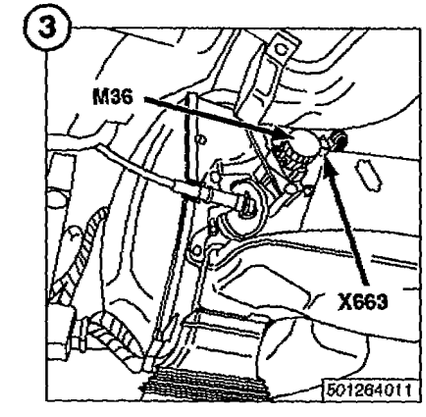
X904



M34
DASH VENT MIX-
ING FLAP MOTOR

M40
RECIRCULATION
FLAP MOTOR

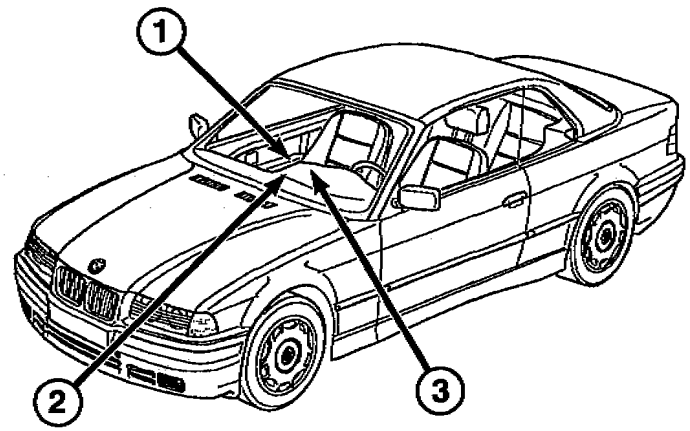
X662
X669

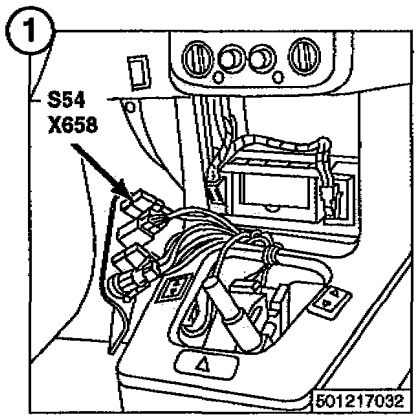


M36
FRESH AIR FLAP
MOTOR

X663

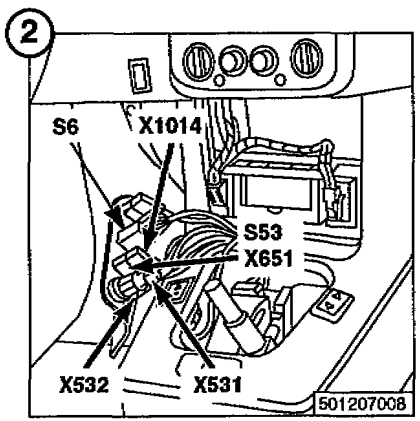
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

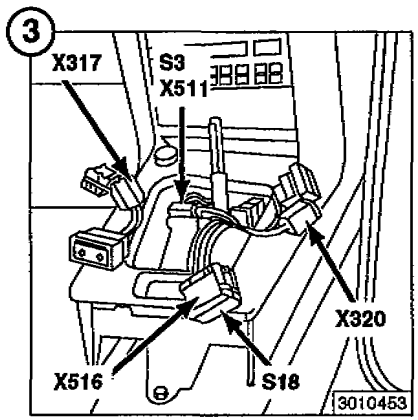
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014

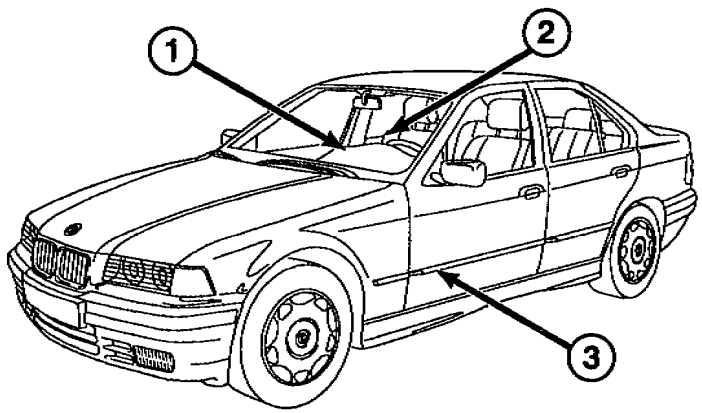


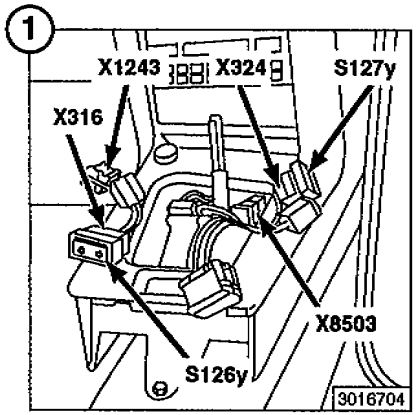
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

S18
HAZARD SWITCH

X317
X320
X511
X516

COMPONENT LOCATION VIEWS

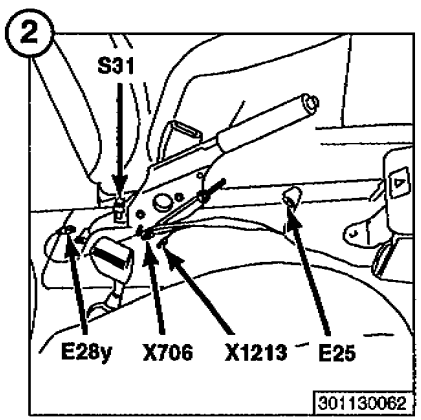




S126y
DRIVER'S POWER WINDOW SWITCH

S127y
PASSENGER'S POWER WINDOW SWITCH

X316
X324
X1243
X8503

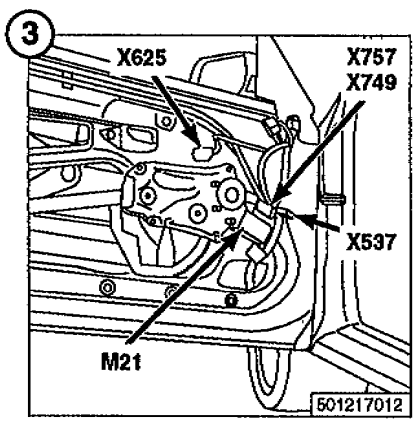


E25
FRONT ASHTRAY LIGHT

X706
X1213

E28y
REAR ASHTRAY LIGHT

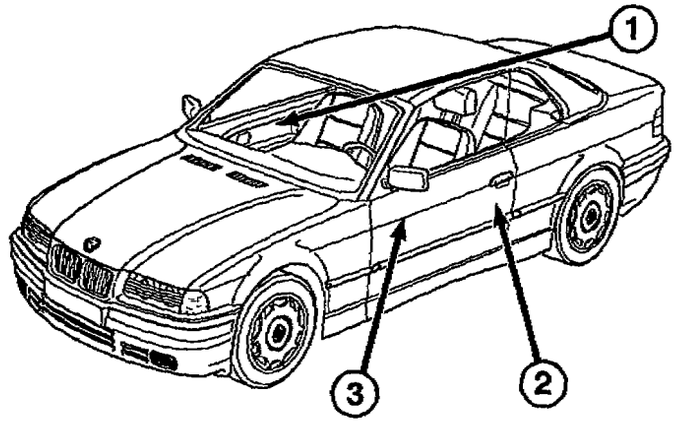
S31
PARK BRAKE SWITCH

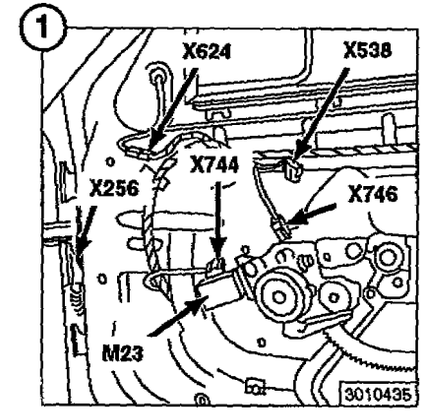


M21
DRIVER'S WINDOW MOTOR

X537
X625
X749
X757

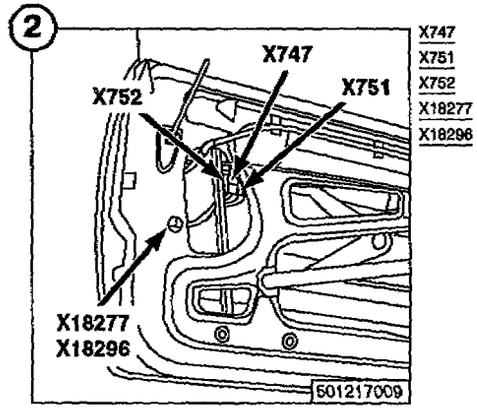
COMPONENT LOCATION VIEWS



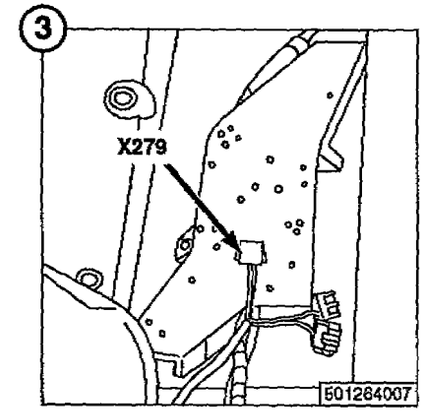


M23
PASSENGER S
WINDOW MOTOR

X256
X538
X624
X744
X746

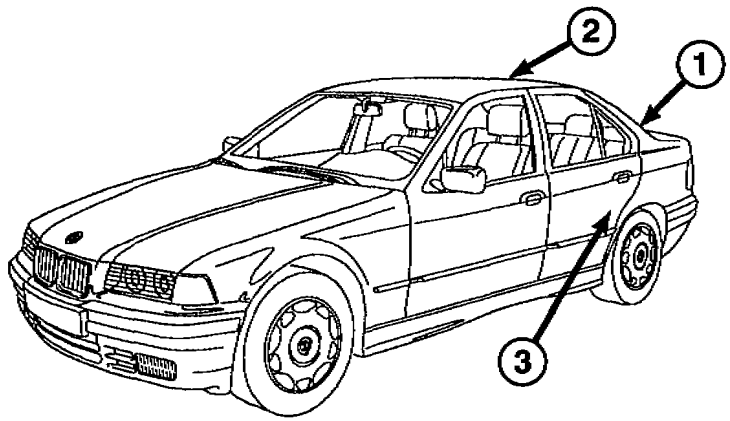


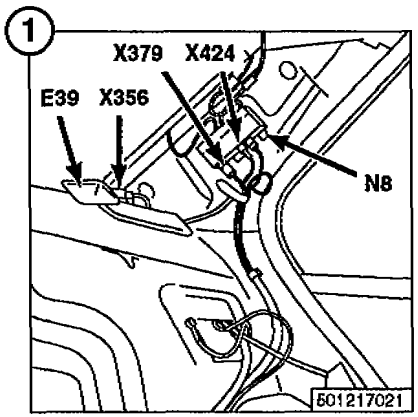
X747
X751
X752
X18277
X18296



X279

COMPONENT LOCATION VIEWS

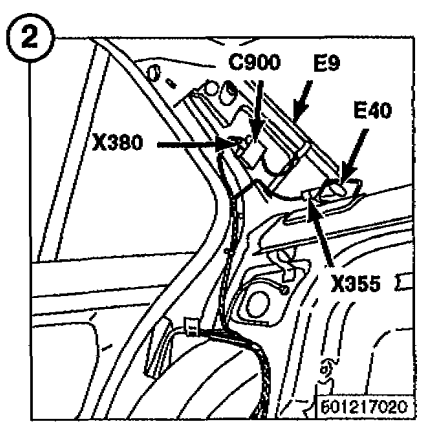




E39
LEFT REAR
INTERIOR LIGHT

N8
ANTENNA
AMPLIFIER AM/FM

X356
X379
X424

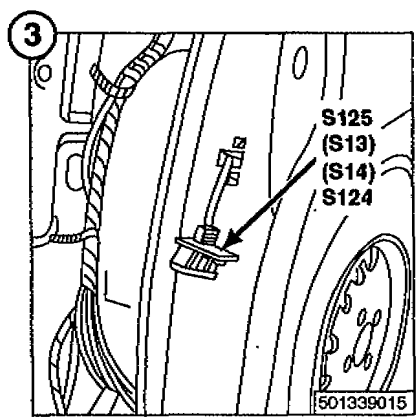


C900
SUPPRESSION
FILTER

X355
X380

E9
REAR DEFOGGER I

E40
RIGHT REAR
INTERIOR LIGHT



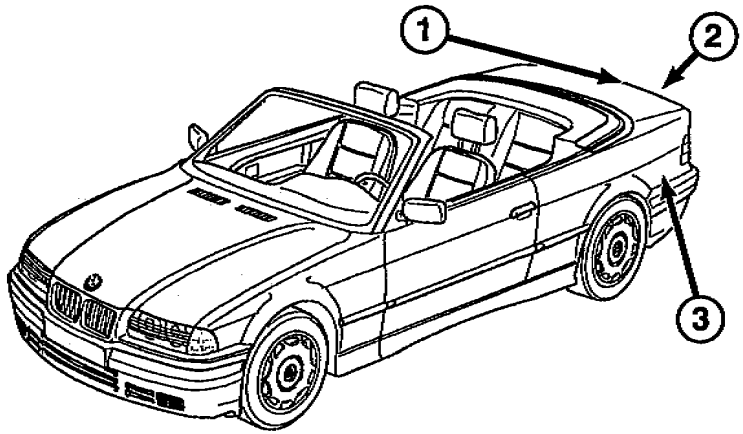
S13
PASSENGER'S
DOOR JAMB
SWITCH

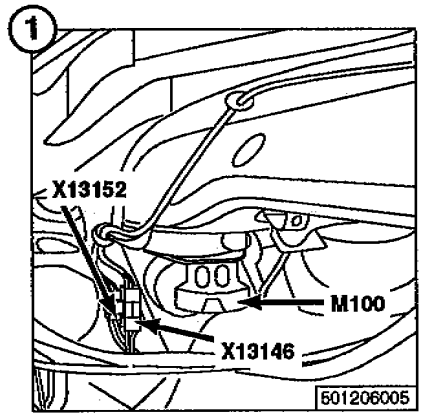
S125
LEFT REAR DOOR
CONTACT

S14
DRIVER'S DOOR
JAMB SWITCH

S124
RIGHT REAR DOOR
CONTACT

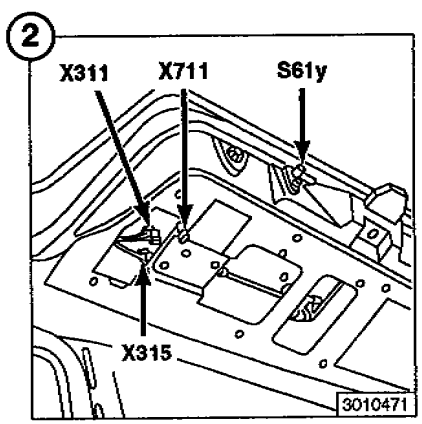
COMPONENT LOCATION VIEWS





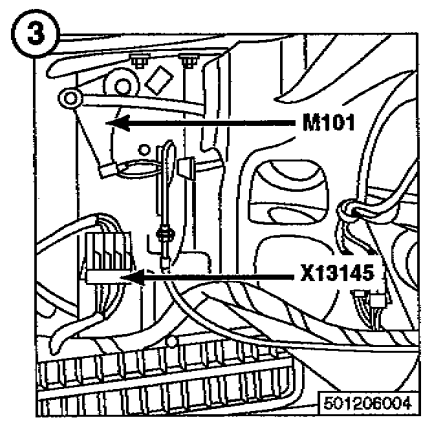
M100
CONVERTIBLE TOP
STORAGE LID
MOTOR

X13146
X13152



S61y
TRUNK LIGHT
SWITCH

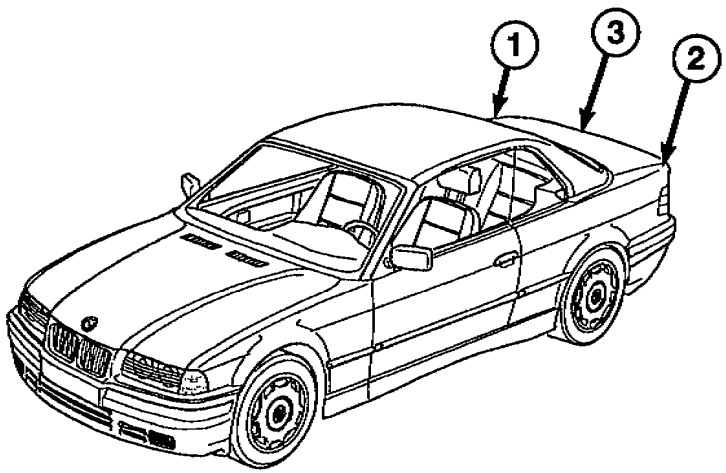
X311
X315
X711

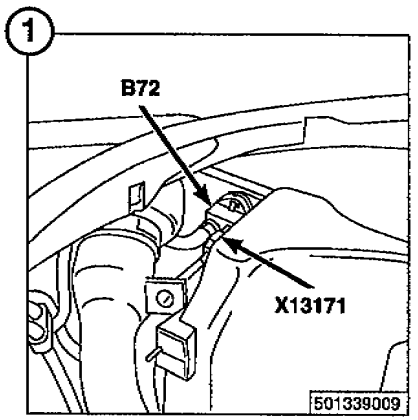


M101
CONVERTIBLE TOP
MOTOR

X13145

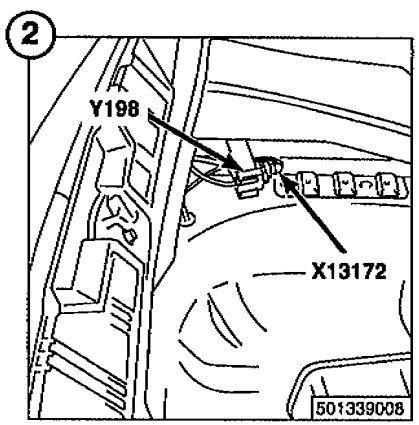
COMPONENT LOCATION VIEWS





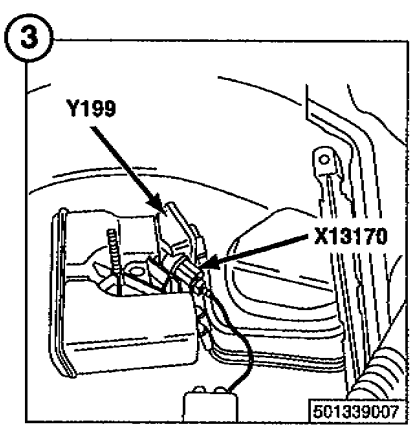
B72
FUEL TANK PRESSURE SENSOR

X13171



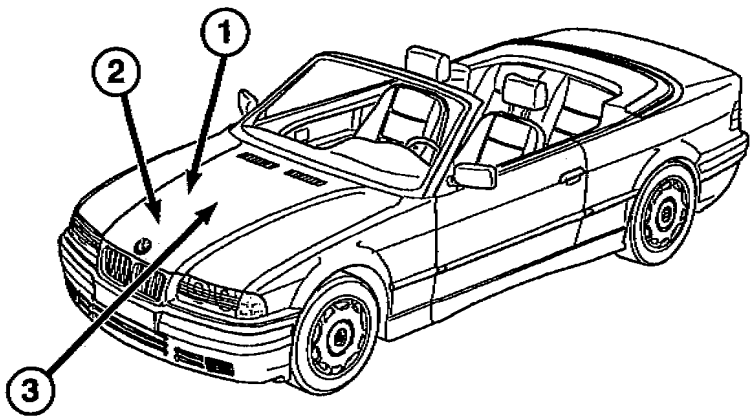
Y198
EXHAUST GAS FLAP VALVE

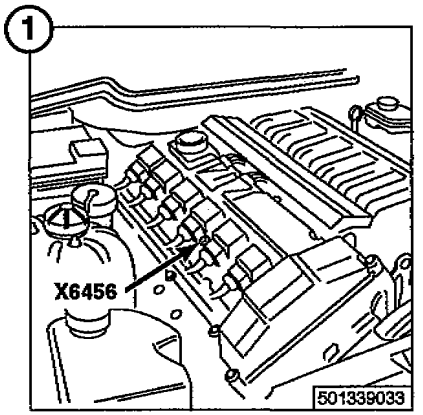
X13172



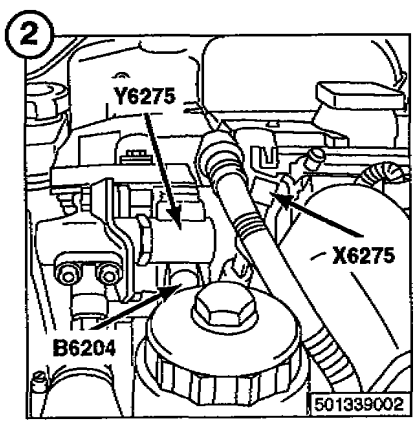
Y199
CARBON CANISTER VALVE

X13170





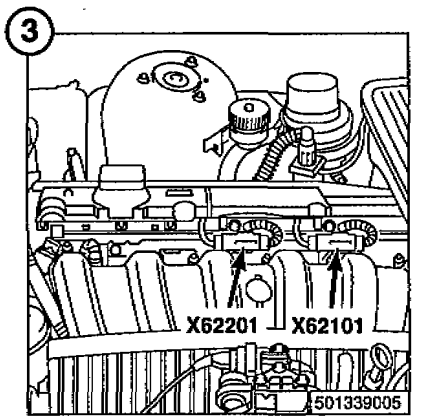
X6456
GROUND



B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER IDEN-
TIFICATION)

Y6275
VARIABLE CAM-
SHAFT CONTROL
VALVE 1

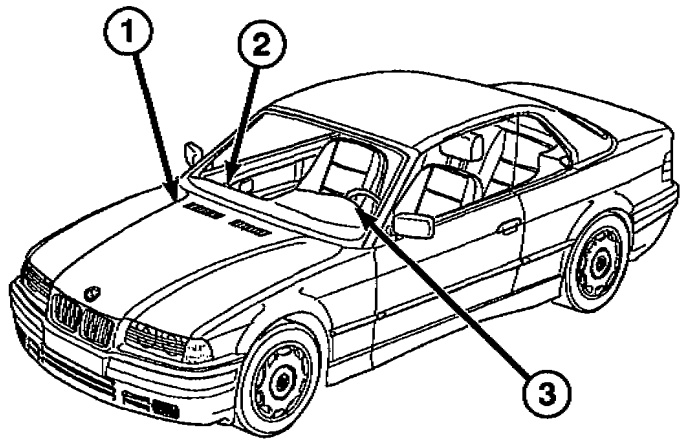
X6275

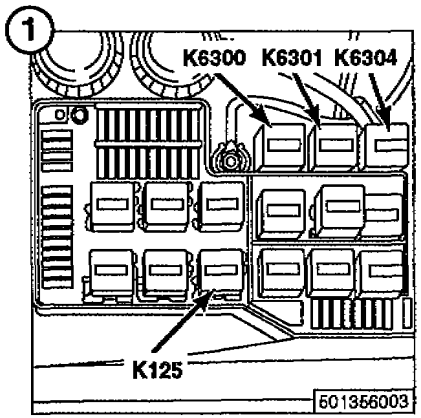


X62101
X62201

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



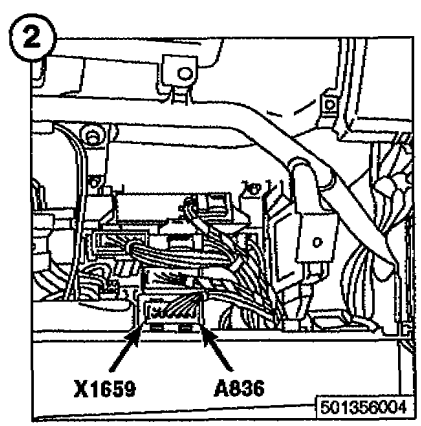


K125
ABS PUMP MOTOR RELAY, TIMED

K6300
ENGINE CONTROL MODULE RELAY

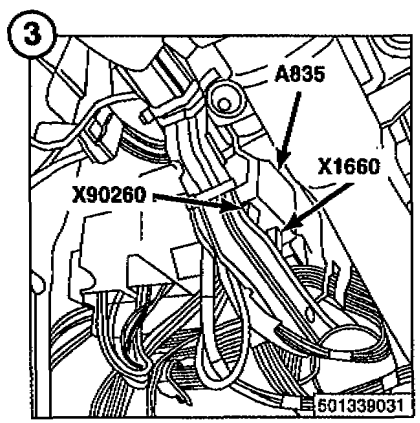
K6301
CYL. 1–6 FUEL PUMP RELAY

K6304
SECONDARY AIR PUMP RELAY



A836
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)

X1659

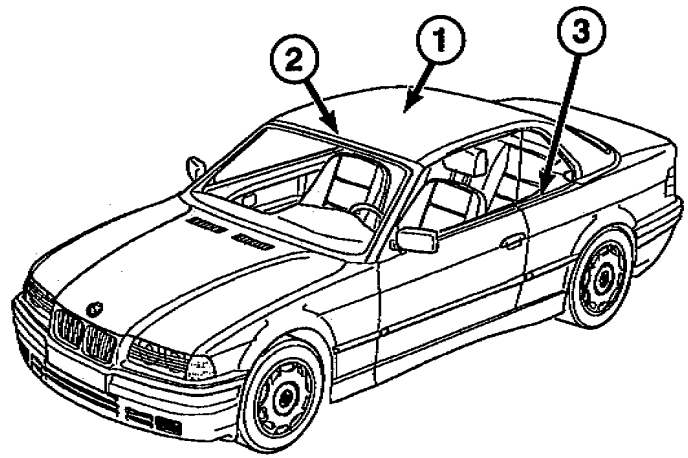


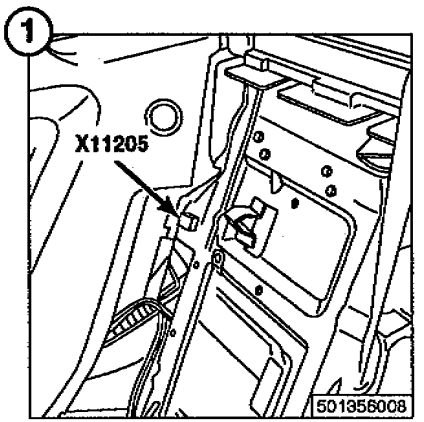
A835
TRANSMITTER MODULE (EWS II)

X1660
X90260

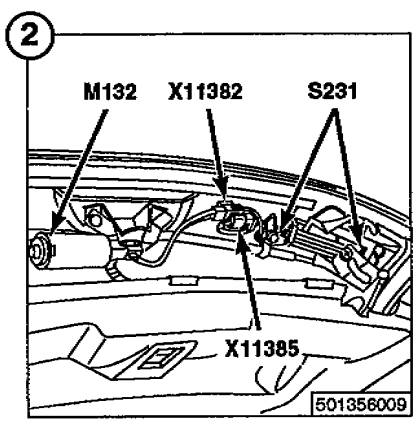
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS





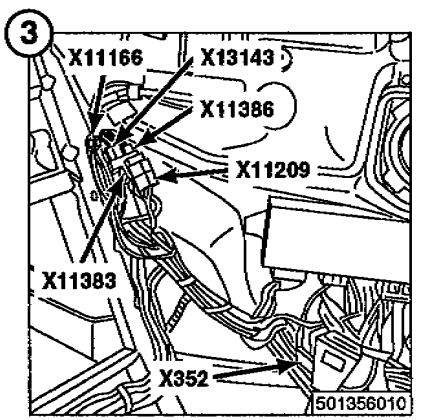
X11205



M132
WINDSCREEN
COWL PANEL
LOCK MOTOR

S231
WINDSCREEN
COWL PANEL
LOCK MICRO-
SWITCH

X11382
X11385



X352
X11166
X11209
X11383
X11386
X13143

SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X181–X276	FRONT	8000.0–02
X313–X314	REAR	8000.0–03
X313–X314	REAR, CONVERTIBLE	8000.0–04
X428–X481	REAR	8000.0–03
X428	REAR, CONVERTIBLE	8000.0–04
X441–X456	REAR, CONVERTIBLE	8000.0–04
X460–X462	REAR, CONVERTIBLE	8000.0–04
X465–X481	REAR, CONVERTIBLE	8000.0–04
X530–X595	FRONT	8000.0–02
X805	REAR	8000.0–03
X805	REAR, CONVERTIBLE	8000.0–04
X824–X830	RADIO	NOT SHOWN
X849–X851	DRIVER'S DOOR	NOT SHOWN
X876–X878	RADIO	NOT SHOWN
X906	IHKR	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015–X1164	FRONT	8000.0–02
X1167	REAR	8000.0–03
X1168–X1192	FRONT	8000.0–02
X1212–X1218	REAR	8000.0–03
X1212–X1238	REAR, CONVERTIBLE	8000.0–04
X1225–X1233	FRONT	8000.0–02
X1226–X1235	REAR	8000.0–03
X1258	FRONT	8000.0–02
X1299	REAR	8000.0–03
X1382–X1383	RADIO	W22
X1387–X1396	REAR	8000.0–03
X1387–X1396	REAR, CONVERTIBLE	8000.0–04

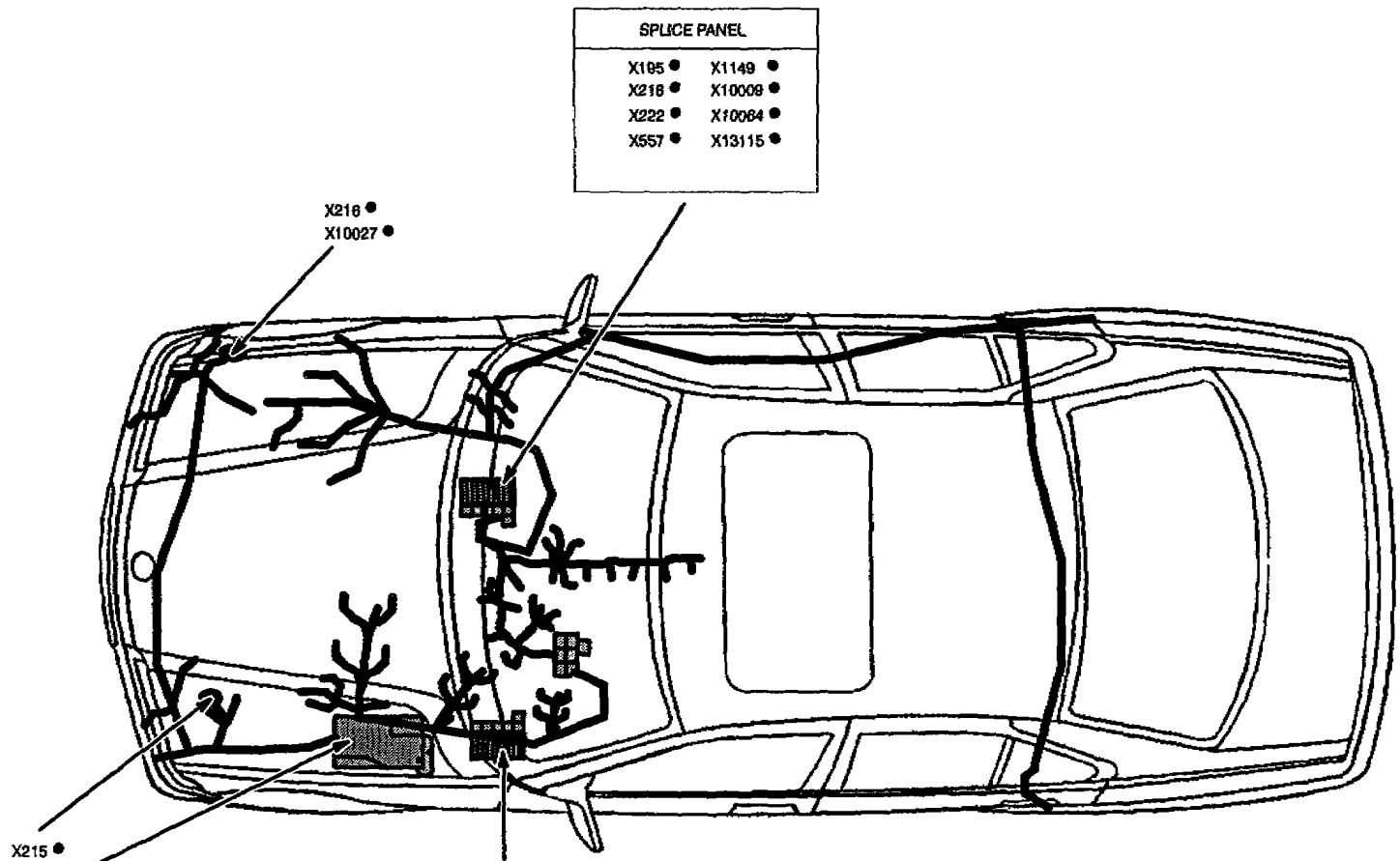
SPLICE	HARNESS	PAGE NUMBER
X5018–X5035	S50 ENGINE	8000.0–06
X6410	M42/M43 ENGINE	8000.0–05
X6410	M50 ENGINE	8000.0–07
X6410–X6411	M44 ENGINE	8000.0–08
X6410–X6492	S50 ENGINE	8000.0–06
X6411	M50 ENGINE	8000.0–07
X6411–X6420	M52 ENGINE	8000.0–09
X6458–X6459	M52 ENGINE	8000.0–09
X6458–X6492	M42/M43 ENGINE	8000.0–05
X6458–X6461	M50 ENGINE	8000.0–07
X6460–X6463	M44 ENGINE	8000.0–08
X6475	M50 ENGINE	8000.0–07
X6475	M52 ENGINE	8000.0–09
X6491	M50 ENGINE	8000.0–07
X6492	M50 ENGINE	8000.0–07
X6492	M44 ENGINE	8000.0–08
X6492	M52 ENGINE	8000.0–09
X6810–X6823	M52 ENGINE	8000.0–09
X6810–X6866	M42/M43 ENGINE	8000.0–05
X6810–X6866	S50 ENGINE	8000.0–06
X6810	M50 ENGINE	8000.0–07
X6820–X6821	M44 ENGINE	8000.0–08
X6820–X6822	M50 ENGINE	8000.0–07
X6830–X6831	M50 ENGINE	8000.0–07
X6832	M44 ENGINE	8000.0–08
X6832–X6835	M52 ENGINE	8000.0–09
X6833	M44 ENGINE	8000.0–08
X6835	M44 ENGINE	8000.0–08

SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X6835–X6836	M50 ENGINE	8000.0–07
X6860–X6869	M52 ENGINE	8000.0–09
X6860–X6891	M44 ENGINE	8000.0–08
X6863–X6866	M50 ENGINE	8000.0–07
X6900	M44 ENGINE	8000.0–08
X6900	M52 ENGINE	8000.0–09
X6900–X6906	M50 ENGINE	8000.0–07
X6900–X6906	S50 ENGINE	8000.0–06
X7845–X7846	M44 ENGINE	8000.0–08
X8000–X8015	M52 ENGINE	8000.0–09
X8004	M50 ENGINE	8000.0–07
X8004	S50 ENGINE	8000.0–06
X8004–X8015	M44 ENGINE	8000.0–08
X8004–X8576	M42/M43 ENGINE	8000.0–05
X8007	M50 ENGINE	8000.0–07
X8010	M50 ENGINE	8000.0–07
X8015	M50 ENGINE	8000.0–07
X8022	M50 ENGINE	8000.0–07
X8025	M50 ENGINE	8000.0–07
X8038	M52 ENGINE	8000.0–09
X8042	M50 ENGINE	8000.0–07
X8051	M50 ENGINE	8000.0–07
X8056	M50 ENGINE	8000.0–07
X8056–X8073	M44 ENGINE	8000.0–08
X8065	M50 ENGINE	8000.0–07
X8071–8074	M50 ENGINE	8000.0–07
X8071–8074	M52 ENGINE	8000.0–09
X8084	M50 ENGINE	8000.0–07
X8103	M52 ENGINE	8000.0–09
X8564–X8576	M44 ENGINE	8000.0–08
X8564–X8576	M52 ENGINE	8000.0–09
X8565	M52 ENGINE	8000.0–09
X10007–X10100	FRONT	8000.0–02
X10118	REAR, CONVERTIBLE	8000.0–04
X10169	M44 ENGINE	8000.0–08
X10251–10252	FRONT	8000.0–02
X10120–X10192	FRONT	8000.0–02
X10189–X10229	REAR, CONVERTIBLE	8000.0–04
X13002–X13011	REAR	8000.0–03
X13002–X13011	REAR, CONVERTIBLE	8000.0–04
X13021–X13115	FRONT	8000.0–02
X13007–X13273	REAR, CONVERTIBLE	8000.0–04
X18160–X18161	IHKR	NOT SHOWN
X18165	FRONT	8000.0–02
X18251	DRIVER'S DOOR	NOT SHOWN
X18252	PASSENGER'S DOOR	NOT SHOWN
X18253	DRIVER'S DOOR	NOT SHOWN
X18254–X18284	PASSENGER'S DOOR	NOT SHOWN
X18783–X18784	FRONT	8000.0–02
X18785–X18799	REAR, CONVERTIBLE	8000.0–04
X19513–X19514	RADIO	NOT SHOWN
X69008–X69009	S50 ENGINE	8000.0–06

SPLICE LOCATION VIEWS

FRONT HARNESS

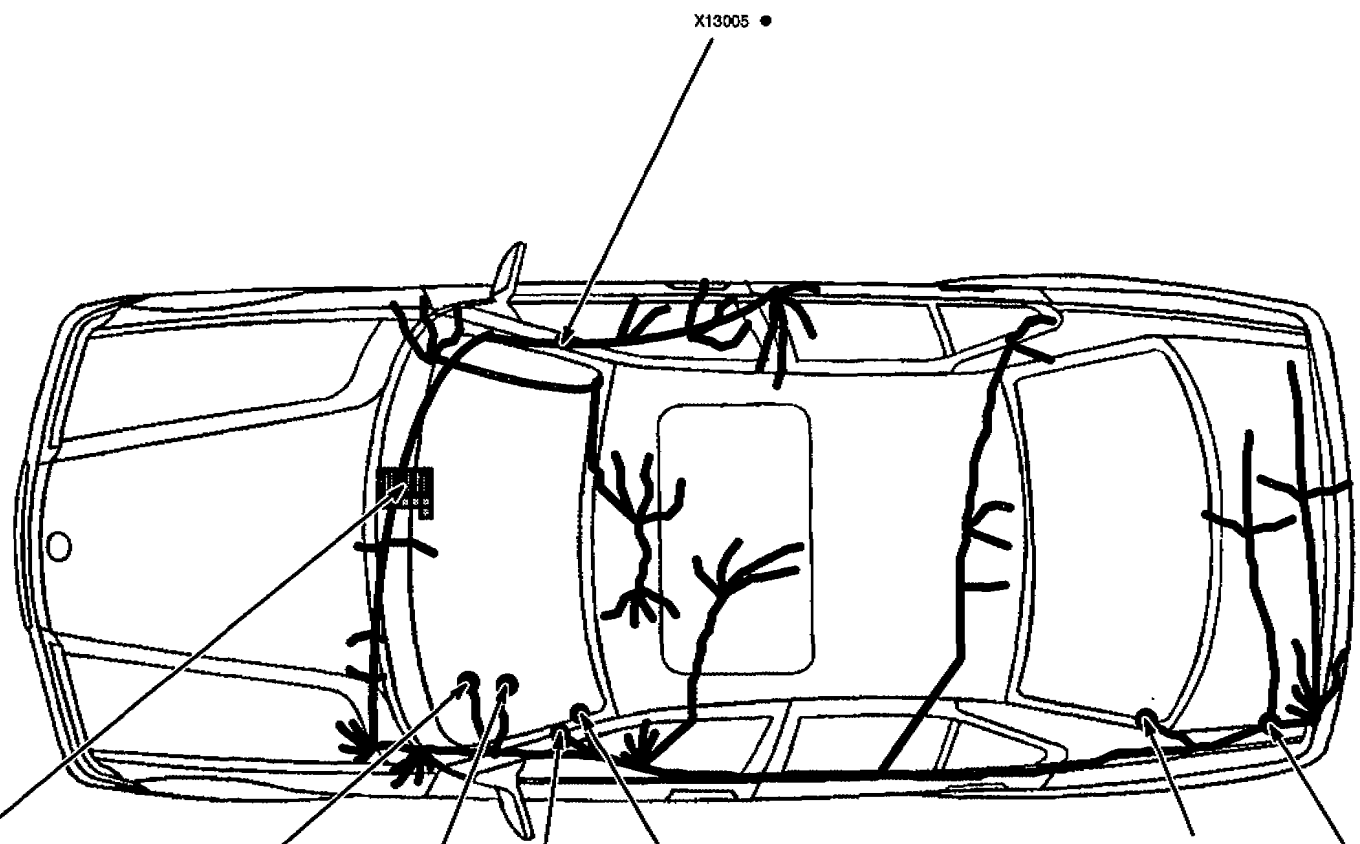


SPLICE PANEL					
X184 ●	X245 ●	X1027 ●	X1077 ●	X1177 ●	X10022 ●
X185 ●	X246 ●	X1028 ●	X1152 ●	X1186 ●	X10055 ●
X186 ●	X276 ●	X1036 ●	X1159 ●	X1192 ●	X10100 ●
X187 ●	X530 ●	X1055 ●	X1163 ●	X1233 ●	X18783 ●
X203 ●	X595 ●	X1068 ●	X1164 ●	X10007 ●	X18784 ●
X223 ●	X1015 ●	X1073 ●	X1168 ●	X10020 ●	
X236 ●	X1022 ●	X1076 ●	X1172 ●	X10021 ●	

SPLICE PANEL						
X181 ●	X213 ●	X1067 ●	X1179 ●	X10028 ●	X10120 ●	X11264 ●
X182 ●	X228 ●	X1069 ●	X1182 ●	X10029 ●	X10123 ●	X13021 ●
X183 ●	X1019 ●	X1079 ●	X1225 ●	X10060 ●	X10181 ●	X18165 ●
X188 ●	X1029 ●	X1080 ●	X1258 ●	X10061 ●	X10192 ●	
X191 ●	X1047 ●	X1085 ●	X10008 ●	X10090 ●	X10231 ●	
X196 ●	X1065 ●	X1159 ●	X10011 ●	X10103 ●	X10251 ●	
X197 ●	X1066 ●	X1169 ●	X10024 ●	X10104 ●	X10252 ●	

SPLICE LOCATION VIEWS

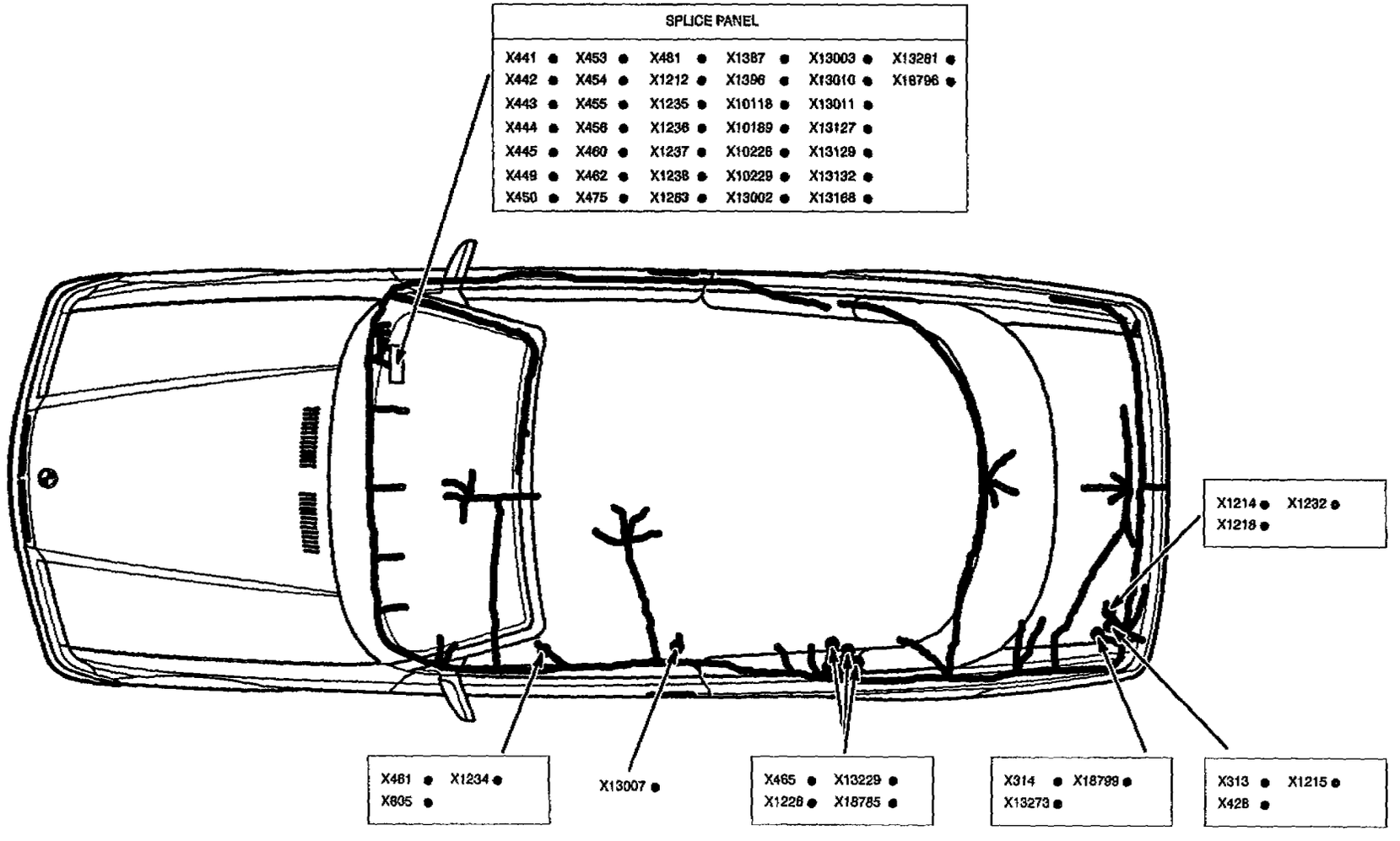
REAR HARNESS



SPLICE PANEL		
X441	X462	X1396
X442	X475	X13002
X443	X481	X13003
X444	X1212	X13010
X445	X1235	X13011
X449	X1299	
X450	X1387	

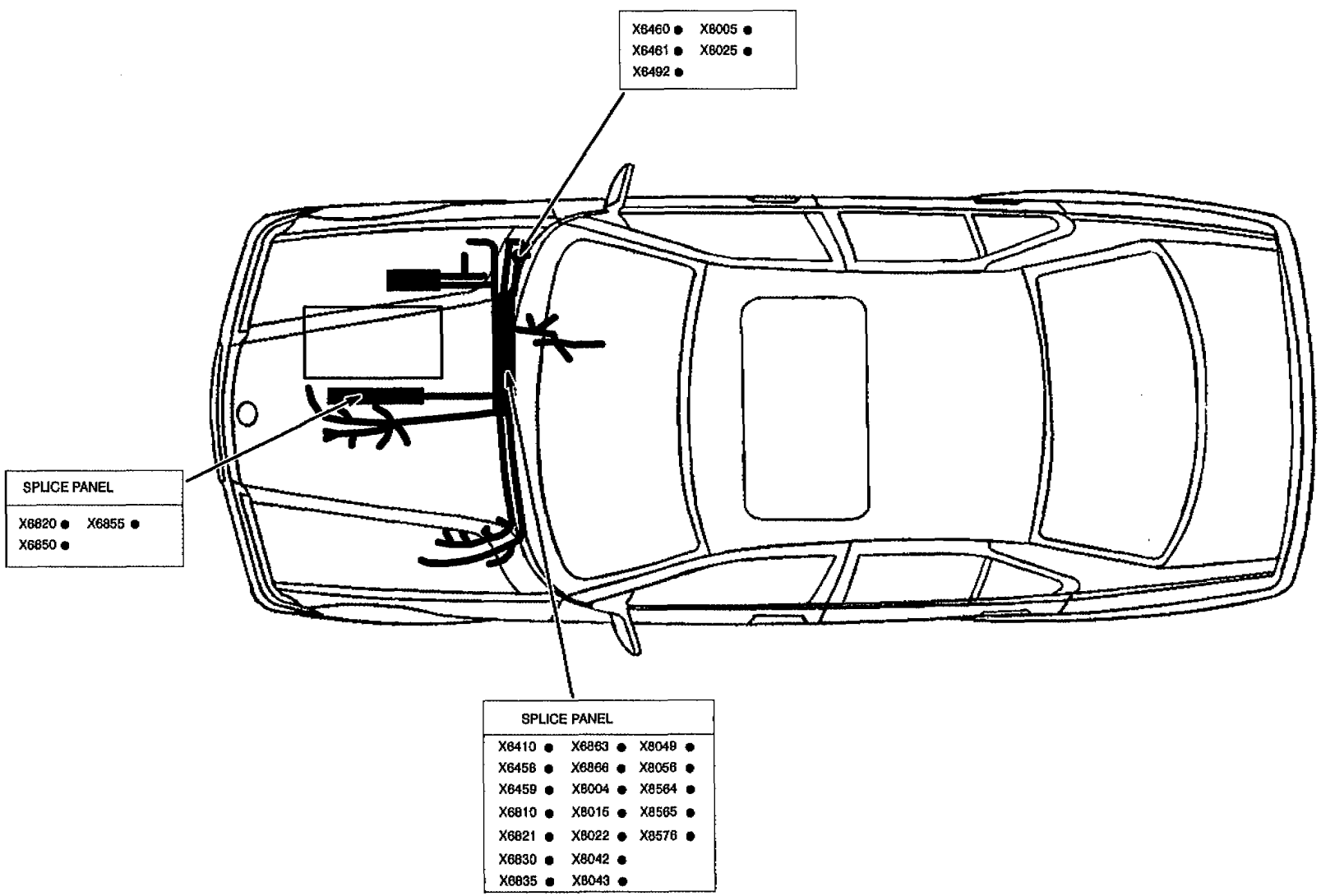
SPLICE LOCATION VIEWS

REAR WIRING HARNESS – CONVERTIBLE



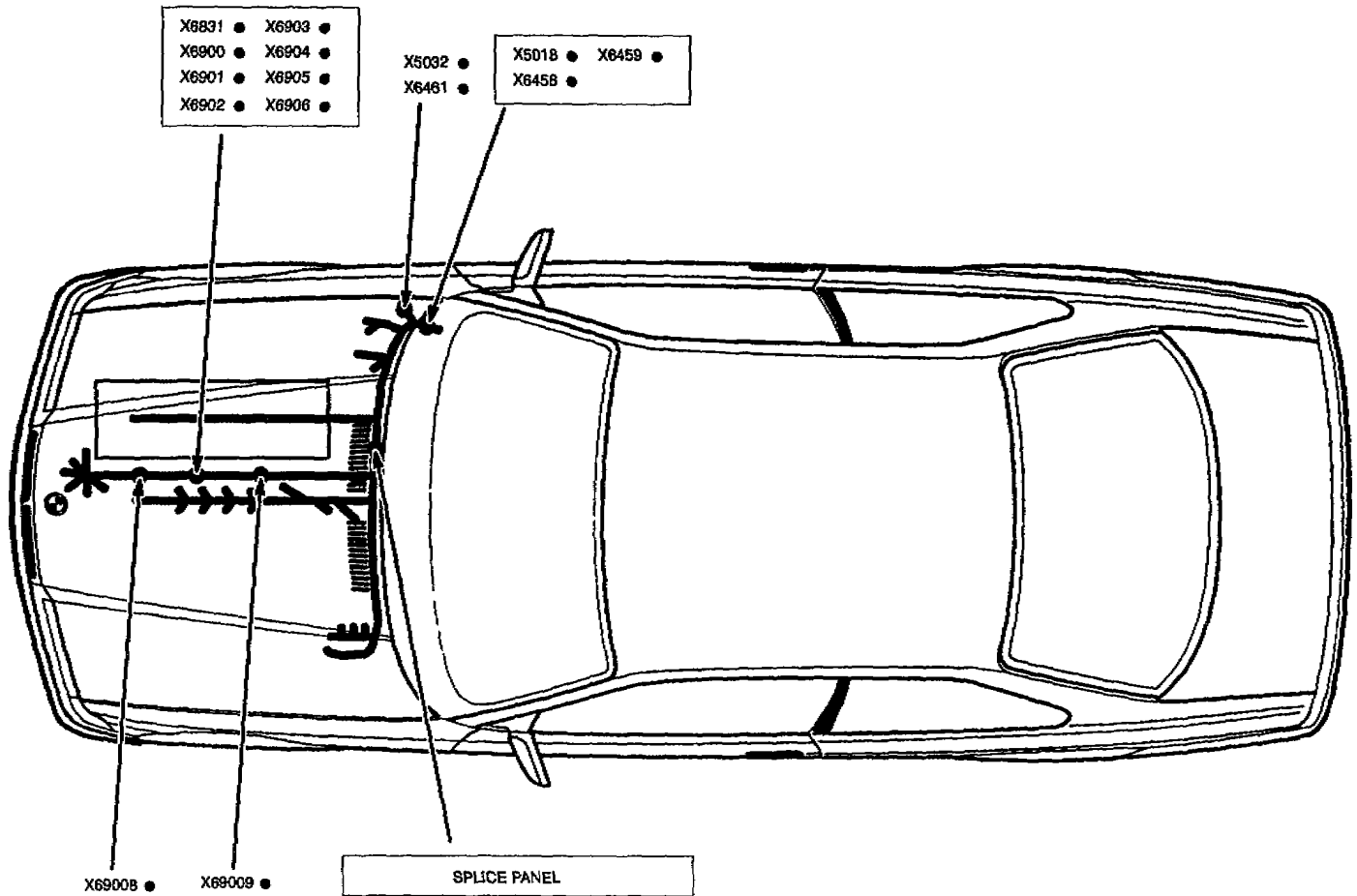
SPLICE LOCATION VIEWS

ENGINE HARNESS M42/M43



SPLICE LOCATION VIEWS

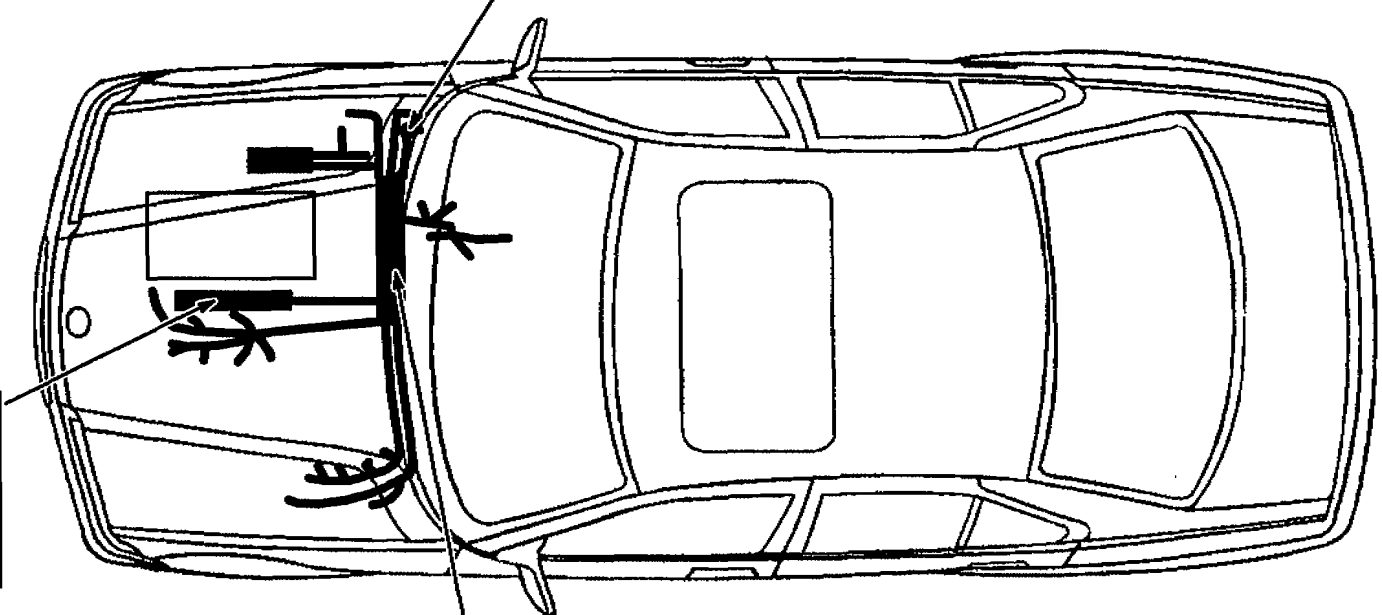
ENGINE HARNESS S50



SPLICE PANEL			
X5035	X6482	X6490	X6822
X6410	X6484	X6491	X6835
X6411	X6485	X6492	X6863
X6413	X6486	X6810	X6866
X6463	X6487	X6811	X8004
X6475	X6488	X6820	
X6480	X6489	X6821	

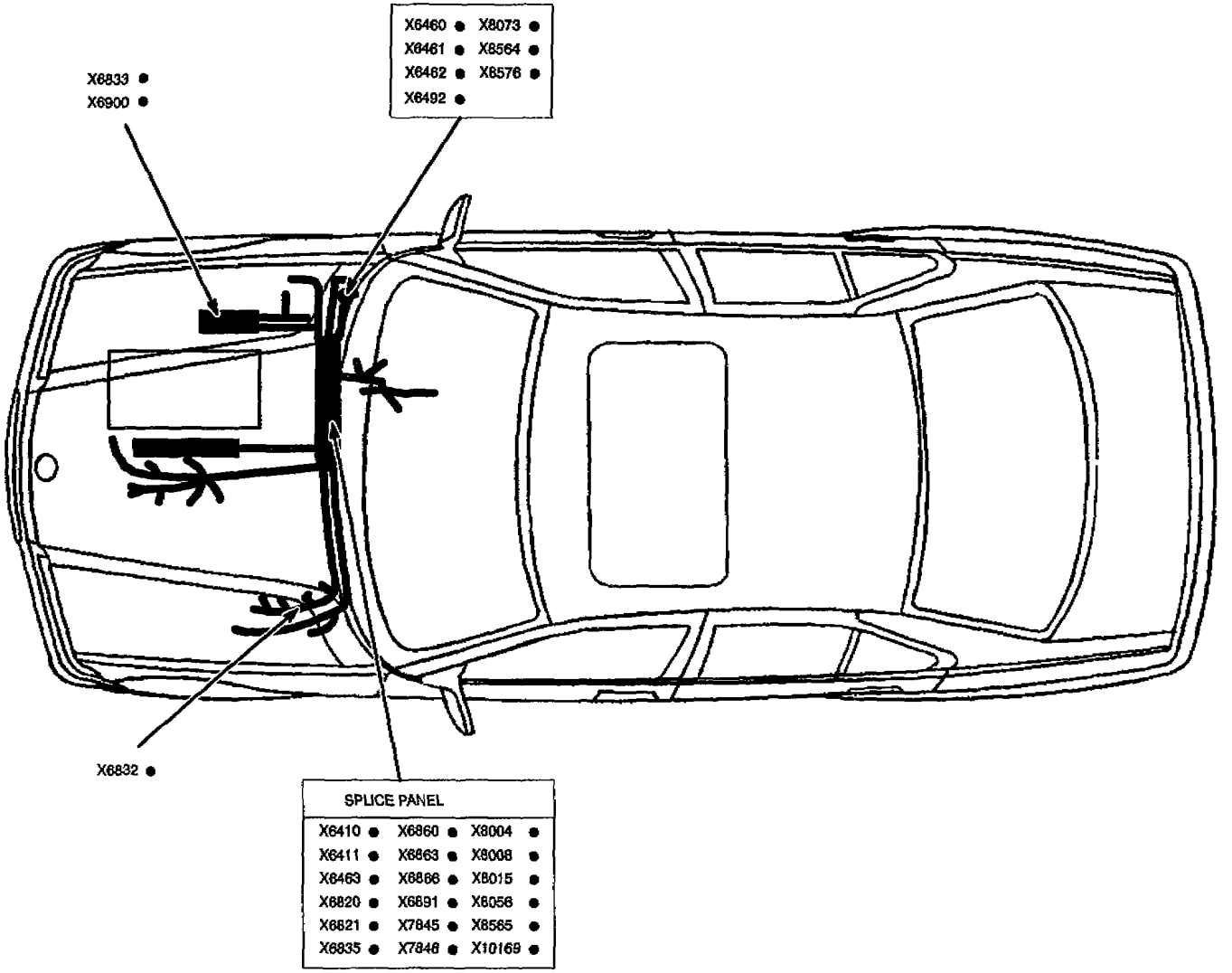
SPLICE LOCATION VIEWS

M50 ENGINE HARNESS



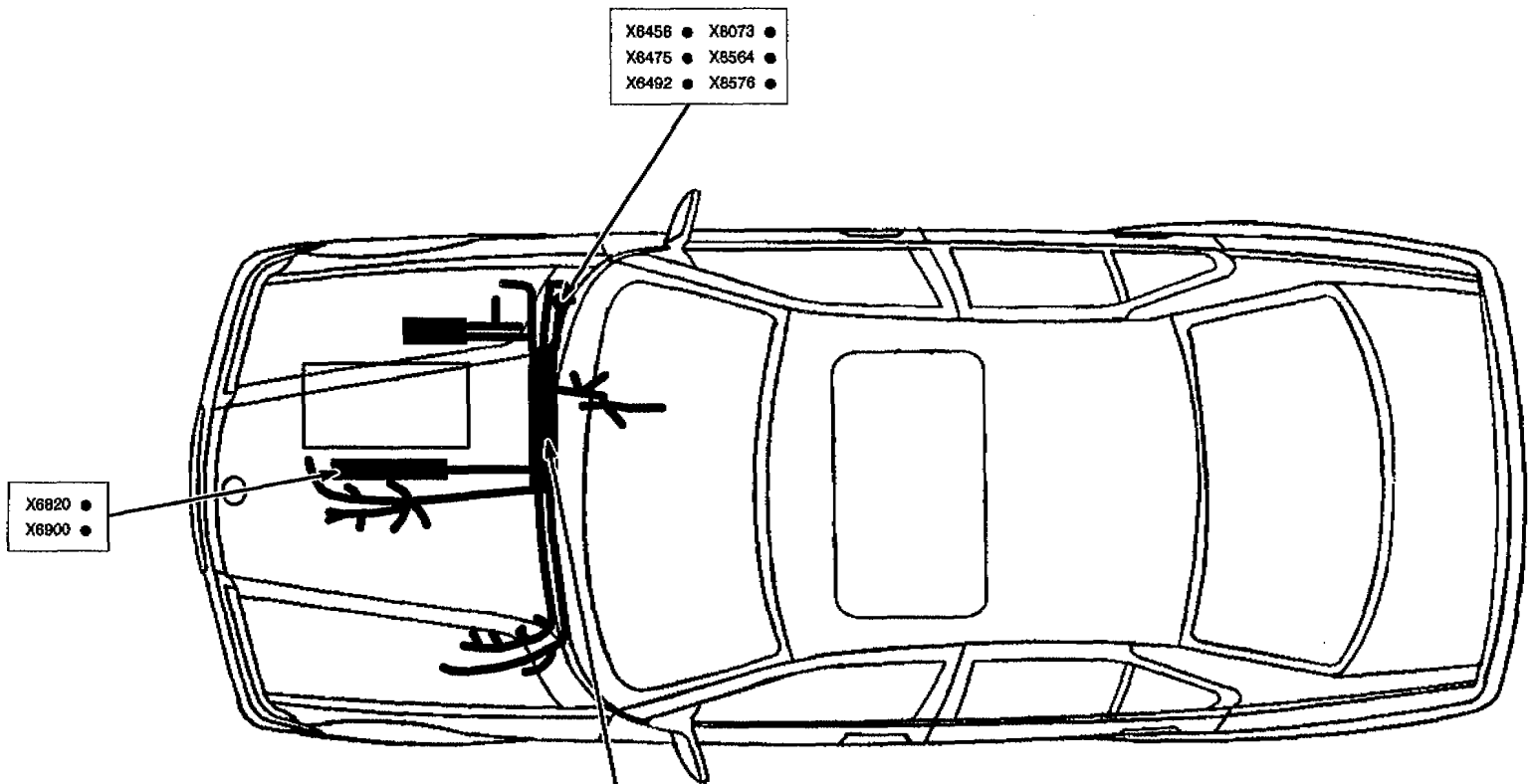
SPLICE LOCATION VIEWS

ENGINE HARNESS M44



SPLICE LOCATION VIEWS

ENGINE HARNESS M52



SPLICE PANEL			
X6411 ●	X6823 ●	X6868 ●	X803B ●
X6412 ●	X6832 ●	X6869 ●	X8071 ●
X6420 ●	X6835 ●	X8000 ●	X8072 ●
X6459 ●	X6860 ●	X8004 ●	X8074 ●
X6810 ●	X6863 ●	X8007 ●	X8103 ●
X6821 ●	X6866 ●	X8010 ●	X8565 ●
X6822 ●	X6867 ●	X8015 ●	

FIG. 1

B550001.03

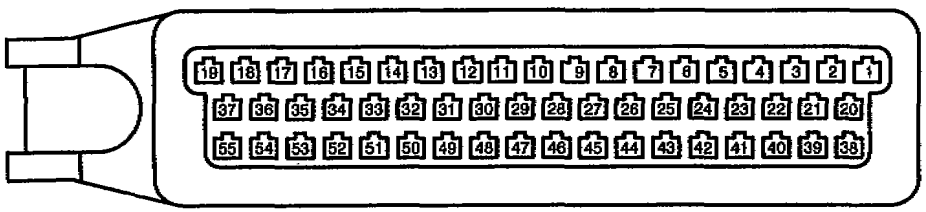


FIG. 2

B260005.00

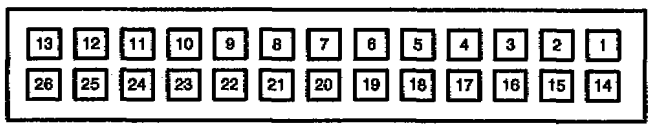


FIG. 3

B150003.00

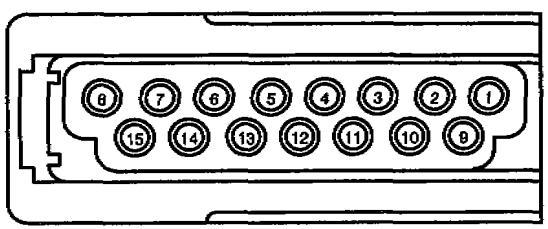
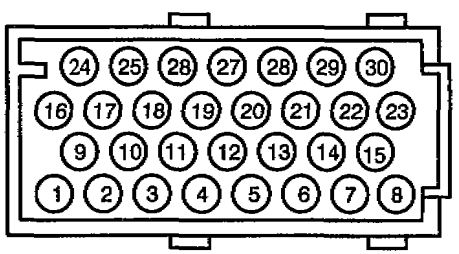


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

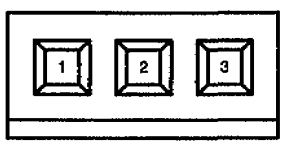


FIG. 2

B120003.00

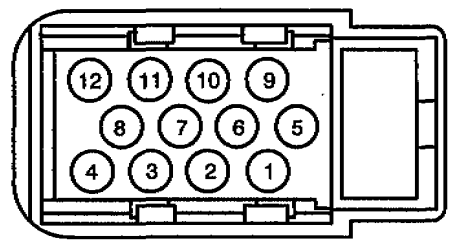


FIG. 3

B120001.00

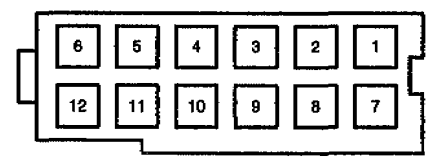


FIG. 4

B080002.00

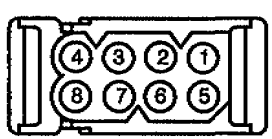


FIG. 5

B180000.00

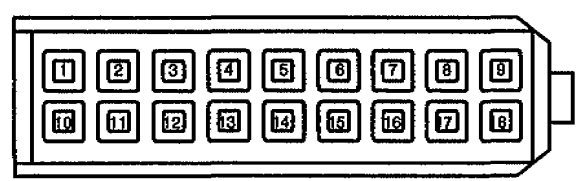
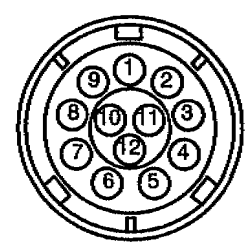


FIG. 6

B120015



CONNECTOR VIEWS

FIG. 1

B030001.00

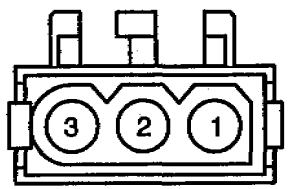


FIG. 2

B070007.00

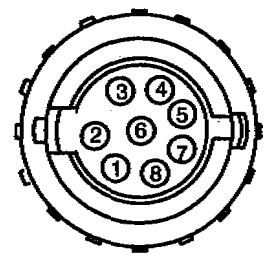


FIG. 3

B170001.00

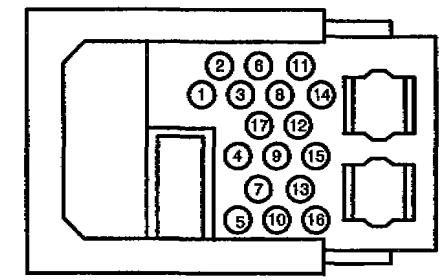


FIG. 4

B100008.00

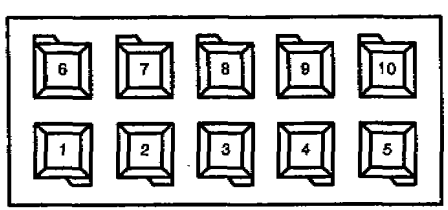


FIG. 5

B030005.00

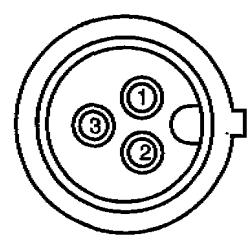
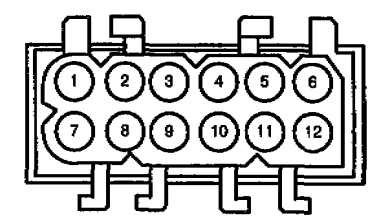


FIG. 6

B120004.01



CONNECTOR VIEWS

FIG. 1

B040002.00

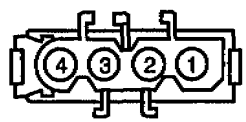


FIG. 2

B050003.00

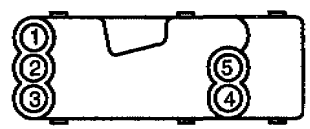


FIG. 3

B040004.00



FIG. 4

B040018

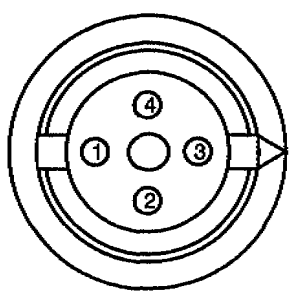


FIG. 5

B080001.00

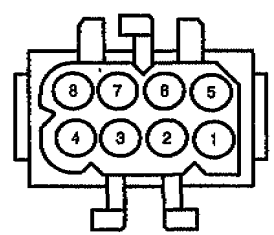


FIG. 6

B090002.00

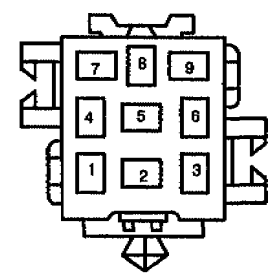


FIG. 1

B210002.00

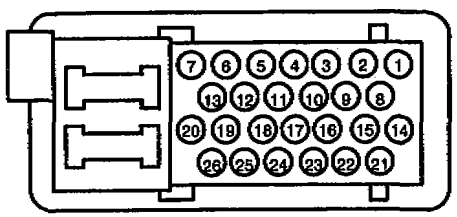


FIG. 2

B060001.02



FIG. 3

B070005.00

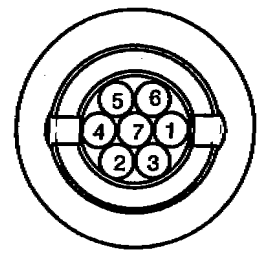


FIG. 4

B200003.00

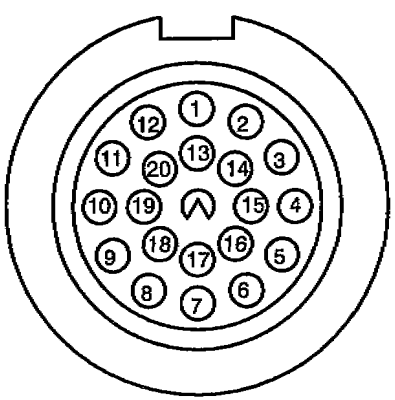


FIG. 5

B060010.01

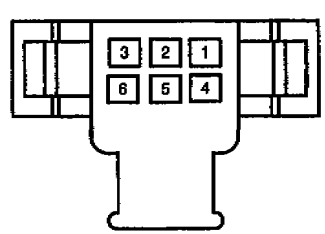


FIG. 6

B030003.02



CONNECTOR VIEWS

FIG. 1

B060008.00

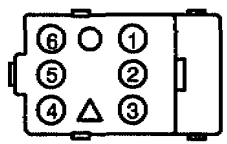


FIG. 2

B250001.01

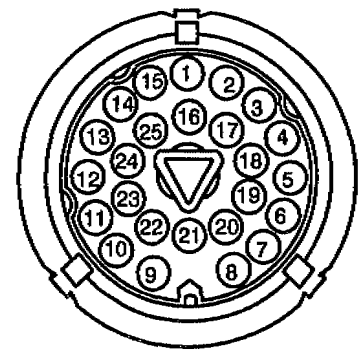


FIG. 3

B060019.02

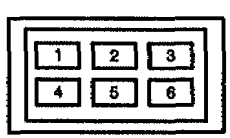


FIG. 4

B060037.00

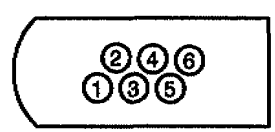


FIG. 5

B160003.00

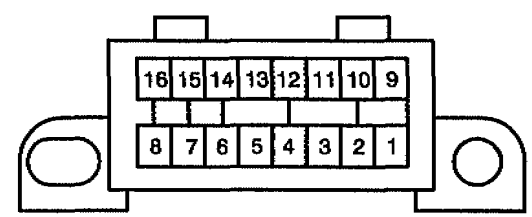


FIG. 1

B880001.00

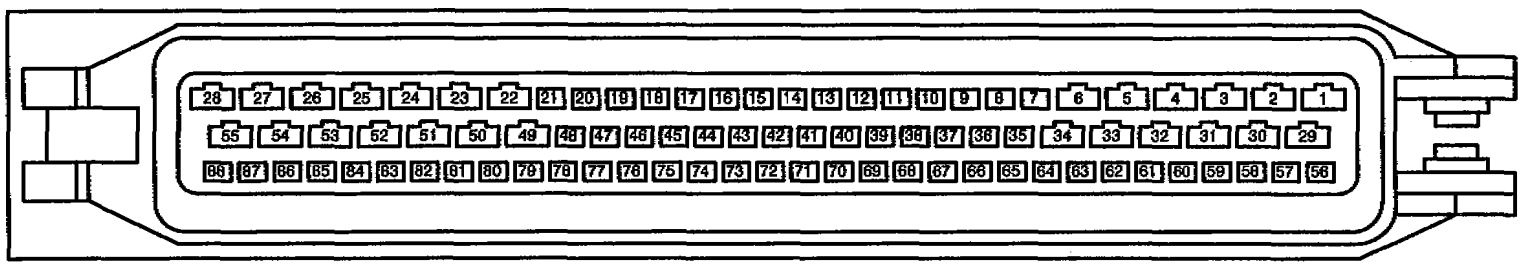


FIG. 2

B060038.00

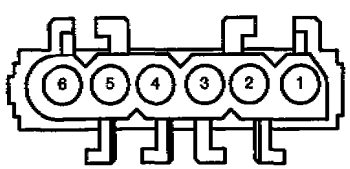


FIG. 3

B030006.00

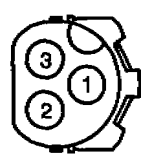
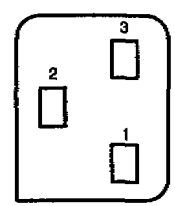


FIG. 4

B030004.01



CONNECTOR VIEWS

FIG. 1

B060012.00

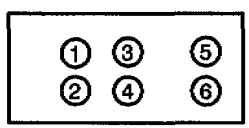


FIG. 2

B040023.01

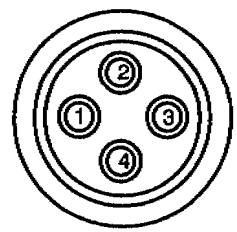


FIG. 3

B030018.00

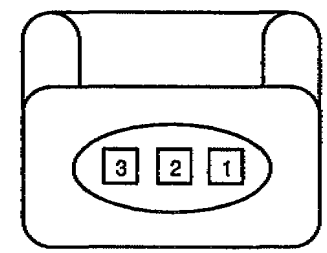


FIG. 4

B030015.08

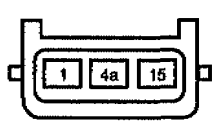


FIG. 5

B030023.00

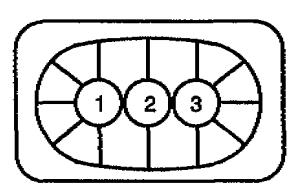
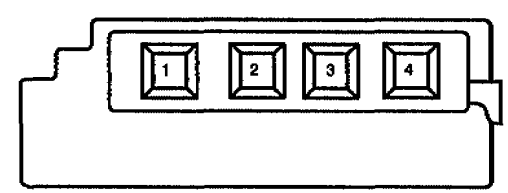


FIG. 6

B040020.00



CONNECTOR VIEWS

FIG. 1

B030025.00

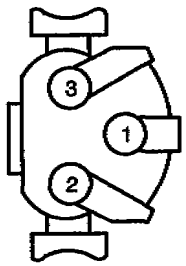


FIG. 2

B060037.01

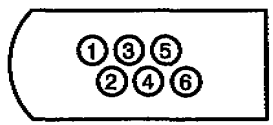


FIG. 3

B030001.00

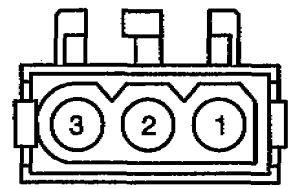


FIG. 4

B060001.00



FIG. 5

B120004.05

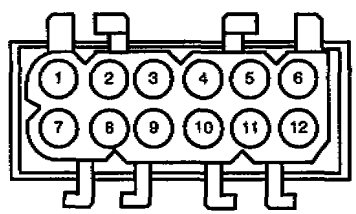
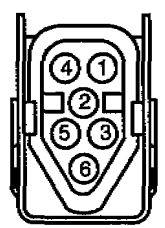


FIG. 6

B060009.00



CONNECTOR VIEWS

FIG. 1

B100004.01

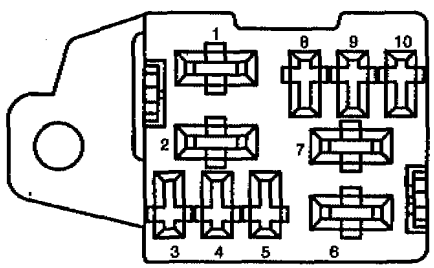


FIG. 2

B180002.00

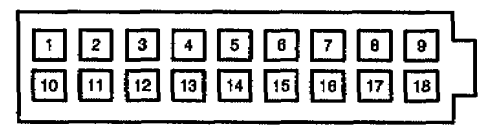


FIG. 3

B060042

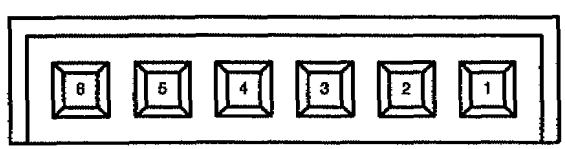


FIG. 4

B100007.00

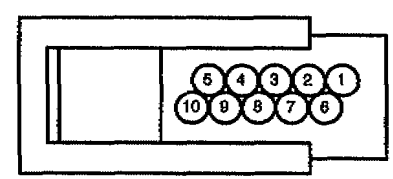


FIG. 1

B040021

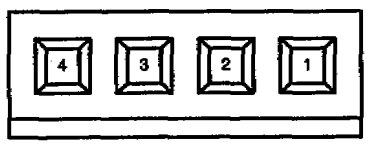


FIG. 2

B260002.04

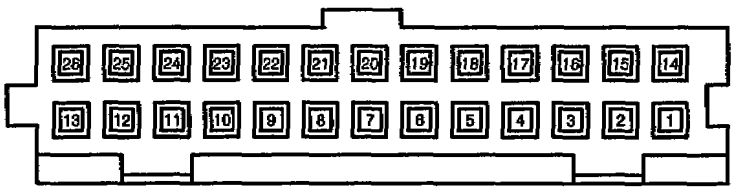


FIG. 3

B040003.00

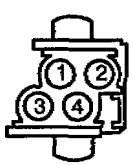


FIG. 4

B130002.00

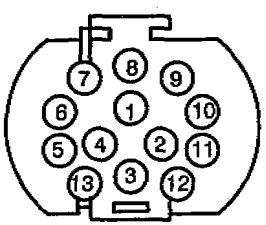


FIG. 5

B040013

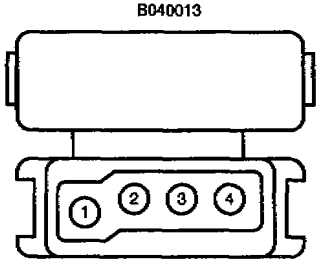


FIG. 1

B040022.00

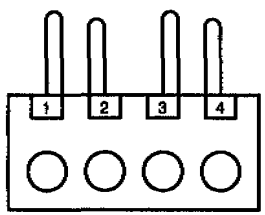


FIG. 2

B030009.00

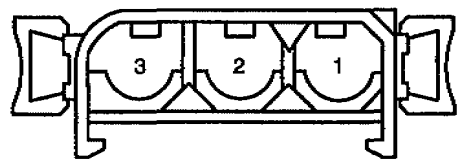


FIG. 3

B120002.02

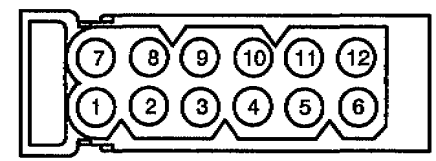


FIG. 4

B160001.00

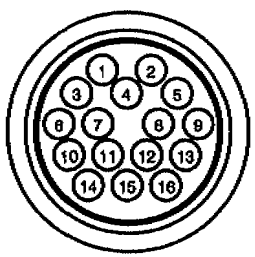


FIG. 5

B100011.01

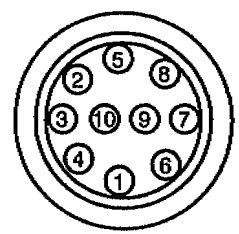


FIG. 6

B480000.00

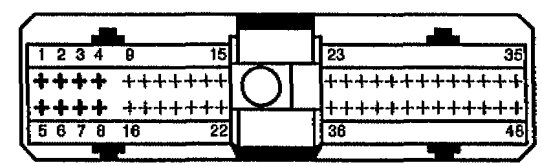


FIG. 1

B050005.00

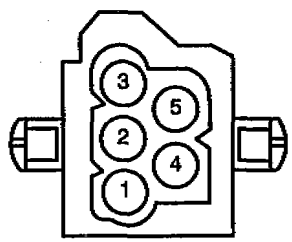


FIG. 2

B300003.00

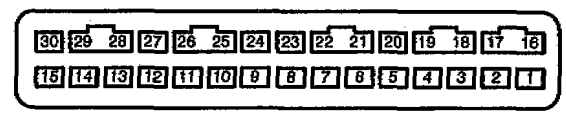


FIG. 3

B040027.00

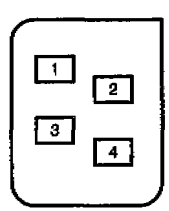
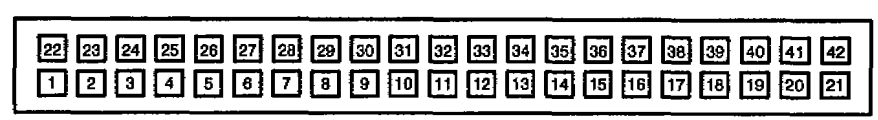


FIG. 4

B420000.00



CONNECTOR VIEWS

FIG. 1

B030042.01

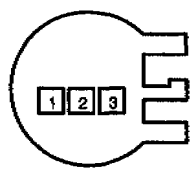


FIG. 2

B030018.01

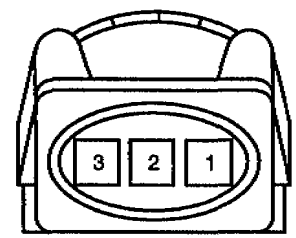


FIG. 3

B090006.00

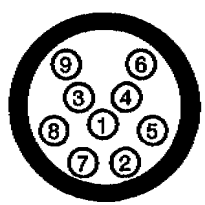
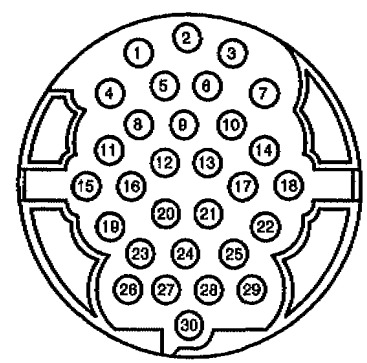
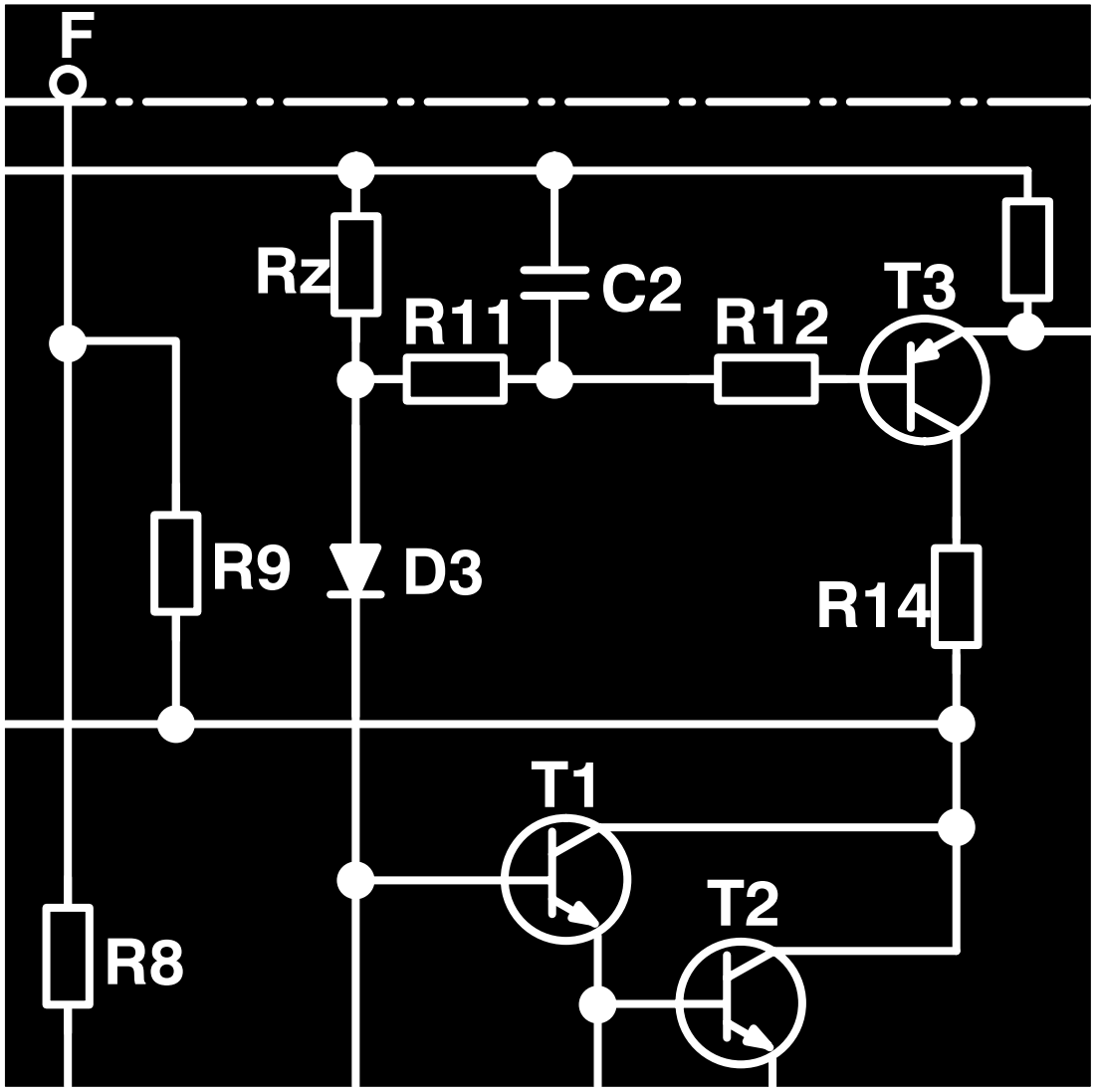


FIG. 4

B300005.00





1997
BMW
318is/c, 328i/c, M3 (E36)
Electrical Troubleshooting Manual

Vehicles Produced 9/96 thru 8/97

PN 01 00 1 470 352

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

SERIES 3 – E36 (318is, 328i, M3, INCL. CONVERTIBLE)

SCHEMATICS MODEL YEAR 1997

0100.0 INDEX
0110.0 INTRODUCTION
0140.0 SYMBOLS
0670.0 POWER DISTRIBUTION CHART
0670.1 FUSE CHART
0670.2 POWER DISTRIBUTION
0670.3 FUSE DETAILS
0670.4 GROUND DISTRIBUTION
0670.5 DATA LINK
1210.17 ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)
1210.20 ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)
1230.0 CHARGING SYSTEM
1240.0 START
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)
2460.4 ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)
3450.0 SLIP CONTROL (ABS)
3450.1 SLIP CONTROL (ABS/ASC)
5116.0 POWER MIRRORS
5120.0 ZKE DOOR LOCK HEATING (TSH)
5126.0 ZKE CENTRAL LOCKING (ZV)
5133.1 POWER WINDOWS (FH)
5200.0 POWER SEATS
5203.0 HEATED SEATS
5410.1 POWER TILT/SLIDE SUNROOF (SHD)
5430.1 ELECTRICAL CONVERTIBLE TOP
6100.0 CENTRAL BODY ELECTRONICS (ZKE IV)
6133.0 HORN
6135.0 DRIVE–AWAY PROTECTION (EWS II)
6160.1 WIPER/WASHER MODULE (WWM)
6167.1 HEADLIGHT WASHER (SRA)
6169.0 WINDSHIELD WASHER JET HEATERS
6211.0 INSTRUMENT CLUSTER
6213.1 ANALOG CLOCK
6213.2 MULTI–FUNCTION CLOCK
6214.0 ON–BOARD DISPLAY
6300.0 LIGHT SWITCH DETAILS
6312.0 HEADLIGHTS/FOG LIGHTS
6313.0 TURN/HAZARD LIGHTS
6314.0 PARK/TAIL LIGHTS
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS
6322.0 BACK UP LIGHTS
6325.0 BRAKE LIGHTS
6330.3 INTERIOR LIGHTS
6332.1 GLOVE BOX LIGHT/CASSETTE BOX/ ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER
6350.0 CRASH CONTROL MODULE
6410.5 HEATING CONTROL (HR)
6412.10 PARK VENTILATION WITH HR
6424.0 REAR WINDOW DEFOGGER/ ANTENNA
6450.7 INTEGRATED CLIMATE REGULATION (IHKA E36)
6510.0 RADIO/STEREO
6510.1 RADIO/HIFI
6561.0 CELLULAR TELEPHONE (PROVISIONS)
6571.0 CRUISE CONTROL (TEMPOMAT)
6575.2 ANTI–THEFT SYSTEM (ALPINE)
6581.2 ON–BOARD COMPUTER (BC V)
7000.0 COMPONENT LOCATION CHART
7100.0 COMPONENT LOCATION VIEWS
8000.0 SPLICE LOCATION VIEWS
8500.0 CONNECTOR VIEWS

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PART NUMBER 01 00 1 470 352

ABS CONTROL MODULE/HYDRAULIC UNIT, A202 . . . . . 3450.0
ABS HYDRAULIC UNIT, Y1 . . . . . 3450.1-07
ABS HYDRAULIC UNIT, Y1w 3450.1-01
ABS PEDAL TRAVEL SENSOR, S123 . . . . . 3450.1-01
ABS PUMP MOTOR RELAY, K75 . . . . . 3450.1-00
ABS PUMP MOTOR RELAY, TIMED, K125 . . . . . 3450.1-06
ABS RELAY, K10 . . . . . 3450.1-00
AIR BAG GAS GENERATOR, DRIVER'S, G5 . . . . . 3234.0-00
AIR BAG GAS GENERATOR, PASSENGER'S, G6 . . . . . 3234.0-00
AIR CONDITIONING COMPRESSOR, Y2 . . . . . 6450.7-04
AIR PUMP, M6133 . . . . . 1210.17-05
ANALOG CLOCK 6213.1
ANALOG CLOCK, N5 . . . . . 6213.1-00
ANTENNA AMPLIFIER AM/FM, N8 . . . . . 6424.0
ANTI−THEFT CONTROL MODULE (ALPINE), N12w 6575.2
ANTI−THEFT HORN (ALPINE), H1w 6575.2-02
ANTI−THEFT SYSTEM (ALPINE) 6575.2
ASC DIODE, V7 . . . . . 3450.1-00
ASC SWITCH, S6 . . . . . 3450.1-02
ASC SWITCH, S6 . . . . . 3450.1-05
AUTOMATIC CLIMATE CONTROL MODULE, A115 . . . . . 6450.7
AUTOMATIC TRANSMISSION RANGE SWITCH, S3 . . . . . 2460.
AUXILIARY FAN MOTOR, M9 . . . . . 6450.7
AUXILIARY FUSE BOX IN LUGGAGE COMPARTMENT, P96 . . . . . 0670.2
AUXILIARY FUSE BOX, P95 . . . . . 0670.2-04
AUXILIARY FUSE BOX, P97 . . . . . 0670.2
AUXILIARY THROTTLE POSITION MOTOR (ADS), M93 . . . . . 3450.1-02
AUXILIARY THROTTLE POSITION SENSOR, R31 . . . . . 3450.1-04
AUXILIARY TURN LIGHT, LEFT FRONT, H9 . . . . . 6313.0-02
AUXILIARY TURN LIGHT, RIGHT FRONT, H8 . . . . . 6313.0-02
B+ JUMP START JUNCTION POINT, G6430 . . . . . 0670.2-00
BACK UP LIGHT, LEFT, H27 . . . . . 6322.0-00
BACK UP LIGHT, RIGHT, H28 . . . . . 6322.0-00
BACK UP LIGHTS 6322.0
BATTERY, G1 . . . . . 0670.2-00
BLOWER MOTOR, M30 . . . . . 6410.5-01
BLOWER MOTOR, M30 . . . . . 6412.10-01
BLOWER MOTOR, M30 . . . . . 6450.7-00
BLOWER RELAY, K4 . . . . . 6410.5-00
BLOWER RELAY, K4 . . . . . 6412.10-00
BLOWER RELAY, K4 . . . . . 6450.7-00
BLOWER RESISTORS, R11 . . . . . 6410.5-01
BLOWER RESISTORS, R11 . . . . . 6412.10-01
BLOWER SWITCH, S75 . . . . . 6410.5-01
BLOWER SWITCH, S75 . . . . . 6412.10-00
BODY ELECTRONICS CONTROL MODULE (ZKE IV), A104 . . . . . 6100.0-00
BRAKE FLUID LEVEL SWITCH, B18 . . . . . 6211.0-00
BRAKE LIGHT SWITCH, S29 . . . . . 6325.0-00
BRAKE LIGHT SWITCH, S30 . . . . . 6325.0-01
BRAKE LIGHT, LEFT, H24 . . . . . 6325.0
BRAKE LIGHT, RIGHT, H31 . . . . . 6325.0
BRAKE LIGHTS 6325.0
BRAKE PAD SENSOR, LEFT FRONT, B16 . . . . . 6211.0-04
BRAKE PAD SENSOR, RIGHT REAR, B17 . . . . . 6211.0-04
CAMSHAFT POSITION SENSOR
(CYLINDER IDENTIFICATION), B6204 . . . . . 1210.17-06
CARBON CANISTER VALVE, Y199 . . . . . 1210.17-10
CASSETTE BOX LIGHT, E45y 6300.0-00
CD CHANGER, N22 . . . . . 6510.1
CELLULAR TELEPHONE (PROVISIONS) 6561.0
CENTRAL BODY ELECTRONICS (ZKE IV) 6100.0
CENTRAL LOCKING SWITCH, S302 . . . . . 5126.0-02
CENTRAL POWER WINDOW SWITCH, S40y 5133.1-03
CHARGING SOCKET, X779 . . . . . 6332.1-01
CHARGING SYSTEM 1230.0
CHECK CONTROL MODULE, A4 . . . . . 6581.2
CHILD PROTECTION CONTROL (CONSOLE), S130 . . . . . 5133.1-02
CHIME MODULE, H10 . . . . . 6581.2-01
CLUTCH SWITCH, S32 . . . . . 6571.0-01
COMBINATION SWITCH, S7 . . . . . 6312.0-00

INDEX

COMBINATION SWITCH, S7 . . . . . 6313.0-00
COMPONENT LOCATION CHART 7000.0
COMPONENT LOCATION VIEWS 7100.0
COMPRESSOR CONTROL RELAY, K19 . . . . . 6450.7-04
CONNECTOR VIEWS 8500.0
CONTACT RING, C101 . . . . . 3234.0-00
CONVERTIBLE TOP ACTUATING SWITCH, S143 . . . . . 5430.1-01
CONVERTIBLE TOP CONTROL MODULE, A96 . . . . . 5430.1
CONVERTIBLE TOP END−POSITION MICRO SWITCH, S164 . . 5430.1-01
CONVERTIBLE TOP MOTOR, M101 . . . . . 5430.1-02
CONVERTIBLE TOP POSITION MICRO SWITCH, S165 . . . . . 5430.1-01
CONVERTIBLE TOP STORAGE LID LOCK MOTOR, M43 . . . . . 5430.1-02
CONVERTIBLE TOP STORAGE LID MICRO SWITCH, S214 . . . . . 5430.1-04
CONVERTIBLE TOP STORAGE LID MOTOR, M100 . . . . . 5430.1-02
CRANKSHAFT POSITION/RPM SENSOR, B6203 . . . . . 1210.
CRASH CONTROL MODULE 6350.0
CRASH CONTROL MODULE, N17 . . . . . 6350.0-01
CRUISE CONTROL (TEMPOMAT) 6571.0
CRUISE CONTROL ACTUATOR (TEMPOMAT), M25 . . . . . 6571.0-01
CRUISE CONTROL MODULE (TEMPOMAT), A8 . . . . . 6571.0
CRUISE CONTROL SWITCH, S28 . . . . . 6571.0-00
DATA LINK 0670.5
DATA LINK CONNECTOR, D100 . . . . . 0670.5-00
DEFROSTER FLAP MOTOR, M35 . . . . . 6450.7-03
DIMMER, N3 . . . . . 6300.0-00
DIVERSITY, N404 . . . . . 6424.0-03
DOOR CONTACT, LEFT REAR, S125 . . . . . 6330.3-04
DOOR CONTACT, RIGHT REAR, S124 . . . . . 6330.3-04
DOOR HANDLE SWITCH, DRIVER'S, S48 . . . . . 6575.2-00
DOOR JAMB SWITCH, DRIVER'S, S14 . . . . . 5133.1-00
DOOR JAMB SWITCH, PASSENGER'S, S13 . . . . . 5133.1-00
DOOR LOCK HEATER, E48 . . . . . 5120.0-00
DOOR LOCK MOTOR, DRIVER'S, M12 . . . . . 5126.0-00
DOOR LOCK MOTOR, LEFT REAR, M15 . . . . . 5126.0-01
DOOR LOCK MOTOR, PASSENGER'S, M13 . . . . . 5126.0-00
DOOR LOCK MOTOR, RIGHT REAR, M14 . . . . . 5126.0-01
DOOR LOCK SWITCH, DRIVER'S, S47 . . . . . 5126.0-02
DOOR LOCK SWITCH, PASSENGER'S, S49 . . . . . 5126.0-02
DOUBLE TEMPERATURE SWITCH, S36y 6450.7-06
DUAL TEMPERATURE SENSOR
(COOLANT TEMPERATURE), B6256 . . . . . 1210.17-02
ELECTRICAL CONVERTIBLE TOP 5430.1
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II),
A836 . . . . . 6135.0
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 2460.2
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z) 2460.4
ENGINE CONTROL MODULE (DME), A6000 . . . . . 1210.
ENGINE CONTROL MODULE RELAY, K6300 . . . . . 1210.
ENGINE CONTROL SYSTEM (DME M5.2, 4−CYLINDER M44) 1210.20
ENGINE CONTROL SYSTEM MS41.1 (6−CYLINDER M52) 1210.17
ENGINE COOLANT LEVEL SWITCH, S63 . . . . . 6581.2-02
ENGINE COOLANT TEMPERATURE SENSOR, B6232 . . . . . 1210.
ENGINE COOLANT TEMPERATURE SENSOR, B6236 . . . . . 1210.17-02
ENGINE HOOD SWITCH, S21w 6575.2-02
EVAPORATIVE EMISSION VALVE, Y6120 . . . . . 1210.
EVAPORATOR TEMPERATURE SENSOR, B14 . . . . . 6450.7-02
EXHAUST GAS FLAP VALVE, Y198 . . . . . 1210.17-09
FINAL STAGE UNIT, N2 . . . . . 6450.7-00
FOG LIGHT SWITCH, S10 . . . . . 6312.0-00
FOG LIGHT, LEFT, E26 . . . . . 6312.0-00
FOG LIGHT, RIGHT, E27 . . . . . 6312.0-00
FOOTWELL LIGHT, LEFT FRONT, E61 . . . . . 6330.3
FOOTWELL LIGHT, RIGHT FRONT, E62 . . . . . 6330.3
FRESH AIR FLAP MOTOR, M36 . . . . . 6450.7-00
FRONT ASHTRAY LIGHT, E25 . . . . . 6332.1-00
FRONT CIGAR LIGHTER LIGHT, E29 . . . . . 6300.0-01
FRONT CIGAR LIGHTER, E28 . . . . . 6332.1-00
FRONT DOME LIGHT/MAP READING ASSEMBLY, E34 . . . . . 6330.3
FRONT FOG LIGHT RELAY, K47 . . . . . 6312.0-00
FRONT POWER DISTRIBUTION BOX, P90 . . . . . 0670.2-00

FRONT TURN LIGHT, RIGHT, H4 ..... 6313.0-02
FUEL INJECTION VALVE, CYL. 1, Y6101 ..... 1210.
FUEL INJECTION VALVE, CYL. 2, Y6102 ..... 1210.
FUEL INJECTION VALVE, CYL. 3, Y6103 ..... 1210.
FUEL INJECTION VALVE, CYL. 4, Y6104 ..... 1210.
FUEL INJECTION VALVE, CYL. 5, Y6105 ..... 1210.17-01
FUEL INJECTION VALVE, CYL. 6, Y6106 ..... 1210.17-01
FUEL LEVEL SENSOR, B6 ..... 6211.0-04
FUEL PUMP RELAY, CYL. 1−6, K6301 ..... 1210.17-04
FUEL PUMP RELAY, K6301w 1210.20-04
FUEL PUMP, M2 ..... 1210.
FUEL TANK PRESSURE SENSOR, B72 ..... 1210.17-10
FUEL TANK SENSOR II, B25y 6211.0-04
FUSE CHART 0670.1
FUSE DETAILS 0670.3
GAS FILLER LOCK MOTOR, M16 ..... 5126.0-00
GENERATOR, G6509 ..... 1230.0-00
GLOVE BOX LIGHT, E42 ..... 6332.1-01
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/
CHARGING SOCKET/CIGAR LIGHTER 6332.1
GLOVE BOX LOCK MOTOR, M107 ..... 5126.0-00
GROUND DISTRIBUTION 0670.4
HALL EFFECT CAMSHAFT SENSOR, B6209 ..... 1210.20-04
HARD TOP CONNECTOR 1, E99 ..... 5430.1-00
HARD TOP CONNECTOR 2, E100y 6330.3-03
HAZARD FLASHER RELAY, K16 ..... 6313.0-00
HAZARD SWITCH, S18 ..... 6313.0-01
HEADLIGHT WASHER (SRA) 6167.1
HEADLIGHT, LEFT, E7 ..... 6313.0-02
HEADLIGHT, LEFT, E7 ..... 6314.0-01
HEADLIGHT, RIGHT, E8 ..... 6313.0-02
HEADLIGHT, RIGHT, E8 ..... 6314.0-01
HEADLIGHT/FOG LIGHT WASHER PUMP, M7 ..... 6167.1-00
HEADLIGHTS/FOG LIGHTS 6312.0
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 ..... 6410.5-01
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 ..... 6450.7-02
HEAT EXCHANGER TEMPERATURE SENSOR, RH, B12 ..... 6450.7-02
HEATED SEATS 5203.0
HIFI AMPLIFIER, A18 ..... 6510.1
HIGH BEAM LIGHT RELAY, K46 ..... 6312.0-01
HIGH BEAM LIGHT, LEFT, E11 ..... 6312.0-01
HIGH BEAM LIGHT, RIGHT, E12 ..... 6312.0-01
HIGH LEVEL STOP LIGHT, H34 ..... 6325.0
HIGH RANGE SPEAKER, LEFT FRONT, H59 ..... 6510.0-00
HIGH RANGE SPEAKER, LEFT FRONT, H59 ..... 6510.1-01
HIGH RANGE SPEAKER, LEFT REAR, H56 ..... 6510.1-01
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.0-00
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.1-02
HIGH RANGE SPEAKER, RIGHT REAR, H53 ..... 6510.1-02
HIGH SPEED RELAY, K22 ..... 6450.7-05
HIGH SPEED RELAY, K22 ..... 6450.7-06
HORN 6133.0
HORN RELAY (ALPINE), K108 ..... 6575.2-02
HORN RELAY, K2 ..... 6133.0-00
HORN SWITCH, S4 ..... 6133.0-00
HORN, LEFT, H2 ..... 6133.0-00
HORN, RIGHT, H3 ..... 6133.0-00
HOT FILM AIR MASS METER, B6207 ..... 1210.17-05
HOT FILM AIR MASS METER, B6217 ..... 1210.20-06
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.
IGNITION COIL, CYL. 1, T6151 ..... 1210.
IGNITION COIL, CYL. 2, T6152 ..... 1210.
IGNITION COIL, CYL. 3, T6153 ..... 1210.
IGNITION COIL, CYL. 4, T6154 ..... 1210.
IGNITION COIL, CYL. 5, T6155 ..... 1210.17-03
IGNITION COIL, CYL. 6, T6156 ..... 1210.17-03
IGNITION SWITCH, S2 ..... 0670.2-04
INDEX 0100.0
INSTRUMENT CLUSTER 6211.0
INSTRUMENT CLUSTER, A2w 6211.0

INDEX

INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131 ..... 1210.20-01
INTAKE AIR TEMPERATURE SENSOR, B6205 ..... 1210.
INTEGRATED CLIMATE REGULATION (IHKA E36) 6450.7
INTERIOR LIGHT, LEFT REAR, E39 ..... 6330.3
INTERIOR LIGHT, RIGHT REAR, E40 ..... 6330.3
INTERIOR LIGHTS 6330.3
INTERMEDIATE PRESSURE SWITCH, B9 ..... 6450.7
INTRODUCTION 0110.0
JET HEATER THERMOSWITCH, S198 ..... 6169.0-00
KICK–DOWN SWITCH, S8507 ..... 2460.
KNOCK SENSOR, B6240 ..... 1210.17-06
KNOCK SENSOR, B6240 ..... 1210.20-05
LED 6575.2-00
LICENSE PLATE LIGHT, LEFT, E43 ..... 6320.0-00
LICENSE PLATE LIGHT, RIGHT, E44 ..... 6320.0-00
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS 6320.0
LIGHT SWITCH DETAILS 6300.0
LIGHT SWITCH, S8 ..... 6300.0-00
LOW BEAM LIGHT RELAY, K48 ..... 6312.0-01
LOW BEAM LIGHT, LEFT, E13 ..... 6312.0-01
LOW BEAM LIGHT, RIGHT, E14 ..... 6312.0-01
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.0-00
LOW RANGE SPEAKER, LEFT FRONT, H58 ..... 6510.1-01
LOW RANGE SPEAKER, LEFT REAR, H57 ..... 6510.1-01
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.0-00
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.1-02
LOW RANGE SPEAKER, RIGHT REAR, H52 ..... 6510.1-02
LOW–NOISE MICROPHONE 6575.2-00
MAKE–UP MIRROR LIGHT, DRIVER'S, E35 ..... 6330.3
MAKE–UP MIRROR LIGHT, PASSENGER'S, E36 ..... 6330.3
MAKE–UP MIRROR SWITCH, DRIVER'S, S77 ..... 6330.3
MAKE–UP MIRROR SWITCH, PASSENGER'S, S78 ..... 6330.3
MID–HIGH RANGE SPEAKER, LEFT, H42 ..... 6510.1-01
MID–HIGH RANGE SPEAKER, RIGHT, H43 ..... 6510.1-02
MIDRANGE SPEAKER, LEFT FRONT, H55 ..... 6510.1-01
MIDRANGE SPEAKER, RIGHT FRONT, H54 ..... 6510.1-02
MIRROR CONTROL SWITCH, S17 ..... 5116.0-00
MIRROR, DRIVER'S SIDE, Y5 ..... 5116.0-01
MIRROR, PASSENGER'S SIDE, Y6 ..... 5116.0-01
MULTI–FUNCTION CLOCK 6213.2
MULTI–FUNCTION CLOCK, N10 ..... 6213.2
NORMAL SPEED RELAY, K21 ..... 6450.7-05
NORMAL SPEED RELAY, K21 ..... 6450.7-06
OBD II CONNECTOR, D110 ..... 0670.5
OIL PRESSURE SWITCH, B6231 ..... 6211.0-00
OIL TEMPERATURE SENSOR, B6238 ..... 6211.0-04
ON–BOARD COMPUTER (BC V) 6581.2
ON–BOARD COMPUTER TEMPERATURE SENSOR, B21 ..... 6213.2
ON–BOARD COMPUTER TEMPERATURE SENSOR, B21 ..... 6581.2-00
ON–BOARD COMPUTER, N4 ..... 6581.2
ON–BOARD DISPLAY 6214.0
ON–BOARD DISPLAY, A35 ..... 6214.0-00
OUTSIDE TEMPERATURE SENSOR, B13 ..... 6450.7-02
OXYGEN SENSOR
(BEHIND CATALYTIC CONVERTER), B62002 ..... 1210.20-04
OXYGEN SENSOR
(IN FRONT OF CATALYTIC CONVERTER), B62001 ..... 1210.20-04
OXYGEN SENSOR I
(BEHIND CATALYTIC CONVERTER), B62102 ..... 1210.17-04
OXYGEN SENSOR I
(IN FRONT OF CATALYTIC CONVERTER), B62101 ..... 1210.17-04
OXYGEN SENSOR II
(BEHIND CATALYTIC CONVERTER), B62202 ..... 1210.17-04
OXYGEN SENSOR II
(IN FRONT OF CATALYTIC CONVERTER), B62201 ..... 1210.17-04
PARK BRAKE SWITCH, S31 ..... 6211.0-00
PARK LIGHT, LEFT, E15 ..... 6314.0-01
PARK LIGHT, RIGHT, E19 ..... 6314.0-01
PARK VENTILATION RELAY, K450 ..... 6412.10-01
PARK VENTILATION WITH HR 6412.10

PARK/TAIL/UNDERHOOD LIGHTS 6314.0
POWER DISTRIBUTION 0670.2
POWER DISTRIBUTION CHART 0670.0
POWER MIRRORS 5116.0
POWER SEATS 5200.0
POWER TILT/SLIDE SUNROOF (SHD) 5410.0
POWER WINDOW SWITCH, DRIVER'S, S126y 5133.1-01
POWER WINDOW SWITCH, PASSENGER'S, S127y 5133.1-01
POWER WINDOWS (FH) 5133.1
PRESSURE SWITCH, B8y 6450.7
PRESSURE SWITCH, B9508 . . . . . 6450.7
PROGRAM SWITCH, S8503 . . . . . 2460.
PYROTECHNICAL BELT TENSIONER, DRIVER'S SIDE, G12 . . . . 3234.0-00
PYROTECHNICAL BELT TENSIONER, PASSENGER'S SIDE, G13 . . . . . 3234.0-00
RADIO, N9 . . . . . 6510.0-00
RADIO, N9 . . . . . 6510.1
RADIO/HIFI 6510.1
RADIO/STEREO 6510.0
REAR ASHTRAY LIGHT, E28y 6300.0-01
REAR DEFOGGER RELAY, K13 . . . . . 6424.0
REAR DEFOGGER/ANTENNA, E10 . . . . . 6424.0
REAR DOOR (CONSOLE) POWER WINDOW SWITCH, LH, S128y 5133.1-02
REAR DOOR (CONSOLE) POWER WINDOW SWITCH, RH, S129y 5133.1-02
REAR DOOR POWER WINDOW SWITCH (DOOR), LH, S41y 5133.1-02
REAR DOOR POWER WINDOW SWITCH (DOOR), RH, S42y . . . 5133.1-02
REAR POWER WINDOW SWITCH, LH, S128z 5133.1-03
REAR POWER WINDOW SWITCH, RH, S129z 5133.1-03
REAR RECIRCULATION FLAP MOTOR, M46 . . . . . 6450.7-03
REAR WINDOW BLOWER MICRO SWITCH, S196 . . . . . 5430.1-01
REAR WINDOW BLOWER RELAY, K99 . . . . . 6424.0-01
REAR WINDOW BLOWER, M105 . . . . . 6424.0-01
REAR WINDOW DEFOGGER/ANTENNA 6424.0
RECIRCULATION FLAP MOTOR, M40 . . . . . 6450.7-03
REGULATION FLAP MOTOR, M44 . . . . . 6450.7-03
RELAY MODULE, A5 . . . . . 5133.1-05
REVERSING LIGHT SWITCH, S8511 . . . . . 6322.0-00
ROLLOVER PROTECTION ACTUATOR, LH, Y85 . . . . . 5430.1-03
ROLLOVER PROTECTION ACTUATOR, RH, Y86 . . . . . 5430.1-03
ROLLOVER SENSOR, N24 . . . . . 5430.1-03
SEAT BELT SWITCH, DRIVER'S, S58 . . . . . 3234.0
SEAT BELT SWITCH, PASSENGER'S, S59 . . . . . 3234.0
SEAT CONTROL SWITCH, DRIVER'S SEAT, S51 . . . . . 5200.0-00
SEAT CONTROL SWITCH, PASSENGER'S SEAT, S56 . . . . . 5200.0-01
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 . . . . . 5200.0-00
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 . . . . . 5200.0-01
SEAT HEATER SWITCH, DRIVER'S SEAT, S53 . . . . . 5203.0-00
SEAT HEATER SWITCH, PASSENGER'S SEAT, S54 . . . . . 5203.0-00
SEAT HEATER, DRIVER'S, E57 . . . . . 5203.0-00
SEAT HEATER, PASSENGER'S, E58 . . . . . 5203.0-00
SEAT HEIGHT MOTOR, DRIVER'S, M52 . . . . . 5200.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 . . . . . 5200.0-01
SEAT LUMBAR SUPPORT MOTOR/VALVE, DRIVER'S, M55z 5200.0-02
SEAT LUMBAR SWITCH, DRIVER'S, S52 . . . . . 5200.0-02
SEAT MOVEMENT MOTOR, DRIVER'S, M51 . . . . . 5200.0-00
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 . . . . . 5200.0-01
SEAT OCCUPANCY DETECTOR, A113 . . . . . 3234.0-00
SEATBACK HEATER, DRIVER'S, E56 . . . . . 5203.0-00
SEATBACK HEATER, PASSENGER'S, E59 . . . . . 5203.0-00
SEATBACK RECLINER MOTOR, DRIVER'S, M53 . . . . . 5200.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 . . . . . 5200.0-01
SECONDARY AIR PUMP RELAY, K6304 . . . . . 1210.17-05
SECONDARY AIR PUMP VALVE, Y6163 . . . . . 1210.17-05
SHIFT–LOCK, Y19 . . . . . 2460.
SIDE AIR BAG GAS GENERATOR, LEFT, G14 . . . . . 3234.0-01
SIDE AIR BAG GAS GENERATOR, RIGHT, G15 . . . . . 3234.0-01
SIDE IMPACT SENSOR, DRIVER'S, B78 . . . . . 3234.0-01
SIDE IMPACT SENSOR, PASSENGER'S, B79 . . . . . 3234.0-01

SLIP CONTROL (ABS) 3450.0
SLIP CONTROL (ABS/ASC) 3450.1
SLIP CONTROL MODULE (ABS/ASC), A52 ..... 3450.1
SOLENOID VALVE ("RUNNING LOSSES"), Y6550 ..... 1210.17-05
SPEAKER, LEFT REAR, H46 ..... 6510.0-00
SPEAKER, LEFT REAR, H46 ..... 6510.1-01
SPEAKER, RIGHT REAR, H45 ..... 6510.0-00
SPEAKER, RIGHT REAR, H45 ..... 6510.1-02
SPEED SENSOR – ABS, LEFT FRONT, B2 ..... 3450.
SPEED SENSOR – ABS, LEFT REAR, B4 ..... 3450.
SPEED SENSOR – ABS, RIGHT FRONT, B1 ..... 3450.
SPEED SENSOR – ABS, RIGHT REAR, B3 ..... 3450.
SPLICE LOCATION VIEWS 8000.0
START 1240.0
STARTER IMMOBILIZATION SWITCH, S235 ..... 6135.0-00
STARTER, M6510 ..... 1240.0-02
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 ..... 3234.
SUPPRESSION FILTER, C900 ..... 6424.0
SWITCH SPATIAL SOUND, S303 ..... 6510.1-04
SYMBOLS 0140.0
TAIL LIGHT, LEFT, H25 ..... 6314.0-01
TAIL LIGHT, LEFT, H37 ..... 6314.0-01
TAIL LIGHT, RIGHT, H30 ..... 6314.0-01
TAIL LIGHT, RIGHT, H39 ..... 6314.0-01
TELEPHONE CONNECTOR 6561.0
TEMPERATURE SWITCH, S36 ..... 6450.7-05
THERMOSTAT, A32y 6410.5
THROTTLE POSITION SENSOR, R6252 ..... 1210.
TILT/SLIDE SUNROOF CONTROL ASSEMBLY, A56 ..... 5410.1
TILT/SLIDE SUNROOF SWITCH (SHD), S38 ..... 5410.1
TRANSMISSION CONTROL MODULE (EGS), A7000 ..... 2460.4-00
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 6300.0-01
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2-01
TRANSMISSION VALVE UNIT, Y8505y 2460.4-01
TRANSMISSION VALVE UNIT, Y8521 ..... 2460.2-07
TRANSMITTER MODULE (EWS II), A835 ..... 6135.0-01
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0-01
TRUNK COMPARTMENT LIGHT, LEFT, E101 ..... 6320.0-01
TRUNK COMPARTMENT LIGHT, RIGHT, E102 ..... 6320.0-01
TRUNK LID MICRO SWITCH, S213 ..... 5430.1-02
TRUNK LID RELAY, K117 ..... 5126.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6325.0
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2-03
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6325.0
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2-03
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2-04
TRUNK LIGHT SWITCH, S61y 6320.0-01
TRUNK LOCK MOTOR, M17 ..... 5126.0-01
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0-02
TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
TURN/HAZARD LIGHTS 6313.0
UNLOADER RELAY, TERMINAL 15, K6326 ..... 1210.
UNLOADER RELAY, TERMINAL 15, K9 ..... 5203.0-00
VARIABLE CAMSHAFT CONTROL VALVE 1, Y6275 ..... 1210.17-05
VEHICLE SPEED SENSOR, B10 ..... 6211.0-04
WASHER FLUID LEVEL SWITCH, S64 ..... 6581.2-02
WASHER JET HEATER, LEFT, E51 ..... 6169.0-00
WASHER JET HEATER, RIGHT, E52 ..... 6169.0-00
WASHER PUMP, M4 ..... 6160.1

INDEX

WATER VALVE ASSEMBLY, Y4 . . . . . 6410.5-00
WATER VALVE ASSEMBLY, Y4 . . . . . 6450.7-01
WINDOW MOTOR, DRIVER'S, M21 . . . . . 5133.1-04
WINDOW MOTOR, LEFT REAR, M20 . . . . . 5133.1-05
WINDOW MOTOR, LEFT REAR, M98 . . . . . 5133.1-05
WINDOW MOTOR, PASSENGER'S, M23 . . . . . 5133.1-04
WINDOW MOTOR, RIGHT REAR, M22 . . . . . 5133.1-05
WINDOW MOTOR, RIGHT REAR, M99 . . . . . 5133.1-05
WINDSCREEN COWL PANEL LOCK MICROSWITCH, S231 . . . . . 5430.1-00
WINDSCREEN COWL PANEL LOCK MOTOR, M132 . . . . . 5430.1-00
WINDSHIELD WASHER JET HEATERS 6169.0
WIPER MOTOR, M3 . . . . . 6160.1
WIPER/WASHER MODULE (LOW II), A64 . . . . . 6160.1-00
WIPER/WASHER MODULE (WWM) 6160.1
WIPER/WASHER MODULE, A51 . . . . . 6160.1
WIPER/WASHER SWITCH, S5 . . . . . 6160.1
ZKE CENTRAL LOCKING (ZV) 5126.0
ZKE DOOR LOCK HEATING (TSH) 5120.0

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self−explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

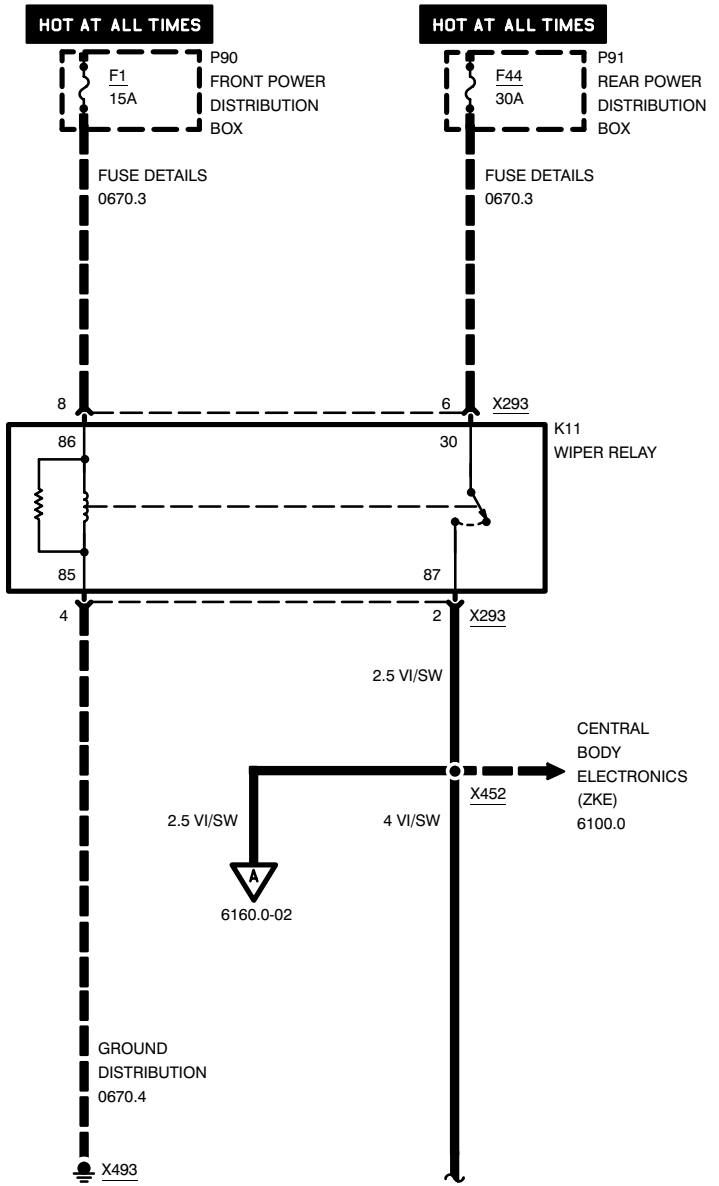
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC, etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.

7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors, and cross sections.

8. The interrupted line from splice X452 with an **A** in the open arrow is continued on page 6160.0−02.
Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

SYMBOLS


BATTERY


FUSE DETAILS

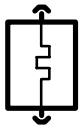

FUSIBLE LINK


CIRCUIT BREAKER


THERMO SWITCH

SOLENOID


SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID


HEATING ELEMENT

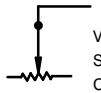

LOUDSPEAKER OR HORN


LIGHT


PERMANENT MAGNET MOTOR ONE SPEED


PERMANENT MAGNET MOTOR TWO SPEEDS


KNOCK SENSOR


VARIABLE RESISTANCE SENSOR VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE


VARIABLE RESIS-TOR RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE

DIODE CURRENT CAN FLOW ONLY IN DIRECTION OF AR-ROW

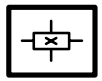
ZENER DIODE TO REGULATE VOLTAGE


LIGHT EMITTING DIODE


OXYGEN SENSOR


ANTENNA


CONTROL/POWER ELECTRONICS


HALL EFFECT SENSOR


RADIO



TRANSISTORIZED SWITCH



INDUCTIVE SENSOR



VEHICLE SPEED SENSOR

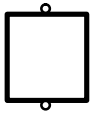
SYMBOLS



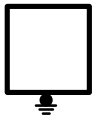
ENTIRE COMPONENT SHOWN



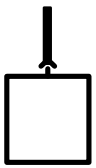
PART OF COMPONENT SHOWN



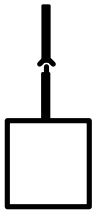
COMPONENT WITH SCREW TERMINALS



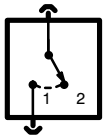
COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)



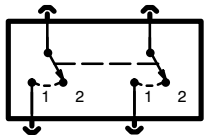
CONNECTOR ATTACHED TO COMPONENT



CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



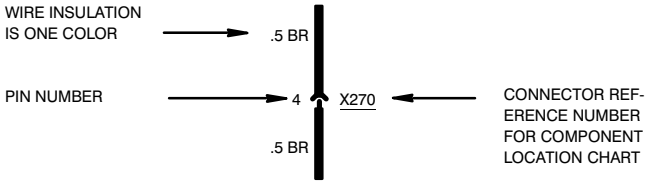
ONE POLE, TWO POSITION SWITCH

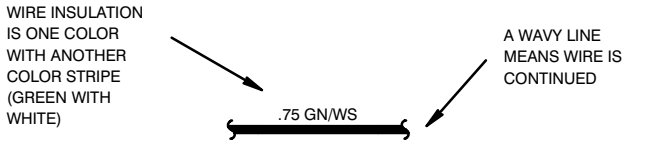


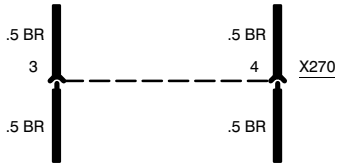
SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

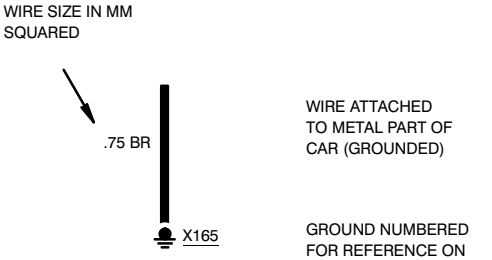




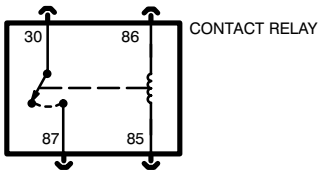


TWO CONNECTIONS (PINS) IN THE SAME CONNECTOR

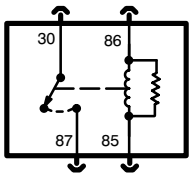
DASHED LINE INDICATES TERMINALS OF THE SAME CONNECTOR



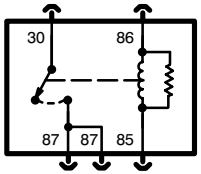
SYMBOLS



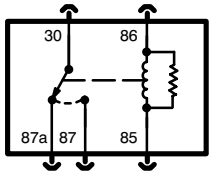
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

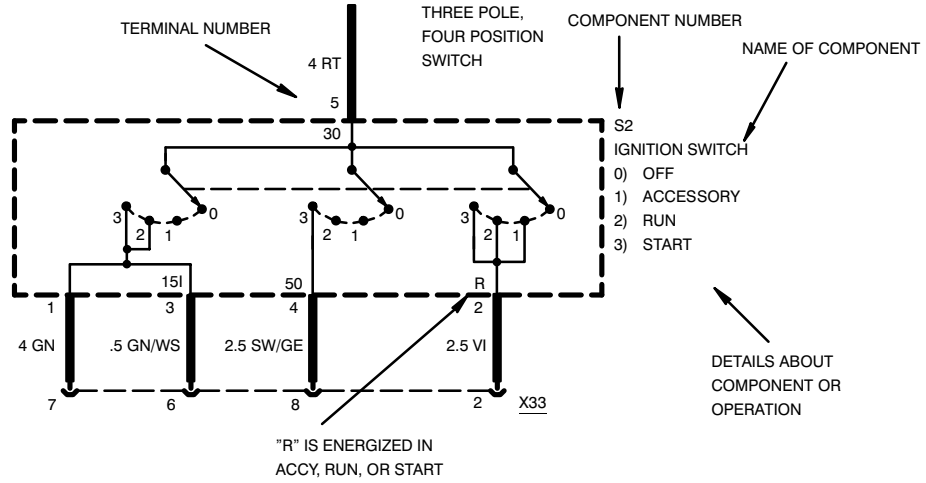


CONTACT RELAY WITH TWO OUTPUTS

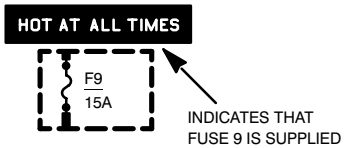


CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)

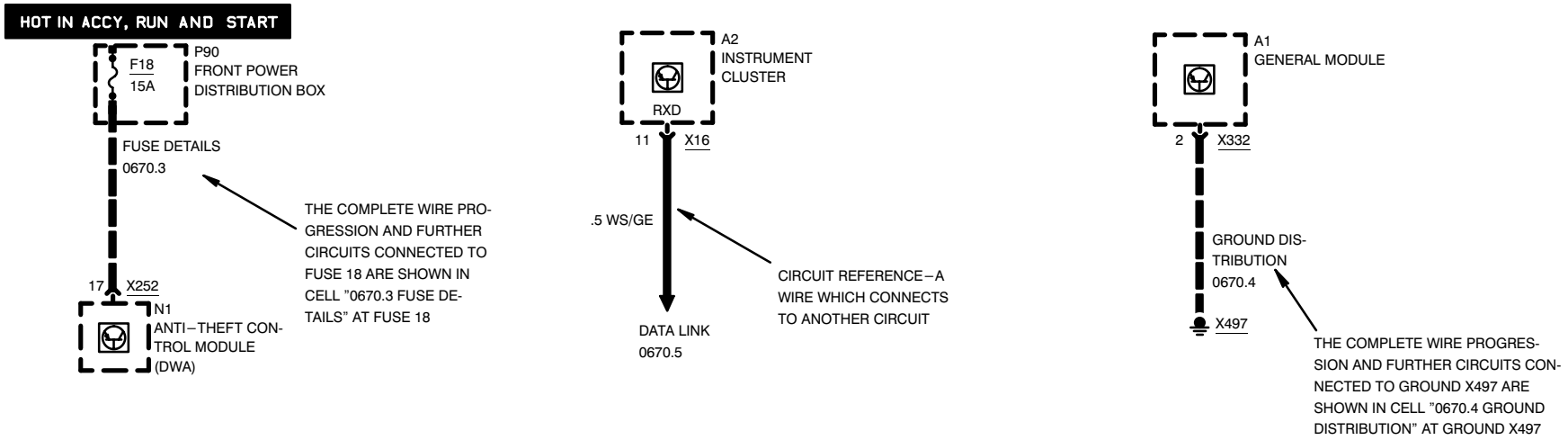


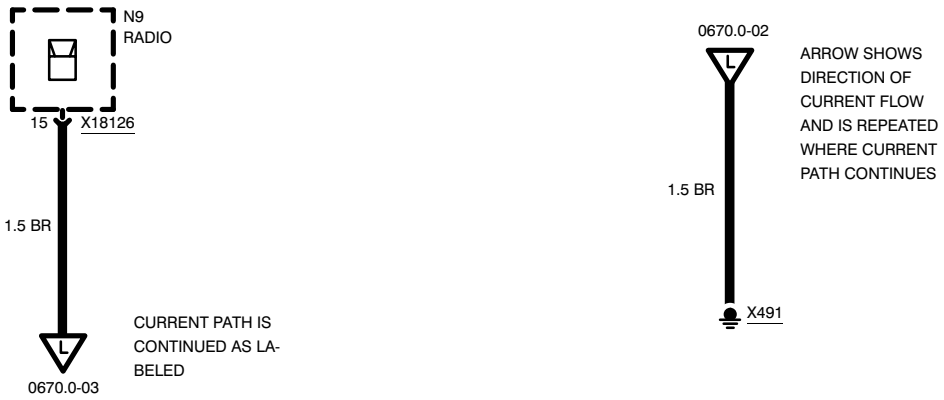
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND



POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

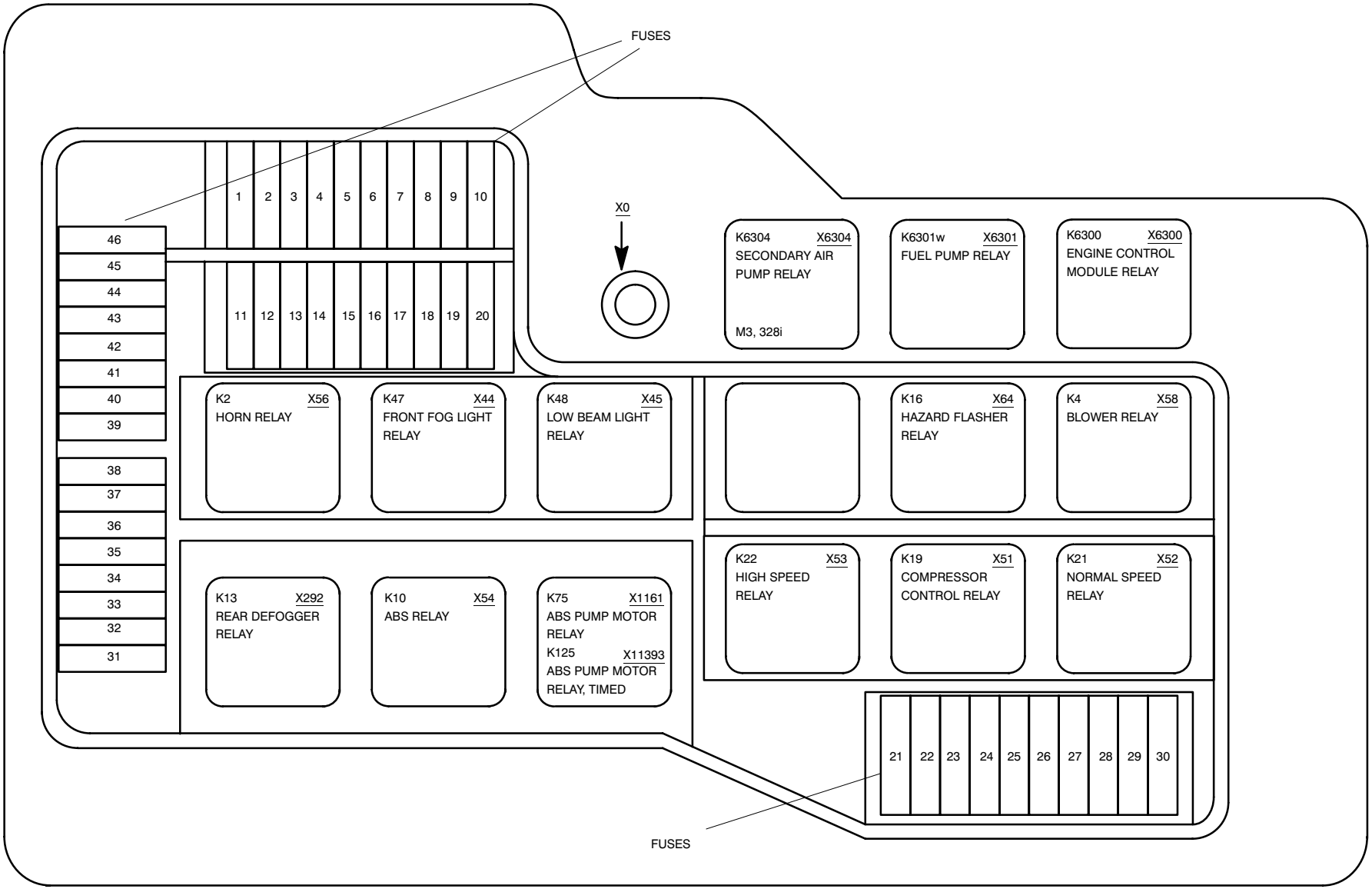
SYMBOLS


HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PRO-
GRESSION AND FURTHER
CIRCUITS CONNECTED TO
FUSE 18 ARE SHOWN IN
CELL "0670.3 FUSE DE-
TAILS" AT FUSE 18
17
X252
N1
ANTI–THEFT CON-
TROL MODULE
(DWA)
A2
INSTRUMENT
CLUSTER
RXD
11
X16
.5 WS/GE
CIRCUIT REFERENCE–A
WIRE WHICH CONNECTS
TO ANOTHER CIRCUIT
DATA LINK
0670.5
A1
GENERAL MODULE
2
X332
GROUND DIS-
TRIBUTION
0670.4
X497
THE COMPLETE WIRE PROGRES-
SION AND FURTHER CIRCUITS CON-
NECTED TO GROUND X497 ARE
SHOWN IN CELL "0670.4 GROUND
DISTRIBUTION" AT GROUND X497


N9
RADIO
15
X18126
1.5 BR
L
0670.0-03
CURRENT PATH IS
CONTINUED AS LA-
BELED
0670.0-02
L
ARROW SHOWS
DIRECTION OF
CURRENT FLOW
AND IS REPEATED
WHERE CURRENT
PATH CONTINUES
1.5 BR
X491

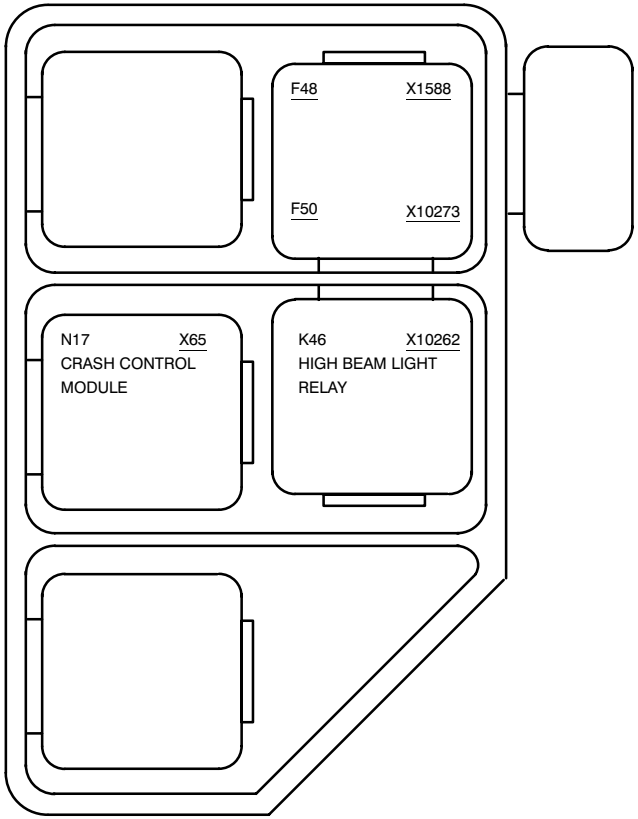
POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX



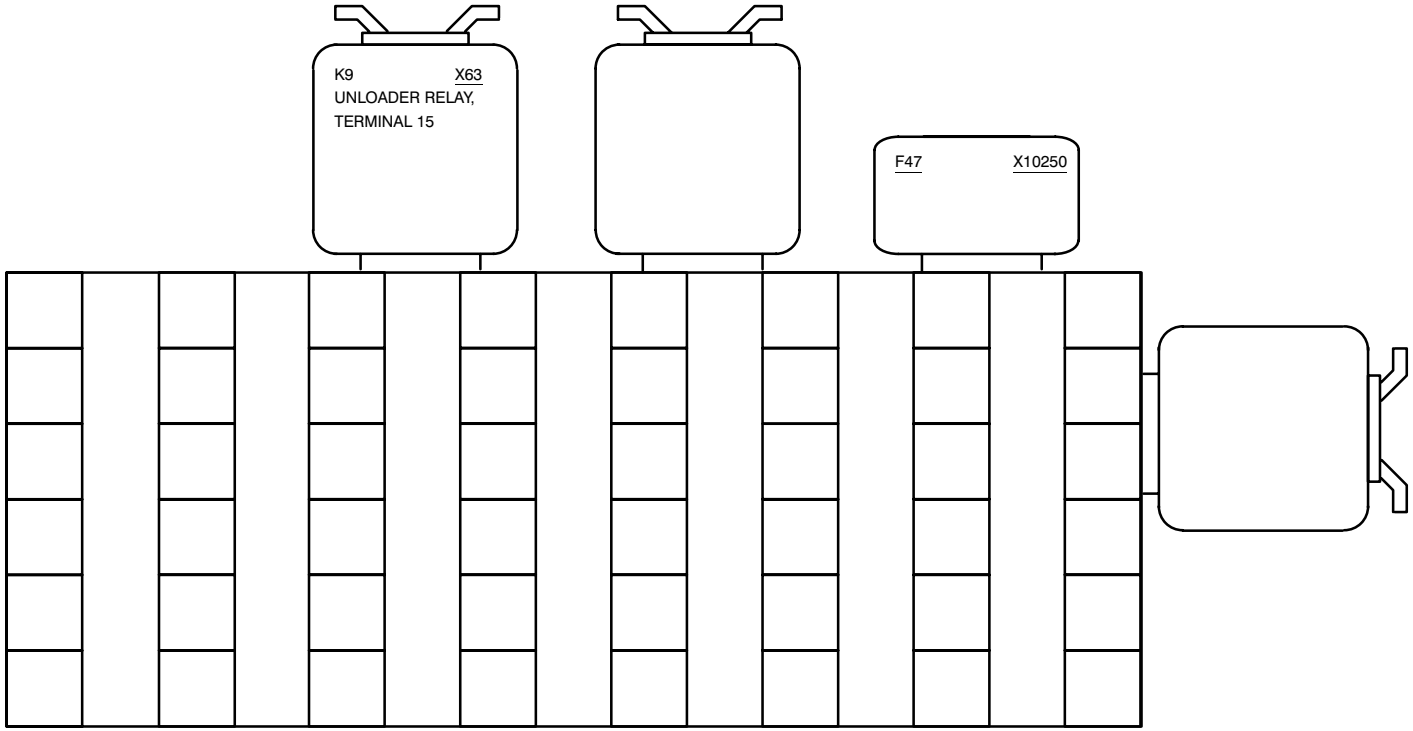
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



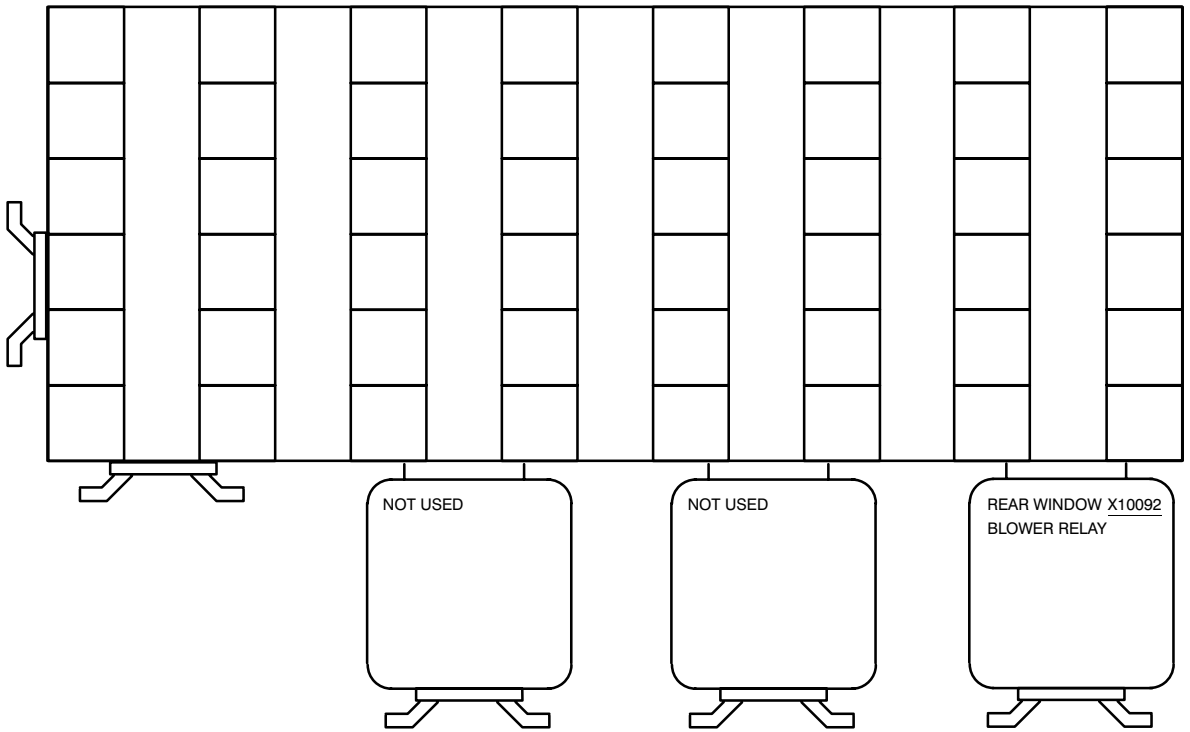
POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)																●		●											
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)																●		●											
1230.0	CHARGING SYSTEM																													
1240.0	START																												●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																										●		●	
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																											●		
3450.0	SLIP CONTROL (ABS)										●											●						●		
3450.1	SLIP CONTROL (ABS/ASC)										●											●						●		
5116.0	POWER MIRRORS																								●					
5120.0	ZKE DOOR LOCK HEATING (TSH)							●																						
5126.0	ZKE CENTRAL LOCKING (ZV)							●																					●	
5133.1	POWER WINDOWS (FH)														●					●										
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER TILT/SLIDE SUNROOF (SHD)	●																												
5430.1	ELECTRICAL CONVERTIBLE TOP							●																				●		
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)														●															
6133.0	HORN								●																					
6135.0	DRIVE–AWAY PROTECTION (EWS II)																												●	

BMW 3

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6160.1	WIPER/WASHER MODULE (WWM)			●																										
6167.1	HEADLIGHT WASHER (SRA)			●																										
6169.0	WINDSHIELD WASHER JET HEATERS																								●					
6211.0	INSTRUMENT CLUSTER																							●				●		
6213.1	ANALOG CLOCK																													
6213.2	MULTI–FUNCTION CLOCK																							●			●	●		
6214.0	ON–BOARD DISPLAY																							●				●		
6300.0	LIGHT SWITCH DETAILS																						●			●				
6312.0	HEADLIGHTS/FOG LIGHTS											●	●			●								●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL/UNDERHOOD LIGHTS																													
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS																													
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER																													
6350.0	CRASH CONTROL MODULE																													
6410.5	HEATING CONTROL (HR)																				●			●						
6412.10	PARK VENTILATION WITH HR																				●									
6424.0	REAR WINDOW DEFOGGER/ANTENNA						●																	●						

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																										
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)																●				●			●						
6510.0	RADIO/STEREO									●																				
6510.1	RADIO/HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI−THEFT SYSTEM (ALPINE)																													
6581.2	ON−BOARD COMPUTER (BC V)											●	●											●			●	●		

FUSE CHART

FUSES 30 TO 50

		FUSE NUMBER																													
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50									
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A	20A	5A									
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)										●							●				●									
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)										●							●													
1230.0	CHARGING SYSTEM																														
1240.0	START		●														●														
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																	●													
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																	●													
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)													●																	
3450.0	SLIP CONTROL (ABS)									●								●													
3450.1	SLIP CONTROL (ABS/ASC)									●								●													
5116.0	POWER MIRRORS																														
5120.0	ZKE DOOR LOCK HEATING (TSH)						●																								
5126.0	ZKE CENTRAL LOCKING (ZV)		●				●										●														
5133.1	POWER WINDOWS (FH)																														
5200.0	POWER SEATS											●																			
5203.0	HEATED SEATS																														
5410.1	POWER TILT/SLIDE SUNROOF (SHD)																														
5430.1	ELECTRICAL CONVERTIBLE TOP													●	●						●										
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●																
6133.0	HORN																														
6135.0	DRIVE–AWAY PROTECTION (EWS II)		●														●														

FUSE CHART

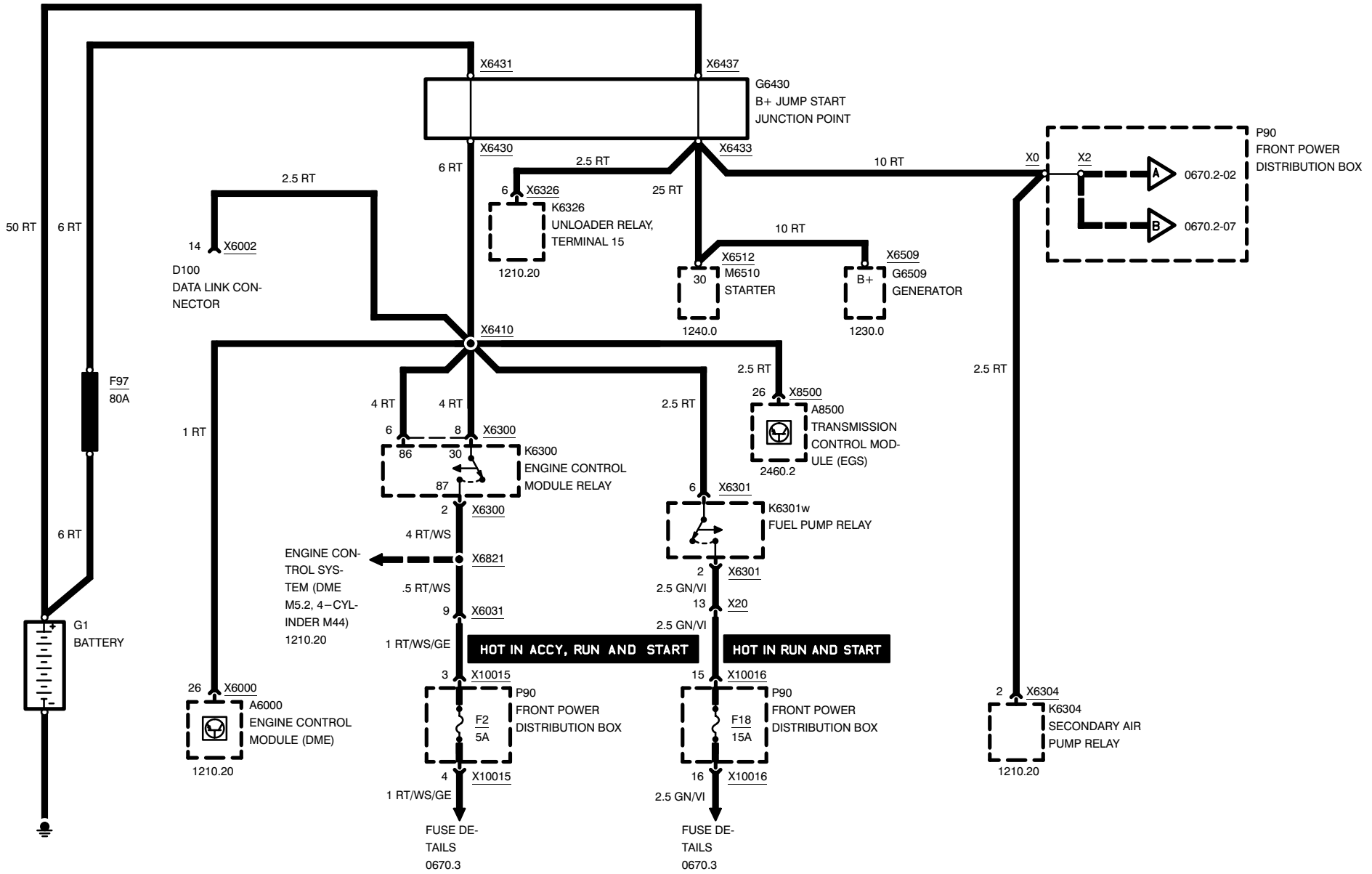
FUSES 30 TO 50

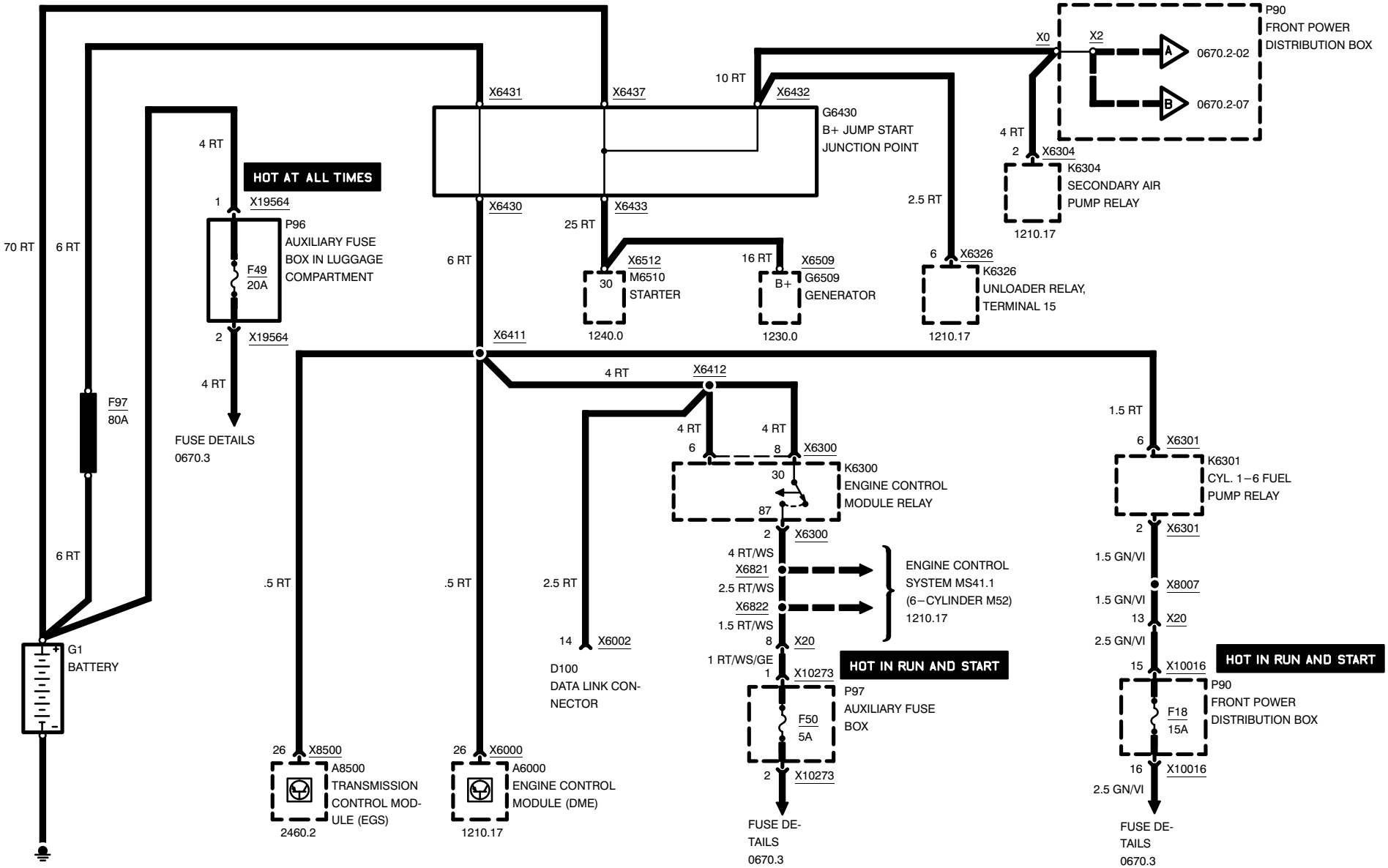
		FUSE NUMBER																													
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50									
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A	20A	5A									
6167.1	HEADLIGHT WASHER (SRA)							●								●															
6169.0	WINDSHIELD WASHER JET HEATERS																														
6211.0	INSTRUMENT CLUSTER		●														●	●													
6213.1	ANALOG CLOCK		●																												
6213.2	MULTI–FUNCTION CLOCK		●														●	●													
6214.0	ON–BOARD DISPLAY		●														●	●													
6300.0	LIGHT SWITCH DETAILS				●				●																						
6312.0	HEADLIGHTS/FOG LIGHTS	●																													
6313.0	TURN/HAZARD LIGHTS					●																									
6314.0	PARK/TAIL/UNDERHOOD LIGHTS				●				●																						
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS				●				●																						
6322.0	BACK UP LIGHTS																														
6325.0	BRAKE LIGHTS																	●													
6330.3	INTERIOR LIGHTS				●										●																
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER			●	●				●							●															
6350.0	CRASH CONTROL MODULE					●																									
6410.5	HEATING CONTROL (HR)																														
6412.10	PARK VENTILATION WITH HR																														
6424.0	REAR WINDOW DEFOGGER/ANTENNA																														
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)		●								●		●							●											

FUSE CHART

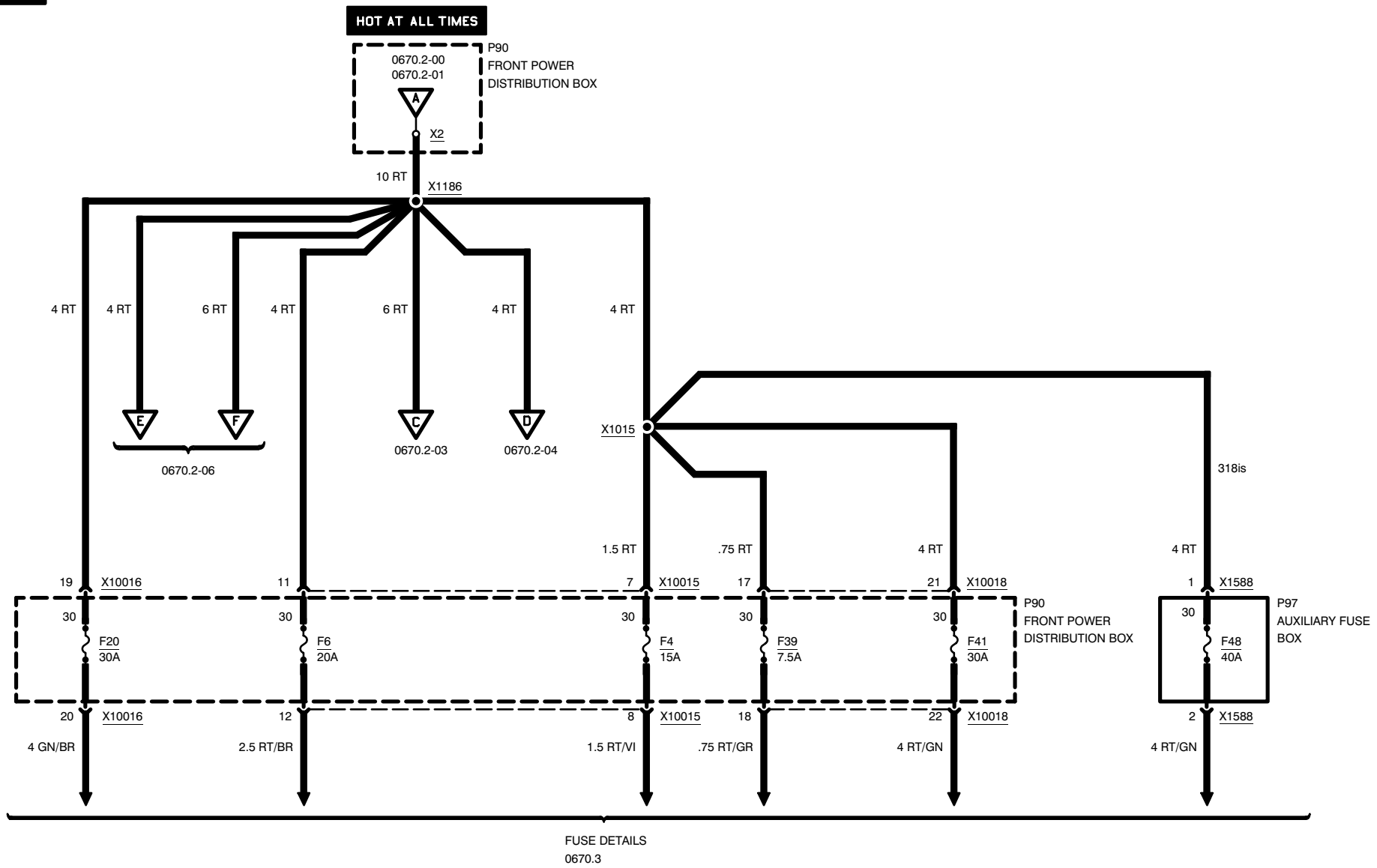
FUSES 30 TO 50

		FUSE NUMBER																													
		30	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**									
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A	20A	5A									
6160.1	WIPER/WASHER MODULE (WWM)							●	●							●															
6510.0	RADIO/STEREO															●															
6510.1	RADIO/HIFI				●										●	●															
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●																
6571.0	CRUISE CONTROL (TEMPOMAT)																	●													
6575.2	ANTI−THEFT SYSTEM (ALPINE)														●				●												
6581.2	ON−BOARD COMPUTER (BC V)		●		●				●								●	●													

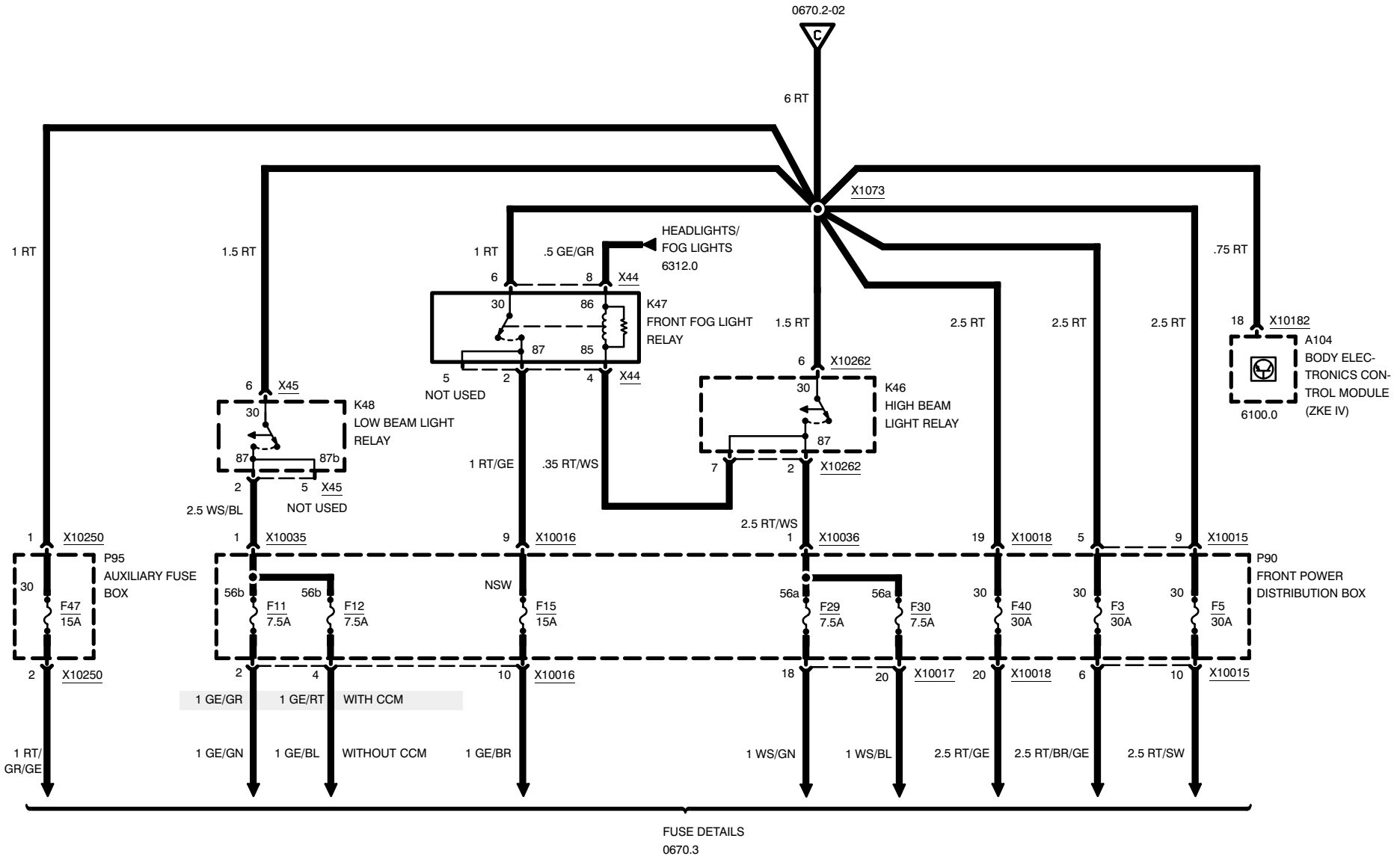

X6431
X6437
G6430
B+ JUMP START
JUNCTION POINT
X6430
X6433
6 RT
2.5 RT
10 RT
X0
X2
P90
FRONT POWER
DISTRIBUTION BOX
A
0670.2-02
B
0670.2-07
2.5 RT
6
X6326
25 RT
K6326
UNLOADER RELAY,
TERMINAL 15
1210.20
50 RT
6 RT
14
X6002
D100
DATA LINK CON-
NECTOR
10 RT
X6512
30
M6510
STARTER
1240.0
X6509
B+
G6509
GENERATOR
1230.0
X6410
F97
80A
2.5 RT
2.5 RT
26
X8500
A8500
TRANSMISSION
CONTROL MOD-
ULE (EGS)
2460.2
4 RT
4 RT
2.5 RT
1 RT
6
8
X6300
86
30
K6300
ENGINE CONTROL
MODULE RELAY
87
6
X6301
K6301w
FUEL PUMP RELAY
2
X6300
4 RT/WS
ENGINE CON-
TROL SYS-
TEM (DME
M5.2, 4–CYL-
INDER M44)
1210.20
X6821
2
X6301
.5 RT/WS
2.5 GN/VI
9
X6031
13
X20
2.5 GN/VI
1 RT/WS/GE
HOT IN ACCY, RUN AND START
HOT IN RUN AND START
3
X10015
15
X10016
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.20
P90
FRONT POWER
DISTRIBUTION BOX
F2
5A
F18
15A
P90
FRONT POWER
DISTRIBUTION BOX
4
X10015
16
X10016
1 RT/WS/GE
2.5 GN/VI
FUSE DE-
TAILS
0670.3
FUSE DE-
TAILS
0670.3
2
X6304
K6304
SECONDARY AIR
PUMP RELAY
1210.20
G1
BATTERY


P90
FRONT POWER
DISTRIBUTION BOX
X0
X2
A
0670.2-02
B
0670.2-07
10 RT
X6431
X6437
X6432
G6430
B+ JUMP START
JUNCTION POINT
4 RT
2
X6304
K6304
SECONDARY AIR
PUMP RELAY
1210.17
2.5 RT
4 RT
HOT AT ALL TIMES
1
X19564
P96
AUXILIARY FUSE
BOX IN LUGGAGE
COMPARTMENT
F49
20A
2
X19564
4 RT
FUSE DETAILS
0670.3
70 RT
6 RT
X6430
X6433
25 RT
6 RT
X6512
M6510
STARTER
30
1240.0
16 RT
X6509
G6509
GENERATOR
B+
1230.0
6
X6326
K6326
UNLOADER RELAY,
TERMINAL 15
1210.17
X6411
F97
80A
6 RT
G1
BATTERY
4 RT
X6412
4 RT
6
4 RT
8
X6300
K6300
ENGINE CONTROL
MODULE RELAY
30
87
2
X6300
4 RT/WS
X6821
2.5 RT/WS
X6822
1.5 RT/WS
8
X20
1 RT/WS/GE
1
X10273
ENGINE CONTROL
SYSTEM MS41.1
(6–CYLINDER M52)
1210.17
HOT IN RUN AND START
P97
AUXILIARY FUSE
BOX
F50
5A
2
X10273
FUSE DE-
TAILS
0670.3
1.5 RT
6
X6301
K6301
CYL. 1–6 FUEL
PUMP RELAY
2
X6301
1.5 GN/VI
X8007
1.5 GN/VI
13
X20
2.5 GN/VI
15
X10016
HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F18
15A
16
X10016
2.5 GN/VI
FUSE DE-
TAILS
0670.3
.5 RT
.5 RT
2.5 RT
14
X6002
D100
DATA LINK CON-
NECTOR
26
X8500
A8500
TRANSMISSION
CONTROL MOD-
ULE (EGS)
2460.2
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.17

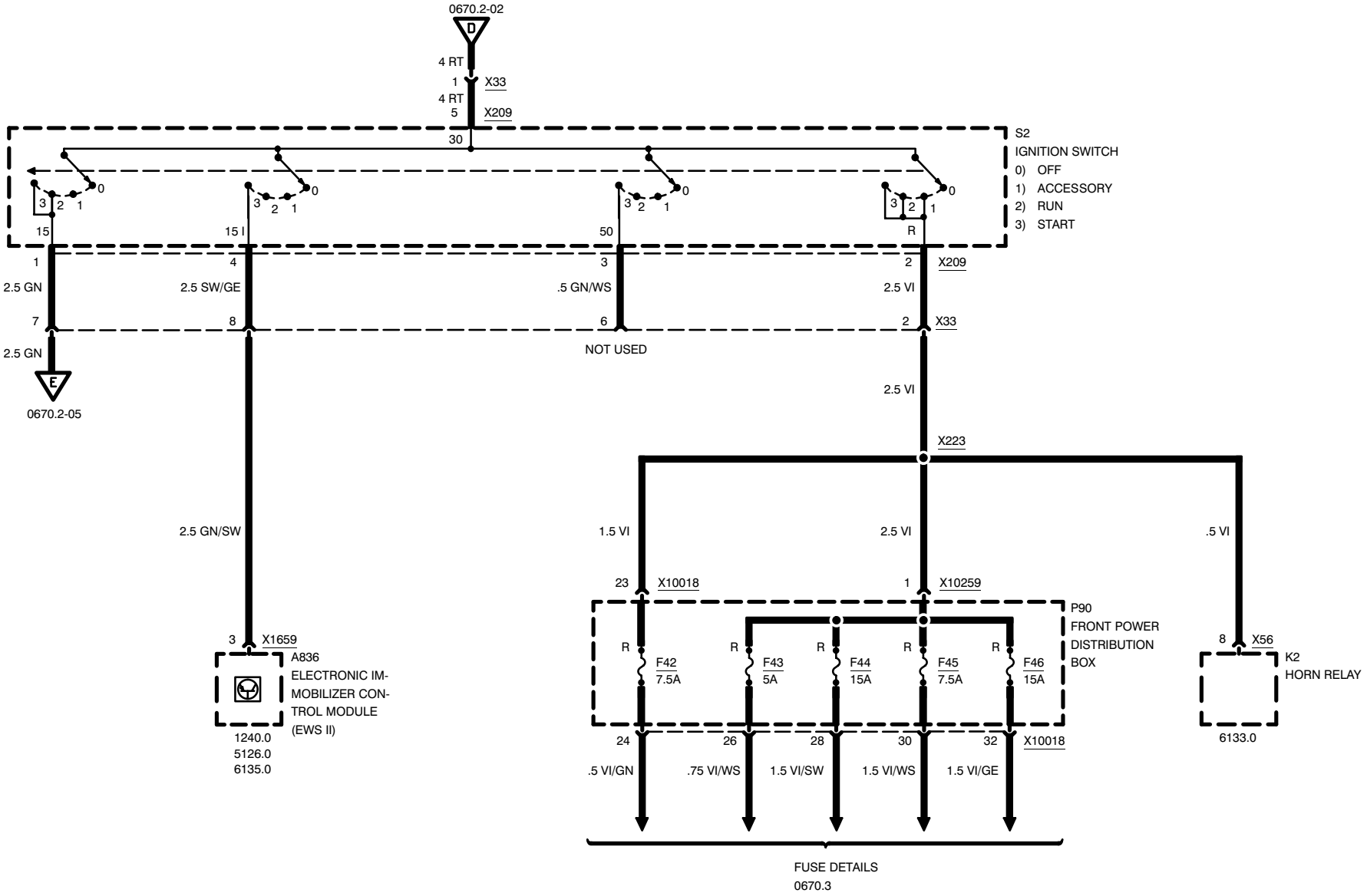
POWER DISTRIBUTION



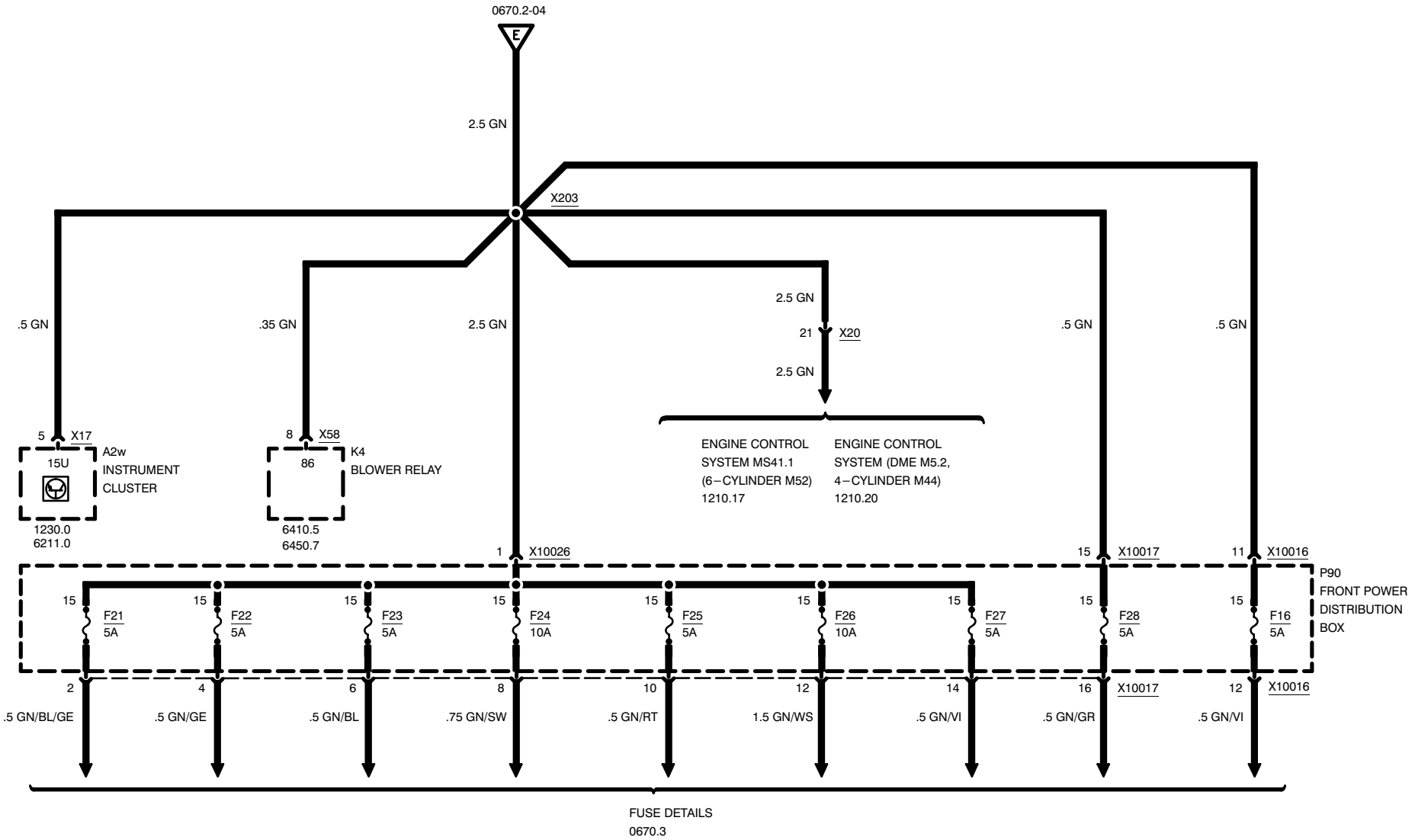
POWER DISTRIBUTION



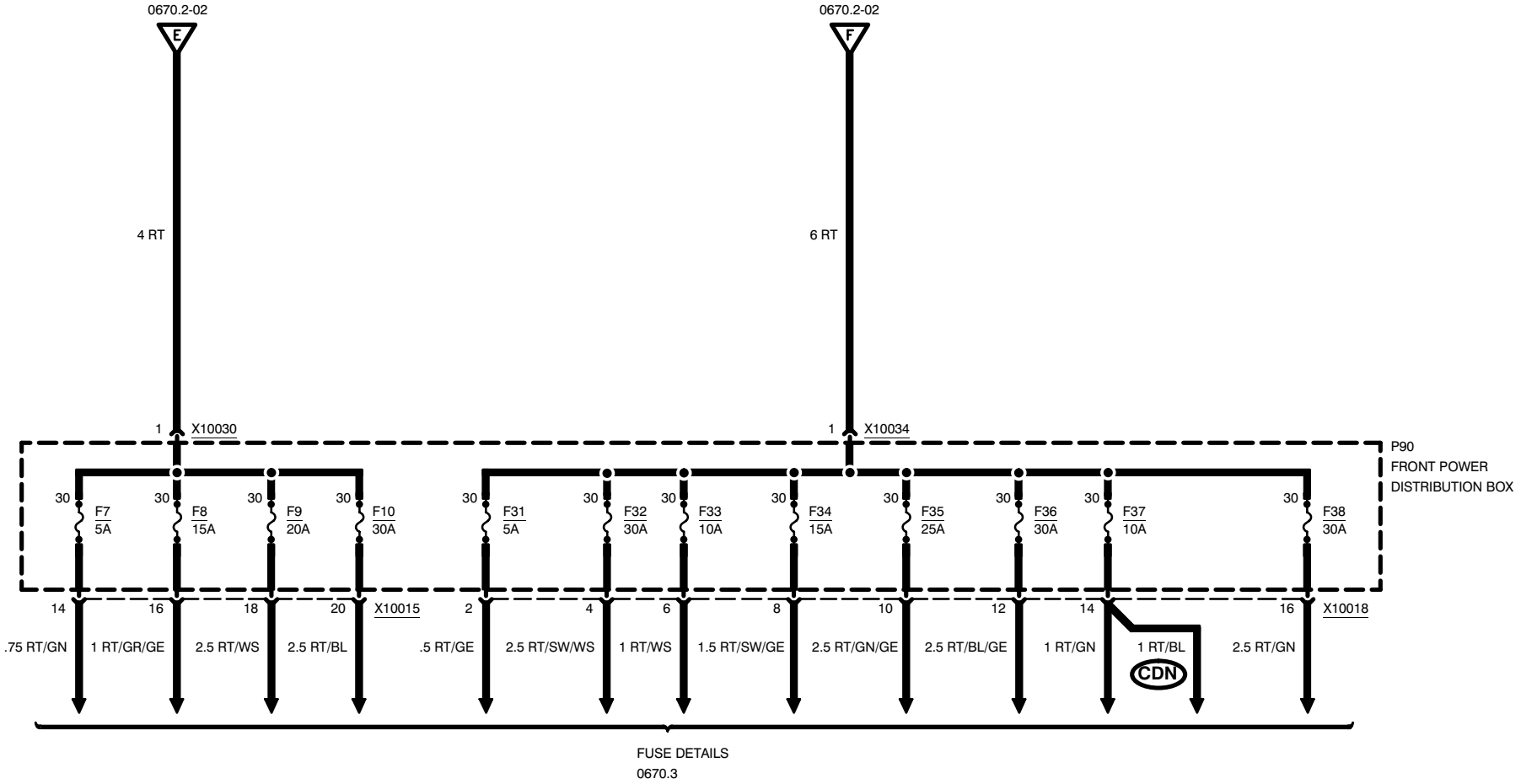
POWER DISTRIBUTION



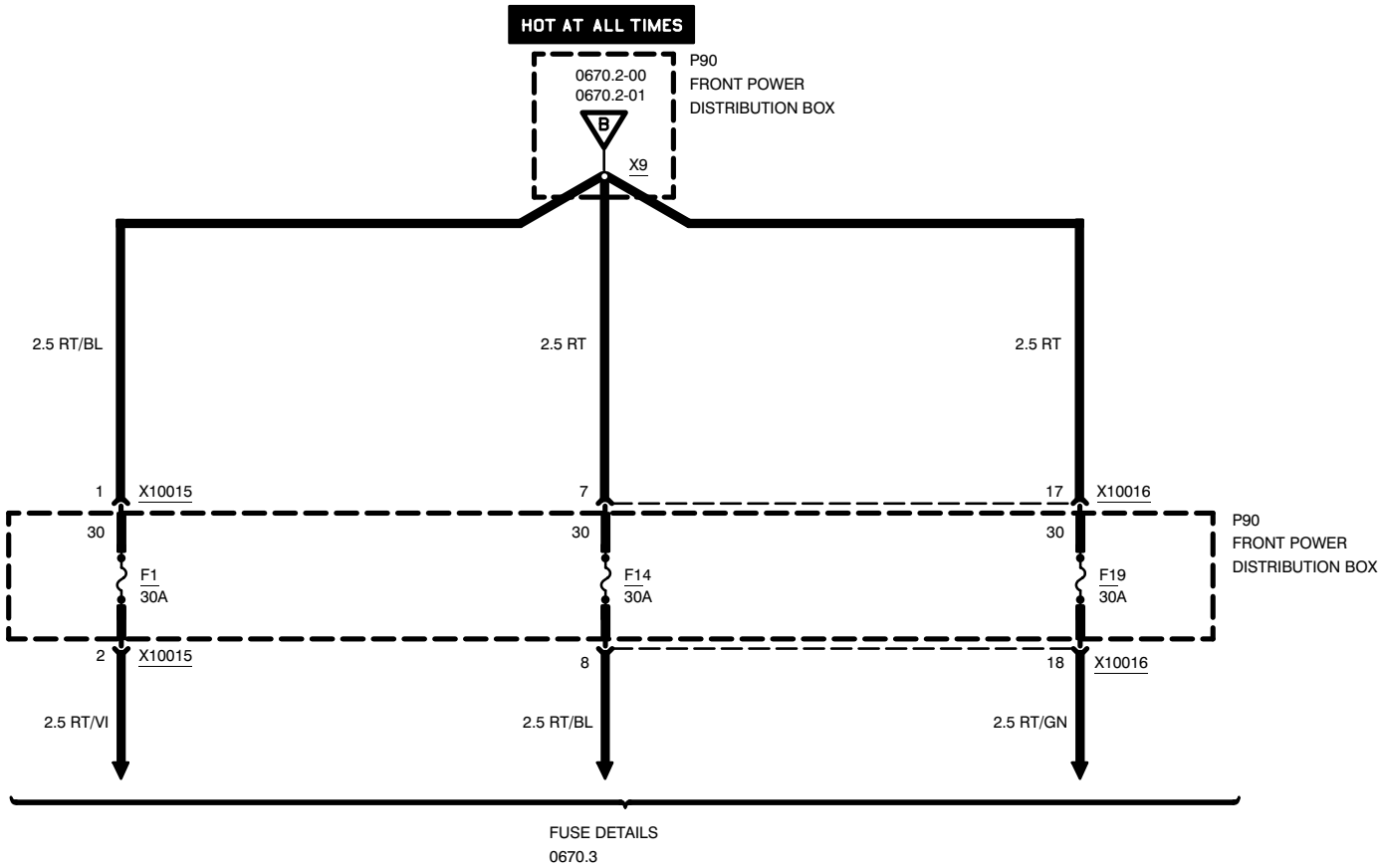
POWER DISTRIBUTION



POWER DISTRIBUTION

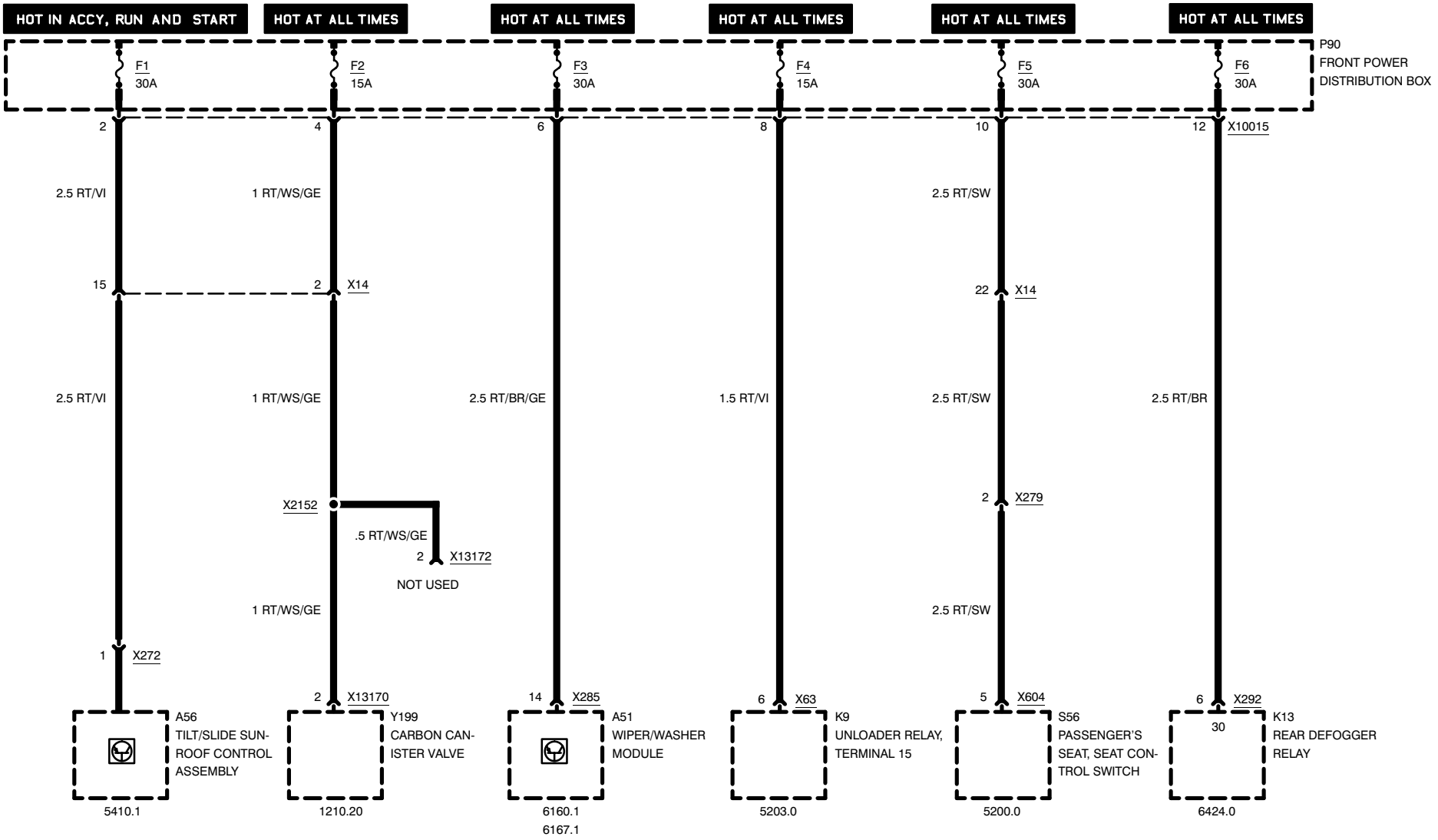


POWER DISTRIBUTION



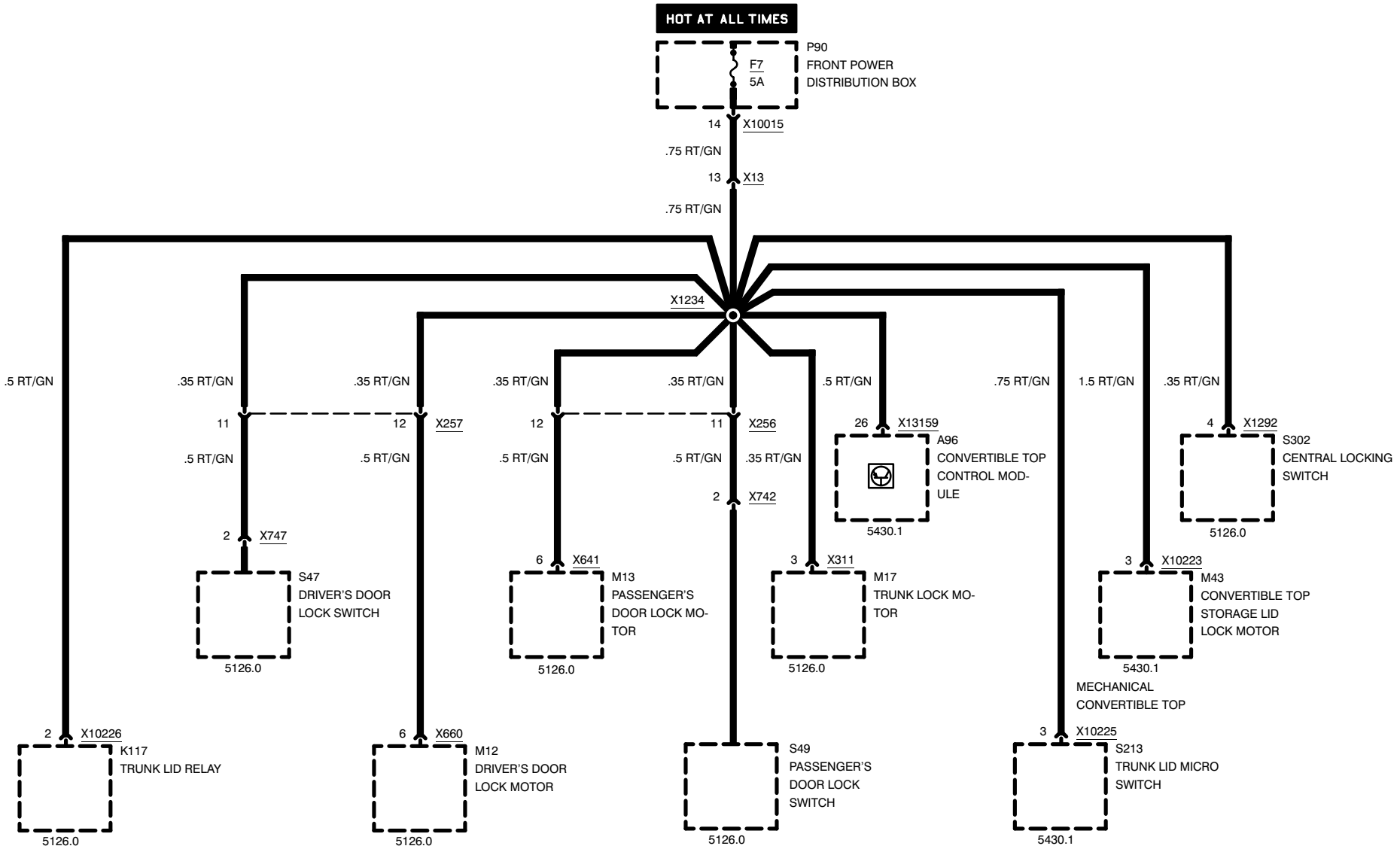
FUSE DETAILS

FUSES 1, 2, 3, 4, 5, AND 6



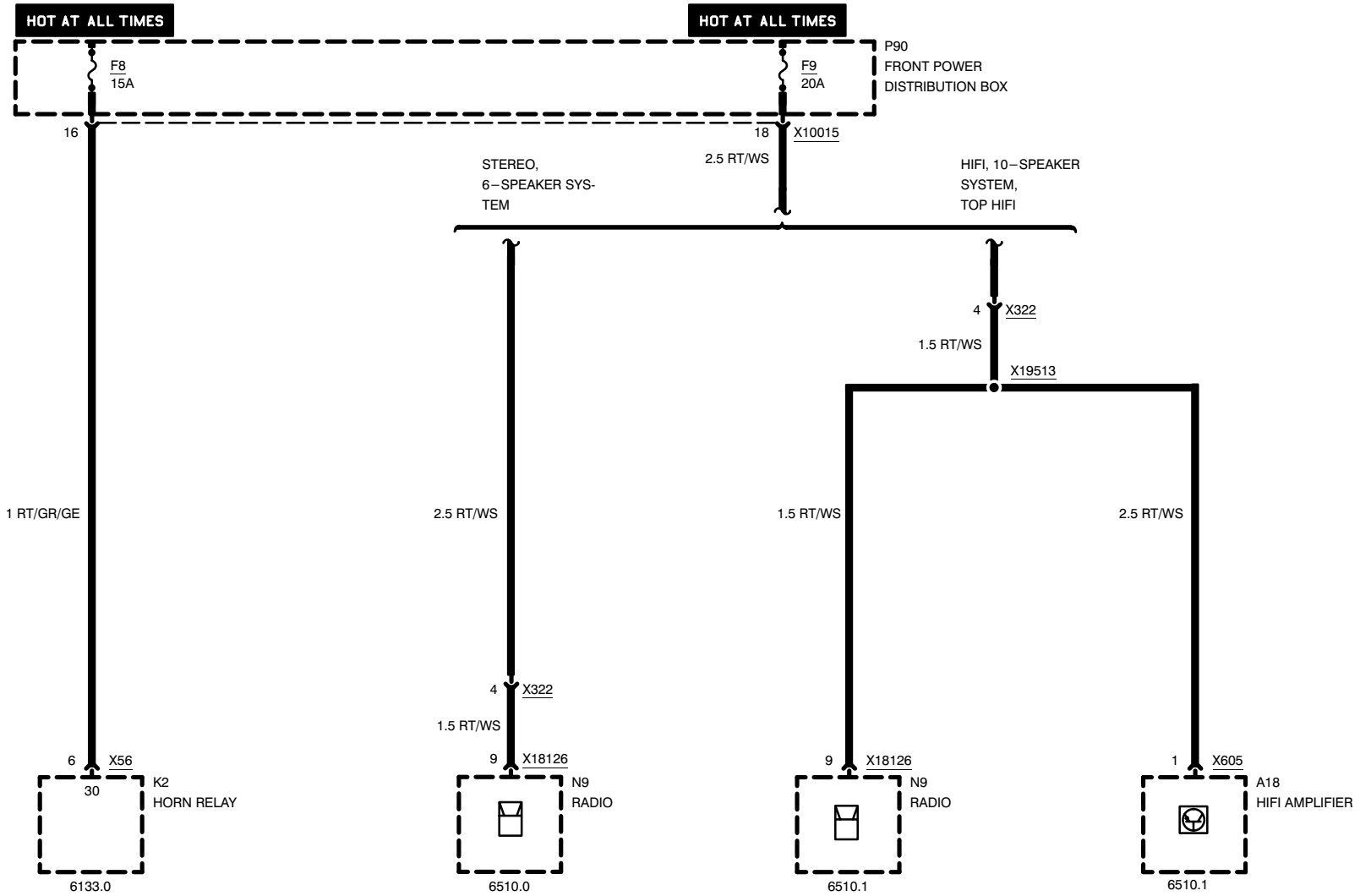
FUSE DETAILS

FUSE 7



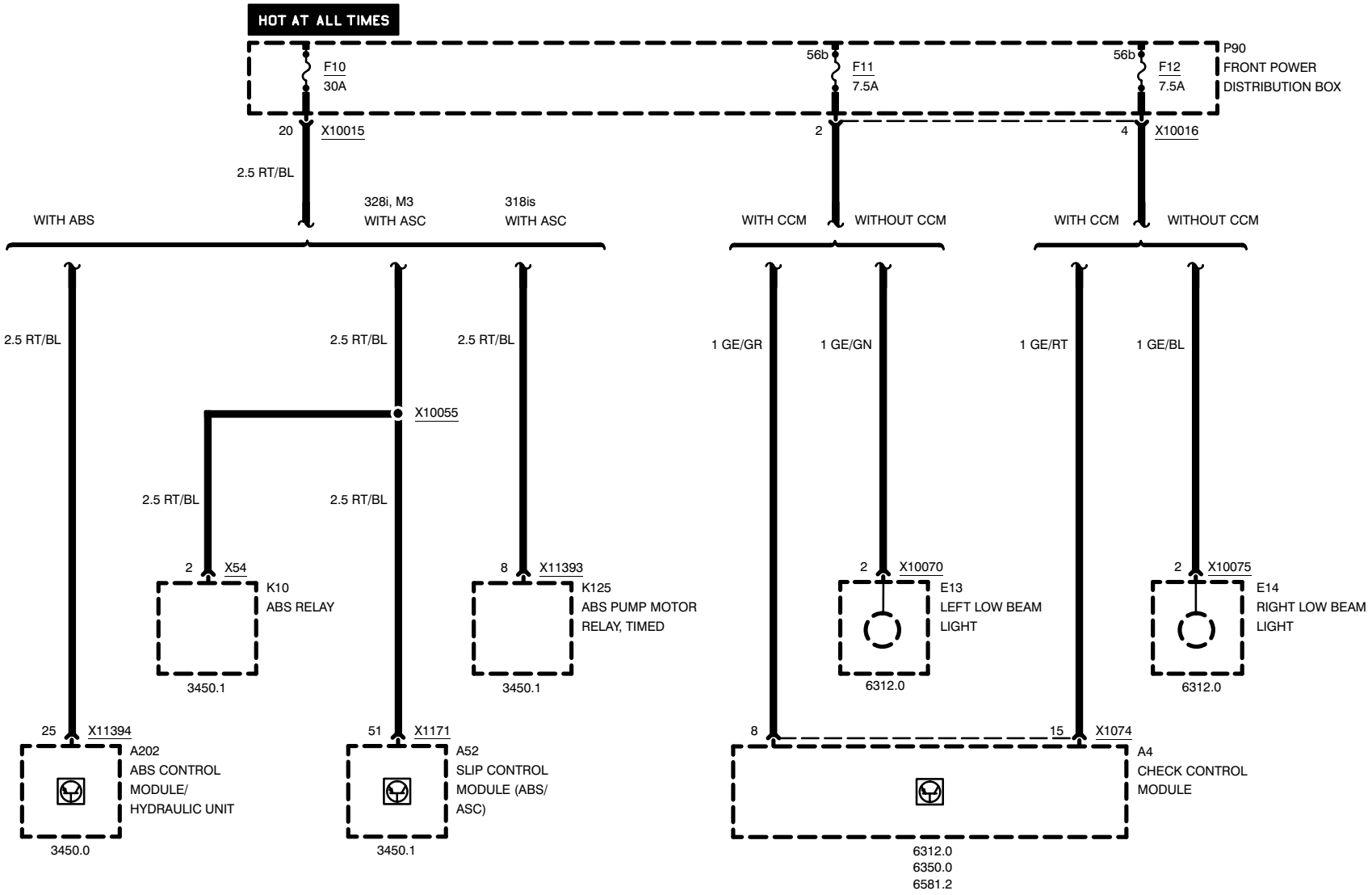
FUSE DETAILS

FUSES 8 AND 9



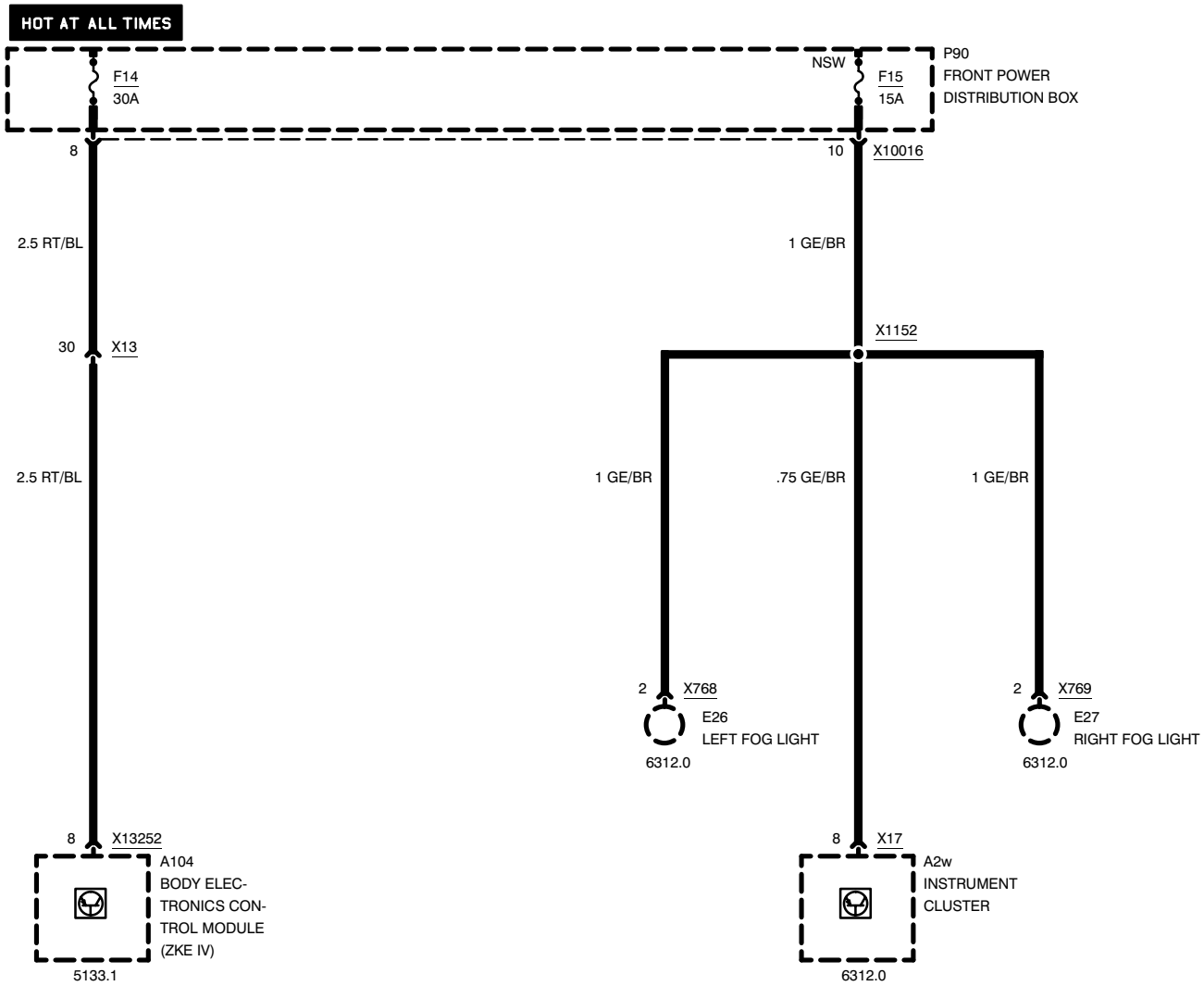
FUSE DETAILS

FUSES 10, 11, AND 12



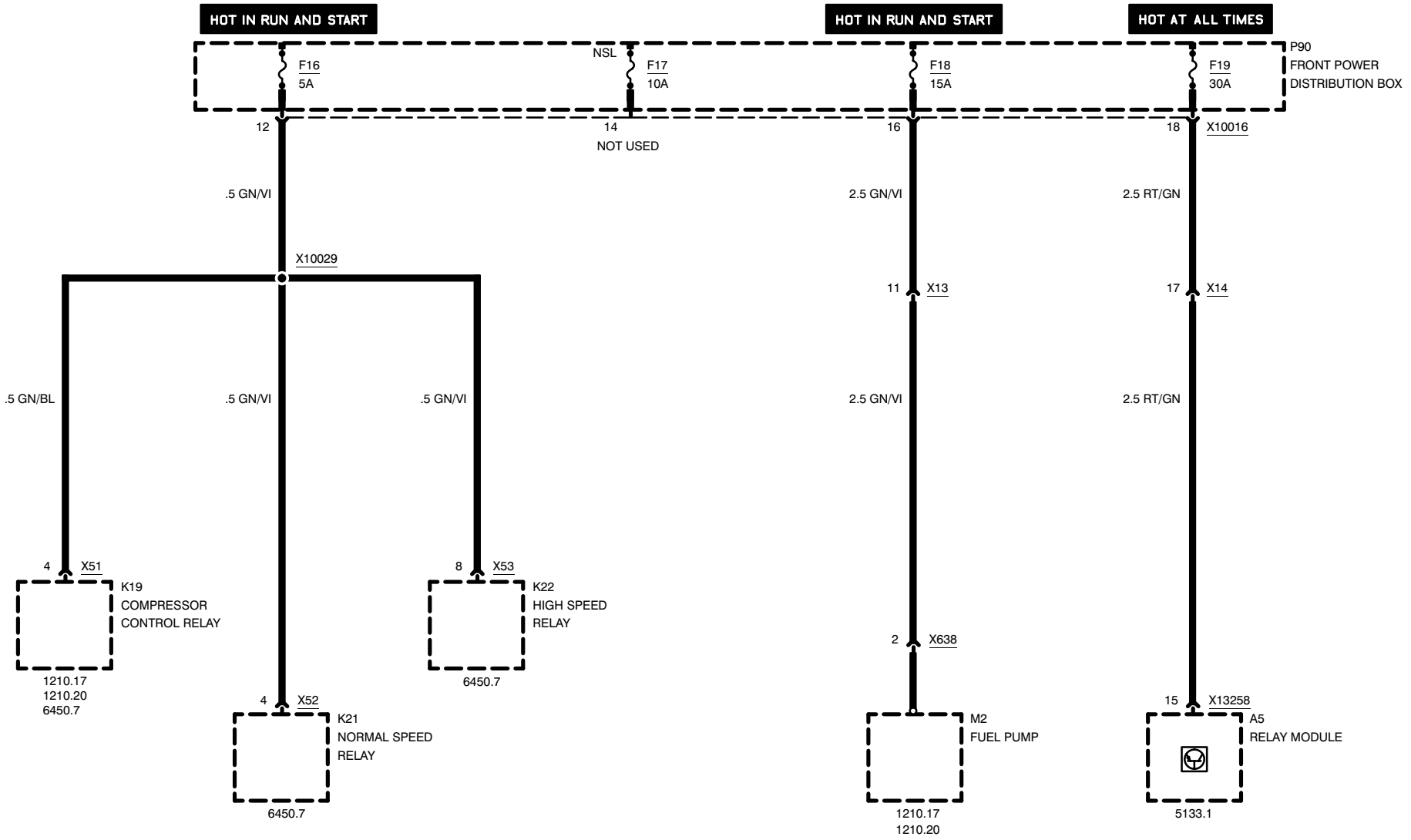
FUSE DETAILS

FUSES 14 AND 15



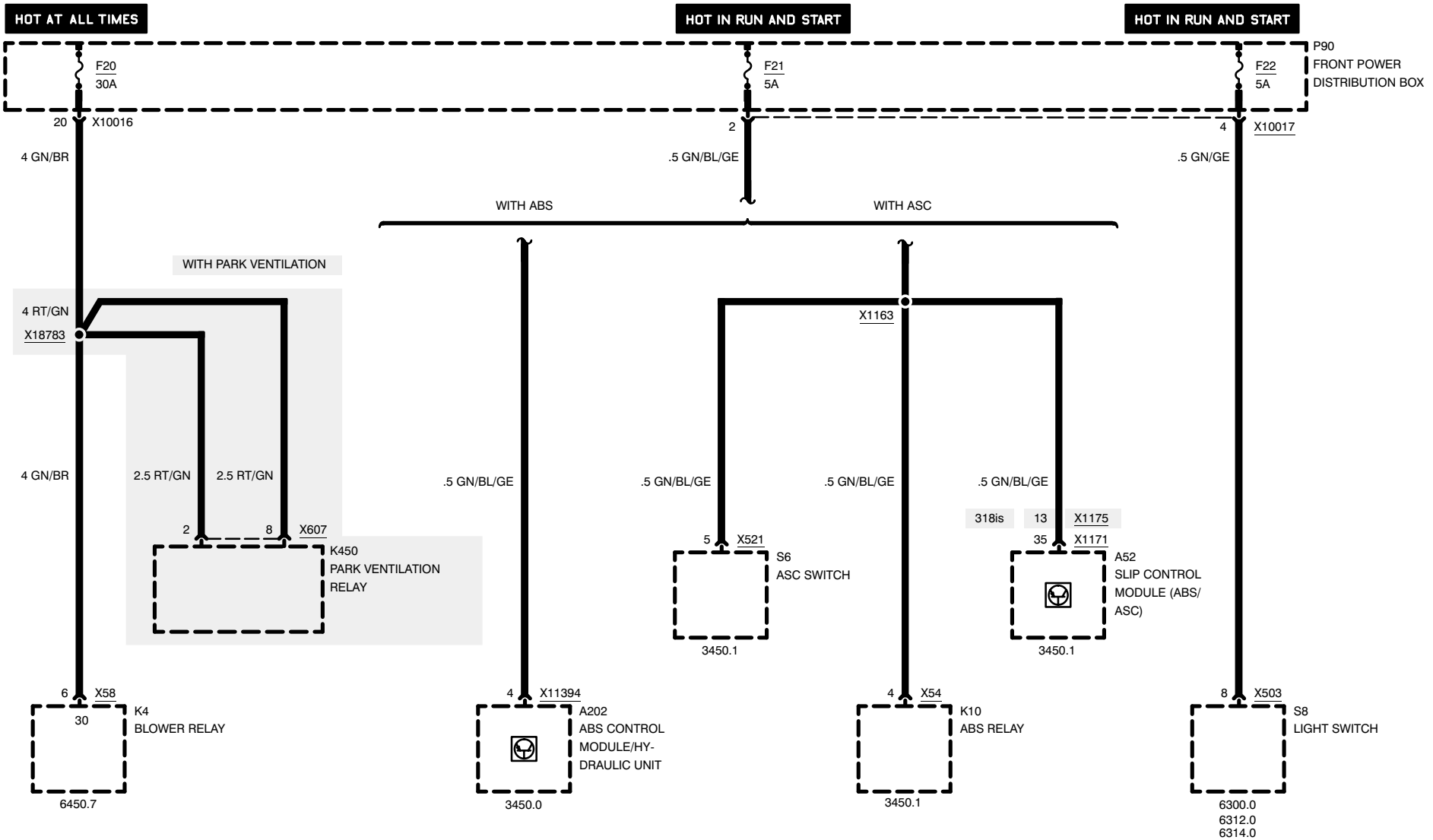
FUSE DETAILS

FUSES 16, 17, 18, AND 19



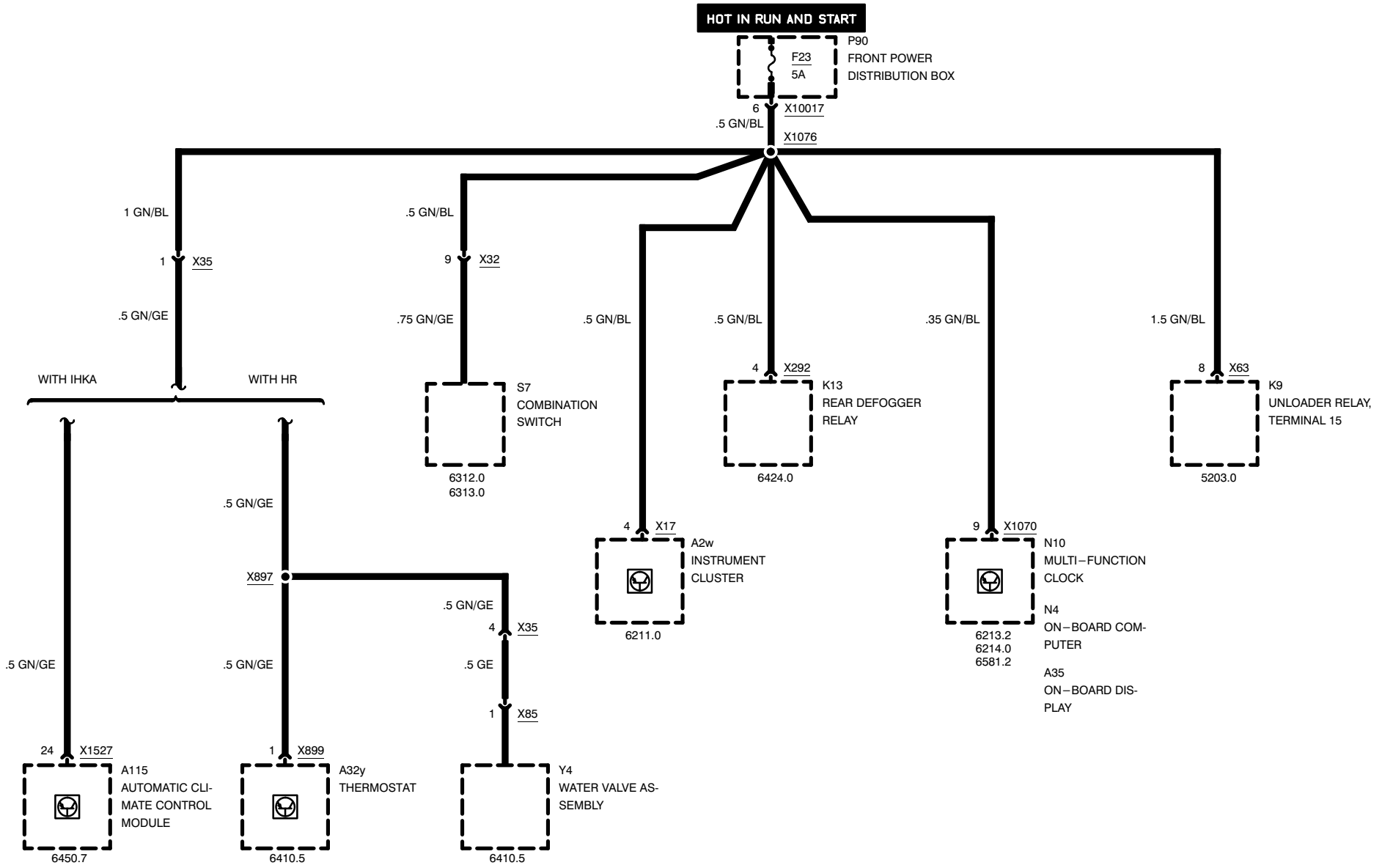
FUSE DETAILS

FUSES 20, 21, AND 22



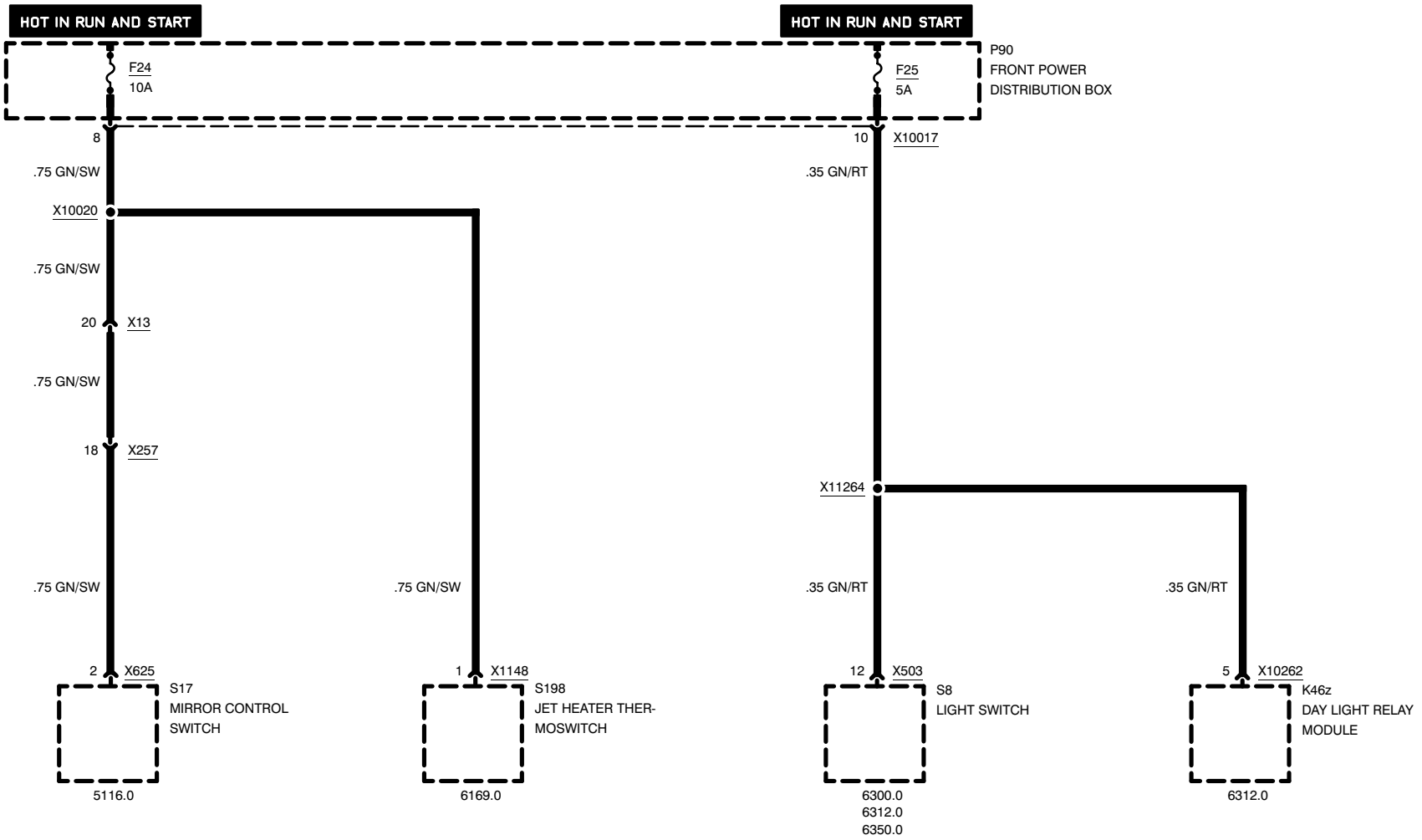
FUSE DETAILS

FUSE 23



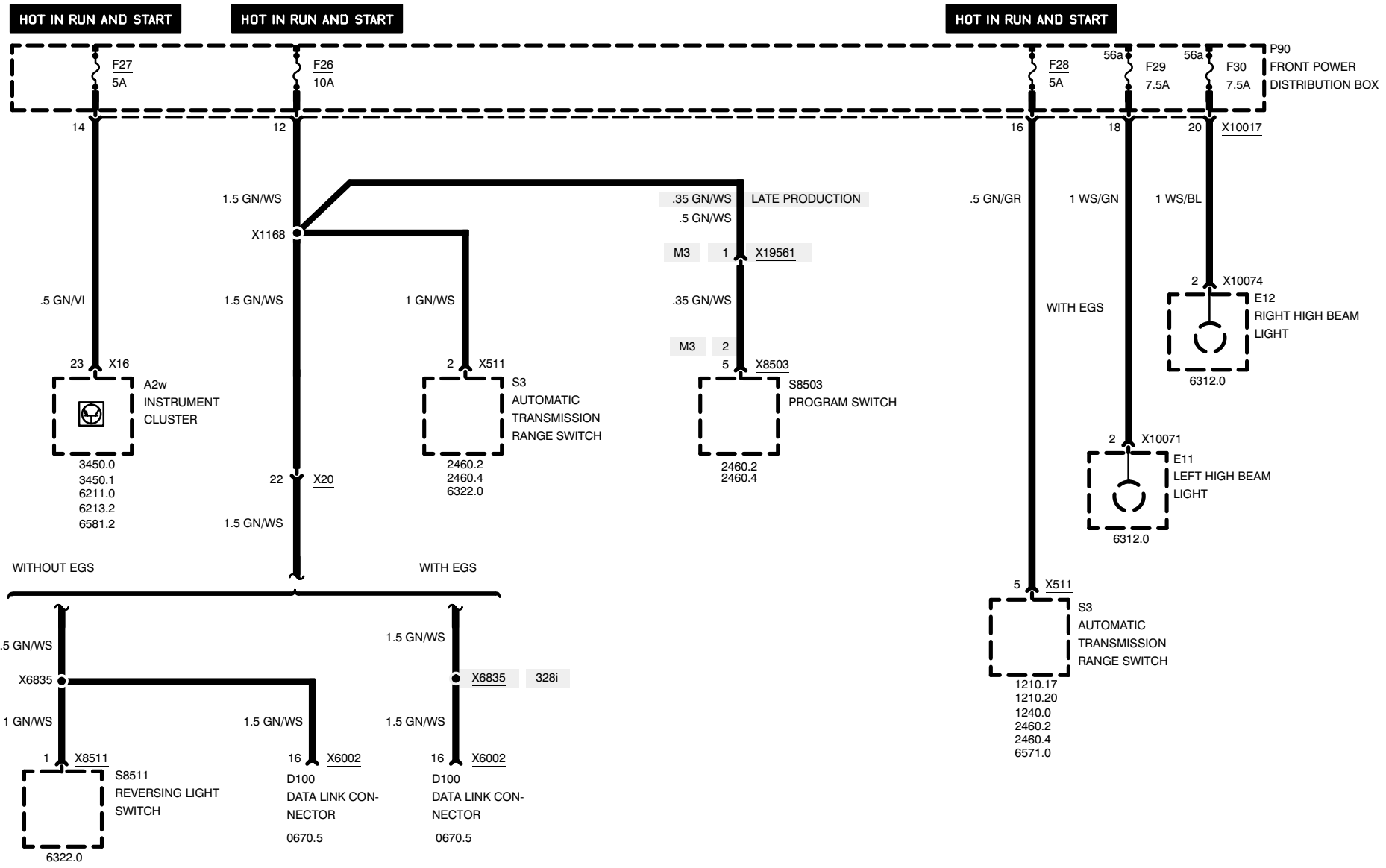
FUSE DETAILS

FUSES 24 AND 25



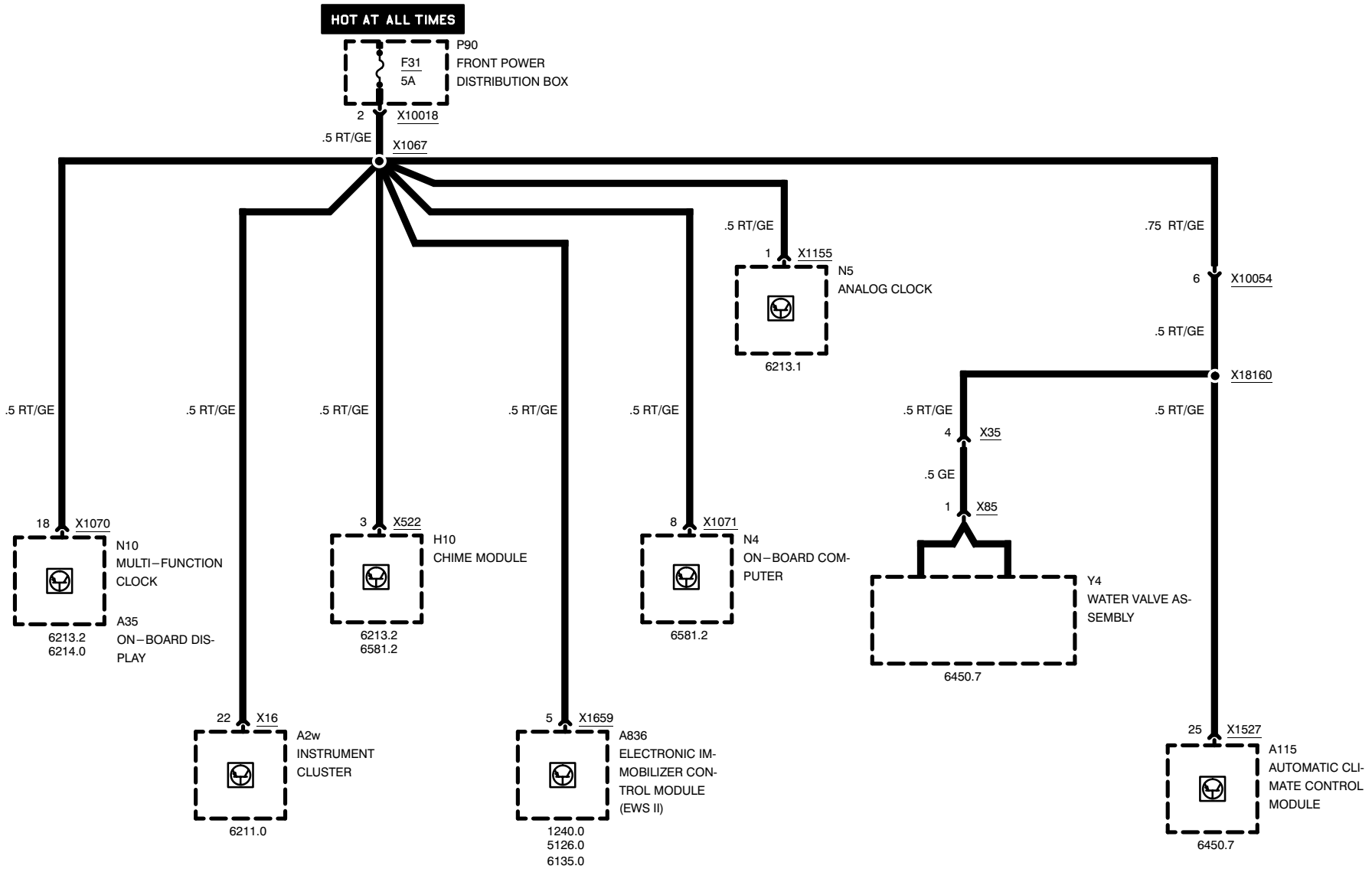
FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30



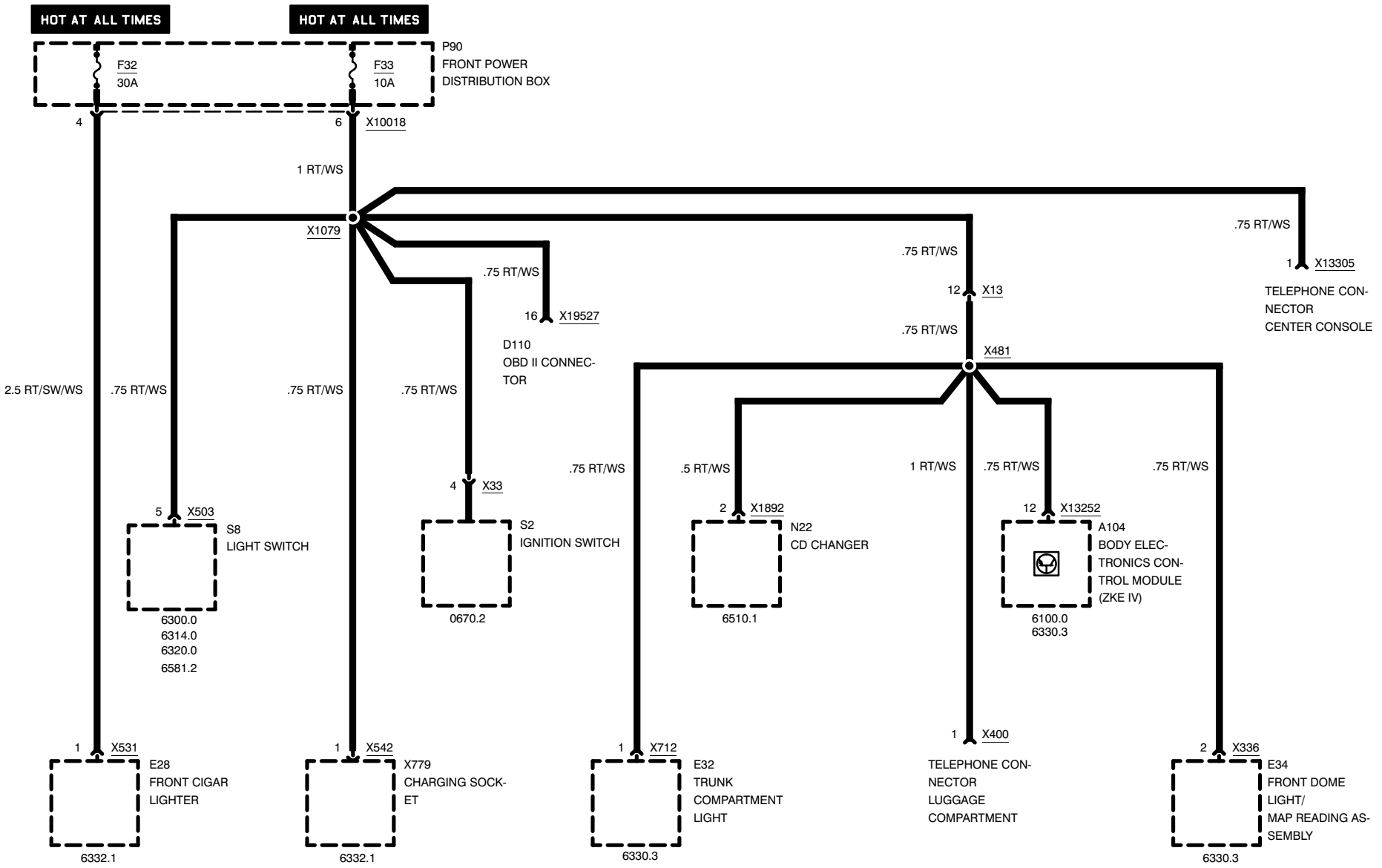
FUSE DETAILS

FUSE 31



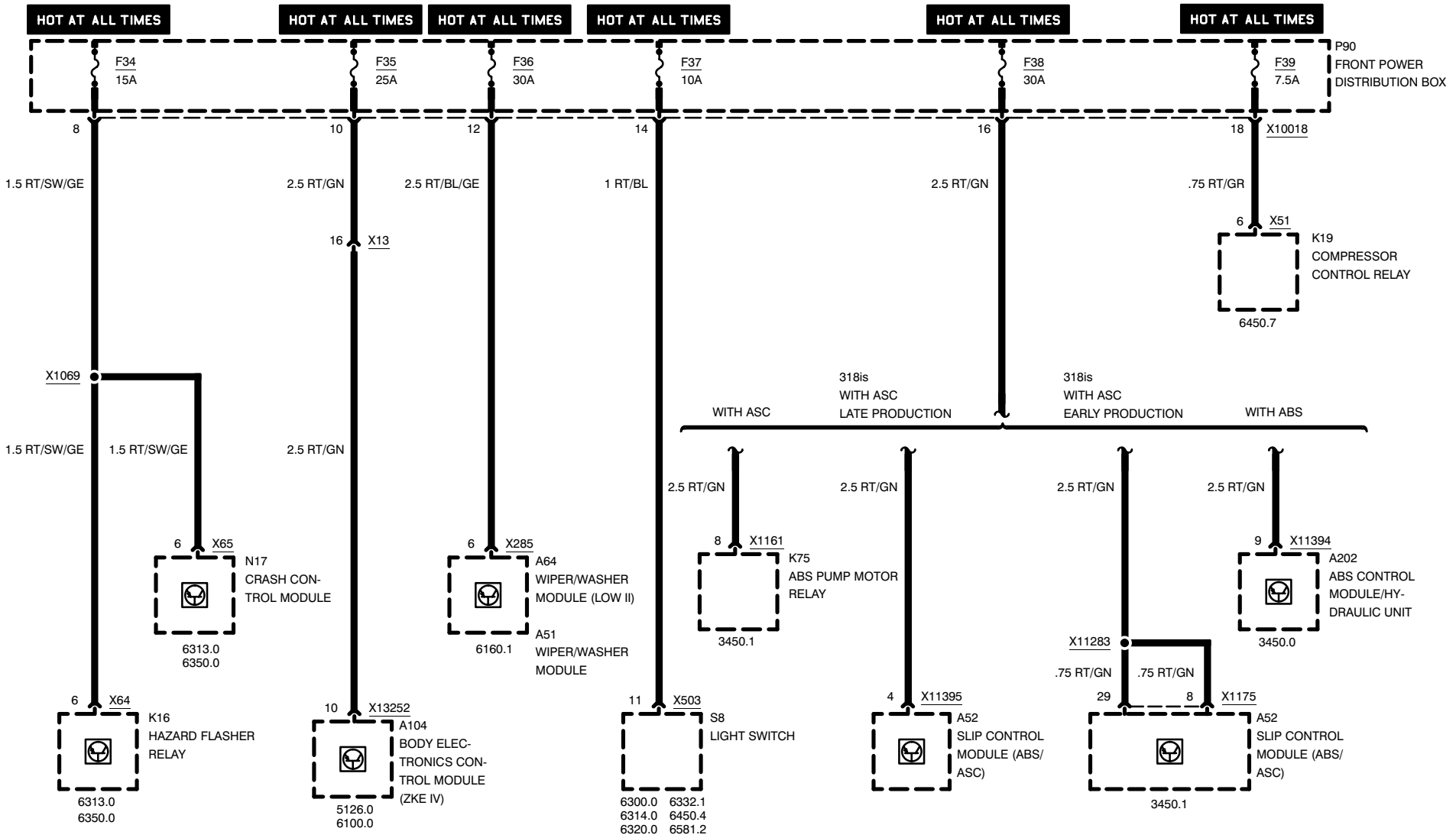
FUSE DETAILS

FUSES 32 AND 33



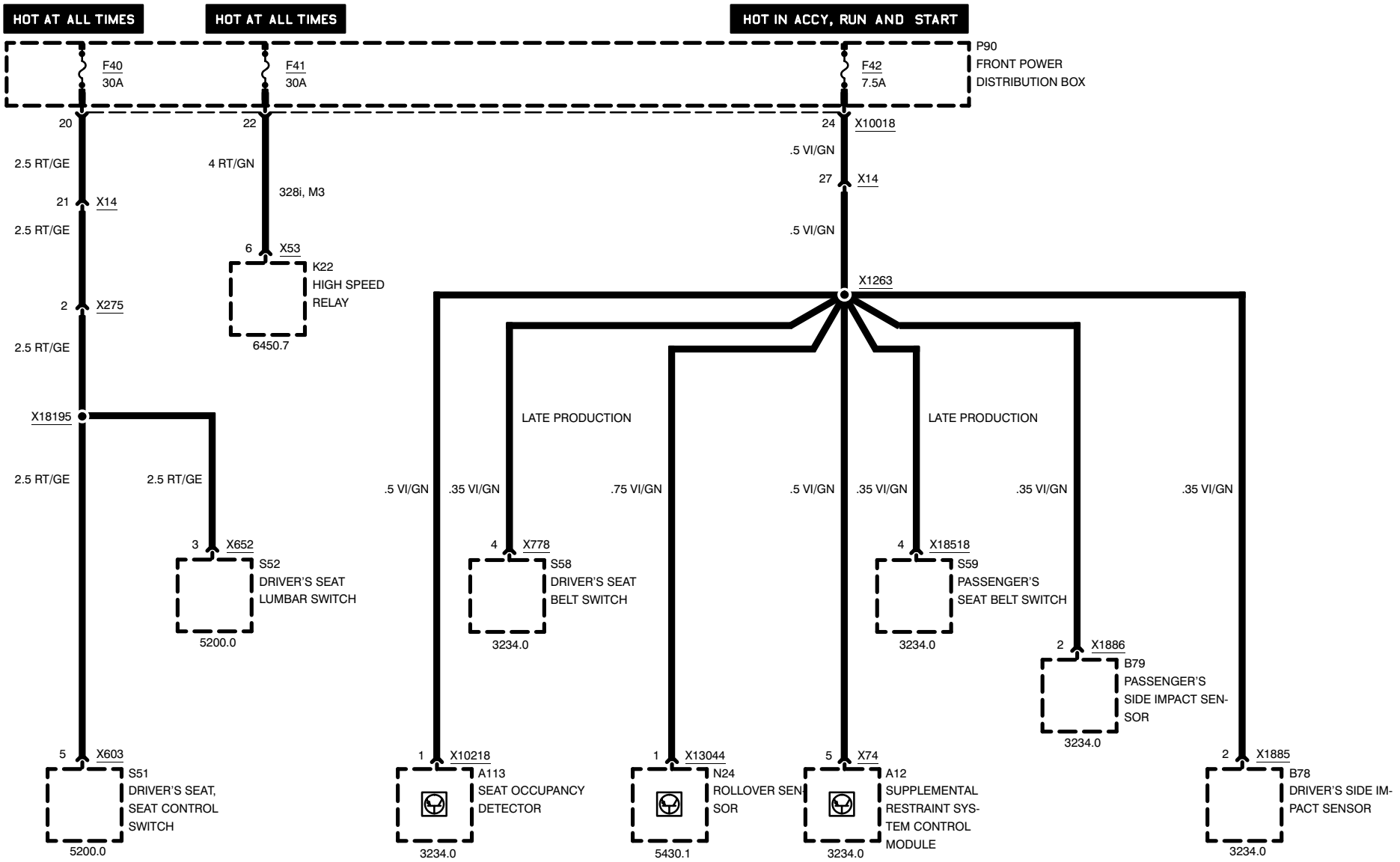
FUSE DETAILS

FUSES 34, 35, 36, 37, 38, AND 39



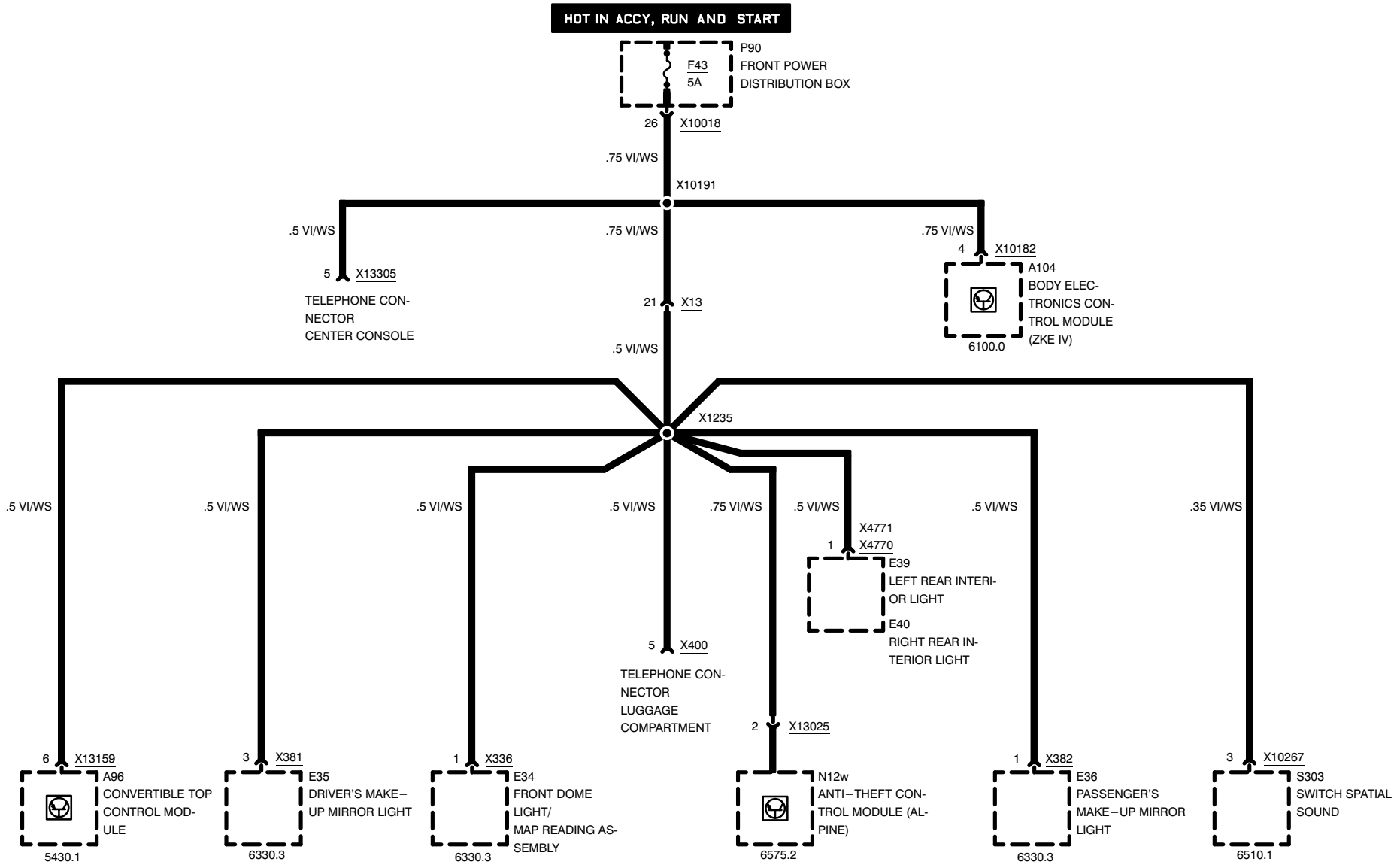
FUSE DETAILS

FUSES 40, 41, AND 42



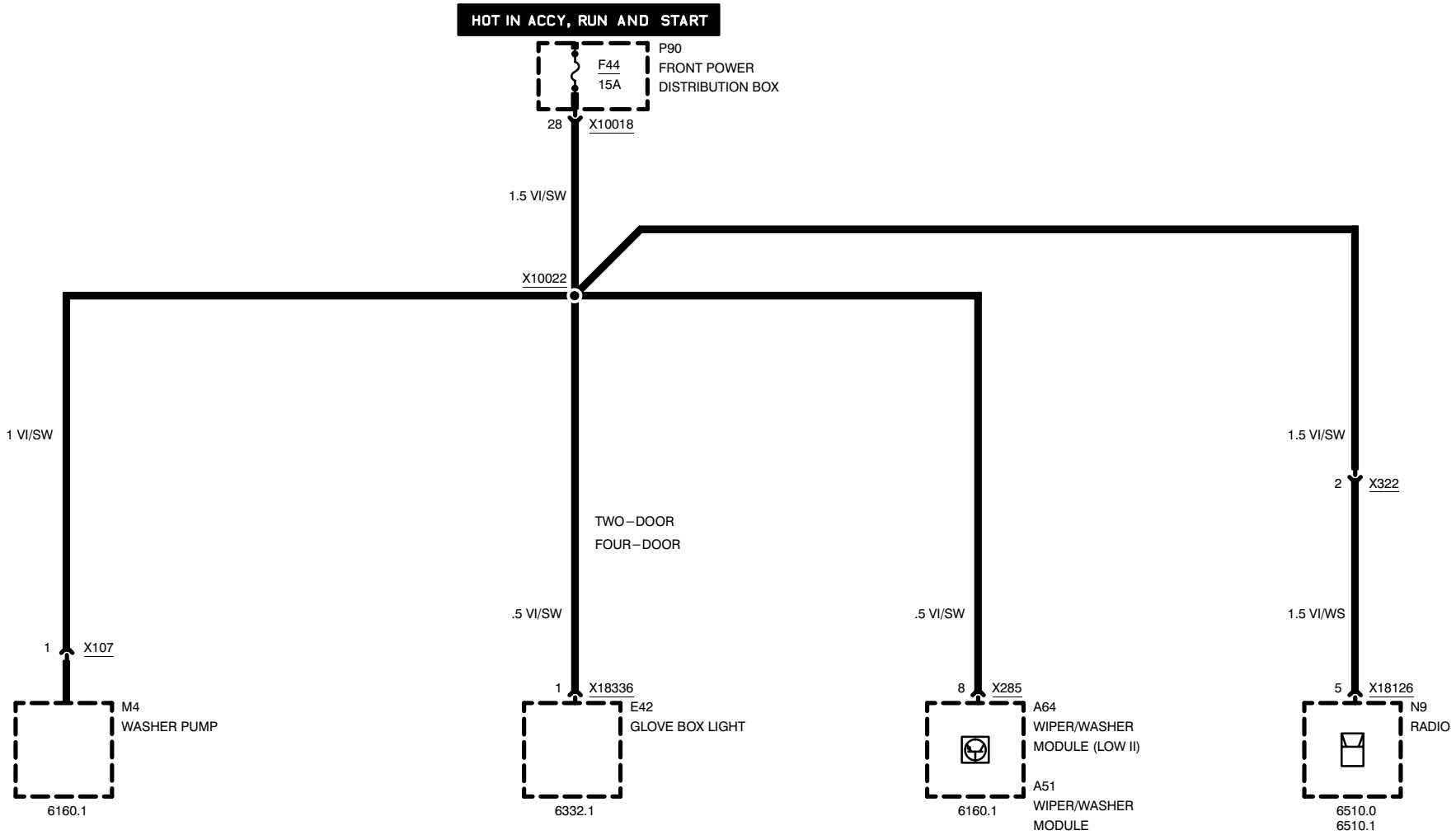
FUSE DETAILS

FUSE 43



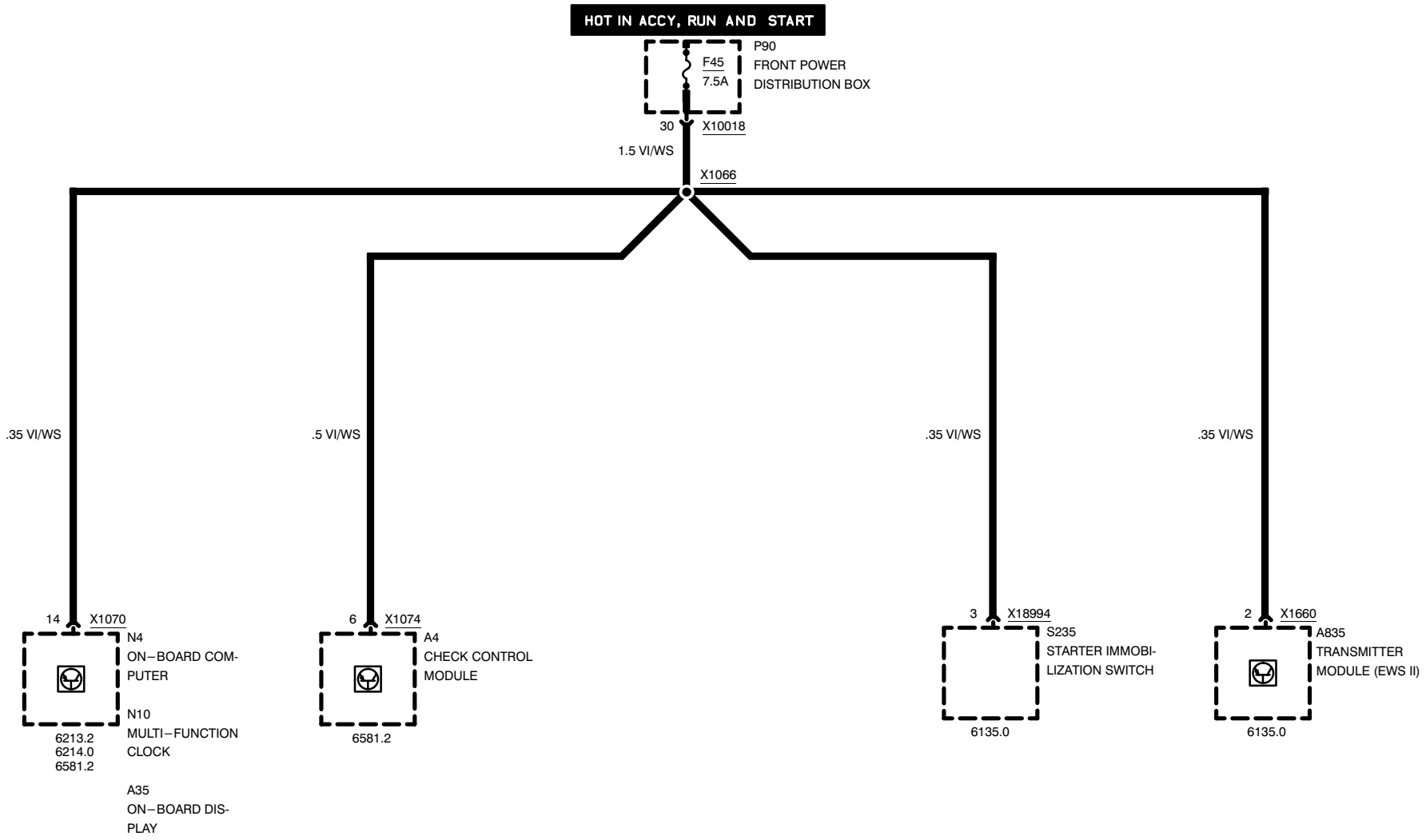
FUSE DETAILS

FUSE 44



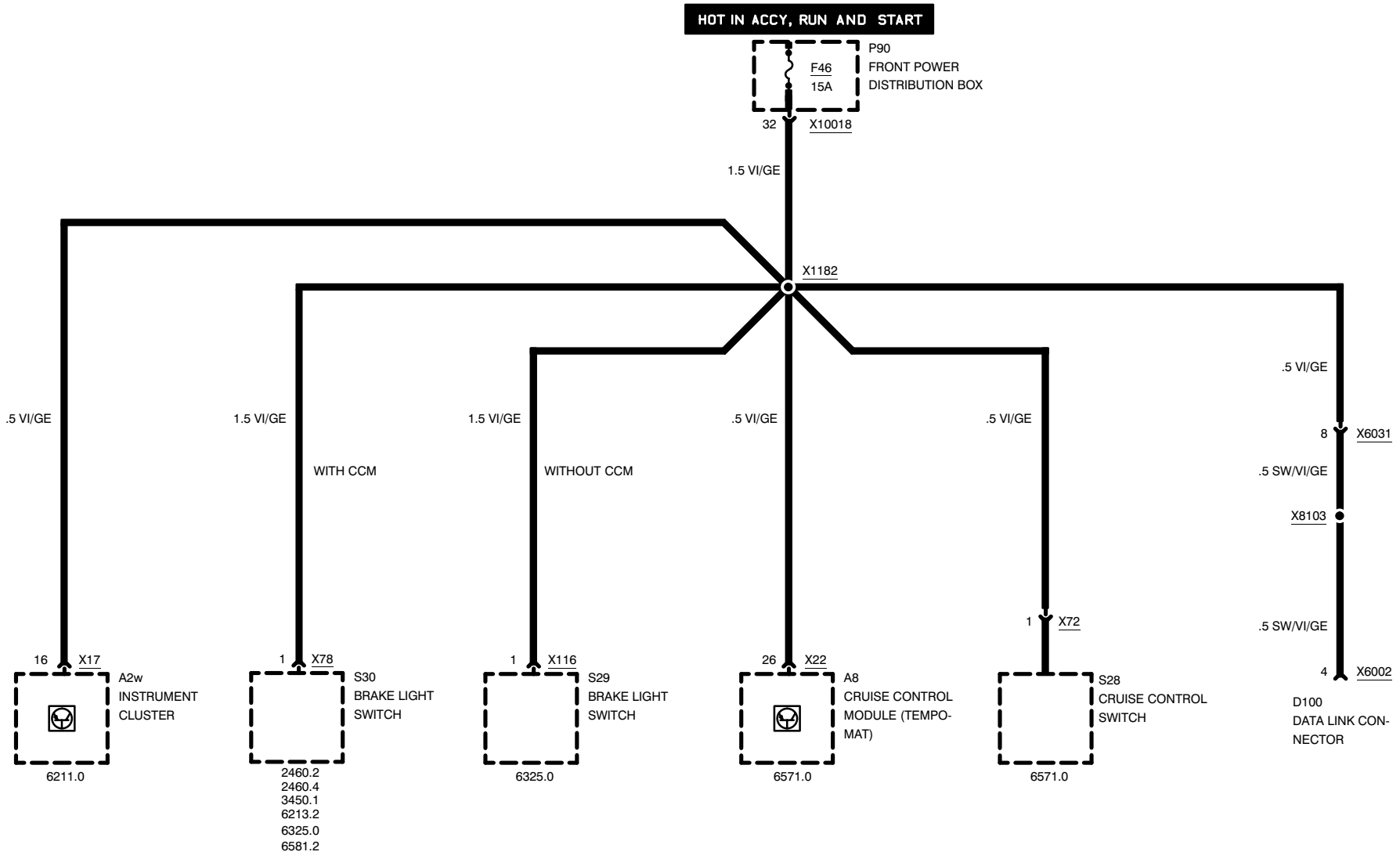
FUSE DETAILS

FUSE 45



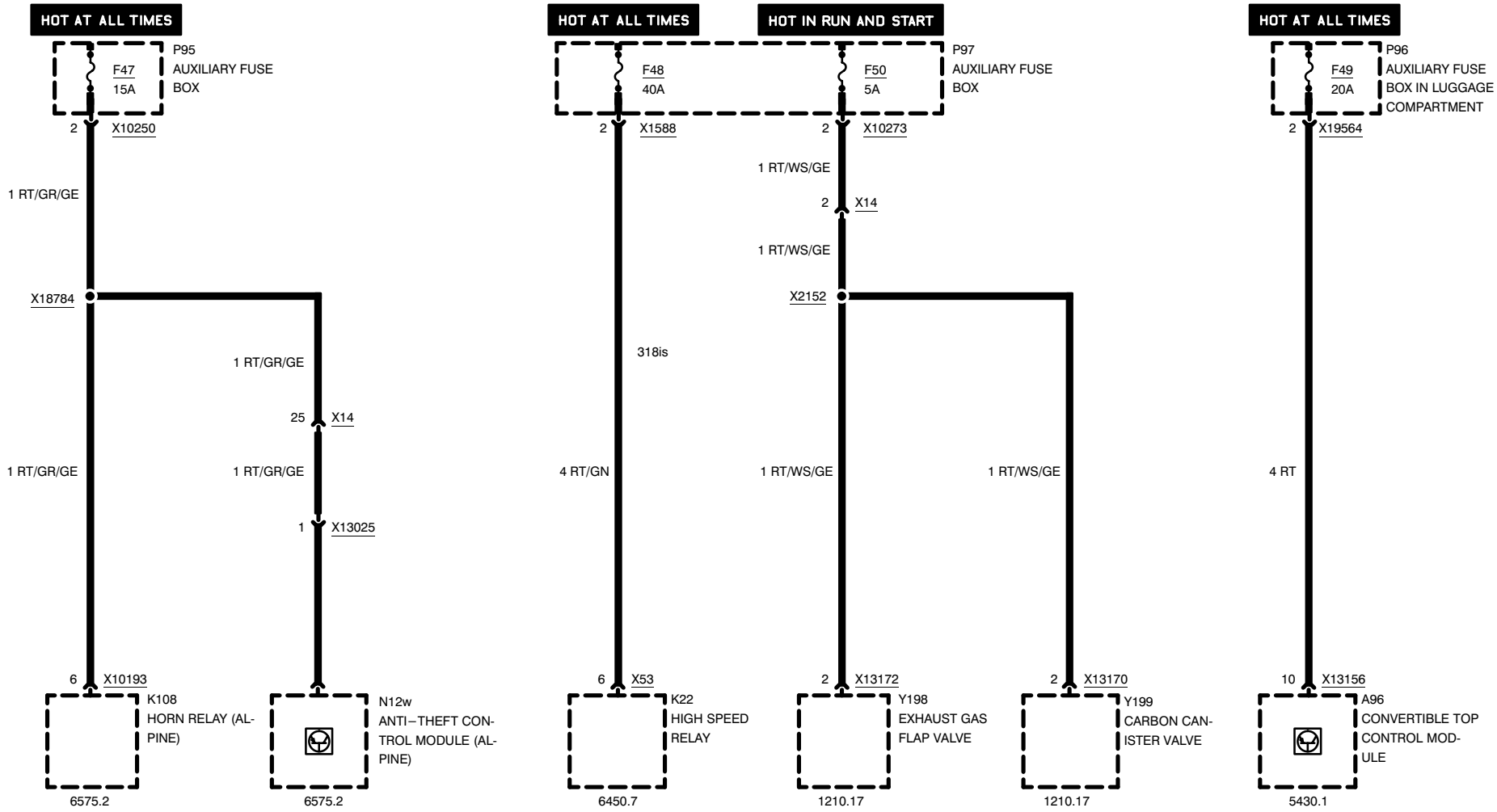
FUSE DETAILS

FUSE 46



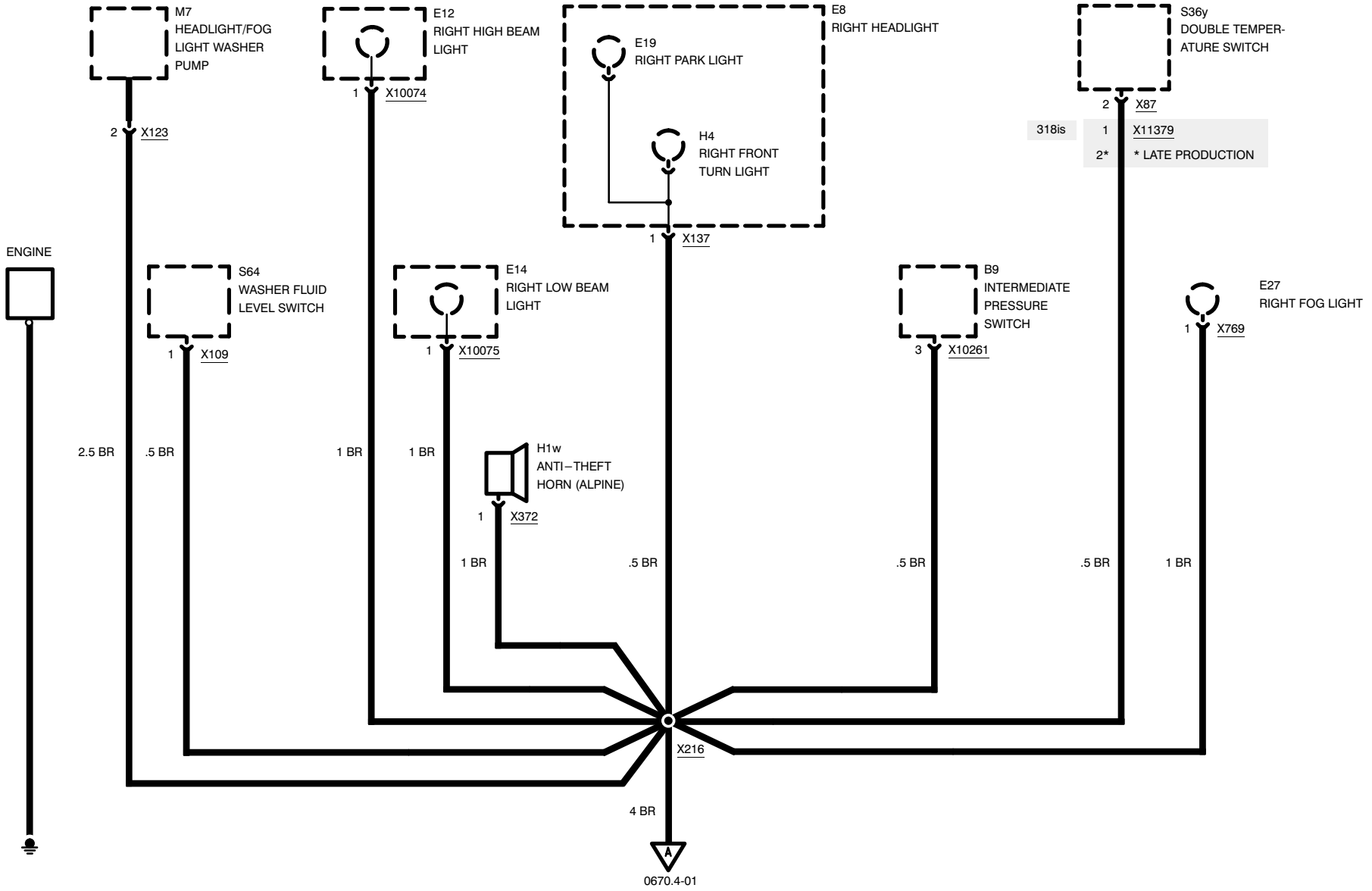
FUSE DETAILS

FUSES 47, 48, 49, AND 50



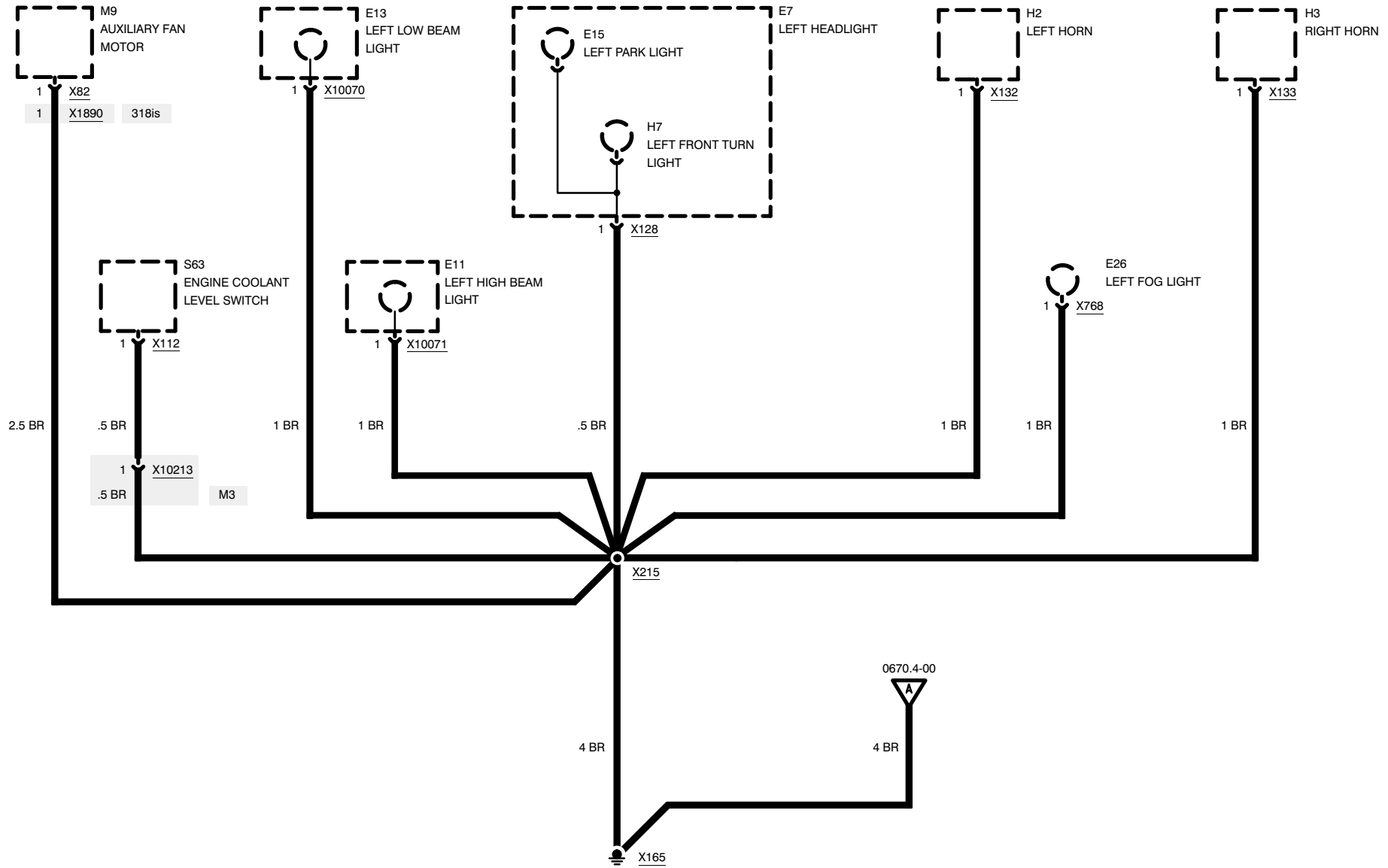
GROUND DISTRIBUTION

GROUND X165



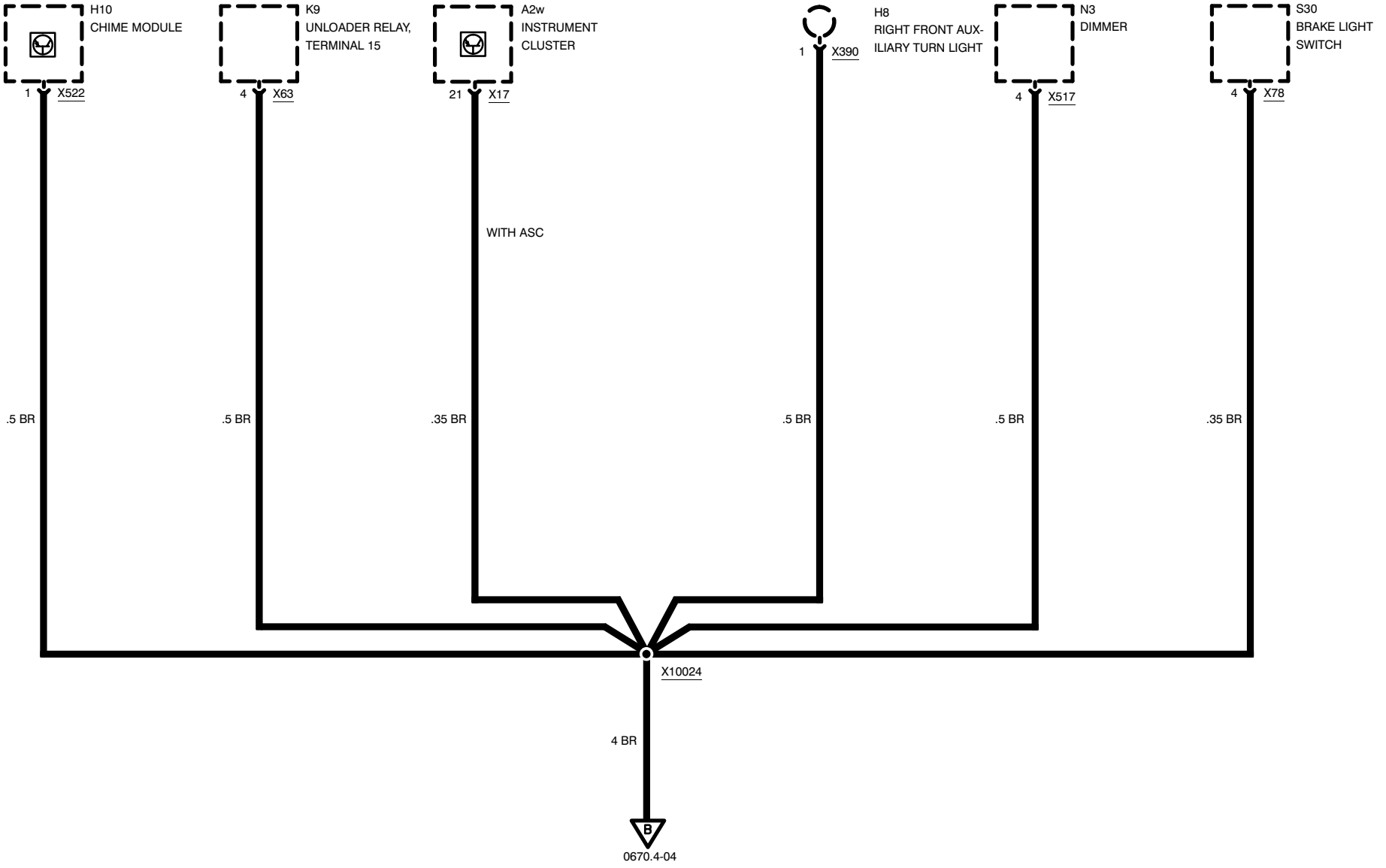
GROUND DISTRIBUTION

GROUND X165



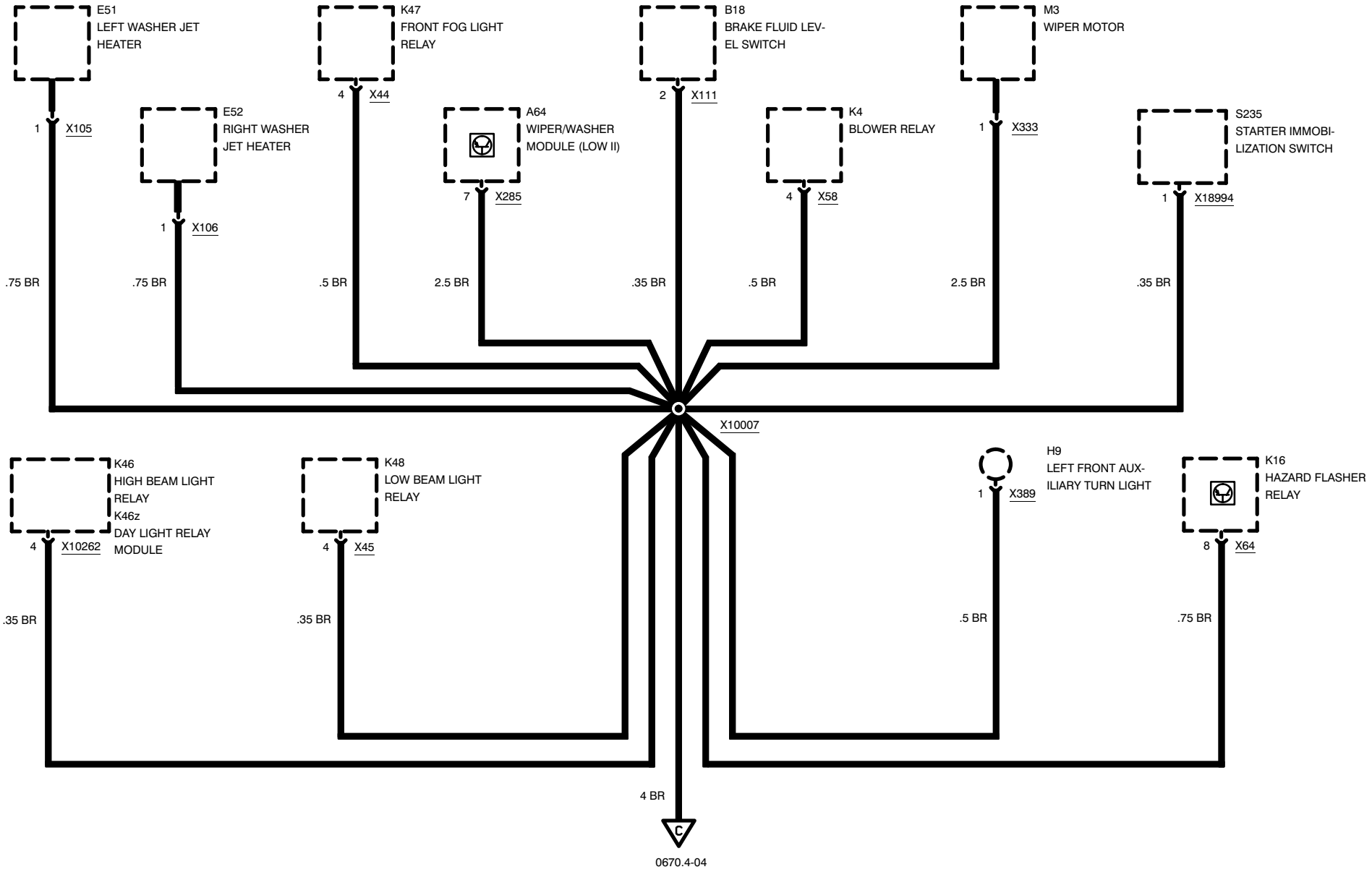
GROUND DISTRIBUTION

GROUND X173



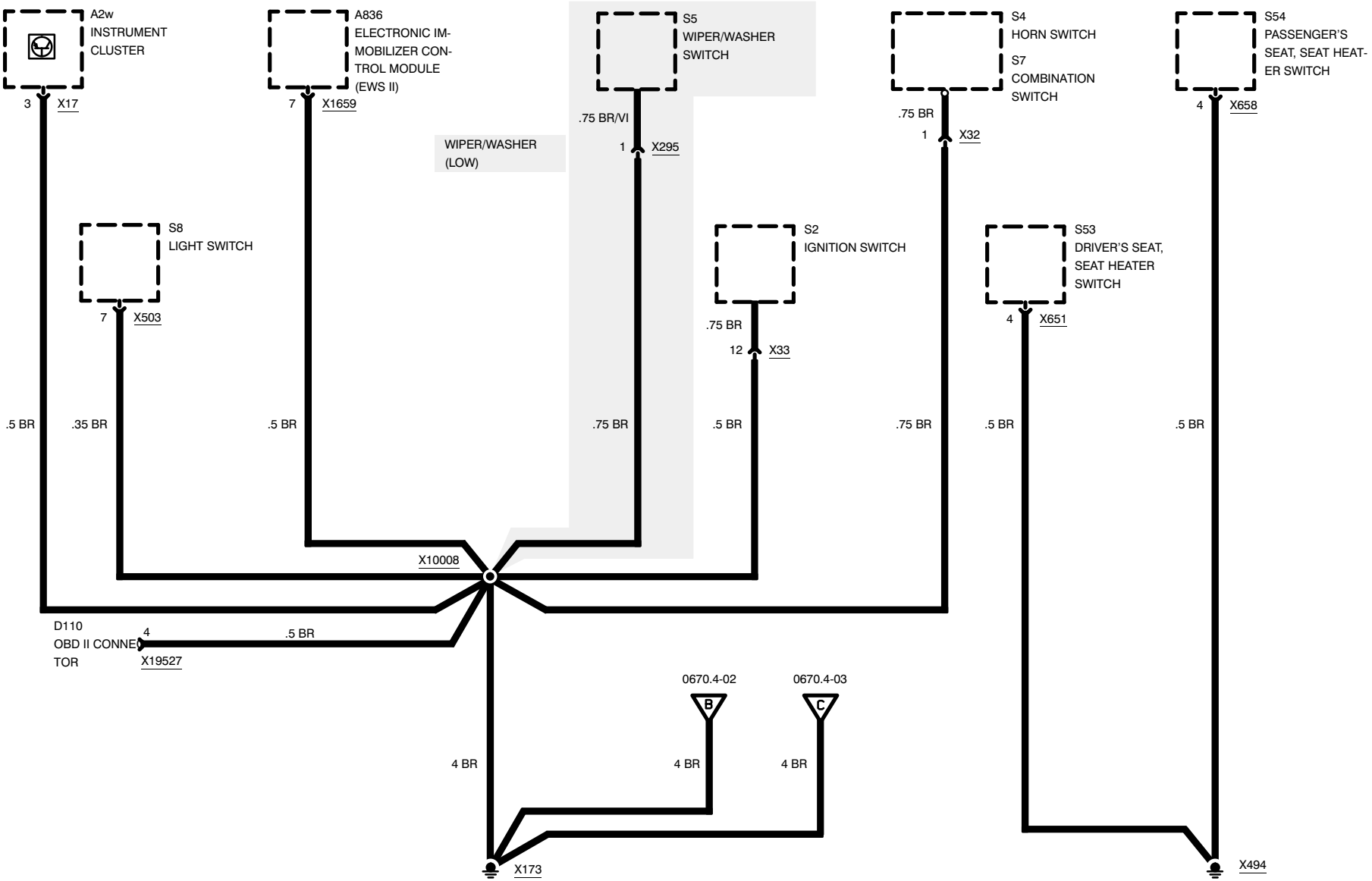
GROUND DISTRIBUTION

GROUND X173



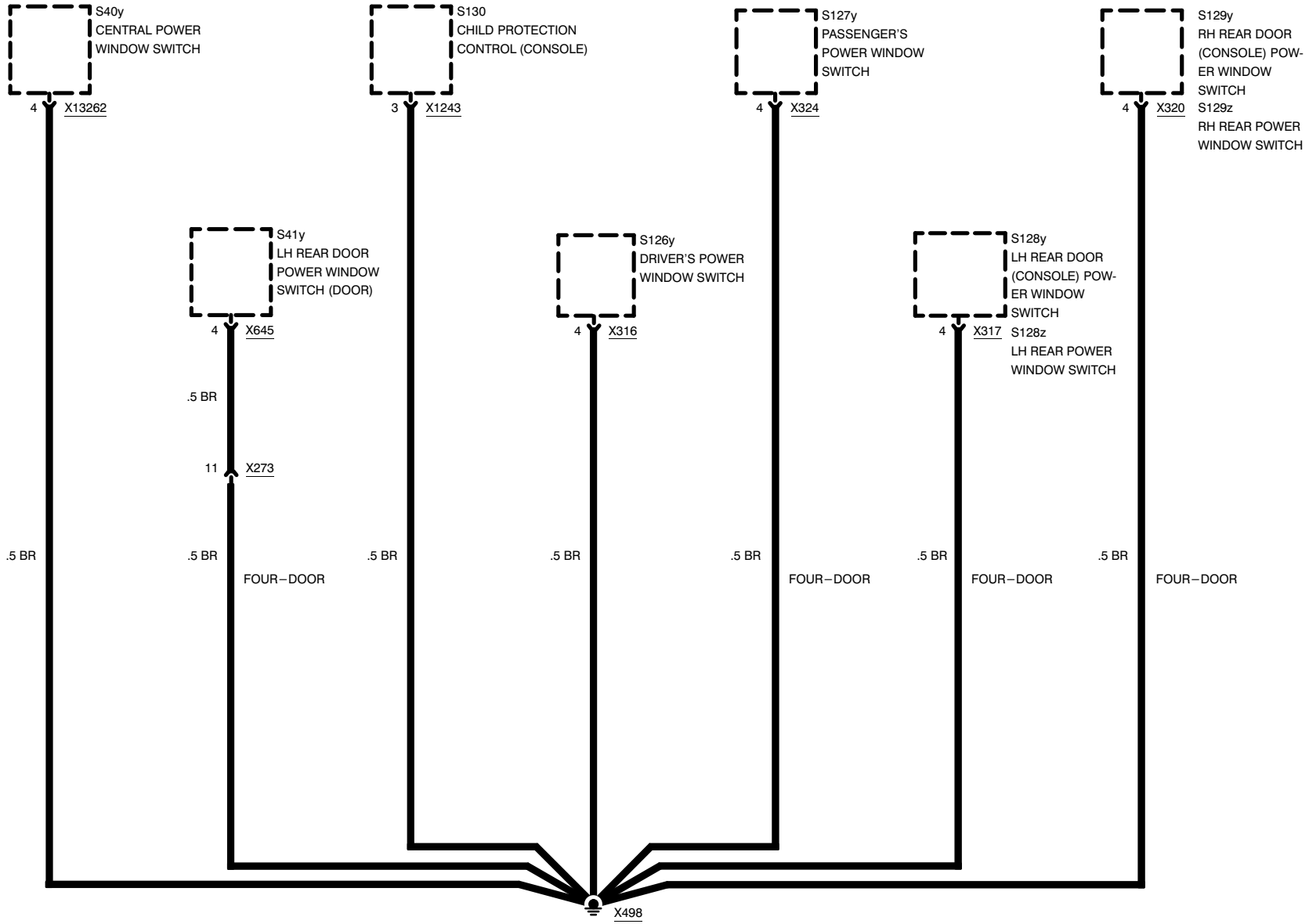
GROUND DISTRIBUTION

GROUNDS X173 AND X494



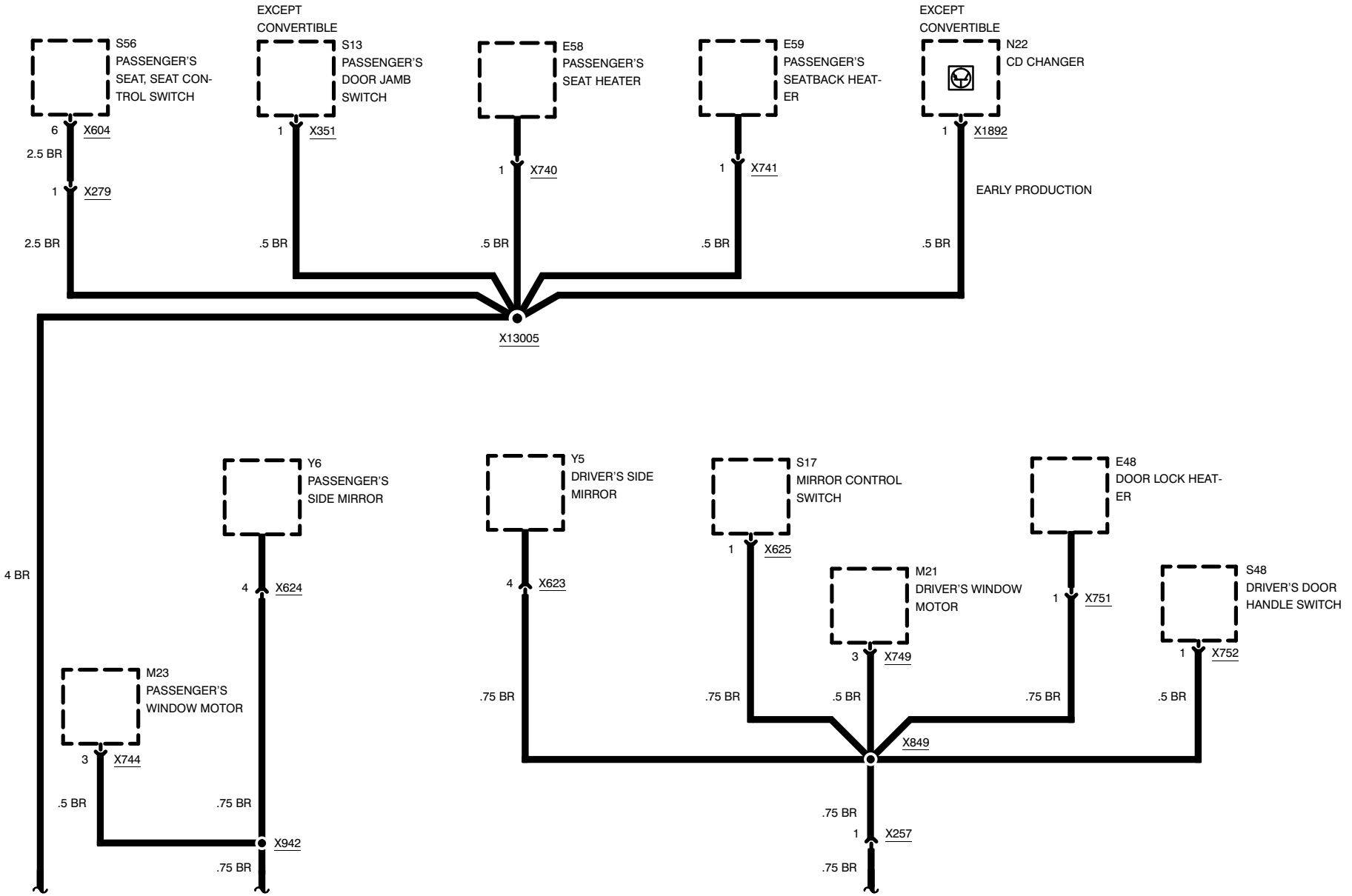
GROUND DISTRIBUTION

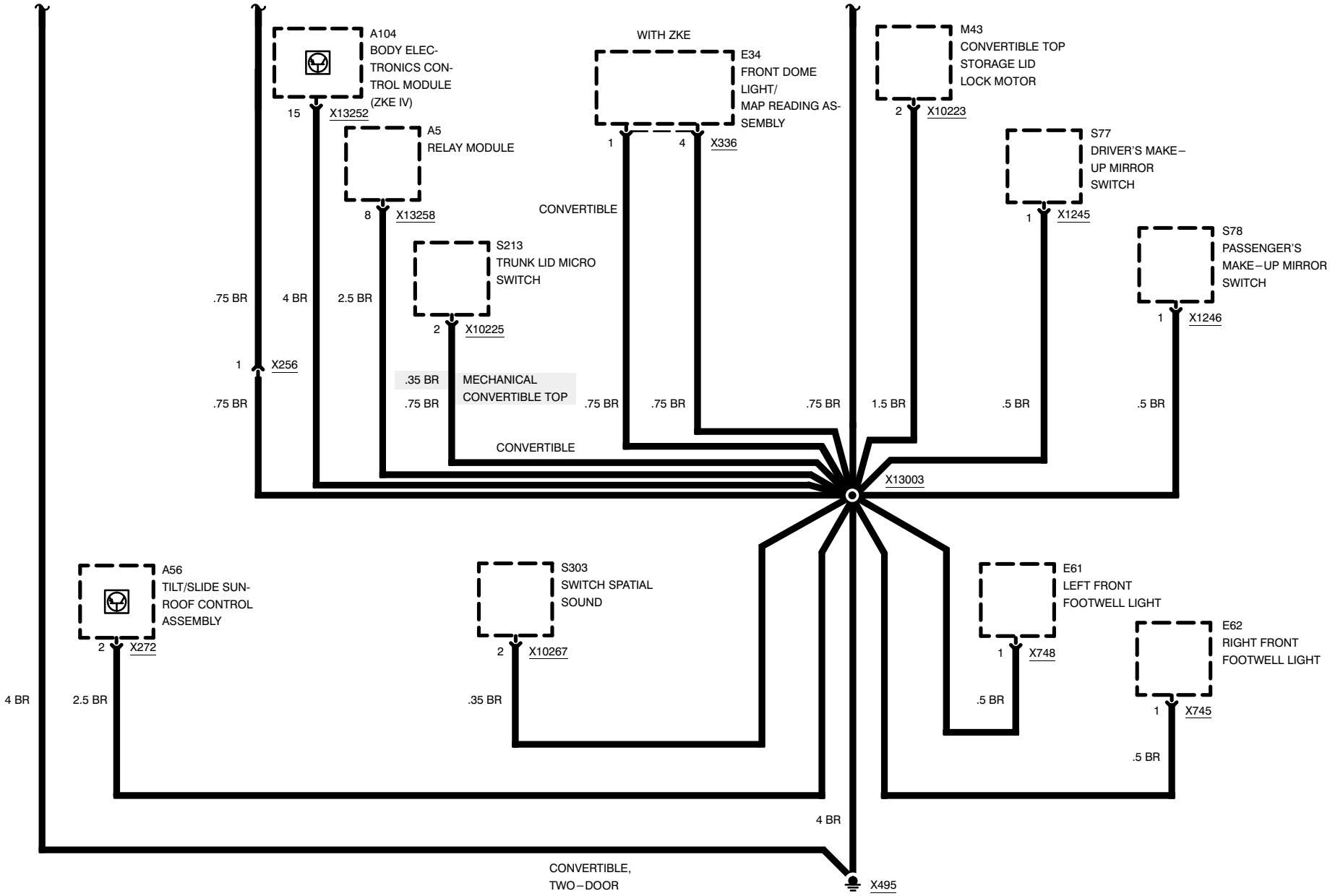
GROUND X498



GROUND DISTRIBUTION

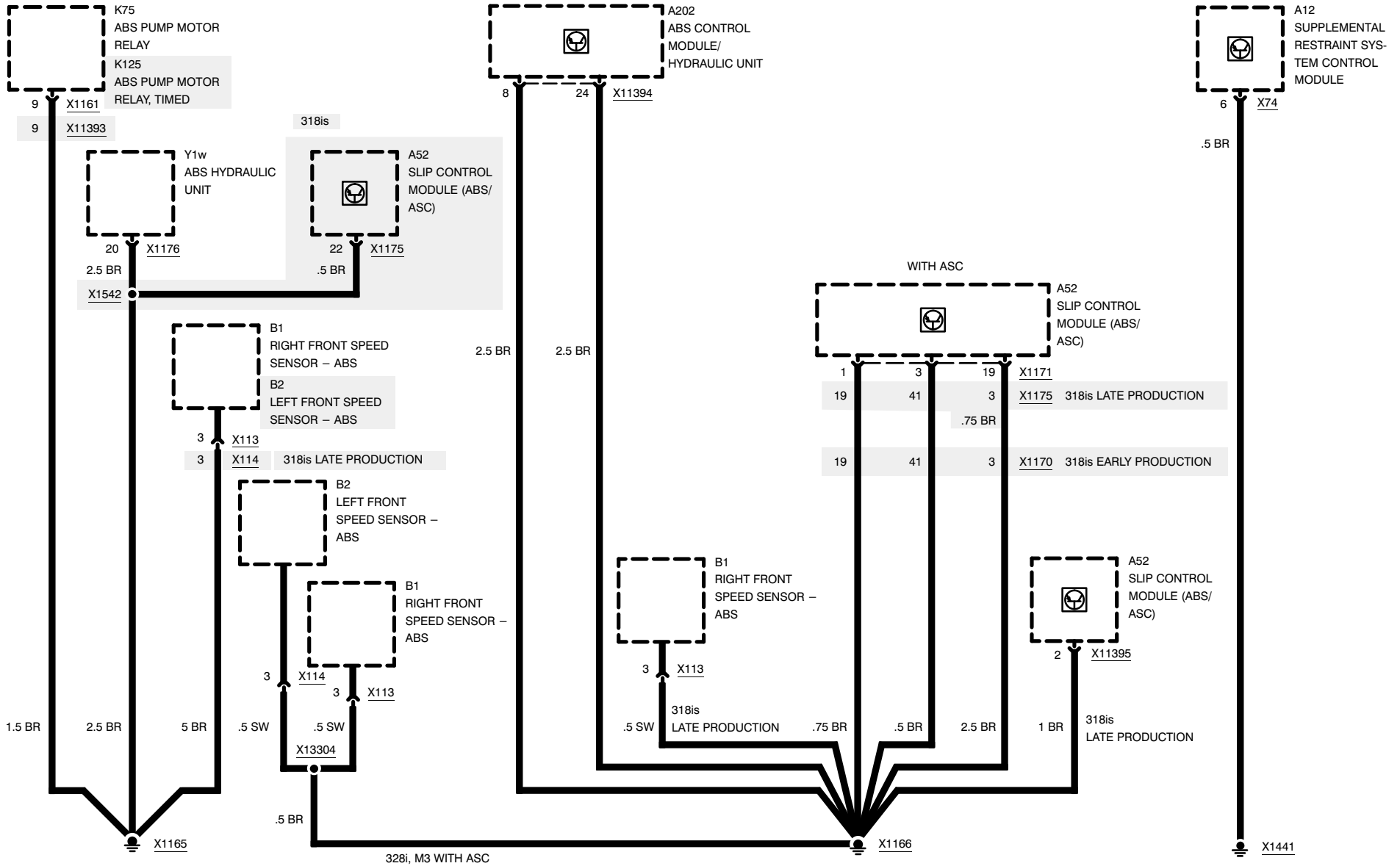
GROUND X495




A104
BODY ELEC-
TRONICS CON-
TROL MODULE
(ZKE IV)
15
X13252
A5
RELAY MODULE
8
X13258
S213
TRUNK LID MICRO
SWITCH
2
X10225
1
X256
WITH ZKE
E34
FRONT DOME
LIGHT/
MAP READING AS-
SEMBLY
1
4
X336
CONVERTIBLE
M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR
2
X10223
S77
DRIVER'S MAKE–
UP MIRROR
SWITCH
1
X1245
S78
PASSENGER'S
MAKE–UP MIRROR
SWITCH
1
X1246
.75 BR
4 BR
2.5 BR
.35 BR
MECHANICAL
CONVERTIBLE TOP
.75 BR
.75 BR
.75 BR
.75 BR
1.5 BR
.5 BR
.5 BR
CONVERTIBLE
X13003
A56
TILT/SLIDE SUN-
ROOF CONTROL
ASSEMBLY
2
X272
S303
SWITCH SPATIAL
SOUND
2
X10267
E61
LEFT FRONT
FOOTWELL LIGHT
1
X748
E62
RIGHT FRONT
FOOTWELL LIGHT
1
X745
4 BR
2.5 BR
.35 BR
.5 BR
.5 BR
4 BR
CONVERTIBLE,
TWO–DOOR
X495

GROUND DISTRIBUTION

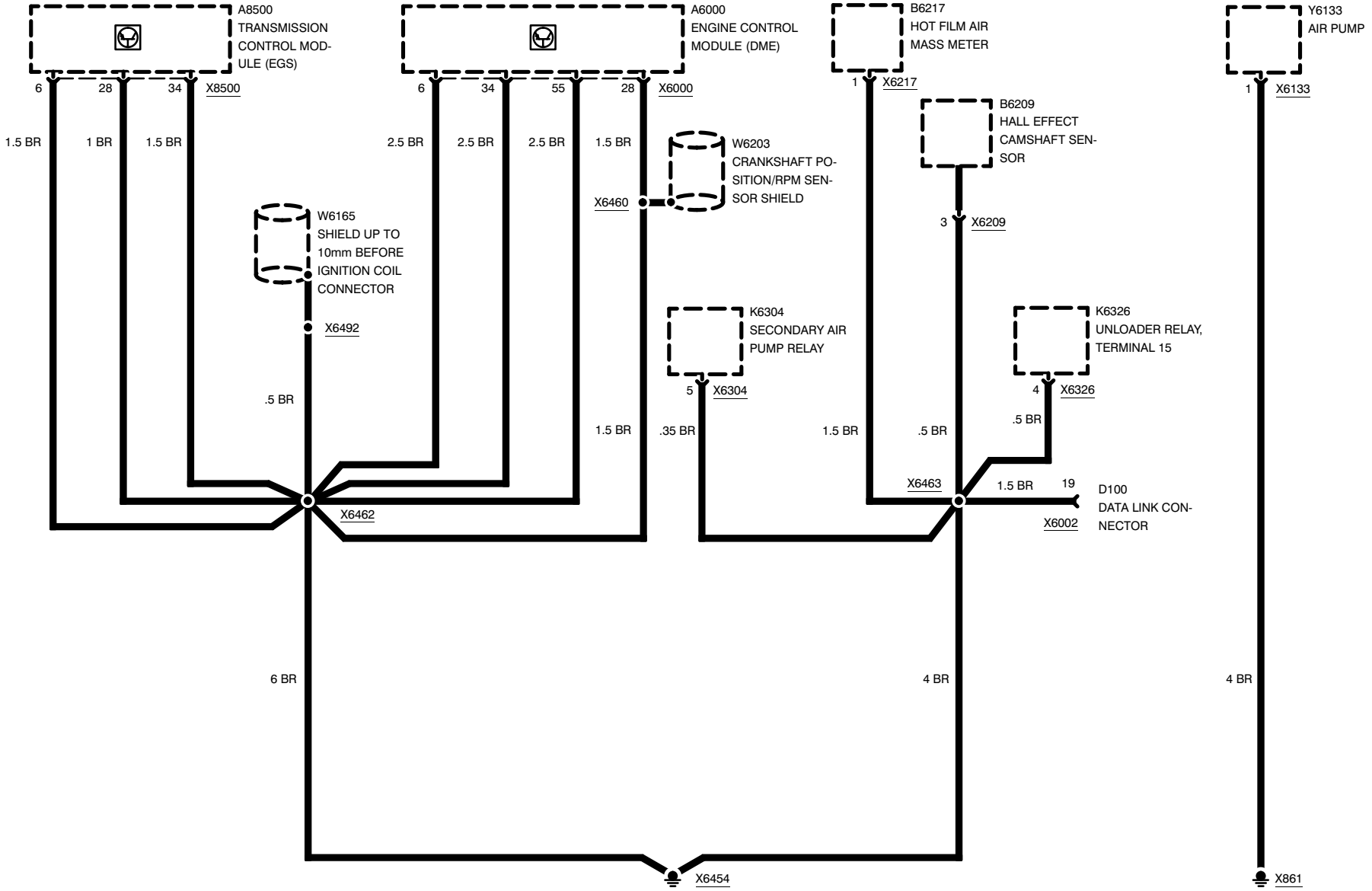
GROUNDS X1165, X1166, AND X1441



GROUND DISTRIBUTION

318is

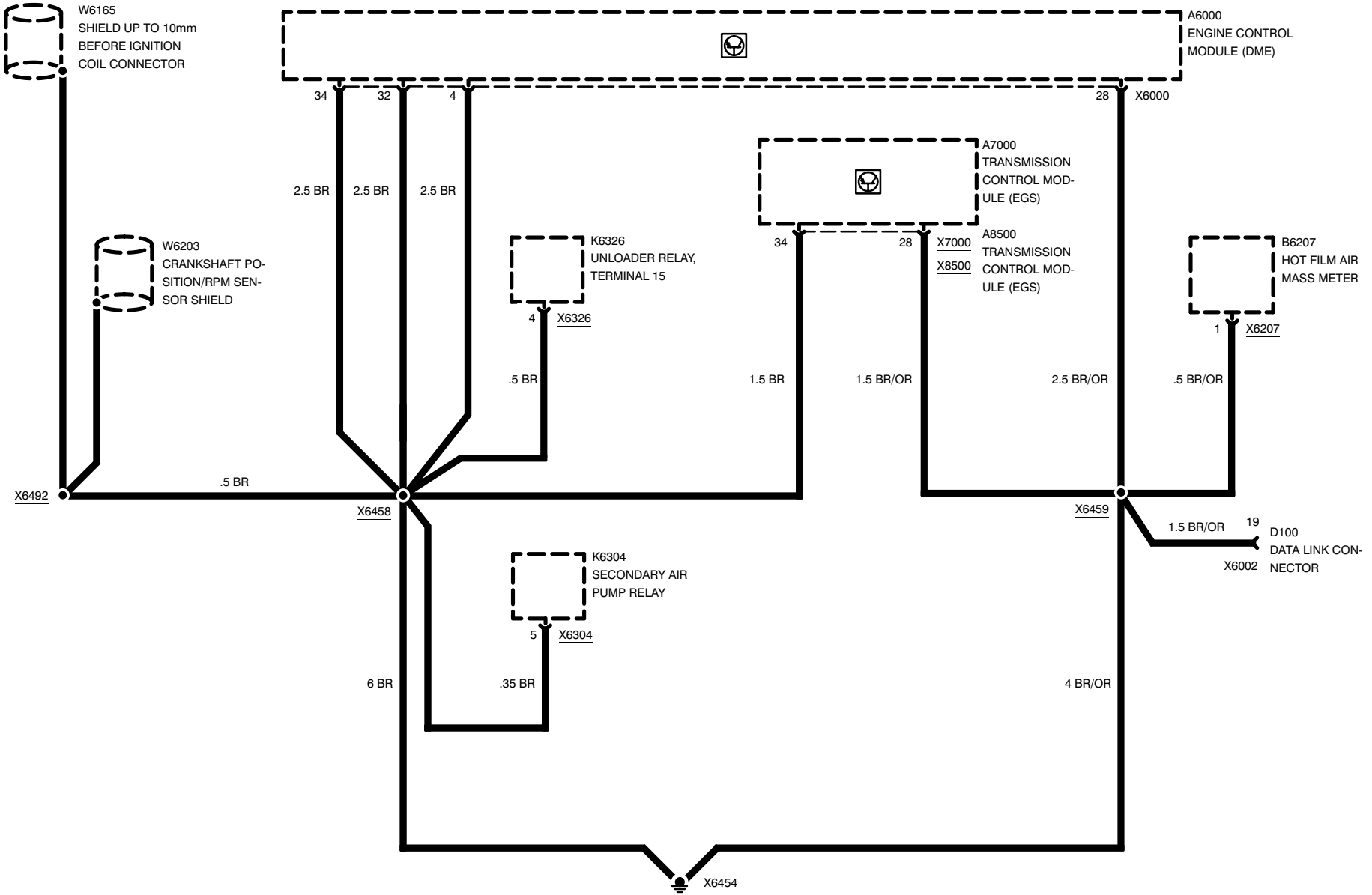
GROUNDS X6454 AND X861



GROUND DISTRIBUTION

328i, M3

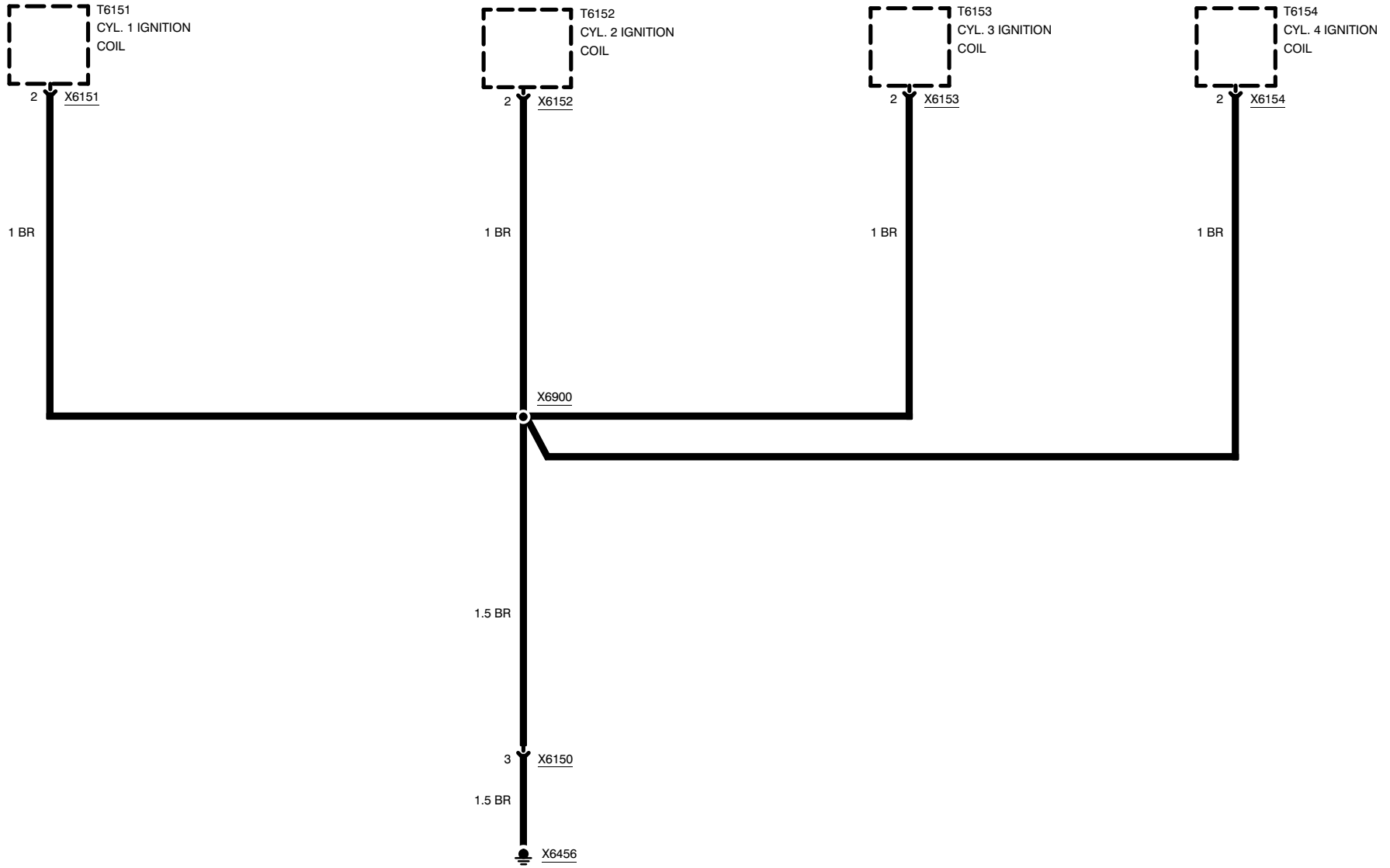
GROUND X6454



GROUND DISTRIBUTION

318is

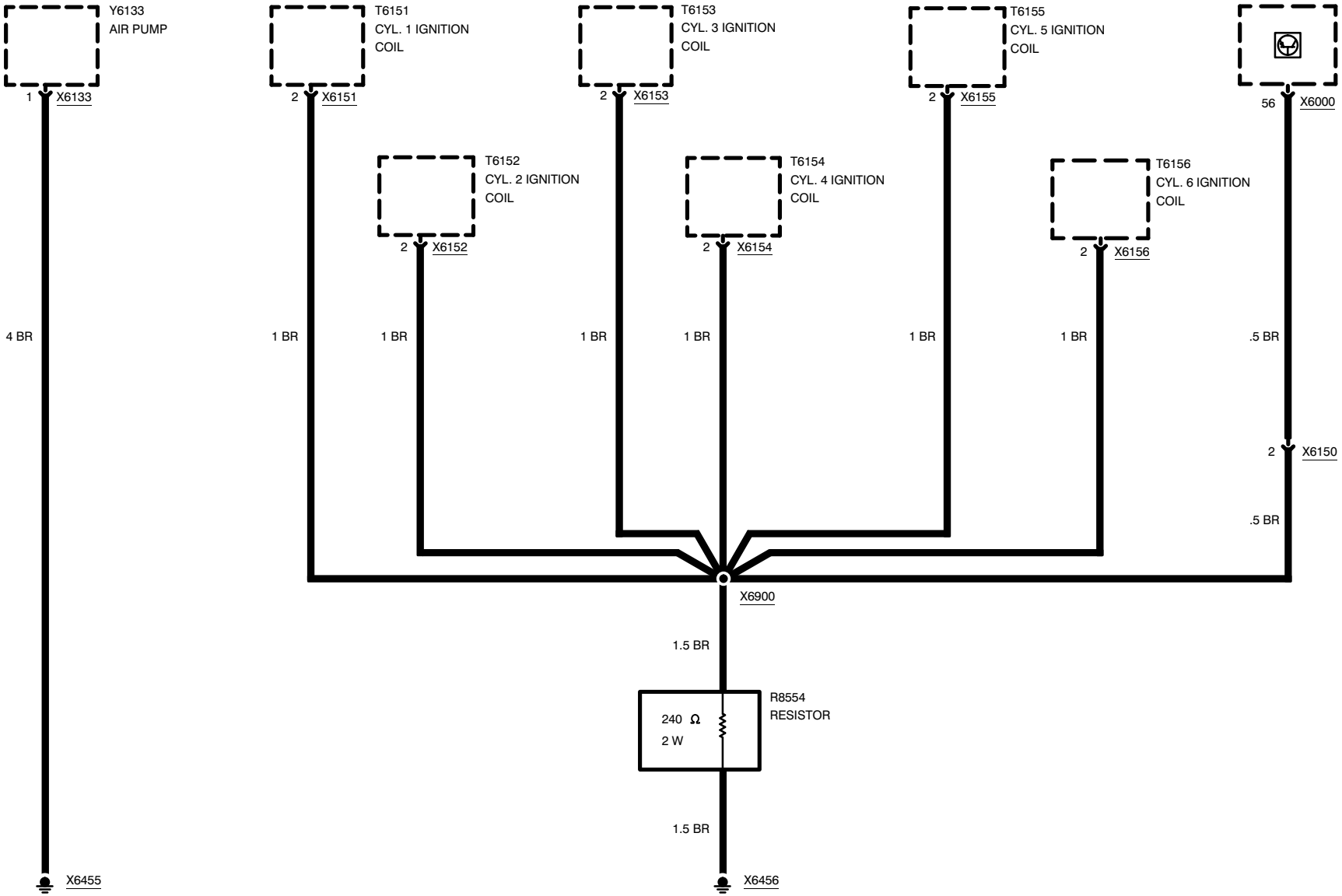
GROUND X6456



GROUND DISTRIBUTION

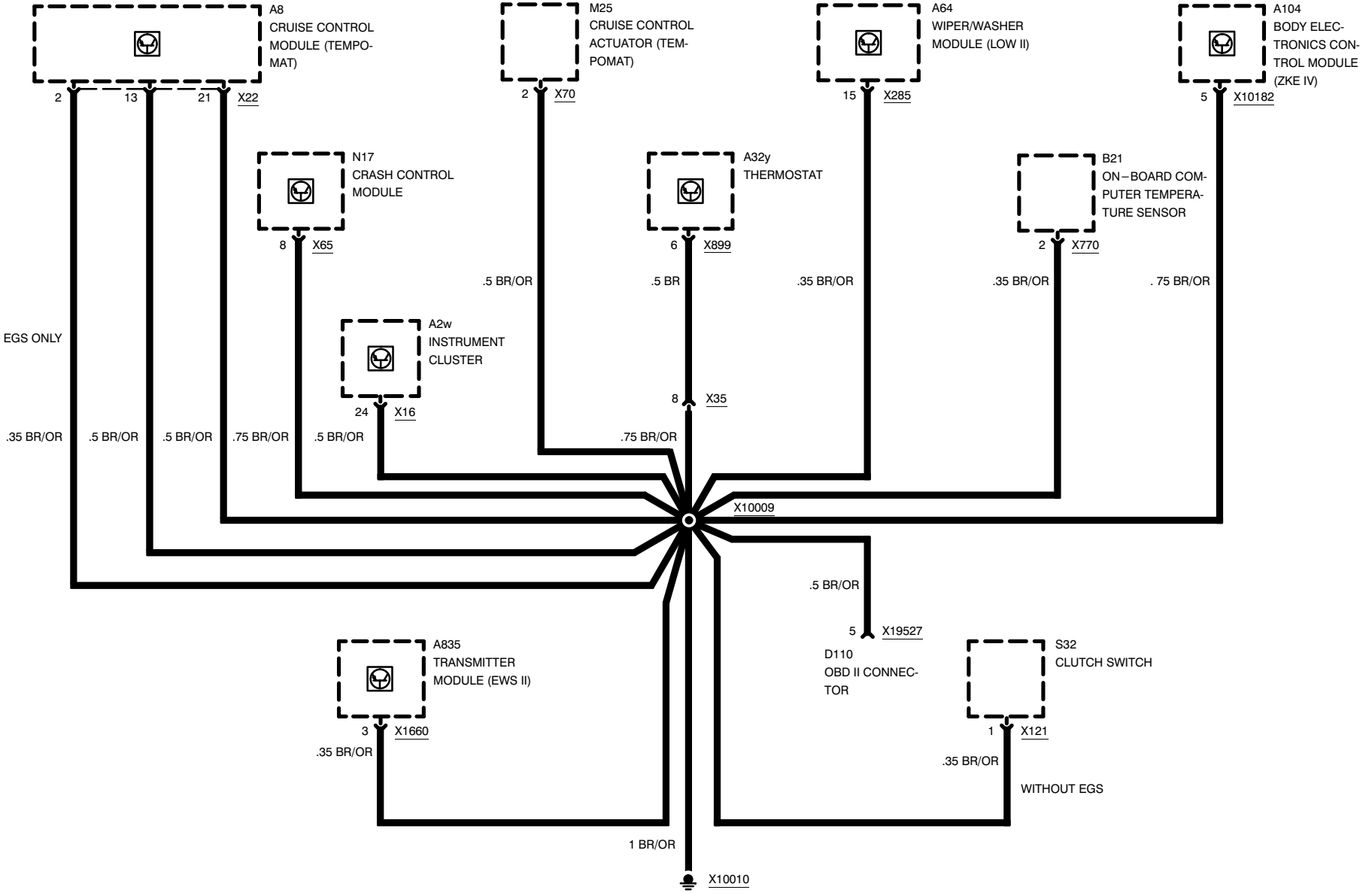
328i, M3

GROUNDS X6455 AND X6456



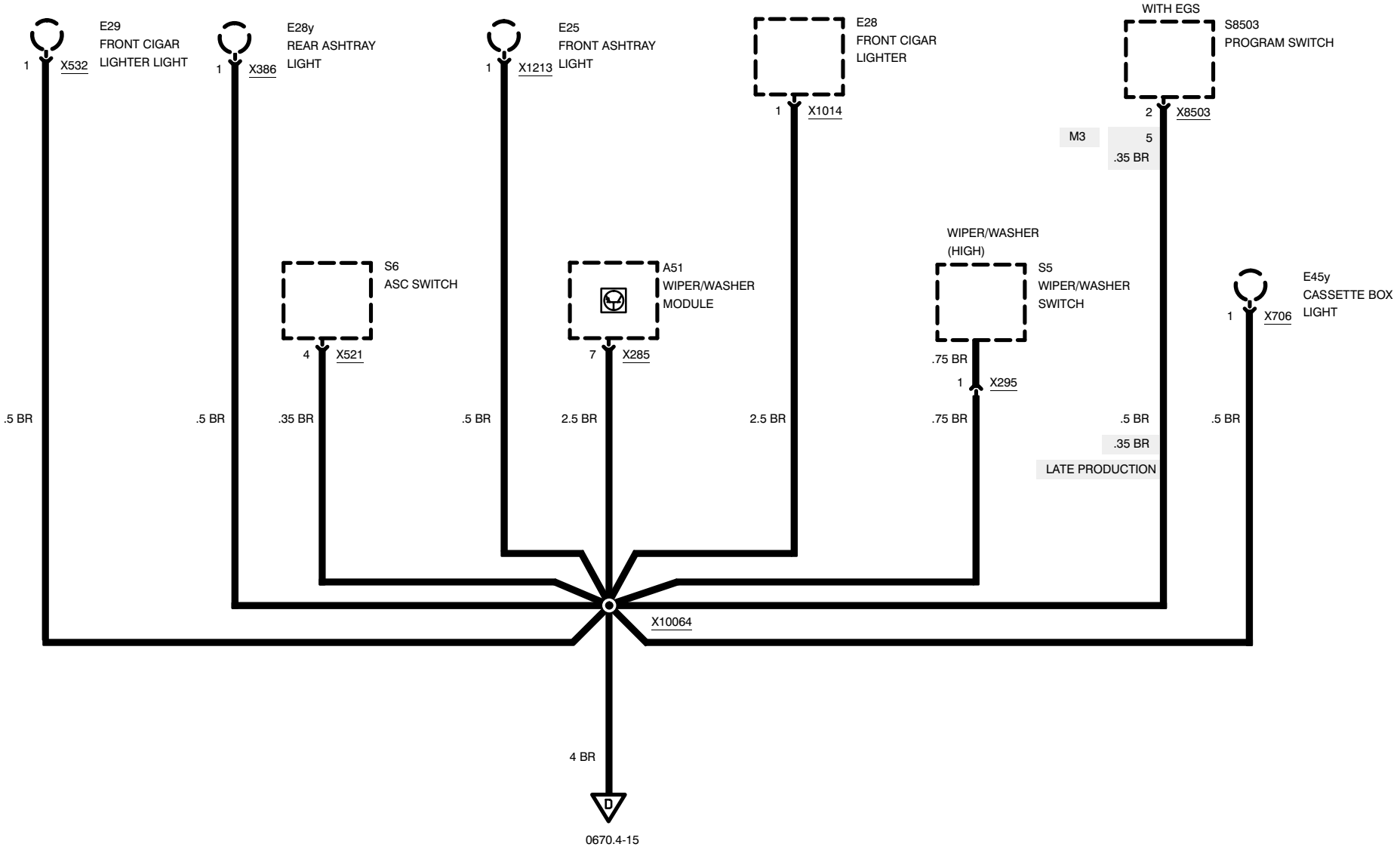
GROUND DISTRIBUTION

GROUND X10010



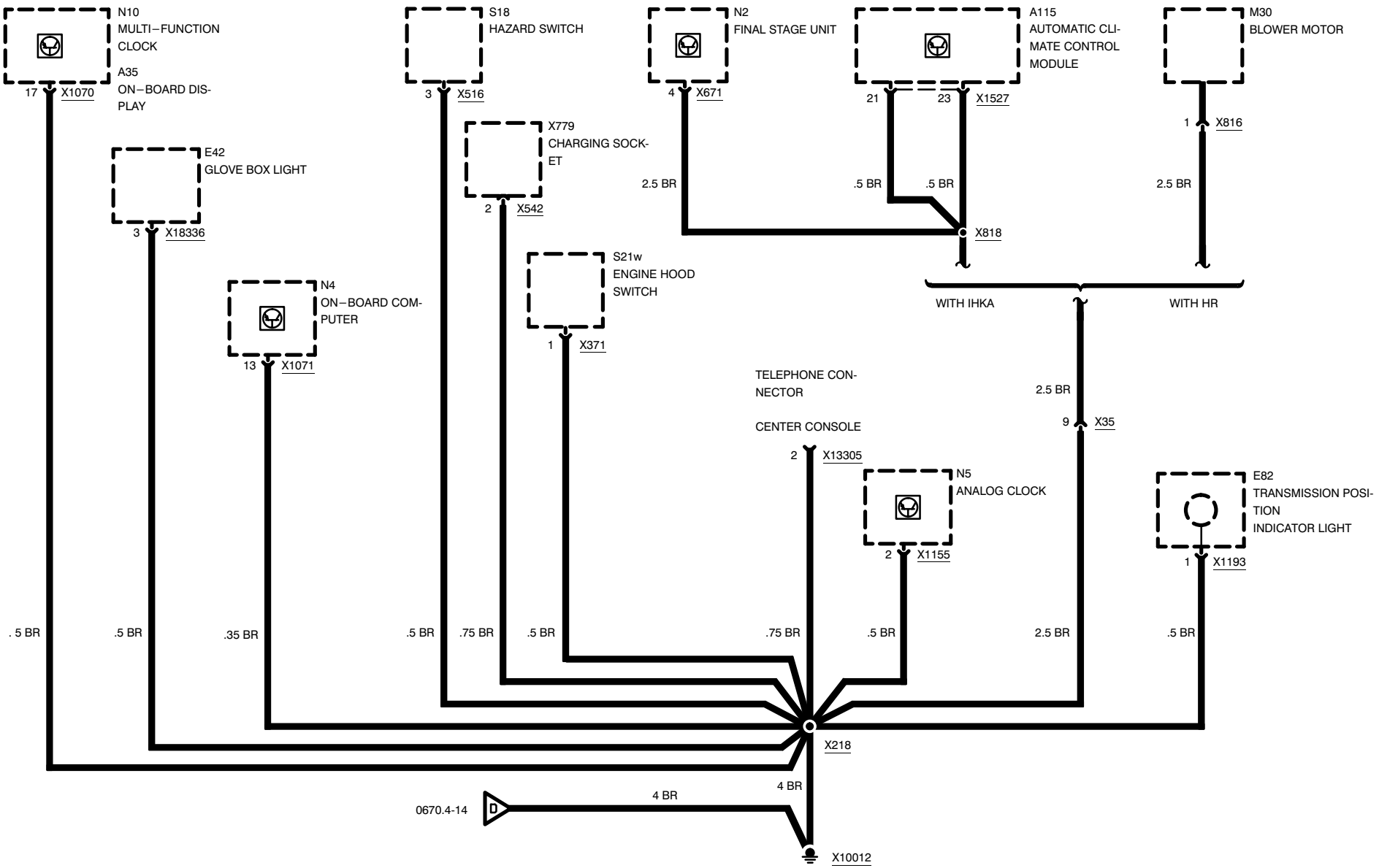
GROUND DISTRIBUTION

GROUND X10012



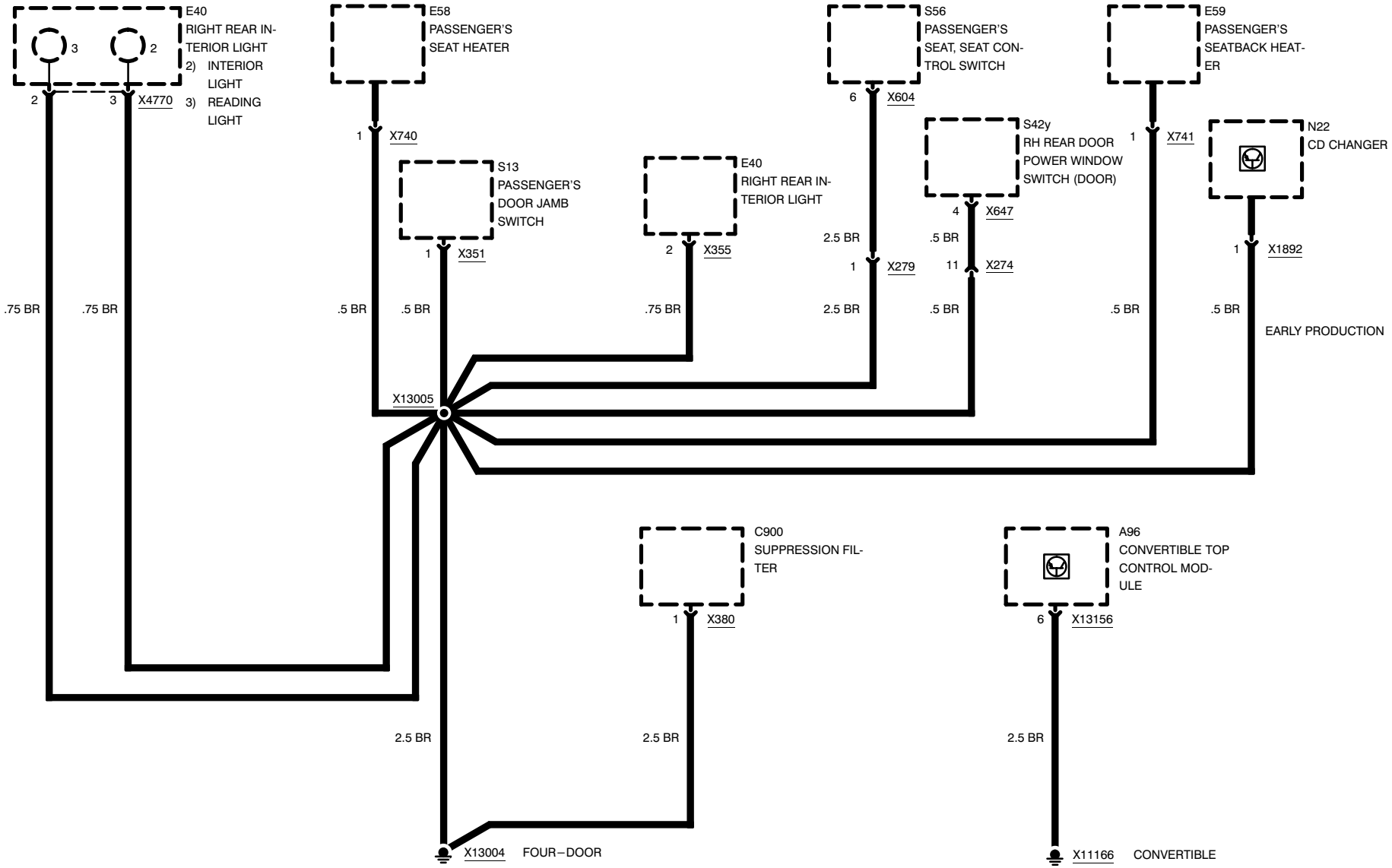
GROUND DISTRIBUTION

GROUND X10012



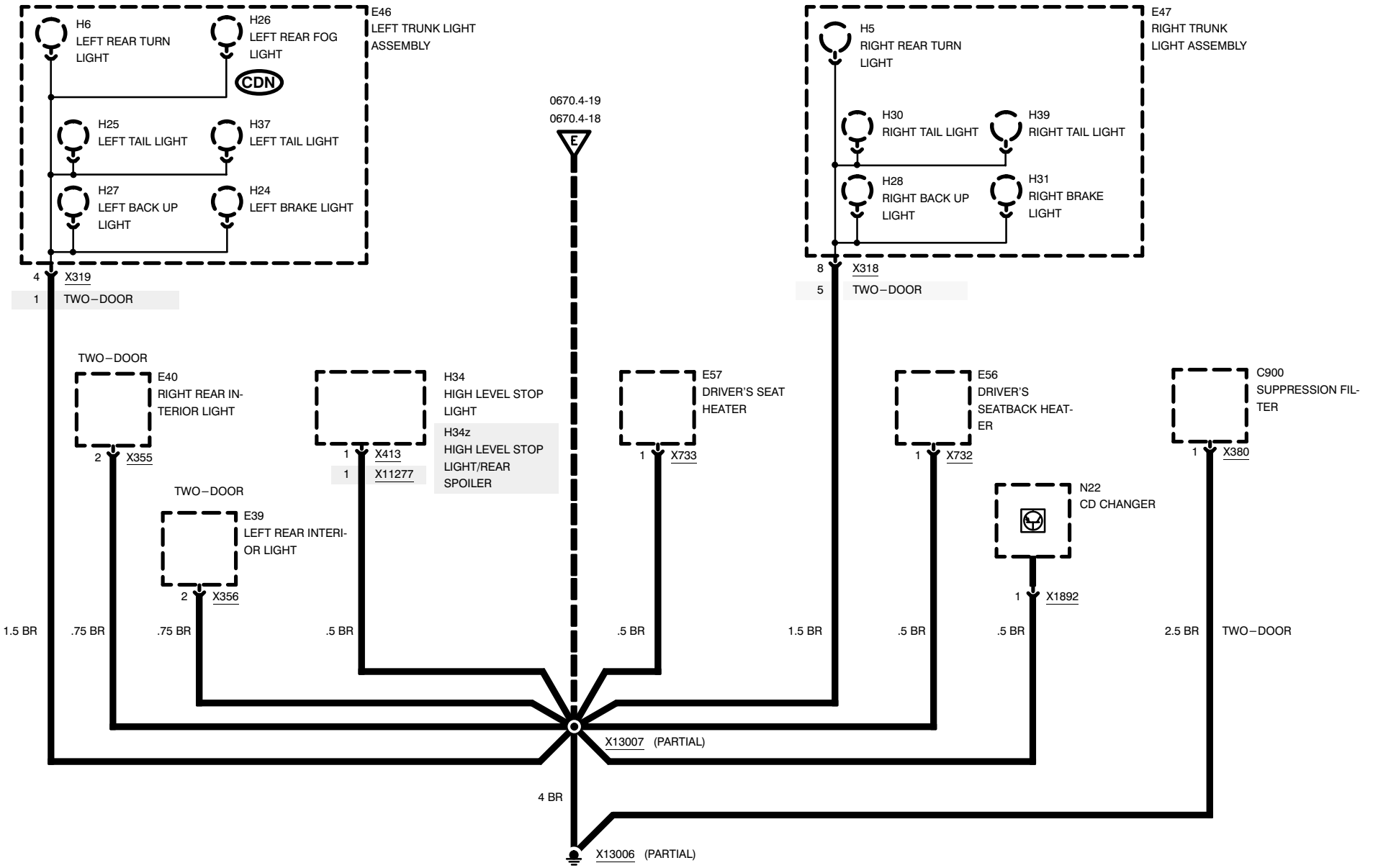
GROUND DISTRIBUTION

GROUNDS X11166 AND X13004



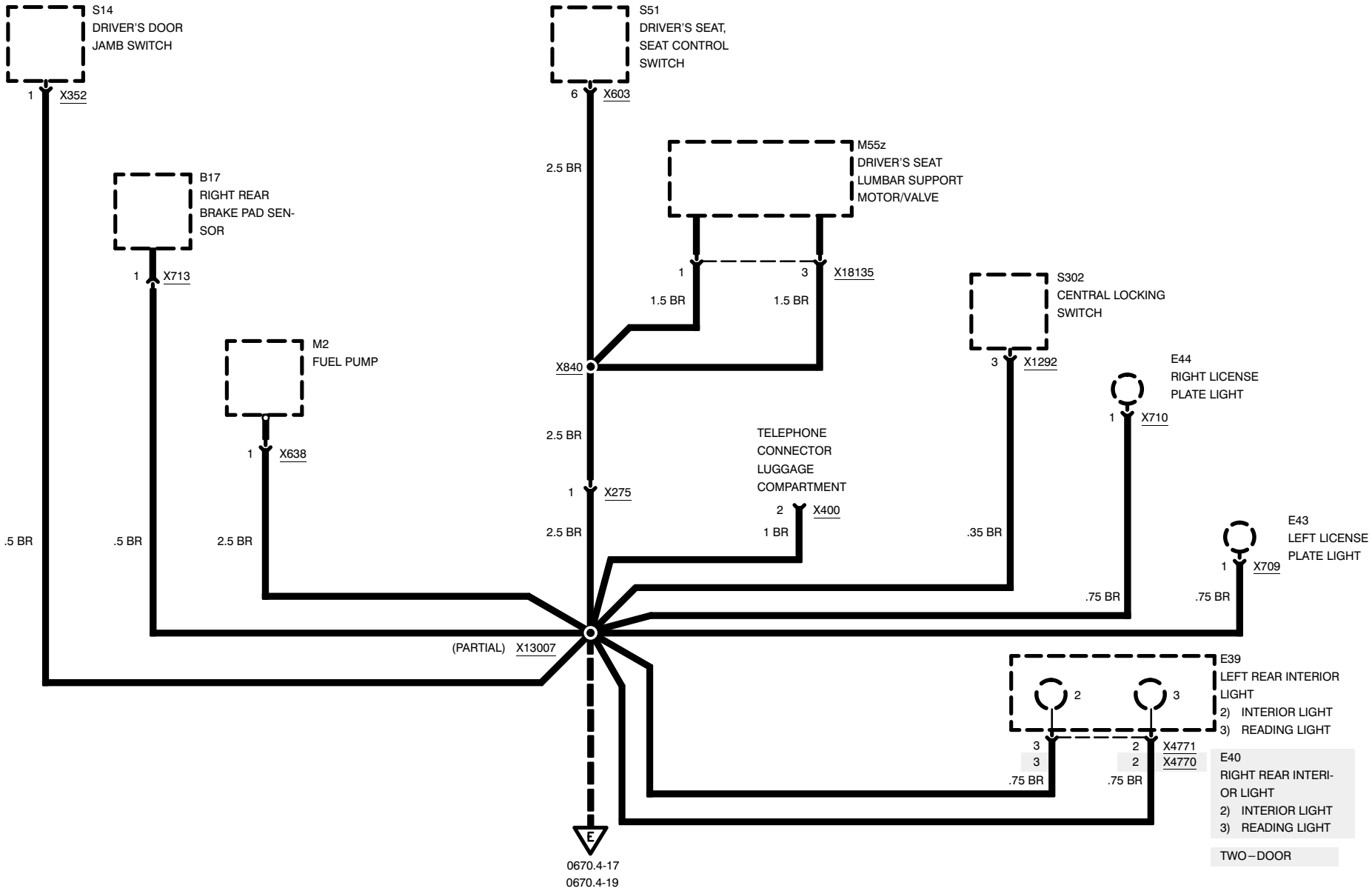
GROUND DISTRIBUTION

GROUND X13006

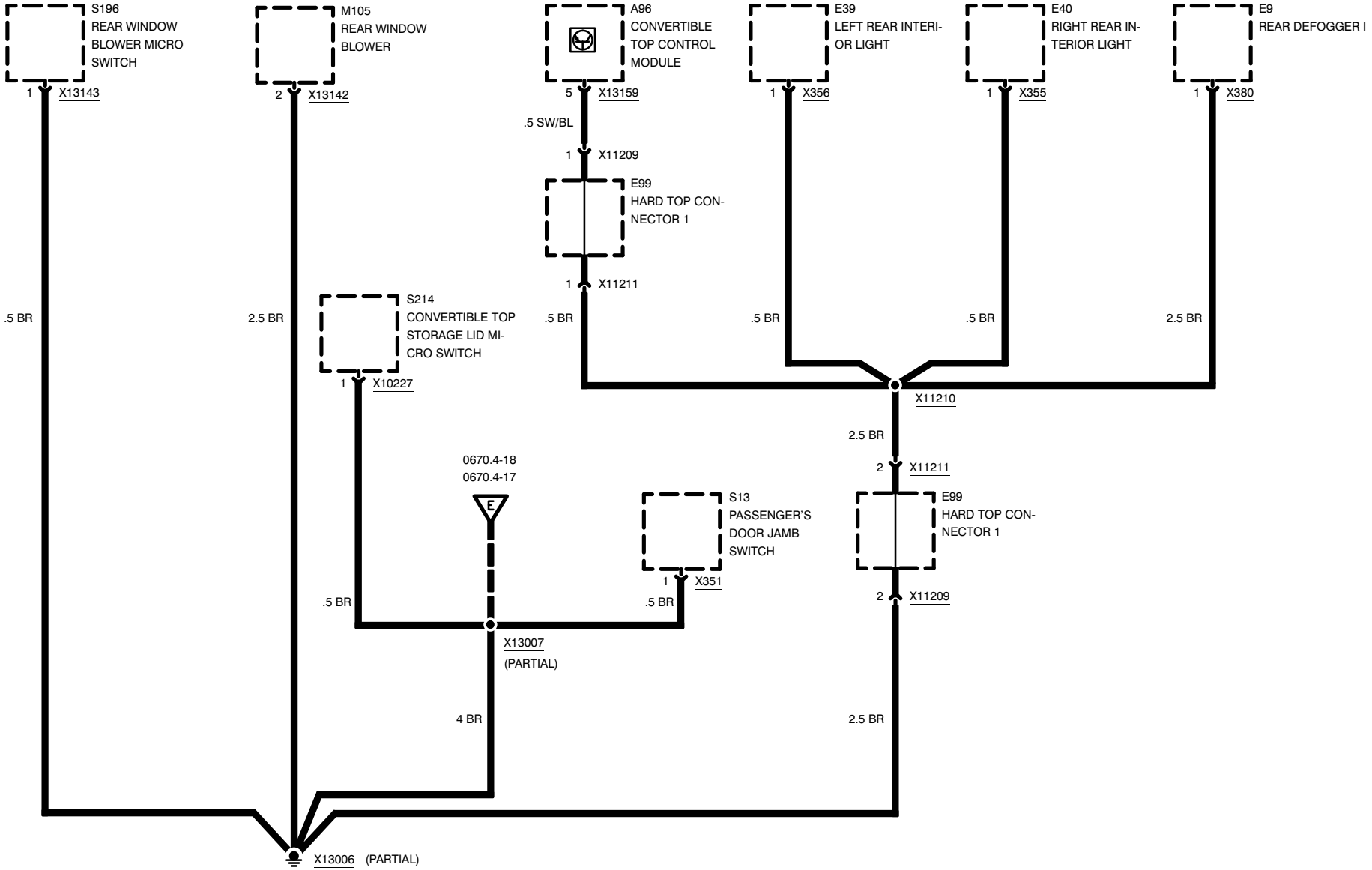


GROUND DISTRIBUTION

GROUND X13006

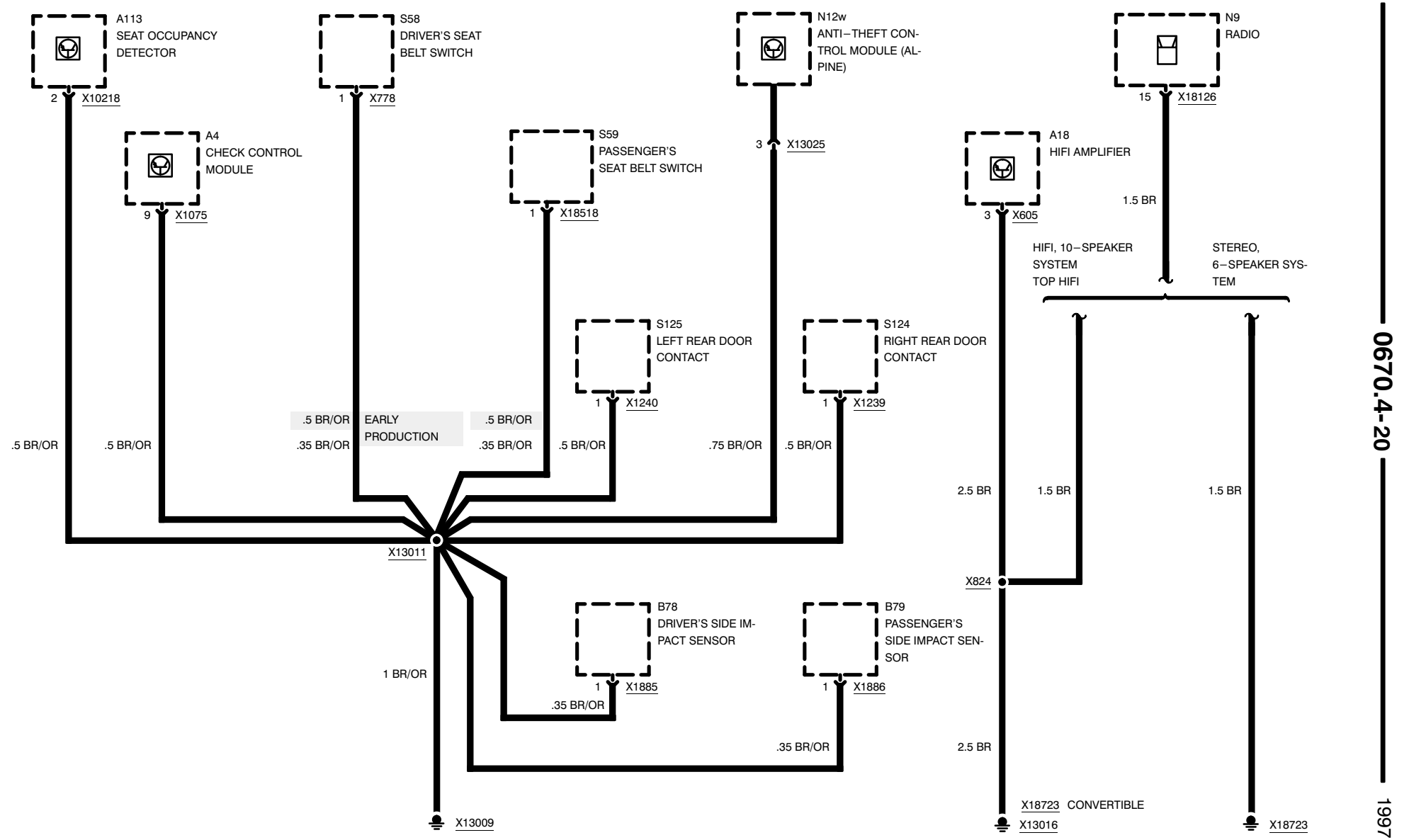


GROUND X13006



GROUND DISTRIBUTION

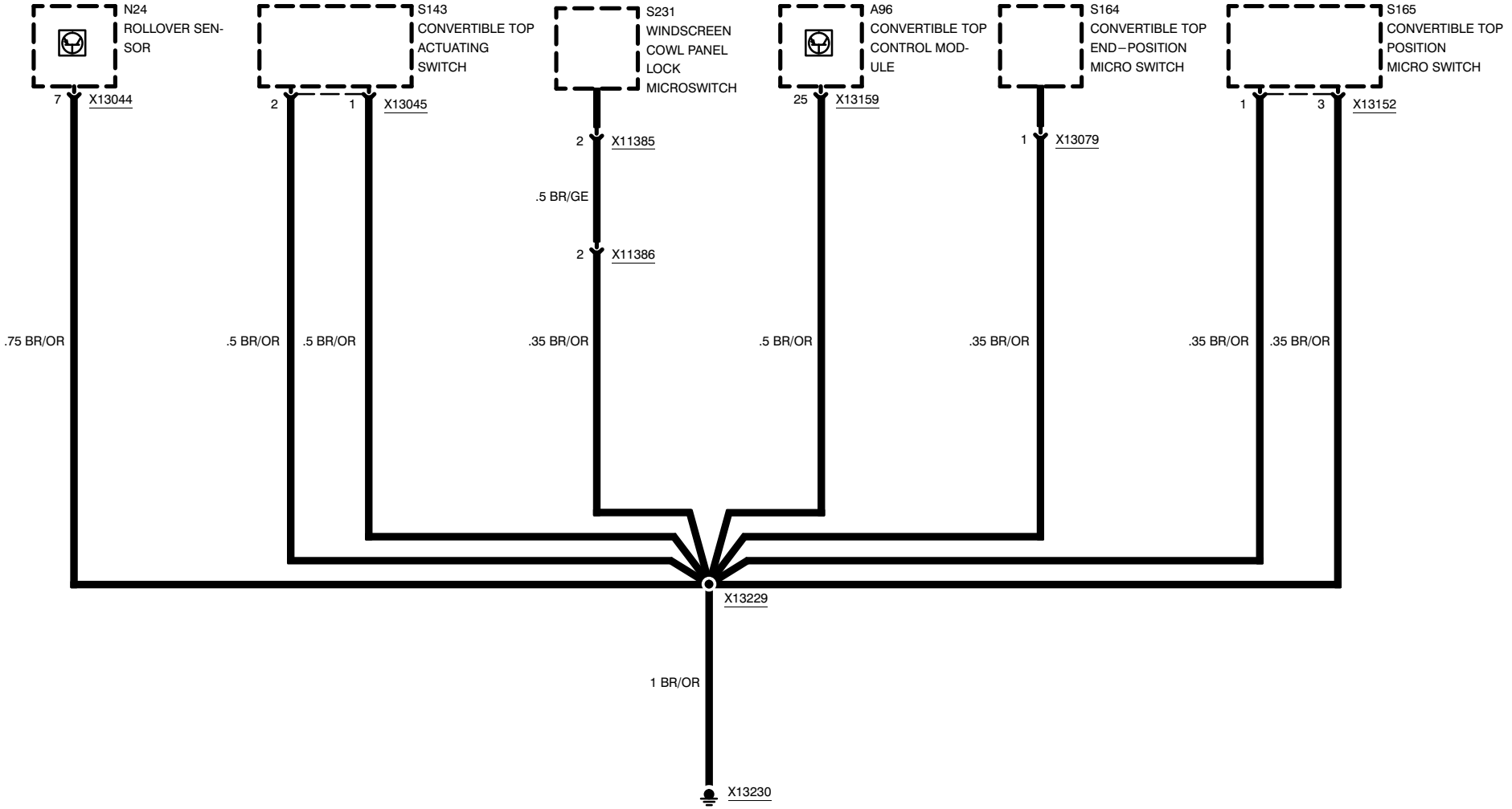
GROUNDS X13009, X13016, AND X18723



GROUND DISTRIBUTION

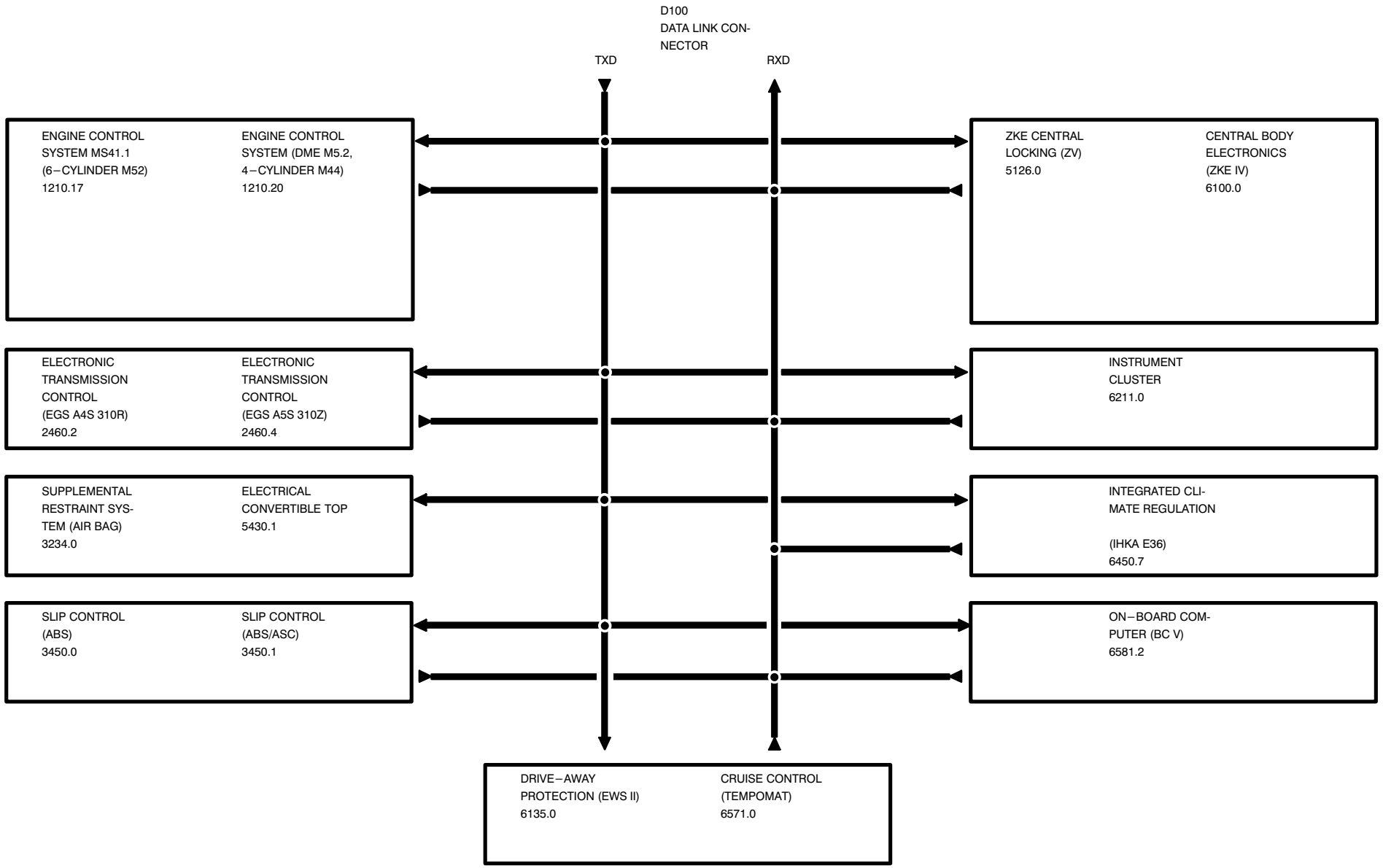
CONVERTIBLE

GROUND X13230



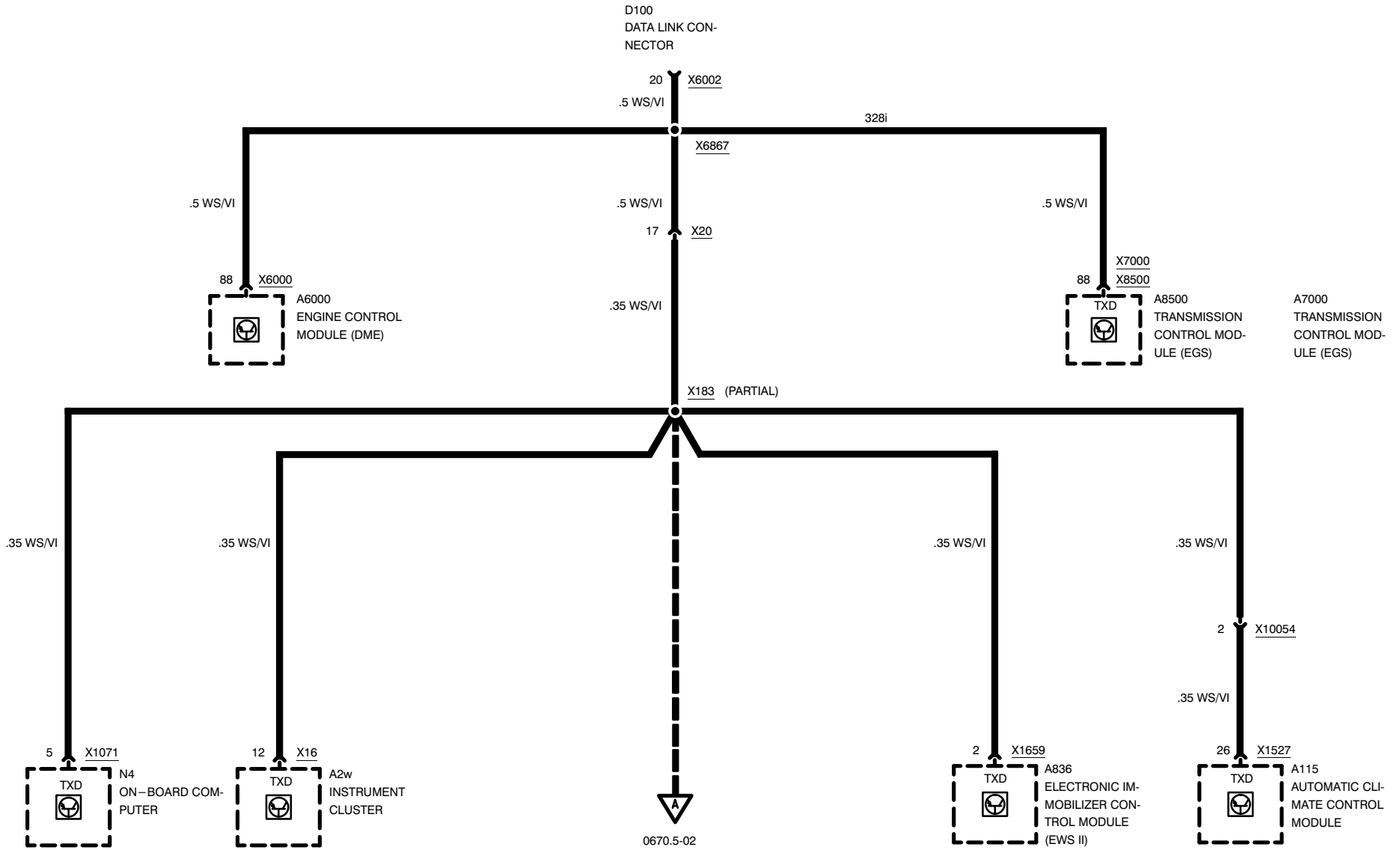
DATA LINK

BLOCK DIAGRAM



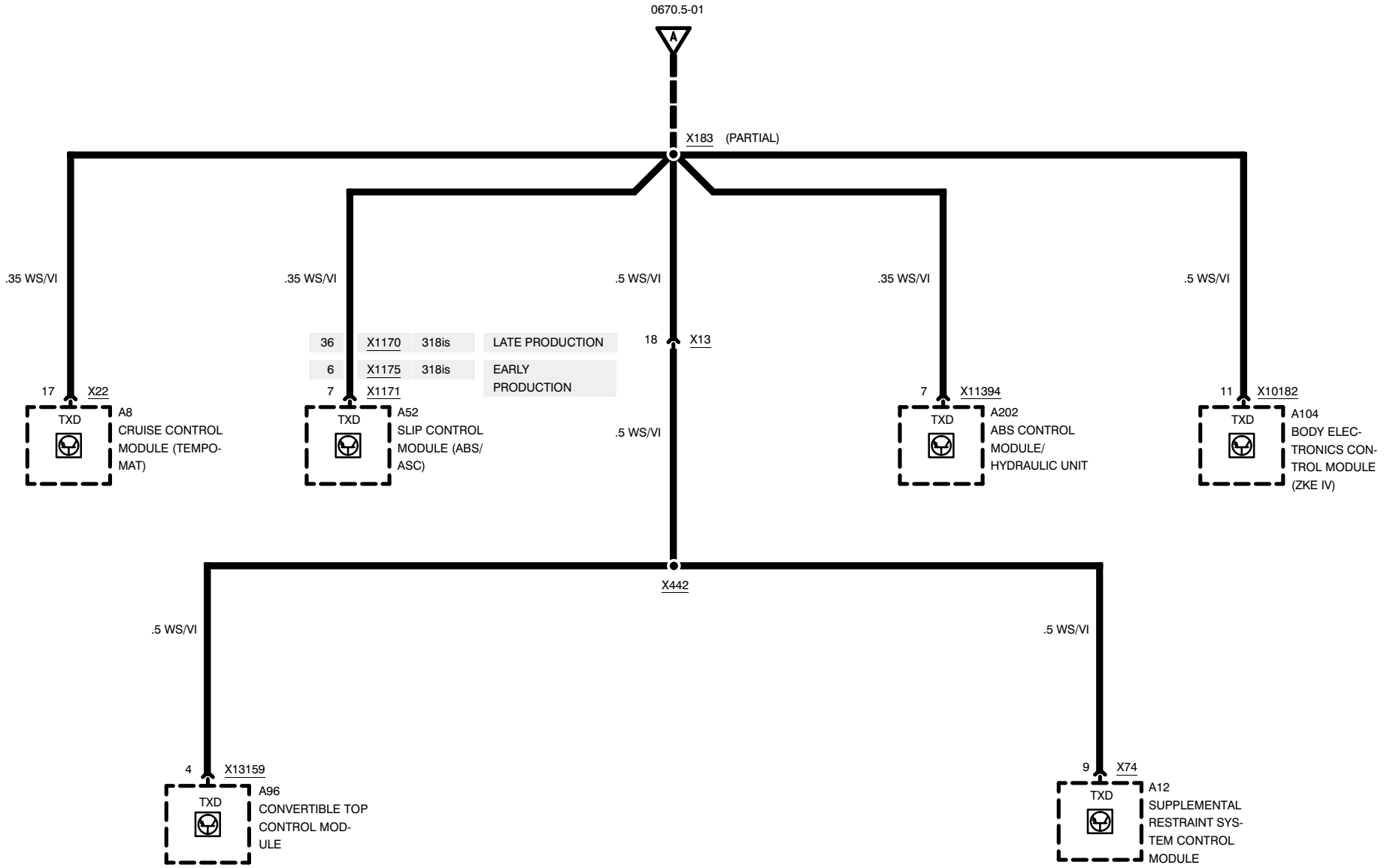
DATA LINK

TXD, PIN 20



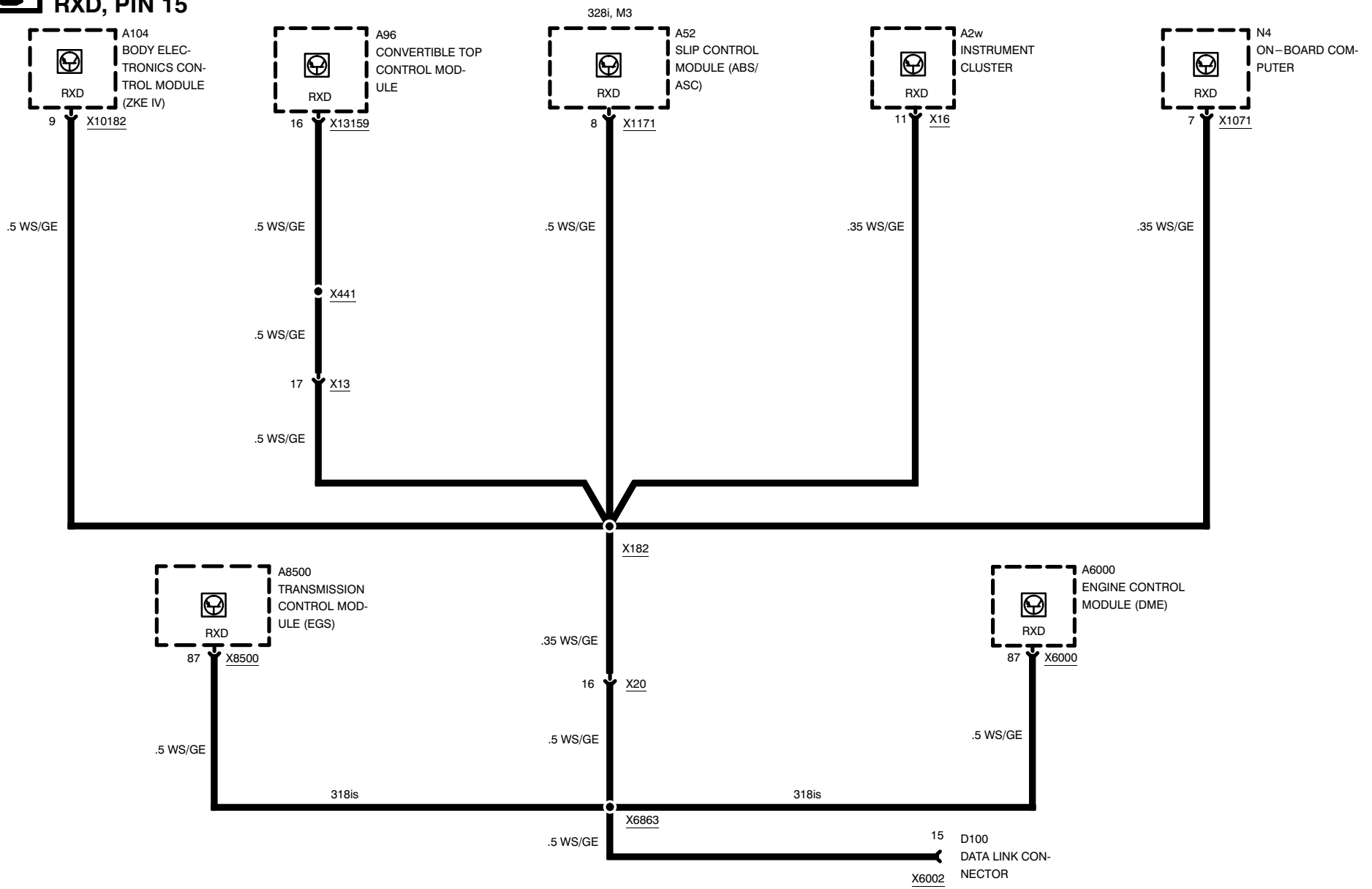
DATA LINK

TXD, PIN 20



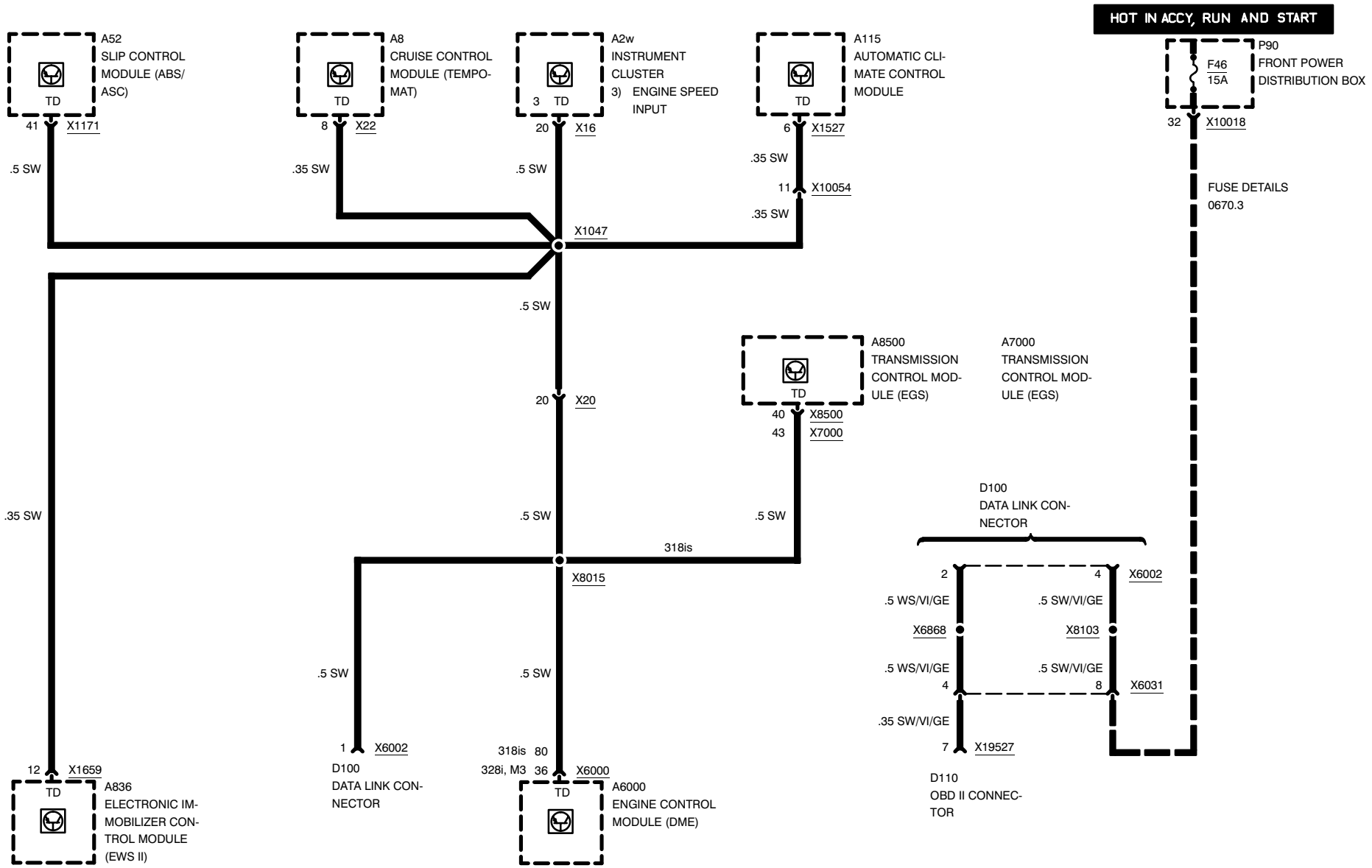
DATA LINK

RXD, PIN 15



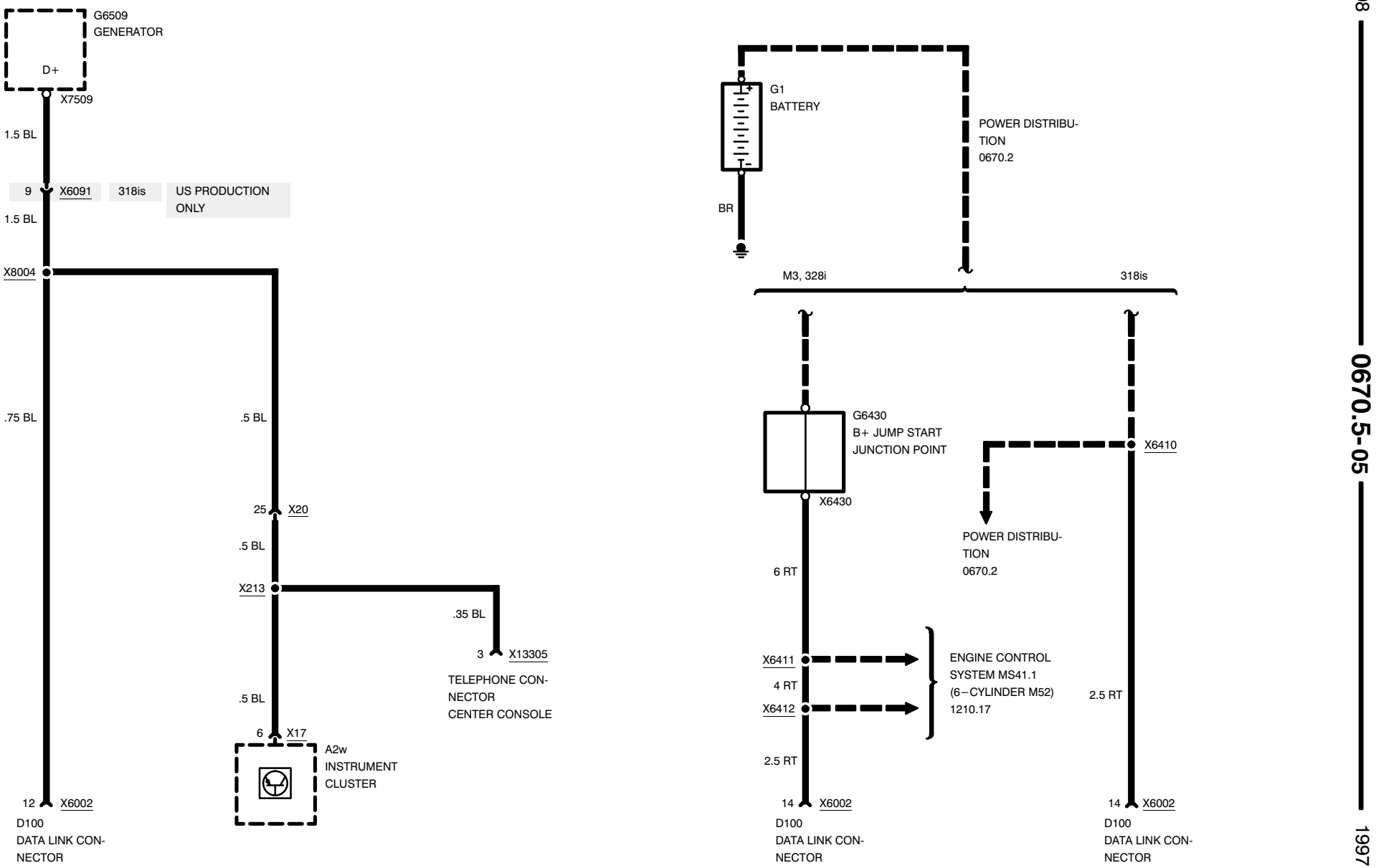
DATA LINK

DATA LINK CONNECTOR, PINS 1, 2, AND 4



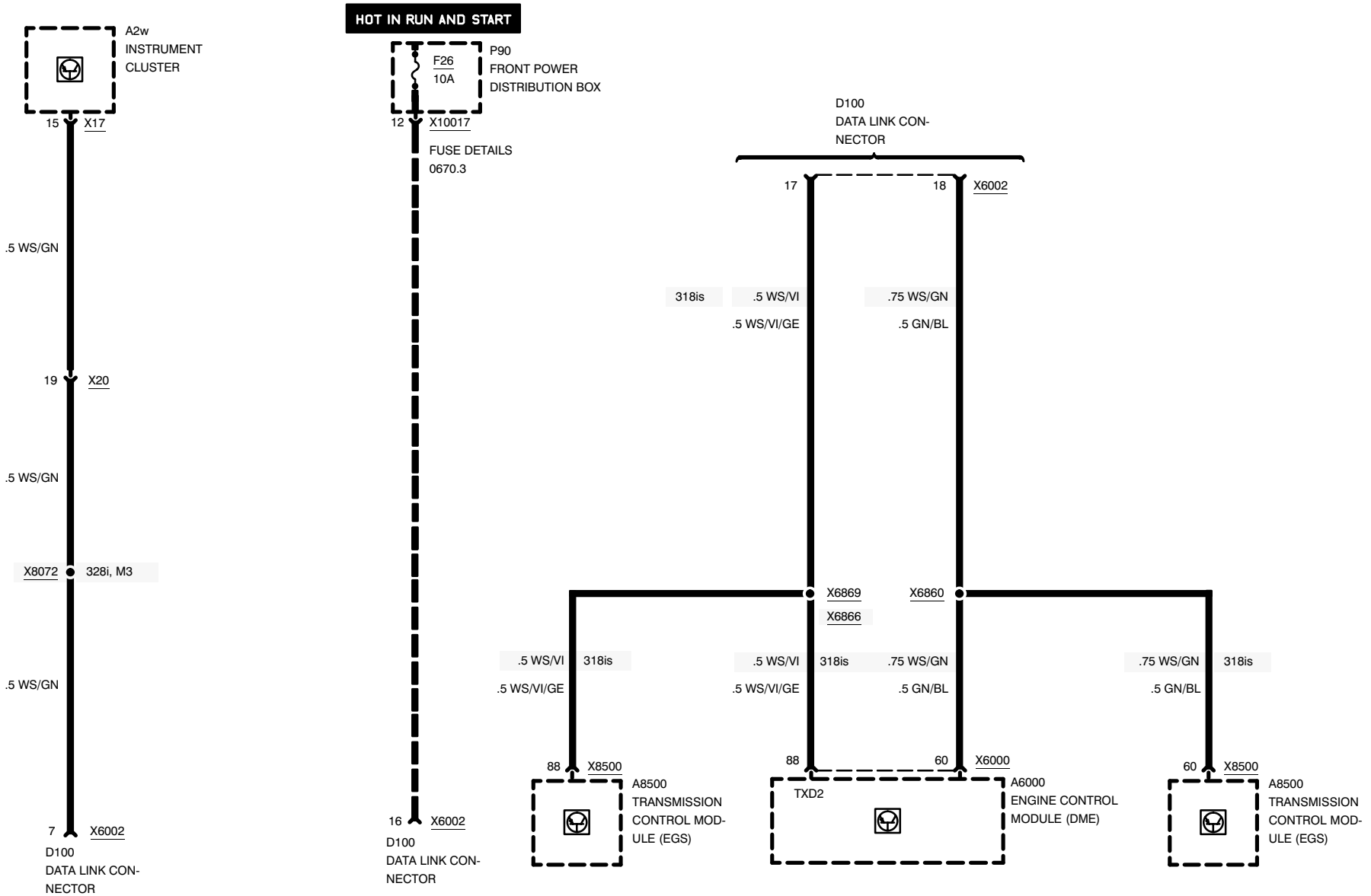
DATA LINK

DATA LINK CONNECTOR, PINS 12 AND 14



DATA LINK

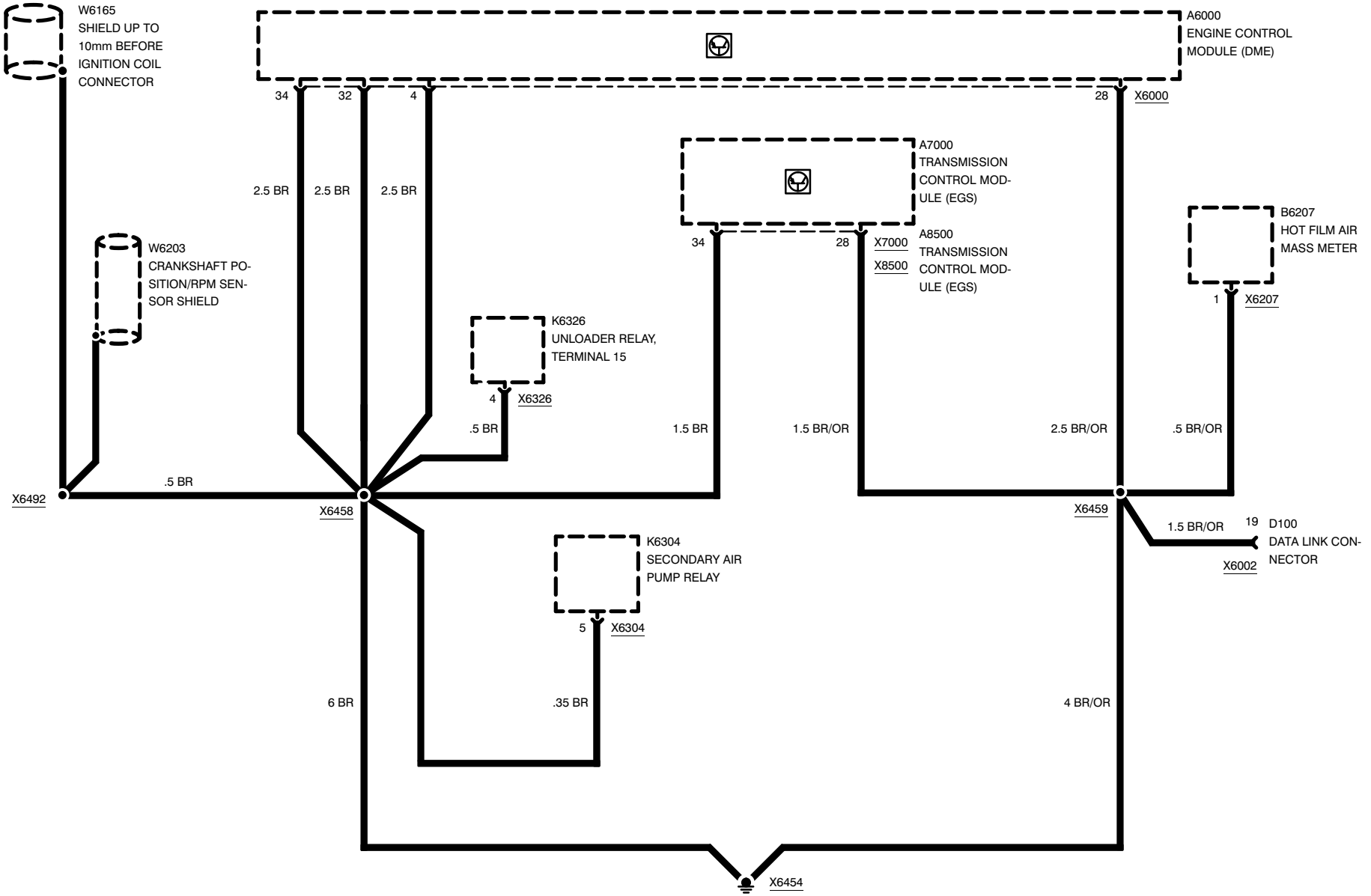
DATA LINK CONNECTOR, PINS 7, 16, 17, AND 18



DATA LINK

328i

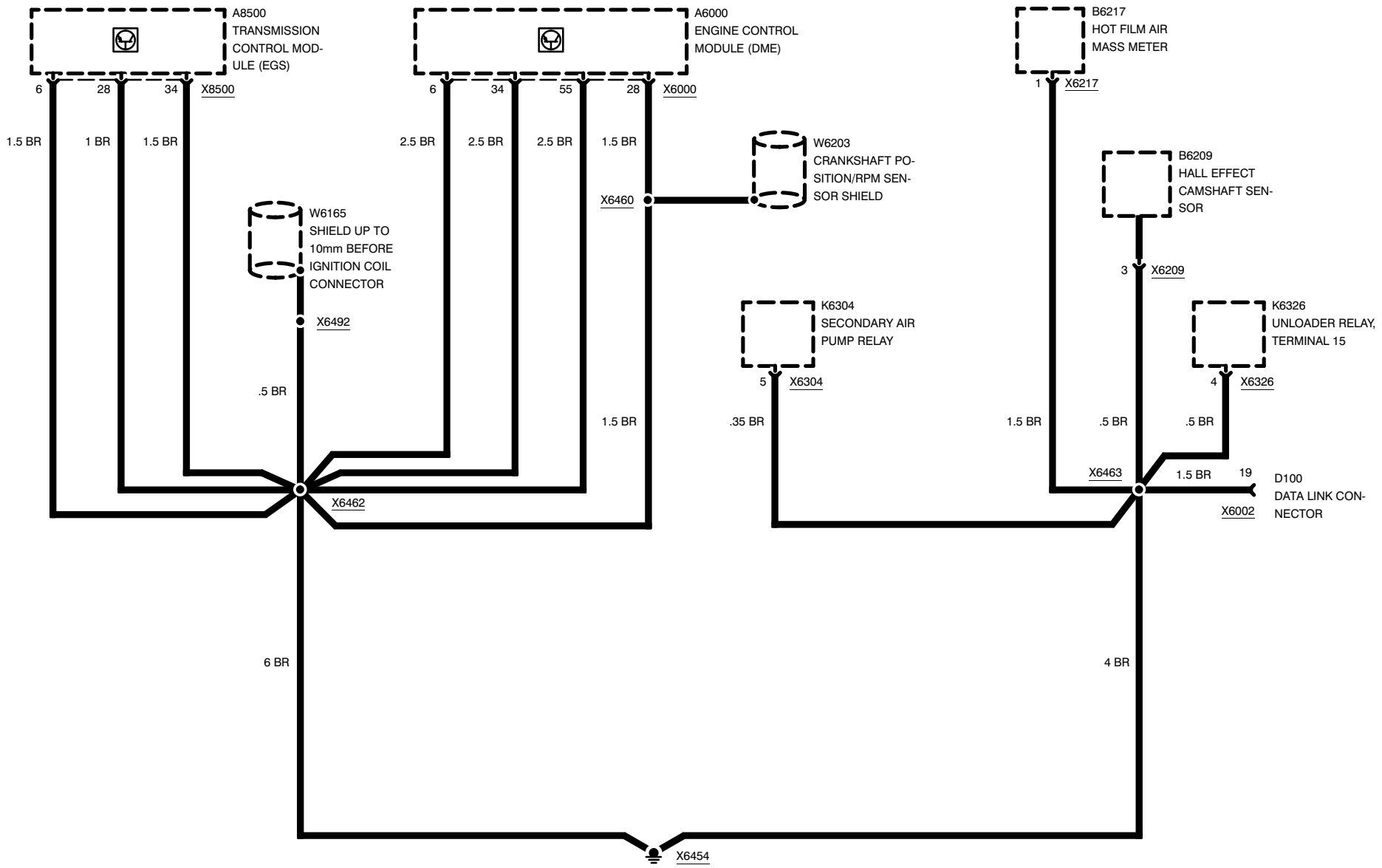
DATA LINK CONNECTOR, PIN 19



DATA LINK

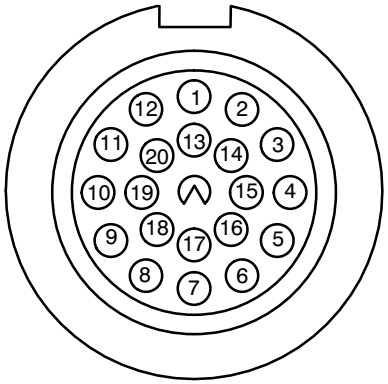
318is

DATA LINK CONNECTOR, PIN 19



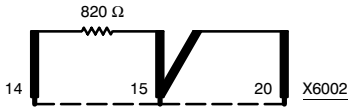
DATA LINK

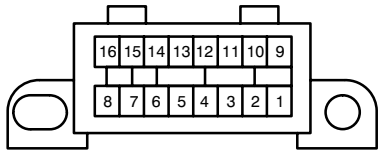
DATA LINK CONNECTOR (X6002)



BRIDGES IN CAP
OF D100 DATA
LINK CONNECTOR





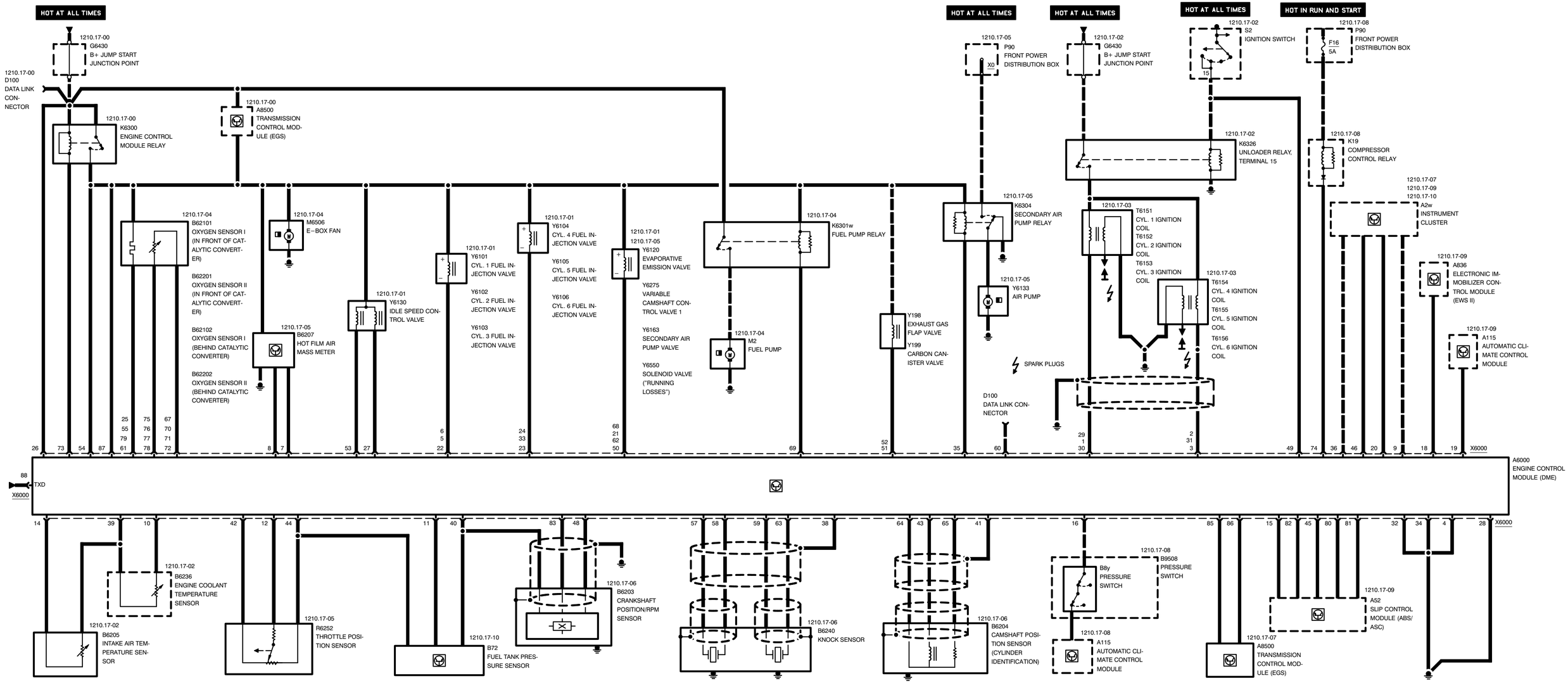


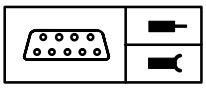
BRIDGES IN CAP
OF D110 OBD II
CONNECTOR



PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	ENGINE	SW
2	TXD2	DIAGNOSTIC DATA LINK	WS/VI/GE
3	–	NOT OCCUPIED	
4	R	VOLTAGE: HOT IN ACCY, RUN AND START	SW/VI/GE
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	NOT OCCUPIED	
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	TXD2	DIAGNOSTIC DATA LINK	WS/VI – WS/VI/GE
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	WS/GN – GN/BL
19	31	GROUND	BR – BR/OR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

03/98 1210.17 1997
03/98 1210.17 1997



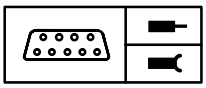


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
2	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
3	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
4	M	Ground	Ground point
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
7	M	Ground	Hot wire air mass meter
8	E	Hot wire air mass meter	Hot wire air mass meter
9	E	TI-measurement signal (fuel consumption)	Instrument cluster
10	E	Engine coolant temperature	Engine coolant temperature sensor
11	E	Fuel tank pressure	Fuel tank pressure sensor
12	E	Throttle position signal	Throttle position sensor
13		Not used	
14	E	Intake air temperature	Intake air temperature sensor
15	E	Speed signal right rear	ABS/ASC control module
16	E	Activate A/C	Pressure switch
17		Not used	
18	E	Drive away protection signal (code)	Electronic immobilizer control module (EWS II)
19	E	A/C-ON-signal	Air conditioning operating unit
20	A	“Check engine” indicator control	Instrument cluster
21	A	Camshaft control	Variable camshaft control valve
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
24	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
25	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
26	E	Battery voltage	B+ jump start junction point
27	A	Activate valve	Idle speed control valve
28	M	Ground	Ground point
29	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil

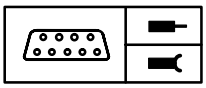
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
30	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
31	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
32	M	Ground	Ground point
33	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
34	M	Ground	Ground point
35	A	Activate relay	Secondary air pump relay
36	A	Crankshaft RPM speed signal TD	Instrument cluster
37		Not used	
38	M	Ground	Shield knock sensor
39	M	Ground	Temperature sensors
40	M	Ground	Crankshaft position/RPM sensor Fuel tank pressure sensor
41	M	Ground	Shield camshaft position sensor
42	M	Ground	Throttle position sensor
43	E	Camshaft position	Camshaft position sensor
44	A	Voltage supply	Throttle position sensor Fuel tank pressure sensor
45	A	Throttle position signal	ABS/ASC control module
46	E	TI-measurement signal (fuel consumption)	Instrument cluster
47		Not used	
48	A	Voltage supply	Crankshaft position/RPM sensor
49	E	Terminal 15	Ignition switch
50	A	”Running losses“	Solenoid valve
51	A	Activate valve	Carbon canister valve
52	A	Signal exhaust flap	Exhaust gas flap valve
53	A	Activate valve	Idle speed controle valve
54	E	Battery voltage, terminal 87	Engine control module relay
55	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
56	M	Ground	Ground point
57	E	Cyl. 1-3 knock sensor	Knock sensor
58	E	Cyl. 1-3 knock sensor	Knock sensor
59	E	Cyl. 4-6 knock sensor	Knock sensor

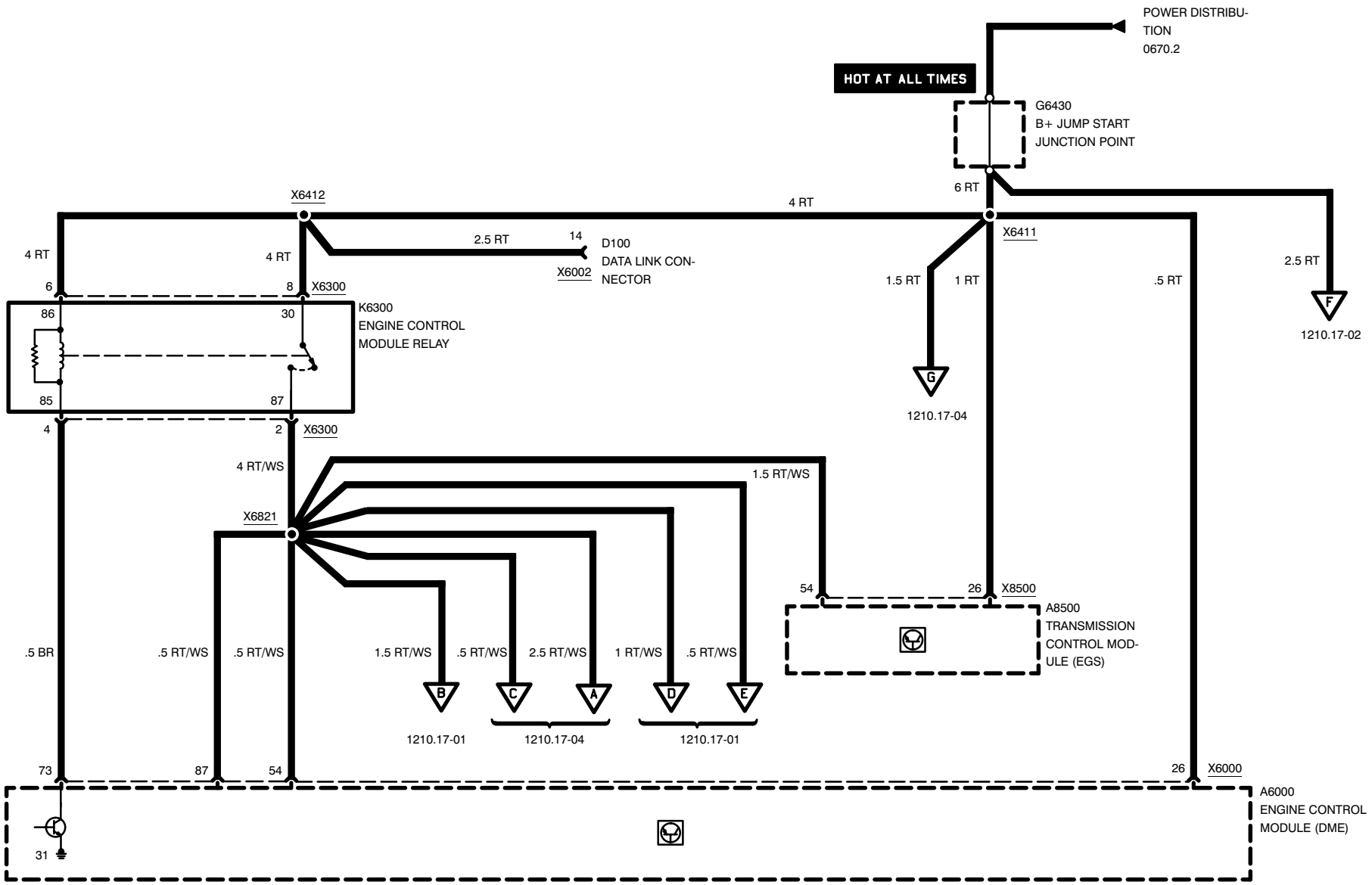
E = Input, A = Output, M = Ground

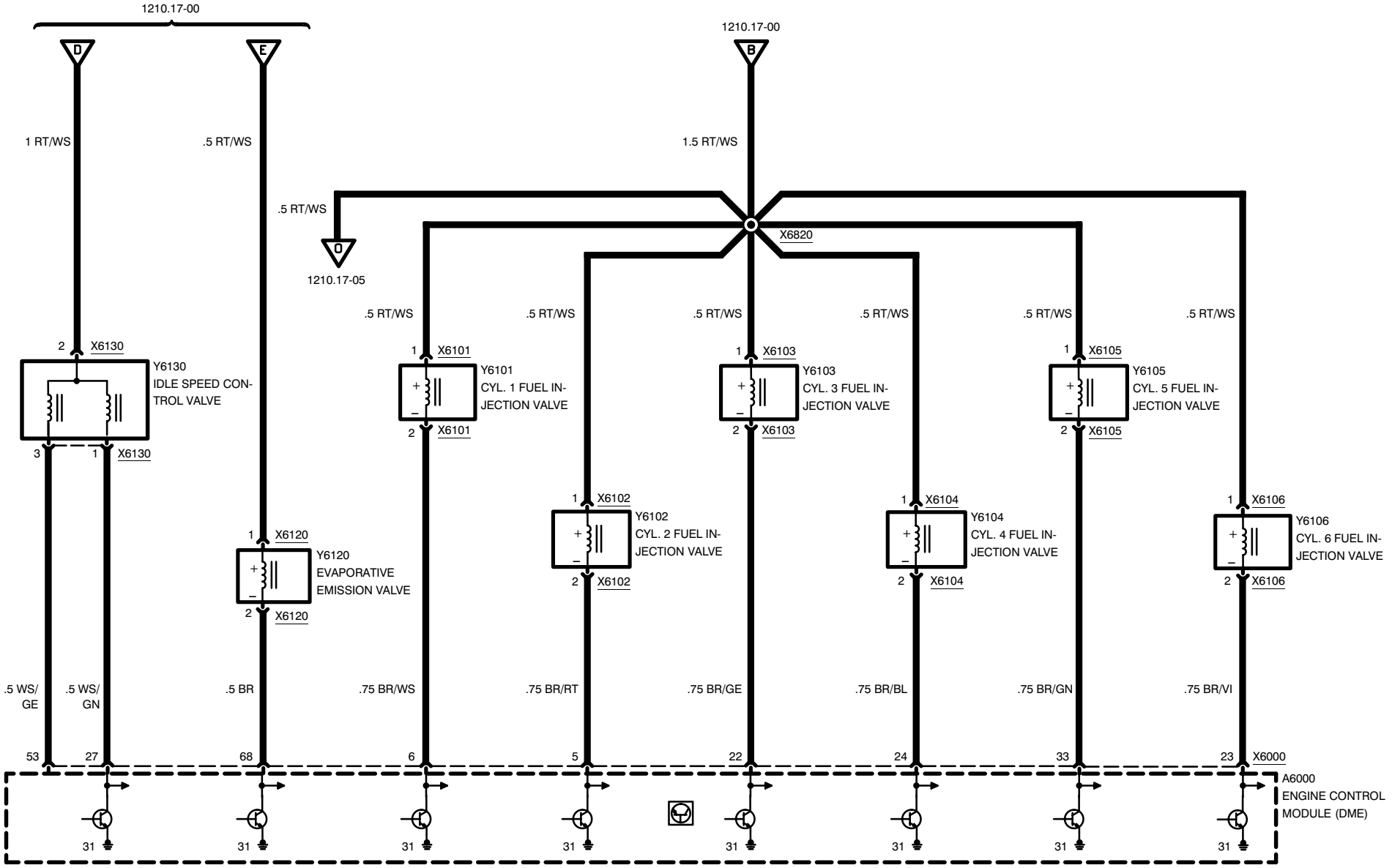


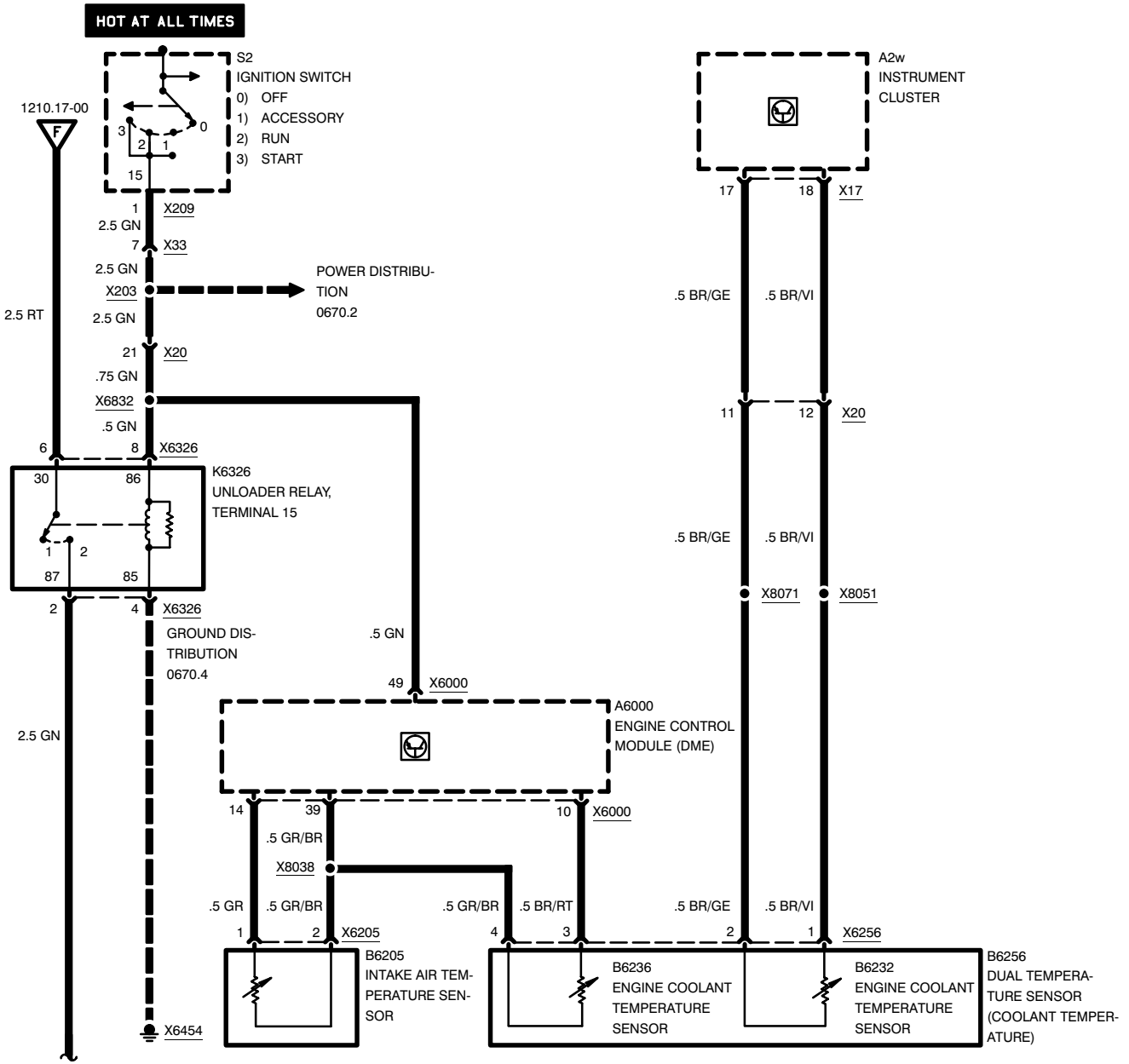
Pin Assignments

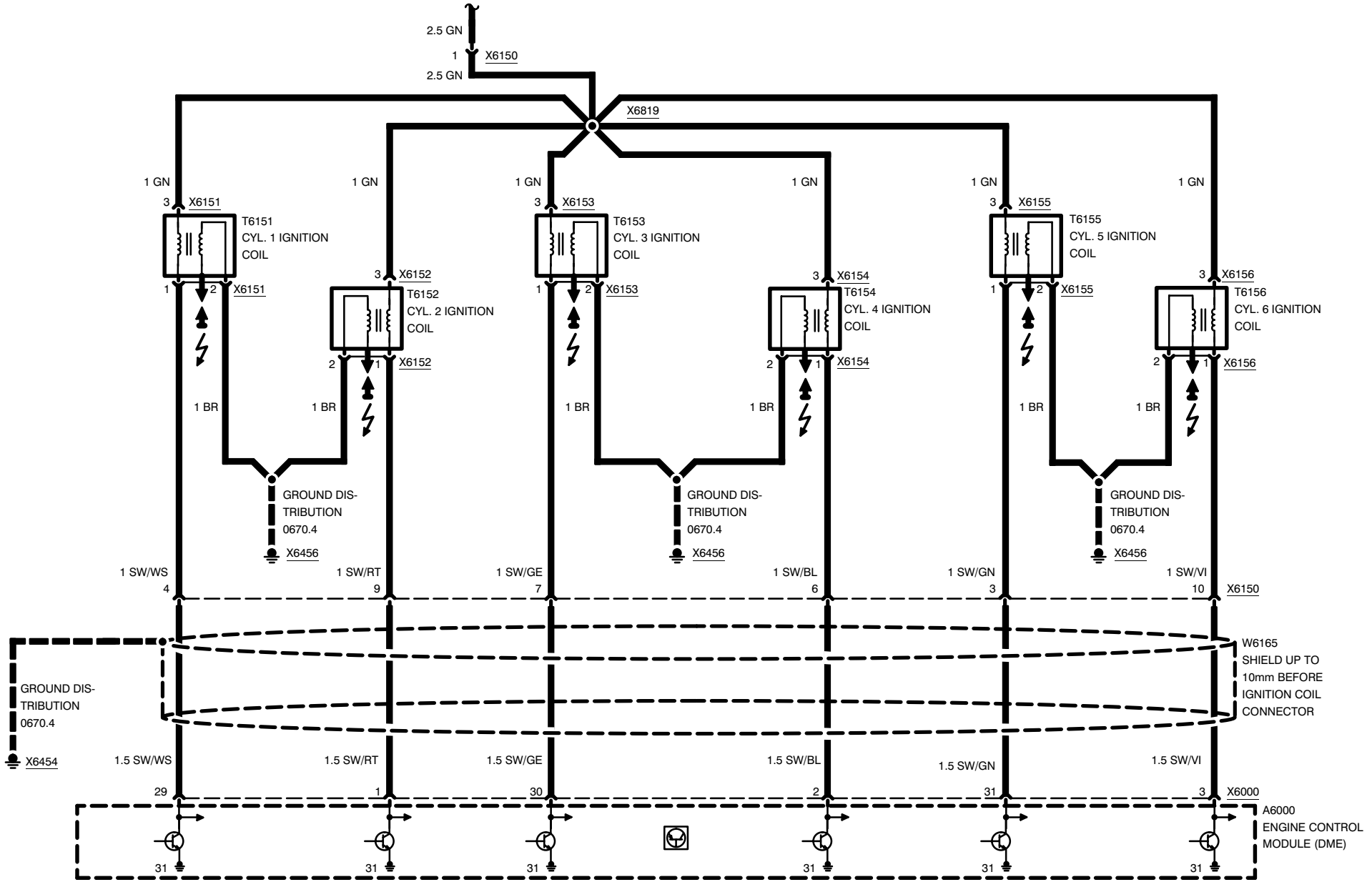
Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
62	A	Activate valve	Secondary air pump value
63	E	Cyl. 4-6 knock sensor	Knock sensor
64	M	Ground	Camshaft position sensor
65	E	Camshaft position	Camshaft position sensor
66		Not used	
67	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
68	A	Activate valve	Evaporative emission valve
69	A	Activate relay	Fuel pump relay
70	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
71	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
72	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
73	E	Activate relay	Engine control module relay
74	A	Activate A/C compressor	Compressor control relay
75	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
76	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
77	E	Sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Sensor signal	Oxygen sensor (behind catalytic converter)
79	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
80	A	ASC signal ZA	Slip control module (ABS/ASC)
81	A	ASC signal ZWV	Slip control module (ABS/ASC)
82	A	ASC signal MSR	Slip control module (ABS/ASC)
83	E	Sensor signal	Crankshaft position/RPM sensor
84		Not used	
85	E/A	CAN LOW	Transmission control module (EGS)
86	E/A	CAN HIGH	Transmission control module (EGS)
87	E	Battery voltage, terminal 87	Engine control module relay
88	E/A	TxD diagnosis data link	Data link connector

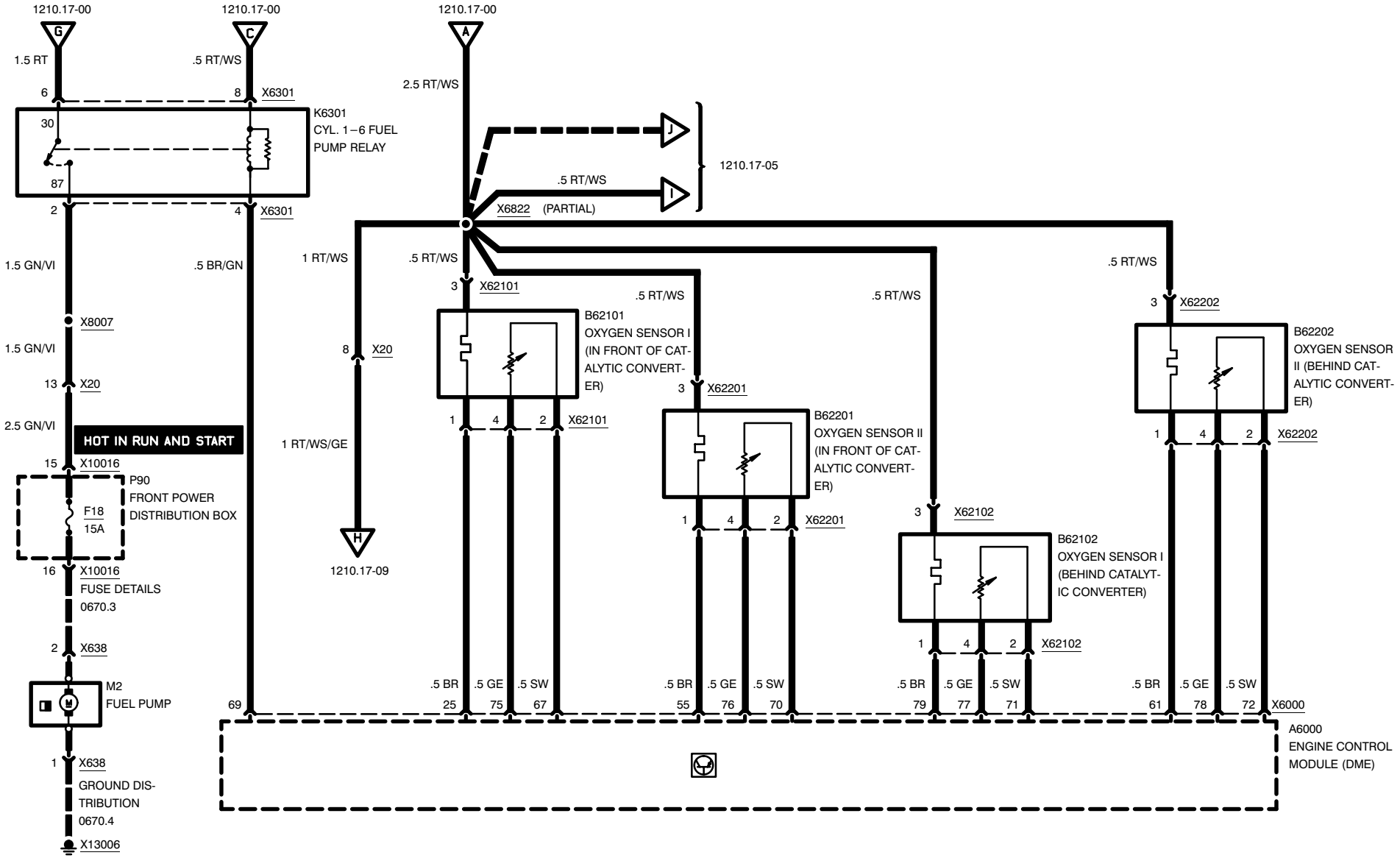
E = Input, A = Output, M = Ground

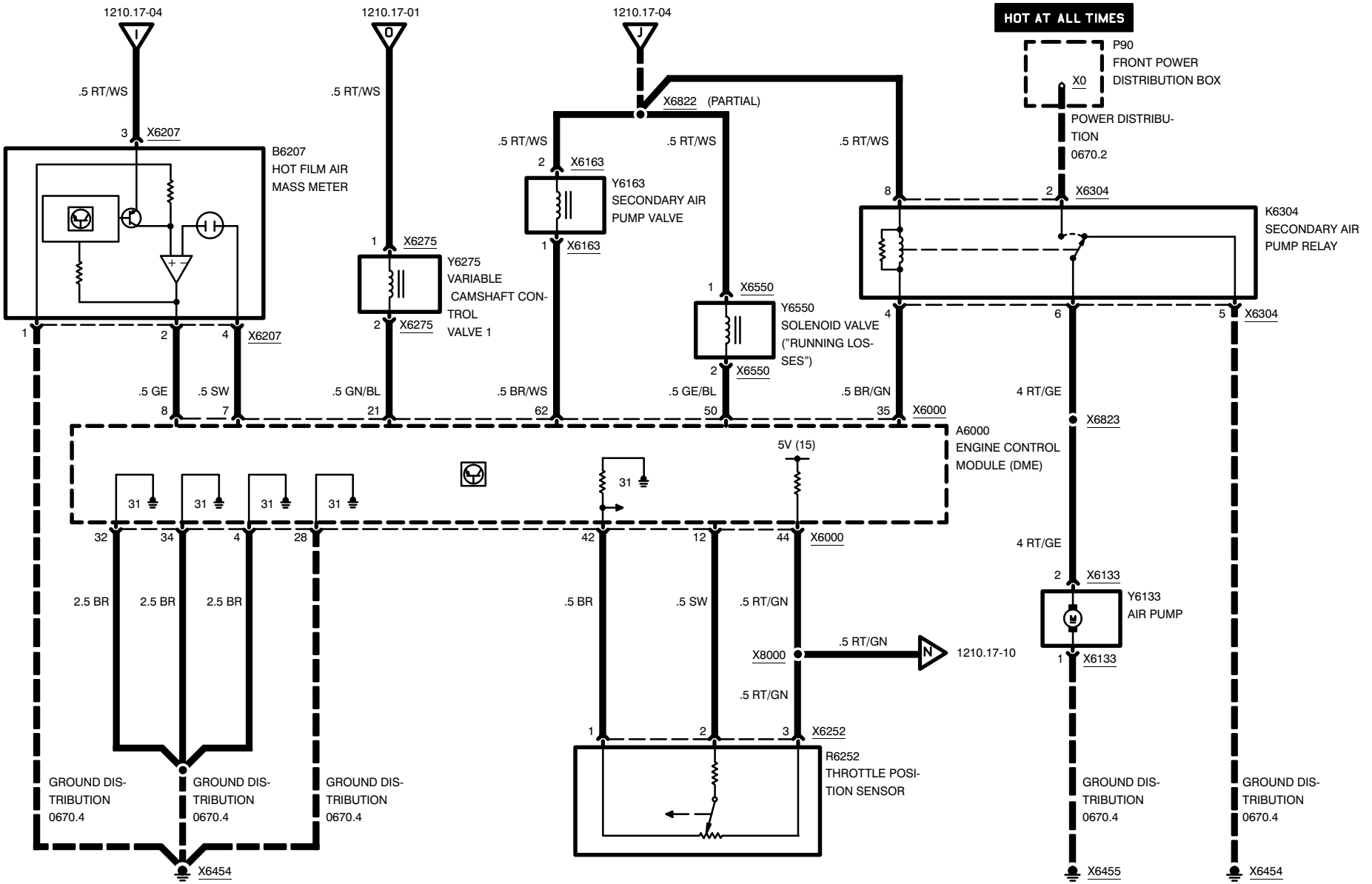

POWER DISTRIBU-
TION
0670.2
HOT AT ALL TIMES
G6430
B+ JUMP START
JUNCTION POINT
6 RT
X6412
4 RT
2.5 RT
14
D100
DATA LINK CON-
NECTOR
X6002
X6411
4 RT
4 RT
6
8
X6300
1.5 RT
1 RT
.5 RT
2.5 RT
F
1210.17-02
86
30
K6300
ENGINE CONTROL
MODULE RELAY
85
87
G
1210.17-04
4
2
X6300
4 RT/WS
1.5 RT/WS
X6821
54
26
X8500
A8500
TRANSMISSION
CONTROL MOD-
ULE (EGS)
.5 BR
.5 RT/WS
.5 RT/WS
1.5 RT/WS
.5 RT/WS
2.5 RT/WS
1 RT/WS
.5 RT/WS
B
C
A
D
E
1210.17-01
1210.17-04
1210.17-01
73
87
54
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31

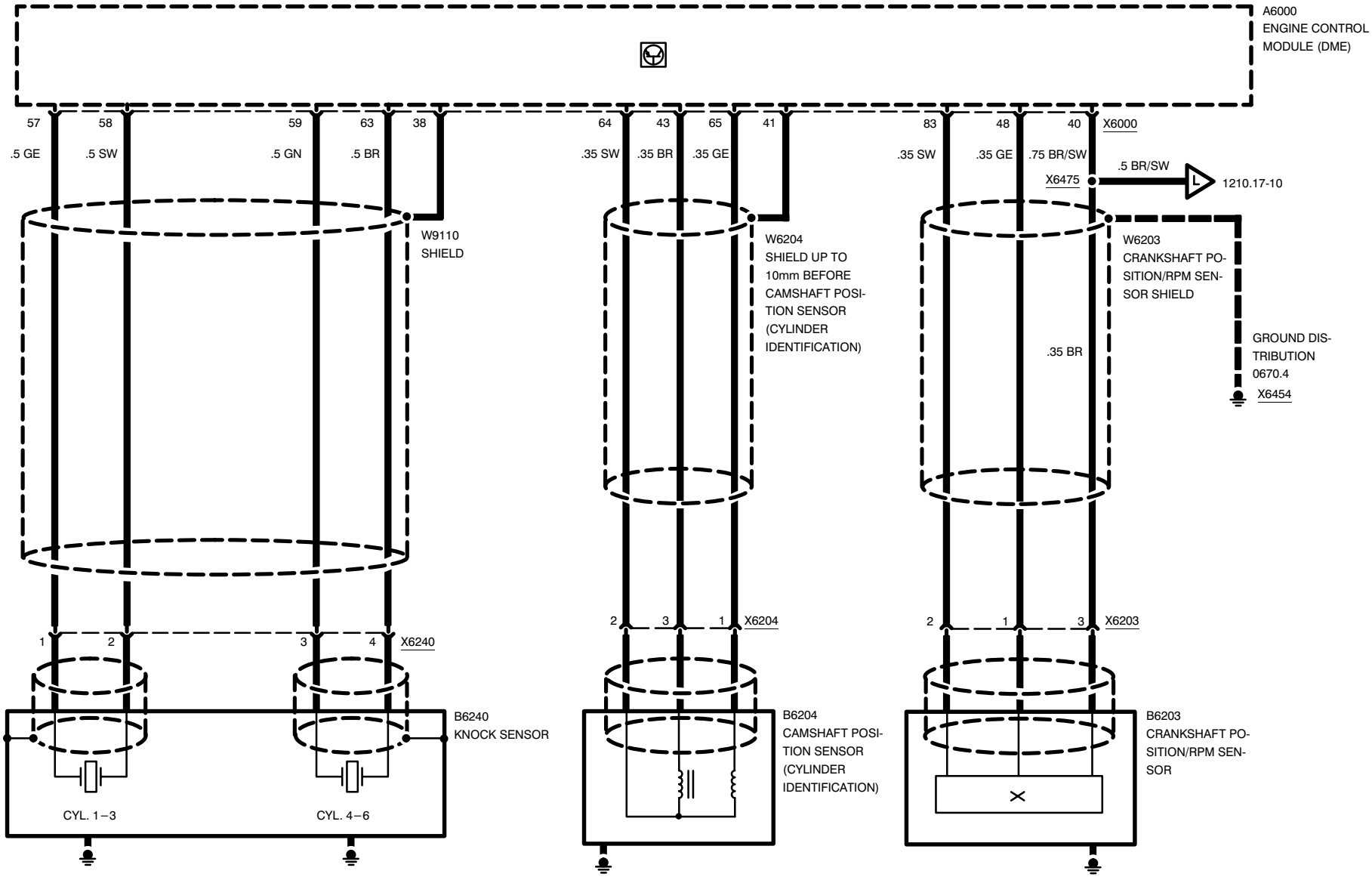

1210.17-00
D
E
1 RT/WS
.5 RT/WS
2
X6130
Y6130
IDLE SPEED CONTROL VALVE
3
1
X6130
1
X6120
Y6120
EVAPORATIVE EMISSION VALVE
2
X6120
.5 WS/GE
.5 WS/GN
.5 BR
53
27
68
31
1210.17-00
B
1.5 RT/WS
.5 RT/WS
O
1210.17-05
X6820
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
1
X6101
Y6101
CYL. 1 FUEL INJECTION VALVE
2
X6101
1
X6102
Y6102
CYL. 2 FUEL INJECTION VALVE
2
X6102
1
X6103
Y6103
CYL. 3 FUEL INJECTION VALVE
2
X6103
1
X6104
Y6104
CYL. 4 FUEL INJECTION VALVE
2
X6104
1
X6105
Y6105
CYL. 5 FUEL INJECTION VALVE
2
X6105
1
X6106
Y6106
CYL. 6 FUEL INJECTION VALVE
2
X6106
.75 BR/WS
.75 BR/RT
.75 BR/GE
.75 BR/BL
.75 BR/GN
.75 BR/VI
6
5
22
24
33
23
X6000
A6000
ENGINE CONTROL MODULE (DME)
31


HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
1210.17-00
F
15
1
X209
2.5 GN
7
X33
2.5 GN
X203
POWER DISTRIBUTION
0670.2
2.5 RT
2.5 GN
21
X20
.75 GN
X6832
.5 GN
6
8
X6326
30
86
K6326
UNLOADER RELAY, TERMINAL 15
1
2
87
85
2
4
X6326
GROUND DISTRIBUTION
0670.4
2.5 GN
.5 GN
49
X6000
A6000
ENGINE CONTROL MODULE (DME)
14
39
10
X6000
.5 GR/BR
X8038
.5 GR
.5 GR/BR
1
2
X6205
B6205
INTAKE AIR TEMPERATURE SENSOR
X6454
.5 GR/BR
.5 BR/RT
4
3
B6236
ENGINE COOLANT TEMPERATURE SENSOR
.5 BR/GE
.5 BR/VI
2
1
X6256
B6232
ENGINE COOLANT TEMPERATURE SENSOR
B6256
DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)
A2w
INSTRUMENT CLUSTER
17
18
X17
.5 BR/GE
.5 BR/VI
11
12
X20
.5 BR/GE
.5 BR/VI
X8071
X8051

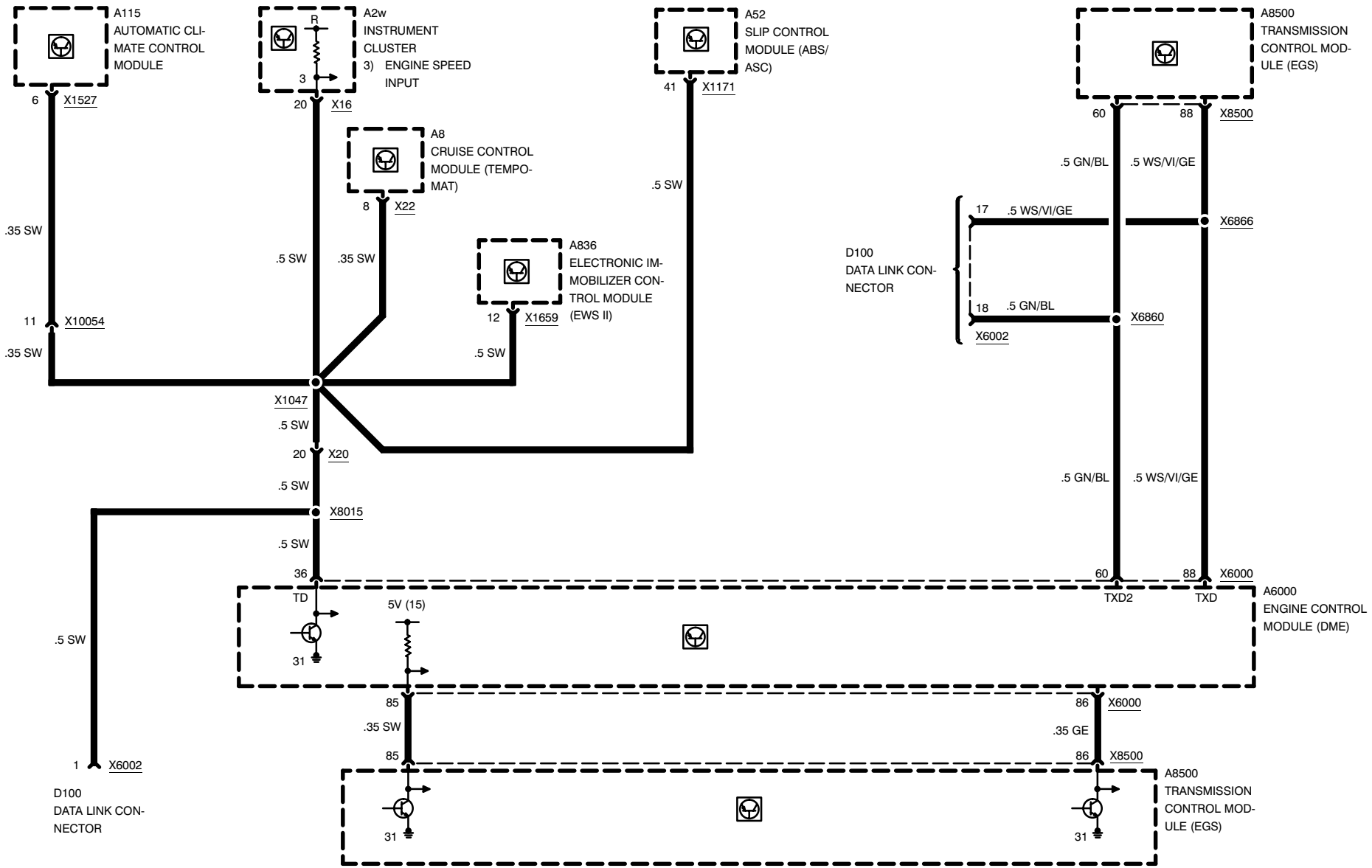

2.5 GN
1
X6150
2.5 GN
X6819
1 GN
3
X6151
T6151
CYL. 1 IGNITION
COIL
1
2
X6151
1 BR
3
X6152
T6152
CYL. 2 IGNITION
COIL
2
1
X6152
1 BR
GROUND DIS-
TRIBUTION
0670.4
X6456
1 GN
3
X6153
T6153
CYL. 3 IGNITION
COIL
1
2
X6153
1 BR
3
X6154
T6154
CYL. 4 IGNITION
COIL
2
1
X6154
1 BR
GROUND DIS-
TRIBUTION
0670.4
X6456
1 GN
3
X6155
T6155
CYL. 5 IGNITION
COIL
1
2
X6155
1 BR
3
X6156
T6156
CYL. 6 IGNITION
COIL
2
1
X6156
1 BR
GROUND DIS-
TRIBUTION
0670.4
X6456
1 SW/WS
4
1 SW/RT
9
1 SW/GE
7
1 SW/BL
6
1 SW/GN
3
1 SW/VI
10
X6150
W6165
SHIELD UP TO
10mm BEFORE
IGNITION COIL
CONNECTOR
GROUND DIS-
TRIBUTION
0670.4
X6454
1.5 SW/WS
29
1.5 SW/RT
1
1.5 SW/GE
30
1.5 SW/BL
2
1.5 SW/GN
31
1.5 SW/VI
3
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
31
31
31
31
31


1210.17-00
G
1.5 RT
6
X6301
8
.5 RT/WS
C
1210.17-00
A
2.5 RT/WS
K6301
CYL. 1−6 FUEL
PUMP RELAY
30
87
2
4
X6301
1.5 GN/VI
.5 BR/GN
X8007
1.5 GN/VI
13
X20
2.5 GN/VI
HOT IN RUN AND START
15
X10016
P90
FRONT POWER
DISTRIBUTION BOX
F18
15A
16
X10016
FUSE DETAILS
0670.3
2
X638
M2
FUEL PUMP
1
X638
GROUND DIS-
TRIBUTION
0670.4
X13006
J
.5 RT/WS
I
1210.17-05
X6822 (PARTIAL)
1 RT/WS
.5 RT/WS
8
X20
H
1210.17-09
1 RT/WS/GE
3
X62101
B62101
OXYGEN SENSOR I
(IN FRONT OF CAT-
ALYTIC CONVERT-
ER)
1
4
2
X62101
.5 RT/WS
3
X62201
B62201
OXYGEN SENSOR II
(IN FRONT OF CAT-
ALYTIC CONVERT-
ER)
1
4
2
X62201
.5 RT/WS
3
X62102
B62102
OXYGEN SENSOR I
(BEHIND CATALYT-
IC CONVERTER)
1
4
2
X62102
.5 RT/WS
3
X62202
B62202
OXYGEN SENSOR
II (BEHIND CAT-
ALYTIC CONVERT-
ER)
1
4
2
X62202
69
.5 BR
25
.5 GE
75
.5 SW
67
.5 BR
55
.5 GE
76
.5 SW
70
.5 BR
79
.5 GE
77
.5 SW
71
.5 BR
61
.5 GE
78
.5 SW
72
X6000
A6000
ENGINE CONTROL
MODULE (DME)

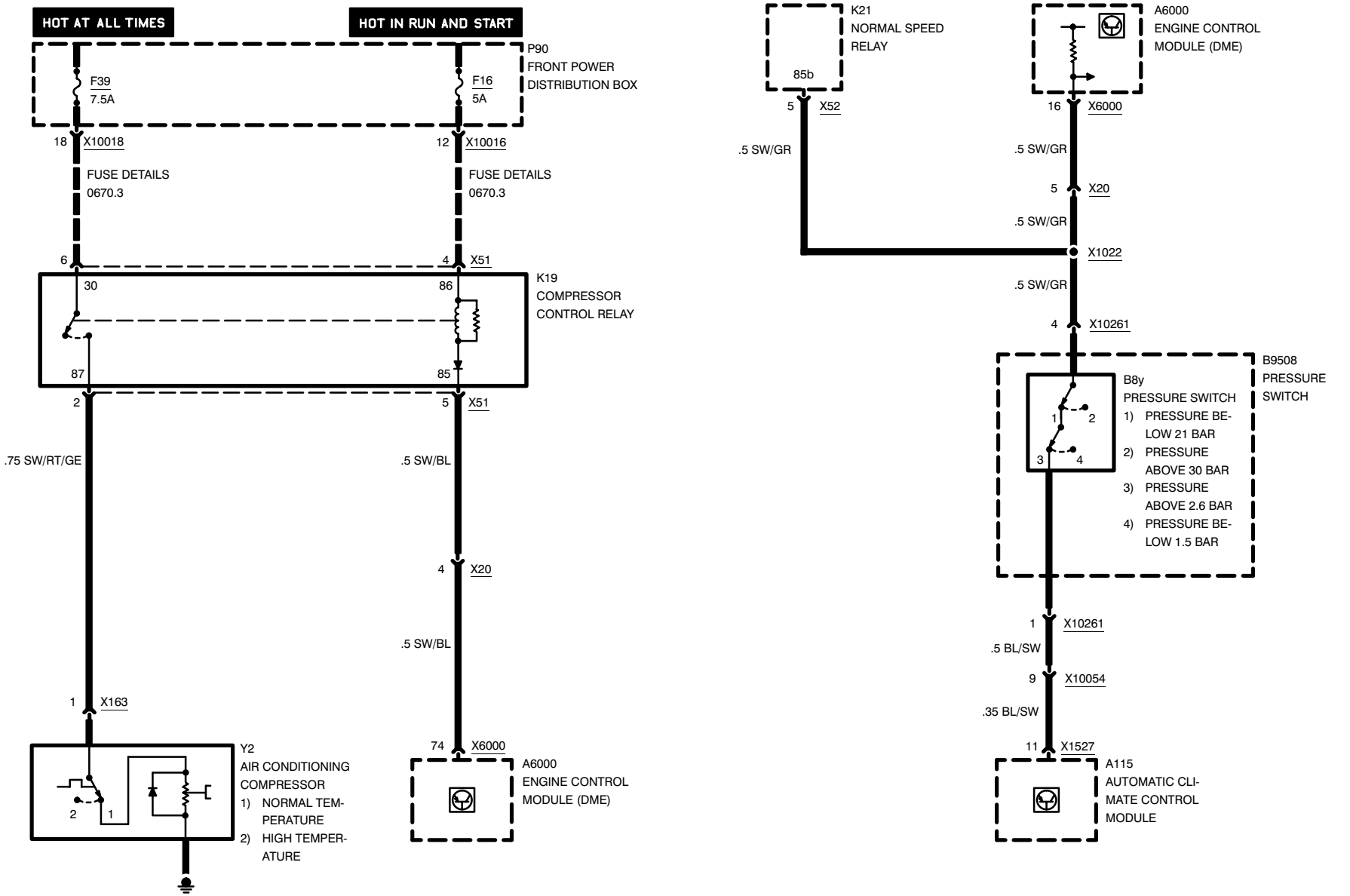

1210.17-04
I
.5 RT/WS
3
X6207
B6207
HOT FILM AIR
MASS METER
1
2
4
X6207
.5 GE
.5 SW
8
7
1210.17-01
O
.5 RT/WS
1
X6275
Y6275
VARIABLE
CAMSHAFT CON-
TROL
VALVE 1
2
X6275
.5 GN/BL
21
1210.17-04
J
X6822 (PARTIAL)
.5 RT/WS
2
X6163
Y6163
SECONDARY AIR
PUMP VALVE
1
X6163
.5 BR/WS
62
.5 RT/WS
1
X6550
Y6550
SOLENOID VALVE
("RUNNING LOS-
SES")
2
X6550
.5 GE/BL
50
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
X0
POWER DISTRIBU-
TION
0670.2
.5 RT/WS
8
2
X6304
K6304
SECONDARY AIR
PUMP RELAY
4
6
5
X6304
.5 BR/GN
35
X6000
A6000
ENGINE CONTROL
MODULE (DME)
5V (15)
31
31
31
31
31
32
34
4
28
42
12
44
X6000
2.5 BR
2.5 BR
2.5 BR
.5 BR
.5 SW
.5 RT/GN
.5 RT/GN
X8000
1210.17-10
.5 RT/GN
1
2
3
X6252
R6252
THROTTLE POSI-
TION SENSOR
4 RT/GE
X6823
4 RT/GE
2
X6133
Y6133
AIR PUMP
1
X6133
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
X6454
X6455
X6454


A6000
ENGINE CONTROL
MODULE (DME)
57
.5 GE
58
.5 SW
59
.5 GN
63
.5 BR
38
W9110
SHIELD
64
.35 SW
43
.35 BR
65
.35 GE
41
W6204
SHIELD UP TO
10mm BEFORE
CAMSHAFT POSI-
TION SENSOR
(CYLINDER
IDENTIFICATION)
83
.35 SW
48
.35 GE
40
.75 BR/SW
X6000
X6475
.5 BR/SW
1210.17-10
W6203
CRANKSHAFT PO-
SITION/RPM SEN-
SOR SHIELD
.35 BR
GROUND DIS-
TRIBUTION
0670.4
X6454
1
2
3
4
X6240
B6240
KNOCK SENSOR
CYL. 1−3
CYL. 4−6
2
3
1
X6204
B6204
CAMSHAFT POSI-
TION SENSOR
(CYLINDER
IDENTIFICATION)
2
1
3
X6203
B6203
CRANKSHAFT PO-
SITION/RPM SEN-
SOR

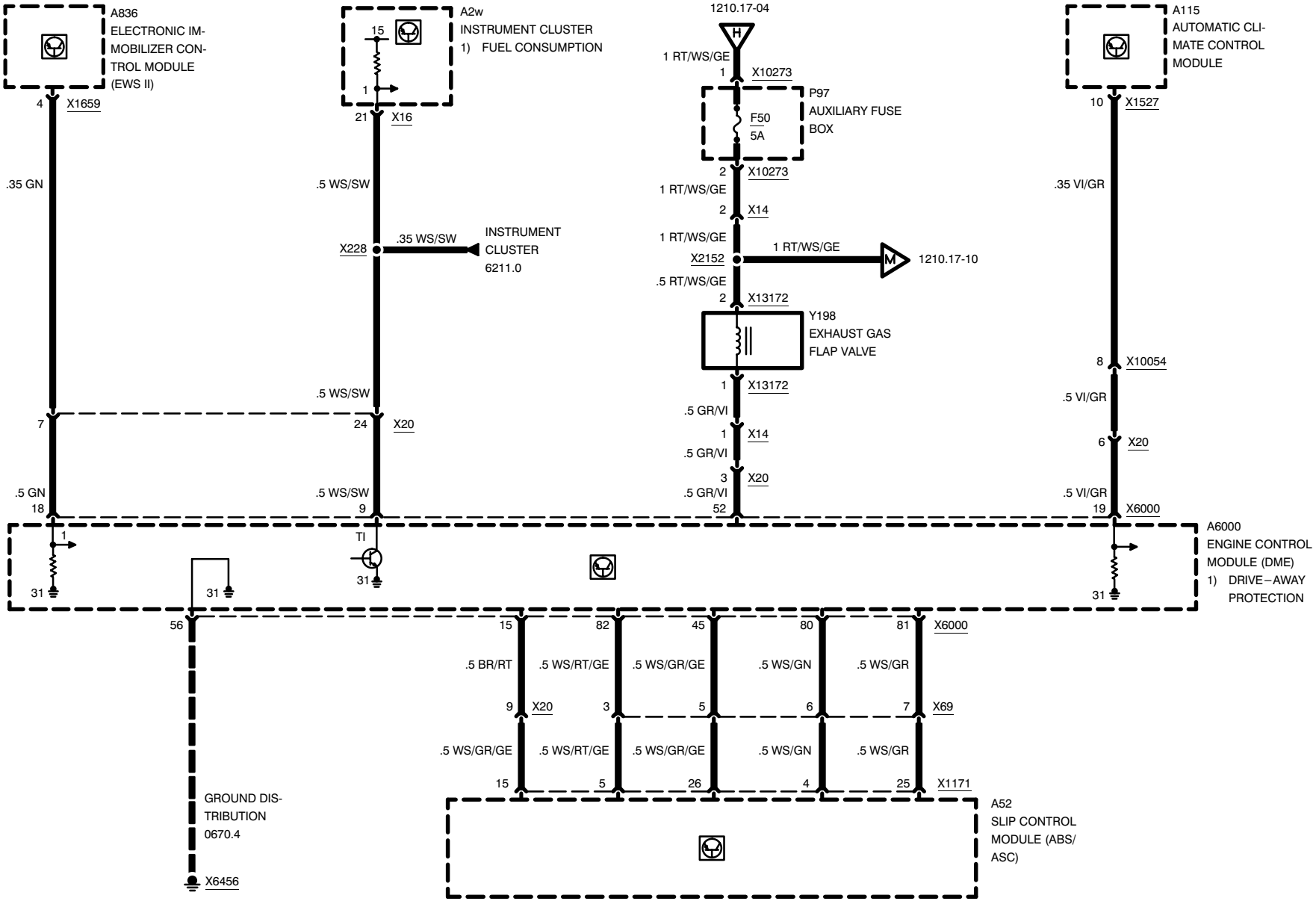
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52) 328i, M3

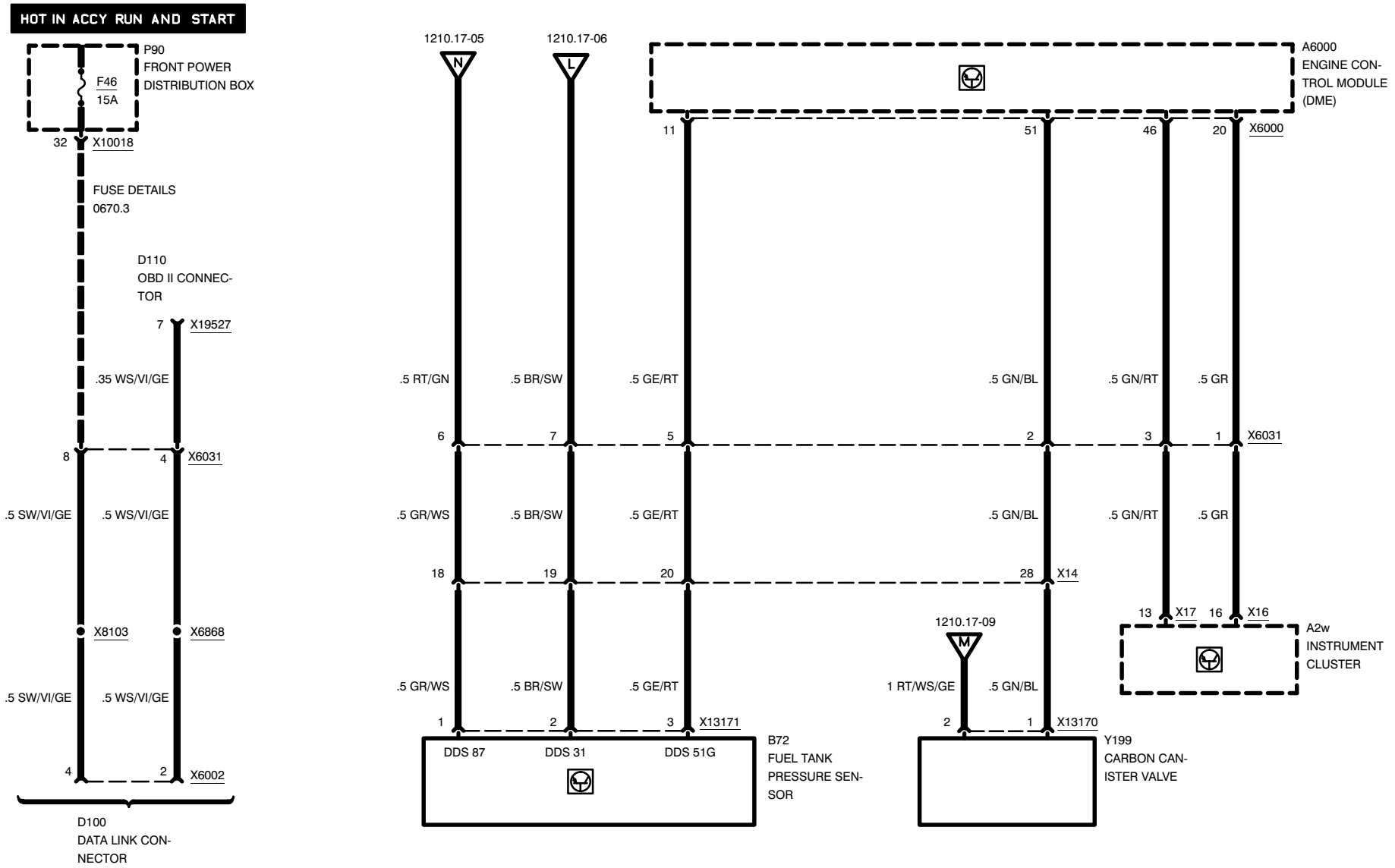


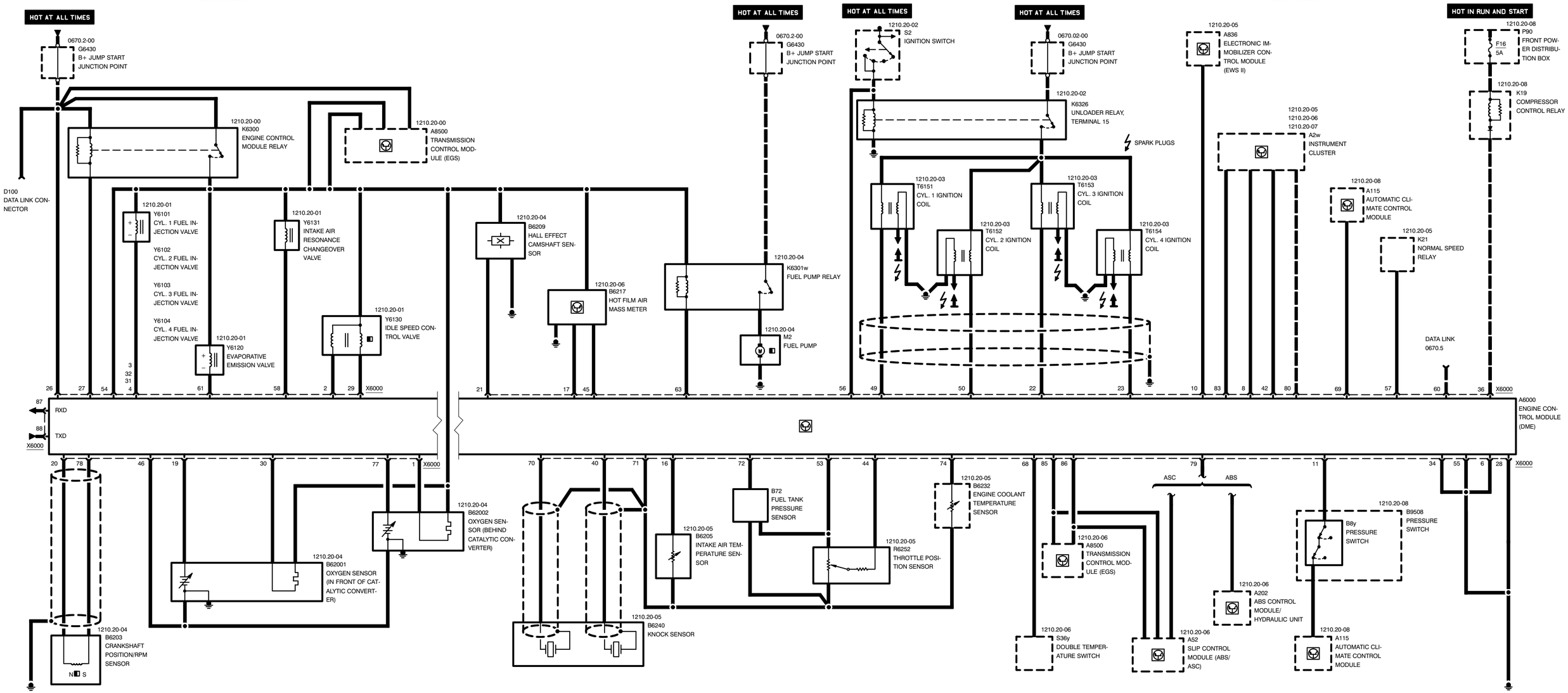
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52) 328i, M3

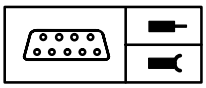


ENGINE CONTROL SYSTEM MS41.1 (6−CYLINDER M52) 328i, M3




HOT IN ACCY RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F46
15A
32
X10018
FUSE DETAILS
0670.3
D110
OBD II CONNEC-
TOR
7
X19527
.35 WS/VI/GE
8
4
X6031
.5 SW/VI/GE
.5 WS/VI/GE
X8103
X6868
.5 SW/VI/GE
.5 WS/VI/GE
4
2
X6002
D100
DATA LINK CON-
NECTOR
1210.17-05
1210.17-06
A6000
ENGINE CON-
TROL MODULE
(DME)
11
51
46
20
X6000
.5 RT/GN
.5 BR/SW
.5 GE/RT
.5 GN/BL
.5 GN/RT
.5 GR
6
7
5
2
3
1
X6031
.5 GR/WS
.5 BR/SW
.5 GE/RT
.5 GN/BL
.5 GN/RT
.5 GR
18
19
20
28
X14
13
X17
16
X16
A2w
INSTRUMENT
CLUSTER
1210.17-09
.5 GR/WS
.5 BR/SW
.5 GE/RT
1 RT/WS/GE
.5 GN/BL
1
2
3
X13171
2
1
X13170
DDS 87
DDS 31
DDS 51G
B72
FUEL TANK
PRESSURE SEN-
SOR
Y199
CARBON CAN-
ISTER VALVE


HOT AT ALL TIMES
0670.2-00
G6430
B+ JUMP START JUNCTION POINT
1210.20-00
K6300
ENGINE CONTROL MODULE RELAY
1210.20-00
A8500
TRANSMISSION CONTROL MODULE (EGS)
D100
DATA LINK CONNECTOR
1210.20-01
Y6101
CYL. 1 FUEL INJECTION VALVE
Y6102
CYL. 2 FUEL INJECTION VALVE
Y6103
CYL. 3 FUEL INJECTION VALVE
Y6104
CYL. 4 FUEL INJECTION VALVE
1210.20-01
Y6120
EVAPORATIVE EMISSION VALVE
1210.20-01
Y6131
INTAKE AIR RESONANCE CHANGEOVER VALVE
1210.20-01
Y6130
IDLE SPEED CONTROL VALVE
1210.20-04
B6209
HALL EFFECT CAMSHAFT SENSOR
1210.20-06
B6217
HOT FILM AIR MASS METER
HOT AT ALL TIMES
0670.2-00
G6430
B+ JUMP START JUNCTION POINT
1210.20-04
K6301w
FUEL PUMP RELAY
1210.20-04
M2
FUEL PUMP
HOT AT ALL TIMES
1210.20-02
S2
IGNITION SWITCH
HOT AT ALL TIMES
0670.02-00
G6430
B+ JUMP START JUNCTION POINT
1210.20-02
K6326
UNLOADER RELAY, TERMINAL 15
SPARK PLUGS
1210.20-03
T6151
CYL. 1 IGNITION COIL
1210.20-03
T6152
CYL. 2 IGNITION COIL
1210.20-03
T6153
CYL. 3 IGNITION COIL
1210.20-03
T6154
CYL. 4 IGNITION COIL
1210.20-05
A836
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)
1210.20-05
1210.20-06
1210.20-07
A2w
INSTRUMENT CLUSTER
1210.20-08
A115
AUTOMATIC CLIMATE CONTROL MODULE
1210.20-05
K21
NORMAL SPEED RELAY
DATA LINK
0670.5
HOT IN RUN AND START
1210.20-08
P90
FRONT POWER DISTRIBUTION BOX
F16
5A
1210.20-08
K19
COMPRESSOR CONTROL RELAY
X6000
87
88
RXD
TXD
A6000
ENGINE CONTROL MODULE (DME)
1210.20-04
B6203
CRANKSHAFT POSITION/RPM SENSOR
1210.20-04
B62001
OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER)
1210.20-04
B62002
OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)
1210.20-05
B6240
KNOCK SENSOR
1210.20-05
B6205
INTAKE AIR TEMPERATURE SENSOR
B72
FUEL TANK PRESSURE SENSOR
1210.20-05
R6252
THROTTLE POSITION SENSOR
1210.20-05
B6232
ENGINE COOLANT TEMPERATURE SENSOR
1210.20-06
A8500
TRANSMISSION CONTROL MODULE (EGS)
1210.20-06
S36y
DOUBLE TEMPERATURE SWITCH
ASC
ABS
1210.20-06
A52
SLIP CONTROL MODULE (ABS/ASC)
1210.20-06
A202
ABS CONTROL MODULE/ HYDRAULIC UNIT
1210.20-08
B8y
PRESSURE SWITCH
1210.20-08
B9508
PRESSURE SWITCH
1210.20-08
A115
AUTOMATIC CLIMATE CONTROL MODULE

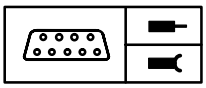


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
89	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
90	A	Activate valve	Idle speed control valve
91	A	Activate valve	Cyl. 1 fuel injection valve
92	A	Activate valve	Cyl. 4 fuel injection valve
93		Not used	
94	M	Ground, fuel injection valve output stages	Ground point
95		Not used	
96	A	“Check engine” indicator control	Instrument cluster
97		Not used	
98	E	Drive away protection signal	Electronic immobilizer control module (EWS II)
99	E	Activate A/C	Pressure switch
100		Not used	
101		Not used	
102		Not used	
103		Not used	
104	E	Intake air temperature	Intake air temperature sensor
105	M	Ground	Hot film air mass meter
106		Not used	
107	E	Oxygen sensor signal	Oxygen sensor (in front of catalytic converter)
108	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
109	E	Camshaft position	Hall effect camshaft sensor
110	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
111	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
112		Not used	
113		Not used	
114	E	Battery voltage	B+ jump start junction point
115	A	Engine control module relay control	Engine control module relay, terminal 85
116	M	Ground for electronics and shielding of sensors	Ground point

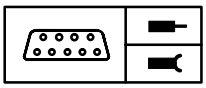
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
117	A	Idle speed control valve control	Idle speed control valve
118	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
119	A	Activate valve	Cyl. 3 fuel injection valve
120	A	Activate valve	Cyl. 2 fuel injection valve
121		Not used	
122	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
123		Not used	
124	A	A/C compressor cut-out	Compressor control relay
125		Not used	
126		Not used	
127		Not used	
128	E	Cyl. 3-4 knock sensor	Knock sensor
129		Not used	
130	E	TI-measurement signal (fuel consumption)	Instrument cluster
131		Not used	
132	E	Throttle position	Throttle position sensor
133	E	Signal input	Hot film air mass meter
134	M	Sensor ground	Oxygen sensors
135		Not used	
136		Not used	
137	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
138	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
139		Not used	
140		Not used	
141	A	Component supply +	Throttle position sensor
142	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
143	M	Ground, ignition	Ground point
144	E	Ignition switch, terminal 15	Ignition switch, terminal 15
145	A	Activate auxiliary fan	Normal speed relay
146	A	Activate valve	Intake air resonance changeover valve

E = Input, A = Output, M = Ground



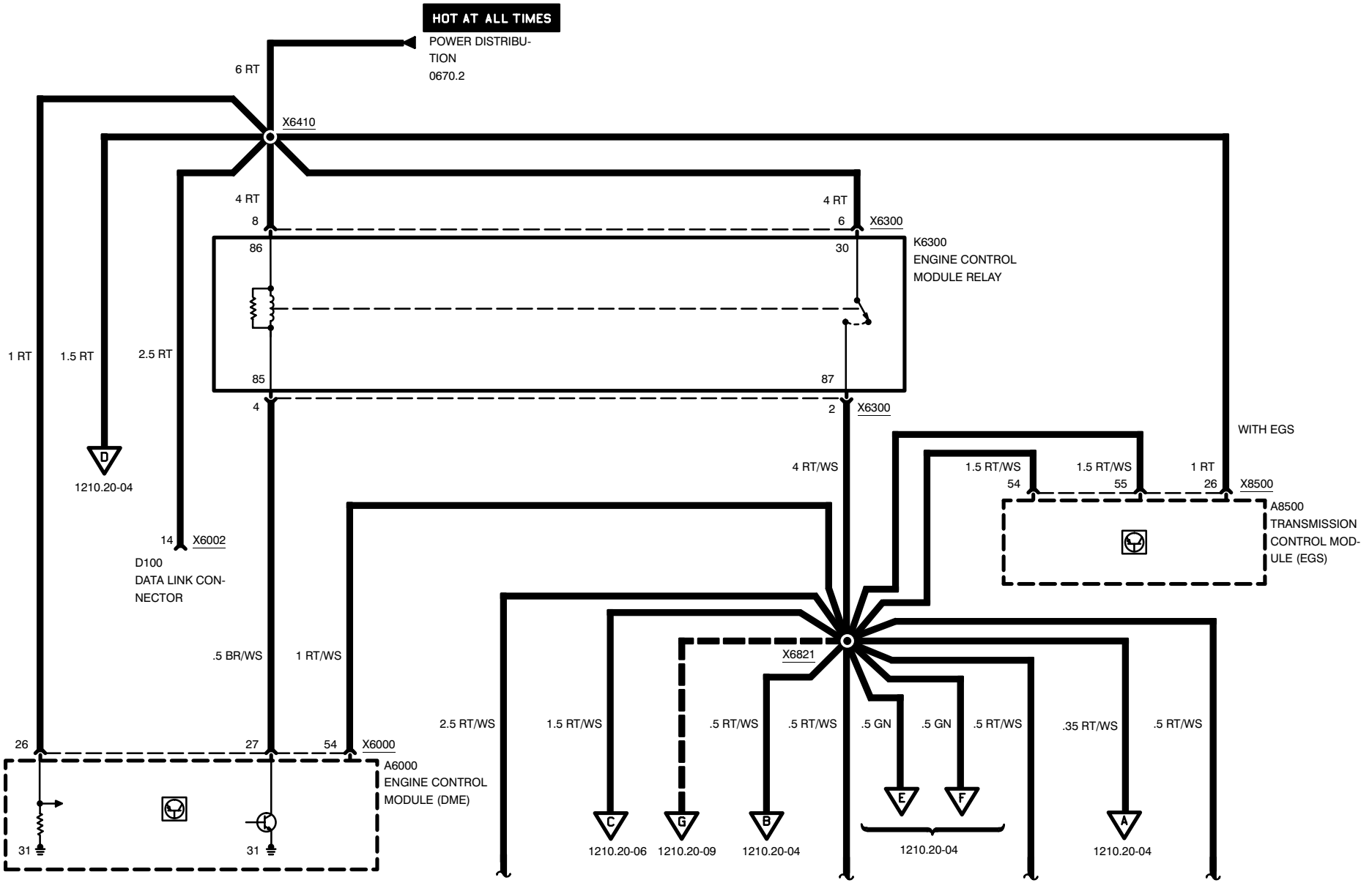
Pin Assignments

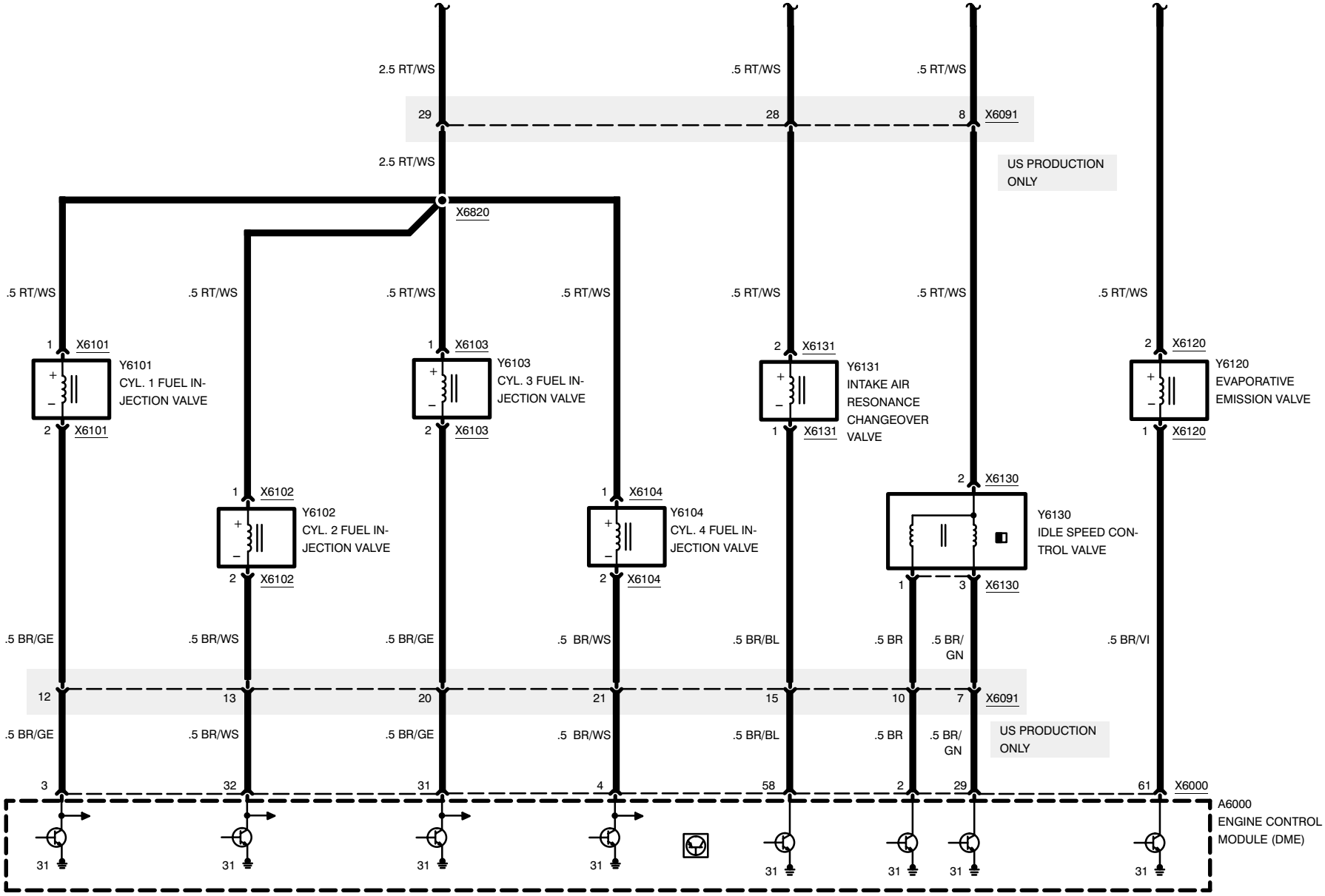
Pin	Type	Description/Function	Connection
147		Not used	
148	E	Programming voltage	Data link connector
149	A	Activate valve	Evaporation emission valve
150		Not used	
151	A	Activate relay	Fuel pump relay
152	A	Secondary air pump valve control	Secondary air pump valve
153	A	Carbon canister valve control	Carbon canister valve
154	A	Fuel changeover valve	Fuel changeover valve
155		Not used	
156	E	Signal above 80 ˚C	Double temperature switch
157	E	A/C-ON-signal	Air conditioning operating unit
158	E	Cyl 1-2 knock sensor	Knock sensor
159	M	Ground for sensors	Temperature-/ knock-/ throttle position-sensors
160	E	Fuel tank pressure	Fuel tank pressure sensor
161		Not used	
162	E	Temperature signal	Engine coolant temperature sensor
163		Not used	
164		Not used	
165	E	Oxygen sensor signal	Oxygen sensor (behind catalytic converter)
166	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
167	E	Speed signal right rear	ABS/ASC control module
168	A	Crankshaft RPM speed signal TD	Instrument cluster
169		Not used	
170		Not used	
171	E	Vehicle speed signal	Instrument cluster
172		Not used	
173	E/A	CAN LOW	EGS/ASC control module
174	E/A	CAN HIGH	EGS/ASC control module
175	A	RxD diagnosis data line	Data link connector
176	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

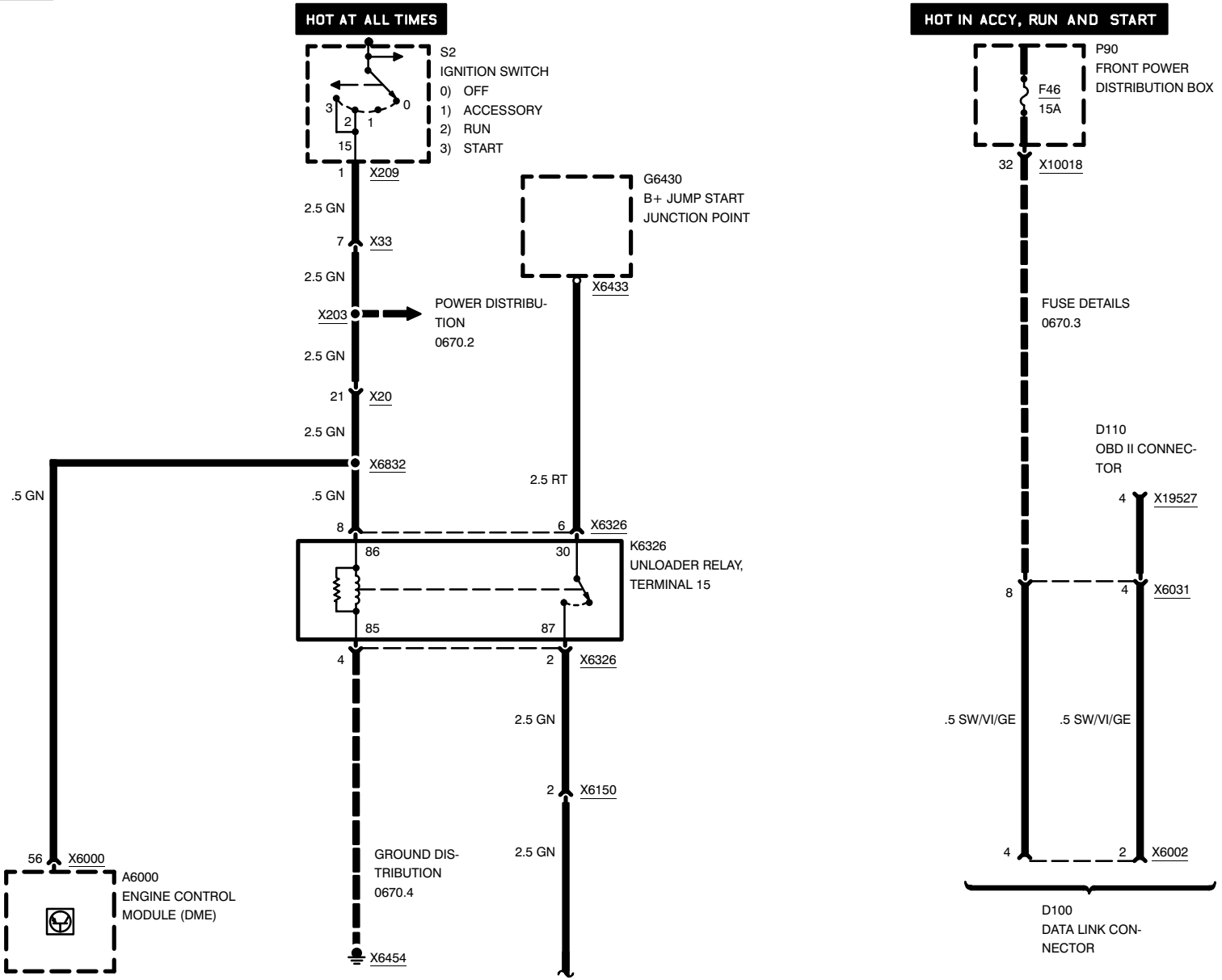
POWER, FUEL INJECTION VALVES

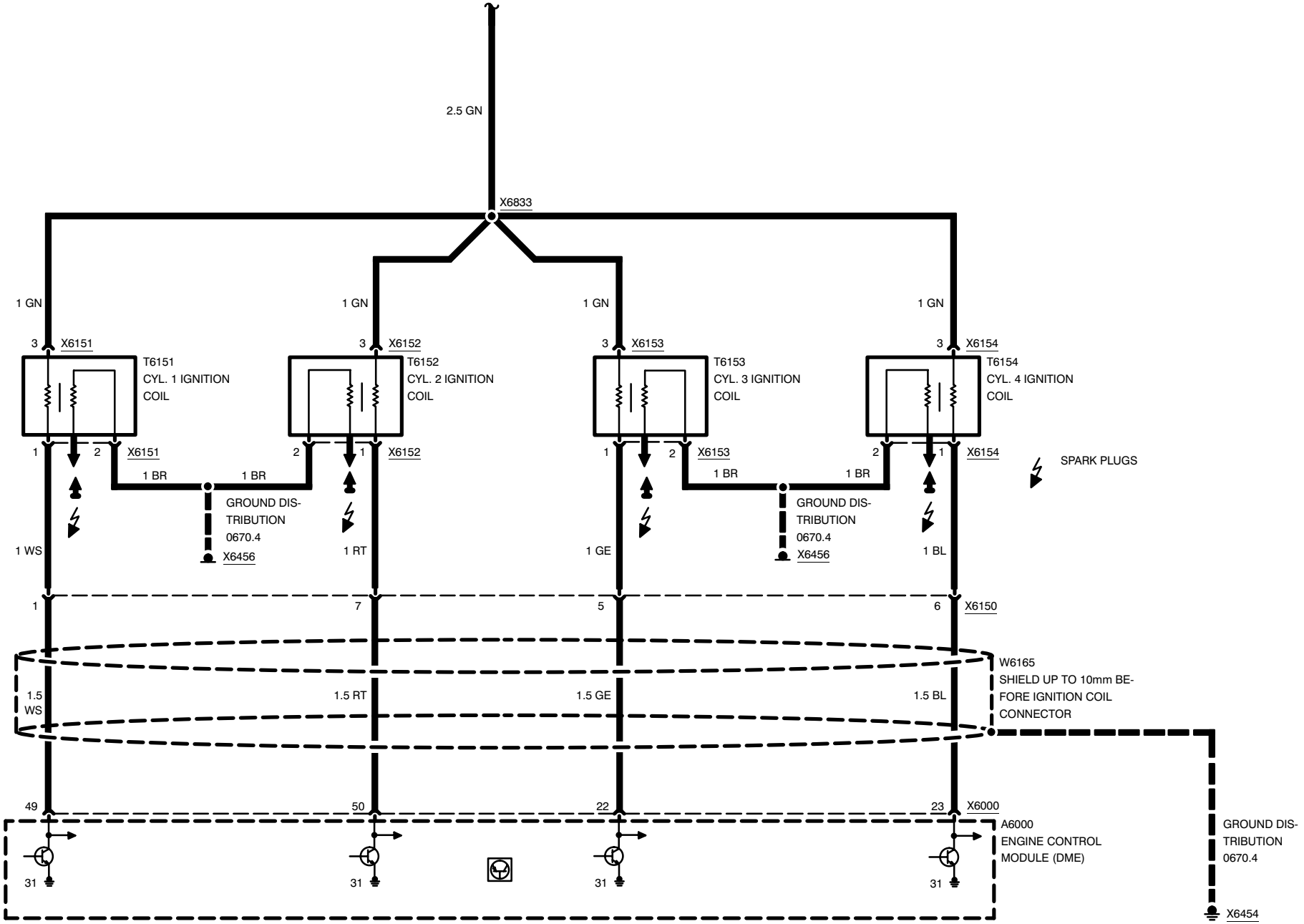



2.5 RT/WS
.5 RT/WS
.5 RT/WS
29
28
8
X6091
US PRODUCTION ONLY
2.5 RT/WS
X6820
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
1
X6101
Y6101
CYL. 1 FUEL IN-JECTION VALVE
2
X6101
1
X6102
Y6102
CYL. 2 FUEL IN-JECTION VALVE
2
X6102
1
X6103
Y6103
CYL. 3 FUEL IN-JECTION VALVE
2
X6103
1
X6104
Y6104
CYL. 4 FUEL IN-JECTION VALVE
2
X6104
2
X6131
Y6131
INTAKE AIR RESONANCE CHANGEOVER VALVE
1
X6131
2
X6130
Y6130
IDLE SPEED CON-TROL VALVE
1
3
X6130
2
X6120
Y6120
EVAPORATIVE EMISSION VALVE
1
X6120
.5 BR/GE
.5 BR/WS
.5 BR/GE
.5 BR/WS
.5 BR/BL
.5 BR
.5 BR/ GN
.5 BR/VI
12
13
20
21
15
10
7
X6091
US PRODUCTION ONLY
.5 BR/GE
.5 BR/WS
.5 BR/GE
.5 BR/WS
.5 BR/BL
.5 BR
.5 BR/ GN
3
32
31
4
58
2
29
61
X6000
A6000
ENGINE CONTROL MODULE (DME)
31
31
31
31
31
31
31
31

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

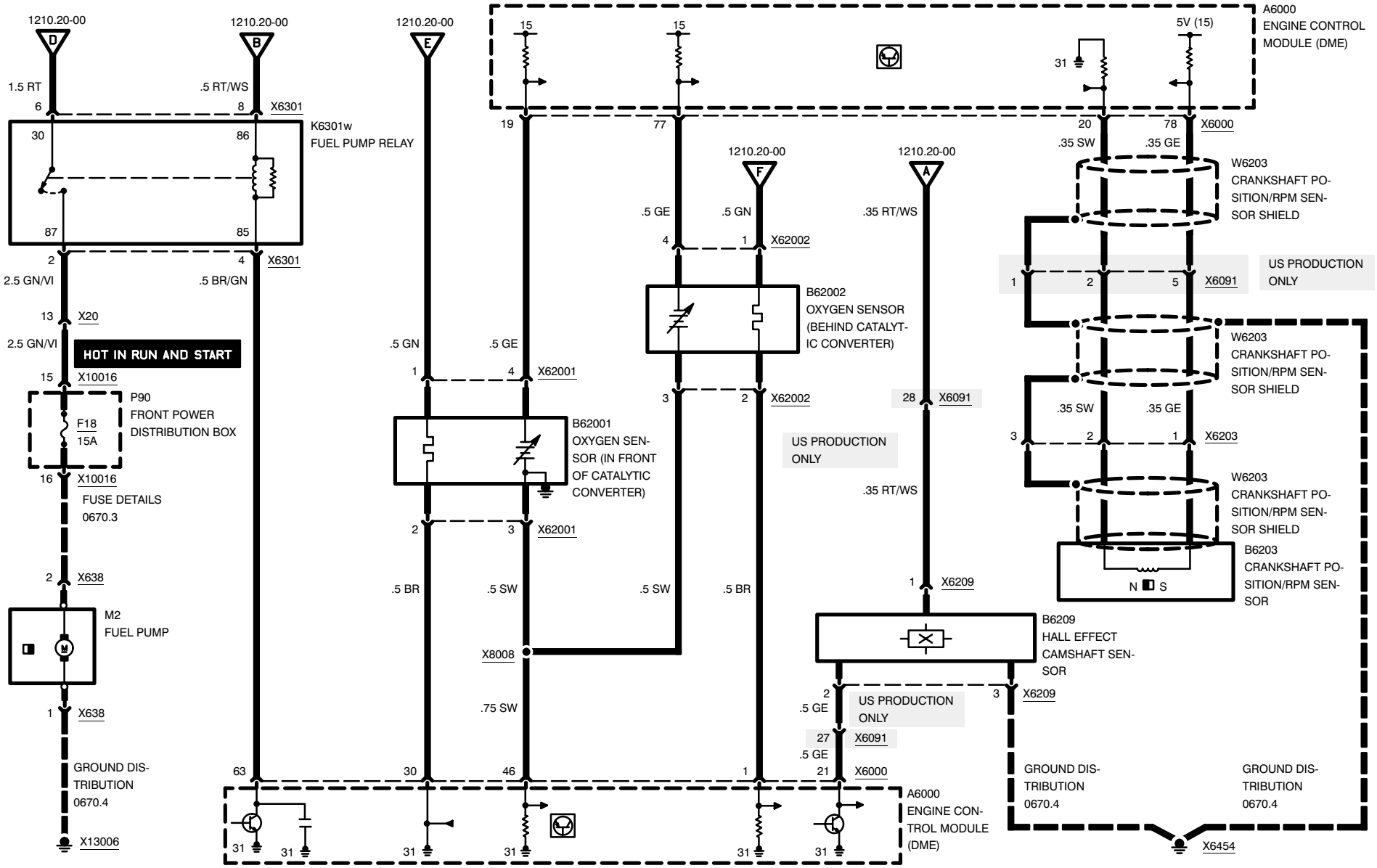
IGNITION COILS



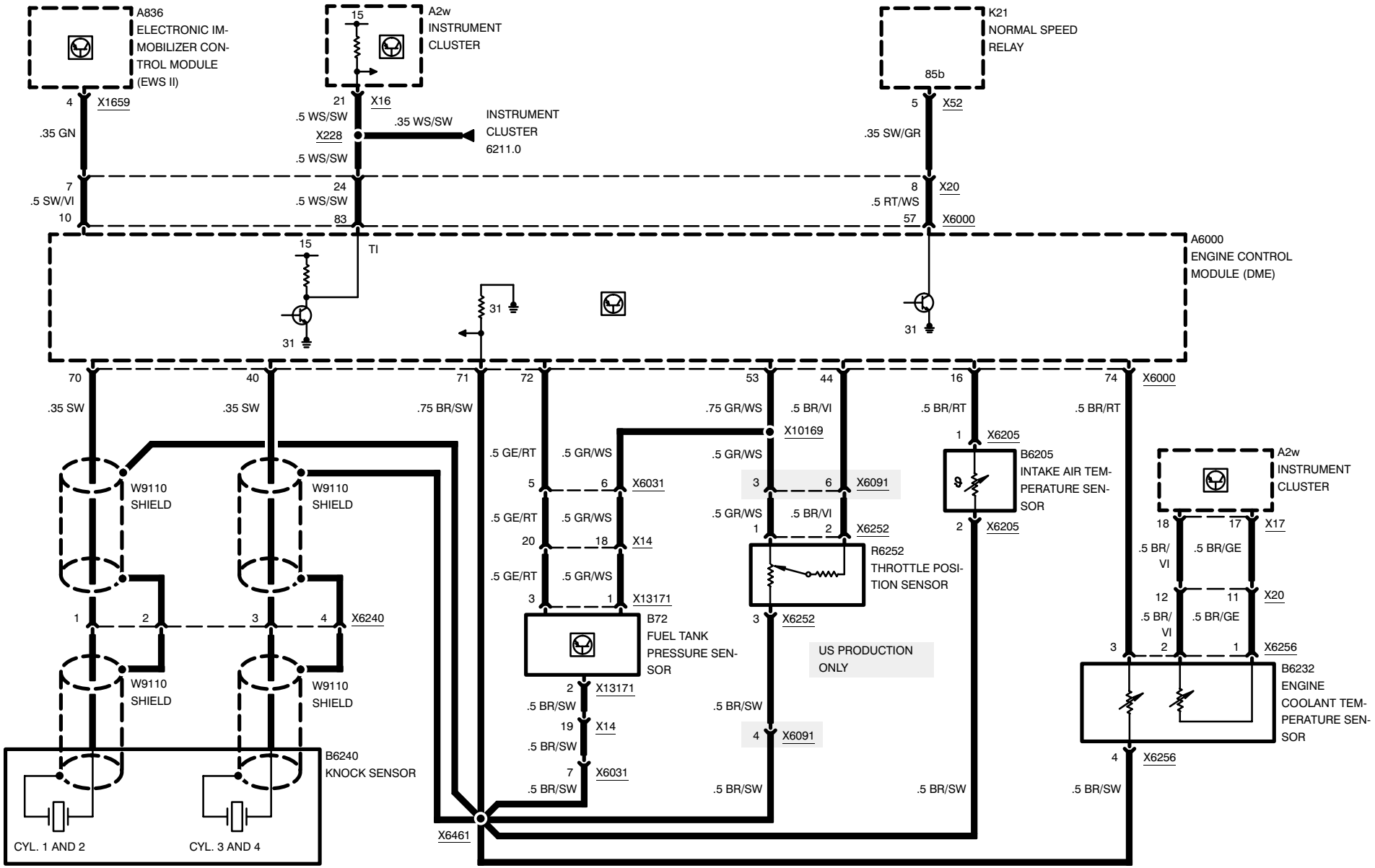

2.5 GN
X6833
1 GN
1 GN
1 GN
1 GN
3
X6151
T6151
CYL. 1 IGNITION COIL
3
X6152
T6152
CYL. 2 IGNITION COIL
3
X6153
T6153
CYL. 3 IGNITION COIL
3
X6154
T6154
CYL. 4 IGNITION COIL
SPARK PLUGS
1
2
X6151
1 BR
1 BR
GROUND DISTRIBUTION 0670.4
X6456
2
1
X6152
1 WS
1 RT
1
2
X6153
1 BR
1 BR
GROUND DISTRIBUTION 0670.4
X6456
2
1
X6154
1 GE
1 BL
1
7
5
6
X6150
W6165
SHIELD UP TO 10mm BEFORE IGNITION COIL CONNECTOR
1.5 WS
1.5 RT
1.5 GE
1.5 BL
49
50
22
23
X6000
A6000
ENGINE CONTROL MODULE (DME)
31
31
31
31
GROUND DISTRIBUTION 0670.4
X6454

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

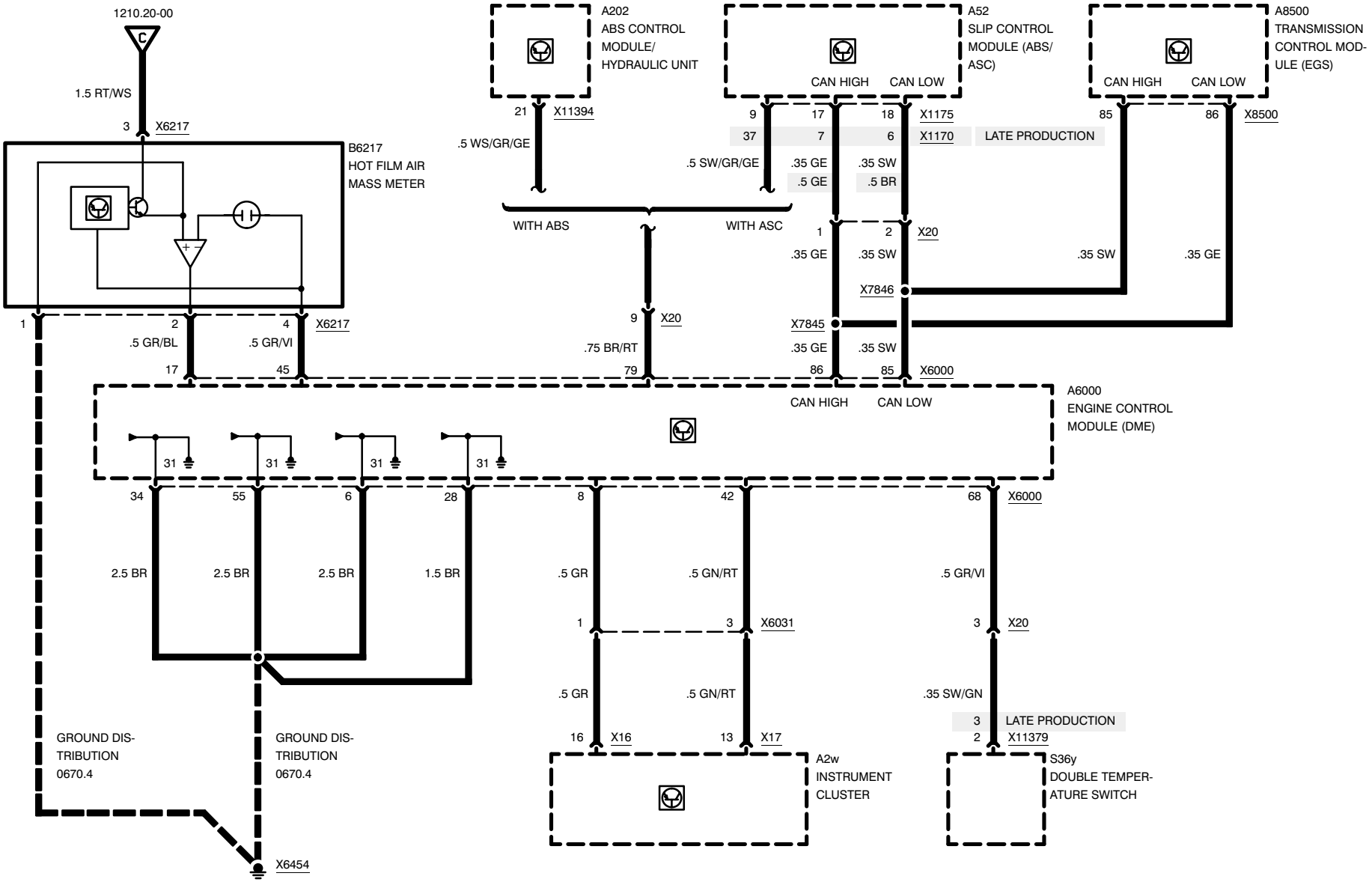
FUEL PUMP, HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

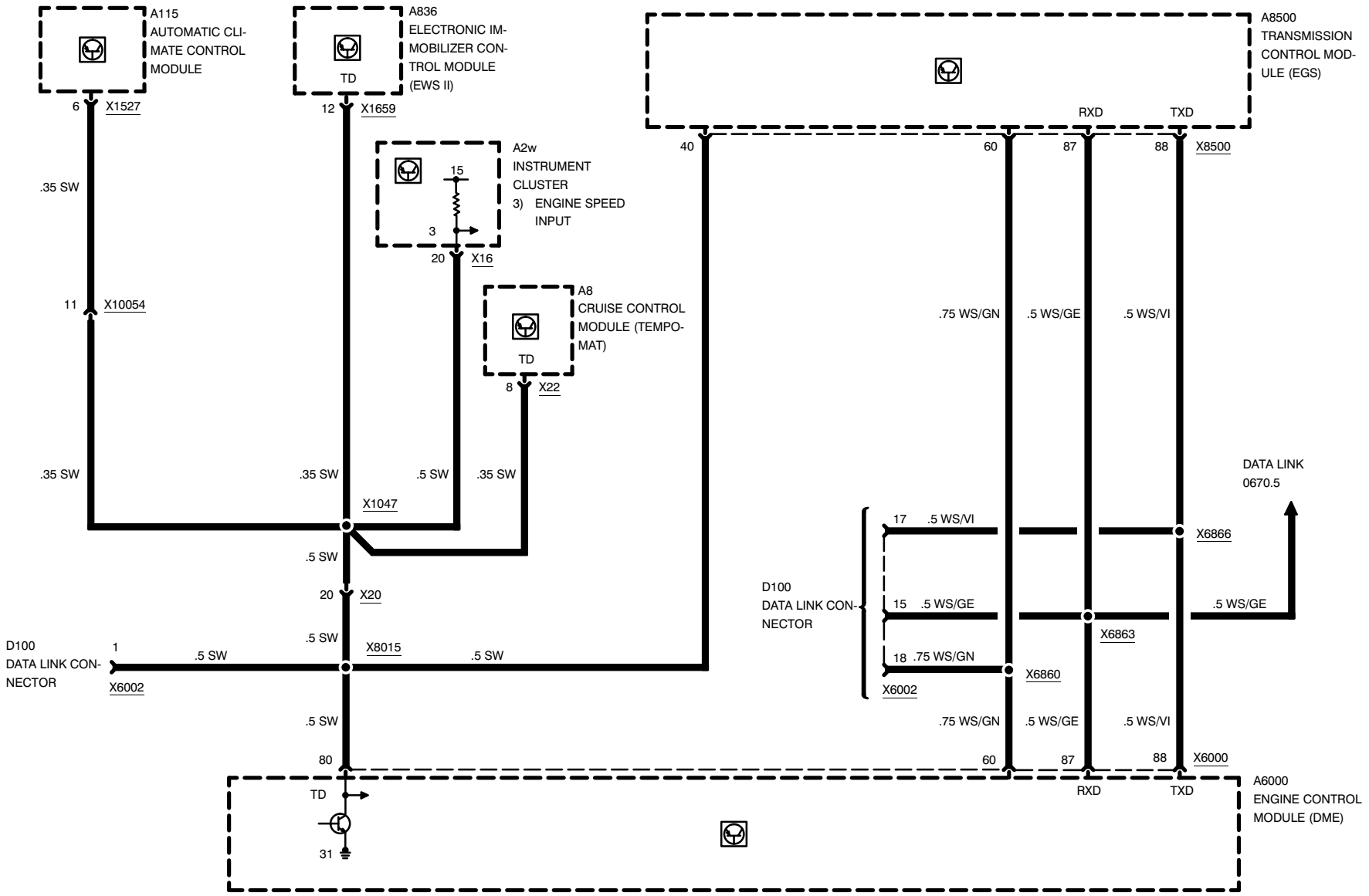


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

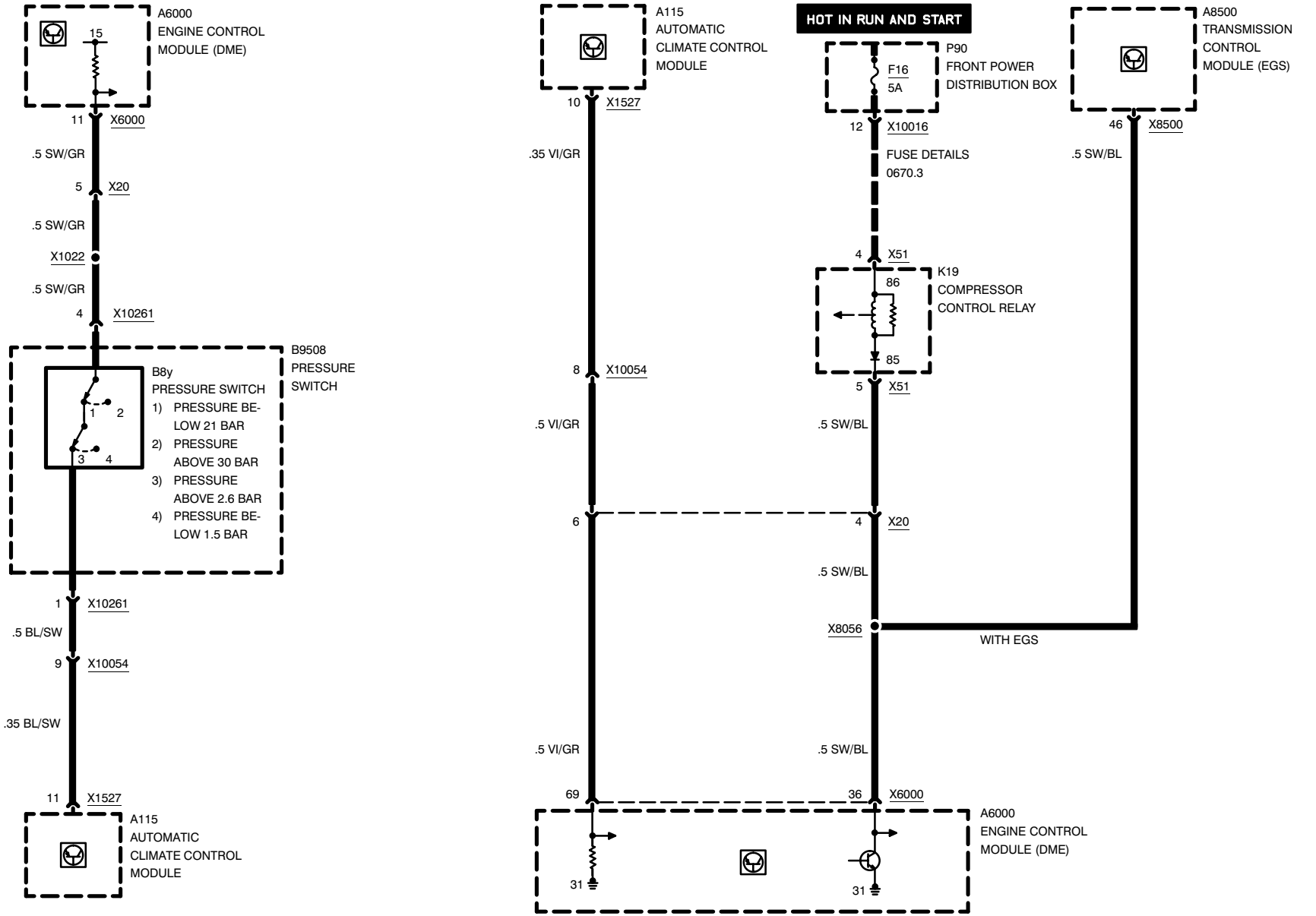


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

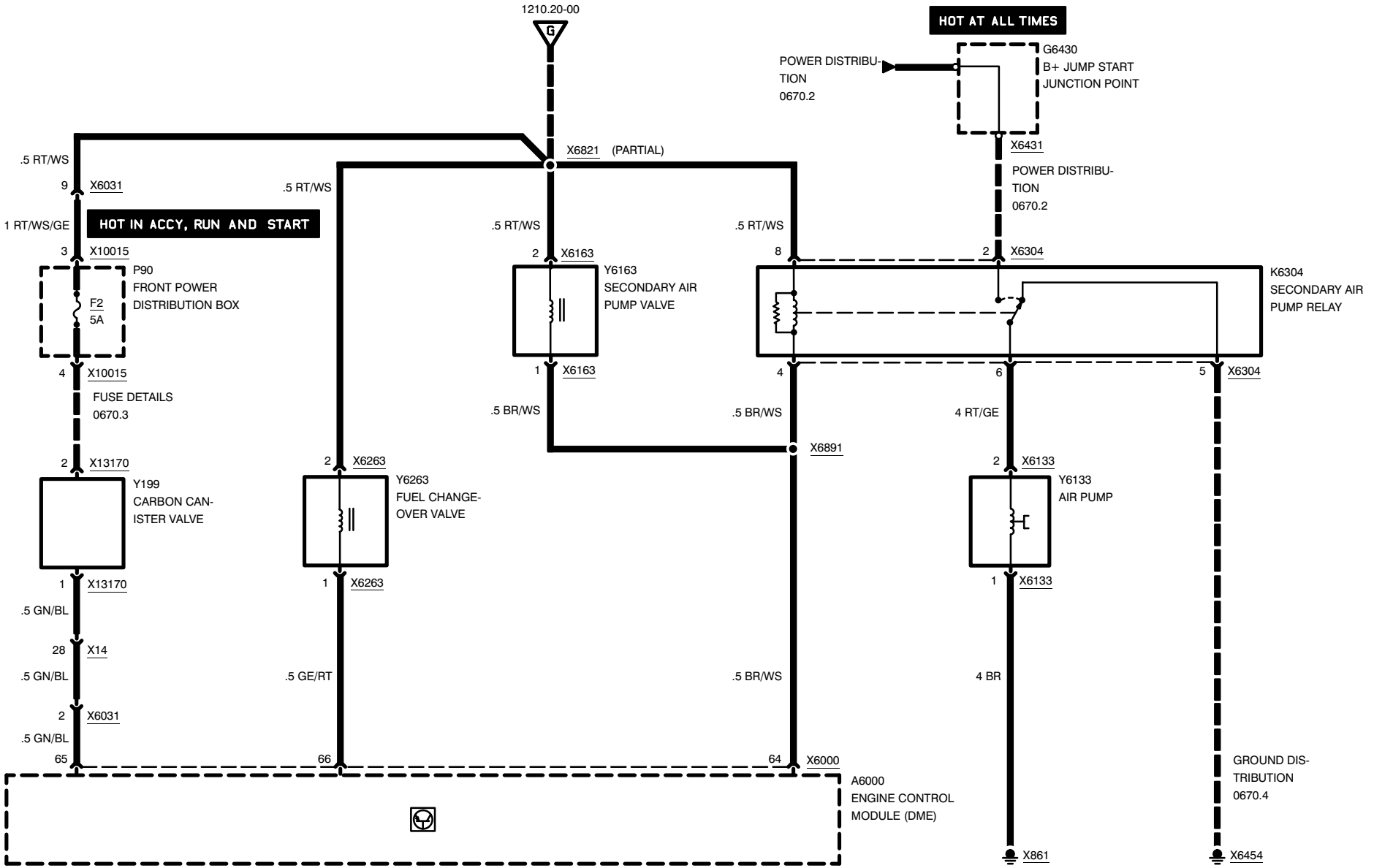
DATA LINK



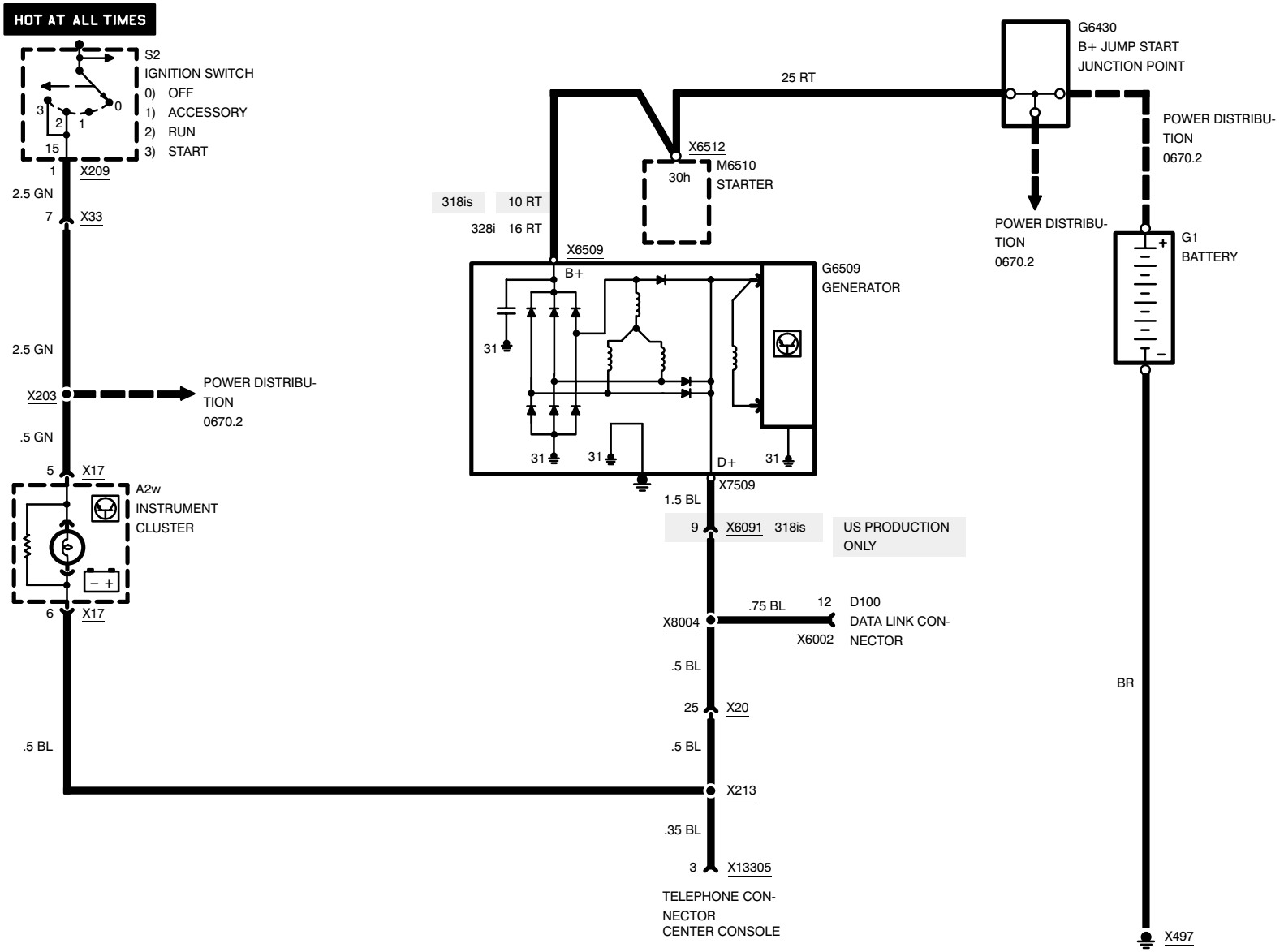
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



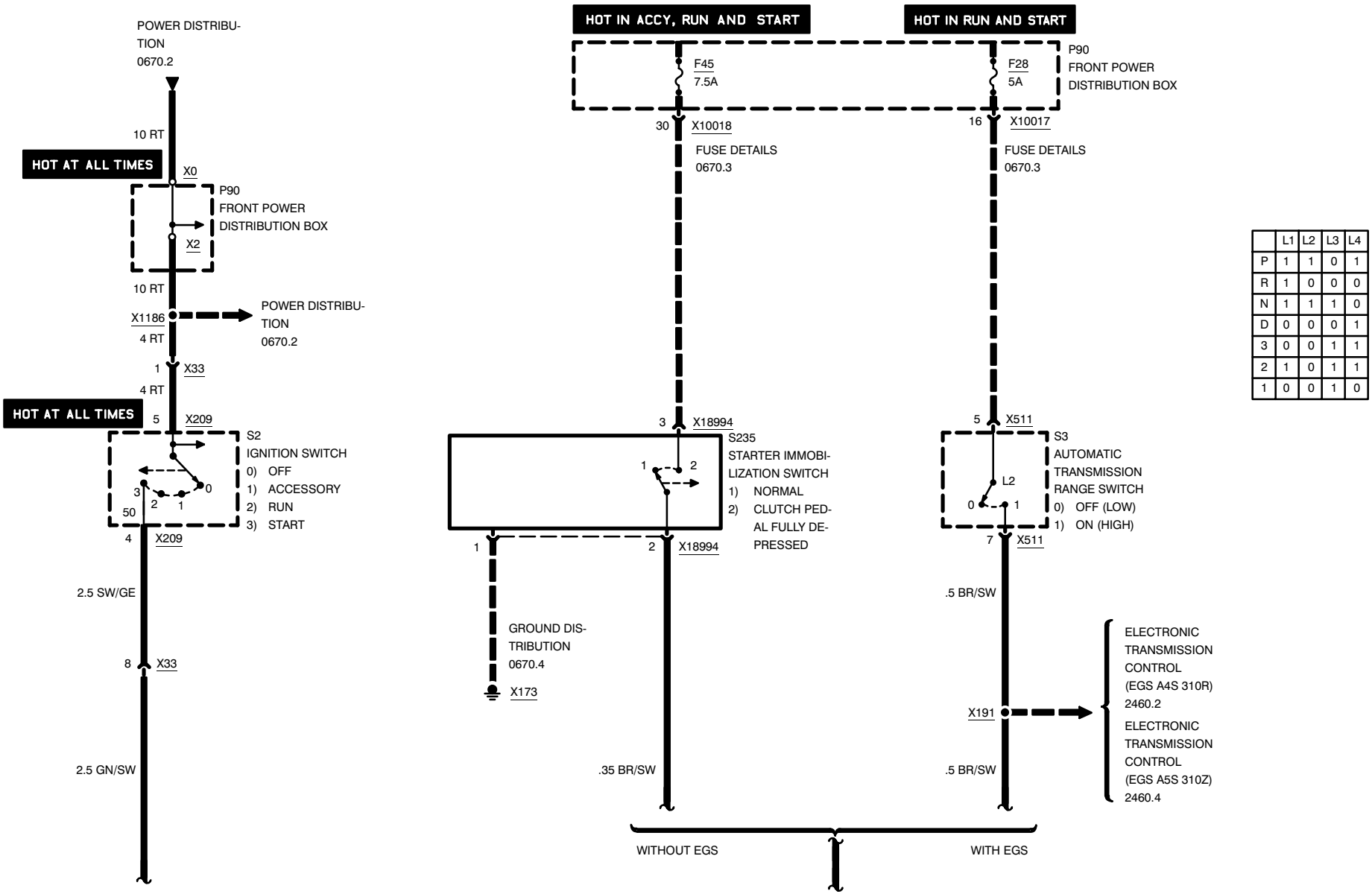
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



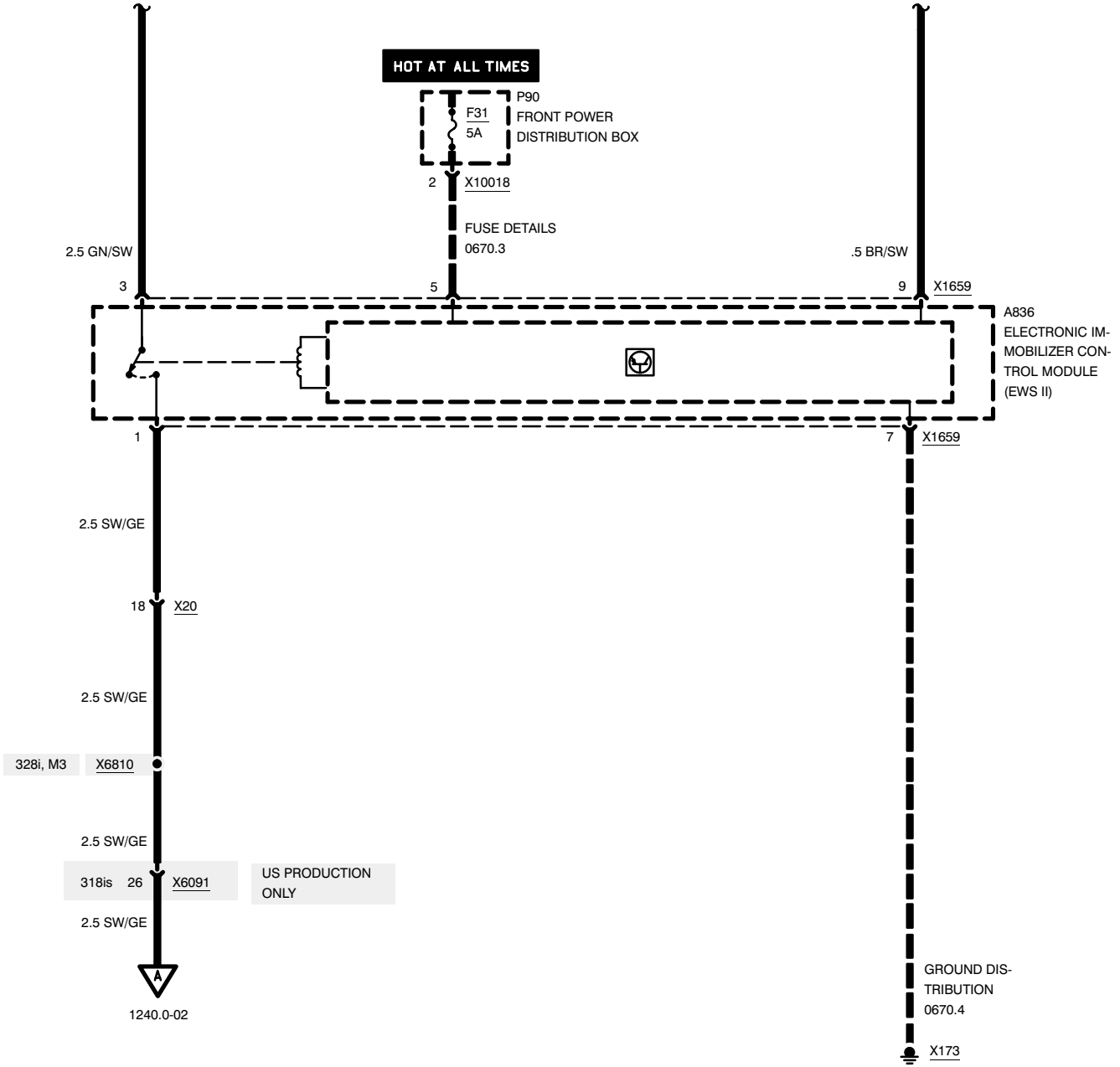
CHARGING SYSTEM

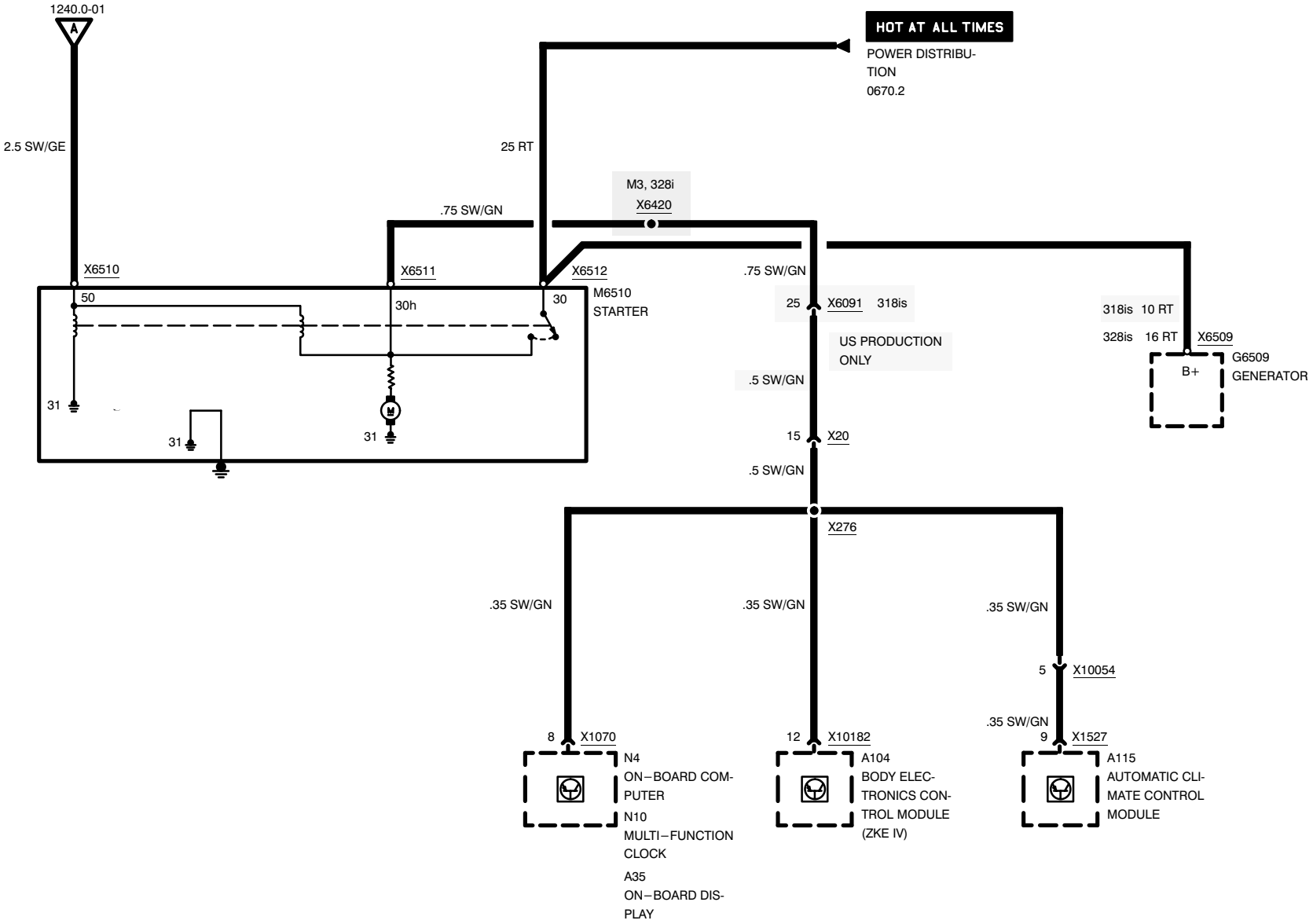


START



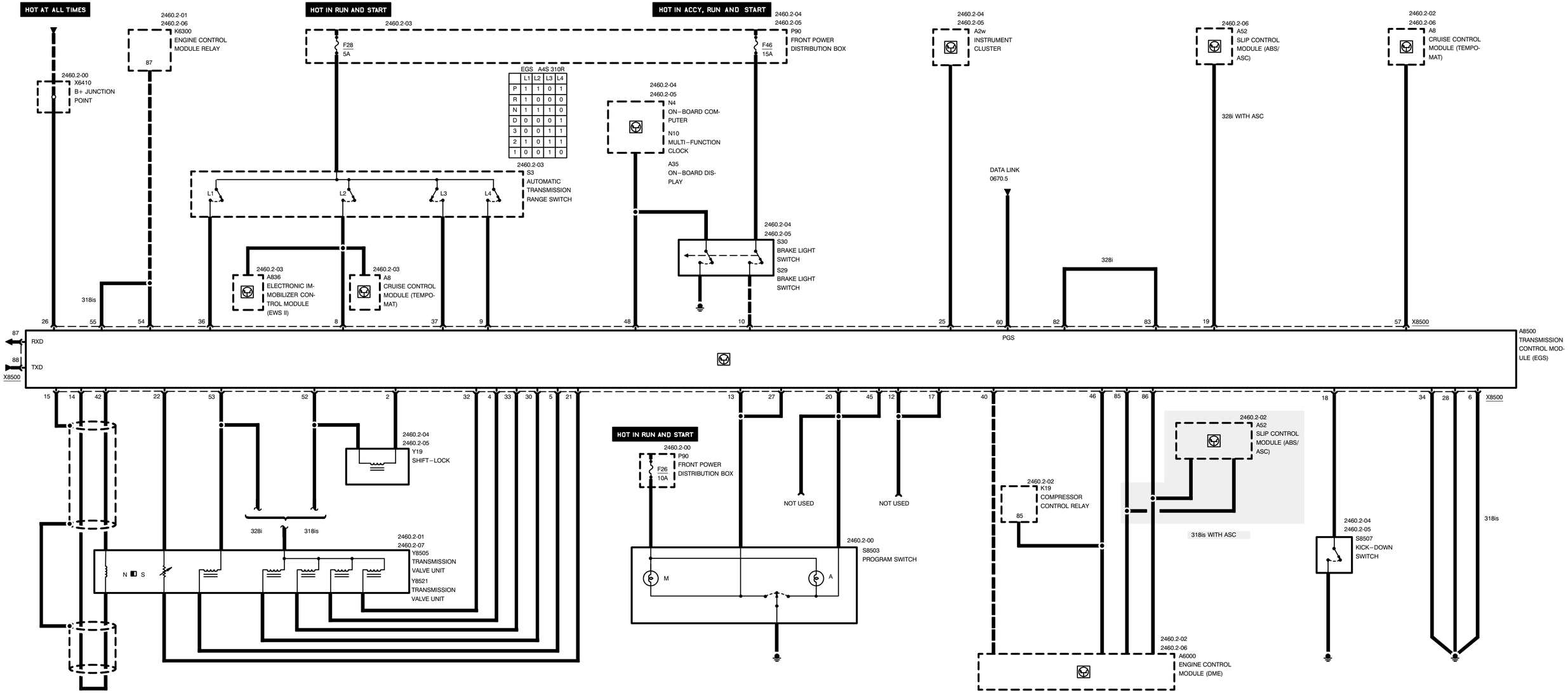
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

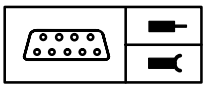

HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F31
5A
2
X10018
FUSE DETAILS
0670.3
2.5 GN/SW
3
5
.5 BR/SW
9
X1659
A836
ELECTRONIC IM-
MOBILIZER CON-
TROL MODULE
(EWS II)
1
7
X1659
2.5 SW/GE
18
X20
2.5 SW/GE
328i, M3
X6810
2.5 SW/GE
318is 26
X6091
US PRODUCTION
ONLY
2.5 SW/GE
A
1240.0-02
GROUND DIS-
TRIBUTION
0670.4
X173


1240.0-01
A
2.5 SW/GE
25 RT
HOT AT ALL TIMES
POWER DISTRIBU-
TION
0670.2
M3, 328i
X6420
.75 SW/GN
X6510
X6511
X6512
50
30h
30
M6510
STARTER
31
31
31
.75 SW/GN
25
X6091
318is
US PRODUCTION
ONLY
.5 SW/GN
15
X20
.5 SW/GN
X276
318is 10 RT
328is 16 RT
X6509
B+
G6509
GENERATOR
.35 SW/GN
.35 SW/GN
.35 SW/GN
5
X10054
.35 SW/GN
8
X1070
12
X10182
9
X1527
N4
ON–BOARD COM-
PUTER
N10
MULTI–FUNCTION
CLOCK
A35
ON–BOARD DIS-
PLAY
A104
BODY ELEC-
TRONICS CON-
TROL MODULE
(ZKE IV)
A115
AUTOMATIC CLI-
MATE CONTROL
MODULE

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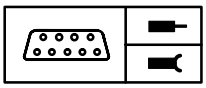


Pin Assignments

X8500

Pin	Type	Description/Function	Connection
177		Not used	
178	A	Shift-lock solenoid control	Shift-lock
179		Not used	
180	A	Band solenoid	Transmission valve unit (318is)
4	A	Solenoid valve 3 control (−)	Transmission valve unit (328i)
181	A	Hydraulic pressure regulator control (−)	Transmission valve unit
182	M	Ground	Ground point (318is)
183		Not used	
184	E	Gear range signal L2	Automatic transmission range switch
185	E	Gear range signal L4	Automatic transmission range switch
186	E	Brake pedal position	Brake light switch
187		Not used	
188	E	Sport mode signal	Not used
189	E	Manual mode signal	Program switch
190	E	Output speed (−)	Transmission valve unit
191	M	Ground for shield	Shield for speed sensor
192		Not used	
193	A	S-program indication	Not used
194	E	Kick-down signal	Kick-down switch
195	E	ASC signal	ASC module (328i)
196	E	Automatic mode signal	Program switch
197	E	Oil temperature signal (−)	Transmission valve unit
198	E	Oil temperature signal (+)	Transmission valve unit
199		Not used	
200		Not used	
201	A	Fault indicator signal	Instrument cluster
202	E	Battery voltage	B+ Jump start junction point
203	A	M-program indication	Program switch
204	M	Ground	Ground point
205		Not used	

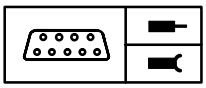
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
206	A	Solenoid valve 1 control (−)	Transmission valve unit
207		Not used	
208	A	Torque converter clutch solenoid valve control (−)	Transmission valve unit
209	A	Solenoid valve 2 control (−)	Transmission valve unit
210	M	Ground	Ground point
211		Not used	
212	E	Gear range signal L1	Automatic transmission range switch
213	E	Gear range signal L3	Automatic transmission range switch
214		Not used	
215		Not used	
216	E	RPM speed signal TD	Engine control module (318is)
217		Not used	
218	E	Output speed (+)	Transmission valve unit
219		Not used	
220		Not used	
221	A	A-program indication	Program switch
222	E	A/C compressor-ON-signal	Engine control module (318is)
223		Not used	
224	E	Brake switch test signal	Brake light switch
225		Not used	
226		Not used	
227		Not used	
228	A	Voltage supply	Shift-lock/Transmission valve unit (318is)
52	A	Voltage supply	Shift-lock (328i)
229	E	Voltage pressure regulator	Transmission valve unit
230	E	Voltage supply terminal 87	Engine control module relay
231	E	Voltage supply terminal 87	Engine control module relay (318is)
232		Not used	
233	E	Cruise control signal	Cruise control module
234		Not used	
235		Not used	

E = Input, A = Output, M = Ground



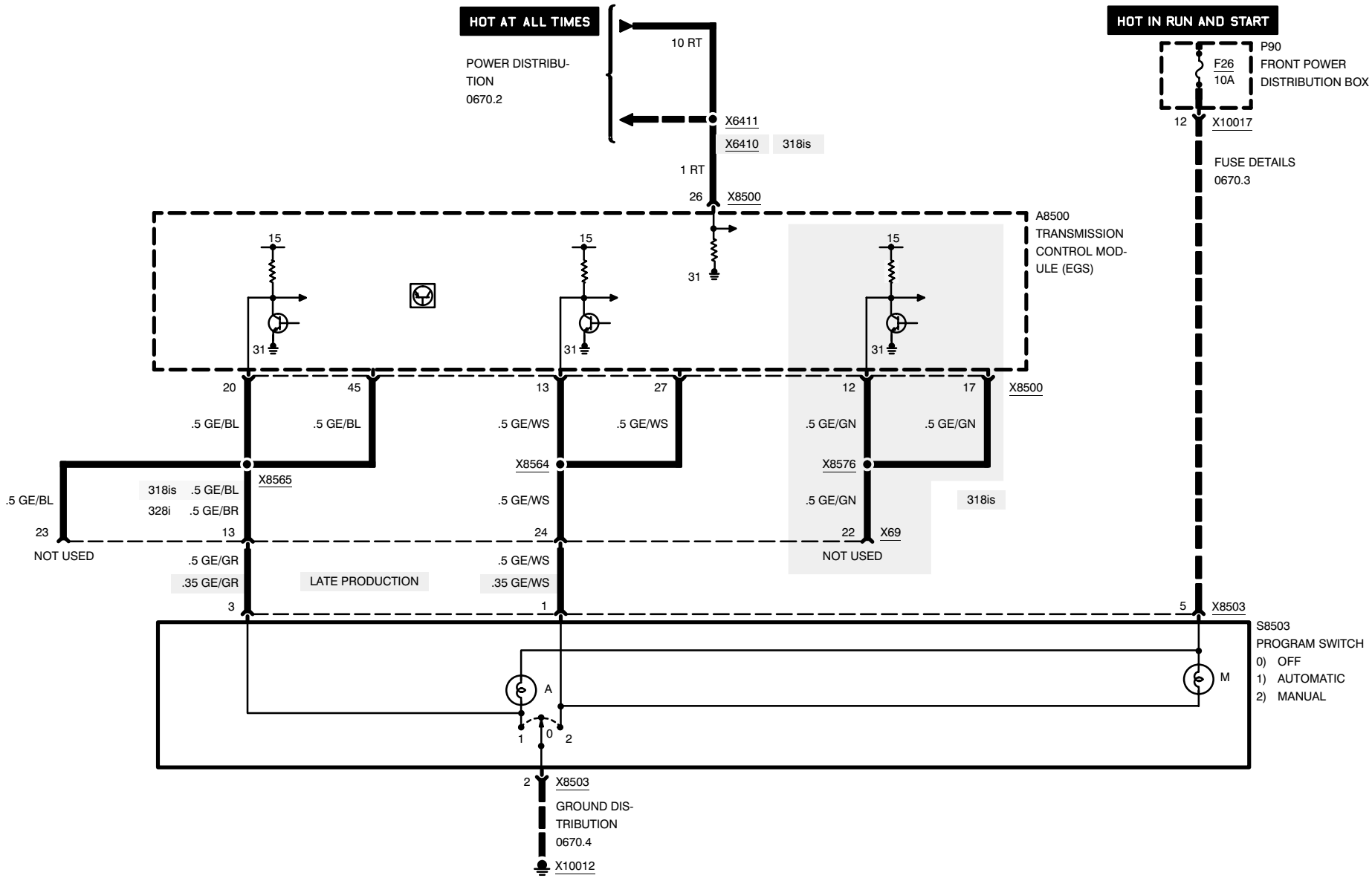
Pin Assignments

Pin	Type	Description/Function	Connection
236	E	Programming voltage	Data link connector
237		Not used	
238		Not used	
239		Not used	
240		Not used	
241		Not used	
242		Not used	
243		Not used	
244		Not used	
245		Not used	
246		Not used	
247		Not used	
248		Not used	
249		Not used	
250		Not used	
251		Not used	
252		Not used	
253		Not used	
254		Not used	
255		Not used	
256		Not used	
257		Not used	
258	E/A	Jumper plug	(328i)
259	E/A	Jumper plug	(328i)
260		Not used	
261	E/A	CAN LOW	Engine control module
262	E/A	CAN HIGH	Engine control module
263	A	RxD diagnostic data link	Data link connector (318is)
264	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

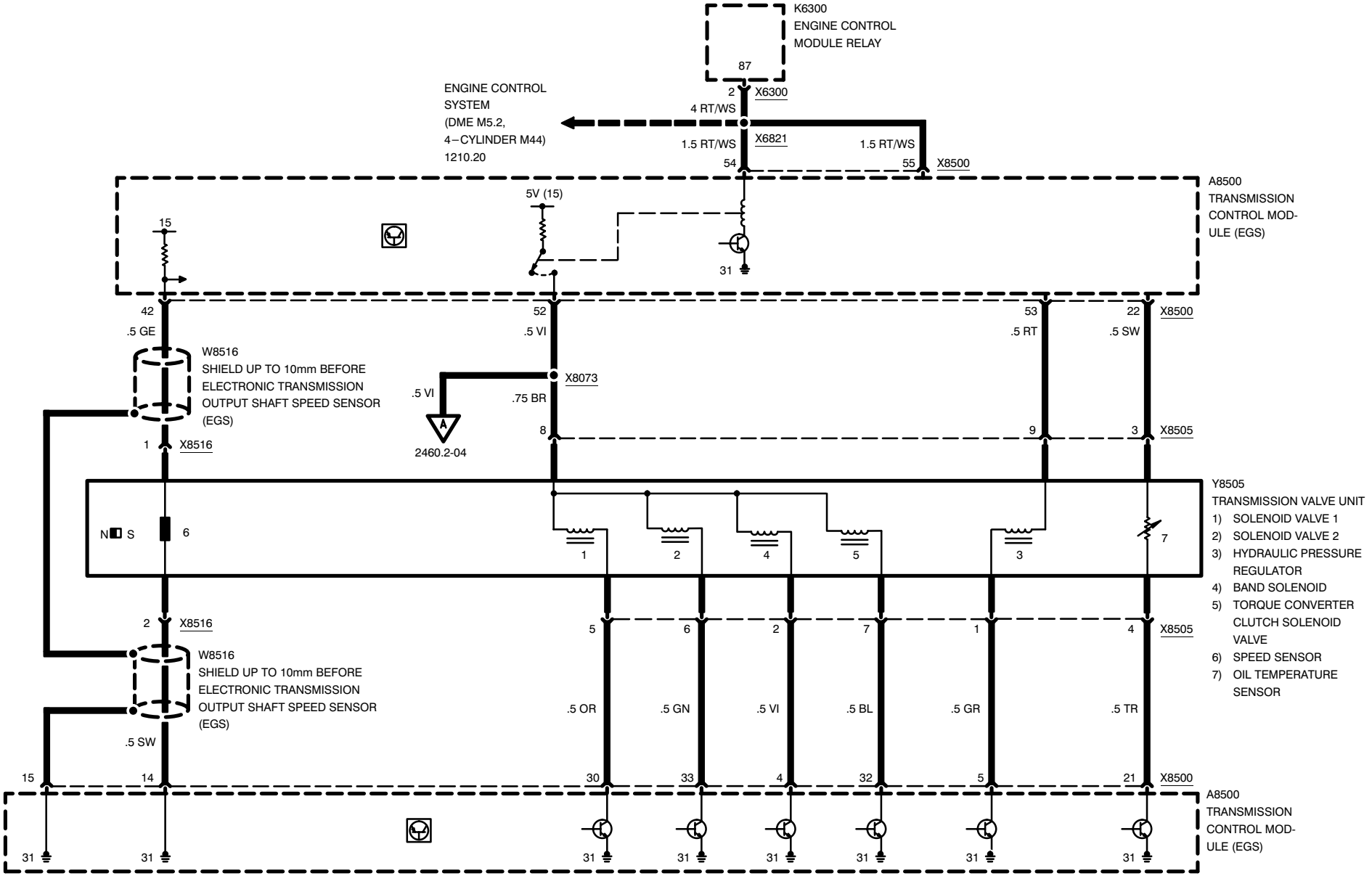
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

POWER, PROGRAM SWITCH

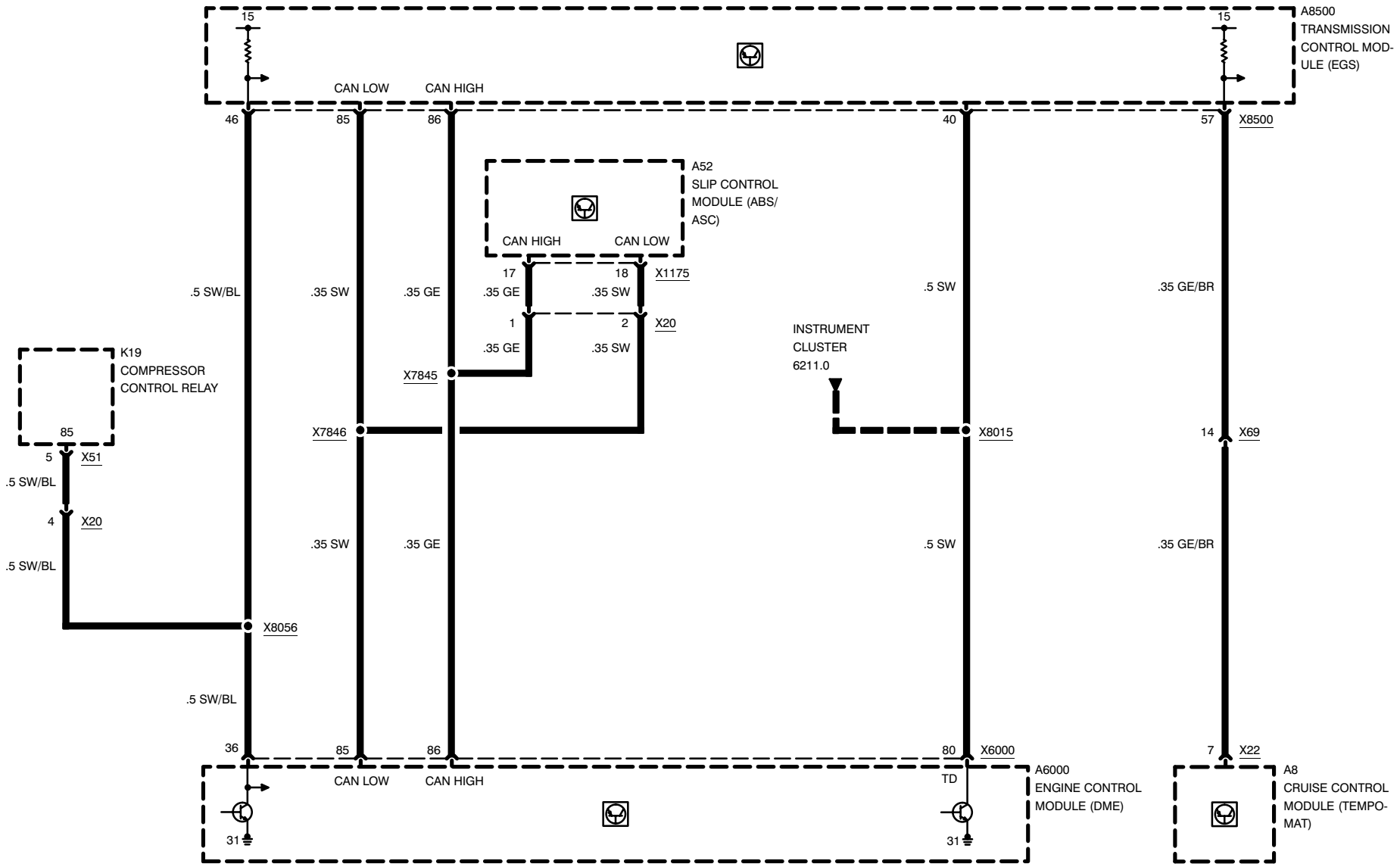


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is

POWER

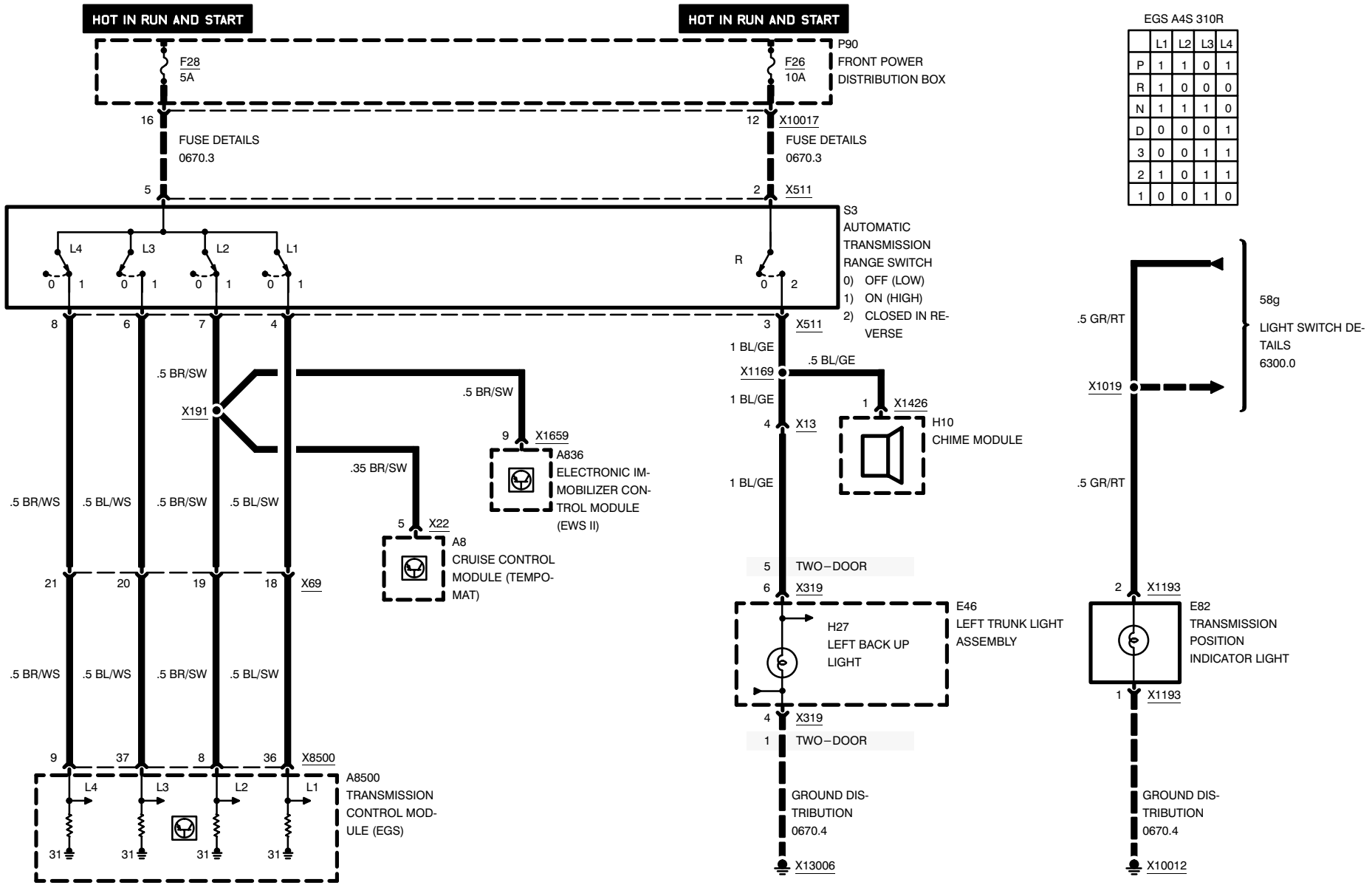


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is



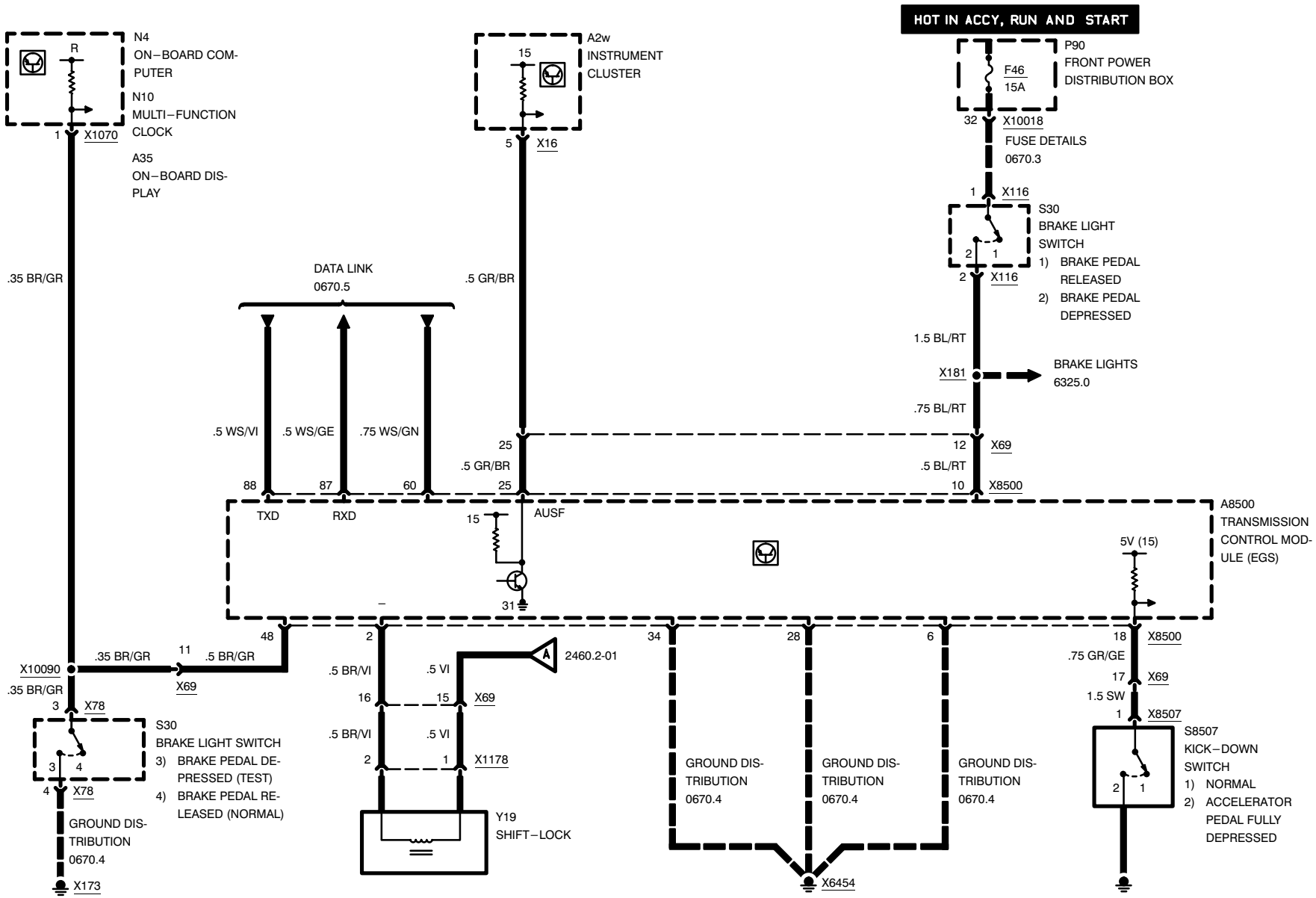
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR SELECTOR SWITCH



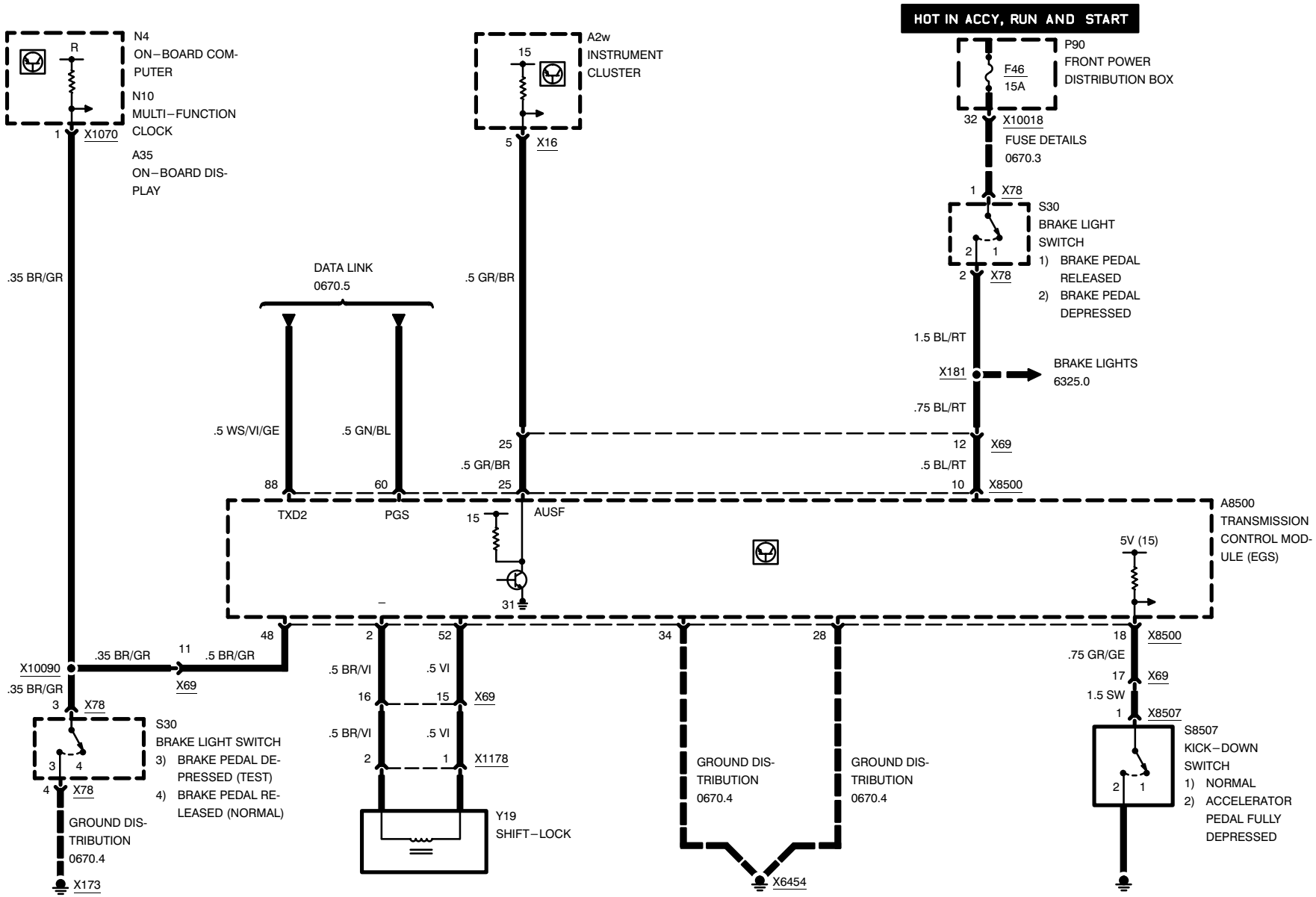
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH

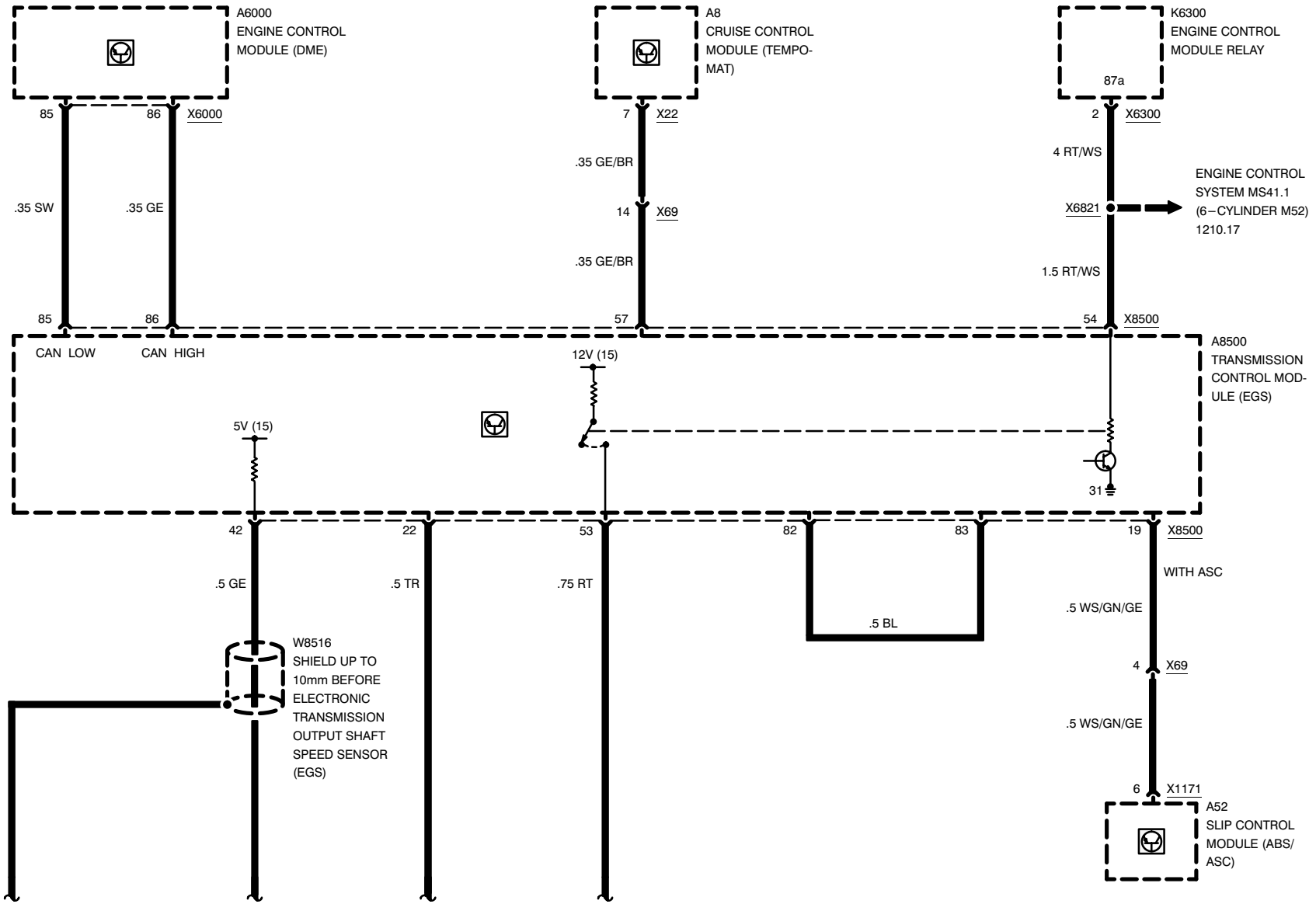


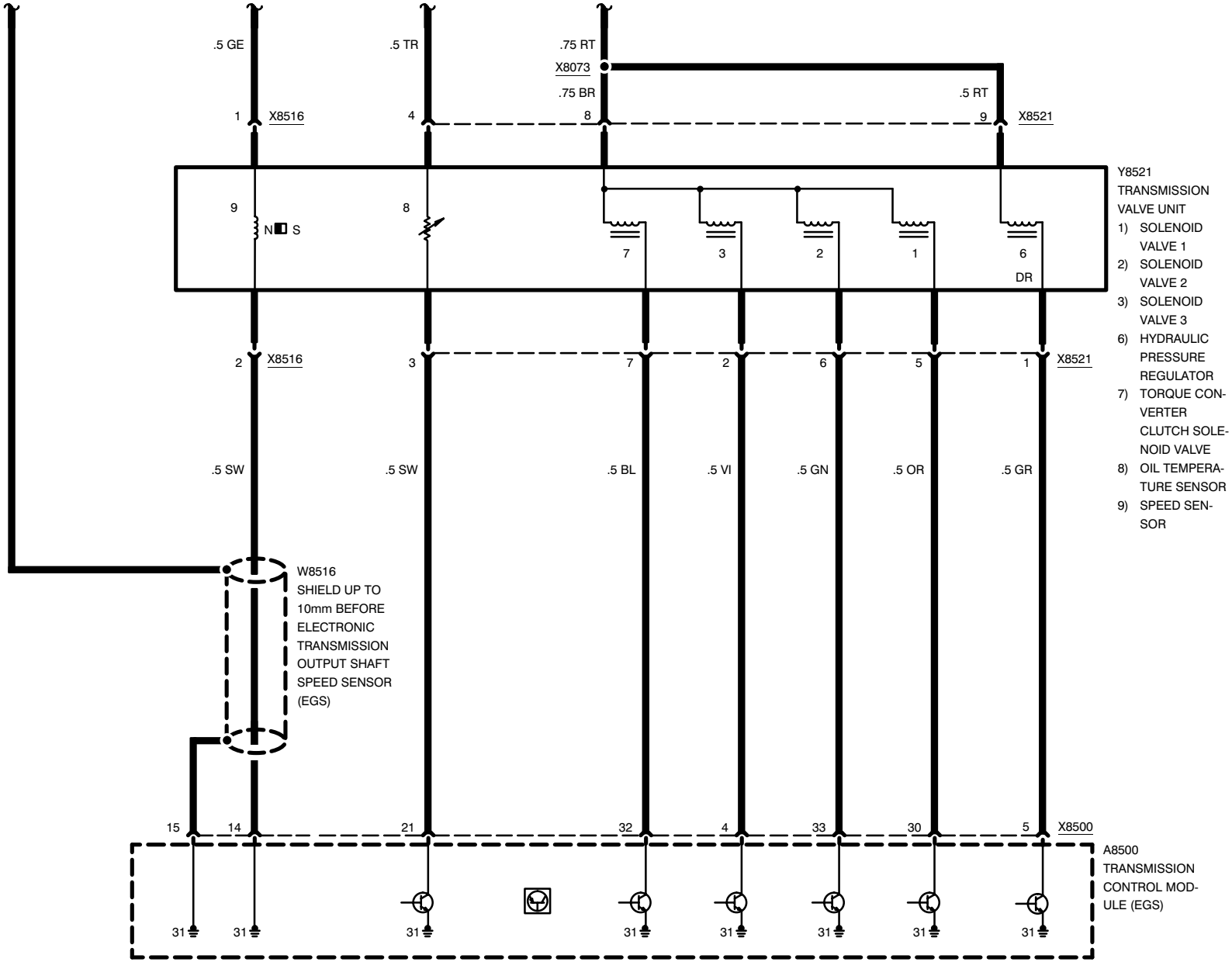
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 328i

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH

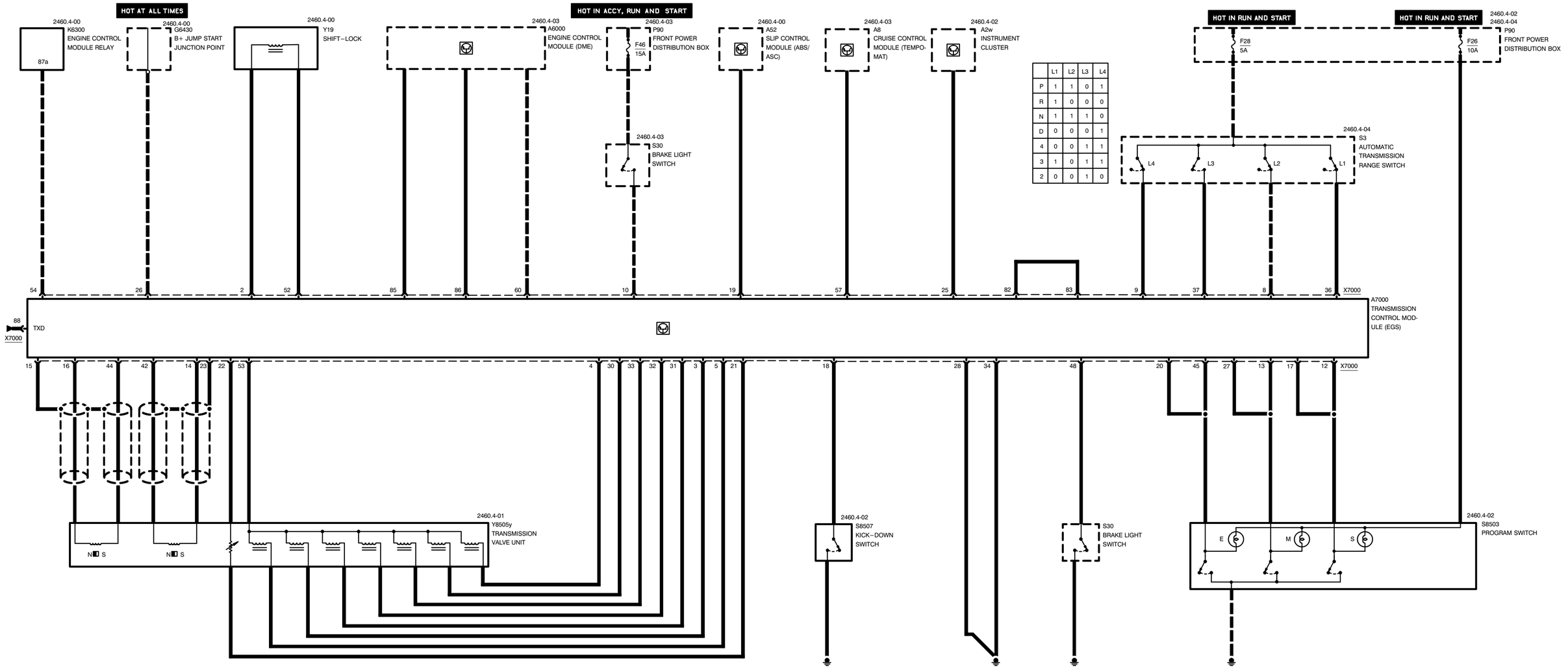


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 328i

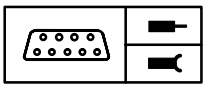



.5 GE
.5 TR
.75 RT
X8073
.75 BR
.5 RT
1
X8516
4
8
9
X8521
9
N
S
8
7
3
2
1
6
DR
Y8521
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
2
X8516
3
7
2
6
5
1
X8521
.5 SW
.5 SW
.5 BL
.5 VI
.5 GN
.5 OR
.5 GR
W8516
SHIELD UP TO 10mm BEFORE ELECTRONIC TRANSMISSION OUTPUT SHAFT SPEED SENSOR (EGS)
15
14
21
32
4
33
30
5
X8500
A8500
TRANSMISSION CONTROL MODULE (EGS)
31
31
31
31
31
31
31
31

03/98 2460.4 1997
03/98 2460.4 1997



	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

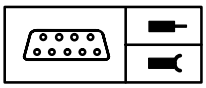


Pin Assignments

X7000

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Shift-lock	Shift-lock
3	A	Solenoid valve 5	Transmission valve unit
4	A	Torque converter clutch solenoid valve	Transmission valve unit
5	A	Hydraulic pressure regulator	Transmission valve unit
6		Not used	
7		Not used	
8		Gear range signal L2	Automatic transmission range switch
9		Gear range signal L4	Automatic transmission range switch
10	E	Brake pedal position	Brake light switch
11		Not used	
12	E	S-program indication	Program switch
13	E	M-program indication	Program switch
14	E	Speed sensor	Transmission valve unit
15	M	Shield speed sensor	Shield
16	A	Speed sensor n-turbine	Transmission valve unit
17	E	S-program	Program switch
18	E	Kick-down signal	Kick-down switch
19	E	ASC signal	ASC module
20	E	E-program	Program switch
21	M	Ground oil temperature sensor	Transmission valve unit
22	E	Oil temperature sensor	Transmission valve unit
23	M	Shield speed sensor	Shield
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	Jump start junction point
27	E	M-program	Program switch
28	M	Ground, electronics	Ground point
29		Not used	
30	A	Solenoid valve 1	Transmission valve unit

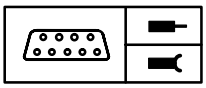
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Solenoid valve 4	Transmission valve unit
32	A	Solenoid valve 3	Transmission valve unit
33	A	Solenoid valve 2	Transmission valve unit
34	M	Ground	Ground point
35		Not used	
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42	A	Speed sensor n-ab (+)	Transmission valve unit
43		Not used	
44	E	Speed sensor n-turbine	Transmission valve unit
45	E	E-program indication	Program switch
46		Not used	
47		Not used	
48	E	Brake switch test signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52	A	Voltage supply	Shift-lock
53	A	Voltage supply for solenoid valves	Transmission valve unit
54	E	Voltage supply	DME relay
55		Not used	
56		Not used	
57	E	Cruise control signal	Cruise control module
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	

E = Input, A = Output, M = Ground

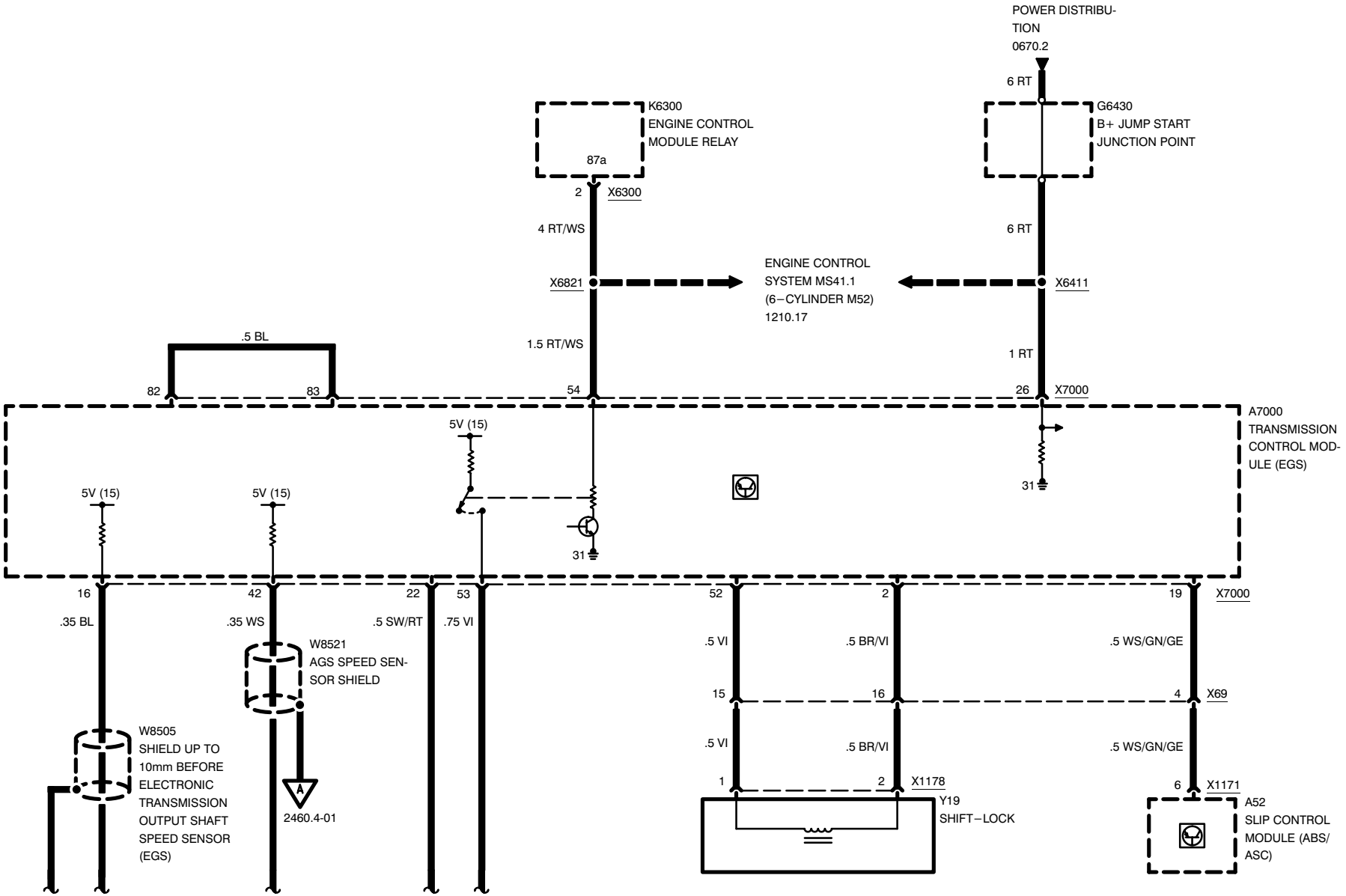


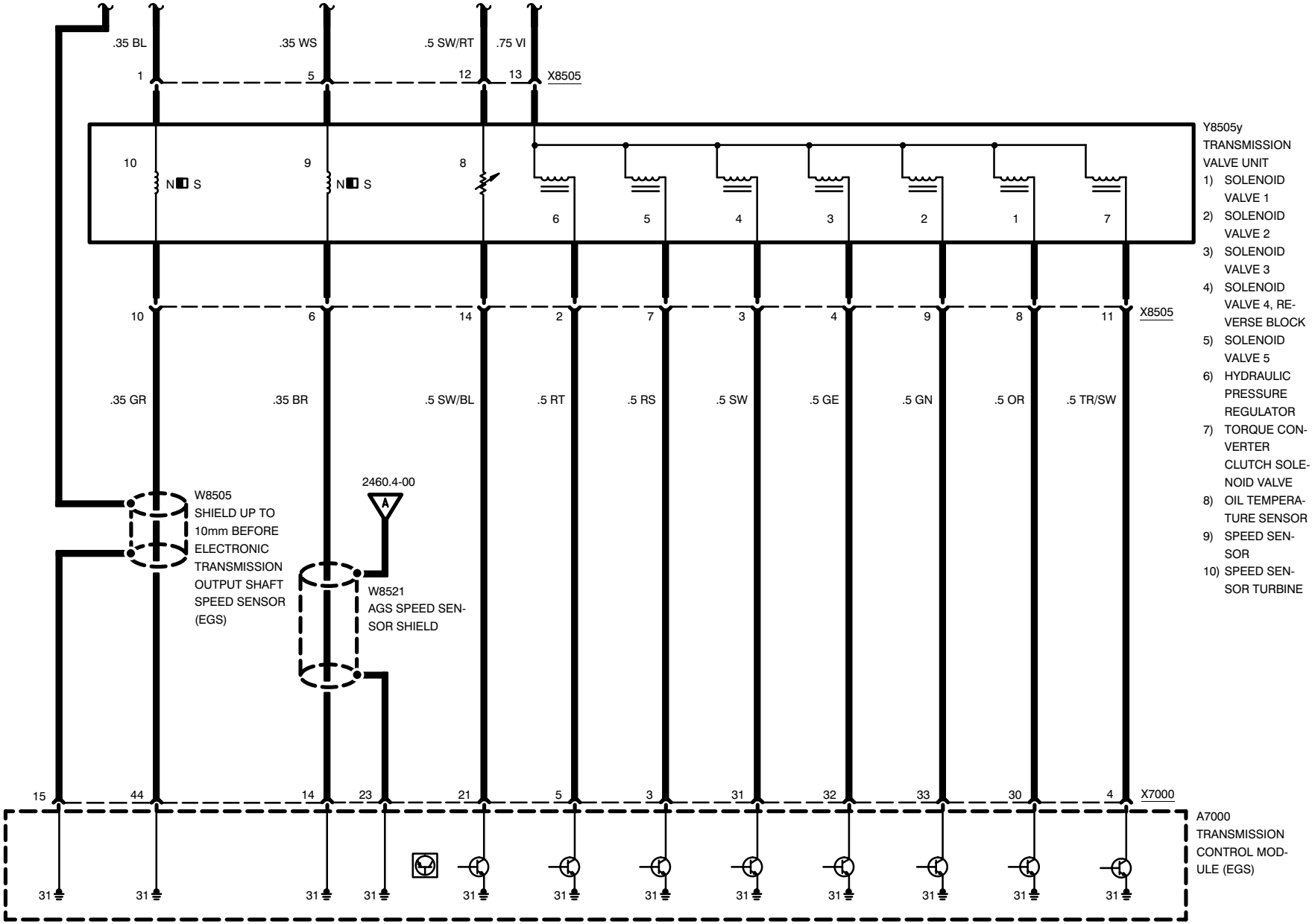
Pin Assignments

Pin	Type	Description/Function	Connection
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper plug	
83	E/A	Jumper plug	
84		Not used	
85	E/A	CAN LOW	Engine control module
86	E/A	CAN HIGH	Engine control module
87		Not used	
88	E/A	TxD diagnostic data link	Data link connector

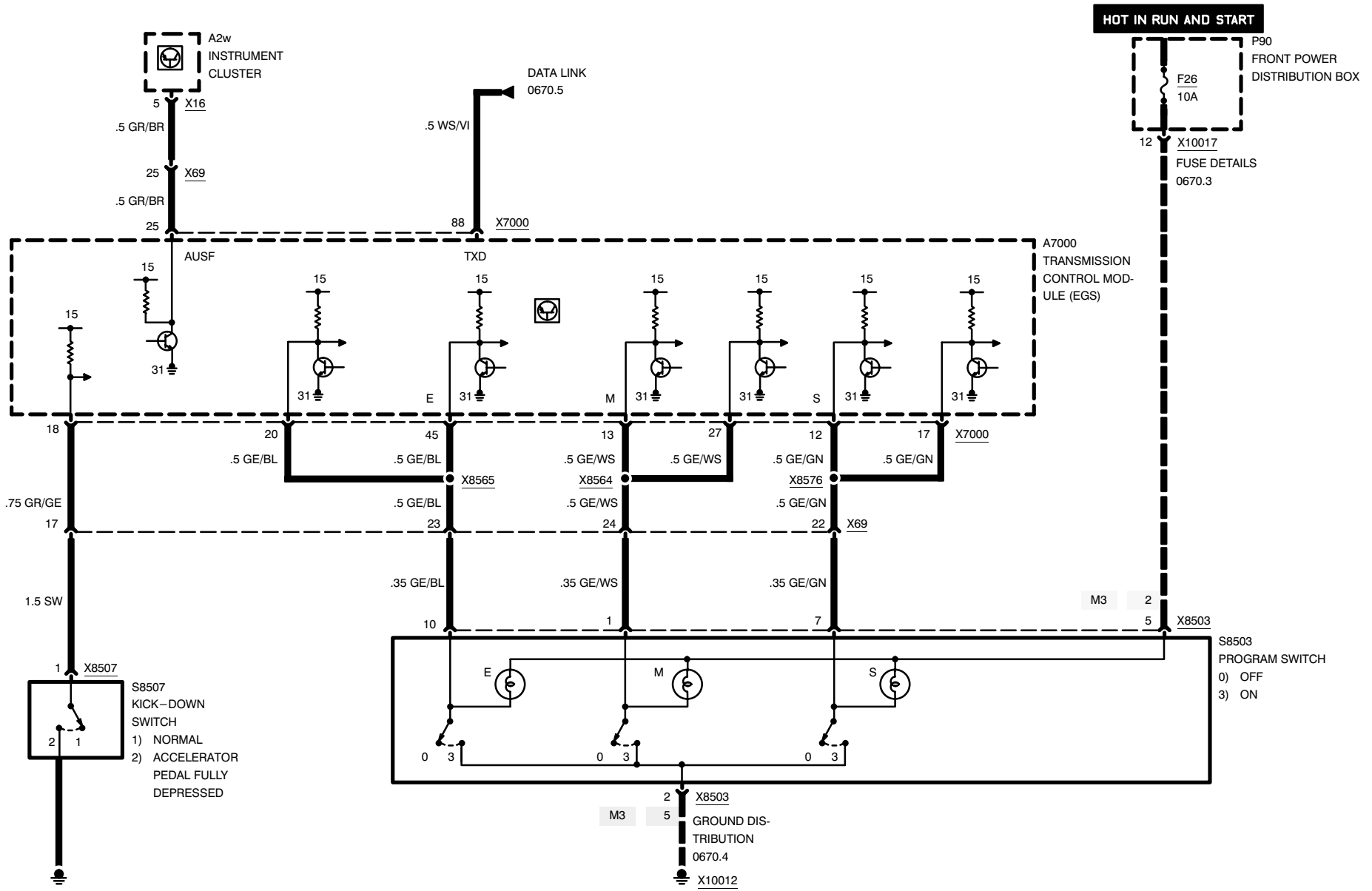
E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

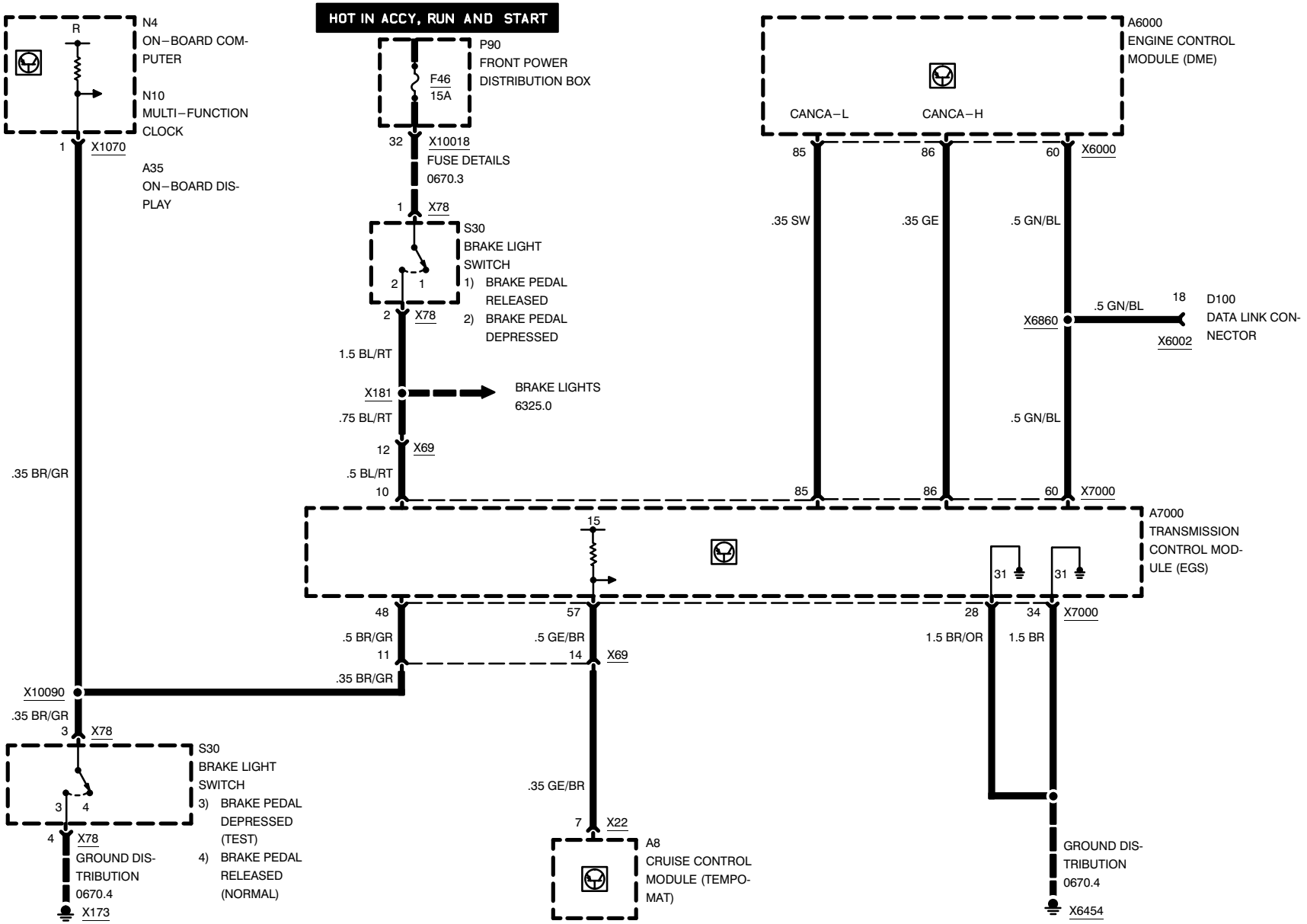



.35 BL
.35 WS
.5 SW/RT
.75 VI
1
5
12
13
X8505
10
9
8
N
S
6
5
4
3
2
1
7
Y8505y
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
4) SOLENOID VALVE 4, REVERSE BLOCK
5) SOLENOID VALVE 5
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
10) SPEED SENSOR TURBINE
10
6
14
2
7
3
4
9
8
11
X8505
.35 GR
.35 BR
.5 SW/BL
.5 RT
.5 RS
.5 SW
.5 GE
.5 GN
.5 OR
.5 TR/SW
W8505
SHIELD UP TO 10mm BEFORE ELECTRONIC TRANSMISSION OUTPUT SHAFT SPEED SENSOR (EGS)
2460.4-00
A
W8521
AGS SPEED SENSOR SHIELD
15
44
14
23
21
5
3
31
32
33
30
4
X7000
A7000
TRANSMISSION CONTROL MODULE (EGS)
31

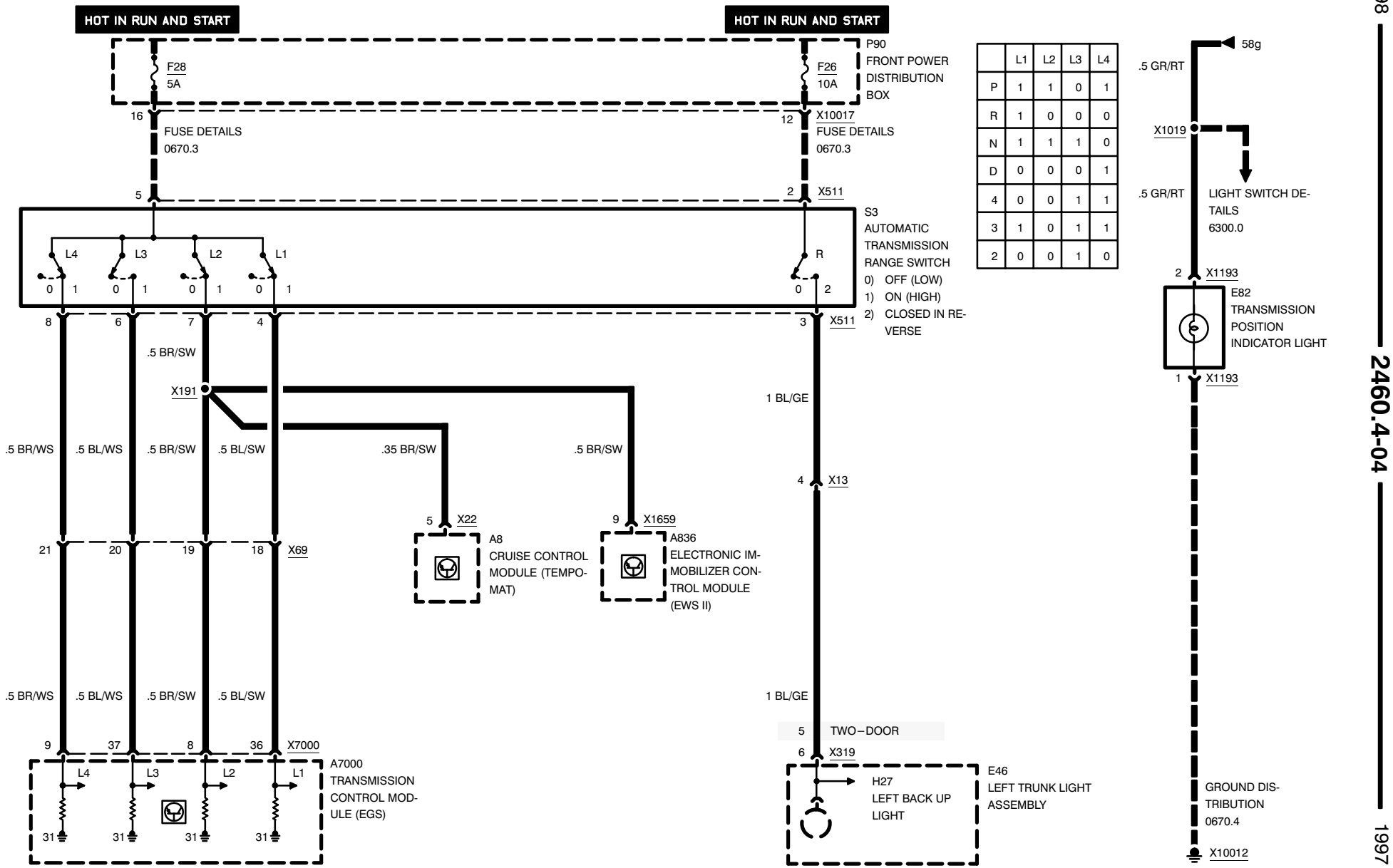
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

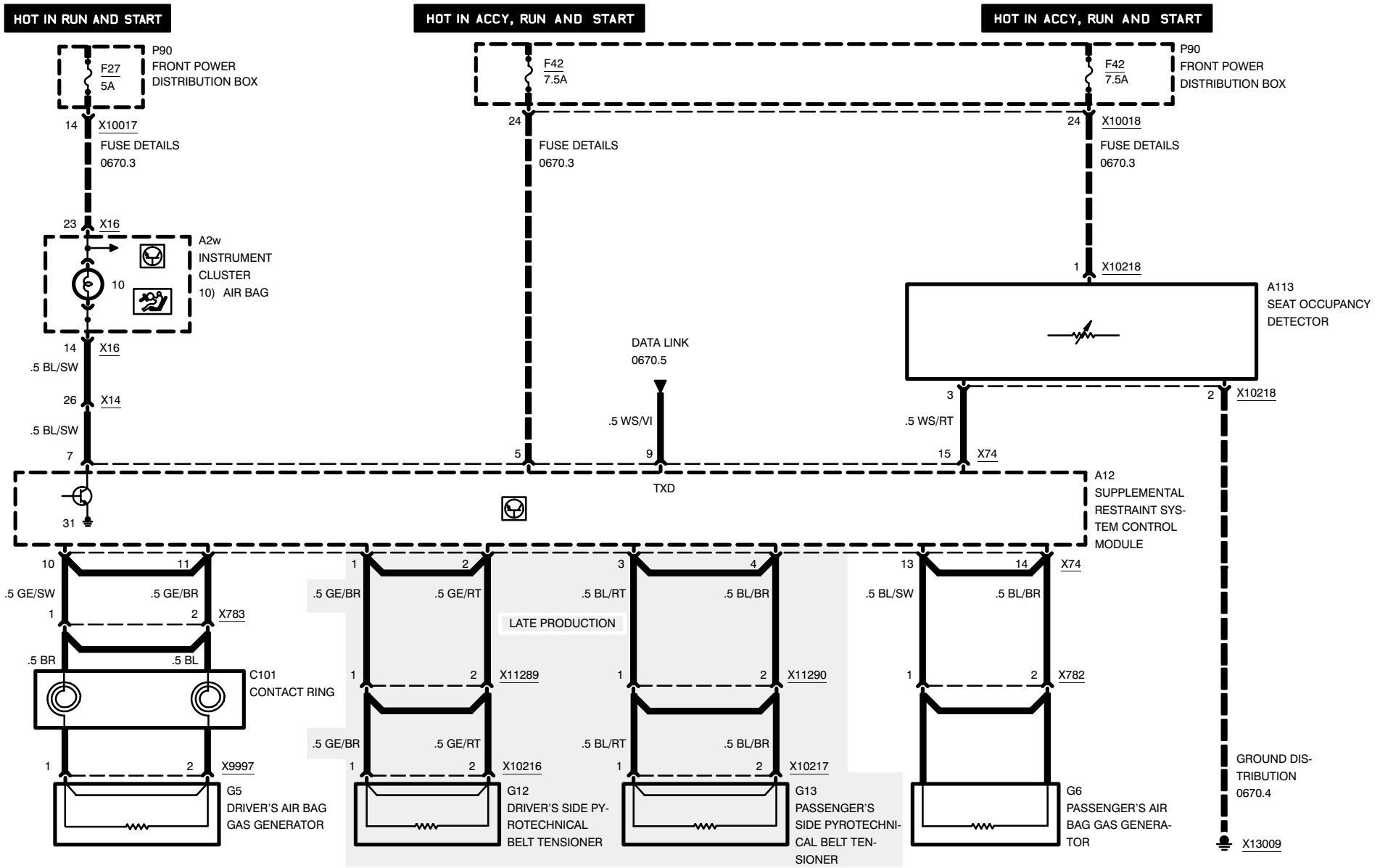


ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

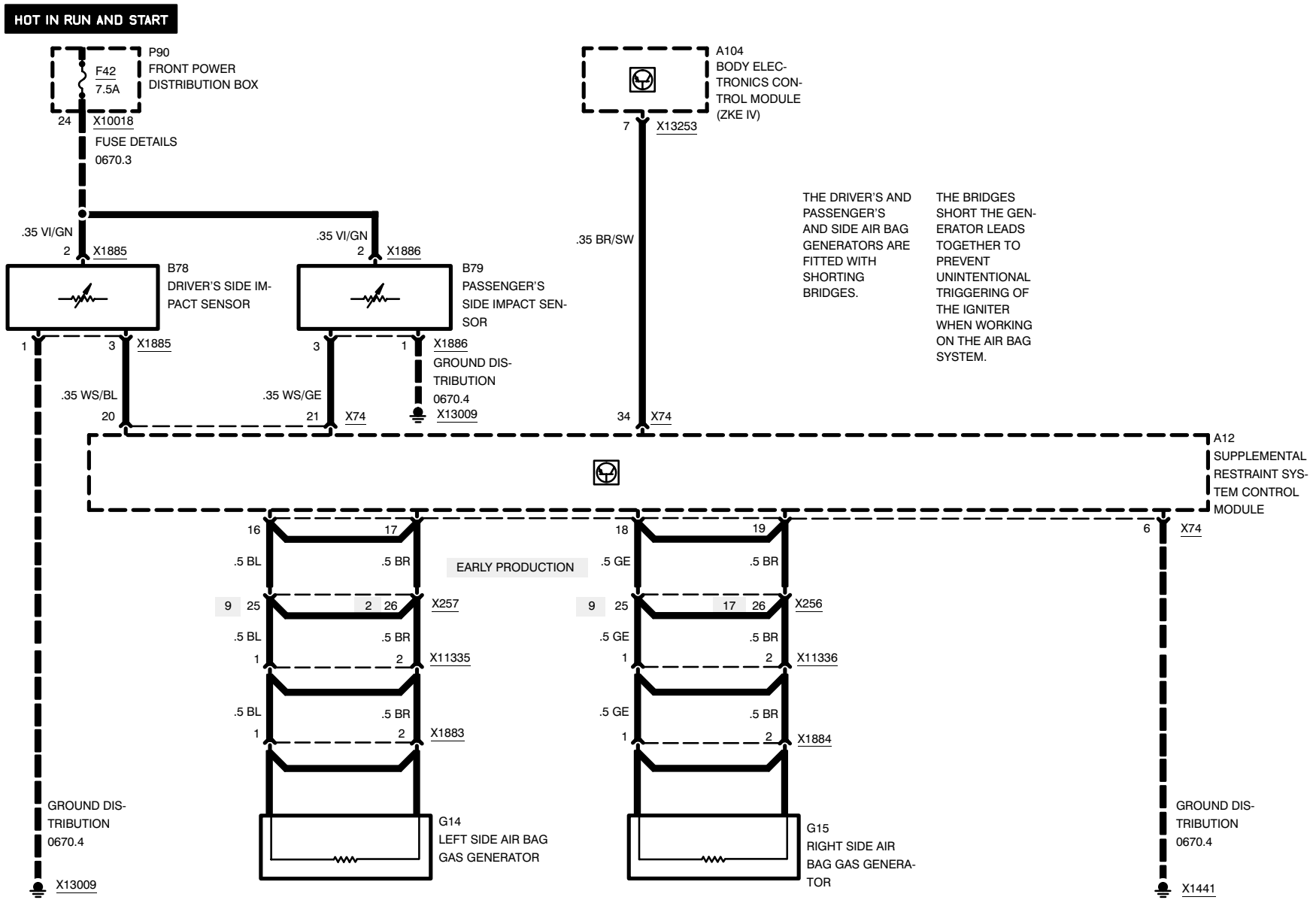


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

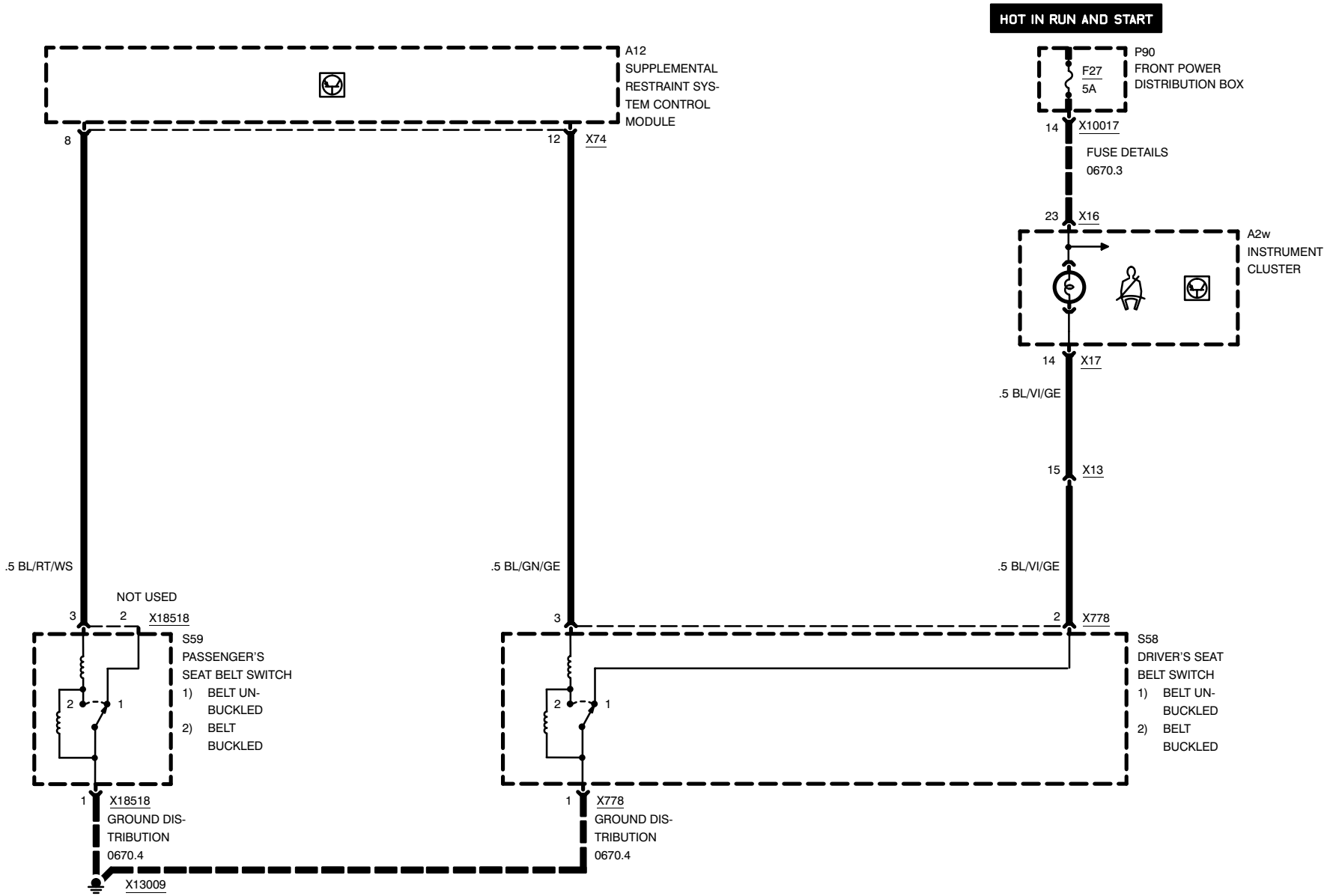


SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

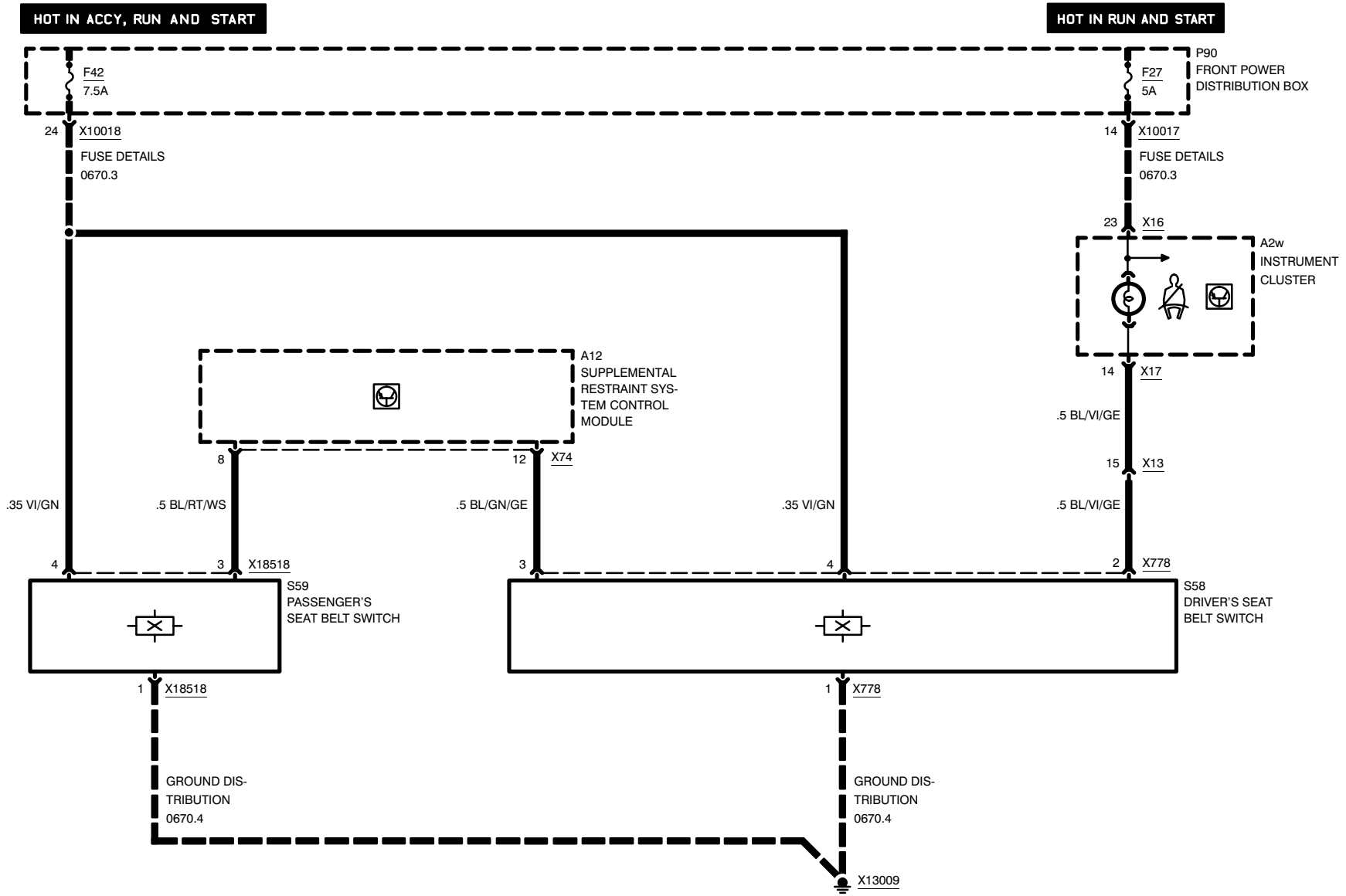
EARLY PRODUCTION



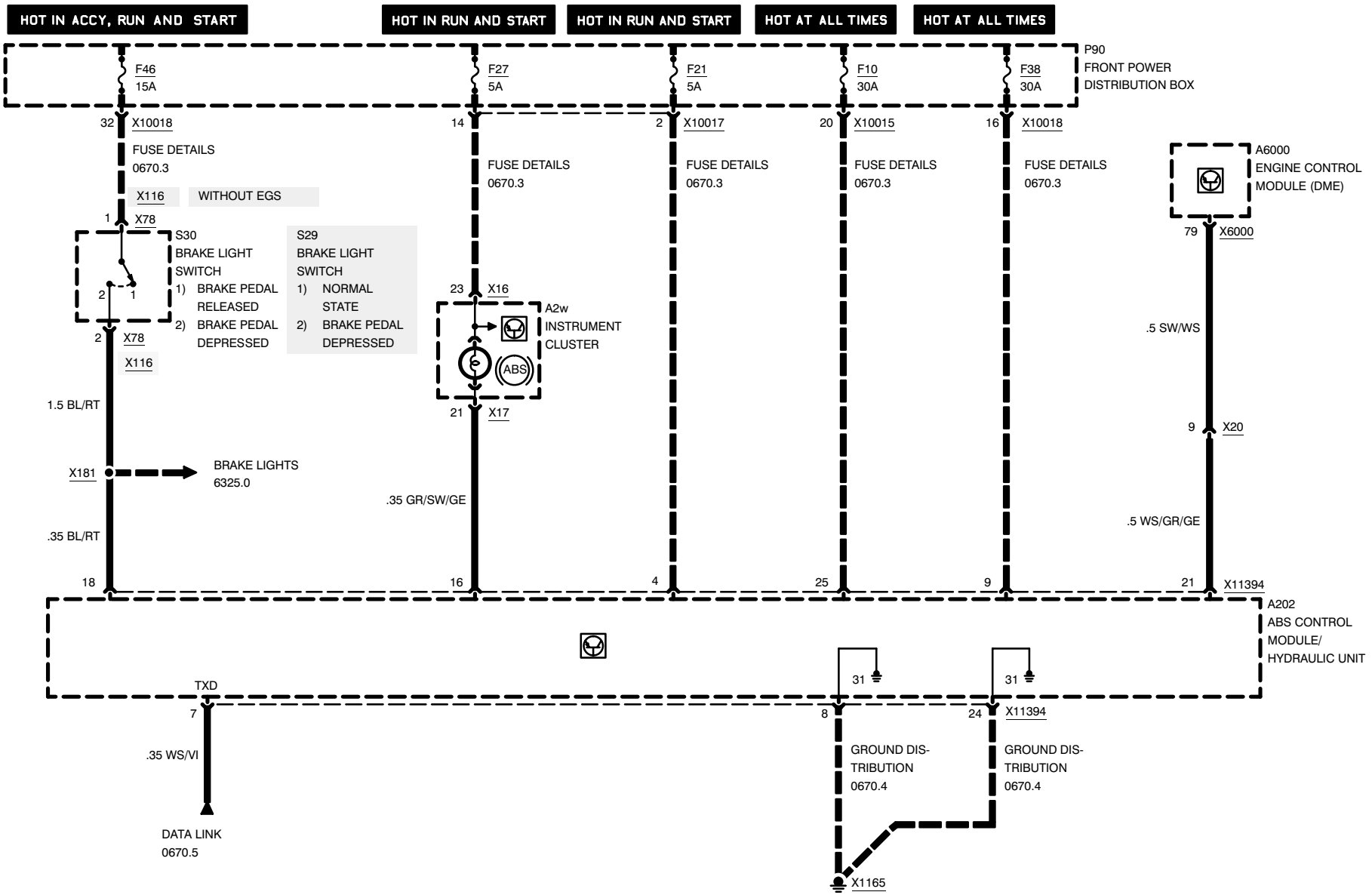
BMW 3

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

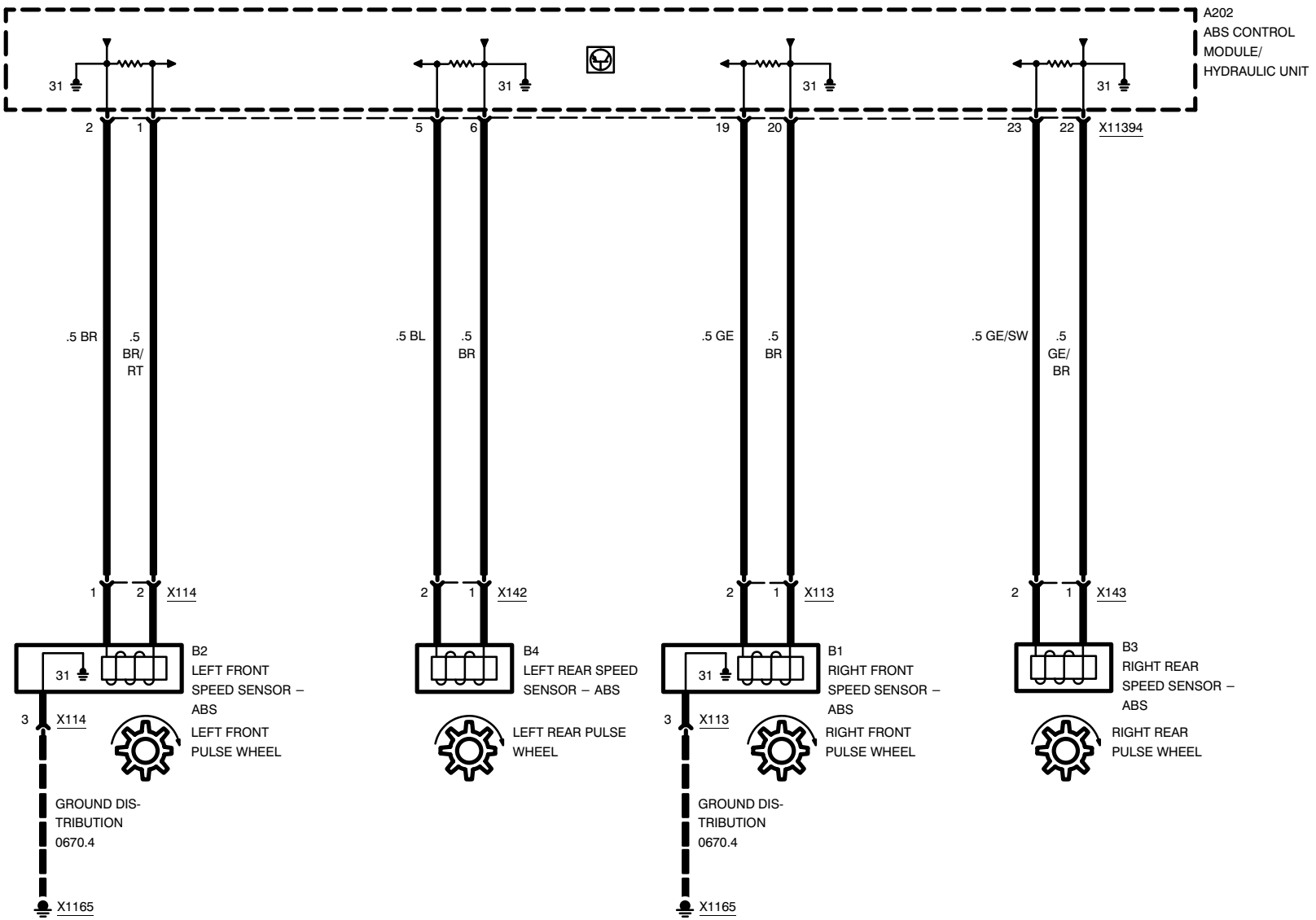
LATE PRODUCTION



SLIP CONTROL (ABS)

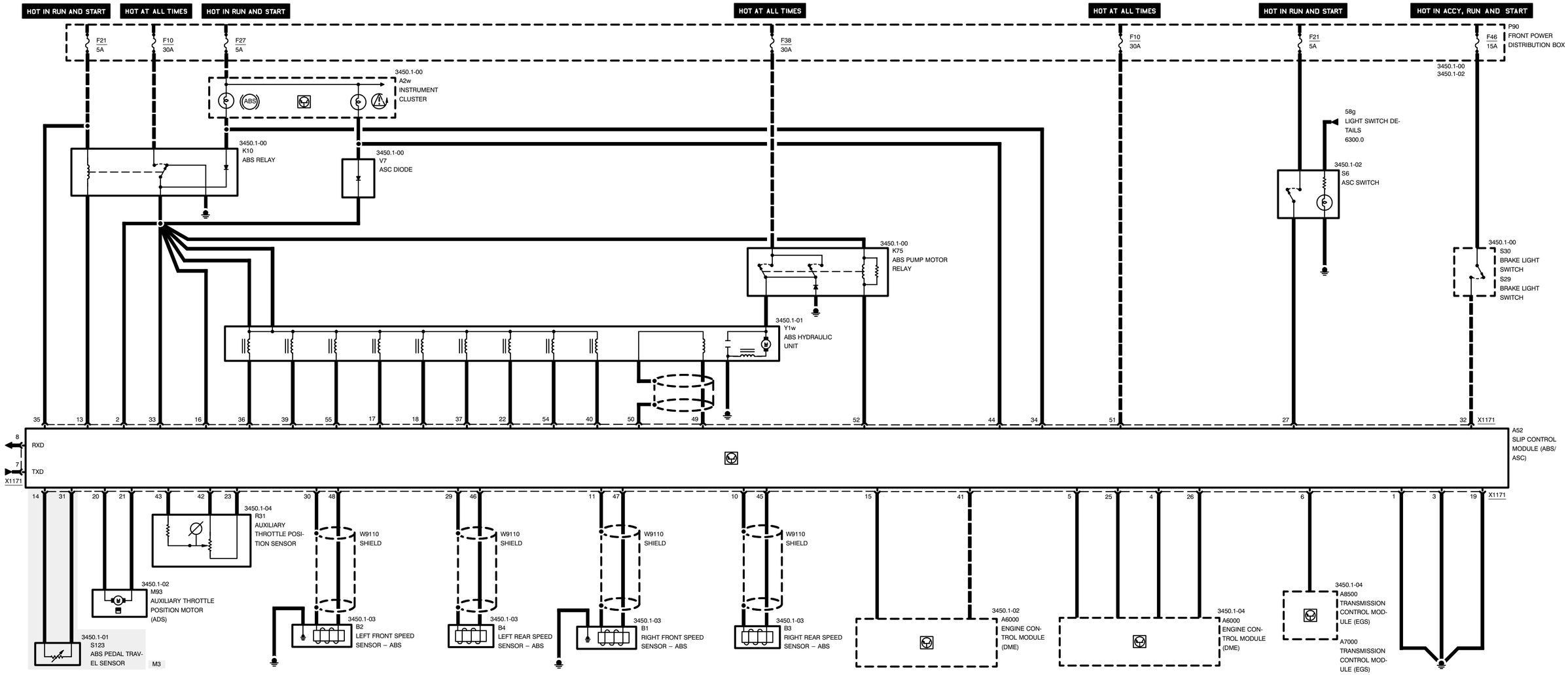


SLIP CONTROL (ABS)



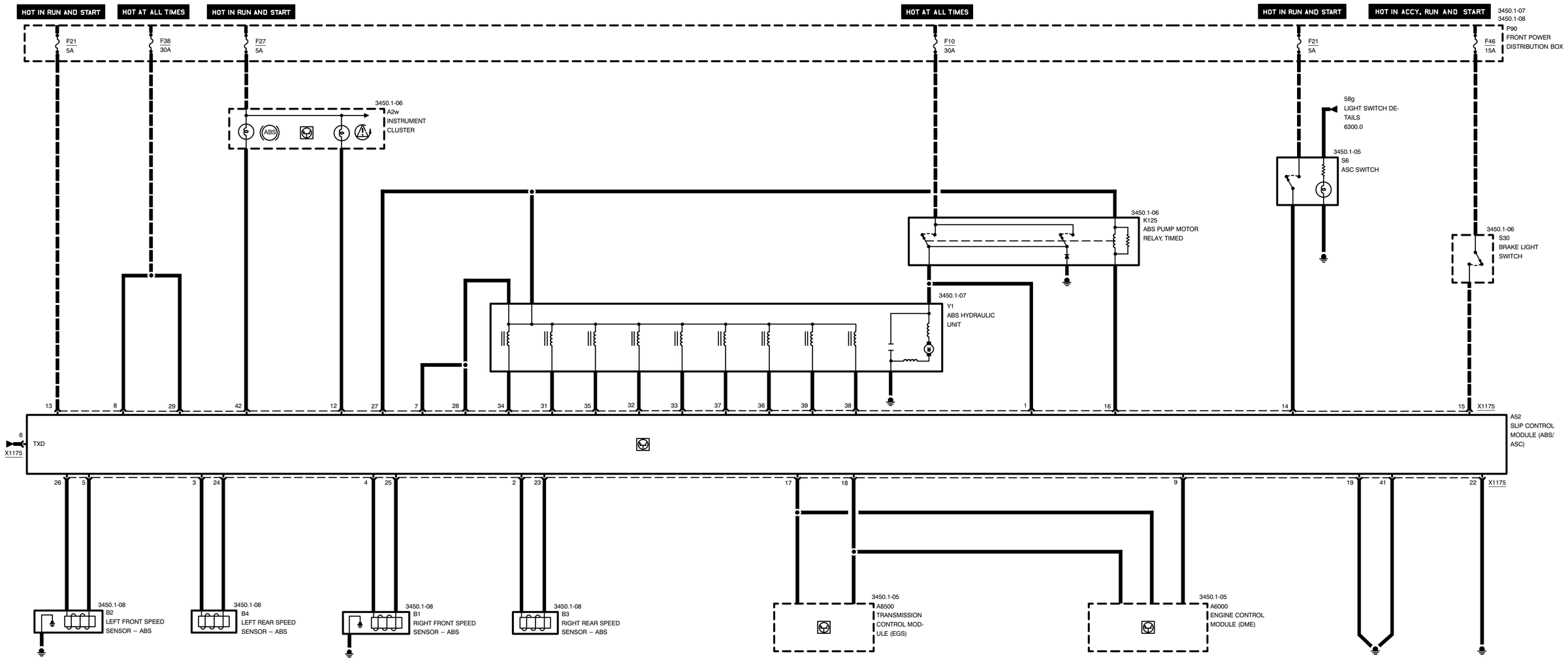
03/98 — 3450.1a — 1997
03/98 — 3450.1a — 1997

328i, M3



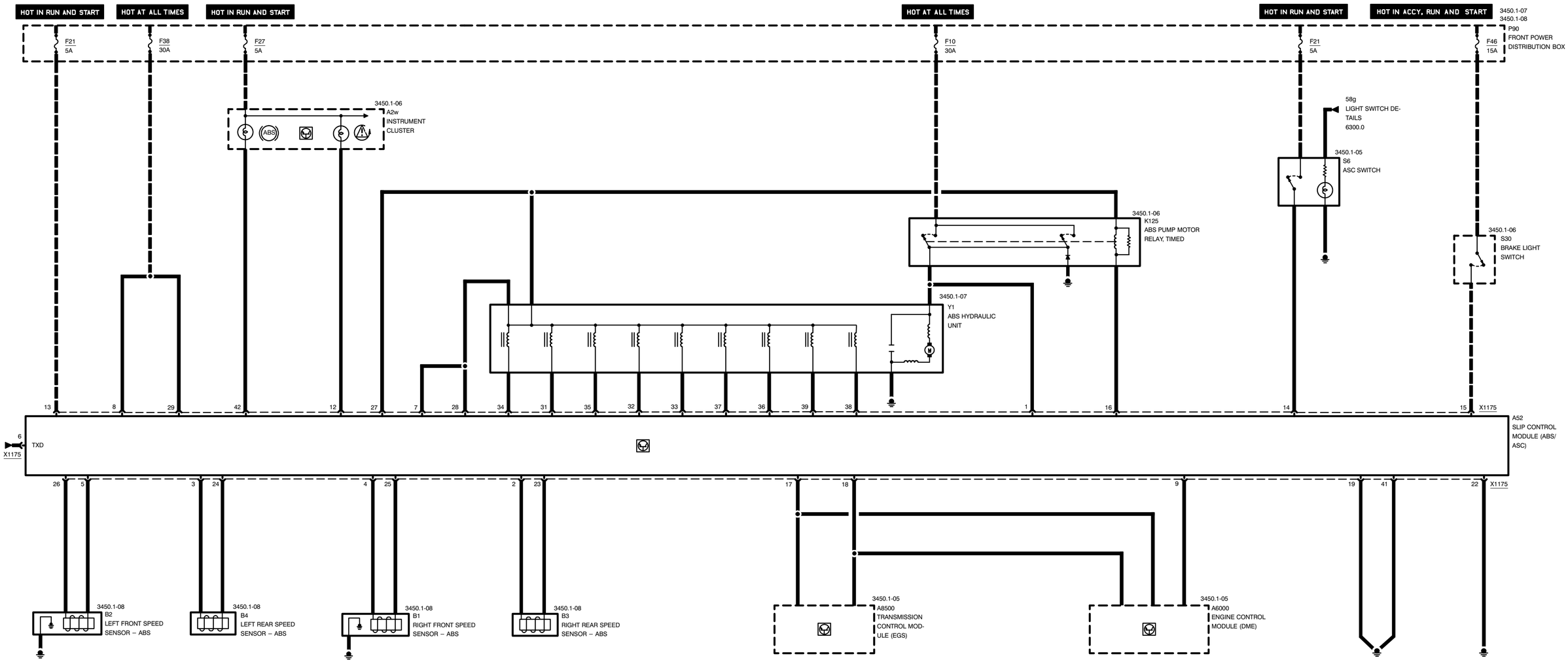
03/98 — 3450.1b — 1997
03/98 — 3450.1b — 1997

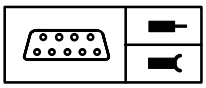
318is EARLY PRODUCTION



03/98 3450.1c 1997
03/98 3450.1c 1997

318is LATE PRODUCTION



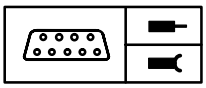


Pin Assignments (328i, M3)

X1171

Pin	Type	Description/Function	Connection
1	M	Ground	Ground
2	E	Battery voltage	ABS relay
3	M	Ground, module	Ground
4	E	Ignition cut-off signal	DME module
5	A	EML signal	DME module
6	A	Transmission influence	Transmission control module
7	E/A	TxD signal	Diagnostic link
8	A	RxD signal	Diagnostic link
9		Not used	
10	A	Sensor ground	ABS speed sensor rear right
11	A	Sensor ground	ABS speed sensor front right
12		Not used	
13	A	ABS power protection relay	ABS power protection relay
14	E	Pedal travel sensor	Pedal travel sensor (M3)
15	A	Right rear speed signal	DME module
16	E	Plus supply	ABS relay
17	A	Solenoid valve signal left rear inlet	ABS hydraulic unit
18	A	Solenoid valve signal left rear outlet	ABS hydraulic unit
19	M	Ground	Ground
20	A	ADS step motor (−)	ADS step motor
21	A	ADS step motor (+)	ADS step motor
22	A	Solenoid valve signal right front inlet	ABS hydraulic unit
23	E	ASC throttle flap potentiometer (−)	ASC throttle flap motor potentiometer
24		Not used	
25	E	Signal idle speed	DME module
26	A	Throttle flap position	DME module
27	E	ASC switch signal	ASC switch
28		Not used	
29	A	Sensor ground	ABS speed sensor rear left
30	A	Sensor ground	ABS speed sensor front left

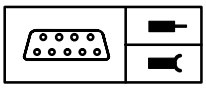
E = Input, A = Output, M = Ground



Pin Assignments (328i, M3)

Pin	Type	Description/Function	Connection
31	E	Pedal travel sensor	Pedal travel sensor (M3)
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS relay
34	A	ABS lamp control	Instrument cluster
35	E	Ignition signal	Fuse 21
36	A	Separator valve	ABS hydraulic unit
37	A	Solenoid valve signal right front outlet	ABS hydraulic unit
38		Not used	
39	A	Right rear inlet valve	ABS hydraulic unit
40	A	Solenoid valve signal left front inlet	ABS hydraulic unit
41	E	Speed signal	DME module
42	E	ASC throttle flap potentiometer (+)	ASC throttle flap potentiometer
43	E	ASC throttle flap signal	ASC throttle flap potentiometer
44	A	ASC lamp control	Instrument cluster
45	E	Speed sensor signal rear right	Speed sensor rear right
46	E	Speed sensor signal rear left	Speed sensor rear left
47	E	Speed sensor signal front right	Speed sensor front right
48	E	Speed sensor signal front left	Speed sensor front left
49	E	Pump motor sensor signal	ABS hydraulic unit
50	E	Shield pump motor sensor	ABS hydraulic unit
51	E	Plus supply	Front power distribution box
52	A	ABS pump motor relay	ABS pump motor relay
53		Not used	
54	A	Solenoid valve signal left front outlet	ABS hydraulic unit
55	A	Right rear outlet valve	ABS hydraulic unit

E = Input, A = Output, M = Ground

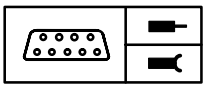


Pin Assignments (318is Early Production)

X1175

Pin	Type	Description/Function	Connection
1	E	Signal pump motor	ABS pump motor relay
2	A	Sensor ground	Right rear speed sensor (ABS)
3	A	Sensor gound	Left rear speed sensor (ABS)
4	A	Sensor ground	Right front speed sensor (ABS)
5	A	Sensor ground	Leftt front speed sensor (ABS)
6	E/A	TxD diagnostic data link	Data link connector
7	A	ABS signal	ABS hydraulic unit
8	E	Voltage supply	Fuse 38
9	A	Speed signal right rear	DME module
10		Not used	
11		Not used	
12	A	ASC signal	Instrument cluster
13	E	Voltage supply	Fuse 21
14	E	ASC signal	ASC switch
15	E	Brake pedal position	Brake light switch
16	A	Activate relay	ABS pump motor relay
17	E/A	CAN HIGH	DME/EGS module
18	E/A	CAN LOW	DME/EGS module
19	M	Ground	Ground point
20		Not used	
21		Not used	
22	M	Ground	Ground point
23	E	Speed signal	Right rear speed sensor (ABS)
24	E	Speed signal	Left rear speed sensor (ABS)
25	E	Speed signal	Right front speed sensor (ABS)
26	E	Speed signal	Left front speed sensor (ABS)
27	A	ABS signal	ABS pump motor relay/Hydraulic unit
28	A	ABS signal	ABS hydraulic unit
29	E	Voltage supply	Fuse 38
30		Not used	

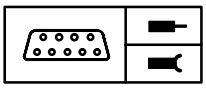
E = Input, A = Output, M = Ground



Pin Assignments (318is Early Production)

Pin	Type	Description/Function	Connection
31	A	Seperator valve	ABS hydraulic unit
32	A	Left rear inlet valve	ABS hydraulic unit
33	A	Left rear outlet valve	ABS hydraulic unit
34	A	Right rear inlet valve	ABS hydraulic unit
35	A	Right rear outlet valve	ABS hydraulic unit
36	A	Left front outlet valve	ABS hydraulic unit
37	A	Right front outlet valve	ABS hydraulic unit
38	A	Left front inlet valve	ABS hydraulic unit
39	A	Right front inlet valve	ABS hydraulic unit
40		Not used	
41	M	Ground	Ground point
42	A	ABS signal	Instrument cluster

E = Input, A = Output, M = Ground

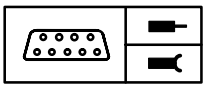


Pin Assignments (318is Late Production)

X1170

Pin	Type	Description/Function	Connection
43	A	Right rear inlet valve	ABS hydraulic unit
44	A	Separator valve	ABS hydraulic unit
45	M	Ground	Ground point
46	E	Voltage supply	Fuse 21
47		Not used	
48	E/A	CAN LOW	DME/EGS module
49	E/A	CAN HIGH	DME/EGS module
50	E	ASC throttle flap signal	Accelerator pedal position sensor
51	E	ASC throttle flap potentiometer (−)	Accelerator pedal position sensor
52		Not used	
53	A	Sensor ground	Left front speed sensor (ABS)
54	A	Sensor ground	Right front speed sensor (ABS)
55	A	Sensor ground	Left rear speed sensor (ABS)
56	A	Sensor ground	Right rear speed sensor (ABS)
57	E	Signal pump motor	ABS pump motor relay
58		Not used	
59	E	Brake pedal position	Brake light switch
60		Not used	
61	M	Ground	Ground point
62		Not used	
63		Not used	
64	A	Left front outlet valve	ABS hydraulic unit
65	A	Right rear outlet valve	ABS hydraulic unit
66	A	Left rear inlet valve	ABS hydraulic unit
67	A	Left rear outlet valve	ABS hydraulic unit
68	A	Right front outlet valve	ABS hydraulic unit
69	A	Right front inlet valve	ABS hydraulic unit
70	A	Activate relay	ABS pump motor relay
71	A	Left front inlet valve	ABS hydraulic unit
72	E	ASC throttle flap potentiometer (+)	Accelerator pedal position sensor

E = Input, A = Output, M = Ground



Pin Assignments (318is Late Production)

Pin	Type	Description/Function	Connection
73	A	ABS signal	ABS pump motor relay/Hydraulic unit
74	E	Speed signal	Left front speed sensor (ABS)
75	E	Speed signal	Right front speed sensor (ABS)
76	E	Speed signal	Left rear speed sensor (ABS)
77	E	Speed signal	Right rear speed sensor (ABS)
78	E/A	TxD diagnostic data link	Data link connector
79	A	Speed signal right rear	DME module
80		Not used	
81	E	ASC signal	ASC switch
82	E	Slip control system warning lamp	Slip control module (ASC)
83	M	Ground	Ground point
84	A	ASC signal	Instrument cluster

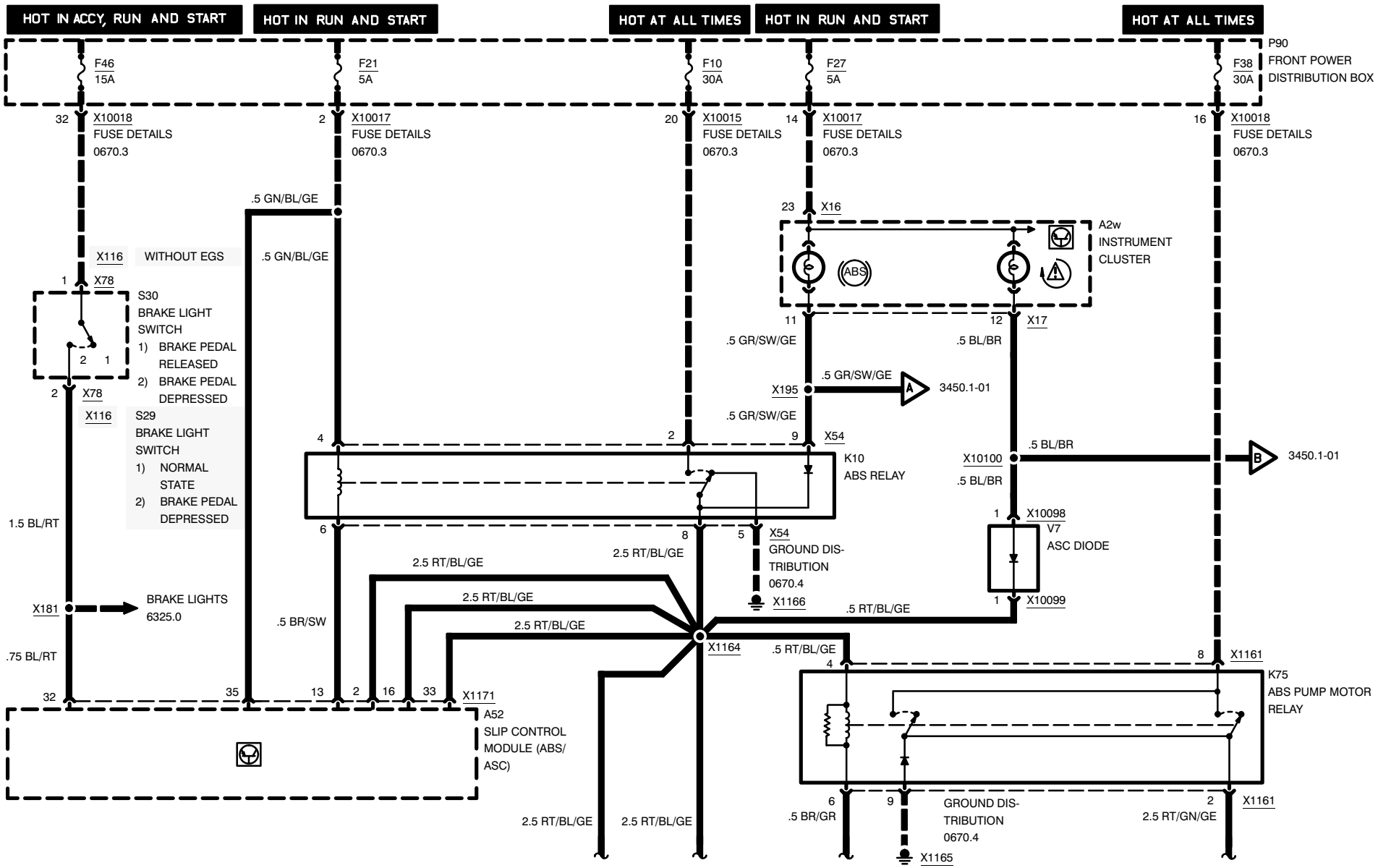
X11395

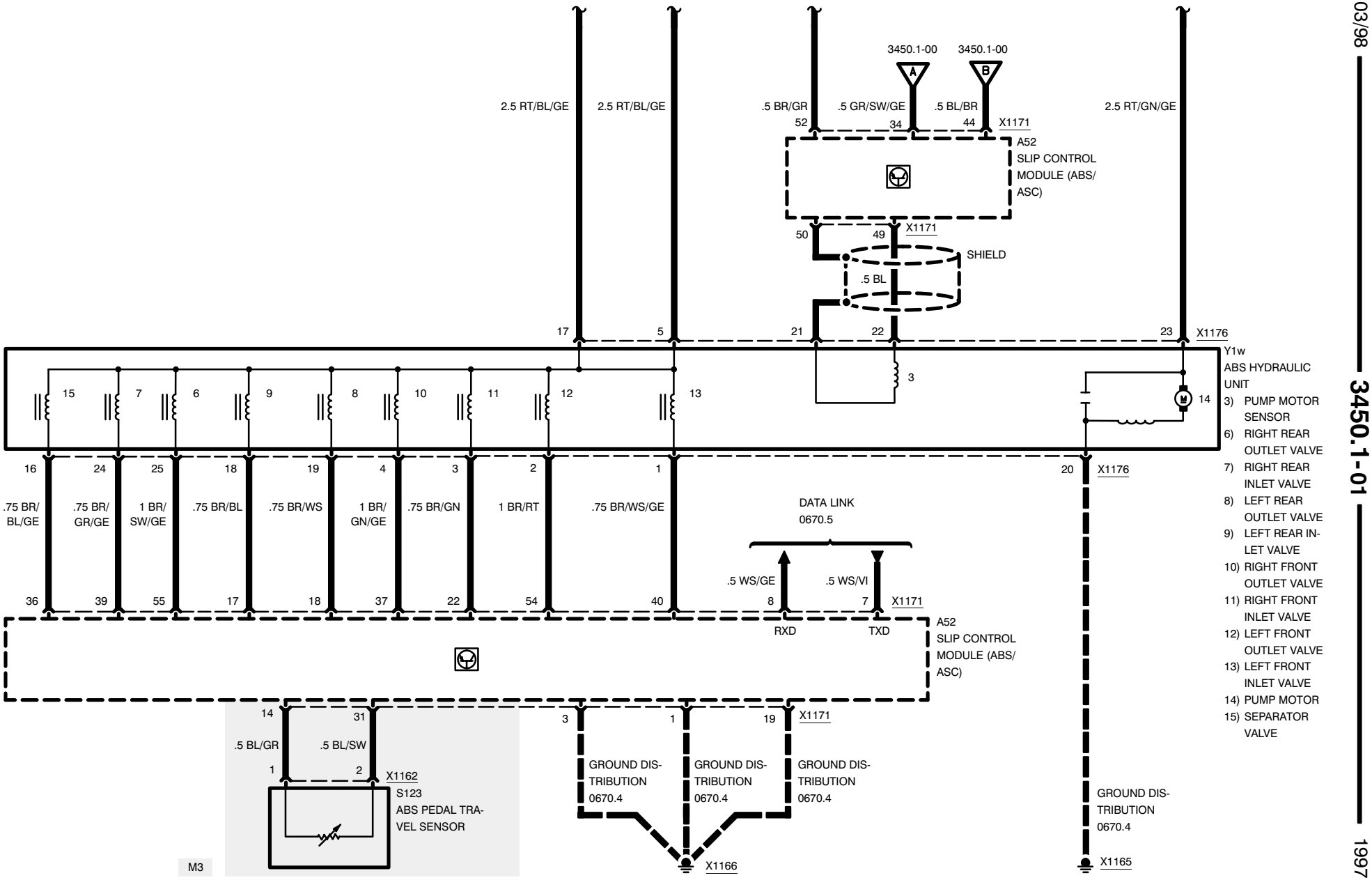
Pin	Type	Description/Function	Connection
1	A	ADS step motor (+)	ADS step motor
2	M	Ground	Ground point
3	A	ADS step motor (−)	ADS step motor
4	E	Voltage supply	Fuse 38
5	A	ABS signal	ABS hydraulic unit

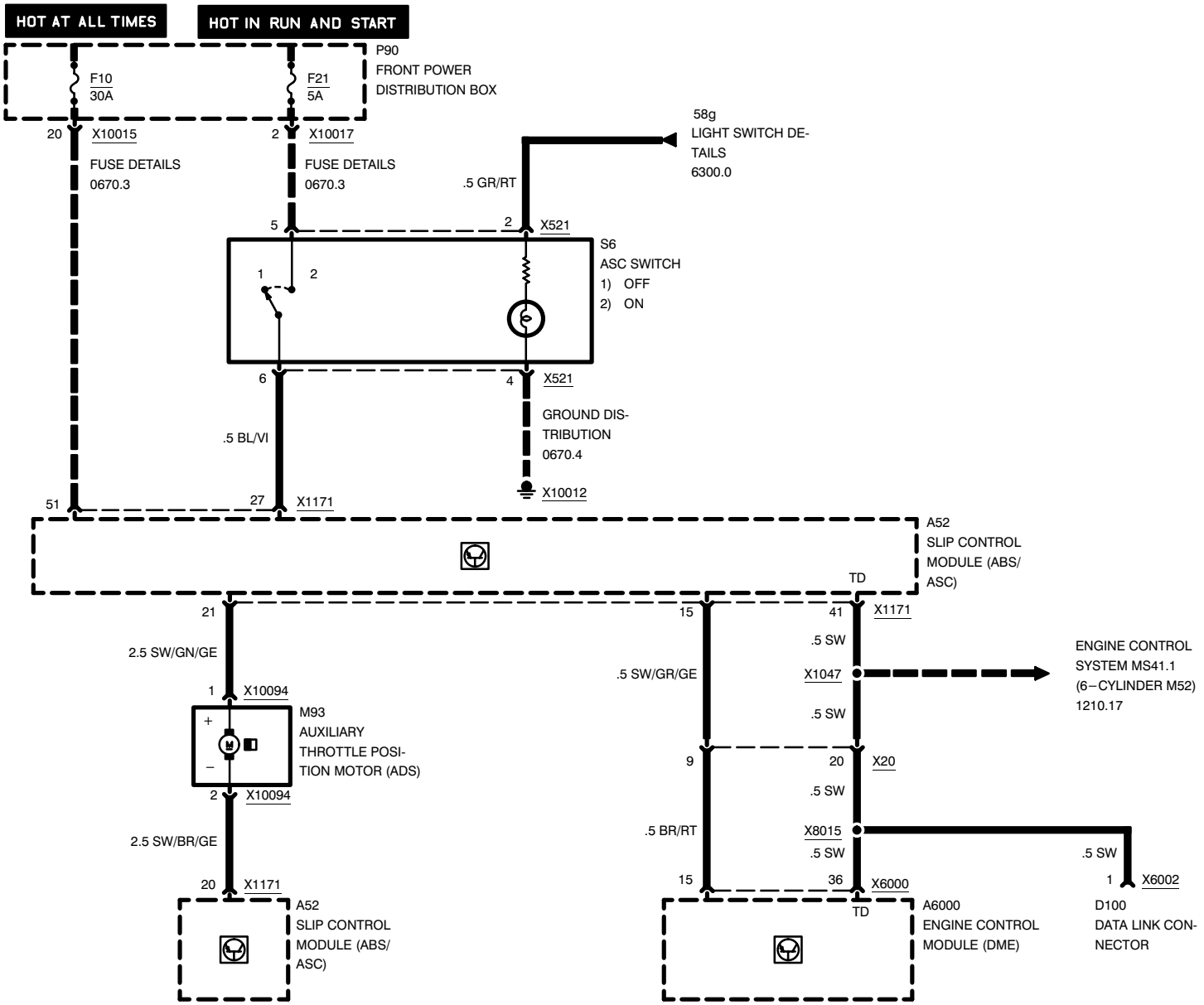
E = Input, A = Output, M = Ground

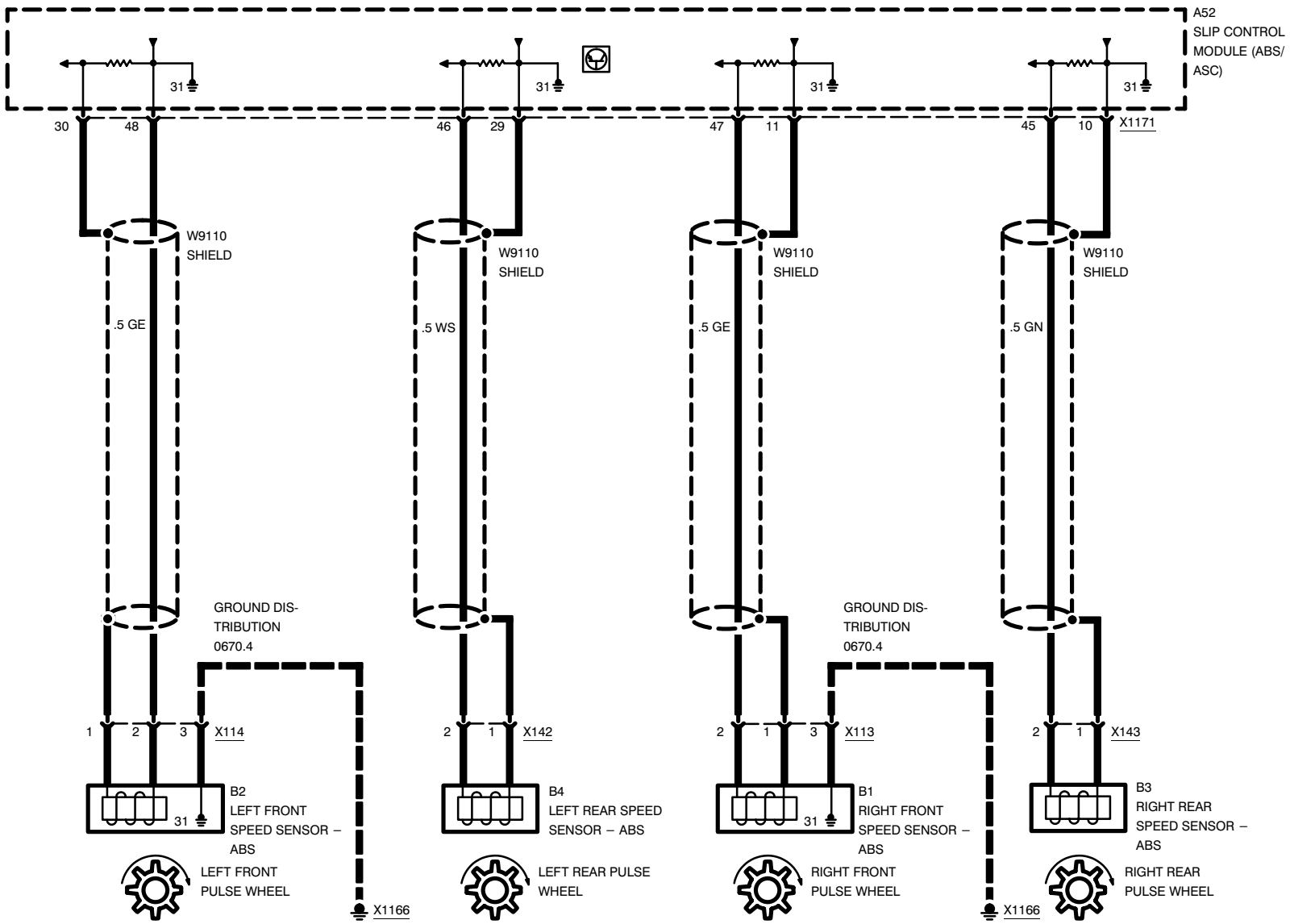
SLIP CONTROL (ABS/ASC)

328i, M3



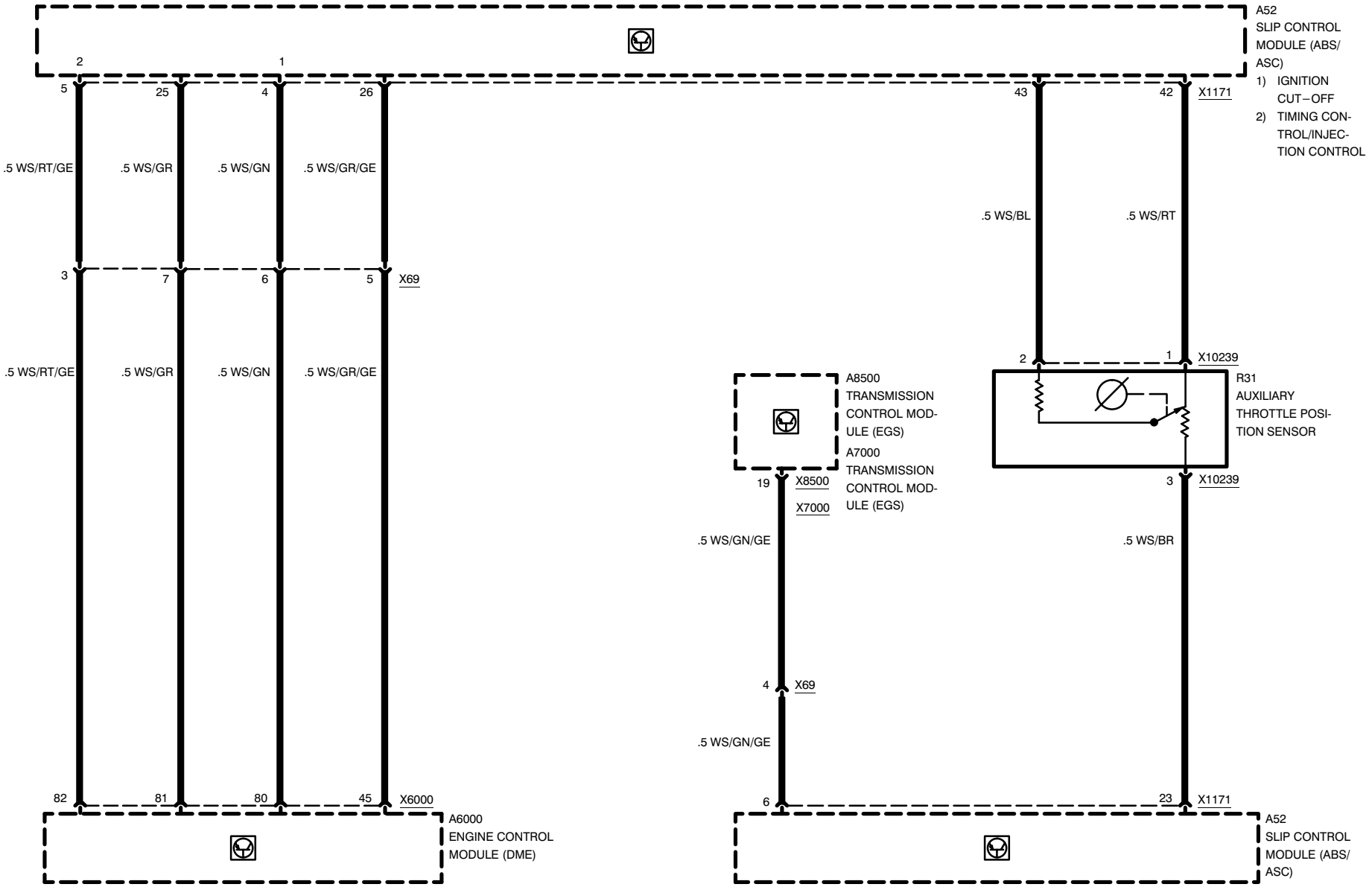

3450.1-00
3450.1-00
A
B
2.5 RT/BL/GE
2.5 RT/BL/GE
.5 BR/GR
.5 GR/SW/GE
.5 BL/BR
2.5 RT/GN/GE
52
34
44
X1171
A52
SLIP CONTROL MODULE (ABS/ ASC)
50
49
X1171
SHIELD
.5 BL
17
5
21
22
23
X1176
Y1w
ABS HYDRAULIC UNIT
3) PUMP MOTOR SENSOR
6) RIGHT REAR OUTLET VALVE
7) RIGHT REAR INLET VALVE
8) LEFT REAR OUTLET VALVE
9) LEFT REAR IN- LET VALVE
10) RIGHT FRONT OUTLET VALVE
11) RIGHT FRONT INLET VALVE
12) LEFT FRONT OUTLET VALVE
13) LEFT FRONT INLET VALVE
14) PUMP MOTOR
15) SEPARATOR VALVE
15
7
6
9
8
10
11
12
13
3
14
16
24
25
18
19
4
3
2
1
20
X1176
.75 BR/ BL/GE
.75 BR/ GR/GE
1 BR/ SW/GE
.75 BR/BL
.75 BR/WS
1 BR/ GN/GE
.75 BR/GN
1 BR/RT
.75 BR/WS/GE
DATA LINK
0670.5
.5 WS/GE
.5 WS/VI
36
39
55
17
18
37
22
54
40
8
7
X1171
RXD
TXD
A52
SLIP CONTROL MODULE (ABS/ ASC)
14
31
.5 BL/GR
.5 BL/SW
1
2
X1162
S123
ABS PEDAL TRA- VEL SENSOR
3
1
19
X1171
GROUND DIS- TRIBUTION 0670.4
GROUND DIS- TRIBUTION 0670.4
GROUND DIS- TRIBUTION 0670.4
GROUND DIS- TRIBUTION 0670.4
X1166
X1165
M3


HOT AT ALL TIMES
HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F10
30A
F21
5A
20
X10015
FUSE DETAILS
0670.3
2
X10017
FUSE DETAILS
0670.3
58g
LIGHT SWITCH DE-
TAILS
6300.0
.5 GR/RT
5
2
X521
S6
ASC SWITCH
1) OFF
2) ON
1
2
6
4
X521
.5 BL/VI
GROUND DIS-
TRIBUTION
0670.4
X10012
51
27
X1171
A52
SLIP CONTROL
MODULE (ABS/
ASC)
TD
21
2.5 SW/GN/GE
1
X10094
M93
AUXILIARY
THROTTLE POSI-
TION MOTOR (ADS)
2
X10094
2.5 SW/BR/GE
20
X1171
A52
SLIP CONTROL
MODULE (ABS/
ASC)
15
41
X1171
.5 SW
.5 SW/GR/GE
X1047
ENGINE CONTROL
SYSTEM MS41.1
(6−CYLINDER M52)
1210.17
.5 SW
9
20
X20
.5 SW
.5 BR/RT
X8015
.5 SW
.5 SW
1
X6002
D100
DATA LINK CON-
NECTOR
15
36
X6000
TD
A6000
ENGINE CONTROL
MODULE (DME)


A52
SLIP CONTROL MODULE (ABS/ASC)
30
48
46
29
47
11
45
10
X1171
31
W9110 SHIELD
.5 GE
.5 WS
.5 GE
.5 GN
GROUND DISTRIBUTION 0670.4
1
2
3
X114
X142
X113
X143
B2
LEFT FRONT SPEED SENSOR – ABS
B4
LEFT REAR SPEED SENSOR – ABS
B1
RIGHT FRONT SPEED SENSOR – ABS
B3
RIGHT REAR SPEED SENSOR – ABS
LEFT FRONT PULSE WHEEL
LEFT REAR PULSE WHEEL
RIGHT FRONT PULSE WHEEL
RIGHT REAR PULSE WHEEL
X1166

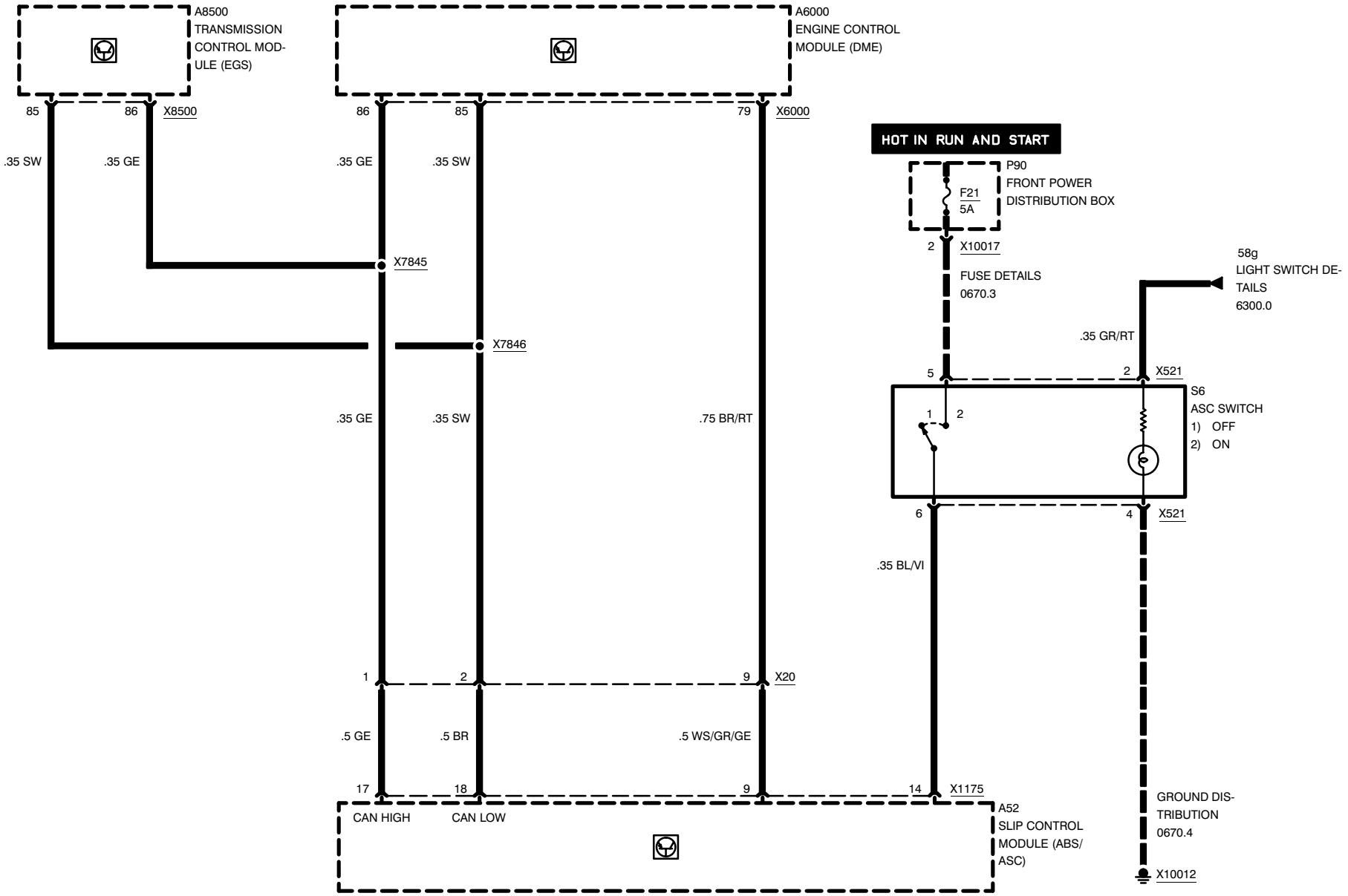
SLIP CONTROL (ABS/ASC)

328i, M3



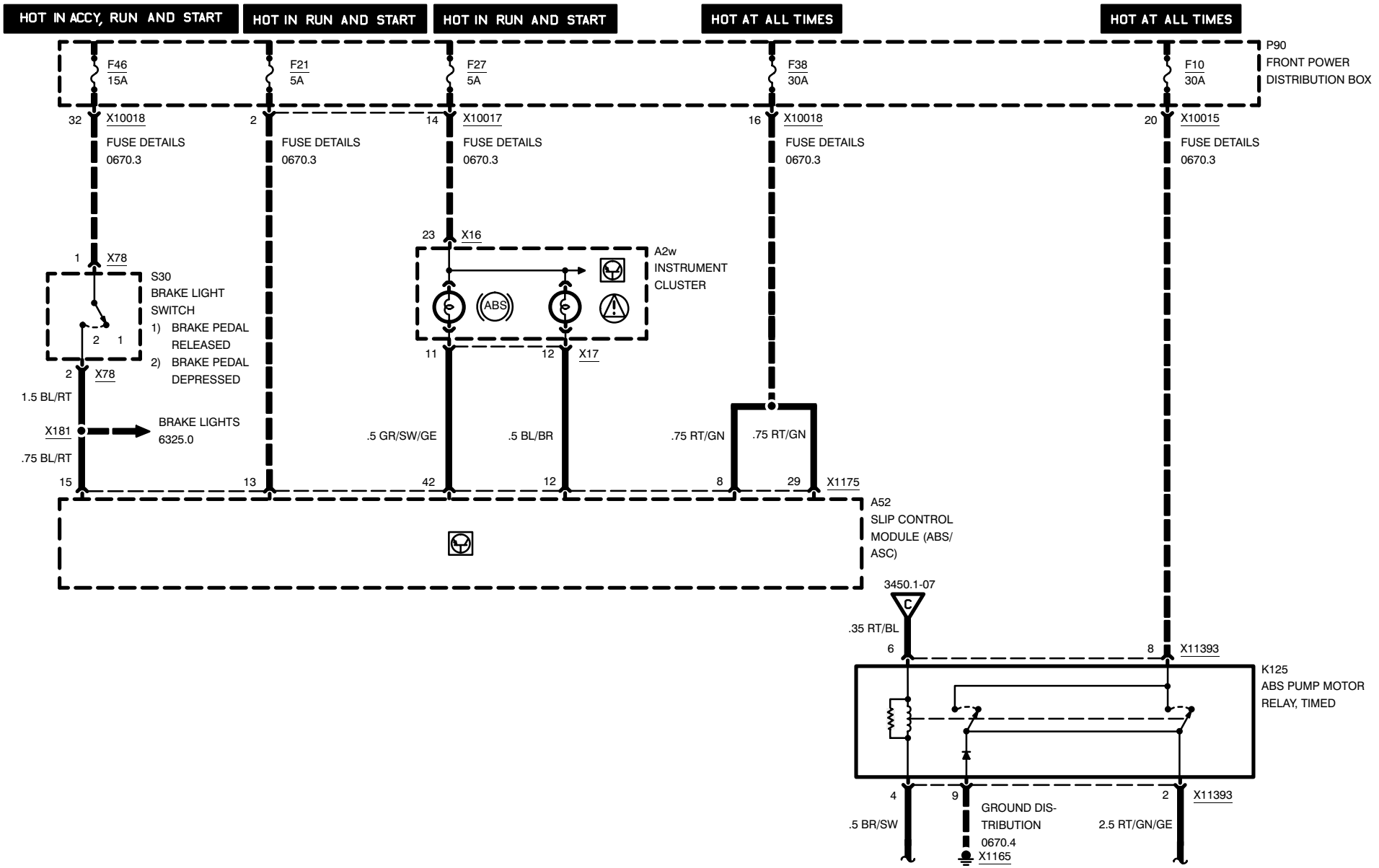
SLIP CONTROL (ABS/ASC)

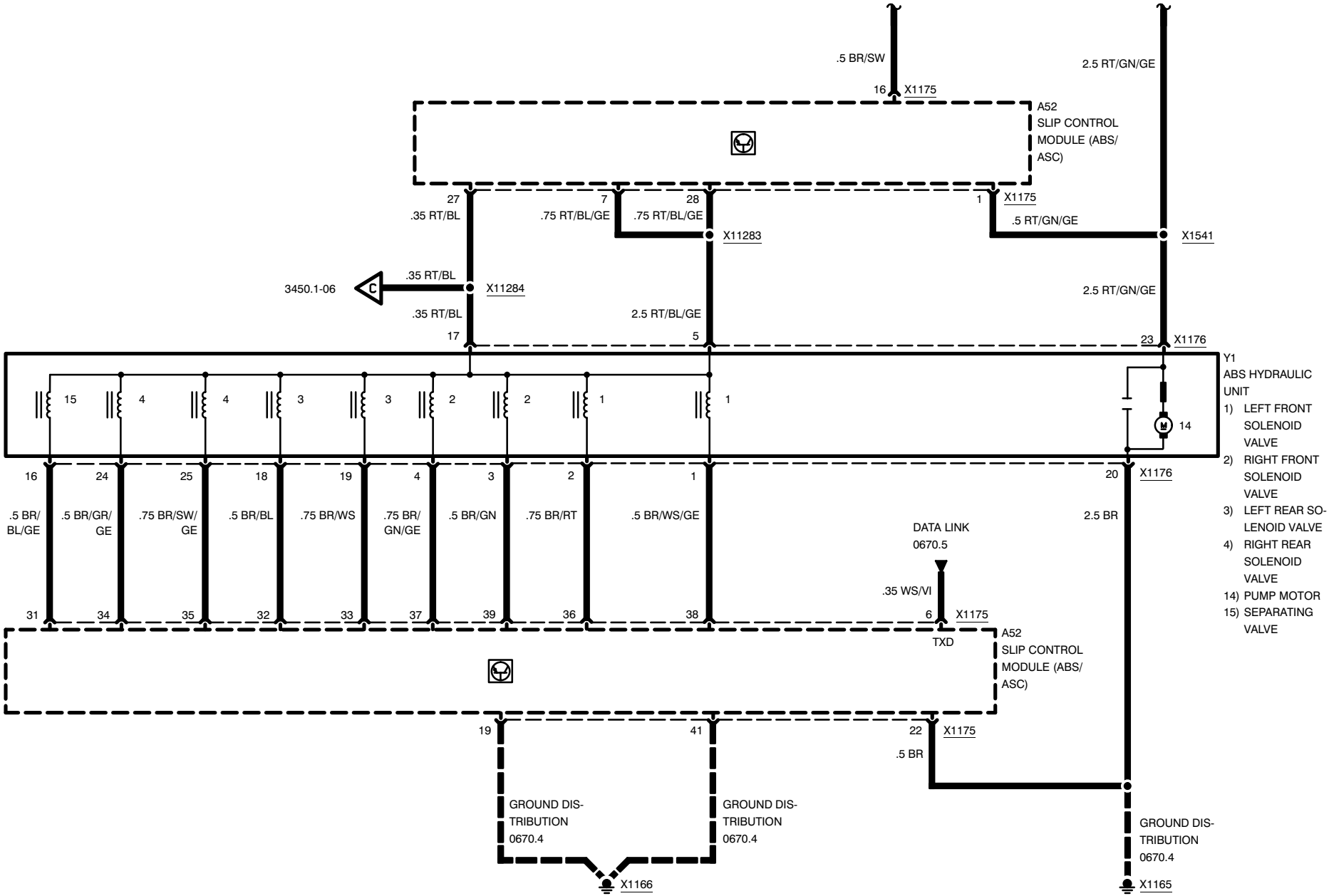
318is EARLY PRODUCTION

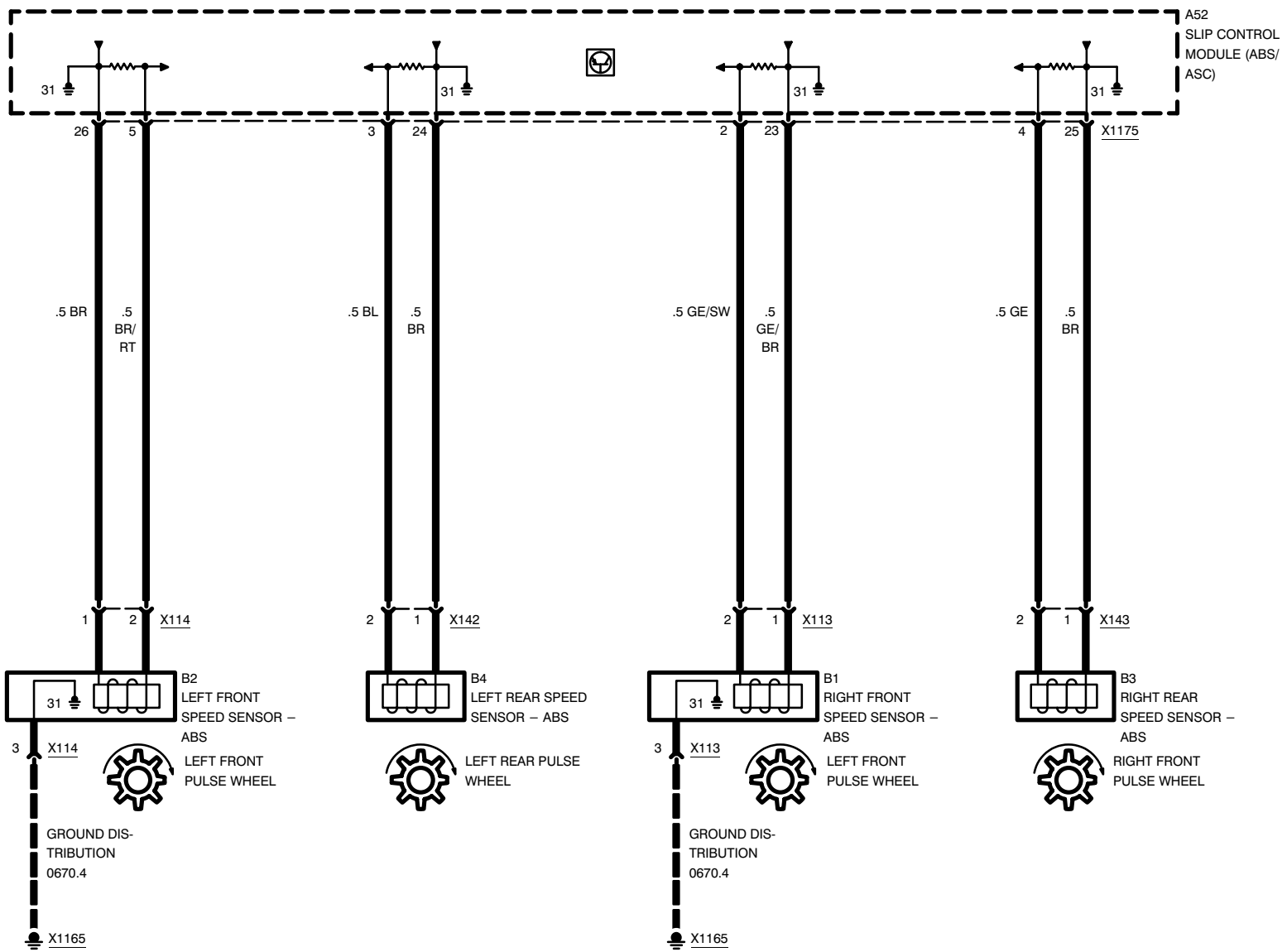


SLIP CONTROL (ABS/ASC)

318is EARLY PRODUCTION

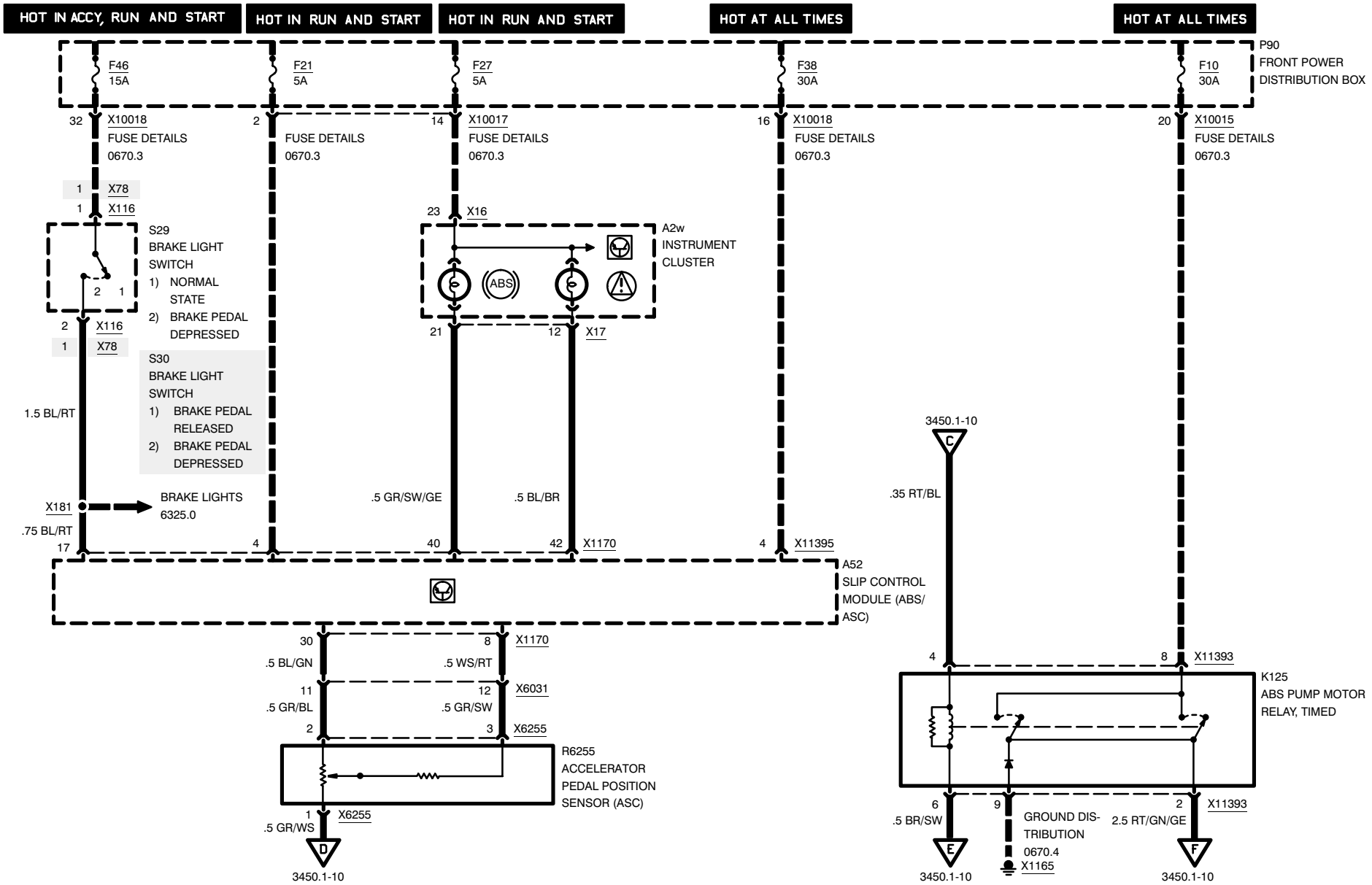



.5 BR/SW
16 X1175
A52
SLIP CONTROL
MODULE (ABS/
ASC)
2.5 RT/GN/GE
27
.35 RT/BL
7
.75 RT/BL/GE
28
.75 RT/BL/GE
X11283
1 X1175
.5 RT/GN/GE
X1541
3450.1-06
.35 RT/BL
X11284
.35 RT/BL
17
2.5 RT/BL/GE
5
2.5 RT/GN/GE
23 X1176
Y1
ABS HYDRAULIC
UNIT
1) LEFT FRONT
SOLENOID
VALVE
2) RIGHT FRONT
SOLENOID
VALVE
3) LEFT REAR SO-
LENOID VALVE
4) RIGHT REAR
SOLENOID
VALVE
14) PUMP MOTOR
15) SEPARATING
VALVE
15
4
4
3
3
2
2
1
1
14
16
.5 BR/
BL/GE
24
.5 BR/GR/
GE
25
.75 BR/SW/
GE
18
.5 BR/BL
19
.75 BR/WS
4
.75 BR/
GN/GE
3
.5 BR/GN
2
.75 BR/RT
1
.5 BR/WS/GE
20 X1176
2.5 BR
DATA LINK
0670.5
.35 WS/VI
6 X1175
TXD
31
34
35
32
33
37
39
36
38
A52
SLIP CONTROL
MODULE (ABS/
ASC)
19
41
22 X1175
.5 BR
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
X1166
X1165


A52
SLIP CONTROL MODULE (ABS/ASC)
31
26
5
3
24
2
23
4
25
X1175
.5 BR
.5 BR/RT
.5 BL
.5 BR
.5 GE/SW
.5 GE/BR
.5 GE
.5 BR
1
2
X114
2
1
X142
2
1
X113
2
1
X143
B2
LEFT FRONT SPEED SENSOR – ABS
LEFT FRONT PULSE WHEEL
B4
LEFT REAR SPEED SENSOR – ABS
LEFT REAR PULSE WHEEL
B1
RIGHT FRONT SPEED SENSOR – ABS
LEFT FRONT PULSE WHEEL
B3
RIGHT REAR SPEED SENSOR – ABS
RIGHT FRONT PULSE WHEEL
3
X114
3
X113
GROUND DISTRIBUTION 0670.4
X1165
GROUND DISTRIBUTION 0670.4
X1165

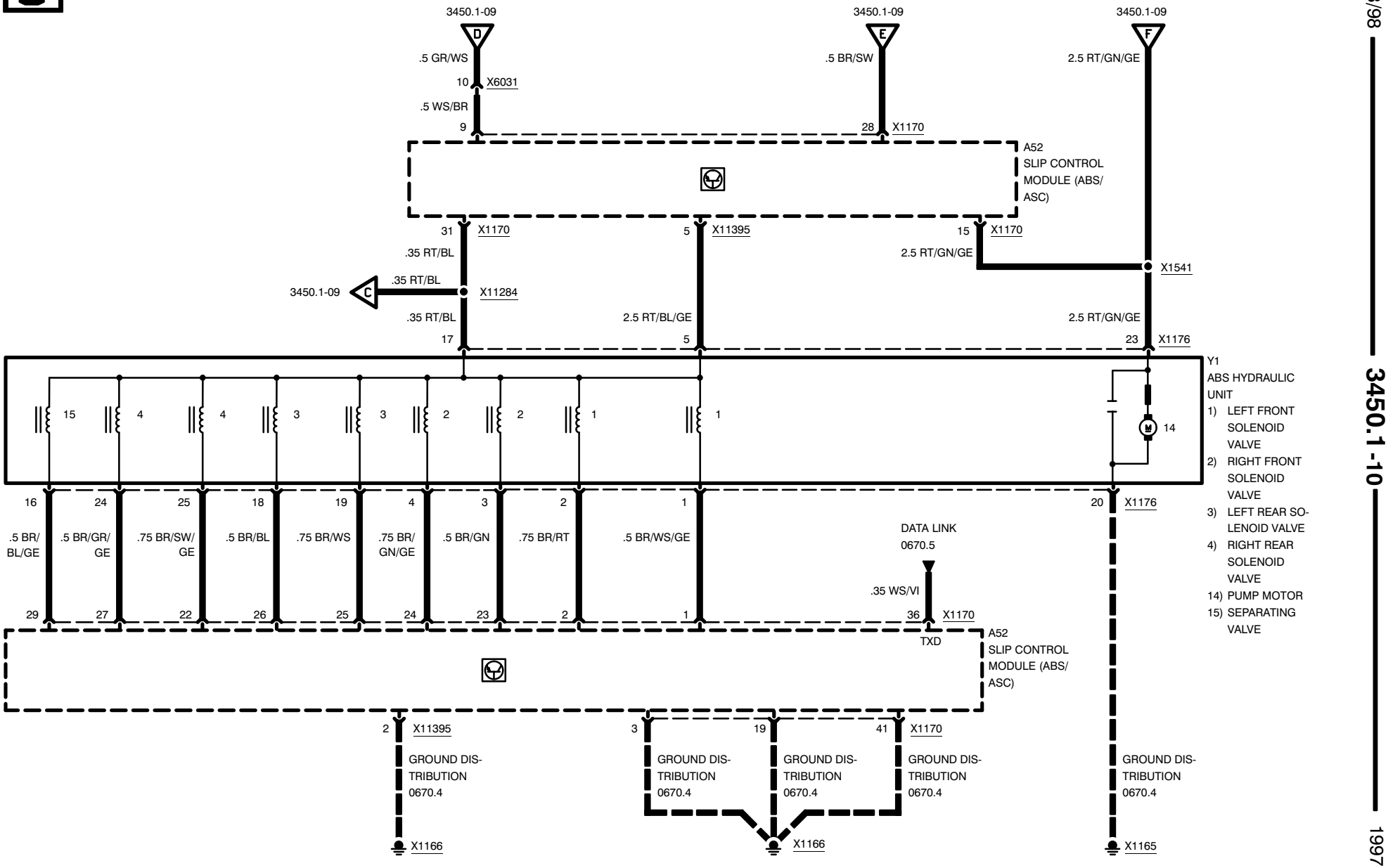
SLIP CONTROL (ABS/ASC)

318is LATE PRODUCTION



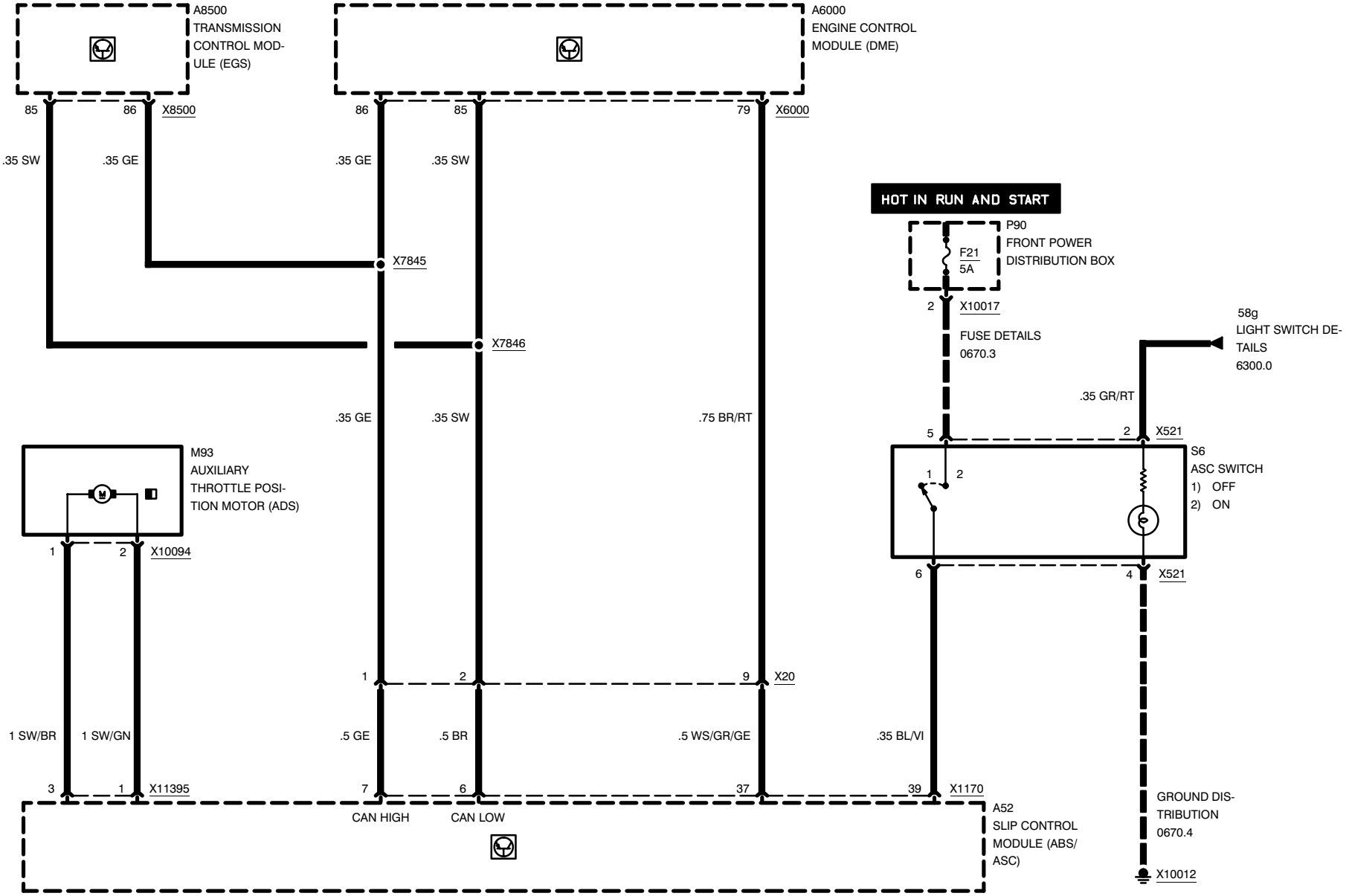
SLIP CONTROL (ABS/ASC)

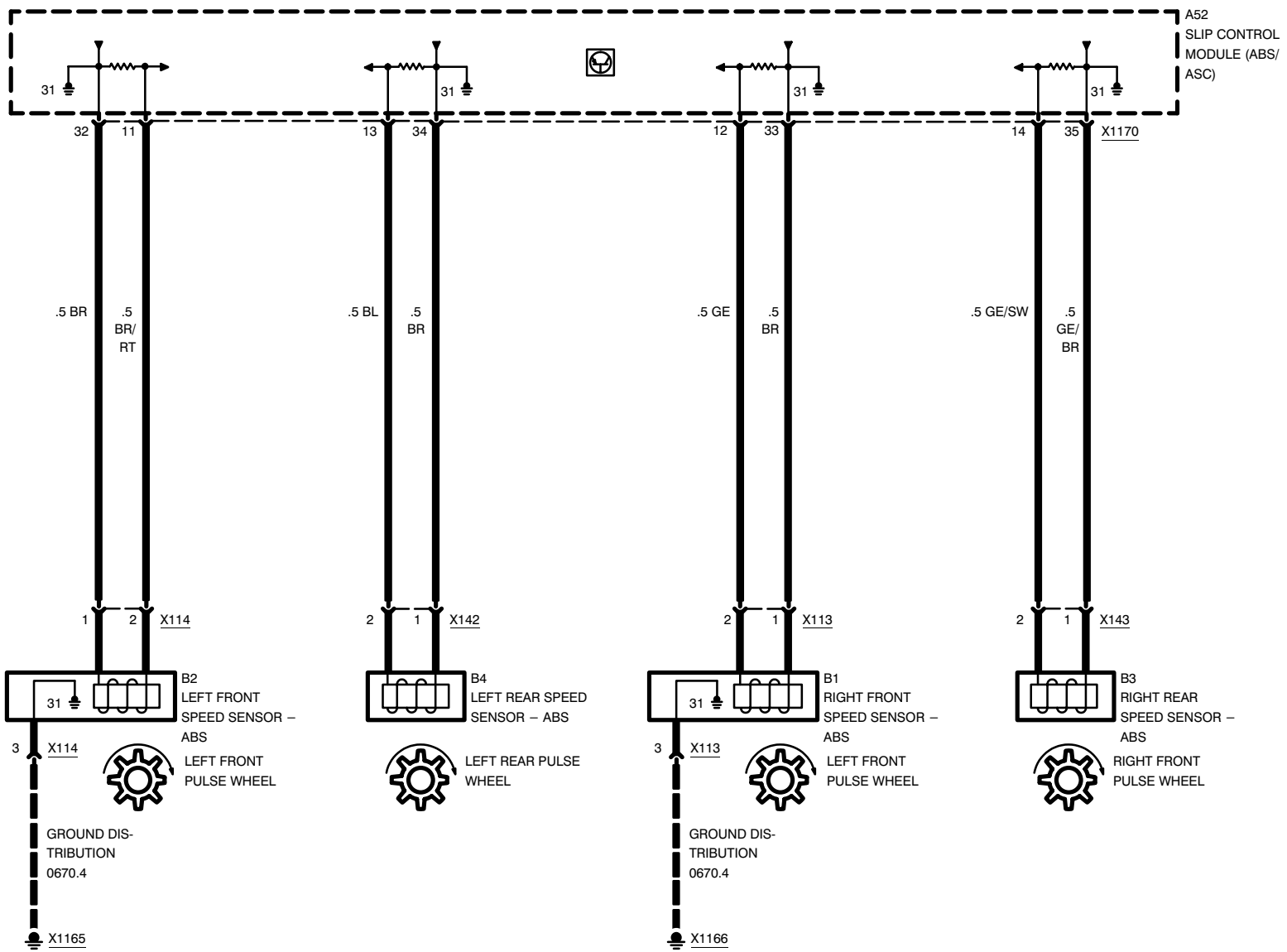
318is LATE PRODUCTION

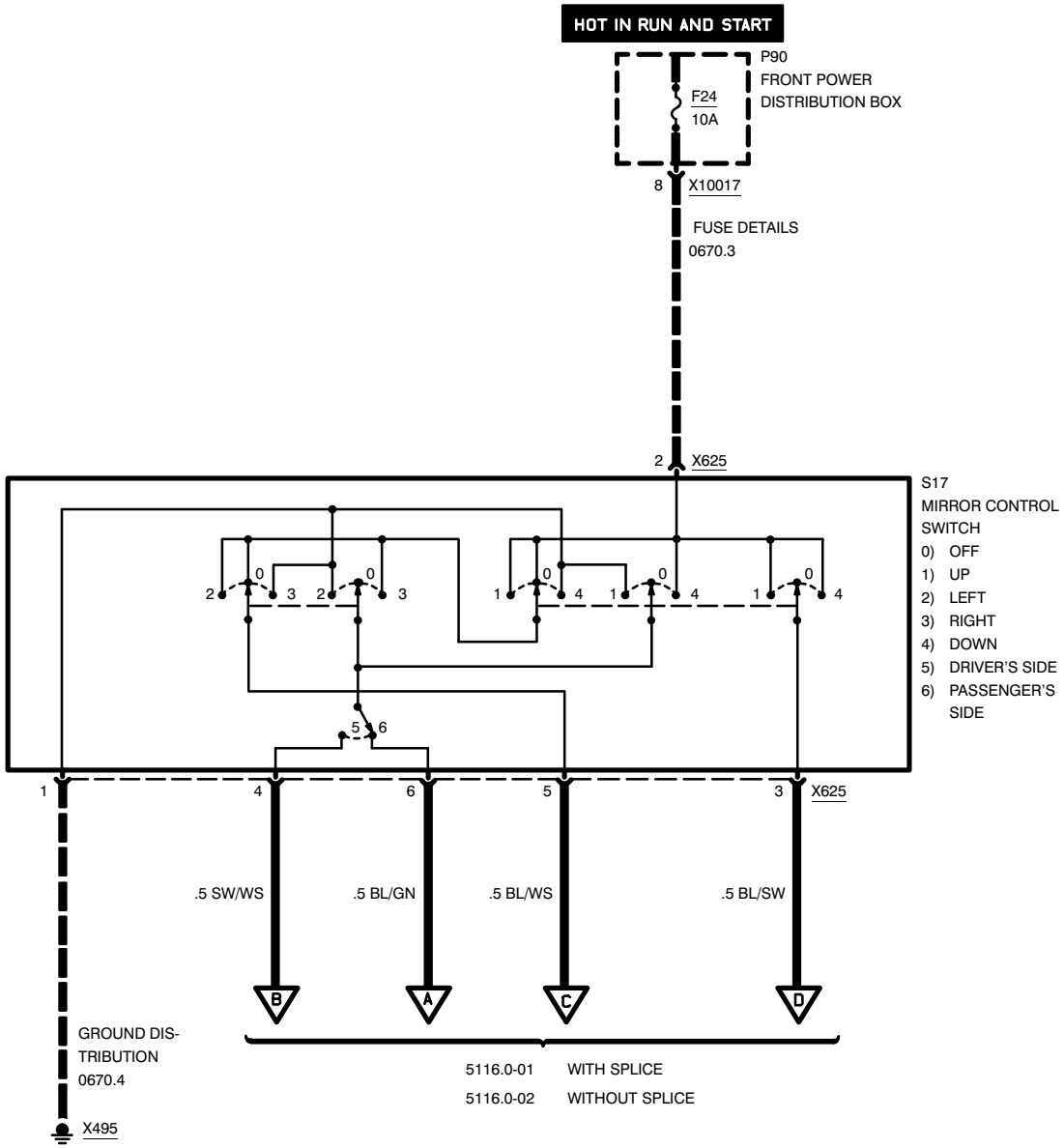


SLIP CONTROL (ABS/ASC)

318is LATE PRODUCTION

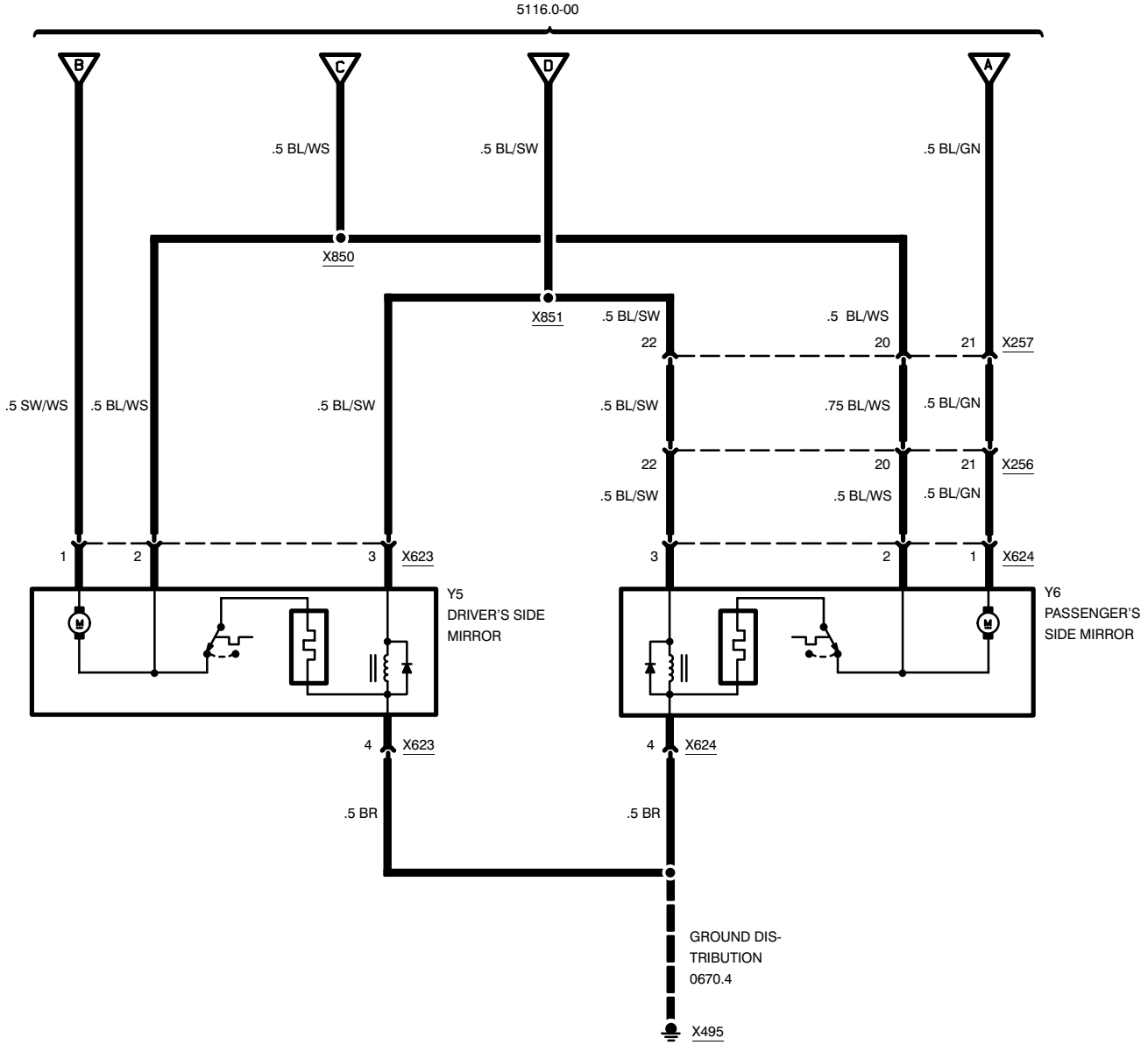



A52
SLIP CONTROL MODULE (ABS/ASC)
31
31
31
31
32
11
13
34
12
33
14
35
X1170
.5 BR
.5 BR/RT
.5 BL
.5 BR
.5 GE
.5 BR
.5 GE/SW
.5 GE/BR
1
2
X114
2
1
X142
2
1
X113
2
1
X143
B2
LEFT FRONT SPEED SENSOR – ABS
B4
LEFT REAR SPEED SENSOR – ABS
B1
RIGHT FRONT SPEED SENSOR – ABS
B3
RIGHT REAR SPEED SENSOR – ABS
31
31
3
X114
LEFT FRONT PULSE WHEEL
LEFT REAR PULSE WHEEL
3
X113
LEFT FRONT PULSE WHEEL
RIGHT FRONT PULSE WHEEL
GROUND DISTRIBUTION 0670.4
GROUND DISTRIBUTION 0670.4
X1165
X1166


HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F24
10A
8
X10017
FUSE DETAILS
0670.3
2
X625
S17
MIRROR CONTROL
SWITCH
0) OFF
1) UP
2) LEFT
3) RIGHT
4) DOWN
5) DRIVER'S SIDE
6) PASSENGER'S SIDE
1
4
6
5
3
X625
.5 SW/WS
.5 BL/GN
.5 BL/WS
.5 BL/SW
B
A
C
D
GROUND DIS-
TRIBUTION
0670.4
X495
5116.0-01 WITH SPLICE
5116.0-02 WITHOUT SPLICE

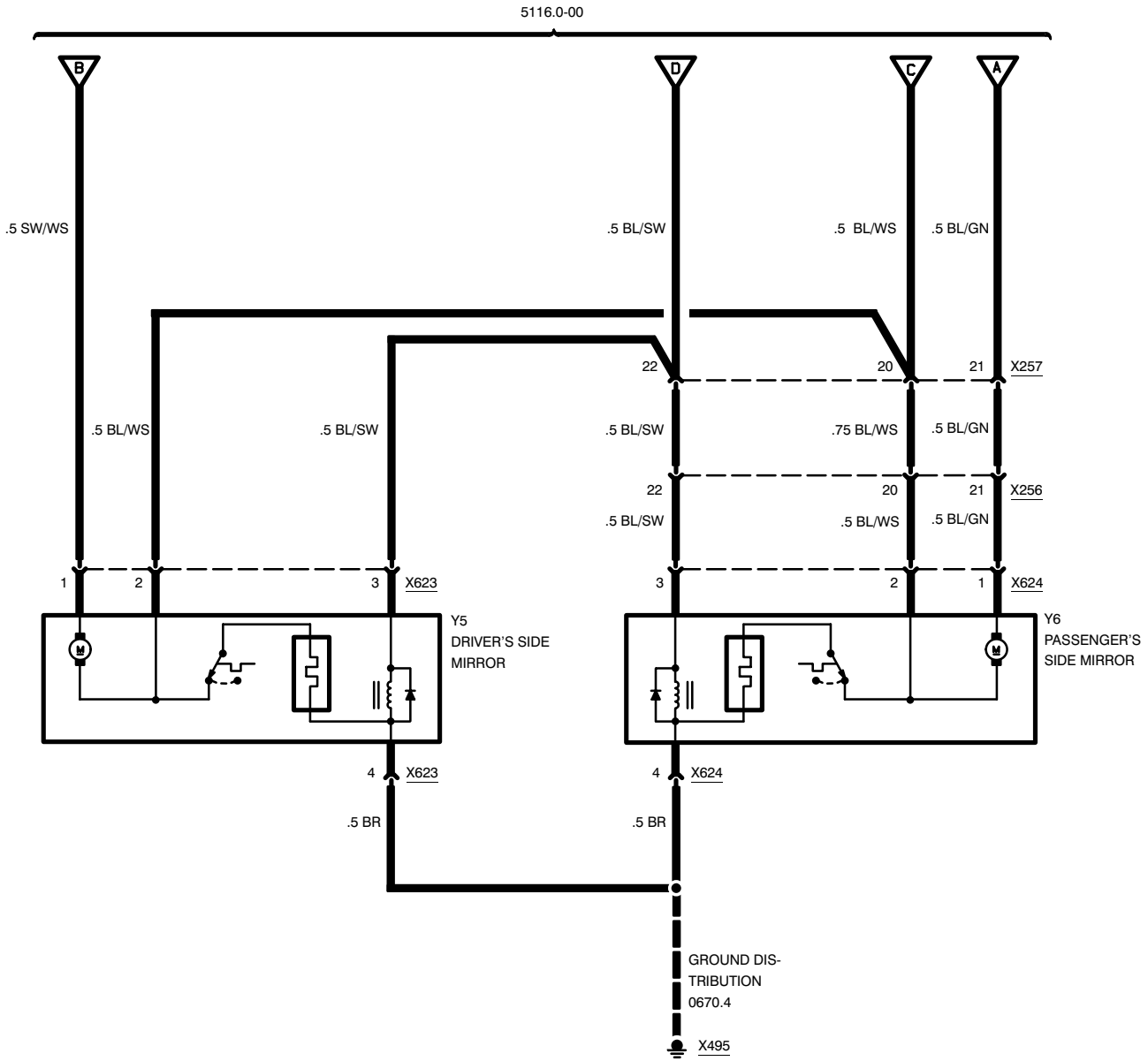
POWER MIRRORS

WITH SPLICE

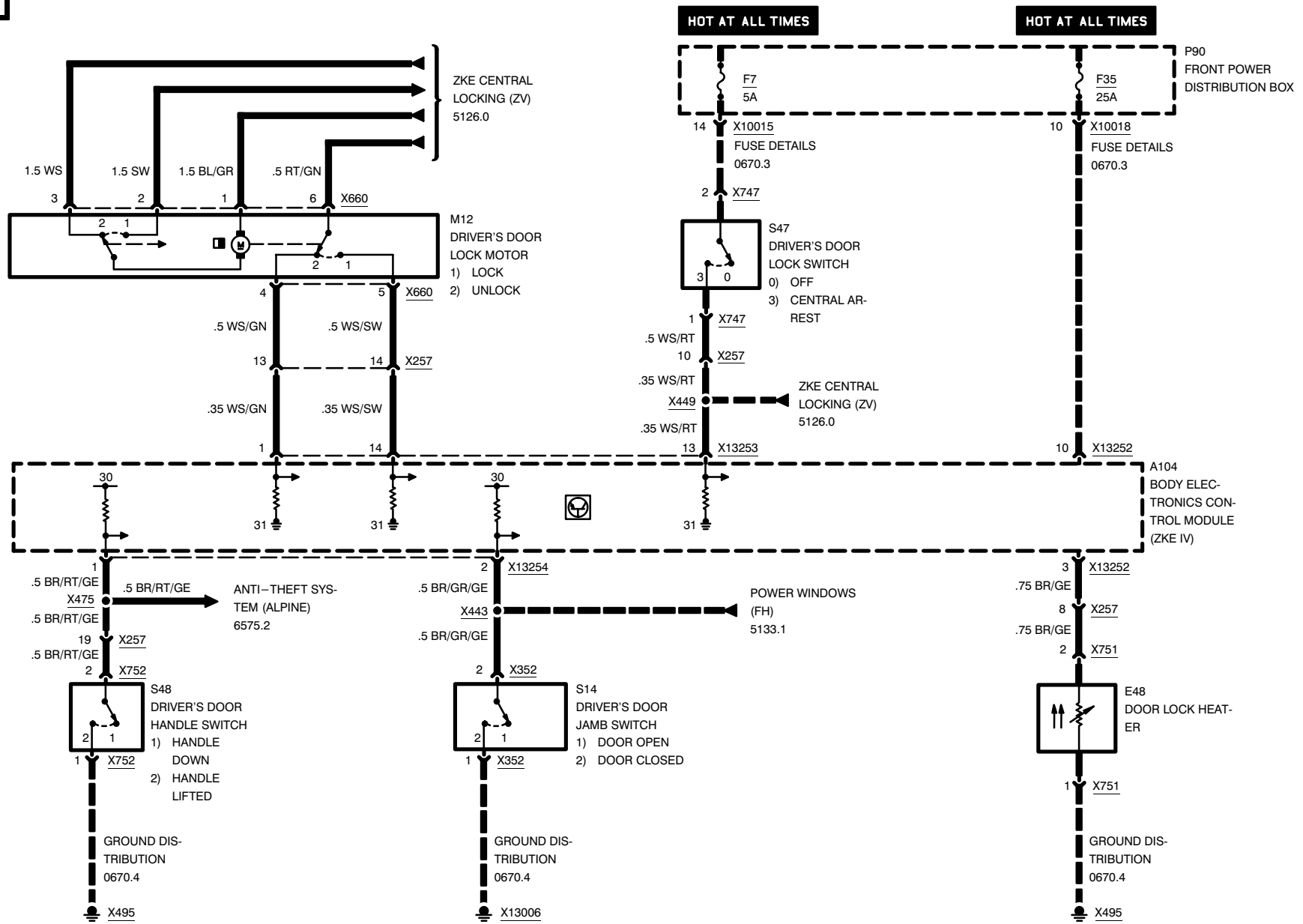


POWER MIRRORS

WITHOUT SPLICE

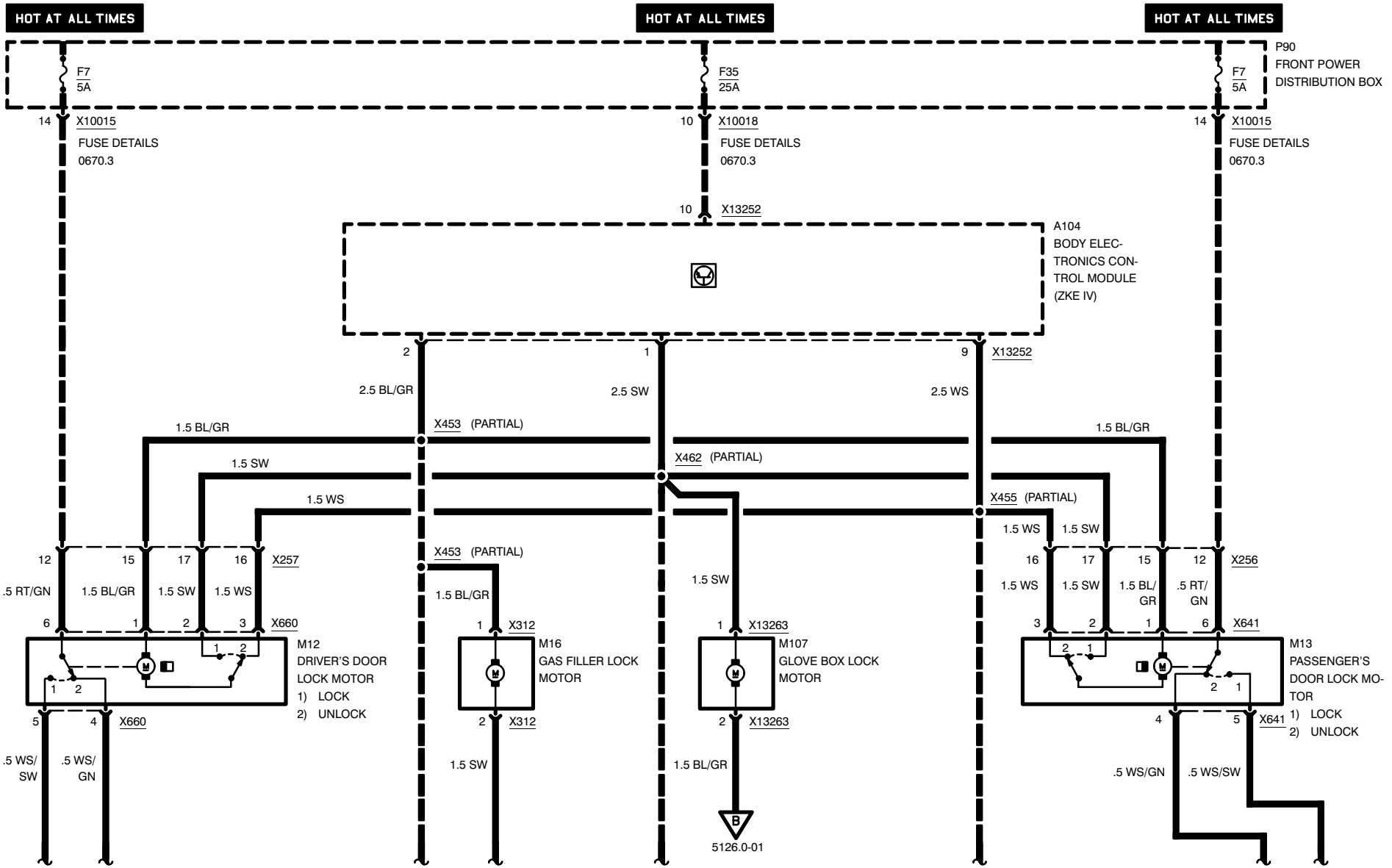


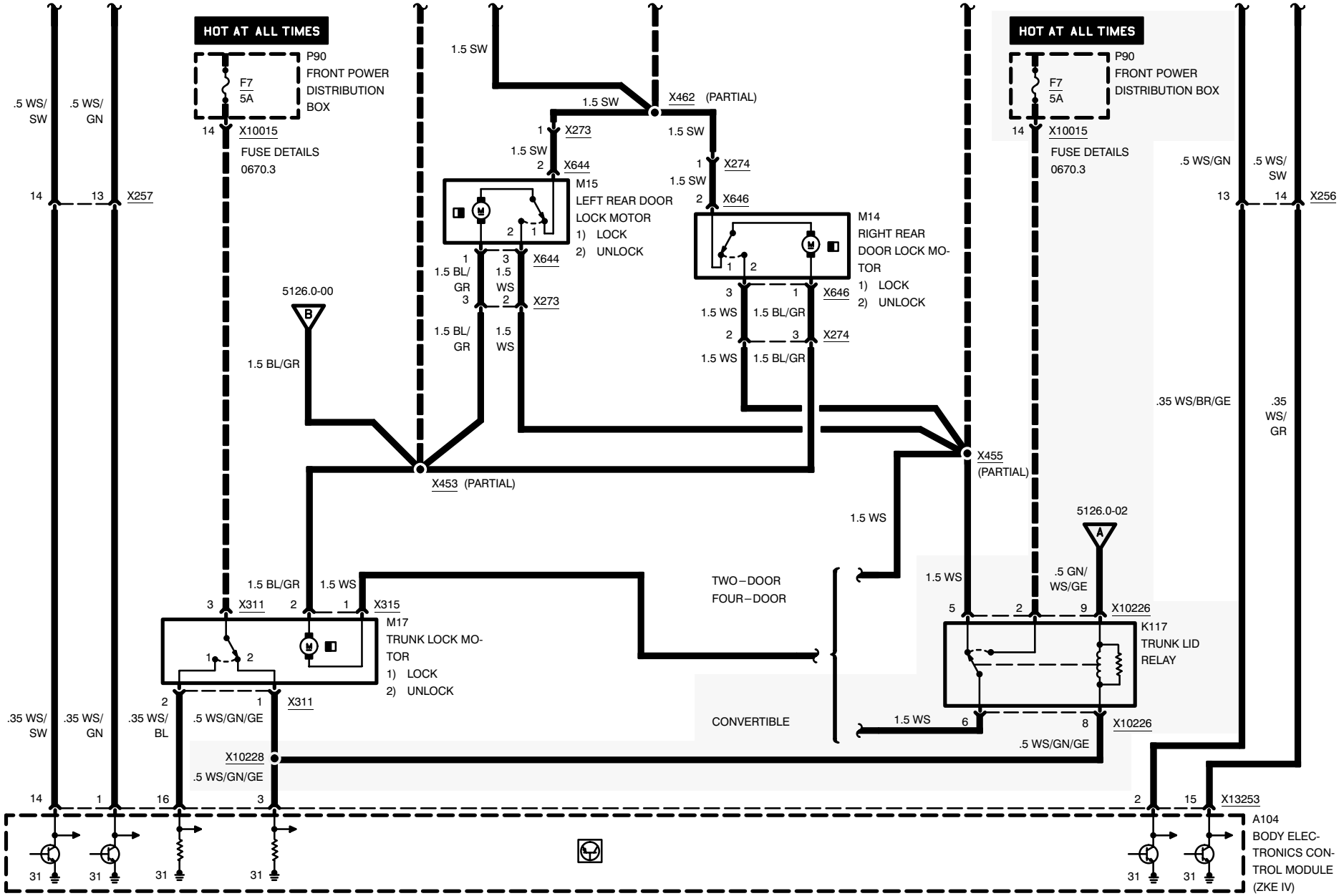
ZKE DOOR LOCK HEATING (TSH)



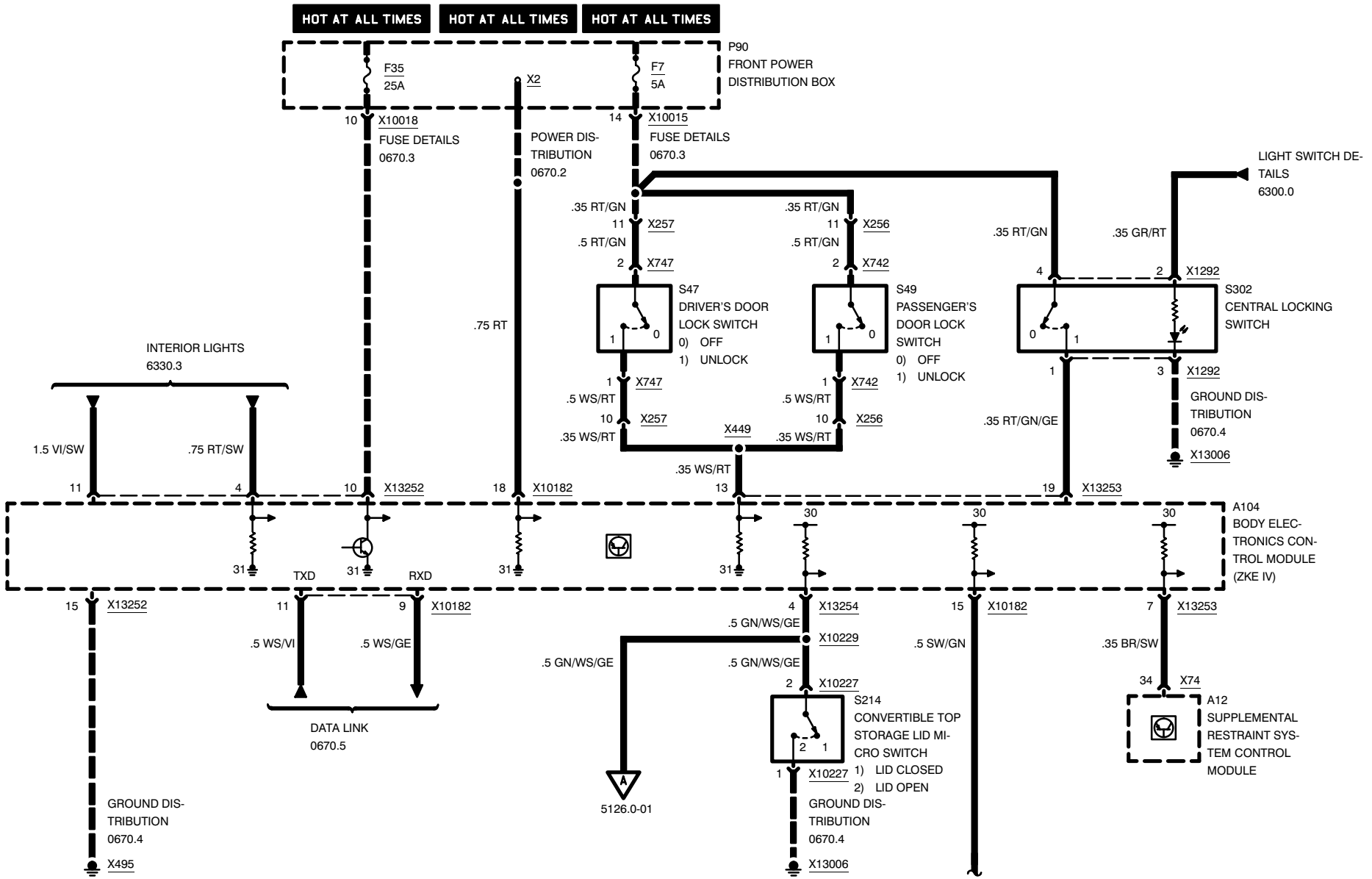
ZKE CENTRAL LOCKING (ZV)

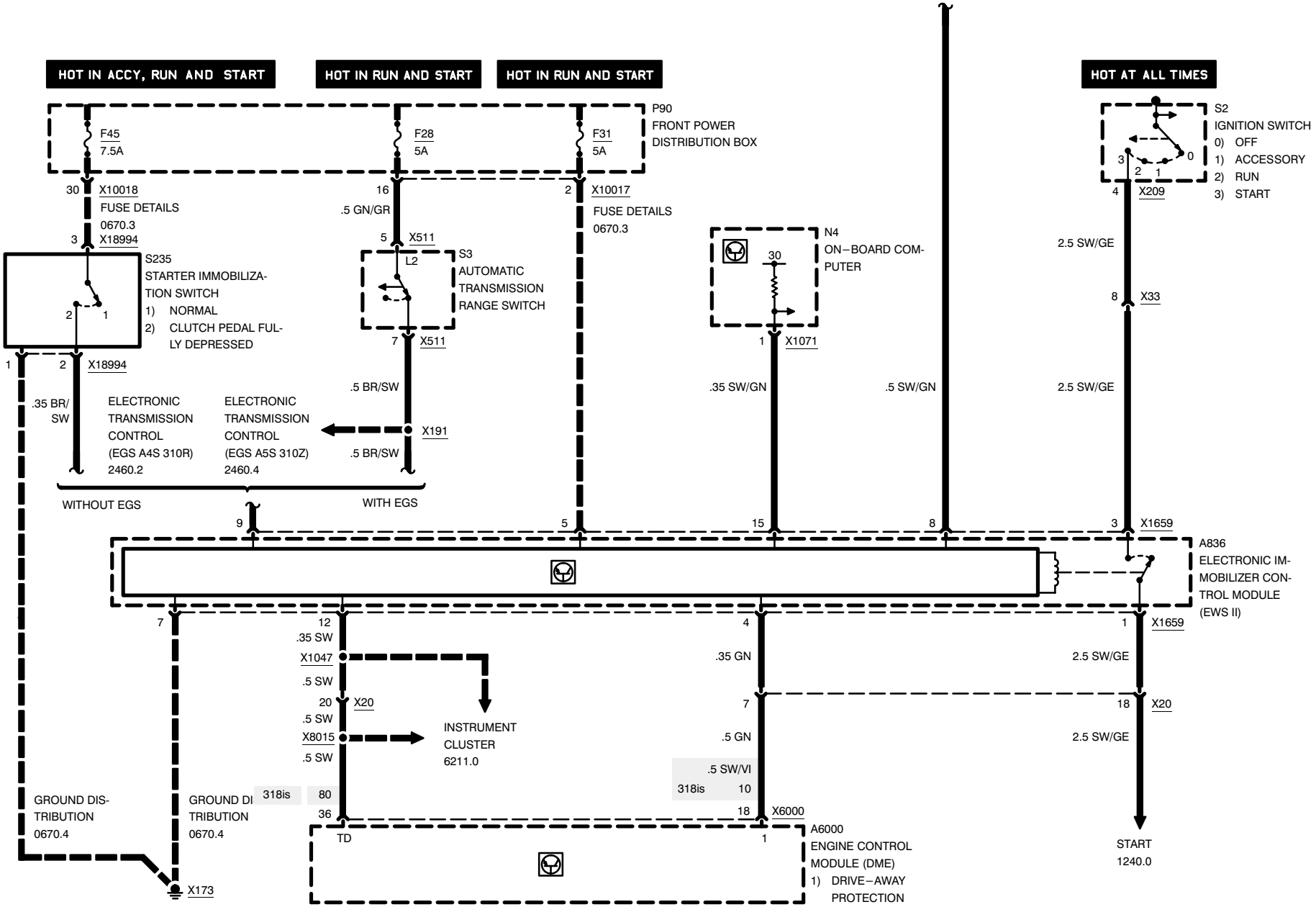
OUTPUT DETAILS




HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F7
5A
X10015
FUSE DETAILS
0670.3
.5 WS/
SW
.5 WS/
GN
X257
1.5 SW
X462 (PARTIAL)
X273
X644
M15
LEFT REAR DOOR
LOCK MOTOR
1) LOCK
2) UNLOCK
1.5 BL/
GR
1.5
WS
X646
M14
RIGHT REAR
DOOR LOCK MO-
TOR
1) LOCK
2) UNLOCK
5126.0-00
1.5 BL/GR
X453 (PARTIAL)
X455
(PARTIAL)
HOT AT ALL TIMES
.5 WS/GN
X256
.35 WS/BR/GE
.35
WS/
GR
5126.0-02
.5 GN/
WS/GE
X10226
K117
TRUNK LID
RELAY
TWO–DOOR
FOUR–DOOR
CONVERTIBLE
X311
X315
M17
TRUNK LOCK MO-
TOR
1) LOCK
2) UNLOCK
.35 WS/
SW
.35 WS/
GN
.35 WS/
BL
.5 WS/GN/GE
X10228
X13253
A104
BODY ELEC-
TRONICS CON-
TROL MODULE
(ZKE IV)
31

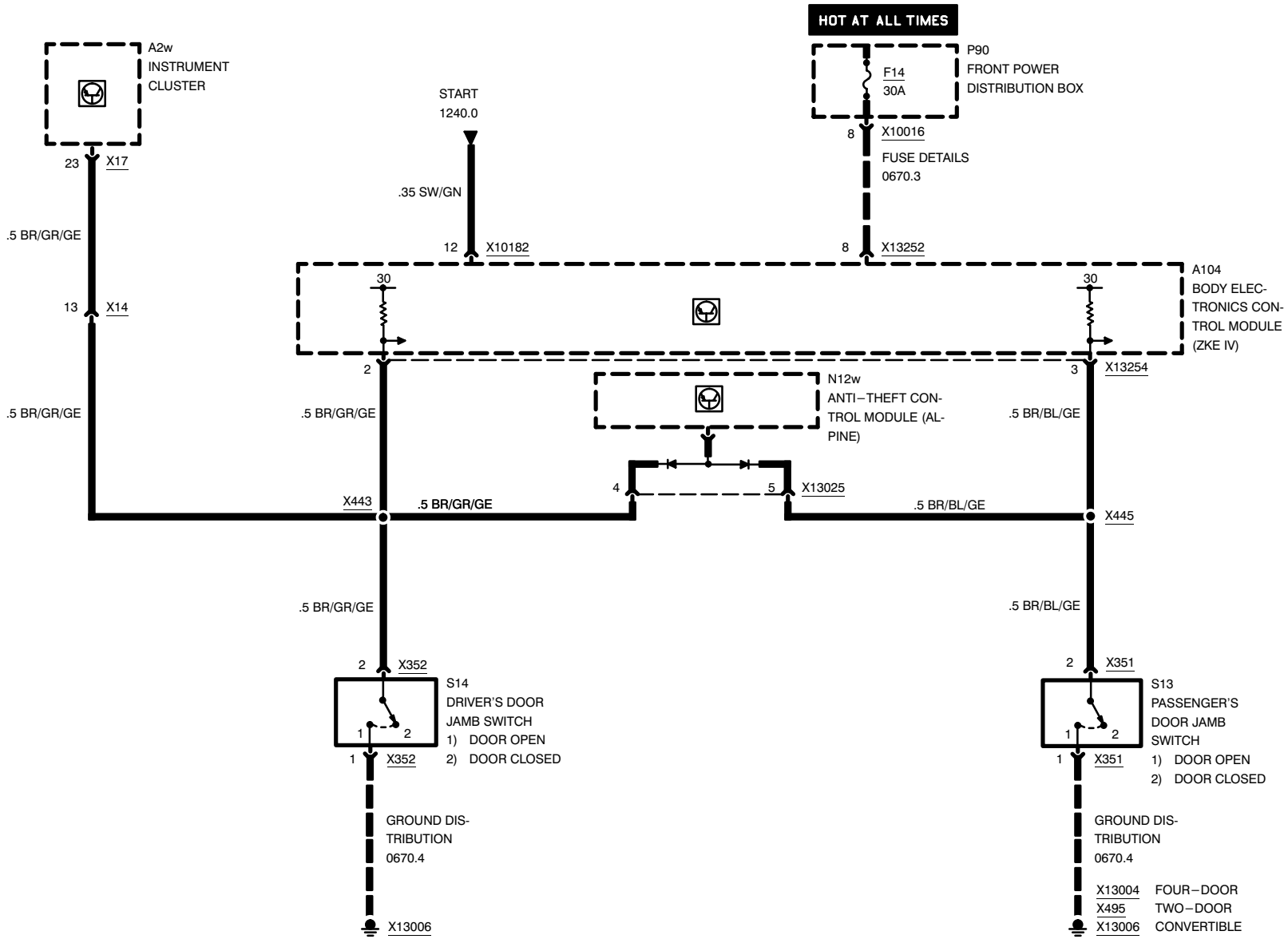
ZKE CENTRAL LOCKING (ZV)




HOT IN ACCY, RUN AND START
HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F45
7.5A
F28
5A
F31
5A
30
X10018
FUSE DETAILS
0670.3
3
X18994
16
.5 GN/GR
5
X511
2
X10017
FUSE DETAILS
0670.3
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
4
X209
2.5 SW/GE
8
X33
S235
STARTER IMMOBILIZATION SWITCH
1) NORMAL
2) CLUTCH PEDAL FULLY DEPRESSED
L2
S3
AUTOMATIC TRANSMISSION RANGE SWITCH
N4
ON−BOARD COMPUTER
30
1
X1071
.35 SW/GN
1
2
X18994
.35 BR/SW
ELECTRONIC TRANSMISSION CONTROL
(EGS A4S 310R)
2460.2
ELECTRONIC TRANSMISSION CONTROL
(EGS A5S 310Z)
2460.4
7
X511
.5 BR/SW
X191
.5 BR/SW
WITHOUT EGS
WITH EGS
.5 SW/GN
2.5 SW/GE
9
5
15
8
3
X1659
A836
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)
7
12
.35 SW
X1047
.5 SW
20
X20
.5 SW
X8015
.5 SW
INSTRUMENT CLUSTER
6211.0
4
.35 GN
7
.5 GN
.5 SW/VI
318is
10
18
X6000
1
X1659
2.5 SW/GE
18
X20
2.5 SW/GE
GROUND DISTRIBUTION
0670.4
GROUND DISTRIBUTION
0670.4
318is
80
36
TD
1
A6000
ENGINE CONTROL MODULE (DME)
1) DRIVE−AWAY PROTECTION
START
1240.0
X173

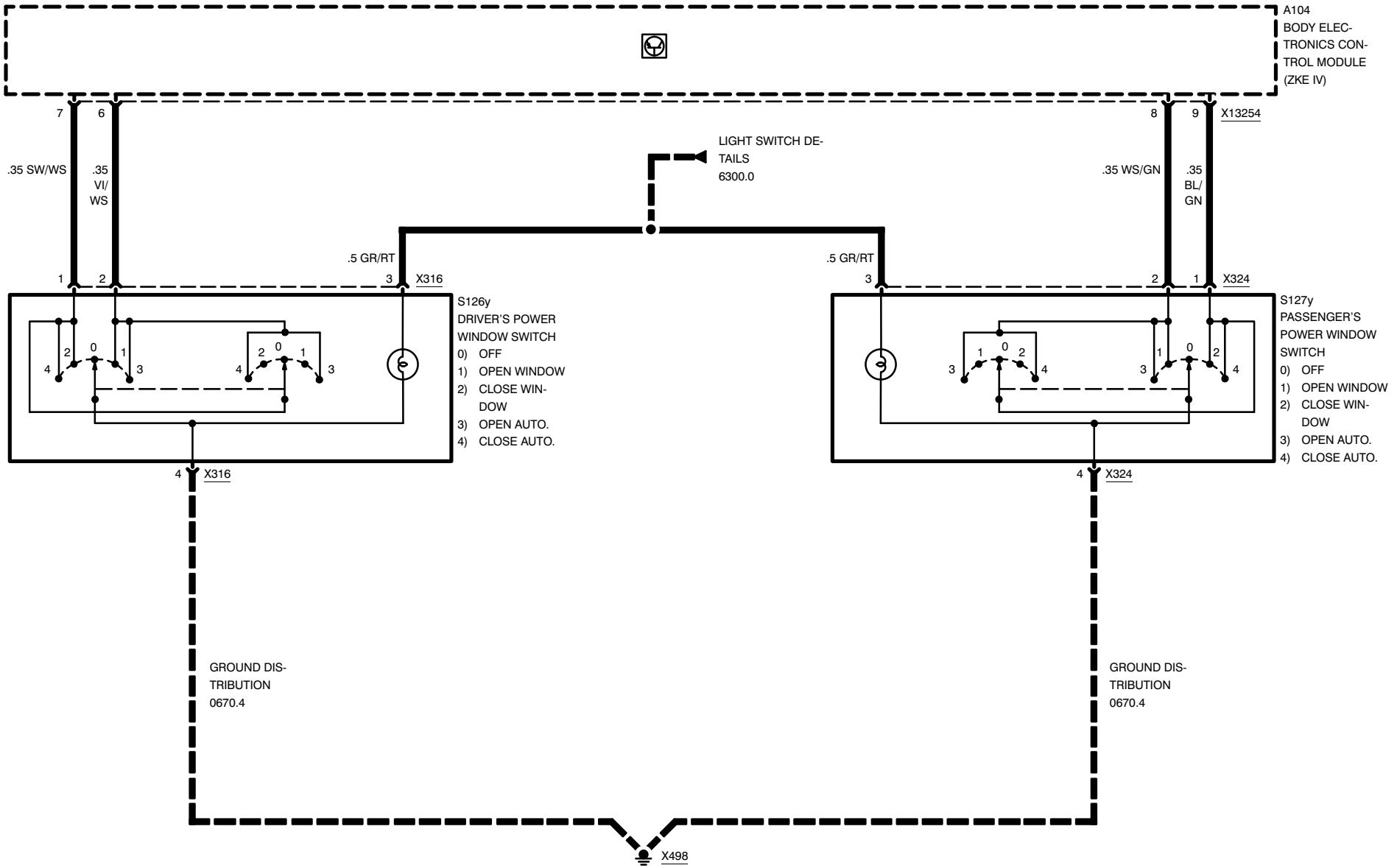
POWER WINDOWS (FH)

INPUT DETAILS



POWER WINDOWS (FH)

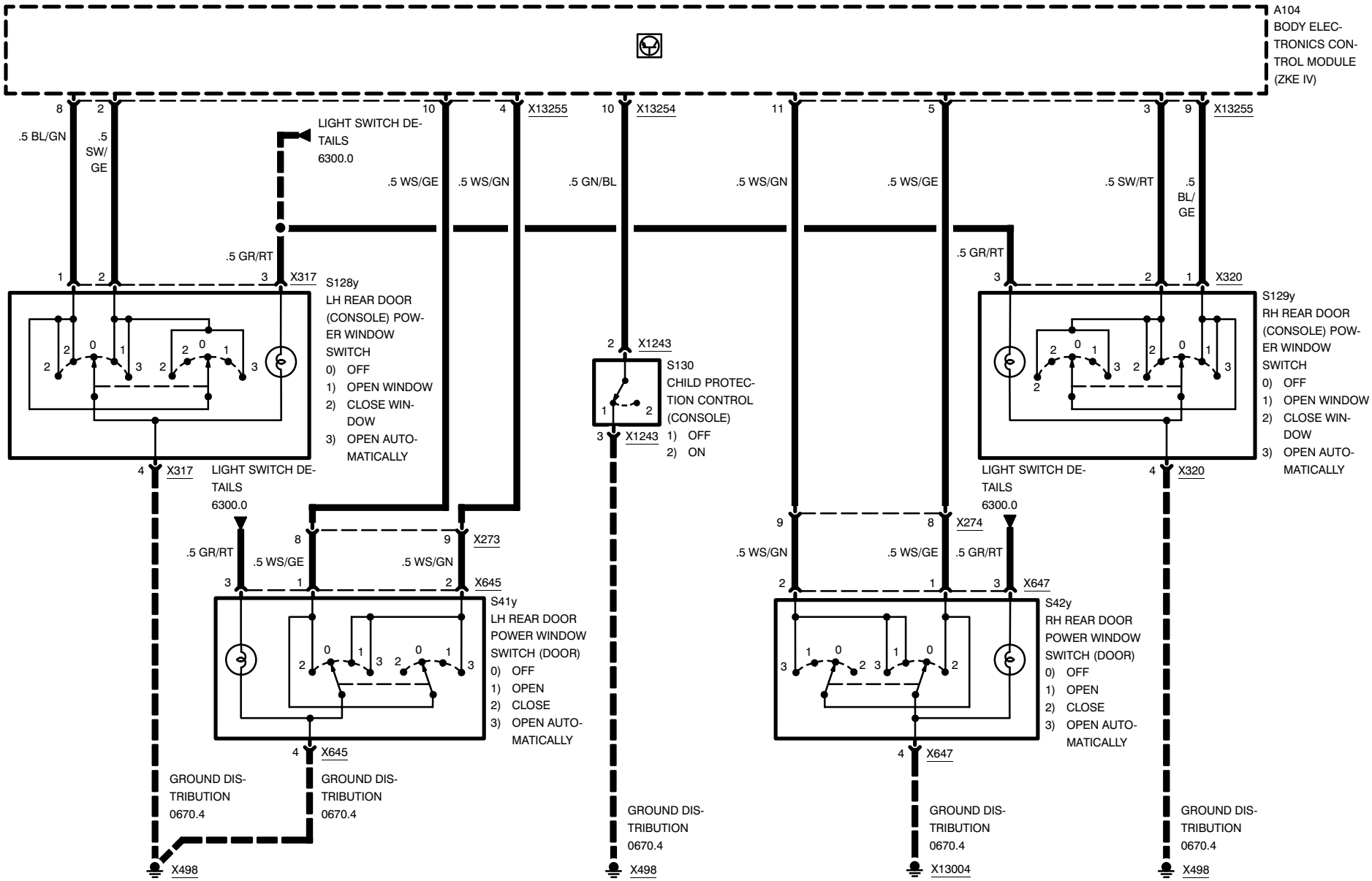
INPUT DETAILS



POWER WINDOWS (FH)

FOUR–DOOR

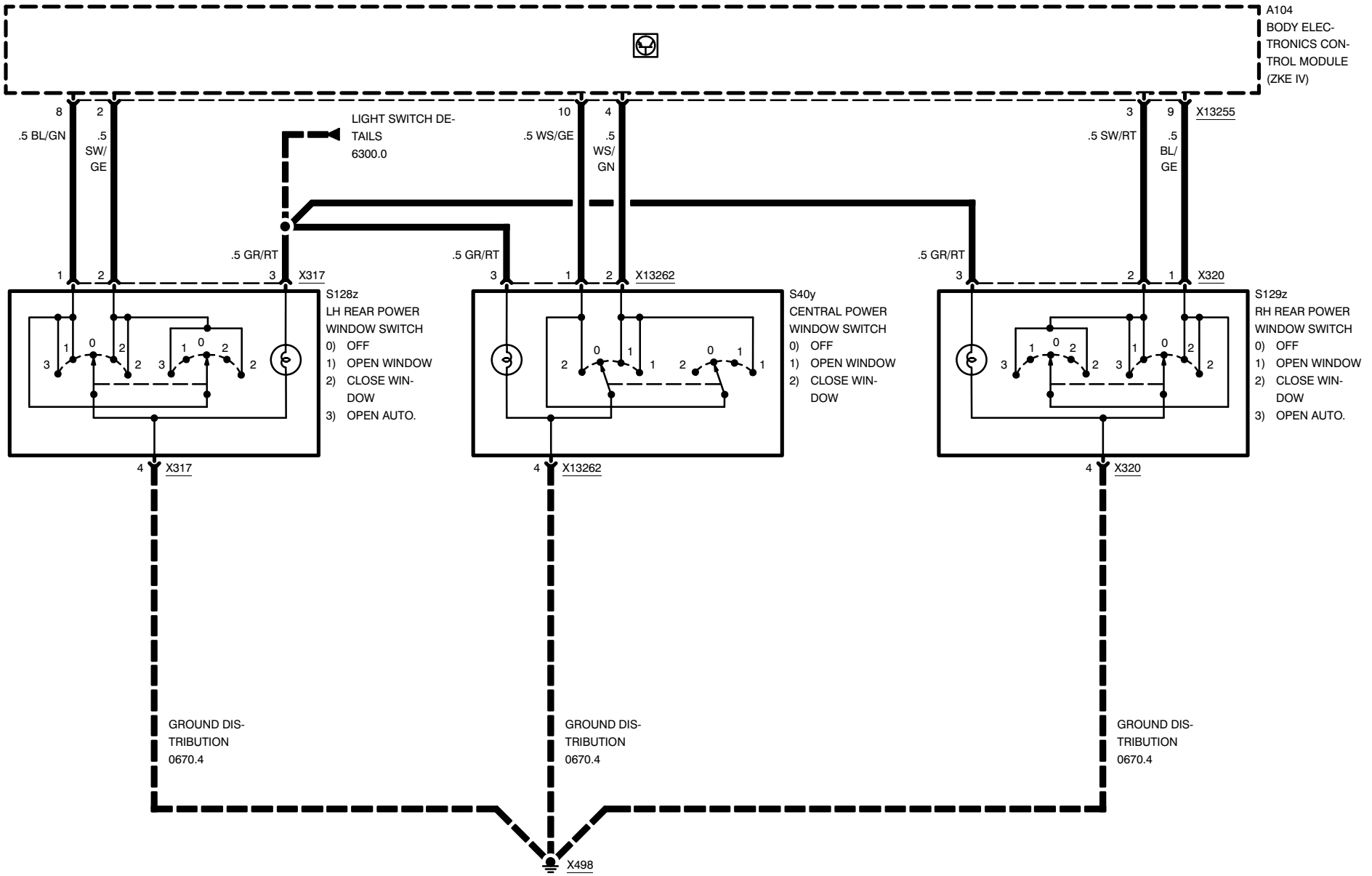
INPUT DETAILS



POWER WINDOWS (FH)

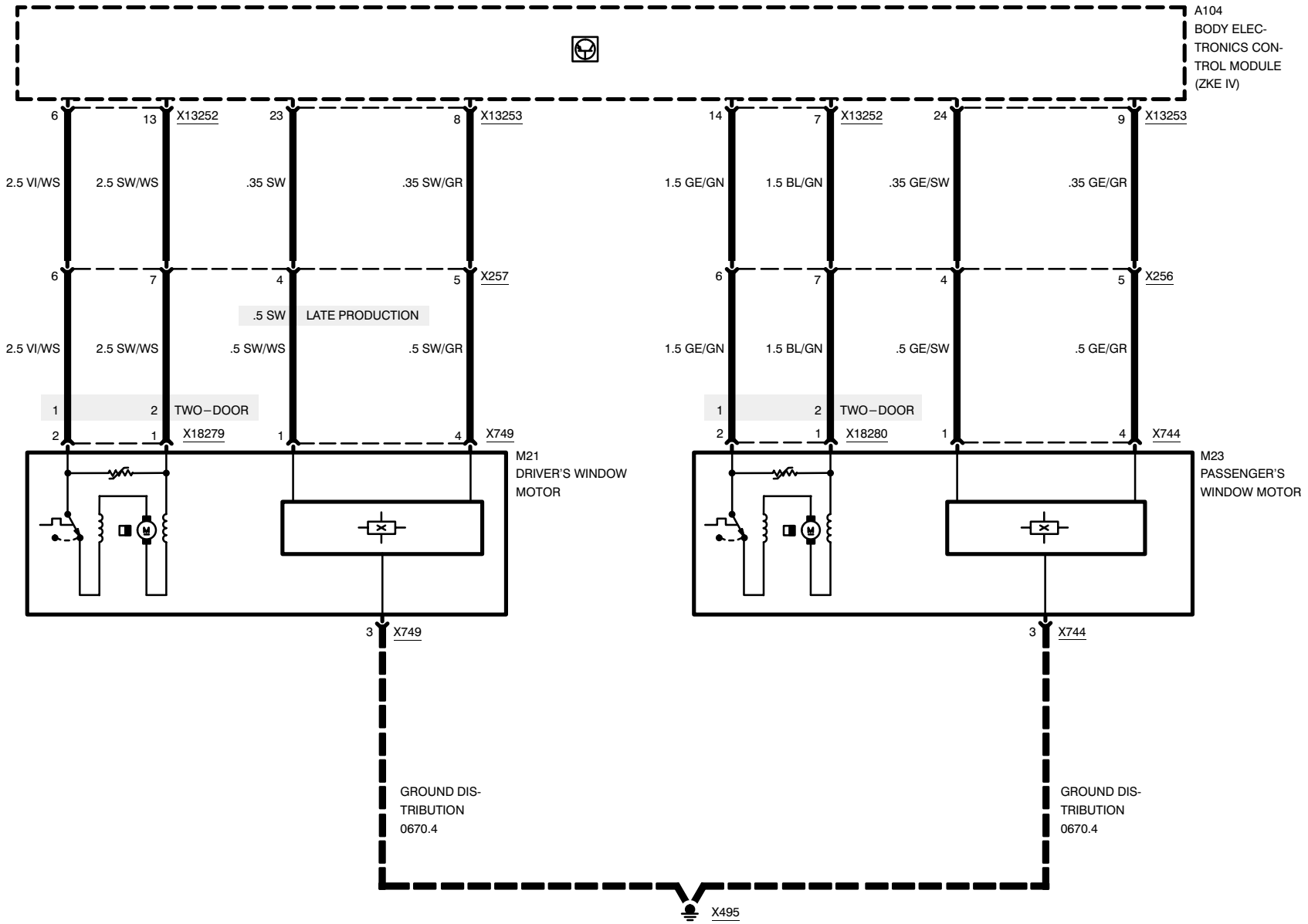
CONVERTIBLE

INPUT DETAILS



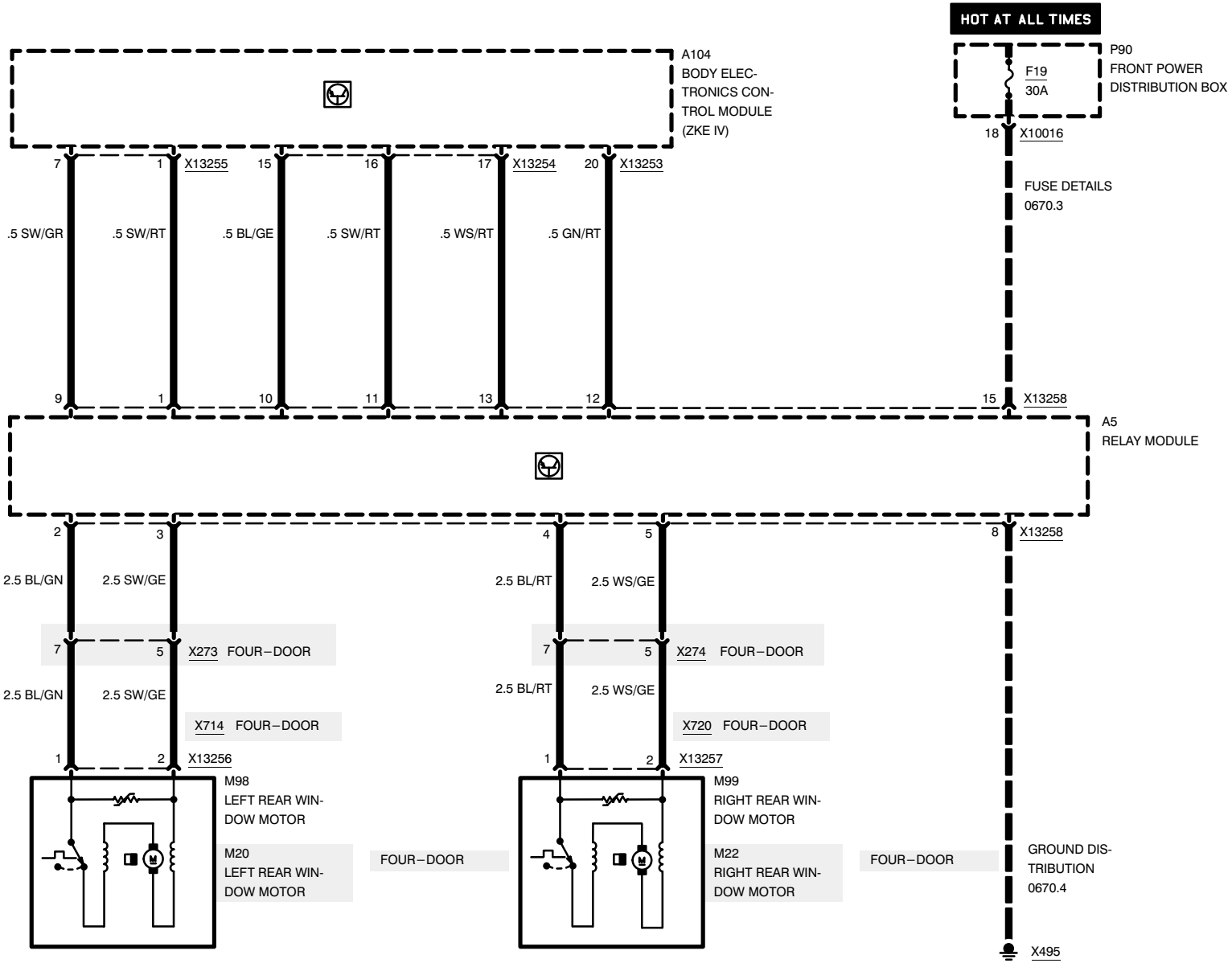
POWER WINDOWS (FH)

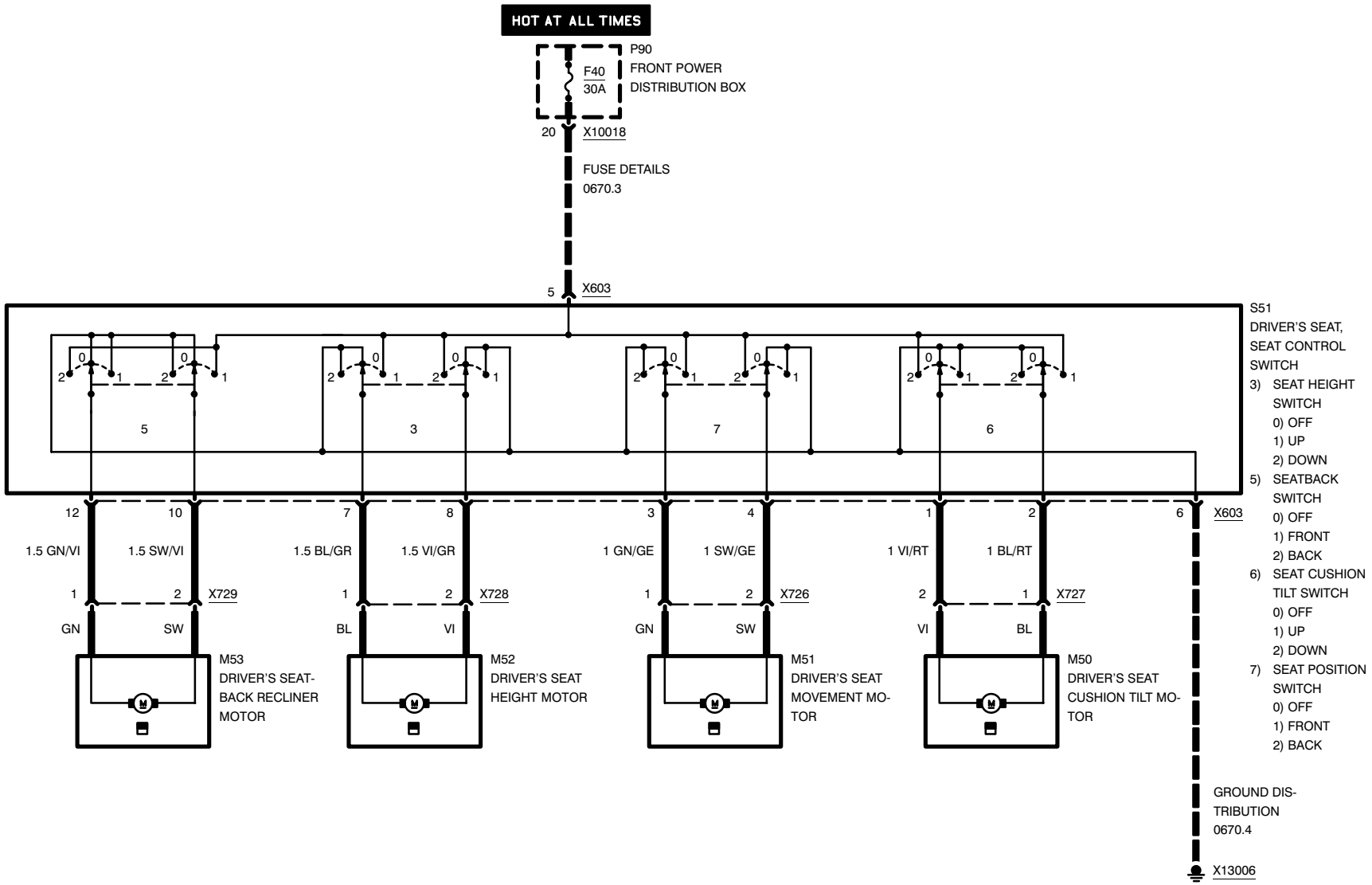
OUTPUT DETAILS

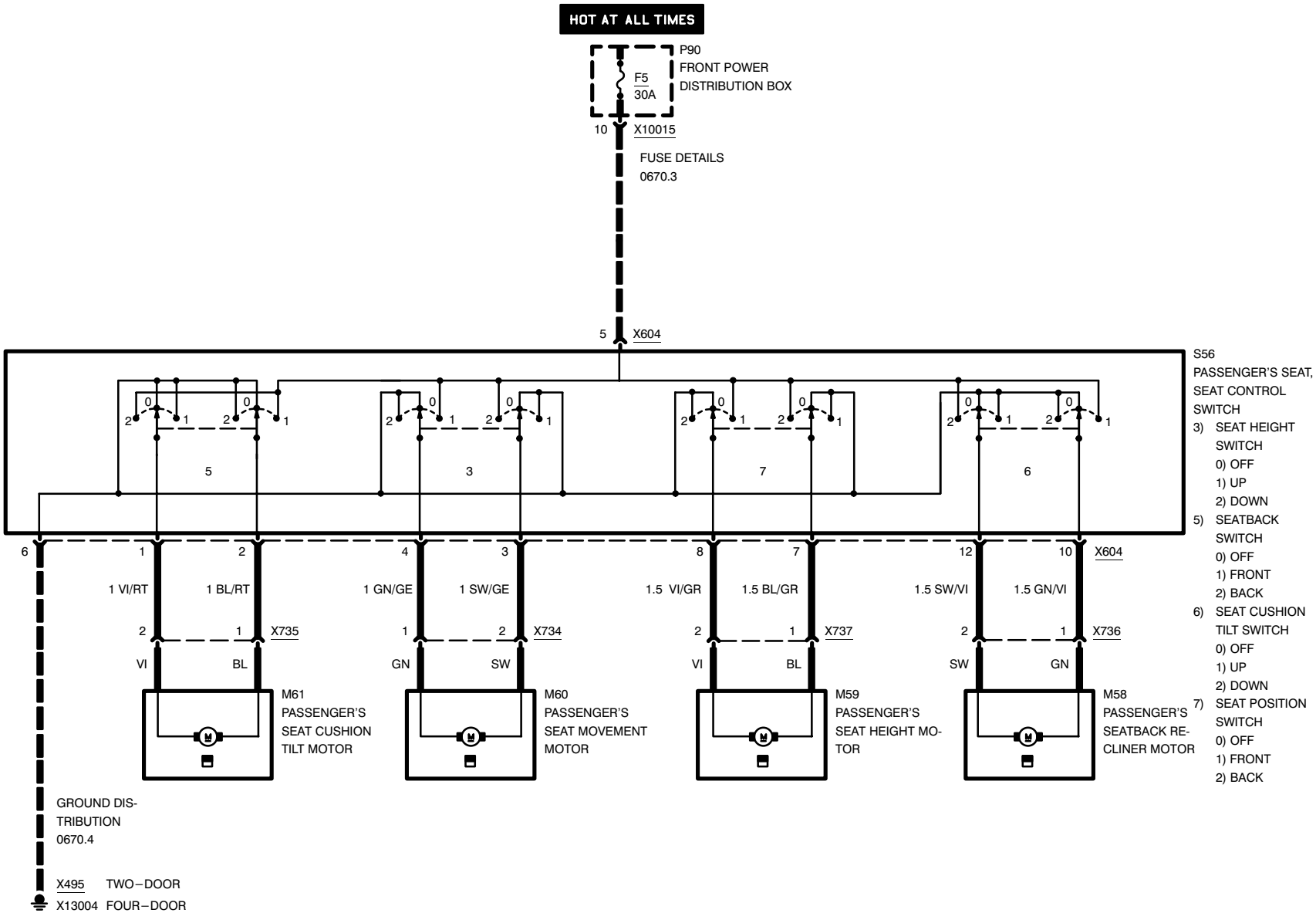


POWER WINDOWS (FH)

OUTPUT DETAILS

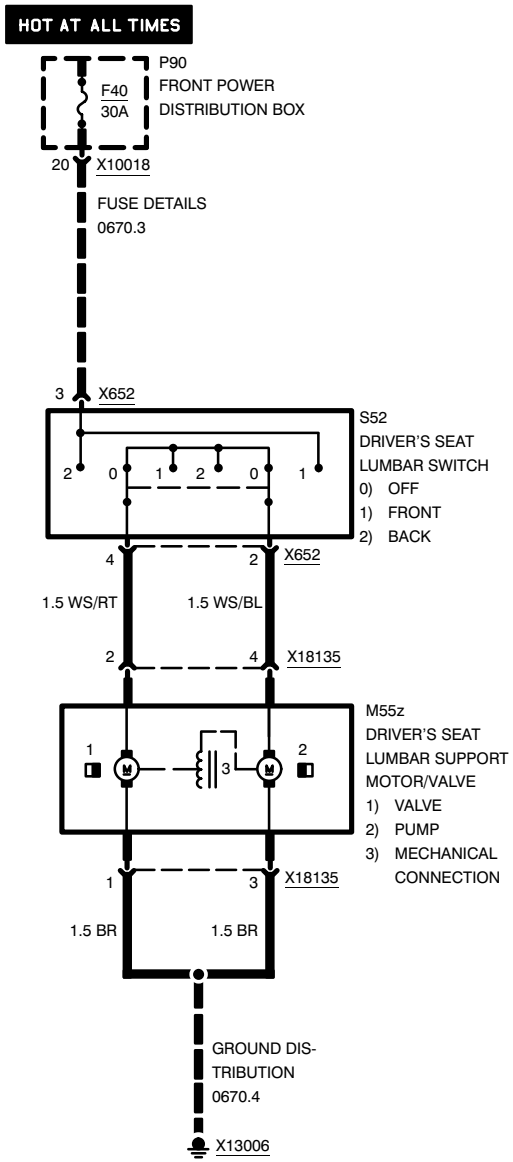



HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F40
30A
20
X10018
FUSE DETAILS
0670.3
5
X603
S51
DRIVER'S SEAT,
SEAT CONTROL
SWITCH
3) SEAT HEIGHT
SWITCH
0) OFF
1) UP
2) DOWN
5) SEATBACK
SWITCH
0) OFF
1) FRONT
2) BACK
6) SEAT CUSHION
TILT SWITCH
0) OFF
1) UP
2) DOWN
7) SEAT POSITION
SWITCH
0) OFF
1) FRONT
2) BACK
5
3
7
6
12
10
7
8
3
4
1
2
6
X603
1.5 GN/VI
1.5 SW/VI
1.5 BL/GR
1.5 VI/GR
1 GN/GE
1 SW/GE
1 VI/RT
1 BL/RT
X729
X728
X726
X727
GN
SW
BL
VI
GN
SW
VI
BL
M53
DRIVER'S SEAT-
BACK RECLINER
MOTOR
M52
DRIVER'S SEAT
HEIGHT MOTOR
M51
DRIVER'S SEAT
MOVEMENT MO-
TOR
M50
DRIVER'S SEAT
CUSHION TILT MO-
TOR
GROUND DIS-
TRIBUTION
0670.4
X13006

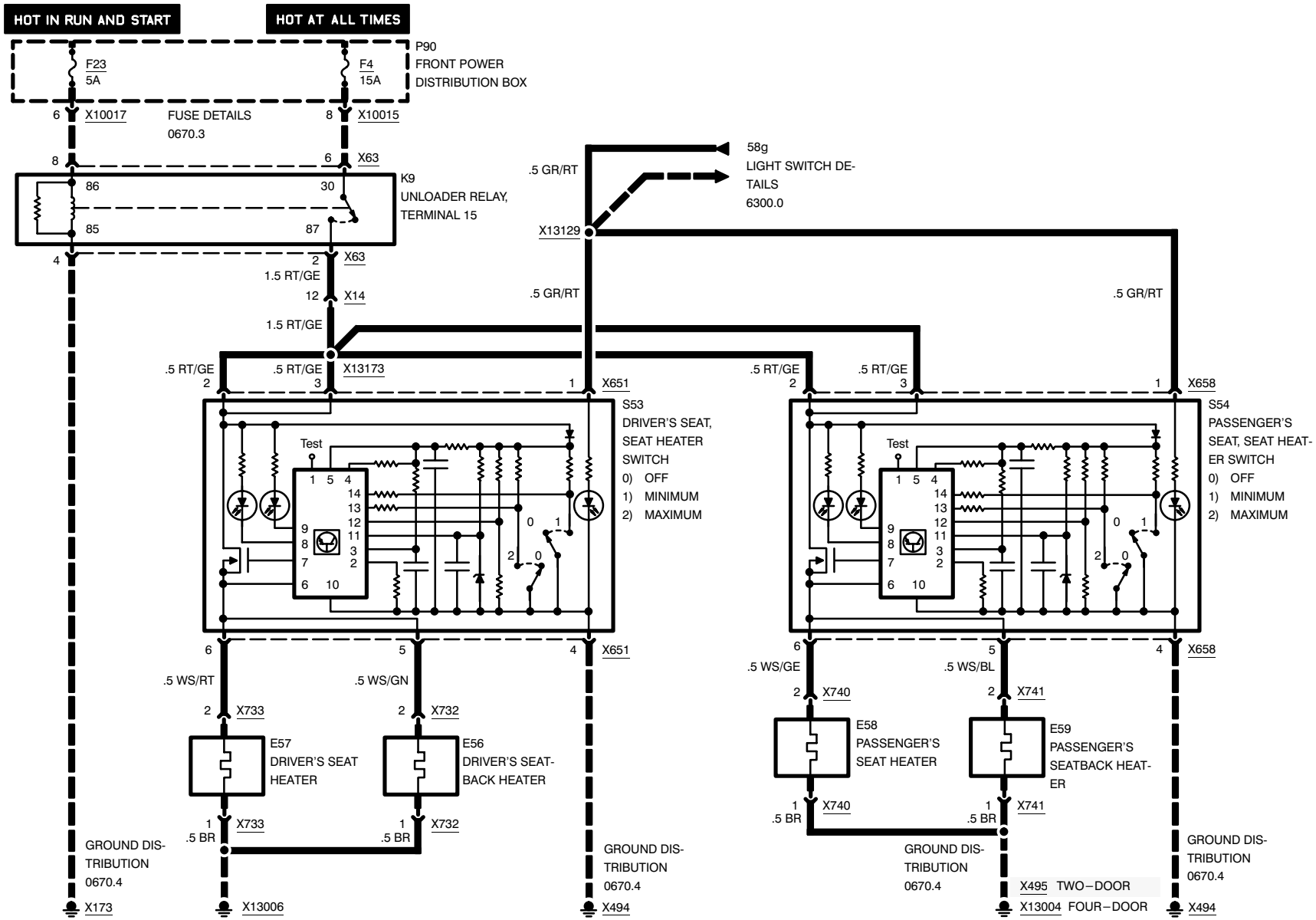

HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F5
30A
10
X10015
FUSE DETAILS
0670.3
5
X604
S56
PASSENGER'S SEAT,
SEAT CONTROL
SWITCH
3) SEAT HEIGHT
SWITCH
0) OFF
1) UP
2) DOWN
5) SEATBACK
SWITCH
0) OFF
1) FRONT
2) BACK
6) SEAT CUSHION
TILT SWITCH
0) OFF
1) UP
2) DOWN
7) SEAT POSITION
SWITCH
0) OFF
1) FRONT
2) BACK
5
3
7
6
6
1
2
4
3
8
7
12
10
X604
1 VI/RT
1 BL/RT
1 GN/GE
1 SW/GE
1.5 VI/GR
1.5 BL/GR
1.5 SW/VI
1.5 GN/VI
2
1
X735
1
2
X734
2
1
X737
2
1
X736
VI
BL
GN
SW
VI
BL
SW
GN
M61
PASSENGER'S
SEAT CUSHION
TILT MOTOR
M60
PASSENGER'S
SEAT MOVEMENT
MOTOR
M59
PASSENGER'S
SEAT HEIGHT MO-
TOR
M58
PASSENGER'S
SEATBACK RE-
CLINER MOTOR
GROUND DIS-
TRIBUTION
0670.4
X495 TWO–DOOR
X13004 FOUR–DOOR

POWER SEATS AND LUMBAR SUPPORT

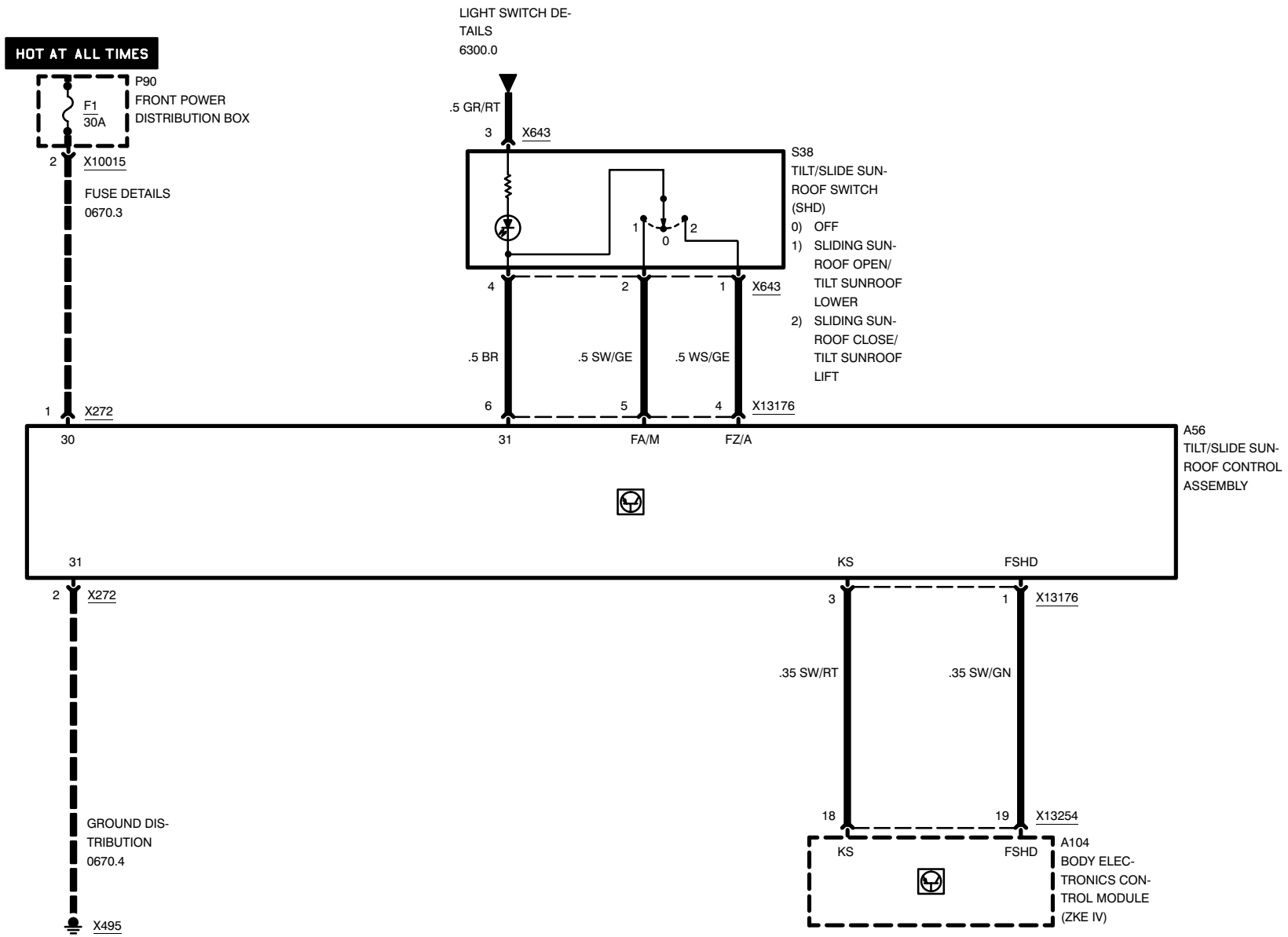
DRIVER'S SIDE – LUMBAR SUPPORT



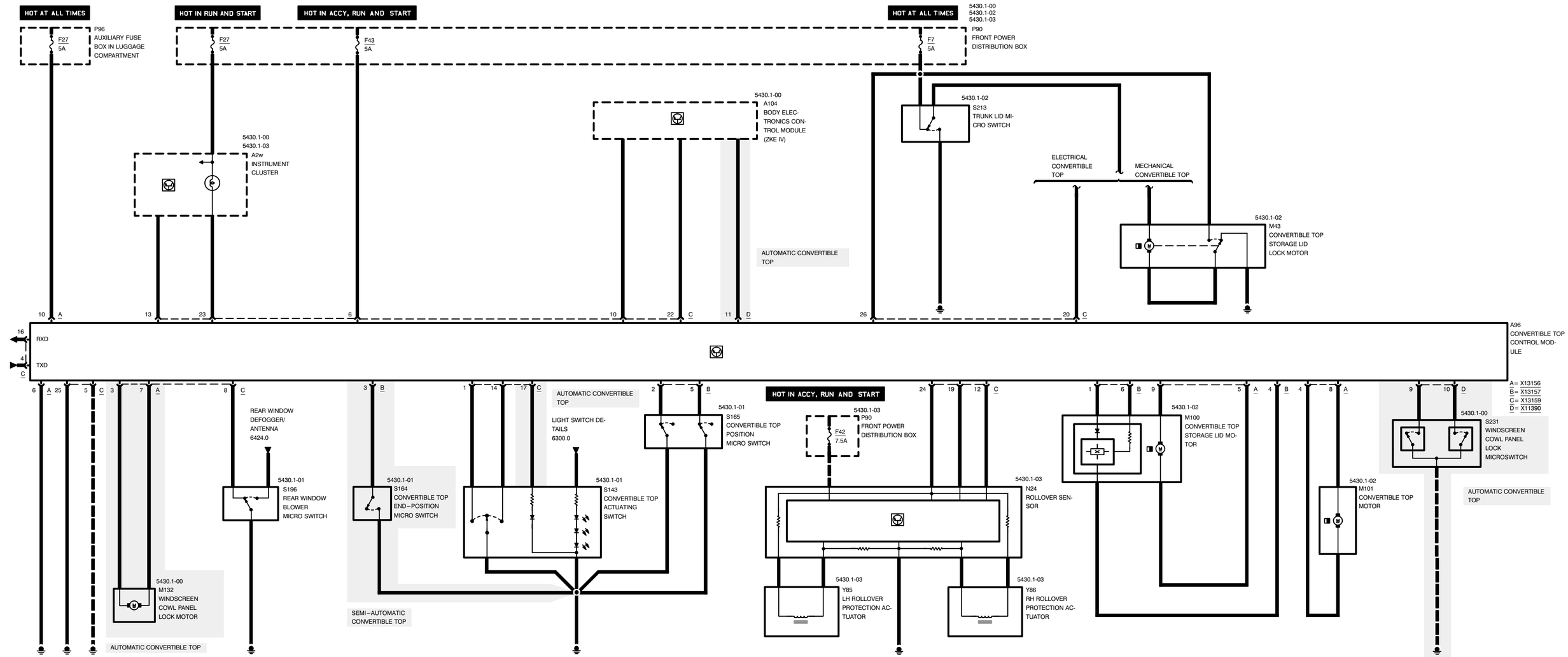
HEATED SEATS

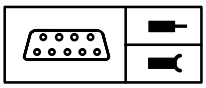


POWER TILT/SLIDE SUNROOF (SHD)



03/98 5430.1 1997
03/98 5430.1 1997





Pin Assignments

A = X13156	10 Pins, black
B = X13157	6 Pins, black
C = X13159	26 Pins, black
D = X11390	12 Pins, black

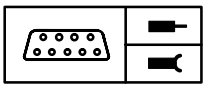
X13156

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3	E/A	Activate engine	Windscreen cowl panel locking (automatic convertible top)
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground point
7	E/A	Activate engine	Windscreen cowl panel locking (automatic convertible top)
8	E/A	Control signal	Convertible top motor
9	E/A	Control signal	Convertible top storage lid motor
10	E	Plus supply 12V	Front power distribution box

X13157

Pin	Type	Description/Function	Connection
1	A	Plus supply	Position sensor (convertible top storage lid motor)
2	E	Position signal	Convertible top position micro switch
3	E	Position signal	Convertible top end position micro switch (semi-automatic convertible top)
4	E	Component ground	Position sensor (convertible top storage lid motor)
5	E	Position signal	Convertible top position micro switch
6	E	Control signal	Position sensor (convertible top storage lid motor)

E = Input, A = Output, M = Ground

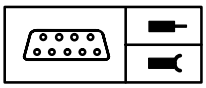


Pin Assignments

X13159

Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box, fuse 43
7		Not used	
8	E	Rear window blower signal	Rear window blower micro switch
9		Not used	
10	A	Data signal	Body electronics control module
11		Not used	
12	A	Data signal	Roll over sensor
13	A	Speed signal	Instrument cluster
14	E	Top closed signal	Convertible top actuating switch
15		Not used	
16	A	RxD data signal	Data link connector
17	A	LED	Convertible top actuating switch
18		Not used	
19	A	Data signal	Roll over sensor
20	E	Trunk lid signal	Trunk lid micro switch
21		Not used	
22	A	Data signal	Body electronics control module
23	A	Roll over signal	Instrument cluster
24	A	Data signal	Roll over sensor
25	M	Ground	Ground point
26	E	Power supply	Front power distribution box, fuse 7

E = Input, A = Output, M = Ground



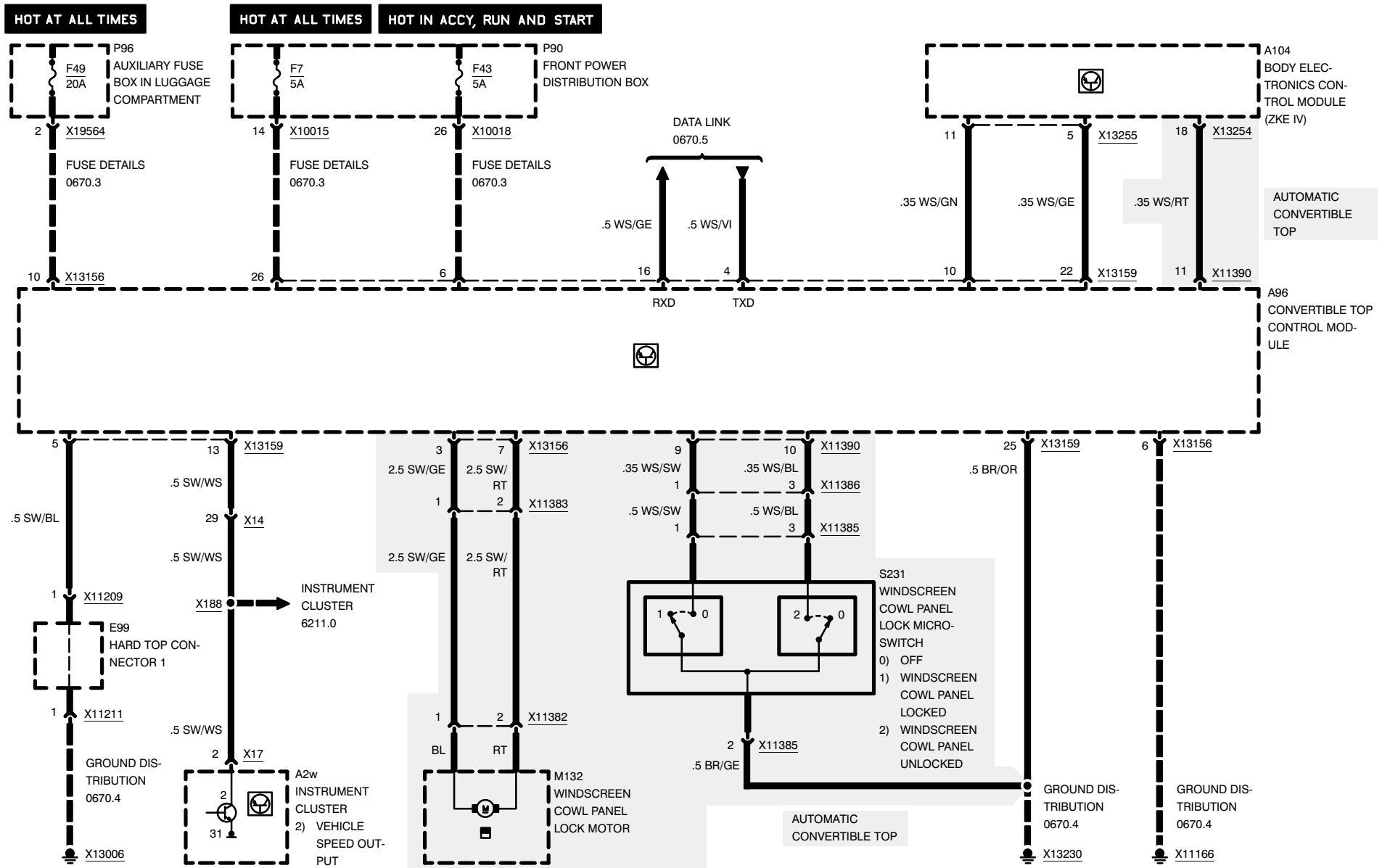
Pin Assignments

X11390

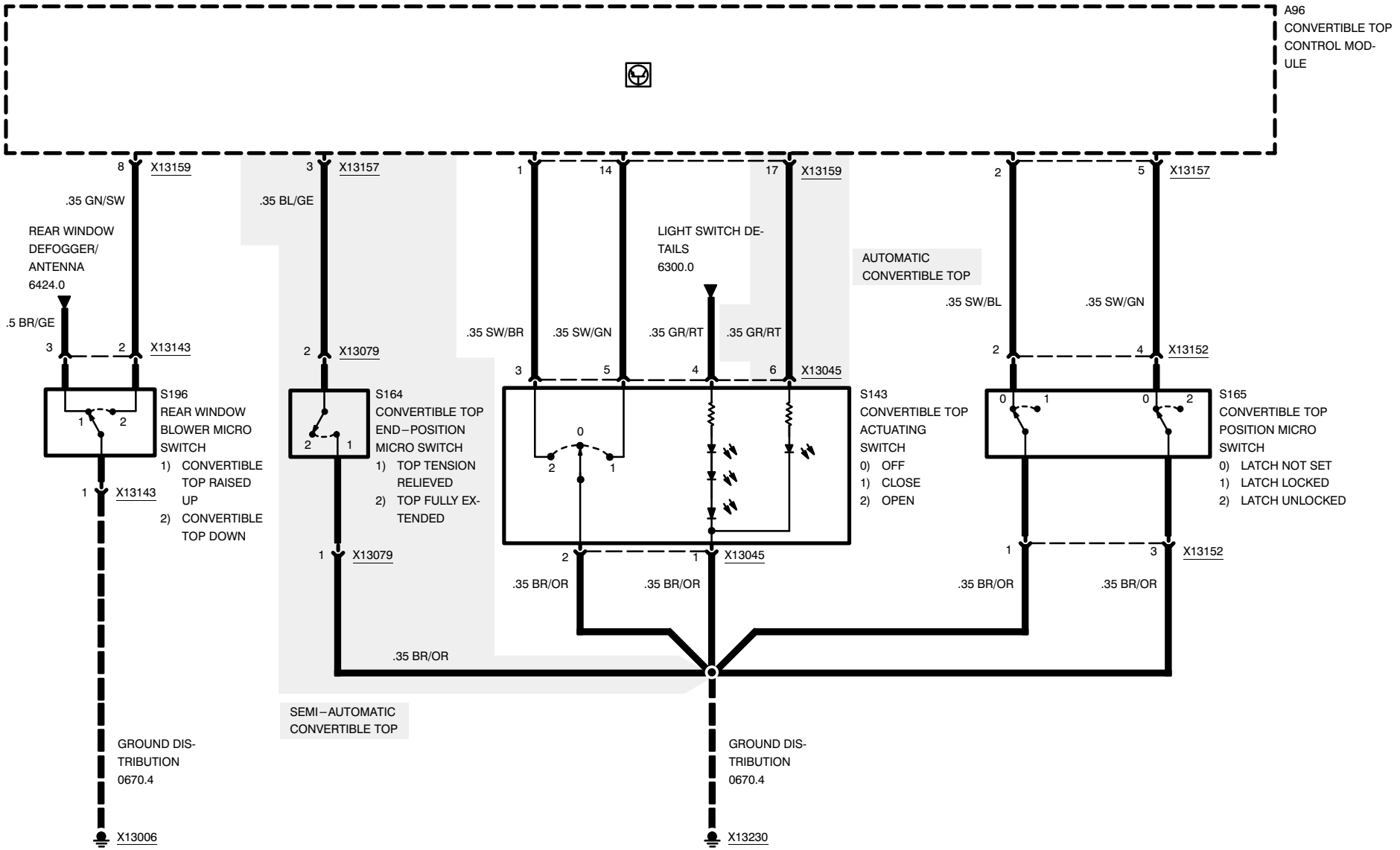
Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9	E/A	ML VER	Windscreen cowl panel lock microswitch (automatic convertible top)
10	E/A	ML UNLOCKED	Windscreen cowl panel UNLOCKED (automatic convertible top)
11	E/A	ML KOSCHL	Body electronics control module (ZKE IV) (automatic convertible top)
12		Not used	

E = Input, A = Output, M = Ground

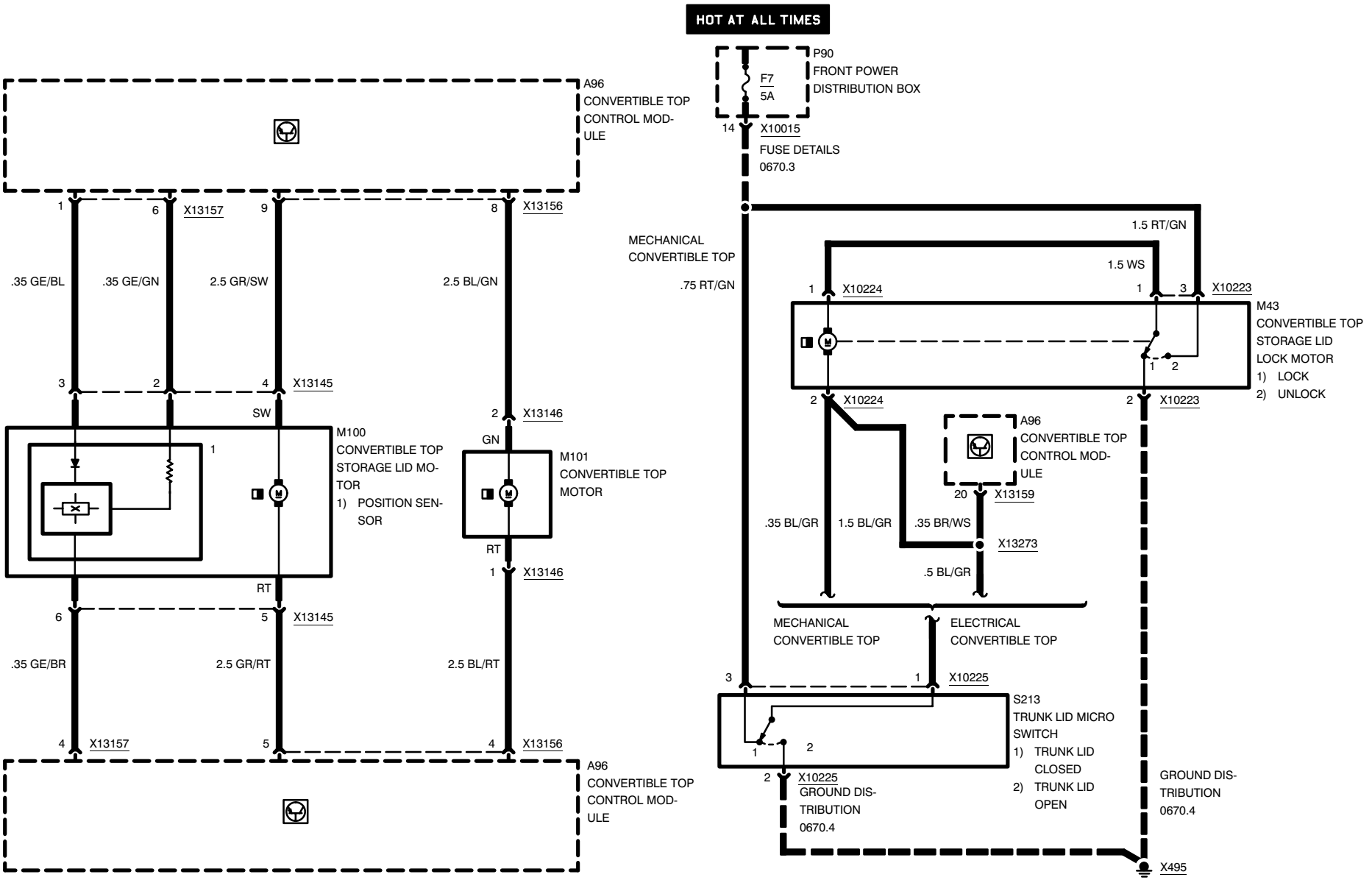
ELECTRICAL CONVERTIBLE TOP



ELECTRICAL CONVERTIBLE TOP

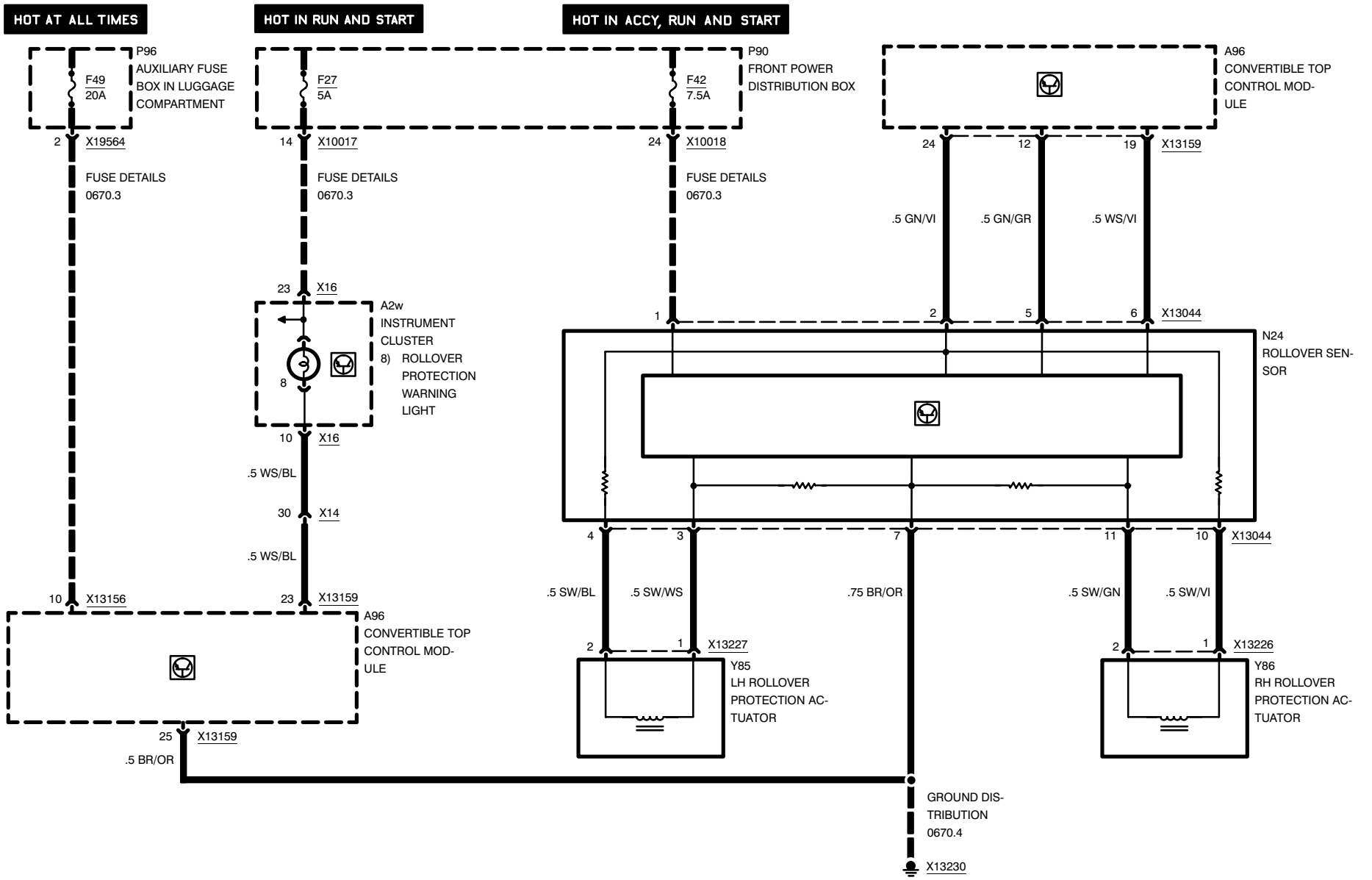


ELECTRICAL CONVERTIBLE TOP

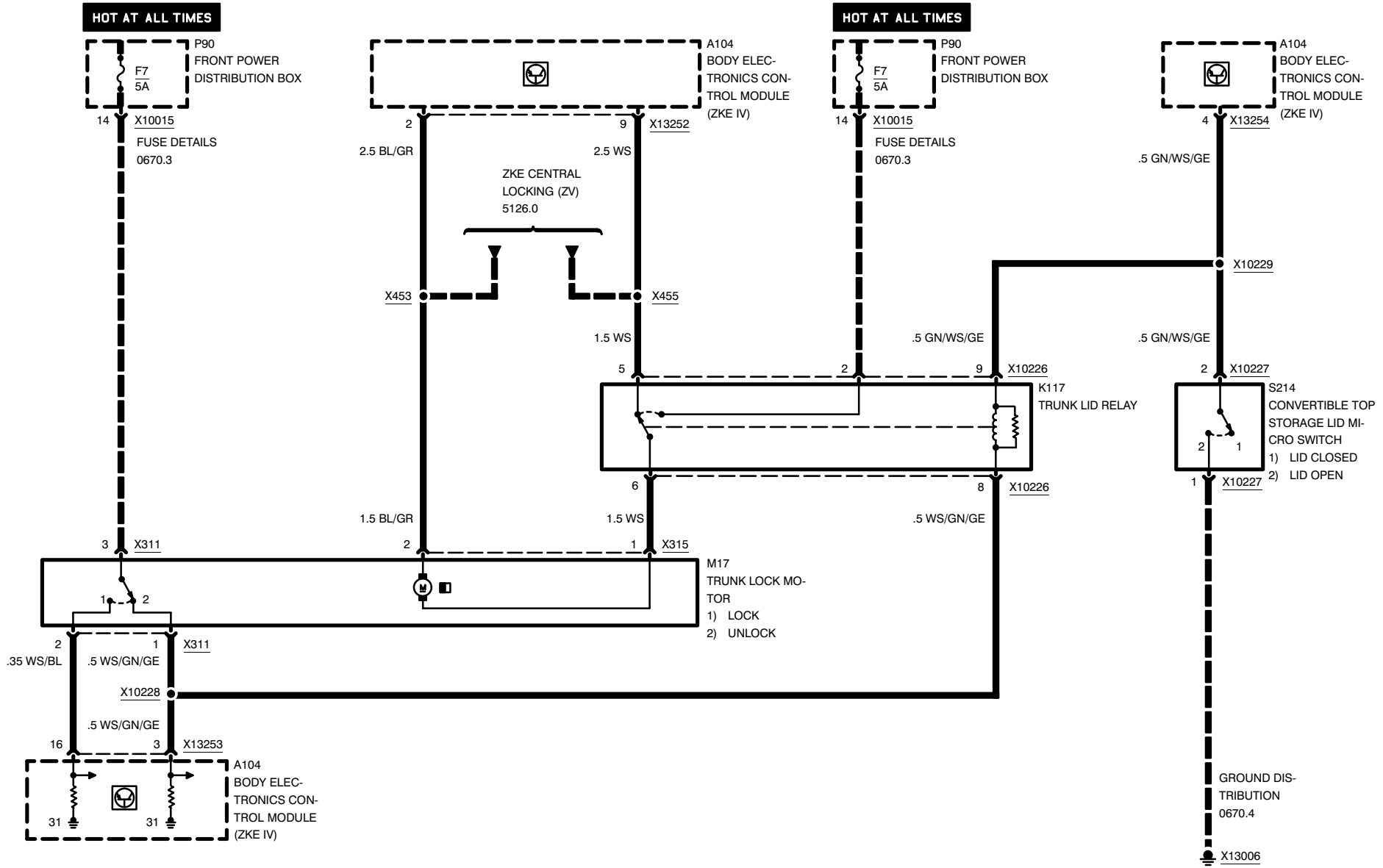


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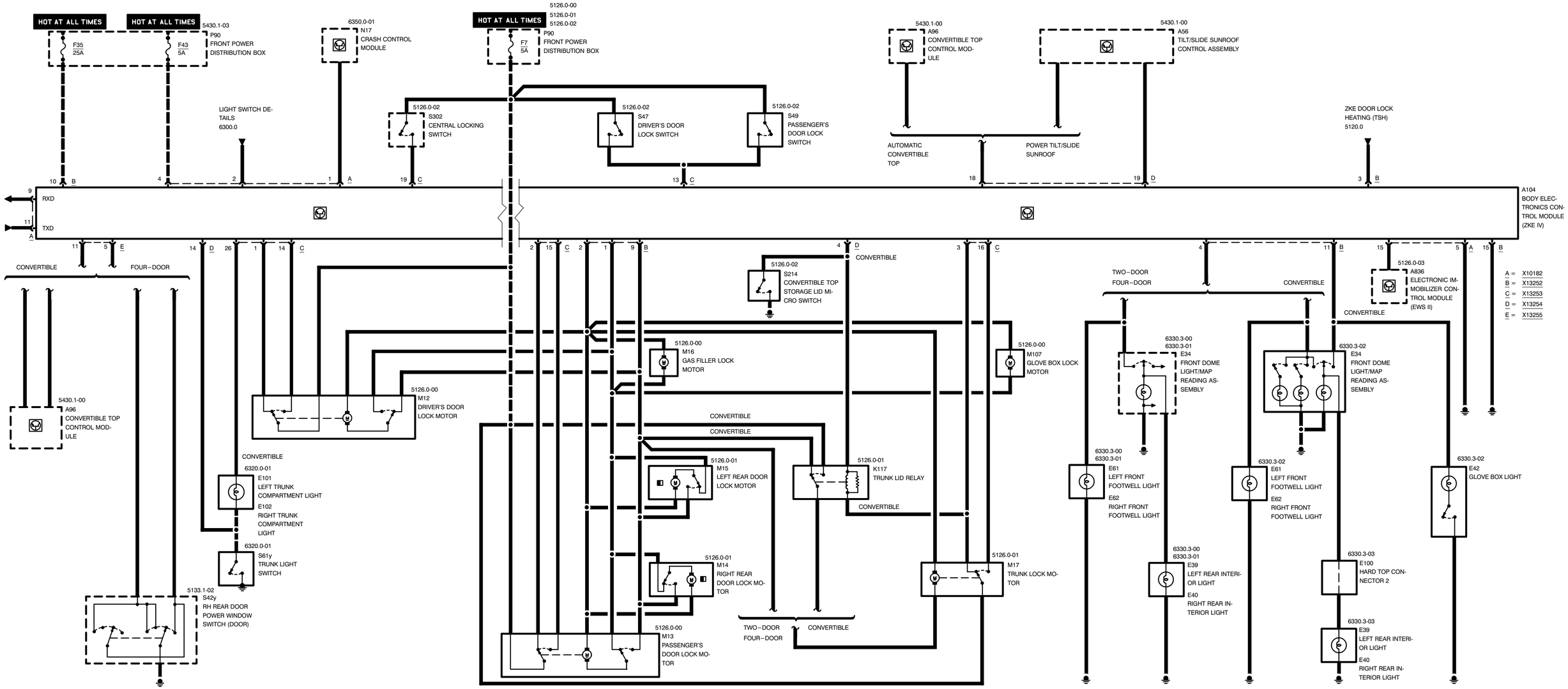
ROLLOVER SENSOR



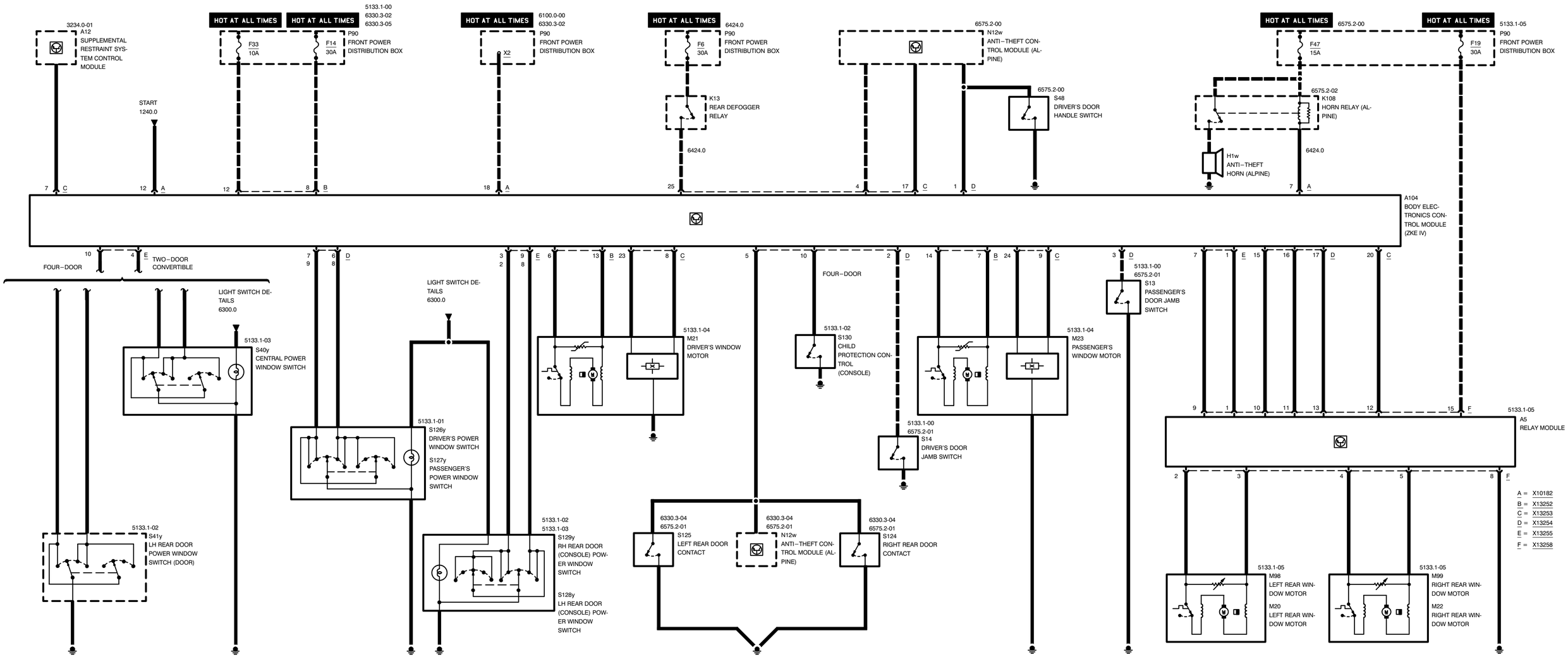
ELECTRICAL CONVERTIBLE TOP

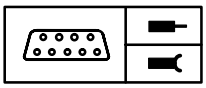


03/98 6100.0a 1997
03/98 6100.0a 1997



03/98 6100.0b 1997
03/98 6100.0b 1997





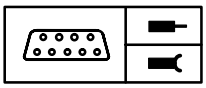
Pin Assignments

E = X10182	18 Pins, black
F = X13252	15 Pins, black
G = X13253	26 Pins, yellow
H = X13254	26 Pins, green
I = X13255	26 Pins, nature
J = X13258	15 Pins, white

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3		Not used	
4	E	Voltage supply, terminal R	Front power distribution box, fuse 43
5	M	Ground	Ground
6		Not used	
7	A	Activate relay	Horn relay (Alpine)
8		Not used	
9	A	RxD diagnosis signal	Data link connector
10		Not used	
11	E/A	TxD diagnosis signal	Data link connector
12	E	Start signal	Starter
13		Not used	
14		Not used	
15	A	Drive away protection	Electronic immobilizer control module (EWS II)
16		Not used	
17		Not used	
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



Pin Assignments

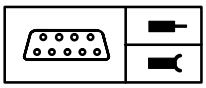
X13252

Pin	Type	Description/Function	Connection
1	E	Power lock signal	Door lock motors
2	A	Voltage supply	All lock motors
3	A	Power supply	Door look heating
4	E	Automatic interior light signal	Interior light
5		Not used	
6	A	Voltage supply	Power window motor driver's door
7	A	Voltage supply	Power window motor passenger's door
8	E	Power supply	Front power distribution box, fuse 14
9	E	Lock signal	Lock motor & trunk lid relay
10	E	Power supply	Front power distribution box, fuse 35
11	A	Voltage supply	Interior lights, engine compartment light, glove box light
12	E	Power supply	Front power distribution box, fuse 33
13	E	Motor signal	Power window motor driver's door
14	E	Motor signal	Power window motor passenger's door
15	M	Ground	Ground

X13253

Pin	Type	Description/Function	Connection
1	E	Position signal	Door lock motor driver's door
2	E	Position signal	Door lock motor passenger's door
3	E	Lock signal trunk lid	Trunk lid lock motor, trunk lid relay
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Inertia switch
8	E	Revolution signal	Power window motor driver's door
9	E	Revolution signal	Power window motor passenger's door
10		Not used	

E = Input, A = Output, M = Ground



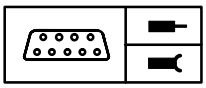
Pin Assignments

Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal driver's door	Door lock motor driver's door
15	E	Lock signal passenger's door	Door lock motor passenger's door
16	E	Lock signal trunk lid	Trunk lid lock motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19	E	Central locking signal	Central locking switch
20	E/A	Data signal	Relay module
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window's motor driver's side
24	A	Voltage supply (revolution)	Power window's motor passenger's side
25	E	Rear defogger signal	Rear defogger relay
26	A	Voltage supply	Luggage compartment lights

X13254

Pin	Type	Description/Function	Connection
1	E	Door signal	Driver's door handle switch
2	E	Door signal	Door jamb switch driver's door
3	E	Door signal	Door jamb switch passenger's door
4	E	Convertible: trunk lid signal Four-door: door signal	Trunk lid switch/trunk lid relay Door jump switch left rear
5	E	Door signal	Door jump switch right rear
6	E	OPEN signal	Power window switch driver's door
7	E	CLOSE signal	Power window switch driver's door
8	E	OPEN signal	Power window switch passenger's door
9	E	CLOSE signal	Power window switch passenger's door
10	E	Four-door: child protection signal	Child protection switch
11		Not used	

E = Input, A = Output, M = Ground



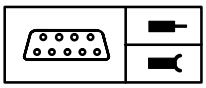
Pin Assignments

Pin	Type	Description/Function	Connection
12		Not used	
13		Not used	
14	E	Trunk lid signal	Trunk lid switch
15	A	DATA signal	Relay module
16	A	DATA signal	Relay module
17	A	DATA signal	Relay module
18	A	Comfortable locking	Pop out window relay
19	A	Release sunroof	Sunroof control assembly
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13255

Pin	Type	Description/Function	Connection
1	A	DATA signal	Relay module
2	E	OPEN signal	Power window switch left rear
3	E	OPEN signal	Power window switch right rear
4	E	Convertible: OPEN signal Four-door: OPEN signal	Main power window switch Driver's rear window switch
5	E	Convertible: DATA signal Four-door: CLOSE signal	Convertible top control module Passenger's rear window switch
6		Not used	
7	A	DATA signal	Relay module
8	E	CLOSE signal	Power window switch left rear
9	E	CLOSE signal	Power window switch right rear
10	E	Convertible: CLOSE signal Four-door: CLOSE signal	Main power window switch Driver's window switch

E = Input, A = Output, M = Ground



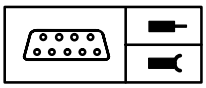
Pin Assignments

Pin	Type	Description/Function	Connection
11	E	Convertible: DATA signal Four-door: OPEN signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13258

Pin	Type	Description/Function	Connection
1	E	DATA signal	Central body electronic module
2	A	Voltage supply (motor)	Power window motor right rear
3	E	Signal	Power window motor right rear
4	E	Signal	Power window motor left rear
5	A	Voltage supply (motor)	Power window motor left rear
6		Not used	
7		Not used	
8	M	Ground	Ground
9	E	DATA signal	Central body electronic module
10	E/A	DATA signal	Central body electronic module
11	E/A	DATA signal	Central body electronic module

E = Input, A = Output, M = Ground

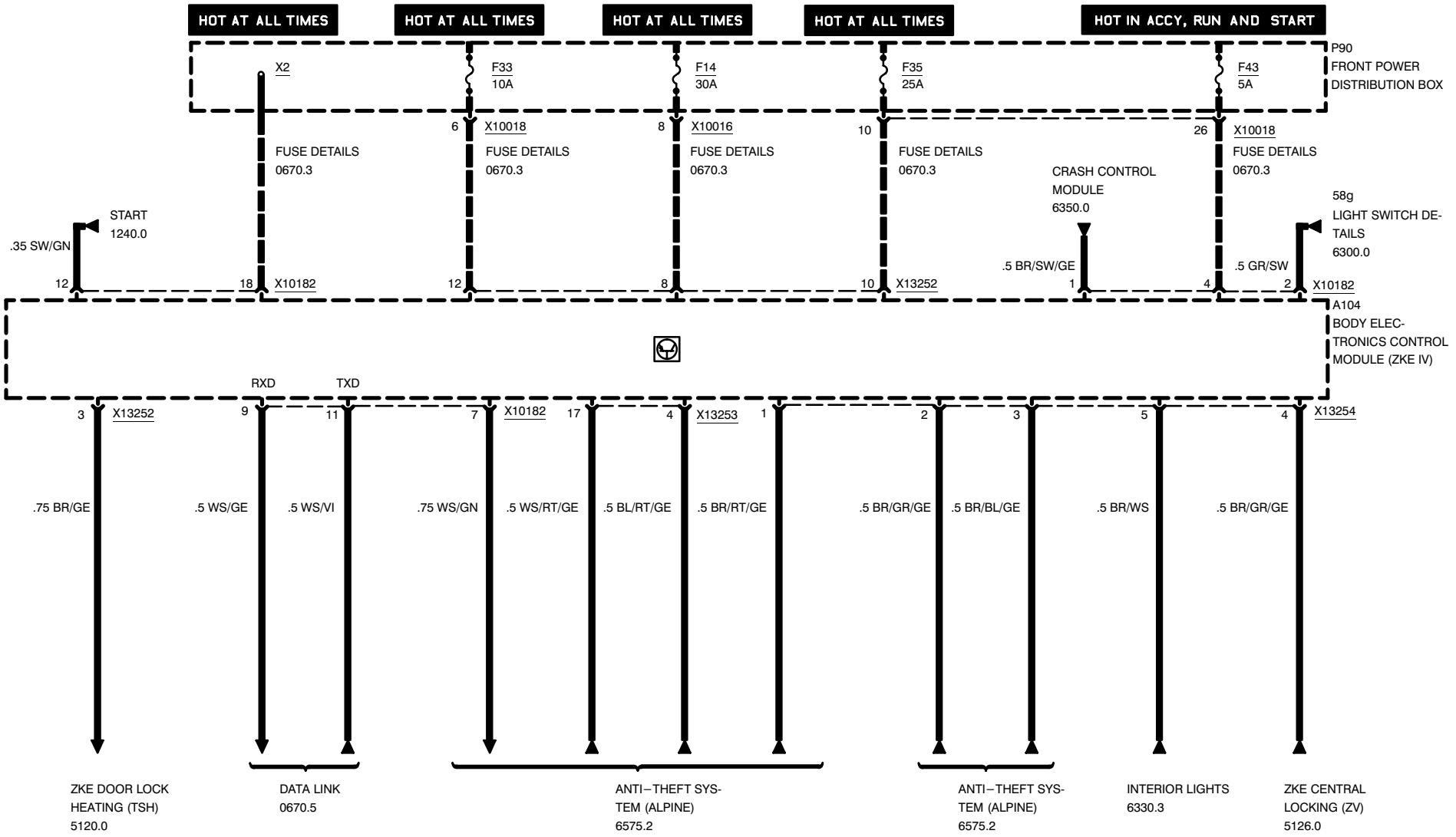


Pin Assignments

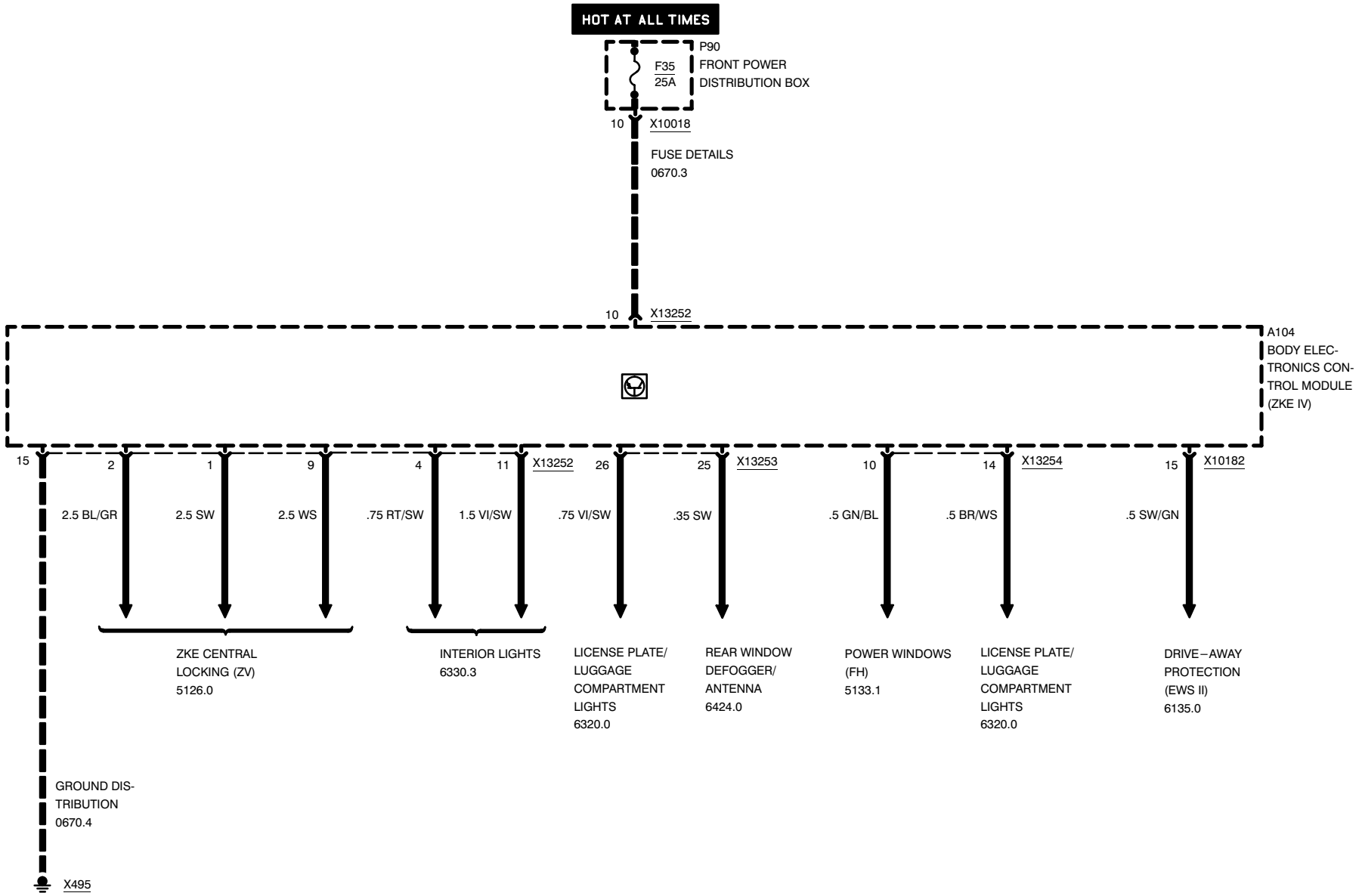
Pin	Type	Description/Function	Connection
12	E	DATA signal	Central body electronic module
13	E/A	DATA signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

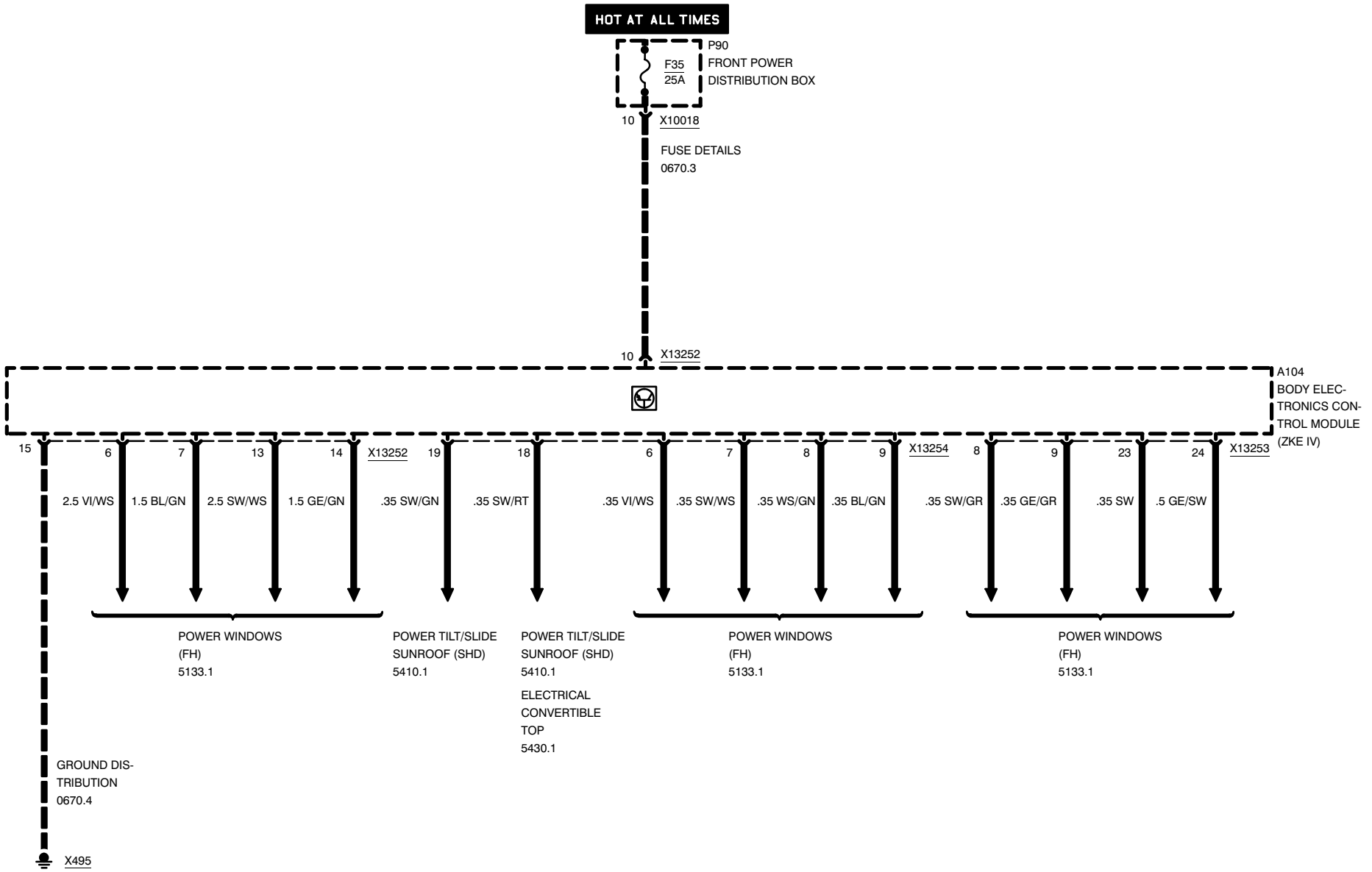
CENTRAL BODY ELECTRONICS (ZKE IV)



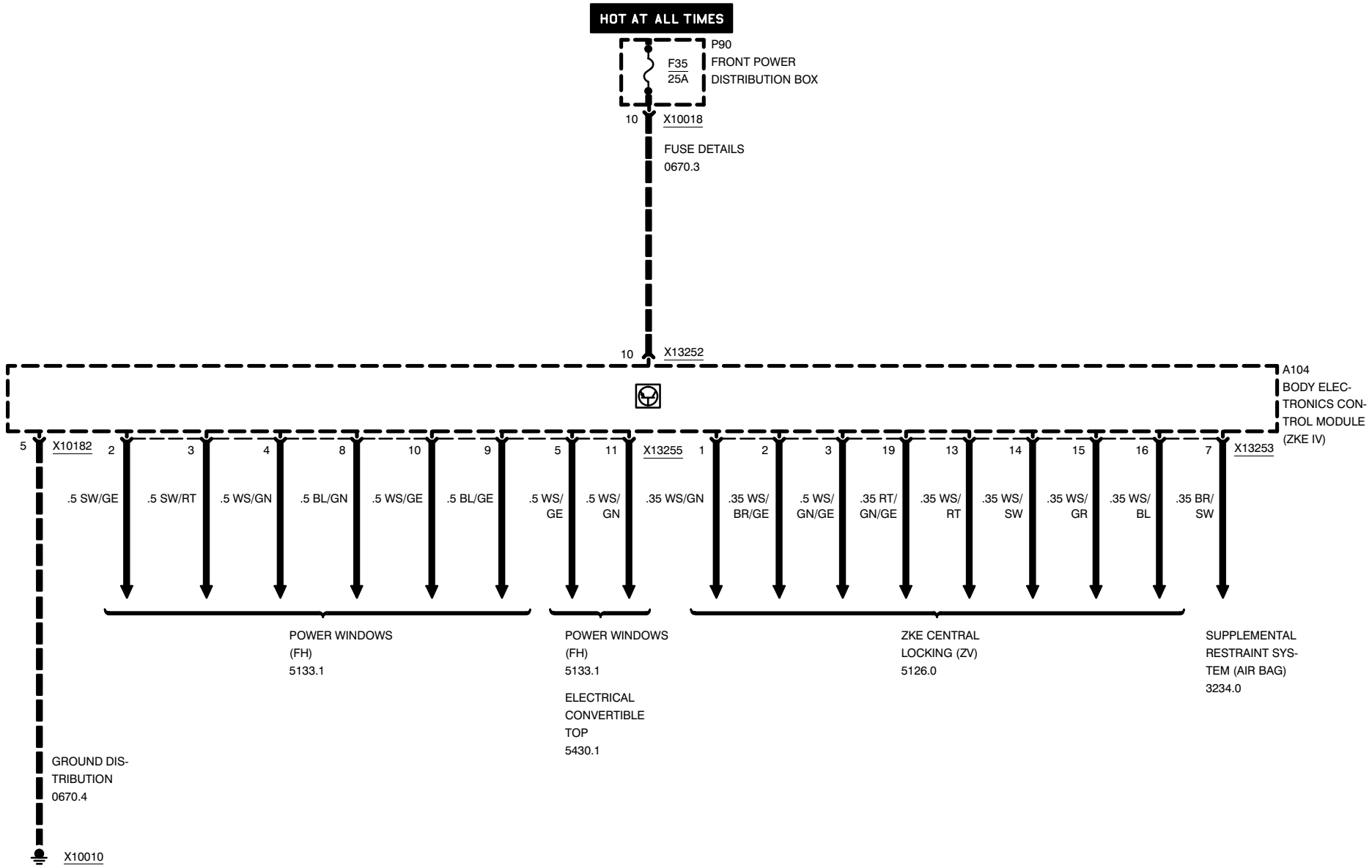
CENTRAL BODY ELECTRONICS (ZKE IV)



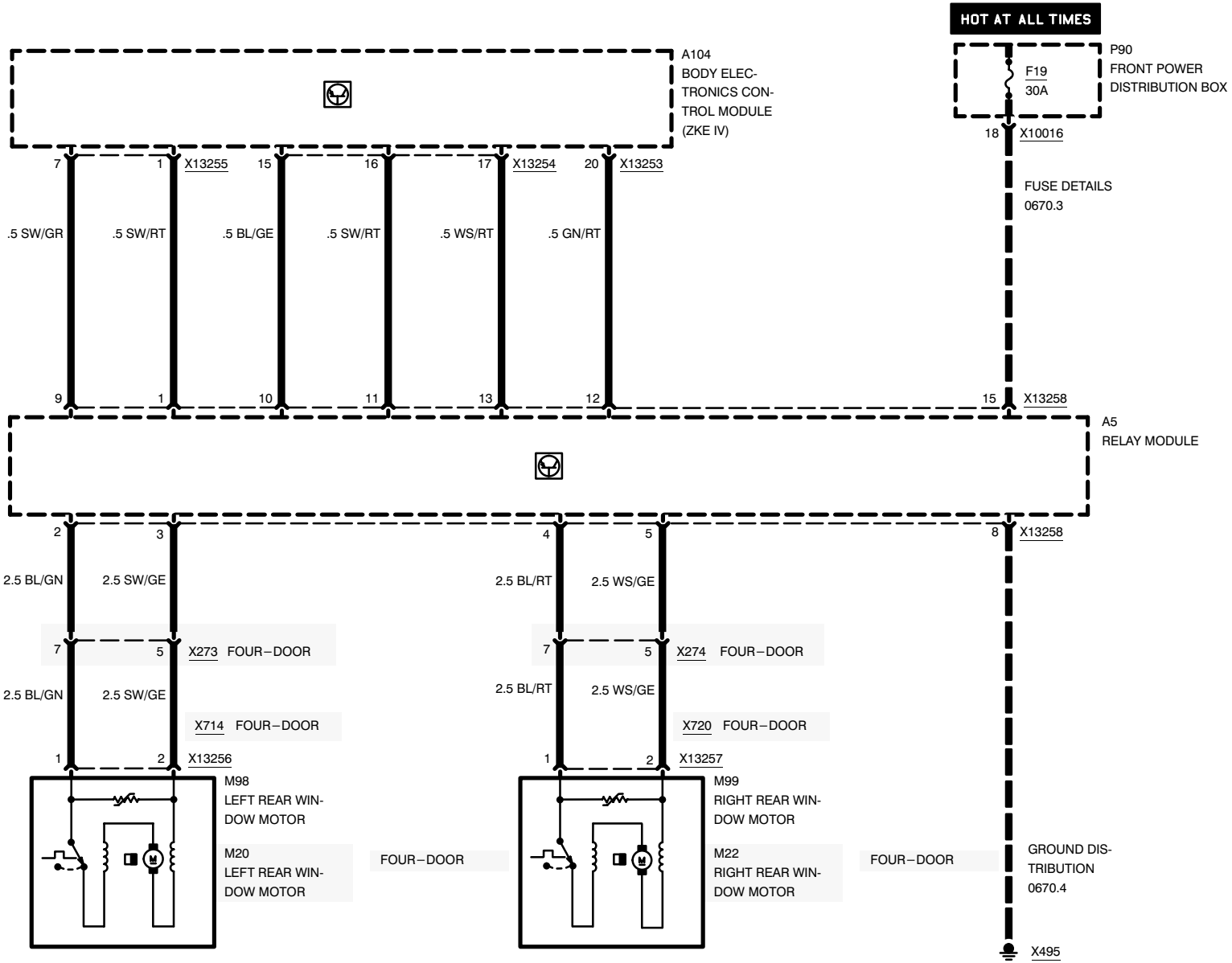
CENTRAL BODY ELECTRONICS (ZKE IV)

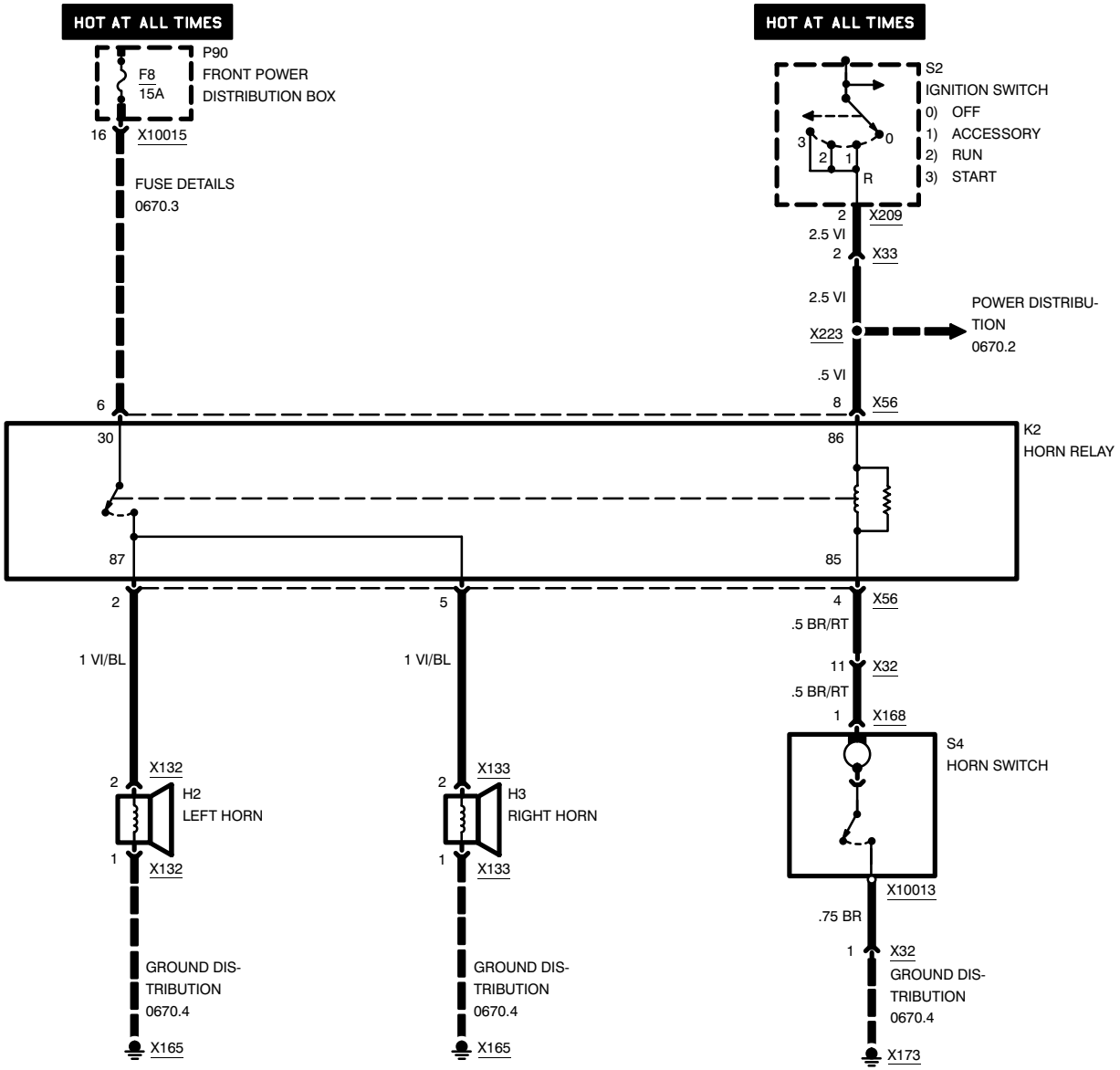


CENTRAL BODY ELECTRONICS (ZKE IV)

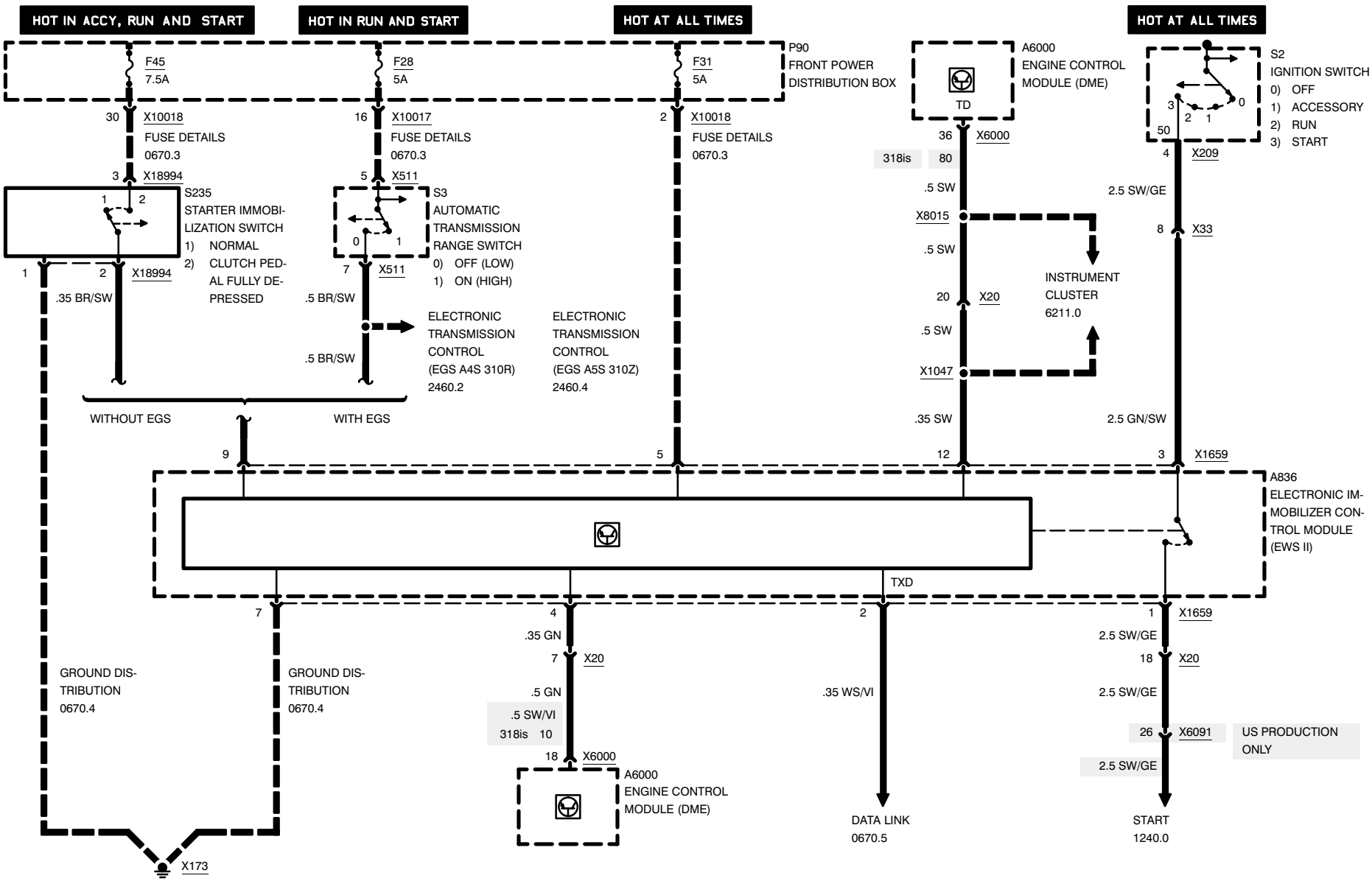


CENTRAL BODY ELECTRONICS (ZKE IV)

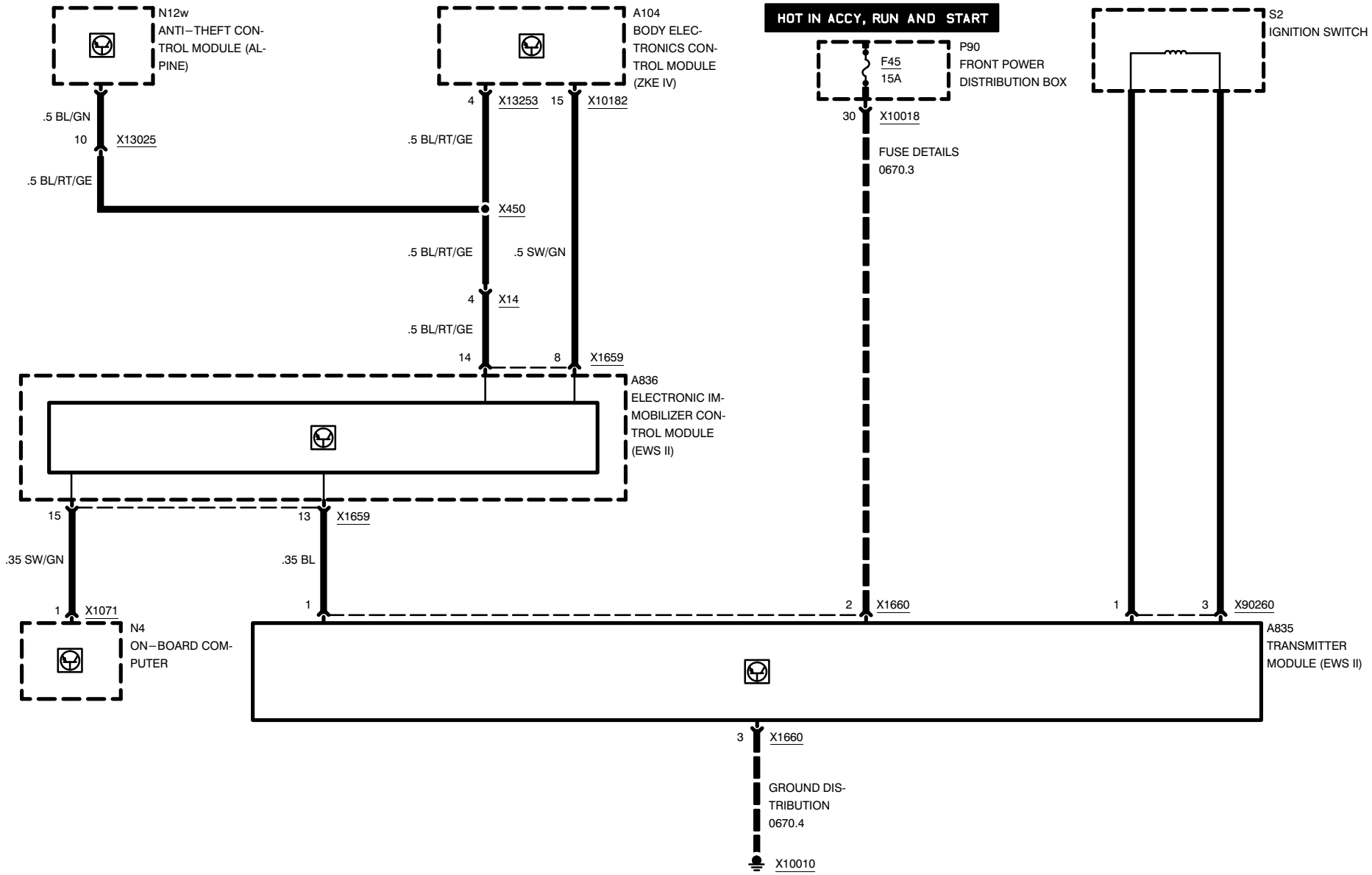



HOT AT ALL TIMES
P90
F8
15A
FRONT POWER
DISTRIBUTION BOX
16
X10015
FUSE DETAILS
0670.3
HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
3
2
1
0
R
2
X209
2.5 VI
2
X33
2.5 VI
POWER DISTRIBU-
TION
0670.2
X223
.5 VI
6
8
X56
30
86
K2
HORN RELAY
87
85
2
5
4
X56
.5 BR/RT
1 VI/BL
1 VI/BL
11
X32
.5 BR/RT
1
X168
S4
HORN SWITCH
2
X132
H2
LEFT HORN
1
X132
2
X133
H3
RIGHT HORN
1
X133
X10013
.75 BR
1
X32
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
X165
X165
X173

DRIVE–AWAY PROTECTION (EWS II)

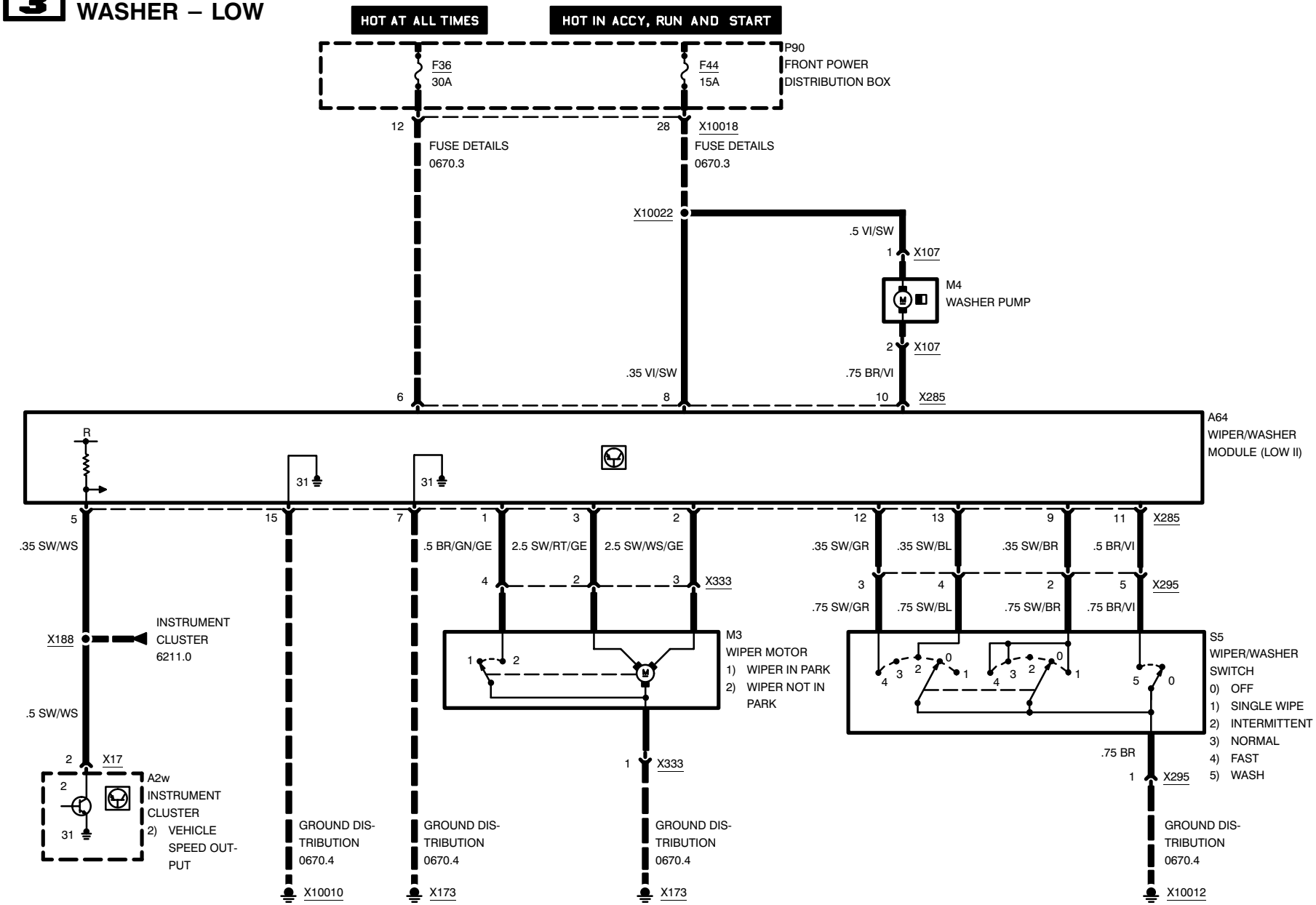


DRIVE−AWAY PROTECTION (EWS II)



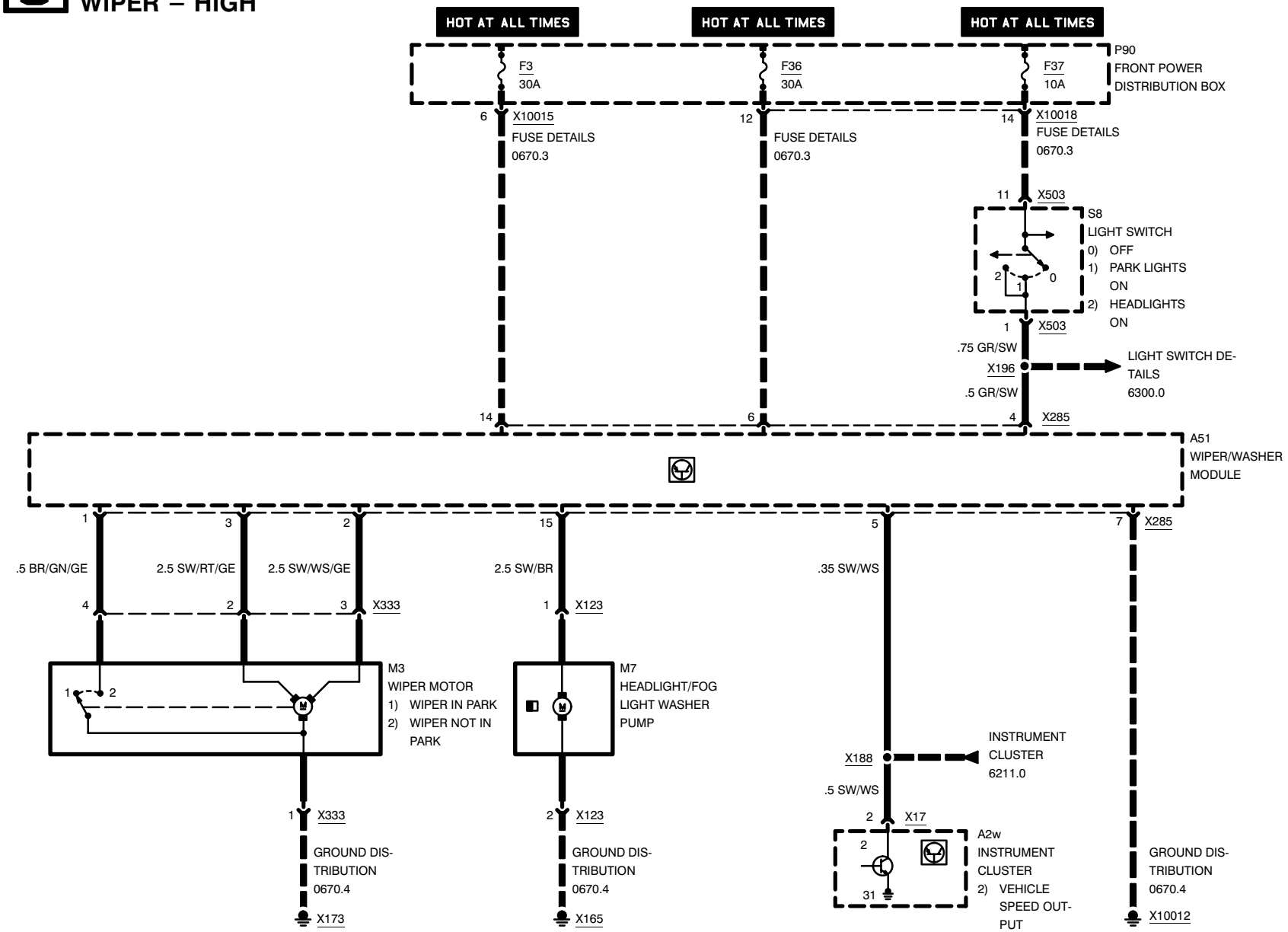
WIPER/WASHER MODULE (WWM)

WASHER – LOW



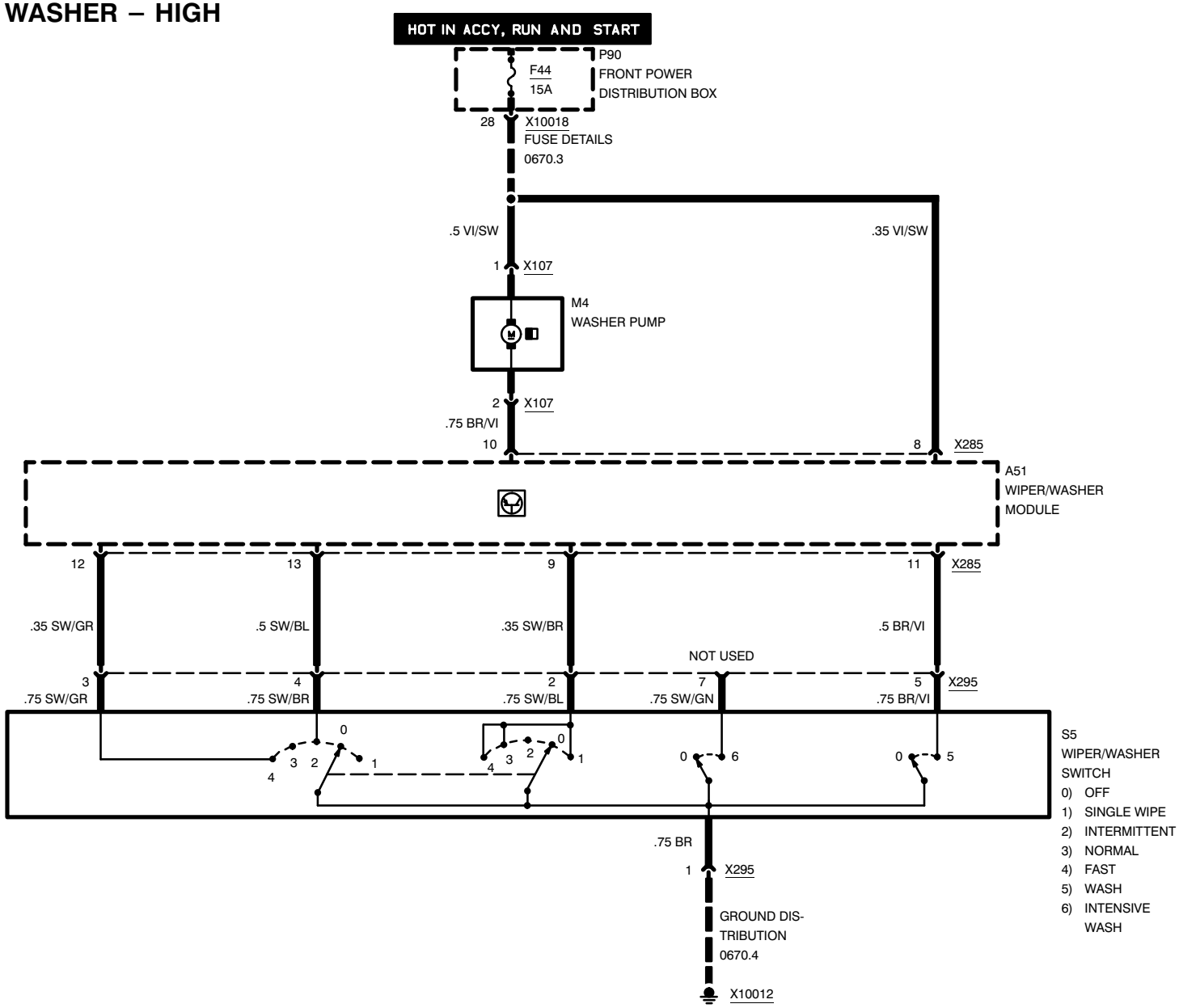
WIPER/WASHER MODULE (WWM)

WIPER – HIGH

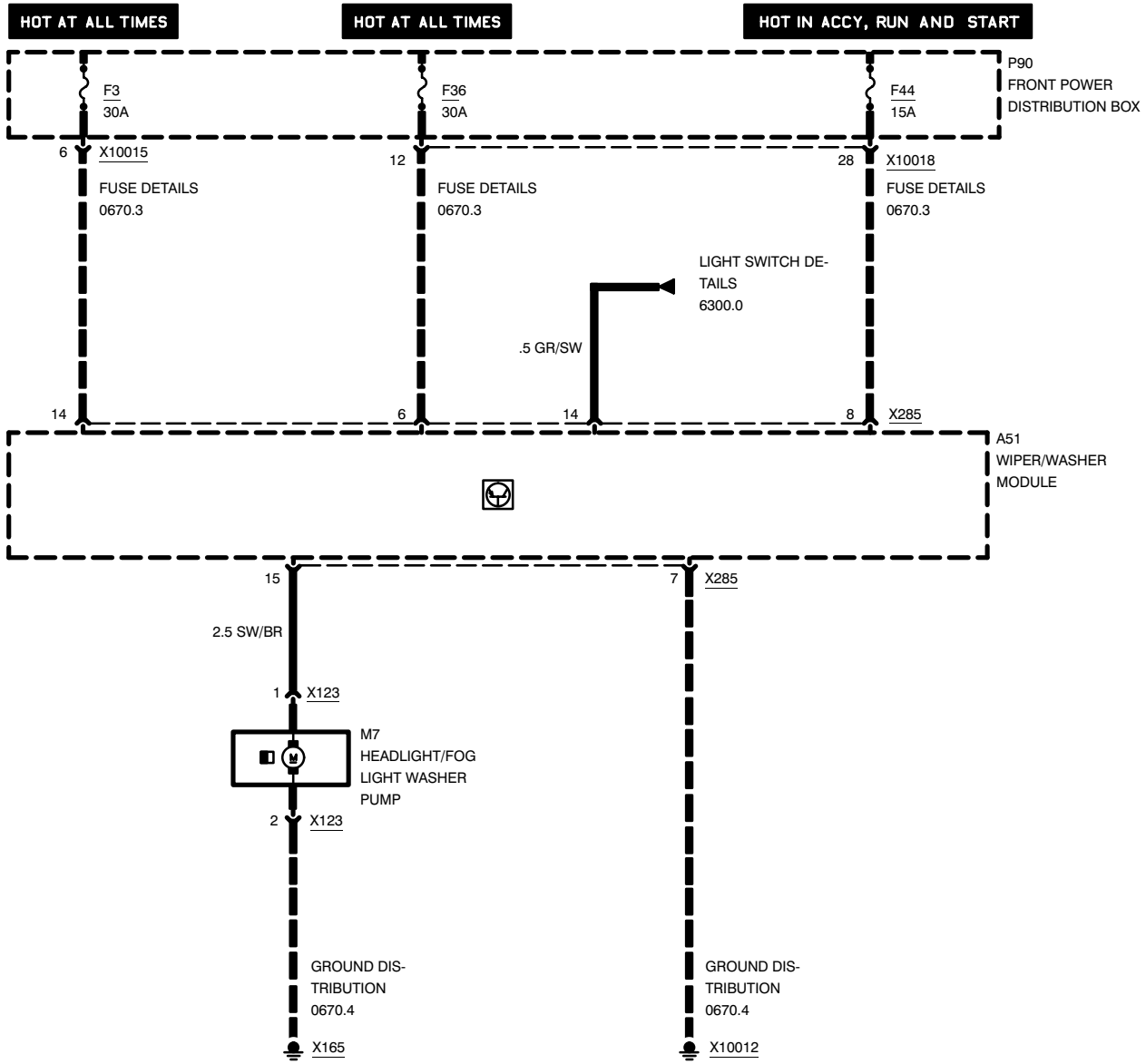


WIPER/WASHER MODULE (WWM)

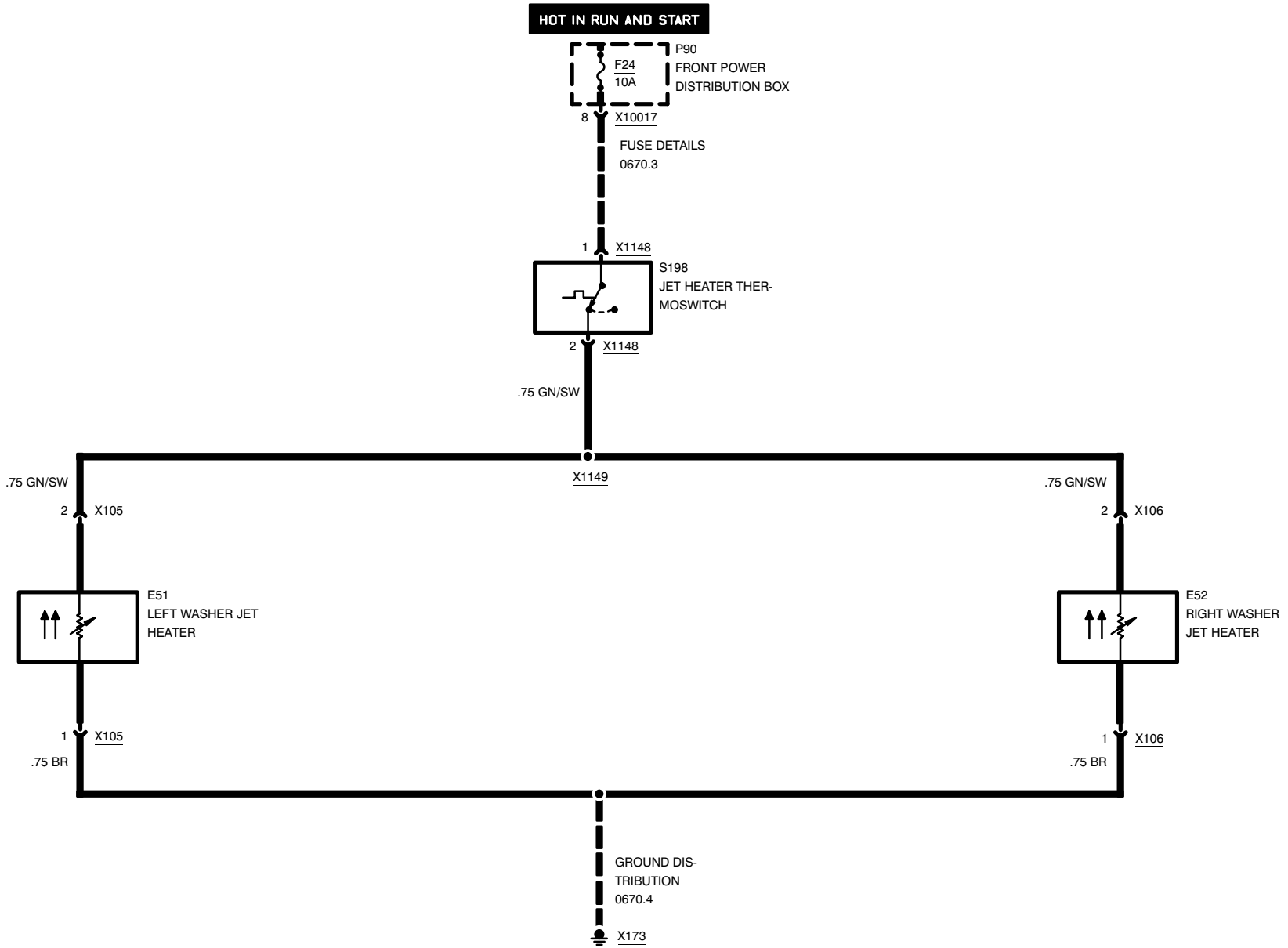
WASHER – HIGH



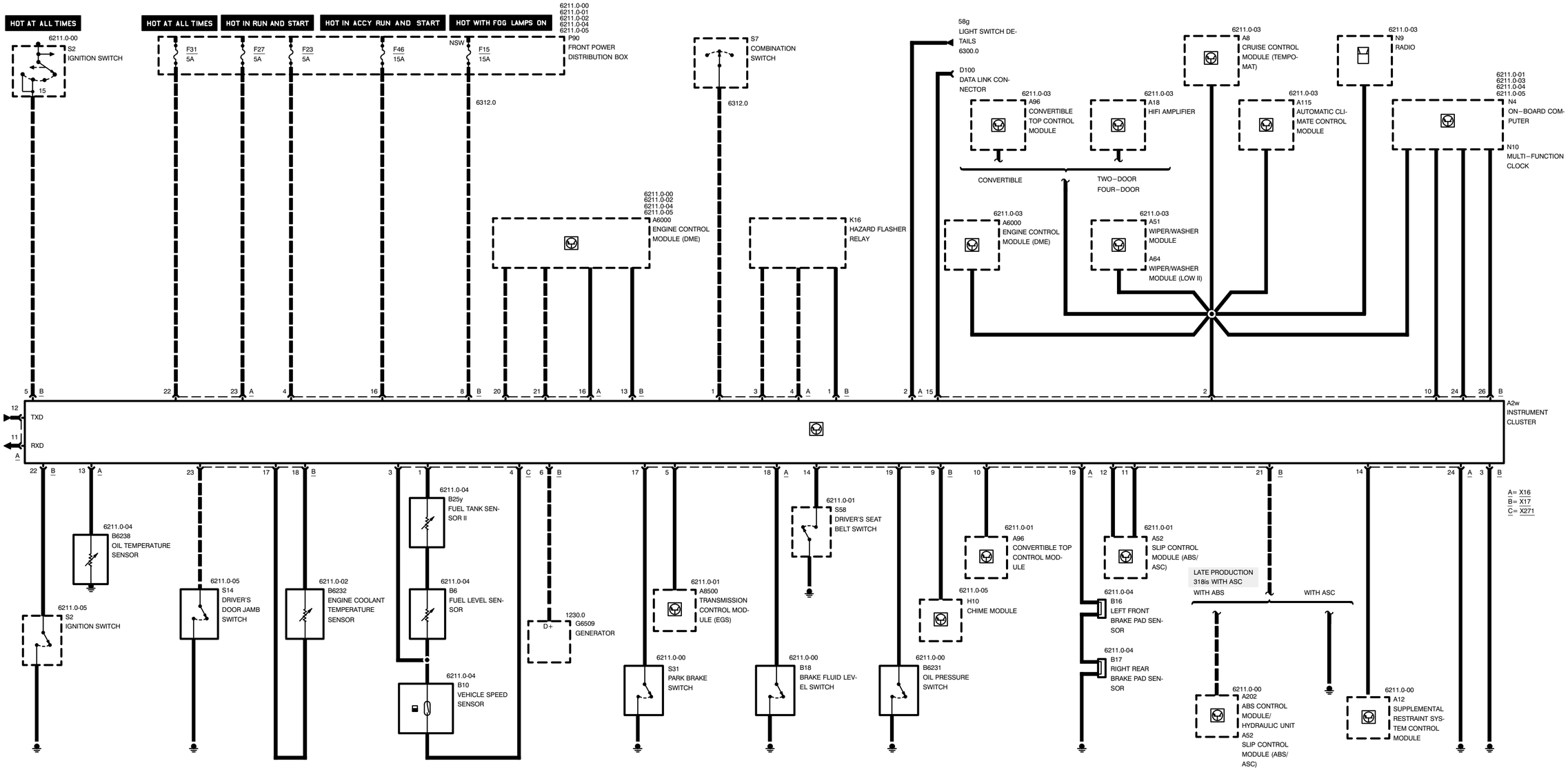
HEADLIGHT WASHER (SRA)

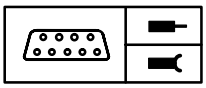


WINDSHIELD WASHER JET HEATERS



03/98 6211.0 1997
03/98 6211.0 1997



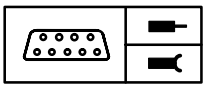


Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10	E	Convertible: Rollover signal	Convertible top control module
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13	E	Oil temperature	Engine oil temperature sensor
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15		Not used	
16	E	“Check engine” indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21	E	Fuel consumption signal + KVA	Engine control module (DME)
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

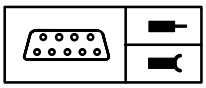


Pin Assignments

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10	A	Information signal, fuel tank content	On-board computer
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS)
12	E	ASC signal	ASC control module
13	A	TI-measurement signal (fuel consumption)	Engine control module (DME)
14	E	Seat belt warning lamp control	Driver's seat belt switch
15	E	SIA reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distibution box, fuse 46
17	A	Coolant temperature sensor	Coolant temperature sensor
18	E	Coolant temperature sensor	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21	E	Ground	Ground point (with ASC)
21	E	Slip control system warning lamp (ABS) control	Slip control module (ABS/ASC) ABS control module/hydraulic unit (ABS)
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver's door open	Driver's door jamb switch

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

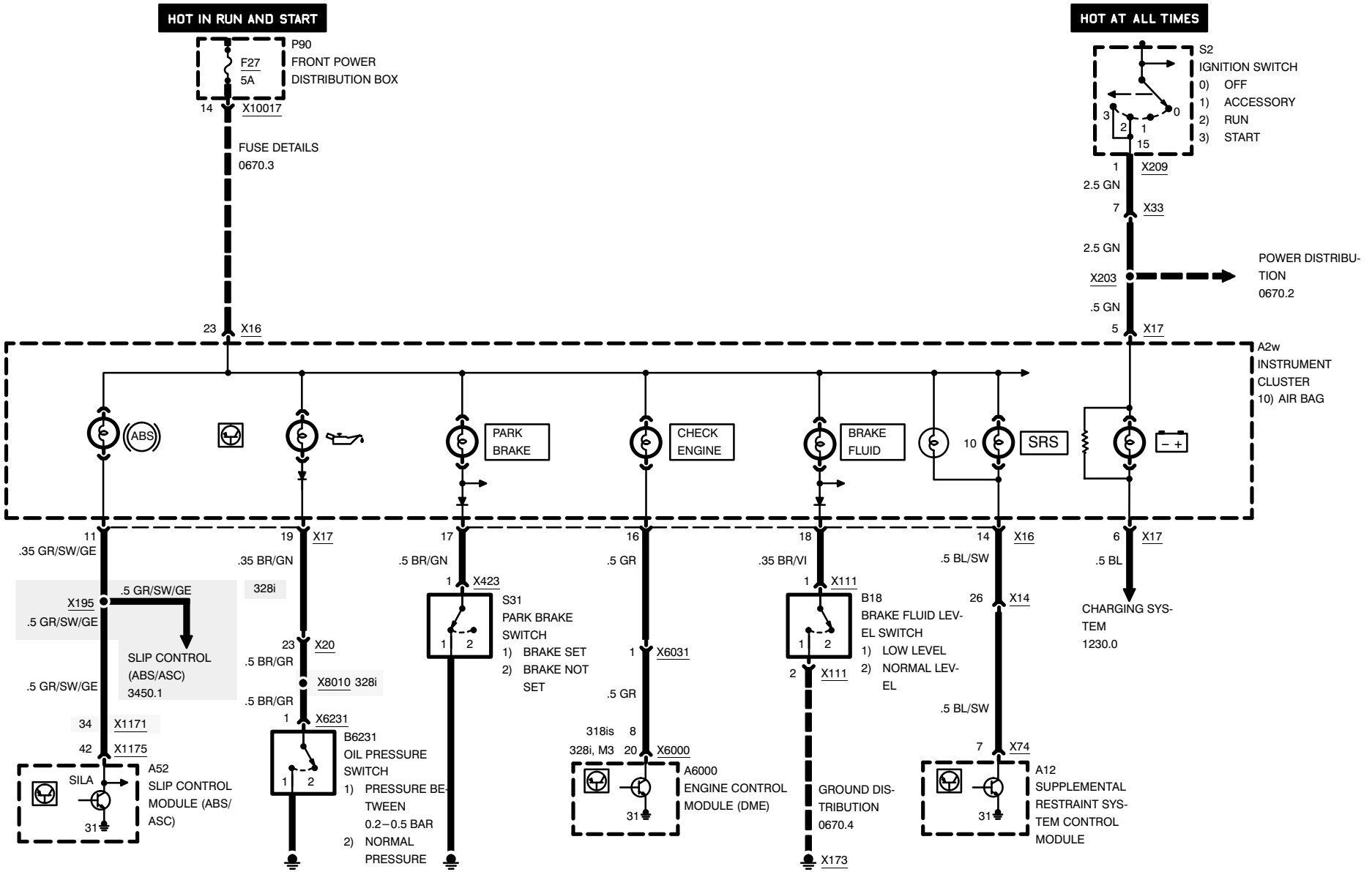
X271

Pin	Type	Descrption/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal TW	Vehicle speed sensor
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

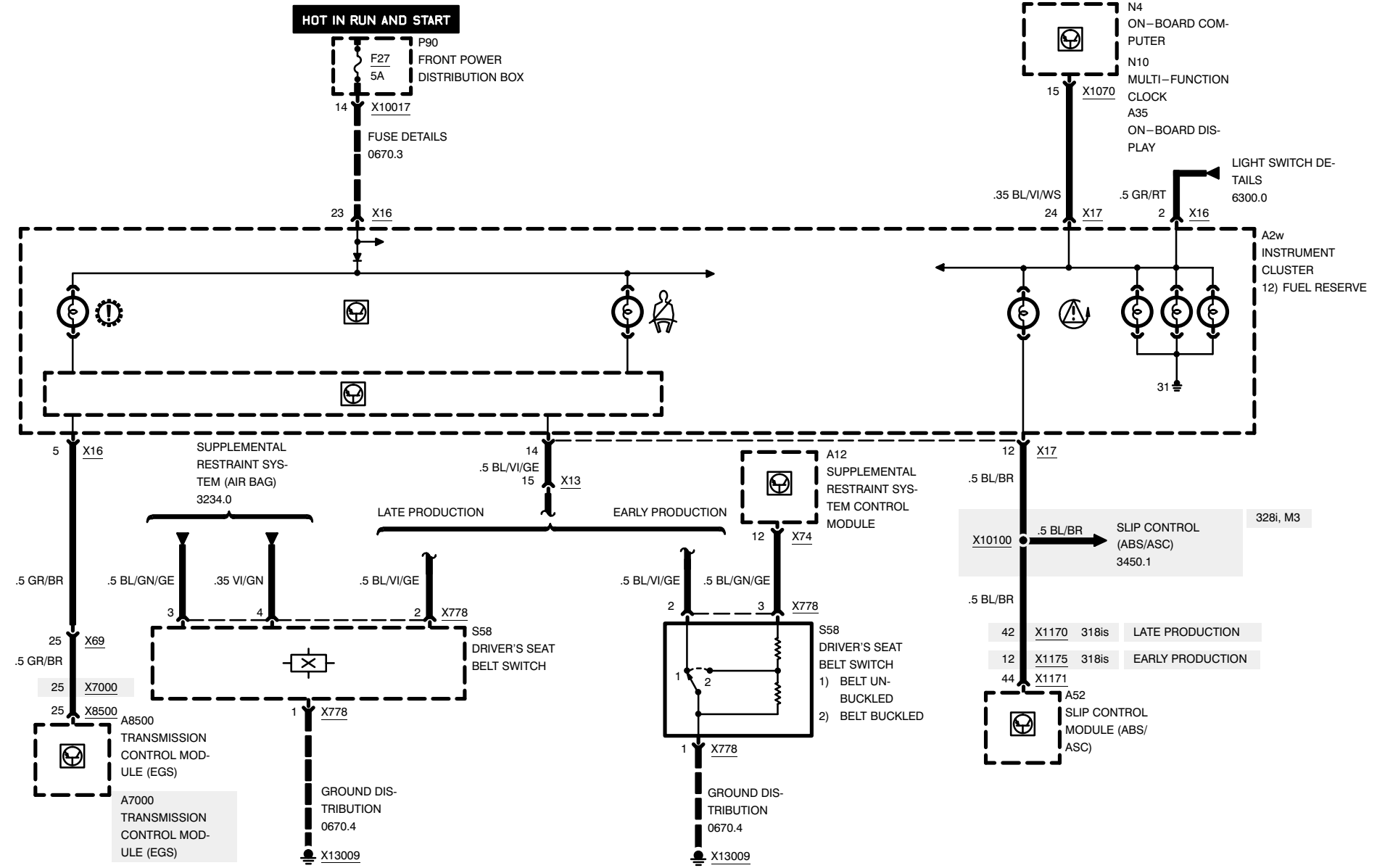
INSTRUMENT CLUSTER

INDICATORS



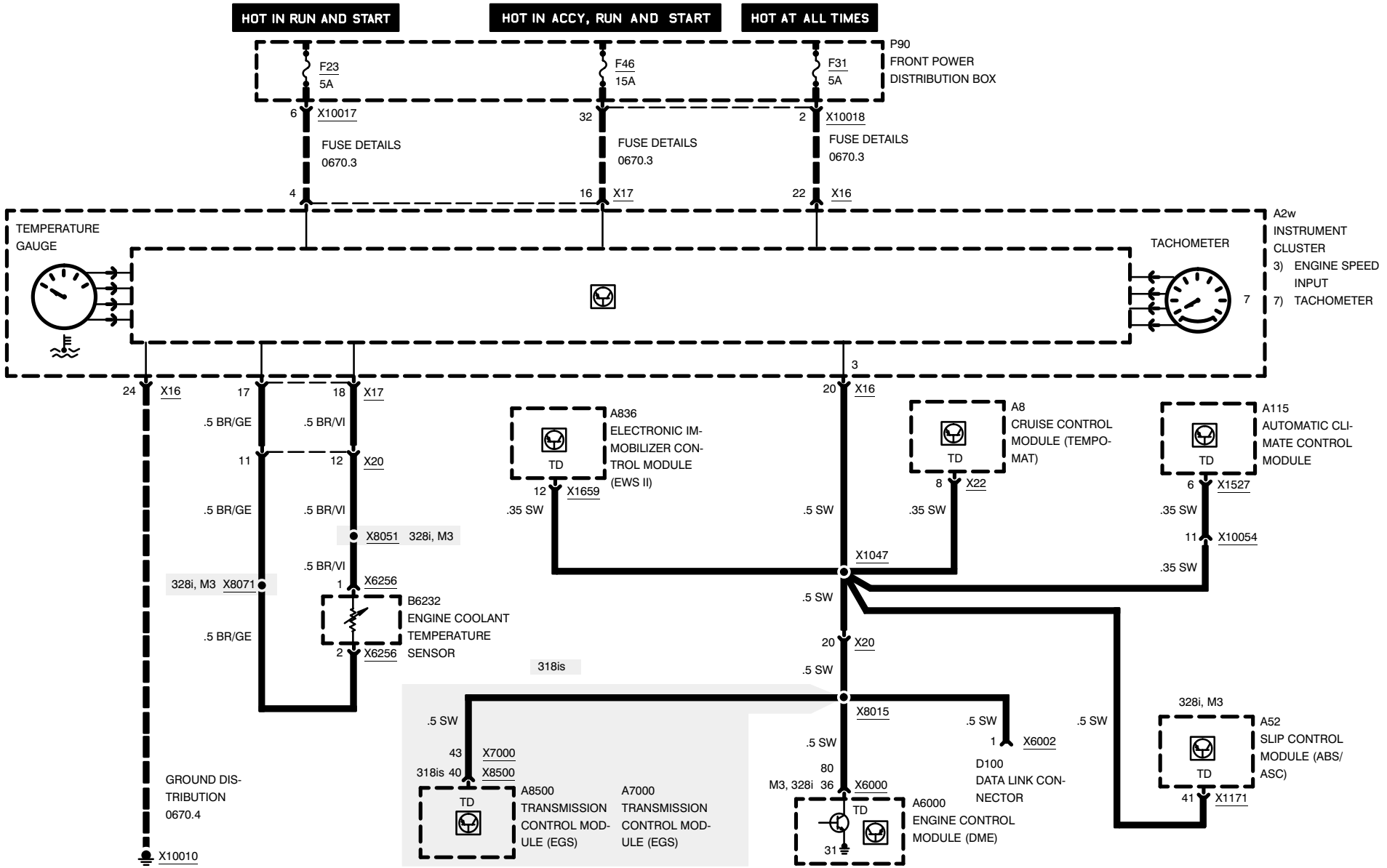
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INDICATORS



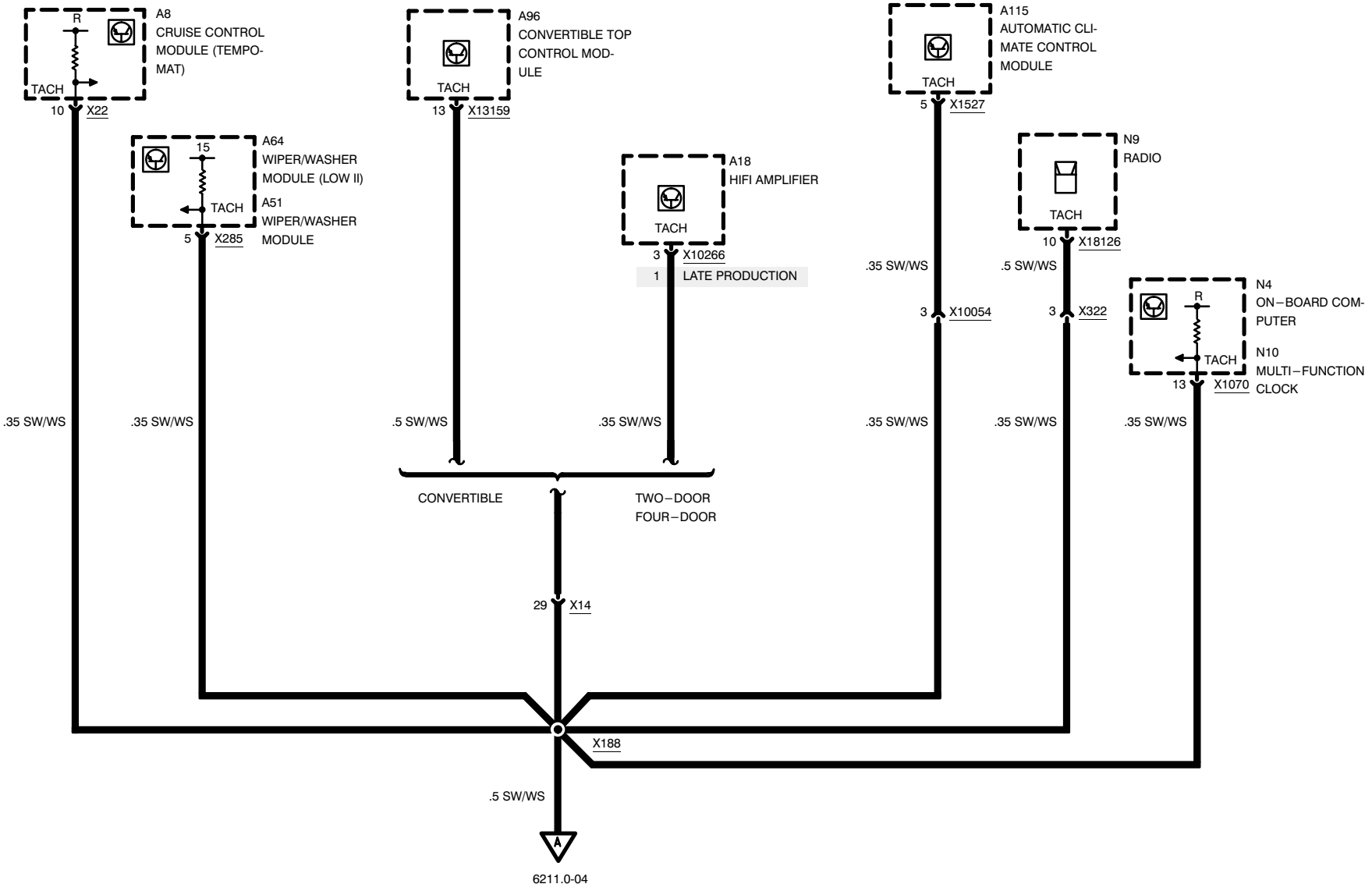
INSTRUMENT CLUSTER

INDICATORS



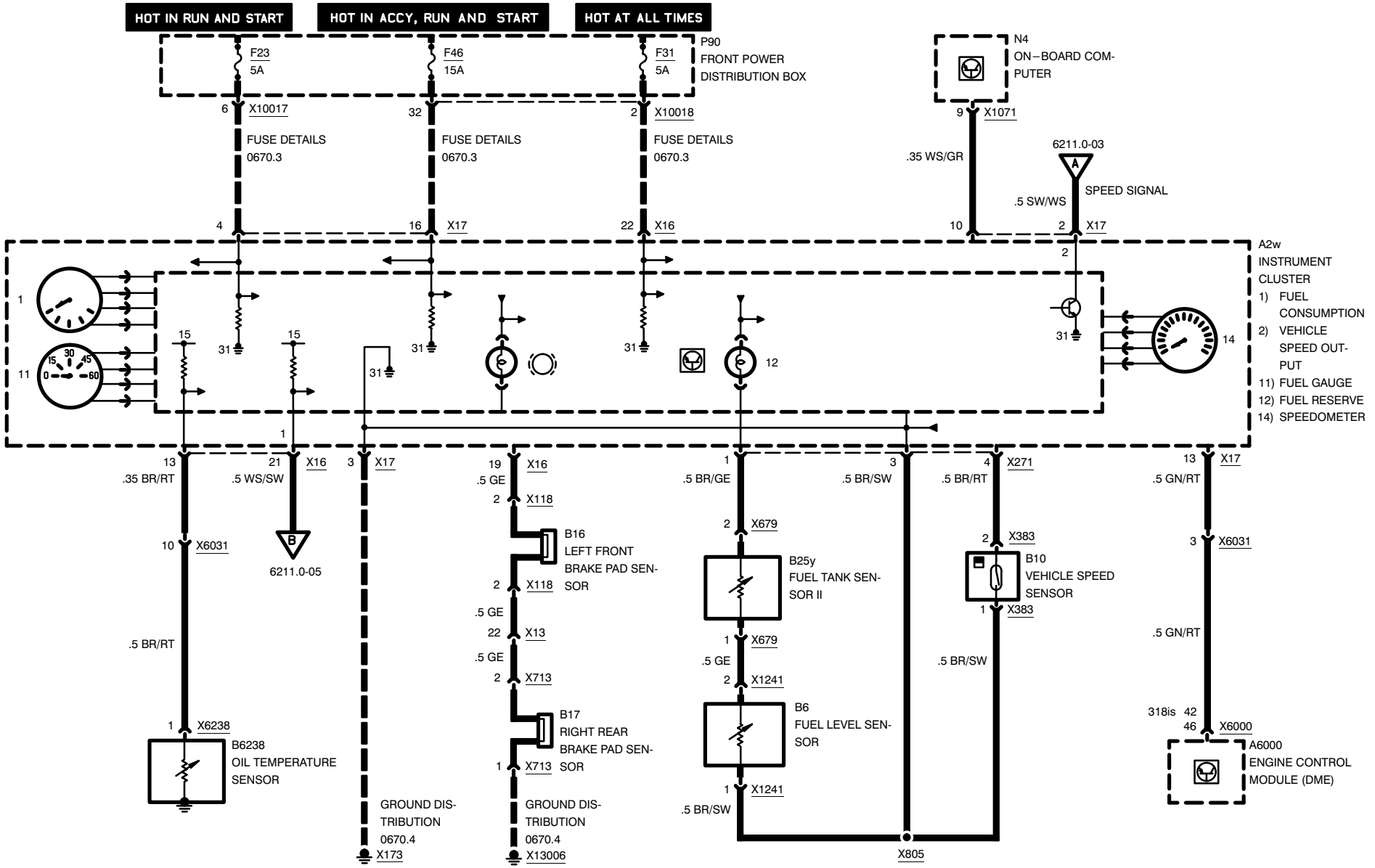
INSTRUMENT CLUSTER

SIGNAL – OUTPUT SPEEDOMETER



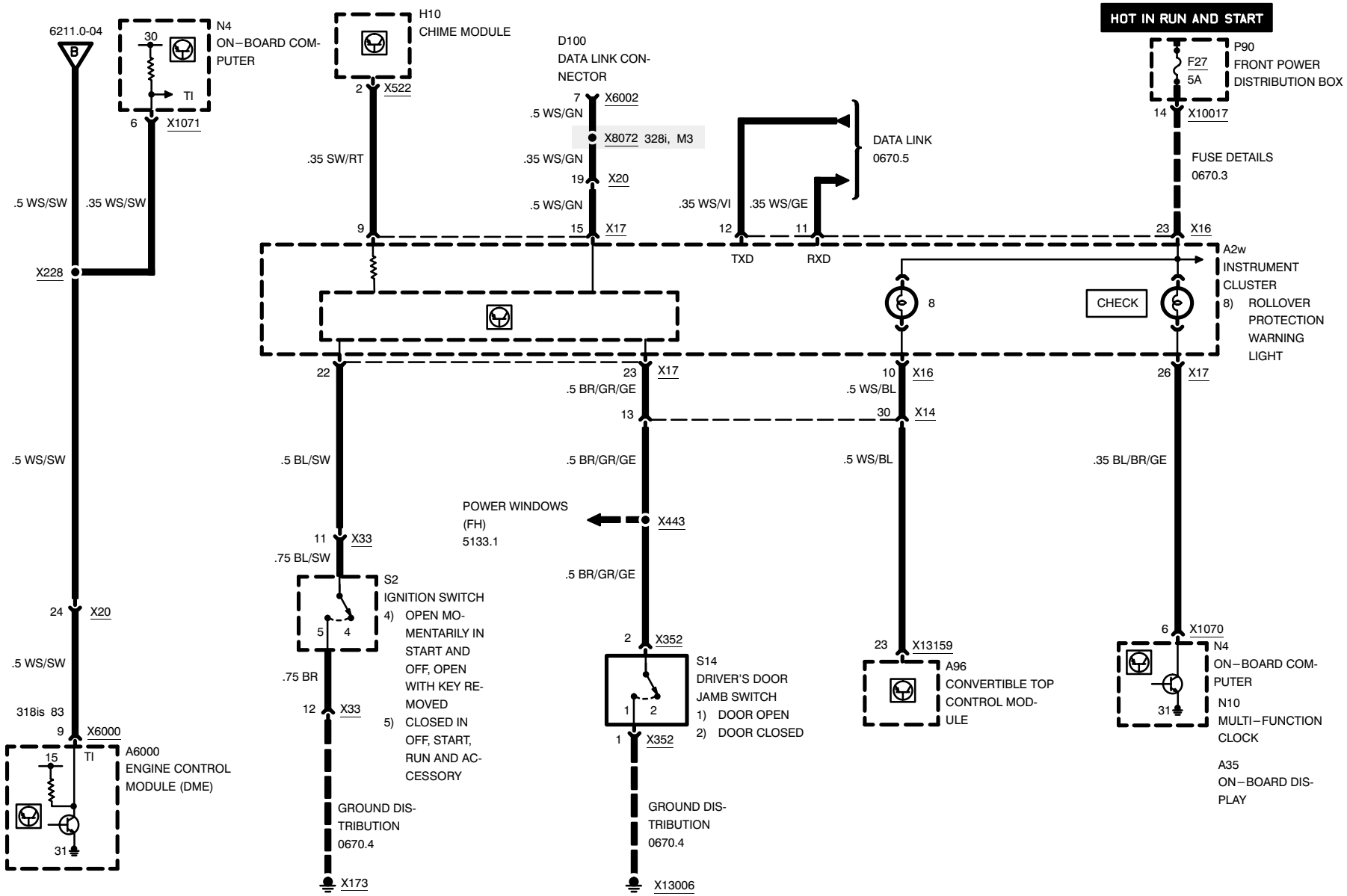
INSTRUMENT CLUSTER

INDICATORS

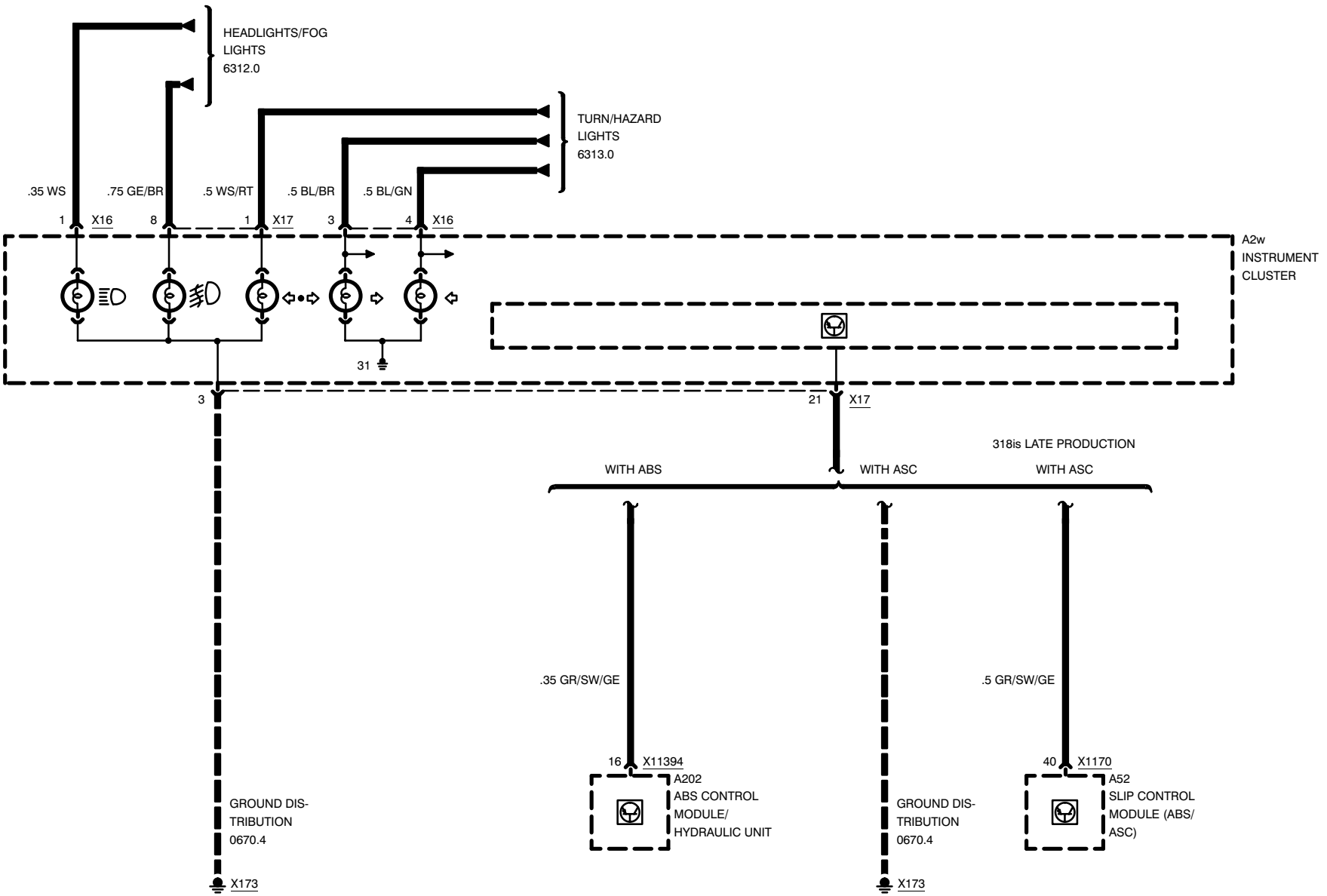


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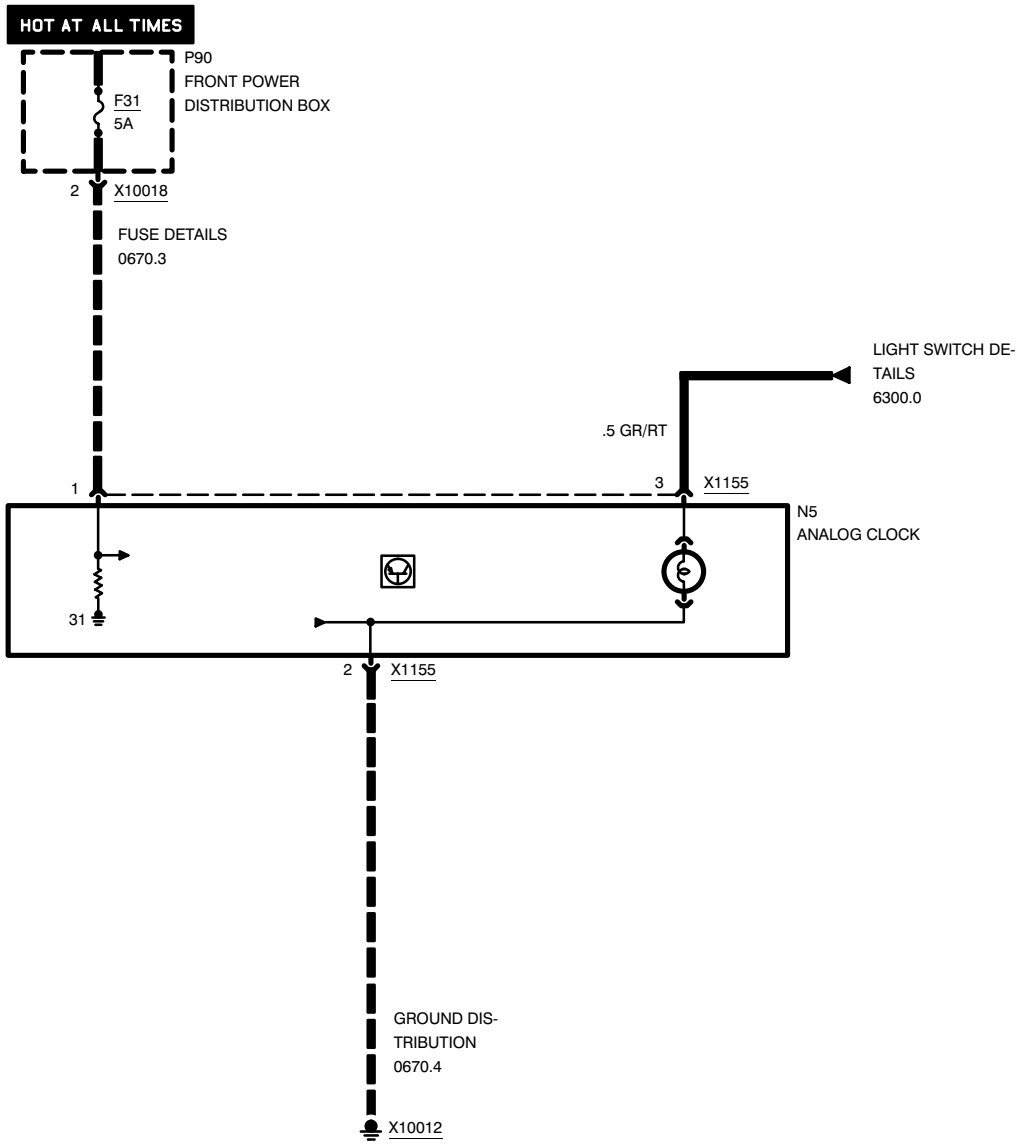
INDICATORS



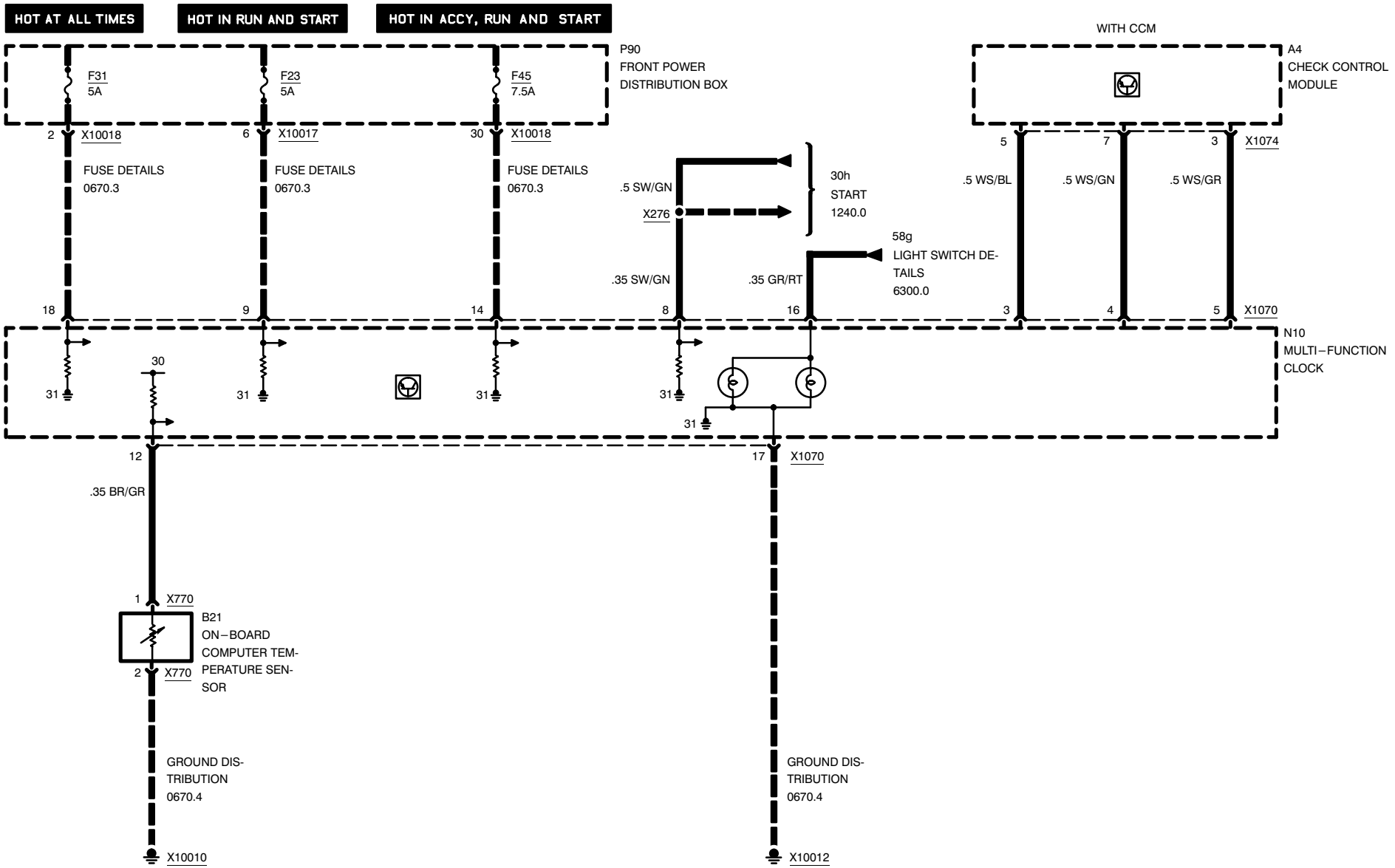
INSTRUMENT CLUSTER



ANALOG CLOCK

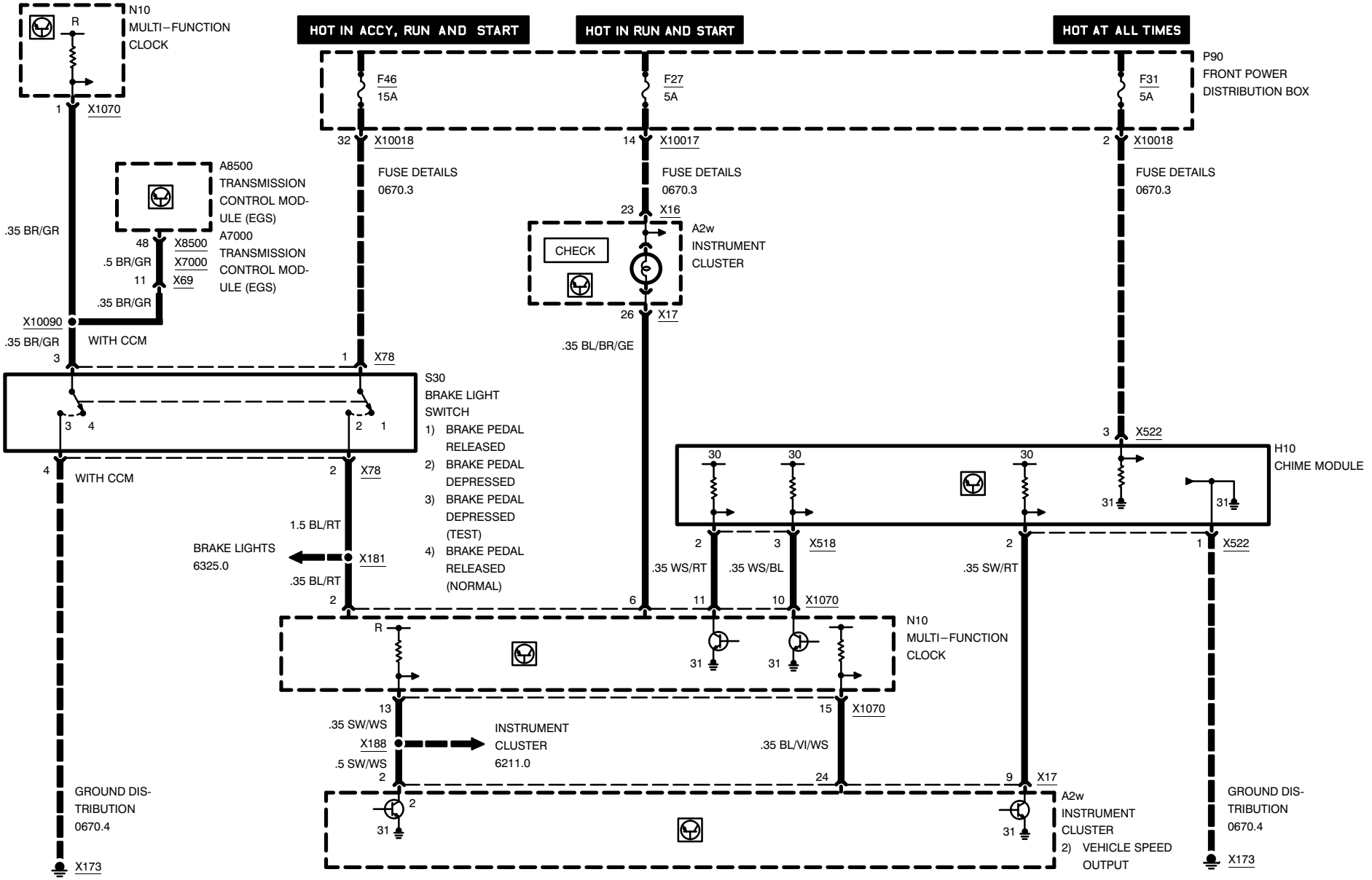


MULTI–FUNCTION CLOCK

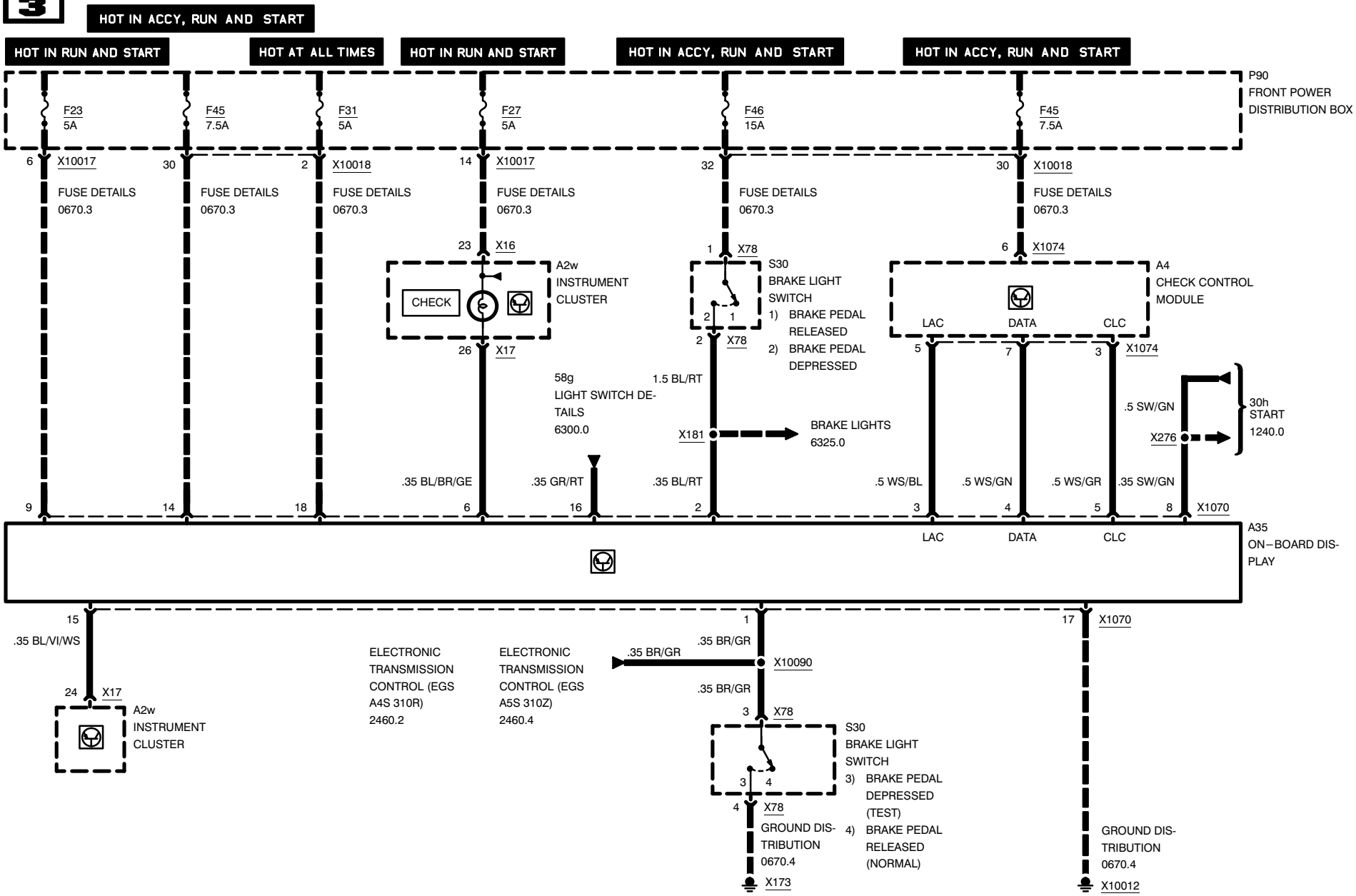


MULTI–FUNCTION CLOCK

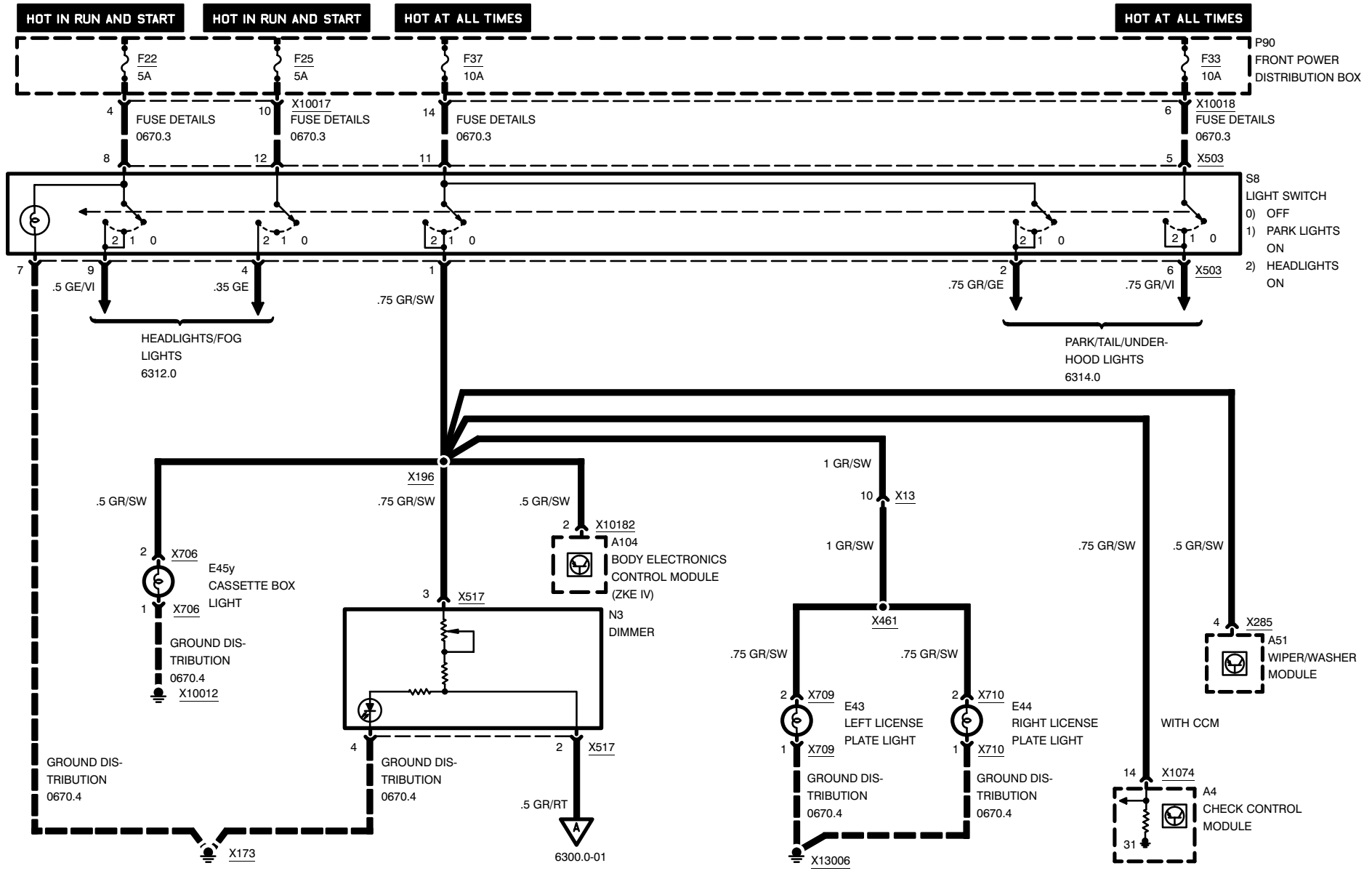
CHIME, BRAKE LIGHT SWITCH



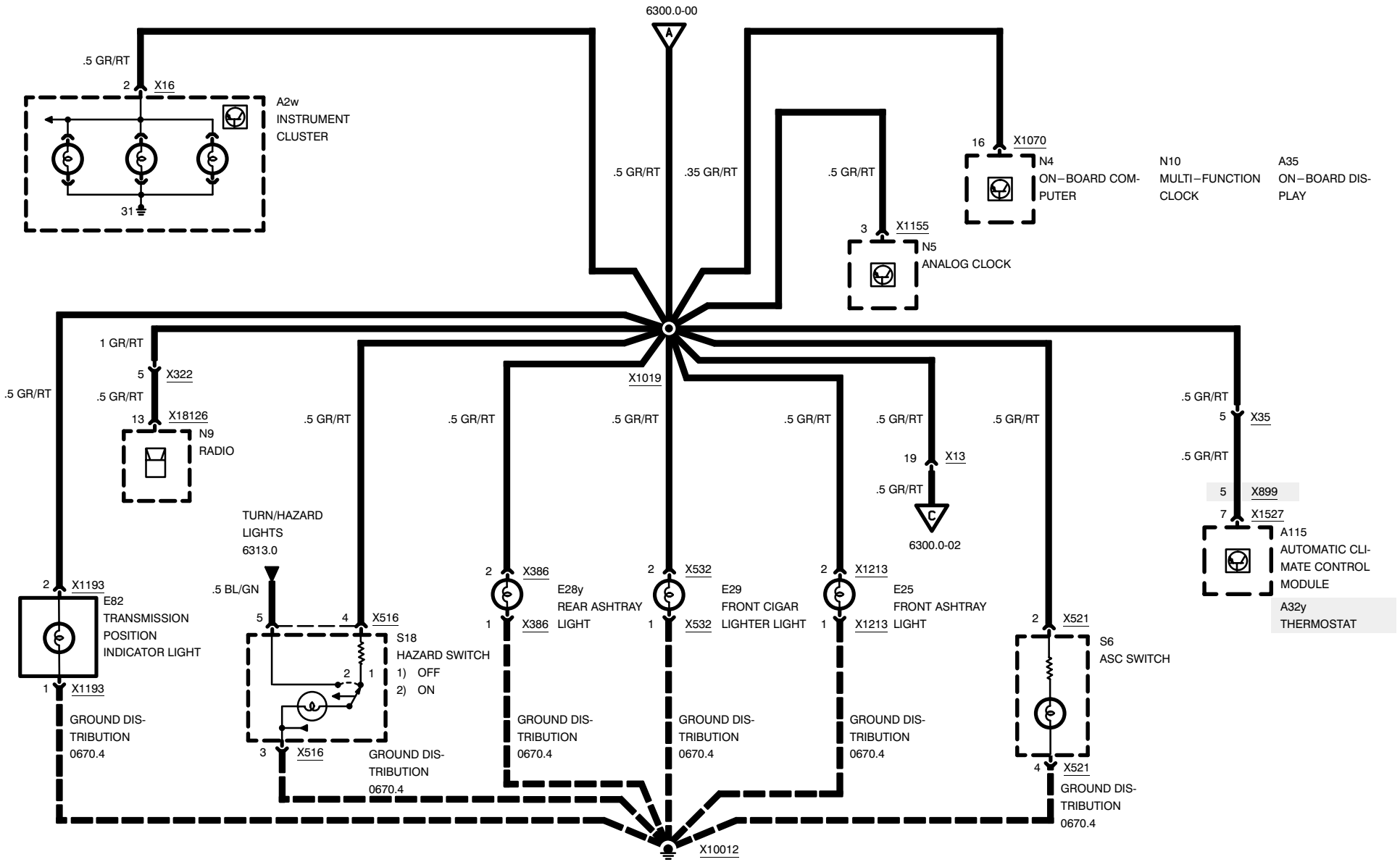
ON–BOARD DISPLAY



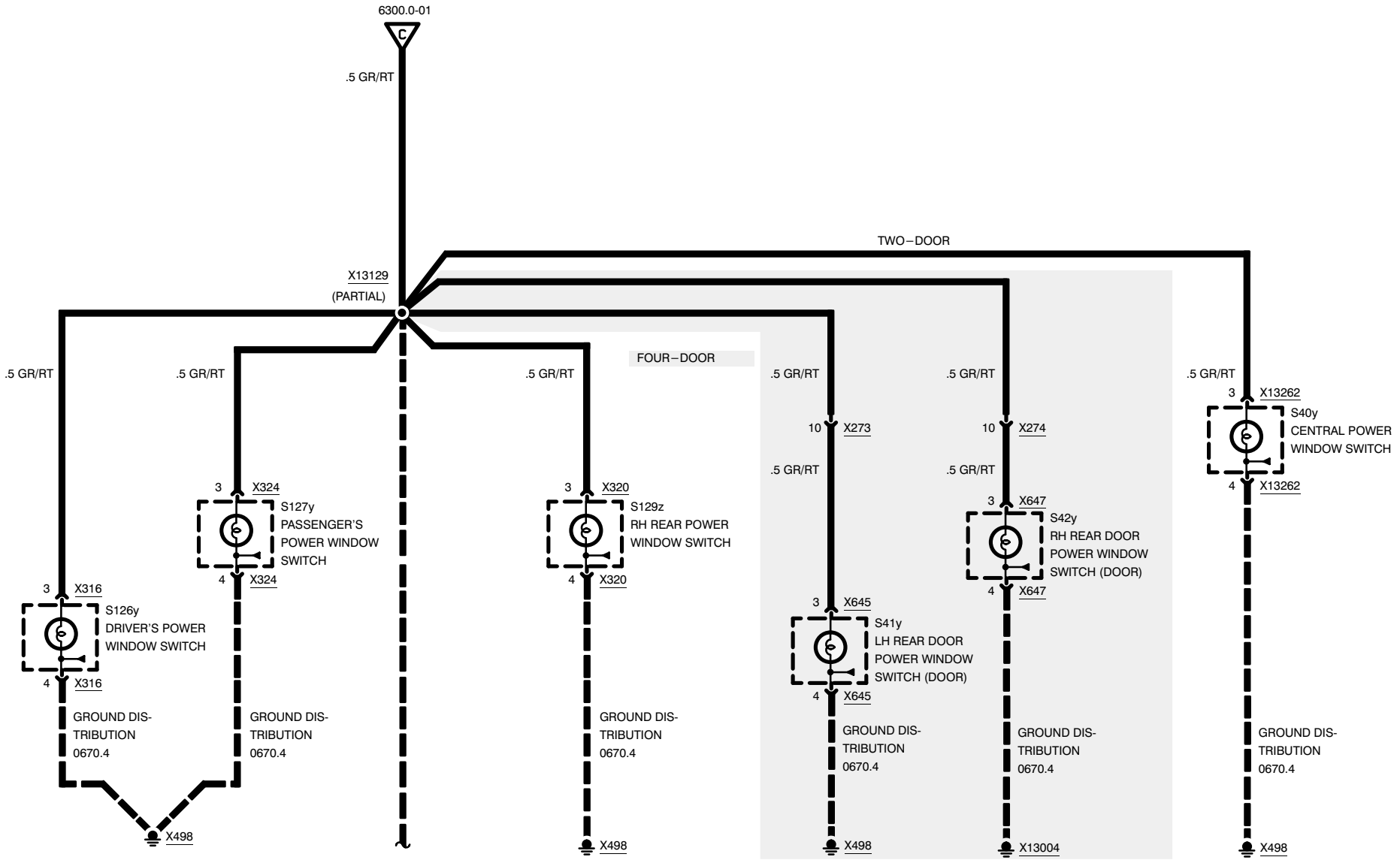
LIGHT SWITCH DETAILS

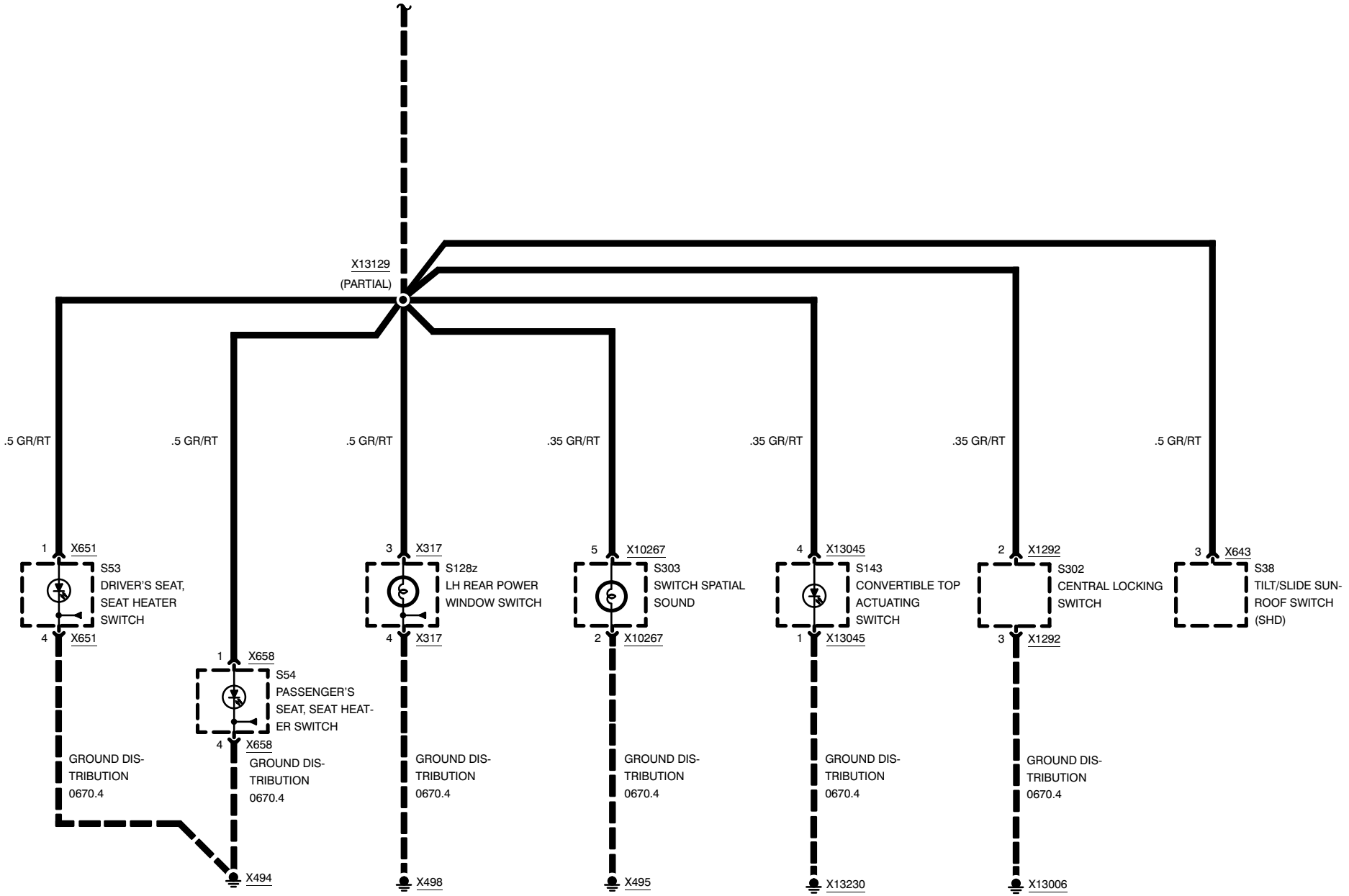


LIGHT SWITCH DETAILS

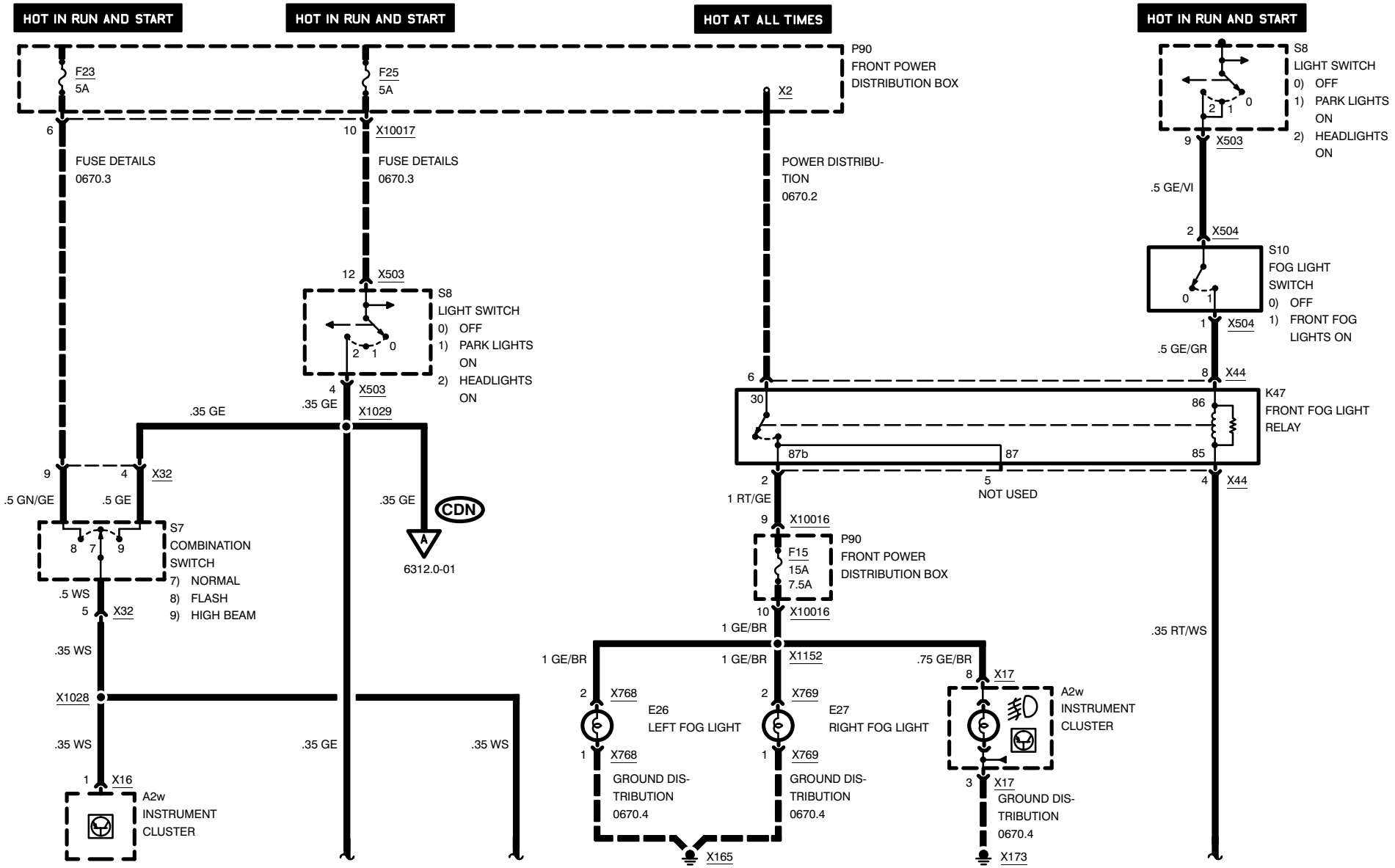


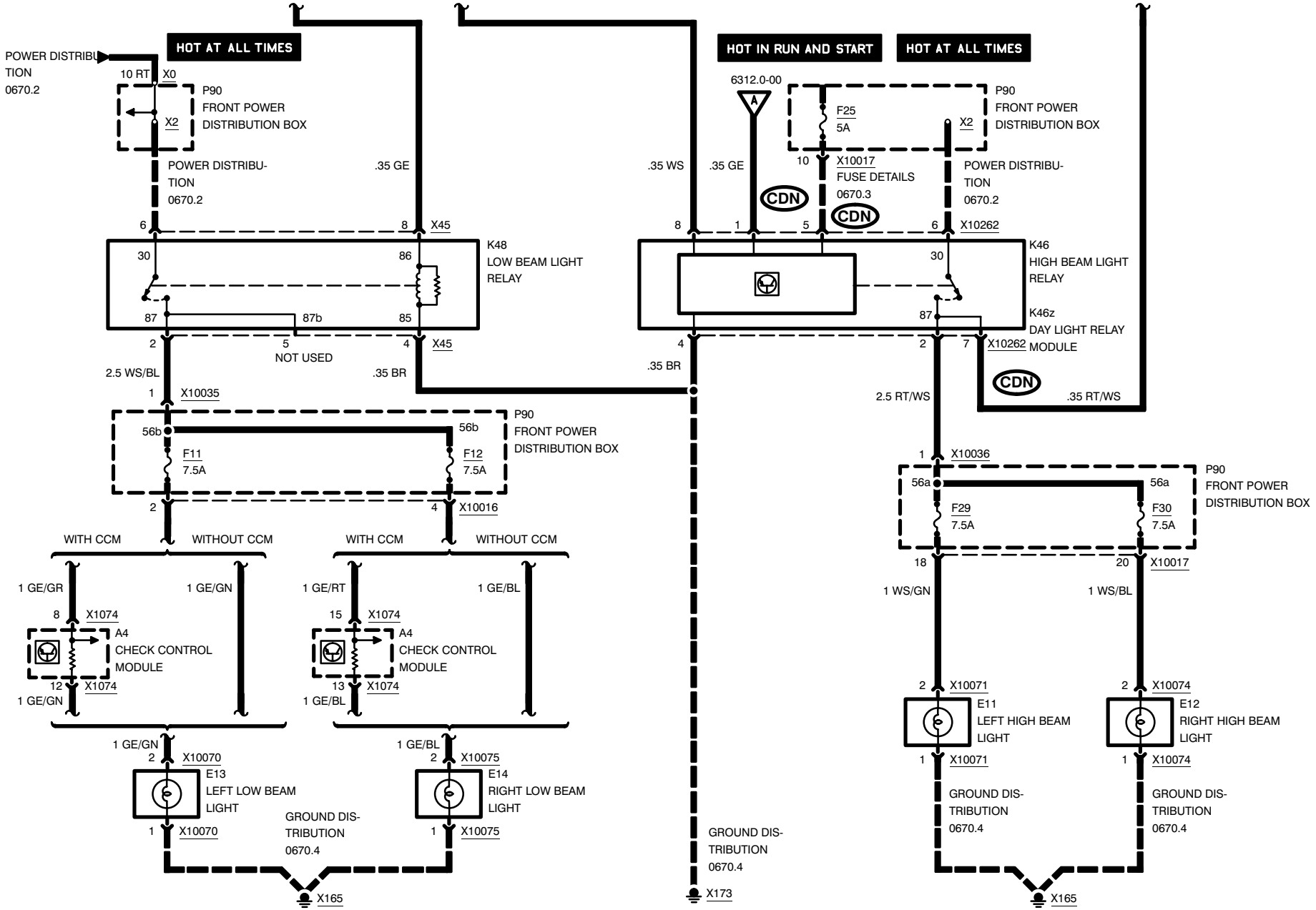
LIGHT SWITCH DETAILS



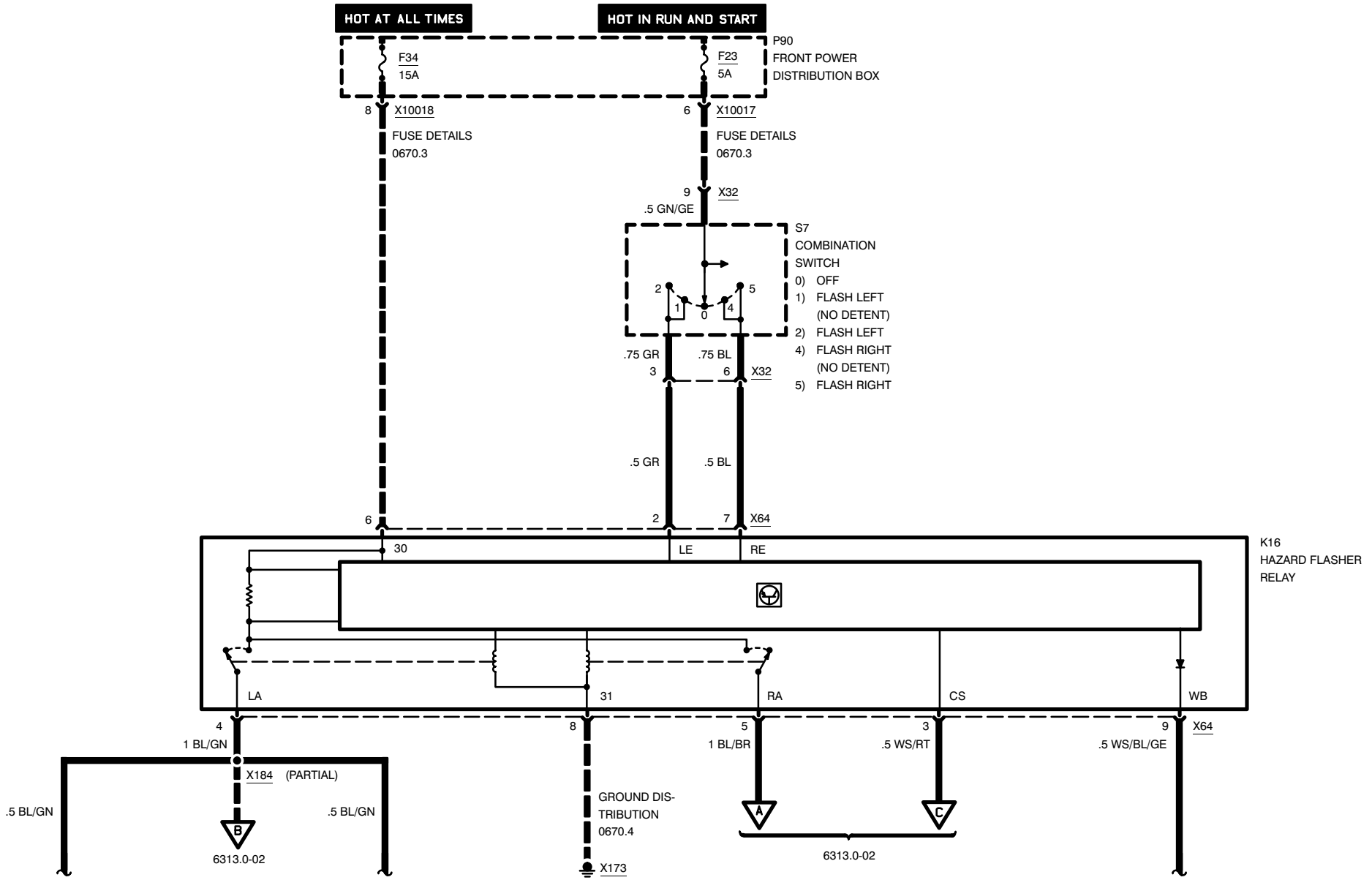

X13129
(PARTIAL)
.5 GR/RT
.5 GR/RT
.5 GR/RT
.35 GR/RT
.35 GR/RT
.35 GR/RT
.5 GR/RT
1 X651
S53
DRIVER'S SEAT, SEAT HEATER SWITCH
4 X651
GROUND DISTRIBUTION 0670.4
X494
1 X658
S54
PASSENGER'S SEAT, SEAT HEATER SWITCH
4 X658
GROUND DISTRIBUTION 0670.4
3 X317
S128z
LH REAR POWER WINDOW SWITCH
4 X317
GROUND DISTRIBUTION 0670.4
X498
5 X10267
S303
SWITCH SPATIAL SOUND
2 X10267
GROUND DISTRIBUTION 0670.4
X495
4 X13045
S143
CONVERTIBLE TOP ACTUATING SWITCH
1 X13045
GROUND DISTRIBUTION 0670.4
X13230
2 X1292
S302
CENTRAL LOCKING SWITCH
3 X1292
GROUND DISTRIBUTION 0670.4
X13006
3 X643
S38
TILT/SLIDE SUNROOF SWITCH (SHD)

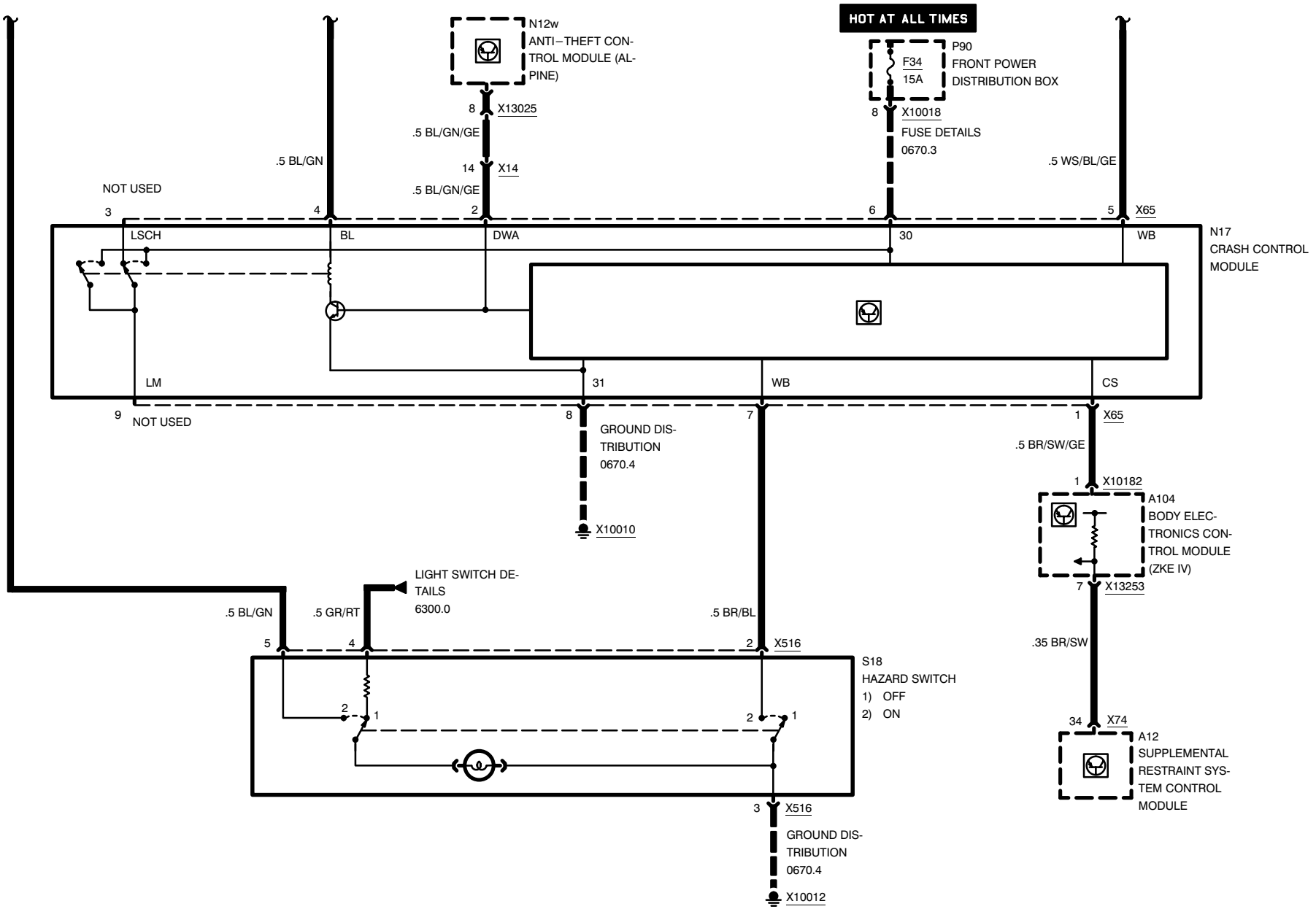
HEADLIGHTS/FOG LIGHTS



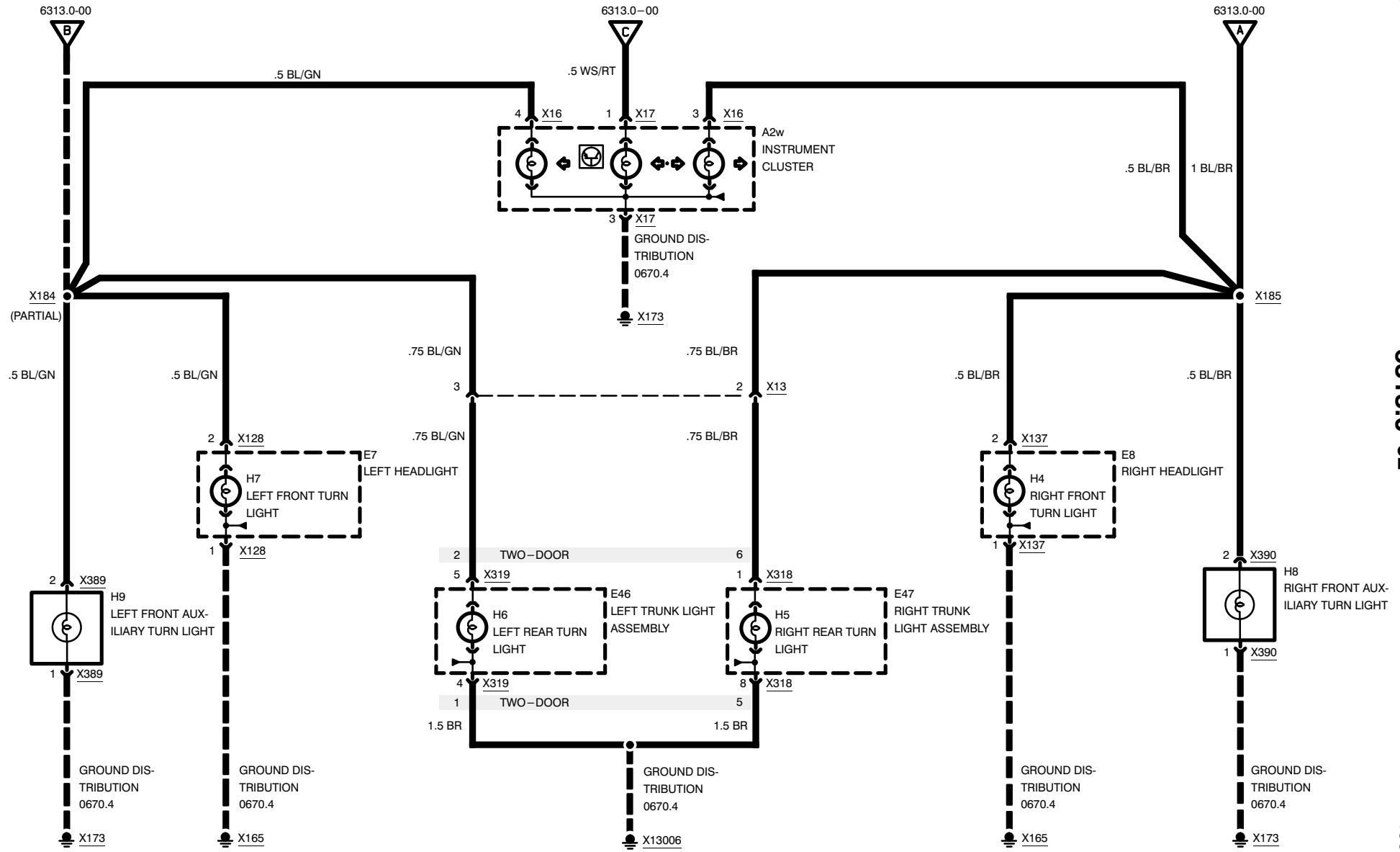

HOT AT ALL TIMES
HOT IN RUN AND START
HOT AT ALL TIMES
POWER DISTRIBU-
TION
0670.2
10 RT
X0
P90
FRONT POWER
DISTRIBUTION BOX
X2
POWER DISTRIBU-
TION
0670.2
.35 GE
6312.0-00
A
F25
5A
X2
P90
FRONT POWER
DISTRIBUTION BOX
.35 WS
.35 GE
10
X10017
FUSE DETAILS
0670.3
CDN
CDN
POWER DISTRIBU-
TION
0670.2
6
8
X45
8
1
5
6
X10262
K48
LOW BEAM LIGHT
RELAY
30
86
87
87b
85
K46
HIGH BEAM LIGHT
RELAY
30
87
K46z
DAY LIGHT RELAY
MODULE
2
5
4
X45
NOT USED
4
2
7
X10262
.35 BR
.35 BR
CDN
2.5 WS/BL
1
X10035
2.5 RT/WS
.35 RT/WS
56b
56b
F11
7.5A
F12
7.5A
P90
FRONT POWER
DISTRIBUTION BOX
2
4
X10016
1
X10036
56a
56a
F29
7.5A
F30
7.5A
P90
FRONT POWER
DISTRIBUTION BOX
18
20
X10017
WITH CCM
WITHOUT CCM
WITH CCM
WITHOUT CCM
1 GE/GR
1 GE/GN
1 GE/RT
1 GE/BL
1 WS/GN
1 WS/BL
8
X1074
A4
CHECK CONTROL
MODULE
12
X1074
15
X1074
A4
CHECK CONTROL
MODULE
13
X1074
1 GE/GN
1 GE/BL
2
X10071
E11
LEFT HIGH BEAM
LIGHT
1
X10071
2
X10074
E12
RIGHT HIGH BEAM
LIGHT
1
X10074
1 GE/GN
2
X10070
E13
LEFT LOW BEAM
LIGHT
1
X10070
1 GE/BL
2
X10075
E14
RIGHT LOW BEAM
LIGHT
1
X10075
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
X165
X173
X165

TURN/HAZARD LIGHTS

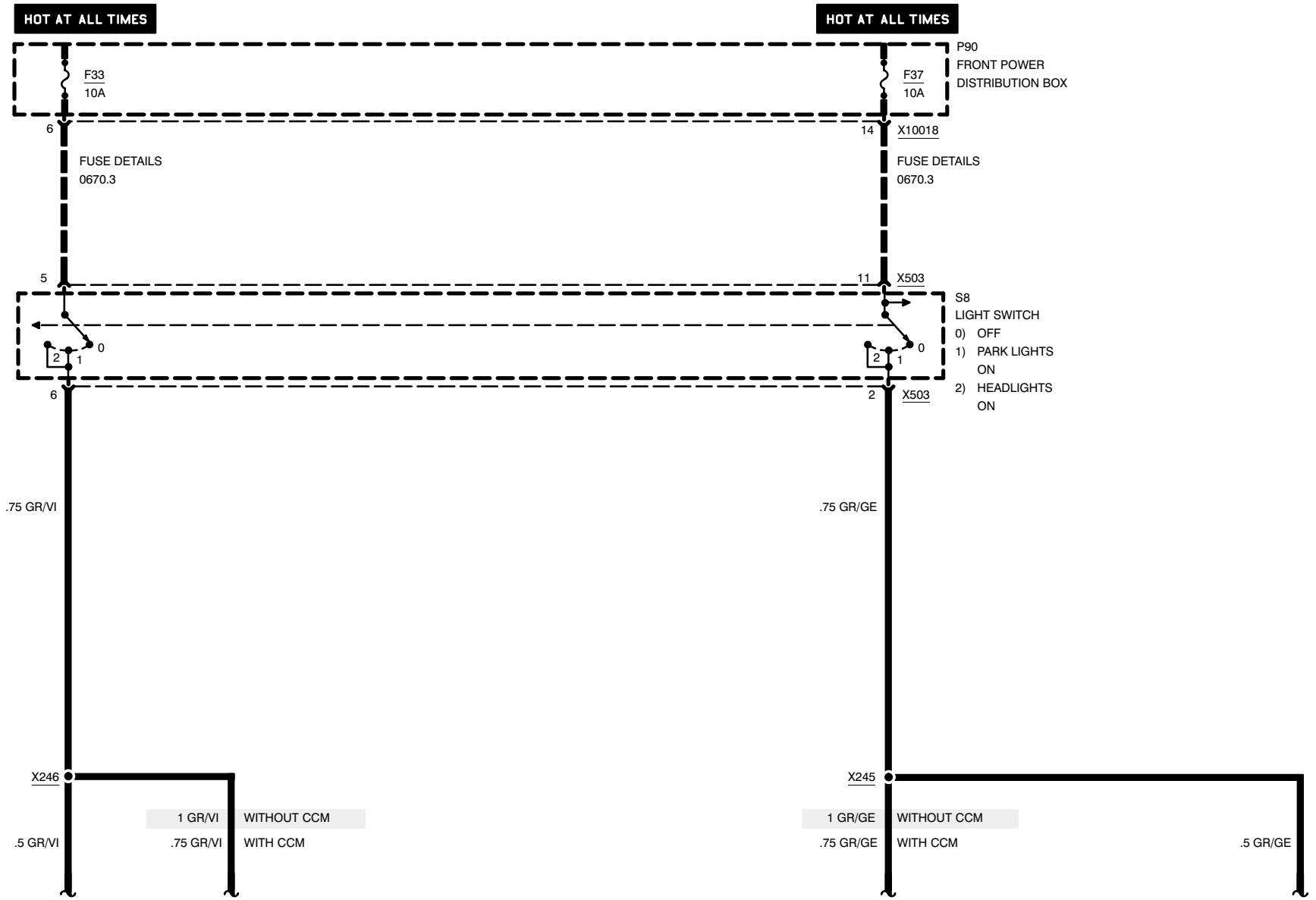


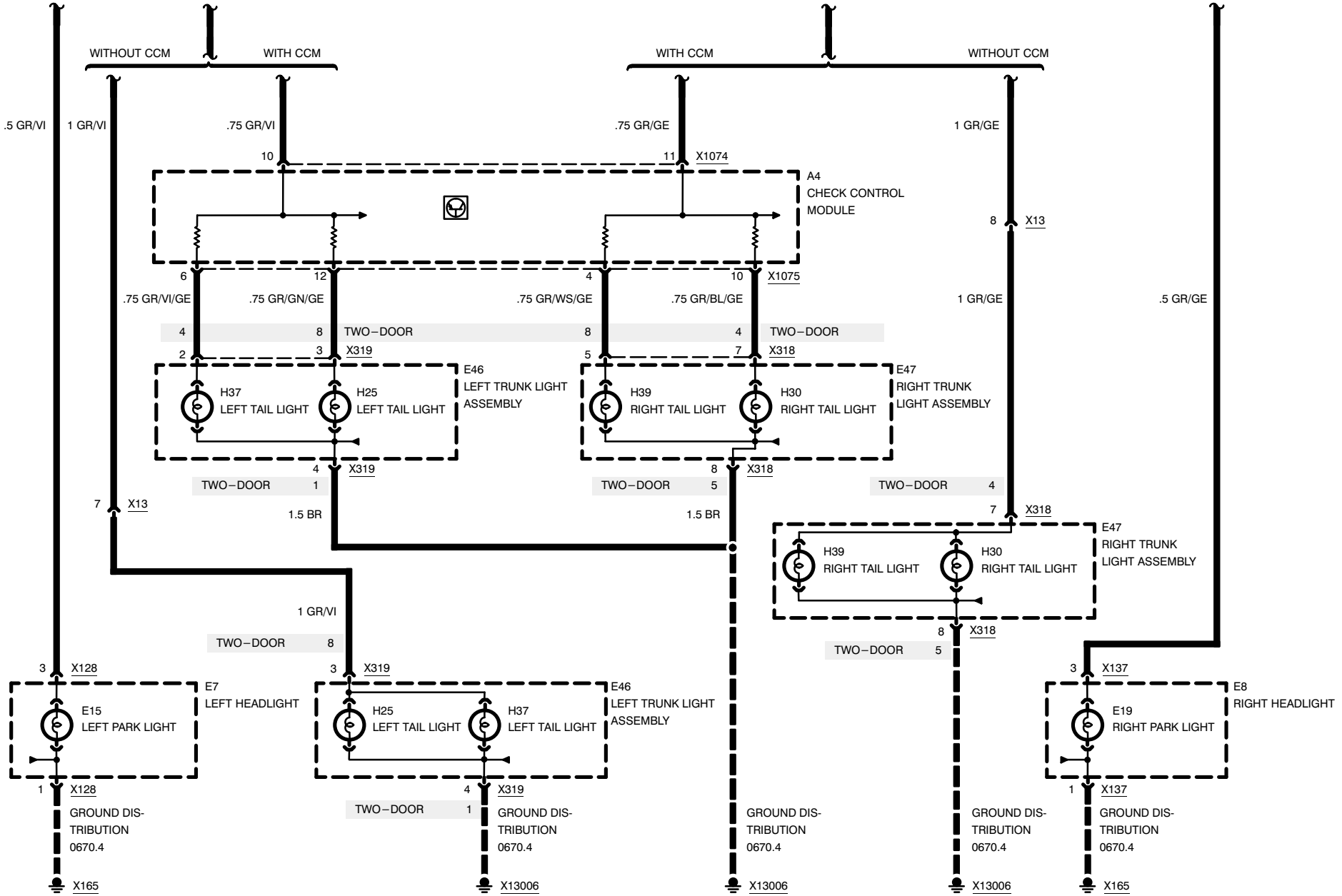

N12w
ANTI–THEFT CONTROL MODULE (ALPINE)
8
X13025
.5 BL/GN/GE
14
X14
.5 BL/GN/GE
2
HOT AT ALL TIMES
F34
15A
P90
FRONT POWER DISTRIBUTION BOX
8
X10018
FUSE DETAILS
0670.3
.5 WS/BL/GE
5
X65
.5 BL/GN
4
NOT USED
3
6
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
GROUND DISTRIBUTION
0670.4
X10010
.5 BR/SW/GE
1
X10182
A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)
7
X13253
LIGHT SWITCH DETAILS
6300.0
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2
X516
S18
HAZARD SWITCH
1) OFF
2) ON
2
1
2
1
.35 BR/SW
34
X74
A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
3
X516
GROUND DISTRIBUTION
0670.4
X10012

TURN/HAZARD LIGHTS

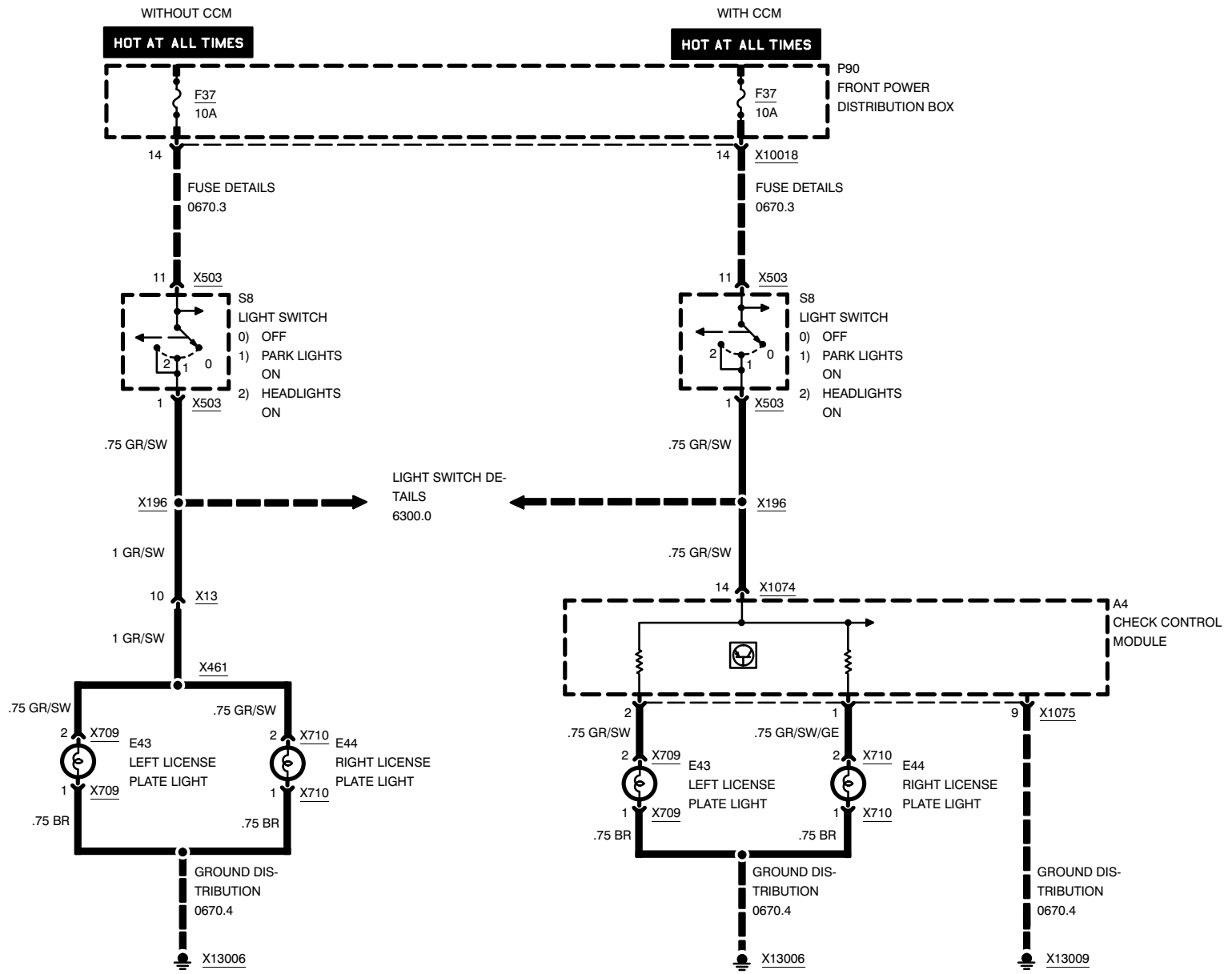


PARK/TAIL LIGHTS

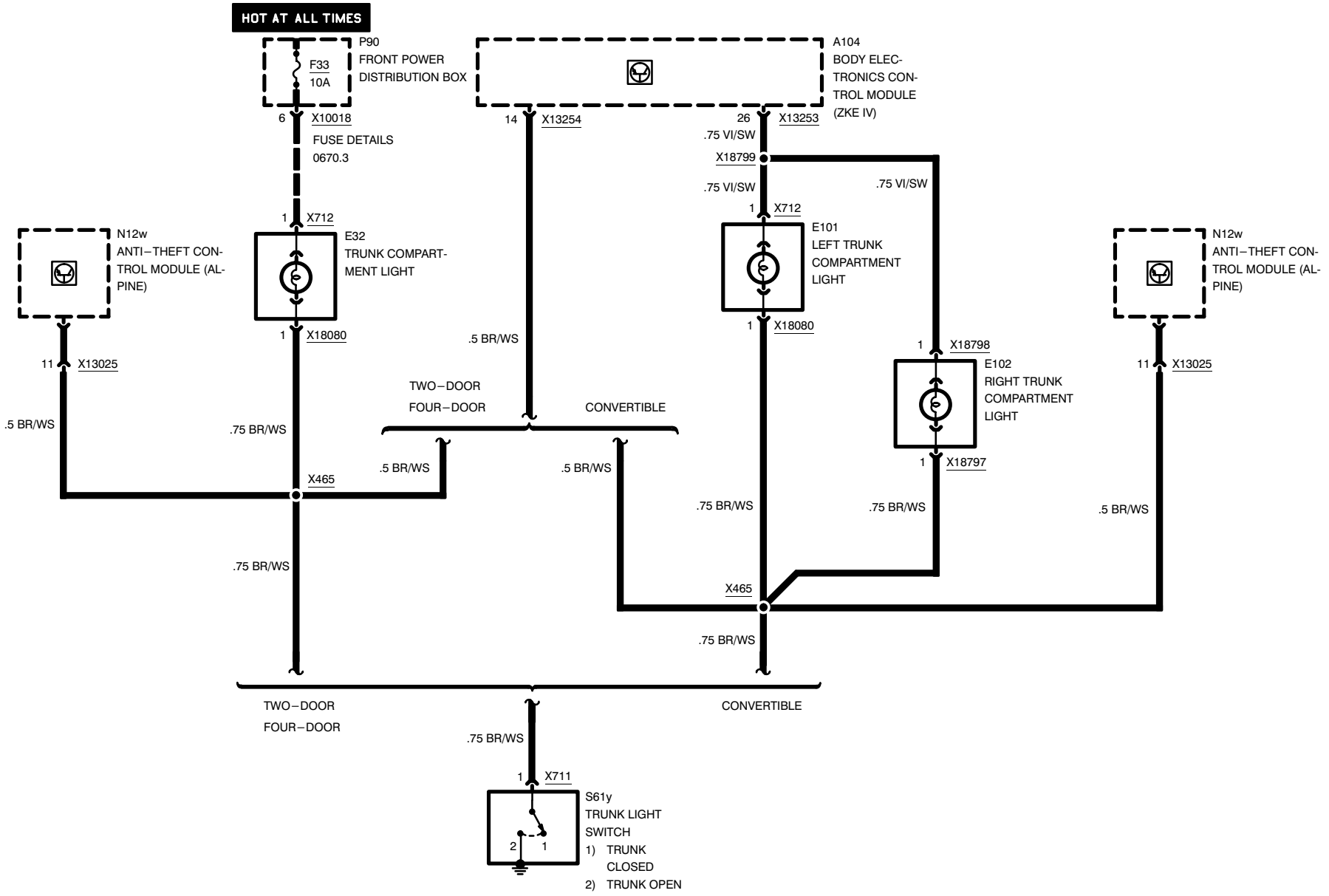



WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.5 GR/VI
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
10
11
X1074
A4
CHECK CONTROL
MODULE
8
X13
6
12
4
10
X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
1 GR/GE
.5 GR/GE
4
8
TWO–DOOR
8
4
TWO–DOOR
2
3
X319
5
7
X318
E46
LEFT TRUNK LIGHT
ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT TAIL LIGHT
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
4
X319
TWO–DOOR
1
8
X318
TWO–DOOR
5
TWO–DOOR
4
7
X13
1.5 BR
1.5 BR
7
X318
E47
RIGHT TRUNK
LIGHT ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
1 GR/VI
8
X318
TWO–DOOR
8
TWO–DOOR
5
3
X128
3
X319
3
X137
E7
LEFT HEADLIGHT
E15
LEFT PARK LIGHT
E46
LEFT TRUNK LIGHT
ASSEMBLY
H25
LEFT TAIL LIGHT
H37
LEFT TAIL LIGHT
E8
RIGHT HEADLIGHT
E19
RIGHT PARK LIGHT
1
X128
4
X319
TWO–DOOR
1
1
X137
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
GROUND DIS-
TRIBUTION
0670.4
X165
X13006
X13006
X13006
X165

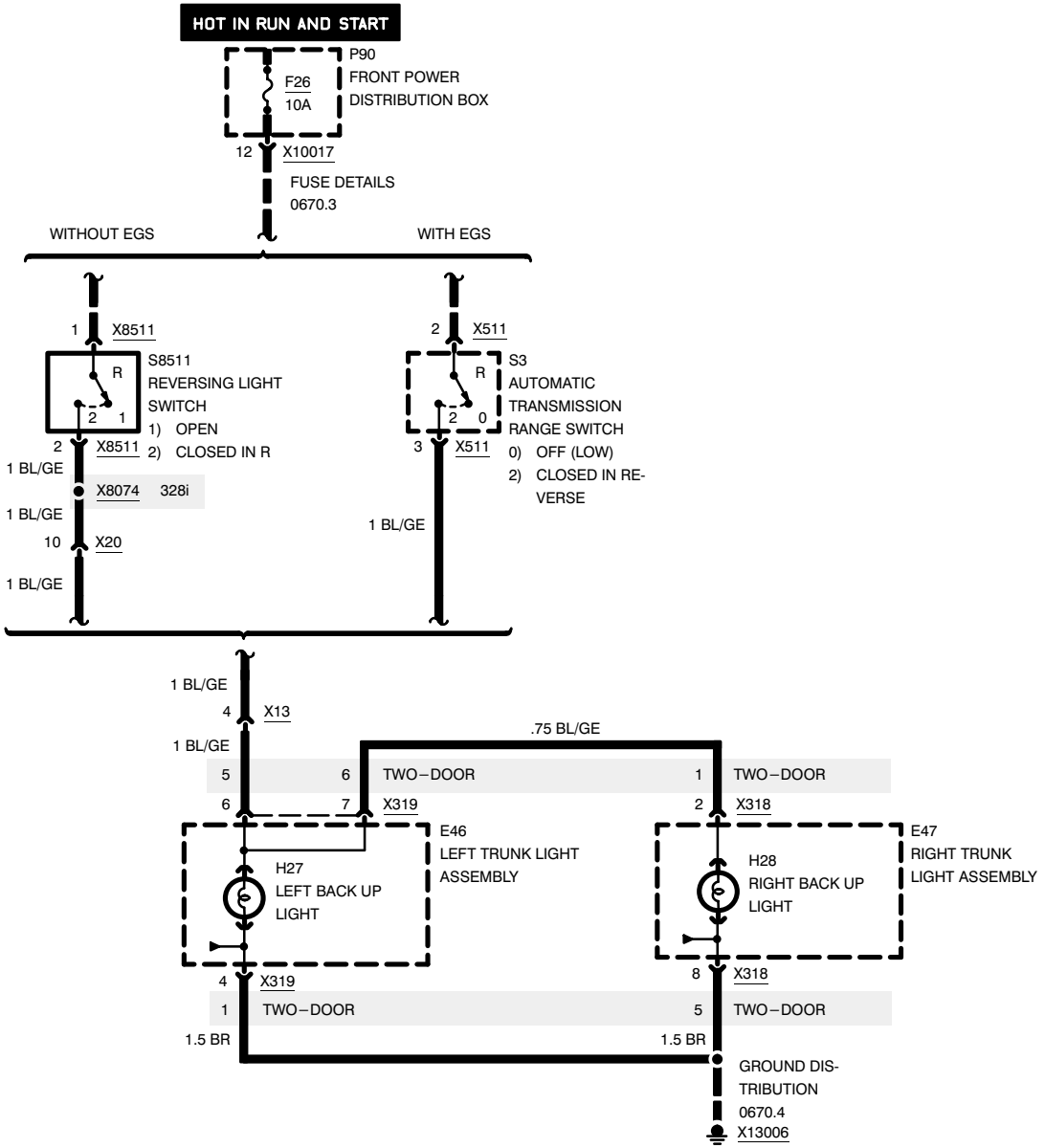
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS

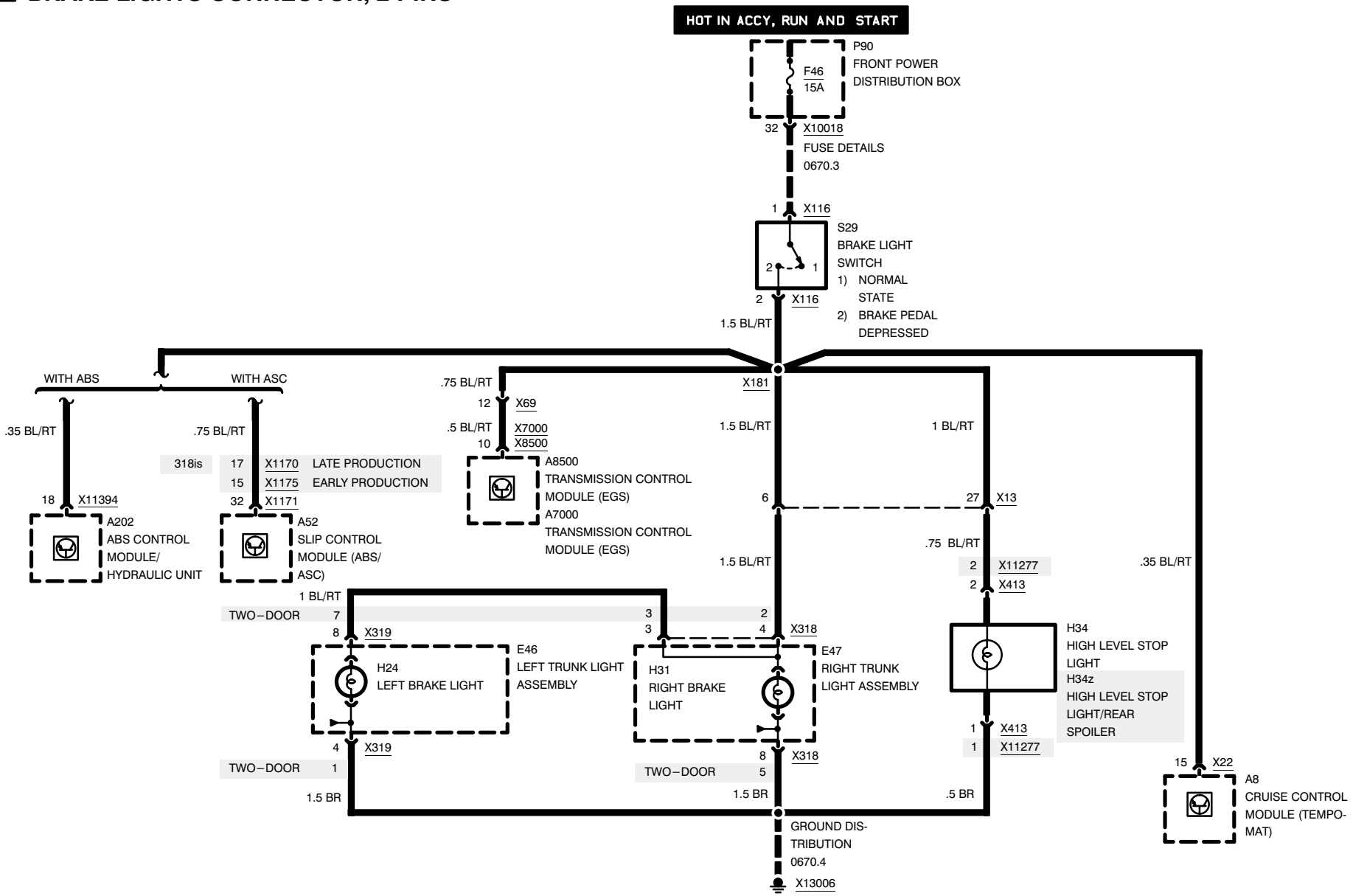


BACK UP LIGHTS



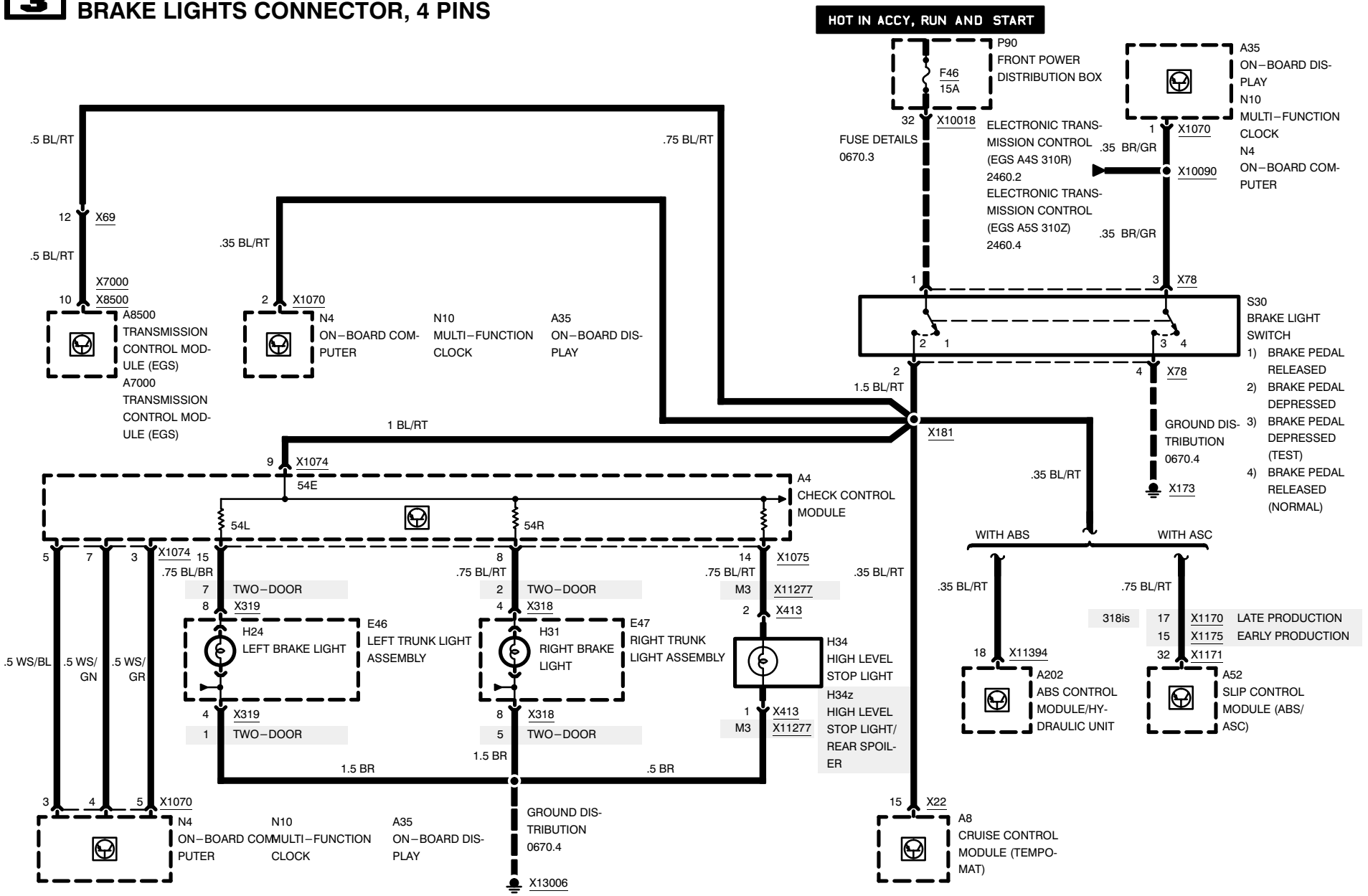
BRAKE LIGHTS

BRAKE LIGHTS CONNECTOR, 2 PINS



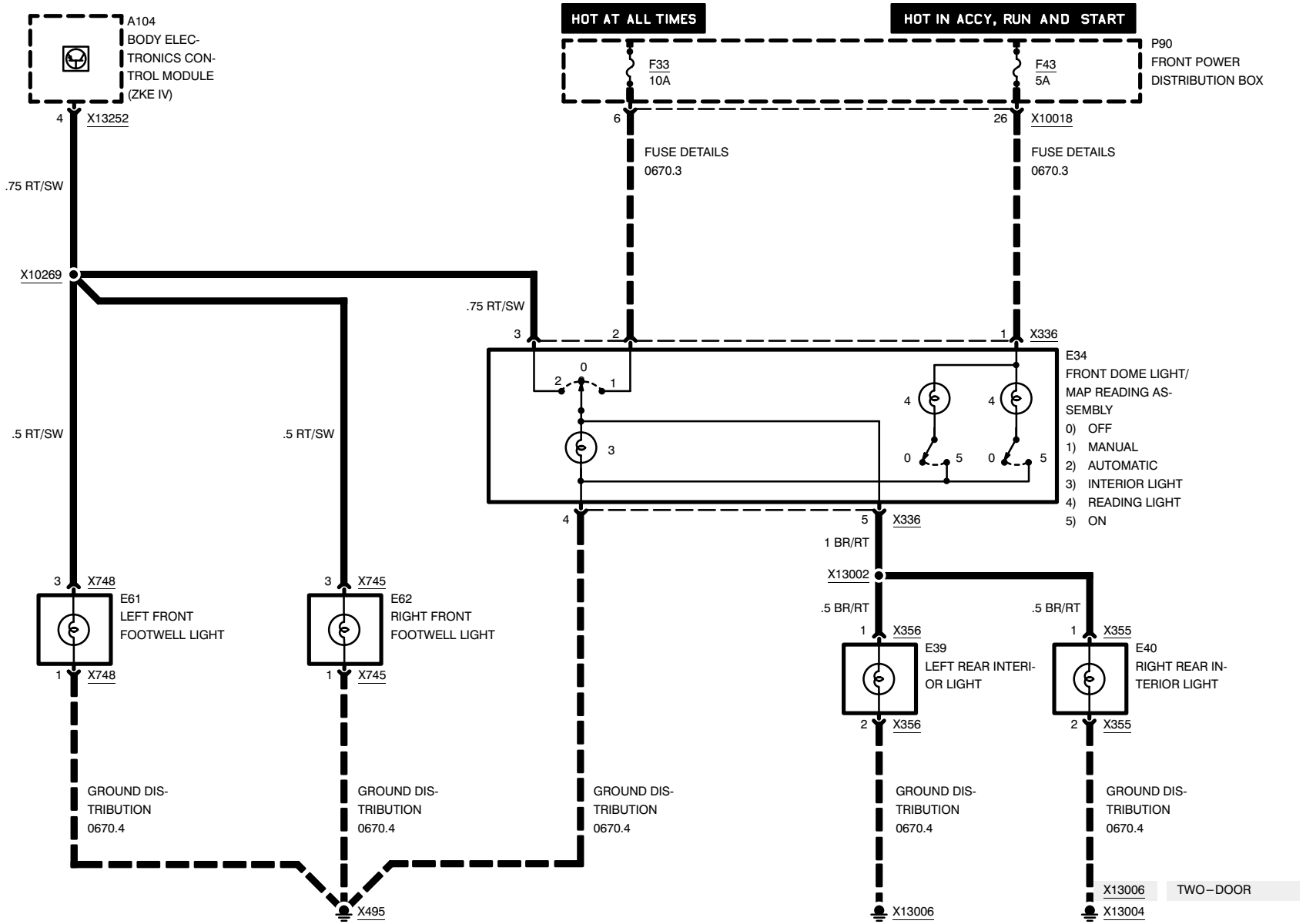
BRAKE LIGHTS

BRAKE LIGHTS CONNECTOR, 4 PINS



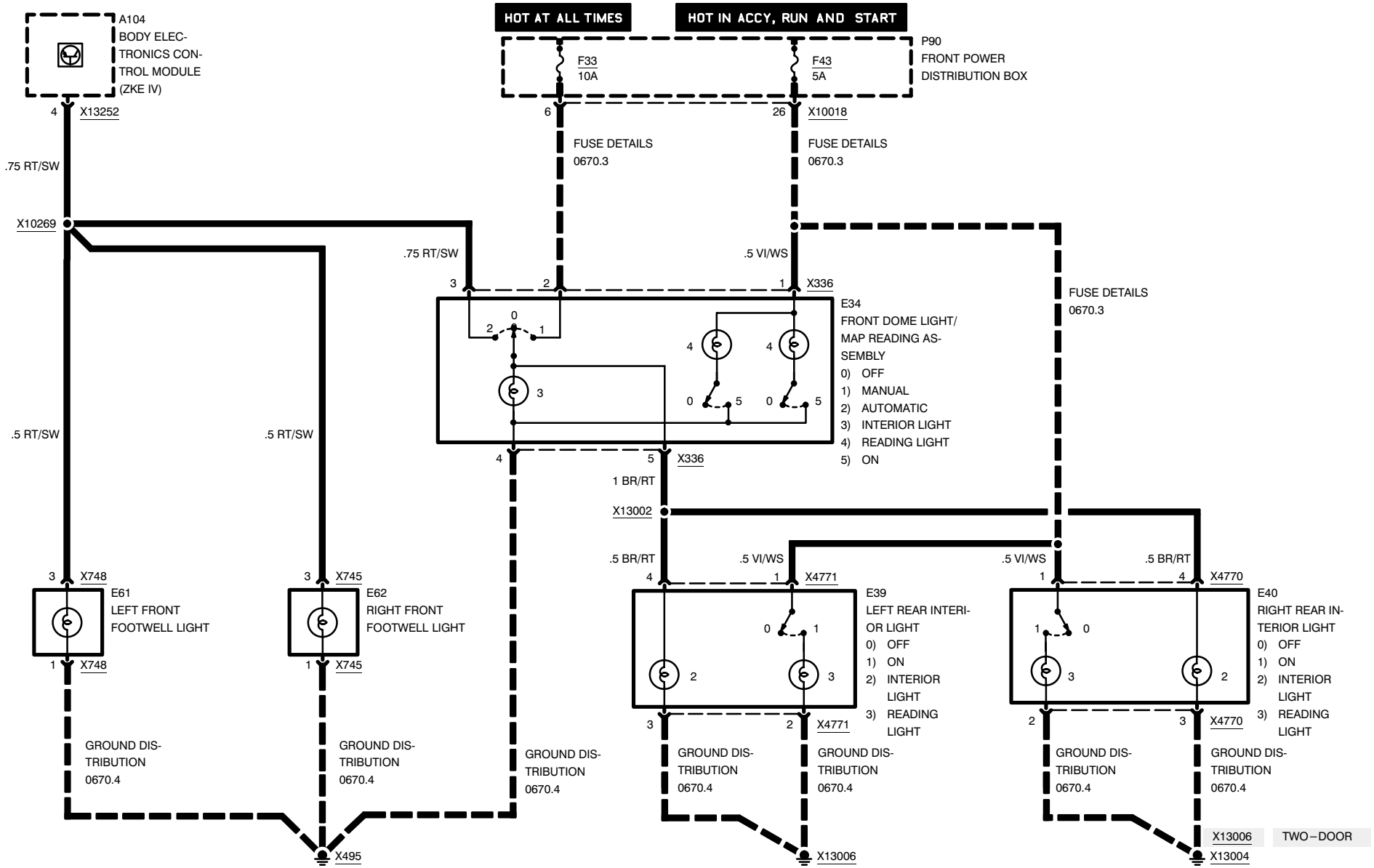
INTERIOR LIGHTS

WITHOUT READING LIGHT



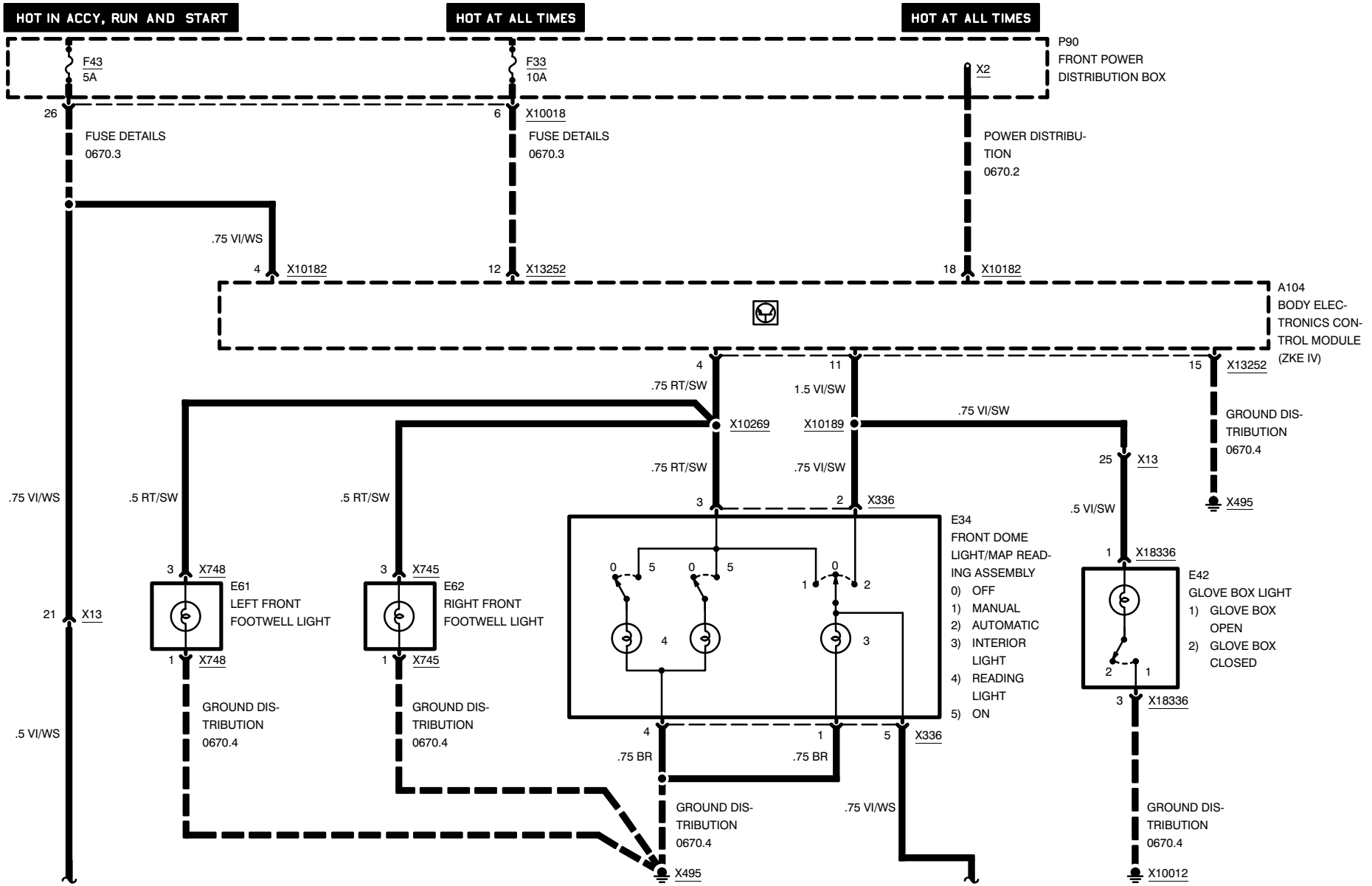
INTERIOR LIGHTS

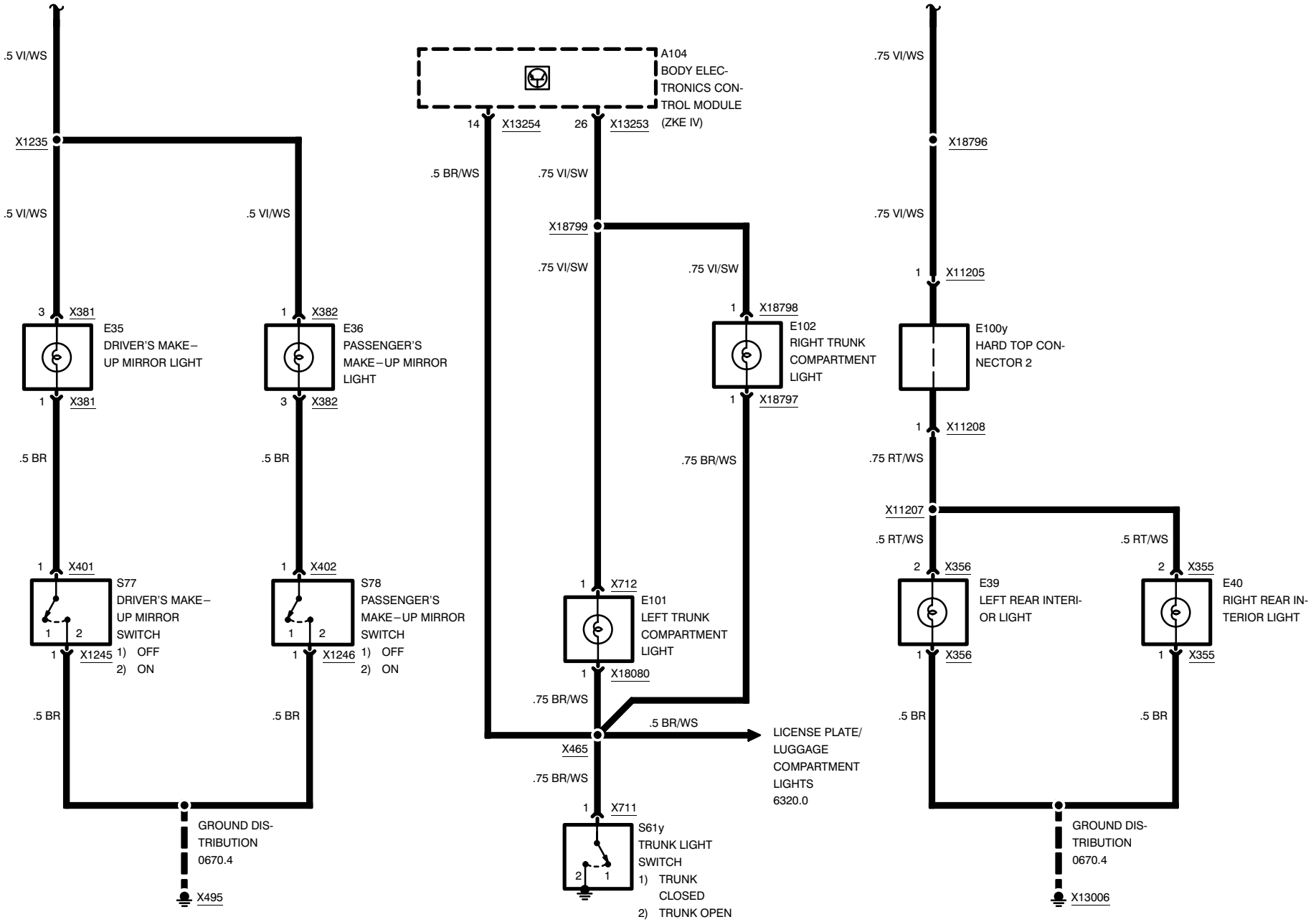
WITH READING LIGHT



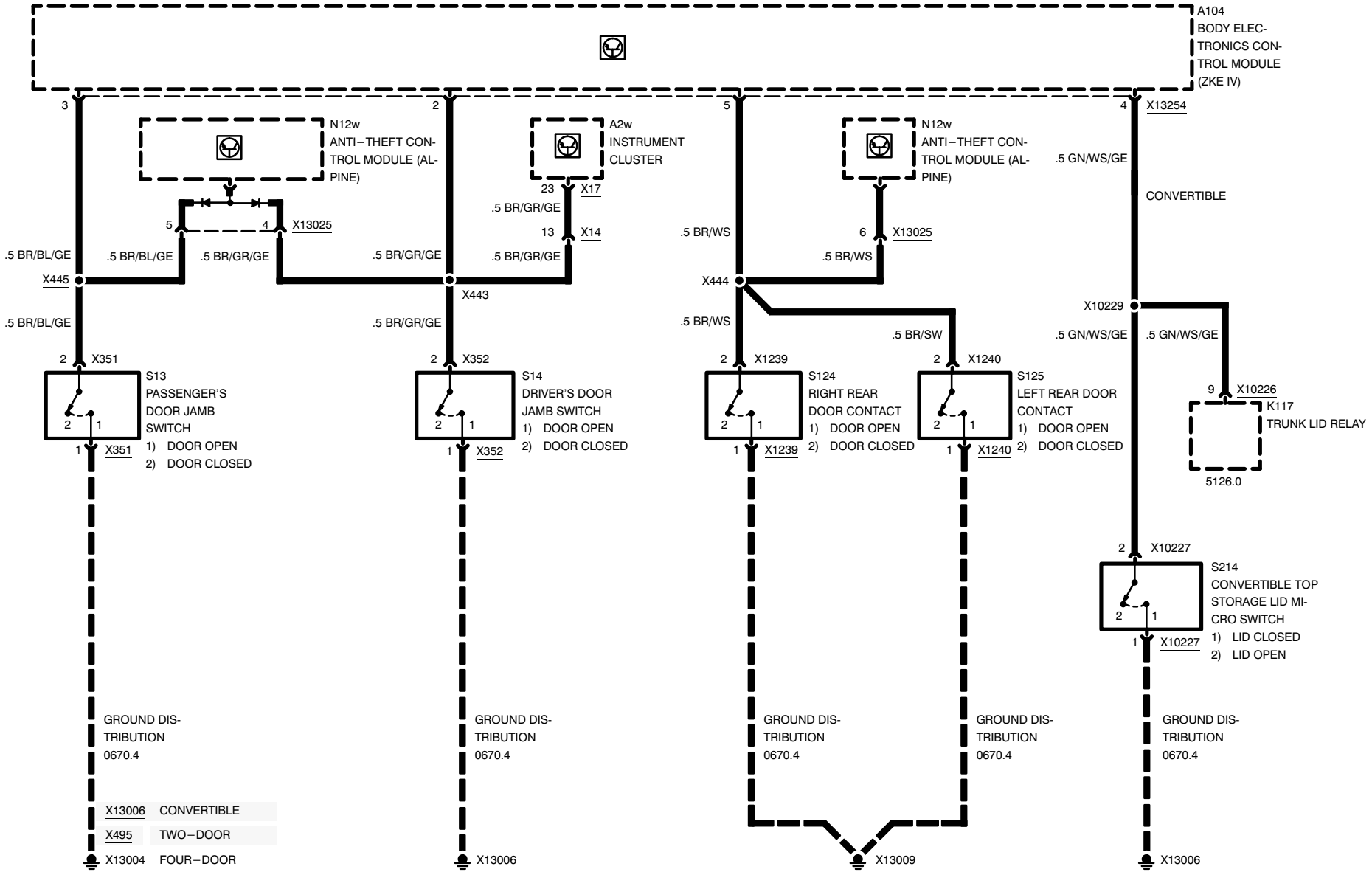
INTERIOR LIGHTS

CONVERTIBLE

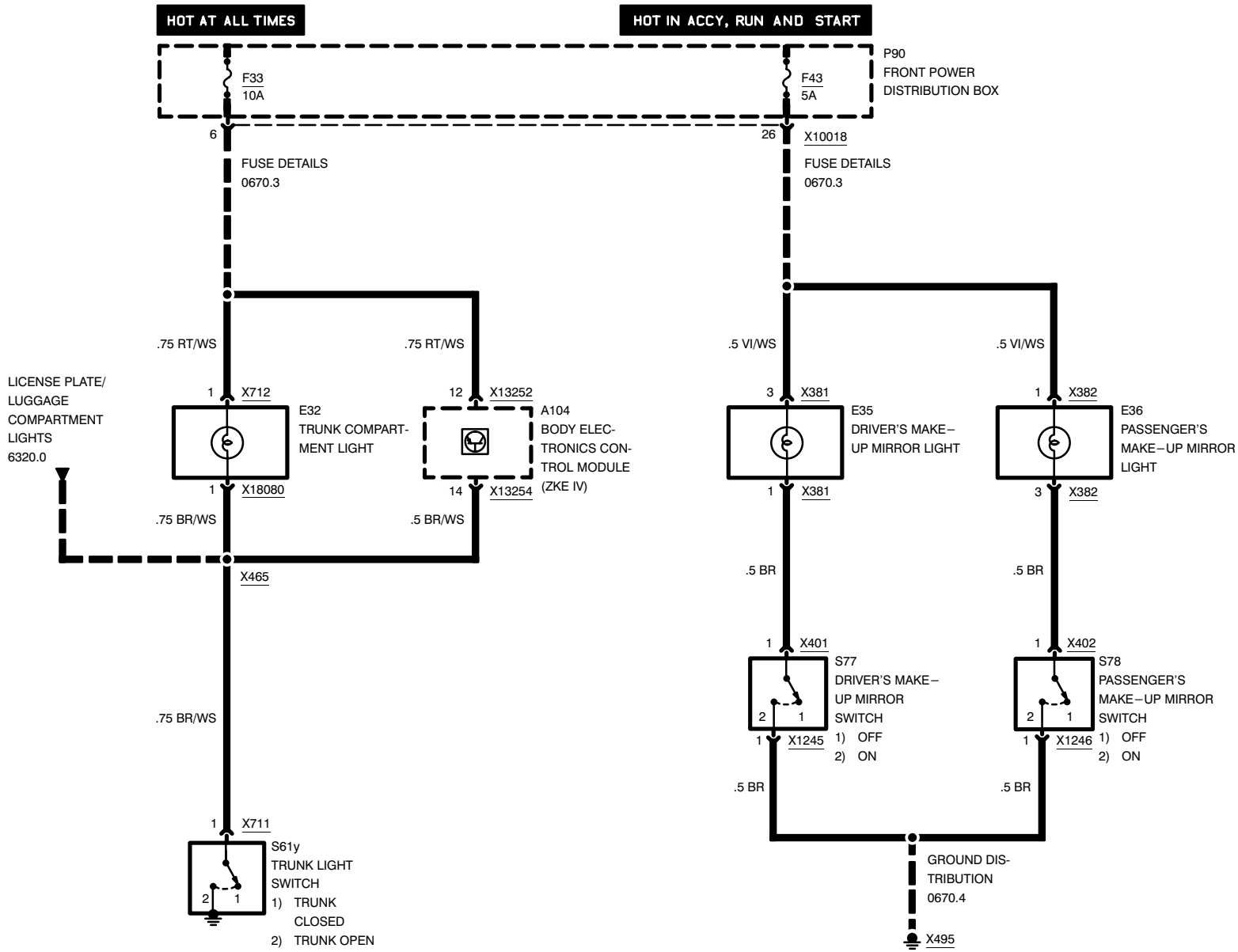



.5 VI/WS
X1235
.5 VI/WS
.5 VI/WS
3 X381
E35
DRIVER'S MAKE–UP MIRROR LIGHT
1 X381
1 X382
E36
PASSENGER'S MAKE–UP MIRROR LIGHT
3 X382
.5 BR
.5 BR
1 X401
S77
DRIVER'S MAKE–UP MIRROR SWITCH
1) OFF
2) ON
1 X1245
1 X402
S78
PASSENGER'S MAKE–UP MIRROR SWITCH
1) OFF
2) ON
1 X1246
.5 BR
.5 BR
GROUND DISTRIBUTION 0670.4
X495
A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)
14 X13254
26 X13253
.5 BR/WS
.75 VI/SW
X18799
.75 VI/SW
.75 VI/SW
1 X18798
E102
RIGHT TRUNK COMPARTMENT LIGHT
1 X18797
.75 BR/WS
1 X712
E101
LEFT TRUNK COMPARTMENT LIGHT
1 X18080
.75 BR/WS
.5 BR/WS
X465
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS 6320.0
.75 BR/WS
1 X711
S61y
TRUNK LIGHT SWITCH
1) TRUNK CLOSED
2) TRUNK OPEN
.75 VI/WS
X18796
.75 VI/WS
1 X11205
E100y
HARD TOP CONNECTOR 2
1 X11208
.75 RT/WS
X11207
.5 RT/WS
.5 RT/WS
2 X356
E39
LEFT REAR INTERIOR LIGHT
1 X356
2 X355
E40
RIGHT REAR INTERIOR LIGHT
1 X355
.5 BR
.5 BR
GROUND DISTRIBUTION 0670.4
X13006

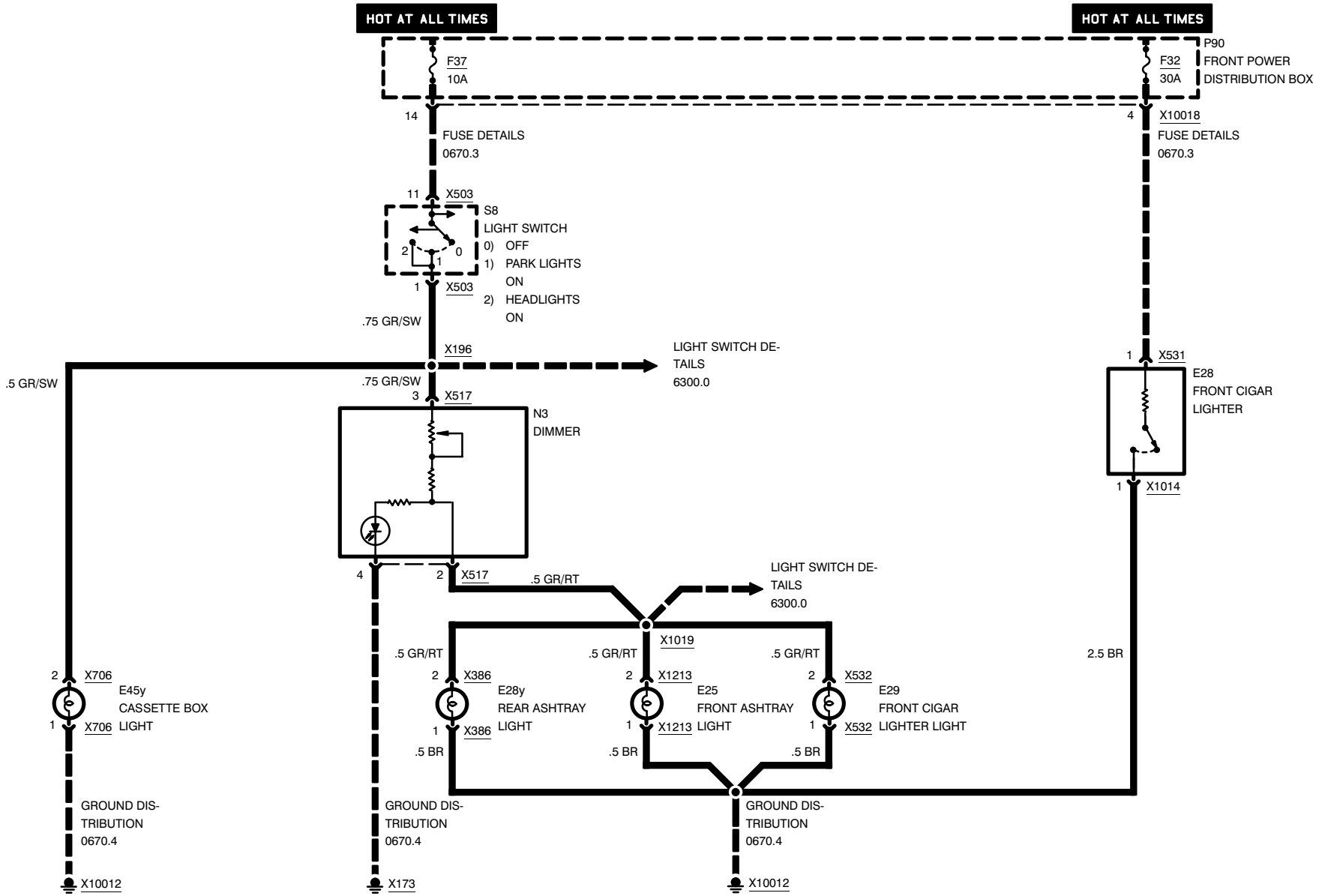
INTERIOR LIGHTS



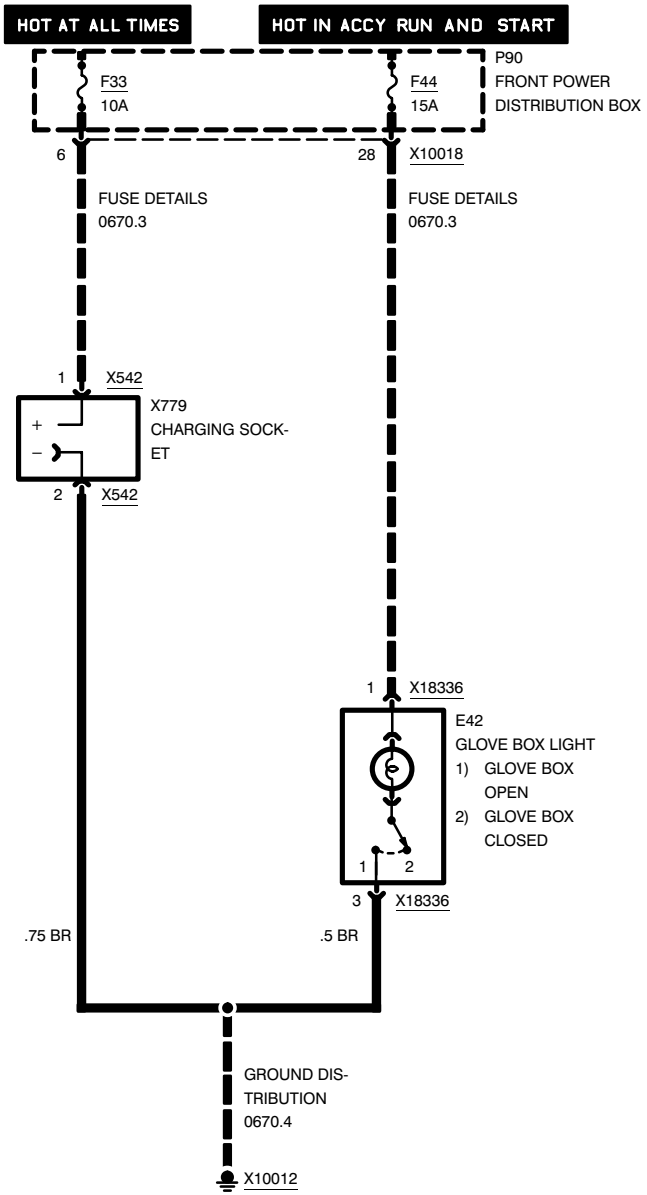
INTERIOR LIGHTS



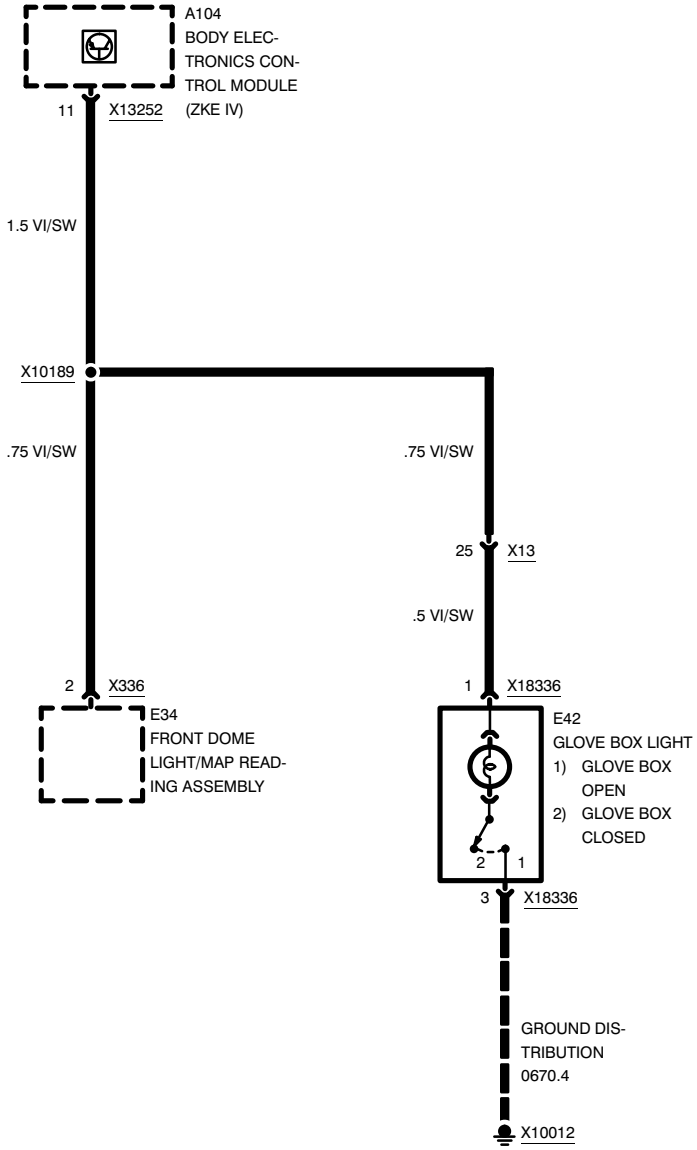
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER



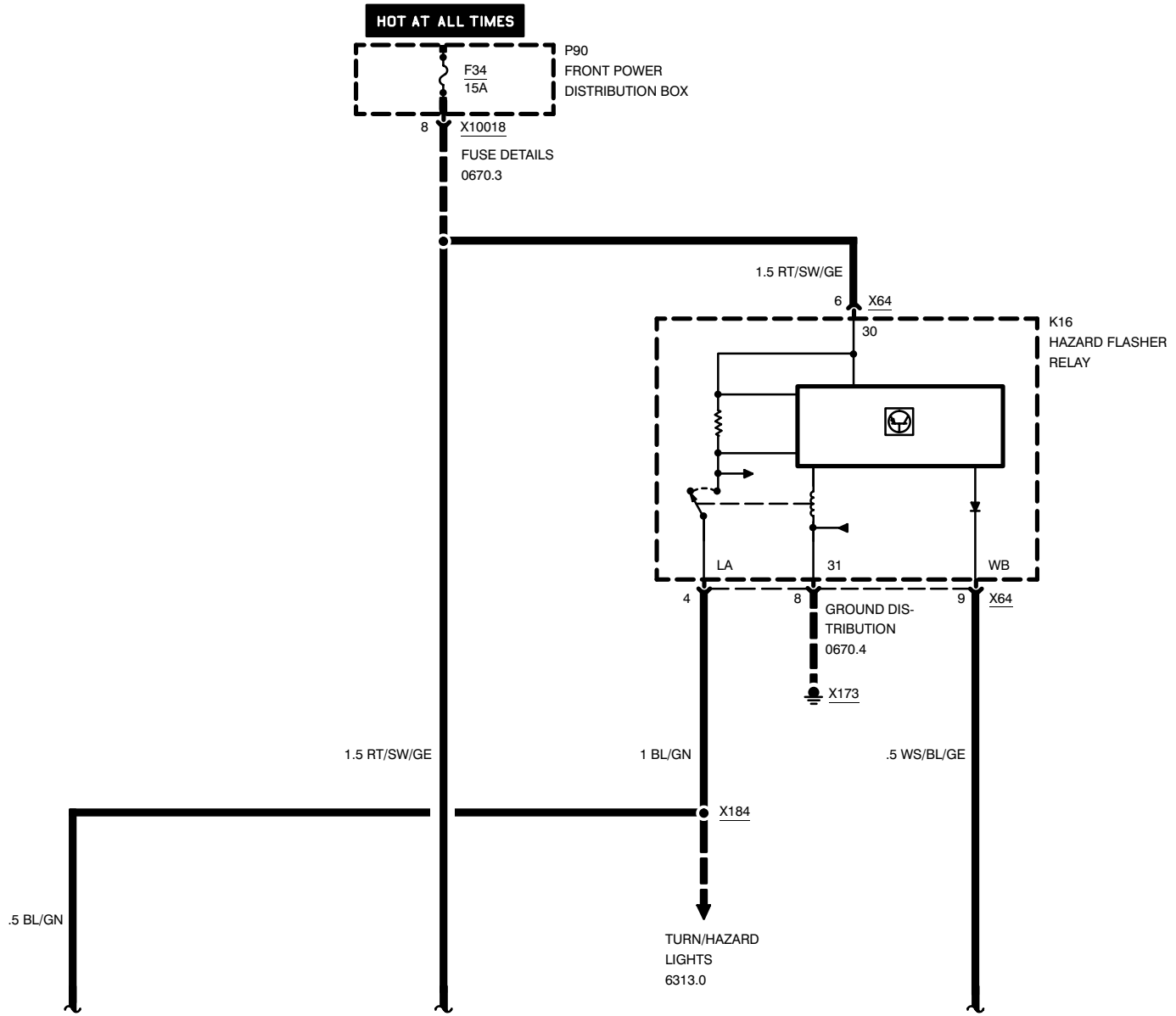
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

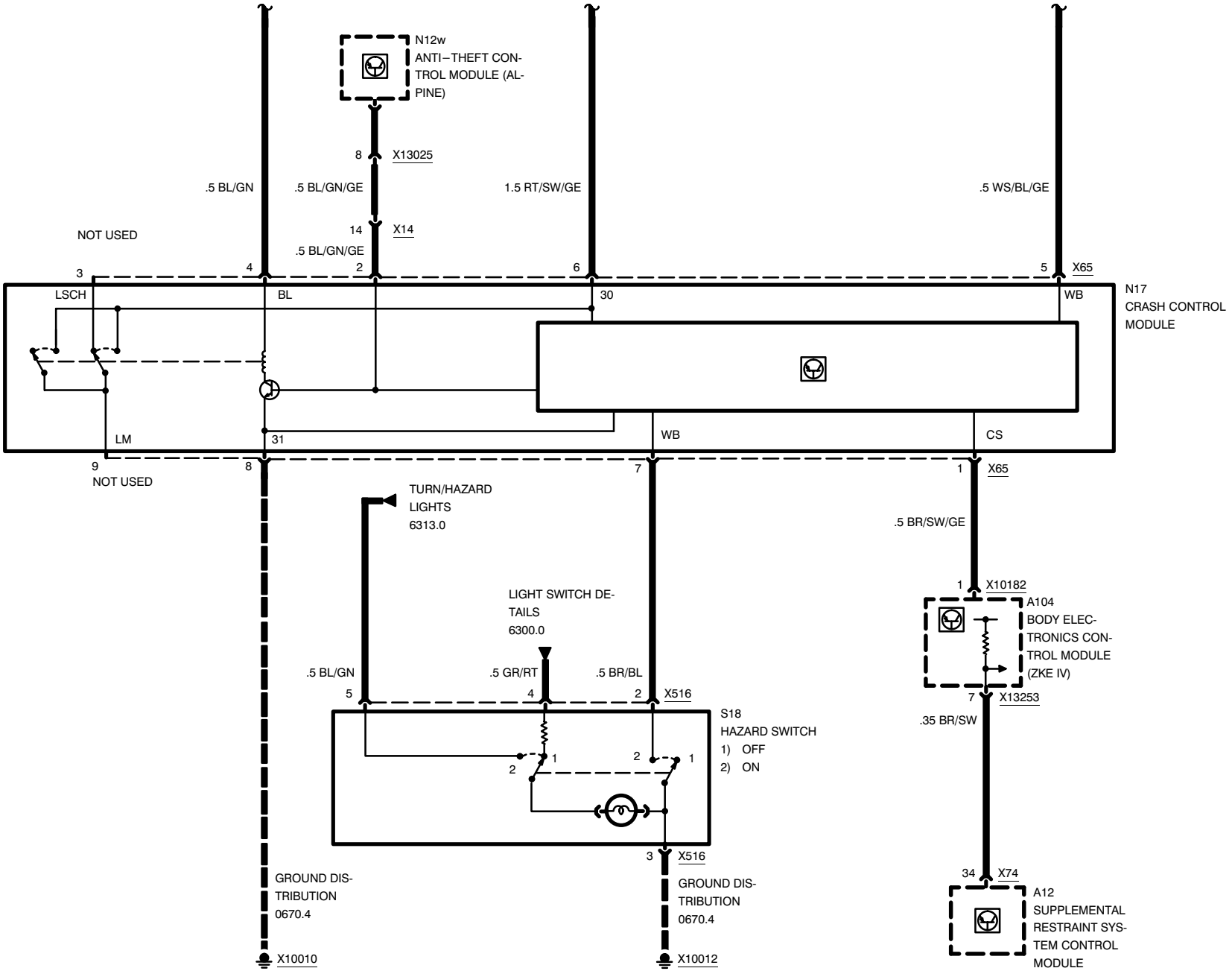


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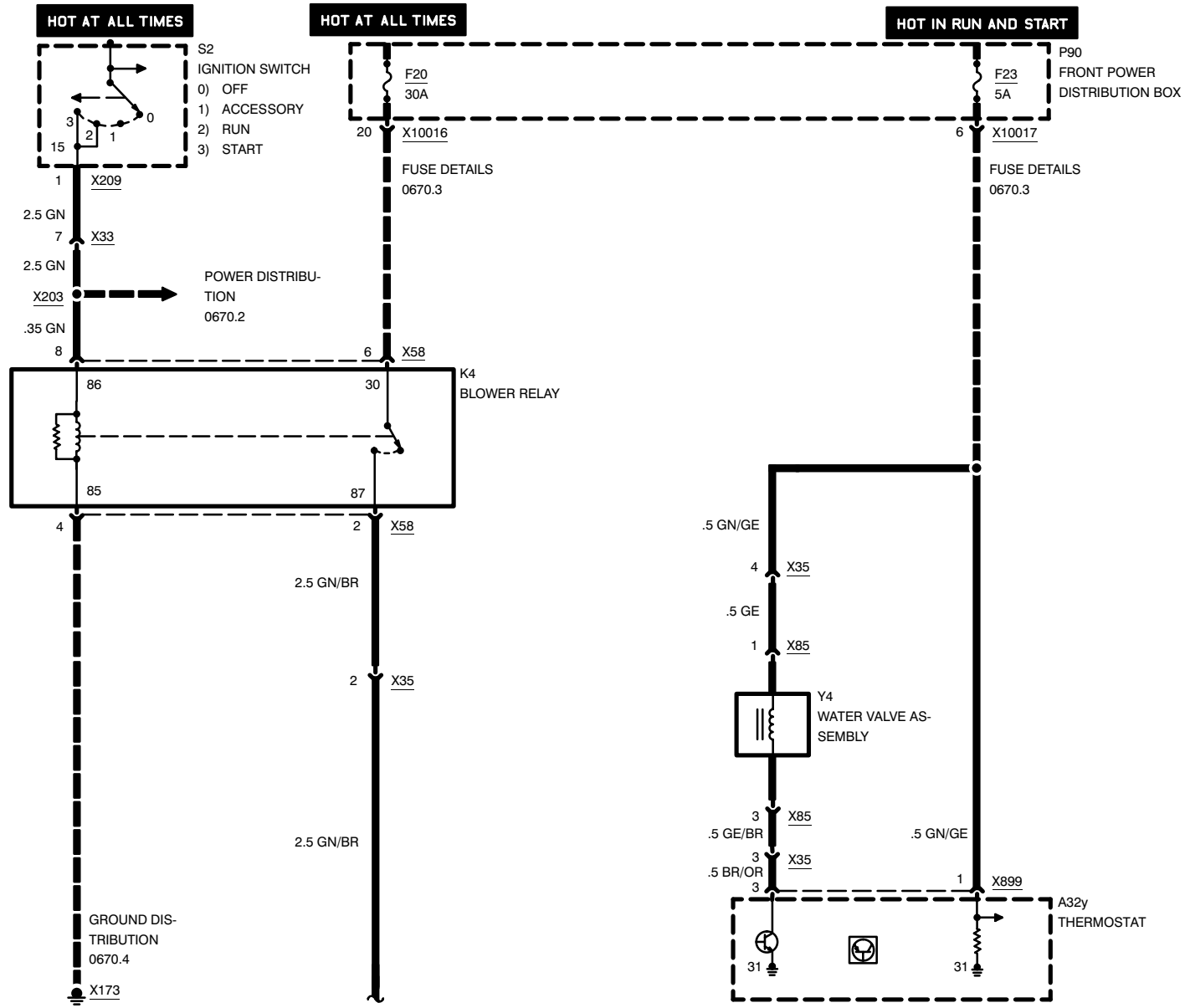
CRASH CONTROL MODULE

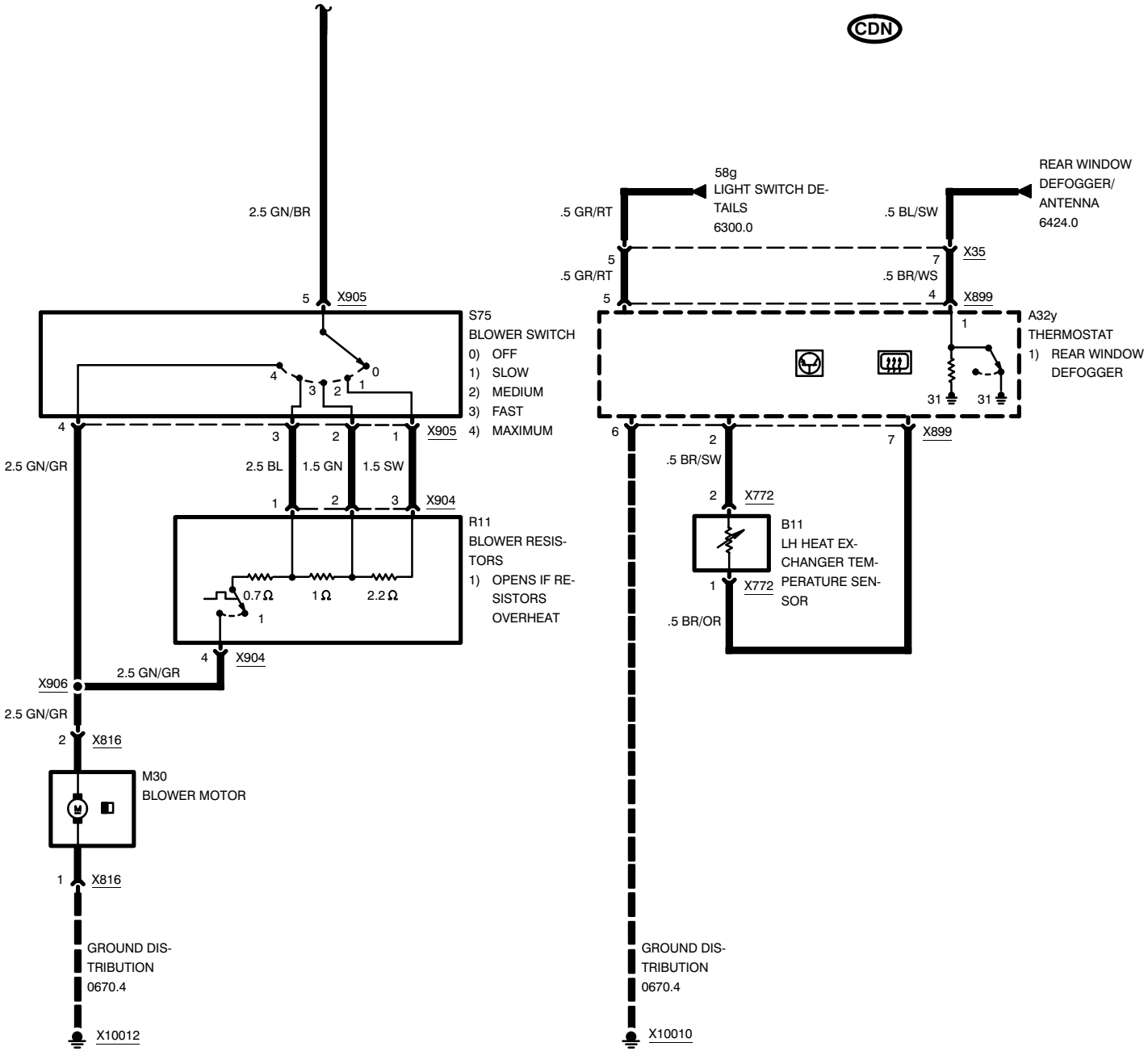



N12w
ANTI–THEFT CONTROL MODULE (ALPINE)
8
X13025
.5 BL/GN
.5 BL/GN/GE
1.5 RT/SW/GE
.5 WS/BL/GE
14
X14
.5 BL/GN/GE
NOT USED
3
4
2
6
5
X65
LSCH
BL
30
WB
N17
CRASH CONTROL MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
TURN/HAZARD LIGHTS
6313.0
.5 BR/SW/GE
1
X10182
A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)
LIGHT SWITCH DETAILS
6300.0
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2
X516
7
X13253
.35 BR/SW
S18
HAZARD SWITCH
1) OFF
2) ON
3
X516
34
X74
A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
GROUND DISTRIBUTION
0670.4
X10010
GROUND DISTRIBUTION
0670.4
X10012

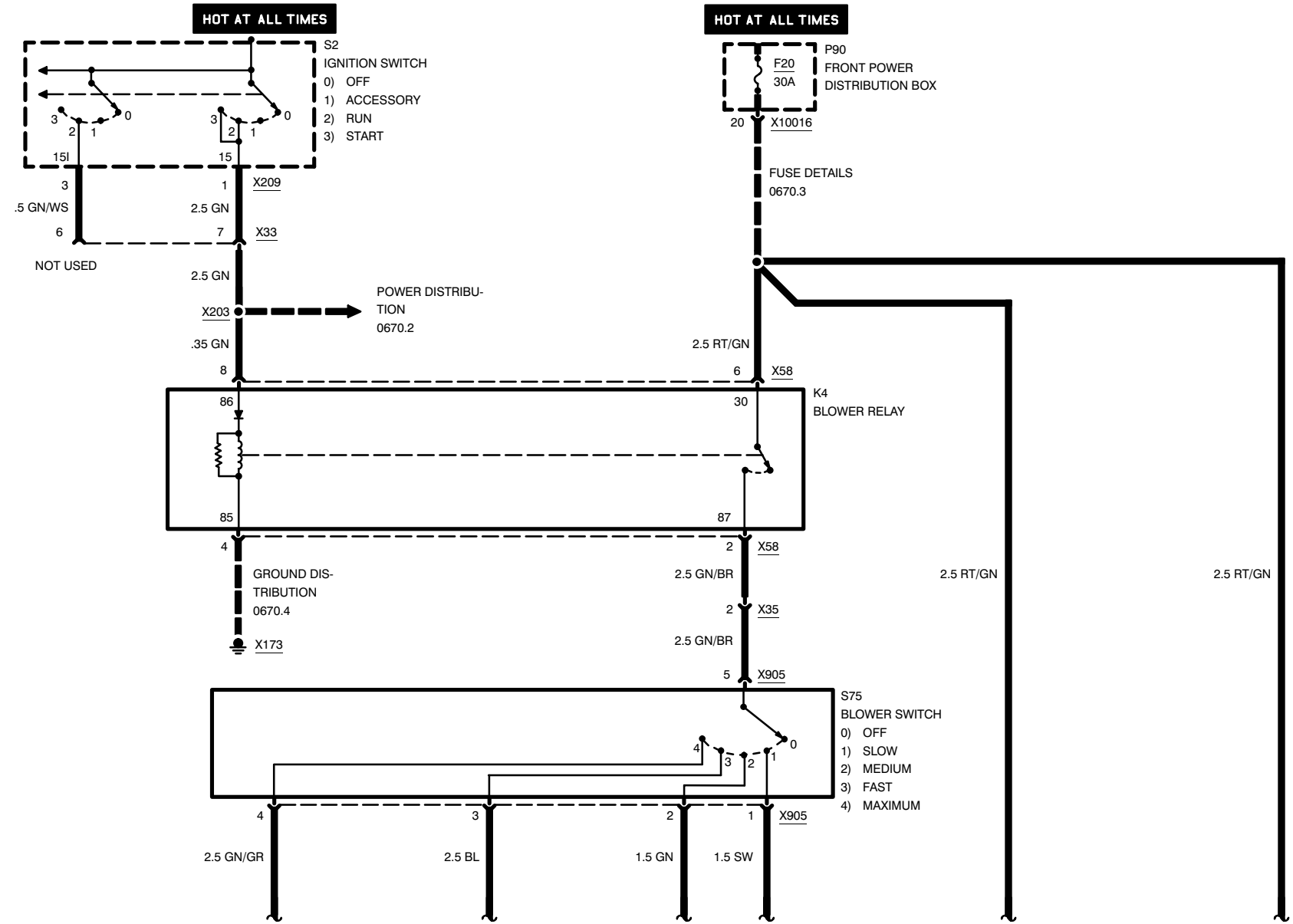
HEATING CONTROL (HR)

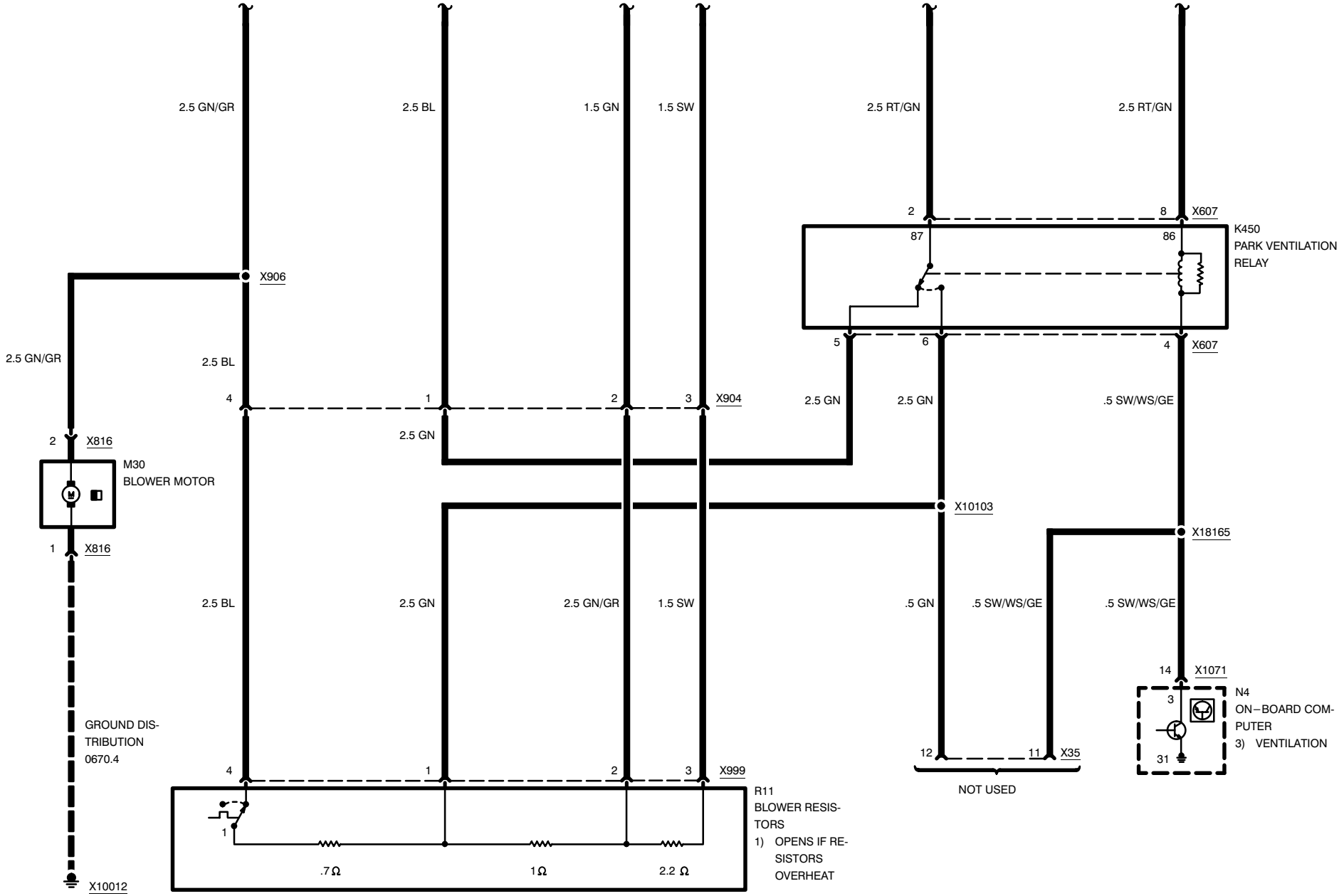
CDN



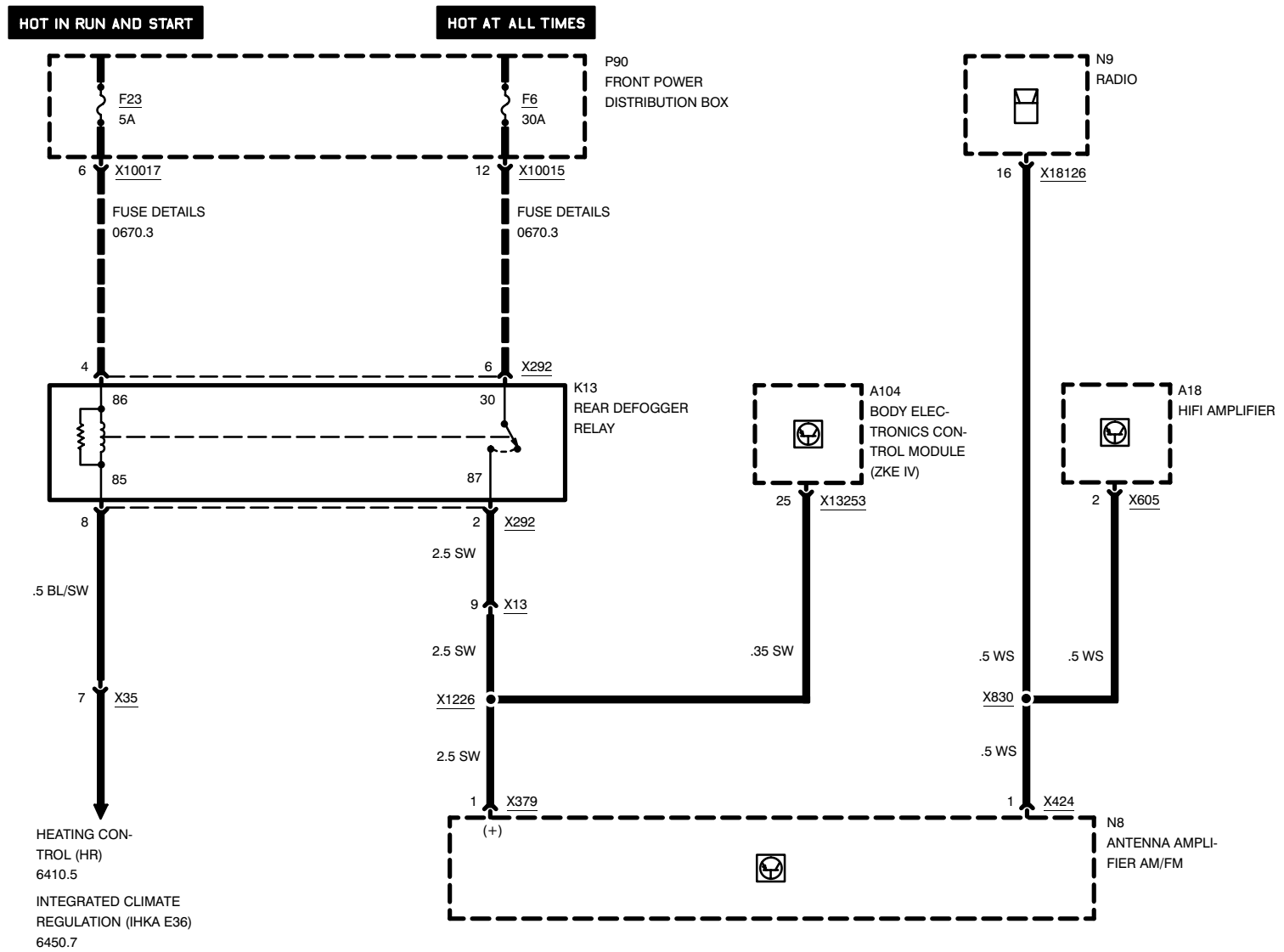

CDN
2.5 GN/BR
5 X905
S75
BLOWER SWITCH
0) OFF
1) SLOW
2) MEDIUM
3) FAST
4) MAXIMUM
4 3 2 1 X905
2.5 GN/GR
2.5 BL
1.5 GN
1.5 SW
1 2 3 X904
R11
BLOWER RESISTORS
1) OPENS IF RESISTORS OVERHEAT
0.7 Ω
1 Ω
2.2 Ω
4 X904
X906
2.5 GN/GR
2.5 GN/GR
2 X816
M30
BLOWER MOTOR
1 X816
GROUND DISTRIBUTION
0670.4
X10012
58g
LIGHT SWITCH DETAILS
6300.0
.5 GR/RT
REAR WINDOW DEFOGGER/ ANTENNA
6424.0
.5 BL/SW
5
.5 GR/RT
5
7
.5 BR/WS
4
X35
X899
A32y
THERMOSTAT
1) REAR WINDOW DEFOGGER
1
31
31
6
2
.5 BR/SW
7
X899
2 X772
B11
LH HEAT EXCHANGER TEMPERATURE SENSOR
1 X772
.5 BR/OR
GROUND DISTRIBUTION
0670.4
X10010

PARK VENTILATION WITH HR



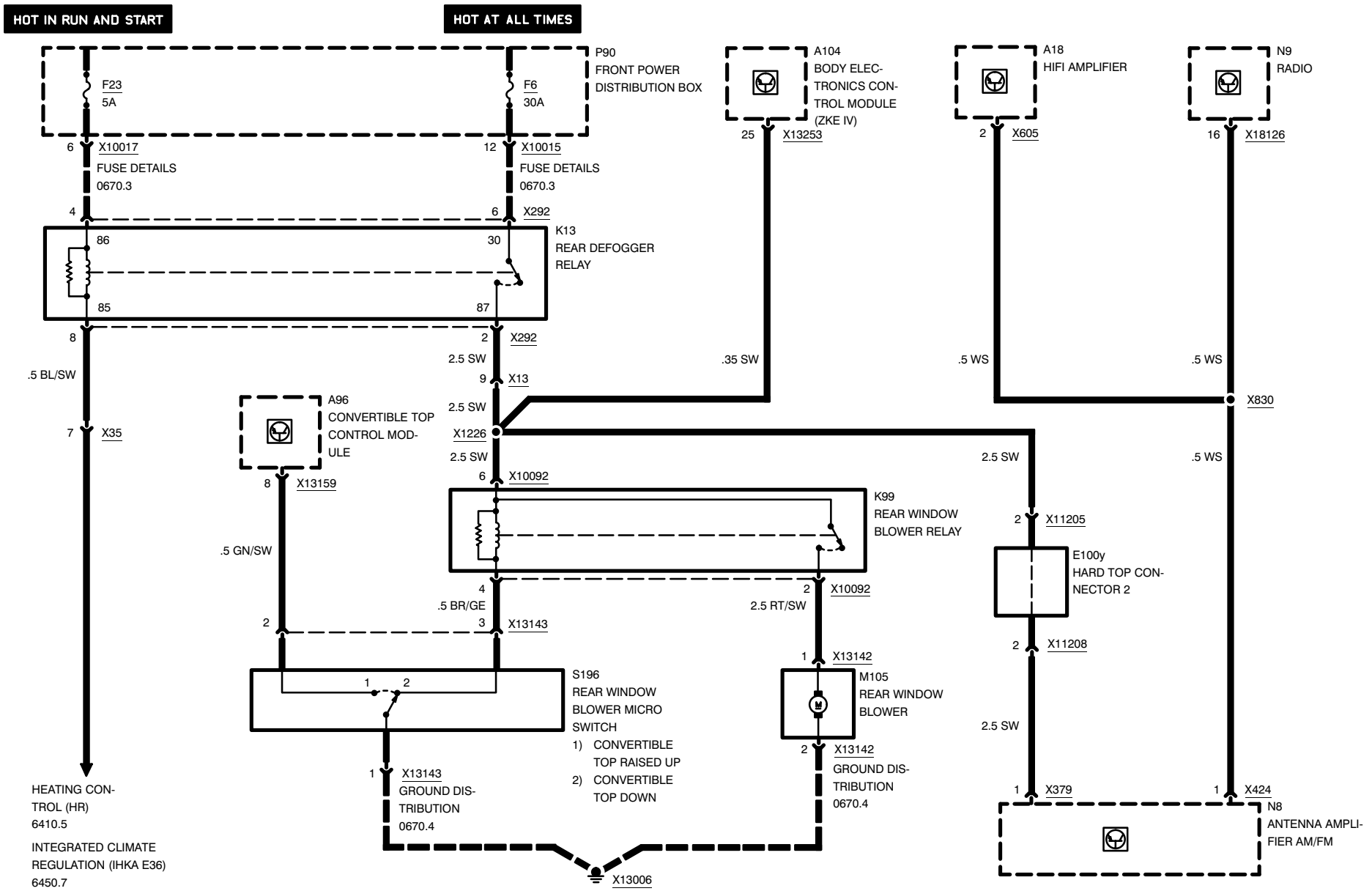

2.5 GN/GR
2.5 BL
1.5 GN
1.5 SW
2.5 RT/GN
2.5 RT/GN
X906
2
8
X607
87
86
K450
PARK VENTILATION
RELAY
5
6
4
X607
2.5 GN/GR
2.5 BL
4
1
2
3
X904
2.5 GN
2.5 GN
.5 SW/WS/GE
2
X816
M30
BLOWER MOTOR
2.5 GN
X10103
X18165
1
X816
2.5 BL
2.5 GN
2.5 GN/GR
1.5 SW
.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
14
X1071
3
N4
ON–BOARD COM-
PUTER
3) VENTILATION
31
GROUND DIS-
TRIBUTION
0670.4
12
11
X35
NOT USED
4
1
2
3
X999
R11
BLOWER RESIS-
TORS
1) OPENS IF RE-
SISTORS
OVERHEAT
1
.7 Ω
1 Ω
2.2 Ω
X10012

REAR WINDOW DEFOGGER/ANTENNA



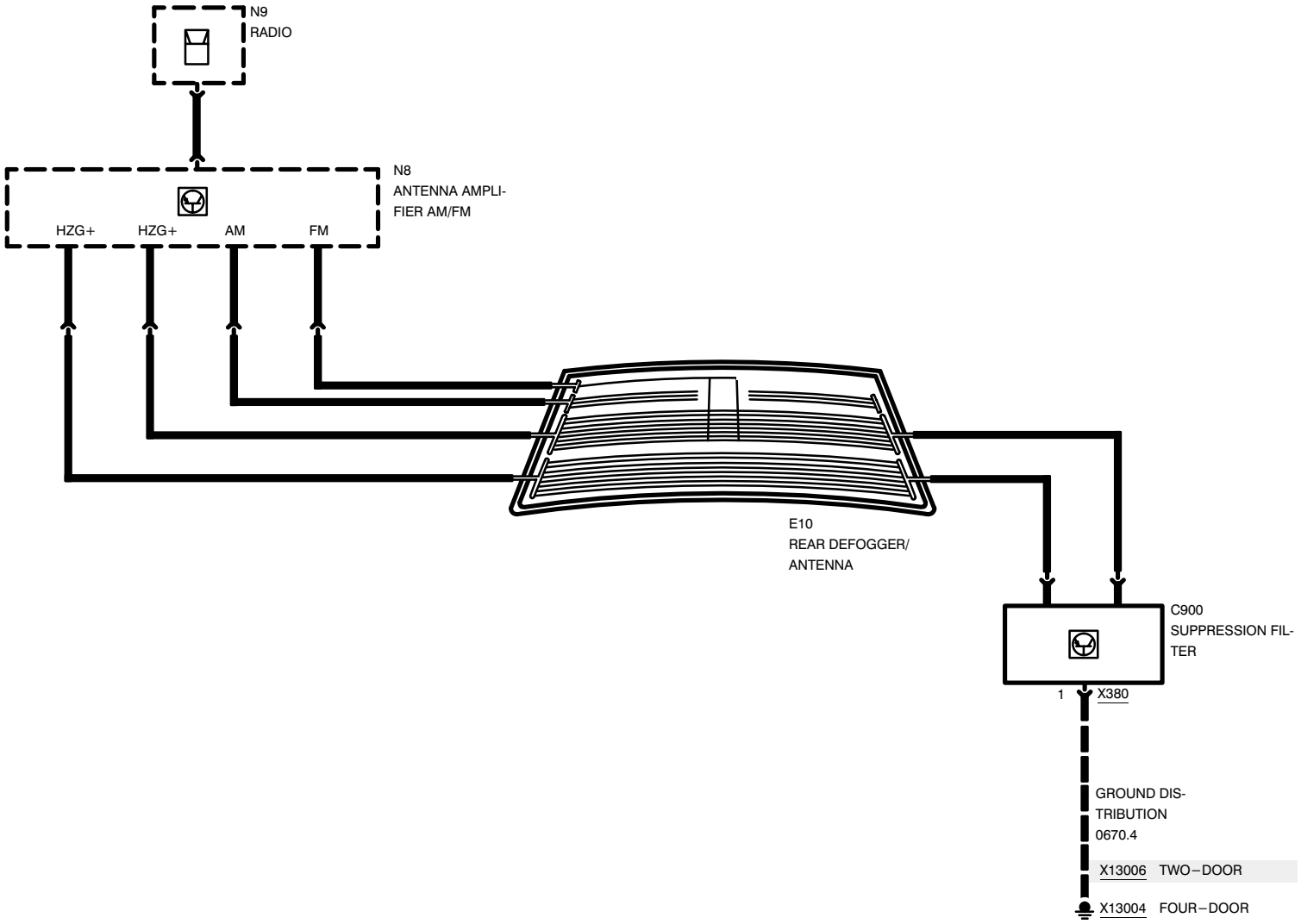
REAR WINDOW DEFOGGER/ANTENNA

CONVERTIBLE



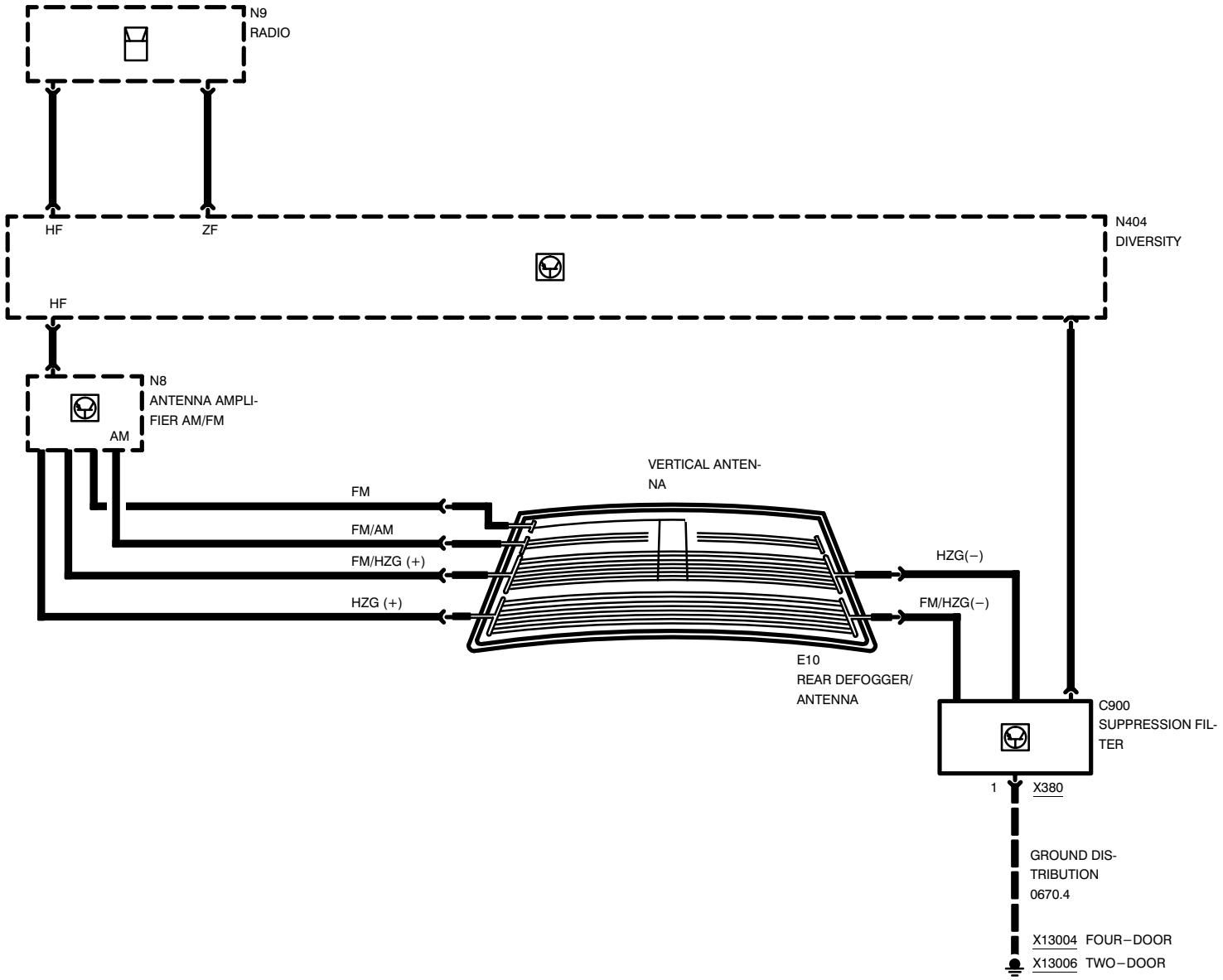
REAR WINDOW DEFOGGER/ANTENNA

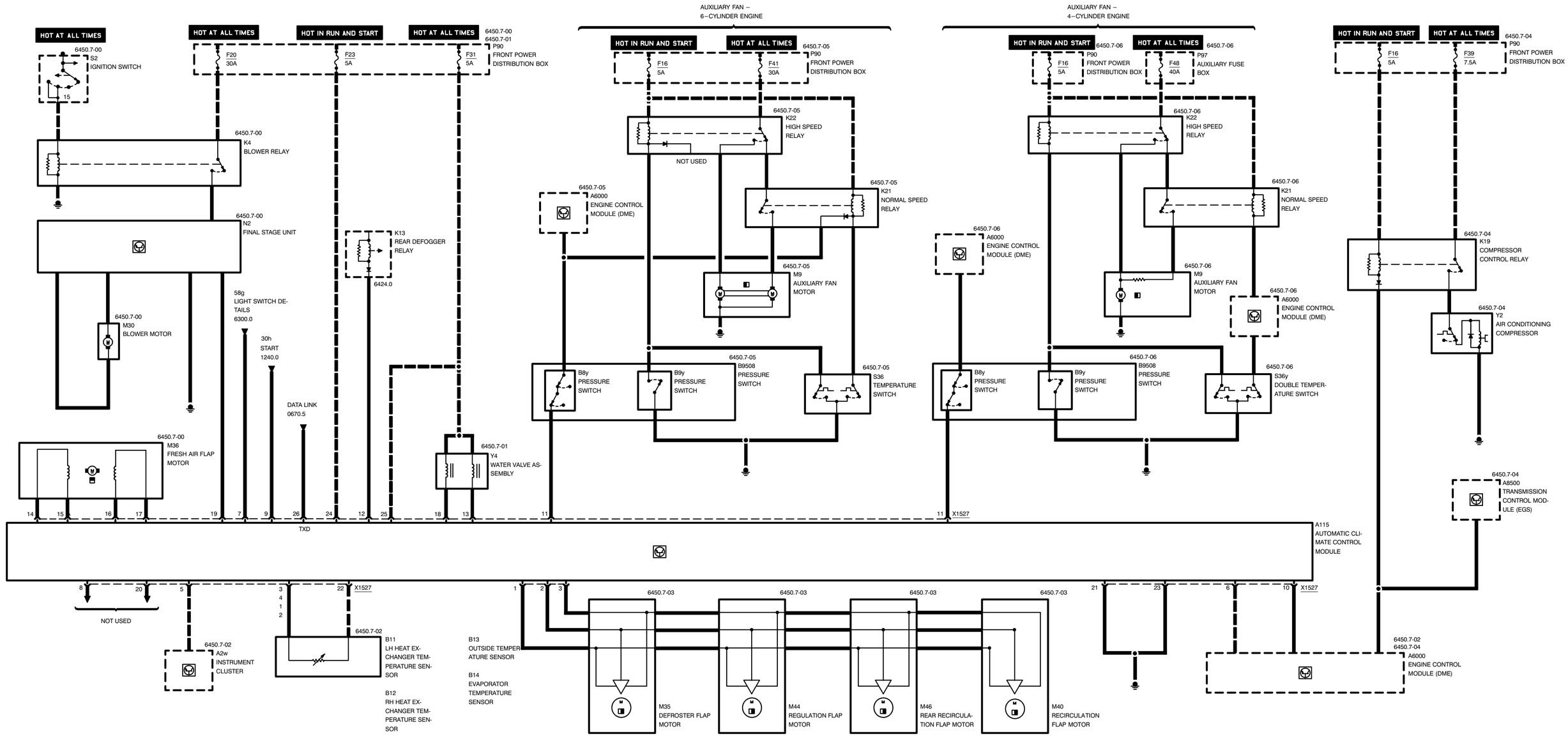
REAR WINDOW ANTENNA

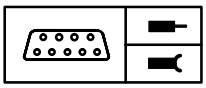


REAR WINDOW DEFOGGER/ANTENNA

3–ANTENNA–DIVERSITY




HOT AT ALL TIMES
6450.7-00
S2
IGNITION SWITCH
15
HOT AT ALL TIMES
HOT IN RUN AND START
HOT AT ALL TIMES
6450.7-00
6450.7-01
P90
FRONT POWER DISTRIBUTION BOX
F20 30A
F23 5A
F31 5A
6450.7-00
K4
BLOWER RELAY
6450.7-00
N2
FINAL STAGE UNIT
K13
REAR DEFOGGER RELAY
6424.0
6450.7-00
M30
BLOWER MOTOR
58g
LIGHT SWITCH DE-TAILS
6300.0
30h
START
1240.0
DATA LINK
0670.5
6450.7-00
M36
FRESH AIR FLAP MOTOR
6450.7-01
Y4
WATER VALVE AS-SEMBLY
14 15 16 17 19 7 9 26 24 12 25 18 13 11
TXD
AUXILIARY FAN – 6–CYLINDER ENGINE
HOT IN RUN AND START
HOT AT ALL TIMES
6450.7-05
P90
FRONT POWER DISTRIBUTION BOX
F16 5A
F41 30A
6450.7-05
K22
HIGH SPEED RELAY
NOT USED
6450.7-05
K21
NORMAL SPEED RELAY
6450.7-05
A6000
ENGINE CONTROL MODULE (DME)
6450.7-05
M9
AUXILIARY FAN MOTOR
B8y
PRESSURE SWITCH
B9y
PRESSURE SWITCH
6450.7-05
B9508
PRESSURE SWITCH
6450.7-05
S36
TEMPERATURE SWITCH
AUXILIARY FAN – 4–CYLINDER ENGINE
HOT IN RUN AND START
6450.7-06
HOT AT ALL TIMES
6450.7-06
P90
FRONT POWER DISTRIBUTION BOX
F16 5A
F48 40A
P97
AUXILIARY FUSE BOX
6450.7-06
K22
HIGH SPEED RELAY
6450.7-06
K21
NORMAL SPEED RELAY
6450.7-06
A6000
ENGINE CONTROL MODULE (DME)
6450.7-06
M9
AUXILIARY FAN MOTOR
6450.7-06
A6000
ENGINE CONTROL MODULE (DME)
B8y
PRESSURE SWITCH
B9y
PRESSURE SWITCH
6450.7-06
B9508
PRESSURE SWITCH
6450.7-06
S36y
DOUBLE TEMPER-ATURE SWITCH
11 X1527
HOT IN RUN AND START
HOT AT ALL TIMES
6450.7-04
P90
FRONT POWER DISTRIBUTION BOX
F16 5A
F39 7.5A
6450.7-04
K19
COMPRESSOR CONTROL RELAY
6450.7-04
Y2
AIR CONDITIONING COMPRESSOR
6450.7-04
A8500
TRANSMISSION CONTROL MOD-ULE (EGS)
A115
AUTOMATIC CLI-MATE CONTROL MODULE
8 20 5 3 4 1 2 22 X1527
NOT USED
6450.7-02
A2w
INSTRUMENT CLUSTER
6450.7-02
B11
LH HEAT EX-CHANGER TEM-PERATURE SEN-SOR
B12
RH HEAT EX-CHANGER TEM-PERATURE SEN-SOR
B13
OUTSIDE TEMPER-ATURE SENSOR
B14
EVAPORATOR TEMPERATURE SENSOR
1 2 3
6450.7-03
6450.7-03
6450.7-03
6450.7-03
M35
DEFROSTER FLAP MOTOR
M44
REGULATION FLAP MOTOR
M46
REAR RECIRCULA-TION FLAP MOTOR
M40
RECIRCULATION FLAP MOTOR
21 23 6 10 X1527
6450.7-02
6450.7-04
A6000
ENGINE CONTROL MODULE (DME)



Pin Assignments

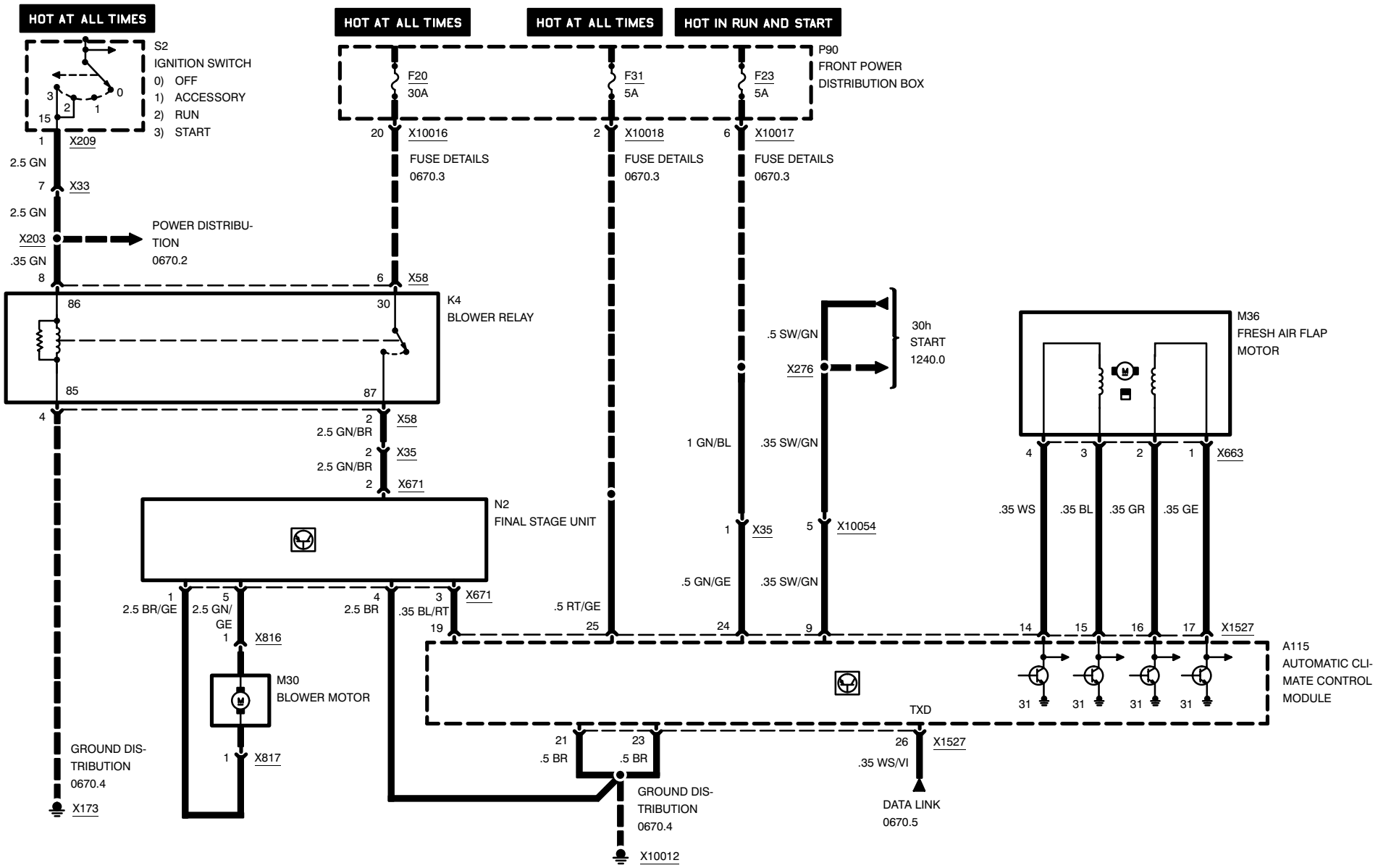
X1527

Pin	Type	Description/Function	Connection
1	E	Outside temperature	Outside temperature sensor
2	E	Evaporator temperature	Evaporator temperature sensor
3	E	Heater temperature, left	Left heat exchanger temperature sensor
4	E	Heater temperature, right	Right heat exchanger temperature sensor
5	E	Vehicle speed signal (Speedometer output signal)	Instrument cluster
6	E	RPM speed signal TD	Engine control module (DME)
7	E	Illumination input	Illumination
8	A	Output signal	On-board computer
9	E	Terminal 50	Starter
10	A	RPM speed increase	Engine control module (DME)
11	A	A/C compressor activation	Pressure switch
12	A	Rear window signal	Rear window
13	A	Water valve activation, right	Right water valve
14	A	Fresh air flap motor activation	Fresh air flap motor
15	A	Fresh air flap motor activation	Fresh air flap motor
16	A	Fresh air flap motor activation	Fresh air flap motor
17	A	Fresh air flap motor activation	Fresh air flap motor
18	A	Water valve activation, left	Left water valve
19	A	A/C fan activation	A/C fan final stage
20	E	Independent ventilation	Relay box
21	M	Ground	Control panel
22	M	Ground	Mixing actuator
23	M	Ground	Control panel
24	E	Terminal 15	Fuse
25	E	Terminal 30	Fuse
26	E/A	Diagnostic data link	Data link connector

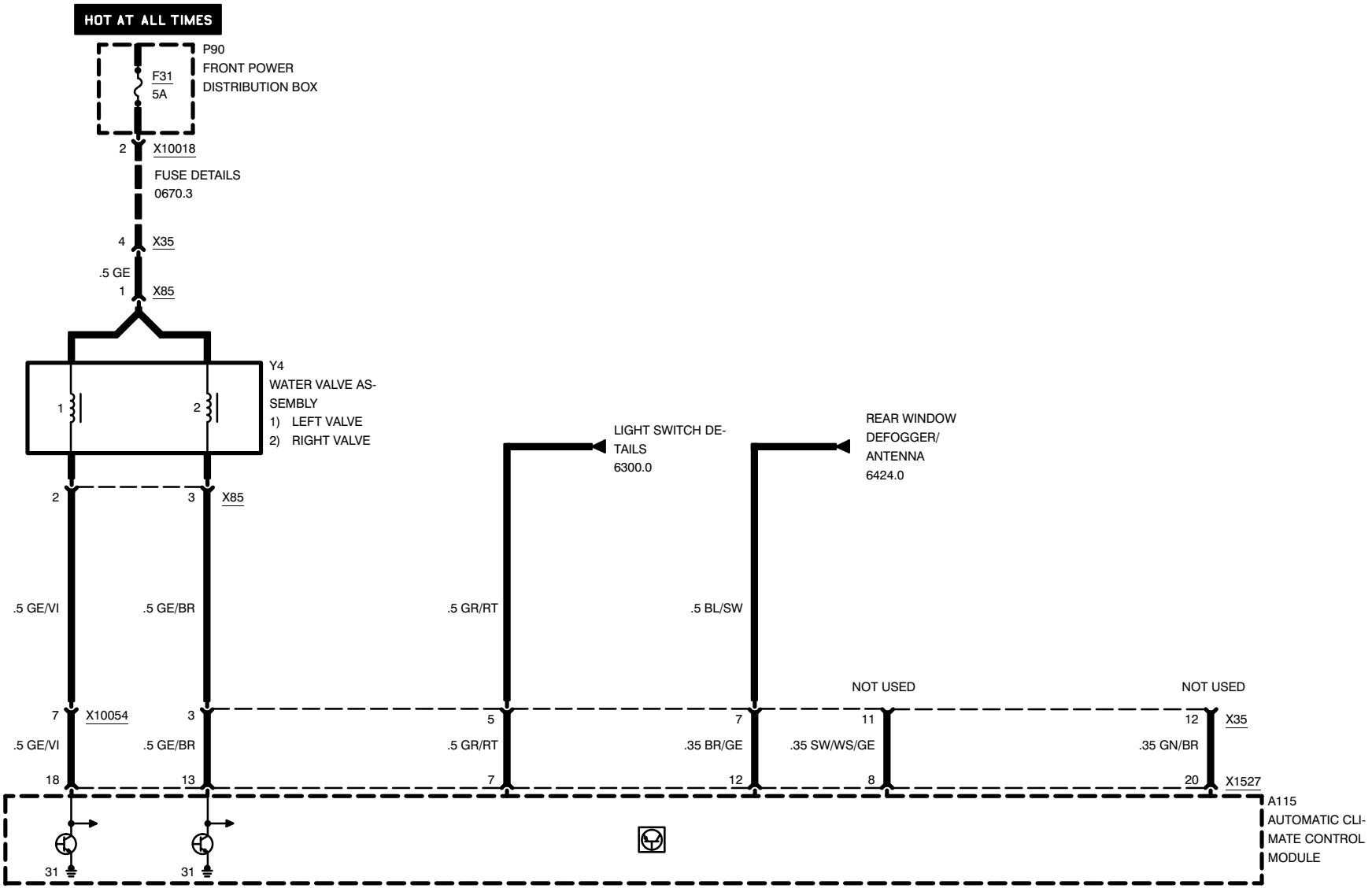
E = Input, A = Output, M = Ground

INTEGRATED CLIMATE REGULATION (IHKA E36)

POWER, AIR FLOW CONTROL

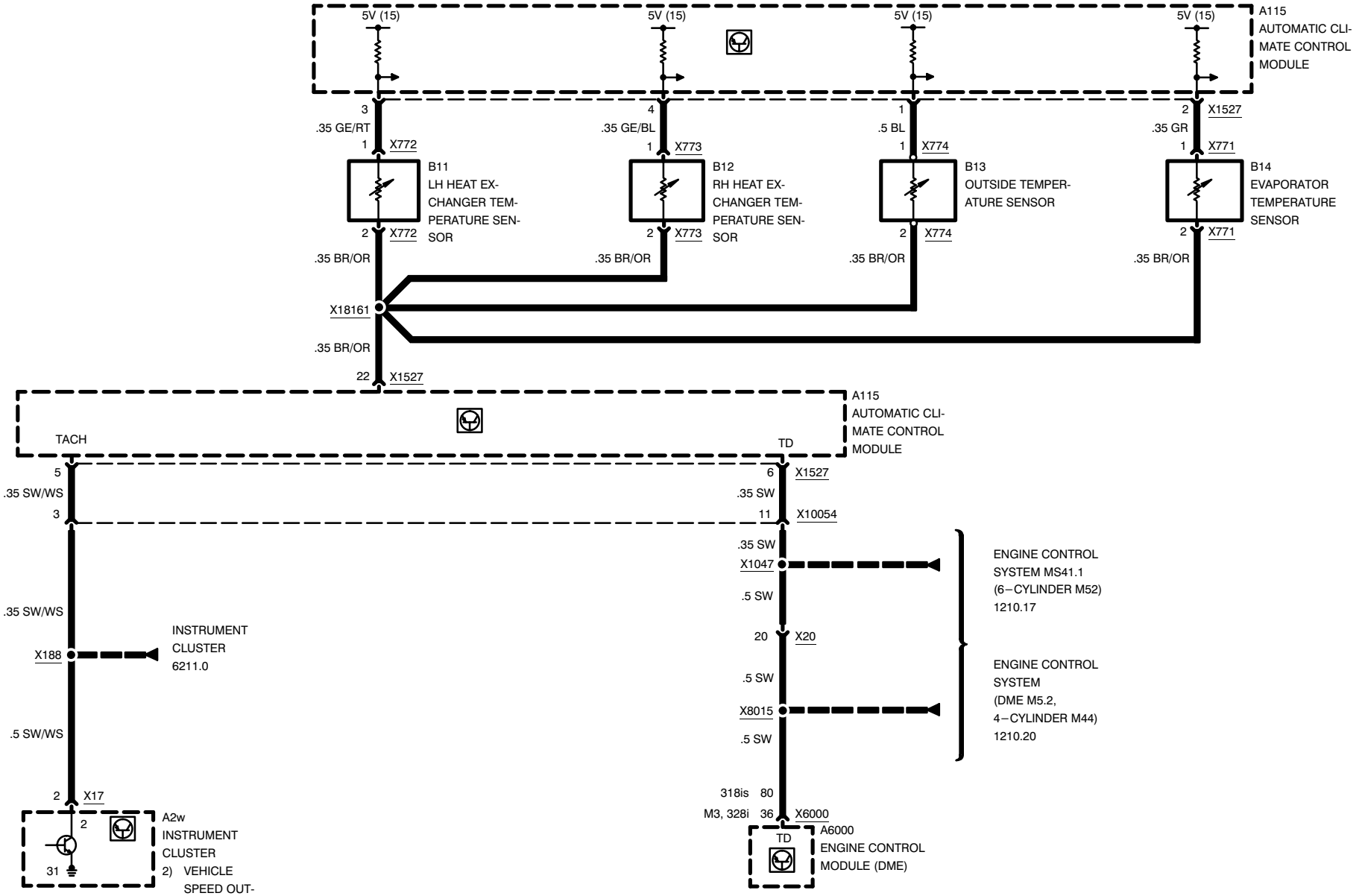


INTEGRATED CLIMATE REGULATION (IHKA E36)



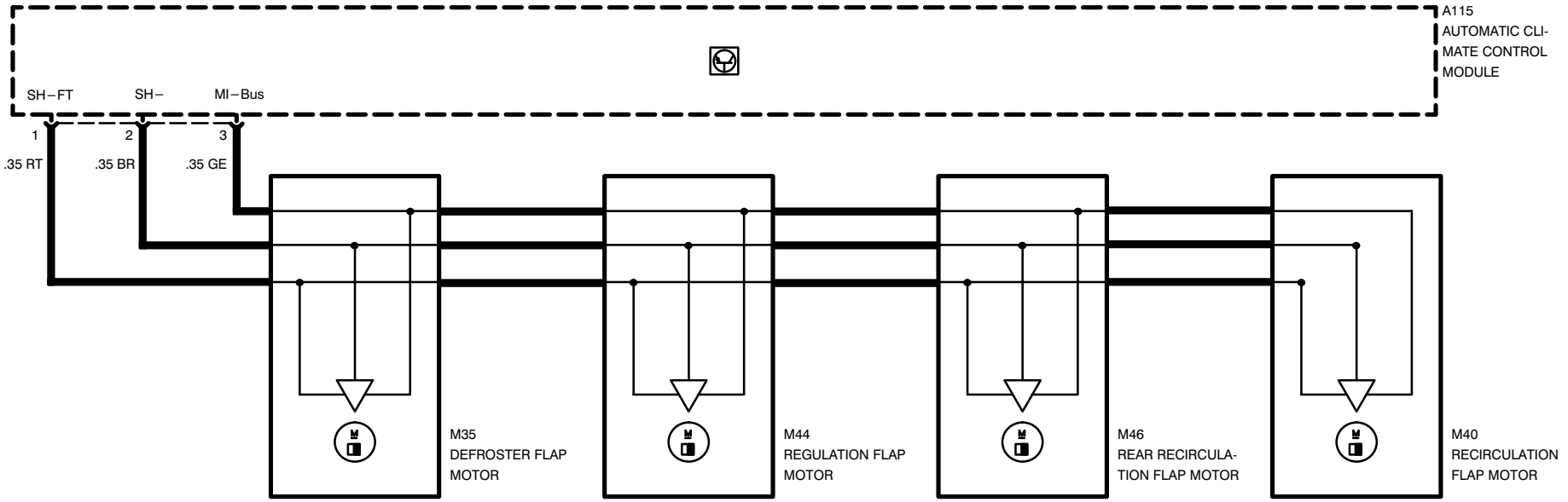
INTEGRATED CLIMATE REGULATION (IHKA E36)

TEMPERATURE CONTROL



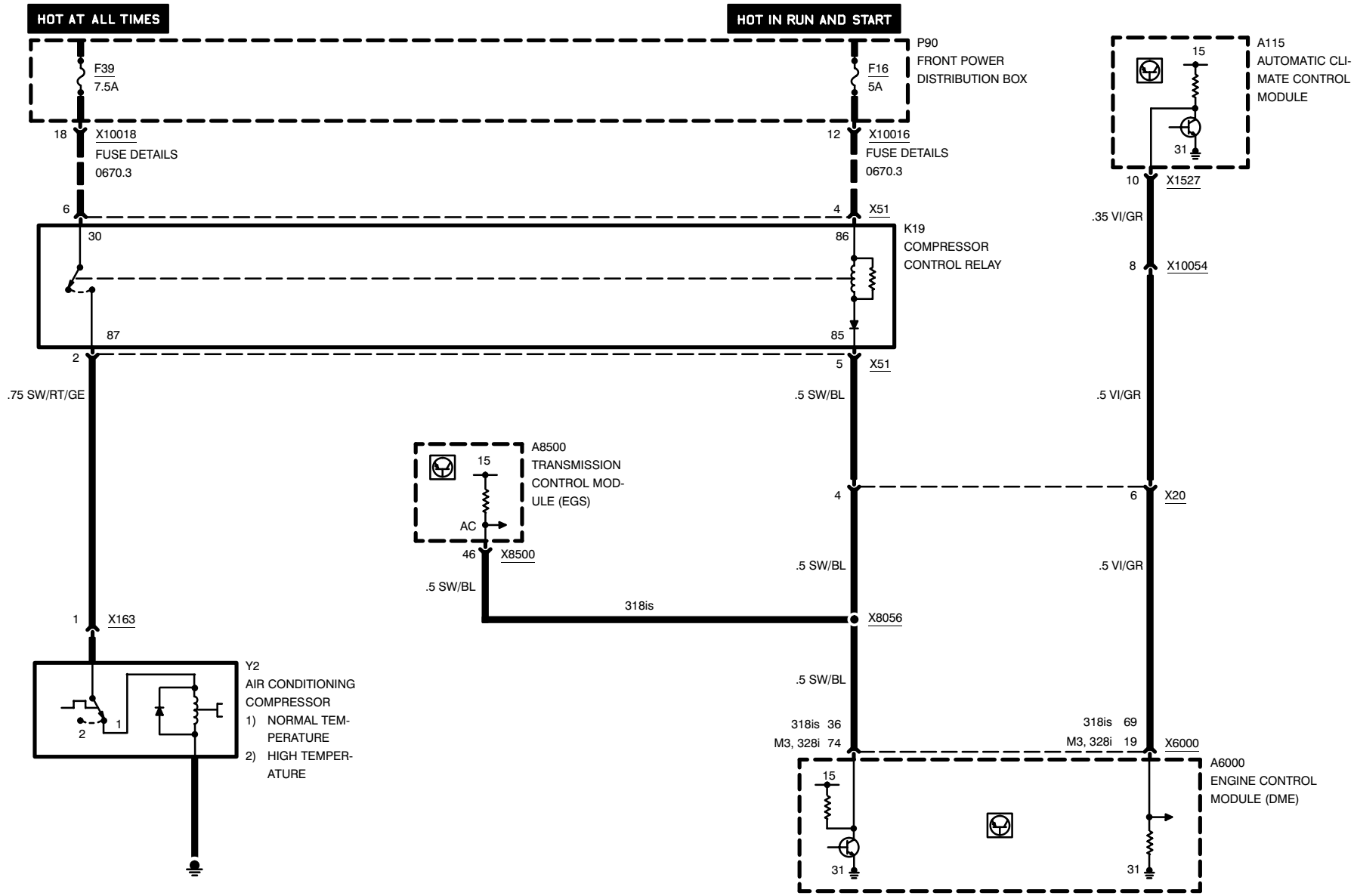
INTEGRATED CLIMATE REGULATION (IHKA E36)

AIR DELIVERY



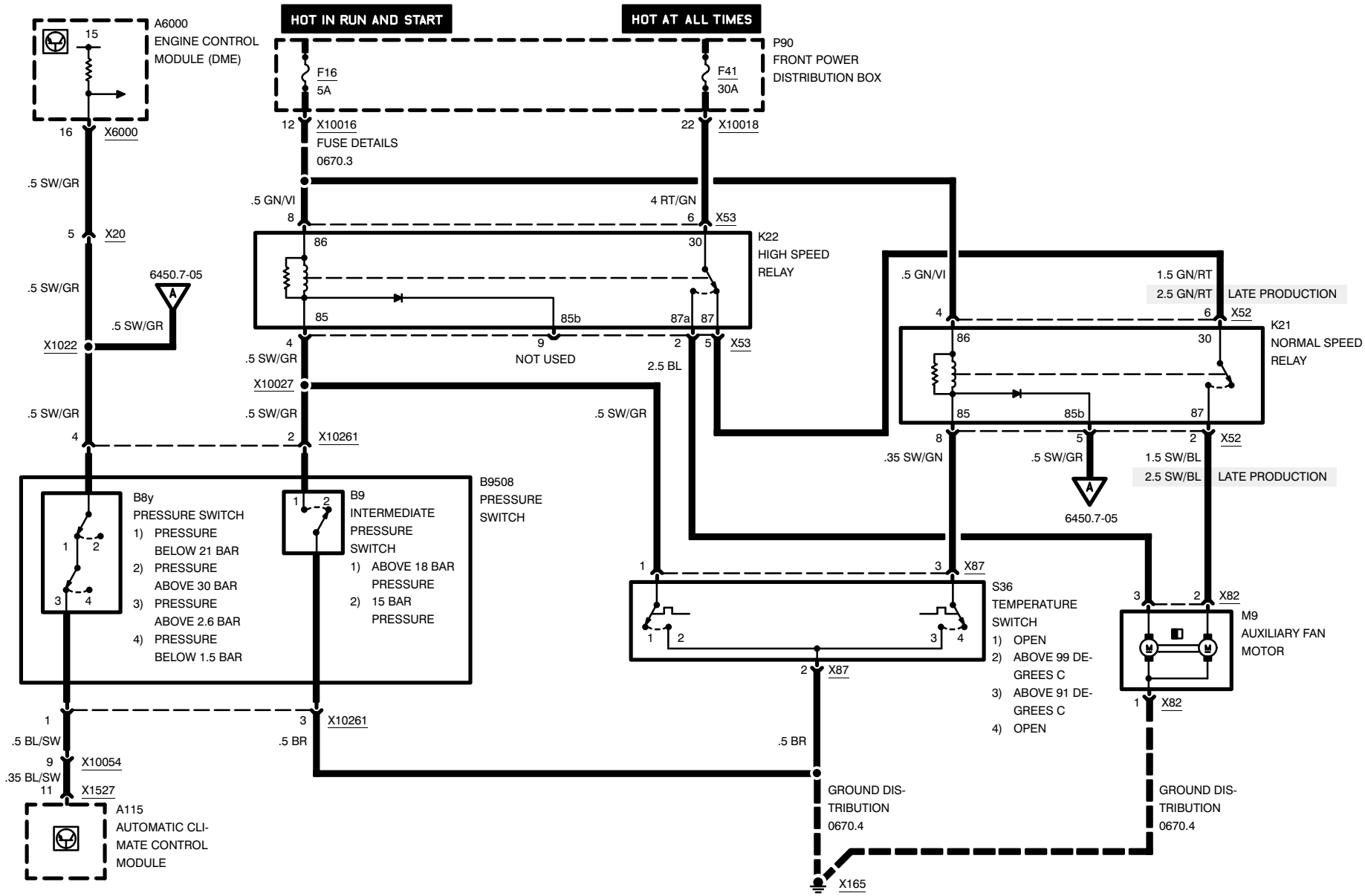
INTEGRATED CLIMATE REGULATION (IHKA E36)

COMPRESSOR CONTROLS



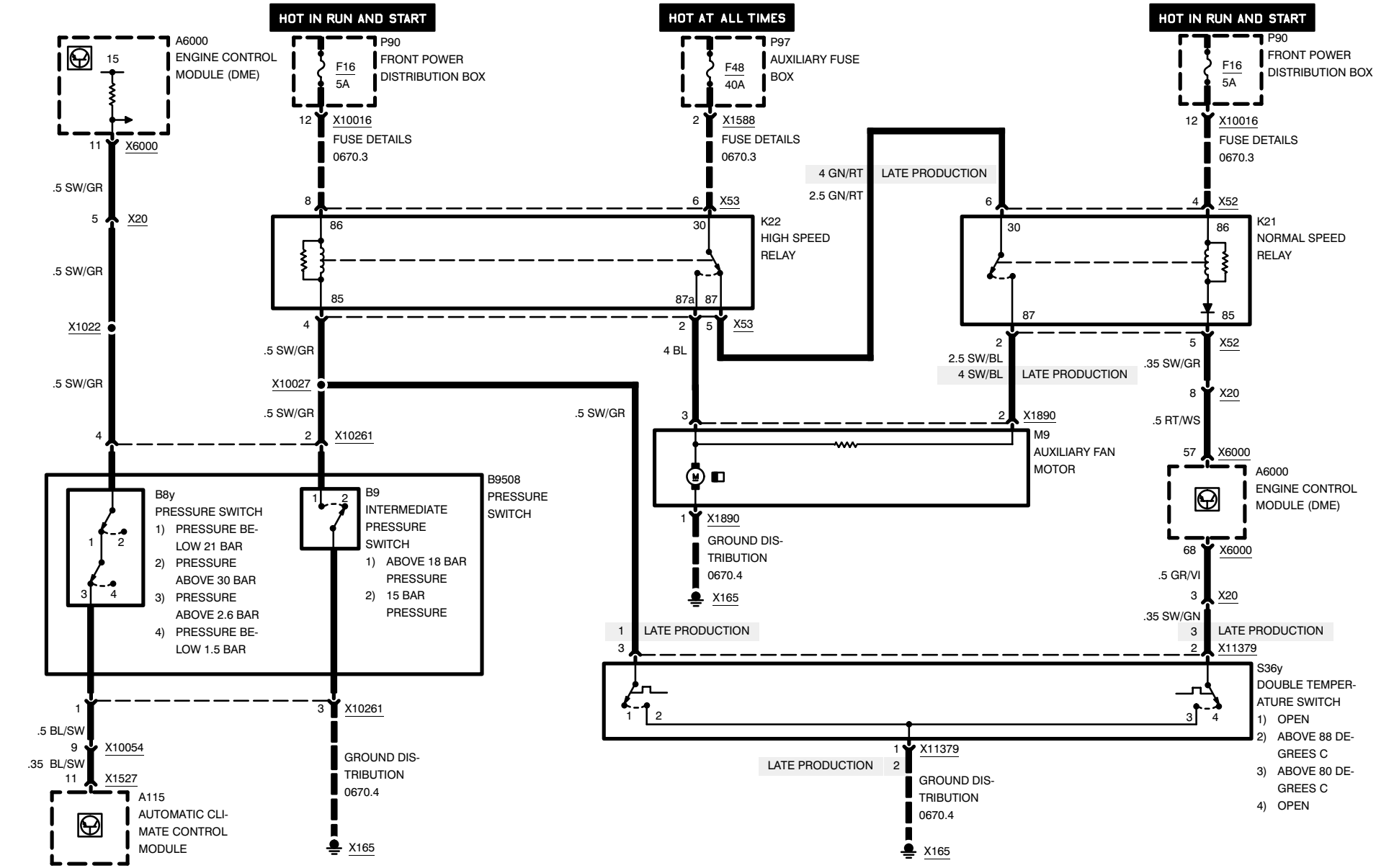
INTEGRATED CLIMATE REGULATION (IHKA E36)

AUXILIARY FAN – 6–CYLINDER ENGINE



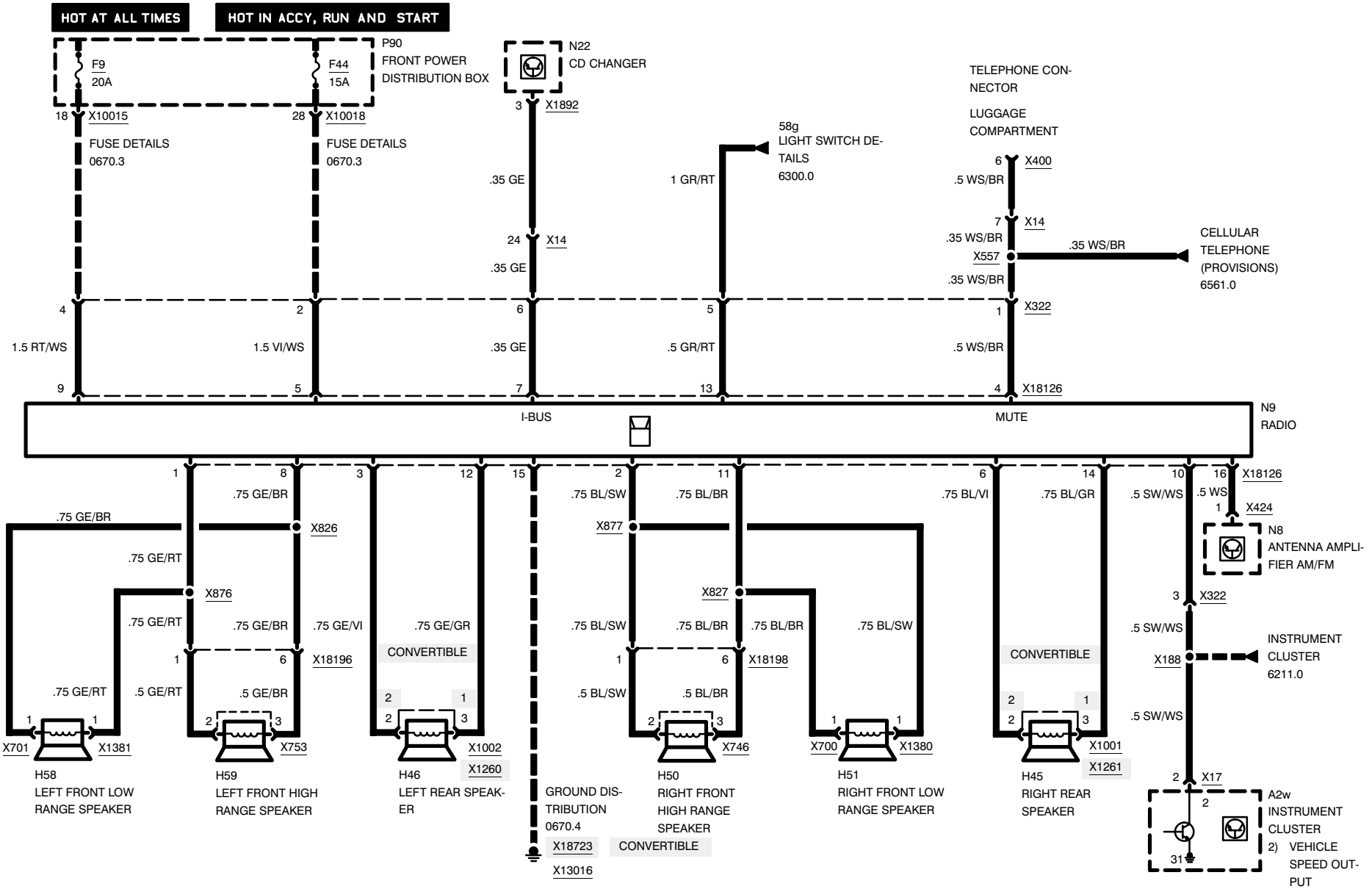
INTEGRATED CLIMATE REGULATION (IHKA E36)

AUXILIARY FAN – 4–CYLINDER ENGINE



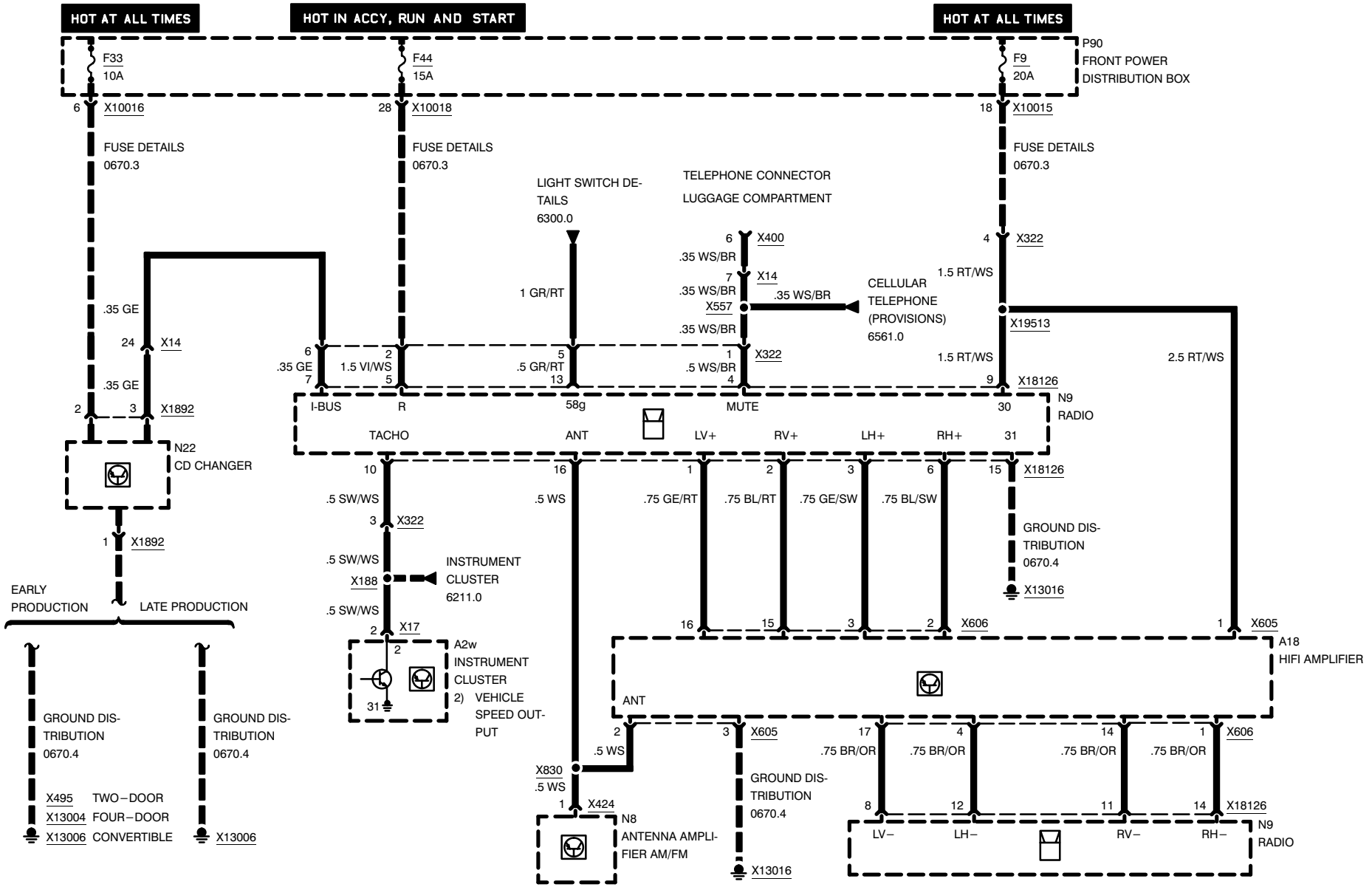
RADIO/STEREO

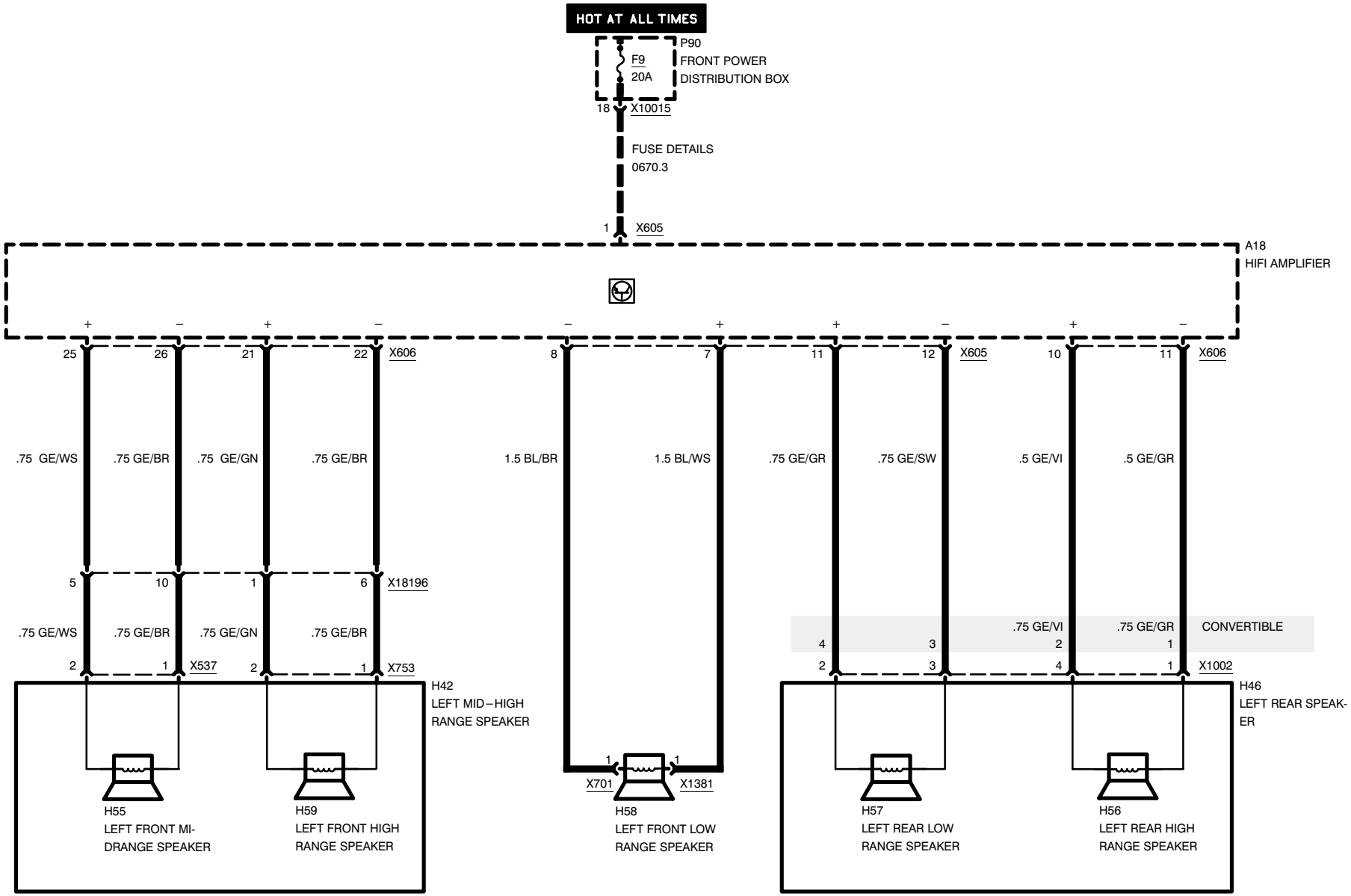
STEREO, 6–SPEAKER SYSTEM

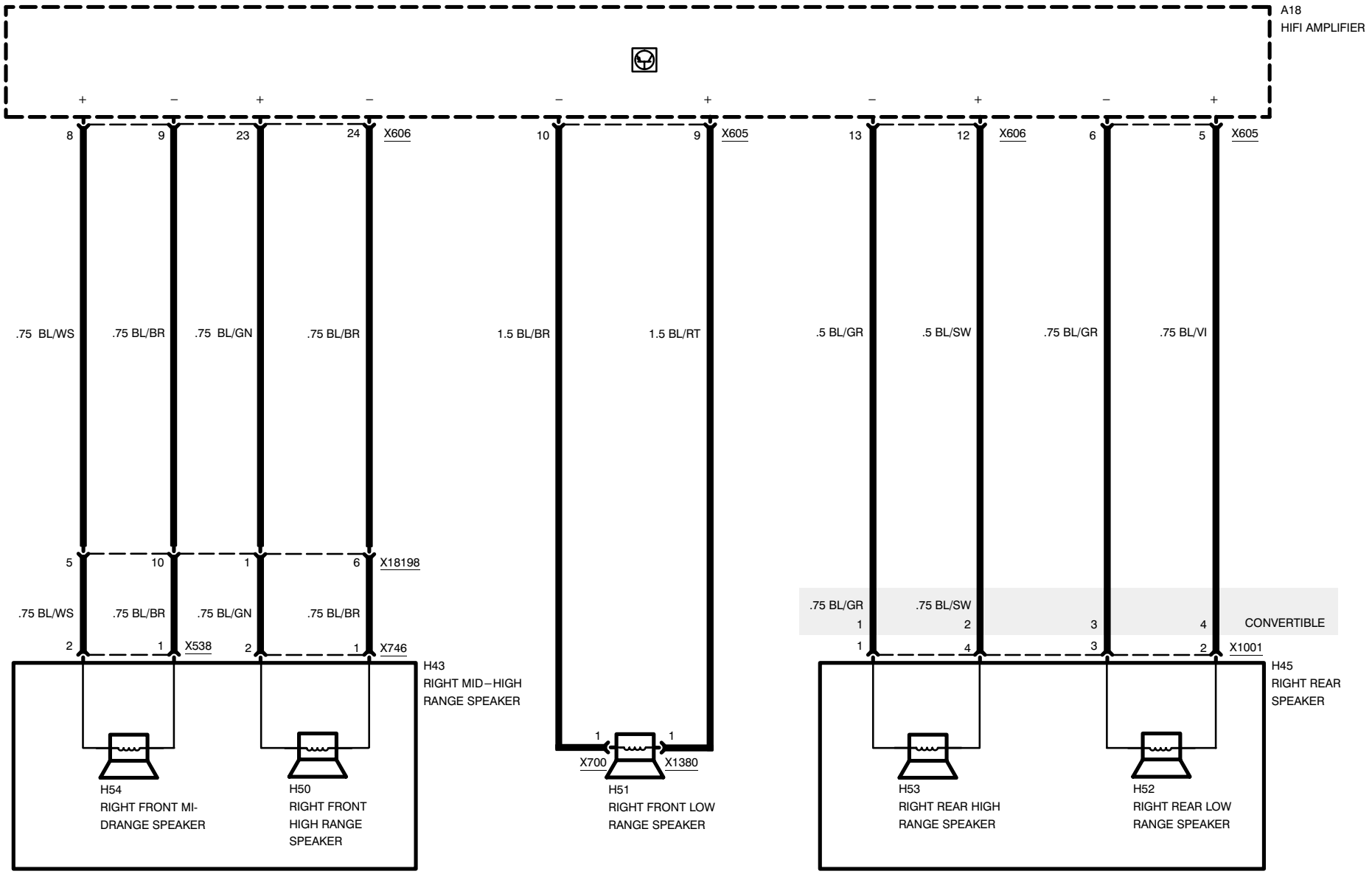


RADIO/HIFI

HIFI, 10−SPEAKER SYSTEM

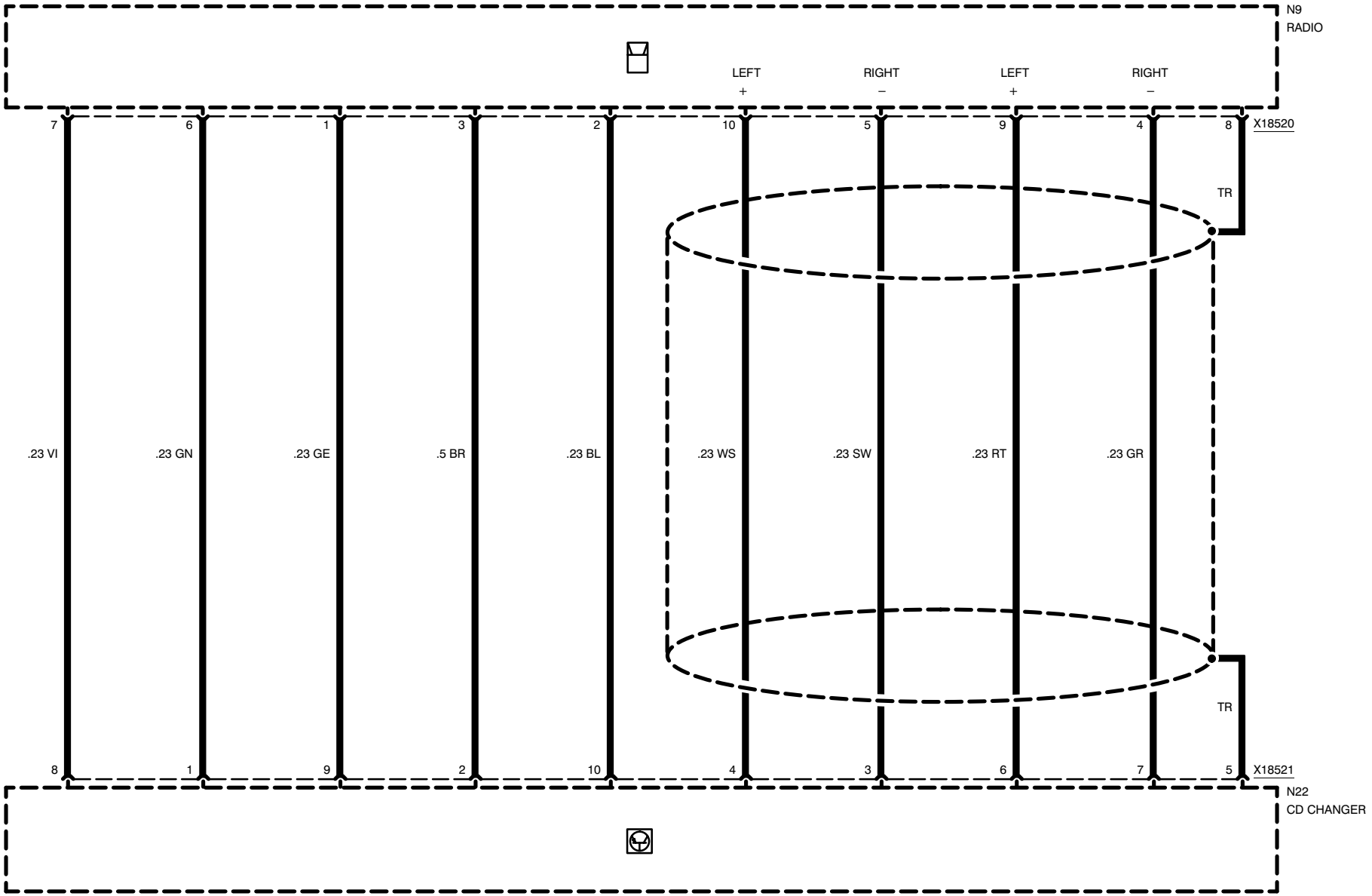


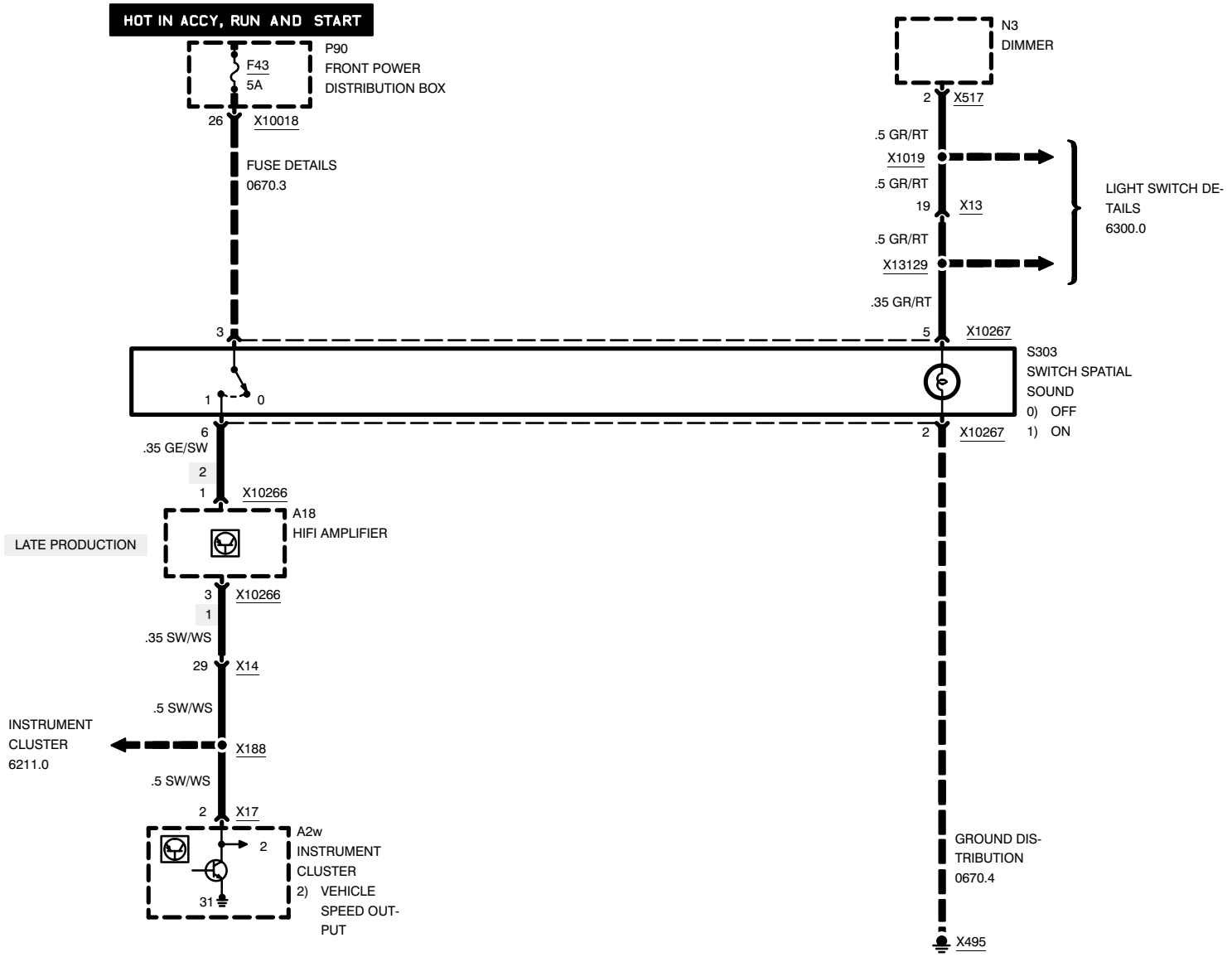

HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F9
20A
18 X10015
FUSE DETAILS
0670.3
1 X605
A18
HIFI AMPLIFIER
+ – + – – + + – + –
25 26 21 22 X606
8 7 11 12 X605
10 11 X606
.75 GE/WS
.75 GE/BR
.75 GE/GN
.75 GE/BR
1.5 BL/BR
1.5 BL/WS
.75 GE/GR
.75 GE/SW
.5 GE/VI
.5 GE/GR
5 10 1 6 X18196
.75 GE/WS
.75 GE/BR
.75 GE/GN
.75 GE/BR
.75 GE/VI
.75 GE/GR
CONVERTIBLE
4 3 2 1
2 1 X537
2 1 X753
2 3 4 1 X1002
H42
LEFT MID–HIGH RANGE SPEAKER
H46
LEFT REAR SPEAKER
1 1
X701 X1381
H55
LEFT FRONT MI-DRANGE SPEAKER
H59
LEFT FRONT HIGH RANGE SPEAKER
H58
LEFT FRONT LOW RANGE SPEAKER
H57
LEFT REAR LOW RANGE SPEAKER
H56
LEFT REAR HIGH RANGE SPEAKER


A18
HIFI AMPLIFIER
+ – + – – + – + – +
8 9 23 24 X606
10 9 X605
13 12 X606
6 5 X605
.75 BL/WS
.75 BL/BR
.75 BL/GN
.75 BL/BR
1.5 BL/BR
1.5 BL/RT
.5 BL/GR
.5 BL/SW
.75 BL/GR
.75 BL/VI
5 10 1 6 X18198
.75 BL/WS
.75 BL/BR
.75 BL/GN
.75 BL/BR
.75 BL/GR
.75 BL/SW
2 1 X538
2 1 X746
1 2 3 4 CONVERTIBLE
1 4 3 2 X1001
H43
RIGHT MID–HIGH
RANGE SPEAKER
H45
RIGHT REAR
SPEAKER
1 1
X700 X1380
H54
RIGHT FRONT MI-
DRANGE SPEAKER
H50
RIGHT FRONT
HIGH RANGE
SPEAKER
H51
RIGHT FRONT LOW
RANGE SPEAKER
H53
RIGHT REAR HIGH
RANGE SPEAKER
H52
RIGHT REAR LOW
RANGE SPEAKER

RADIO/HIFI

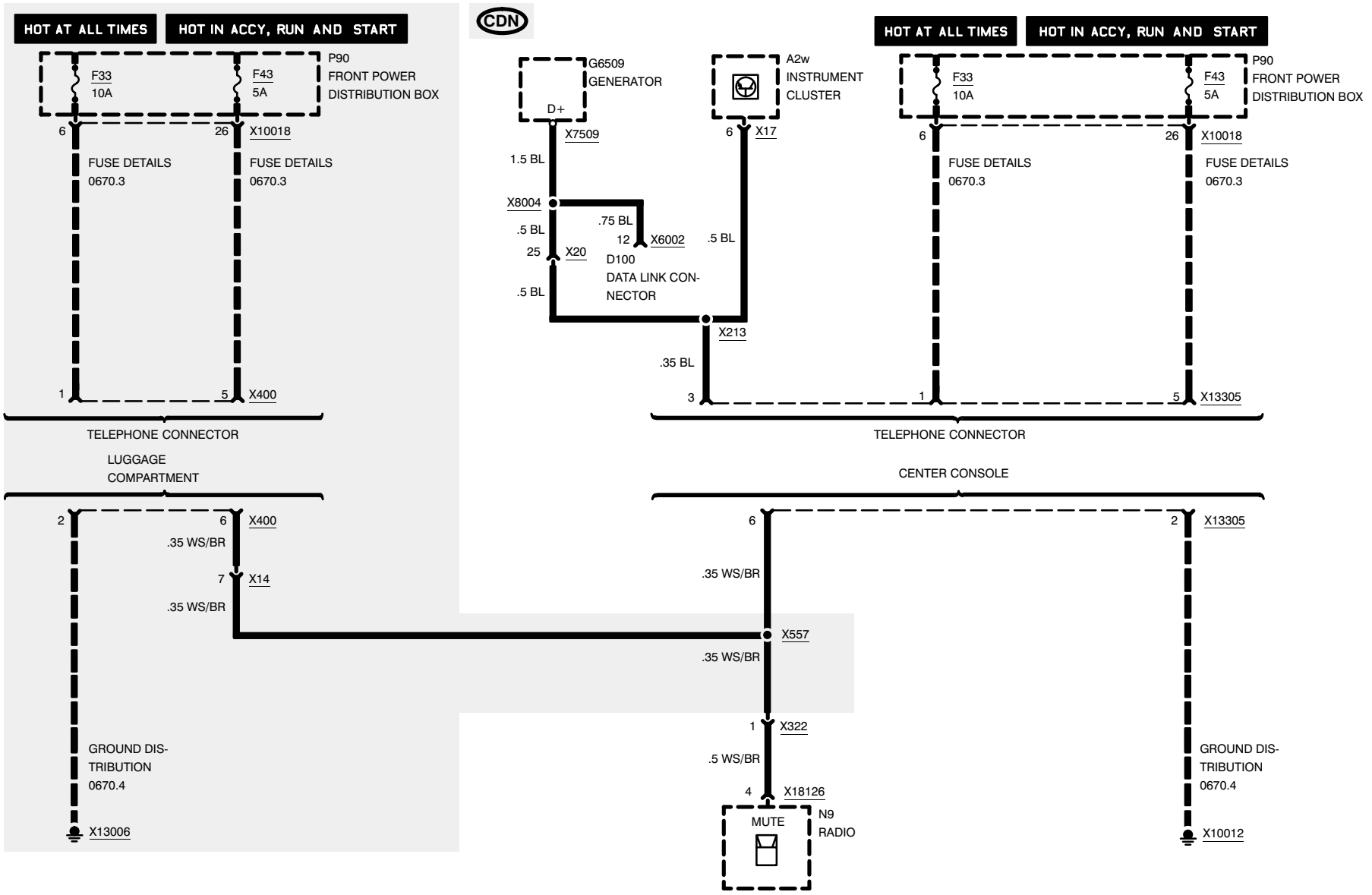
HIFI, 10–SPEAKER SYSTEM



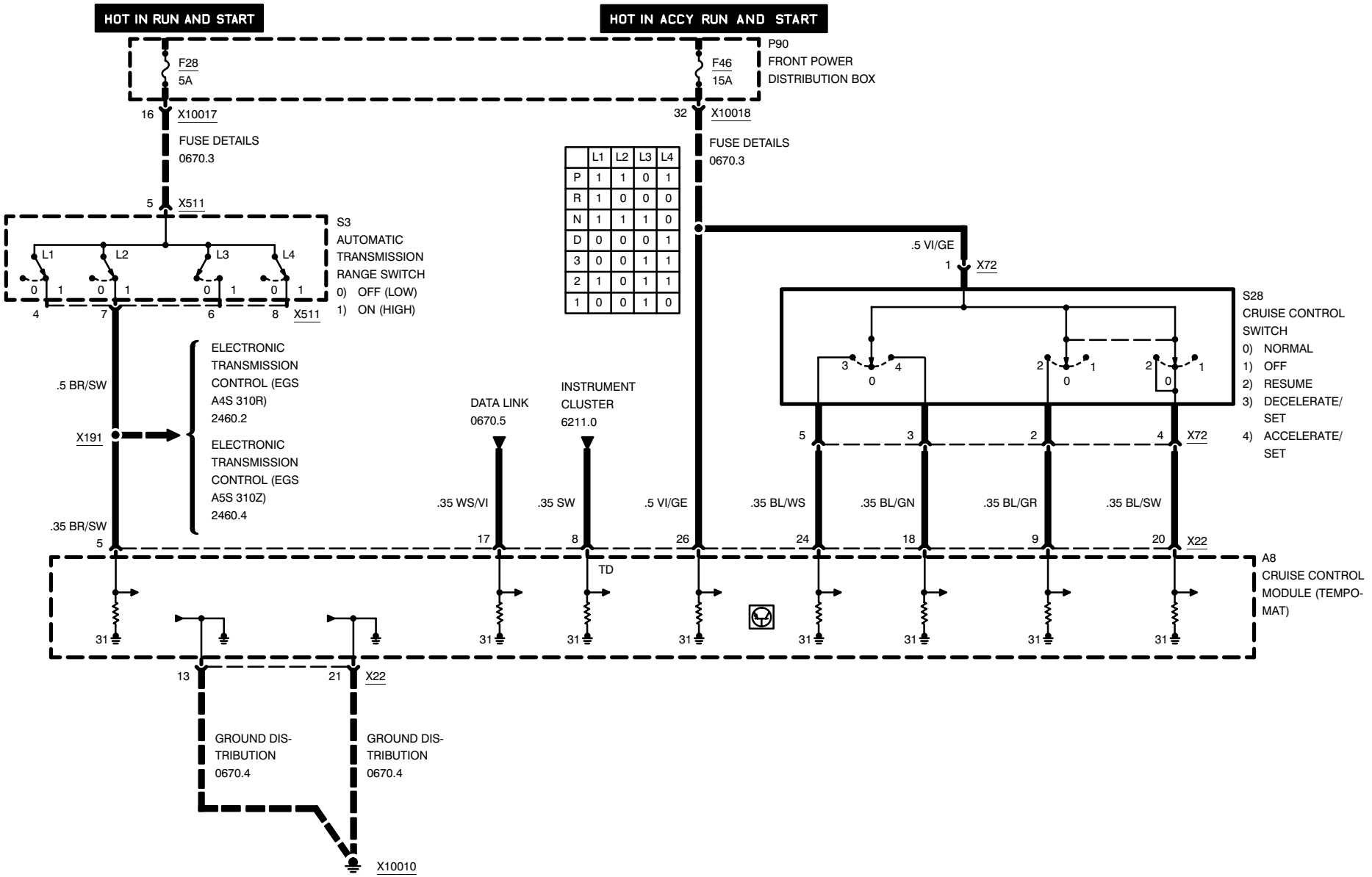

HOT IN ACCY, RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F43
5A
26
X10018
FUSE DETAILS
0670.3
3
1
0
6
.35 GE/SW
2
1
X10266
A18
HIFI AMPLIFIER
LATE PRODUCTION
3
X10266
1
.35 SW/WS
29
X14
.5 SW/WS
INSTRUMENT
CLUSTER
6211.0
X188
.5 SW/WS
2
X17
A2w
INSTRUMENT
CLUSTER
2) VEHICLE
SPEED OUT-
PUT
2
31
N3
DIMMER
2
X517
.5 GR/RT
X1019
.5 GR/RT
19
X13
.5 GR/RT
X13129
LIGHT SWITCH DE-
TAILS
6300.0
.35 GR/RT
5
X10267
S303
SWITCH SPATIAL
SOUND
0) OFF
1) ON
2
X10267
GROUND DIS-
TRIBUTION
0670.4
X495

CELLULAR TELEPHONE (PROVISIONS)

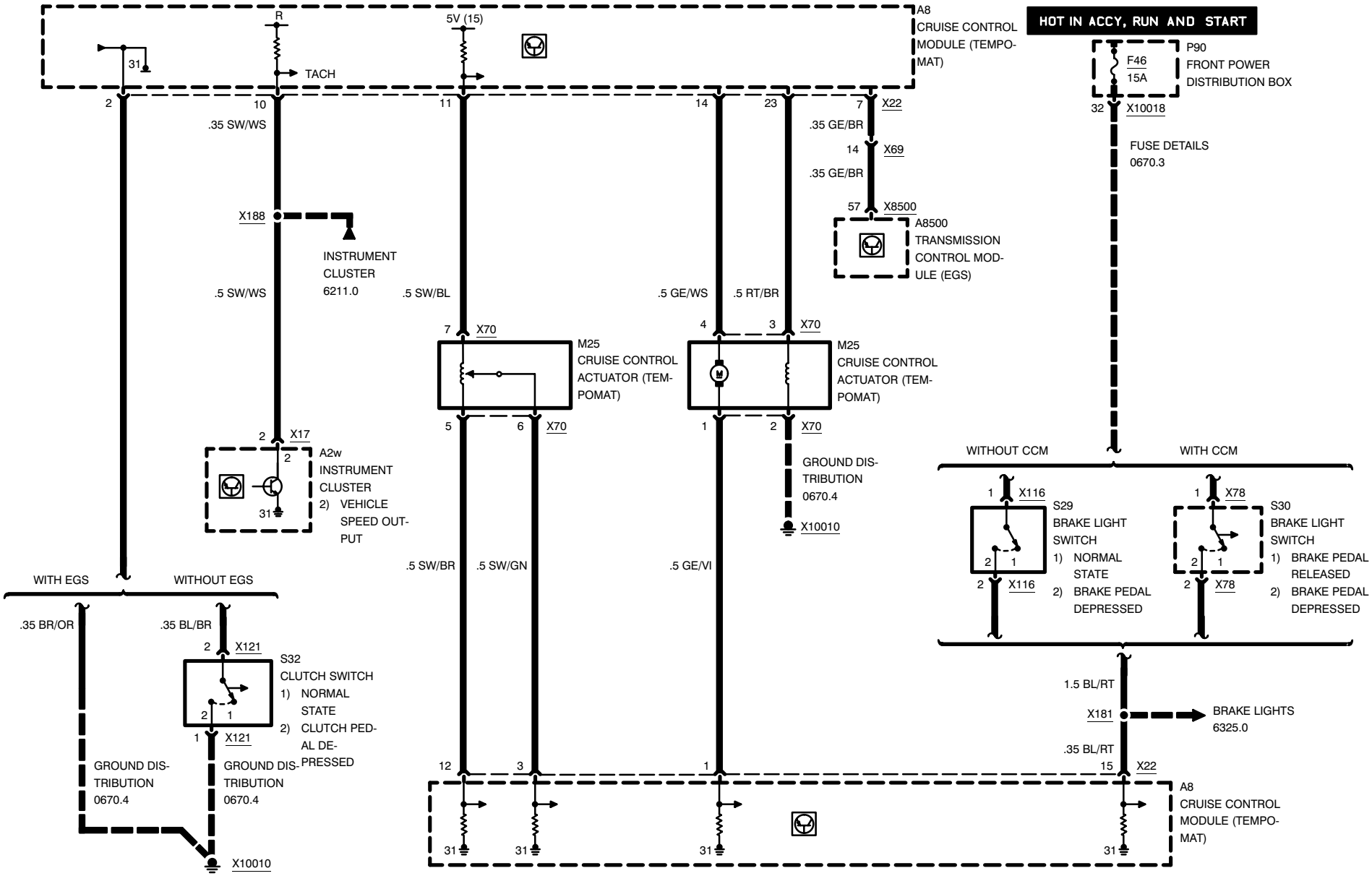
PROVISIONS



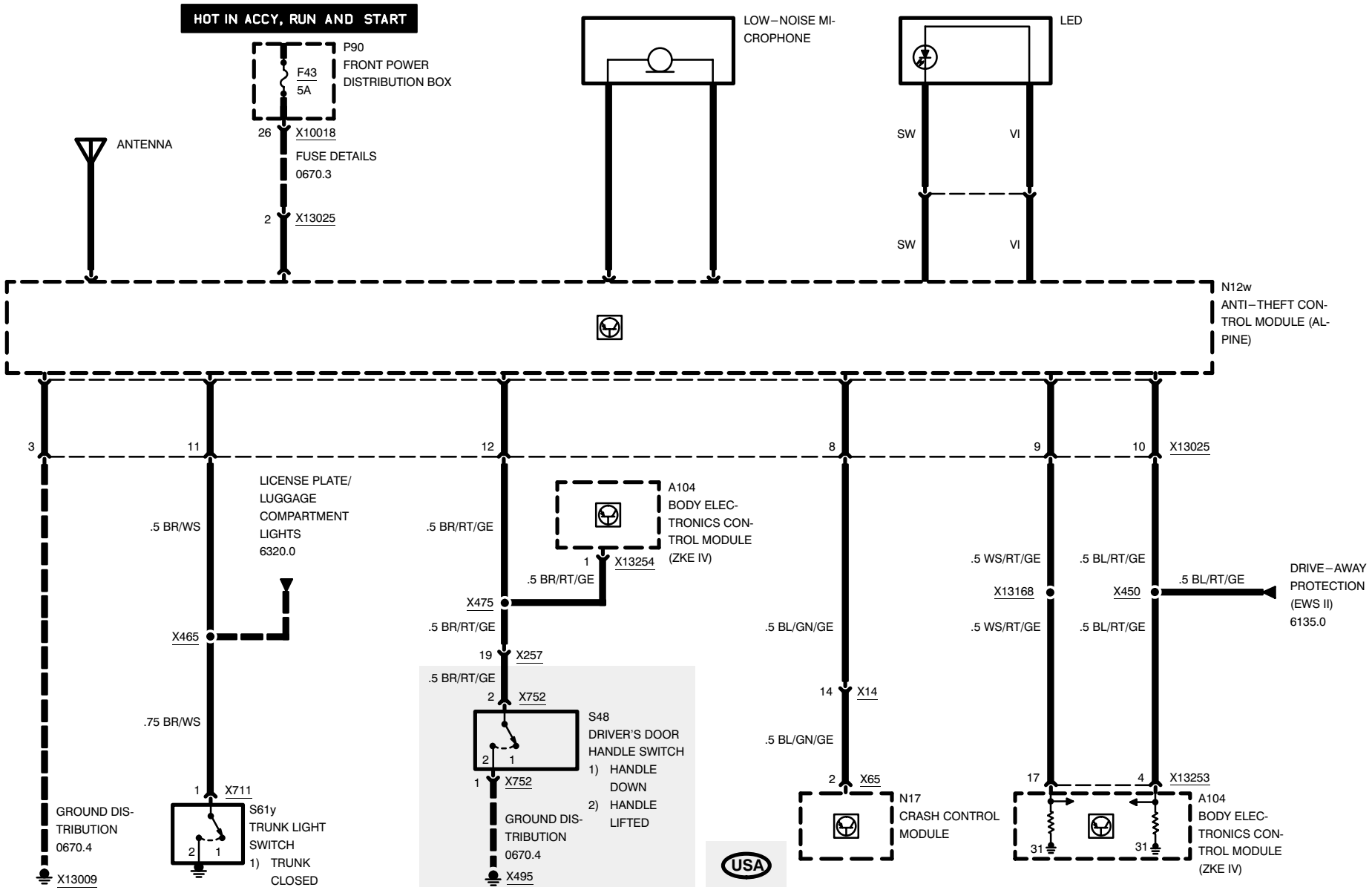
CRUISE CONTROL (TEMPOMAT)



CRUISE CONTROL (TEMPOMAT)

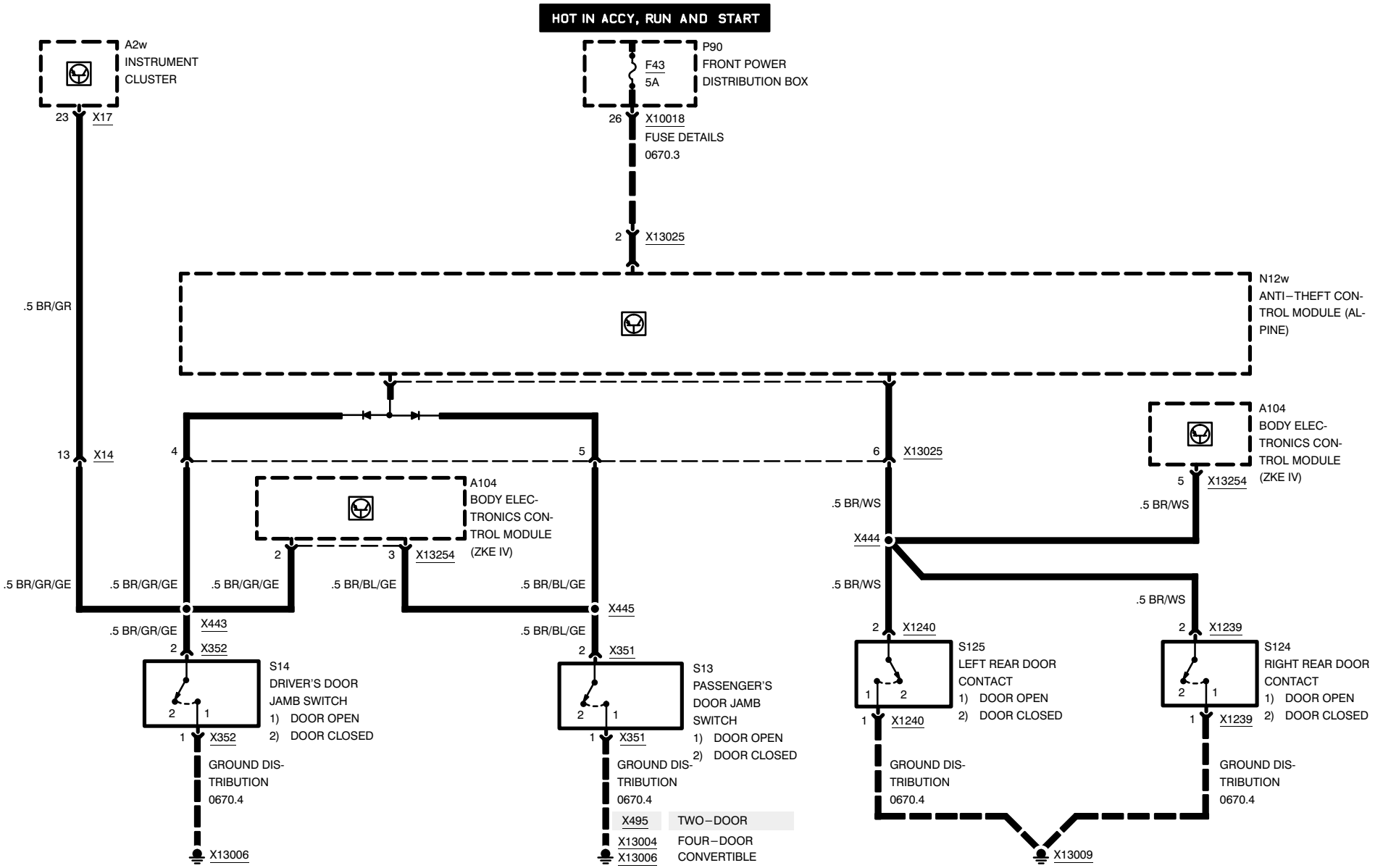


ANTI–THEFT SYSTEM (ALPINE)

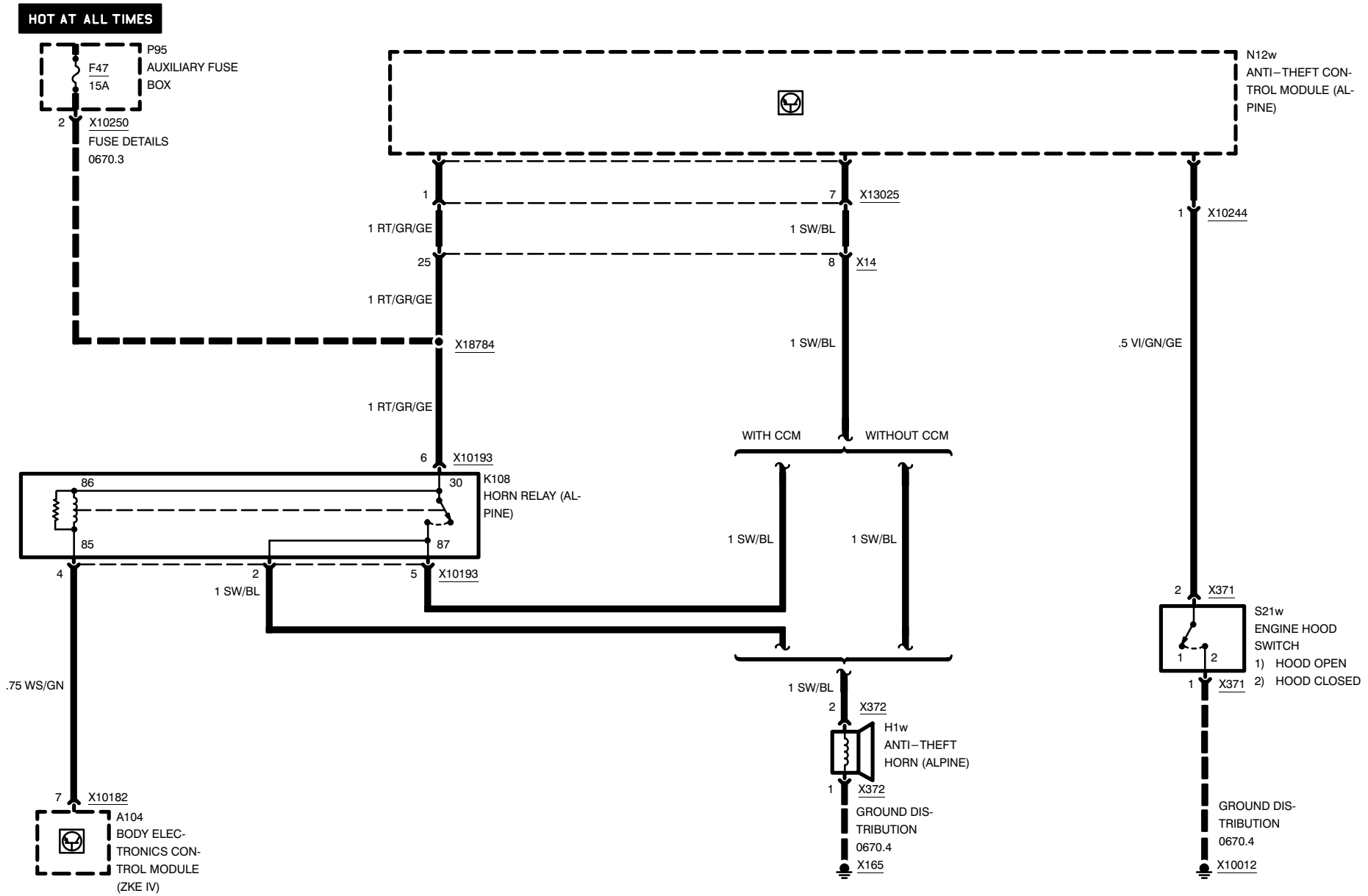


ANTI–THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

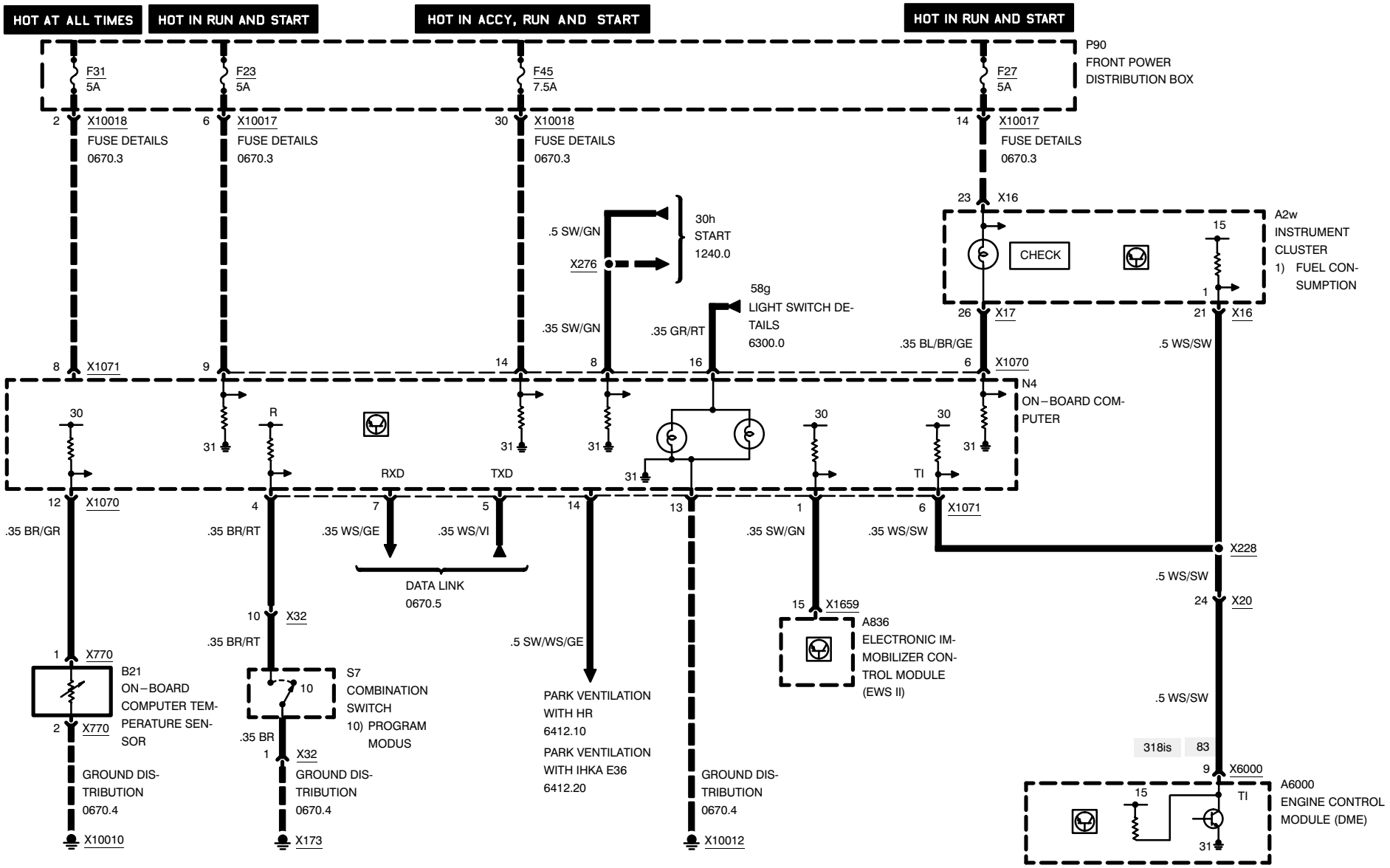


ANTI–THEFT SYSTEM (ALPINE)



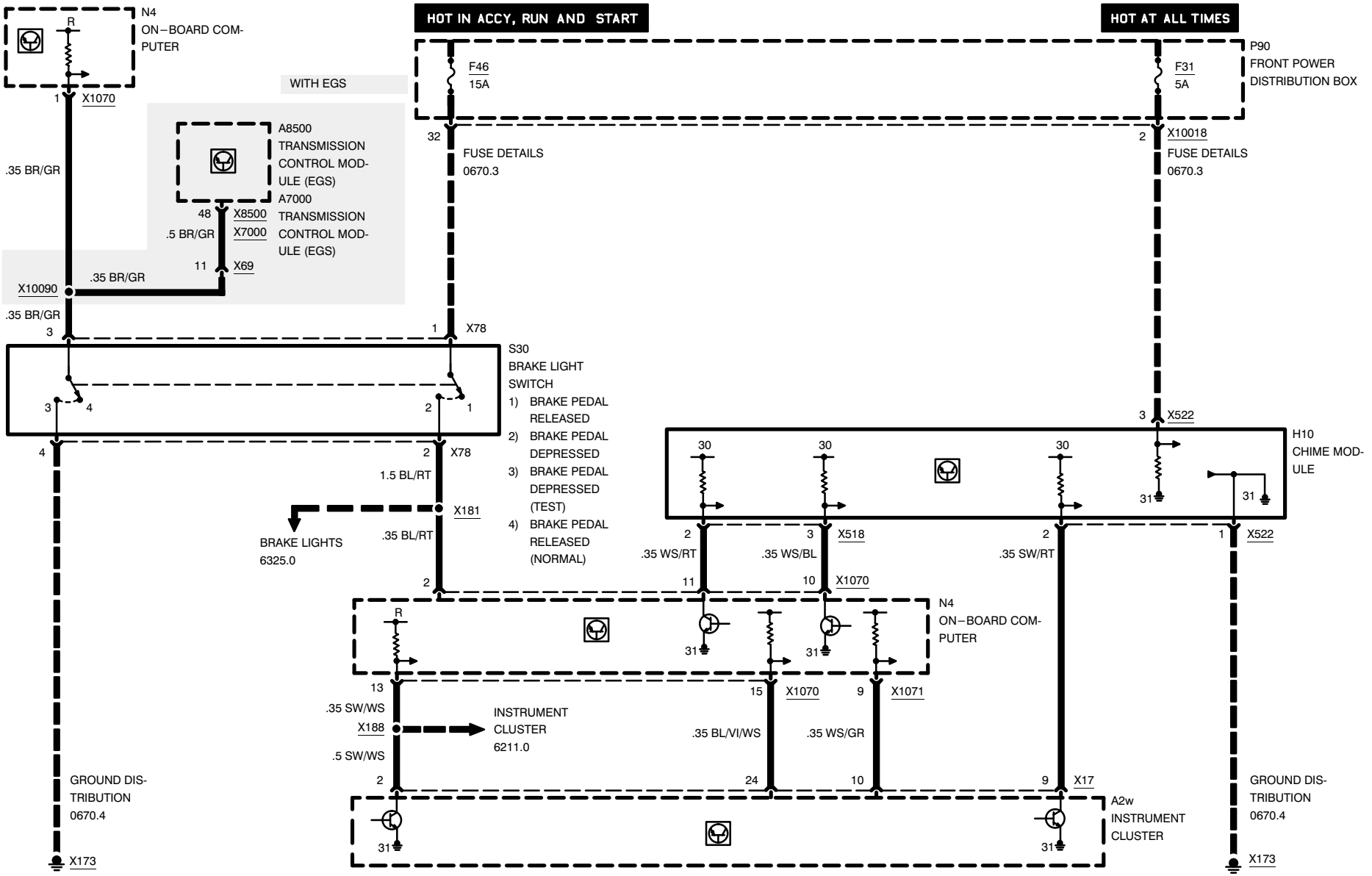
ON–BOARD COMPUTER (BC V)

POWER



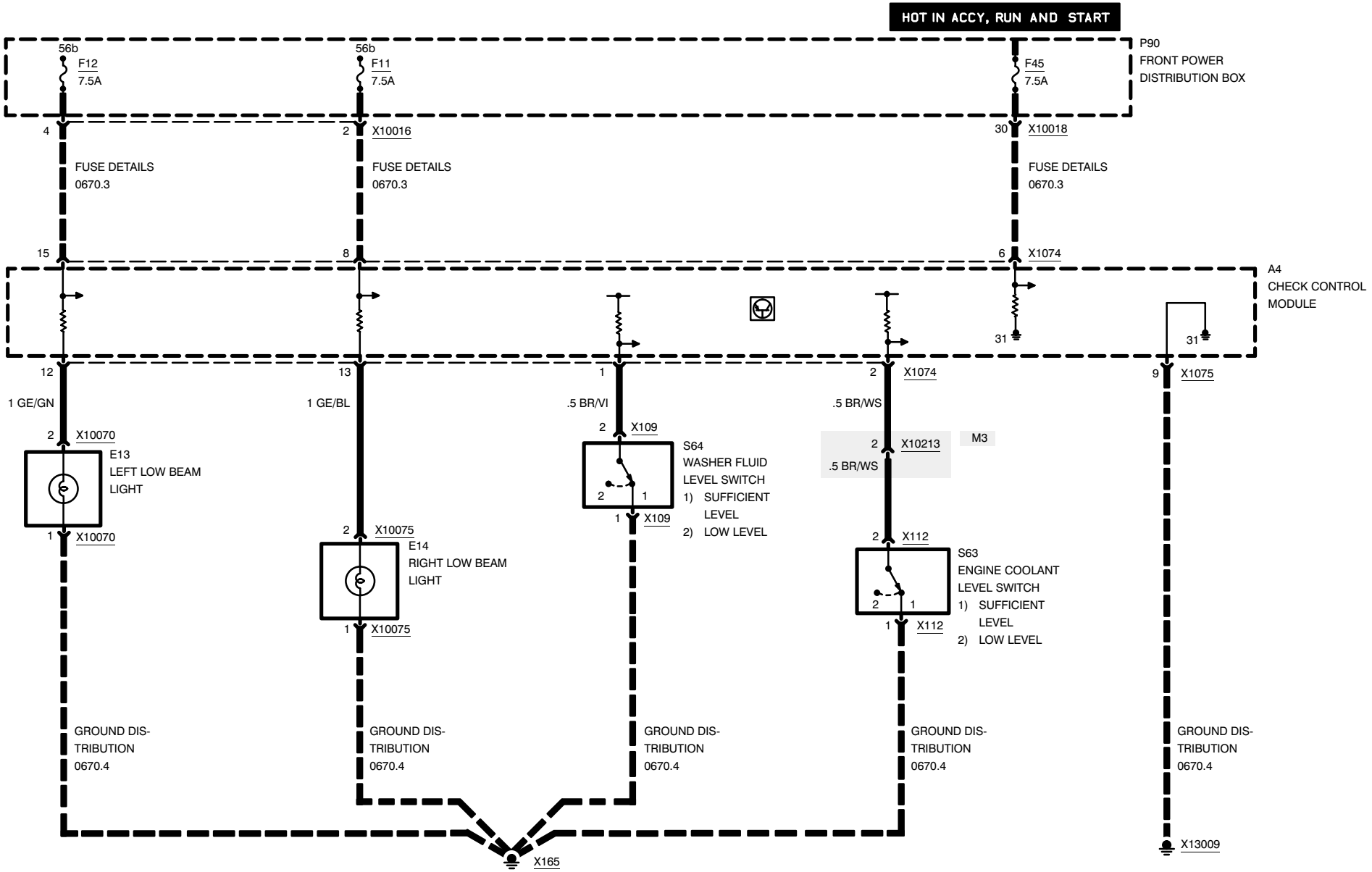
ON−BOARD COMPUTER (BC V)

CHIME, BRAKE LIGHT SWITCH



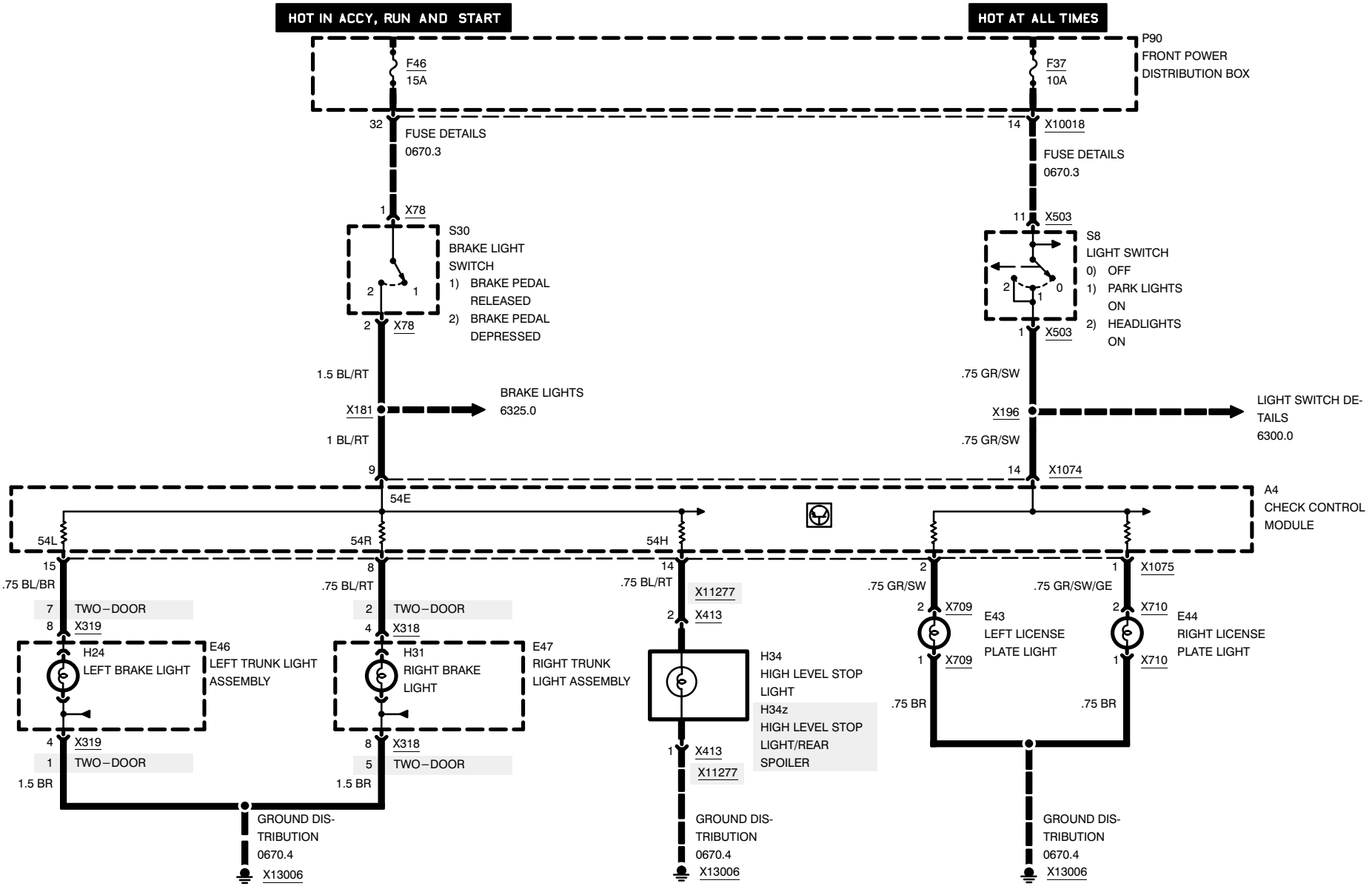
ON–BOARD COMPUTER (BC V)

CHECK CONTROL



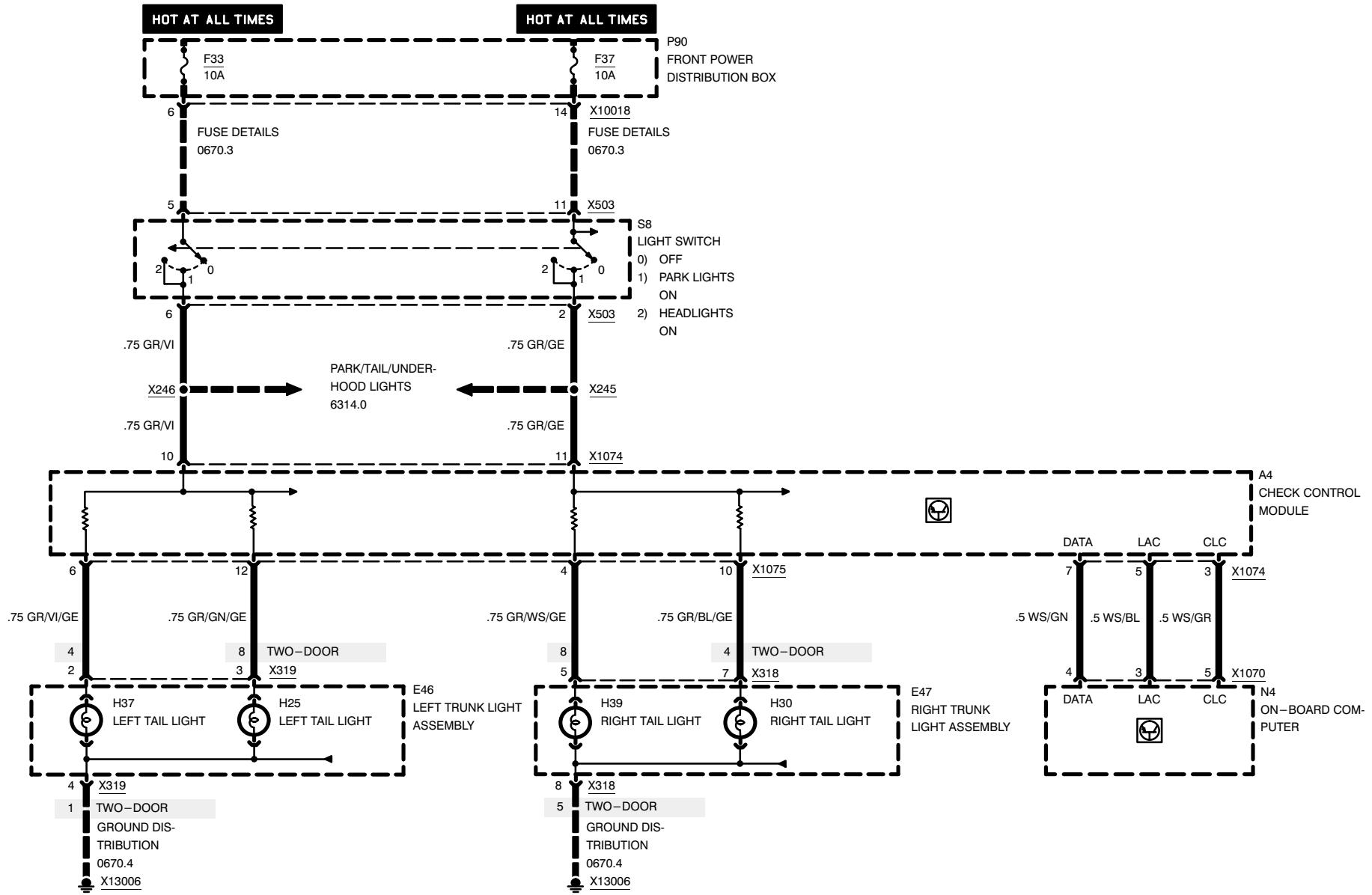
ON–BOARD COMPUTER (BC V)

CHECK CONTROL



ON–BOARD COMPUTER (BC V)

CHECK CONTROL



COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A2w	INSTRUMENT CLUSTER	LH side of dash	28-3	
A4	CHECK CONTROL MODULE	below LH side of dash	00-3	
A5	RELAY MODULE	behind glove box		
A8	CRUISE CONTROL MODULE (TEMPOMAT)	RH side of dash behind glove box	01-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	below rear seat	00-2	
A18	HIFI AMPLIFIER	below RH side of rear seat Convertible	02-3	
A18	HIFI AMPLIFIER	in LH side of luggage compartment	04-1	
A35	ON–BOARD DISPLAY	center of dash center console		
A51	WIPER/WASHER MODULE	behind glove box (glove box removed)	01-1	
A52	SLIP CONTROL MODULE (ABS/ASC)	behind glove box (glove box removed)	01-3	
A56	TILT/SLIDE SUNROOF CONTROL ASSEMBLY	under roof center panel	04-2	
A64	WIPER/WASHER MODULE (LOW II)	behind glove box (glove box removed)	01-1	
A96	CONVERTIBLE TOP CONTROL MODULE	in lower LH C–pillar behind side panel	02-1	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	behind glove box (glove box removed)	01-1	
A113	SEAT OCCUPANCY DETECTOR	under RH front seat		
A115	AUTOMATIC CLIMATE CONTROL MODULE	behind center console	03-2	
A202	ABS CONTROL MODULE/HYDRAULIC UNIT	rear LH side of engine compartment		
A835	TRANSMITTER MODULE (EWS II)	RH side of steering column	04-3	
A836	ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)	RH side of dash behind glove box	38-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment	00-1	
A7000	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
B1	RIGHT FRONT SPEED SENSOR – ABS	on RH front wheel, above brake caliper	08-3	
B2	LEFT FRONT SPEED SENSOR – ABS	on LH front wheel, above brake caliper	08-3	
B3	RIGHT REAR SPEED SENSOR – ABS	on RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR – ABS	on LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	below LH side of rear seat	21-2	
B10	VEHICLE SPEED SENSOR	under rear of car	08-1	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	center console		
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	center console		
B13	OUTSIDE TEMPERATURE SENSOR	rear of engine compartment behind RH fresh air cowl	15-2	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell LH side of IHKA Plenum	28-1	
B16	LEFT FRONT BRAKE PAD SENSOR	on LH front wheel, above brake caliper	08-3	
B17	RIGHT REAR BRAKE PAD SENSOR	behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir	18-3	
B21	ON–BOARD COMPUTER TEMPERATURE SENSOR	front RH side of engine compartment	20-1	
B25y	FUEL TANK SENSOR II	top of fuel tank		
B72	FUEL TANK PRESSURE SENSOR	RH rear wheel well behind trim panel	14-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B78	DRIVER'S SIDE IMPACT SENSOR	LH B–pillar		
B79	PASSENGER'S SIDE IMPACT SENSOR	RH B–pillar		
B6203	CRANKSHAFT POSITION/RPM SENSOR	under RH front of car rear of radiator	10-3	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	RH front of engine below intake manifold rear of radiator	12-2	
B6205	INTAKE AIR TEMPERATURE SENSOR	front LH side of engine compartment (318is)	18-2	
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine (near oil level stick)	36-3	
B6207	HOT FILM AIR MASS METER	LH side of engine	12-1	
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine (318is)		
B6217	HOT FILM AIR MASS METER	top front of engine	18-2	
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold	11-1	
B6231	OIL PRESSURE SWITCH	RH front of engine below intake manifold (318is)	17-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold	11-3	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH front of engine below intake manifold (318is)	17-2	
B6233	AIR FLOW SENSOR	LH side of engine compartment right of LH side shock tower		
B6236	ENGINE COOLANT TEMPERATURE SENSOR	front of engine	11-3	
B6238	OIL TEMPERATURE SENSOR	LH side of engine		
B6240	KNOCK SENSOR	top front of engine	11-2	
B6256	DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)	RH front of engine below intake manifold	11-1	
B9508	PRESSURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B62001	OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	37-1	
B62002	OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)	on catalytic converter	37-2	
B62101	OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	38-2	
B62102	OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
B62201	OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	38-2	
B62202	OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
C101 .	CONTACT RING	top of steering column	24-2	
C900 .	SUPPRESSION FILTER	in upper RH C−pillar	33-2	
D100 .	DATA LINK CONNECTOR	rear RH side of engine compartment	05-1	
E10 . . .	REAR DEFOGGER/ANTENNA	in rear window		
E11 . . .	LEFT HIGH BEAM LIGHT	near LH headlight assembly		
E12 . . .	RIGHT HIGH BEAM LIGHT	near RH headlight assembly		
E13 . . .	LEFT LOW BEAM LIGHT	near LH headlight assembly		
E14 . . .	RIGHT LOW BEAM LIGHT	near RH headlight assembly		
E15 . . .	LEFT PARK LIGHT	front of vehicle		
E19 . . .	RIGHT PARK LIGHT	front of vehicle		
E25 . . .	FRONT ASHTRAY LIGHT	center console	31-2	
E26 . . .	LEFT FOG LIGHT	under LH front bumper	08-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E27 . . .	RIGHT FOG LIGHT	under RH front bumper	08-2	
E28 . . .	FRONT CIGAR LIGHTER	near gearshift lever		
E28y . .	REAR ASHTRAY LIGHT	below center console	31-2	
E29 . . .	FRONT CIGAR LIGHTER LIGHT	center console		
E32 . . .	TRUNK COMPARTMENT LIGHT	in luggage compartment		
E34 . . .	FRONT DOME LIGHT/MAP READING ASSEMBLY	under roof center panel	04-2	
E35 . . .	DRIVER'S MAKE−UP MIRROR LIGHT	above LH sun visor	38-1	
E36 . . .	PASSENGER'S MAKE−UP MIRROR LIGHT	above RH sun visor	23-1	
E39 . . .	LEFT REAR INTERIOR LIGHT	in upper LH C−pillar	33-1	
E40 . . .	RIGHT REAR INTERIOR LIGHT	in upper RH C−pillar	33-2	
E42 . . .	GLOVE BOX LIGHT	LH side of glove box	25-1	
E43 . . .	LEFT LICENSE PLATE LIGHT	underside of trunk lid, near license plate	09-1	
E44 . . .	RIGHT LICENSE PLATE LIGHT	underside of trunk lid, near license plate	09-1	
E45y . .	CASSETTE BOX LIGHT	center of dash		
E46 . . .	LEFT TRUNK LIGHT ASSEMBLY	in LH rear side of luggage compartment		
E47 . . .	RIGHT TRUNK LIGHT ASSEMBLY	in RH rear side of luggage compartment	03-3	
E48	DOOR LOCK HEATER	LH front door		
E51	LEFT WASHER JET HEATER	on underside of engine hood		
E52	RIGHT WASHER JET HEATER	on underside of engine hood		
E56 . . .	DRIVER'S SEATBACK HEATER	in upper LH front seatback	23-3	
E57 . . .	DRIVER'S SEAT HEATER	under LH front seat	23-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E58 . . .	PASSENGER'S SEAT HEATER	underside of RH front seat		
E59 . . .	PASSENGER'S SEATBACK HEATER	in upper RH front seatback		
E82 . . .	TRANSMISSION POSITION INDICATOR LIGHT	center console		
E99 . . .	HARD TOP CONNECTOR 1	in convertible top compartment		
E100y	HARD TOP CONNECTOR 2	in convertible top compartment		
E101 .	LEFT TRUNK COMPARTMENT LIGHT	in LH rear side of luggage compartment Convertible		
E102 .	RIGHT TRUNK COMPARTMENT LIGHT	in RH rear side of luggage compartment Convertible		
F97 . . .	FUSIBLE LINK	in RH side of luggage compartment		
G1 . . .	BATTERY	rear RH side of engine compartment (318is)		
G1	BATTERY	in RH rear side of luggage compartment		
G5 . . .	DRIVER'S AIR BAG GAS GENERATOR	behind steering wheel	24-2	
G6 . . .	PASSENGER'S AIR BAG GAS GENERATOR	RH side of dash	27-2	
G12	DRIVER'S SIDE PYROTECHNICAL BELT TENSIONER	driver's seat right		
G13	PASSENGER'S SIDE PYROTECHNICAL BELT TENSIONER	passenger's seat left		
G6430	B+ JUMP START JUNCTION POINT	rear RH side of engine compartment back of RH side shock tower	05-1	
G6509	GENERATOR	front LH side of engine compartment	05-2	
H1w . .	ANTI−THEFT HORN (ALPINE)	front RH side of engine compartment		
H2 . . .	LEFT HORN	front of engine compartment		
H3 . . .	RIGHT HORN	front of engine compartment		
H4 . . .	RIGHT FRONT TURN LIGHT	front of vehicle		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H5	RIGHT REAR TURN LIGHT	RH side of body rear end		
H6	LEFT REAR TURN LIGHT	LH side of body rear end		
H7	LEFT FRONT TURN LIGHT	front of vehicle		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H9	LEFT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H10	CHIME MODULE	below LH side of dash		
H24	LEFT BRAKE LIGHT	LH side of body rear end		
H25	LEFT TAIL LIGHT	LH side of body rear end		
H26	LEFT REAR FOG LIGHT	LEFT TRUNK LIGHT ASSEMBLY		
H27	LEFT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY		
H28	RIGHT BACK UP LIGHT	LEFT TRUNK LIGHT ASSEMBLY		
H30	RIGHT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY		
H31	RIGHT BRAKE LIGHT	RIGHT TRUNK LIGHT ASSEMBLY		
H34	HIGH LEVEL STOP LIGHT	at back of rear window shelf		
H34z	HIGH LEVEL STOP LIGHT/REAR SPOILER	in rear spoiler		
H37	LEFT TAIL LIGHT	RIGHT TRUNK LIGHT ASSEMBLY		
H42	LEFT MID−HIGH RANGE SPEAKER	in upper LH front door		
H43	RIGHT MID−HIGH RANGE SPEAKER	in upper RH front door		
H45	RIGHT REAR SPEAKER	under rear window shelf		
H46	LEFT REAR SPEAKER	under rear window shelf		
H50	RIGHT FRONT HIGH RANGE SPEAKER	in upper RH front door		
H51	RIGHT FRONT LOW RANGE SPEAKER	in lower RH A−pillar		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H52	RIGHT REAR LOW RANGE SPEAKER	under rear window shelf		
H53	RIGHT REAR HIGH RANGE SPEAKER	under rear window shelf		
H54	RIGHT FRONT MIDRANGE SPEAKER	in upper RH front door		
H55	LEFT FRONT MIDRANGE SPEAKER	in upper LH front door		
H56	LEFT REAR HIGH RANGE SPEAKER	under rear window shelf		
H57	LEFT REAR LOW RANGE SPEAKER	under rear window shelf		
H58	LEFT FRONT LOW RANGE SPEAKER	in lower LH A−pillar		
H59	LEFT FRONT HIGH RANGE SPEAKER	in upper LH front door		
K2	HORN RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K4	BLOWER RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K9	UNLOADER RELAY, TERMINAL 15	behind LH footwell trim	25-3	
K10	ABS RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K13	REAR DEFOGGER RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K16	HAZARD FLASHER RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K19	COMPRESSOR CONTROL RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K21	NORMAL SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K22	HIGH SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K46	HIGH BEAM LIGHT RELAY	LH side of dash behind instrument cluster	02-2	
K46z	DAY LIGHT RELAY MODULE	below LH side of dash	02-2	
K47	FRONT FOG LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K48	LOW BEAM LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K75	ABS PUMP MOTOR RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K99 . . .	REAR WINDOW BLOWER RELAY	behind glove box left	25-2	
K108 .	HORN RELAY (ALPINE)	behind glove box left	01-2	
K117 .	TRUNK LID RELAY	behind glove box right		
K125 .	ABS PUMP MOTOR RELAY, TIMED	rear LH side of engine compartment in Power Distribution Box (318is)	19-3	
K450	PARK VENTILATION RELAY	below LH side of dash	02-2	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
K6301	CYL. 1–6 FUEL PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K6301w	FUEL PUMP RELAY	rear LH side of engine compartment in Front Power Distribution Box	19-1	
K6304	SECONDARY AIR PUMP RELAY	rear LH side of engine compartment in Power Distribution Box (M3)	19-3	
M2 . . .	FUEL PUMP	below RH side of rear seat	20-2	
M3 . . .	WIPER MOTOR	rear of engine compartment below center of cowl	16-1	
M4 . . .	WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	10-1	
M7 . . .	HEADLIGHT/FOG LIGHT WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	10-2	
M9 . . .	AUXILIARY FAN MOTOR	behind front grille behind trim panel	18-1	
M12 . .	DRIVER'S DOOR LOCK MOTOR	in upper LH front door behind trim panel		
M13 . .	PASSENGER'S DOOR LOCK MOTOR	in upper RH front door behind trim panel		
M14 . .	RIGHT REAR DOOR LOCK MOTOR	in upper RH rear door behind trim panel		
M15 . .	LEFT REAR DOOR LOCK MOTOR	in upper LH rear door behind trim panel		
M16 . .	GAS FILLER LOCK MOTOR	in RH rear side of luggage compartment	03-3	
M17 . .	TRUNK LOCK MOTOR	rear side of luggage compartment		
M20 . .	LEFT REAR WINDOW MOTOR	in lower LH rear door behind trim panel		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M21 ..	DRIVER'S WINDOW MOTOR	LH front door behind door panel	31-3	
M22 ..	RIGHT REAR WINDOW MOTOR	in lower RH rear door behind door panel		
M23 ..	PASSENGER'S WINDOW MOTOR	RH front door behind door panel	32-1	
M25 ..	CRUISE CONTROL ACTUATOR (TEMPOMAT)	front LH side of engine compartment	18-2	
M30 ..	BLOWER MOTOR	rear of engine compartment behind RH fresh air cowl	15-2	
M35 ..	DEFROSTER FLAP MOTOR	RH side of IHKA Plenum	29-2	
M36 ..	FRESH AIR FLAP MOTOR	below LH side of dash RH side of steering column	29-3	
M40 ..	RECIRCULATION FLAP MOTOR	below LH side of dash RH side of steering column	29-2	
M43 ..	CONVERTIBLE TOP STORAGE LID LOCK MOTOR	in convertible top compartment left	22-1	
M44 ..	REGULATION FLAP MOTOR	RH side of IHKA Plenum		
M46 ..	REAR RECIRCULATION FLAP MOTOR	RH side of IHKA Plenum		
M50 ..	DRIVER'S SEAT CUSHION TILT MOTOR	under LH front seat	23-3	
M51 ..	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat	23-3	
M52 ..	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat	23-3	
M53 ..	DRIVER'S SEATBACK RECLINER MOTOR	under LH front seat	23-3	
M58 ..	PASSENGER'S SEATBACK RECLINER MOTOR	under RH front seat		
M59 ..	PASSENGER'S SEAT HEIGHT MOTOR	under RH front seat		
M60 ..	PASSENGER'S SEAT MOVEMENT MOTOR	under RH front seat		
M61 ..	PASSENGER'S SEAT CUSHION TILT MOTOR	under RH front seat		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M93	AUXILIARY THROTTLE POSITION MOTOR (ADS)	front of engine compartment		
M98	LEFT REAR WINDOW MOTOR	left from LH rear seat behind trim panel	22-2	
M99	RIGHT REAR WINDOW MOTOR	RH side of RH rear seat behind trim panel	22-2	
M100	CONVERTIBLE TOP STORAGE LID MOTOR	in LH side of luggage compartment	34-1	
M101	CONVERTIBLE TOP MOTOR	in LH side of luggage compartment	34-3	
M105	REAR WINDOW BLOWER	behind rear seats	21-3	
M107	GLOVE BOX LOCK MOTOR	RH side of dash behind glove box		
M132	WINDSCREEN COWL PANEL LOCK MOTOR	front cover	35-1	
M6510	STARTER	rear LH side of engine compartment		
N2	FINAL STAGE UNIT	behind LH side of dash		
N3	DIMMER	LH side of dash	26-1	
N4	ON−BOARD COMPUTER	center console	03-1	
N5	ANALOG CLOCK	center console		
N8	ANTENNA AMPLIFIER AM/FM	in upper LH C−pillar	33-1	
N10	MULTI−FUNCTION CLOCK	center console		
N12w	ANTI−THEFT CONTROL MODULE (ALPINE)	behind glove box (glove box removed)	01-3	
N17	CRASH CONTROL MODULE	LH side of dash behind instrument cluster	02-2	
N22	CD CHANGER	in LH forward side of luggage compartment		
N24	ROLLOVER SENSOR	in lower LH C−pillar behind side panel	02-3	
P90	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment	05-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
P95 . . .	AUXILIARY FUSE BOX	footwell, driver's side		
P96 . . .	AUXILIARY FUSE BOX IN LUGGAGE COMPARTMENT	in RH side of luggage compartment behind trim panel		
P97 . . .	AUXILIARY FUSE BOX	LH side of dash behind instrument cluster	02-2	
R11 . .	BLOWER RESISTORS	behind center of dashboard left	29-1	
R6252	THROTTLE POSITION SENSOR	LH side of engine (near oil level stick)	13-3	
R6252	THROTTLE POSITION SENSOR	LH side of engine compartment (318is)	17-3	
R8554	RESISTOR	front of engine compartment		
S2	IGNITION SWITCH	LH side of dash	24-3	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console near gearshift lever	30-3	
S4	HORN SWITCH	top of steering column	24-2	
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	center console	30-2	
S7	COMBINATION SWITCH	LH side of steering column	24-3	
S8	LIGHT SWITCH	LH side of dash	26-1	
S10 . . .	FOG LIGHT SWITCH	LH side of dash		
S13 . . .	PASSENGER'S DOOR JAMB SWITCH	in upper RH B−pillar	33-3	
S14 . . .	DRIVER'S DOOR JAMB SWITCH	in upper LH B−pillar	33-3	
S17 . . .	MIRROR CONTROL SWITCH	in upper LH front door		
S18 . . .	HAZARD SWITCH	center console near gearshift lever	30-3	
S21w .	ENGINE HOOD SWITCH	front RH side of engine compartment on washer fluid reservoir	10-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S28 . . .	CRUISE CONTROL SWITCH	on steering column	24-3	
S29 . . .	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-3	
S30 . . .	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	
S31 . . .	PARK BRAKE SWITCH	center console on rear of park brake lever	31-2	
S32 . . .	CLUTCH SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim	26-3	
S36 . . .	TEMPERATURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	
S36y	DOUBLE TEMPERATURE SWITCH	RH top of radiator		
S38 . . .	TILT/SLIDE SUNROOF SWITCH (SHD)	roof		
S40y .	CENTRAL POWER WINDOW SWITCH	center console		
S41y .	LH REAR DOOR POWER WINDOW SWITCH (DOOR)	in lower LH rear door behind trim panel		
S42y .	RH REAR DOOR POWER WINDOW SWITCH (DOOR)	in lower RH rear door behind trim panel		
S53 . . .	DRIVER'S SEAT, SEAT HEATER SWITCH	center console near gearshift lever	30-2	
S54 . . .	PASSENGER'S SEAT, SEAT HEATER SWITCH	center console near gearshift lever	30-1	
S58 . . .	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		
S59 . . .	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S61y .	TRUNK LIGHT SWITCH	underside of trunk lid left	34-2	
S63 . . .	ENGINE COOLANT LEVEL SWITCH	front RH side of engine compartment	18-1	
S64 . . .	WASHER FLUID LEVEL SWITCH	front RH side of engine compartment on washer fluid reservoir	10-1	
S75 . . .	BLOWER SWITCH	center of dash		
S77 . . .	DRIVER'S MAKE–UP MIRROR SWITCH	above LH sun visor	38-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S78 . . .	PASSENGER'S MAKE–UP MIRROR SWITCH	above RH sun visor	23-1	
S123 .	ABS PEDAL TRAVEL SENSOR	near brake master cylinder (M3)	18-3	
S124 .	RIGHT REAR DOOR CONTACT	rear RH door pillar		
S125 .	LEFT REAR DOOR CONTACT	LH rear door jamb		
S126y	DRIVER'S POWER WINDOW SWITCH	center console near gearshift lever	31-1	
S127y	PASSENGER'S POWER WINDOW SWITCH	center console near gearshift lever	31-1	
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	center console		
S128z	LH REAR POWER WINDOW SWITCH	center console		
S129y	RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	center console		
S129z	RH REAR POWER WINDOW SWITCH	center console		
S130 .	CHILD PROTECTION CONTROL (CONSOLE)	center console		
S143 .	CONVERTIBLE TOP ACTUATING SWITCH .	center console		
S164 .	CONVERTIBLE TOP END–POSITION MICRO SWITCH	at convertible top linkage		
S165 .	CONVERTIBLE TOP POSITION MICRO SWITCH	at convertible top linkage		
S196 .	REAR WINDOW BLOWER MICRO SWITCH .	behind rear seats	35-2	
S198	JET HEATER THERMOSWITCH	front LH side of engine compartment	37-3	
S213 .	TRUNK LID MICRO SWITCH	underside of trunk lid		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S214 .	CONVERTIBLE TOP STORAGE LID MICRO SWITCH	at convertible top linkage		
S231 .	WINDSCREEN COWL PANEL LOCK MICRO-SWITCH	front cover	35-1	
S235	STARTER IMMOBILIZATION SWITCH	LH footwell	39-2	
S303 .	SWITCH SPATIAL SOUND	center console		
S8503	PROGRAM SWITCH	center console		
S8507	KICK–DOWN SWITCH	LH footwell		
S8511	REVERSING LIGHT SWITCH	under front of car LH side of transmission		
T6151	CYL. 1 IGNITION COIL	top RH side of engine	13-1	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6152	CYL. 2 IGNITION COIL	top RH side of engine	13-1	
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6153	CYL. 3 IGNITION COIL	top RH side of engine	13-1	
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6154	CYL. 4 IGNITION COIL	top RH side of engine	13-1	
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6155	CYL. 5 IGNITION COIL	top RH side of engine	13-1	
T6156	CYL. 6 IGNITION COIL	top RH side of engine	13-1	
V7	ASC DIODE	top LH side of engine compartment in Front Power Distribution Box		
X0	B+ JUNCTION POINT	rear LH side of engine compartment	05-3	
X2	BATTERY B+ START POINT	rear LH side of engine compartment	05-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X9	B+ JUNCTION POINT	rear LH side of engine compartment	05-3	
X13	(30 PINS, BLACK)	behind LH footwell kickpanel	39-1	00-4
X14	(30 PINS, WHITE)	behind LH footwell kickpanel	39-1	00-4
X16	(26 PINS, WHITE)	LH side of dash rear of INSTRUMENT CLUSTER, A2w	28-3	00-2
X17	(26 PINS, BLUE)	LH side of dash rear of INSTRUMENT CLUSTER, A2w	28-3	00-2
X20	(25 PINS, BLACK)	rear LH side of engine compartment	18-3	05-2
X22	(26 PINS, BLUE)	RH side of dash behind glove box	01-2	00-2
X32	(12 PINS, WHITE)	LH footwell underside of steering column	27-3	04-6
X33	(12 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	04-6
X35	(12 PINS, NATURAL)	below LH side of dash RH side of steering column	27-3	04-6
X44	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X45	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X51	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X52	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X53	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X54	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X56	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X58	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X63	(9 PINS, BLACK)	behind LH footwell speaker grille		03-6
X64	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X65	(9 PINS, BLACK)	below LH side of dash		03-6
X69	(25 PINS, GRAY)	rear LH side of engine compartment	18-3	05-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X70	(8 PINS, BLACK)	front LH side of engine compartment	18-2	02-2
X72	(6 PINS, BLACK)	footwell, driver's side	27-3	04-2
X74	(50 PINS, BLACK)	below rear seat	00-2	02-5
X78	(4 PINS, BLACK)	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	03-3
X82	(3 PINS, BLACK)	front of engine compartment on auxiliary fan	18-1	08-1
X85	(3 PINS, BLACK)	rear LH side of engine compartment	16-2	06-3
X87	(3 PINS, BLACK)	front RH side of engine compartment RH top of radiator	09-3	06-3
X105	(2 PINS, GRAY)	on underside of engine hood		
X106	(2 PINS, GRAY)	on underside of engine hood		
X107	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir	10-1	
X109	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	
X111	(2 PINS, BLACK)	rear LH side of engine compartment near brake master cylinder top of brake fluid reservoir	18-3	
X112	(2 PINS, BLACK)	front RH side of engine compartment	18-1	
X113	(2 PINS, GRAY)	wheel well right	09-2	
X114	(2 PINS, GRAY)	wheel well left	09-2	
X116	(2 PINS, BLACK)	LH footwell near brake pedal	26-3	
X118	(2 PINS, BLACK)	wheel well left	09-2	
X121	(2 PINS, WHITE)	LH footwell on clutch pedal	26-3	
X123	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir	10-2	
X128	(2 PINS, BLACK)	front RH side of engine compartment		
X132	(2 PINS, BLACK)	front of engine compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X133	(2 PINS, BLACK)	front of engine compartment		
X137	(2 PINS, BLACK)	front LH side of engine compartment		
X142	(3 PINS, GRAY)	under rear of car LH side of on differential		02-1
X143	(3 PINS, GRAY)	under rear of car near differential	08-1	02-1
X163	(3 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	06-3
X165	GROUND	front LH side of engine compartment	06-3	
X168	(1 PIN, BLACK)	LH side of steering column		
X173	GROUND	below LH side of dash	07-1	
X209	(12 PINS, BLACK)	LH footwell underside of steering column		
X256	(26 PINS, BLACK)	ahead of RH front door in lower RH A−pillar	32-1	04-1
X257	(26 PINS, BLACK)	ahead of LH front door in lower LH A−pillar		04-1
X271	(12 PINS, BLACK)	LH side of dash rear of INSTRUMENT CLUSTER, A2w	28-3	01-3
X272	(2 PINS, BLACK)	under roof center panel		
X273	(12 PINS, BLACK)	in lower LH B−pillar	21-1	01-2
X274	(12 PINS, BLACK)	in lower RH B−pillar	21-1	01-2
X275	(4 PINS, WHITE)	under LH front seat	23-2	03-3
X279	(4 PINS, WHITE)	under RH front seat	32-3	03-3
X285	(15 PINS, BLUE)	behind glove box	25-2	00-3
X292	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X295	(8 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	03-5
X311	(3 PINS, BLACK)	underside of trunk lid left	34-2	01-1
X312	(2 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	01-6

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X315	(2 PINS, BLACK)	underside of trunk lid left	34-2	
X316	(6 PINS, WHITE)	center console near gearshift lever	31-1	05-3
X317	(6 PINS, WHITE)	center console near gearshift lever	30-3	07-1
X318	(8 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	01-4
X319	(8 PINS, BLACK)	in LH rear side of luggage compartment behind LH rear light assembly		01-4
X320	(6 PINS, WHITE)	center console near gearshift lever	30-3	07-1
X322	(6 PINS, BLACK)	LH footwell	28-2	04-2
X324	(6 PINS, WHITE)	center console near gearshift lever	31-1	05-3
X333	(4 PINS, BLACK)	rear of engine compartment below center of cowl	16-1	07-2
X336	(6 PINS, BLACK)	above LH sun visor	04-2	09-3
X351	(2 PINS, BLACK)	in upper RH B−pillar		
X352	(3 PINS, BLACK)	in lower LH C−pillar behind side panel	35-3	01-1
X355	(2 PINS, BLACK)	in upper RH C−pillar	33-2	
X356	(2 PINS, BLACK)	in upper LH C−pillar	33-1	
X371	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-2	
X372	(2 PINS, GRAY)	rear RH side of engine compartment back of RH side shock tower		
X379	(1 PIN, NATURAL)	in upper LH C−pillar	33-1	
X380	(1 PIN, NATURAL)	in upper RH C−pillar	33-2	
X381	(3 PINS, BLACK)	above LH sun visor	38-1	01-1
X382	(3 PINS, BLACK)	above RH sun visor	23-1	01-1
X383	(2 PINS, BLACK)	under rear of car on differential	08-1	
X386	(2 PINS, BLACK)	REAR ASHTRAY LIGHT		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X389	(2 PINS, GRAY)	rear LH side of engine compartment		
X390	(2 PINS, BLACK)	RH side of dash behind glove box		
X400	(8 PINS, BLACK)	in LH rear side of luggage compartment		03-5
X401	(1 PIN, BLACK)	above LH sun visor	38-1	
X402	(1 PIN, BLACK)	above RH sun visor	23-1	
X413	(2 PINS, BLACK)	at back of rear window shelf		
X423	(1 PIN, NATURAL)	below center console on rear of park brake lever		
X424	(1 PIN, BROWN)	in upper LH C−pillar	33-1	
X494	GROUND	under LH front seat under carpet		
X495	GROUND	behind RH footwell trim	07-3	
X498	GROUND	under LH front seat under carpet		
X503	(12 PINS, WHITE)	LH side of dash	26-1	01-6
X504	(4 PINS, WHITE)	LH side of dash	26-1	03-3
X511	(8 PINS, BLACK)	center console	30-3	01-4
X516	(5 PINS, BLACK)	center console	30-3	03-2
X517	(4 PINS, BLACK)	LH side of dash	26-1	03-3
X518	(4 PINS, BLACK)	LH footwell	28-2	03-3
X521	(6 PINS, BLUE)	center console		04-5
X522	(3 PINS, WHITE)	LH footwell	28-2	03-6
X531	(1 PIN, NATURAL)	center console near gearshift lever	30-2	
X532	(2 PINS, BLACK)	center console near gearshift lever	30-2	
X537	(2 PINS, BLACK)	in upper LH front door behind door panel	31-3	01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X538	(2 PINS, BLACK)	RH front door behind door panel	32-1	
X542	(2 PINS, BLACK)	LH side of glove box	25-1	
X603	(6 PINS, – – –)	center console		05-1
X604	(6 PINS, – – –)	RH front seat		05-1
X605	(12 PINS, BLACK)	below RH side of rear seat Convertible	02-3	03-4
X605	(12 PINS, BLACK)	in LH side of luggage compartment	04-1	03-4
X606	(26 PINS, BLACK)	below RH side of rear seat Convertible	02-3	00-2
X606	(26 PINS, BLACK)	in LH side of luggage compartment	04-1	00-2
X607	(9 PINS, BLACK)	below LH side of dash	02-2	03-6
X623	(4 PINS, BLACK)	in upper LH front door behind door panel		10-1
X624	(4 PINS, BLACK)	in upper RH front door behind door panel	32-1	10-1
X625	(6 PINS, WHITE)	LH front door	31-3	05-1
X638	(2 PINS, BLACK)	below RH side of rear seat	20-2	
X641	(6 PINS, BLACK)	RH front door behind door panel		08-2
X643	(6 PINS, GREEN)	in roof panel		09-1
X644	(6 PINS, BLACK)	in lower LH rear door		05-3
X645	(6 PINS, BLUE)	in lower LH rear door		06-2
X646	(6 PINS, BLACK)	in lower RH rear door behind trim panel		06-2
X647	(6 PINS, BLUE)	in lower RH rear door behind trim panel		08-4
X651	(6 PINS, YELLOW)	center console	30-2	05-3
X652	(6 PINS, BLACK)	driver's seat left		05-1
X658	(6 PINS, YELLOW)	center console	30-1	05-3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X660	(4 PINS, BLACK)	LH front door in door at key lock assembly		05-4
X663	(6 PINS, GRAY)	RH side of IHKA Plenum	29-3	10-1
X671	(5 PINS, BLACK)	behind LH side of dash		04-3
X679	(2 PINS, WHITE)	below RH side of rear seat	20-2	
X700	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X701	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X706	(2 PINS, BLACK)	center console	31-2	
X709	(2 PINS, BLACK)	underside of trunk lid, near license plate	09-1	
X710	(2 PINS, BLACK)	underside of trunk lid, near license plate	09-1	
X711	(1 PIN, NATURAL)	underside of trunk lid left	34-2	
X712	(1 PIN, NATURAL)	underside of trunk lid left		
X713	(2 PINS, BLACK)	under rear of car on differential	08-1	
X714	(2 PINS, GRAY)	in lower LH rear door behind trim panel		
X720	(2 PINS, GRAY)	in lower RH rear door behind trim panel		
X726	(2 PINS, – – –)	under LH front seat	23-2	
X727	(2 PINS, – – –)	under LH front seat	23-2	
X728	(2 PINS, – – –)	under LH front seat	23-2	
X729	(2 PINS, – – –)	under LH front seat	23-2	
X732	(4 PINS, BLACK)	under LH front seat under carpet		03-3
X733	(4 PINS, BLACK)	under LH front seat under carpet		03-3
X734	(2 PINS, – – –)	under RH front seat		
X735	(2 PINS, – – –)	under RH front seat		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X736	(2 PINS, – – –)	under RH front seat		
X737	(2 PINS, – – –)	under RH front seat		
X740	(4 PINS, BLACK)	under RH front seat	24-1	03-3
X741	(4 PINS, BLACK)	under RH front seat	24-1	03-3
X742	(2 PINS, YELLOW)	RH front door in door at key lock assembly		
X744	(2 PINS, GRAY)	RH front door behind door panel	32-1	
X745	(3 PINS, BLACK)	above RH footwell dash panel		01-1
X746	(3 PINS, BLACK)	RH front door behind door panel	32-1	01-1
X747	(2 PINS, YELLOW)	LH front door in door at key lock assembly	32-2	
X748	(3 PINS, BLACK)	footwell, driver's side behind trim panel		01-1
X749	(4 PINS, BLACK)	in upper LH front door	31-3	12-3
X751	(2 PINS, WHITE)	LH front door	32-2	
X752	(2 PINS, GRAY)	LH front door in door at key lock assembly	32-2	
X753	(3 PINS, BLACK)	LH front door		01-1
X768	(2 PINS, WHITE)	in the engine compartment near LH headlight assembly	08-2	
X769	(2 PINS, WHITE)	in the engine compartment near RH headlight assembly	08-2	
X770	(2 PINS, YELLOW)	front RH side of engine compartment	20-1	
X771	(2 PINS, BLACK)	RH side of LH footwell LH side of IHKA Plenum	28-1	
X772	(2 PINS, WHITE)	center console		
X773	(2 PINS, WHITE)	center console		
X774	(1 PIN, GRAY)	rear of engine compartment behind RH fresh air cowl		
X778	(3 PINS, BLACK)	under LH front seat	23-2	01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X779	(2 PINS, BLACK)	LH side of glove box	25-1	
X782	(3 PINS, ORANGE)	below RH side of dash	27-2	10-3
X783	(3 PINS, BLACK)	underside of steering column		10-3
X816	(2 PINS, BLACK)	rear of engine compartment behind RH fresh air cowl		
X817	(1 PIN, BLACK)	rear of engine compartment behind RH fresh air cowl		
X899	(12 PINS, BLACK)	behind center of dashboard		01-3
X904	(4 PINS, GRAY)	LH side of IHKA Plenum	29-1	03-3
X905	(5 PINS, BLACK)	behind center of dashboard		
X999	(4 PINS, – – –)	behind center of dashboard left		03-3
X1001	(4 PINS, BLACK)	RIGHT REAR SPEAKER		03-3
X1002	(4 PINS, – – –)	LEFT REAR SPEAKER		03-3
X1014	(1 PIN, BLACK)	center console near gearshift lever	30-2	
X1070	(18 PINS, BLACK)	center console	03-1	01-5
X1071	(18 PINS, NATURAL)	center console	03-1	01-5
X1074	(15 PINS, WHITE)	below LH side of dash	00-3	00-3
X1075	(15 PINS, BLACK)	below LH side of dash	00-3	00-3
X1148	(2 PINS, BLACK)	front LH side of engine compartment	37-3	
X1155	(3 PINS, BLACK)	center console		01-1
X1161	(9 PINS, BLACK)	in Power Distribution Box		03-6
X1162	(2 PINS, BLACK)	near brake master cylinder	18-3	
X1165	GROUND	below LH side of dash	07-1	
X1166	GROUND	behind RH footwell trim	07-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1170	(42 PINS, BLACK)	behind glove box (glove box removed)	01-3	10-4
X1171	(55 PINS, BLACK)	behind glove box (glove box removed)	01-3	00-1
X1175	(42 PINS, BLACK)	behind glove box (glove box removed)		10-4
X1176	(25 PINS, BLACK)	LH side of engine compartment		05-3
X1178	(2 PINS, WHITE)	below center console LH side of gearshift selector		
X1193	(3 PINS, BLACK)	center console RH side of gearshift selector		01-1
X1213	(2 PINS, BLACK)	center console	31-2	
X1239	(2 PINS, BLACK)	RH C−Pillar		
X1240	(2 PINS, BLACK)	LH C−Pillar		
X1241	(2 PINS, NATURAL)	below LH side of rear seat	21-2	
X1243	(6 PINS, BLACK)	center console near gearshift lever	31-1	04-2
X1260	(2 PINS, NATURAL)	behind side panel left		
X1261	(2 PINS, NATURAL)	behind side panel right		
X1292	(4 PINS, NATURAL)	center console		10-1
X1380	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X1381	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X1441	GROUND	below rear seat	00-2	
X1527	(26 PINS, BLUE)	behind center console	03-2	00-2
X1588	(2 PINS, BLACK)	below LH side of dash		
X1659	(15 PINS, YELLOW)	RH side of dash behind glove box	38-3	00-3
X1660	(3 PINS, WHITE)	RH side of steering column	04-3	01-1
X1883	(3 PINS, −−−)	in driver's door		01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1884	(3 PINS, – – –)	in passenger's door		01-1
X1885	(3 PINS, BLACK)	LH B–pillar		01-1
X1886	(3 PINS, BLACK)	RH B–pillar		01-1
X1890	(3 PINS, BLACK)	behind front grille behind trim panel		01-1
X1892	(3 PINS, BLACK)	in RH rear side of luggage compartment		01-1
X4770	(4 PINS, NATURAL)	in upper RH C–pillar		10-1
X4771	(4 PINS, NATURAL)	in upper LH C–pillar		10-1
X6000	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X6002	(20 PINS, BLACK)	rear RH side of engine compartment	05-1	04-4
X6031	(12 PINS, BLACK)	rear LH side of engine compartment		01-6
X6091	(30 PINS, BLACK)	rear of engine compartment on engine bulkhead		05-6
X6101	(2 PINS, BLACK)	top center of engine	36-1	
X6102	(2 PINS, BLACK)	top center of engine	36-1	
X6103	(2 PINS, BLACK)	top center of engine	36-1	
X6104	(2 PINS, BLACK)	top center of engine	36-1	
X6105	(2 PINS, BLACK)	top center of engine	36-1	
X6106	(2 PINS, BLACK)	top center of engine	36-1	
X6120	(2 PINS, BLACK)	LH side of engine compartment right of LH side shock tower	15-1	
X6120	(2 PINS, BLACK)	LH side of engine compartment right of LH side shock tower	20-3	
X6130	(3 PINS, GRAY)	front of engine below intake manifold	11-3	10-2
X6130	(2 PINS, BLACK)	rear LH side of engine compartment	11-2	
X6131	(2 PINS, BLACK)	rear LH side of engine compartment	36-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6133	(2 PINS, BLACK)	front of engine compartment		
X6150	(12 PINS, BLACK)	front RH side of engine compartment	05-1	01-6
X6151	(3 PINS, GRAY)	top RH side of engine		07-4
X6152	(3 PINS, GRAY)	top RH side of engine		07-4
X6153	(3 PINS, GRAY)	top RH side of engine		07-4
X6154	(3 PINS, GRAY)	top RH side of engine		07-4
X6155	(3 PINS, GRAY)	top RH side of engine		07-4
X6156	(3 PINS, GRAY)	top RH side of engine		07-4
X6163	(2 PINS, BLACK)	RH side of engine		
X6203	(3 PINS, BLACK)	front of engine below intake manifold	12-2	10-2
X6204	(3 PINS, BLACK)	front of engine below intake manifold	12-2	07-3
X6205	(2 PINS, BLACK)	front LH side of engine compartment (318is)	18-2	
X6205	(2 PINS, BLACK)	LH side of engine (near oil level stick)	36-3	
X6207	(4 PINS, BLACK)	LH side of engine	12-1	07-2
X6209	(3 PINS, BLACK)	front of engine HALL EFFECT CAMSHAFT SENSOR		07-5
X6217	(4 PINS, GRAY)	top front of engine	18-2	07-2
X6231	(2 PINS, BLACK)	LH side of engine compartment (near oil level stick)	11-1	
X6231	(2 PINS, BROWN)	RH front of engine below intake manifold (318is)	17-1	
X6238	(2 PINS, BLACK)	LH side of engine (M3)	14-2	
X6240	(4 PINS, BLACK)	LH side of engine near starter		07-2
X6252	(3 PINS, BLACK)	LH side of engine	13-3	07-3
X6252	(3 PINS, BLACK)	LH side of engine (near oil level stick)	12-1	10-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6256	(4 PINS, BLACK)	front of engine	11-1	07-2
X6256	(4 PINS, BLACK)	front of engine	17-2	
X6275	(2 PINS, BLACK)	top center of engine	12-2	
X6300	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6301	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6304	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6326	(9 PINS, BLACK)	rear RH side of engine compartment in E−Box		03-6
X6430	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6431	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6432	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6433	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6437	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6454	GROUND	rear RH side of engine compartment back of RH side shock tower	06-2	
X6456	GROUND	on cylinder head	07-2	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	05-2	
X6510	CABLE SOCKET STARTER, TERMINAL 50	rear LH side of engine compartment below intake manifold		
X6511	CABLE SOCKET STARTER, TERMINAL 30h	rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER, TERMINAL 30	rear LH side of engine compartment below intake manifold		
X6550	(2 PINS, BLACK)	under LH center of car behind trim panel	27-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X7000	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X7509	CABLE SOCKET ALTERNATOR, TERMINAL D+	front LH side of engine compartment below		
X8500	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X8503	(10 PINS, WHITE)	center console RH side of gearshift selector	31-1	02-4
X8505	(16 PINS, BLACK)	on RH side of transmission		03-1
X8507	(1 PIN, BLACK)	below LH side of dash		
X8511	(2 PINS, BLACK)	under front of car LH side of transmission		
X8516	(3 PINS, BLACK)	under center of car above		10-2
X8521	(9 PINS, BLACK)	under center of car above		09-2
X9997	(2 PINS, ORANGE)	behind steering wheel	24-2	
X10010	GROUND	behind RH footwell trim		
X10012	GROUND	behind RH footwell trim	07-3	
X10013	(1 PIN, ---)	top of steering column		
X10054	(12 PINS, BLACK)	below LH side of dash RH side of steering column	28-1	04-6
X10070	(2 PINS, GRAY)	near LH headlight assembly	13-2	
X10071	(2 PINS, BLACK)	near LH headlight assembly	13-2	
X10074	(2 PINS, BLACK)	near LH headlight assembly		
X10075	(2 PINS, GRAY)	near RH headlight assembly		
X10092	(9 PINS, BLACK)	behind glove box left	25-2	03-6
X10094	(2 PINS, BLACK)	LH side of engine compartment	12-1	
X10098	(1 PIN, ---)	front RH side of engine compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10099	(1 PIN, ---)	front RH side of engine compartment		
X10182	(18 PINS, BLACK)	behind glove box (glove box removed)		01-5
X10193	(9 PINS, BLACK)	behind glove box (glove box removed)	01-2	03-6
X10216	(2 PINS, YELLOW)	driver's seat right		
X10217	(2 PINS, YELLOW)	passenger's seat left		
X10218	(3 PINS, NATURAL)	under RH front seat	24-1	01-1
X10223	(3 PINS, BLACK)	in convertible top compartment left	22-1	03-6
X10224	(2 PINS, BLACK)	in convertible top compartment left	22-1	
X10225	(3 PINS, BLACK)	underside of trunk lid		01-1
X10226	(9 PINS, BLACK)	behind glove box	25-2	03-6
X10227	(4 PINS, BLACK)	in convertible top compartment		07-6
X10238	(2 PINS, BLACK)	LH side of engine compartment		
X10239	(3 PINS, BLACK)	LH side of engine compartment	12-1	07-3
X10244	(1 PIN, BLACK)	below LH side of dash		
X10250	(2 PINS, ---)	behind LH footwell speaker grille		
X10261	(4 PINS, BLACK)	front RH side of engine compartment near RH headlight assembly	09-3	08-5
X10262	(9 PINS, BLACK)	below LH side of dash		03-6
X10266	(6 PINS, BLACK)	below RH side of rear seat Convertible		09-1
X10267	(6 PINS, BLACK)	center console		05-3
X10273	(2 PINS, BLACK)	LH side of dash behind instrument cluster		
X11166	GROUND	in lower LH C-pillar behind side panel	35-3	
X11205	(2 PINS, BLACK)	behind rear seats right	22-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X11208	(2 PINS, BLACK)	hard top		
X11209	(2 PINS, BLACK)	behind rear seats left behind side panel	35-3	
X11211	(2 PINS, – – –)	in convertible top compartment		
X11277	(3 PINS, YELLOW)	in rear spoiler		01-1
X11289	(3 PINS, BLACK)	under LH front seat		
X11290	(3 PINS, BLACK)	under RH front seat		
X11335	(3 PINS, – – –)	in driver's door		01-1
X11336	(3 PINS, – – –)	in passenger's door		01-1
X11379	(3 PINS, BLACK)	RH top of radiator	09-3	06-3
X11382	(2 PINS, BLUE)	front cover	35-1	
X11383	(2 PINS, BLUE)	in lower LH C–pillar behind side panel	35-3	
X11385	(3 PINS, BLACK)	front cover	35-1	01-1
X11386	(3 PINS, BLUE)	in lower LH C–pillar behind side panel	35-3	01-1
X11390	(12 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	01-3
X11393	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X11394	(25 PINS, BLACK)	rear LH side of engine compartment back of LH side shock tower		05-5
X11395	(3 PINS, BLACK)	behind glove box (glove box removed)		
X13004	GROUND	in upper RH rear seatback	06-1	
X13006	GROUND	in upper LH rear seatback		
X13009	GROUND	behind RH footwell trim above	07-3	
X13016	GROUND	below LH side of dash	07-1	
X13025	(12 PINS, BLACK)	behind glove box (glove box removed)	01-3	04-6

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13044	(12 PINS, BLACK)	in lower LH C−pillar behind side panel	02-1	01-3
X13045	(6 PINS, GREEN)	center console		05-3
X13079	(3 PINS, YELLOW)	behind rear seats		01-1
X13142	(2 PINS, WHITE)	behind rear seats	21-3	
X13143	(3 PINS, BLACK)	behind rear seats behind side panel	35-3	01-1
X13145	(6 PINS, BLACK)	in LH side of luggage compartment	34-3	04-2
X13146	(2 PINS, BLACK)	in LH side of luggage compartment	34-1	
X13152	(4 PINS, BLACK)	in LH side of luggage compartment	34-1	07-6
X13156	(10 PINS, BLACK)	in lower LH C−pillar behind side panel	02-1	09-4
X13157	(6 PINS, BLACK)	in lower LH C−pillar behind side panel	02-1	05-3
X13159	(26 PINS, BLACK)	in lower LH C−pillar behind side panel	02-1	00-2
X13170	(2 PINS, BLACK)	in spare−wheel well	14-3	
X13171	(3 PINS, NATURAL)	RH rear wheel well behind trim panel	14-1	06-4
X13172	(2 PINS, BLACK)	in LH rear side of luggage compartment	14-2	
X13176	(6 PINS, NATURAL)	under roof center panel		09-1
X13226	(2 PINS, BLACK)	behind rear seats		
X13227	(2 PINS, BLACK)	behind rear seats		
X13230	GROUND	behind RH footwell trim above Convertible		
X13252	(15 PINS, YELLOW)	behind glove box (glove box removed)	01-1	00-3
X13253	(26 PINS, YELLOW)	behind glove box (glove box removed)	01-1	00-2
X13254	(26 PINS, GREEN)	behind glove box (glove box removed)	01-1	00-2
X13255	(12 PINS, NATURAL)	behind glove box (glove box removed)		01-3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13256	(2 PINS, GRAY)	left from LH rear seat behind trim panel	22-2	
X13257	(2 PINS, GRAY)	RH side of RH rear seat behind trim panel	22-2	
X13258	(15 PINS, WHITE)	behind glove box (glove box removed)	25-2	00-3
X13262	(6 PINS, BLUE)	center console		05-3
X13263	(2 PINS, BLACK)	behind glove box		
X13283	(9 PINS, BLACK)	LH side of LH footwell		03-6
X13305	(8 PINS, BLACK)	center console		01-4
X18080	(1 PIN, NATURAL)	in luggage compartment		
X18126	(17 PINS, BLACK)	center console behind radio		02-3
X18135	(4 PINS, – – –)	under driver's seat		
X18196	(10 PINS, BLACK)	driver's door LEFT FRONT HIGH RANGE SPEAKER		02-4
X18198	(10 PINS, BLACK)	passenger's door RIGHT FRONT HIGH RANGE SPEAKER		02-4
X18279	(2 PINS, BLACK)	in lower LH front door behind trim panel		
X18280	(2 PINS, BLACK)	in lower RH side of front door behind trim panel		
X18336	(3 PINS, BLACK)	LH side of glove box (glove box removed)		01-1
X18518	(3 PINS, BLACK)	under RH front seat		01-1
X18520	(10 PINS, – – –)	center console RADIO		
X18521	(10 PINS, – – –)	RH side of luggage compartment CD CHANGER		
X18723	GROUND	below LH side of dash		
X18741	(4 PINS, – – –)	center of dash MICROPHONE		
X18797	(1 PIN, NATURAL)	in RH rear side of luggage compartment		
X18798	(1 PIN, NATURAL)	in RH rear side of luggage compartment		

COMPONENT LOCATION CHART

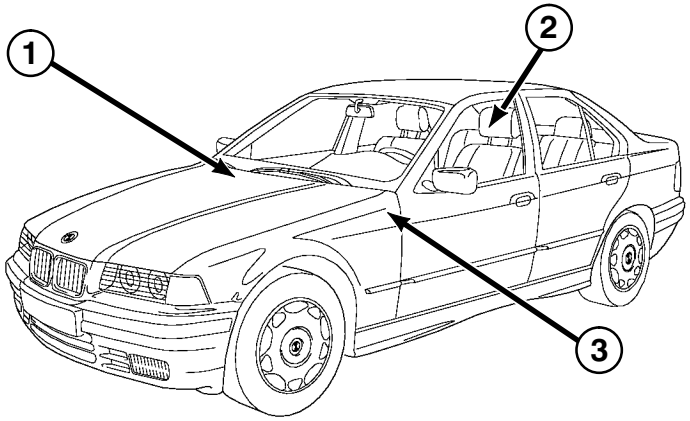
COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X18994	(3 PINS, YELLOW)	LH footwell	39-2	01-1
X19527	(16 PINS, BLACK)	below LH side of dash		08-3
X19561	(16 PINS, BLACK)	on RH side of transmission		
X62001	(4 PINS, BLACK)	under center of car (318is)	37-1	07-2
X62002	(4 PINS, BLACK)	under center of car (318is)	37-2	07-2
X62101	(4 PINS, BLACK)	top center of engine	15-3	07-2
X62102	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X62201	(4 PINS, BLACK)	top center of engine	15-3	07-2
X62202	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X90260	(3 PINS, BLACK)	RH side of steering column	04-3	01-1
Y1	ABS HYDRAULIC UNIT	rear LH side of engine compartment back of LH side shock tower	16-2	
Y1w	ABS HYDRAULIC UNIT	LH side of engine compartment		
Y2	AIR CONDITIONING COMPRESSOR	front of engine		
Y4	WATER VALVE ASSEMBLY	rear LH side of engine compartment	16-2	
Y5	DRIVER'S SIDE MIRROR	in upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	in upper RH front door		
Y19	SHIFT–LOCK	center console RH side of gearshift selector		
Y85	LH ROLLOVER PROTECTION ACTUATOR	behind rear seats Convertible	02-3	
Y86	RH ROLLOVER PROTECTION ACTUATOR	behind rear seats Convertible	02-3	
Y198	EXHAUST GAS FLAP VALVE	in LH rear side of luggage compartment	14-2	
Y199	CARBON CANISTER VALVE	in spare–wheel well	14-3	
Y6101	CYL. 1 FUEL INJECTION VALVE	top center of engine	12-3	

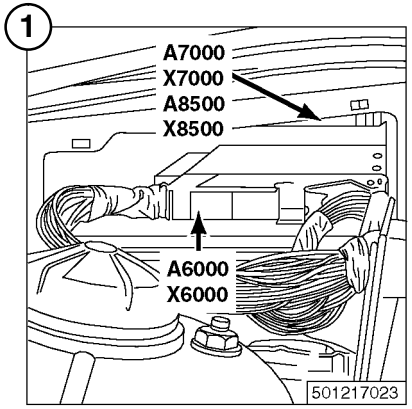
COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y6102	CYL. 2 FUEL INJECTION VALVE	top center of engine	12-3	
Y6103	CYL. 3 FUEL INJECTION VALVE	top center of engine	12-3	
Y6104	CYL. 4 FUEL INJECTION VALVE	top center of engine	12-3	
Y6105	CYL. 5 FUEL INJECTION VALVE	top center of engine	12-3	
Y6106	CYL. 6 FUEL INJECTION VALVE	top center of engine	12-3	
Y6120	EVAPORATIVE EMISSION VALVE	front LH side of engine compartment right of LH side shock tower	15-1	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment right of LH side shock tower	20-3	
Y6130	IDLE SPEED CONTROL VALVE	front of engine below intake manifold	11-3	
Y6130	IDLE SPEED CONTROL VALVE	rear LH side of engine compartment	11-2	
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	rear LH side of engine compartment	36-2	
Y6133	AIR PUMP	front of engine compartment	05-1	
Y6163	SECONDARY AIR PUMP VALVE	RH side of engine		
Y6275	VARIABLE CAMSHAFT CONTROL VALVE 1	top center of engine	12-2	
Y6550	SOLENOID VALVE (”RUNNING LOSSES”)	under LH center of car		
Y8505	TRANSMISSION VALVE UNIT	on LH side of transmission		
Y8505y	TRANSMISSION VALVE UNIT	on LH side of transmission		
Y8505y	TRANSMISSION VALVE UNIT	on RH side of transmission		
Y8521	TRANSMISSION VALVE UNIT	on RH side of transmission		

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

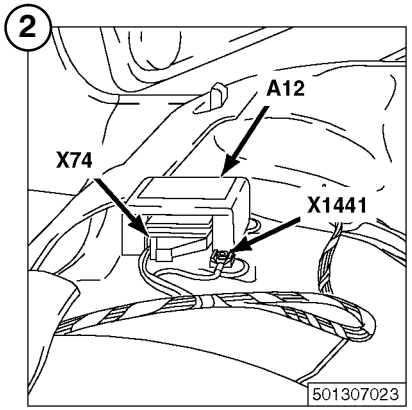




A6000 X6000
ENGINE CONTROL MODULE (DME) X7000 X8500

A7000
TRANSMISSION CONTROL MODULE (EGS)

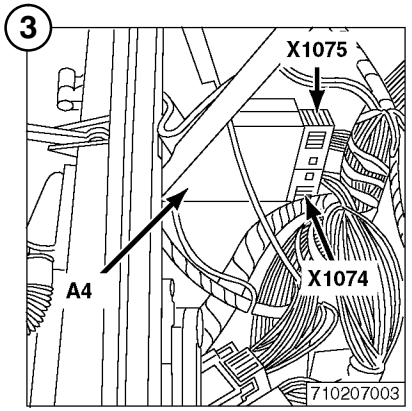
A8500
TRANSMISSION CONTROL MODULE (EGS)



A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X1441
GROUND

X74

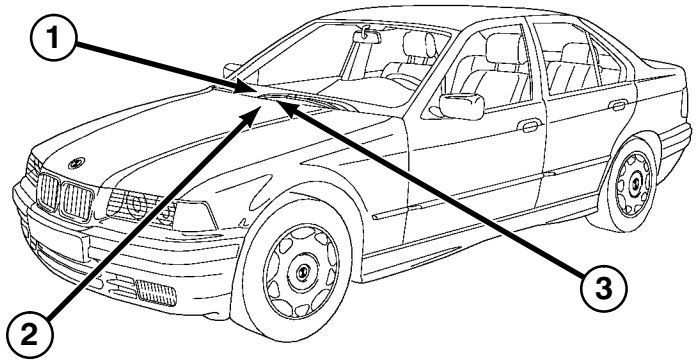


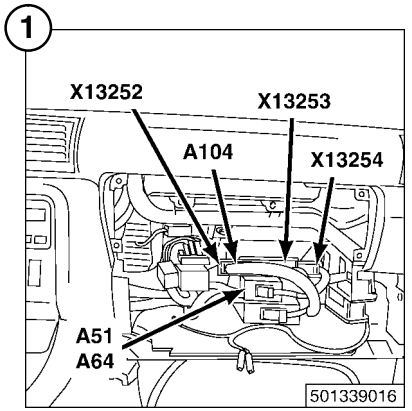
A4
CHECK CONTROL MODULE

X1074
X1075

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



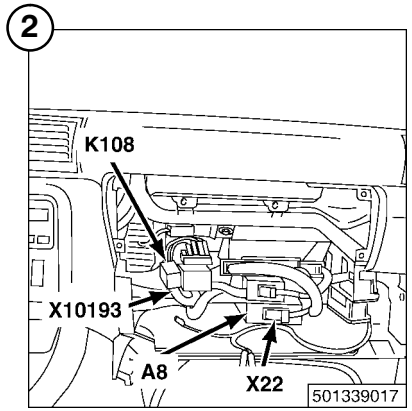


A51
WIPER/WASHER MODULE

X13252
X13253
X13254

A64
WIPER/WASHER MODULE (LOW II)

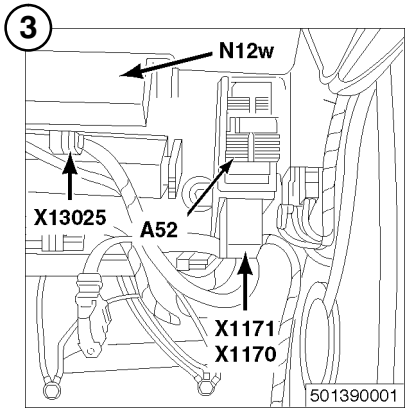
A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)



A8
CRUISE CONTROL MODULE (TEMPOMAT)

K108
HORN RELAY (ALPINE)

X22
X10193



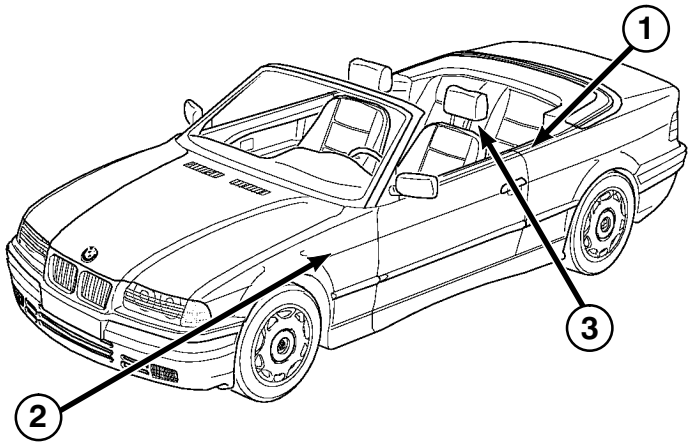
A52
SLIP CONTROL MODULE (ABS/ASC)

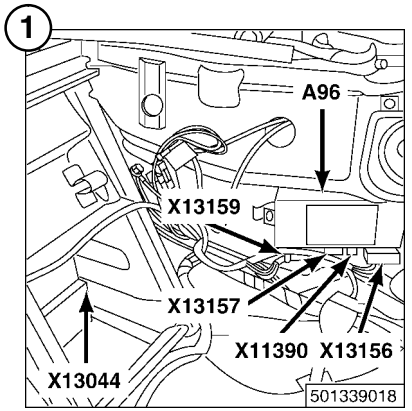
N12w
ANTI–THEFT CONTROL MODULE (ALPINE)

X1170
X1171
X13025

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

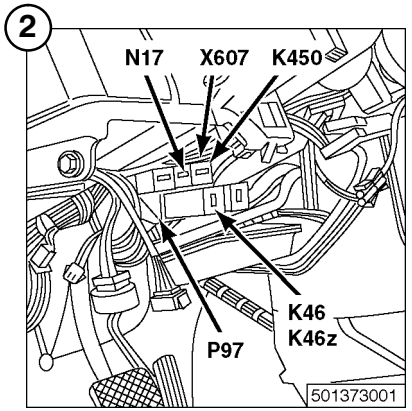




CONVERTIBLE

A96
CONVERTIBLE TOP CONTROL MODULE

X11390
X13044
X13156
X13157
X13159



K46
HIGH BEAM LIGHT RELAY

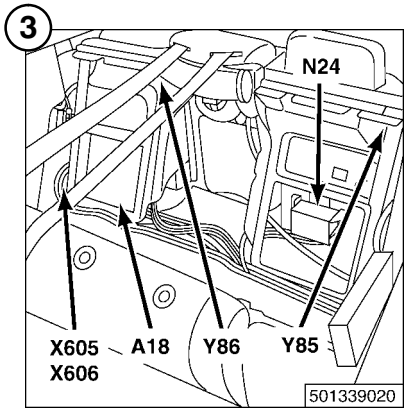
K46z
DAY LIGHT RELAY MODULE

K450
PARK VENTILATION RELAY

N17
CRASH CONTROL MODULE

P97
AUXILIARY FUSE BOX

X607



CONVERTIBLE

A18
HIFI AMPLIFIER

N24
ROLLOVER SENSOR

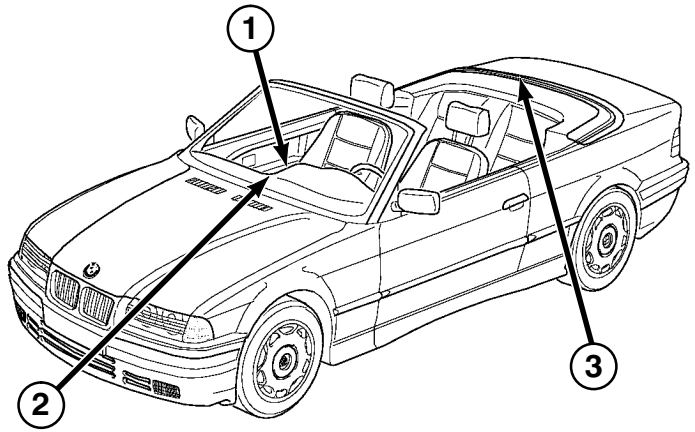
Y85
LH ROLLOVER PROTECTION ACTUATOR

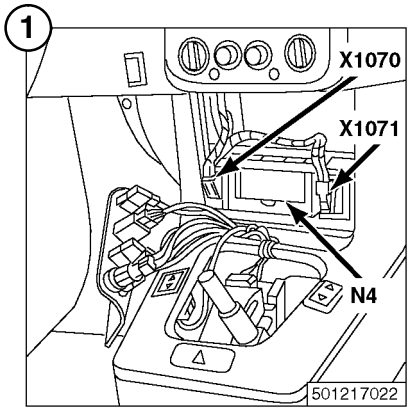
Y86
RH ROLLOVER PROTECTION ACTUATOR

X605
X606

COMPONENT LOCATION VIEWS

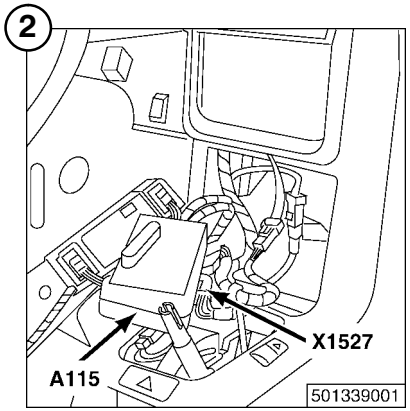
ELECTRICAL CONTROL MODULE LOCATIONS





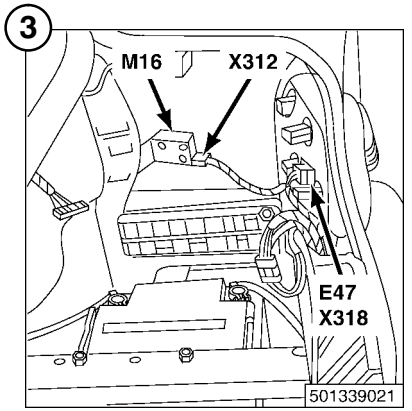
N4
ON−BOARD COMPUTER

X1070
X1071



A115
AUTOMATIC CLIMATE CONTROL MODULE

X1527



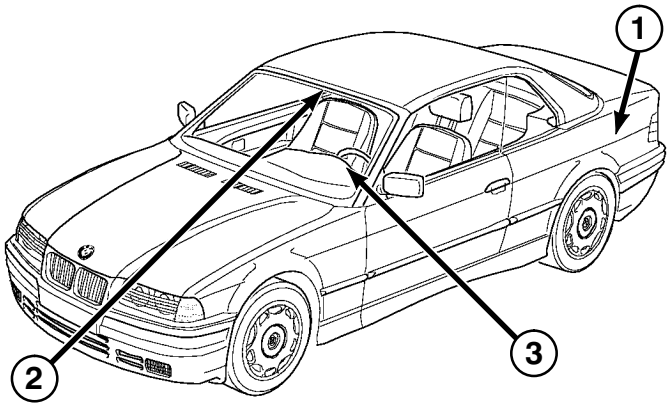
E47
RIGHT TRUNK LIGHT ASSEMBLY

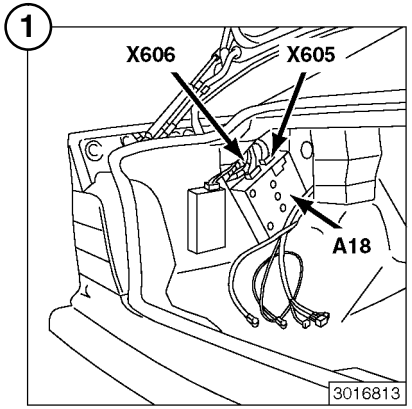
M16
GAS FILLER LOCK MOTOR

X312
X318

COMPONENT LOCATION VIEWS

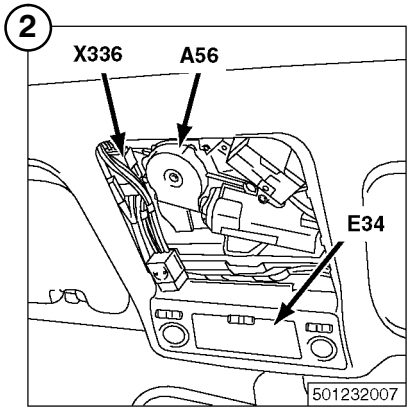
ELECTRICAL CONTROL MODULE LOCATIONS





A18
HIFI AMPLIFIER

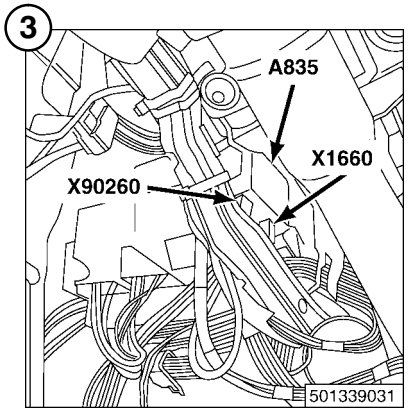
X605
X606



A56
TILT/SLIDE SUN-ROOF CONTROL ASSEMBLY

E34
FRONT DOME LIGHT/MAP READ-ING ASSEMBLY

X336

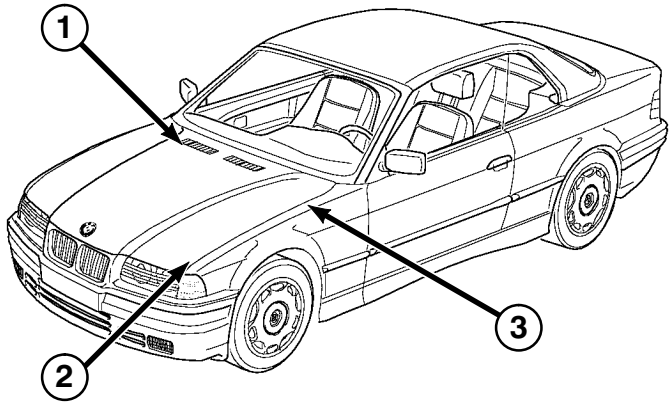


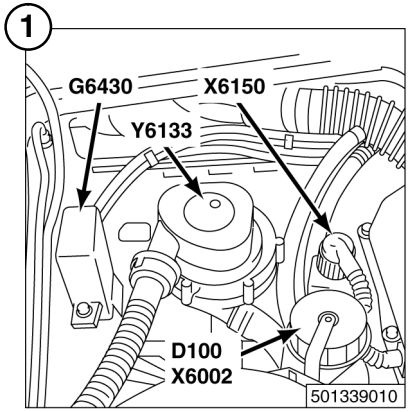
A835
TRANSMITTER MODULE (EWS II)

X1660
X90260

COMPONENT LOCATION VIEWS

B(+)



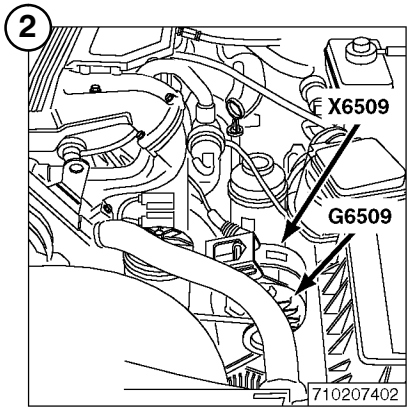


D100
DATA LINK CONNECTOR

X6002
X6150

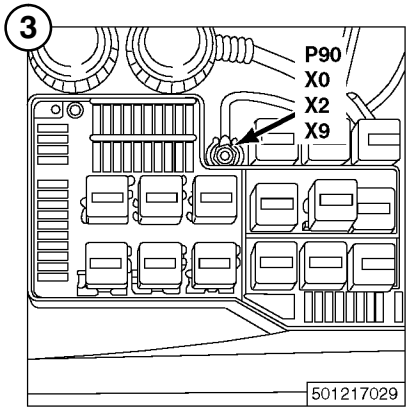
G6430
B+ JUMP START JUNCTION POINT

Y6133
AIR PUMP



G6509
GENERATOR

X6509
CABLE SOCKET ALTERNATOR B+



P90
FRONT POWER DISTRIBUTION BOX

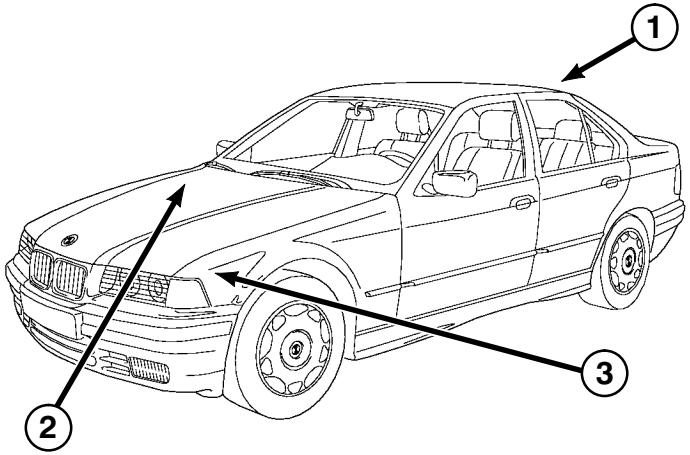
X0
B+ JUNCTION POINT

X2
BATTERY B+ START POINT

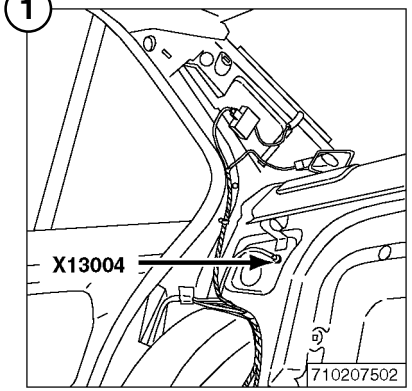
X9
B+ JUNCTION POINT

COMPONENT LOCATION VIEWS

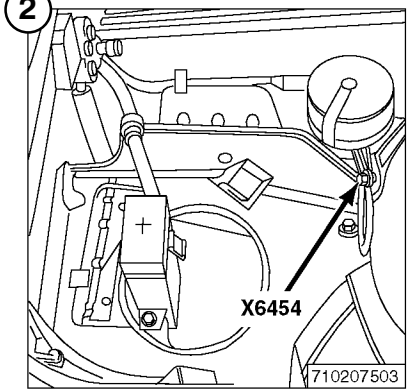
B(–)



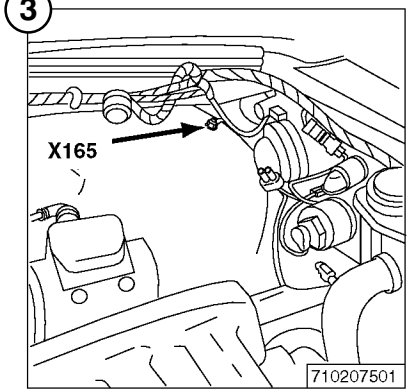
1 X13004
GROUND



2 X6454
GROUND

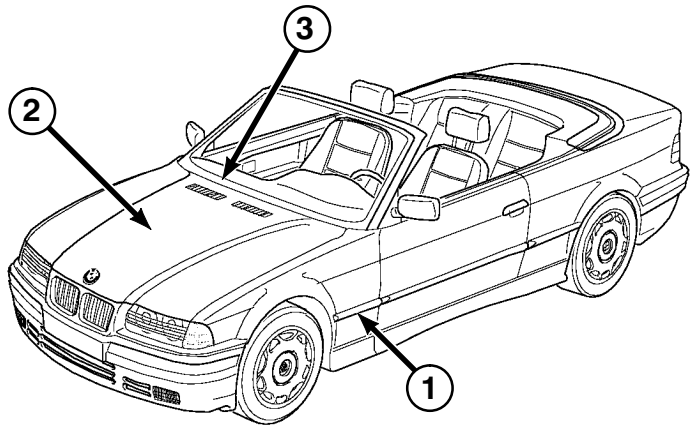


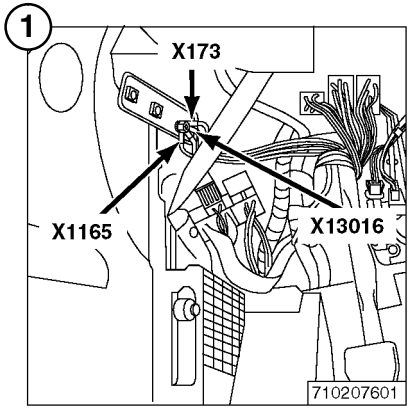
3 X165
GROUND



COMPONENT LOCATION VIEWS

B(–)

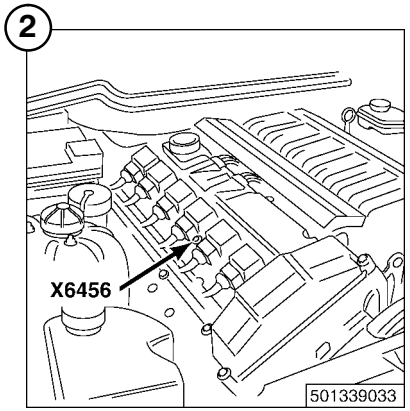




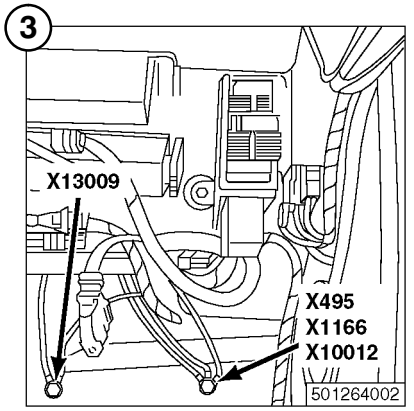
X173
GROUND

X1165
GROUND

X13016
GROUND



X6456
GROUND



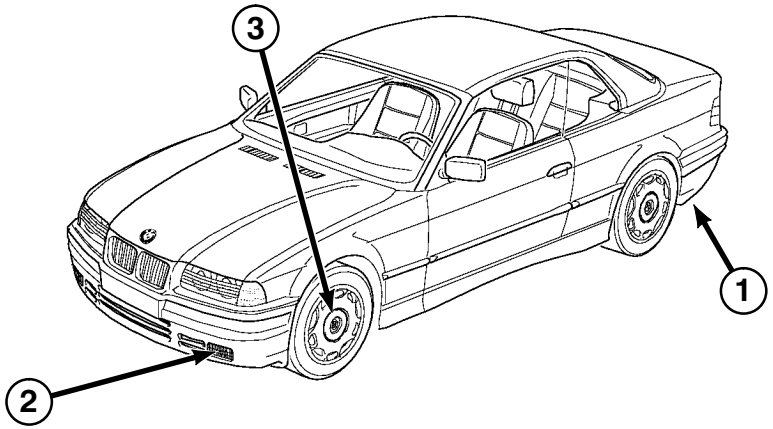
X495
GROUND

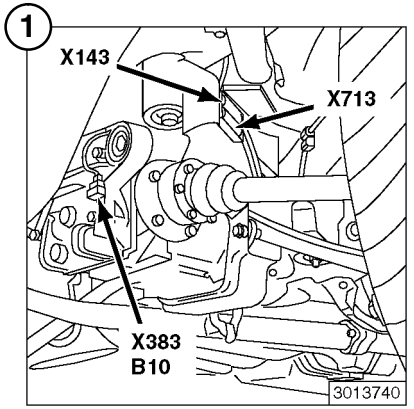
X1166
GROUND

X10012
GROUND

X13009
GROUND

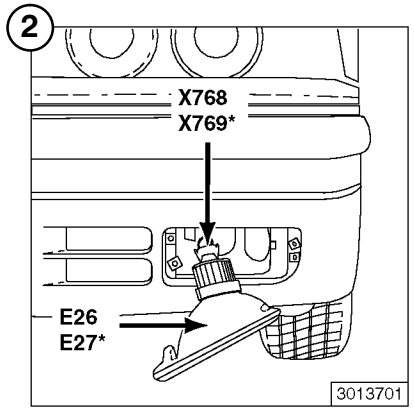
COMPONENT LOCATION VIEWS





B10
VEHICLE SPEED SENSOR

X143
X383
X713

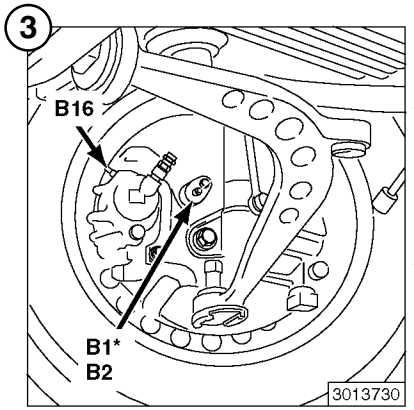


E26
LEFT FOG LIGHT

E27 *
RIGHT FOG LIGHT

X768
X769 *

* RH SIMILAR



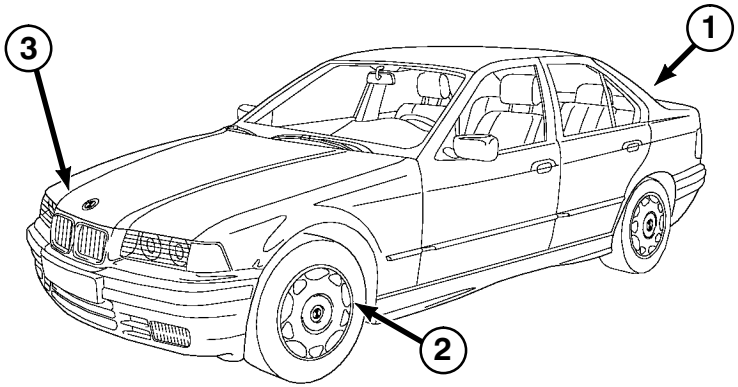
B1 *
RIGHT FRONT SPEED SENSOR – ABS

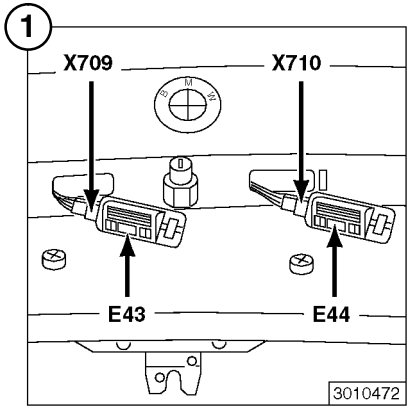
B2
LEFT FRONT SPEED SENSOR – ABS

B16
LEFT FRONT BRAKE PAD SENSOR

* RH SIMILAR

COMPONENT LOCATION VIEWS

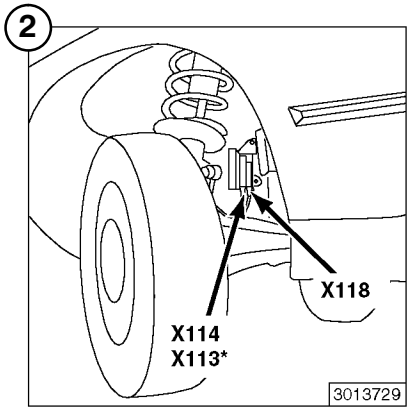




E43
LEFT LICENSE PLATE LIGHT

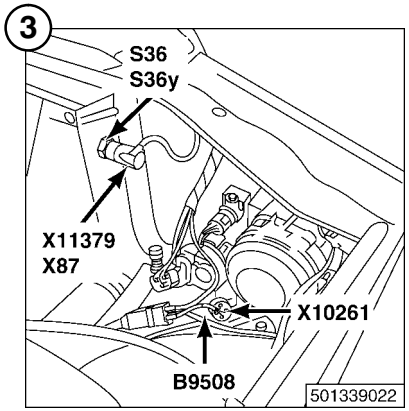
E44
RIGHT LICENSE PLATE LIGHT

X709
X710



X113 *
X114
X118

* RH SIMILAR



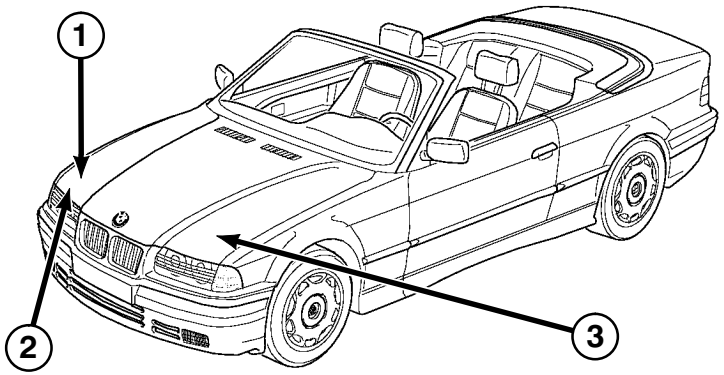
B9508
PRESSURE SWITCH

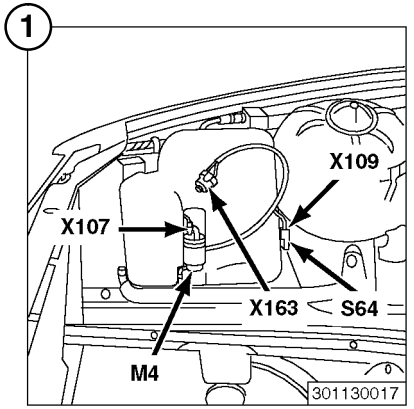
S36
TEMPERATURE SWITCH

S36y
DOUBLE TEMPERATURE SWITCH

X87
X10261
X11379

COMPONENT LOCATION VIEWS

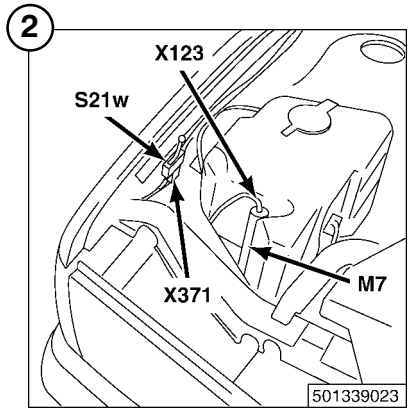




1 M4
WASHER PUMP

S64
WASHER FLUID
LEVEL SWITCH

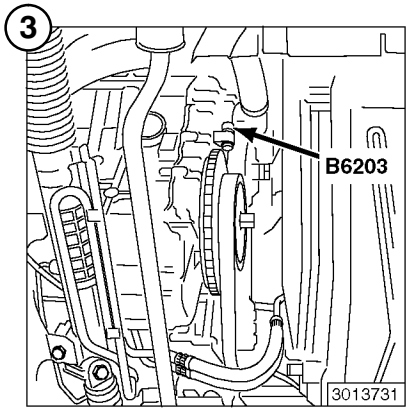
X107
X109
X163



2 M7
HEADLIGHT/FOG
LIGHT WASHER
PUMP

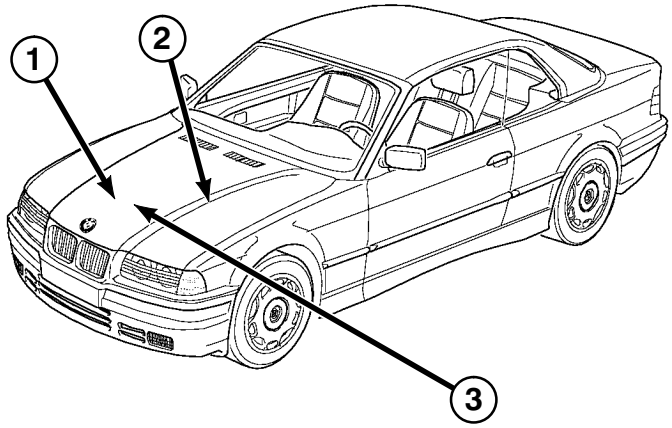
S21w
ENGINE HOOD
SWITCH

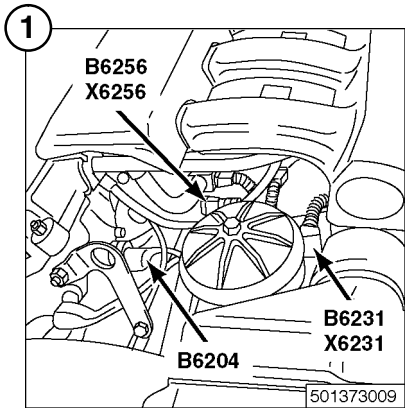
X123
X371



3 B6203
CRANKSHAFT PO-
SITION/RPM SEN-
SOR

COMPONENT LOCATION VIEWS

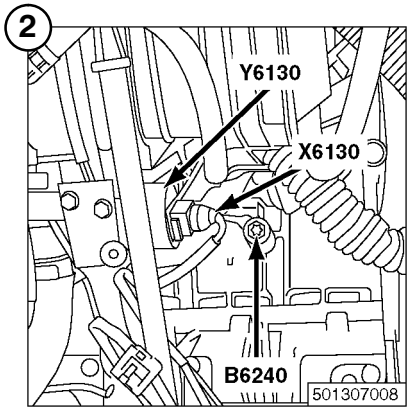




B6204 X6231
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) X6256

B6231
OIL PRESSURE SWITCH

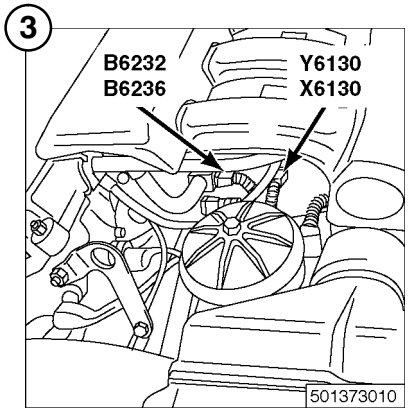
B6256
DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)



B6240
KNOCK SENSOR

Y6130
IDLE SPEED CONTROL VALVE

X6130

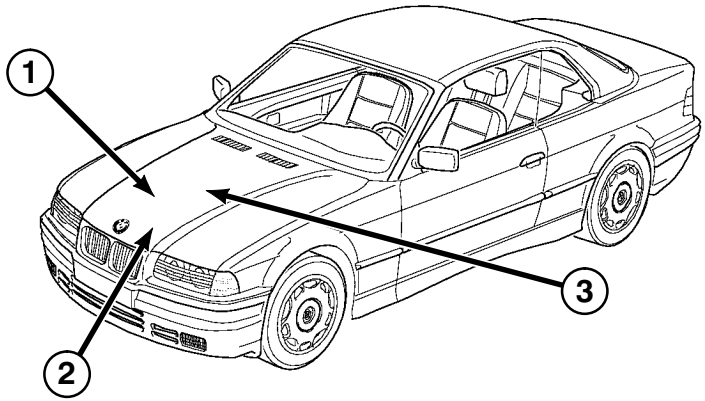


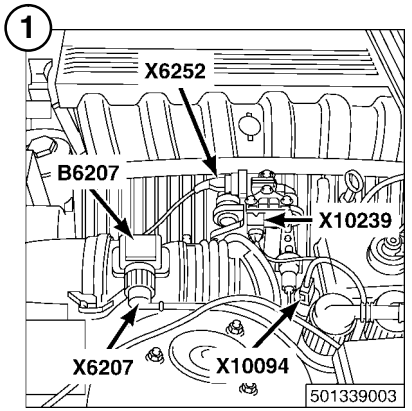
B6232 X6130
ENGINE COOLANT TEMPERATURE SENSOR

B6236
ENGINE COOLANT TEMPERATURE SENSOR

Y6130
IDLE SPEED CONTROL VALVE

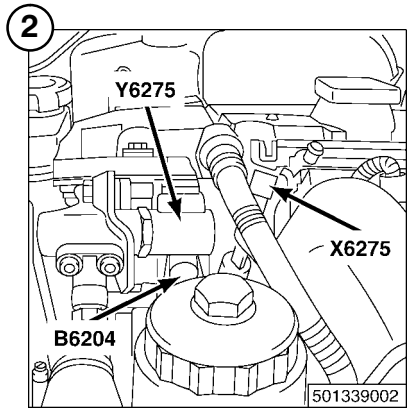
COMPONENT LOCATION VIEWS





B6207
HOT FILM AIR MASS METER

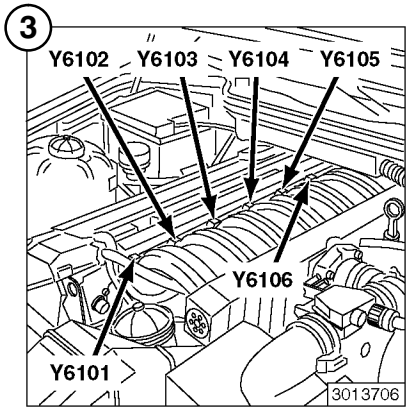
X6207
X6252
X10094
X10239



B6204
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)

Y6275
VARIABLE CAMSHAFT CONTROL VALVE 1

X6275



Y6101
CYL. 1 FUEL INJECTION VALVE

Y6102
CYL. 2 FUEL INJECTION VALVE

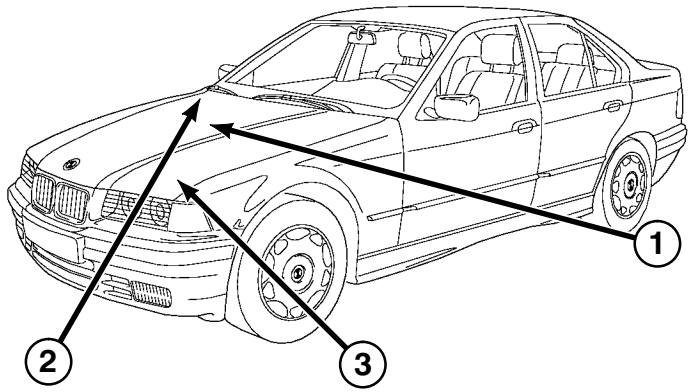
Y6103
CYL. 3 FUEL INJECTION VALVE

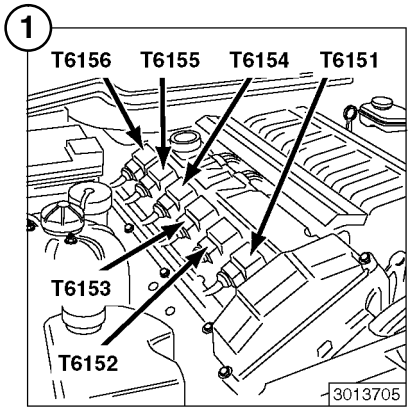
Y6104
CYL. 4 FUEL INJECTION VALVE

Y6105
CYL. 5 FUEL INJECTION VALVE

Y6106
CYL. 6 FUEL INJECTION VALVE

COMPONENT LOCATION VIEWS





T6151
CYL. 1 IGNITION COIL

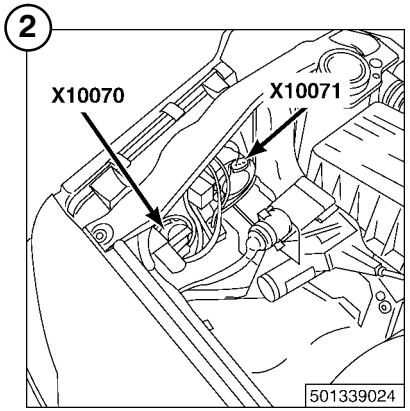
T6152
CYL. 2 IGNITION COIL

T6153
CYL. 3 IGNITION COIL

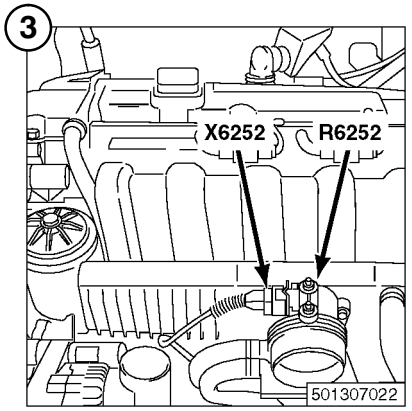
T6154
CYL. 4 IGNITION COIL

T6155
CYL. 5 IGNITION COIL

T6156
CYL. 6 IGNITION COIL



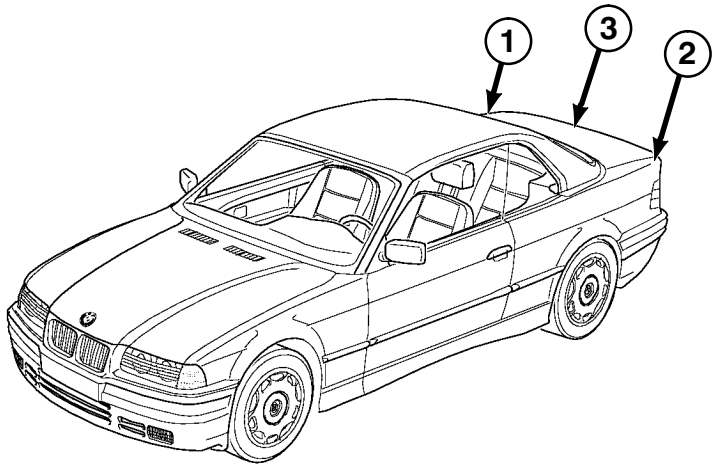
X10070
X10071

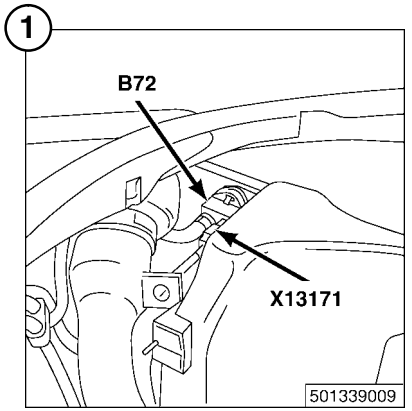


R6252
THROTTLE POSITION SENSOR

X6252

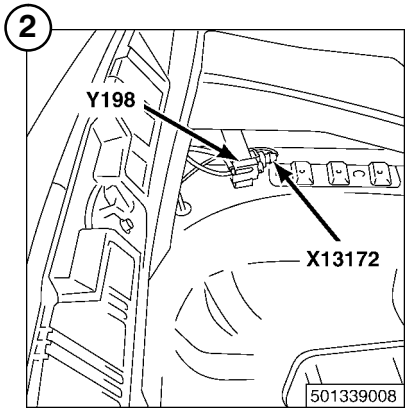
COMPONENT LOCATION VIEWS





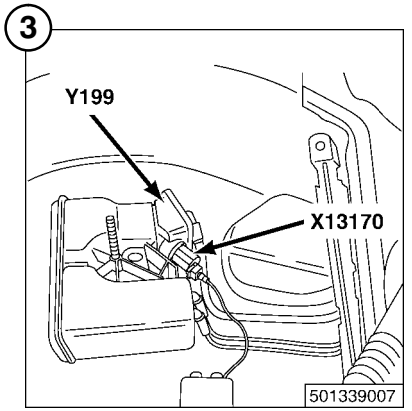
B72
FUEL TANK
PRESSURE SEN-
SOR

X13171



Y198
EXHAUST GAS
FLAP VALVE

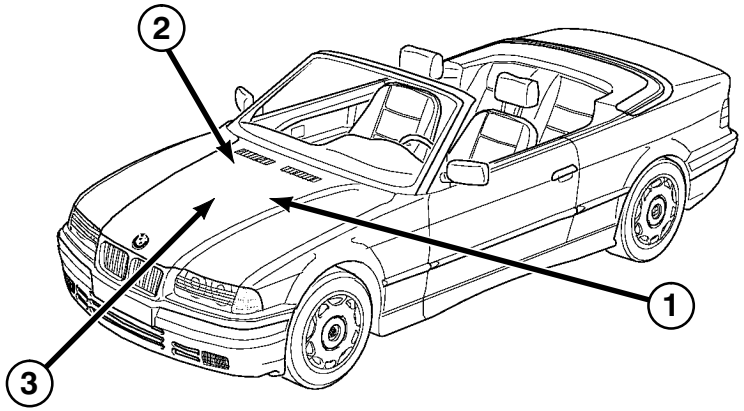
X13172

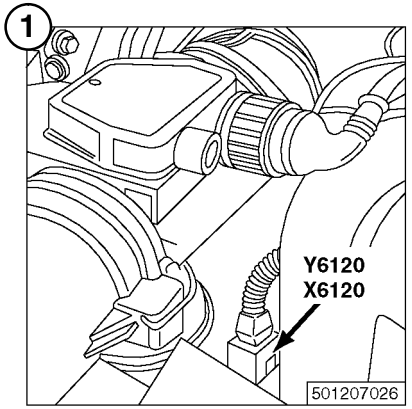


Y199
CARBON CAN-
ISTER VALVE

X13170

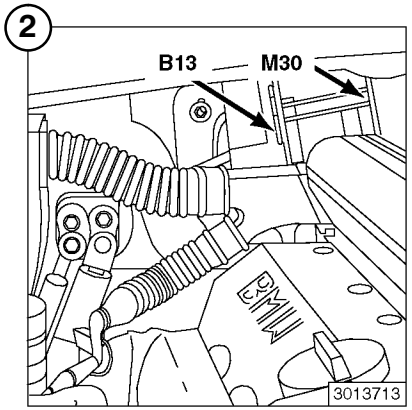
COMPONENT LOCATION VIEWS





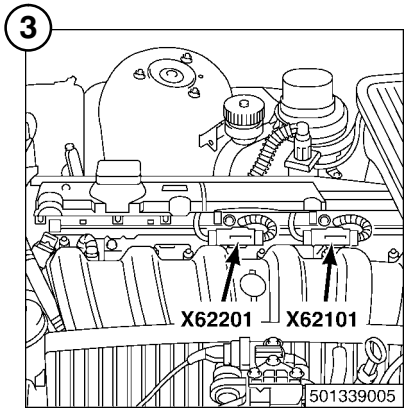
1 Y6120
EVAPORATIVE
EMISSION VALVE

X6120



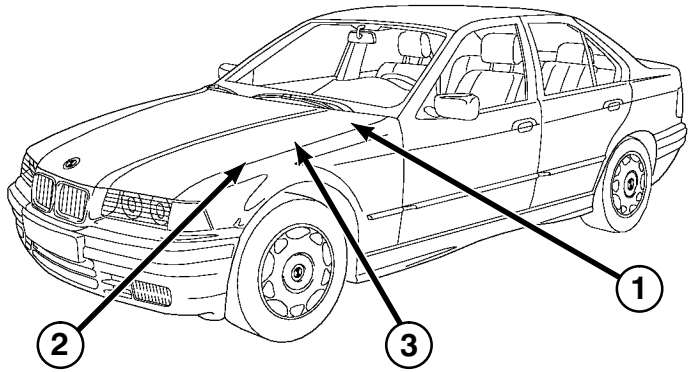
2 B13
OUTSIDE TEMPER-
ATURE SENSOR

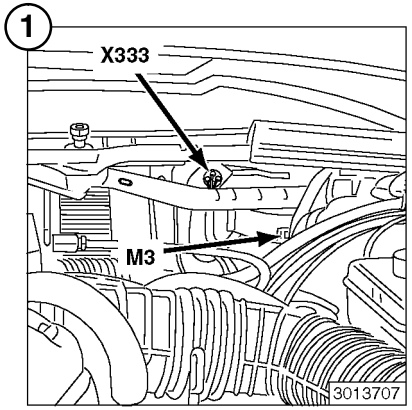
M30
BLOWER MOTOR



3 X62101
X62201

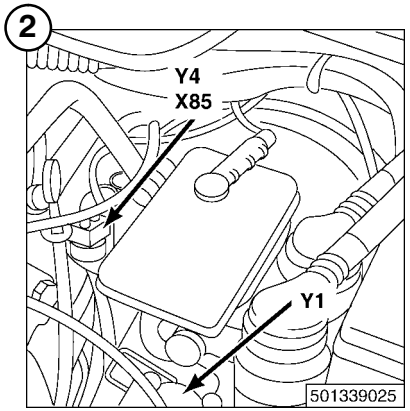
COMPONENT LOCATION VIEWS





1 M3
WIPER MOTOR

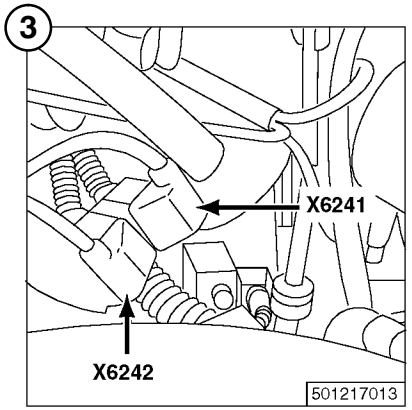
X333



2 Y1
ABS HYDRAULIC UNIT

Y4
WATER VALVE ASSEMBLY

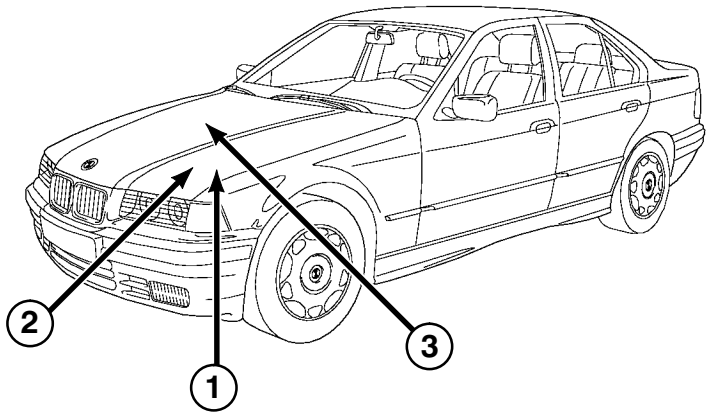
X85

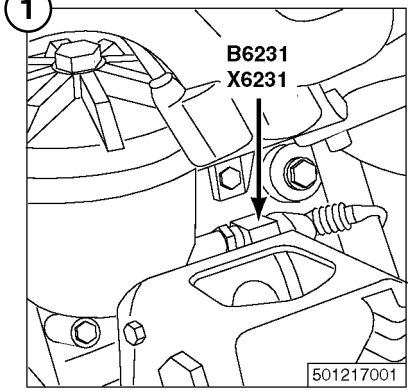


3 X6241
X6242

318is

COMPONENT LOCATION VIEWS

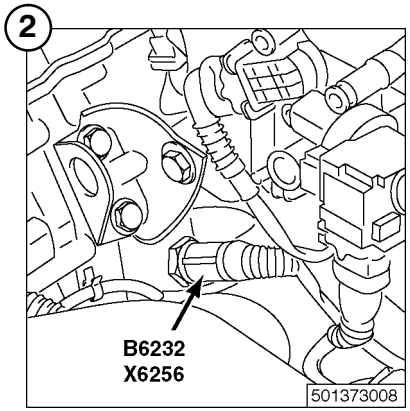




B6231
OIL PRESSURE SWITCH

X6231

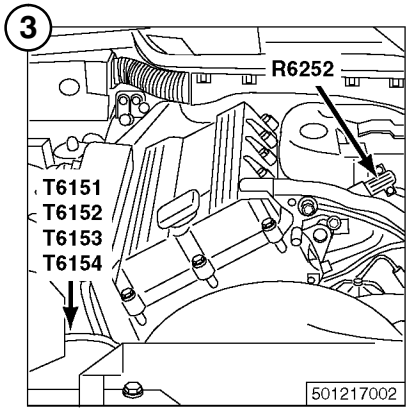
318is



B6232
ENGINE COOLANT TEMPERATURE SENSOR

X6256

318is



R6252
THROTTLE POSITION SENSOR

T6151
CYL. 1 IGNITION COIL

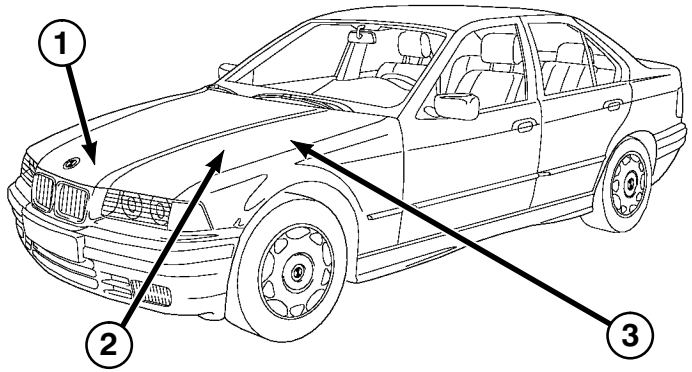
T6152
CYL. 2 IGNITION COIL

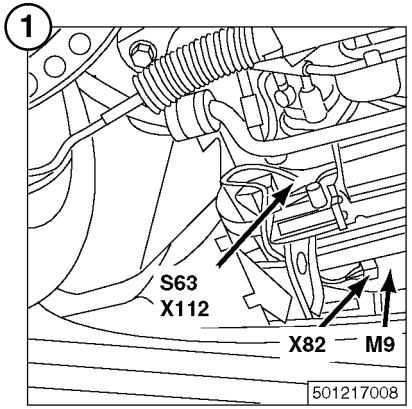
T6153
CYL. 3 IGNITION COIL

T6154
CYL. 4 IGNITION COIL

318is

COMPONENT LOCATION VIEWS



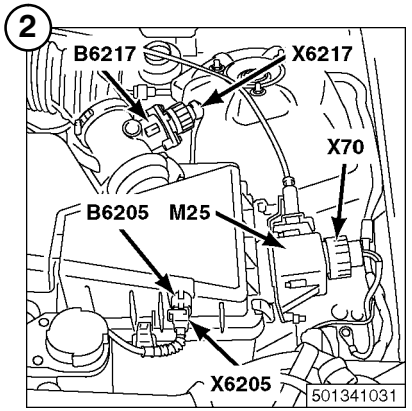


318is

M9
AUXILIARY FAN MOTOR

S63
ENGINE COOLANT LEVEL SWITCH

X82
X112

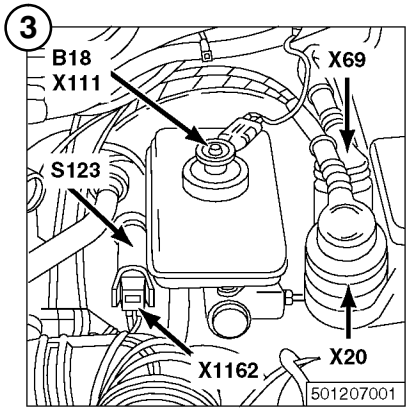


B6205
INTAKE AIR TEMPERATURE SENSOR

X70
X6205
X6217

B6217
HOT FILM AIR MASS METER

M25
CRUISE CONTROL ACTUATOR (TEMPOMAT)

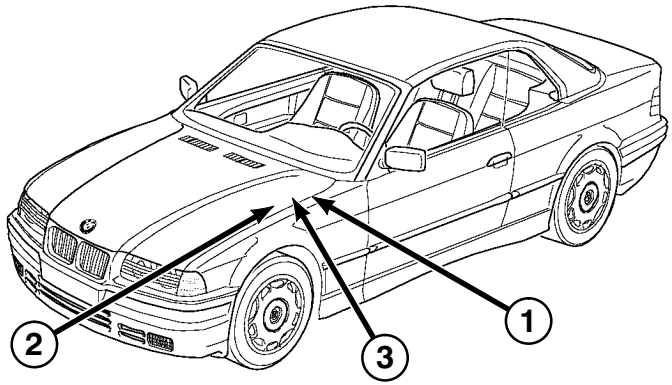


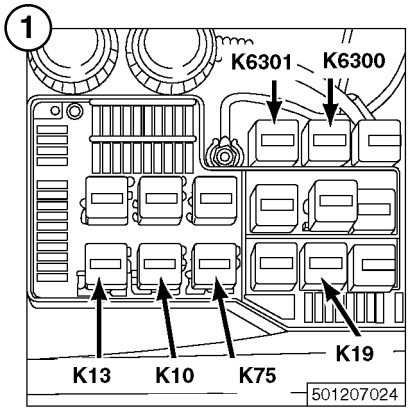
B18
BRAKE FLUID LEVEL SWITCH

S123
ABS PEDAL TRAVEL SENSOR

X20
X69
X111
X1162

COMPONENT LOCATION VIEWS





K10
ABS RELAY

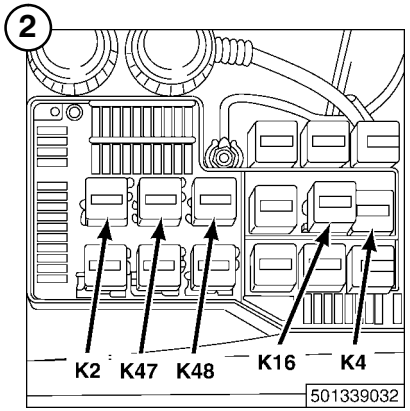
K75
ABS PUMP MOTOR RELAY

K13
REAR DEFOGGER RELAY

K6300
ENGINE CONTROL MODULE RELAY

K19
COMPRESSOR CONTROL RELAY

K6301w
FUEL PUMP RELAY



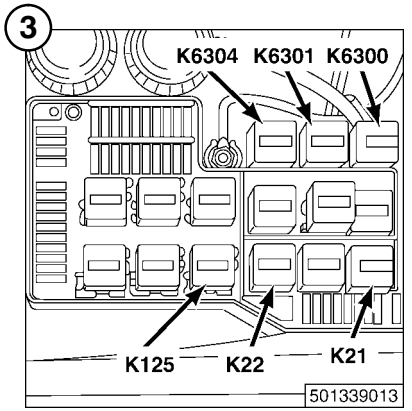
K2
HORN RELAY

K47
FRONT FOG LIGHT RELAY

K4
BLOWER RELAY

K48
LOW BEAM LIGHT RELAY

K16
HAZARD FLASHER RELAY



K21
NORMAL SPEED RELAY

K6300
ENGINE CONTROL MODULE RELAY

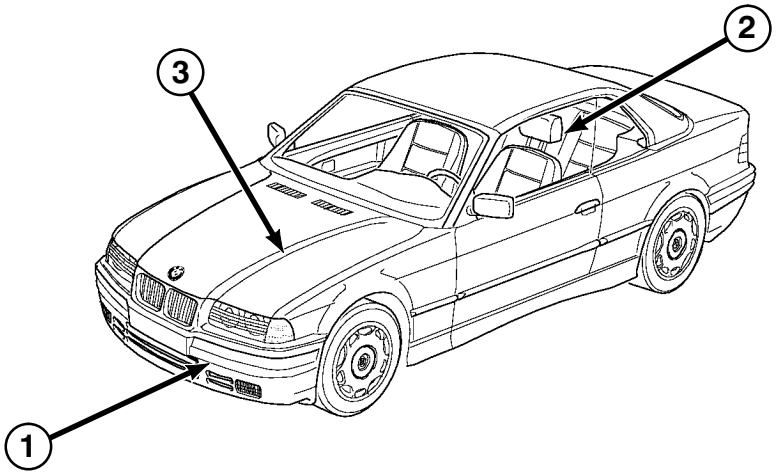
K22
HIGH SPEED RELAY

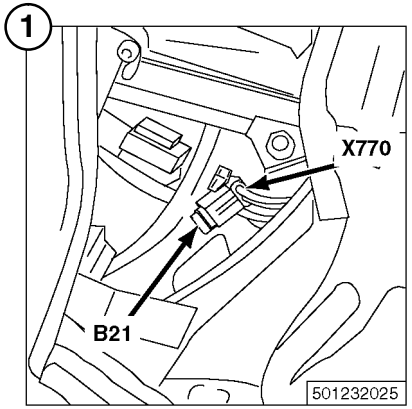
K6301
CYL. 1–6 FUEL PUMP RELAY

K125
ABS PUMP MOTOR RELAY, TIMED

K6304
SECONDARY AIR PUMP RELAY

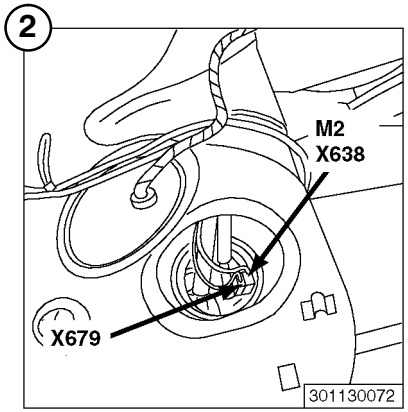
COMPONENT LOCATION VIEWS





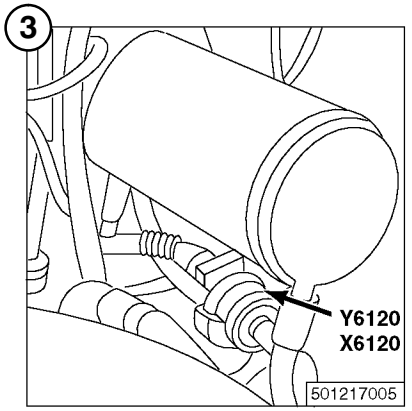
B21
ON−BOARD COMPUTER TEMPERATURE SENSOR

X770



M2
FUEL PUMP

X638
X679

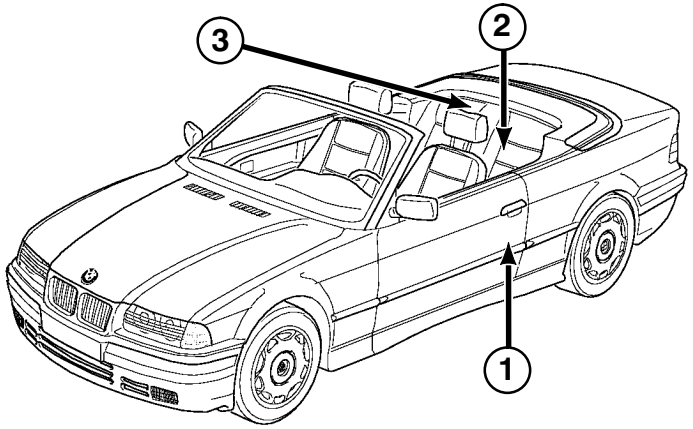


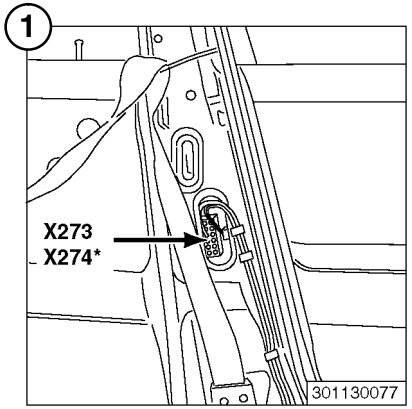
Y6120
EVAPORATIVE EMISSION VALVE

X6120

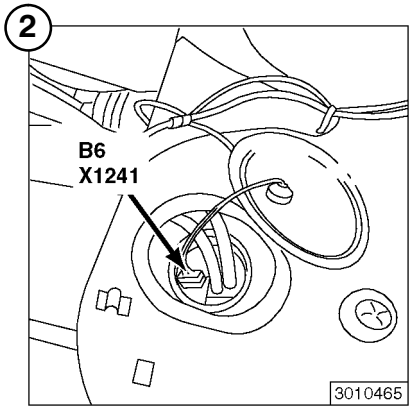
318is

COMPONENT LOCATION VIEWS



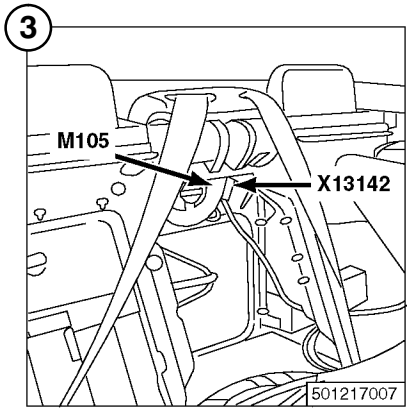


X273
X274



B6
FUEL LEVEL SENSOR

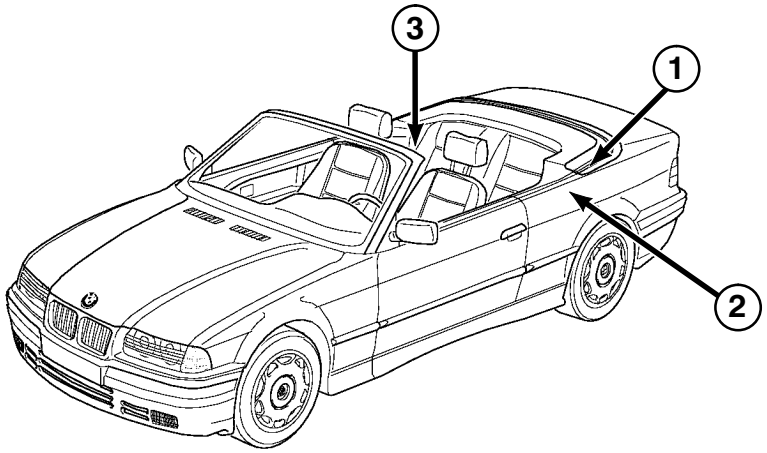
X1241

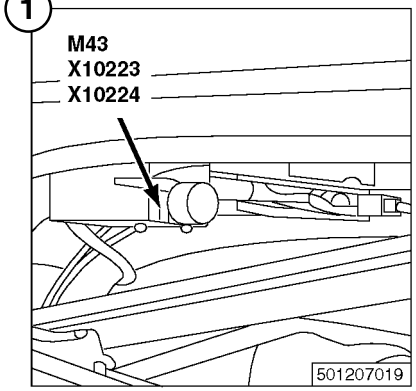


M105
REAR WINDOW BLOWER

X13142

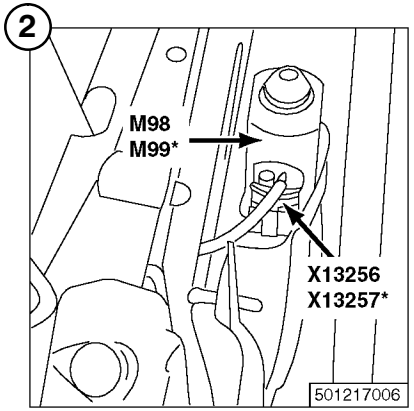
COMPONENT LOCATION VIEWS





M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

X10223
X10224

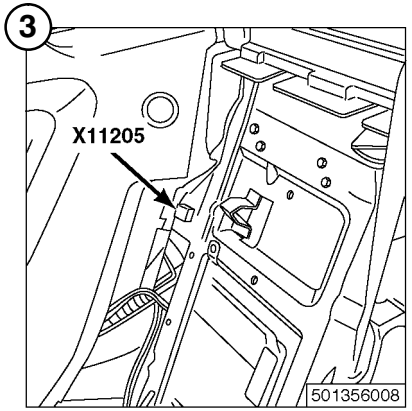


M98
LEFT REAR WIN-
DOW MOTOR

M99 *
RIGHT REAR WIN-
DOW MOTOR

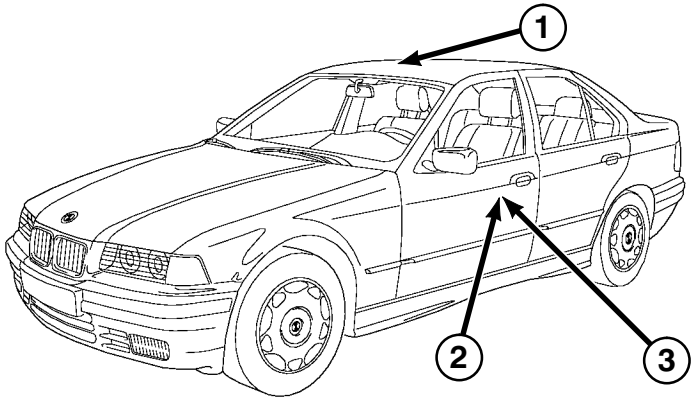
X13256
X13257 *

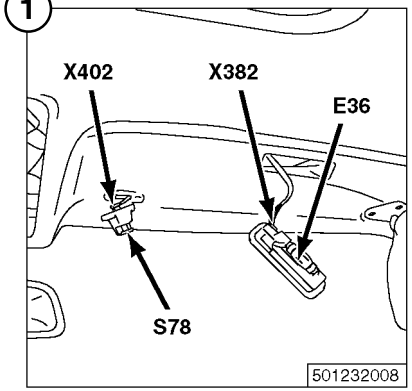
* RH SIMILAR



X11205

COMPONENT LOCATION VIEWS

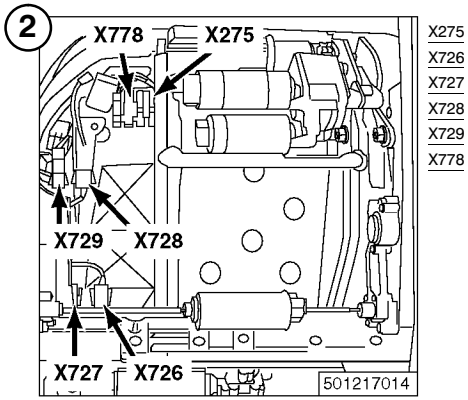




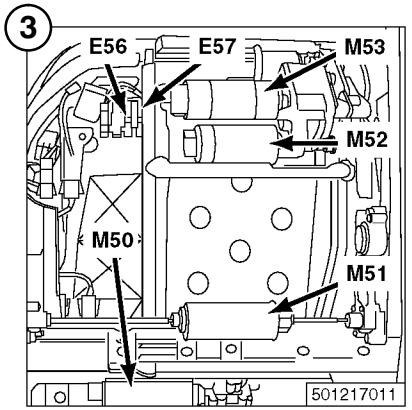
E36
PASSENGER'S MAKE–UP MIRROR LIGHT

S78
PASSENGER'S MAKE–UP MIRROR SWITCH

X382
X402



X275
X726
X727
X728
X729
X778



E56
DRIVER'S SEAT-BACK HEATER

E57
DRIVER'S SEAT HEATER

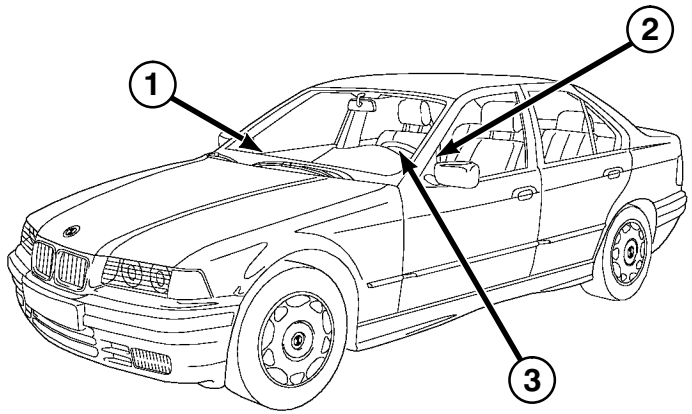
M50
DRIVER'S SEAT CUSHION TILT MOTOR

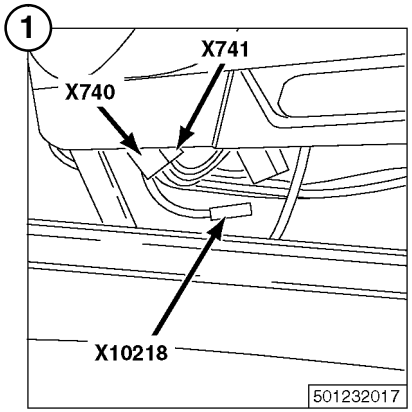
M51
DRIVER'S SEAT MOVEMENT MOTOR

M52
DRIVER'S SEAT HEIGHT MOTOR

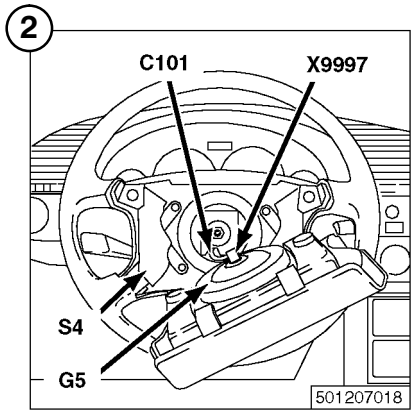
M53
DRIVER'S SEAT-BACK RECLINER MOTOR

COMPONENT LOCATION VIEWS





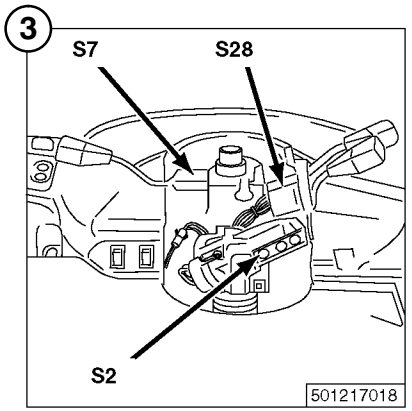
X740
X741
X10218



C101 X9997
CONTACT RING

G5
DRIVER'S AIR BAG
GAS GENERATOR

S4
HORN SWITCH

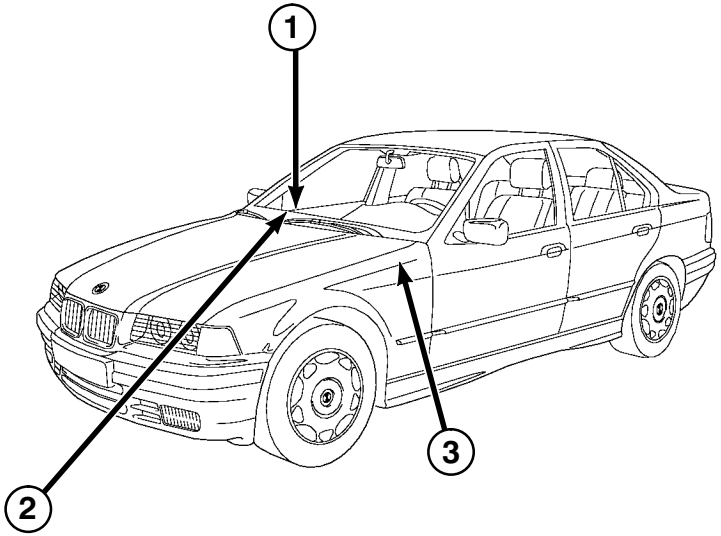


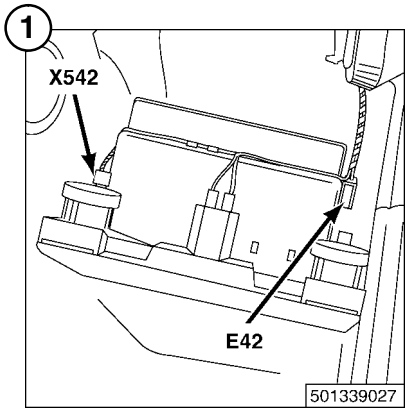
S2
IGNITION SWITCH

S7
COMBINATION
SWITCH

S28
CRUISE CONTROL
SWITCH

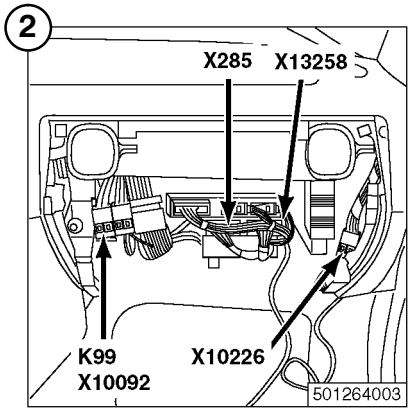
COMPONENT LOCATION VIEWS





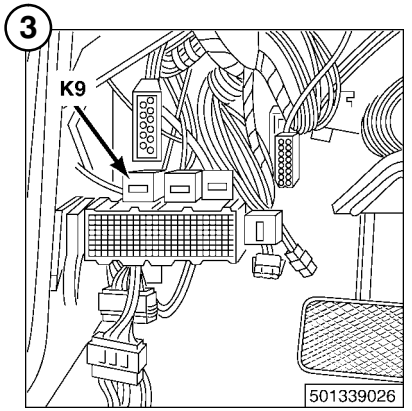
E42
GLOVE BOX LIGHT

X542



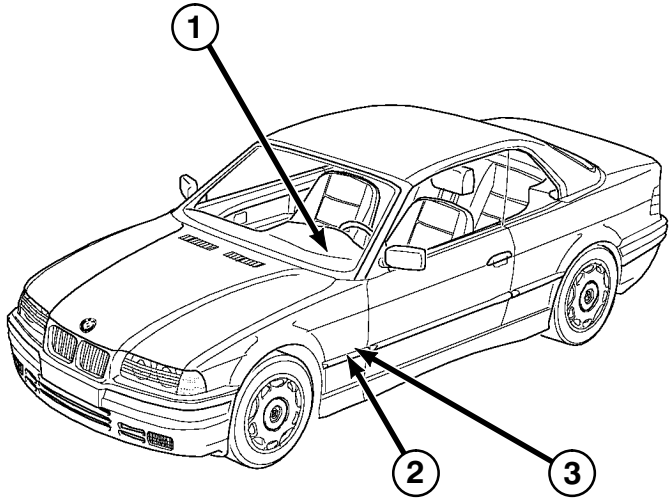
K99
REAR WINDOW
BLOWER RELAY

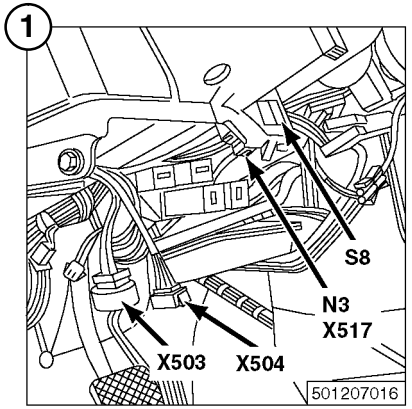
X285
X10092
X10226
X13258



K9
UNLOADER RELAY,
TERMINAL 15

COMPONENT LOCATION VIEWS

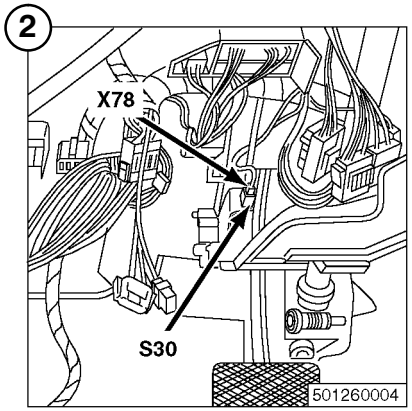




N3
DIMMER

S8
LIGHT SWITCH

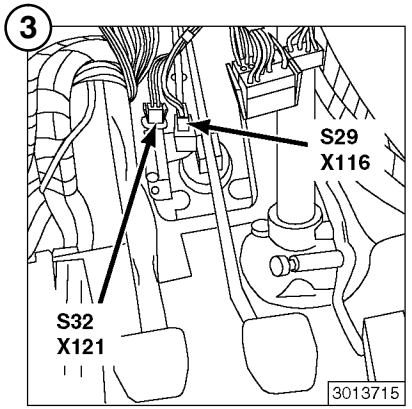
X503
X504
X517



S30
BRAKE LIGHT
SWITCH

X78

AUTOMATIC



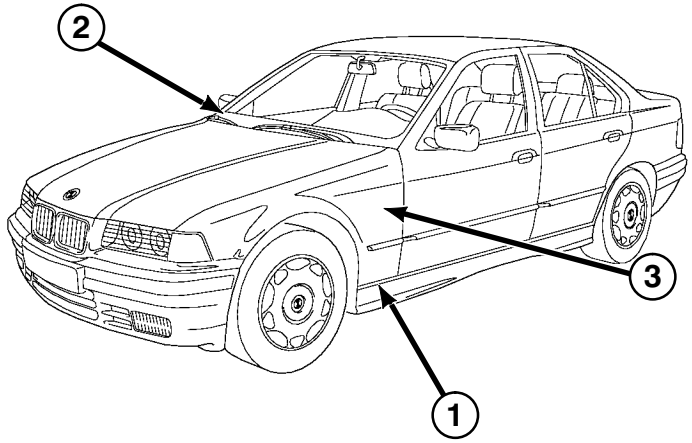
S29
BRAKE LIGHT
SWITCH

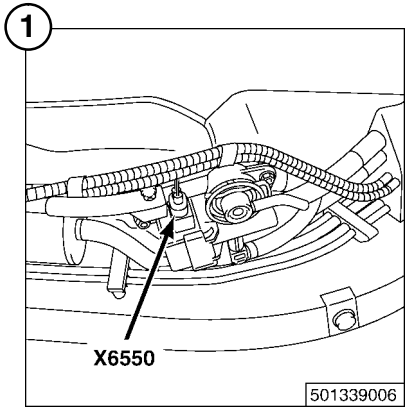
S32
CLUTCH SWITCH

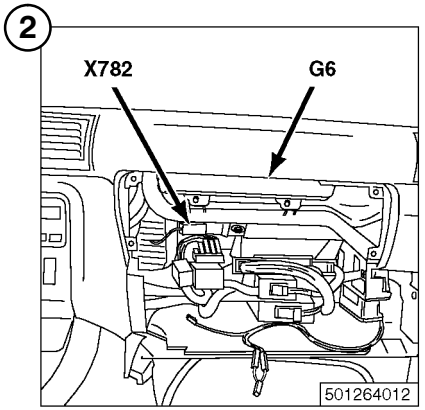
X116
X121

MANUAL

COMPONENT LOCATION VIEWS

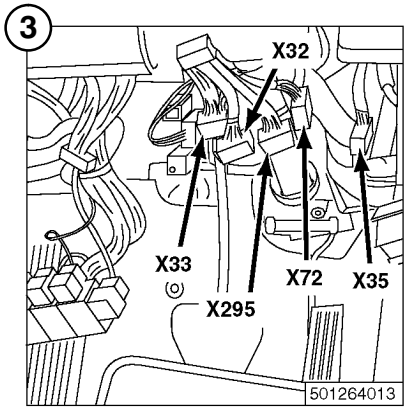






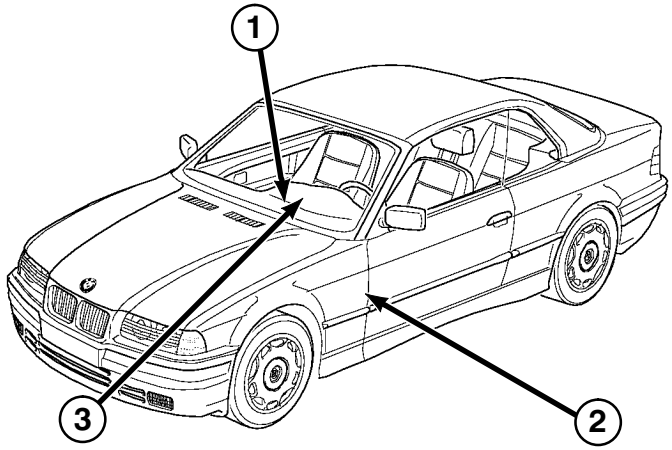
2 G6
PASSENGER'S AIR BAG GAS GENERATOR

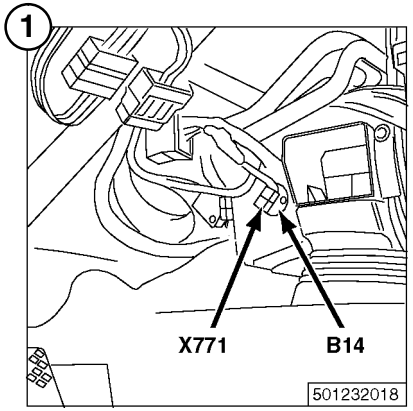
X782



X32
X33
X35
X72
X295

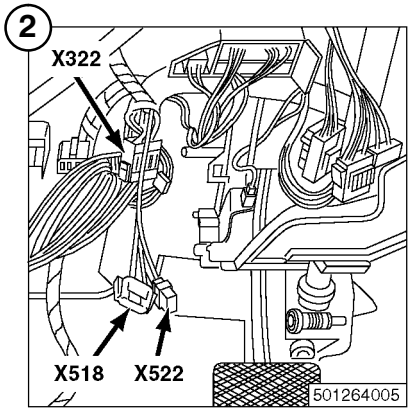
COMPONENT LOCATION VIEWS



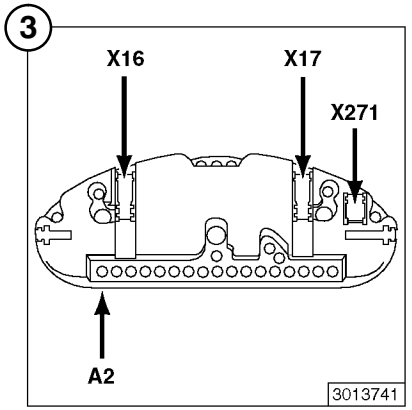


B14
EVAPORATOR
TEMPERATURE
SENSOR

X771
X10054



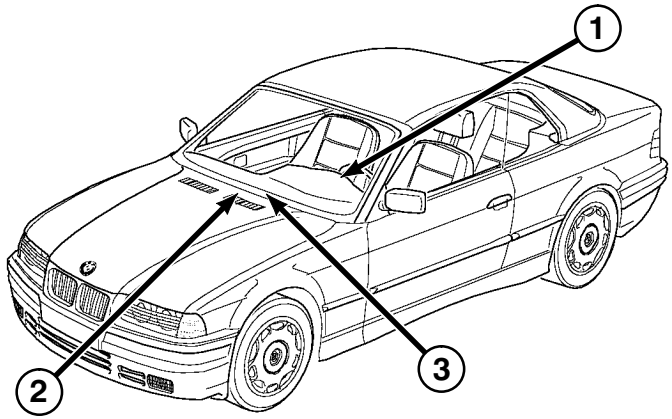
X322
X518
X522

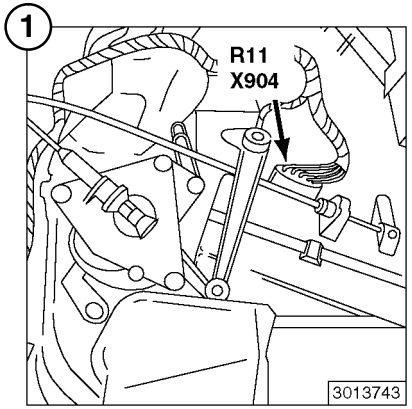


A2
INSTRUMENT
CLUSTER

X16
X17
X271

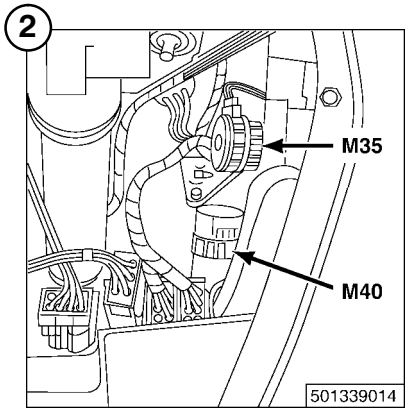
COMPONENT LOCATION VIEWS





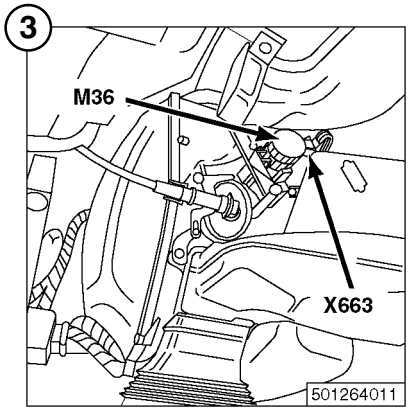
R11
BLOWER RESISTORS

X904



M35
DEFROSTER FLAP MOTOR

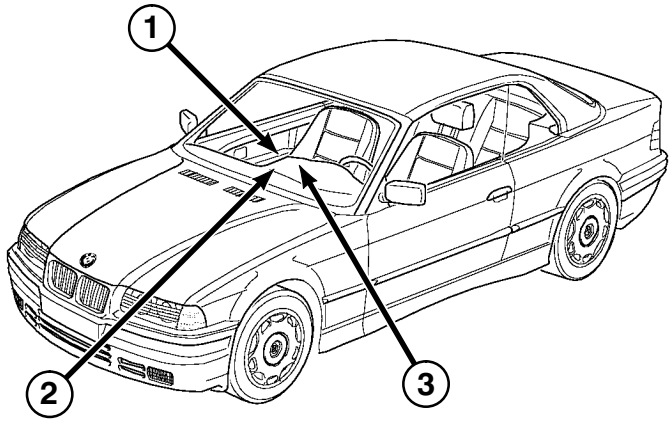
M40
RECIRCULATION FLAP MOTOR

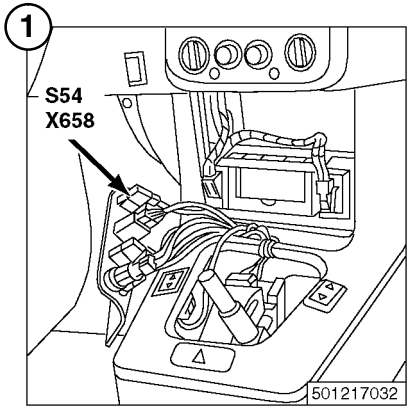


M36
FRESH AIR FLAP MOTOR

X663

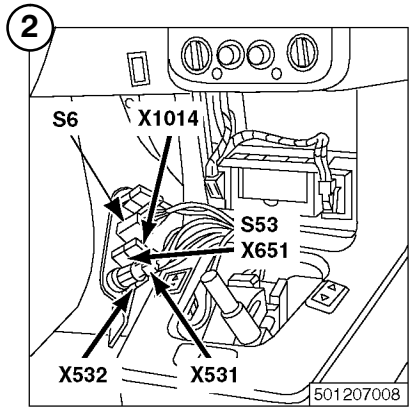
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

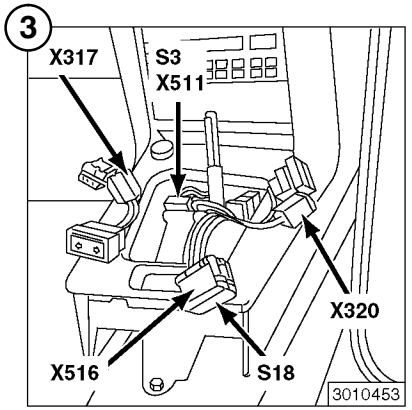
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014

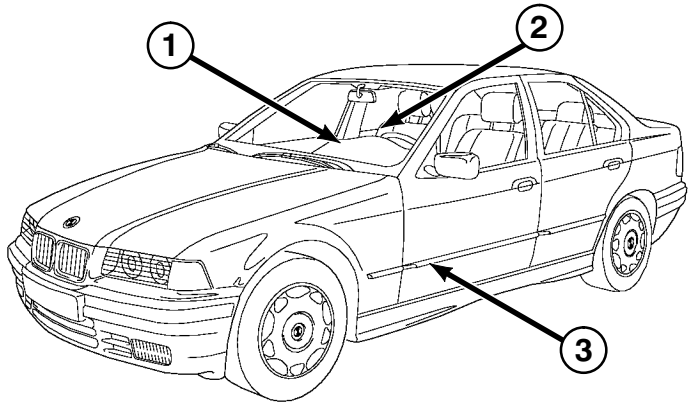


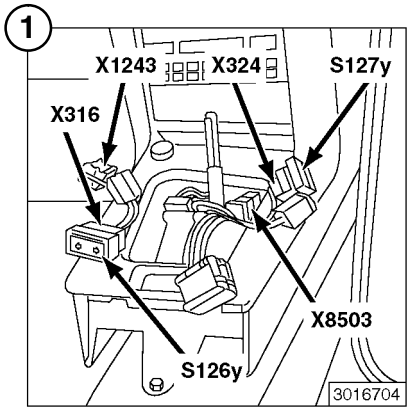
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

S18
HAZARD SWITCH

X317
X320
X511
X516

COMPONENT LOCATION VIEWS

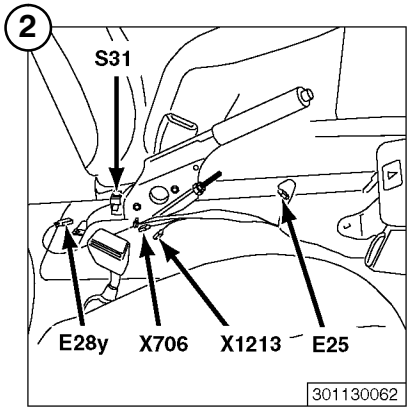




S126y
DRIVER'S POWER WINDOW SWITCH

S127y
PASSENGER'S POWER WINDOW SWITCH

X316
X324
X1243
X8503

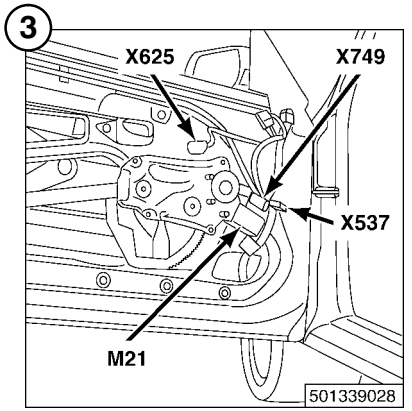


E25
FRONT ASHTRAY LIGHT

X706
X1213

E28y
REAR ASHTRAY LIGHT

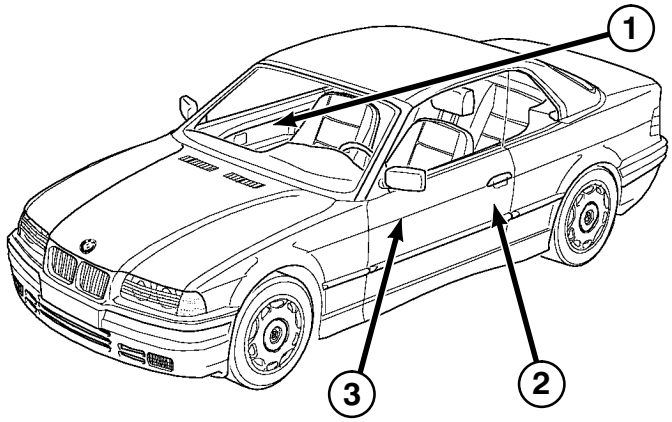
S31
PARK BRAKE SWITCH

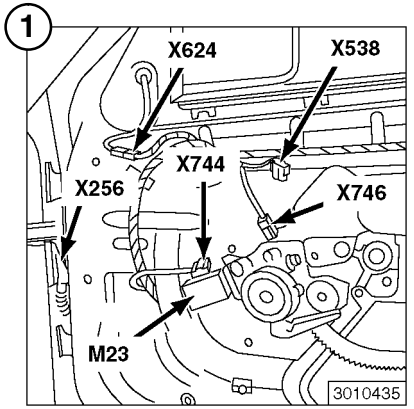


M21
DRIVER'S WINDOW MOTOR

X537
X625
X749

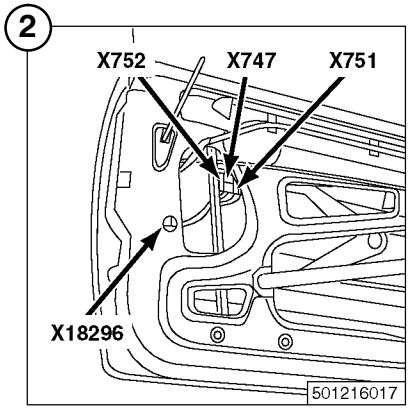
COMPONENT LOCATION VIEWS



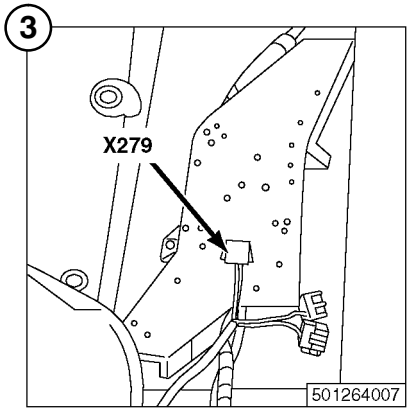


M23
PASSENGER'S
WINDOW MOTOR

X256
X538
X624
X744
X746

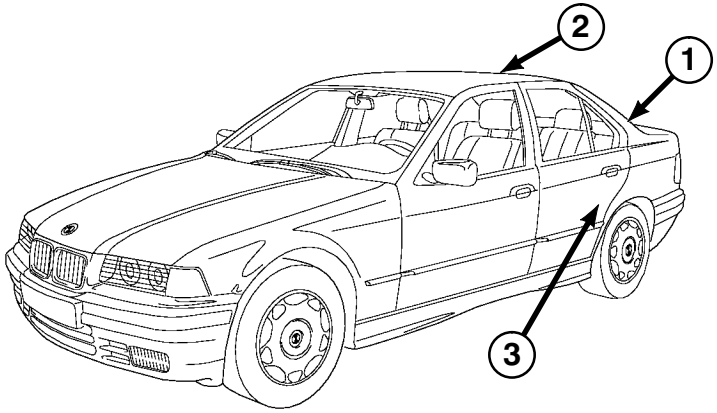


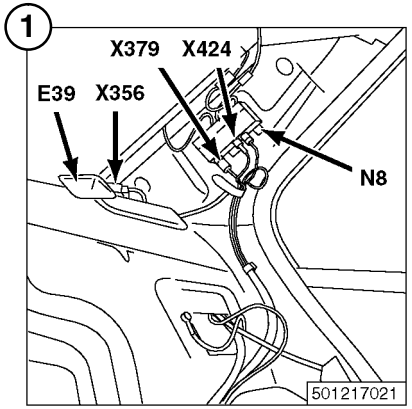
X747
X751
X752
X18296



X279

COMPONENT LOCATION VIEWS

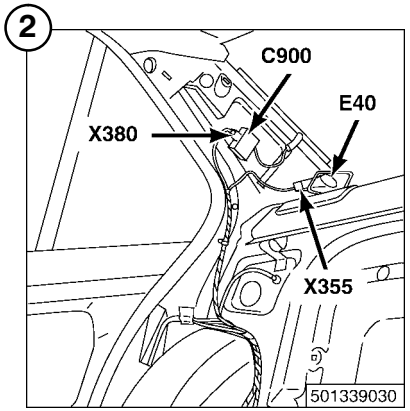




E39
LEFT REAR INTERIOR LIGHT

N8
ANTENNA AMPLIFIER AM/FM

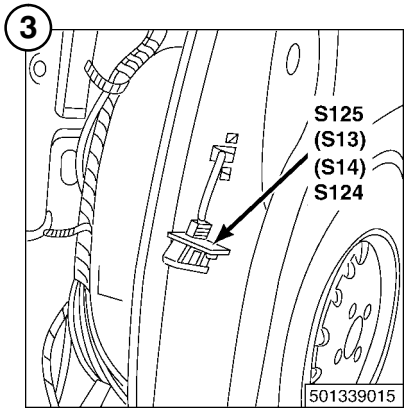
X356
X379
X424



C900
SUPPRESSION FILTER

E40
RIGHT REAR INTERIOR LIGHT

X355
X380



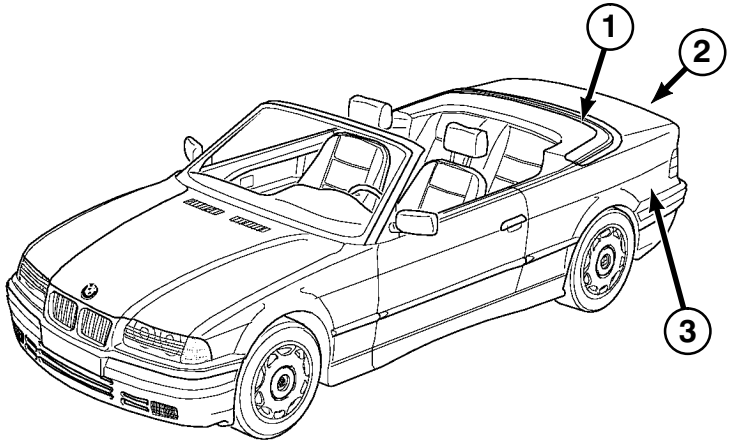
S13
PASSENGER'S DOOR JAMB SWITCH

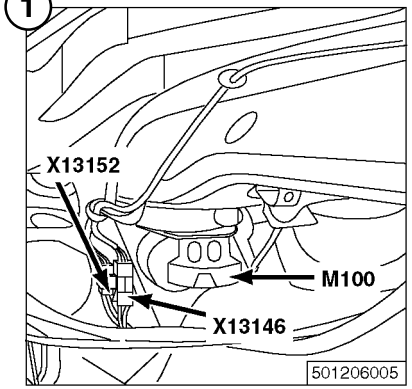
S125
LEFT REAR DOOR CONTACT

S14
DRIVER'S DOOR JAMB SWITCH

S124
RIGHT REAR DOOR CONTACT

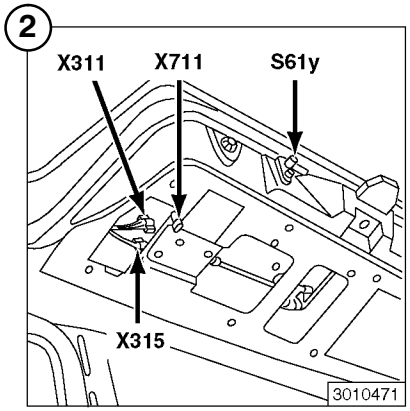
COMPONENT LOCATION VIEWS





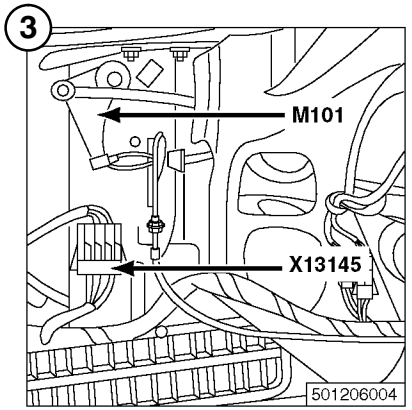
M100
CONVERTIBLE TOP STORAGE LID MOTOR

X13146
X13152



S61y
TRUNK LIGHT SWITCH

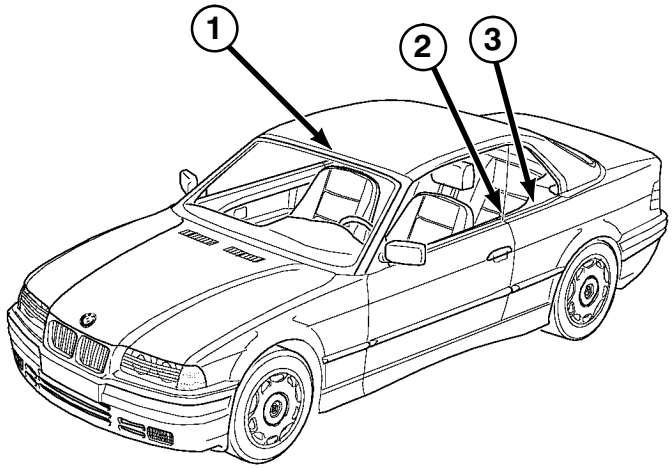
X311
X315
X711

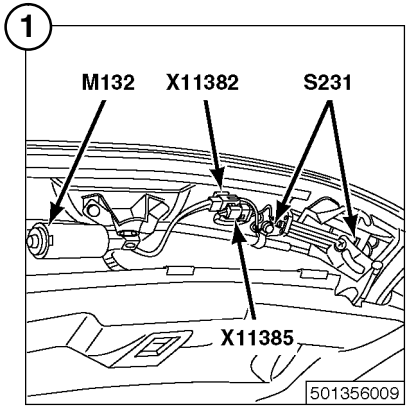


M101
CONVERTIBLE TOP MOTOR

X13145

COMPONENT LOCATION VIEWS

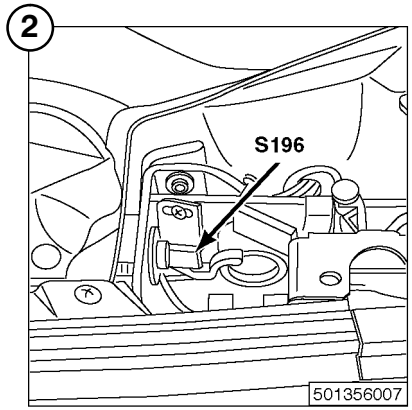




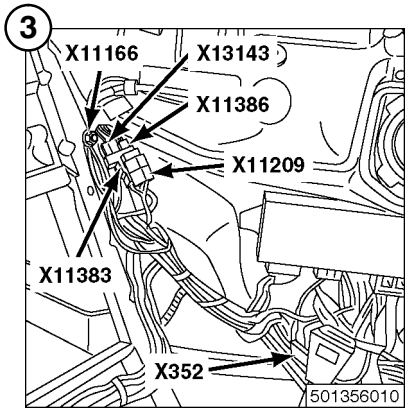
M132
WINDSCREEN
COWL PANEL
LOCK MOTOR

S231
WINDSCREEN
COWL PANEL
LOCK MICRO-
SWITCH

X11382
X11385

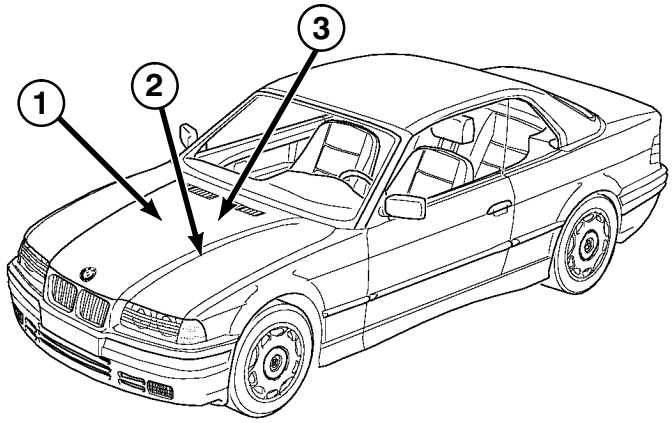


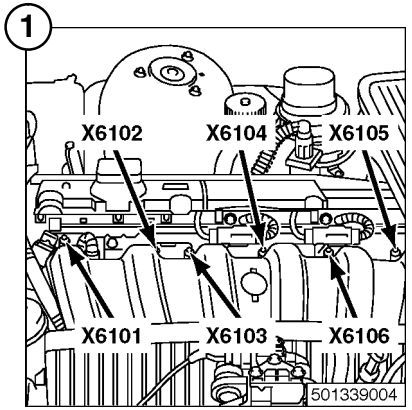
S196
REAR WINDOW
BLOWER MICRO
SWITCH



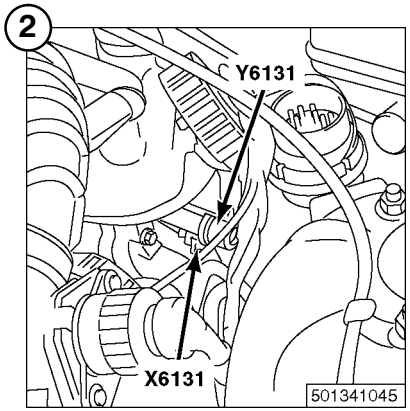
X352
X11166
X11209
X11383
X11386
X13143

COMPONENT LOCATION VIEWS



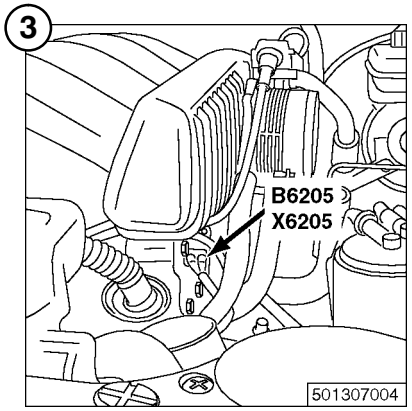


X6101
X6102
X6103
X6104
X6105
X6106



Y6131
INTAKE AIR RESONANCE CHANGE-OVER VALVE

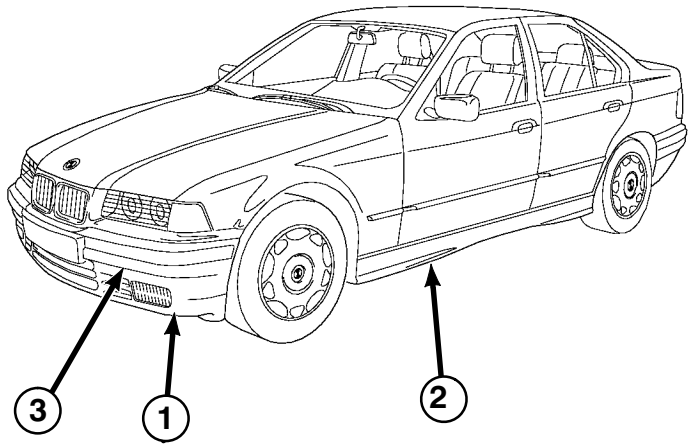
X6131

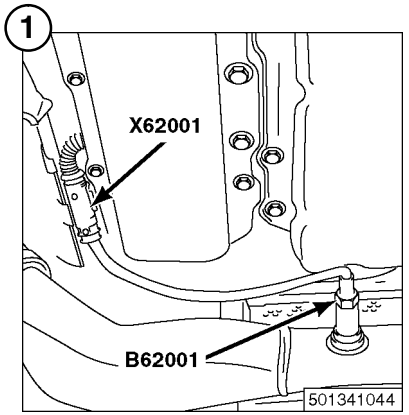


B6205
INTAKE AIR TEMPERATURE SENSOR

X6205

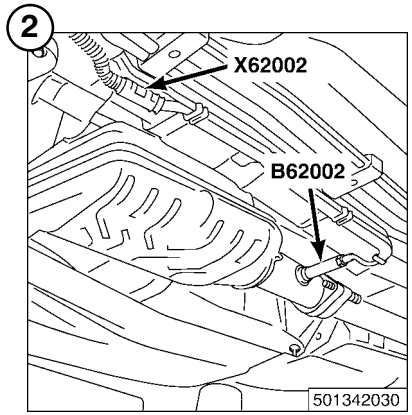
COMPONENT LOCATION VIEWS





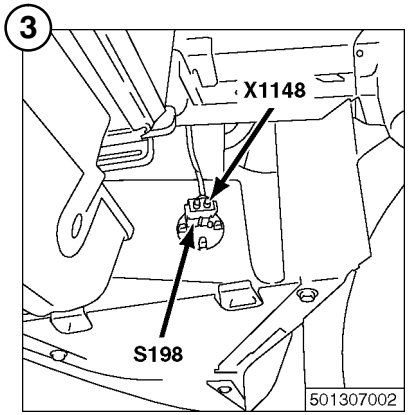
B62001
OXYGEN SENSOR
(IN FRONT OF CAT-
ALYTIC CONVERT-
ER)

X62001



B62002
OXYGEN SENSOR
(BEHIND CATALYT-
IC CONVERTER)

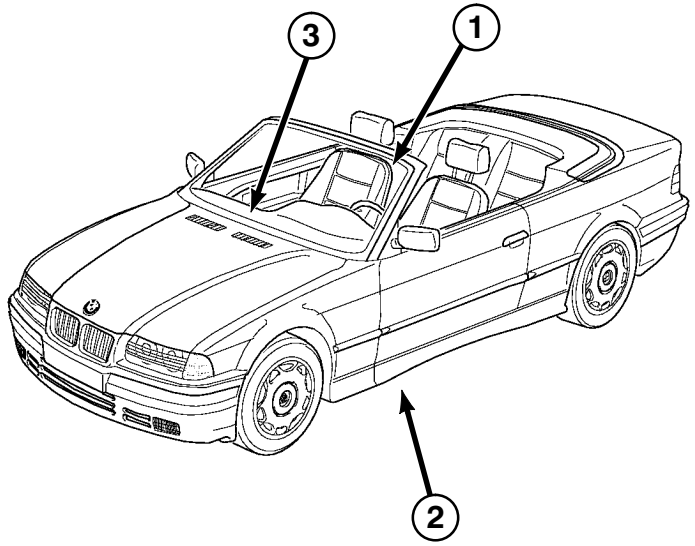
X62002

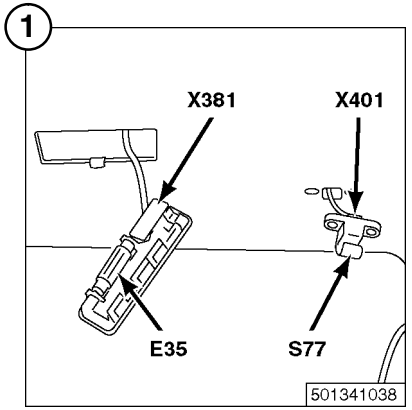


S198
JET HEATER THER-
MOSWITCH

X1148

COMPONENT LOCATION VIEWS

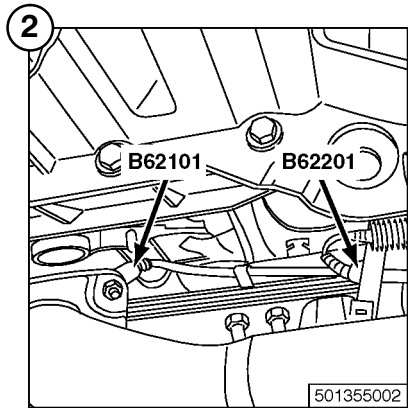




E35
DRIVER'S MAKE–UP MIRROR LIGHT

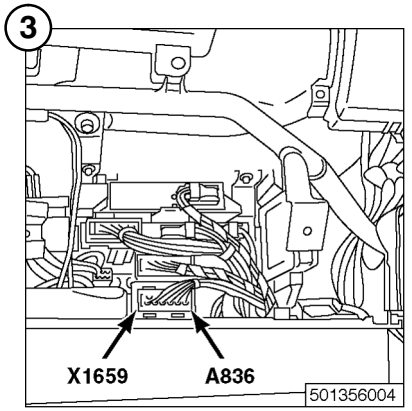
S77
DRIVER'S MAKE–UP MIRROR SWITCH

X381
X401



B62101
OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER)

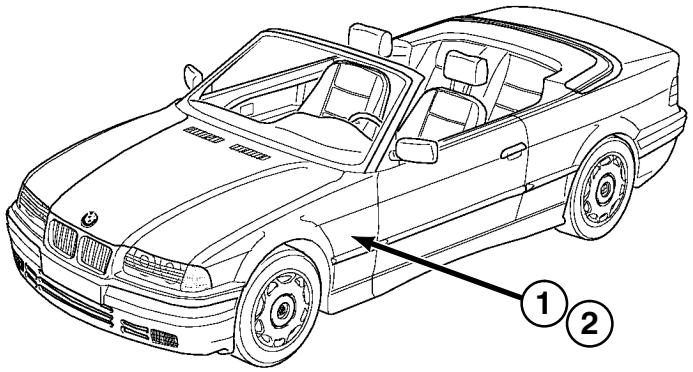
B62201
OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER)

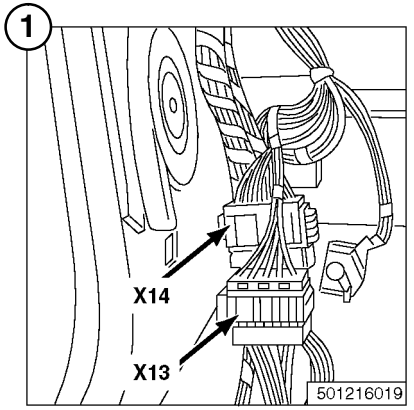


A836
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)

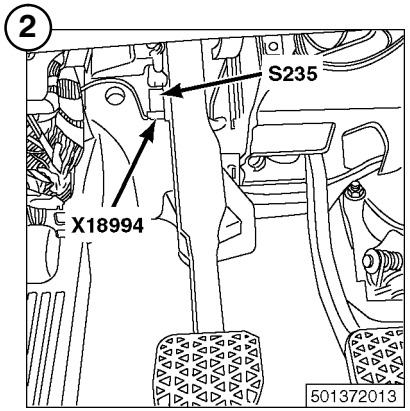
X1659

COMPONENT LOCATION VIEWS





X13
X14



S235
STARTER IMMOBILIZATION SWITCH

X18994

SPLICE LOCATION VIEWS

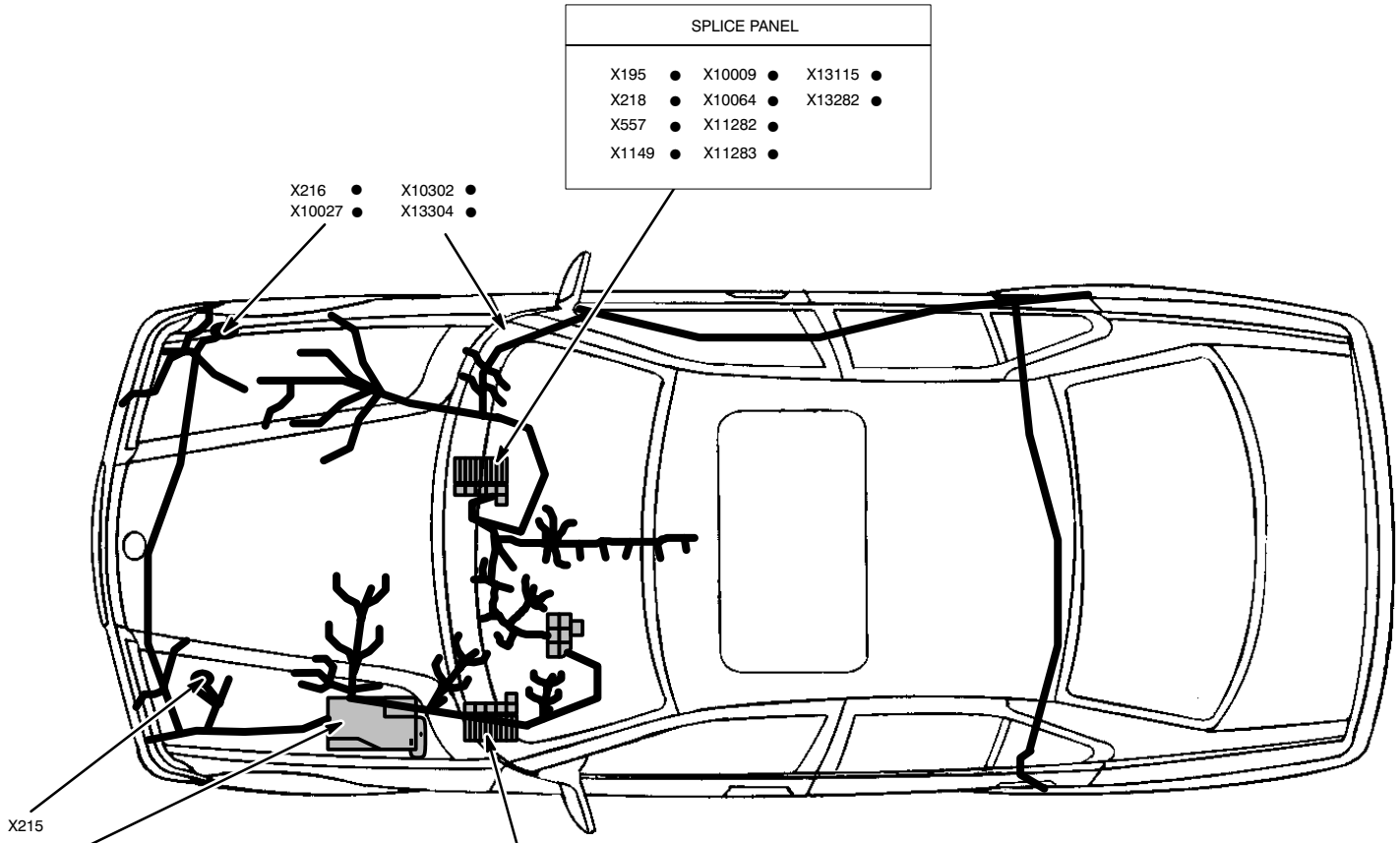
SPLICE	HARNESS	PAGE NUMBER
X181–X276	FRONT	8000.0-02
X313–X314	REAR	8000.0-03
X313–X314	REAR, CONVERTIBLE	8000.0-04
X428–X481	REAR	8000.0-03
X428–X481	REAR, CONVERTIBLE	8000.0-04
X530–X595	FRONT	8000.0-02
X805	REAR	8000.0-03
X805	REAR, CONVERTIBLE	8000.0-04
X818	IHKA	NOT SHOWN
X824–X830	RADIO	NOT SHOWN
X834	LH REAR DOOR	NOT SHOWN
X835	RH REAR DOOR	NOT SHOWN
X849	DRIVER'S DOOR	NOT SHOWN
X876–X878	RADIO	NOT SHOWN
X906	IHKA	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015–X1164	FRONT	8000.0-02
X1149	FRONT	8000.0-02
X1167	REAR	8000.0-03
X1168–X1192	FRONT	8000.0-02
X1212–X1218	REAR	8000.0-03
X1212–X1235	REAR, CONVERTIBLE	8000.0-04
X1225–X1233	FRONT	8000.0-02
X1226–X1235	REAR	8000.0-03
X1258	FRONT	8000.0-02
X1263	REAR, CONVERTIBLE	8000.0-04
X1263–X1299	REAR	8000.0-03
X1382–X1383	RADIO	NOT SHOWN
X1387–X1396	REAR	8000.0-03
X1387–X1396	REAR, CONVERTIBLE	8000.0-04
X1541–X1693	FRONT	8000.0-02
X1894–X2152	REAR	8000.0-03
X2152	REAR, CONVERTIBLE	8000.0-04
X6410–X6492	M44 ENGINE	8000.0-05
X6411–X6492	M3 ENGINE	8000.0-06
X6411–X6492	M52 ENGINE	8000.0-07
X6810–X6900	M3 ENGINE	8000.0-06
X6810–X6900	M52 ENGINE	8000.0-07
X6820–X6900	M44 ENGINE	8000.0-05
X7845–X7846	M44 ENGINE	8000.0-05
X8000–X8576	M3 ENGINE	8000.0-06
X8000–X8776	M52 ENGINE	8000.0-07
X8004–X8576	M44 ENGINE	8000.0-05
X10007–X10104	FRONT	8000.0-02
X10118	REAR	8000.0-03
X10118	REAR, CONVERTIBLE	8000.0-04
X10120–X10123	FRONT	8000.0-02
X10169	M44 ENGINE	8000.0-05
X10189	REAR, CONVERTIBLE	8000.0-04
X10191–X10192	FRONT	8000.0-02
X10228–X10292	REAR, CONVERTIBLE	8000.0-04
X10231–X10252	FRONT	8000.0-02
X10269	REAR	8000.0-03
X10269	REAR, CONVERTIBLE	8000.0-04
X10302	FRONT	8000.0-02
X11264	FRONT	8000.0-02

SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X11269	REAR	8000.0-03			
X11279	REAR, CONVERTIBLE	8000.0-04			
X11282–X11381	FRONT	8000.0-02			
X13000	FRONT	8000.0-02			
X13002–X13011	REAR	8000.0-03			
X13002–X13011	REAR, CONVERTIBLE	8000.0-04			
X13021–X13115	FRONT	8000.0-02			
X13127–X13273	REAR, CONVERTIBLE	8000.0-04			
X13129–X13173	REAR	8000.0-03			
X13282	FRONT	8000.0-02			
X13289	REAR	8000.0-03			
X13289	REAR, CONVERTIBLE	8000.0-04			
X13300–X13304	FRONT	8000.0-02			
X13309	REAR	8000.0-03			
X13309	REAR, CONVERTIBLE	8000.0-04			
X13311–X13313	FRONT	8000.0-02			
X18160–X18161	IHKA	NOT SHOWN			
X18165–X18784	FRONT	8000.0-02			
X18785–X18799	REAR, CONVERTIBLE	8000.0-04			
X19513–X19515	RADIO	NOT SHOWN			

SPLICE LOCATION VIEWS

FRONT HARNESS



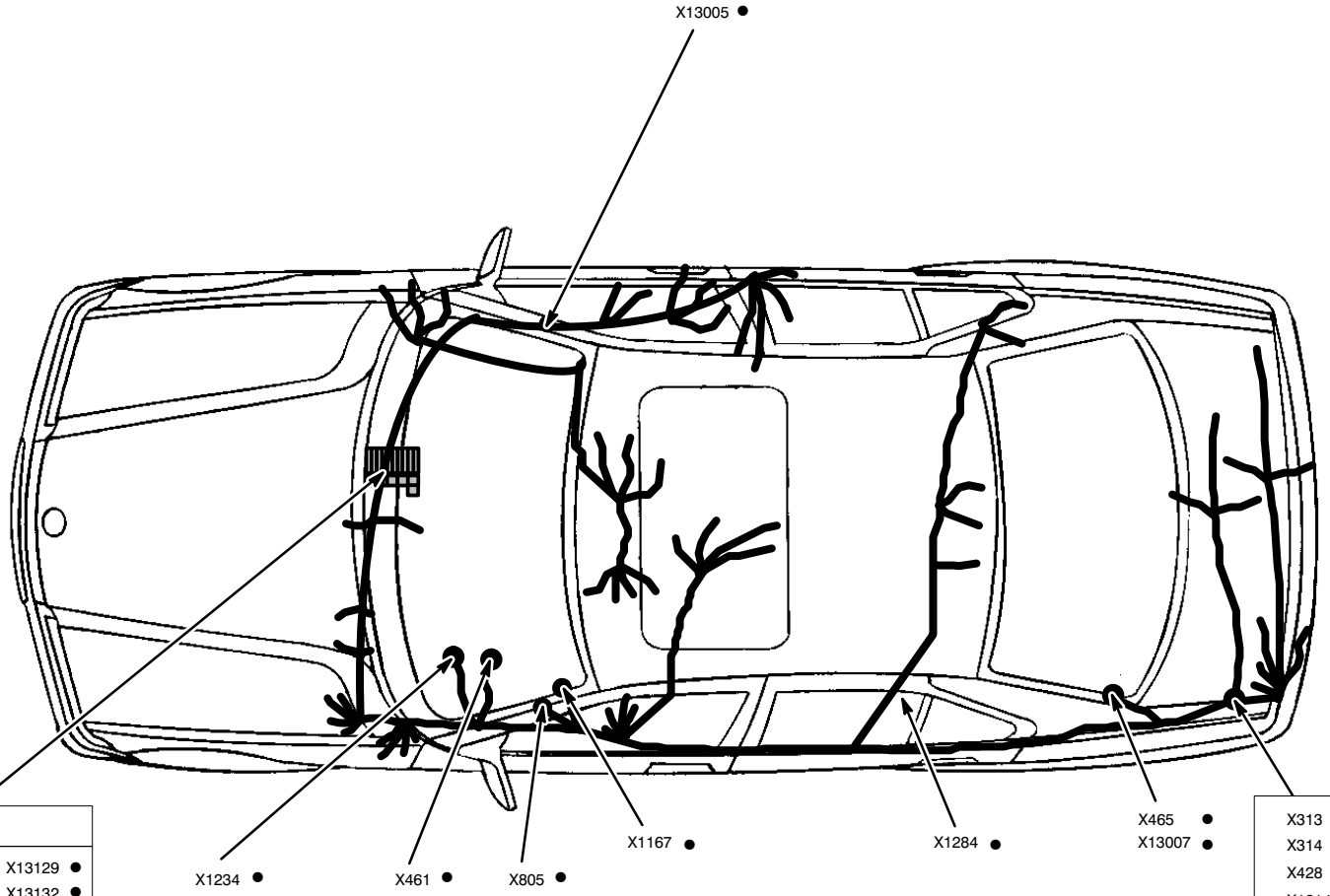
SPLICE PANEL		
X195	X10009	X13115
X218	X10064	X13282
X557	X11282	
X1149	X11283	

SPLICE PANEL					
X184	X246	X1036	X1164	X10007	X11284
X185	X276	X1055	X1168	X10020	X13000
X186	X530	X1068	X1172	X10021	X13300
X187	X585	X1073	X1177	X10022	X13302
X203	X1015	X1076	X1186	X10029	X18783
X223	X1022	X1077	X1192	X10055	X18784
X238	X1027	X1152	X1233	X10100	
X245	X1028	X1163	X1541	X10192	

SPLICE PANEL						
X181	X228	X1079	X1682	X10024	X10123	X13312
X182	X1019	X1080	X1686	X10028	X10191	X13313
X183	X1029	X1085	X1687	X10060	X10231	X18165
X188	X1047	X1179	X1689	X10061	X10252	
X191	X1065	X1182	X1691	X10090	X11264	
X196	X1066	X1225	X1693	X10103	X11381	
X197	X1067	X1258	X10008	X10104	X13021	
X213	X1069	X1542	X10011	X10120	X13311	

SPLICE LOCATION VIEWS

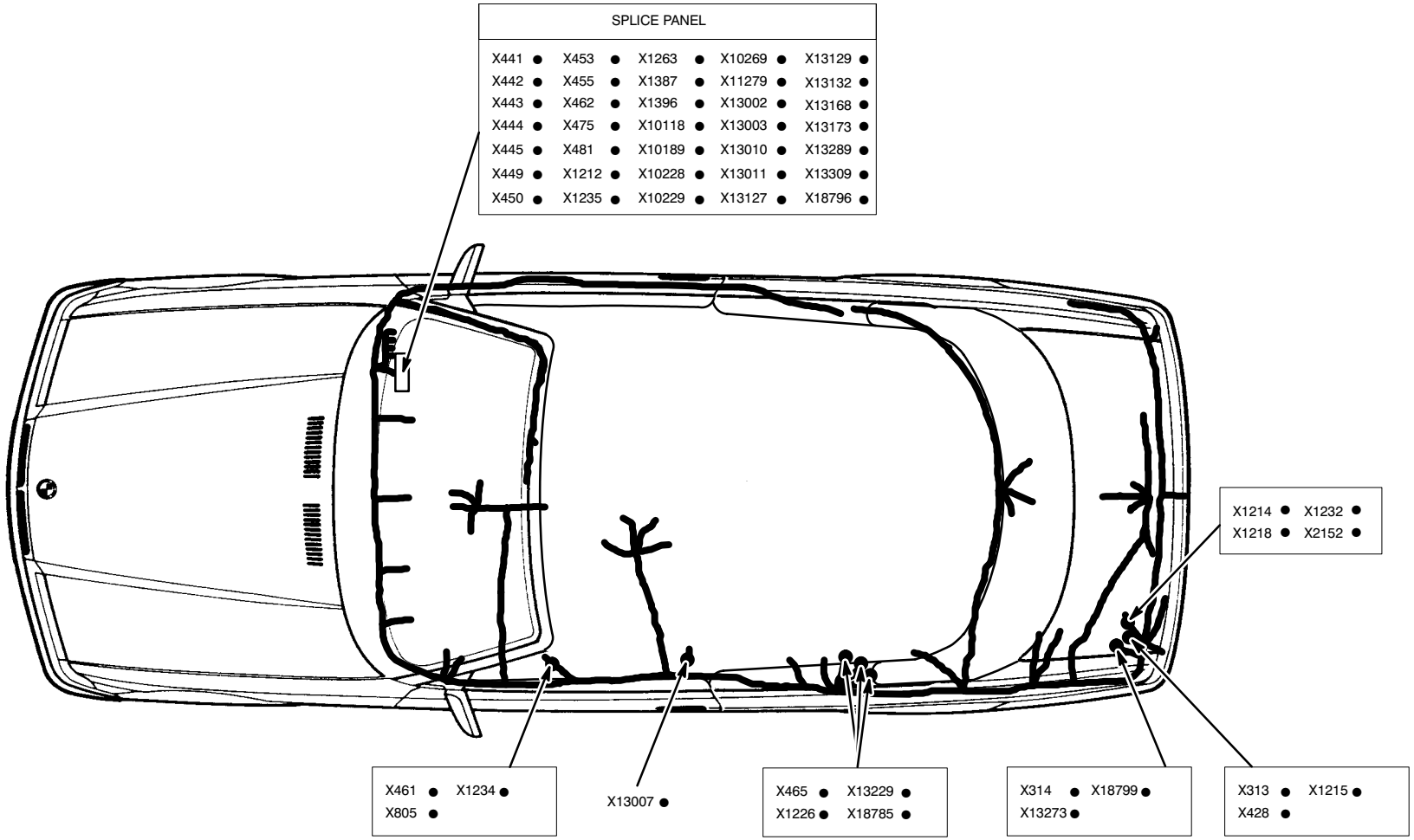
REAR HARNESS



SPLICE PANEL			
X441	X462	X1894	X13129
X442	X475	X1895	X13132
X443	X481	X10118	X13164
X444	X1212	X10269	X13164
X445	X1235	X11269	X13168
X449	X1263	X13002	X13173
X450	X1299	X13003	X13289
X453	X1387	X13010	X13309
X455	X1396	X13011	

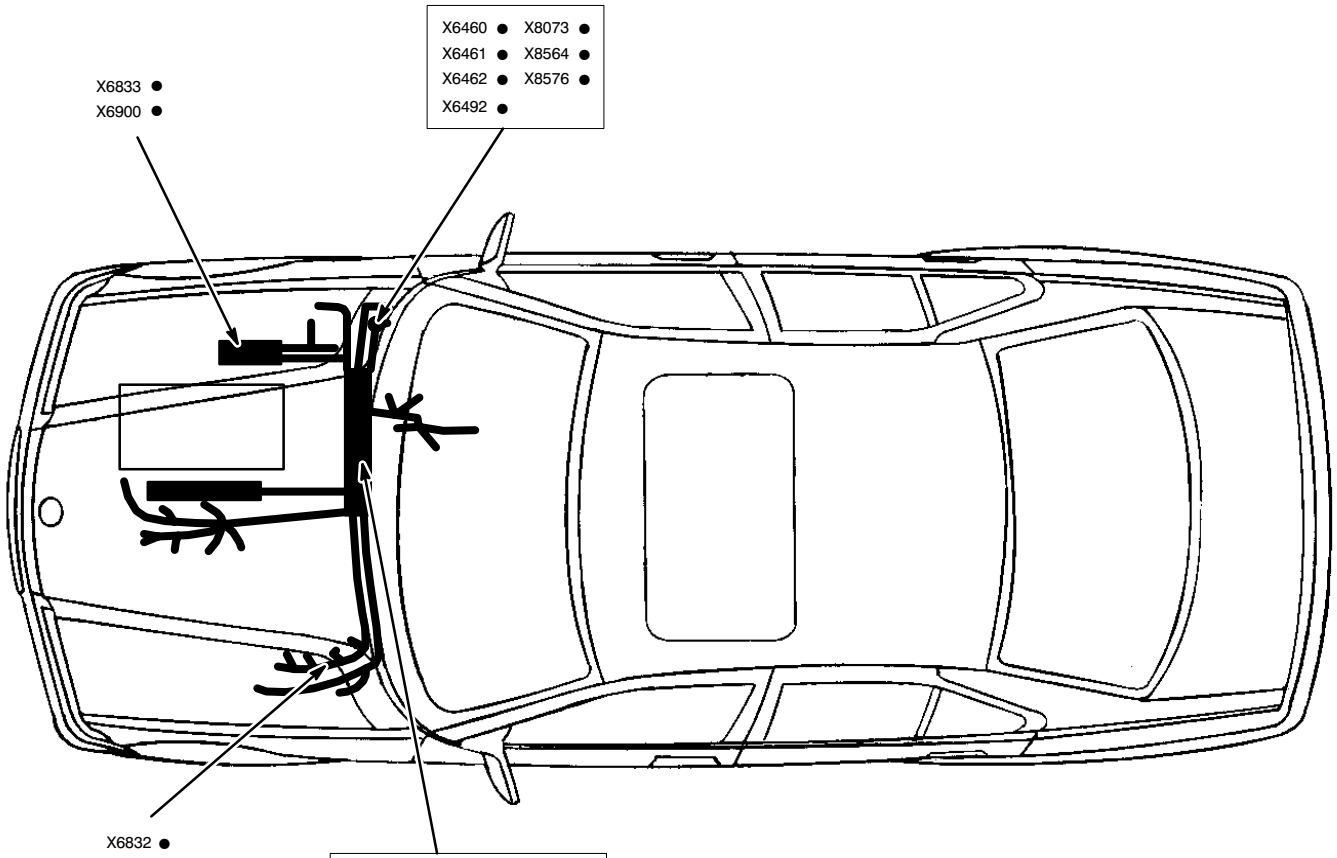
SPLICE LOCATION VIEWS

REAR WIRING HARNESS – CONVERTIBLE



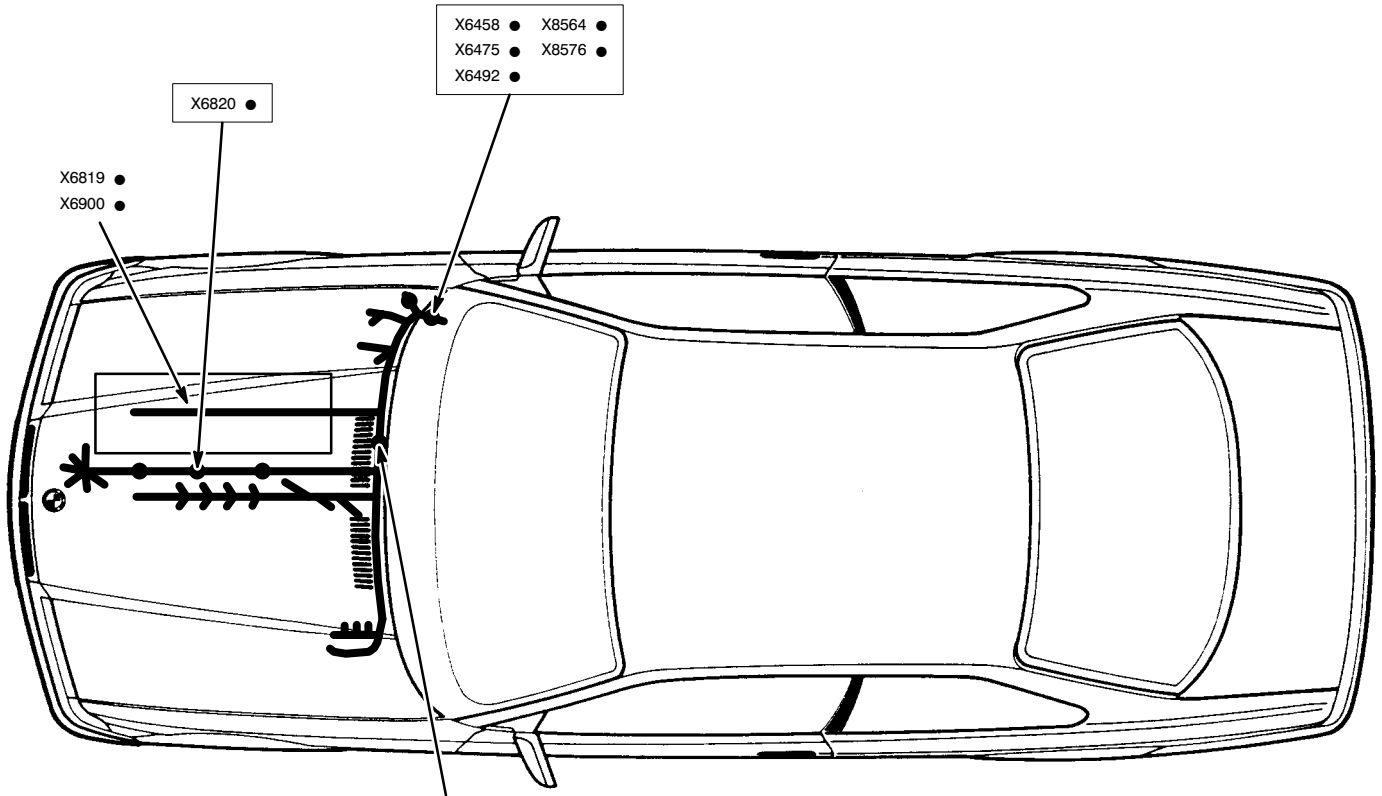
SPLICE LOCATION VIEWS

ENGINE HARNESS M44



SPLICE LOCATION VIEWS

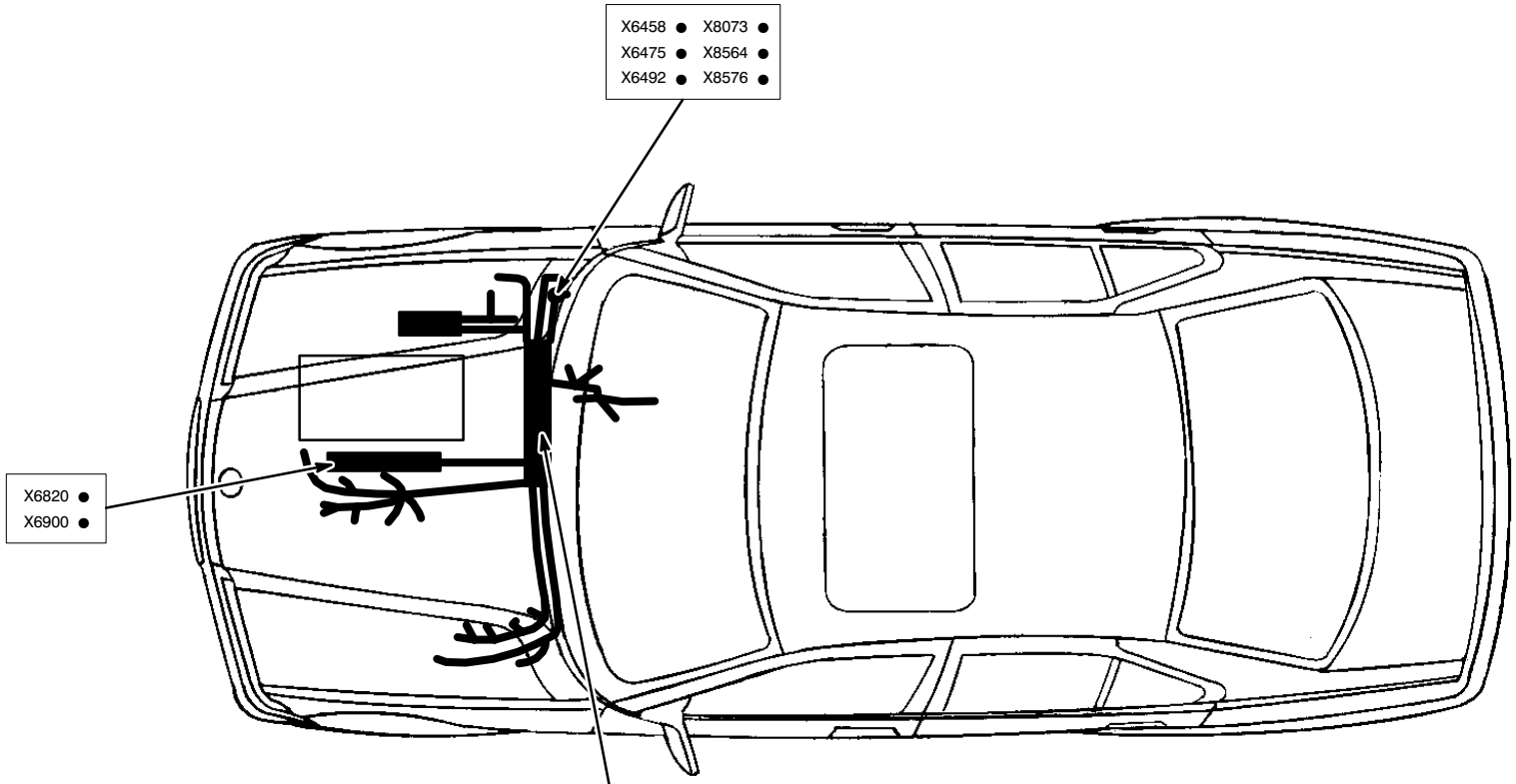
ENGINE HARNESS M3



SPLICE PANEL				
X6411 ●	X6822 ●	X6867 ●	X8010 ●	X8074 ●
X6412 ●	X6823 ●	X6868 ●	X8015 ●	X8103 ●
X6420 ●	X6832 ●	X6869 ●	X8038 ●	X8565 ●
X6459 ●	X6835 ●	X8000 ●	X8051 ●	
X6810 ●	X6860 ●	X8004 ●	X8071 ●	
X6821 ●	X6863 ●	X8007 ●	X8072 ●	

SPLICE LOCATION VIEWS

ENGINE HARNESS M52



CONNECTOR VIEWS

FIG. 1

B550001.03

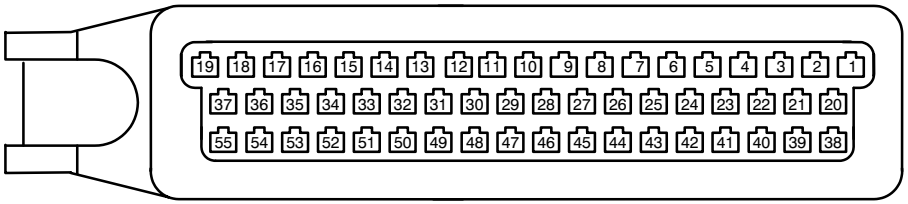


FIG. 2

B260005.00

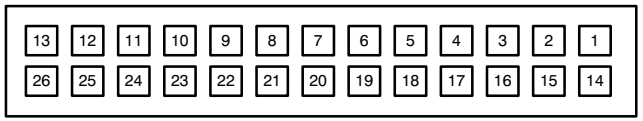


FIG. 3

B150003.00

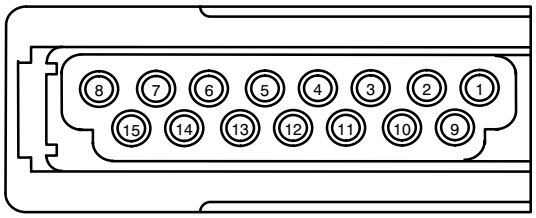
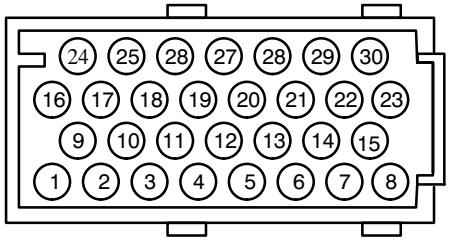


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

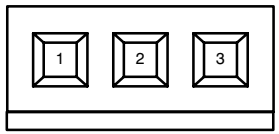


FIG. 2

B120003.00

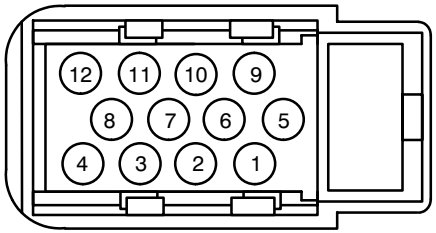


FIG. 3

B120001.00

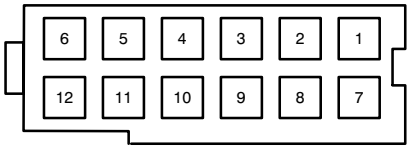


FIG. 4

B080002.00

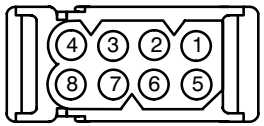


FIG. 5

B180000.00

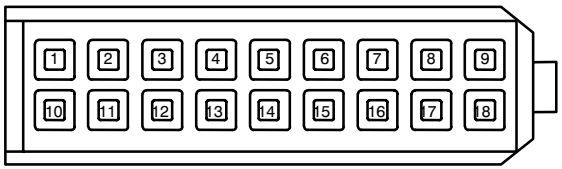
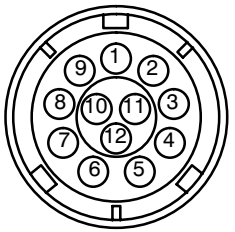


FIG. 6

B120015



CONNECTOR VIEWS

FIG. 1

B030001.00

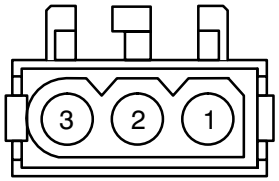


FIG. 2

B070007.00

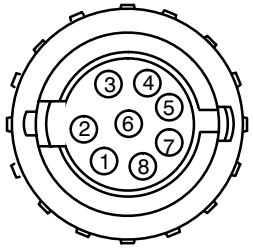


FIG. 3

B170001.00

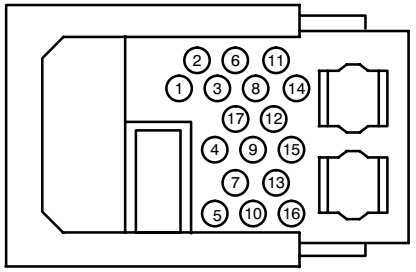


FIG. 4

B100008.00

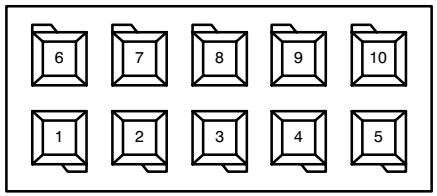
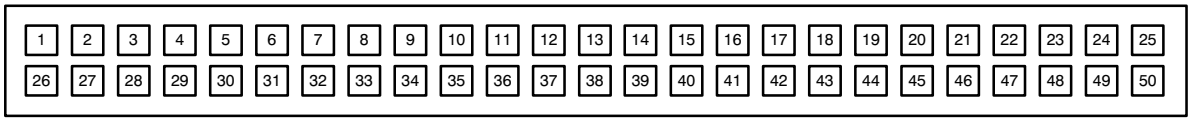


FIG. 5

B500000.00



CONNECTOR VIEWS

FIG. 1

B160001.00

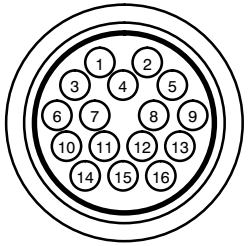


FIG. 2

B050003.00

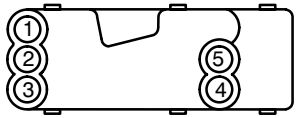


FIG. 3

B040004.00

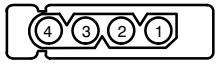


FIG. 4

B120002.02

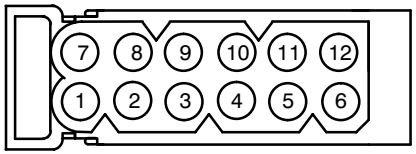


FIG. 5

B080001.00

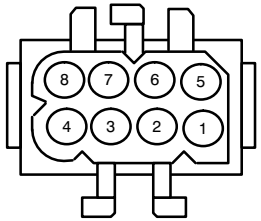
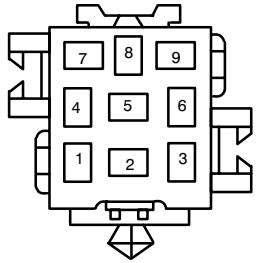


FIG. 6

B090002.00



CONNECTOR VIEWS

FIG. 1

B210002.00

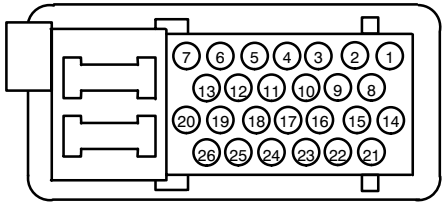


FIG. 2

B060001.02

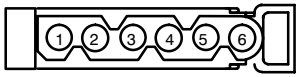


FIG. 3

B050005.00

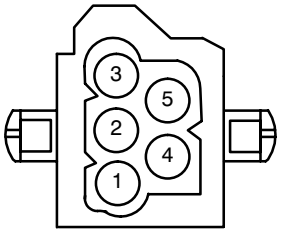


FIG. 4

B200003.00

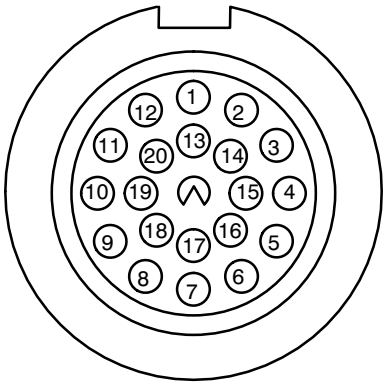


FIG. 5

B060010.01

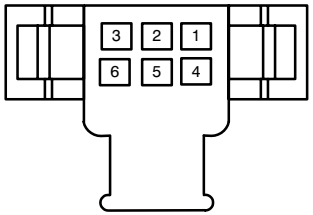
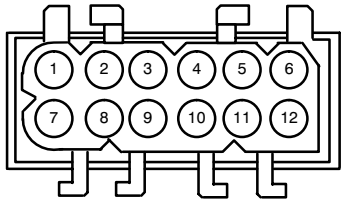


FIG. 6

B120004.01



CONNECTOR VIEWS

FIG. 1

B060008.00

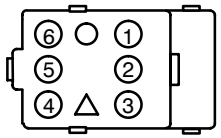


FIG. 2

B250001.01

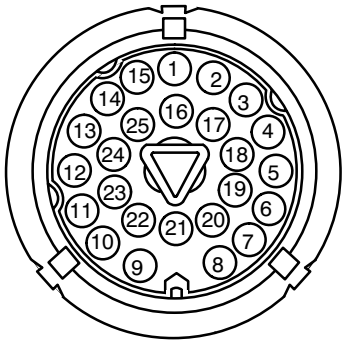


FIG. 3

B060019.02

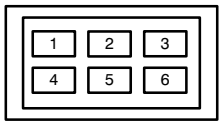


FIG. 4

B060037.00

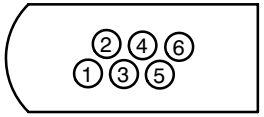


FIG. 5

B250004.00

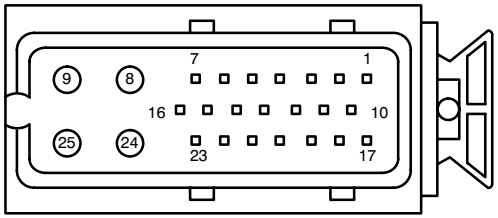
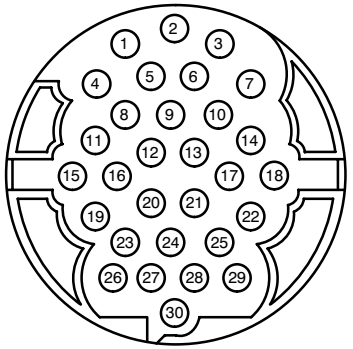


FIG. 6

B300005.00



CONNECTOR VIEWS

FIG. 1

B880001.00

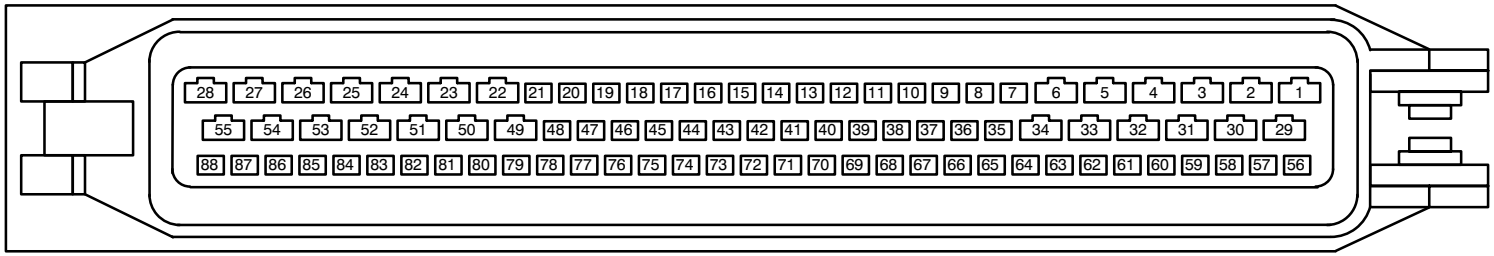


FIG. 2

B060038.00

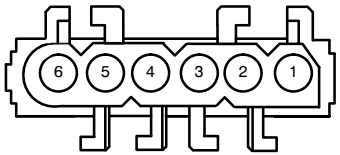


FIG. 3

B030006.00

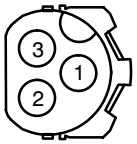
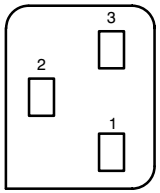


FIG. 4

B030004.01



CONNECTOR VIEWS

FIG. 1

B060012.00

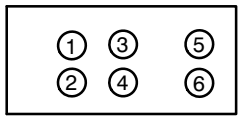


FIG. 2

B040023.01

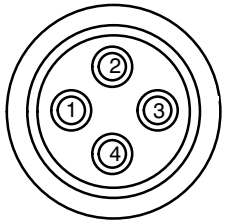


FIG. 3

B030018.00

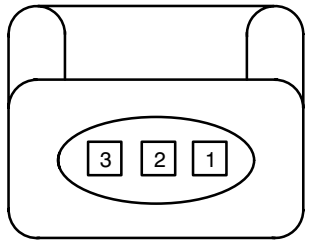


FIG. 4

B030015.08

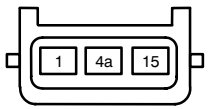


FIG. 5

B030023.00

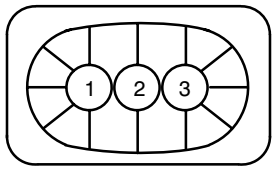
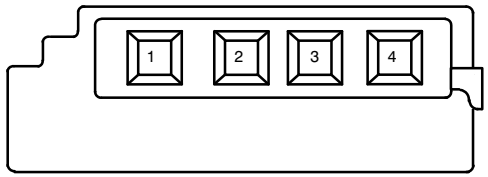


FIG. 6

B040020.00



CONNECTOR VIEWS

FIG. 1

B030025.00

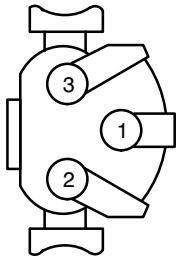


FIG. 2

B060037.01

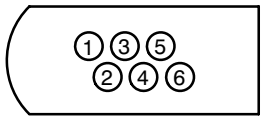


FIG. 3

B160003.00

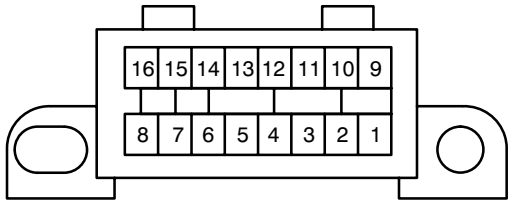


FIG. 4

B060001.00

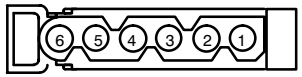
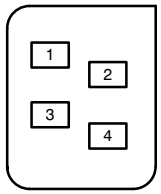


FIG. 5

B040027.00



CONNECTOR VIEWS

FIG. 1

B060019.03

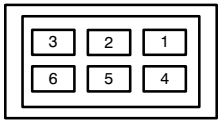


FIG. 2

B090006.00

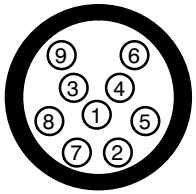


FIG. 3

B060042

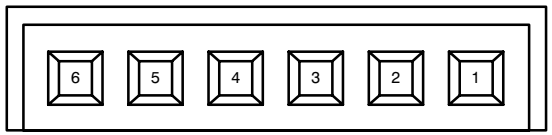
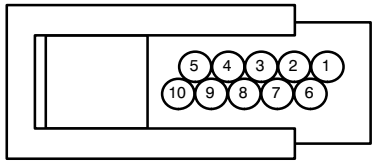


FIG. 4

B100007.00



CONNECTOR VIEWS

FIG. 1

B040021

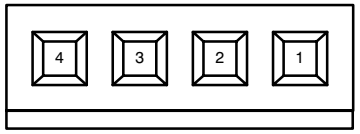


FIG. 2

B030018.01

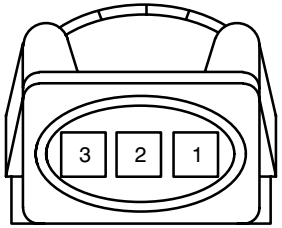


FIG. 3

B030042.01

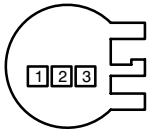
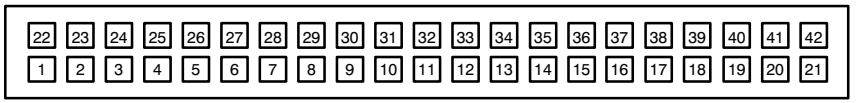
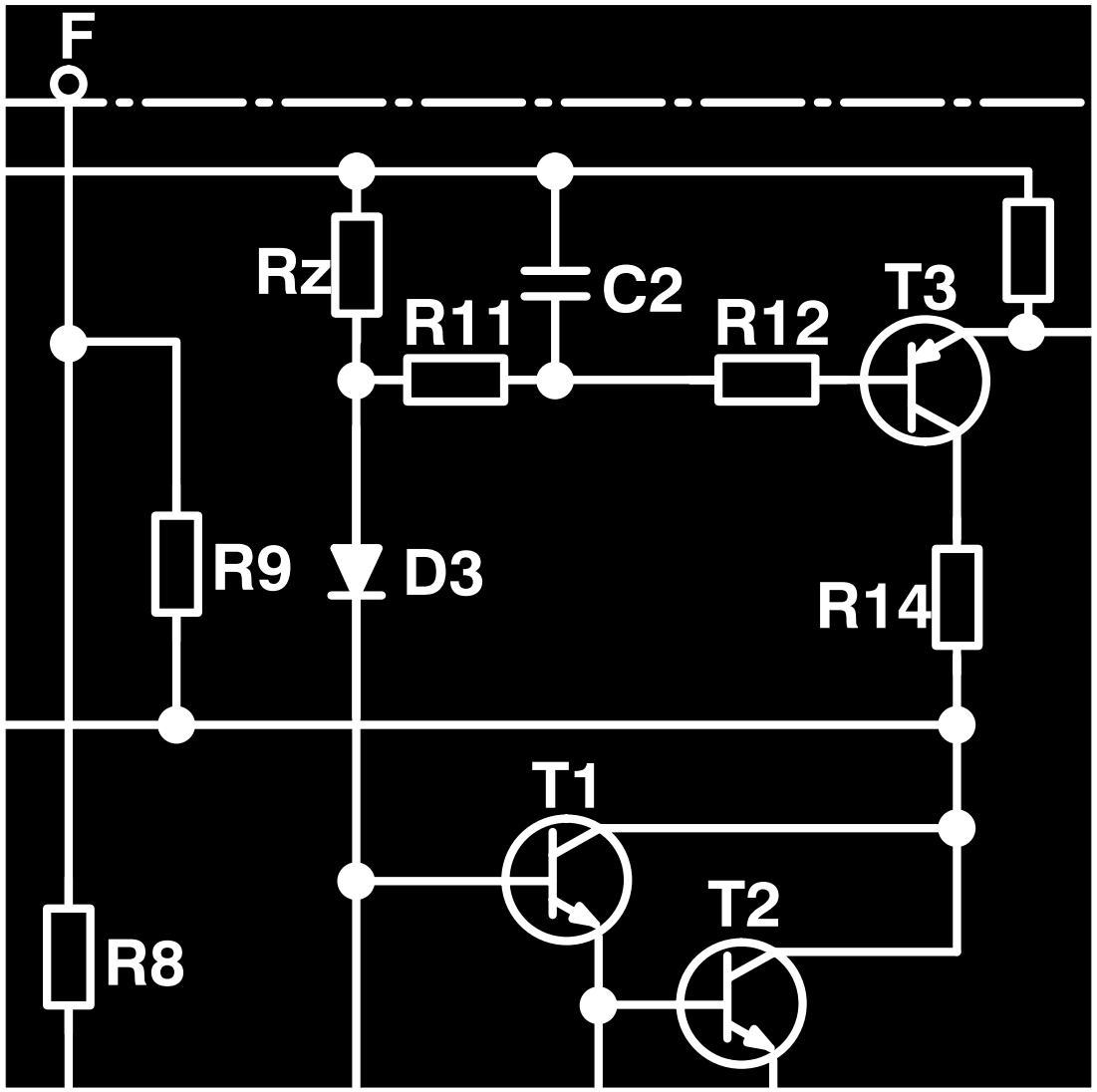


FIG. 4

B420000.00





1998

BMW E36 318is/c, 323i/c, 328i/c, M3/c

Electrical Troubleshooting Manual

Vehicles Produced 9/97 to 8/98

PN 001 00 1 470 215

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

SERIES 3 – E36 (318is, 323i, 328i, M3, INCL. CONVERTIBLE)

SCHEMATICS MODEL YEAR 1998

0100.0	INDEX
0110.0	INTRODUCTION
0140.0	SYMBOLS
0670.0	POWER DISTRIBUTION CHART
0670.1	FUSE CHART
0670.2	POWER DISTRIBUTION
0670.3	FUSE DETAILS
0670.4	GROUND DISTRIBUTION
0670.5	DATA LINK
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)
1230.0	CHARGING SYSTEM
1240.0	START
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)
3450.0	SLIP CONTROL (ABS)
3450.1	SLIP CONTROL (ABS/ASC)
5116.0	POWER MIRRORS
5120.0	ZKE DOOR LOCK HEATING (TSH)
5126.0	ZKE CENTRAL LOCKING (ZV)
5133.1	POWER WINDOWS (FH)
5200.0	POWER SEATS
5203.0	HEATED SEATS
5410.1	POWER TILT/SLIDE SUNROOF (SHD)
5430.1	ELECTRICAL CONVERTIBLE TOP
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)
6133.0	HORN
6135.0	DRIVE–AWAY PROTECTION (EWS II)
6160.1	WIPER/WASHER MODULE (WWM)
6167.1	HEADLIGHT WASHER (SRA)
6169.0	WINDSHIELD WASHER JET HEATERS
6211.0	INSTRUMENT CLUSTER
6213.1	ANALOG CLOCK
6213.2	MULTI–FUNCTION CLOCK
6214.0	ON–BOARD DISPLAY

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SCHEMATICS

6300.0 LIGHT SWITCH DETAILS
6312.0 HEADLIGHTS/FOG LIGHTS
6313.0 TURN/HAZARD LIGHTS
6314.0 PARK/TAIL LIGHTS
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS
6322.0 BACK UP LIGHTS
6325.0 BRAKE LIGHTS
6330.3 INTERIOR LIGHTS
6332.1 GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER
6350.0 CRASH CONTROL MODULE
6410.5 HEATING CONTROL (HR)
6412.10 PARK VENTILATION WITH HR
6412.20 PARK VENTILATION WITH IHKA E36
6424.0 REAR WINDOW DEFOGGER/ ANTENNA
6450.7 INTEGRATED CLIMATE REGULATION (IHKA E36)
6510.0 RADIO/STEREO
6510.1 RADIO/HIFI
6561.0 CELLULAR TELEPHONE (PROVISIONS)
6571.0 CRUISE CONTROL (TEMPOMAT)
6575.2 ANTI–THEFT SYSTEM (ALPINE)
6581.2 ON–BOARD COMPUTER (BC V)
7000.0 COMPONENT LOCATION CHART
7100.0 COMPONENT LOCATION VIEWS
8000.0 SPLICE LOCATION VIEWS
8500.0 CONNECTOR VIEWS

0100.0 INDEX

ABS CONTROL MODULE/HYDRAULIC UNIT, A202 ..... 3450.0
ABS HYDRAULIC UNIT, Y1 ..... 3450.1-06
ABS HYDRAULIC UNIT, Y1w 3450.1-01
ABS PEDAL TRAVEL SENSOR, S123 ..... 3450.1-01
ABS PUMP MOTOR RELAY, K75 ..... 3450.
ABS PUMP MOTOR RELAY, TIMED, K125 ..... 3450.1-00
ABS PUMP MOTOR RELAY, TIMED, K125 ..... 3450.1-05
ABS RELAY, K10 ..... 3450.
ACCELERATOR PEDAL POSITION SENSOR (ASC), R6255 ..... 3450.1-05
AIR BAG GAS GENERATOR, DRIVER'S, G5 ..... 3234.0-00
AIR BAG GAS GENERATOR, PASSENGER'S, G6 ..... 3234.0-00
AIR BAG GAS GENERATOR, RIGHT SIDE, G15 ..... 3234.0-01
AIR CONDITIONING COMPRESSOR, Y2 ..... 6450.7-04
AIR PUMP, M6133 ..... 1210.17-05
AIR PUMP, Y6133 ..... 1210.20-09
ANALOG CLOCK 6213.1-00
ANALOG CLOCK, N5 ..... 6213.1-00
ANTENNA AMPLIFIER AM/FM, N8 ..... 6424.0-00
ANTI–THEFT CONTROL MODULE (ALPINE), N12w 6575.2
ANTI–THEFT HORN (ALPINE), H1w 6575.2-02
ANTI–THEFT SYSTEM (ALPINE) 6575.2
ASC DIODE, V7 ..... 3450.1-00
ASC SWITCH, S6 ..... 3450.1-02
ASC SWITCH, S6 ..... 3450.1-07
ASHTRAY LIGHT, FRONT, E25 ..... 6332.1-00
ASHTRAY LIGHT, REAR, E28y 6300.0-01
AUTOMATIC CLIMATE CONTROL MODULE, A115 ..... 6450.7
AUTOMATIC TRANSMISSION RANGE SWITCH, S3 ..... 2460.
AUXILIARY FAN MOTOR, M9 ..... 6450.7
AUXILIARY FUSE BOX IN LUGGAGE COMPARTMENT, P96 ..... 0670.2
AUXILIARY FUSE BOX, P95 ..... 0670.2-04
AUXILIARY FUSE BOX, P97 ..... 0670.2
AUXILIARY THROTTLE POSITION MOTOR (ADS), M93 3450.1-02
AUXILIARY THROTTLE POSITION MOTOR (ADS), M93 3450.1-07
AUXILIARY THROTTLE POSITION SENSOR, R31 .... 3450.1-04
AUXILIARY TURN LIGHT, LEFT FRONT, H9 ..... 6313.0-02
AUXILIARY TURN LIGHT, RIGHT FRONT, H8 ..... 6313.0-02
B+ JUMP START JUNCTION POINT, G6430 ..... 0670.2-00
BACK UP LIGHT, LEFT, H27 ..... 6322.0-00
BACK UP LIGHT, RIGHT, H28 ..... 6322.0-00
BACK UP LIGHTS 6322.0
BATTERY, G1 ..... 0670.2-00
BLOWER MOTOR, M30 ..... 6410.5-01
BLOWER MOTOR, M30 ..... 6412.10-01
BLOWER MOTOR, M30 ..... 6450.7-00
BLOWER RELAY, K4 ..... 6410.5-00
BLOWER RELAY, K4 ..... 6412.10-00
BLOWER RELAY, K4 ..... 6450.7-00
BLOWER RESISTORS, R11 ..... 6410.5-01
BLOWER RESISTORS, R11 ..... 6412.10-01
BLOWER SWITCH, S75 ..... 6410.5-01
BLOWER SWITCH, S75 ..... 6412.10-00
BODY ELECTRONICS CONTROL MODULE (ZKE IV), A104 ..... 6100.0-00

INDEX

BRAKE FLUID LEVEL SWITCH, B18 . . . . . 6211.0-00
BRAKE LIGHT SWITCH, S29 . . . . . 6325.0-00
BRAKE LIGHT SWITCH, S30 . . . . . 6325.0-01
BRAKE LIGHT, LEFT, H24 . . . . . 6325.0
BRAKE LIGHT, RIGHT, H31 . . . . . 6325.0
BRAKE LIGHTS 6325.0
BRAKE PAD SENSOR, LEFT FRONT, B16 . . . . . 6211.0-01
BRAKE PAD SENSOR, RIGHT REAR, B17 . . . . . 6211.0-01
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION), B6204 . . . . . 1210.17-06
CARBON CANISTER VALVE, Y199 . . . . . 1210.17-10
CARBON CANISTER VALVE, Y199 . . . . . 1210.20-09
CASSETTE BOX LIGHT, E45y 6300.0-00
CD CHANGER, N22 . . . . . 6510.1-00
CELLULAR TELEPHONE (PROVISIONS) 6561.0
CENTRAL BODY ELECTRONICS (ZKE IV) 6100.0
CENTRAL LOCKING SWITCH, S302 . . . . . 5126.0-02
CENTRAL POWER WINDOW SWITCH, S40y 5133.1-03
CHARGING SOCKET, X779 . . . . . 6332.1-01
CHARGING SYSTEM 1230.0
CHECK CONTROL MODULE, A4 . . . . . 6581.2
CHILD PROTECTION CONTROL (CONSOLE), S130 . . 5133.1-02
CHIME MODULE, H10 . . . . . 6581.2-01
CIGAR LIGHTER LIGHT, FRONT, E29 . . . . . 6300.0-03
CIGAR LIGHTER, FRONT, E28 . . . . . 6332.1-00
CLUTCH SWITCH, S32 . . . . . 6571.0-01
COMBINATION SWITCH, S7 . . . . . 6312.0-00
COMBINATION SWITCH, S7 . . . . . 6313.0-00
COMPONENT LOCATION CHART 7000.0
COMPONENT LOCATION VIEWS 7100.0
COMPRESSOR CONTROL RELAY, K19 . . . . . 6450.7-04
CONNECTOR VIEWS 8500.0
CONTACT RING, C101 . . . . . 3234.0-00
CONVERTIBLE TOP ACTUATING SWITCH, S143 . . . . . 5430.1-01
CONVERTIBLE TOP CONTROL MODULE, A96 . . . . . 5430.1-00
CONVERTIBLE TOP END–POSITION MICRO SWITCH, S164 . . . . . 5430.1-01
CONVERTIBLE TOP MOTOR, M101 . . . . . 5430.1-02
CONVERTIBLE TOP POSITION MICRO SWITCH, S165 . . . . . 5430.1-01
CONVERTIBLE TOP STORAGE LID LOCK MOTOR, M43 . . . . . 5430.1-02
CONVERTIBLE TOP STORAGE LID MICRO SWITCH, S214 . . . . . 5430.1-02
CONVERTIBLE TOP STORAGE LID MOTOR, M100 . . . 5430.1-02
CRANKSHAFT POSITION/RPM SENSOR, B6203 . . . . . 1210.
CRASH CONTROL MODULE 6350.0
CRASH CONTROL MODULE, N17 . . . . . 6350.0-01
CRUISE CONTROL (TEMPOMAT) 6571.0
CRUISE CONTROL ACTUATOR (TEMPOMAT), M25 . . . 6571.0-01
CRUISE CONTROL MODULE (TEMPOMAT), A8 . . . . . 6571.0
CRUISE CONTROL SWITCH, S28 . . . . . 6571.0-00
DATA LINK 0670.5
DATA LINK CONNECTOR, D100 . . . . . 0670.5-00
DAY LIGHT RELAY MODULE, K46z 6312.0-01
DEFOGGER RELAY, REAR, K13 . . . . . 6424.0-00

INDEX

DEFOGGER/ANTENNA, REAR, E10 . . . . . 6424.0
DEFROSTER FLAP MOTOR, M35 . . . . . 6450.7-03
DIMMER, N3 . . . . . 6300.0-00
DIVERSITY, N404 . . . . . 6424.0-03
DOME LIGHT/MAP READING ASSEMBLY, FRONT, E34 . . . . . 6330.3
DOOR CONTACT, LEFT REAR, S125 . . . . . 6330.3-04
DOOR CONTACT, RIGHT REAR, S124 . . . . . 6330.3-04
DOOR HANDLE SWITCH, DRIVER'S, S48 . . . . . 6575.2-00
DOOR JAMB SWITCH, DRIVER'S, S14 . . . . . 5133.1-00
DOOR JAMB SWITCH, LEFT REAR, S16 . . . . . 6330.3-05
DOOR JAMB SWITCH, PASSENGER'S, S13 . . . . . 5133.1-00
DOOR JAMB SWITCH, REAR RIGHT, S15 . . . . . 6330.3-05
DOOR LOCK HEATER, E48 . . . . . 5120.0-00
DOOR LOCK MOTOR, DRIVER'S, M12 . . . . . 5126.0-00
DOOR LOCK MOTOR, LEFT REAR, M15 . . . . . 5126.0-01
DOOR LOCK MOTOR, PASSENGER'S, M13 . . . . . 5126.0-00
DOOR LOCK MOTOR, RIGHT REAR M14 . . . . . 5126.0-01
DOOR LOCK SWITCH, DRIVER'S, S47 . . . . . 5126.0-02
DOOR LOCK SWITCH, PASSENGER'S, S49 . . . . . 5126.0-02
DOUBLE TEMPERATURE SWITCH, S36y 6450.7-06
DRIVE–AWAY PROTECTION (EWS II) 6135.0
DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE), B6256 . . . . . 1210.17-02
DWA LED 6575.2-00
ELECTRICAL CONVERTIBLE TOP 5430.1
ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II), A836 . . . . . 6135.0
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 2460.2
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z) 2460.4
ENGINE CONTROL MODULE (DME), A6000 . . . . . 1210.
ENGINE CONTROL MODULE RELAY, K6300 . . . . . 1210.
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44) 1210.20
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52) 1210.17
ENGINE COOLANT LEVEL SWITCH, S63 . . . . . 6581.2-02
ENGINE COOLANT TEMPERATURE SENSOR, B6232 1210.20-05
ENGINE COOLANT TEMPERATURE SENSOR, B6236 1210.17-02
ENGINE HOOD SWITCH, S21w 6575.2-02
EVAPORATIVE EMISSION VALVE, Y6120 . . . . . 1210.
EVAPORATOR TEMPERATURE SENSOR, B14 . . . . . 6450.7-02
EXHAUST GAS FLAP VALVE, Y198 . . . . . 1210.17-09
FINAL STAGE UNIT, N2 . . . . . 6450.7-00
FOG LIGHT RELAY, FRONT, K47 . . . . . 6312.0-00
FOG LIGHT SWITCH, S10 . . . . . 6312.0-00
FOG LIGHT, LEFT, E26 . . . . . 6312.0-00
FOG LIGHT, RIGHT, E27 . . . . . 6312.0-00
FOOTWELL LIGHT, LEFT FRONT, E61 . . . . . 6330.3
FOOTWELL LIGHT, RIGHT FRONT, E62 . . . . . 6330.3
FRESH AIR FLAP MOTOR, M36 . . . . . 6450.7-00
FUEL CHANGEOVER VALVE, Y6263 . . . . . 1210.20-09
FUEL INJECTION VALVE, CYL. 1, Y6101 . . . . . 1210.
FUEL INJECTION VALVE, CYL. 2, Y6102 . . . . . 1210.

INDEX

FUEL INJECTION VALVE, CYL. 3, Y6103 . . . . . 1210.
FUEL INJECTION VALVE, CYL. 4, Y6104 . . . . . 1210.
FUEL INJECTION VALVE, CYL. 5, Y6105 . . . . . 1210.17-01
FUEL INJECTION VALVE, CYL. 6, Y6106 . . . . . 1210.17-01
FUEL LEVEL SENSOR, B6 . . . . . 6211.0-04
FUEL PUMP RELAY, CYL. 1–6, K6301 . . . . . 1210.
FUEL PUMP RELAY, K6301w 1210.17-04
FUEL PUMP, M2 . . . . . 1210.
FUEL TANK PRESSURE SENSOR, B72 . . . . . 1210.17-10
FUEL TANK PRESSURE SENSOR, B72 . . . . . 1210.20-05
FUEL TANK SENSOR II, B25y 6211.0-04
FUSE CHART 0670.1
FUSE DETAILS 0670.3
GAS FILLER LOCK MOTOR, M16 . . . . . 5126.0-00
GEAR SHIFT LEVER INDICATOR, E96 . . . . . 6300.0-01
GENERATOR, G6509 . . . . . 1230.0-00
GLOVE BOX LIGHT, E42 . . . . . 6332.1-00
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER 6332.1
GLOVE BOX LOCK MOTOR, M107 . . . . . 5126.0-00
GROUND DISTRIBUTION 0670.4
HALL EFFECT CAMSHAFT SENSOR, B6209 . . . . . 1210.20-04
HARD TOP CONNECTOR 1, E99 . . . . . 5430.1-00
HARD TOP CONNECTOR 2, E100y 6330.3-03
HAZARD FLASHER RELAY, K16 . . . . . 6313.0-00
HAZARD SWITCH, S18 . . . . . 6313.0-01
HEADLIGHT WASHER (SRA) 6167.1
HEADLIGHT, LEFT, E7 . . . . . 6313.0-02
HEADLIGHT, LEFT, E7 . . . . . 6314.0-01
HEADLIGHT, RIGHT, E8 . . . . . 6313.0-02
HEADLIGHT, RIGHT, E8 . . . . . 6314.0-01
HEADLIGHT/FOG LIGHT WASHER PUMP, M7 . . . . . 6167.1-00
HEADLIGHTS/FOG LIGHTS 6312.0
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 . . . . . 6410.5-01
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 . . . . . 6450.7-02
HEAT EXCHANGER TEMPERATURE SENSOR, RH, B12 . . . . . 6450.7-02
HEATED SEATS 5203.0
HIFI AMPLIFIER, A18 . . . . . 6510.1-00
HIGH BEAM LIGHT RELAY, K46 . . . . . 6312.0-01
HIGH BEAM LIGHT, E12 . . . . . 6312.0-01
HIGH BEAM LIGHT, LEFT, E11 . . . . . 6312.0-01
HIGH LEVEL STOP LIGHT, H34 . . . . . 6325.0
HIGH LEVEL STOP LIGHT/REAR SPOILER, H34z 6325.0
HIGH RANGE SPEAKER, LEFT FRONT, H59 . . . . . 6510.0-00
HIGH RANGE SPEAKER, LEFT FRONT, H59 . . . . . 6510.1-01
HIGH RANGE SPEAKER, LEFT REAR, H56 . . . . . 6510.1-01
HIGH RANGE SPEAKER, RIGHT FRONT, H50 . . . . . 6510.0-00
HIGH RANGE SPEAKER, RIGHT FRONT, H50 . . . . . 6510.1-02
HIGH RANGE SPEAKER, RIGHT REAR, H53 . . . . . 6510.1-02
HIGH SPEED RELAY, K22 . . . . . 6450.7-05
HIGH SPEED RELAY, K22 . . . . . 6450.7-06
HORN 6133.0
HORN RELAY (ALPINE), K108 . . . . . 6575.2-02

INDEX

HORN RELAY, K2 . . . . . 6133.0-00
HORN SWITCH, S4 . . . . . 6133.0-00
HORN, LEFT, H2 . . . . . 6133.0-00
HORN, RIGHT, H3 . . . . . 6133.0-00
HOT FILM AIR MASS METER, B6207 . . . . . 1210.17-05
HOT FILM AIR MASS METER, B6217 . . . . . 1210.20-06
IDLE SPEED CONTROL VALVE, Y6130 . . . . . 1210.
IGNITION COIL, CYL. 1, T6151 . . . . . 1210.
IGNITION COIL, CYL. 2, T6152 . . . . . 1210.
IGNITION COIL, CYL. 3, T6153 . . . . . 1210.
IGNITION COIL, CYL. 4, T6154 . . . . . 1210.
IGNITION COIL, CYL. 5, T6155 . . . . . 1210.17-03
IGNITION COIL, CYL. 6, T6156 . . . . . 1210.17-03
IGNITION SWITCH, S2 . . . . . 0670.2-04
INDEX 0100.0
INSTRUMENT CLUSTER 6211.0
INSTRUMENT CLUSTER, A2w 6211.0
INTAKE AIR RESONANCE CHANGEOVER VALVE, Y6131 . . . . . 1210.20-01
INTAKE AIR TEMPERATURE SENSOR, B6205 . . . . . 1210.
INTEGRATED CLIMATE REGULATION (IHKA E36) 6450.7
INTERIOR LIGHT, LEFT REAR, E39 . . . . . 6330.3
INTERIOR LIGHT, RIGHT REAR E40 . . . . . 6330.3
INTERIOR LIGHTS 6330.3
INTERMEDIATE PRESSURE SWITCH, B9 . . . . . 6450.7
INTRODUCTION 0110.0
JET HEATER THERMOSWITCH, S198 . . . . . 6169.0-00
KICK–DOWN SWITCH, S8507 . . . . . 2460.
KNOCK SENSOR, B6240 . . . . . 1210.17-06
KNOCK SENSOR, B6240 . . . . . 1210.20-05
LICENSE PLATE LIGHT, LEFT, E43 . . . . . 6320.0-00
LICENSE PLATE LIGHT, RIGHT, E44 . . . . . 6320.0-00
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS 6320.0
LIGHT SWITCH DETAILS 6300.0
LIGHT SWITCH, S8 . . . . . 6300.0-00
LOW BEAM LIGHT RELAY, K48 . . . . . 6312.0-01
LOW BEAM LIGHT, LEFT, E13 . . . . . 6312.0-01
LOW BEAM LIGHT, RIGHT, E14 . . . . . 6312.0-01
LOW RANGE SPEAKER, LEFT FRONT, H58 . . . . . 6510.0-00
LOW RANGE SPEAKER, LEFT FRONT, H58 . . . . . 6510.1-01
LOW RANGE SPEAKER, LEFT REAR, H57 . . . . . 6510.1-01
LOW RANGE SPEAKER, RIGHT FRONT, H51 . . . . . 6510.0-00
LOW RANGE SPEAKER, RIGHT FRONT, H51 . . . . . 6510.1-02
LOW RANGE SPEAKER, RIGHT REAR, H52 . . . . . 6510.1-02
LOW–NOISE MICROPHONE 6575.2-00
LUGGAGE COMPARTMENT LID MICRO SWITCH, S213 . . . . . 5430.1-02
LUGGAGE COMPARTMENT LID RELAY, K117 . . . . . 5126.0-01
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, LEFT, E46 . . . . . 6313.0-02
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, LEFT, E46 . . . . . 6314.0-01
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, LEFT, E46 . . . . . 6325.0
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, LEFT, E46 . . . . . 6581.2-03

LUGGAGE COMPARTMENT LIGHT ASSEMBLY, LEFT, E46 . . . . . 6581.2-04
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, LEFT, E46 . . . . . 6322.0-00
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, RIGHT, E47 . . . . . 6313.0-02
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, RIGHT, E47 . . . . . 6314.0-01
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, RIGHT, E47 . . . . . 6322.0-00
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, RIGHT, E47 . . . . . 6325.0
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, RIGHT, E47 . . . . . 6581.2-03
LUGGAGE COMPARTMENT LIGHT ASSEMBLY, RIGHT, E47 . . . . . 6581.2-04
LUGGAGE COMPARTMENT LIGHT SWITCH, S61y . . . 6320.0-01
LUGGAGE COMPARTMENT LIGHT, E32 . . . . . 6320.0-01
LUGGAGE COMPARTMENT LIGHT, LEFT, E101 . . . . . 6320.0-01
LUGGAGE COMPARTMENT LIGHT, RIGHT, E102 . . . . . 6320.0-01
LUGGAGE COMPARTMENT LOCK MOTOR, M17 . . . . . 5126.0-01
MAKE–UP MIRROR LIGHT, DRIVER'S, E35 . . . . . 6330.3-03
MAKE–UP MIRROR LIGHT, PASSENGER'S, E36 . . . . . 6330.3-03
MAKE–UP MIRROR SWITCH, DRIVER'S, S77 . . . . . 6330.3-03
MAKE–UP MIRROR SWITCH, PASSENGER'S, S78 . . . 6330.3-03
MID–HIGH RANGE SPEAKER, LEFT, H42 . . . . . 6510.1-01
MID–HIGH RANGE SPEAKER, RIGHT, H43 . . . . . 6510.1-02
MIDRANGE SPEAKER, LEFT FRONT, H55 . . . . . 6510.1-01
MIDRANGE SPEAKER, RIGHT FRONT, H54 . . . . . 6510.1-02
MIRROR CONTROL SWITCH, S17 . . . . . 5116.0-00
MIRROR, DRIVER'S SIDE, Y5 . . . . . 5116.0-01
MIRROR, PASSENGER'S SIDE, Y6 . . . . . 5116.0-01
MIRROR, PASSENGER'S SIDE, Y6 . . . . . 6412.20-00
MULTI–FUNCTION CLOCK 6213.2
MULTI–FUNCTION CLOCK, N10 . . . . . 6213.2
NORMAL SPEED RELAY, K21 . . . . . 6450.7-05
NORMAL SPEED RELAY, K21 . . . . . 6450.7-06
OBD II CONNECTOR, D110 . . . . . 0670.5
OIL PRESSURE SWITCH, B6231 . . . . . 6211.0-00
OIL TEMPERATURE SENSOR, B6238 . . . . . 6211.0-04
ON–BOARD COMPUTER (BC V) 6581.2
ON–BOARD COMPUTER TEMPERATURE SENSOR, B21 . . . . . 6213.2
ON–BOARD COMPUTER TEMPERATURE SENSOR, B21 . . . . . 6581.2-00
ON–BOARD COMPUTER, N4 . . . . . 6581.2-00
ON–BOARD DISPLAY 6214.0
ON–BOARD DISPLAY, A35 . . . . . 6214.0-00
OUTSIDE TEMPERATURE SENSOR, B13 . . . . . 6450.7-02
OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER), B62002 . . . . . 1210.20-04
OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER), B62001 . 1210.20-04
OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER), B62102 . . . . . 1210.17-04
OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER), B62101 . 1210.17-04

OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER), B62202 ..... 1210.17-04
OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER), B62201 . 1210.17-04
PARK BRAKE SWITCH, S31 ..... 6211.0-00
PARK LIGHT, LEFT, E15 ..... 6314.0-01
PARK LIGHT, RIGHT, E19 ..... 6314.0-01
PARK VENTILATION RELAY, K450 ..... 6412.
PARK VENTILATION RELAY, K450 ..... 6412.10-01
PARK VENTILATION WITH HR 6412.10
PARK VENTILATION WITH IHKA E36 ..... 6412.20
PARK/TAIL/UNDERHOOD LIGHTS 6314.0
POWER DISTRIBUTION 0670.2
POWER DISTRIBUTION BOX, FRONT, P90 ..... 0670.2-00
POWER DISTRIBUTION CHART 0670.0
POWER MIRRORS 5116.0
POWER SEATS 5200.0
POWER TILT/SLIDE SUNROOF (SHD) 5410.1
POWER WINDOW SWITCH, DRIVER'S, S126y 5133.1-01
POWER WINDOW SWITCH, PASSENGER'S, S127y 5133.1-01
POWER WINDOWS (FH) 5133.1
PRESSURE SWITCH, B8y 6450.7
PRESSURE SWITCH, B9508 ..... 6450.7
PROGRAM SWITCH, S8503 ..... 2460.
PYROTECHNICAL BELT TENSIONER, DRIVER'S SIDE, G12 ..... 3234.0-00
PYROTECHNICAL BELT TENSIONER, PASSENGER'S SIDE, G13 ..... 3234.0-00
RADIO, N9 ..... 6510.0-00
RADIO, N9 ..... 6510.1
RADIO/HIFI 6510.1
RADIO/STEREO 6510.0
REAR DOOR (CONSOLE) POWER WINDOW SWITCH, LH, S128y 5133.1-02
REAR DOOR (CONSOLE) POWER WINDOW SWITCH, RH, S129y 5133.1-02
REAR DOOR POWER WINDOW SWITCH (DOOR), LH, S41y 5133.1-02
REAR DOOR POWER WINDOW SWITCH (DOOR), RH, S42y 5133.1-02
REAR POWER WINDOW SWITCH, LH, S128z 5133.1-03
REAR POWER WINDOW SWITCH, RH, S129z 5133.1-03
RECIRCULATION FLAP MOTOR, M40 ..... 6450.7-03
RECIRCULATION FLAP MOTOR, REAR, M46 ..... 6450.7-03
REGULATION FLAP MOTOR, M44 ..... 6450.7-03
RELAY MODULE, A5 ..... 5133.1-05
REVERSING LIGHT SWITCH, S8511 ..... 6322.0-00
ROLLOVER PROTECTION ACTUATOR, LH, Y85 ..... 5430.1-03
ROLLOVER PROTECTION ACTUATOR, RH, Y86 ..... 5430.1-03
ROLLOVER SENSOR, N24 ..... 5430.1-03
SEAT BELT SWITCH, DRIVER'S, S58 ..... 3234.0-01
SEAT BELT SWITCH, DRIVER'S, S58 ..... 3234.0-02
SEAT BELT SWITCH, PASSENGER'S, S59 ..... 3234.0-01
SEAT BELT SWITCH, PASSENGER'S, S59 ..... 3234.0-02
SEAT CONTROL SWITCH, DRIVER'S SEAT, S51 ..... 5200.0-00
SEAT CONTROL SWITCH, PASSENGER'S SEAT, S56 . 5200.0-01

SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-00
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 .. 5200.0-01
SEAT HEATER SWITCH, DRIVER'S SEAT, S53 ..... 5203.0-00
SEAT HEATER SWITCH, PASSENGER'S SEAT, S54 .. 5203.0-00
SEAT HEATER, DRIVER'S, E57 ..... 5203.0-00
SEAT HEATER, PASSENGER'S, E58 ..... 5203.0-00
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT LUMBAR SUPPORT MOTOR/VALVE, DRIVER'S, M55z 5200.0-02
SEAT LUMBAR SWITCH, DRIVER'S, S52 ..... 5200.0-02
SEAT MAT, I1008 ..... 3234.0-03
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-00
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 .... 5200.0-01
SEAT OCCUPANCY DETECTOR, A113 ..... 3234.0-00
SEATBACK HEATER, DRIVER'S, E56 ..... 5203.0-00
SEATBACK HEATER, PASSENGER'S, E59 ..... 5203.0-00
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 5200.0-01
SECONDARY AIR PUMP RELAY, K6304 ..... 1210.17-05
SECONDARY AIR PUMP RELAY, Y6304 ..... 1210.20-09
SECONDARY AIR PUMP VALVE, Y6163 ..... 1210.17-05
SECONDARY AIR PUMP VALVE, Y6163 ..... 1210.20-09
SHIFT–LOCK, Y19 ..... 2460.
SIDE AIR BAG GAS GENERATOR, LEFT, G14 ..... 3234.0-01
SIDE IMPACT SENSOR, DRIVER'S, B78 ..... 3234.0-01
SIDE IMPACT SENSOR, PASSENGER'S, B79 ..... 3234.0-01
SLIP CONTROL (ABS) 3450.0
SLIP CONTROL (ABS/ASC) 3450.1
SLIP CONTROL MODULE (ABS/ASC), A52 ..... 3450.1
SOLENOID VALVE ("RUNNING LOSSES"), Y6550 .... 1210.17-05
SPATIAL SOUND RELAY, K128 ..... 6424.0-02
SPATIAL SOUND SWITCH, S303 ..... 6510.1
SPEAKER, LEFT REAR, H46 ..... 6510.0-00
SPEAKER, LEFT REAR, H46 ..... 6510.1-01
SPEAKER, RIGHT REAR, H45 ..... 6510.0-00
SPEAKER, RIGHT REAR, H45 ..... 6510.1-02
SPEED SENSOR – ABS, LEFT FRONT, B2 ..... 3450.0-01
SPEED SENSOR – ABS, LEFT FRONT, B2 ..... 3450.1
SPEED SENSOR – ABS, LEFT REAR, B4 ..... 3450.0-01
SPEED SENSOR – ABS, LEFT REAR, B4 ..... 3450.1
SPEED SENSOR – ABS, RIGHT FRONT, B1 ..... 3450.0-01
SPEED SENSOR – ABS, RIGHT FRONT, B1 ..... 3450.1
SPEED SENSOR – ABS, RIGHT REAR, B3 ..... 3450.0-01
SPEED SENSOR – ABS, RIGHT REAR, B3 ..... 3450.1
SPLICE LOCATION VIEWS 8000.0
START 1240.0
STARTER IMMOBILIZATION SWITCH, S235 ..... 6135.0-00
STARTER, M6510 ..... 1240.0-02
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 ..... 3234.0
SUPPRESSION FILTER, C900 ..... 6424.0
SYMBOLS 0140.0
TAIL LIGHT, LEFT, H25 ..... 6314.0-01
TAIL LIGHT, LEFT, H37 ..... 6314.0-01

TAIL LIGHT, RIGHT, H30 . . . . . 6314.0-01
TAIL LIGHT, RIGHT, H39 . . . . . 6314.0-01
TELEPHONE CONNECTOR 6561.0
TEMPERATURE SWITCH, S36 . . . . . 6450.7-05
THERMOSTAT, A32y 6410.5
THROTTLE POSITION SENSOR, R6252 . . . . . 1210.
TILT/SLIDE SUNROOF CONTROL ASSEMBLY, A56 . . . 5410.1-00
TILT/SLIDE SUNROOF SWITCH (SHD), S38 . . . . . 5410.1-00
TRANSMISSION CONTROL MODULE (EGS), A7000 . . 2460.4-00
TRANSMISSION CONTROL MODULE (EGS), A8500 . . 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 . . 6300.0-01
TRANSMISSION VALVE UNIT, Y8505 . . . . . 2460.2-01
TRANSMISSION VALVE UNIT, Y8505y 2460.2-07
TRANSMISSION VALVE UNIT, Y8505y 2460.4-01
TRANSMITTER MODULE (EWS II), A835 . . . . . 6135.0
TURN LIGHT, LEFT FRONT, H7 . . . . . 6313.0-02
TURN LIGHT, LEFT REAR, H6 . . . . . 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 . . . . . 6313.0-02
TURN LIGHT, RIGHT REAR, H5 . . . . . 6313.0-02
TURN/HAZARD LIGHTS 6313.0
UNCOUPLING DIODE, V6 . . . . . 6412.20-00
UNLOADER RELAY, TERMINAL 15, K6326 . . . . . 1210.
UNLOADER RELAY, TERMINAL 15, K9 . . . . . 5203.0-00
VARIABLE CAMSHAFT CONTROL VALVE 1, Y6275 . . 1210.17-05
VEHICLE SPEED SENSOR, B10 . . . . . 6211.0-04
WASHER FLUID LEVEL SWITCH, S64 . . . . . 6581.2-02
WASHER JET HEATER, LEFT, E51 . . . . . 6169.0-00
WASHER JET HEATER, RIGHT, E52 . . . . . 6169.0-00
WASHER PUMP, M4 . . . . . 6160.1-01
WATER VALVE ASSEMBLY, Y4 . . . . . 6410.5-00
WATER VALVE ASSEMBLY, Y4 . . . . . 6450.7-01
WINDOW BLOWER MICRO SWITCH, REAR, S196 . . . . 5430.1-01
WINDOW BLOWER RELAY, REAR,K99 . . . . . 6424.0-01
WINDOW BLOWER, REAR, M105 . . . . . 6424.0-01
WINDOW DEFOGGER/ANTENNA, REAR, ... 6424.0
WINDOW MOTOR, DRIVER'S, M21 . . . . . 5133.1-04
WINDOW MOTOR, LEFT REAR, M20 . . . . . 5133.1-05
WINDOW MOTOR, LEFT REAR, M98 . . . . . 5133.1-05
WINDOW MOTOR, PASSENGER'S, M23 . . . . . 5133.1-04
WINDOW MOTOR, RIGHT REAR, M22 . . . . . 5133.1-05
WINDOW MOTOR, RIGHT REAR, M99 . . . . . 5133.1-05
WINDSCREEN COWL PANEL LOCK MICRO SWITCH, S231 . . . . . 5430.1-00
WINDSCREEN COWL PANEL LOCK MOTOR, M132 . . . 5430.1-00
WINDSHIELD WASHER JET HEATERS 6169.0
WIPER MOTOR, M3 . . . . . 6160.1
WIPER/WASHER MODULE (LOW II), A64 . . . . . 6160.1-00
WIPER/WASHER MODULE (WWM) 6160.1
WIPER/WASHER MODULE, A51 . . . . . 6160.1-01
WIPER/WASHER SWITCH, S5 . . . . . 6160.1
ZKE CENTRAL LOCKING (ZV) 5126.0
ZKE DOOR LOCK HEATING (TSH) 5120.0

Schematics

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self–explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

Important: The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells **0670.3 Fuse Details** and **0670.4 Ground Distribution** where all lines are illustrated with all plug connections, line branches and connected components.

All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

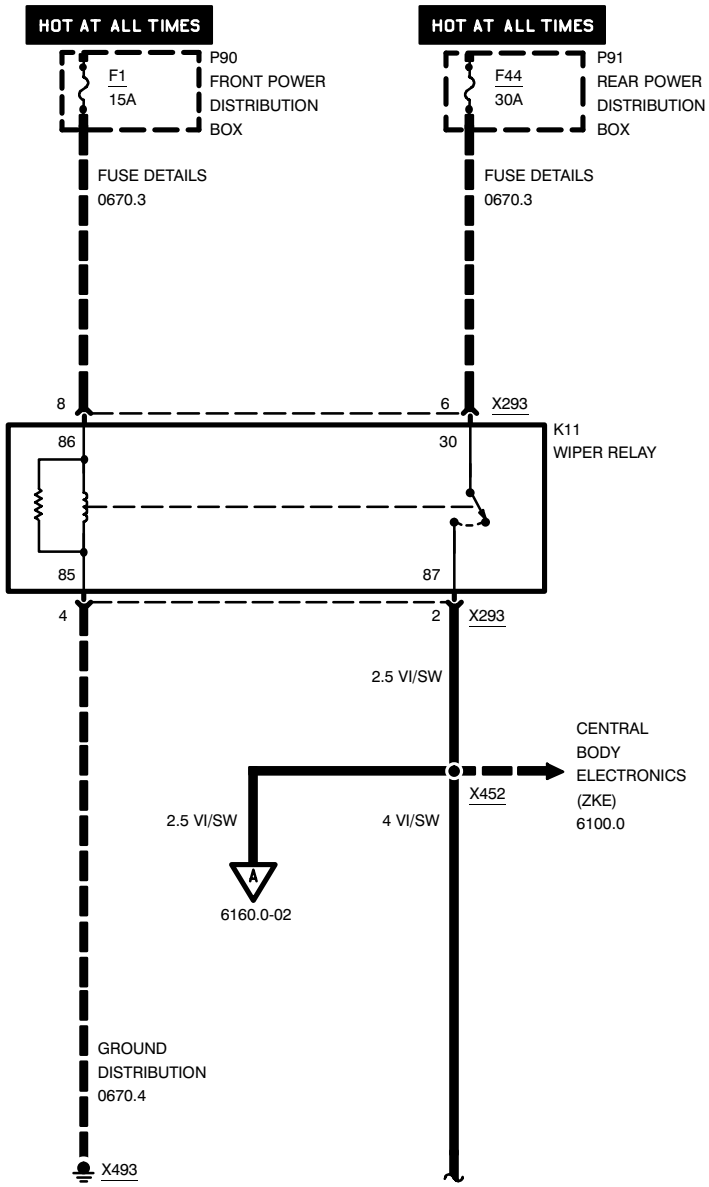
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC, etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

Example

General conventions can be explained based on the following schematic example.



General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).

2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).

3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).

4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.

5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.

6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.

7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors, and cross sections.

8. The interrupted line from splice X452 with an **A** in the open arrow is continued on page 6160.0–02.
Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

0140.0 SYMBOLS


BATTERY


FUSE DETAILS

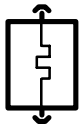

FUSIBLE LINK


CIRCUIT BREAKER


THERMO SWITCH

SOLENOID


SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID


HEATING ELEMENT


LOUDSPEAKER OR HORN


LIGHT


PERMANENT MAGNET MOTOR ONE SPEED


PERMANENT MAGNET MOTOR TWO SPEEDS


KNOCK SENSOR


VARIABLE RESISTANCE SENSOR VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE


VARIABLE RESISTOR RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE

DIODE CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


ZENER DIODE TO REGULATE VOLTAGE


LIGHT EMITTING DIODE


OXYGEN SENSOR


ANTENNA


CONTROL/POWER ELECTRONICS


HALL EFFECT SENSOR


RADIO



TRANSISTORIZED SWITCH

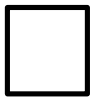


INDUCTIVE SENSOR

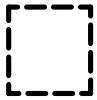


VEHICLE SPEED SENSOR

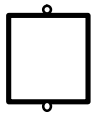
SYMBOLS



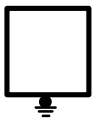
ENTIRE COMPONENT SHOWN



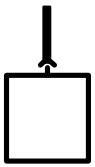
PART OF COMPONENT SHOWN



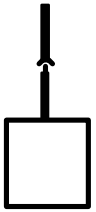
COMPONENT WITH SCREW TERMINALS



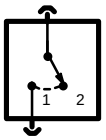
COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)



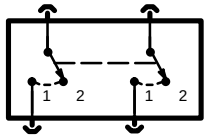
CONNECTOR ATTACHED TO COMPONENT



CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



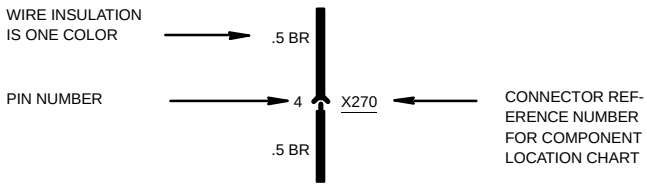
ONE POLE, TWO POSITION SWITCH

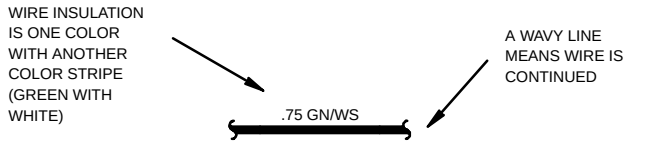


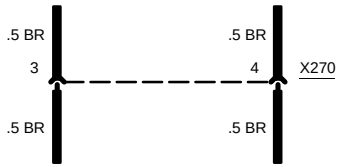
SWITCHES THAT MOVE TOGETHER

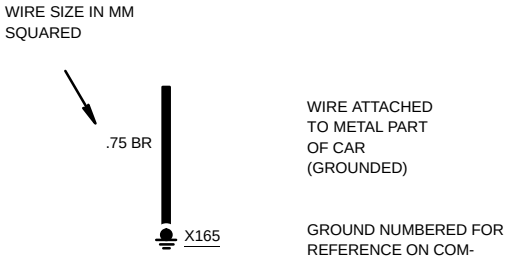
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT

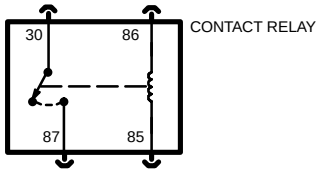




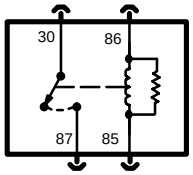




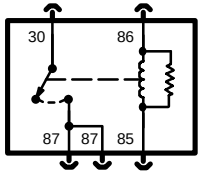
SYMBOLS



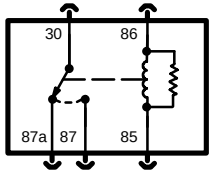
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

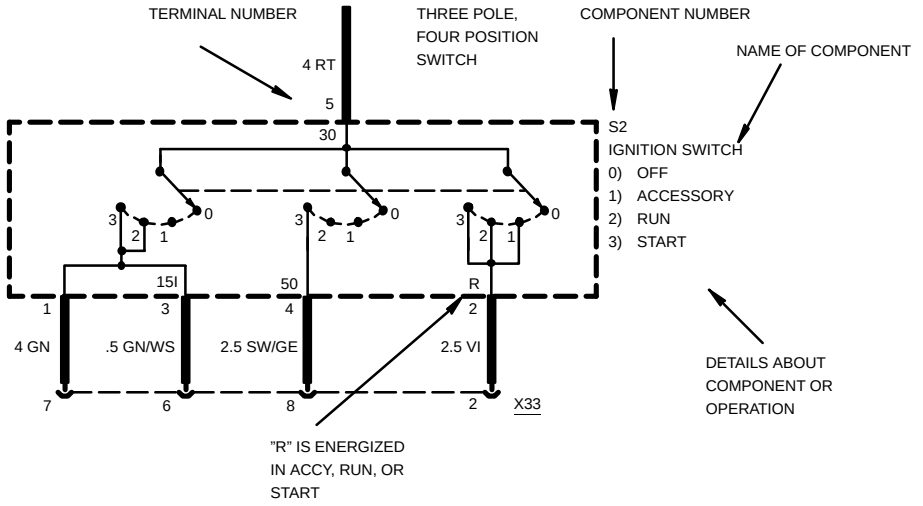


CONTACT RELAY WITH TWO OUTPUTS

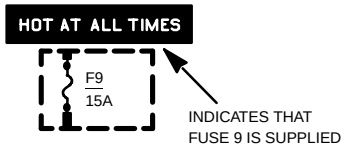


CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)

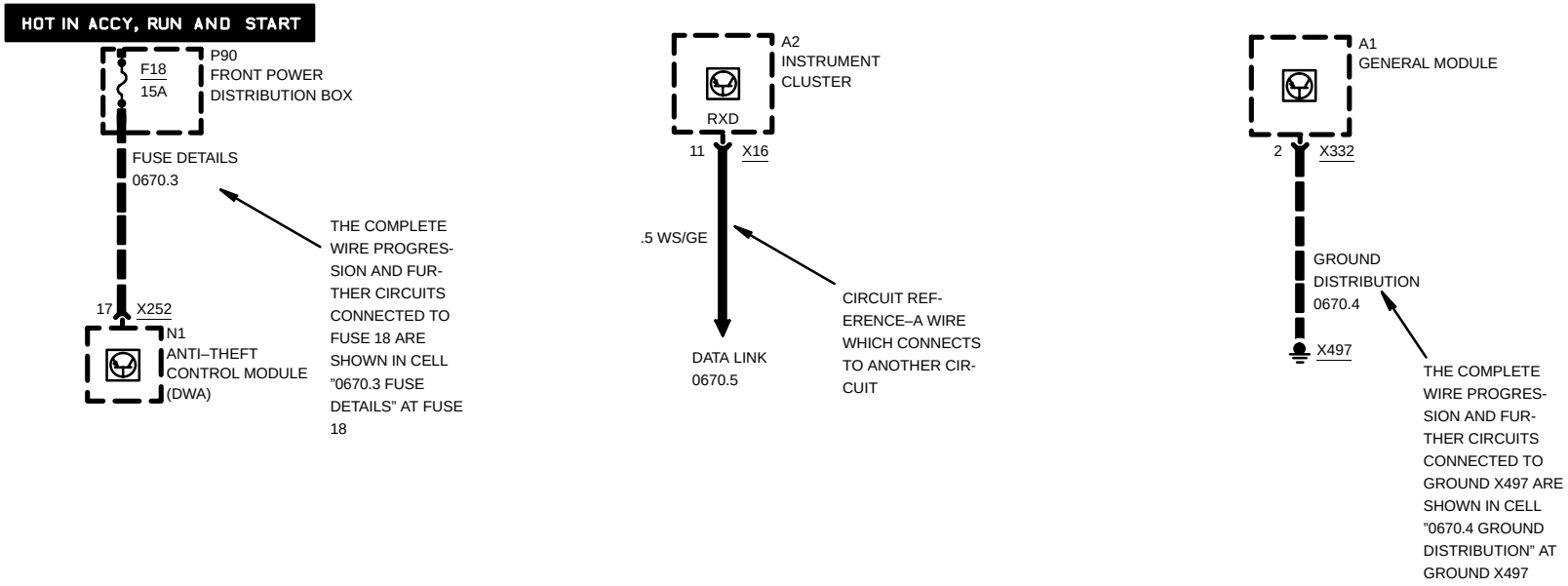


TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND



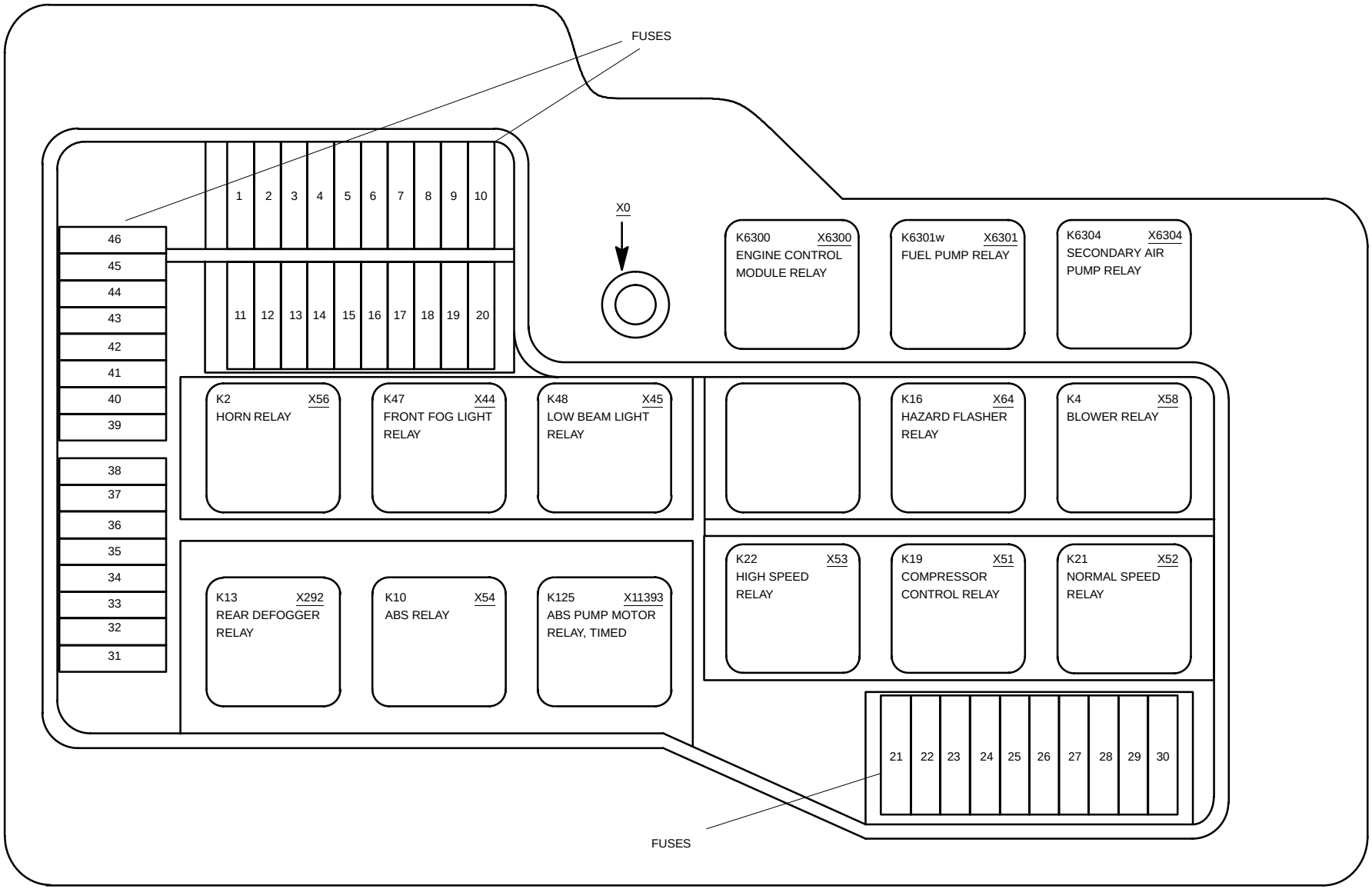
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

SYMBOLS


HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18
17
X252
N1
ANTI–THEFT
CONTROL MODULE
(DWA)
A2
INSTRUMENT
CLUSTER
RXD
11
X16
.5 WS/GE
CIRCUIT REFERENCE–A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT
DATA LINK
0670.5
A1
GENERAL MODULE
2
X332
GROUND
DISTRIBUTION
0670.4
X497
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497
N9
RADIO
15
X18126
1.5 BR
L
CURRENT PATH IS CONTINUED AS LABELED
0670.0-03
0670.0-02
L
ARROW SHOWS DIRECTION OF CURRENT FLOW AND IS REPEATED WHERE CURRENT PATH CONTINUES
1.5 BR
X491

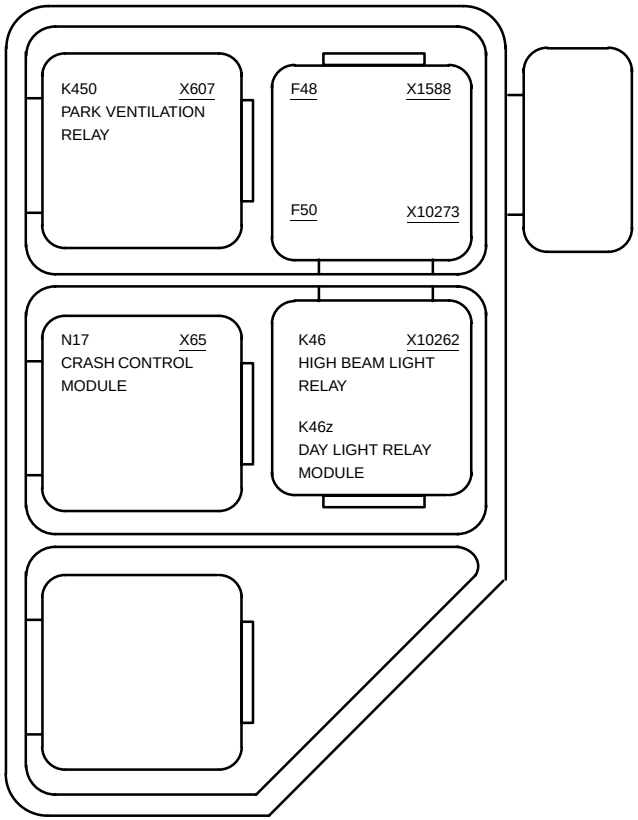
0670.0 POWER DISTRIBUTION CHART

FRONT POWER DISTRIBUTION BOX



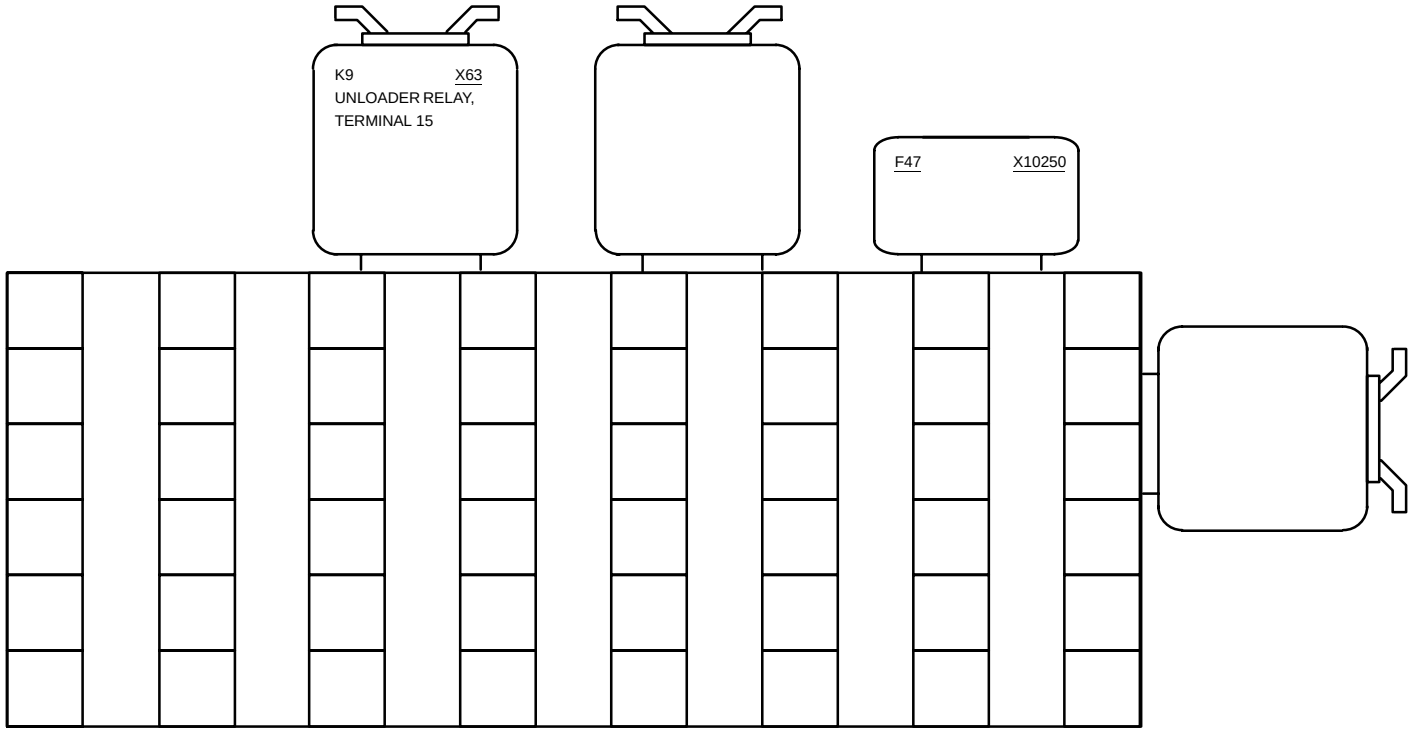
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



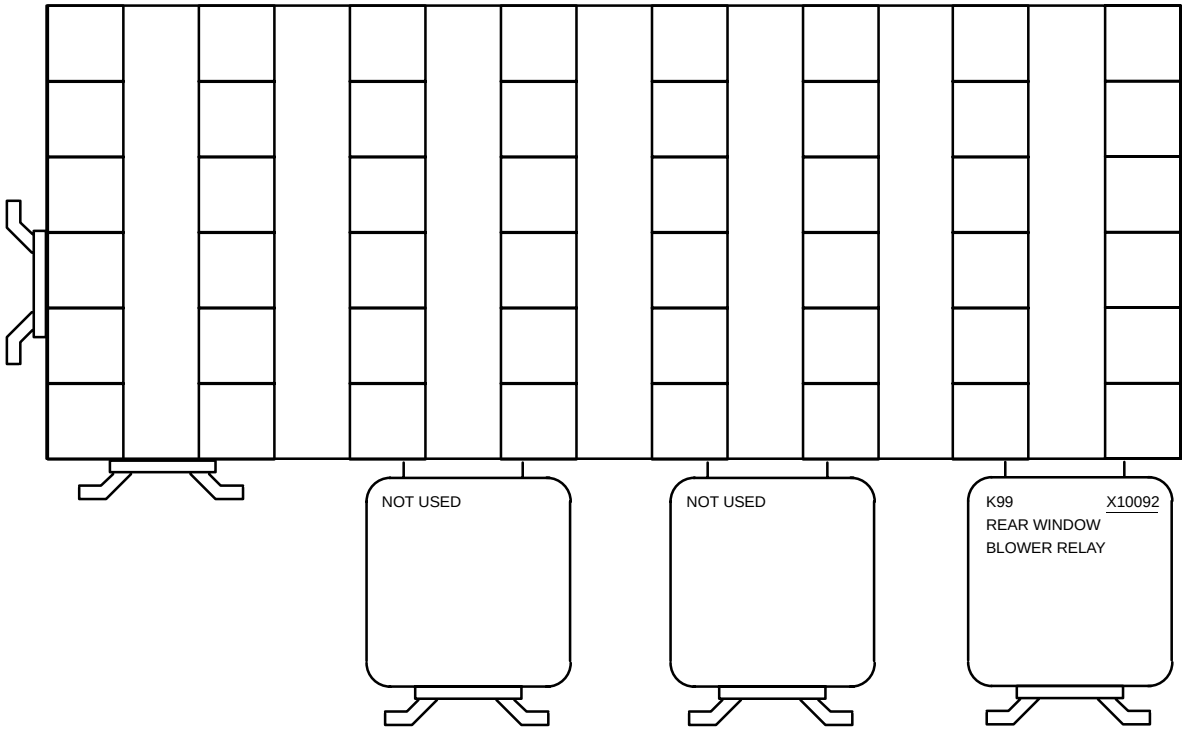
POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



0670.1 FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	5A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)																●		●											
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)		●														●		●											
1230.0	CHARGING SYSTEM																													
1240.0	START																												●	
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)																										●		●	
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																										●		●	
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																											●		
3450.0	SLIP CONTROL (ABS)										●											●						●		
3450.1	SLIP CONTROL (ABS/ASC)										●											●						●		
5116.0	POWER MIRRORS																								●					
5120.0	ZKE DOOR LOCK HEATING (TSH)							●																						
5126.0	ZKE CENTRAL LOCKING (ZV)							●																					●	
5133.1	POWER WINDOWS (FH)														●					●										
5200.0	POWER SEATS					●																								
5203.0	HEATED SEATS				●																			●						
5410.1	POWER TILT/SLIDE SUNROOF (SHD)	●																												
5430.1	ELECTRICAL CONVERTIBLE TOP							●																	●			●		
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)														●															
6133.0	HORN								●																					
6135.0	DRIVE–AWAY PROTECTION (EWS II)																												●	

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	5A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6160.1	WIPER/WASHER MODULE (WWM)			●																										
6167.1	HEADLIGHT WASHER (SRA)			●																										
6169.0	WINDSHIELD WASHER JET HEATERS																								●					
6211.0	INSTRUMENT CLUSTER																							●				●		
6213.1	ANALOG CLOCK																													
6213.2	MULTI–FUNCTION CLOCK																							●				●		
6214.0	ON–BOARD DISPLAY																							●				●		
6300.0	LIGHT SWITCH DETAILS																						●			●				
6312.0	HEADLIGHTS/FOG LIGHTS											●	●			●								●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL/UNDERHOOD LIGHTS																													
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS																													
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER																													
6350.0	CRASH CONTROL MODULE																													
6410.5	HEATING CONTROL (HR)																				●			●						
6412.10	PARK VENTILATION WITH HR																				●									
6412.20	PARK VENTILATION WITH IHKA E36																				●									

FUSE CHART

FUSES 1 TO 29

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		30A	5A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	15A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6424.0	REAR WINDOW DEFOGGER/ANTENNA						●																	●						
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)																●				●			●						
6510.0	RADIO/STEREO									●																				
6510.1	RADIO/HIFI/TOP HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI–THEFT SYSTEM (ALPINE)																													
6581.2	ON–BOARD COMPUTER (BC V)											●	●											●				●		

FUSE CHART

FUSES 30 TO 50

		FUSE NUMBER																														
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50										
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A	20A	5A										
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)										●							●				●										
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)										●							●														
1230.0	CHARGING SYSTEM																															
1240.0	START		●														●															
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)																	●														
2460.4	ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)																	●														
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)													●																		
3450.0	SLIP CONTROL (ABS)									●								●														
3450.1	SLIP CONTROL (ABS/ASC)									●								●														
5116.0	POWER MIRRORS																															
5120.0	ZKE DOOR LOCK HEATING (TSH)						●																									
5126.0	ZKE CENTRAL LOCKING (ZV)		●				●										●															
5133.1	POWER WINDOWS (FH)																															
5200.0	POWER SEATS											●																				
5203.0	HEATED SEATS																															
5410.1	POWER TILT/SLIDE SUNROOF (SHD)																															
5430.1	ELECTRICAL CONVERTIBLE TOP													●	●						●											
6100.0	CENTRAL BODY ELECTRONICS (ZKE IV)				●		●								●																	
6133.0	HORN																															
6135.0	DRIVE–AWAY PROTECTION (EWS II)		●														●															

FUSE CHART

FUSES 30 TO 50

		FUSE NUMBER																													
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50									
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A	20A	5A									
6160.1	WIPER/WASHER MODULE (WWM)							●	●							●															
6167.1	HEADLIGHT WASHER (SRA)							●								●															
6169.0	WINDSHIELD WASHER JET HEATERS																														
6211.0	INSTRUMENT CLUSTER		●														●	●													
6213.1	ANALOG CLOCK		●																												
6213.2	MULTI–FUNCTION CLOCK		●														●	●													
6214.0	ON–BOARD DISPLAY		●														●	●													
6300.0	LIGHT SWITCH DETAILS				●				●																						
6312.0	HEADLIGHTS/FOG LIGHTS	●																													
6313.0	TURN/HAZARD LIGHTS					●																									
6314.0	PARK/TAIL/UNDERHOOD LIGHTS				●				●																						
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS				●				●																						
6322.0	BACK UP LIGHTS																														
6325.0	BRAKE LIGHTS																	●													
6330.3	INTERIOR LIGHTS				●										●																
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER			●	●				●							●															
6350.0	CRASH CONTROL MODULE					●																									
6410.5	HEATING CONTROL (HR)																														
6412.10	PARK VENTILATION WITH HR																														
6412.20	PARK VENTILATION WITH IHKA E36																														

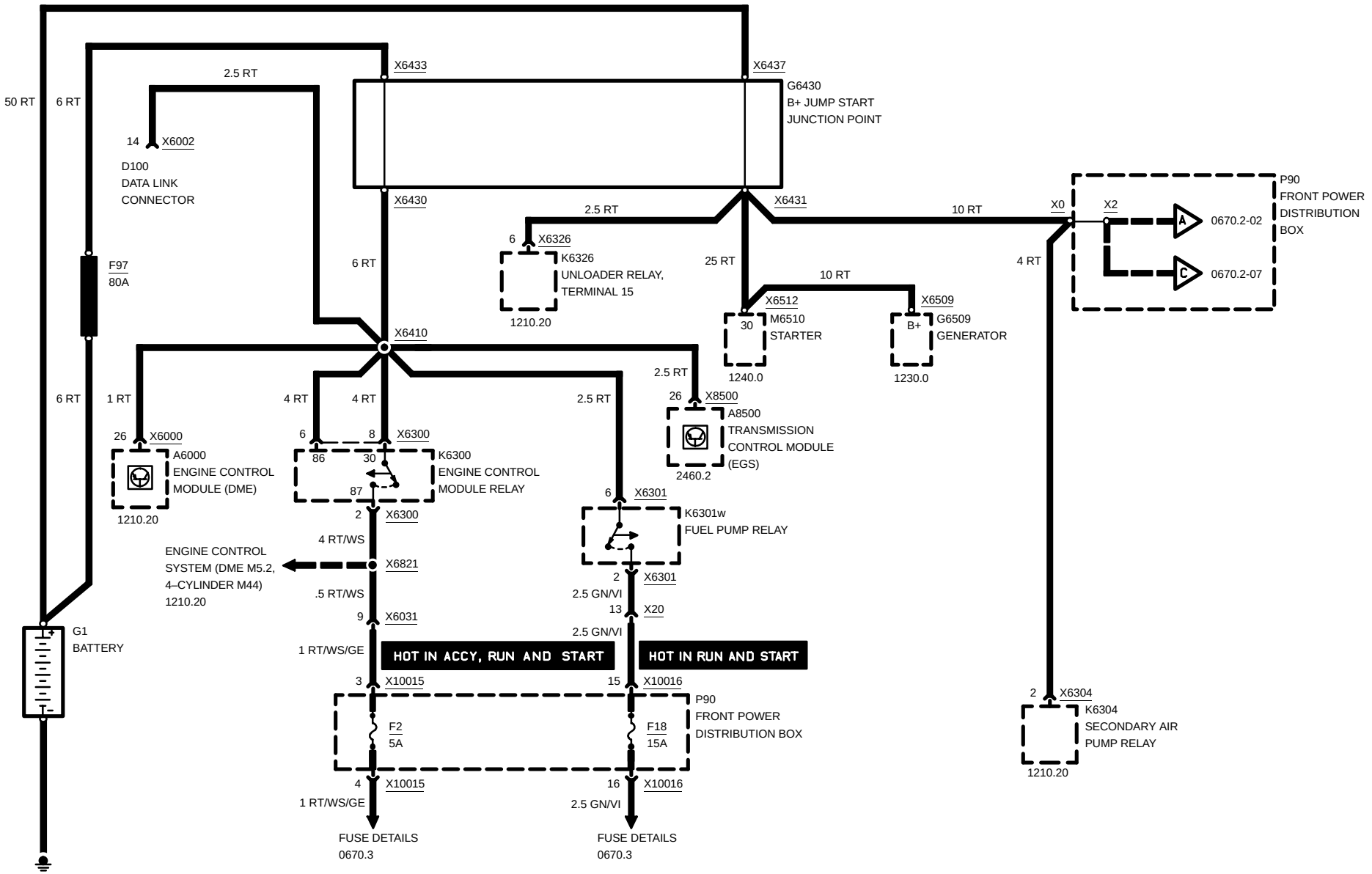
FUSE CHART

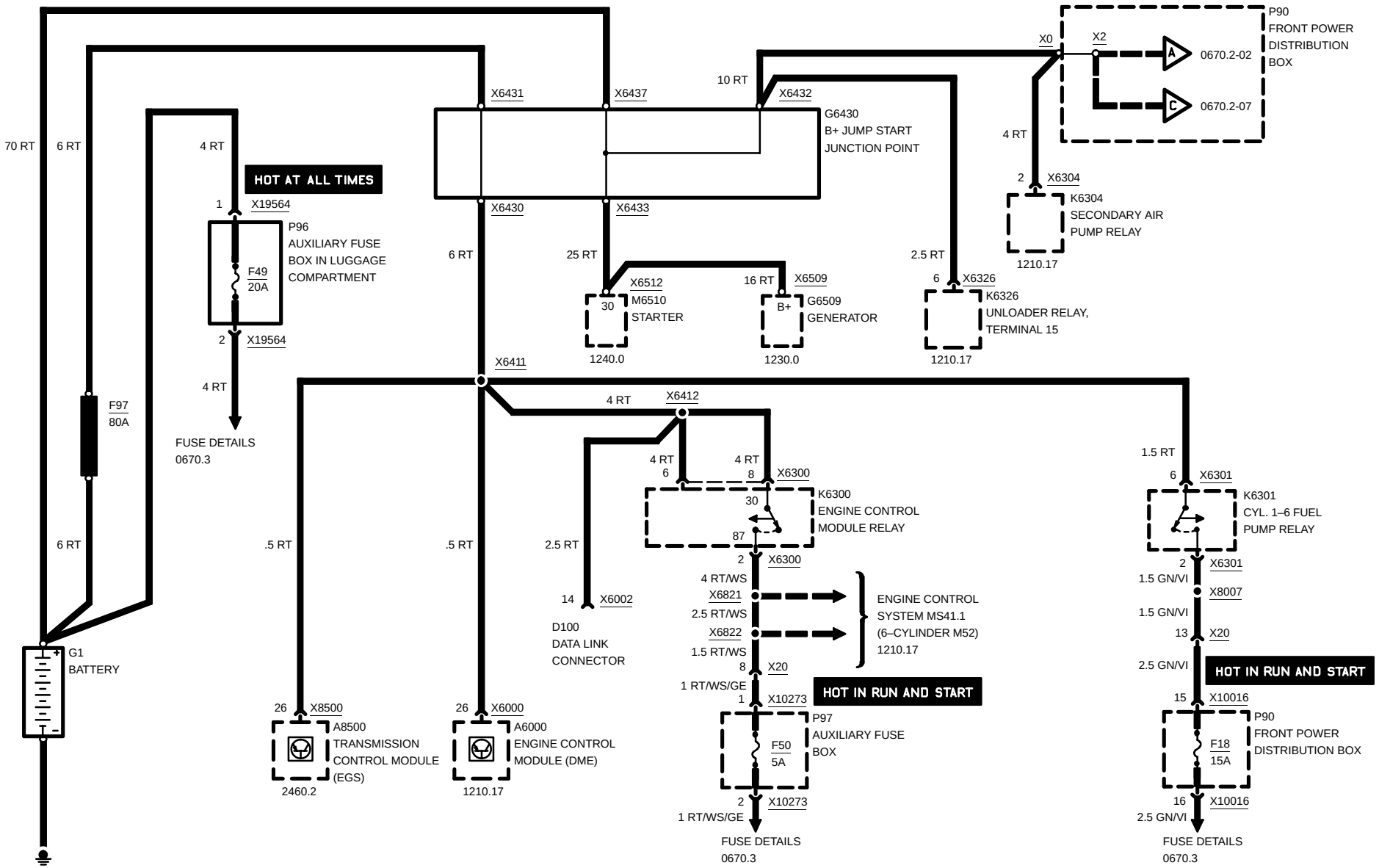
FUSES 30 TO 50

		FUSE NUMBER																														
		30	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**										
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A	40A	20A	5A										
6424.0	REAR WINDOW DEFOGGER/ANTENNA														●																	
6450.7	INTEGRATED CLIMATE REGULATION (IHKA E36)		●								●		●							●												
6510.0	RADIO/STEREO															●																
6510.1	RADIO/HIFI/TOP HIFI				●										●	●																
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●										●																	
6571.0	CRUISE CONTROL (TEMPOMAT)																	●														
6575.2	ANTI–THEFT SYSTEM (ALPINE)														●				●													
6581.2	ON–BOARD COMPUTER (BC V)		●		●				●								●	●														

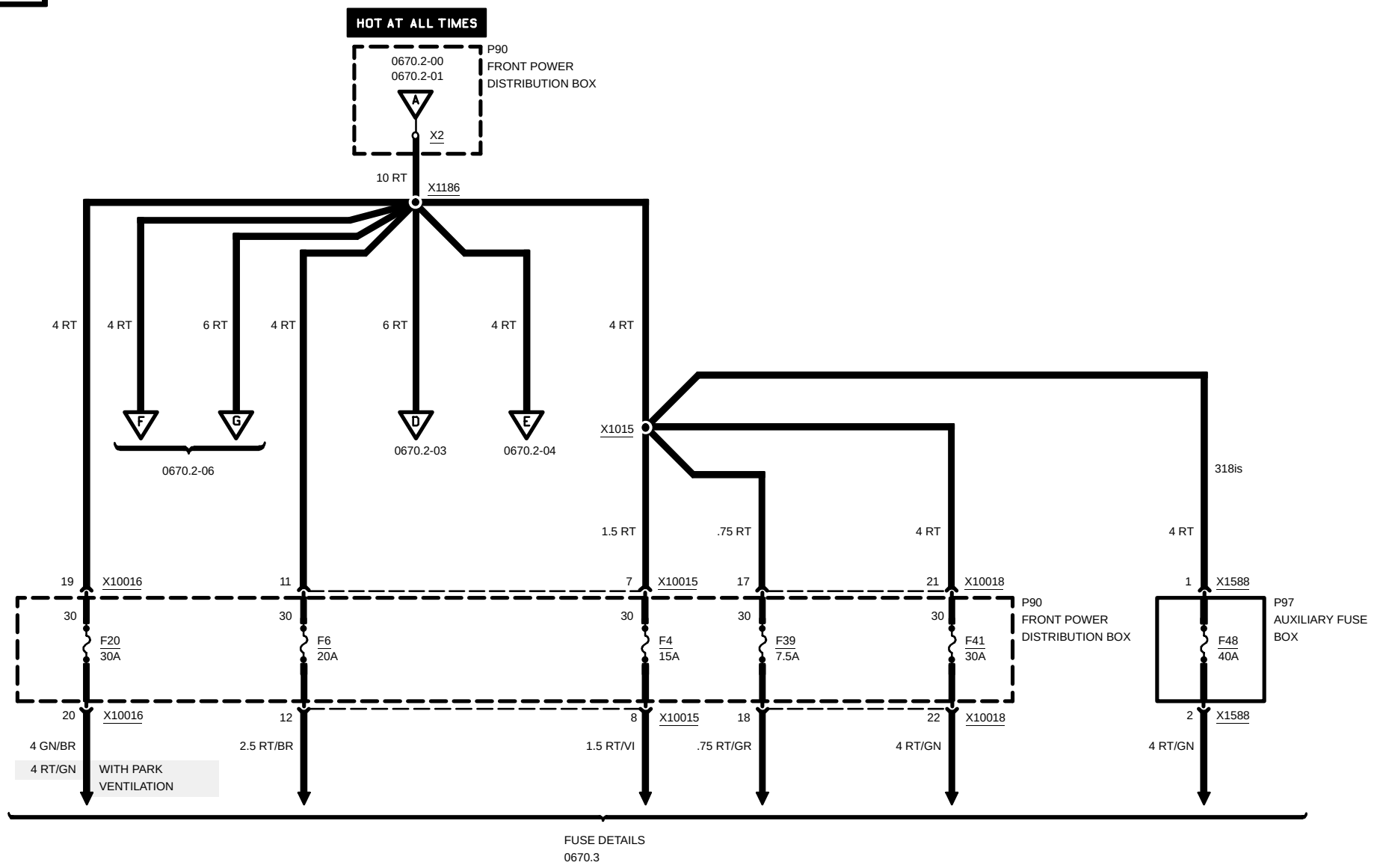
0670.2 POWER DISTRIBUTION

318is

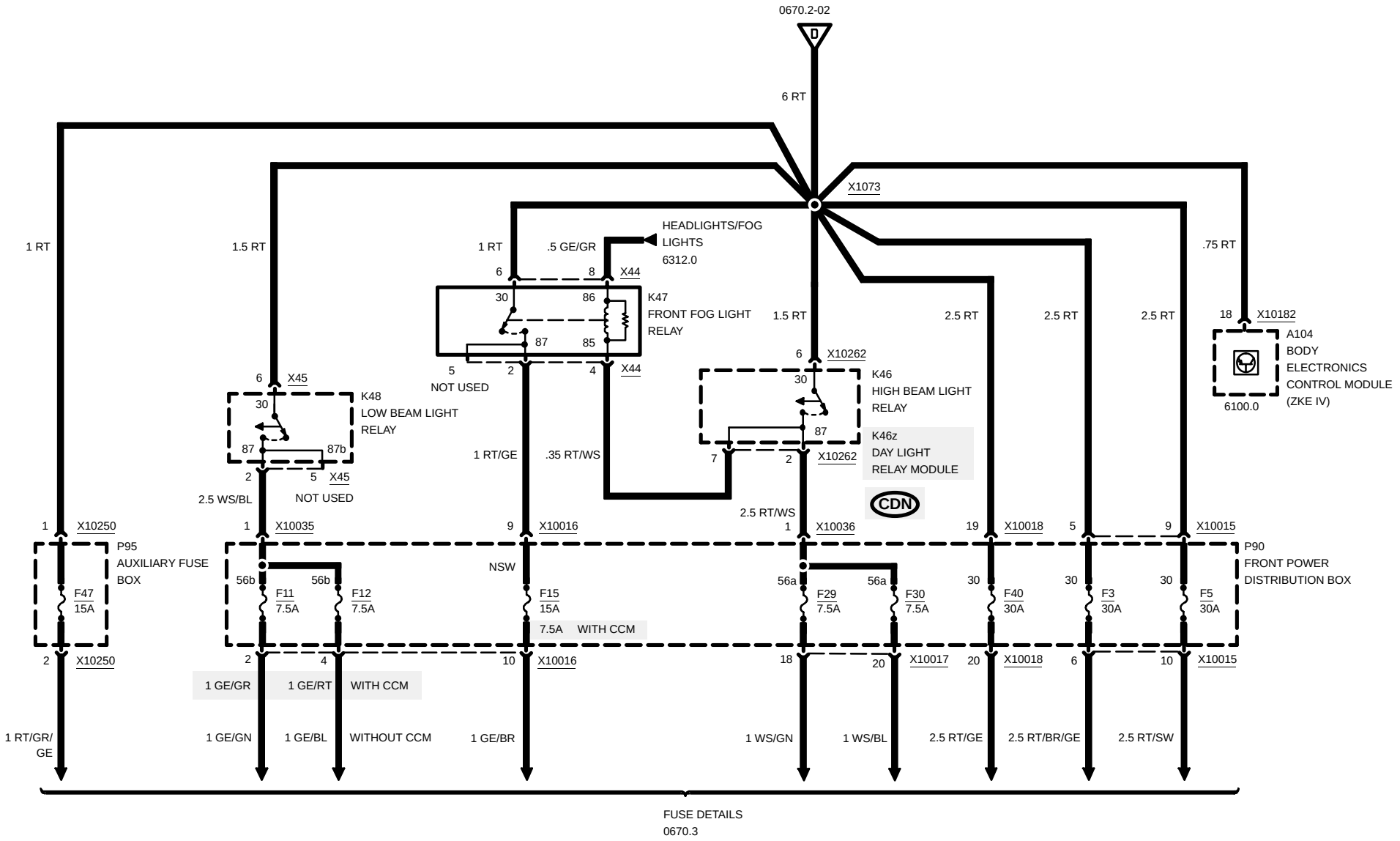



70 RT
6 RT
4 RT
HOT AT ALL TIMES
1
X19564
P96
AUXILIARY FUSE
BOX IN LUGGAGE
COMPARTMENT
F49
20A
2
X19564
4 RT
FUSE DETAILS
0670.3
F97
80A
6 RT
G1
BATTERY
X6431
X6437
10 RT
X6432
G6430
B+ JUMP START
JUNCTION POINT
X6430
X6433
6 RT
25 RT
30
X6512
M6510
STARTER
1240.0
16 RT
X6509
B+
G6509
GENERATOR
1230.0
2.5 RT
6
X6326
K6326
UNLOADER RELAY,
TERMINAL 15
1210.17
X0
X2
A
0670.2-02
C
0670.2-07
P90
FRONT POWER
DISTRIBUTION
BOX
4 RT
2
X6304
K6304
SECONDARY AIR
PUMP RELAY
1210.17
X6411
4 RT
X6412
.5 RT
.5 RT
2.5 RT
4 RT
6
4 RT
8
X6300
30
K6300
ENGINE CONTROL
MODULE RELAY
87
2
X6300
4 RT/WS
X6821
2.5 RT/WS
X6822
1.5 RT/WS
8
X20
1 RT/WS/GE
1
X10273
HOT IN RUN AND START
F50
5A
2
X10273
1 RT/WS/GE
FUSE DETAILS
0670.3
ENGINE CONTROL
SYSTEM MS41.1
(6–CYLINDER M52)
1210.17
14
X6002
D100
DATA LINK
CONNECTOR
26
X8500
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
2460.2
26
X6000
A6000
ENGINE CONTROL
MODULE (DME)
1210.17
P97
AUXILIARY FUSE
BOX
1.5 RT
6
X6301
K6301
CYL. 1–6 FUEL
PUMP RELAY
2
X6301
1.5 GN/VI
X8007
1.5 GN/VI
13
X20
2.5 GN/VI
HOT IN RUN AND START
15
X10016
F18
15A
16
X10016
2.5 GN/VI
FUSE DETAILS
0670.3
P90
FRONT POWER
DISTRIBUTION BOX

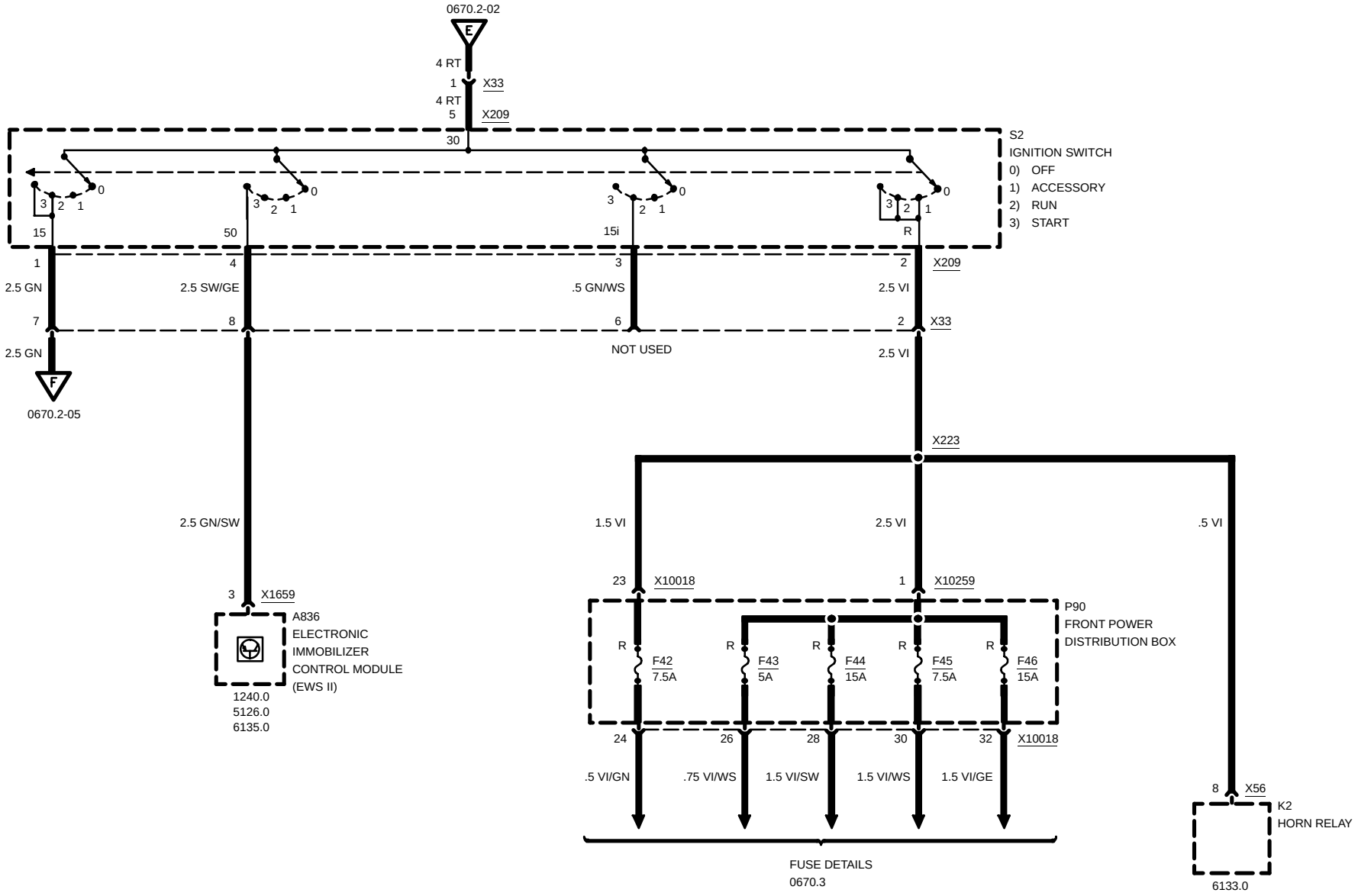
POWER DISTRIBUTION



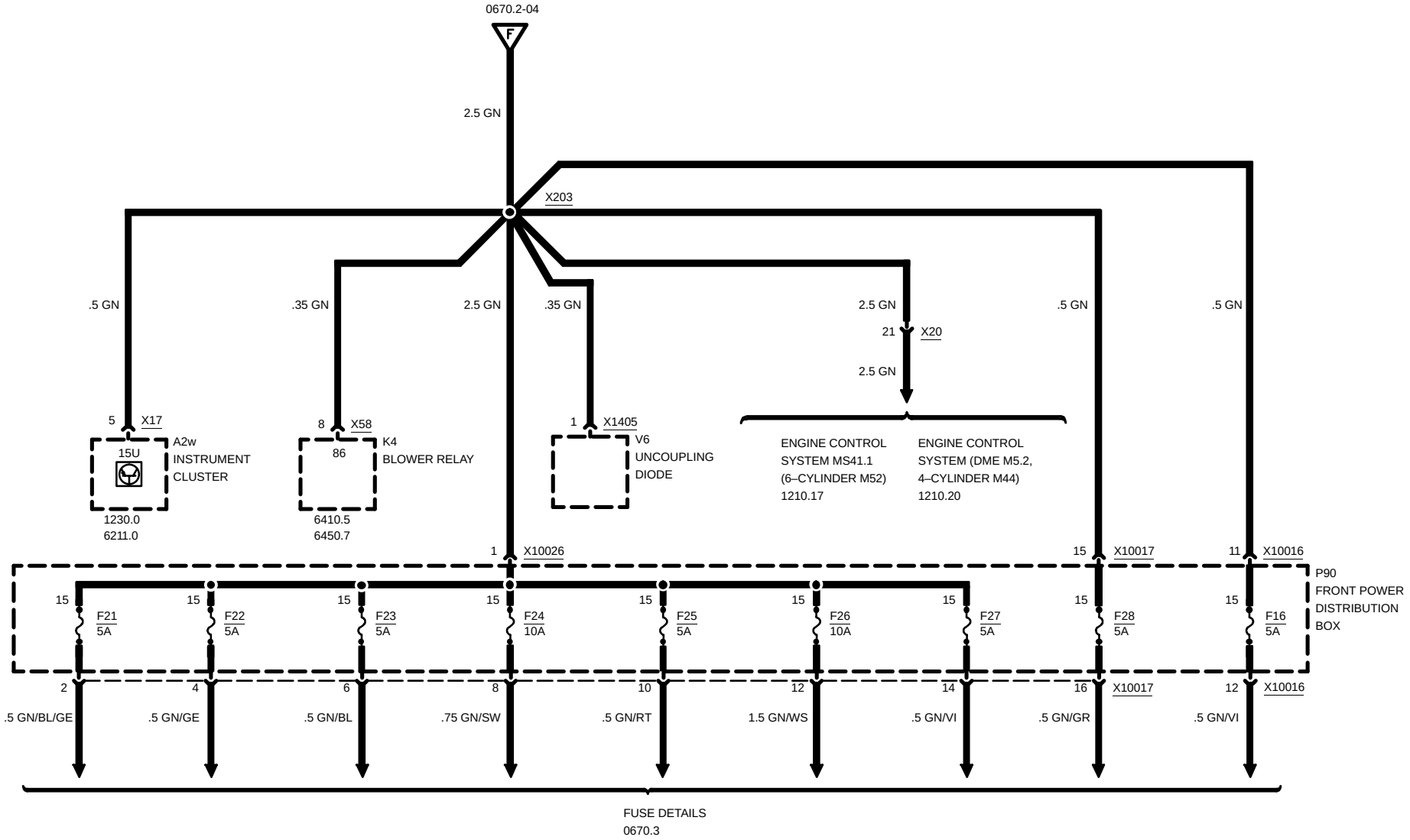
POWER DISTRIBUTION



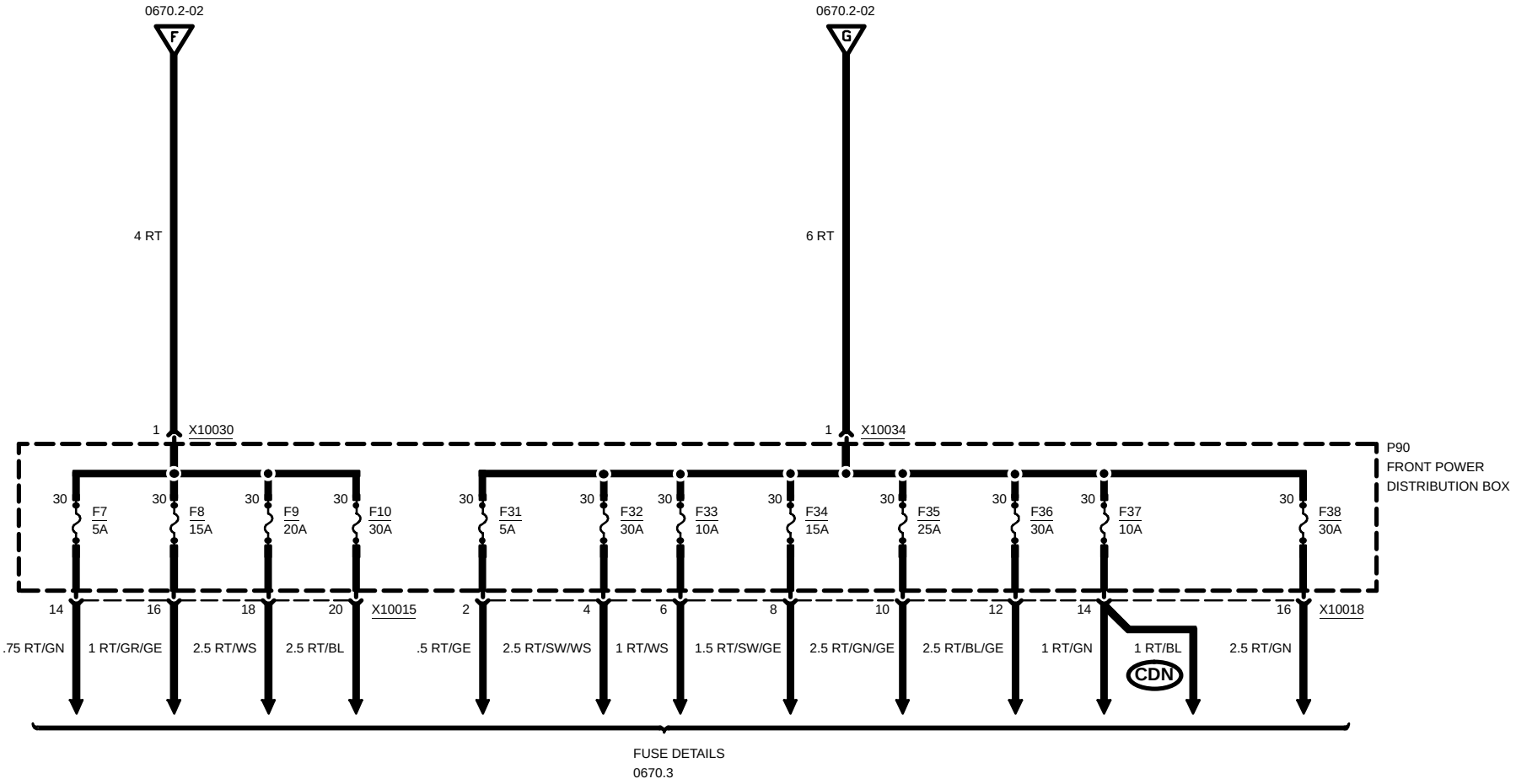
POWER DISTRIBUTION



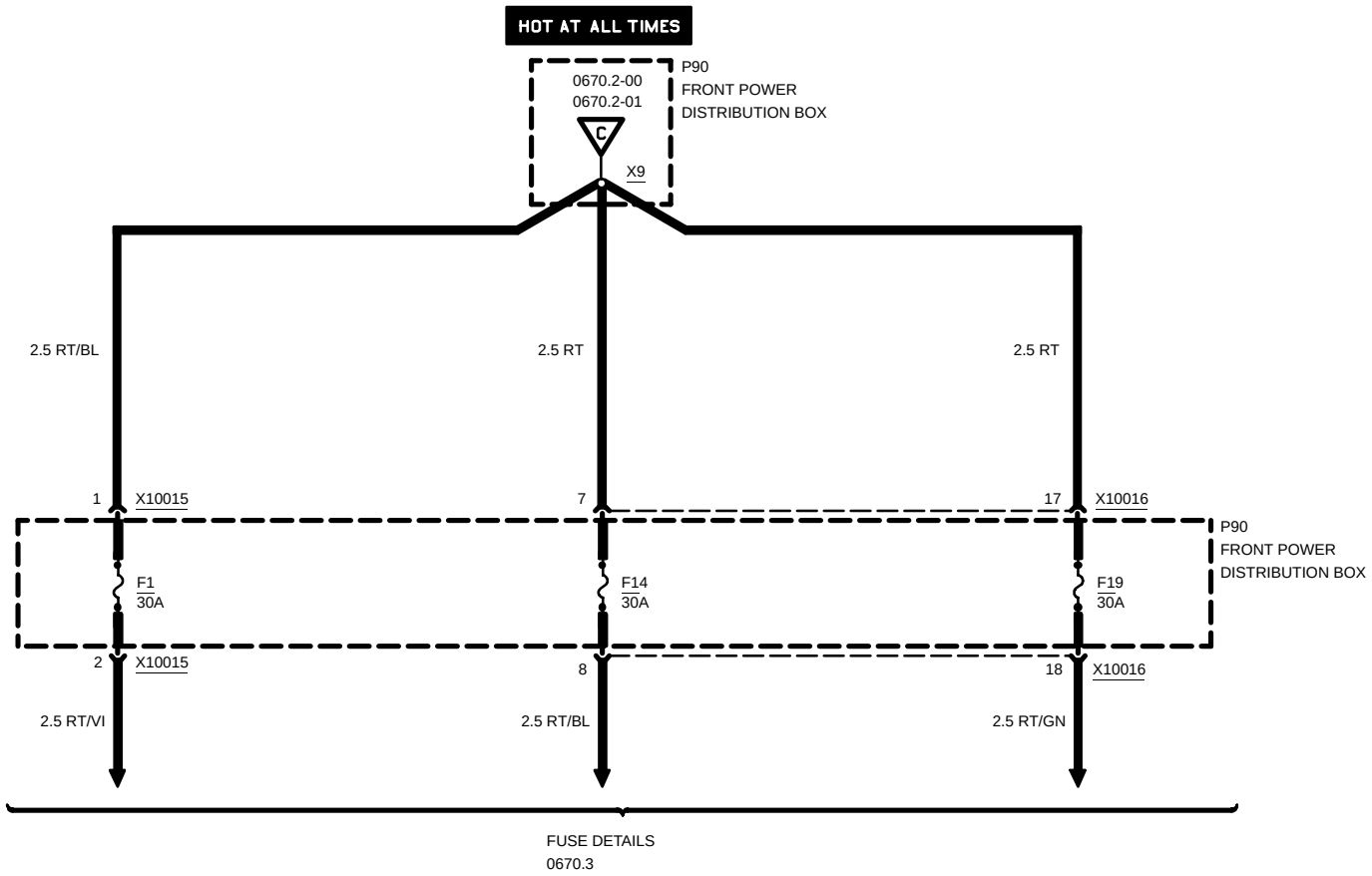
POWER DISTRIBUTION



POWER DISTRIBUTION

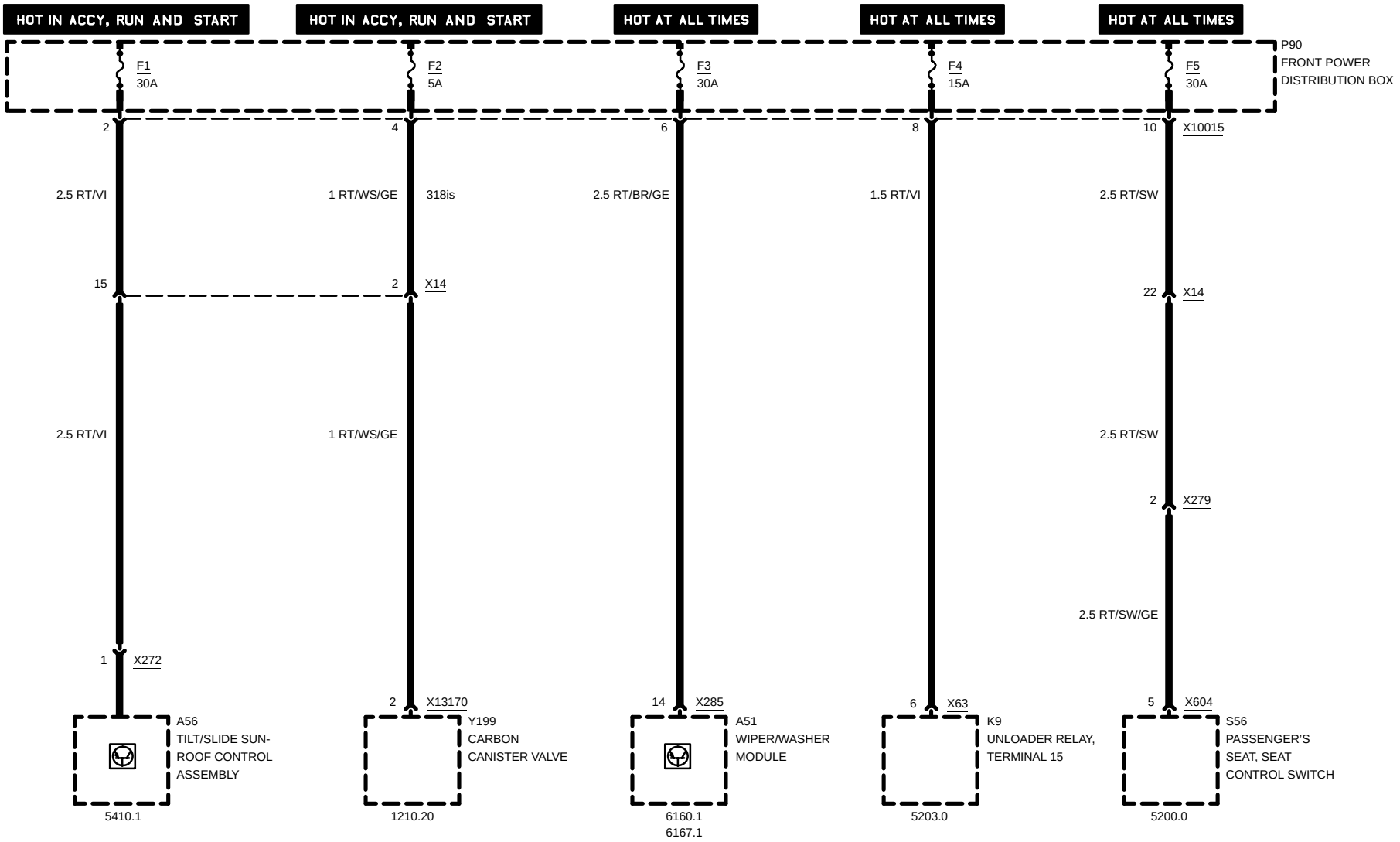


POWER DISTRIBUTION



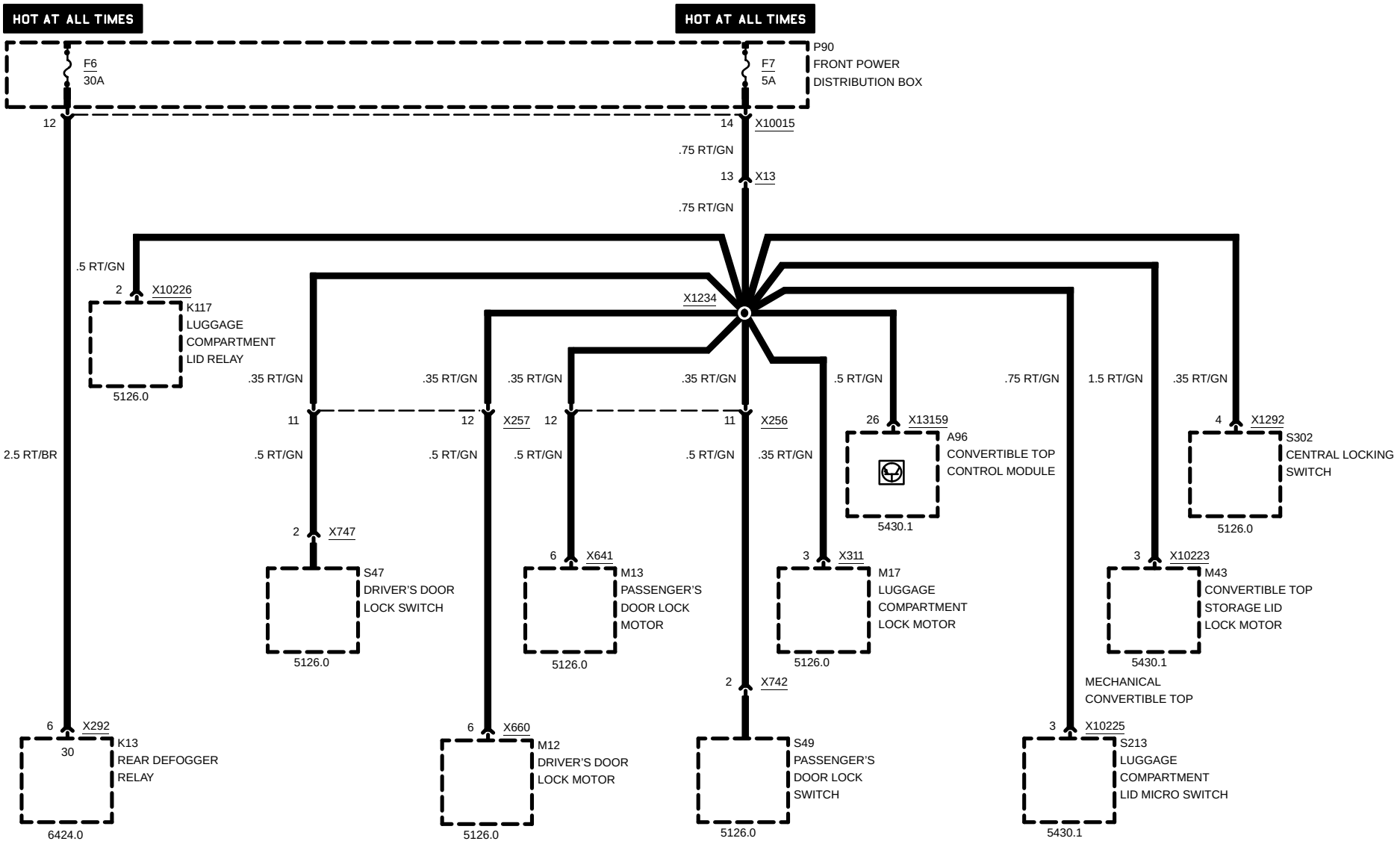
0670.3 FUSE DETAILS

FUSES 1, 2, 3, 4, AND 5



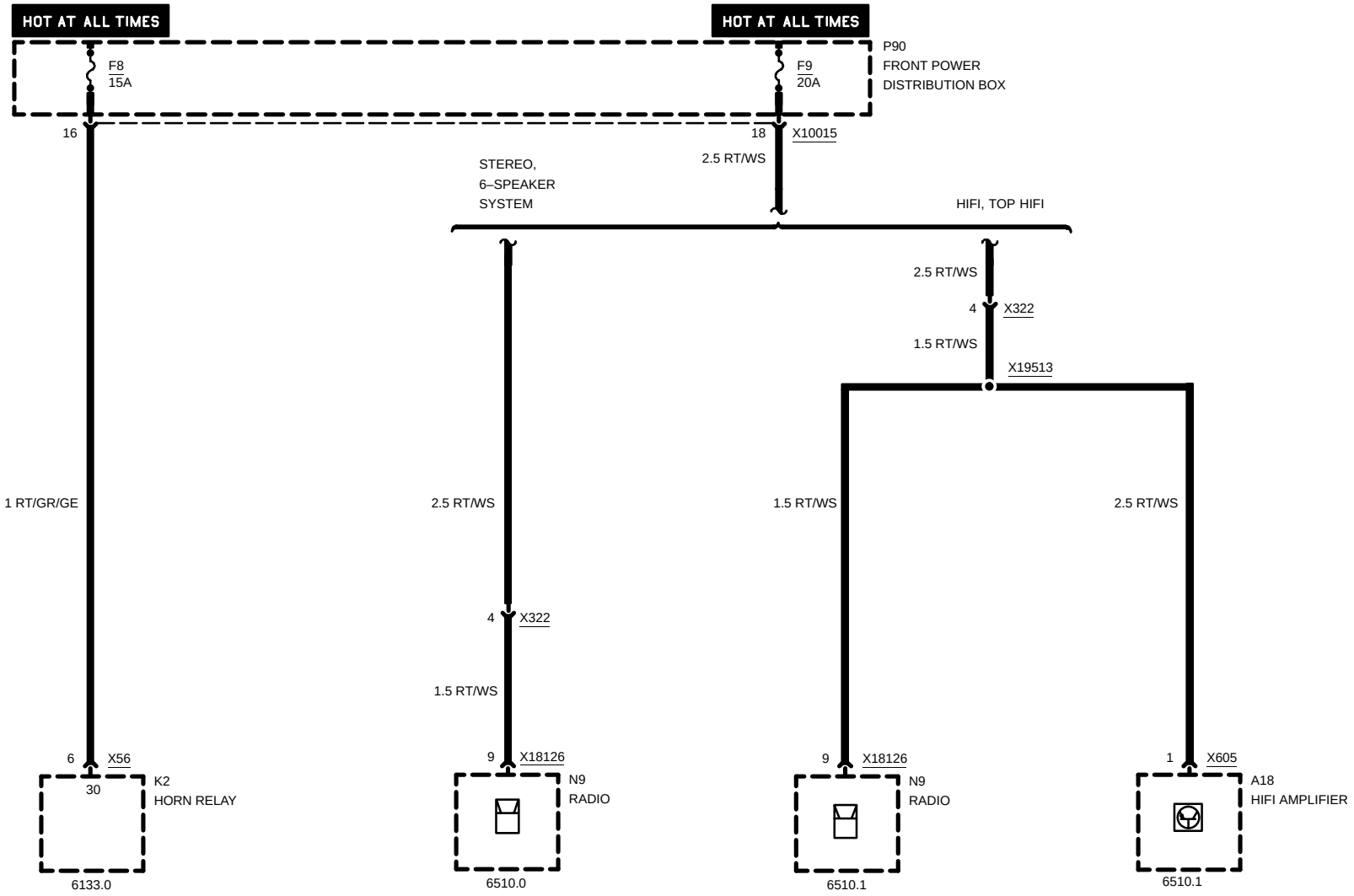
FUSE DETAILS

FUSES 6 AND 7



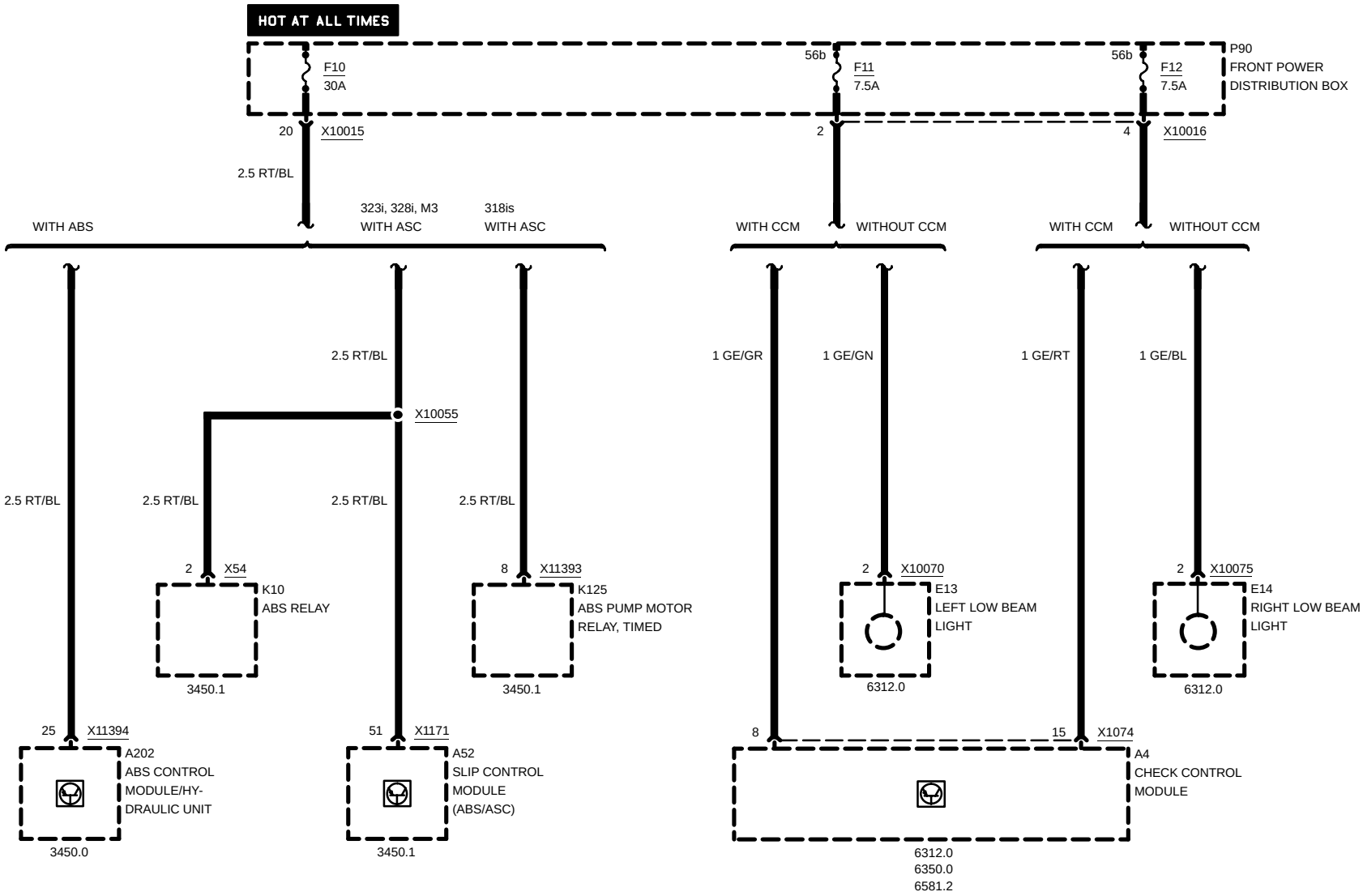
FUSE DETAILS

FUSES 8 AND 9



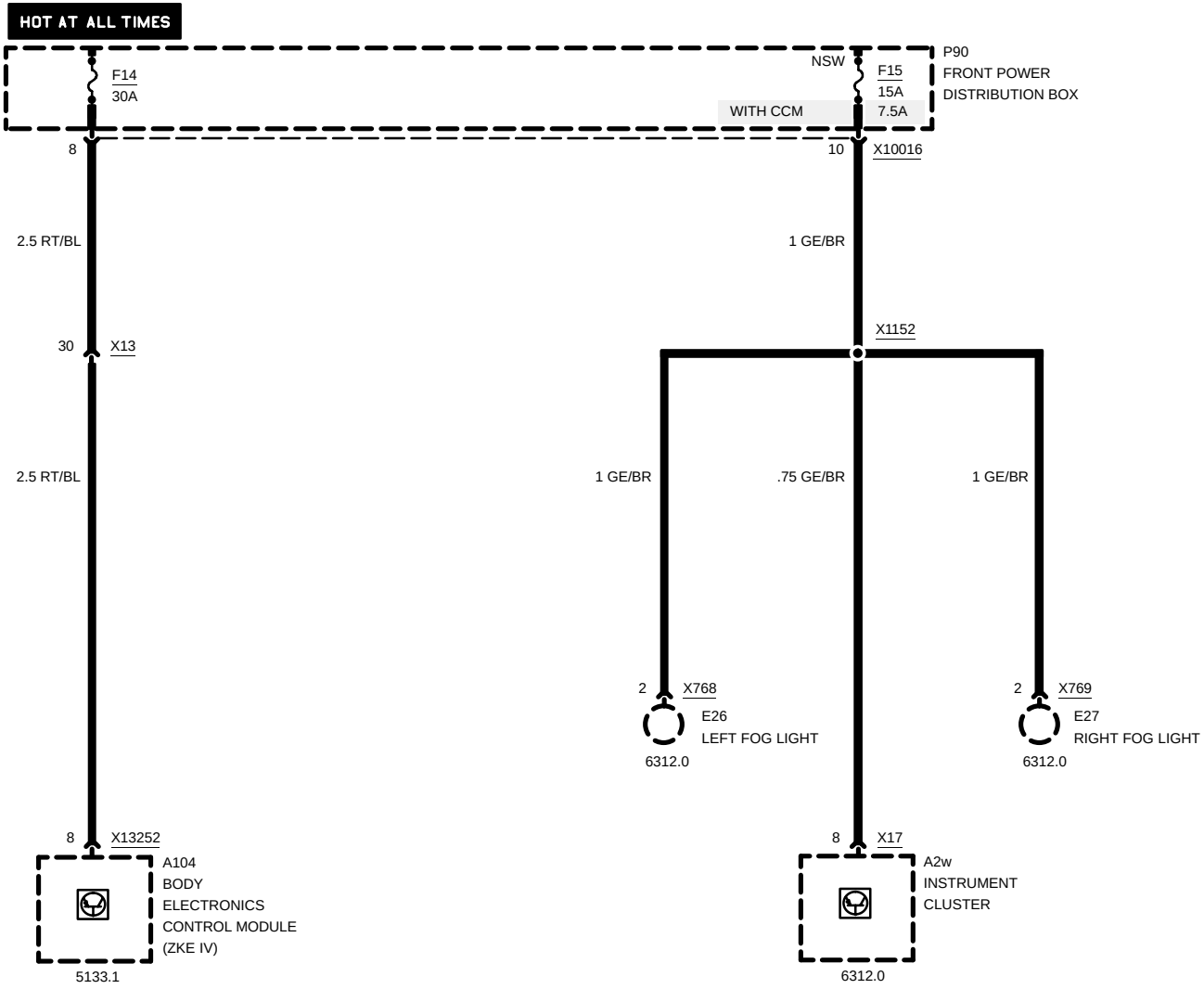
FUSE DETAILS

FUSES 10, 11, AND 12



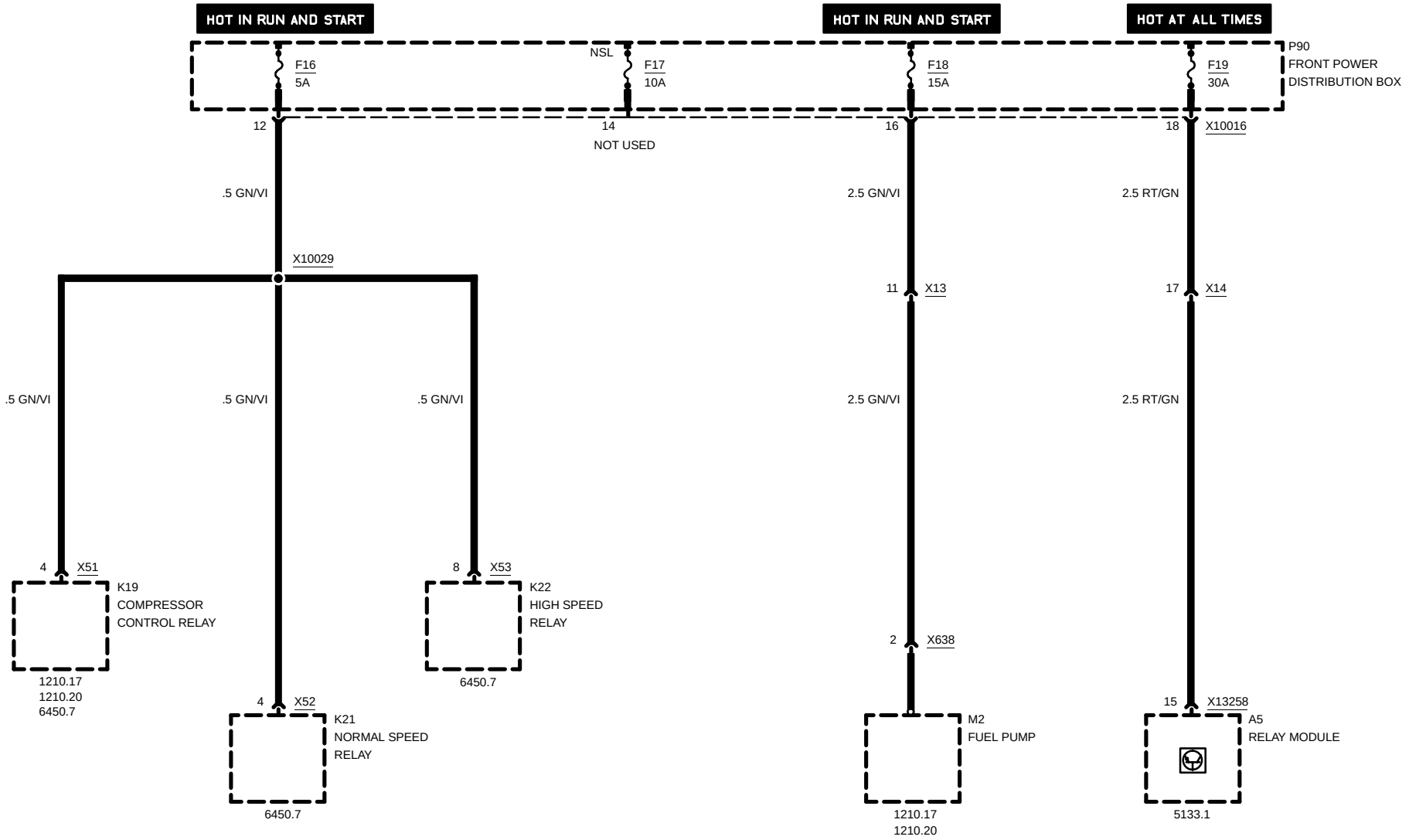
FUSE DETAILS

FUSES 14 AND 15



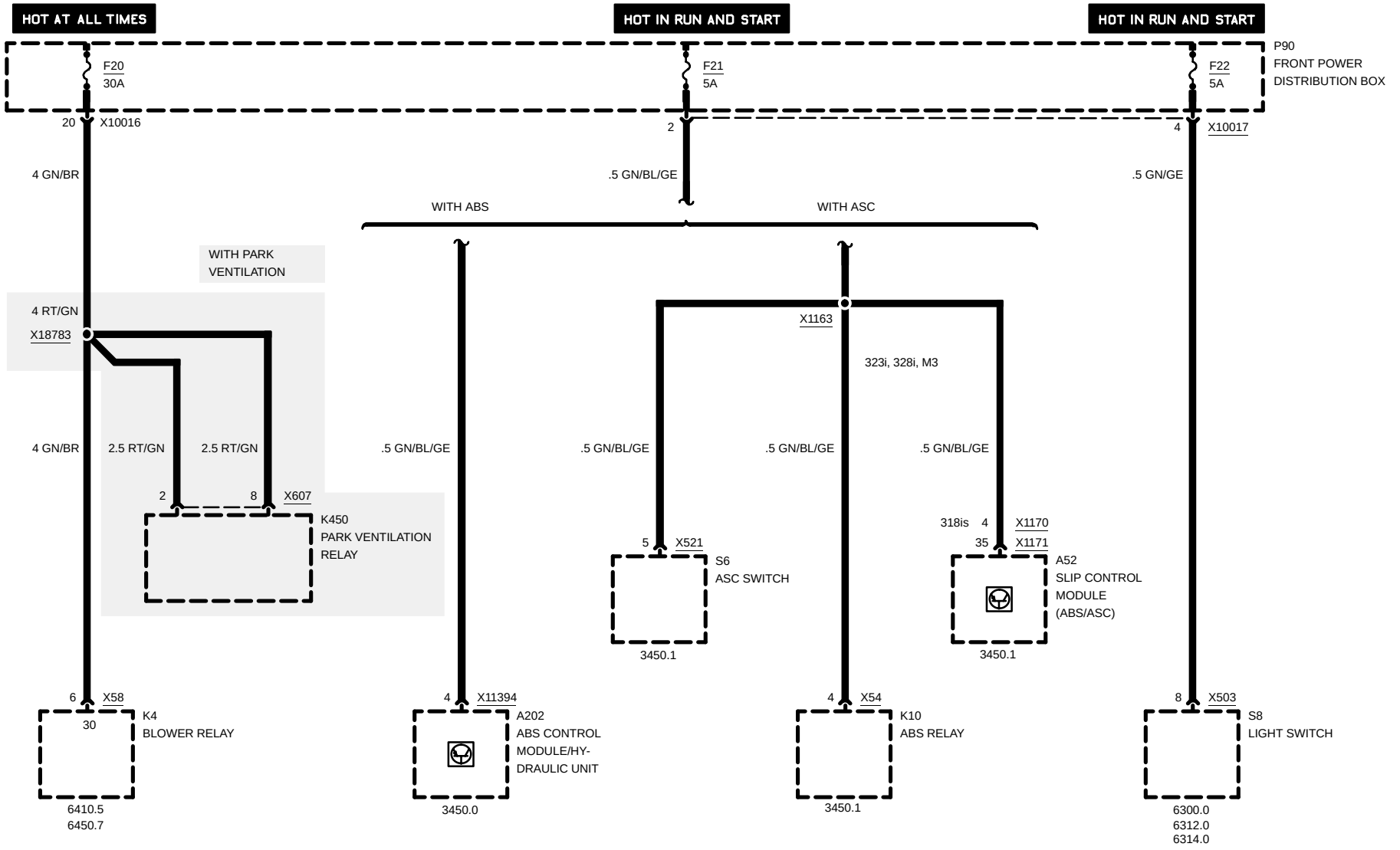
FUSE DETAILS

FUSES 16, 17, 18, AND 19



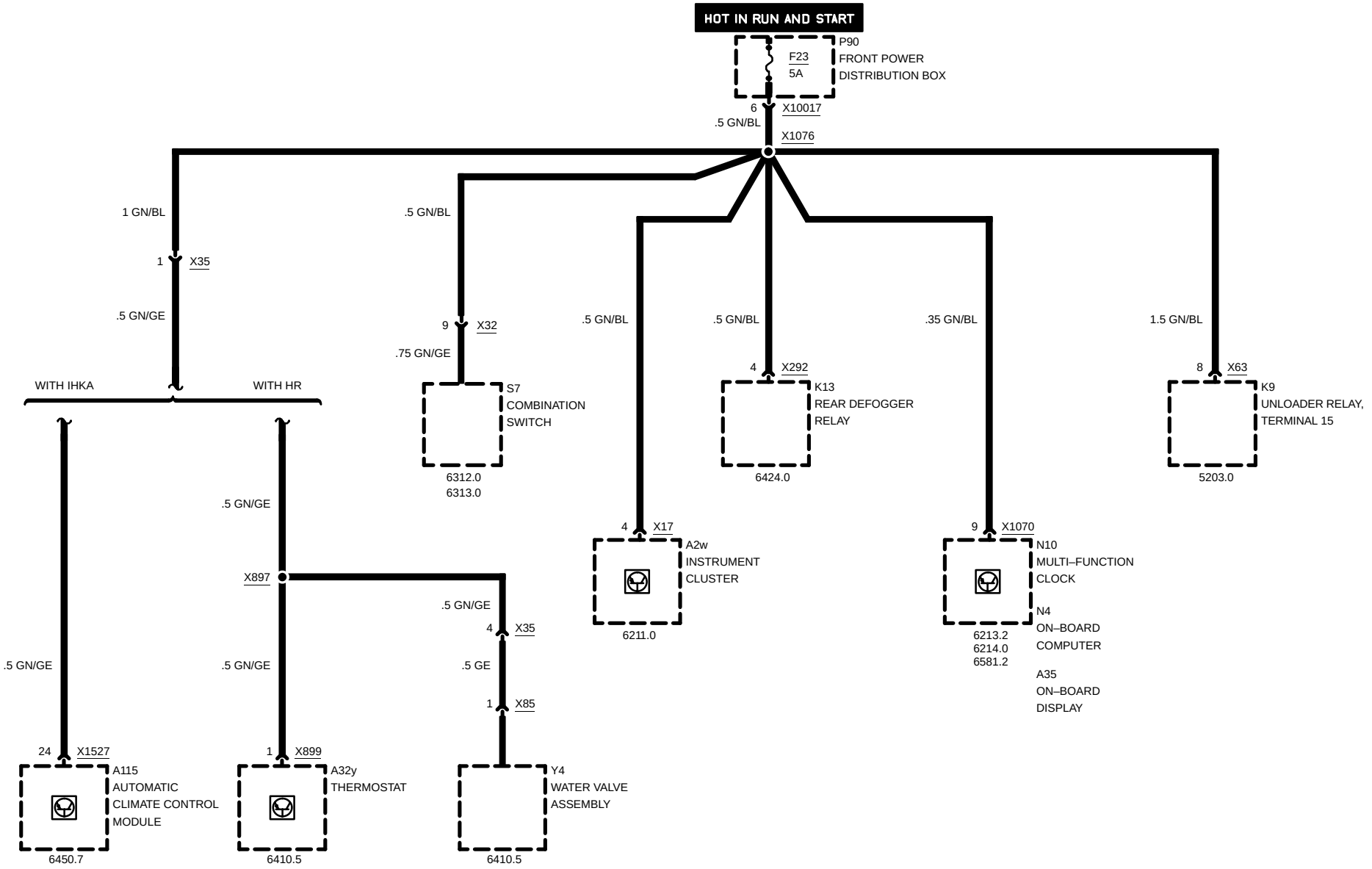
FUSE DETAILS

FUSES 20, 21, AND 22



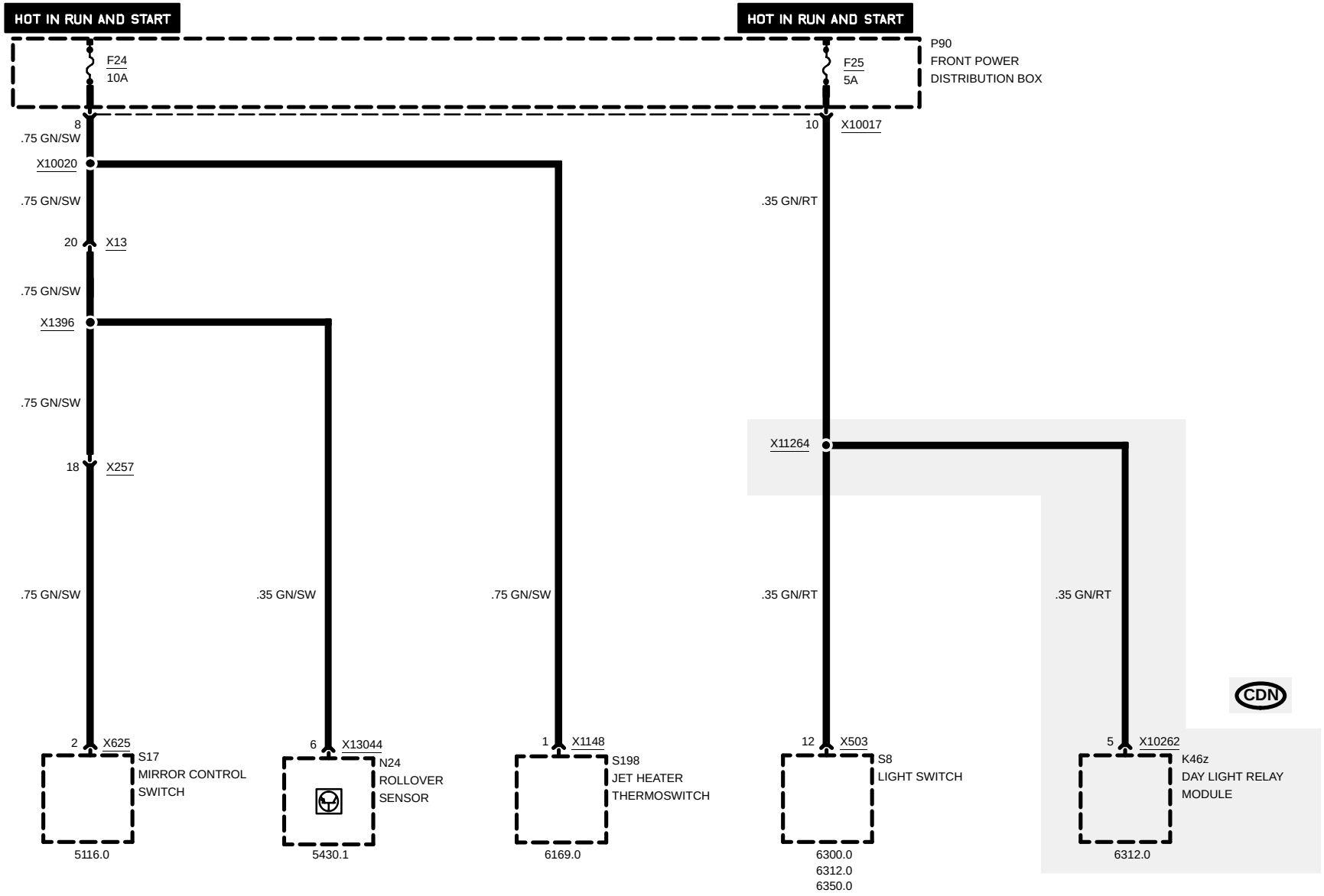
FUSE DETAILS

FUSE 23



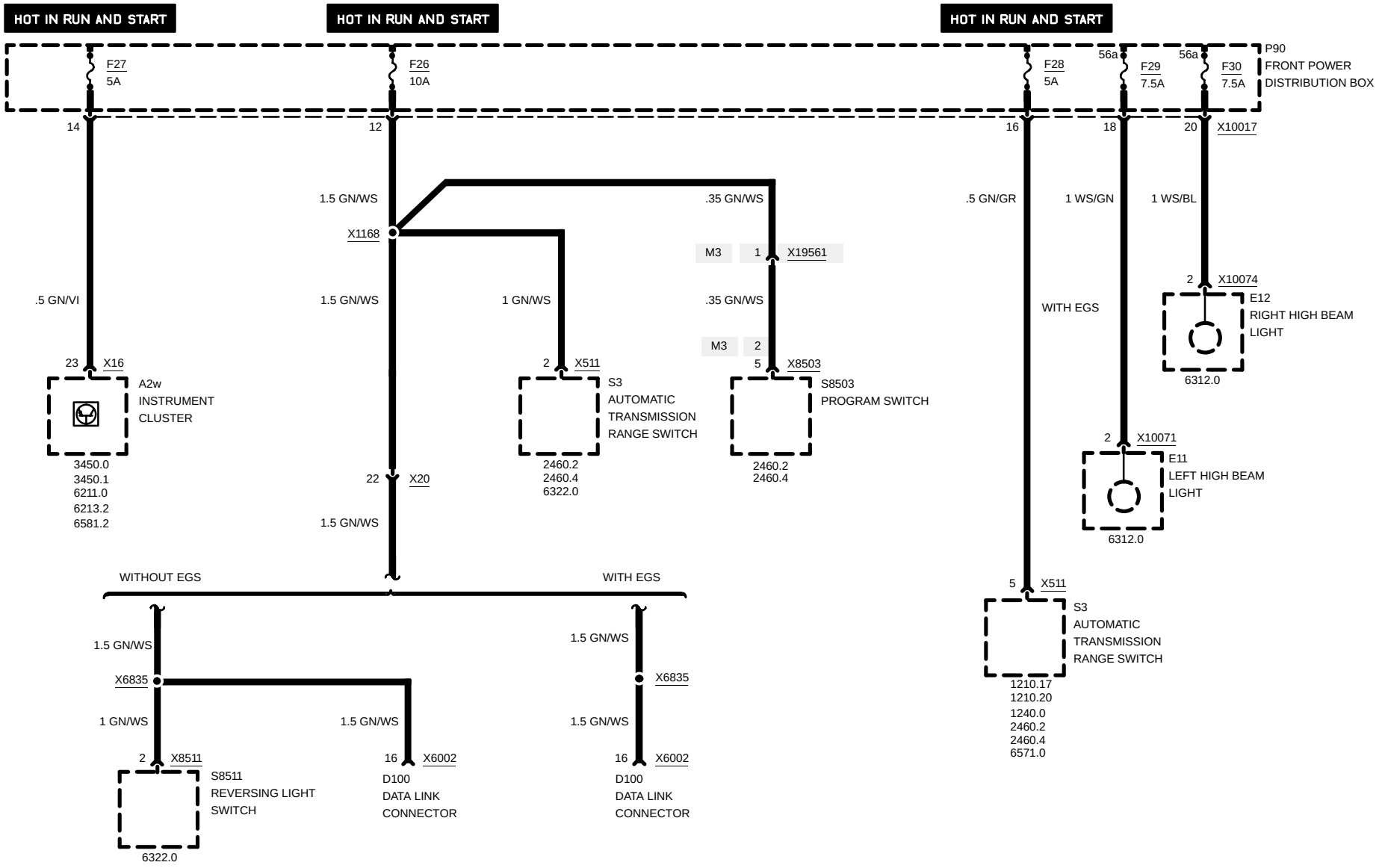
FUSE DETAILS

FUSES 24 AND 25



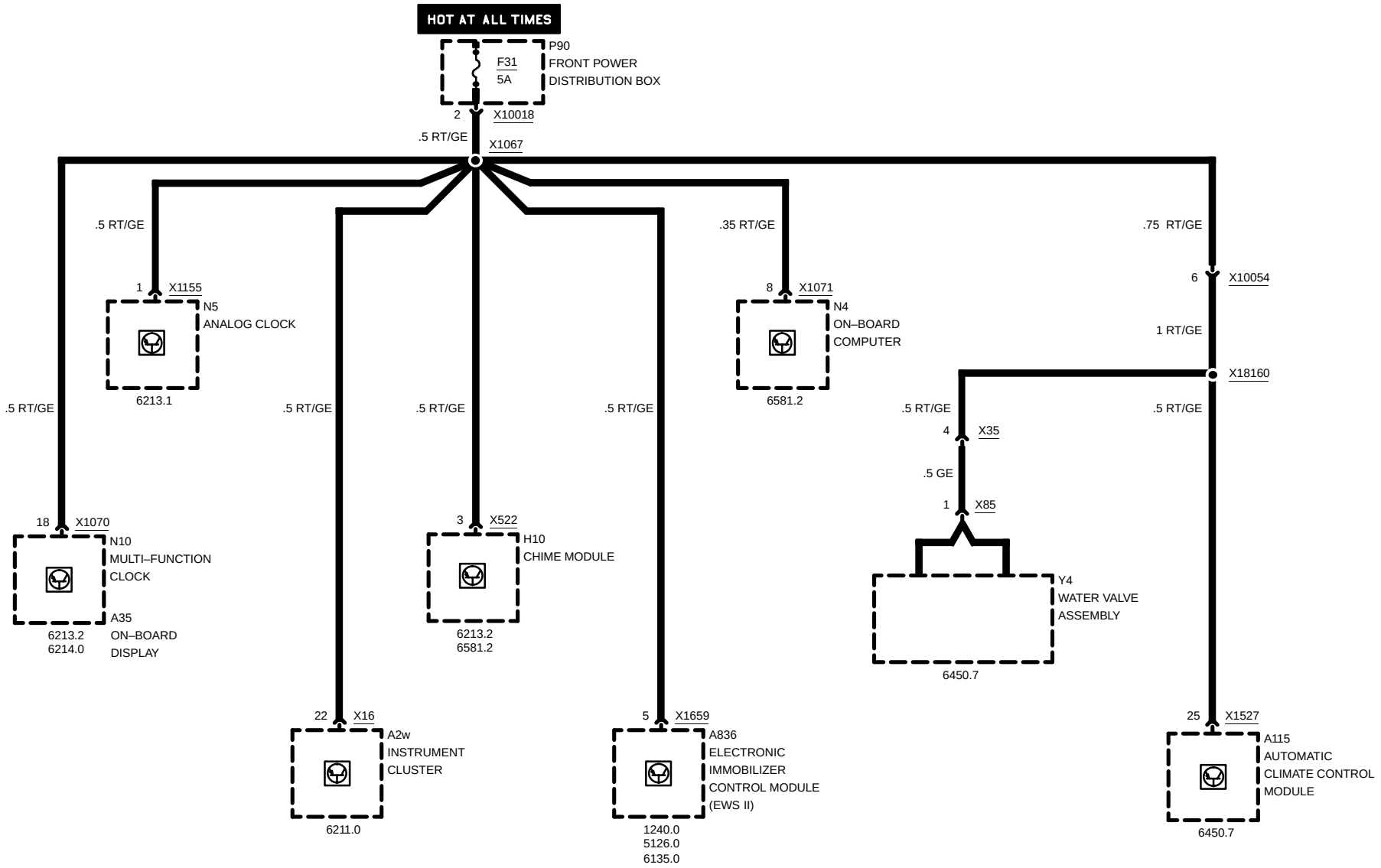
FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30



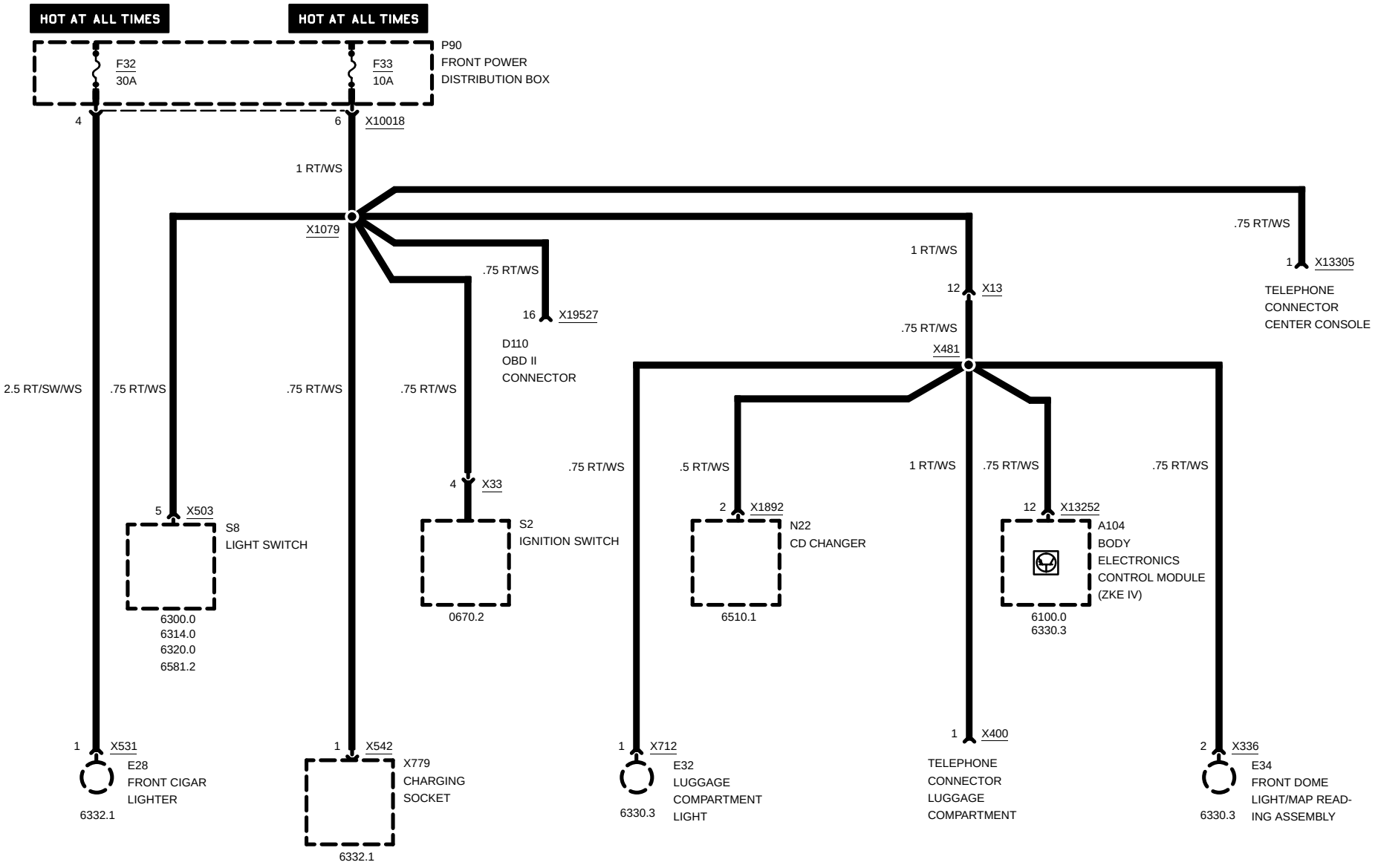
FUSE DETAILS

FUSE 31



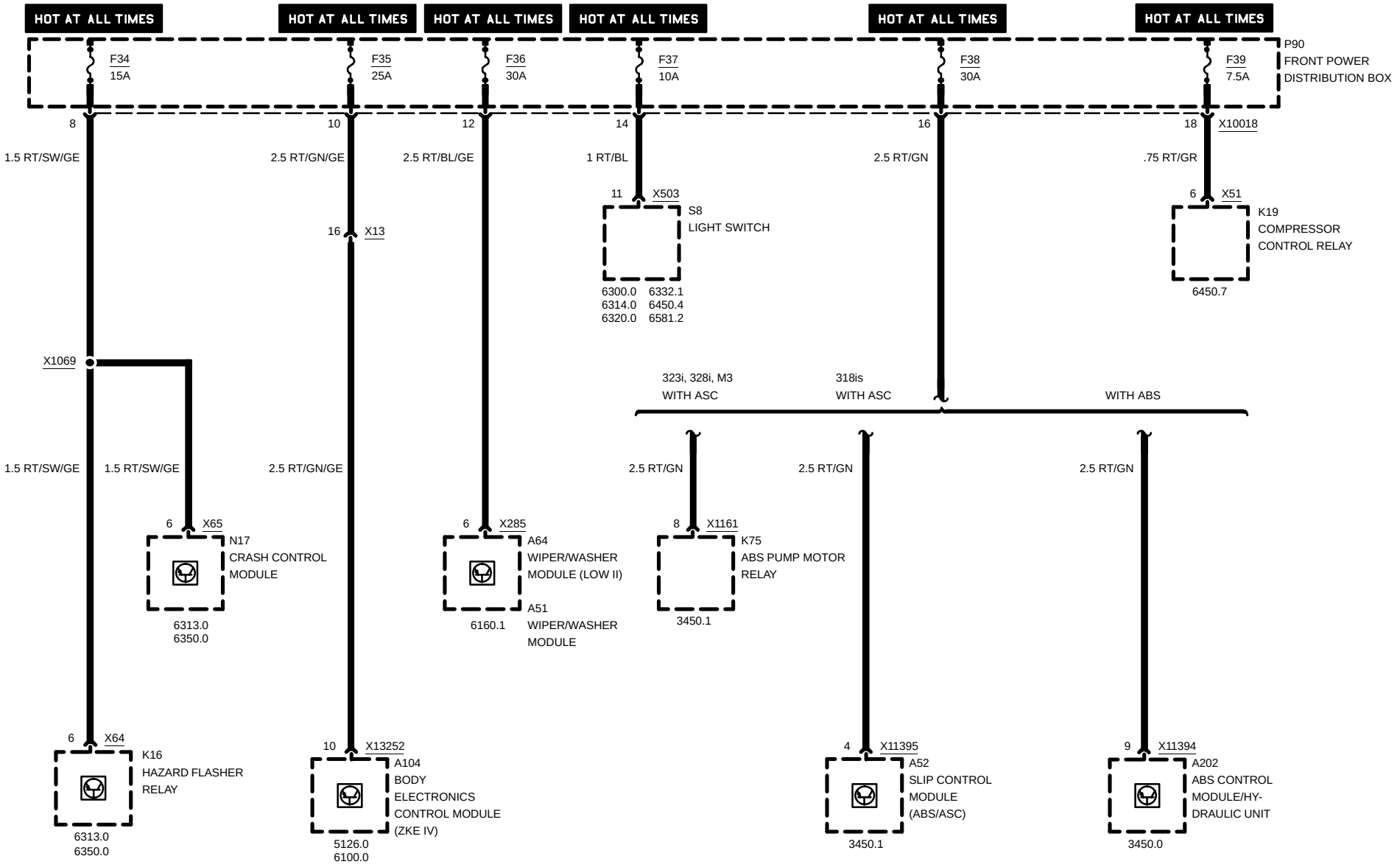
FUSE DETAILS

FUSES 32 AND 33



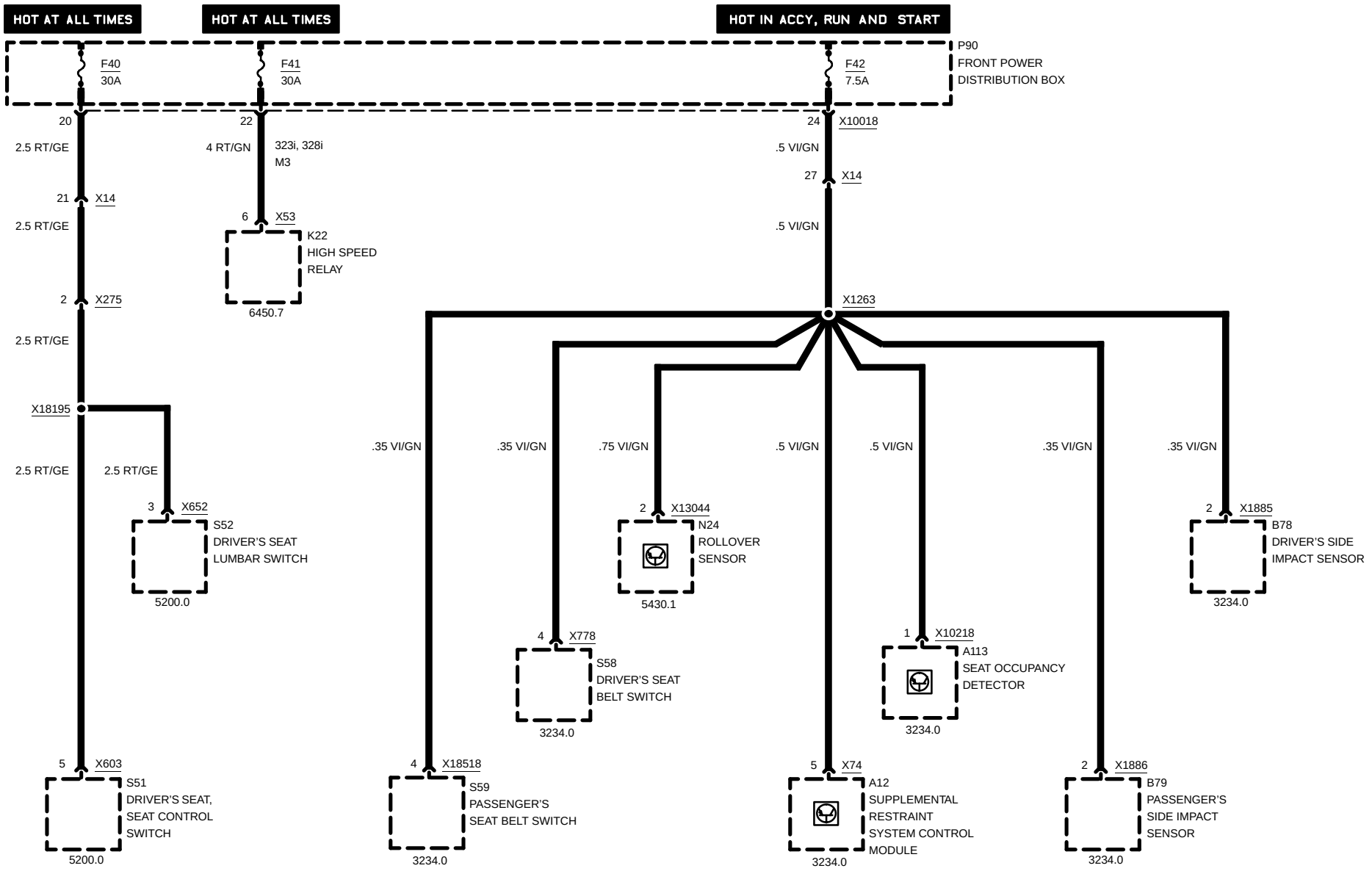
FUSE DETAILS

FUSES 34, 35, 36, 37, 38, AND 39



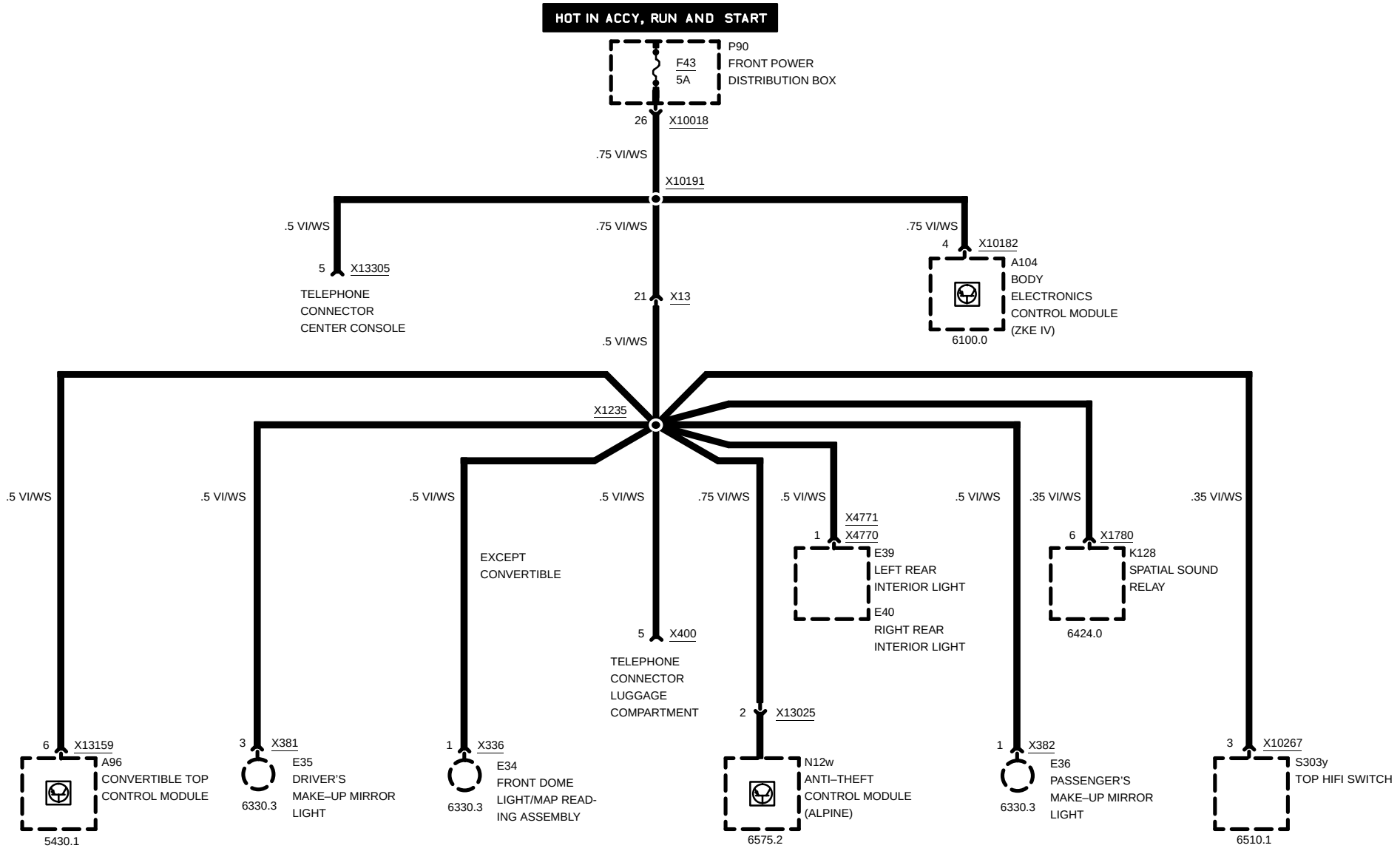
FUSE DETAILS

FUSES 40, 41, AND 42



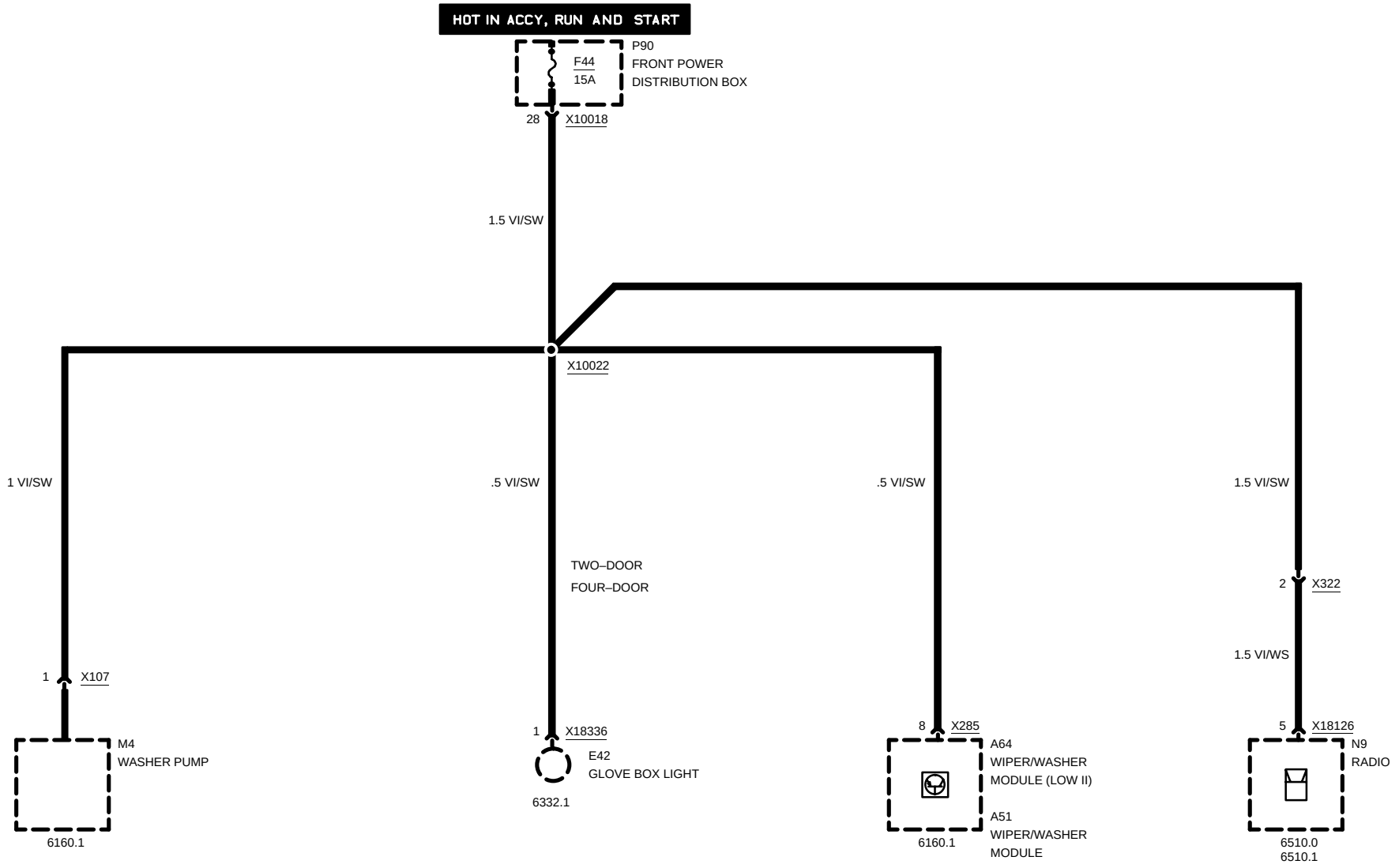
FUSE DETAILS

FUSE 43



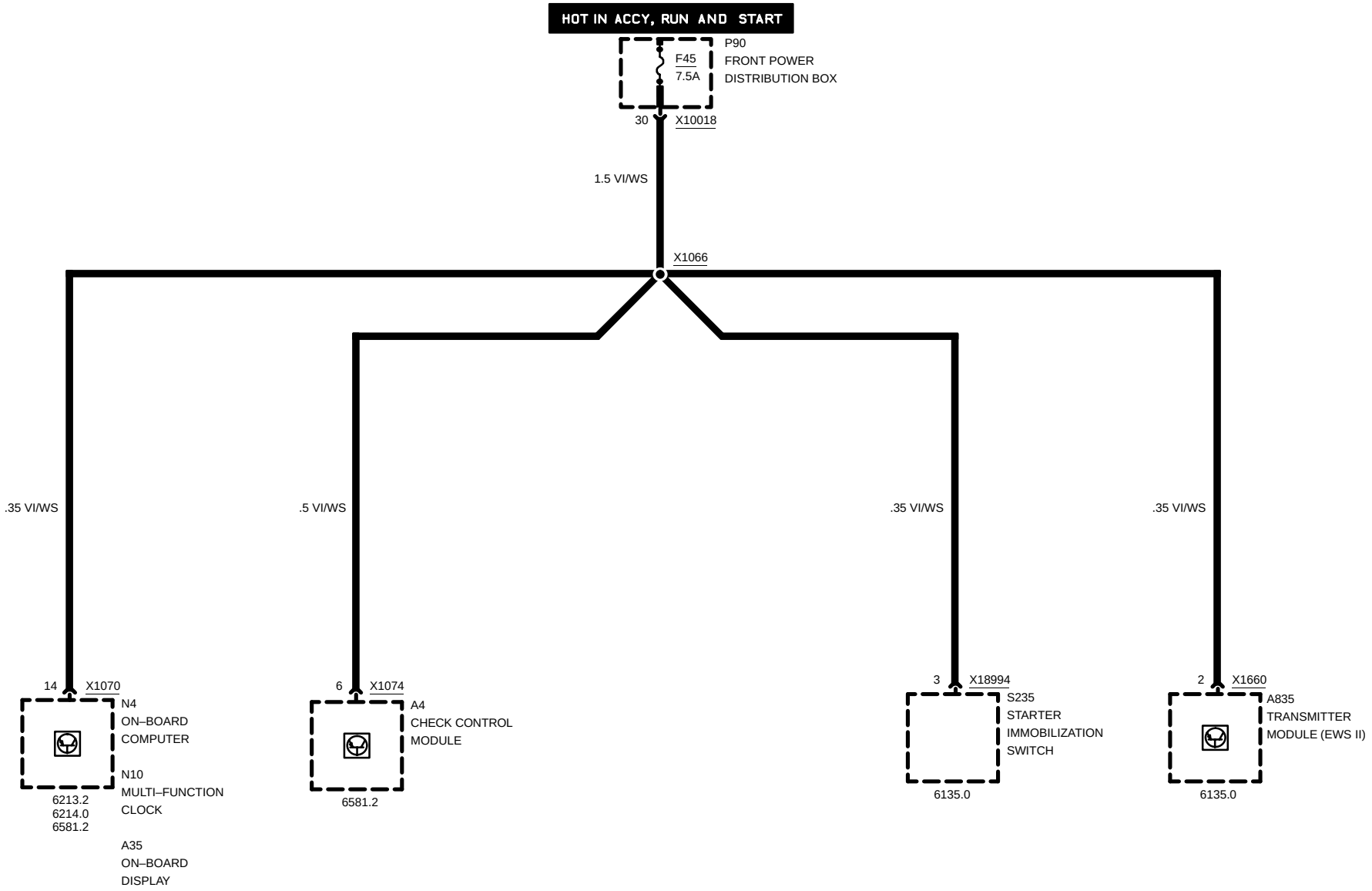
FUSE DETAILS

FUSE 44



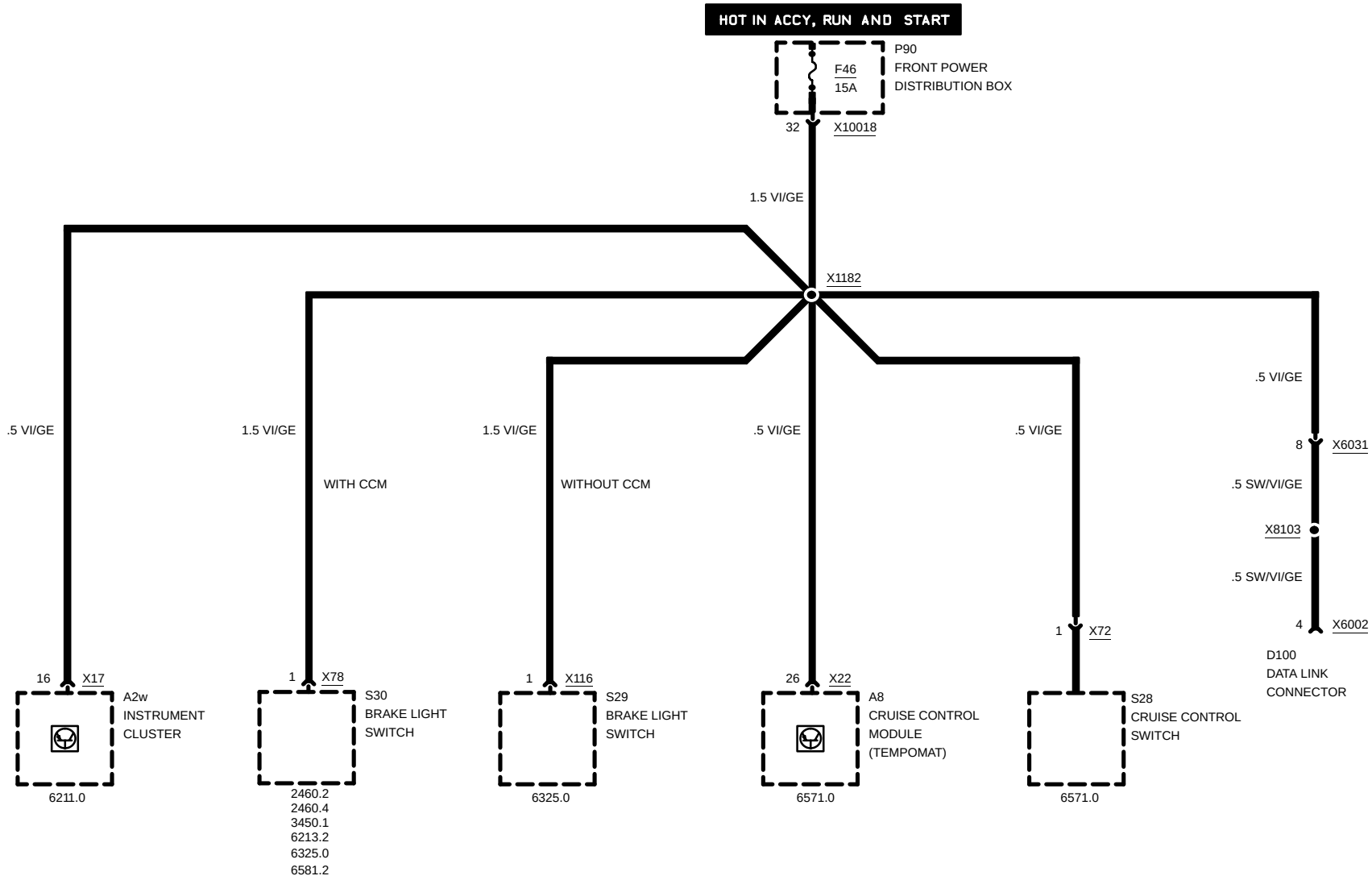
FUSE DETAILS

FUSE 45



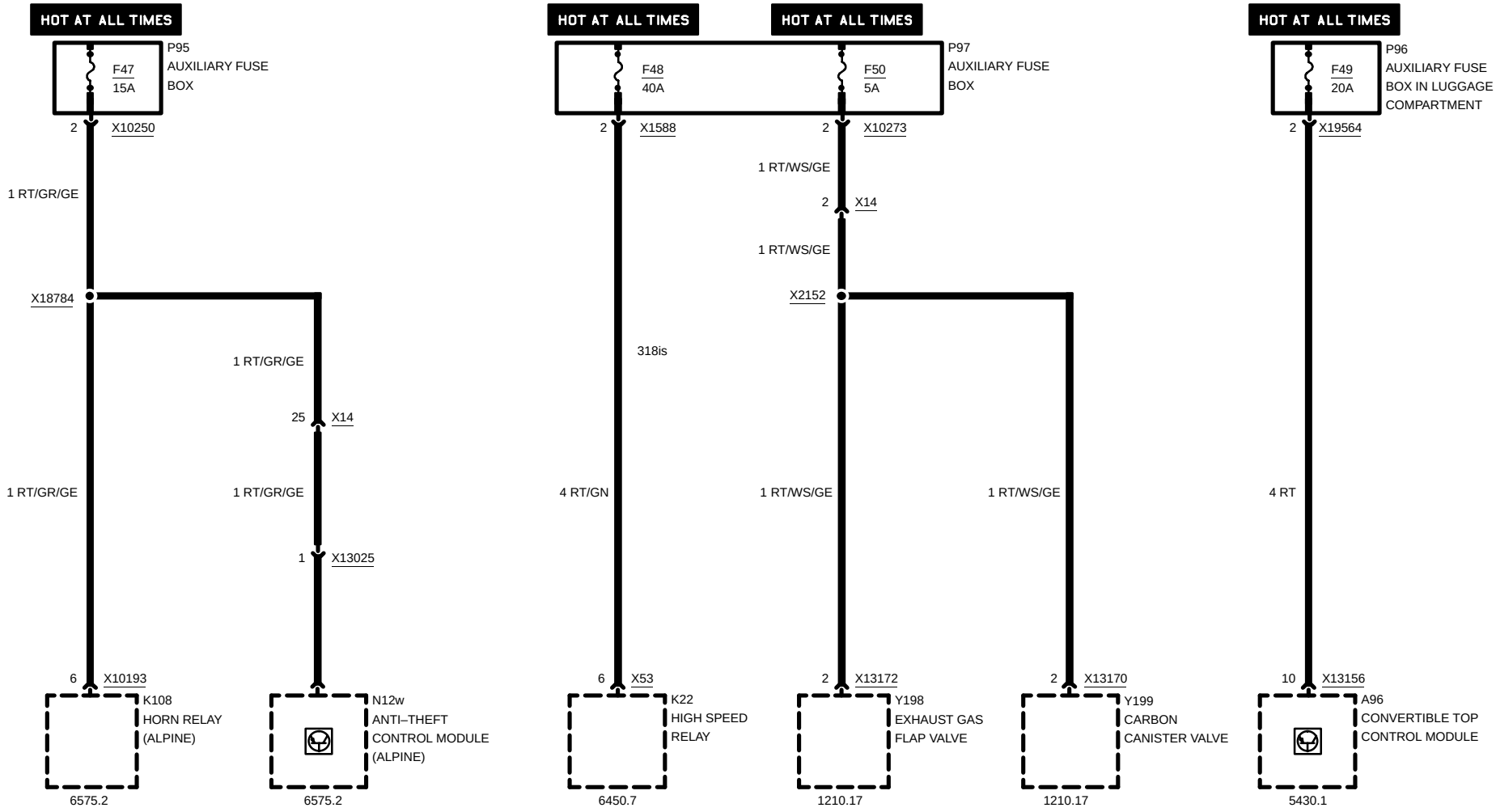
FUSE DETAILS

FUSE 46



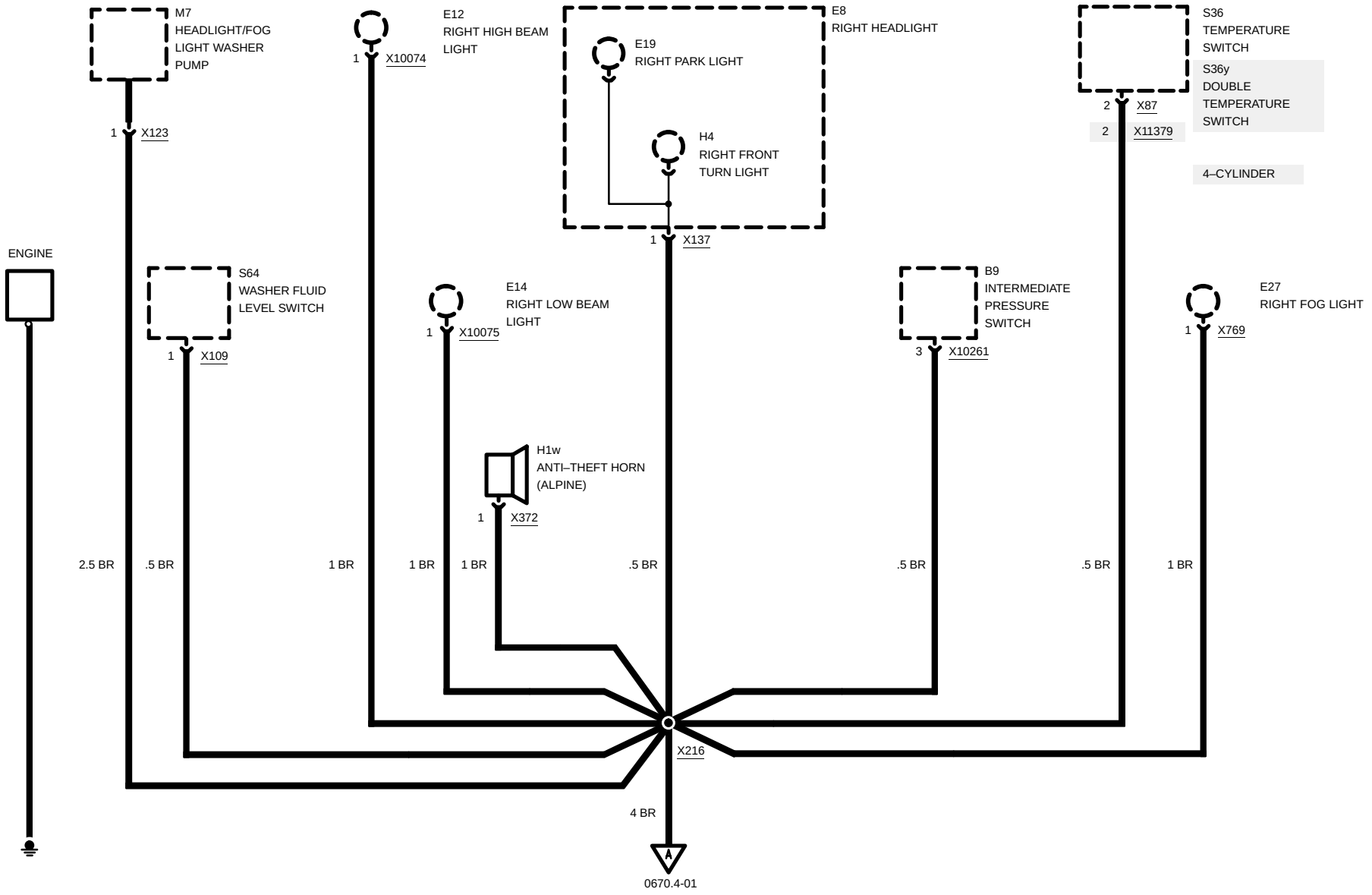
FUSE DETAILS

FUSES 47, 48, 49, AND 50



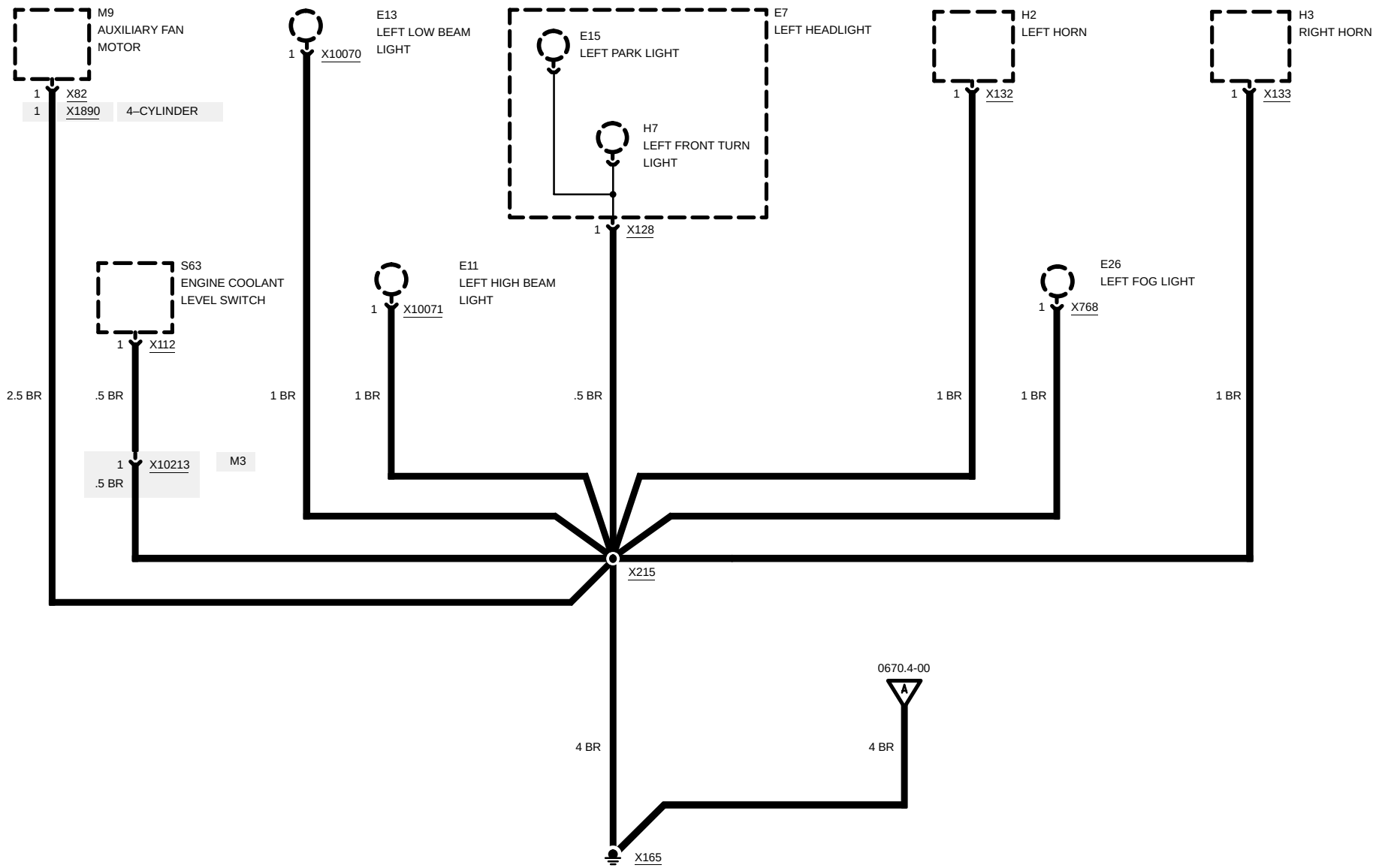
0670.4 GROUND DISTRIBUTION

GROUND X165



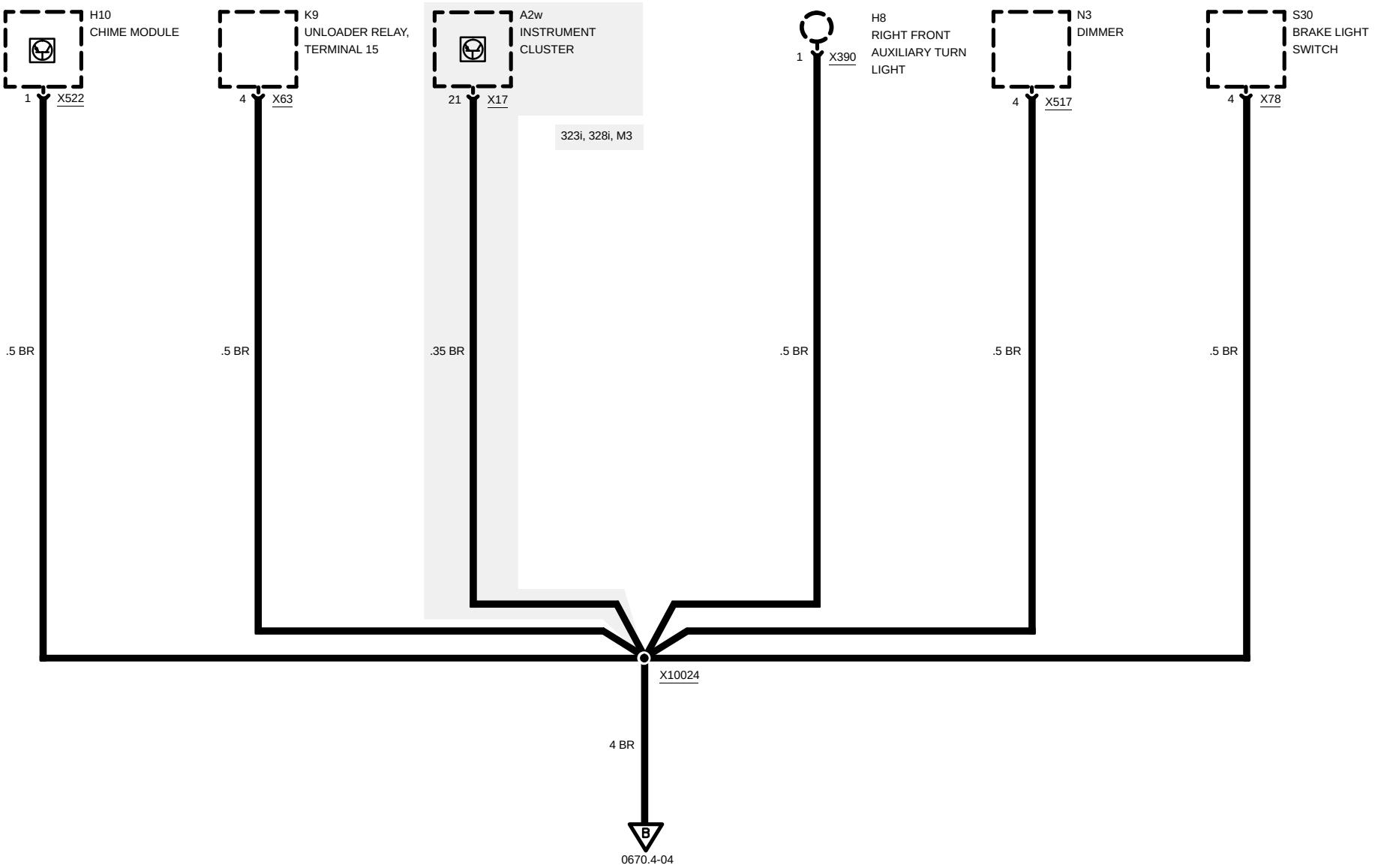
GROUND DISTRIBUTION

GROUND X165



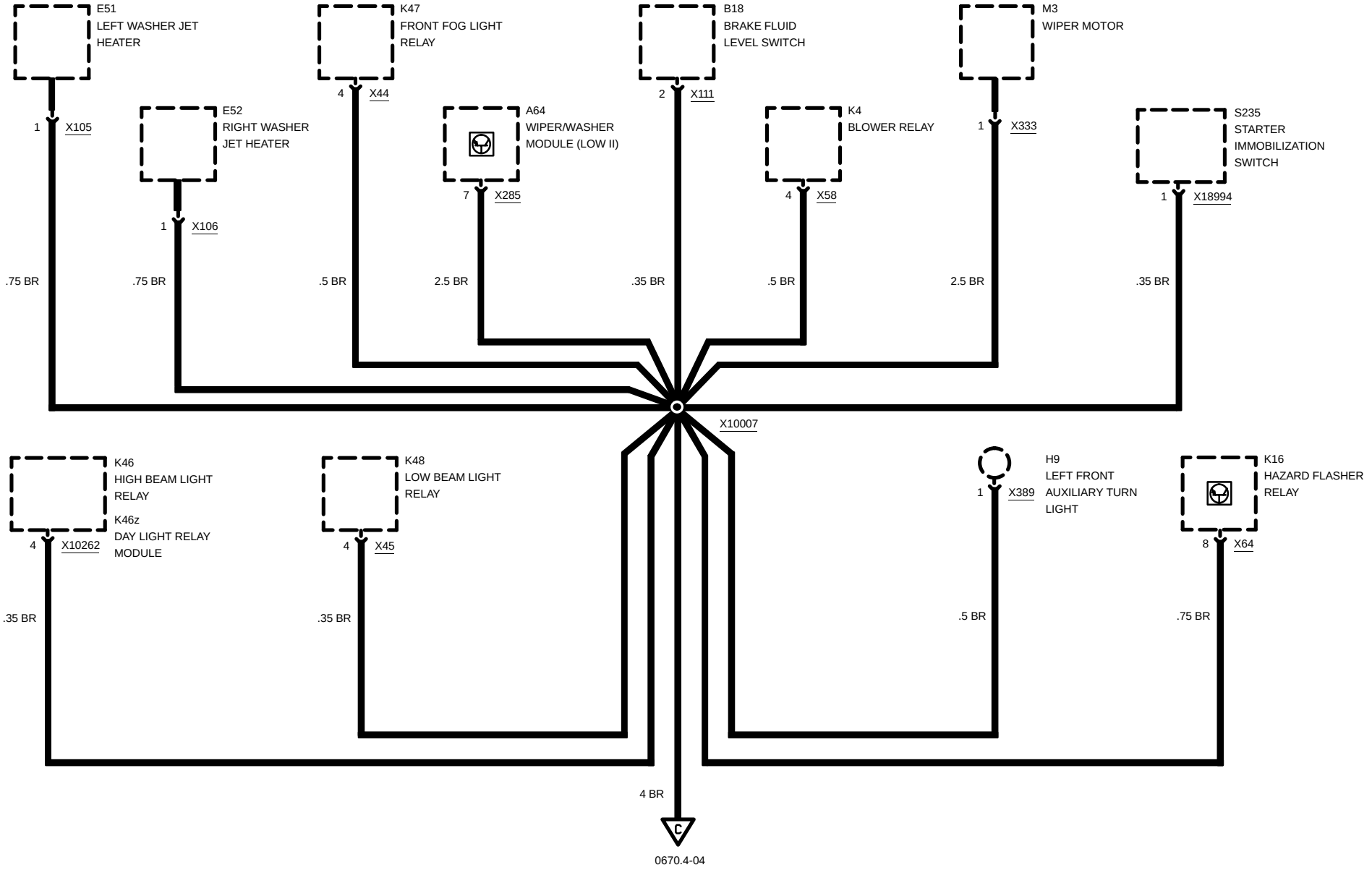
GROUND DISTRIBUTION

GROUND X173



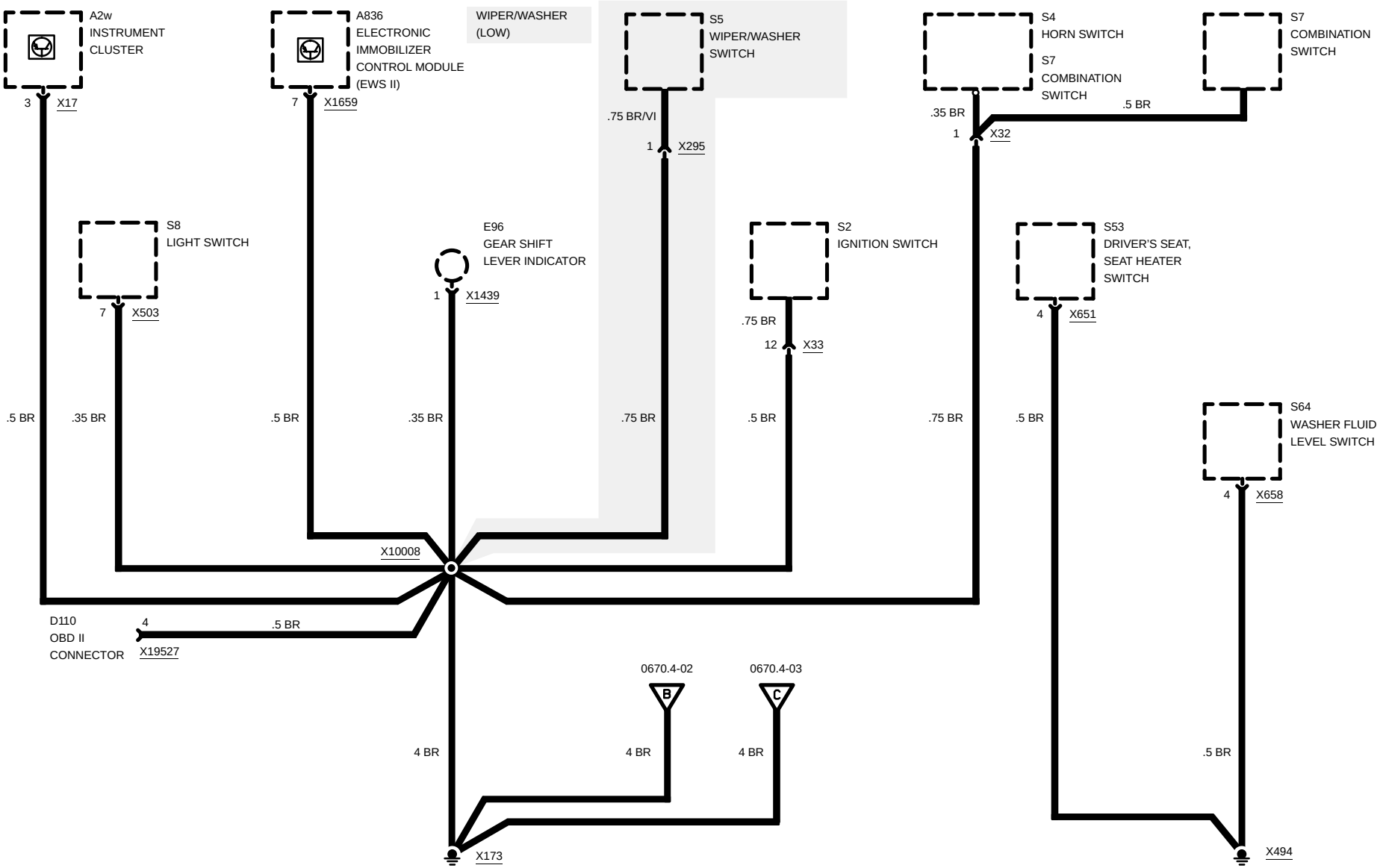
GROUND DISTRIBUTION

GROUND X173



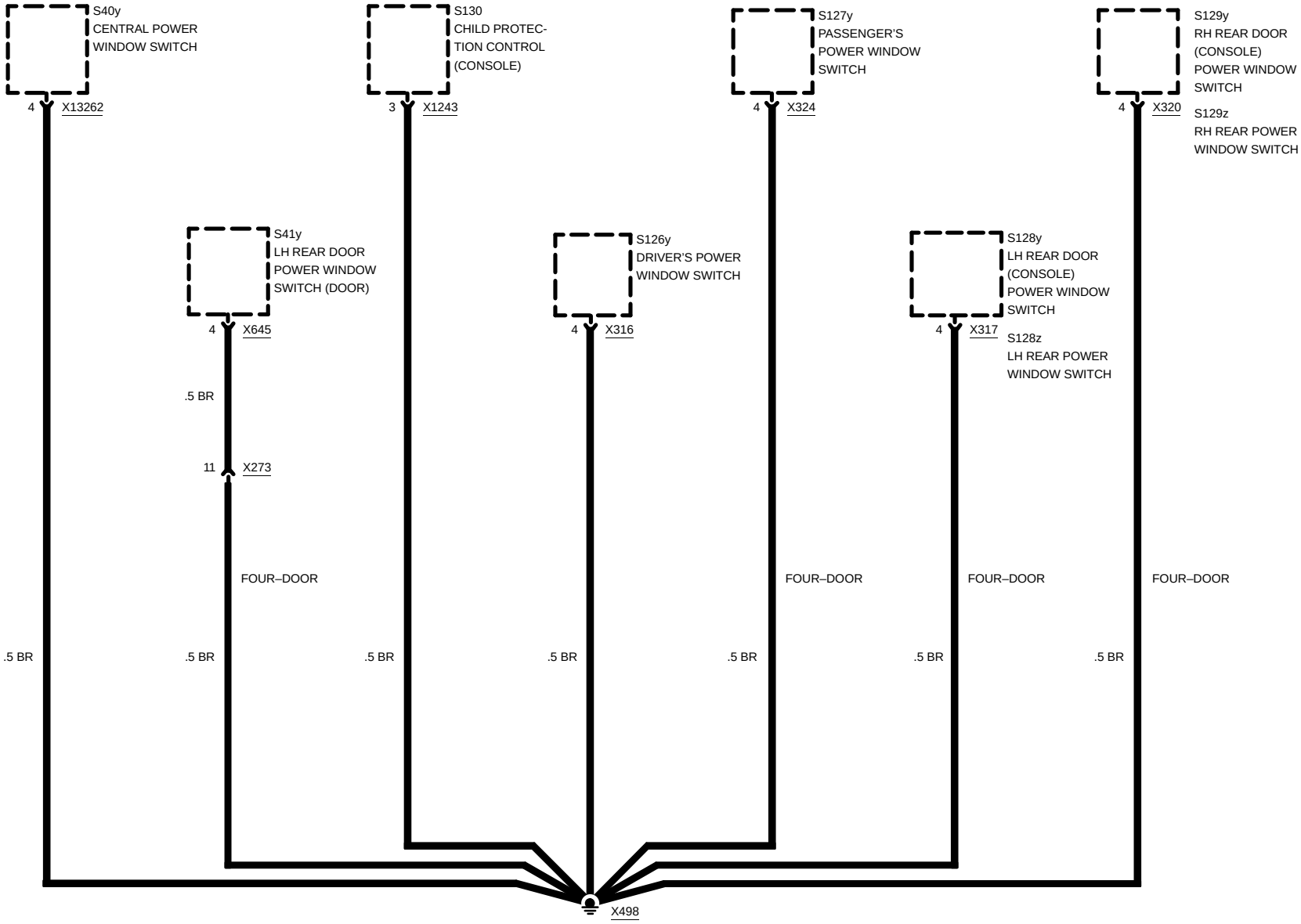
GROUND DISTRIBUTION

GROUNDS X173 AND X494



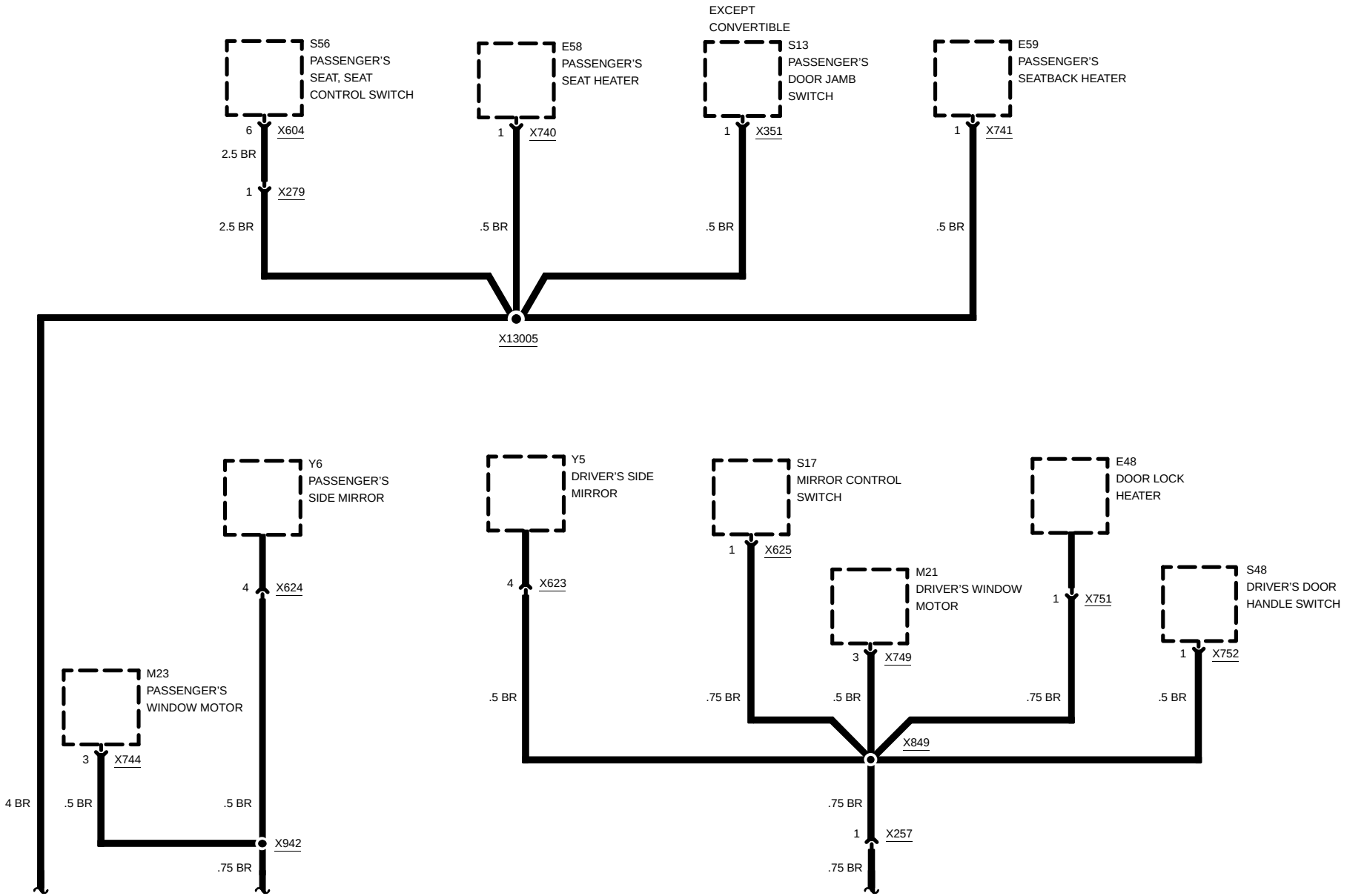
GROUND DISTRIBUTION

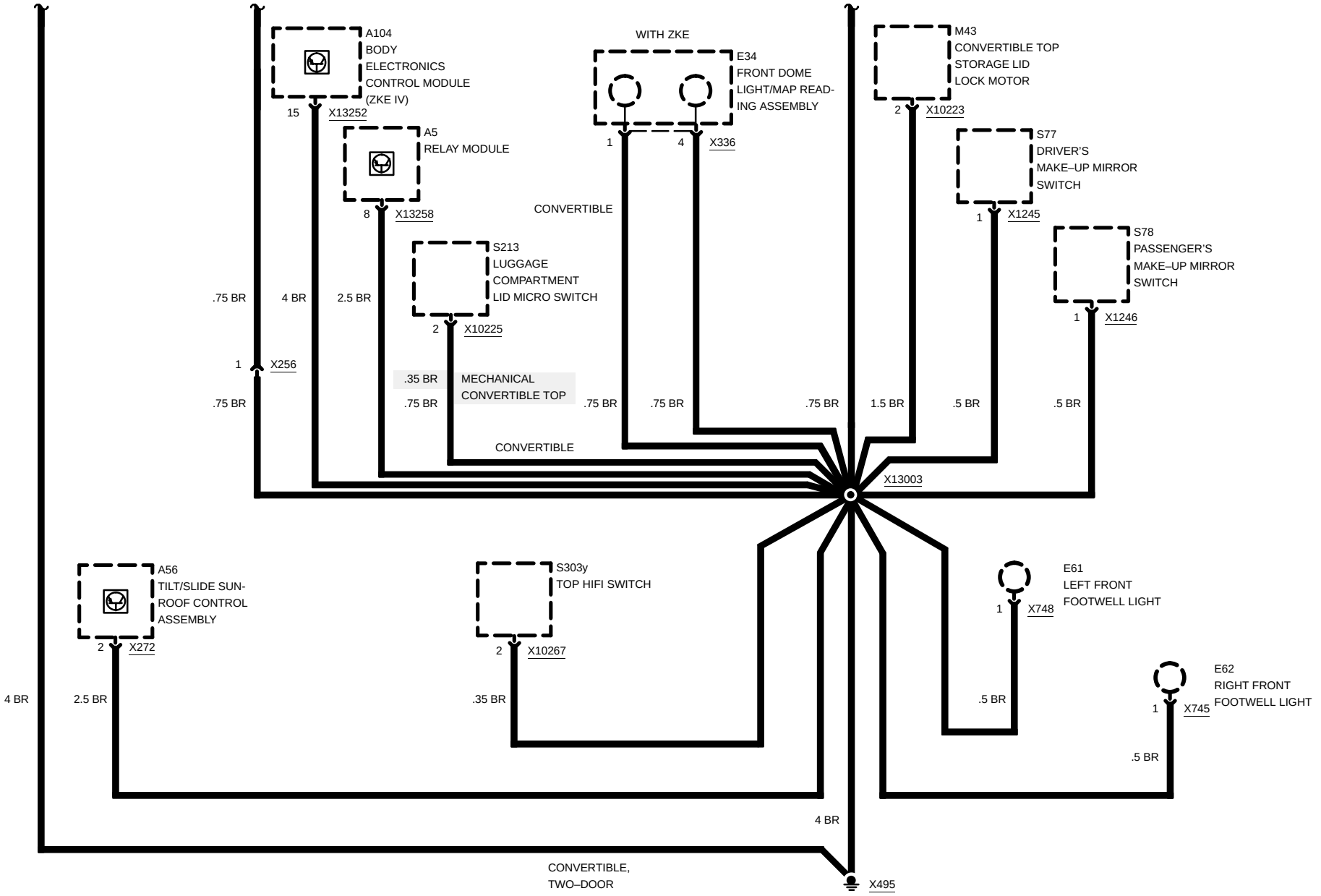
GROUND X498



GROUND DISTRIBUTION

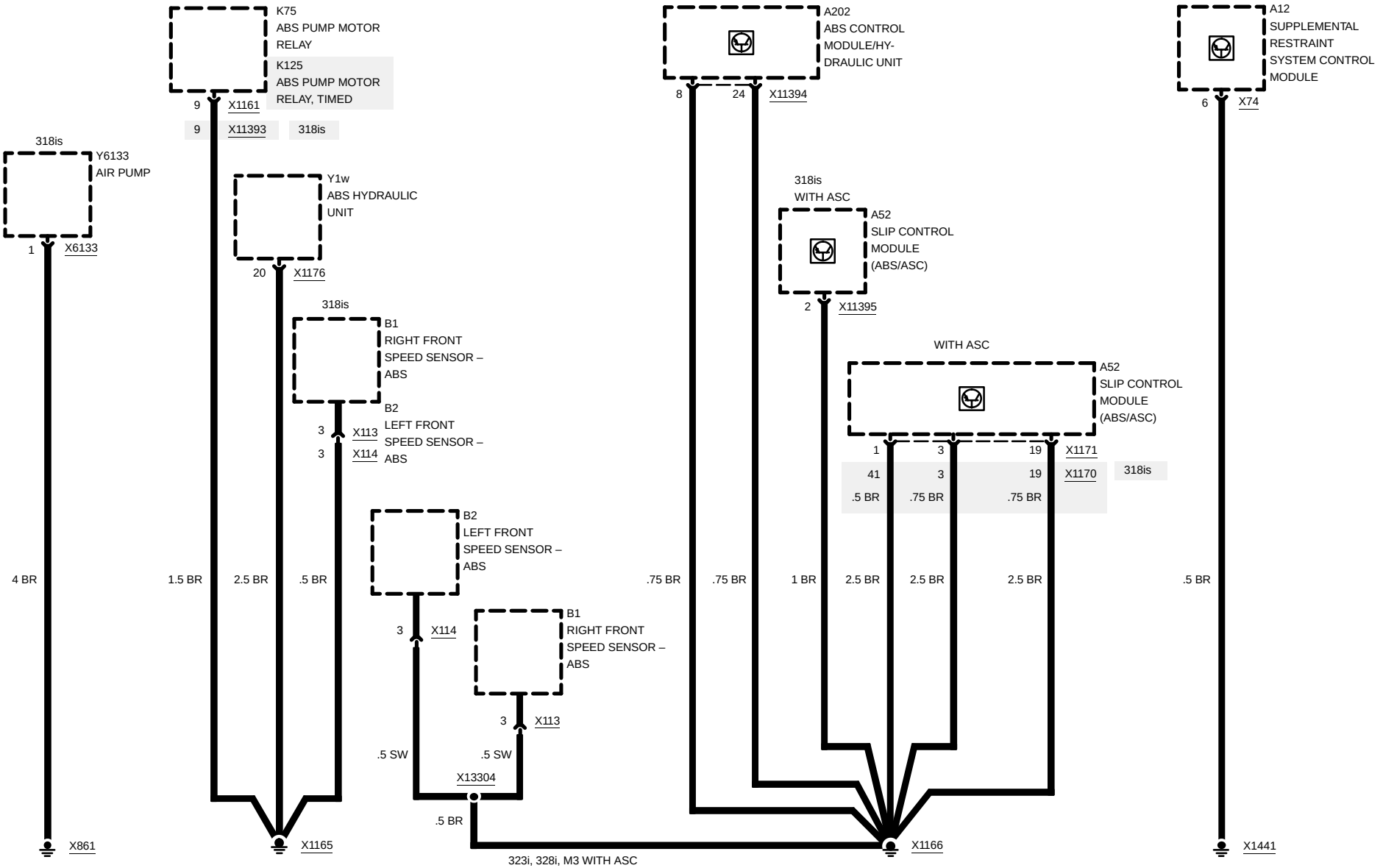
GROUND X495




A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
15
X13252
A5
RELAY MODULE
8
X13258
S213
LUGGAGE
COMPARTMENT
LID MICRO SWITCH
2
X10225
1
X256
.75 BR
4 BR
2.5 BR
.35 BR
MECHANICAL
CONVERTIBLE TOP
.75 BR
CONVERTIBLE
WITH ZKE
E34
FRONT DOME
LIGHT/MAP READ-
ING ASSEMBLY
1
4
X336
CONVERTIBLE
.75 BR
.75 BR
M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR
2
X10223
S77
DRIVER'S
MAKE–UP MIRROR
SWITCH
1
X1245
S78
PASSENGER'S
MAKE–UP MIRROR
SWITCH
1
X1246
.75 BR
1.5 BR
.5 BR
.5 BR
X13003
A56
TILT/SLIDE SUN-
ROOF CONTROL
ASSEMBLY
2
X272
4 BR
2.5 BR
S303y
TOP HIFI SWITCH
2
X10267
.35 BR
E61
LEFT FRONT
FOOTWELL LIGHT
1
X748
.5 BR
E62
RIGHT FRONT
FOOTWELL LIGHT
1
X745
.5 BR
4 BR
CONVERTIBLE,
TWO–DOOR
X495

GROUND DISTRIBUTION

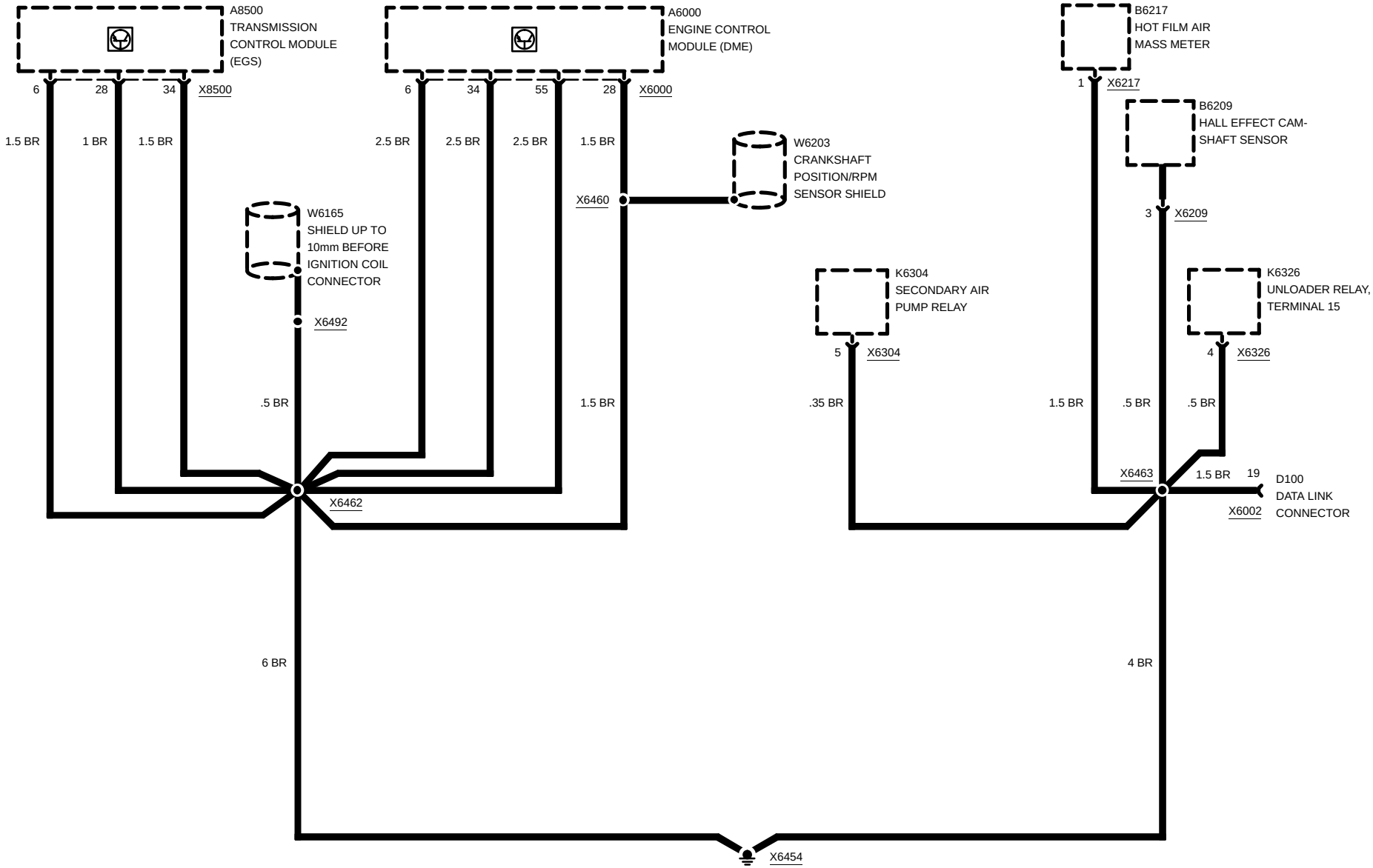
GROUNDS X861, X1165, X1166, AND X1441



GROUND DISTRIBUTION

318is

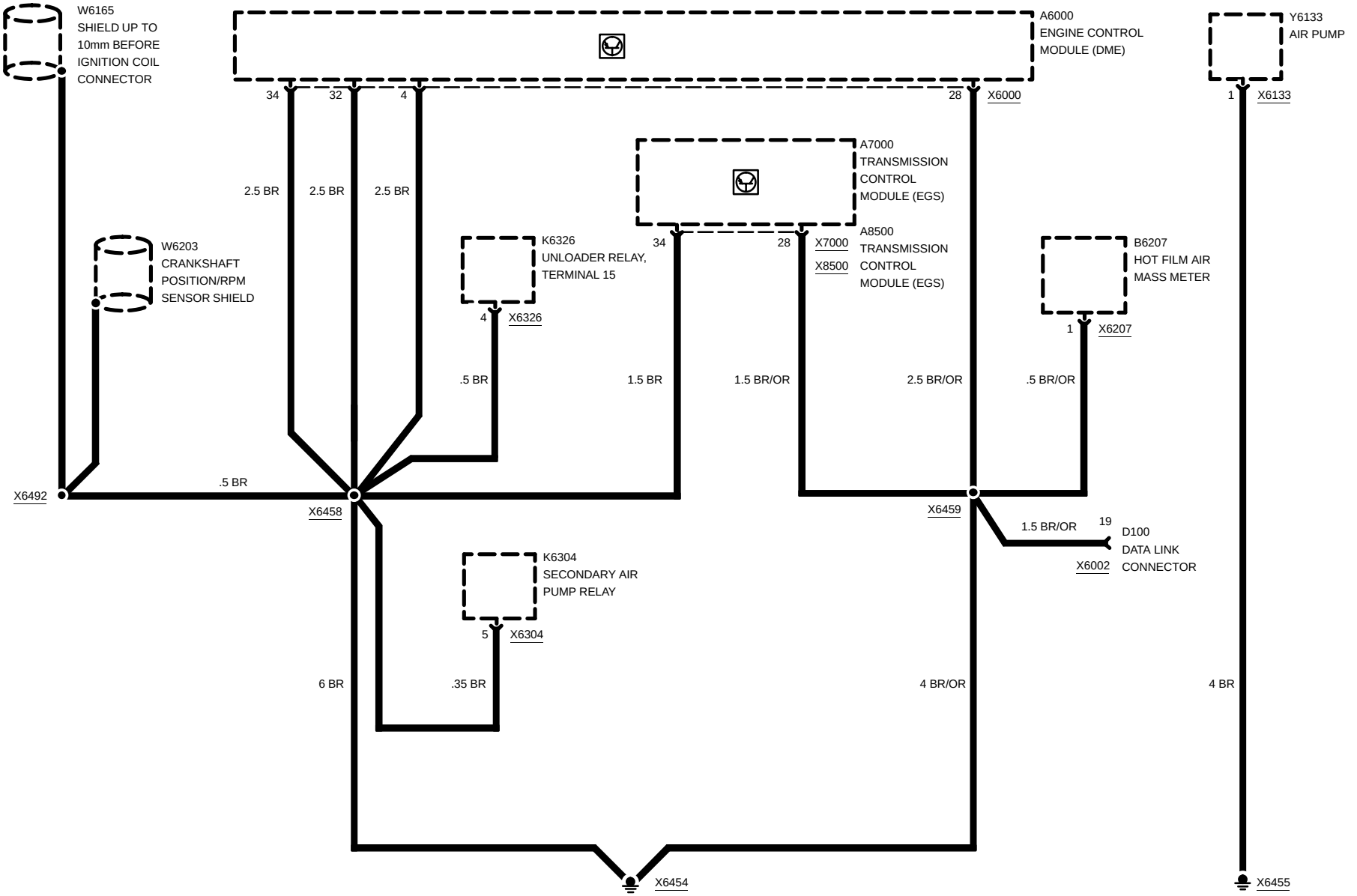
GROUND X6454



GROUND DISTRIBUTION

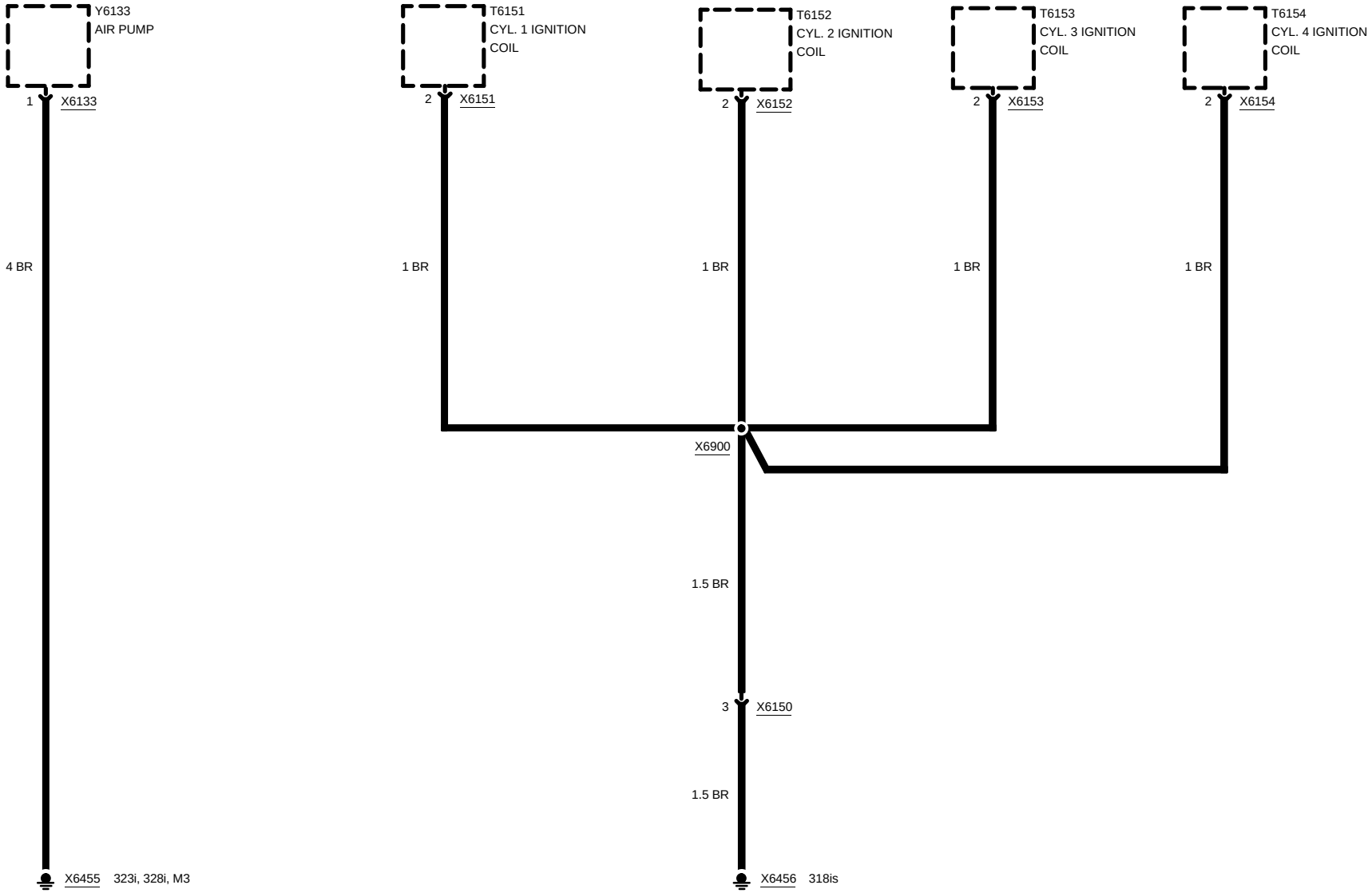
323i, 328i, M3

GROUNDS X6454 AND X6455



GROUND DISTRIBUTION

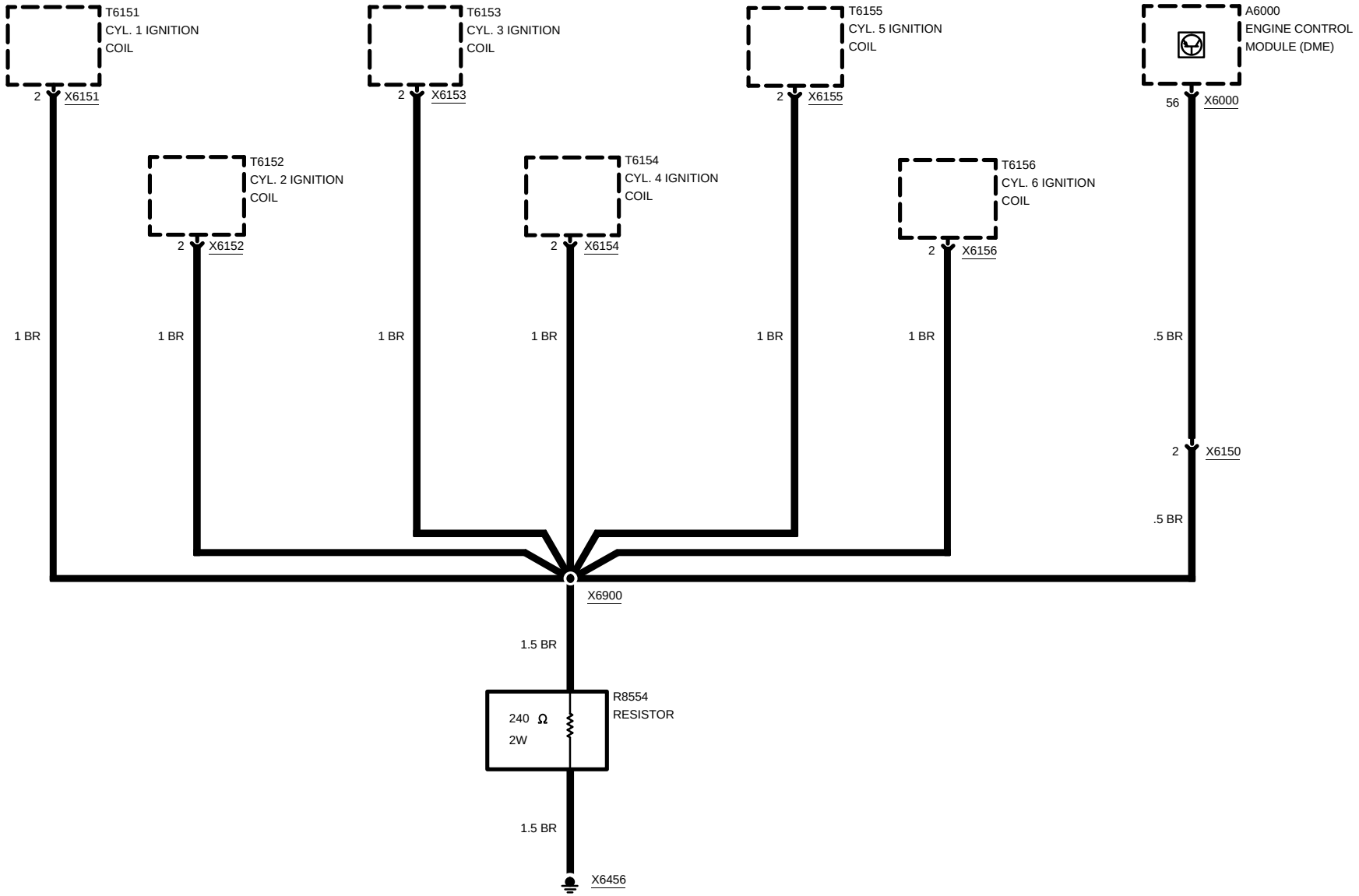
GROUNDS X6455 AND X6456



GROUND DISTRIBUTION

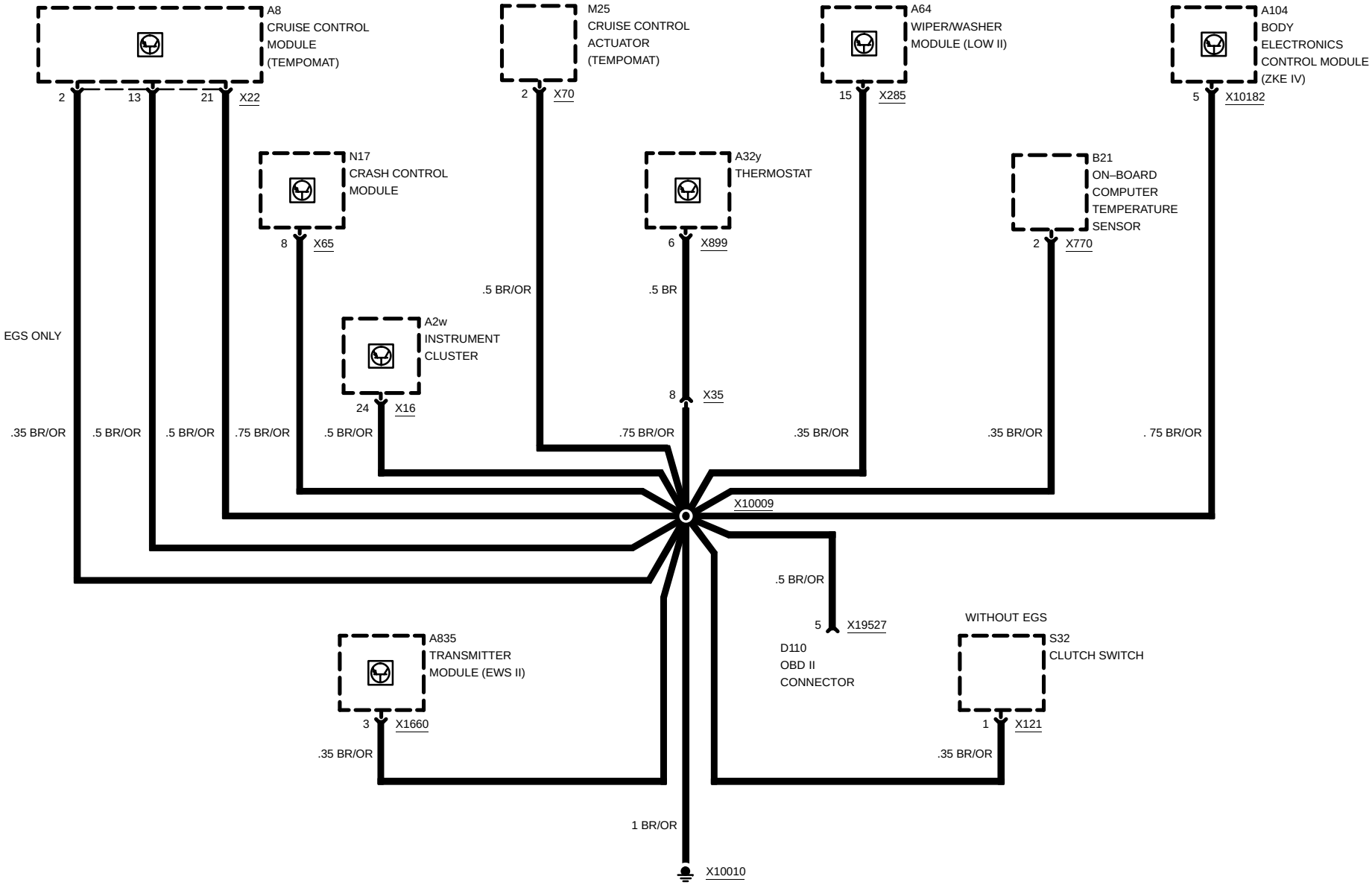
323i, 328i, M3

GROUND X6456



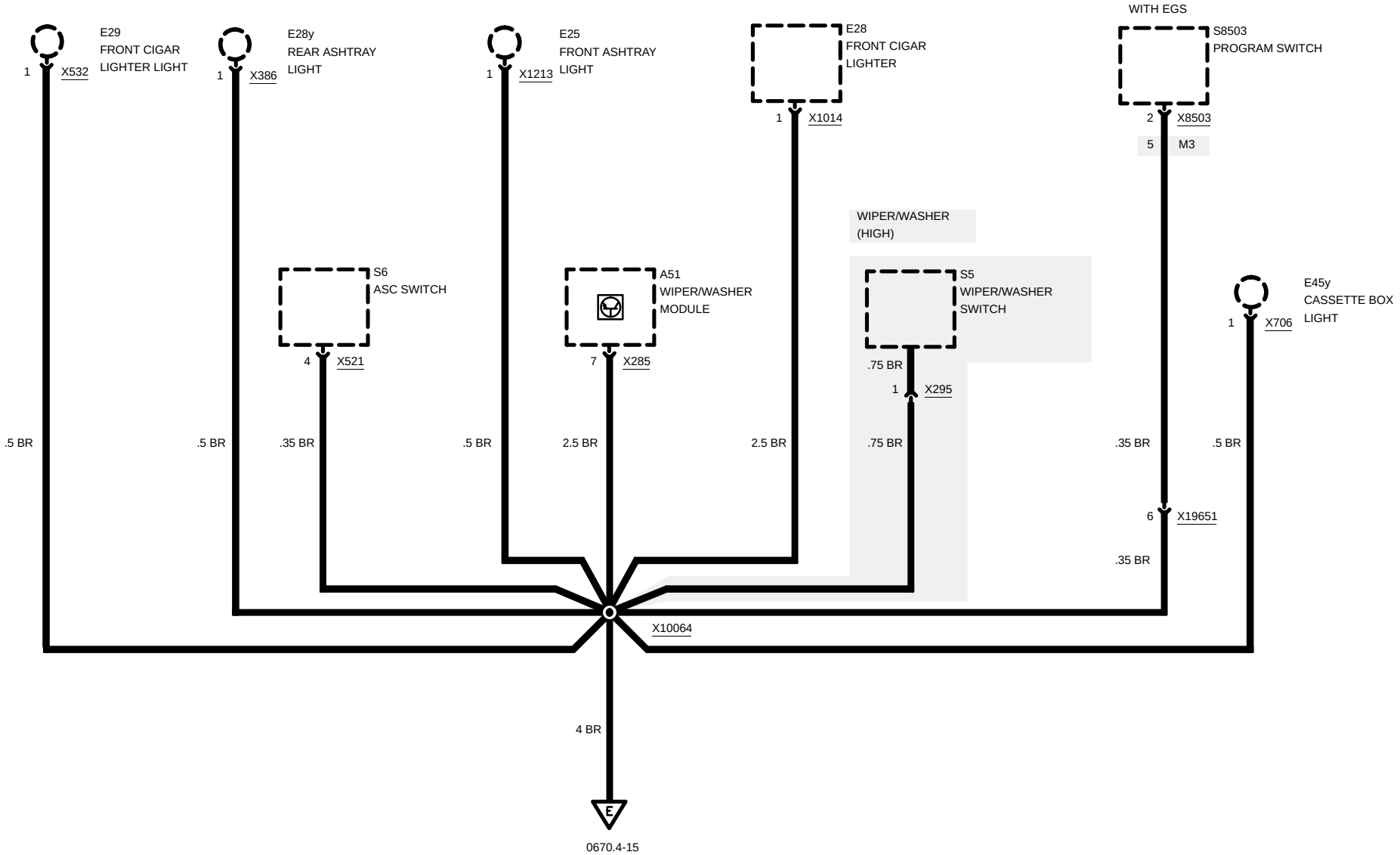
GROUND DISTRIBUTION

GROUND X10010



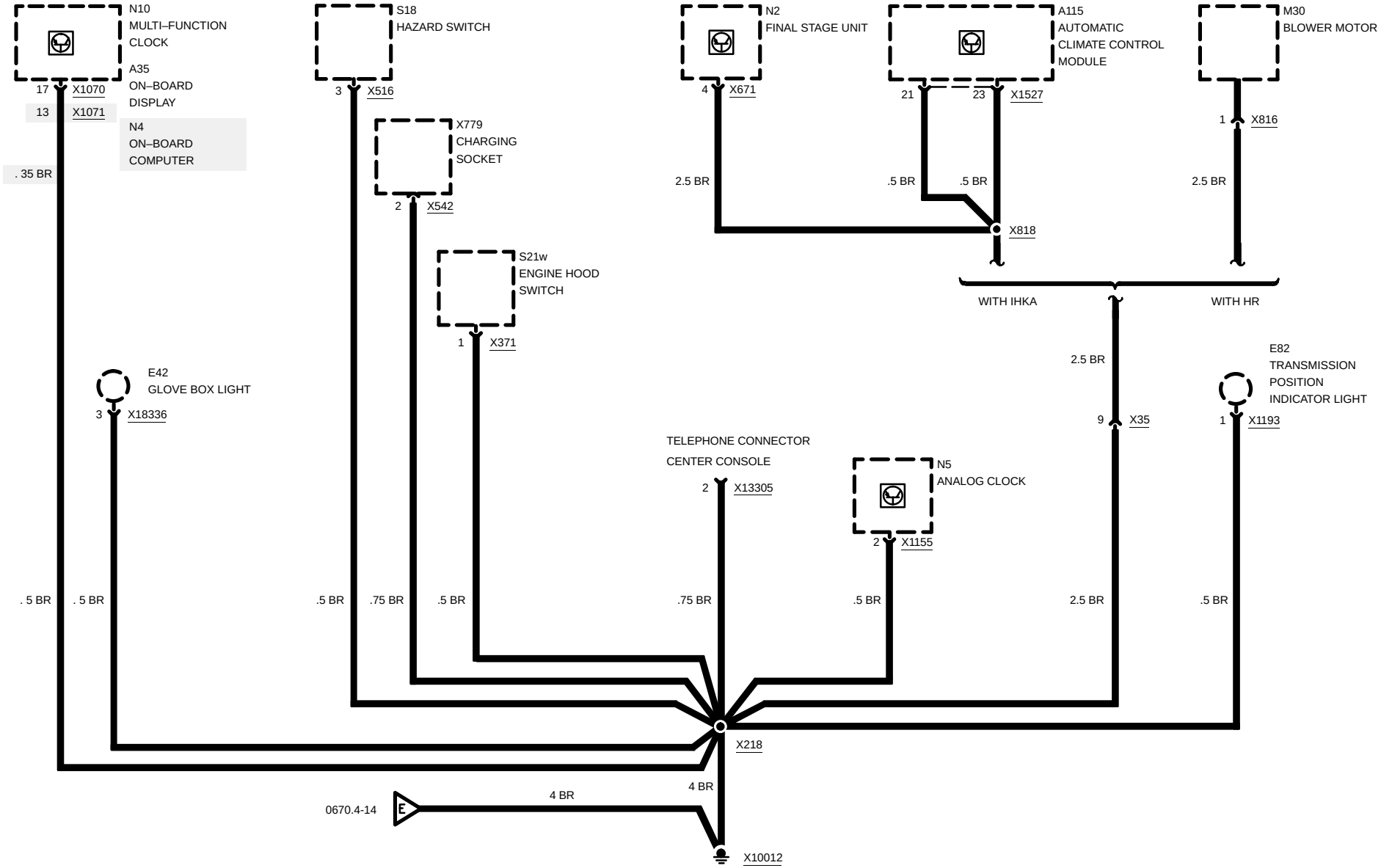
GROUND DISTRIBUTION

GROUND X10012



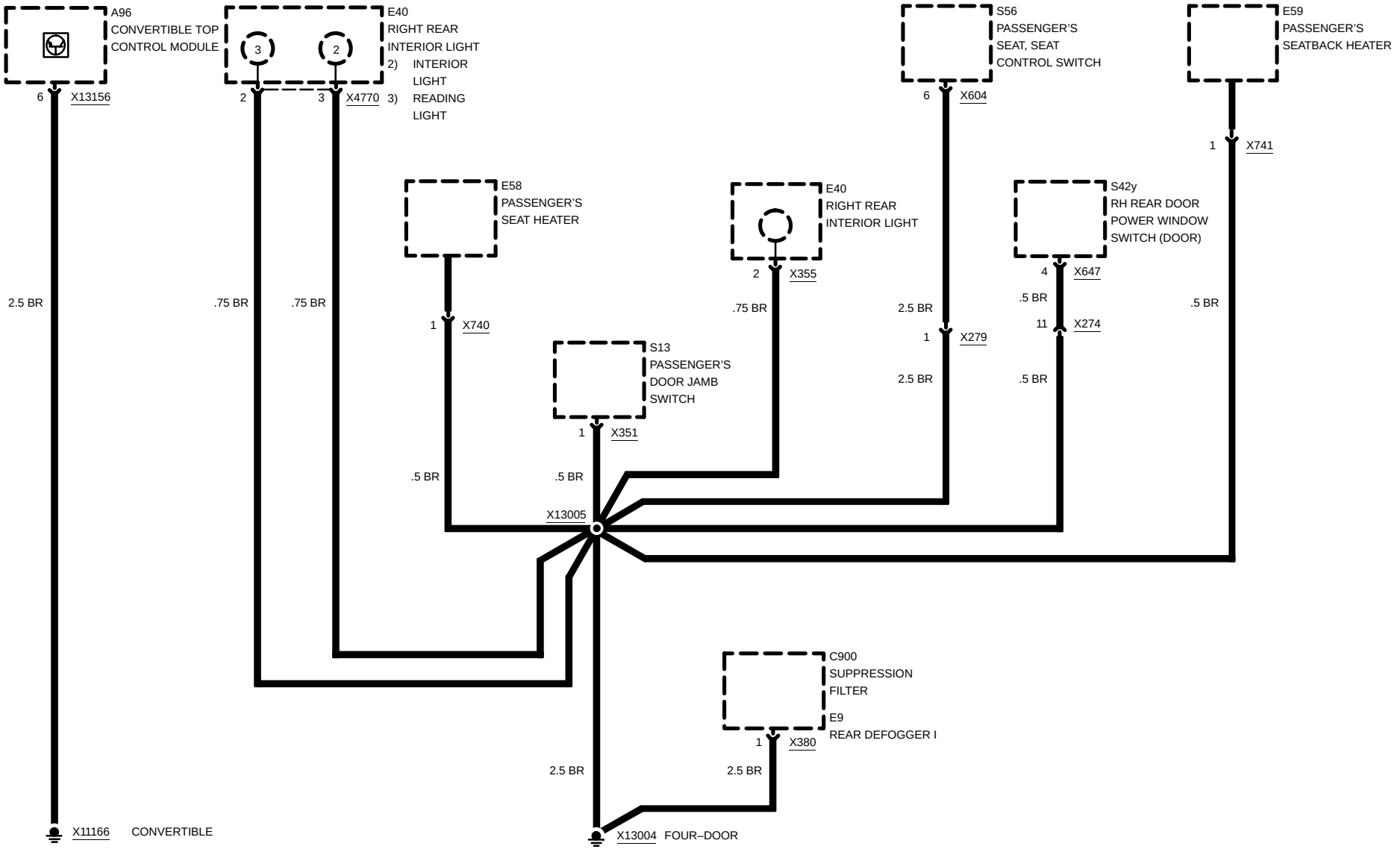
GROUND DISTRIBUTION

GROUND X10012



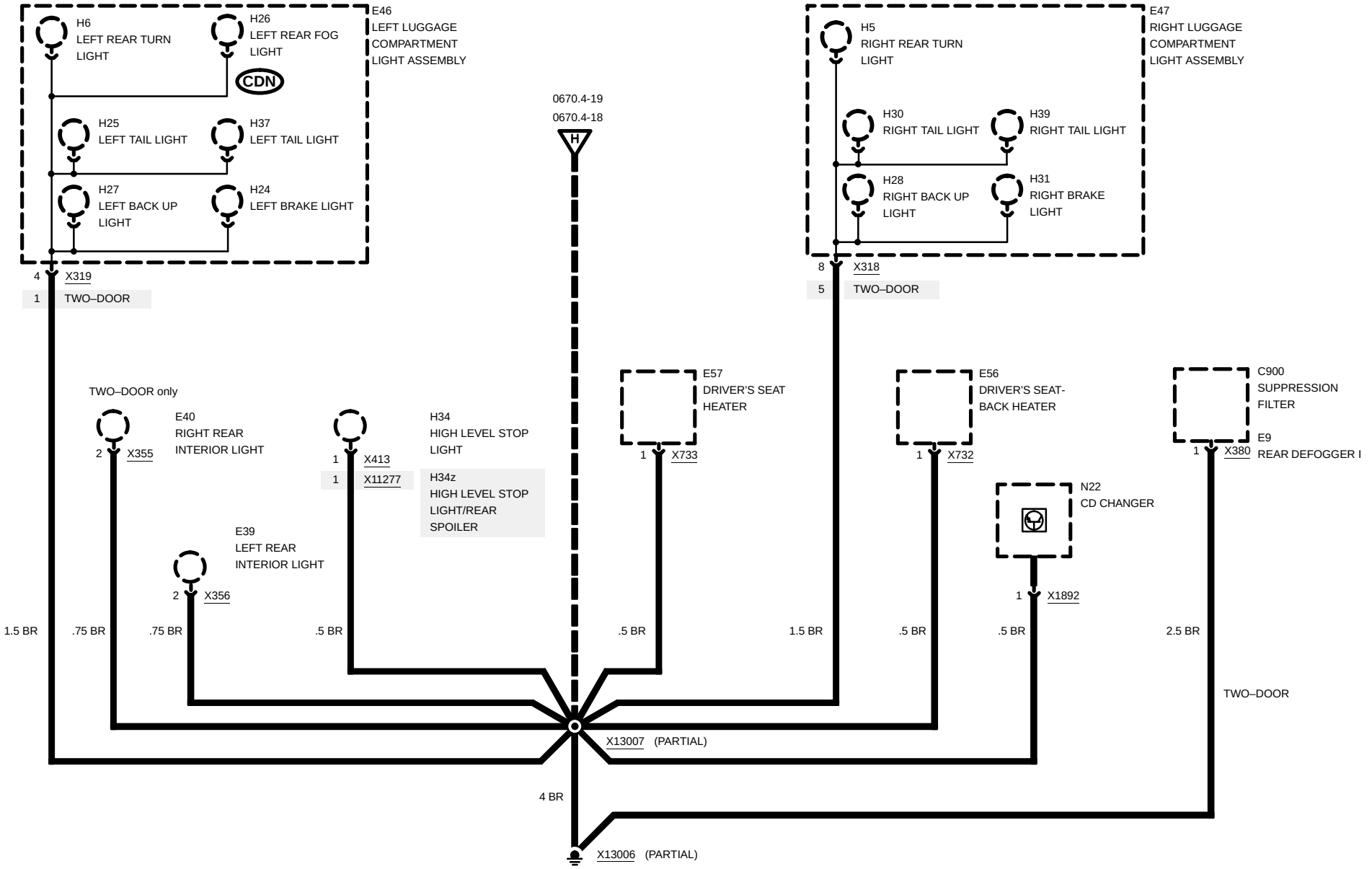
GROUND DISTRIBUTION

GROUNDS X11166 AND X13004



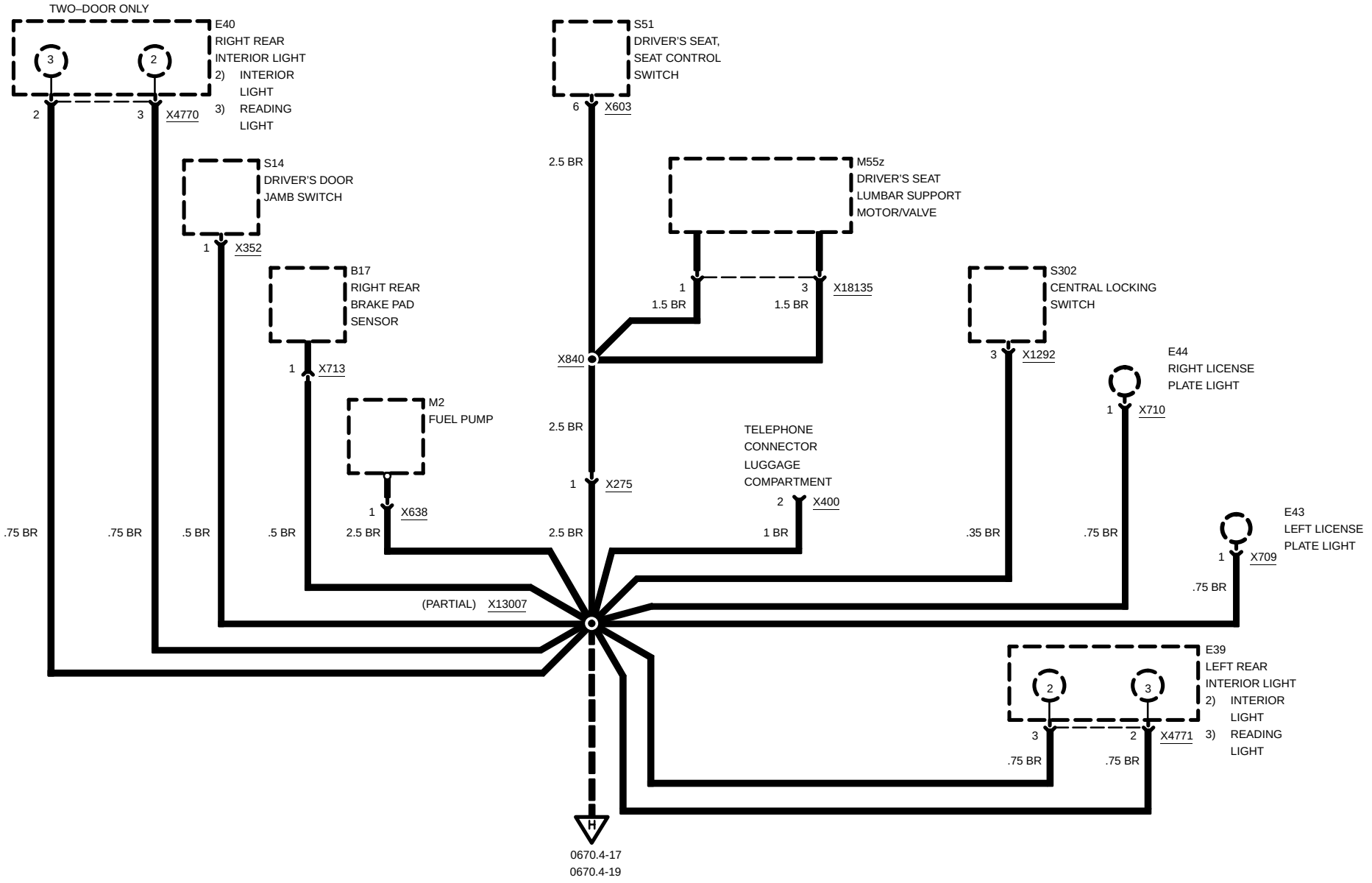
GROUND DISTRIBUTION

GROUND X13006



GROUND DISTRIBUTION

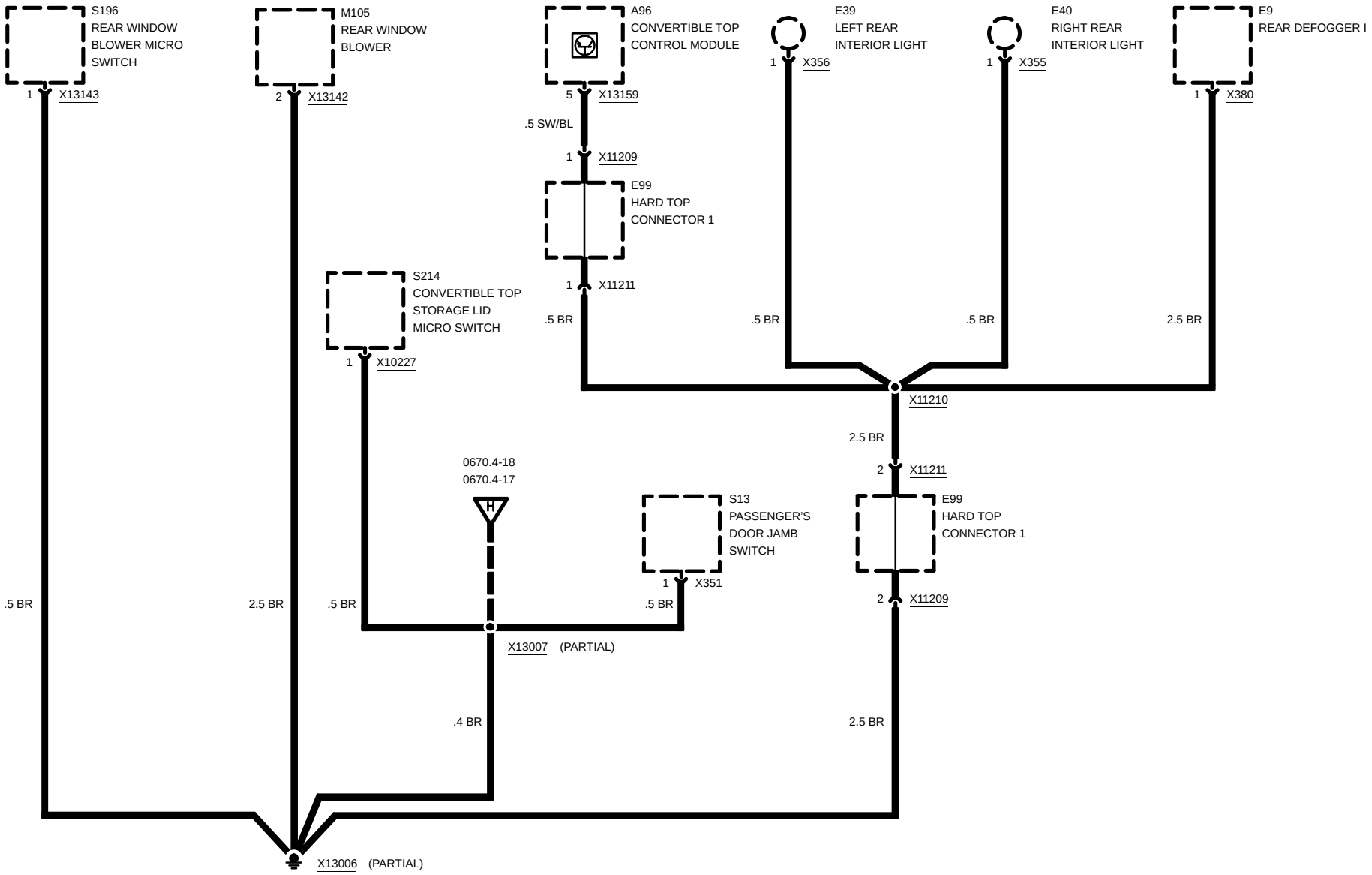
GROUND X13006



GROUND DISTRIBUTION

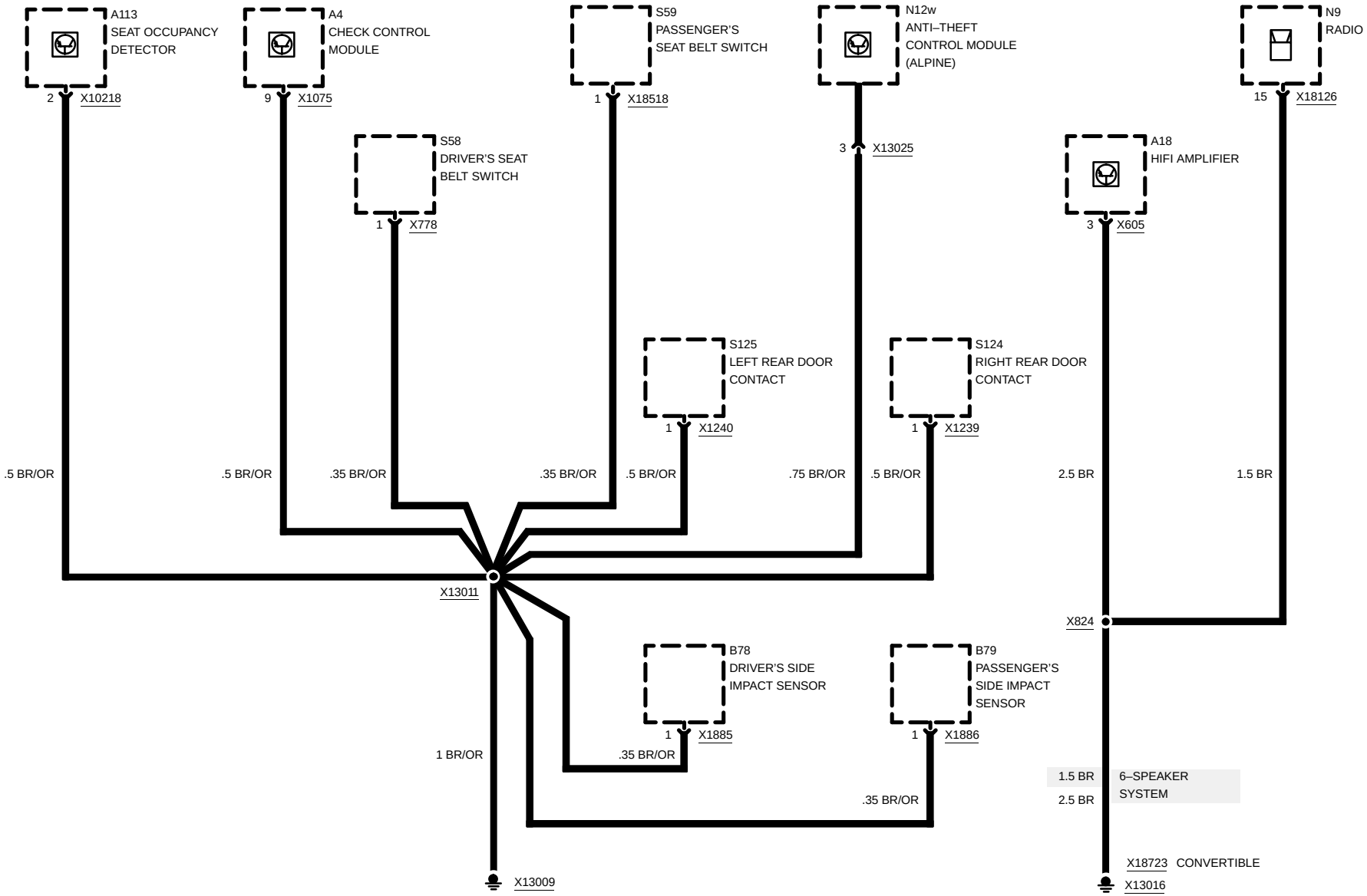
CONVERTIBLE

GROUND X13006



GROUND DISTRIBUTION

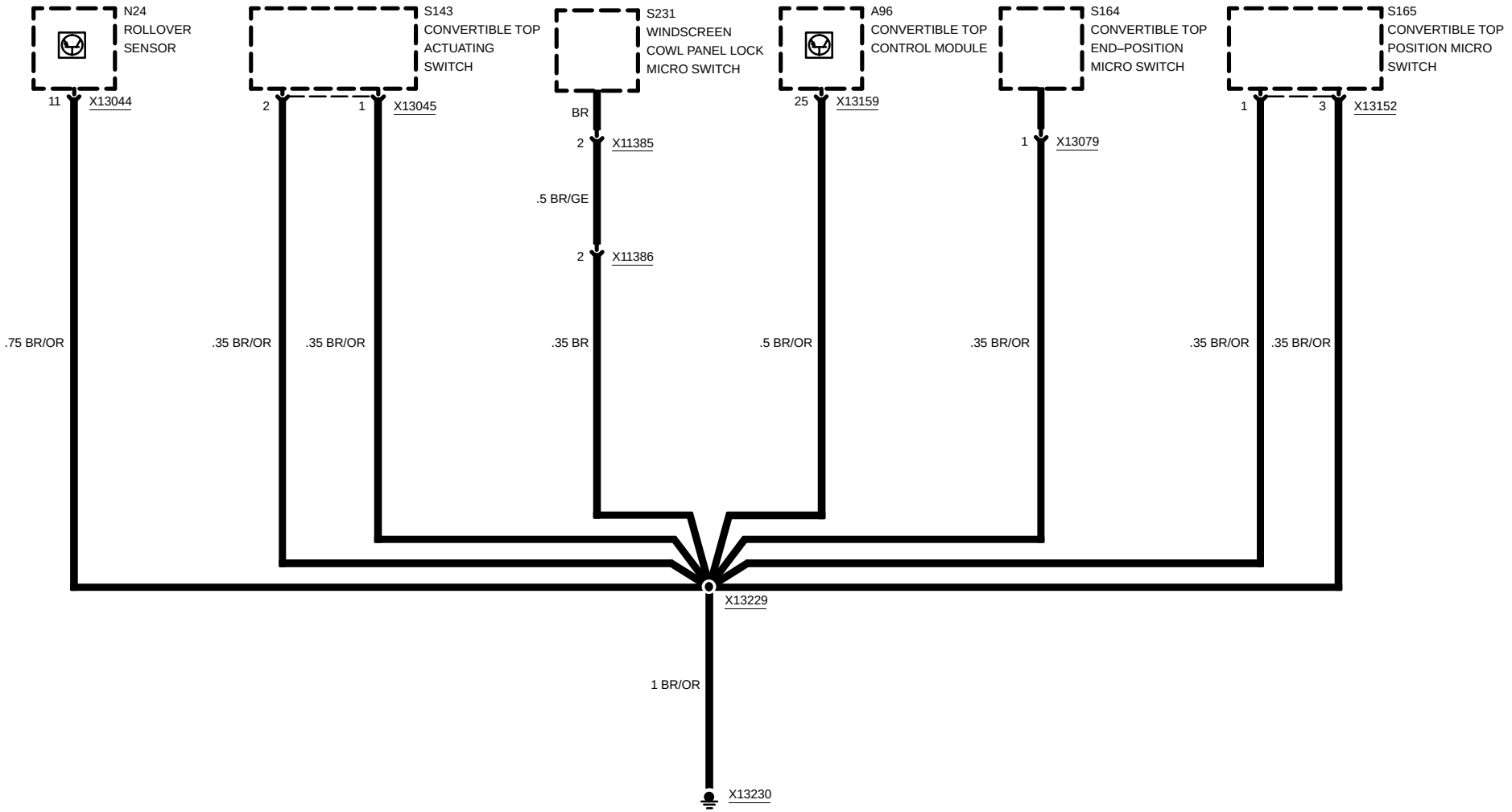
GROUNDS X13009, X13016, AND X18723



GROUND DISTRIBUTION

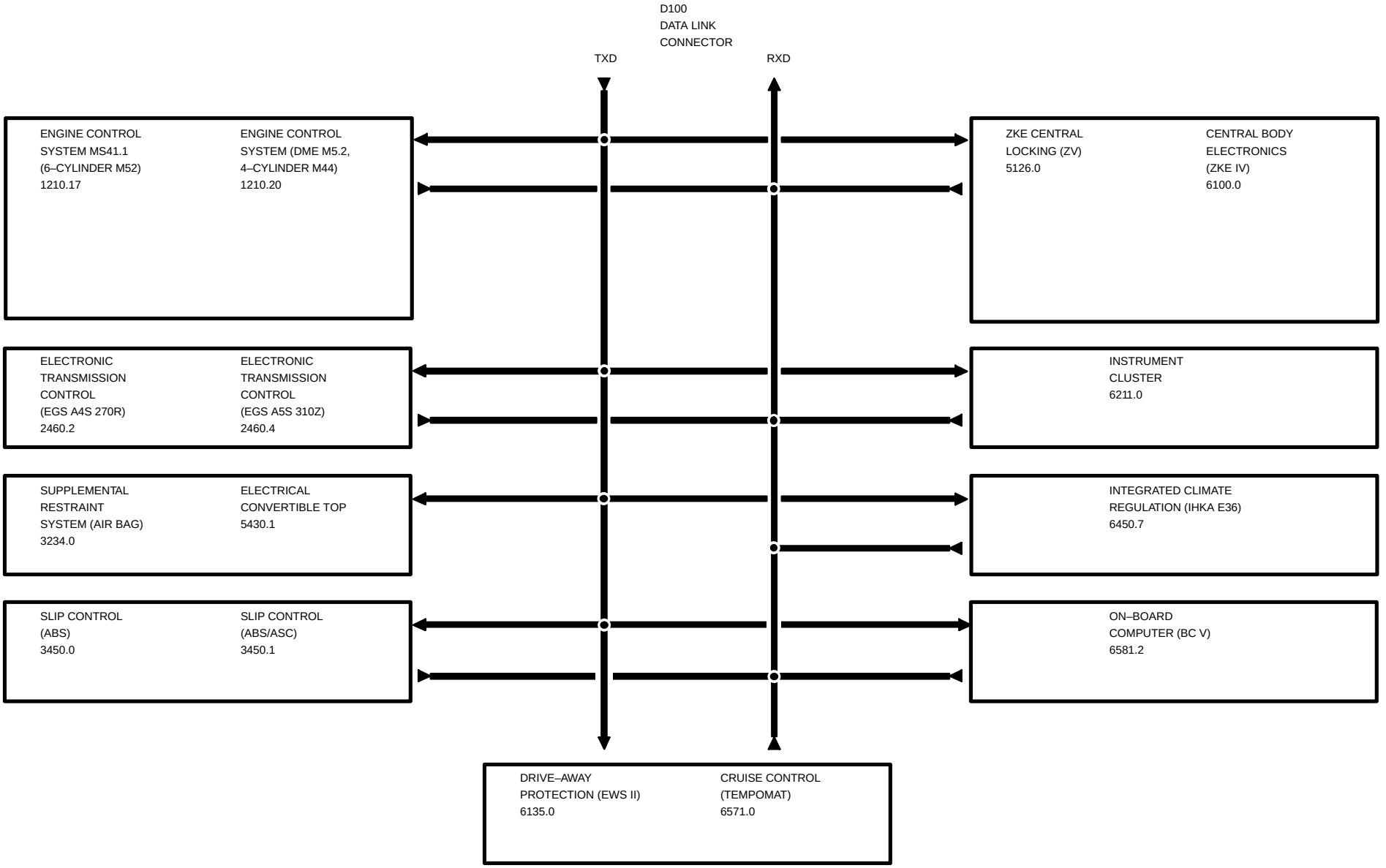
CONVERTIBLE

GROUND X13230



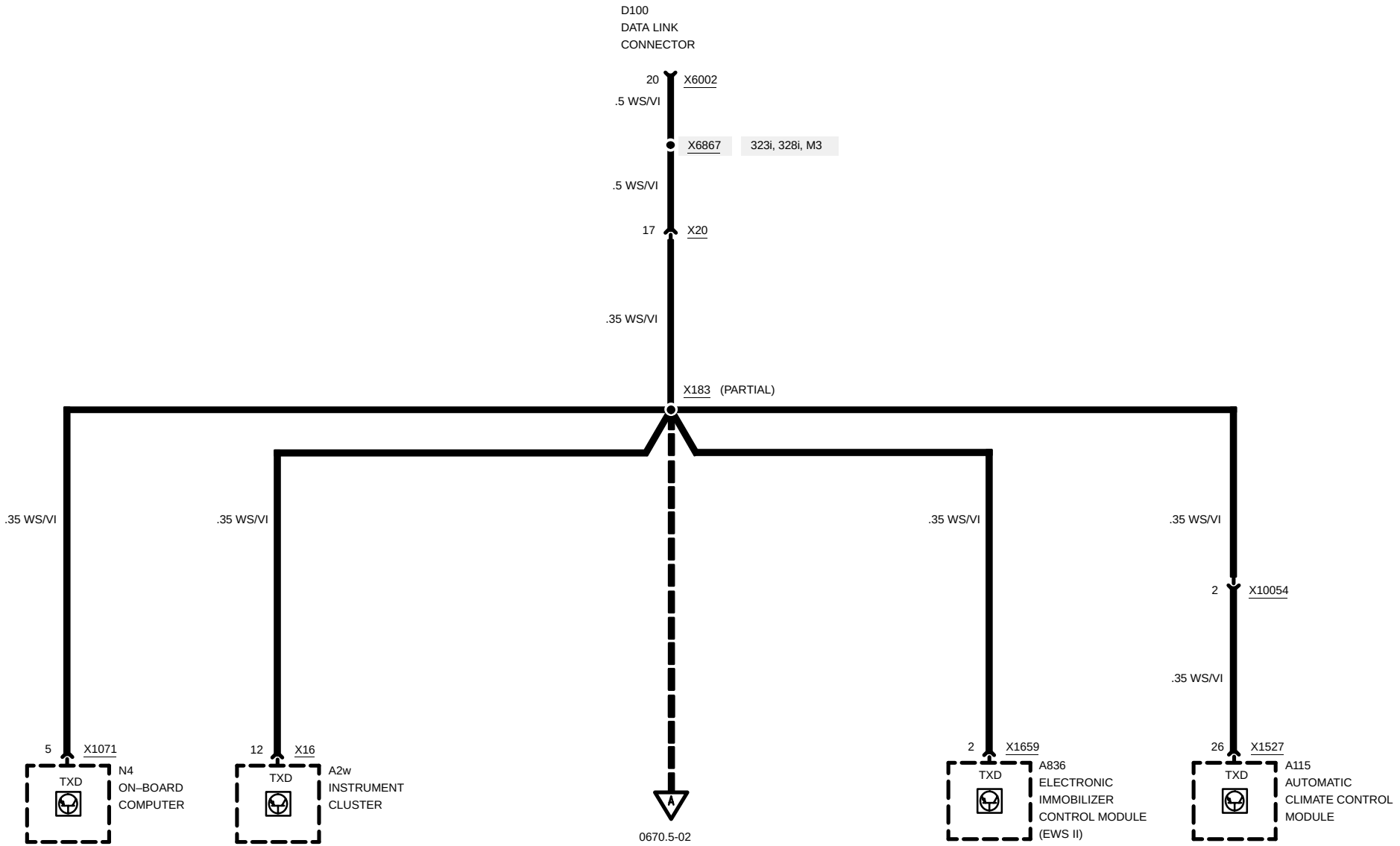
0670.5 DATA LINK

BLOCK DIAGRAM



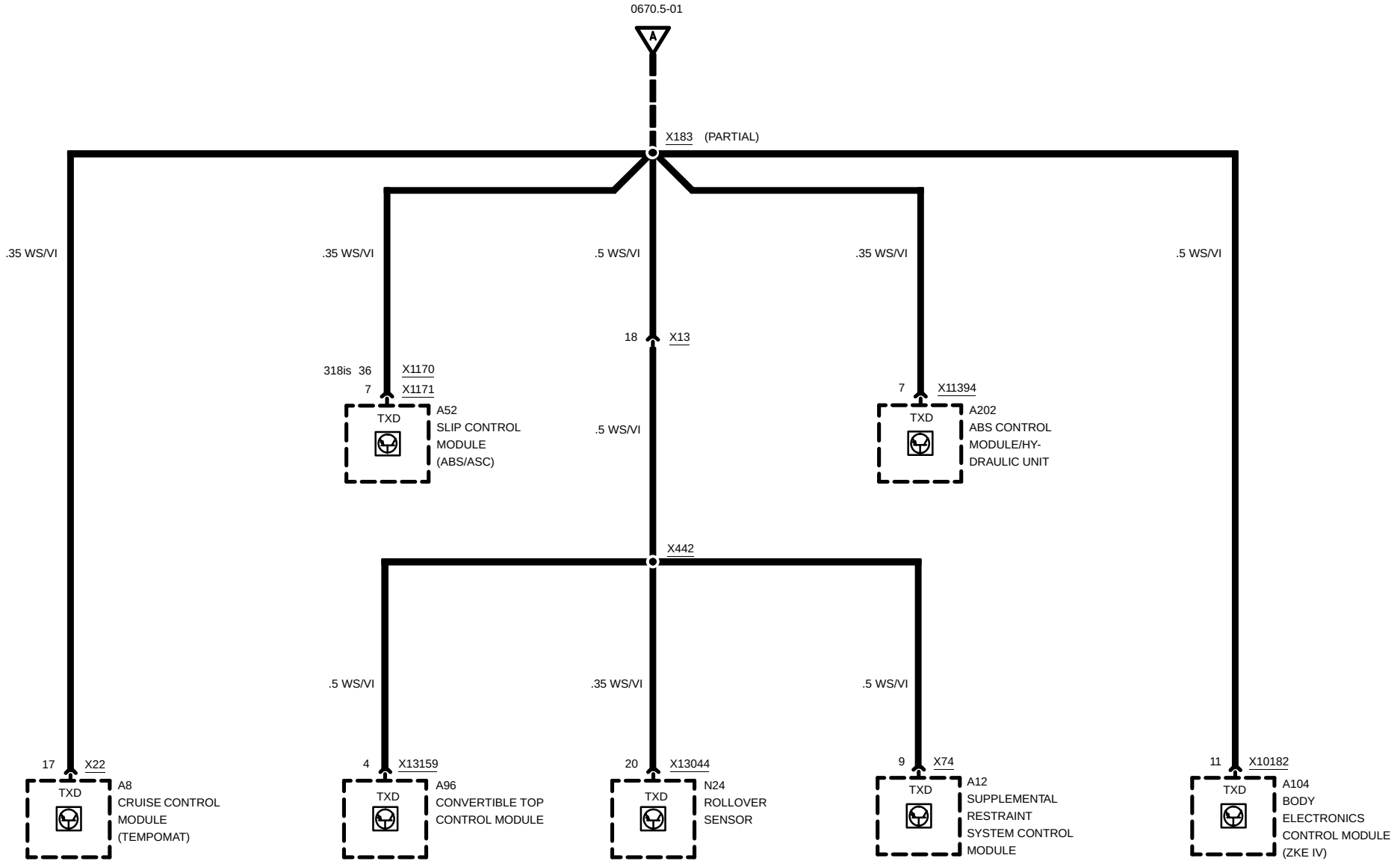
DATA LINK

TXD, PIN 20



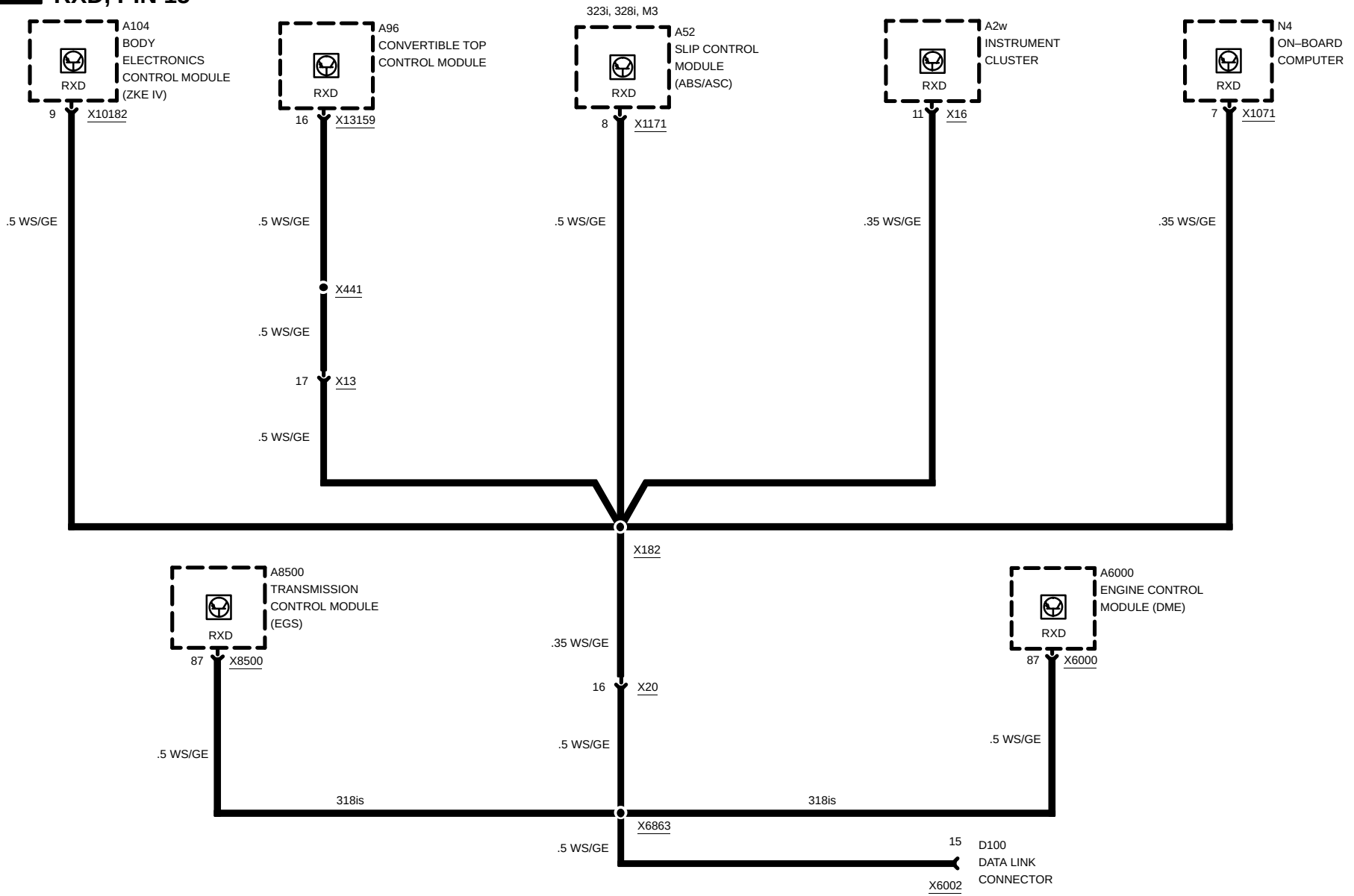
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TXD, PIN 20



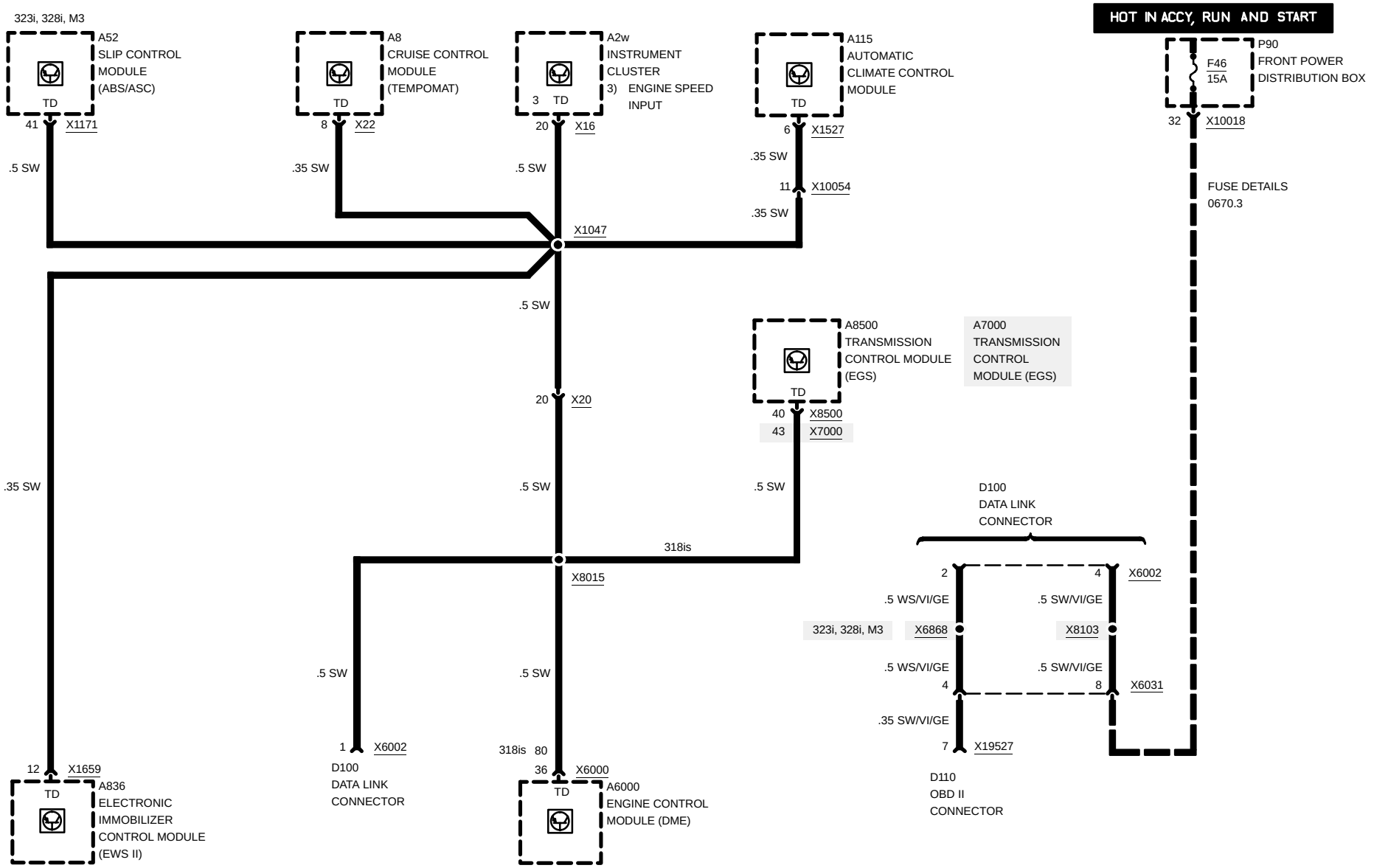
DATA LINK

RXD, PIN 15



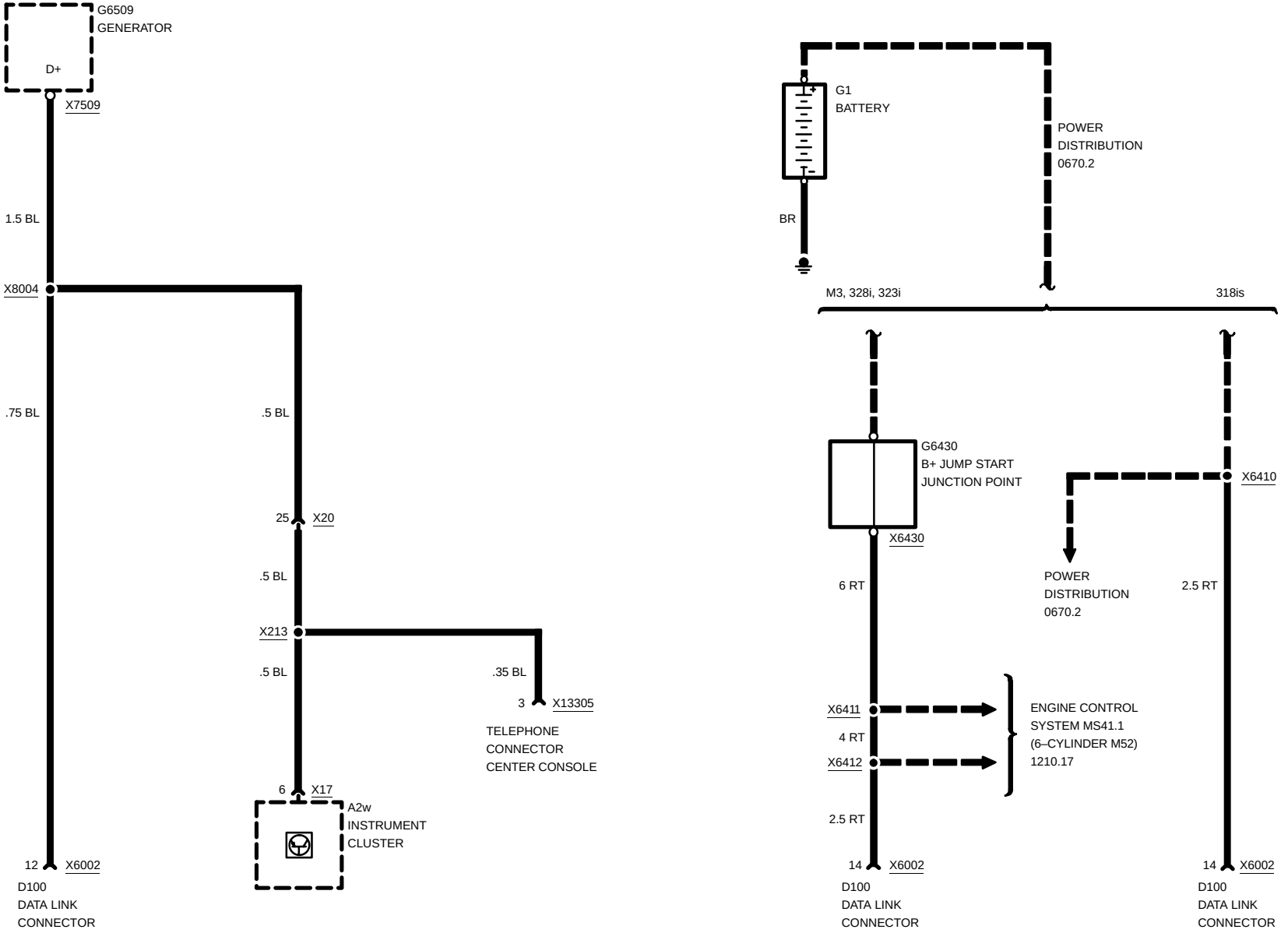
DATA LINK

DATA LINK CONNECTOR, PINS 1, 2, AND 4



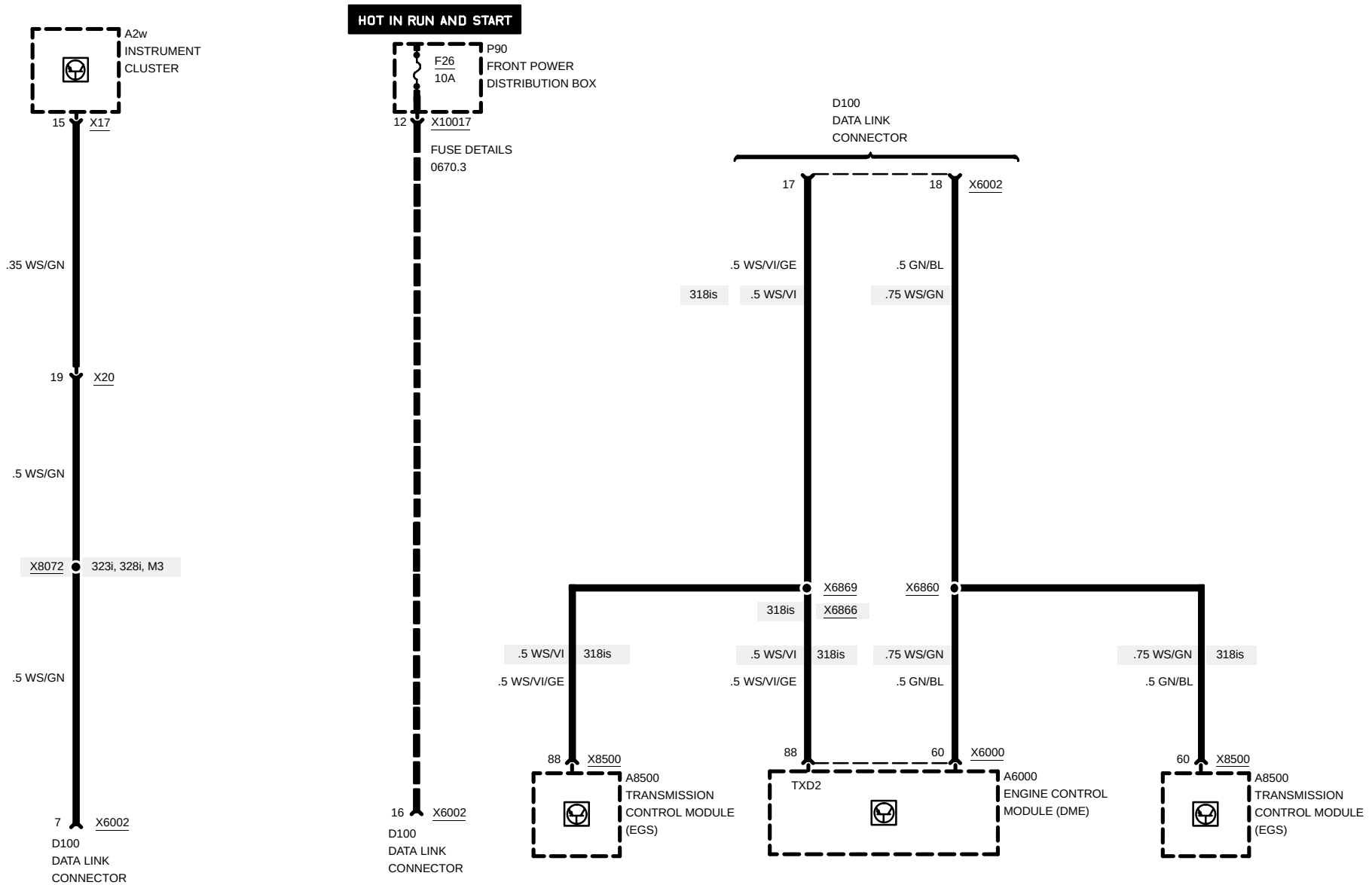
DATA LINK

DATA LINK CONNECTOR, PINS 12 AND 14



DATA LINK

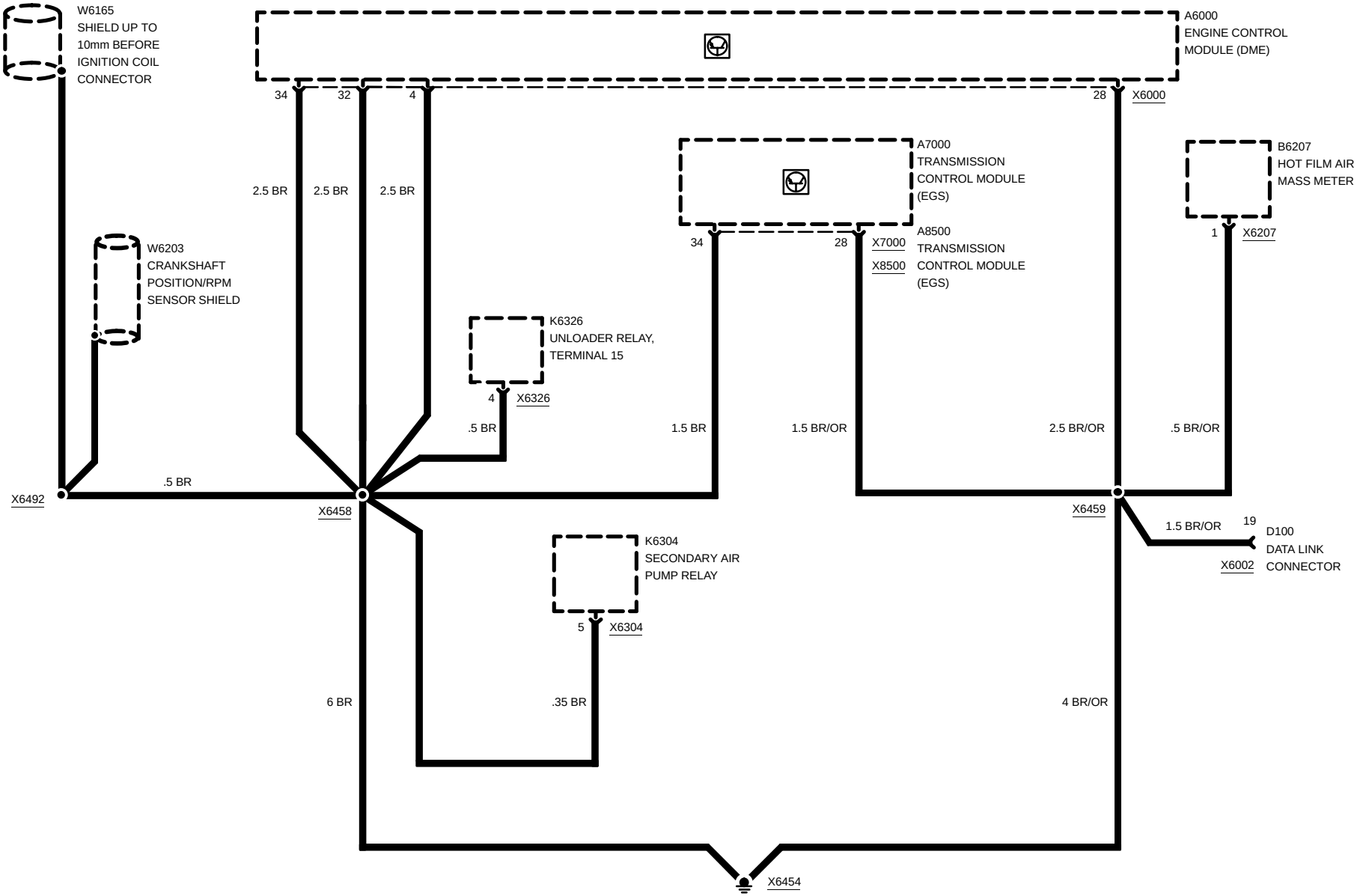
DATA LINK CONNECTOR, PINS 7, 16, 17, AND 18



DATA LINK

323i, 328i, M3

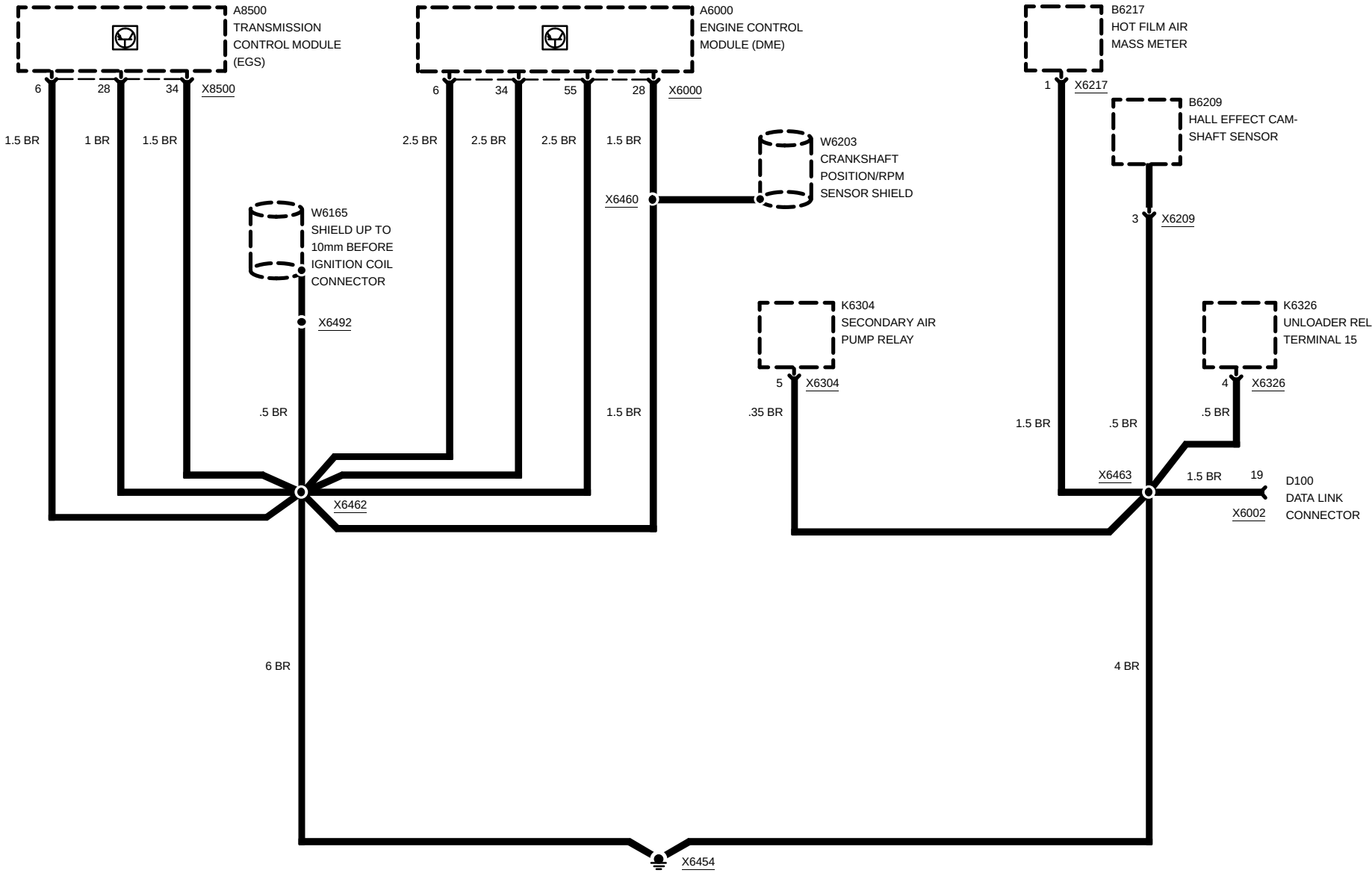
DATA LINK CONNECTOR, PIN 19



DATA LINK

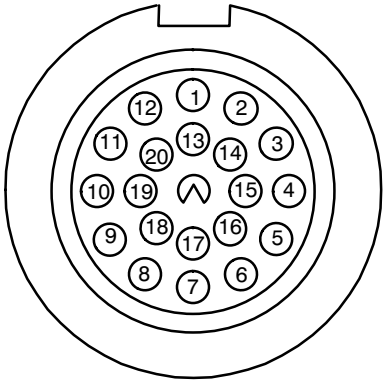
318is

DATA LINK CONNECTOR, PIN 19

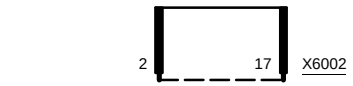


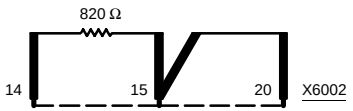
DATA LINK

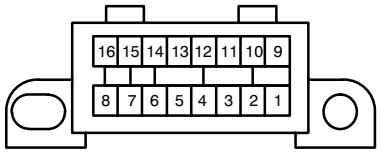
DATA LINK CONNECTOR (X6002)



BRIDGES IN CAP
OF D100 DATA LINK
CONNECTOR



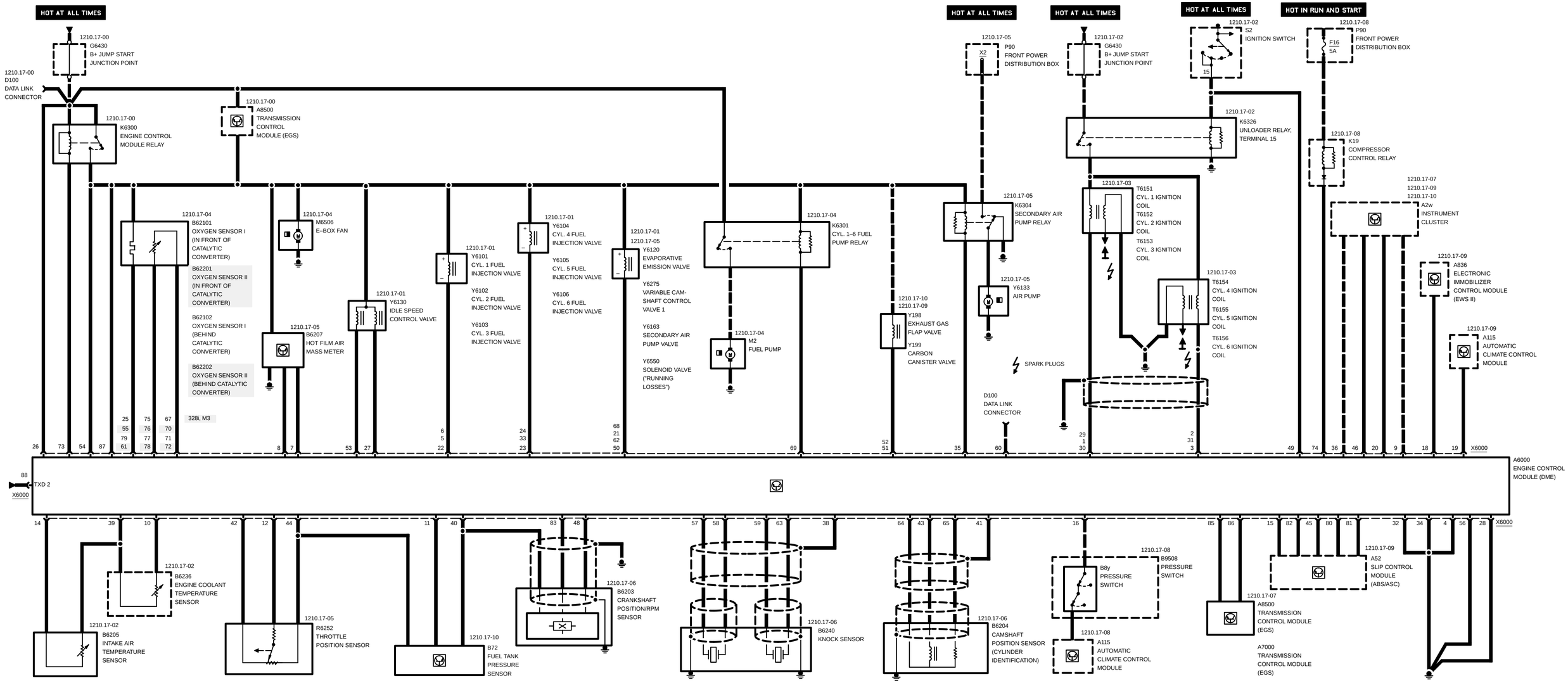


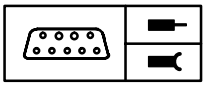


BRIDGE IN CAP OF
D110 OBD II
CONNECTOR



PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	ENGINE	SW
2	TXD2	DIAGNOSTIC DATA LINK	WS/VI/GE
3	–	NOT OCCUPIED	
4	R	VOLTAGE: HOT IN ACCY, RUN AND START	SW/VI/GE
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	–	NOT OCCUPIED	
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	–	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	TXD2	DIAGNOSTIC DATA LINK	WS/VI – WS/VI/GE
18	PGSP	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	WS/GN – GN/BL
19	31	GROUND	BR – BR/OR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI


HOT AT ALL TIMES
1210.17-00
G6430
B+ JUMP START
JUNCTION POINT
1210.17-00
D100
DATA LINK
CONNECTOR
1210.17-00
K6300
ENGINE CONTROL
MODULE RELAY
1210.17-00
A8500
TRANSMISSION
CONTROL
MODULE (EGS)
1210.17-04
B62101
OXYGEN SENSOR I
(IN FRONT OF
CATALYTIC
CONVERTER)
B62201
OXYGEN SENSOR II
(IN FRONT OF
CATALYTIC
CONVERTER)
B62102
OXYGEN SENSOR I
(BEHIND
CATALYTIC
CONVERTER)
B62202
OXYGEN SENSOR II
(BEHIND CATALYTIC
CONVERTER)
328i, M3
1210.17-04
M6506
E–BOX FAN
1210.17-05
B6207
HOT FILM AIR
MASS METER
1210.17-01
Y6130
IDLE SPEED
CONTROL VALVE
1210.17-01
Y6101
CYL. 1 FUEL
INJECTION VALVE
Y6102
CYL. 2 FUEL
INJECTION VALVE
Y6103
CYL. 3 FUEL
INJECTION VALVE
1210.17-01
Y6104
CYL. 4 FUEL
INJECTION VALVE
Y6105
CYL. 5 FUEL
INJECTION VALVE
Y6106
CYL. 6 FUEL
INJECTION VALVE
1210.17-01
1210.17-05
Y6120
EVAPORATIVE
EMISSION VALVE
Y6275
VARIABLE CAM-
SHAFT CONTROL
VALVE 1
Y6163
SECONDARY AIR
PUMP VALVE
Y6550
SOLENOID VALVE
("RUNNING
LOSSES")
1210.17-04
K6301
CYL. 1–6 FUEL
PUMP RELAY
1210.17-04
M2
FUEL PUMP
1210.17-10
1210.17-09
Y198
EXHAUST GAS
FLAP VALVE
Y199
CARBON
CANISTER VALVE
HOT AT ALL TIMES
1210.17-05
P90
FRONT POWER
DISTRIBUTION BOX
X2
1210.17-05
K6304
SECONDARY AIR
PUMP RELAY
1210.17-05
Y6133
AIR PUMP
SPARK PLUGS
D100
DATA LINK
CONNECTOR
HOT AT ALL TIMES
1210.17-02
G6430
B+ JUMP START
JUNCTION POINT
1210.17-02
K6326
UNLOADER RELAY,
TERMINAL 15
1210.17-03
T6151
CYL. 1 IGNITION
COIL
T6152
CYL. 2 IGNITION
COIL
T6153
CYL. 3 IGNITION
COIL
1210.17-03
T6154
CYL. 4 IGNITION
COIL
T6155
CYL. 5 IGNITION
COIL
T6156
CYL. 6 IGNITION
COIL
HOT AT ALL TIMES
1210.17-02
S2
IGNITION SWITCH
15
HOT IN RUN AND START
1210.17-08
P90
FRONT POWER
DISTRIBUTION BOX
F16
5A
1210.17-08
K19
COMPRESSOR
CONTROL RELAY
1210.17-07
1210.17-09
1210.17-10
A2w
INSTRUMENT
CLUSTER
1210.17-09
A836
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS II)
1210.17-09
A115
AUTOMATIC
CLIMATE CONTROL
MODULE
A6000
ENGINE CONTROL
MODULE (DME)
88
TXD 2
X6000
1210.17-02
B6236
ENGINE COOLANT
TEMPERATURE
SENSOR
1210.17-02
B6205
INTAKE AIR
TEMPERATURE
SENSOR
1210.17-05
R6252
THROTTLE
POSITION SENSOR
1210.17-10
B72
FUEL TANK
PRESSURE
SENSOR
1210.17-06
B6203
CRANKSHAFT
POSITION/RPM
SENSOR
1210.17-06
B6240
KNOCK SENSOR
1210.17-06
B6204
CAMSHAFT
POSITION SENSOR
(CYLINDER
IDENTIFICATION)
1210.17-08
B9508
PRESSURE
SWITCH
B8y
PRESSURE
SWITCH
1210.17-08
A115
AUTOMATIC
CLIMATE CONTROL
MODULE
1210.17-09
A52
SLIP CONTROL
MODULE
(ABS/ASC)
1210.17-07
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
A7000
TRANSMISSION
CONTROL MODULE
(EGS)

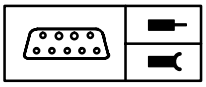


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
2	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
3	A	Cyl. 6 ignition coil control	Cyl. 6 ignition coil
4	M	Ground	Ground point
5	A	Cyl. 2 fuel injection valve control	Cyl. 2 fuel injection valve
6	A	Cyl. 1 fuel injection valve control	Cyl. 1 fuel injection valve
7	M	Ground	Hot wire air mass meter
8	E	Hot wire air mass meter	Hot wire air mass meter
9	E	TI-measurement signal (fuel consumption)	Instrument cluster
10	E	Engine coolant temperature	Engine coolant temperature sensor
11	E	Fuel tank pressure	Fuel tank pressure sensor
12	E	Throttle position signal	Throttle position sensor
13		Not used	
14	E	Intake air temperature	Intake air temperature sensor
15	E	Speed signal right rear	ABS/ASC control module
16	E	Activate A/C	Pressure switch
17		Not used	
18	E	Drive-away protection signal (code)	Electronic immobilizer control module (EWS II)
19	E	A/C-ON-signal	Air conditioning operating unit
20	A	“Check engine” indicator control	Instrument cluster
21	A	Camshaft control	Variable camshaft control valve
22	A	Cyl. 3 fuel injection valve control	Cyl. 3 fuel injection valve
23	A	Cyl. 6 fuel injection valve control	Cyl. 6 fuel injection valve
24	A	Cyl. 4 fuel injection valve control	Cyl. 4 fuel injection valve
25	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
26	E	Battery voltage	B+ jump start junction point
27	A	Activate valve	Idle speed control valve
28	M	Ground	Ground point
29	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil

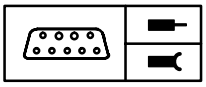
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
30	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
31	A	Cyl. 5 ignition coil control	Cyl. 5 ignition coil
32	M	Ground	Ground point
33	A	Cyl. 5 fuel injection valve control	Cyl. 5 fuel injection valve
34	M	Ground	Ground point
35	A	Activate relay	Secondary air pump relay
36	A	Crankshaft RPM speed signal TD	Instrument cluster
37		Not used	
38	M	Ground	Shield knock sensor
39	M	Ground	Temperature sensors
40	M	Ground	Crankshaft position/RPM sensor Fuel tank pressure sensor
41	M	Ground	Shield camshaft position sensor
42	M	Ground	Throttle position sensor
43	E	Camshaft position	Camshaft position sensor
44	A	Voltage supply	Throttle position sensor Fuel tank pressure sensor
45	A	Throttle position signal	ABS/ASC control module
46	E	TI-measurement signal (fuel consumption)	Instrument cluster
47		Not used	
48	A	Voltage supply	Crankshaft position/RPM sensor
49	E	Terminal 15	Ignition switch
50	A	Running losses	Solenoid valve
51	A	Activate valve	Carbon canister valve
52	A	Signal exhaust flap	Exhaust gas flap valve
53	A	Activate valve	Idle speed controle valve
54	E	Battery voltage, terminal 87	Engine control module relay
55	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
56	M	Ground	Ground point
57	E	Cyl. 1-3 knock sensor	Knock sensor
58	E	Cyl. 1-3 knock sensor	Knock sensor
59	E	Cyl. 4-6 knock sensor	Knock sensor

E = Input, A = Output, M = Ground



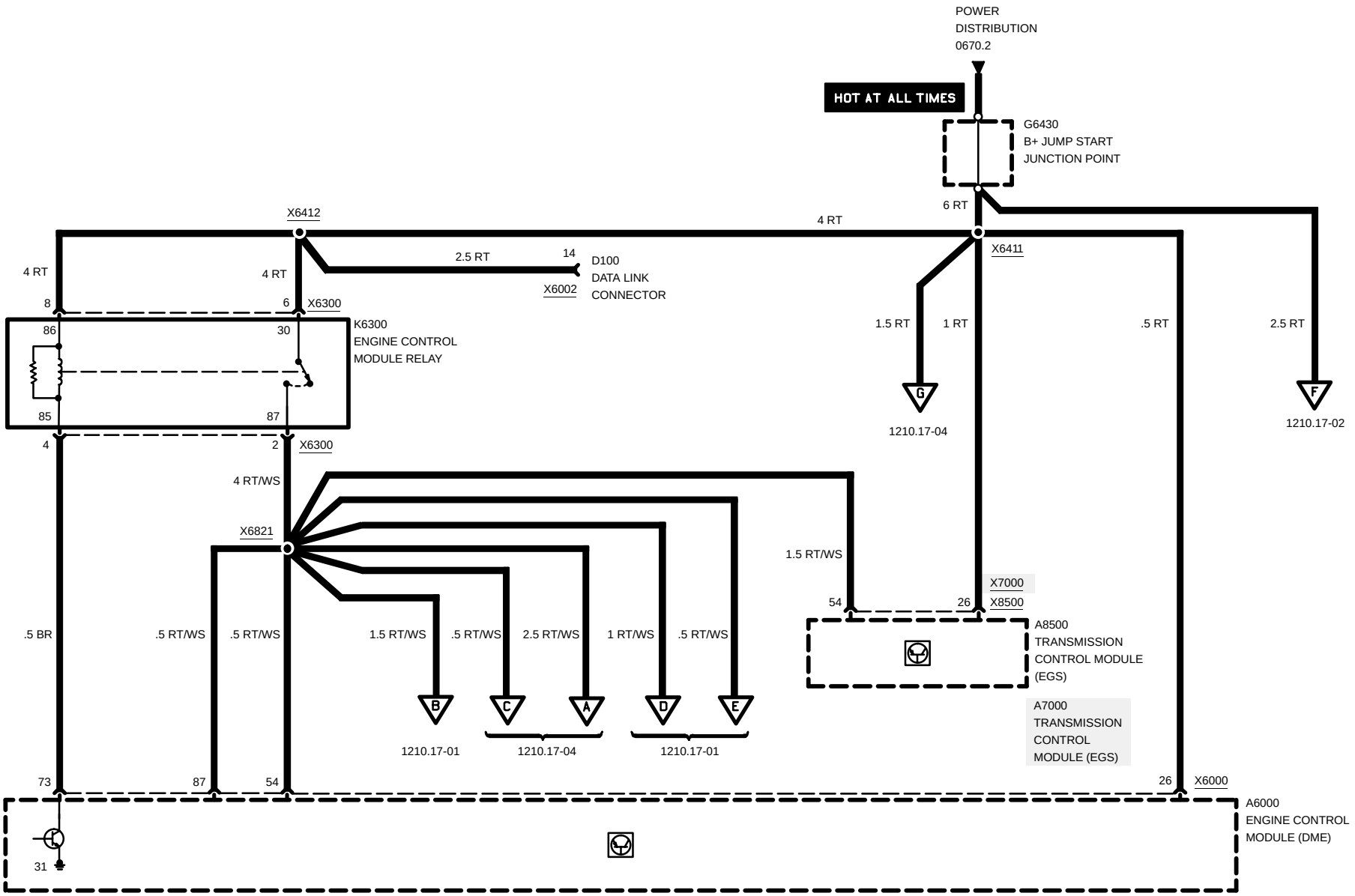
Pin Assignments

Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
62	A	Activate valve	Secondary air pump value
63	E	Cyl. 4-6 knock sensor	Knock sensor
64	M	Ground	Camshaft position sensor
65	E	Camshaft position	Camshaft position sensor
66		Not used	
67	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
68	A	Activate valve	Evaporative emission valve
69	A	Activate relay	Fuel pump relay
70	M	Oxygen sensor signal ground	Oxygen sensor (in front of catalytic converter)
71	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
72	M	Oxygen sensor signal ground	Oxygen sensor (behind catalytic converter)
73	E	Activate relay	Engine control module relay
74	A	Activate A/C compressor	Compressor control relay
75	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
76	E	Sensor signal	Oxygen sensor (in front of catalytic converter)
77	E	Sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Sensor signal	Oxygen sensor (behind catalytic converter)
79	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
80	A	ASC signal ZA	Slip control module (ABS/ASC)
81	A	ASC signal ZWV	Slip control module (ABS/ASC)
82	A	ASC signal MSR	Slip control module (ABS/ASC)
83	E	Sensor signal	Crankshaft position/RPM sensor
84		Not used	
85	E/A	CAN-LOW	Transmission control module (EGS)
86	E/A	CAN-HIGH	Transmission control module (EGS)
87	E	Battery voltage, terminal 87	Engine control module relay
88	E/A	TxD diagnosis data link	Data link connector

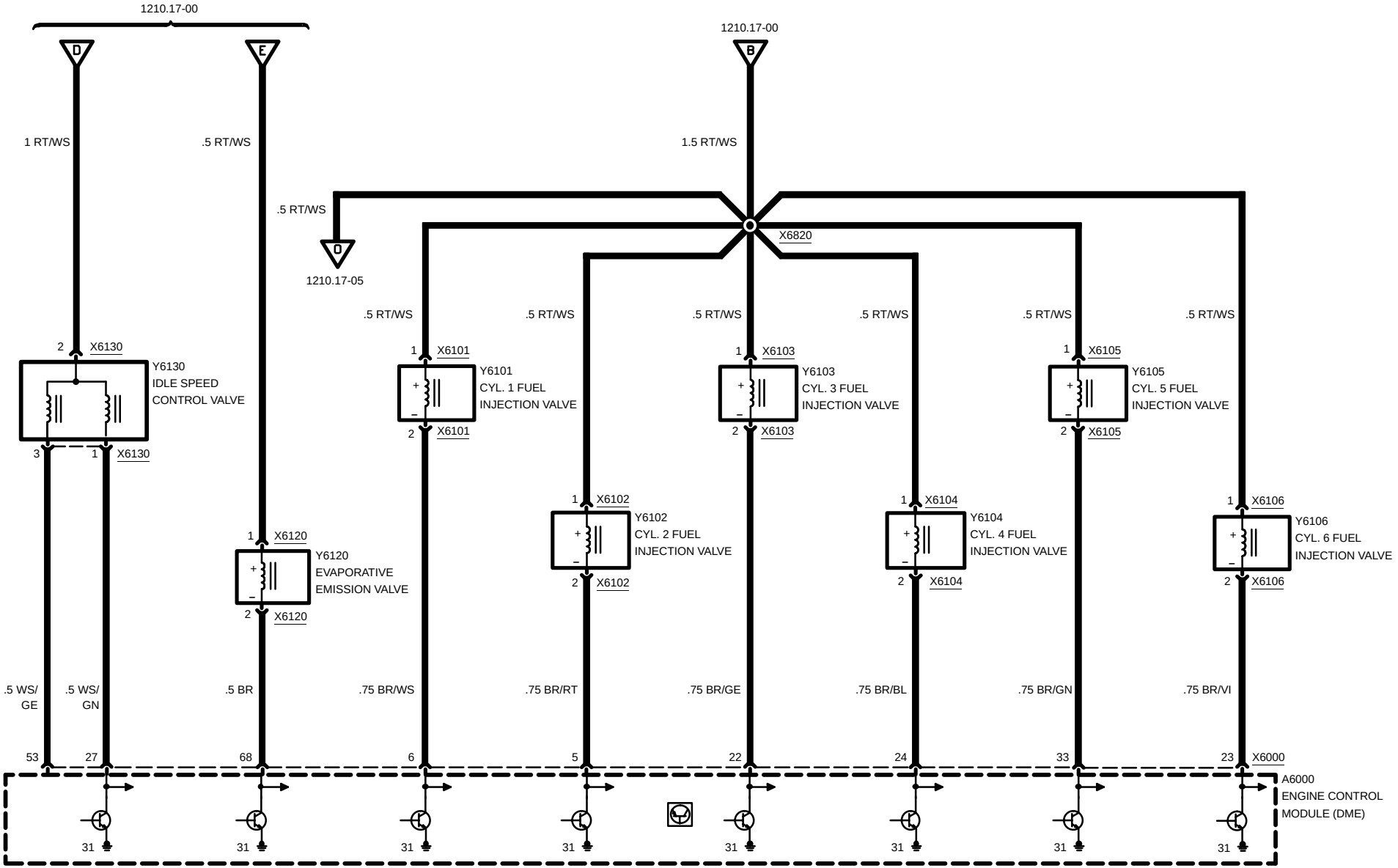
E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

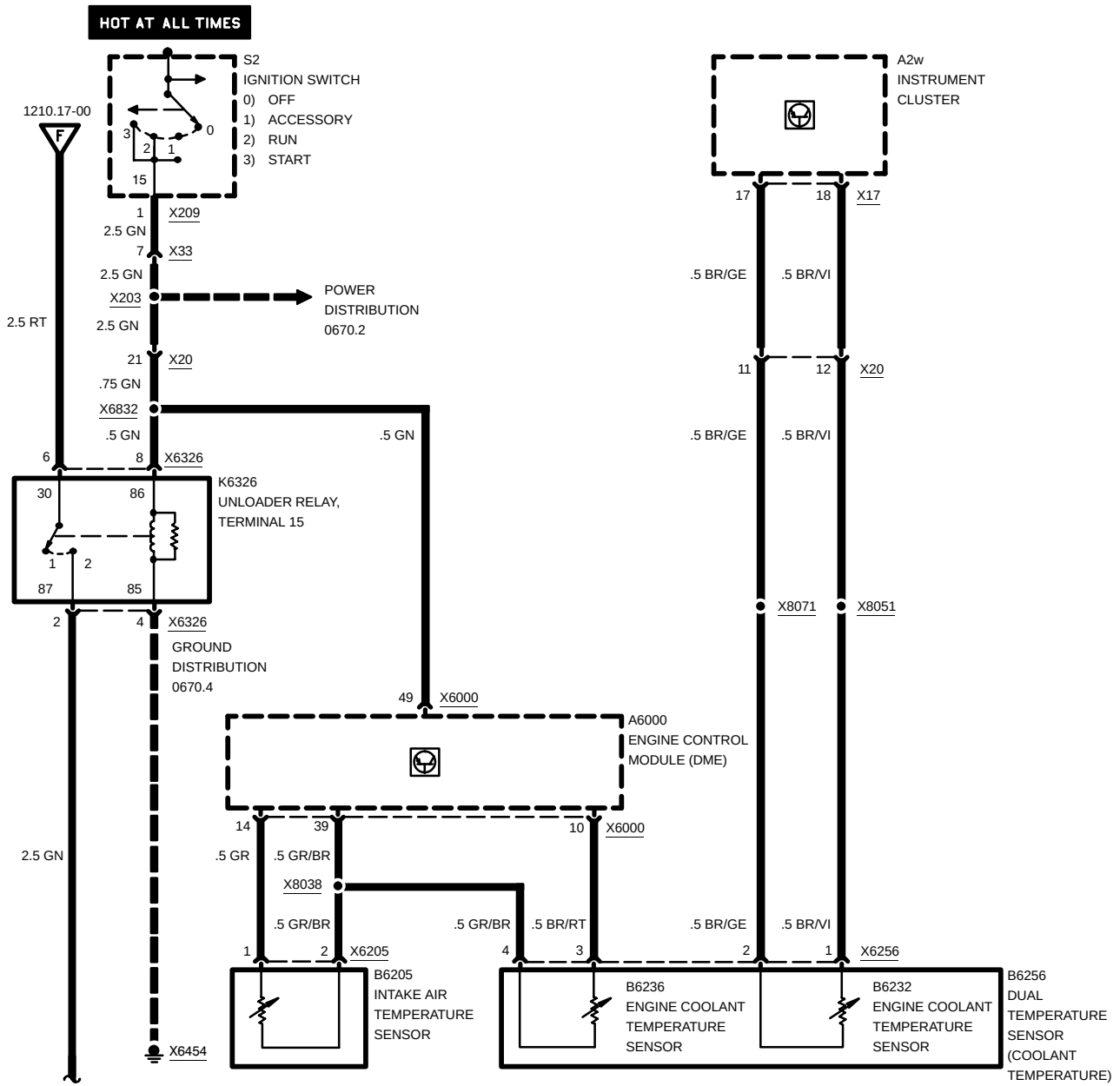
POWER

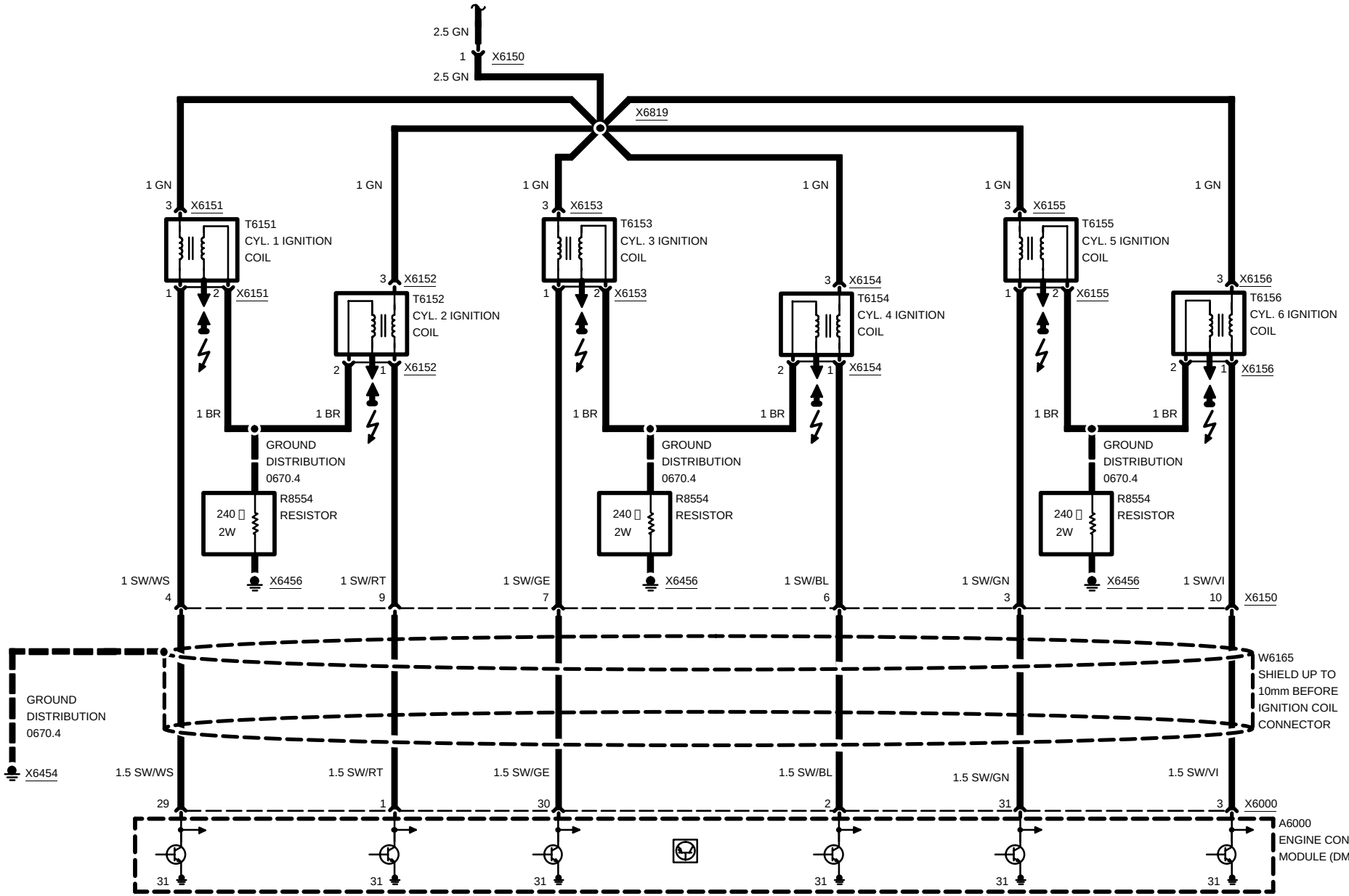


ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

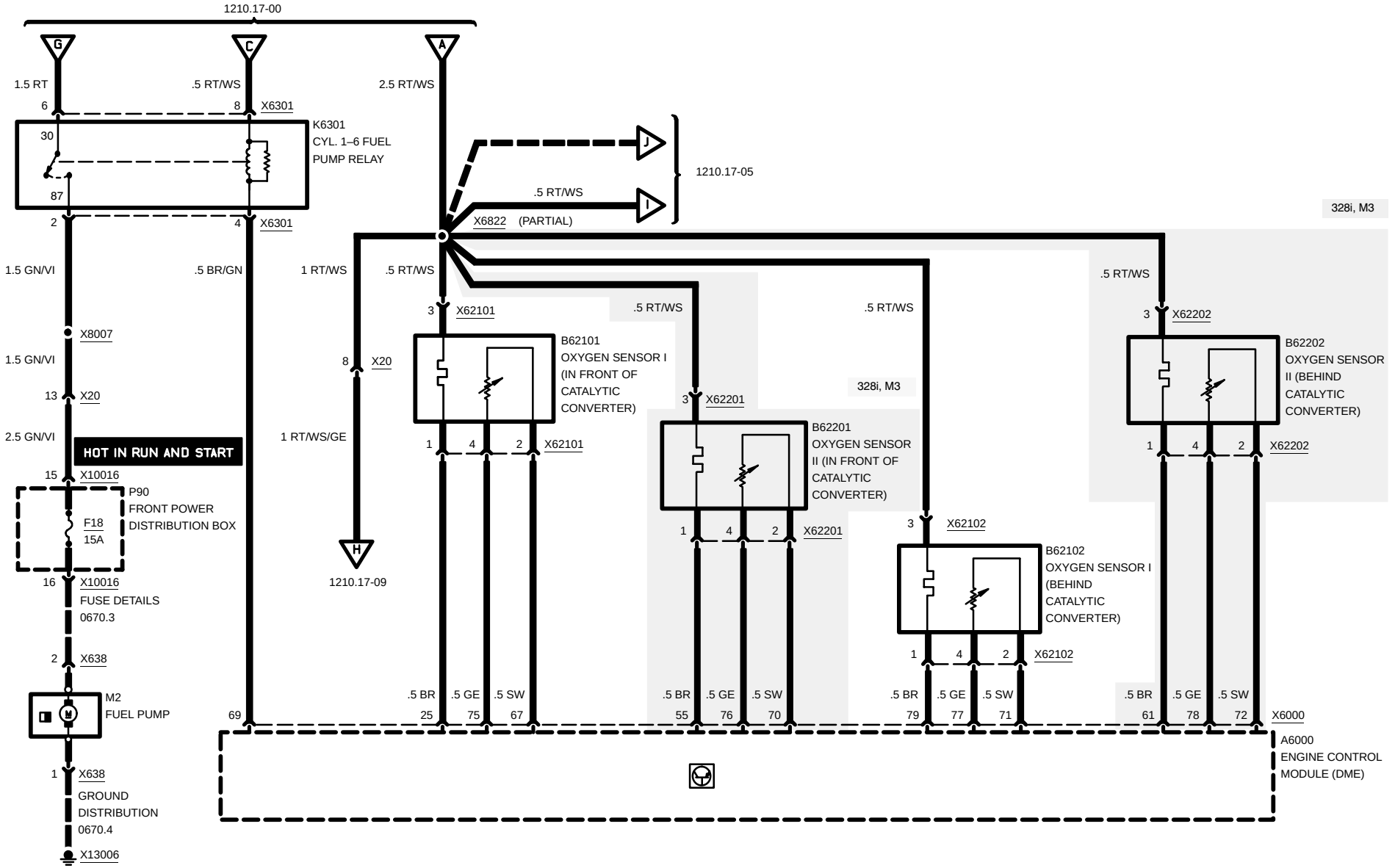


ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

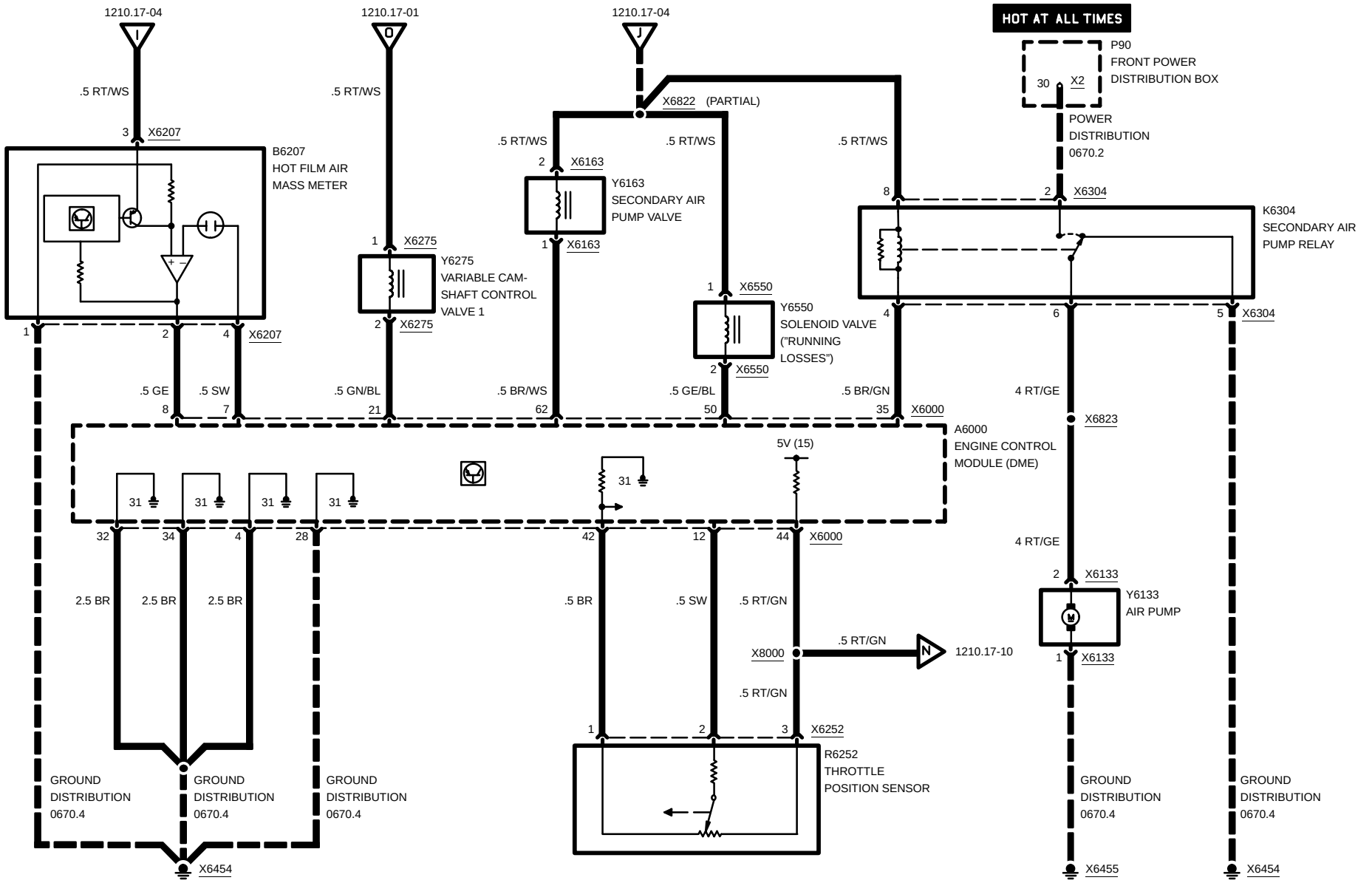



2.5 GN
1
X6150
2.5 GN
X6819
1 GN
3
X6151
T6151
CYL. 1 IGNITION
COIL
1
2
X6151
1 BR
GROUND
DISTRIBUTION
0670.4
240 Ω
2W
R8554
RESISTOR
X6456
1 SW/WS
4
X6152
T6152
CYL. 2 IGNITION
COIL
2
1
X6152
1 BR
1 SW/RT
9
X6153
T6153
CYL. 3 IGNITION
COIL
X6153
1 BR
1 SW/GE
7
X6154
T6154
CYL. 4 IGNITION
COIL
X6154
1 BR
1 SW/BL
6
X6155
T6155
CYL. 5 IGNITION
COIL
X6155
1 BR
1 SW/GN
3
X6156
T6156
CYL. 6 IGNITION
COIL
X6156
1 BR
1 SW/VI
10
X6150
W6165
SHIELD UP TO
10mm BEFORE
IGNITION COIL
CONNECTOR
GROUND
DISTRIBUTION
0670.4
X6454
1.5 SW/WS
29
1.5 SW/RT
1
1.5 SW/GE
30
1.5 SW/BL
2
1.5 SW/GN
31
1.5 SW/VI
3
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31

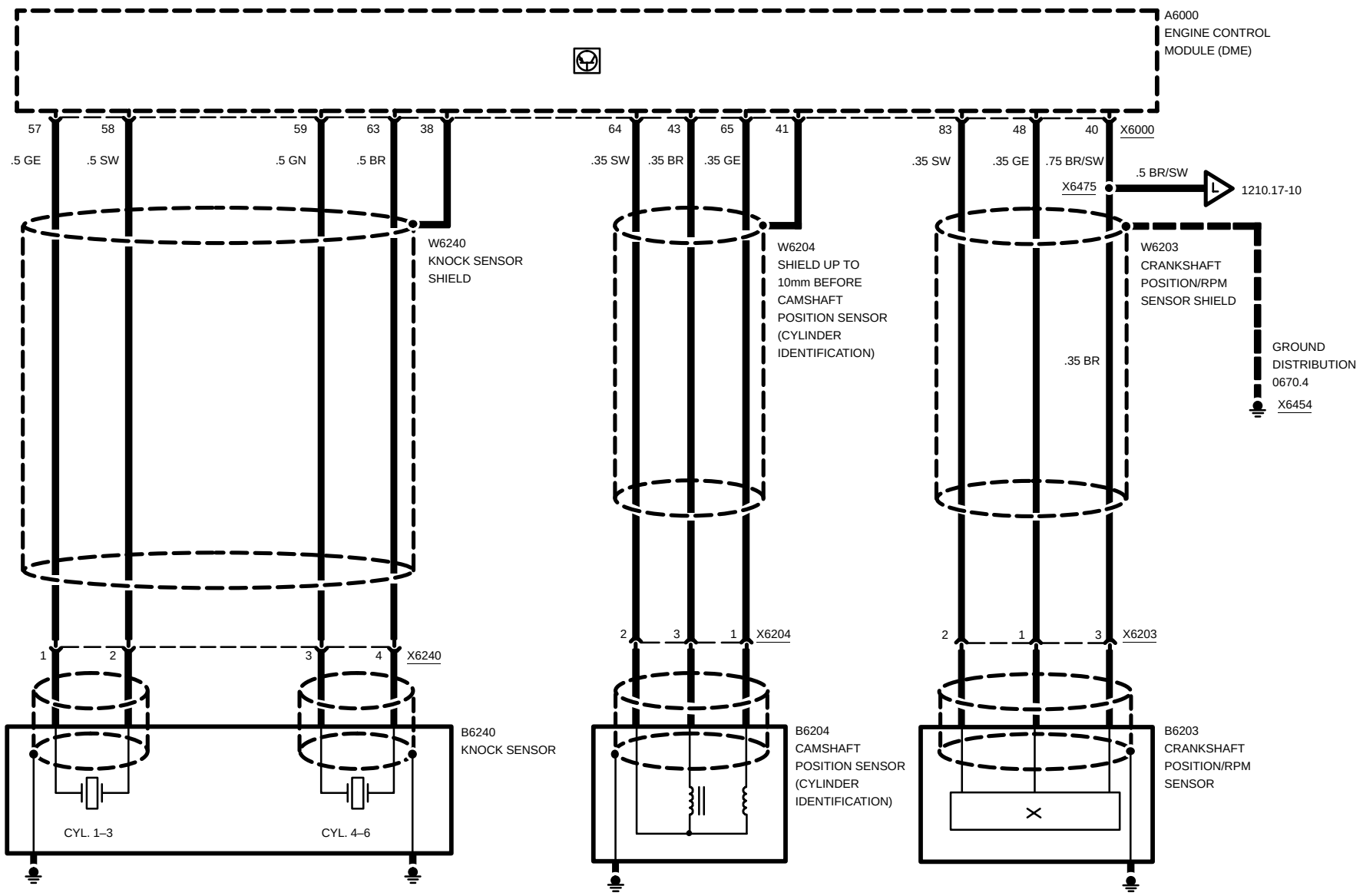
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



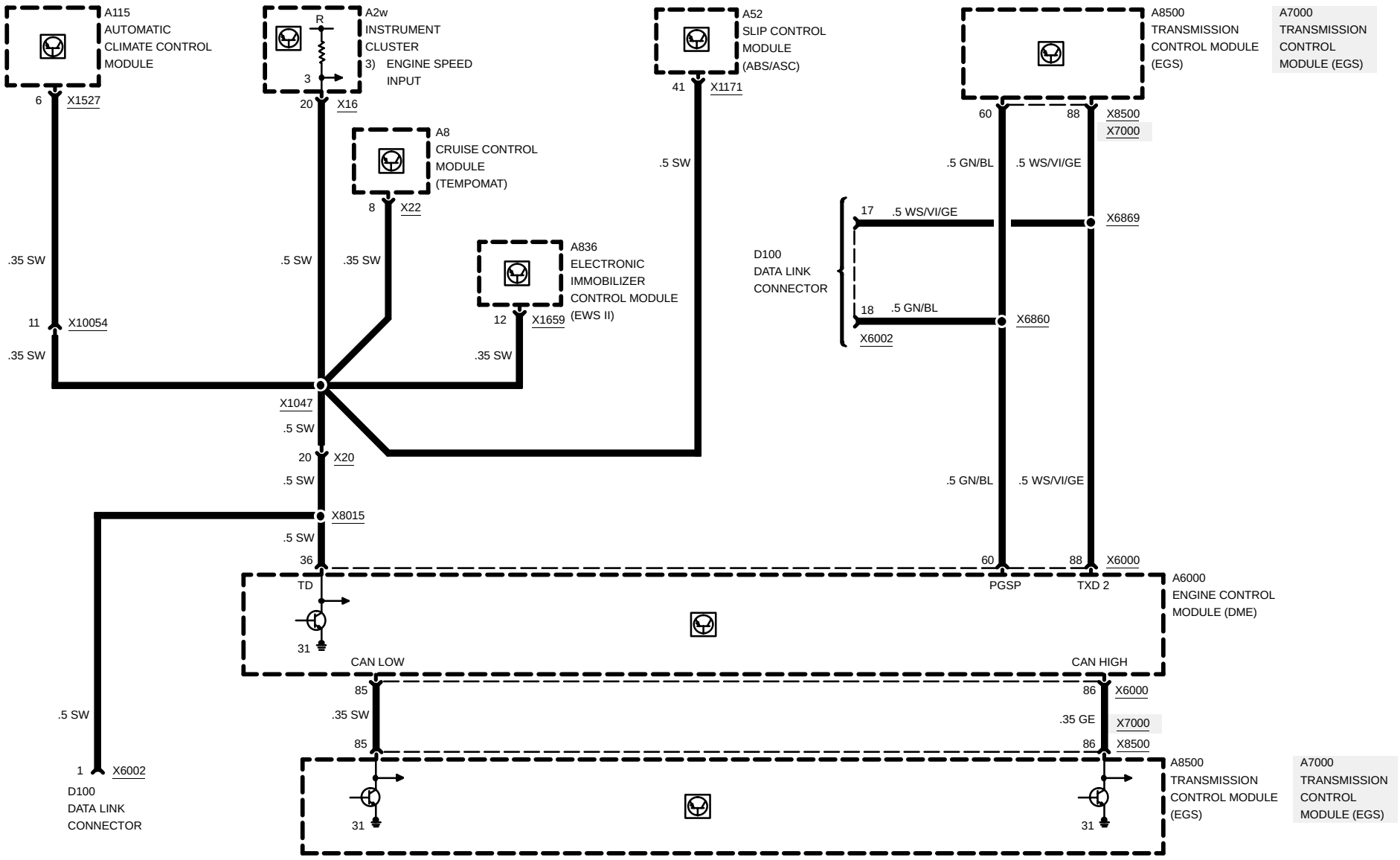
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



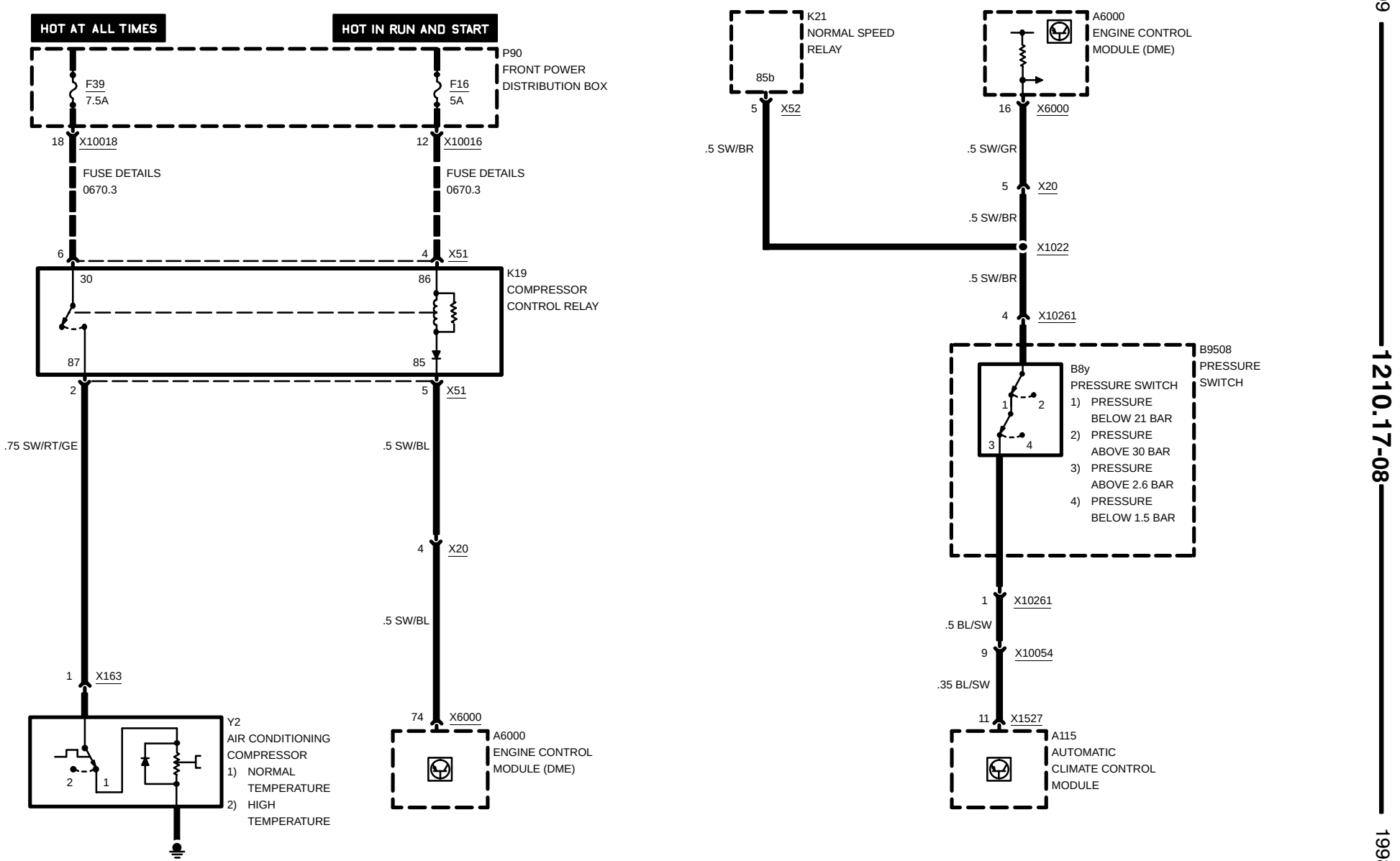
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



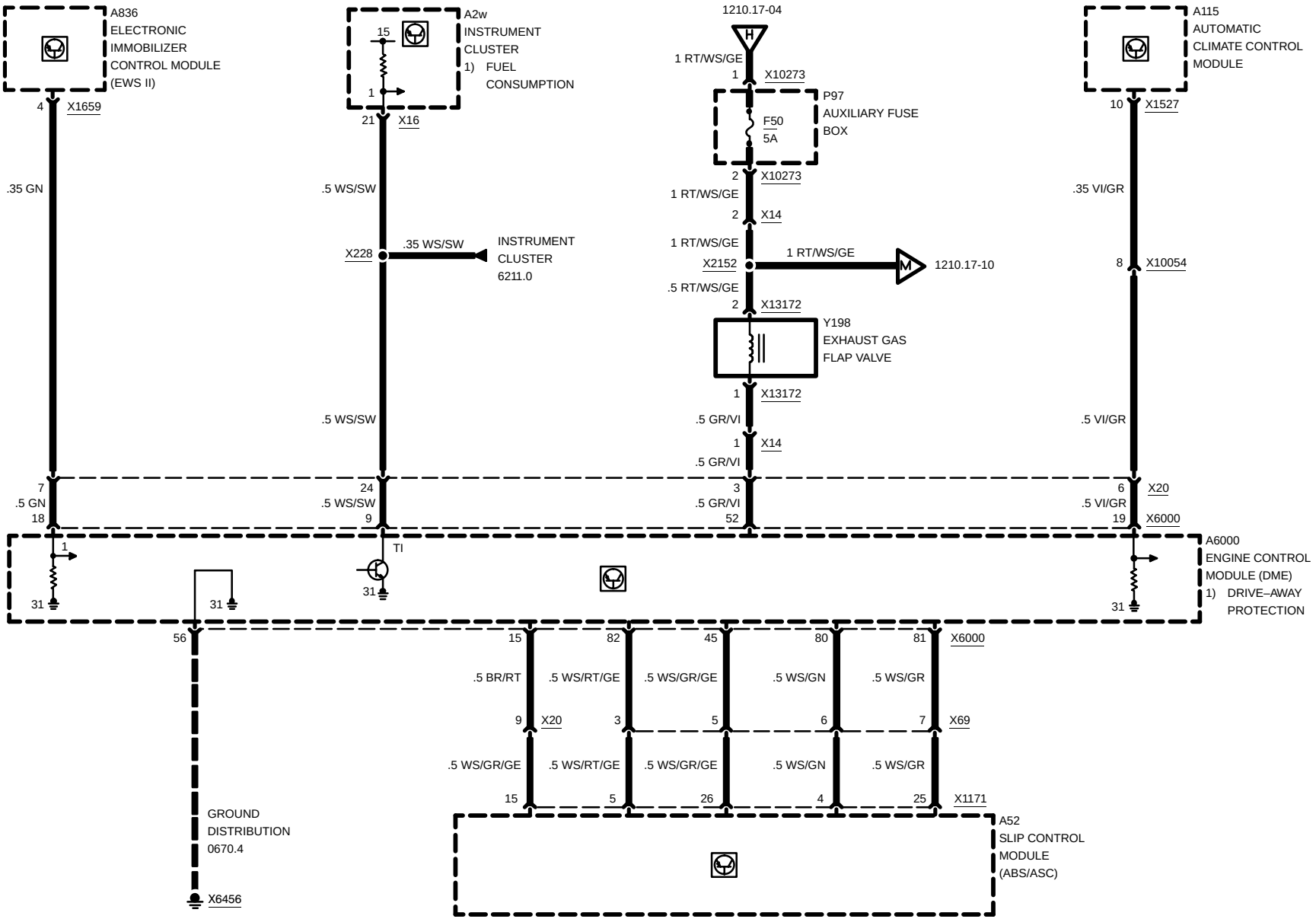
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)



ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

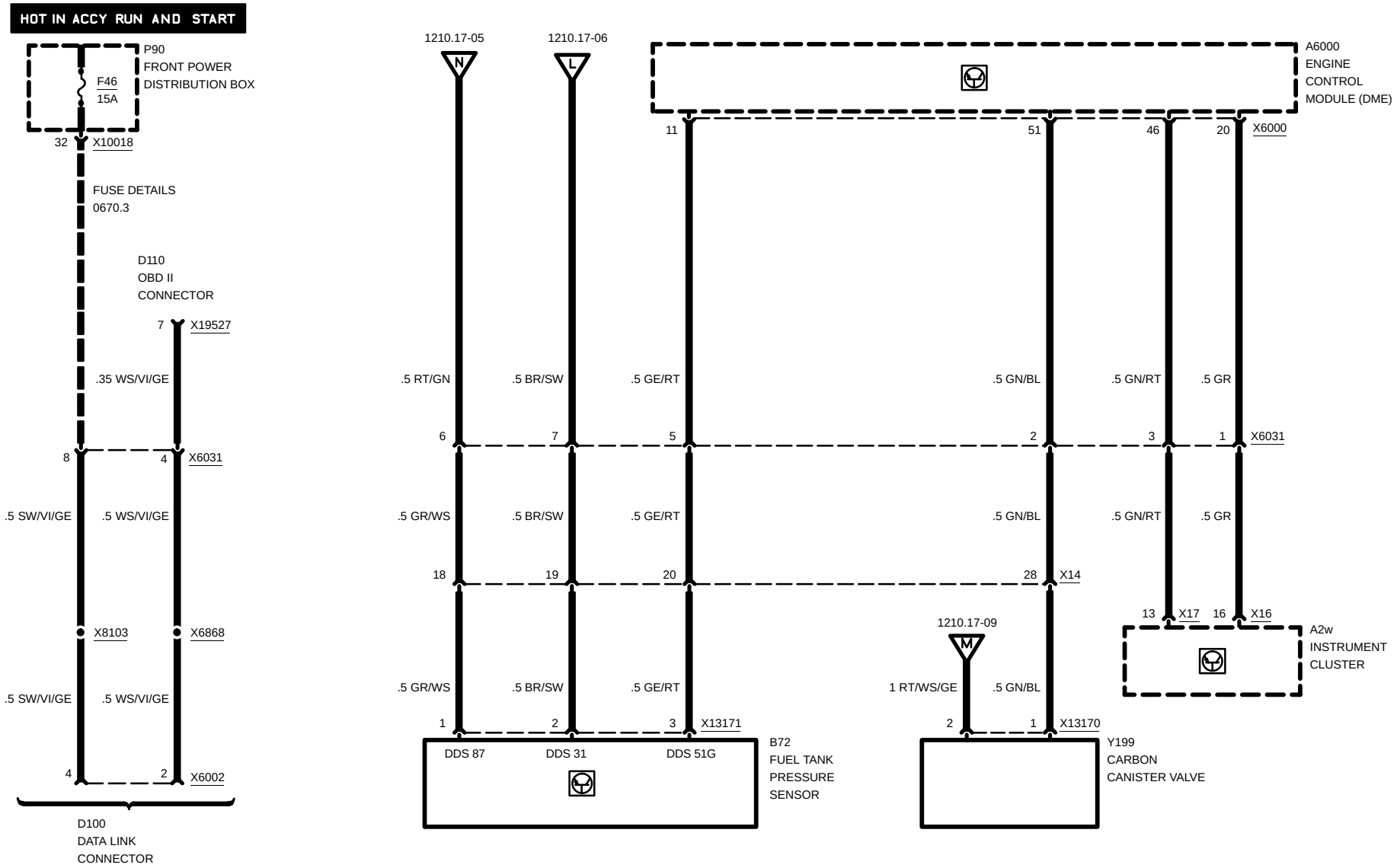


ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

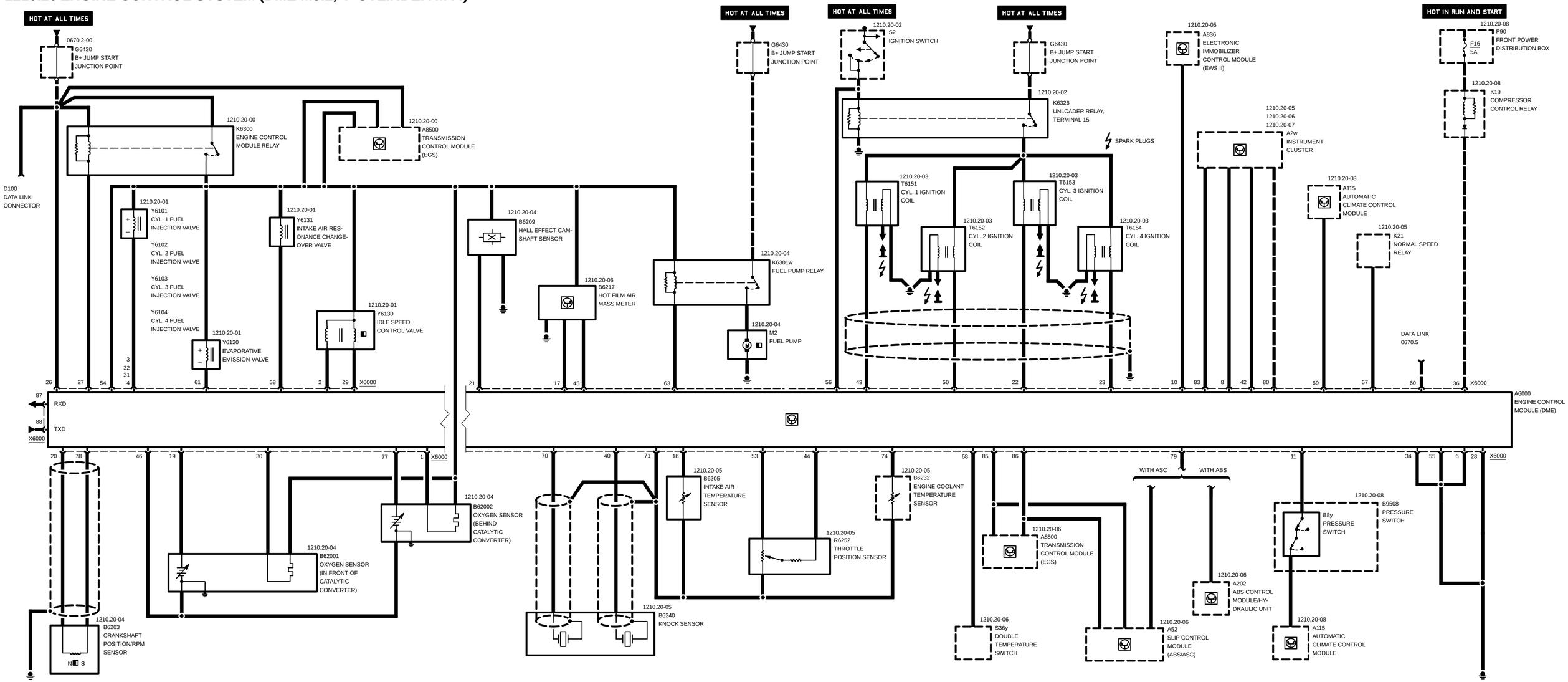


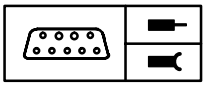
ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)

OBD II DIAGNOSIS



1210.20 ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



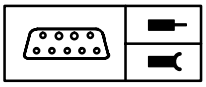


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
89	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
90	A	Activate valve	Idle speed control valve
91	A	Activate valve	Cyl. 1 fuel injection valve
92	A	Activate valve	Cyl. 4 fuel injection valve
93		Not used	
94	M	Ground, fuel injection valve output stages	Ground point
95		Not used	
96	A	“Check engine” indicator control	Instrument cluster
97		Not used	
98	E	Drive-away protection signal	Electronic immobilizer control module (EWS II)
99	E	Activate A/C	Pressure switch
100		Not used	
101		Not used	
102		Not used	
103		Not used	
104	E	Intake air temperature	Intake air temperature sensor
105	M	Ground	Hot film air mass meter
106		Not used	
107	E	Oxygen sensor signal	Oxygen sensor (in front of catalytic converter)
108	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
109	E	Camshaft position	Hall effect camshaft sensor
110	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
111	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
112		Not used	
113		Not used	
114	E	Battery voltage	B+ jump start junction point
115	A	Engine control module relay control	Engine control module relay, terminal 85
116	M	Ground for electronics and shielding of sensors	Ground point

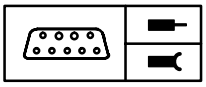
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
117	A	Idle speed control valve control	Idle speed control valve
118	M	Oxygen sensor heating ground	Oxygen sensor (in front of catalytic converter)
119	A	Activate valve	Cyl. 3 fuel injection valve
120	A	Activate valve	Cyl. 2 fuel injection valve
121		Not used	
122	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
123		Not used	
124	A	A/C compressor cut-out	Compressor control relay
125		Not used	
126		Not used	
127		Not used	
128	E	Cyl. 3-4 knock sensor	Knock sensor
129		Not used	
130	E	TI-measurement signal (fuel consumption)	Instrument cluster
131		Not used	
132	E	Throttle position	Throttle position sensor
133	E	Signal input	Hot film air mass meter
134	M	Sensor ground	Oxygen sensors
135		Not used	
136		Not used	
137	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
138	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
139		Not used	
140		Not used	
141	A	Component supply (+)	Throttle position sensor
142	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
143	M	Ground, ignition	Ground point
144	E	Ignition switch, terminal 15	Ignition switch, terminal 15
145	A	Activate auxiliary fan	Normal speed relay
146	A	Activate valve	Intake air resonance changeover valve

E = Input, A = Output, M = Ground



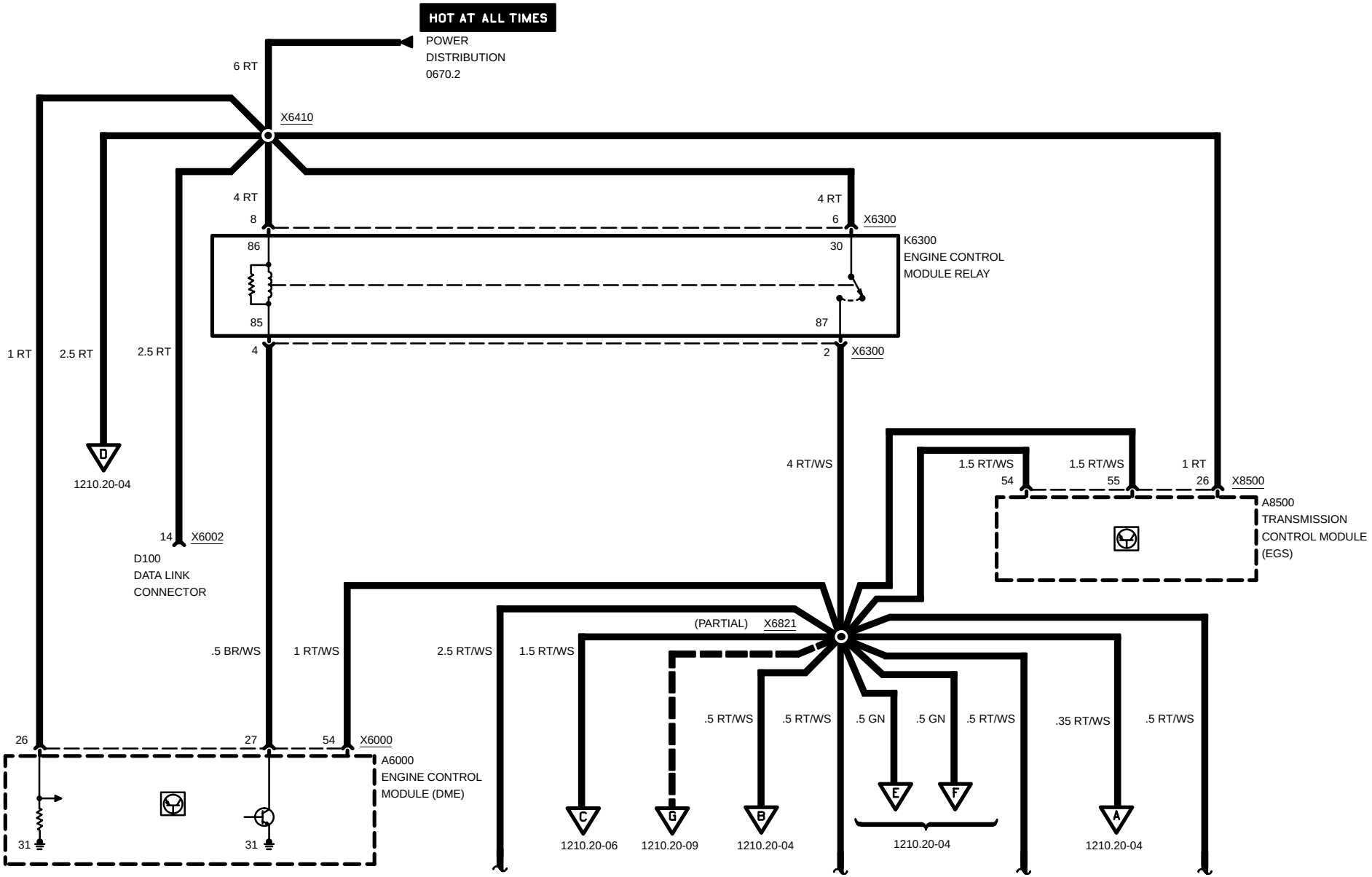
Pin Assignments

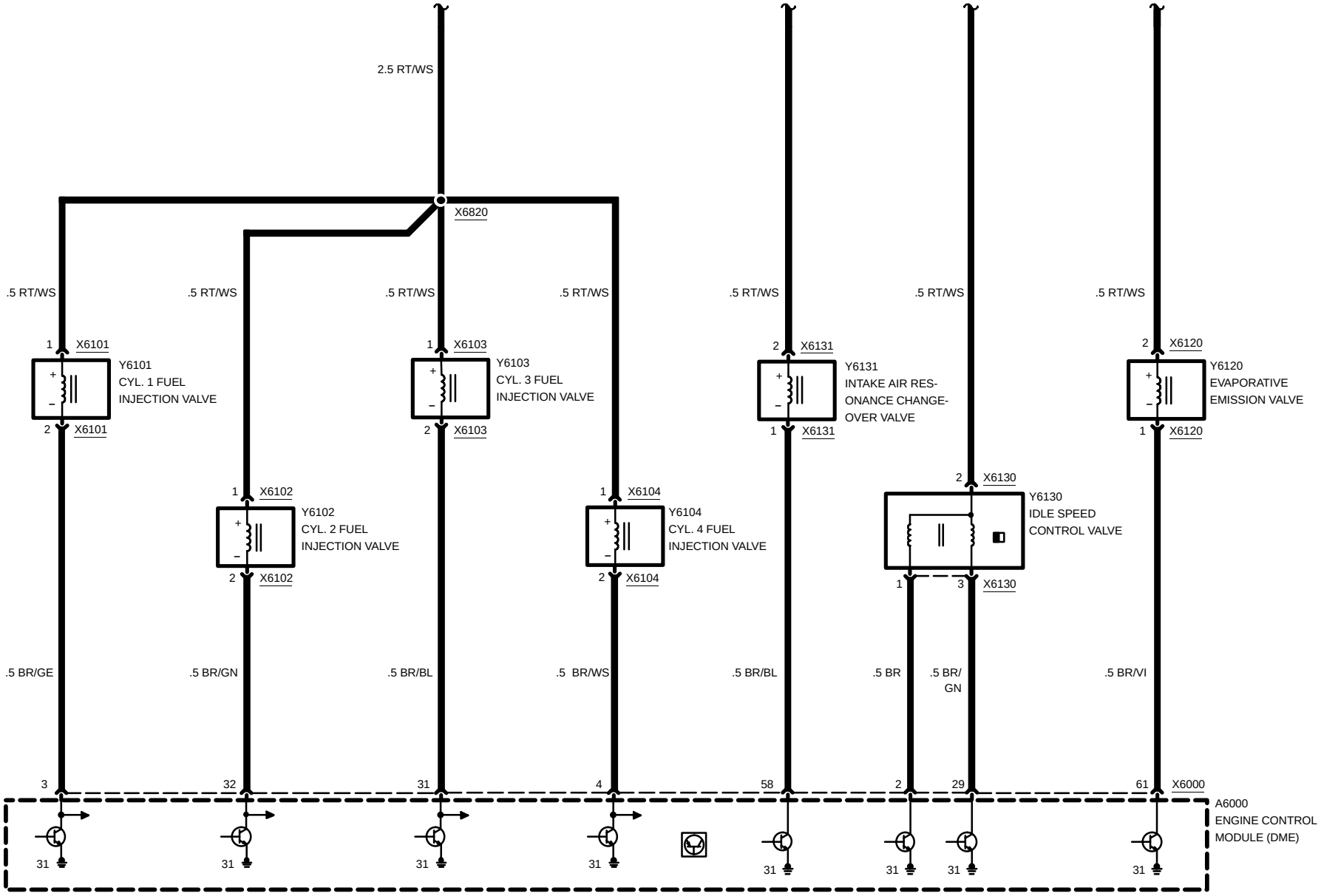
Pin	Type	Description/Function	Connection
147		Not used	
148	E	Programming voltage	Data link connector
149	A	Activate valve	Evaporation emission valve
150		Not used	
151	A	Activate relay	Fuel pump relay
152	A	Secondary air pump valve control	Secondary air pump valve
153	A	Carbon canister valve control	Carbon canister valve
154	A	Fuel changeover valve	Fuel changeover valve
155		Not used	
156	E	Signal above 80 °C	Double temperature switch
157	E	A/C-ON-signal	Air conditioning operating unit
158	E	Cyl 1-2 knock sensor	Knock sensor
159	M	Ground for sensors	Temperature-/knock-/throttle position sensors
160	E	Fuel tank pressure	Fuel tank pressure sensor
161		Not used	
162	E	Temperature signal	Engine coolant temperature sensor
163		Not used	
164		Not used	
165	E	Oxygen sensor signal	Oxygen sensor (behind catalytic converter)
166	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
167	E	Speed signal right rear	ABS/ASC control module
168	A	Crankshaft RPM speed signal TD	Instrument cluster
169		Not used	
170		Not used	
171	E	Vehicle speed signal	Instrument cluster
172		Not used	
173	E/A	CAN-LOW	EGS/ASC control module
174	E/A	CAN-HIGH	EGS/ASC control module
175	A	RxD diagnosis data line	Data link connector
176	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

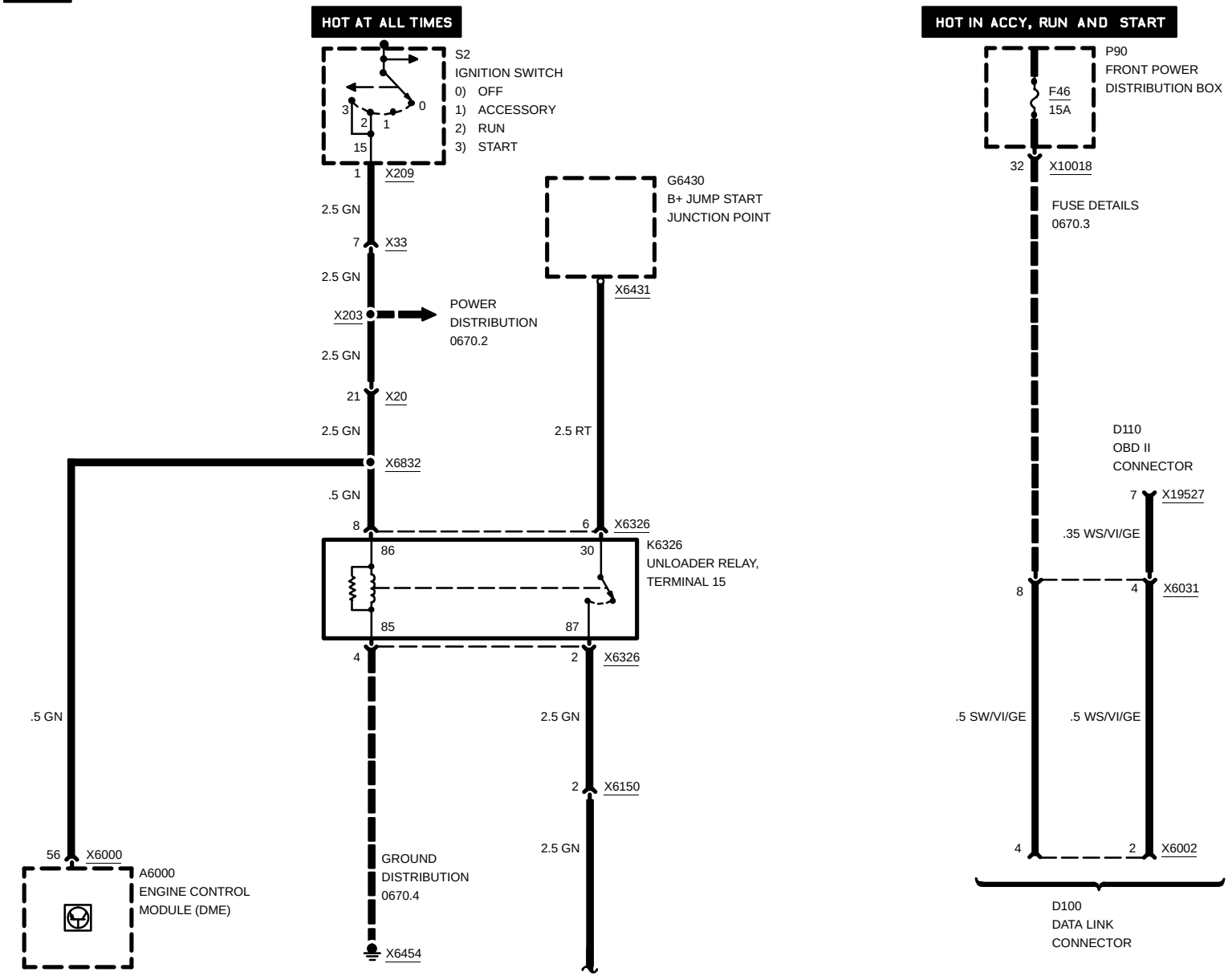
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

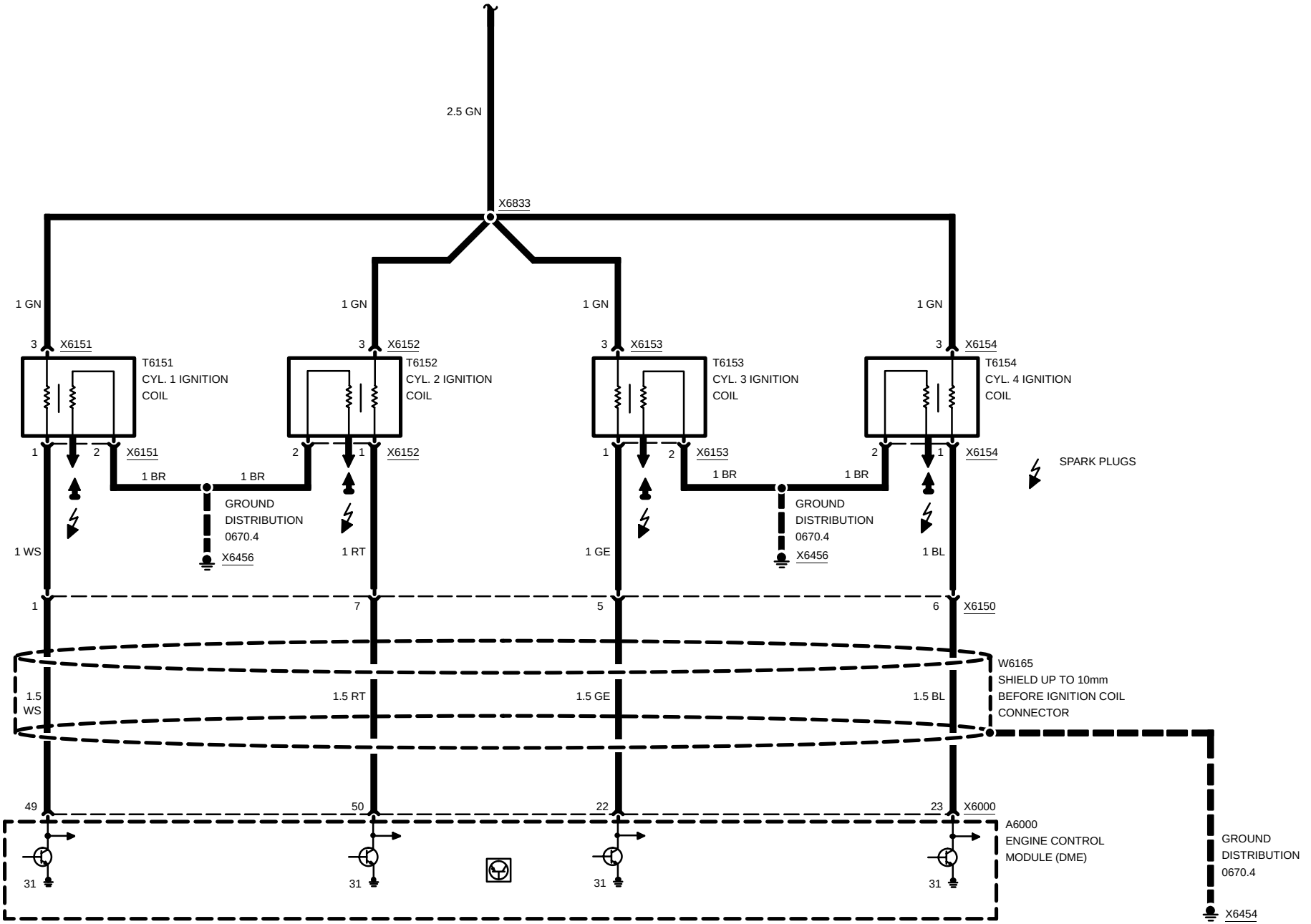
POWER, FUEL INJECTION VALVES




2.5 RT/WS
X6820
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
.5 RT/WS
1
X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2
X6101
1
X6103
Y6103
CYL. 3 FUEL
INJECTION VALVE
2
X6103
2
X6131
Y6131
INTAKE AIR RES-
ONANCE CHANGE-
OVER VALVE
1
X6131
2
X6120
Y6120
EVAPORATIVE
EMISSION VALVE
1
X6120
1
X6102
Y6102
CYL. 2 FUEL
INJECTION VALVE
2
X6102
1
X6104
Y6104
CYL. 4 FUEL
INJECTION VALVE
2
X6104
2
X6130
Y6130
IDLE SPEED
CONTROL VALVE
1
3
X6130
.5 BR/GE
.5 BR/GN
.5 BR/BL
.5 BR/WS
.5 BR/BL
.5 BR
.5 BR/
GN
.5 BR/VI
3
32
31
4
58
2
29
61
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
31
31
31
31
31
31
31

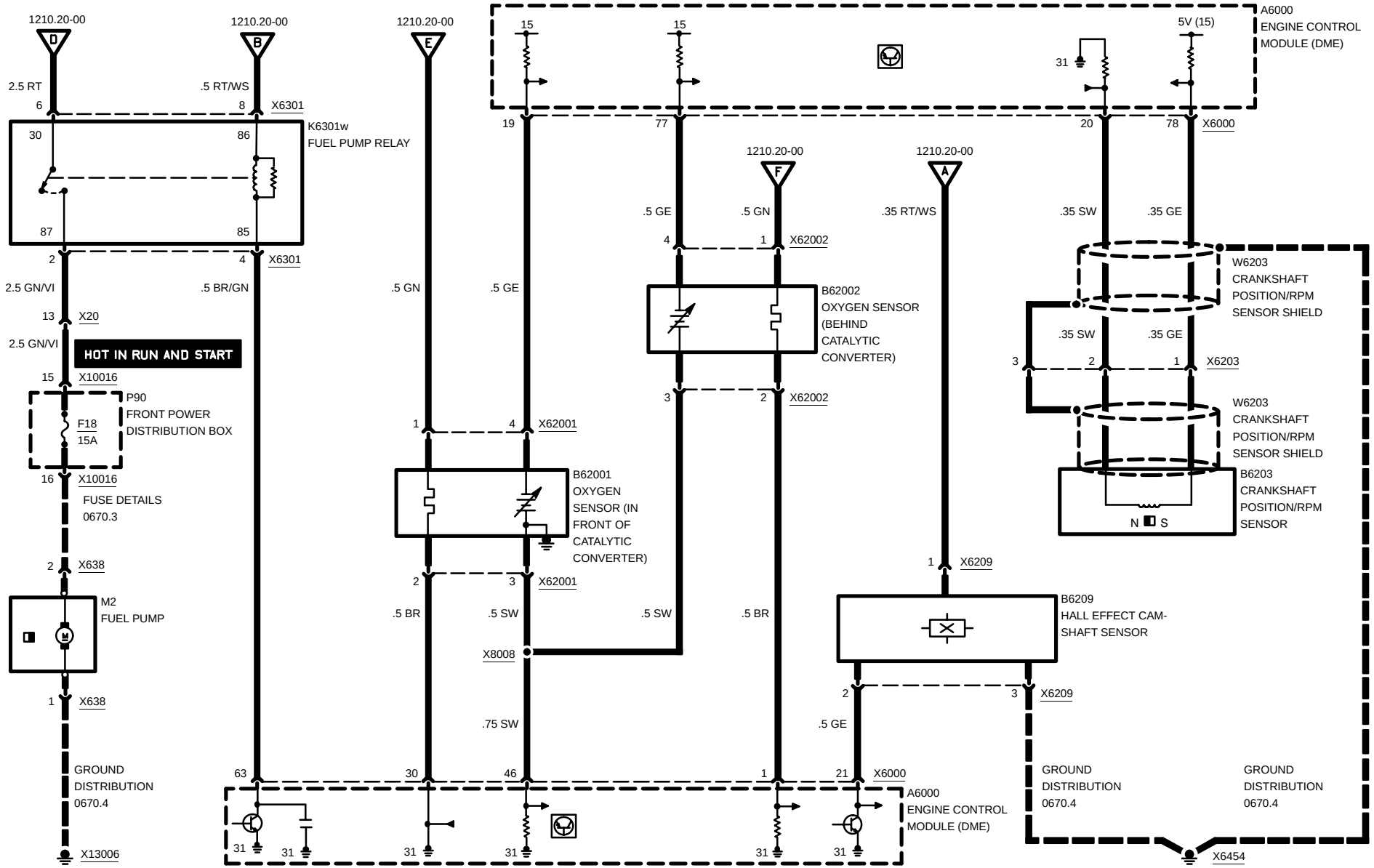
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



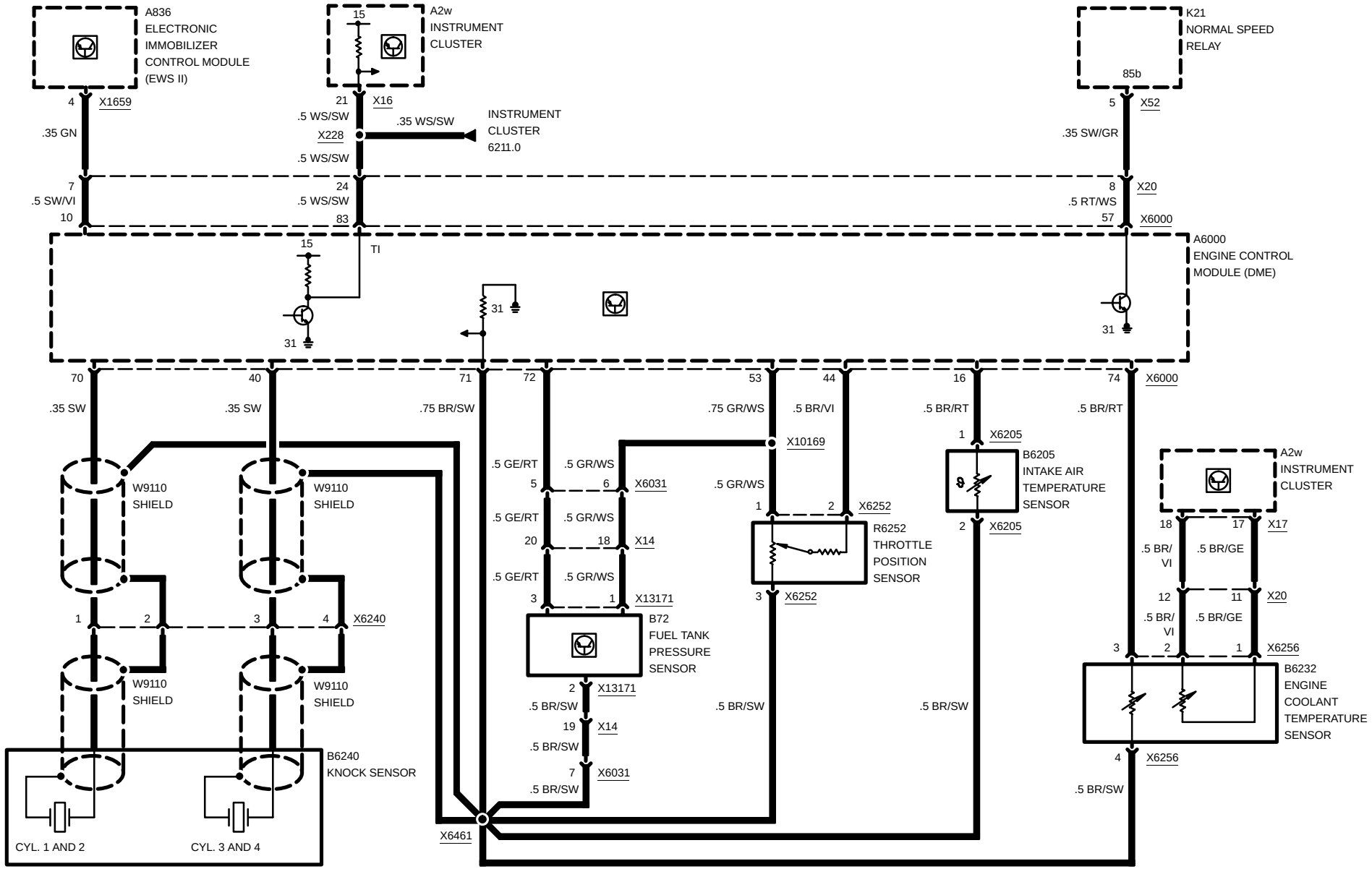

2.5 GN
X6833
1 GN
1 GN
1 GN
1 GN
3
X6151
T6151
CYL. 1 IGNITION COIL
3
X6152
T6152
CYL. 2 IGNITION COIL
3
X6153
T6153
CYL. 3 IGNITION COIL
3
X6154
T6154
CYL. 4 IGNITION COIL
1
2
X6151
1 BR
1 BR
GROUND DISTRIBUTION 0670.4
X6456
2
1
X6152
1 WS
1 RT
1
2
X6153
1 BR
1 BR
GROUND DISTRIBUTION 0670.4
X6456
2
1
X6154
1 GE
1 BL
SPARK PLUGS
1
7
5
6
X6150
W6165
SHIELD UP TO 10mm BEFORE IGNITION COIL CONNECTOR
1.5 WS
1.5 RT
1.5 GE
1.5 BL
49
50
22
23
X6000
A6000
ENGINE CONTROL MODULE (DME)
31
31
31
31
GROUND DISTRIBUTION 0670.4
X6454

ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

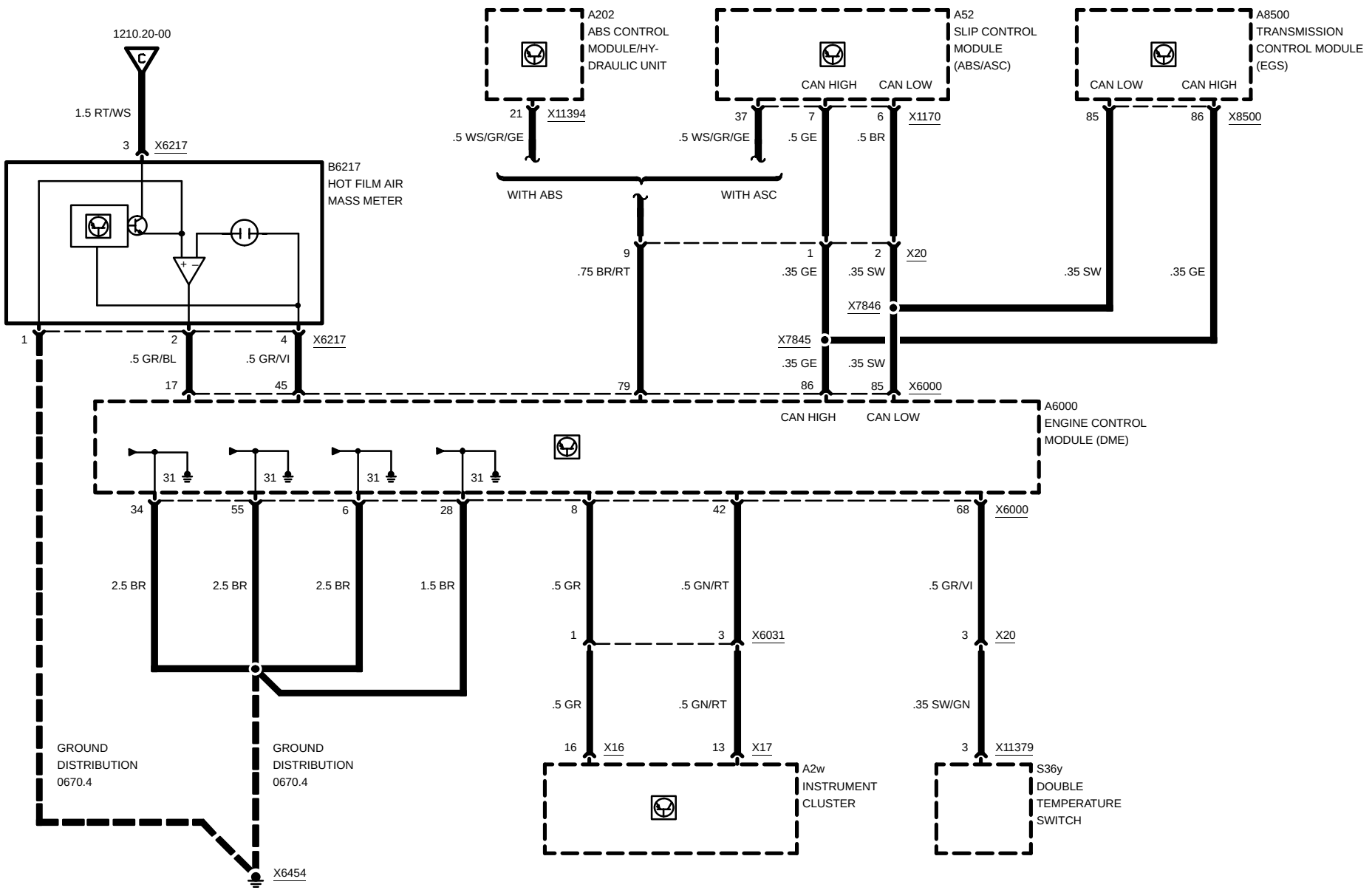
FUEL PUMP, HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

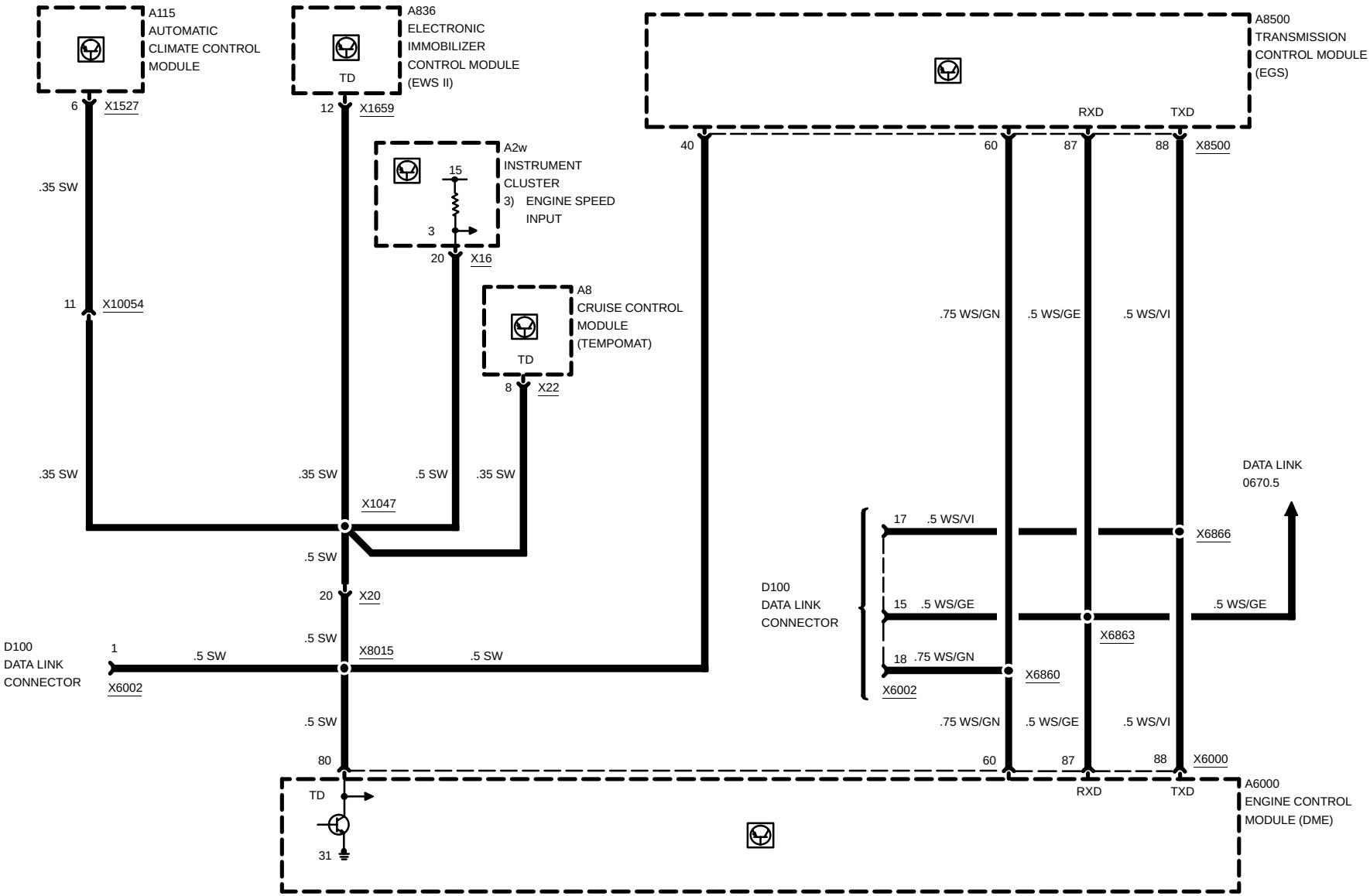


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

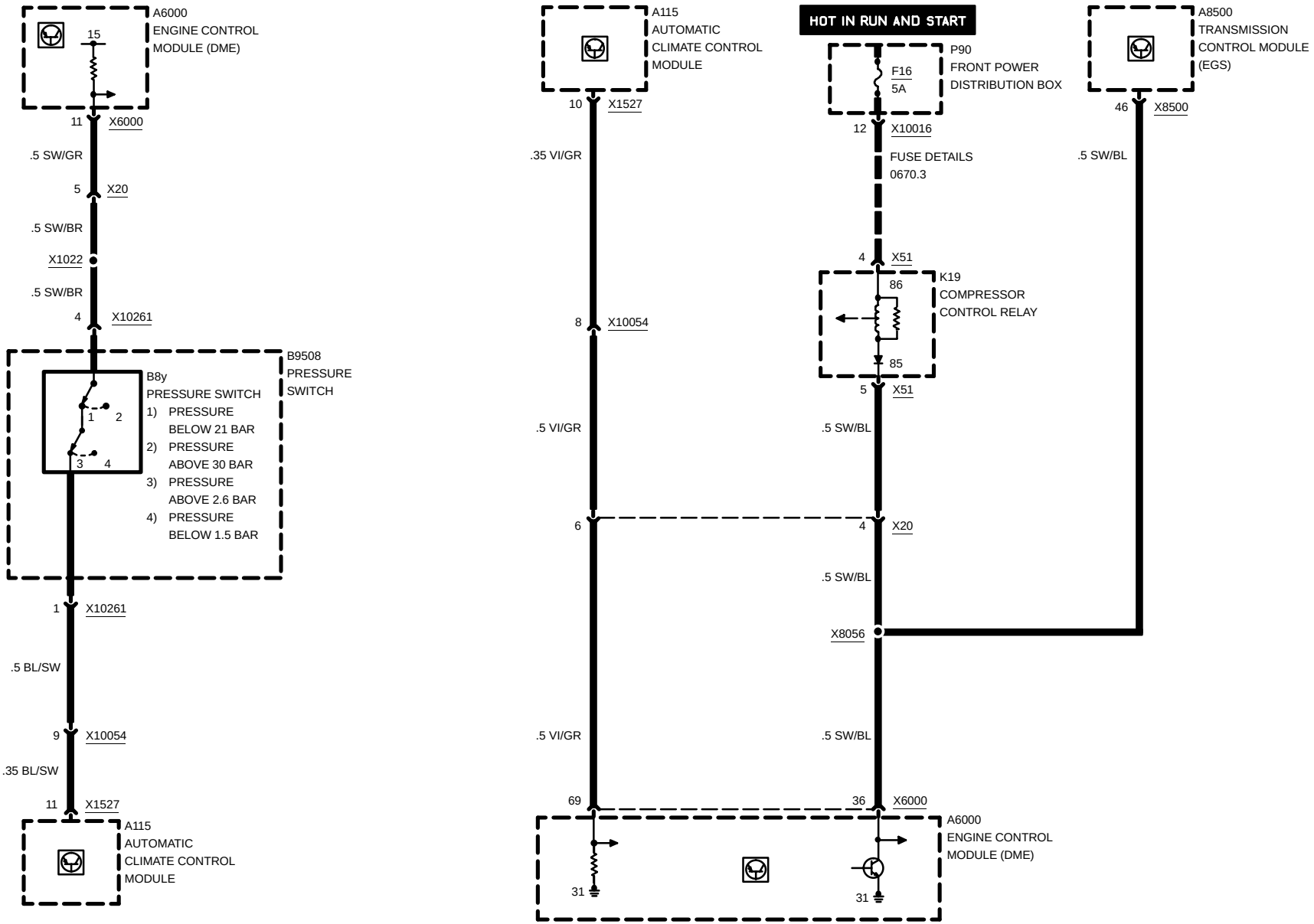


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

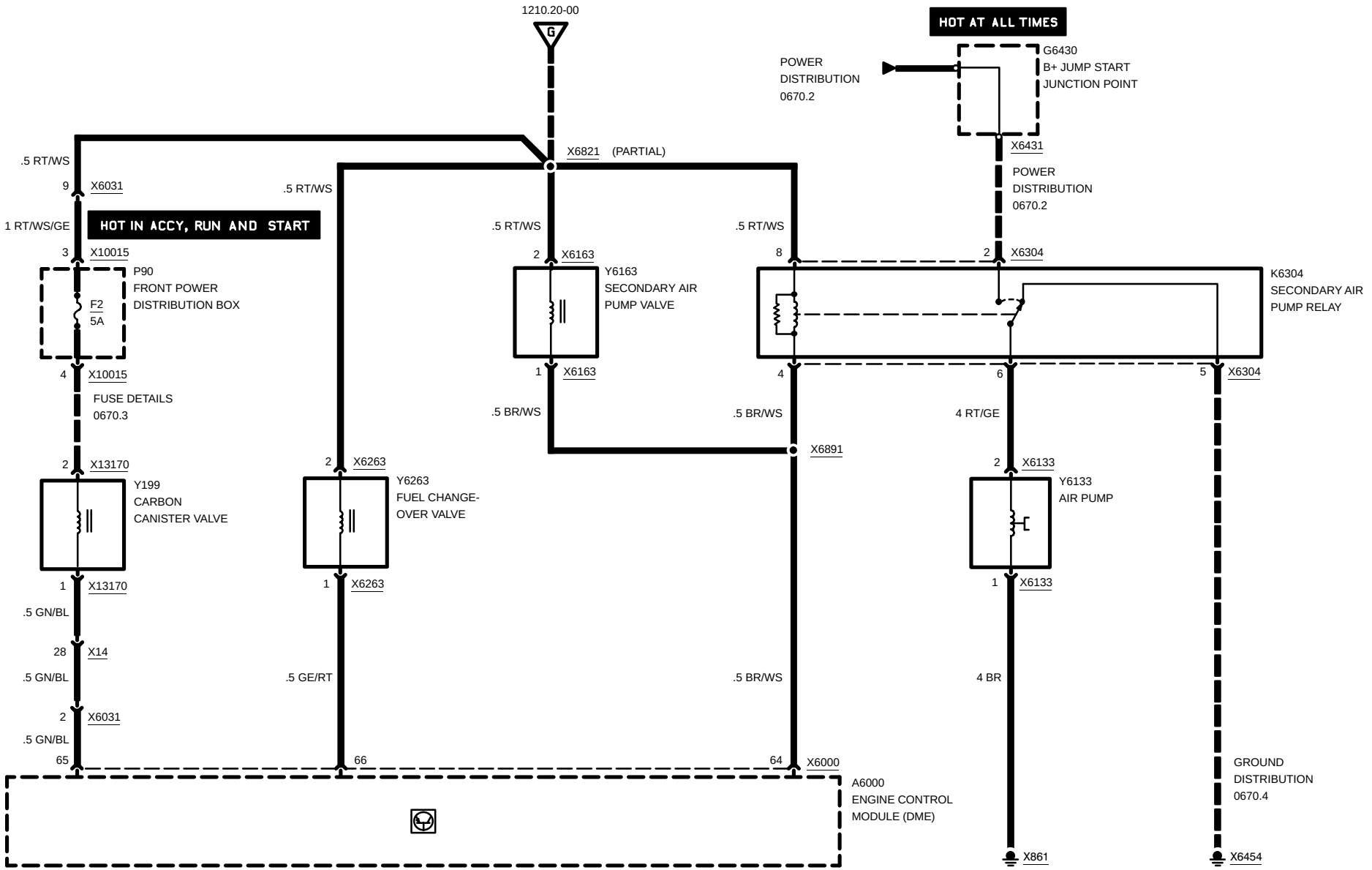
DATA LINK



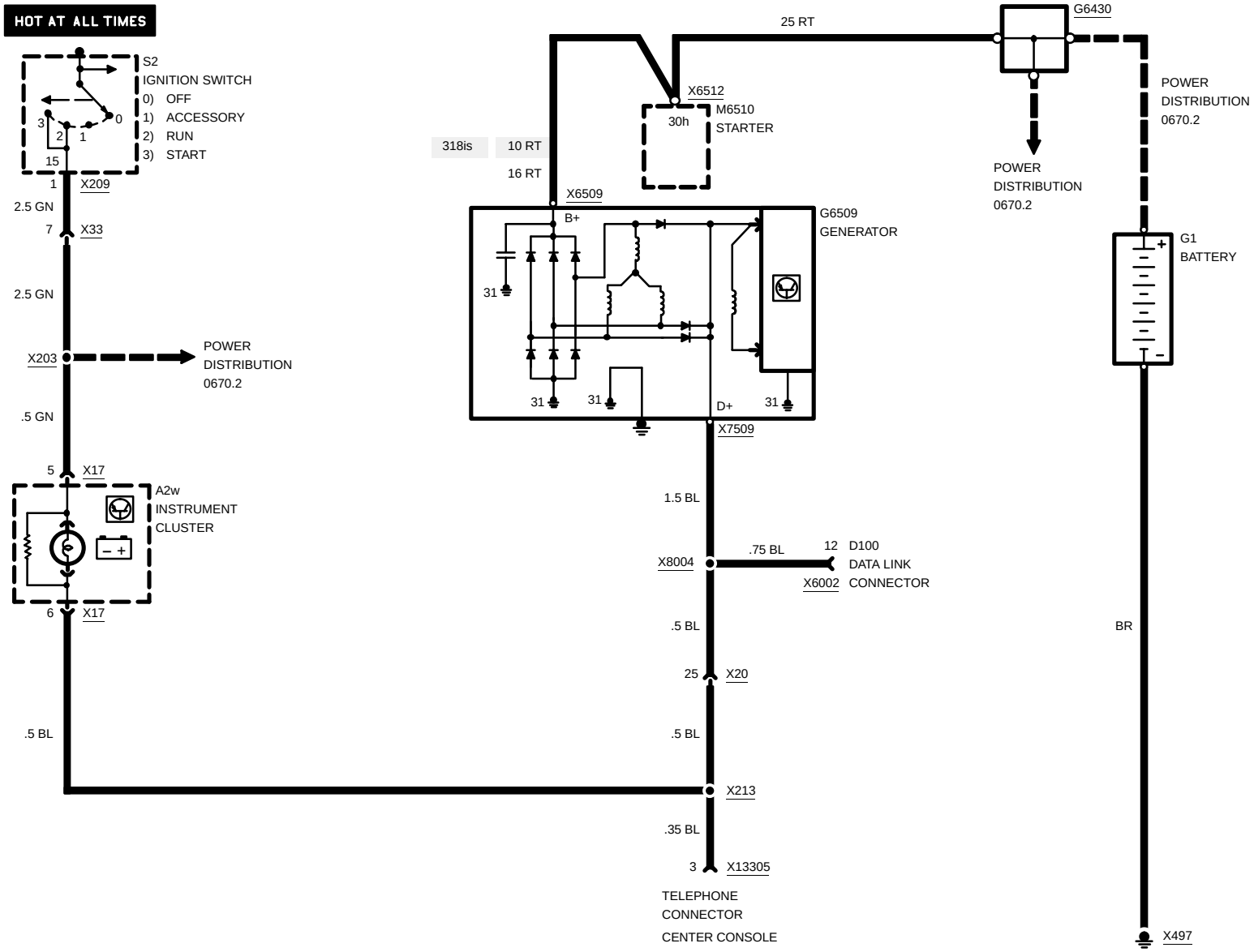
ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)

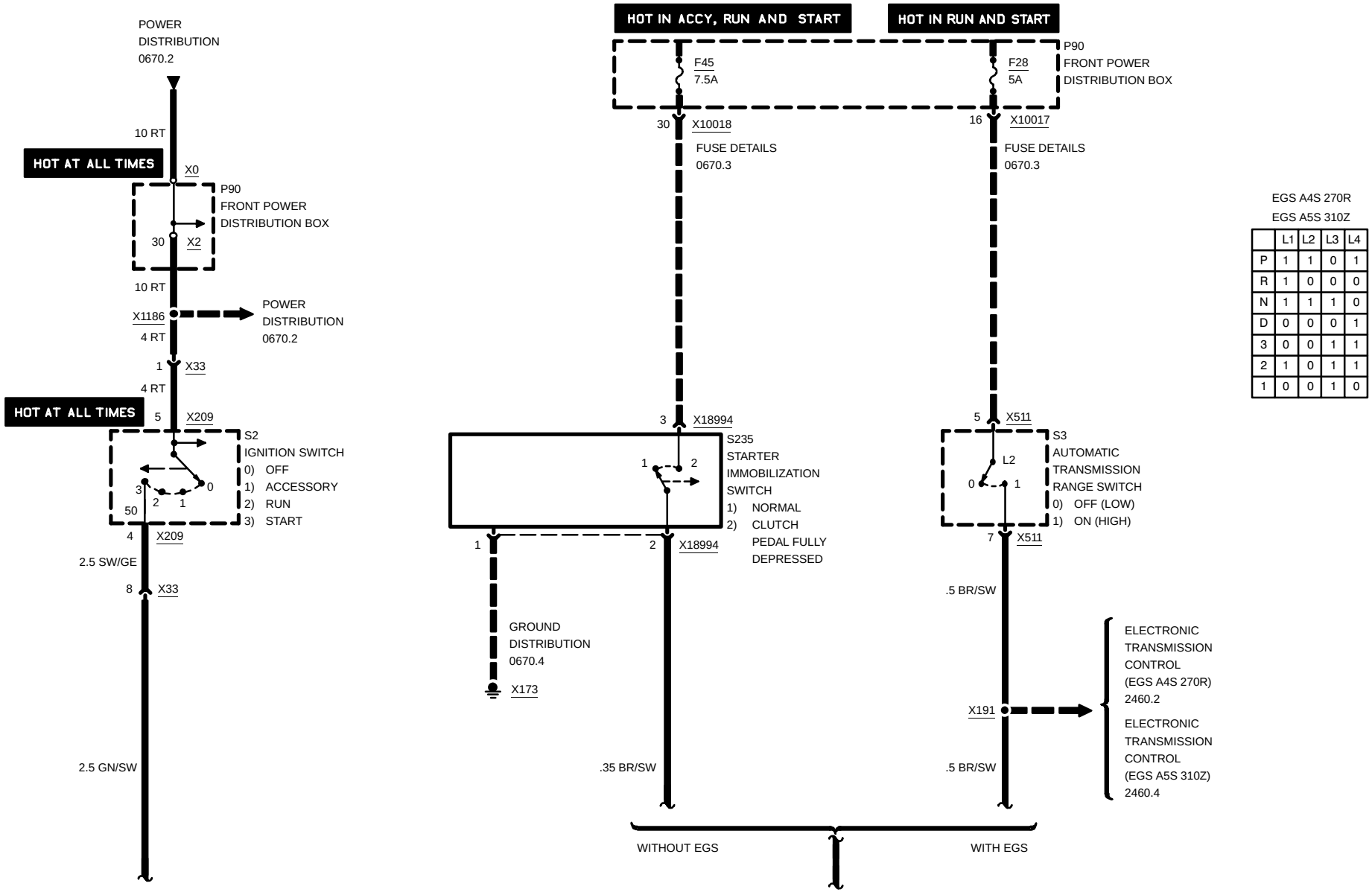


ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)



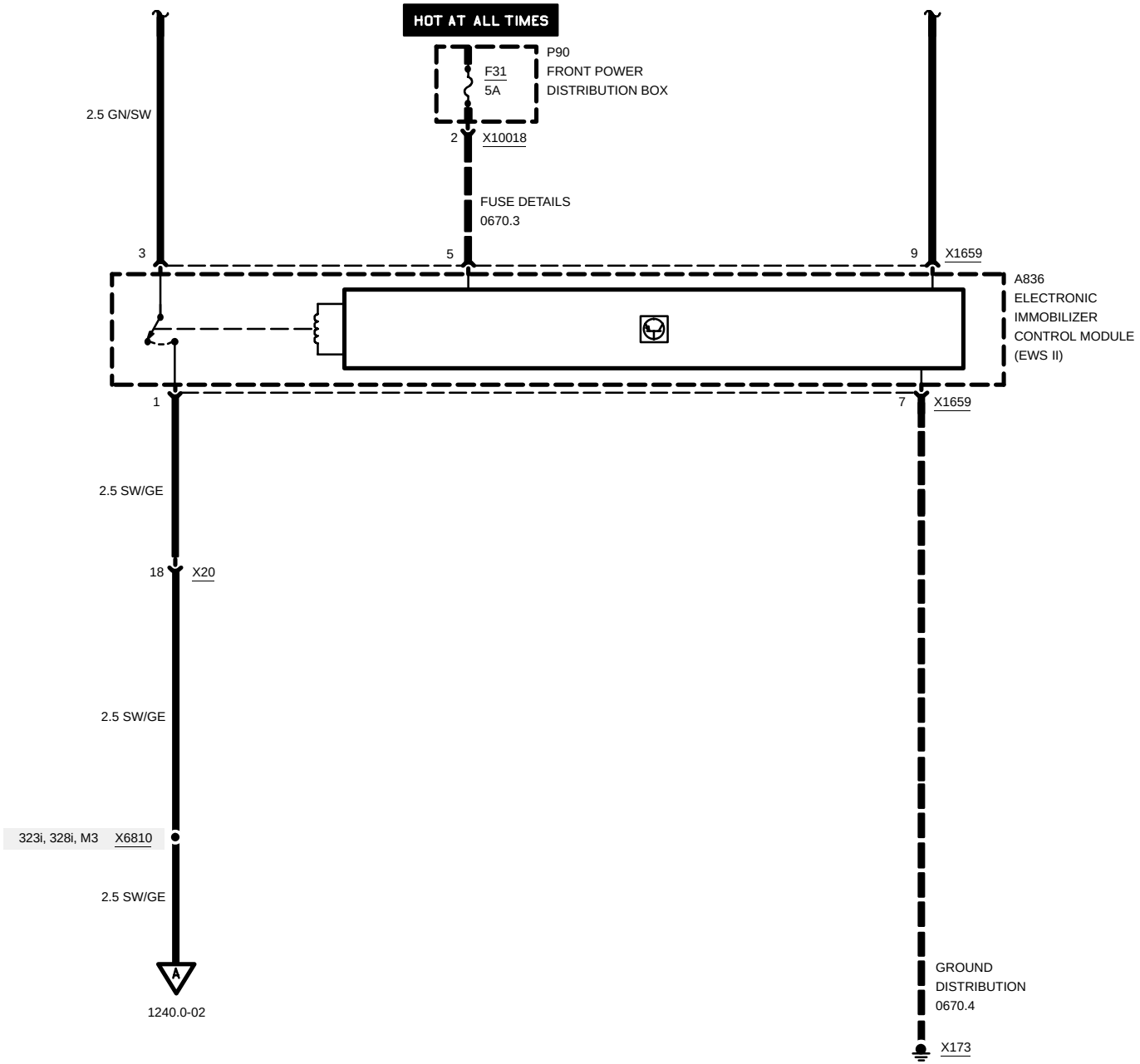
1230.0 CHARGING SYSTEM



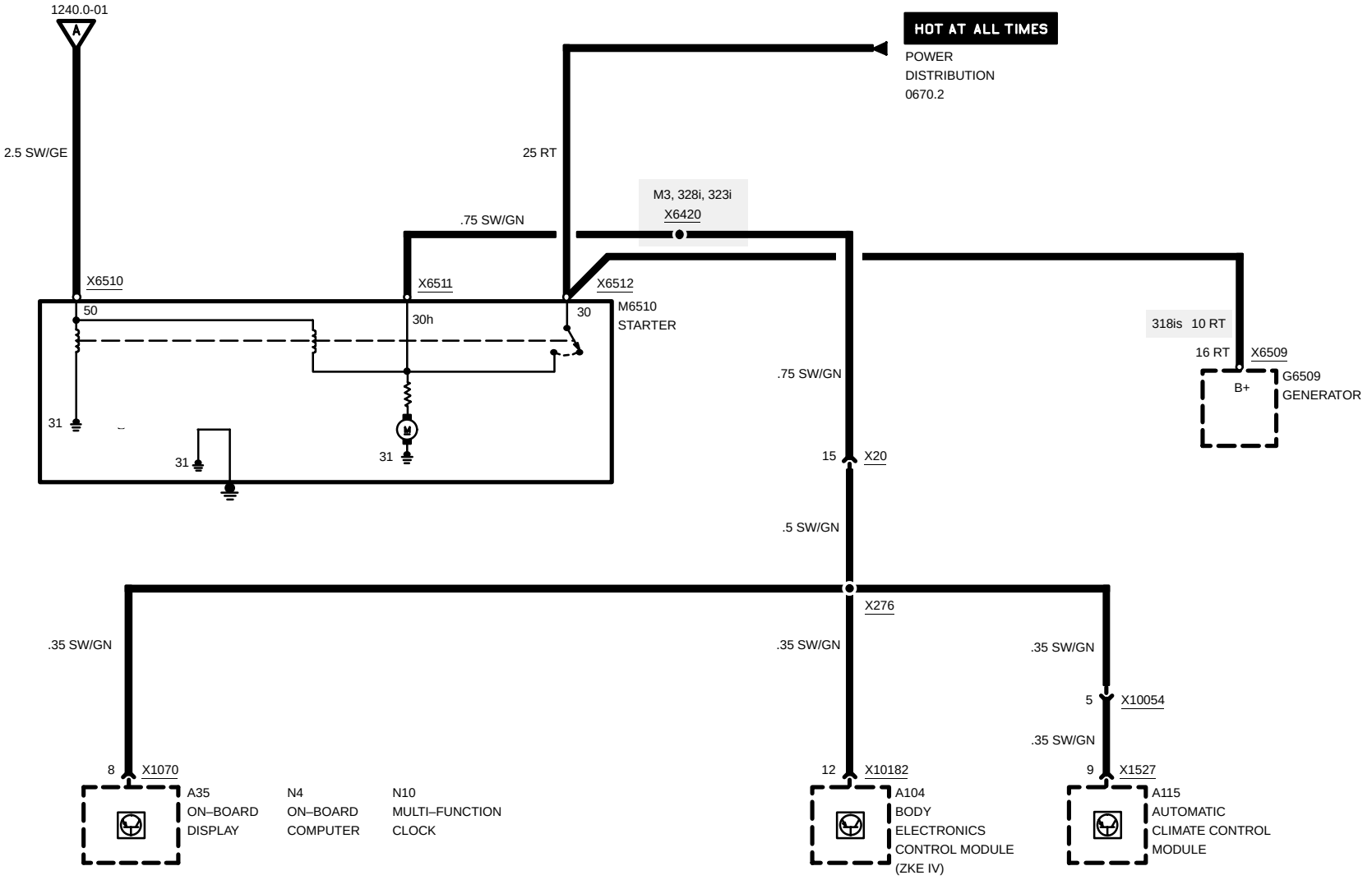


EGS A4S 270R
EGS A5S 310Z

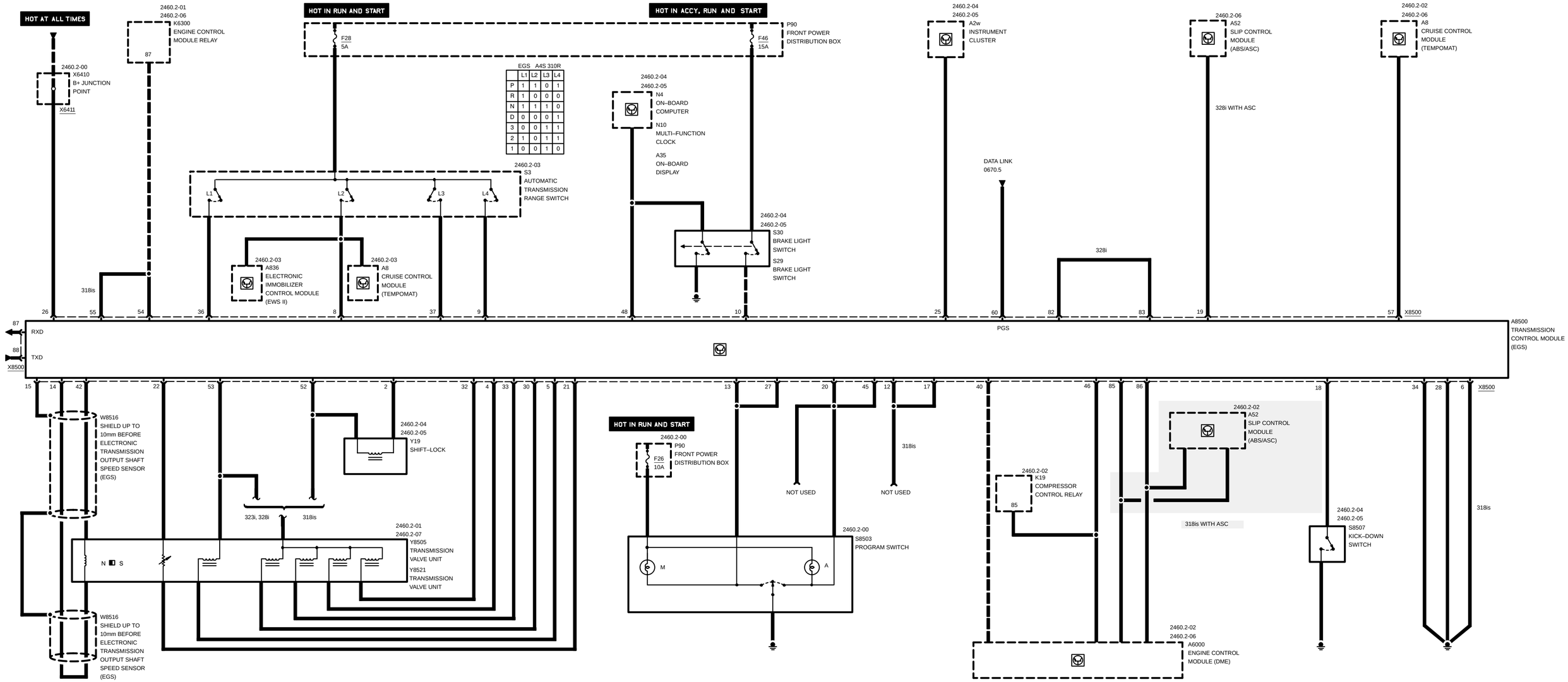
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

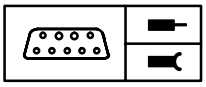

HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F31
5A
2.5 GN/SW
2
X10018
FUSE DETAILS
0670.3
3
5
9
X1659
A836
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS II)
1
7
X1659
2.5 SW/GE
18
X20
2.5 SW/GE
323i, 328i, M3
X6810
2.5 SW/GE
A
1240.0-02
GROUND
DISTRIBUTION
0670.4
X173

START


1240.0-01
A
HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
2.5 SW/GE
25 RT
M3, 328i, 323i
X6420
.75 SW/GN
X6510
X6511
X6512
50
30h
30
M6510
STARTER
31
31
31
318is 10 RT
16 RT
X6509
G6509
GENERATOR
B+
.75 SW/GN
15
X20
.5 SW/GN
X276
.35 SW/GN
.35 SW/GN
.35 SW/GN
5
X10054
.35 SW/GN
8
X1070
12
X10182
9
X1527
A35
ON–BOARD DISPLAY
N4
ON–BOARD COMPUTER
N10
MULTI–FUNCTION CLOCK
A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)
A115
AUTOMATIC CLIMATE CONTROL MODULE

2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)



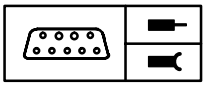


Pin Assignments

X8500

Pin	Type	Description/Function	Connection
177		Not used	
178	A	Shift-lock solenoid control	Shift-lock
179		Not used	
180	A	Band solenoid	Transmission valve unit (318is)
4	A	Solenoid valve 3 control (–)	Transmission valve unit (328i)
181	A	Hydraulic pressure regulator control (–)	Transmission valve unit
182	M	Ground	Ground point (318is)
183		Not used	
184	E	Gear range signal L2	Automatic transmission range switch
185	E	Gear range signal L4	Automatic transmission range switch
186	E	Brake pedal position	Brake light switch
187		Not used	
188	E	Sport mode signal	Not used
189	E	Manual mode signal	Program switch
190	E	Output speed (–)	Transmission valve unit
191	M	Ground for shield	Shield for speed sensor
192		Not used	
193	A	S-program indication	Not used
194	E	Kick-down signal	Kick-down switch
195	E	ASC signal	ASC module (328i)
196	E	Automatic mode signal	Program switch
197	E	Oil temperature signal (–)	Transmission valve unit
198	E	Oil temperature signal (+)	Transmission valve unit
199		Not used	
200		Not used	
201	A	Fault indicator signal	Instrument cluster
202	E	Battery voltage	B+ jump start junction point
203	A	M-program indication	Program switch
204	M	Ground	Ground point
205		Not used	

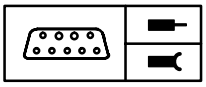
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
206	A	Solenoid valve 1 control (–)	Transmission valve unit
207		Not used	
208	A	Torque converter clutch solenoid valve control (–)	Transmission valve unit
209	A	Solenoid valve 2 control (–)	Transmission valve unit
210	M	Ground	Ground point
211		Not used	
212	E	Gear range signal L1	Automatic transmission range switch
213	E	Gear range signal L3	Automatic transmission range switch
214		Not used	
215		Not used	
216	E	RPM speed signal TD	Engine control module (318is)
217		Not used	
218	E	Output speed (+)	Transmission valve unit
219		Not used	
220		Not used	
221	A	A-program indication	Program switch
222	E	A/C compressor-ON-signal	Engine control module (318is)
223		Not used	
224	E	Brake switch test signal	Brake light switch
225		Not used	
226		Not used	
227		Not used	
228	A	Voltage supply	Shift-lock/Transmission valve unit (318is)
52	A	Voltage supply	Shift-lock (328i)
229	E	Voltage pressure regulator	Transmission valve unit
230	E	Voltage supply, terminal 87	Engine control module relay
231	E	Voltage supply, terminal 87	Engine control module relay (318is)
232		Not used	
233	E	Cruise control signal	Cruise control module
234		Not used	
235		Not used	

E = Input, A = Output, M = Ground



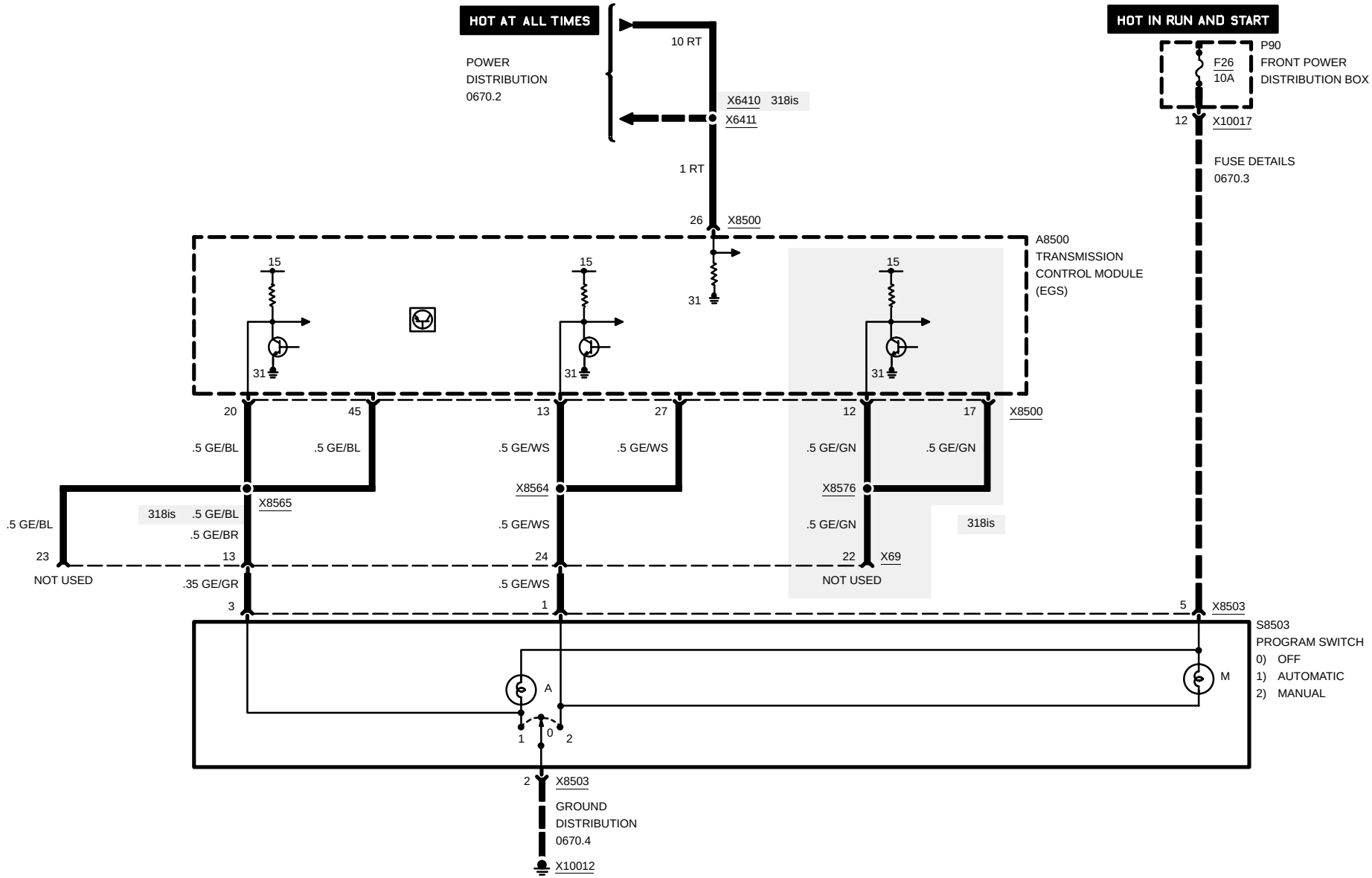
Pin Assignments

Pin	Type	Description/Function	Connection
236	E	Programming voltage	Data link connector
237		Not used	
238		Not used	
239		Not used	
240		Not used	
241		Not used	
242		Not used	
243		Not used	
244		Not used	
245		Not used	
246		Not used	
247		Not used	
248		Not used	
249		Not used	
250		Not used	
251		Not used	
252		Not used	
253		Not used	
254		Not used	
255		Not used	
256		Not used	
257		Not used	
258	E/A	Jumper plug	(328i)
259	E/A	Jumper plug	(328i)
260		Not used	
261	E/A	Can-Low	Engine control module
262	E/A	Can-High	Engine control module
263	A	RxD diagnostic data link	Data link connector (318is)
264	E/A	TxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

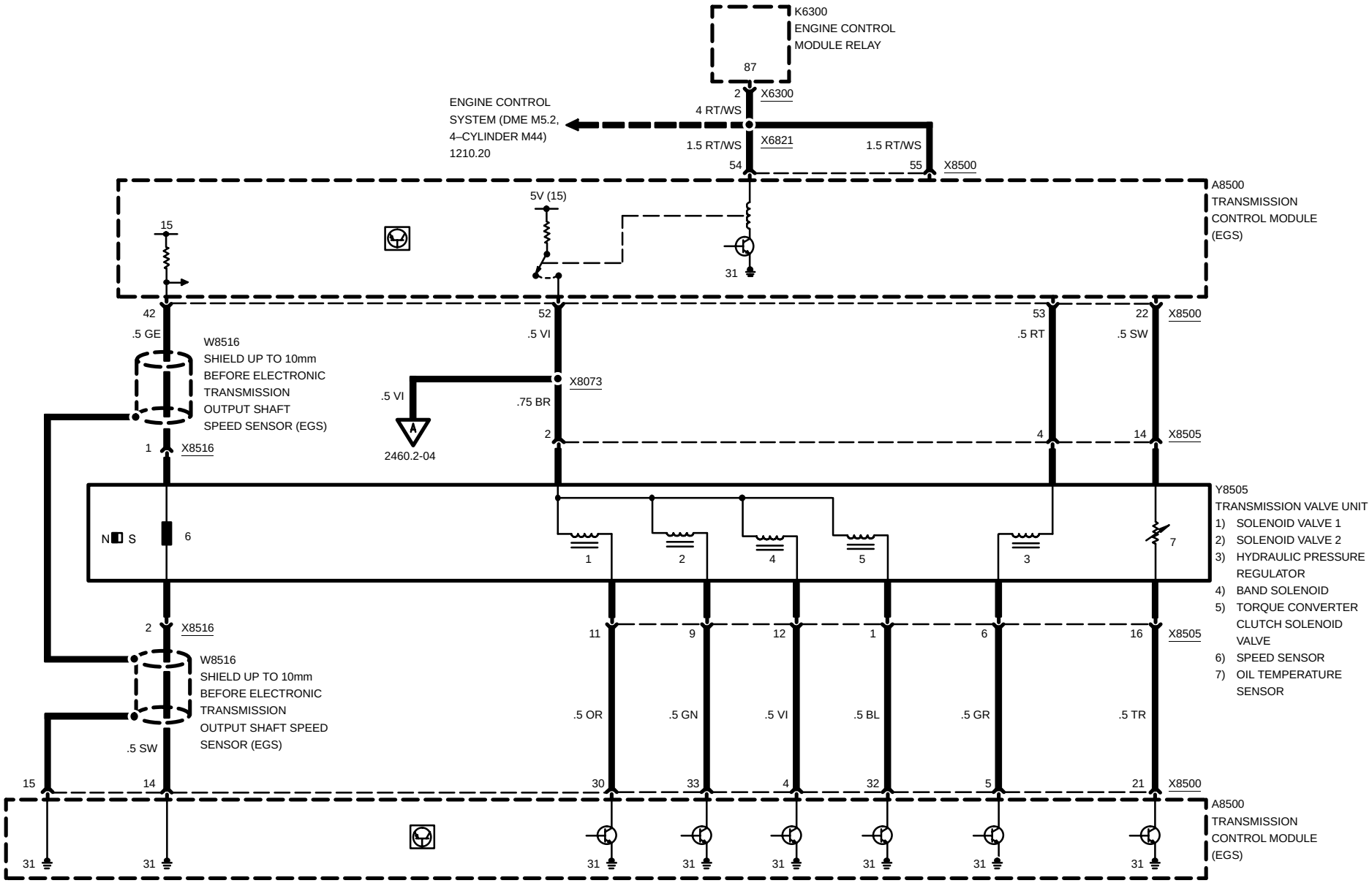
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

POWER, PROGRAM SWITCH

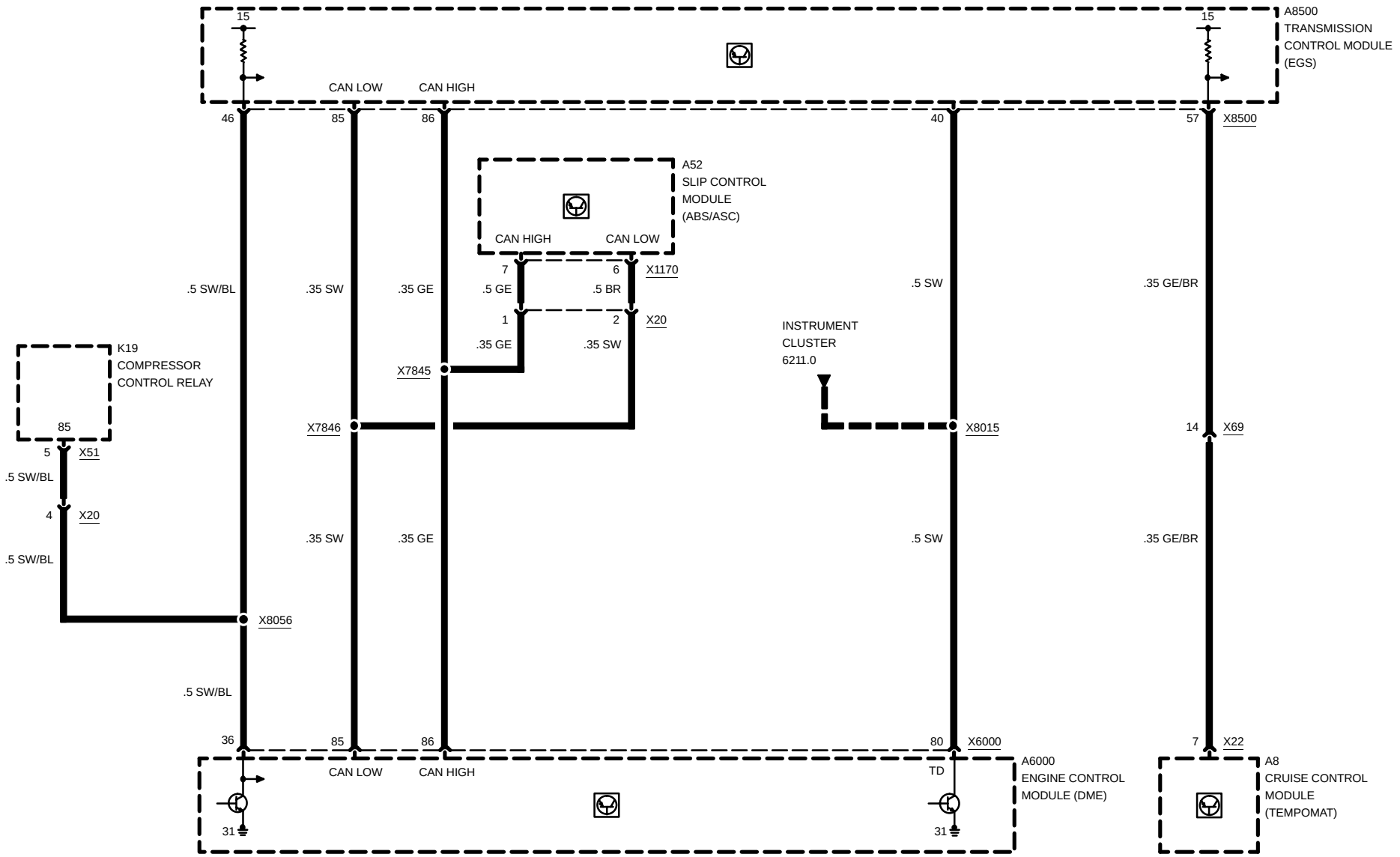


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 318is

POWER

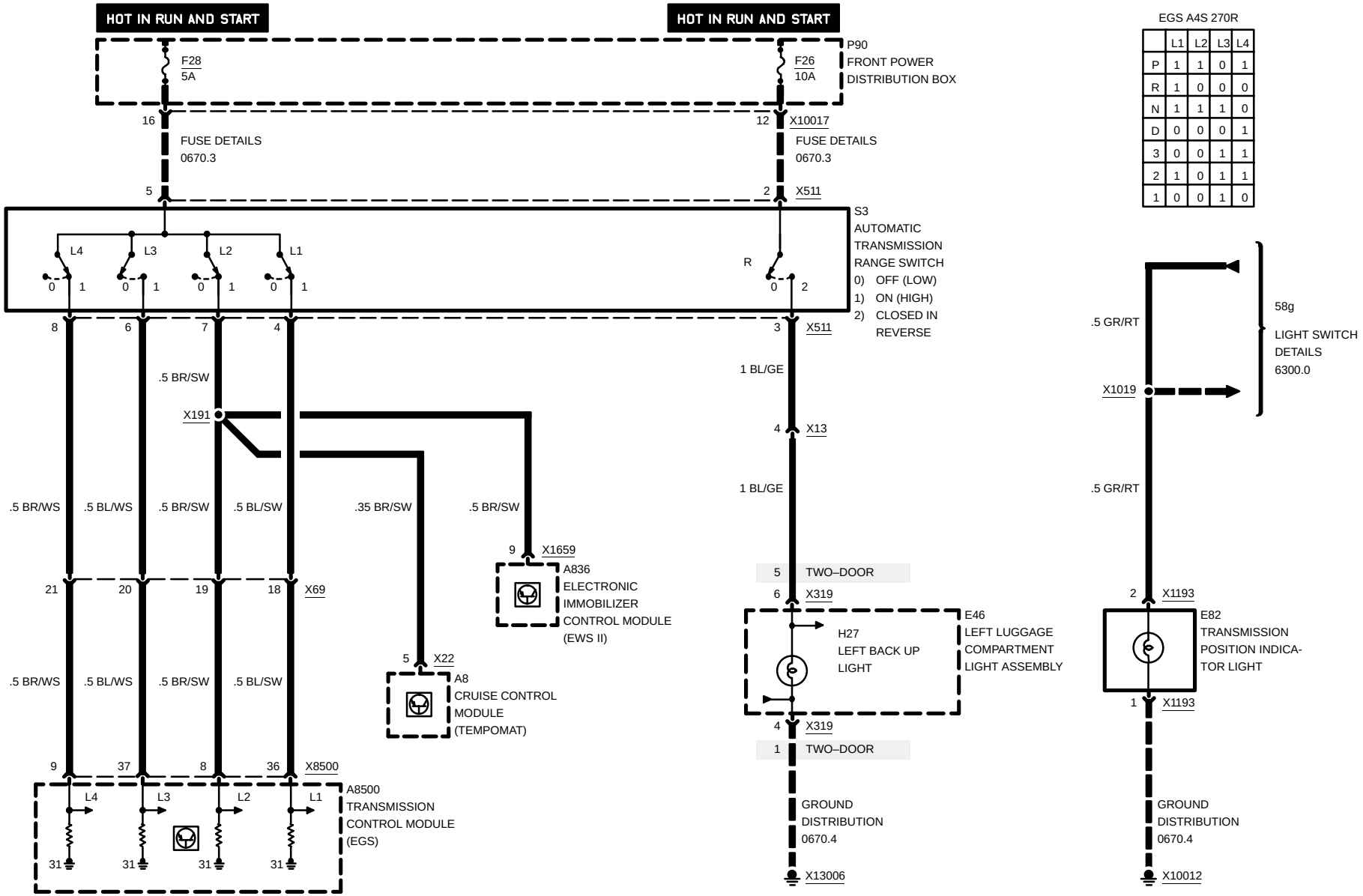


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 318is



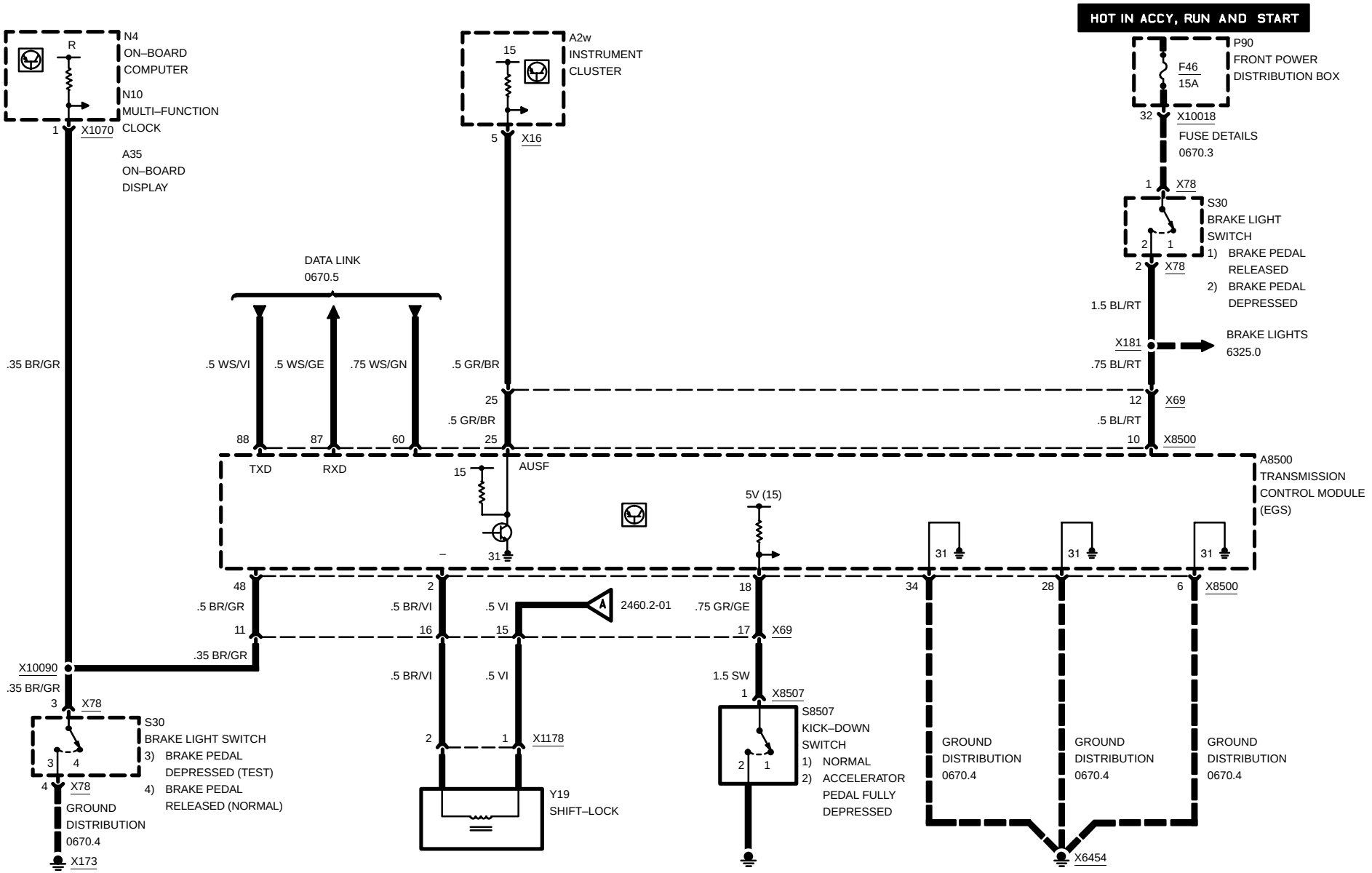
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R)

GEAR SELECTOR SWITCH



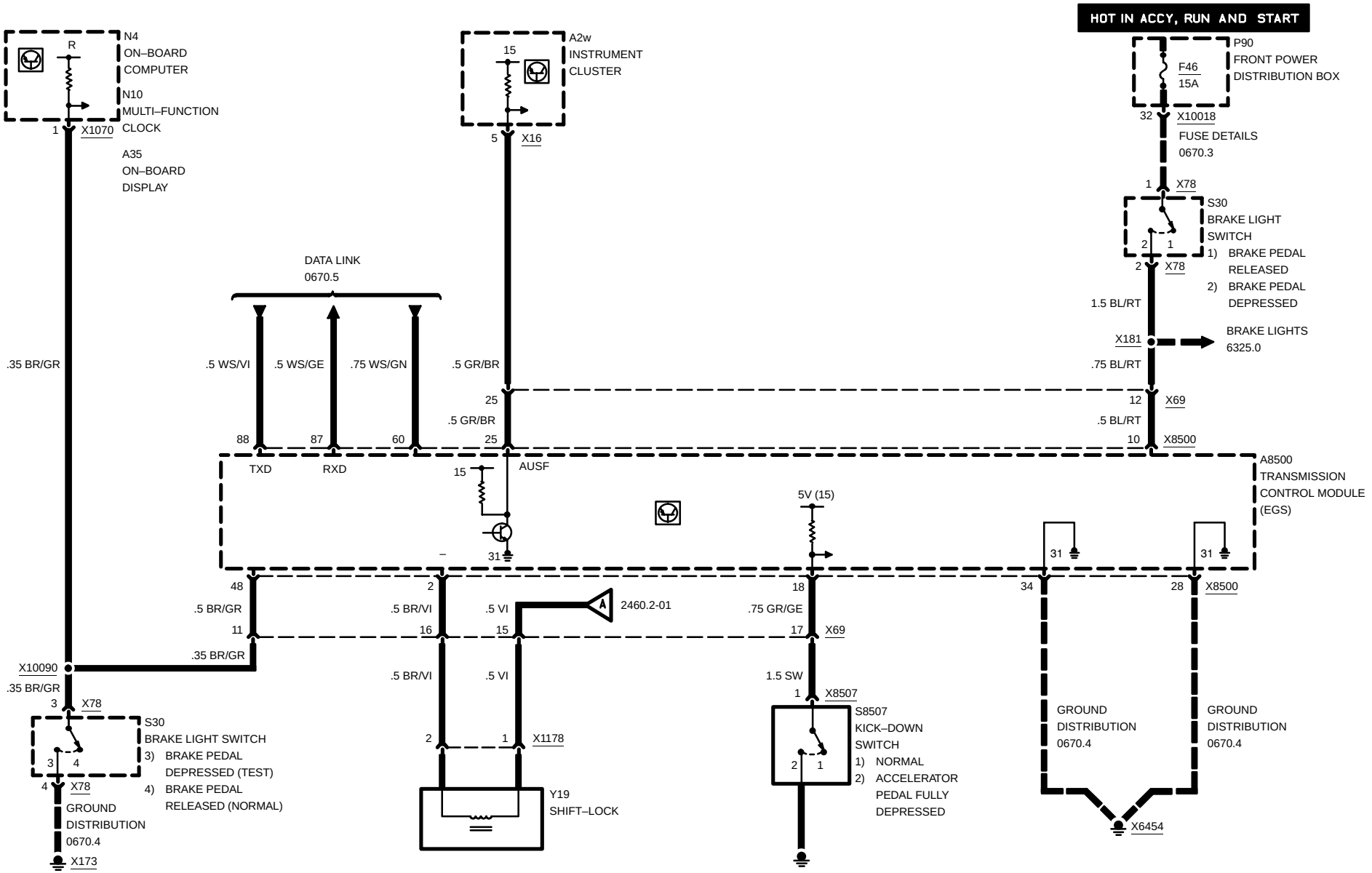
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 318is

SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH

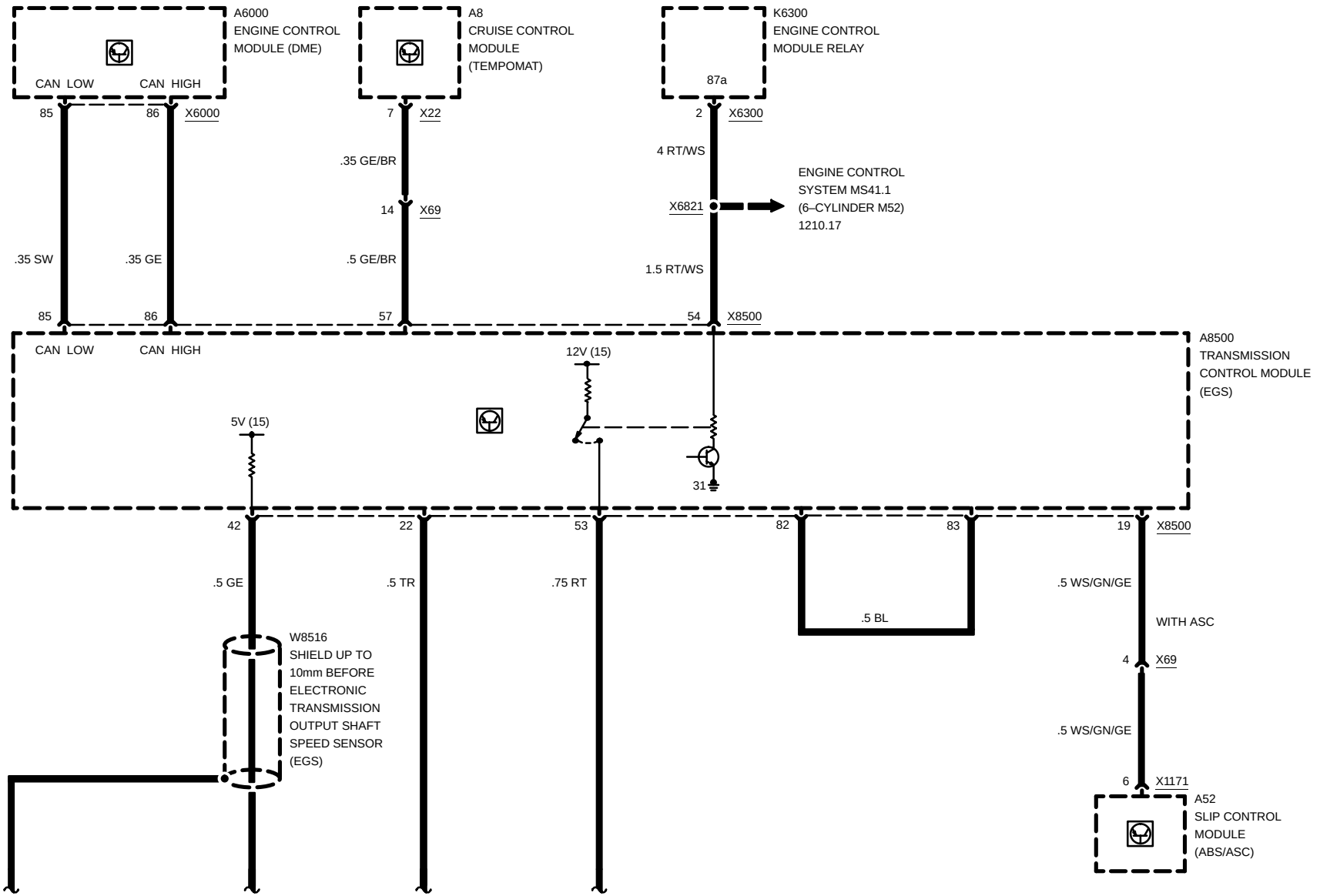


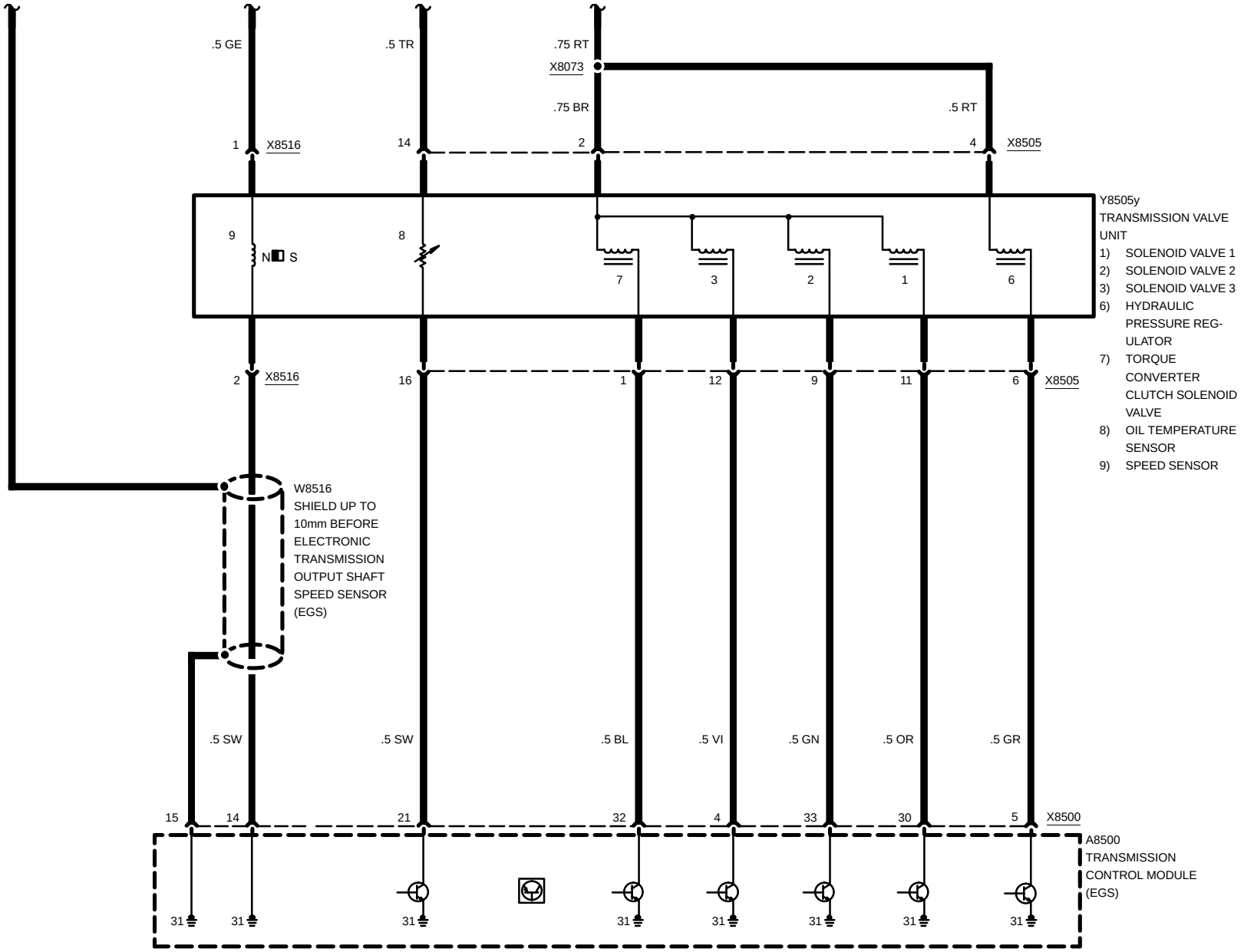
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 323i, 328i

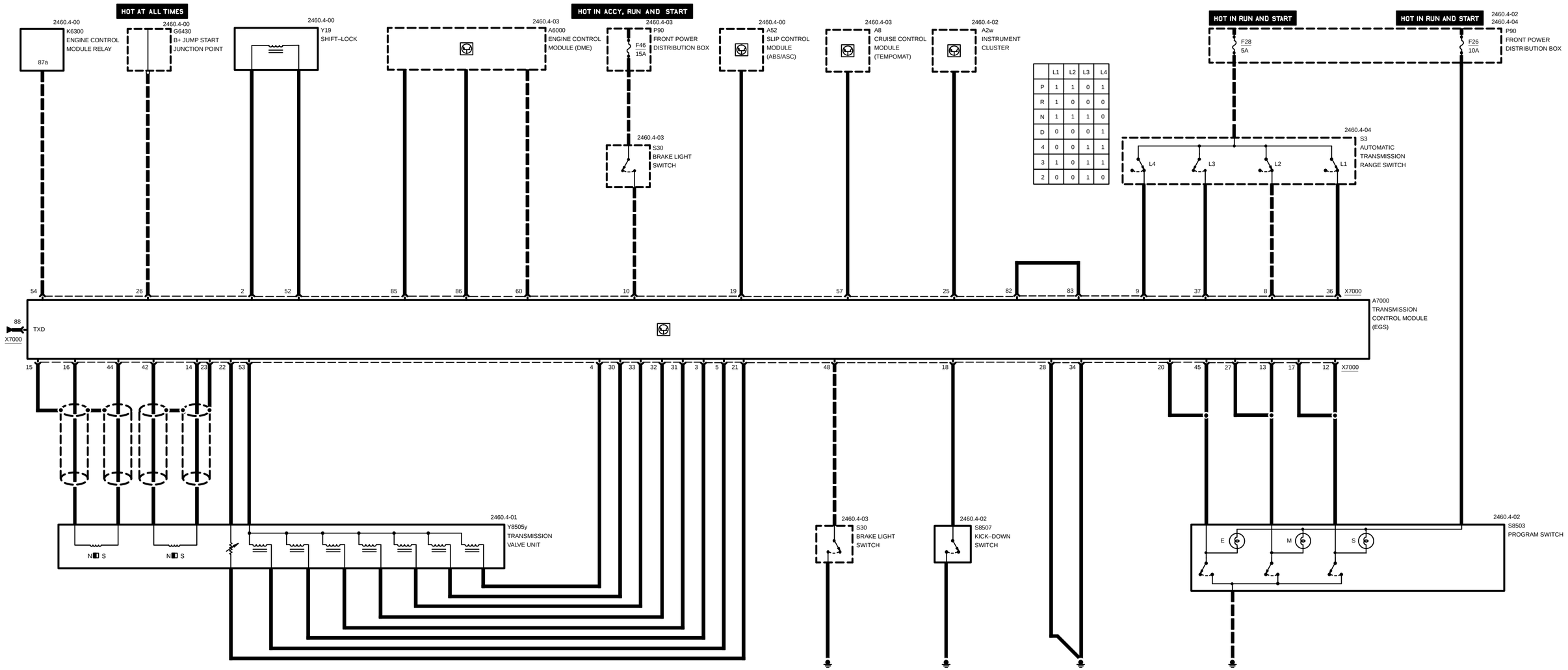
SHIFT LOCK, DATA LINK, KICK–DOWN SWITCH

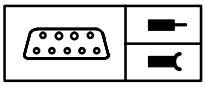


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 270R) 323i, 328i




.5 GE
.5 TR
.75 RT
X8073
.75 BR
.5 RT
1
X8516
14
2
4
X8505
9
N
S
8
7
3
2
1
6
Y8505y
TRANSMISSION VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
2
X8516
16
1
12
9
11
6
X8505
W8516
SHIELD UP TO 10mm BEFORE ELECTRONIC TRANSMISSION OUTPUT SHAFT SPEED SENSOR (EGS)
.5 SW
.5 SW
.5 BL
.5 VI
.5 GN
.5 OR
.5 GR
15
14
21
32
4
33
30
5
X8500
A8500
TRANSMISSION CONTROL MODULE (EGS)
31
31
31
31
31
31
31
31


HOT AT ALL TIMES
2460.4-00
K6300
ENGINE CONTROL
MODULE RELAY
87a
2460.4-00
G6430
B+ JUMP START
JUNCTION POINT
2460.4-00
Y19
SHIFT–LOCK
HOT IN ACCY, RUN AND START
2460.4-03
A6000
ENGINE CONTROL
MODULE (DME)
2460.4-03
P90
FRONT POWER
DISTRIBUTION BOX
F46
15A
2460.4-03
S30
BRAKE LIGHT
SWITCH
2460.4-00
A52
SLIP CONTROL
MODULE
(ABS/ASC)
2460.4-03
A8
CRUISE CONTROL
MODULE
(TEMPOMAT)
2460.4-02
A2w
INSTRUMENT
CLUSTER
HOT IN RUN AND START
HOT IN RUN AND START
2460.4-02
2460.4-04
P90
FRONT POWER
DISTRIBUTION BOX
F28
5A
F26
10A
2460.4-04
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L4
L3
L2
L1
P 1 1 0 1
R 1 0 0 0
N 1 1 1 0
D 0 0 0 1
4 0 0 1 1
3 1 0 1 1
2 0 0 1 0
54 26 2 52 85 86 60 10 19 57 25 82 83 9 37 8 36 X7000
88
X7000
TXD
A7000
TRANSMISSION
CONTROL MODULE
(EGS)
15 16 44 42 14 23 22 53 4 30 33 32 31 3 5 21 48 18 28 34 20 45 27 13 17 12 X7000
2460.4-01
Y8505y
TRANSMISSION
VALVE UNIT
N S
N S
2460.4-03
S30
BRAKE LIGHT
SWITCH
2460.4-02
S8507
KICK–DOWN
SWITCH
2460.4-02
S8503
PROGRAM SWITCH
E
M
S

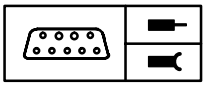


Pin Assignments

X7000

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Shift-lock	Shift-lock
3	A	Solenoid valve 5	Transmission valve unit
4	A	Torque converter clutch solenoid valve	Transmission valve unit
5	A	Hydraulic pressure regulator	Transmission valve unit
6		Not used	
7		Not used	
8		Gear range signal L2	Automatic transmission range switch
9		Gear range signal L4	Automatic transmission range switch
10	E	Brake pedal position	Brake light switch
11		Not used	
12	E	S-program indication	Program switch
13	E	M-program indication	Program switch
14	E	Speed sensor	Transmission valve unit
15	M	Shield speed sensor	Shield
16	A	Speed sensor n-turbine	Transmission valve unit
17	E	S-program	Program switch
18	E	Kick-down signal	Kick-down switch
19	E	ASC signal	ASC module
20	E	E-program	Program switch
21	M	Ground oil temperature sensor	Transmission valve unit
22	E	Oil temperature sensor	Transmission valve unit
23	M	Shield speed sensor	Shield
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	Jump start junction point
27	E	M-program	Program switch
28	M	Ground, electronics	Ground point
29		Not used	
30	A	Solenoid valve 1	Transmission valve unit

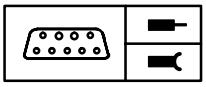
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Solenoid valve 4	Transmission valve unit
32	A	Solenoid valve 3	Transmission valve unit
33	A	Solenoid valve 2	Transmission valve unit
34	M	Ground	Ground point
35		Not used	
36	E	Gear range signal L1	Automatic transmission range switch
37	E	Gear range signal L3	Automatic transmission range switch
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42	A	Speed sensor n ab (+)	Transmission valve unit
43		Not used	
44	E	Speed sensor n-turbine	Transmission valve unit
45	E	E-program indication	Program switch
46		Not used	
47		Not used	
48	E	Brake switch test signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52	A	Voltage supply	Shift-lock
53	A	Voltage supply for solenoid valves	Transmission valve unit
54	E	Voltage supply	DME relay
55		Not used	
56		Not used	
57	E	Cruise control signal	Cruise control module
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	
62		Not used	

E = Input, A = Output, M = Ground

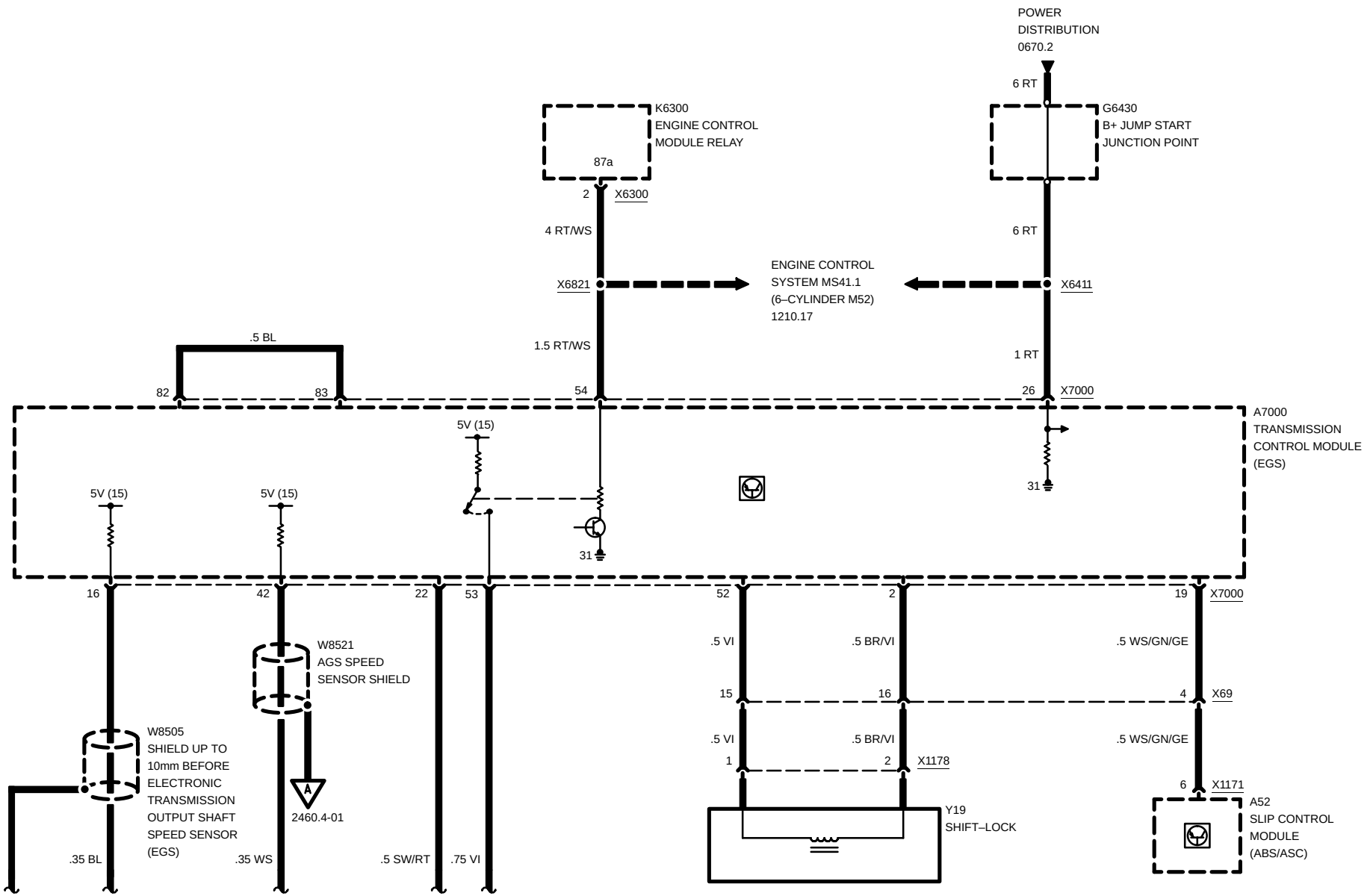


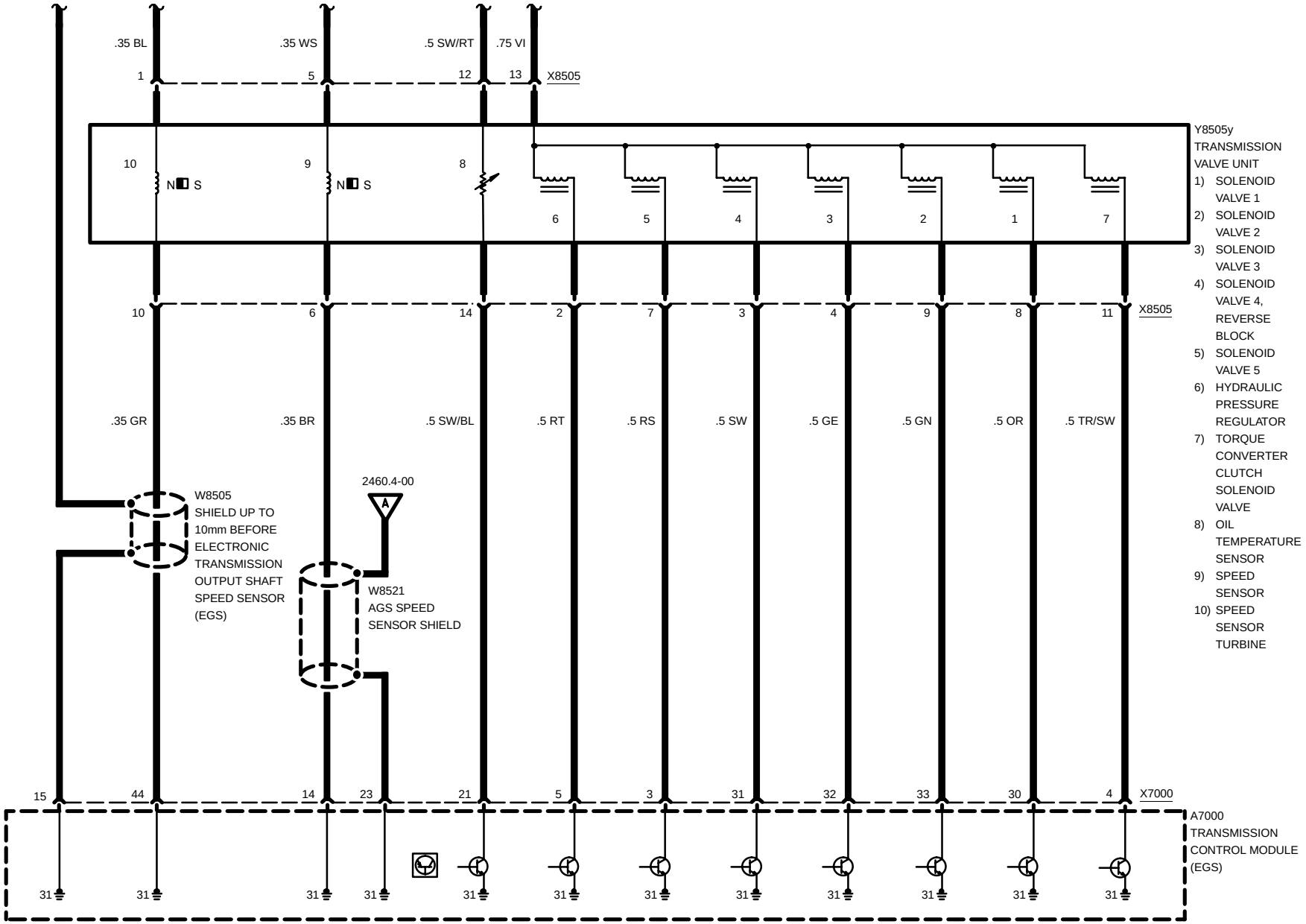
Pin Assignments

Pin	Type	Description/Function	Connection
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	Jumper plug	
83	E/A	Jumper plug	
84		Not used	
85	E/A	CAN-LOW	Engine control module
86	E/A	CAN-HIGH	Engine control module
87		Not used	
88	E/A	TxD diagnostic data link	Data link connector

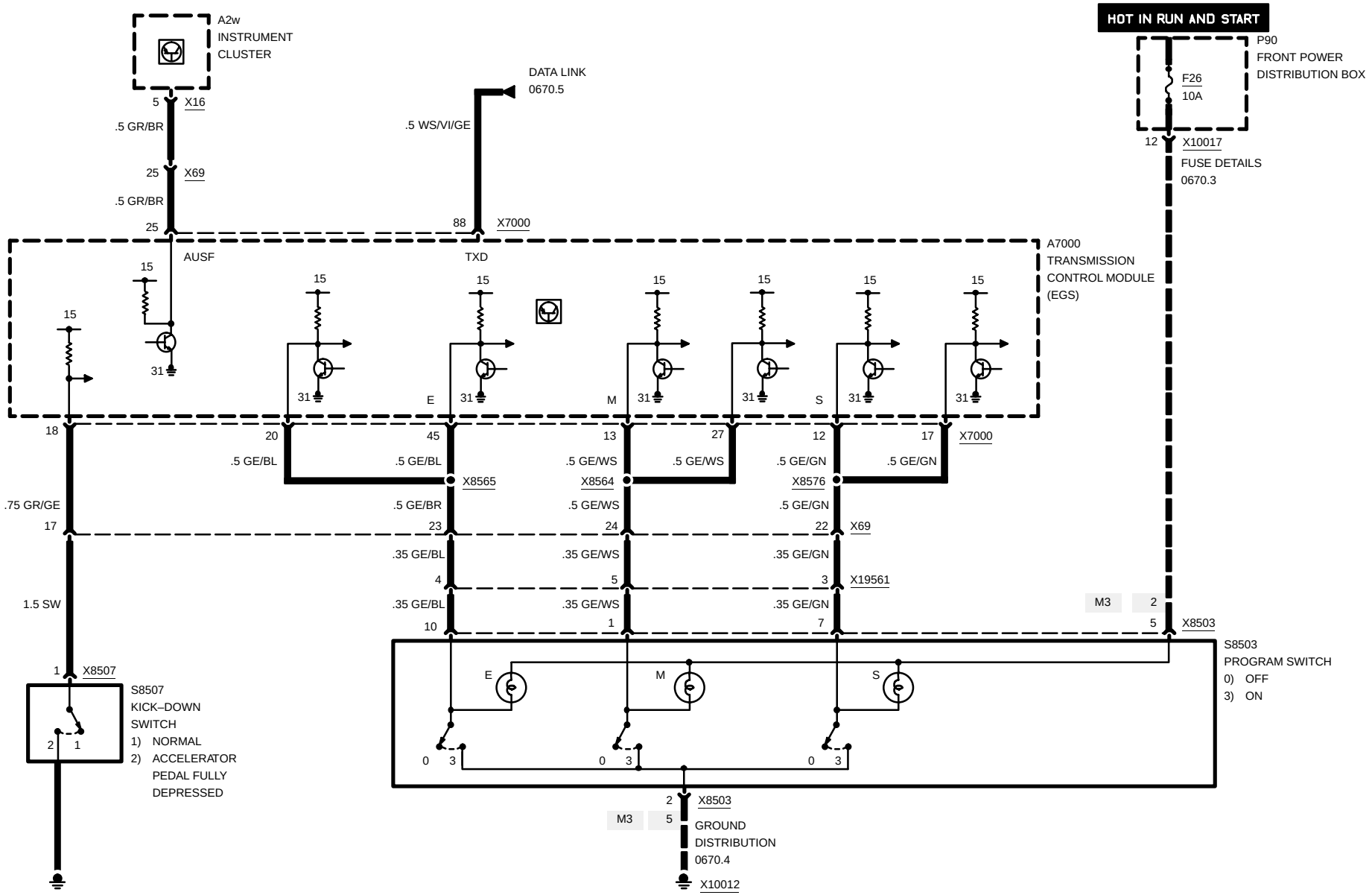
E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

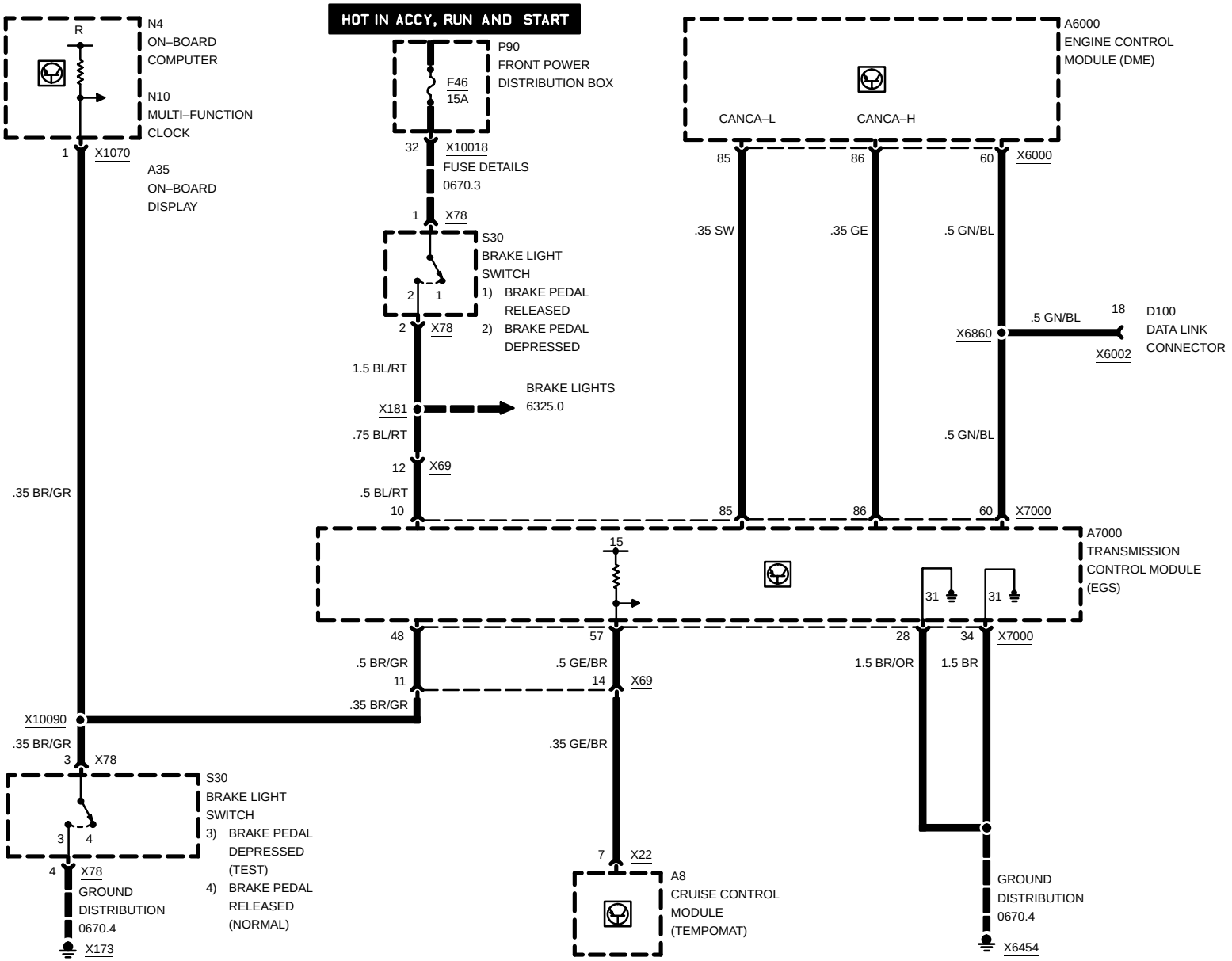



.35 BL
.35 WS
.5 SW/RT
.75 VI
1
5
12
13
X8505
Y8505y
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
4) SOLENOID VALVE 4, REVERSE BLOCK
5) SOLENOID VALVE 5
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE SENSOR
9) SPEED SENSOR
10) SPEED SENSOR TURBINE
10
9
8
N S
N S
6
5
4
3
2
1
7
10
6
14
2
7
3
4
9
8
11
X8505
.35 GR
.35 BR
.5 SW/BL
.5 RT
.5 RS
.5 SW
.5 GE
.5 GN
.5 OR
.5 TR/SW
W8505
SHIELD UP TO 10mm BEFORE ELECTRONIC TRANSMISSION OUTPUT SHAFT SPEED SENSOR (EGS)
2460.4-00
A
W8521
AGS SPEED SENSOR SHIELD
15
44
14
23
21
5
3
31
32
33
30
4
X7000
A7000
TRANSMISSION CONTROL MODULE (EGS)
31

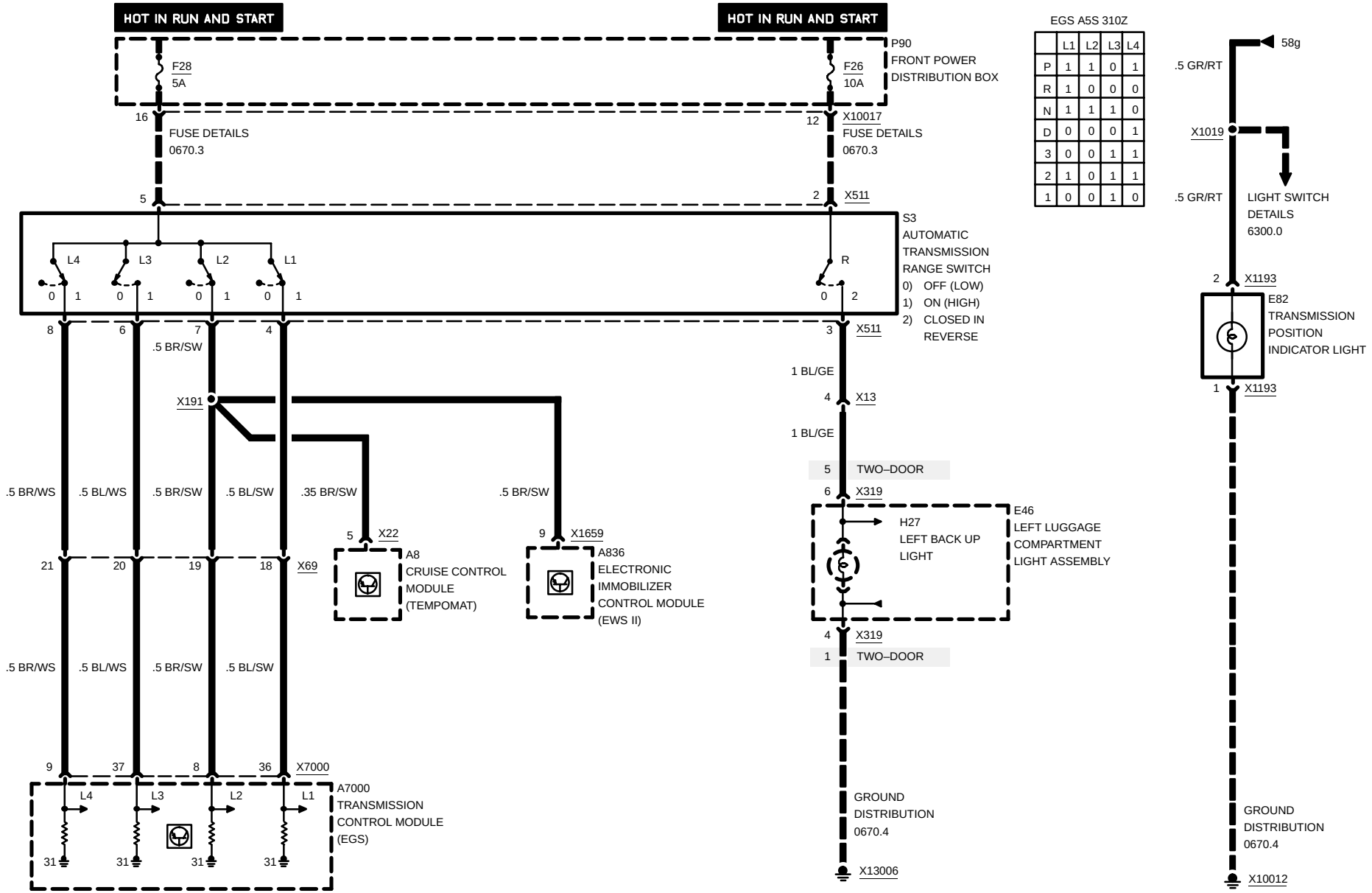
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



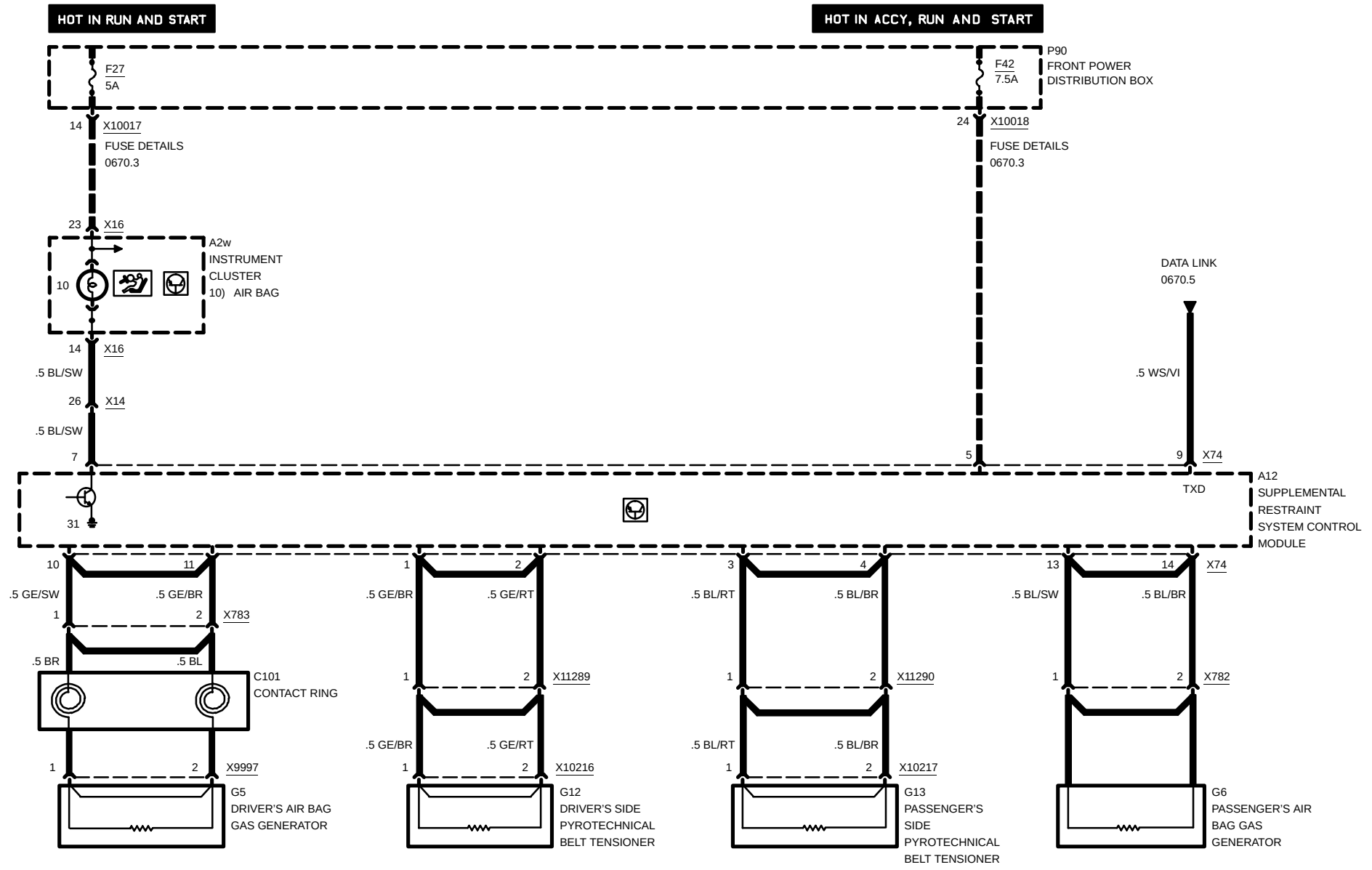
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



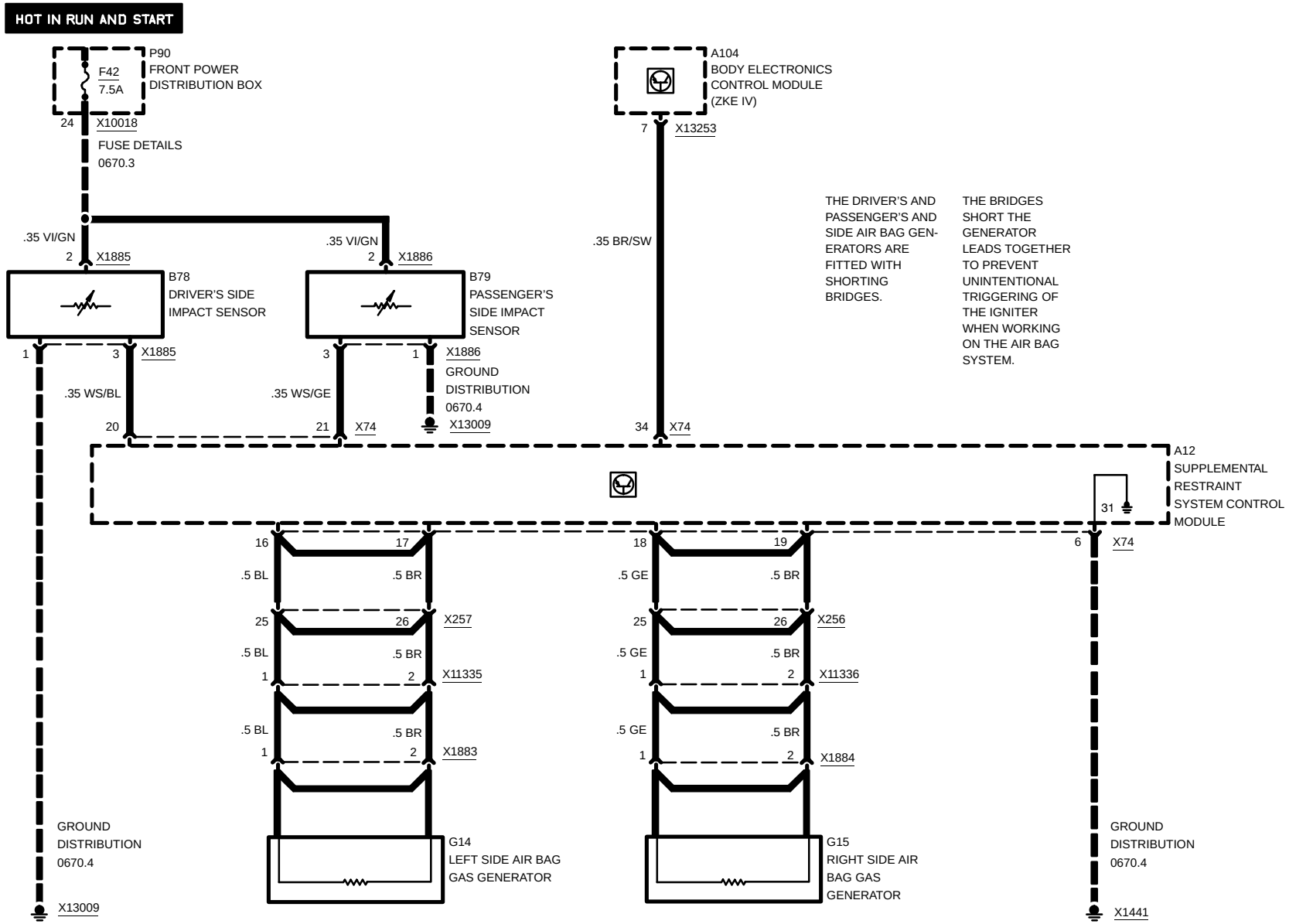
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



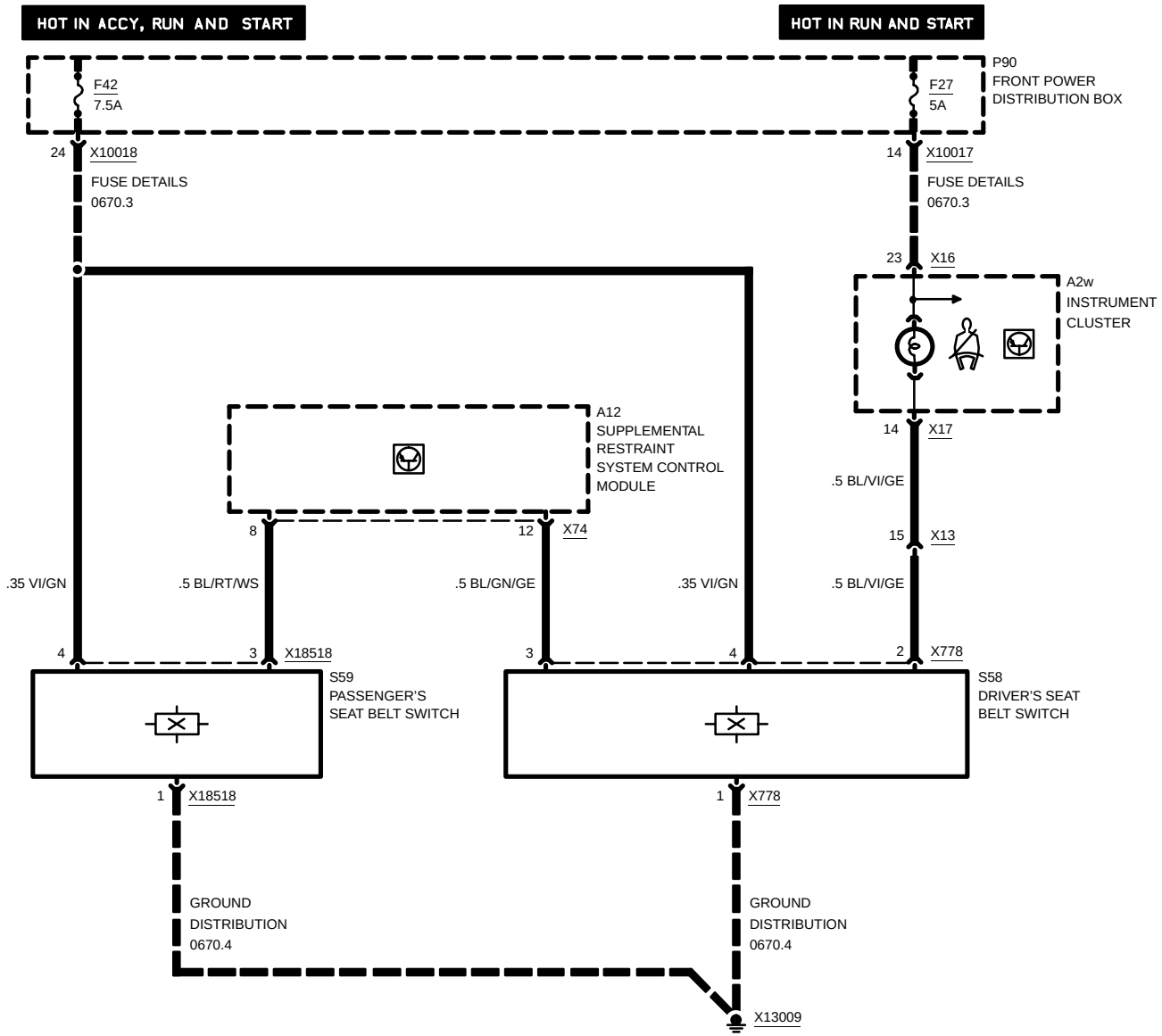
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



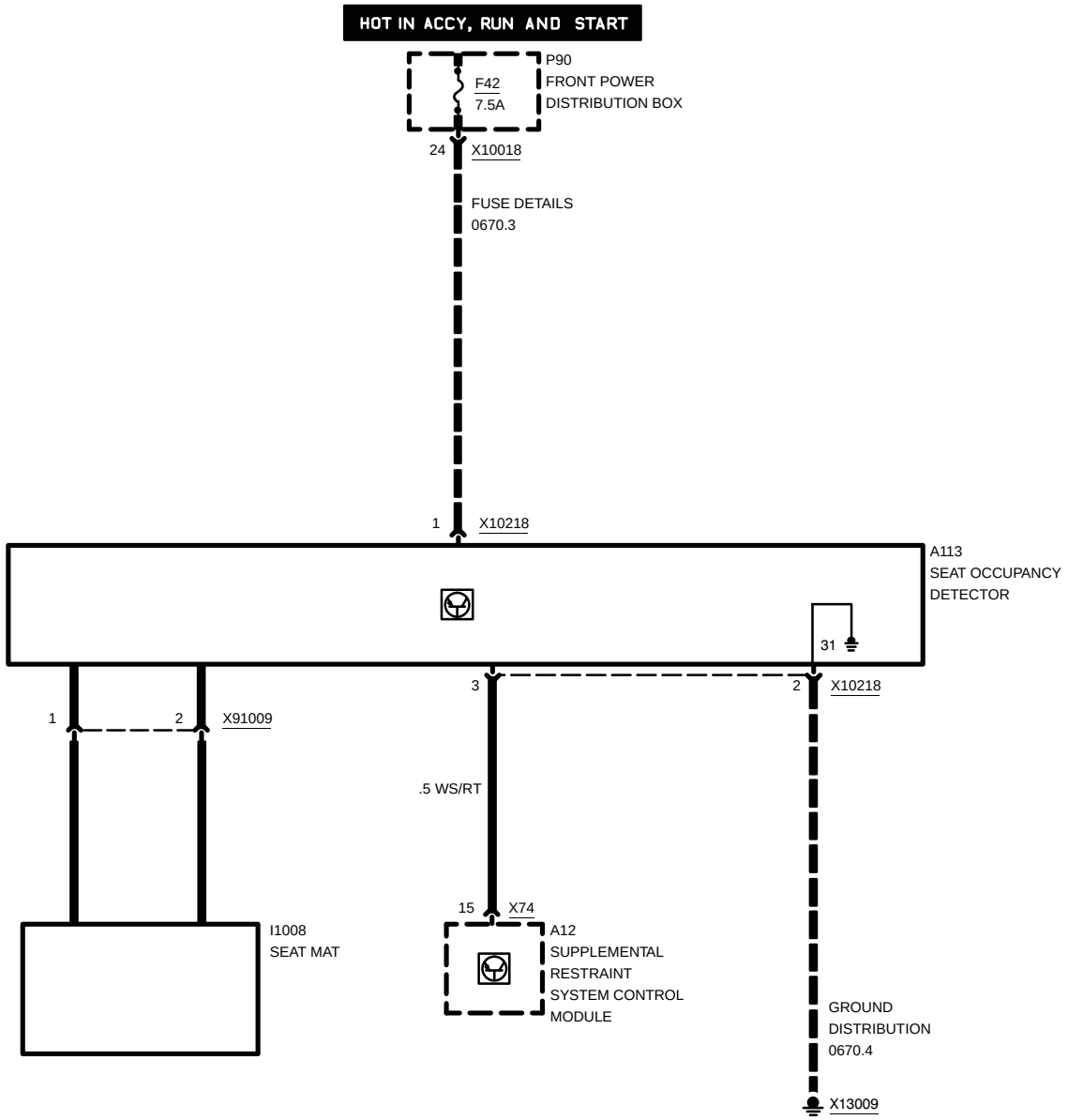
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



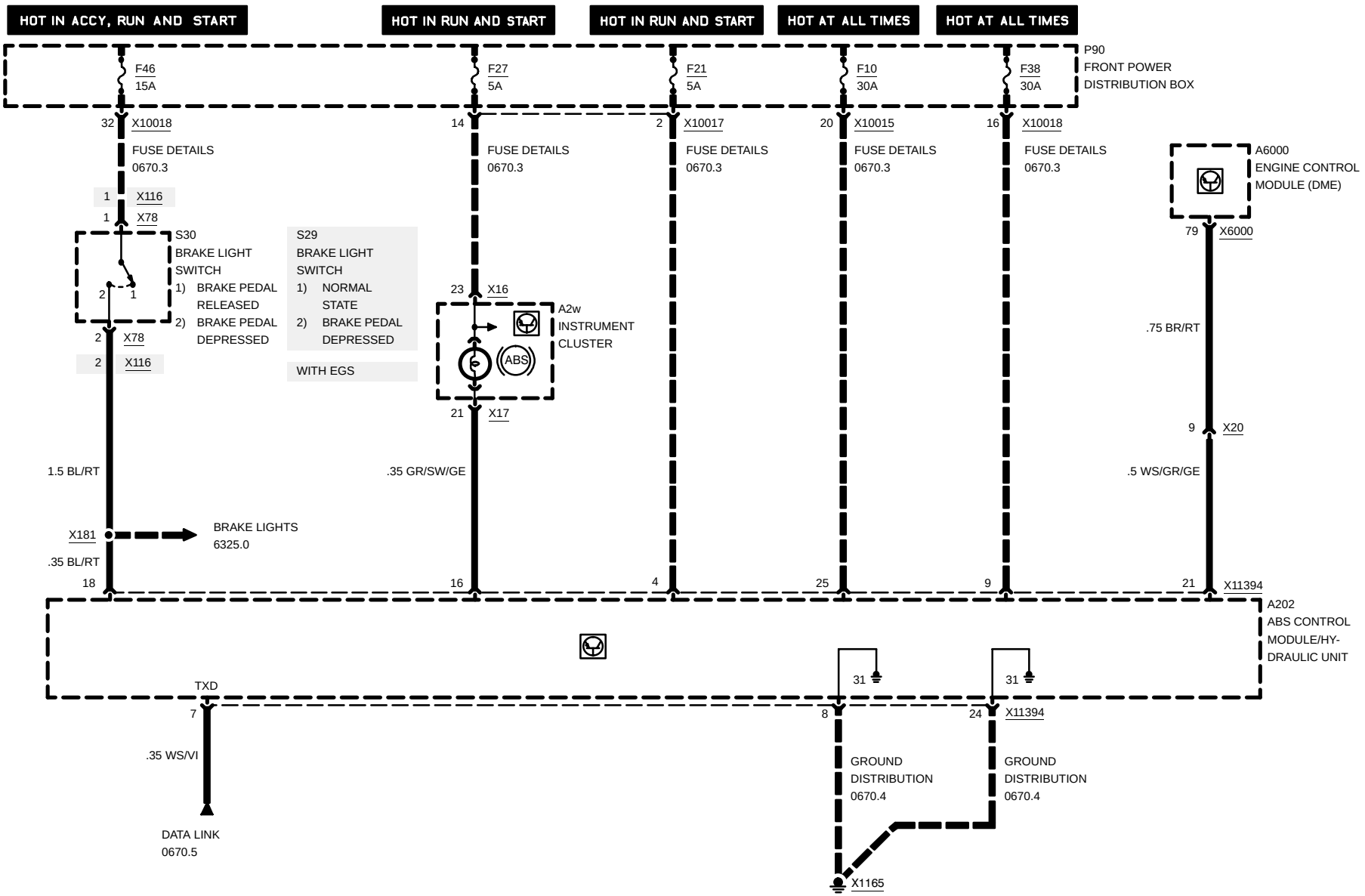
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



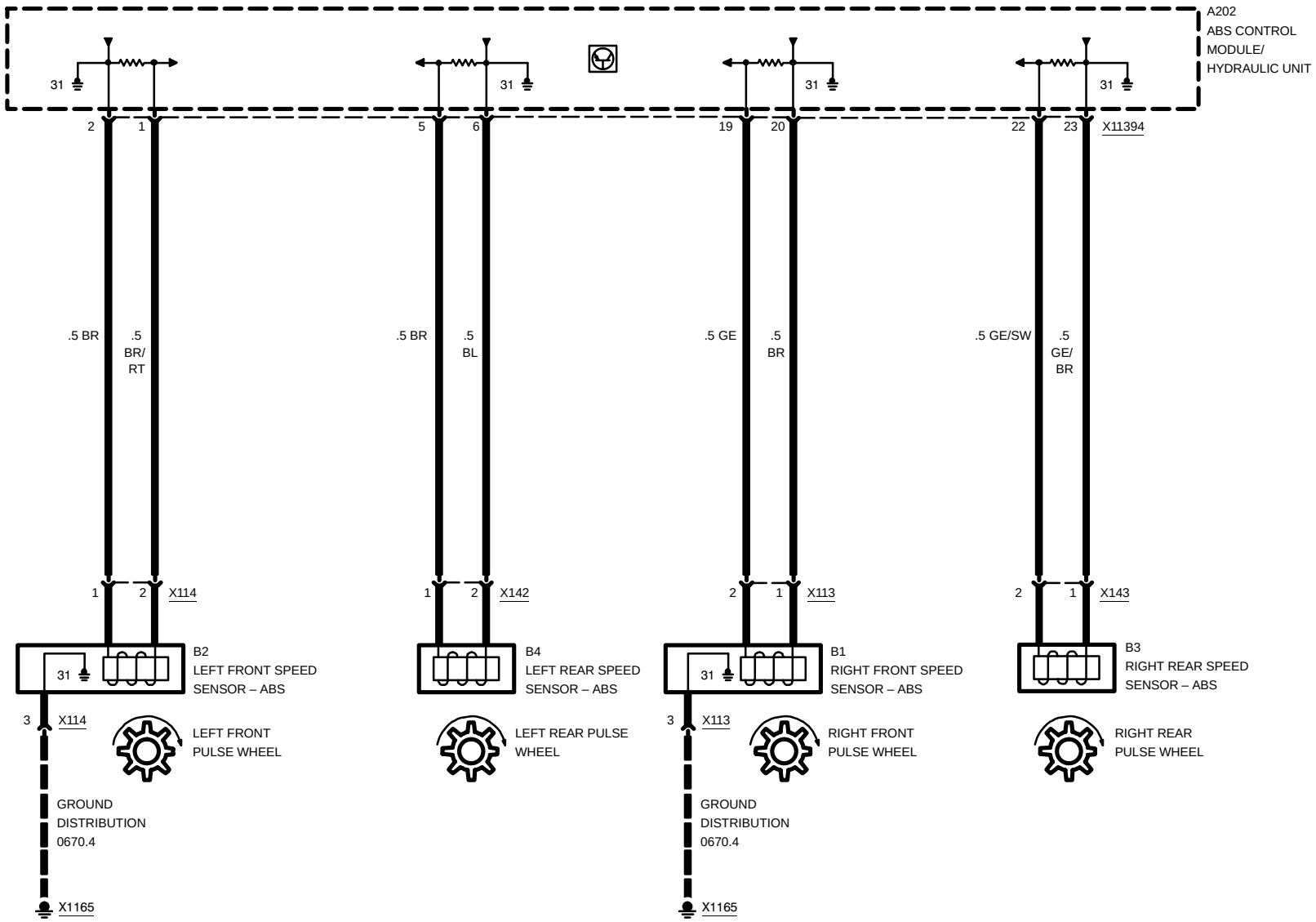
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



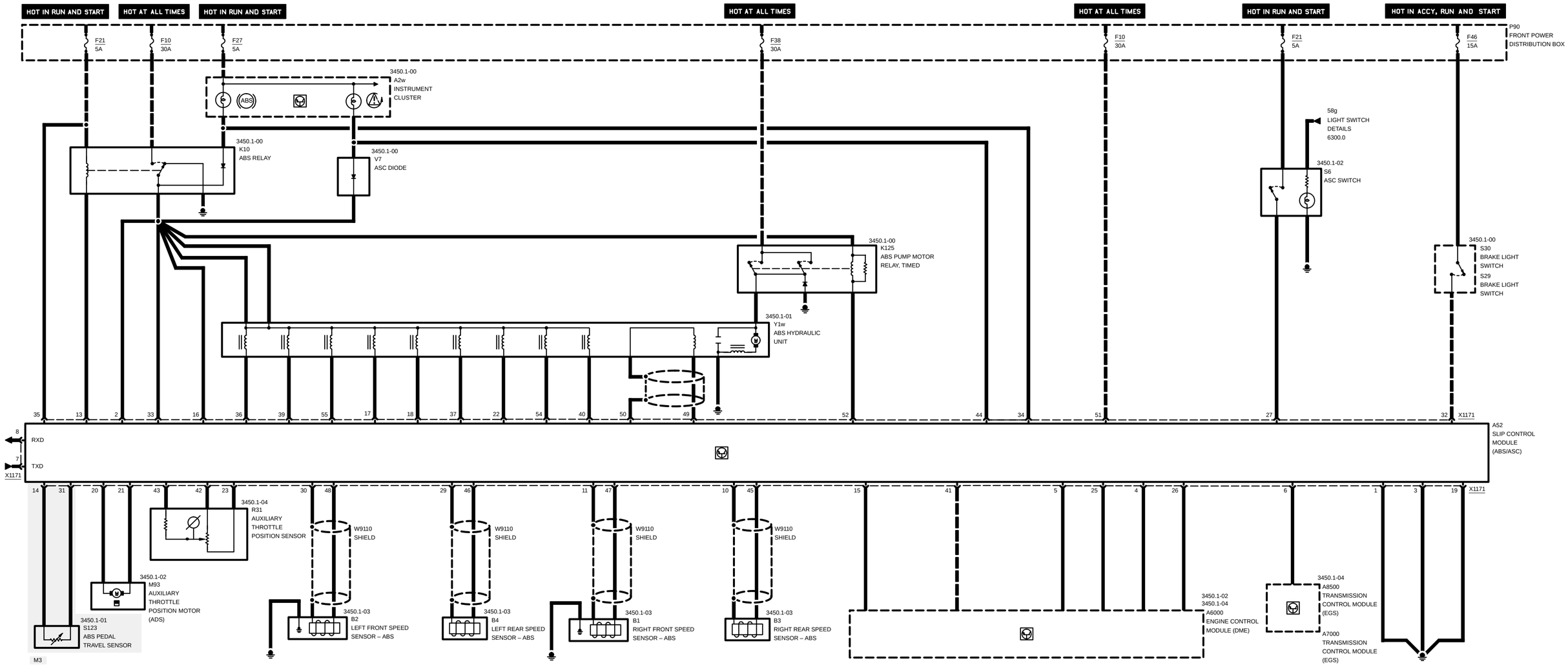
3450.0 SLIP CONTROL (ABS)



SLIP CONTROL (ABS)

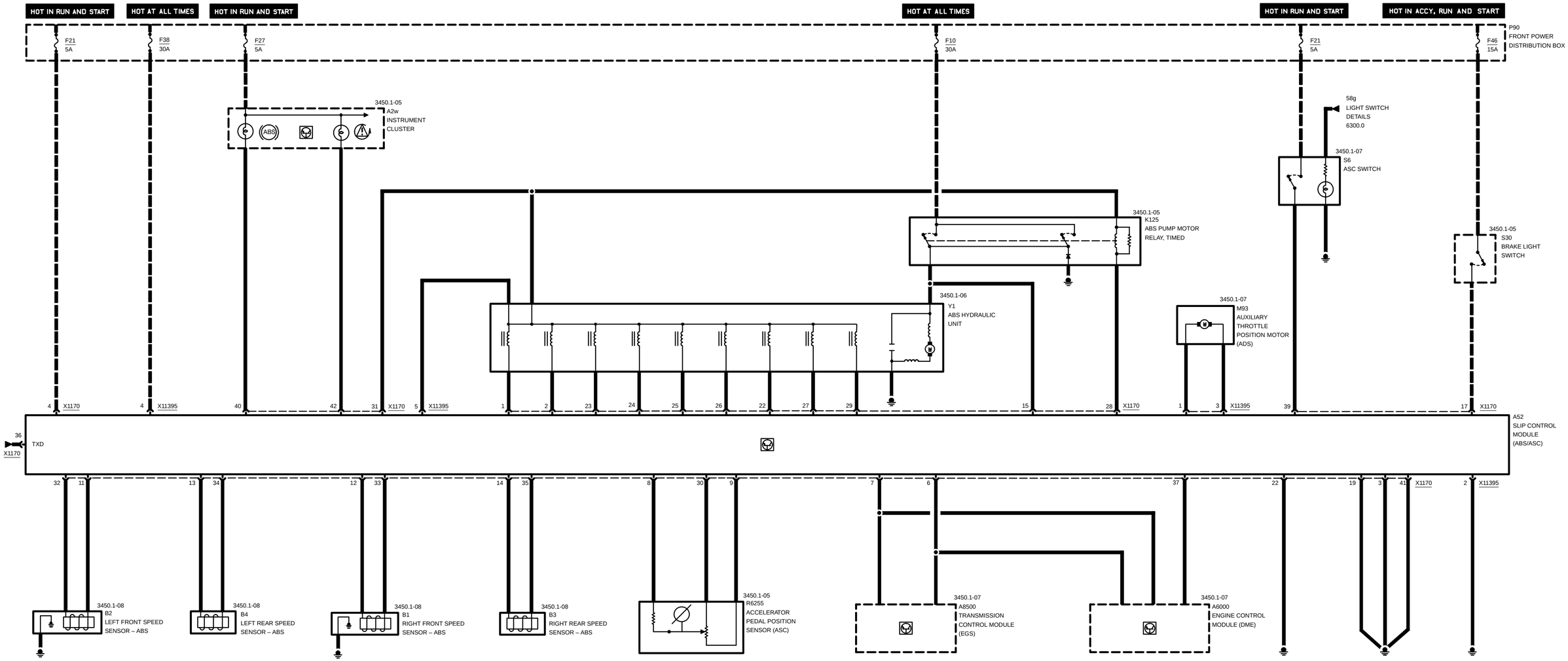


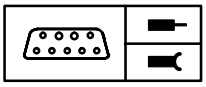
323i, 328i, M3


HOT IN RUN AND START
HOT AT ALL TIMES
HOT IN RUN AND START
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN ACCY, RUN AND START
F21 5A
F10 30A
F27 5A
F38 30A
F10 30A
F21 5A
F46 15A
P90 FRONT POWER DISTRIBUTION BOX
3450.1-00 A2w INSTRUMENT CLUSTER
ABS
3450.1-00 K10 ABS RELAY
3450.1-00 V7 ASC DIODE
58g LIGHT SWITCH DETAILS 6300.0
3450.1-02 S6 ASC SWITCH
3450.1-00 K125 ABS PUMP MOTOR RELAY, TIMED
3450.1-00 S30 BRAKE LIGHT SWITCH
S29 BRAKE LIGHT SWITCH
3450.1-01 Y1w ABS HYDRAULIC UNIT
35 13 2 33 16 36 39 55 17 18 37 22 54 40 50 49 52 44 34 51 27 32 X1171
8 RXD
7 TXD
X1171
A52 SLIP CONTROL MODULE (ABS/ASC)
14 31 20 21 43 42 23 30 48 29 46 11 47 10 45 15 41 5 25 4 26 6 1 3 19 X1171
3450.1-04 R31 AUXILIARY THROTTLE POSITION SENSOR
W9110 SHIELD
W9110 SHIELD
W9110 SHIELD
W9110 SHIELD
3450.1-02 M93 AUXILIARY THROTTLE POSITION MOTOR (ADS)
3450.1-01 S123 ABS PEDAL TRAVEL SENSOR
3450.1-03 B2 LEFT FRONT SPEED SENSOR – ABS
3450.1-03 B4 LEFT REAR SPEED SENSOR – ABS
3450.1-03 B1 RIGHT FRONT SPEED SENSOR – ABS
3450.1-03 B3 RIGHT REAR SPEED SENSOR – ABS
3450.1-02 3450.1-04 A6000 ENGINE CONTROL MODULE (DME)
3450.1-04 A8500 TRANSMISSION CONTROL MODULE (EGS)
A7000 TRANSMISSION CONTROL MODULE (EGS)
M3

SLIP CONTROL (ABS/ASC)

318is



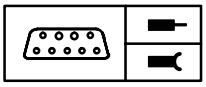


Pin Assignments (323i, 328i, M3)

X1171

Pin	Type	Description/Function	Connection
1	M	Ground	Ground
2	E	Battery voltage	ABS relay
3	M	Ground, module	Ground
4	E	Ignition cut-off signal	DME module
5	A	EML signal	DME module
6	A	Transmission influence	Transmission control module
7	E/A	TxD signal	Diagnostic link
8	A	RxD signal	Diagnostic link
9		Not used	
10	A	Sensor ground	Right rear speed sensor (ABS)
11	A	Sensor ground	Right front speed sensor (ABS)
12		Not used	
13	A	ABS power protection relay	ABS power protection relay
14	E	Pedal travel sensor	Pedal travel sensor
15	A	Right rear speed signal	DME module
16	E	Plus supply	ABS relay
17	A	Solenoid valve signal left rear inlet	ABS hydraulic unit
18	A	Solenoid valve signal left rear outlet	ABS hydraulic unit
19	M	Ground	Ground
20	A	ADS step motor (–)	ADS step motor
21	A	ADS step motor (+)	ADS step motor
22	A	Solenoid valve signal right front inlet	ABS hydraulic unit
23	E	ASC throttle flap potentiometer (–)	ASC throttle flap motor potentiometer
24		Not used	
25	E	Signal idle speed	DME module
26	A	Throttle flap position	DME module
27	E	ASC switch signal	ASC witch
28		Not used	
29	A	Sensor ground	Left rear speed sensor (ABS)
30	A	Sensor ground	Left front speed sensor (ABS)

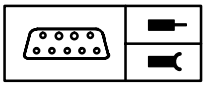
E = Input, A = Output, M = Ground



Pin Assignments (323i, 328i, M3)

Pin	Type	Description/Function	Connection
31	E	Pedal travel sensor	Pedal travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS relay
34	A	ABS lamp control	Instrument cluster
35	E	Ignition signal	Fuse 21
36	A	Separator valve	ABS hydraulic unit
37	A	Solenoid valve signal right front outlet	ABS hydraulic unit
38		Not used	
39	A	Right rear inlet valve	ABS hydraulic unit
40	A	Solenoid valve signal left front inlet	ABS hydraulic unit
41	E	Speed signal	DME module
42	E	ASC throttle flap potentiometer (+)	ASC throttle flap potentiometer
43	E	ASC throttle flap signal	ASC throttle flap potentiometer
44	A	ASC lamp control	Instrument cluster
45	E	Right rear speed sensor signal	Right rear speed sensor
46	E	Left rear speed sensor signal	Left rear speed sensor
47	E	Right front speed sensor signal	Right front speed sensor
48	E	Left front speed sensor signal	Left front speed sensor
49	E	Pump motor sensor signal	ABS hydraulic unit
50	E	Shield pump motor sensor	ABS hydraulic unit
51	E	Plus supply	Front power distribution box
52	A	ABS pump motor relay	ABS pump motor relay
53		Not used	
54	A	Solenoid valve signal left front outlet	ABS hydraulic unit
55	A	Right rear outlet valve	ABS hydraulic unit

E = Input, A = Output, M = Ground

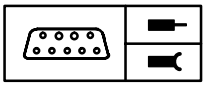


Pin Assignments (318is)

X1170

Pin	Type	Description/Function	Connection
56	A	Right rear inlet valve	ABS hydraulic unit
57	A	Separator valve	ABS hydraulic unit
58	M	Ground	Ground point
59	E	Voltage supply	Fuse 21
60		Not used	
61	E/A	Can Low	DME/EGS module
62	E/A	Can High	DME/EGS module
63	E	ASC throttle flap signal	Accelerator pedal position sensor
64	E	ASC throttle flap potentiometer (–)	Accelerator pedal position sensor
65		Not used	
66	A	Sensor ground	Left front speed sensor (ABS)
67	A	Sensor ground	Right front speed sensor (ABS)
68	A	Sensor ground	Left rear speed sensor (ABS)
69	A	Sensor ground	Right rear speed sensor (ABS)
70	E	Pump motor signal	ABS pump motor relay
71		Not used	
72	E	Brake pedal position	Brake light switch
73		Not used	
74	M	Ground	Ground point
75		Not used	
76		Not used	
77	A	Left front outlet valve	ABS hydraulic unit
78	A	Right rear outlet valve	ABS hydraulic unit
79	A	Left rear inlet valve	ABS hydraulic unit
80	A	Left rear outlet valve	ABS hydraulic unit
81	A	Right front outlet valve	ABS hydraulic unit
82	A	Right front inlet valve	ABS hydraulic unit
83	A	Activate relay	ABS pump motor relay
84	A	Left front inlet valve	ABS hydraulic unit
85	E	ASC throttle flap potentiometer (+)	Accelerator pedal position sensor

E = Input, A = Output, M = Ground



Pin Assignments (318is)

Pin	Type	Description/Function	Connection
86	A	ABS signal	ABS pump motor relay/Hydraulic unit
87	E	Speed signal	Left front speed sensor (ABS)
88	E	Speed signal	Right front speed sensor (ABS)
89	E	Speed signal	Left rear speed sensor (ABS)
90	E	Speed signal	Right rear speed sensor (ABS)
91	E/A	TxD diagnostic data link	Data link connector
92	A	Right rear speed signal	DME module
93		Not used	
94	E	ASC signal	ASC switch
95	E	Slip control system warning lamp	Slip control module (ASC)
96	M	Ground	Ground point
97	A	ASC signal	Instrument cluster

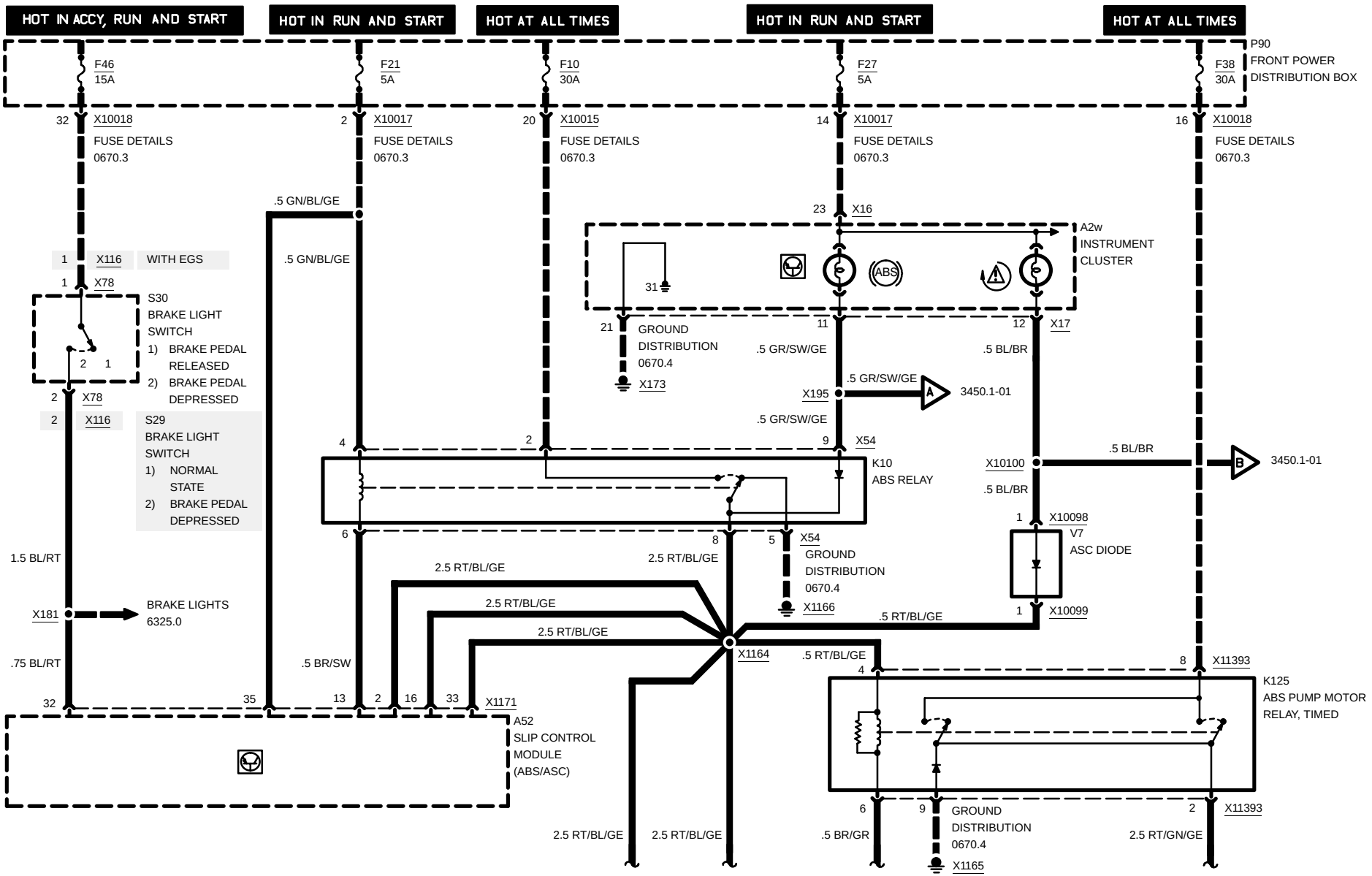
X11395

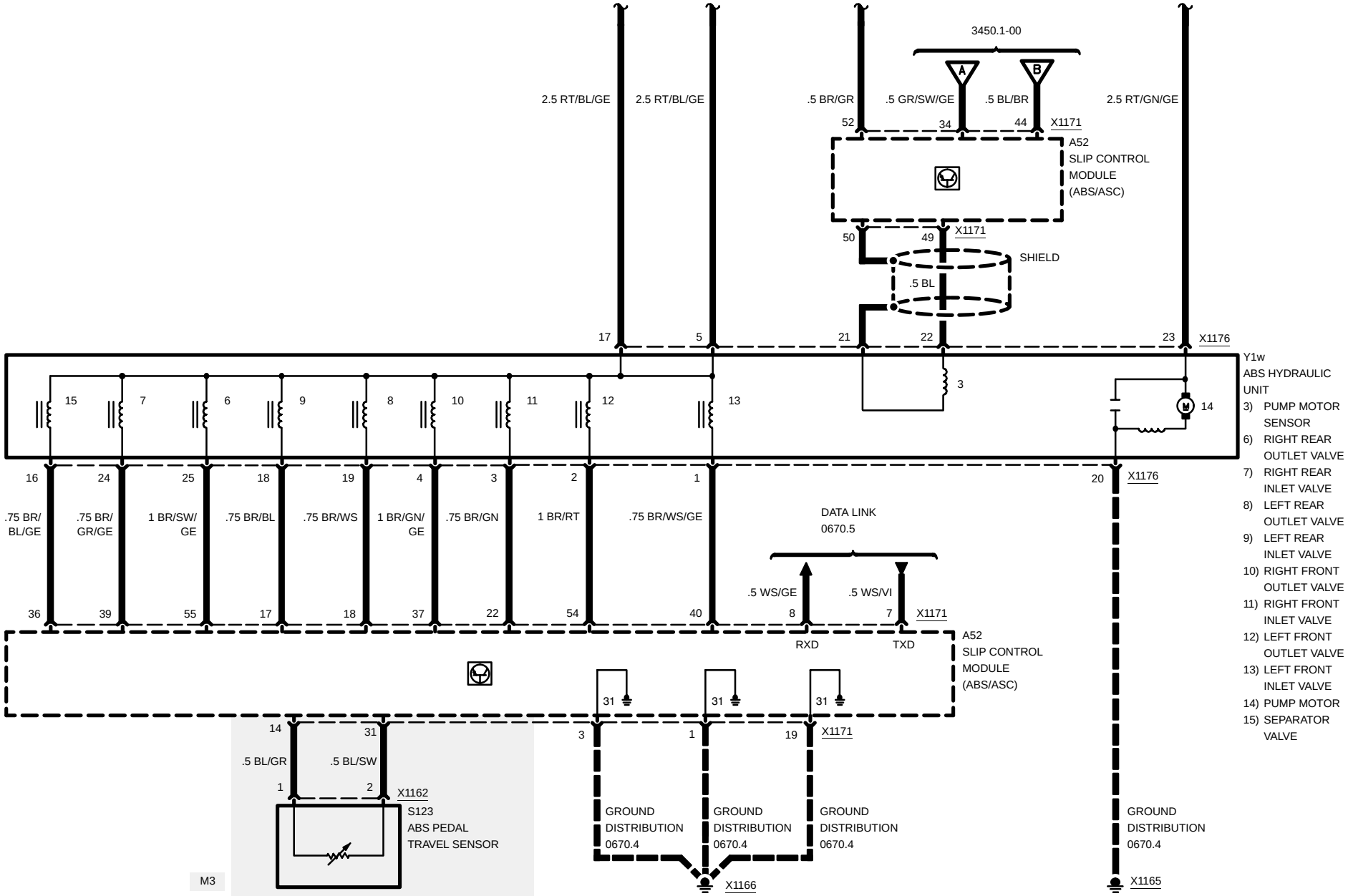
Pin	Type	Description/Function	Connection
1	A	ADS step motor (+)	ADS step motor
2	M	Ground	Ground point
3	A	ADS step motor (–)	ADS step motor
4	E	Voltage supply	Fuse 38
5	A	ABS signal	ABS hydraulic unit

E = Input, A = Output, M = Ground

SLIP CONTROL (ABS/ASC)

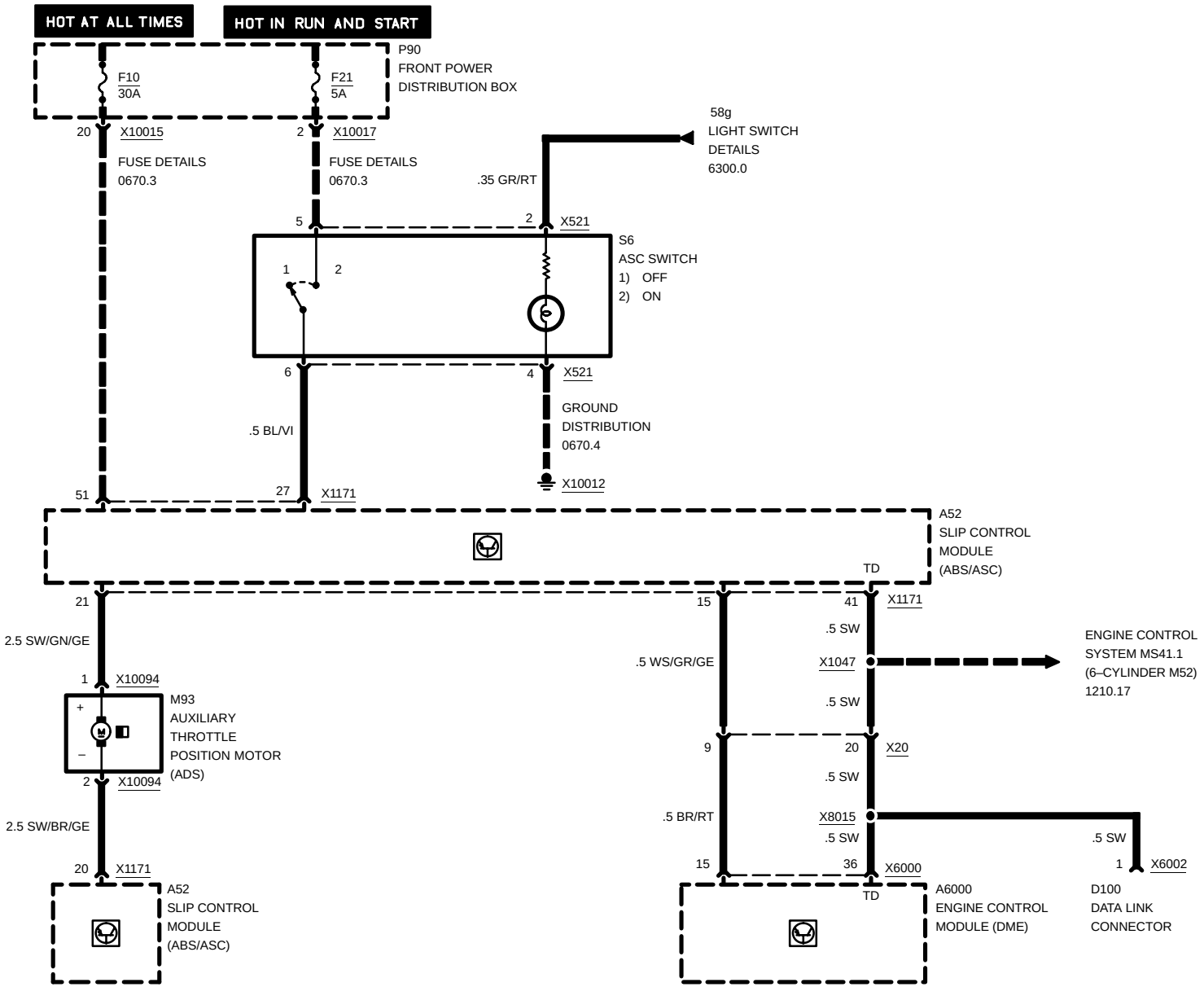
323i, 328i, M3

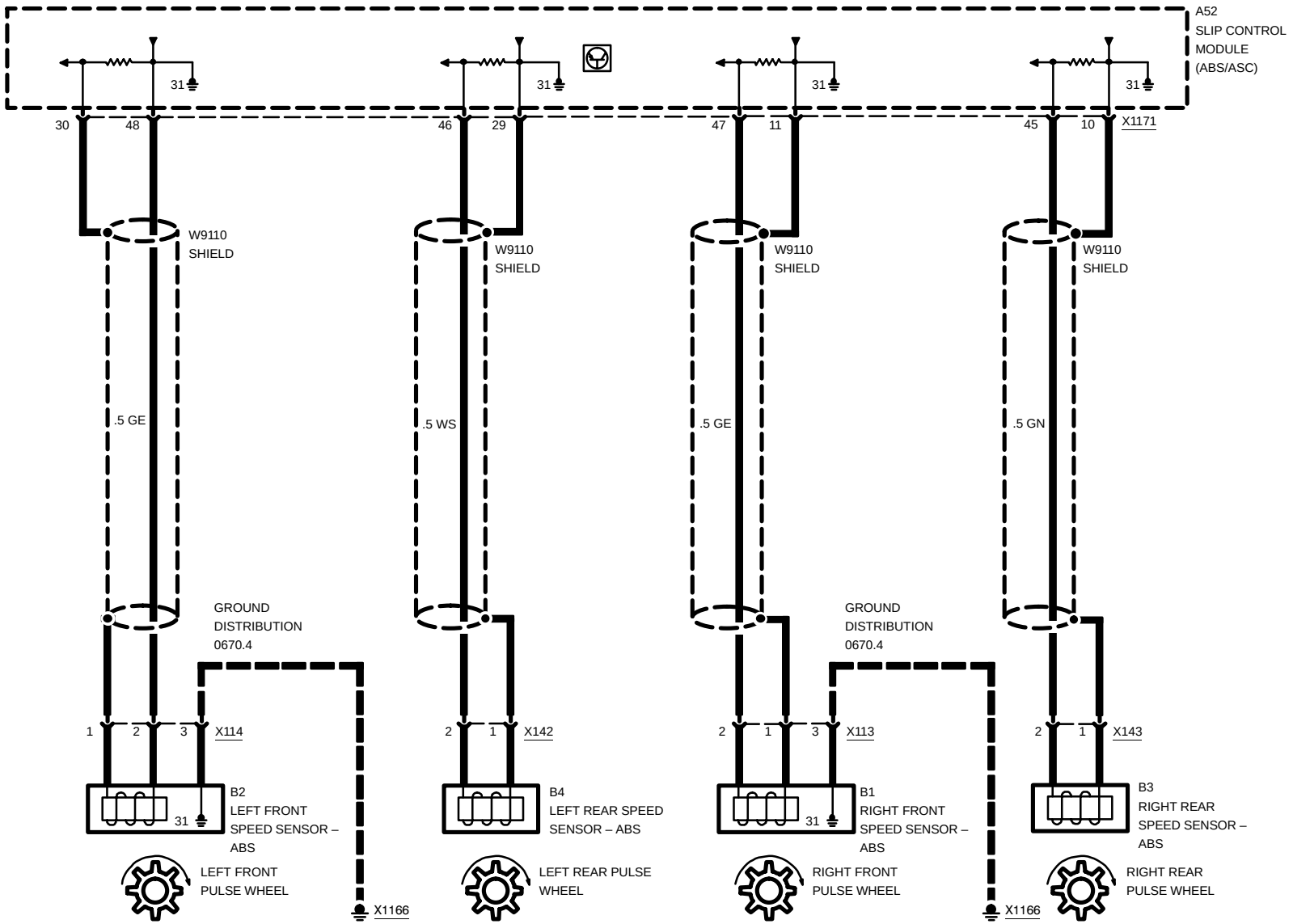



3450.1-00
A
B
2.5 RT/BL/GE
2.5 RT/BL/GE
.5 BR/GR
.5 GR/SW/GE
.5 BL/BR
2.5 RT/GN/GE
52
34
44
X1171
A52
SLIP CONTROL
MODULE
(ABS/ASC)
50
49
X1171
SHIELD
.5 BL
17
5
21
22
23
X1176
Y1w
ABS HYDRAULIC
UNIT
3) PUMP MOTOR
SENSOR
6) RIGHT REAR
OUTLET VALVE
7) RIGHT REAR
INLET VALVE
8) LEFT REAR
OUTLET VALVE
9) LEFT REAR
INLET VALVE
10) RIGHT FRONT
OUTLET VALVE
11) RIGHT FRONT
INLET VALVE
12) LEFT FRONT
OUTLET VALVE
13) LEFT FRONT
INLET VALVE
14) PUMP MOTOR
15) SEPARATOR
VALVE
15
7
6
9
8
10
11
12
13
3
14
16
24
25
18
19
4
3
2
1
20
X1176
.75 BR/
BL/GE
.75 BR/
GR/GE
1 BR/SW/
GE
.75 BR/BL
.75 BR/WS
1 BR/GN/
GE
.75 BR/GN
1 BR/RT
.75 BR/WS/GE
DATA LINK
0670.5
.5 WS/GE
.5 WS/VI
36
39
55
17
18
37
22
54
40
8
7
X1171
RXD
TXD
A52
SLIP CONTROL
MODULE
(ABS/ASC)
31
31
31
14
31
3
1
19
X1171
.5 BL/GR
.5 BL/SW
1
2
X1162
S123
ABS PEDAL
TRAVEL SENSOR
M3
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X1166
X1165

SLIP CONTROL (ABS/ASC)

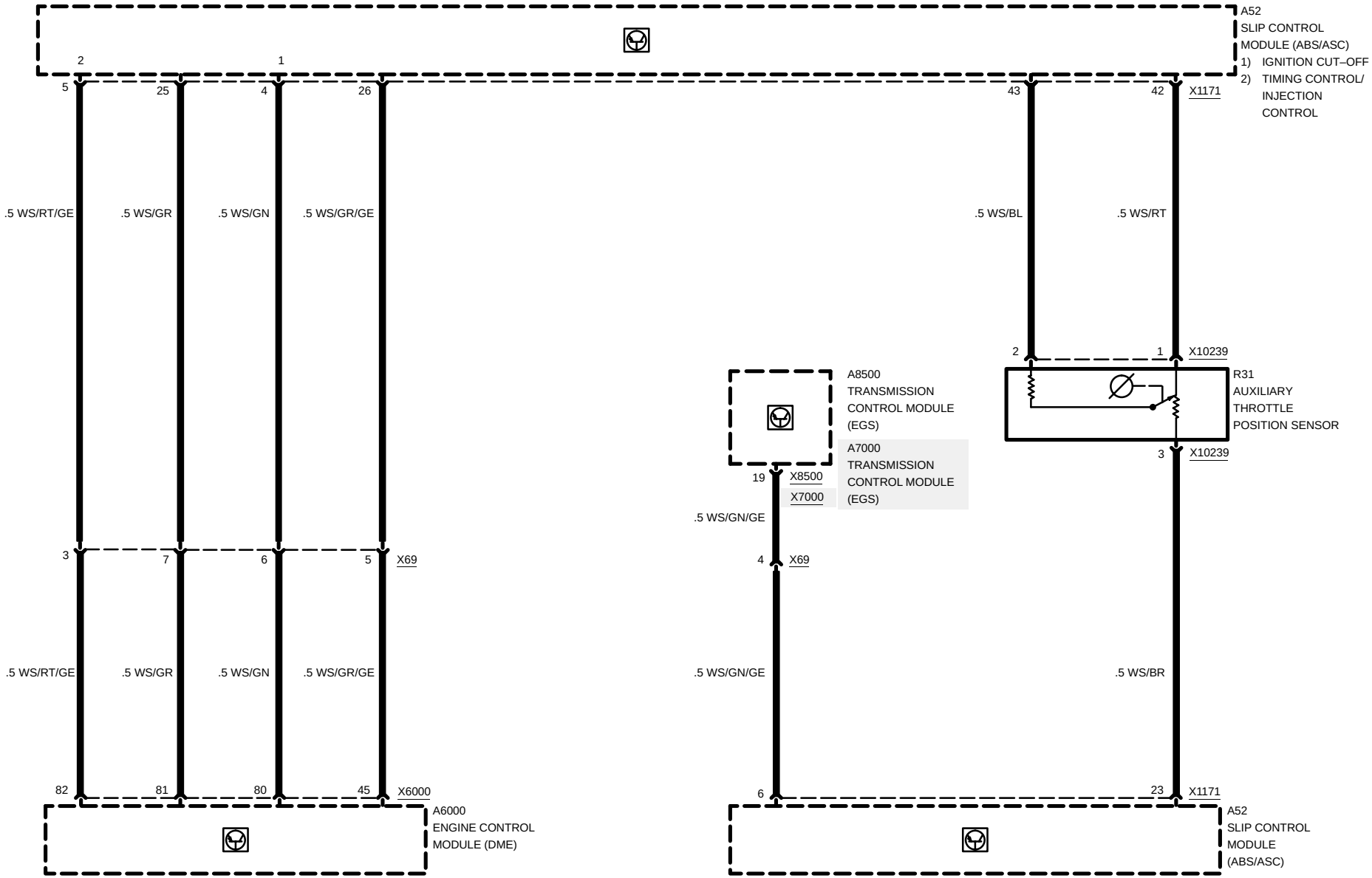
323i, 328i, M3




A52
SLIP CONTROL
MODULE
(ABS/ASC)
30
48
46
29
47
11
45
10
X1171
31
W9110
SHIELD
.5 GE
.5 WS
.5 GE
.5 GN
GROUND
DISTRIBUTION
0670.4
1
2
3
X114
X142
X113
X143
B2
LEFT FRONT
SPEED SENSOR –
ABS
B4
LEFT REAR SPEED
SENSOR – ABS
B1
RIGHT FRONT
SPEED SENSOR –
ABS
B3
RIGHT REAR
SPEED SENSOR –
ABS
LEFT FRONT
PULSE WHEEL
LEFT REAR PULSE
WHEEL
RIGHT FRONT
PULSE WHEEL
RIGHT REAR
PULSE WHEEL
X1166

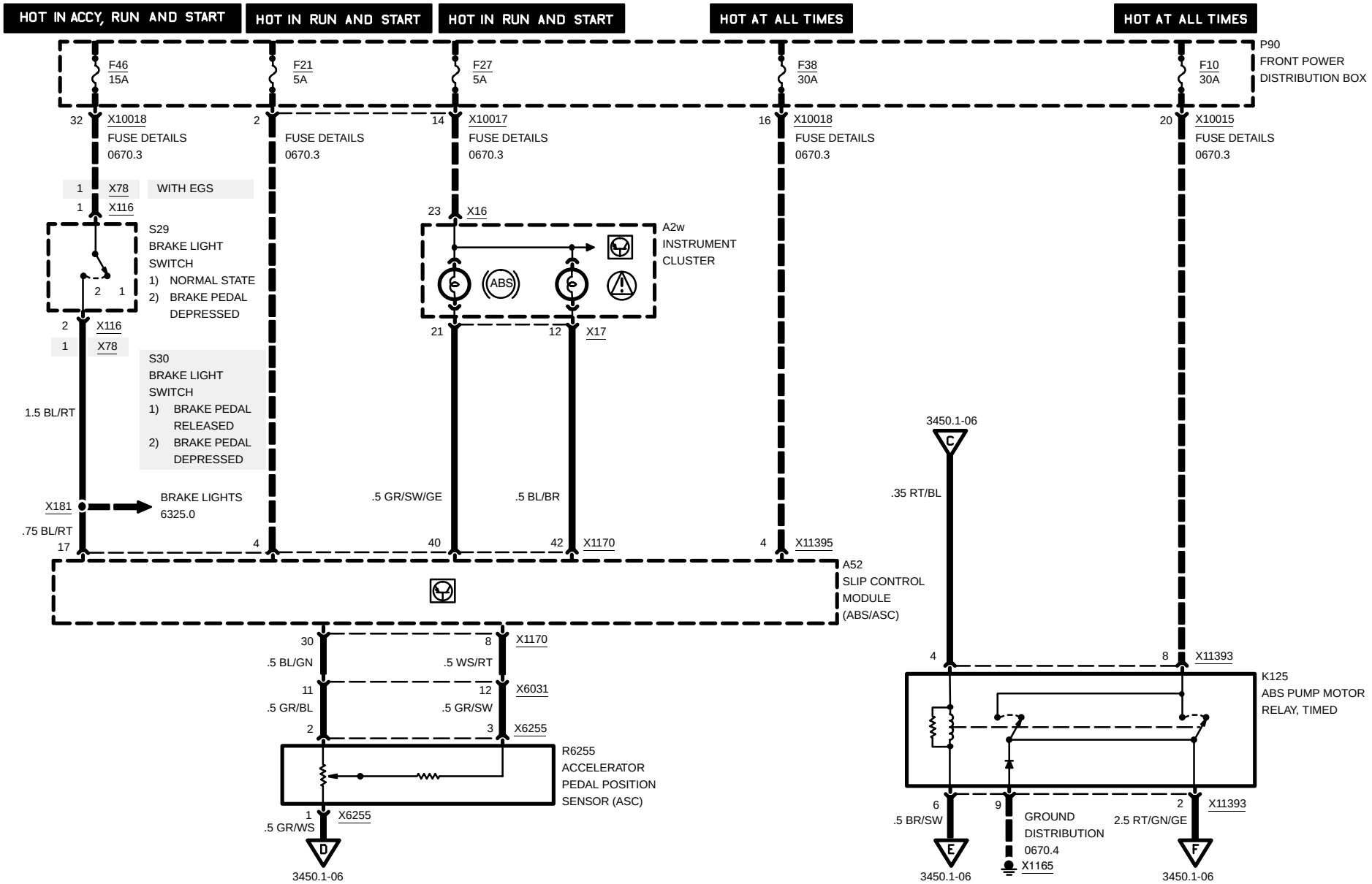
SLIP CONTROL (ABS/ASC)

323i, 328i, M3



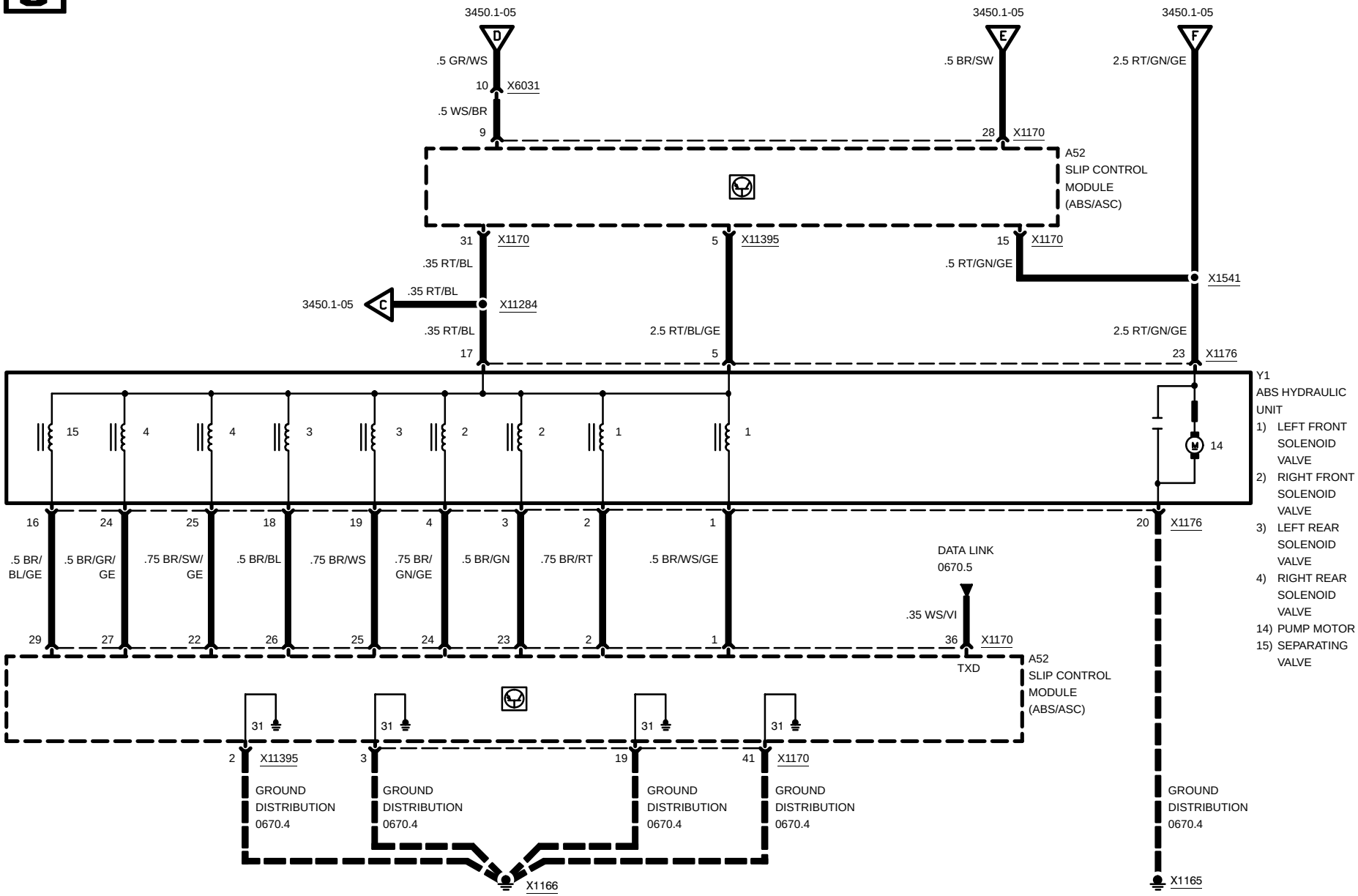
SLIP CONTROL (ABS/ASC)

318is



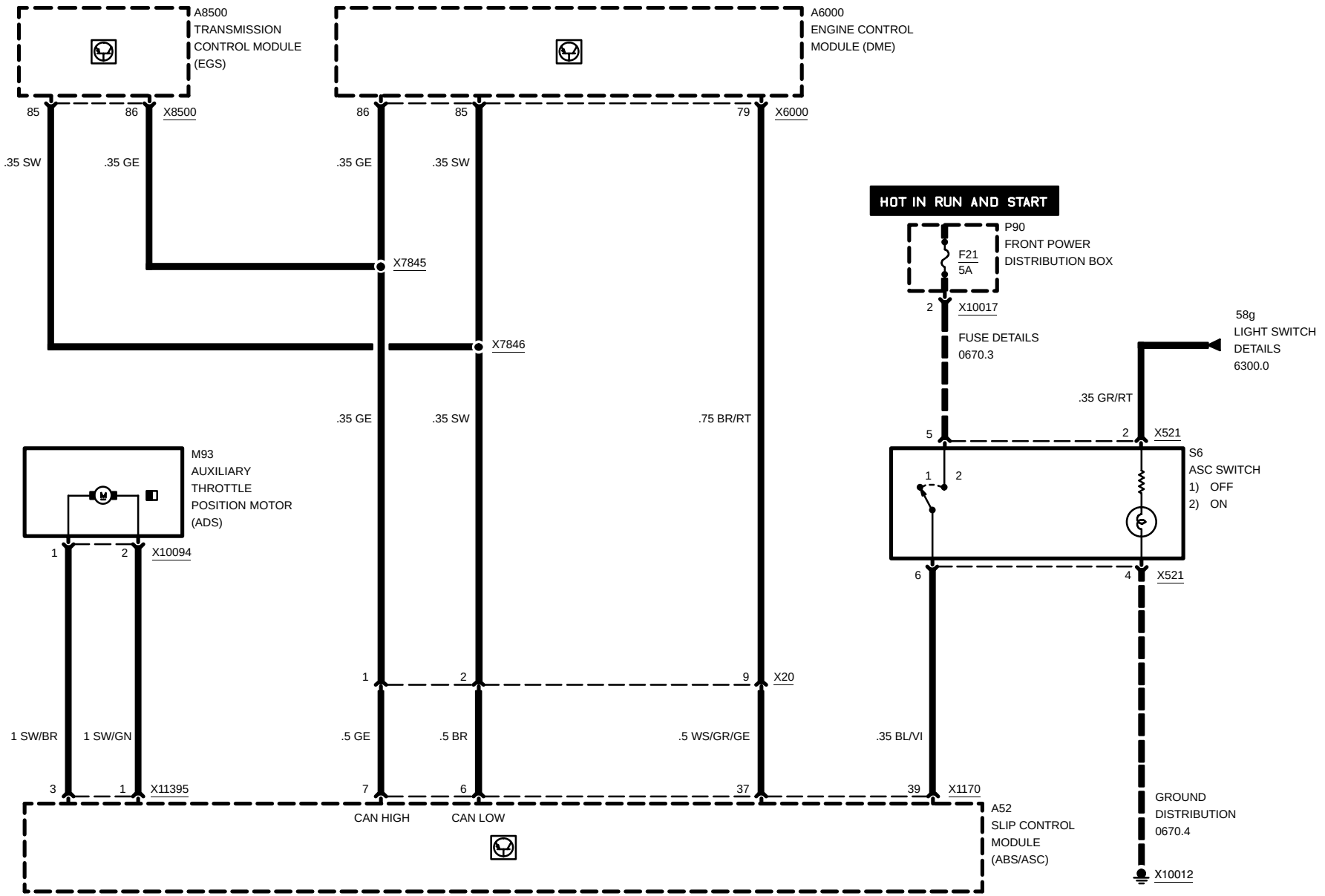
SLIP CONTROL (ABS/ASC)

318is



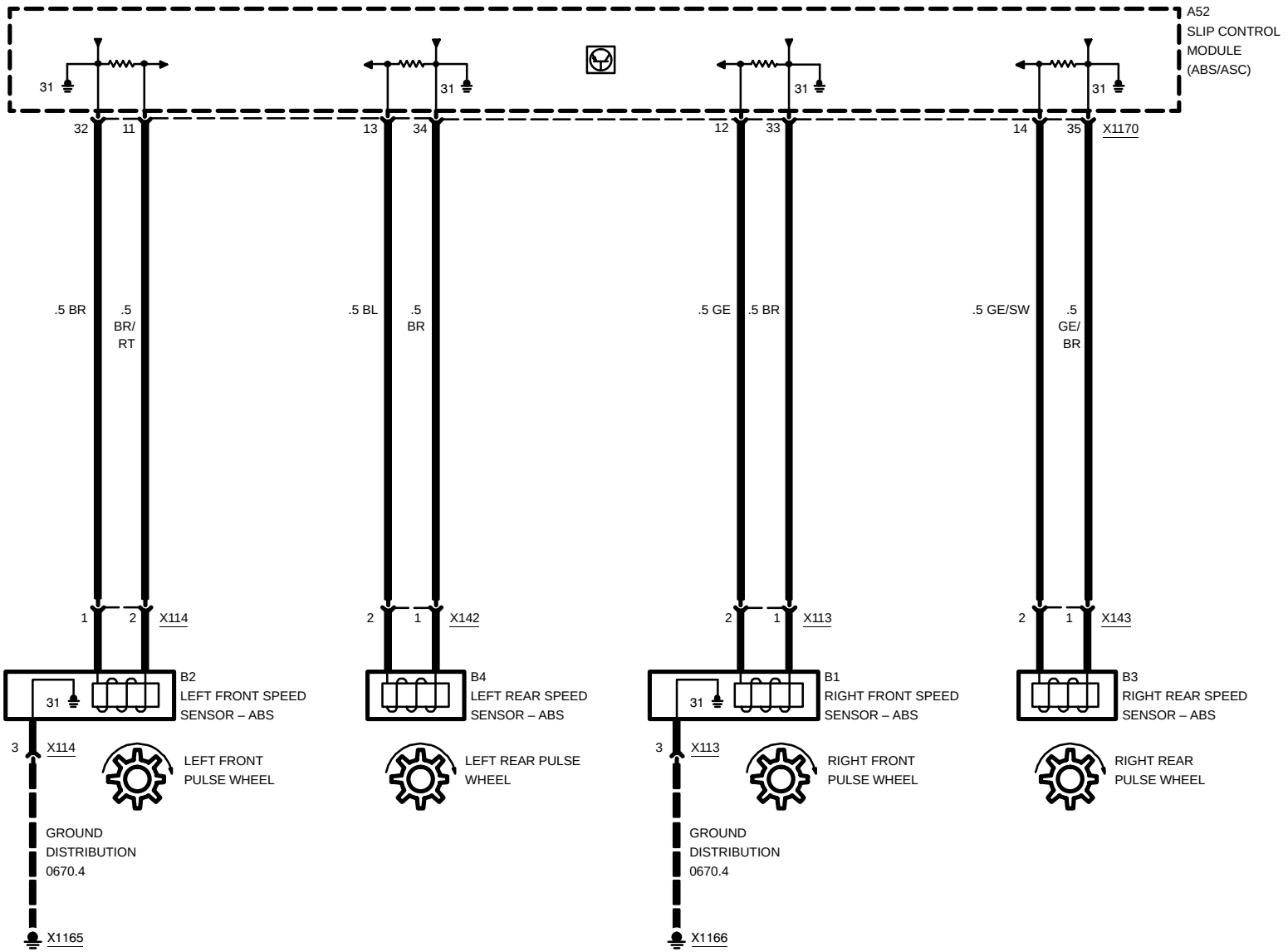
SLIP CONTROL (ABS/ASC)

318is



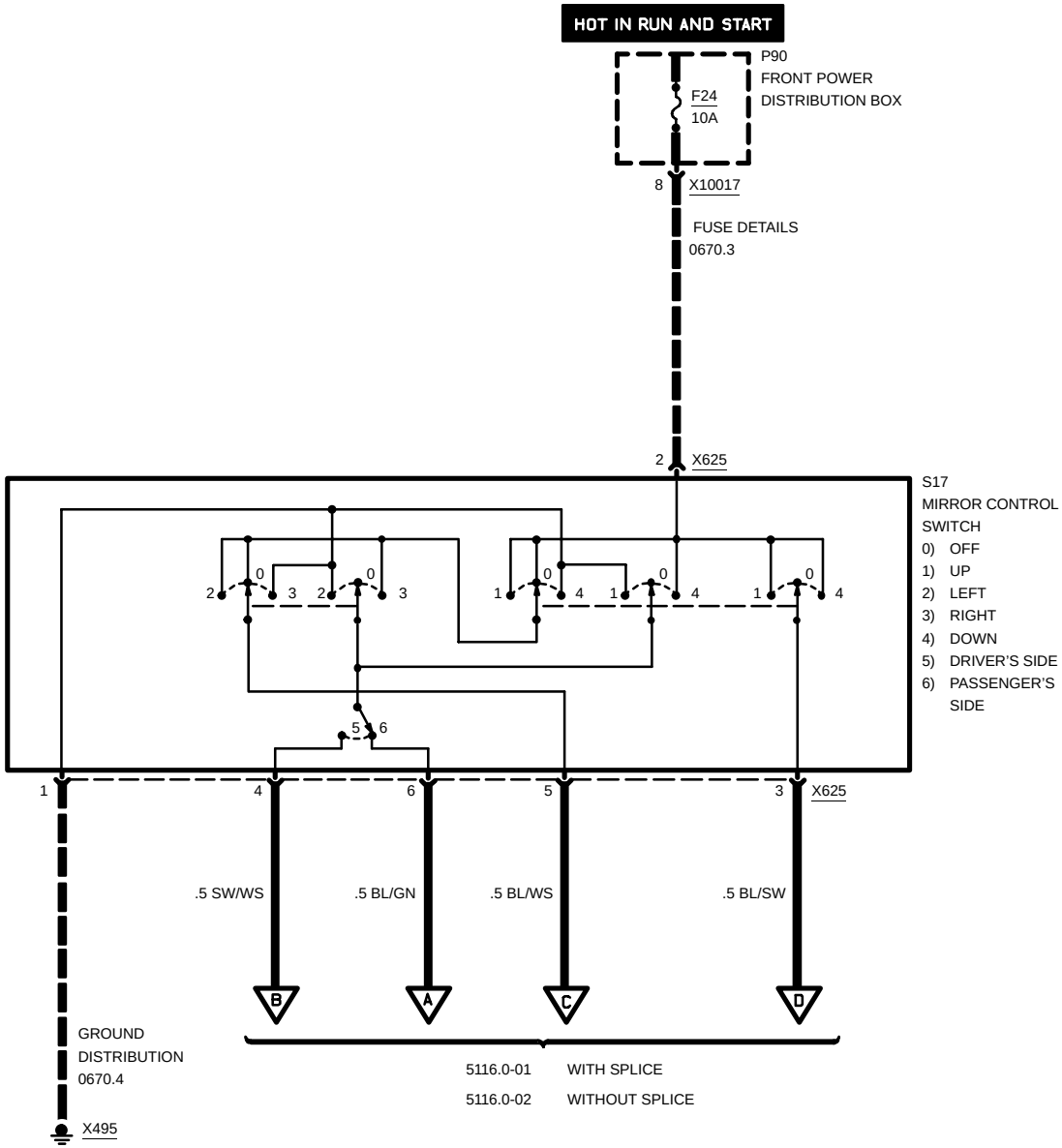
SLIP CONTROL (ABS/ASC)

318is



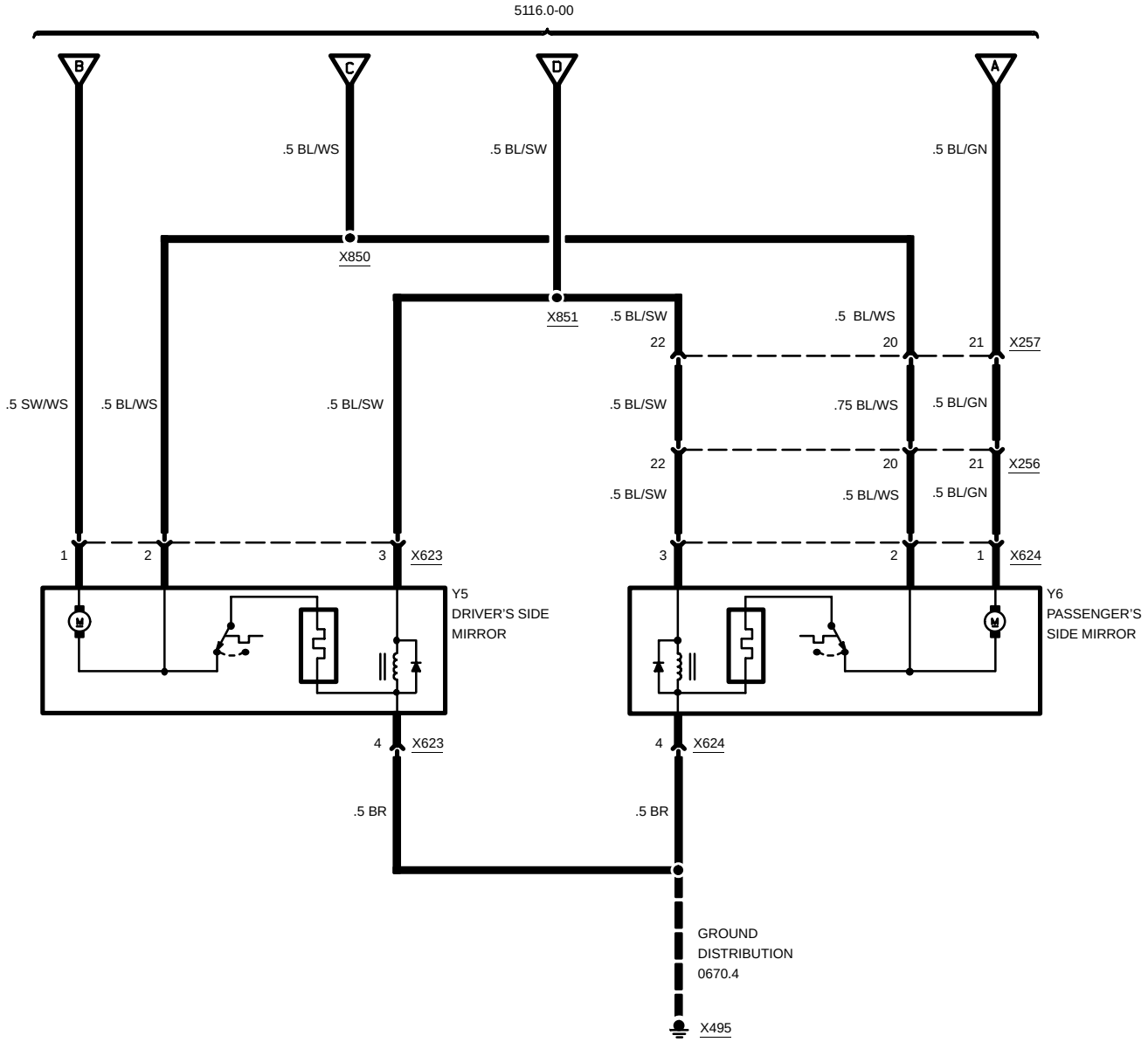
5116.0 POWER MIRRORS

OUTSIDE MIRROR



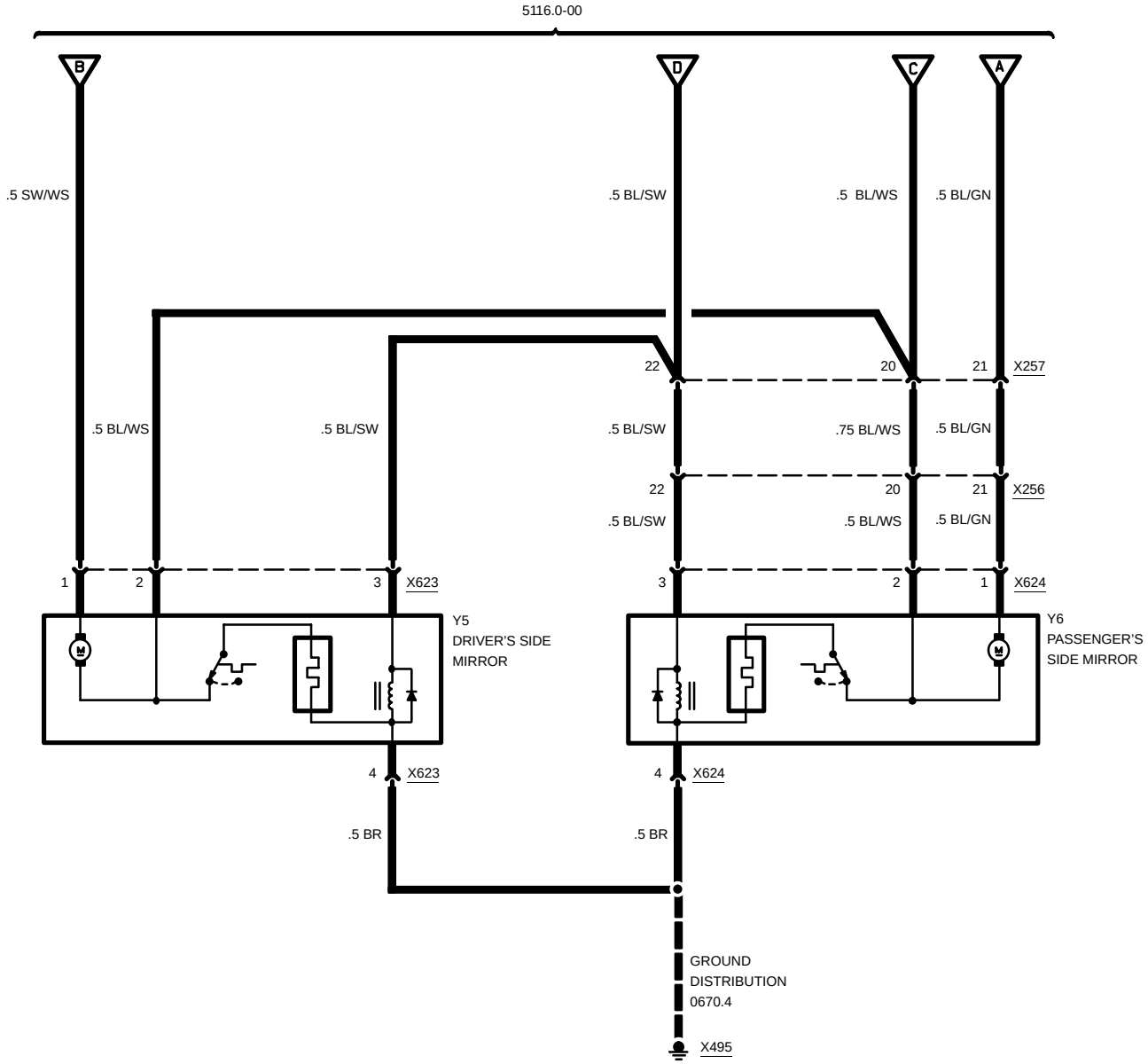
POWER MIRRORS

WITH SPLICE

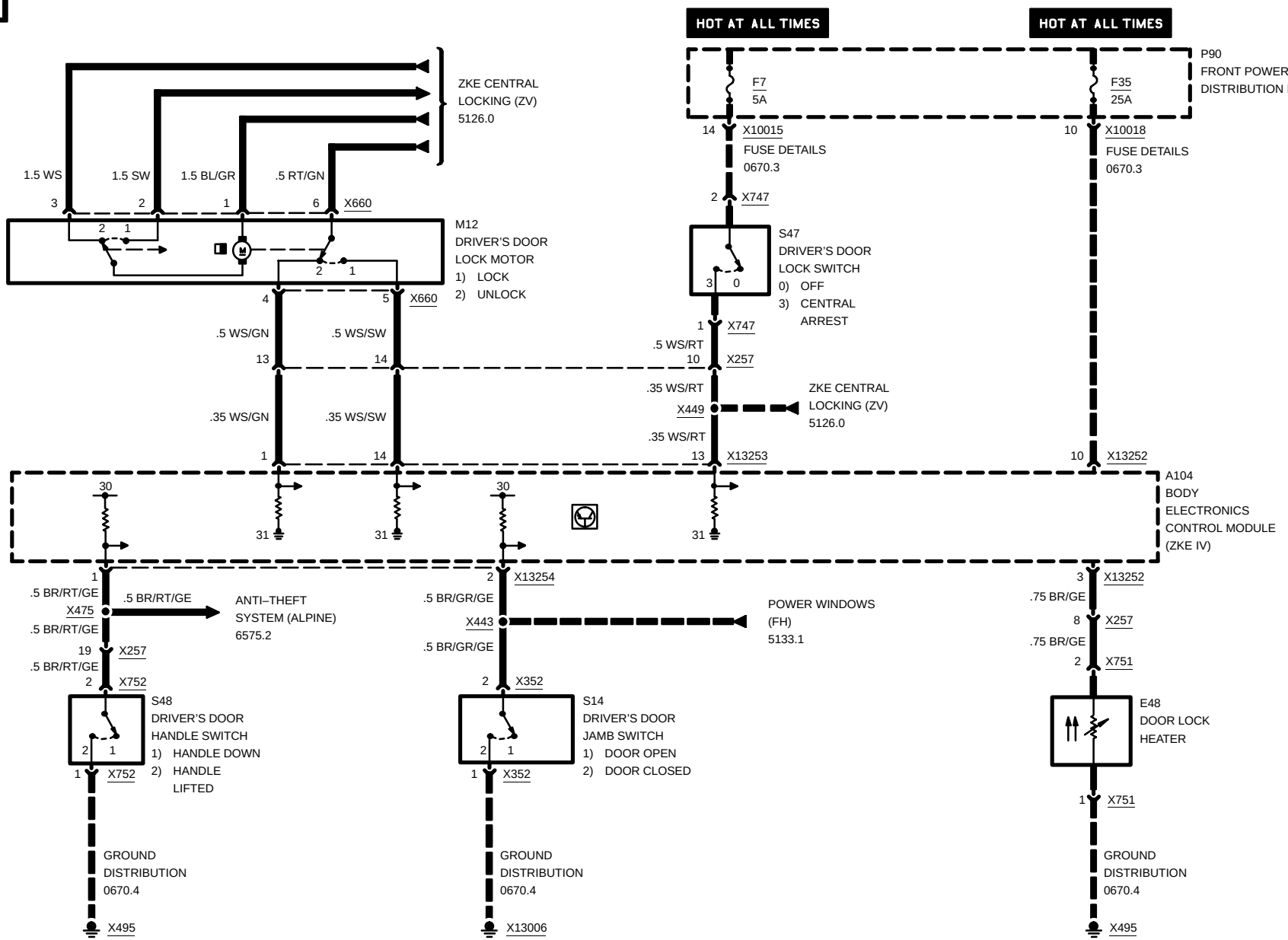


POWER MIRRORS

WITHOUT SPLICE

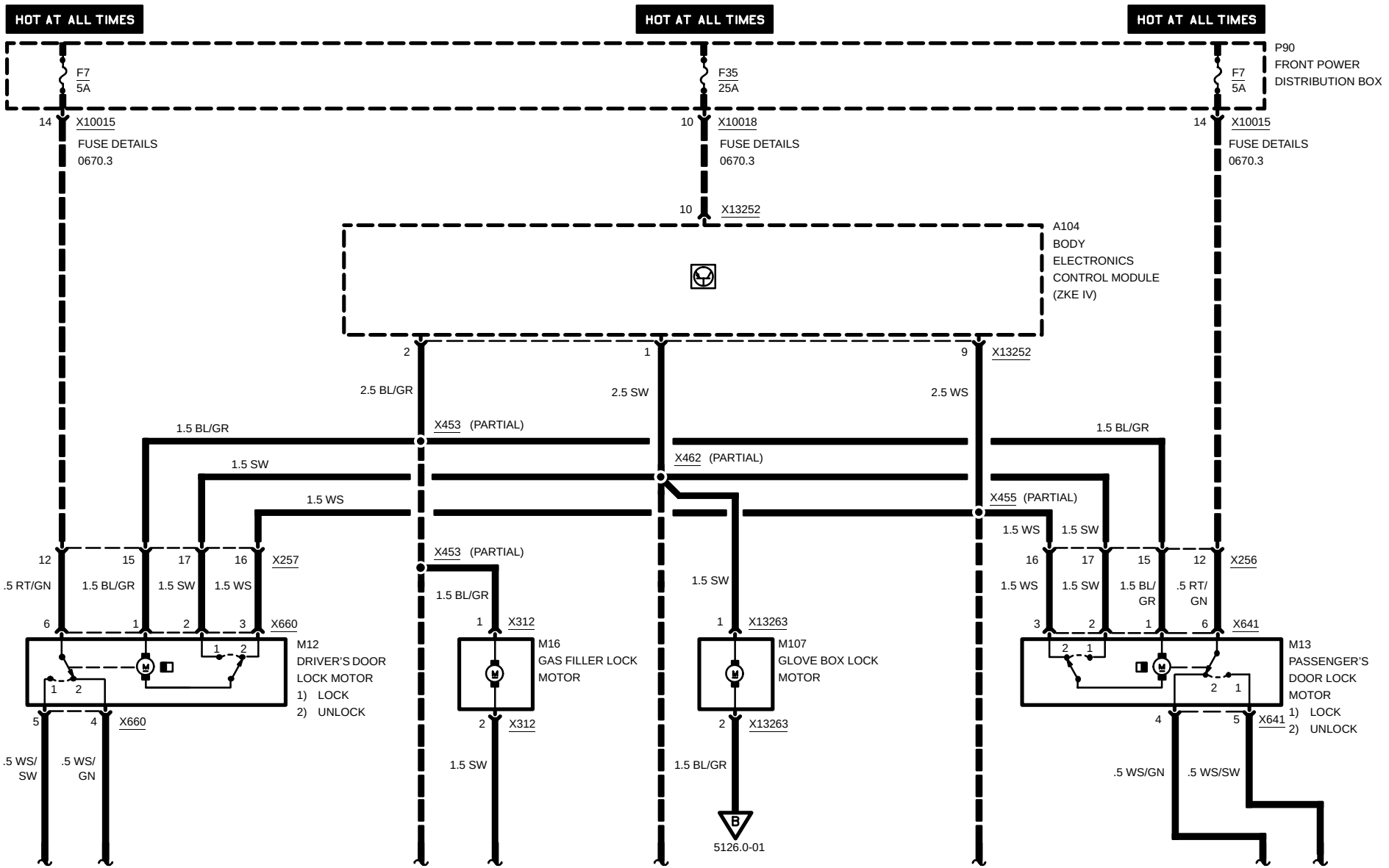


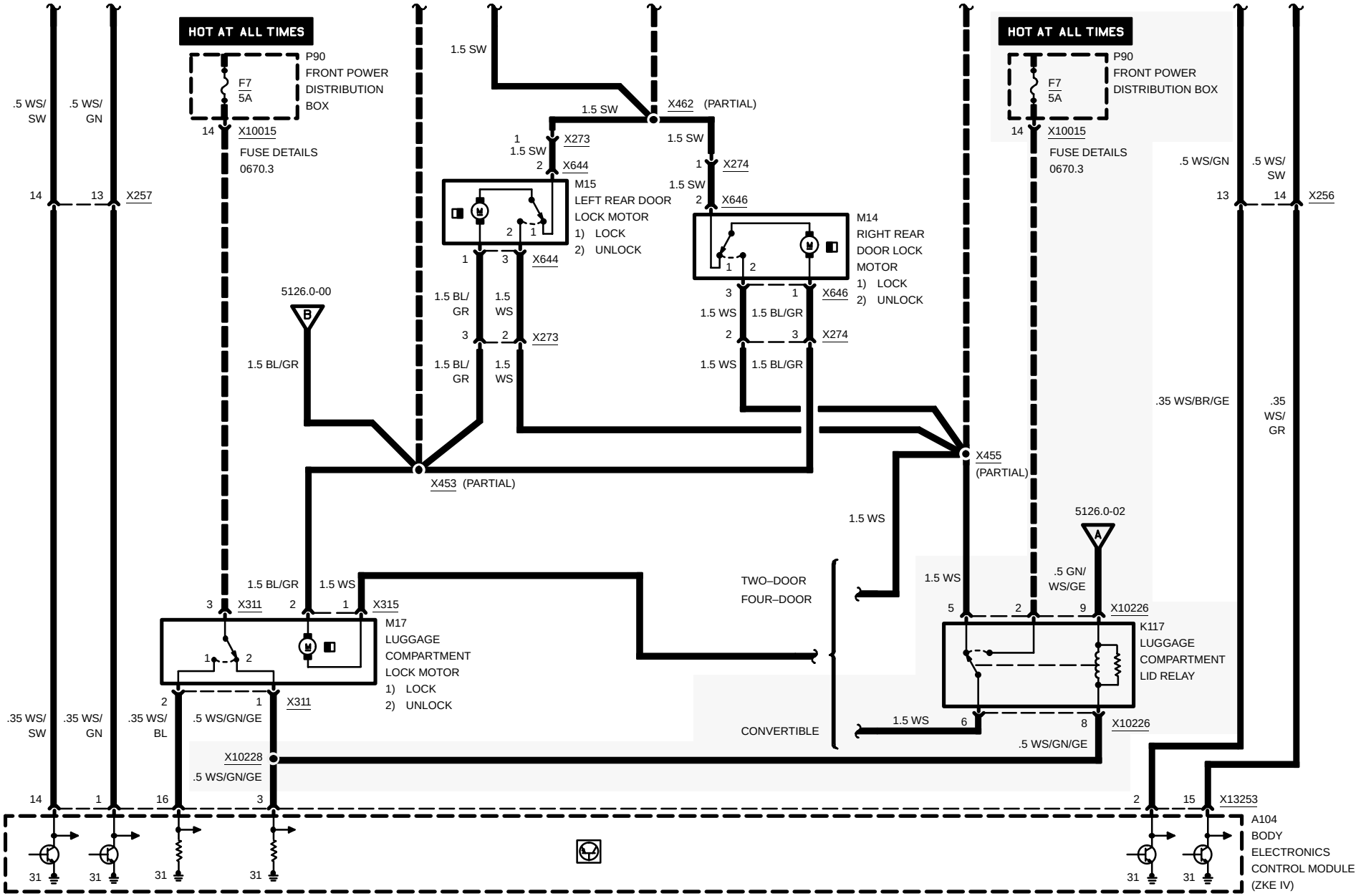
5120.0 ZKE DOOR LOCK HEATING (TSH)



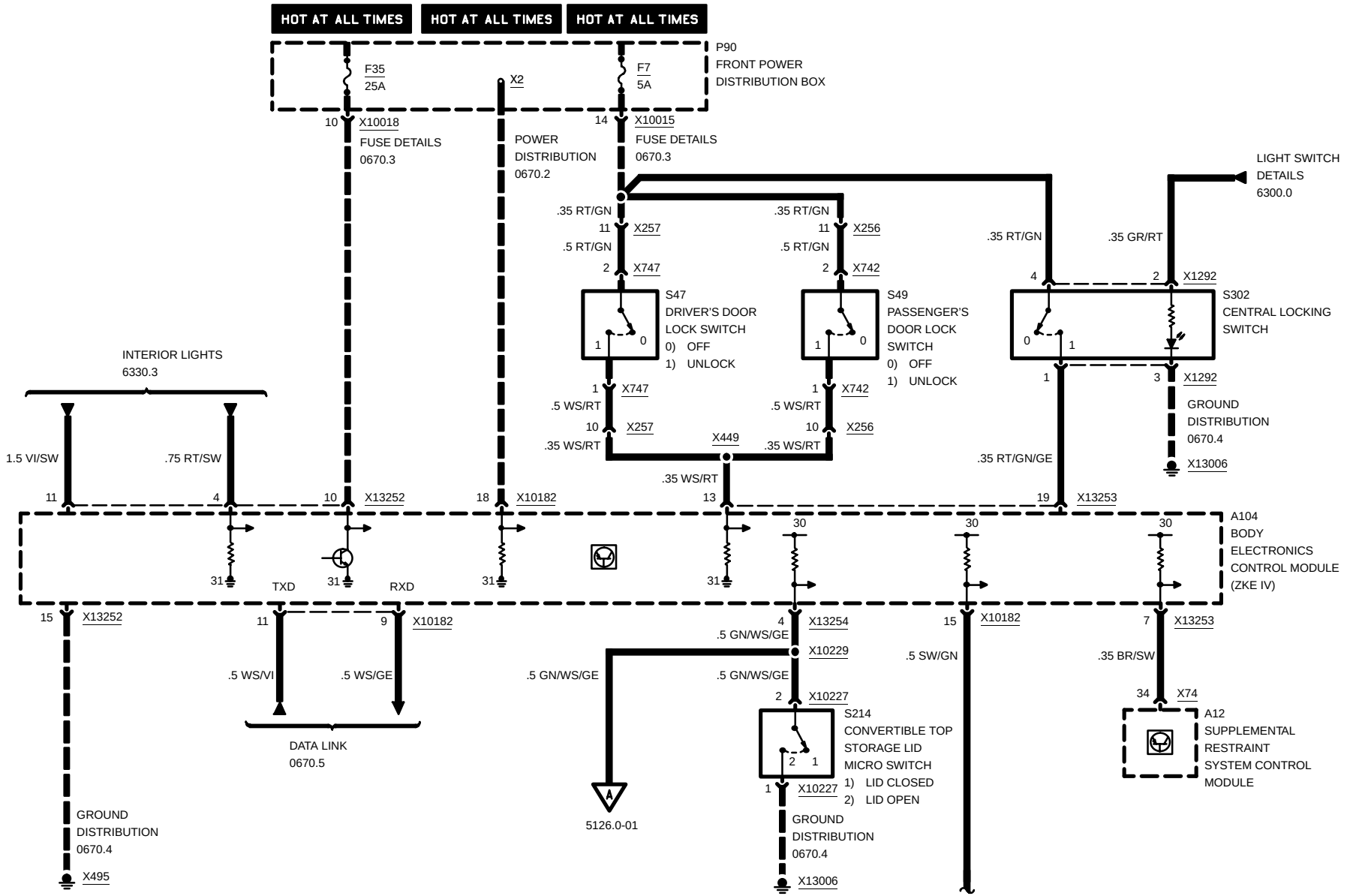
5126.0 ZKE CENTRAL LOCKING (ZV)

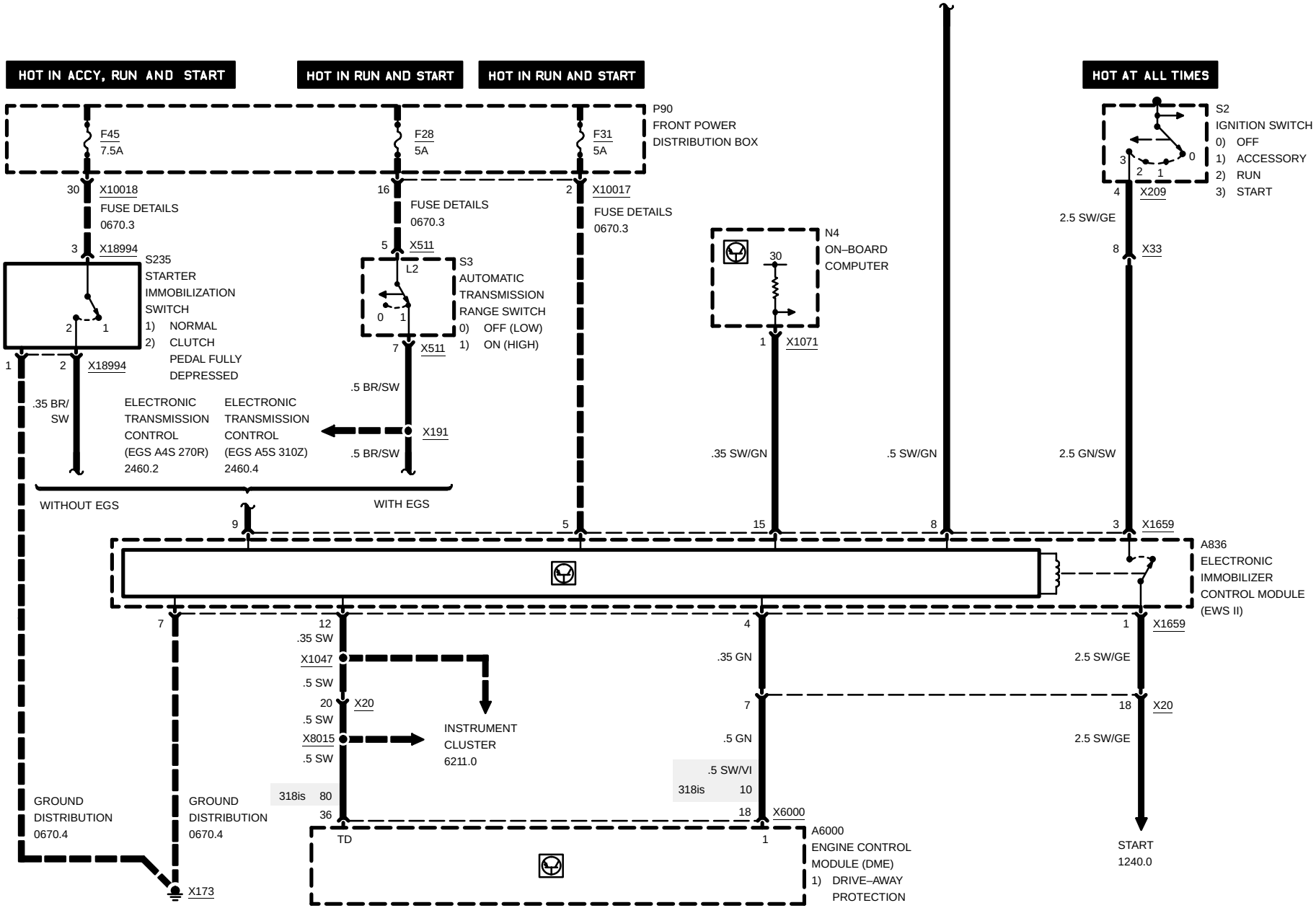
OUTPUT DETAILS




HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F7
5A
X10015
FUSE DETAILS
0670.3
.5 WS/
SW
.5 WS/
GN
X257
1.5 SW
X462 (PARTIAL)
X273
X644
M15
LEFT REAR DOOR
LOCK MOTOR
1) LOCK
2) UNLOCK
X646
X274
M14
RIGHT REAR
DOOR LOCK
MOTOR
1) LOCK
2) UNLOCK
5126.0-00
1.5 BL/
GR
1.5
WS
1.5 BL/GR
X453 (PARTIAL)
X455
(PARTIAL)
.5 WS/GN
.5 WS/
SW
X256
.35 WS/BR/GE
.35
WS/
GR
5126.0-02
.5 GN/
WS/GE
X311
X315
M17
LUGGAGE
COMPARTMENT
LOCK MOTOR
1) LOCK
2) UNLOCK
TWO–DOOR
FOUR–DOOR
CONVERTIBLE
X10226
K117
LUGGAGE
COMPARTMENT
LID RELAY
.35 WS/
SW
.35 WS/
GN
.35 WS/
BL
.5 WS/GN/GE
X10228
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
X13253

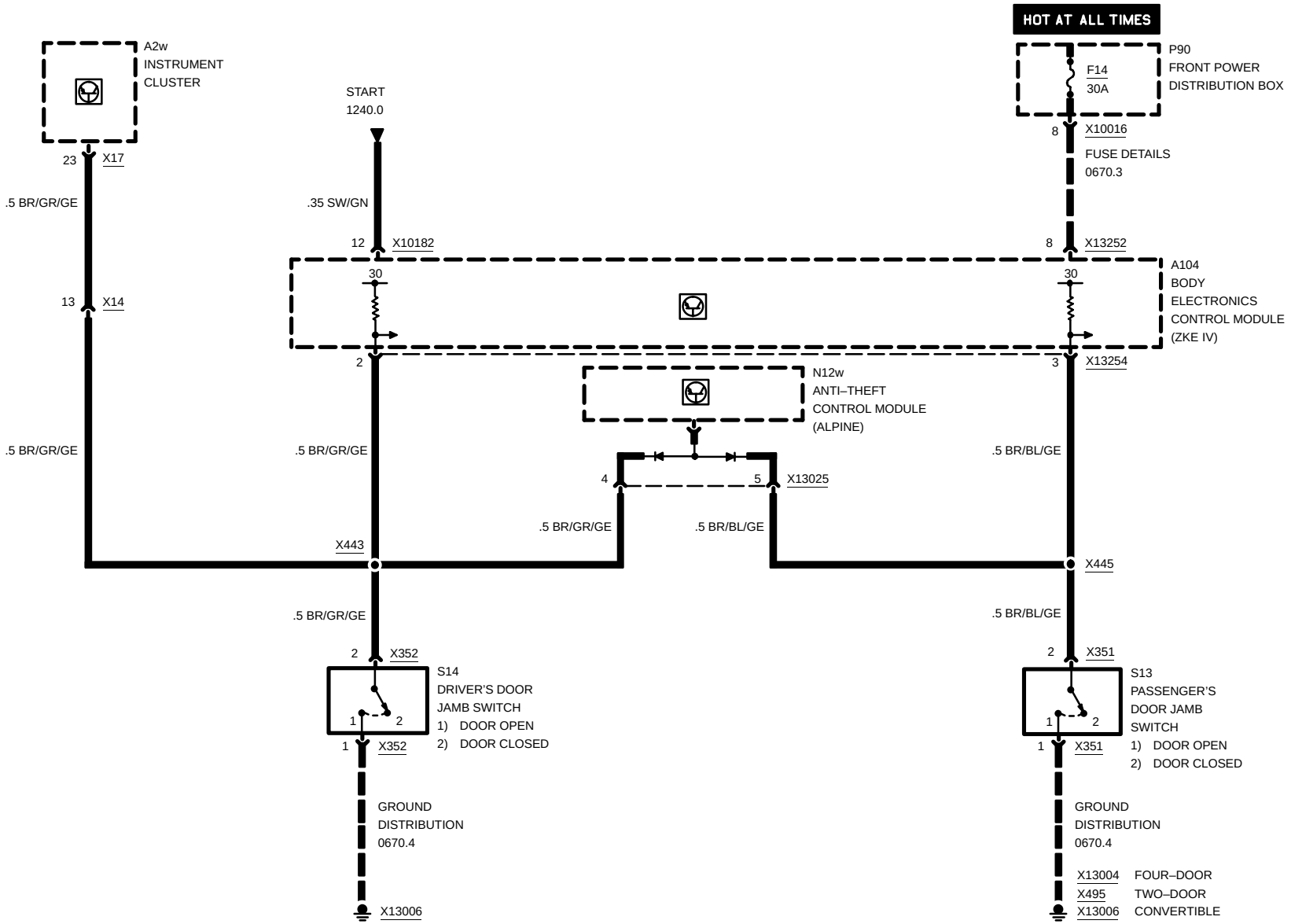
ZKE CENTRAL LOCKING (ZV)




HOT IN ACCY, RUN AND START
HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F45
7.5A
F28
5A
F31
5A
30
X10018
FUSE DETAILS
0670.3
16
FUSE DETAILS
0670.3
2
X10017
FUSE DETAILS
0670.3
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
4
X209
2.5 SW/GE
8
X33
3
X18994
S235
STARTER
IMMOBILIZATION
SWITCH
1) NORMAL
2) CLUTCH
PEDAL FULLY
DEPRESSED
5
X511
L2
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
0) OFF (LOW)
1) ON (HIGH)
N4
ON–BOARD
COMPUTER
30
1
X1071
1
2
X18994
.35 BR/
SW
ELECTRONIC
TRANSMISSION
CONTROL
(EGS A4S 270R)
2460.2
ELECTRONIC
TRANSMISSION
CONTROL
(EGS A5S 310Z)
2460.4
7
X511
.5 BR/SW
X191
.5 BR/SW
.35 SW/GN
.5 SW/GN
2.5 GN/SW
WITHOUT EGS
WITH EGS
9
5
15
8
3
X1659
A836
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS II)
7
12
.35 SW
X1047
.5 SW
20
X20
.5 SW
X8015
.5 SW
INSTRUMENT
CLUSTER
6211.0
4
.35 GN
7
.5 GN
.5 SW/VI
318is 10
18
X6000
1
X1659
2.5 SW/GE
18
X20
2.5 SW/GE
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
318is 80
36
TD
X173
A6000
ENGINE CONTROL
MODULE (DME)
1) DRIVE–AWAY
PROTECTION
START
1240.0

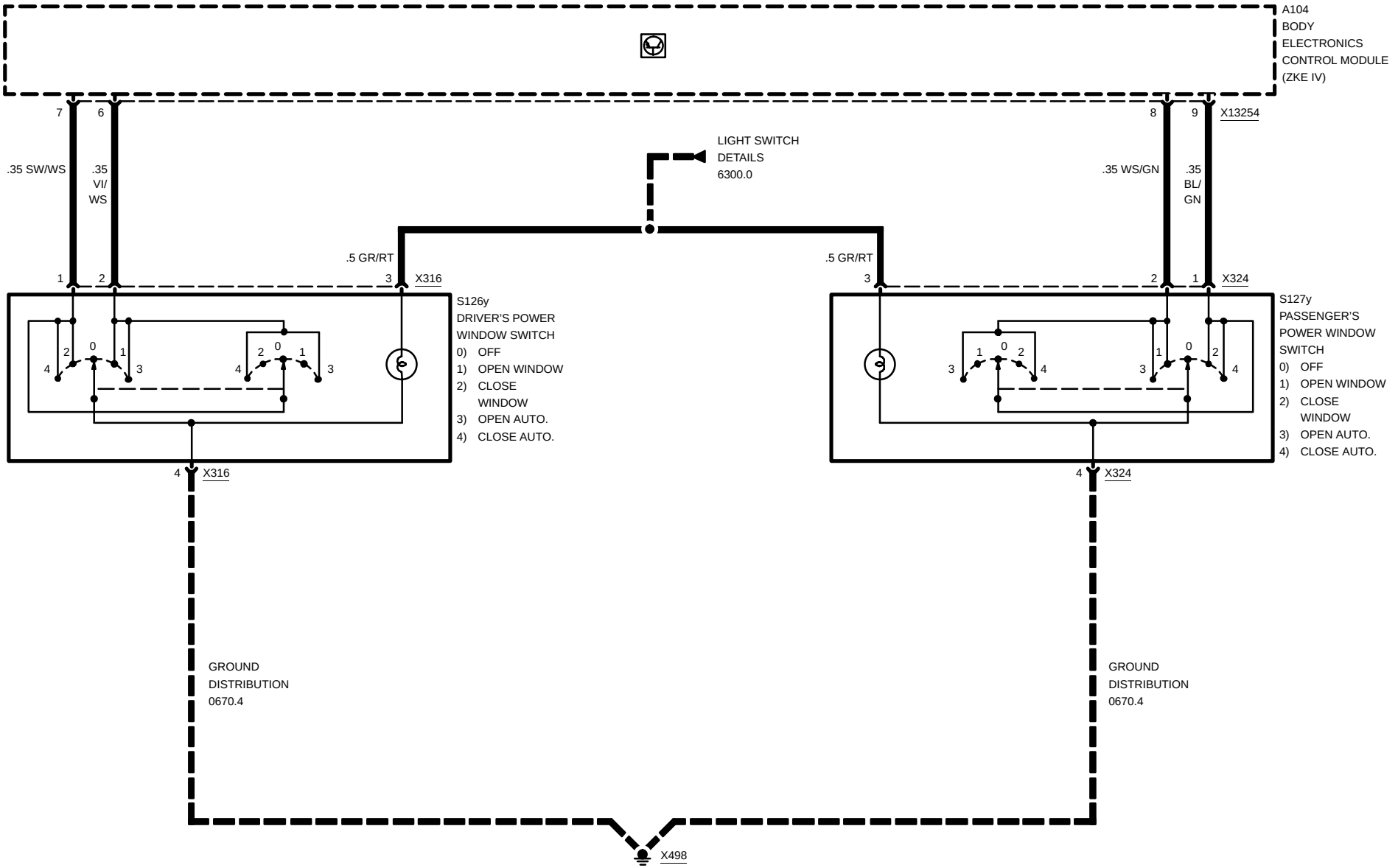
5133.1 POWER WINDOWS (FH)

INPUT DETAILS



POWER WINDOWS (FH)

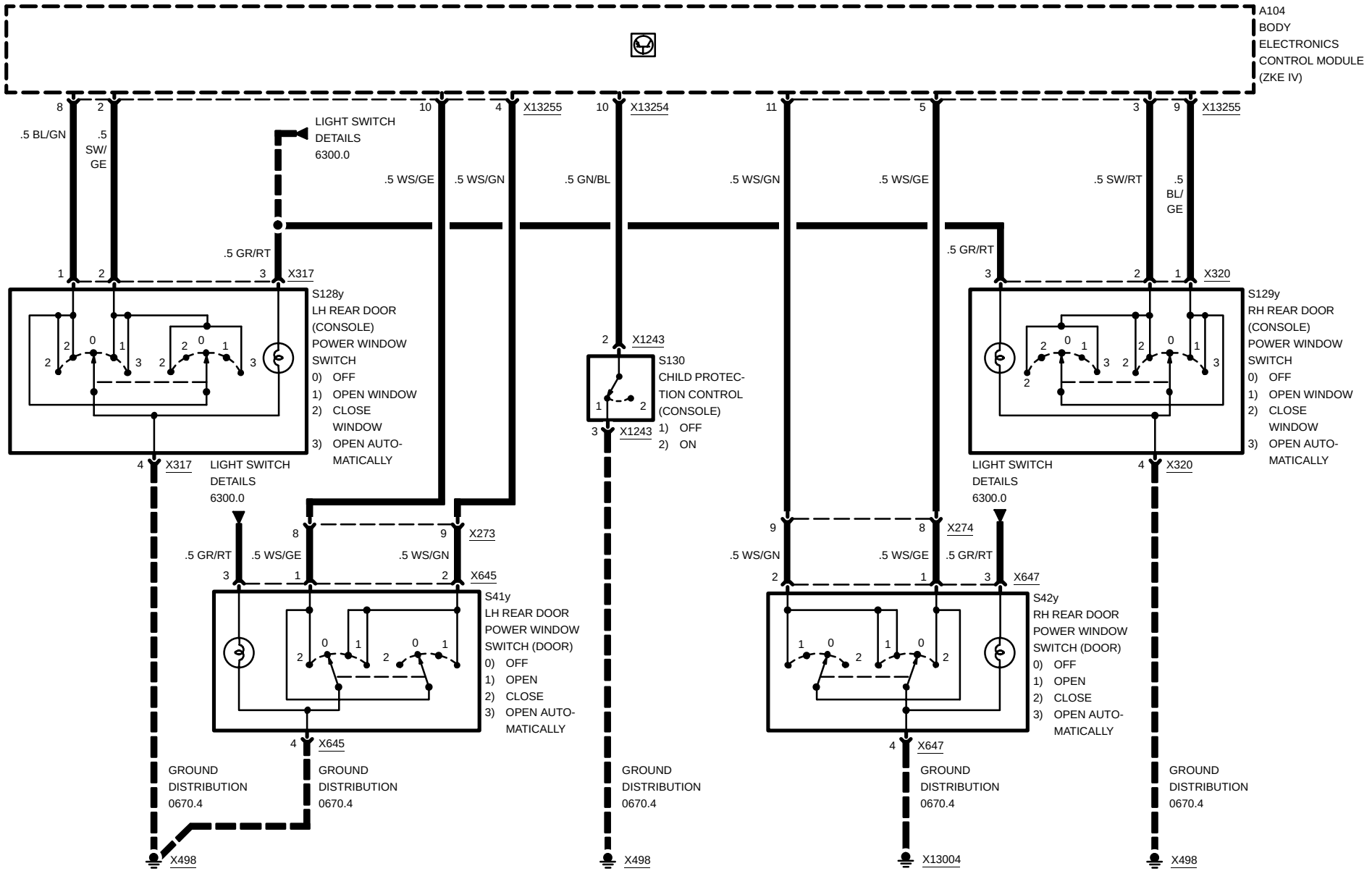
INPUT DETAILS



POWER WINDOWS (FH)

FOUR–DOOR

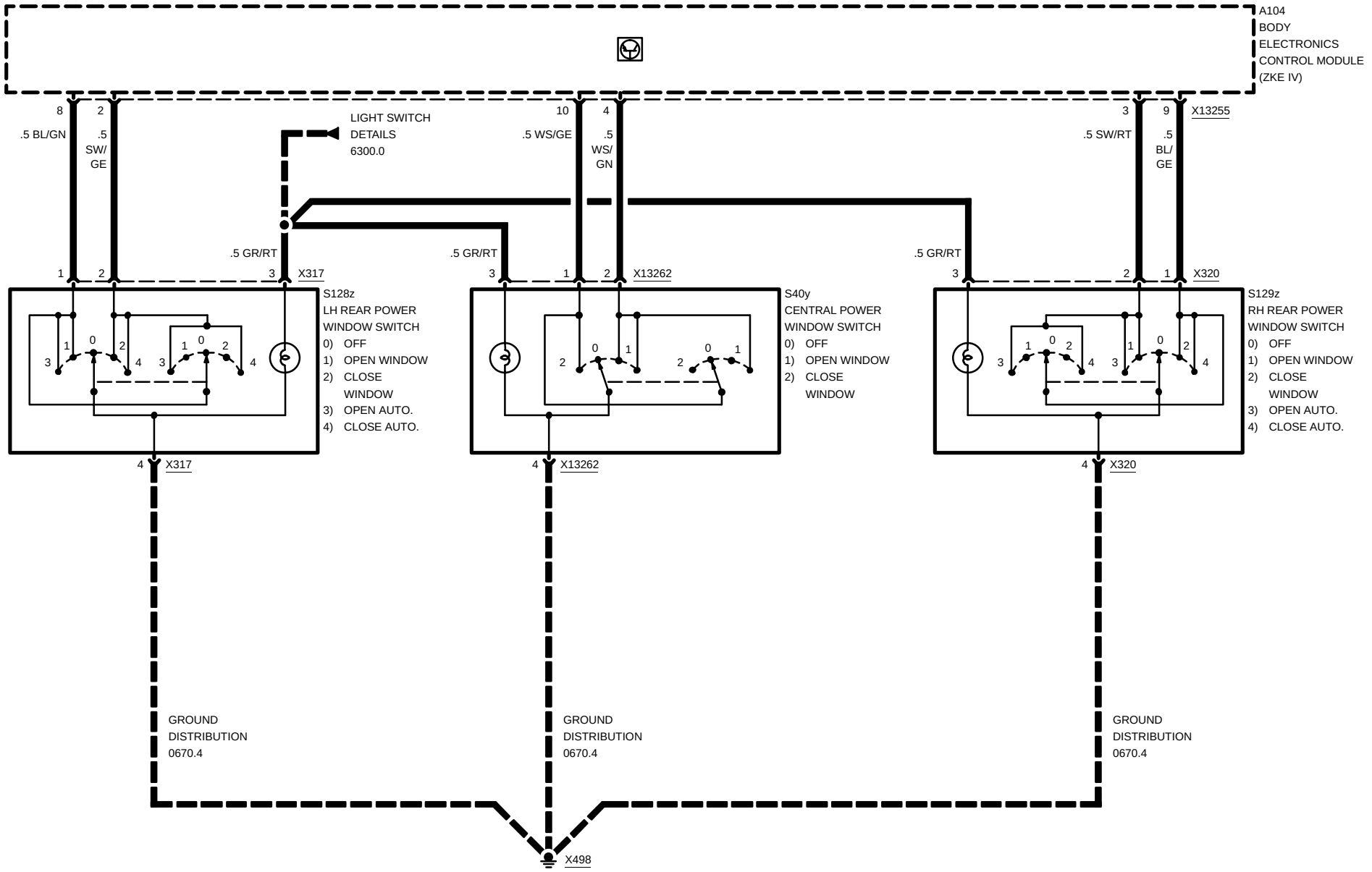
INPUT DETAILS



POWER WINDOWS (FH)

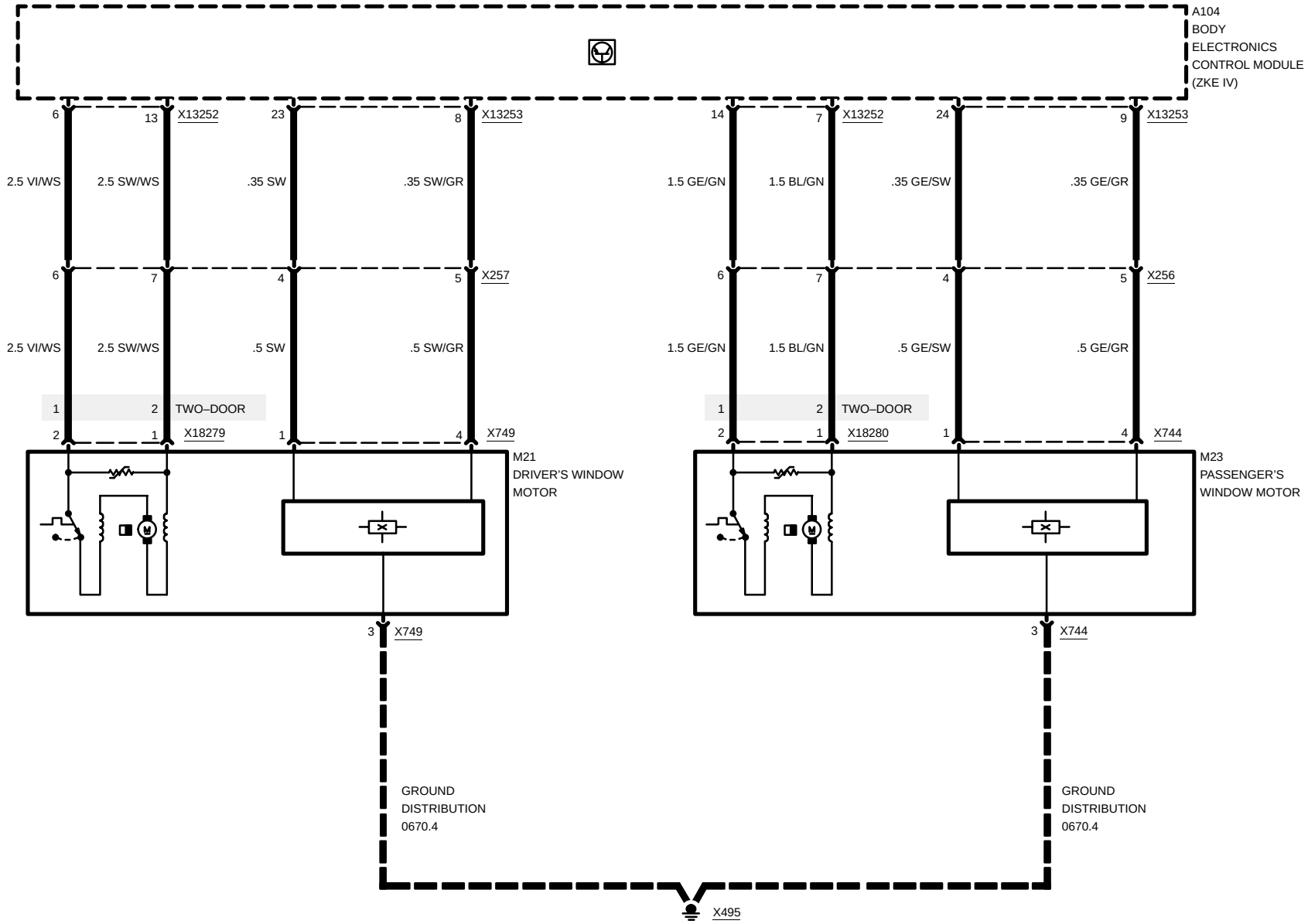
CONVERTIBLE

INPUT DETAILS



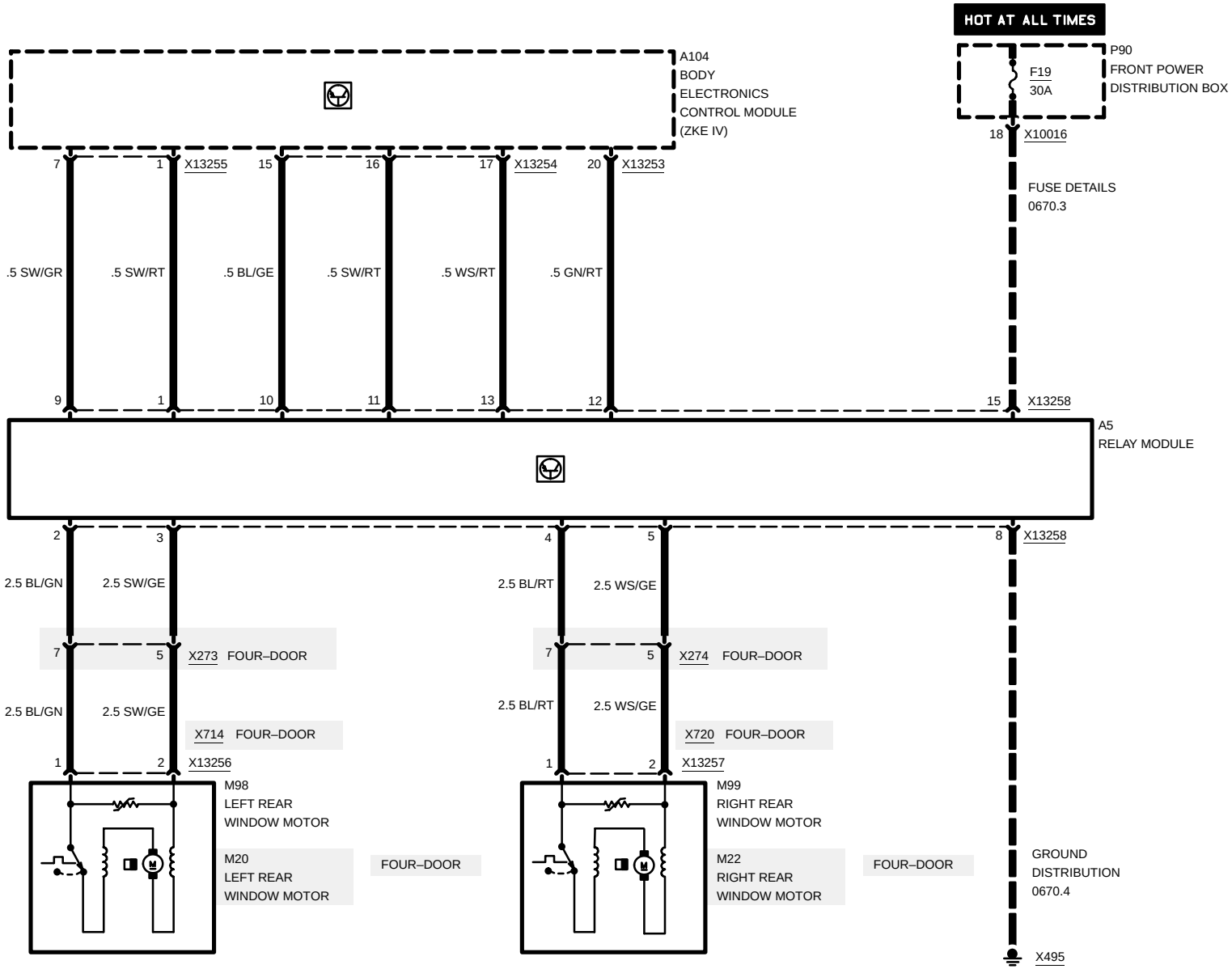
POWER WINDOWS (FH)

OUTPUT DETAILS



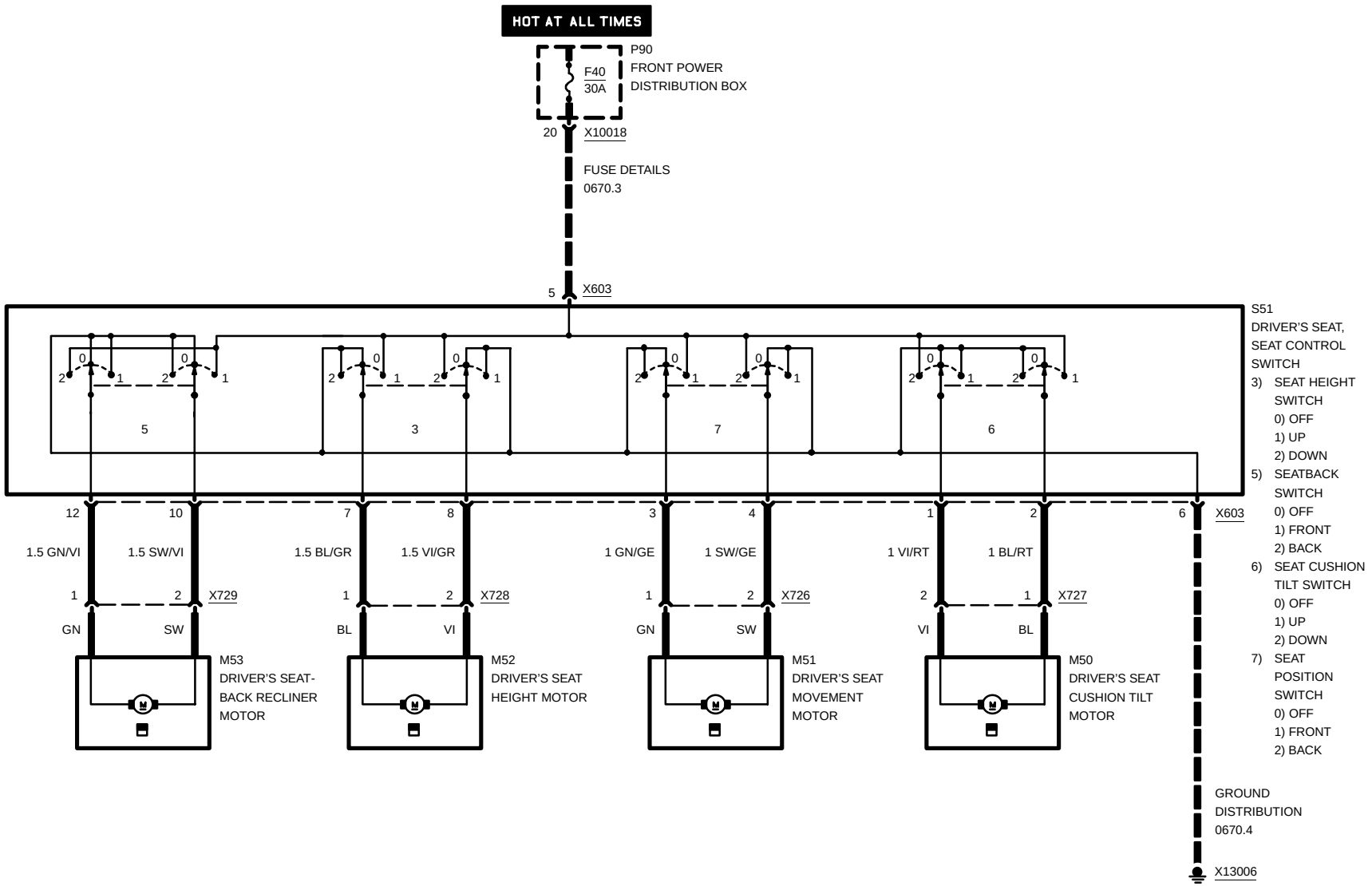
POWER WINDOWS (FH)

OUTPUT DETAILS



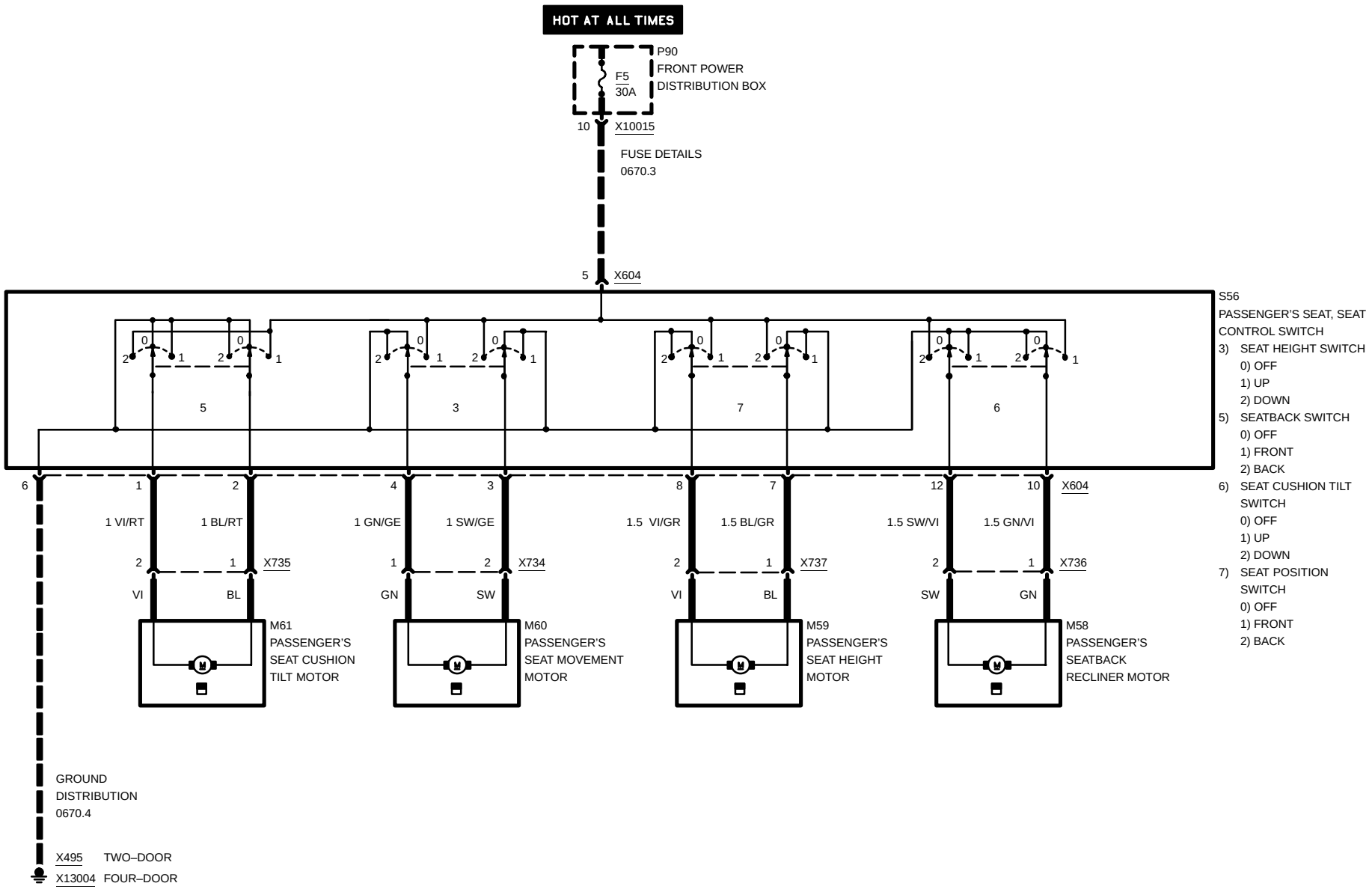
5200.0 POWER SEATS

DRIVER'S SEAT



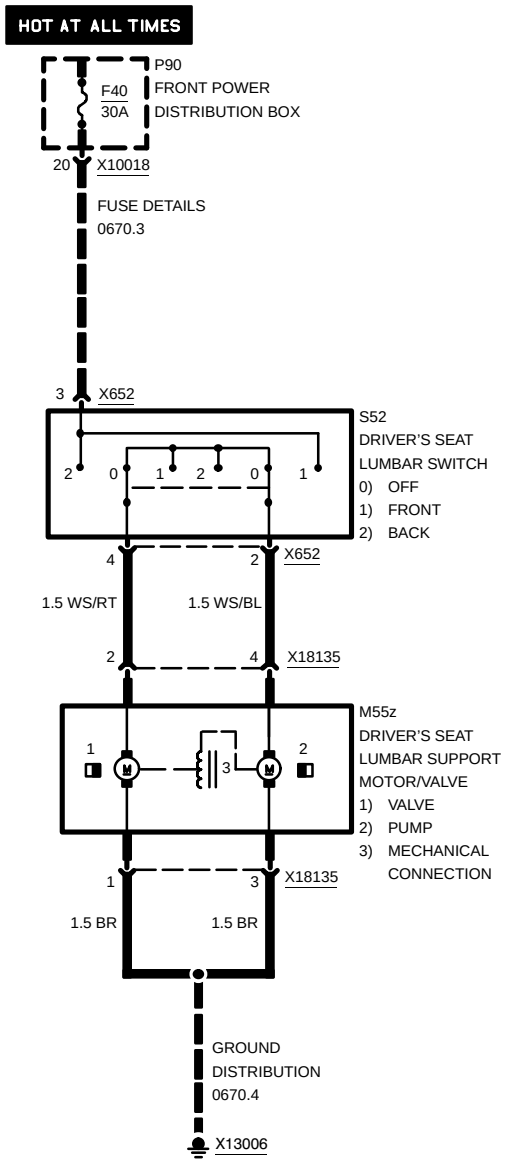
POWER SEATS

PASSENGER'S SEAT

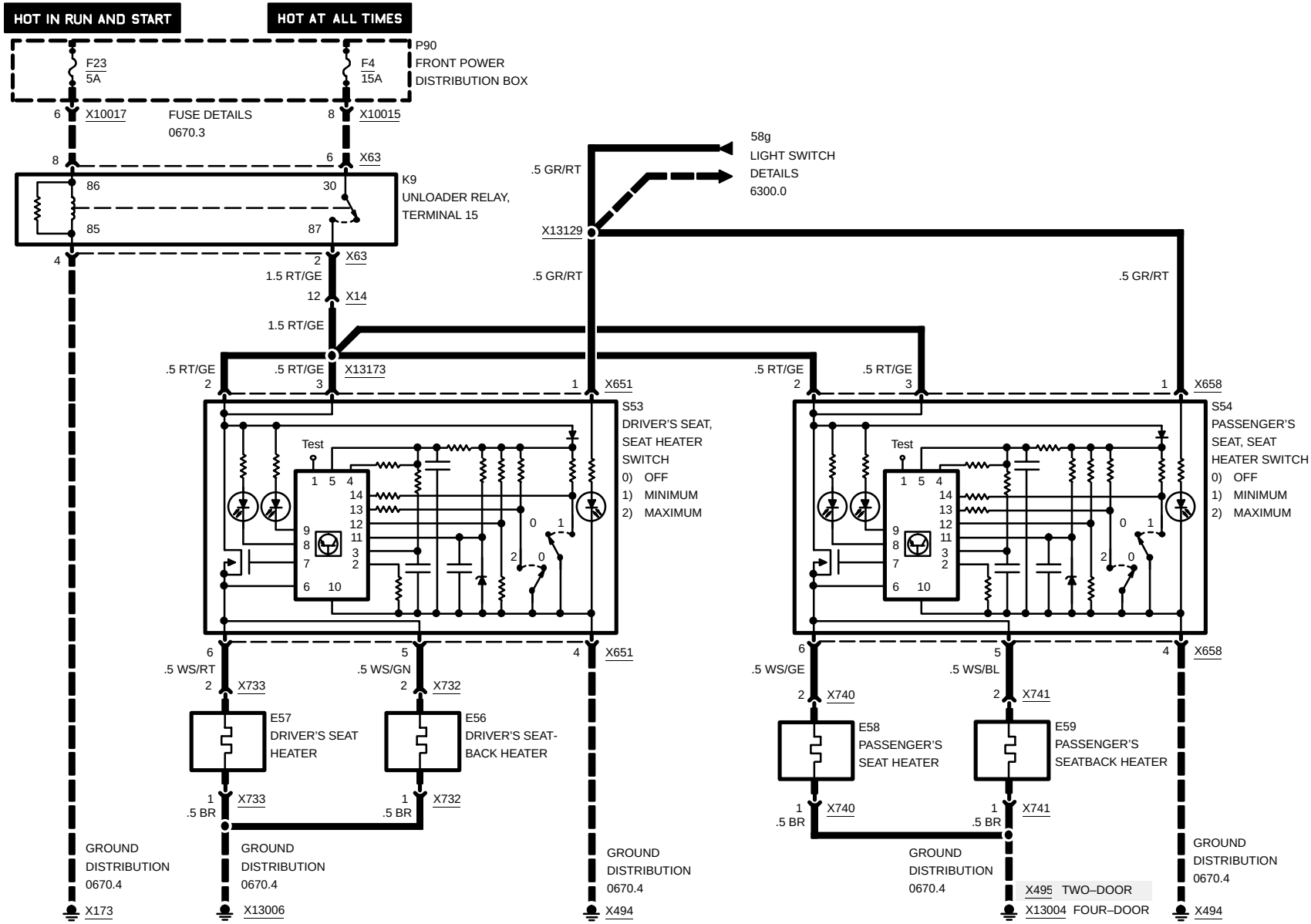


POWER SEATS AND LUMBAR SUPPORT

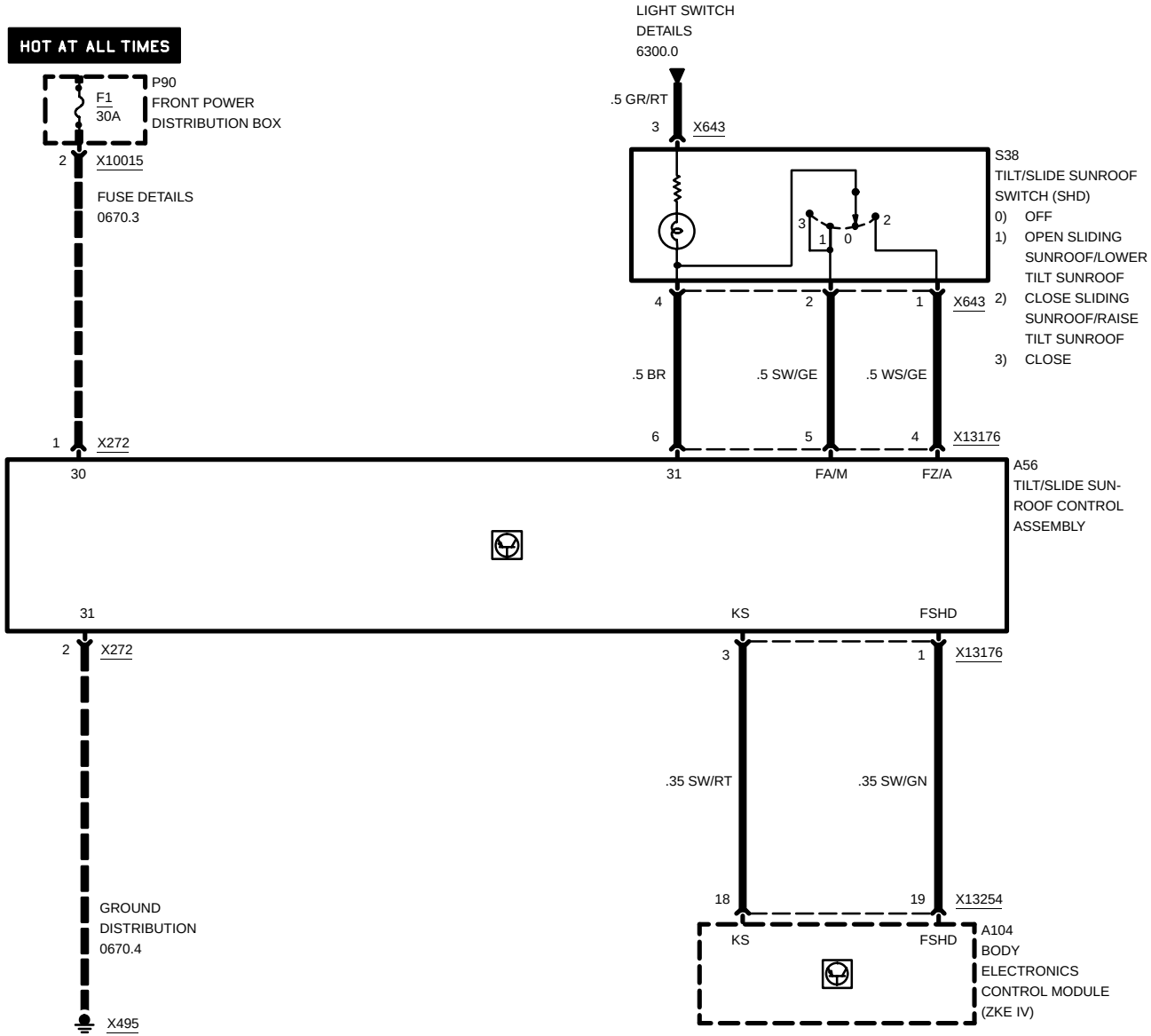
DRIVER'S SIDE – LUMBAR SUPPORT

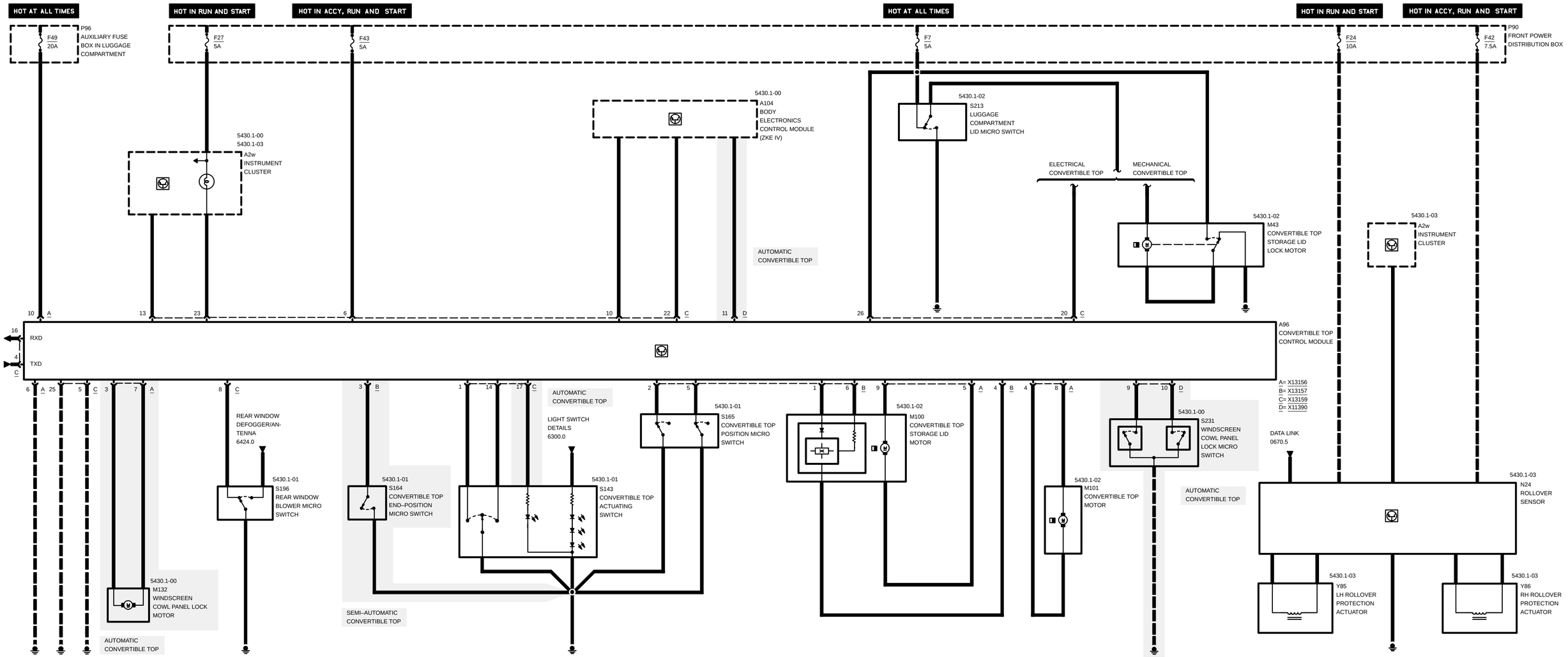


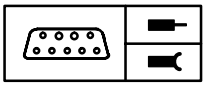
5203.0 HEATED SEATS



5410.1 POWER TILT/SLIDE SUNROOF (SHD)




HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN ACCY, RUN AND START
HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN ACCY, RUN AND START
F49 20A
P96 AUXILIARY FUSE BOX IN LUGGAGE COMPARTMENT
F27 5A
F43 5A
F7 5A
F24 10A
F42 7.5A
P90 FRONT POWER DISTRIBUTION BOX
5430.1-00 5430.1-03 A2w INSTRUMENT CLUSTER
5430.1-00 A104 BODY ELECTRONICS CONTROL MODULE (ZKE IV)
AUTOMATIC CONVERTIBLE TOP
5430.1-02 S213 LUGGAGE COMPARTMENT LID MICRO SWITCH
ELECTRICAL CONVERTIBLE TOP
MECHANICAL CONVERTIBLE TOP
5430.1-02 M43 CONVERTIBLE TOP STORAGE LID LOCK MOTOR
5430.1-03 A2w INSTRUMENT CLUSTER
RXD
TXD
A96 CONVERTIBLE TOP CONTROL MODULE
A= X13156
B= X13157
C= X13159
D= X11390
REAR WINDOW DEFOGGER/AN-TENNA 6424.0
5430.1-01 S196 REAR WINDOW BLOWER MICRO SWITCH
5430.1-00 M132 WINDSCREEN COWL PANEL LOCK MOTOR
AUTOMATIC CONVERTIBLE TOP
5430.1-01 S164 CONVERTIBLE TOP END–POSITION MICRO SWITCH
SEMI–AUTOMATIC CONVERTIBLE TOP
AUTOMATIC CONVERTIBLE TOP
LIGHT SWITCH DETAILS 6300.0
5430.1-01 S143 CONVERTIBLE TOP ACTUATING SWITCH
5430.1-01 S165 CONVERTIBLE TOP POSITION MICRO SWITCH
5430.1-02 M100 CONVERTIBLE TOP STORAGE LID MOTOR
5430.1-02 M101 CONVERTIBLE TOP MOTOR
5430.1-00 S231 WINDSCREEN COWL PANEL LOCK MICRO SWITCH
AUTOMATIC CONVERTIBLE TOP
DATA LINK 0670.5
5430.1-03 N24 ROLLOVER SENSOR
5430.1-03 Y85 LH ROLLOVER PROTECTION ACTUATOR
5430.1-03 Y86 RH ROLLOVER PROTECTION ACTUATOR



Pin Assignments

A = X13156	10 Pins, black
B = X13157	6 Pins, black
C = X13159	26 Pins, black
D = X11390	12 Pins, black

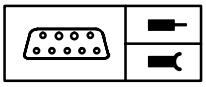
X13156

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3	E/A	Activate engine	Windscreen cowl panel locking (automatic convertible top)
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground
7	E/A	Activate engine	Windscreen cowl panel locking (automatic convertible top)
8	E/A	Control signal	Convertible top motor
9	E/A	Control signal	Convertible top storage lid motor
10	E	Plus supply 12V	Fuse 49

X13157

Pin	Type	Description/Function	Connection
1	A	Plus supply	Position sensor (convertible top storage lid motor)
2	E	Position signal	Convertible top position micro switch
3	E	Position signal	Convertible top end position micro switch (semi-automatic convertible top)
4	E	Component ground	Position sensor (convertible top storage lid motor)
5	E	Position signal	Convertible top position micro switch
6	E	Control signal	Position sensor (convertible top storage lid motor)

E = Input, A = Output, M = Ground

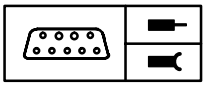


Pin Assignments

X13159

Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box
7		Not used	
8	E	Rear window blower signal	Rear window blower micro switch
9		Not used	
10	A	Data signal	Body electronics control module
11		Not used	
12		Not used	
13	A	Speed signal	Instrument cluster
14	E	Top closed signal	Convertible top actuating switch
15		Not used	
16	A	RxD data signal	Data link connector
17	A	LED	Convertible top actuating switch
18		Not used	
19		Not used	
20	E	Luggage compartment lid signal	Luggage compartment lid micro switch
21		Not used	
22	A	Data signal	Body electronics control module
23		Not used	
24		Not used	
25	M	Ground	Ground
26	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



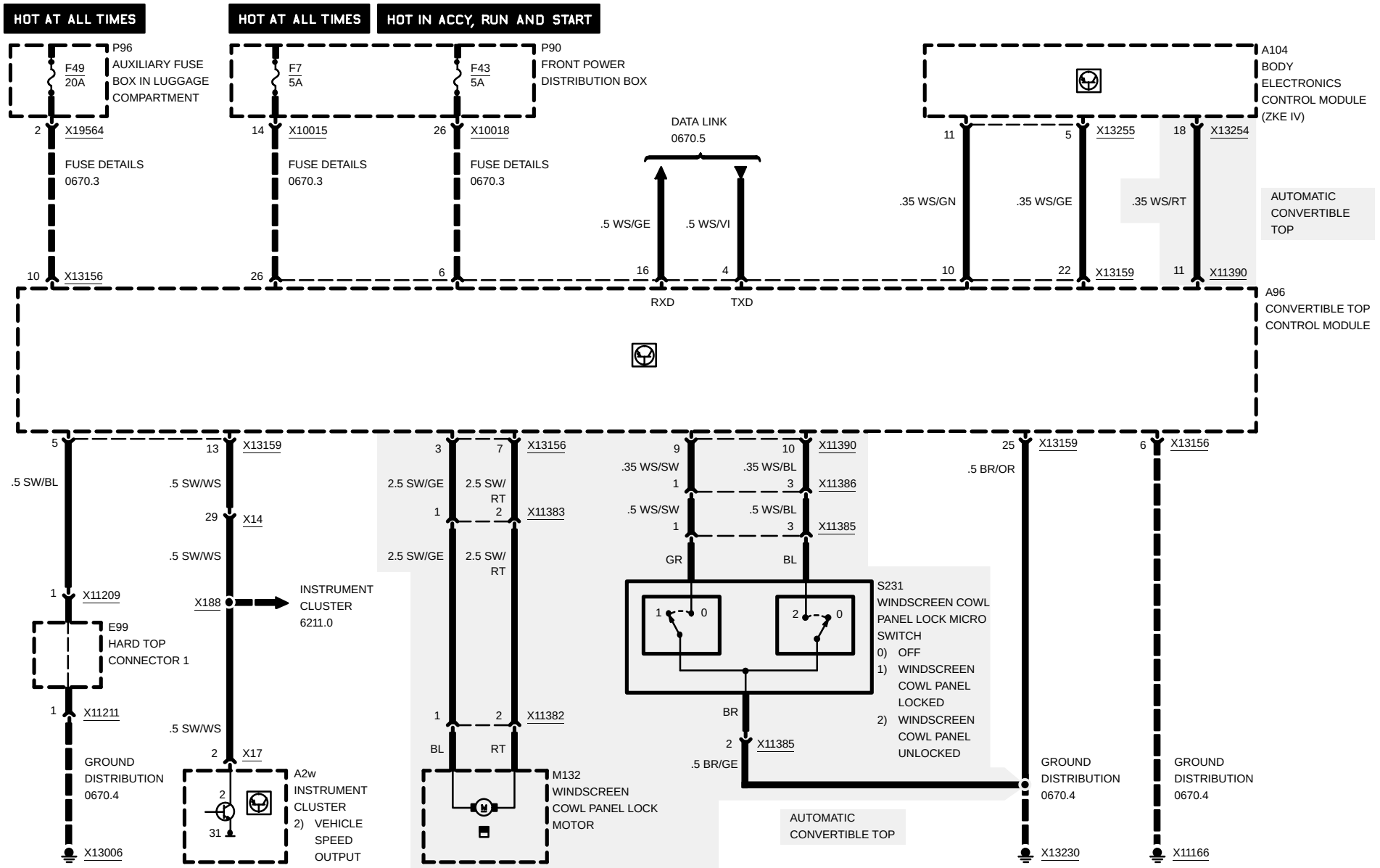
Pin Assignments

X11390

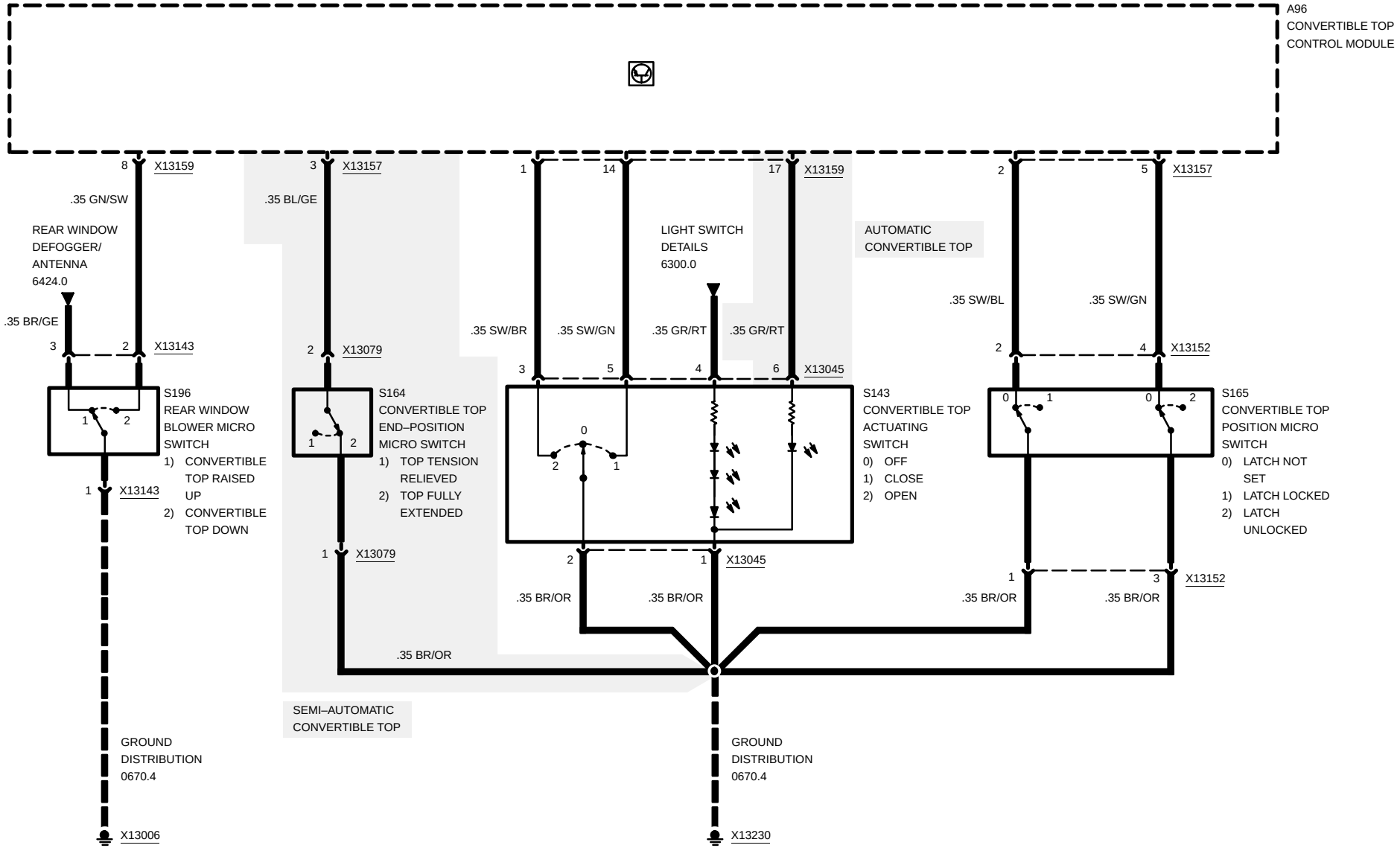
Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9	E/A	Lock windscreen cowl panel	Windscreen cowl panel lock microswitch (automatic convertible top)
10	E/A	Unlock windscreen cowl panel	Windscreen cowl panel UNLOCKED (automatic convertible top)
11	E/A	Comfort closing	Body electronics control module (ZKE IV) (automatic convertible top)
12		Not used	

E = Input, A = Output, M = Ground

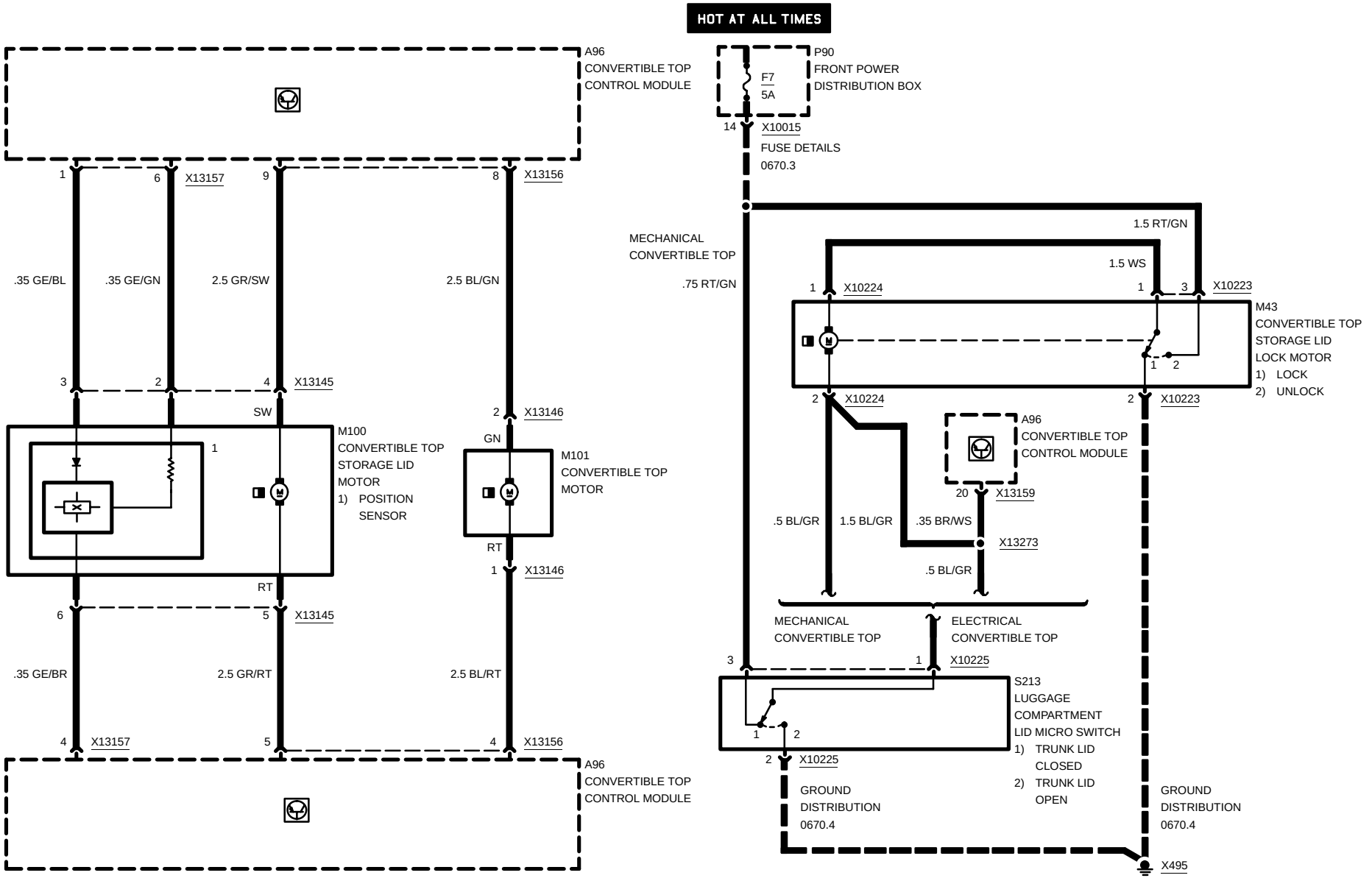
ELECTRICAL CONVERTIBLE TOP



ELECTRICAL CONVERTIBLE TOP

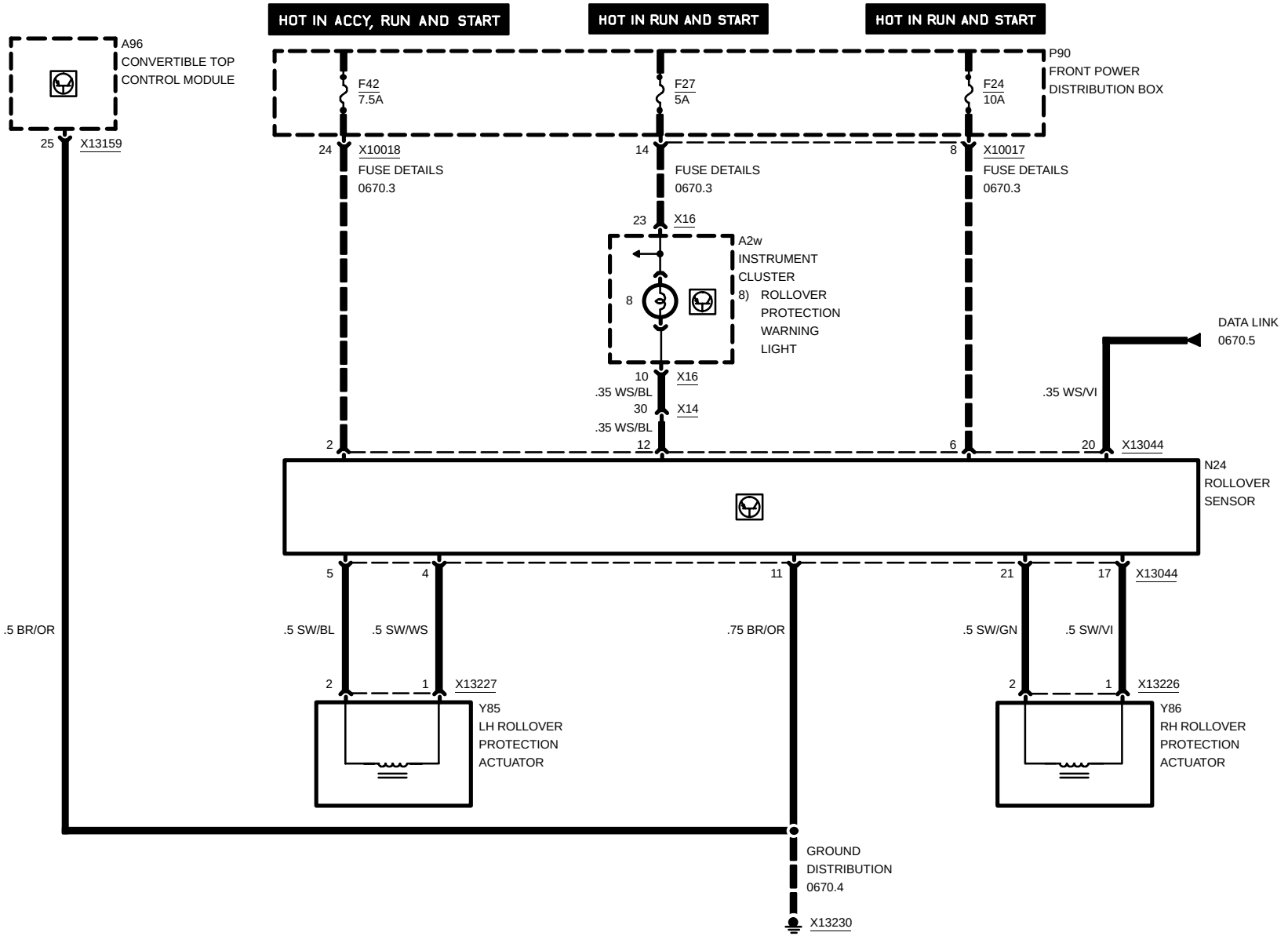


ELECTRICAL CONVERTIBLE TOP

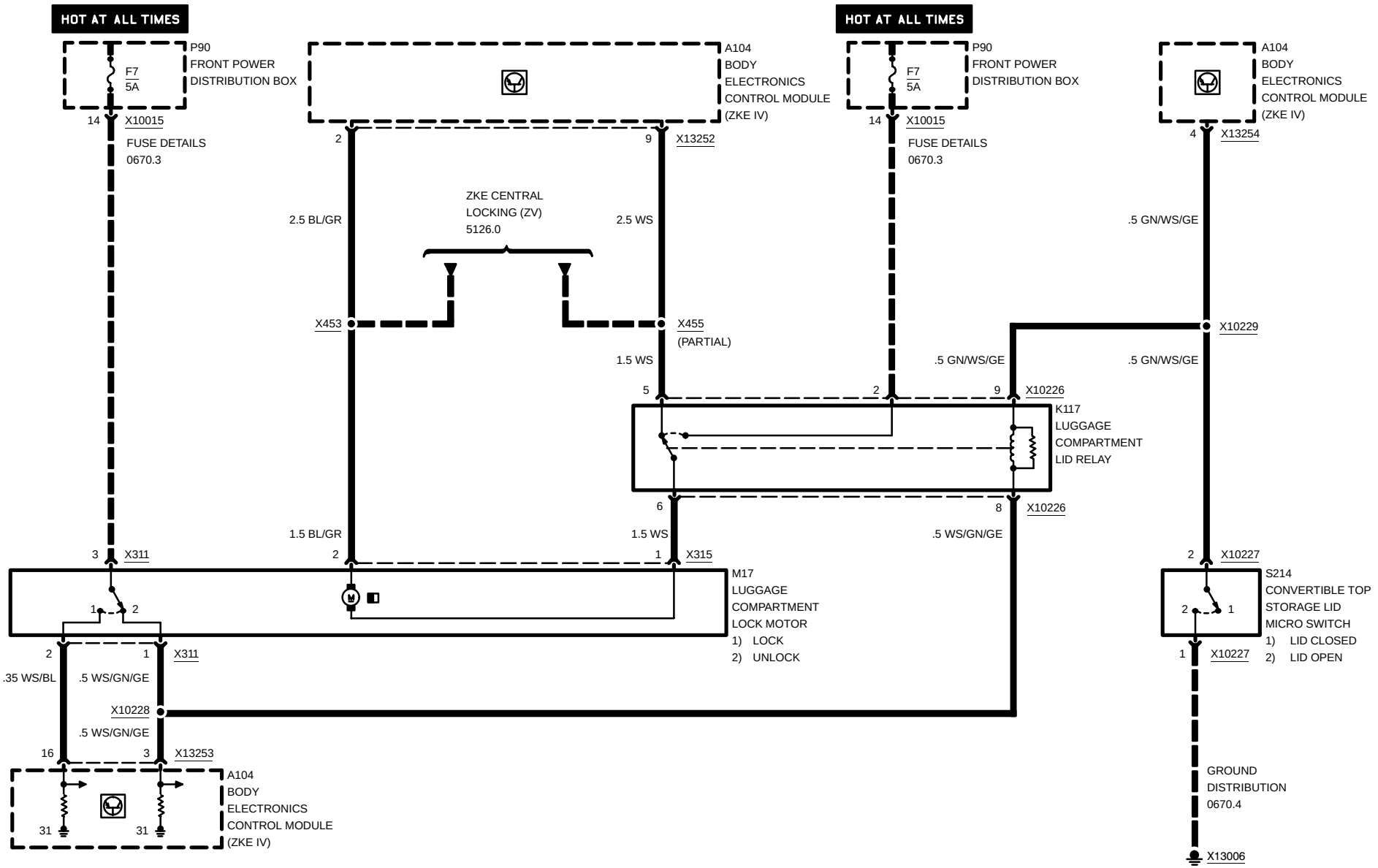


ELECTRICAL CONVERTIBLE TOP

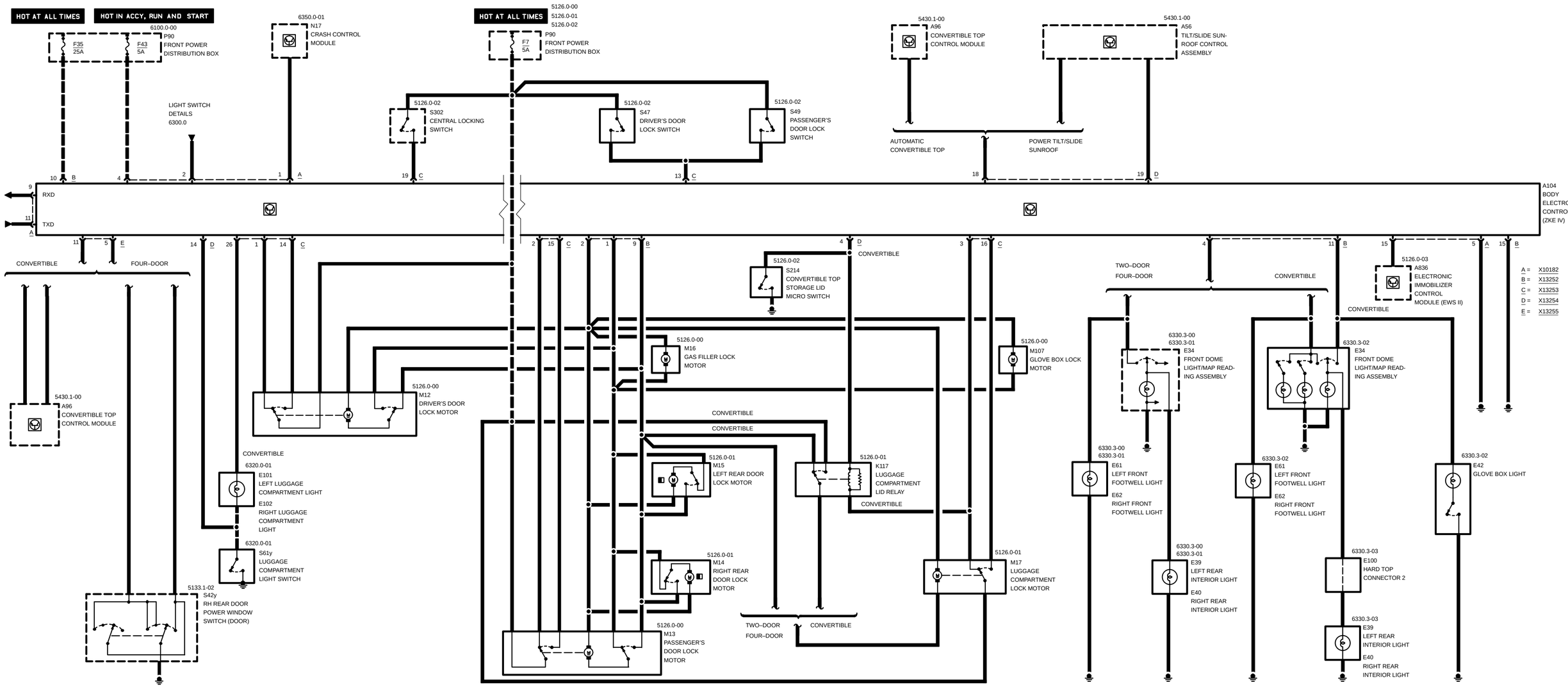
ROLLOVER SENSOR

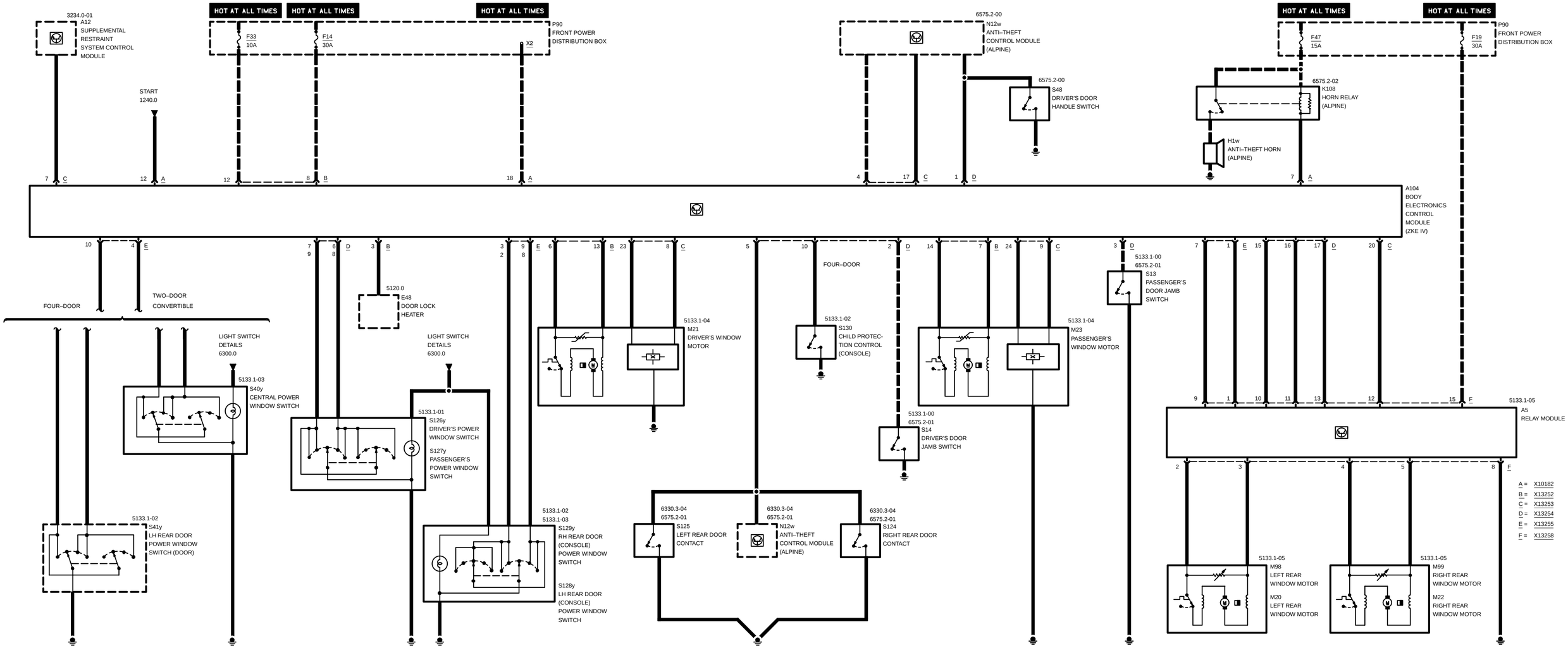


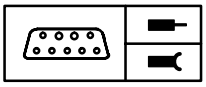
ELECTRICAL CONVERTIBLE TOP



6100.0 CENTRAL BODY ELECTRONICS (ZKE IV)




3234.0-01
A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
START
1240.0
HOT AT ALL TIMES
HOT AT ALL TIMES
HOT AT ALL TIMES
F33
10A
F14
30A
X2
P90
FRONT POWER DISTRIBUTION BOX
6575.2-00
N12w
ANTI–THEFT CONTROL MODULE (ALPINE)
6575.2-00
S48
DRIVER'S DOOR HANDLE SWITCH
HOT AT ALL TIMES
HOT AT ALL TIMES
F47
15A
F19
30A
P90
FRONT POWER DISTRIBUTION BOX
6575.2-02
K108
HORN RELAY (ALPINE)
H1w
ANTI–THEFT HORN (ALPINE)
A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)
FOUR–DOOR
TWO–DOOR CONVERTIBLE
LIGHT SWITCH DETAILS 6300.0
5133.1-03
S40y
CENTRAL POWER WINDOW SWITCH
5133.1-02
S41y
LH REAR DOOR POWER WINDOW SWITCH (DOOR)
5120.0
E48
DOOR LOCK HEATER
LIGHT SWITCH DETAILS 6300.0
5133.1-01
S126y
DRIVER'S POWER WINDOW SWITCH
S127y
PASSENGER'S POWER WINDOW SWITCH
5133.1-02
5133.1-03
S129y
RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH
S128y
LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH
5133.1-04
M21
DRIVER'S WINDOW MOTOR
FOUR–DOOR
5133.1-02
S130
CHILD PROTECTION CONTROL (CONSOLE)
6330.3-04
6575.2-01
S125
LEFT REAR DOOR CONTACT
6330.3-04
6575.2-01
N12w
ANTI–THEFT CONTROL MODULE (ALPINE)
6330.3-04
6575.2-01
S124
RIGHT REAR DOOR CONTACT
5133.1-00
6575.2-01
S14
DRIVER'S DOOR JAMB SWITCH
5133.1-04
M23
PASSENGER'S WINDOW MOTOR
5133.1-00
6575.2-01
S13
PASSENGER'S DOOR JAMB SWITCH
5133.1-05
A5
RELAY MODULE
5133.1-05
M98
LEFT REAR WINDOW MOTOR
M20
LEFT REAR WINDOW MOTOR
5133.1-05
M99
RIGHT REAR WINDOW MOTOR
M22
RIGHT REAR WINDOW MOTOR
A = X10182
B = X13252
C = X13253
D = X13254
E = X13255
F = X13258



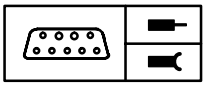
Pin Assignments

E = X10182	18 Pins, black
F = X13252	15 Pins, black
G = X13253	26 Pins, yellow
H = X13254	26 Pins, green
I = X13255	26 Pins, nature
J = X13258	15 Pins, white

X10182

Pin	Type	Description/Function	Connection
1	E	Crash signal	Crash control unit
2	E	Light signal	Light switch
3		Not used	
4	E	Voltage supply, terminal R	Front power distribution box, fuse 43
5	M	Ground	Ground
6		Not used	
7	A	Activate relay	Horn relay (Alpine)
8		Not used	
9	A	Diagnosis RxD signal	Data link connector
10		Not used	
11	E/A	Diagnosis TxD signal	Data link connector
12	E	Start signal	Starter
13		Not used	
14		Not used	
15	A	Drive-away protection	Electronic immobilizer control module (EWS II)
16		Not used	
17		Not used	
18	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



Pin Assignments

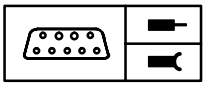
X13252

Pin	Type	Description/Function	Connection
1	E	Power lock signal	Door lock motors
2	A	Voltage supply	All lock motors
3	A	Power supply	Door lock heating
4	E	Automatic interior light signal	Interior light
5		Not used	
6	A	Voltage supply	Power window motor, driver's door
7	A	Voltage supply	Power window motor, passenger's door
8	E	Power supply	Front power distribution box, fuse 14
9	E	Lock signal	Lock motor & luggage compartment lid relay
10	E	Power supply	Front power distribution box, fuse 35
11	A	Voltage supply	Interior lights, engine compartment light, glove box light
12	E	Power supply	Front power distribution box, fuse 33
13	E	Motor signal	Power window motor, driver's door
14	E	Motor signal	Power window motor, passenger's door
15	M	Ground	Ground

X13253

Pin	Type	Description/Function	Connection
1	E	Position signal	Door lock motor, driver's door
2	E	Position signal	Door lock motor, passenger's door
3	E	Lock signal, luggage compartment lid	Luggage compartment lid lock motor, luggage compartment lid relay
4	E	Data signal	Anti-theft system control module (Alpine)
5		Not used	
6		Not used	
7	E	Crash signal	Inertia switch
8	E	Revolution signal	Power window motor, driver's door
9	E	Revolution signal	Power window motor, passenger's door

E = Input, A = Output, M = Ground



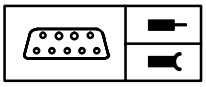
Pin Assignments

Pin	Type	Description/Function	Connection
10		Not used	
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal, driver's door	Door lock motor, driver's door
15	E	Lock signal, passenger's door	Door lock motor, passenger's door
16	E	Lock signal, luggage compartment lid	Luggage compartment lid lock motor
17	E	Data signal	Anti-theft system control module (Alpine)
18		Not used	
19	E	Central locking signal	Central locking switch
20	E/A	Data signal	Relay module
21		Not used	
22		Not used	
23	A	Plus supply (revolution)	Power window's motor, driver's side
24	A	Voltage supply (revolution)	Power window's motor, passenger's side
25		Not used	
26	A	Voltage supply	Luggage compartment lights

X13254

Pin	Type	Description/Function	Connection
1	E	Door signal	Driver's door handle switch
2	E	Door signal	Door jamb switch driver's door
3	E	Door signal	Door jamb switch passenger's door
4	E	Convertible: Luggage compartment lid signal Four-door: Door signal	Luggage compartment lid switch/luggage compartment lid relay Left rear door jump switch
5	E	Door signal	Right rear door jump switch
6	E	OPEN signal	Power window switch, driver's door
7	E	CLOSE signal	Power window switch, driver's door
8	E	OPEN signal	Power window switch, passenger's door
9	E	CLOSE signal	Power window switch, passenger's door
10	E	Four-door: child protection signal	Child protection switch

E = Input, A = Output, M = Ground



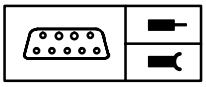
Pin Assignments

Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13		Not used	
14	E	Luggage compartment lid signal	Luggage compartment lid switch
15	A	Data signal	Relay module
16	A	Data signal	Relay module
17	A	Data signal	Relay module
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13255

Pin	Type	Description/Function	Connection
1	A	Data signal	Relay module
2	E	OPEN signal	Left rear power window switch
3	E	OPEN signal	Right rear power window switch
4	E	Convertible: OPEN signal Four-door: OPEN signal	Main power window switch Driver’s rear window switch
5	E	Convertible: Data signal Four-door: CLOSE signal	Convertible top control module Passenger’s rear window switch
6		Not used	
7	A	Data signal	Relay module
8	E	CLOSE signal	Left rear power window switch
9	E	CLOSE signal	Right rear power window switch
10	E	Convertible: CLOSE signal Four-door: CLOSE signal	Main power window switch Driver’s window switch

E = Input, A = Output, M = Ground



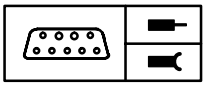
Pin Assignments

Pin	Type	Description/Function	Connection
11	E	Convertible: Data signal Four-door: OPEN signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

X13258

Pin	Type	Description/Function	Connection
1	E	Data signal	Central body electronic module
2	A	Voltage supply (motor)	Right rear power window motor
3	E	Signal	Right rear power window motor
4	E	Signal	Left rear power window motor
5	A	Voltage supply (motor)	Left rear power window motor
6		Not used	
7		Not used	
8	M	Ground	Ground
9	E	Data signal	Central body electronic module
10	E/A	Data signal	Central body electronic module
11	E/A	Data signal	Central body electronic module

E = Input, A = Output, M = Ground

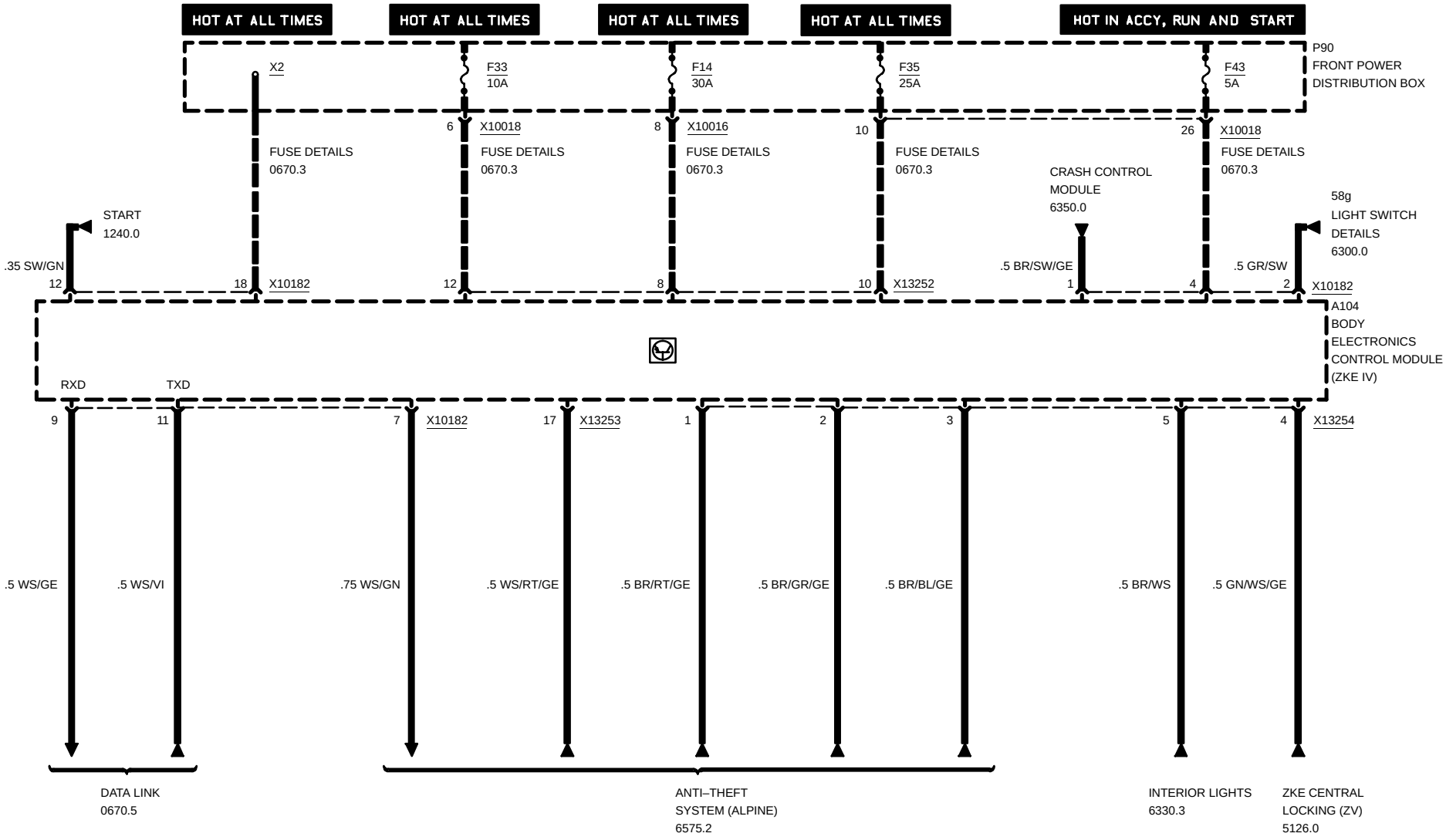


Pin Assignments

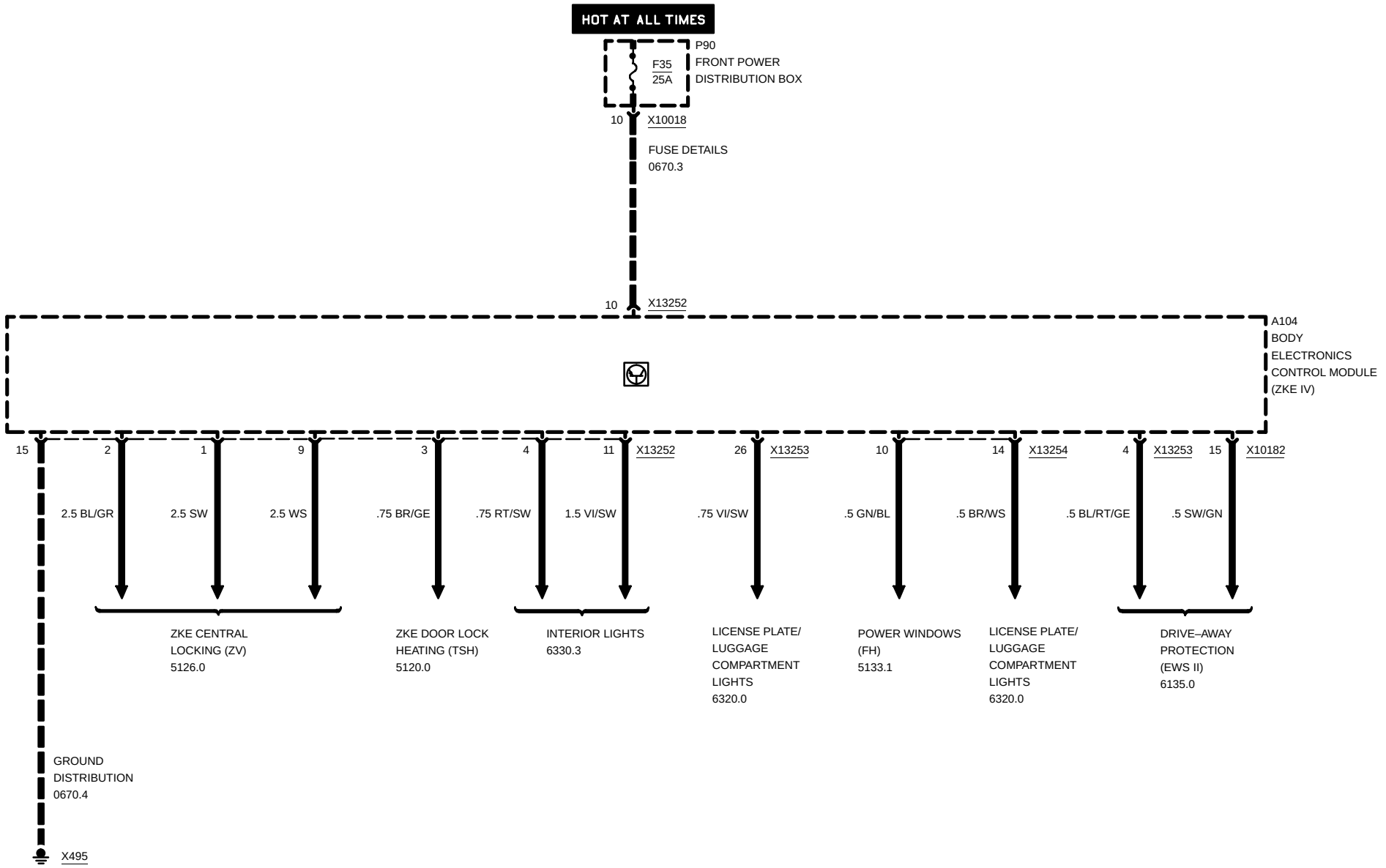
Pin	Type	Description/Function	Connection
12	E	Data signal	Central body electronic module
13	E/A	Data signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

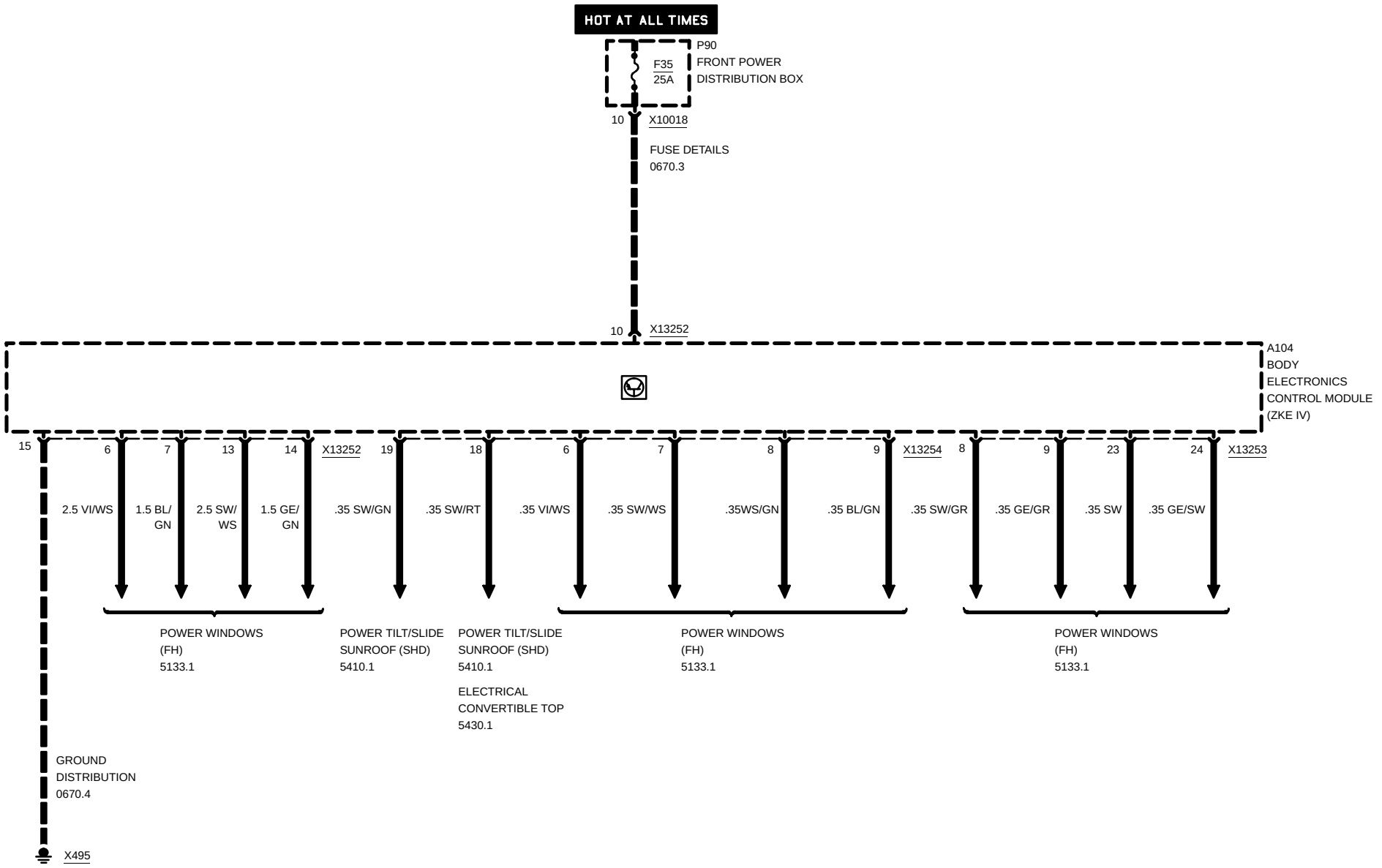
CENTRAL BODY ELECTRONICS (ZKE IV)



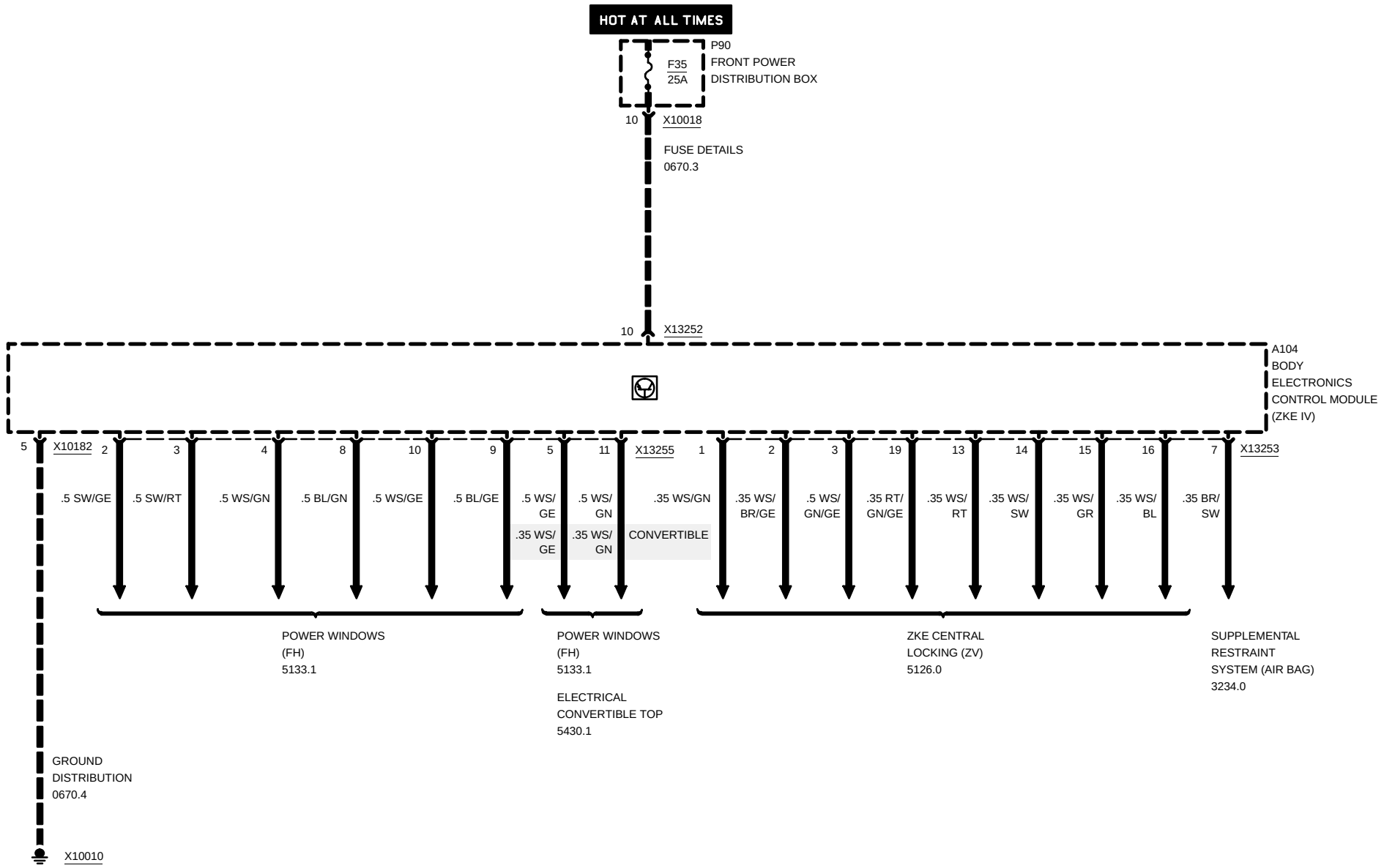
CENTRAL BODY ELECTRONICS (ZKE IV)



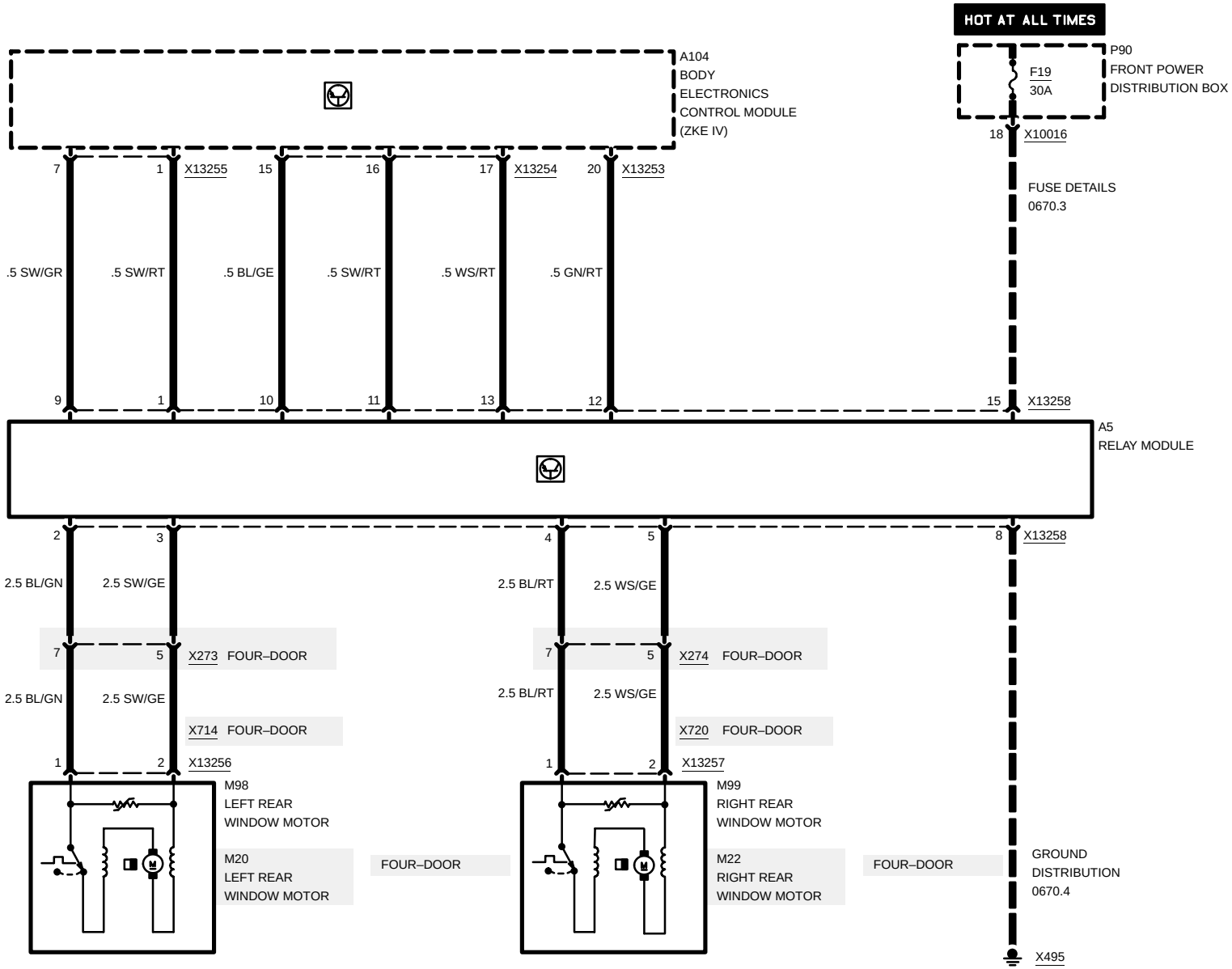
CENTRAL BODY ELECTRONICS (ZKE IV)



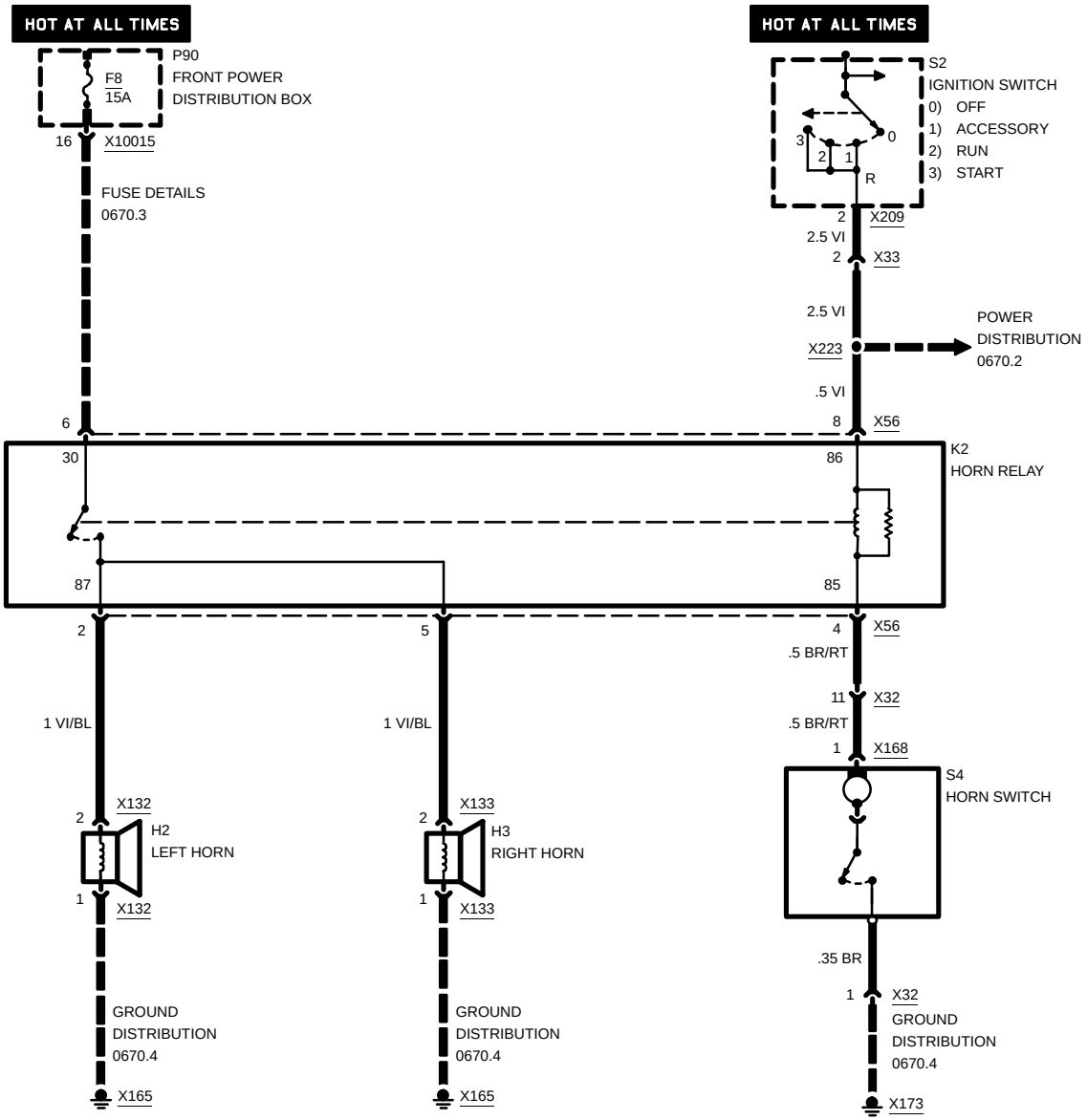
CENTRAL BODY ELECTRONICS (ZKE IV)



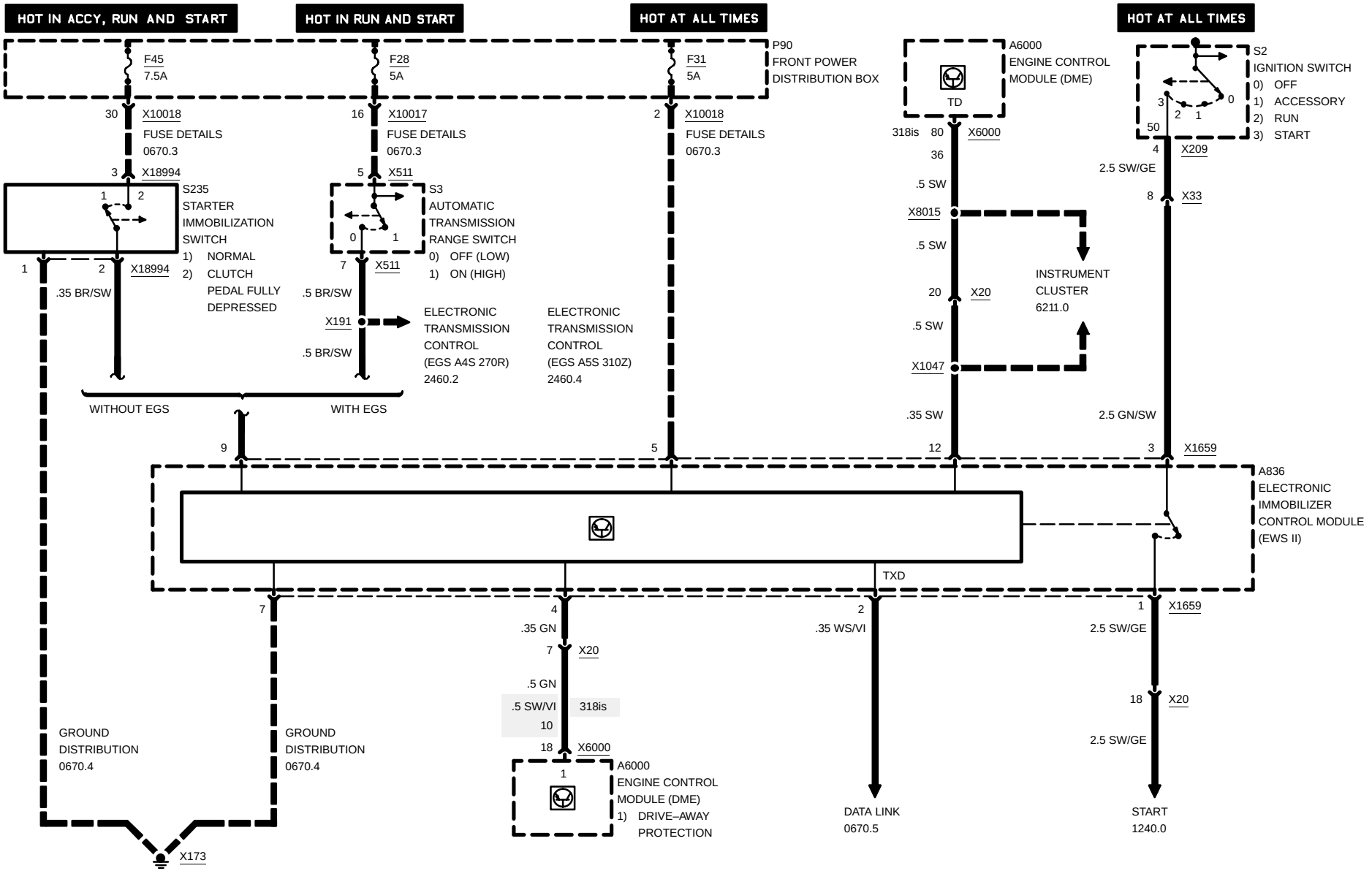
CENTRAL BODY ELECTRONICS (ZKE IV)



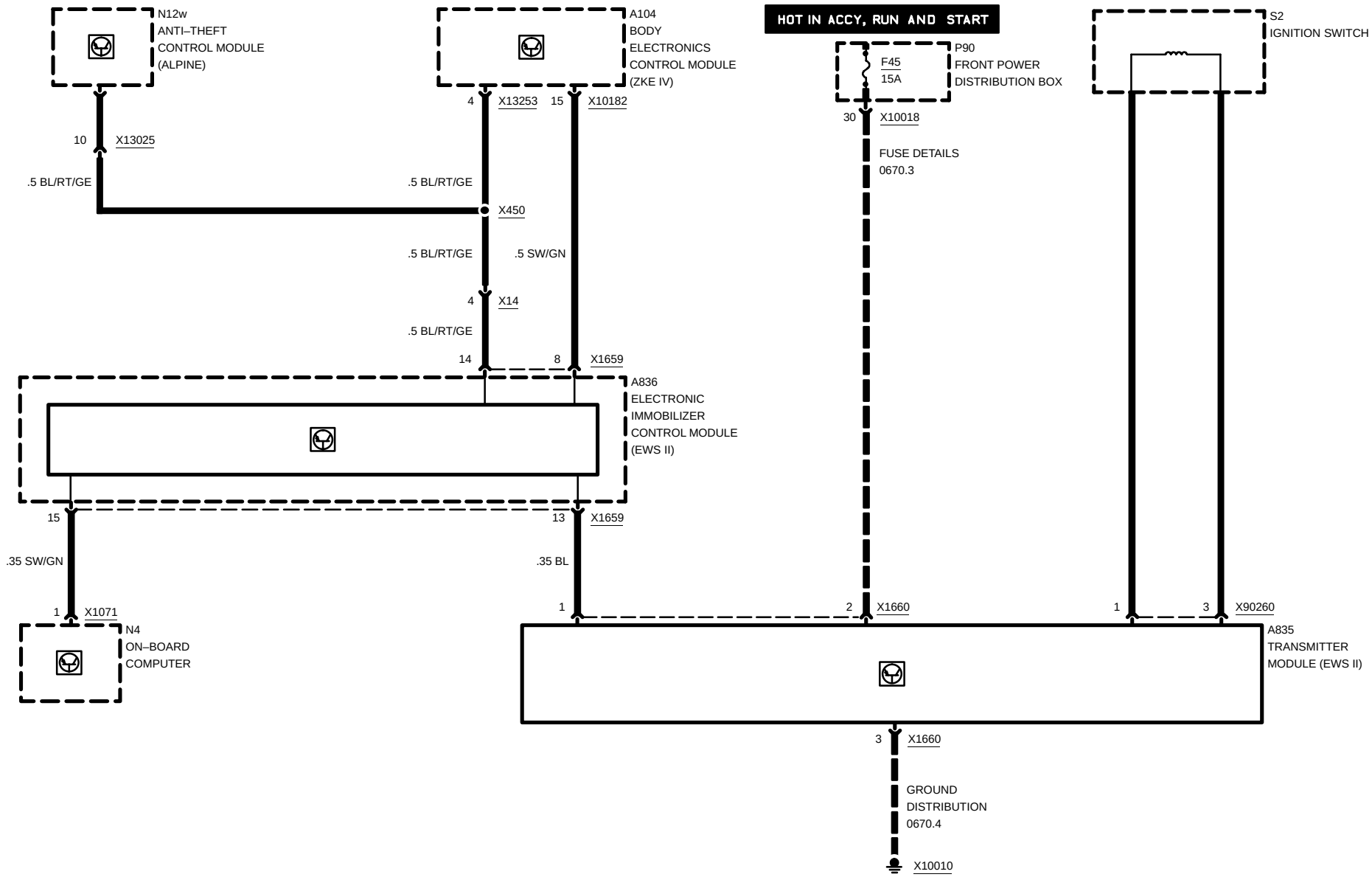
6133.0 HORN


HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F8
15A
16
X10015
FUSE DETAILS
0670.3
HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
3
2
1
0
R
2
X209
2.5 VI
2
X33
2.5 VI
X223
POWER
DISTRIBUTION
0670.2
.5 VI
8
X56
6
30
86
K2
HORN RELAY
87
85
2
5
4
X56
.5 BR/RT
11
X32
.5 BR/RT
1
X168
S4
HORN SWITCH
1 VI/BL
1 VI/BL
2
X132
H2
LEFT HORN
1
X132
2
X133
H3
RIGHT HORN
1
X133
.35 BR
1
X32
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X165
X165
X173

6135.0 DRIVE–AWAY PROTECTION (EWS II)

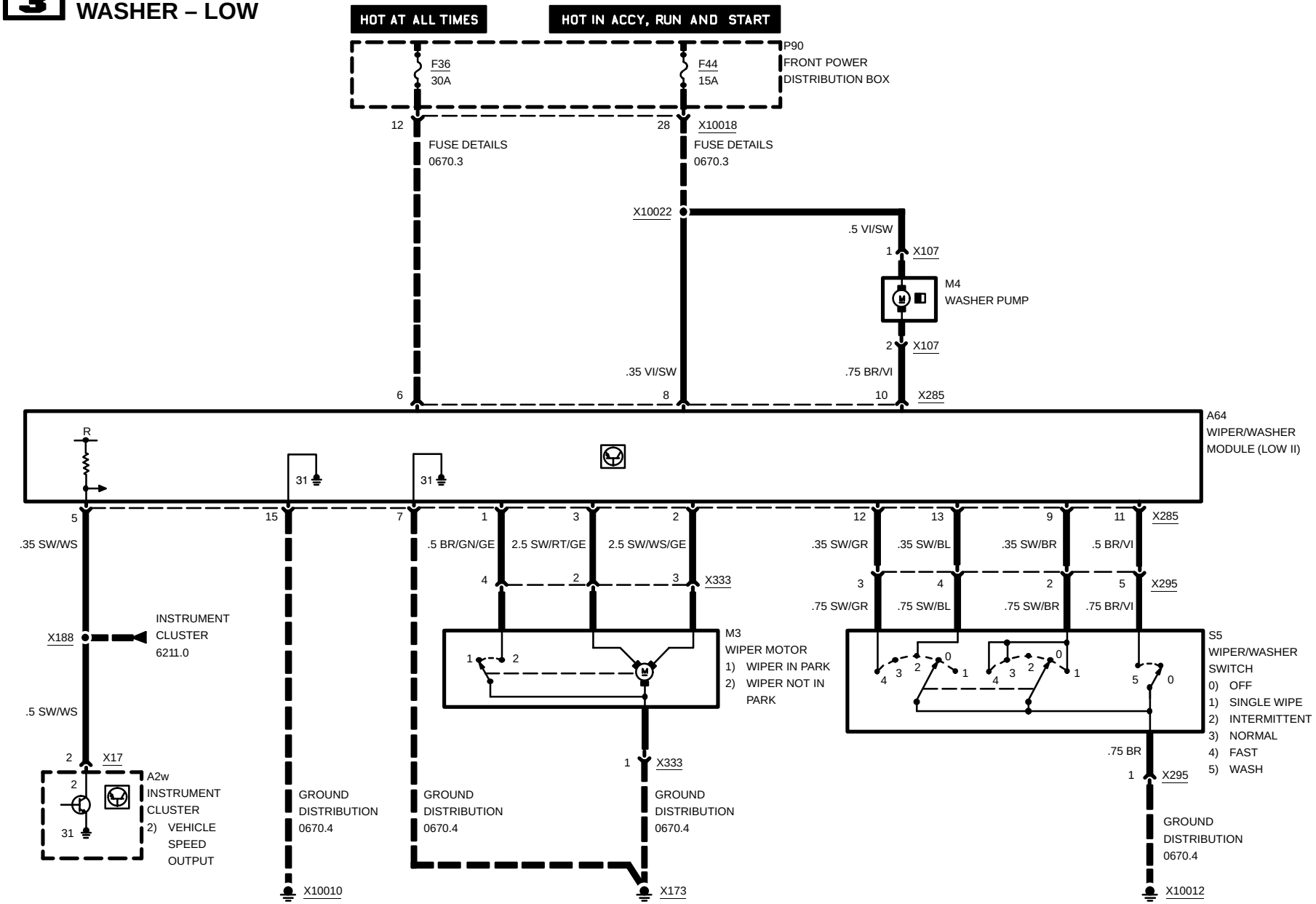


DRIVE–AWAY PROTECTION (EWS II)



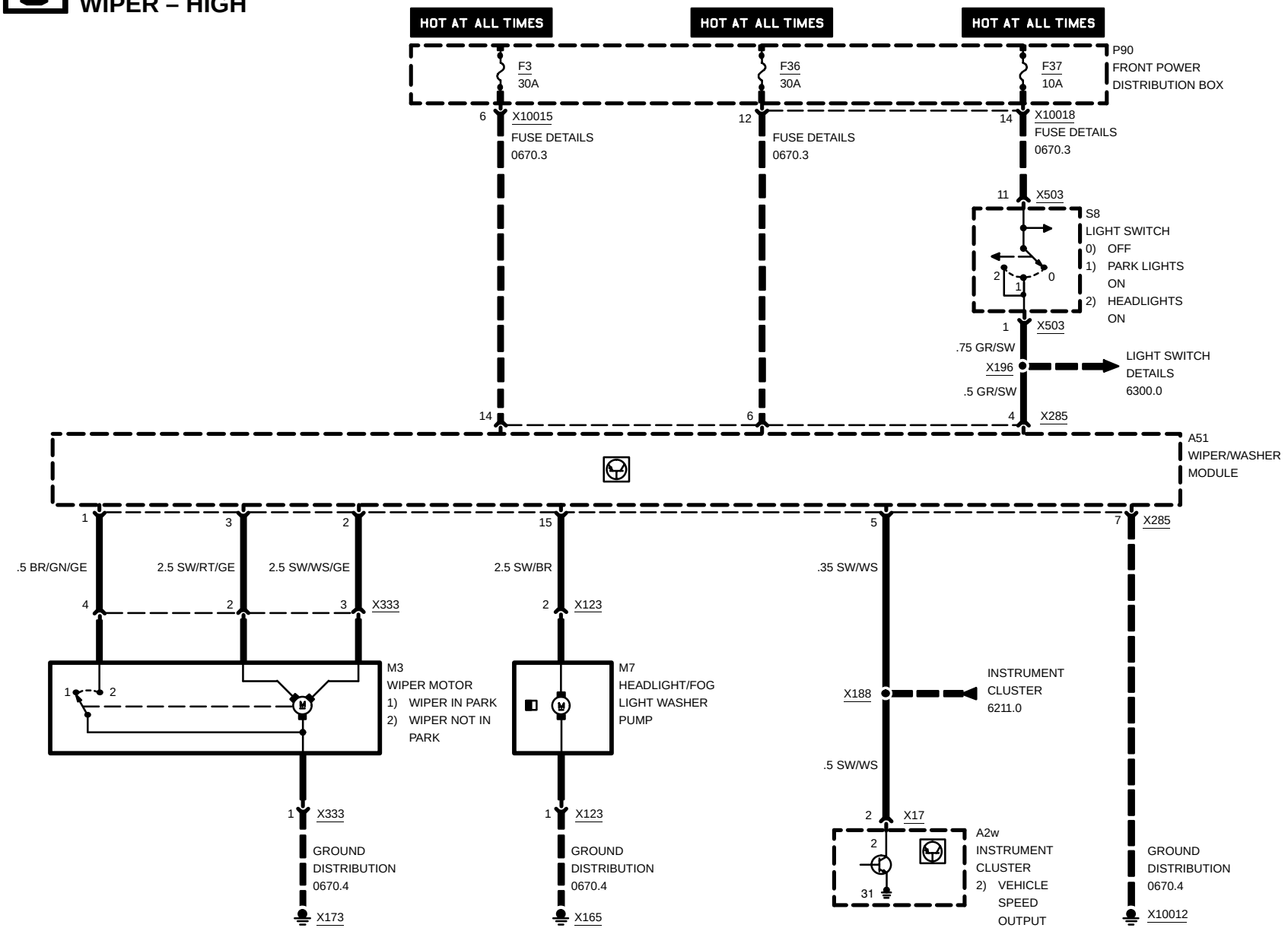
6160.1 WIPER/WASHER MODULE (WWM)

WASHER – LOW



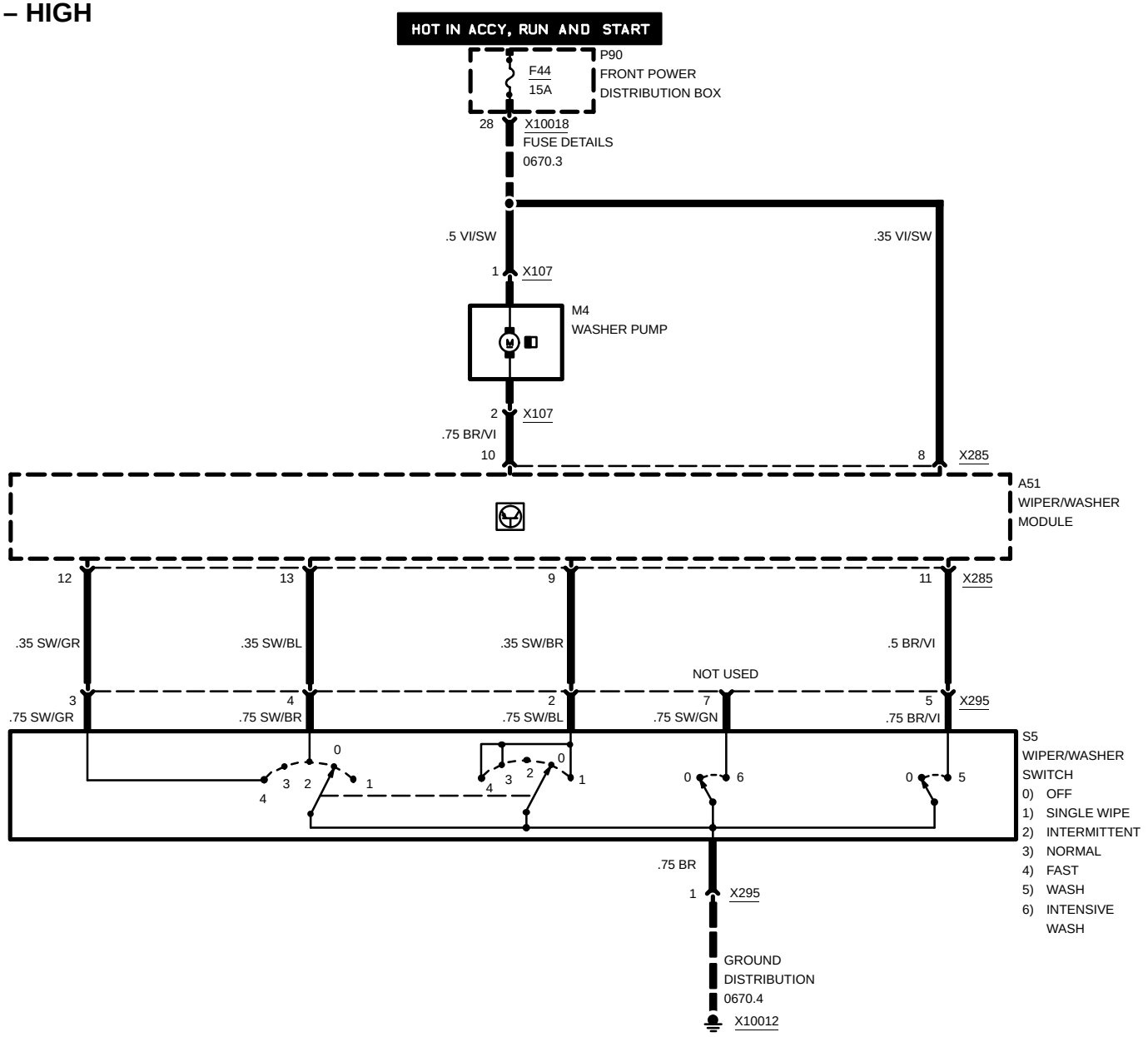
WIPER/WASHER MODULE (WWM)

WIPER – HIGH

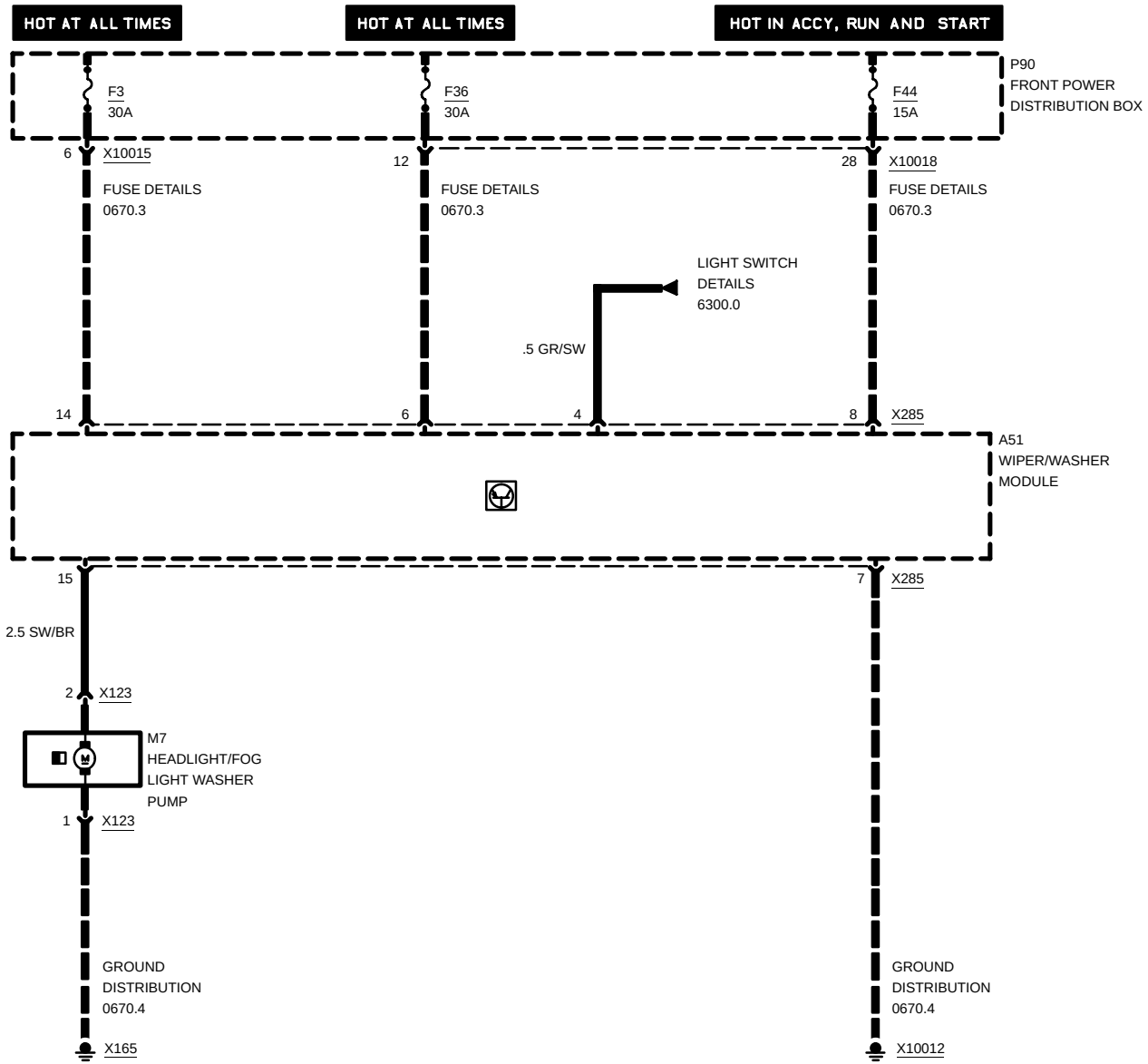


WIPER/WASHER MODULE (WWM)

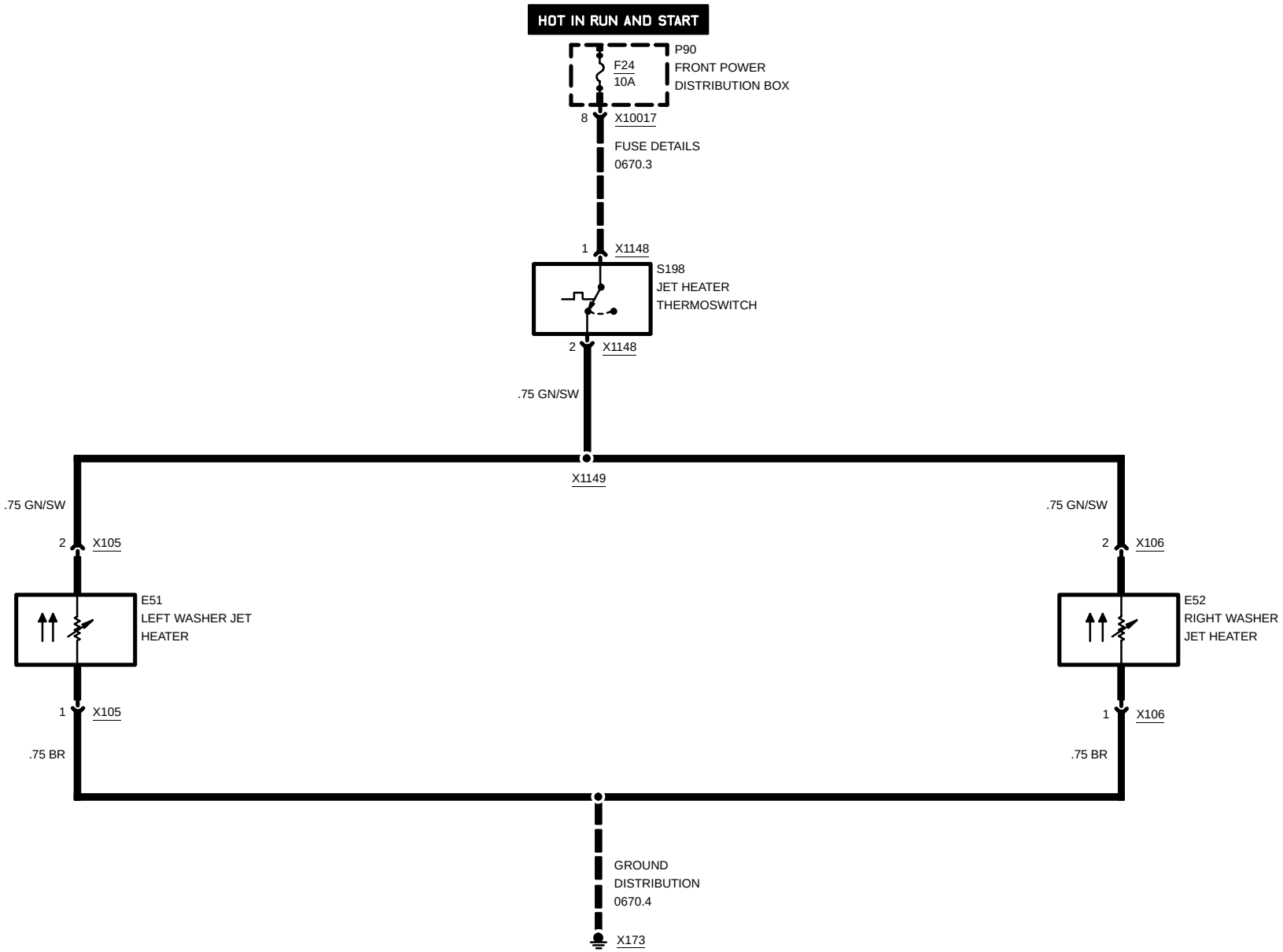
WASHER – HIGH

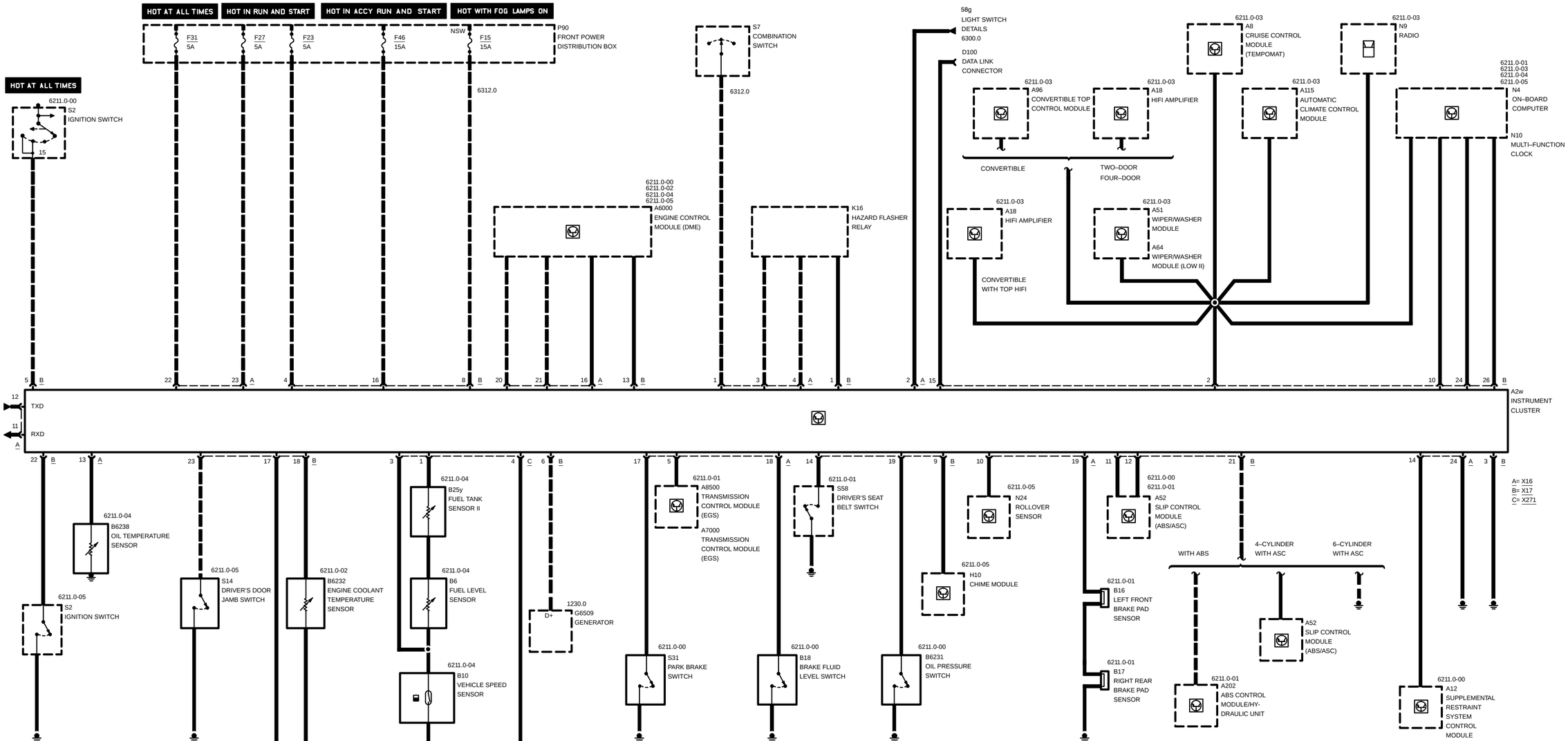


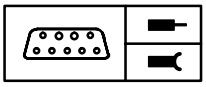
6167.1 HEADLIGHT WASHER (SRA)



6169.0 WINDSHIELD WASHER JET HEATERS




HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN ACCY RUN AND START
HOT WITH FOG LAMPS ON
F31 5A
F27 5A
F23 5A
F46 15A
NSW
F15 15A
P90 FRONT POWER DISTRIBUTION BOX
6312.0
S7 COMBINATION SWITCH
58g LIGHT SWITCH DETAILS 6300.0
D100 DATA LINK CONNECTOR
6211.0-03 A8 CRUISE CONTROL MODULE (TEMPOMAT)
6211.0-03 N9 RADIO
6211.0-01 6211.0-03 6211.0-04 6211.0-05 N4 ON–BOARD COMPUTER
N10 MULTI–FUNCTION CLOCK
6211.0-03 A96 CONVERTIBLE TOP CONTROL MODULE
6211.0-03 A18 HIFI AMPLIFIER
6211.0-03 A115 AUTOMATIC CLIMATE CONTROL MODULE
CONVERTIBLE
TWO–DOOR
FOUR–DOOR
6211.0-00 6211.0-02 6211.0-04 6211.0-05 A6000 ENGINE CONTROL MODULE (DME)
K16 HAZARD FLASHER RELAY
6211.0-03 A18 HIFI AMPLIFIER
6211.0-03 A51 WIPER/WASHER MODULE
A64 WIPER/WASHER MODULE (LOW II)
CONVERTIBLE WITH TOP HIFI
HOT AT ALL TIMES
6211.0-00 S2 IGNITION SWITCH
15
TXD
RXD
A2w INSTRUMENT CLUSTER
6211.0-04 B6238 OIL TEMPERATURE SENSOR
6211.0-05 S2 IGNITION SWITCH
6211.0-05 S14 DRIVER'S DOOR JAMB SWITCH
6211.0-02 B6232 ENGINE COOLANT TEMPERATURE SENSOR
6211.0-04 B25y FUEL TANK SENSOR II
6211.0-04 B6 FUEL LEVEL SENSOR
6211.0-04 B10 VEHICLE SPEED SENSOR
1230.0 G6509 GENERATOR
D+
6211.0-01 A8500 TRANSMISSION CONTROL MODULE (EGS)
A7000 TRANSMISSION CONTROL MODULE (EGS)
6211.0-00 S31 PARK BRAKE SWITCH
6211.0-01 S58 DRIVER'S SEAT BELT SWITCH
6211.0-00 B18 BRAKE FLUID LEVEL SWITCH
6211.0-05 N24 ROLLOVER SENSOR
6211.0-05 H10 CHIME MODULE
6211.0-00 B6231 OIL PRESSURE SWITCH
6211.0-00 6211.0-01 A52 SLIP CONTROL MODULE (ABS/ASC)
6211.0-01 B16 LEFT FRONT BRAKE PAD SENSOR
6211.0-01 B17 RIGHT REAR BRAKE PAD SENSOR
WITH ABS
4–CYLINDER WITH ASC
6–CYLINDER WITH ASC
A52 SLIP CONTROL MODULE (ABS/ASC)
6211.0-01 A202 ABS CONTROL MODULE/HY-DRAULIC UNIT
6211.0-00 A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
A= X16
B= X17
C= X271

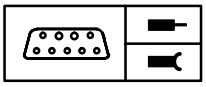


Pin Assignments

X16

Pin	Type	Description/Function	Connection
1	E	High beam indicator control	Combination switch
2	E	Terminal 58g, instrument illumination power	Dimmer
3	E	Right turn signal indicator control	Hazard flasher relay
4	E	Left turn signal indicator control	Hazard flasher relay
5	E	Warning lamp for EGS fault (information signal transmission oil temperature)	Transmission control module (EGS)
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10	E	Convertible: Rollover signal	Rollover sensor
11	A	RxD diagnostic data link	Data link connector
12	E/A	TxD diagnostic data link	Data link connector
13	E	Oil temperature	Engine oil temperature sensor
14	E	Airbag warning lamp (SRS) control	Supplemental restraint system control module
15		Not used	
16	E	“Check engine” indicator control	Engine control module (DME)
17	E	Park brake warning lamp control	Park brake switch
18	E	Brake fluid warning lamp control	Brake fluid level switch
19	E	Brake pad wear warning lamp control	Brake pad sensors
20	E	Crankshaft RPM speed signal TD	Engine control module (DME)
21	E	Fuel consumption signal + KVA	Engine control module (DME)
22	E	Voltage supply, terminal 30	Front power distribution box, fuse 31
23	E	Voltage supply, terminal 15 for indicator and warning lamps	Front power distribution box, fuse 27
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground point
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

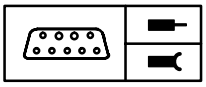


Pin Assignments

X17

Pin	Type	Description/Function	Connection
1	E	Trailer turn signal indicator control	Hazard flasher relay
2	A	Vehicle speed signal	Various control modules
3	M	Ground supply, terminal 31 for indicator and warning lamps	Ground point
4	E	Voltage supply, terminal 15 for instrument cluster electronics	Front power distribution box, fuse 23
5	E	Voltage supply, terminal 15 for battery charge indicator	Ignition switch, terminal 15
6	E	Ground supply, terminal 61 for battery charge indicator	Generator
7		Not used	
8	E	Fog light indicator control	Front power distribution box, fuse 15
9	A	Sound tone signal	Chime module
10	A	Information signal, fuel tank content	On-board computer
11	E	Slip control system warning lamp (ABS) control	Slip control module (ABS) (323i, 328i, M3)
12	E	ASC signal	ASC control module
13	A	TI-measurement signal (fuel consumption)	Engine control module (DME)
14	E	Seat belt warning lamp control	Driver’s seat belt switch
15	E	S/A reset/service interval indicator reset	Data link connector
16	E	Voltage supply, terminal R	Front power distribution box, fuse 46
17	A	Coolant temperature sensor	Coolant temperature sensor
18	E	Coolant temperature sensor	Coolant temperature sensor
19	E	Oil pressure warning lamp control	Oil pressure switch
20		Not used	
21	E	Ground	Ground point (with ASC)
21	E	Slip control system warning lamp (ABS) control	Slip control module (ABS/ASC) (323i, 328i, M3) ABS control module (ABS)
22	E	Ignition key warning/audible ignition key warning	Ignition switch
23	E	Driver’s door open	Driver’s door jamb switch

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
24	A	Dimmer signal/brightness information signal for connected control modules	On-board computer or multi-function clock
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

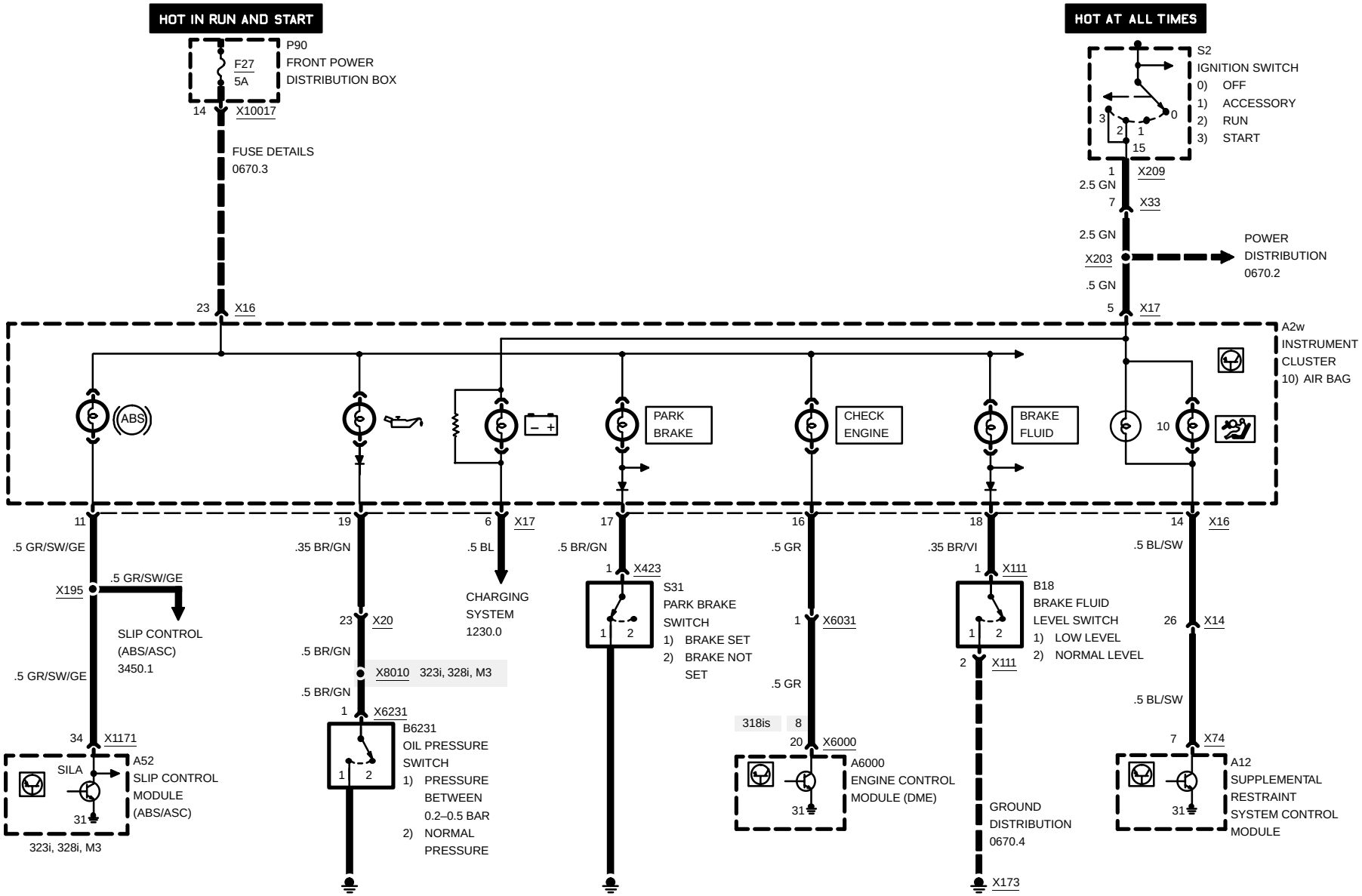
X271

Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal TW	Vehicle speed sensor
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	

E = Input, A = Output, M = Ground

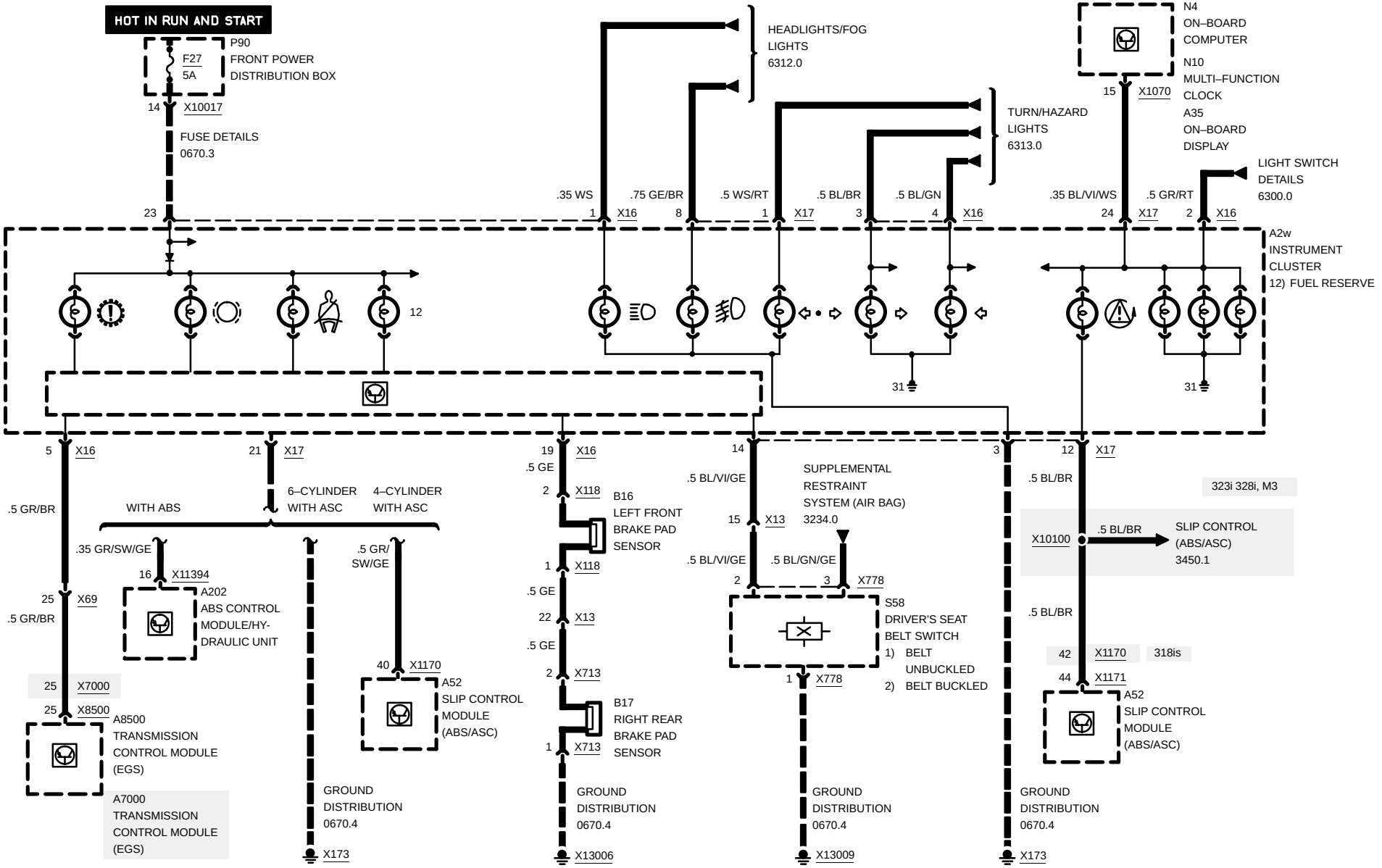
INSTRUMENT CLUSTER

INDICATORS



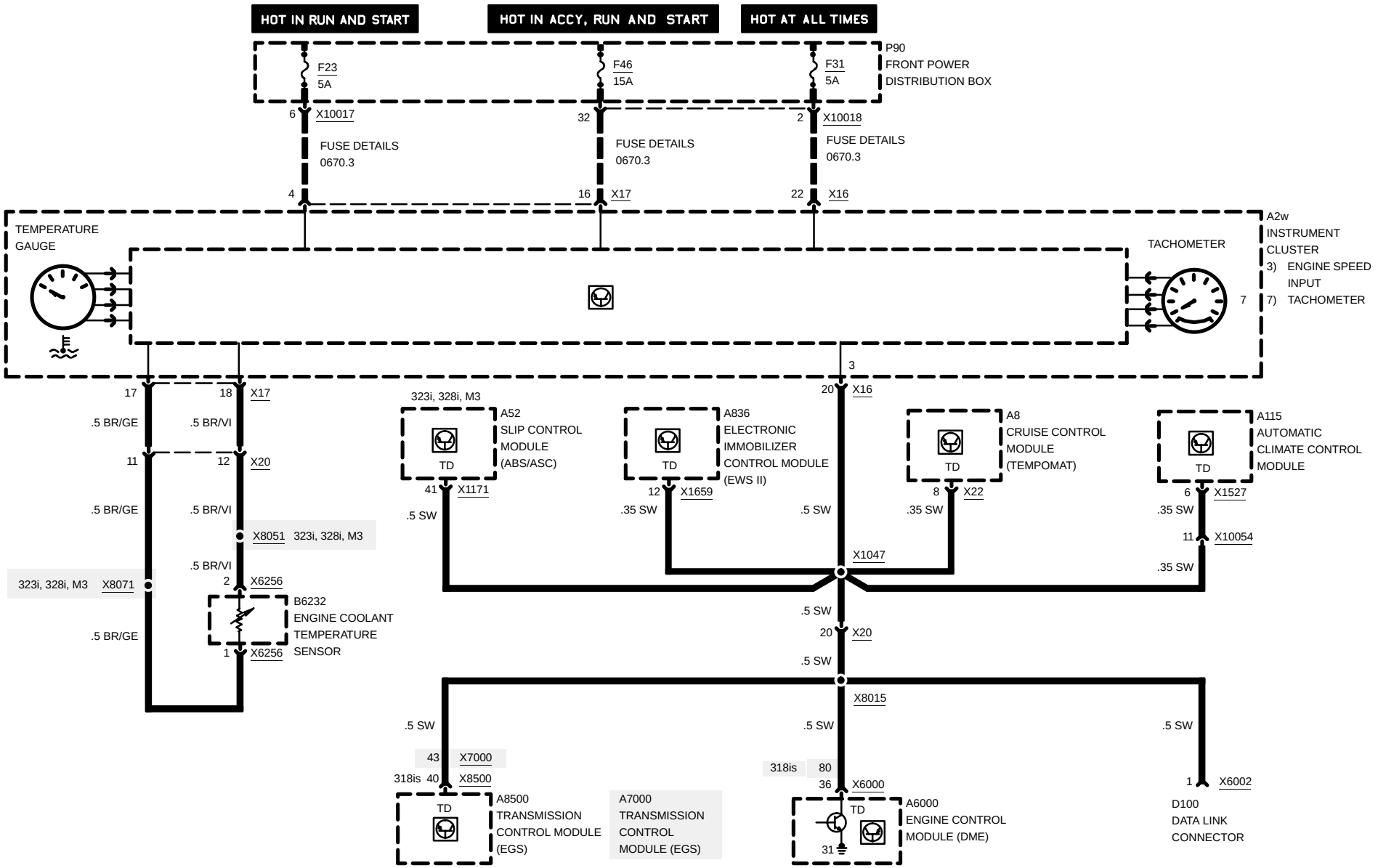
INSTRUMENT CLUSTER

INDICATORS



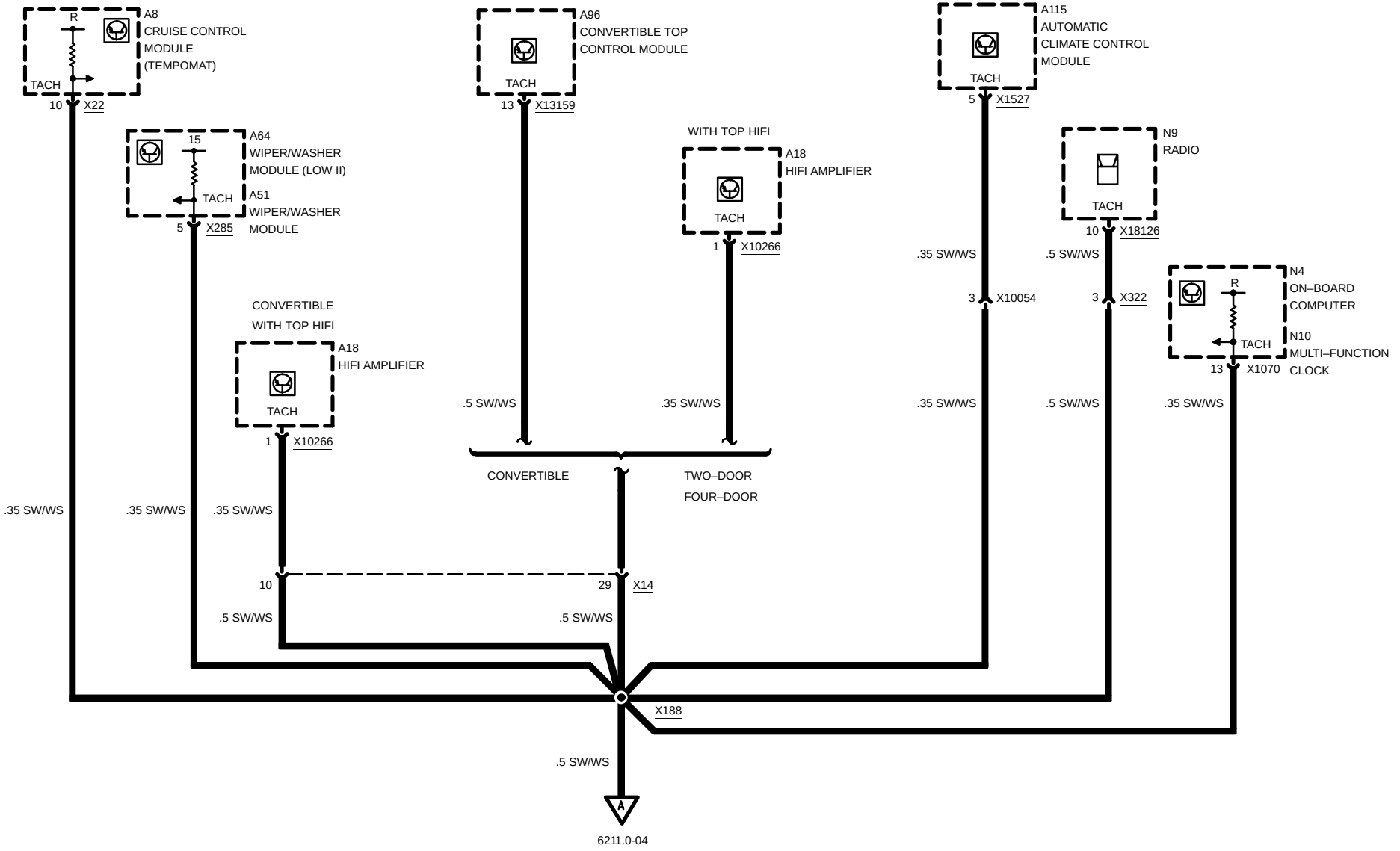
INSTRUMENT CLUSTER

INDICATORS



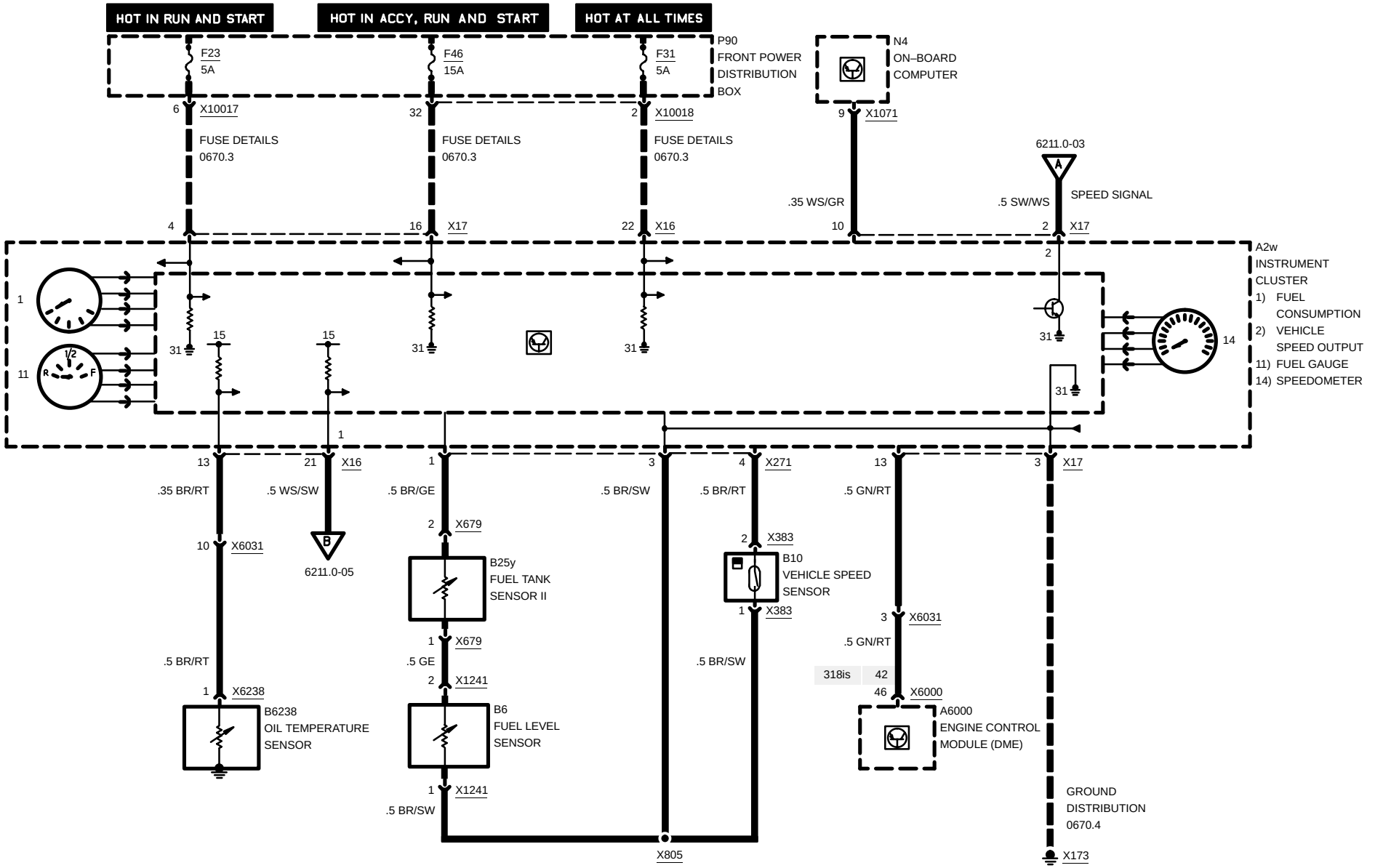
INSTRUMENT CLUSTER

SIGNAL–OUTPUT SPEEDOMETER



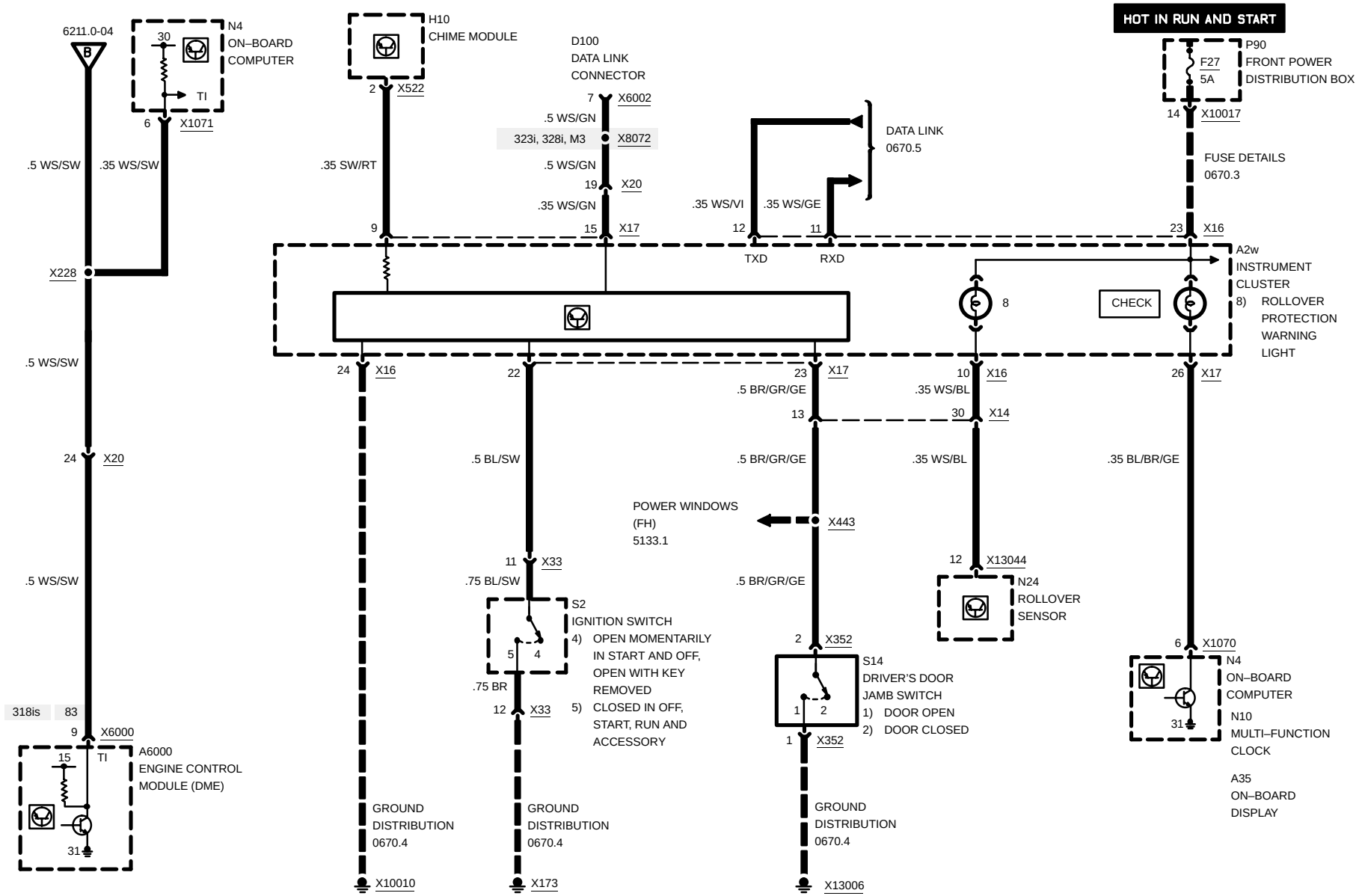
INSTRUMENT CLUSTER

INDICATORS

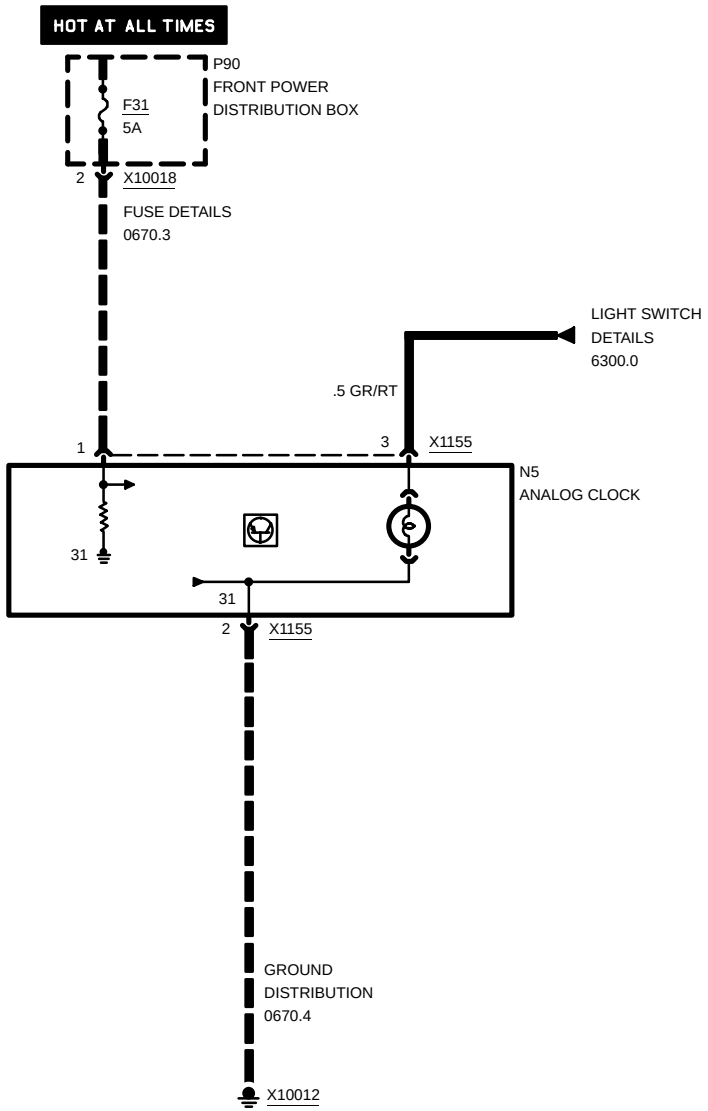


INSTRUMENT CLUSTER

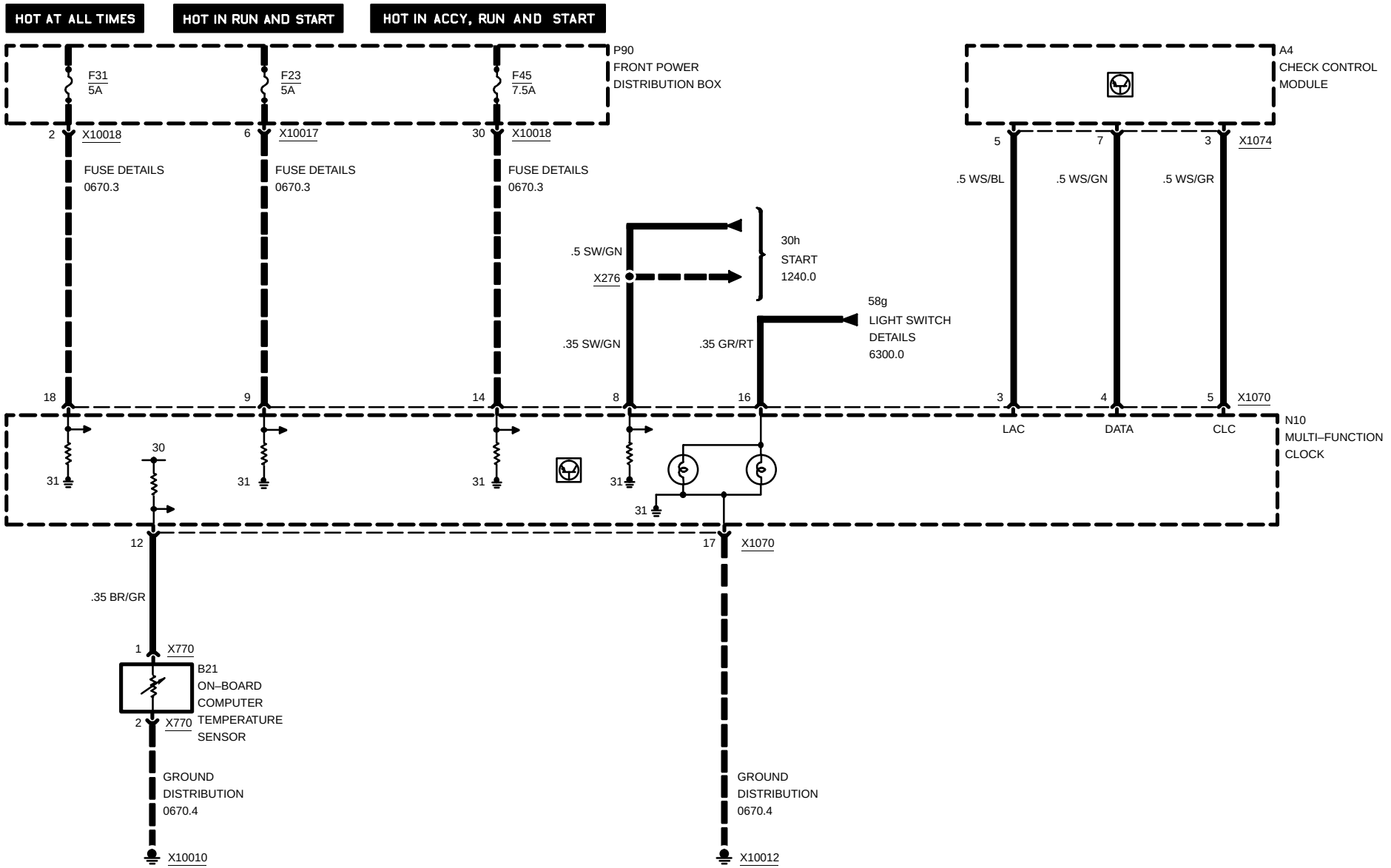
INDICATORS



6213.1 ANALOG CLOCK

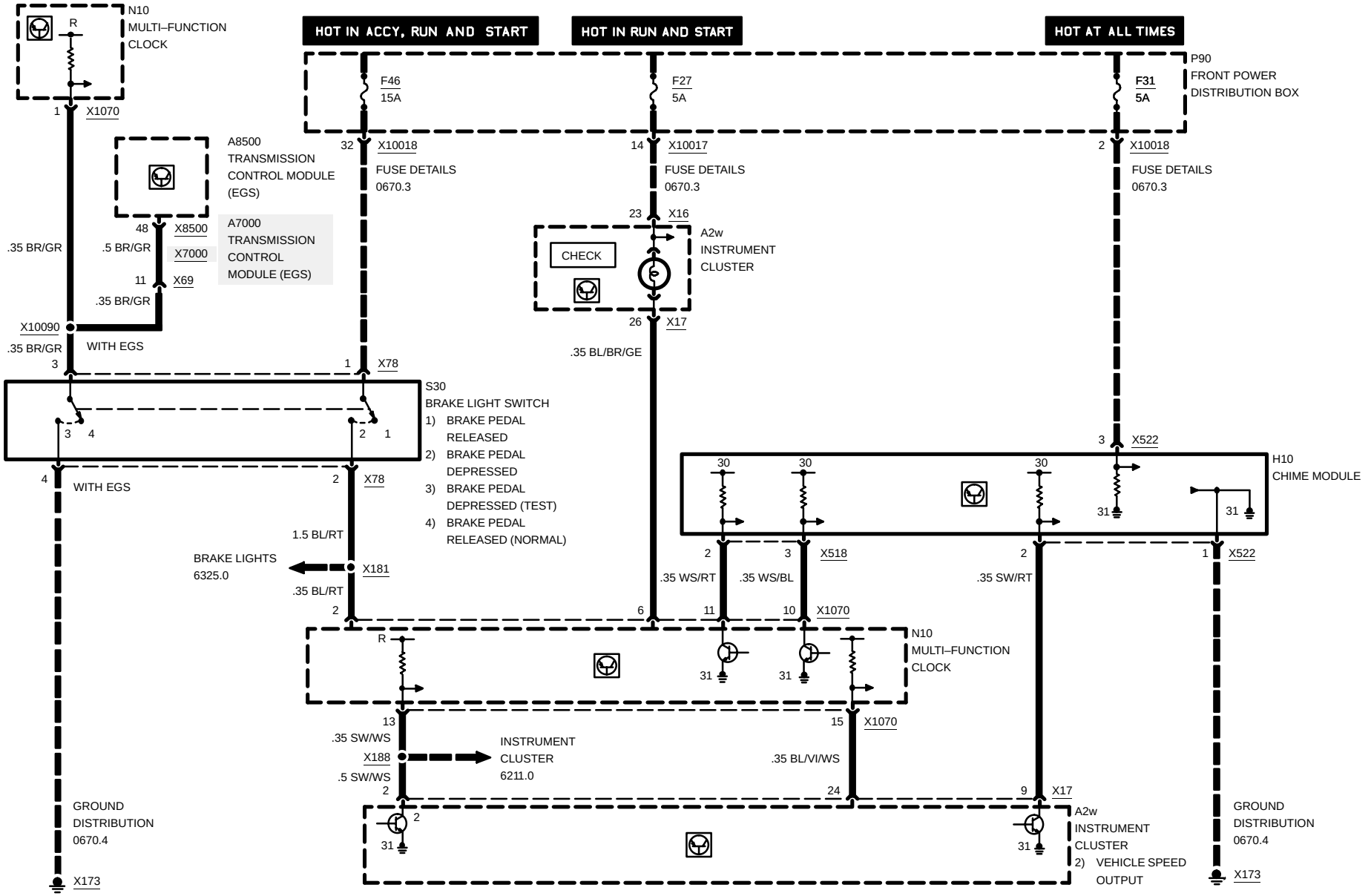


6213.2 MULTI–FUNCTION CLOCK

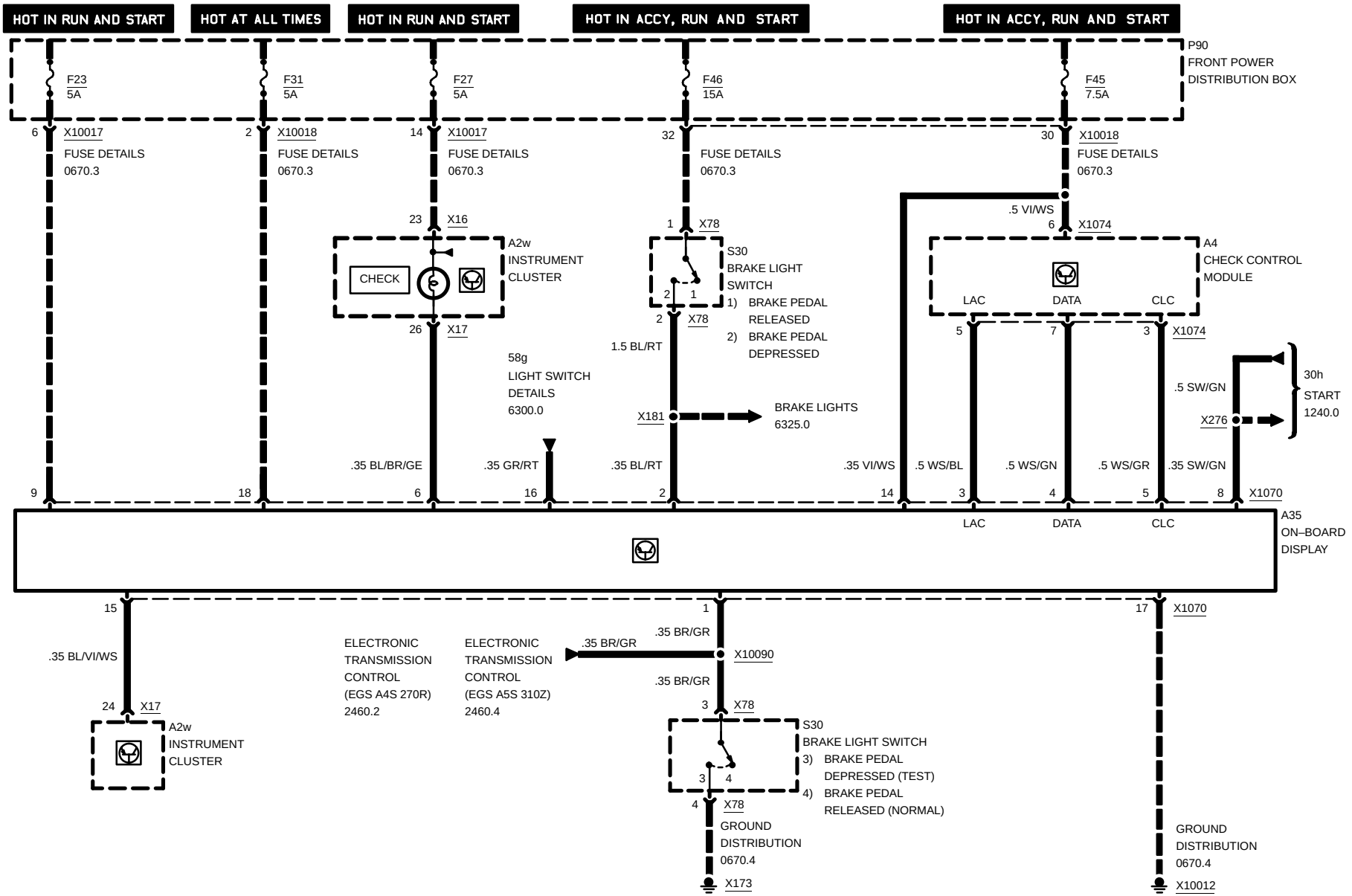


MULTI–FUNCTION CLOCK

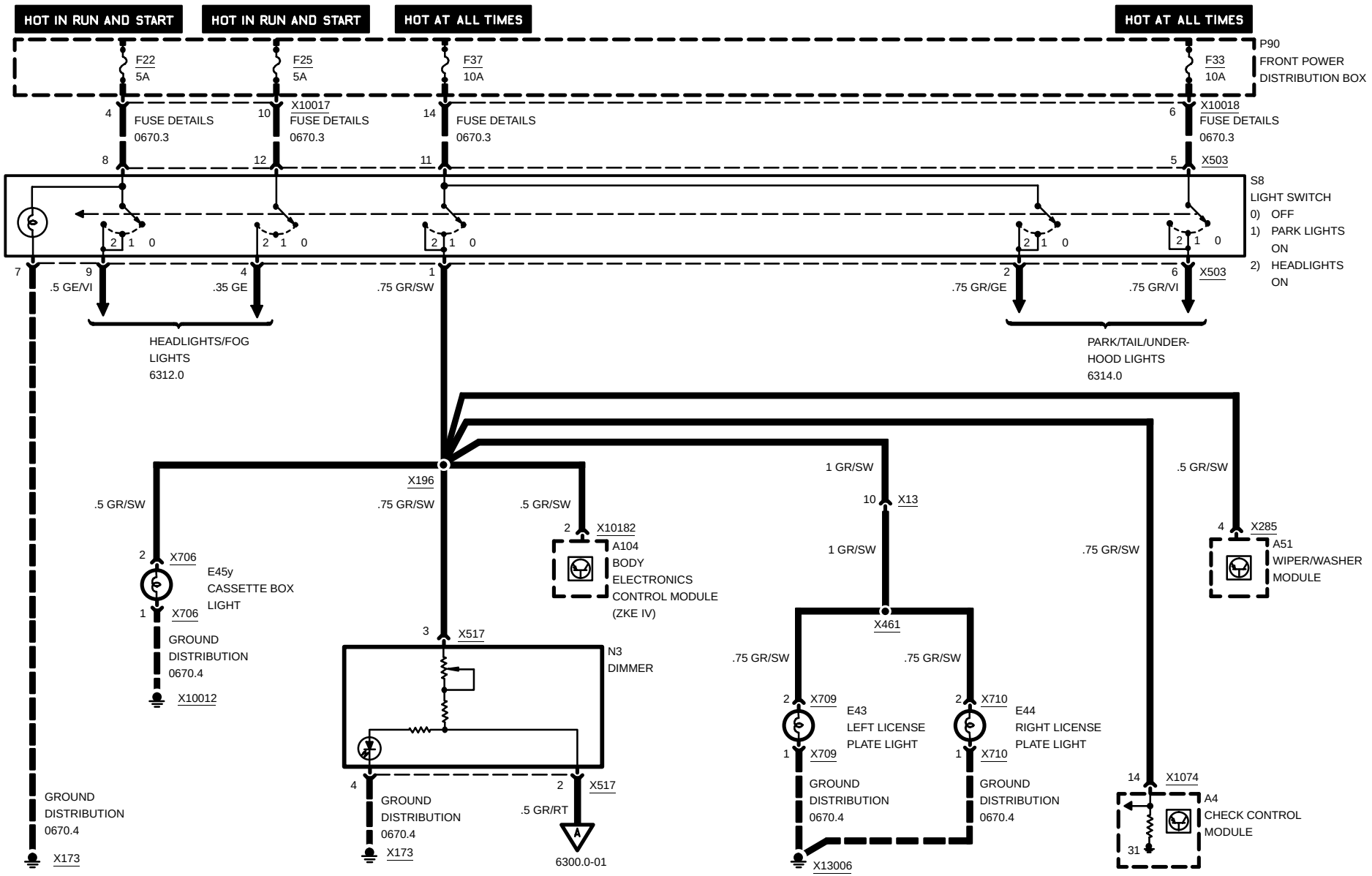
CHIME, BRAKE LIGHT SWITCH



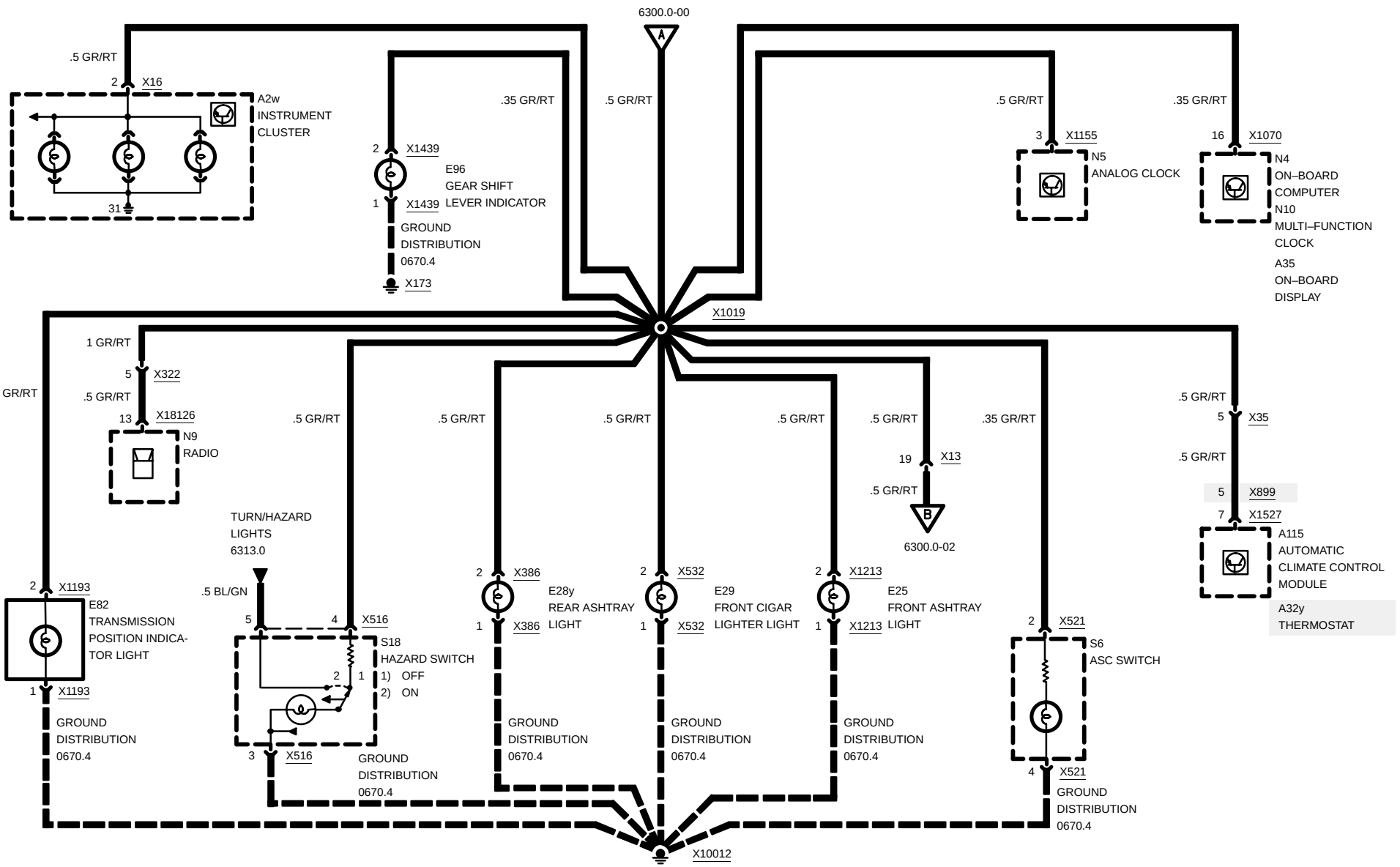
6214.0 ON–BOARD DISPLAY



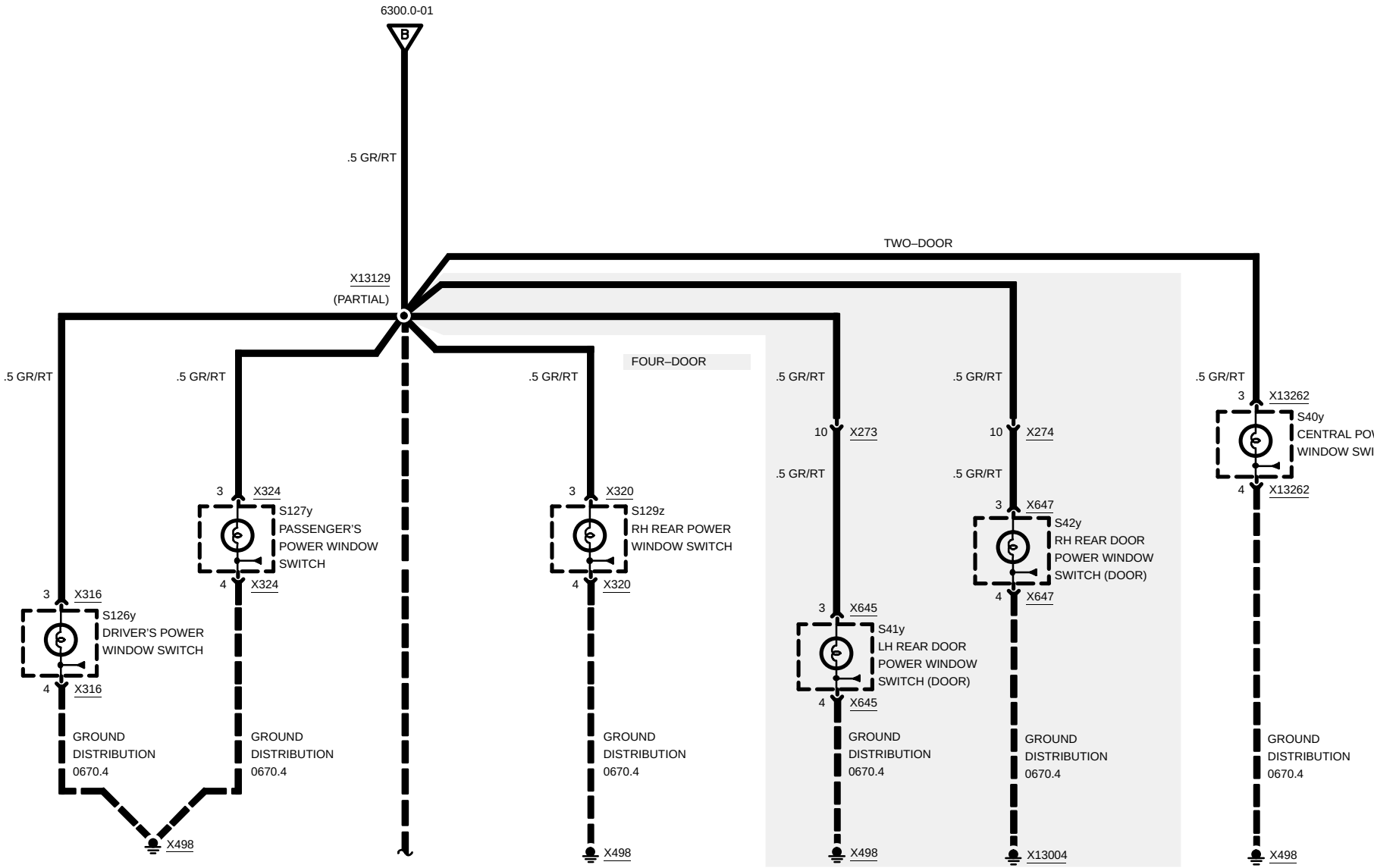
6300.0 LIGHT SWITCH DETAILS

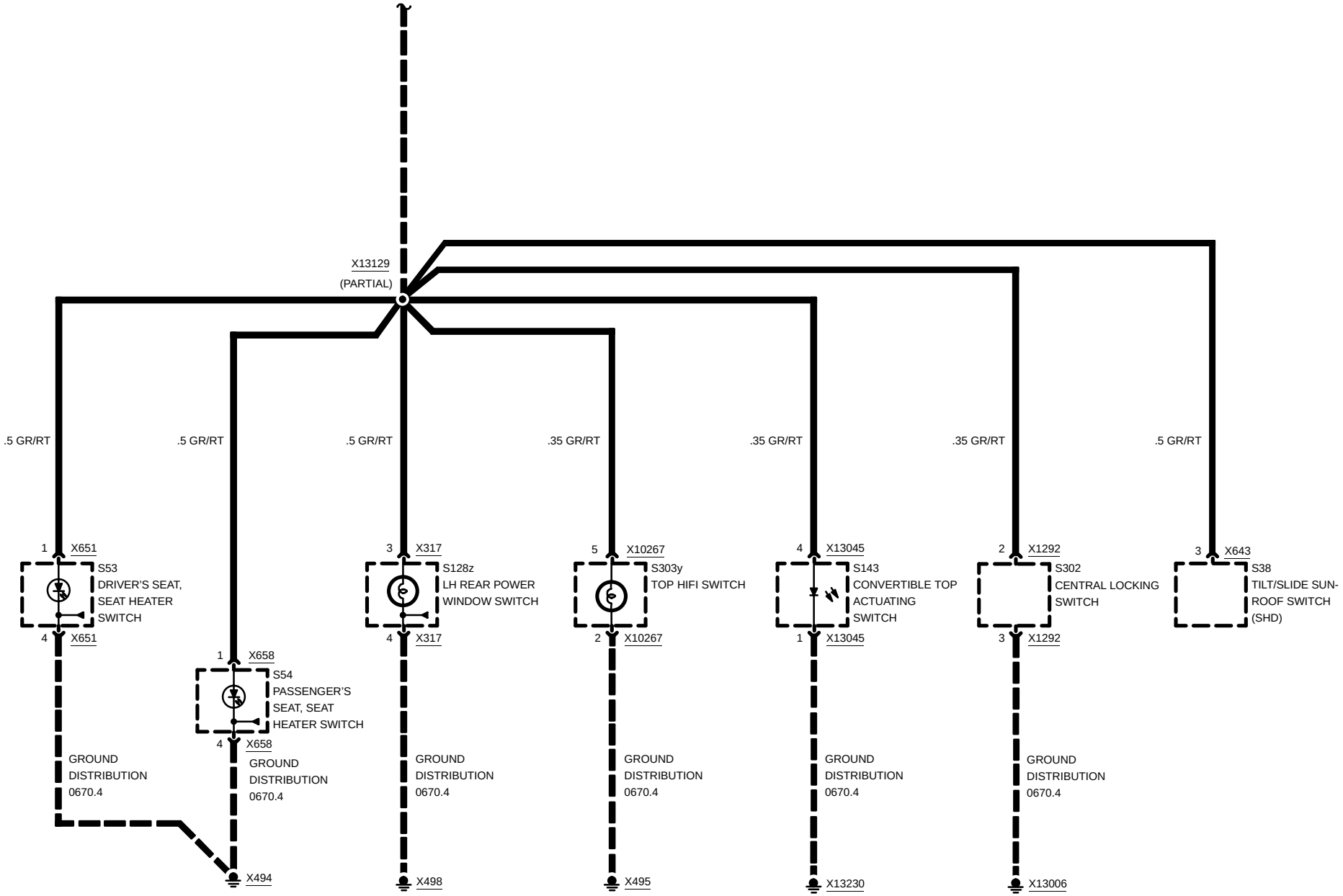


LIGHT SWITCH DETAILS

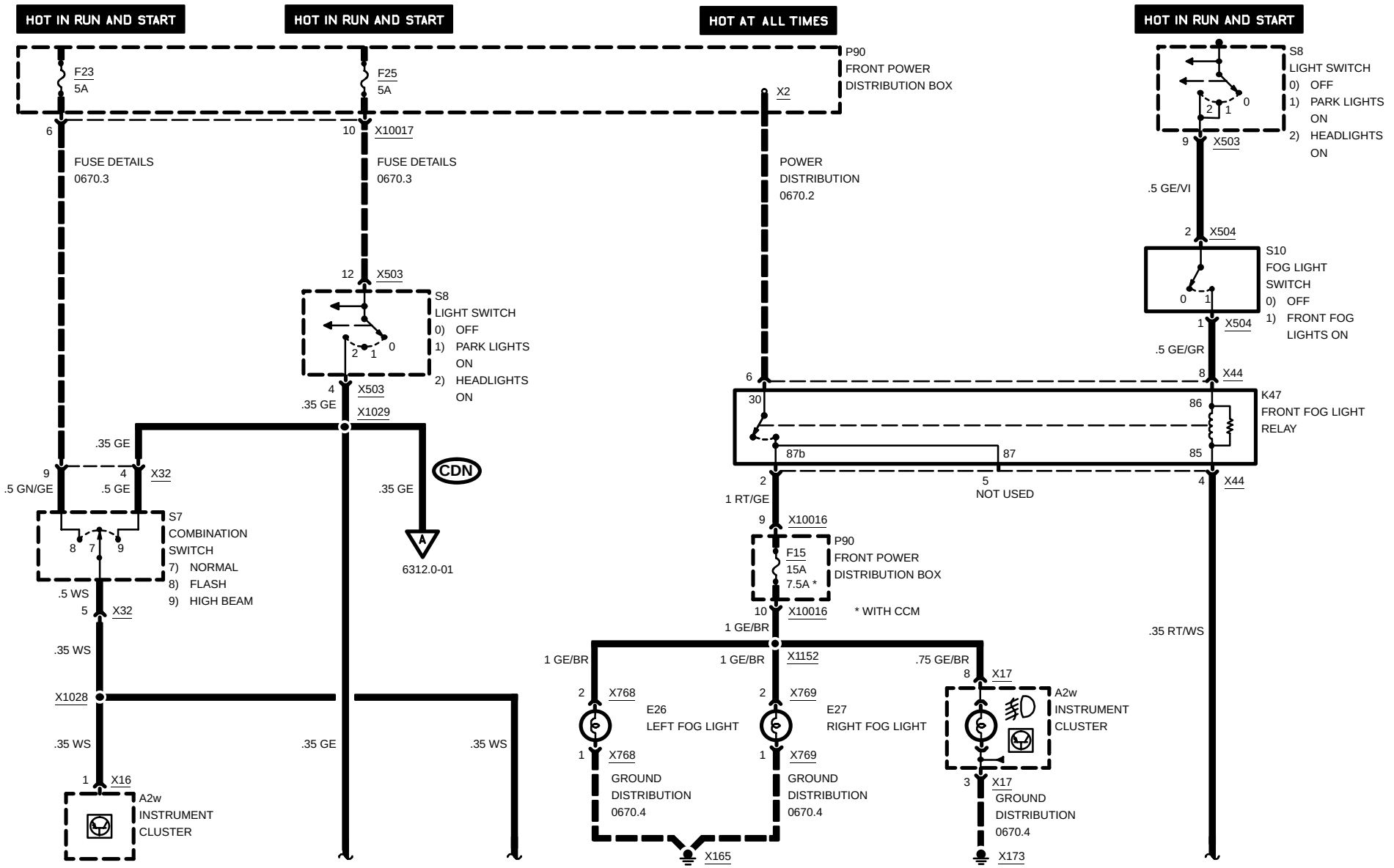


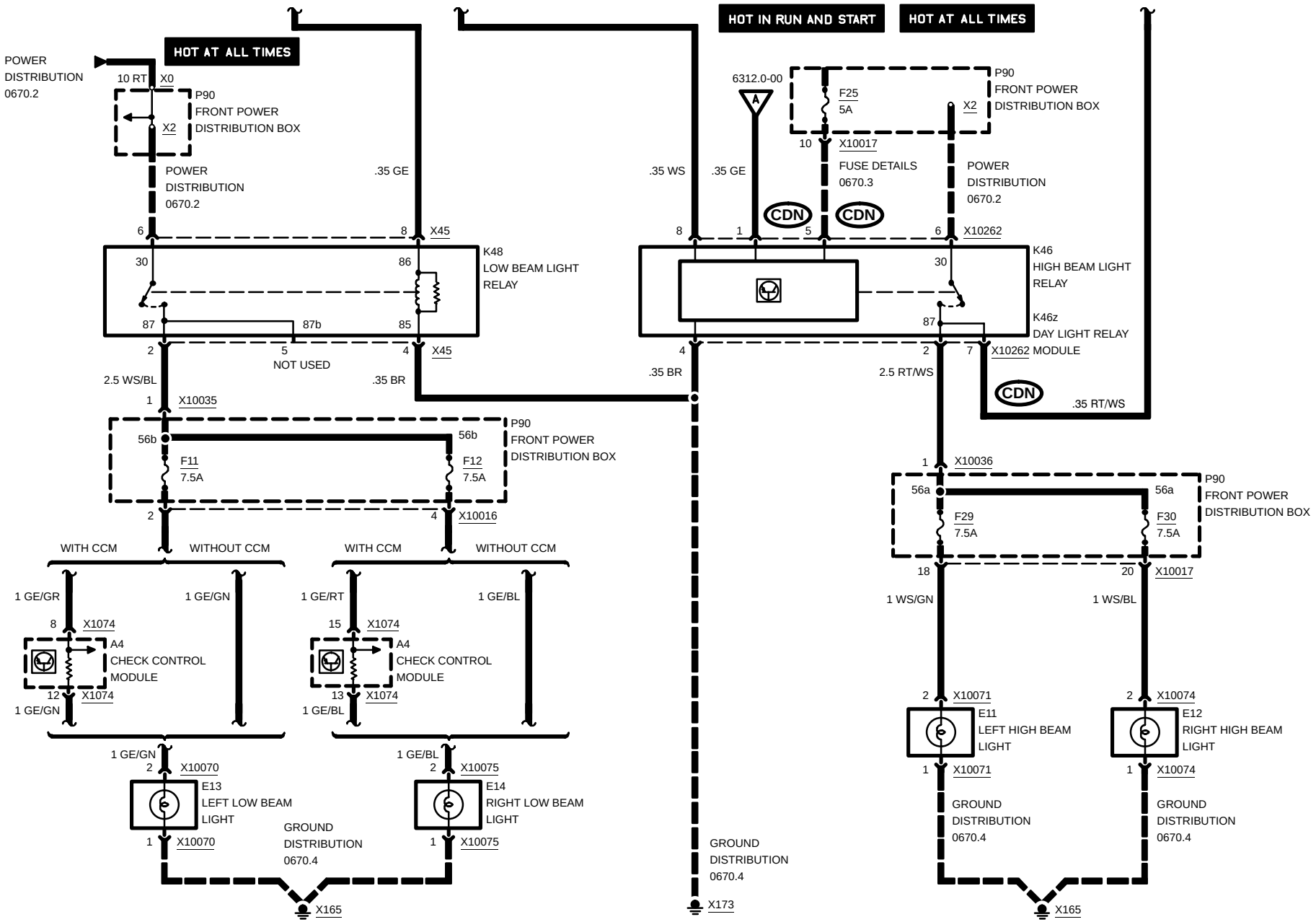
LIGHT SWITCH DETAILS



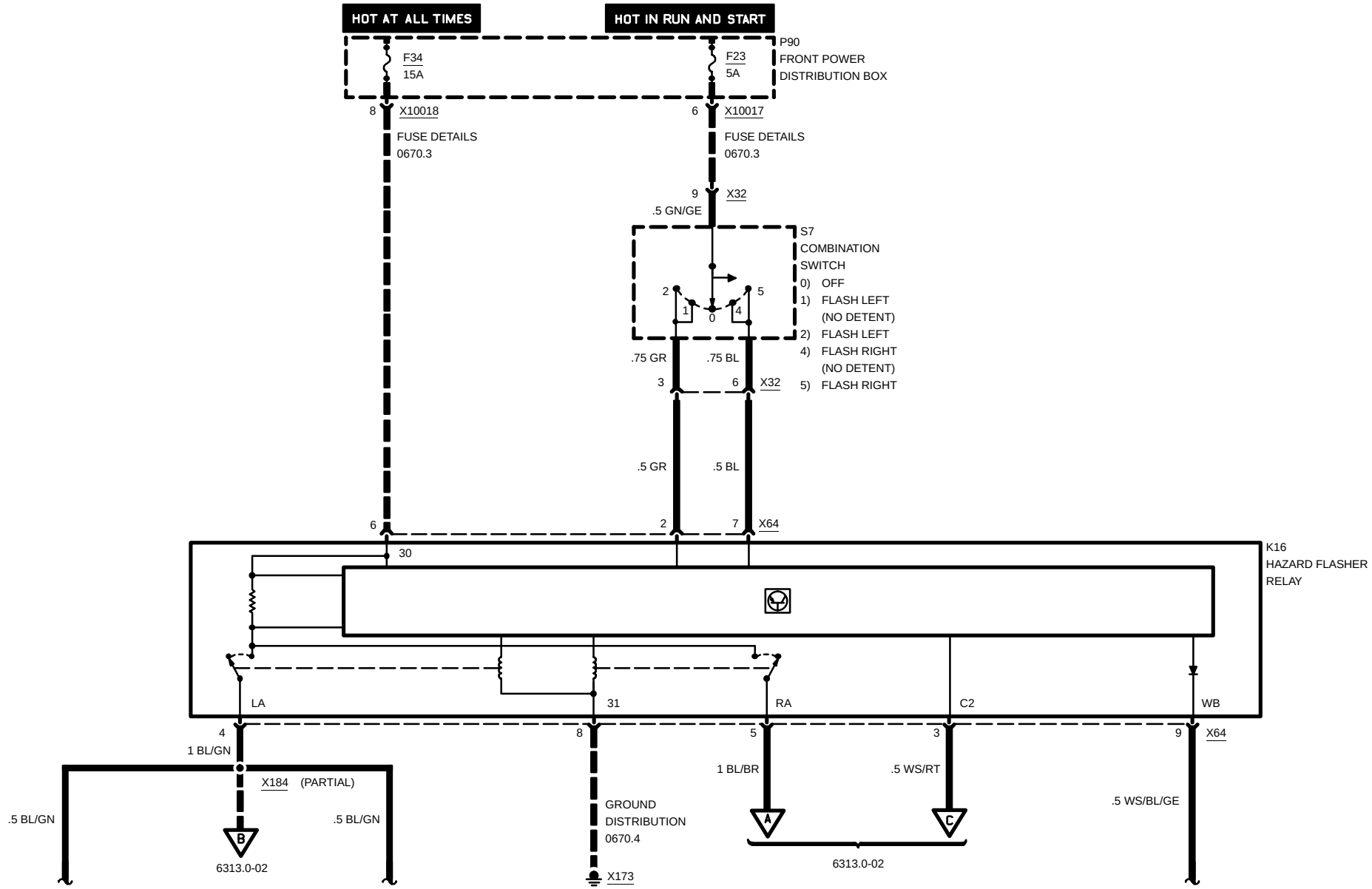

X13129
(PARTIAL)
.5 GR/RT
.5 GR/RT
.5 GR/RT
.35 GR/RT
.35 GR/RT
.35 GR/RT
.5 GR/RT
1 X651
S53
DRIVER'S SEAT, SEAT HEATER SWITCH
4 X651
GROUND DISTRIBUTION 0670.4
X494
1 X658
S54
PASSENGER'S SEAT, SEAT HEATER SWITCH
4 X658
GROUND DISTRIBUTION 0670.4
3 X317
S128z
LH REAR POWER WINDOW SWITCH
4 X317
GROUND DISTRIBUTION 0670.4
X498
5 X10267
S303y
TOP HIFI SWITCH
2 X10267
GROUND DISTRIBUTION 0670.4
X495
4 X13045
S143
CONVERTIBLE TOP ACTUATING SWITCH
1 X13045
GROUND DISTRIBUTION 0670.4
X13230
2 X1292
S302
CENTRAL LOCKING SWITCH
3 X1292
GROUND DISTRIBUTION 0670.4
X13006
3 X643
S38
TILT/SLIDE SUN-ROOF SWITCH (SHD)

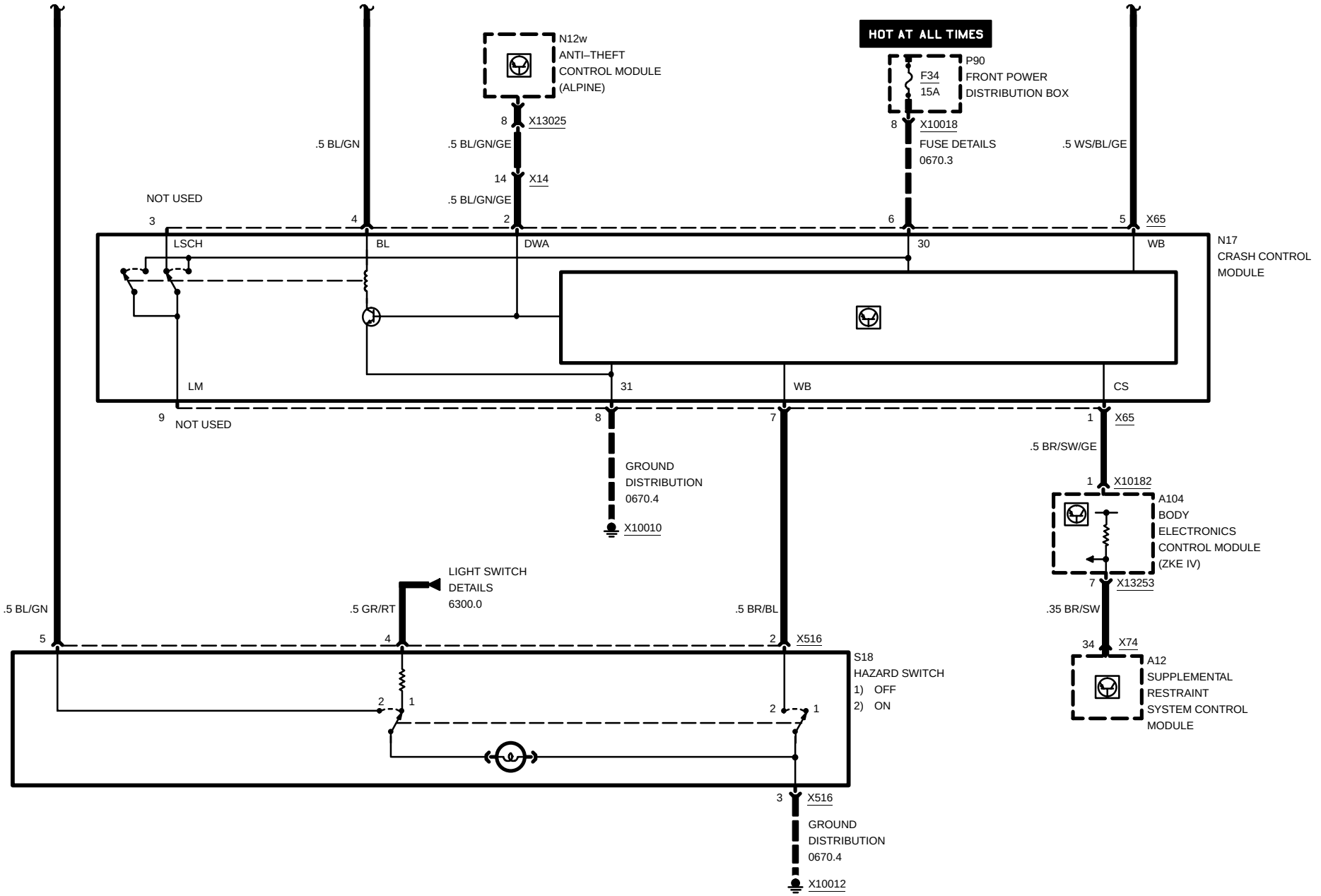
6312.0 HEADLIGHTS/FOG LIGHTS



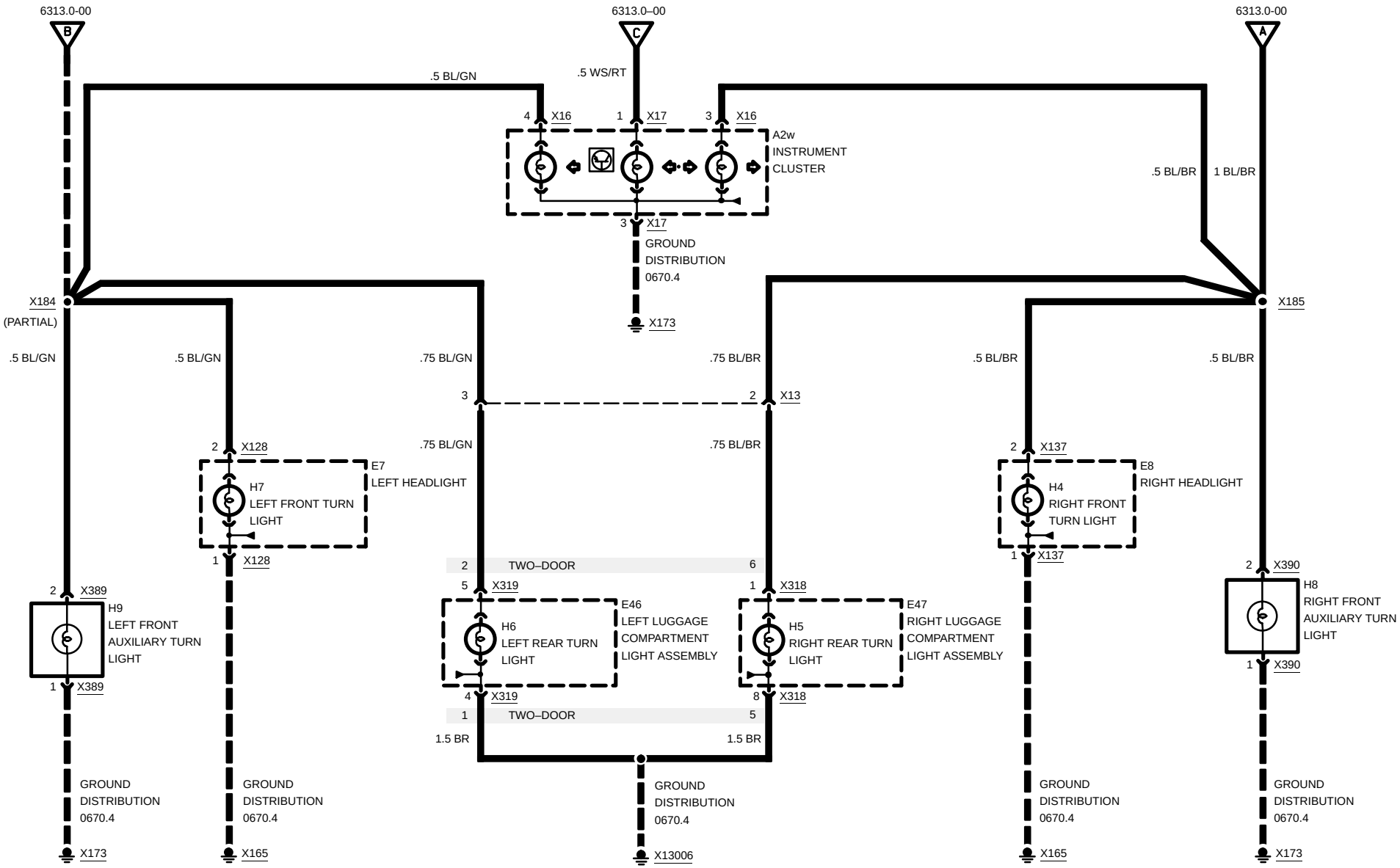

HOT AT ALL TIMES
HOT IN RUN AND START
HOT AT ALL TIMES
POWER DISTRIBUTION 0670.2
10 RT
X0
P90 FRONT POWER DISTRIBUTION BOX
X2
POWER DISTRIBUTION 0670.2
.35 GE
6
8
X45
K48 LOW BEAM LIGHT RELAY
30
86
87
87b
85
2
5
NOT USED
4
X45
2.5 WS/BL
.35 BR
1
X10035
56b
F11 7.5A
F12 7.5A
2
4
X10016
WITH CCM
WITHOUT CCM
1 GE/GR
1 GE/GN
8
X1074
A4 CHECK CONTROL MODULE
12
X1074
1 GE/GN
2
X10070
E13 LEFT LOW BEAM LIGHT
1
X10070
GROUND DISTRIBUTION 0670.4
X165
6312.0-00
F25 5A
10
X10017
FUSE DETAILS 0670.3
.35 WS
.35 GE
CDN
8
1
5
6
X10262
K46 HIGH BEAM LIGHT RELAY
30
87
K46z DAY LIGHT RELAY
4
.35 BR
2
7
X10262 MODULE
2.5 RT/WS
.35 RT/WS
1
X10036
56a
F29 7.5A
F30 7.5A
18
20
X10017
1 WS/GN
1 WS/BL
2
X10071
E11 LEFT HIGH BEAM LIGHT
1
X10071
GROUND DISTRIBUTION 0670.4
2
X10074
E12 RIGHT HIGH BEAM LIGHT
1
X10074
GROUND DISTRIBUTION 0670.4
X173
1 GE/RT
15
X1074
A4 CHECK CONTROL MODULE
13
X1074
1 GE/BL
1 GE/BL
2
X10075
E14 RIGHT LOW BEAM LIGHT
1
X10075

6313.0 TURN/HAZARD LIGHTS

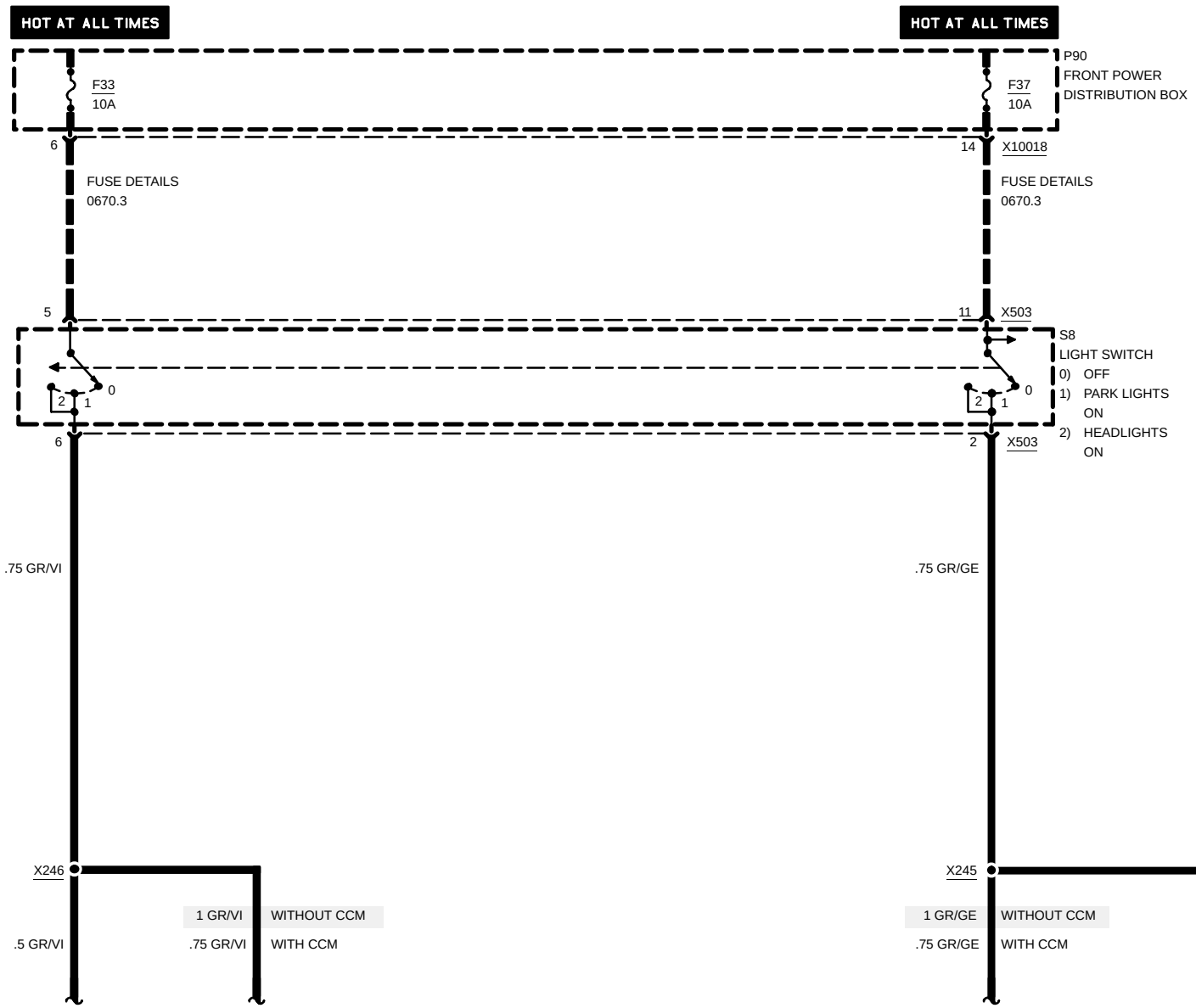


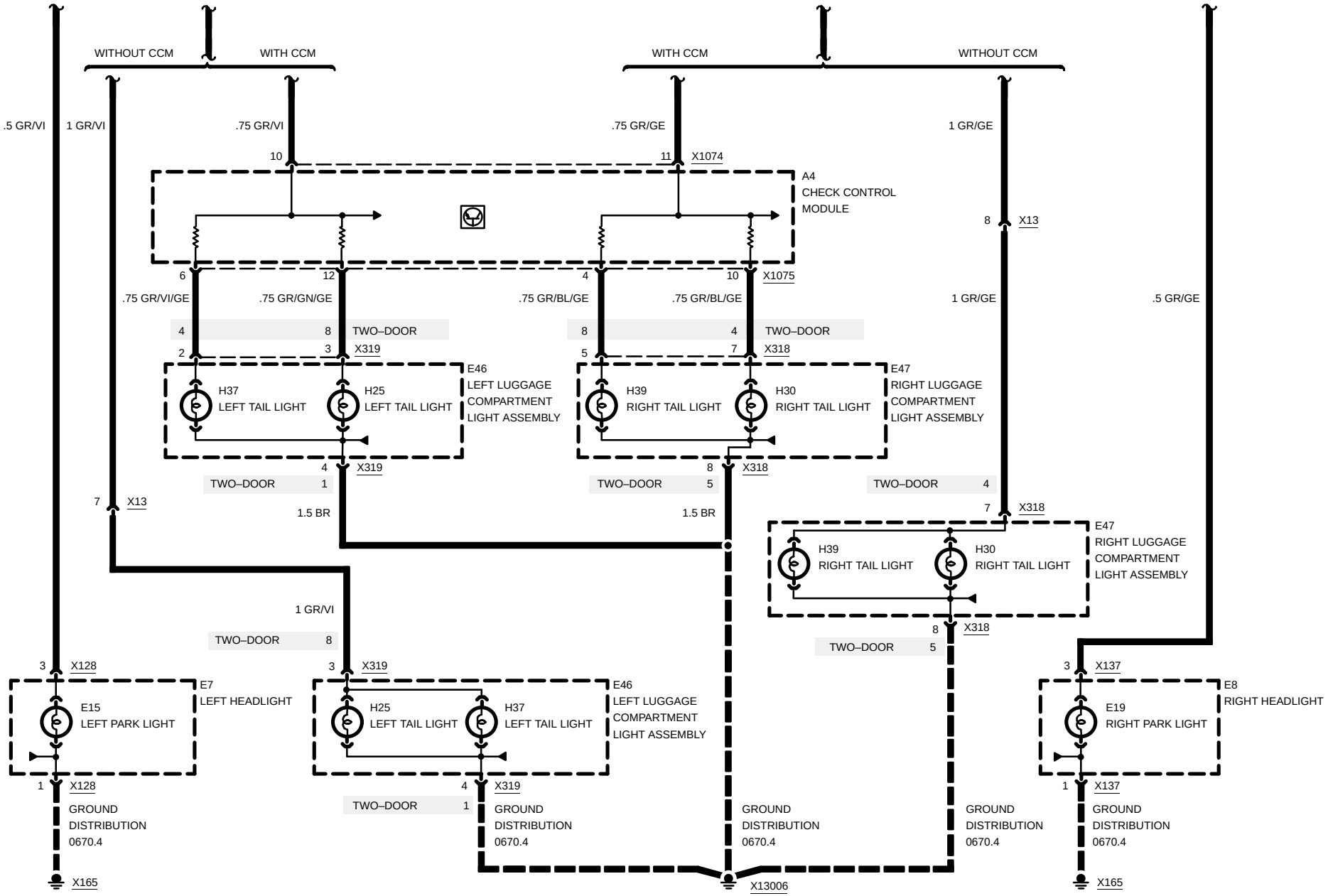

N12w
ANTI–THEFT
CONTROL MODULE
(ALPINE)
8 X13025
.5 BL/GN
.5 BL/GN/GE
14 X14
.5 BL/GN/GE
HOT AT ALL TIMES
F34
15A
P90
FRONT POWER
DISTRIBUTION BOX
8 X10018
FUSE DETAILS
0670.3
.5 WS/BL/GE
NOT USED
3
4
2
6
5 X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1 X65
GROUND
DISTRIBUTION
0670.4
X10010
.5 BR/SW/GE
1 X10182
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
7 X13253
.35 BR/SW
34 X74
A12
SUPPLEMENTAL
RESTRAINT
SYSTEM CONTROL
MODULE
LIGHT SWITCH
DETAILS
6300.0
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2 X516
S18
HAZARD SWITCH
1) OFF
2) ON
2
1
2
1
3 X516
GROUND
DISTRIBUTION
0670.4
X10012

TURN/HAZARD LIGHTS

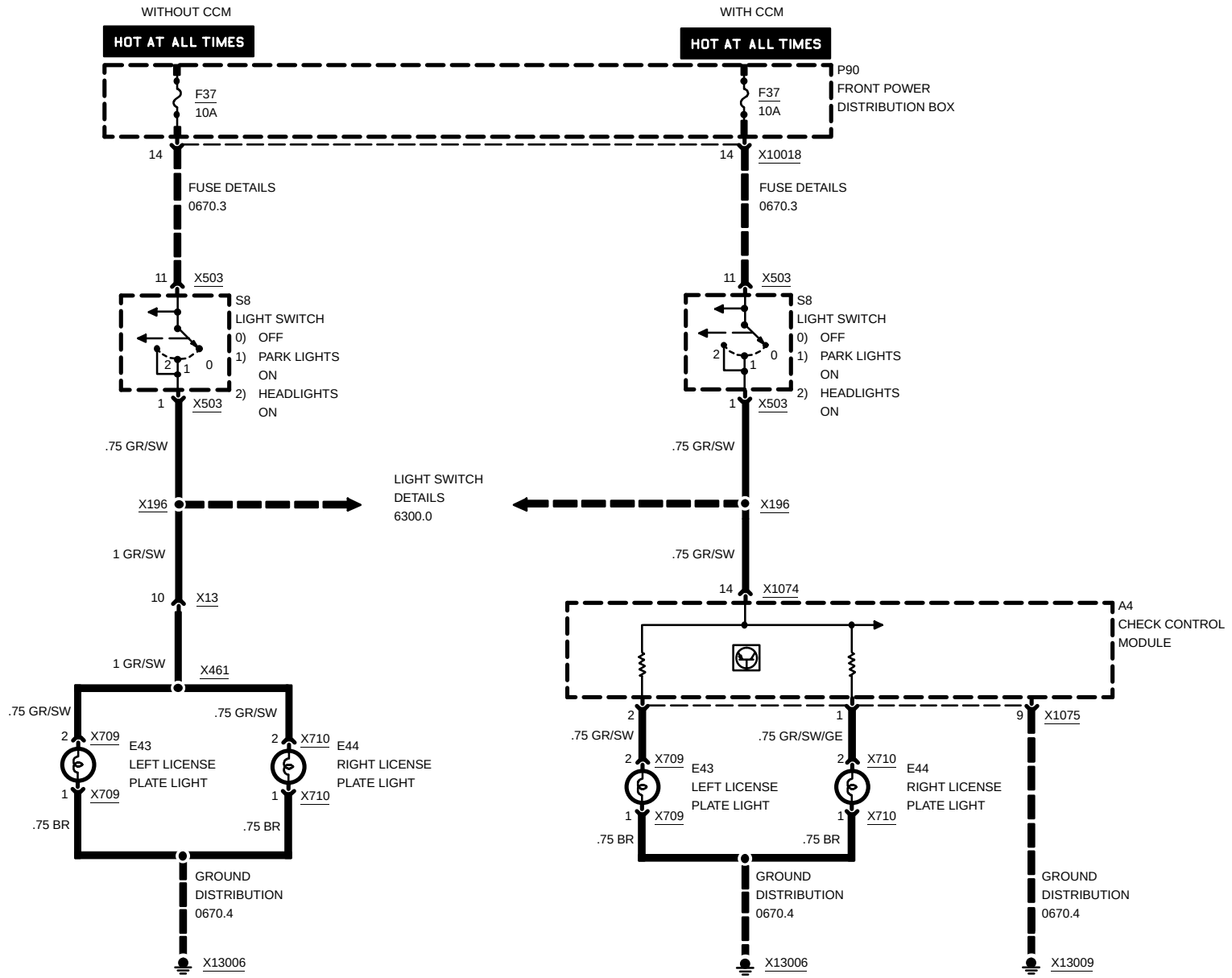


6314.0 PARK/TAIL LIGHTS

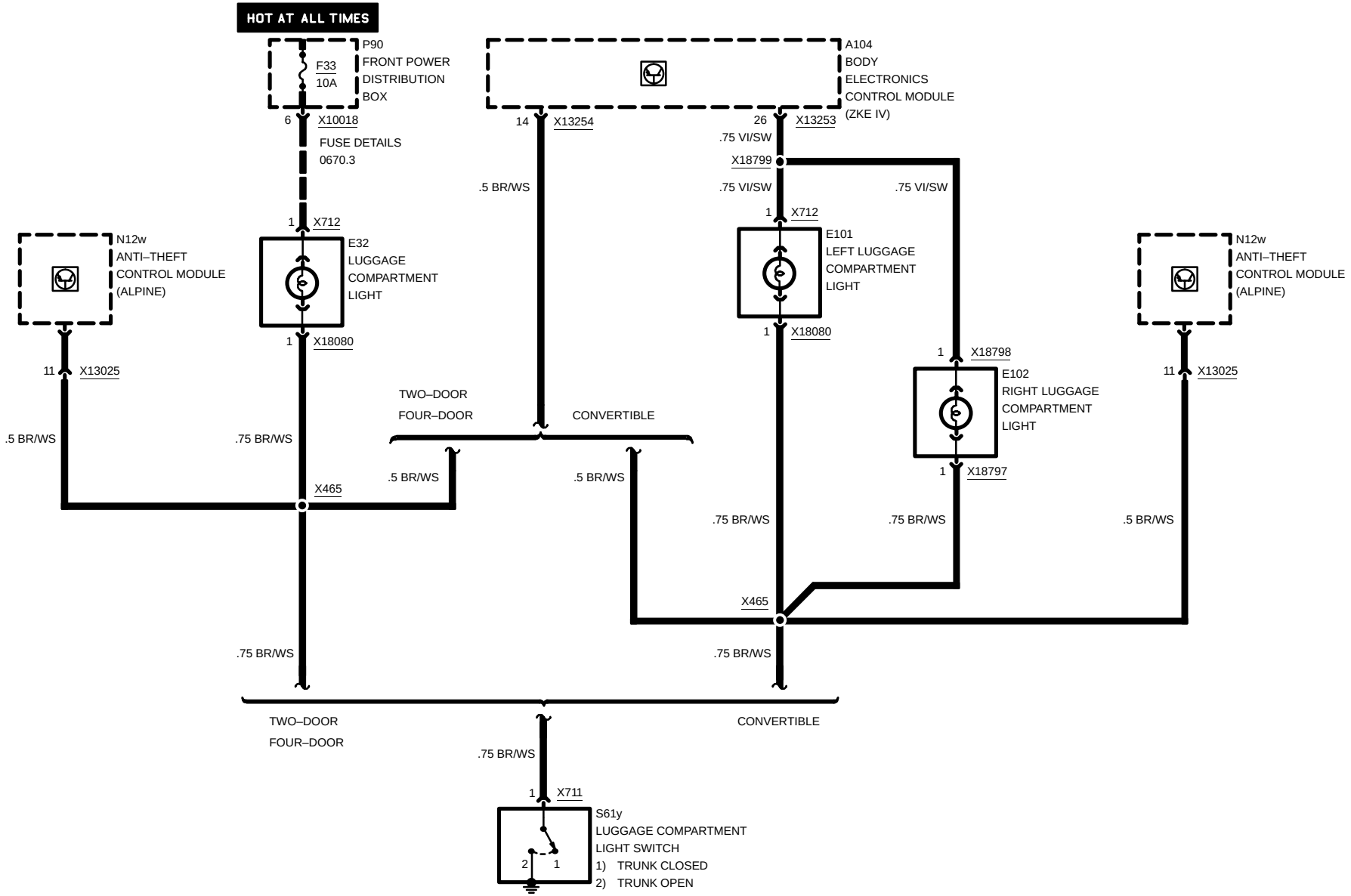



WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.5 GR/VI
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
10
11
X1074
A4
CHECK CONTROL
MODULE
8
X13
6
12
4
10
X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/BL/GE
.75 GR/BL/GE
1 GR/GE
.5 GR/GE
4
8
TWO–DOOR
3
X319
8
4
TWO–DOOR
2
7
X318
5
E46
LEFT LUGGAGE
COMPARTMENT
LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT TAIL LIGHT
E47
RIGHT LUGGAGE
COMPARTMENT
LIGHT ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
4
X319
TWO–DOOR
1
8
X318
TWO–DOOR
5
TWO–DOOR
4
7
X13
1.5 BR
1.5 BR
7
X318
E47
RIGHT LUGGAGE
COMPARTMENT
LIGHT ASSEMBLY
H39
RIGHT TAIL LIGHT
H30
RIGHT TAIL LIGHT
8
X318
TWO–DOOR
5
1 GR/VI
TWO–DOOR
8
3
X128
3
X319
3
X137
E7
LEFT HEADLIGHT
E15
LEFT PARK LIGHT
E46
LEFT LUGGAGE
COMPARTMENT
LIGHT ASSEMBLY
H25
LEFT TAIL LIGHT
H37
LEFT TAIL LIGHT
E8
RIGHT HEADLIGHT
E19
RIGHT PARK LIGHT
1
X128
4
X319
TWO–DOOR
1
1
X137
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X165
X13006
X165

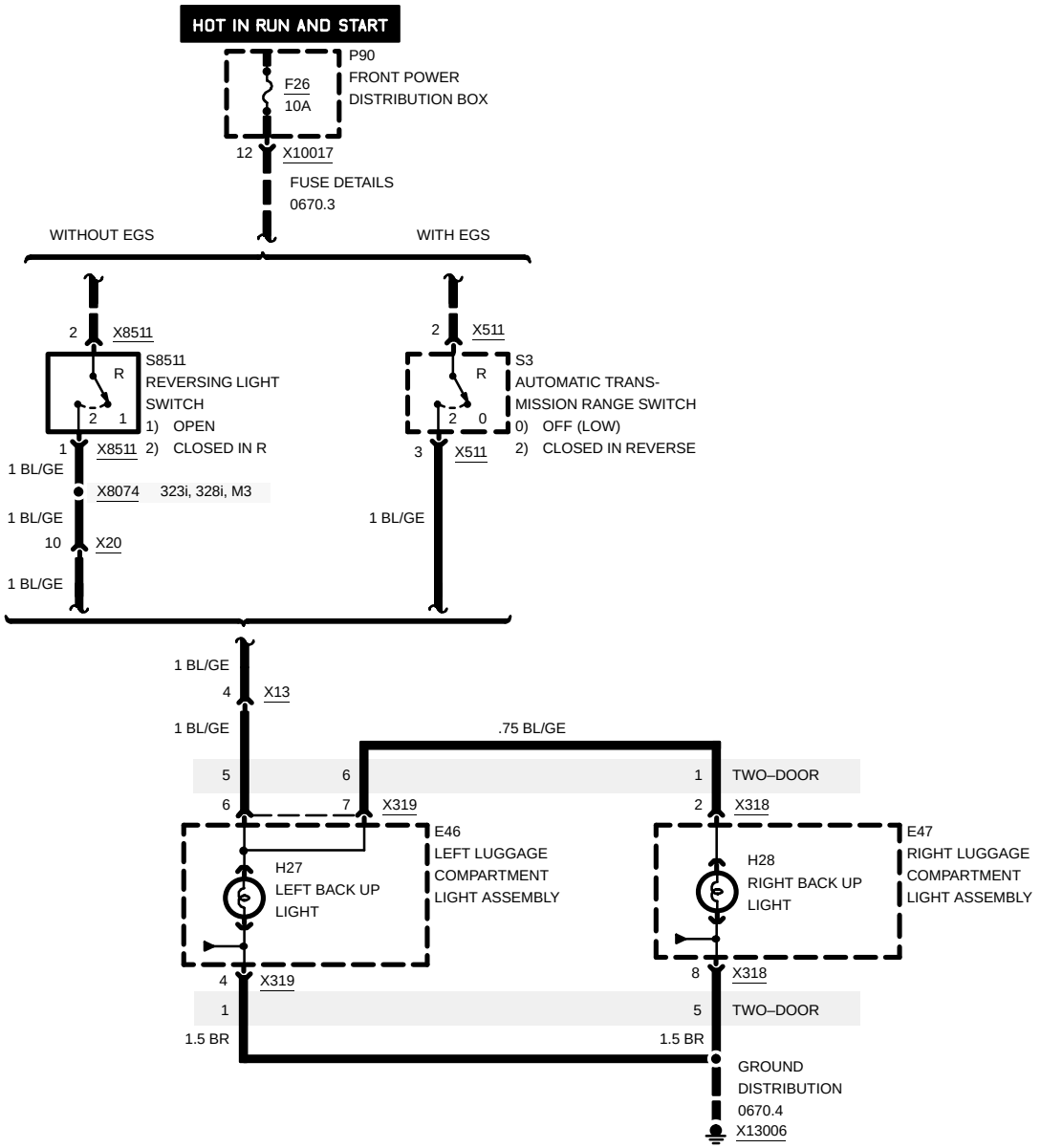
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS

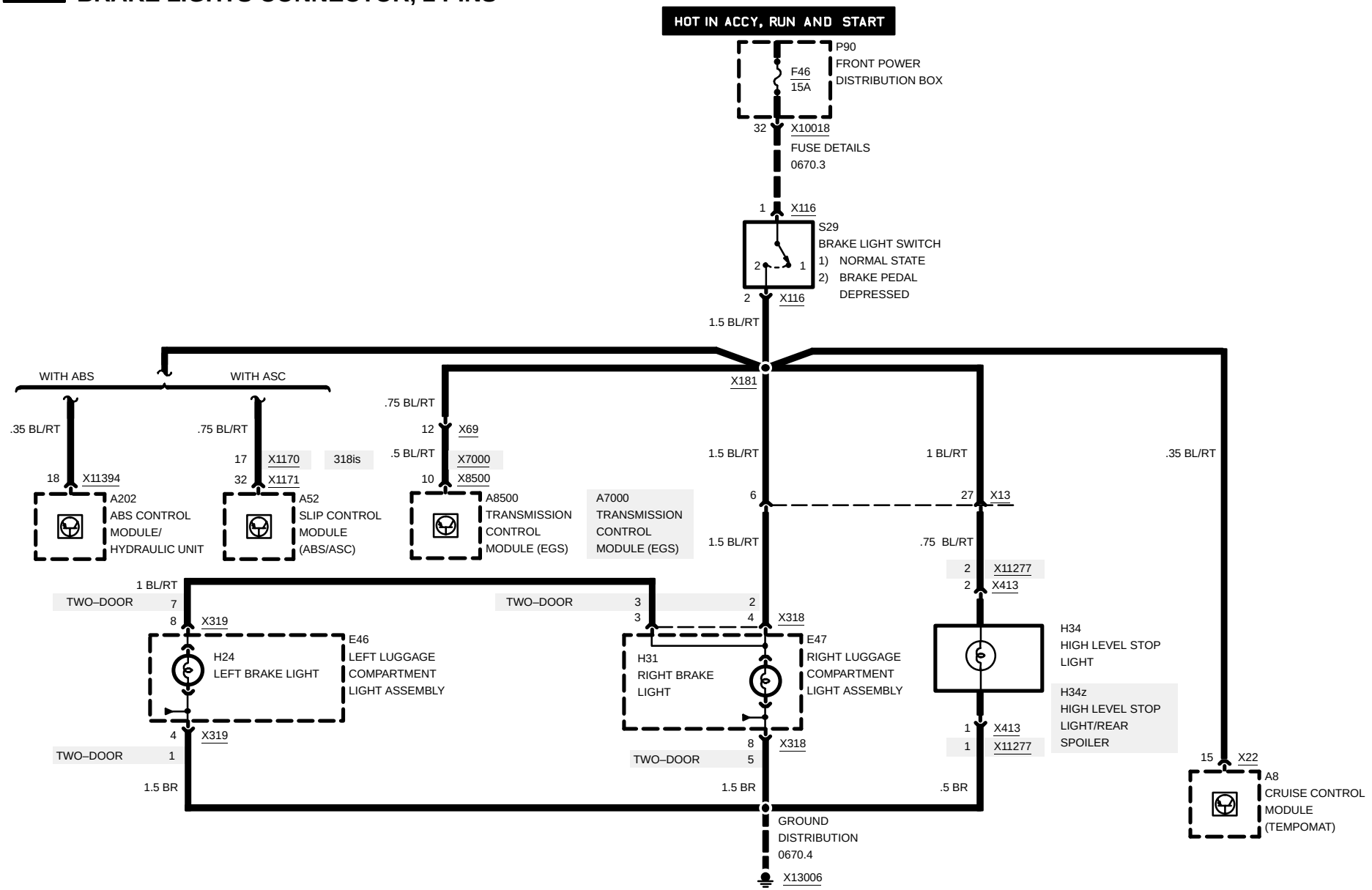


6322.0 BACK UP LIGHTS



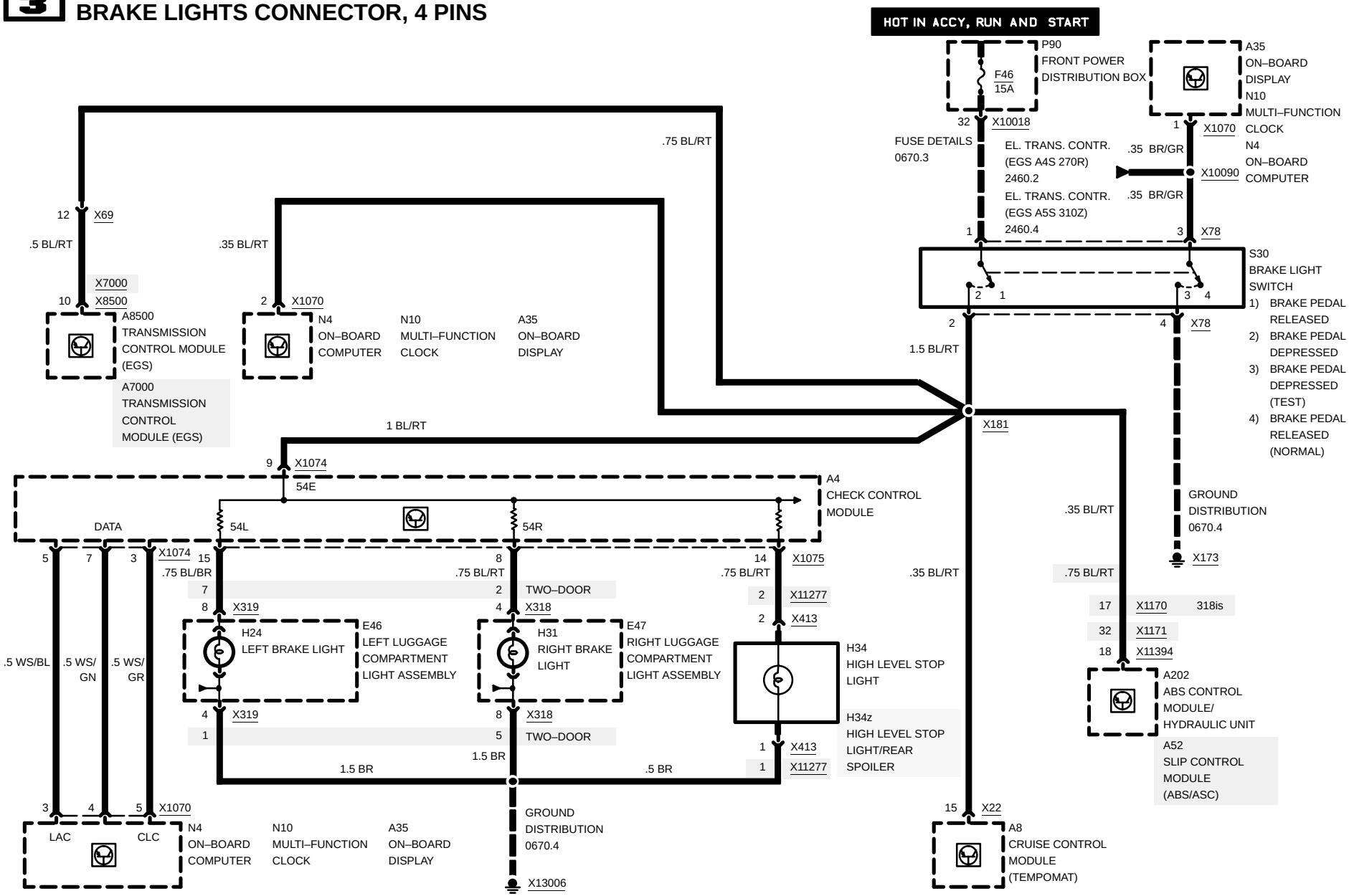
6325.0 BRAKE LIGHTS

BRAKE LIGHTS CONNECTOR, 2 PINS



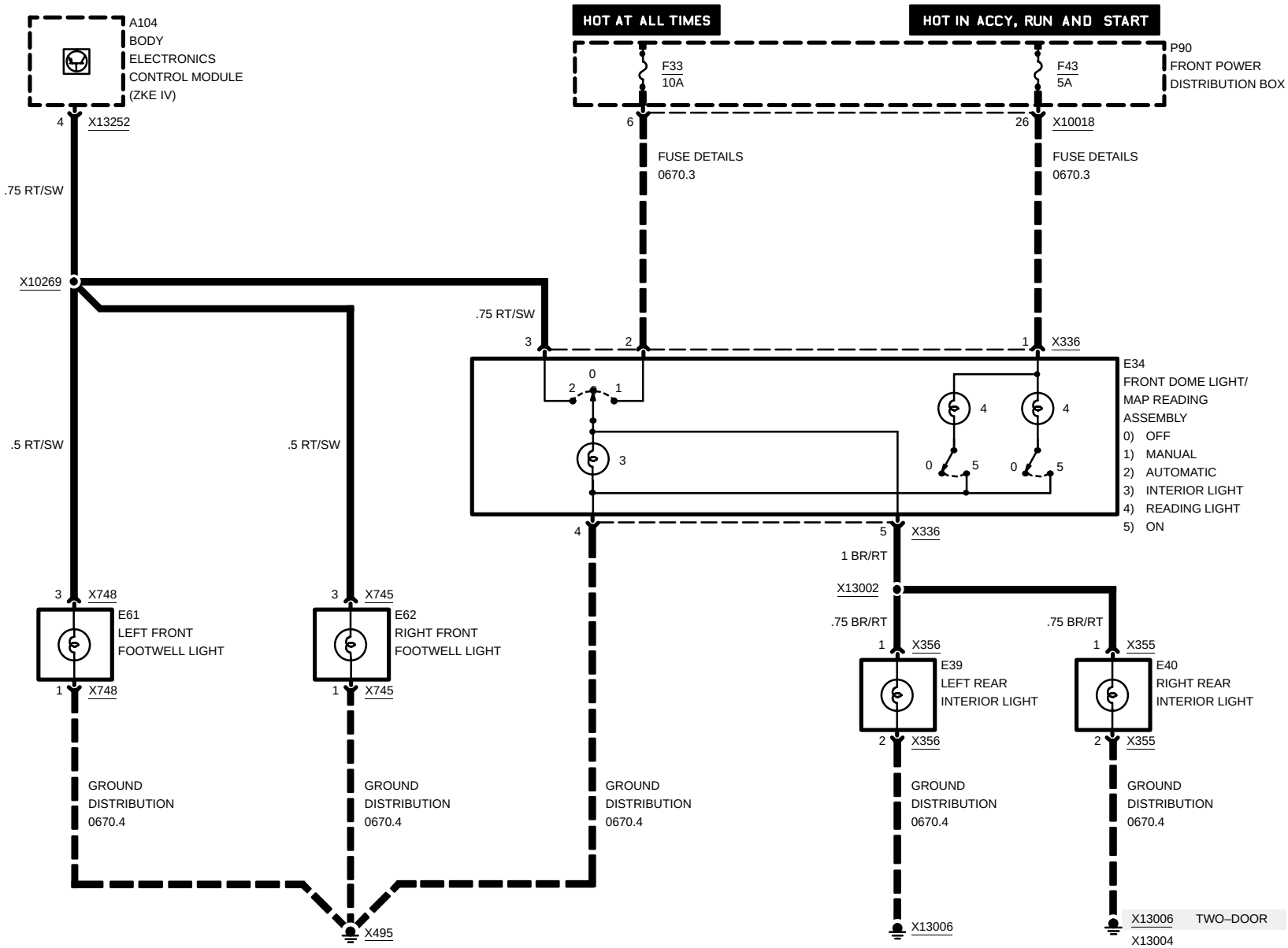
BRAKE LIGHTS

BRAKE LIGHTS CONNECTOR, 4 PINS



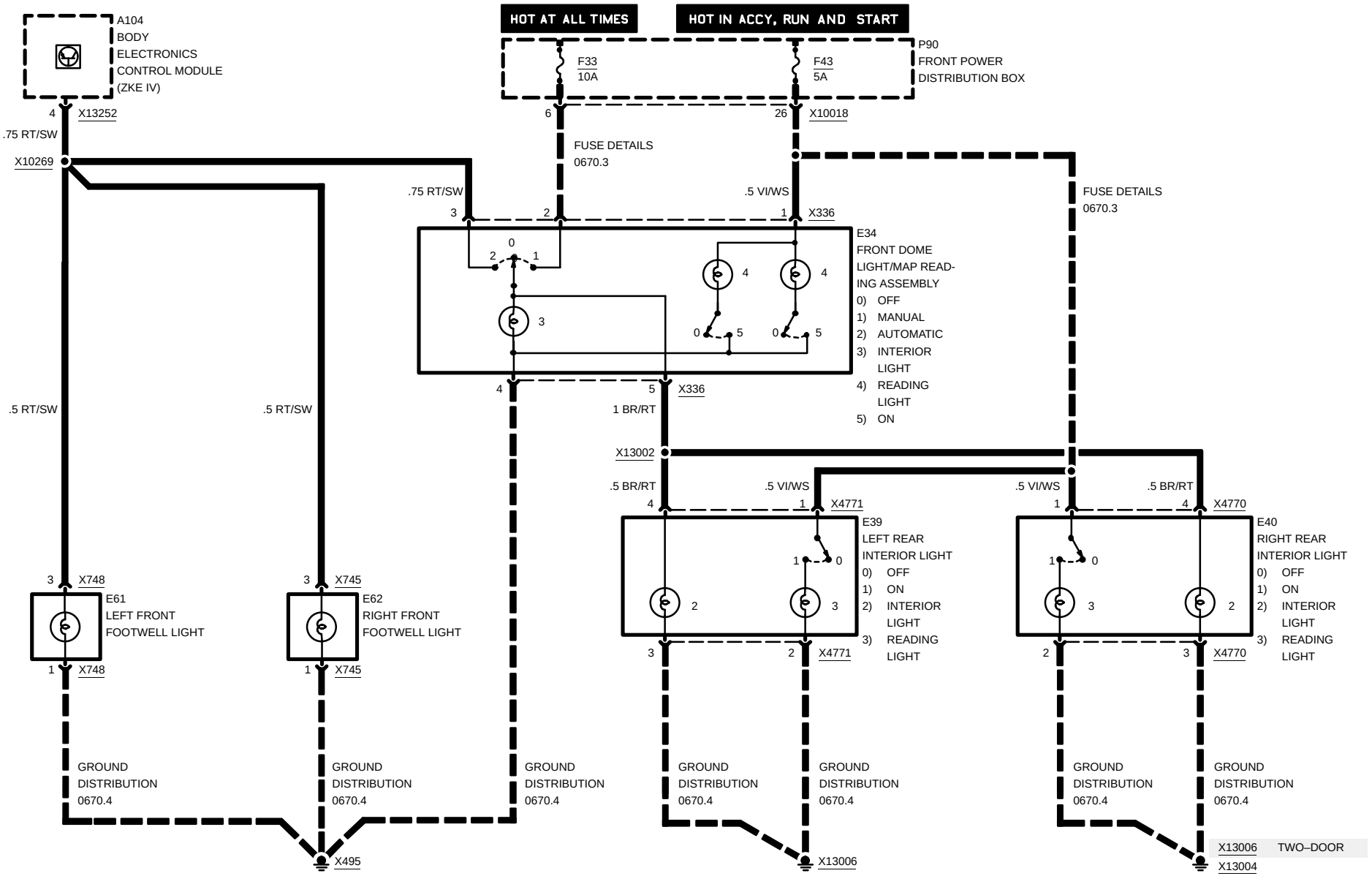
6330.3 INTERIOR LIGHTS

WITHOUT REAR READING LIGHT



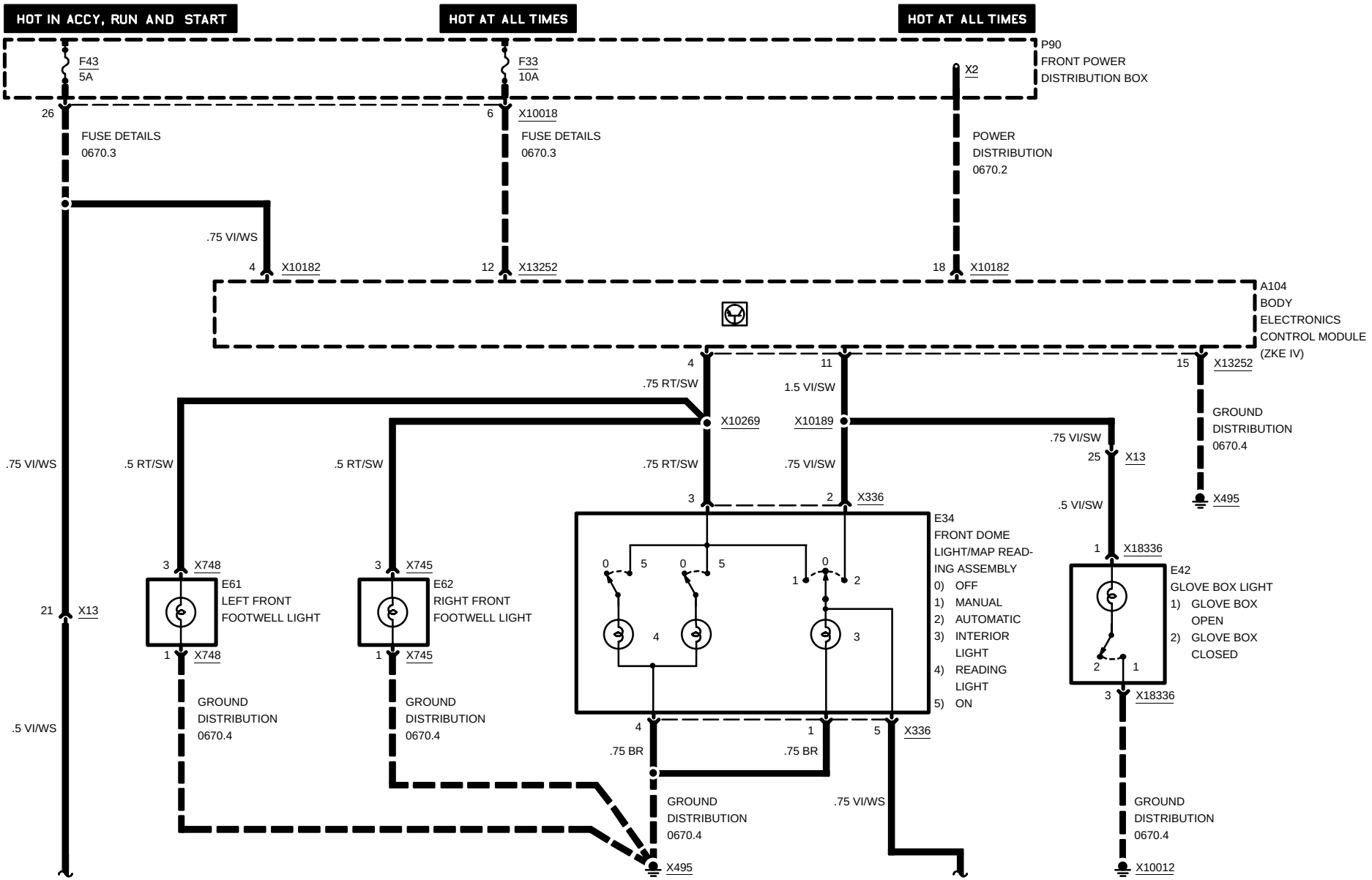
INTERIOR LIGHTS

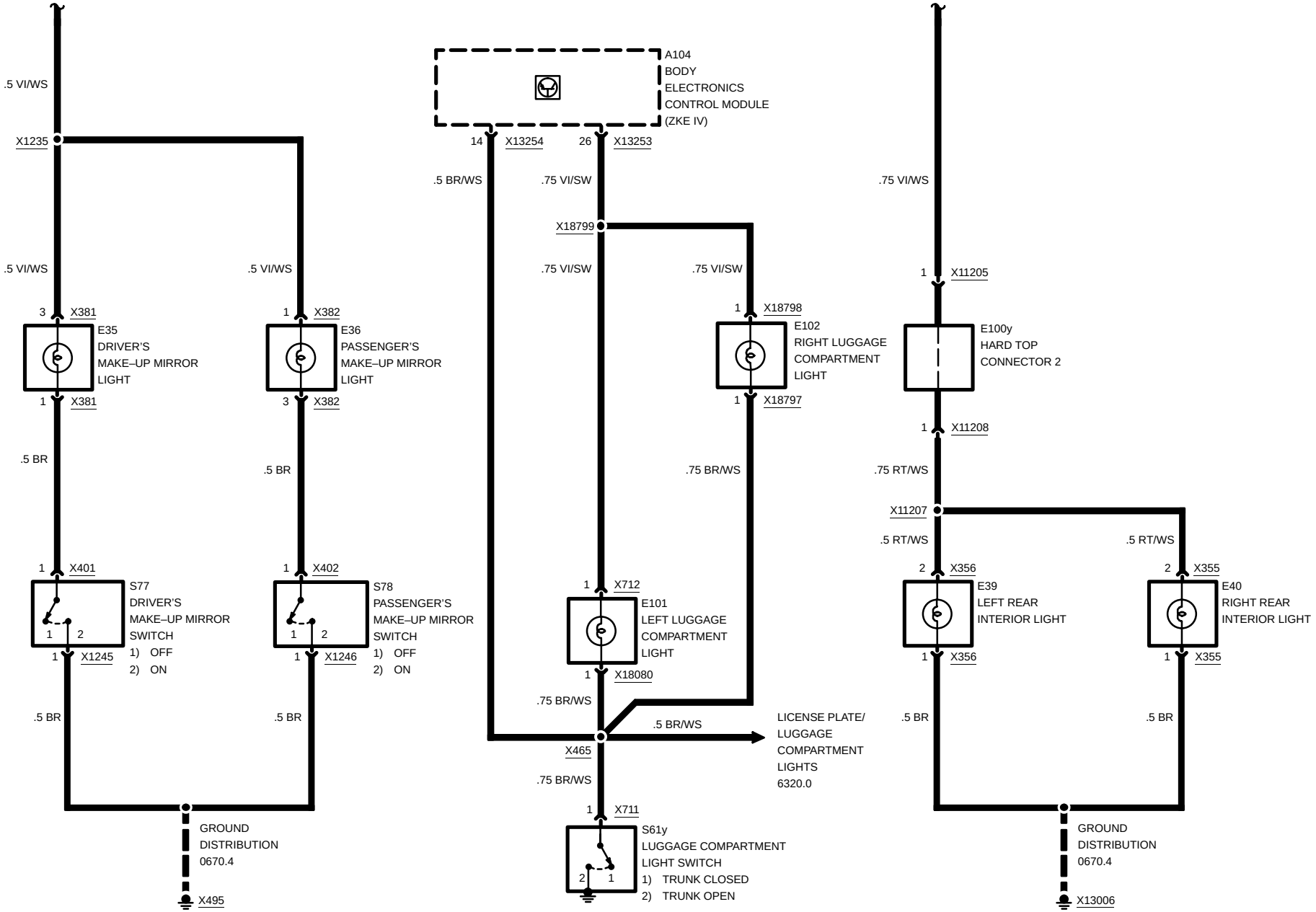
WITH REAR READING LIGHT



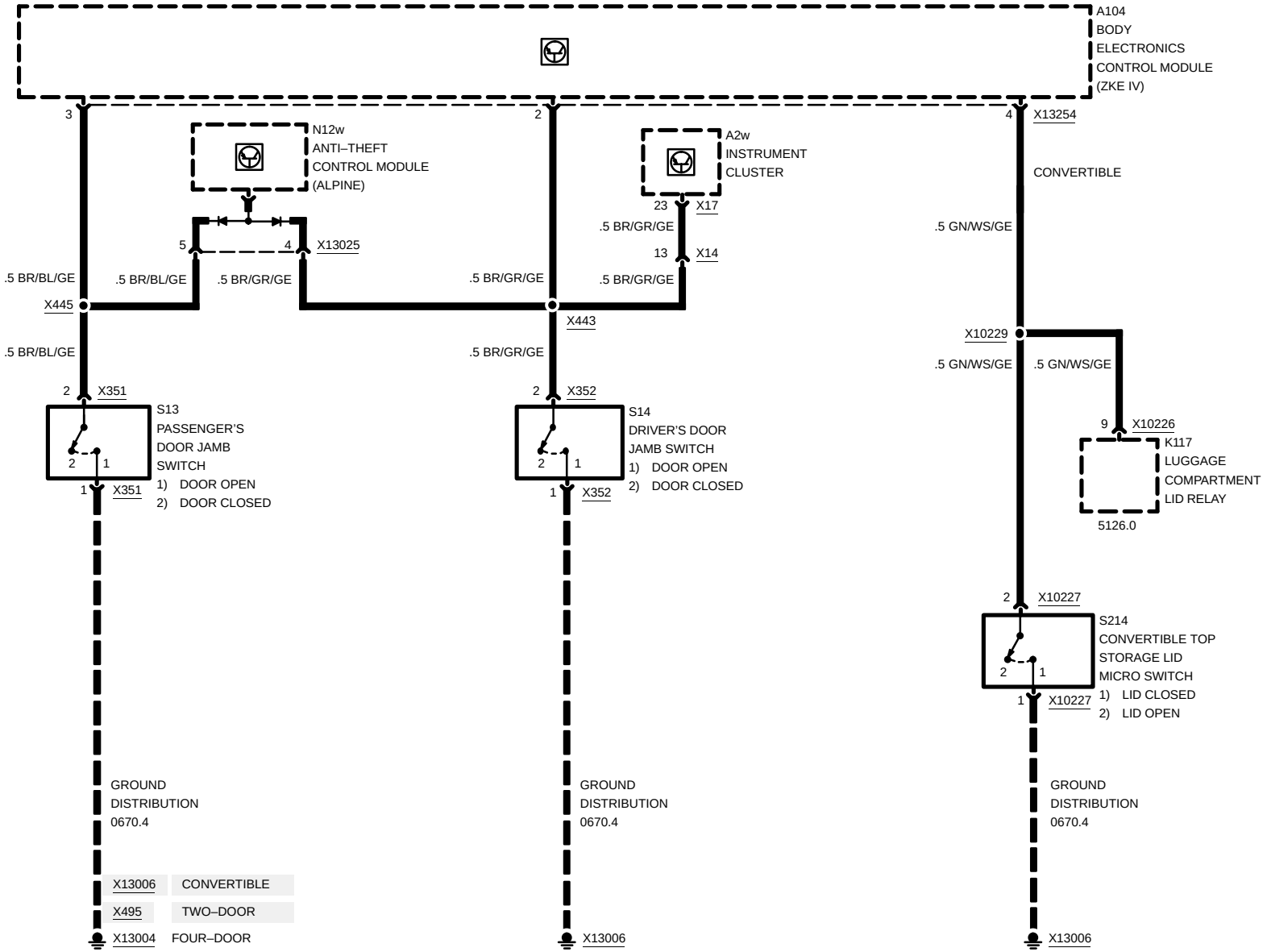
INTERIOR LIGHTS

CONVERTIBLE



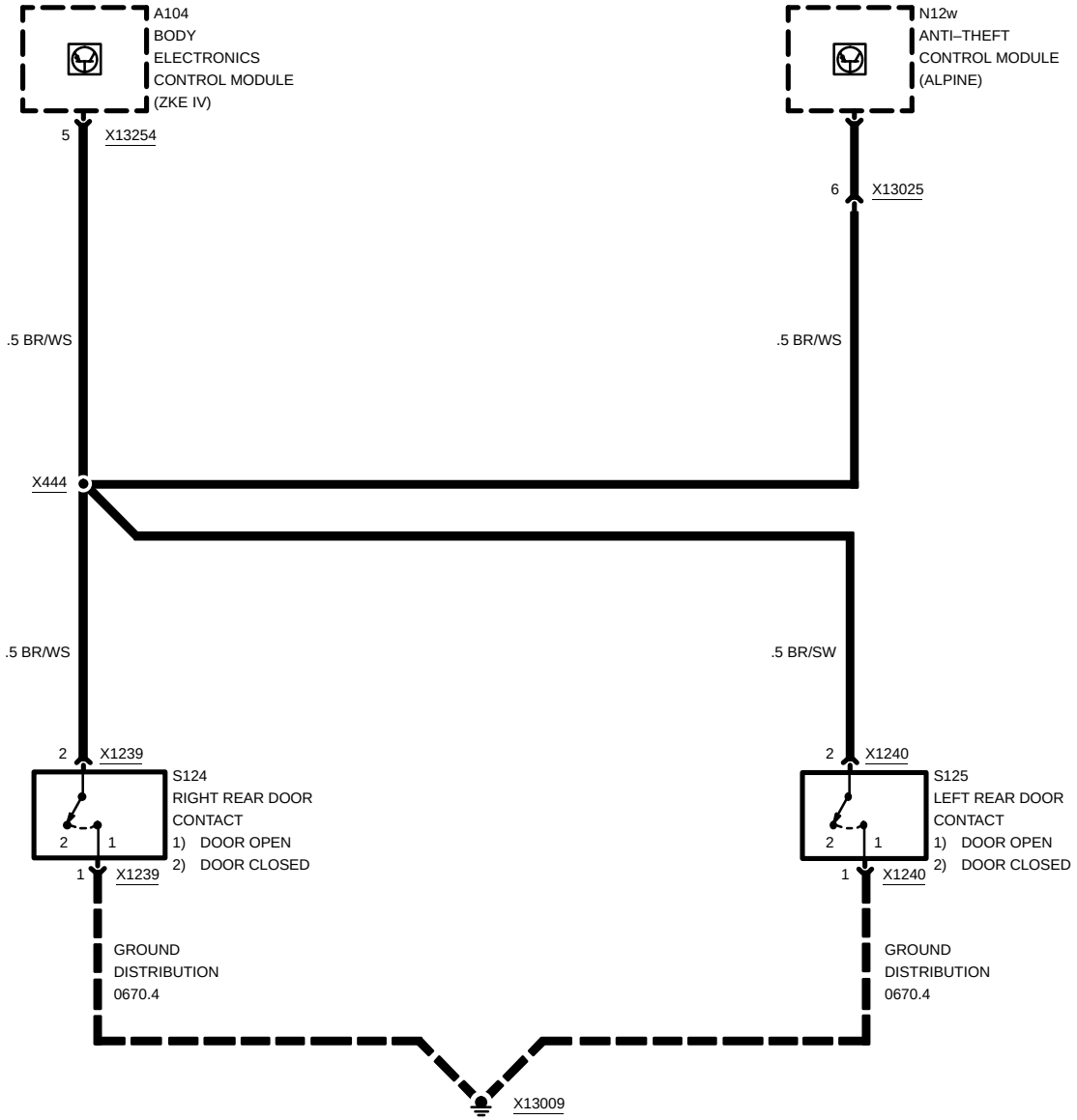

A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
14 X13254
26 X13253
.5 BR/WS
.75 VI/SW
.75 VI/WS
X18799
.5 VI/WS
.5 VI/WS
.75 VI/SW
.75 VI/SW
3 X381
1 X382
1 X18798
E35
DRIVER'S
MAKE–UP MIRROR
LIGHT
E36
PASSENGER'S
MAKE–UP MIRROR
LIGHT
E102
RIGHT LUGGAGE
COMPARTMENT
LIGHT
1 X381
3 X382
1 X18797
1 X11205
E100y
HARD TOP
CONNECTOR 2
.5 BR
.5 BR
.75 BR/WS
1 X11208
.75 RT/WS
X11207
.5 RT/WS
.5 RT/WS
1 X401
1 X402
1 X712
2 X356
2 X355
S77
DRIVER'S
MAKE–UP MIRROR
SWITCH
1) OFF
2) ON
S78
PASSENGER'S
MAKE–UP MIRROR
SWITCH
1) OFF
2) ON
E101
LEFT LUGGAGE
COMPARTMENT
LIGHT
E39
LEFT REAR
INTERIOR LIGHT
E40
RIGHT REAR
INTERIOR LIGHT
1 X1245
1 X1246
1 X18080
1 X356
1 X355
.5 BR
.5 BR
.75 BR/WS
.5 BR/WS
.5 BR
.5 BR
LICENSE PLATE/
LUGGAGE
COMPARTMENT
LIGHTS
6320.0
X465
.75 BR/WS
1 X711
S61y
LUGGAGE COMPARTMENT
LIGHT SWITCH
1) TRUNK CLOSED
2) TRUNK OPEN
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
X495
X13006

INTERIOR LIGHTS

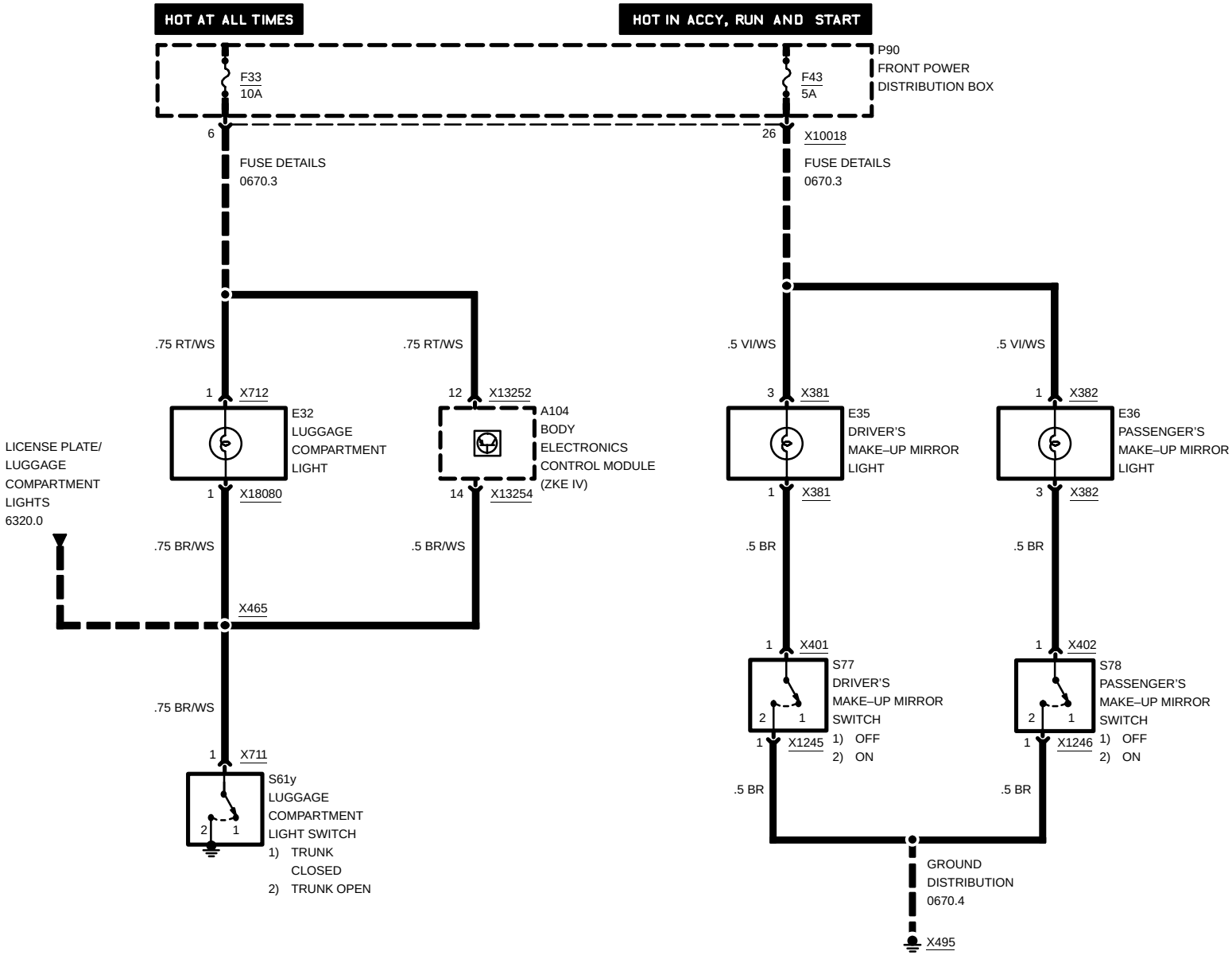


INTERIOR LIGHTS

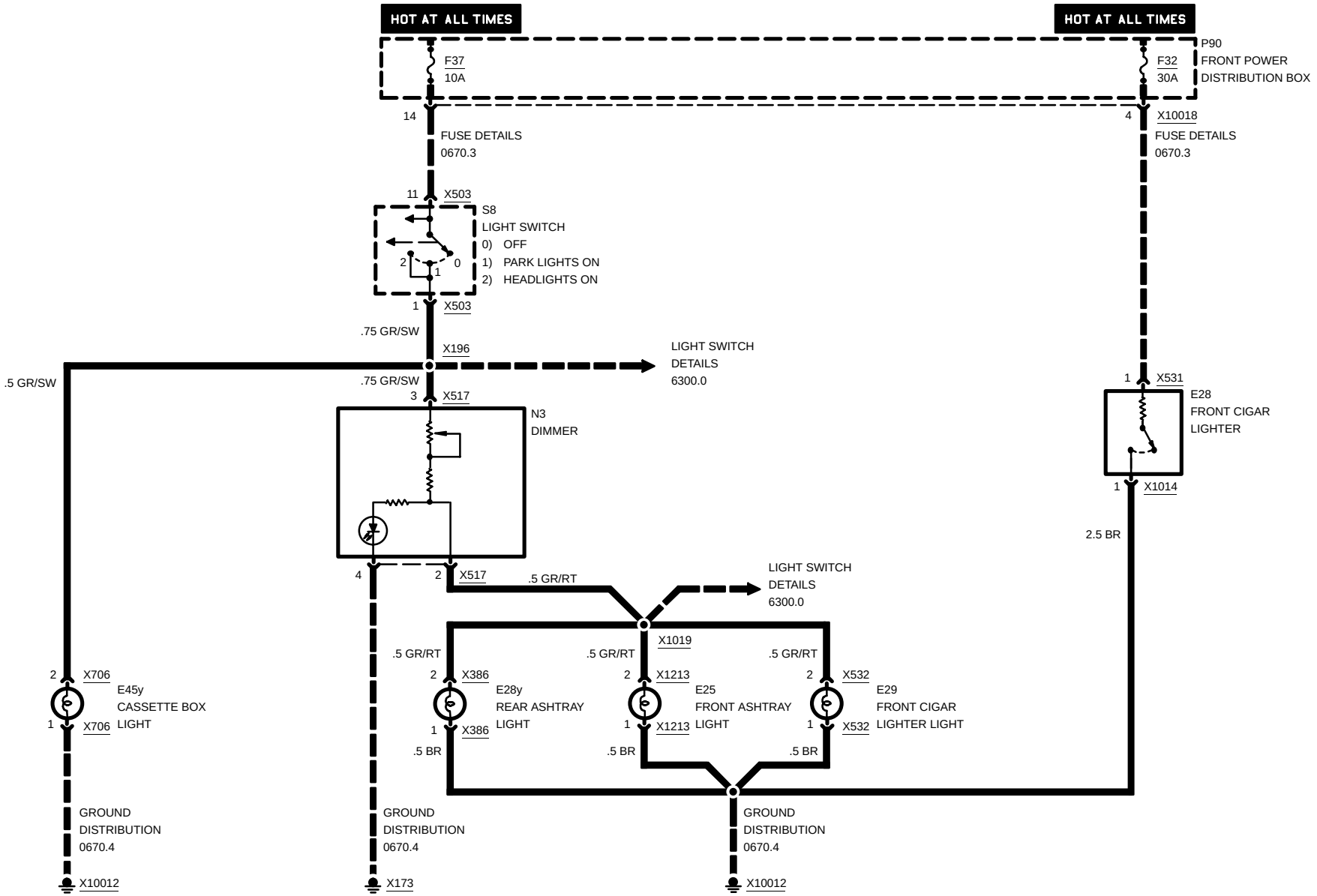
REAR DOOR JAMB SWITCH



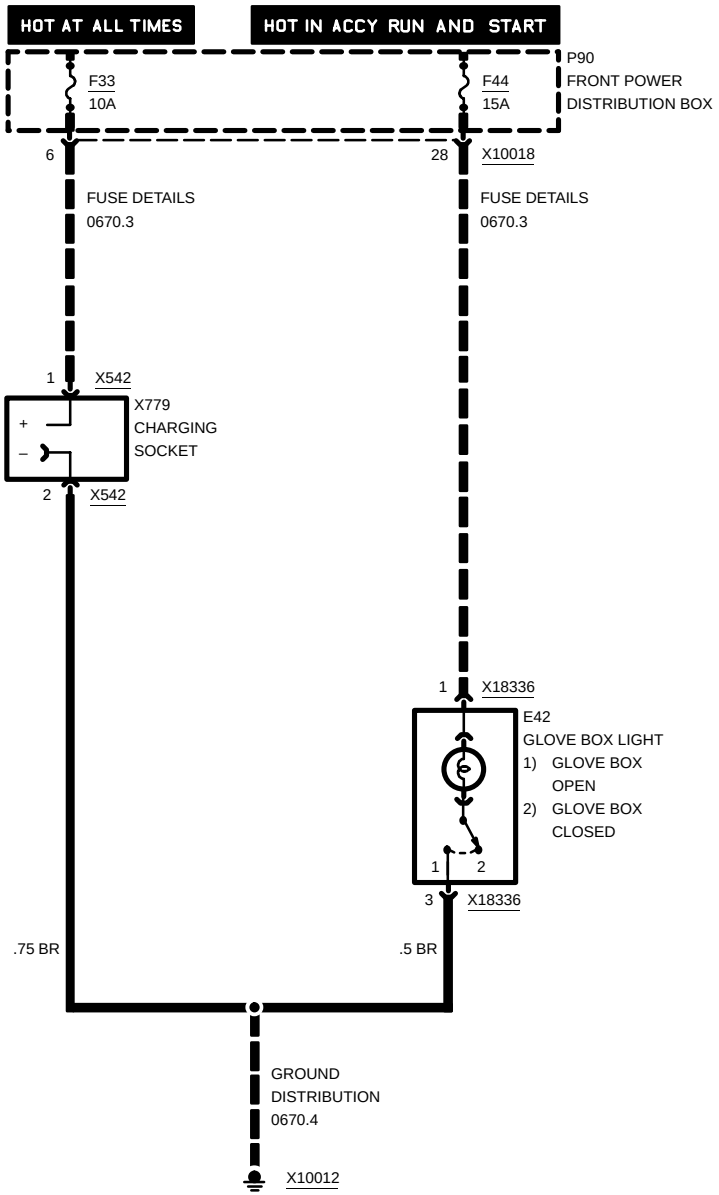
INTERIOR LIGHTS



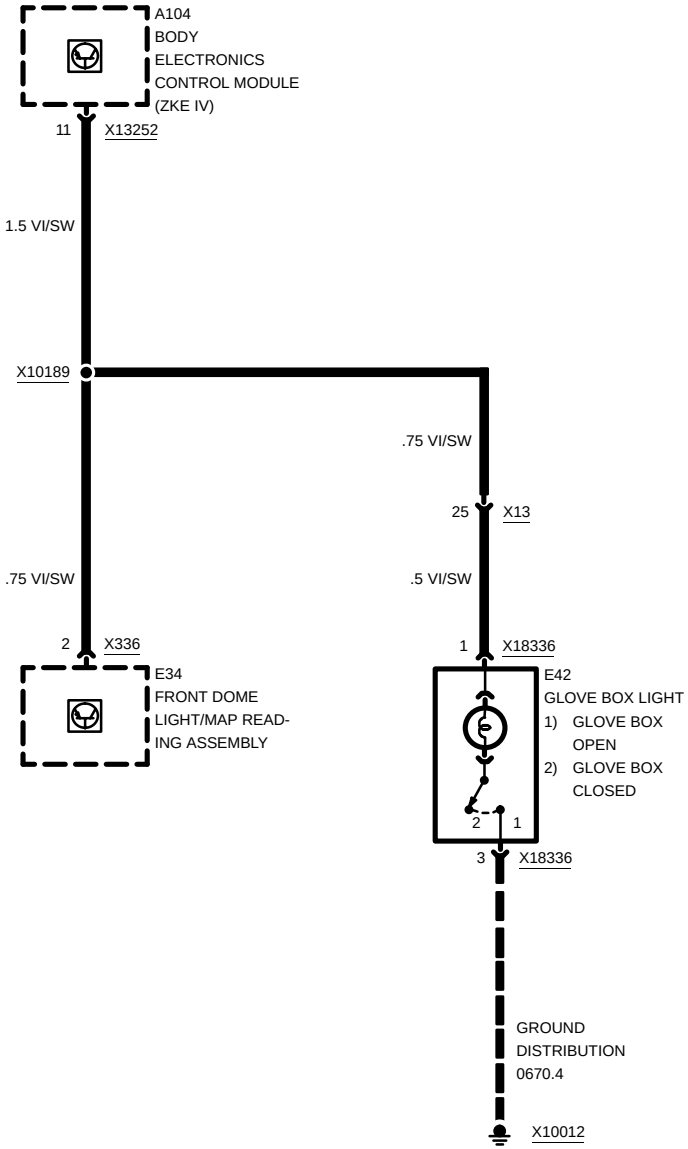
6332.1 GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER



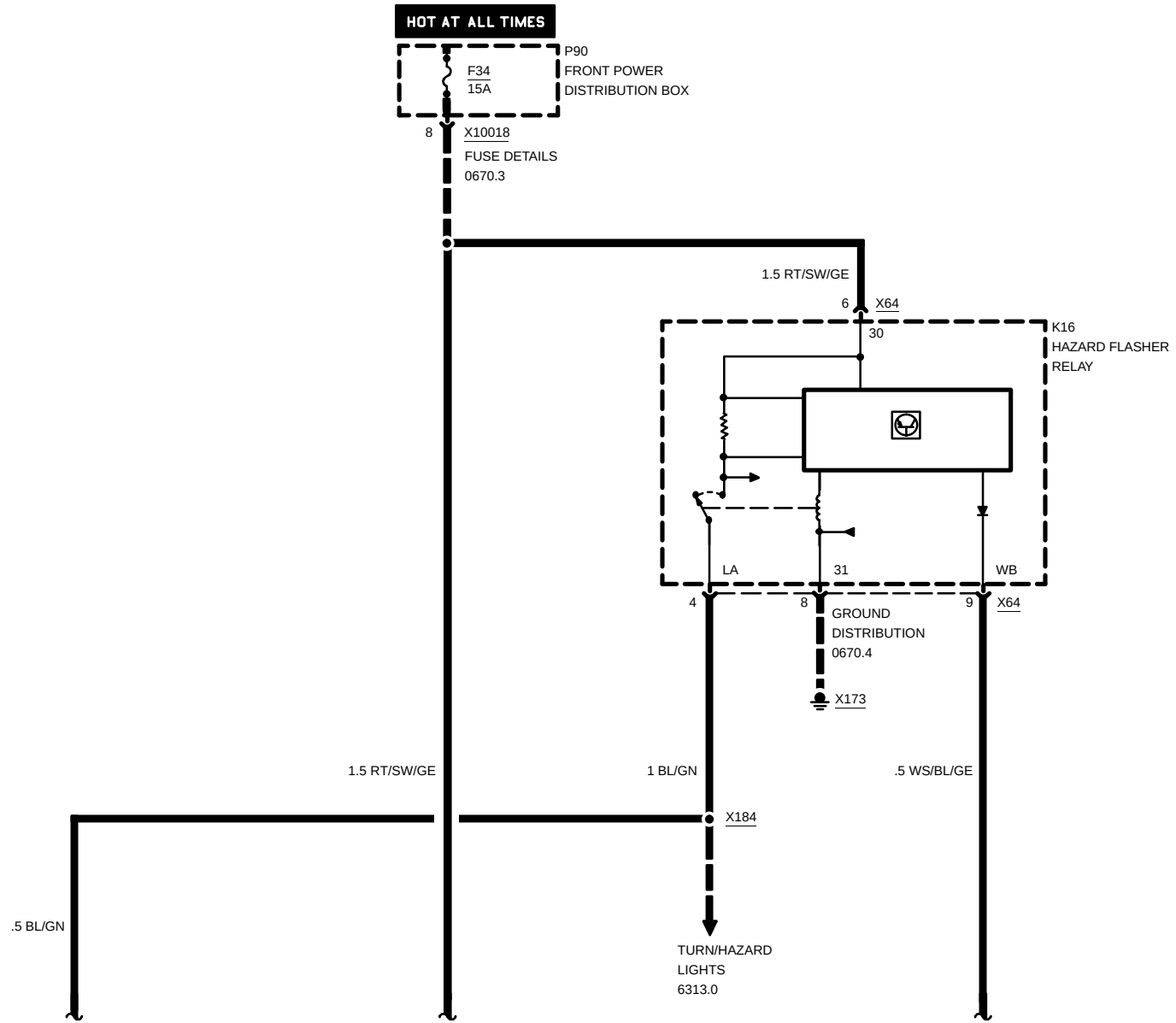
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

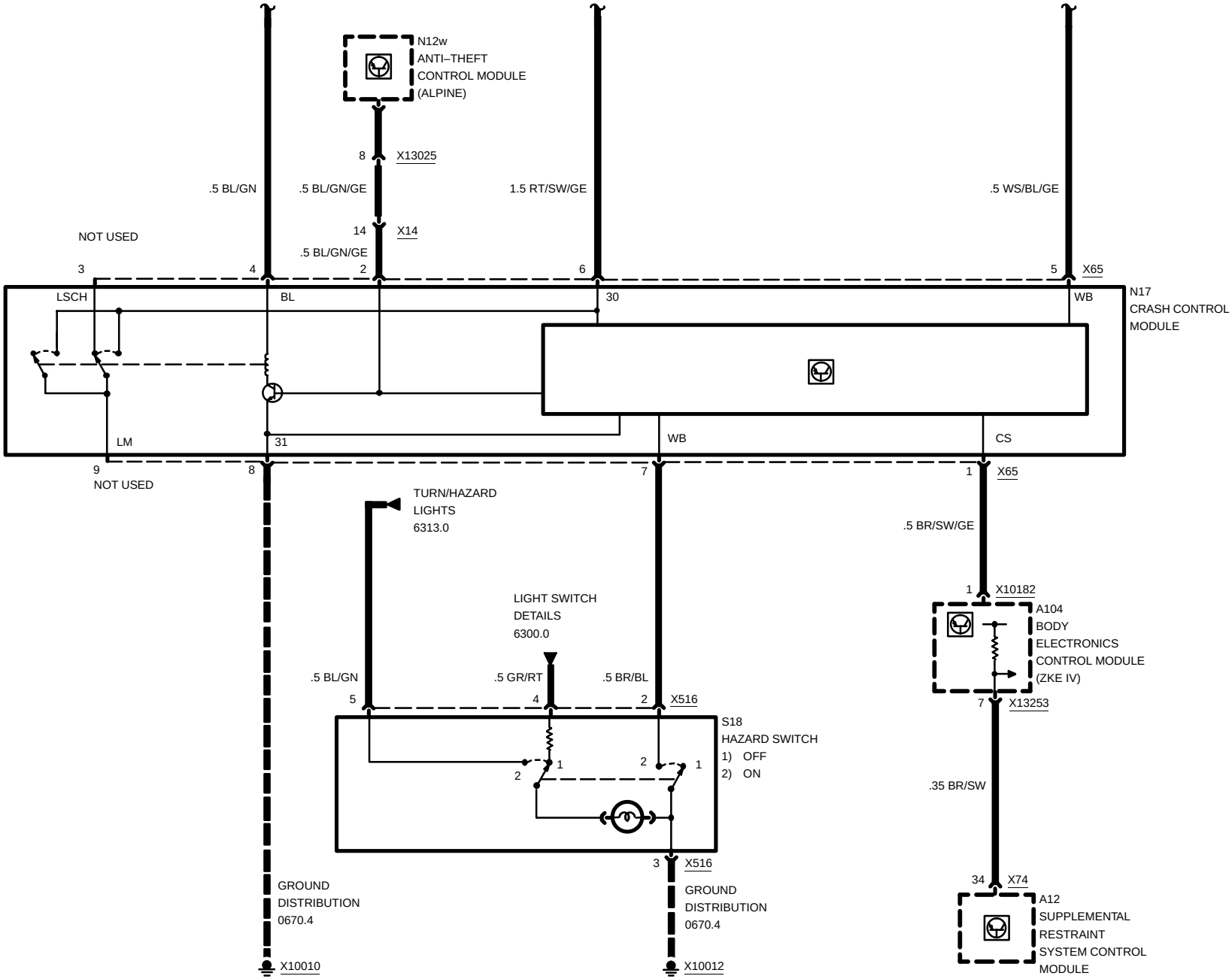


CONVERTIBLE

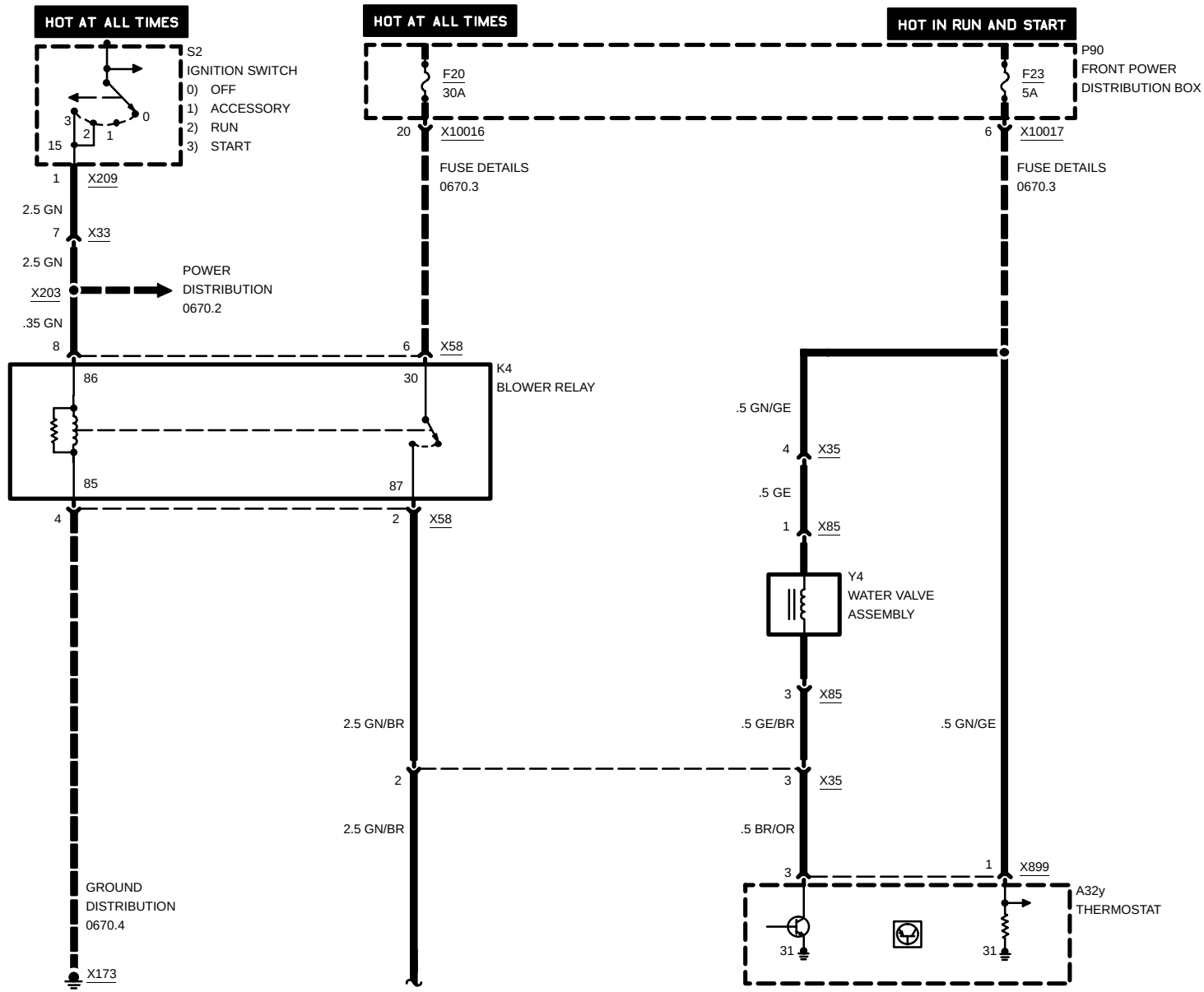


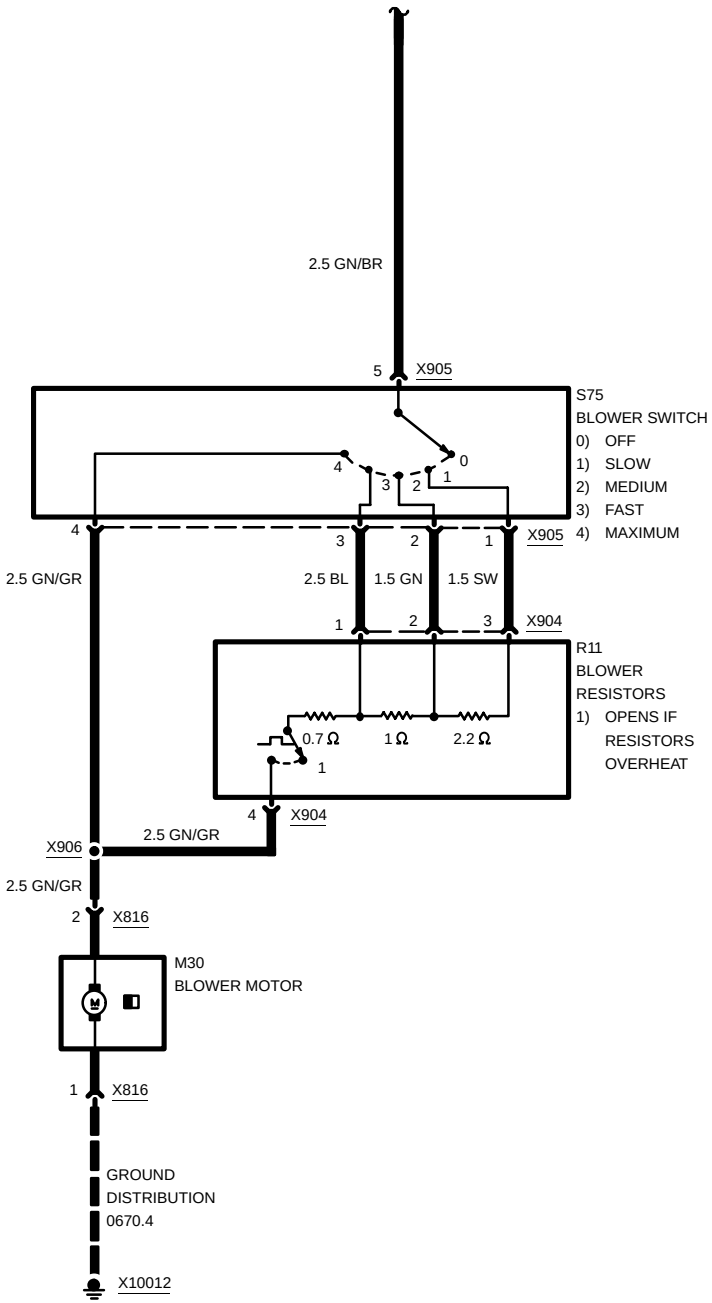
6350.0 CRASH CONTROL MODULE

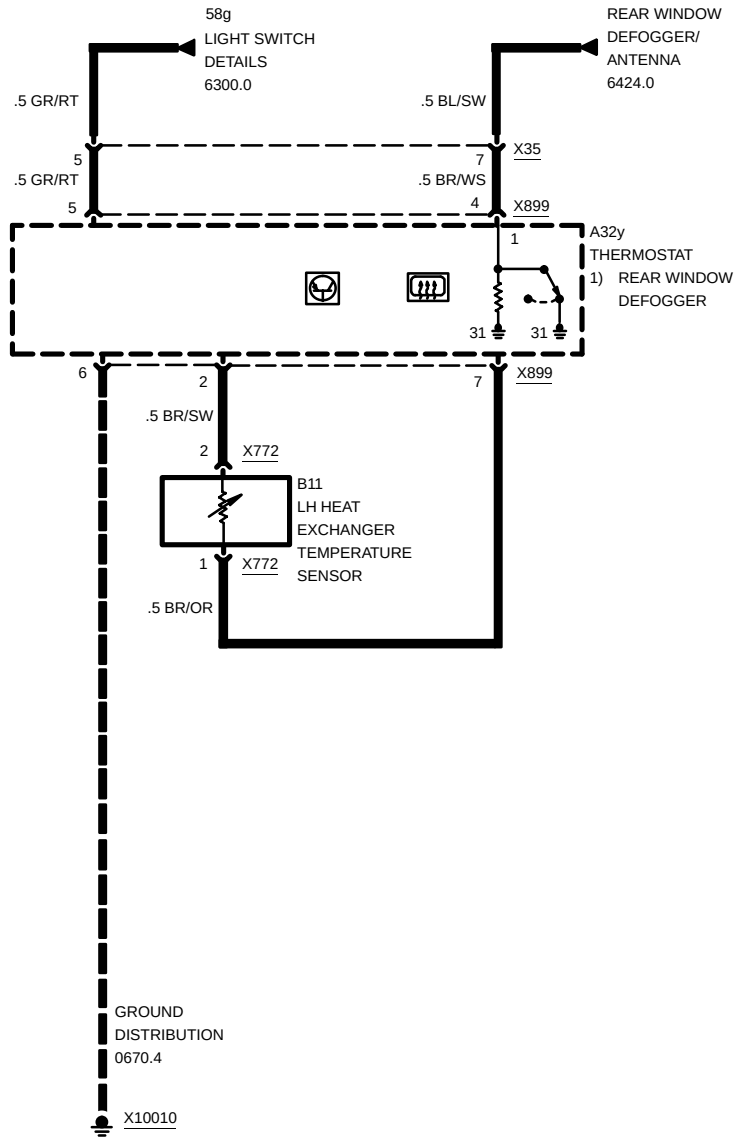



N12w
ANTI–THEFT
CONTROL MODULE
(ALPINE)
8
X13025
.5 BL/GN
.5 BL/GN/GE
1.5 RT/SW/GE
.5 WS/BL/GE
14
X14
.5 BL/GN/GE
NOT USED
3
4
2
6
5
X65
LSCH
BL
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
TURN/HAZARD
LIGHTS
6313.0
.5 BR/SW/GE
1
X10182
LIGHT SWITCH
DETAILS
6300.0
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)
.5 BL/GN
.5 GR/RT
.5 BR/BL
5
4
2
X516
7
X13253
S18
HAZARD SWITCH
1) OFF
2) ON
.35 BR/SW
3
X516
34
X74
GROUND
DISTRIBUTION
0670.4
GROUND
DISTRIBUTION
0670.4
A12
SUPPLEMENTAL
RESTRAINT
SYSTEM CONTROL
MODULE
X10010
X10012

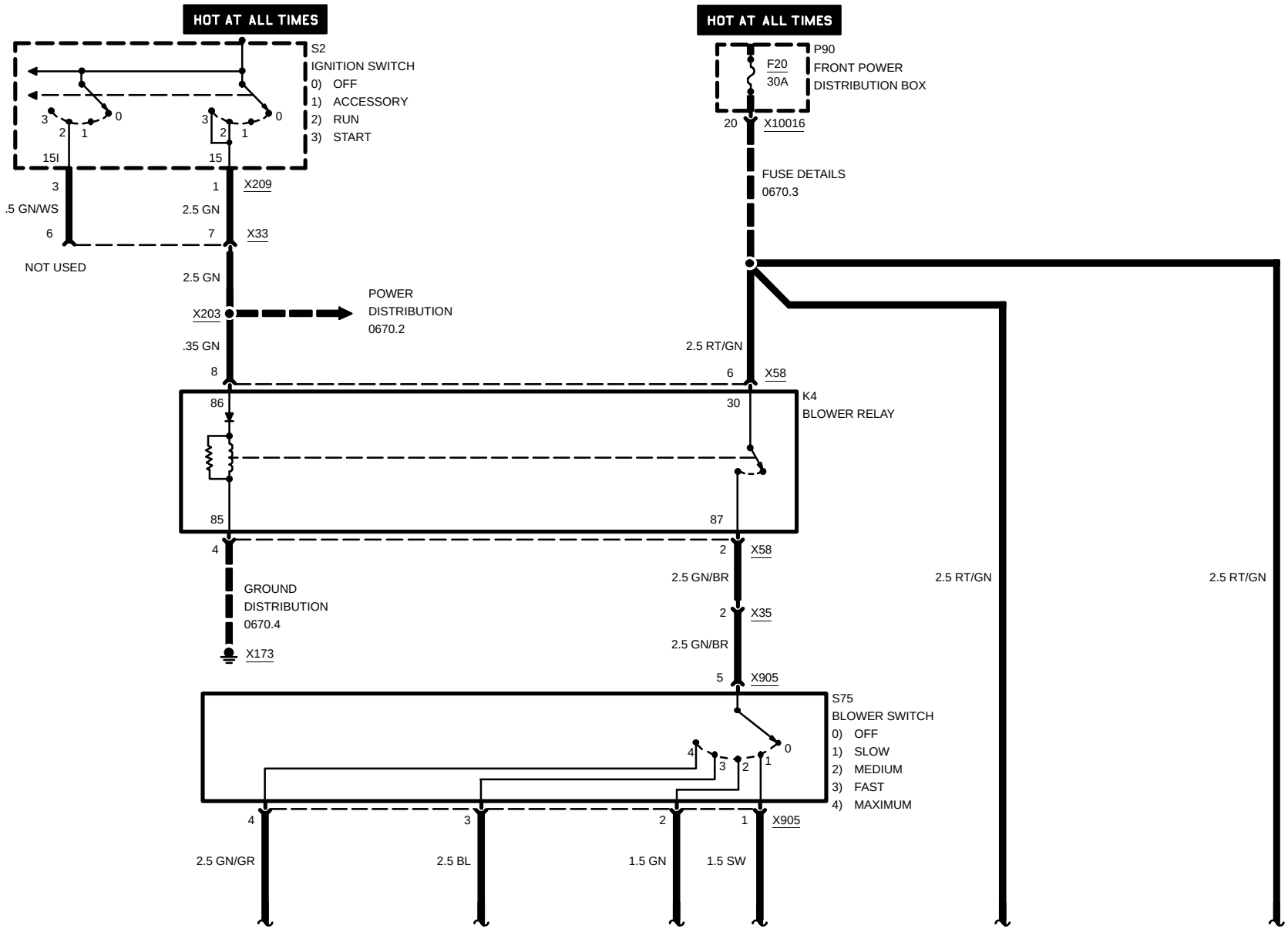
6410.5 HEATING CONTROL (HR)

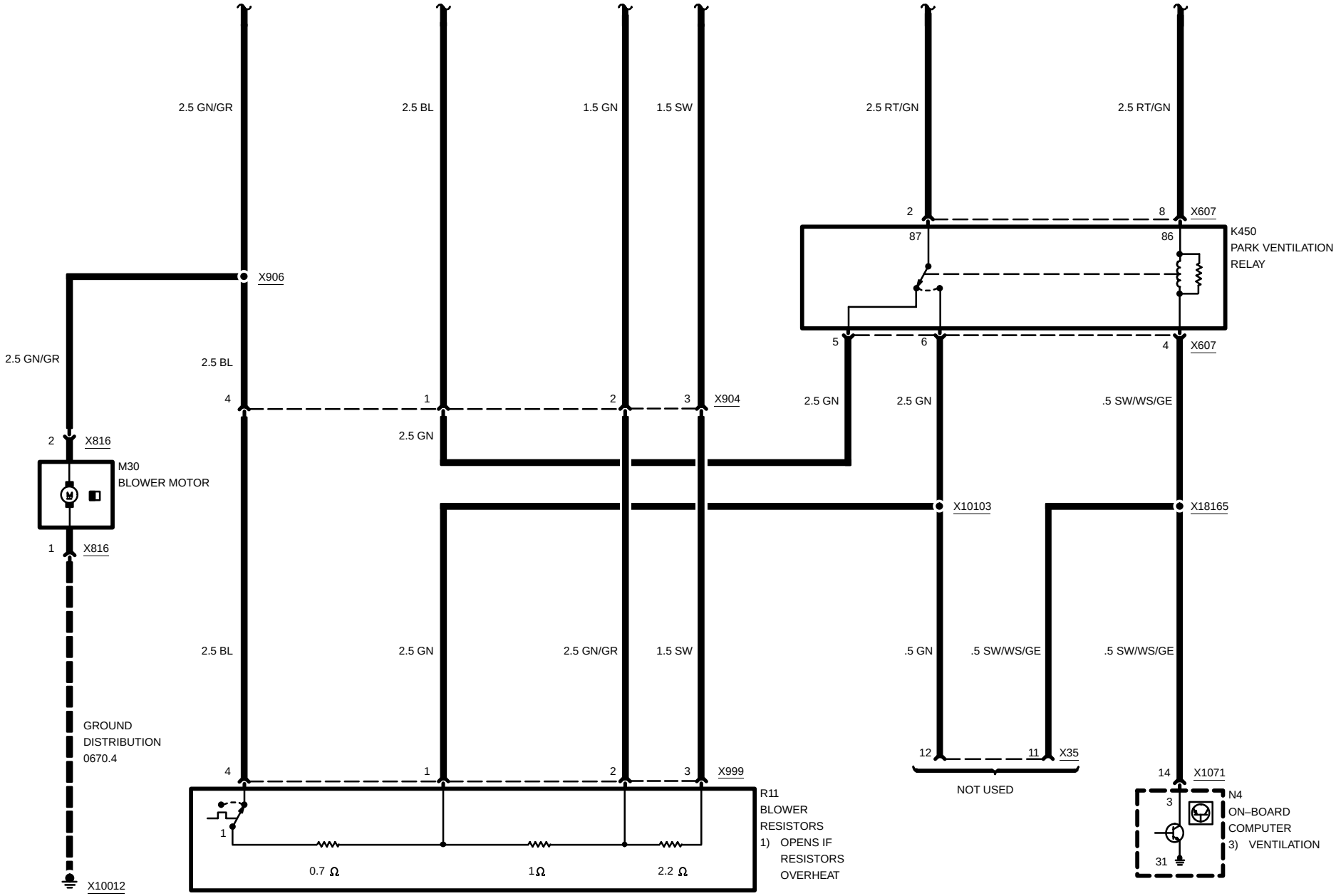



2.5 GN/BR
5
X905
S75
BLOWER SWITCH
0) OFF
1) SLOW
2) MEDIUM
3) FAST
4) MAXIMUM
4
3
2
1
0
X905
2.5 GN/GR
2.5 BL
1.5 GN
1.5 SW
1
2
3
X904
R11
BLOWER
RESISTORS
1) OPENS IF
RESISTORS
OVERHEAT
0.7 Ω
1 Ω
2.2 Ω
4
X904
X906
2.5 GN/GR
2.5 GN/GR
2
X816
M30
BLOWER MOTOR
1
X816
GROUND
DISTRIBUTION
0670.4
X10012

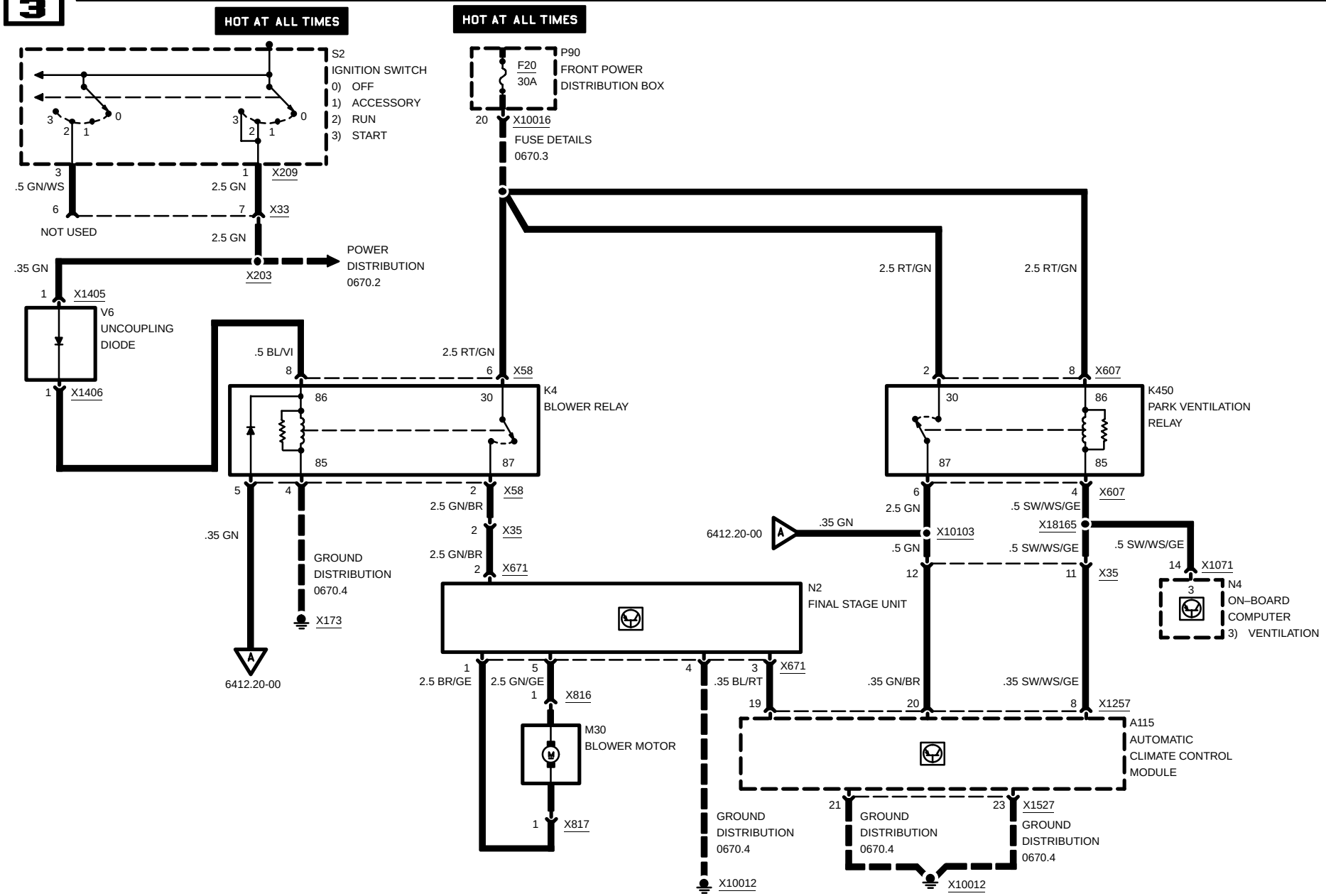

58g
LIGHT SWITCH
DETAILS
6300.0
REAR WINDOW
DEFOGGER/
ANTENNA
6424.0
.5 GR/RT
.5 BL/SW
5
.5 GR/RT
5
7
.5 BR/WS
4
X35
X899
1
A32y
THERMOSTAT
1) REAR WINDOW
DEFOGGER
31
31
6
2
7
X899
.5 BR/SW
2
X772
B11
LH HEAT
EXCHANGER
TEMPERATURE
SENSOR
1
X772
.5 BR/OR
GROUND
DISTRIBUTION
0670.4
X10010

6412.10 PARK VENTILATION WITH HR

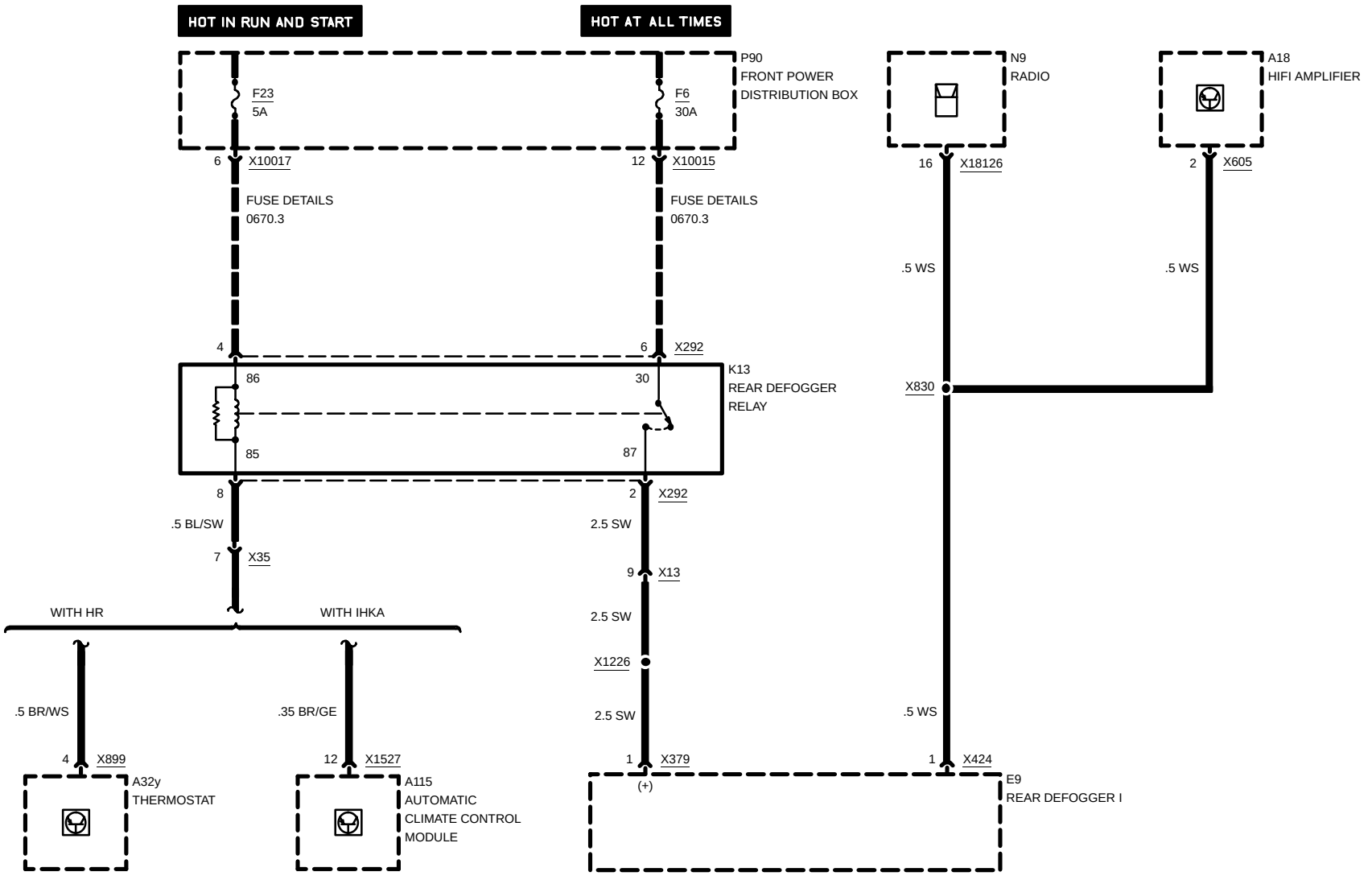



2.5 GN/GR
2.5 BL
1.5 GN
1.5 SW
2.5 RT/GN
2.5 RT/GN
X906
2
8
X607
87
86
K450
PARK VENTILATION
RELAY
5
6
4
X607
2.5 GN/GR
2.5 BL
4
1
2
3
X904
2.5 GN
2.5 GN
.5 SW/WS/GE
2
X816
M30
BLOWER MOTOR
X10103
X18165
1
X816
2.5 BL
2.5 GN
2.5 GN/GR
1.5 SW
.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
GROUND
DISTRIBUTION
0670.4
12
11
X35
NOT USED
14
X1071
4
1
2
3
X999
3
N4
ON–BOARD
COMPUTER
3) VENTILATION
R11
BLOWER
RESISTORS
1) OPENS IF
RESISTORS
OVERHEAT
1
31
0.7 Ω
1Ω
2.2 Ω
X10012

6412.20 PARK VENTILATION WITH IHKA E36

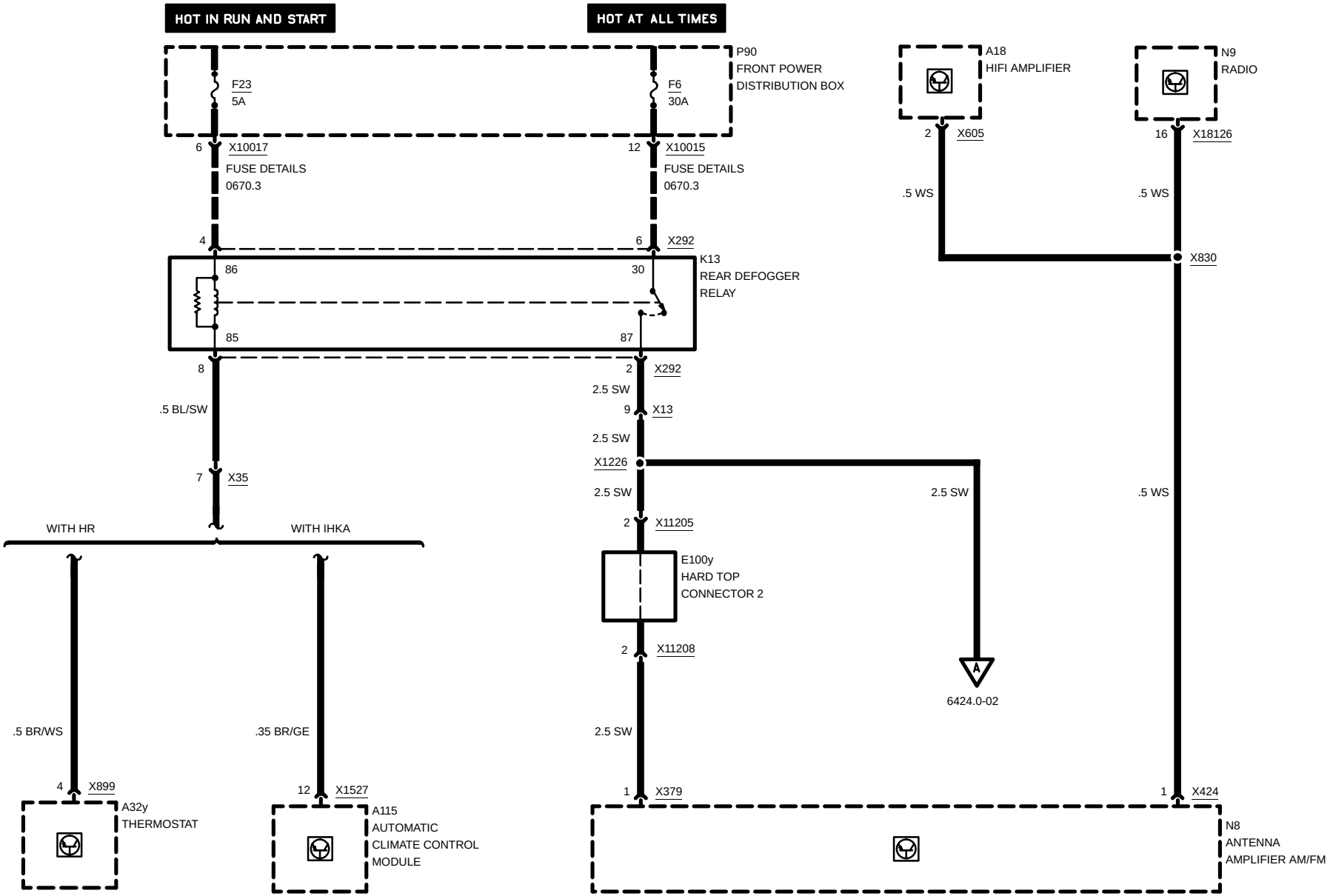


6424.0 REAR WINDOW DEFOGGER/ANTENNA



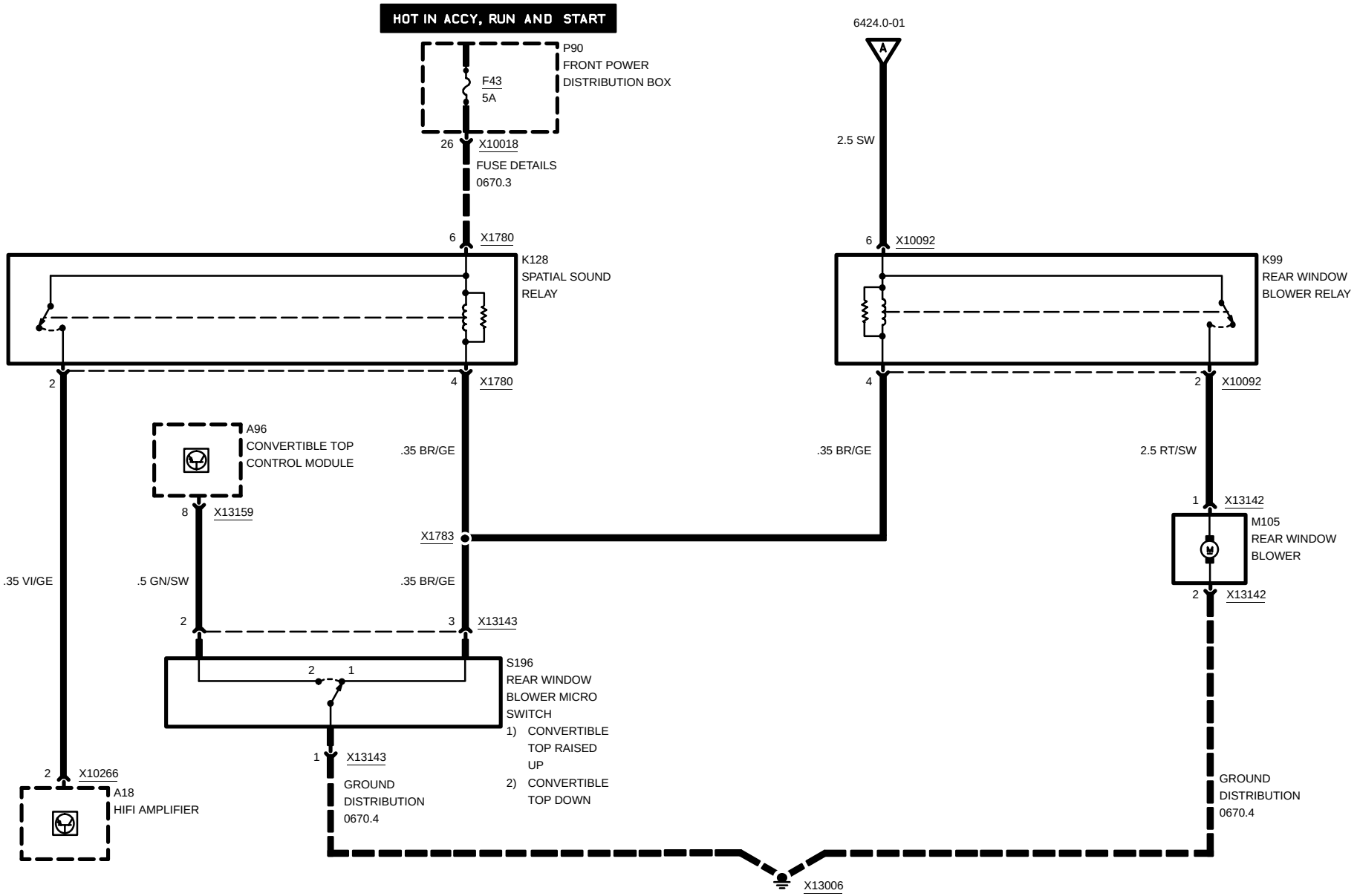
REAR WINDOW DEFOGGER/ANTENNA

CONVERTIBLE



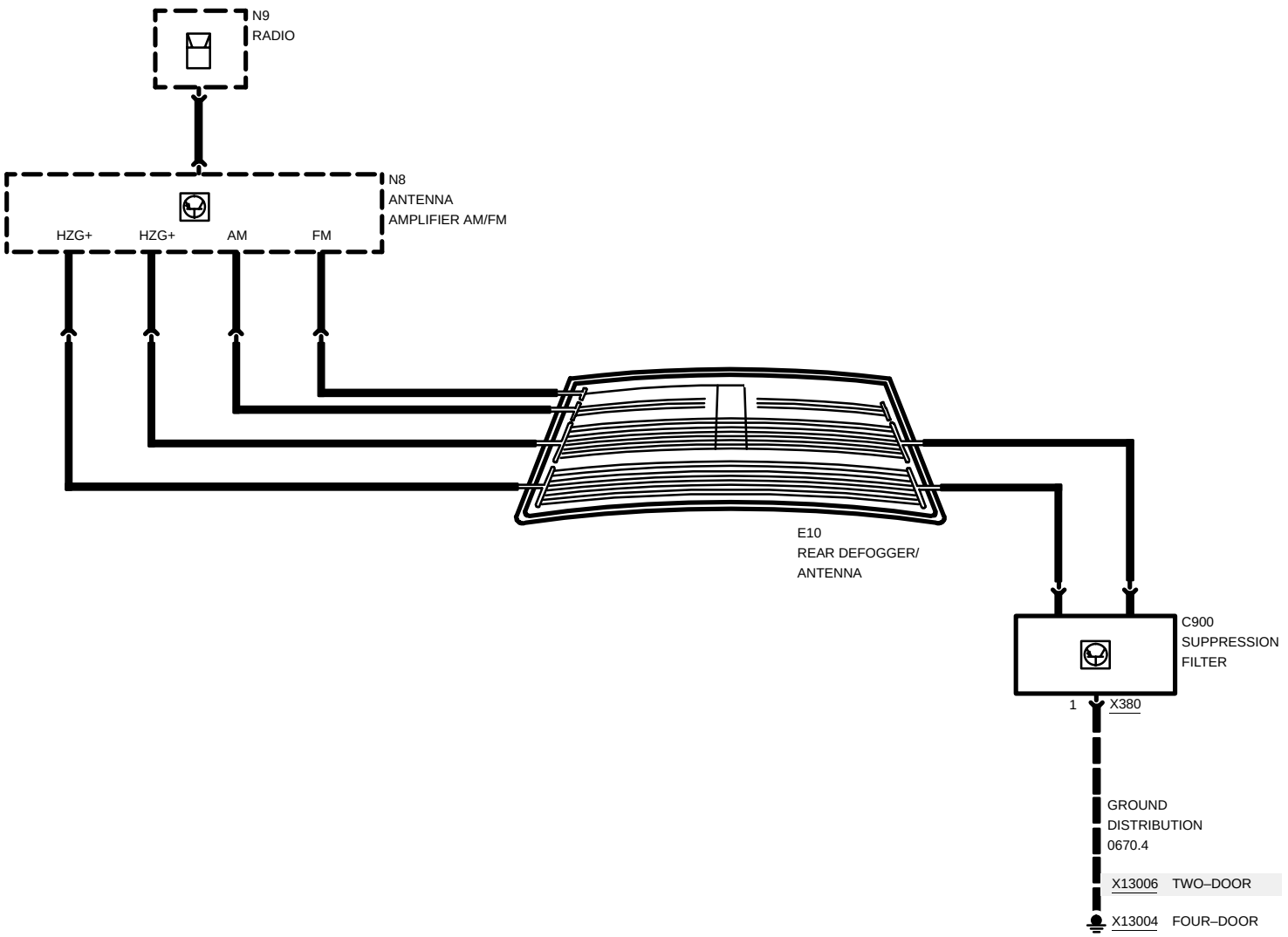
REAR WINDOW DEFOGGER/ANTENNA

CONVERTIBLE



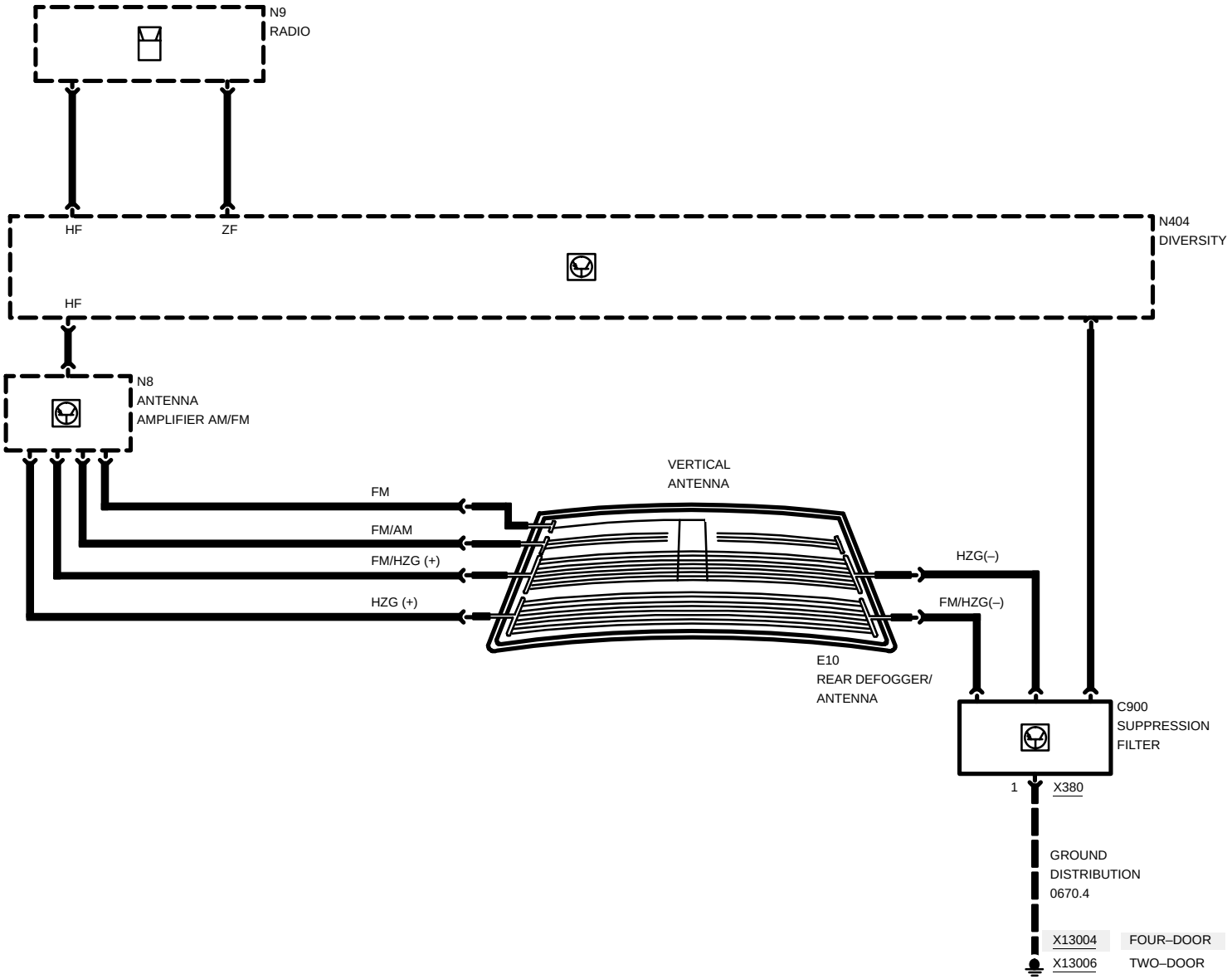
REAR WINDOW DEFOGGER/ANTENNA

REAR WINDOW ANTENNA

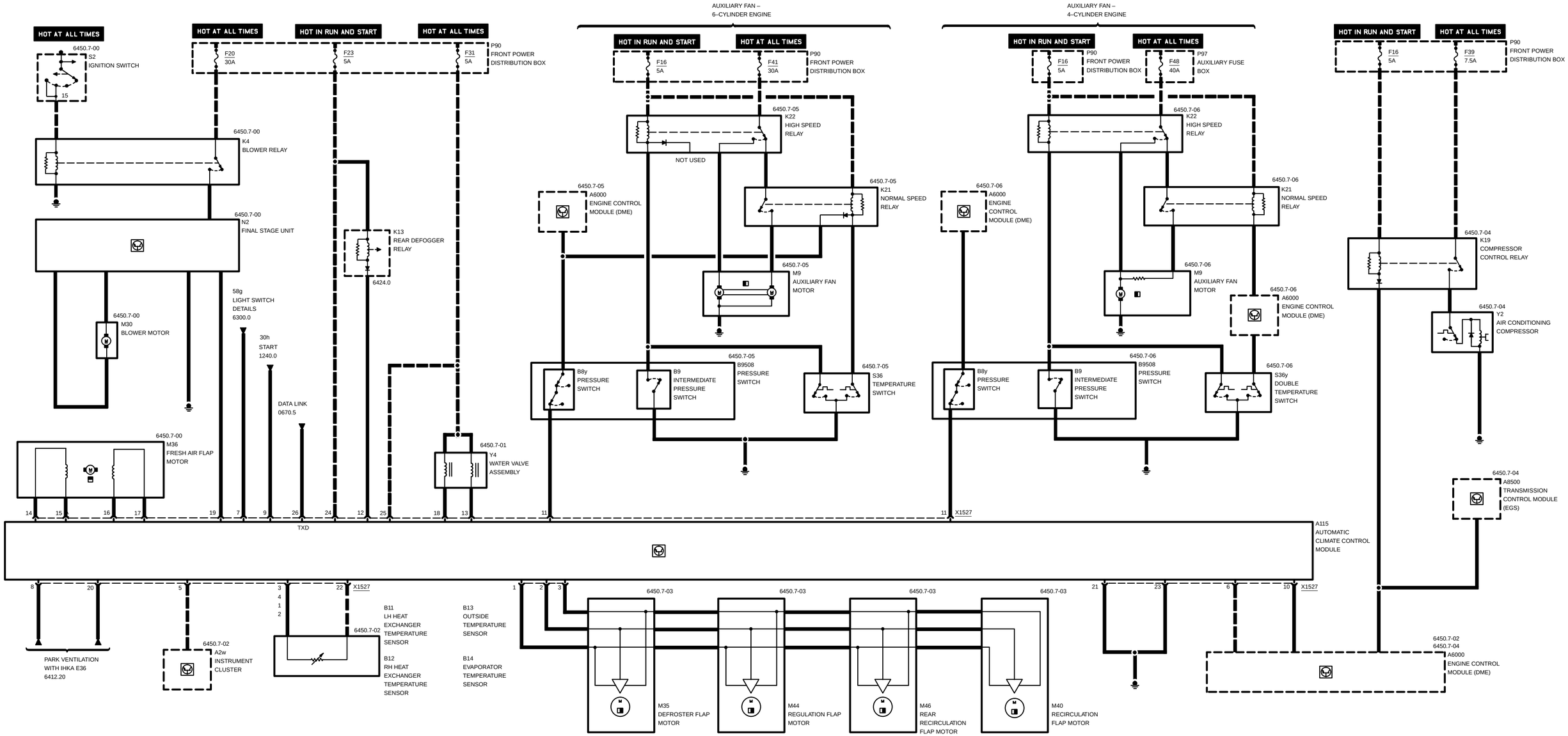


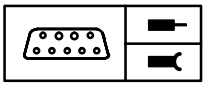
REAR WINDOW DEFOGGER/ANTENNA

3–ANTENNA–DIVERSITY



6450.7 INTEGRATED CLIMATE REGULATION (IHKA E36)





Pin Assignments

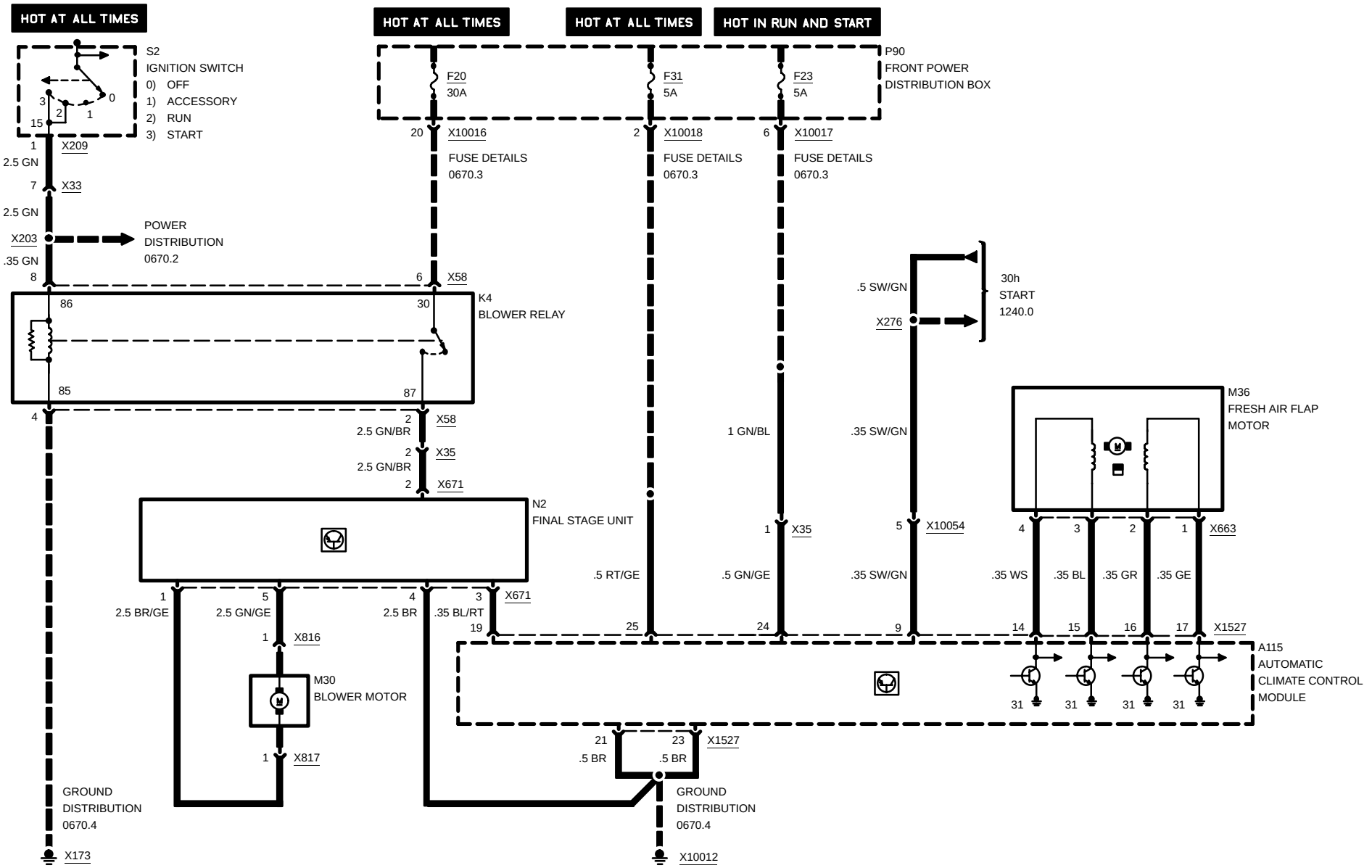
X1527

Pin	Type	Description/Function	Connection
1	E	Outside temperature	Outside temperature sensor
2	E	Evaporator temperature	Evaporator temperature sensor
3	E	Heater temperature, left	Left heat exchanger temperature sensor
4	E	Heater temperature, right	Right heat exchanger temperature sensor
5	E	Vehicle speed signal (Speedometer output signal)	Instrument cluster
6	E	RPM speed signal TD	Engine control module (DME)
7	E	Illumination input	Illumination
8	A	Output signal	On-board computer
9	E	Terminal 50	Starter
10	A	RPM speed increase	Engine control module (DME)
11	A	A/C compressor activation	Pressure switch
12	A	Rear window signal	Rear window
13	A	Water valve activation, right	Right water valve
14	A	Fresh air flap motor activation	Fresh air flap motor
15	A	Fresh air flap motor activation	Fresh air flap motor
16	A	Fresh air flap motor activation	Fresh air flap motor
17	A	Fresh air flap motor activation	Fresh air flap motor
18	A	Water valve activation, left	Left water valve
19	A	A/C fan activation	A/C fan final stage
20	E	Independent ventilation	Relay box
21	M	Ground	Control panel
22	M	Ground	Mixing actuator
23	M	Ground	Control panel
24	E	Terminal 15	Fuse
25	E	Terminal 30	Fuse
26	E/A	Diagnostic data link	Data link connector

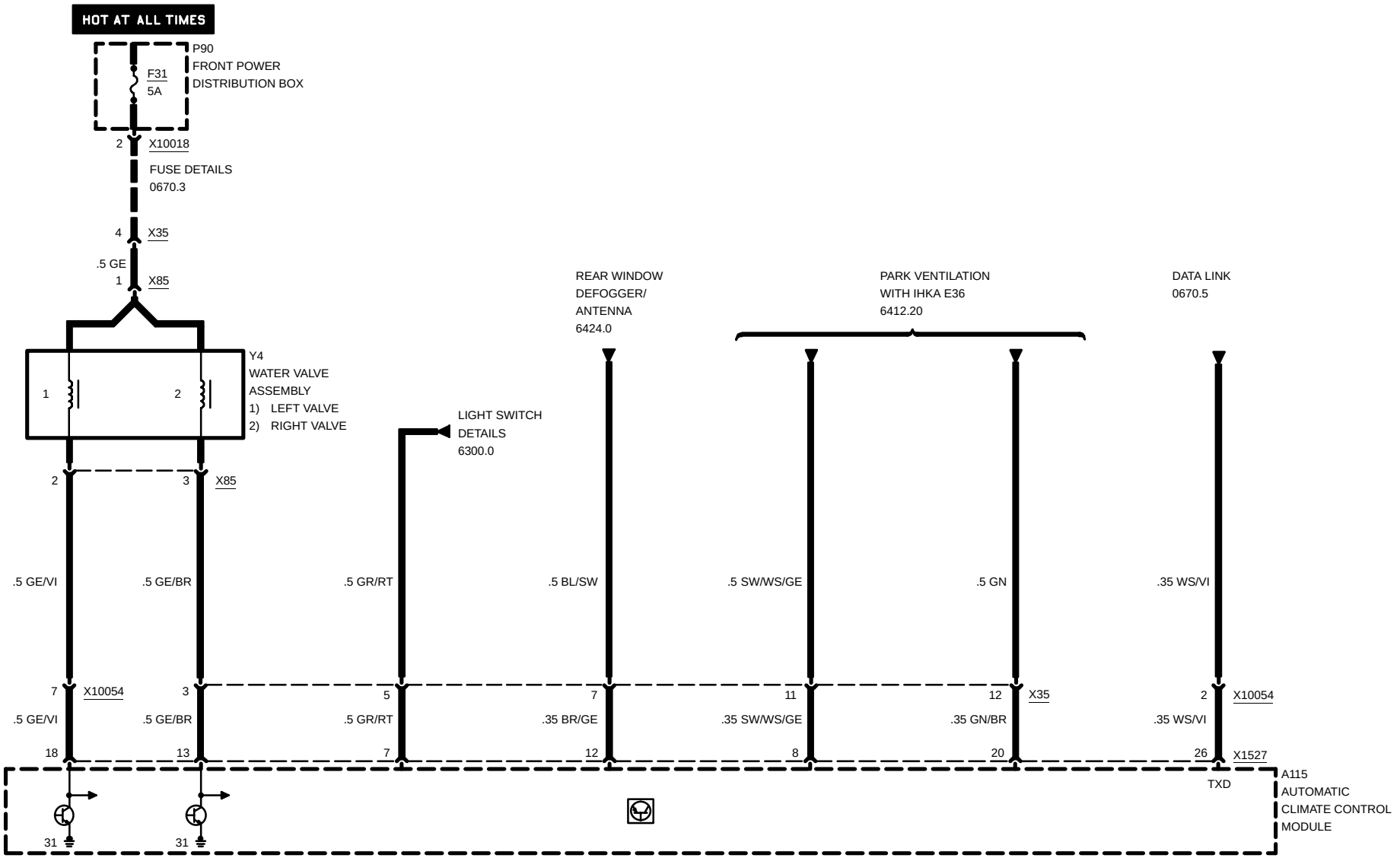
E = Input, A = Output, M = Ground

INTEGRATED CLIMATE REGULATION (IHKA E36)

POWER, AIR FLOW CONTROL

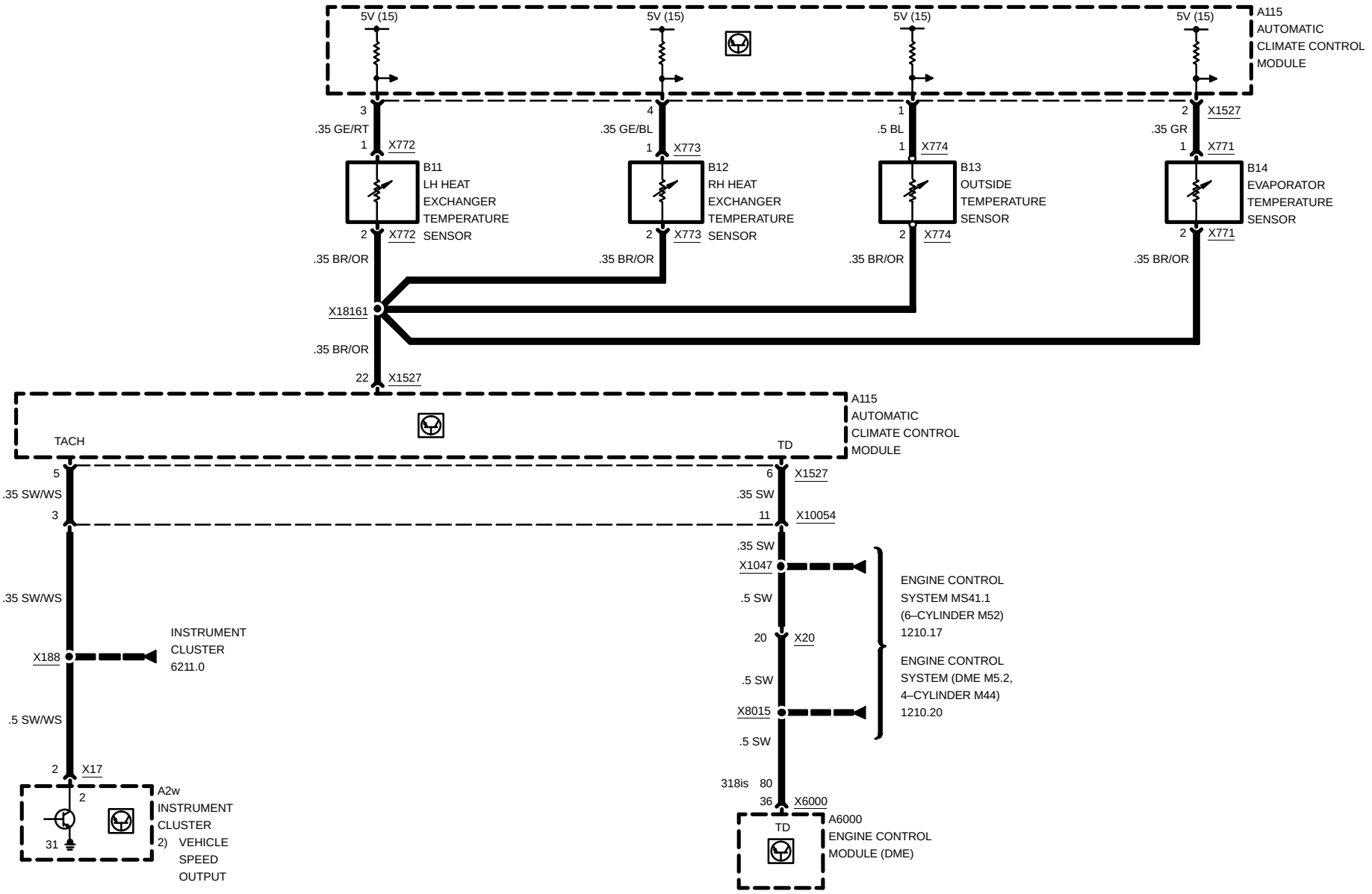


INTEGRATED CLIMATE REGULATION (IHKA E36)



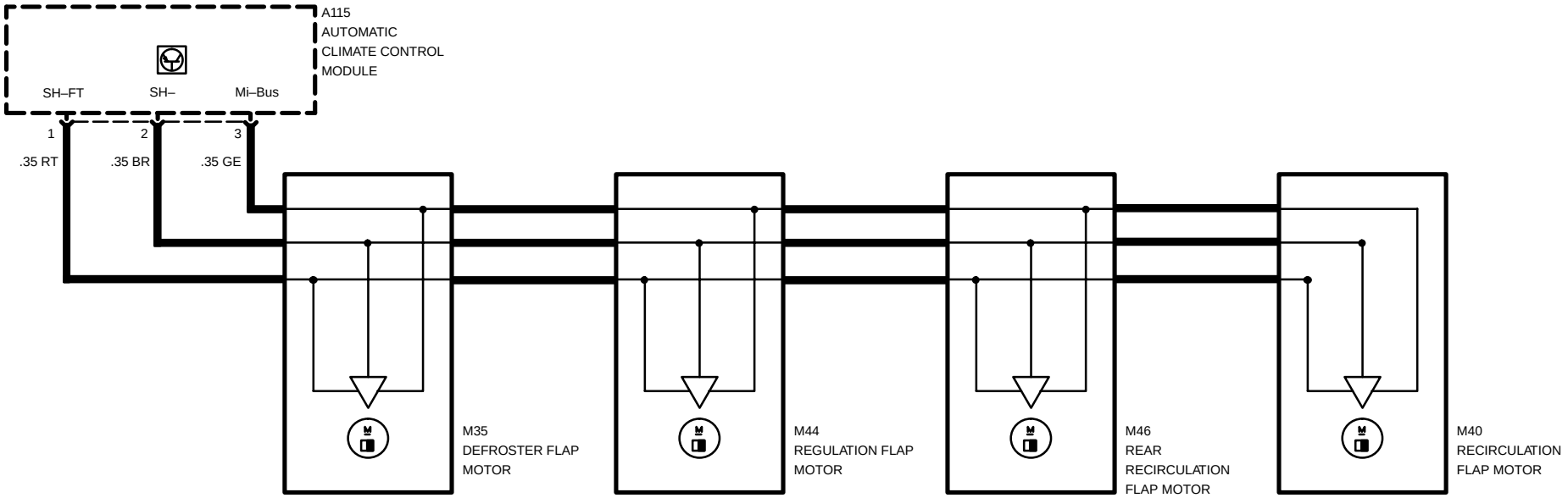
INTEGRATED CLIMATE REGULATION (IHKA E36)

TEMPERATURE CONTROL



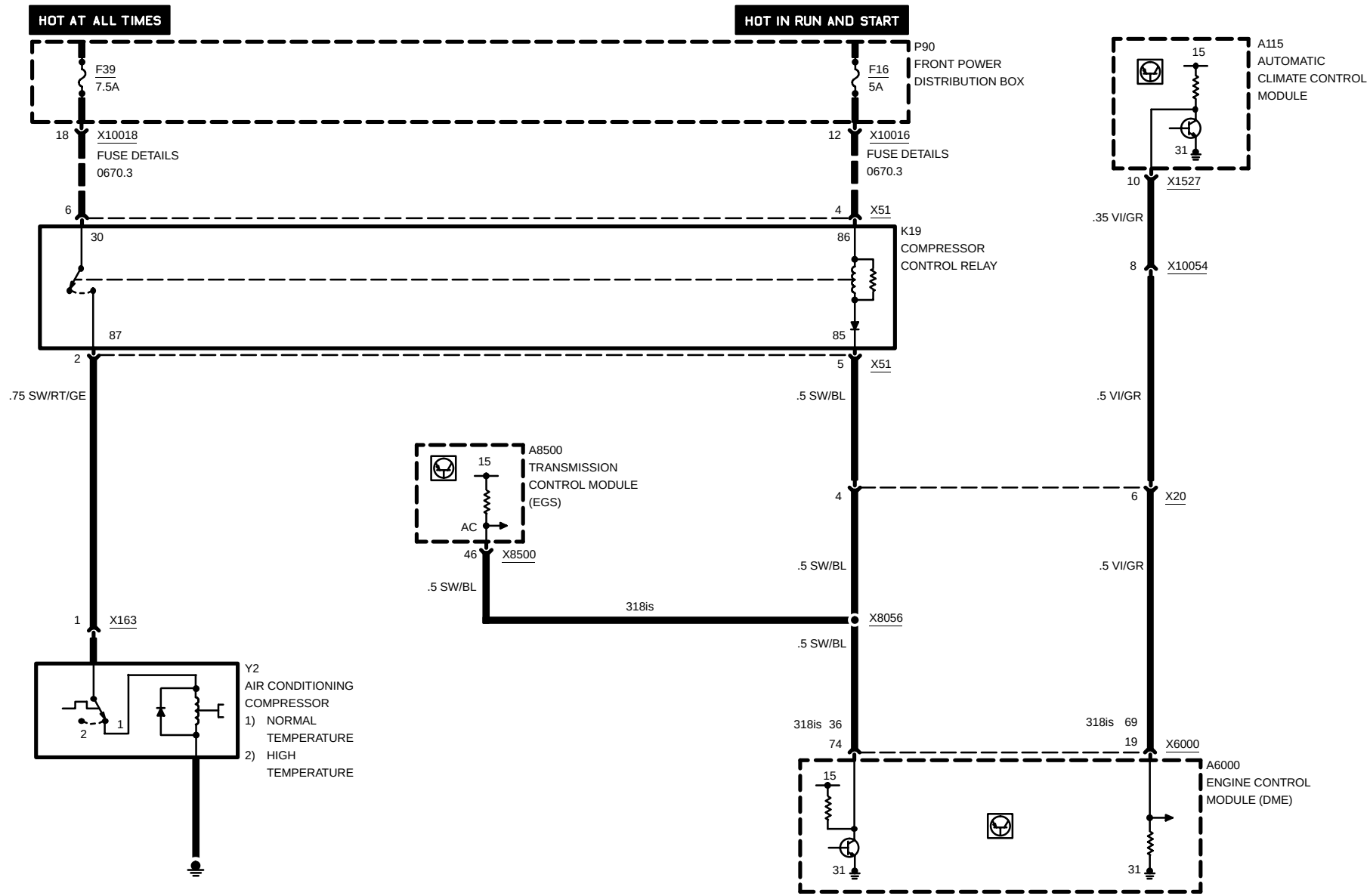
INTEGRATED CLIMATE REGULATION (IHKA E36)

AIR DELIVERY



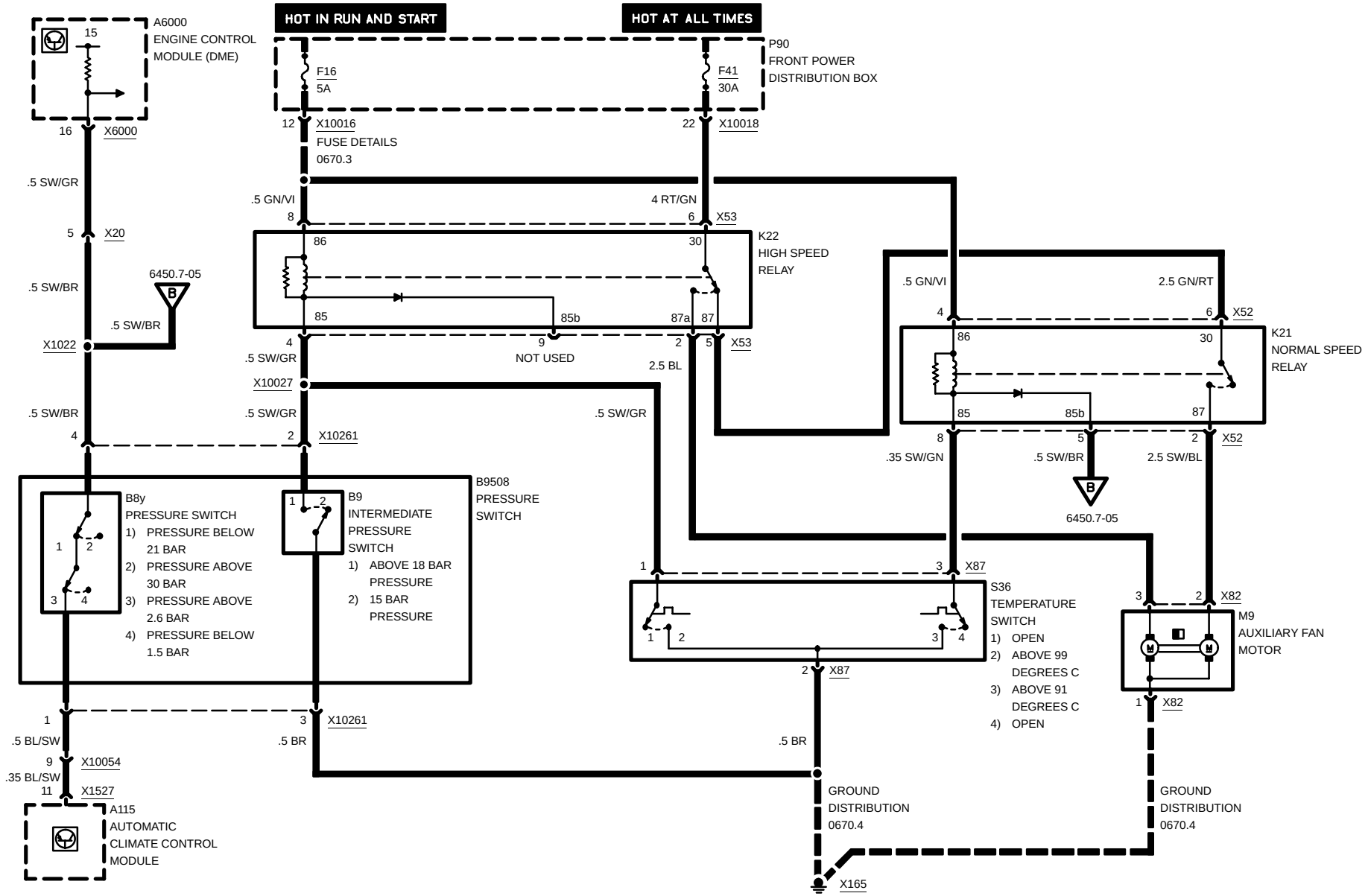
INTEGRATED CLIMATE REGULATION (IHKA E36)

COMPRESSOR CONTROLS



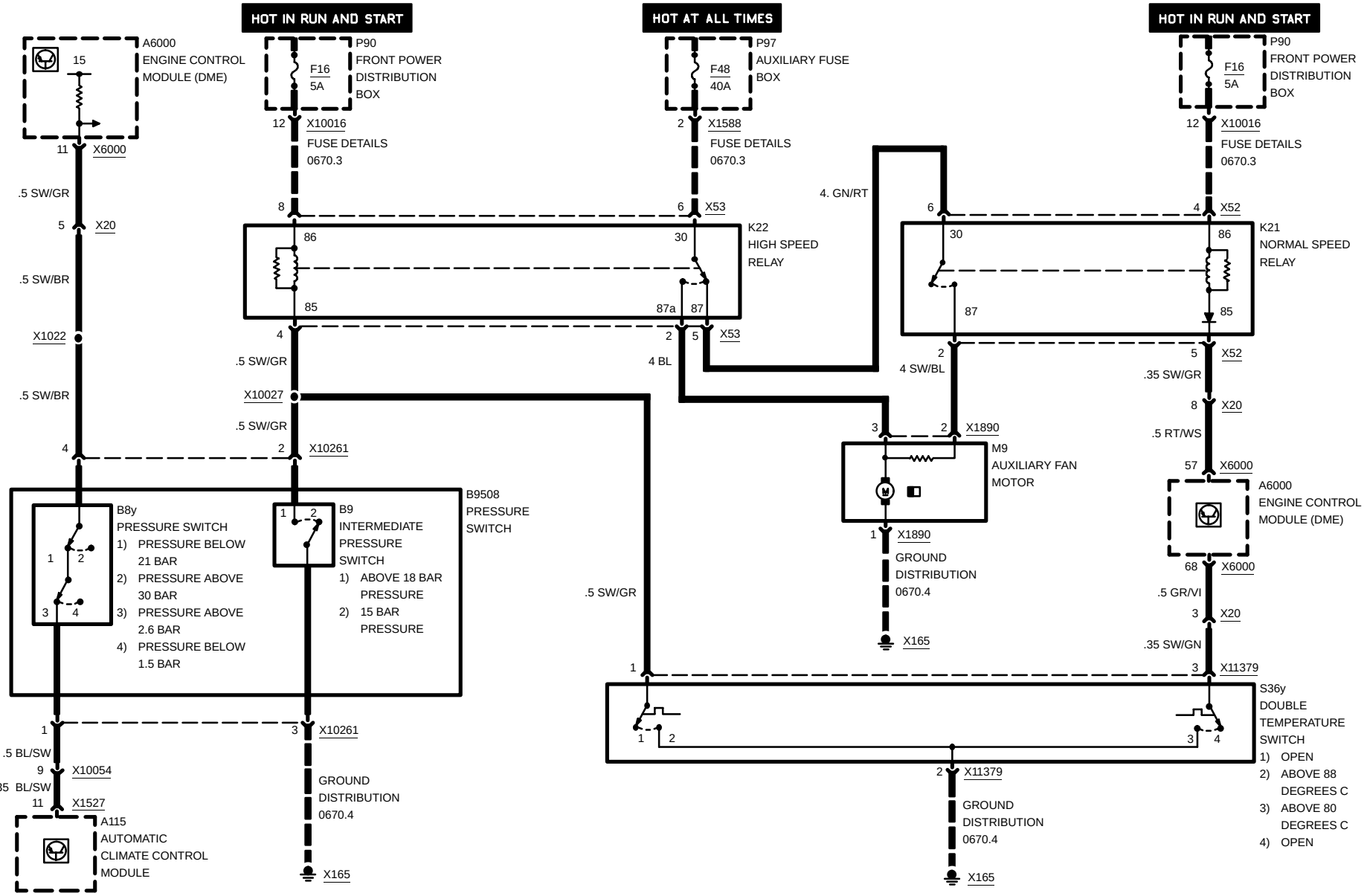
INTEGRATED CLIMATE REGULATION (IHKA E36)

AUXILIARY FAN – 6–CYLINDER ENGINE



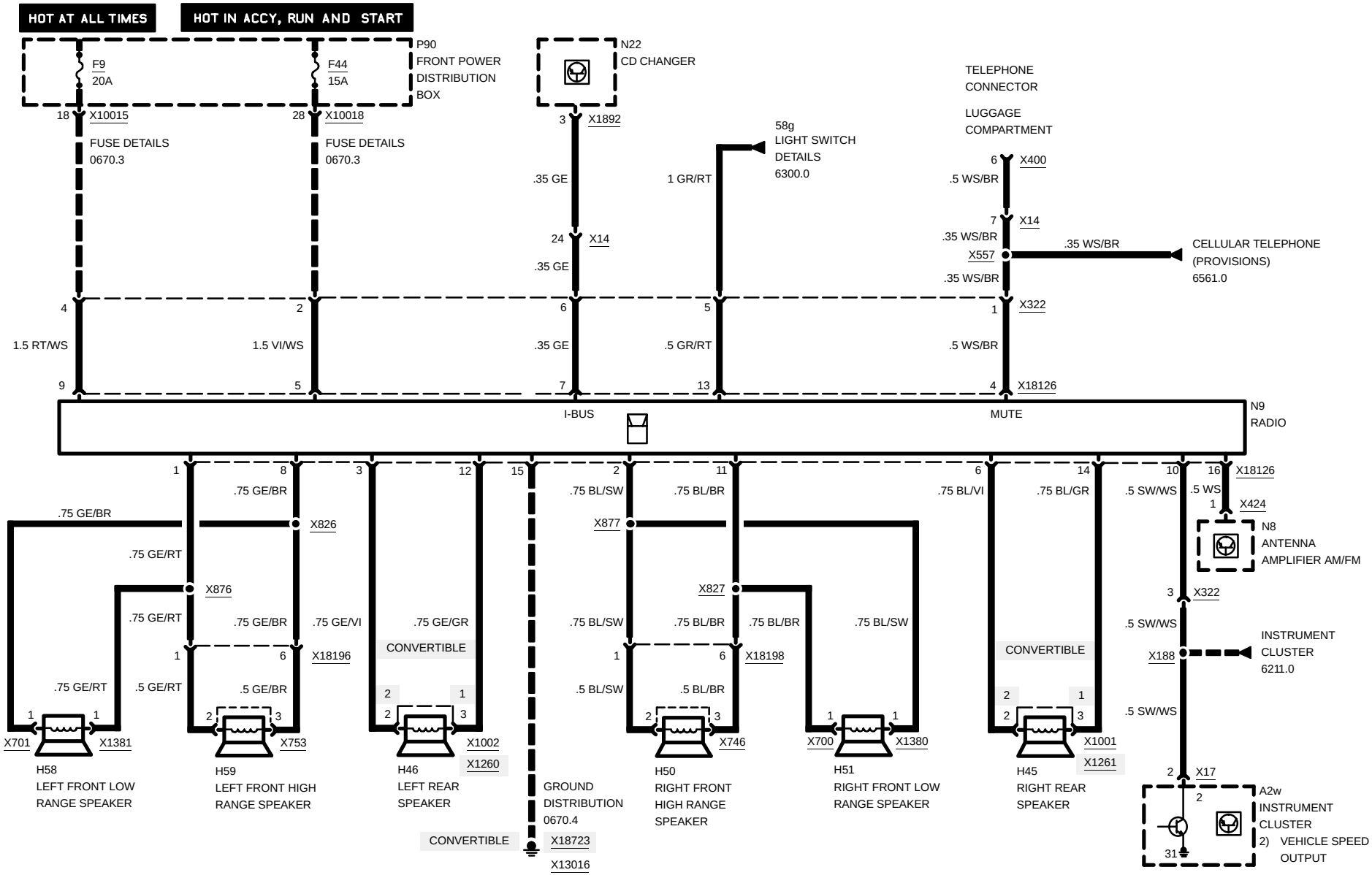
INTEGRATED CLIMATE REGULATION (IHKA E36)

AUXILIARY FAN – 4–CYLINDER ENGINE

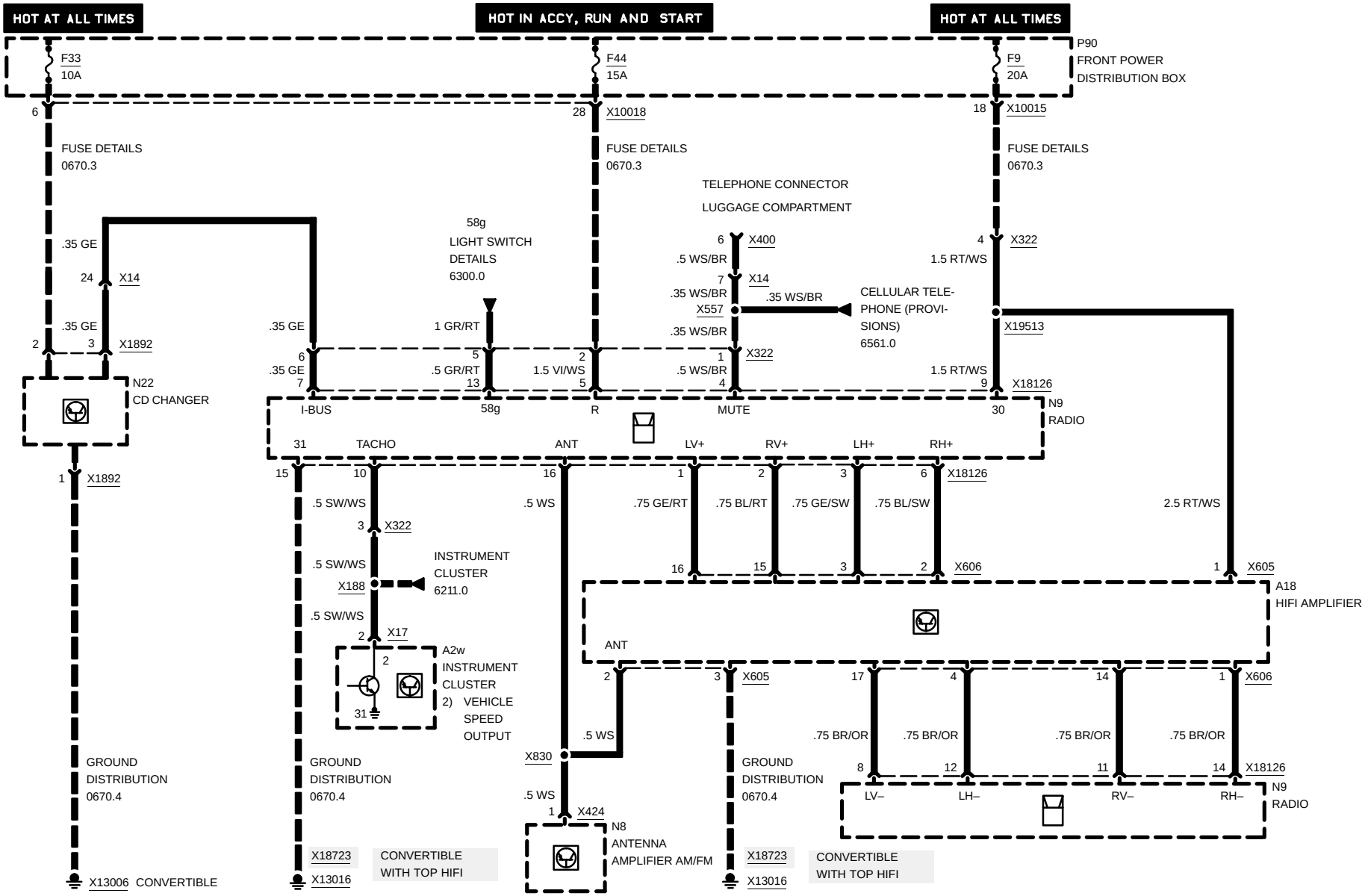


6510.0 RADIO/STEREO

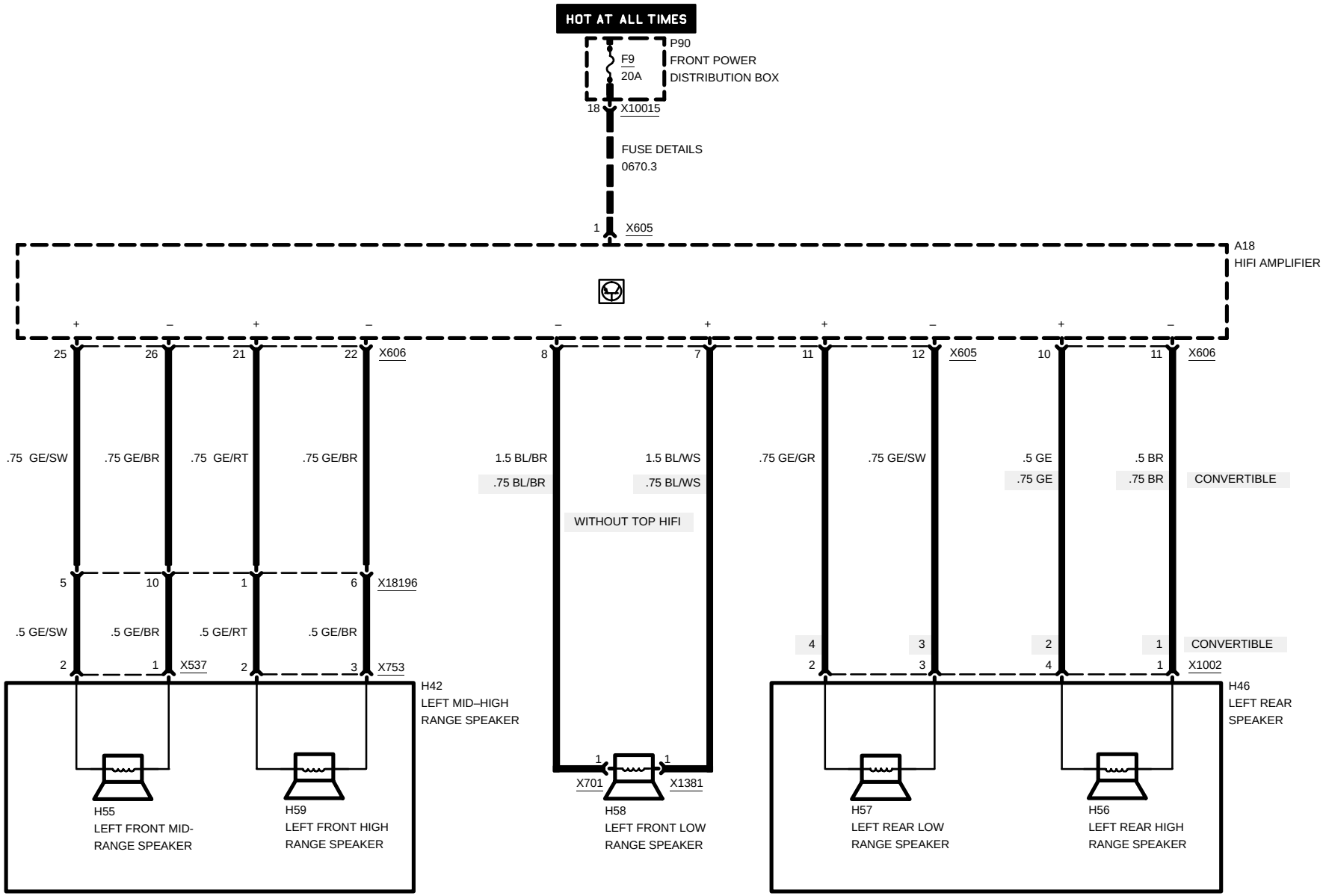
STEREO, 6–SPEAKER SYSTEM



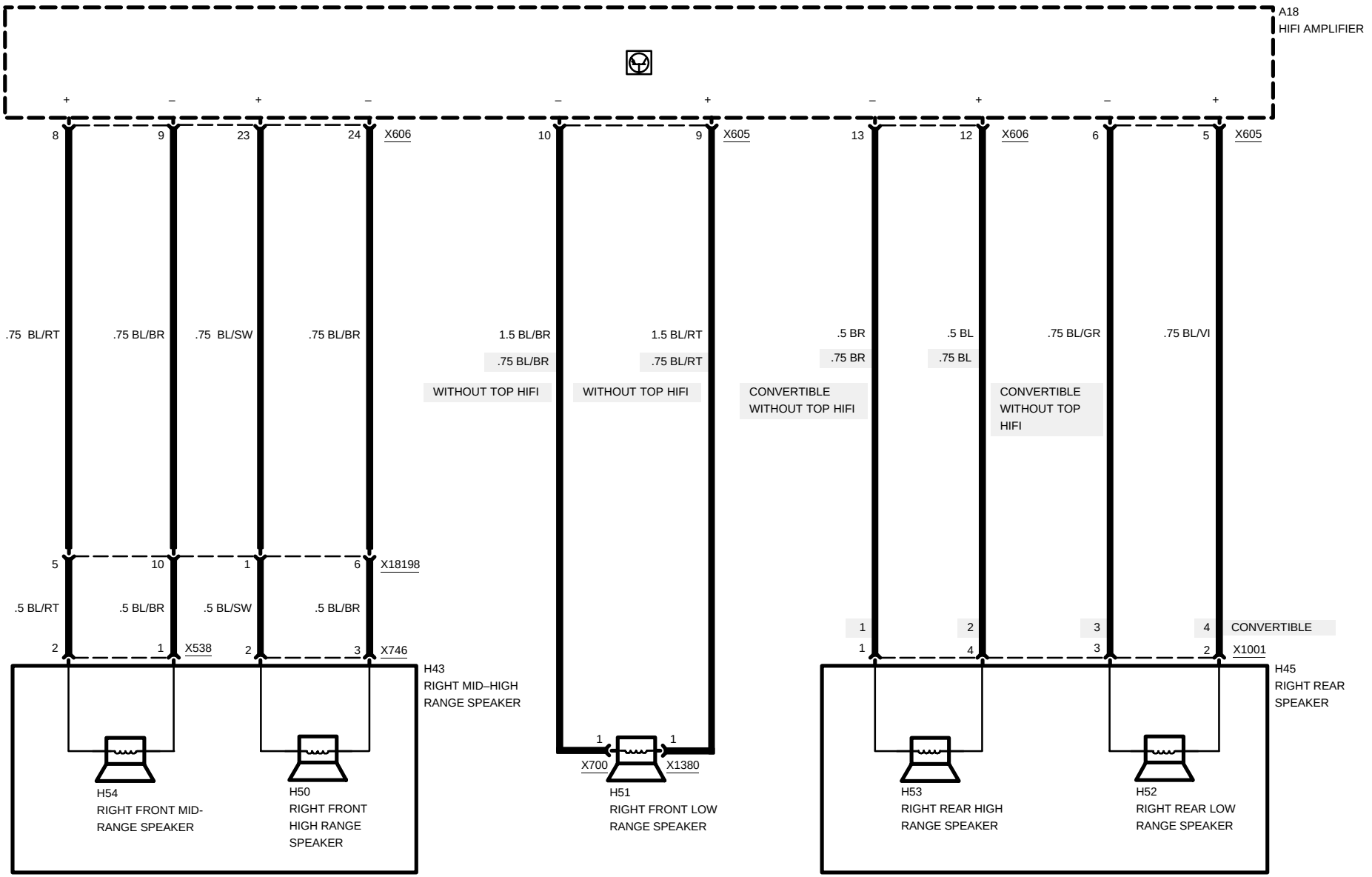
6510.1 RADIO/HIFI/TOP HIFI



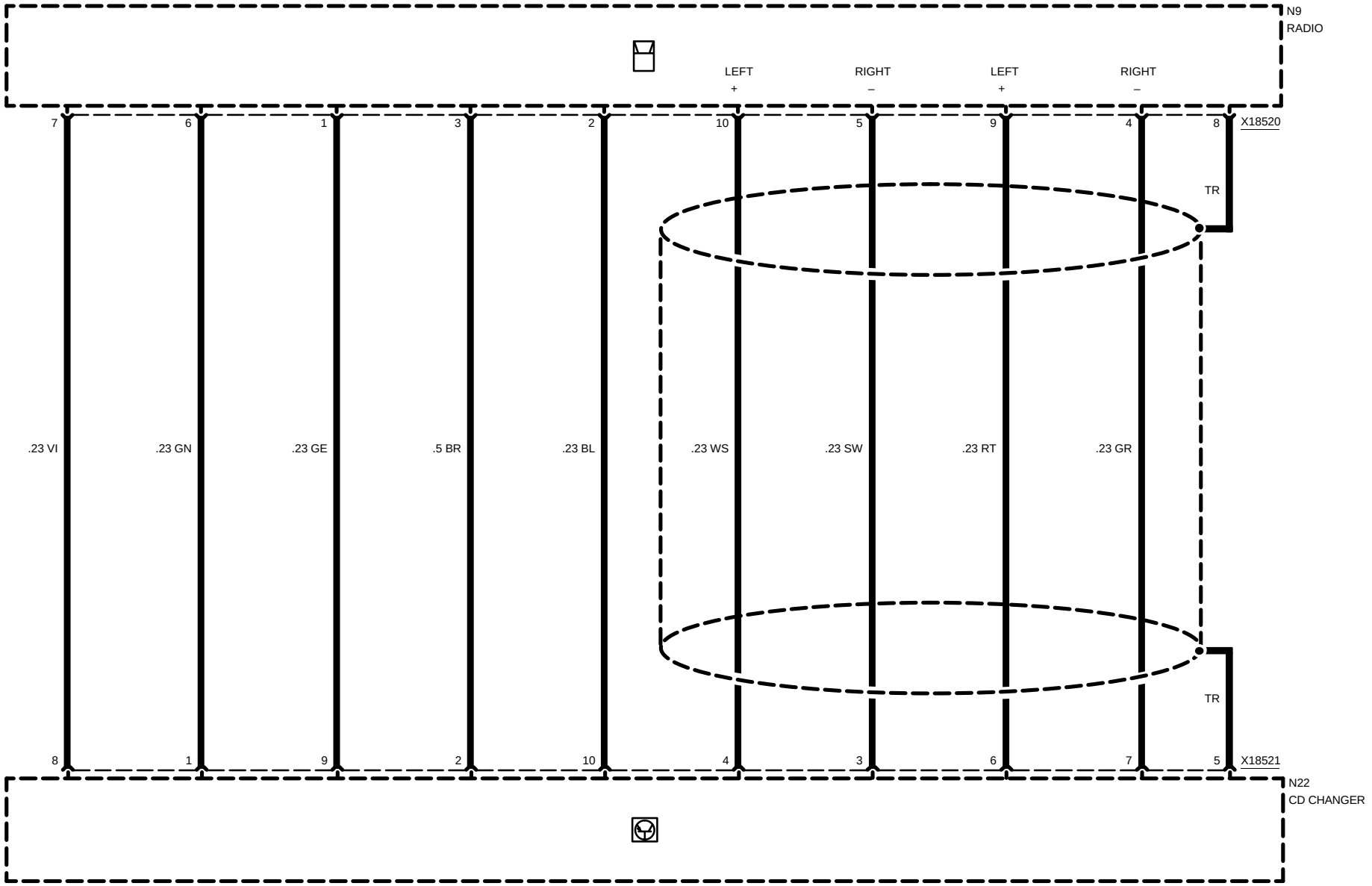
RADIO/HIFI/TOP HIFI



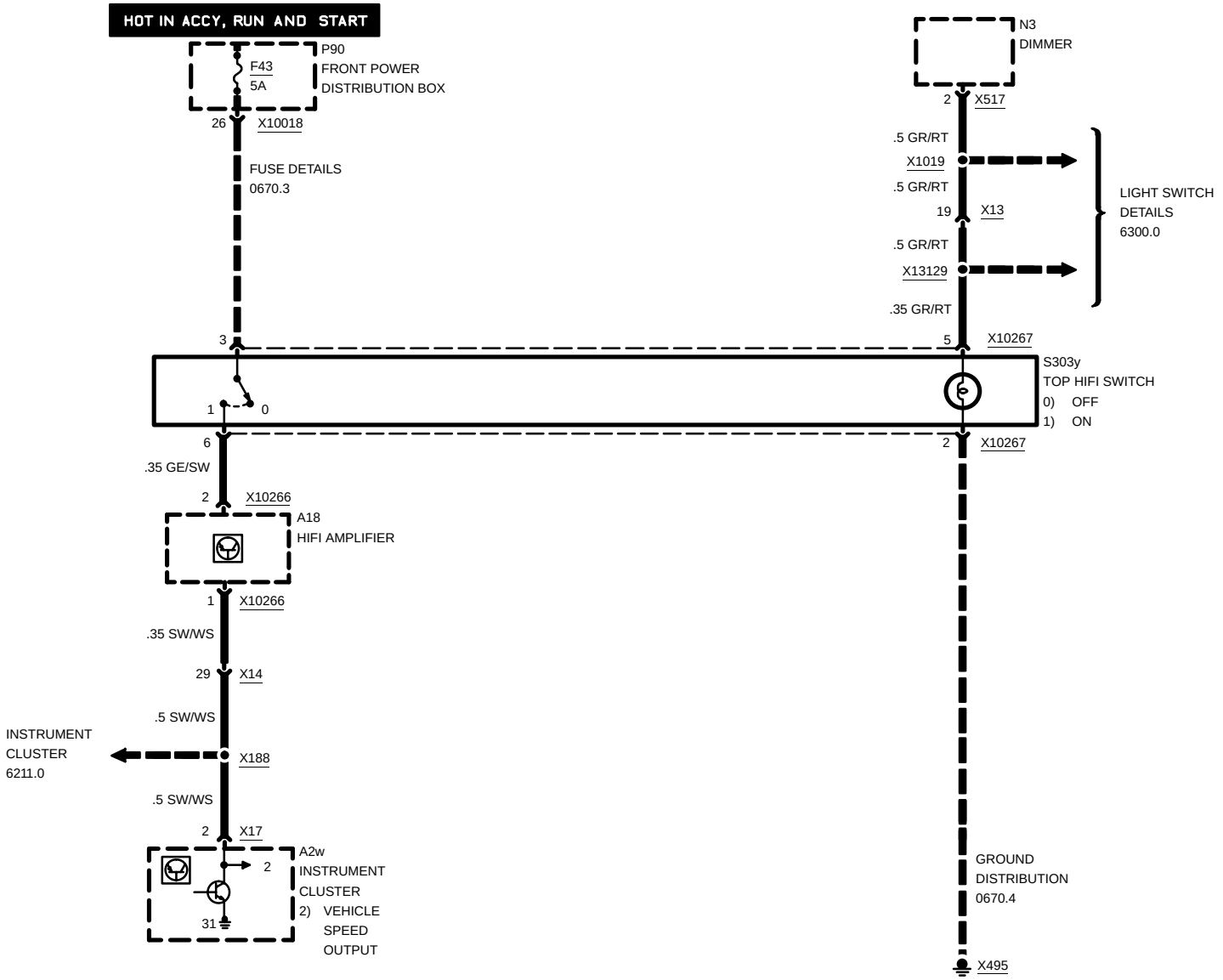
RADIO/HIFI/TOP HIFI

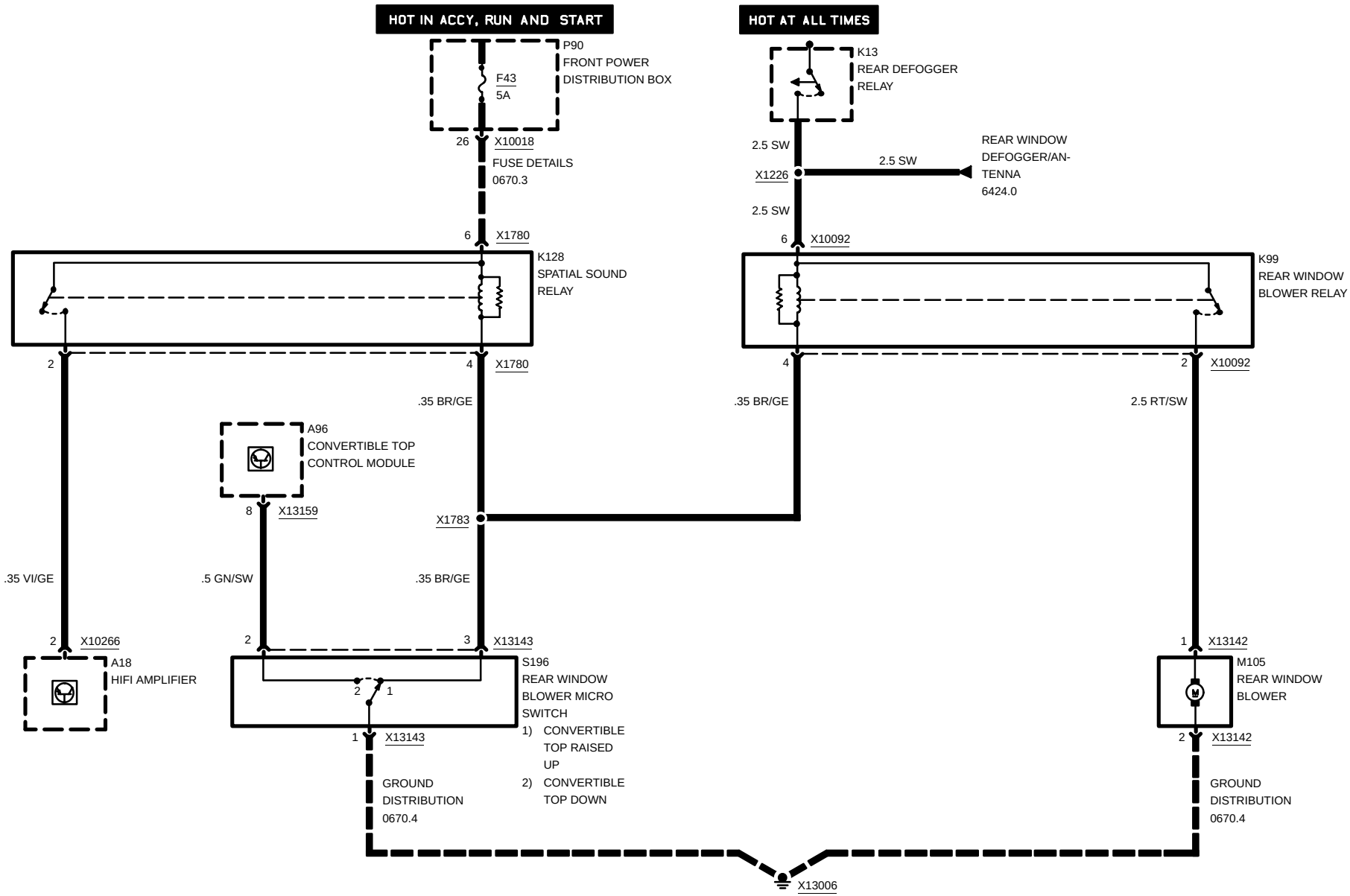


RADIO/HIFI/TOP HIFI

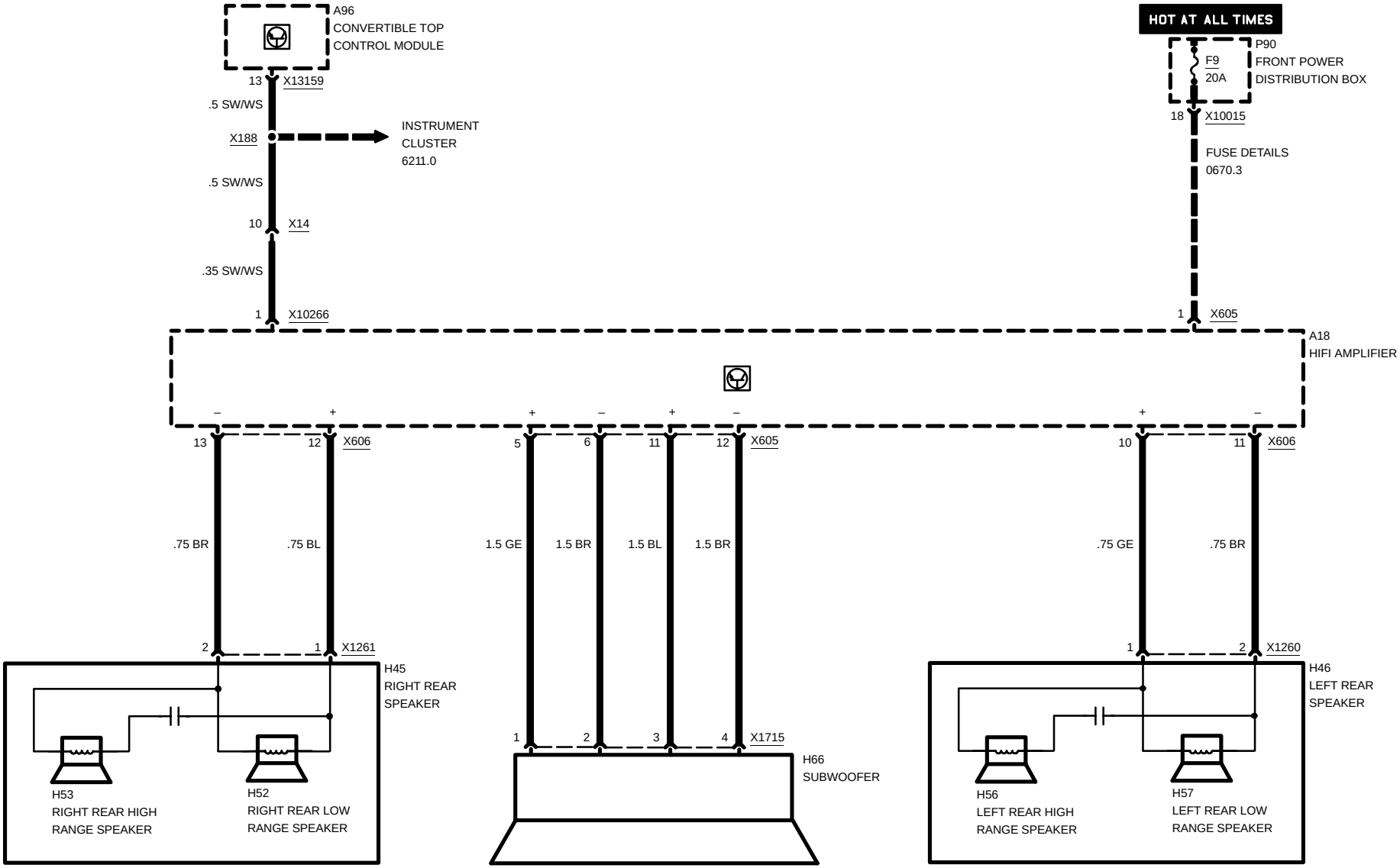


TOP HIFI


HOT IN ACCY, RUN AND START
P90
FRONT POWER
DISTRIBUTION BOX
F43
5A
26
X10018
FUSE DETAILS
0670.3
N3
DIMMER
2
X517
.5 GR/RT
X1019
.5 GR/RT
19
X13
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
X13129
.35 GR/RT
5
X10267
3
S303y
TOP HIFI SWITCH
0) OFF
1) ON
1
0
6
.35 GE/SW
2
X10266
A18
HIFI AMPLIFIER
1
X10266
.35 SW/WS
29
X14
.5 SW/WS
INSTRUMENT
CLUSTER
6211.0
X188
.5 SW/WS
2
X17
A2w
INSTRUMENT
CLUSTER
2) VEHICLE
SPEED
OUTPUT
2
31
2
X10267
GROUND
DISTRIBUTION
0670.4
X495

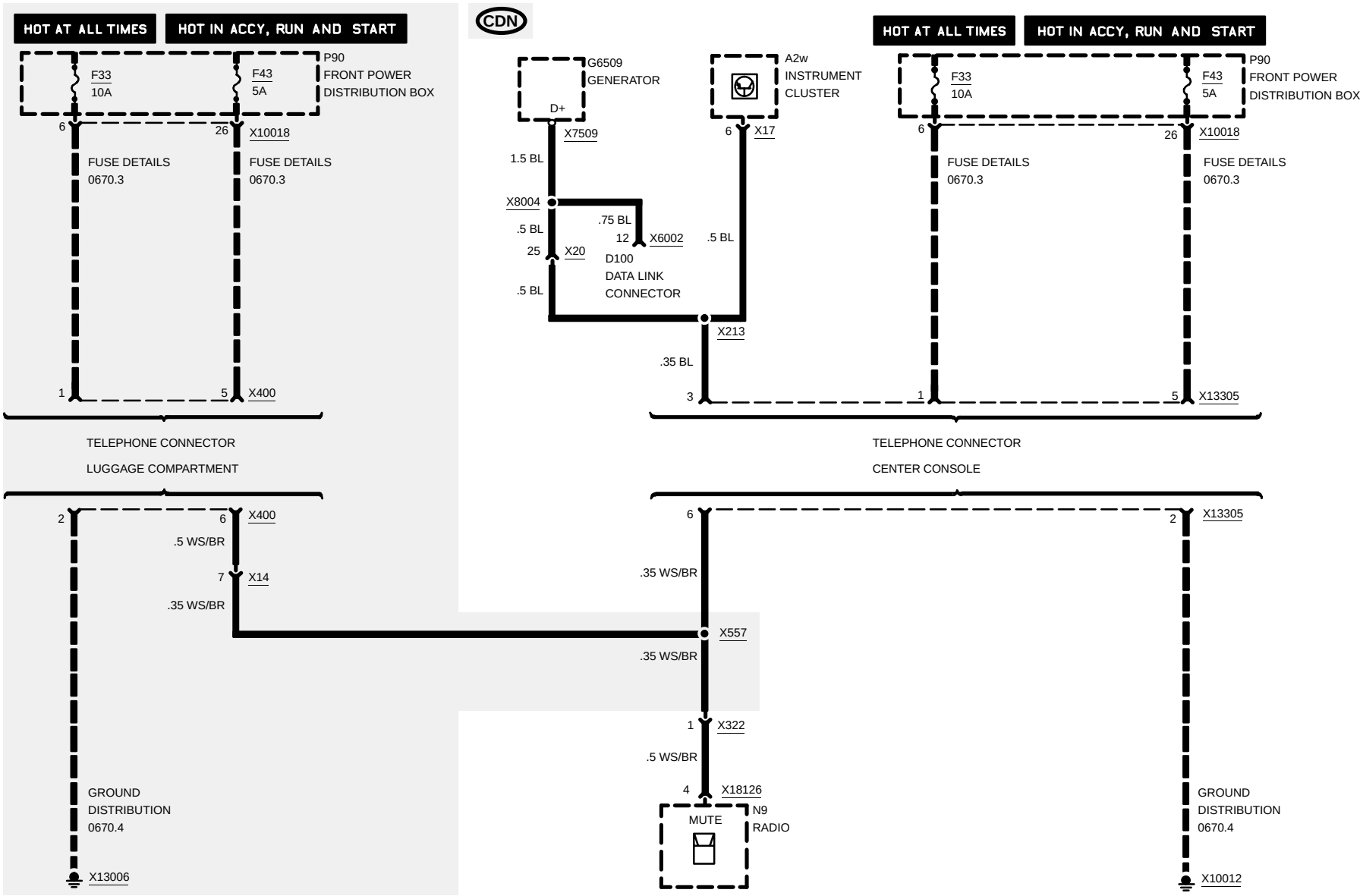

HOT IN ACCY, RUN AND START
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F43
5A
26
X10018
FUSE DETAILS
0670.3
K13
REAR DEFOGGER
RELAY
2.5 SW
2.5 SW
REAR WINDOW
DEFOGGER/AN-
TENNA
6424.0
X1226
2.5 SW
6
X1780
6
X10092
K128
SPATIAL SOUND
RELAY
K99
REAR WINDOW
BLOWER RELAY
2
4
X1780
4
2
X10092
.35 BR/GE
.35 BR/GE
2.5 RT/SW
A96
CONVERTIBLE TOP
CONTROL MODULE
8
X13159
X1783
.35 VI/GE
.5 GN/SW
.35 BR/GE
2
X10266
A18
HIFI AMPLIFIER
2
3
X13143
S196
REAR WINDOW
BLOWER MICRO
SWITCH
1) CONVERTIBLE
TOP RAISED
UP
2) CONVERTIBLE
TOP DOWN
2
1
1
X13143
GROUND
DISTRIBUTION
0670.4
1
X13142
M105
REAR WINDOW
BLOWER
2
X13142
GROUND
DISTRIBUTION
0670.4
X13006

TOP HIFI

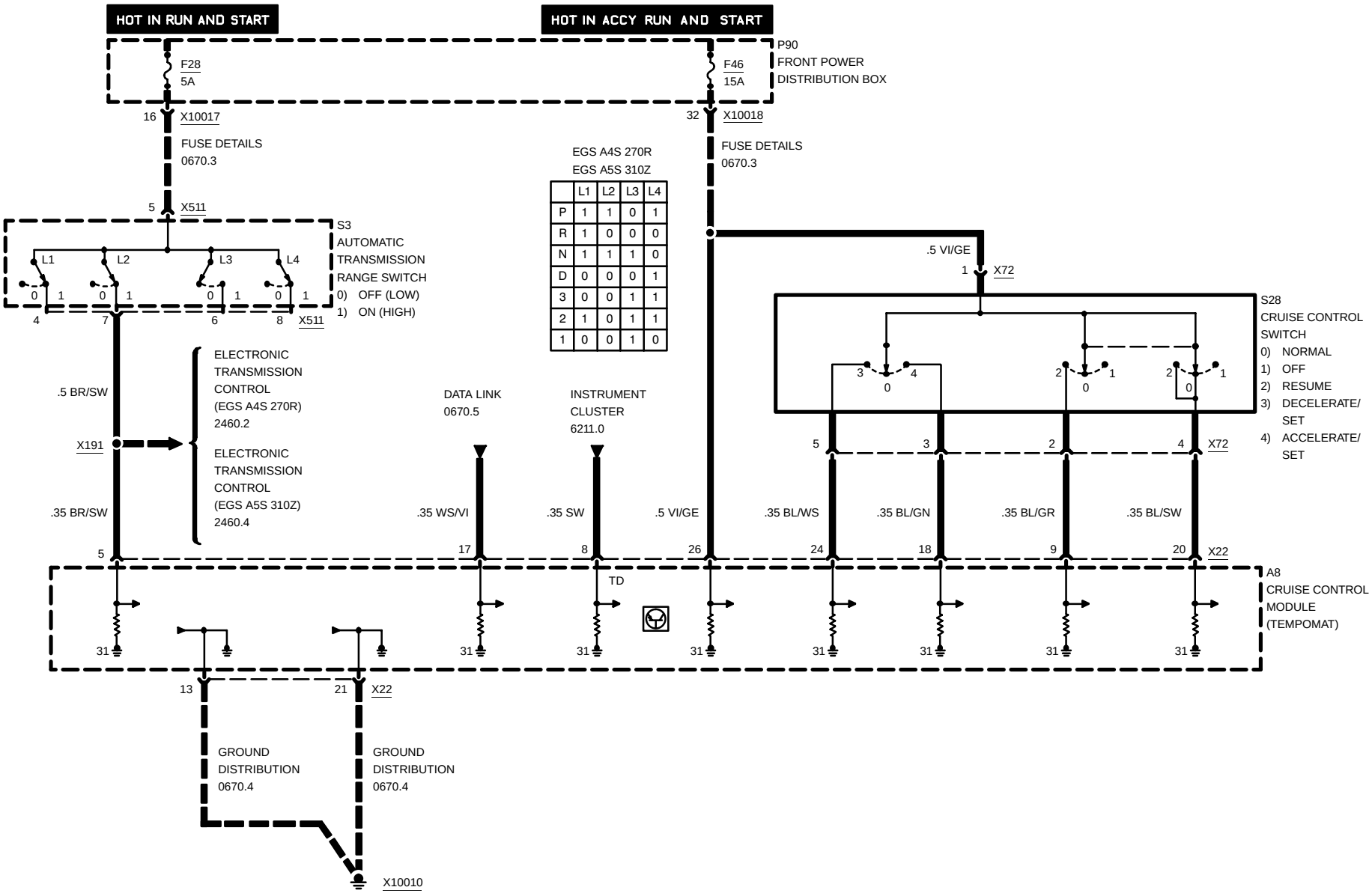

A96
CONVERTIBLE TOP
CONTROL MODULE
13 X13159
.5 SW/WS
X188
INSTRUMENT
CLUSTER
6211.0
.5 SW/WS
10 X14
.35 SW/WS
1 X10266
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION BOX
F9
20A
18 X10015
FUSE DETAILS
0670.3
1 X605
A18
HIFI AMPLIFIER
– + + – + – + –
13 12 X606
5 6 11 12 X605
10 11 X606
.75 BR .75 BL
1.5 GE 1.5 BR 1.5 BL 1.5 BR
.75 GE .75 BR
2 1 X1261
1 2 3 4 X1715
1 2 X1260
H45
RIGHT REAR
SPEAKER
H53
RIGHT REAR HIGH
RANGE SPEAKER
H52
RIGHT REAR LOW
RANGE SPEAKER
H66
SUBWOOFER
H46
LEFT REAR
SPEAKER
H56
LEFT REAR HIGH
RANGE SPEAKER
H57
LEFT REAR LOW
RANGE SPEAKER

6561.0 CELLULAR TELEPHONE (PROVISIONS)

PROVISIONS

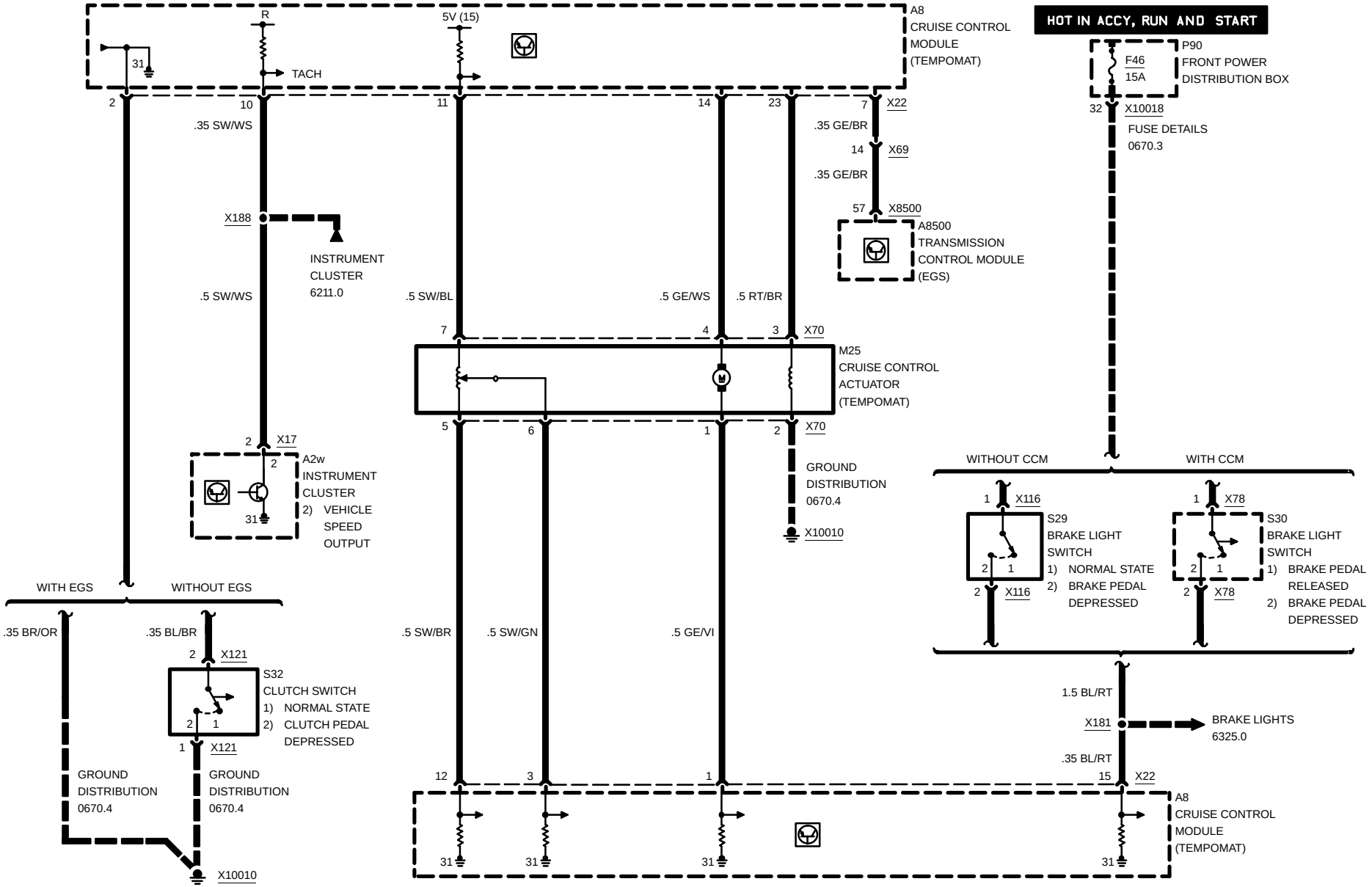


6571.0 CRUISE CONTROL (TEMPOMAT)

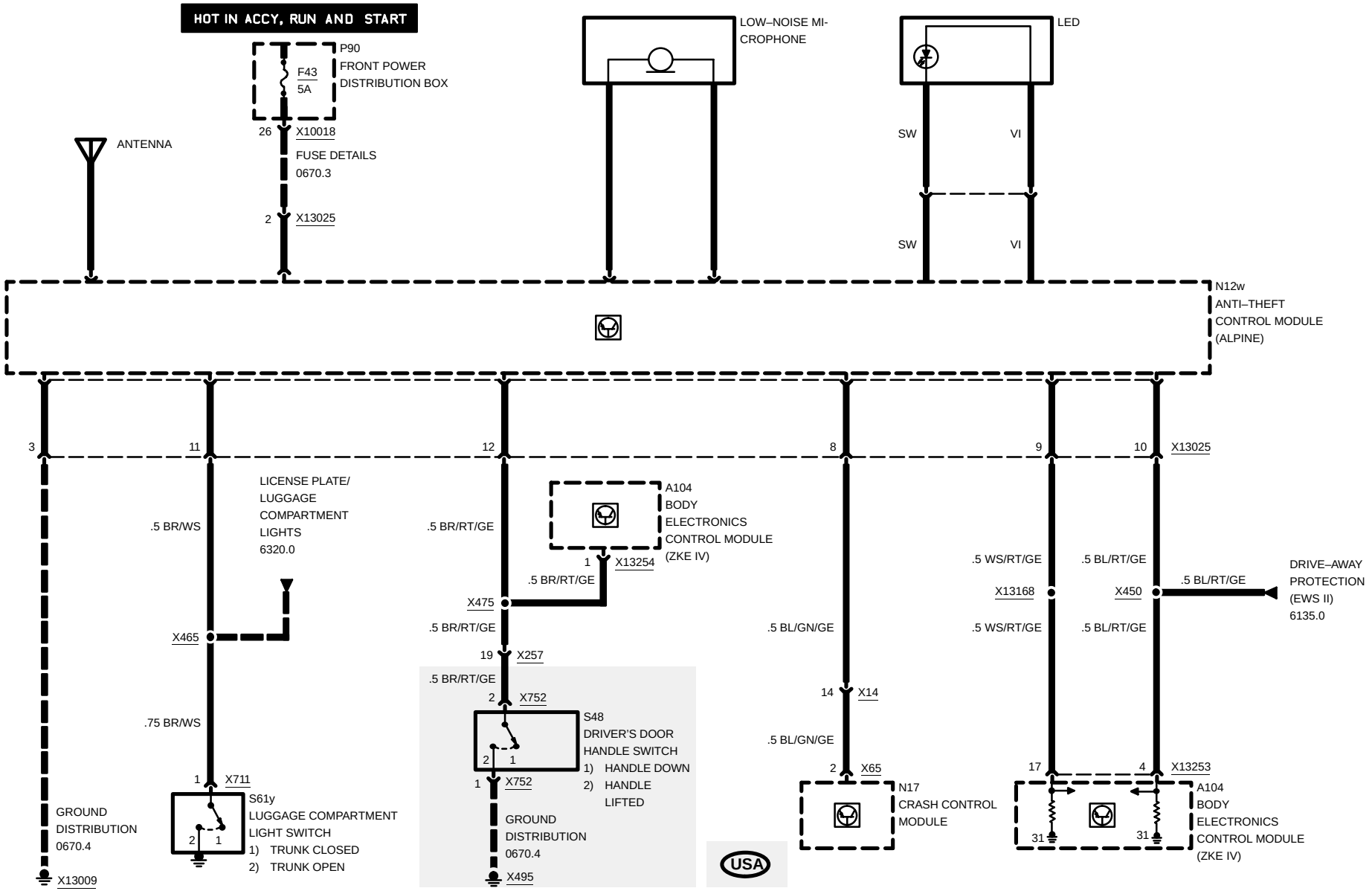


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

CRUISE CONTROL (TEMPOMAT)

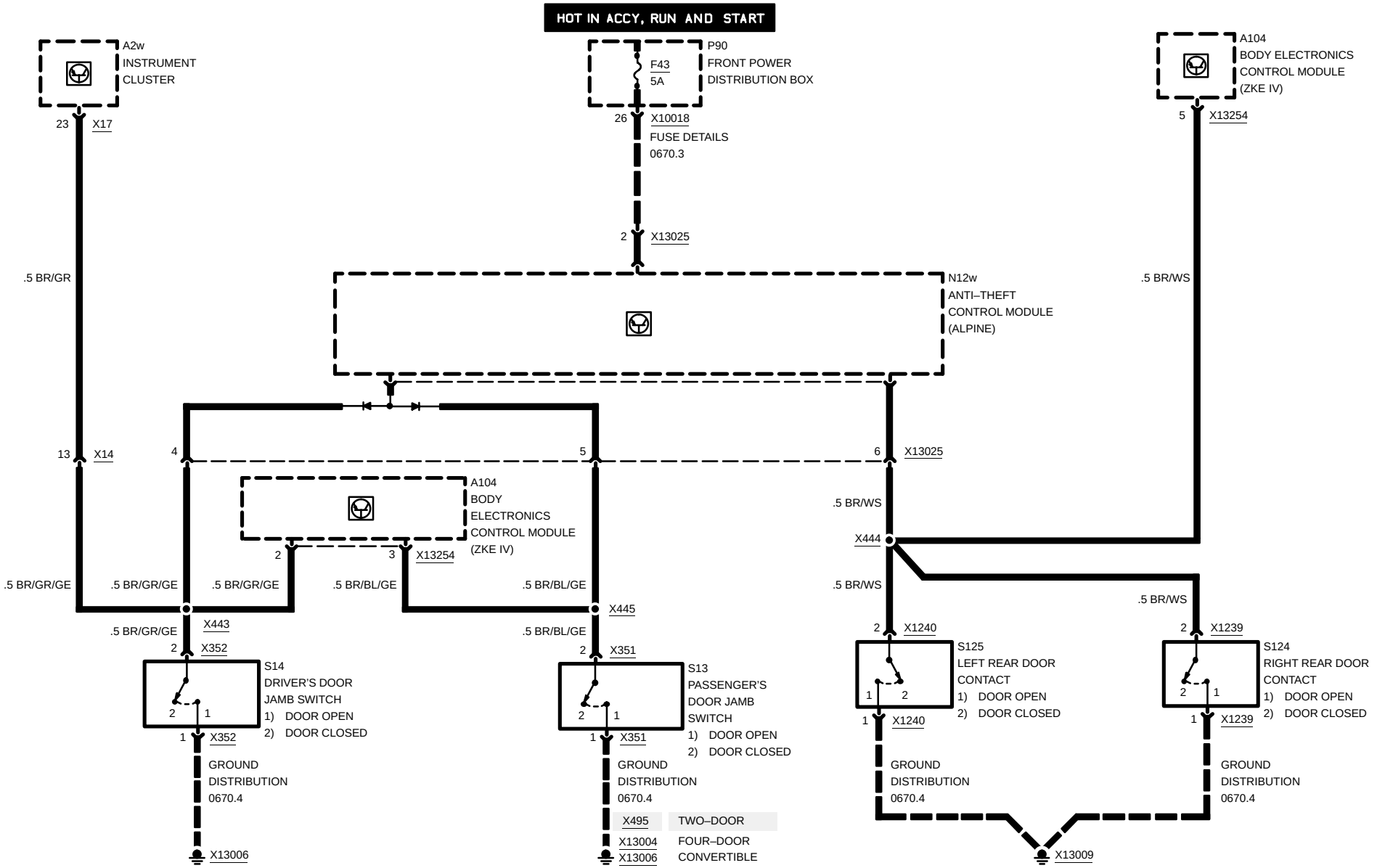


6575.2 ANTI–THEFT SYSTEM (ALPINE)

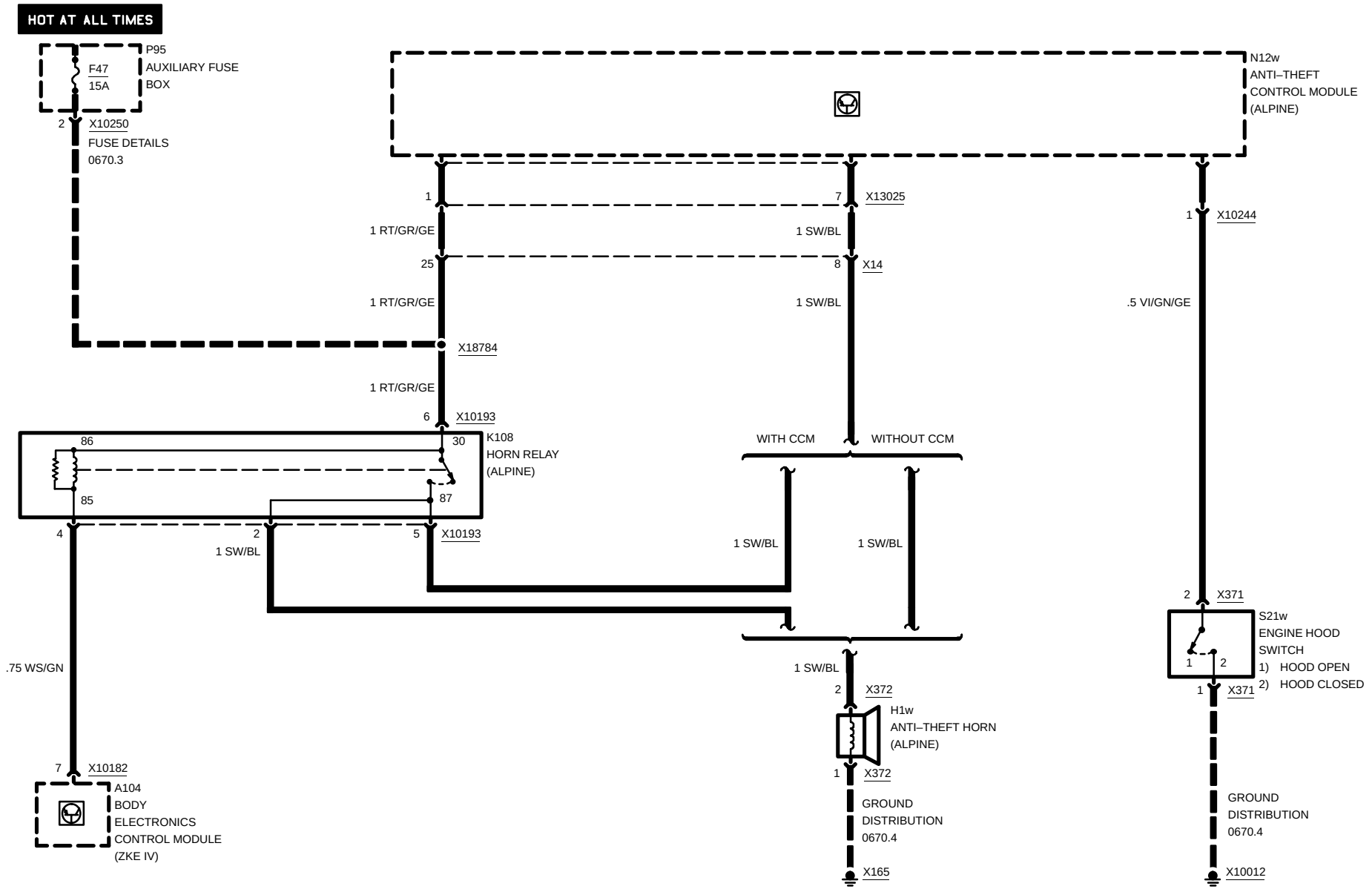


ANTI–THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

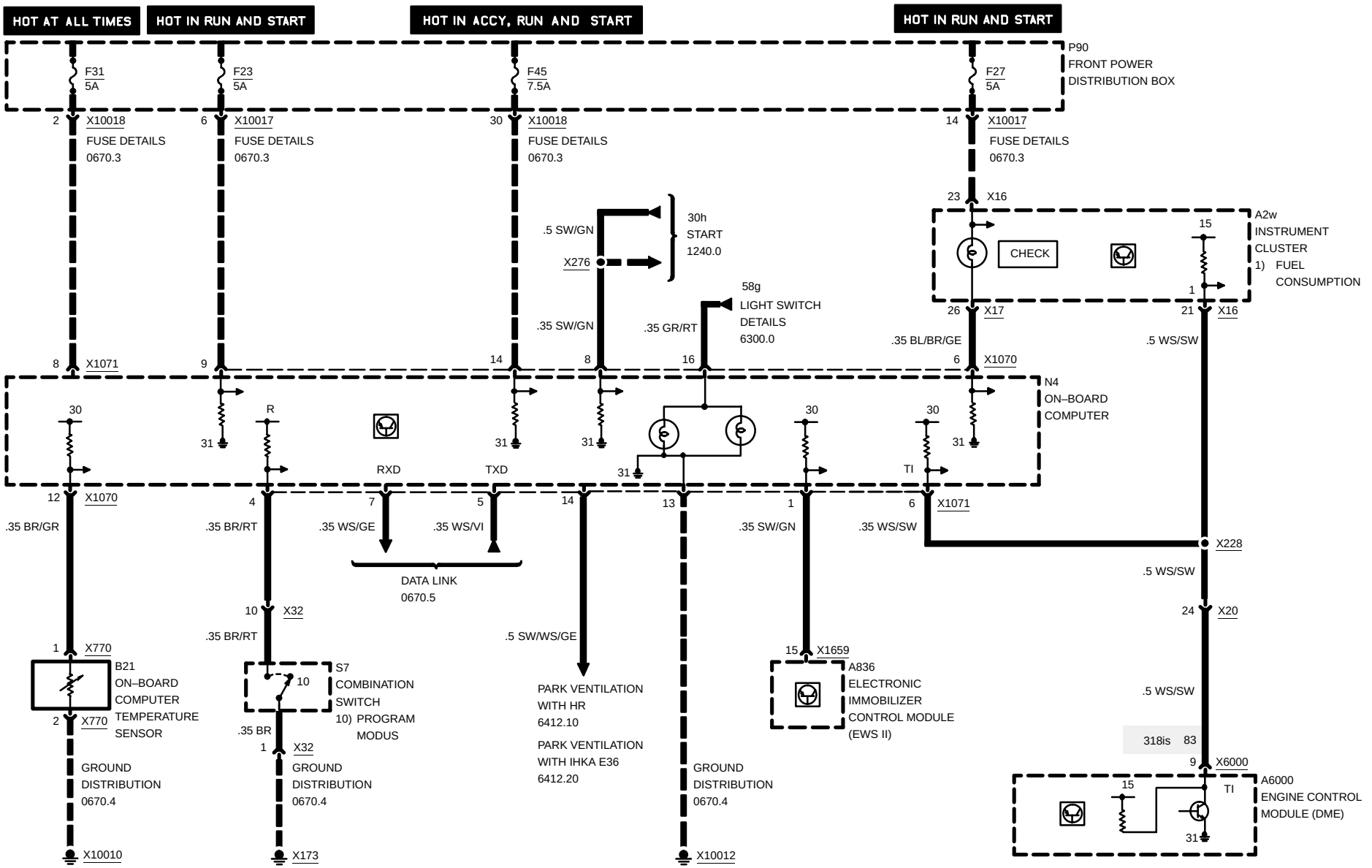


ANTI–THEFT SYSTEM (ALPINE)



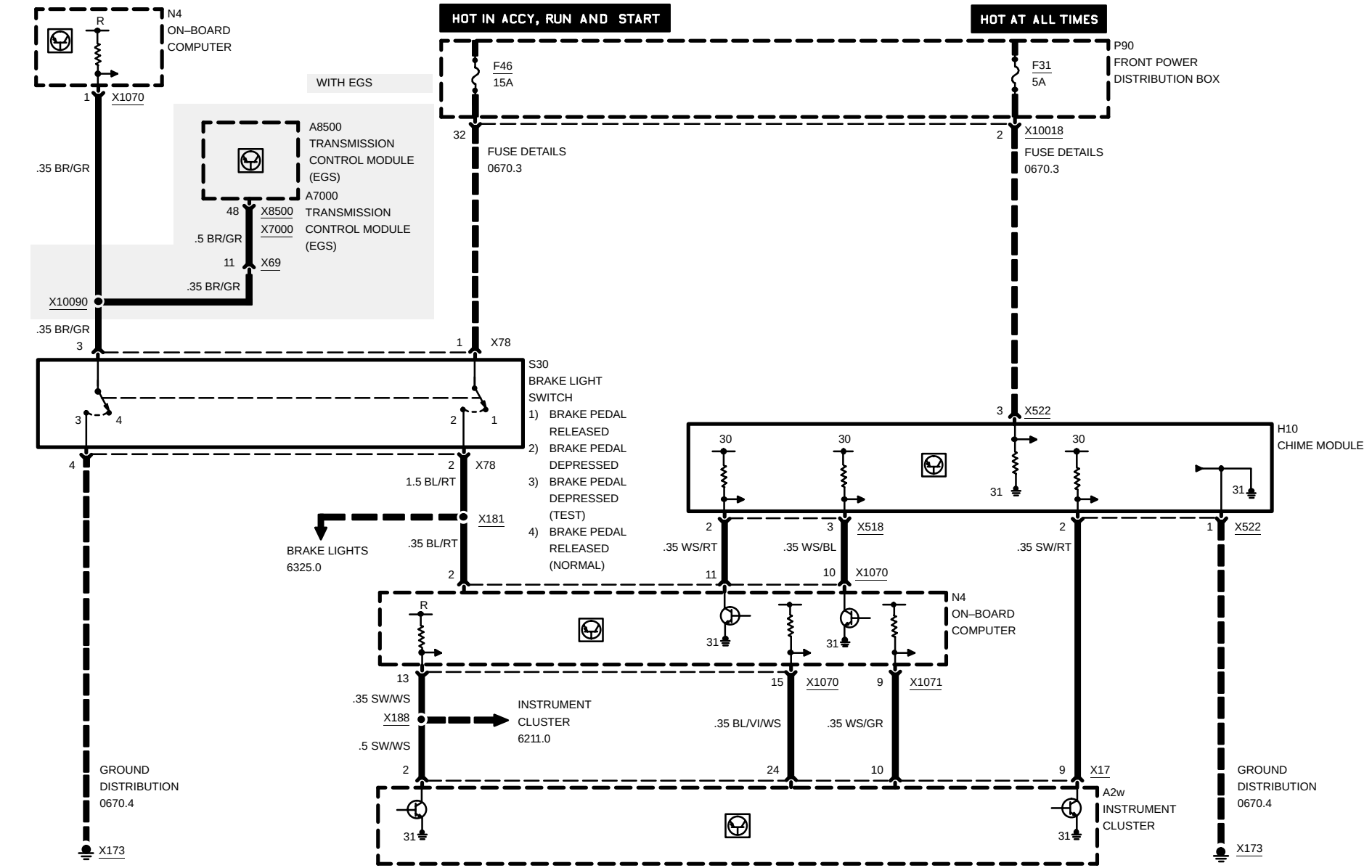
6581.2 ON–BOARD COMPUTER (BC V)

POWER



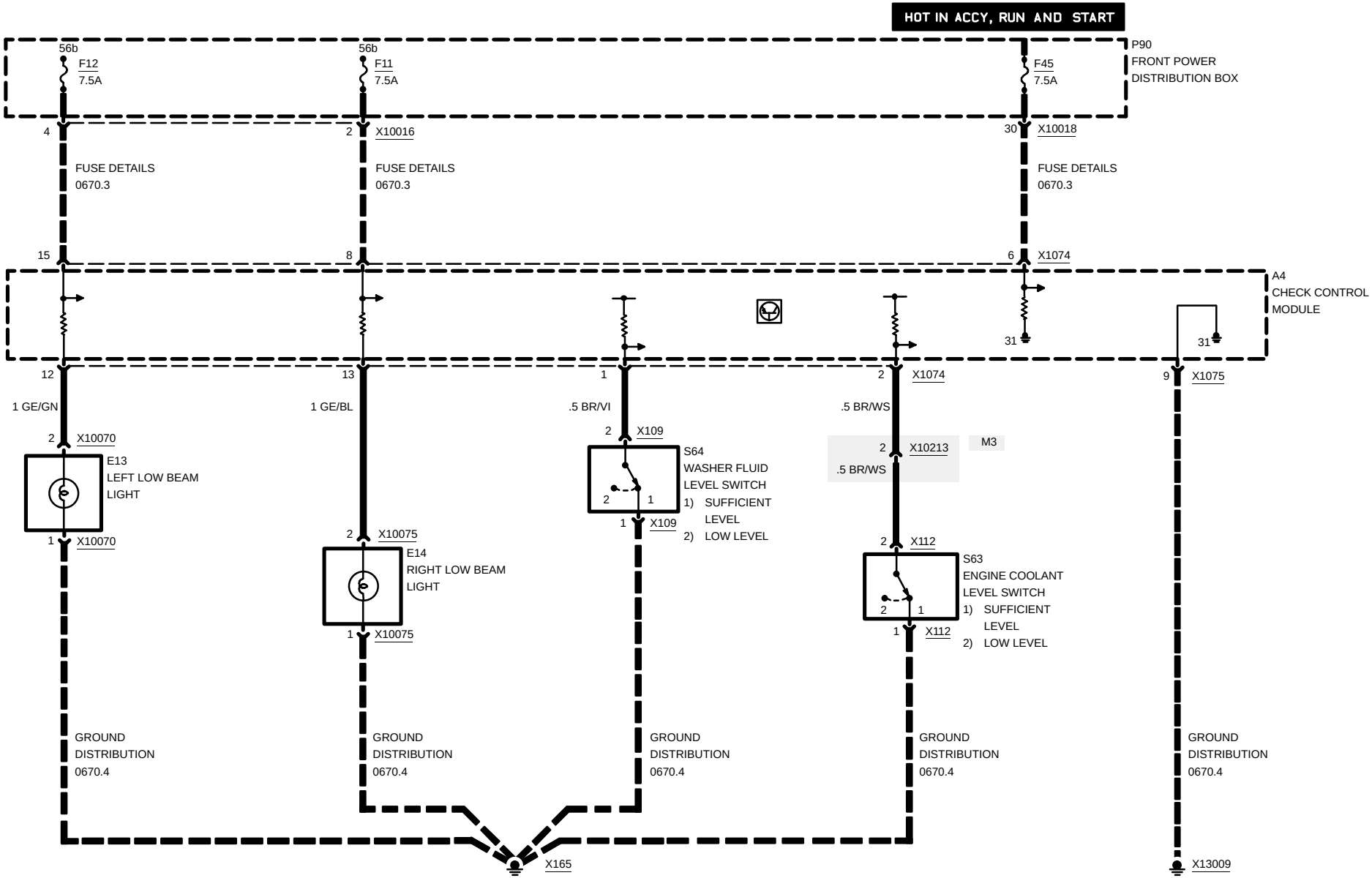
ON–BOARD COMPUTER (BC V)

CHIME, BRAKE LIGHT SWITCH



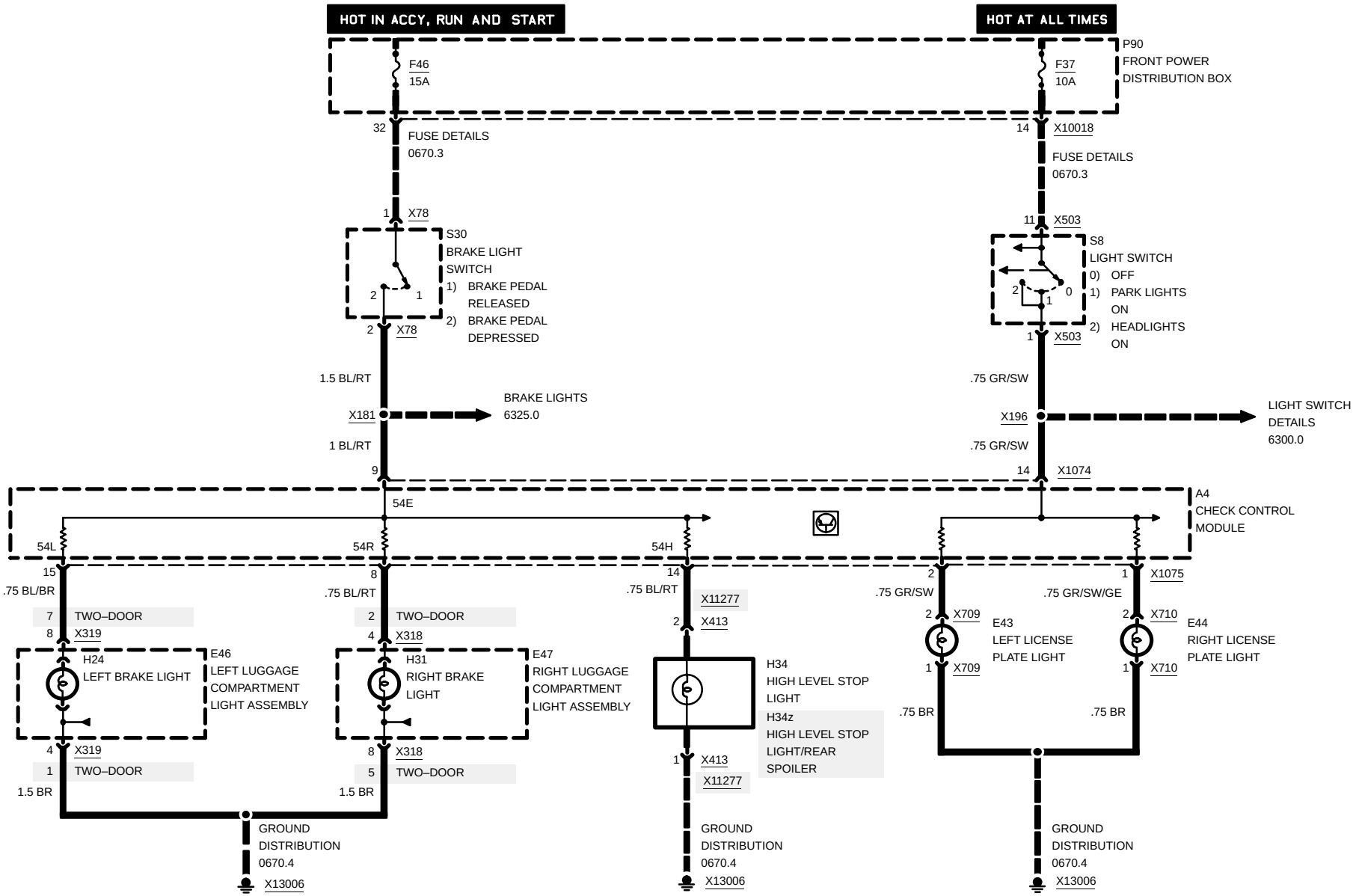
ON–BOARD COMPUTER (BC V)

CHECK CONTROL



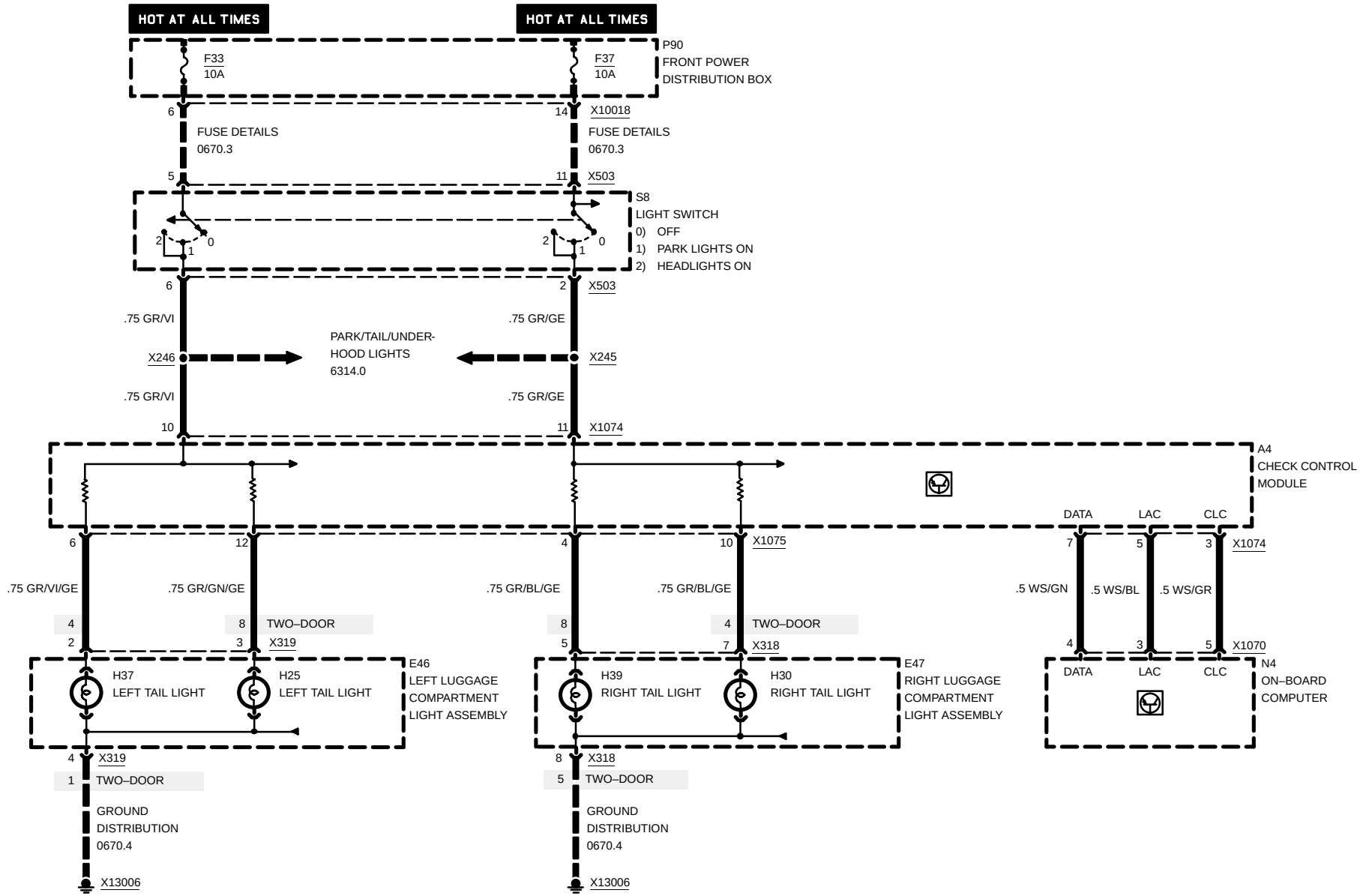
ON–BOARD COMPUTER (BC V)

CHECK CONTROL



ON–BOARD COMPUTER (BC V)

CHECK CONTROL



7000.0 COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A2w	INSTRUMENT CLUSTER	LH side of dash	28-3	
A4	CHECK CONTROL MODULE	below LH side of dash	00-3	
A5	RELAY MODULE	behind glove box		
A8	CRUISE CONTROL MODULE (TEMPOMAT)	RH side of dash behind glove box	01-2	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	below rear seat	00-2	
A18	HIFI AMPLIFIER	below RH side of rear seat (Convertible)	02-3	
A18	HIFI AMPLIFIER	in LH side of luggage compartment	04-1	
A35	ON–BOARD DISPLAY	center of dash center console		
A51	WIPER/WASHER MODULE	behind glove box (glove box removed)	01-1	
A52	SLIP CONTROL MODULE (ABS/ASC)	behind glove box (glove box removed)	01-3	
A56	TILT/SLIDE SUNROOF CONTROL ASSEMBLY	under roof center panel	04-2	
A64	WIPER/WASHER MODULE (LOW II)	behind glove box (glove box removed)	01-1	
A96	CONVERTIBLE TOP CONTROL MODULE	in lower LH C–pillar behind side panel	02-1	
A104	BODY ELECTRONICS CONTROL MODULE (ZKE IV)	behind glove box (glove box removed)	01-1	
A113	SEAT OCCUPANCY DETECTOR	under RH front seat		
A115	AUTOMATIC CLIMATE CONTROL MODULE	behind center console	03-2	
A202	ABS CONTROL MODULE/HYDRAULIC UNIT	rear LH side of engine compartment		
A835	TRANSMITTER MODULE (EWS II)	RH side of steering column	04-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
A836	ELECTRONIC IMMOBILIZER CONTROL MODULE (EWS II)	RH side of dash behind glove box	38-3	
A6000	ENGINE CONTROL MODULE (DME)	rear RH side of engine compartment	00-1	
A7000	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
A8500	TRANSMISSION CONTROL MODULE (EGS)	rear RH side of engine compartment	00-1	
B1	RIGHT FRONT SPEED SENSOR – ABS	on RH front wheel, above brake caliper	08-3	
B2	LEFT FRONT SPEED SENSOR – ABS	on LH front wheel, above brake caliper	08-3	
B3	RIGHT REAR SPEED SENSOR – ABS	on RH rear wheel, above brake caliper		
B4	LEFT REAR SPEED SENSOR – ABS	on LH rear wheel, above brake caliper		
B6	FUEL LEVEL SENSOR	below LH side of rear seat	21-2	
B10	VEHICLE SPEED SENSOR	under rear of car on differential	08-1	
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	center console		
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	center console		
B13	OUTSIDE TEMPERATURE SENSOR	rear of engine compartment behind RH fresh air cowl	15-2	
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell LH side of IHKA Plenum	28-1	
B16	LEFT FRONT BRAKE PAD SENSOR	on LH front wheel, above brake caliper	08-3	
B17	RIGHT REAR BRAKE PAD SENSOR	behind RH rear wheel		
B18	BRAKE FLUID LEVEL SWITCH	rear LH side of engine compartment top of brake fluid reservoir	18-3	
B21	ON–BOARD COMPUTER TEMPERATURE SENSOR	front RH side of engine compartment	20-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B25y	FUEL TANK SENSOR II	top of fuel tank		
B72	FUEL TANK PRESSURE SENSOR	RH rear wheel well behind trim panel	14-1	
B78	DRIVER'S SIDE IMPACT SENSOR	in lower LH B–pillar	39-2	
B79	PASSENGER'S SIDE IMPACT SENSOR	in lower RH B–pillar		
B6203	CRANKSHAFT POSITION/RPM SENSOR	front of engine below	10-3	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	front of engine below intake manifold	11-1	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	front of engine below intake manifold	12-2	
B6205	INTAKE AIR TEMPERATURE SENSOR	front LH side of engine compartment (318is)	18-2	
B6205	INTAKE AIR TEMPERATURE SENSOR	LH side of engine near oil level stick	36-3	
B6207	HOT FILM AIR MASS METER	LH side of engine	12-1	
B6209	HALL EFFECT CAMSHAFT SENSOR	front of engine (318is)		
B6217	HOT FILM AIR MASS METER	top front of engine	18-2	
B6231	OIL PRESSURE SWITCH	front of engine below intake manifold	11-1	
B6231	OIL PRESSURE SWITCH	front of engine below intake manifold (318is)	17-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	front of engine below intake manifold	11-3	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	front of engine below intake manifold (318is)	17-2	
B6233	AIR FLOW SENSOR	LH side of engine compartment right of LH side shock tower		
B6236	ENGINE COOLANT TEMPERATURE SENSOR	front of engine	11-3	
B6238	OIL TEMPERATURE SENSOR	LH side of engine		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
B6240	KNOCK SENSOR	top front of engine	11-2	
B6256	DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)	RH front of engine below intake manifold	11-1	
B9508	PRESSURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	
B62001	OXYGEN SENSOR (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	37-1	
B62002	OXYGEN SENSOR (BEHIND CATALYTIC CONVERTER)	on catalytic converter (318is)	37-2	
B62101	OXYGEN SENSOR I (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	38-2	
B62102	OXYGEN SENSOR I (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
B62201	OXYGEN SENSOR II (IN FRONT OF CATALYTIC CONVERTER)	on catalytic converter	38-2	
B62202	OXYGEN SENSOR II (BEHIND CATALYTIC CONVERTER)	on catalytic converter		
C101 .	CONTACT RING	top of steering column	24-2	
C900 .	SUPPRESSION FILTER	in upper RH C–pillar	33-2	
D100 .	DATA LINK CONNECTOR	rear RH side of engine compartment	05-1	
E10 ..	REAR DEFOGGER/ANTENNA	in rear window		
E11 ...	LEFT HIGH BEAM LIGHT	near LH headlight assembly		
E12 ..	RIGHT HIGH BEAM LIGHT	near RH headlight assembly		
E13 ..	LEFT LOW BEAM LIGHT	near LH headlight assembly		
E14 ..	RIGHT LOW BEAM LIGHT	near RH headlight assembly		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E15	LEFT PARK LIGHT	front of vehicle		
E19	RIGHT PARK LIGHT	front of vehicle		
E25	FRONT ASHTRAY LIGHT	center console	31-2	
E26	LEFT FOG LIGHT	under LH front bumper	08-2	
E27	RIGHT FOG LIGHT	under RH front bumper	08-2	
E28	FRONT CIGAR LIGHTER	near gearshift lever		
E28y	REAR ASHTRAY LIGHT	below center console	31-2	
E29	FRONT CIGAR LIGHTER LIGHT	center console		
E32	LUGGAGE COMPARTMENT LIGHT	in luggage compartment		
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	under roof center panel	04-2	
E35	DRIVER'S MAKE–UP MIRROR LIGHT	above LH sun visor	38-1	
E36	PASSENGER'S MAKE–UP MIRROR LIGHT	above RH sun visor	23-1	
E39	LEFT REAR INTERIOR LIGHT	in upper LH C–pillar	33-1	
E40	RIGHT REAR INTERIOR LIGHT	in upper RH C–pillar	33-2	
E42	GLOVE BOX LIGHT	LH side of glove box	25-1	
E43	LEFT LICENSE PLATE LIGHT	underside of luggage compartment lid, near license plate	09-1	
E44	RIGHT LICENSE PLATE LIGHT	underside of luggage compartment lid, near license plate	09-1	
E45y	CASSETTE BOX LIGHT	center of dash		
E46	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY	in LH rear side of luggage compartment		
E47	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY	in RH rear side of luggage compartment	03-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
E48	DOOR LOCK HEATER	LH front door		
E51	LEFT WASHER JET HEATER	on underside of engine hood		
E52	RIGHT WASHER JET HEATER	on underside of engine hood		
E56	DRIVER'S SEATBACK HEATER	in upper LH front seatback	23-3	
E57	DRIVER'S SEAT HEATER	under LH front seat	23-3	
E58	PASSENGER'S SEAT HEATER	underside of RH front seat		
E59	PASSENGER'S SEATBACK HEATER	in upper RH front seatback		
E82	TRANSMISSION POSITION INDICATOR LIGHT	center console		
E96	GEAR SHIFT LEVER INDICATOR	center console		
E99	HARD TOP CONNECTOR 1	in convertible top compartment		
E100y	HARD TOP CONNECTOR 2	in convertible top compartment		
E101	LEFT LUGGAGE COMPARTMENT LIGHT	in LH rear side of luggage compartment (Convertible)		
E102	RIGHT LUGGAGE COMPARTMENT LIGHT	in RH rear side of luggage compartment (Convertible)		
F97	FUSIBLE LINK	in RH side of luggage compartment		
G1	BATTERY	in RH rear side of luggage compartment		
G1	BATTERY	rear RH side of engine compartment (318is)		
G5	DRIVER'S AIR BAG GAS GENERATOR	behind steering wheel	24-2	
G6	PASSENGER'S AIR BAG GAS GENERATOR	RH side of dash	27-2	
G12	DRIVER'S SIDE PYROTECHNICAL BELT TENSIONER	driver's seat right		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
G13	PASSENGER'S SIDE PYROTECHNICAL BELT TENSIONER	passenger's seat left		
G14	LEFT SIDE AIR BAG GAS GENERATOR	in driver's door	39-3	
G15	RIGHT SIDE AIR BAG GAS GENERATOR	in passenger's door		
G6430	B+ JUMP START JUNCTION POINT	rear RH side of engine compartment back of RH side shock tower	05-1	
G6509	GENERATOR	front LH side of engine compartment	05-2	
H2	LEFT HORN	front of engine compartment		
H3	RIGHT HORN	front of engine compartment		
H4	RIGHT FRONT TURN LIGHT	front of vehicle		
H5	RIGHT REAR TURN LIGHT	RH side of body rear end		
H6	LEFT REAR TURN LIGHT	LH side of body rear end		
H7	LEFT FRONT TURN LIGHT	front of vehicle		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H9	LEFT FRONT AUXILIARY TURN LIGHT	front of vehicle		
H10	CHIME MODULE	below LH side of dash		
H1w	ANTI–THEFT HORN (ALPINE)	front RH side of engine compartment		
H24	LEFT BRAKE LIGHT	LH side of body rear end		
H25	LEFT TAIL LIGHT	LH side of body rear end		
H26	LEFT REAR FOG LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H27	LEFT BACK UP LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H28	RIGHT BACK UP LIGHT	LEFT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H30	RIGHT TAIL LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
H31	RIGHT BRAKE LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H34	HIGH LEVEL STOP LIGHT	at back of rear window shelf		
H34z	HIGH LEVEL STOP LIGHT/REAR SPOILER	in rear spoiler		
H37	LEFT TAIL LIGHT	RIGHT LUGGAGE COMPARTMENT LIGHT ASSEMBLY		
H42	LEFT MID–HIGH RANGE SPEAKER	in upper LH front door		
H43	RIGHT MID–HIGH RANGE SPEAKER	in upper RH front door		
H45	RIGHT REAR SPEAKER	under rear window shelf		
H46	LEFT REAR SPEAKER	under rear window shelf		
H50	RIGHT FRONT HIGH RANGE SPEAKER	in upper RH front door		
H51	RIGHT FRONT LOW RANGE SPEAKER	in lower RH A–pillar		
H52	RIGHT REAR LOW RANGE SPEAKER	under rear window shelf		
H53	RIGHT REAR HIGH RANGE SPEAKER	under rear window shelf		
H54	RIGHT FRONT MIDRANGE SPEAKER	in upper RH front door		
H55	LEFT FRONT MIDRANGE SPEAKER	in upper LH front door		
H56	LEFT REAR HIGH RANGE SPEAKER	under rear window shelf		
H57	LEFT REAR LOW RANGE SPEAKER	under rear window shelf		
H58	LEFT FRONT LOW RANGE SPEAKER	in lower LH A–pillar		
H59	LEFT FRONT HIGH RANGE SPEAKER	in upper LH front door		
H66	SUBWOOFER	behind trim panel		
I1008	SEAT MAT	in passenger’s seat		
K2	HORN RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K4	BLOWER RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
K9	UNLOADER RELAY, TERMINAL 15	behind LH footwell trim	25-3	
K10	ABS RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K13	REAR DEFOGGER RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K16	HAZARD FLASHER RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K19	COMPRESSOR CONTROL RELAY	rear LH side of engine compartment in Power Distribution Box	19-1	
K21	NORMAL SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K22	HIGH SPEED RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K46	HIGH BEAM LIGHT RELAY	LH side of dash behind instrument cluster	02-2	
K46z	DAY LIGHT RELAY MODULE	below LH side of dash		
K47	FRONT FOG LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K48	LOW BEAM LIGHT RELAY	rear LH side of engine compartment in Power Distribution Box	19-2	
K99	REAR WINDOW BLOWER RELAY	behind glove box left	25-2	
K108	HORN RELAY (ALPINE)	behind glove box left	01-2	
K117	LUGGAGE COMPARTMENT LID RELAY	behind glove box right		
K125	ABS PUMP MOTOR RELAY, TIMED	rear LH side of engine compartment in Power Distribution Box (318is)	19-3	
K128	SPATIAL SOUND RELAY	footwell, driver's side behind trim panel		
K450	PARK VENTILATION RELAY	below LH side of dash	02-2	
K6300	ENGINE CONTROL MODULE RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K6301	CYL. 1–6 FUEL PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K6301w	FUEL PUMP RELAY	rear LH side of engine compartment in Front Power Distribution Box	19-1	
K6304	SECONDARY AIR PUMP RELAY	rear LH side of engine compartment in Power Distribution Box	19-3	
K6326	UNLOADER RELAY, TERMINAL 15	rear RH side of engine compartment	39-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M2	FUEL PUMP	below RH side of rear seat	20-2	
M3	WIPER MOTOR	rear of engine compartment below center of cowl	16-1	
M4	WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	10-1	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	front RH side of engine compartment on washer fluid reservoir	10-2	
M9	AUXILIARY FAN MOTOR	behind front grille behind trim panel	18-1	
M12	DRIVER'S DOOR LOCK MOTOR	in upper LH front door behind trim panel		
M13	PASSENGER'S DOOR LOCK MOTOR	in upper RH front door behind trim panel		
M14	RIGHT REAR DOOR LOCK MOTOR	in upper RH rear door behind trim panel		
M15	LEFT REAR DOOR LOCK MOTOR	in upper LH rear door behind trim panel		
M16	GAS FILLER LOCK MOTOR	in RH rear side of luggage compartment	03-3	
M17	LUGGAGE COMPARTMENT LOCK MOTOR	rear side of luggage compartment in lift gate	34-2	
M20	LEFT REAR WINDOW MOTOR	in lower LH rear door behind trim panel		
M21	DRIVER'S WINDOW MOTOR	LH front door behind door panel	31-3	
M22	RIGHT REAR WINDOW MOTOR	in lower RH rear door behind door panel		
M23	PASSENGER'S WINDOW MOTOR	RH front door behind door panel	32-1	
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	front LH side of engine compartment	18-2	
M30	BLOWER MOTOR	rear of engine compartment behind RH fresh air cowl	15-2	
M35	DEFROSTER FLAP MOTOR	RH side of IHKA Plenum	29-2	
M36	FRESH AIR FLAP MOTOR	below LH side of dash RH side of IHKA Plenum	29-3	
M40	RECIRCULATION FLAP MOTOR	below LH side of dash RH side of IHKA Plenum	29-2	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M43	CONVERTIBLE TOP STORAGE LID LOCK MOTOR	in convertible top compartment left	22-1	
M44	REGULATION FLAP MOTOR	RH side of IHKA Plenum		
M46	REAR RECIRCULATION FLAP MOTOR	RH side of IHKA Plenum		
M50	DRIVER'S SEAT CUSHION TILT MOTOR	under LH front seat	23-3	
M51	DRIVER'S SEAT MOVEMENT MOTOR	under LH front seat	23-3	
M52	DRIVER'S SEAT HEIGHT MOTOR	under LH front seat	23-3	
M53	DRIVER'S SEATBACK RECLINER MOTOR	under LH front seat	23-3	
M58	PASSENGER'S SEATBACK RECLINER MOTOR	under RH front seat		
M59	PASSENGER'S SEAT HEIGHT MOTOR	under RH front seat		
M60	PASSENGER'S SEAT MOVEMENT MOTOR	under RH front seat		
M61	PASSENGER'S SEAT CUSHION TILT MOTOR	under RH front seat		
M93	AUXILIARY THROTTLE POSITION MOTOR (ADS)	front of engine compartment		
M98	LEFT REAR WINDOW MOTOR	left from LH rear seat behind trim panel	22-2	
M99	RIGHT REAR WINDOW MOTOR	RH side of RH rear seat behind trim panel	22-2	
M100	CONVERTIBLE TOP STORAGE LID MOTOR	in LH side of luggage compartment	34-1	
M101	CONVERTIBLE TOP MOTOR	in LH side of luggage compartment	34-3	
M105	REAR WINDOW BLOWER	behind rear seats	21-3	
M107	GLOVE BOX LOCK MOTOR	RH side of dash behind glove box		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
M132	WINDSCREEN COWL PANEL LOCK MOTOR	front cover	35-1	
M6510	STARTER	rear LH side of engine compartment		
N2	FINAL STAGE UNIT	behind LH side of dash		
N3	DIMMER	LH side of dash	26-1	
N4	ON–BOARD COMPUTER	center console	03-1	
N5	ANALOG CLOCK	center console		
N8	ANTENNA AMPLIFIER AM/FM	in upper LH C–pillar	33-1	
N10	MULTI–FUNCTION CLOCK	center console		
N12w	ANTI–THEFT CONTROL MODULE (ALPINE)	behind glove box (glove box removed)	01-3	
N17	CRASH CONTROL MODULE	LH side of dash behind instrument cluster	02-2	
N22	CD CHANGER	in LH forward side of luggage compartment		
N24	ROLLOVER SENSOR	in lower LH C–pillar behind side panel	02-3	
P90	FRONT POWER DISTRIBUTION BOX	rear LH side of engine compartment	05-3	
P95	AUXILIARY FUSE BOX	footwell, driver's side		
P96	AUXILIARY FUSE BOX IN LUGGAGE COMPARTMENT	in RH side of luggage compartment behind trim panel		
P97	AUXILIARY FUSE BOX	LH side of dash behind instrument cluster	02-2	
R11	BLOWER RESISTORS	behind center of dashboard left	29-1	
R6252	THROTTLE POSITION SENSOR	LH side of engine near oil level stick	13-3	
R6252	THROTTLE POSITION SENSOR	LH side of engine compartment (318is)	17-3	
R8554	RESISTOR	front of engine compartment		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S2	IGNITION SWITCH	RH side of steering column	24-3	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	center console	30-3	
S4	HORN SWITCH	top of steering column	24-2	
S5	WIPER/WASHER SWITCH	LH side of dash RH side of steering column above		
S6	ASC SWITCH	center console	30-2	
S7	COMBINATION SWITCH	on steering column	24-3	
S8	LIGHT SWITCH	LH side of dash	26-1	
S10	FOG LIGHT SWITCH	LH side of dash		
S13	PASSENGER'S DOOR JAMB SWITCH	in upper RH B–pillar	33-3	
S14	DRIVER'S DOOR JAMB SWITCH	in upper LH B–pillar	33-3	
S15	REAR RIGHT DOOR JAMB SWITCH	in lower RH C–pillar	33-3	
S16	LEFT REAR DOOR JAMB SWITCH	in lower LH C–pillar	33-3	
S17	MIRROR CONTROL SWITCH	in upper LH front door		
S18	HAZARD SWITCH	center console near gearshift lever	30-3	
S21w	ENGINE HOOD SWITCH	front RH side of engine compartment	10-2	
S28	CRUISE CONTROL SWITCH	on steering column	24-3	
S29	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-3	
S30	BRAKE LIGHT SWITCH	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	
S31	PARK BRAKE SWITCH	center console on rear of park brake lever	31-2	
S32	CLUTCH SWITCH	LH footwell on clutch pedal support bracket behind LH footwell trim	26-3	
S36	TEMPERATURE SWITCH	front RH side of engine compartment near RH headlight assembly	09-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S36y	DOUBLE TEMPERATURE SWITCH	RH top of radiator	09-3	
S38	TILT/SLIDE SUNROOF SWITCH (SHD)	roof		
S40y	CENTRAL POWER WINDOW SWITCH	center console		
S41y	LH REAR DOOR POWER WINDOW SWITCH (DOOR)	in lower LH rear door behind trim panel		
S42y	RH REAR DOOR POWER WINDOW SWITCH (DOOR)	in lower RH rear door behind trim panel		
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	center console near gearshift lever	30-2	
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	center console near gearshift lever	30-1	
S58	DRIVER'S SEAT BELT SWITCH	in LH front seat belt buckle		
S59	PASSENGER'S SEAT BELT SWITCH	in RH front seat belt buckle		
S61y	LUGGAGE COMPARTMENT LIGHT SWITCH	underside of luggage compartment lid left	34-2	
S63	ENGINE COOLANT LEVEL SWITCH	front RH side of engine compartment	18-1	
S64	WASHER FLUID LEVEL SWITCH	front RH side of engine compartment on washer fluid reservoir	10-1	
S75	BLOWER SWITCH	center of dash		
S77	DRIVER'S MAKE–UP MIRROR SWITCH	above LH sun visor	38-1	
S78	PASSENGER'S MAKE–UP MIRROR SWITCH	above RH sun visor	23-1	
S123	ABS PEDAL TRAVEL SENSOR	near brake master cylinder	18-3	
S124	RIGHT REAR DOOR CONTACT	rear RH door pillar	33-3	
S125	LEFT REAR DOOR CONTACT	LH rear door jamb	33-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S130 .	CHILD PROTECTION CONTROL (CONSOLE)	center console		
S143 .	CONVERTIBLE TOP ACTUATING SWITCH	center console		
S164 .	CONVERTIBLE TOP END–POSITION MICRO SWITCH	at convertible top linkage		
S165 .	CONVERTIBLE TOP POSITION MICRO SWITCH	at convertible top linkage		
S196 .	REAR WINDOW BLOWER MICRO SWITCH	in convertible top compartment, left	35-2	
S198	JET HEATER THERMOSWITCH	front LH side of engine compartment	37-3	
S213 .	LUGGAGE COMPARTMENT LID MICRO SWITCH	underside of luggage compartment lid		
S214 .	CONVERTIBLE TOP STORAGE LID MICRO SWITCH	at convertible top linkage		
S126y	DRIVER'S POWER WINDOW SWITCH	center console near gearshift lever	31-1	
S127y	PASSENGER'S POWER WINDOW SWITCH	center console near gearshift lever	31-1	
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	center console		
S128z	LH REAR POWER WINDOW SWITCH	center console		
S129y	RH REAR DOOR (CONSOLE) POWER WINDOW SWITCH	center console		
S129z	RH REAR POWER WINDOW SWITCH	center console		
S231 .	WINDSCREEN COWL PANEL LOCK MICRO SWITCH	front cover	35-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
S303y	TOP HIFI SWITCH	center console		
S8503	PROGRAM SWITCH	center console		
S8507	KICK–DOWN SWITCH	LH footwell		
S8511	REVERSING LIGHT SWITCH	under front of car LH side of transmission		
T6151	CYL. 1 IGNITION COIL	top RH side of engine	13-1	
T6151	CYL. 1 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6152	CYL. 2 IGNITION COIL	top RH side of engine	13-1	
T6152	CYL. 2 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6153	CYL. 3 IGNITION COIL	top RH side of engine	13-1	
T6153	CYL. 3 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6154	CYL. 4 IGNITION COIL	top RH side of engine	13-1	
T6154	CYL. 4 IGNITION COIL	RH side of engine compartment (318is)	17-3	
T6155	CYL. 5 IGNITION COIL	top RH side of engine	13-1	
T6156	CYL. 6 IGNITION COIL	top RH side of engine	13-1	
V6	UNCOUPLING DIODE	rear LH side of engine compartment in Power Distribution Box		
V7	ASC DIODE	top LH side of engine compartment in Front Power Distribution Box		
X0	B+ JUNCTION POINT	rear LH side of engine compartment	05-3	
X2	BATTERY B+ START POINT	rear LH side of engine compartment	05-3	
X9	B+ JUNCTION POINT	rear LH side of engine compartment	05-3	
X13	(30 PINS, BLACK)	behind LH footwell kickpanel	16-3	00-4
X14	(30 PINS, NATURAL)	behind LH footwell kickpanel	16-3	00-4
X16	(26 PINS, NATURAL)	LH side of dash rear side of instrument cluster, A2w	28-3	00-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X17	(26 PINS, BLUE)	LH side of dash rear side of instrument cluster, A2w	28-3	00-2
X20	(25 PINS, BLACK)	rear LH side of engine compartment	18-3	05-2
X22	(26 PINS, GRAY)	RH side of dash behind glove box	01-2	00-2
X32	(12 PINS, NATURAL)	LH footwell underside of steering column	27-3	04-5
X33	(12 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	04-5
X35	(12 PINS, NATURAL)	below LH side of dash RH side of steering column	27-3	04-5
X35	(12 PINS, NATURAL)	below LH side of dash RH side of steering column	28-1	04-5
X44	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X45	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X51	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X52	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X53	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X54	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X56	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X58	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X63	(9 PINS, BLACK)	behind LH footwell speaker grille		03-6
X64	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X65	(9 PINS, BLACK)	below LH side of dash		03-6
X69	(25 PINS, GRAY)	rear LH side of engine compartment	18-3	05-2
X70	(8 PINS, BLACK)	front LH side of engine compartment	18-2	02-2
X72	(6 PINS, NATURAL)	footwell, driver's side	27-3	06-2
X74	(50 PINS, YELLOW)	below rear seat	00-2	02-5

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X78	(4 PINS, BLACK)	LH footwell on brake pedal support bracket behind LH footwell trim	26-2	03-3
X82	(3 PINS, BLACK)	front of engine compartment on auxiliary fan	18-1	08-1
X85	(3 PINS, BLACK)	rear LH side of engine compartment	16-2	06-3
X87	(3 PINS, BLACK)	front RH side of engine compartment RH top of radiator	09-3	06-3
X105	(2 PINS, BLACK)	on underside of engine hood		
X106	(2 PINS, BLACK)	on underside of engine hood		
X107	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	
X109	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	
X111	(2 PINS, BLACK)	rear LH side of engine compartment top of brake fluid reservoir	18-3	
X112	(2 PINS, BLACK)	front RH side of engine compartment	18-1	
X113	(3 PINS, GRAY)	wheel well right	09-2	09-2
X114	(3 PINS, GRAY)	wheel well left	09-2	09-2
X116	(2 PINS, BLACK)	LH footwell near brake pedal	26-3	
X118	(2 PINS, BLACK)	wheel well left	09-2	
X121	(2 PINS, WHITE)	LH footwell on clutch pedal	26-3	
X123	(2 PINS, GRAY)	front RH side of engine compartment on washer fluid reservoir	10-2	
X128	(2 PINS, BLACK)	front RH side of engine compartment		
X132	(2 PINS, BLACK)	front of engine compartment		
X133	(2 PINS, BLACK)	front of engine compartment		
X137	(2 PINS, BLACK)	front LH side of engine compartment		
X142	(2 PINS, GRAY)	under rear of car LH side of on differential		
X143	(2 PINS, GRAY)	under rear of car near differential on differential	08-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X163	(3 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-1	06-3
X165	GROUND	front LH side of engine compartment	06-3	
X168	(1 PIN, BLACK)	LH side of steering column		
X173	GROUND	below LH side of dash	07-1	
X209	(12 PINS, BLACK)	LH footwell underside of steering column		
X256	(26 PINS, BLACK)	ahead of RH front door in lower RH A–pillar	32-1	04-1
X257	(26 PINS, BLACK)	ahead of LH front door in lower LH A–pillar		04-1
X271	(12 PINS, BLACK)	LH side of dash rear side of instrument cluster, A2w	28-3	01-3
X272	(2 PINS, WHITE)	under roof center panel		
X273	(12 PINS, BLACK)	in lower LH B–pillar	21-1	01-2
X274	(12 PINS, BLACK)	in lower RH B–pillar	21-1	01-2
X275	(4 PINS, NATURAL)	under LH front seat	23-2	03-3
X279	(4 PINS, NATURAL)	under RH front seat	32-3	03-3
X285	(15 PINS, BLUE)	behind glove box	25-2	00-3
X292	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X295	(8 PINS, BLACK)	LH footwell underside of steering column behind LH footwell trim	27-3	03-5
X311	(3 PINS, BLACK)	underside of luggage compartment lid left	34-2	01-1
X312	(2 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	
X315	(2 PINS, BLACK)	underside of luggage compartment lid left	34-2	
X316	(4 PINS, YELLOW)	center console near gearshift lever	31-1	10-1
X317	(6 PINS, YELLOW)	center console near gearshift lever	30-3	07-1
X318	(8 PINS, BLACK)	in RH rear side of luggage compartment behind RH rear light assembly	03-3	01-4

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X319	(8 PINS, BLACK)	in LH rear side of luggage compartment behind LH rear light assembly		01-4
X320	(6 PINS, YELLOW)	center console near gearshift lever	30-3	07-1
X322	(6 PINS, BLACK)	LH footwell	28-2	06-2
X324	(4 PINS, YELLOW)	center console near gearshift lever	31-1	10-1
X333	(4 PINS, NATURAL)	rear of engine compartment below center of cowl	16-1	09-3
X336	(6 PINS, NATURAL)	under roof center panel	04-2	04-2
X351	(2 PINS, BLACK)	in upper RH B–pillar		
X352	(2 PINS, BLACK)	in lower LH C–pillar behind side panel	35-3	
X353	(1 PIN, NATURAL)	in lower RH C–pillar		
X354	(1 PIN, NATURAL)	in lower LH C–pillar		
X355	(2 PINS, BLACK)	in upper RH C–pillar	33-2	
X356	(2 PINS, BLACK)	in upper LH C–pillar	33-1	
X371	(2 PINS, BLACK)	front RH side of engine compartment on washer fluid reservoir	10-2	
X372	(2 PINS, GRAY)	rear RH side of engine compartment back of RH side shock tower		
X379	(1 PIN, BLACK)	in upper LH C–pillar	33-1	
X380	(1 PIN, BLACK)	in upper RH C–pillar	33-2	
X381	(3 PINS, BLACK)	above LH sun visor	38-1	01-1
X382	(3 PINS, BLACK)	above RH sun visor	23-1	01-1
X383	(2 PINS, BLACK)	under rear of car on differential	08-1	
X386	(2 PINS, BLACK)	REAR ASHTRAY LIGHT		
X389	(2 PINS, BLACK)	rear LH side of engine compartment		
X390	(2 PINS, BLACK)	RH side of dash behind glove box		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X400	(8 PINS, BLACK)	in LH rear side of luggage compartment		03-5
X401	(1 PIN, BLACK)	above LH sun visor	38-1	
X402	(1 PIN, BLACK)	above RH sun visor	23-1	
X413	(2 PINS, BLACK)	at back of rear window shelf		
X423	(1 PIN, NATURAL)	below center console on rear of park brake lever		
X424	(1 PIN, BROWN)	in upper LH C–pillar	33-1	
X494	GROUND	under LH front seat under carpet left	39-2	
X495	GROUND	behind RH footwell trim	07-3	
X498	GROUND	under LH front seat under carpet left	39-2	
X503	(12 PINS, WHITE)	LH side of dash	26-1	01-6
X504	(4 PINS, NATURAL)	LH side of dash	26-1	03-3
X511	(8 PINS, BLACK)	center console	30-3	01-4
X516	(5 PINS, BLACK)	center console	30-3	03-2
X517	(4 PINS, BLACK)	LH side of dash	26-1	03-3
X518	(4 PINS, BLACK)	LH footwell	28-2	03-3
X521	(6 PINS, BLUE)	center console		05-3
X522	(3 PINS, NATURAL)	LH footwell	28-2	02-1
X531	(1 PIN, NATURAL)	center console near gearshift lever	30-2	
X532	(2 PINS, BLACK)	center console near gearshift lever	30-2	
X537	(3 PINS, BLACK)	in upper LH front door behind door panel	31-3	01-1
X538	(2 PINS, BLACK)	RH front door behind door panel	32-1	
X542	(2 PINS, BLACK)	LH side of glove box	25-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X603	(12 PINS, BLACK)	LH front seat		04-5
X604	(12 PINS, BLACK)	RH front seat		04-5
X605	(12 PINS, BLACK)	below RH side of rear seat Convertible	02-3	03-4
X605	(12 PINS, BLACK)	in LH side of luggage compartment	04-1	03-4
X606	(26 PINS, BLACK)	below RH side of rear seat Convertible	02-3	00-2
X606	(26 PINS, BLACK)	in LH side of luggage compartment	04-1	00-2
X607	(9 PINS, BLACK)	below LH side of dash	02-2	03-6
X623	(4 PINS, BLACK)	in upper LH front door behind door panel		10-1
X624	(4 PINS, BLACK)	in upper RH front door behind door panel	32-1	10-1
X625	(6 PINS, WHITE)	LH front door	31-3	05-1
X638	(2 PINS, BLACK)	below RH side of rear seat	20-2	
X641	(6 PINS, BLACK)	RH front door behind door panel		08-2
X643	(4 PINS, YELLOW)	in roof panel		10-1
X644	(6 PINS, BLACK)	in lower LH rear door		05-3
X645	(6 PINS, BLUE)	in lower LH rear door		06-2
X646	(6 PINS, BLACK)	in lower RH rear door behind trim panel		06-2
X647	(6 PINS, BLUE)	in lower RH rear door behind trim panel		08-4
X651	(6 PINS, YELLOW)	center console	30-2	05-3
X652	(6 PINS, BLACK)	driver's seat left		05-1
X658	(6 PINS, YELLOW)	center console	30-1	05-3
X660	(4 PINS, BLACK)	LH front door in door at key lock assembly		05-4
X663	(4 PINS, GRAY)	RH side of IHKA Plenum	29-3	10-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X671	(5 PINS, BLACK)	behind LH side of dash		04-3
X679	(2 PINS, NATURAL)	below RH side of rear seat	20-2	
X700	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X701	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X706	(2 PINS, BLACK)	center console	31-2	
X709	(2 PINS, BLACK)	underside of luggage compartment lid, near license plate	09-1	
X710	(2 PINS, BLACK)	underside of luggage compartment lid, near license plate	09-1	
X711	(1 PIN, NATURAL)	underside of luggage compartment lid left	34-2	
X712	(1 PIN, TRANSPARENT)	underside of luggage compartment lid left		
X713	(2 PINS, BLACK)	under rear of car near differential on differential	08-1	
X714	(2 PINS, GRAY)	in lower LH rear door behind trim panel		
X720	(2 PINS, GRAY)	in lower RH rear door behind trim panel		
X726	(2 PINS, ——)	under LH front seat	23-2	
X727	(2 PINS, ——)	under LH front seat	23-2	
X728	(2 PINS, ——)	under LH front seat	23-2	
X729	(2 PINS, ——)	under LH front seat	23-2	
X732	(4 PINS, BLACK)	under LH front seat under carpet		03-3
X733	(4 PINS, BLACK)	under LH front seat under carpet		03-3
X734	(2 PINS, ——)	under RH front seat		
X735	(2 PINS, ——)	under RH front seat		
X736	(2 PINS, ——)	under RH front seat		
X737	(2 PINS, ——)	under RH front seat		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X740	(4 PINS, BLACK)	under RH front seat	24-1	03-3
X741	(4 PINS, BLACK)	under RH front seat	24-1	03-3
X742	(2 PINS, YELLOW)	RH front door in door at key lock assembly		
X744	(2 PINS, GRAY)	RH front door behind door panel	32-1	
X745	(3 PINS, BLACK)	above RH footwell dash panel		01-1
X746	(3 PINS, BLACK)	RH front door behind door panel	32-1	01-1
X747	(2 PINS, YELLOW)	LH front door in door at key lock assembly	32-2	
X748	(3 PINS, BLACK)	footwell, driver's side, behind trim panel		01-1
X749	(4 PINS, BLACK)	in upper LH front door	31-3	
X751	(2 PINS, WHITE)	LH front door	32-2	
X752	(2 PINS, GRAY)	LH front door in door at key lock assembly	32-2	
X753	(3 PINS, BLACK)	LH front door		01-1
X768	(2 PINS, WHITE)	in the engine compartment near LH headlight assembly	08-2	
X769	(2 PINS, WHITE)	in the engine compartment near RH headlight assembly	08-2	
X770	(2 PINS, YELLOW)	front RH side of engine compartment	20-1	
X771	(2 PINS, BLACK)	RH side of LH footwell LH side of IHKA Plenum	28-1	
X772	(2 PINS, WHITE)	center console		
X773	(2 PINS, WHITE)	center console		
X774	(1 PIN, GRAY)	rear of engine compartment behind RH fresh air cowl		
X778	(4 PINS, BLACK)	under LH front seat	23-2	10-1
X779	(2 PINS, BLACK)	LH side of glove box	25-1	
X782	(3 PINS, ORANGE)	below RH side of dash	27-2	10-3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X783	(3 PINS, BLACK)	underside of steering column		10-3
X816	(2 PINS, BLACK)	rear of engine compartment behind RH fresh air cowl		
X817	(1 PIN, BLACK)	rear of engine compartment behind RH fresh air cowl		
X899	(12 PINS, BLACK)	behind center of dashboard		01-3
X904	(4 PINS, BLACK)	LH side of IHKA Plenum	29-1	03-3
X905	(5 PINS, BLACK)	behind center of dashboard		
X999	(4 PINS, BLACK)	behind center of dashboard left		03-3
X1001	(4 PINS, BLACK)	RIGHT REAR SPEAKER		03-3
X1002	(4 PINS, ——)	LEFT REAR SPEAKER		03-3
X1014	(1 PIN, BLACK)	center console near gearshift lever	30-2	
X1070	(18 PINS, BLACK)	center console	03-1	01-5
X1071	(18 PINS, NATURAL)	center console	03-1	01-5
X1074	(15 PINS, WHITE)	below LH side of dash	00-3	00-3
X1075	(15 PINS, BLACK)	below LH side of dash	00-3	00-3
X1148	(2 PINS, BLACK)	front LH side of engine compartment JET HEATER THERMOSWITCH	37-3	
X1155	(3 PINS, BLACK)	center console		01-1
X1162	(2 PINS, BLACK)	near brake master cylinder	18-3	
X1165	GROUND	below LH side of dash	07-1	
X1166	GROUND	behind RH footwell trim	07-3	
X1170	(42 PINS, BLACK)	behind glove box (glove box removed)	01-3	10-4
X1171	(55 PINS, BLACK)	behind glove box (glove box removed)	01-3	00-1
X1176	(25 PINS, BLACK)	LH side of engine compartment		05-2

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1178	(2 PINS, WHITE)	below center console LH side of gearshift selector		
X1193	(3 PINS, BLACK)	center console RH side of gearshift selector		01-1
X1213	(2 PINS, BLACK)	center console	31-2	
X1239	(2 PINS, BLACK)	RH C–Pillar		
X1240	(2 PINS, BLACK)	LH C–Pillar		
X1241	(2 PINS, NATURAL)	below LH side of rear seat	21-2	
X1243	(6 PINS, BLACK)	center console near gearshift lever	31-1	07-1
X1245	(1 PIN, BLACK)	in sun visor left		
X1246	(1 PIN, BLACK)	in sun visor right		
X1260	(2 PINS, NATURAL)	behind side panel left		
X1261	(2 PINS, NATURAL)	behind side panel right		
X1292	(4 PINS, NATURAL)	center console		10-1
X1380	(1 PIN, NATURAL)	behind RH footwell speaker grille		
X1381	(1 PIN, NATURAL)	behind LH footwell kickpanel		
X1405	(1 PIN, NATURAL)	rear LH side of engine compartment in Power Distribution Box		
X1406	(1 PIN, WHITE)	rear LH side of engine compartment in Power Distribution Box		
X1439	(2 PINS, BLACK)	center console		
X1441	GROUND	below rear seat	00-2	
X1527	(26 PINS, BLUE)	behind center console	03-2	00-2
X1588	(2 PINS, BLACK)	below LH side of dash		
X1659	(15 PINS, YELLOW)	RH side of dash behind glove box	38-3	00-3
X1660	(3 PINS, WHITE)	RH side of steering column	04-3	01-1

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X1715	(4 PINS, NATURAL)	behind trim panel, SUBWOOFER		03-3
X1780	(9 PINS, BLACK)	footwell, driver's side behind trim panel		03-6
X1883	(3 PINS, ——)	in driver's door		01-1
X1884	(3 PINS, ——)	in passenger's door		01-1
X1885	(3 PINS, BLACK)	under LH front seat, under carpet left	39-2	09-1
X1886	(3 PINS, BLACK)	under RH front seat, under carpet right		09-1
X1890	(3 PINS, BLACK)	behind front grille behind trim panel		08-1
X1892	(3 PINS, BLACK)	in RH rear side of luggage compartment		01-1
X4770	(4 PINS, NATURAL)	in upper RH C–pillar		10-1
X4771	(4 PINS, NATURAL)	in upper LH C–pillar		10-1
X6000	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X6002	(20 PINS, BLACK)	rear RH side of engine compartment	05-1	04-4
X6031	(12 PINS, BLACK)	rear LH side of engine compartment		01-6
X6091	(30 PINS, BLACK)	rear of engine compartment on firewall		05-6
X6101	(2 PINS, BLACK)	top center of engine	36-1	
X6102	(2 PINS, BLACK)	top center of engine	36-1	
X6103	(2 PINS, BLACK)	top center of engine	36-1	
X6104	(2 PINS, BLACK)	top center of engine	36-1	
X6105	(2 PINS, BLACK)	top center of engine	36-1	
X6106	(2 PINS, BLACK)	top center of engine	36-1	
X6120	(2 PINS, BLACK)	LH side of engine compartment right of LH side shock tower	15-1	
X6120	(2 PINS, BLACK)	LH side of engine compartment right of LH side shock tower	20-3	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6130	(3 PINS, GRAY)	front of engine below intake manifold	11-3	10-2
X6130	(2 PINS, BLACK)	rear LH side of engine compartment	11-2	
X6131	(2 PINS, BLACK)	rear LH side of engine compartment	36-2	
X6133	(2 PINS, BLACK)	front of engine compartment		
X6150	(12 PINS, BLACK)	front RH side of engine compartment	05-1	01-6
X6151	(3 PINS, GRAY)	top RH side of engine		07-4
X6152	(3 PINS, GRAY)	top RH side of engine		07-4
X6153	(3 PINS, GRAY)	top RH side of engine		07-4
X6154	(3 PINS, GRAY)	top RH side of engine		07-4
X6155	(3 PINS, GRAY)	top RH side of engine		07-4
X6156	(3 PINS, GRAY)	top RH side of engine		07-4
X6163	(2 PINS, BLACK)	RH side of engine		
X6203	(3 PINS, BLACK)	front of engine below intake manifold		10-2
X6204	(3 PINS, BLACK)	front of engine below intake manifold		07-3
X6205	(2 PINS, BLACK)	front LH side of engine compartment (318is)	18-2	
X6205	(2 PINS, BLACK)	LH side of engine near oil level stick	36-3	
X6207	(4 PINS, BLACK)	LH side of engine	12-1	07-2
X6209	(3 PINS, BLACK)	front of engine HALL EFFECT CAMSHAFT SENSOR		07-5
X6217	(4 PINS, GRAY)	top front of engine	18-2	07-2
X6231	(2 PINS, BLACK)	LH side of engine compartment near oil level stick	11-1	
X6231	(2 PINS, BROWN)	front of engine below intake manifold (318is)	17-1	
X6238	(2 PINS, BLACK)	LH side of engine (M3)		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6240	(4 PINS, BLACK)	LH side of engine near starter		07-2
X6252	(3 PINS, BLACK)	LH side of engine	13-3	07-3
X6252	(3 PINS, BLACK)	LH side of engine near oil level stick	12-1	10-2
X6256	(4 PINS, BLACK)	front of engine	11-1	07-2
X6256	(4 PINS, BLACK)	front of engine	17-2	
X6275	(2 PINS, BLACK)	top center of engine	12-2	
X6300	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6301	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6304	(9 PINS, BLACK)	rear LH side of engine compartment		03-6
X6326	(9 PINS, BLACK)	rear RH side of engine compartment in E–Box	39-1	03-6
X6430	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6431	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6432	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6433	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6437	CABLE SOCKET B+ JUMP START JUNCTION POINT	rear RH side of engine compartment		
X6454	GROUND	rear RH side of engine compartment back of RH side shock tower	06-2	
X6456	GROUND	on cylinder head	07-2	
X6509	CABLE SOCKET ALTERNATOR B+	front LH side of engine compartment	05-2	
X6510	CABLE SOCKET STARTER, TERMINAL 50	rear LH side of engine compartment below intake manifold		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X6511	CABLE SOCKET STARTER, TERMINAL 30h	rear LH side of engine compartment below intake manifold		
X6512	CABLE SOCKET STARTER, TERMINAL 30	rear LH side of engine compartment below intake manifold		
X6550	(2 PINS, BLACK)	under LH center of car behind trim panel	27-1	
X7000	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X7509	CABLE SOCKET ALTERNATOR, TERMINAL D+	front LH side of engine compartment below		
X8500	(88 PINS, BLACK)	rear RH side of engine compartment	00-1	06-1
X8503	(10 PINS, WHITE)	center console RH side of gearshift selector	31-1	02-4
X8505	(16 PINS, BLACK)	on RH side of transmission		03-1
X8507	(1 PIN, BLACK)	below LH side of dash		
X8511	(2 PINS, BLACK)	under front of car LH side of transmission		
X8516	(3 PINS, BLACK)	under center of car above		10-2
X9997	(2 PINS, ORANGE)	behind steering wheel	24-2	
X10010	GROUND	behind RH footwell trim		
X10012	GROUND	behind RH footwell trim	07-3	
X10013	(1 PIN, ——)	top of steering column		
X10054	(12 PINS, BLACK)	below LH side of dash RH side of steering column	28-1	04-5
X10070	(2 PINS, GRAY)	near LH headlight assembly	13-2	
X10071	(2 PINS, BLACK)	near LH headlight assembly	13-2	
X10074	(2 PINS, BLACK)	near LH headlight assembly		
X10075	(2 PINS, GRAY)	near RH headlight assembly		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10092	(9 PINS, BLACK)	behind glove box left	25-2	03-6
X10094	(2 PINS, BLACK)	LH side of engine compartment	12-1	
X10098	(1 PIN, ——)	front RH side of engine compartment		
X10099	(1 PIN, ——)	front RH side of engine compartment		
X10182	(18 PINS, BLACK)	behind glove box (glove box removed)		01-5
X10193	(9 PINS, BLACK)	behind glove box (glove box removed)	01-2	03-6
X10213	(2 PINS, BLACK)	front RH side of engine compartment		
X10216	(2 PINS, YELLOW)	driver's seat right		
X10217	(2 PINS, YELLOW)	passenger's seat left		
X10218	(3 PINS, NATURAL)	under RH front seat	24-1	01-1
X10223	(3 PINS, BLACK)	in convertible top compartment left	22-1	00-1
X10224	(2 PINS, BLACK)	in convertible top compartment left	22-1	
X10225	(3 PINS, BLACK)	underside of luggage compartment lid		01-1
X10226	(9 PINS, BLACK)	behind glove box	25-2	03-6
X10227	(4 PINS, BLACK)	in convertible top compartment		07-6
X10238	(2 PINS, BLACK)	LH side of engine compartment		
X10239	(3 PINS, BLACK)	LH side of engine compartment	12-1	07-3
X10244	(1 PIN, BLACK)	below LH side of dash		
X10250	(2 PINS, BLACK)	behind LH footwell speaker grille		
X10261	(4 PINS, BLACK)	front RH side of engine compartment near RH headlight assembly	09-3	08-5
X10262	(9 PINS, BLACK)	below LH side of dash		03-6
X10266	(6 PINS, BLACK)	below RH side of rear seat (Convertible)		05-3

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X10267	(6 PINS, BLACK)	center console		05-3
X10273	(2 PINS, BLACK)	LH side of dash behind instrument cluster		
X11166	GROUND	in lower LH C–pillar behind side panel	35-3	
X11205	(2 PINS, BLACK)	behind rear seats right	22-3	
X11208	(2 PINS, BLACK)	hard top		
X11209	(2 PINS, BLACK)	behind rear seats left behind side panel	35-3	
X11211	(2 PINS, ——)	in convertible top compartment		
X11277	(3 PINS, YELLOW)	on lift gate in rear spoiler		01-1
X11289	(3 PINS, BLACK)	under LH front seat		01-1
X11290	(3 PINS, BLACK)	under RH front seat		01-1
X11335	(3 PINS, ——)	in driver's door	39-3	01-1
X11336	(3 PINS, ——)	in passenger's door		01-1
X11379	(3 PINS, NATURAL)	RH top of radiator	09-3	06-4
X11382	(2 PINS, BLUE)	front cover	35-1	
X11383	(2 PINS, BLUE)	in lower LH C–pillar behind side panel	35-3	
X11385	(3 PINS, BLACK)	front cover	35-1	01-1
X11386	(3 PINS, BLUE)	in lower LH C–pillar behind side panel	35-3	01-1
X11390	(12 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	01-3
X11393	(9 PINS, BLACK)	Power Distribution Box rear LH side of engine compartment		03-6
X11394	(25 PINS, BLACK)	rear LH side of engine compartment back of LH side shock tower		05-5
X11395	(5 PINS, BLACK)	behind glove box ((glove box removed))		04-3
X13004	GROUND	in upper RH rear seatback	06-1	

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13006	GROUND	in upper LH rear seatback		
X13009	GROUND	behind RH footwell trim	07-3	
X13016	GROUND	below LH side of dash	07-1	
X13025	(12 PINS, BLACK)	behind glove box (glove box removed)	01-3	04-5
X13044	(12 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	01-3
X13045	(6 PINS, GREEN)	center console		05-3
X13079	(3 PINS, YELLOW)	behind rear seats		01-1
X13142	(2 PINS, WHITE)	behind rear seats	21-3	
X13143	(3 PINS, BLACK)	behind rear seats behind side panel	35-3	01-1
X13145	(6 PINS, BLACK)	in LH side of luggage compartment	34-3	04-2
X13146	(2 PINS, BLACK)	in LH side of luggage compartment	34-1	
X13152	(4 PINS, BLACK)	in LH side of luggage compartment	34-1	07-6
X13156	(10 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	09-4
X13157	(6 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	05-3
X13159	(26 PINS, BLACK)	in lower LH C–pillar behind side panel	02-1	00-2
X13170	(2 PINS, BLACK)	in spare–wheel well	14-3	
X13171	(3 PINS, NATURAL)	RH rear wheel well behind trim panel	14-1	06-4
X13172	(2 PINS, BLACK)	in LH rear side of luggage compartment	14-2	
X13176	(6 PINS, NATURAL)	under roof center panel		05-3
X13226	(2 PINS, BLACK)	behind rear seats		
X13227	(2 PINS, BLACK)	behind rear seats		
X13230	GROUND	behind RH footwell trim above (Convertible)		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X13252	(15 PINS, BLACK)	behind glove box (glove box removed)	01-1	00-3
X13253	(26 PINS, YELLOW)	behind glove box (glove box removed)	01-1	00-2
X13254	(26 PINS, GREEN)	behind glove box (glove box removed)	01-1	00-2
X13255	(12 PINS, NATURAL)	behind glove box (glove box removed)		01-3
X13256	(2 PINS, GRAY)	left from LH rear seat behind trim panel	22-2	
X13257	(2 PINS, GRAY)	RH side of RH rear seat behind trim panel	22-2	
X13258	(15 PINS, WHITE)	behind glove box (glove box removed)	25-2	00-3
X13262	(6 PINS, BLUE)	center console		05-3
X13263	(2 PINS, BLACK)	behind glove box		
X13305	(8 PINS, BLACK)	center console		01-4
X18080	(1 PIN, TRANSPARENT)	in luggage compartment		
X18126	(17 PINS, BLACK)	center console behind radio		02-3
X18135	(4 PINS, ——)	under driver’s seat		
X18196	(10 PINS, BLACK)	driver’s door LEFT FRONT HIGH RANGE SPEAKER		02-4
X18198	(10 PINS, BLACK)	passenger’s door RIGHT FRONT HIGH RANGE SPEAKER		02-4
X18279	(2 PINS, BLACK)	in lower LH front door behind trim panel		
X18280	(2 PINS, BLACK)	in lower RH side of front door behind trim panel		
X18296	(2 PINS, YELLOW)	in lower LH B–pillar behind trim panel	32-2	
X18336	(3 PINS, BLACK)	LH side of glove box (glove box removed)	25-1	01-1
X18518	(4 PINS, BLACK)	under RH front seat		10-1
X18520	(10 PINS, ——)	center console RADIO		
X18521	(10 PINS, ——)	RH side of luggage compartment CD CHANGER		

COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
X18723	GROUND	below LH side of dash		
X18741	(4 PINS, ——)	center of dash MICROPHONE		
X18797	(1 PIN, NATURAL)	in RH rear side of luggage compartment		
X18798	(1 PIN, NATURAL)	in RH rear side of luggage compartment		
X18994	(3 PINS, YELLOW)	rear LH side of engine compartment below		01-1
X19527	(16 PINS, BLACK)	below LH side of dash		08-3
X19561	(6 PINS, BLACK)	on RH side of transmission		05-3
X62001	(4 PINS, BLACK)	under center of car (318is)	37-1	07-2
X62002	(4 PINS, BLACK)	under center of car (318is)	37-2	07-2
X62101	(4 PINS, BLACK)	top center of engine	15-3	07-2
X62102	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X62201	(4 PINS, BLACK)	top center of engine	15-3	07-2
X62202	(4 PINS, BLACK)	under center of car on catalytic converter		07-2
X90260	(3 PINS, NATURAL)	RH side of steering column	04-3	01-1
X91009	(2 PINS, BLACK)	under passenger's seat		
Y1	ABS HYDRAULIC UNIT	rear LH side of engine compartment back of LH side shock tower	16-2	
Y1w	ABS HYDRAULIC UNIT	LH side of engine compartment		
Y2	AIR CONDITIONING COMPRESSOR	front of engine		
Y4	WATER VALVE ASSEMBLY	rear LH side of engine compartment	16-2	
Y5	DRIVER'S SIDE MIRROR	in upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	in upper RH front door		
Y19	SHIFT–LOCK	center console RH side of gearshift selector		

COMPONENT LOCATION CHART

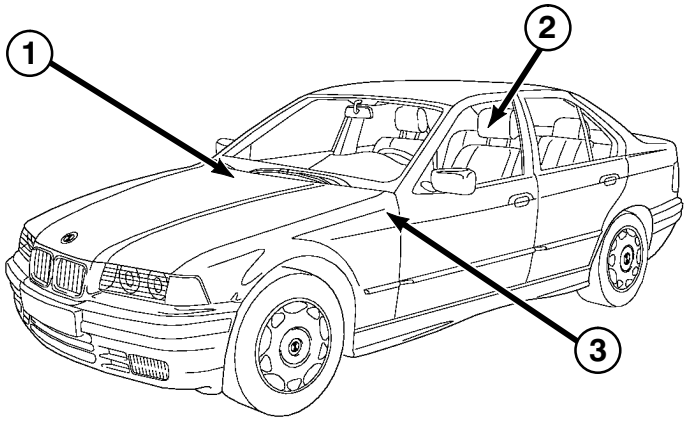
COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y85	LH ROLLOVER PROTECTION ACTUATOR	behind rear seats (Convertible)	02-3	
Y86	RH ROLLOVER PROTECTION ACTUATOR	behind rear seats (Convertible)	02-3	
Y198	EXHAUST GAS FLAP VALVE	in LH rear side of luggage compartment	14-2	
Y199	CARBON CANISTER VALVE	in spare–wheel well	14-3	
Y6101	CYL. 1 FUEL INJECTION VALVE	RH front of engine	12-3	
Y6102	CYL. 2 FUEL INJECTION VALVE	top center of engine	12-3	
Y6103	CYL. 3 FUEL INJECTION VALVE	top center of engine	12-3	
Y6104	CYL. 4 FUEL INJECTION VALVE	top center of engine	12-3	
Y6105	CYL. 5 FUEL INJECTION VALVE	top center of engine	12-3	
Y6106	CYL. 6 FUEL INJECTION VALVE	top center of engine	12-3	
Y6120	EVAPORATIVE EMISSION VALVE	front LH side of engine compartment right of LH side shock tower	15-1	
Y6120	EVAPORATIVE EMISSION VALVE	LH side of engine compartment right of LH side shock tower	20-3	
Y6130	IDLE SPEED CONTROL VALVE	front of engine below intake manifold	11-3	
Y6130	IDLE SPEED CONTROL VALVE	rear LH side of engine compartment	11-2	
Y6131	INTAKE AIR RESONANCE CHANGEOVER VALVE	rear LH side of engine compartment	36-2	
Y6133	AIR PUMP	front of engine compartment	05-1	
Y6163	SECONDARY AIR PUMP VALVE	RH side of engine		
Y6275	VARIABLE CAMSHAFT CONTROL VALVE 1	top center of engine	12-2	
Y6550	SOLENOID VALVE (”RUNNING LOSSES”)	under LH center of car		
Y8505	TRANSMISSION VALVE UNIT	on LH side of transmission		

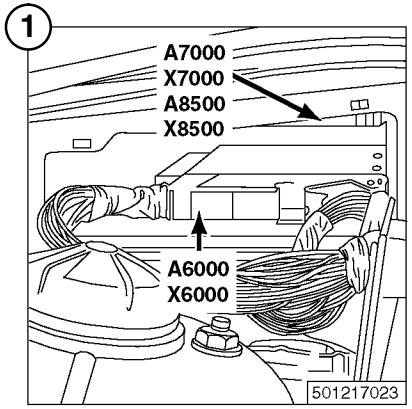
COMPONENT LOCATION CHART

COMP.	DESCRIPTION	LOCATION	7100.0	8500.0
Y8505y	TRANSMISSION VALVE UNIT	on LH side of transmission		
Y8521	TRANSMISSION VALVE UNIT	on RH side of transmission		

7100.0 COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

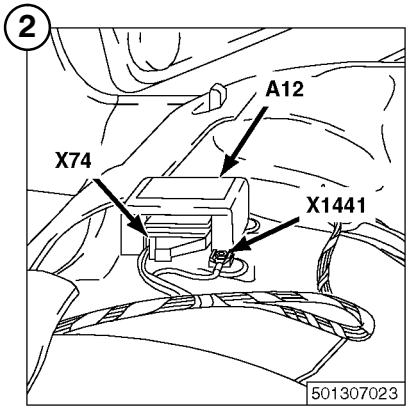




A6000 ENGINE CONTROL MODULE (DME) — X6000, X7000, X8500

A7000 TRANSMISSION CONTROL MODULE (EGS)

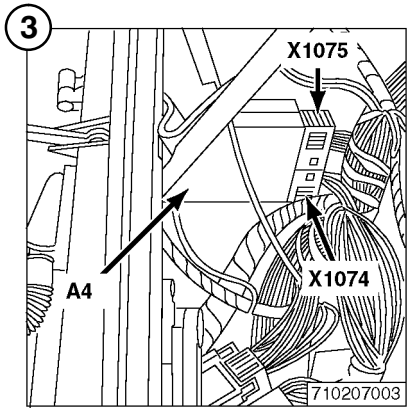
A8500 TRANSMISSION CONTROL MODULE (EGS)



A12 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X1441 GROUND

X74

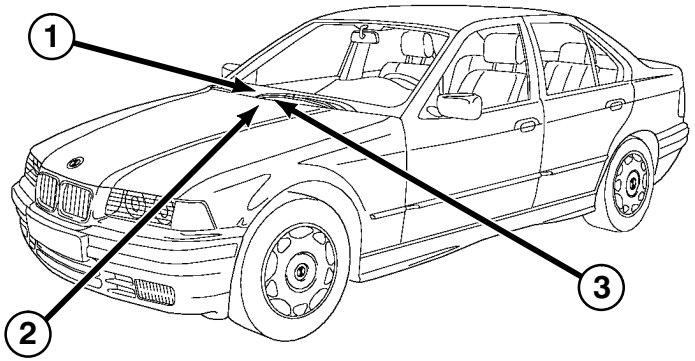


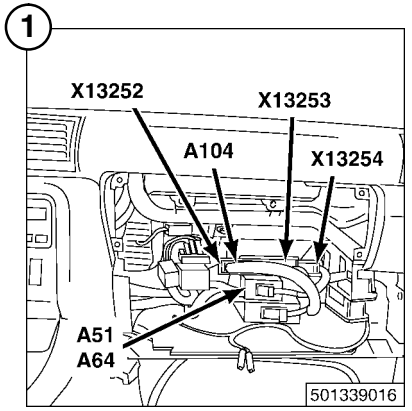
A4 CHECK CONTROL MODULE

X1074, X1075

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



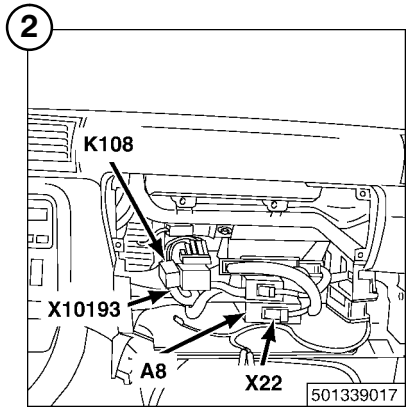


A51
WIPER/WASHER
MODULE

X13252
X13253
X13254

A64
WIPER/WASHER
MODULE (LOW II)

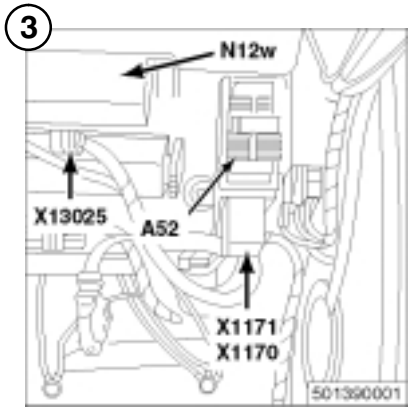
A104
BODY
ELECTRONICS
CONTROL MODULE
(ZKE IV)



A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

K108
HORN RELAY
(ALPINE)

X22
X10193



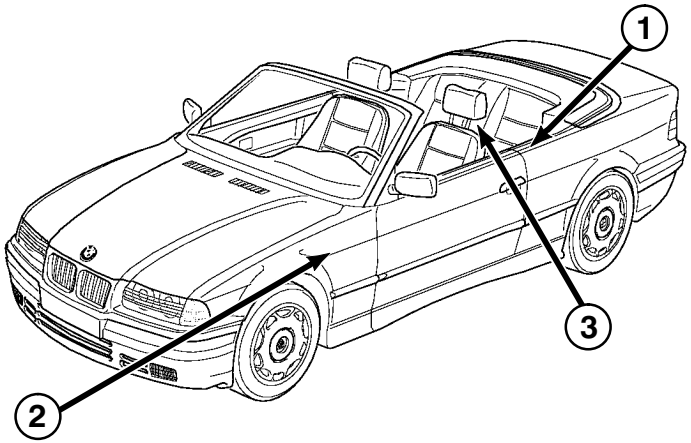
A52
SLIP CONTROL
MODULE
(ABS/ASC)

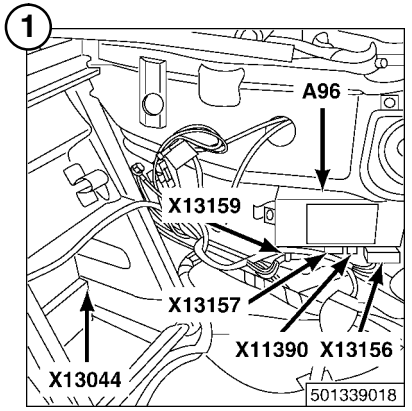
N12w
ANTI–THEFT
CONTROL MODULE
(ALPINE)

X1170
X1171
X13025

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

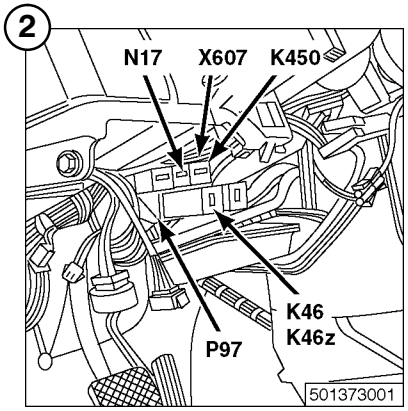




A96
CONVERTIBLE TOP
CONTROL MODULE

X11390
X13044
X13156
X13157
X13159

CONVERTIBLE



K46
HIGH BEAM LIGHT
RELAY

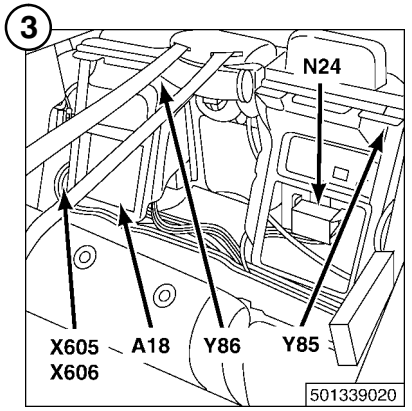
K46z
DAY LIGHT RELAY
MODULE

K450
PARK VENTILATION
RELAY

N17
CRASH CONTROL
MODULE

P97
AUXILIARY FUSE
BOX

X607



A18
HIFI AMPLIFIER

N24
ROLLOVER
SENSOR

Y85
LH ROLLOVER
PROTECTION
ACTUATOR

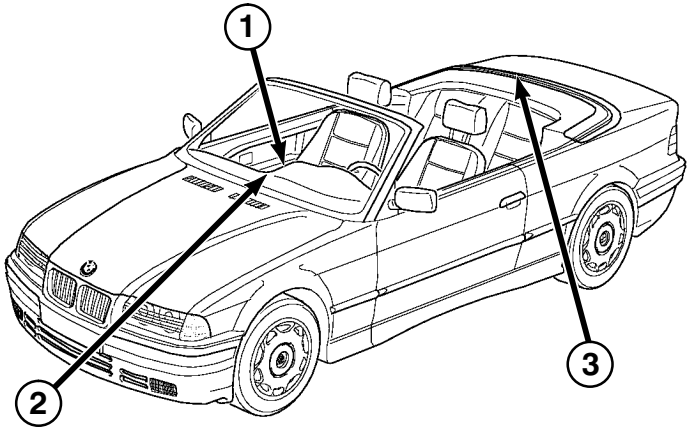
Y86
RH ROLLOVER
PROTECTION
ACTUATOR

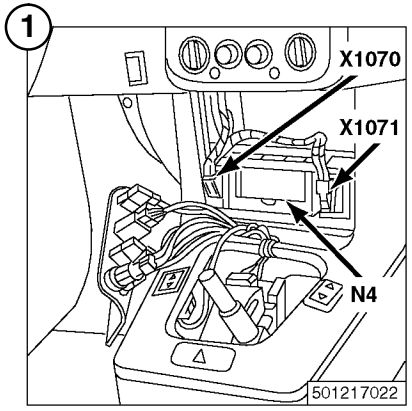
X605
X606

CONVERTIBLE

COMPONENT LOCATION VIEWS

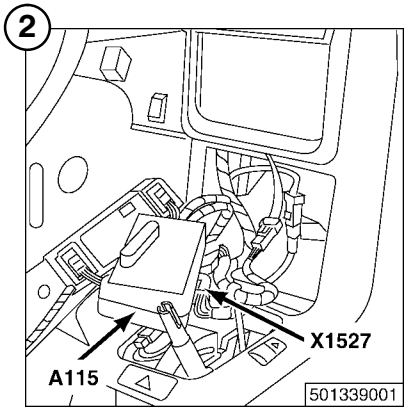
ELECTRICAL CONTROL MODULE LOCATIONS





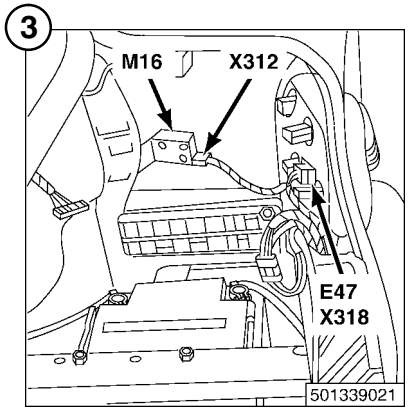
N4
ON–BOARD
COMPUTER

X1070
X1071



A115
AUTOMATIC
CLIMATE CONTROL
MODULE

X1527



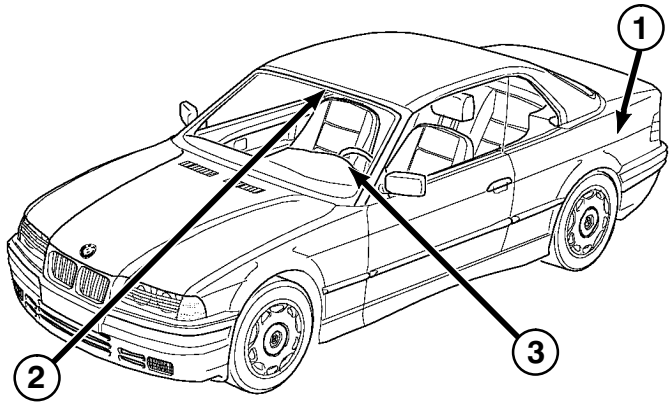
E47
RIGHT LUGGAGE
COMPARTMENT
LIGHT ASSEMBLY

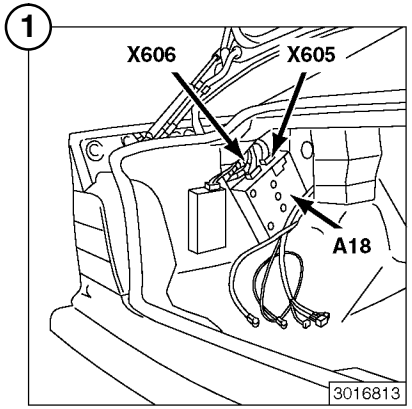
M16
GAS FILLER LOCK
MOTOR

X312
X318

COMPONENT LOCATION VIEWS

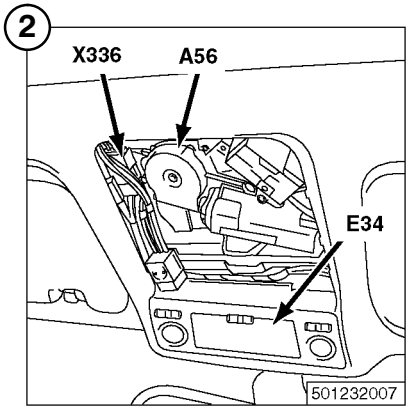
ELECTRICAL CONTROL MODULE LOCATIONS





A18
HIFI AMPLIFIER

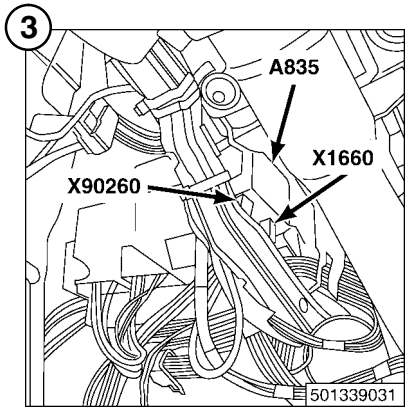
X605
X606



A56
TILT/SLIDE SUN-ROOF CONTROL ASSEMBLY

E34
FRONT DOME LIGHT/MAP READ-ING ASSEMBLY

X336

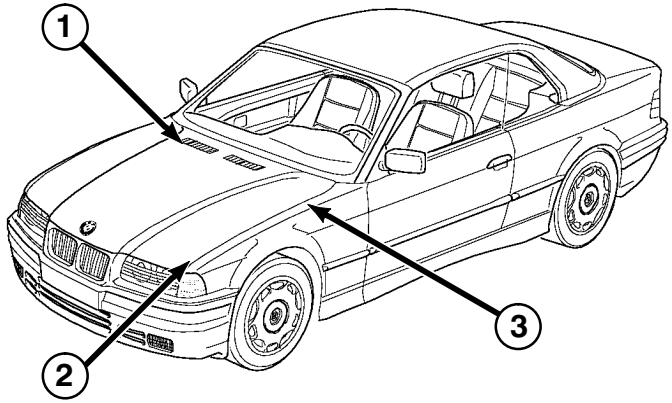


A835
TRANSMITTER MODULE (EWS II)

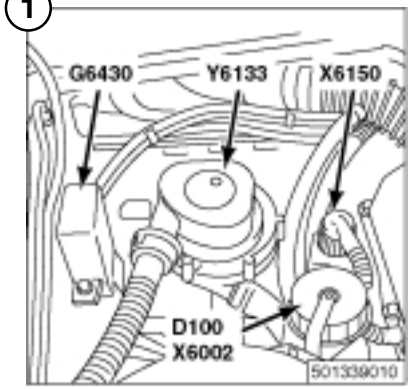
X1660
X90260

COMPONENT LOCATION VIEWS

B(+)



1



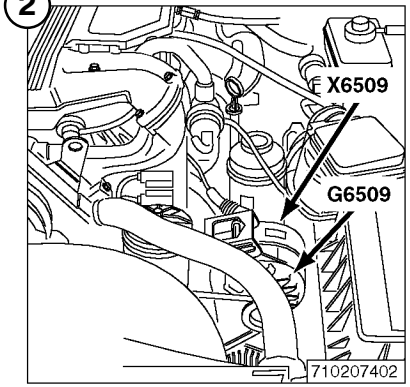
D100
DATA LINK
CONNECTOR

X6002
X6150

G6430
B+ JUMP START
JUNCTION POINT

Y6133
AIR PUMP

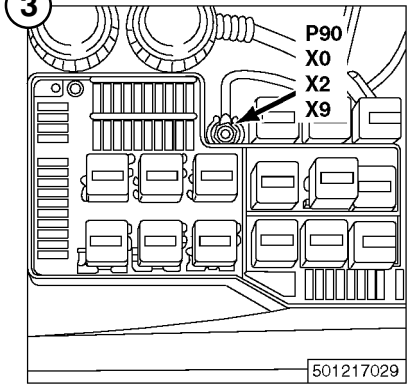
2



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+

3



P90
FRONT POWER
DISTRIBUTION BOX

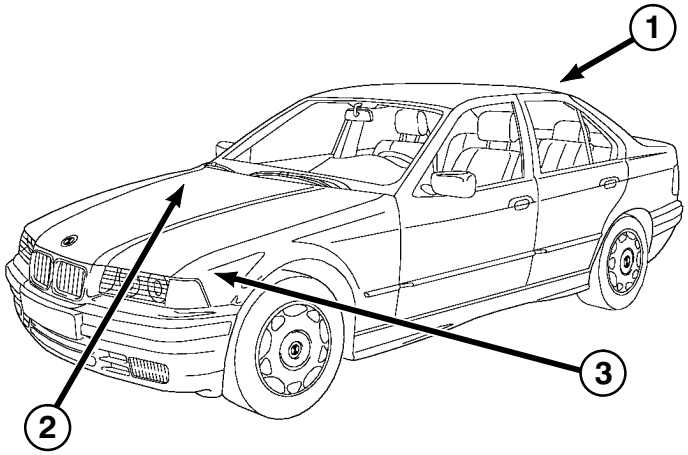
X0
B+ JUNCTION
POINT

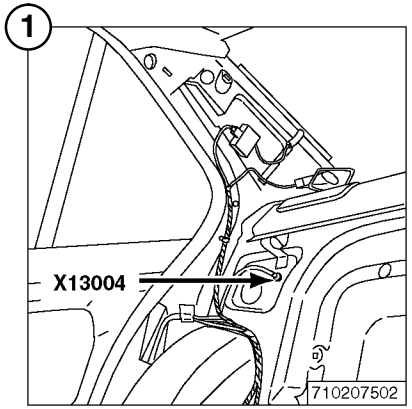
X2
BATTERY B+
START POINT

X9
B+ JUNCTION
POINT

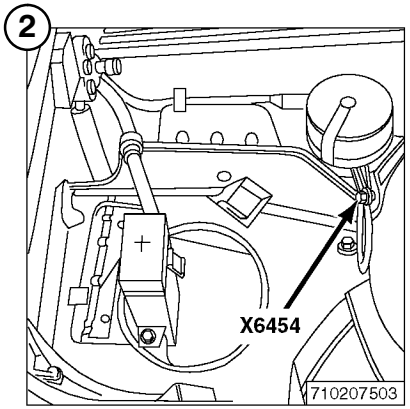
COMPONENT LOCATION VIEWS

B(–)

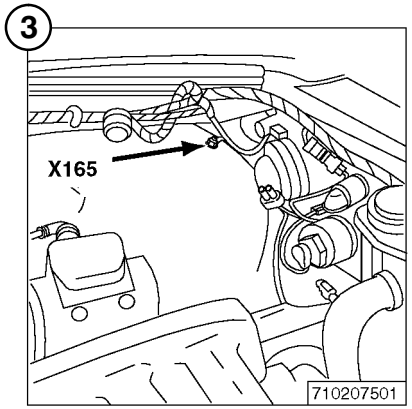




X13004
GROUND



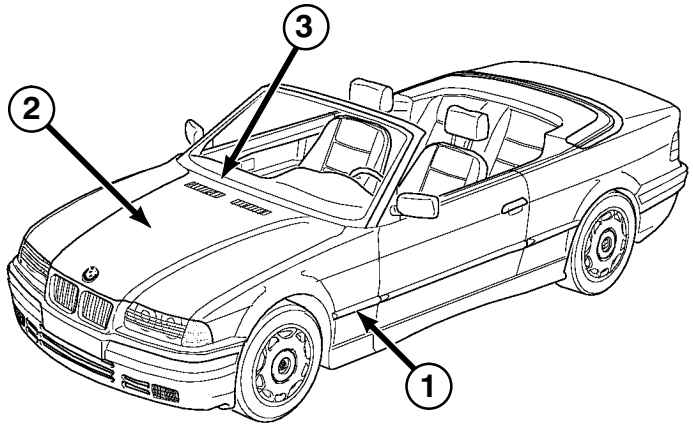
X6454
GROUND

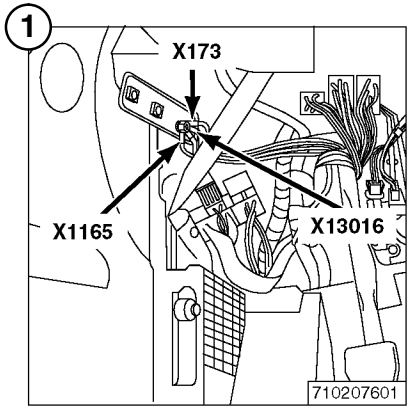


X165
GROUND

COMPONENT LOCATION VIEWS

B(–)

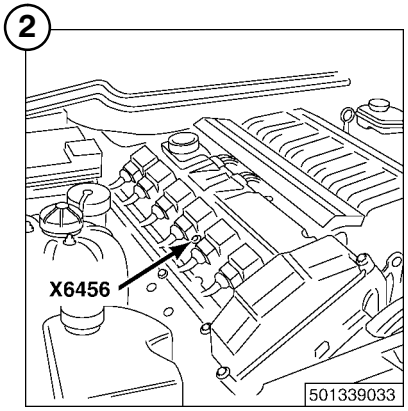




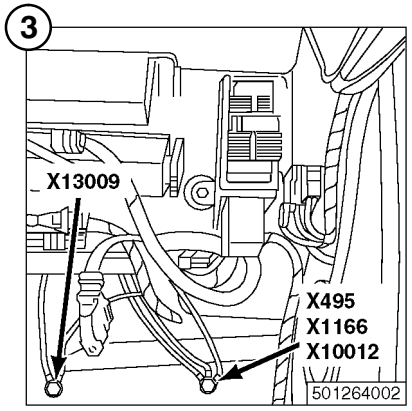
X173
GROUND

X1165
GROUND

X13016
GROUND



X6456
GROUND



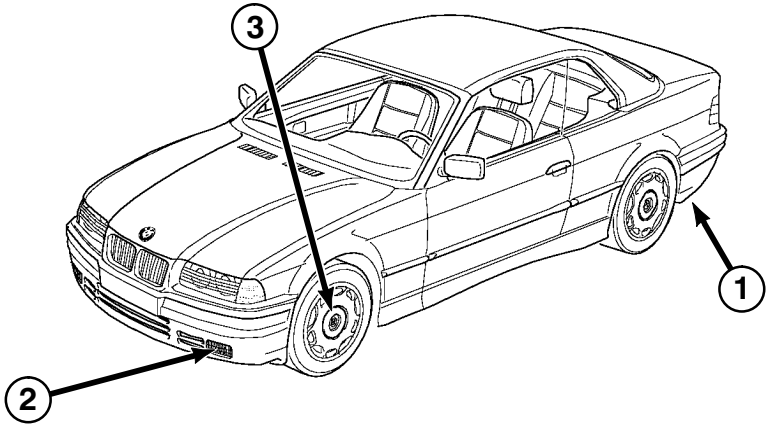
X495
GROUND

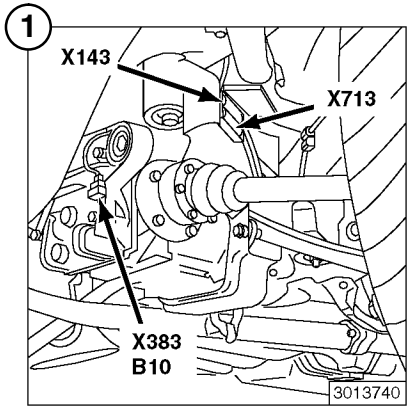
X1166
GROUND

X10012
GROUND

X13009
GROUND

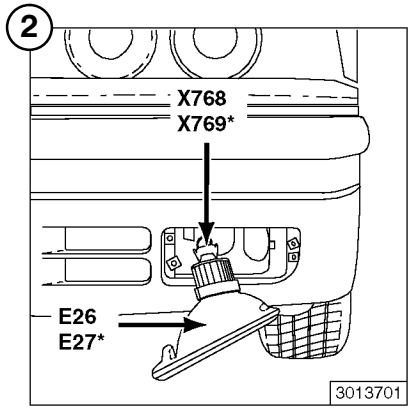
COMPONENT LOCATION VIEWS





B10
VEHICLE SPEED SENSOR

X143
X383
X713

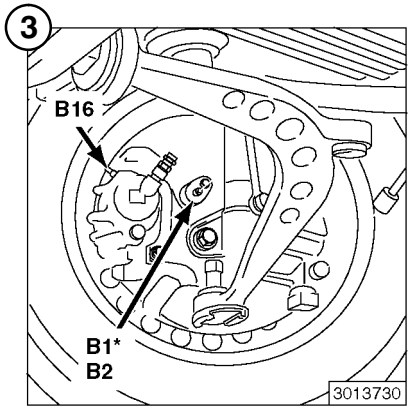


E26
LEFT FOG LIGHT

E27 *
RIGHT FOG LIGHT

X768
X769 *

* RH SIMILAR



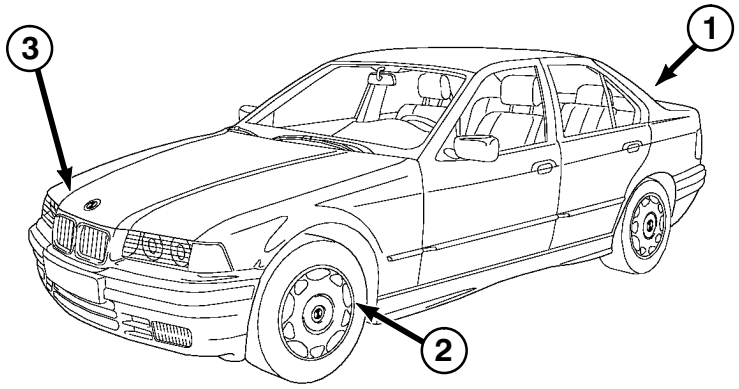
B1 *
RIGHT FRONT SPEED SENSOR – ABS

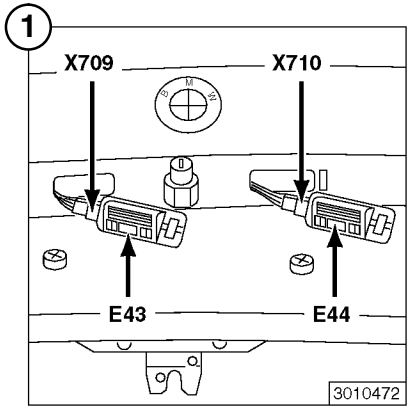
B2
LEFT FRONT SPEED SENSOR – ABS

B16
LEFT FRONT BRAKE PAD SENSOR

* RH SIMILAR

COMPONENT LOCATION VIEWS

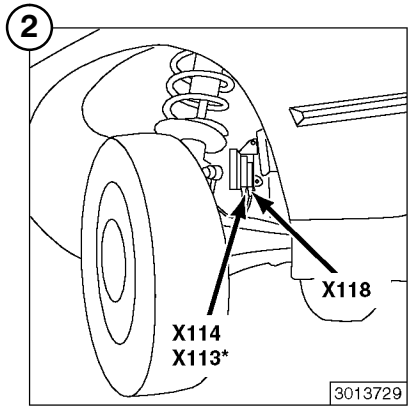




E43
LEFT LICENSE PLATE LIGHT

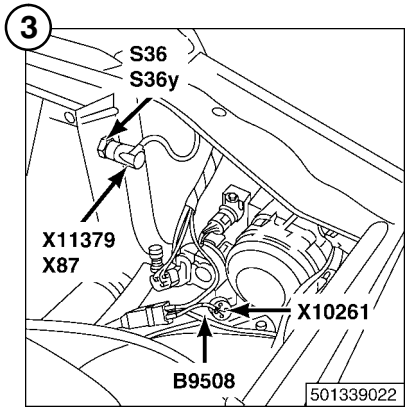
E44
RIGHT LICENSE PLATE LIGHT

X709
X710



X113 *
X114
X118

* RH SIMILAR



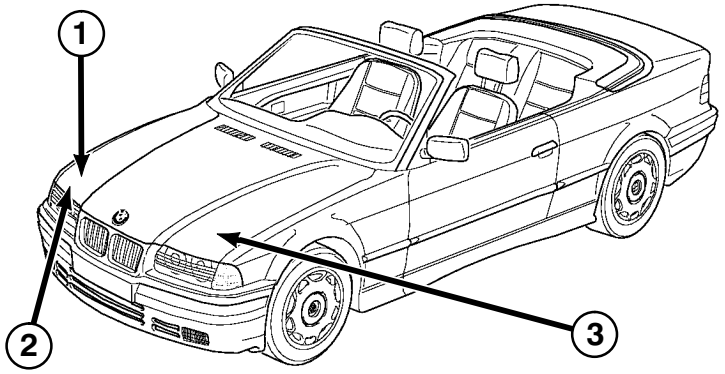
B9508
PRESSURE SWITCH

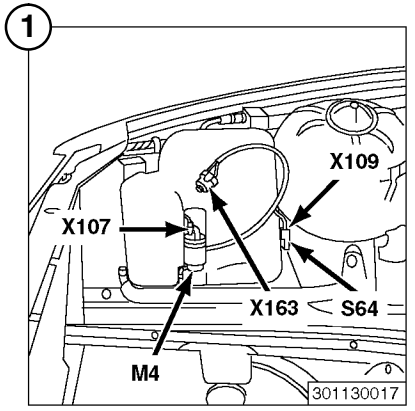
S36
TEMPERATURE SWITCH

S36y
DOUBLE TEMPERATURE SWITCH

X87
X10261
X11379

COMPONENT LOCATION VIEWS

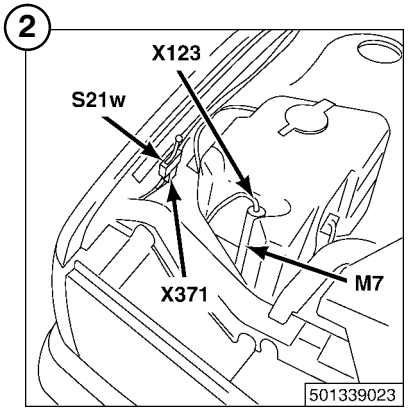




M4
WASHER PUMP

S64
WASHER FLUID
LEVEL SWITCH

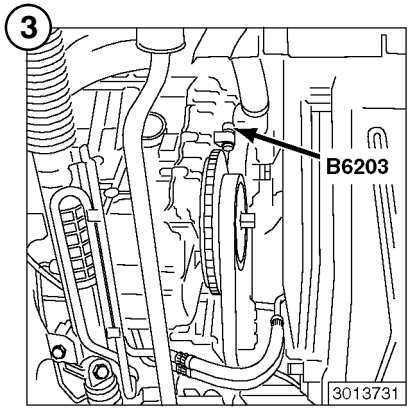
X107
X109
X163



M7
HEADLIGHT/FOG
LIGHT WASHER
PUMP

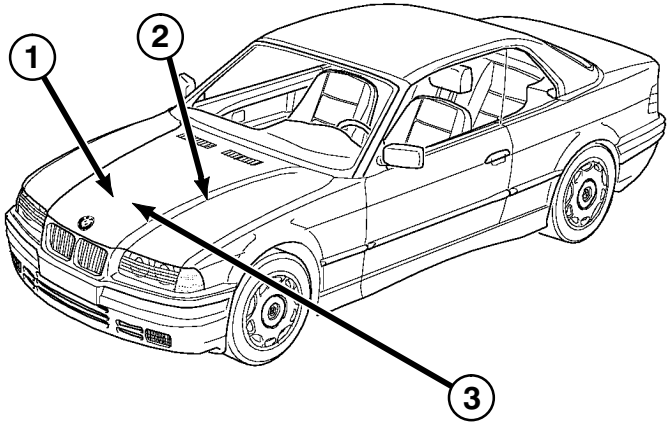
S21w
ENGINE HOOD
SWITCH

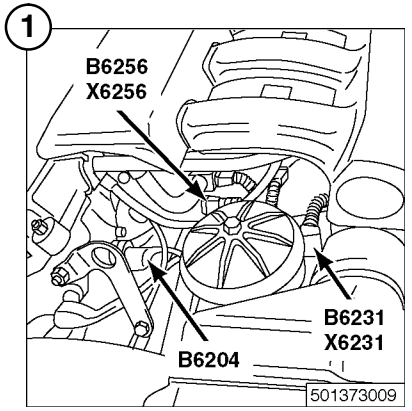
X123
X371



B6203
CRANKSHAFT
POSITION/RPM
SENSOR

COMPONENT LOCATION VIEWS

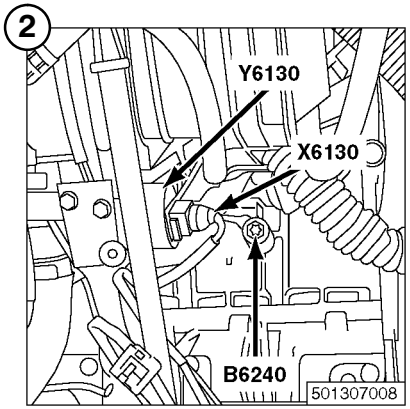




B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) X6231 X6256

B6231 OIL PRESSURE SWITCH

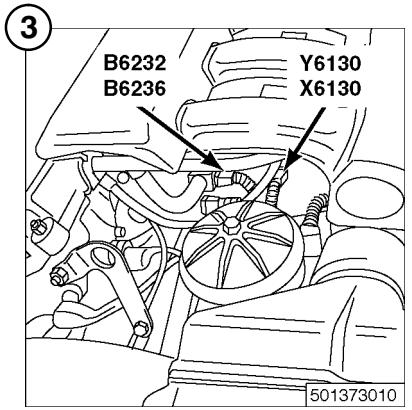
B6256 DUAL TEMPERATURE SENSOR (COOLANT TEMPERATURE)



B6240 KNOCK SENSOR

Y6130 IDLE SPEED CONTROL VALVE

X6130

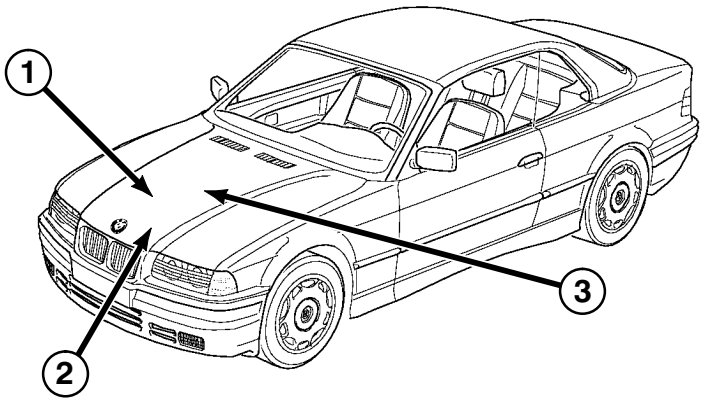


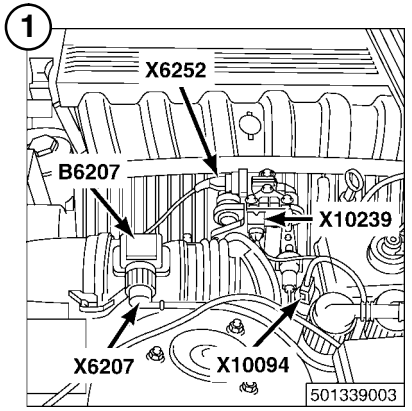
B6232 ENGINE COOLANT TEMPERATURE SENSOR X6130

B6236 ENGINE COOLANT TEMPERATURE SENSOR

Y6130 IDLE SPEED CONTROL VALVE

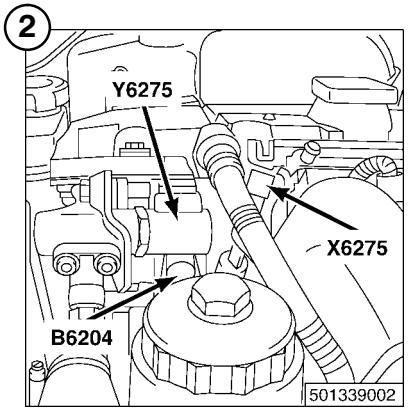
COMPONENT LOCATION VIEWS





B6207
HOT FILM AIR MASS METER

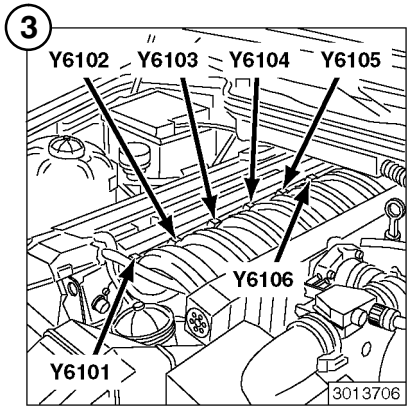
X6207
X6252
X10094
X10239



B6204
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)

Y6275
VARIABLE CAM-SHAFT CONTROL VALVE 1

X6275



Y6101
CYL. 1 FUEL INJECTION VALVE

Y6102
CYL. 2 FUEL INJECTION VALVE

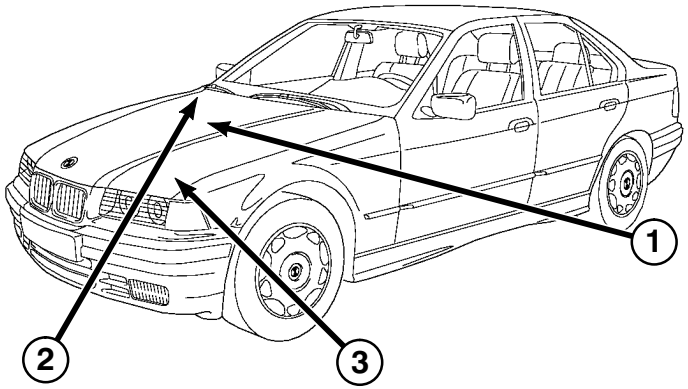
Y6103
CYL. 3 FUEL INJECTION VALVE

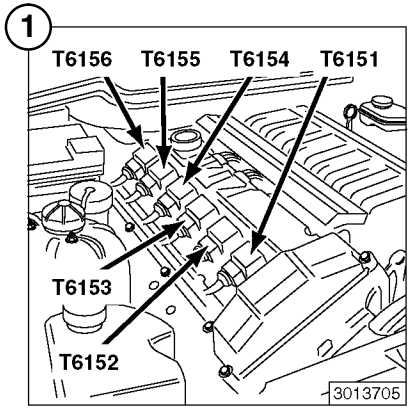
Y6104
CYL. 4 FUEL INJECTION VALVE

Y6105
CYL. 5 FUEL INJECTION VALVE

Y6106
CYL. 6 FUEL INJECTION VALVE

COMPONENT LOCATION VIEWS





T6151
CYL. 1 IGNITION COIL

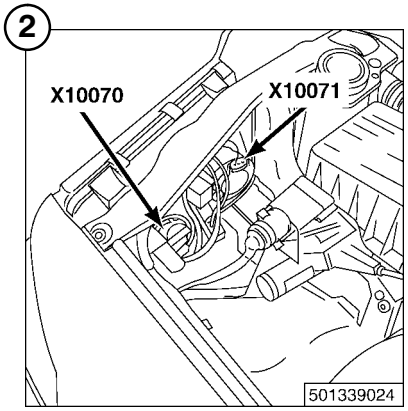
T6152
CYL. 2 IGNITION COIL

T6153
CYL. 3 IGNITION COIL

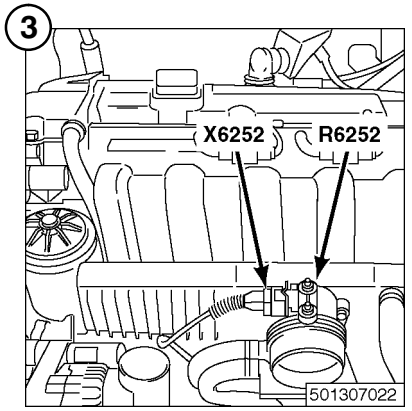
T6154
CYL. 4 IGNITION COIL

T6155
CYL. 5 IGNITION COIL

T6156
CYL. 6 IGNITION COIL



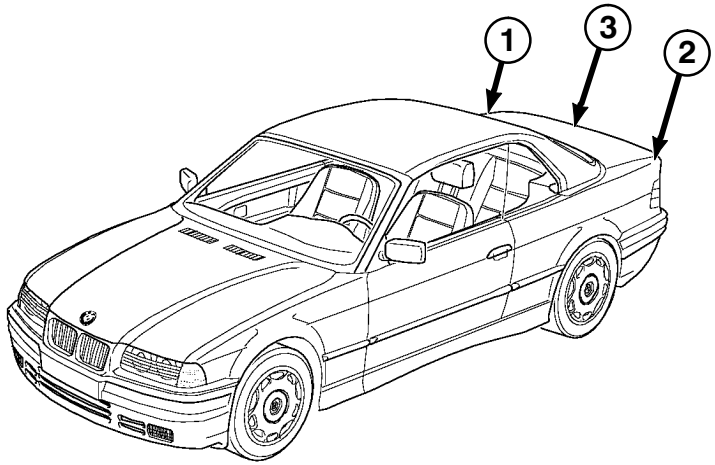
X10070
X10071

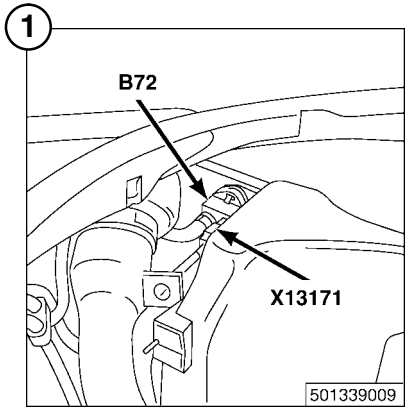


R6252
THROTTLE POSITION SENSOR

X6252

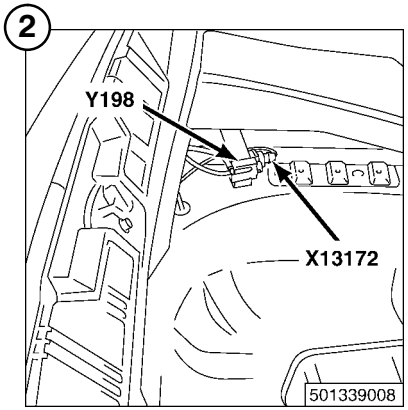
COMPONENT LOCATION VIEWS





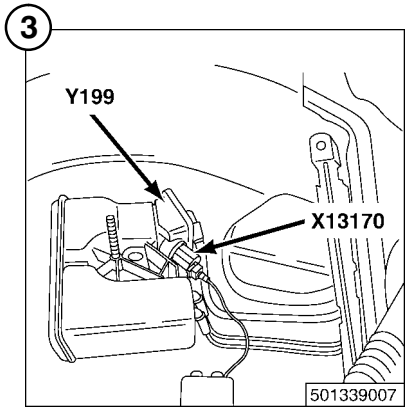
B72
FUEL TANK
PRESSURE
SENSOR

X13171



Y198
EXHAUST GAS
FLAP VALVE

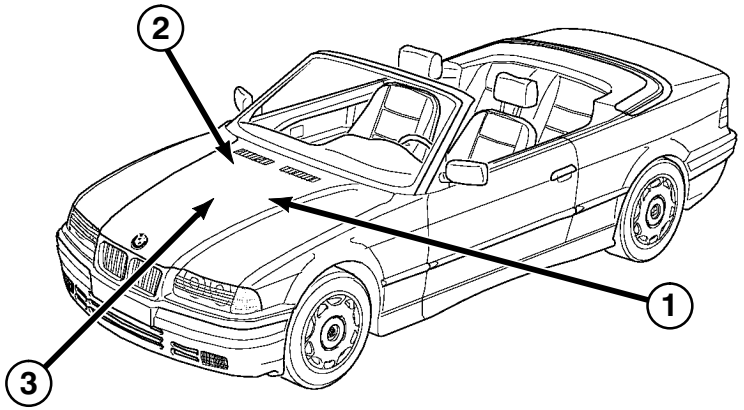
X13172

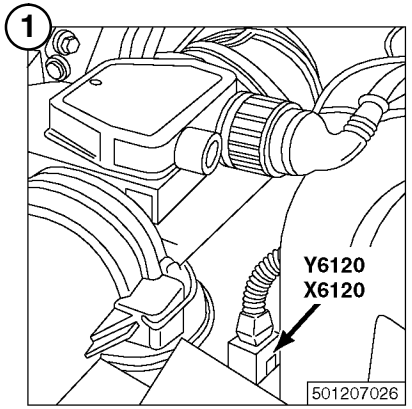


Y199
CARBON
CANISTER VALVE

X13170

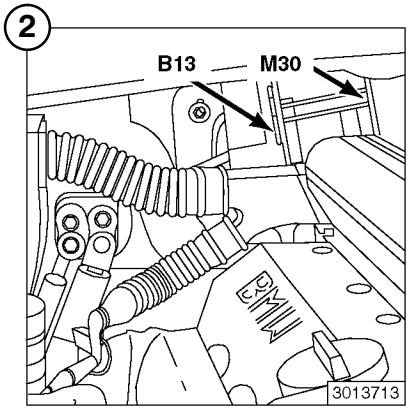
COMPONENT LOCATION VIEWS





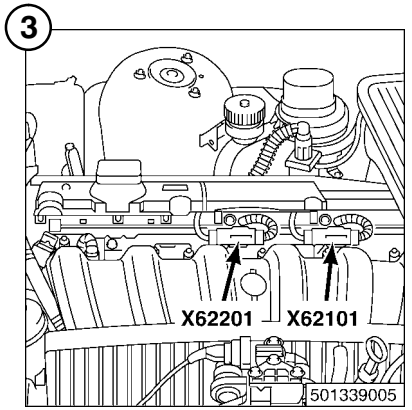
Y6120
EVAPORATIVE
EMISSION VALVE

X6120



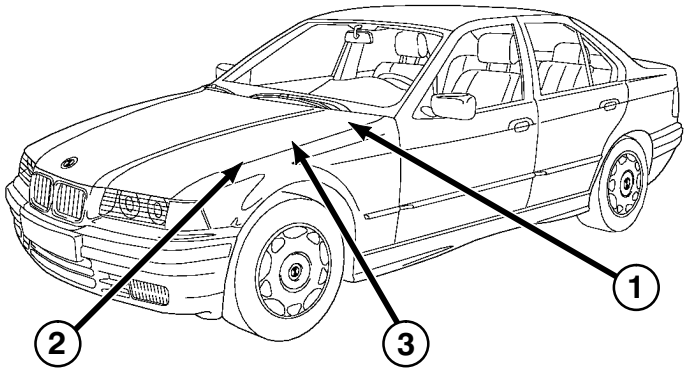
B13
OUTSIDE
TEMPERATURE
SENSOR

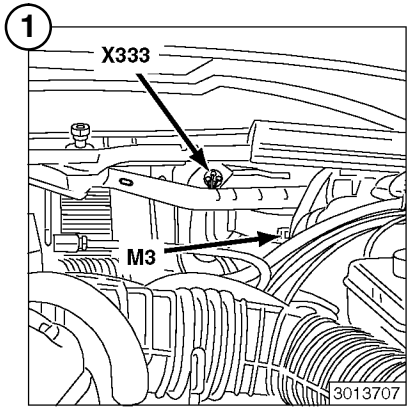
M30
BLOWER MOTOR



X62101
X62201

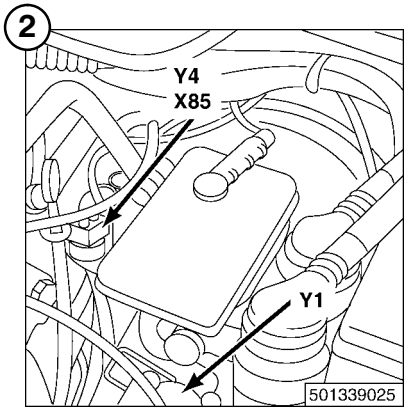
COMPONENT LOCATION VIEWS





M3
WIPER MOTOR

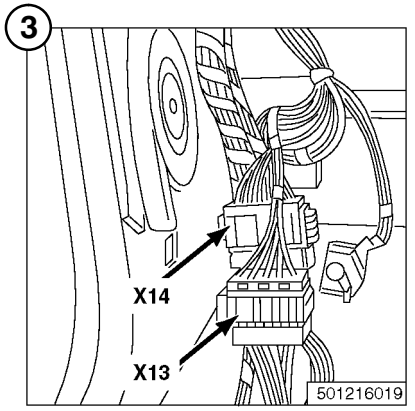
X333



Y1
ABS HYDRAULIC
UNIT

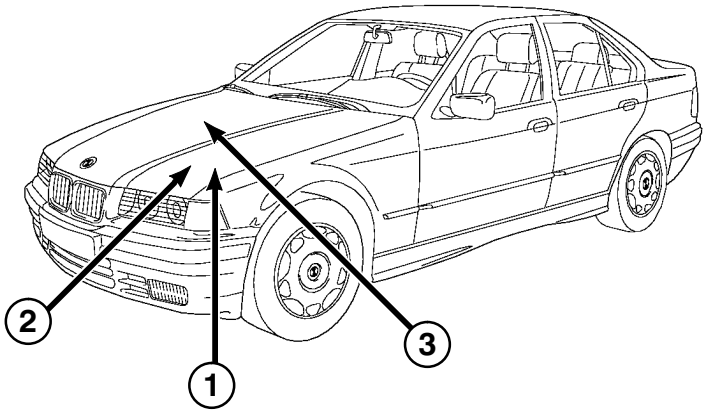
Y4
WATER VALVE
ASSEMBLY

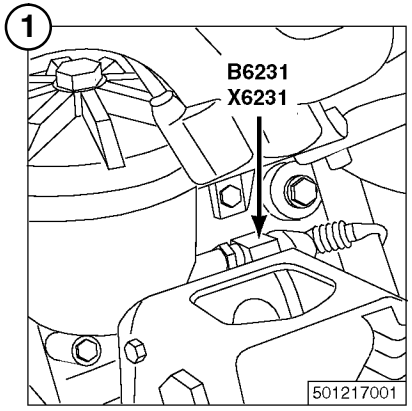
X85



X13
X14

COMPONENT LOCATION VIEWS

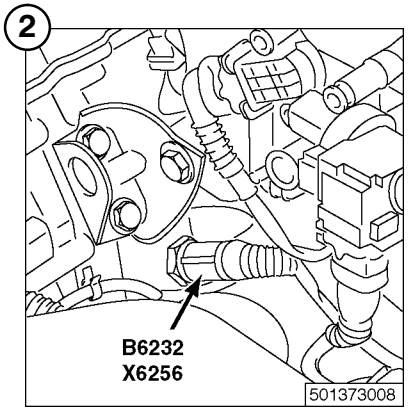




B6231
OIL PRESSURE
SWITCH

X6231

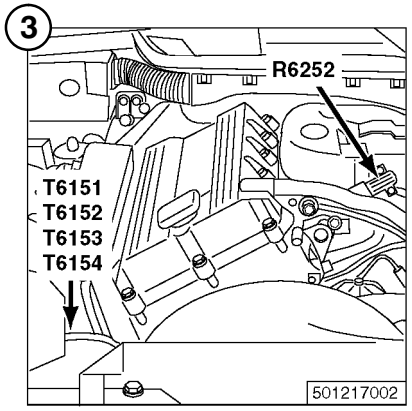
318is



B6232
ENGINE COOLANT
TEMPERATURE
SENSOR

X6256

318is



R6252
THROTTLE
POSITION SENSOR

T6151
CYL. 1 IGNITION
COIL

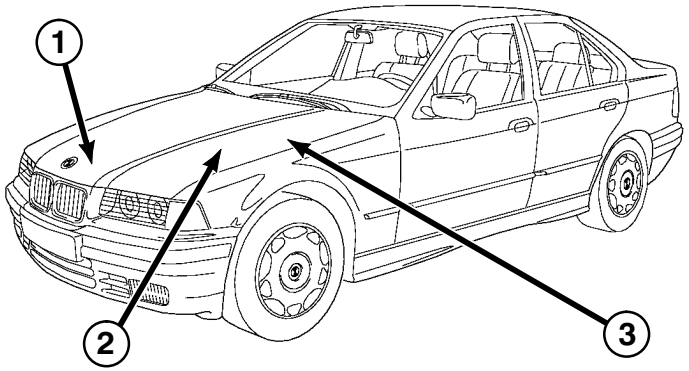
T6152
CYL. 2 IGNITION
COIL

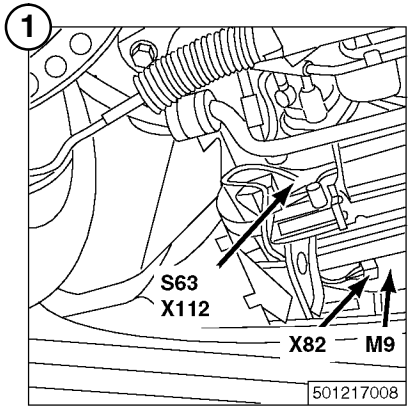
T6153
CYL. 3 IGNITION
COIL

T6154
CYL. 4 IGNITION
COIL

318is

COMPONENT LOCATION VIEWS



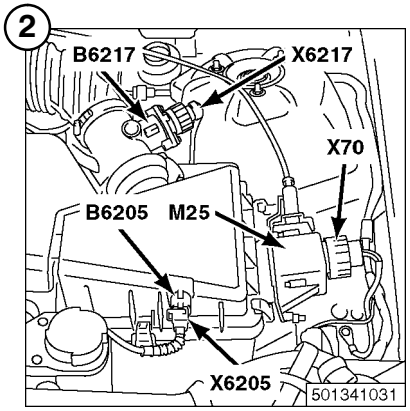


M9
AUXILIARY FAN
MOTOR

S63
ENGINE COOLANT
LEVEL SWITCH

X82
X112

318is

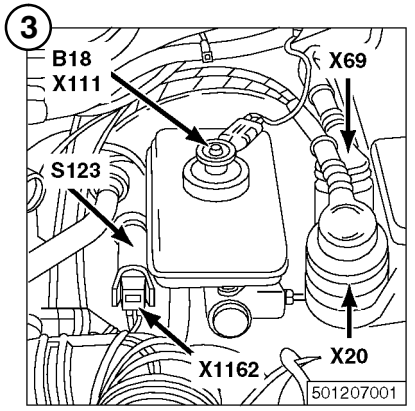


B6205
INTAKE AIR
TEMPERATURE
SENSOR

B6217
HOT FILM AIR
MASS METER

M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70
X6205
X6217

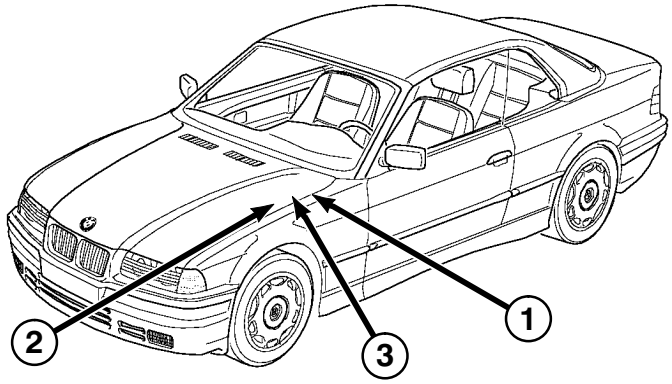


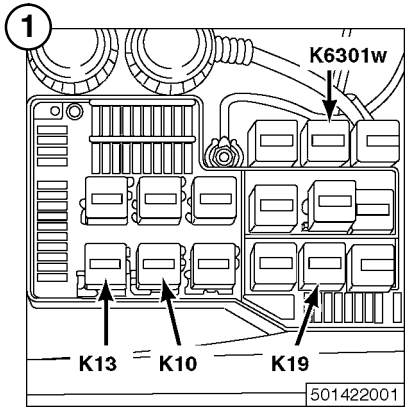
B18
BRAKE FLUID
LEVEL SWITCH

S123
ABS PEDAL
TRAVEL SENSOR

X20
X69
X111
X1162

COMPONENT LOCATION VIEWS



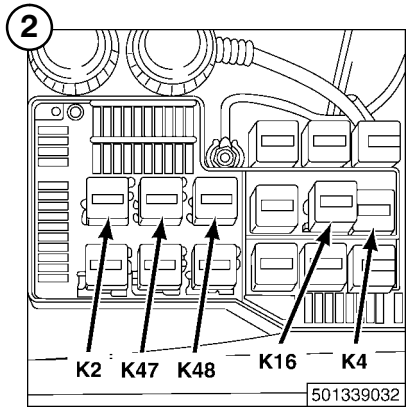


K10
ABS RELAY

K6301w
FUEL PUMP RELAY

K13
REAR DEFOGGER RELAY

K19
COMPRESSOR CONTROL RELAY



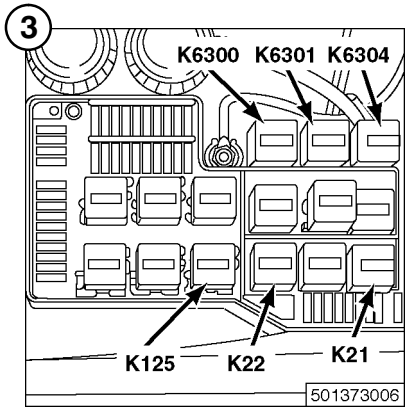
K2
HORN RELAY

K47
FRONT FOG LIGHT RELAY

K4
BLOWER RELAY

K48
LOW BEAM LIGHT RELAY

K16
HAZARD FLASHER RELAY



K21
NORMAL SPEED RELAY

K6300
ENGINE CONTROL MODULE RELAY

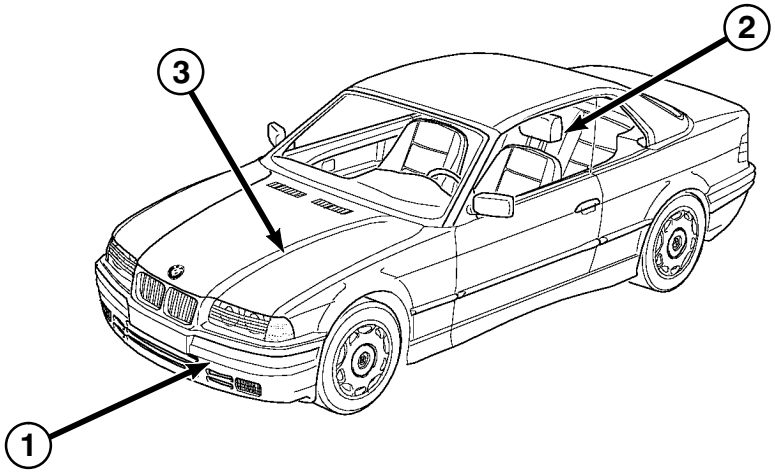
K22
HIGH SPEED RELAY

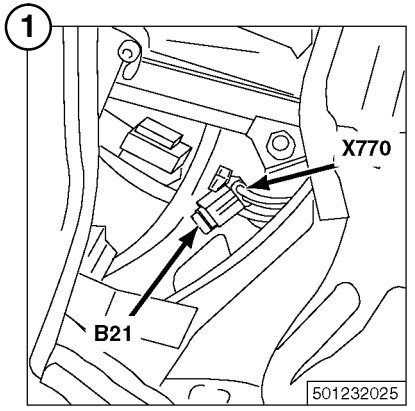
K6301
CYL. 1–6 FUEL PUMP RELAY

K125
ABS PUMP MOTOR RELAY, TIMED

K6304
SECONDARY AIR PUMP RELAY

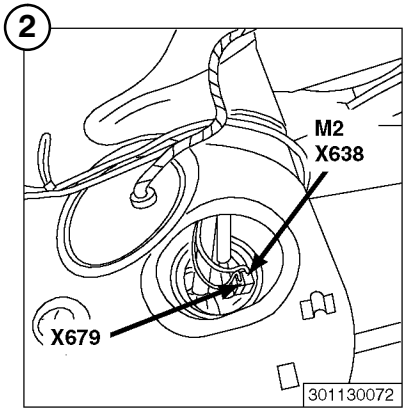
COMPONENT LOCATION VIEWS





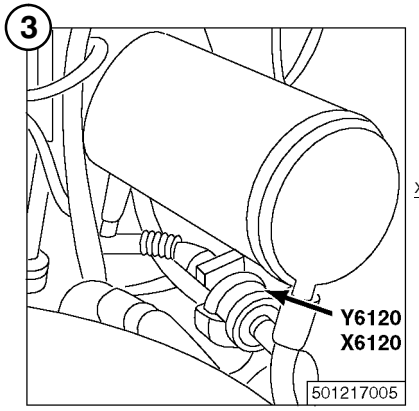
B21
ON–BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



M2
FUEL PUMP

X638
X679

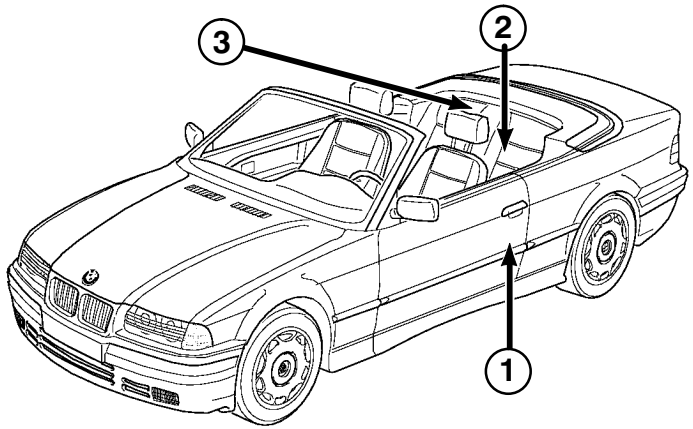


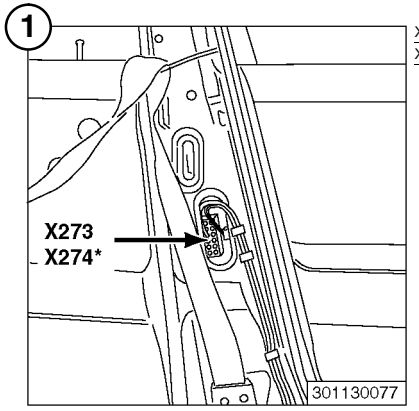
Y6120
EVAPORATIVE
EMISSION VALVE

X6120

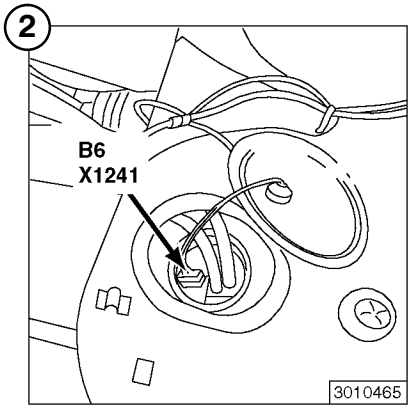
318is

COMPONENT LOCATION VIEWS



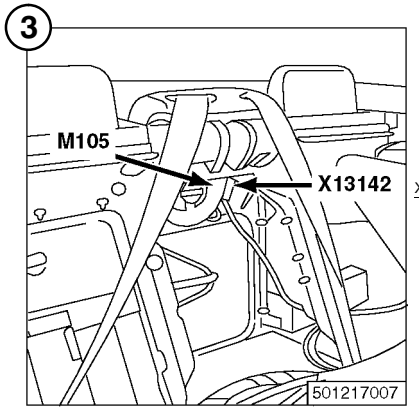


X273
X274



B6
FUEL LEVEL
SENSOR

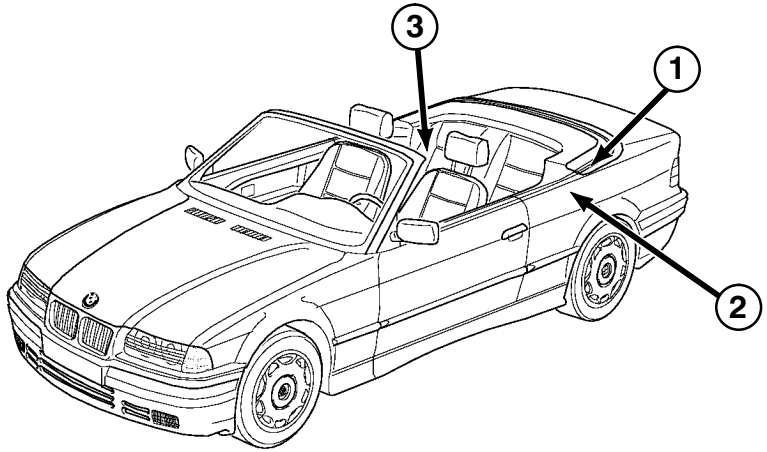
X1241

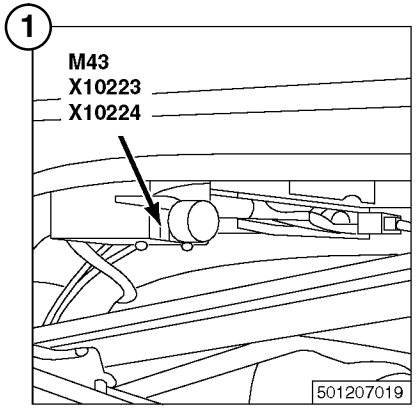


M105
REAR WINDOW
BLOWER

X13142

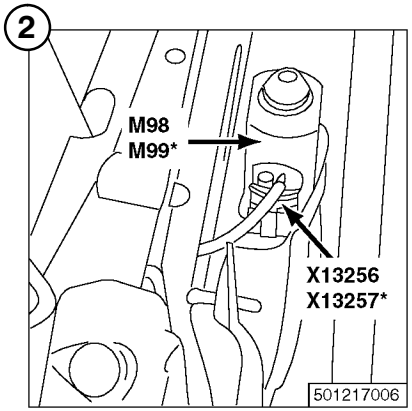
COMPONENT LOCATION VIEWS





M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

X10223
X10224



M98
LEFT REAR
WINDOW MOTOR

M99 *
RIGHT REAR
WINDOW MOTOR

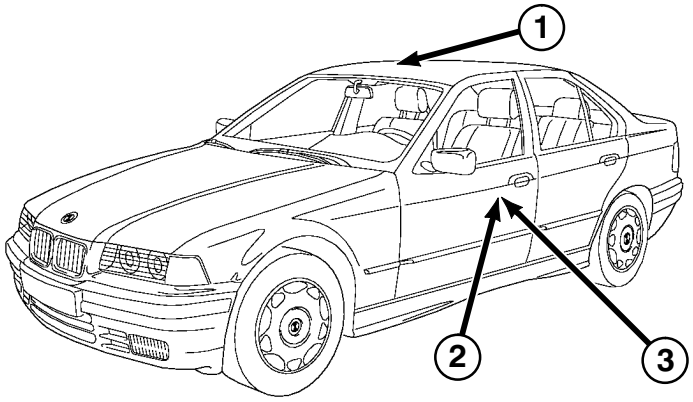
X13256
X13257 *

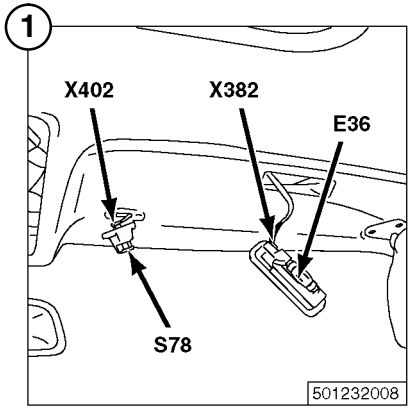
* RH SIMILAR



X11205

COMPONENT LOCATION VIEWS

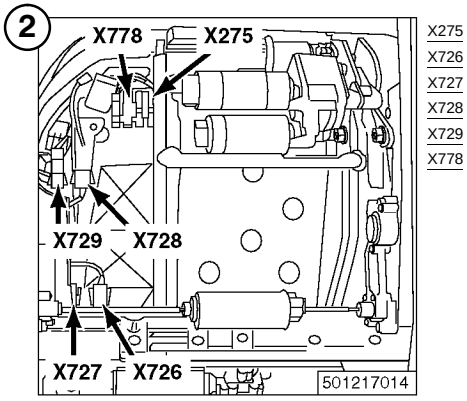




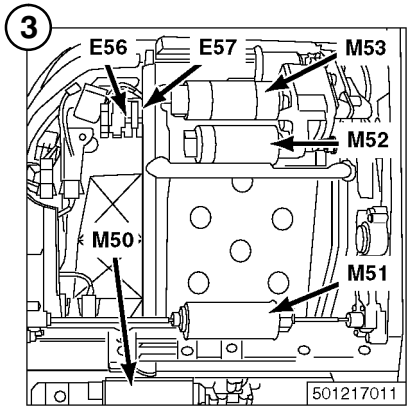
E36
PASSENGER'S MAKE–UP MIRROR LIGHT

S78
PASSENGER'S MAKE–UP MIRROR SWITCH

X382
X402



X275
X726
X727
X728
X729
X778



E56
DRIVER'S SEAT-BACK HEATER

E57
DRIVER'S SEAT HEATER

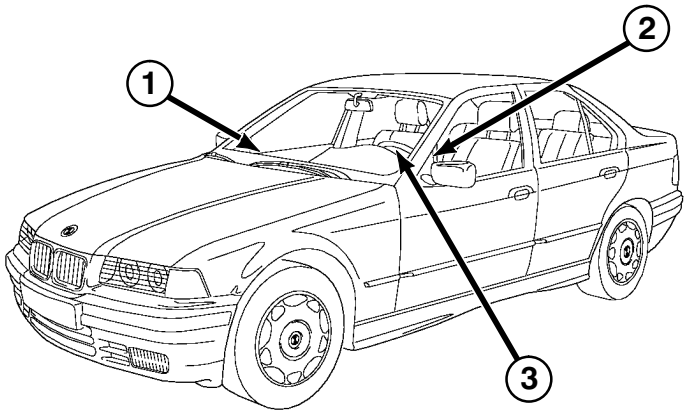
M50
DRIVER'S SEAT CUSHION TILT MOTOR

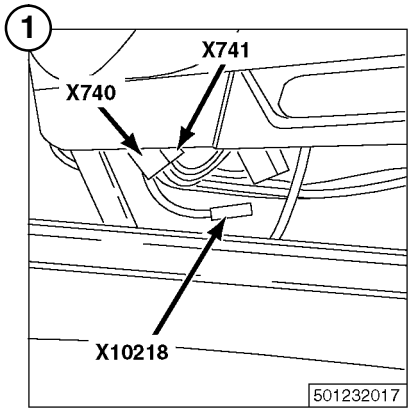
M51
DRIVER'S SEAT MOVEMENT MOTOR

M52
DRIVER'S SEAT HEIGHT MOTOR

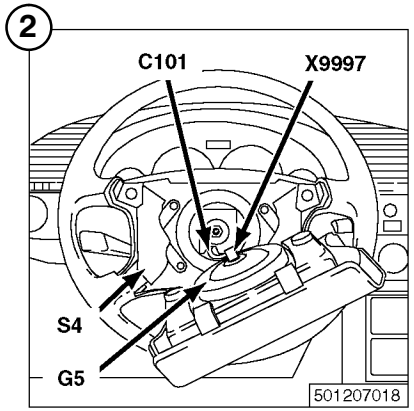
M53
DRIVER'S SEAT-BACK RECLINER MOTOR

COMPONENT LOCATION VIEWS





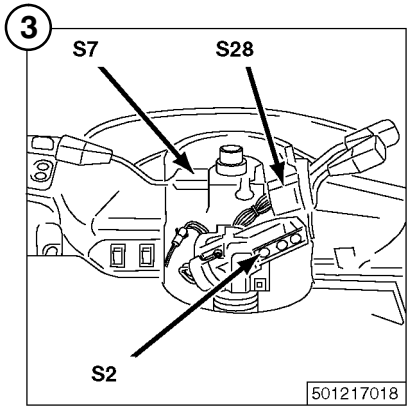
X740
X741
X10218



C101 X9997
CONTACT RING

G5
DRIVER'S AIR BAG
GAS GENERATOR

S4
HORN SWITCH

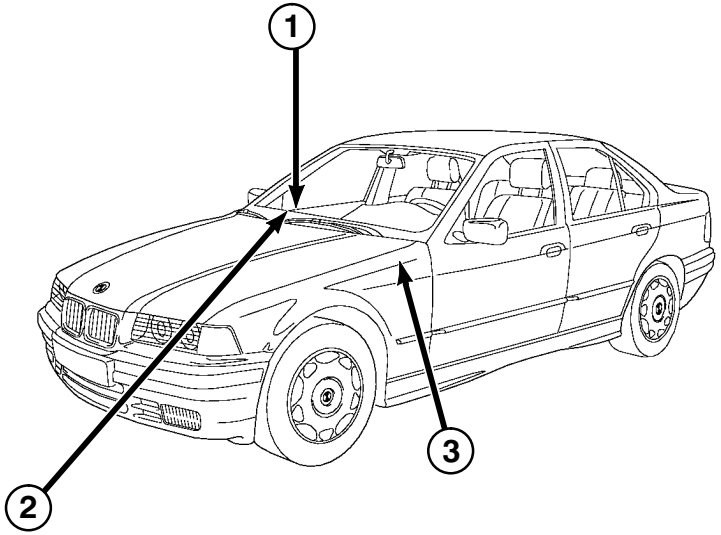


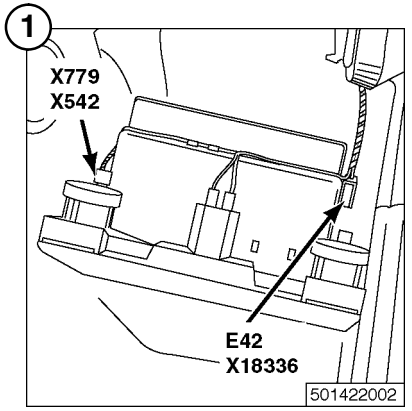
S2
IGNITION SWITCH

S7
COMBINATION
SWITCH

S28
CRUISE CONTROL
SWITCH

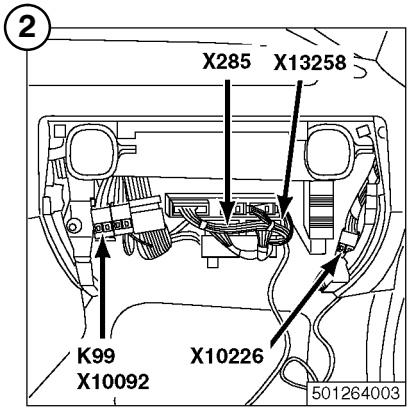
COMPONENT LOCATION VIEWS





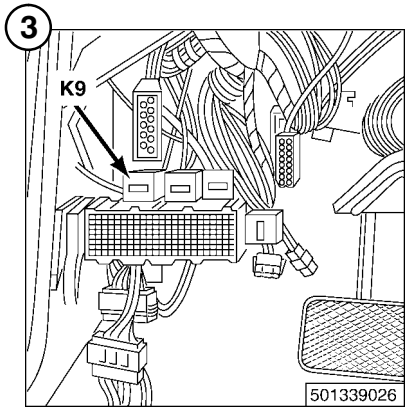
E42
GLOVE BOX LIGHT

X542
X779
X18336



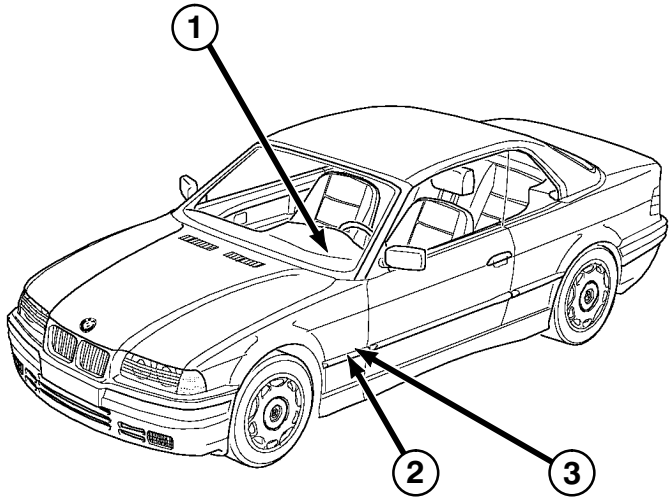
K99
REAR WINDOW
BLOWER RELAY

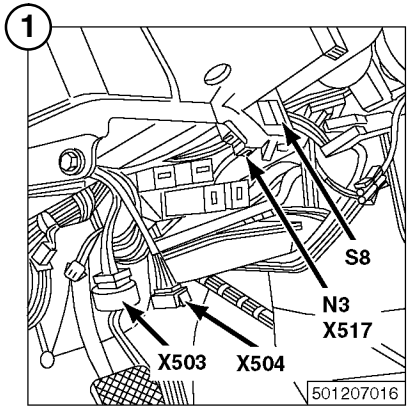
X285
X10092
X10226
X13258



K9
UNLOADER RELAY,
TERMINAL 15

COMPONENT LOCATION VIEWS

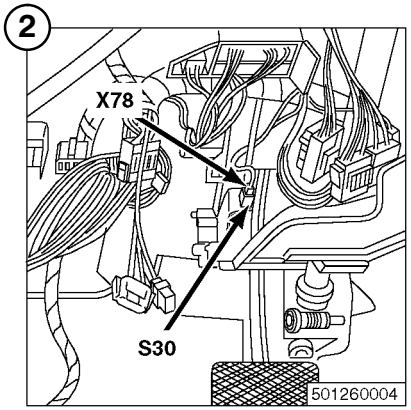




N3
DIMMER

S8
LIGHT SWITCH

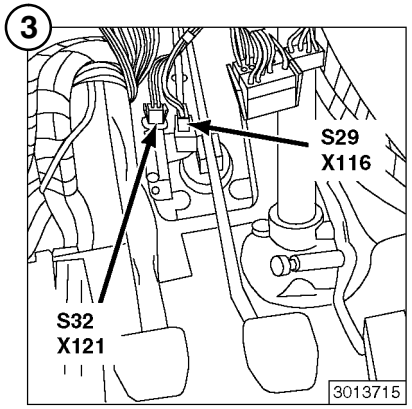
X503
X504
X517



S30
BRAKE LIGHT
SWITCH

X78

AUTOMATIC



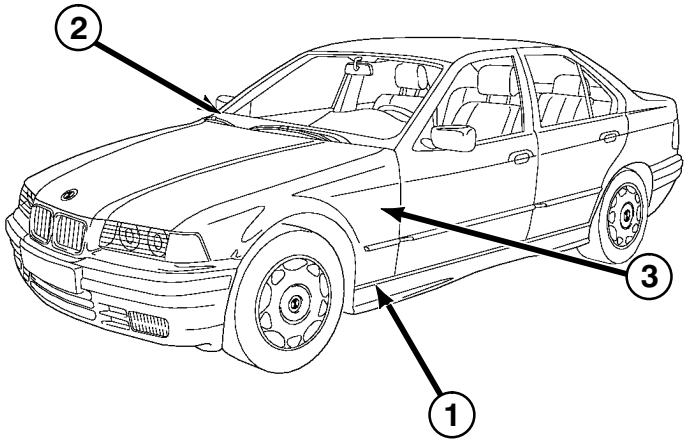
S29
BRAKE LIGHT
SWITCH

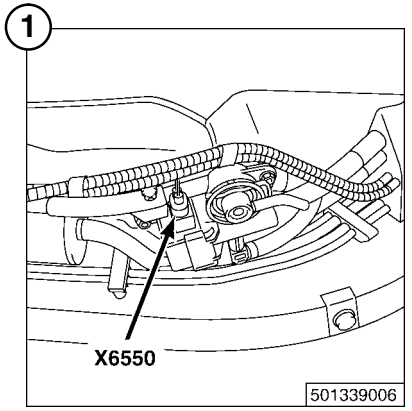
S32
CLUTCH SWITCH

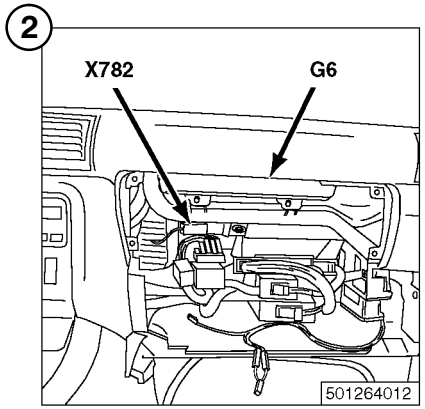
X116
X121

MANUAL

COMPONENT LOCATION VIEWS

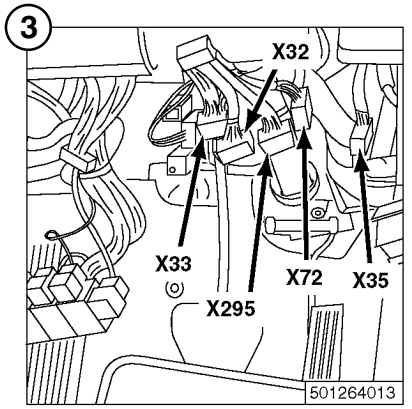






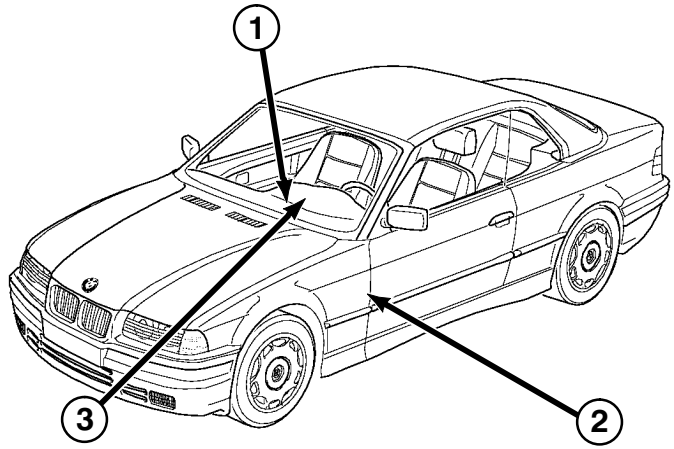
G6
PASSENGER'S AIR BAG GAS GENERATOR

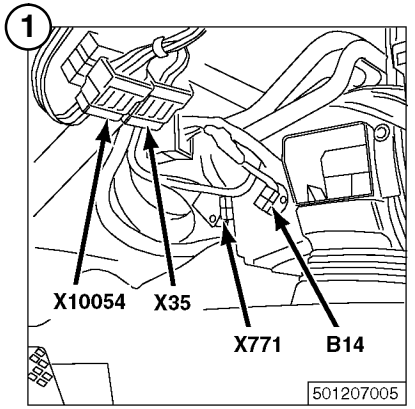
X782



X32
X33
X35
X72
X295

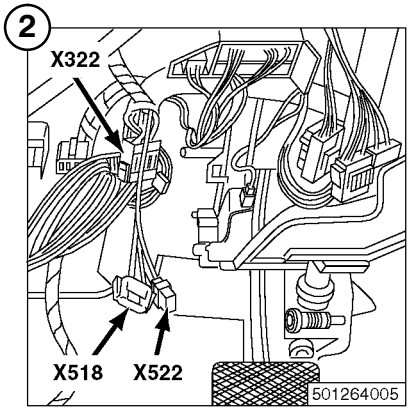
COMPONENT LOCATION VIEWS



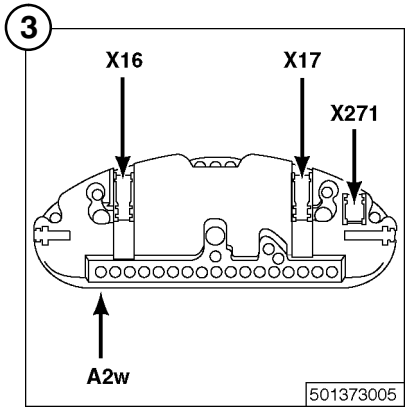


B14
EVAPORATOR
TEMPERATURE
SENSOR

X35
X771
X10054



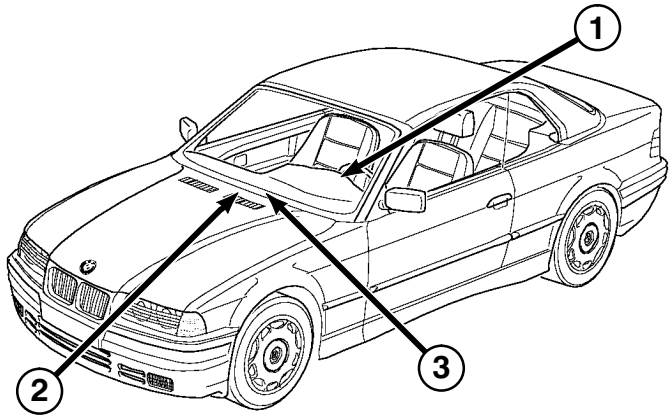
X322
X518
X522

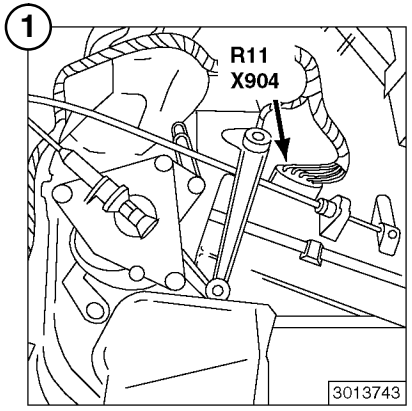


A2w
INSTRUMENT
CLUSTER

X16
X17
X271

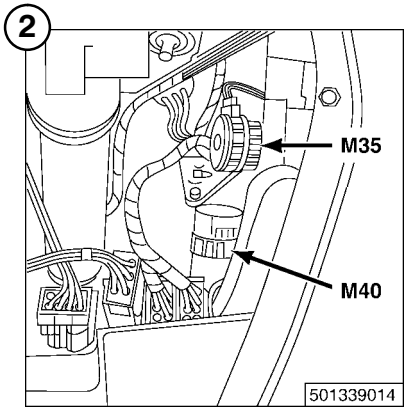
COMPONENT LOCATION VIEWS





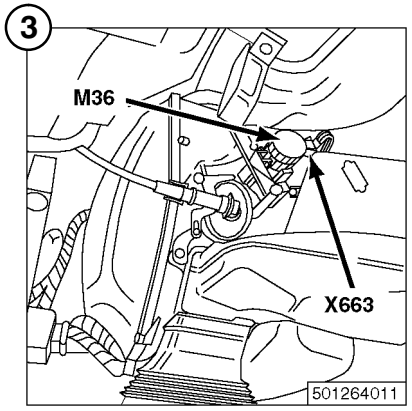
R11
BLOWER
RESISTORS

X904



M35
DEFROSTER FLAP
MOTOR

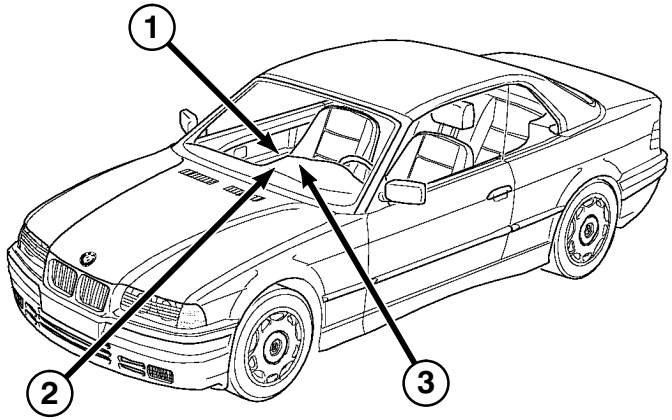
M40
RECIRCULATION
FLAP MOTOR

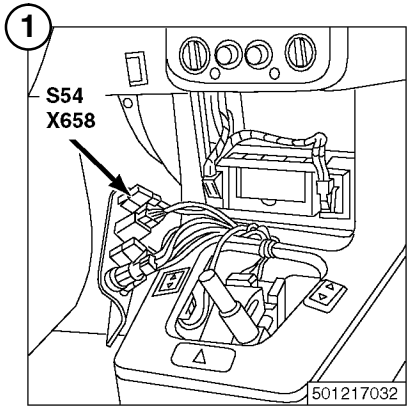


M36
FRESH AIR FLAP
MOTOR

X663

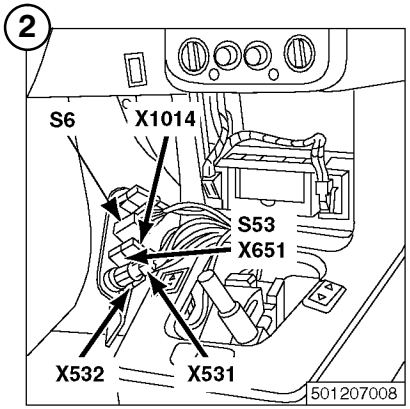
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

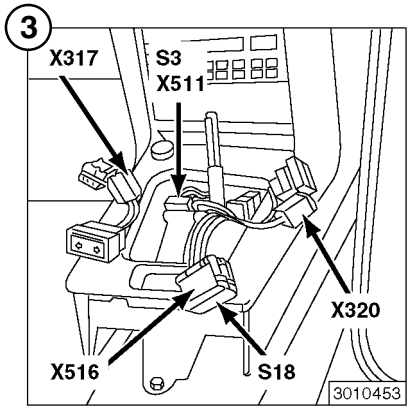
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014

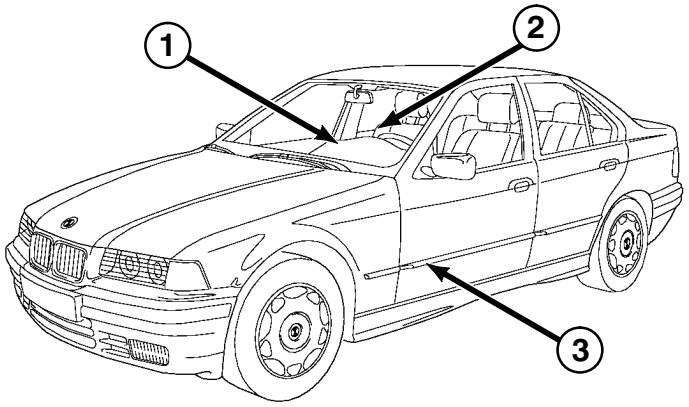


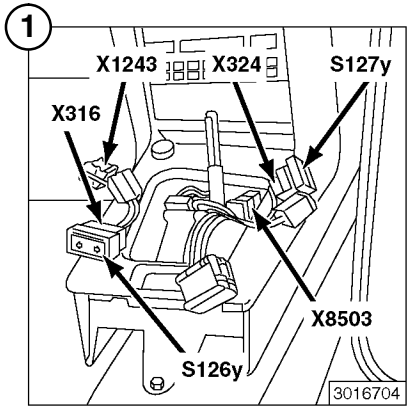
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

S18
HAZARD SWITCH

X317
X320
X511
X516

COMPONENT LOCATION VIEWS

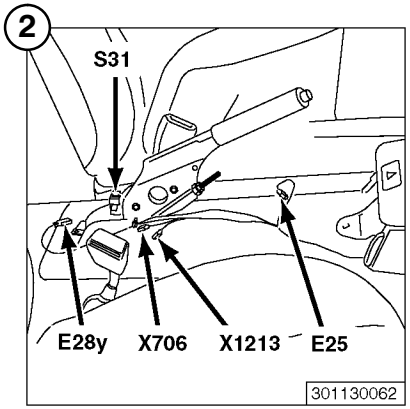




S126y
DRIVER'S POWER WINDOW SWITCH

S127y
PASSENGER'S POWER WINDOW SWITCH

X316
X324
X1243
X8503

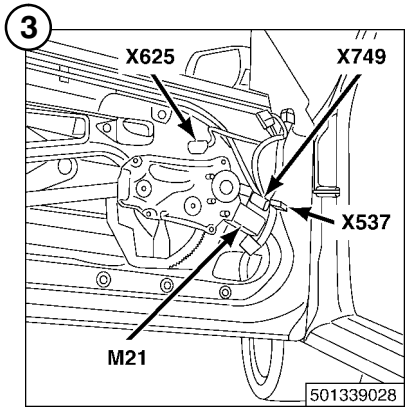


E25
FRONT ASHTRAY LIGHT

X706
X1213

E28y
REAR ASHTRAY LIGHT

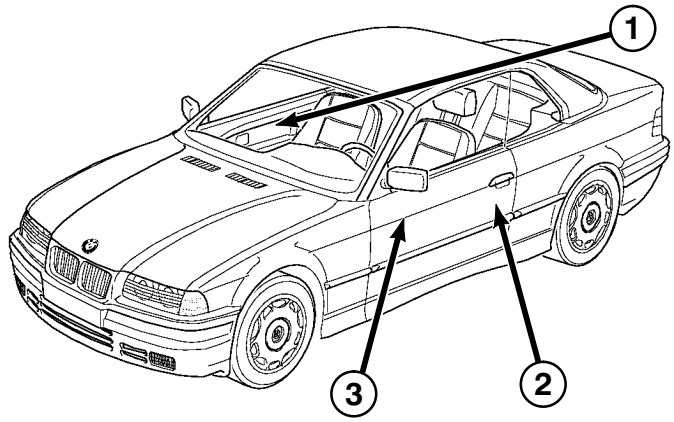
S31
PARK BRAKE SWITCH

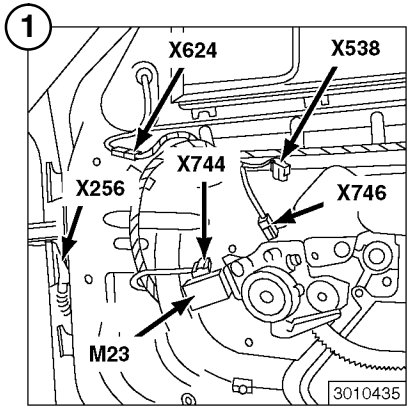


M21
DRIVER'S WINDOW MOTOR

X537
X625
X749

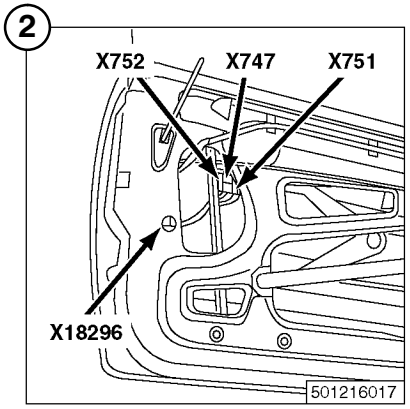
COMPONENT LOCATION VIEWS



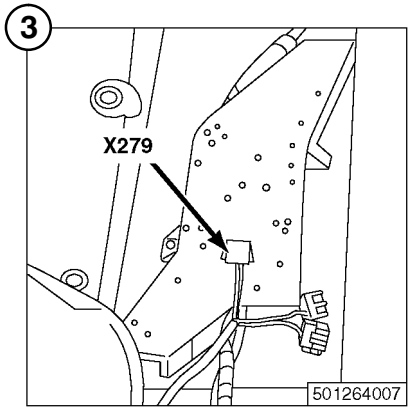


M23
PASSENGER'S
WINDOW MOTOR

X256
X538
X624
X744
X746

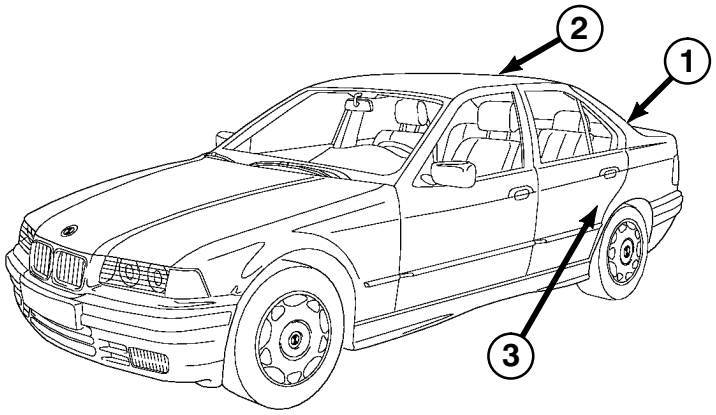


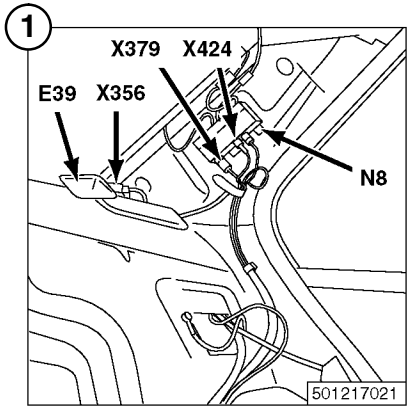
X747
X751
X752
X18296



X279

COMPONENT LOCATION VIEWS

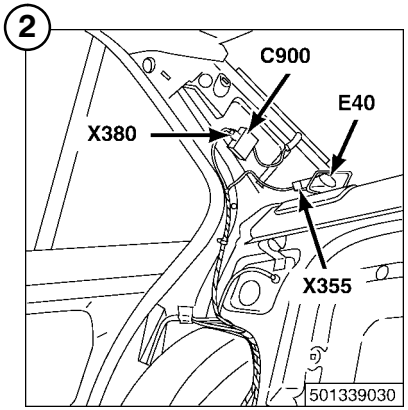




E39
LEFT REAR
INTERIOR LIGHT

N8
ANTENNA
AMPLIFIER AM/FM

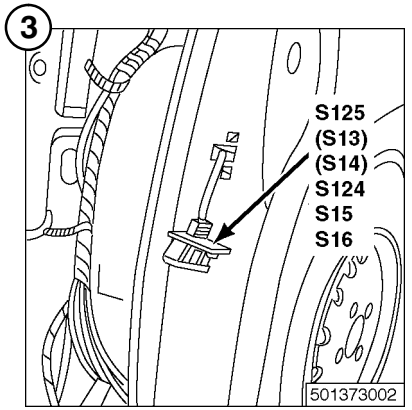
X356
X379
X424



C900
SUPPRESSION
FILTER

E40
RIGHT REAR
INTERIOR LIGHT

X355
X380



S13
PASSENGER'S
DOOR JAMB
SWITCH

S14
DRIVER'S DOOR
JAMB SWITCH

S15
REAR RIGHT DOOR
JAMB SWITCH

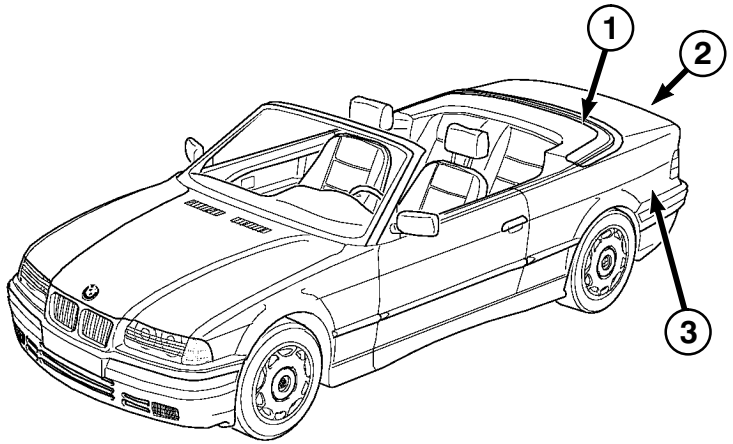
S16
LEFT REAR DOOR
JAMB SWITCH

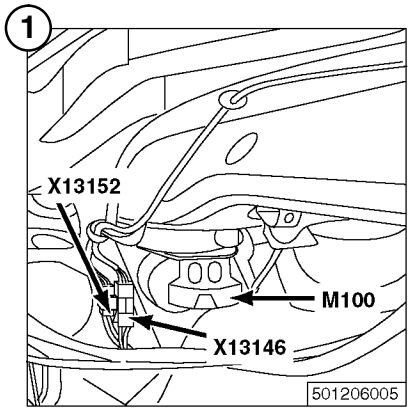
S124 *
RIGHT REAR DOOR
CONTACT

S125 *
LEFT REAR DOOR
CONTACT

* WITH ALPINE

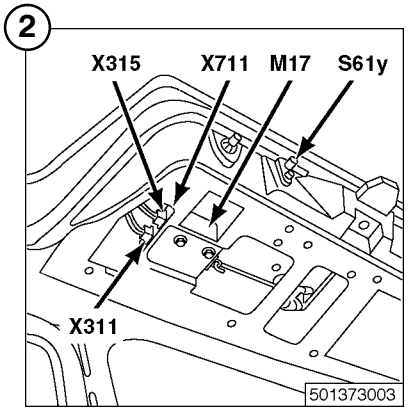
COMPONENT LOCATION VIEWS





M100
CONVERTIBLE TOP
STORAGE LID
MOTOR

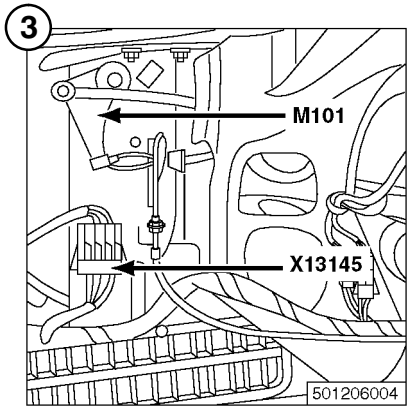
X13146
X13152



M17
LUGGAGE
COMPARTMENT
LOCK MOTOR

S61y
LUGGAGE
COMPARTMENT
LIGHT SWITCH

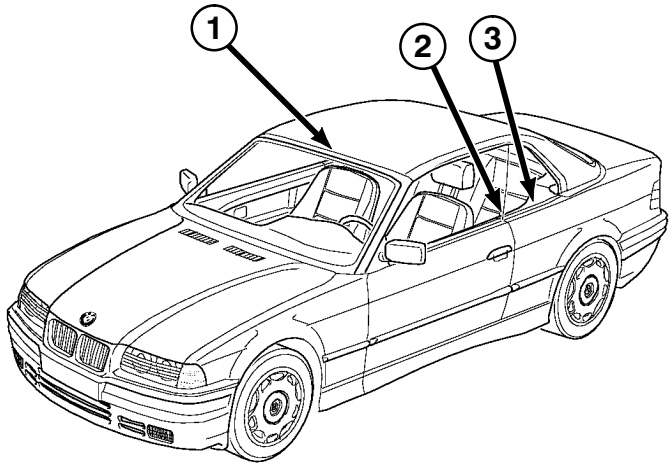
X311
X315
X711



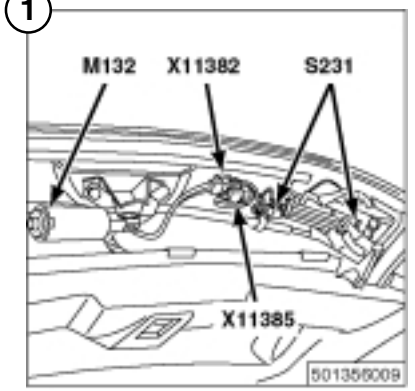
M101
CONVERTIBLE TOP
MOTOR

X13145

COMPONENT LOCATION VIEWS



1

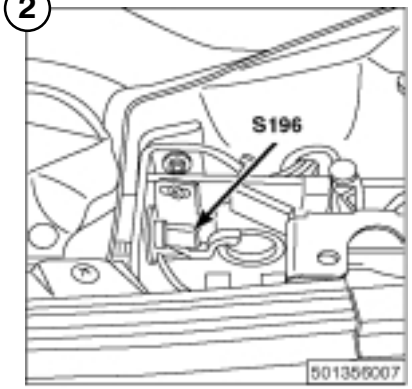


M132
WINDSCREEN
COWL PANEL LOCK
MOTOR

S231
WINDSCREEN
COWL PANEL LOCK
MICRO SWITCH

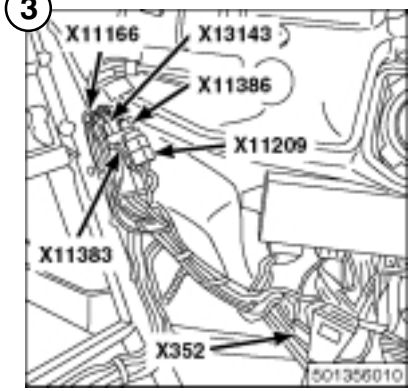
X11382
X11385

2



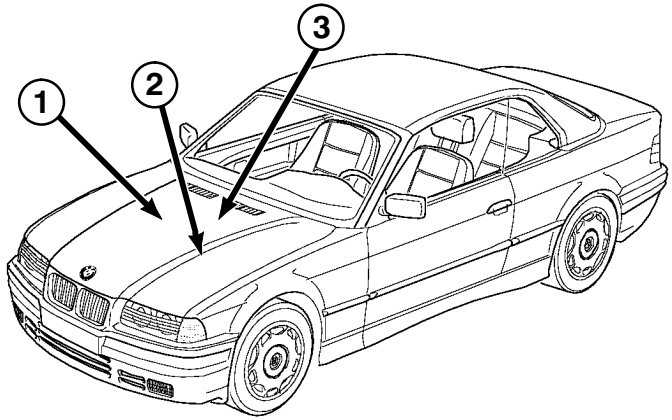
S196
REAR WINDOW
BLOWER MICRO
SWITCH

3

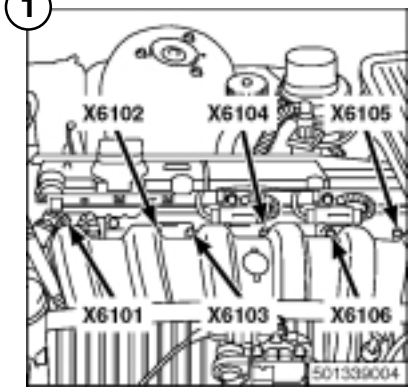


X352
X11166
X11209
X11383
X11386
X13143

COMPONENT LOCATION VIEWS

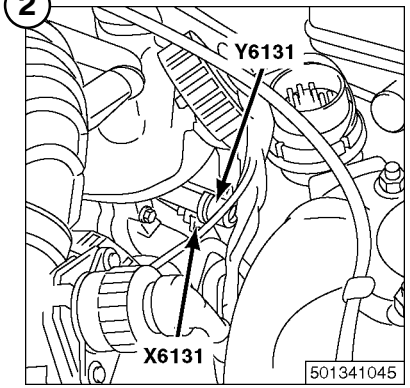


1



X6101
X6102
X6103
X6104
X6105
X6106

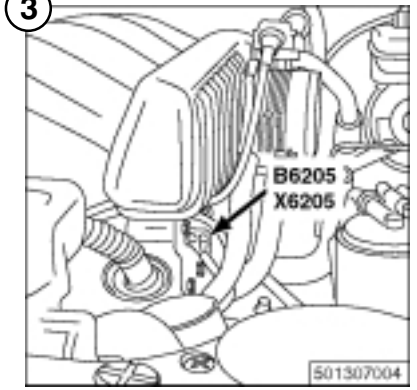
2



Y6131
INTAKE AIR RES-
ONANCE CHANGE-
OVER VALVE

X6131

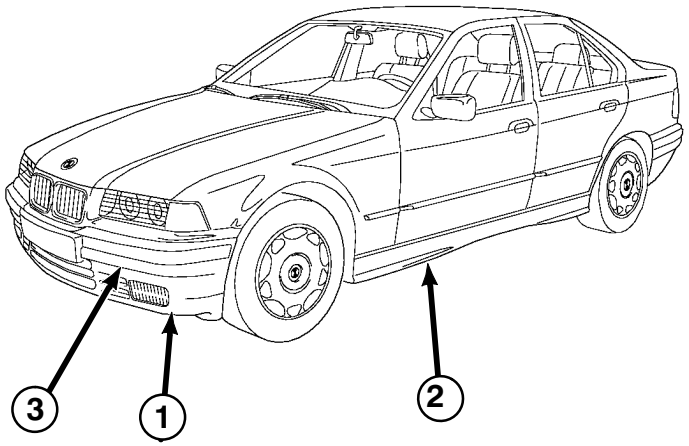
3

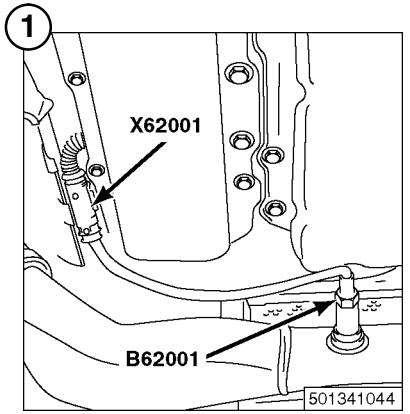


B6205
INTAKE AIR
TEMPERATURE
SENSOR

X6205

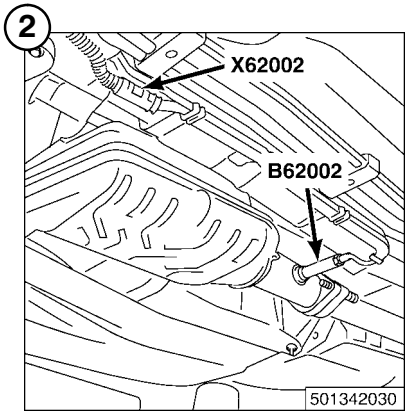
COMPONENT LOCATION VIEWS





B62001
OXYGEN SENSOR
(IN FRONT OF
CATALYTIC
CONVERTER)

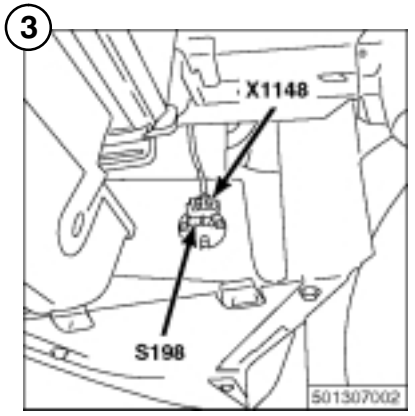
X62001



B62002
OXYGEN SENSOR
(BEHIND
CATALYTIC
CONVERTER)

X62002

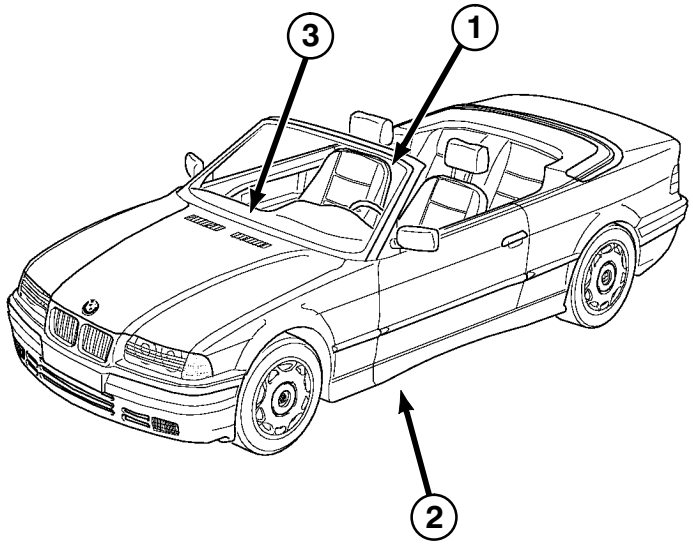
318tds



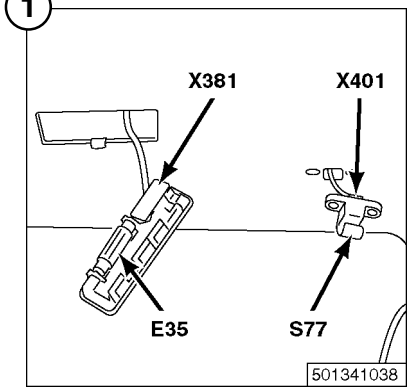
S198
JET HEATER
THERMOSWITCH

X1148

COMPONENT LOCATION VIEWS



1

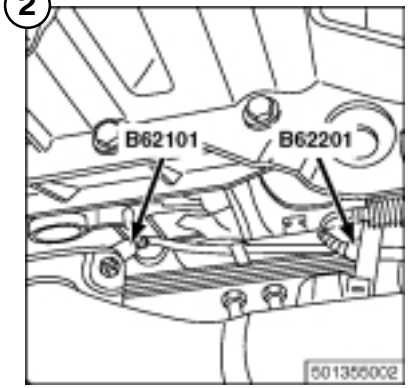


E35
DRIVER'S
MAKE–UP MIRROR
LIGHT

S77
DRIVER'S
MAKE–UP MIRROR
SWITCH

X381
X401

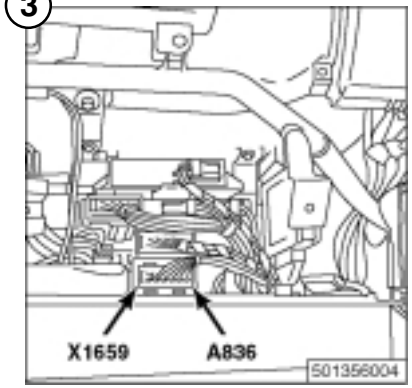
2



B62101
OXYGEN SENSOR I
(IN FRONT OF
CATALYTIC
CONVERTER)

B62201
OXYGEN SENSOR
II (IN FRONT OF
CATALYTIC
CONVERTER)

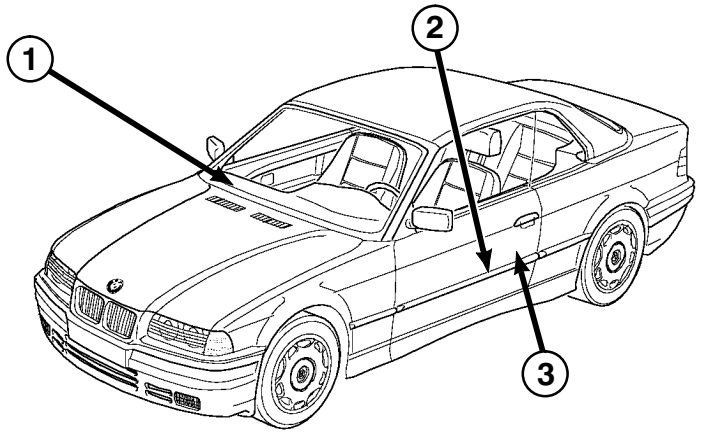
3

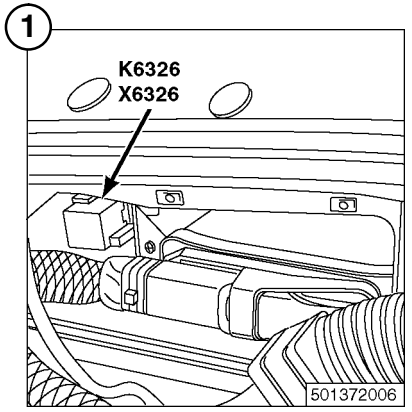


A836
ELECTRONIC
IMMOBILIZER
CONTROL MODULE
(EWS II)

X1659

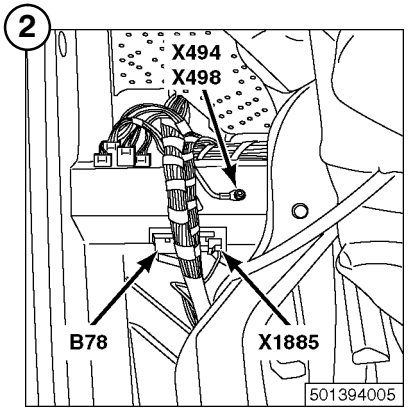
COMPONENT LOCATION VIEWS





K6326
UNLOADER RELAY,
TERMINAL 15

X6326

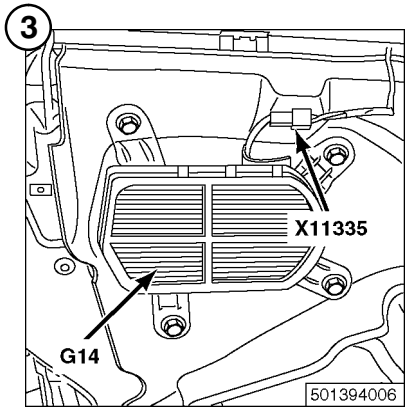


B78
DRIVER'S SIDE
IMPACT SENSOR

X1885

X494
GROUND

X498
GROUND



G14
LEFT SIDE AIR BAG
GAS GENERATOR

X11335

8000.0 SPLICE LOCATION VIEWS

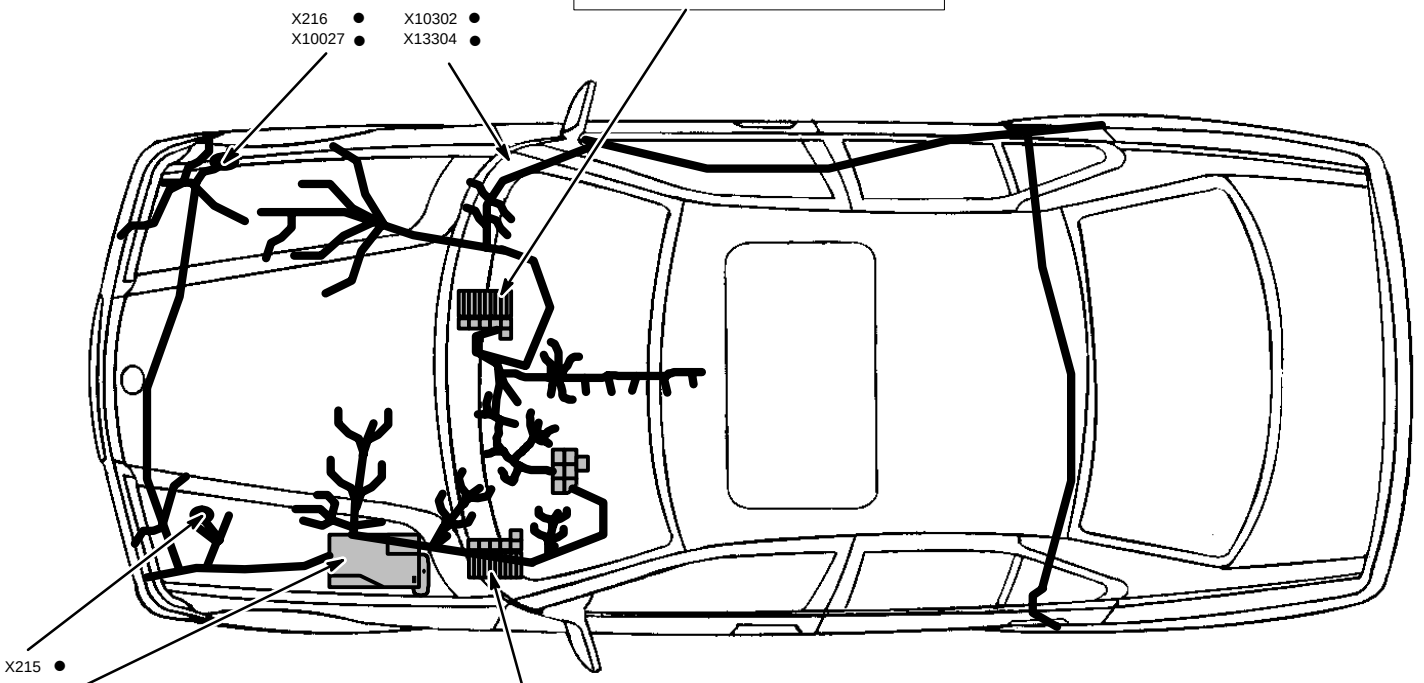
SPLICE	HARNESS	PAGE NUMBER
X181–X276	FRONT	8000.0-02
X313–X314	REAR	8000.0-03
X313–X314	REAR, CONVERTIBLE	8000.0-04
X428–X481	REAR	8000.0-03
X428–X481	REAR, CONVERTIBLE	8000.0-04
X530–X595	FRONT	8000.0-02
X805	REAR	8000.0-03
X805	REAR, CONVERTIBLE	8000.0-04
X818	IHKA	NOT SHOWN
X824–X830	RADIO	NOT SHOWN
X834	LH REAR DOOR	NOT SHOWN
X835	RH REAR DOOR	NOT SHOWN
X849	DRIVER'S DOOR	NOT SHOWN
X876–X878	RADIO	NOT SHOWN
X906	IHKA	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015–X1164	FRONT	8000.0-02
X1149	FRONT	8000.0-02
X1167	REAR	8000.0-03
X1168–X1192	FRONT	8000.0-02
X1212–X1218	REAR	8000.0-03
X1212–X1235	REAR, CONVERTIBLE	8000.0-04
X1225–X1233	FRONT	8000.0-02
X1226–X1235	REAR	8000.0-03
X1258	FRONT	8000.0-02
X1263	REAR, CONVERTIBLE	8000.0-04
X1263–X1299	REAR	8000.0-03
X1382–X1383	RADIO	NOT SHOWN
X1387–X1396	REAR	8000.0-03
X1387–X1396	REAR, CONVERTIBLE	8000.0-04
X1396	REAR	8000.0-03
X1541–X1693	FRONT	8000.0-02
X1894–X2152	REAR	8000.0-03
X2152	REAR, CONVERTIBLE	8000.0-04
X6410–X6492	M44 ENGINE	8000.0-05
X6411–X6492	M3 ENGINE	8000.0-06
X6411–X6492	M52 ENGINE	8000.0-07
X6810–X6900	M3 ENGINE	8000.0-06
X6810–X6900	M52 ENGINE	8000.0-07
X6820–X6900	M44 ENGINE	8000.0-05
X7845–X7846	M44 ENGINE	8000.0-05
X8000–X8576	M3 ENGINE	8000.0-06
X8000–X8776	M52 ENGINE	8000.0-07
X8004–X8576	M44 ENGINE	8000.0-05
X10007–X10104	FRONT	8000.0-02
X10020	FRONT	8000.0-02
X10118	REAR	8000.0-03
X10118	REAR, CONVERTIBLE	8000.0-04
X10120–X10123	FRONT	8000.0-02
X10169	M44 ENGINE	8000.0-05
X10189	REAR, CONVERTIBLE	8000.0-04
X10191–X10192	FRONT	8000.0-02
X10228–X10292	REAR, CONVERTIBLE	8000.0-04
X10231–X10252	FRONT	8000.0-02
X10269	REAR	8000.0-03
X10269	REAR, CONVERTIBLE	8000.0-04

SPLICE LOCATION VIEWS

SPLICE	HARNESS	PAGE NUMBER
X10302	FRONT	8000.0-02
X11264	FRONT	8000.0-02
X11269	REAR	8000.0-03
X11279	REAR, CONVERTIBLE	8000.0-04
X11282–X11381	FRONT	8000.0-02
X13000	FRONT	8000.0-02
X13002–X13011	REAR	8000.0-03
X13002–X13011	REAR, CONVERTIBLE	8000.0-04
X13021–X13115	FRONT	8000.0-02
X13127–X13273	REAR, CONVERTIBLE	8000.0-04
X13129–X13173	REAR	8000.0-03
X13282	FRONT	8000.0-02
X13289	REAR	8000.0-03
X13289	REAR, CONVERTIBLE	8000.0-04
X13300–X13304	FRONT	8000.0-02
X13309	REAR	8000.0-03
X13309	REAR, CONVERTIBLE	8000.0-04
X13311–X13313	FRONT	8000.0-02
X18160–X18161	IHKA	NOT SHOWN
X18165–X18784	FRONT	8000.0-02
X18785–X18799	REAR, CONVERTIBLE	8000.0-04
X19513–X19515	RADIO	NOT SHOWN

SPLICE LOCATION VIEWS

FRONT HARNESS



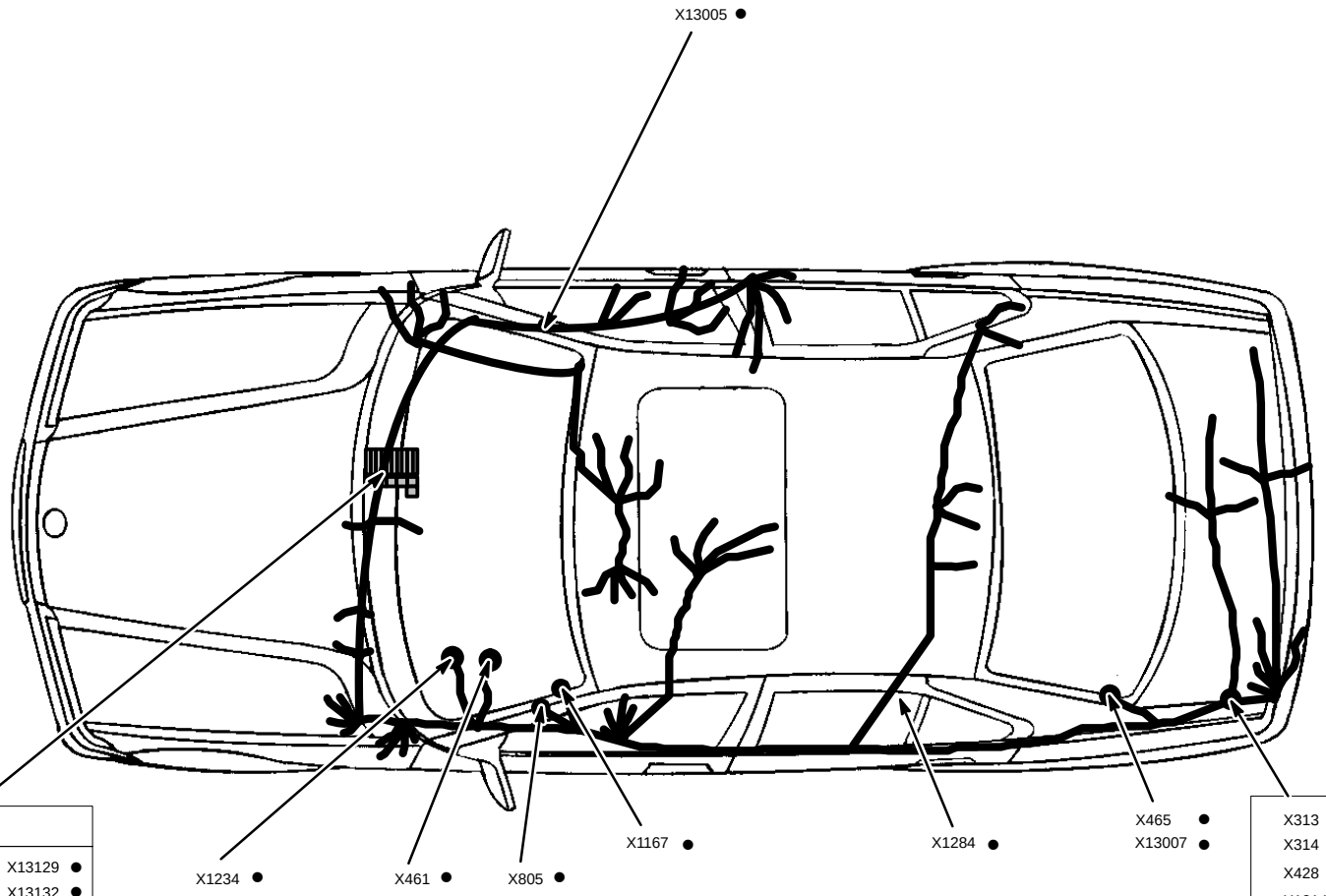
SPLICE PANEL		
X195	X10009	X13115
X218	X10064	X13282
X557	X11282	
X1149	X11283	

SPLICE PANEL						
X184	X246	X1036	X1164	X10007	X11284	
X185	X276	X1055	X1168	X10020	X13000	
X186	X530	X1068	X1172	X10021	X13300	
X187	X595	X1073	X1177	X10022	X13302	
X203	X1015	X1076	X1186	X10055	X18783	
X223	X1022	X1077	X1192	X10029	X18784	
X238	X1027	X1152	X1233	X10100		
X245	X1028	X1163	X1541	X10192		

SPLICE PANEL						
X181	X228	X1079	X1686	X10028	X10191	X13313
X182	X1019	X1080	X1687	X10060	X10231	X18165
X183	X1029	X1085	X1689	X10061	X10252	
X188	X1047	X1179	X1691	X10090	X11264	
X191	X1065	X1182	X1693	X10103	X11381	
X196	X1066	X1225	X10008	X10104	X13021	
X197	X1067	X1258	X10011	X10120	X13311	
X213	X1069	X1682	X10024	X10123	X13312	

SPLICE LOCATION VIEWS

REAR HARNESS

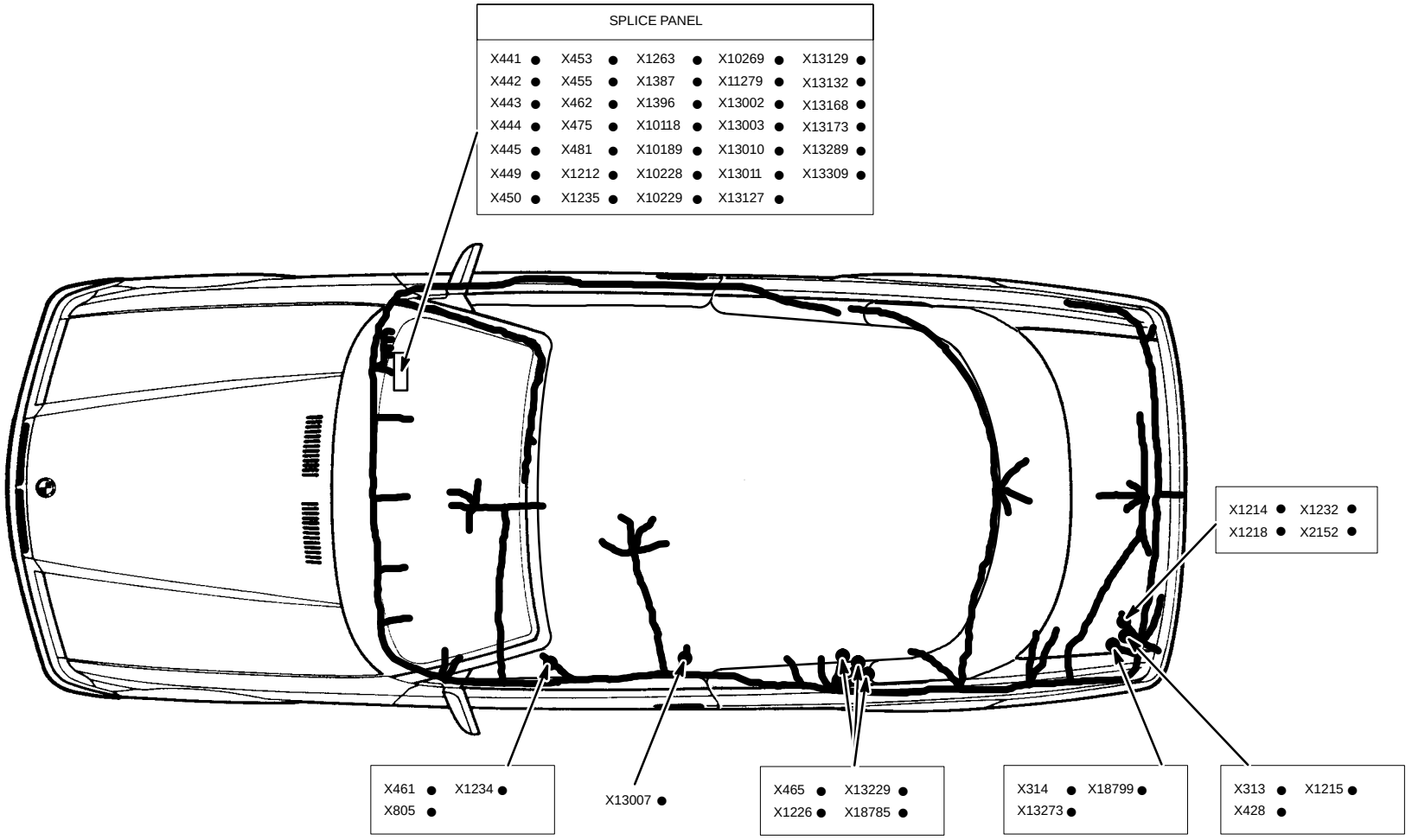


SPLICE PANEL			
X441	X462	X1894	X13129
X442	X475	X1895	X13132
X443	X481	X10118	X13164
X444	X1212	X10269	X13164
X445	X1235	X11269	X13168
X449	X1263	X13002	X13173
X450	X1299	X13003	X13289
X453	X1387	X13010	X13309
X455	X1396	X13011	

X313
X314
X428
X1214
X1215
X1218
X1226
X1232
X2152

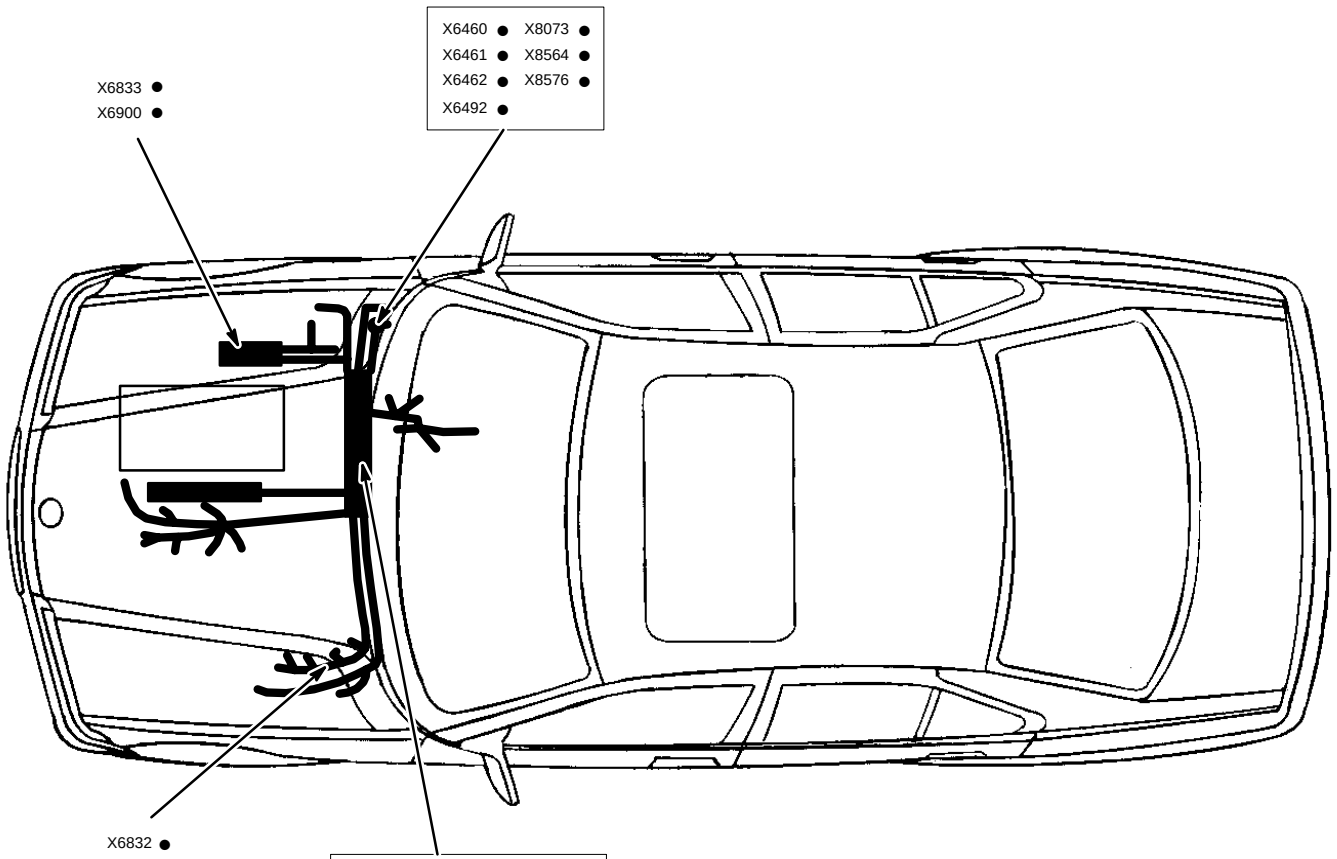
SPLICE LOCATION VIEWS

REAR WIRING HARNESS – CONVERTIBLE



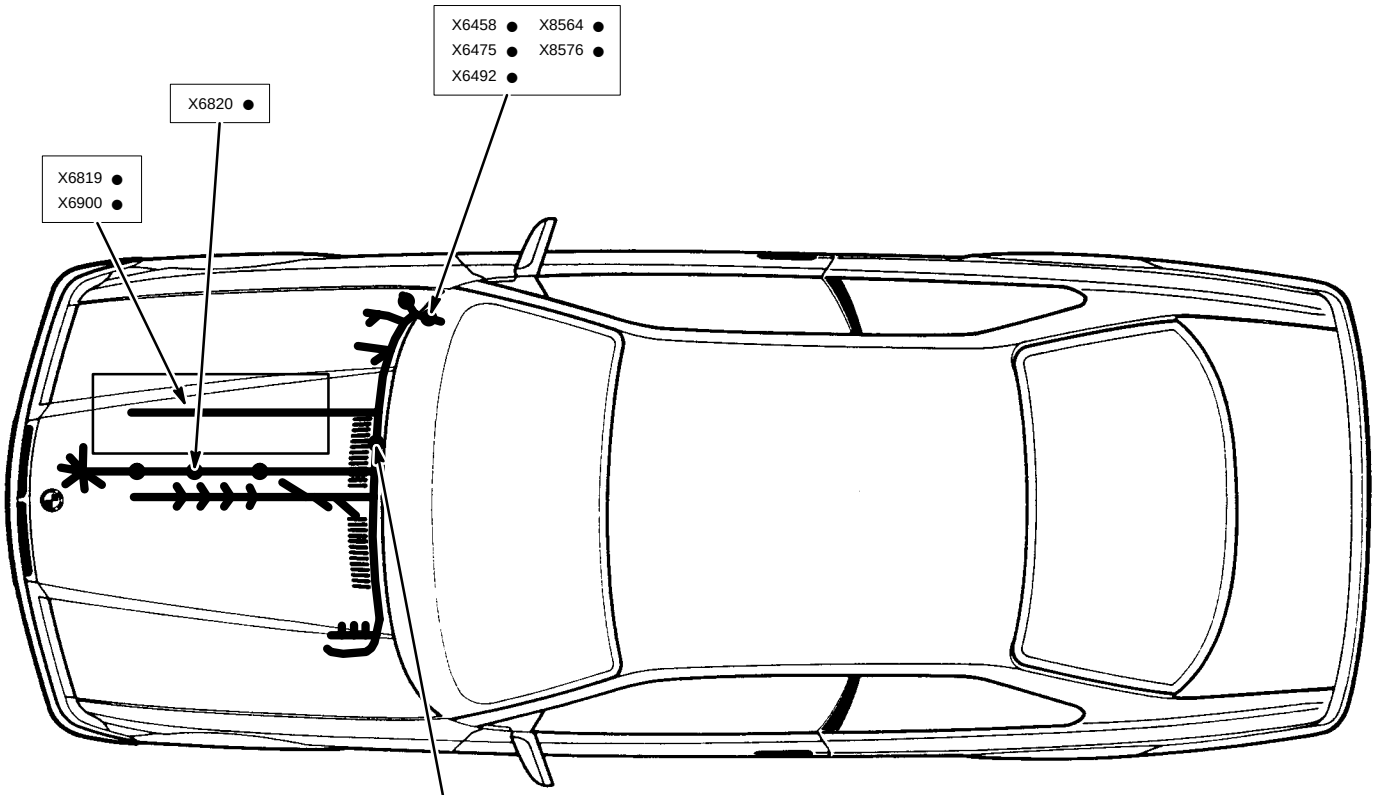
SPLICE LOCATION VIEWS

ENGINE HARNESS M44



SPLICE LOCATION VIEWS

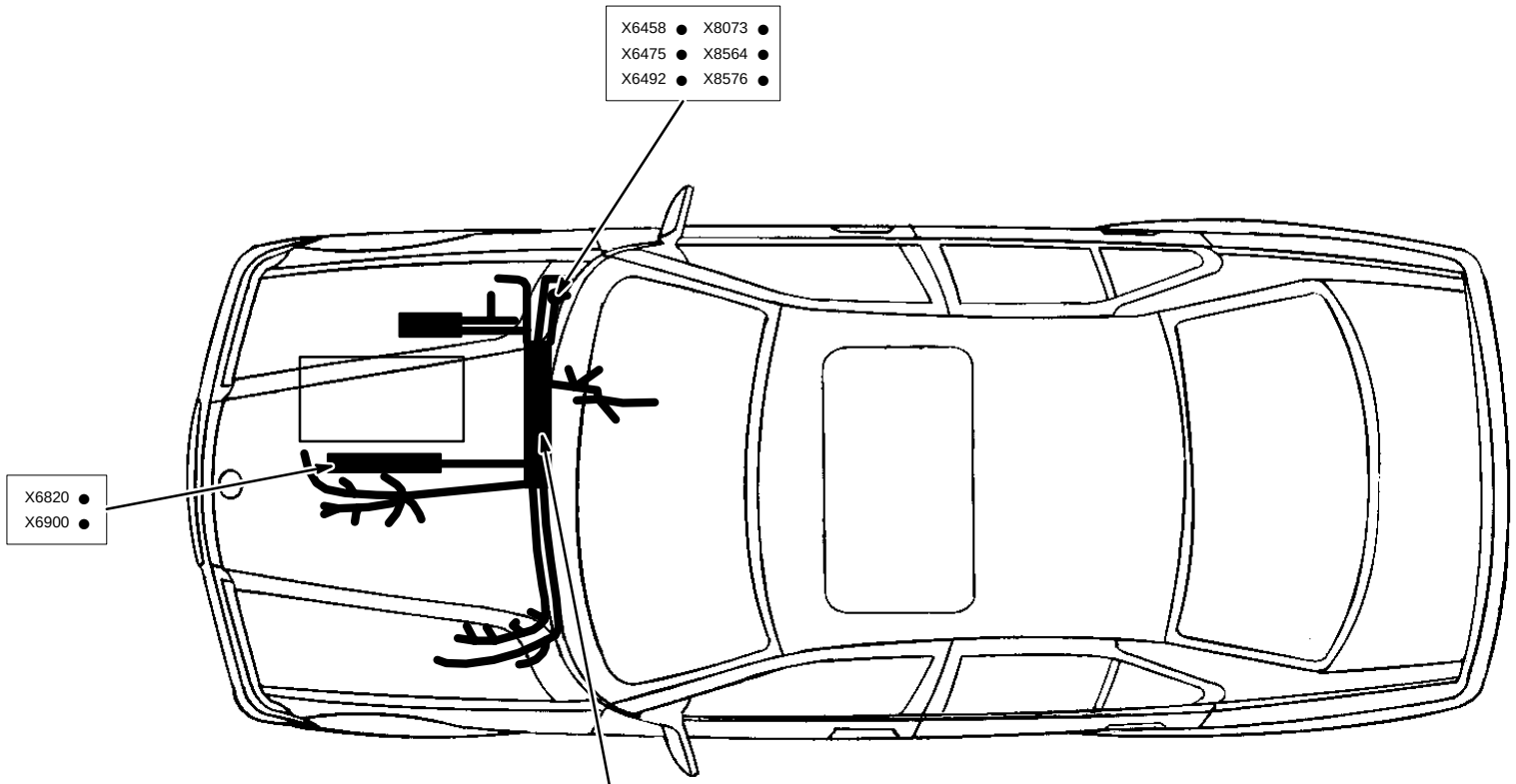
ENGINE HARNESS M3



SPLICE PANEL				
X6411 ●	X6822 ●	X6867 ●	X8010 ●	X8074 ●
X6412 ●	X6823 ●	X6868 ●	X8015 ●	X8103 ●
X6420 ●	X6832 ●	X6869 ●	X8038 ●	X8565 ●
X6459 ●	X6835 ●	X8000 ●	X8051 ●	
X6810 ●	X6860 ●	X8004 ●	X8071 ●	
X6821 ●	X6863 ●	X8007 ●	X8072 ●	

SPLICE LOCATION VIEWS

ENGINE HARNESS M52



SPLICE PANEL			
X6411	X6823	X6868	X8038
X6412	X6832	X6869	X8071
X6420	X6835	X8000	X8072
X6459	X6860	X8004	X8074
X6810	X6863	X8007	X8103
X6821	X6866	X8010	X8565
X6822	X6867	X8015	

8500.0 CONNECTOR VIEWS

FIG. 1

B030003.02

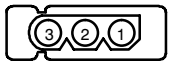


FIG. 2

B260005.00

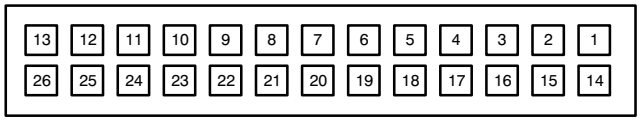


FIG. 3

B150003.00

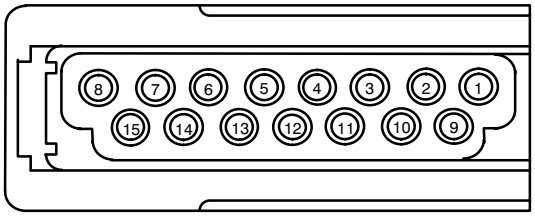
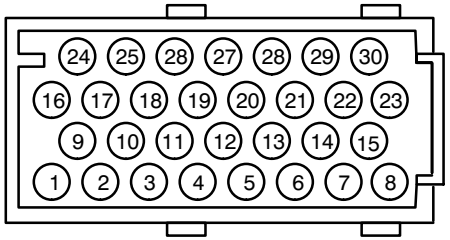


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

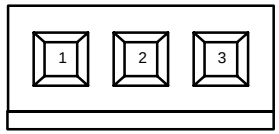


FIG. 2

B120003.00

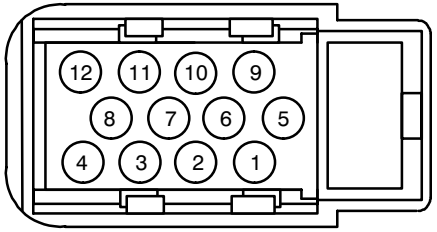


FIG. 3

B120001.00

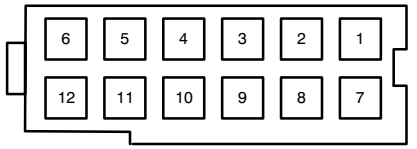


FIG. 4

B080002.00

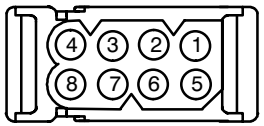


FIG. 5

B180000.00

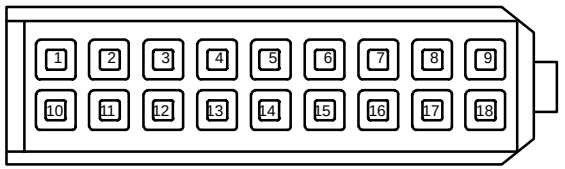
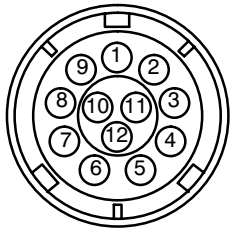


FIG. 6

B120015



CONNECTOR VIEWS

FIG. 1

B030001.00

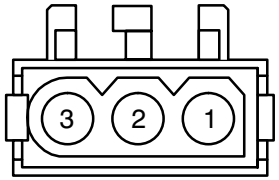


FIG. 2

B070007.00

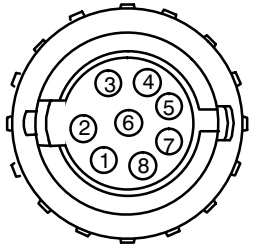


FIG. 3

B170001.00

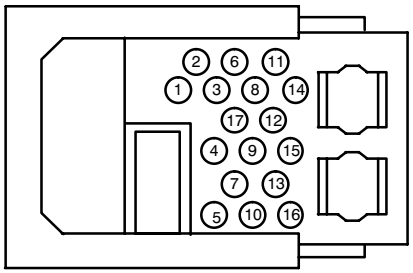


FIG. 4

B100008.00

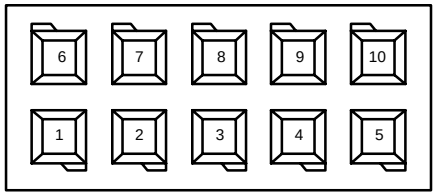
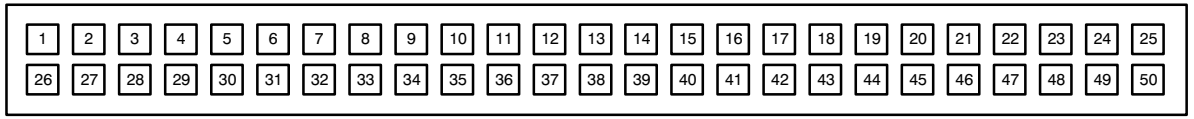


FIG. 5

B500000.00



CONNECTOR VIEWS

FIG. 1

B160001.00

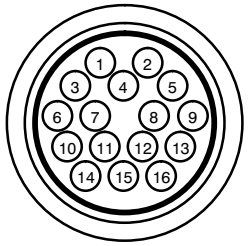


FIG. 2

B050003.00

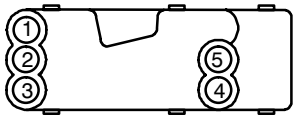


FIG. 3

B040004.00

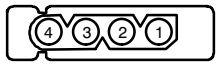


FIG. 4

B120002.02

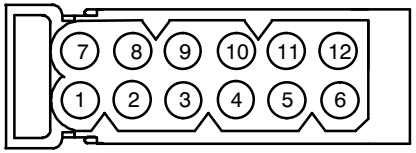


FIG. 5

B080001.00

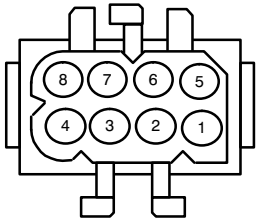
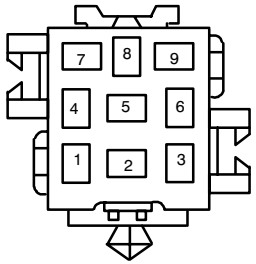


FIG. 6

B090002.00



CONNECTOR VIEWS

FIG. 1

B210002.00

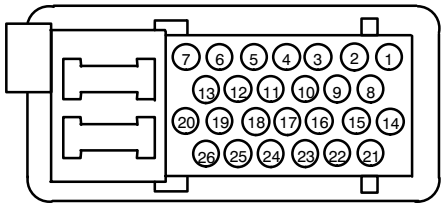


FIG. 2

B060001.02

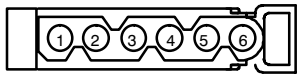


FIG. 3

B050005.00

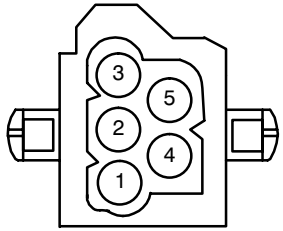


FIG. 4

B200003.00

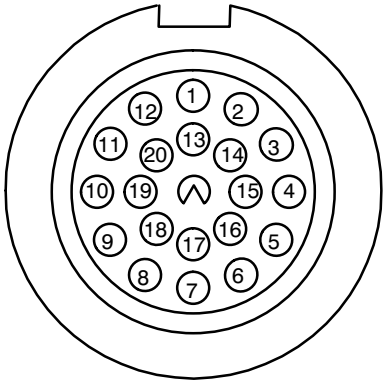
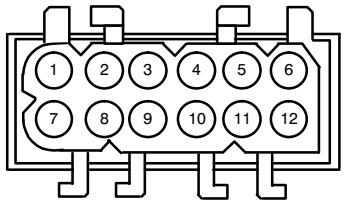


FIG. 5

B120004.01



CONNECTOR VIEWS

FIG. 1

B060008.00

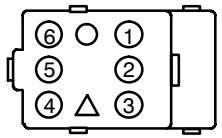


FIG. 2

B250001.01

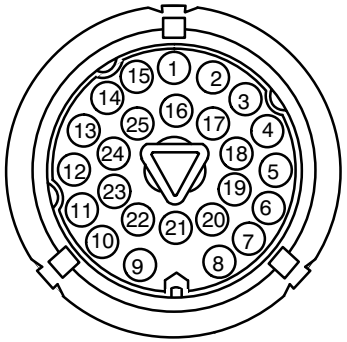


FIG. 3

B060019.02

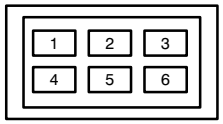


FIG. 4

B060037.00

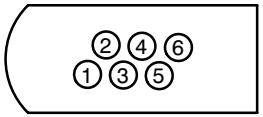


FIG. 5

B250004.00

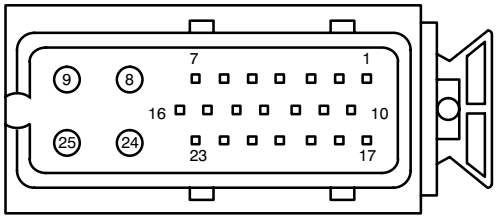
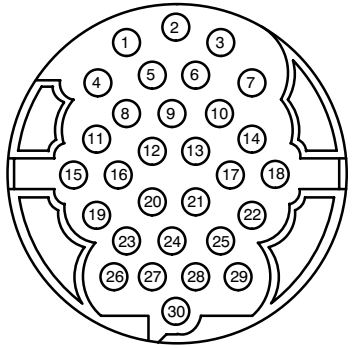


FIG. 6

B300005.00



CONNECTOR VIEWS

FIG. 1

B880001.00

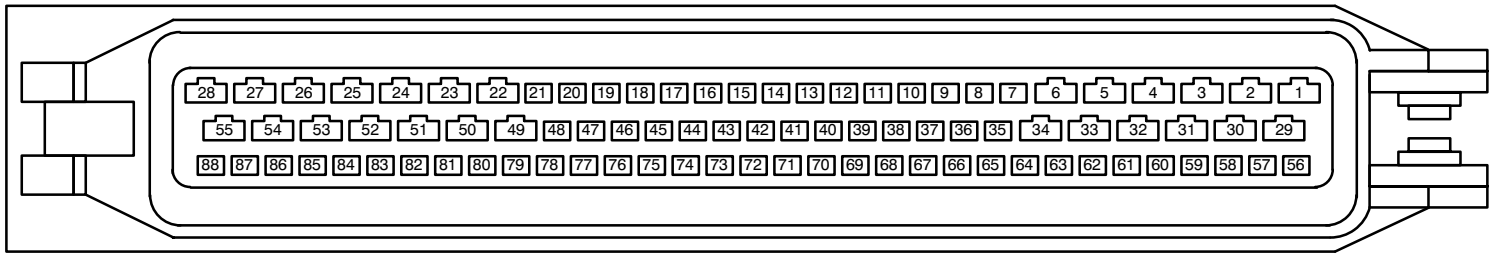


FIG. 2

B060038.00

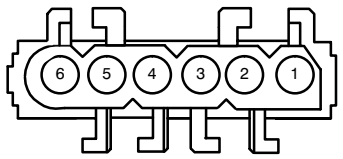


FIG. 3

B030006.00

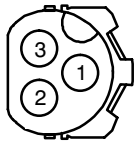
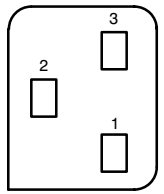


FIG. 4

B030004.01



CONNECTOR VIEWS

FIG. 1

B060012.00

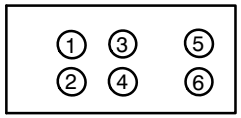


FIG. 2

B040023.01

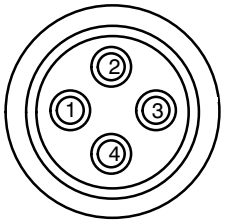


FIG. 3

B030018.00

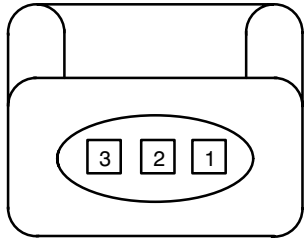


FIG. 4

B030015.08

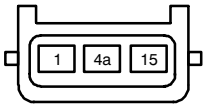


FIG. 5

B030023.00

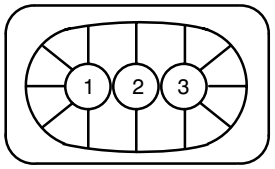
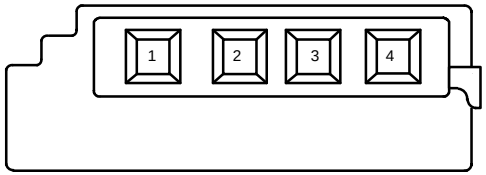


FIG. 6

B040020.00



CONNECTOR VIEWS

FIG. 1

B030025.00

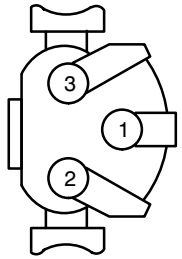


FIG. 2

B060037.01

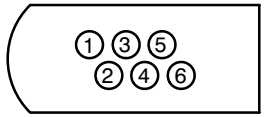


FIG. 3

B160003.00

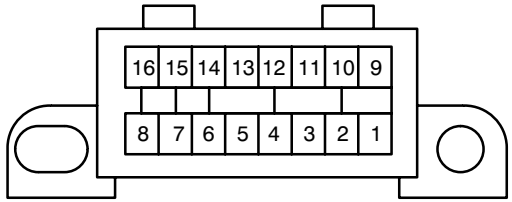


FIG. 4

B060001.00

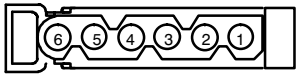
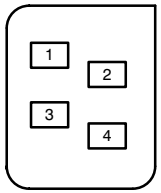


FIG. 5

B040027.00



CONNECTOR VIEWS

FIG. 1

B030048a

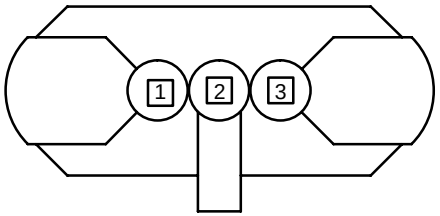


FIG. 2

B030013.00



FIG. 3

B040029.00

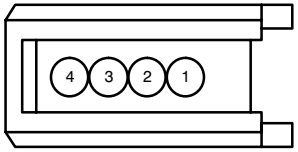
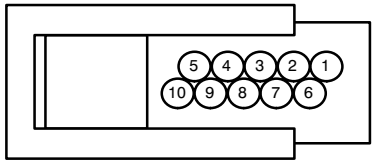


FIG. 4

B100007.00



CONNECTOR VIEWS

FIG. 1

B040021

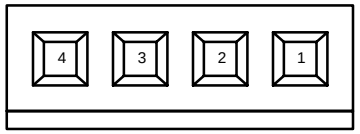


FIG. 2

B030018.01

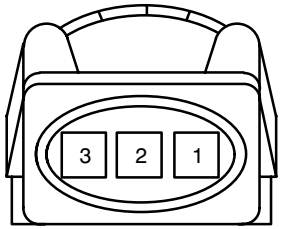


FIG. 3

B030042.01

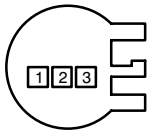


FIG. 4

B420000.00

