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**1996**

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**BMW 318is/c,  
320i, 325i/c, 328i/c  
M3 (E36)**

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**Electrical**

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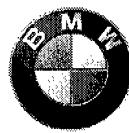
**Troubleshooting**

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**Manual**

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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)



## ELECTRICAL TROUBLESHOOTING MANUAL

**3 SERIES – E36 (318is, 320i, 325i, 328i, M3, INCL.  
CONVERTIBLE)**

### SCHEMATICS

### MODEL YEAR 1996

0100.0	INDEX	2460.2	ELECTRONIC TRANSMISSION
0110.0	INTRODUCTION	2460.4	CONTROL (EGS A4S 310R)
0140.0	SYMBOLS	3234.0	ELECTRONIC TRANSMISSION
0670.0	POWER DISTRIBUTION CHART	3234.0	CONTROL (EGS A5S 310Z)
0670.1	FUSE CHART	3450.0	SUPPLEMENTAL RESTRAINT
0670.2	POWER DISTRIBUTION	3450.1	SYSTEM (AIR BAG)
0670.3	FUSE DETAILS	5116.0	SLIP CONTROL (ABS)
0670.4	GROUND DISTRIBUTION	5126.0	SLIP CONTROL (ABS/ASC)
0670.5	DATA LINK	5133.1	POWER MIRRORS
1210.9	ENGINE CONTROL SYSTEM (DME M1.7, 4–CYLINDER M42)	5133.1	ZKE CENTRAL LOCKING (ZV)
1210.10	ENGINE CONTROL SYSTEM MS40 (6–CYLINDER M50)	5200.0	POWER WINDOWS (FH)
1210.13	ENGINE CONTROL SYSTEM (DME M3.3.1, 6–CYLINDER M50)	5203.0	POWER SEATS
1210.14	ENGINE CONTROL SYSTEM (DME M3.3, 6–CYLINDER S50 B30)	5410.1	HEATED SEATS
1210.17	ENGINE CONTROL SYSTEM MS41.1 (6–CYLINDER M52)	5430.1	POWER SUN ROOF (SHD)
1210.20	ENGINE CONTROL SYSTEM (DME M5.2, 4–CYLINDER M44)	6100.0	ELECTRICAL CONVERTIBLE TOP
1230.0	CHARGING SYSTEM	6133.0	CENTRAL BODY ELECTRONICS
1240.0	START	6135.0	(ZKE IV)
		6160.1	HORN
		6167.1	DRIVE–AWAY PROTECTION (EWS II)
		6211.0	WIPER/WASHER MODULE (WWM)
		6213.2	HEADLIGHT WASHER (SRA)
		6214.0	INSTRUMENT CLUSTER
			MULTI–FUNCTION CLOCK
			ON–BOARD DISPLAY



## SCHEMATICS

6300.0	LIGHT SWITCH DETAILS	6450.4	INTEGRATED CLIMATE
6312.0	HEADLIGHTS/FOG LIGHTS	6450.7	REGULATION (IHKR E36)
6313.0	TURN/HAZARD LIGHTS	6510.0	INTEGRATED CLIMATE
6314.0	PARK/TAIL/UNDERHOOD LIGHTS	6510.1	REGULATION (IHKA E36)
6320.0	LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS	6561.0	RADIO/CD PLAYER (PROVISIONS)
6322.0	BACK UP LIGHTS	6571.0	RADIO/HIFI
6325.0	BRAKE LIGHTS	6575.2	CELLULAR TELEPHONE (PROVISIONS)
6330.3	INTERIOR LIGHTS	6581.2	ANTI-THEFT SYSTEM (ALPINE)
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ ASHTRAY LIGHT/CHARGING SOCKET/ CIGAR LIGHTER	7000.0	ON-BOARD COMPUTER (BC V)
6350.0	CRASH CONTROL MODULE	7100.0	COMPONENT LOCATION CHART
6412.5	PARK VENTILATION WITH IHKR	8000.0	COMPONENT LOCATION VIEWS
6424.0	REAR WINDOW DEFOGGER/ ANTENNA	8500.0	SPLICE LOCATION VIEWS CONNECTOR VIEWS



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0100.0

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



## INDEX

04/97

0100.0-01

1996

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

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.
SPICE 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



## INDEX

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



## INDEX

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



0110.0

## 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**.

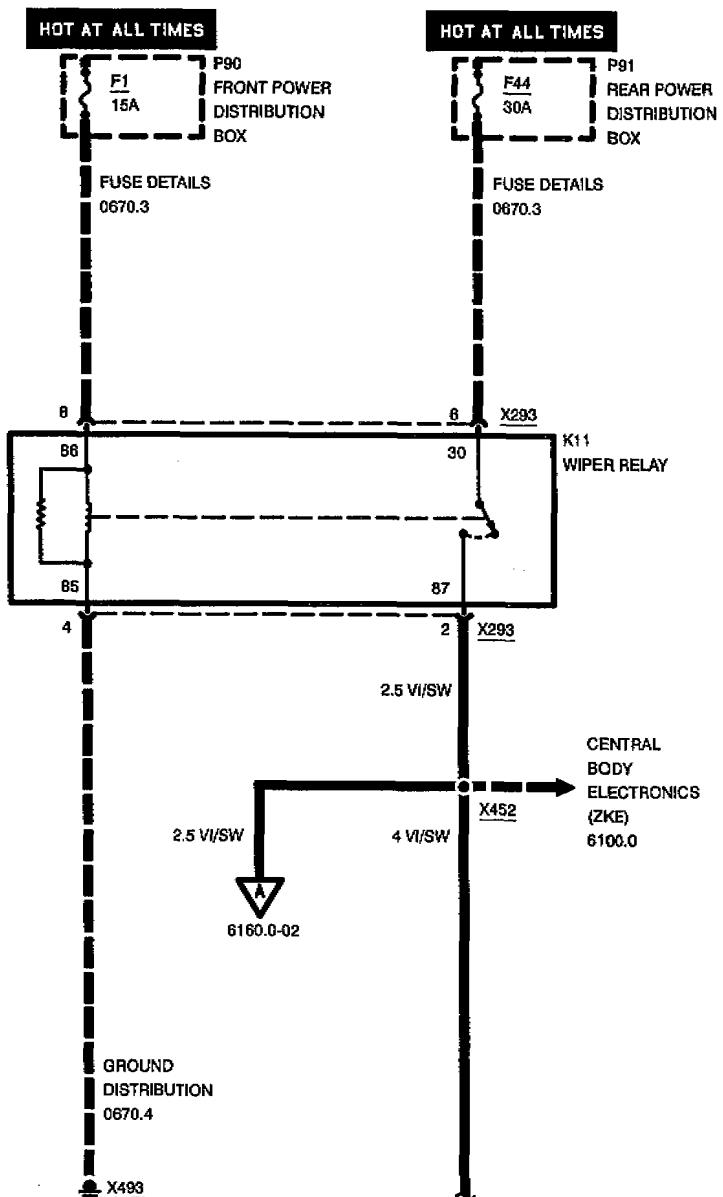
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

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.

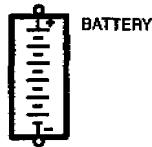
### Example

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

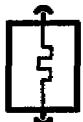


**General Conventions**

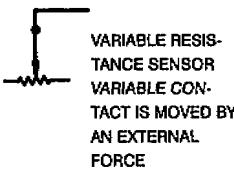
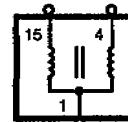
1. Switches and relays are always shown in rest position (e.g. K11).
2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).
3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).
4. 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.



BATTERY



HEATING ELEMENT

VARIABLE RESISTANCE SENSOR  
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE

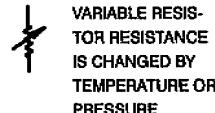
IGNITION COIL



FUSE DETAILS



LOUDSPEAKER OR HORN



VARIABLE RESISTOR RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE



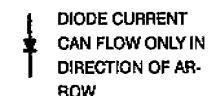
CONTROL/POWER ELECTRONICS



FUSIBLE LINK



LIGHT



DIODE CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW



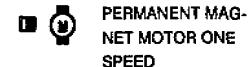
HALL EFFECT SENSOR



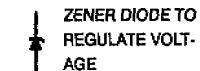
RADIO



THERMO SWITCH



PERMANENT MAGNET MOTOR ONE SPEED



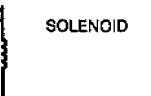
ZENER DIODE TO REGULATE VOLTAGE



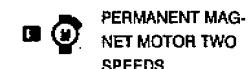
TRANSISTORIZED SWITCH



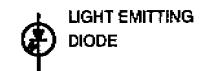
INDUCTIVE SENSOR



SOLENOID



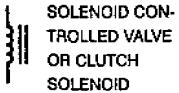
PERMANENT MAGNET MOTOR TWO SPEEDS



LIGHT EMITTING DIODE



VEHICLE SPEED SENSOR



SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID



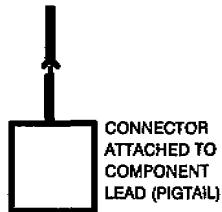
KNOCK SENSOR



OXYGEN SENSOR

**SYMBOLS**

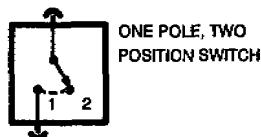
ENTIRE COMPONENT SHOWN



CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



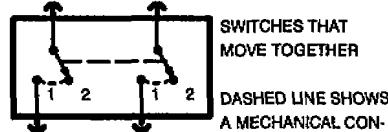
PART OF COMPONENT SHOWN



ONE POLE, TWO POSITION SWITCH

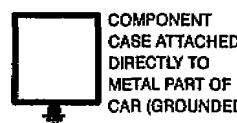


COMPONENT WITH SCREW TERMINALS

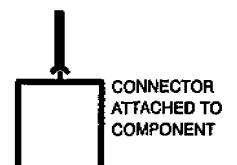


SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES



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



CONNECTOR ATTACHED TO COMPONENT

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

WIRE INSULATION IS ONE COLOR

.5 BR

PIN NUMBER

4

.5 BR

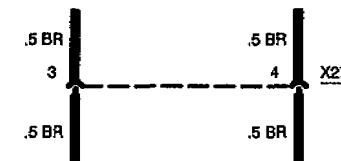
X270

CONNECTOR REFERENCE NUMBER FOR COMPONENT LOCATION CHART

WIRE INSULATION IS ONE COLOR WITH ANOTHER COLOR STRIPE (GREEN WITH WHITE)

.75 GN/WS

A WAVY LINE MEANS WIRE IS CONTINUED



TWO CONNECTIONS (PINS) IN THE SAME CONNECTOR

DASHED LINE INDICATES TERMINALS OF THE SAME CONNECTOR

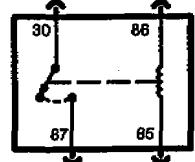
WIRE SIZE IN MM SQUARED

.75 BR

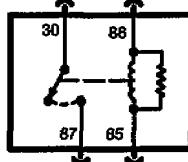
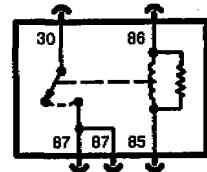
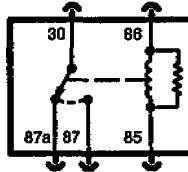
WIRE ATTACHED TO METAL PART OF CAR (GROUNDED)

GROUND NUMBERED FOR REFERENCE ON COMPONENT LOCATION CHART

X165

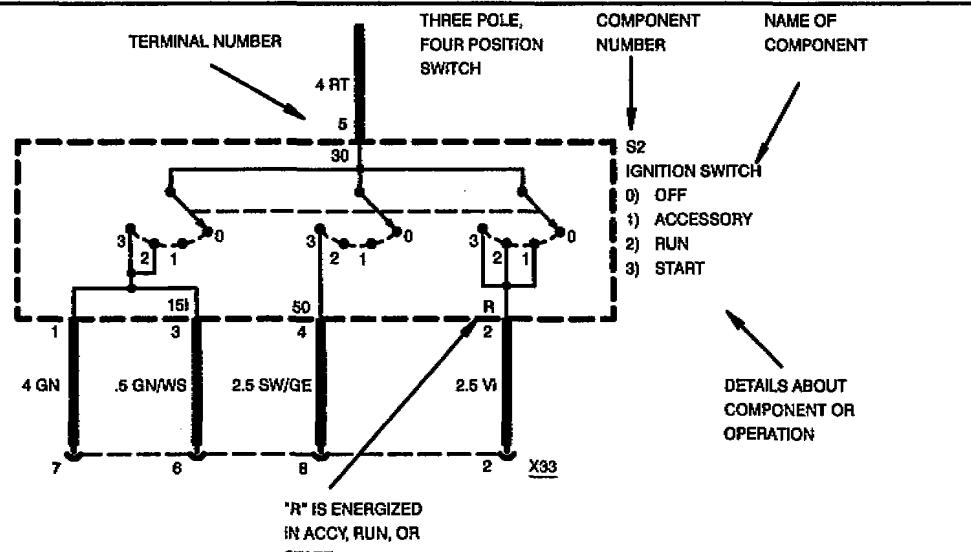


CONTACT RELAY

RELAY WITH  
RESISTOR  
ACROSS WINDINGCONTACT RELAY  
WITH TWO OUTPUTSCHANGEOVER  
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

HOT 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

INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

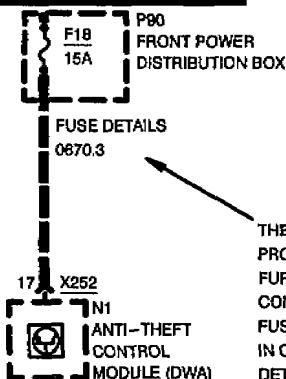


## SYMBOLS

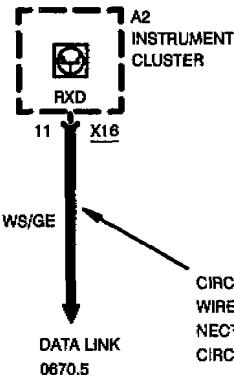
04/97

0140.0-03

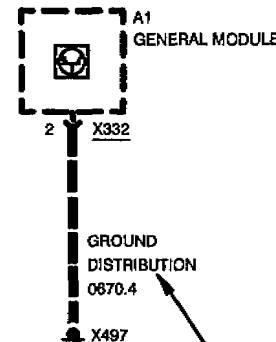
### HOT IN ACCY, RUN AND START



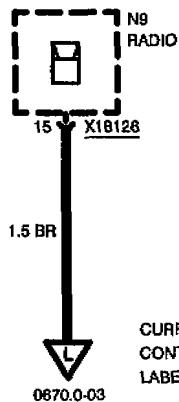
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18



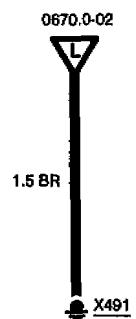
CIRCUIT REFERENCE-A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT



THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO GROUND X497 ARE SHOWN IN CELL "0670.4 GROUND DISTRIBUTION" AT GROUND X497



CURRENT PATH IS CONTINUED AS LABELED



1996



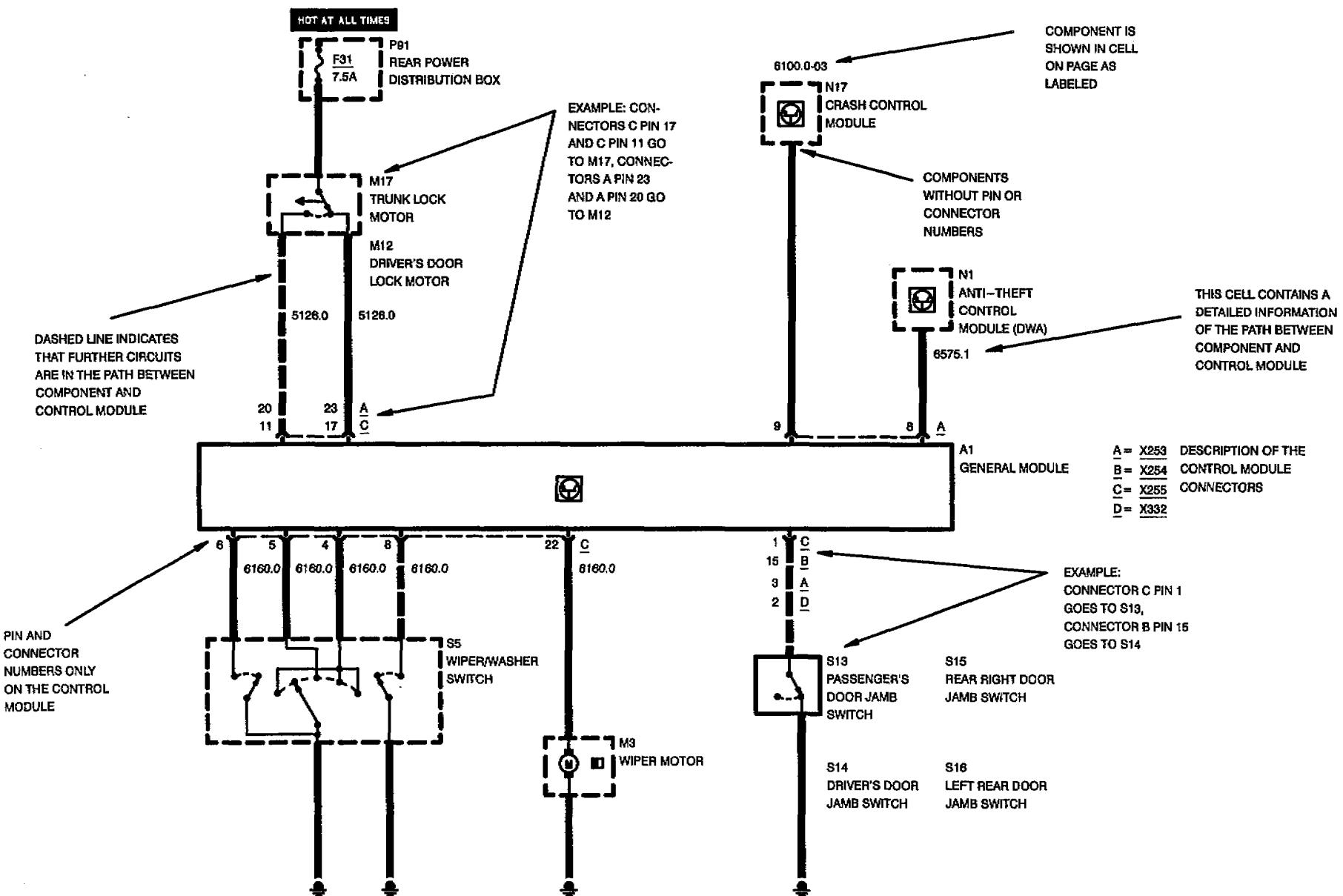
# SYMBOLS

## BLOCK DIAGRAM

04/97

0140.0-04

1996





0670.0



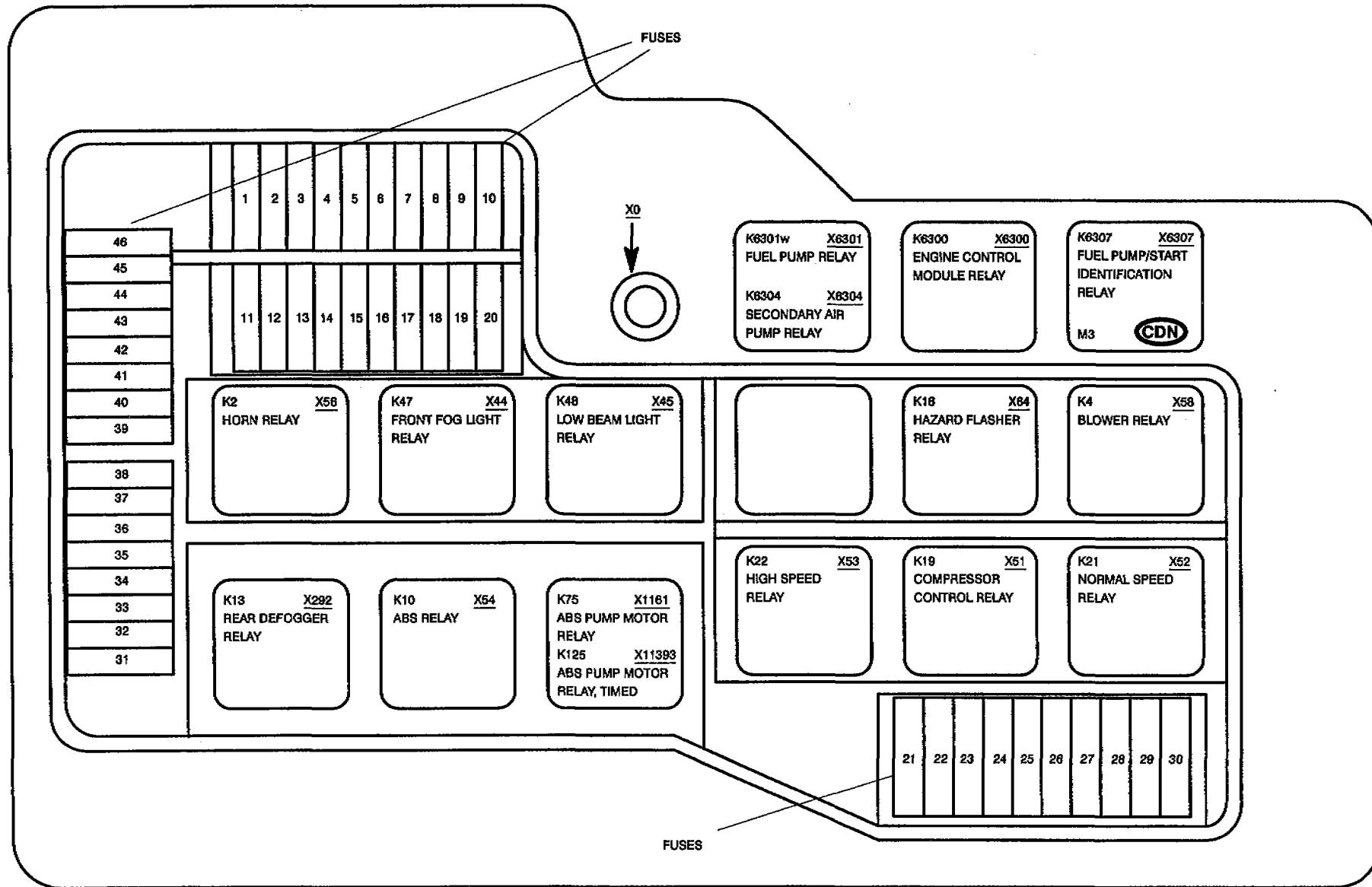
# POWER DISTRIBUTION CHART

## FRONT POWER DISTRIBUTION BOX

04/97

0670.0-00

1996





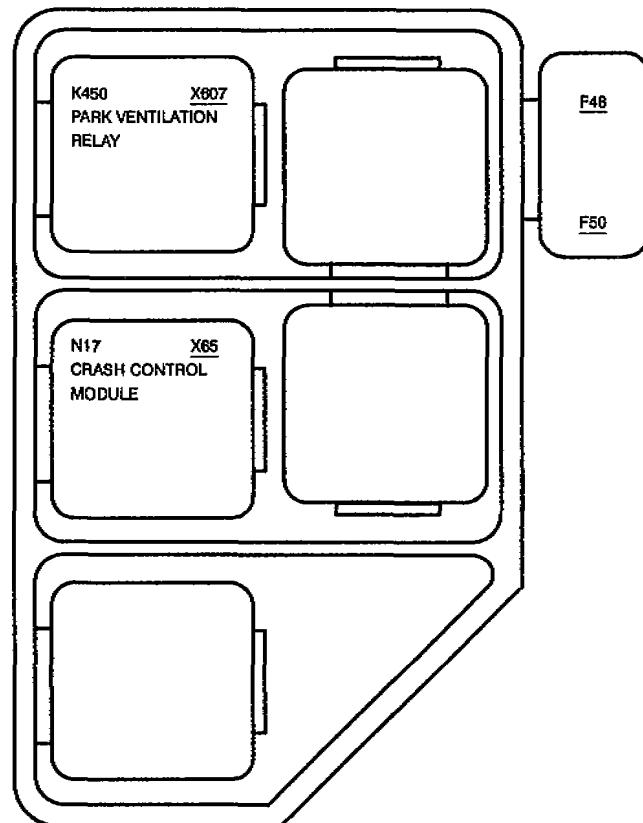
## POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD

04/97

0670.0-01

1996





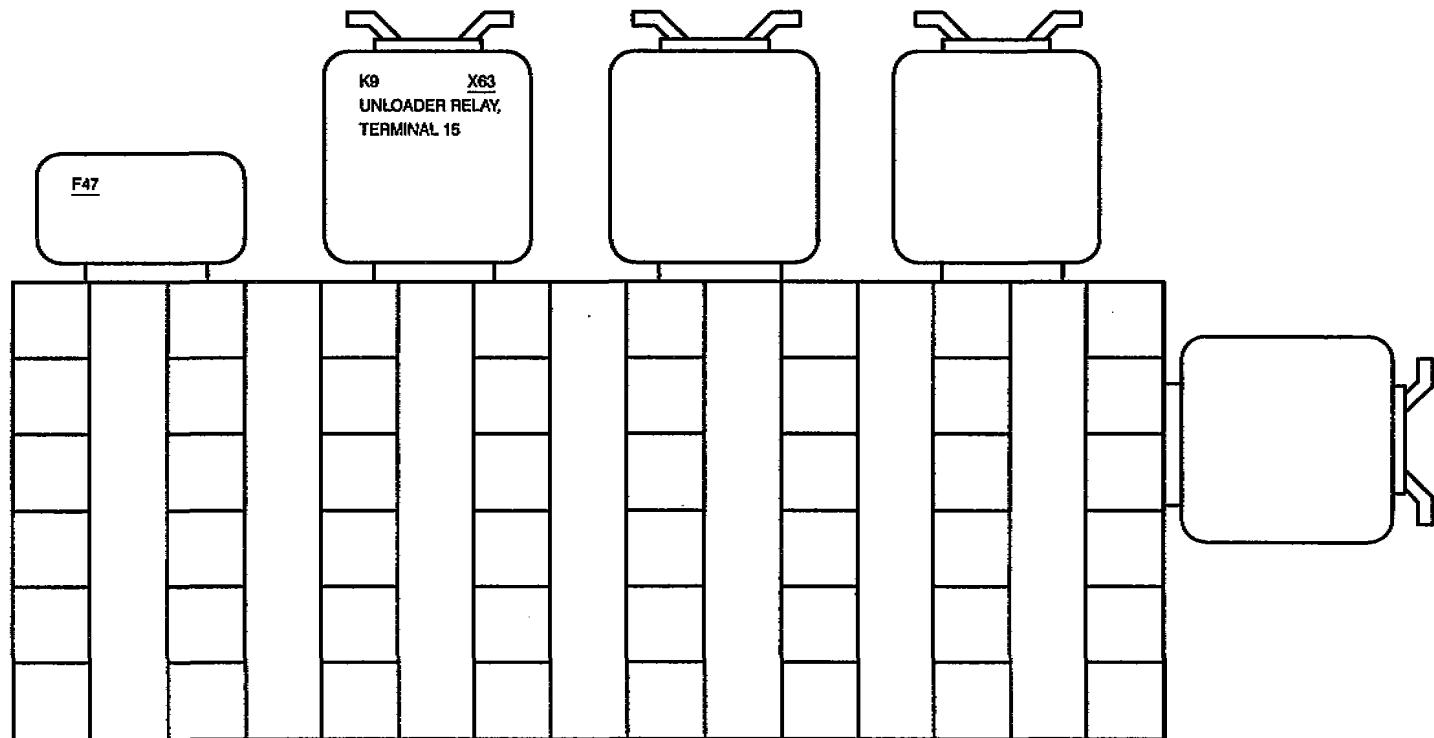
# POWER DISTRIBUTION CHART

## SPLICE PANEL UNDER LH SIDE OF DASHBOARD

04/97

0670.0-02

1996





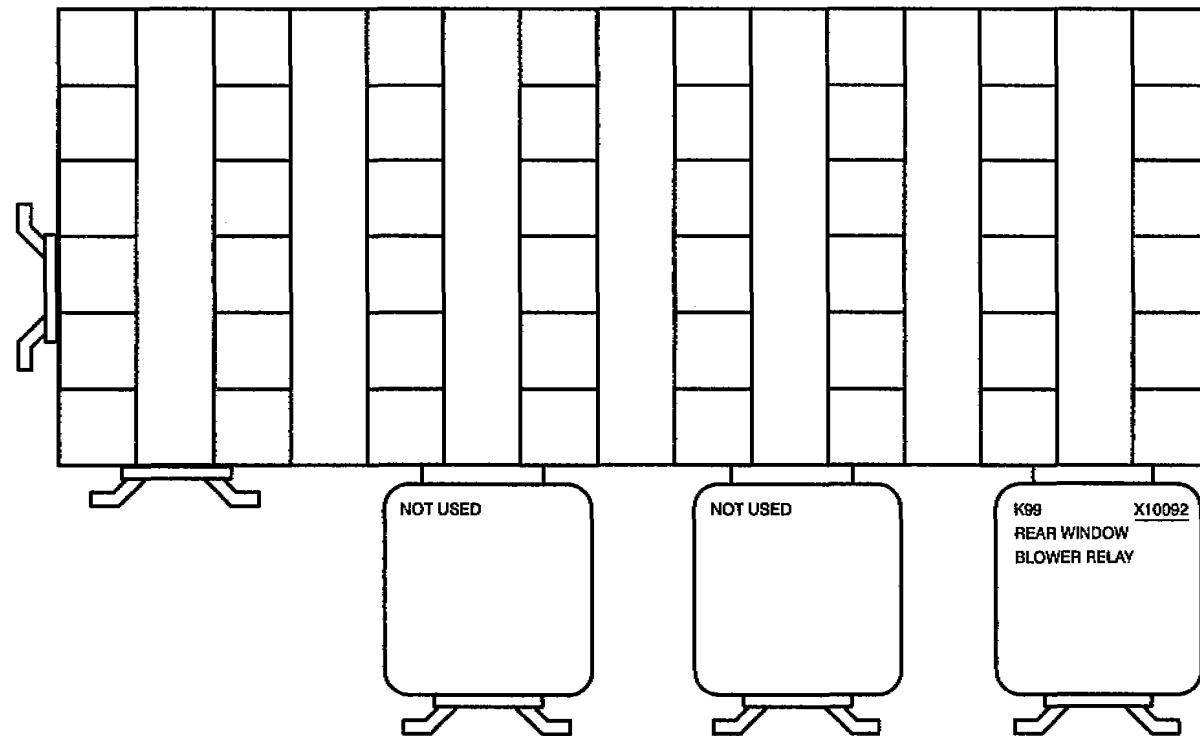
## POWER DISTRIBUTION CHART

SPlice Panel Under RH Side of Dashboard

04/97

0670.0-03

1996



	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

04/97

0670.1-01

1996

		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	10A	5A	10A	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**

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### **FUSES 1 TO 29**

04/97

1996

0670.1-02



## **FUSE CHART**

## **FUSES 30 TO 48**

04/97

0670-1-03

9661

	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**

04/97

0670-1-04

1966



## **FUSE CHART**

### **FUSES 30 TO 48**

04/97

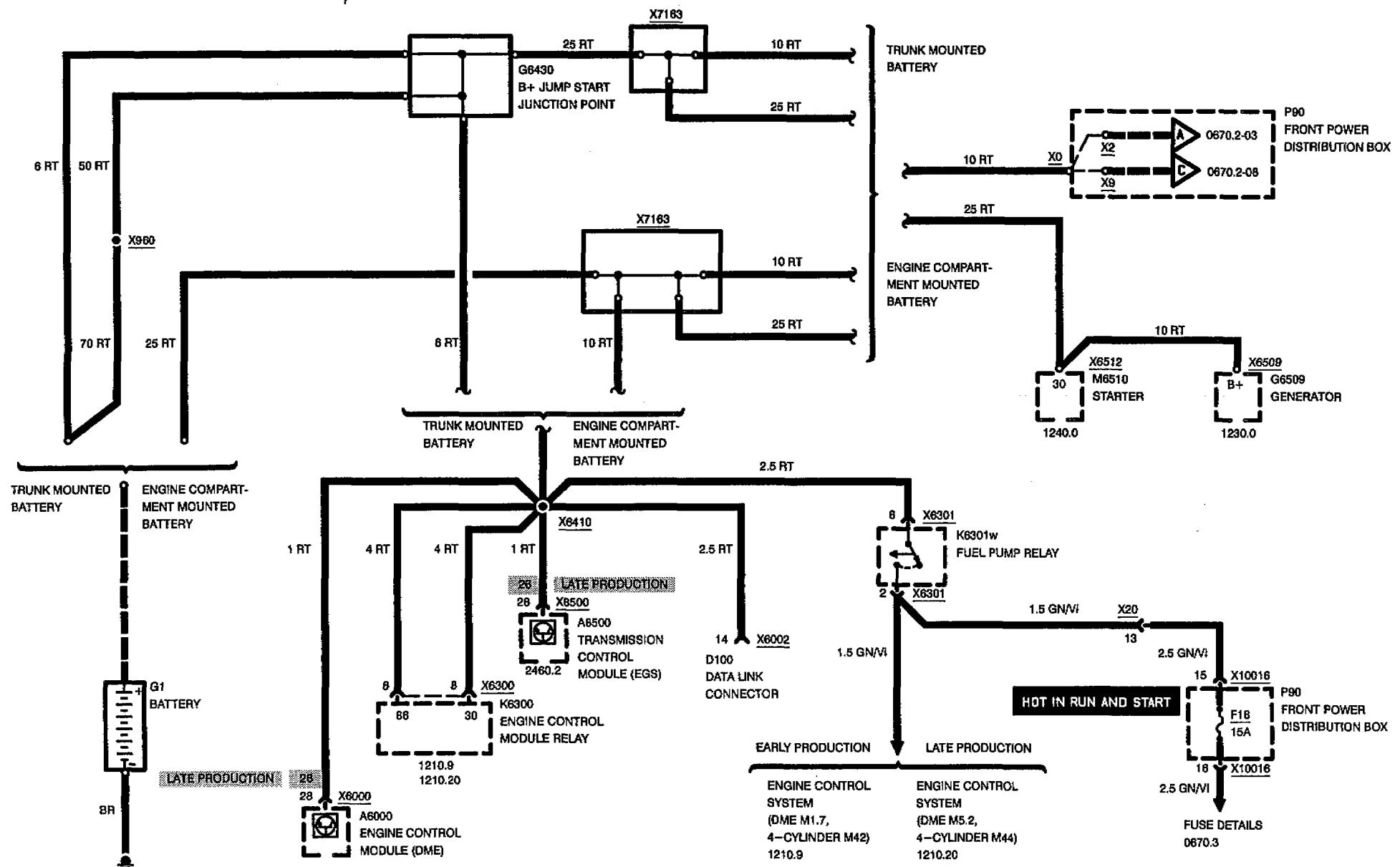
9661



# POWER DISTRIBUTION

318is

04/97



0670.2-00

1996

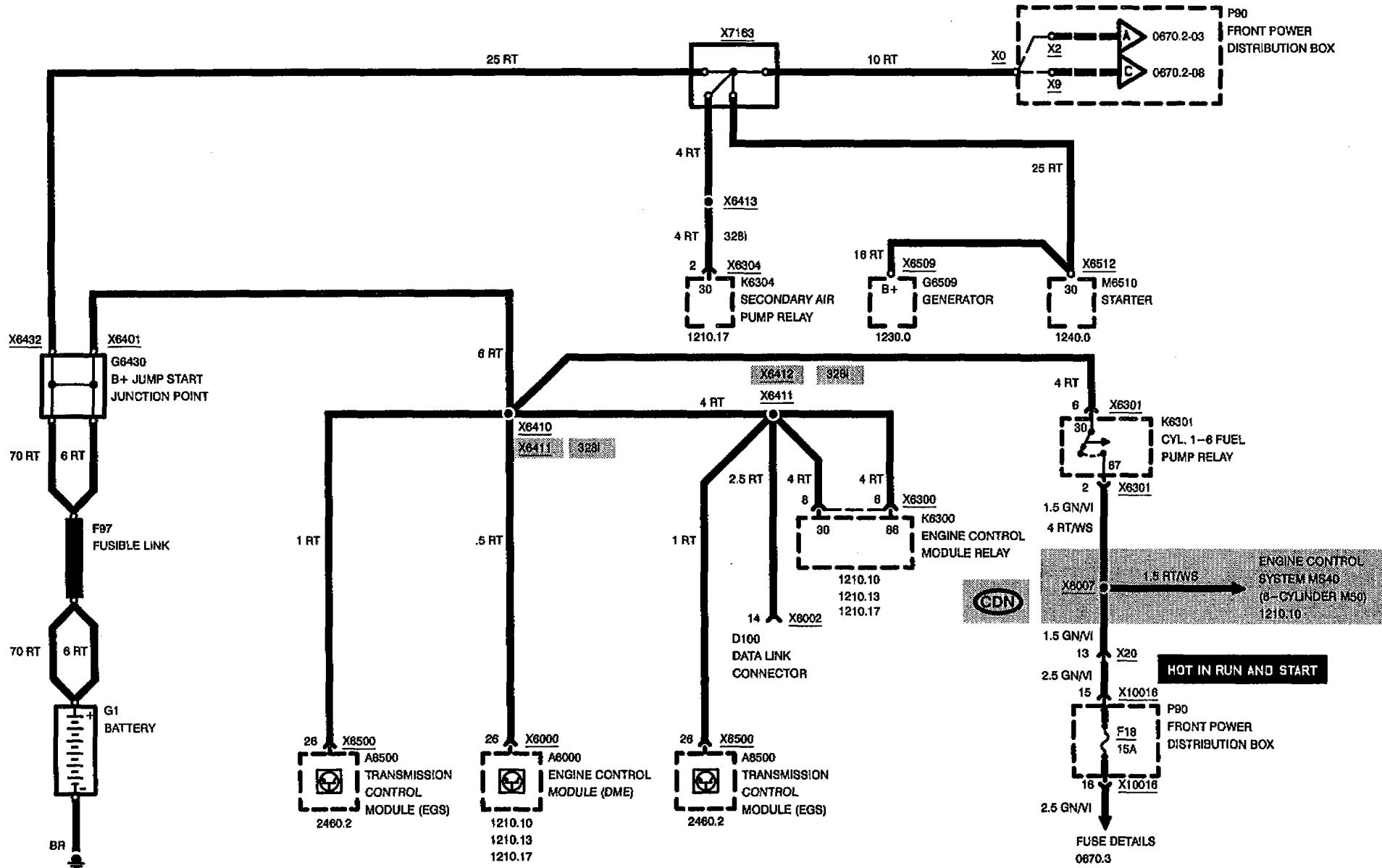


## POWER DISTRIBUTION

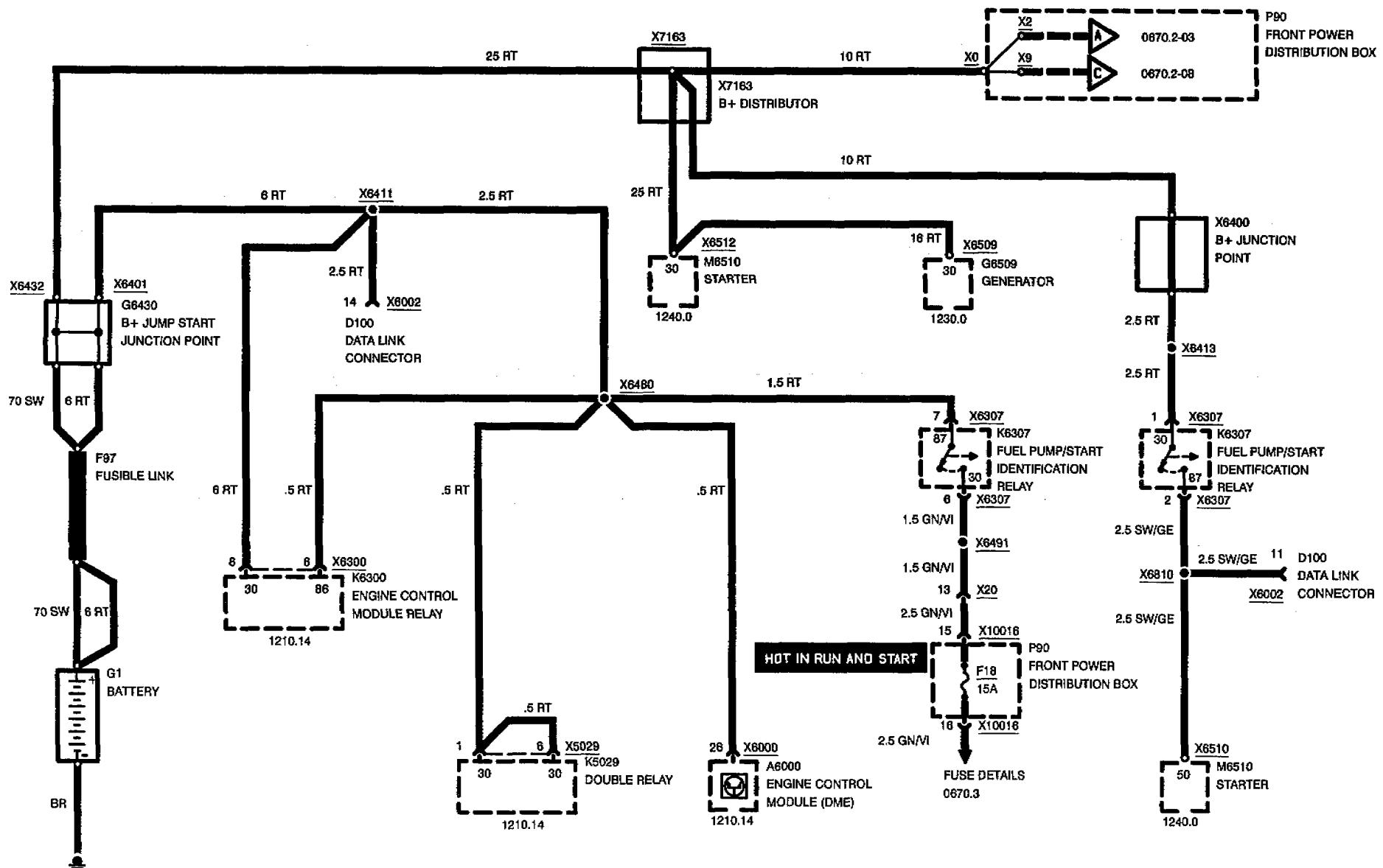
320i (CDN), 325i, 328i

04/97

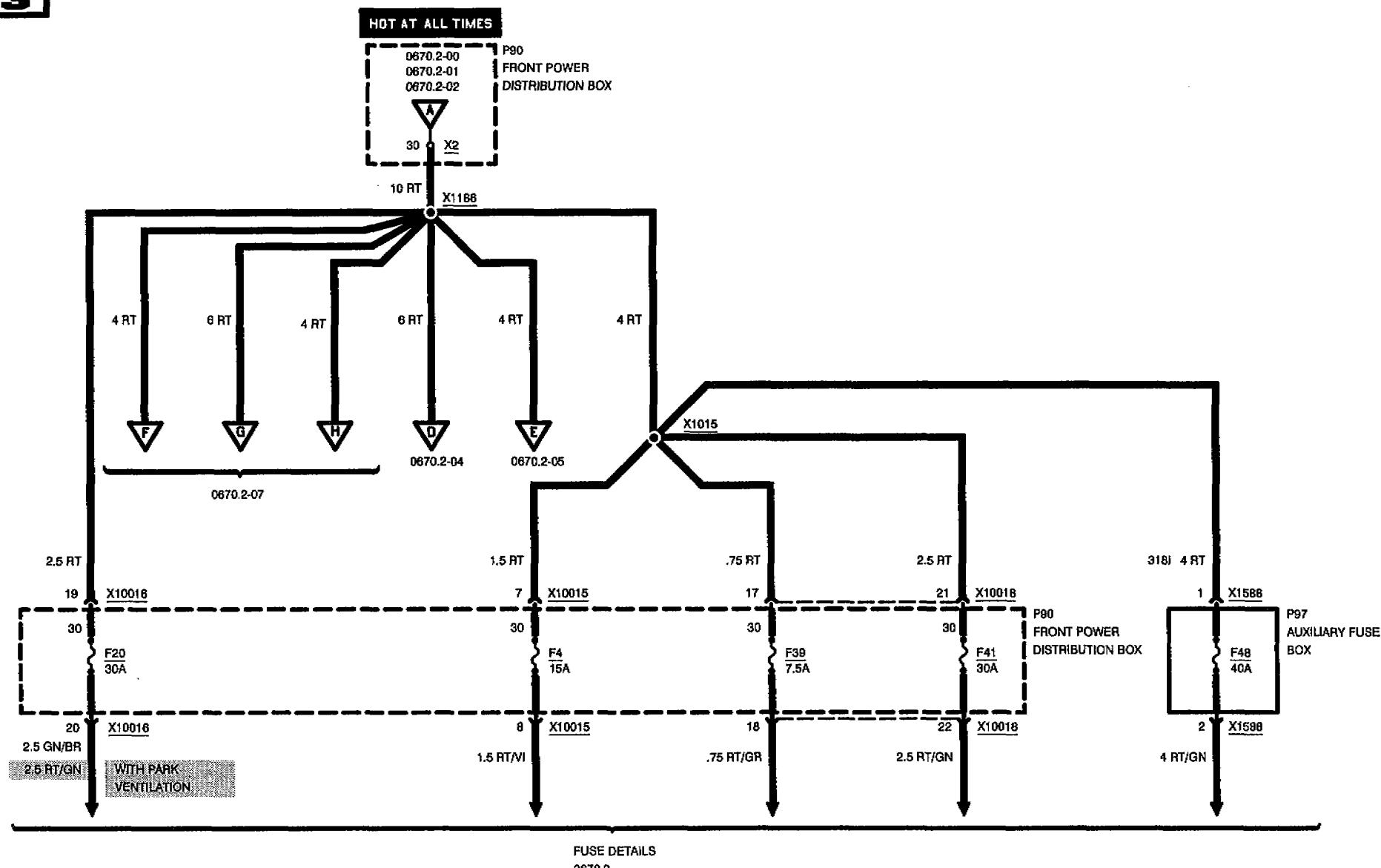
0670.2-01

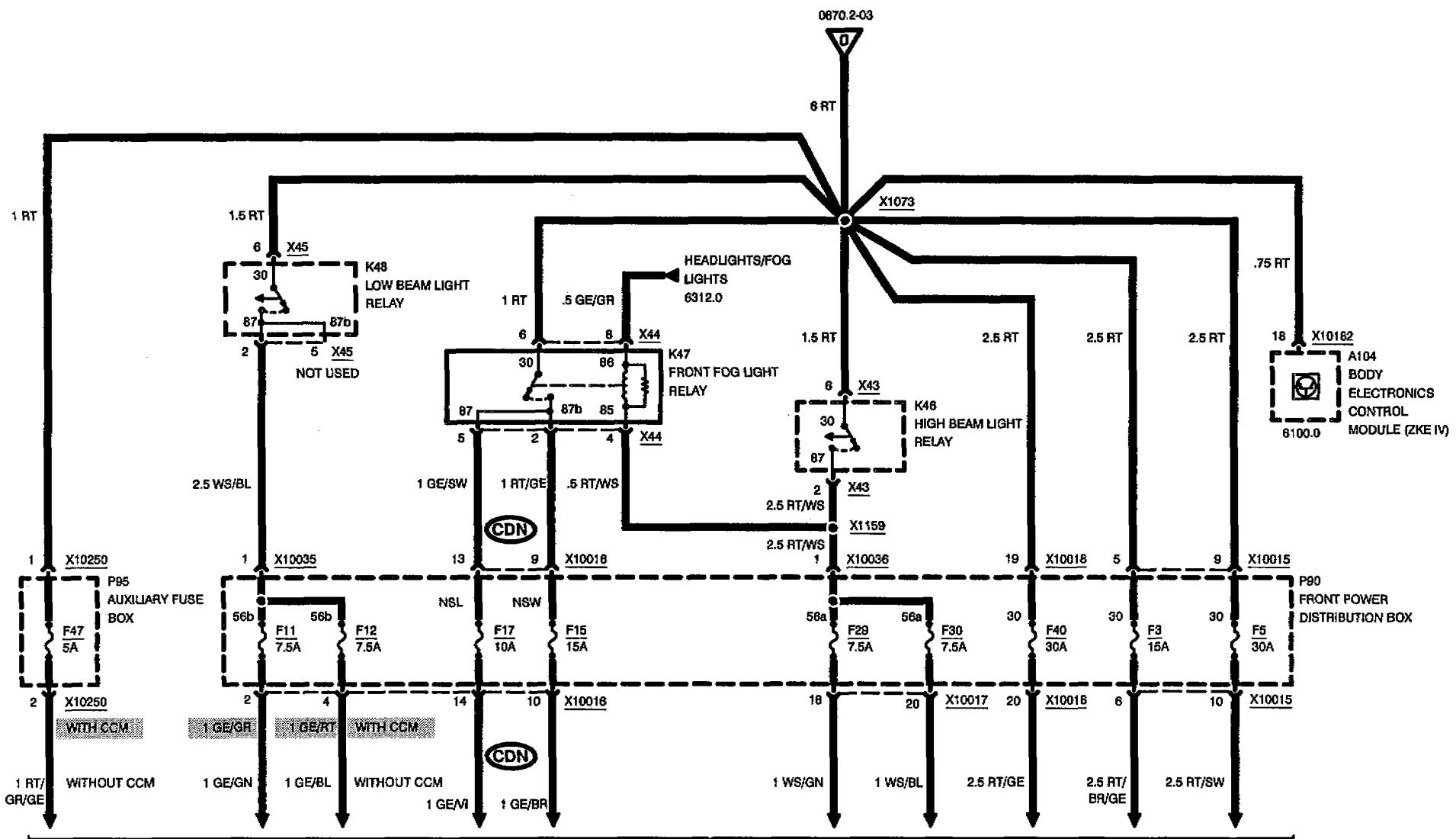


1996



## POWER DISTRIBUTION





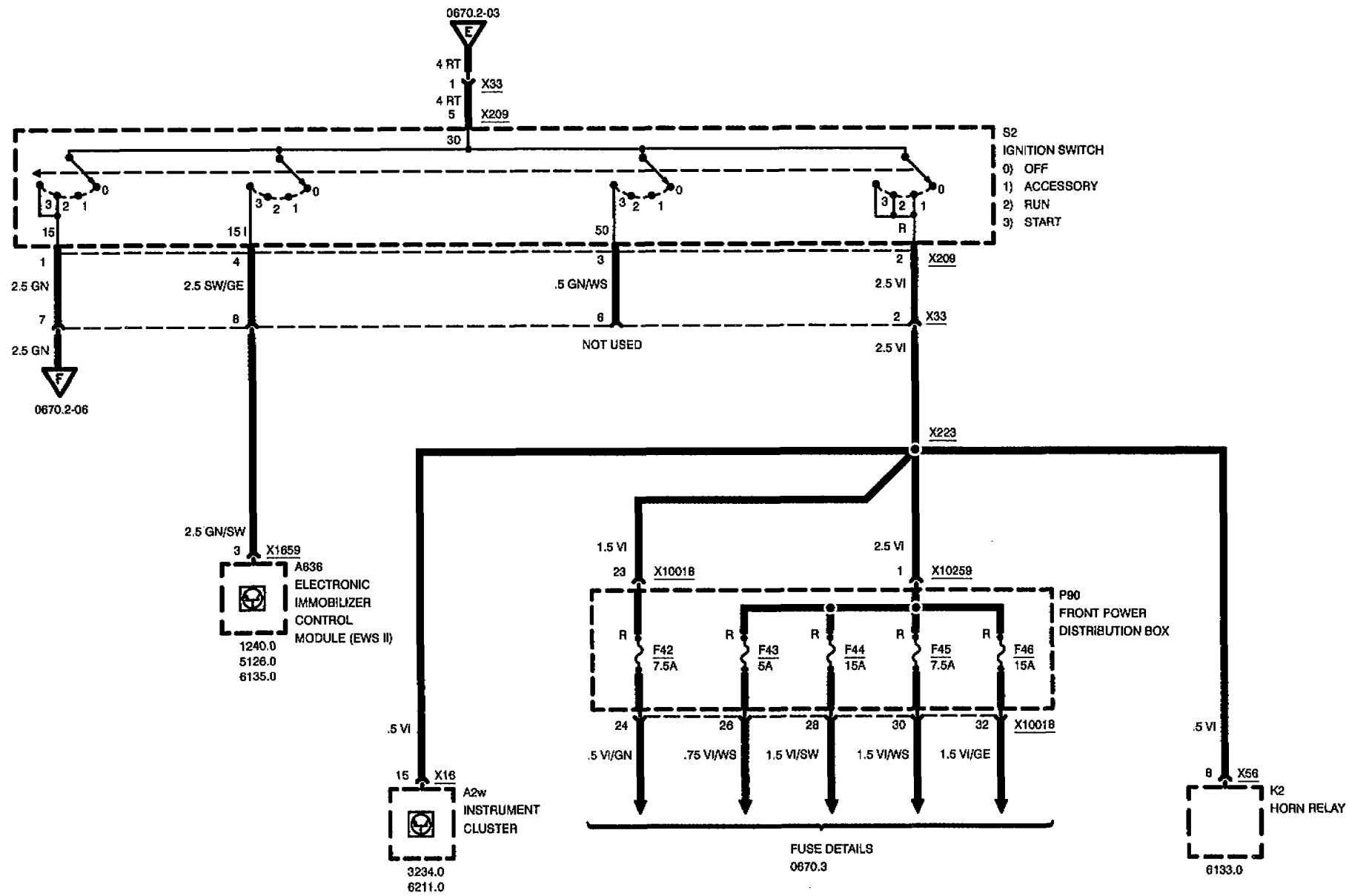


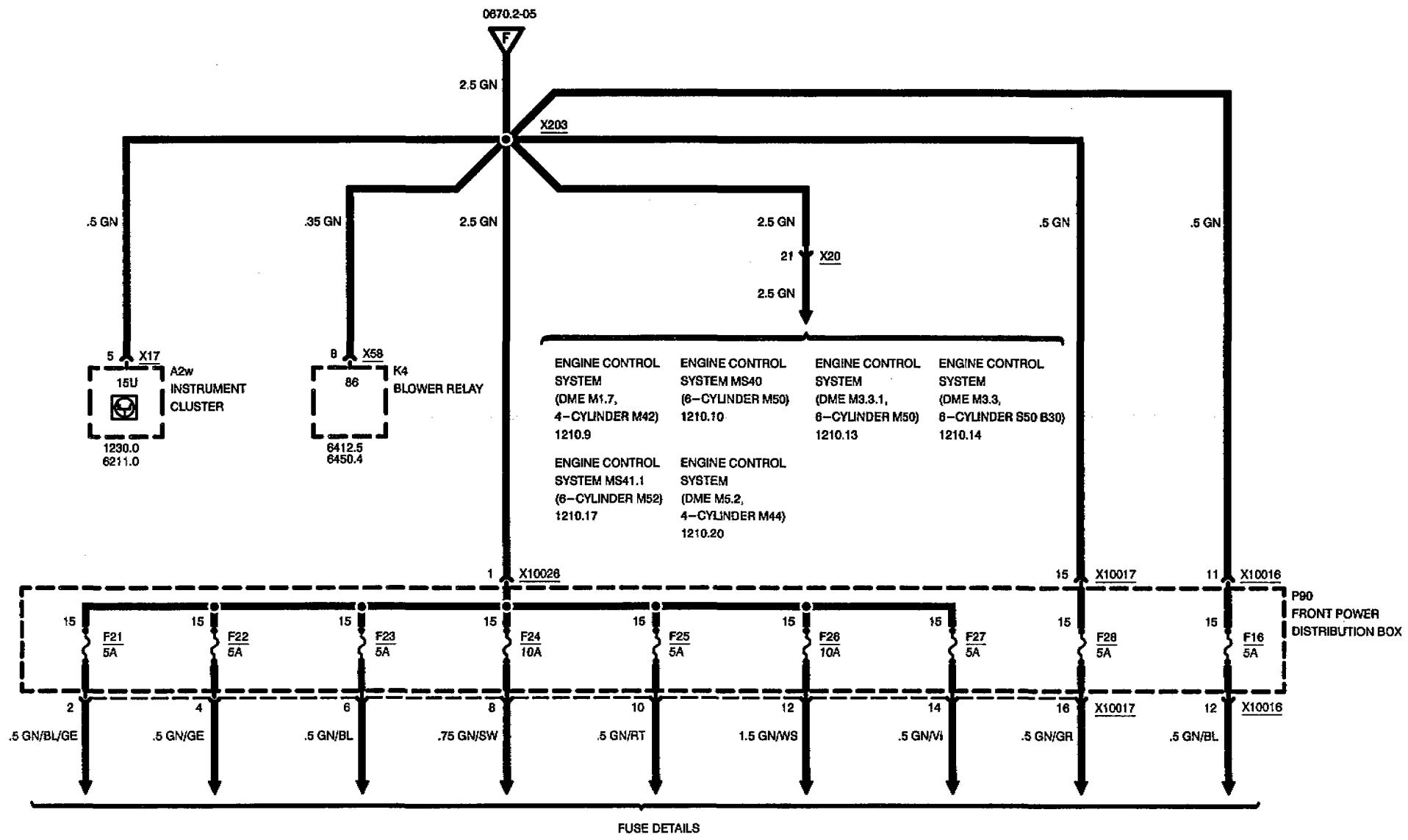
## POWER DISTRIBUTION

04/97

0670.2-05

1996



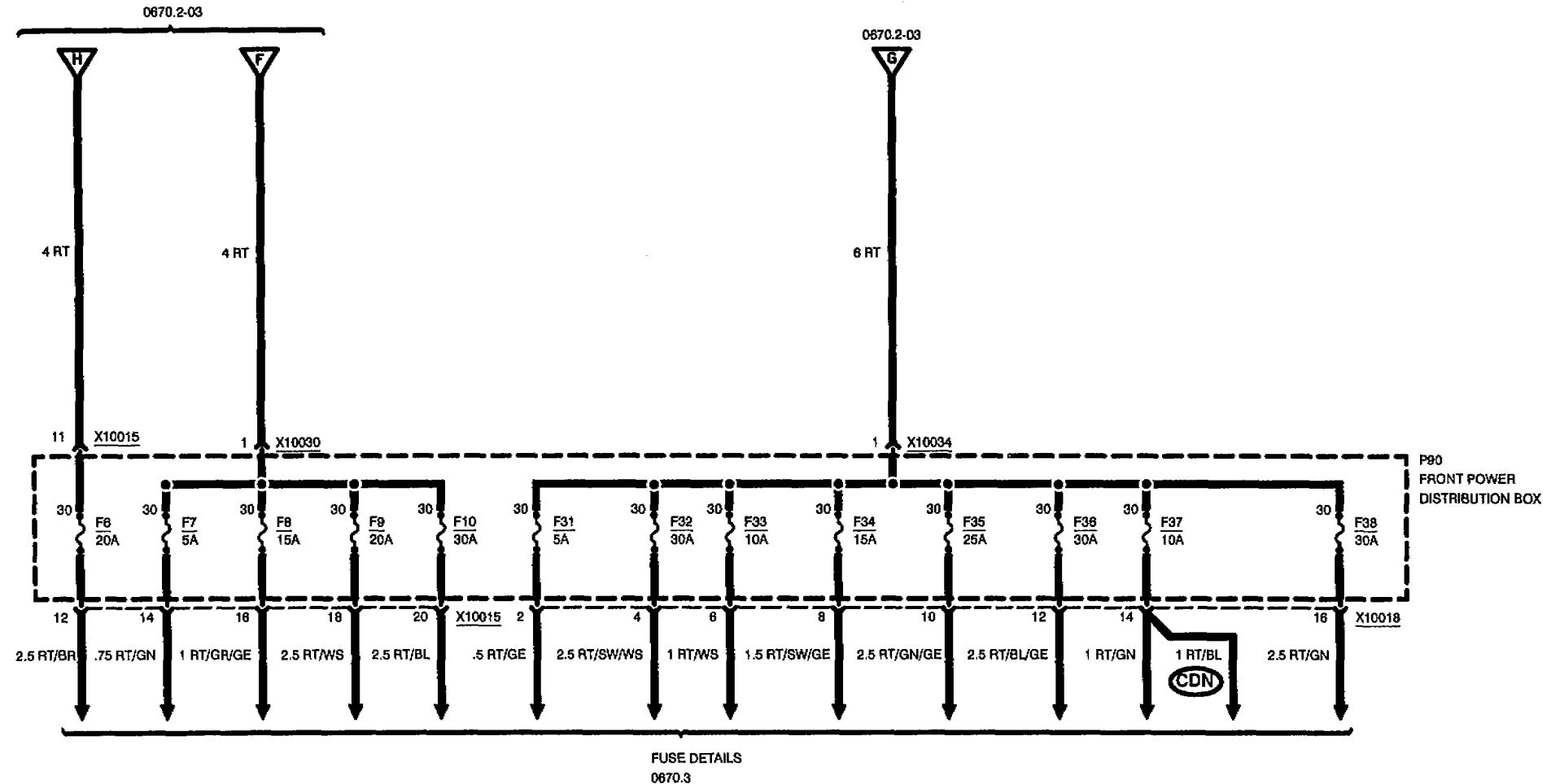




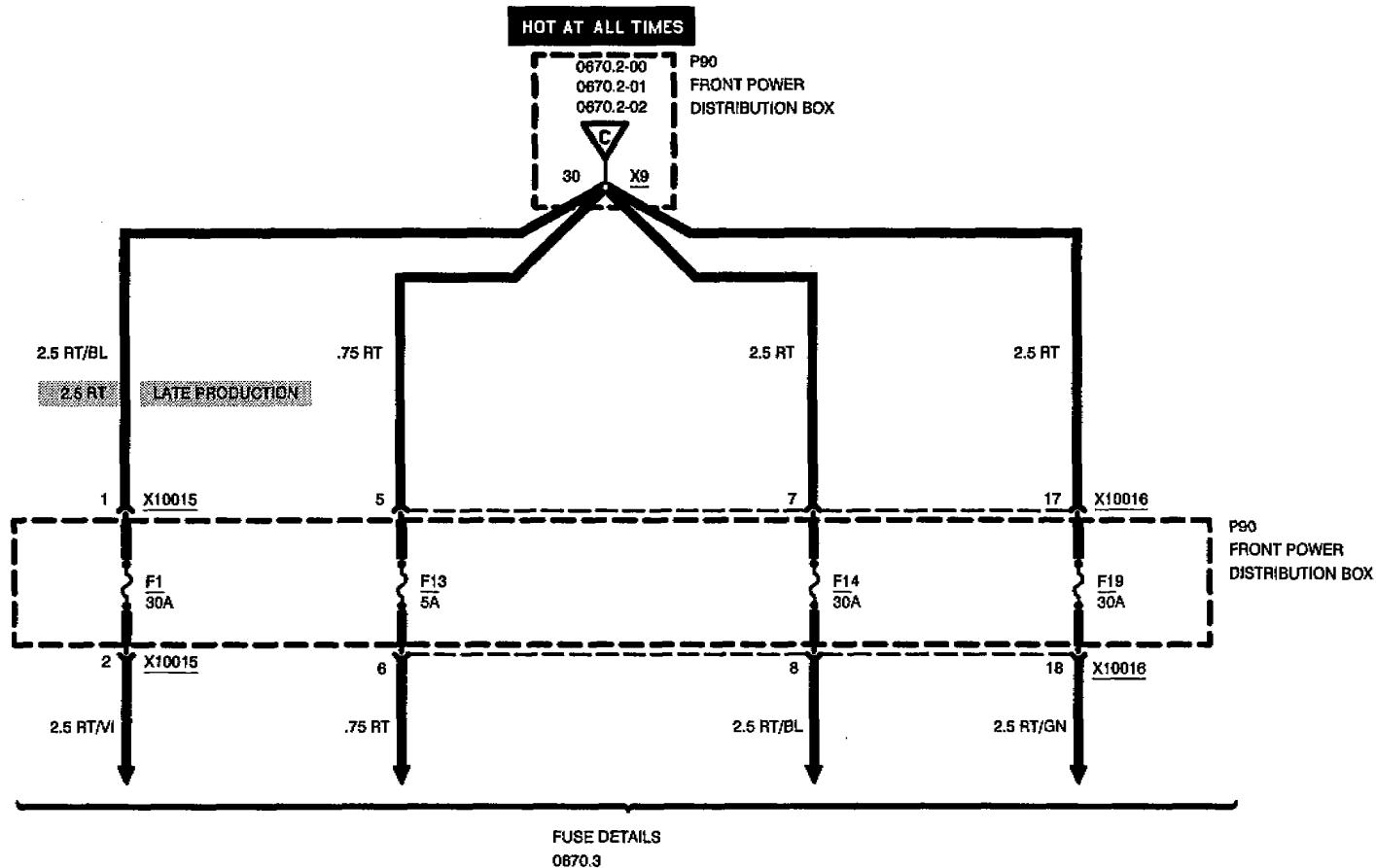
## POWER DISTRIBUTION

04/97

0670.2-07



1996





0670.3



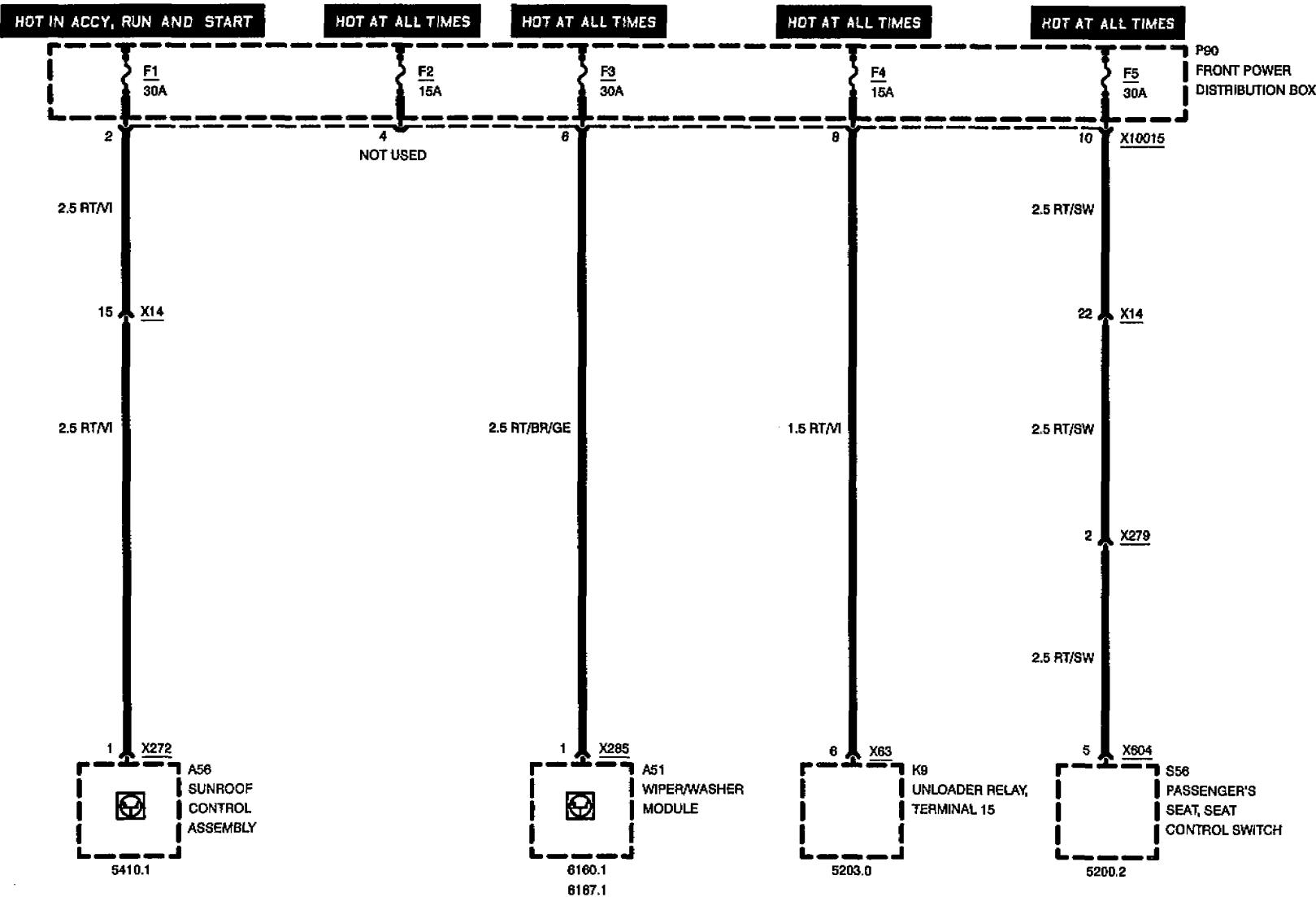
# FUSE DETAILS

## FUSES 1, 2, 3, 4, AND 5

04/97

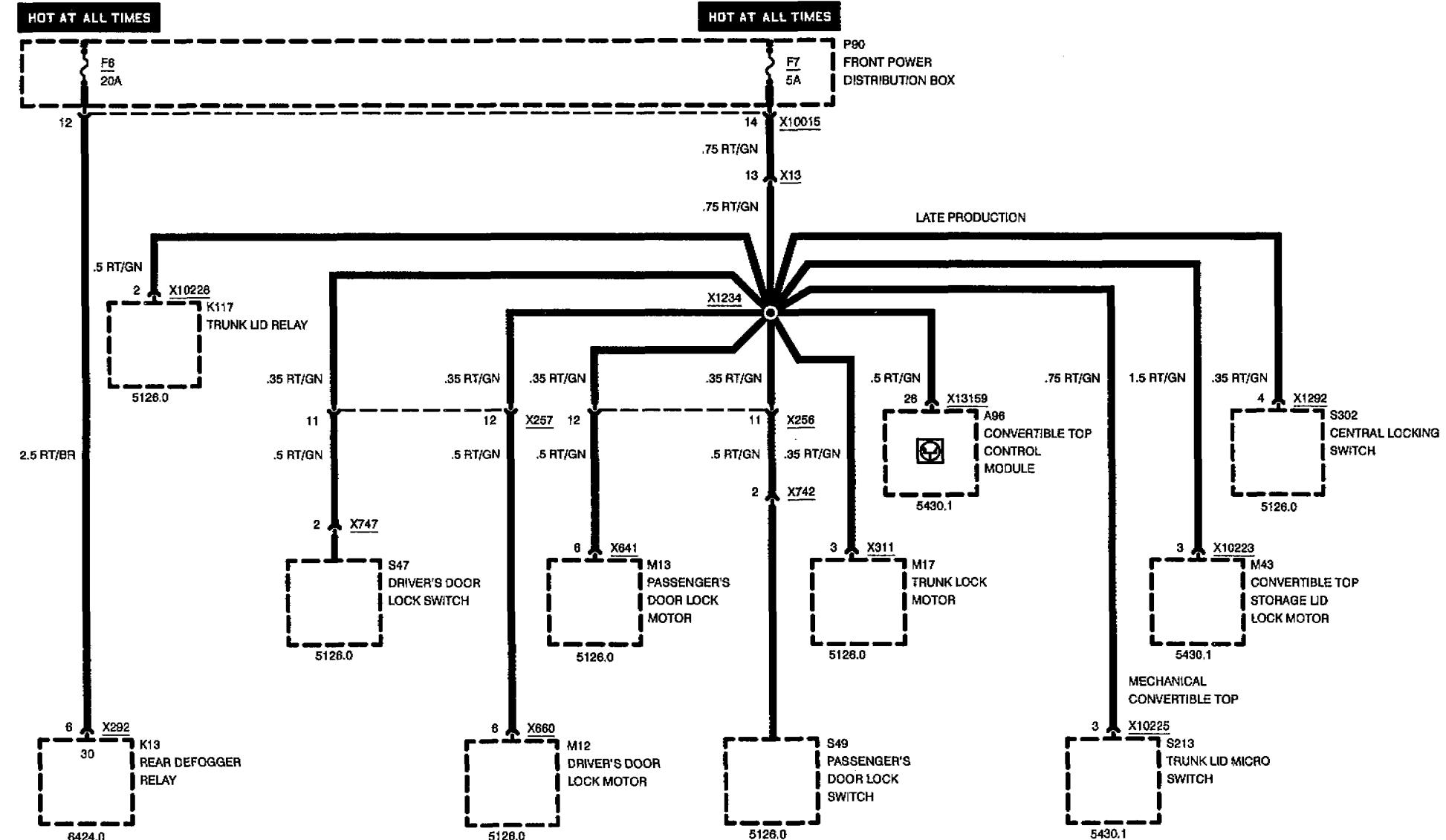
0670-3-00

1996



**BMW** **FUSE DETAILS**  
**3** **FUSES 6 AND 7**

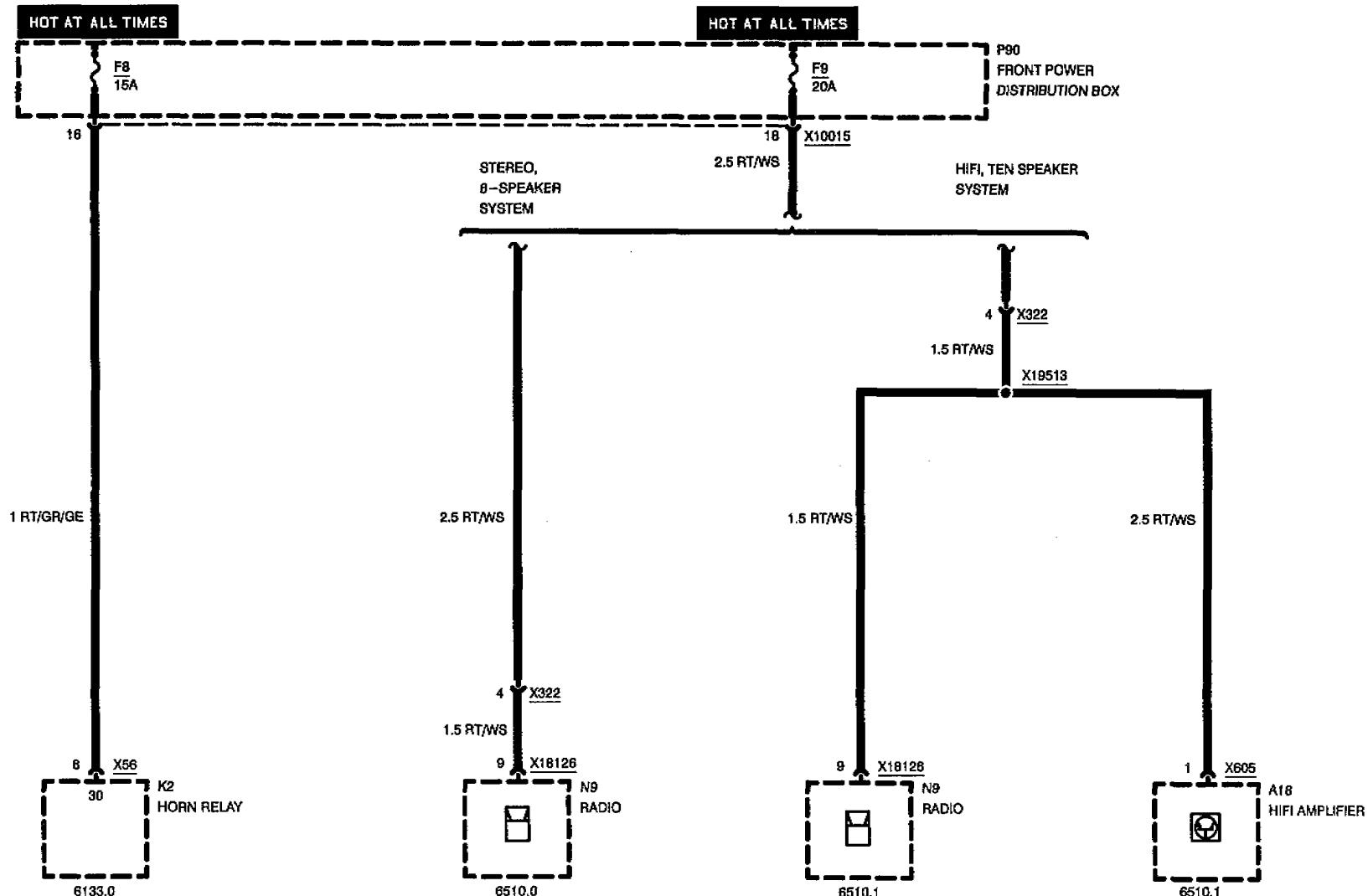
04/97





# FUSE DETAILS

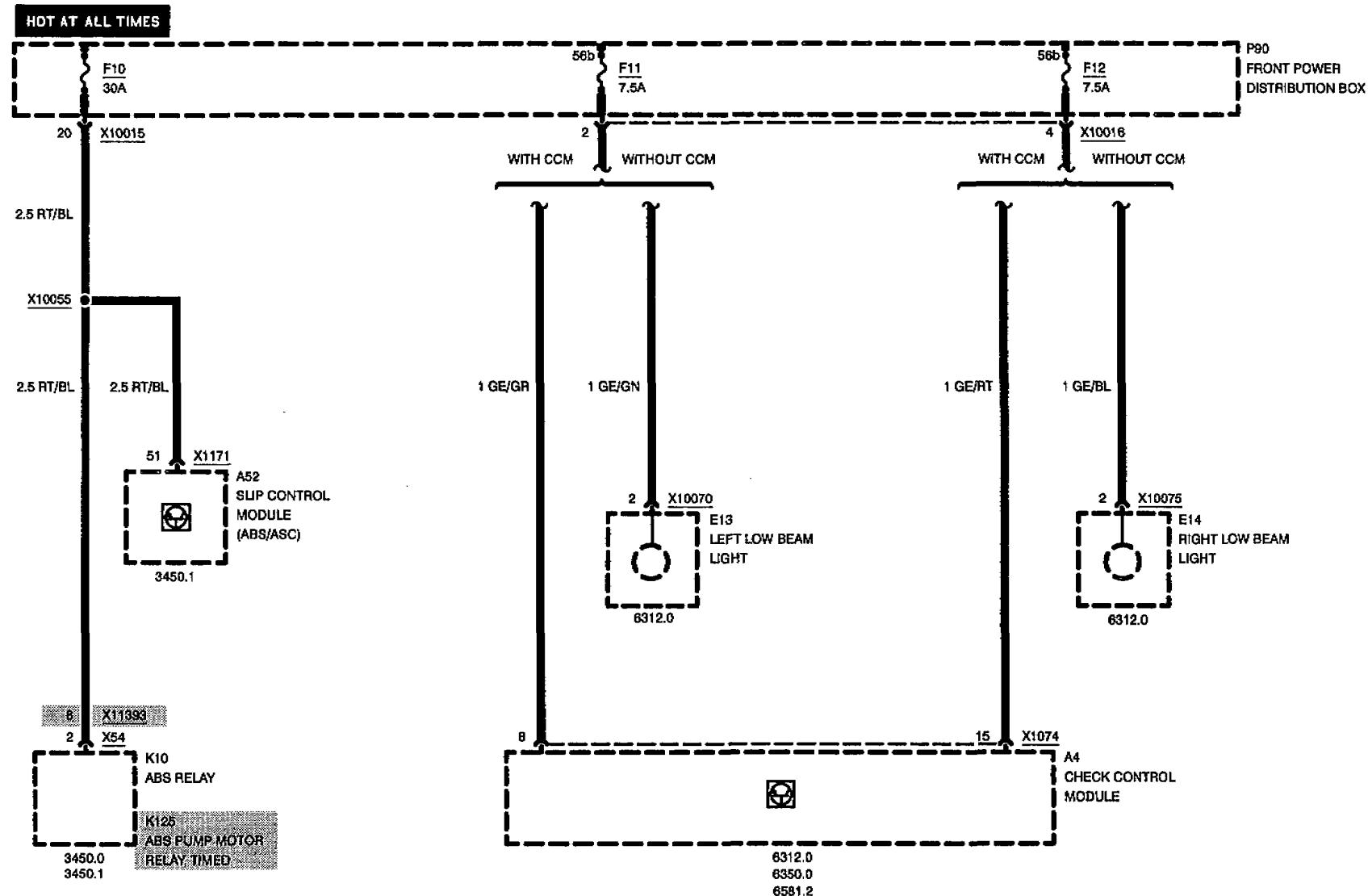
## FUSES 8 AND 9



04/97

0670.3-02

1996





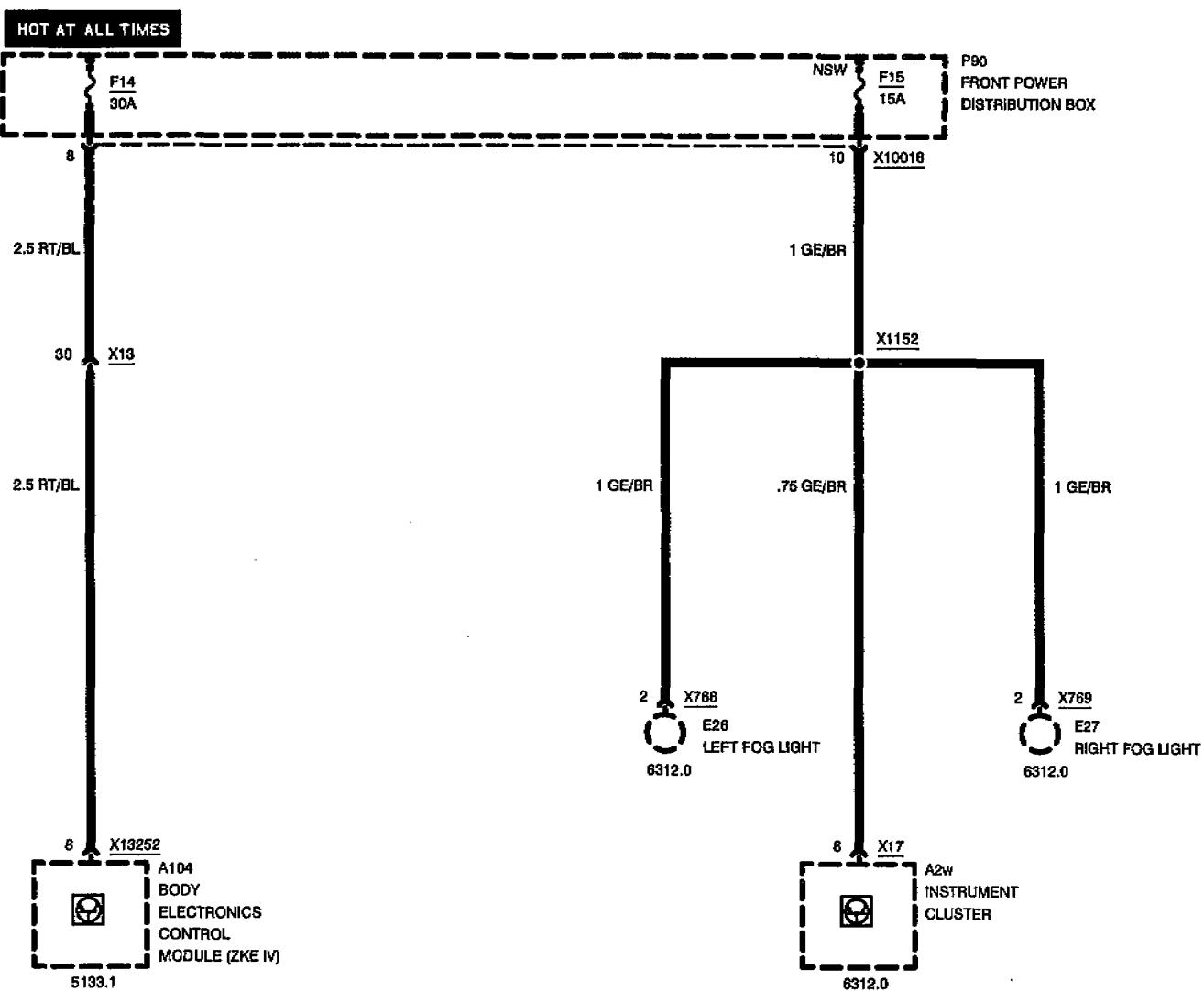
# FUSE DETAILS

## FUSES 14 AND 15

04/97

0670-3-04

1996





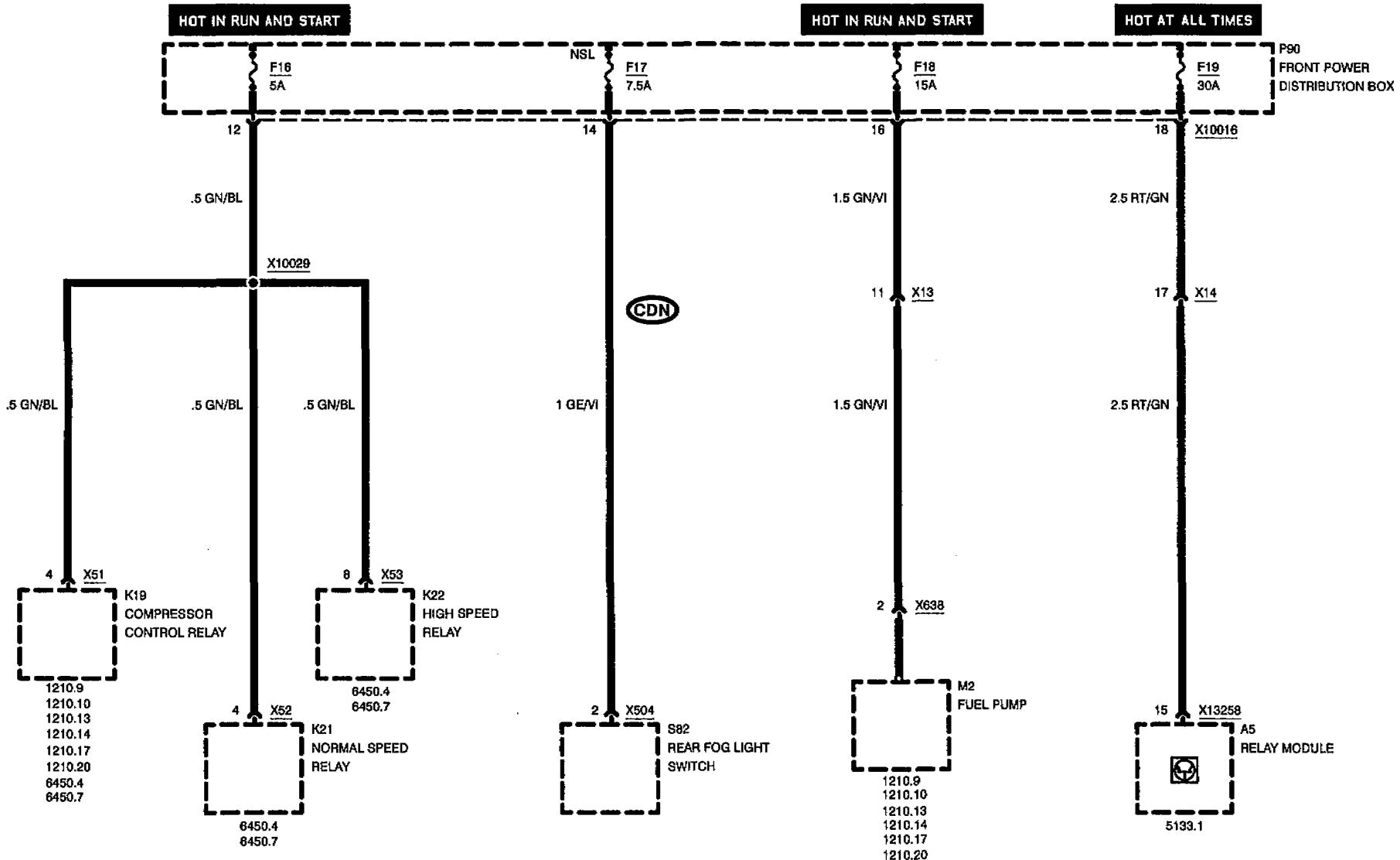
## FUSE DETAILS

### FUSES 16, 17, 18, AND 19

04/97

0670.3-05

1996

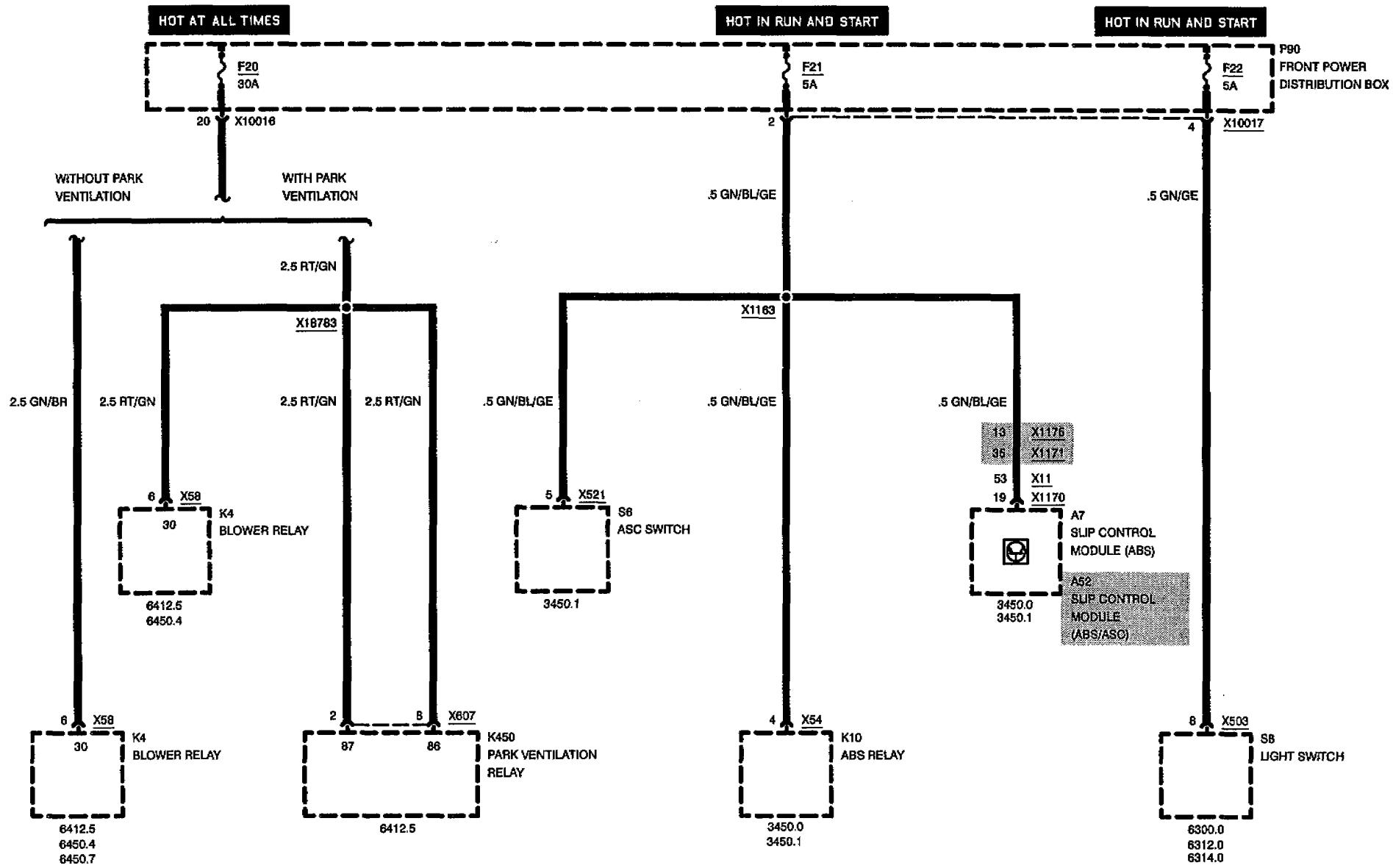




# FUSE DETAILS

## FUSES 20, 21, AND 22

04/97



0670-3-06

1996

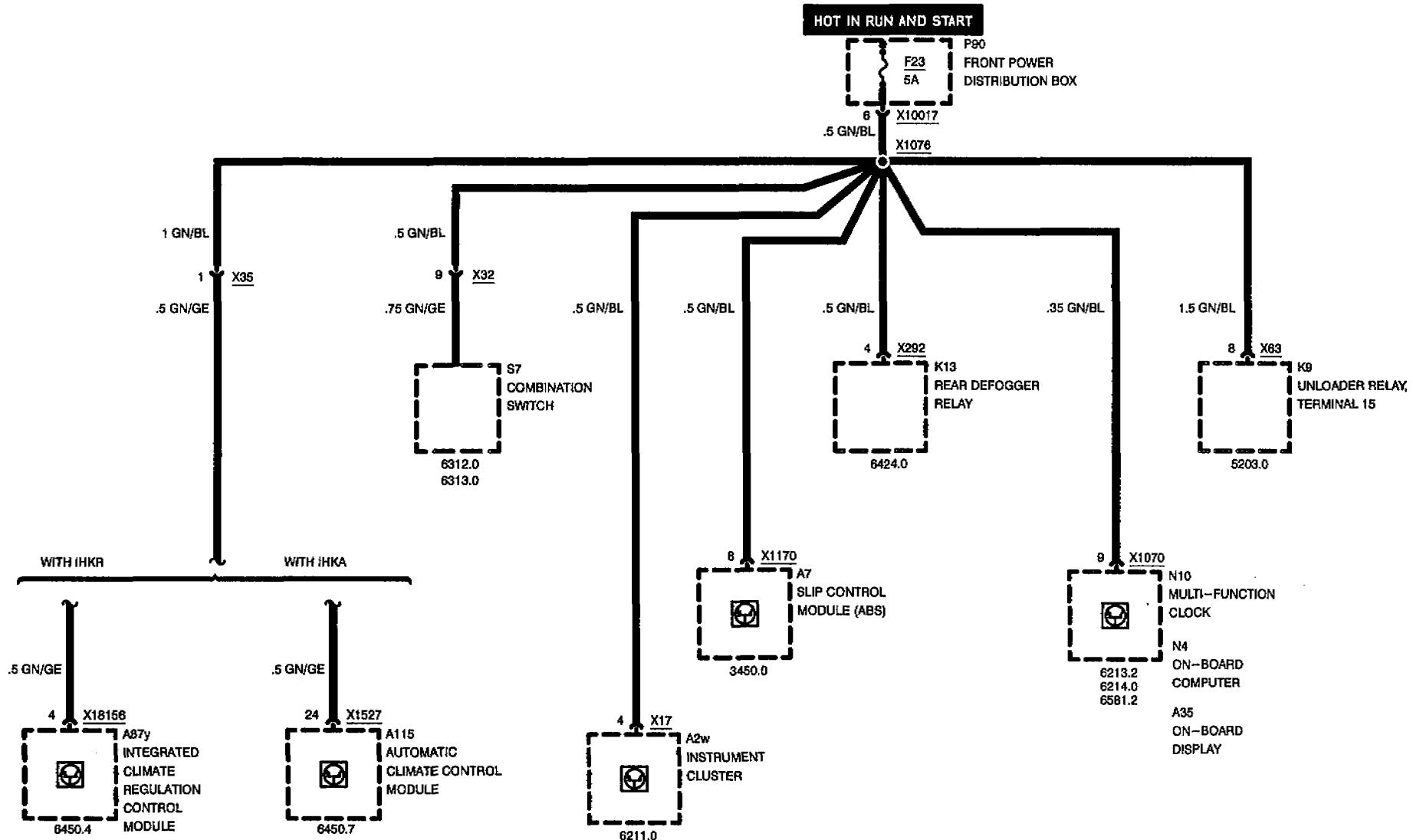


## FUSE DETAILS

### FUSE 23

04/97

0670.3-07



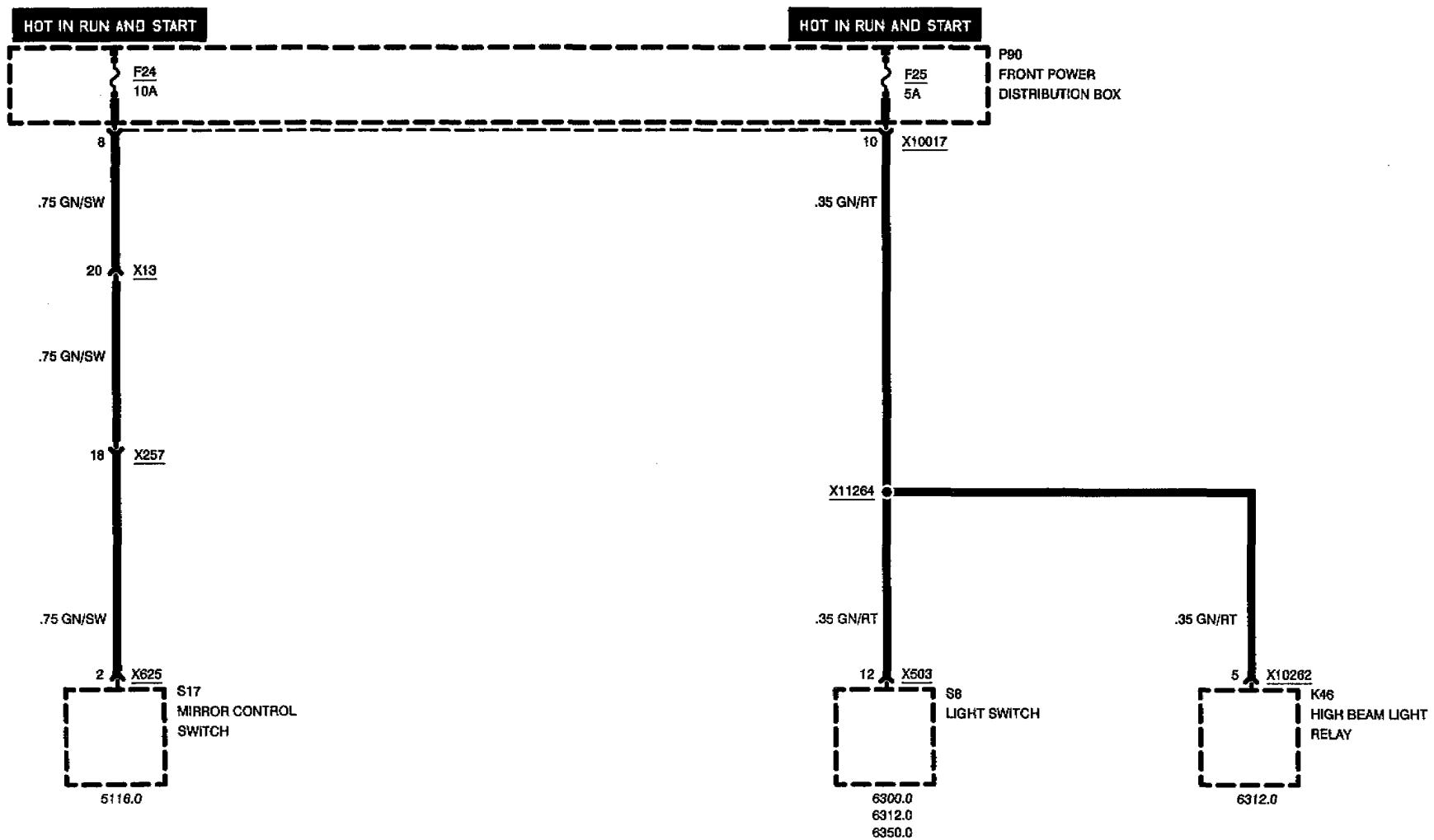
1996



## FUSE DETAILS

## **FUSES 24 AND 25**

04/97



0670-3-08

1966



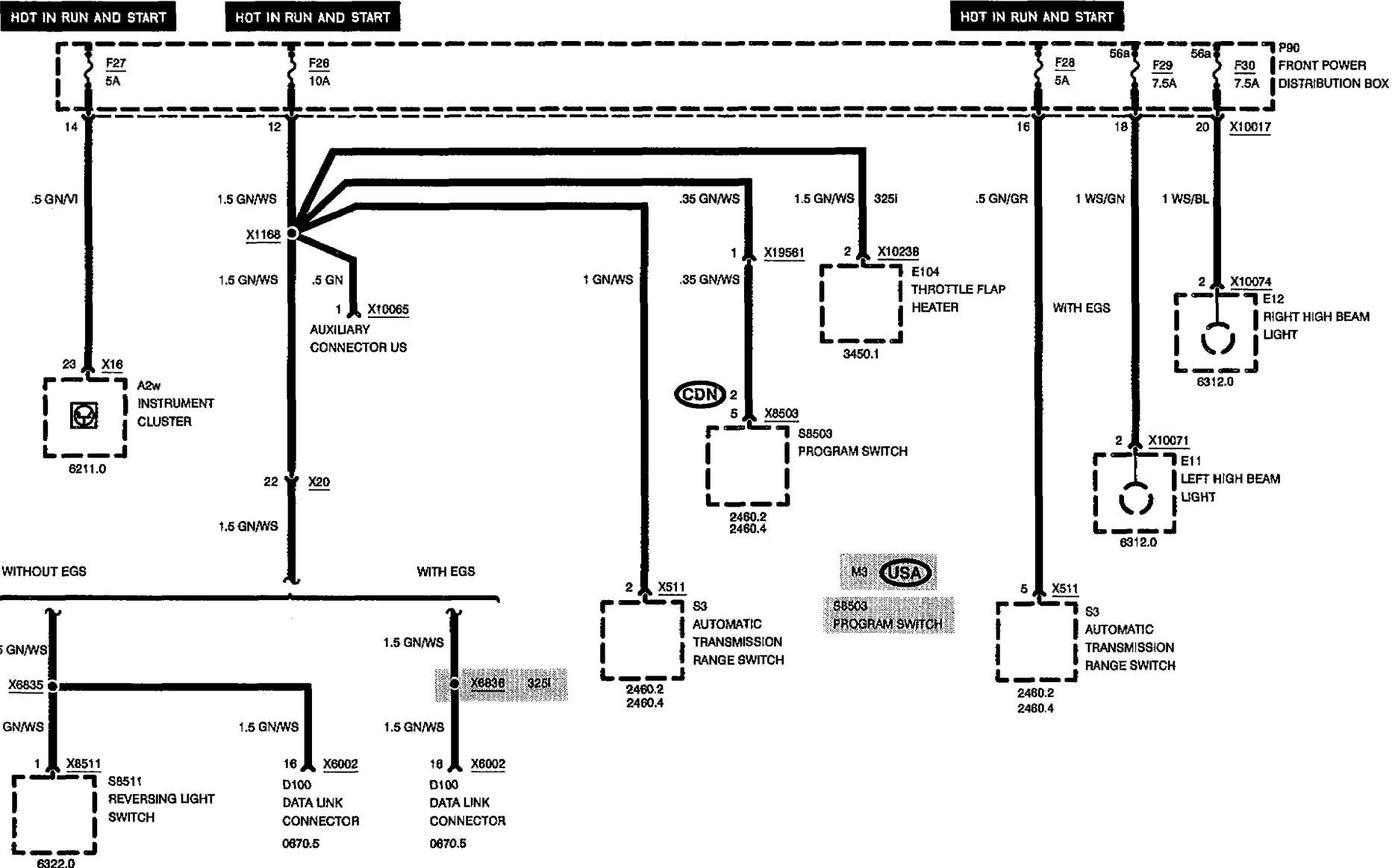
## FUSE DETAILS

### FUSES 26, 27, 28, 29, AND 30

04/97

0670.3-09

1996

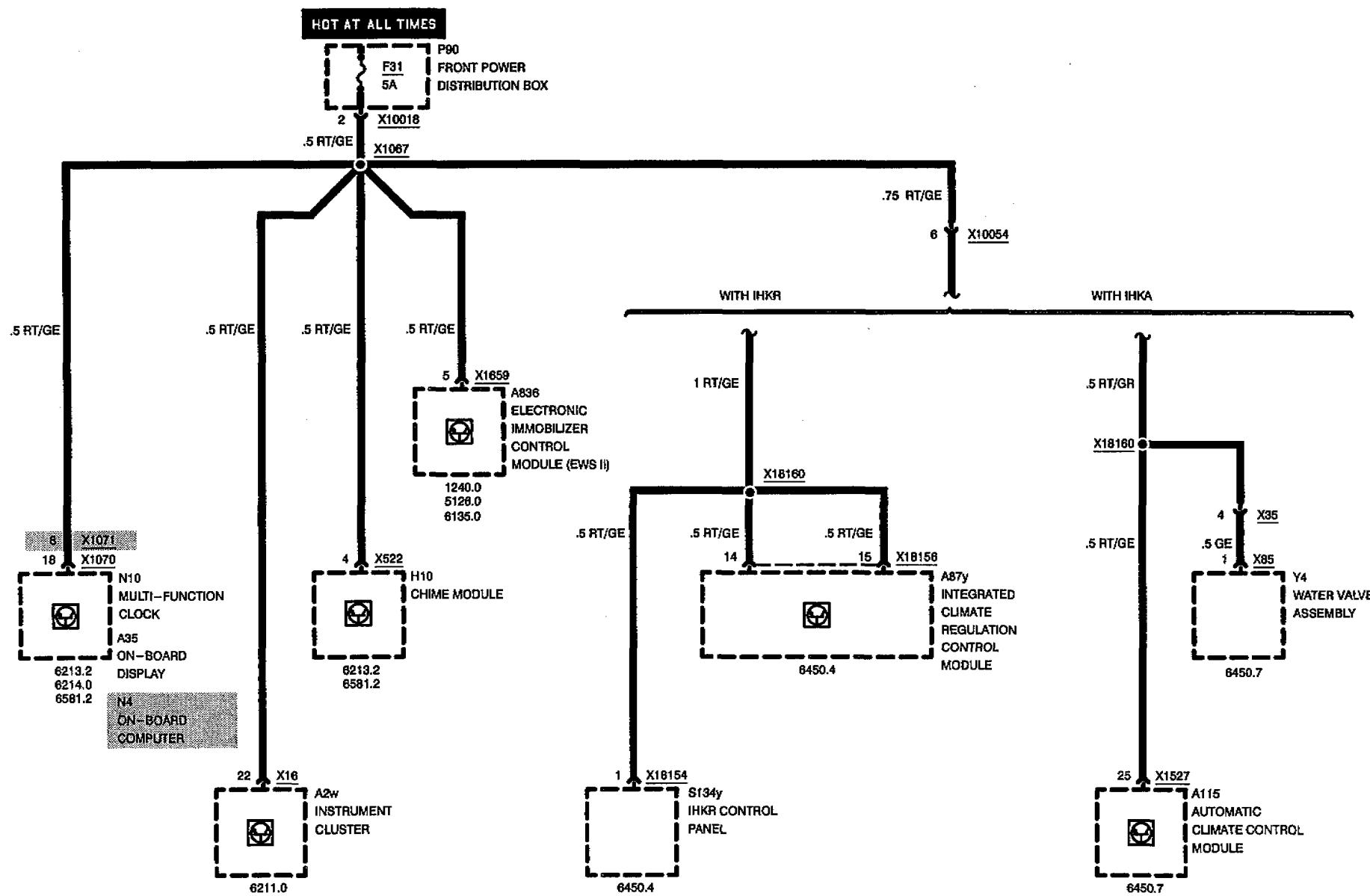


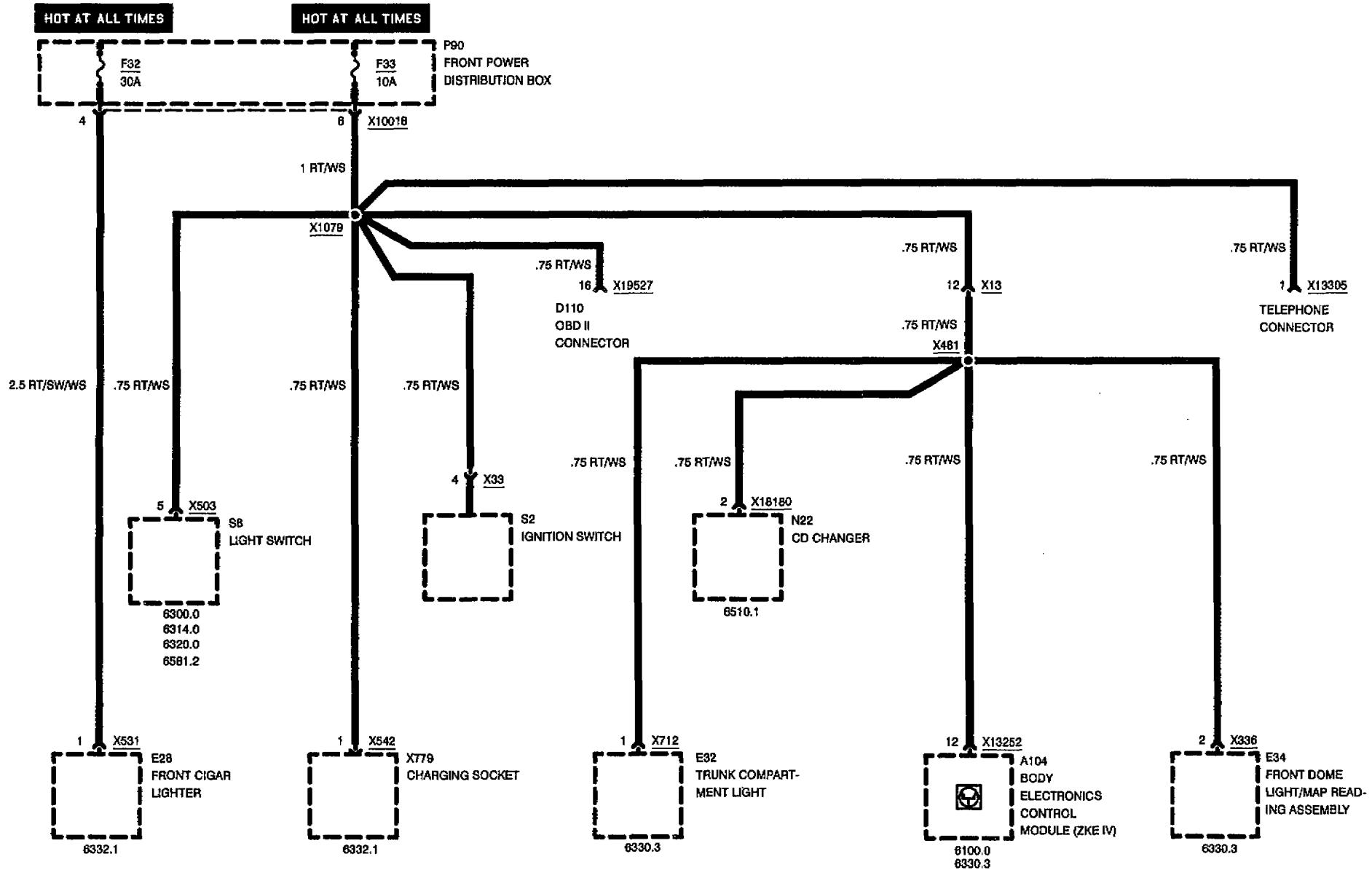


# FUSE DETAILS

## FUSE 31

04/97



**BMW FUSE DETAILS**  
**3 FUSES 32 AND 33**




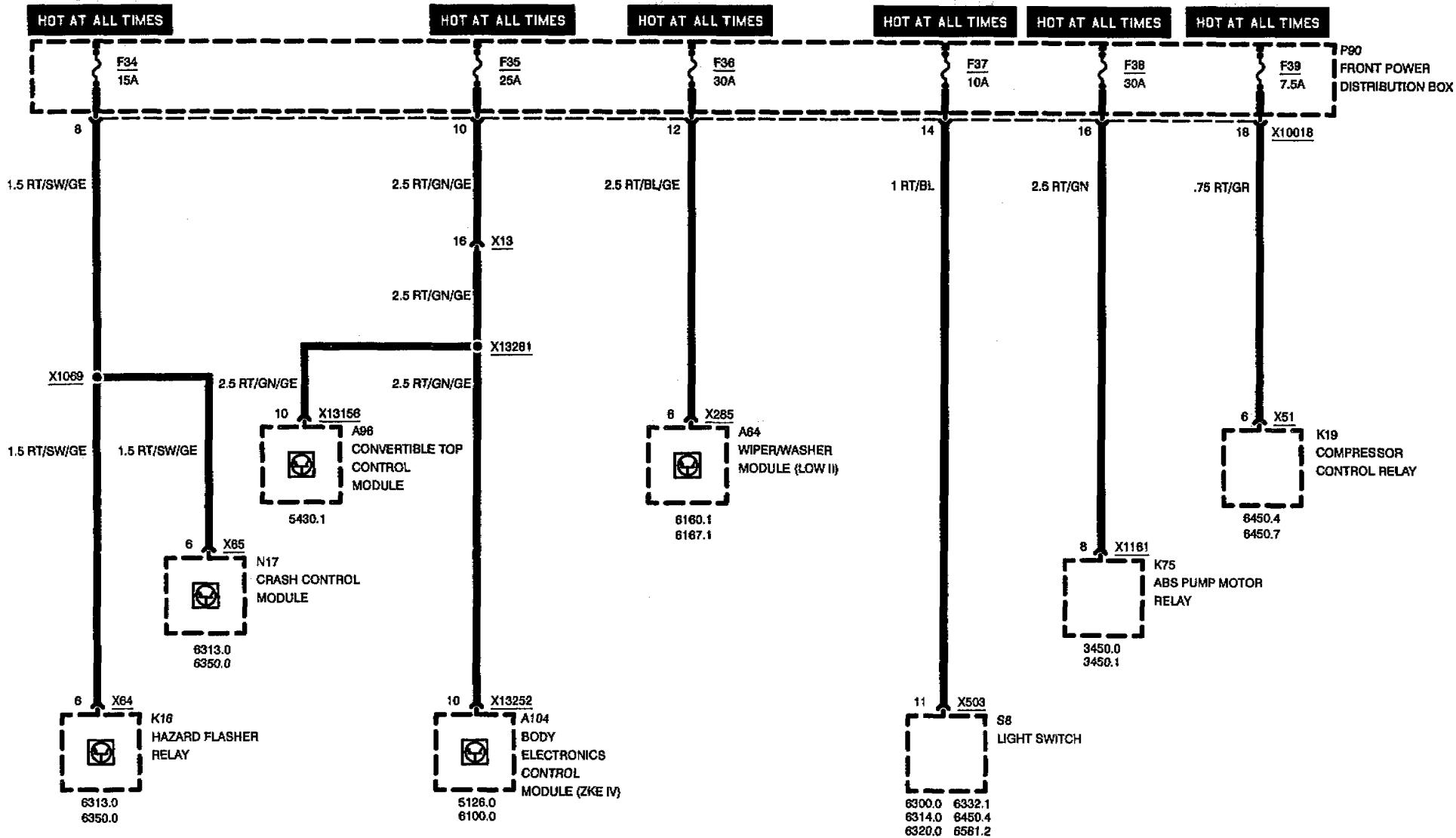
# FUSE DETAILS

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

04/97

0670.3-12

1996



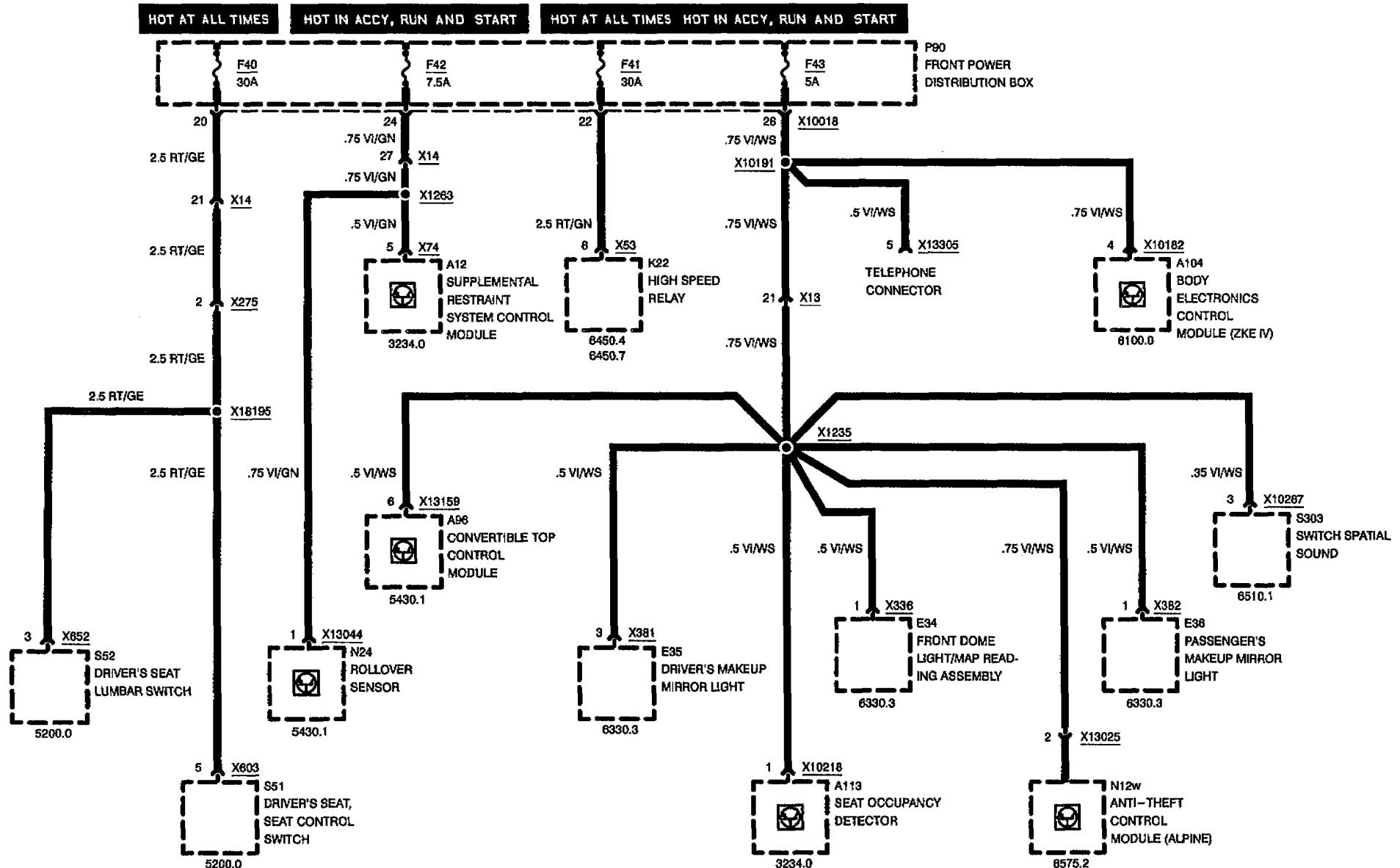


## FUSE DETAILS

### FUSES 40, 41, 42, AND 43

04/97

0670.3-13



1996



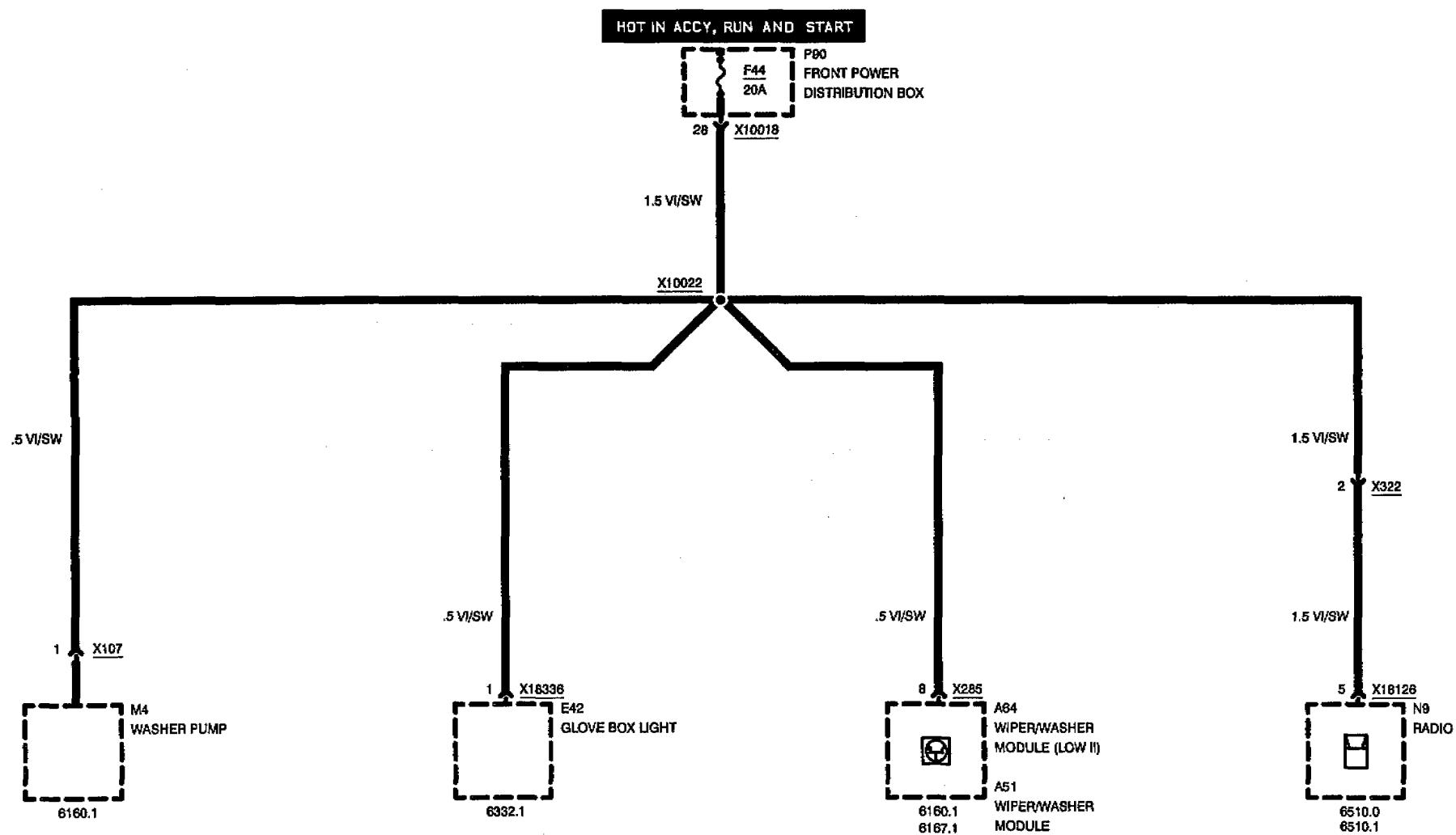
# FUSE DETAILS

## FUSE 44

04/97

0670-3-14

1996





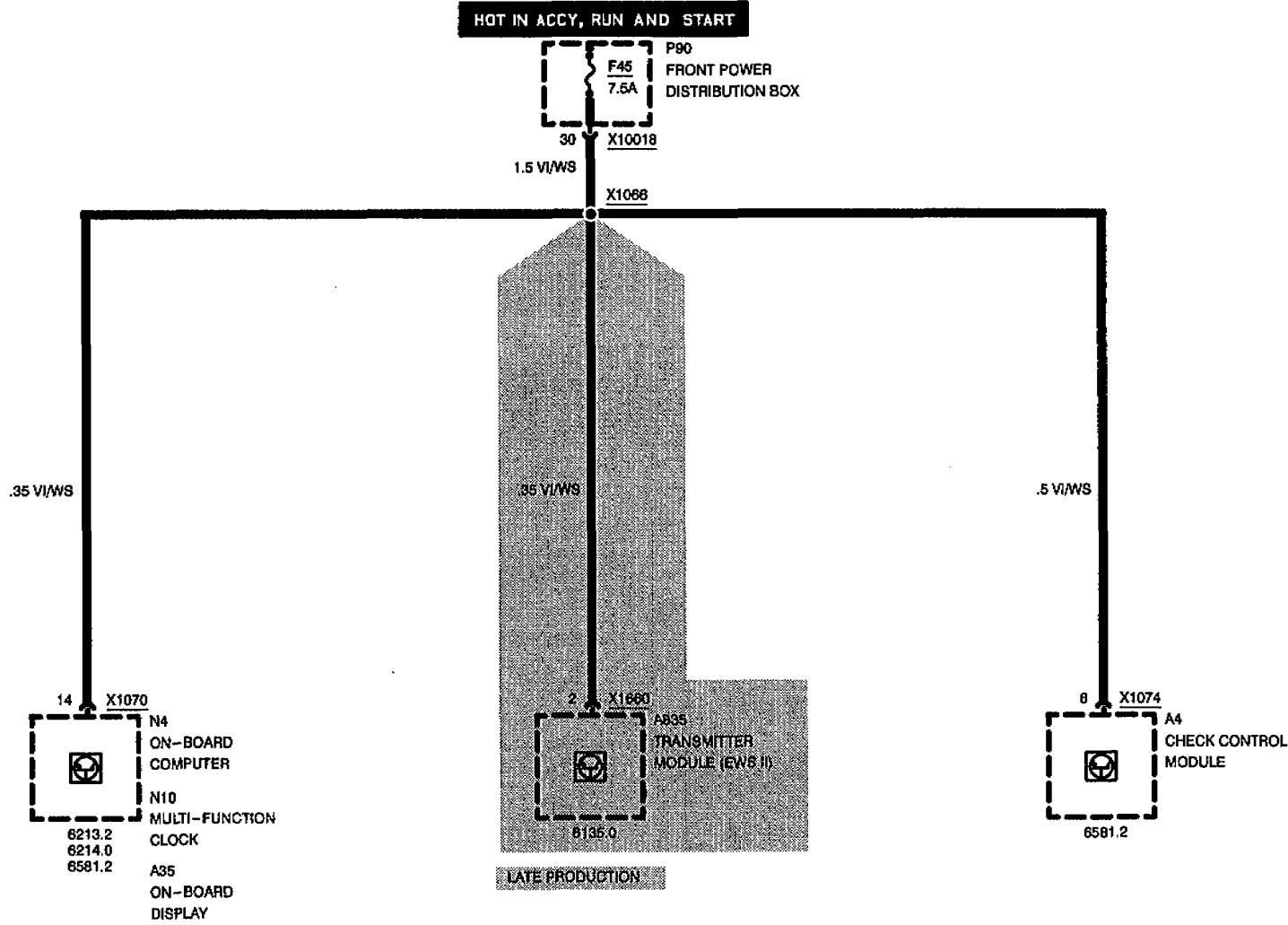
## FUSE DETAILS

### FUSE 45

04/97

0670.3-15

1996





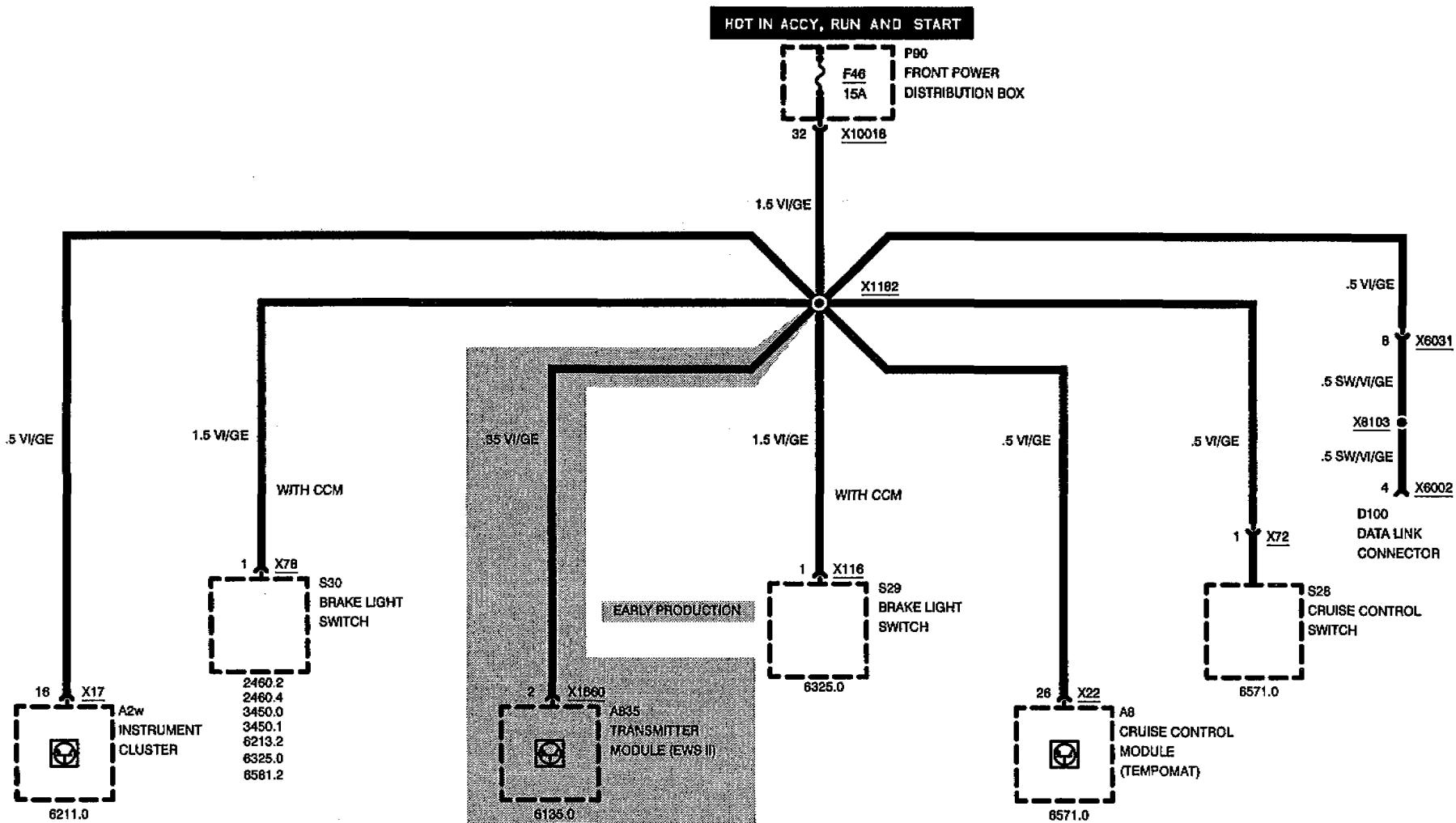
# FUSE DETAILS

## FUSE 46

04/97

0670-3-16

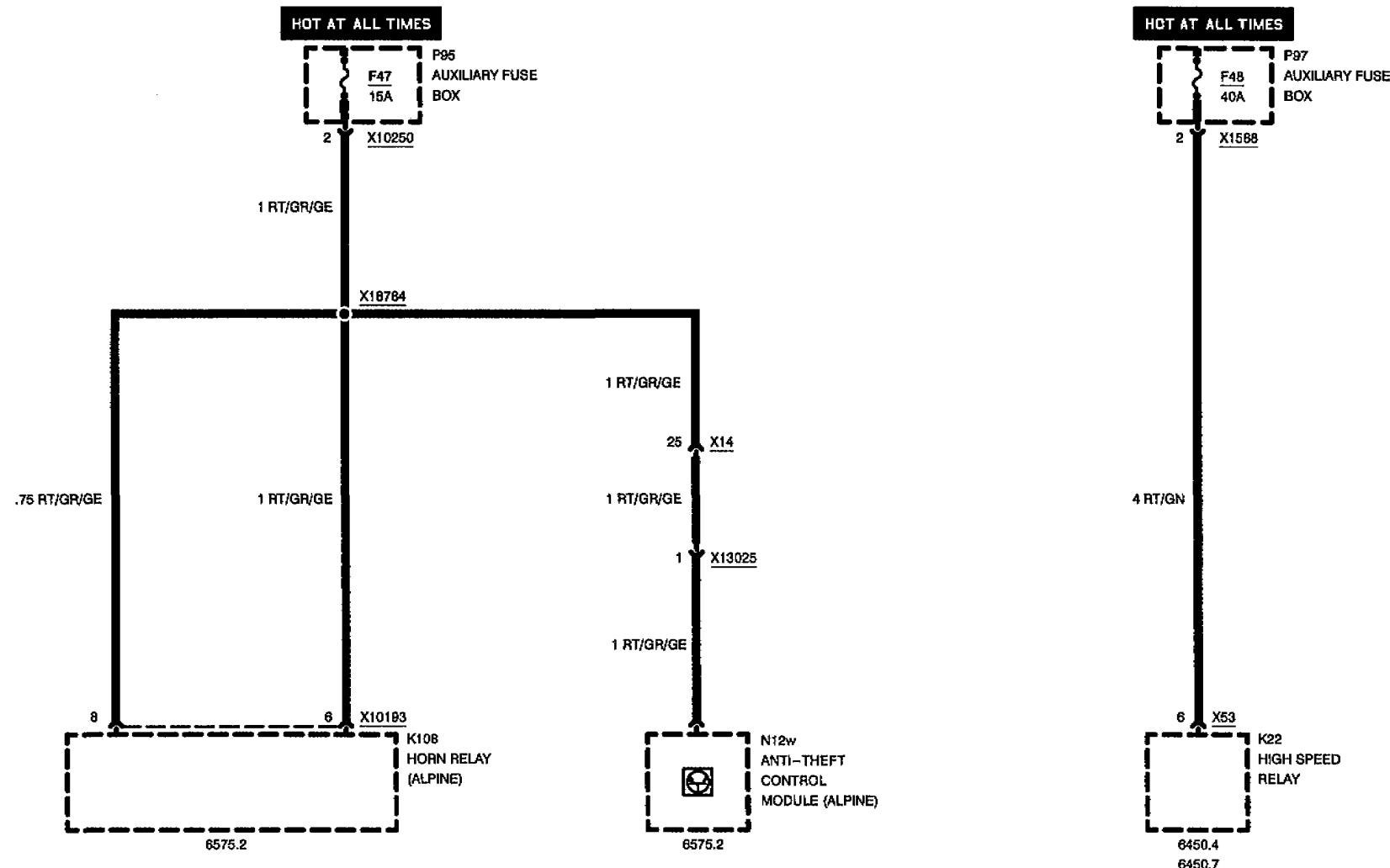
1996





## FUSE DETAILS

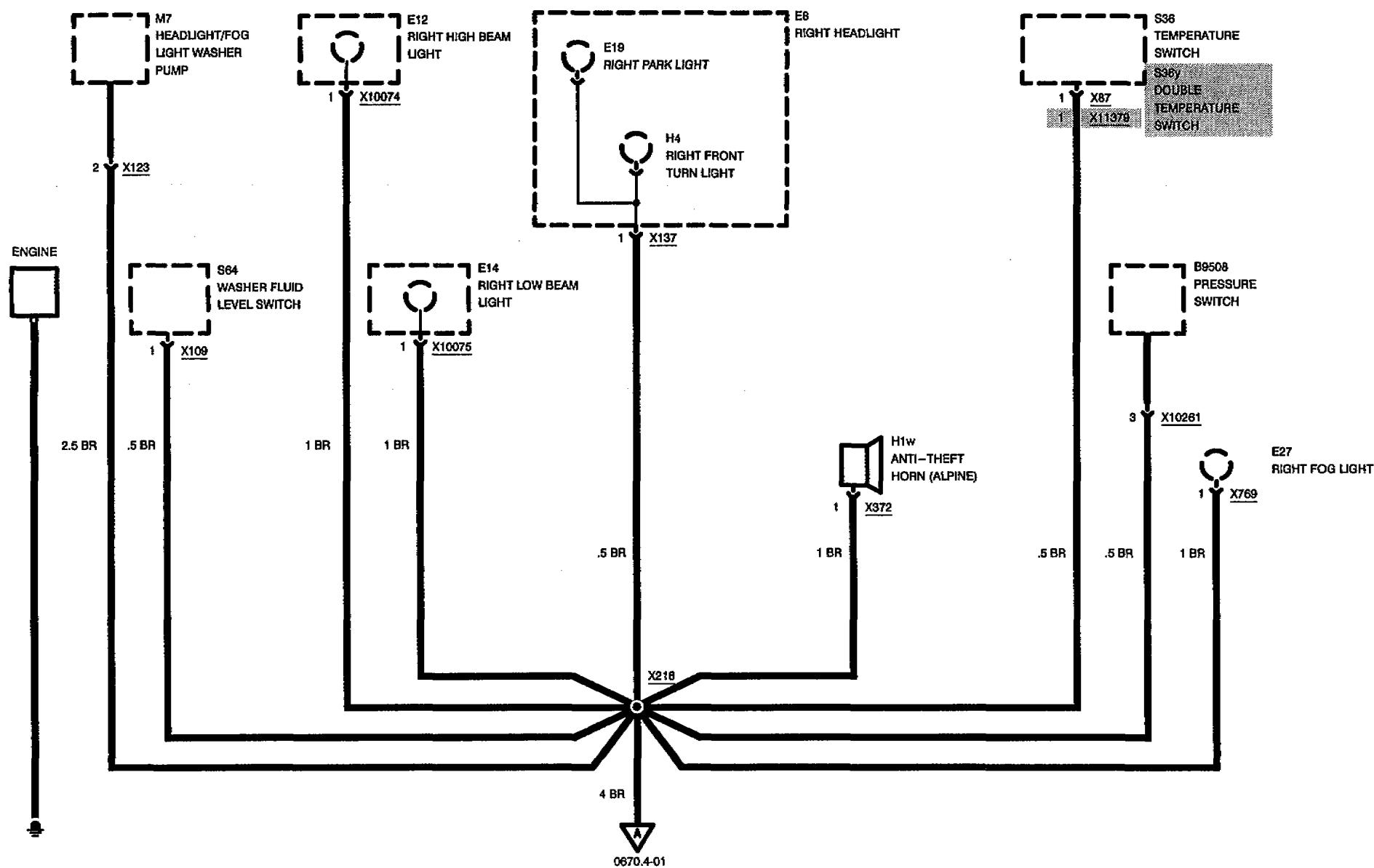
### FUSES 47 AND 48





# GROUND DISTRIBUTION

## GROUND X165



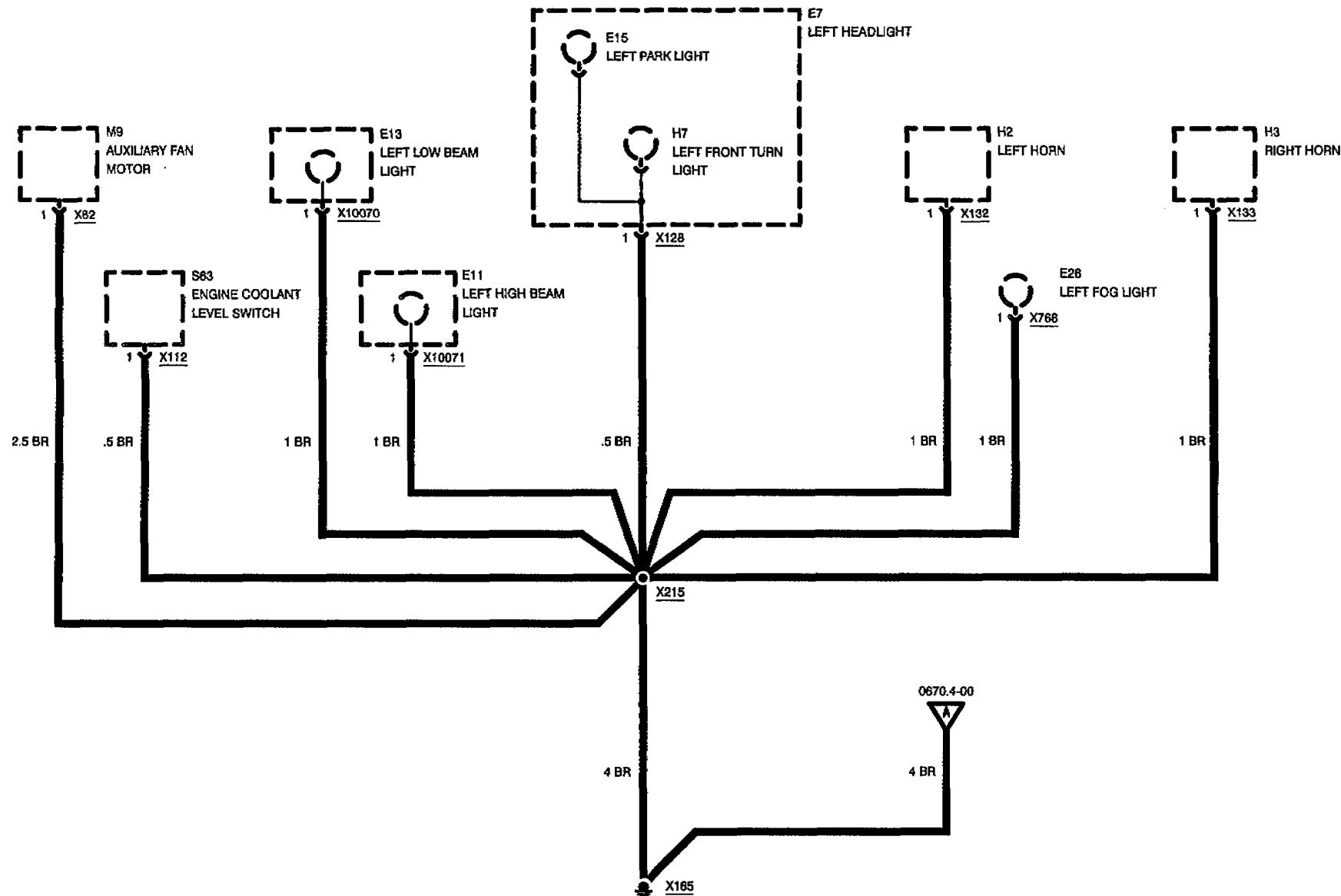


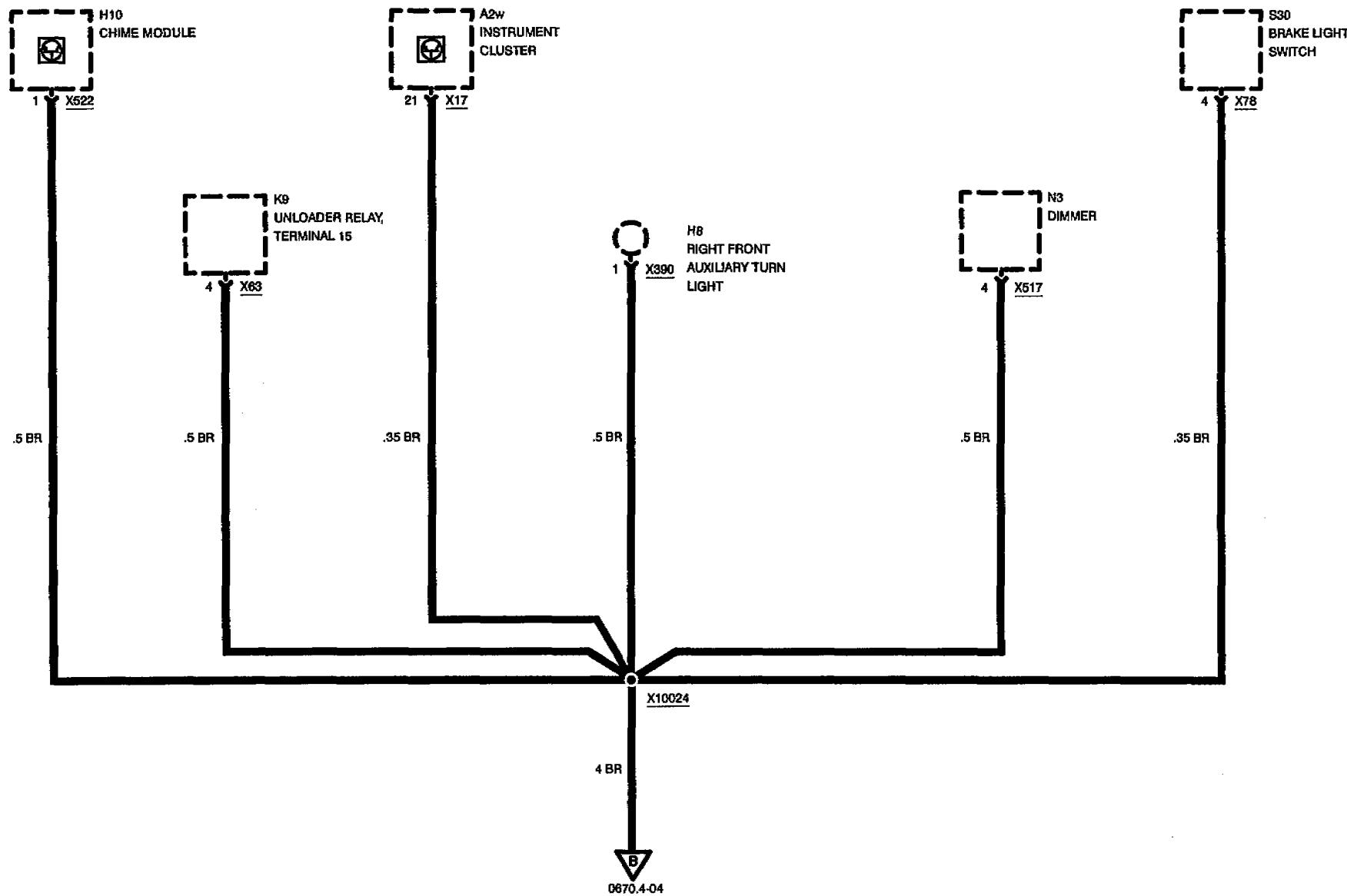
## GROUND DISTRIBUTION

### GROUND X165

04/97

0670.4-01

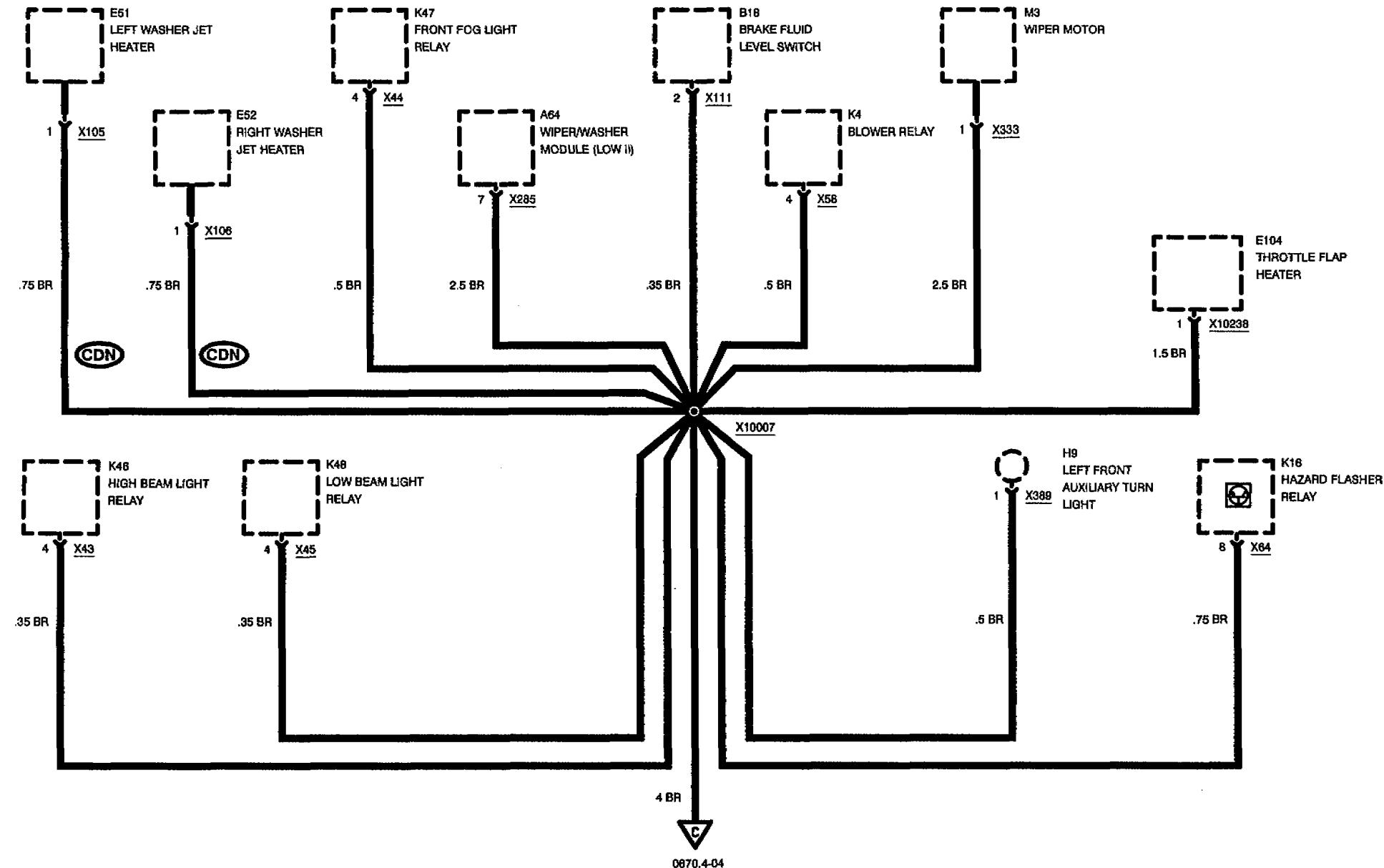






## GROUND DISTRIBUTION

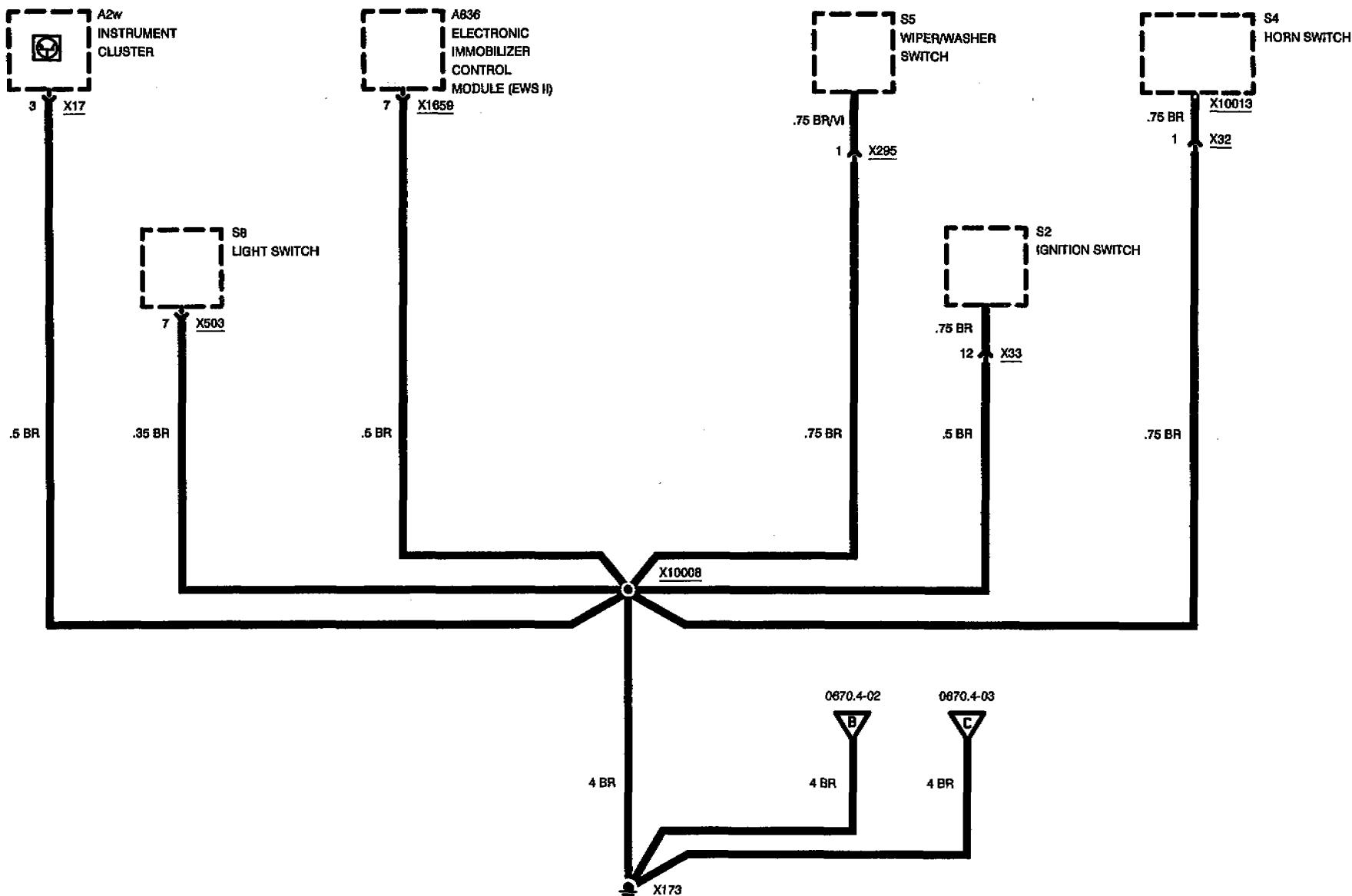
### GROUND X173





# GROUND DISTRIBUTION

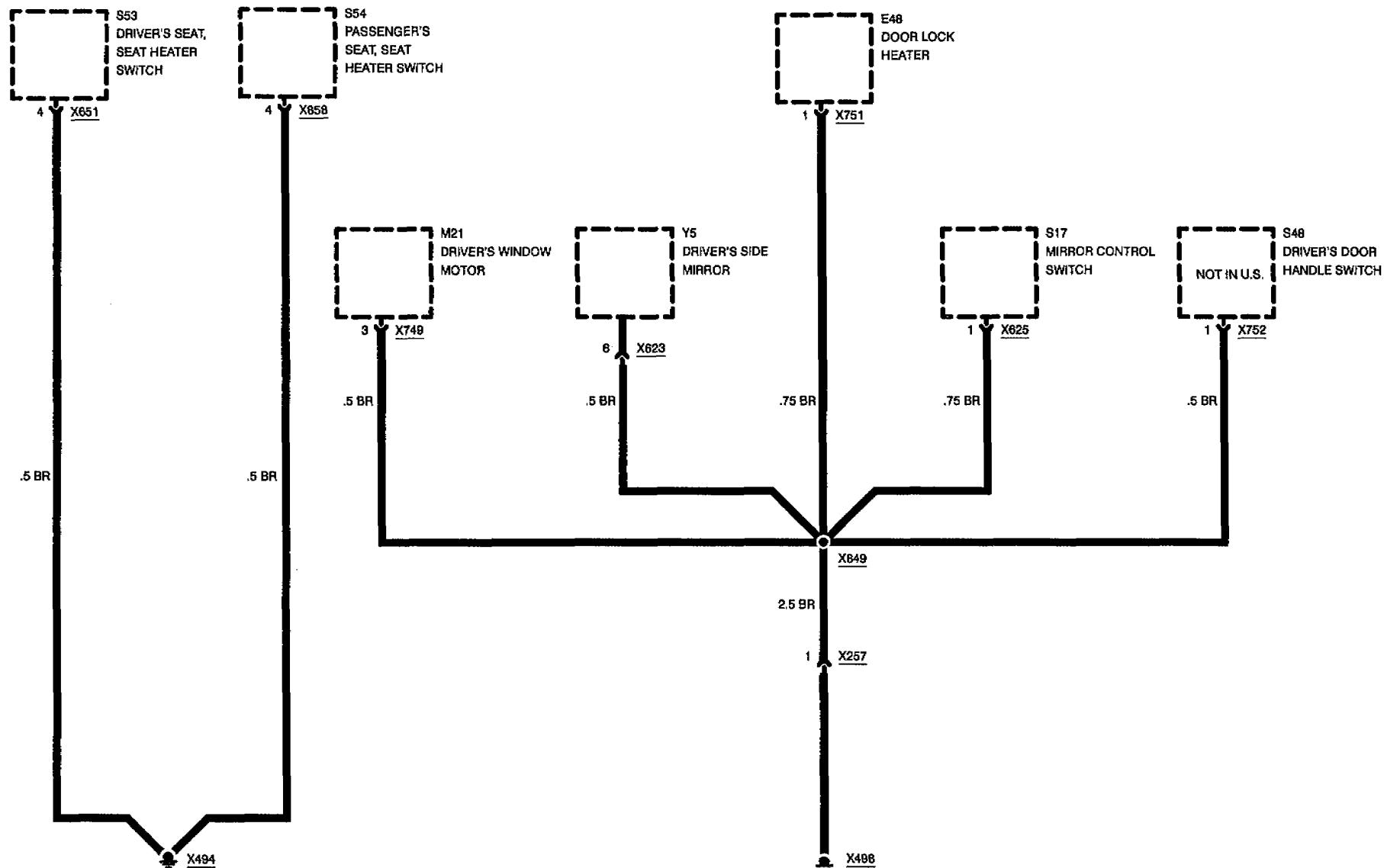
## GROUND X173





## GROUND DISTRIBUTION

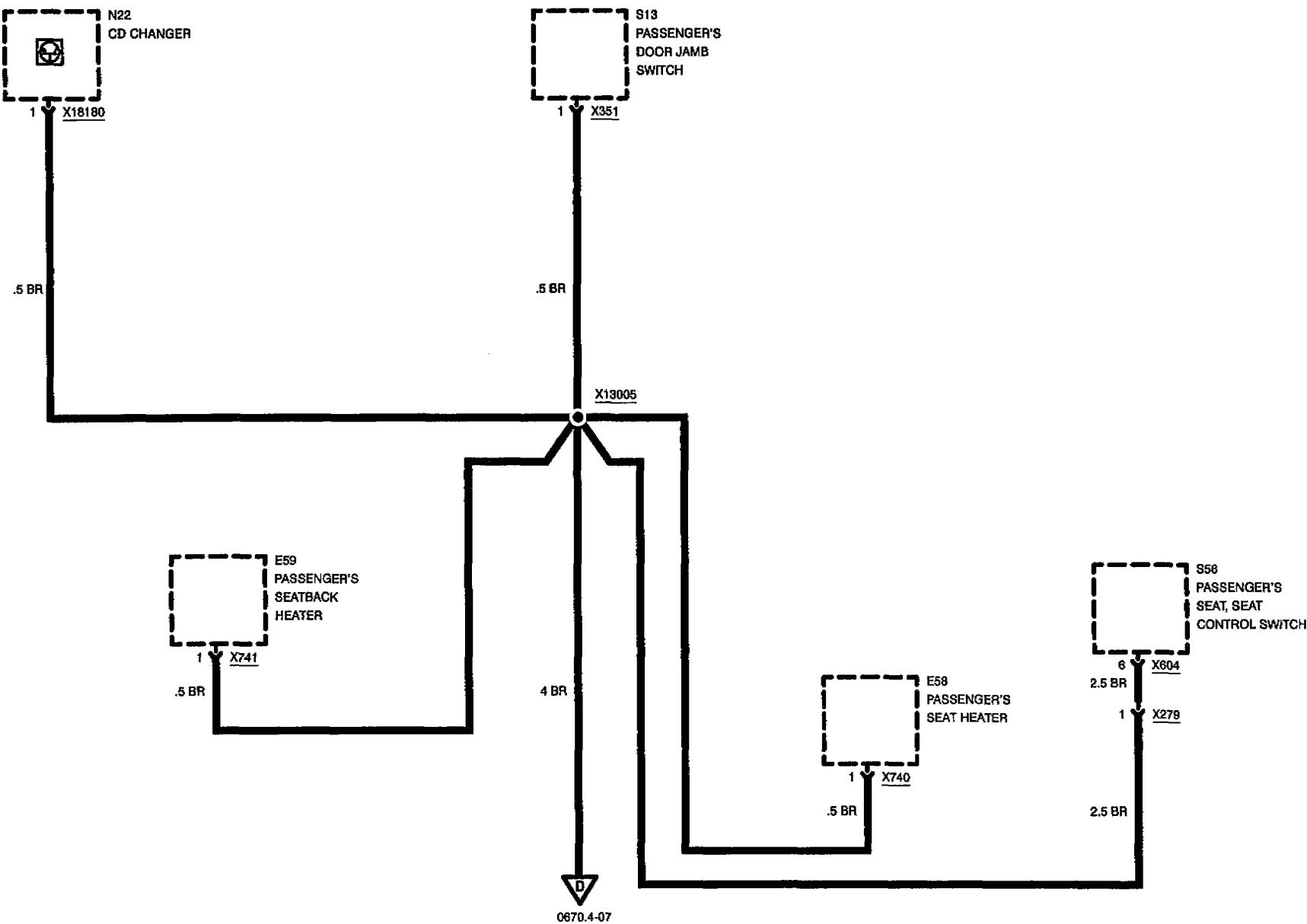
### GROUNDS X494 AND X498





# GROUND DISTRIBUTION

## GROUND X495



04/97

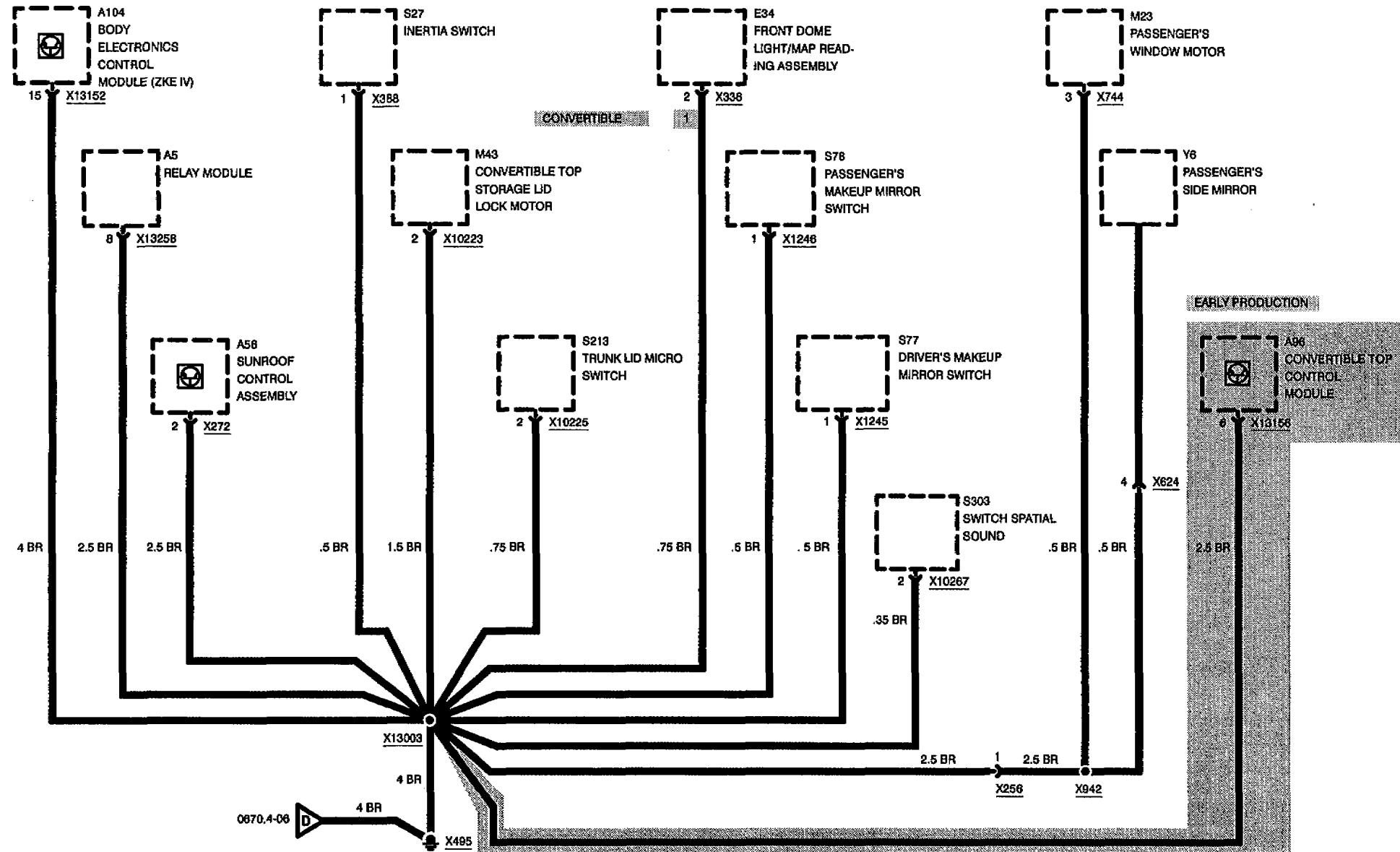
0670.4-06

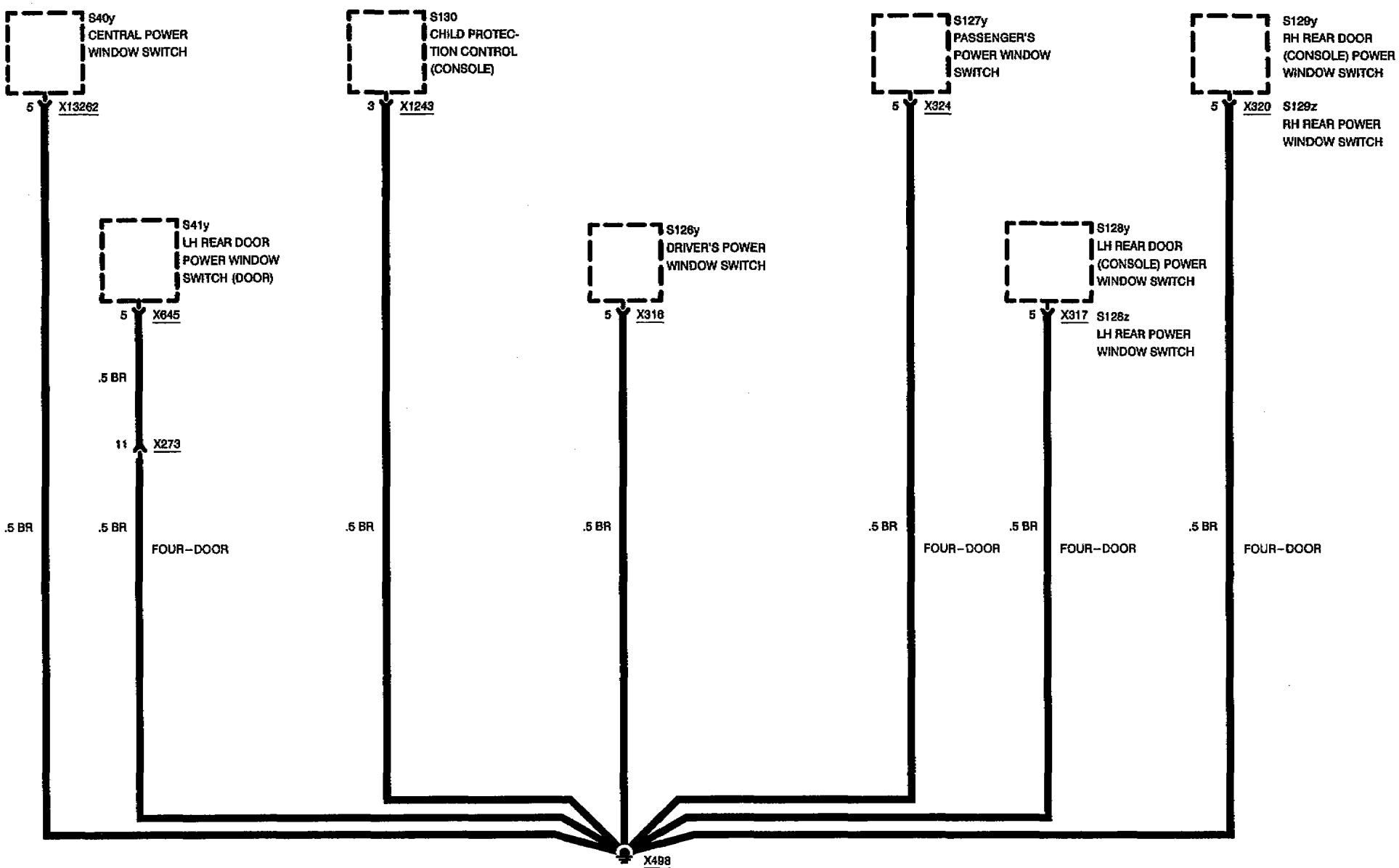
1996



## GROUND DISTRIBUTION

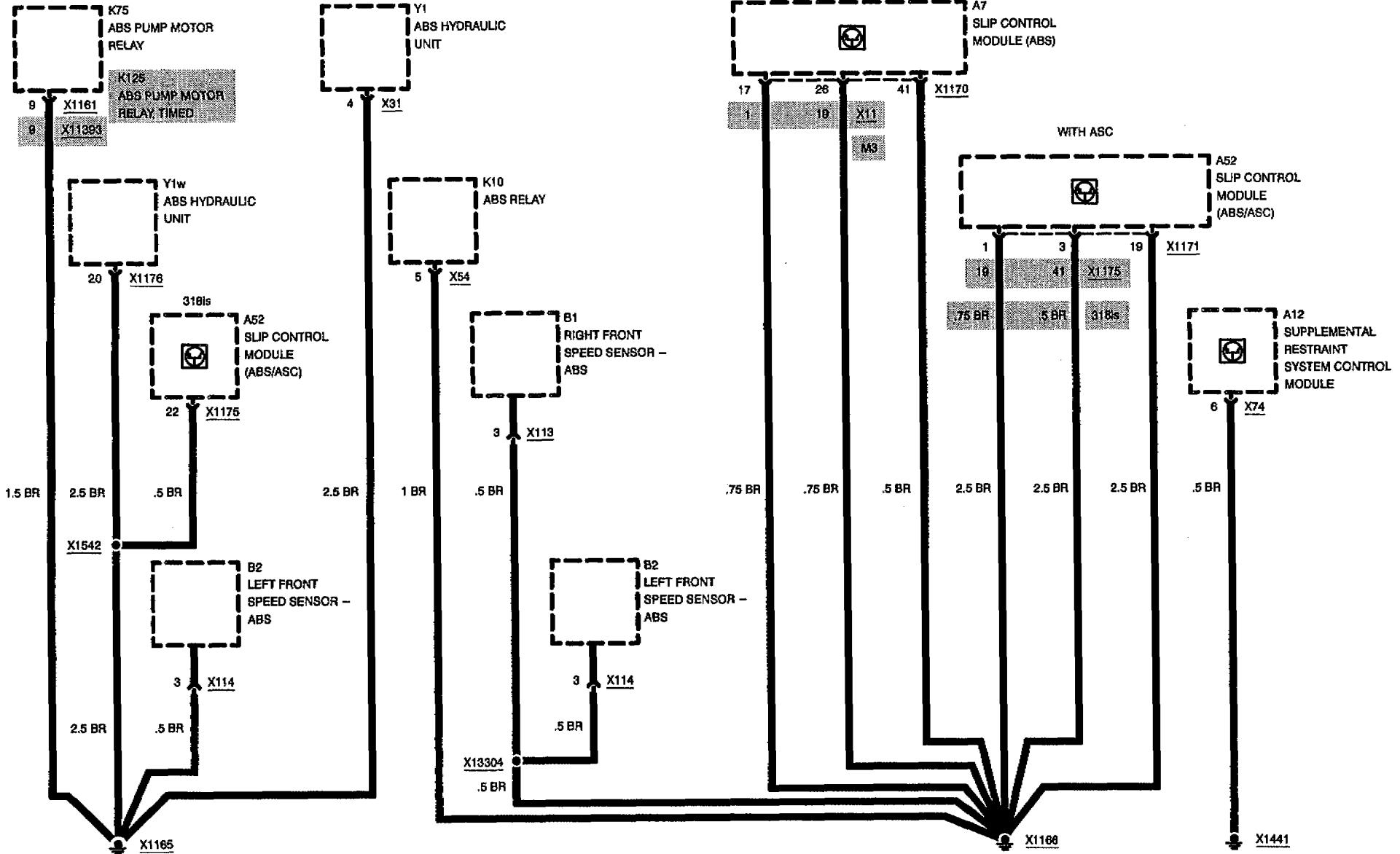
### GROUND X495



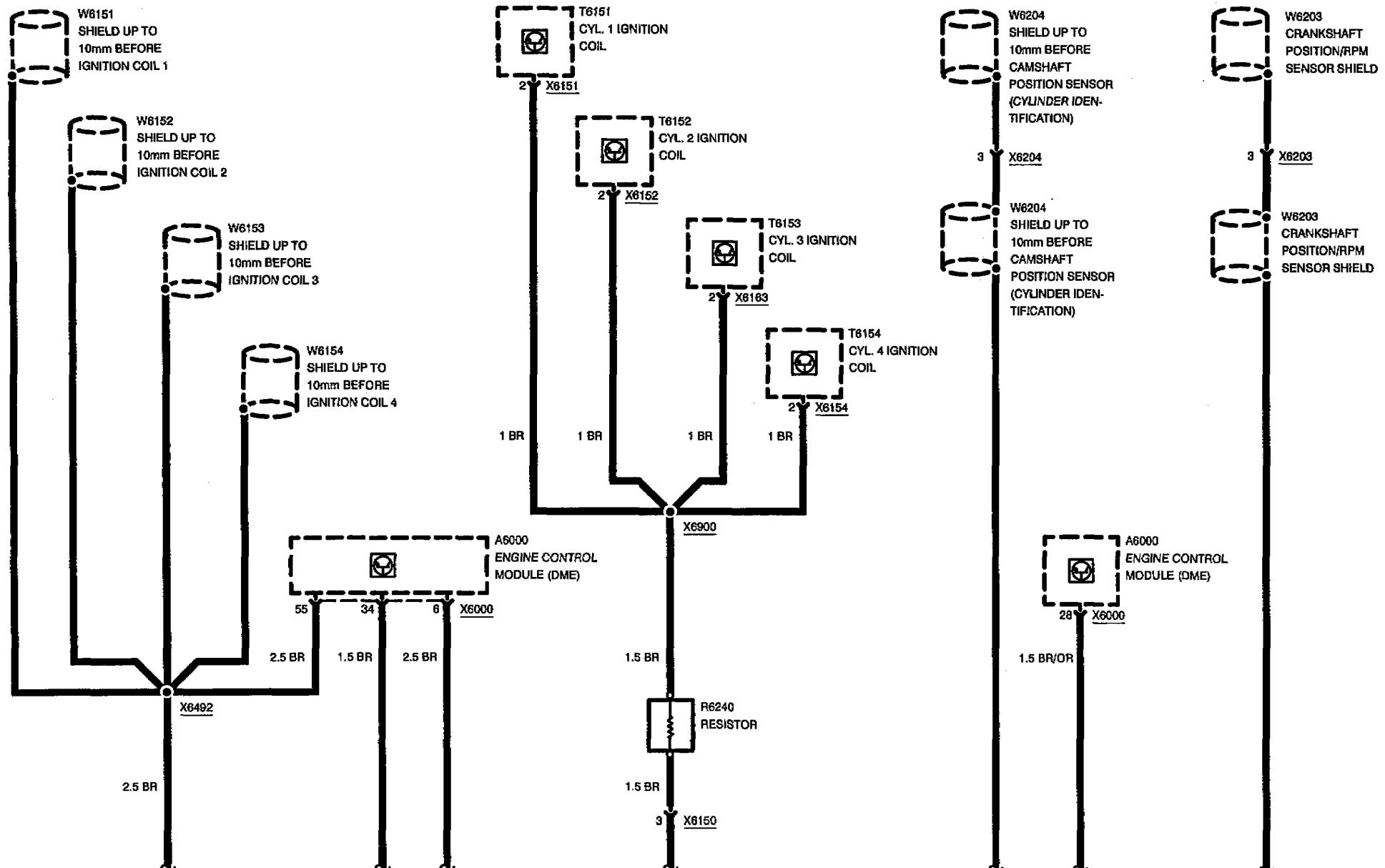


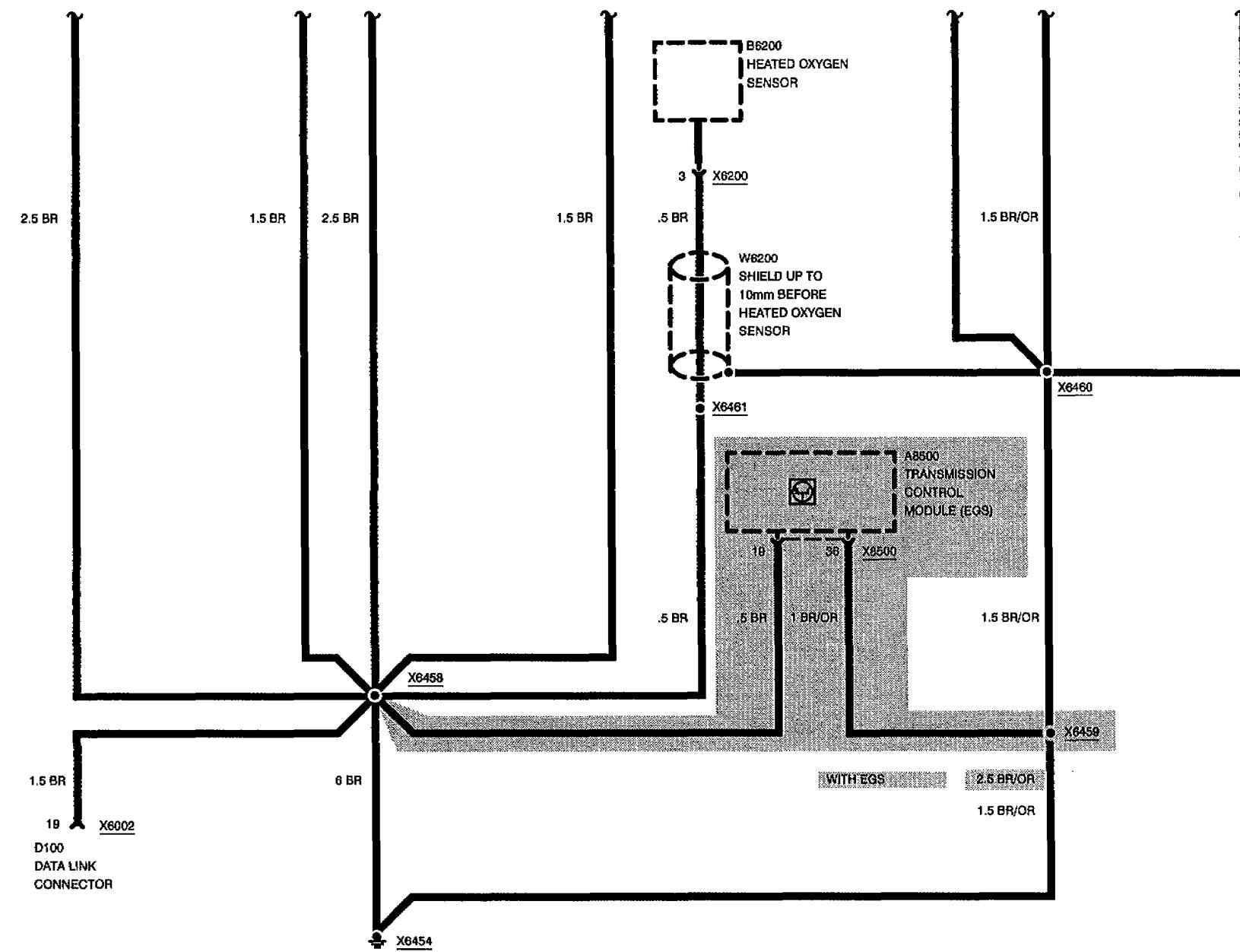
## **BMW GROUND DISTRIBUTION**

**3 GROUNDS X1165, X1166, AND X1441**



## GROUND X6454



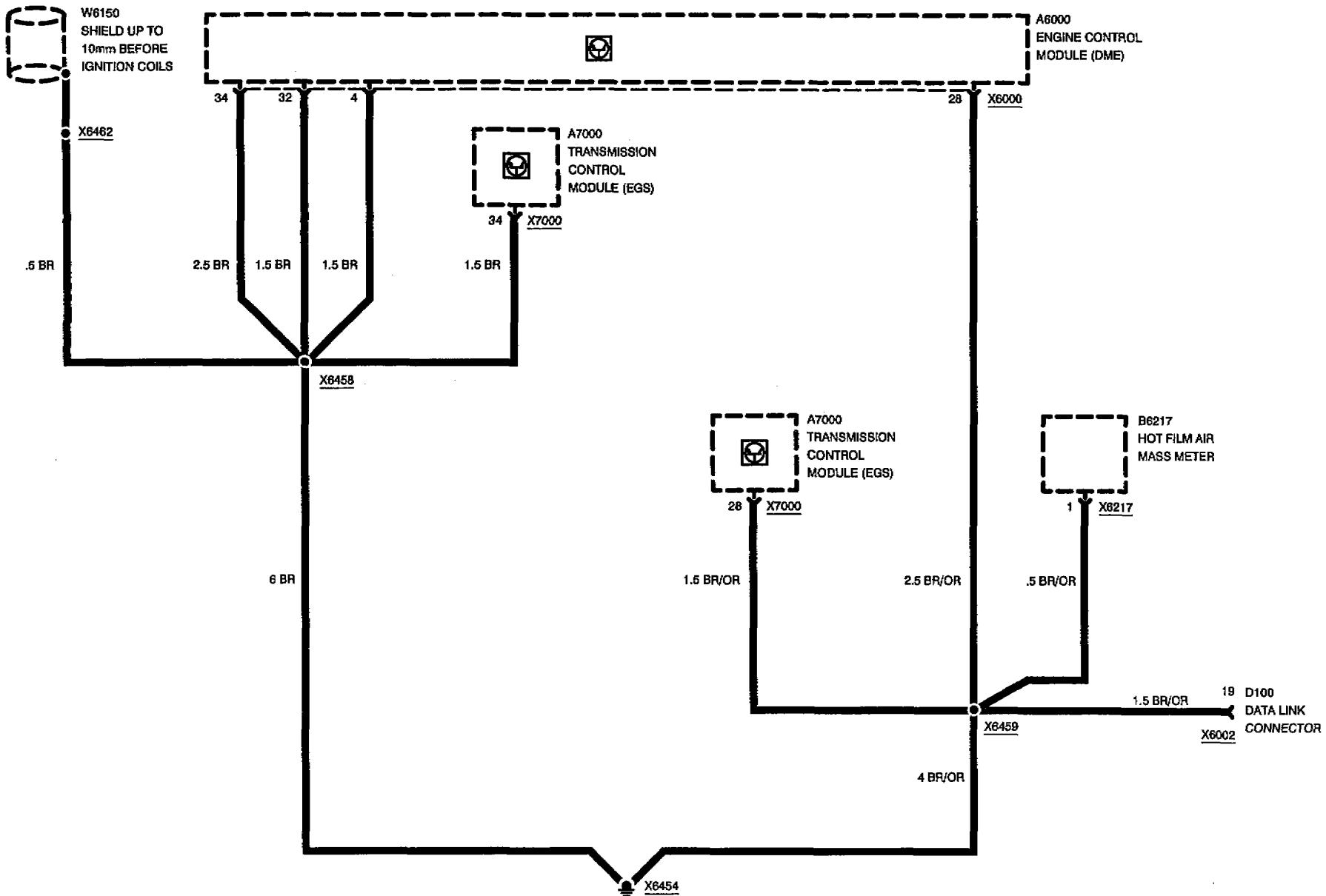


04/97

0670.4-11

1996

## GROUND X6454





# GROUND DISTRIBUTION

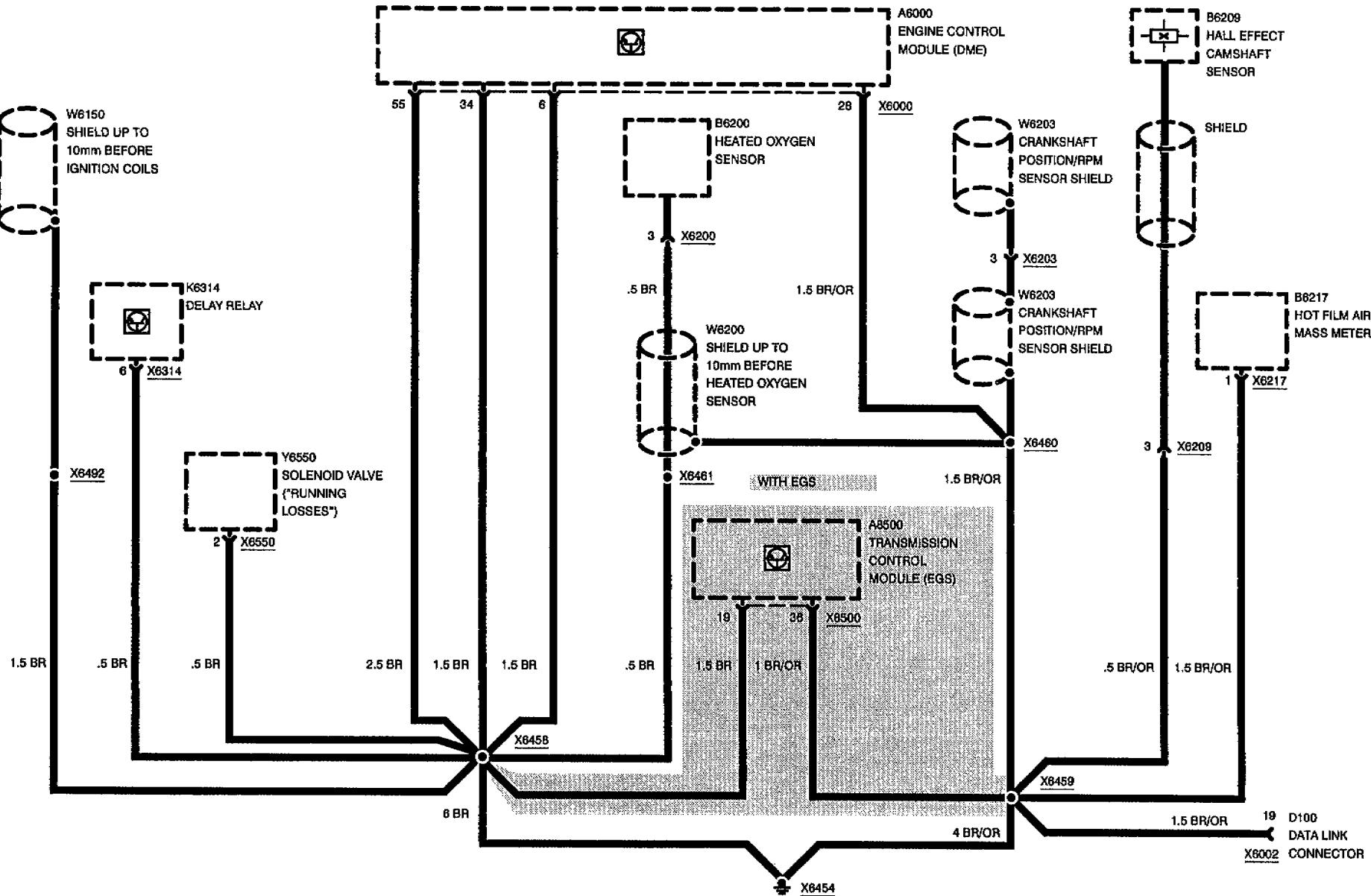
## GROUND X6454

325i, M3

(USA)

04/97

0670.4-13



1996



# GROUND DISTRIBUTION

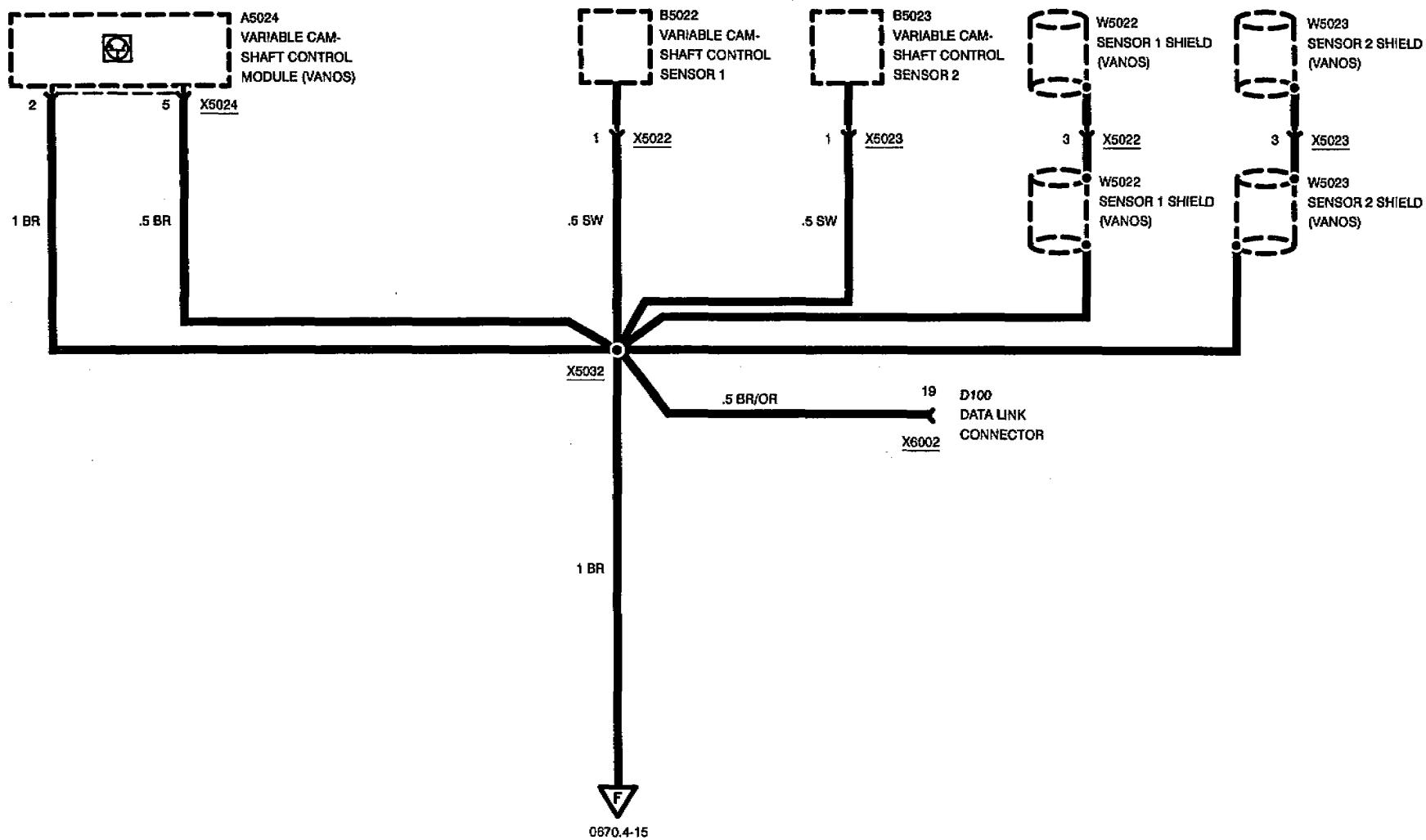
## GROUND X6454

M3

04/97

0670.4-14

1996





# GROUND DISTRIBUTION

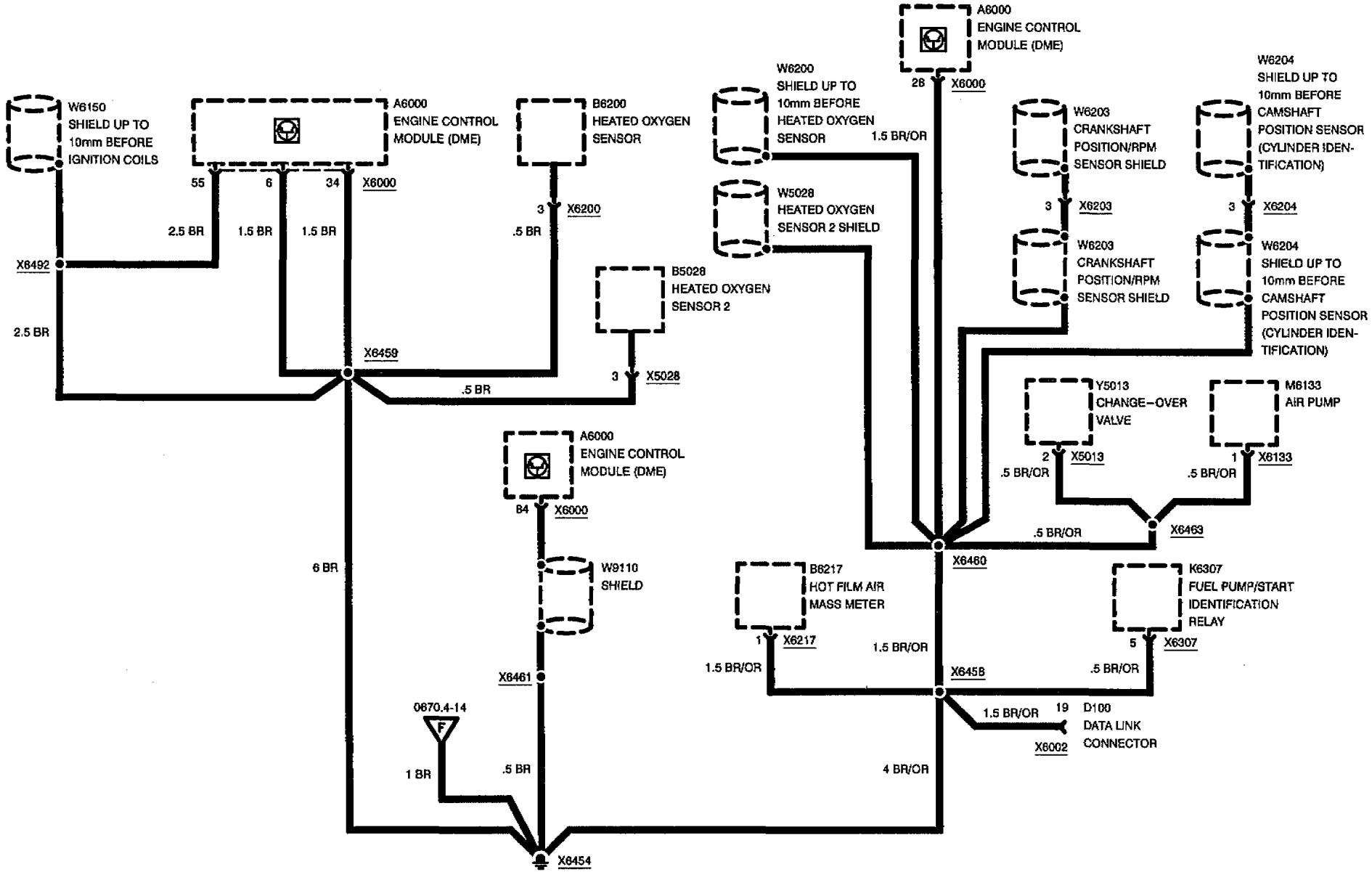
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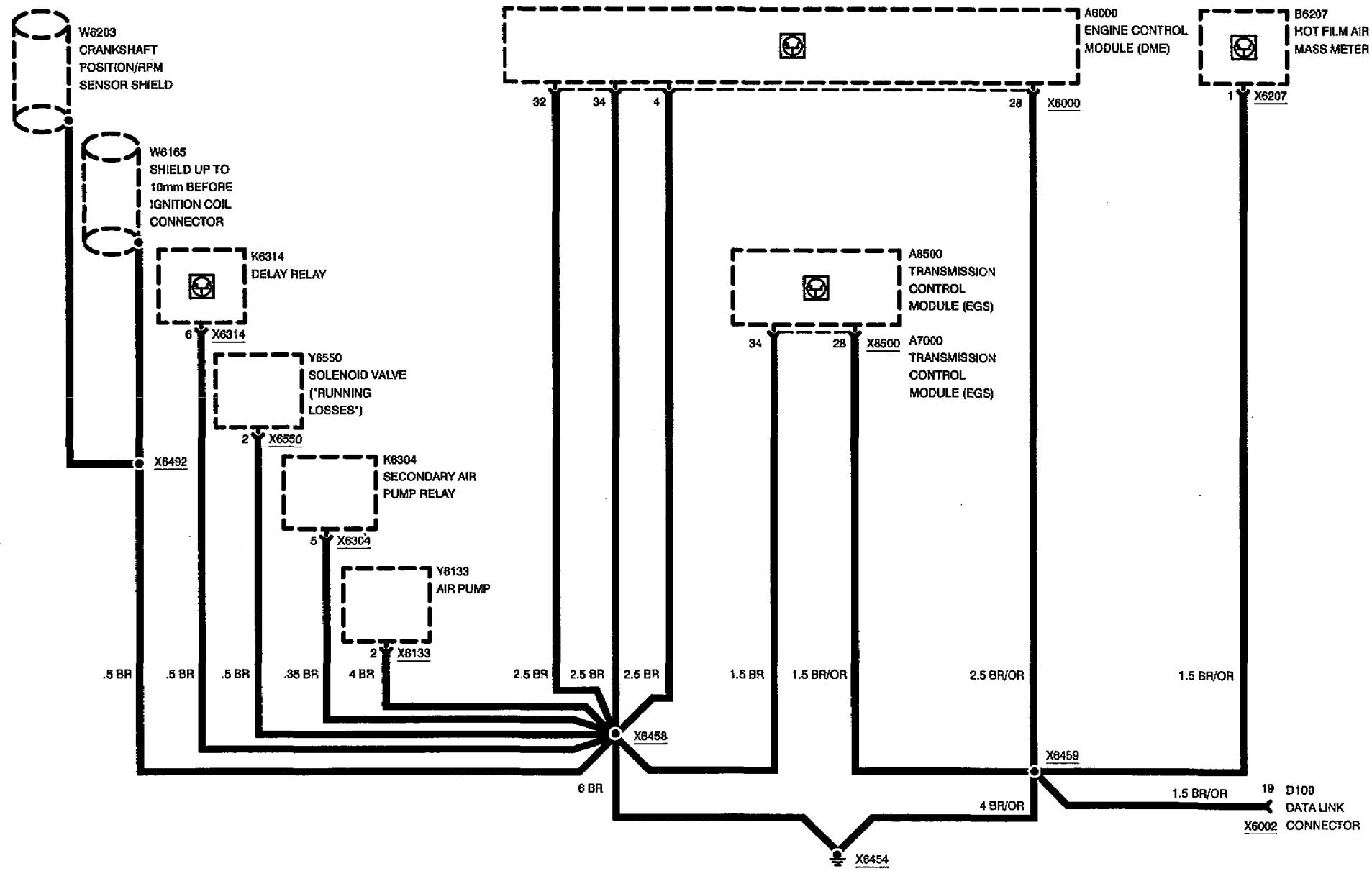
M3

04/97

0670.4-15

1996



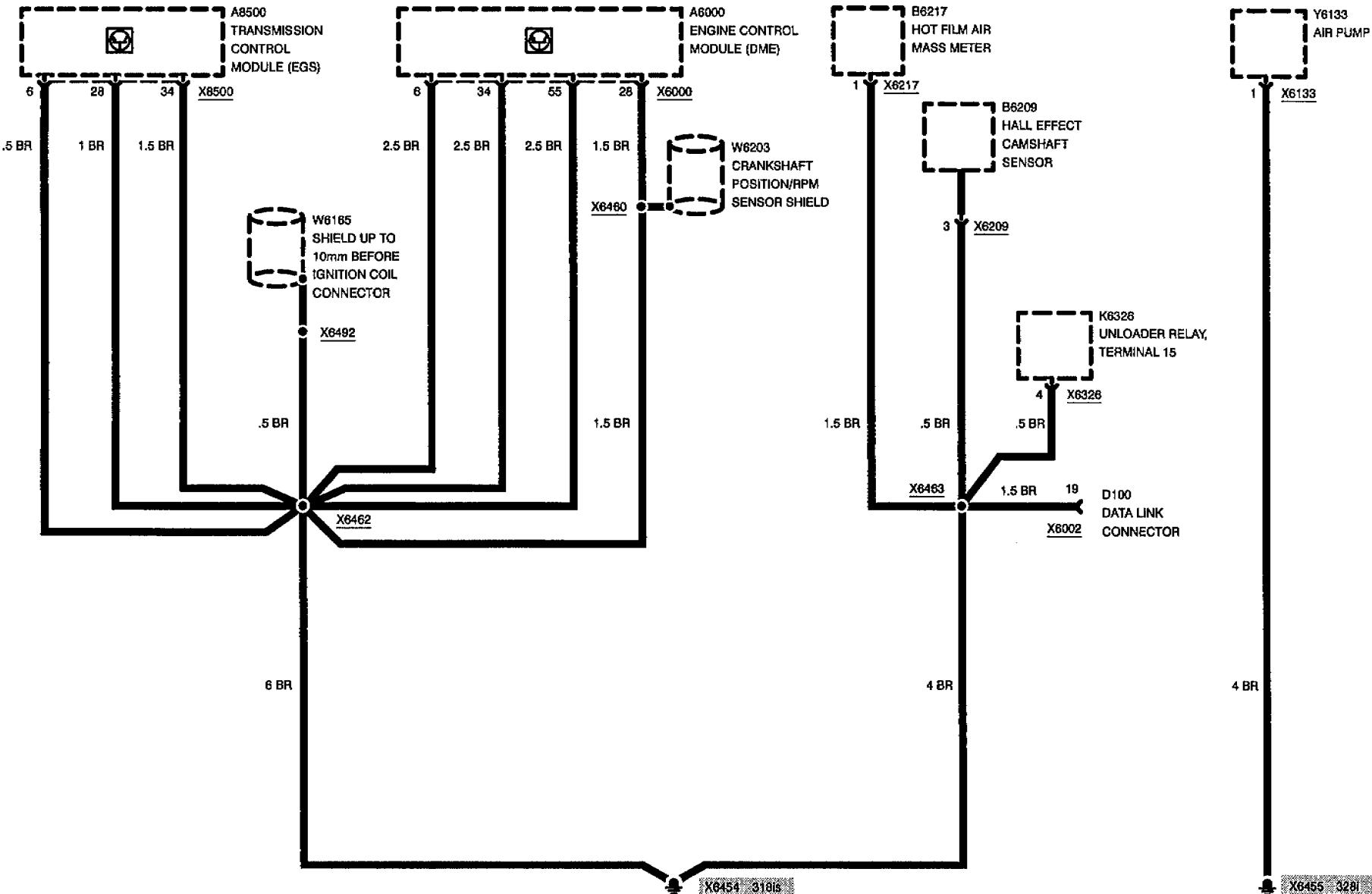




## GROUND DISTRIBUTION 3 GROUNDS X6454 AND X6455

318is, 328i LATE PRODUCTION

04/97



0670.4-17

1996



# GROUND DISTRIBUTION

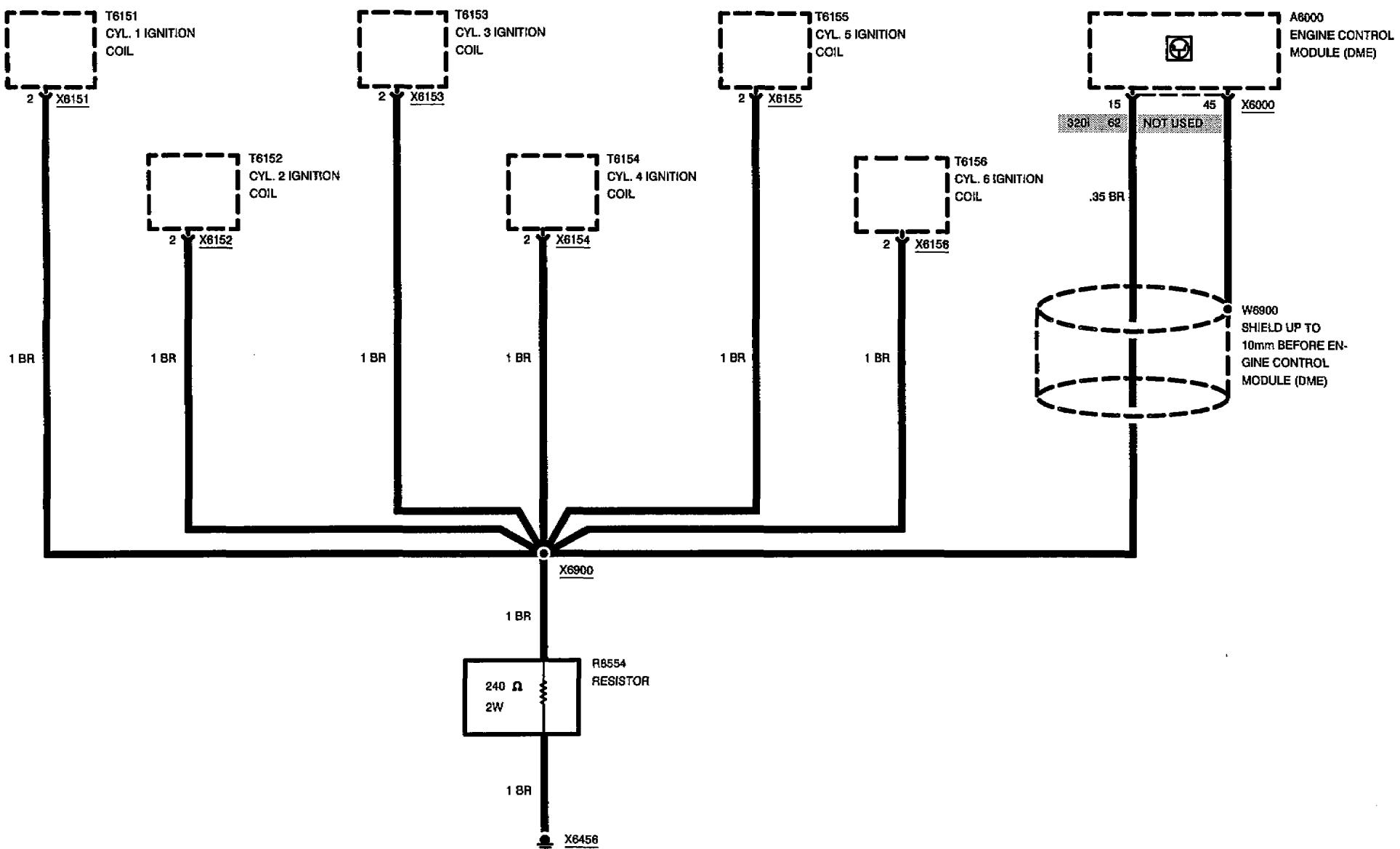
## GROUND X6456

320i, 325i

04/97

0670.4-18

1996

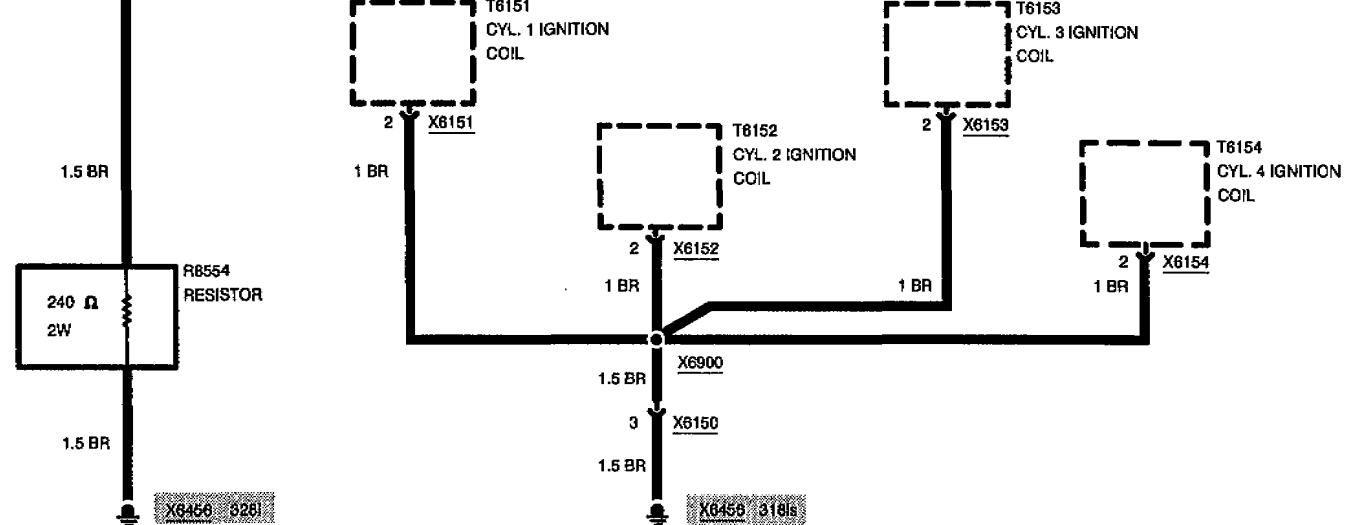
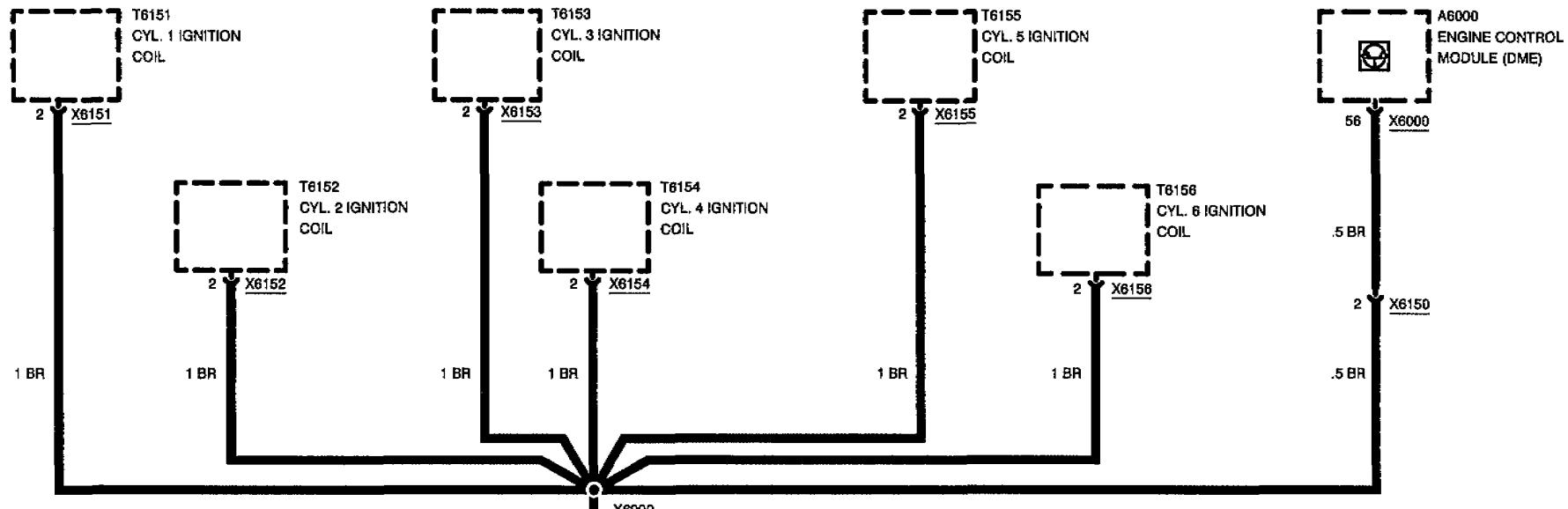




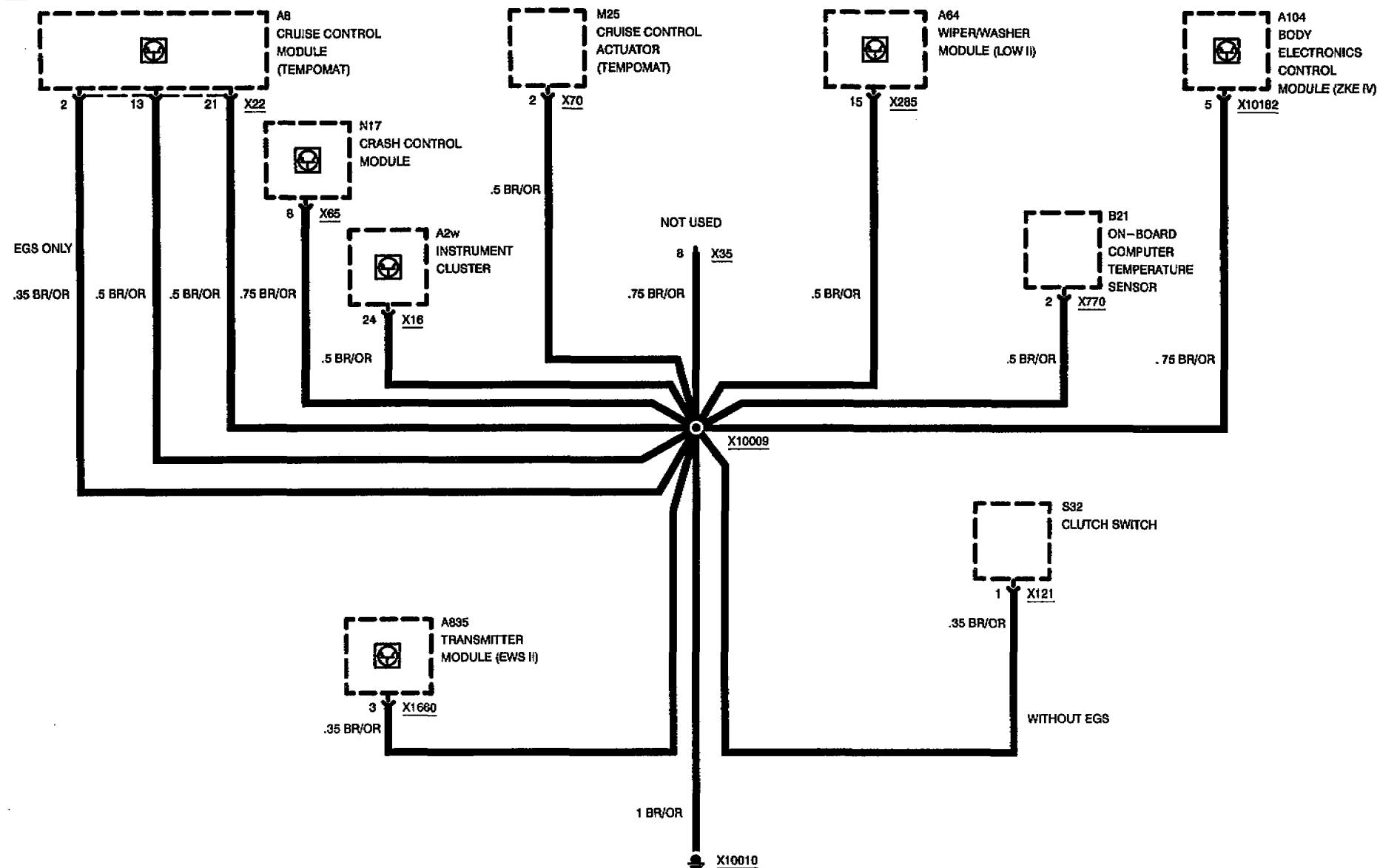
## GROUND DISTRIBUTION

### GROUND X6456

318is, 328i



## GROUND X10010





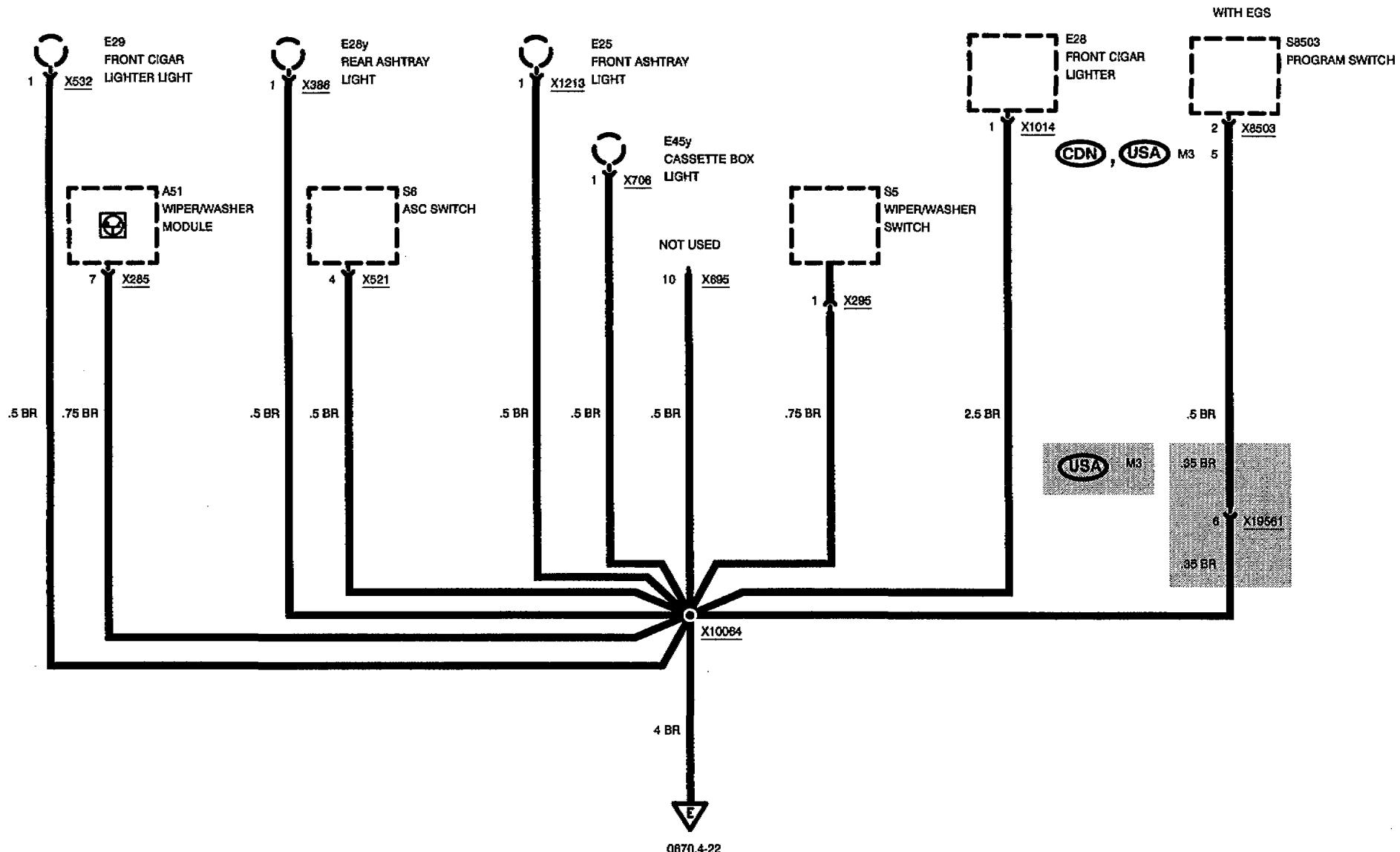
# GROUND DISTRIBUTION

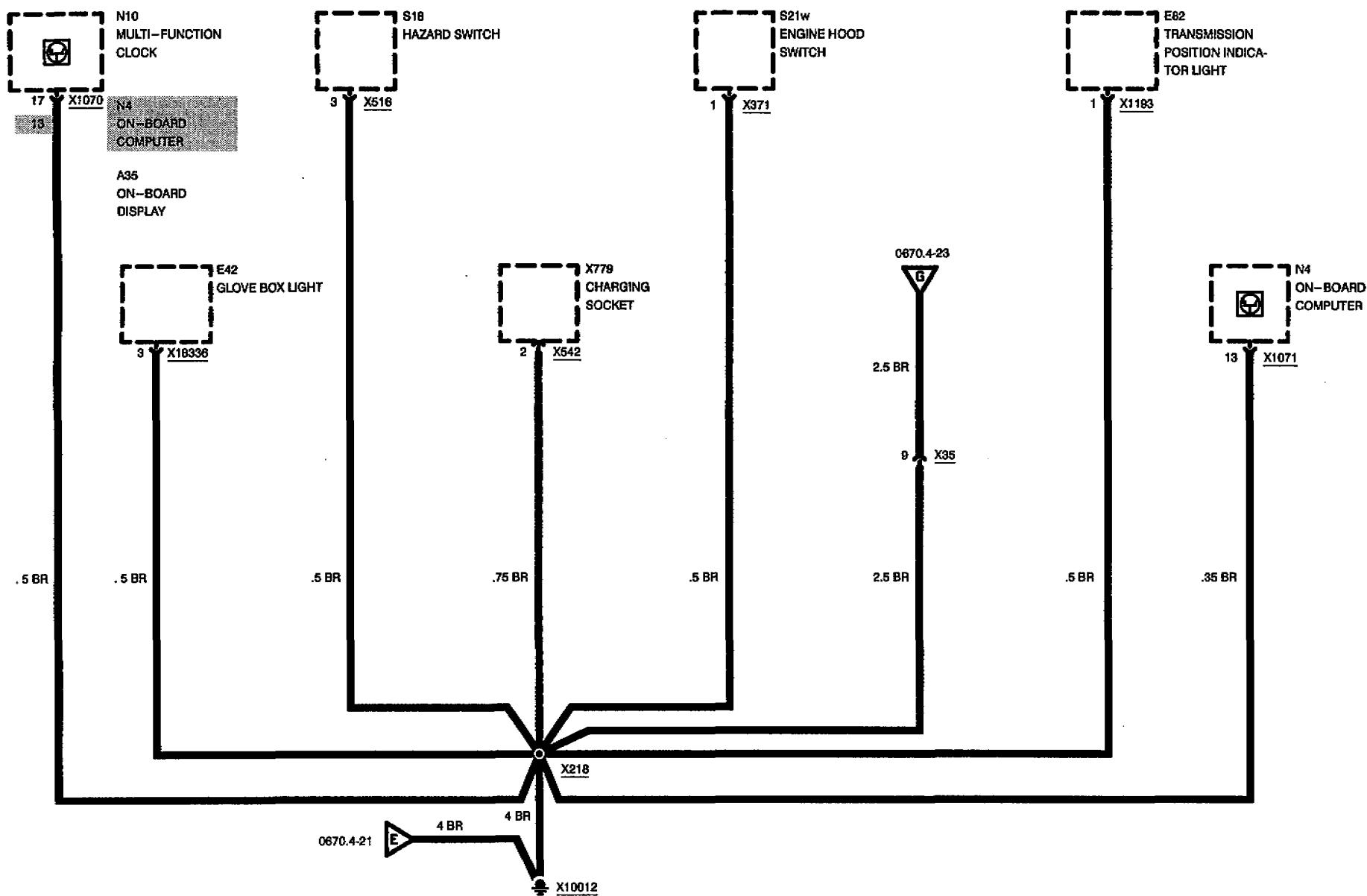
## GROUND X10012

04/97

0670.4-21

1996







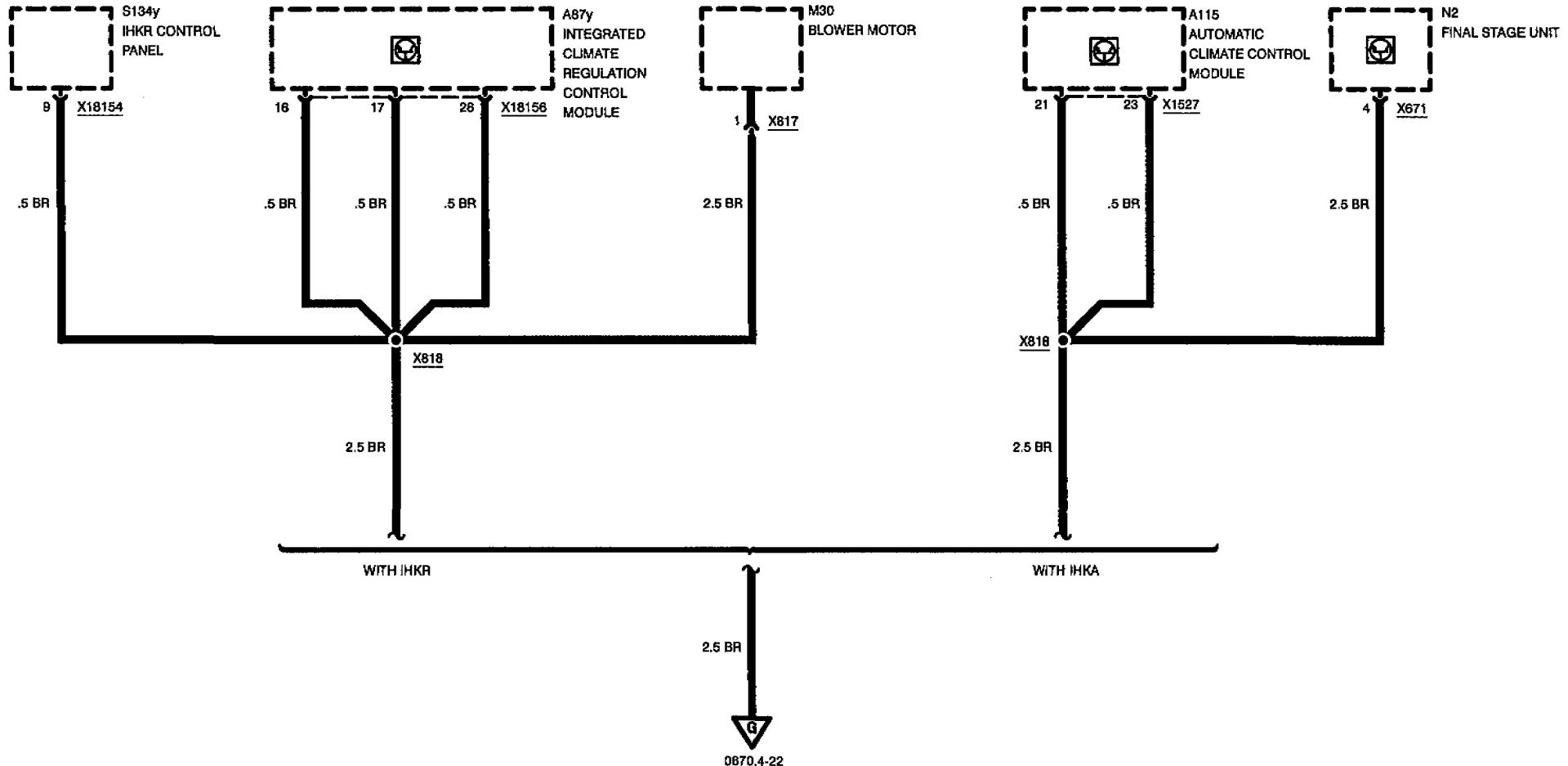
## GROUND DISTRIBUTION

### GROUND X10012

04/97

0670.4-23

1996

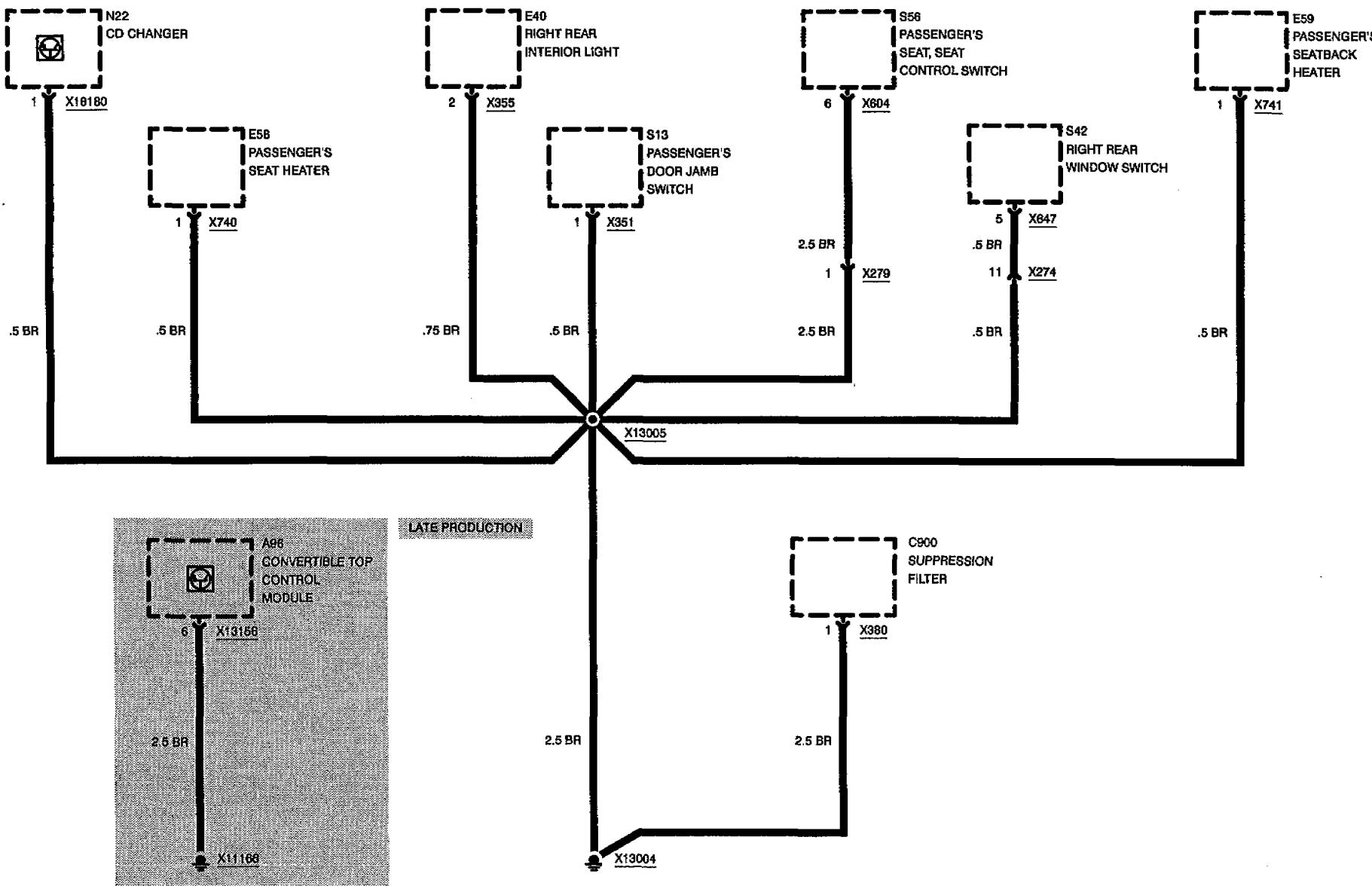




# GROUND DISTRIBUTION

FOUR-DOOR

GROUNDS X11166 AND X13004





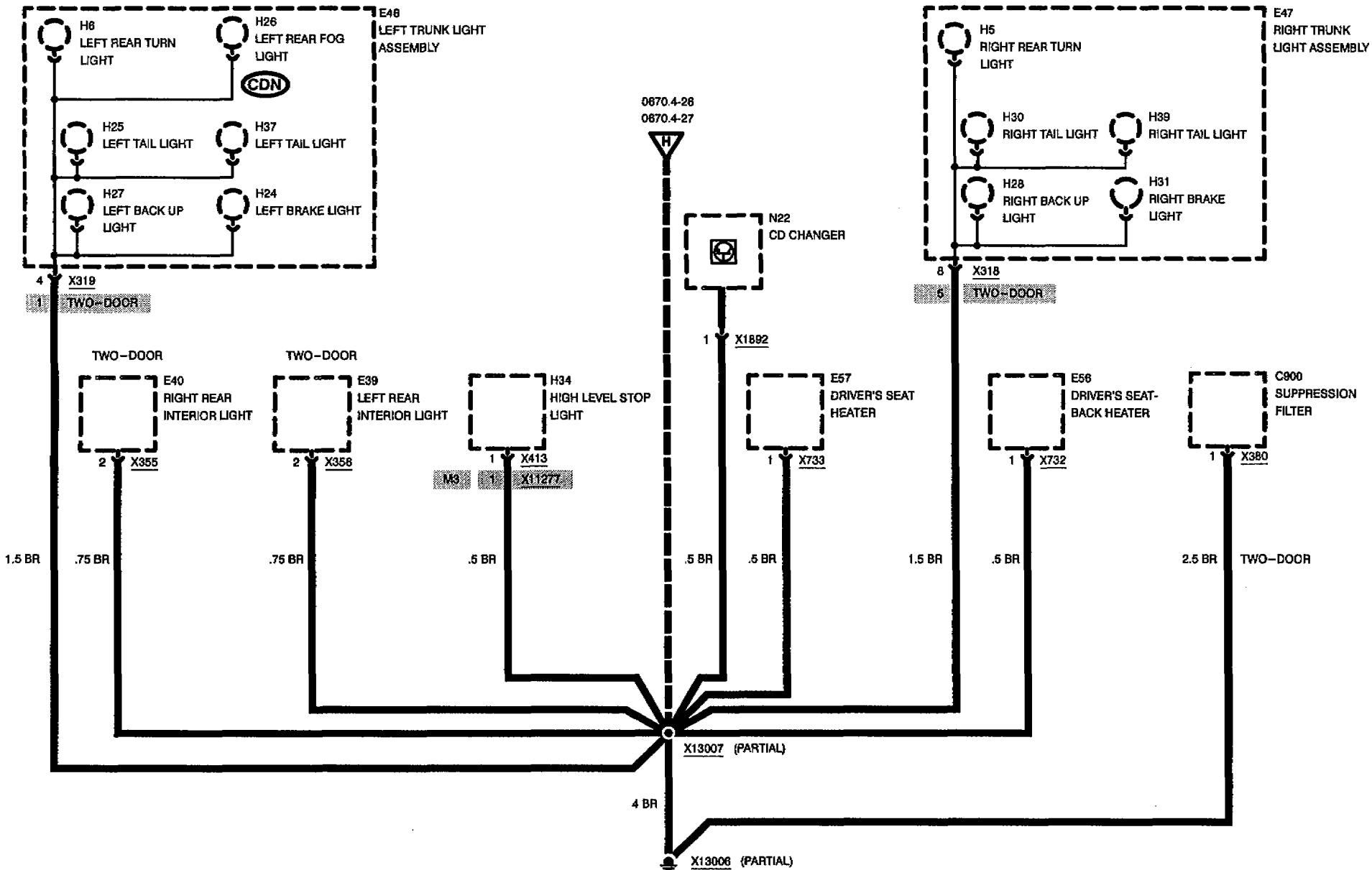
# GROUND DISTRIBUTION

## GROUND X13006

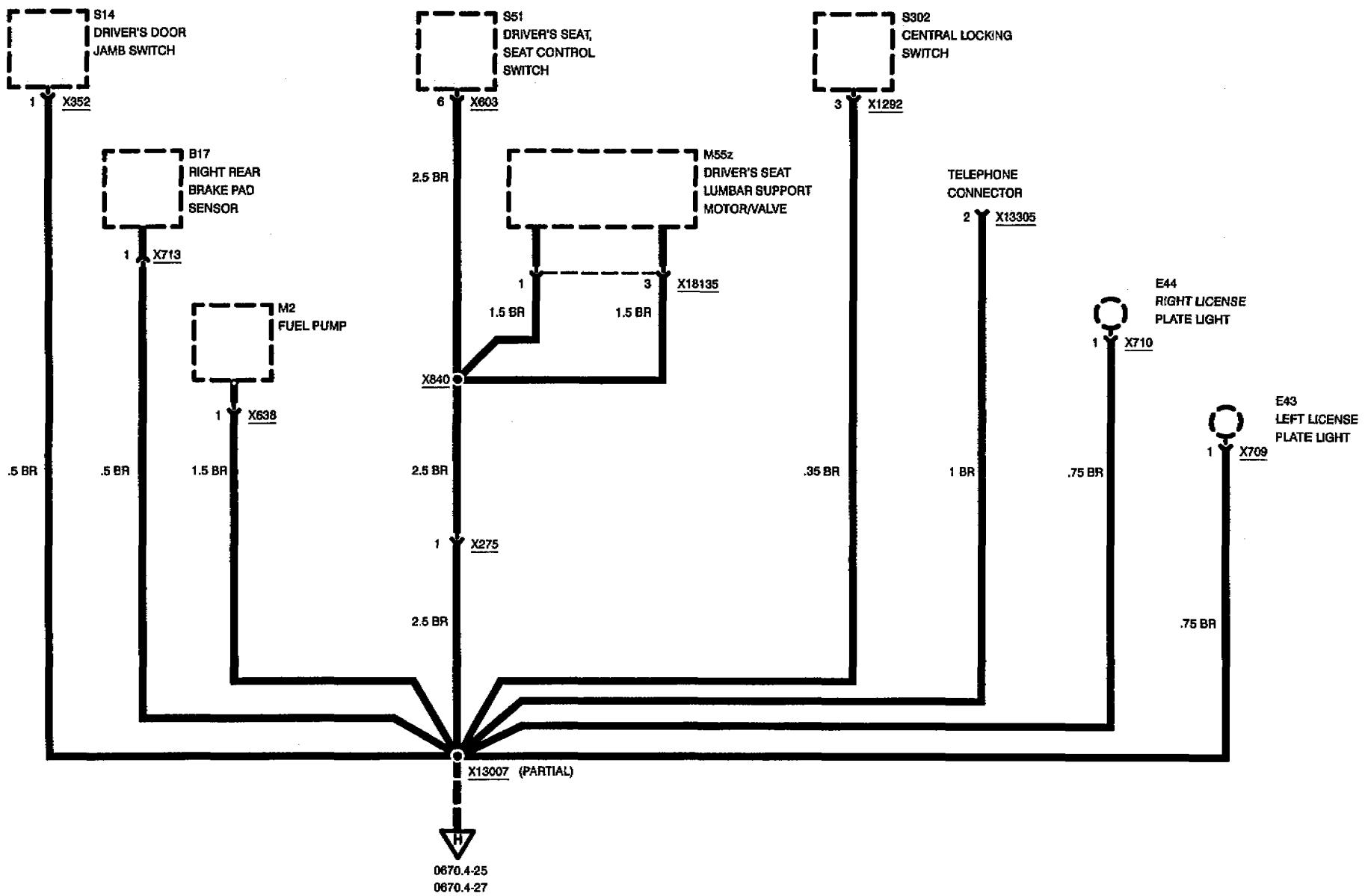
04/97

0670.4-25

1996



## GROUND X13006

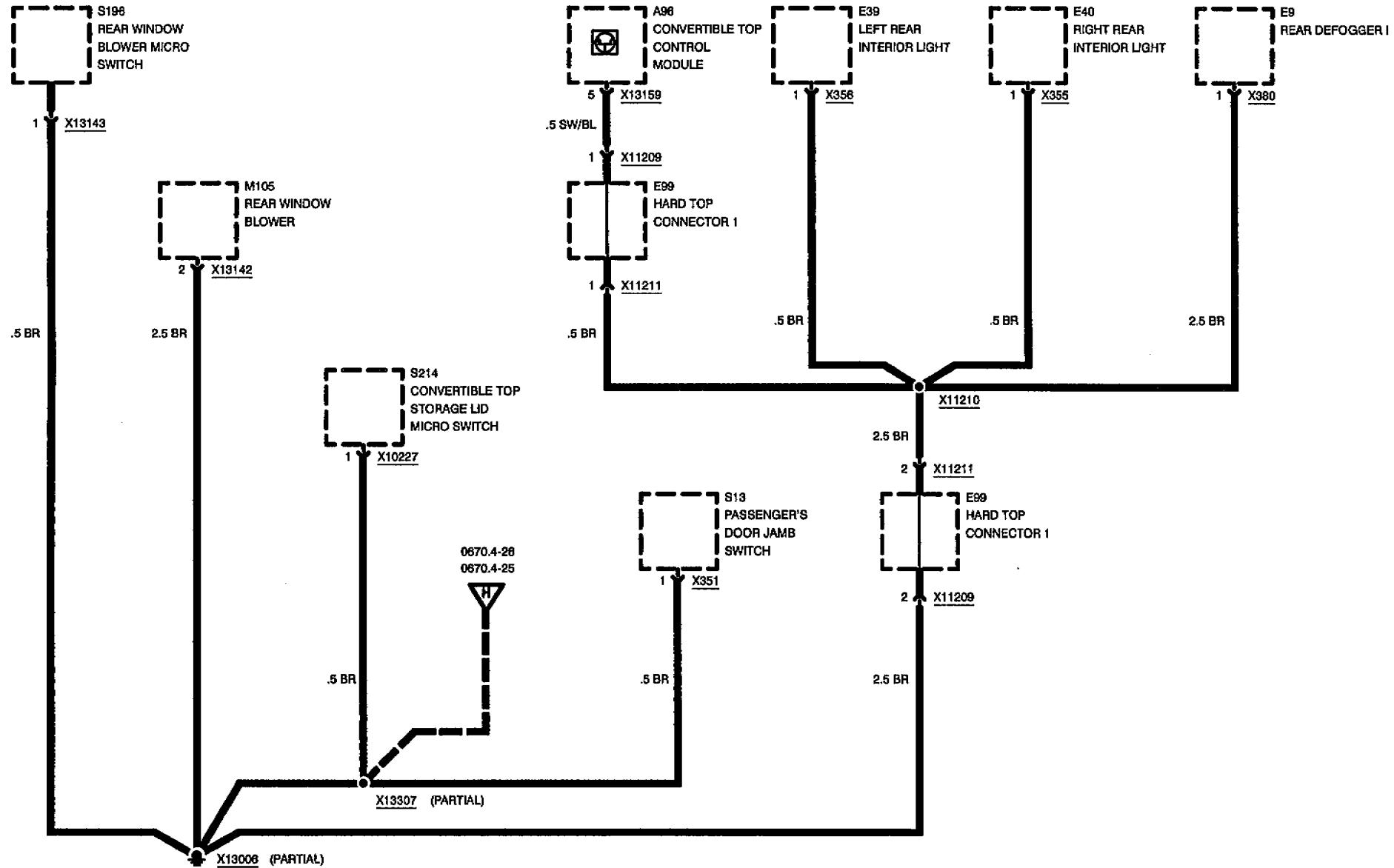




# GROUND DISTRIBUTION

## GROUND X13006

CONVERTIBLE





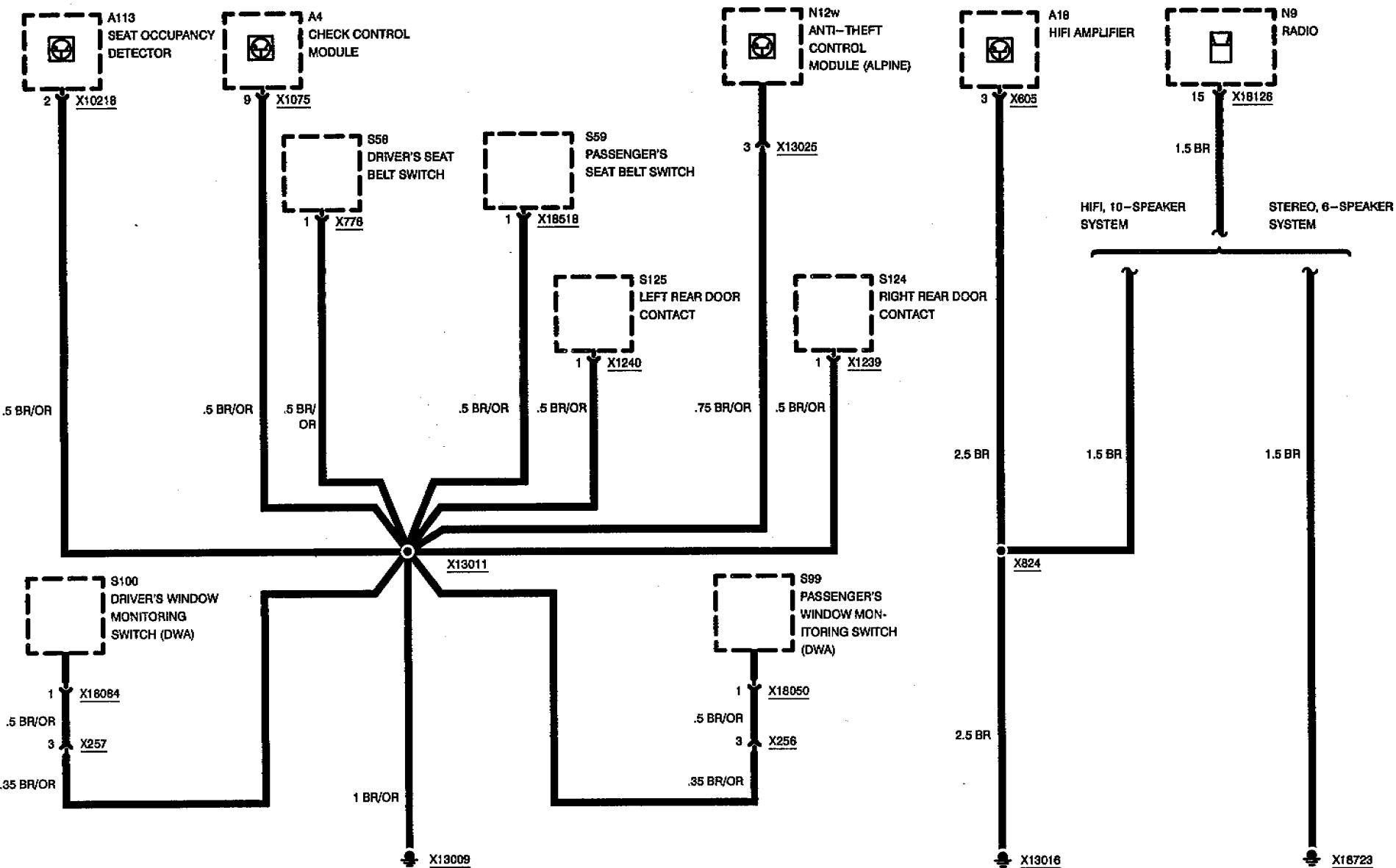
# GROUND DISTRIBUTION

## GROUNDS X13009, X13016, AND X18723

04/97

0670.4-28

1996





## GROUND DISTRIBUTION

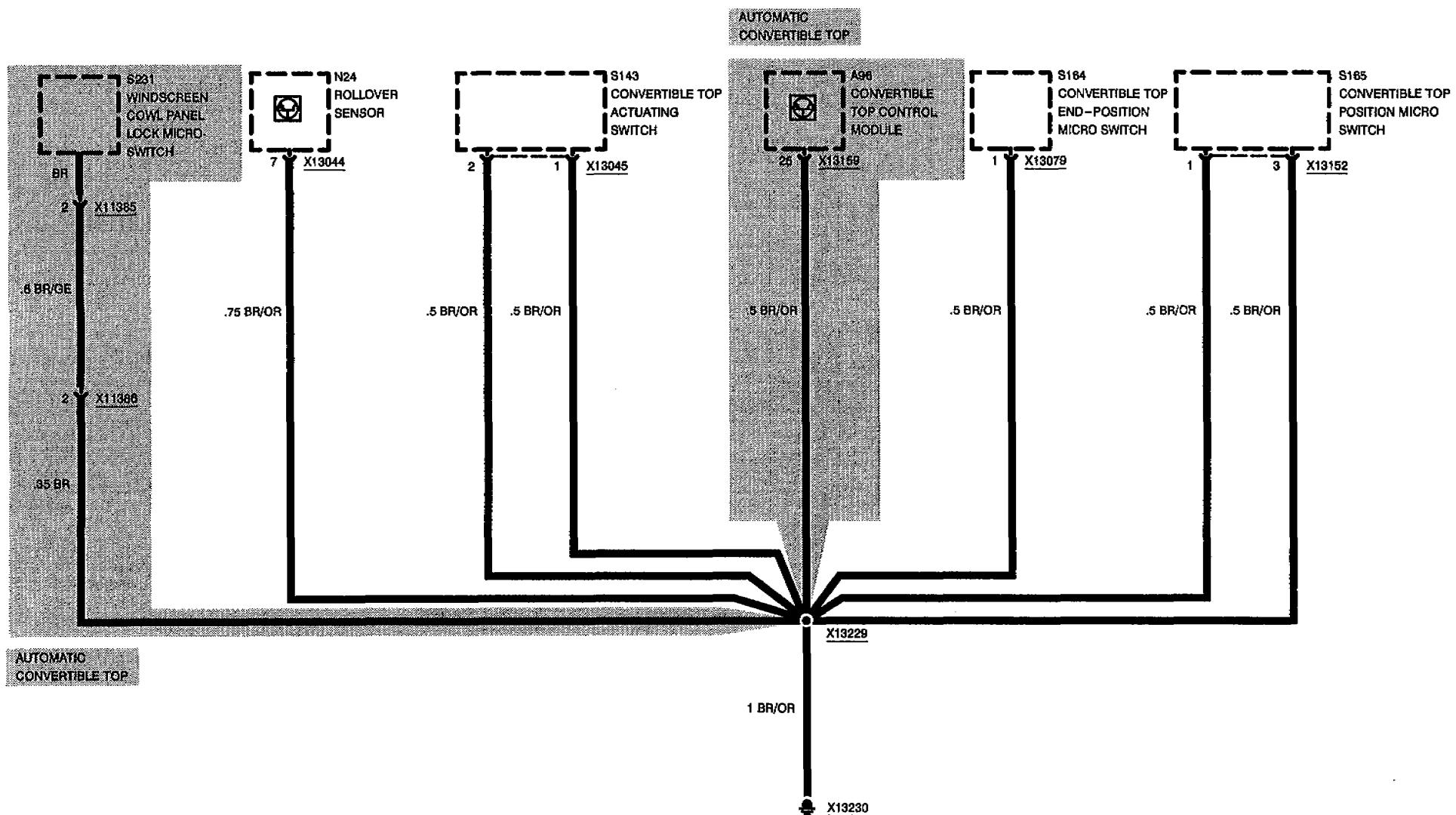
### GROUND X13230

CONVERTIBLE

04/97

0670.4-29

1996





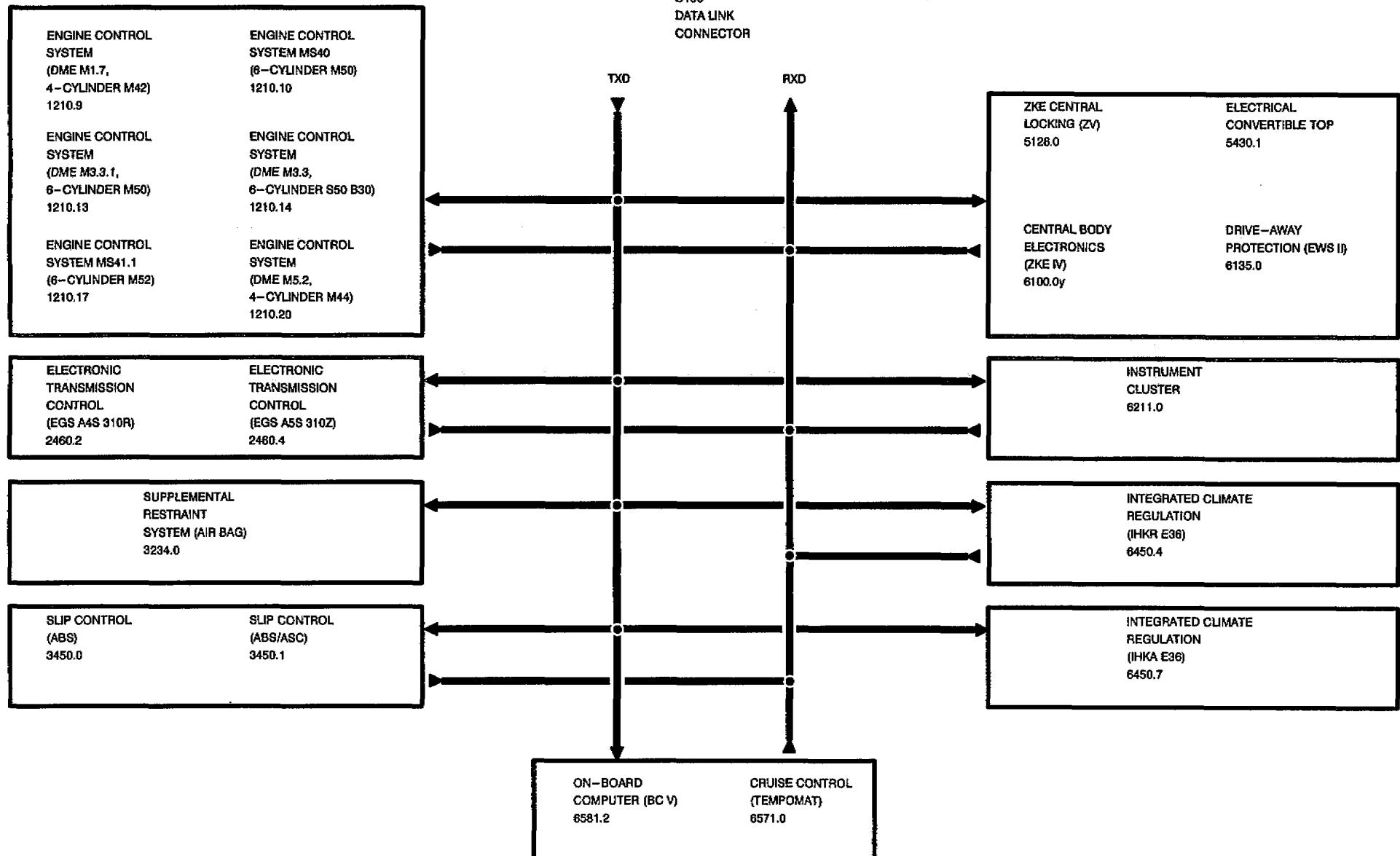
# DATA LINK

## BLOCK DIAGRAM

04/97

0670.5-00

1996





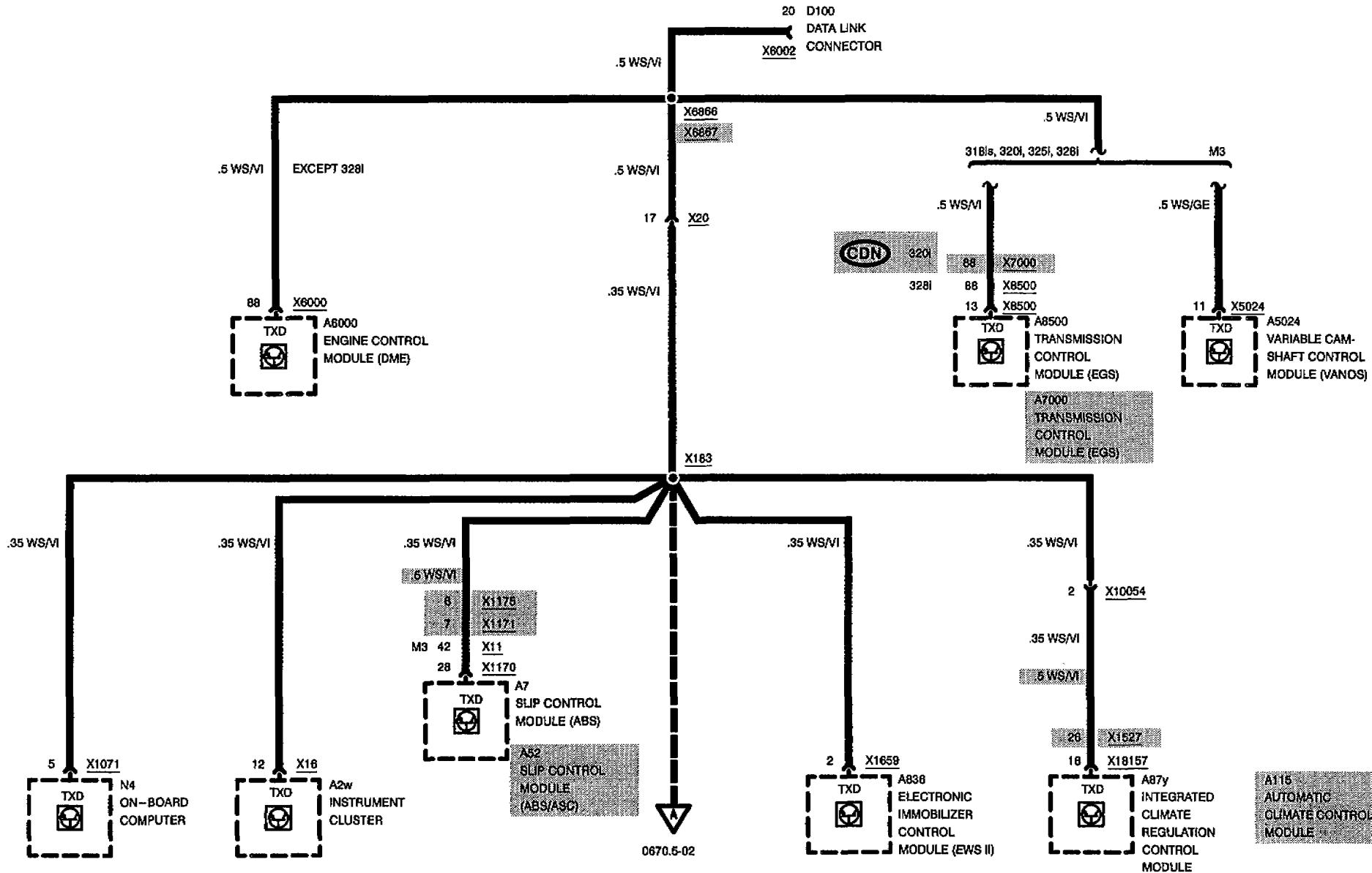
# DATA LINK

## TXD, PIN 20

04/97

0670.5-01

1996



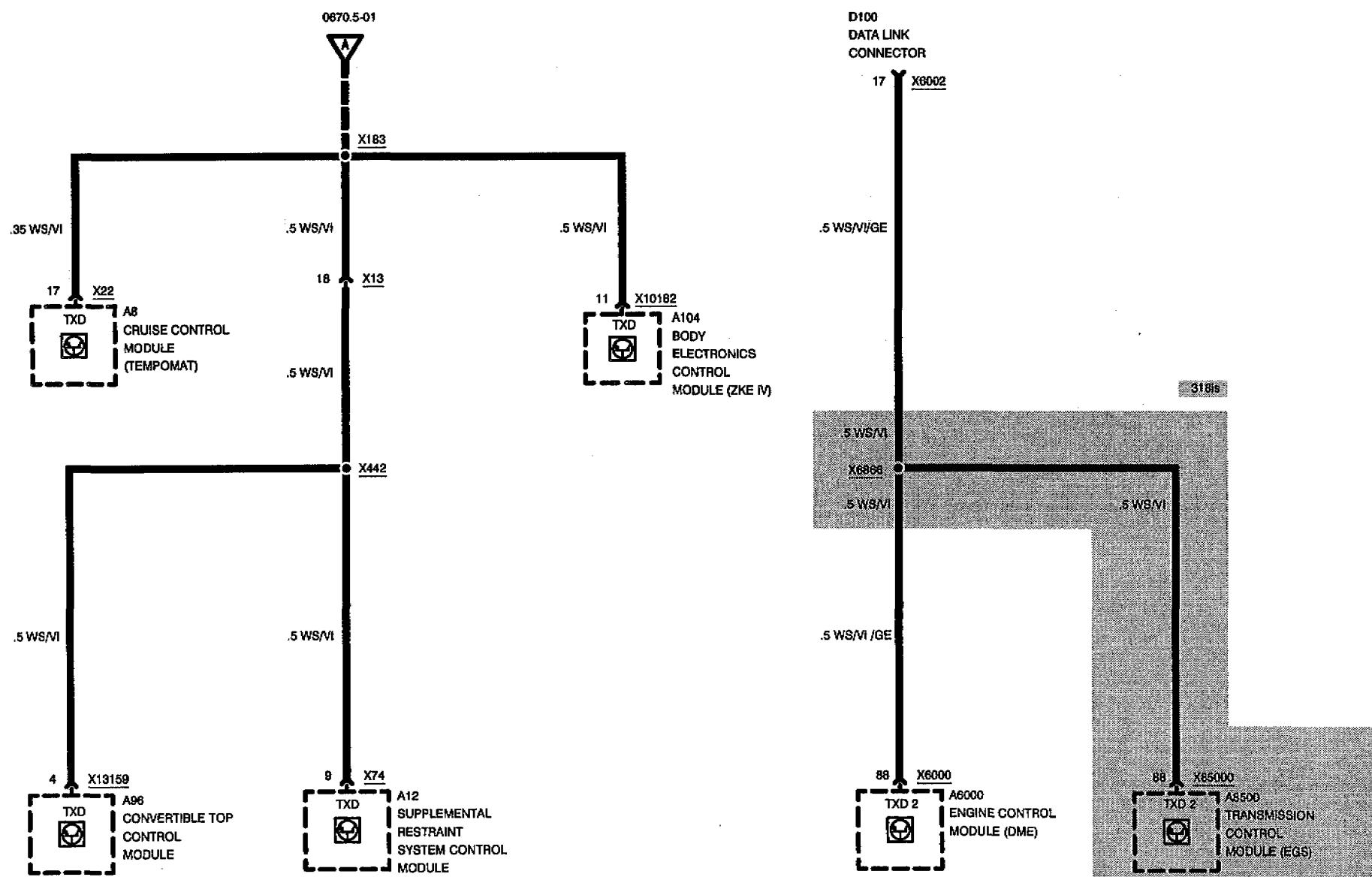


# DATA LINK

TXD, PIN 20 AND TXD 2, PIN 17

04/97

0670.5-02



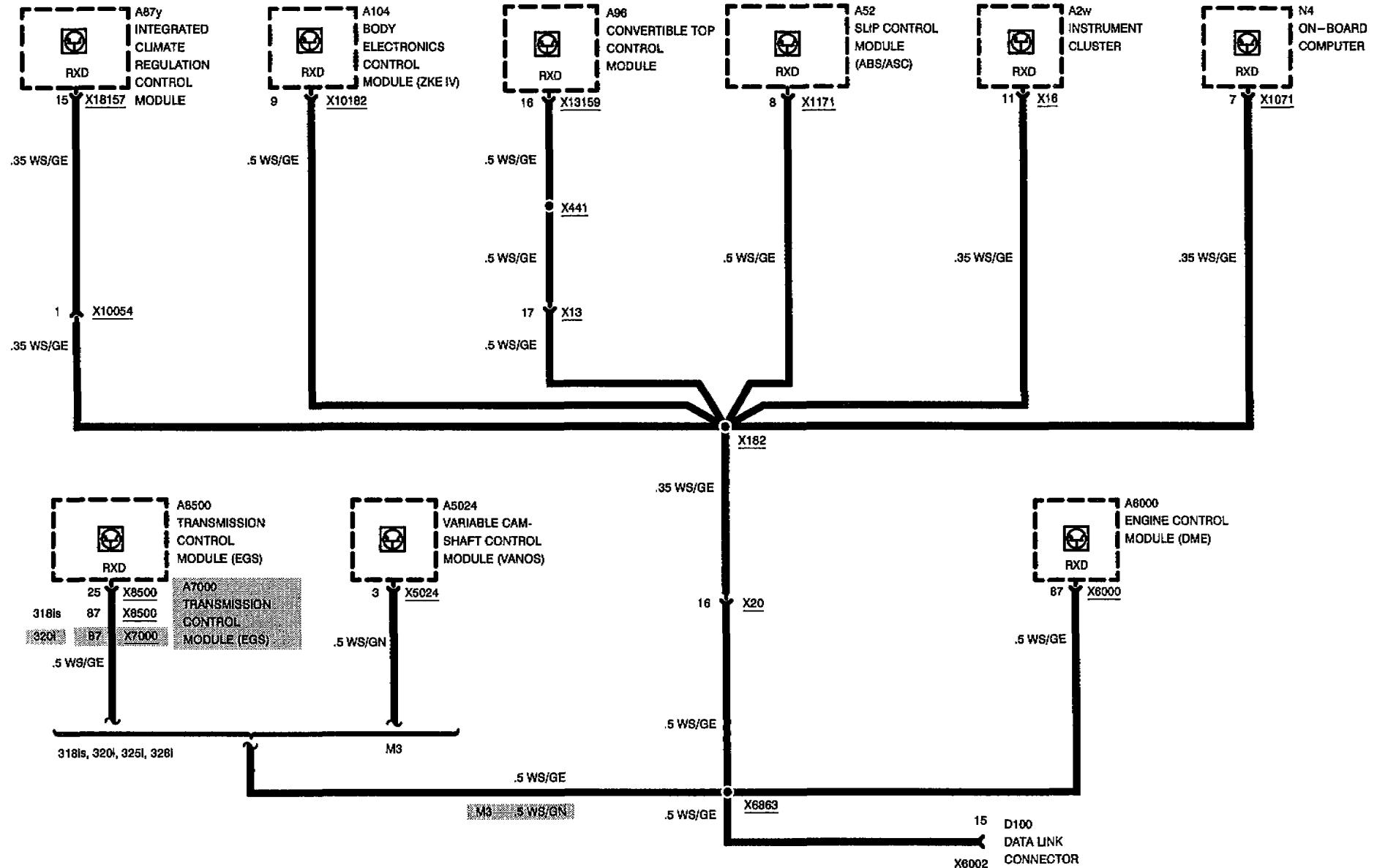
1996

**BMW DATA LINK**  
**3 RXD, PIN 15**

04/97

0670.5-03

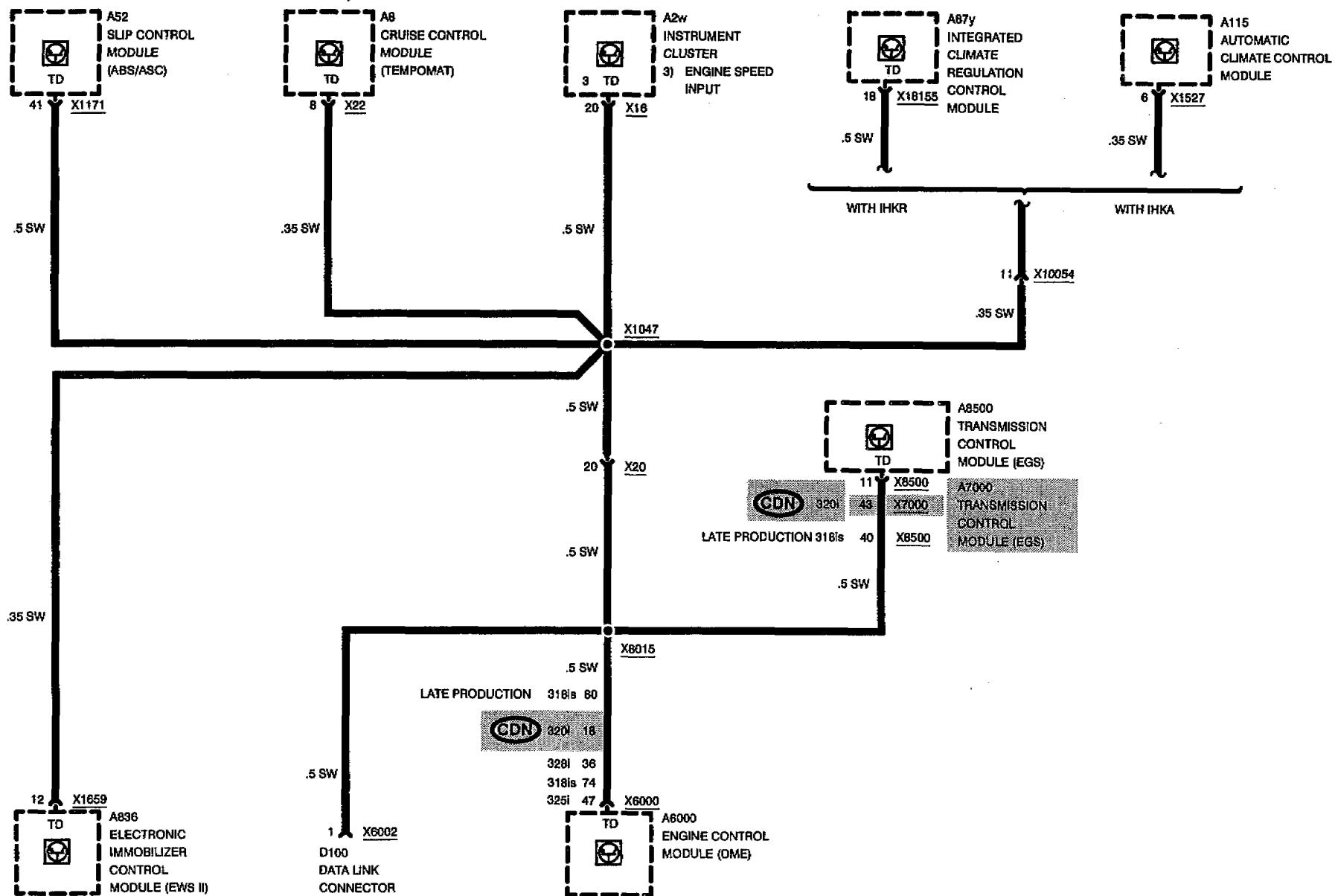
1996





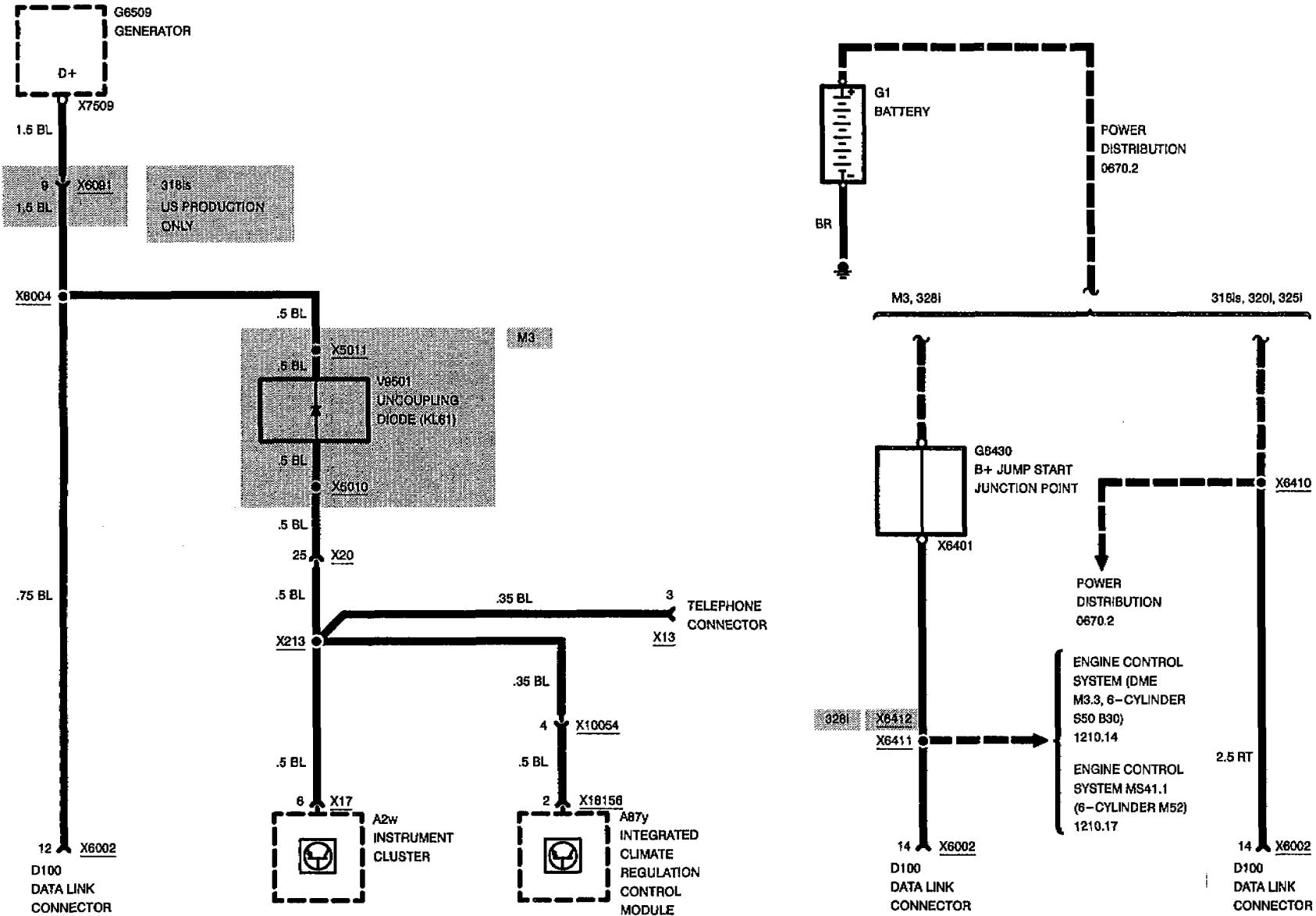
# DATA LINK

## DATA LINK CONNECTOR, PIN 1



# BMW DATA LINK

## 3 DATA LINK CONNECTOR, PINS 12 AND 14





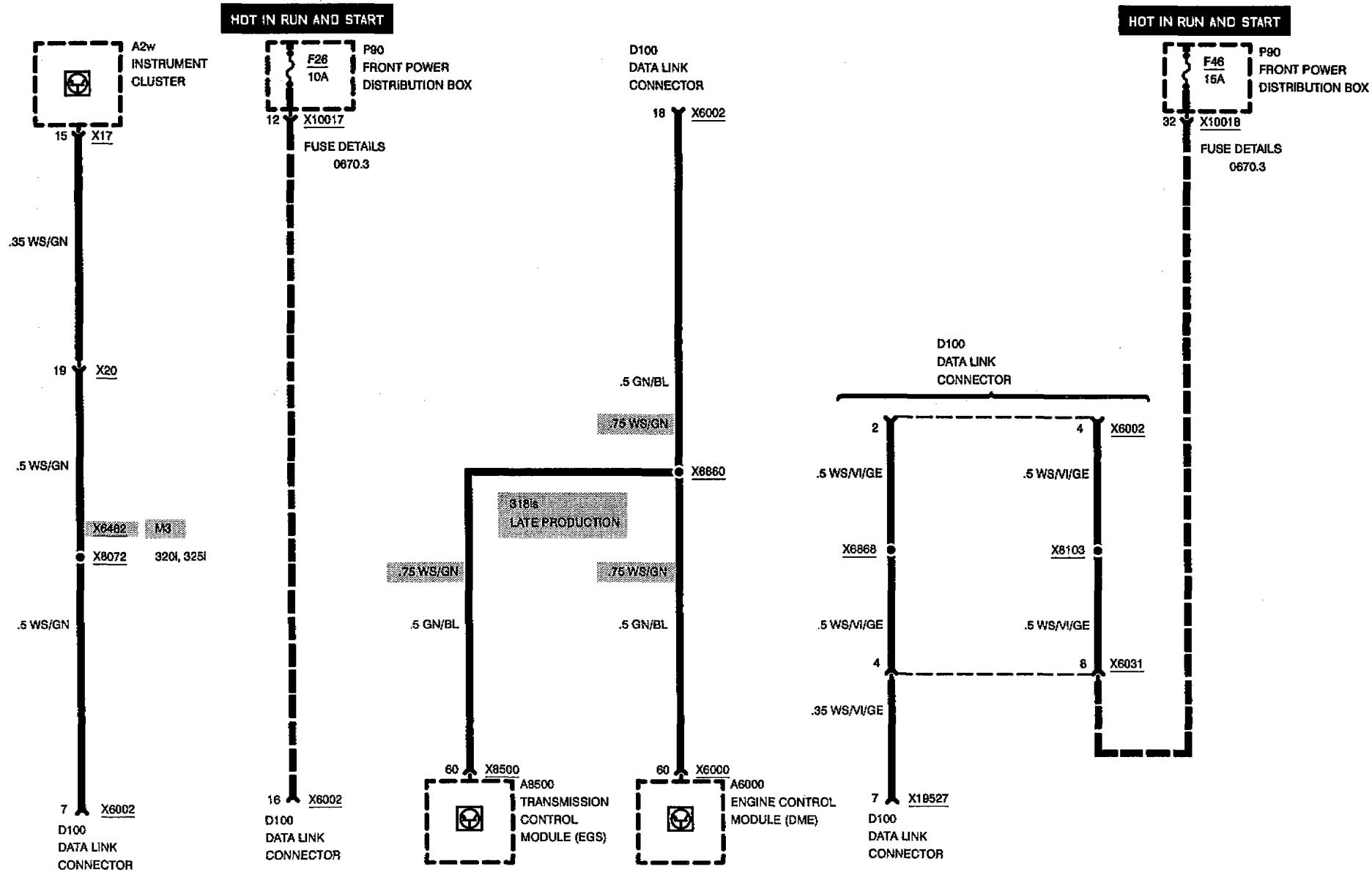
# DATA LINK

## DATA LINK CONNECTOR, PINS 2, 4, 7, 16, AND 18

04/97

0670.5-06

1996





**DATA LINK**

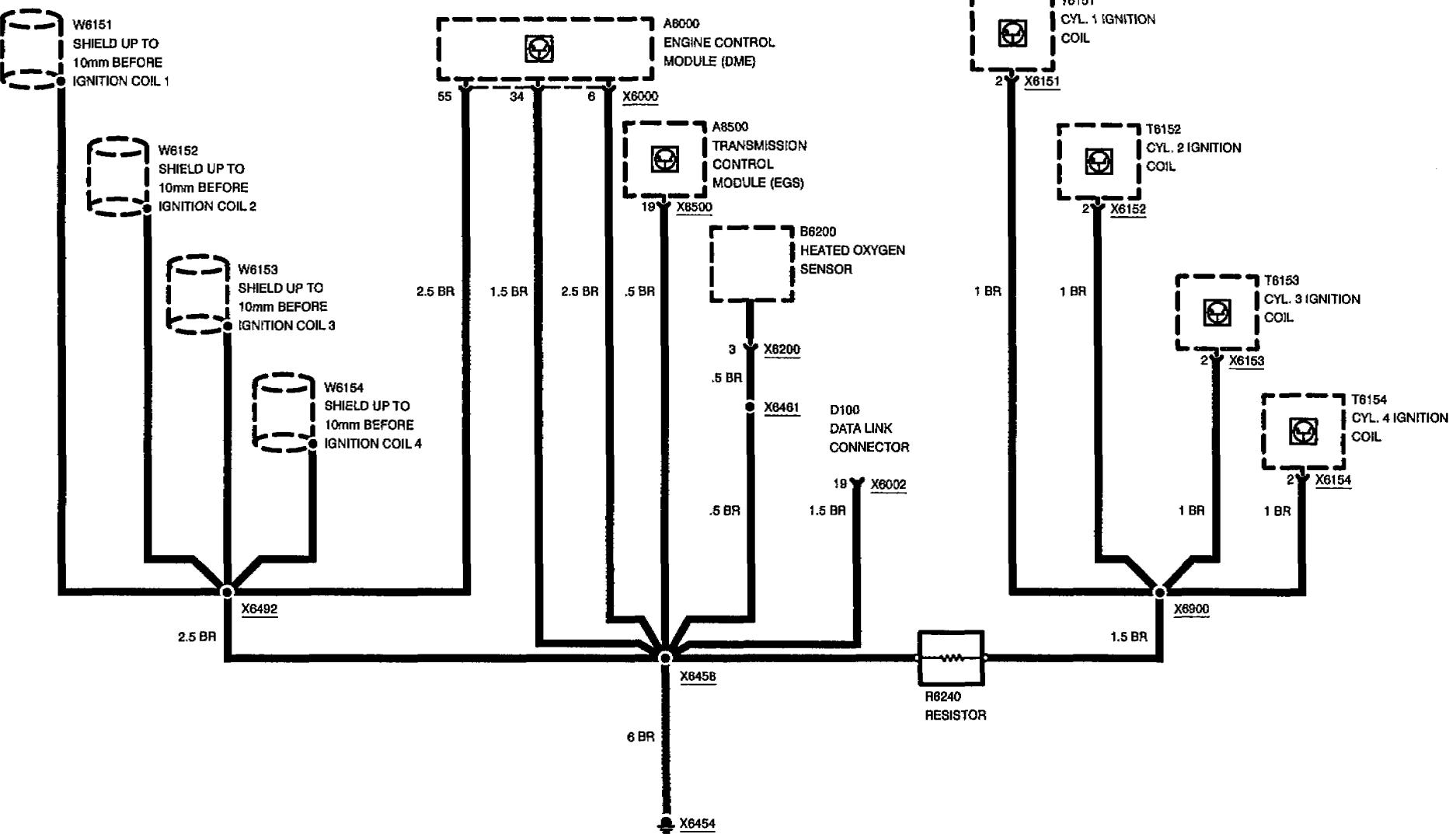
**DATA LINK CONNECTOR, PIN 19**

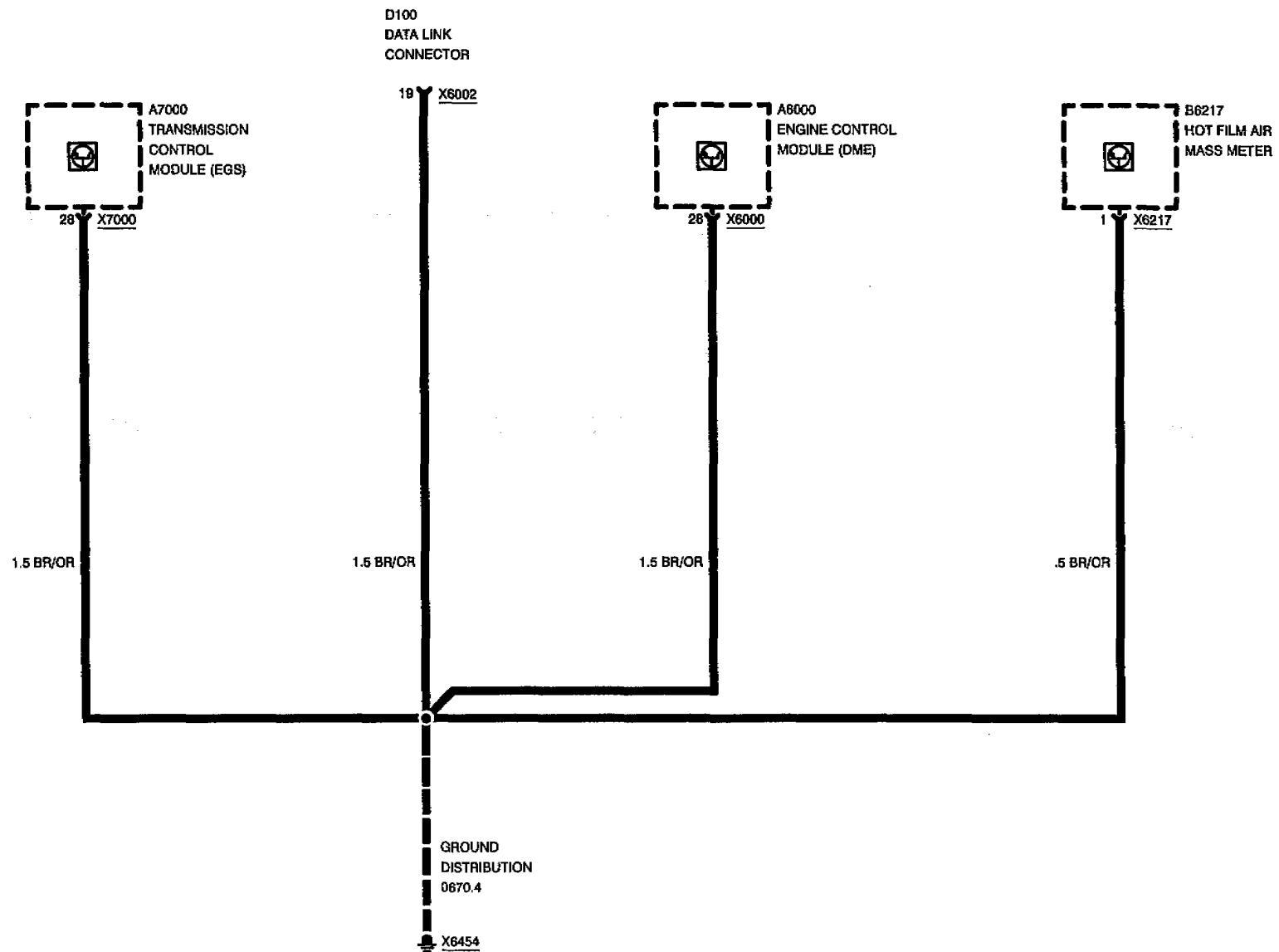
**318is**

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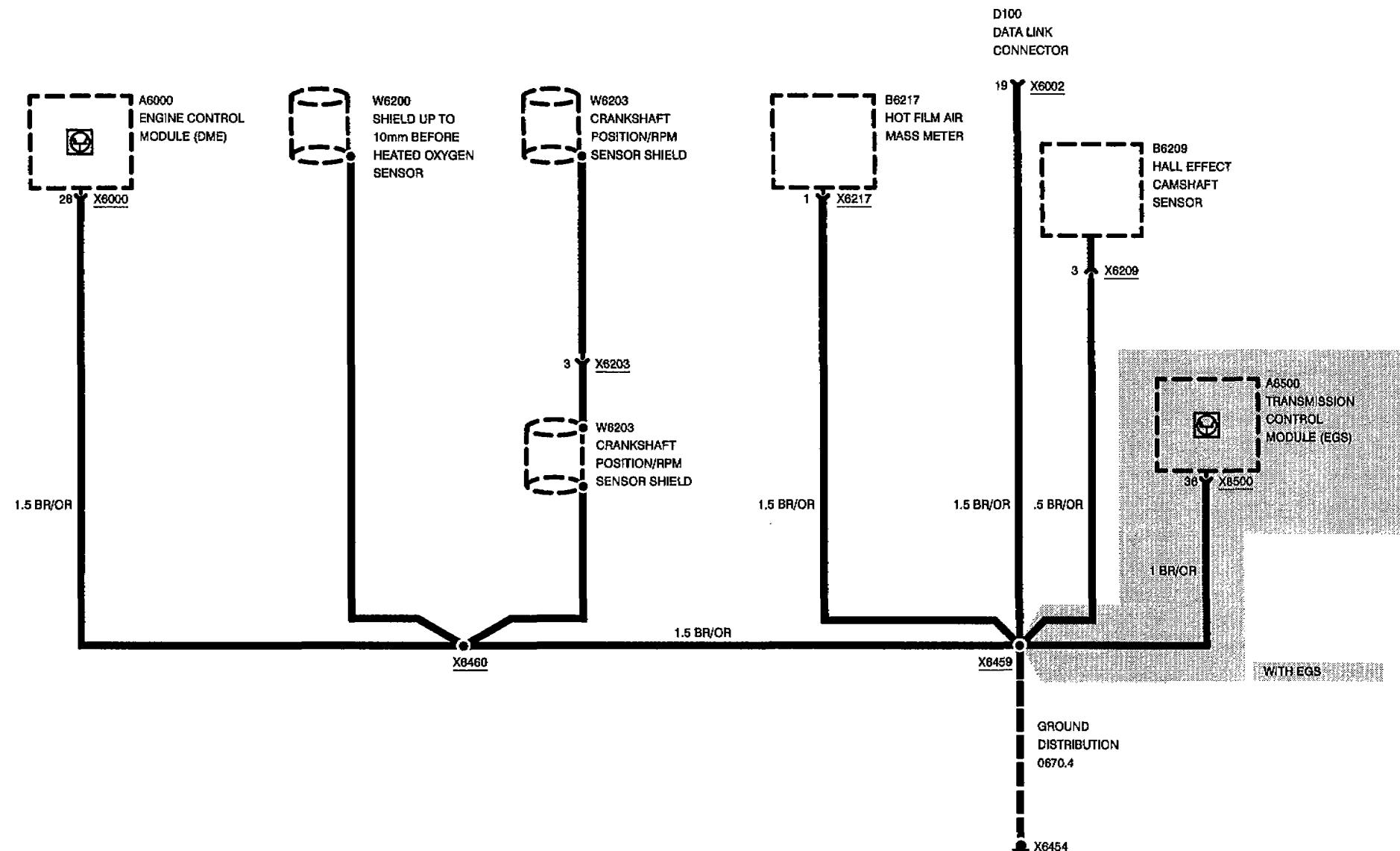




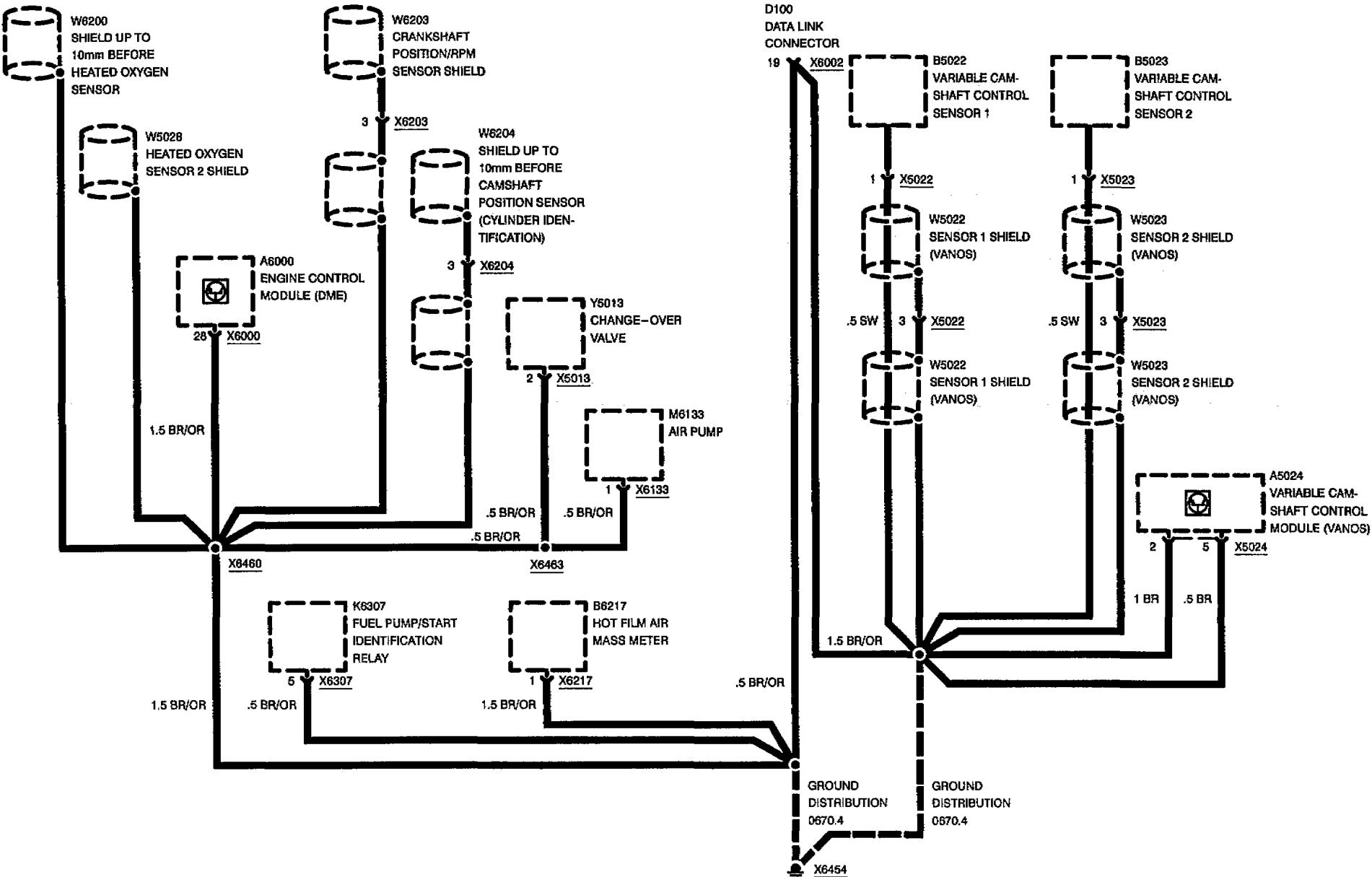
DATA LINK

325i

DATA LINK CONNECTOR, PIN 19



## DATA LINK CONNECTOR, PIN 19



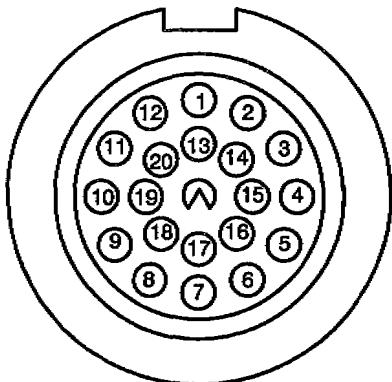


## DATA LINK

### DATA LINK CONNECTOR (X6002)

04/97

0670.5-11



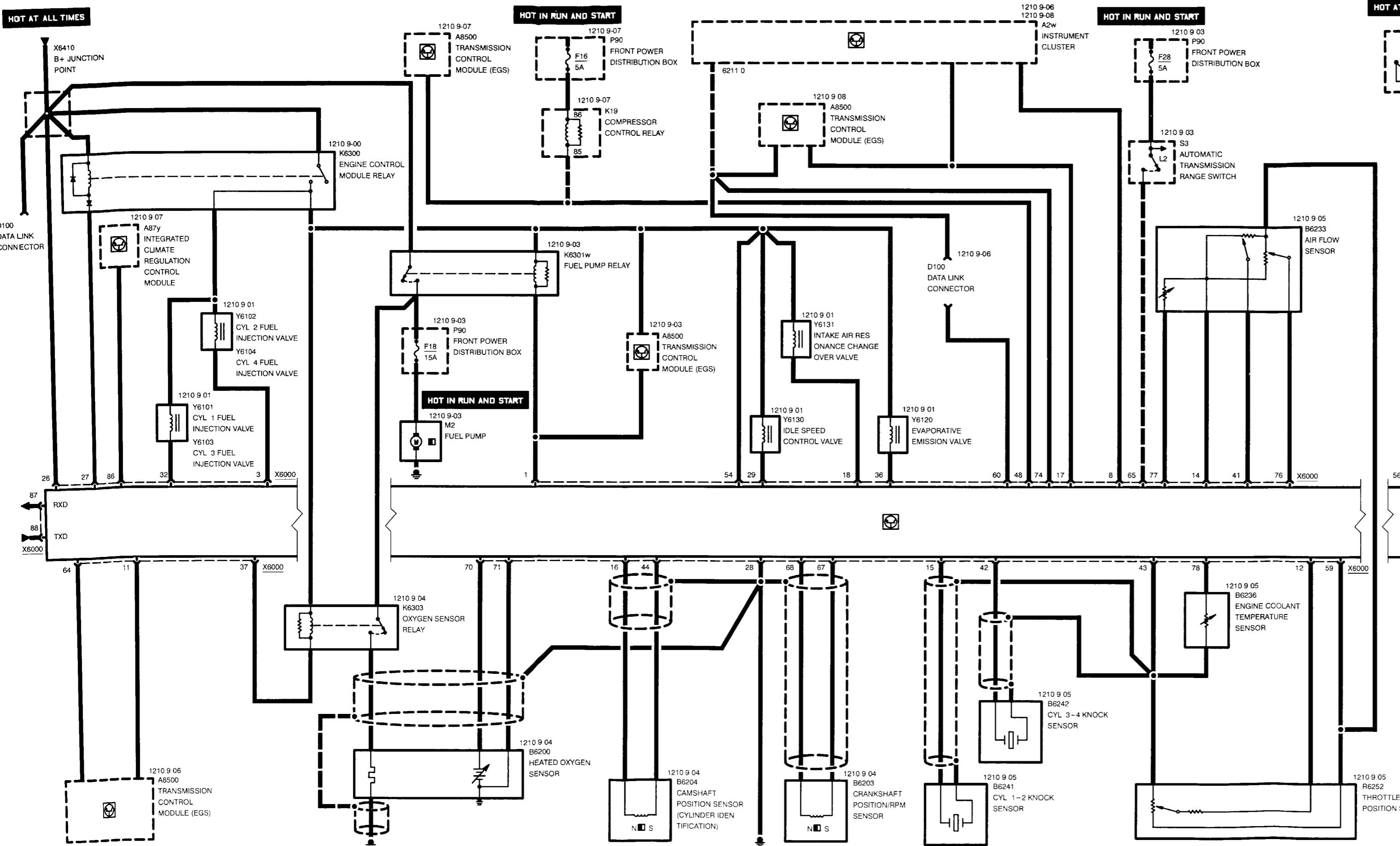
PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	-	ENGINE	SW
2		OBD II CONNECTOR	WS/VI/GE
3	-	NOT OCCUPIED	
4	R	FUSE 46 (328i)	SW/VI/GE
5	-	NOT OCCUPIED	
6	-	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	-	NOT OCCUPIED	
9	-	NOT OCCUPIED	
10	-	NOT OCCUPIED	
11	-	NOT OCCUPIED	
12	61(D+)	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

1996

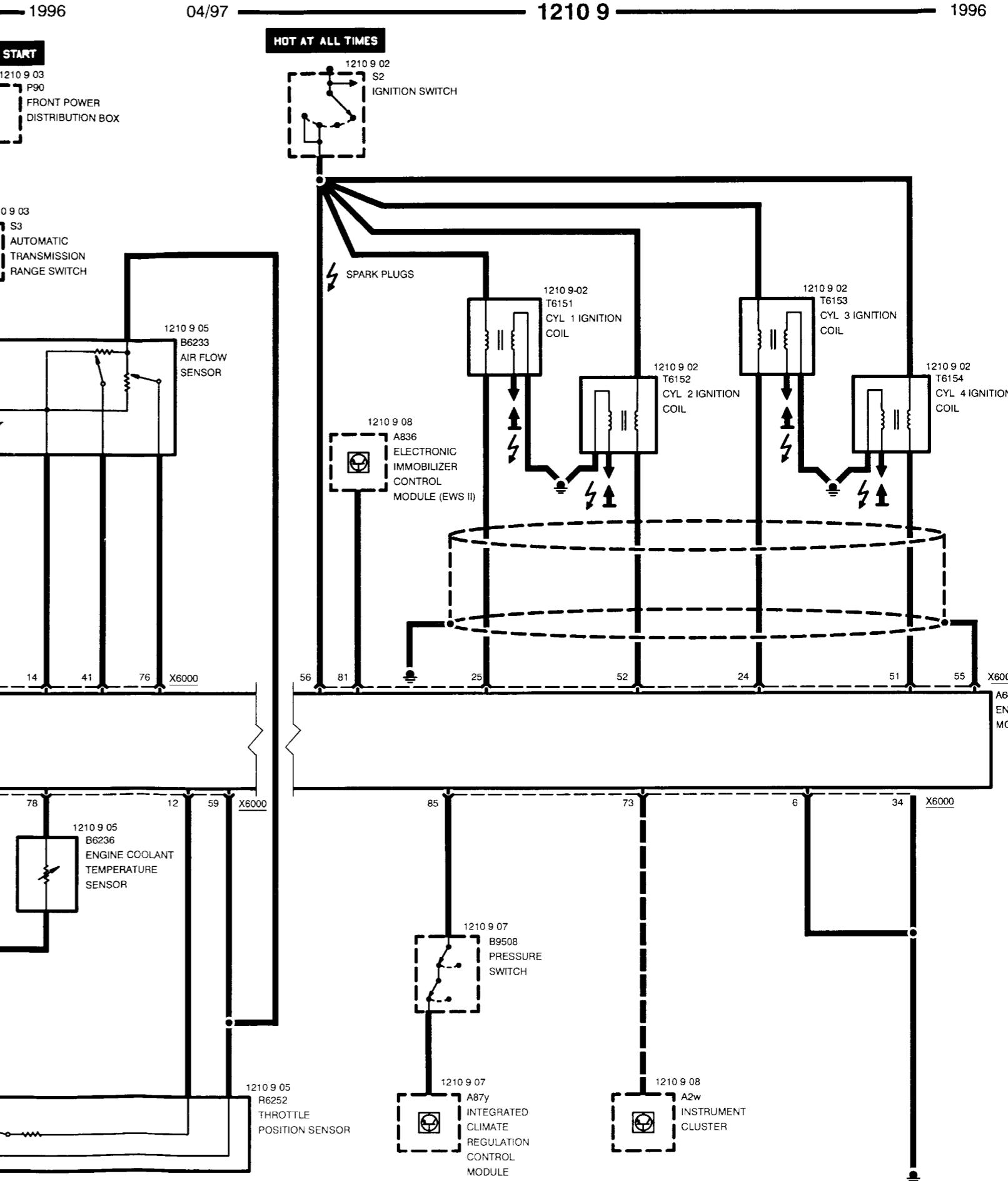


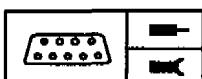
0670.5-12

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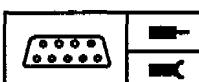


## Pin Assignments

### 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

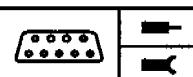
E = Input, A = Output, M = Ground



## 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 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	

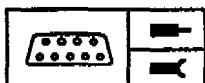
E = Input, A = Output, M = Ground



## 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)	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



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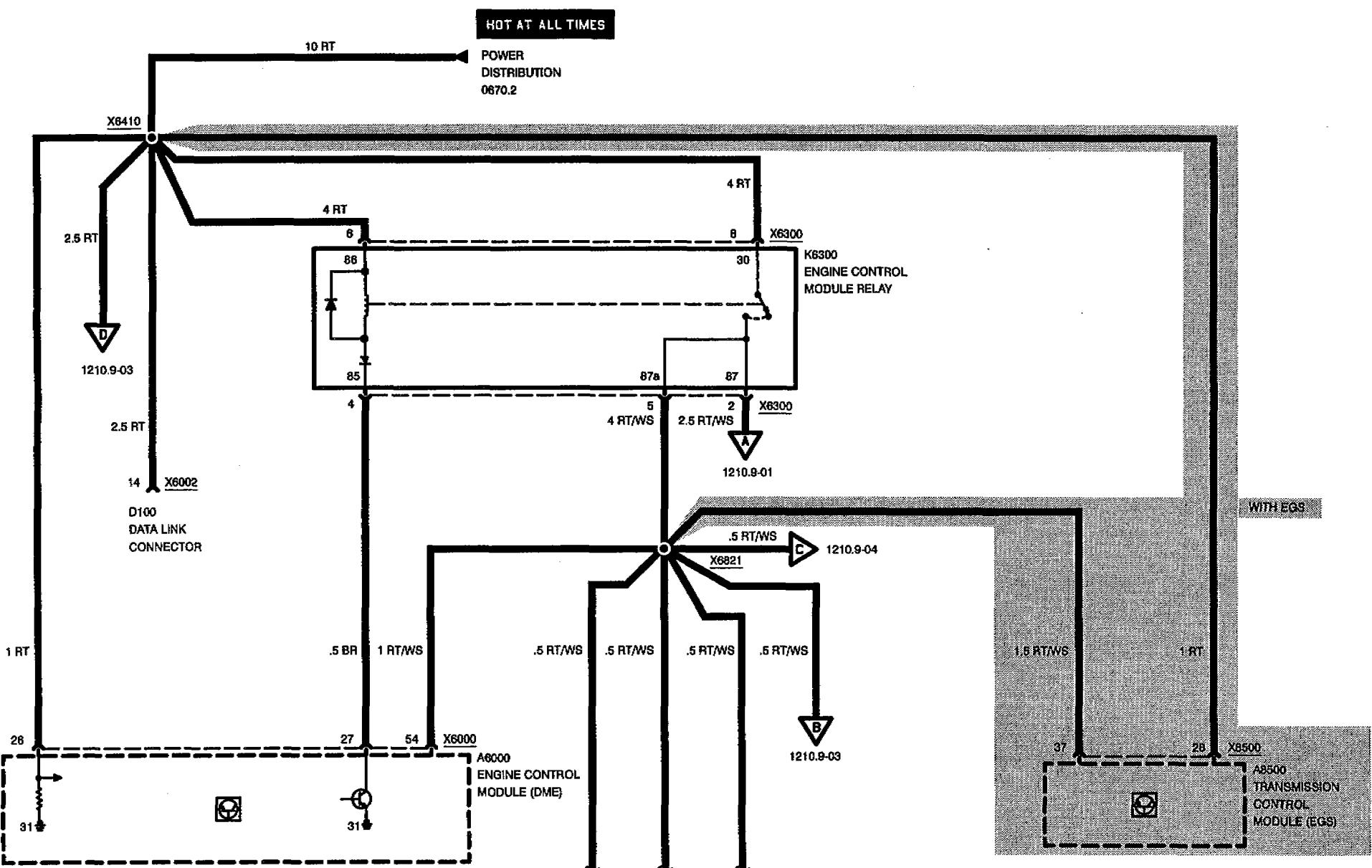
1210.9

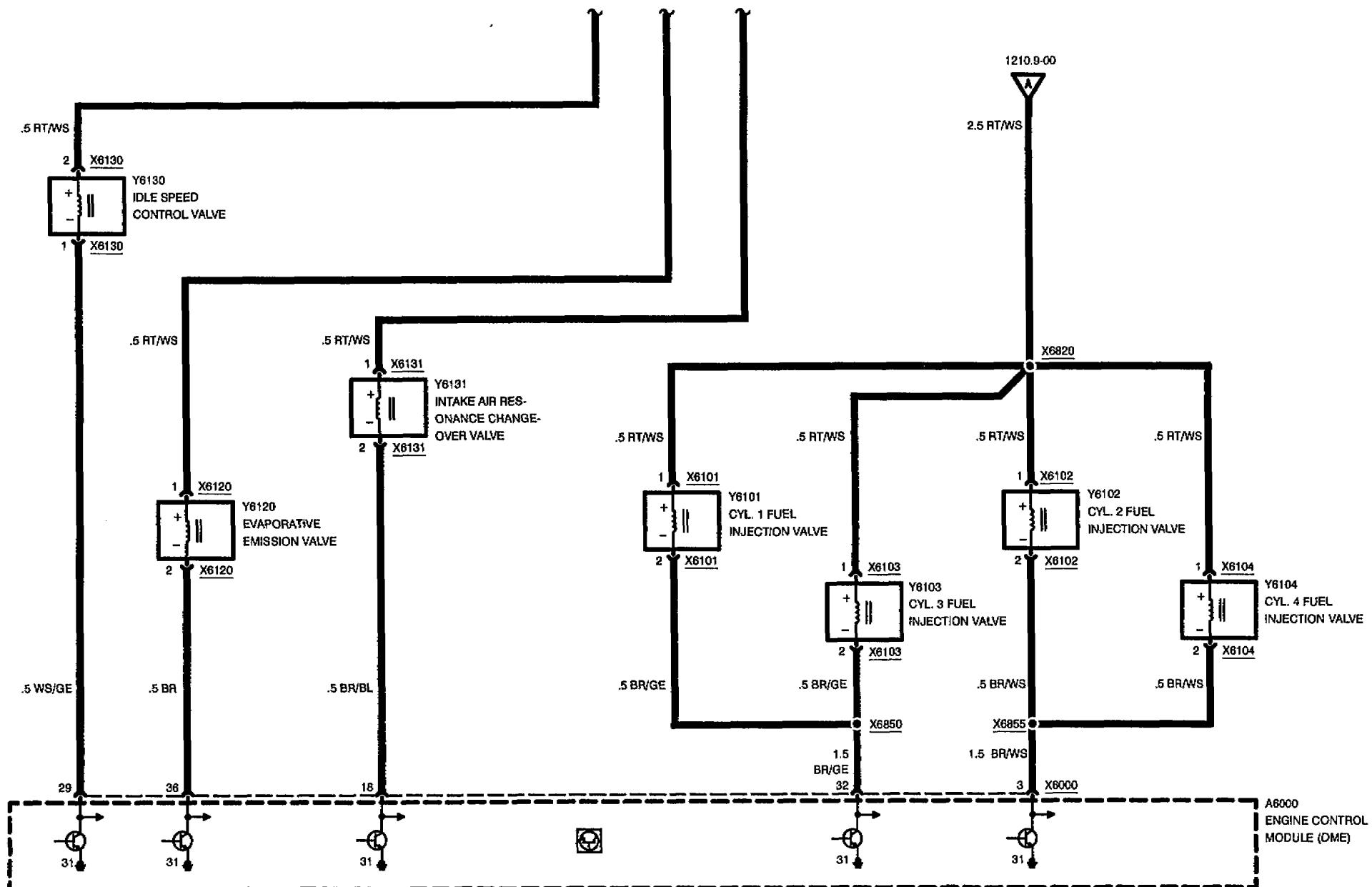


# ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

## POWER, FUEL INJECTION VALVES

04/97







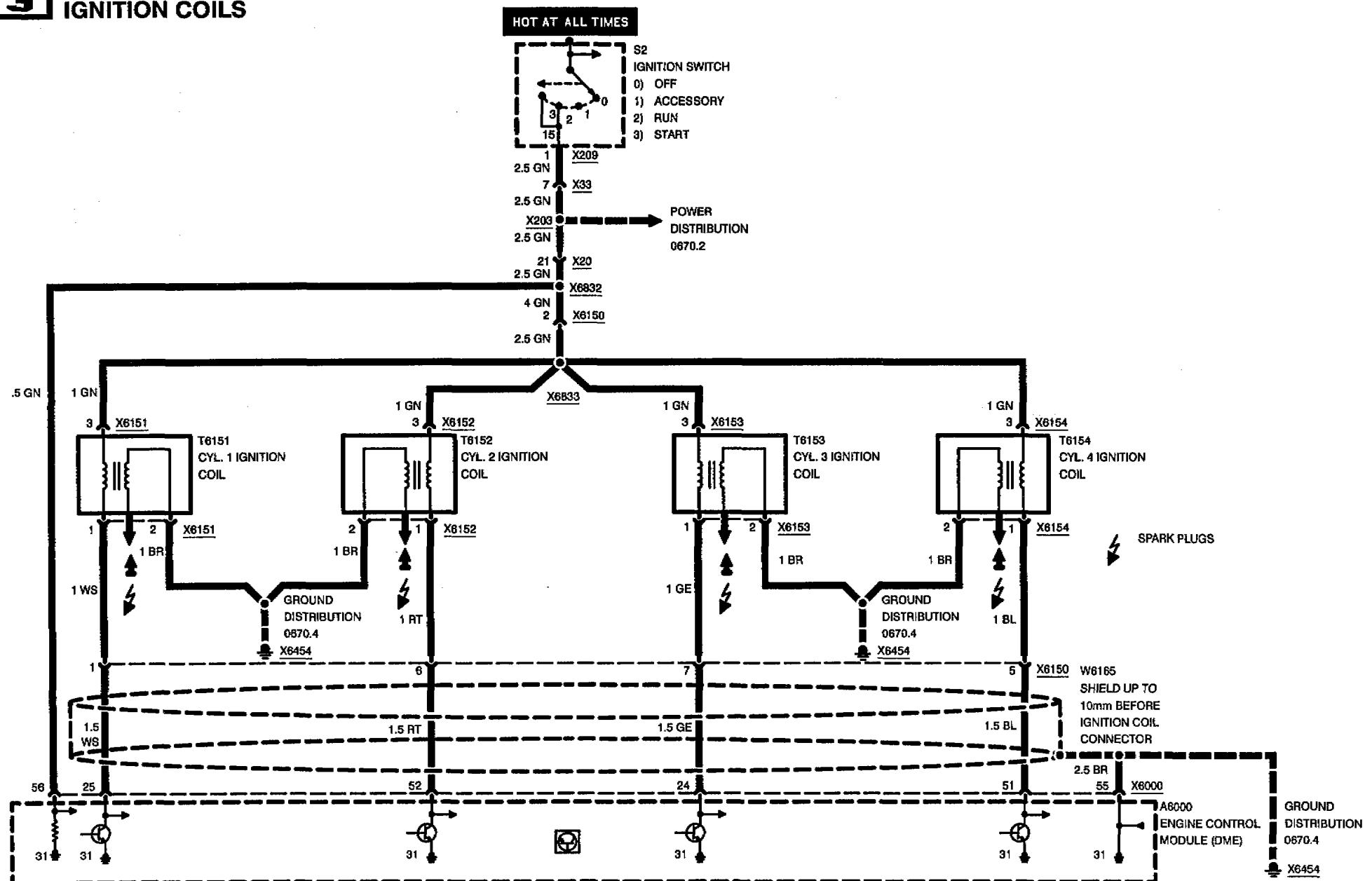
# ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

## IGNITION COILS

04/97

1210.9-02

1996

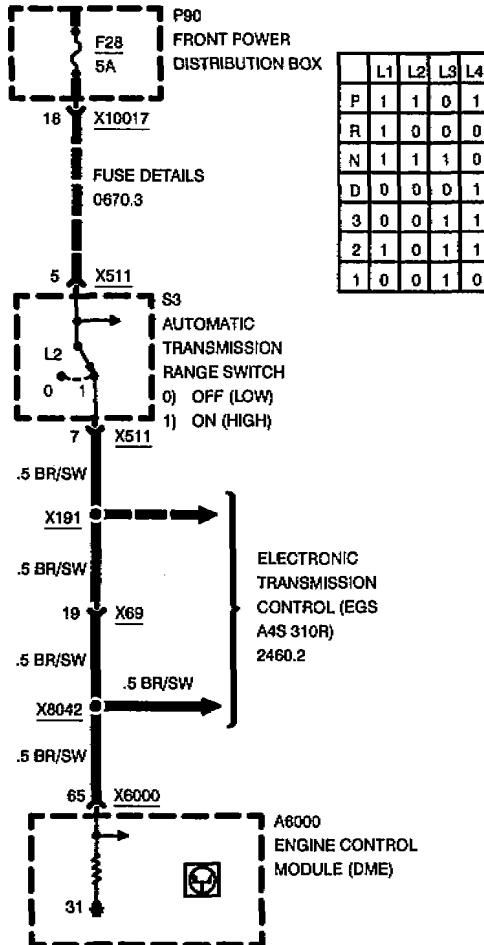




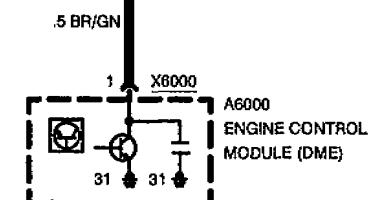
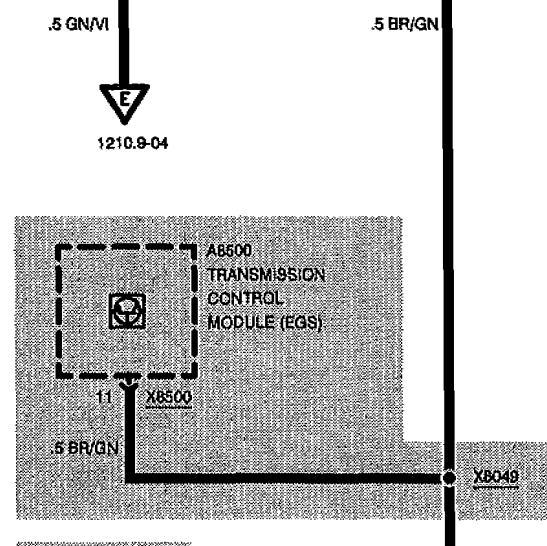
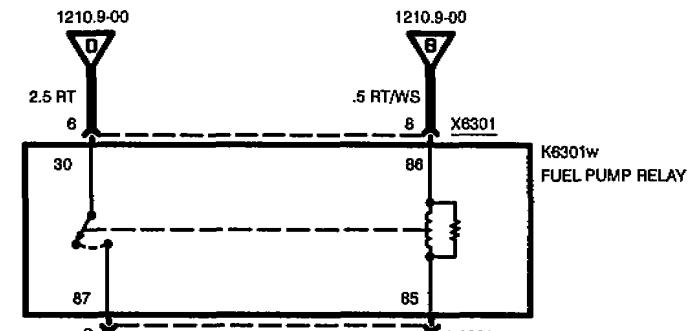
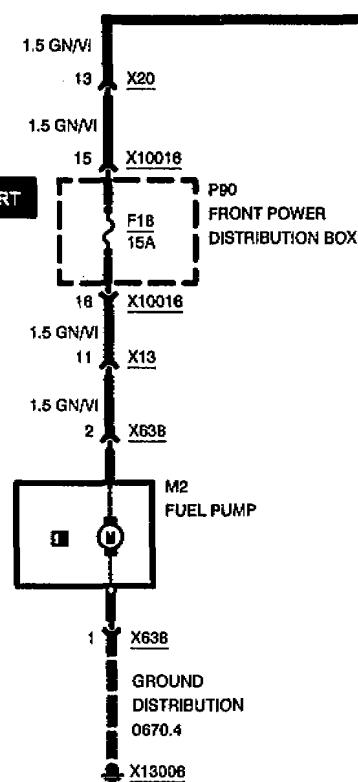
## ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

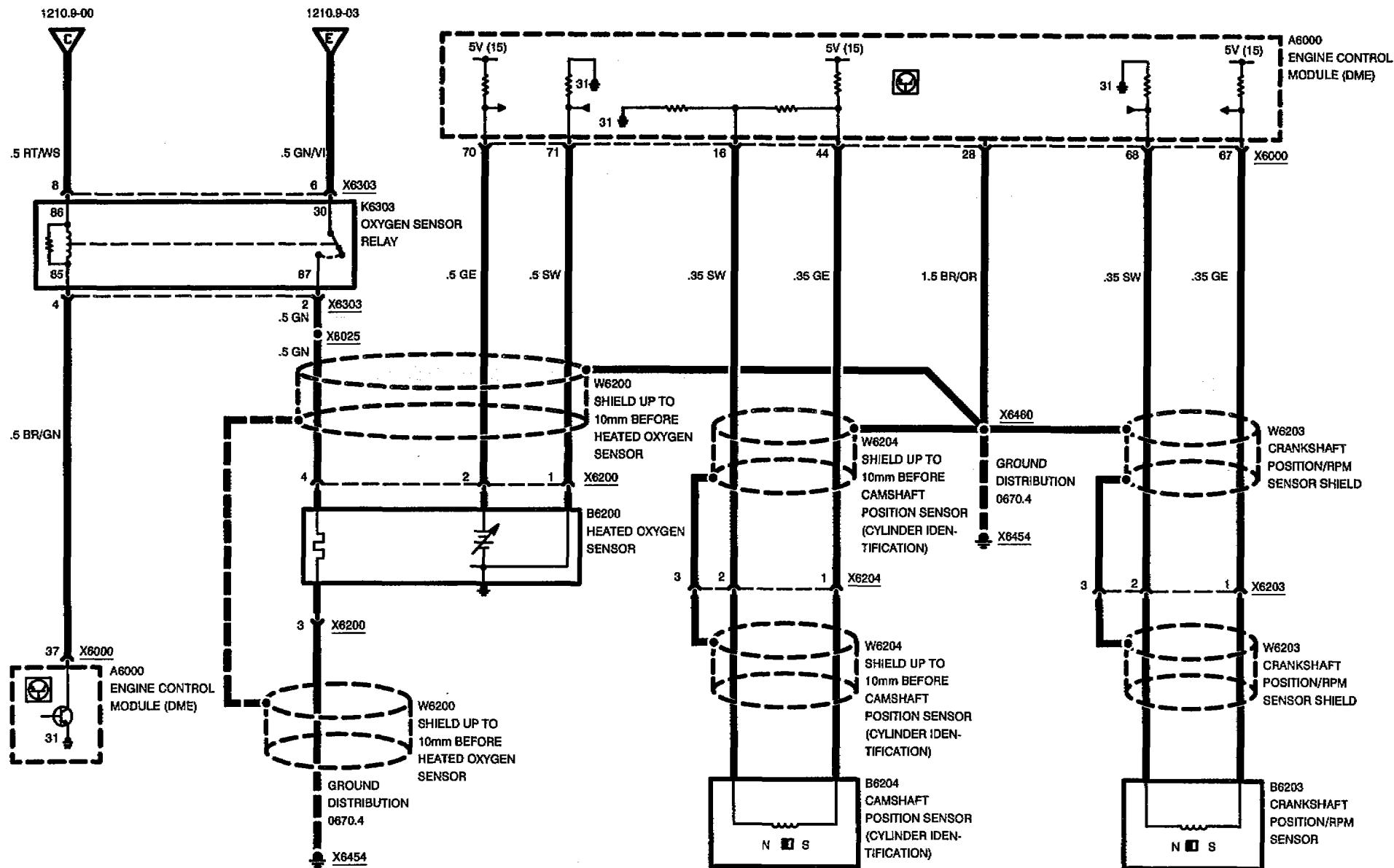
### FUEL PUMP

HOT IN RUN AND START



HOT IN RUN AND START

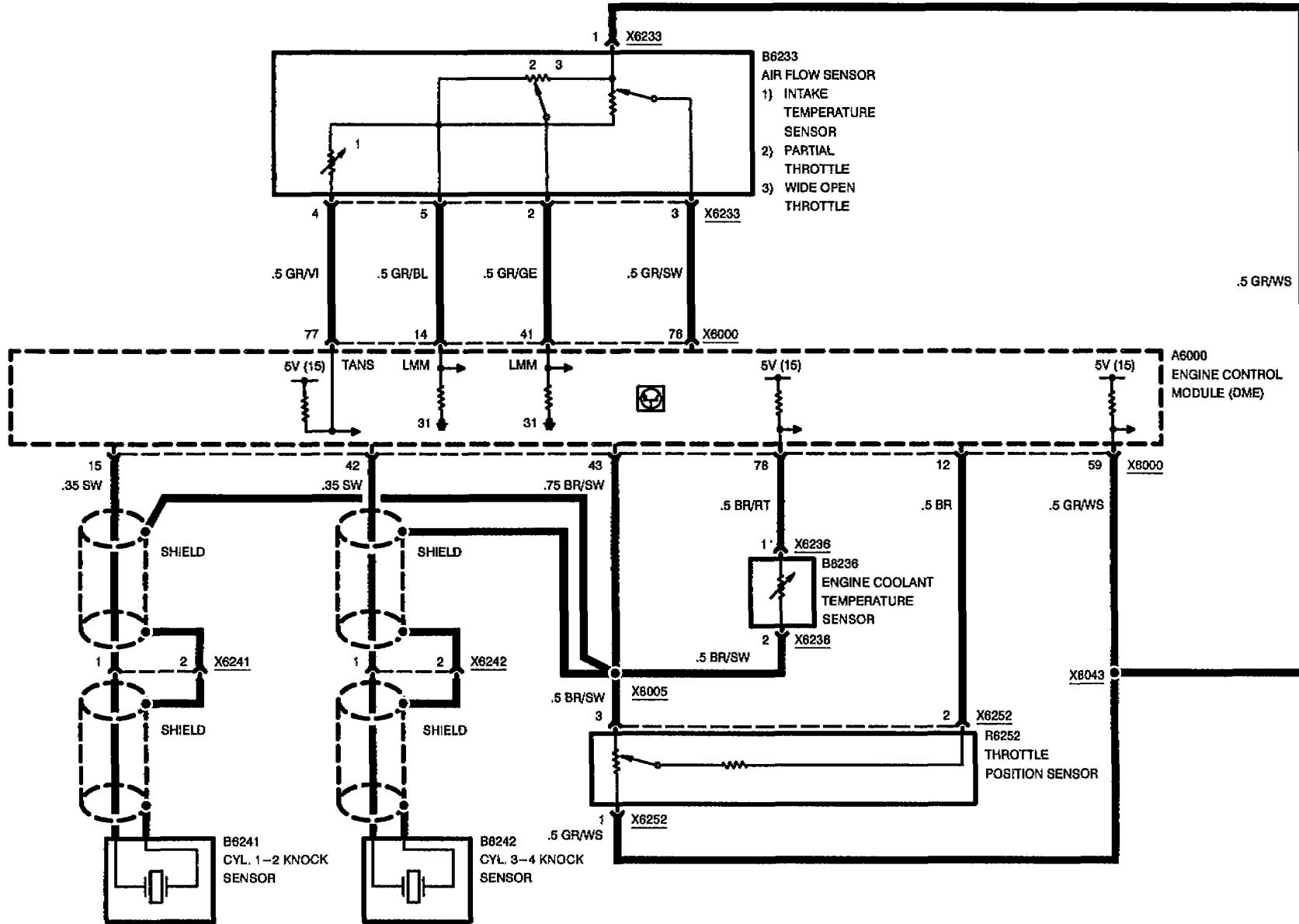


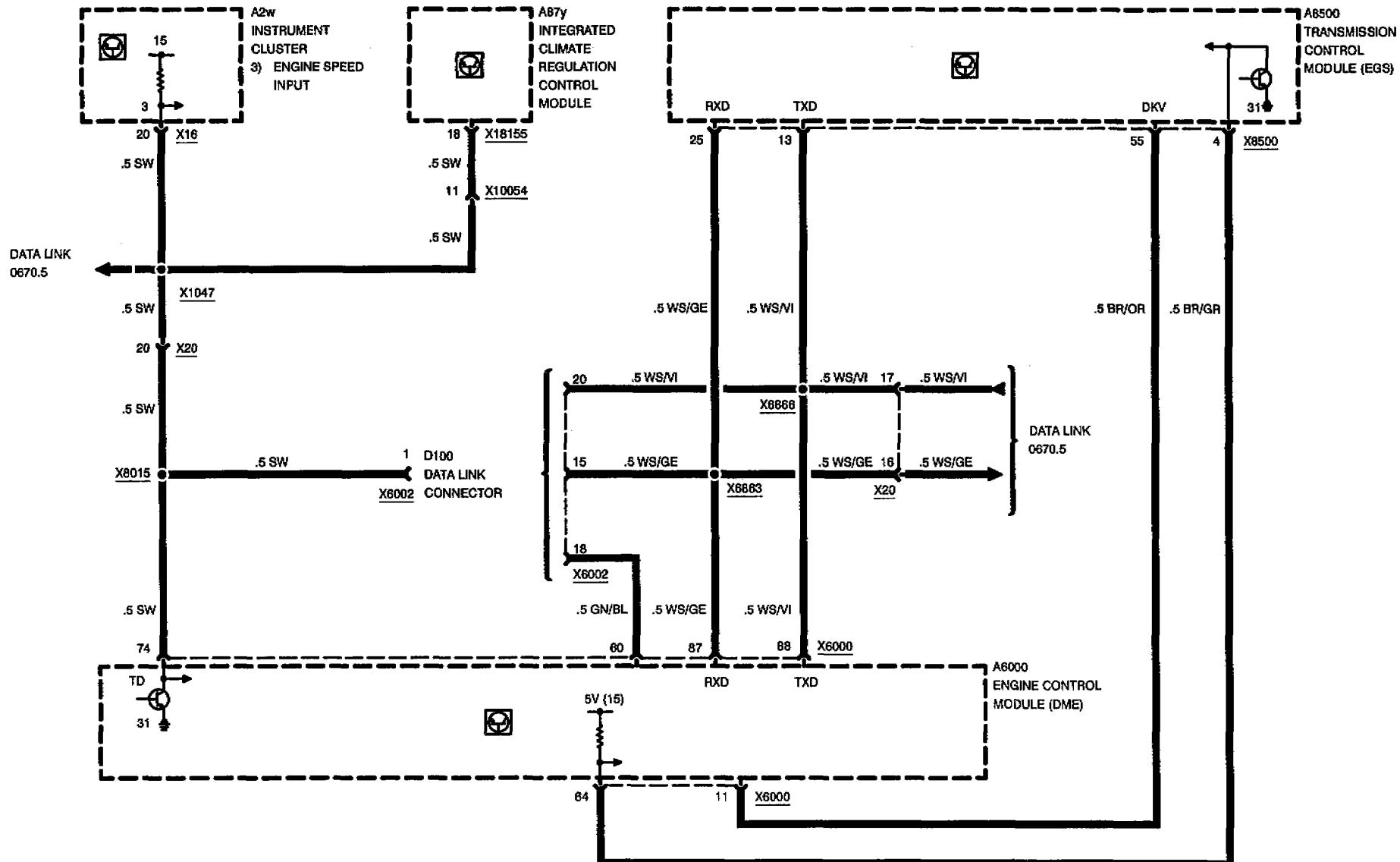


1210.9-04

1996

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





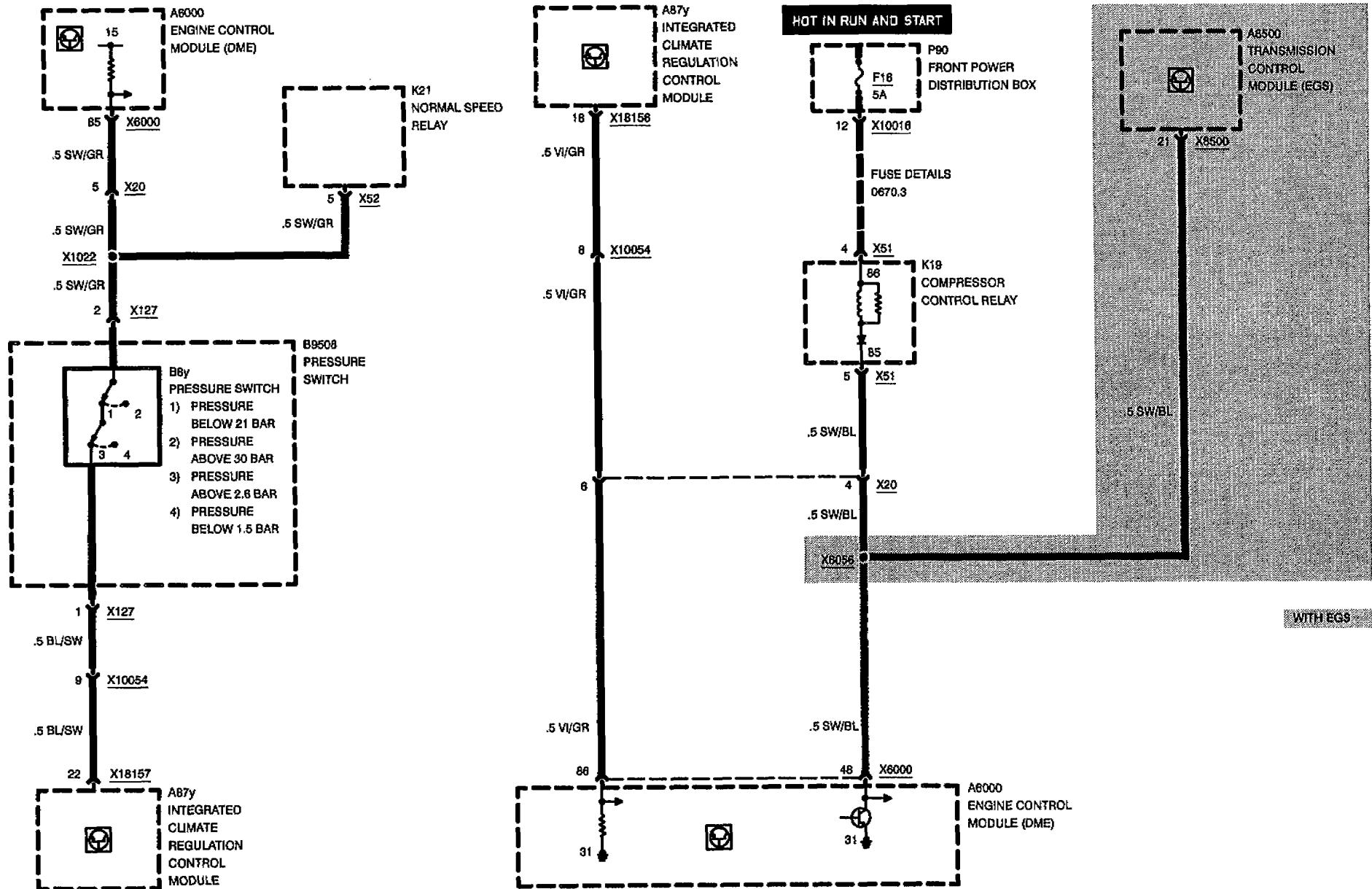


## ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

04/97

1210.9-07

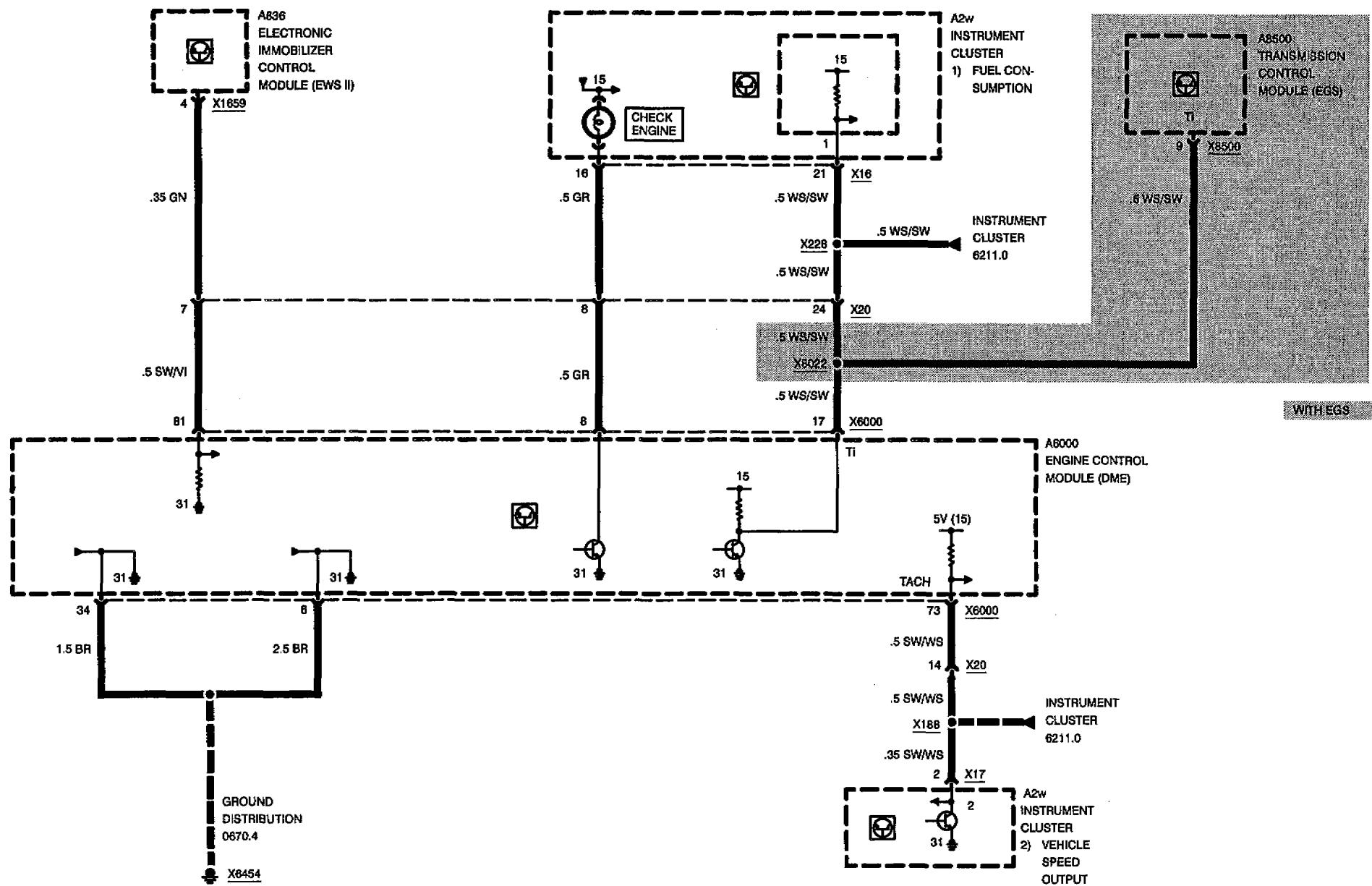
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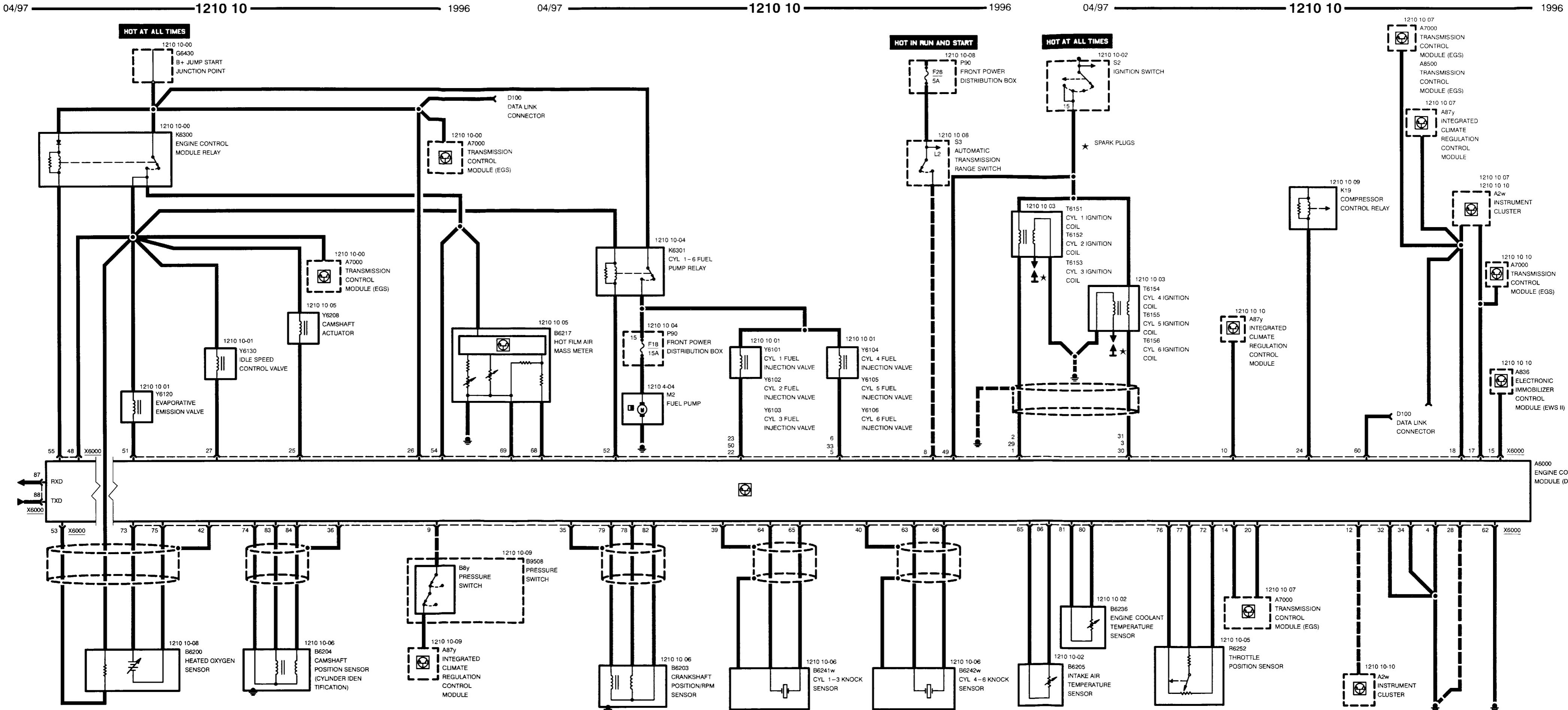


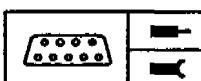


# ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

04/97





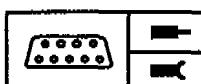


## Pin Assignments

### 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	Tl-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

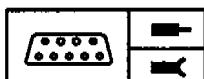
E = Input, A = Output, M = Ground



## 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

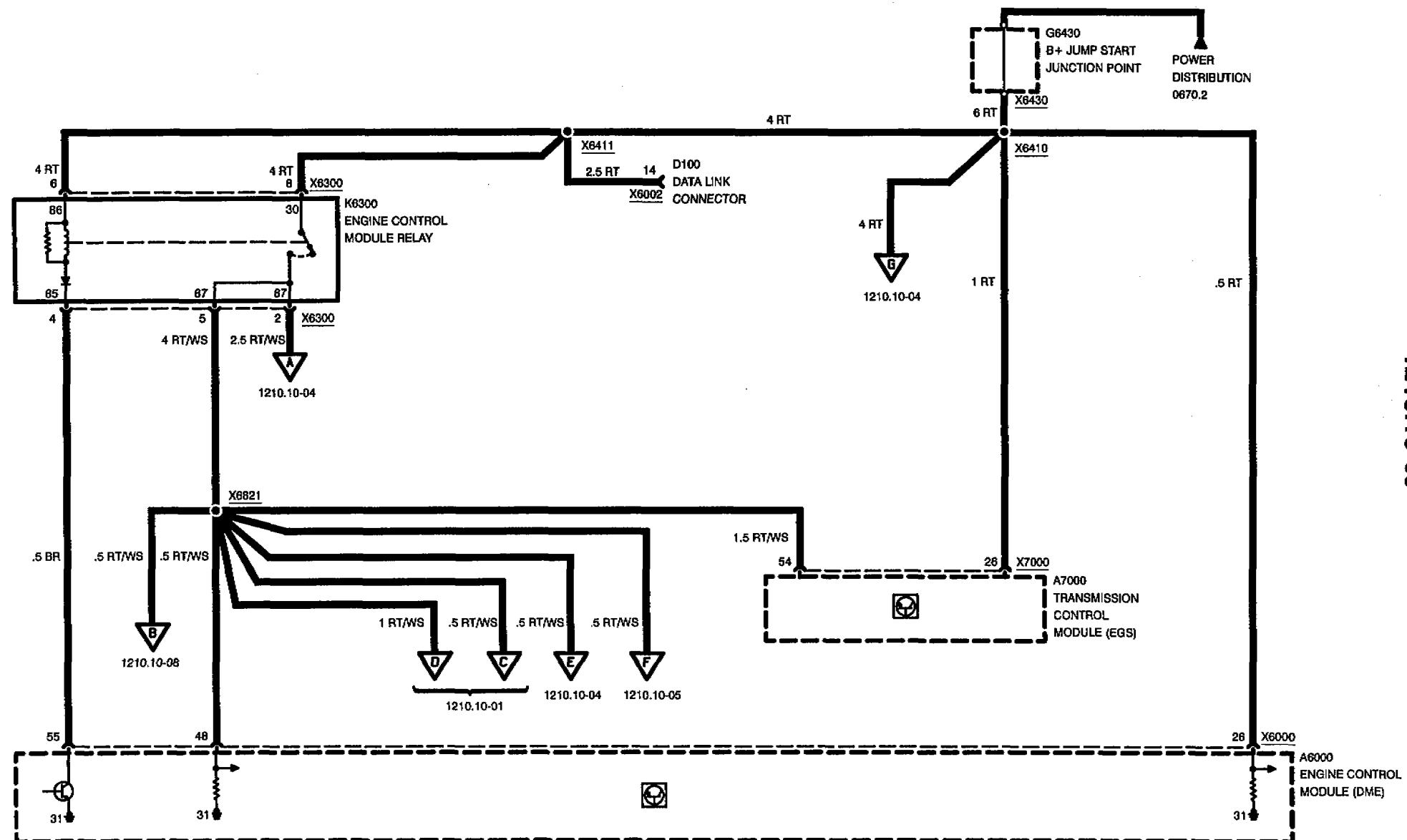
E = Input, A = Output, M = Ground



# ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)



POWER



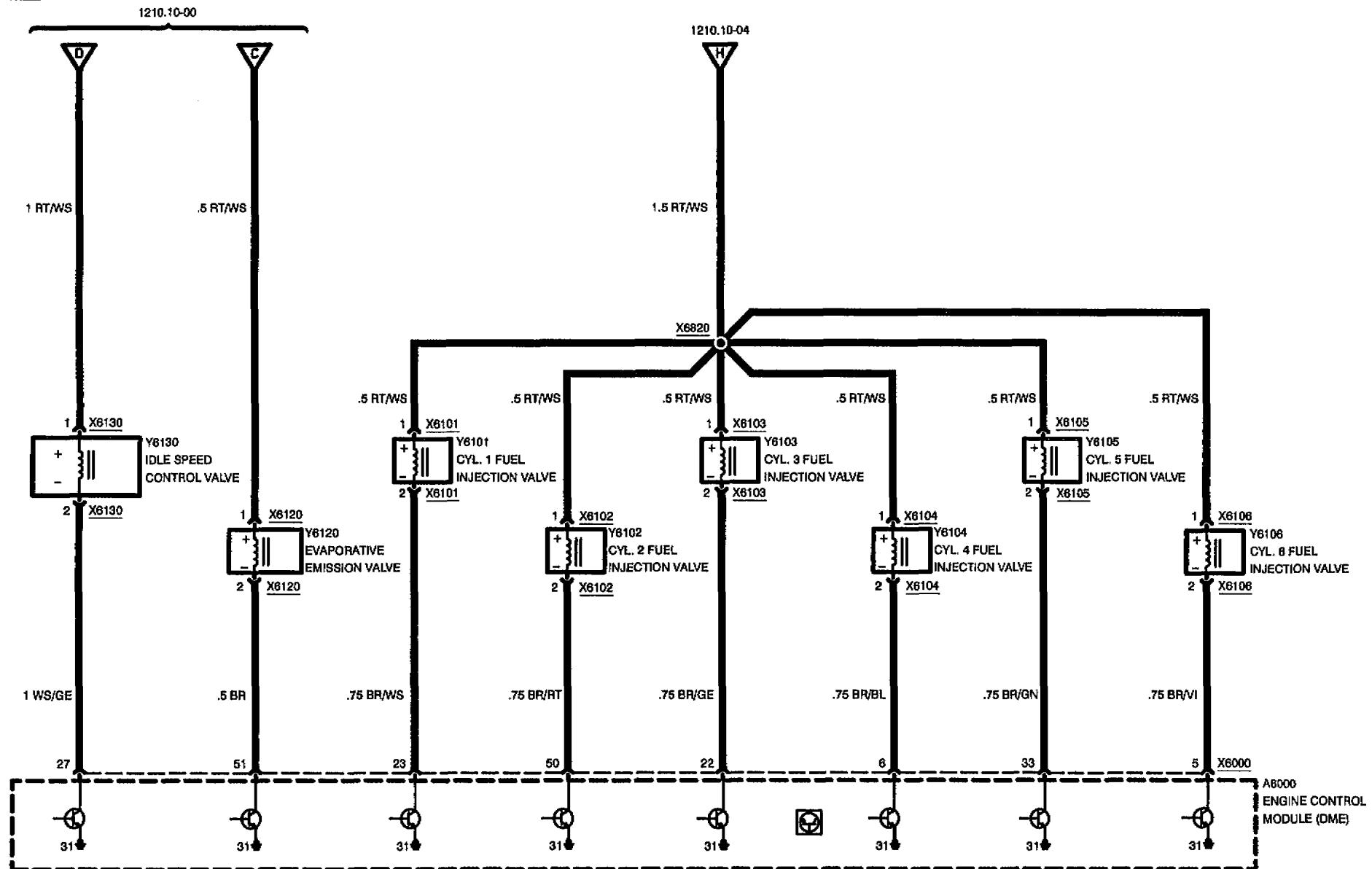


# ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

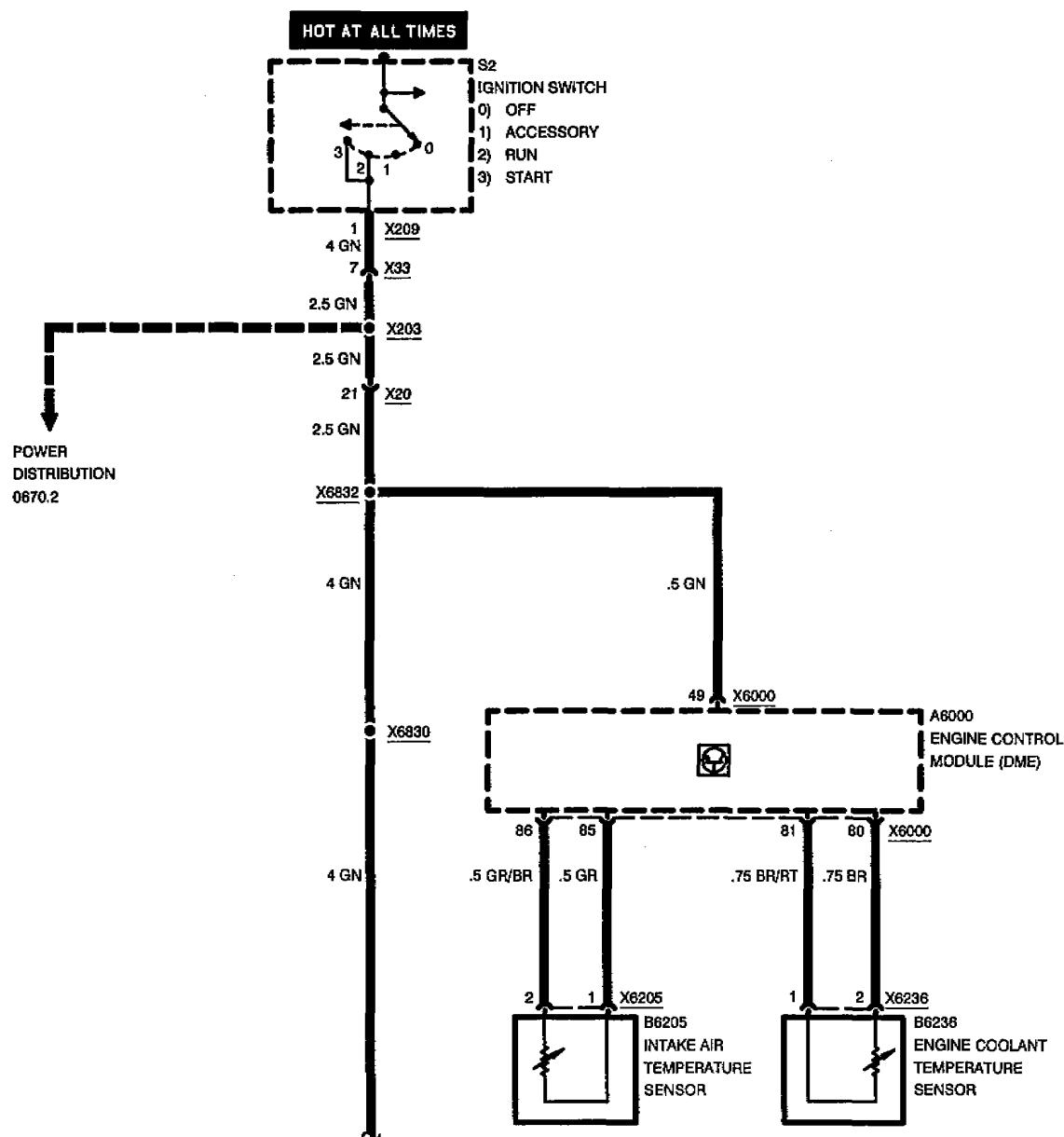
CDN

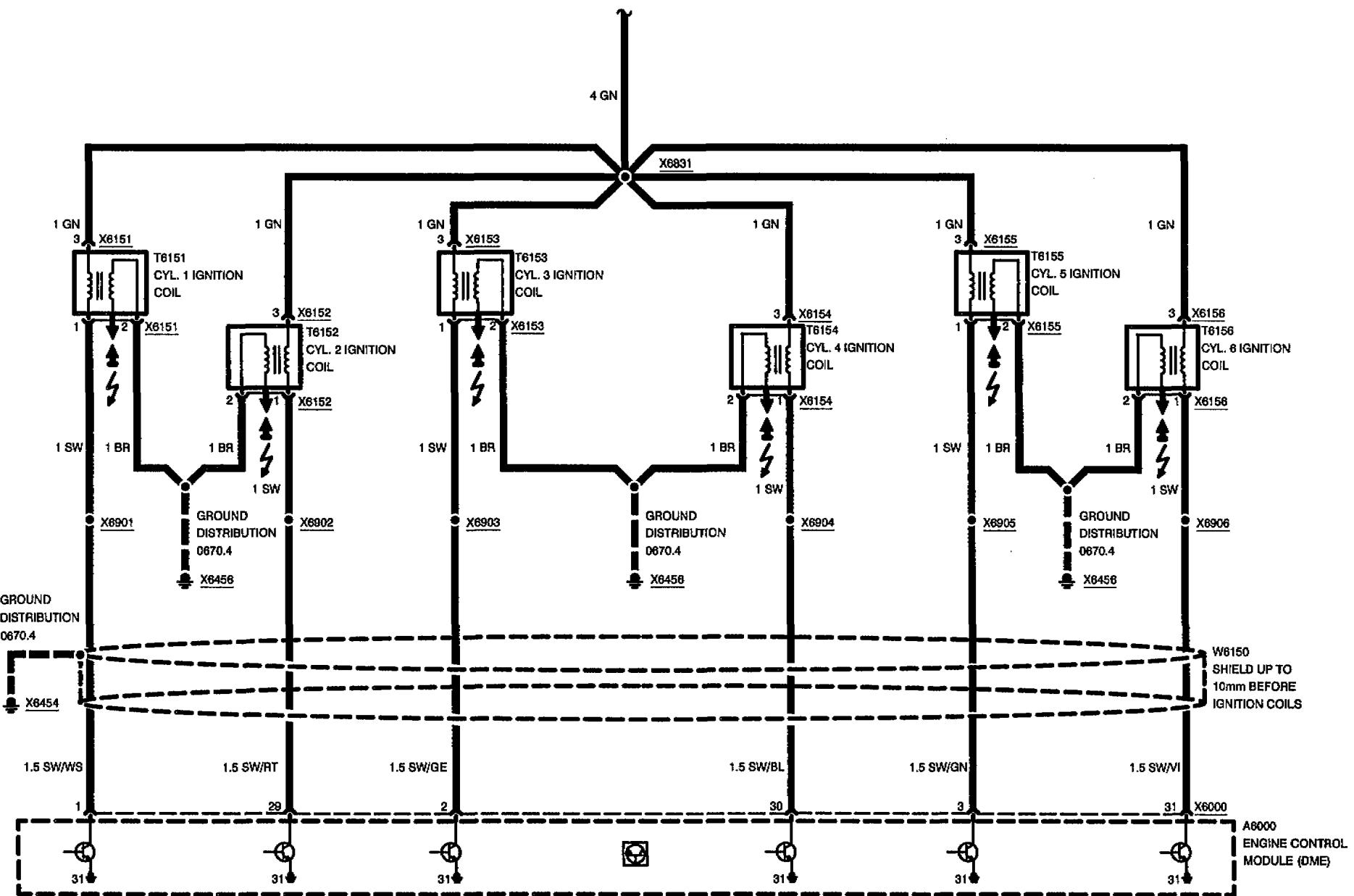
04/97

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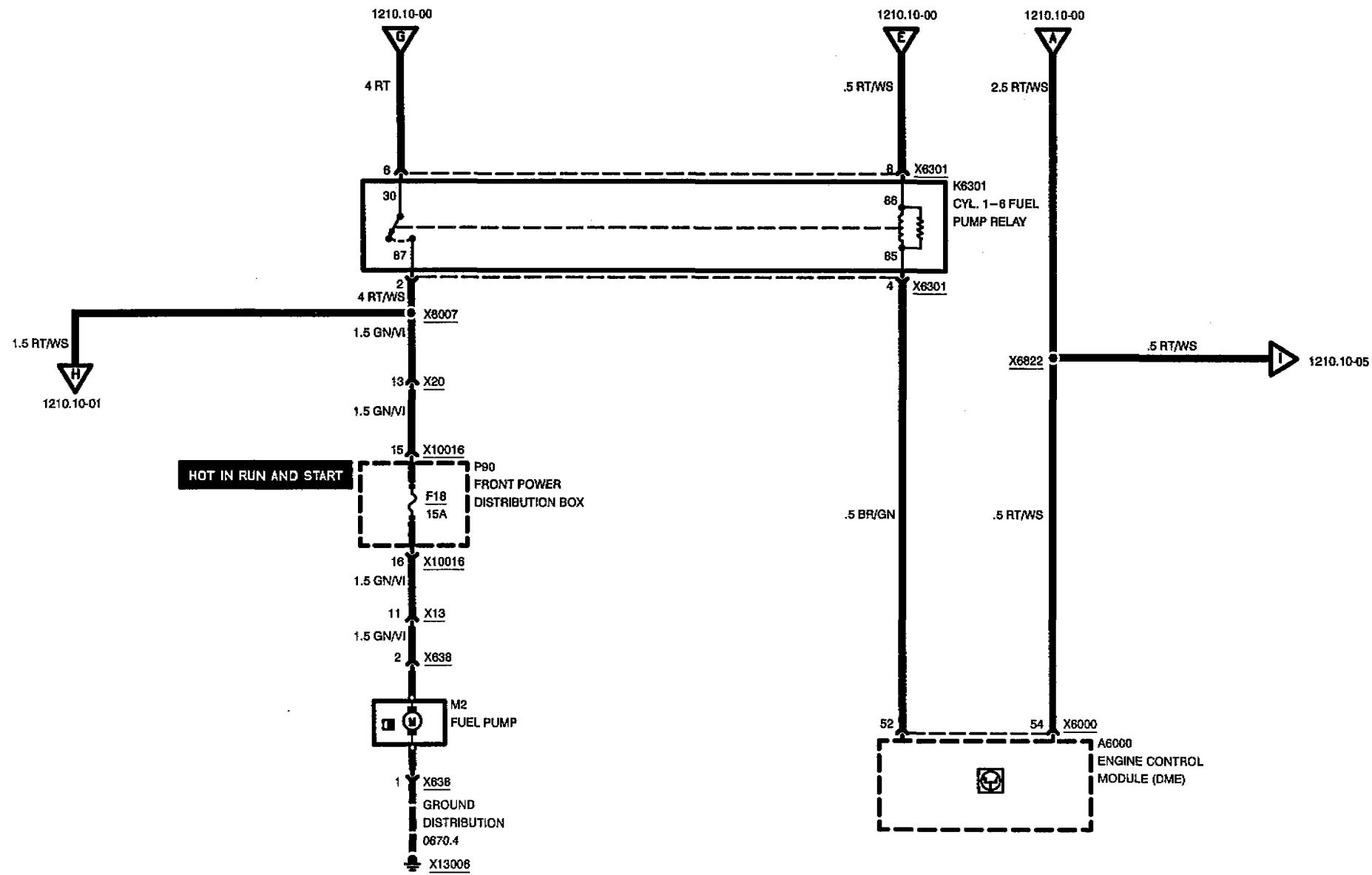




# ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

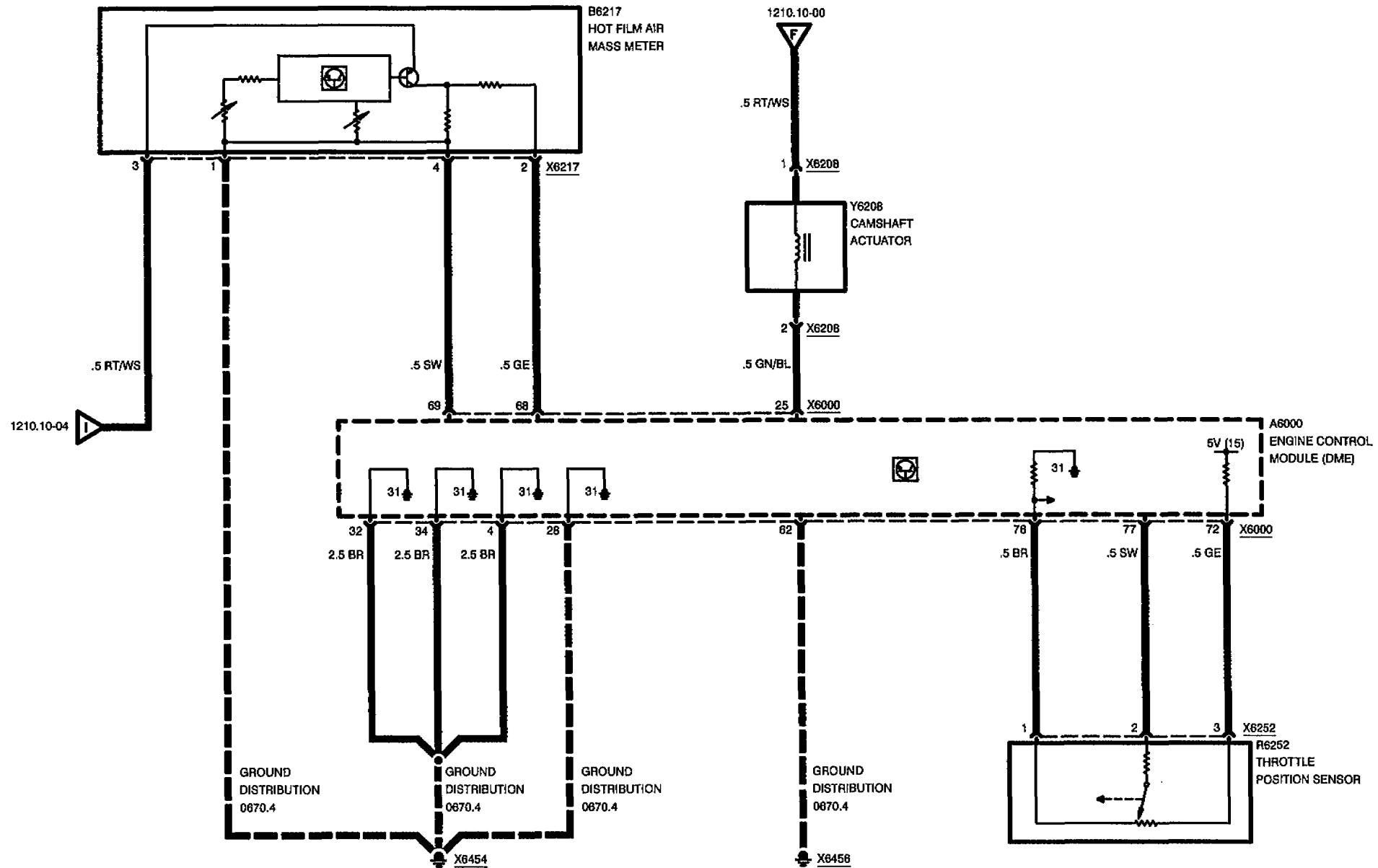


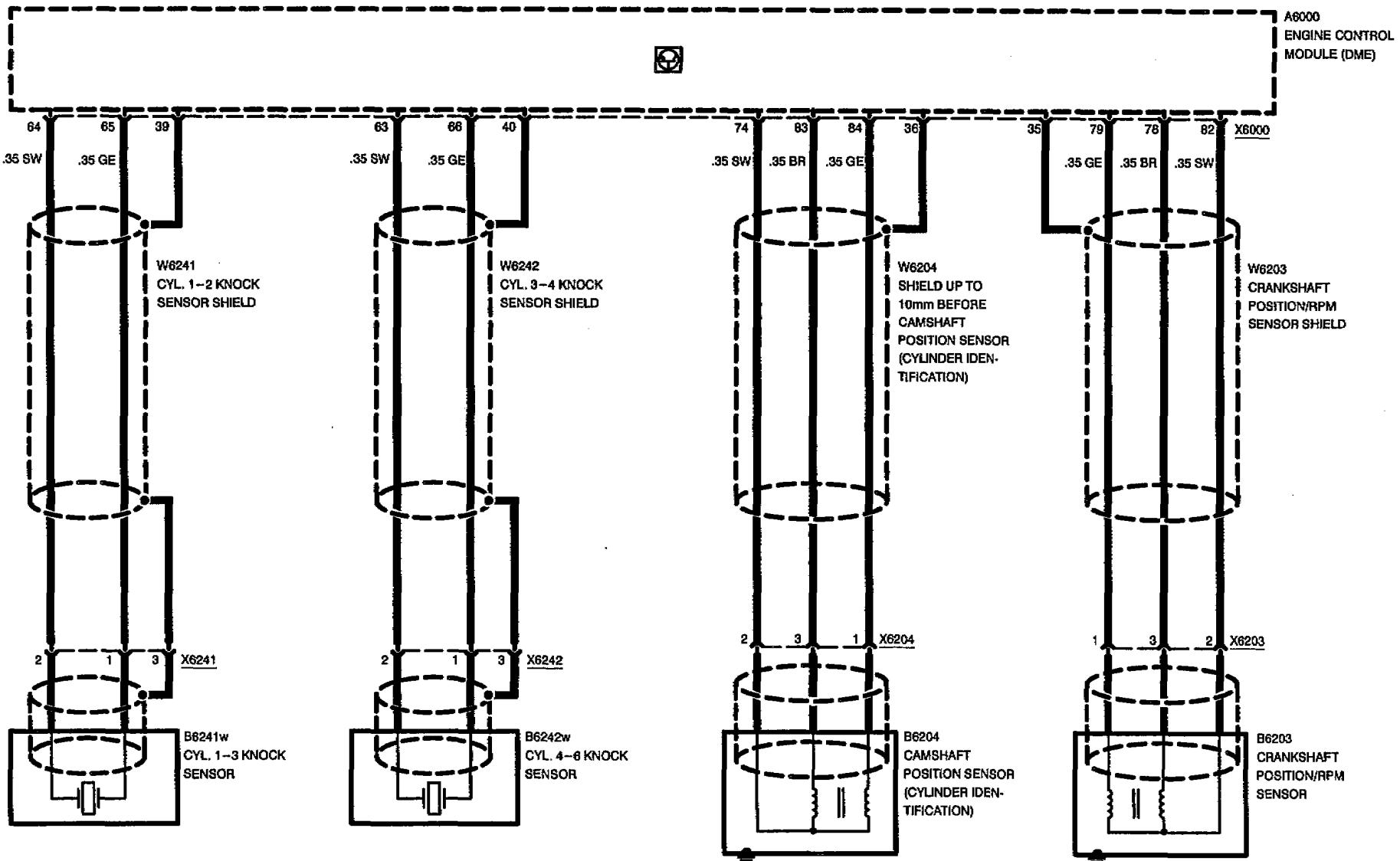
04/97

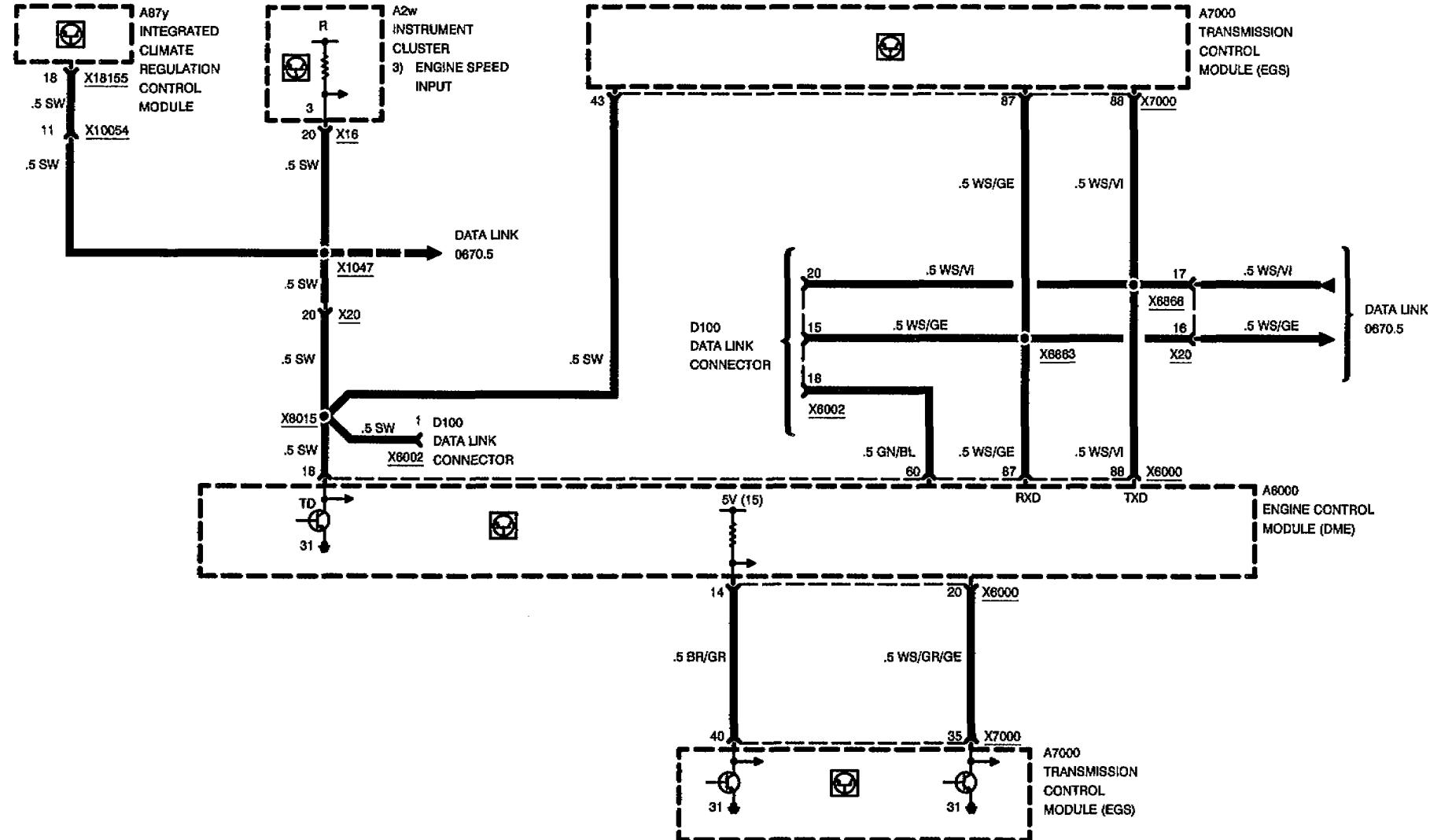


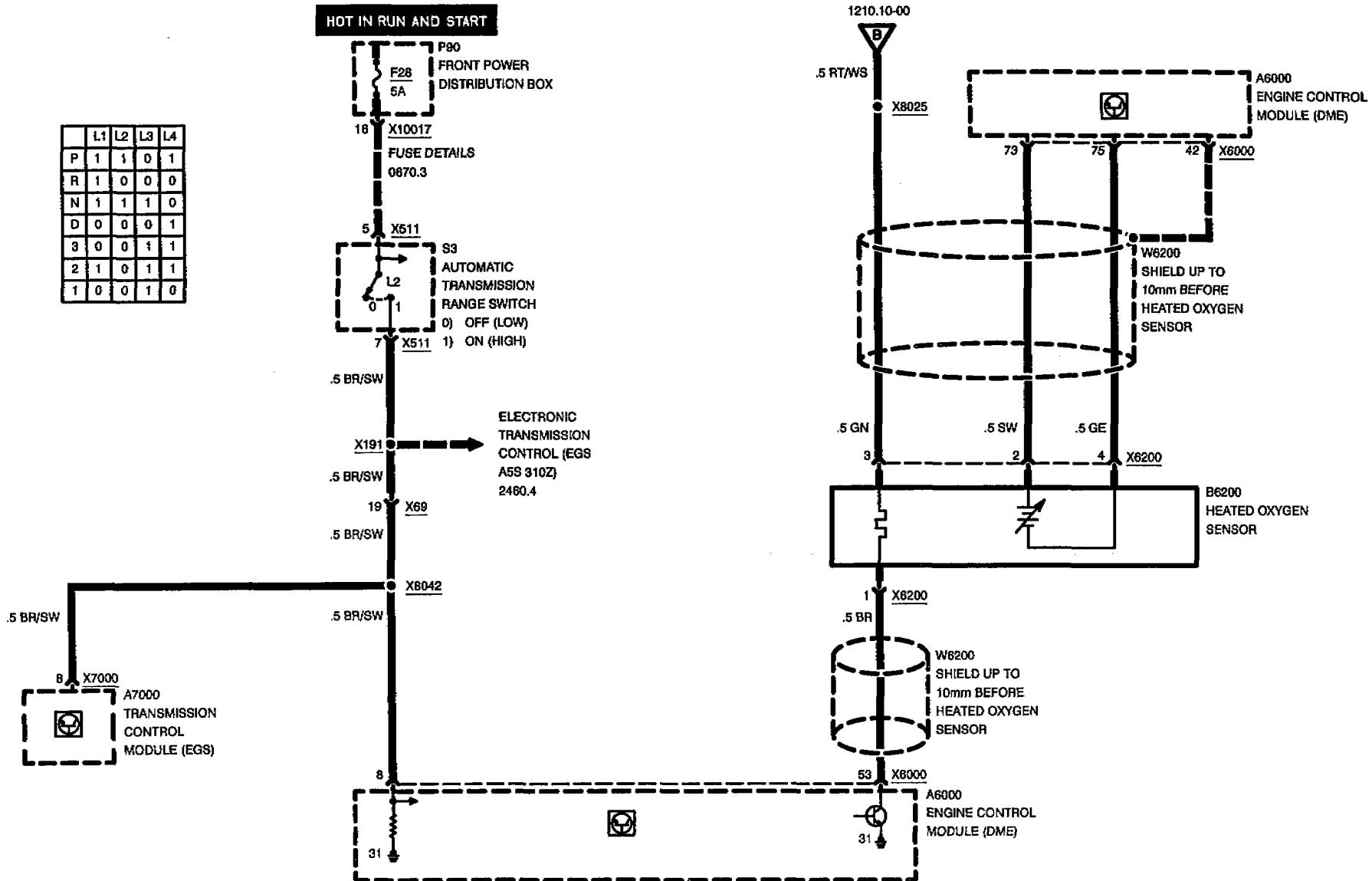
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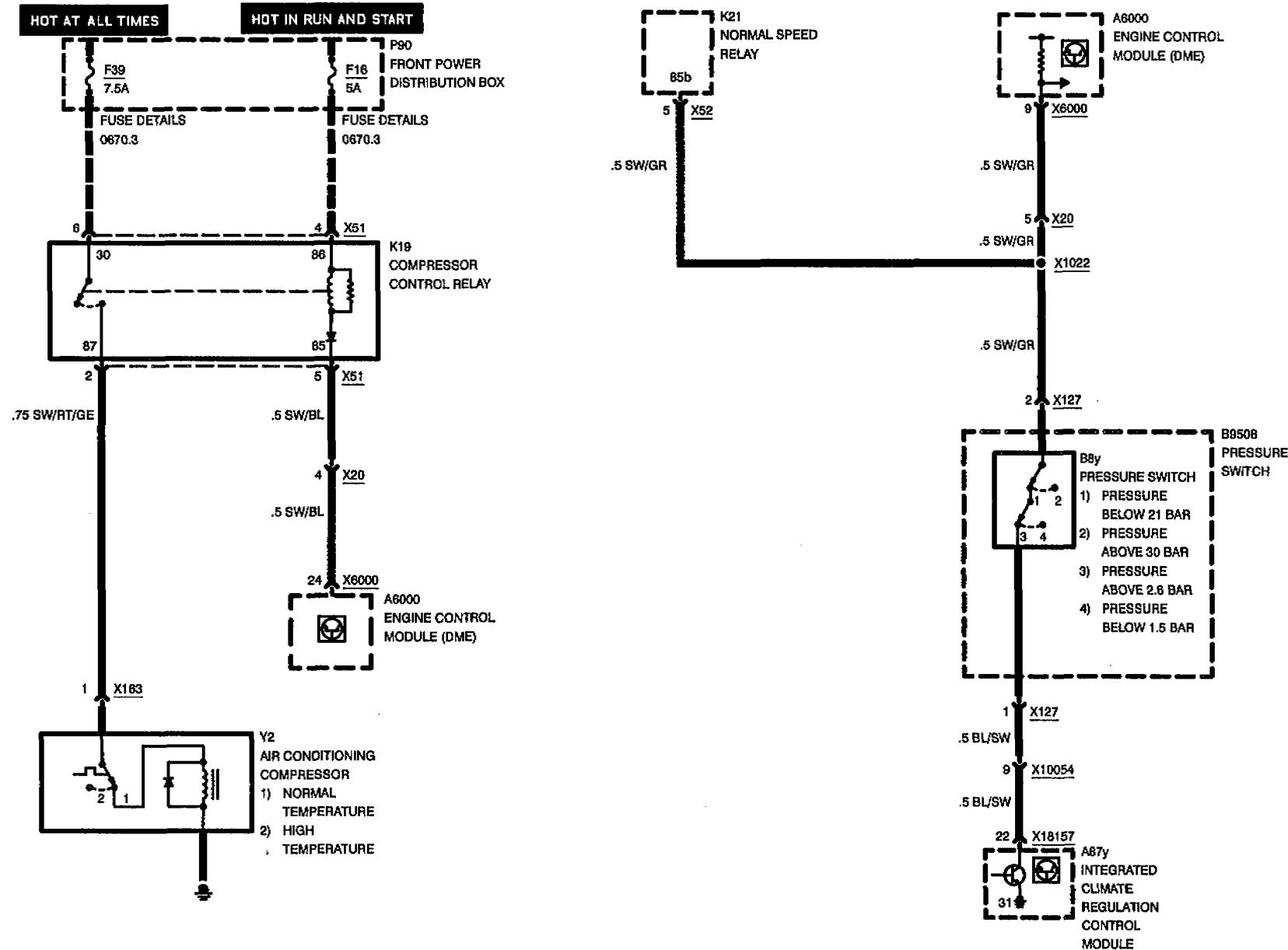
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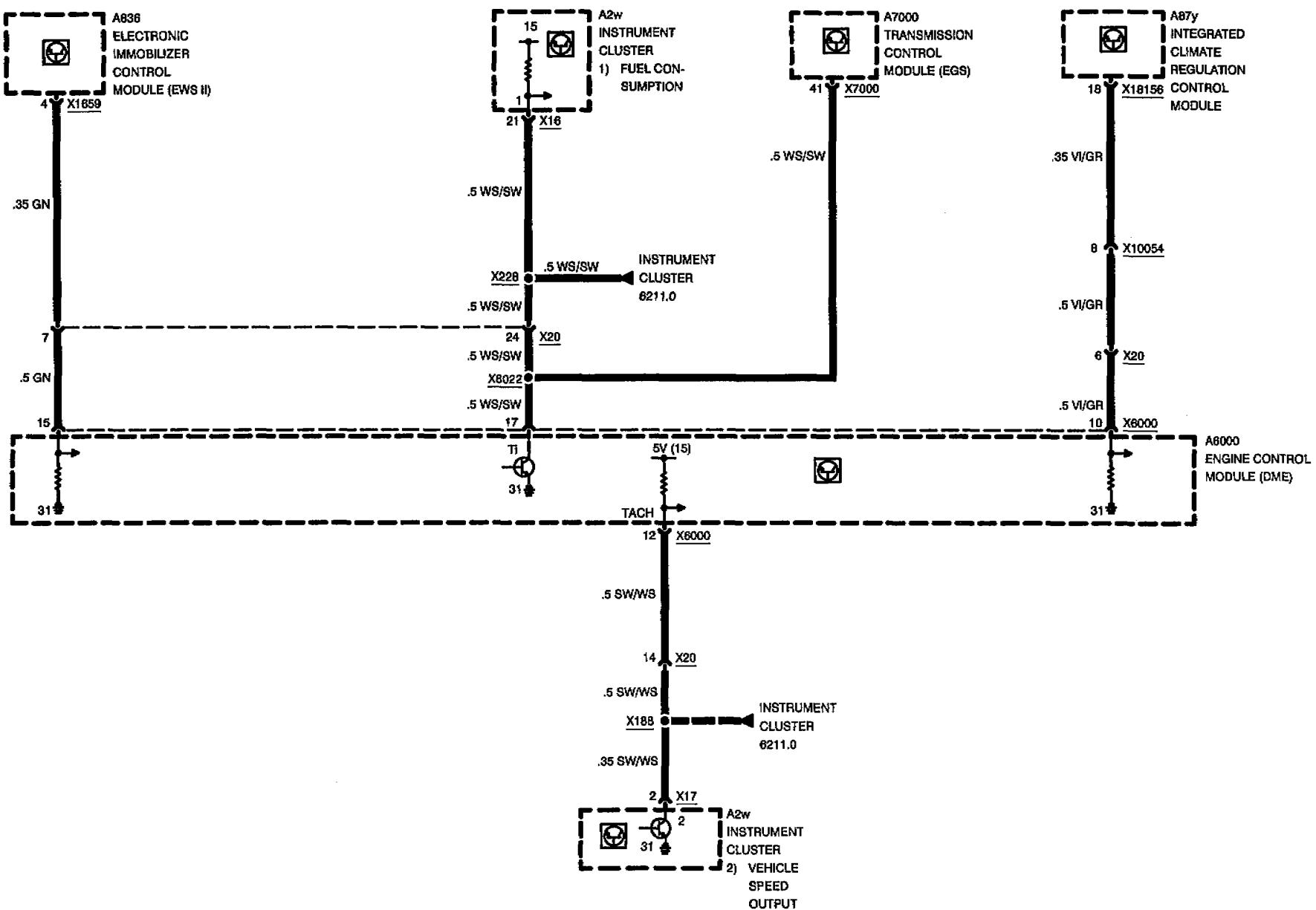






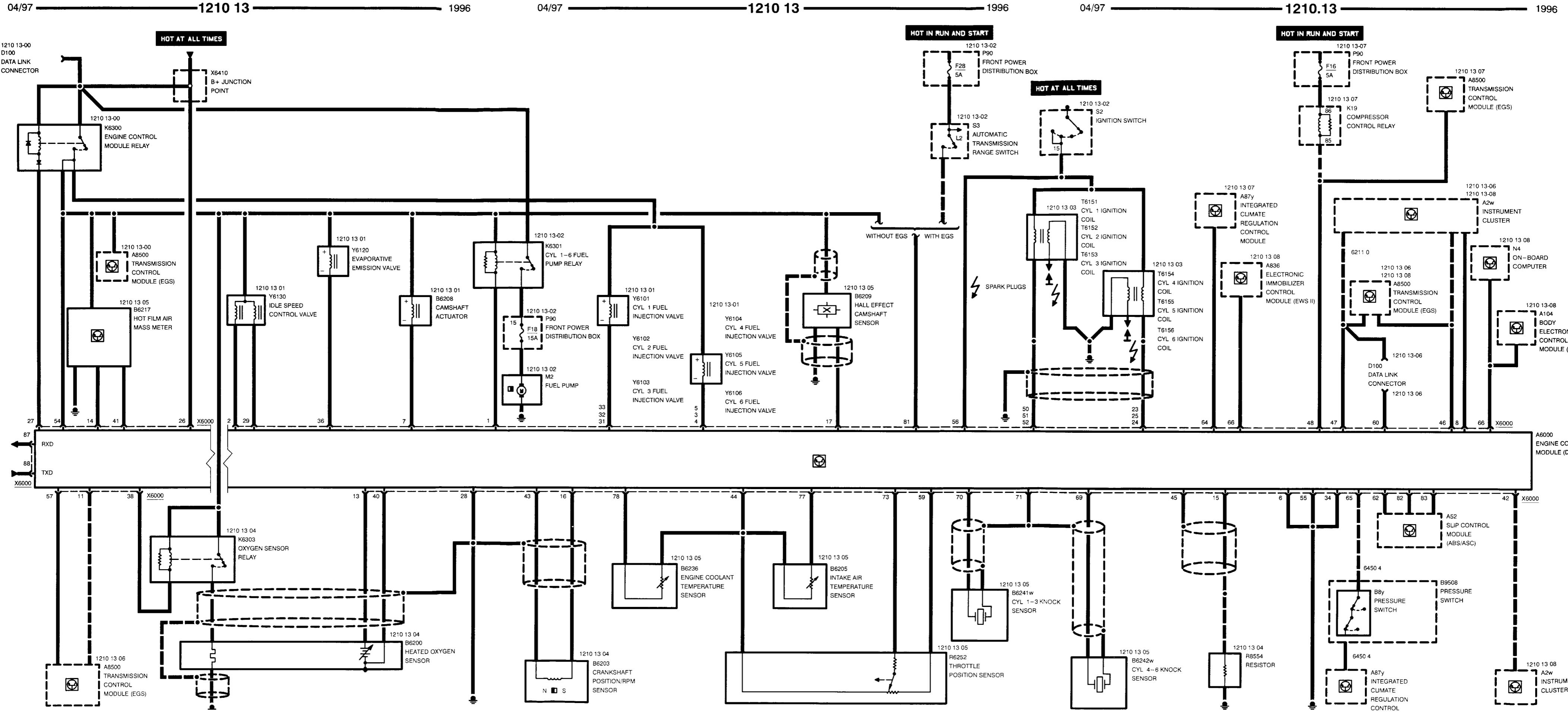
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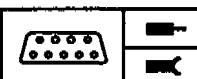
1996



1210.10-10

1996



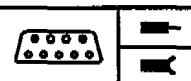


## Pin Assignments

### 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

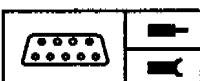
E = Input, A = Output, M = Ground



## 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	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

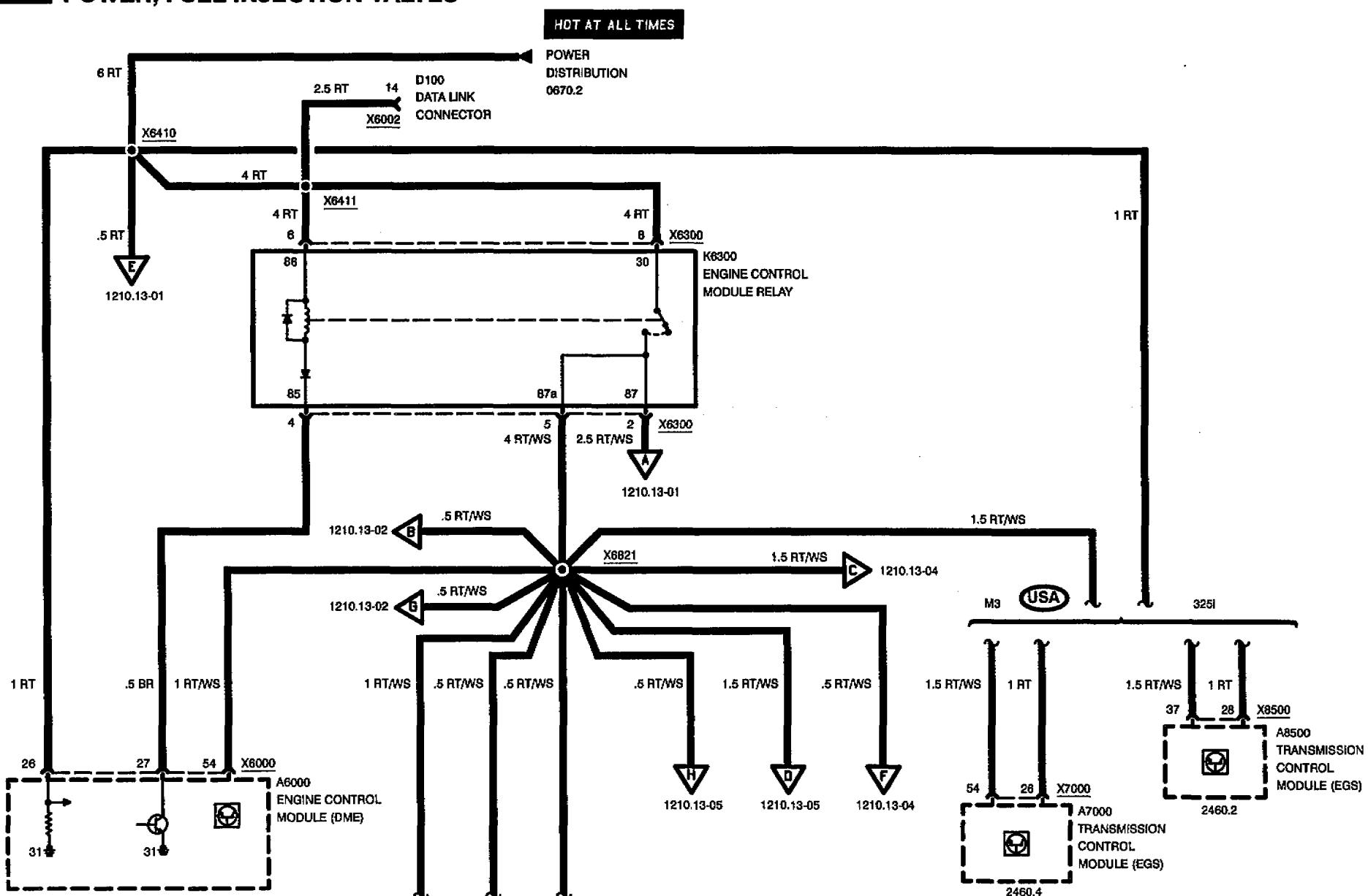
E = Input, A = Output, M = Ground

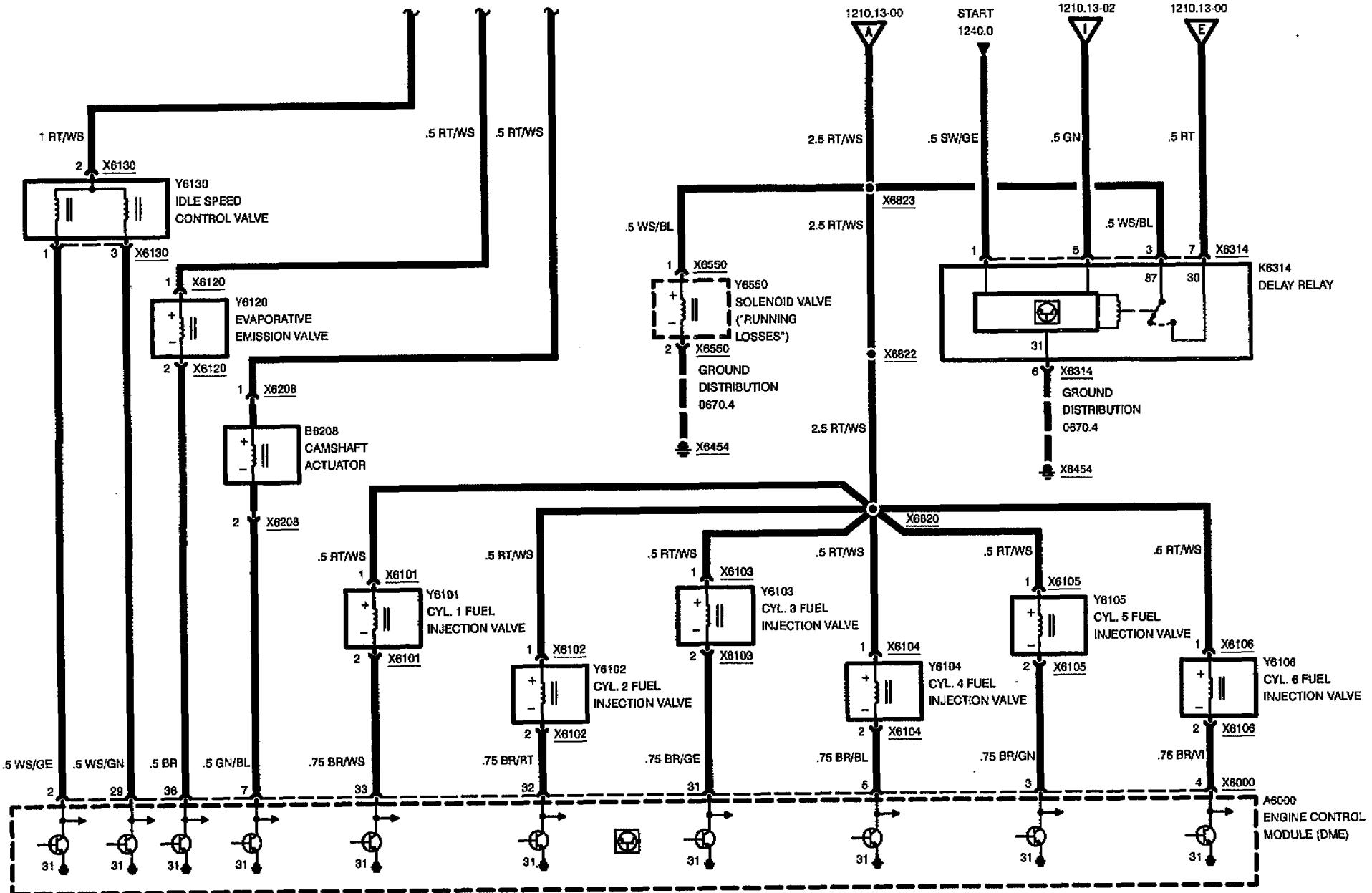


## Pin Assignments

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

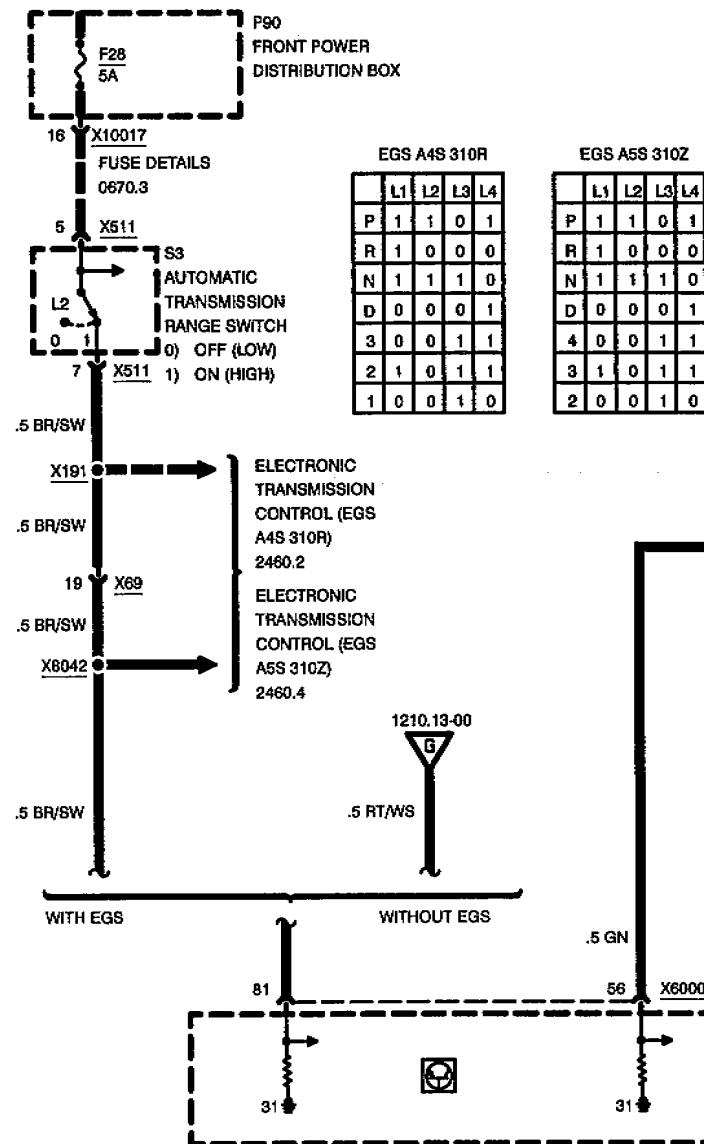




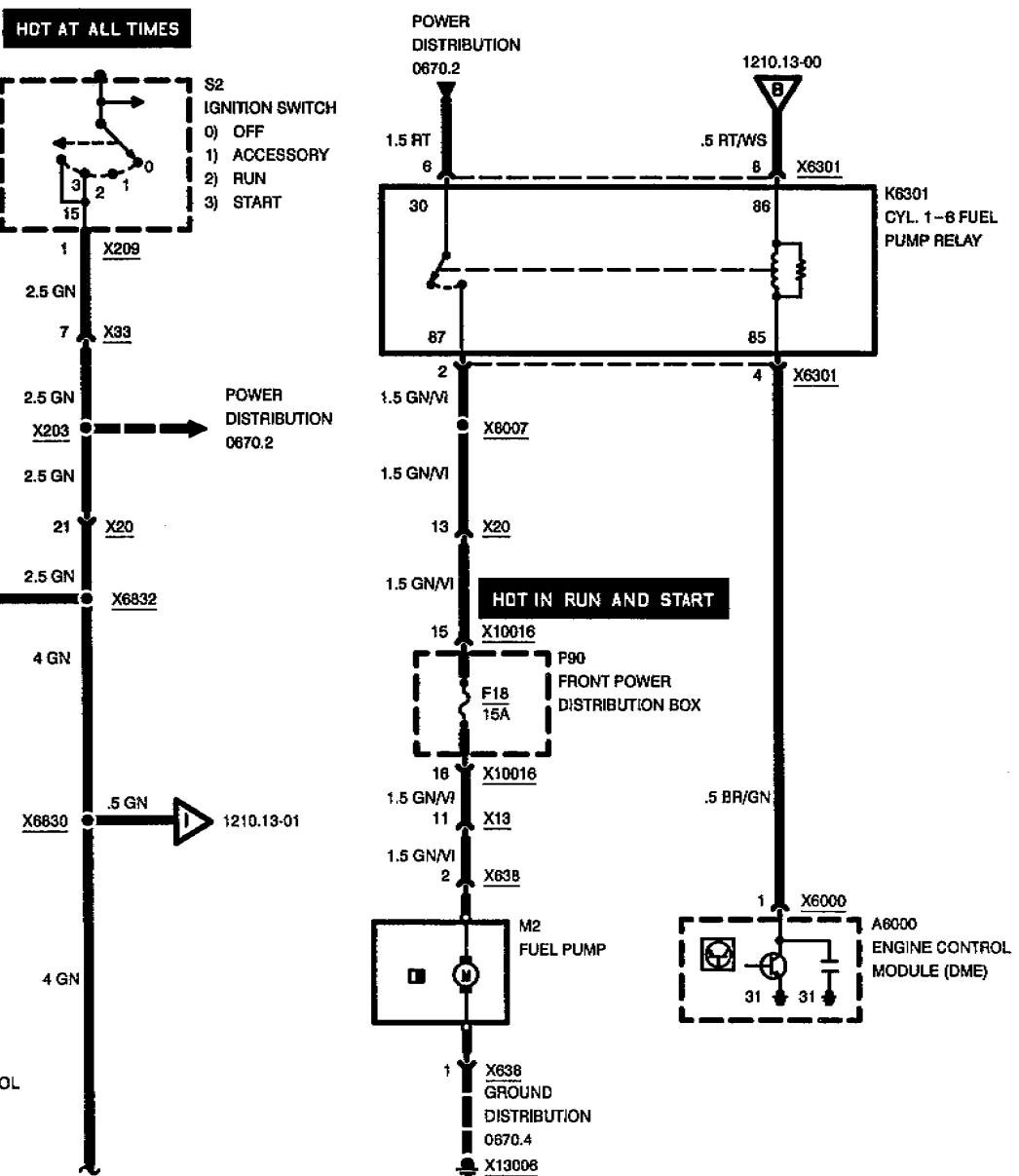
# ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

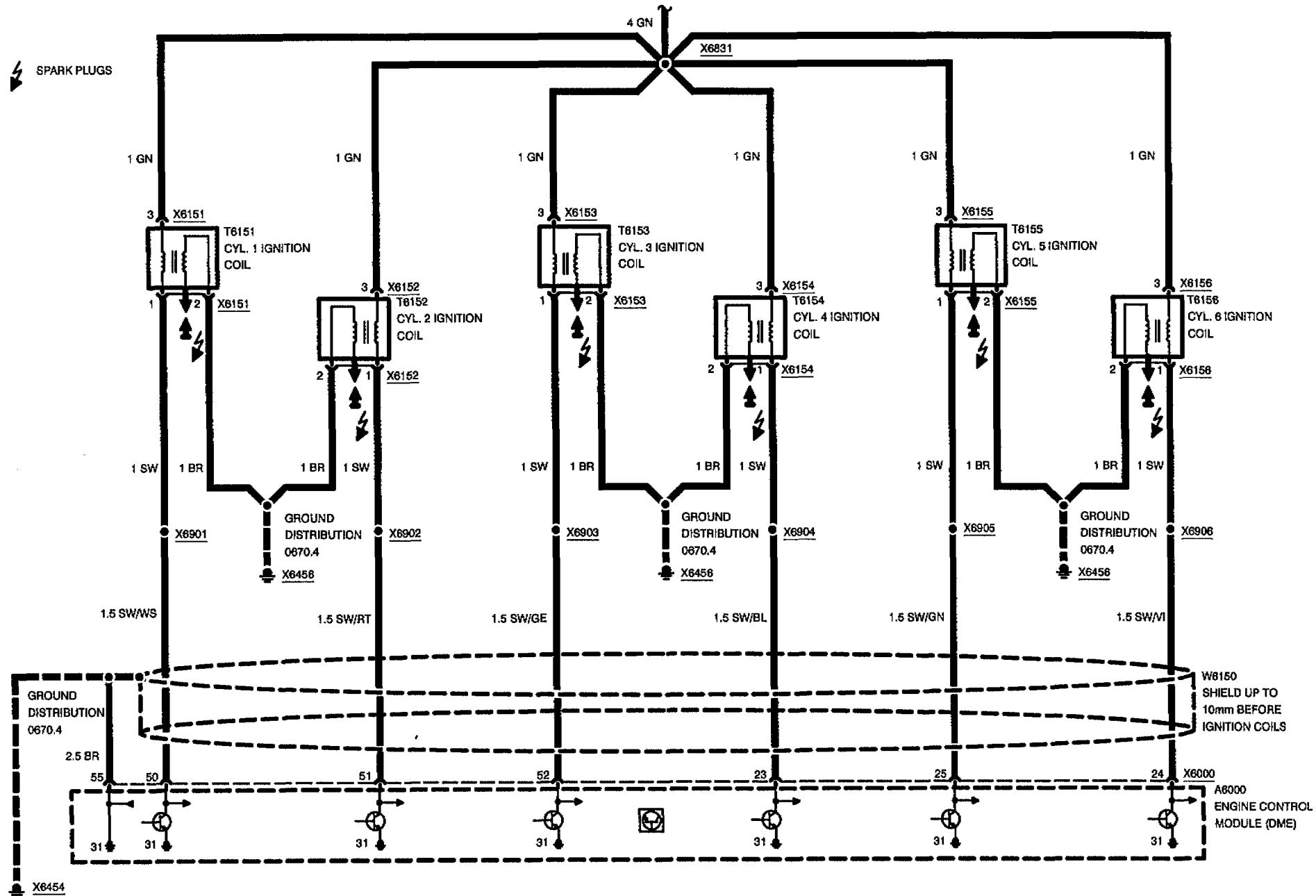
## FUEL PUMP, IGNITION COILS

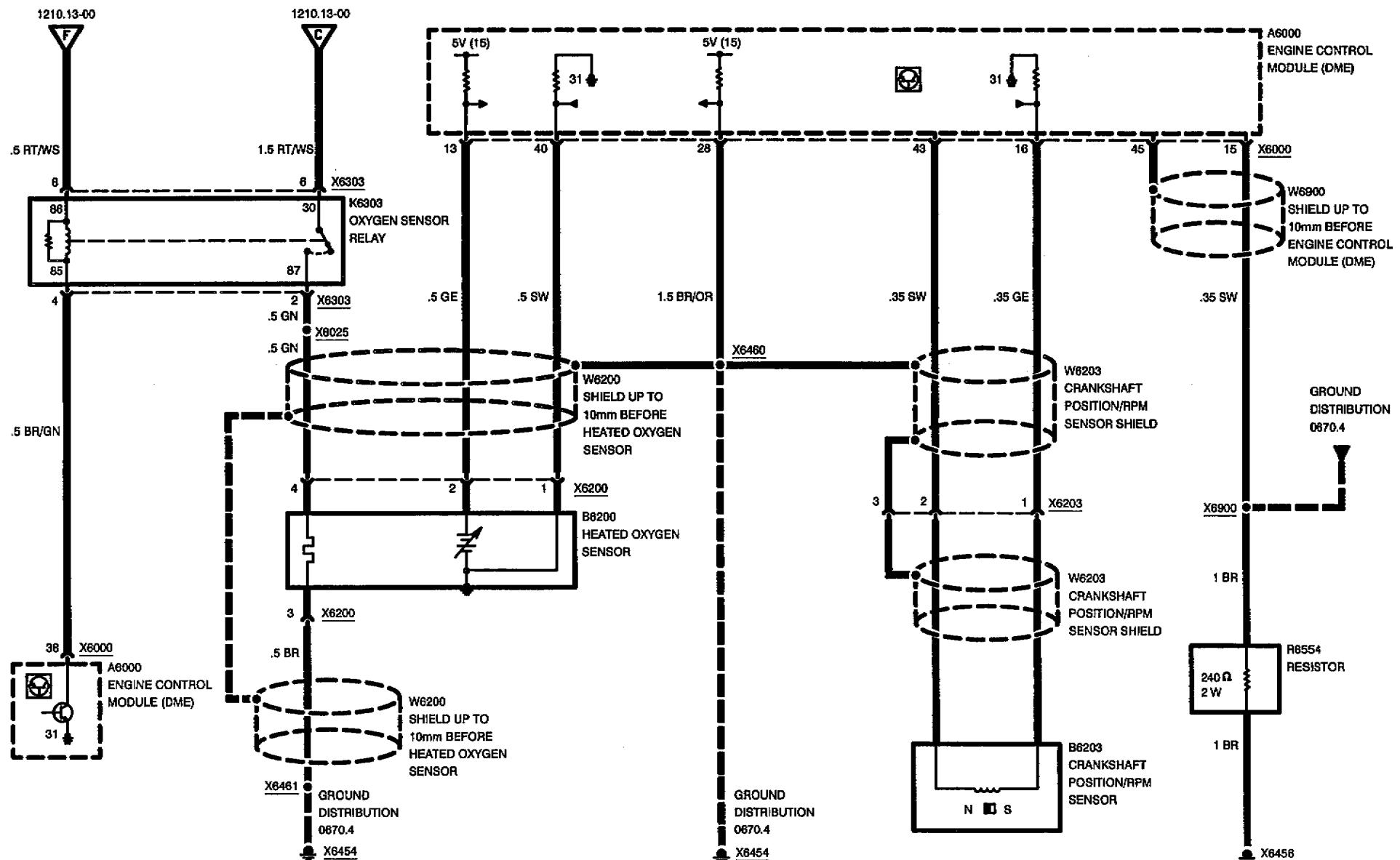
## HOT IN RUN AND START



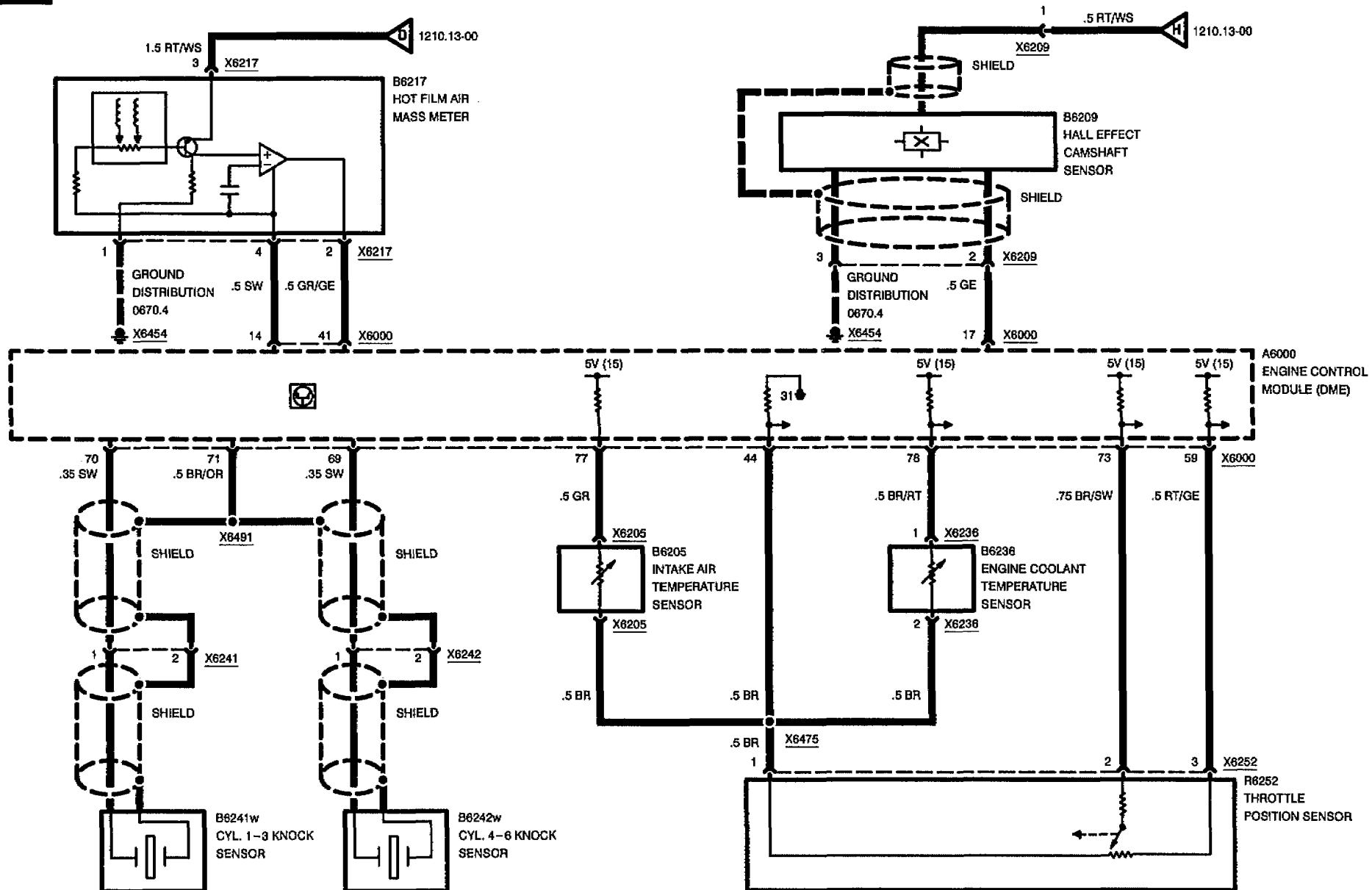
## HOT AT ALL TIMES







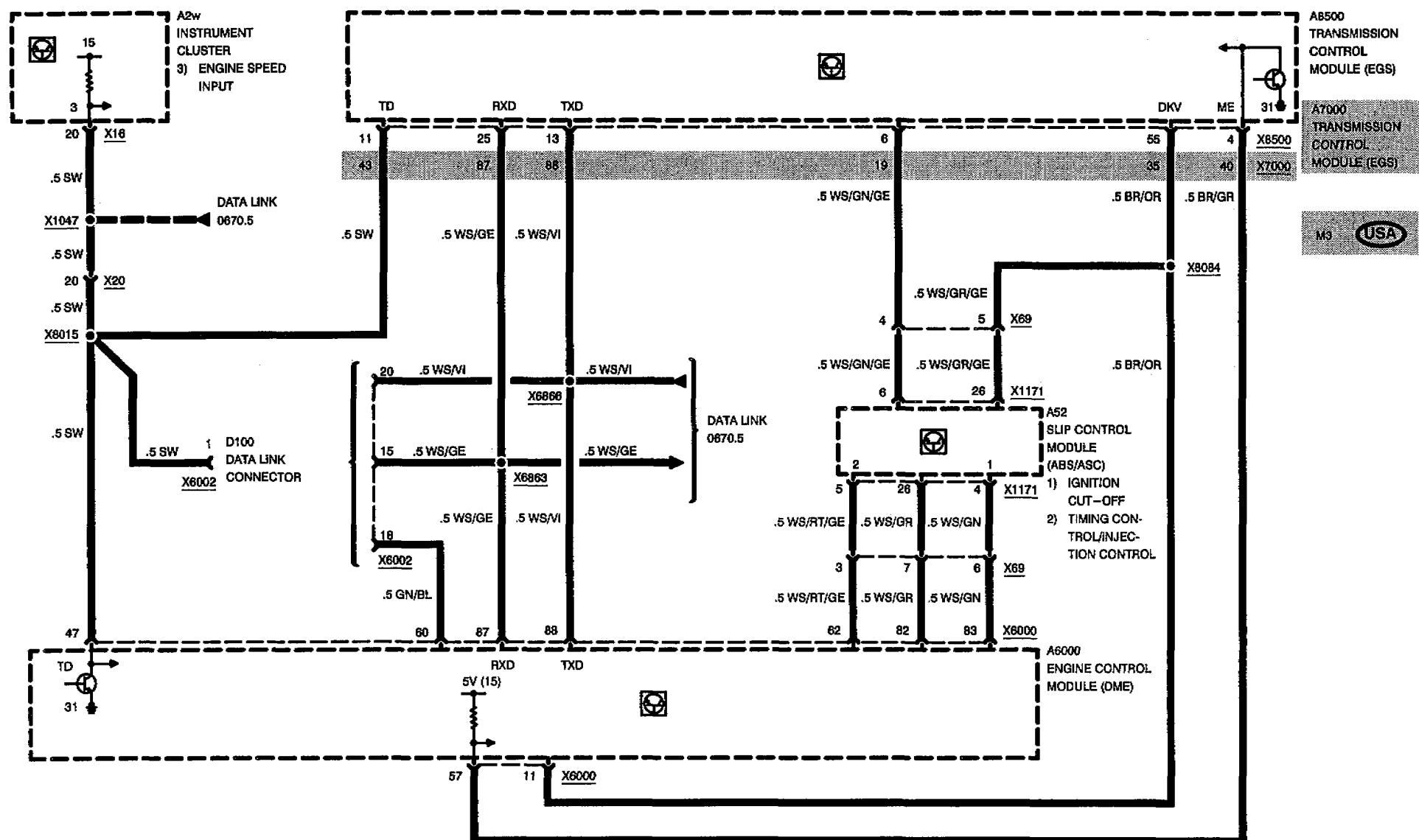
## ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



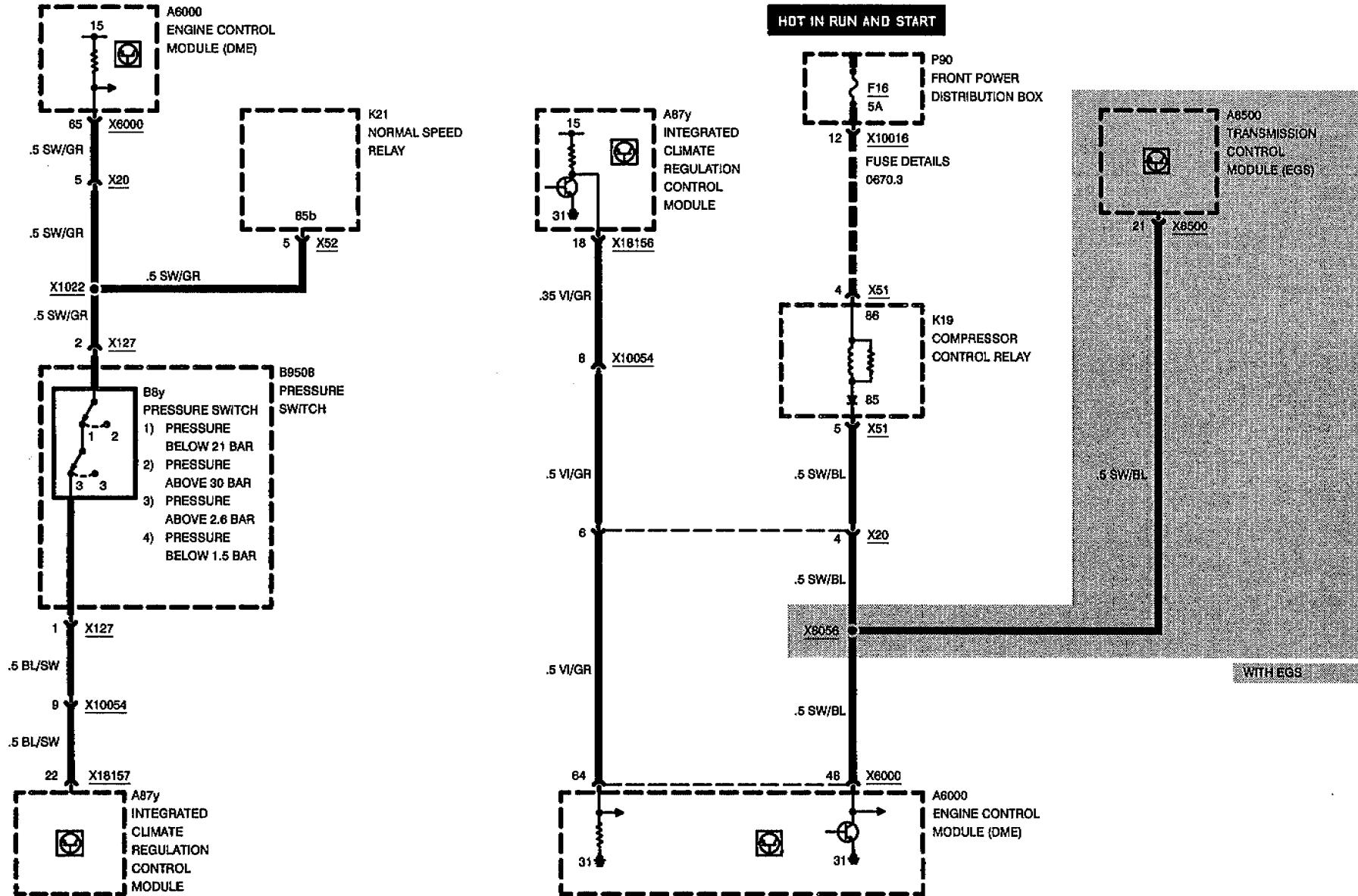


# ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

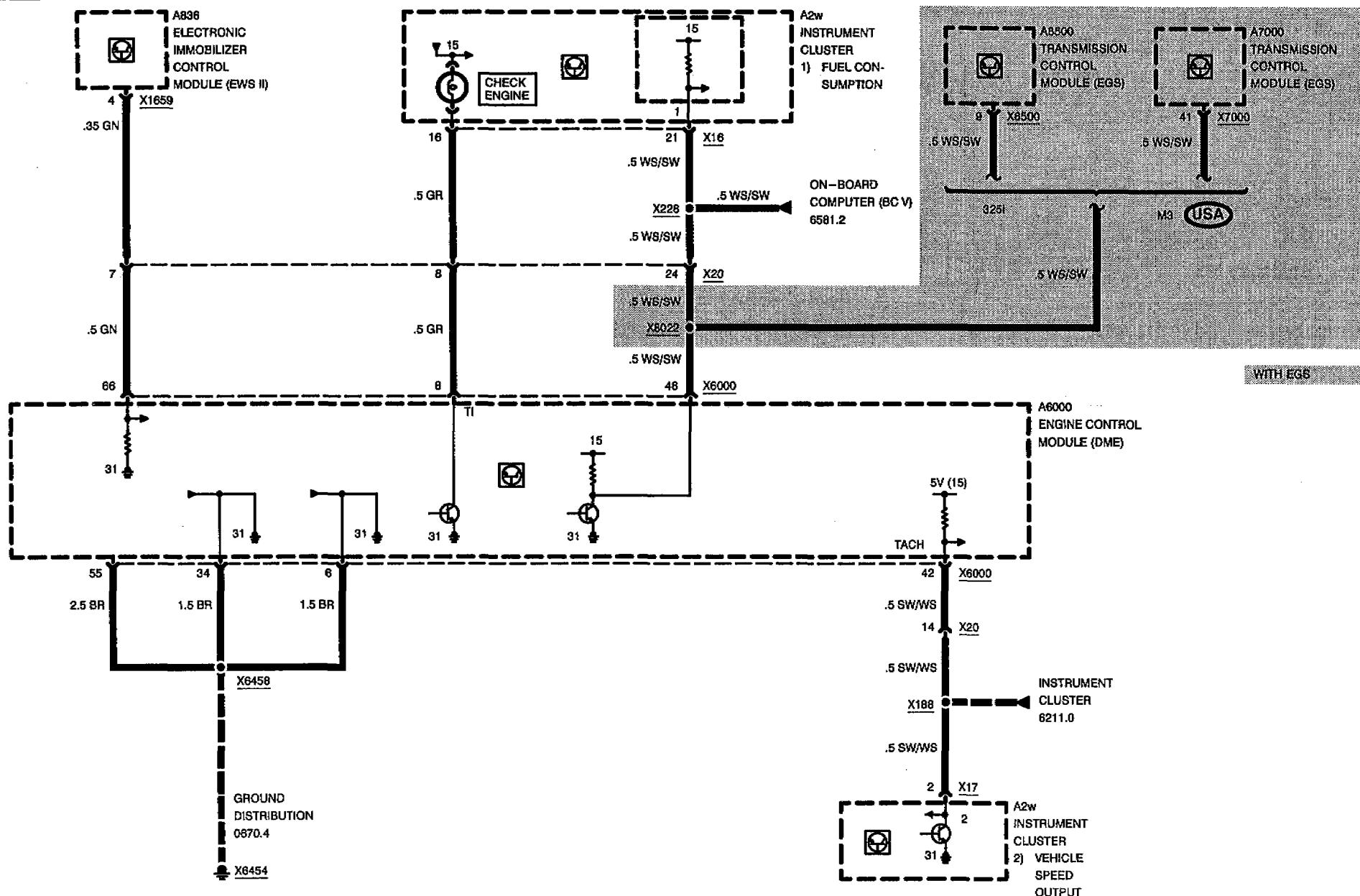
## DATA LINK



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



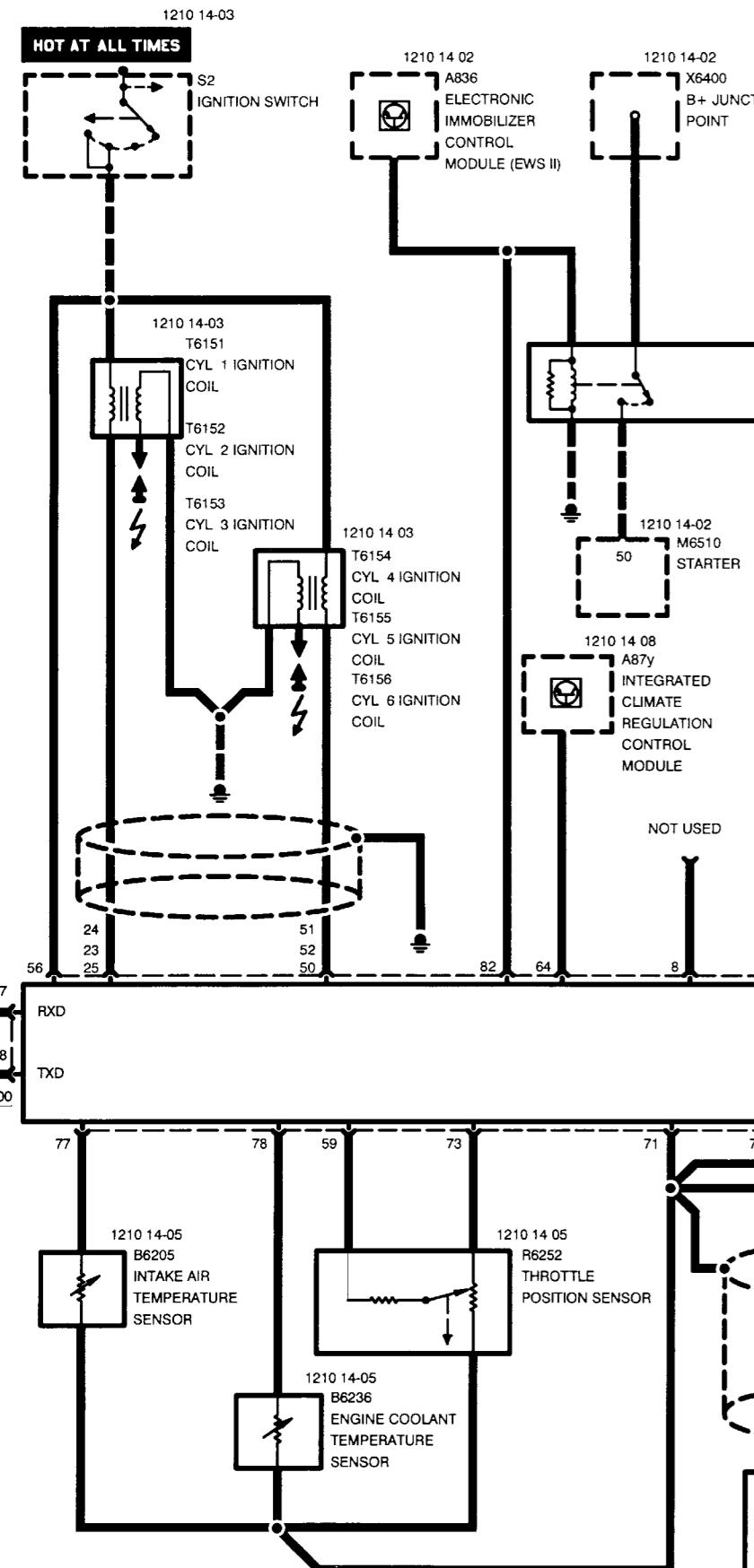
## ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



04/97

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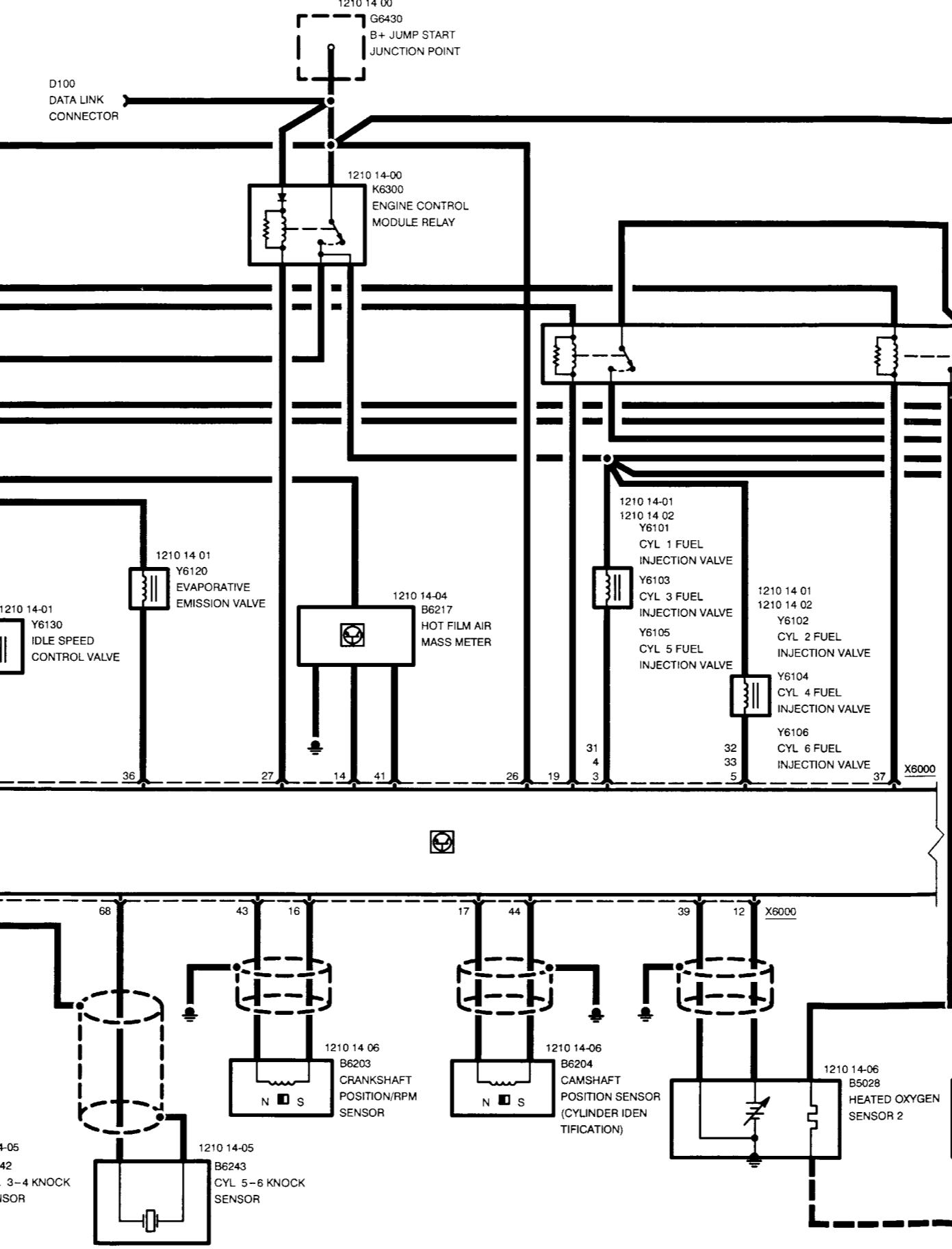
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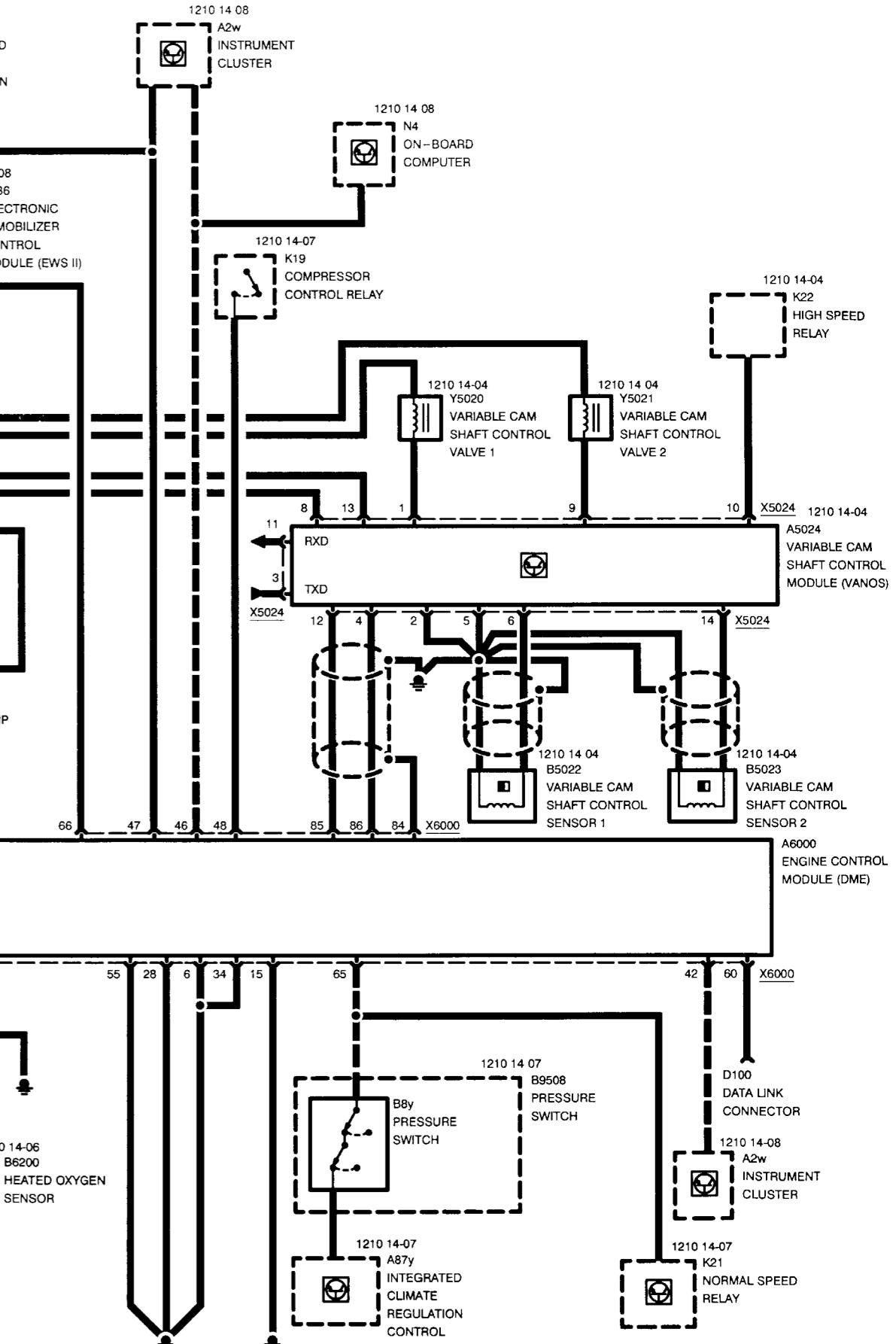
1996

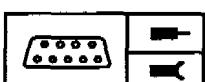


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## Pin Assignments

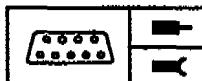
### X5024

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	

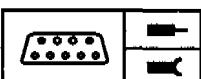
E = Input, A = Output, M = Ground



## 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

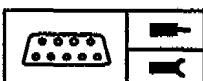
E = Input, A = Output, M = Ground



## 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



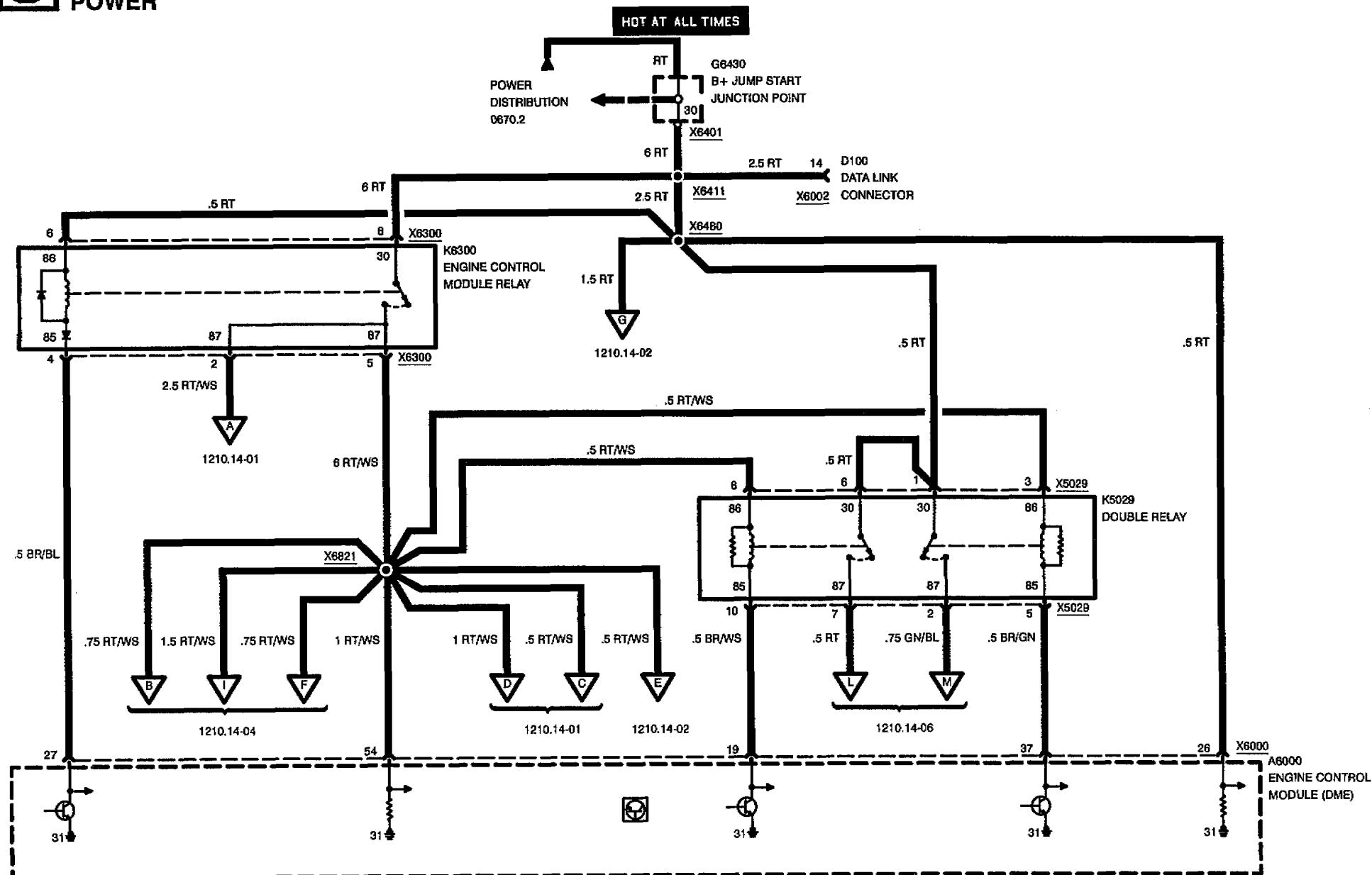
## Pin Assignments

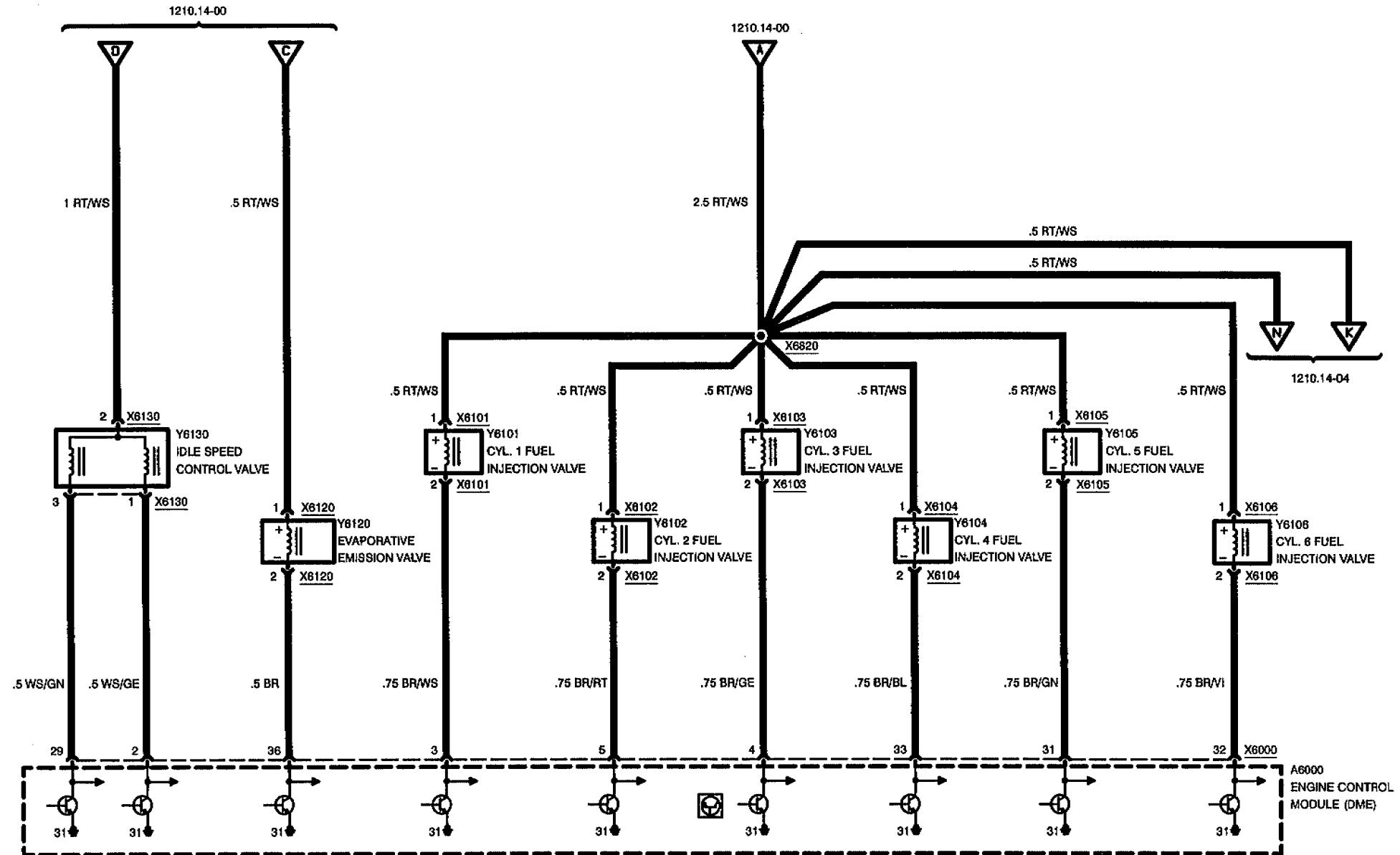
Pin	Type	Description/Function	Connection
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81		Not used	
82	E	Start revolution signal	Ignition switch
83		Not 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



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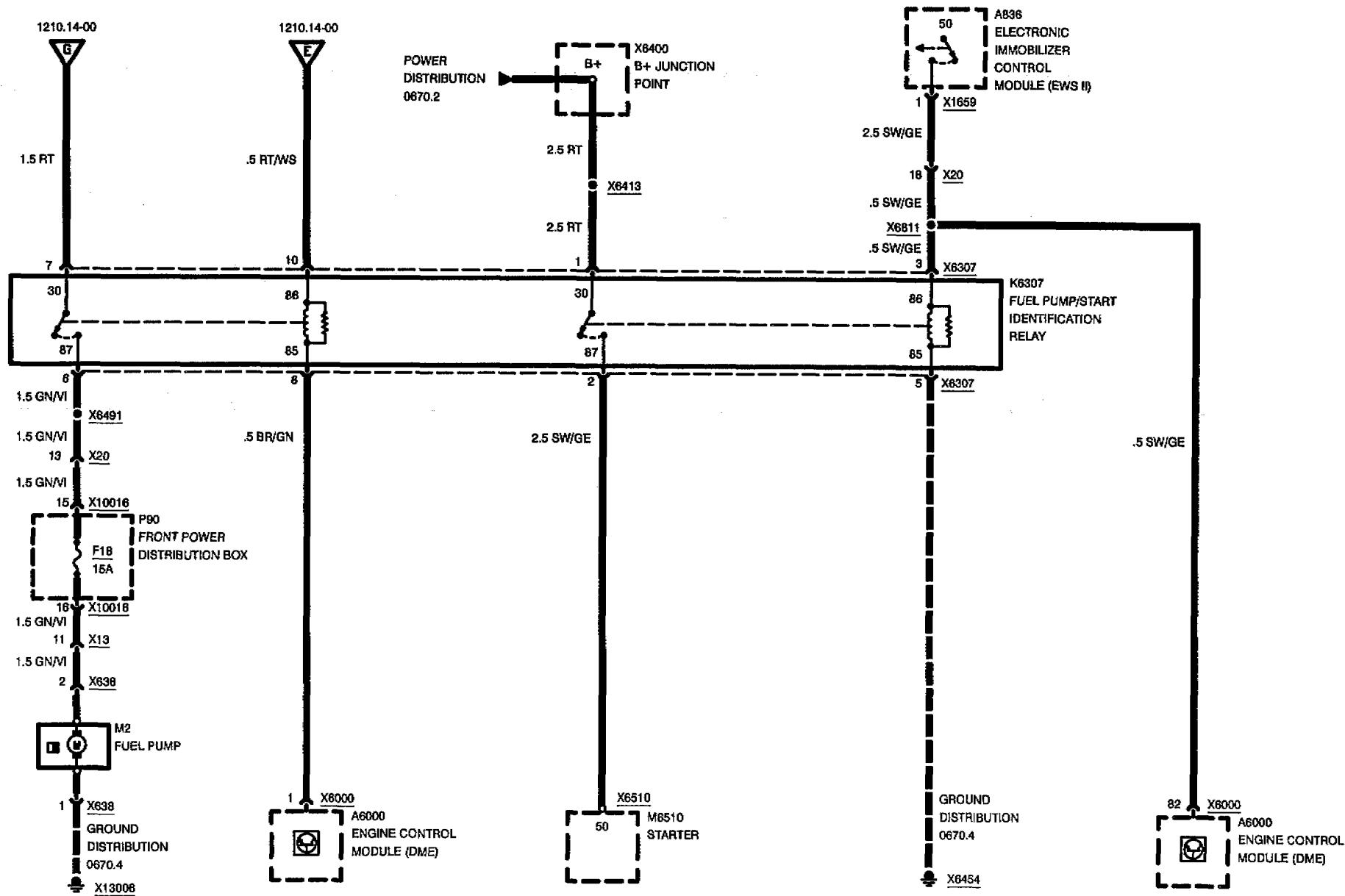


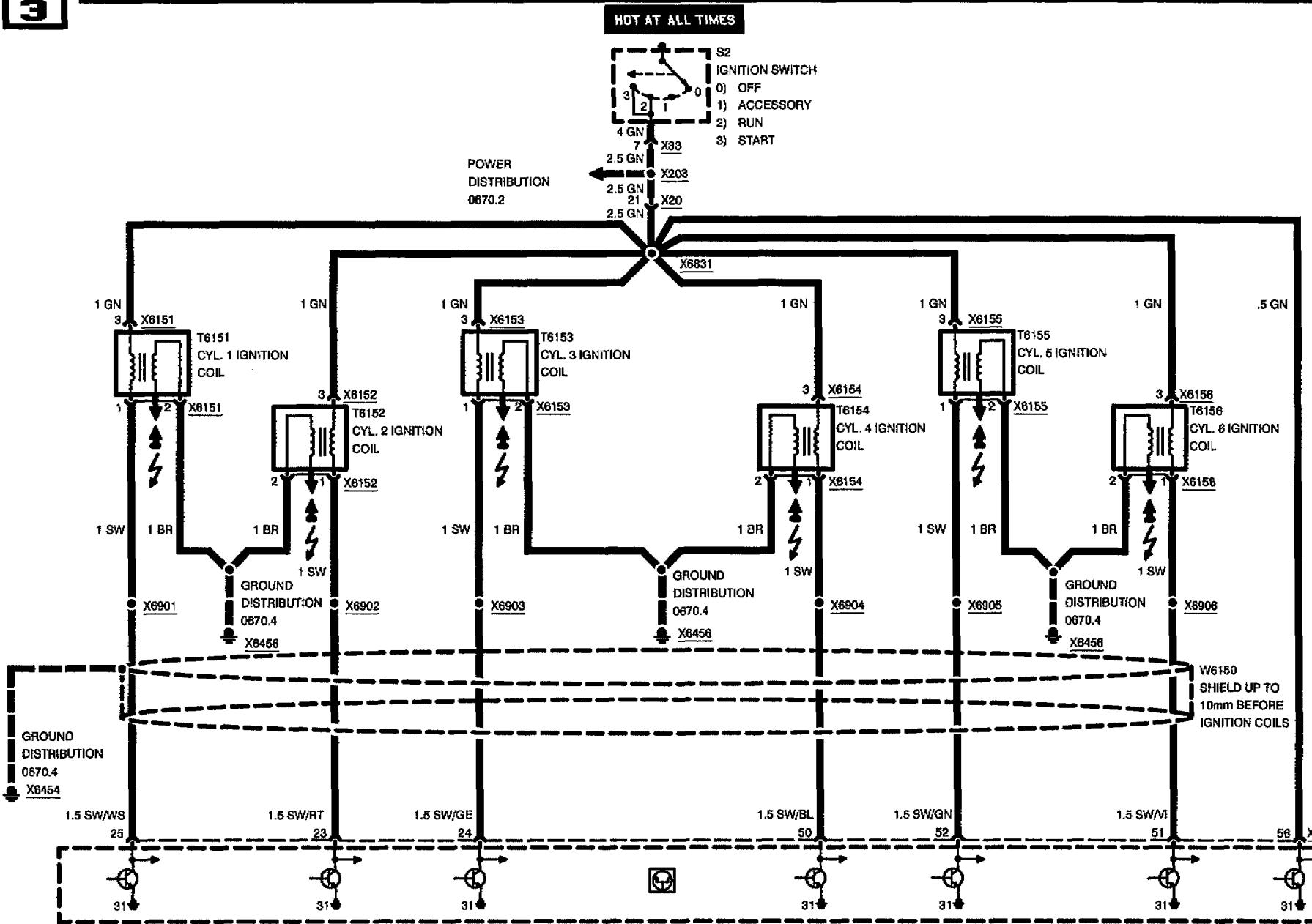


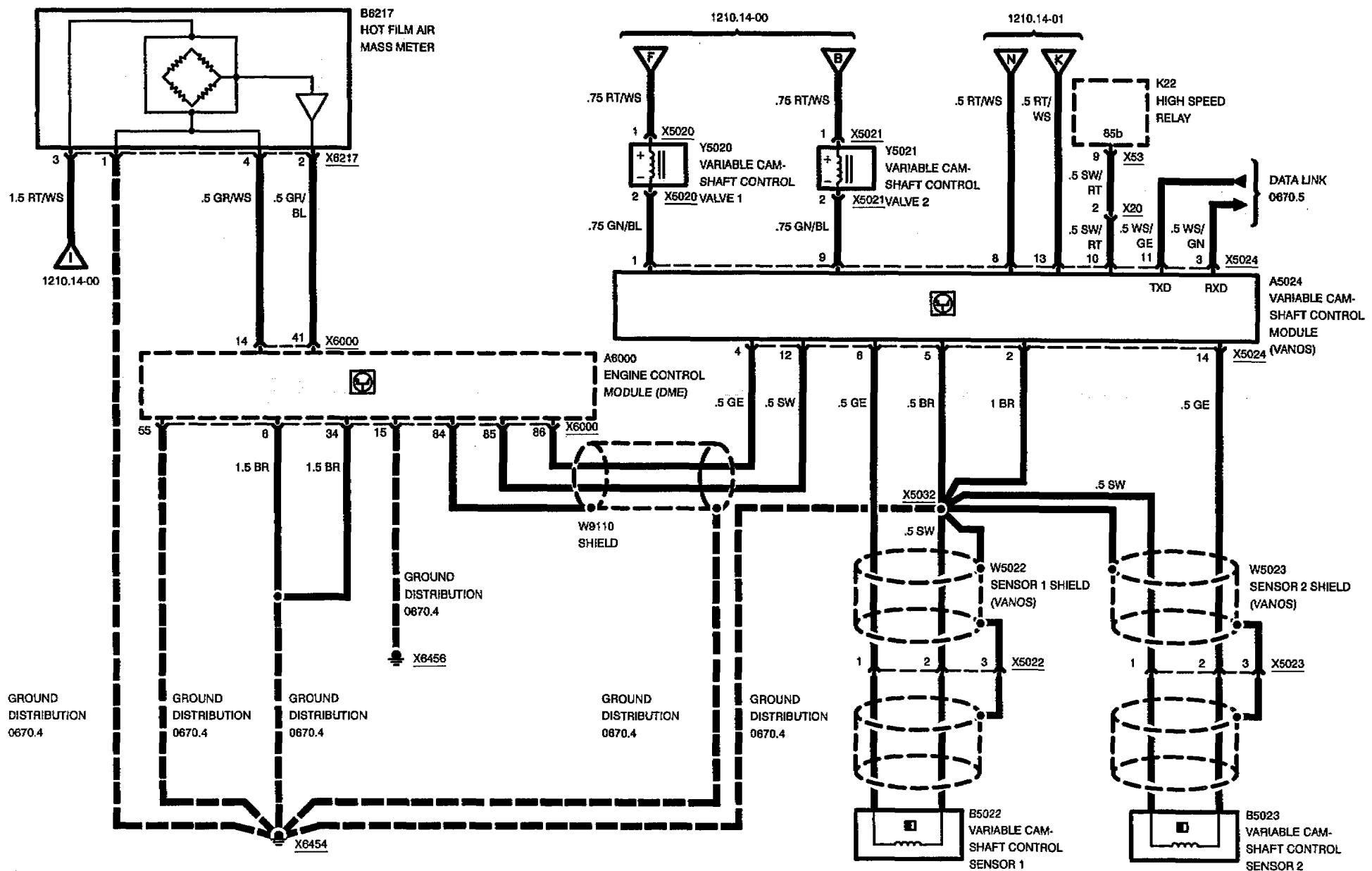
# ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

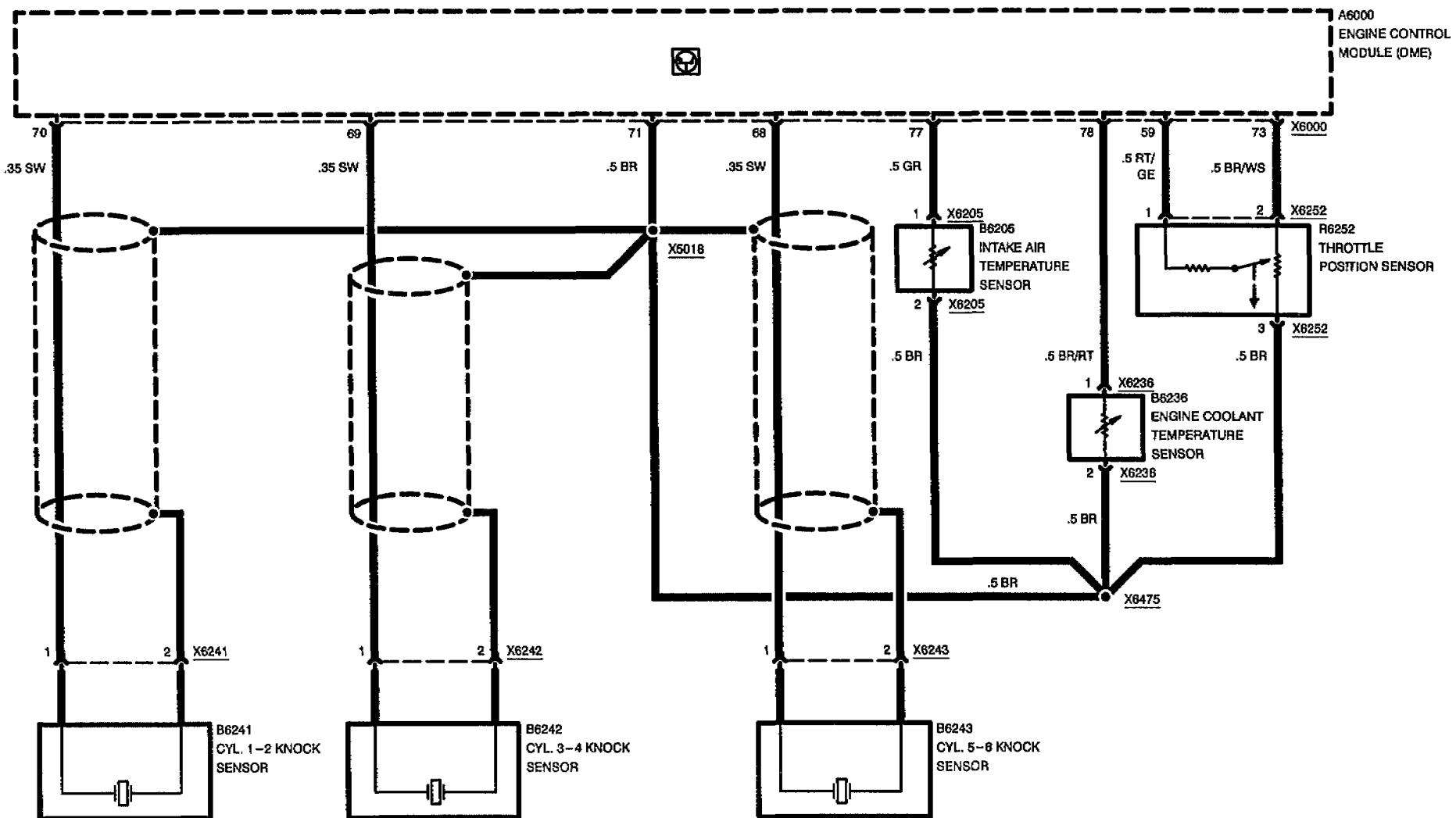


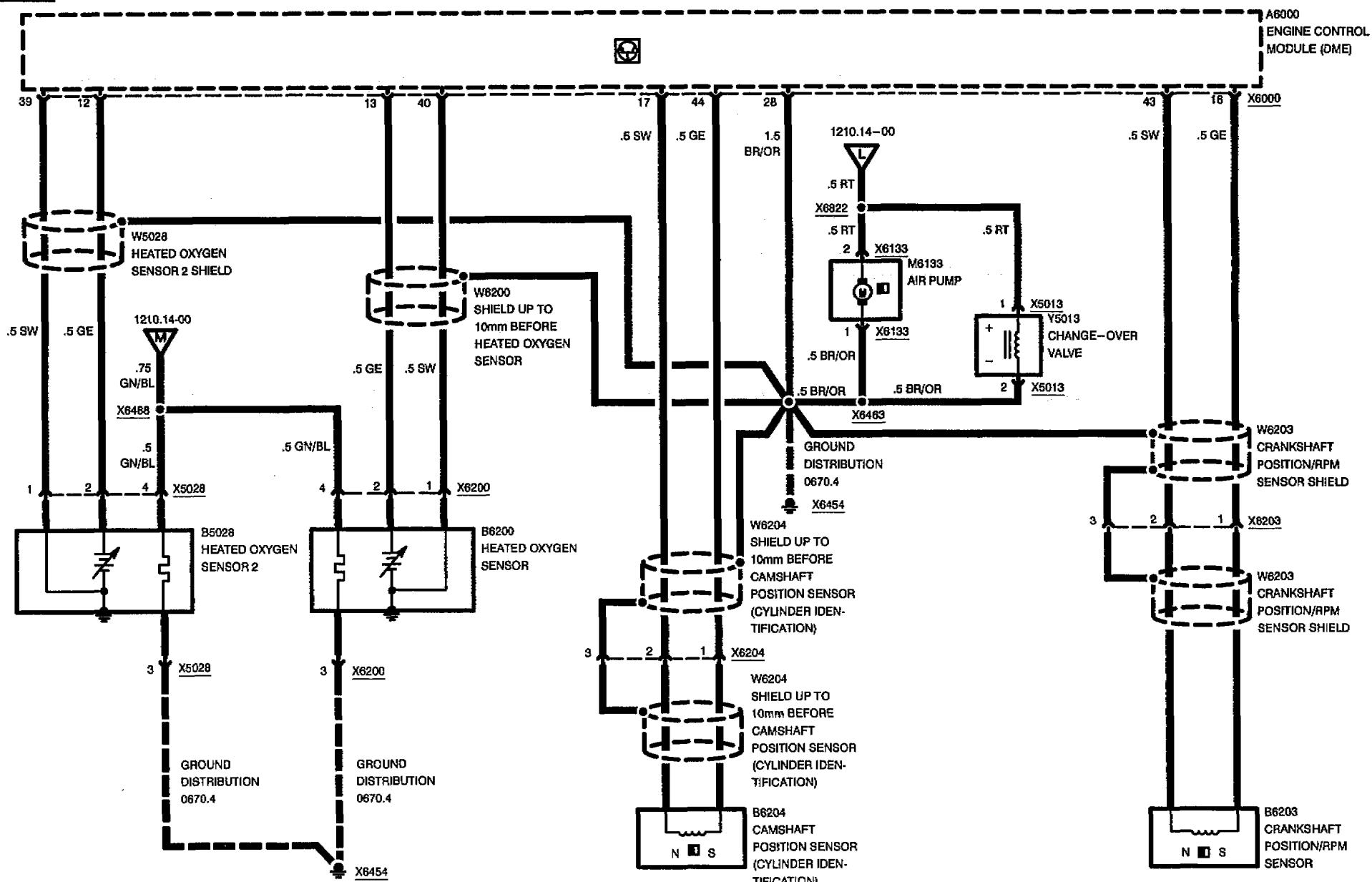
## POWER





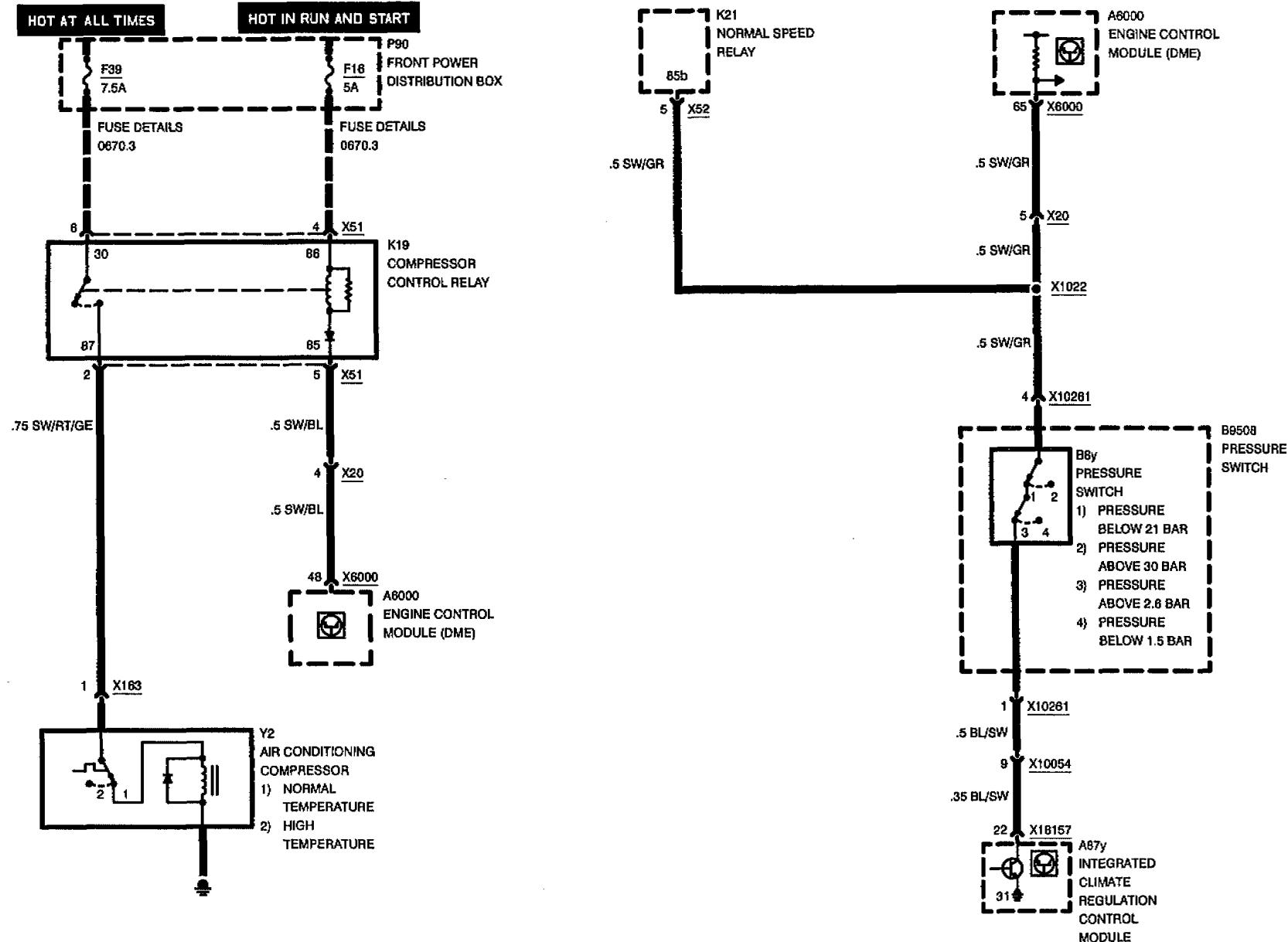








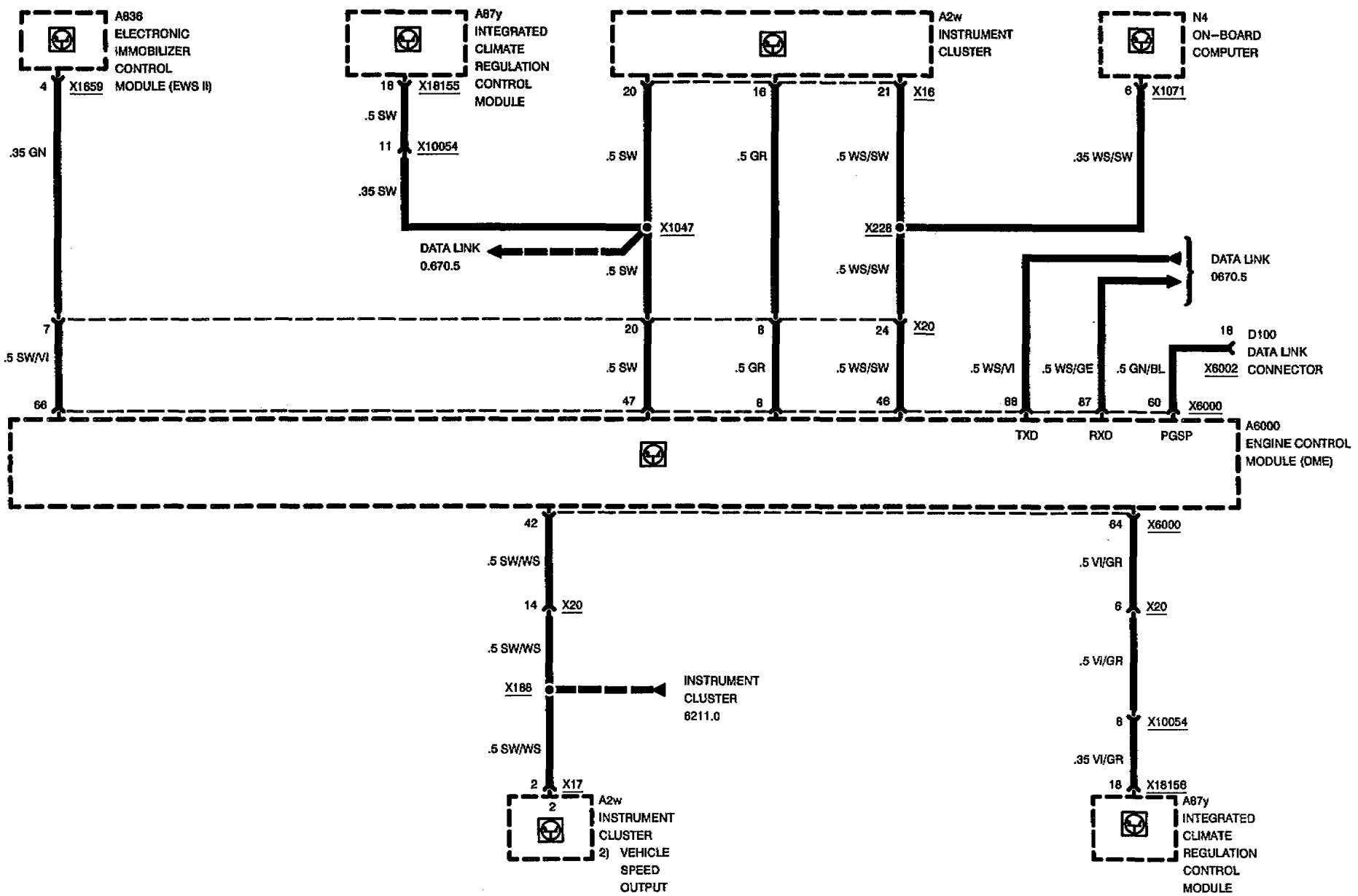
## ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)



04/97

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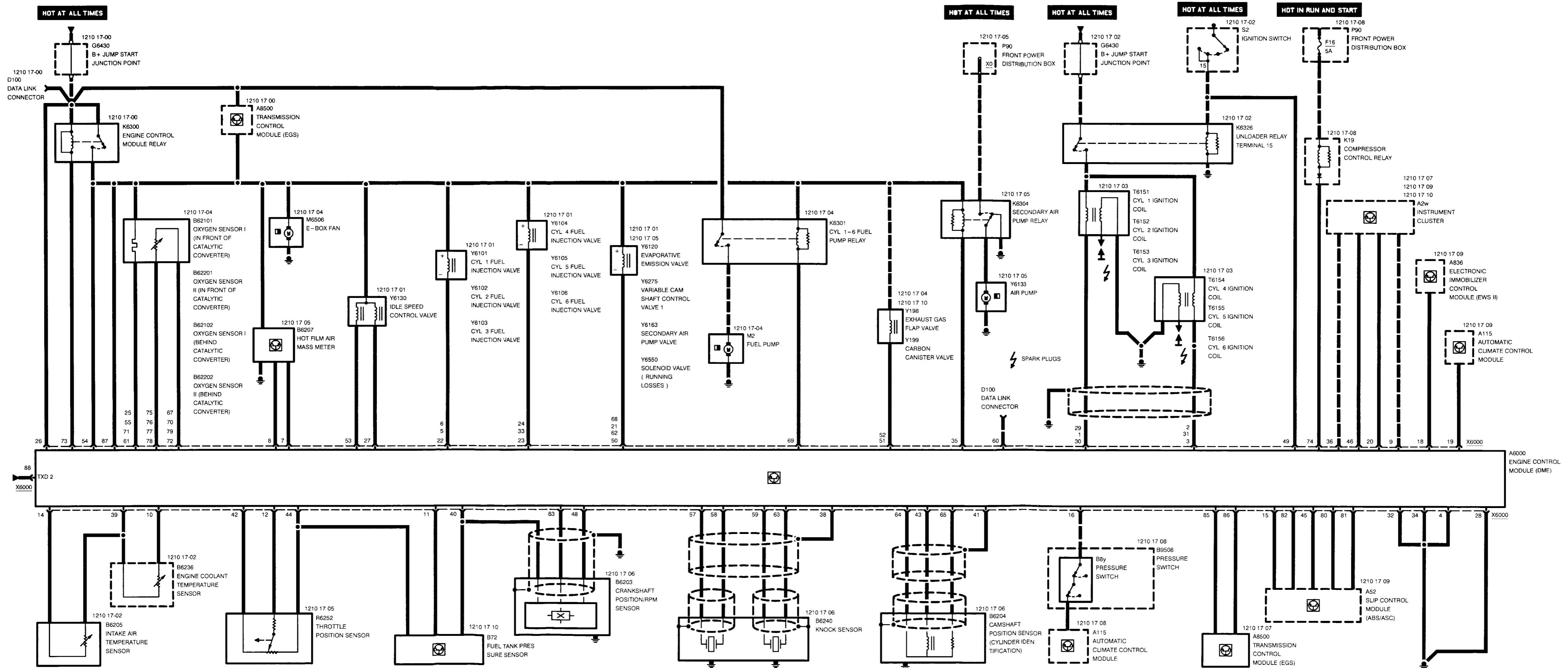
1996

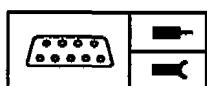


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04/97 — 1210 17 — 1996



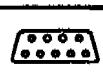


## Pin Assignments

### 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

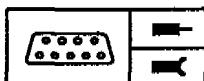
E = Input, A = Output, M = Ground



## 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 control 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

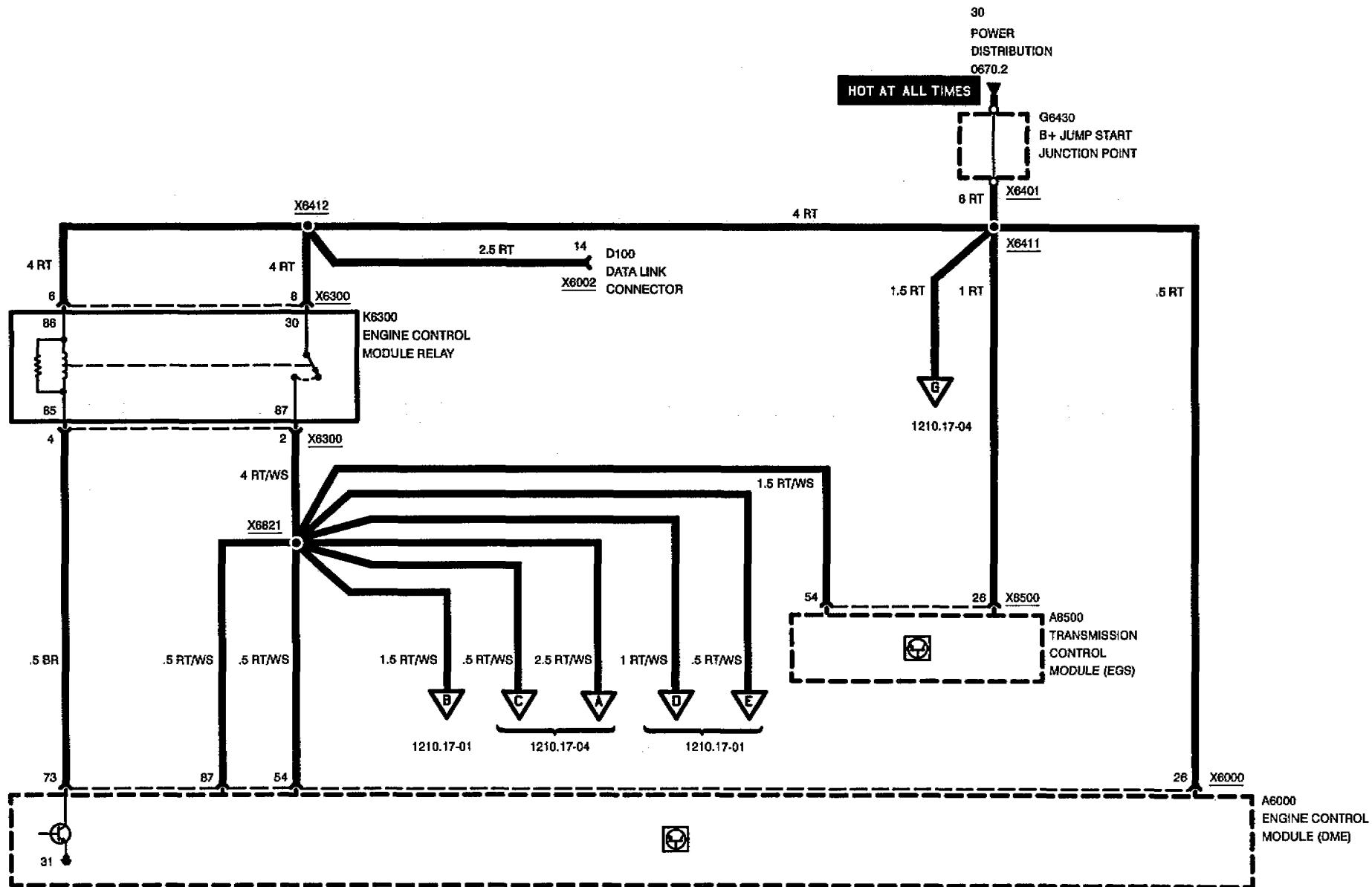
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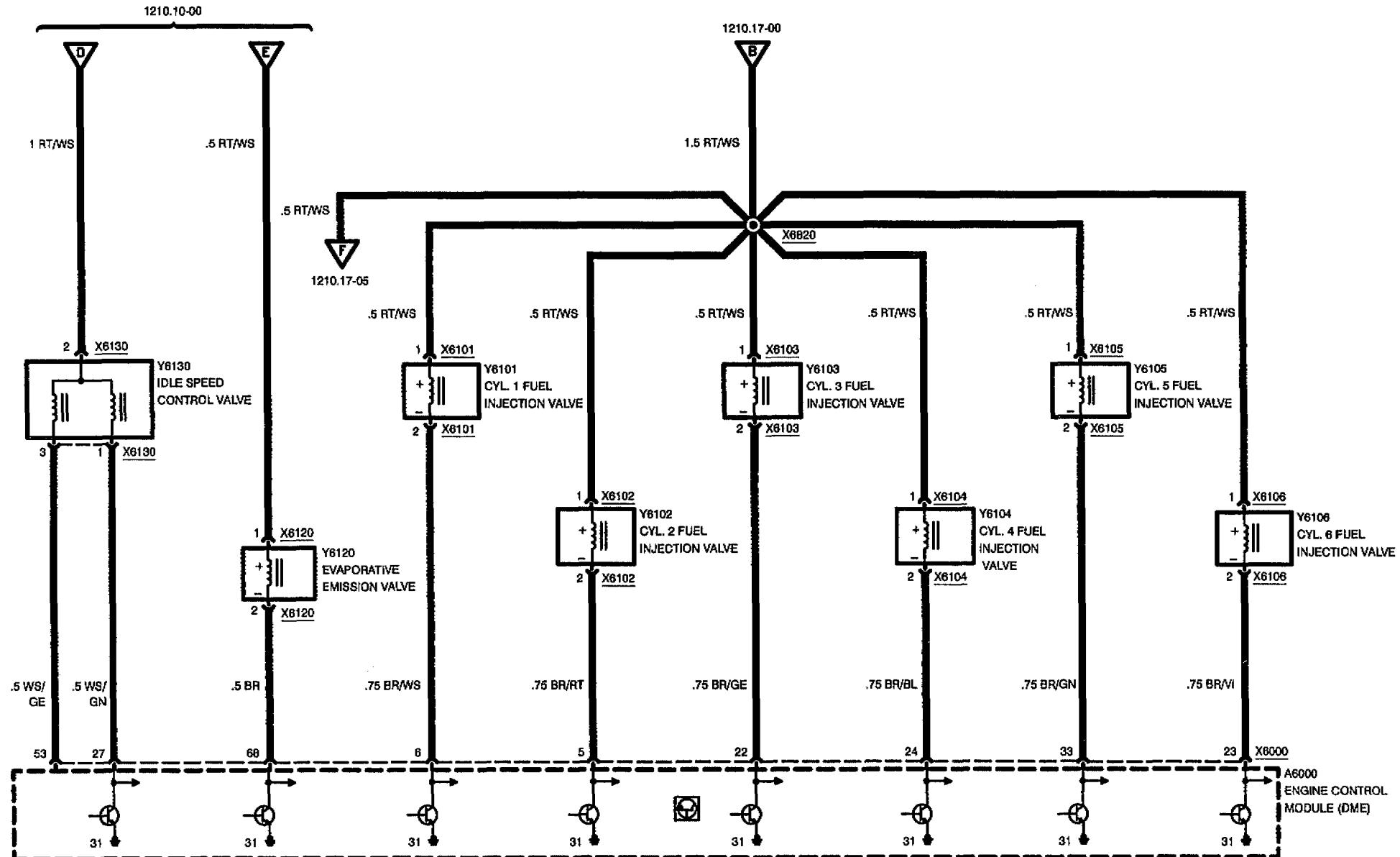


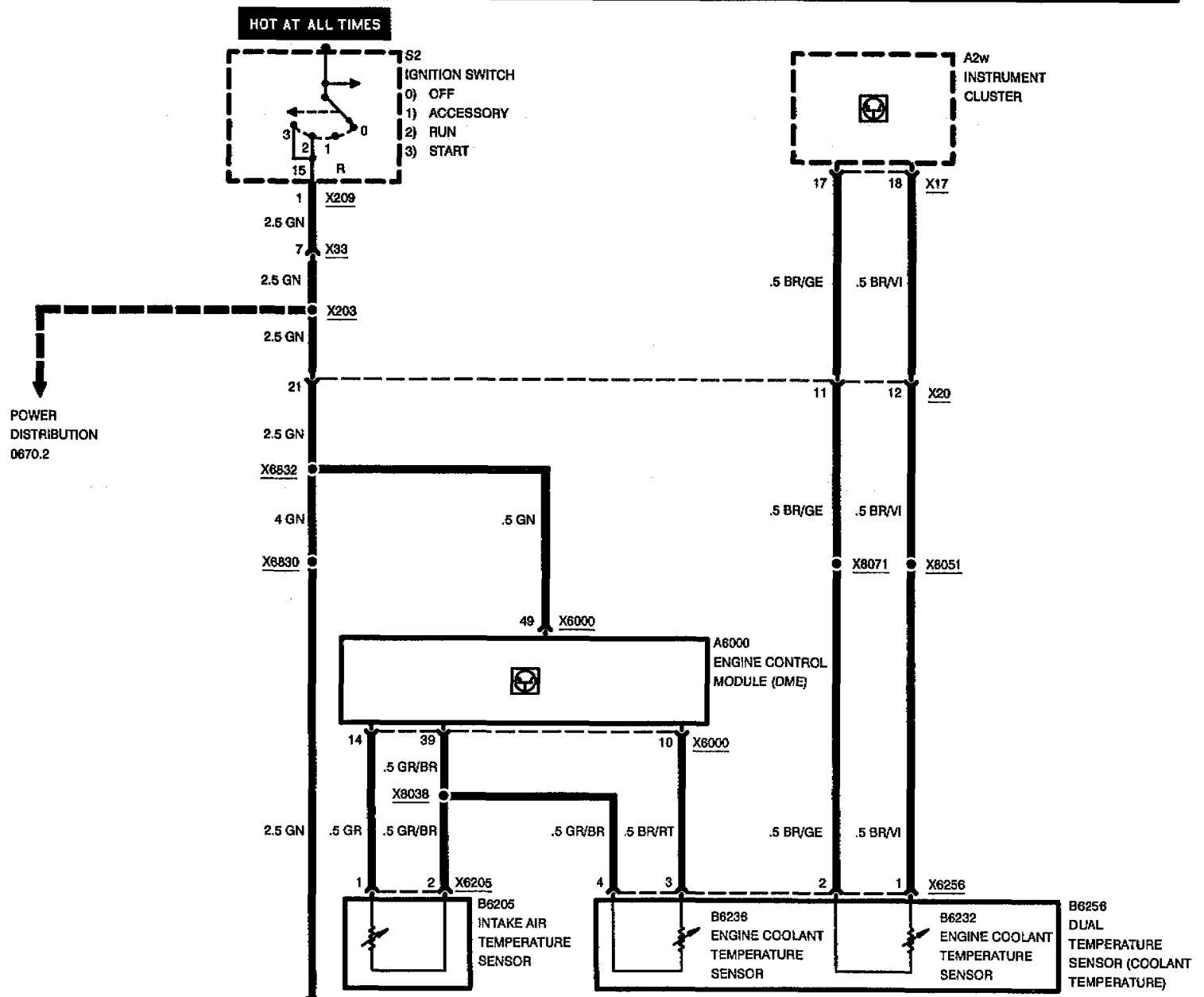
## Pin Assignments

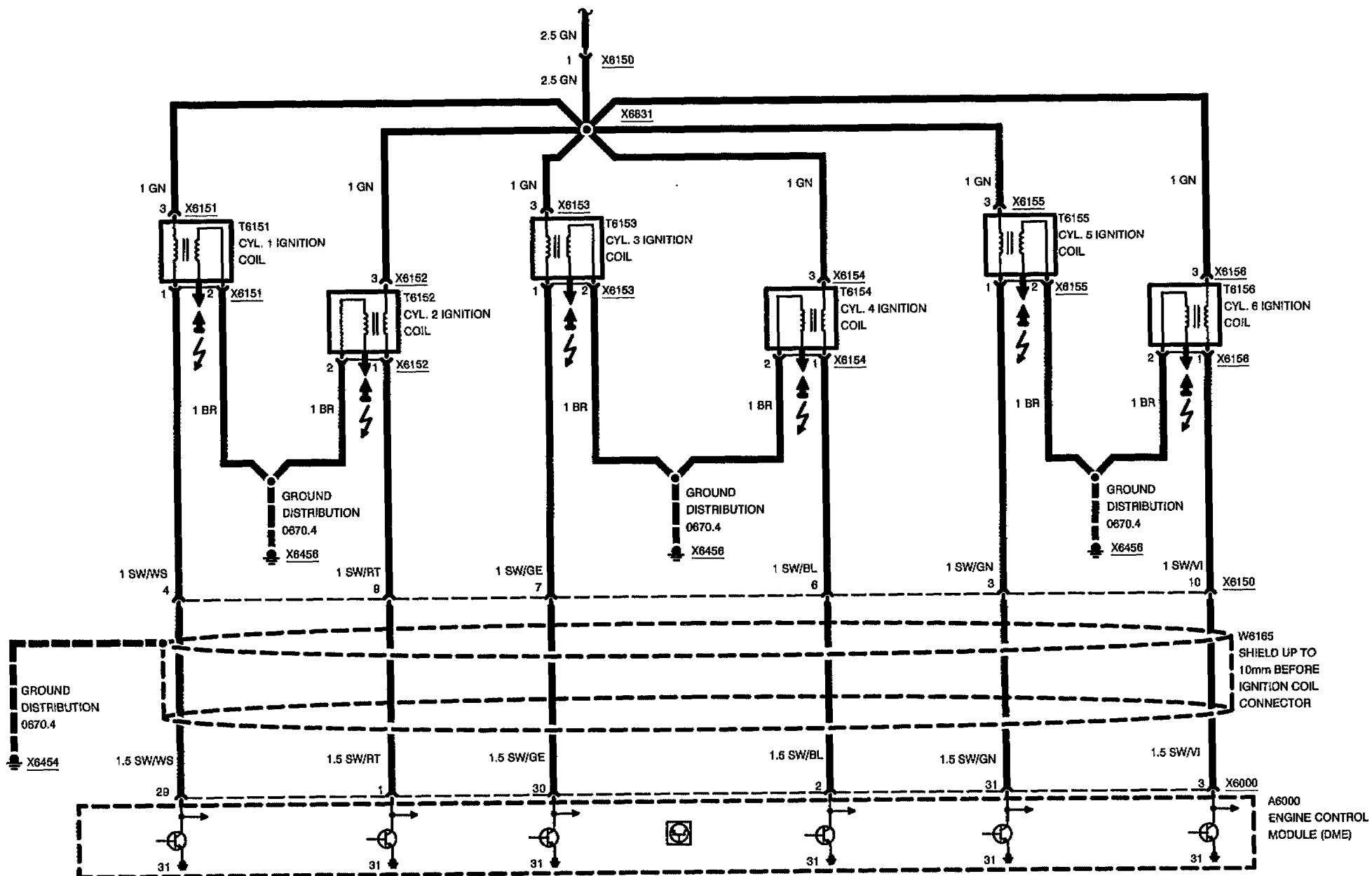
Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61	M	Oxygen sensor heating ground	Oxygen sensor (behind catalytic converter)
62	A	Activate valve	Secondary air pump value
63	E	Cyl. 4-6 knock sensor	Knock sensor
64	M	Ground	Camshaft position sensor
65	E	Camshaft position	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

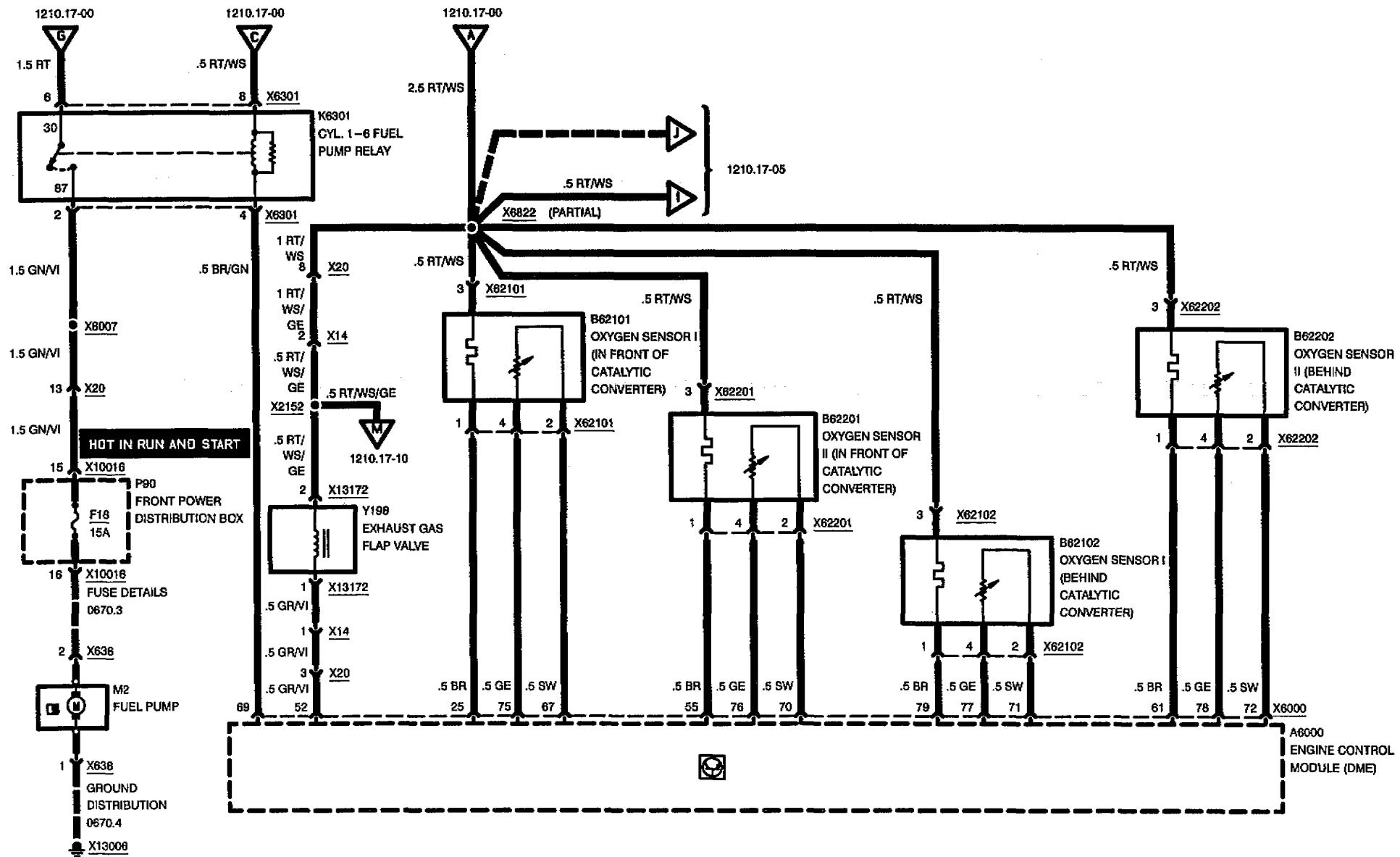
E = Input, A = Output, M = Ground

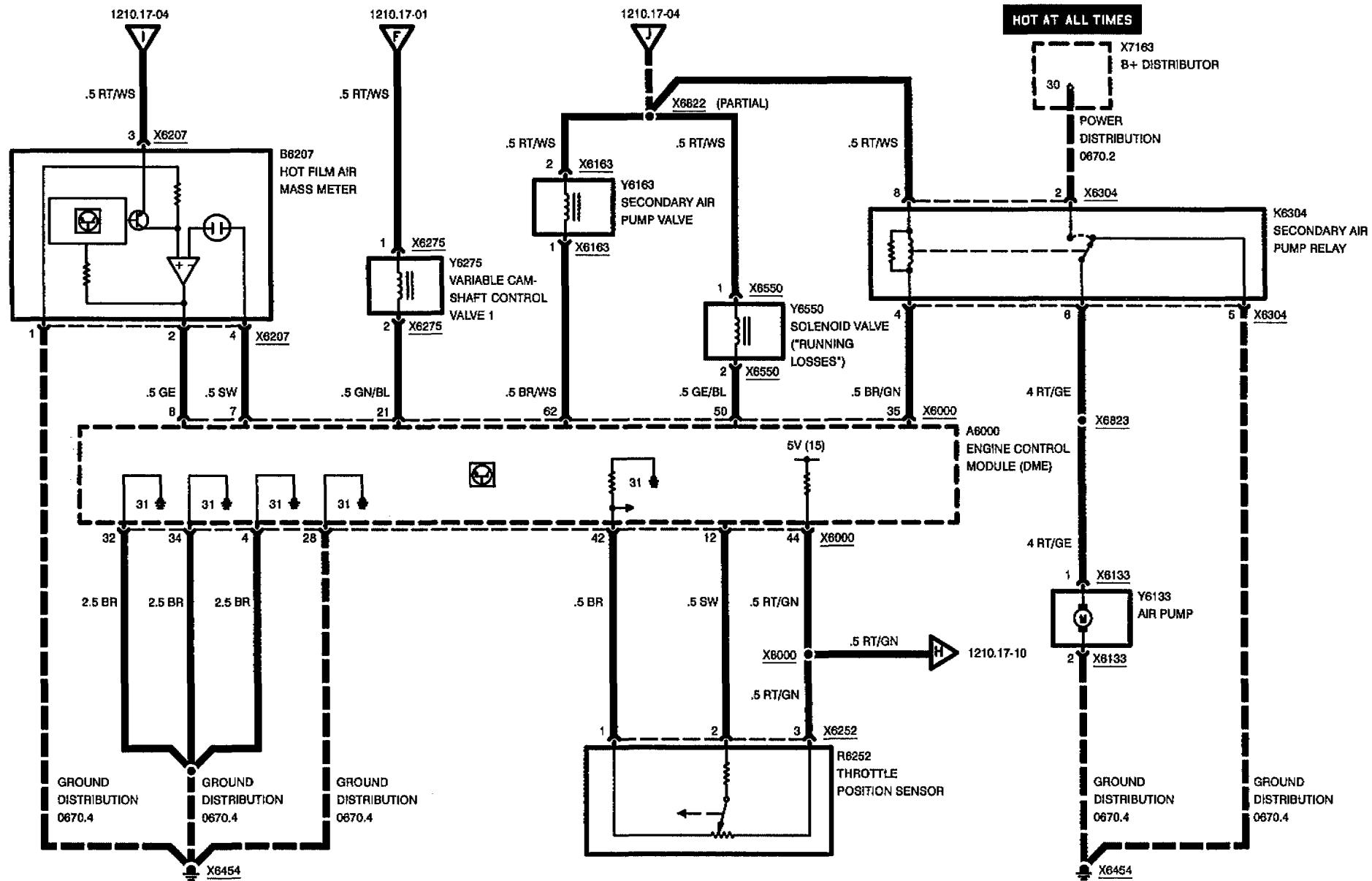


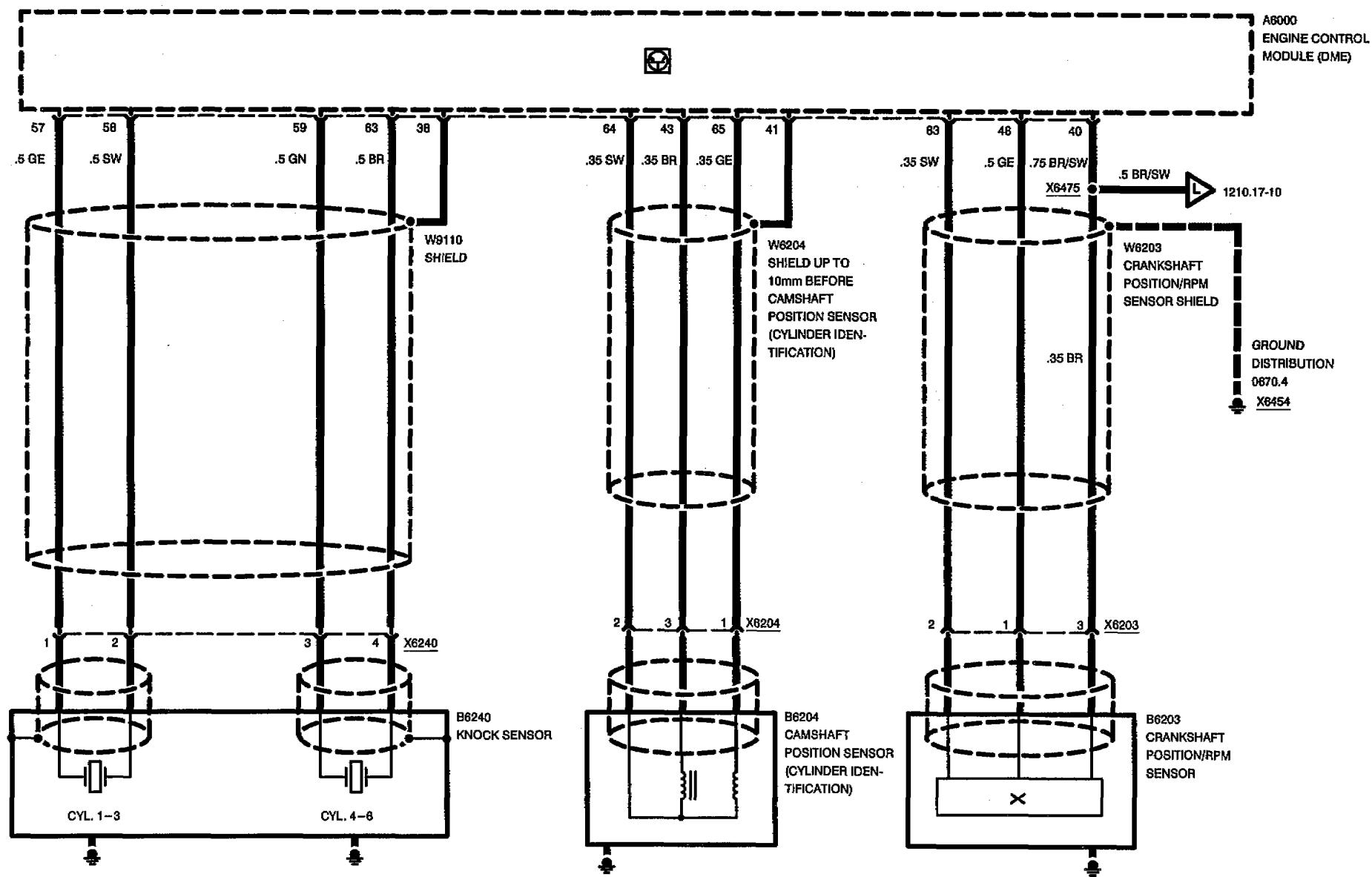


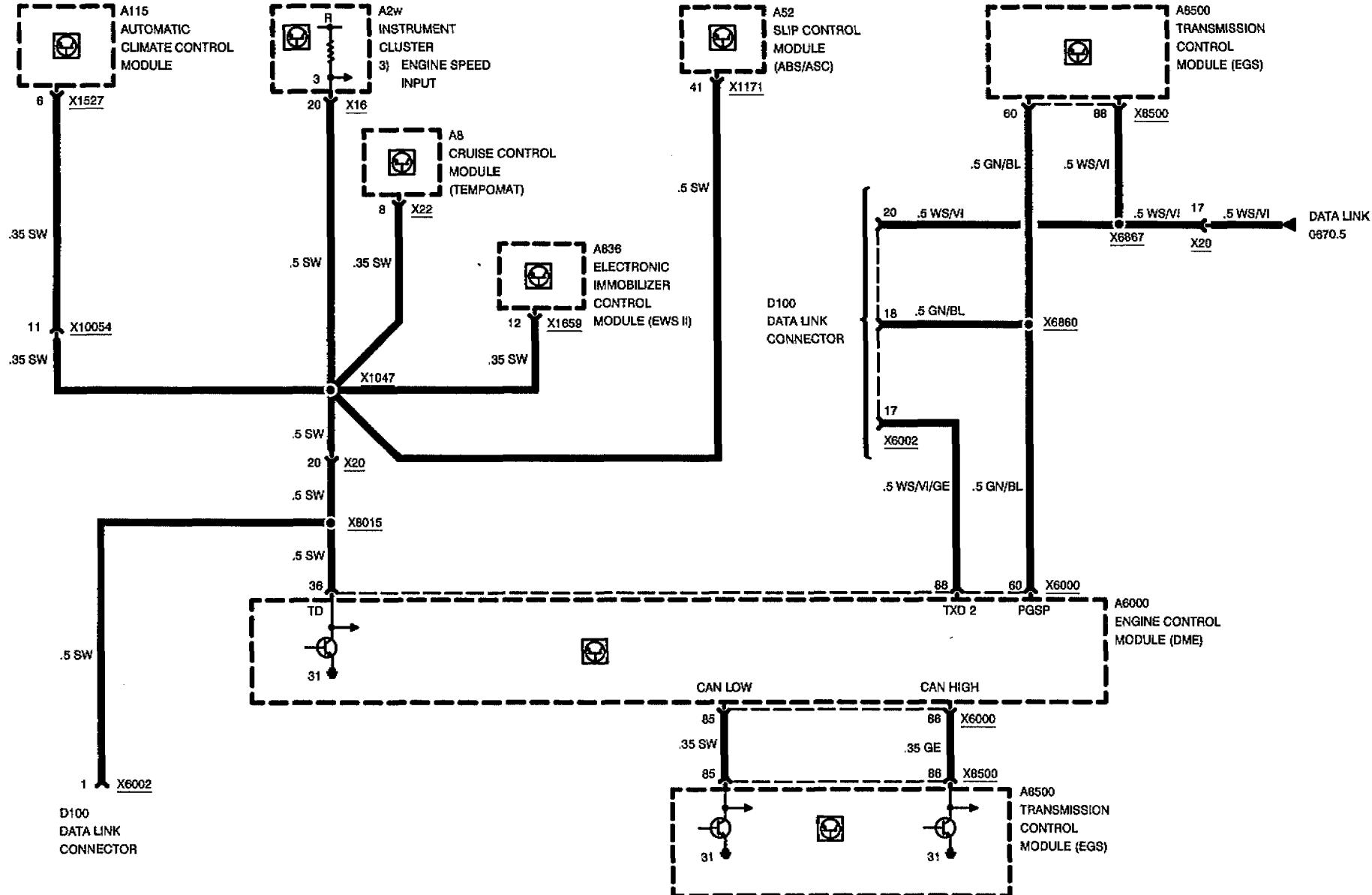


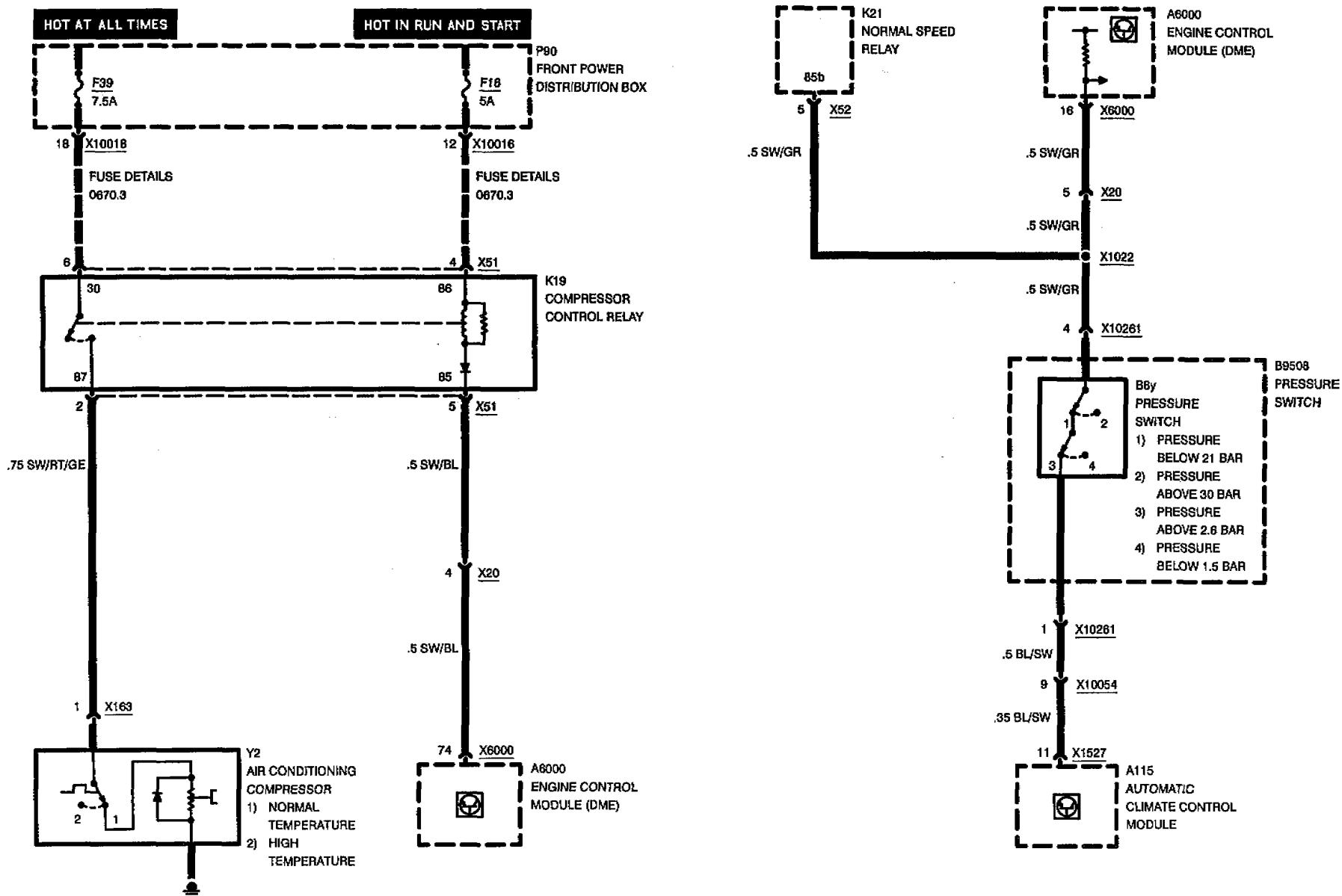


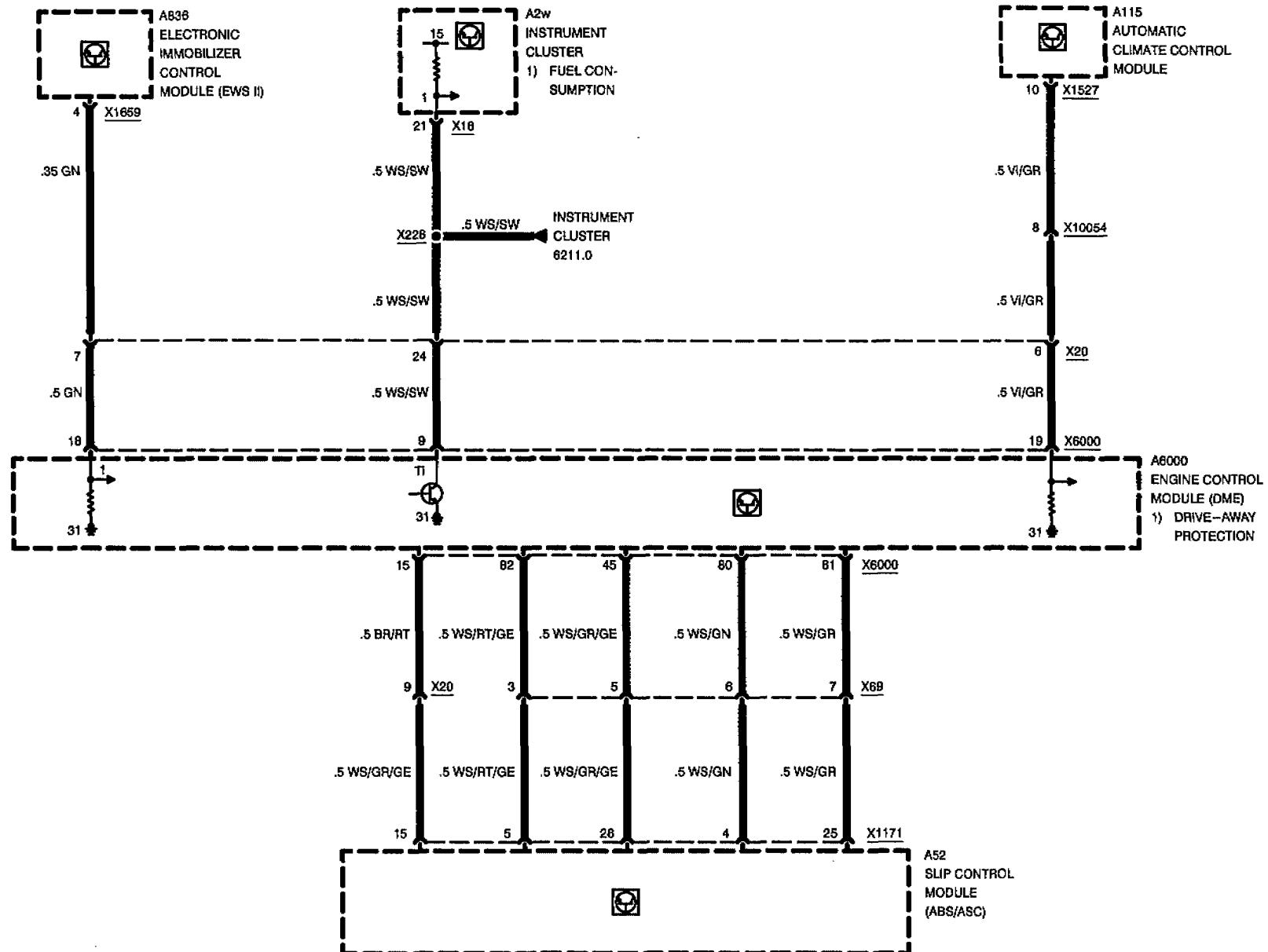








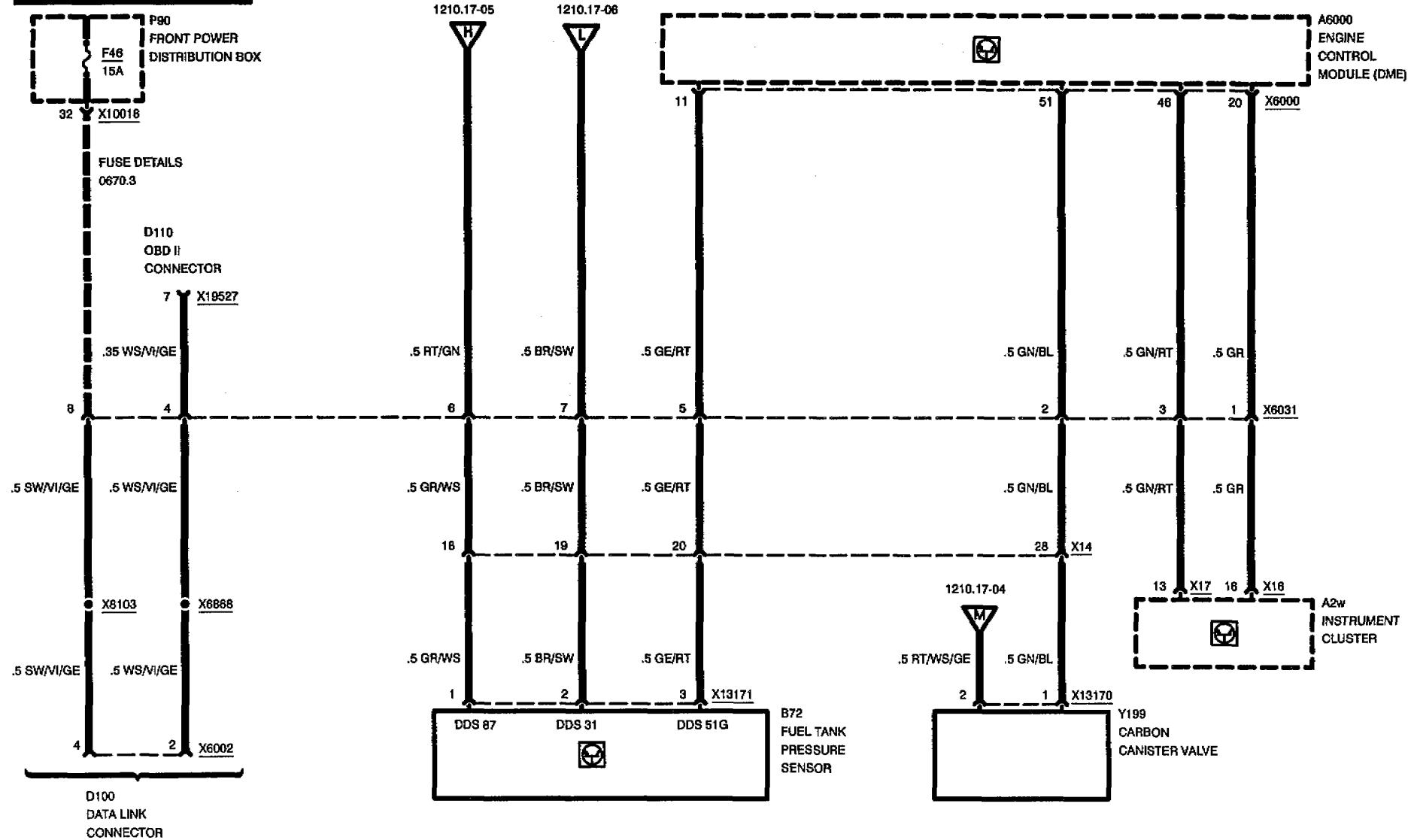


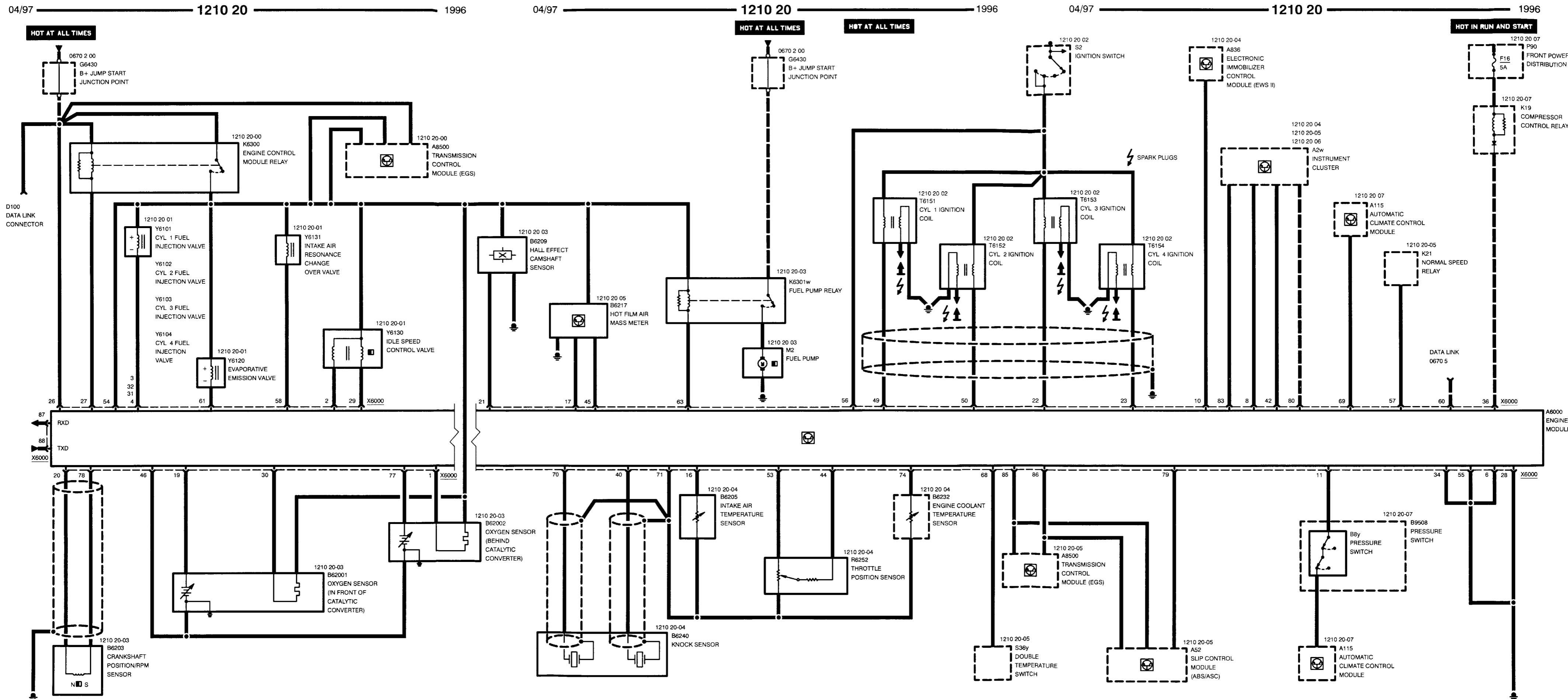


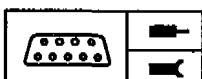


## OBD II DIAGNOSIS

HOT IN ACCY RUN AND START





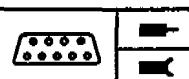


## Pin Assignments

### 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

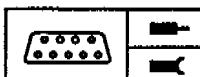
E = Input, A = Output, M = Ground



## 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

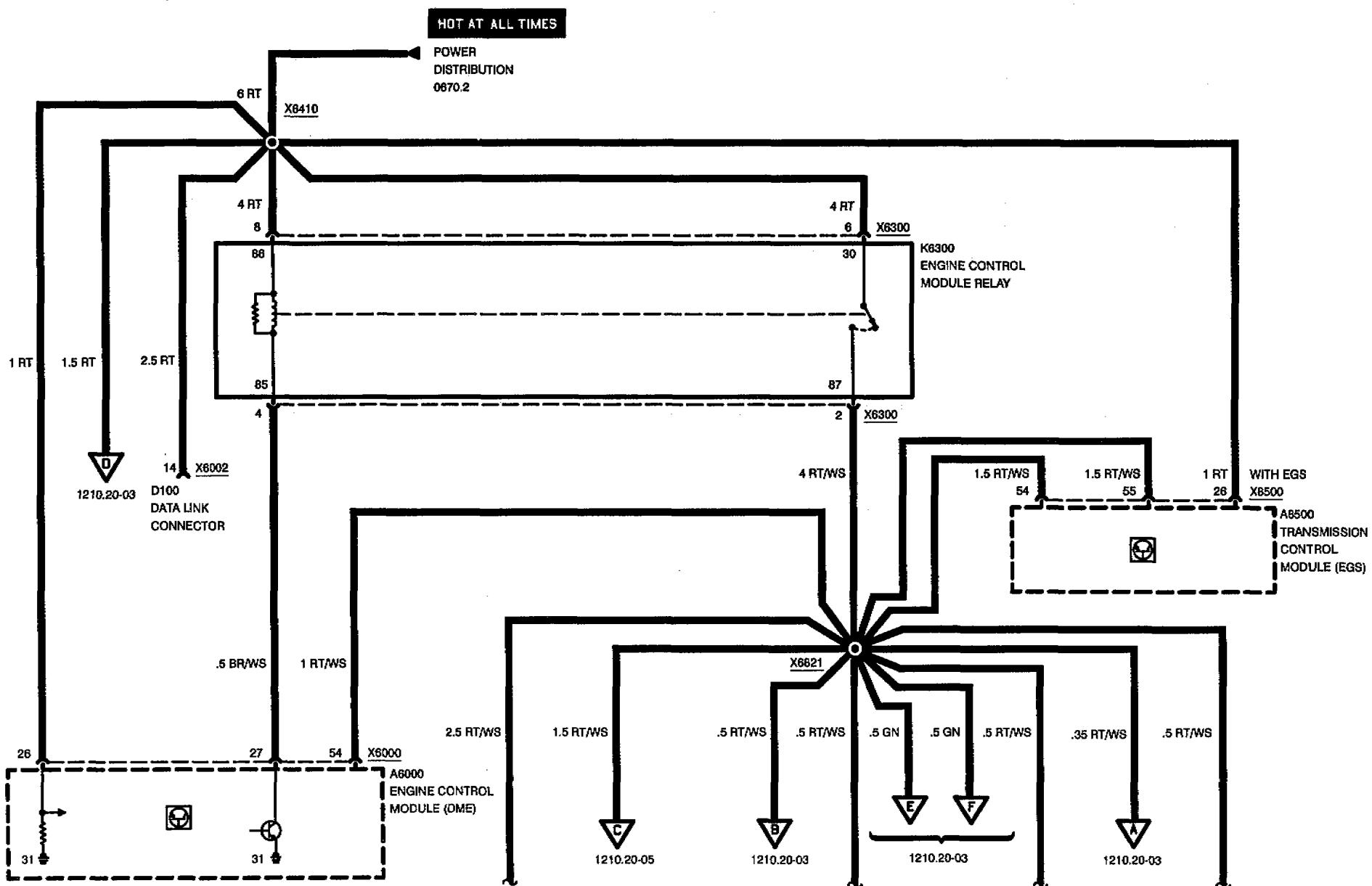
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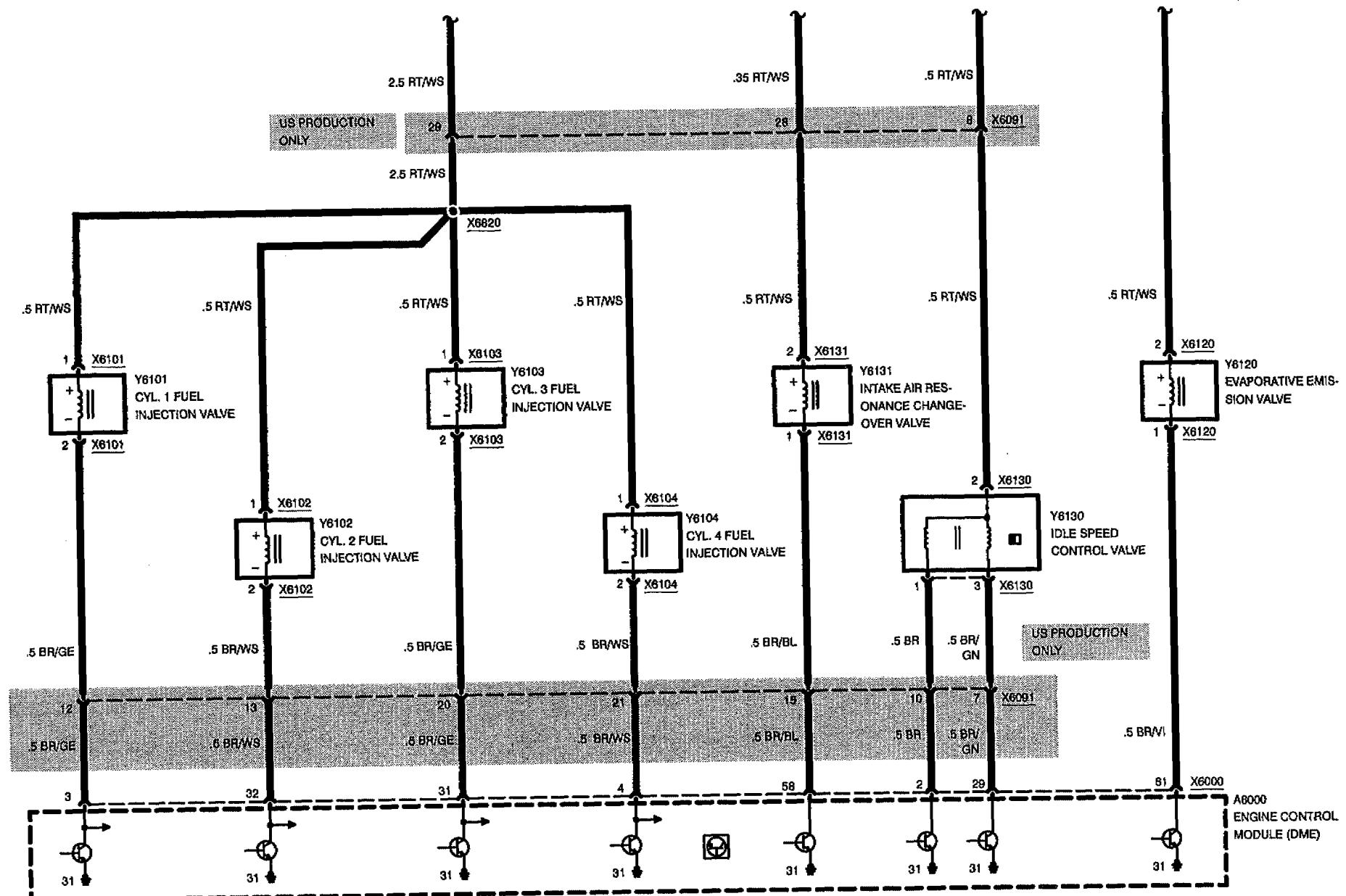


## Pin Assignments

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







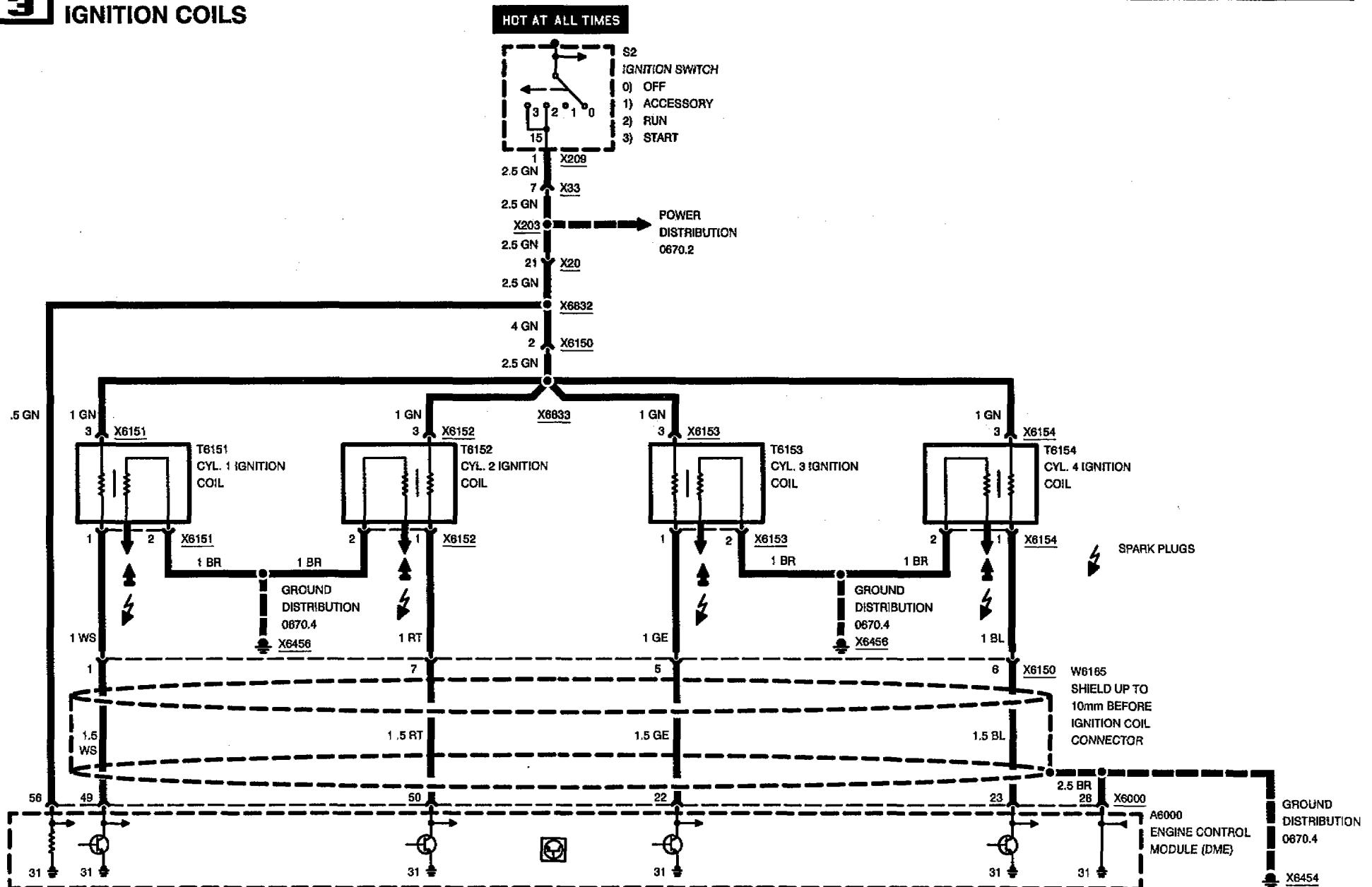
# ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

## IGNITION COILS

04/97

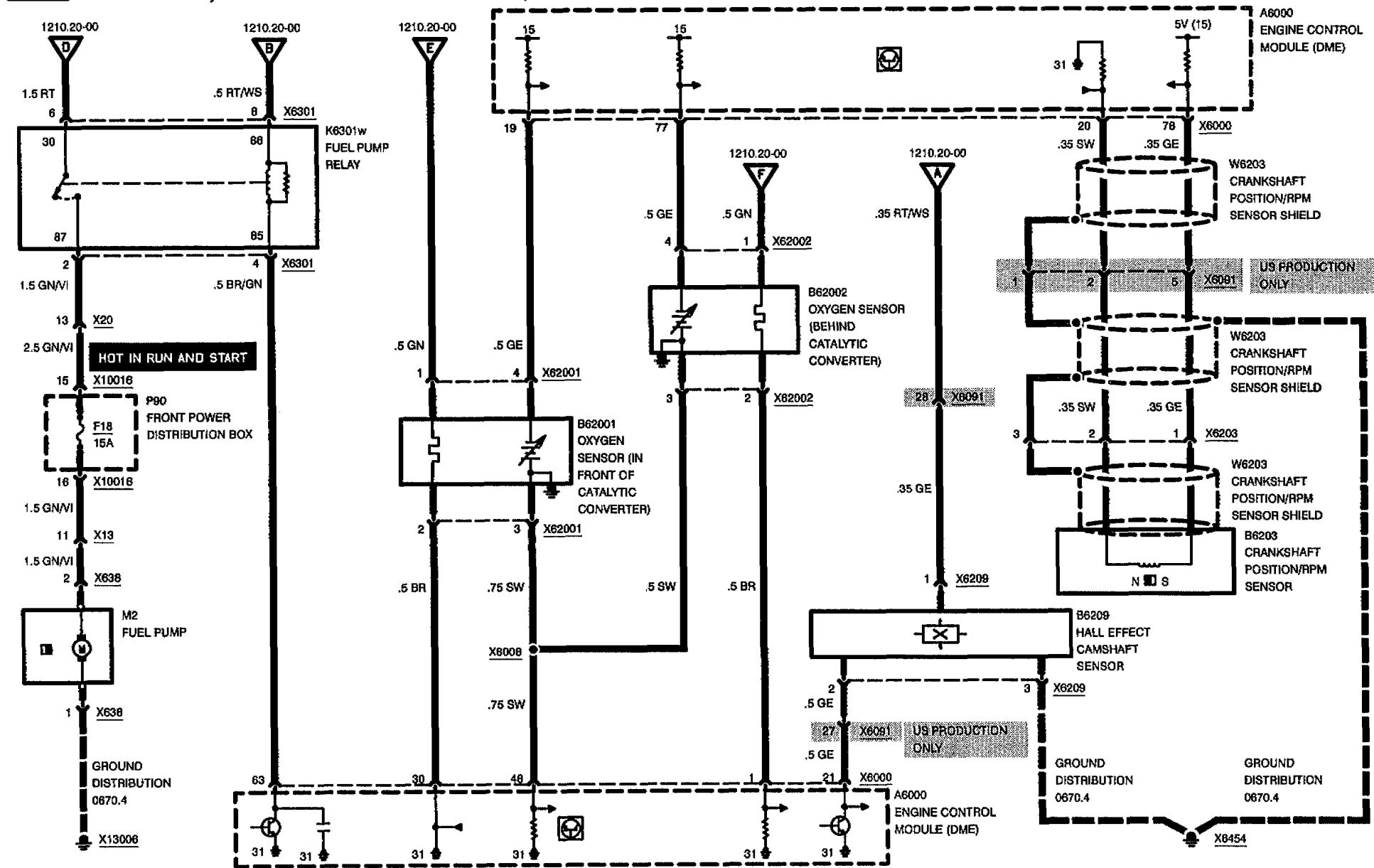
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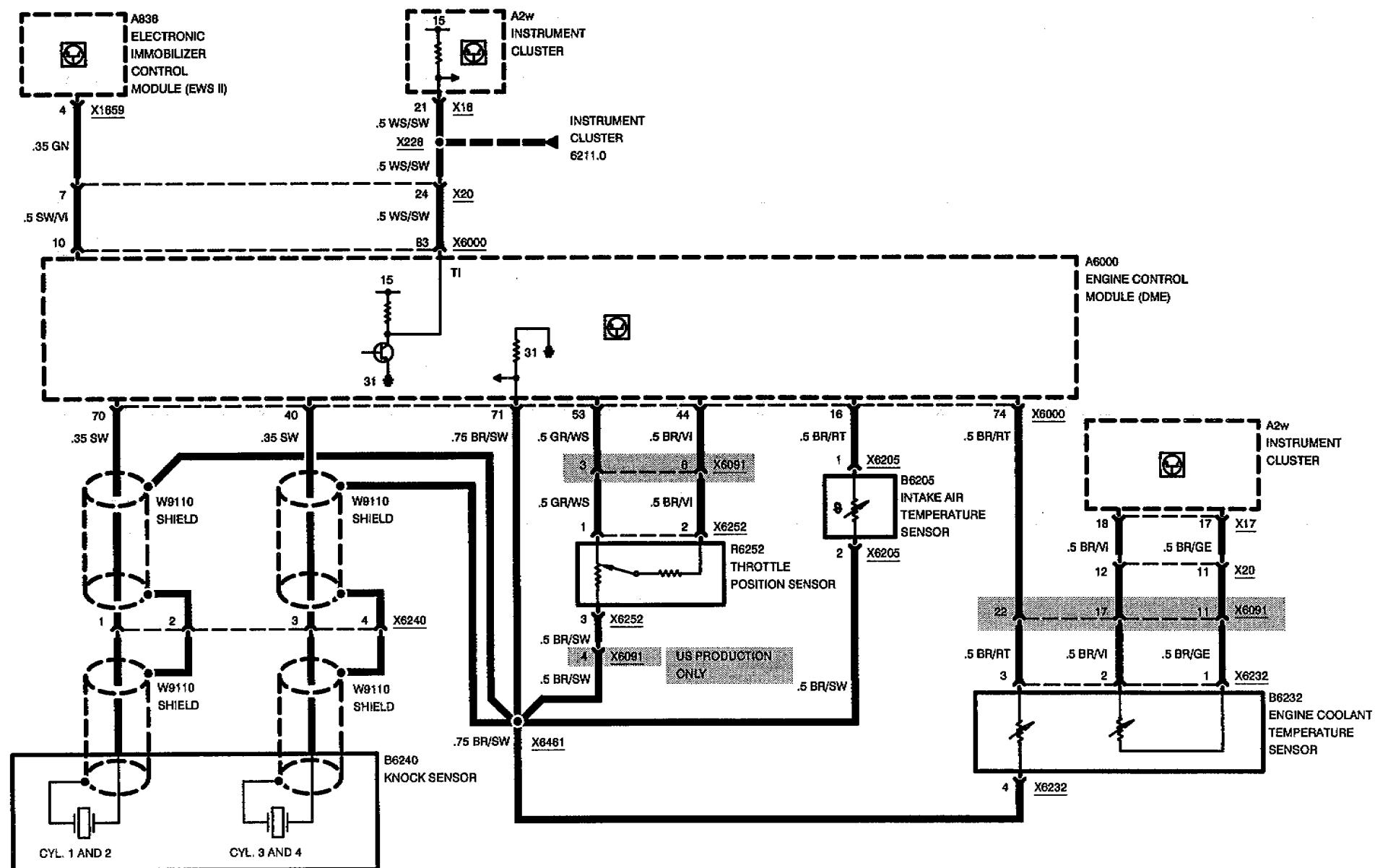
1996



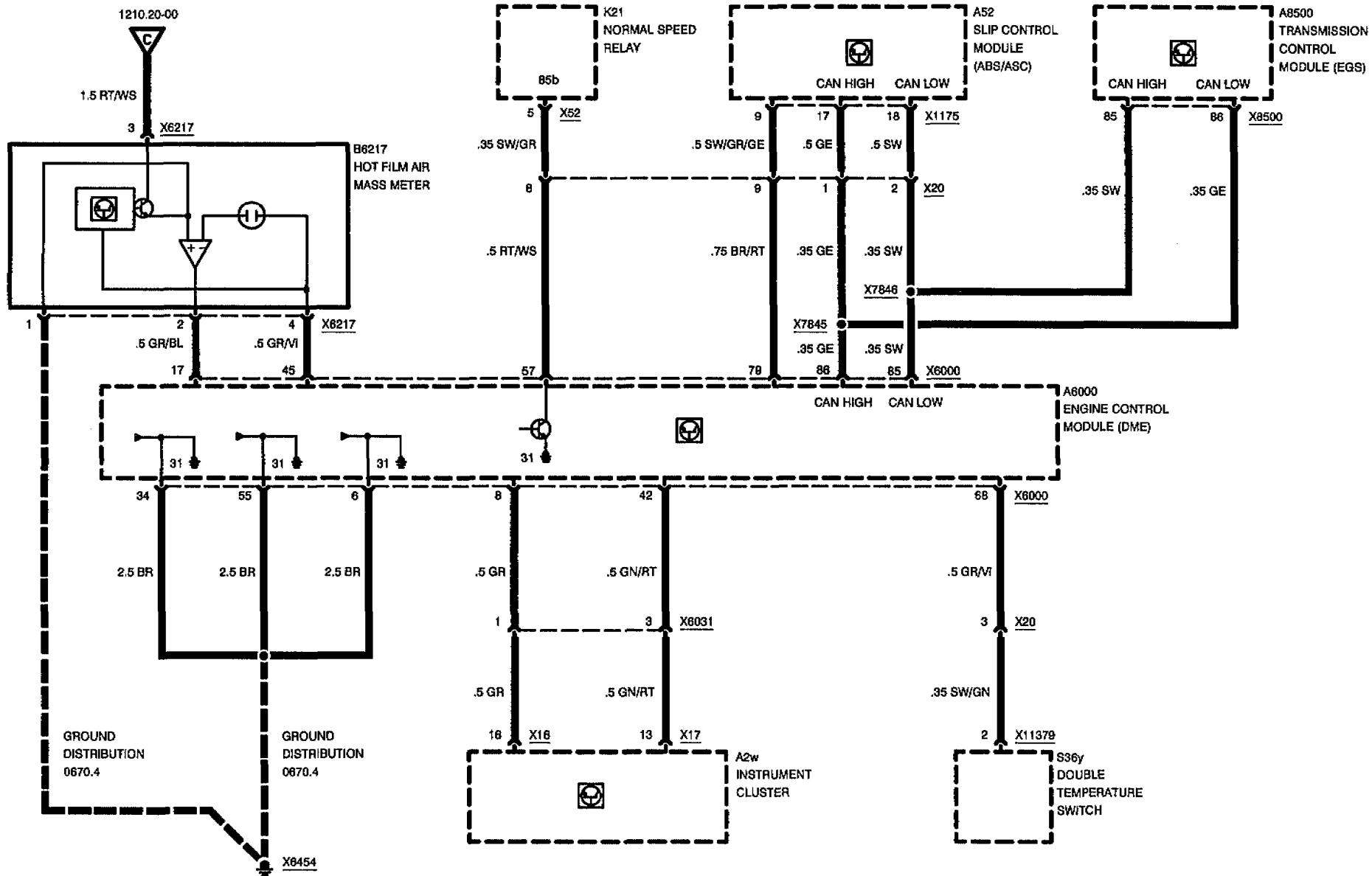
# BMW 3 ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

## FUEL PUMP, HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS





## ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)





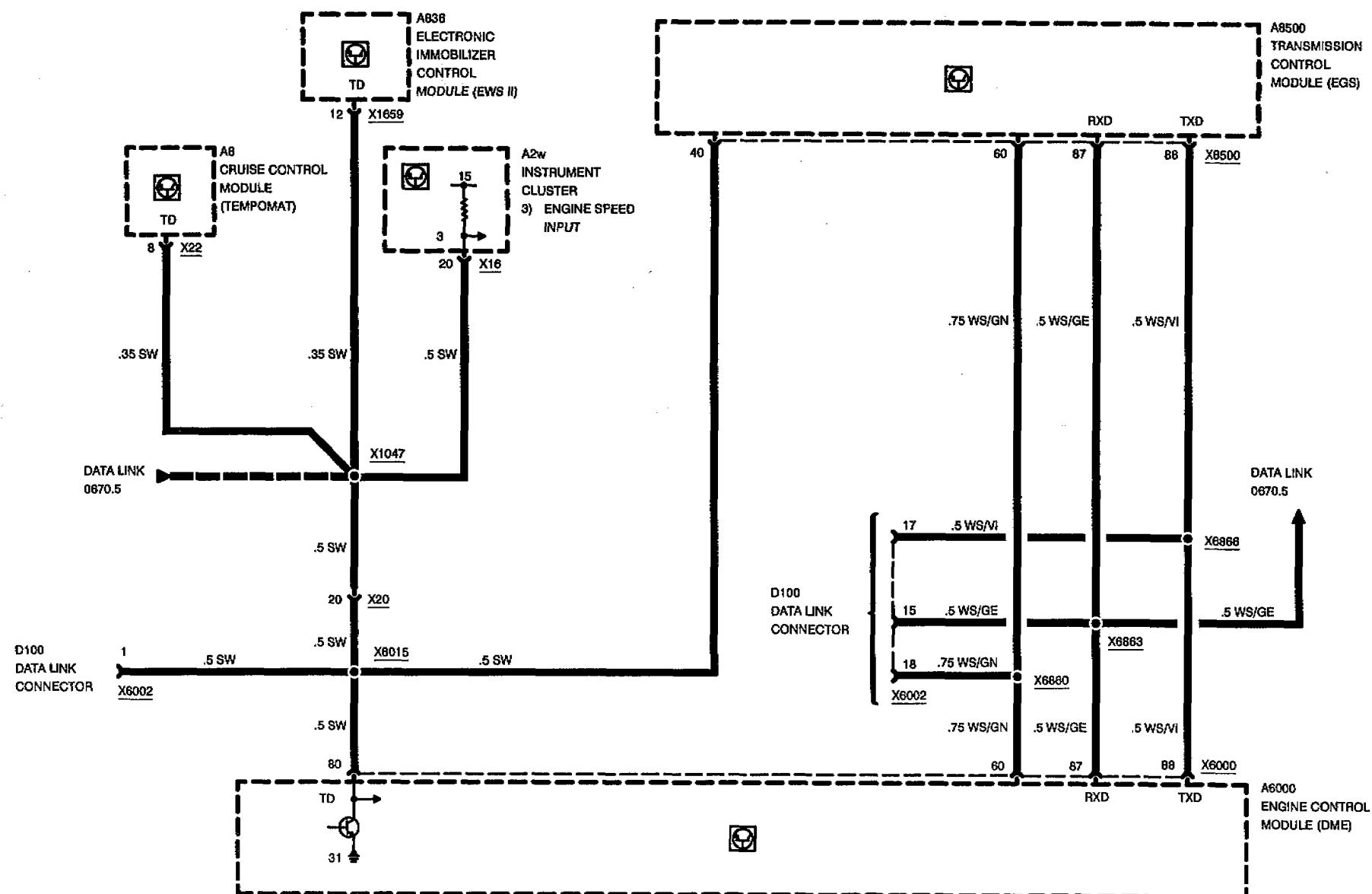
# ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

## DATA LINK

04/97

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1996



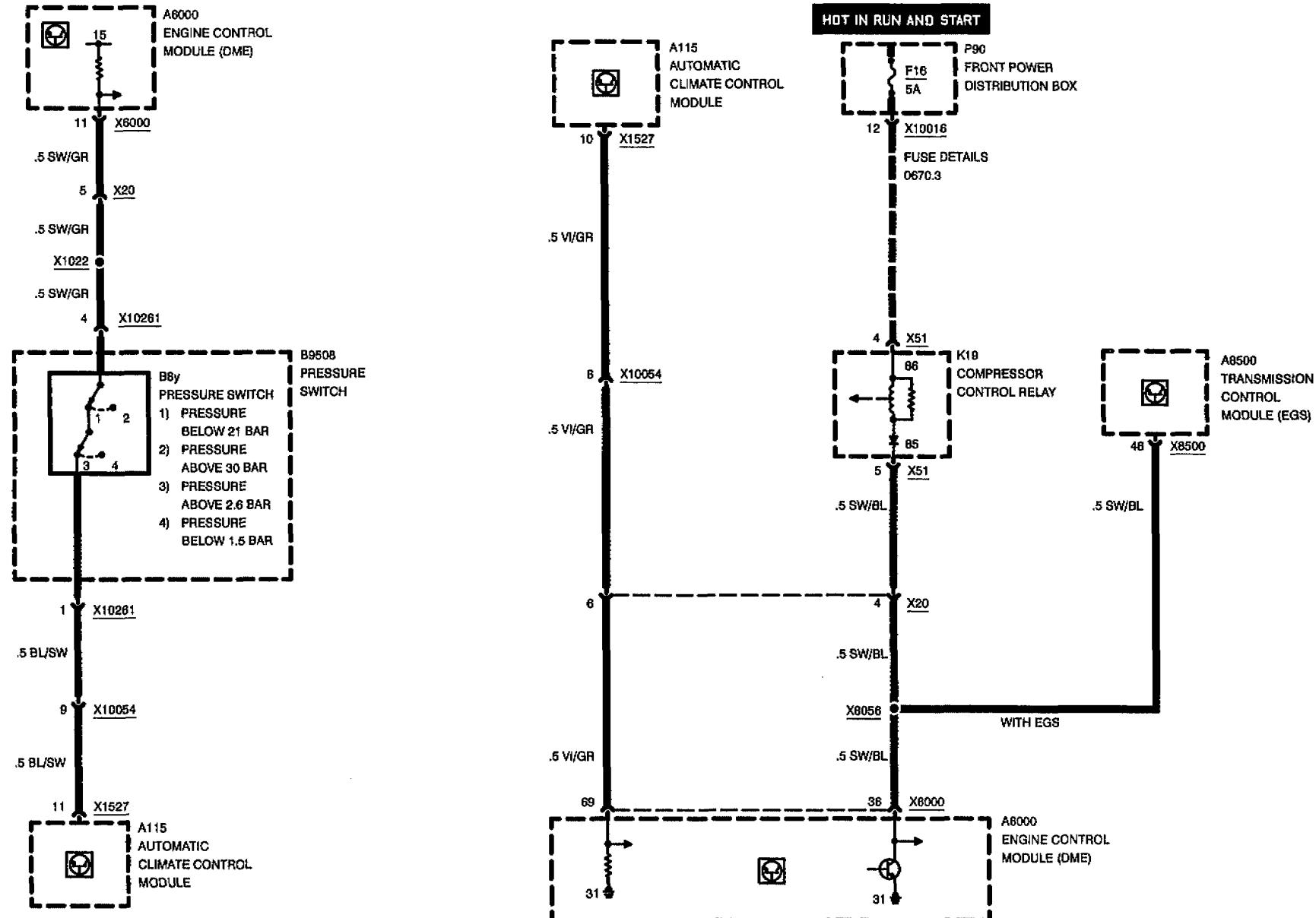


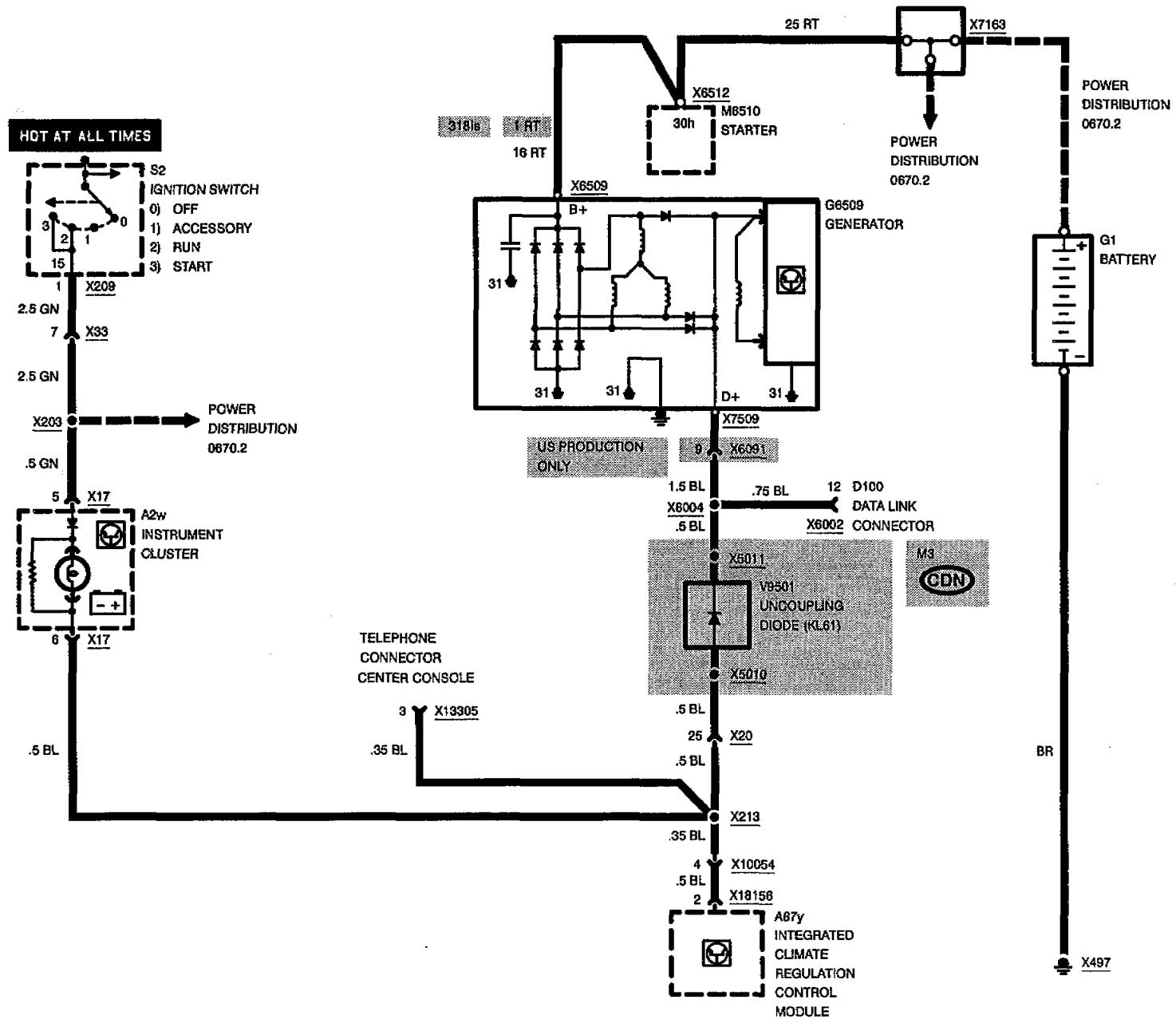
## ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

04/97

1210.20-07

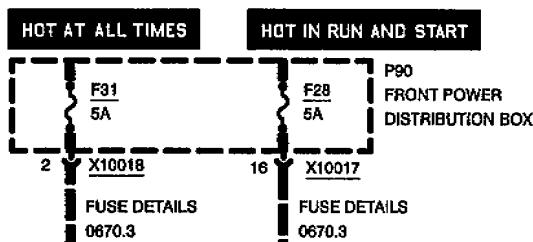
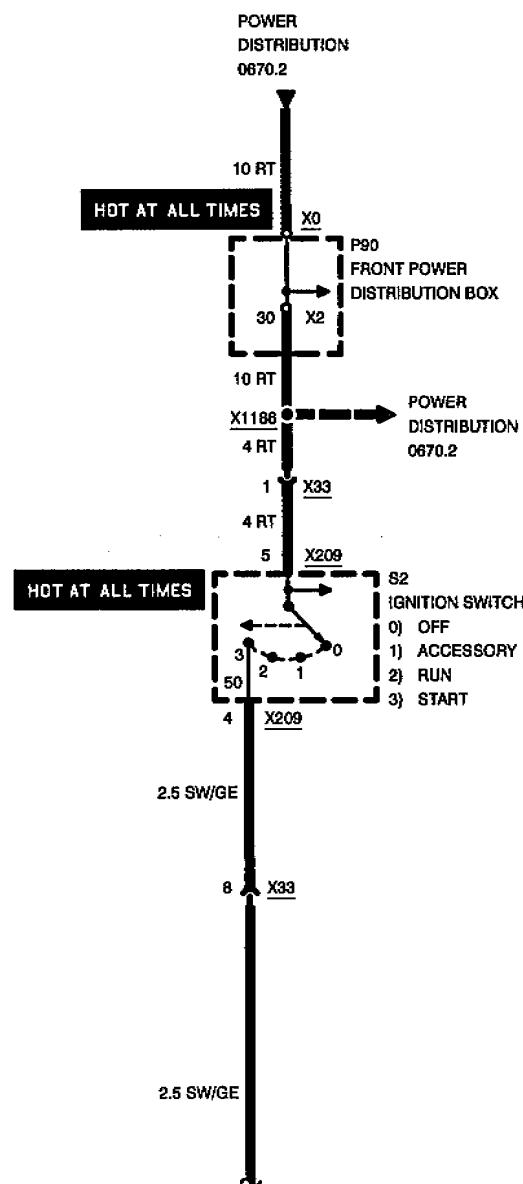
1996



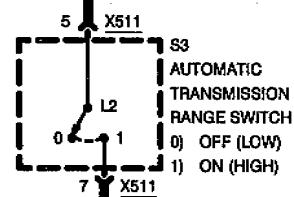




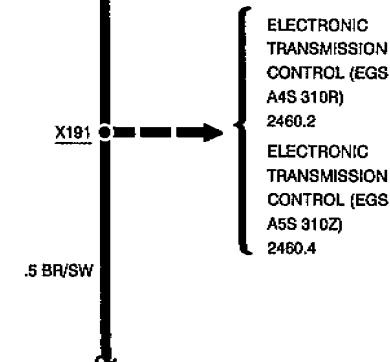
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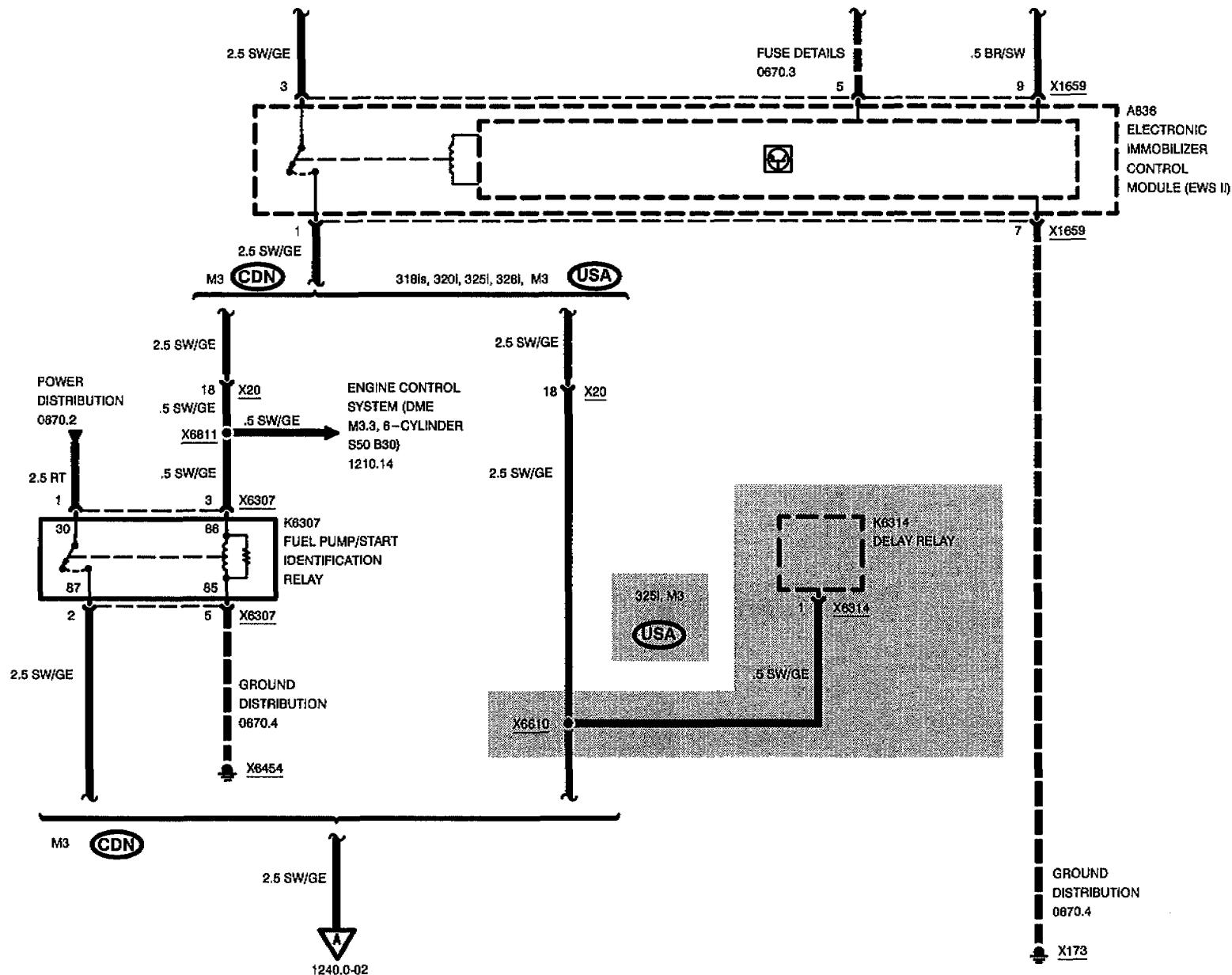


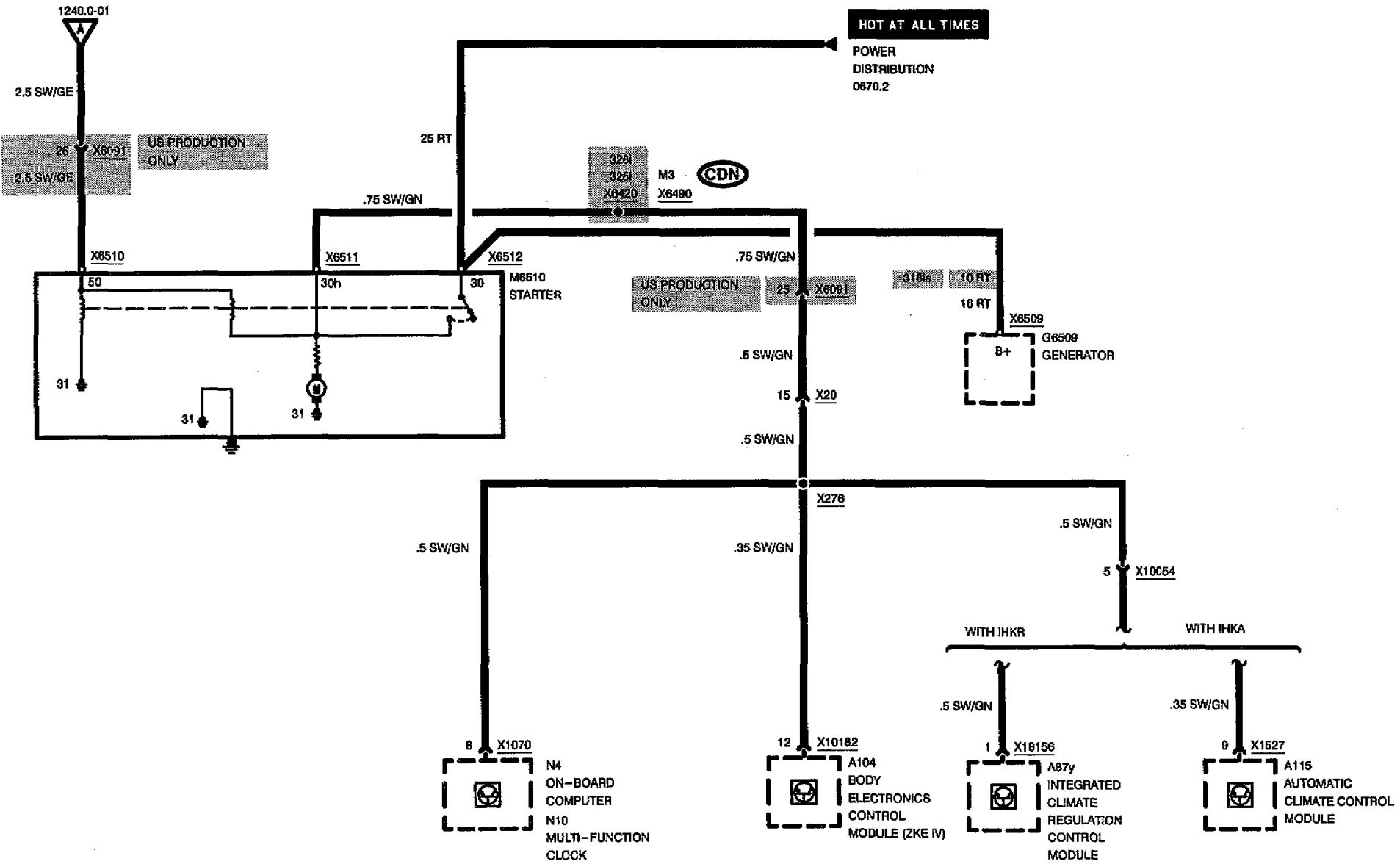
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0



.5 BR/SW WITH EGS







04/9

- 2460 2

— 199 —

04/

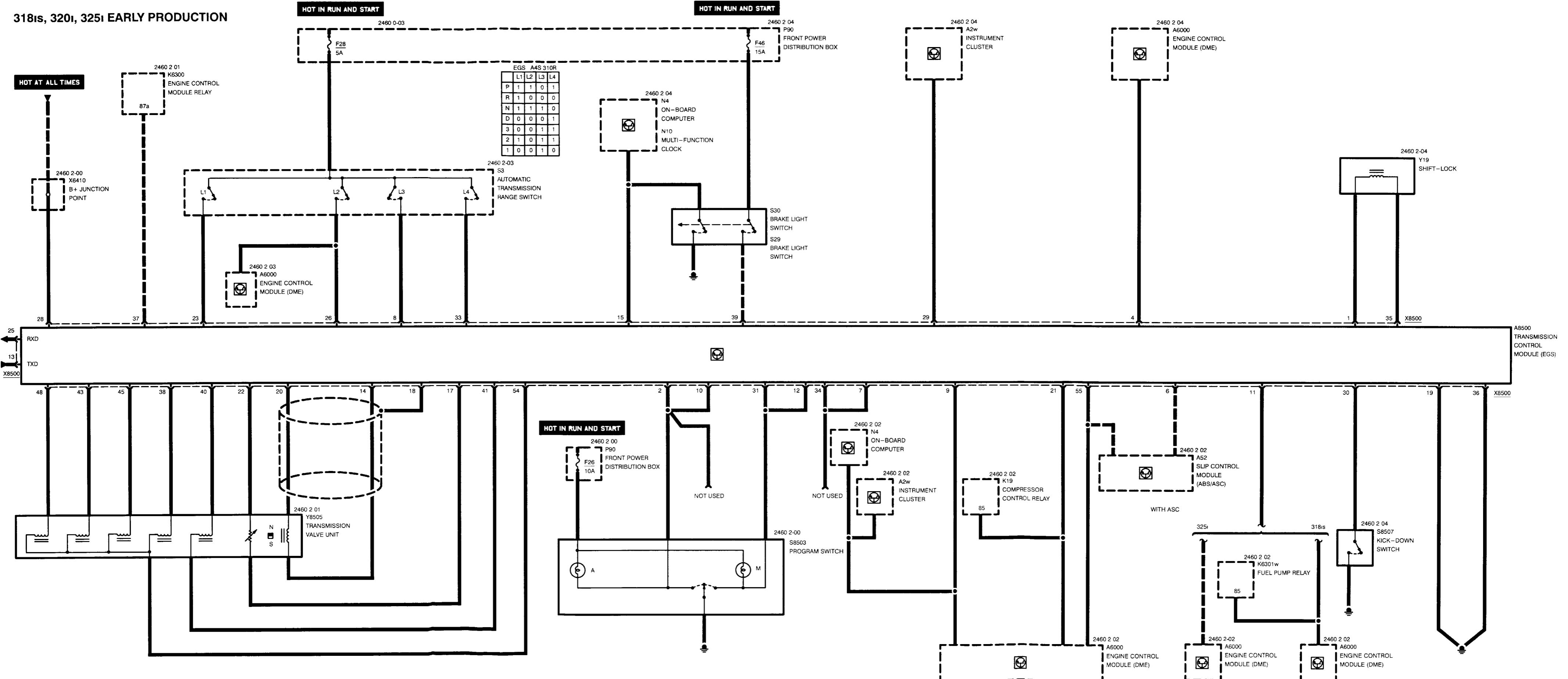
- 2460 2a

04

.60 2a —

96

## **318iS, 320i, 325i EARLY PRODUCTION**



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— 2460 21

— 199 —

04/9

2460 2b -

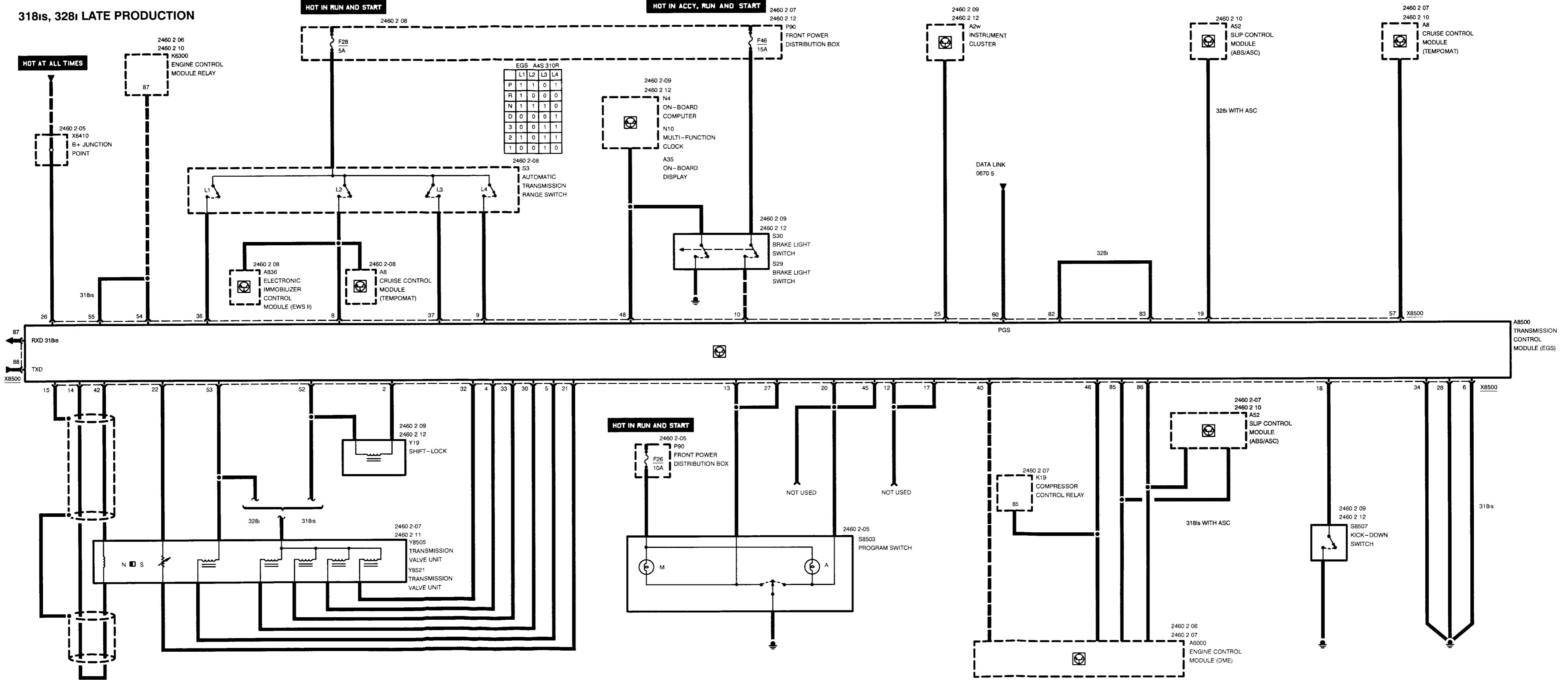
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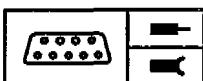
04/97

460 2b —

1996

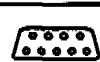
#### **318is, 328i LATE PRODUCTION**



**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

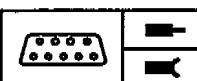
E = Input, A = Output, M = Ground



## 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	

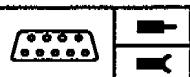
E = Input, A = Output, M = Ground



## 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

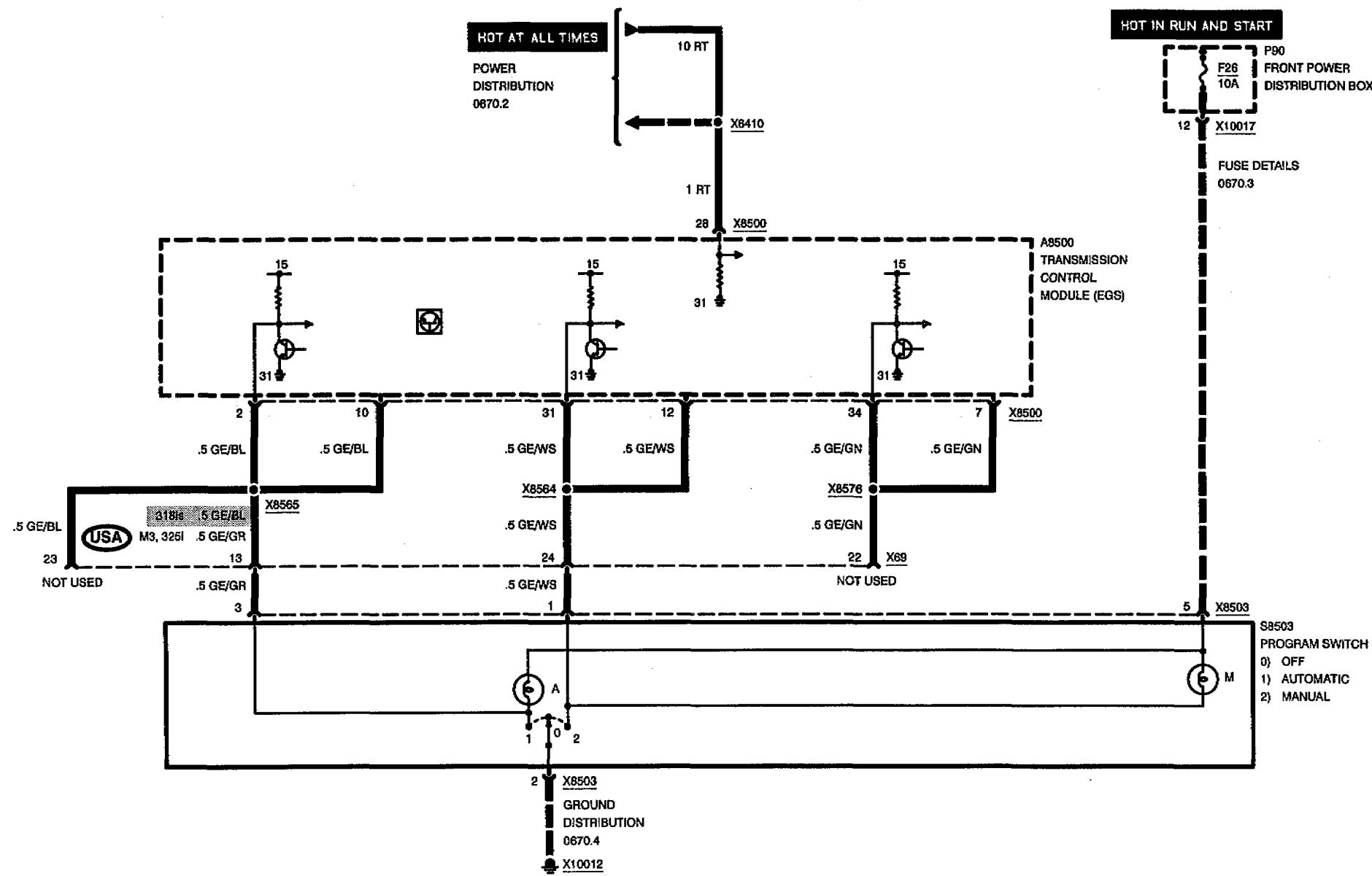


## Pin Assignments (318is, 328i – Late Production)

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

## POWER, PROGRAM SWITCH





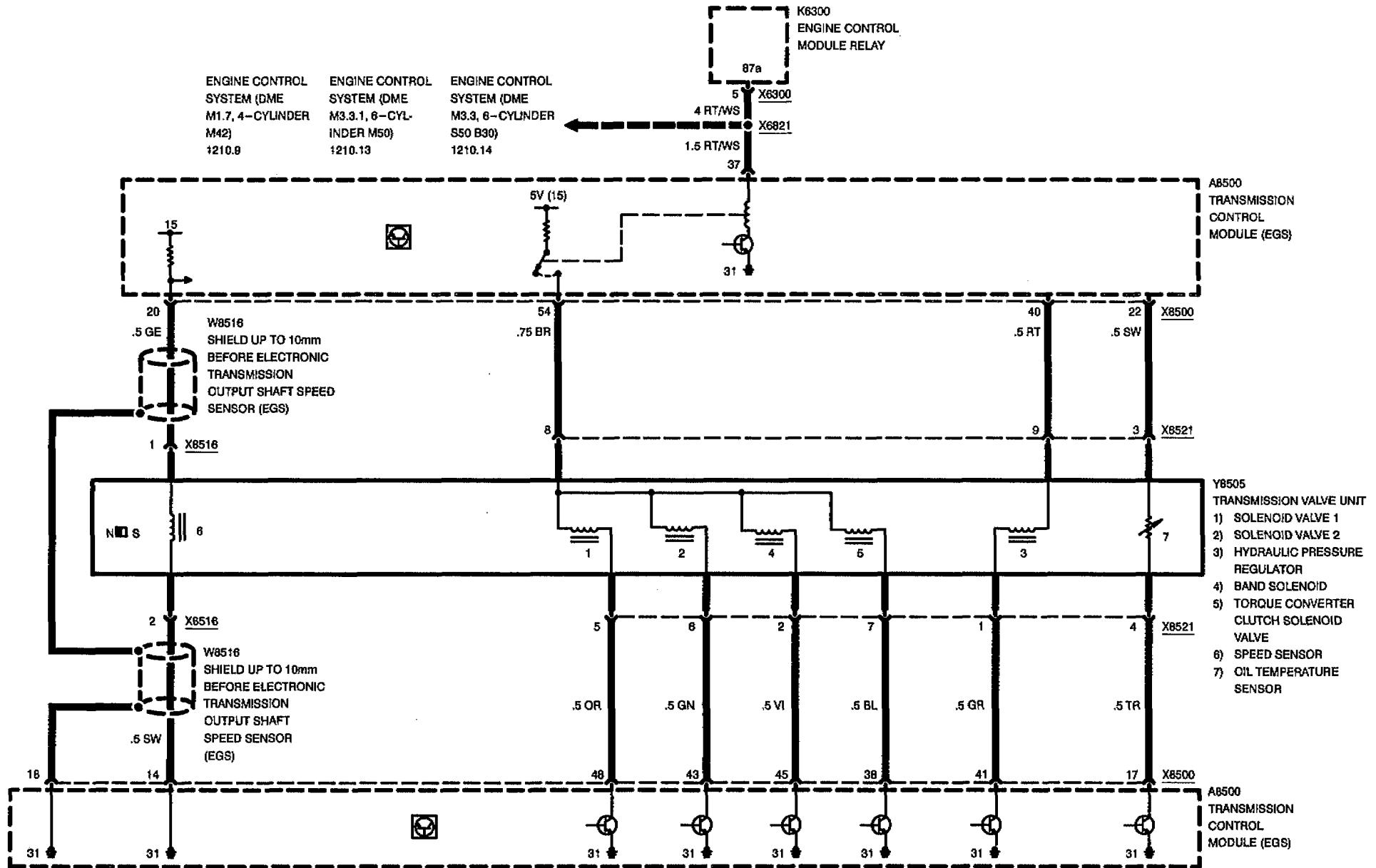
## ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R) 318is, 325i, M3 EARLY PRODUCTION

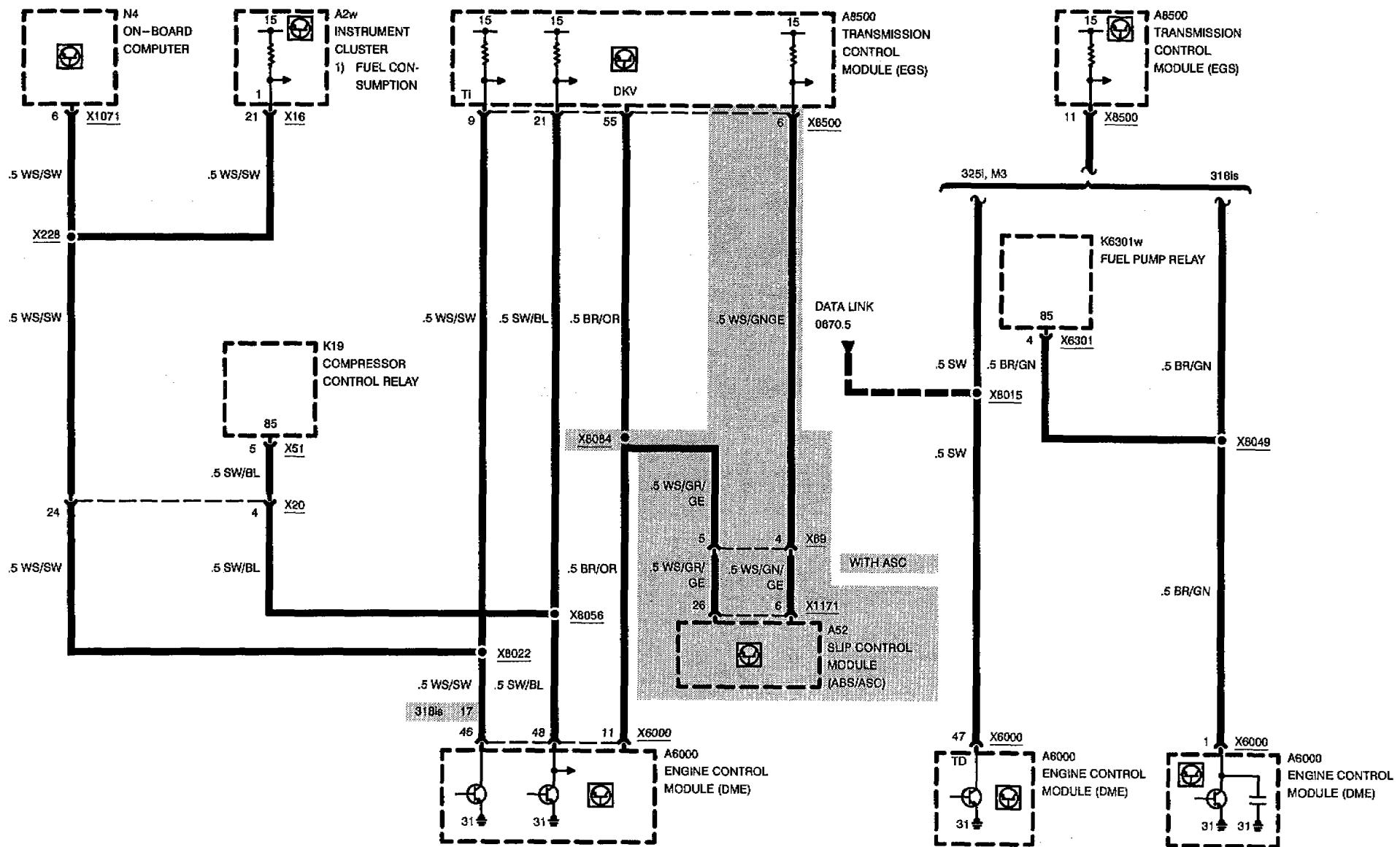
POWER

04/97

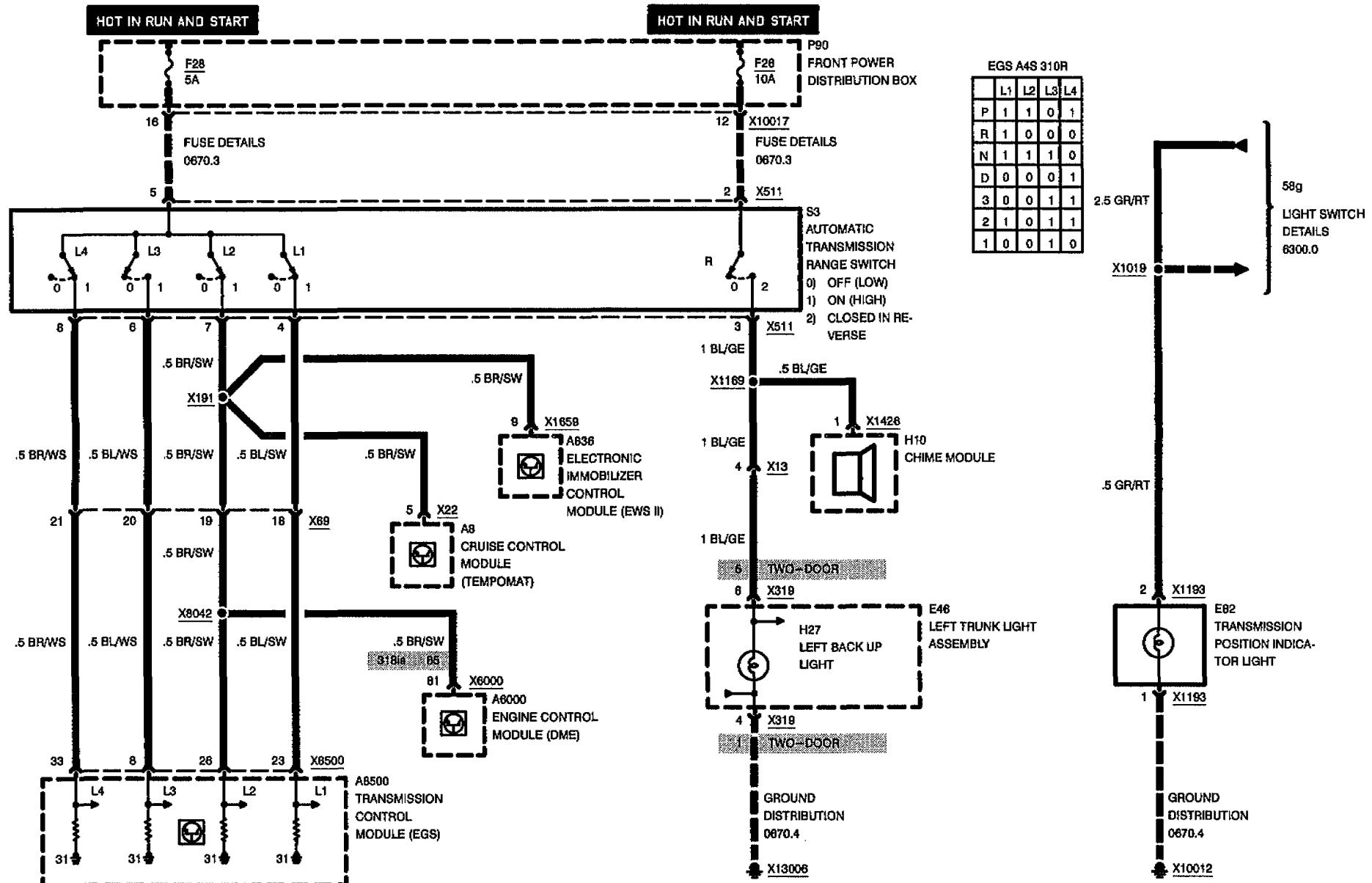
2460-2-01

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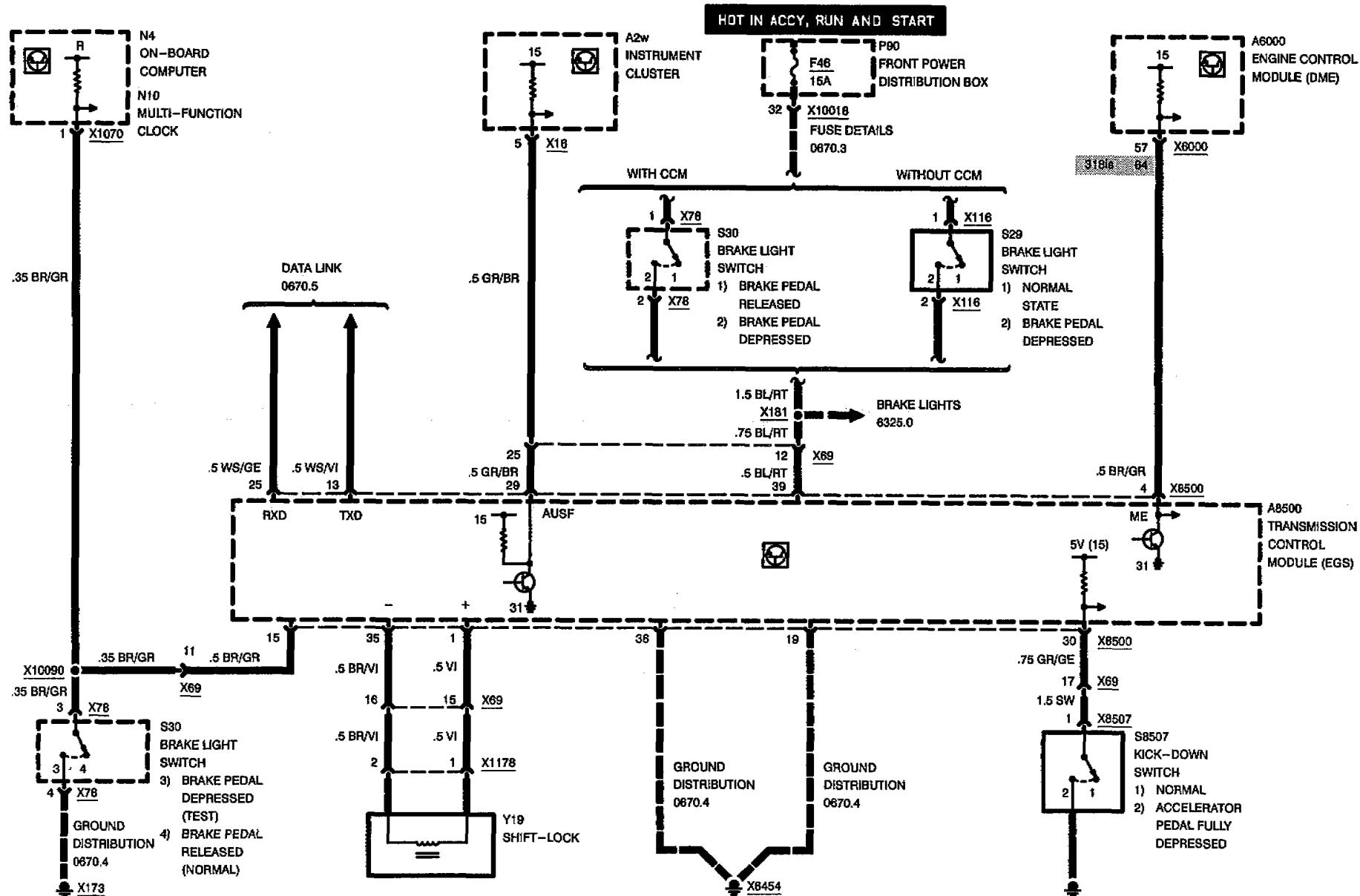




## GEAR SELECTOR SWITCH



## SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH

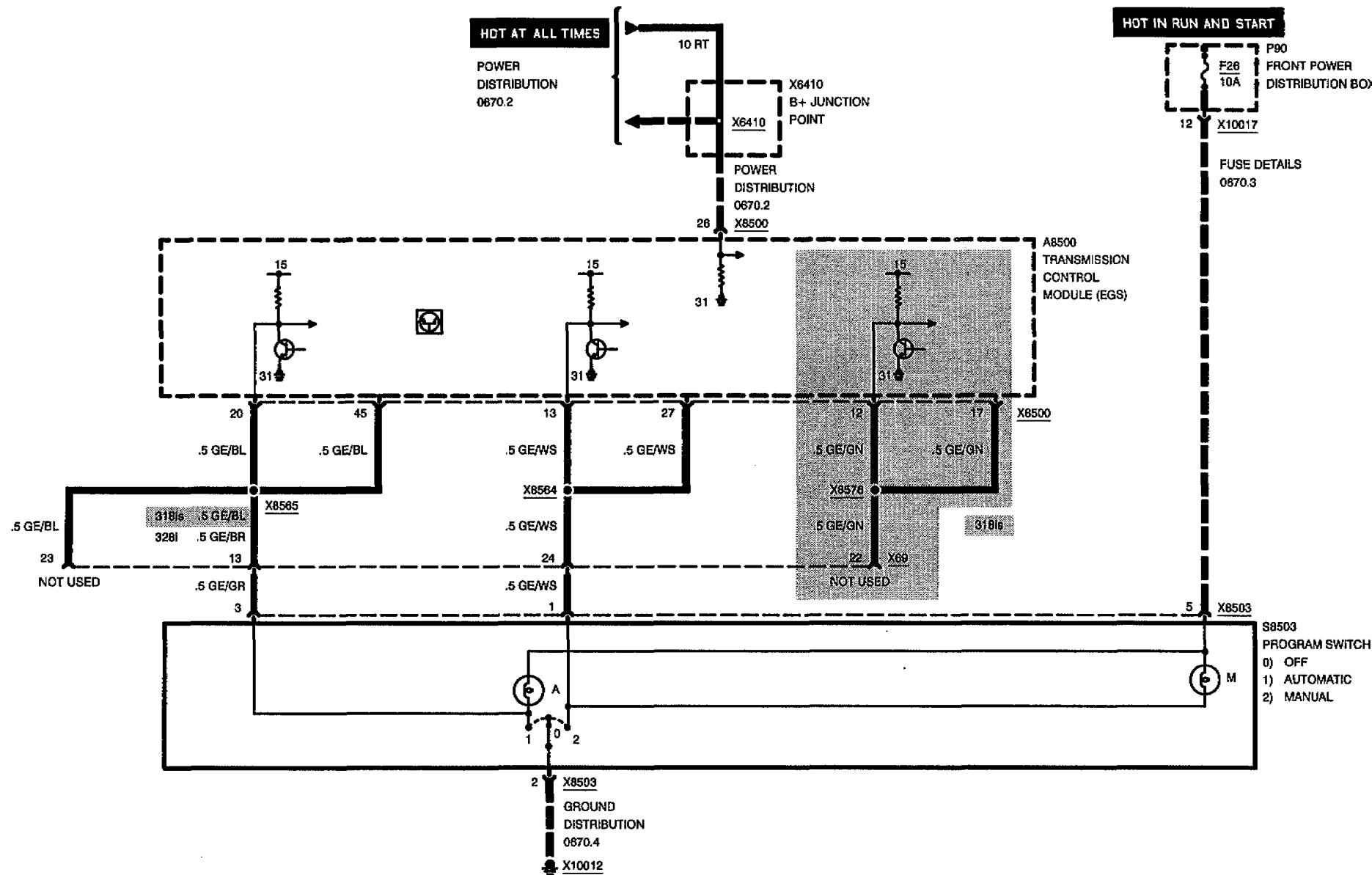




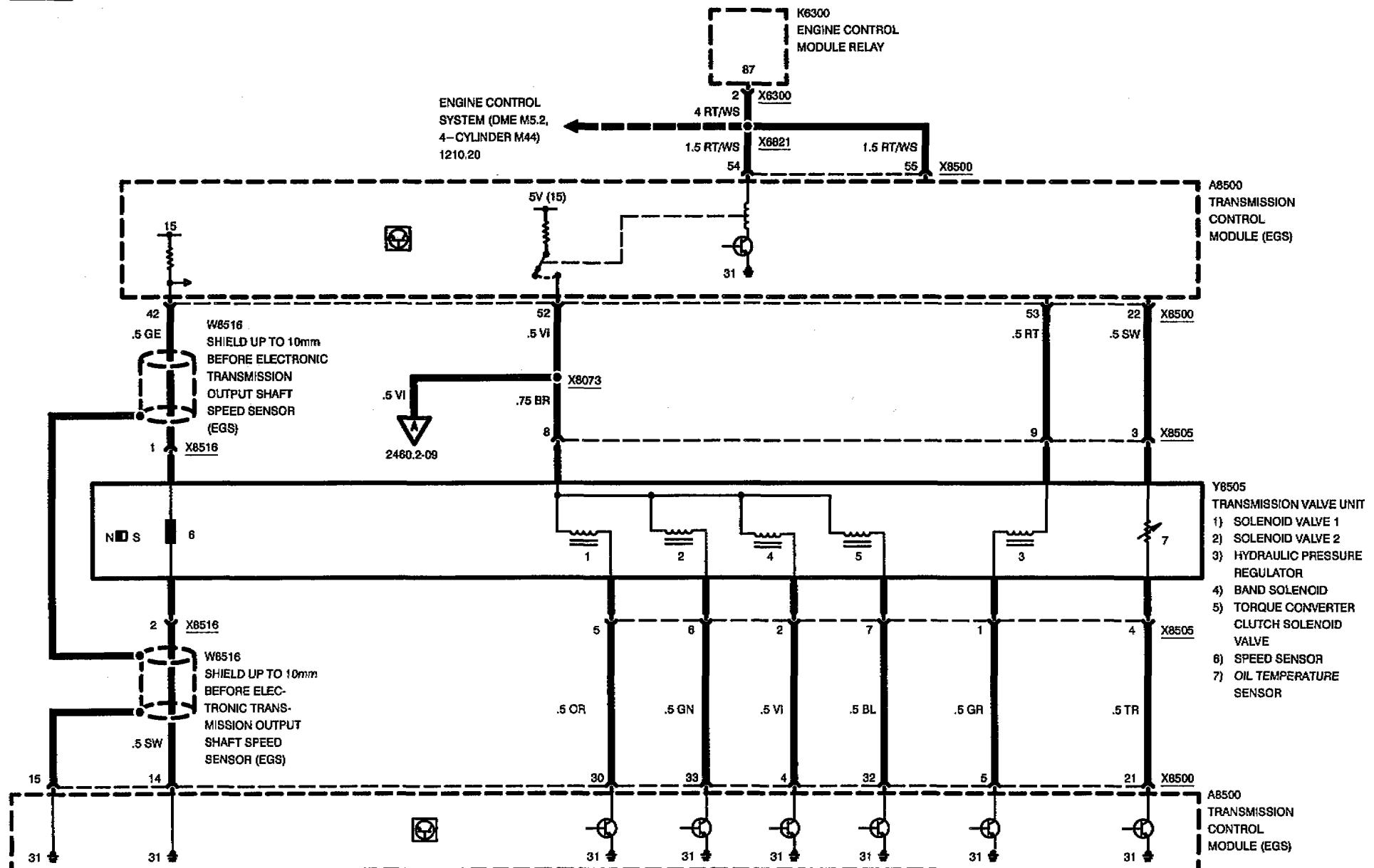
# ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

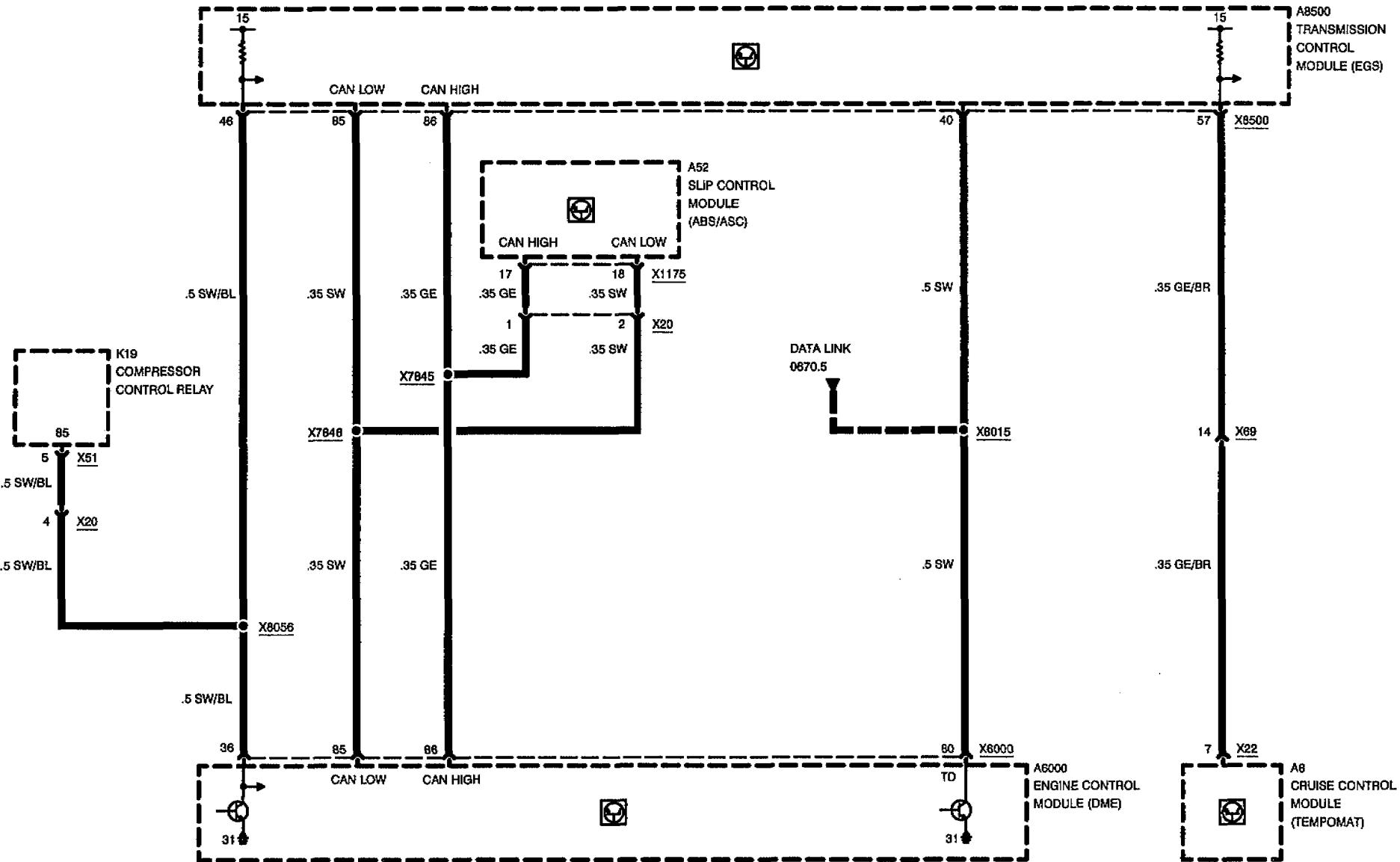
328i, 318is LATE PRODUCTION

## POWER, PROGRAM SWITCH

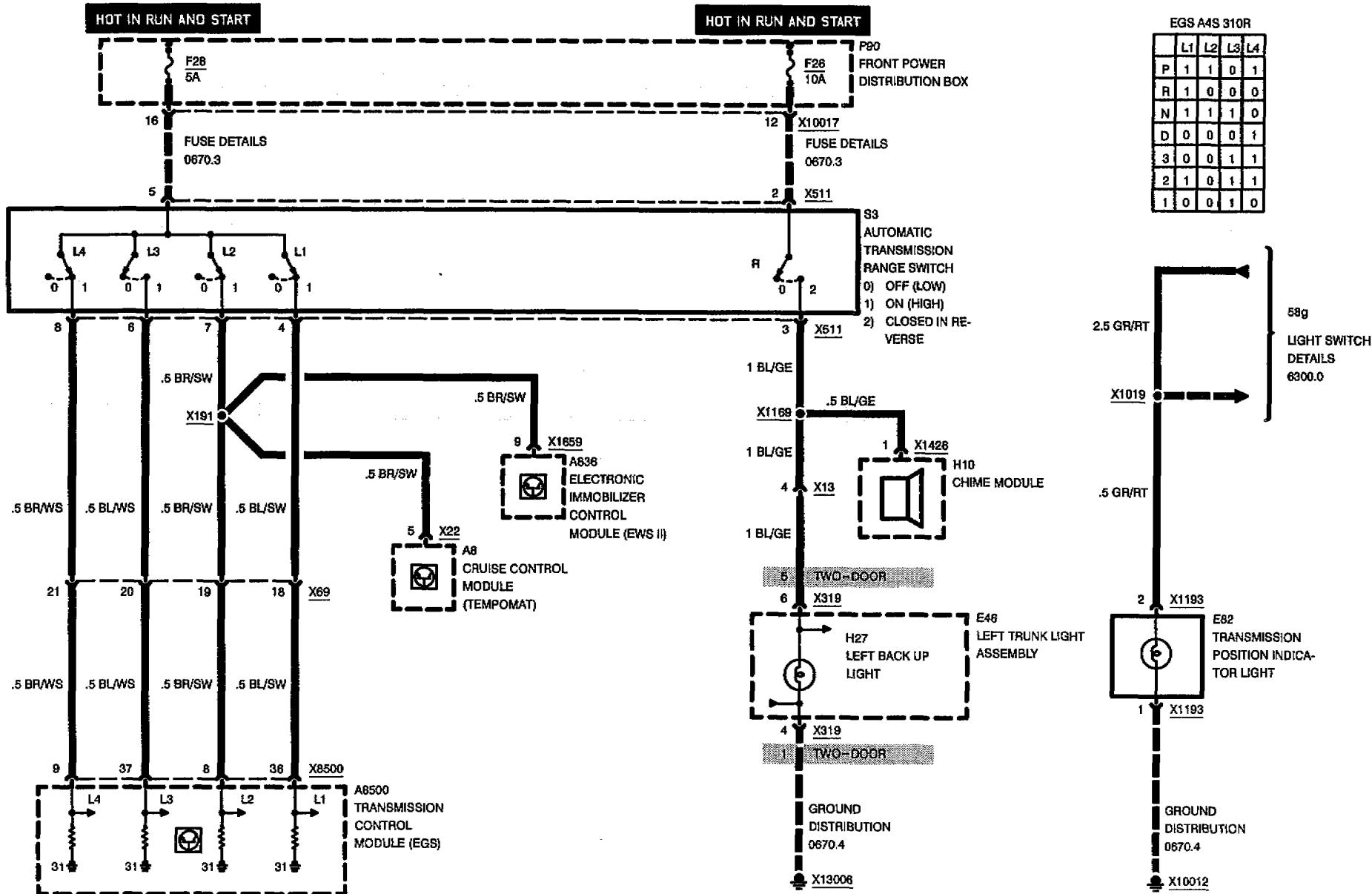


## POWER





## GEAR SELECTOR SWITCH

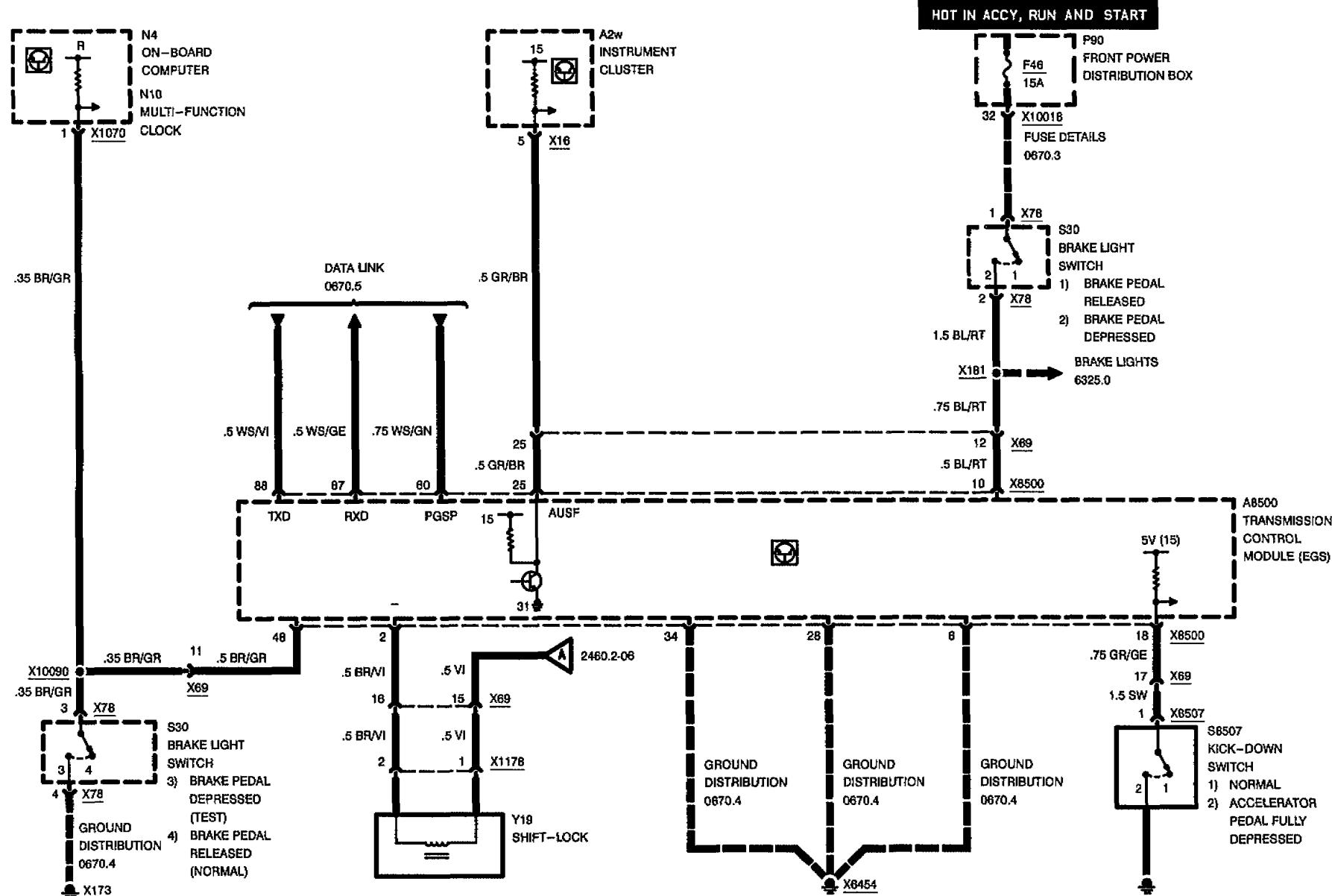


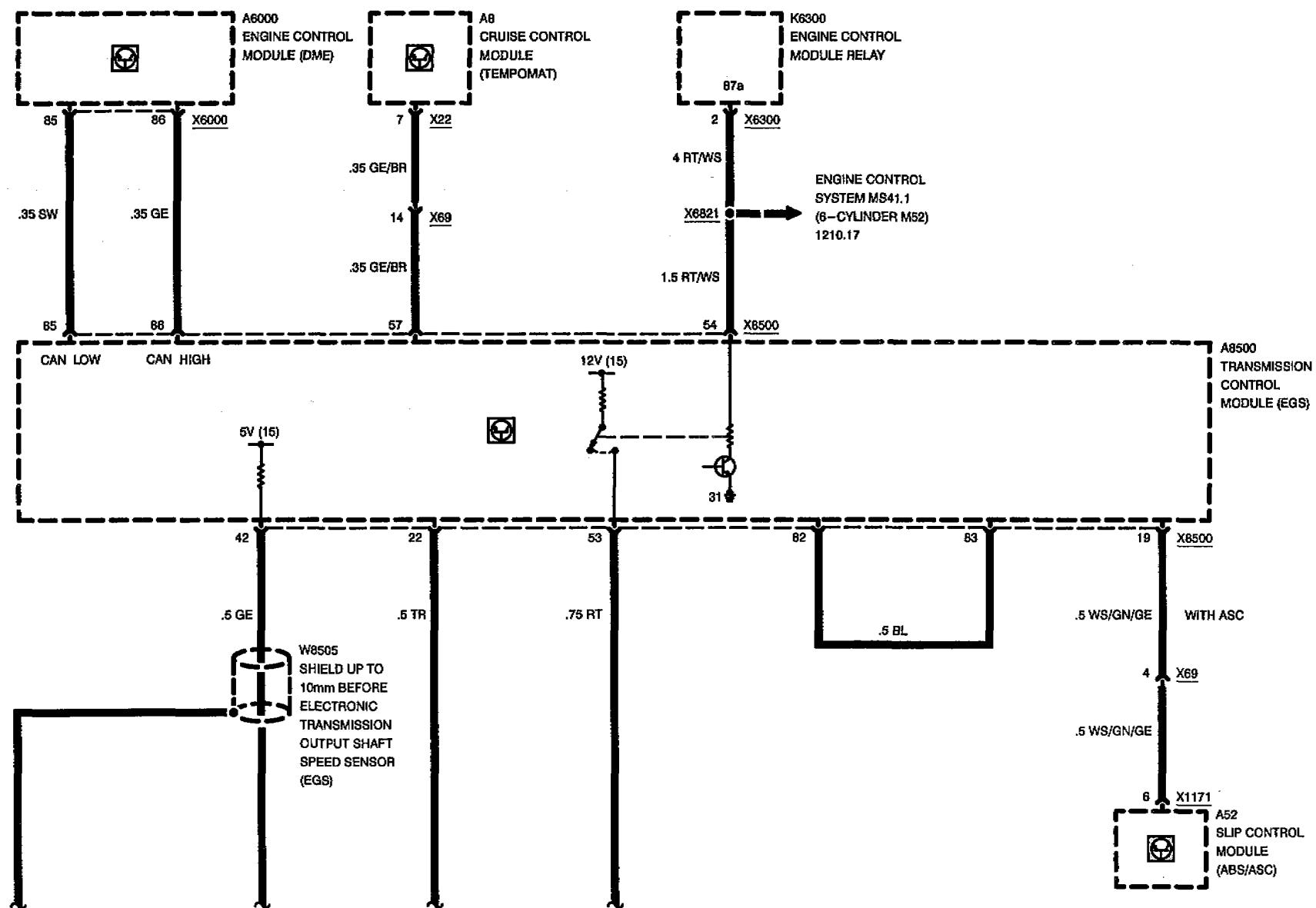


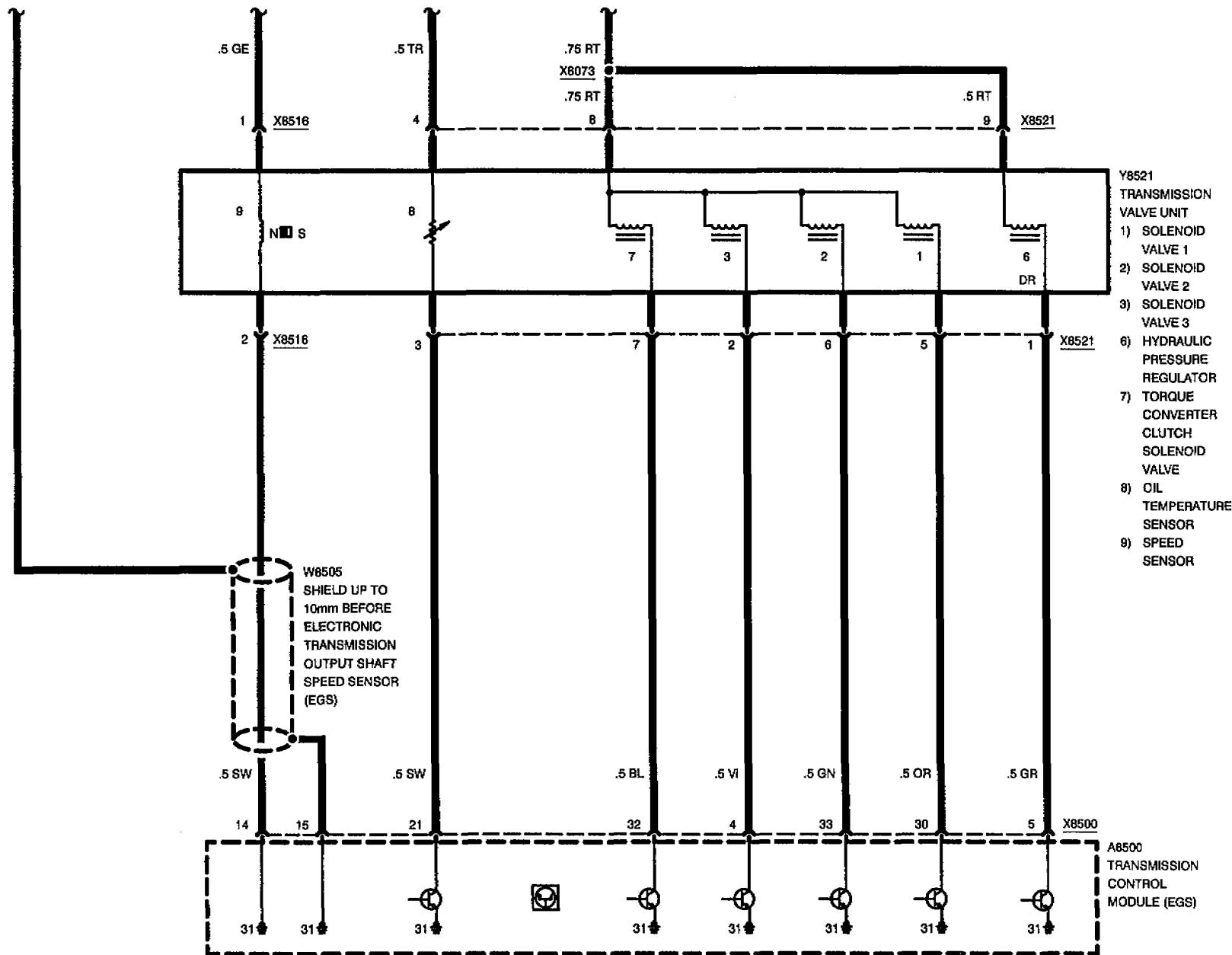
# ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

318is LATE PRODUCTION

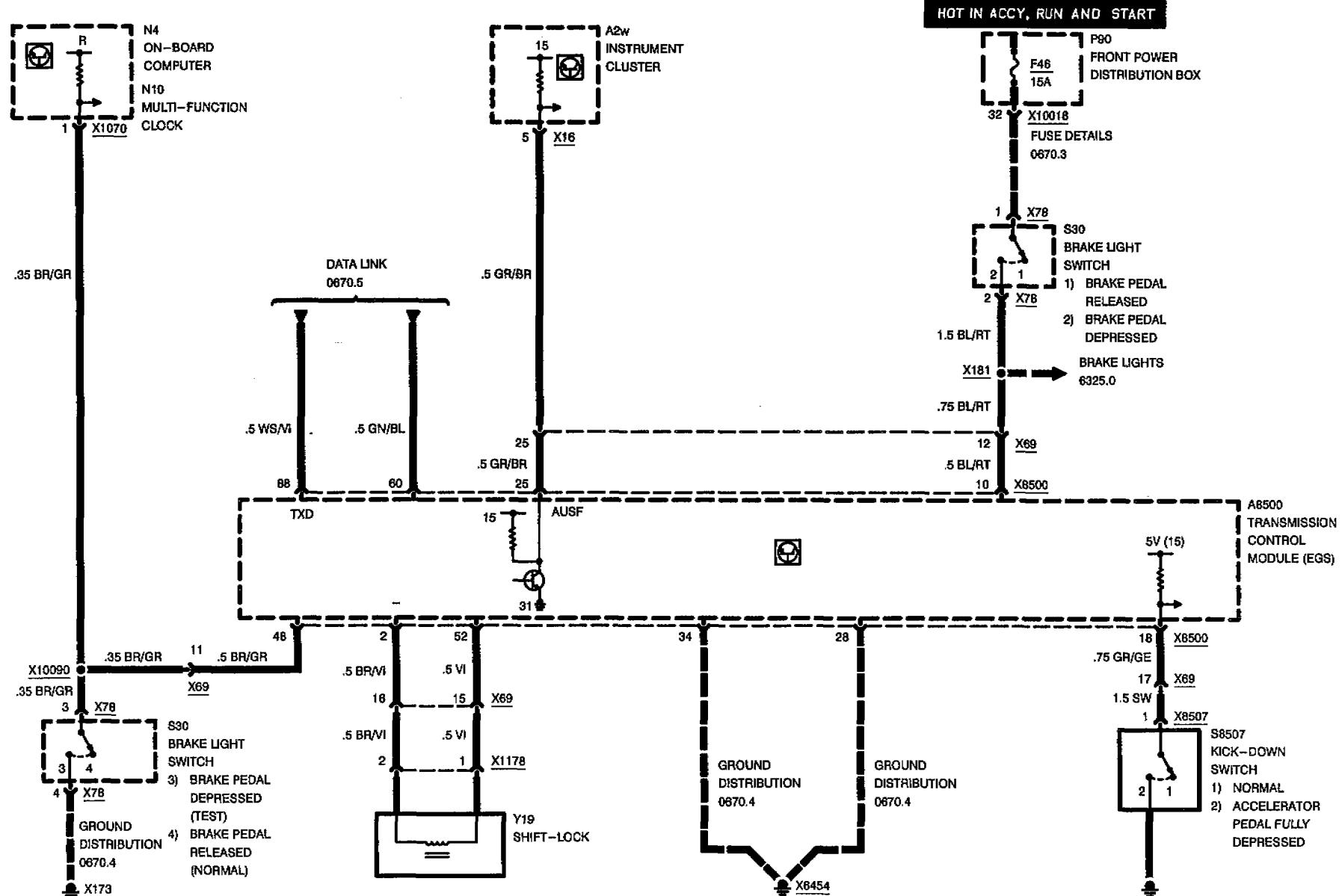
## SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH







#### **SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH**



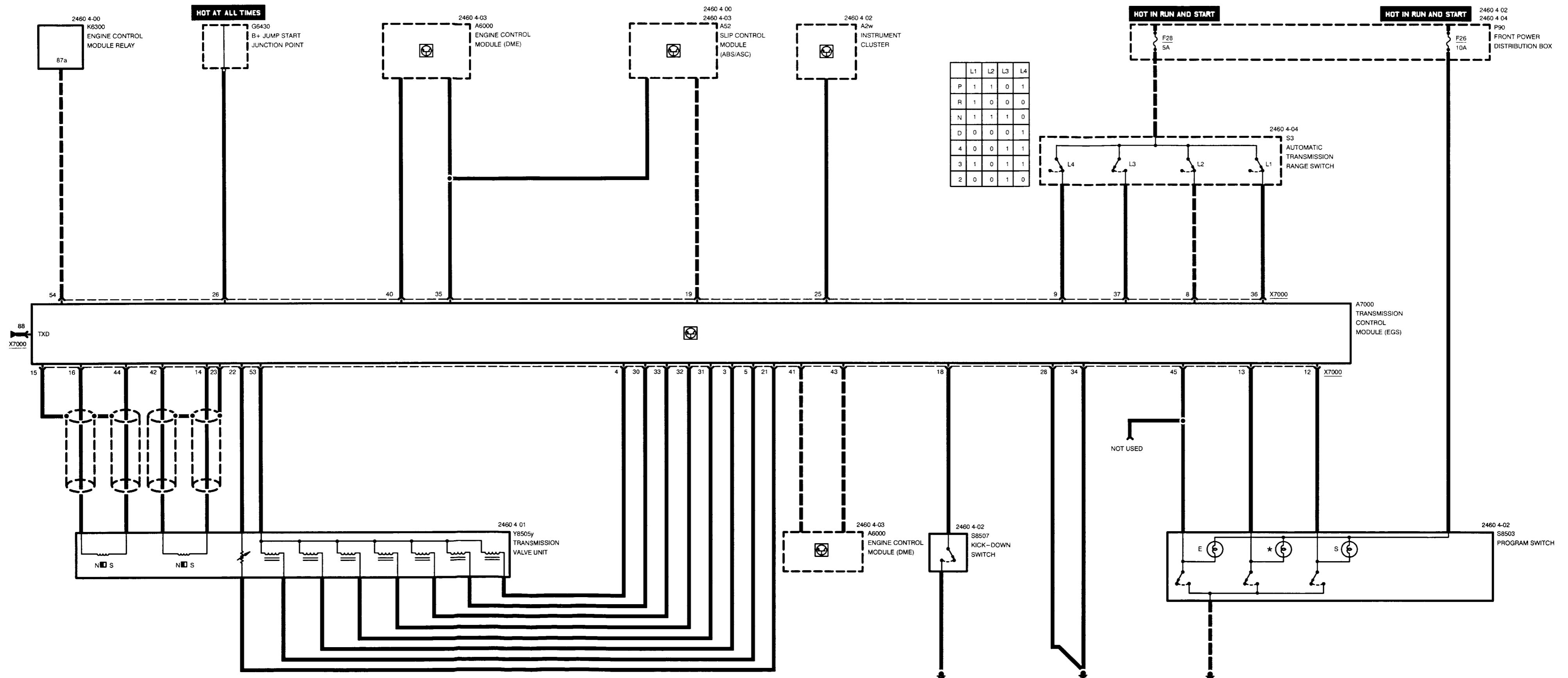
2460.2-12

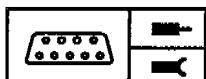
1996

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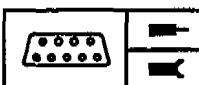


## Pin Assignments

### 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

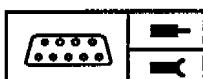
E = Input, A = Output, M = Ground



## 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	

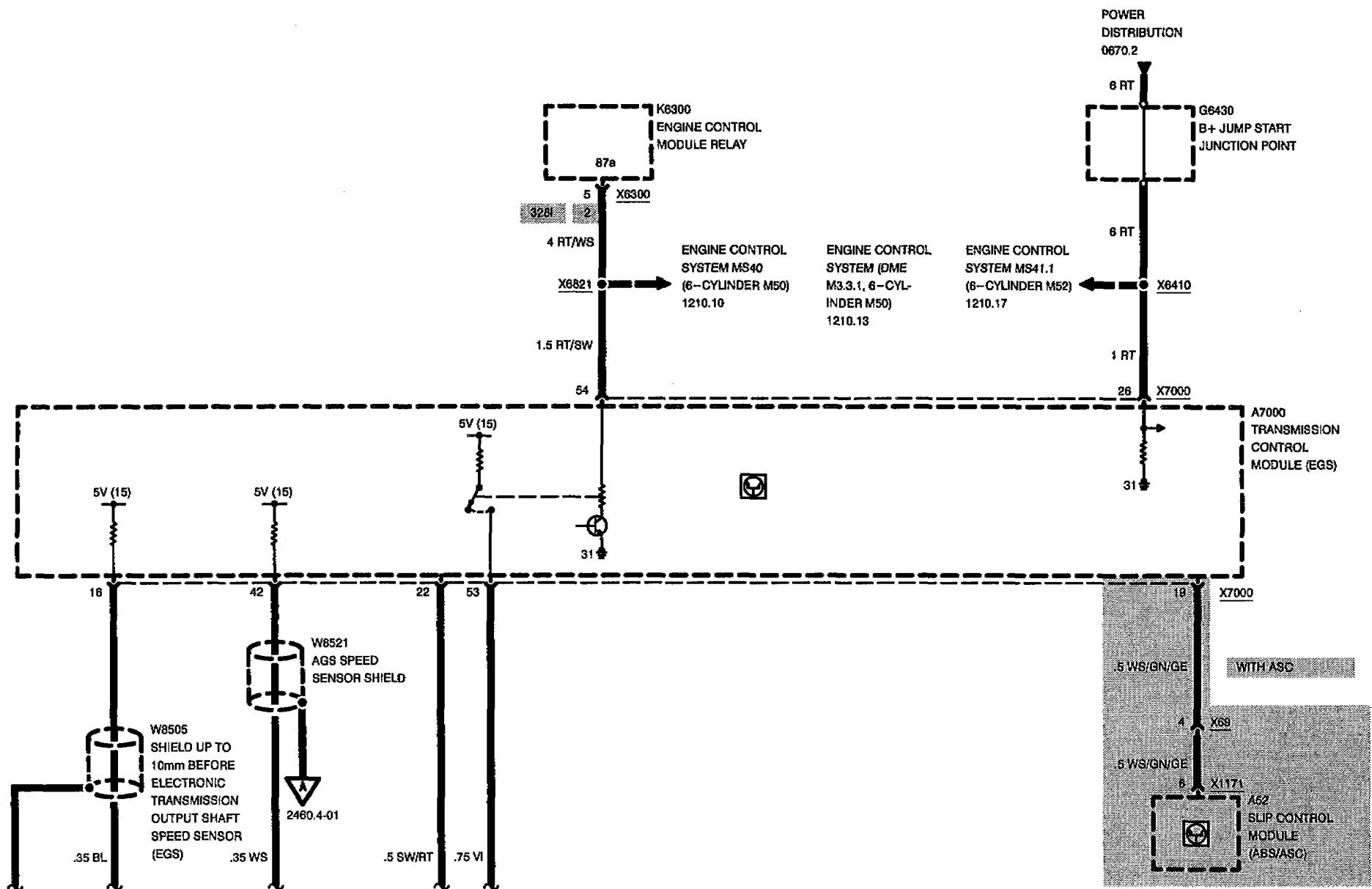
E = Input, A = Output, M = Ground



## 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

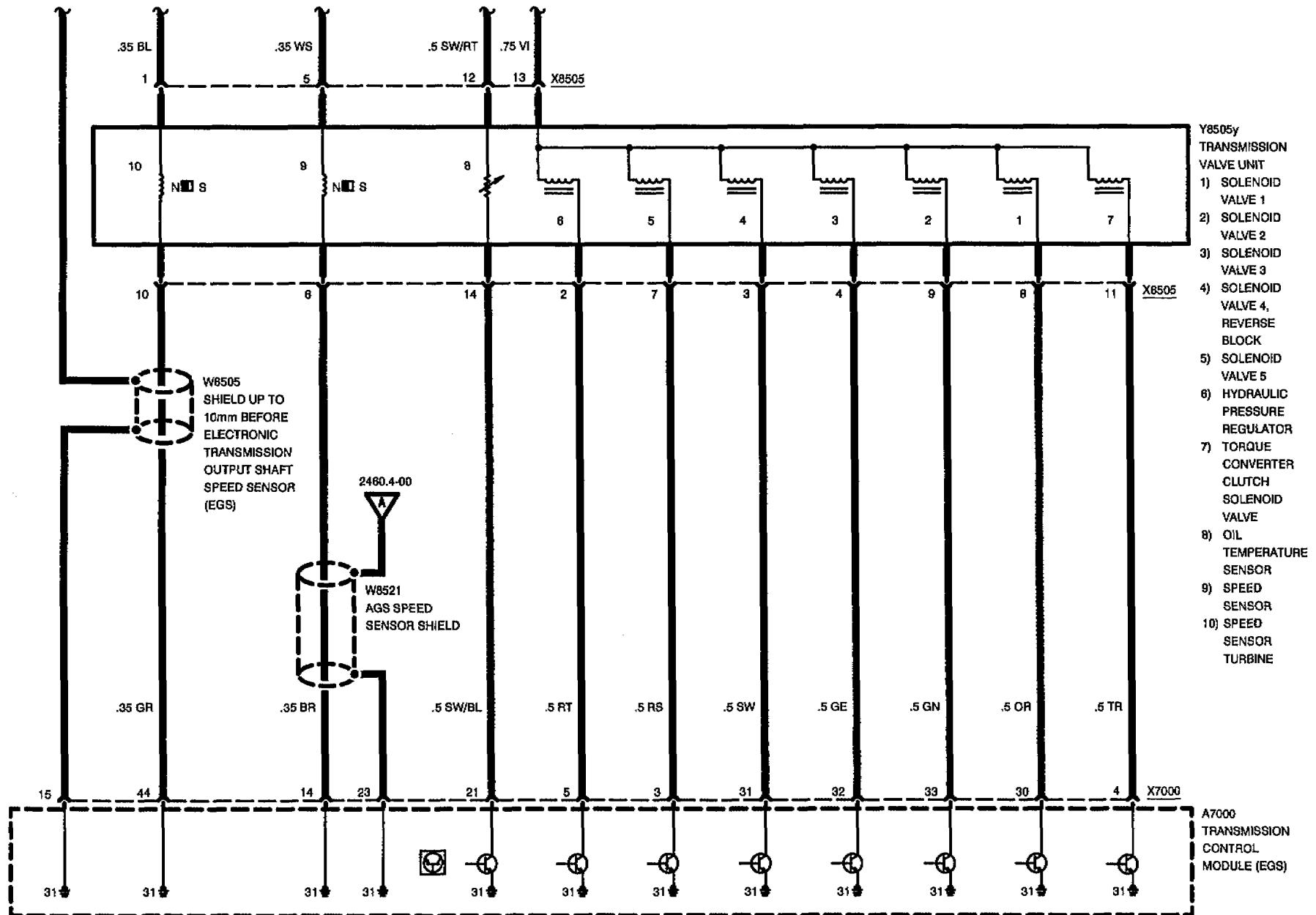
E = Input, A = Output, M = Ground

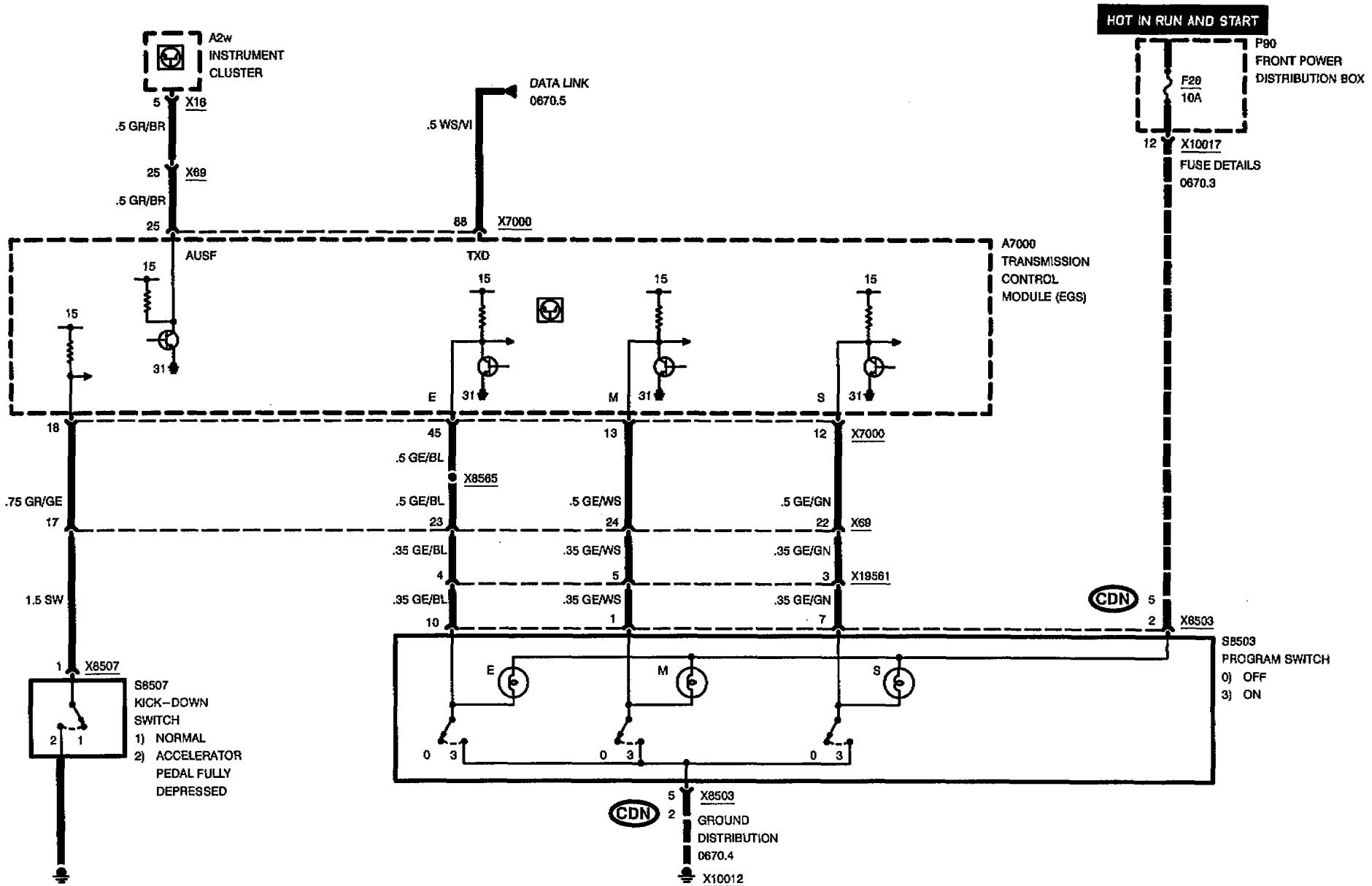


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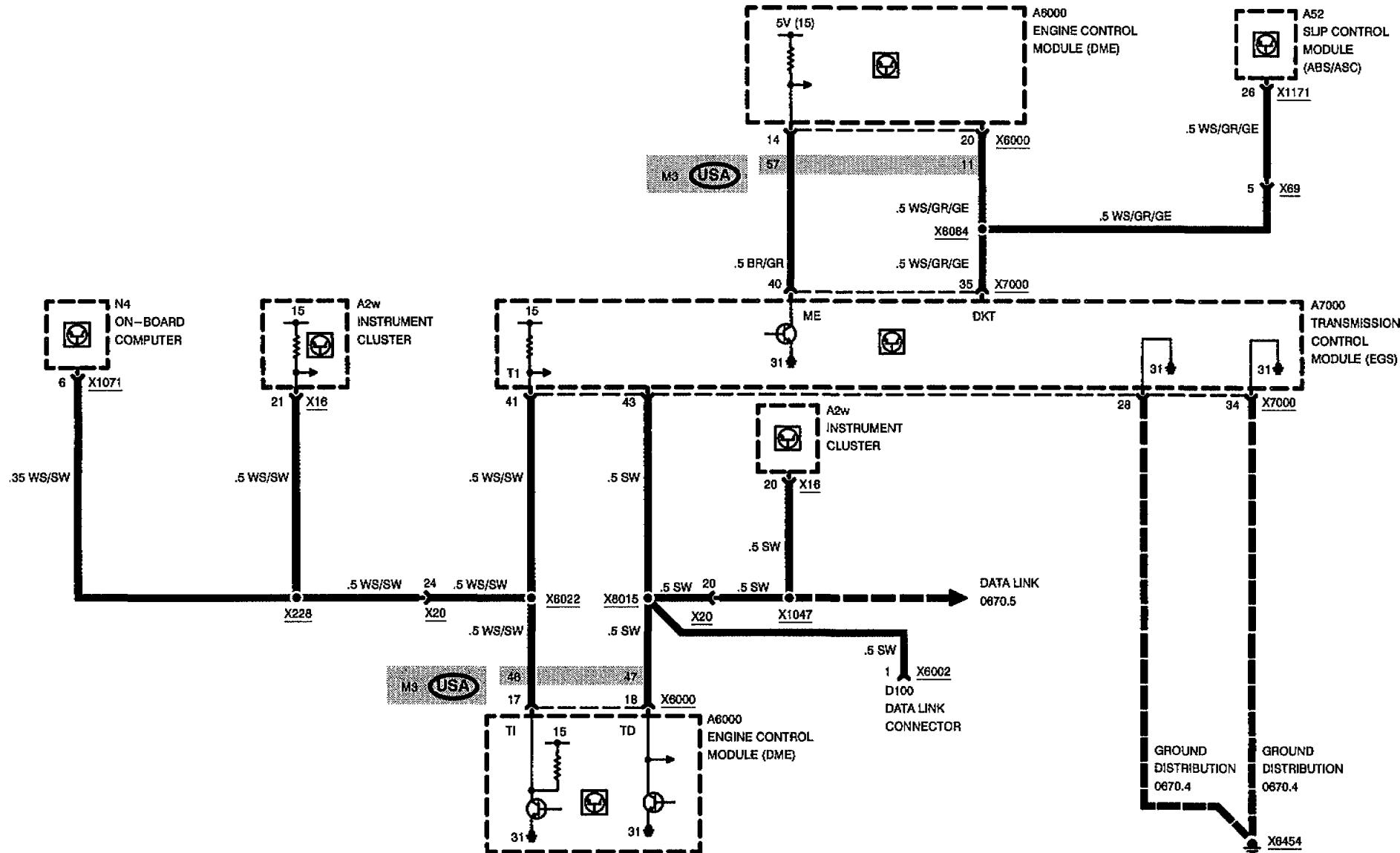
2460.4-01

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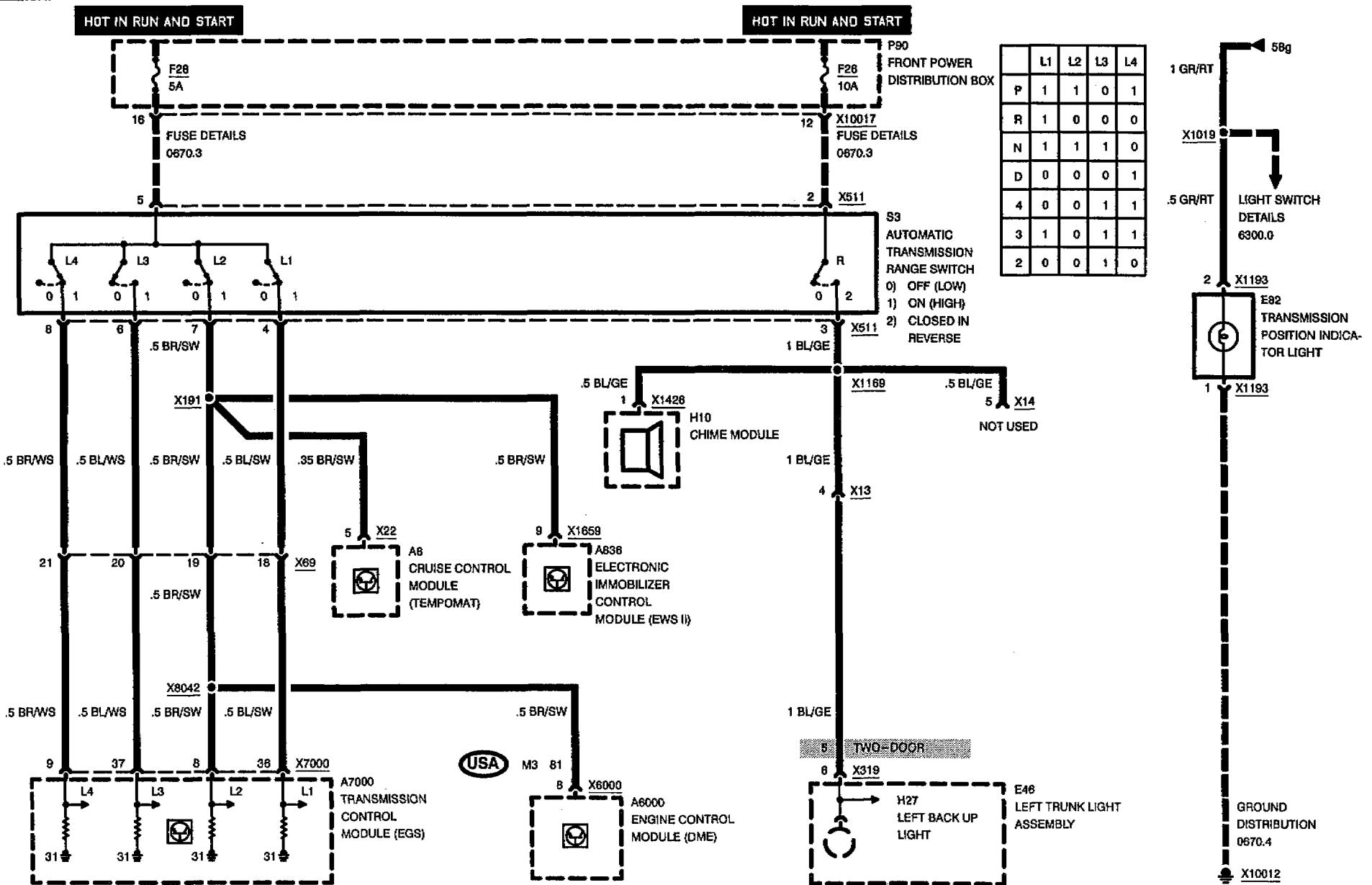




## ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

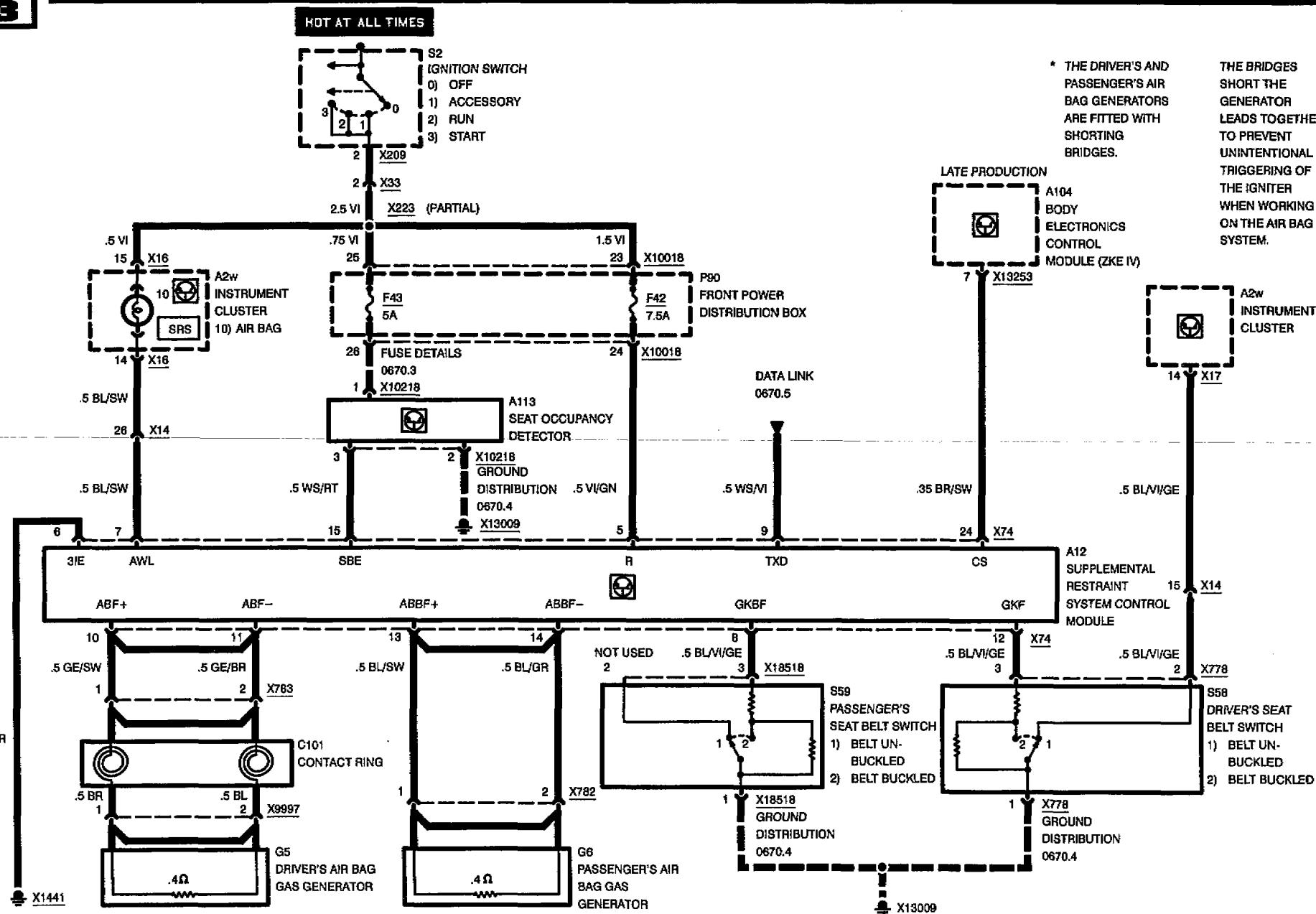


## ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)





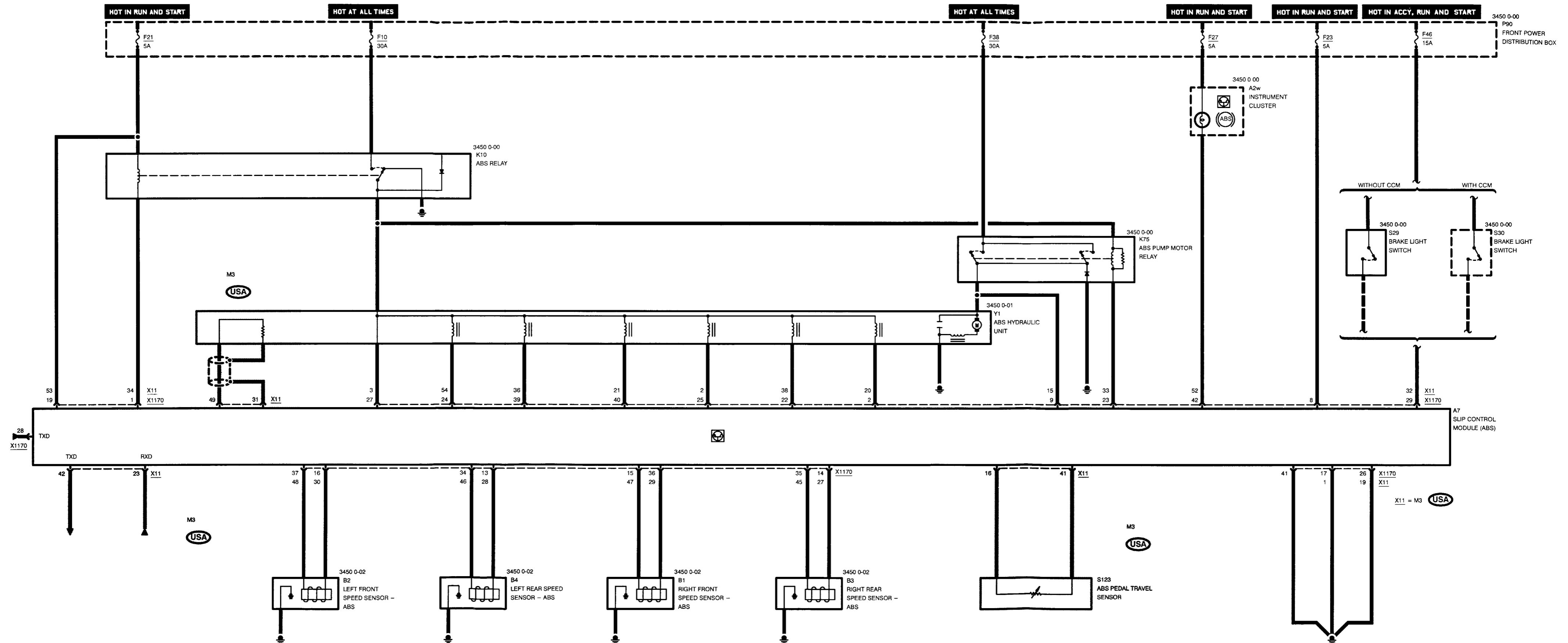
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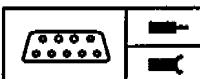


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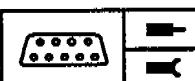


## Pin Assignments

### 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	

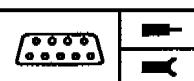
E = Input, A = Output, M = Ground



## 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

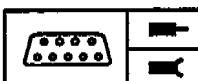


## Pin Assignments (M3 USA)

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))

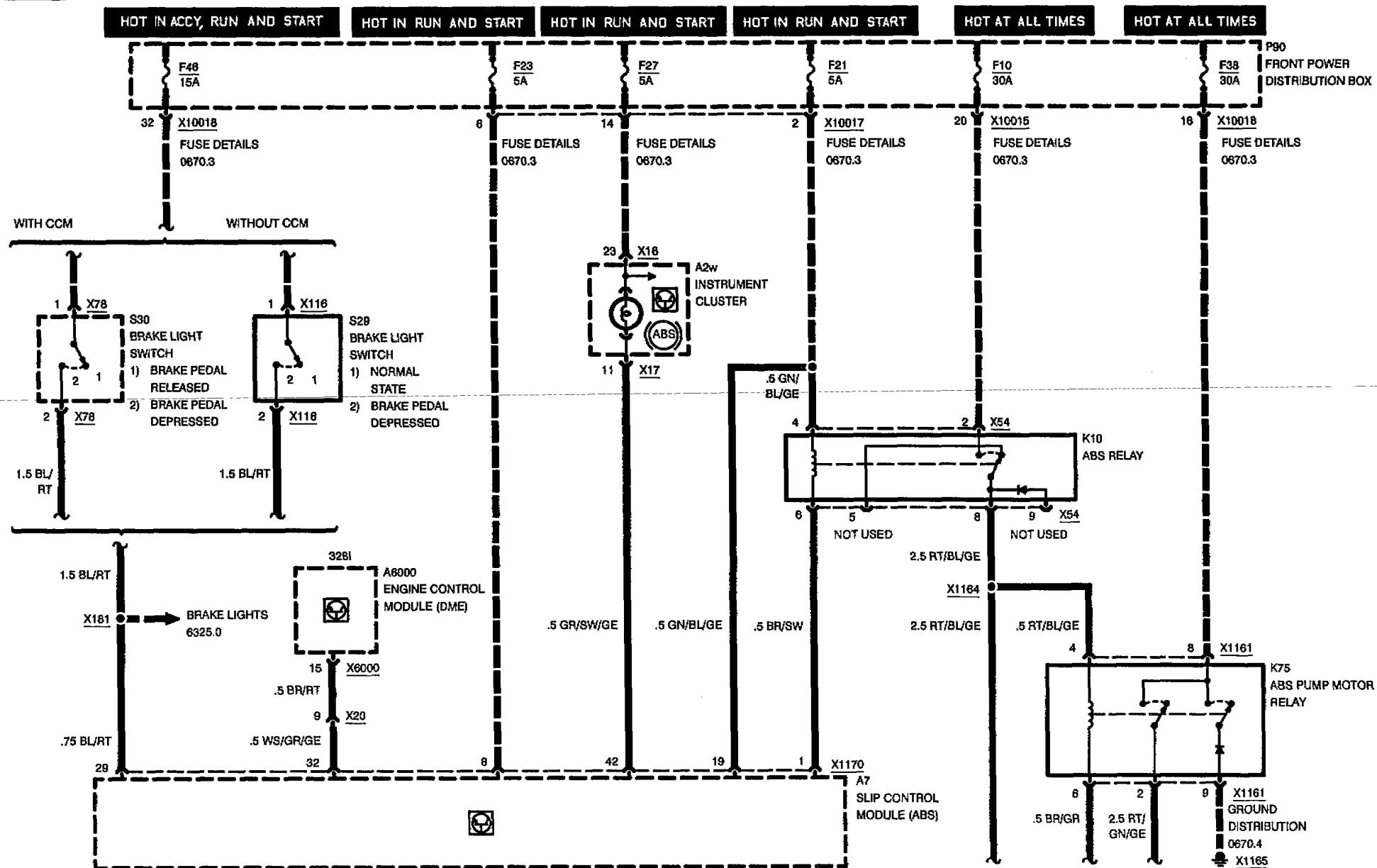
Pin	Type	Description/Function	Connection
31	A	Fuel injection quantity controller	ABS hydraulic unit
32	E	Brake light signal	Brake light switch
33	A	ABS pump motor relay control	ABS pump motor relay
34	A	ABS relay control	ABS relay
35		Not used	
36	A	Rear axle outlet valve control	ABS hydraulic unit
37		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

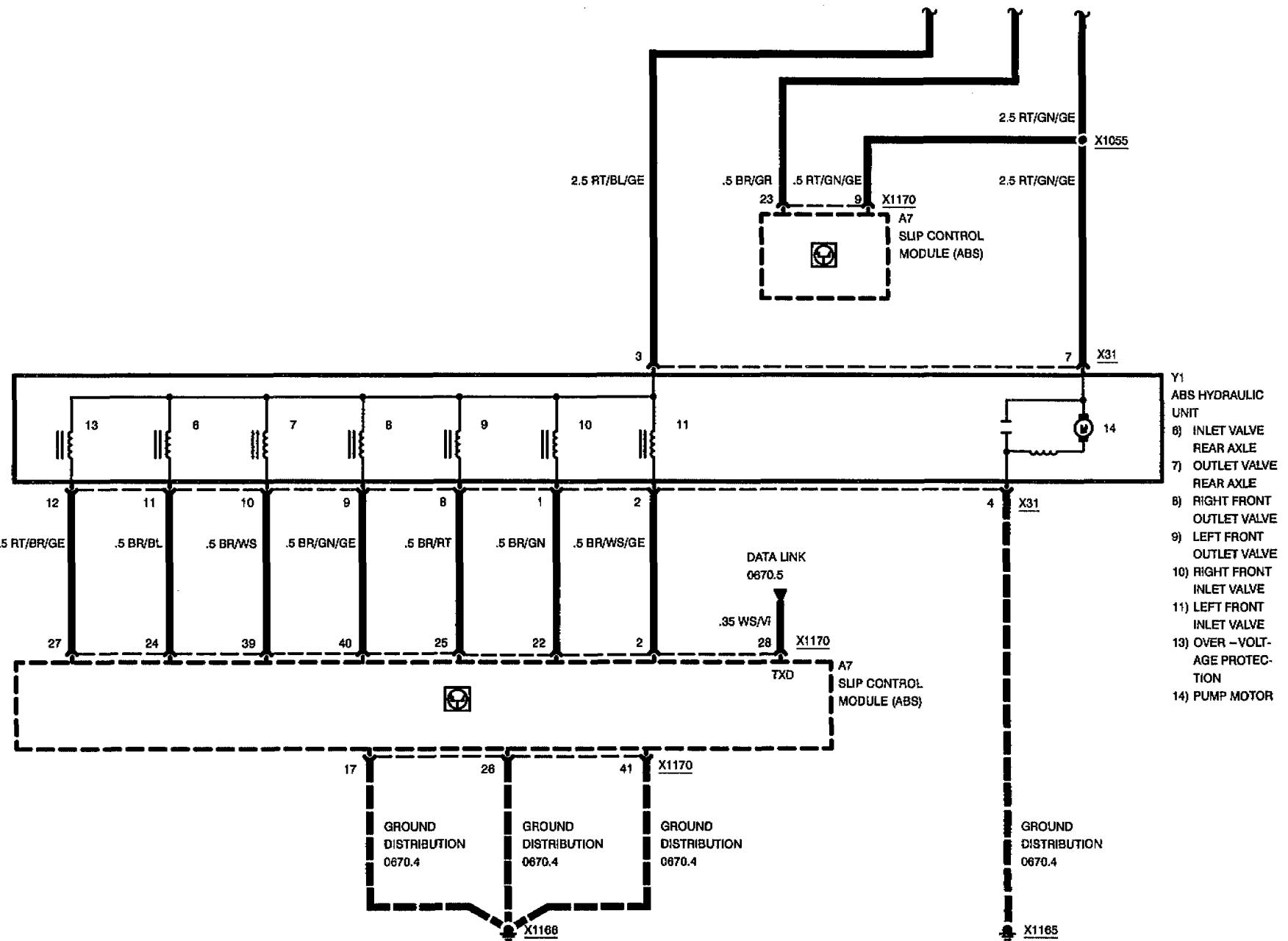
E = Input, A = Output, M = Ground

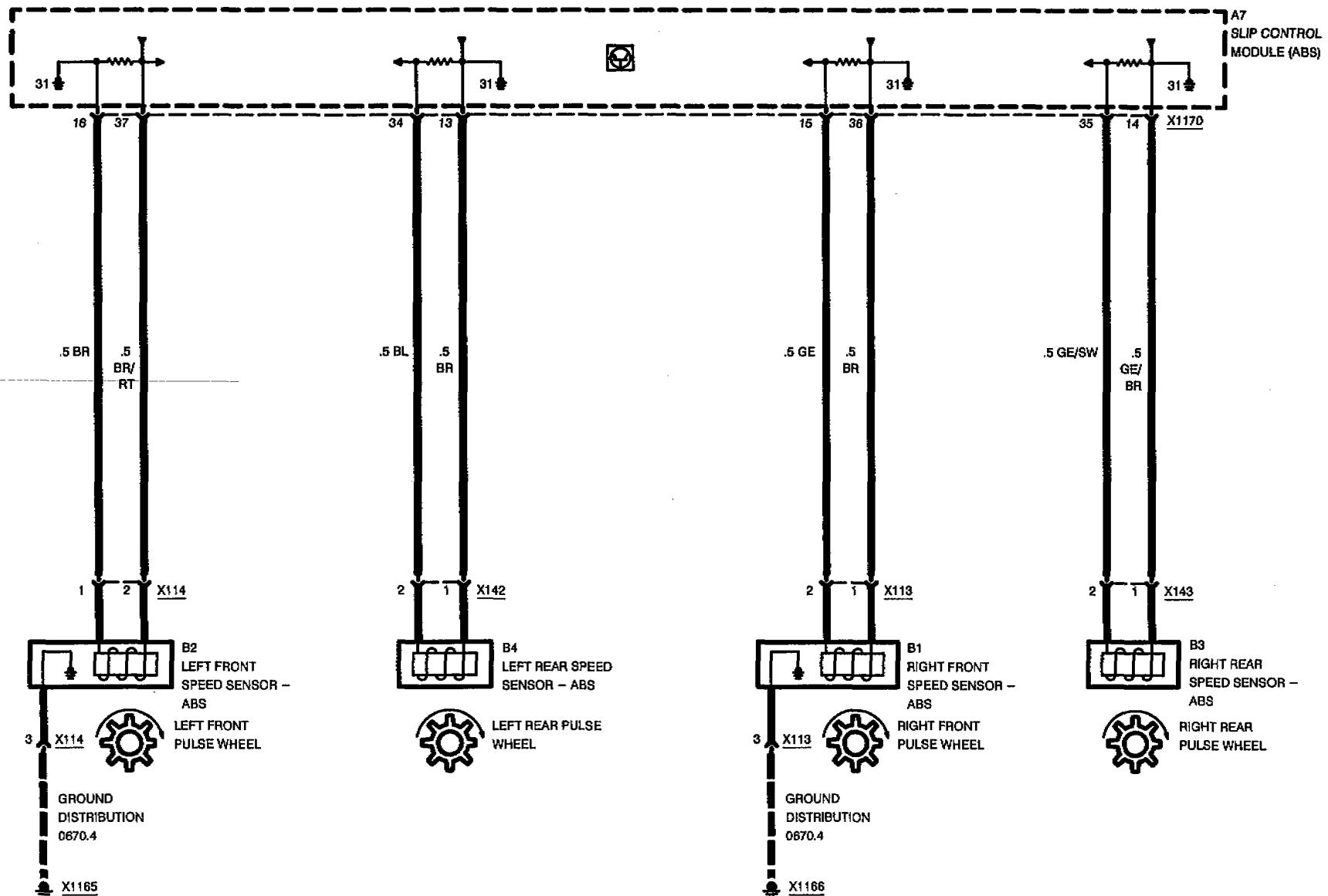


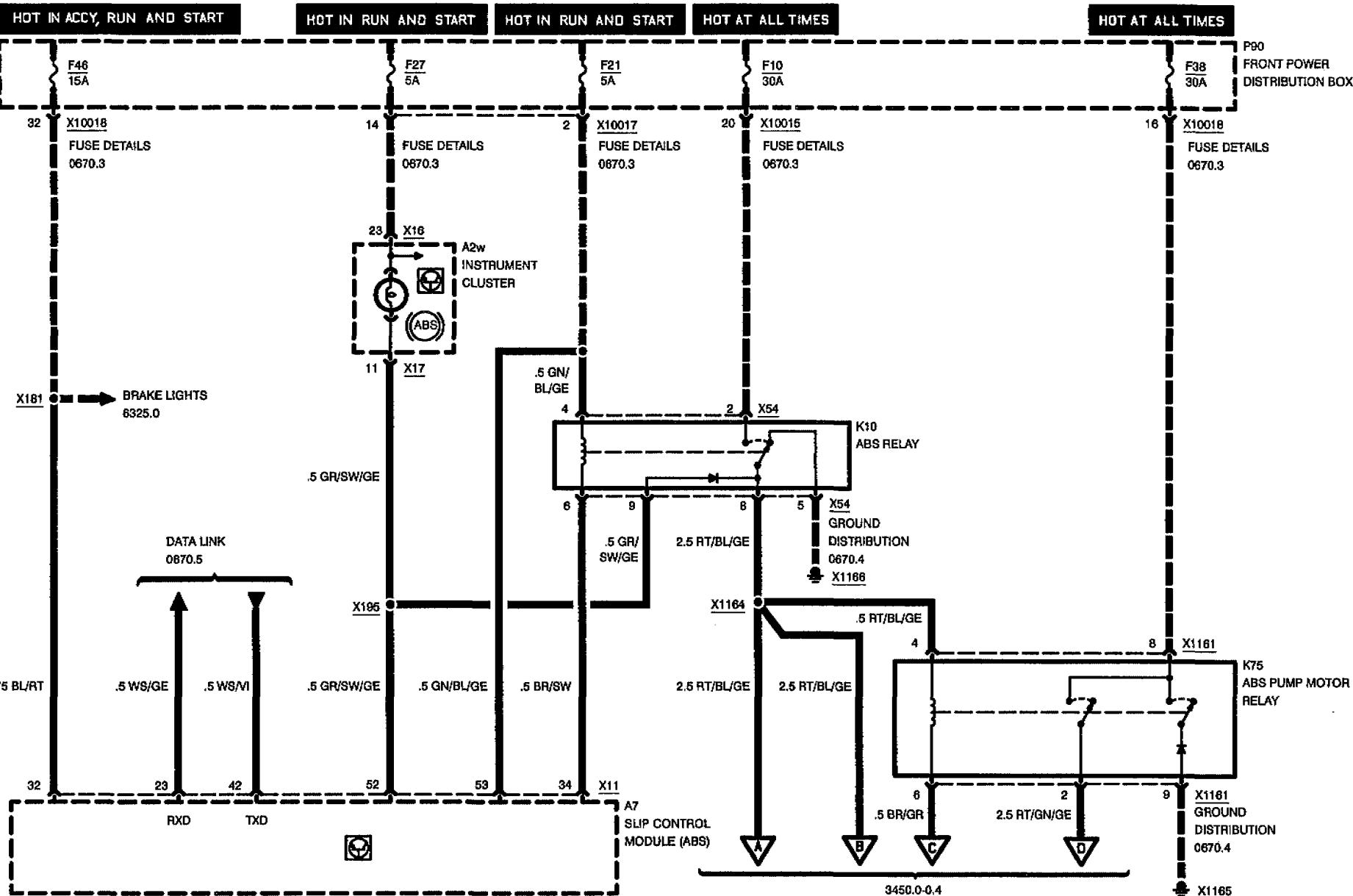
3450.0

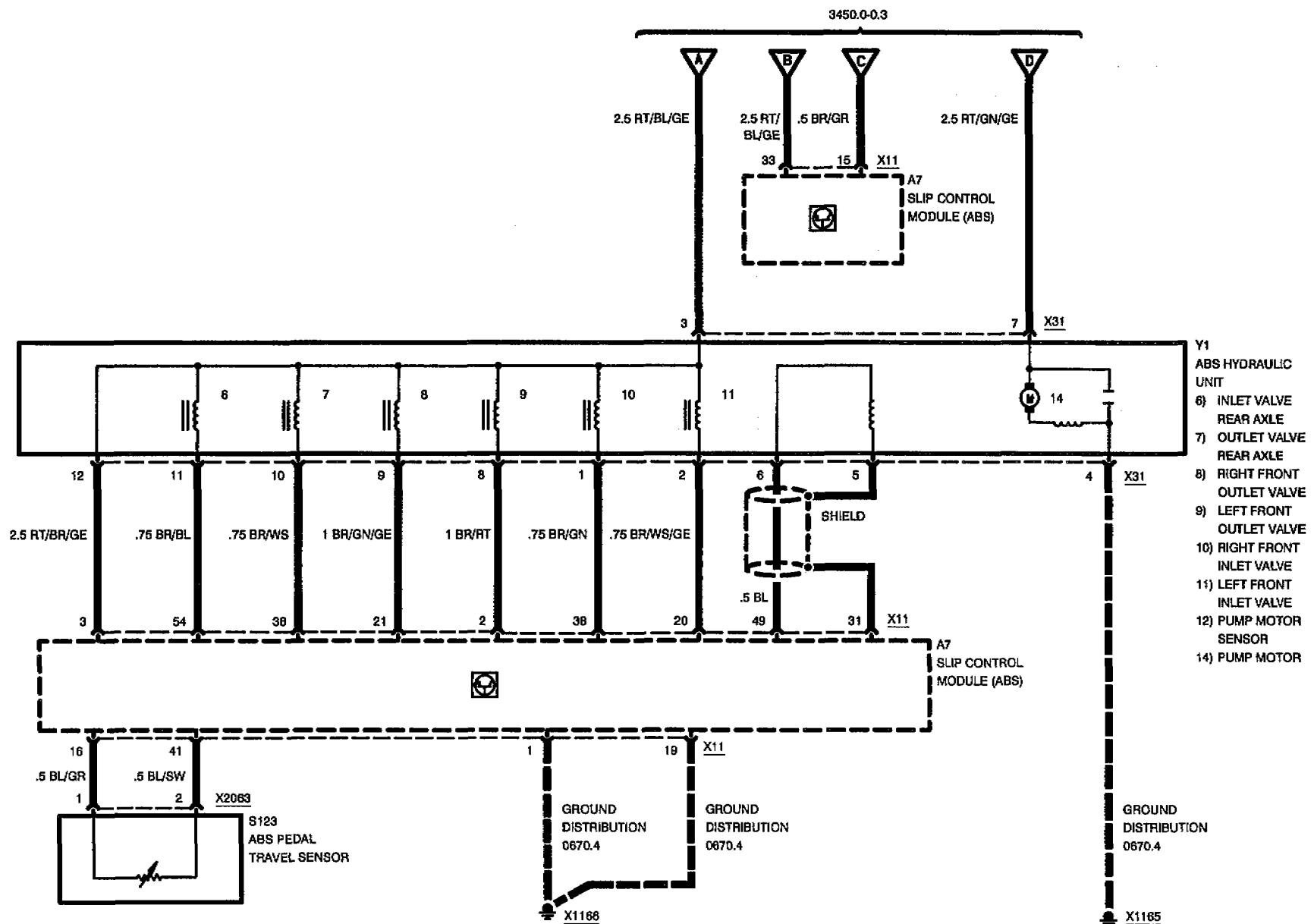
## SLIP CONTROL (ABS)

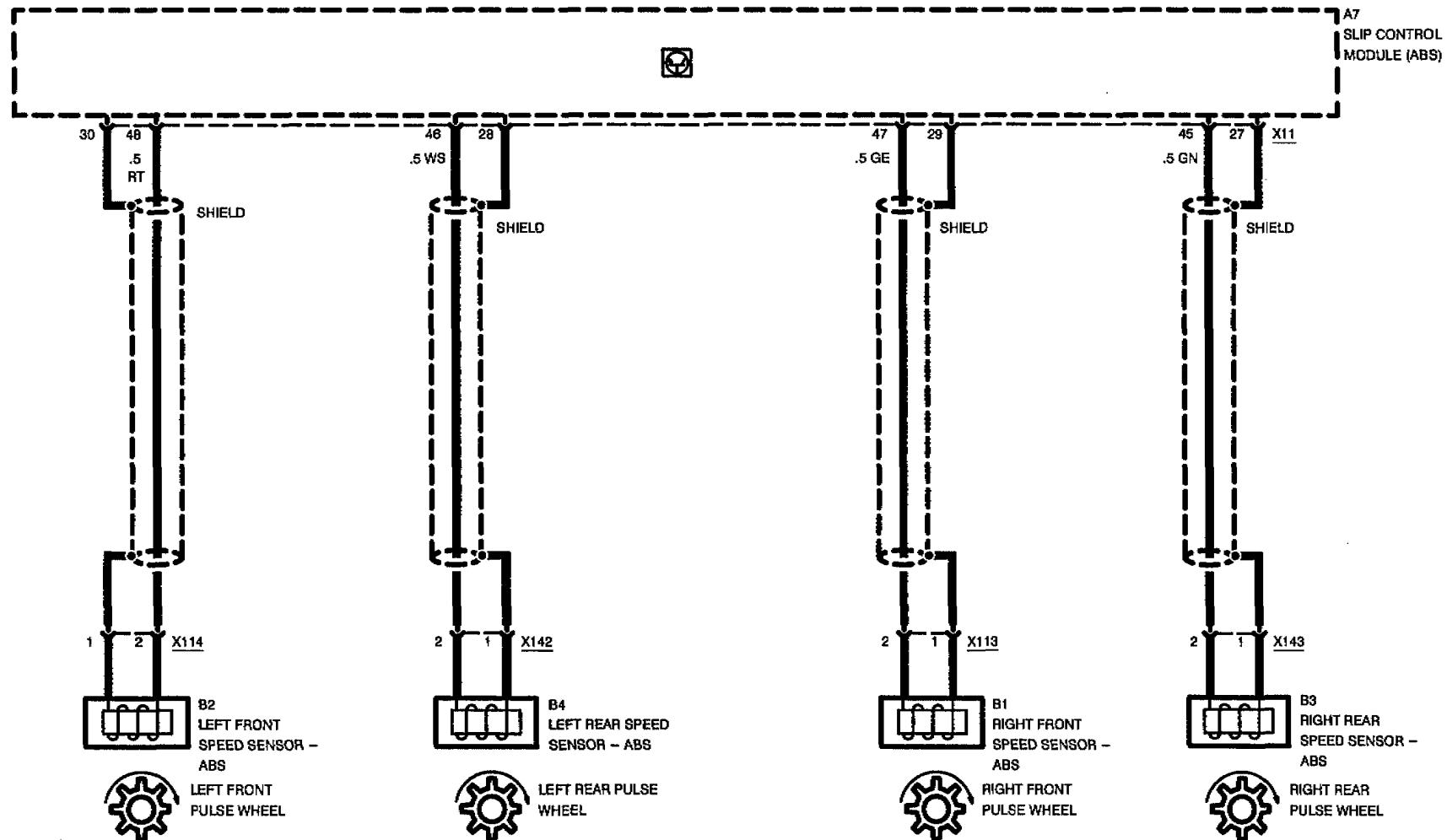








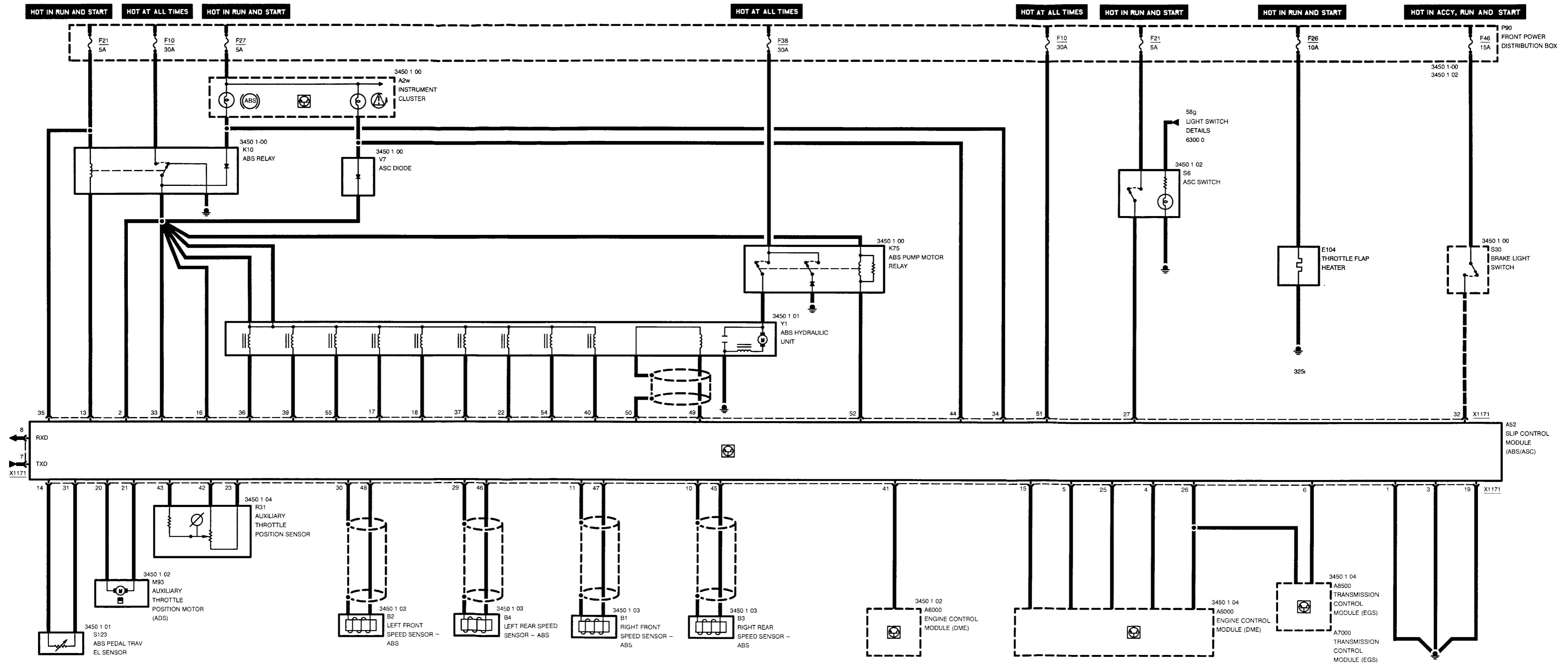




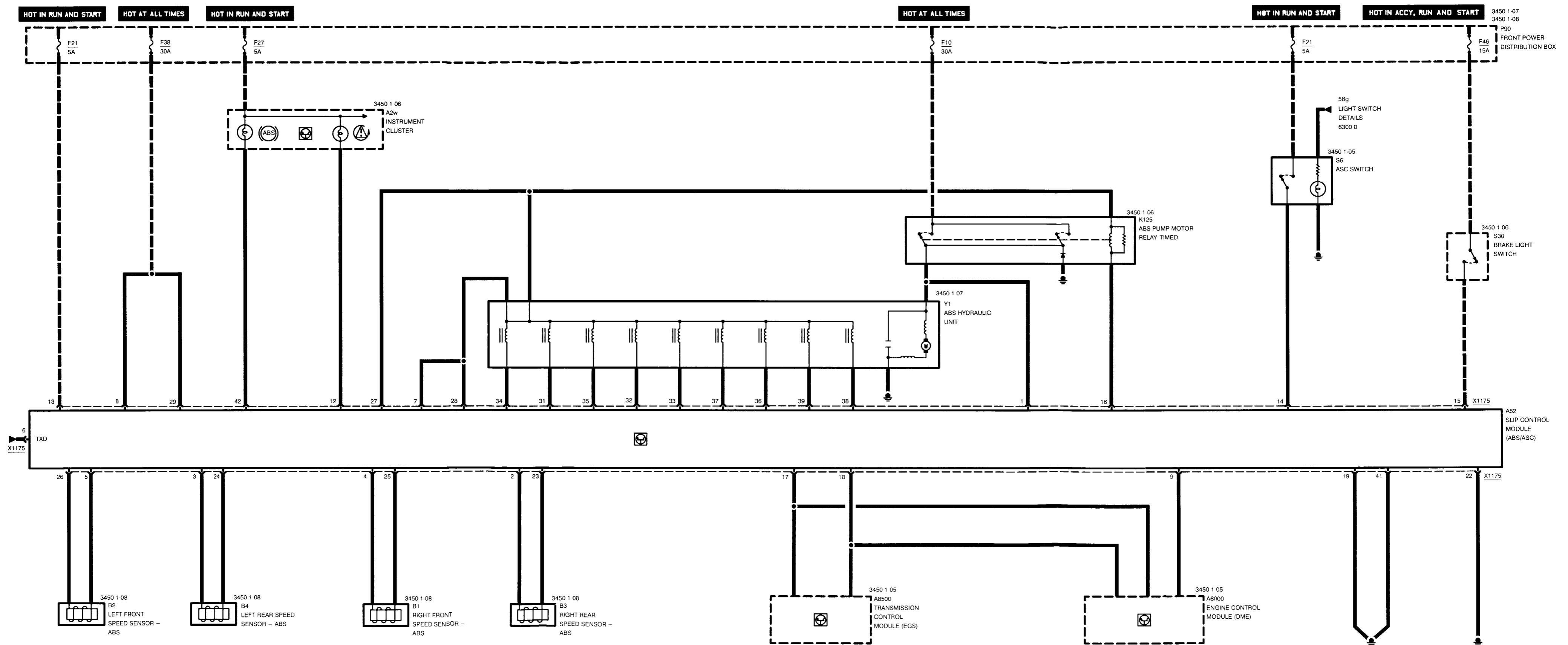


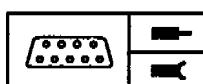
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325i, 328i, M3



318is



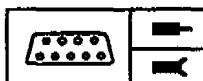


## Pin Assignments (325i, 328i, M3)

X1171

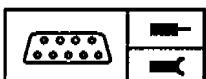
Pin	Type	Description/Function	Connection
1	M	Ground	Ground
2	E	Battery voltage	ABS relay
3	M	Ground, module	Ground
4	E	Ignition cut-off signal	DME module
5	A	EML-signal	DME module
6	A	Transmission influence	EGS module
7	E/A	TxD signal	Diagnostic link
8	A	RxD signal	Diagnostic link
9		Not used	
10	A	Sensor 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 ground	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

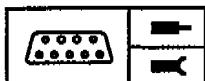


## Pin Assignments (318is)

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 ground	Left rear speed sensor - ABS
4	A	Sensor ground	Right front speed sensor - ABS
5	A	Sensor ground	Left 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



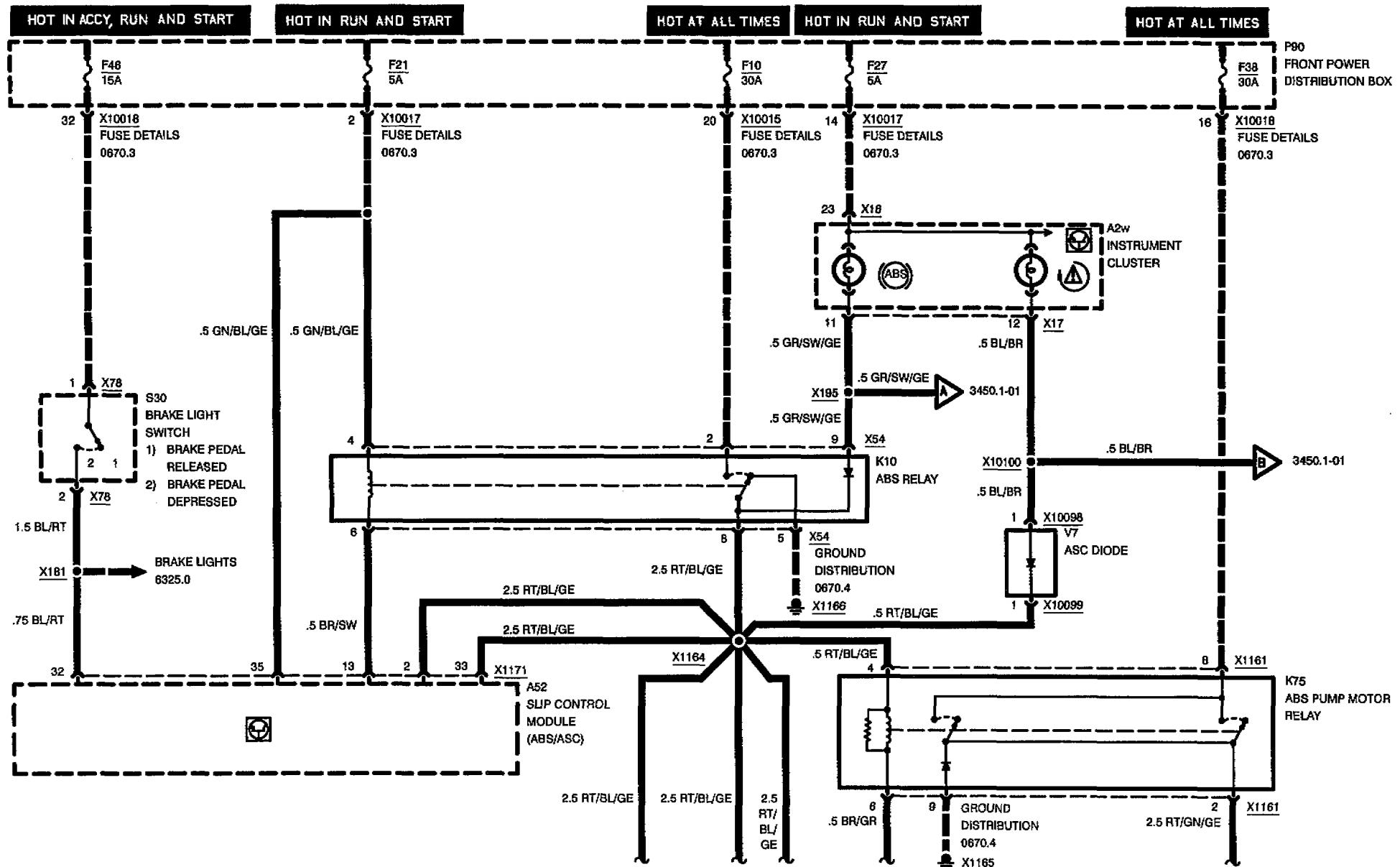
## Pin Assignments (318is)

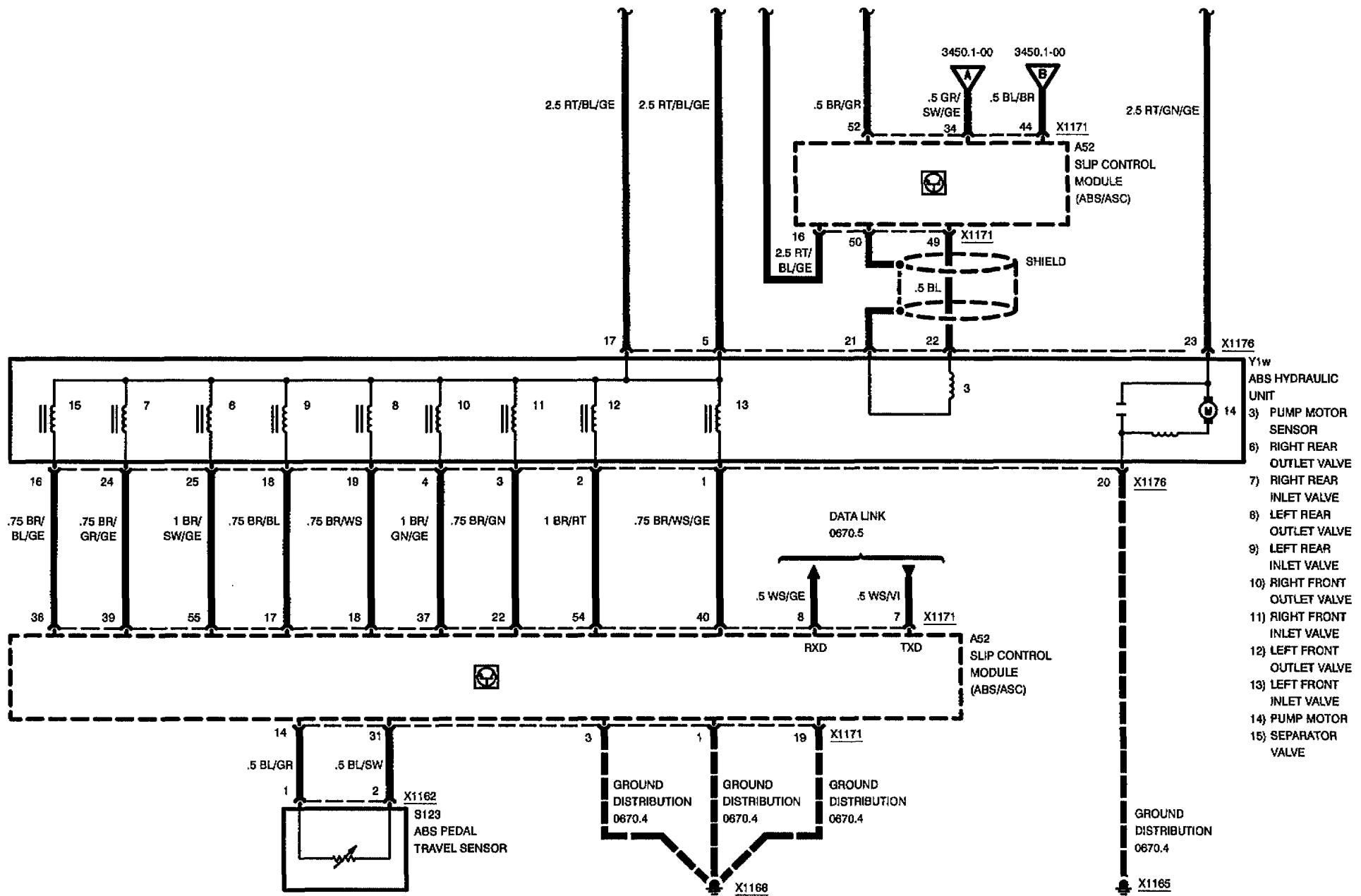
Pin	Type	Description/Function	Connection
31	A	Separator valve	ABS hydraulic unit
32	A	Left rear inlet valve	ABS hydraulic unit
33	A	Left rear outlet valve	ABS hydraulic unit
34	A	Right rear inlet valve	ABS hydraulic unit
35	A	Right rear outlet valve	ABS hydraulic unit
36	A	Left front outlet valve	ABS 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

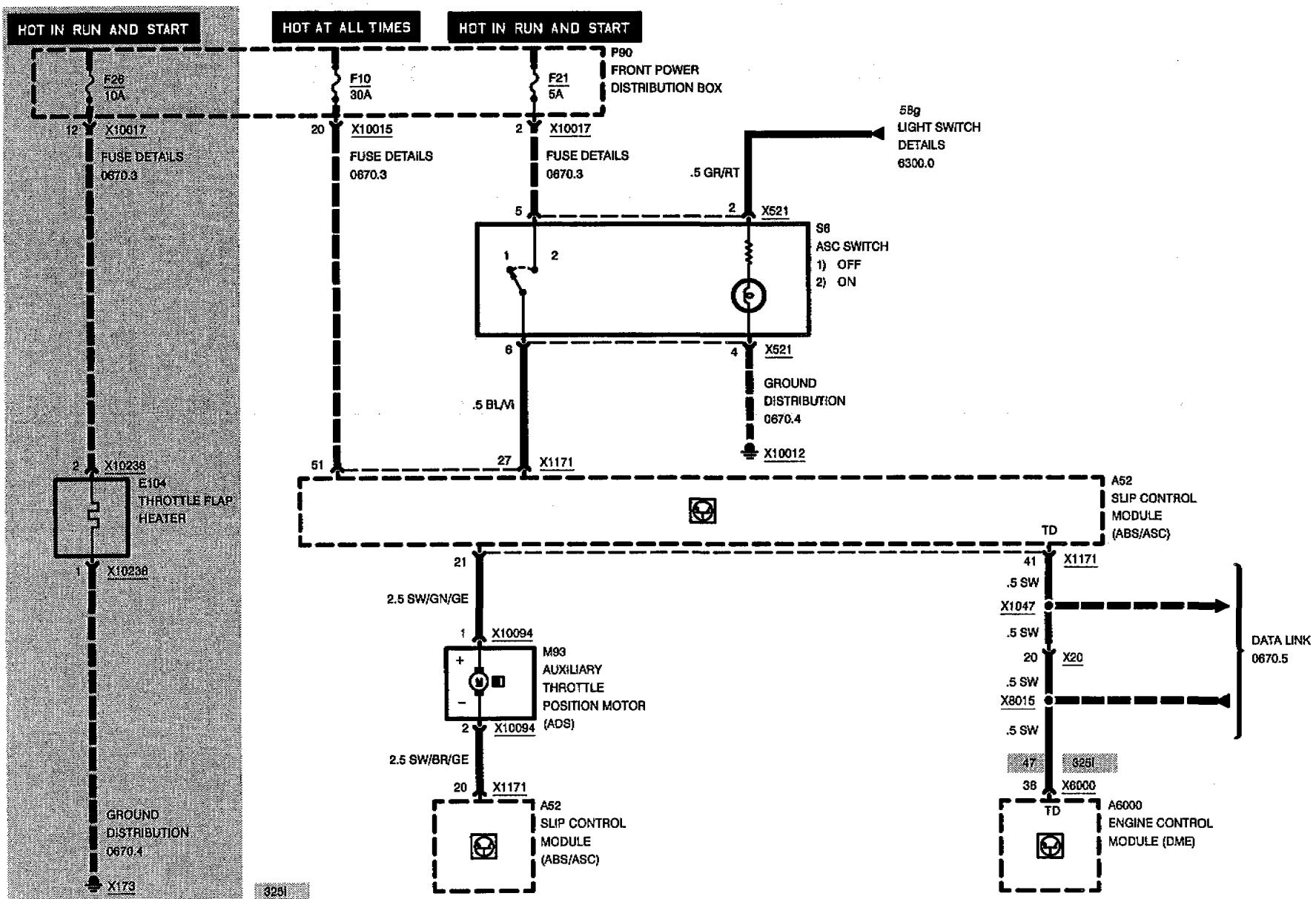
E = Input, A = Output, M = Ground



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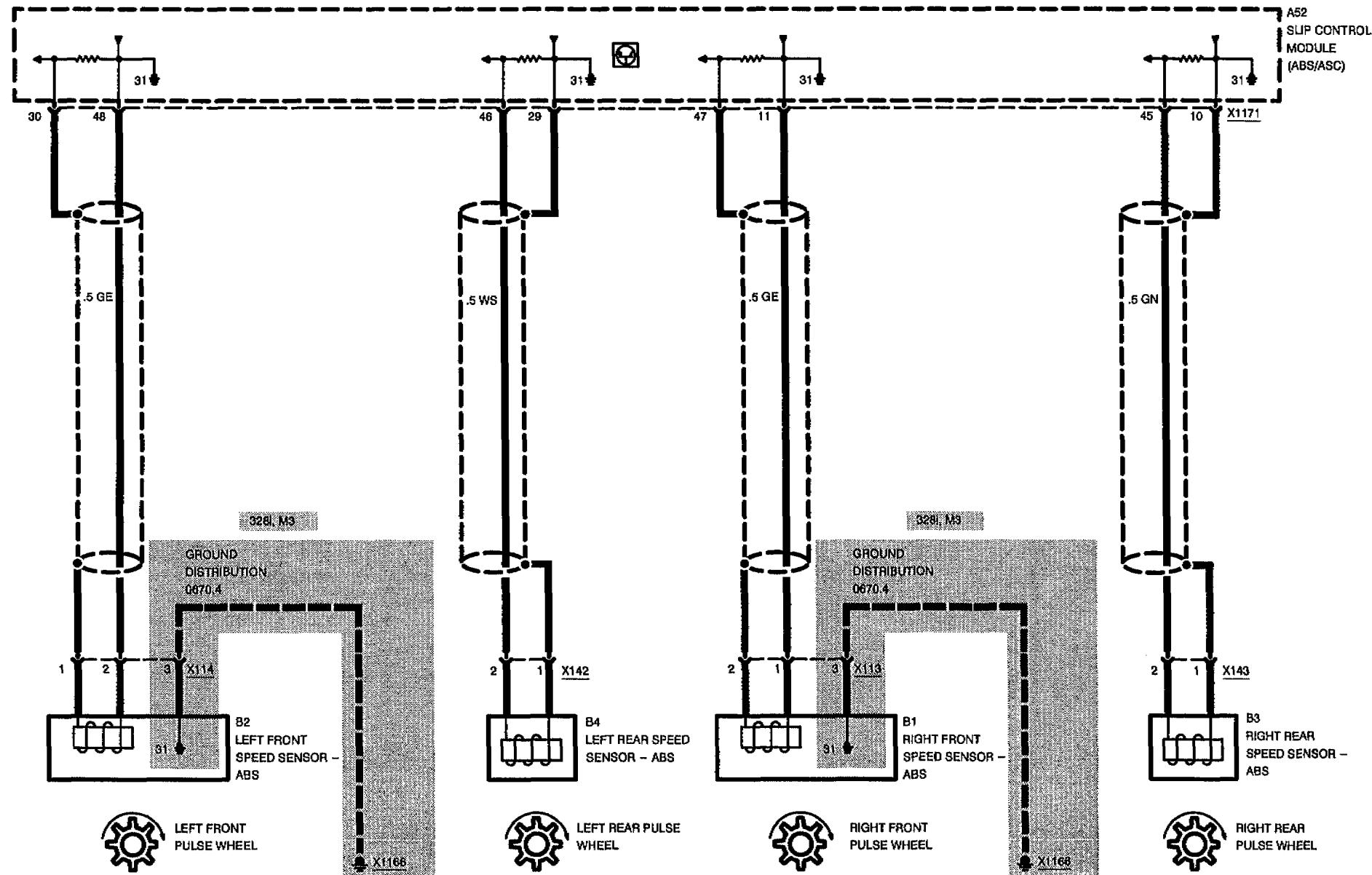


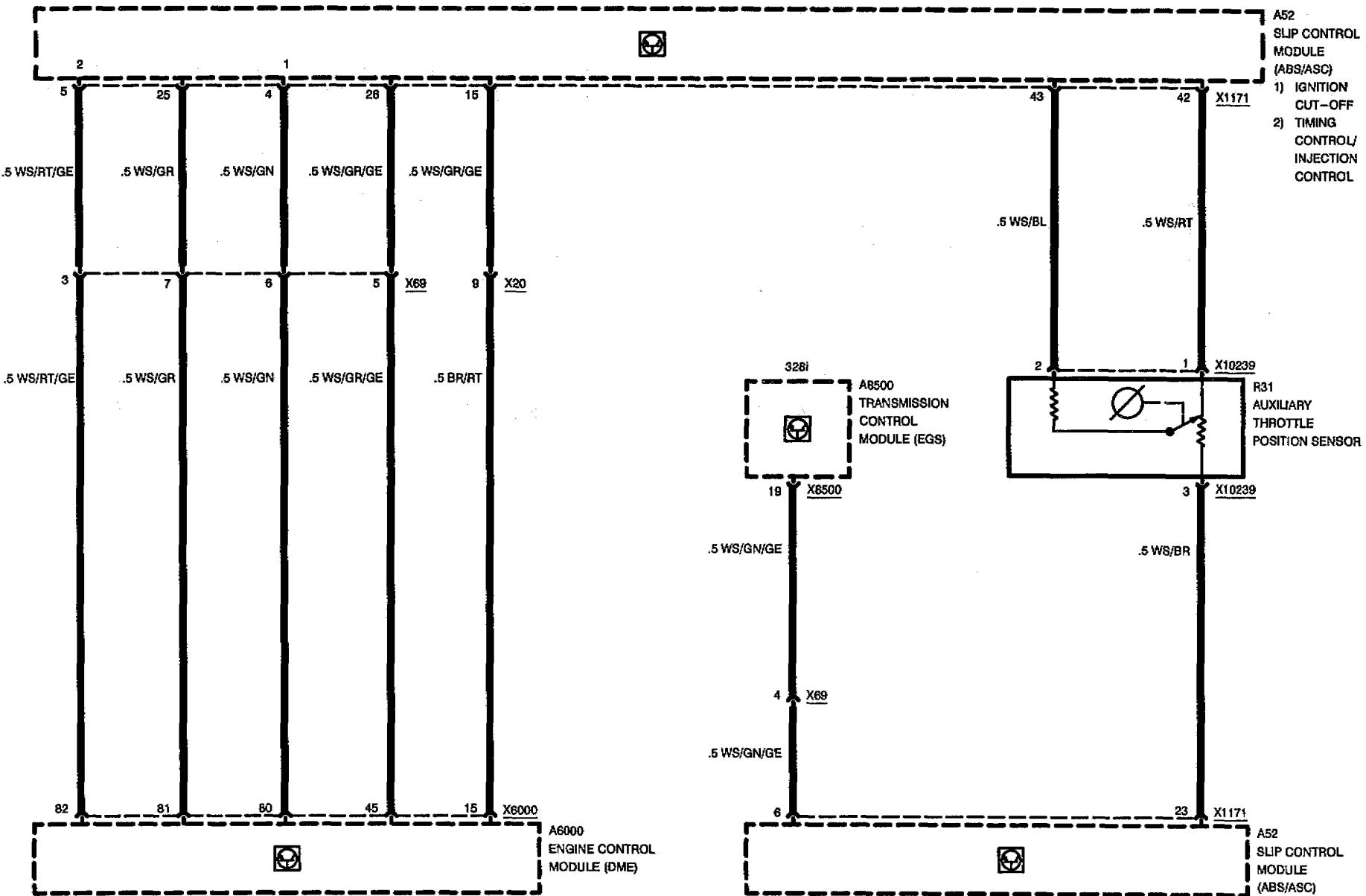




## SLIP CONTROL (ABS/ASC)

325i, 328i, M3







## SLIP CONTROL (ABS/ASC)

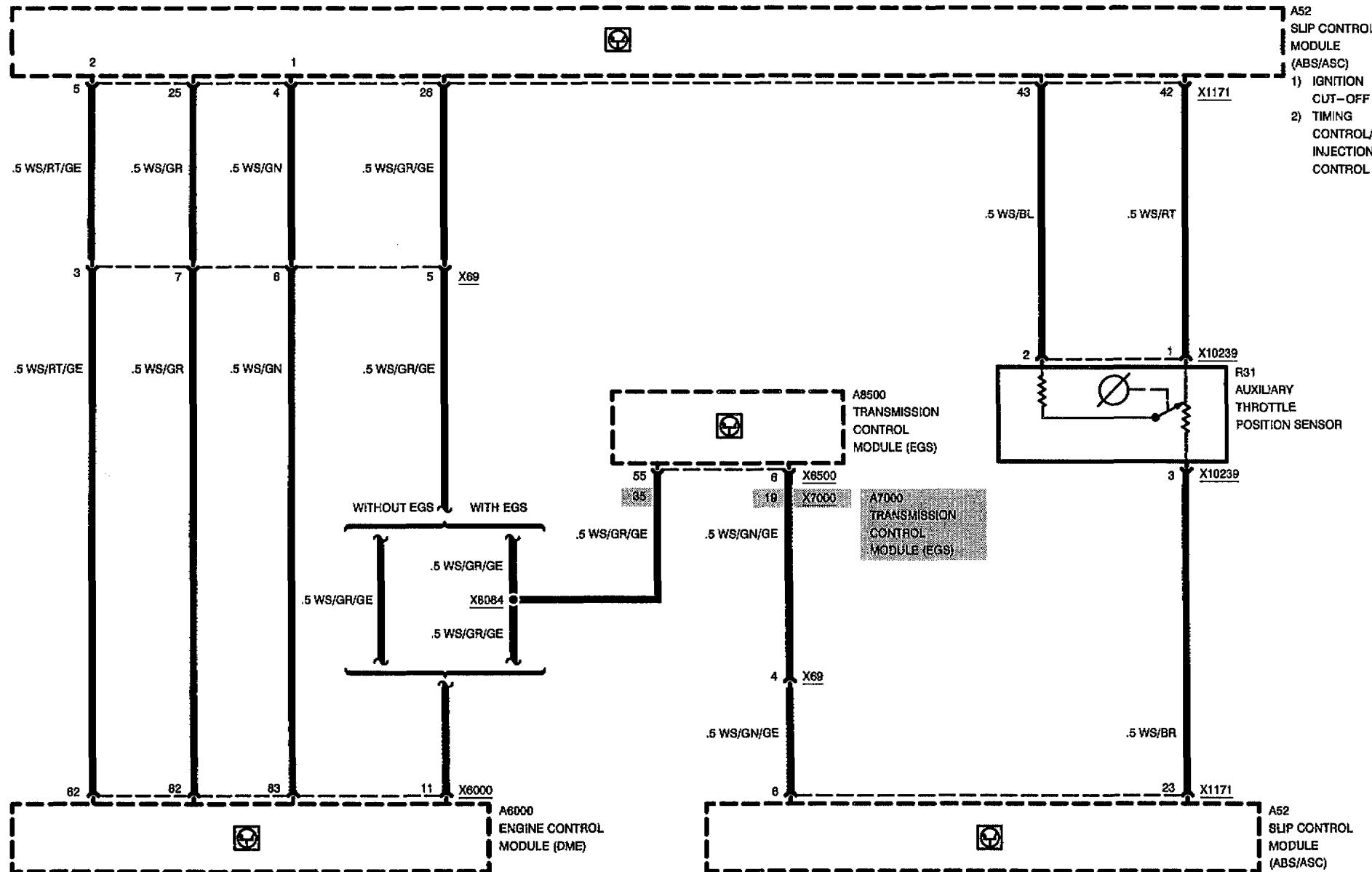
325i, M3

USA

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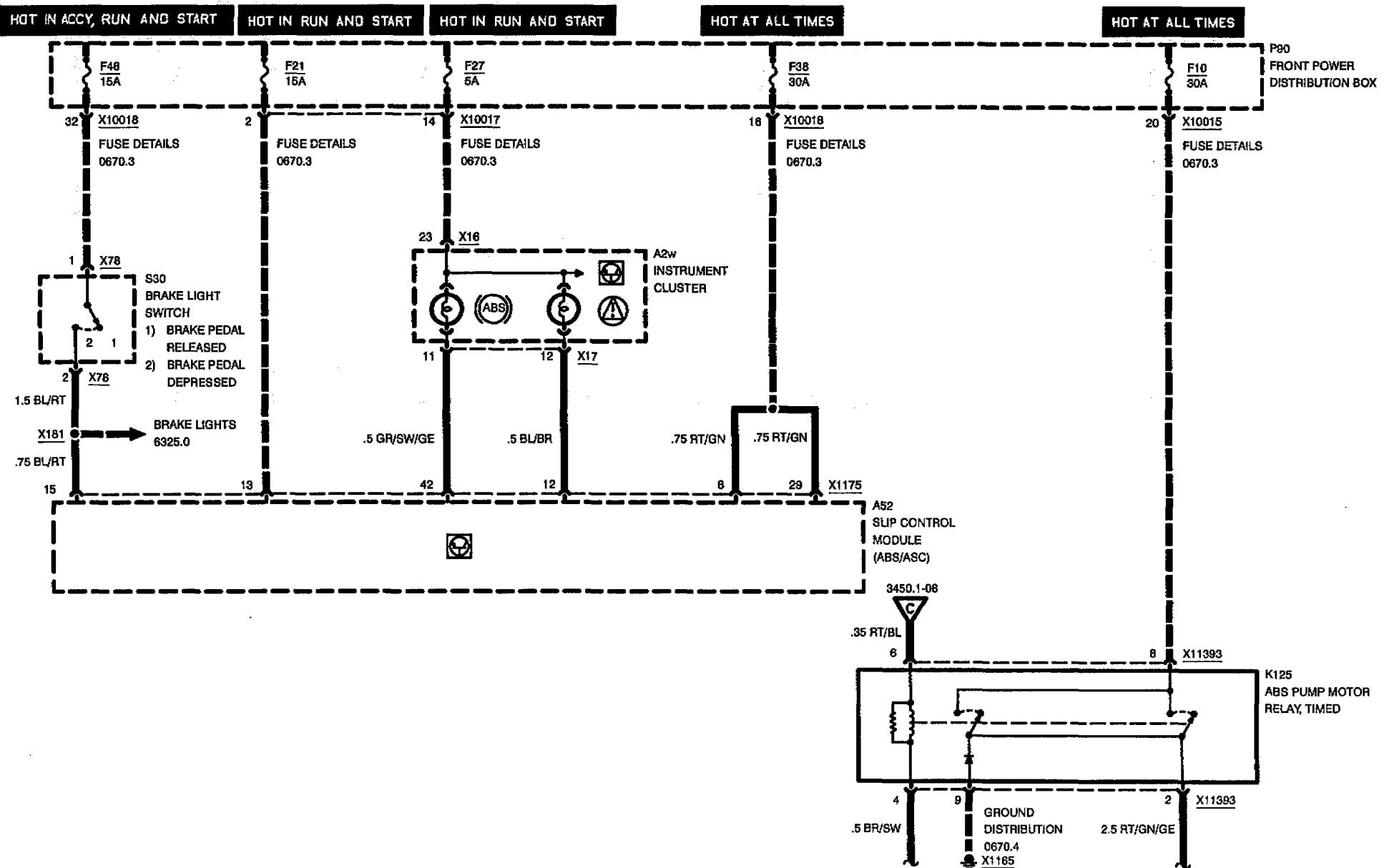
## SLIP CONTROL (ABS/ASC)

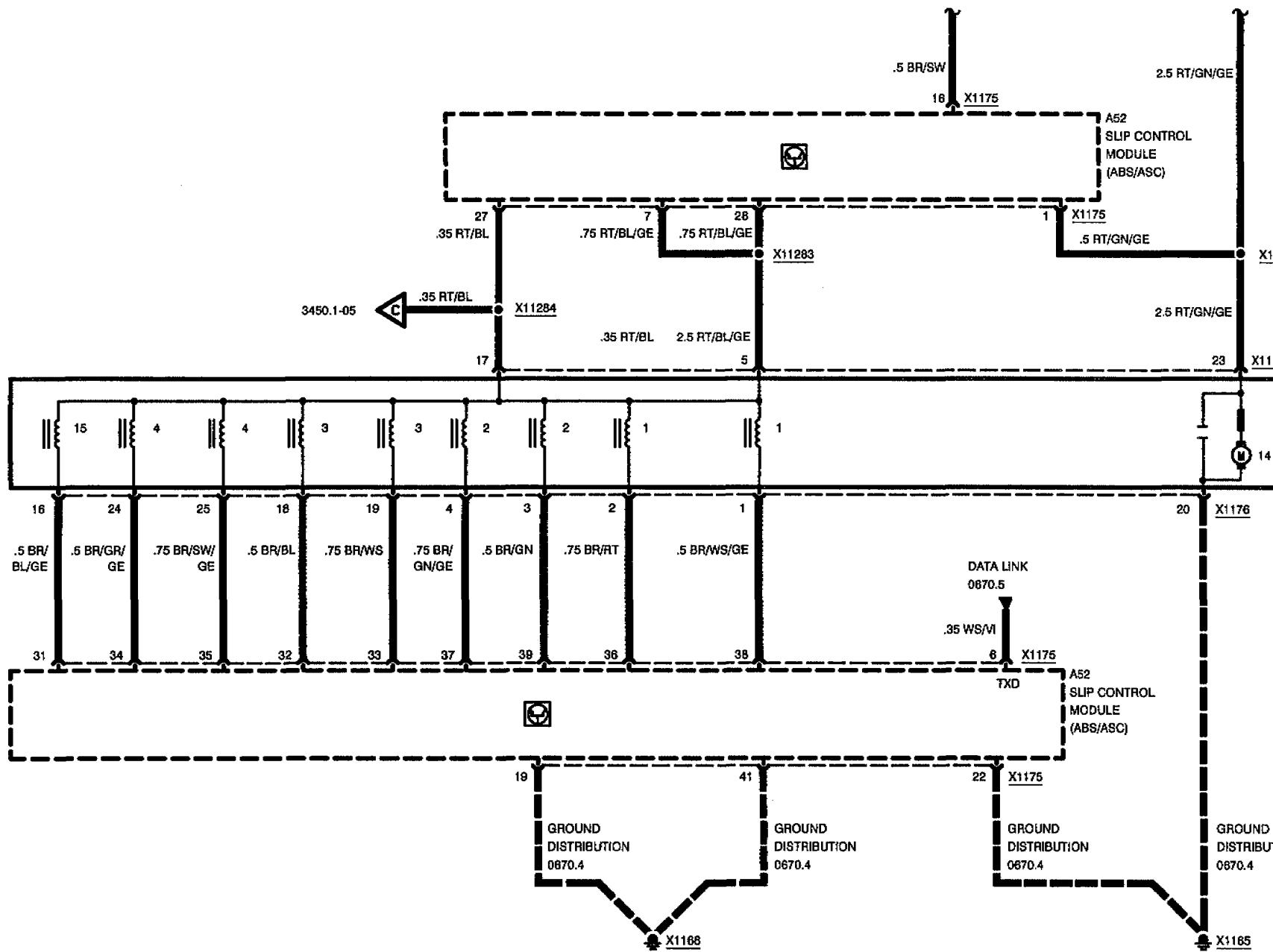
318is

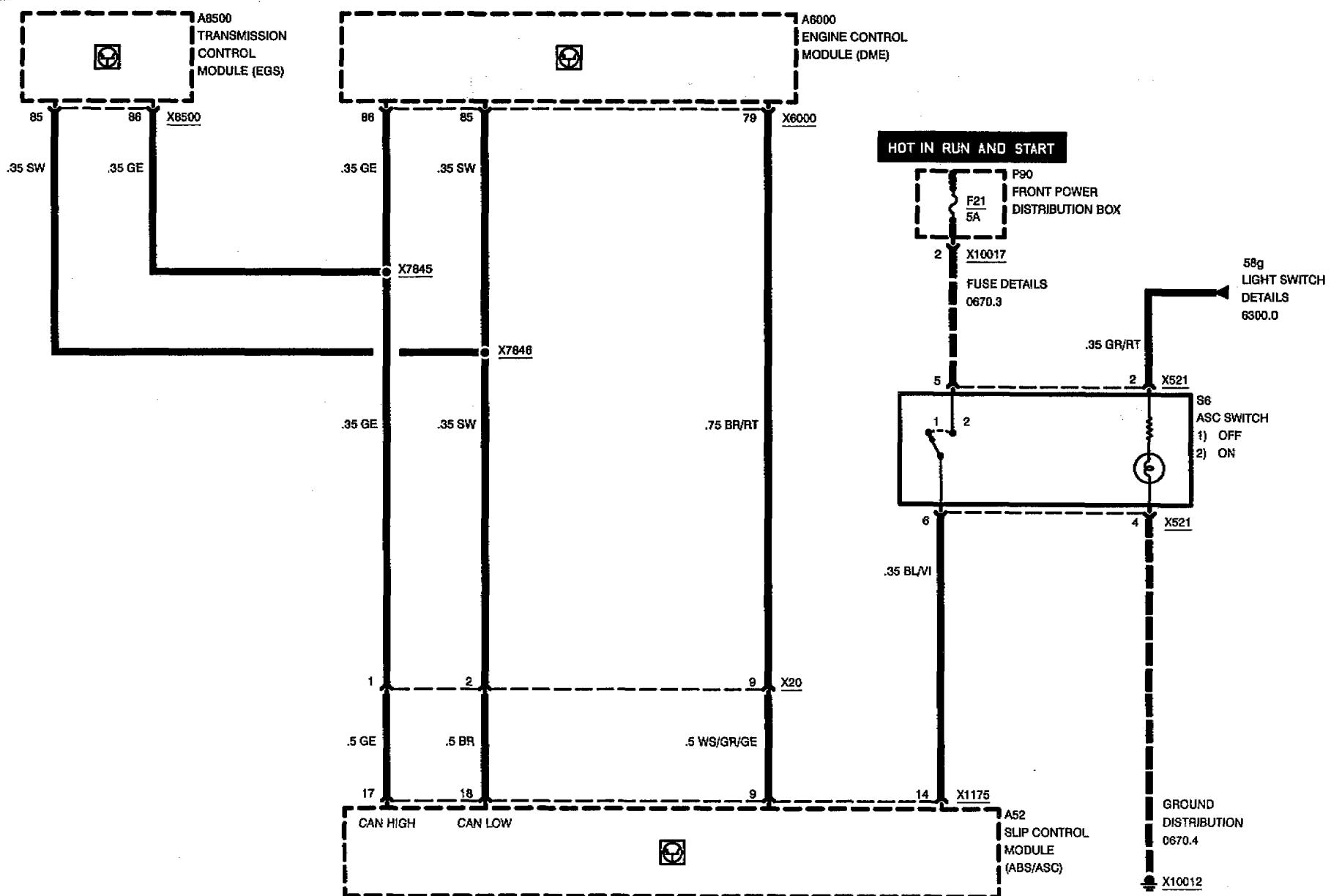
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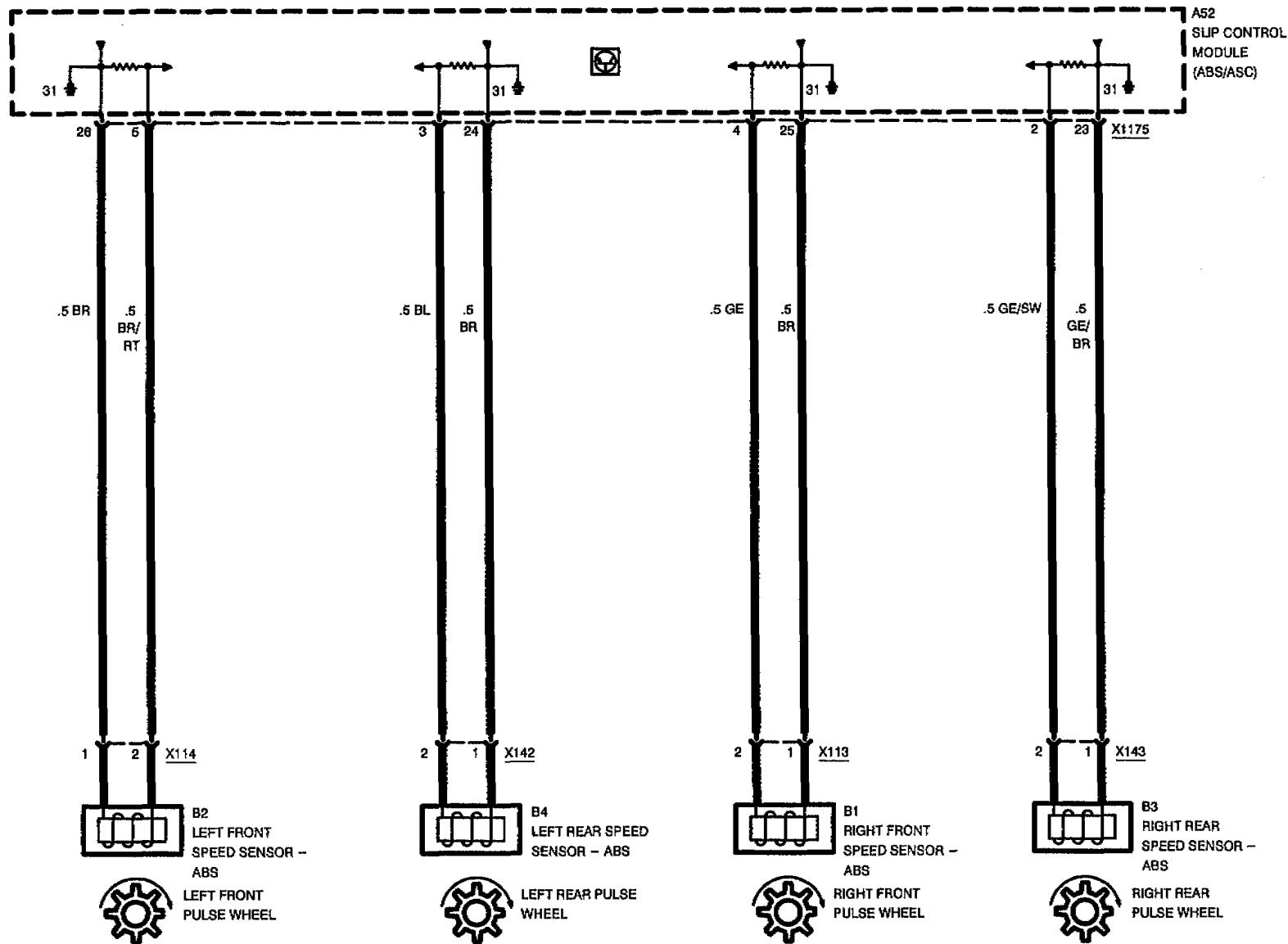
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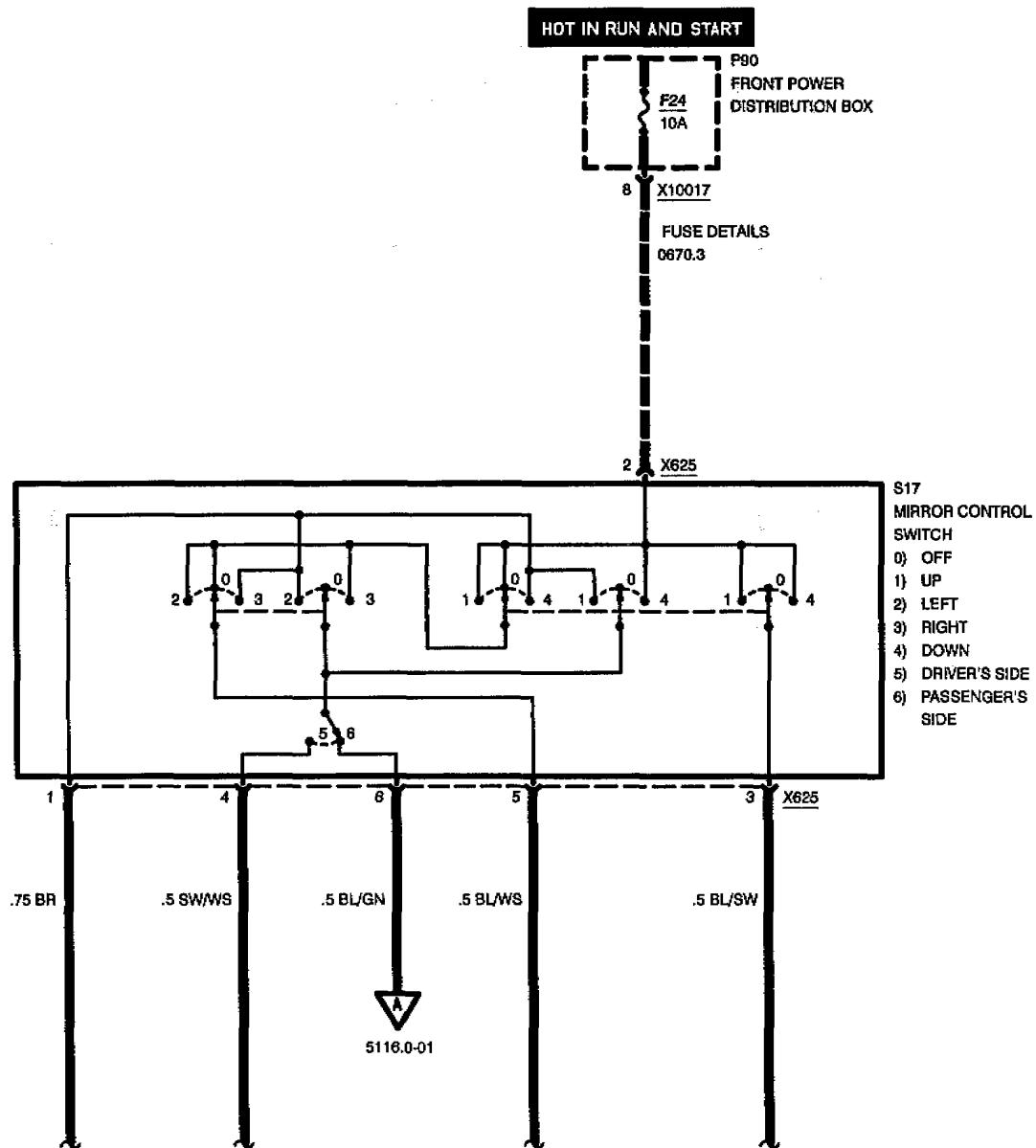
# POWER MIRRORS

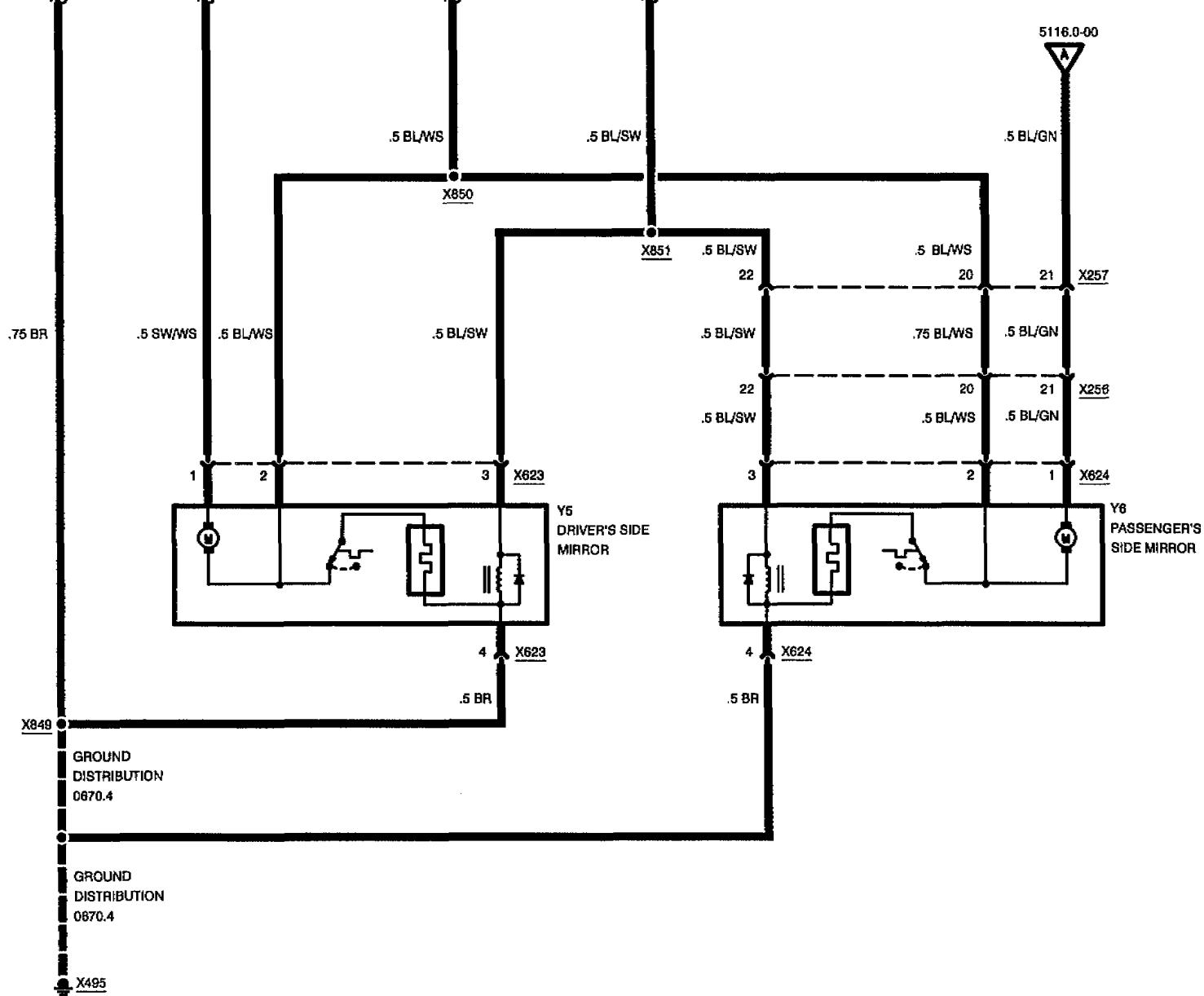
## OUTSIDE MIRROR

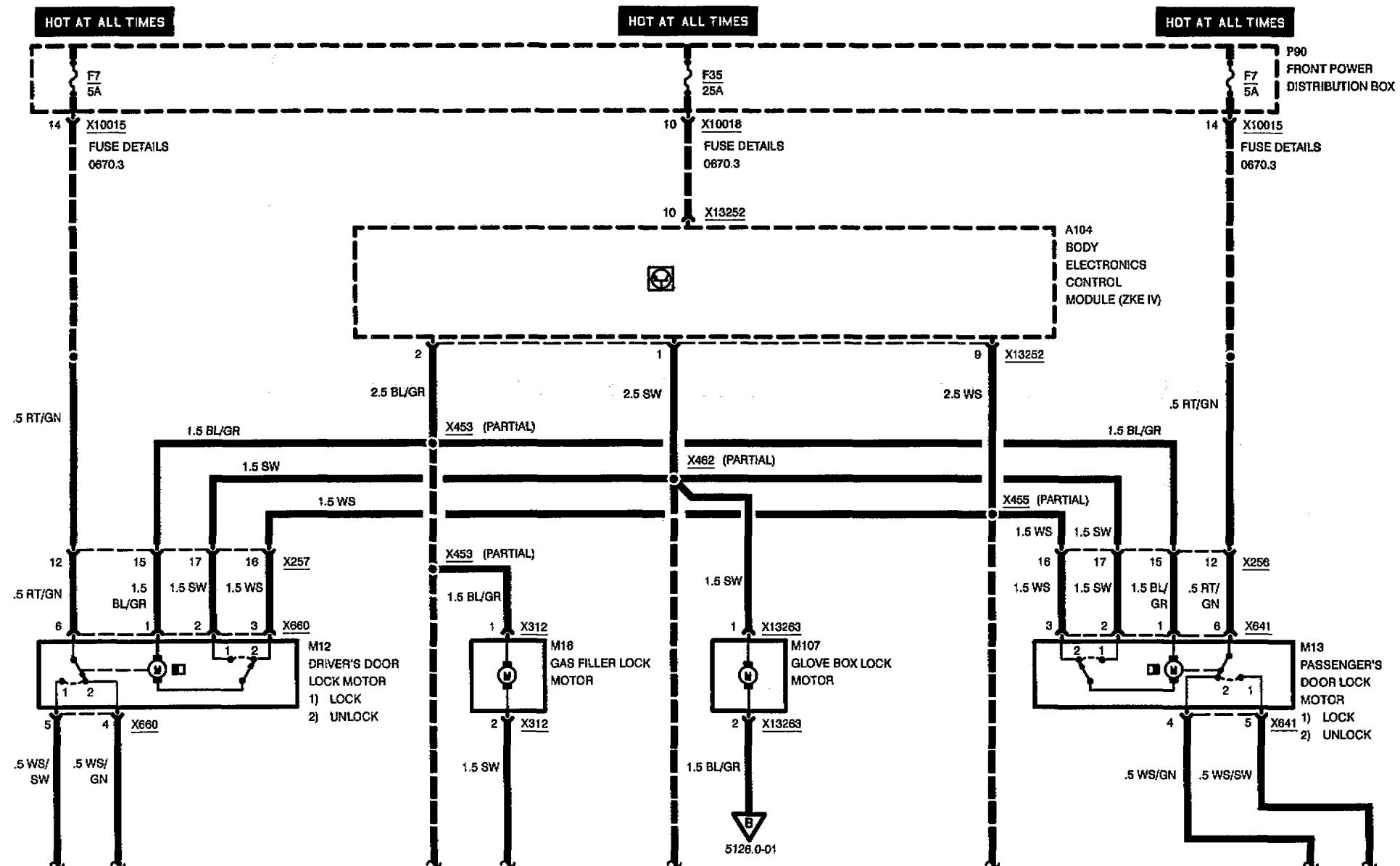
04/97

5116.0-00

1996

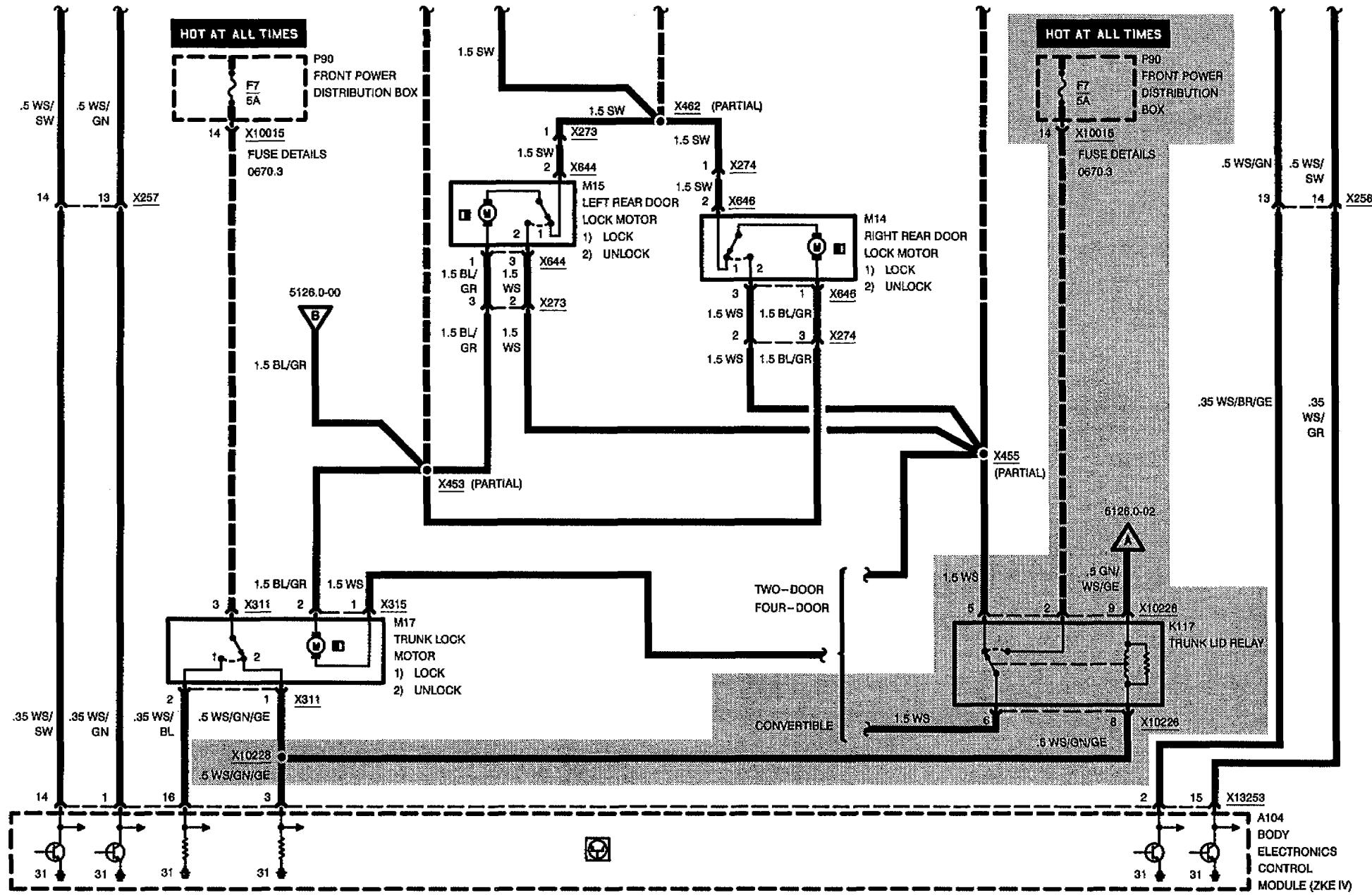


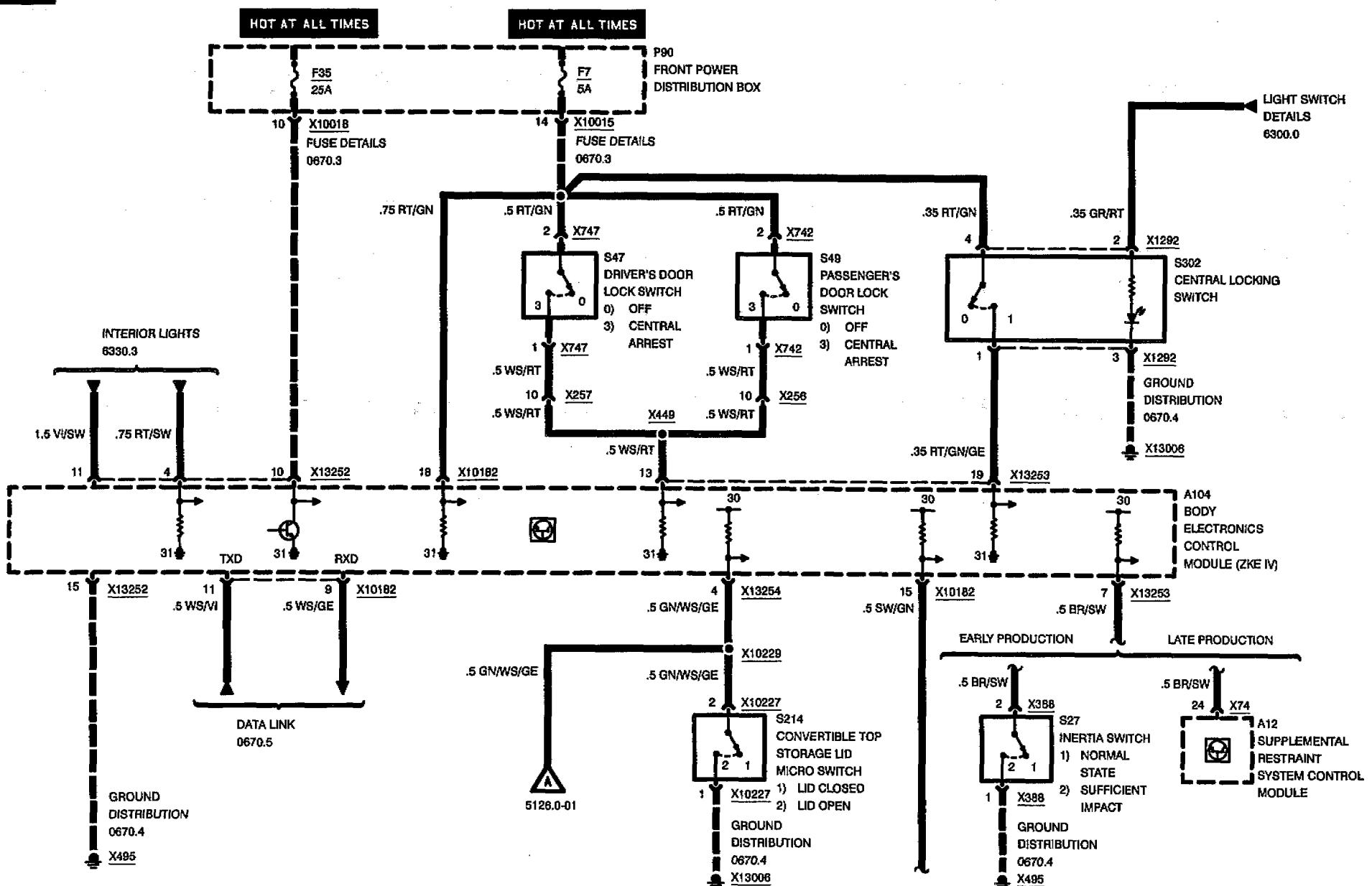


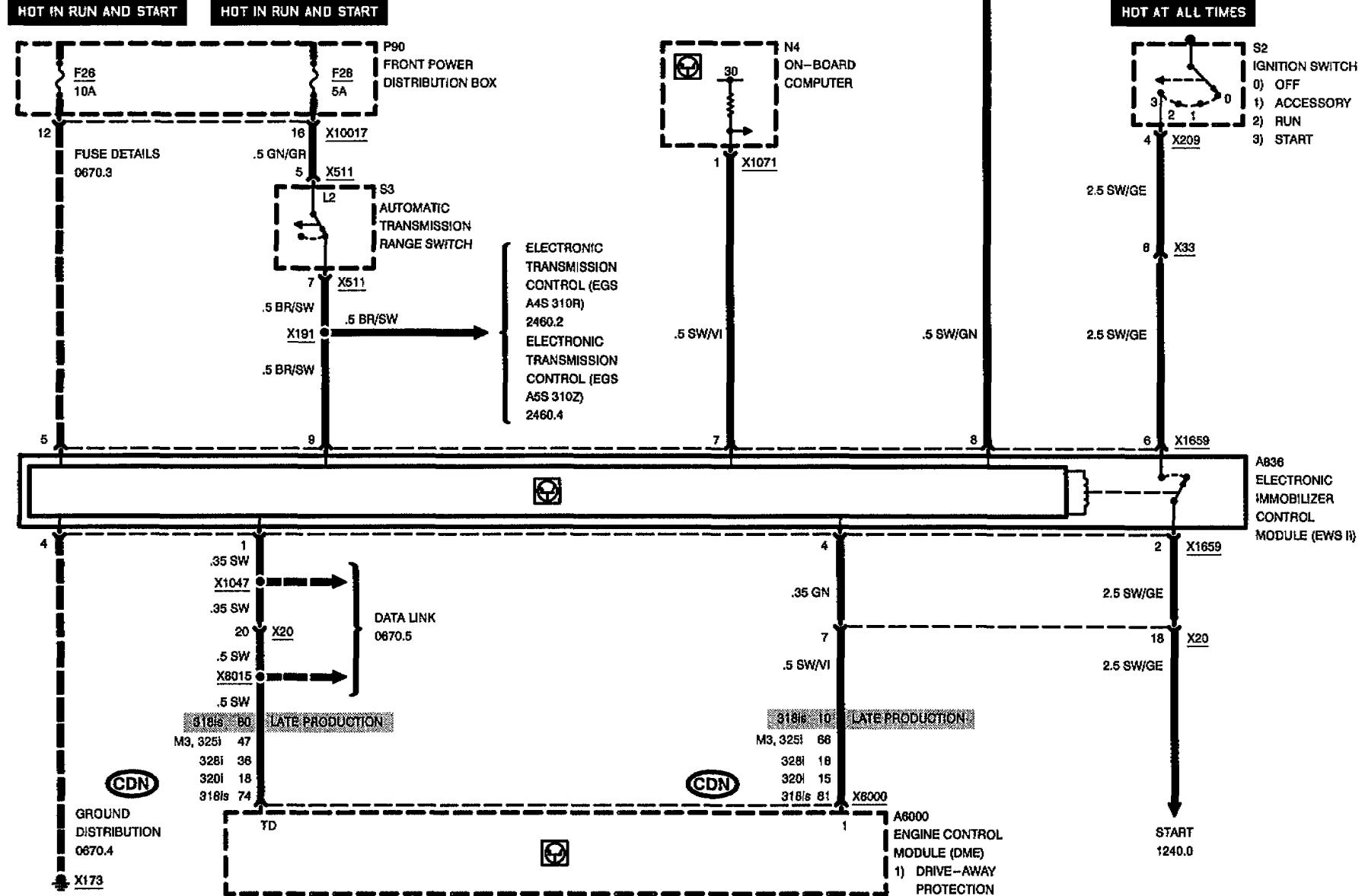


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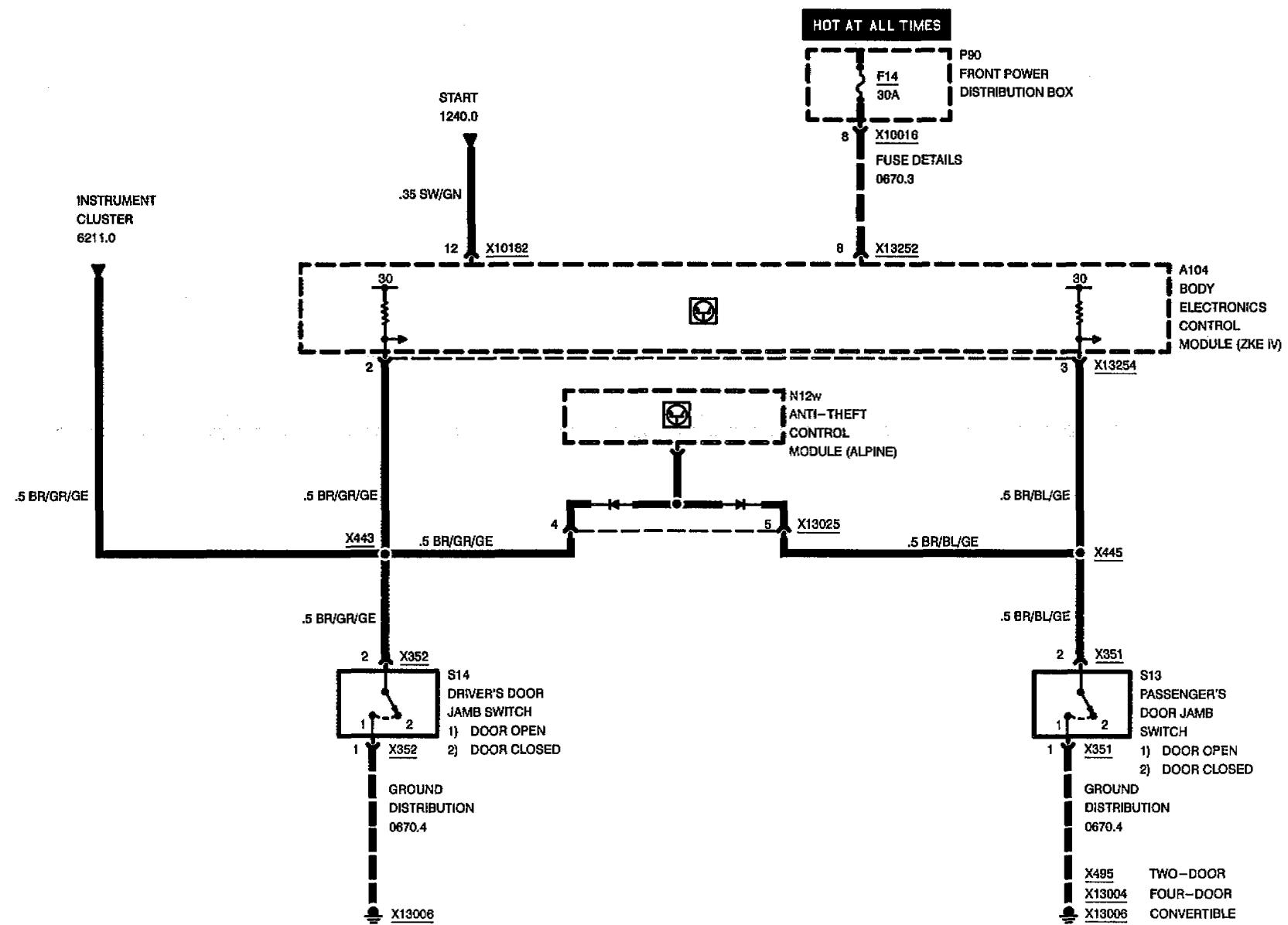






# POWER WINDOWS (FH)

## INPUT DETAILS



BMW

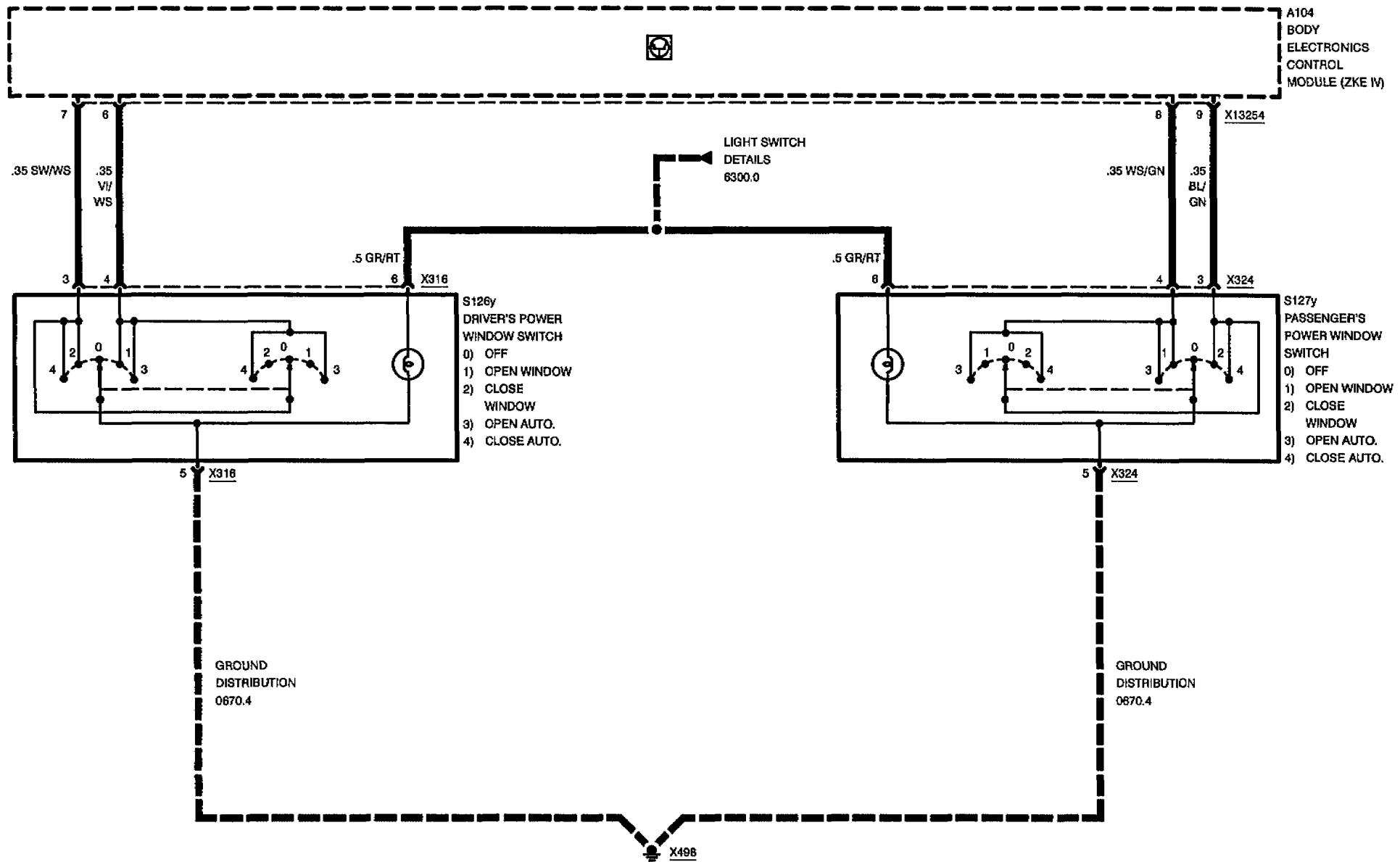
**3****POWER WINDOWS (FH)****INPUT DETAILS**

04/97

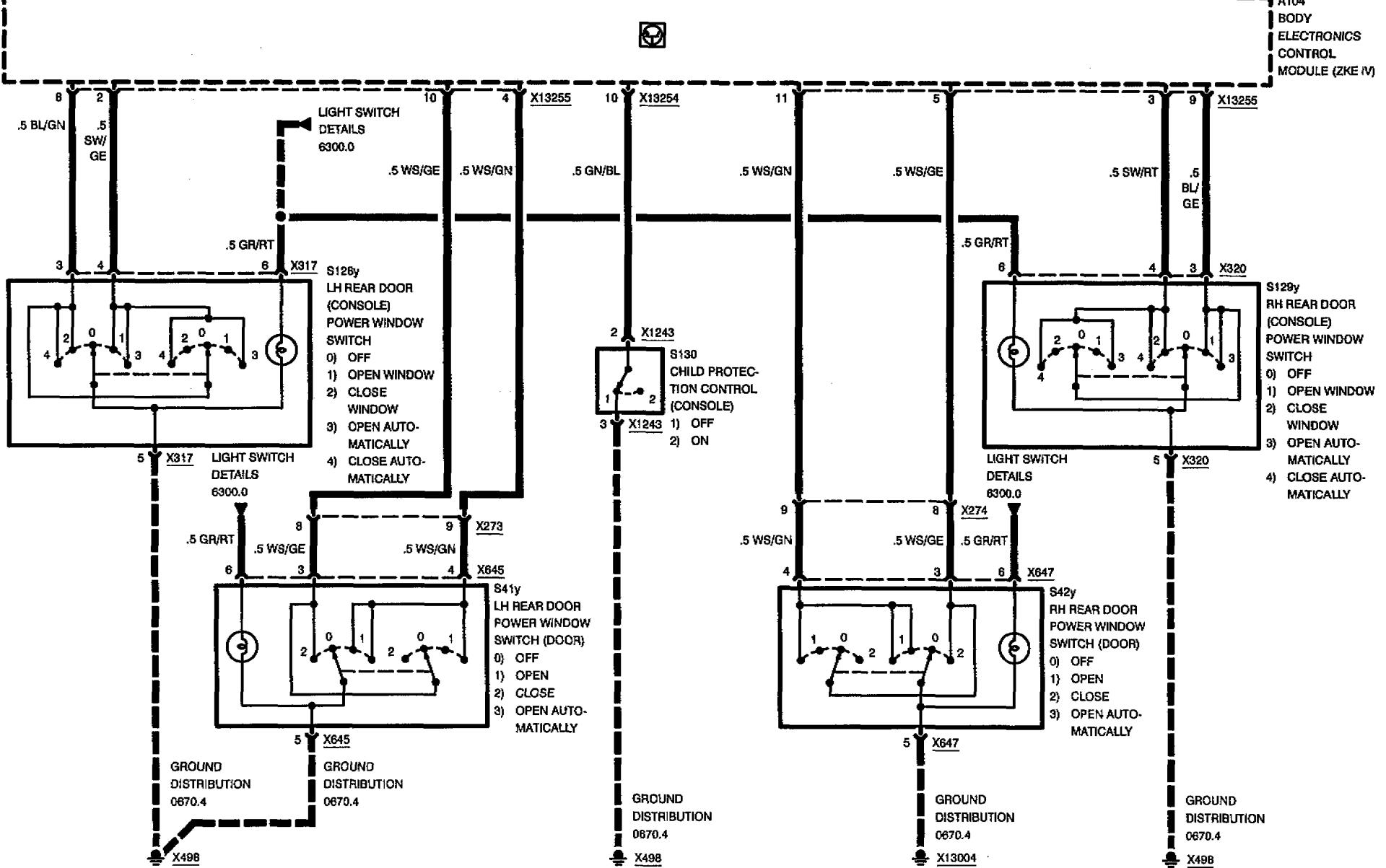
5133.1-01

1996

A104  
BODY  
ELECTRONICS  
CONTROL  
MODULE (ZKE IV)



A104  
BODY  
ELECTRONICS  
CONTROL  
MODULE (ZKE IV)





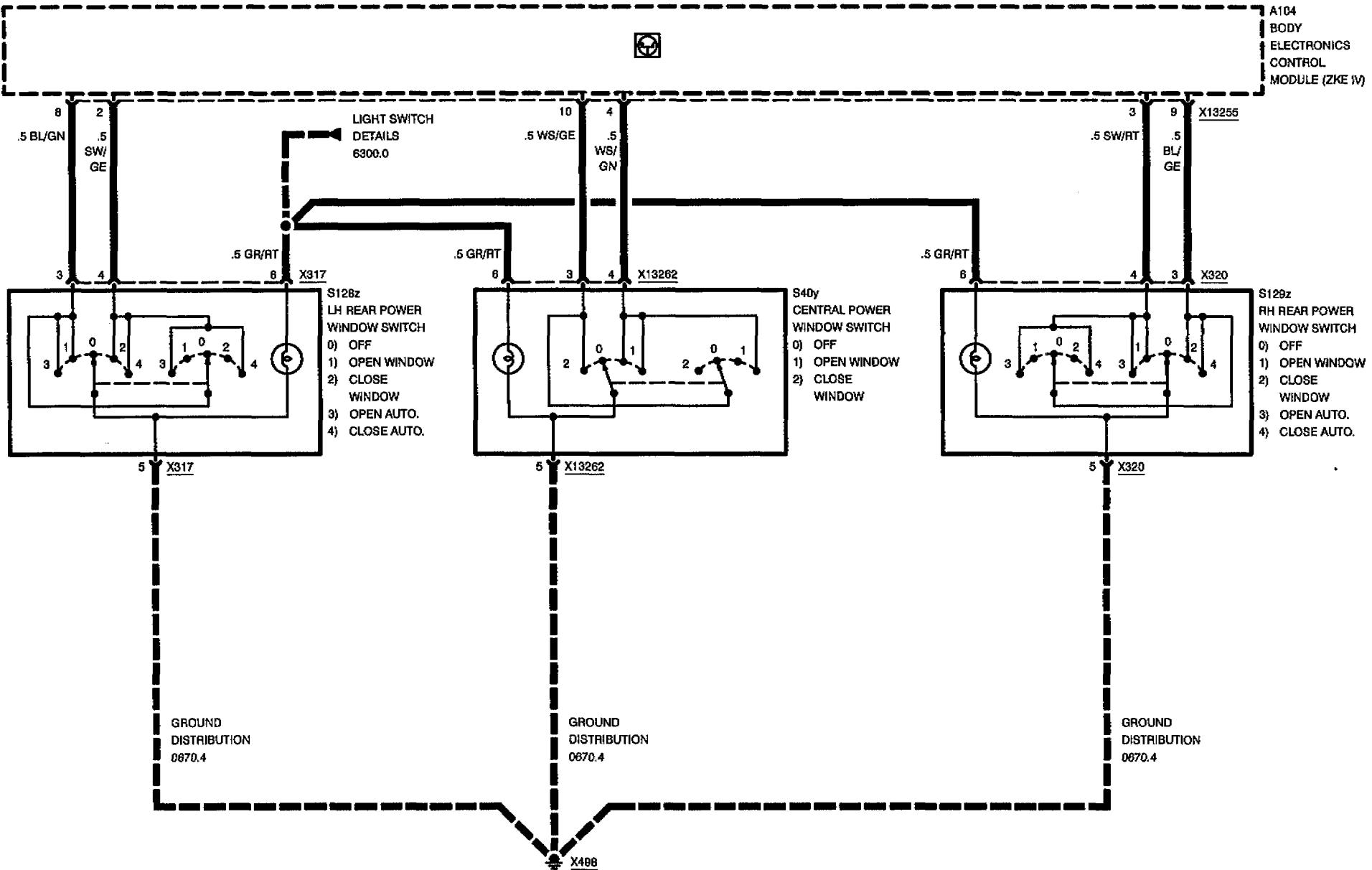
## POWER WINDOWS (FH)

### INPUT DETAILS

CONVERTIBLE

04/97

A104  
BODY  
ELECTRONICS  
CONTROL  
MODULE (ZKE IV)



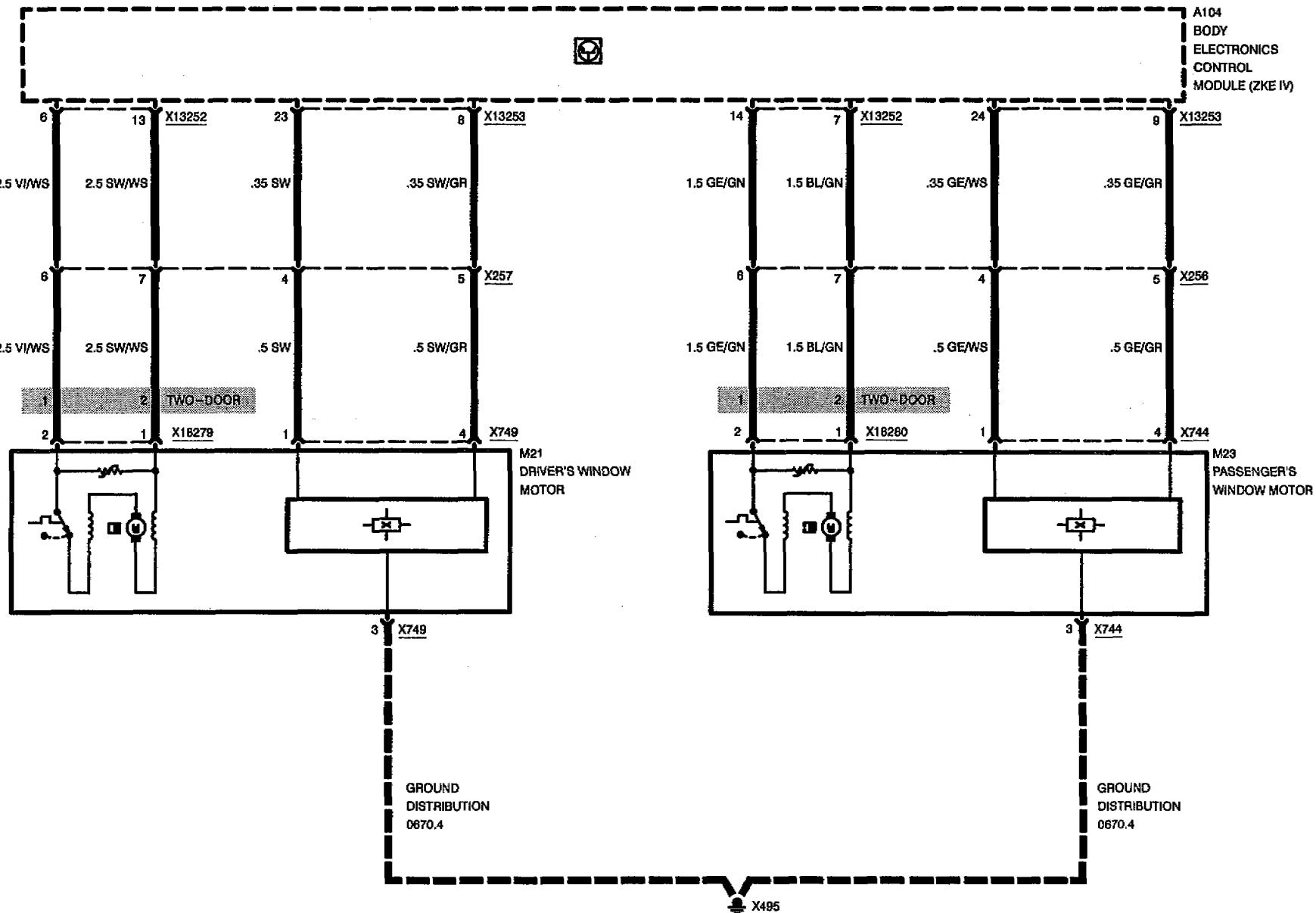
5133.1-03

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# POWER WINDOWS (FH)

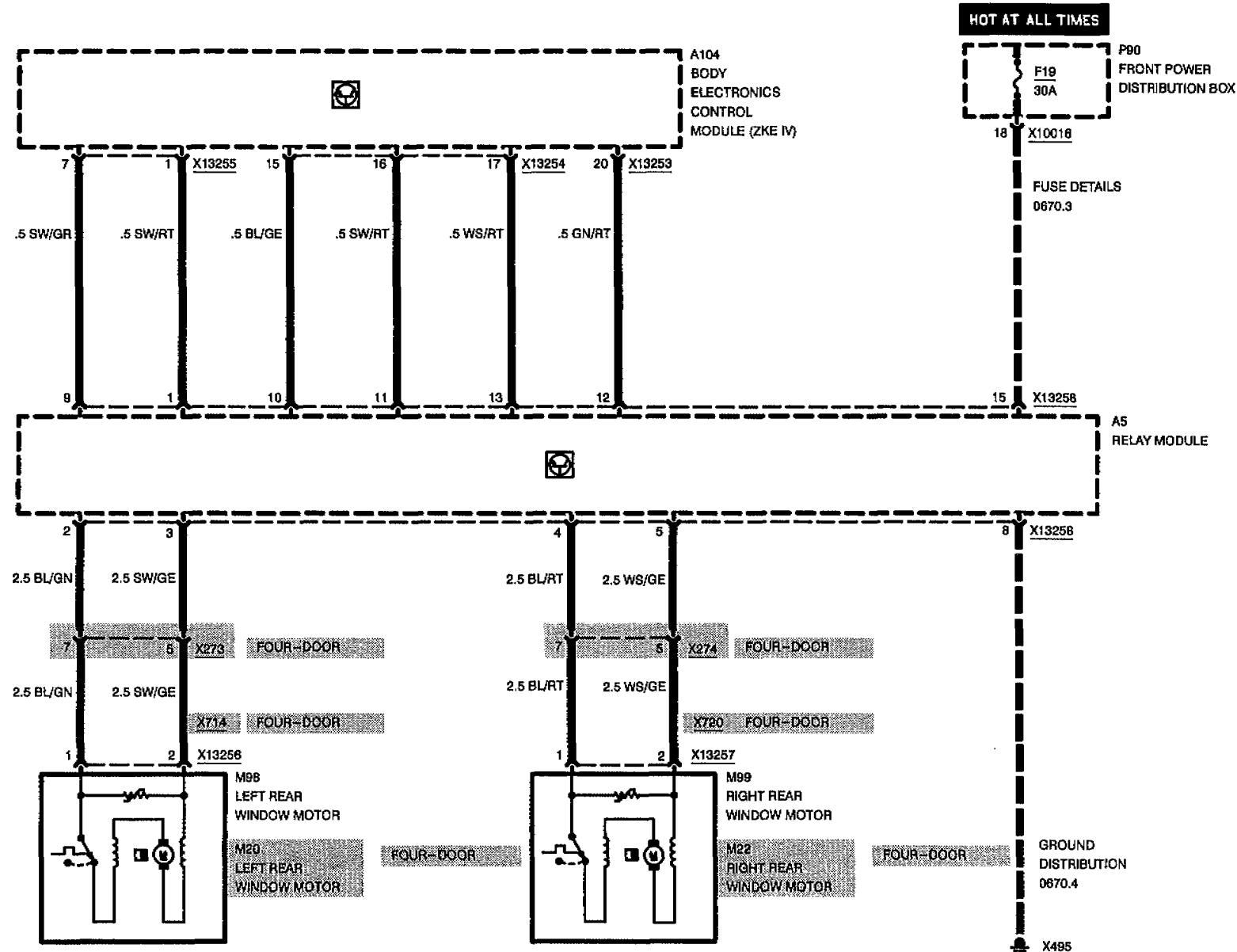
## OUTPUT DETAILS





## POWER WINDOWS (FH)

### OUTPUT DETAILS





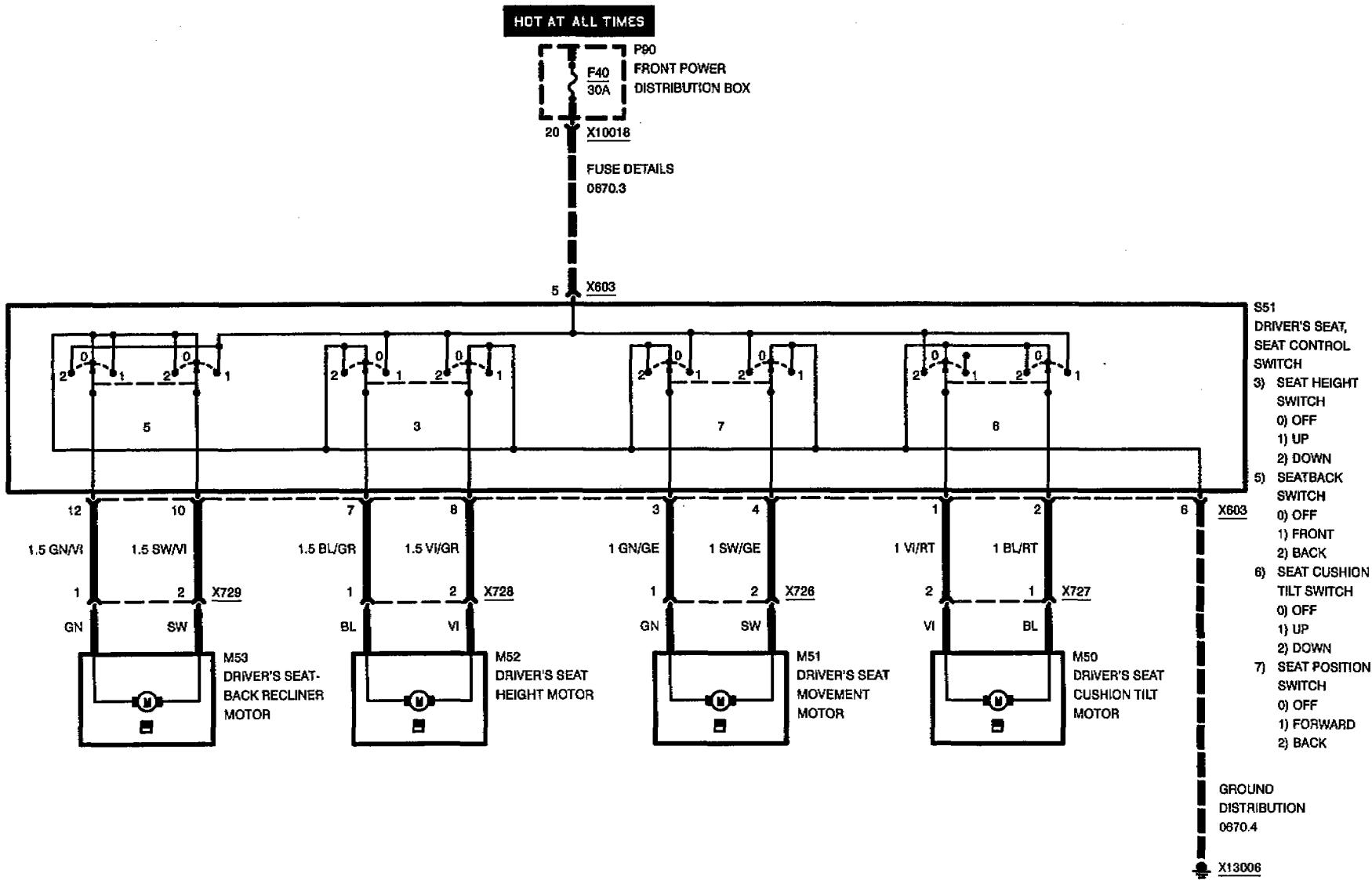
# POWER SEATS

## DRIVER'S SEAT

04/97

5200.0-00

1996





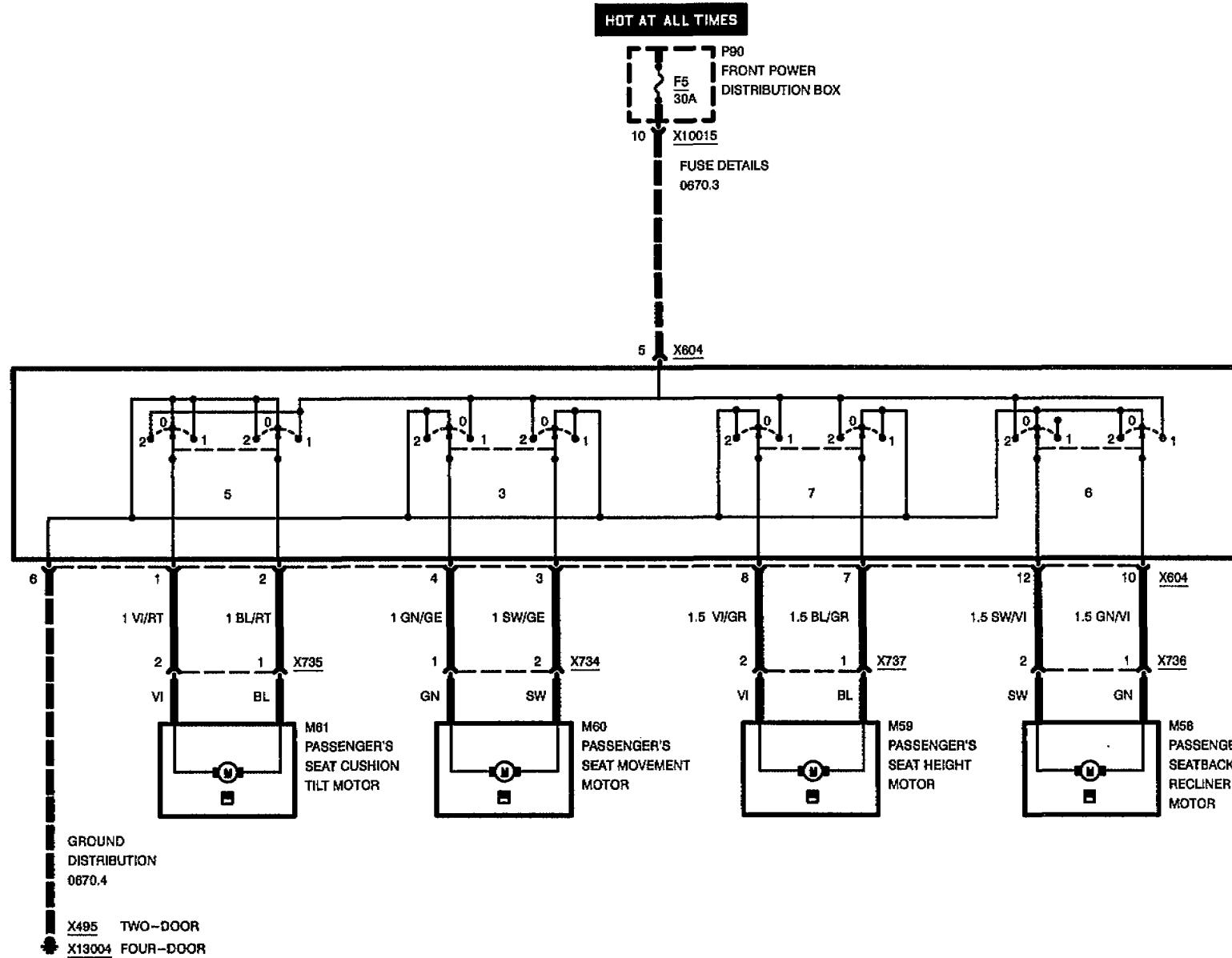
# POWER SEATS

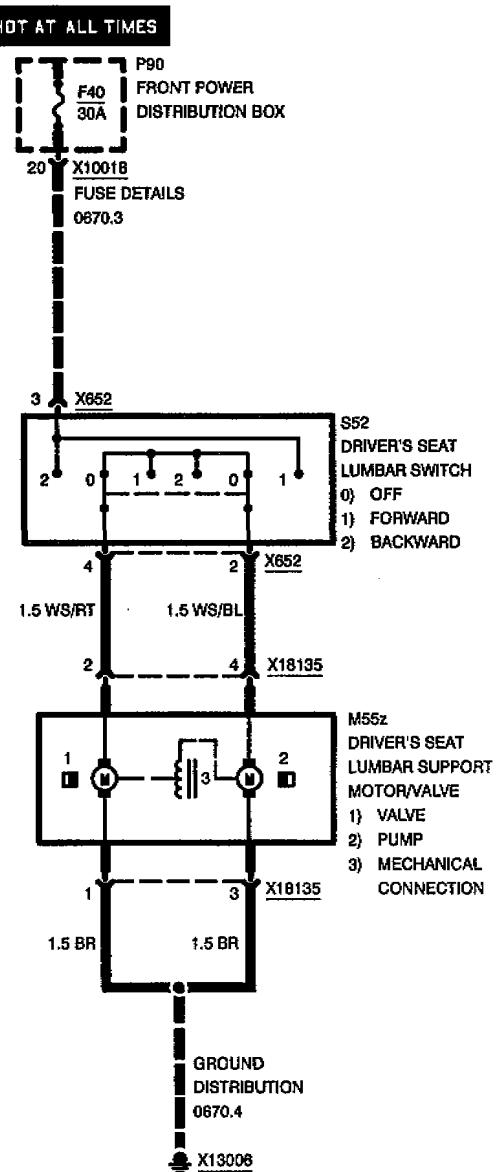
## PASSENGER'S SEAT

04/97

5200.0-01

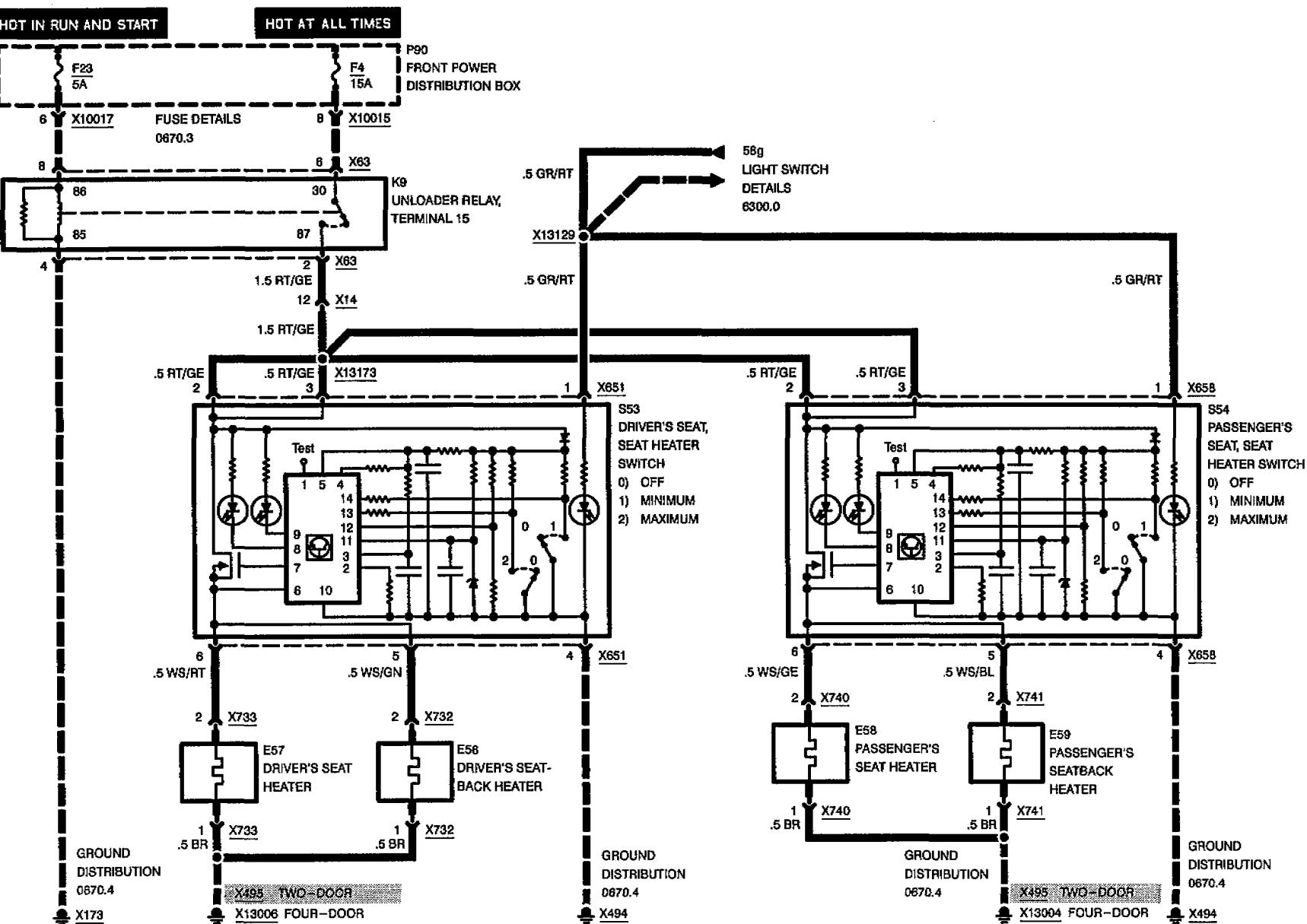
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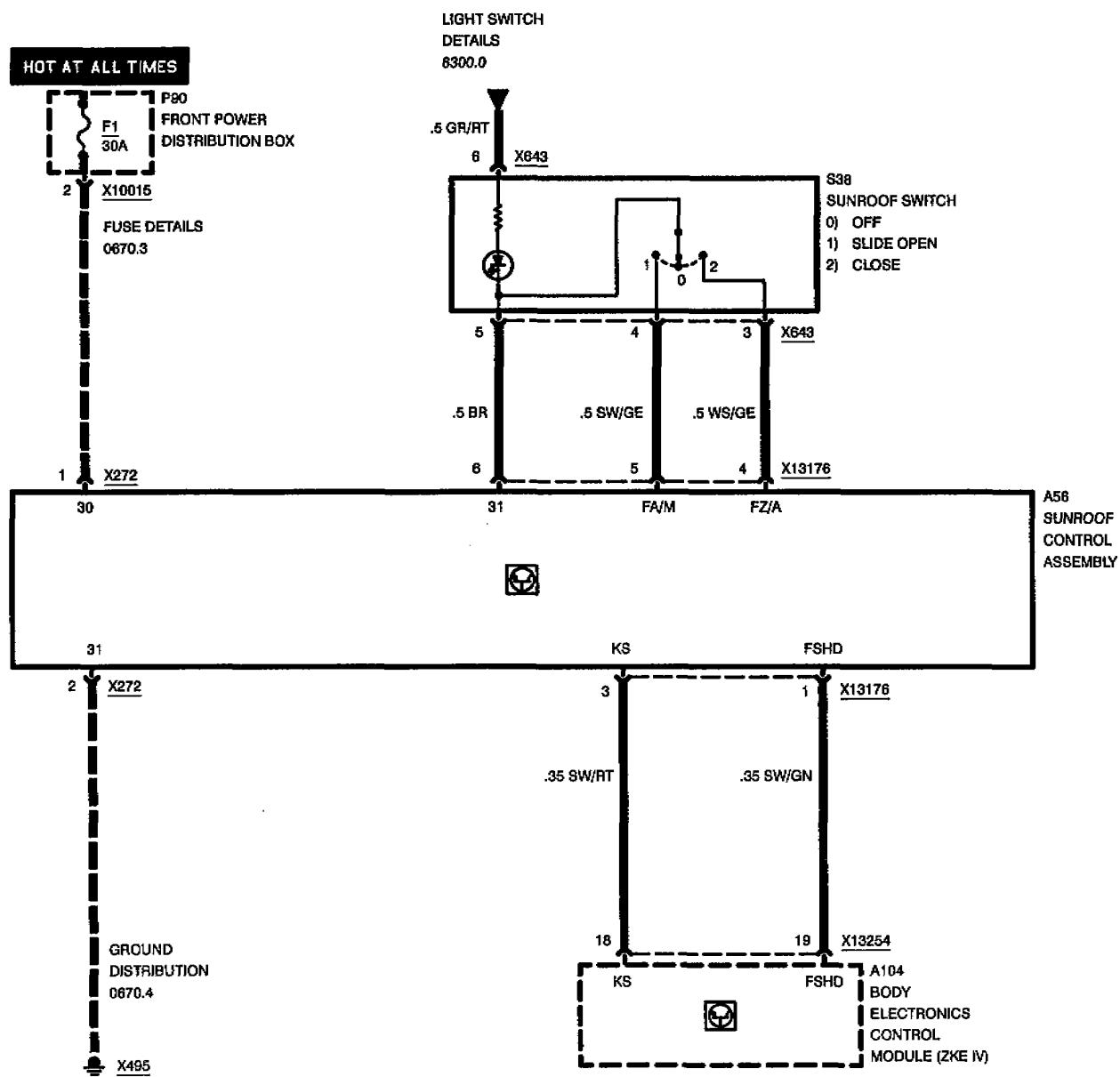


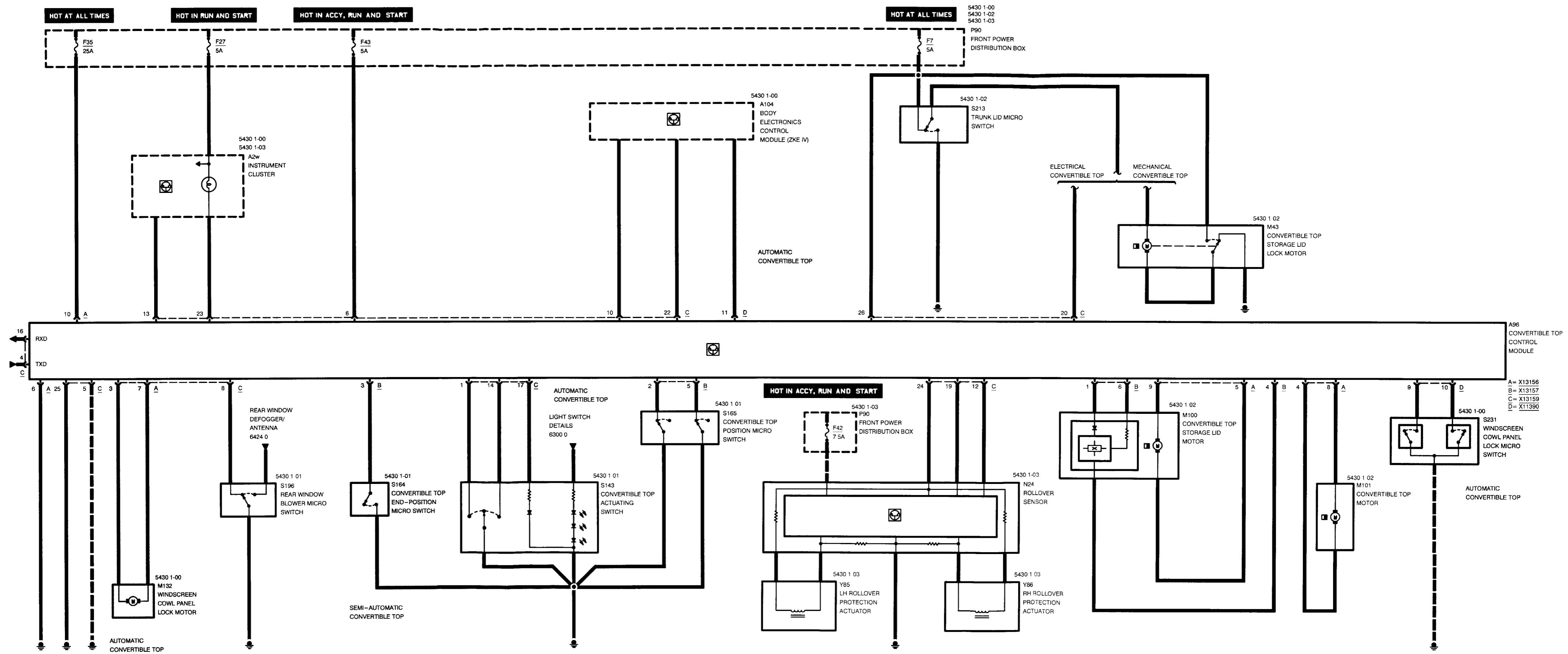
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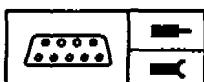




5410.1







## Pin Assignments

A = X13156	10 Pins, black
B = X13157	6 Pins, black
C = X13159	26 Pins, black
D = X11390	12 Pins, black

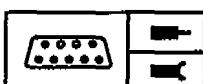
### X13156

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

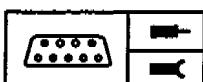


## Pin Assignments

X13159

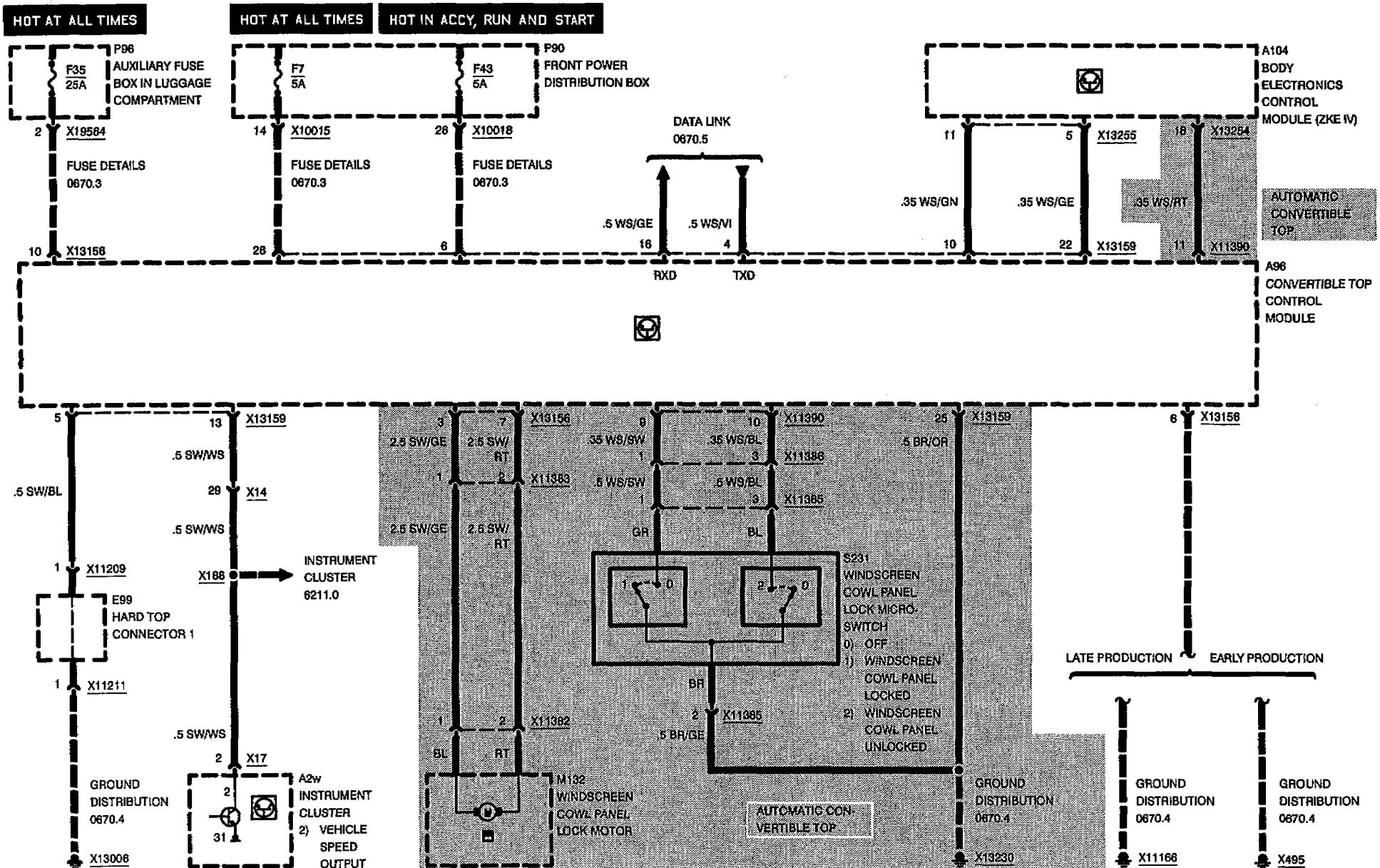
Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box
7		Not used	
8	E	Rear window blower signal	Rear window blower 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



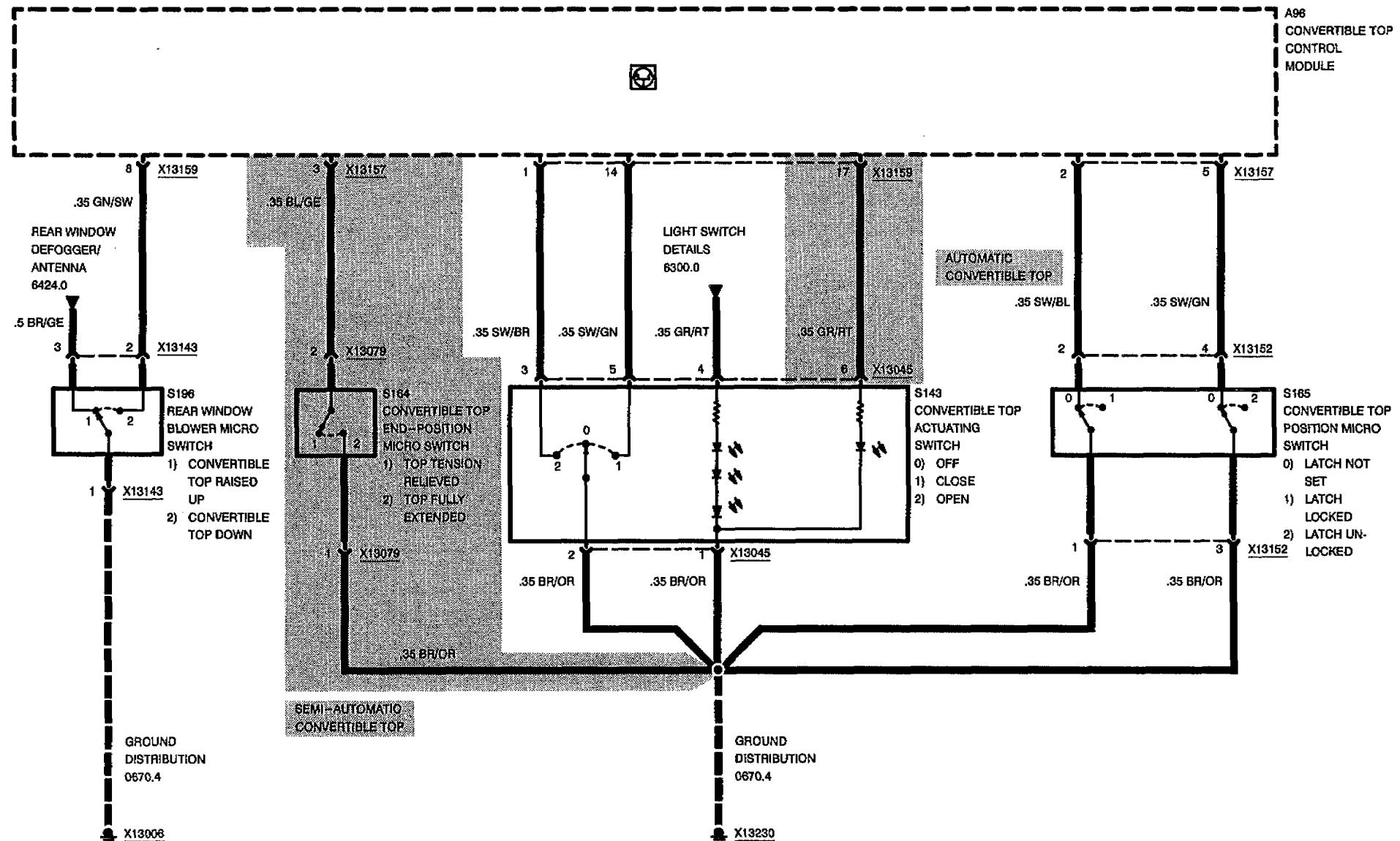


## ELECTRICAL CONVERTIBLE TOP

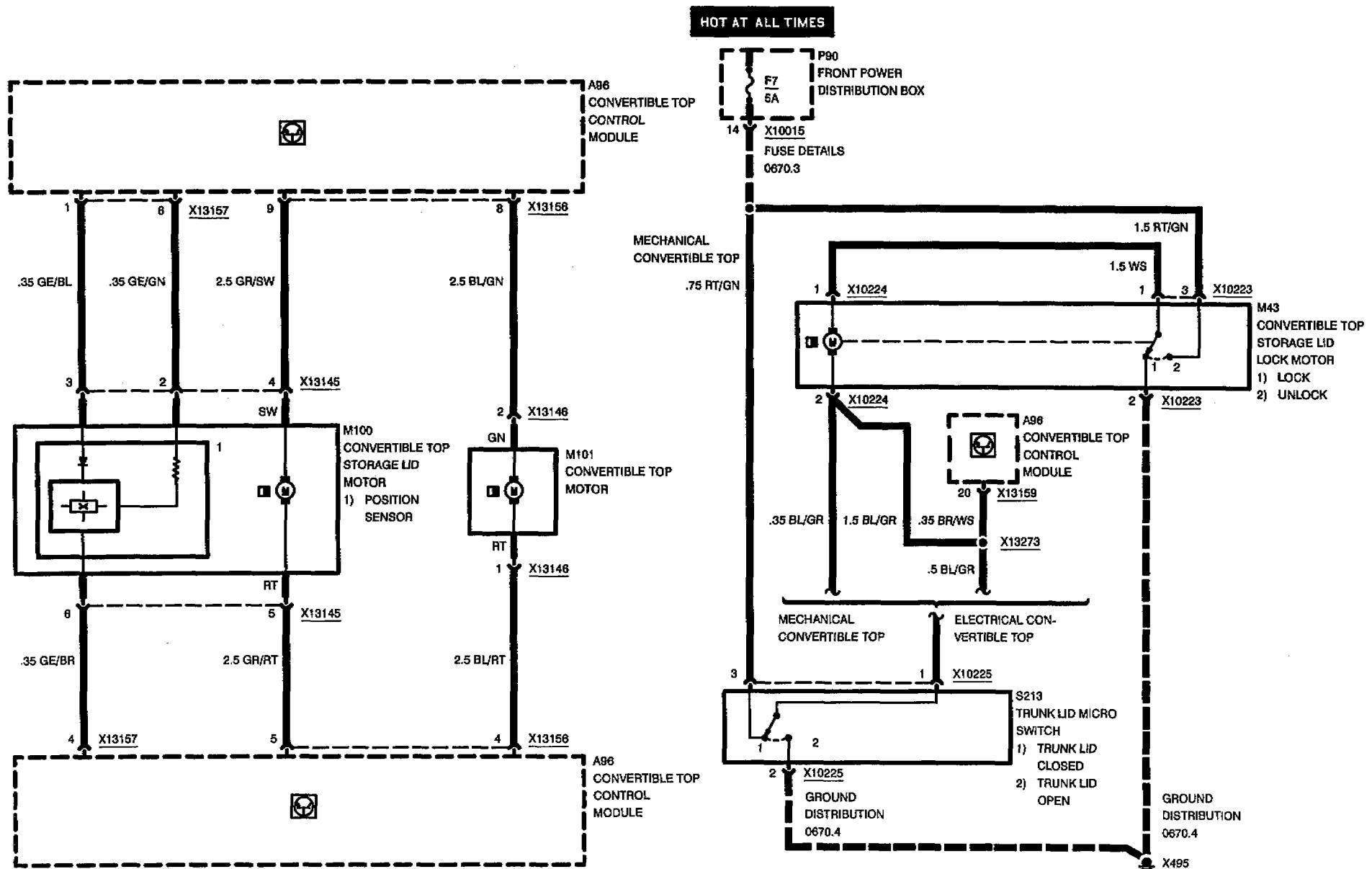
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## ELECTRICAL CONVERTIBLE TOP



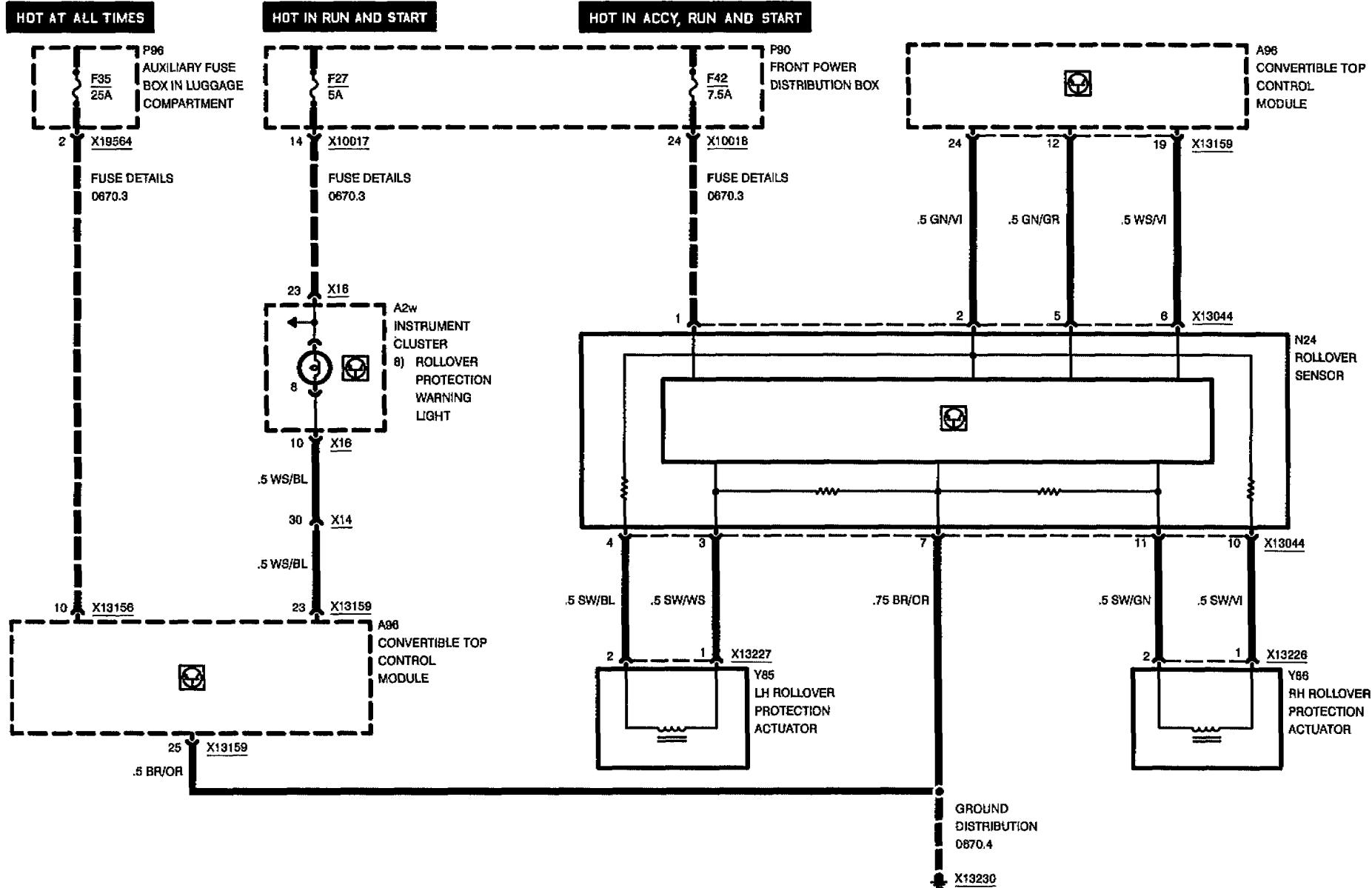


## ELECTRICAL CONVERTIBLE TOP

04/97

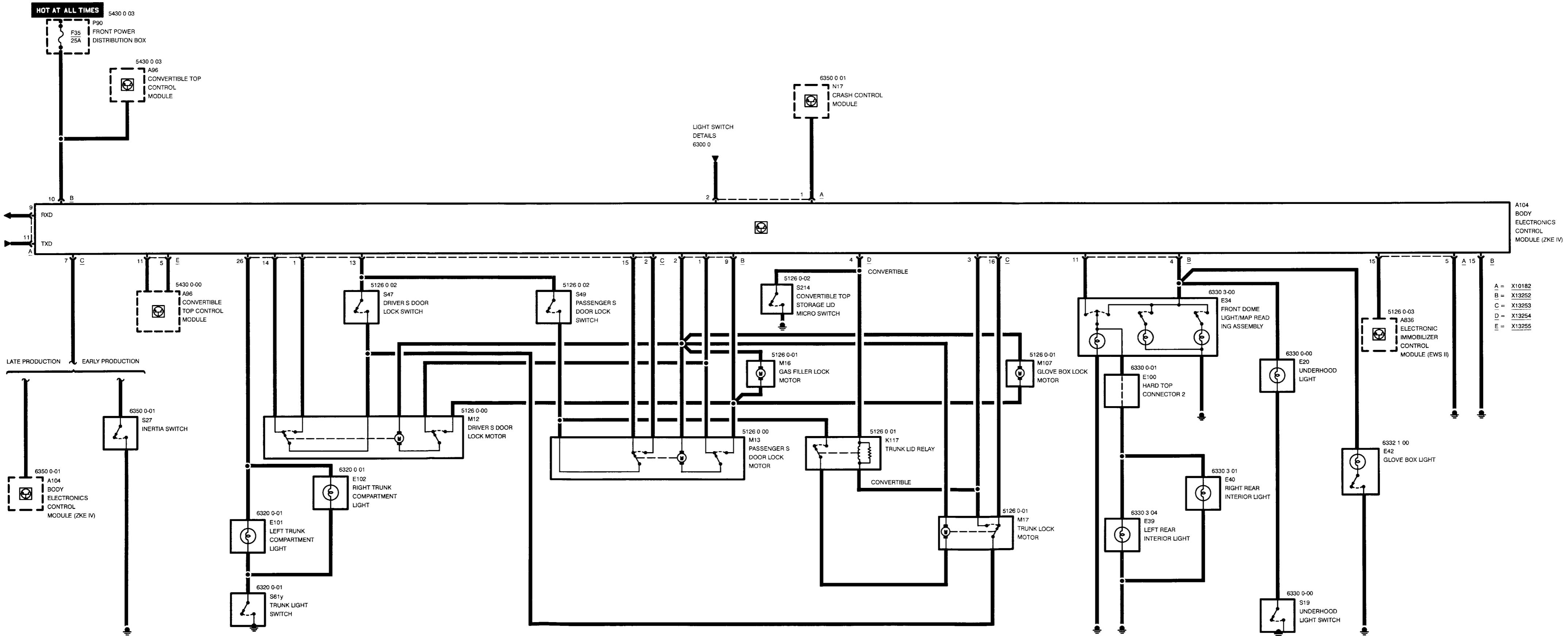
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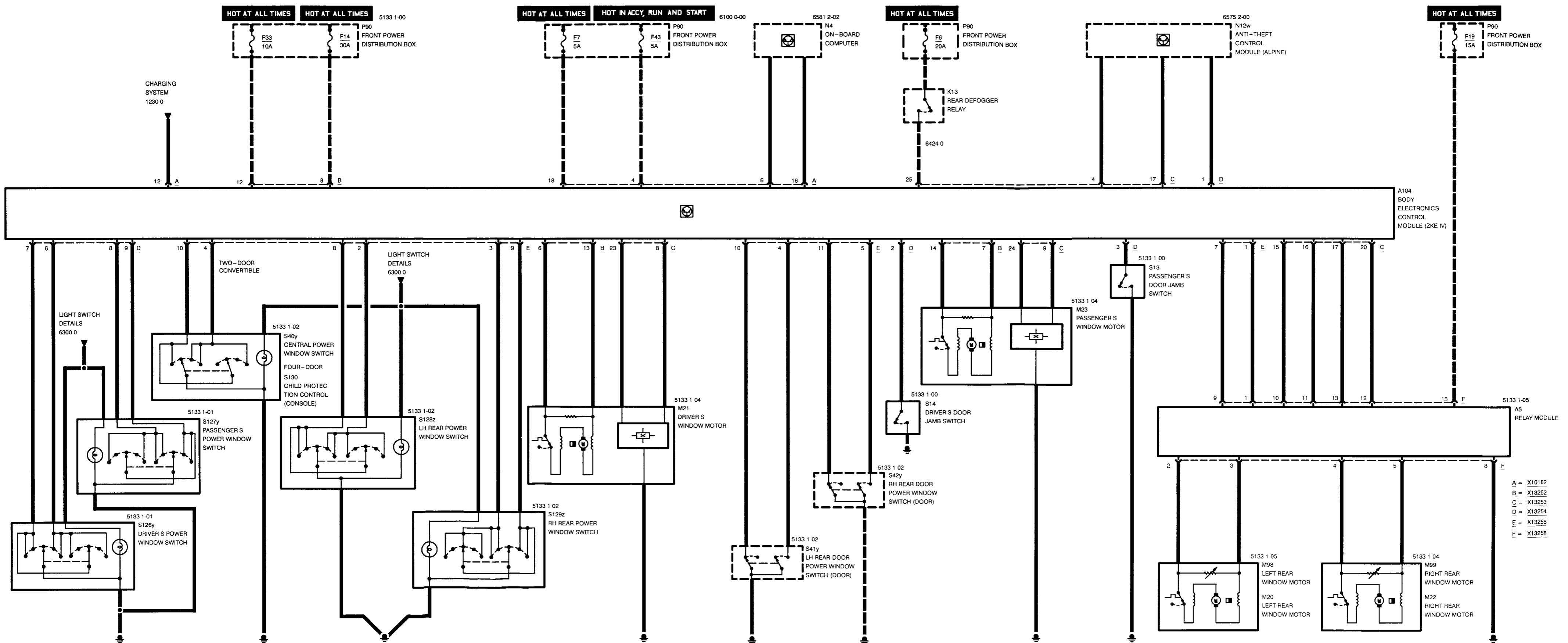
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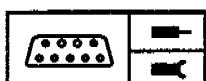




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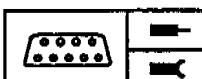
## Pin Assignments

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

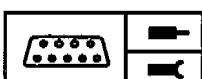
### X13252

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

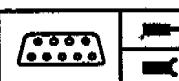
**Pin Assignments**

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



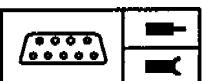
## Pin Assignments

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



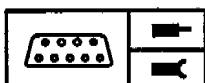
## Pin Assignments

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

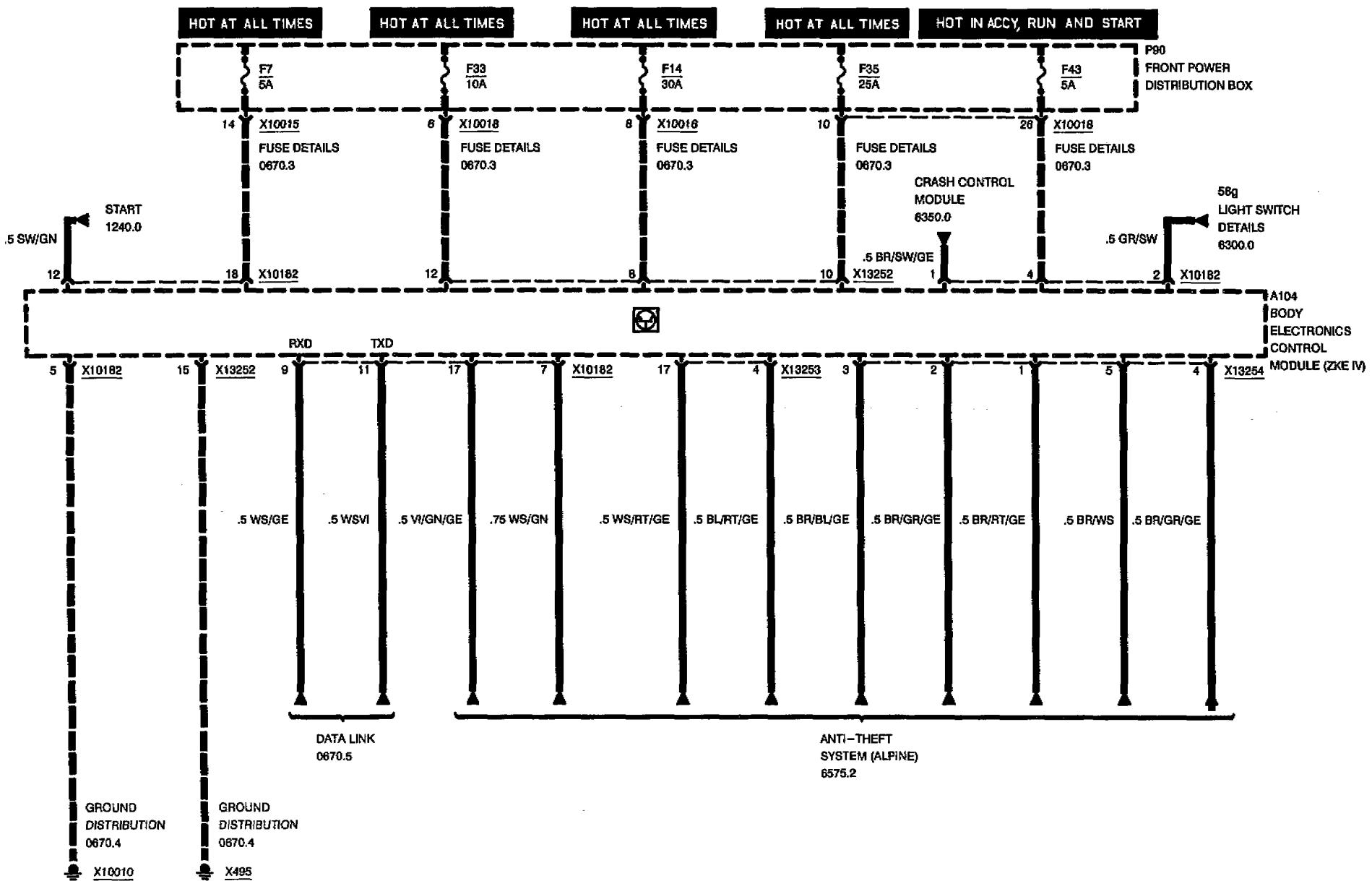
Pin	Type	Description/Function	Connection
12	E	DATA signal	Central body electronic module
13	E/A	DATA signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground



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6100.0



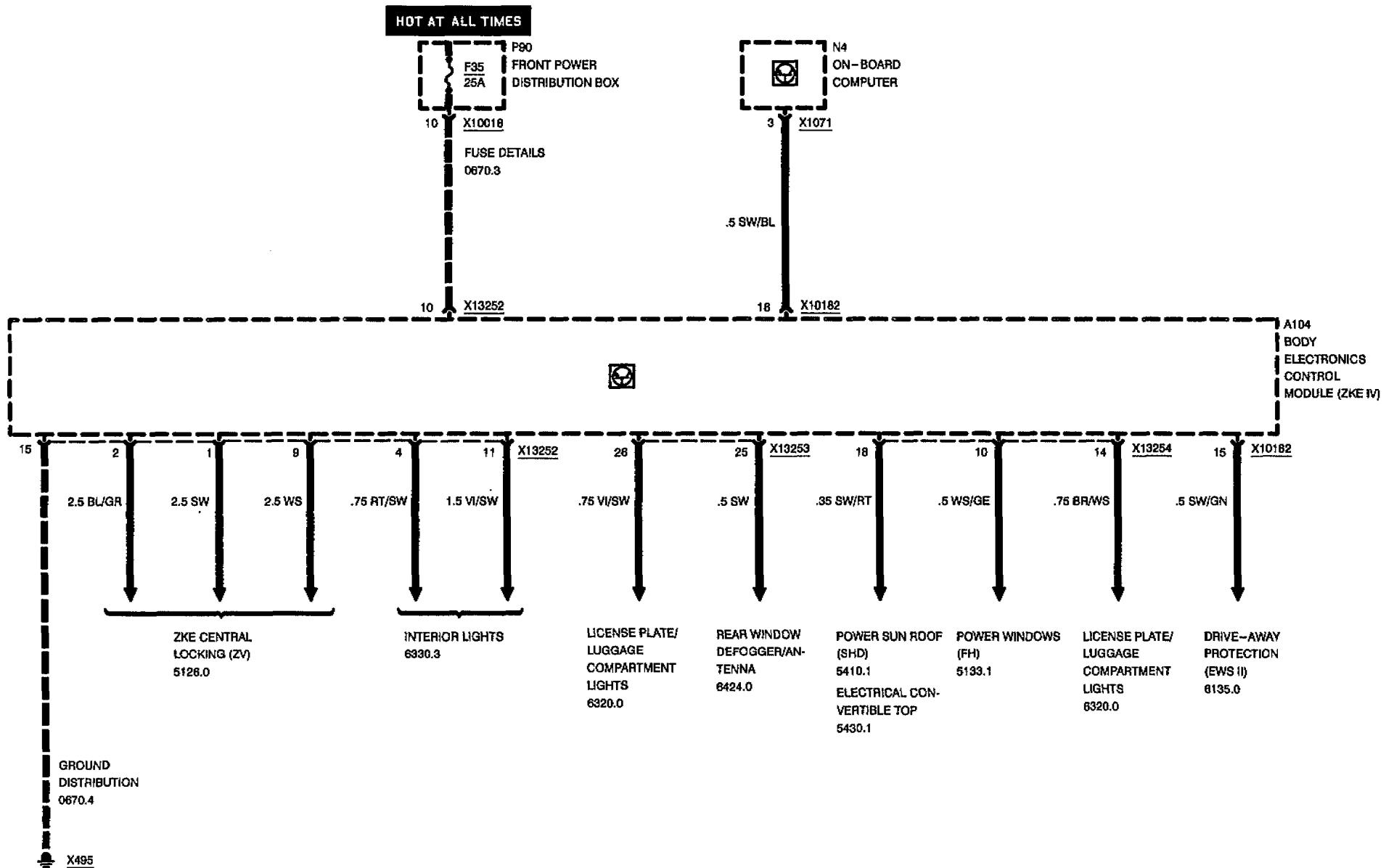


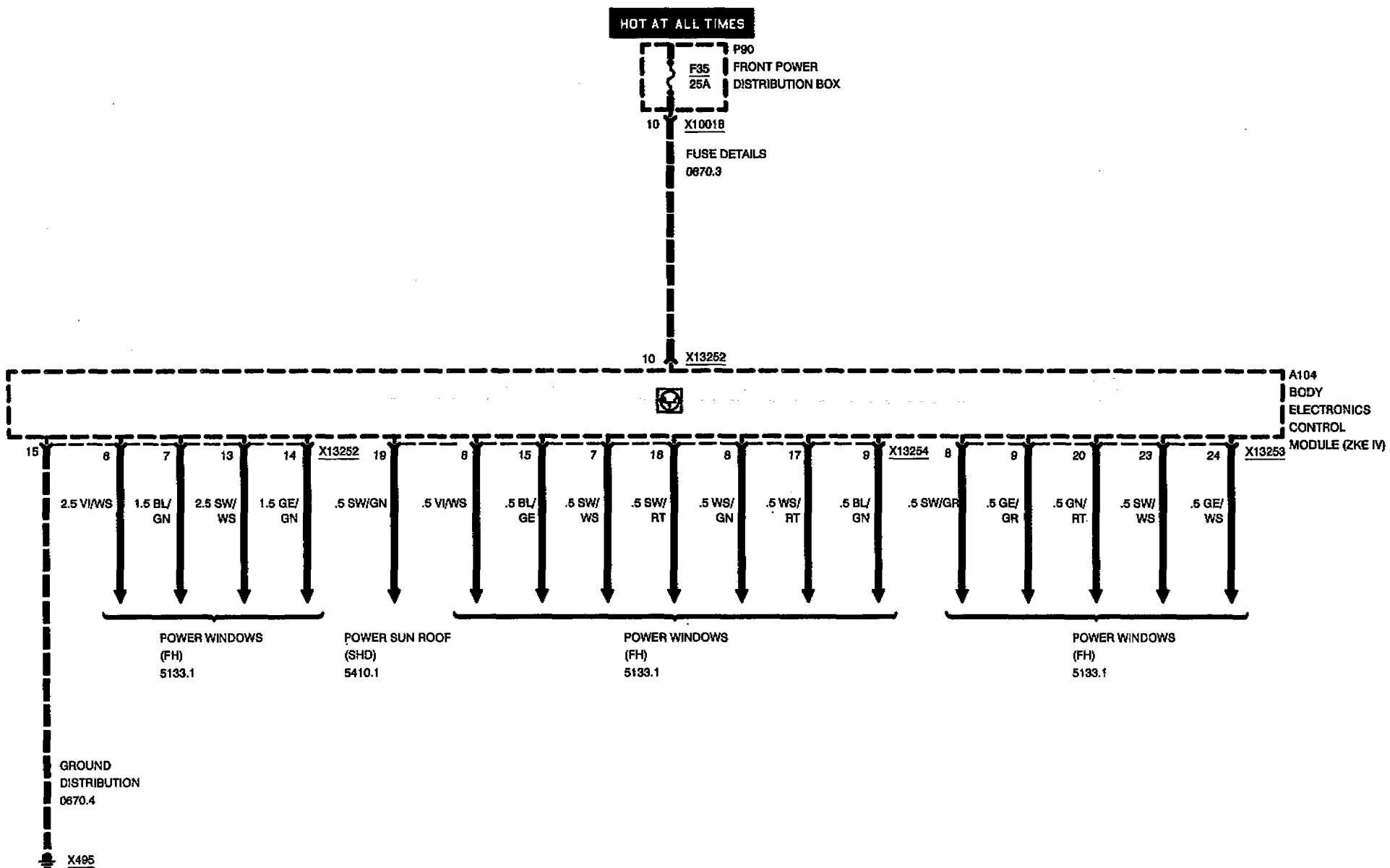
## CENTRAL BODY ELECTRONICS (ZKE IV)

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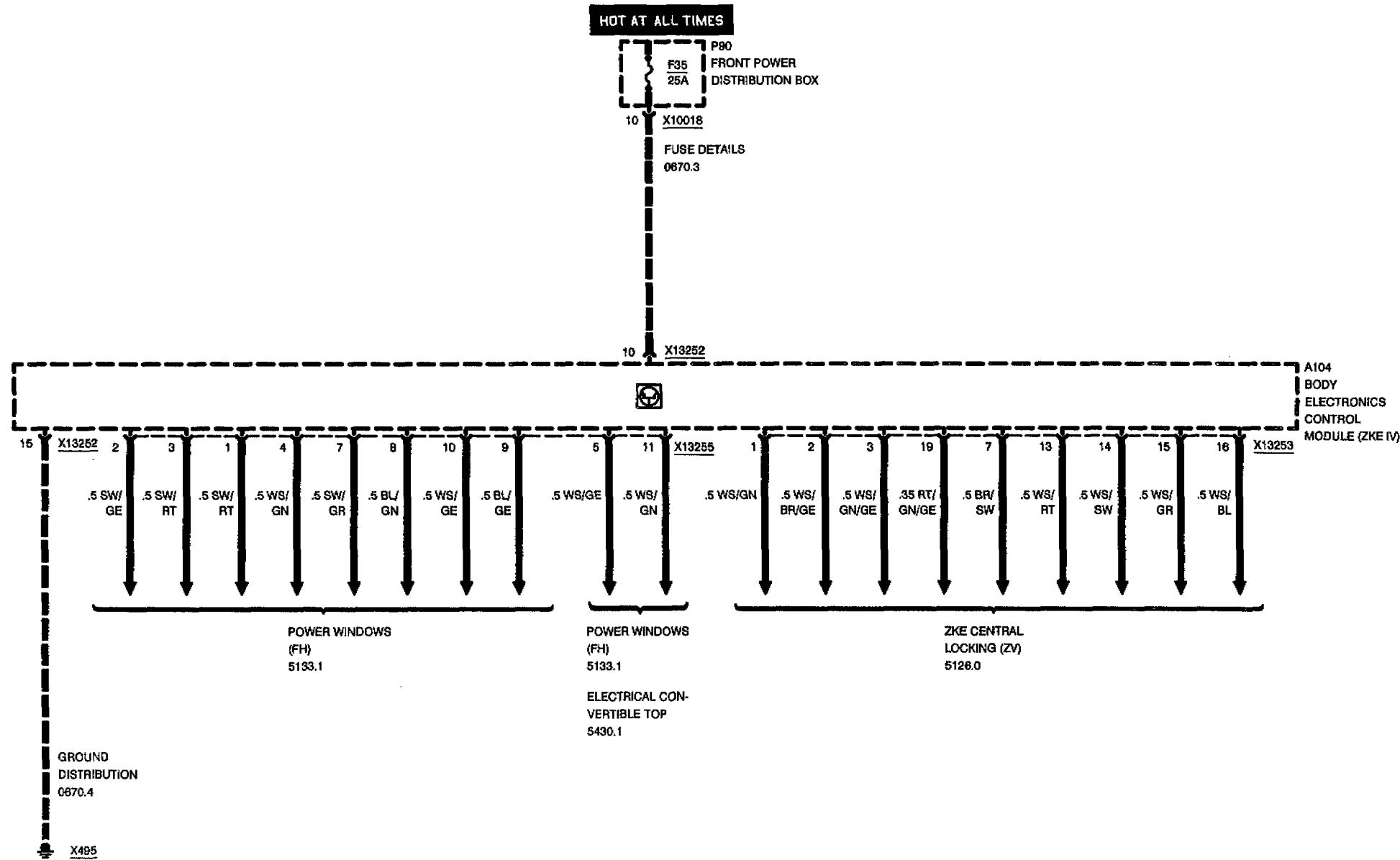
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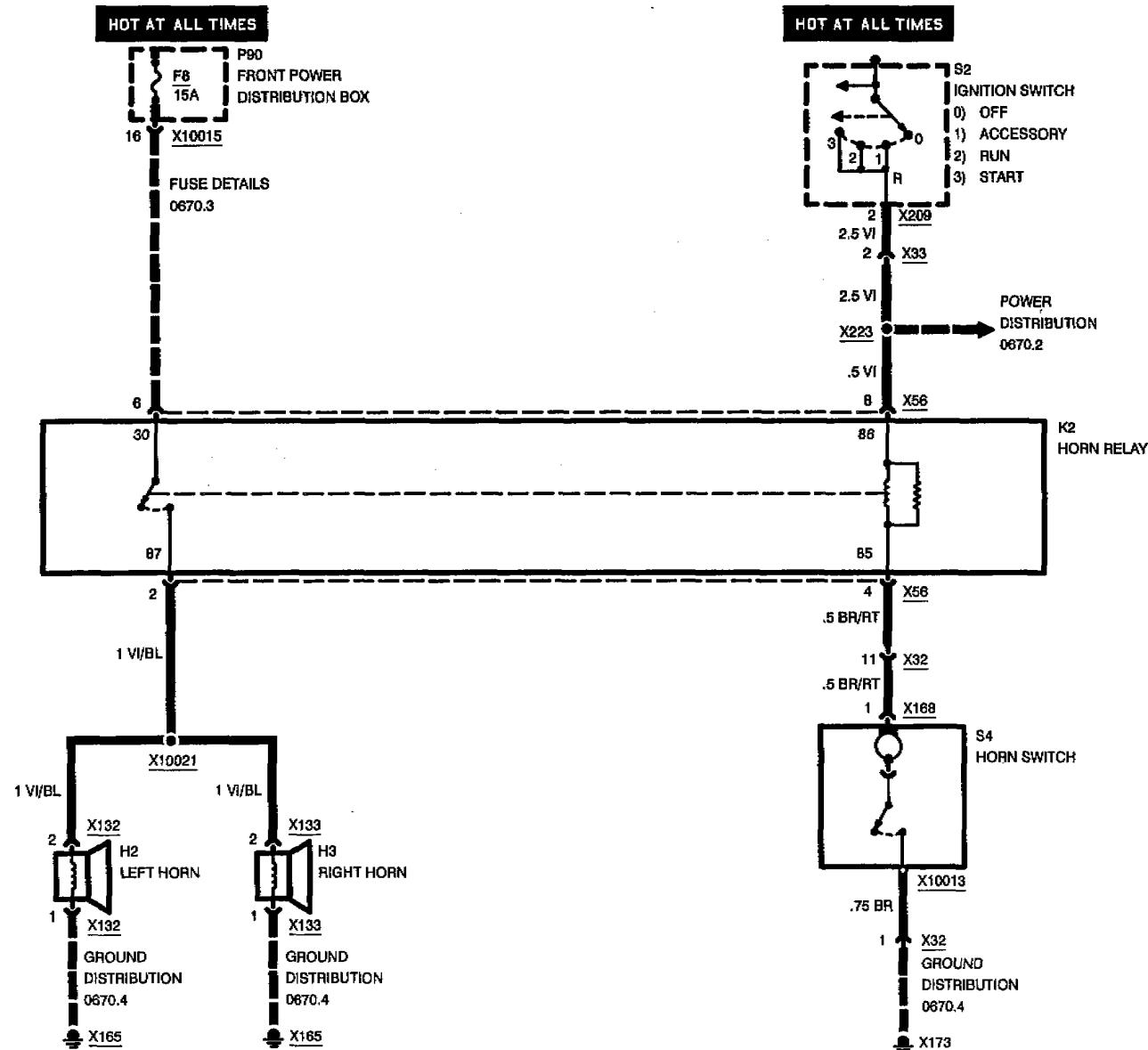






## CENTRAL BODY ELECTRONICS (ZKE IV)

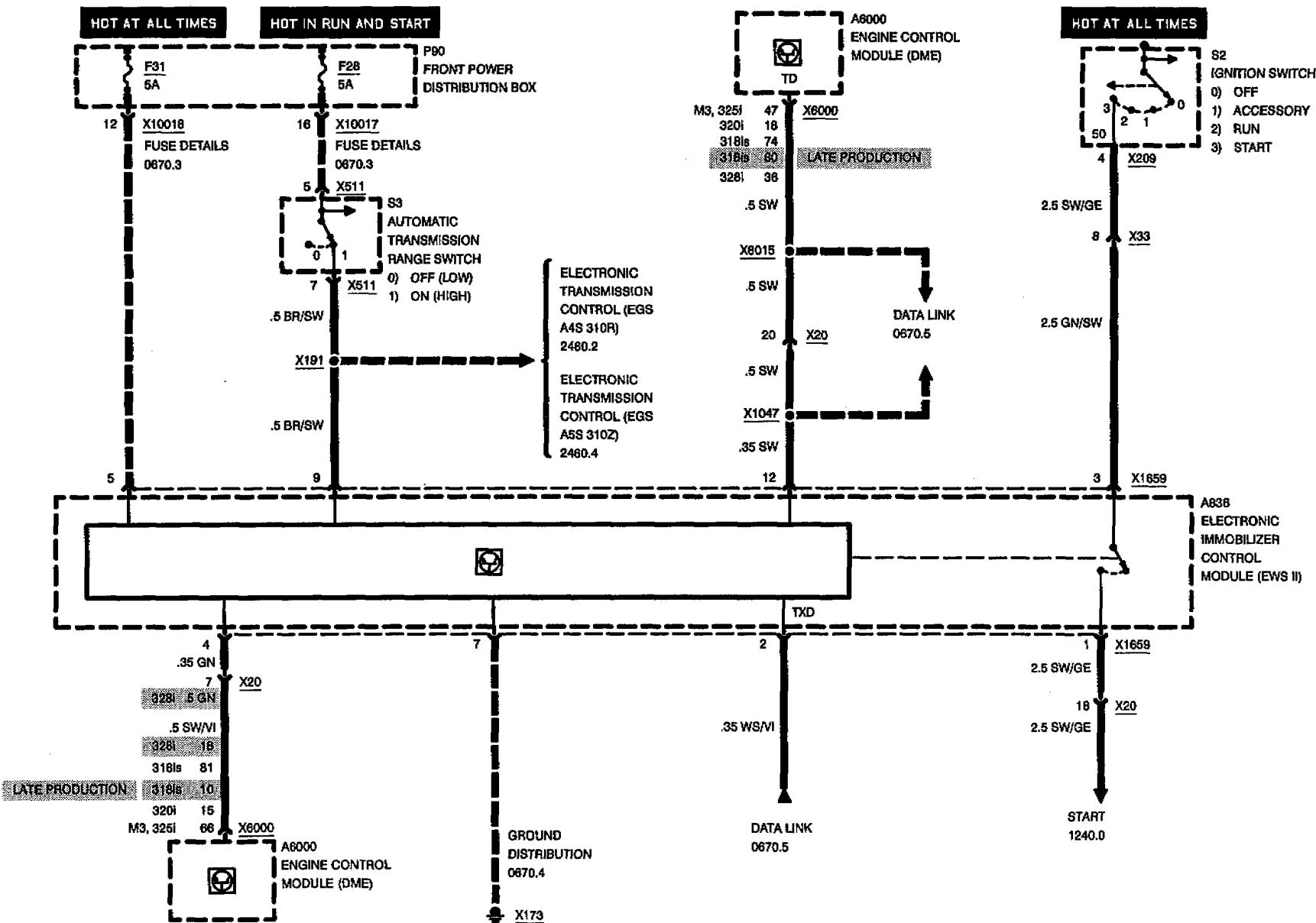






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## DRIVE-AWAY PROTECTION (EWS II)



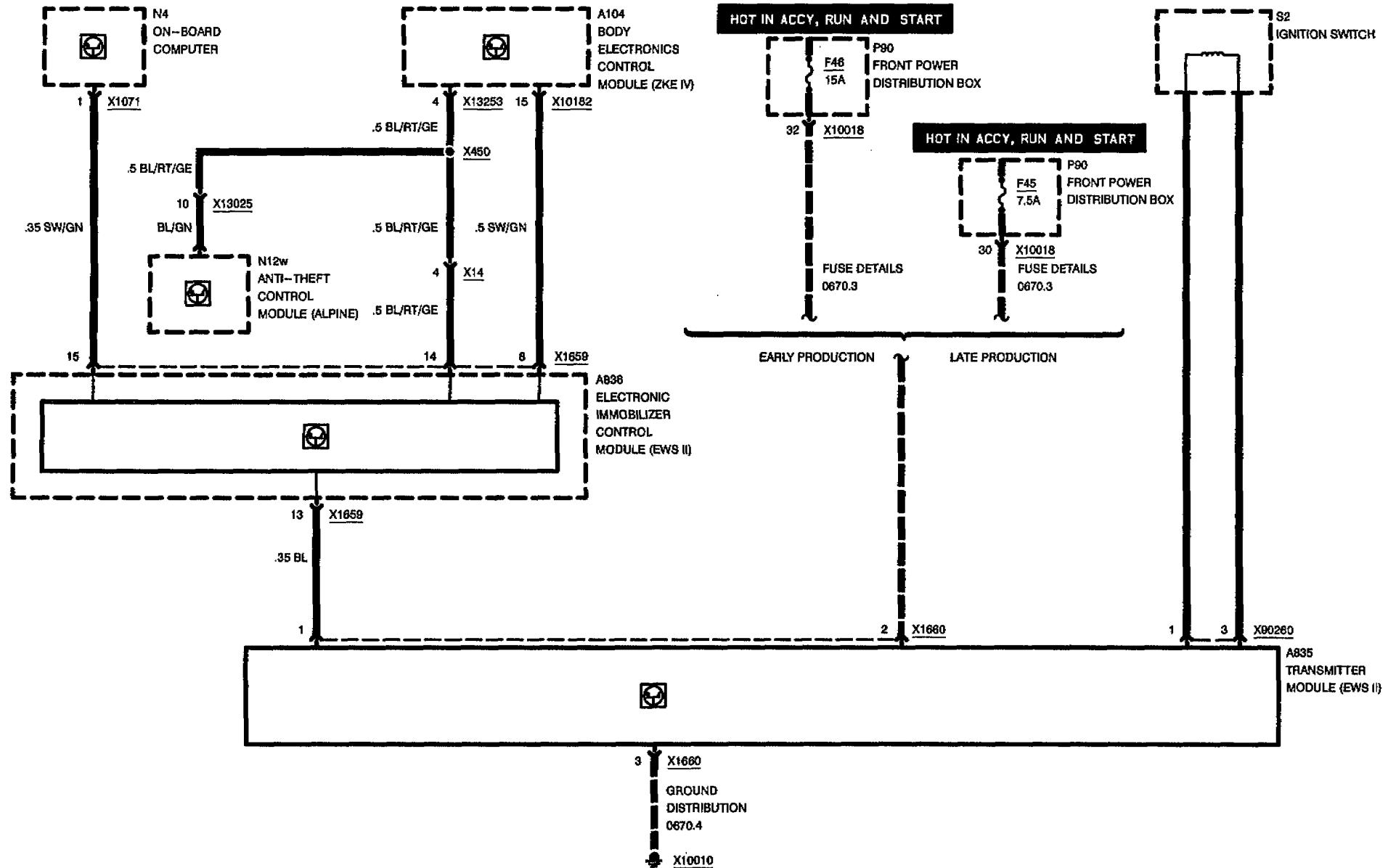


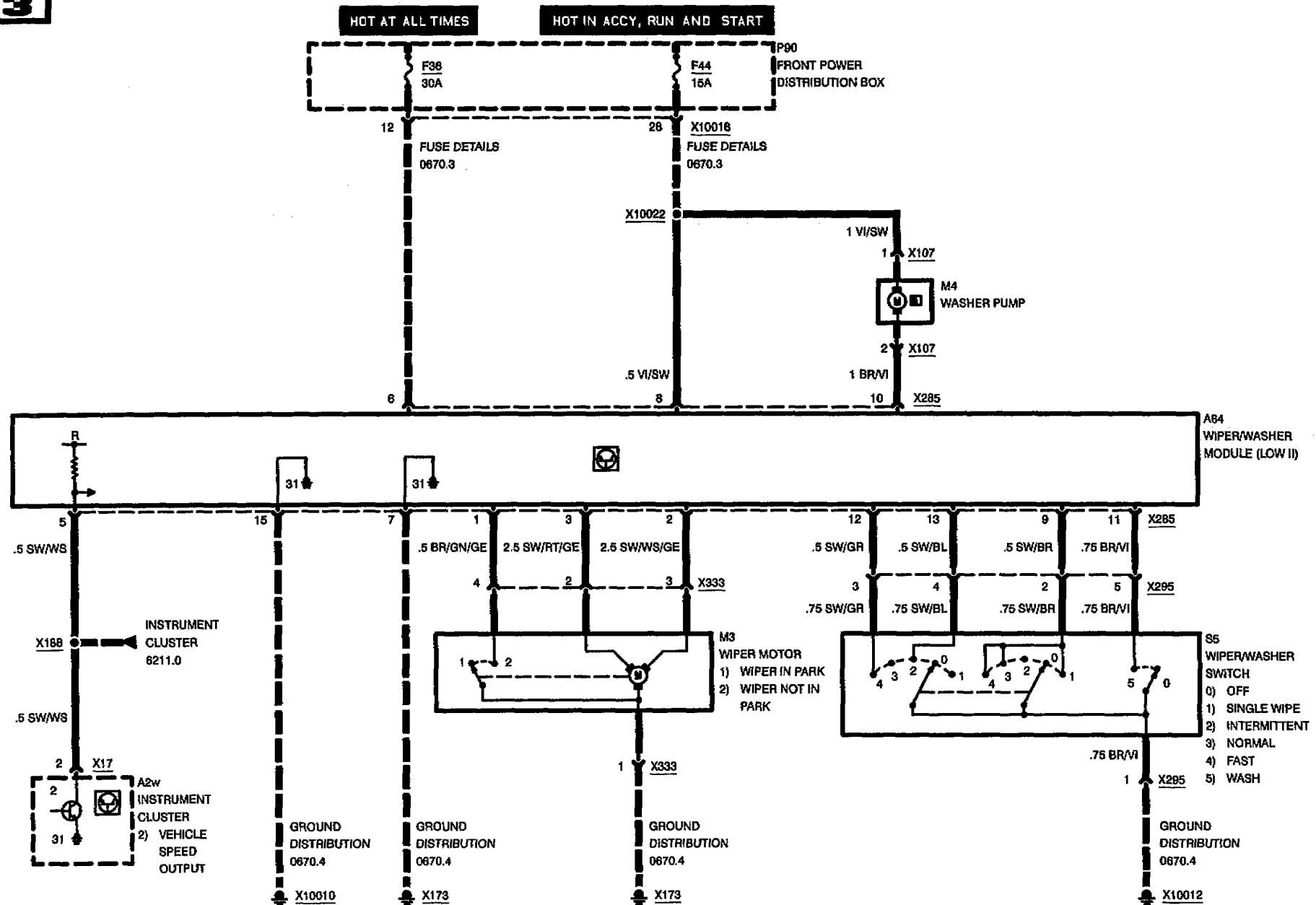
## DRIVE-AWAY PROTECTION (EWS II)

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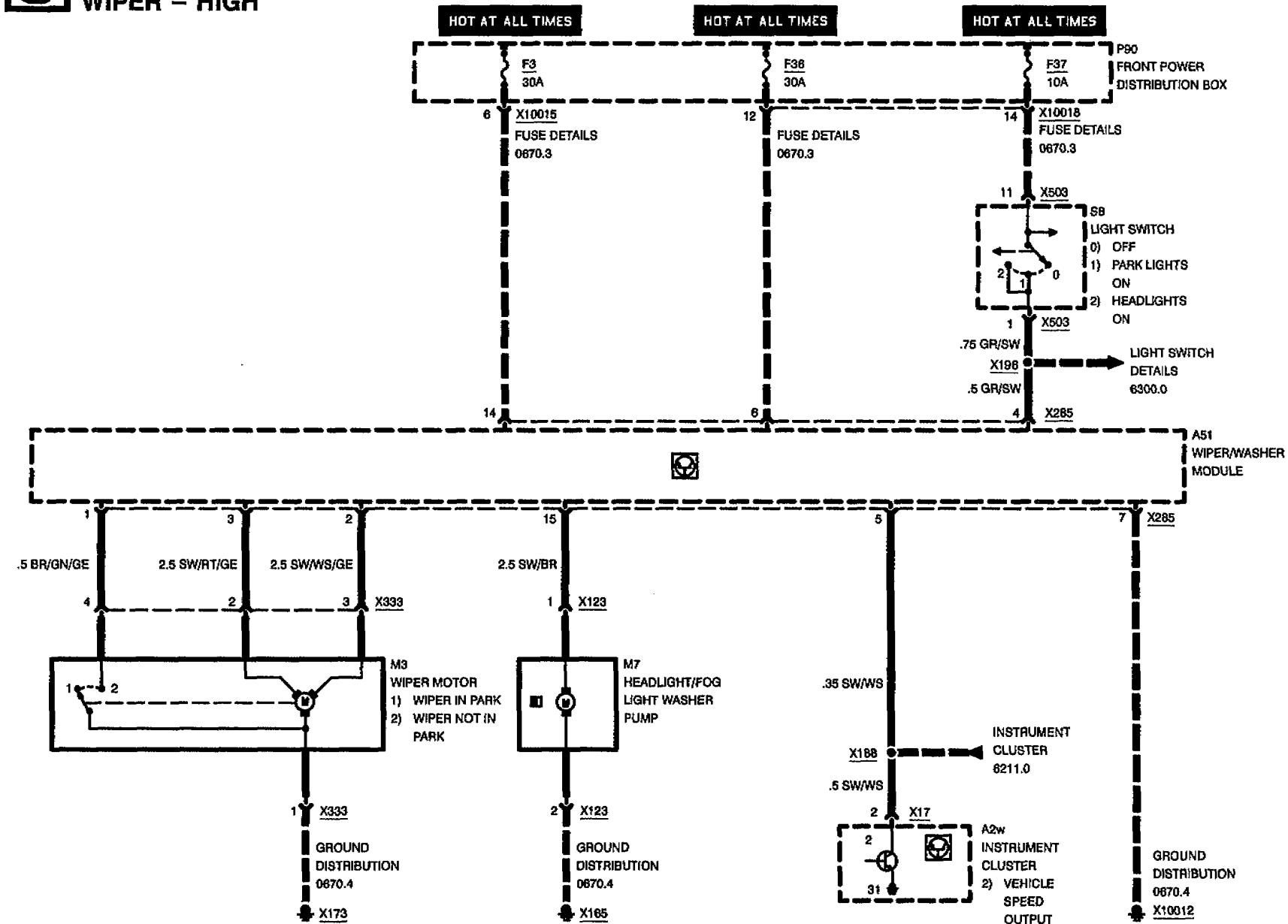






## WIPER/WASHER MODULE (WWM)

### WIPER - HIGH





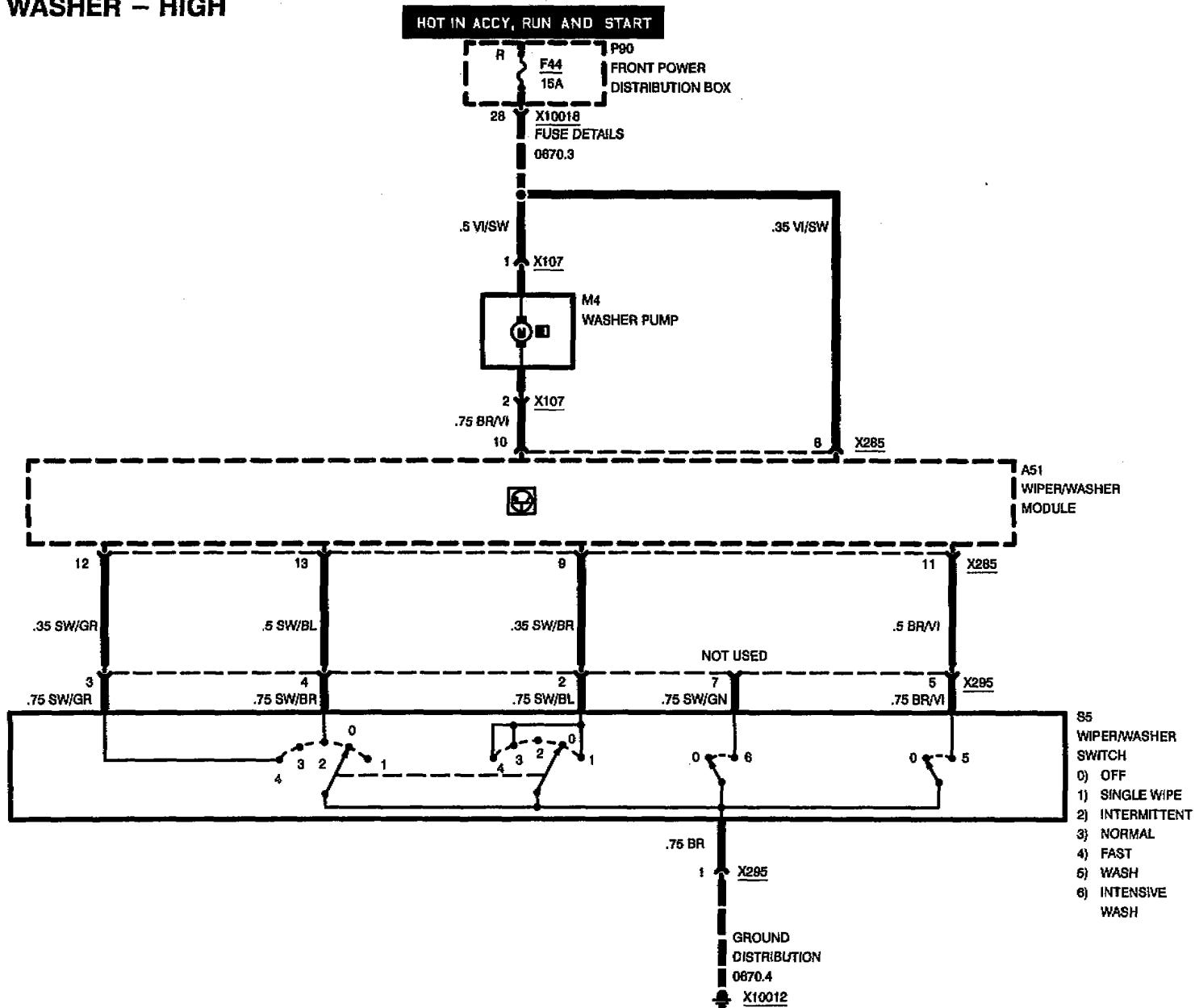
# WIPER/WASHER MODULE (WWM)

## WASHER - HIGH

04/97

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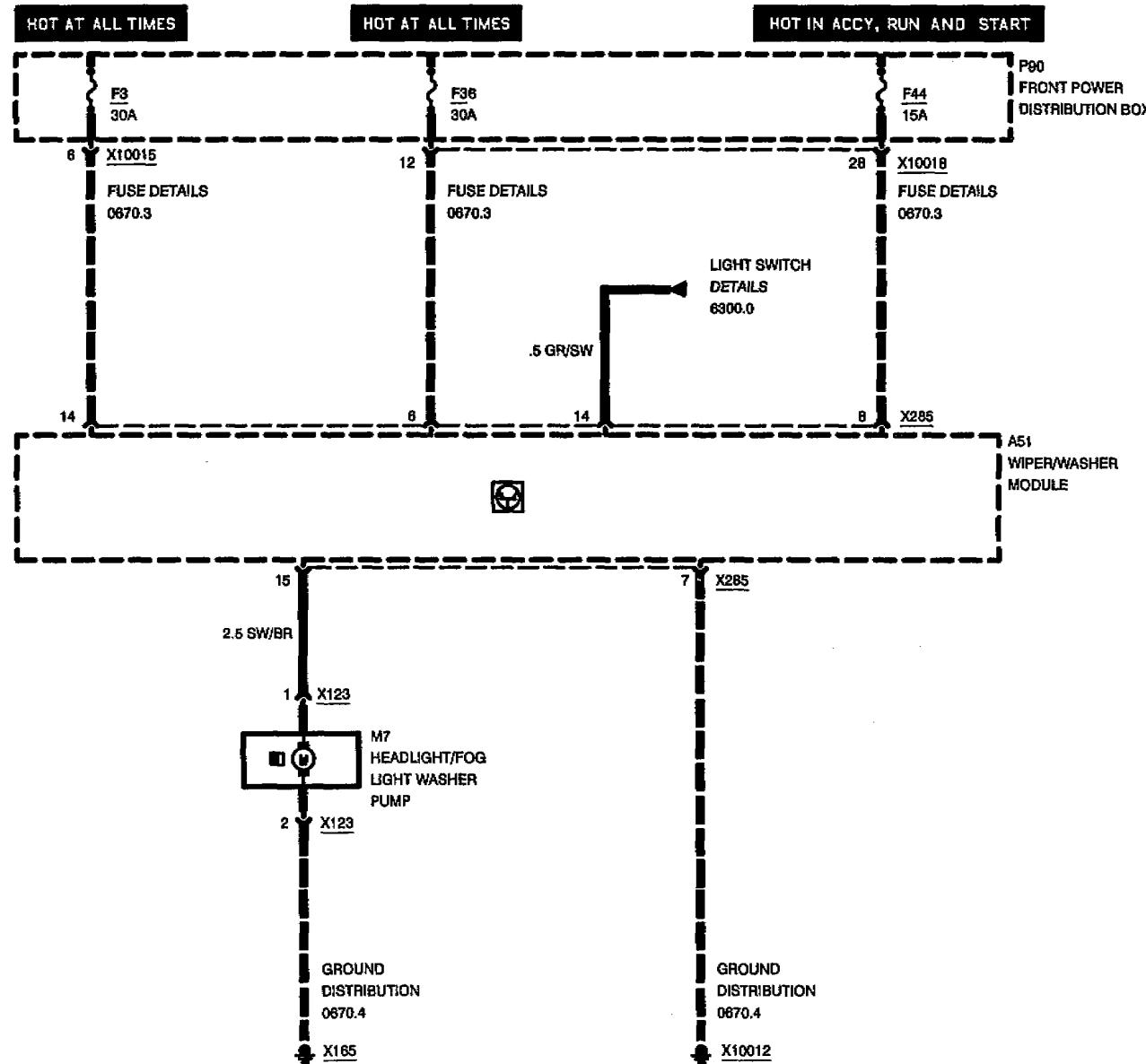
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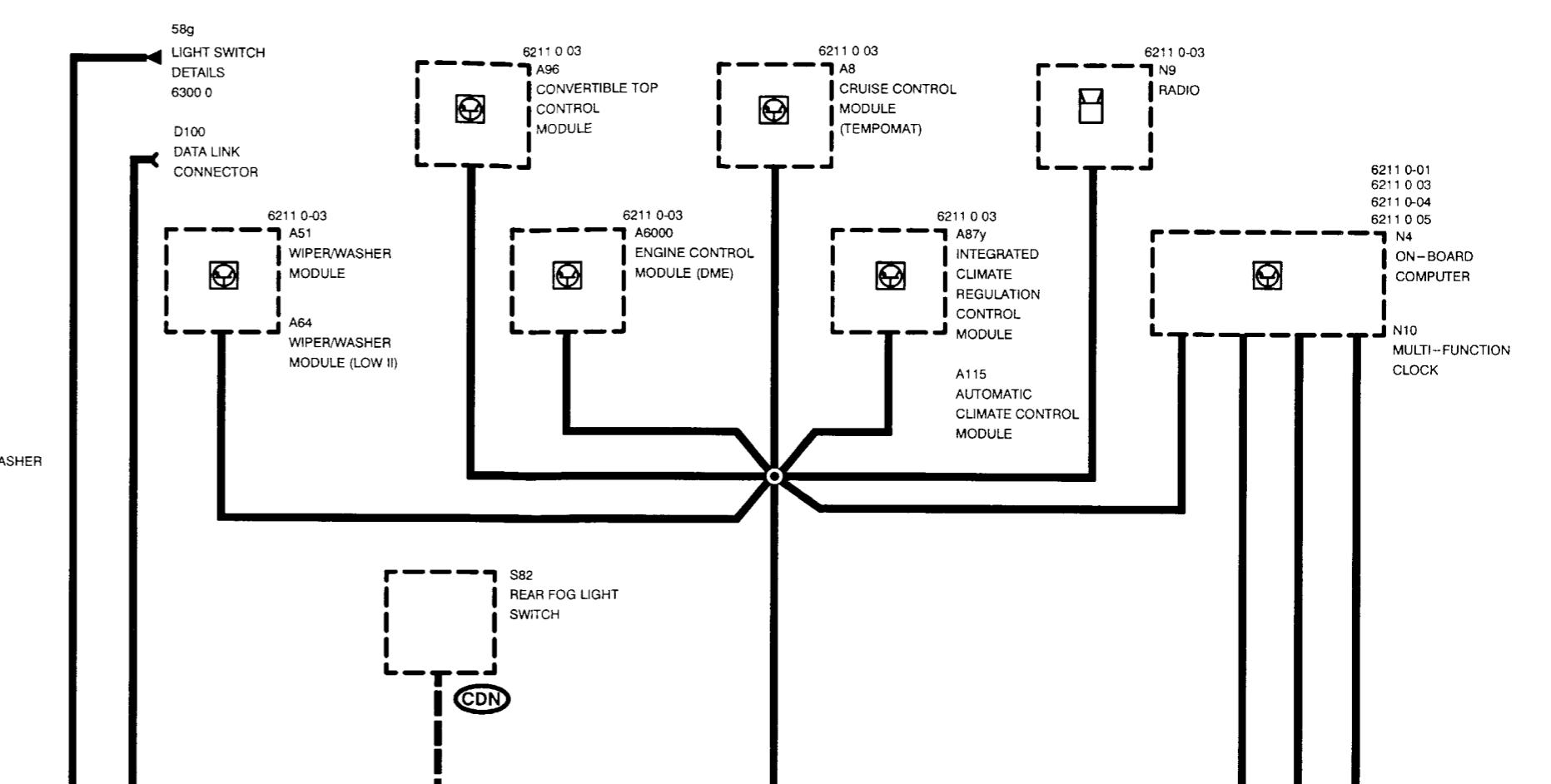
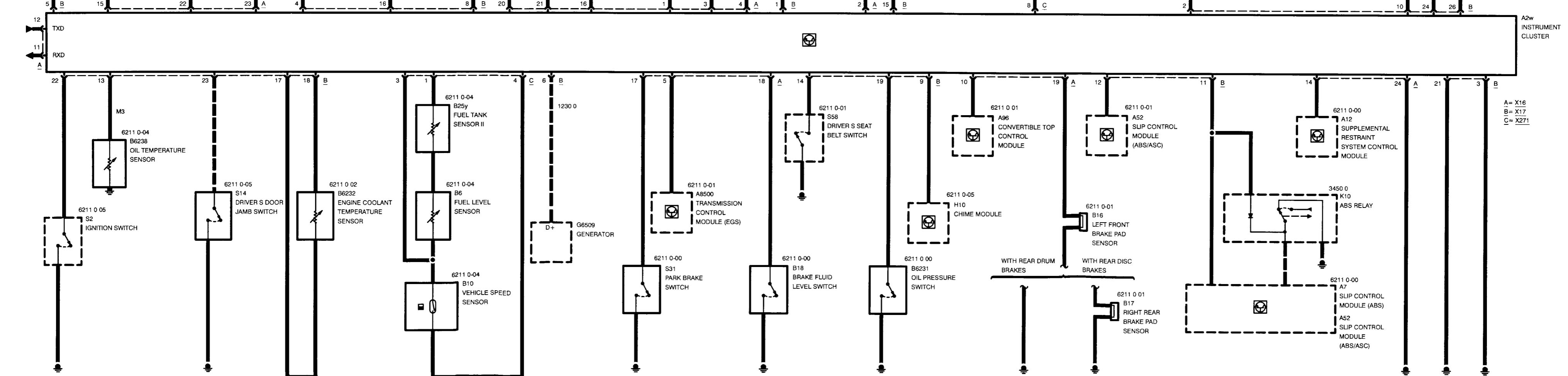
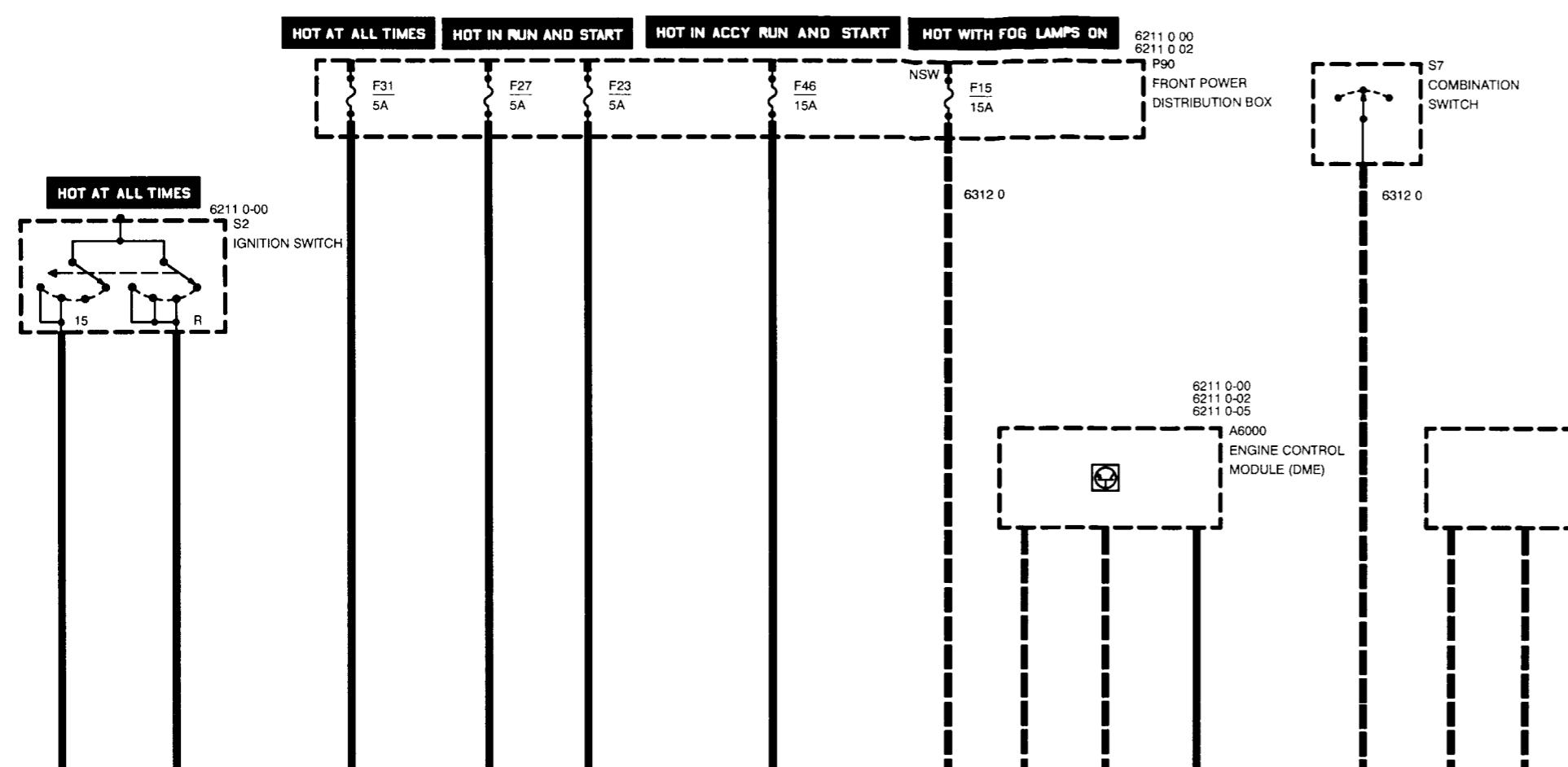


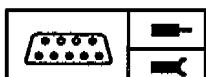


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## HEADLIGHT WASHER (SRA)







## 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 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

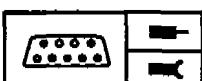


## Pin Assignments

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 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	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



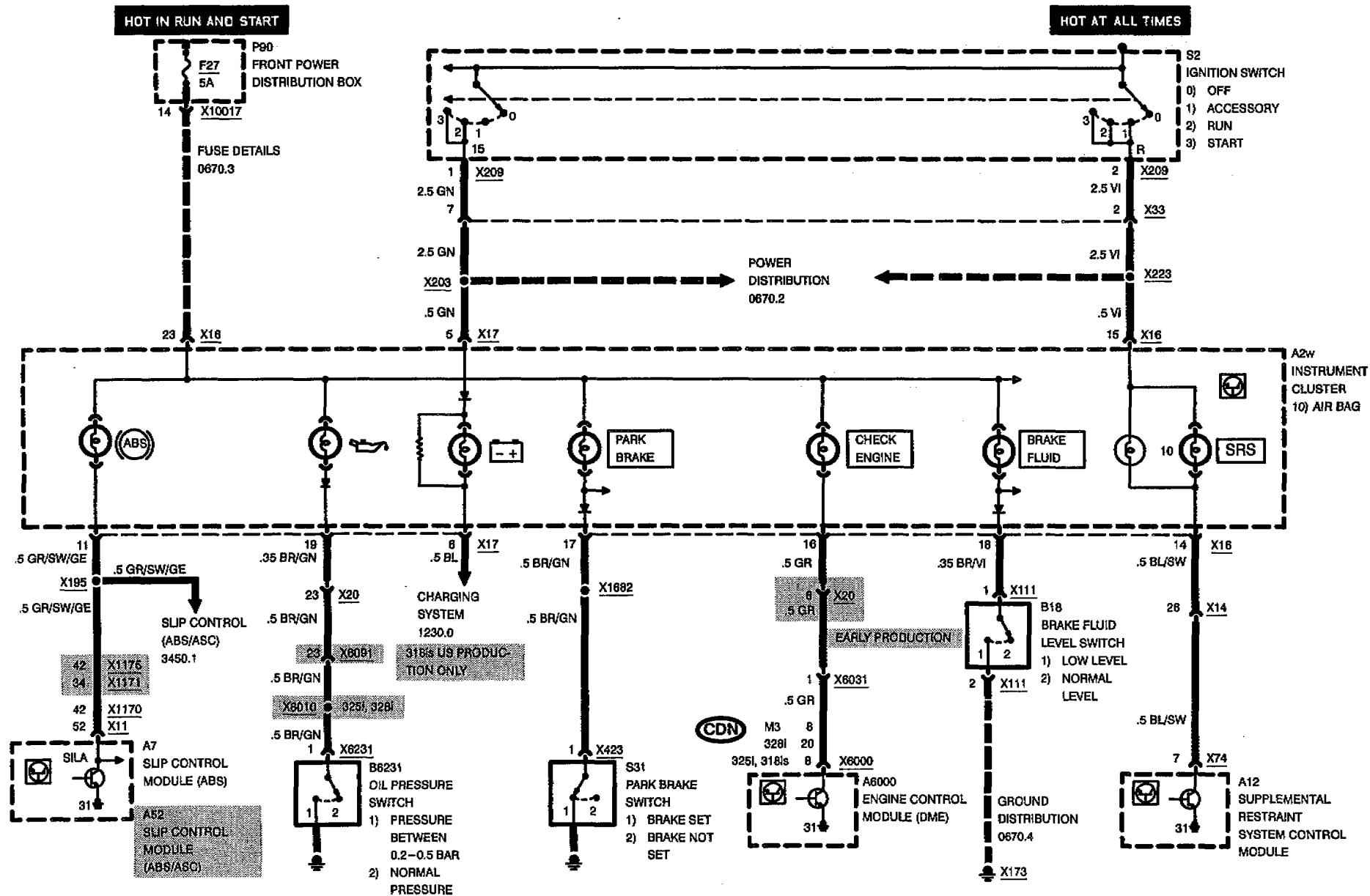
## Pin Assignments

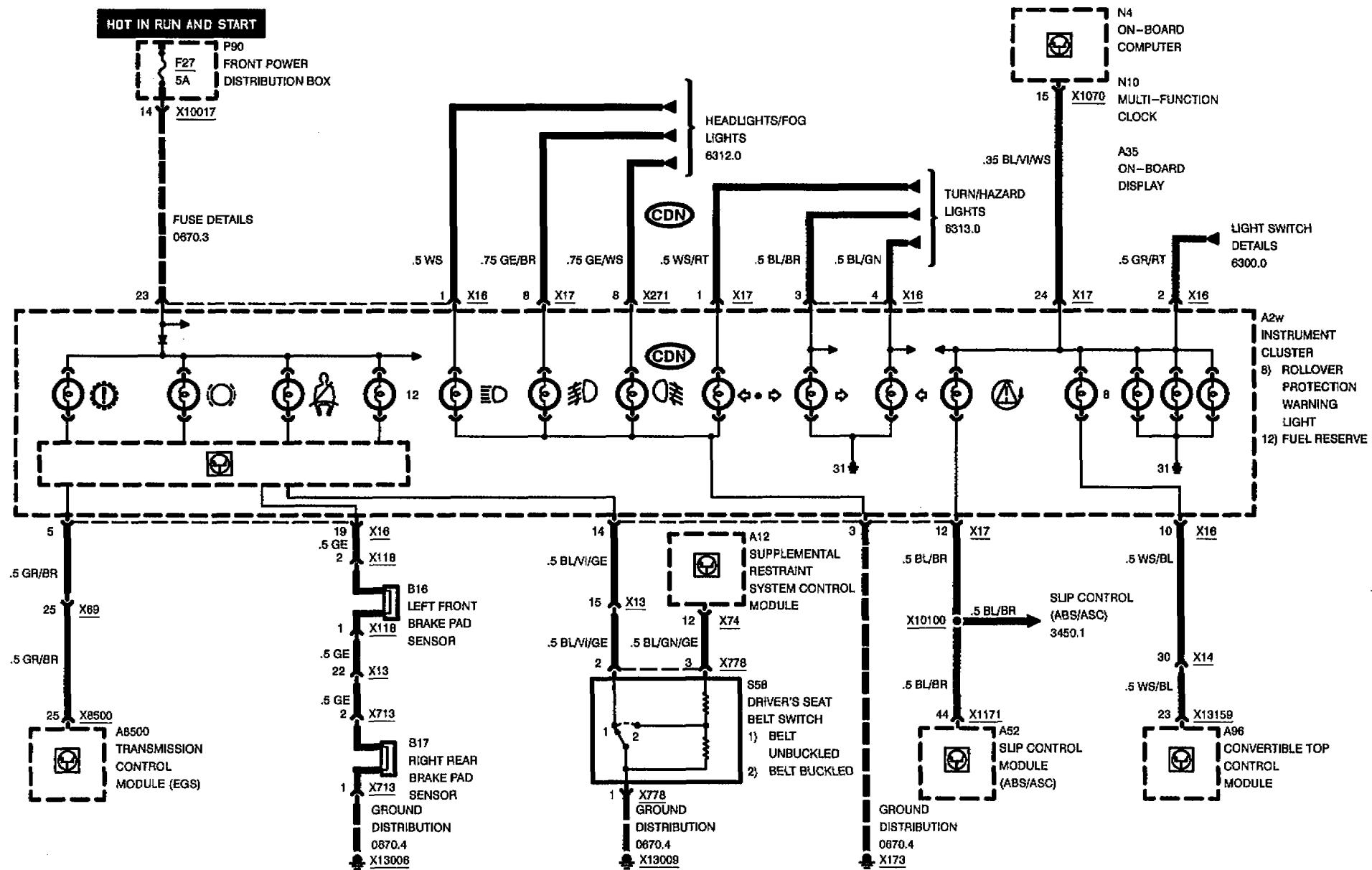
Pin	Type	Description/Function	Connection
25		Not used	
26	E	Central indicator lamp/check-control	On-board computer or multi-function clock

## 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







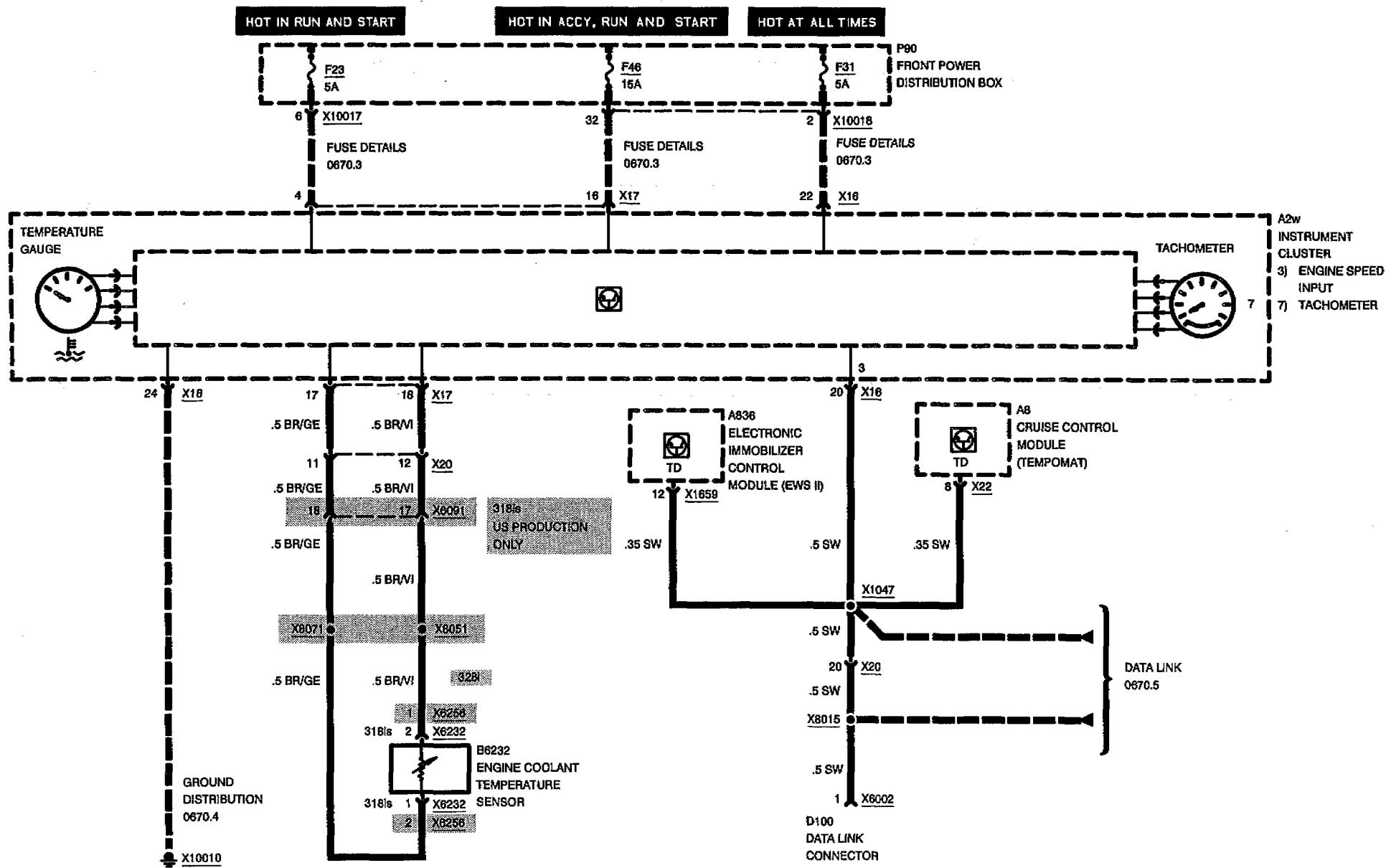
# INSTRUMENT CLUSTER

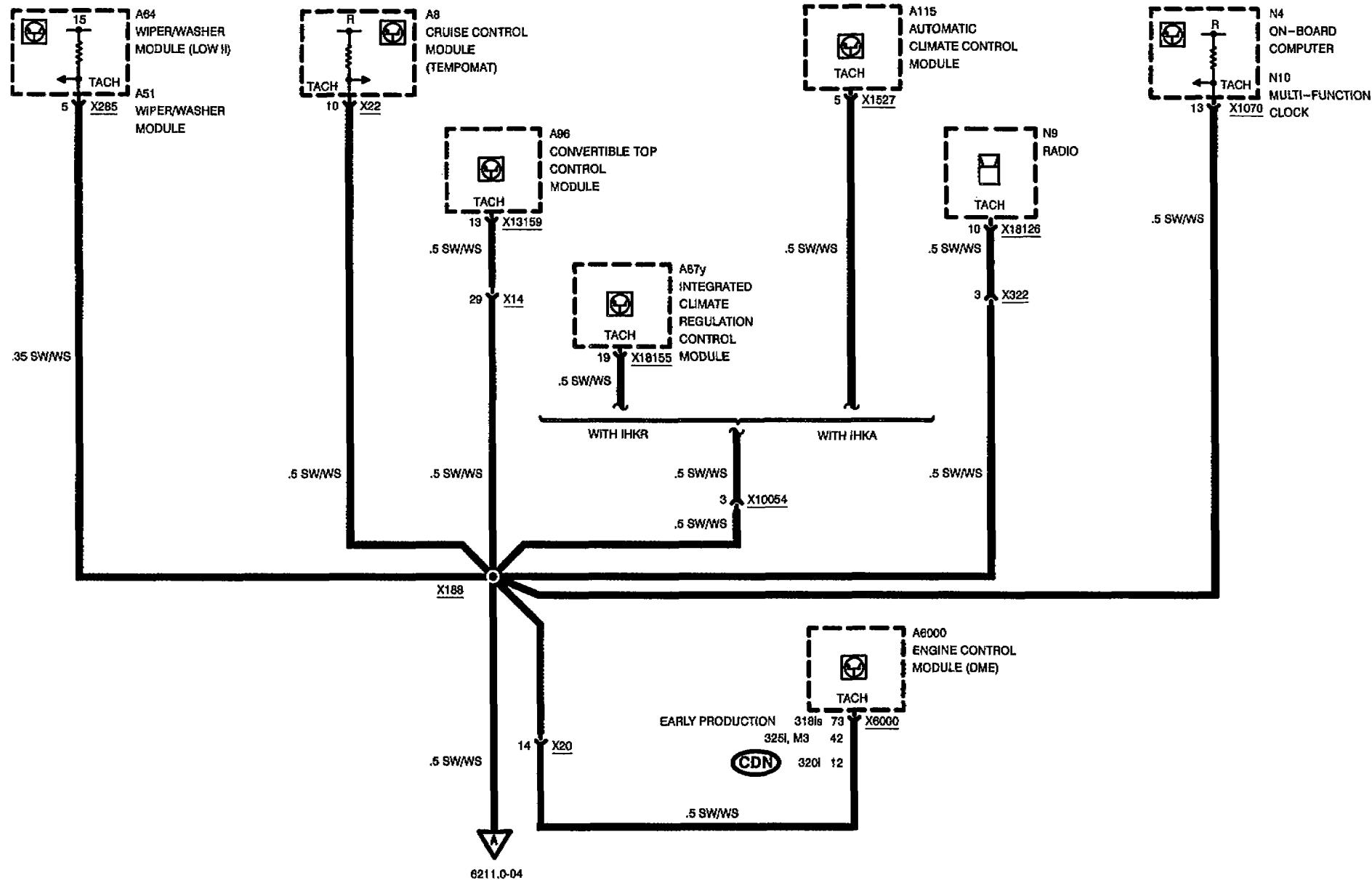
## INDICATORS

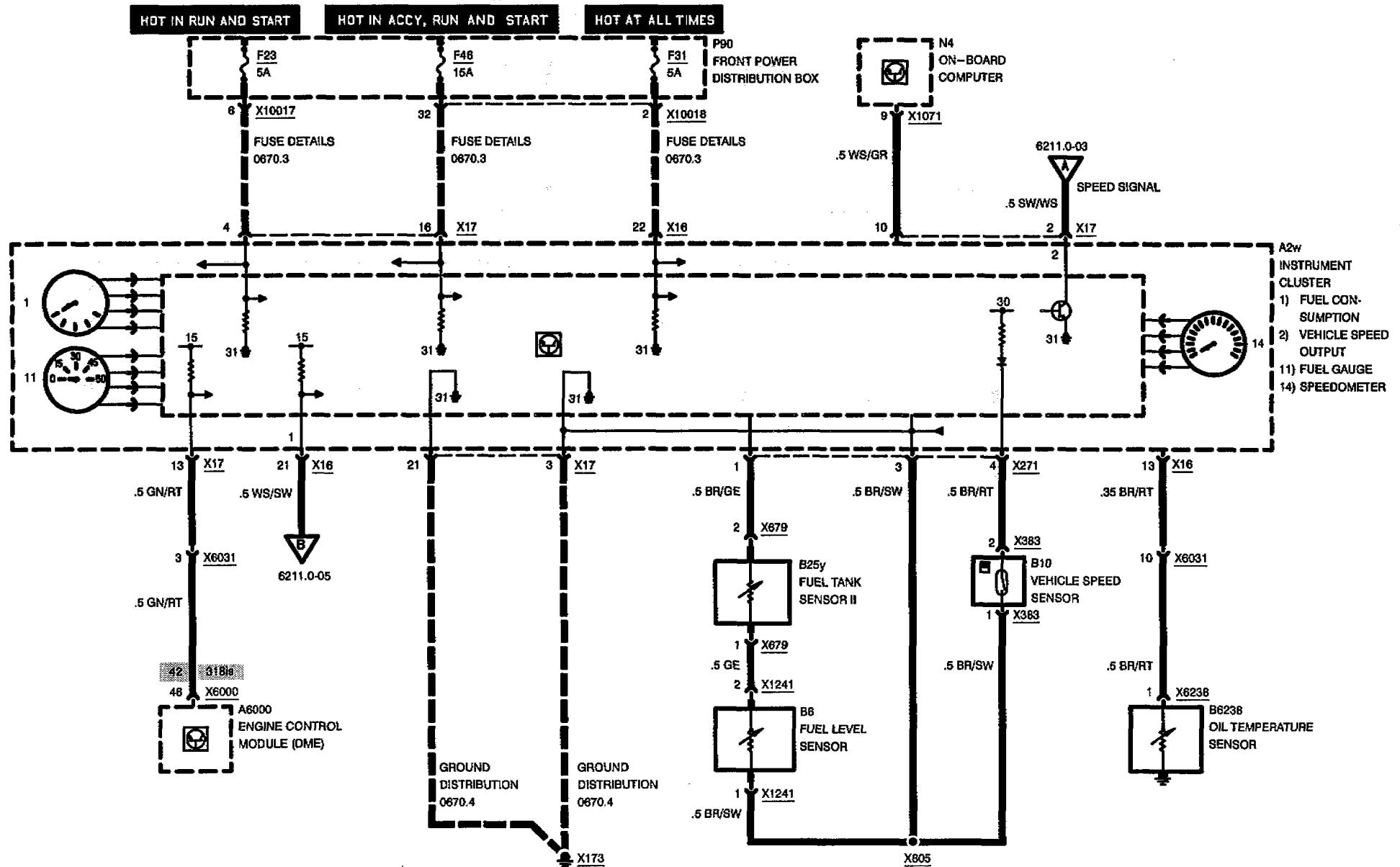
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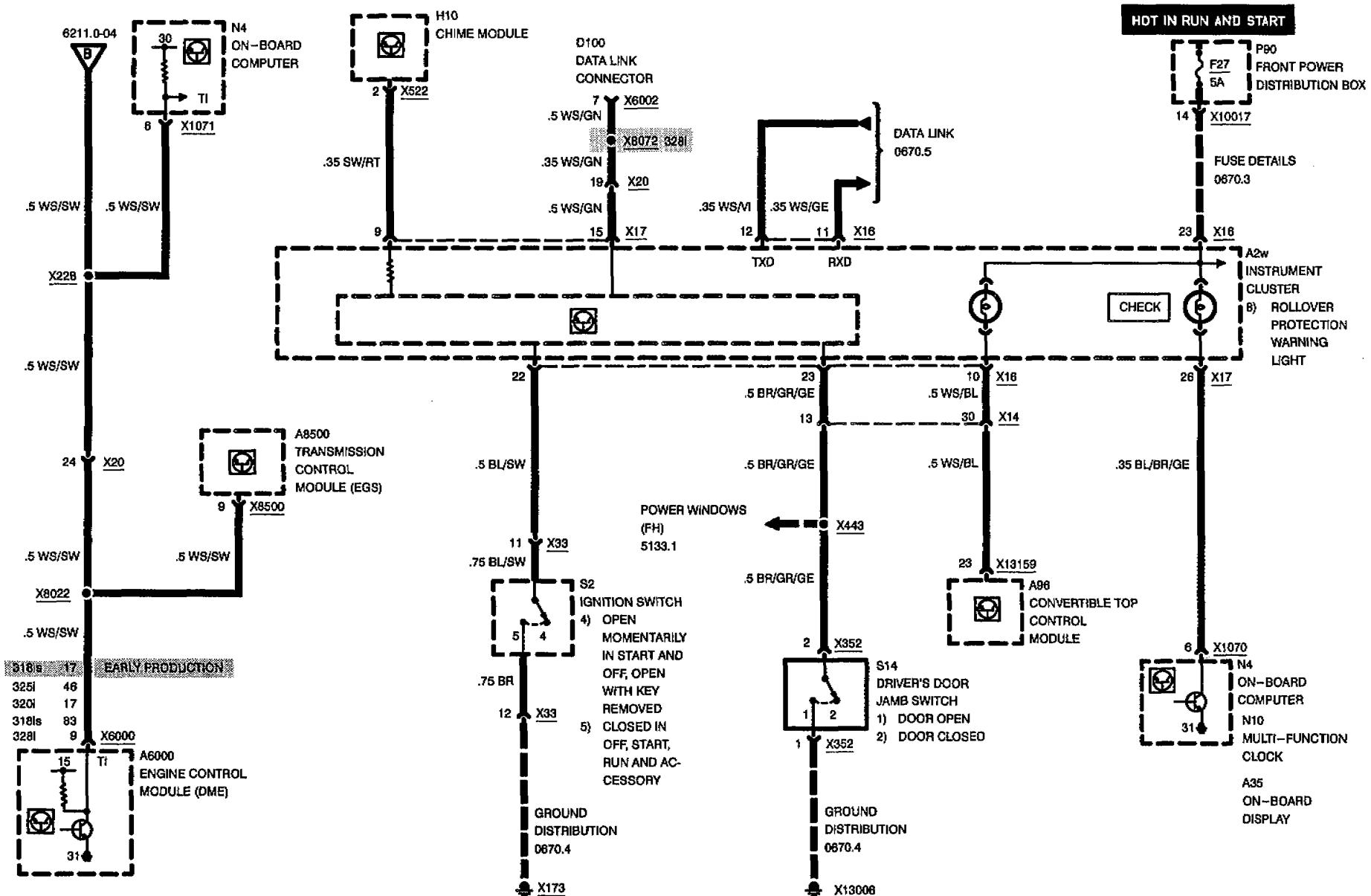


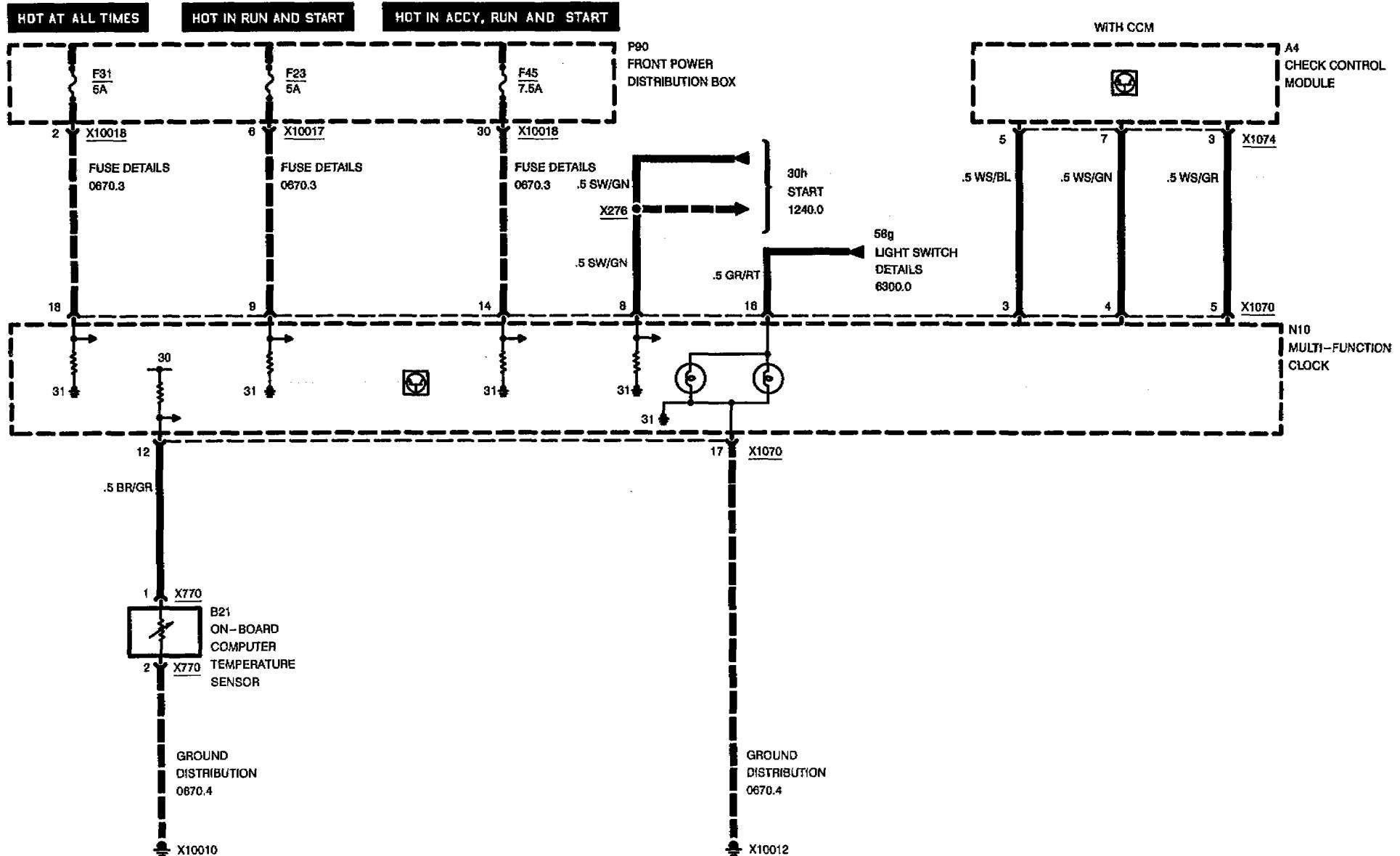


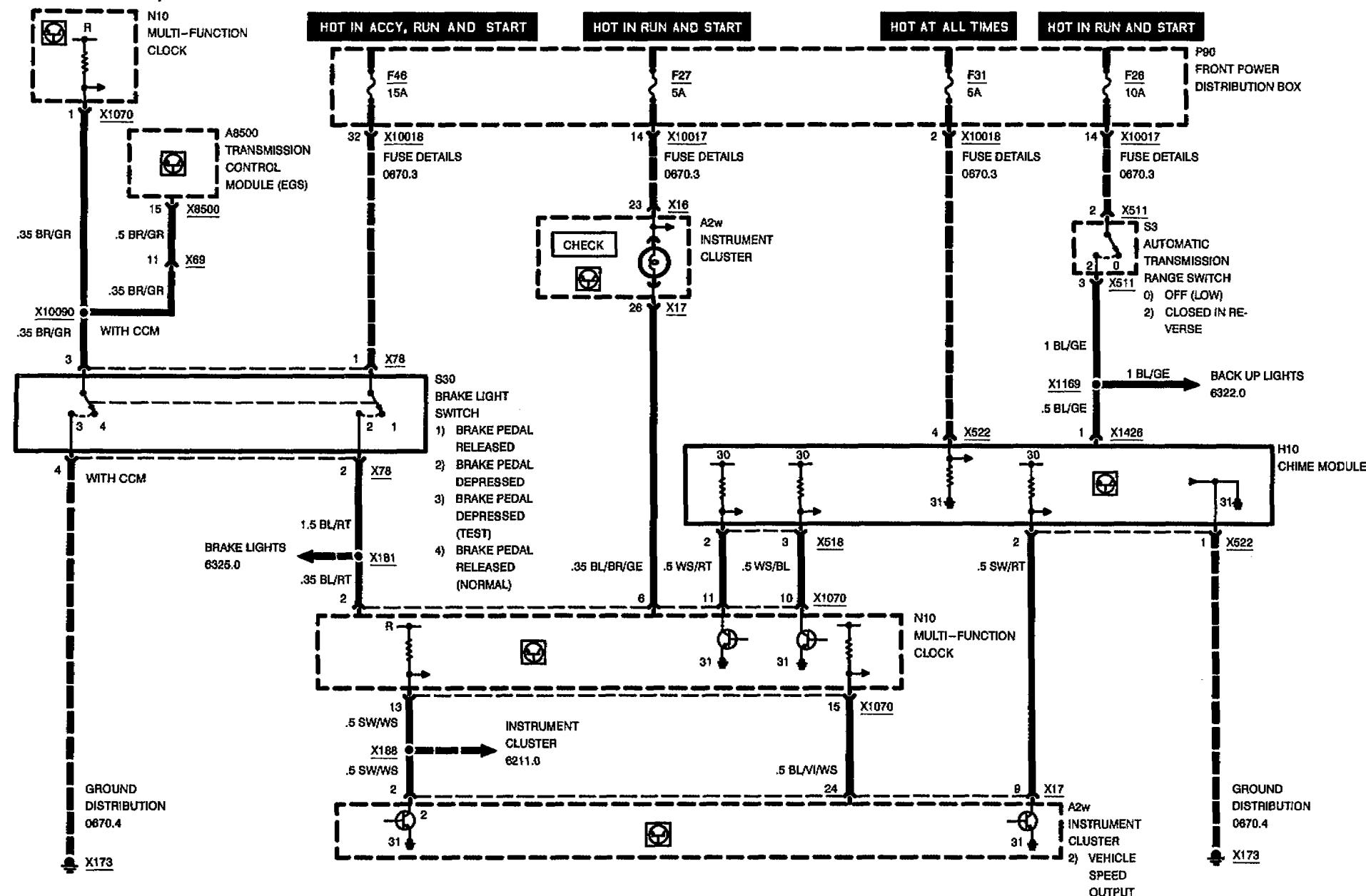


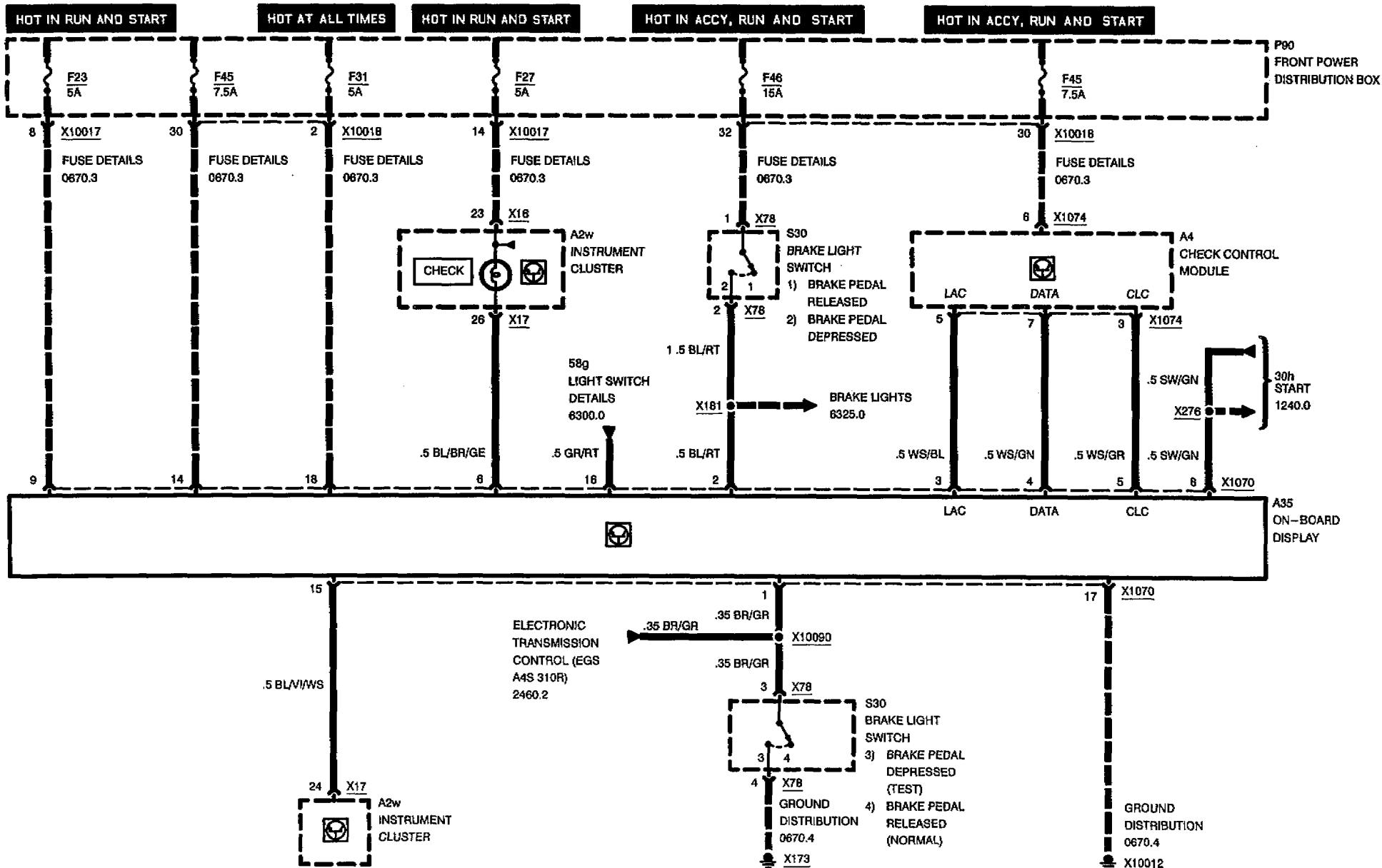
# INSTRUMENT CLUSTER

## INDICATORS





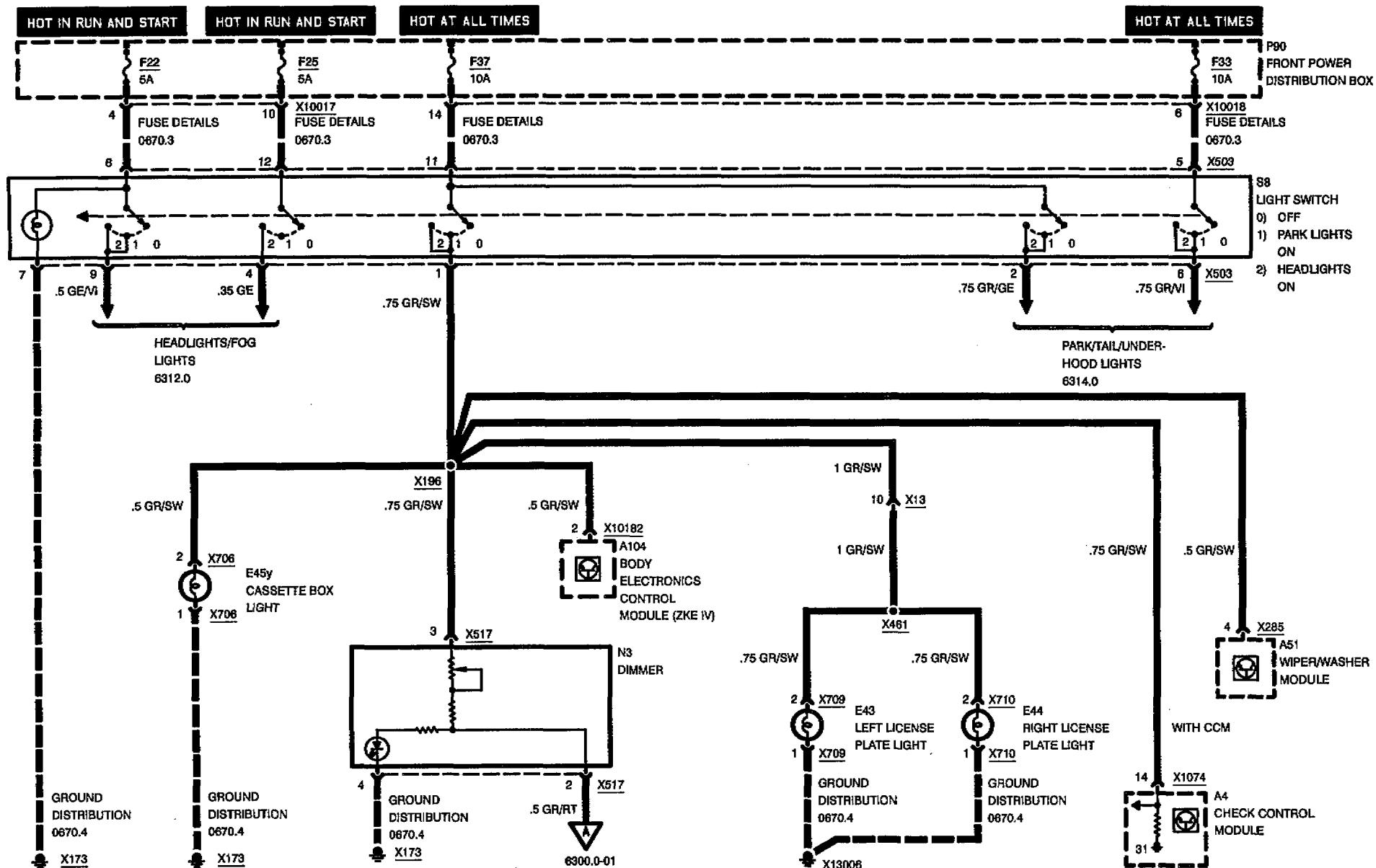
**MULTI-FUNCTION CLOCK****CHIME, BRAKE LIGHT SWITCH**





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## LIGHT SWITCH DETAILS

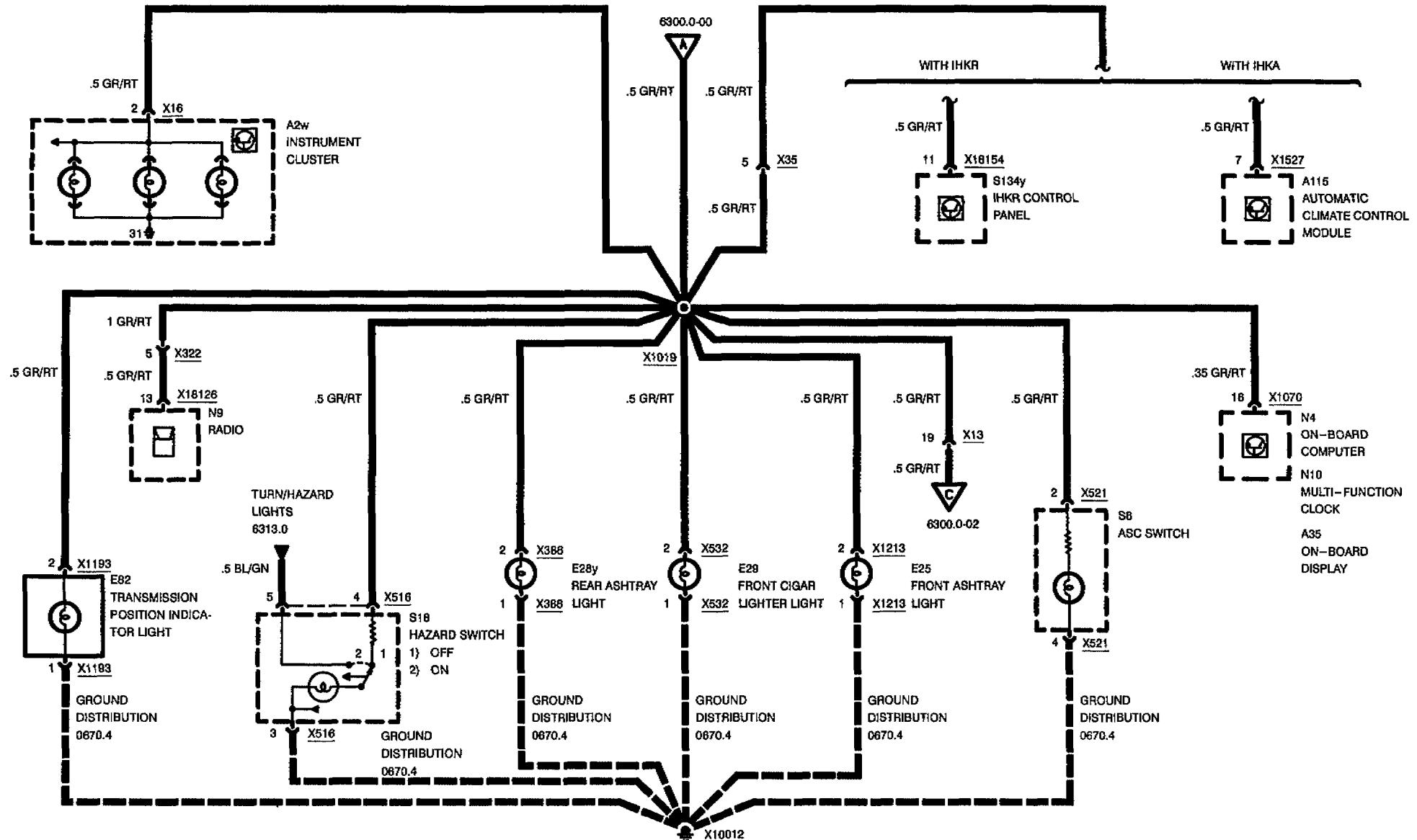




## LIGHT SWITCH DETAILS

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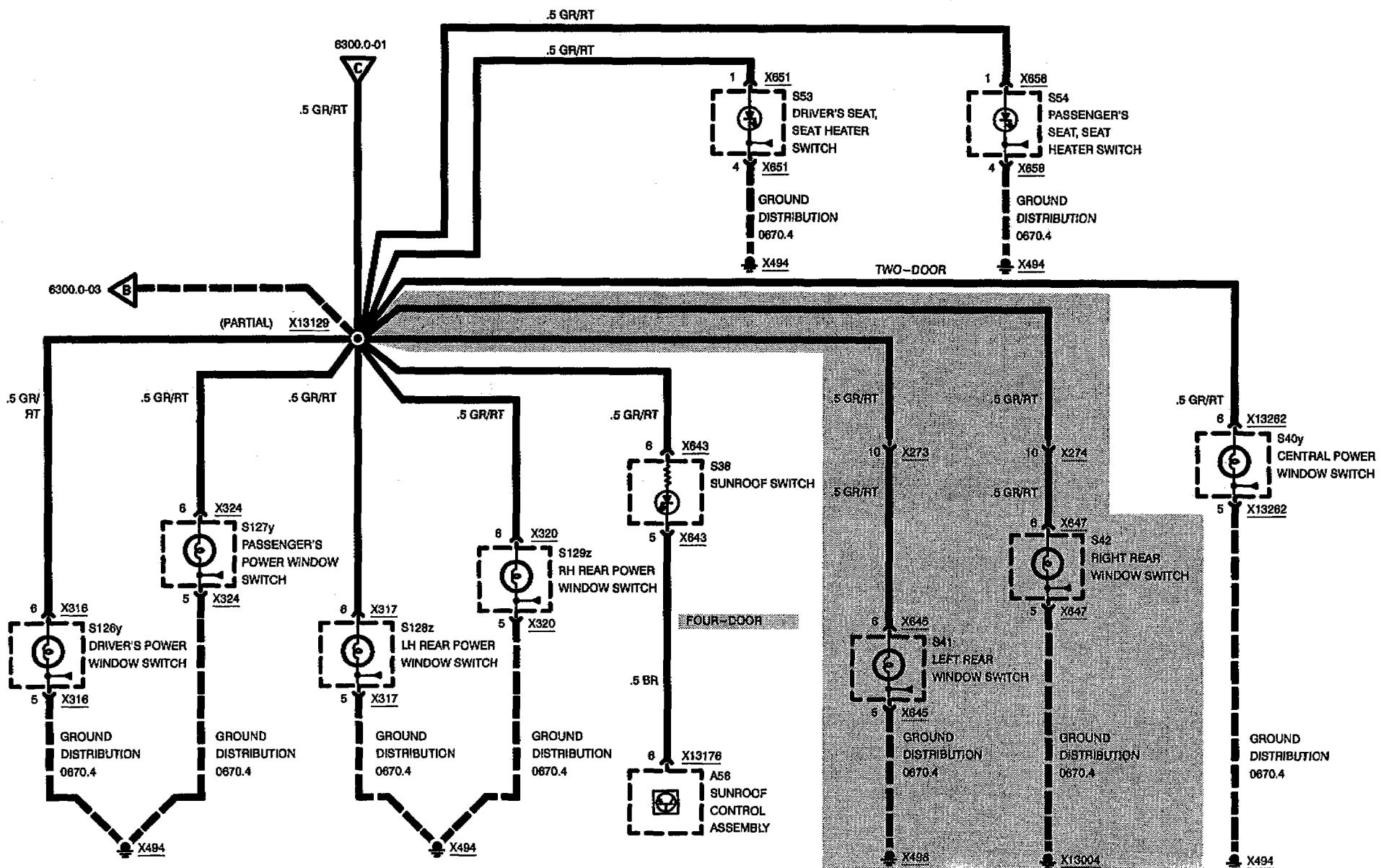


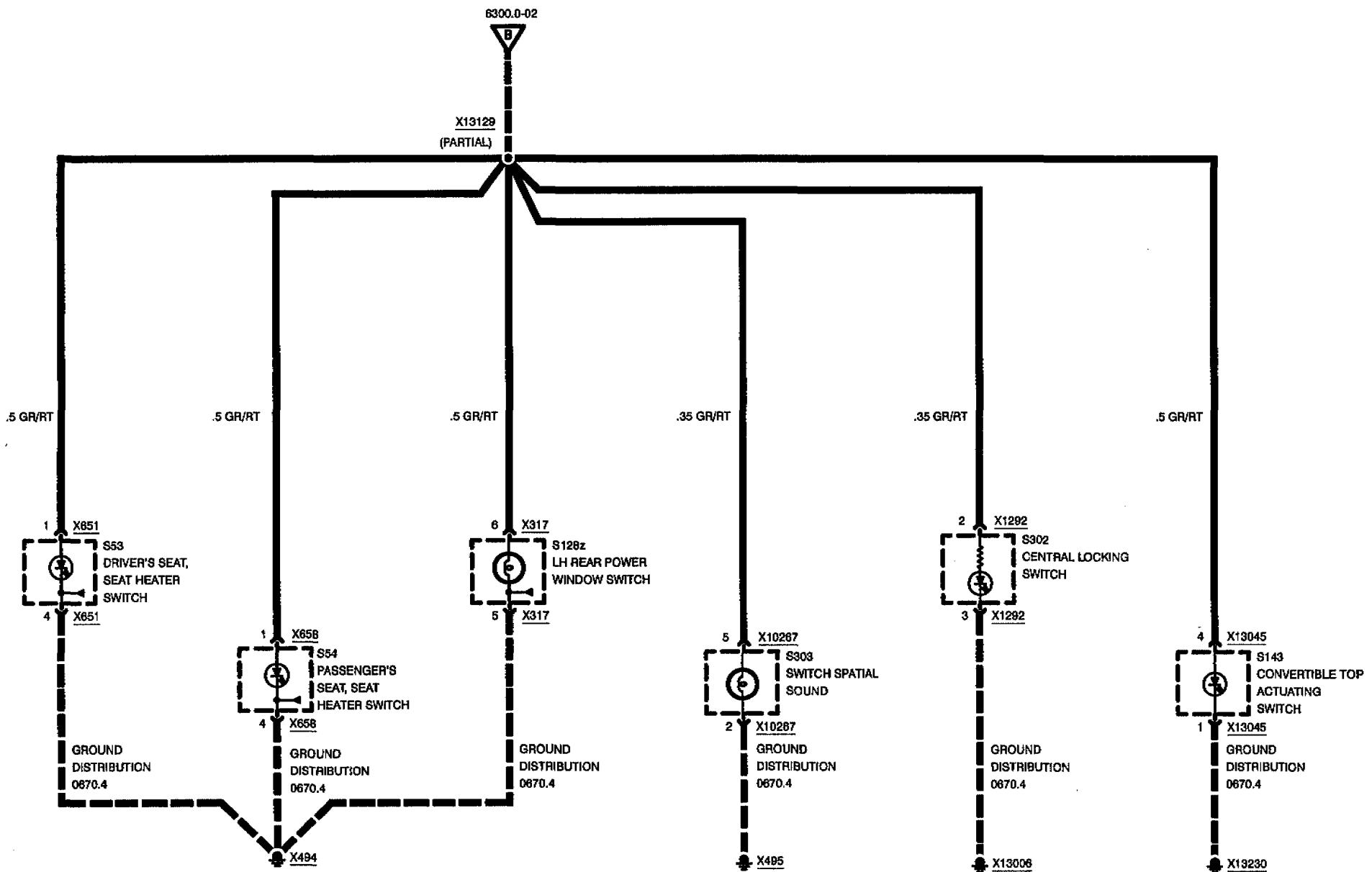
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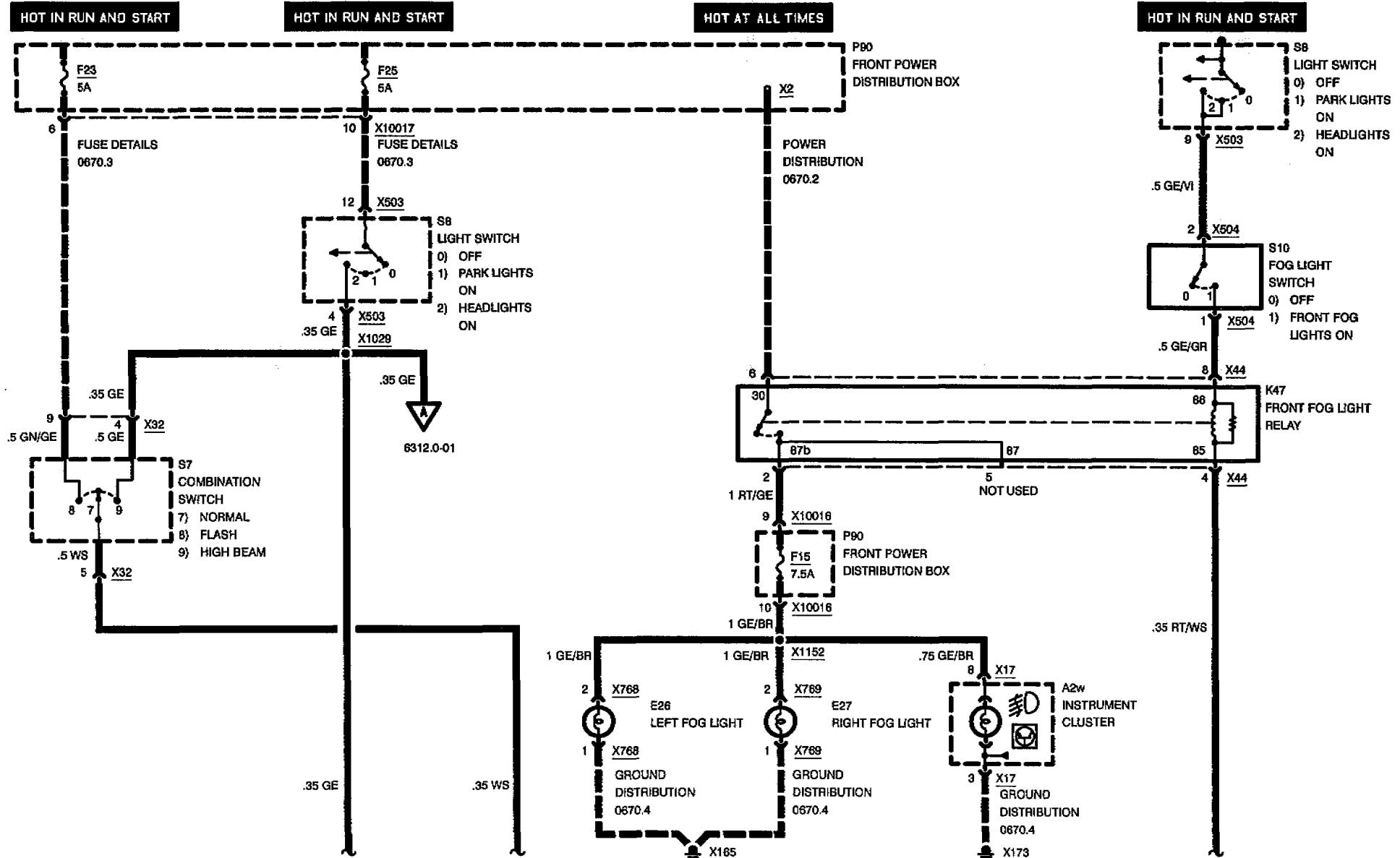


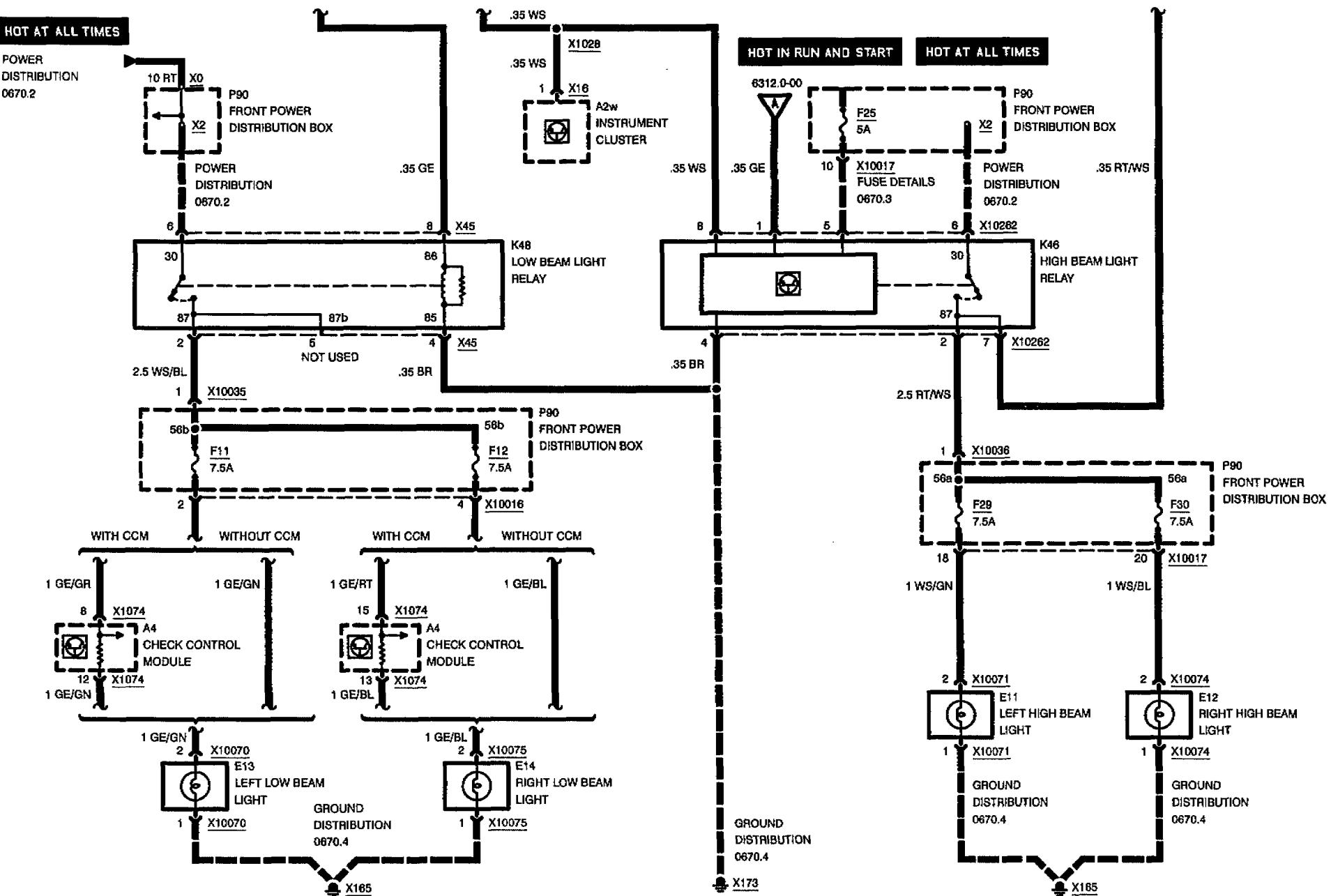
## LIGHT SWITCH DETAILS

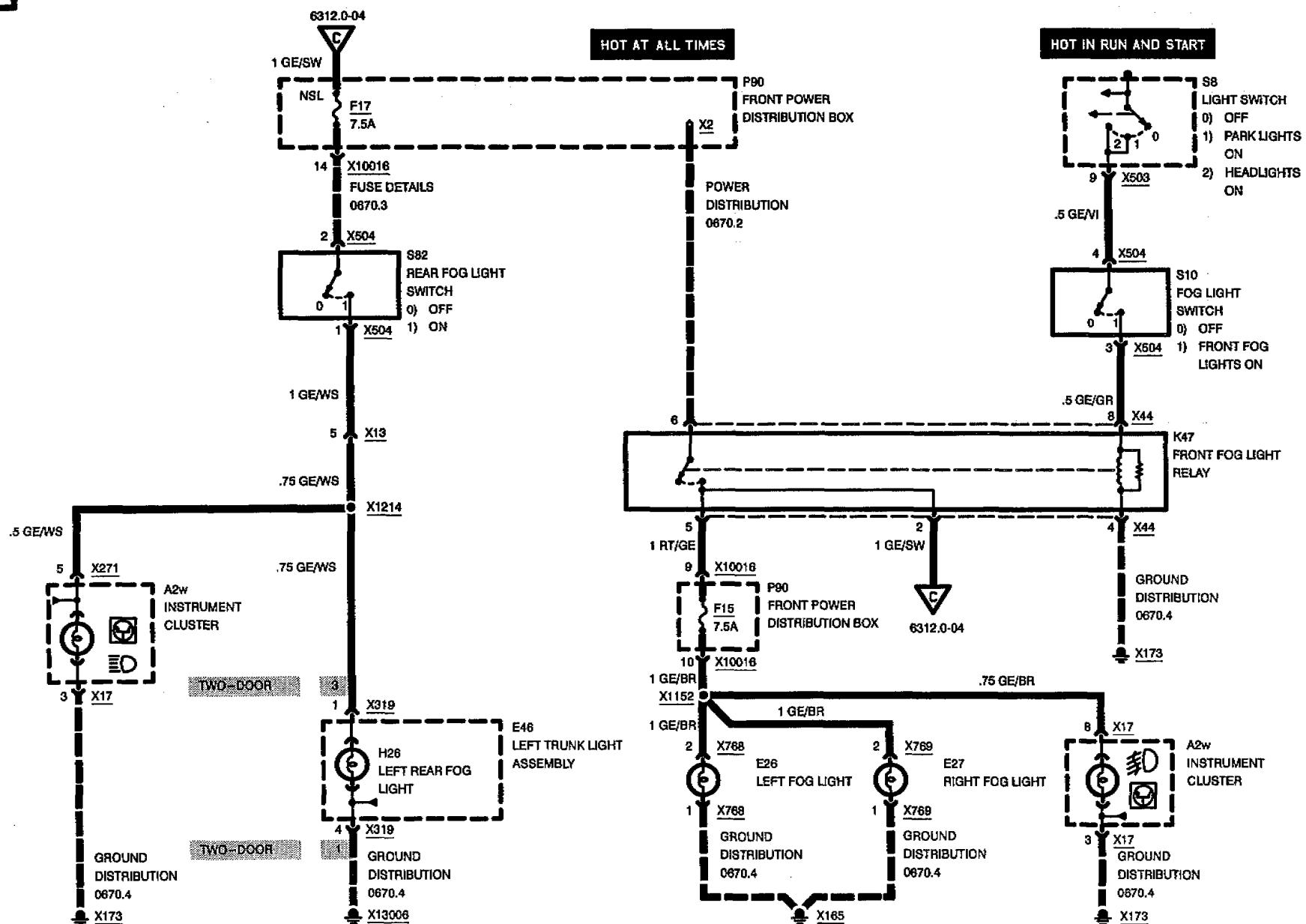
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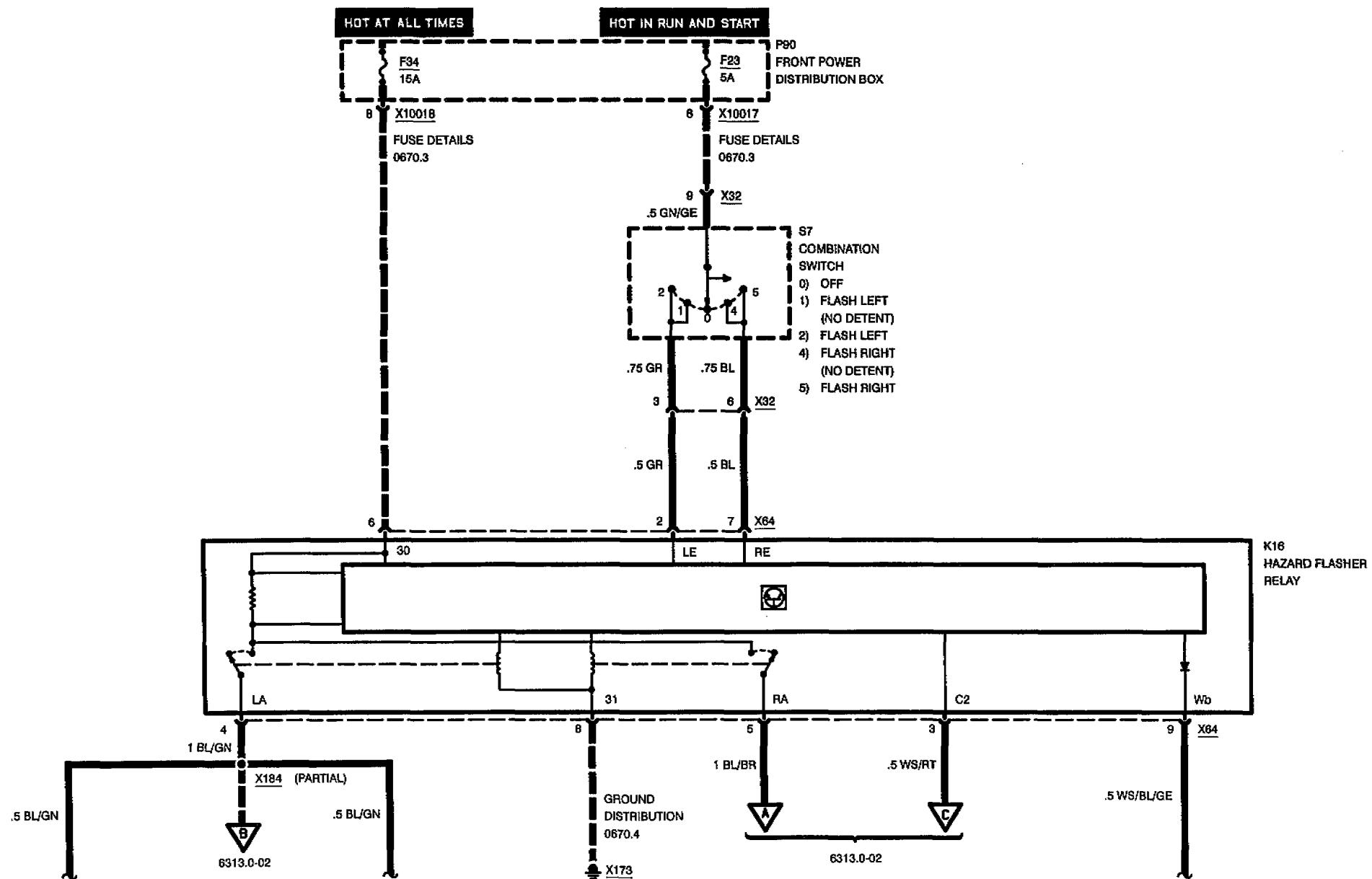


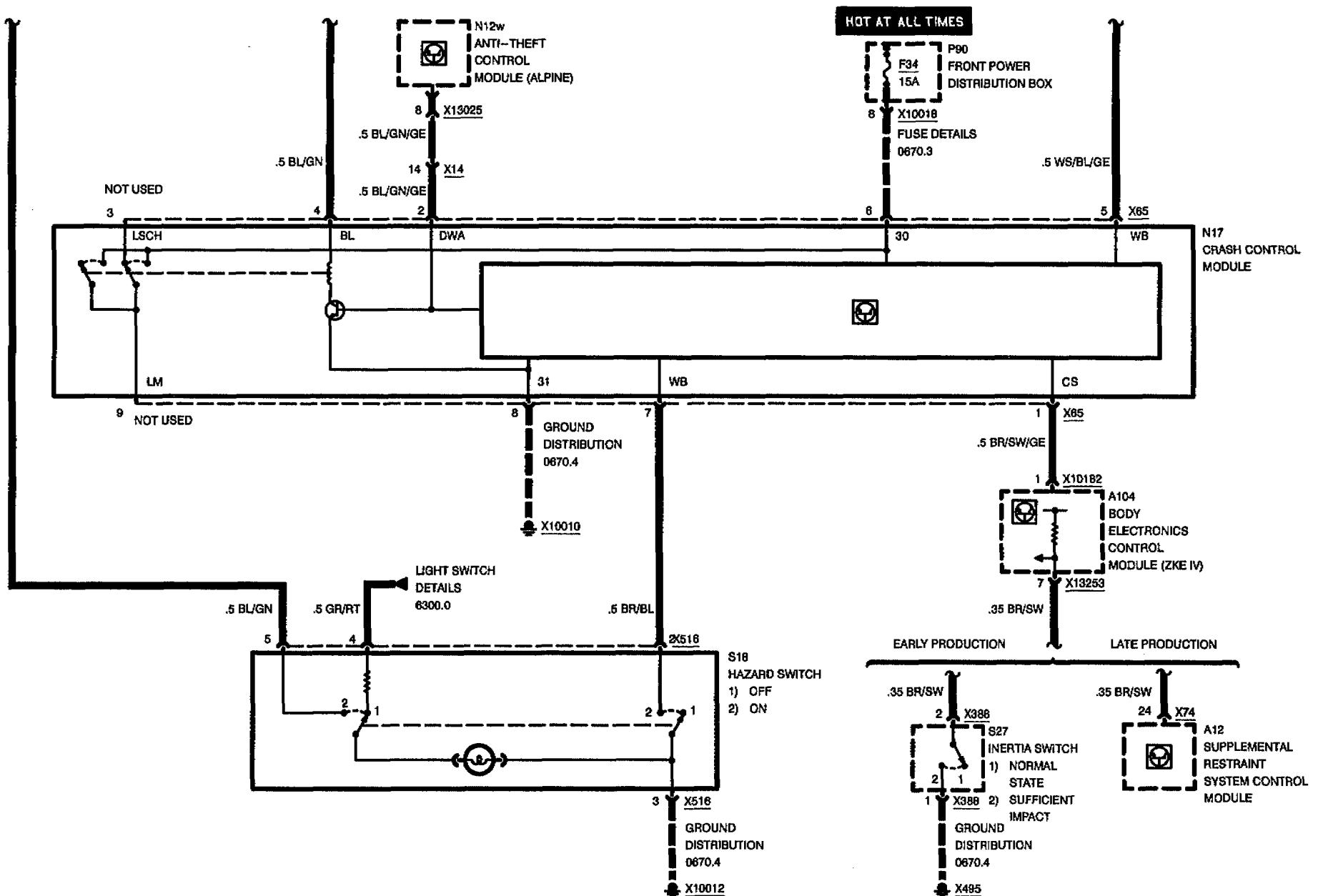
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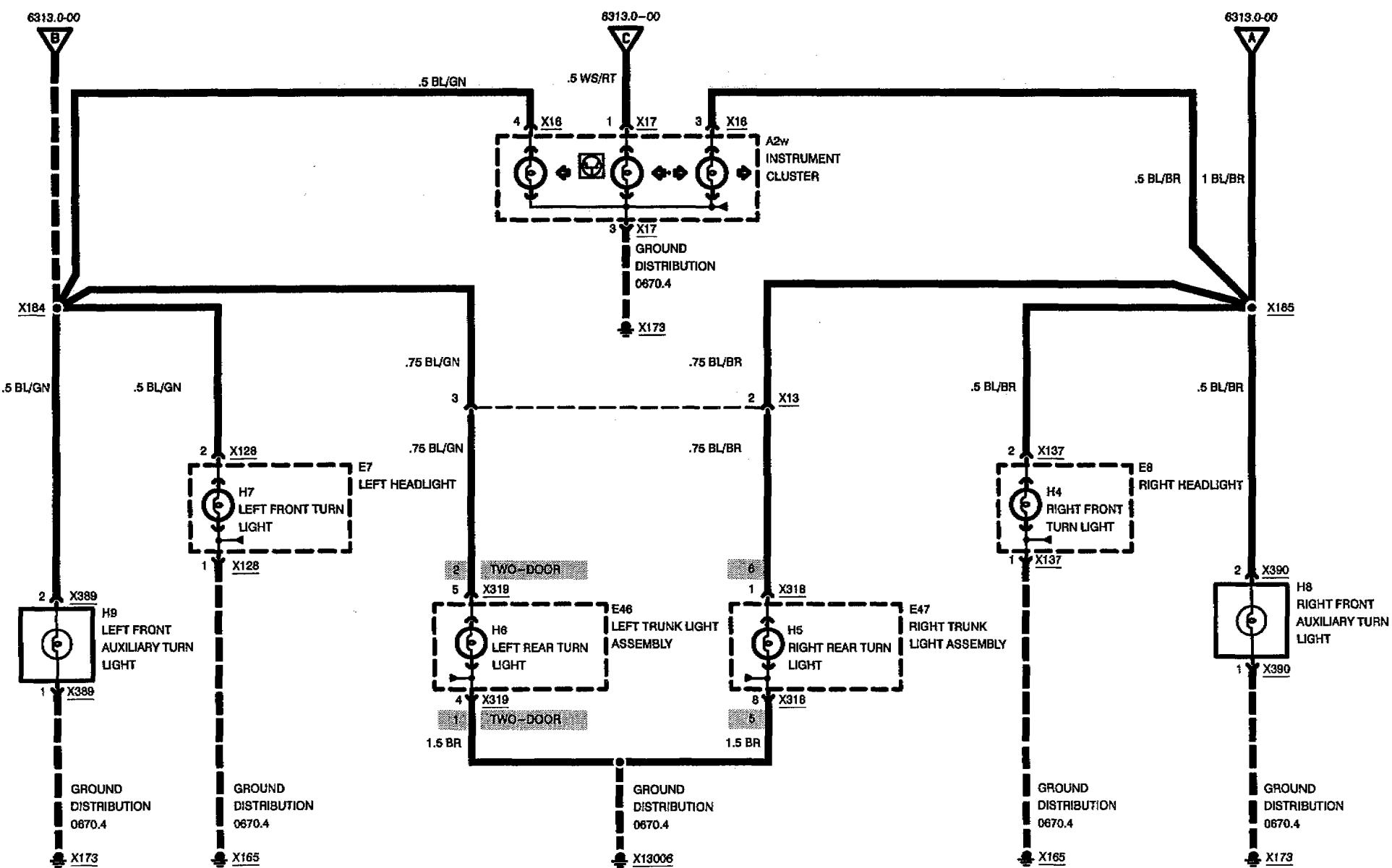
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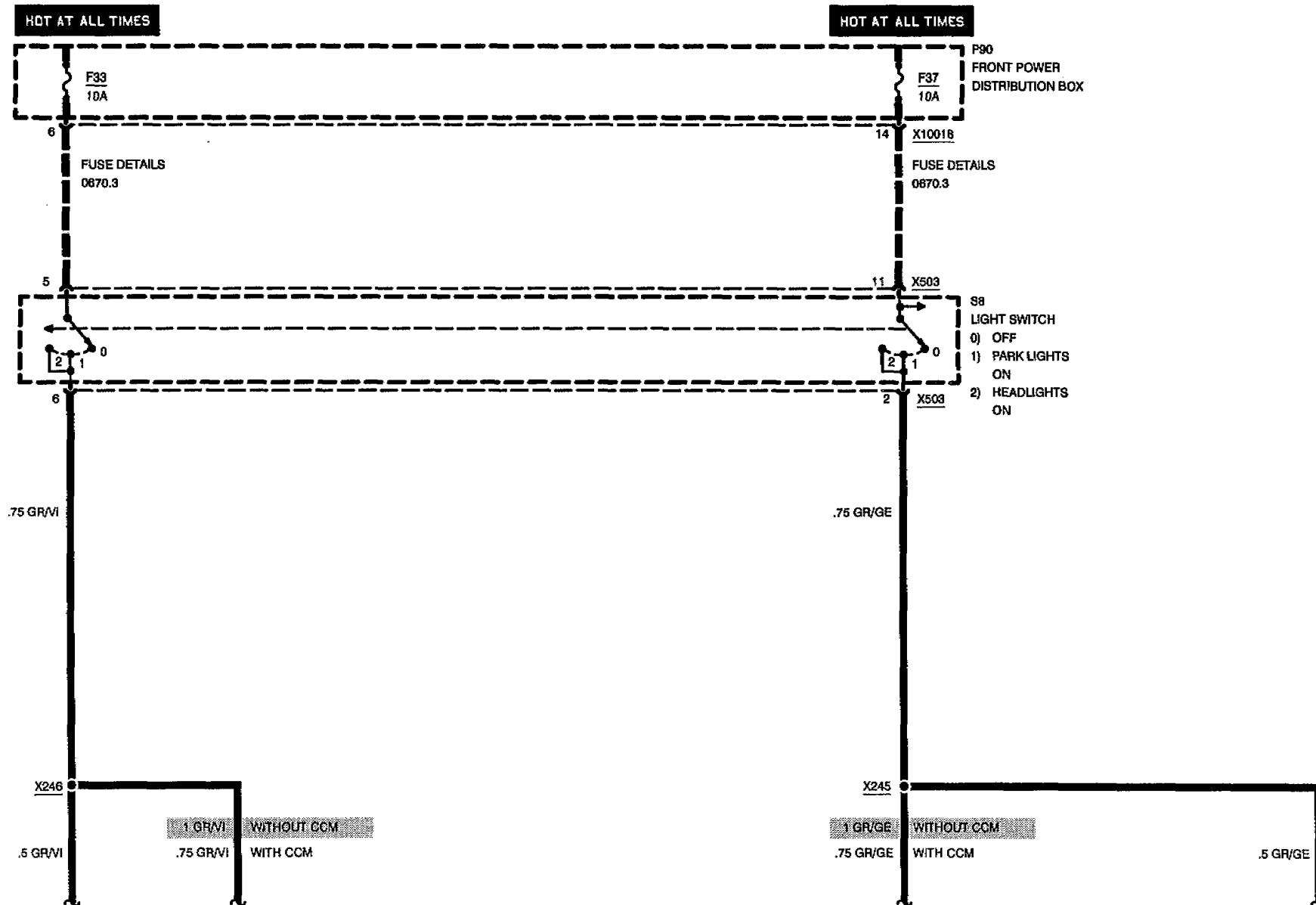


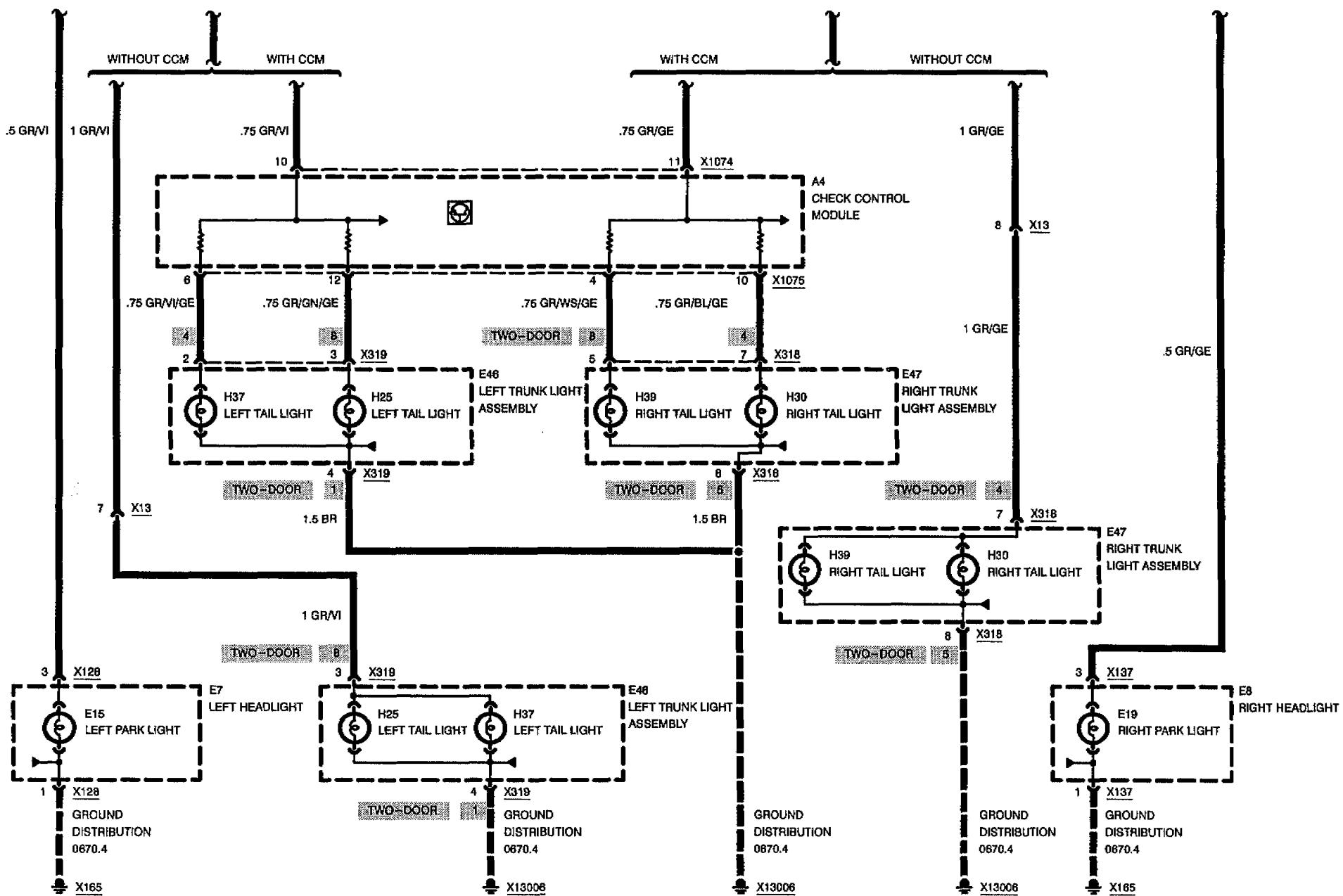




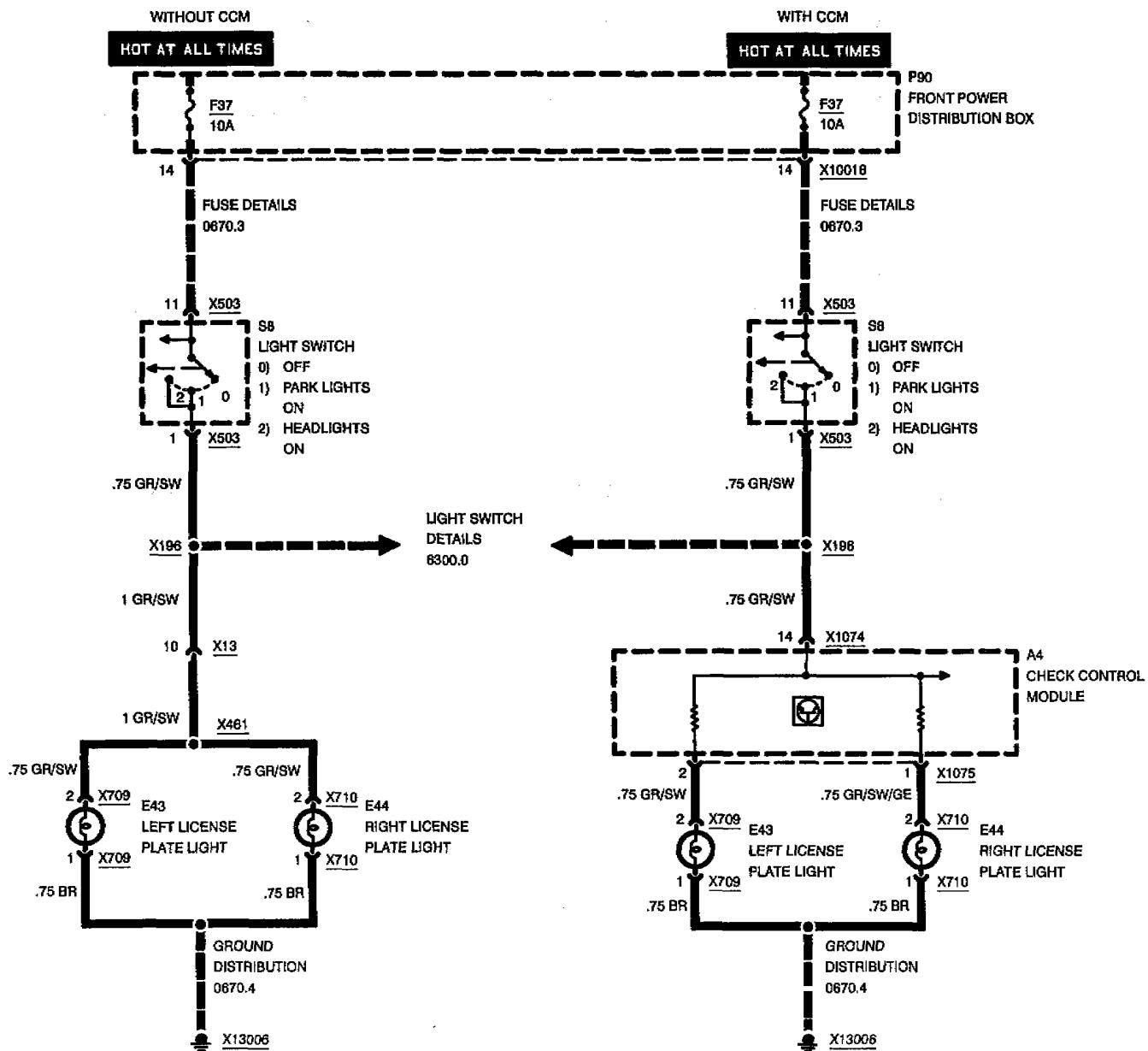


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## LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS



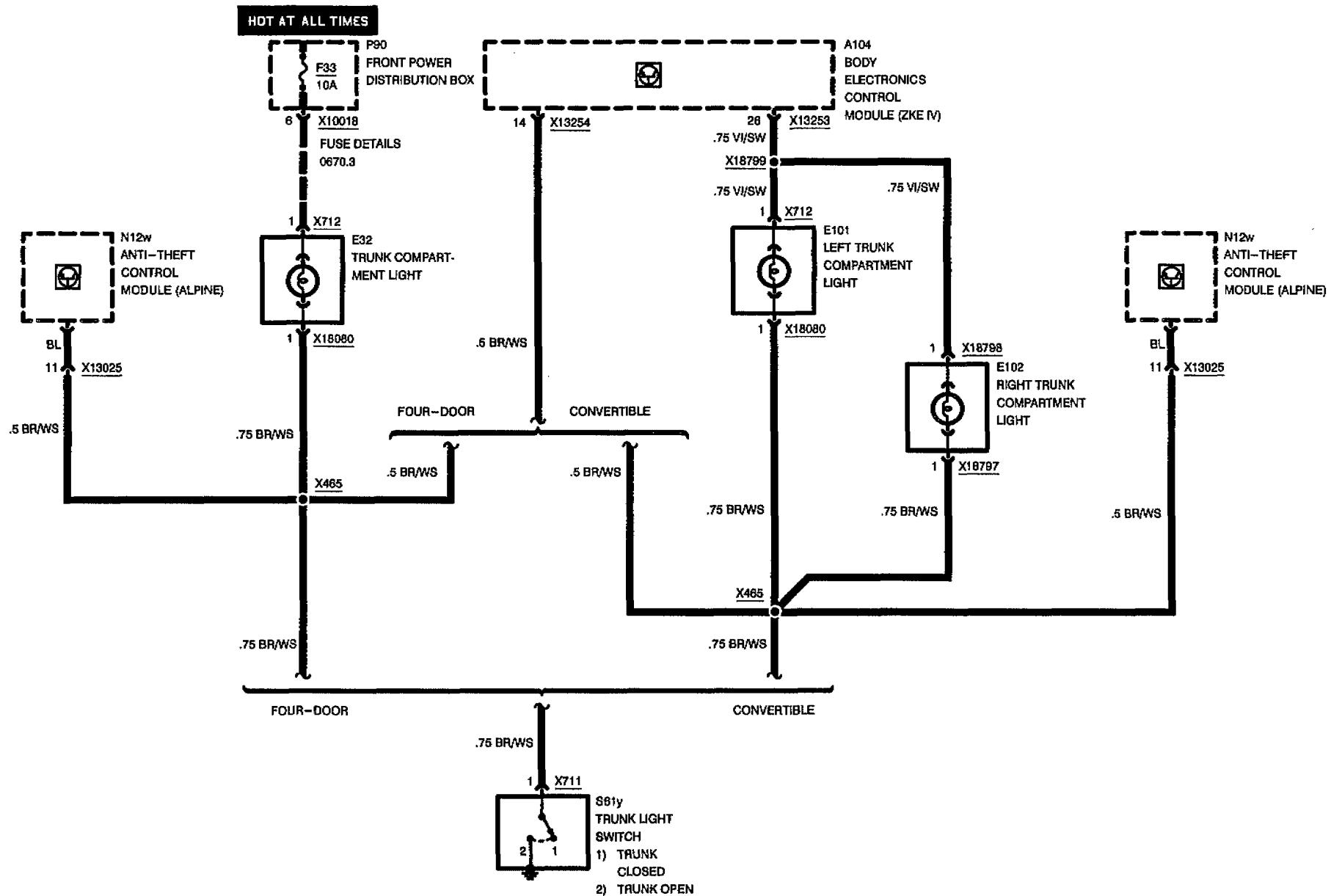


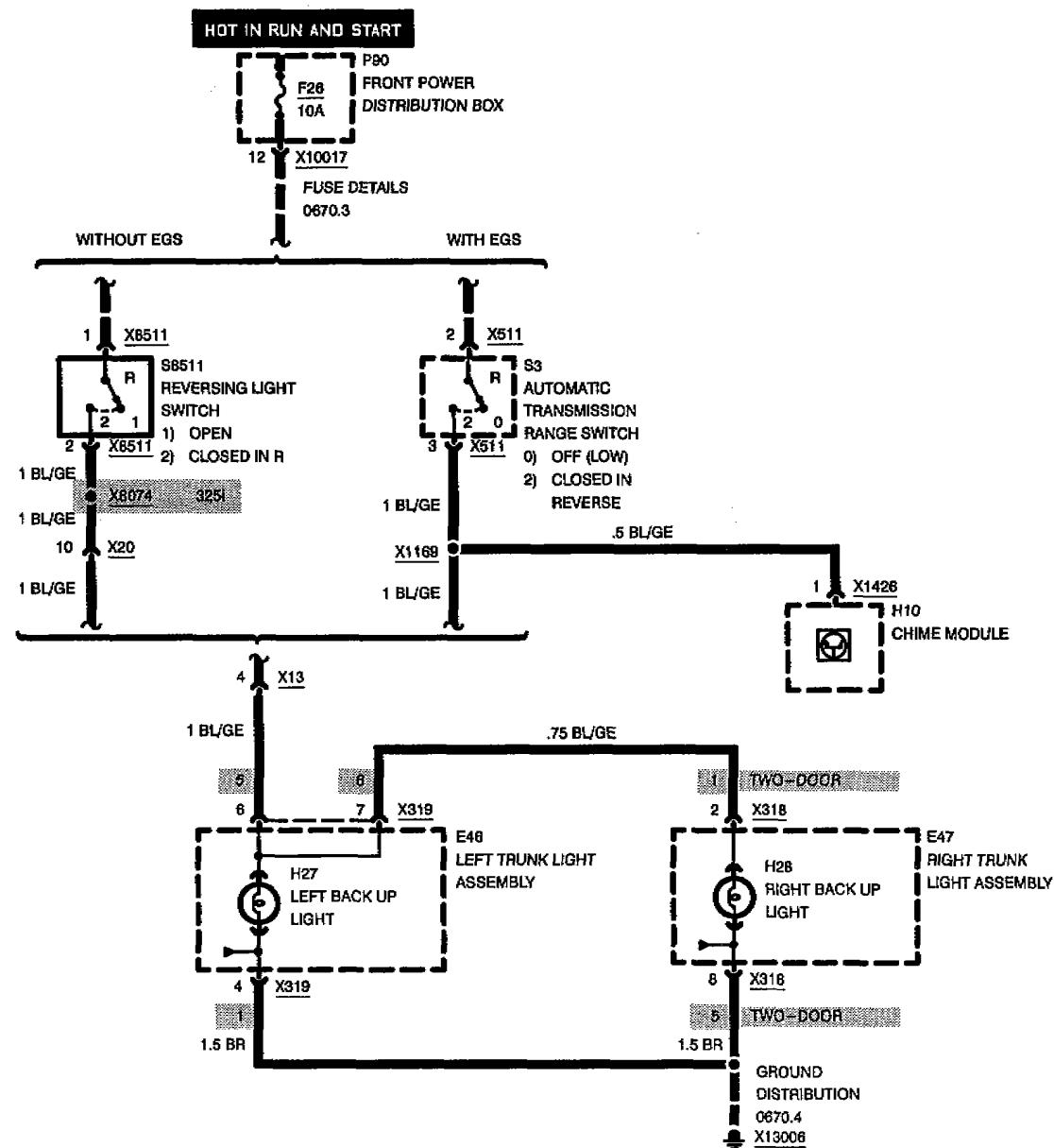
## LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS

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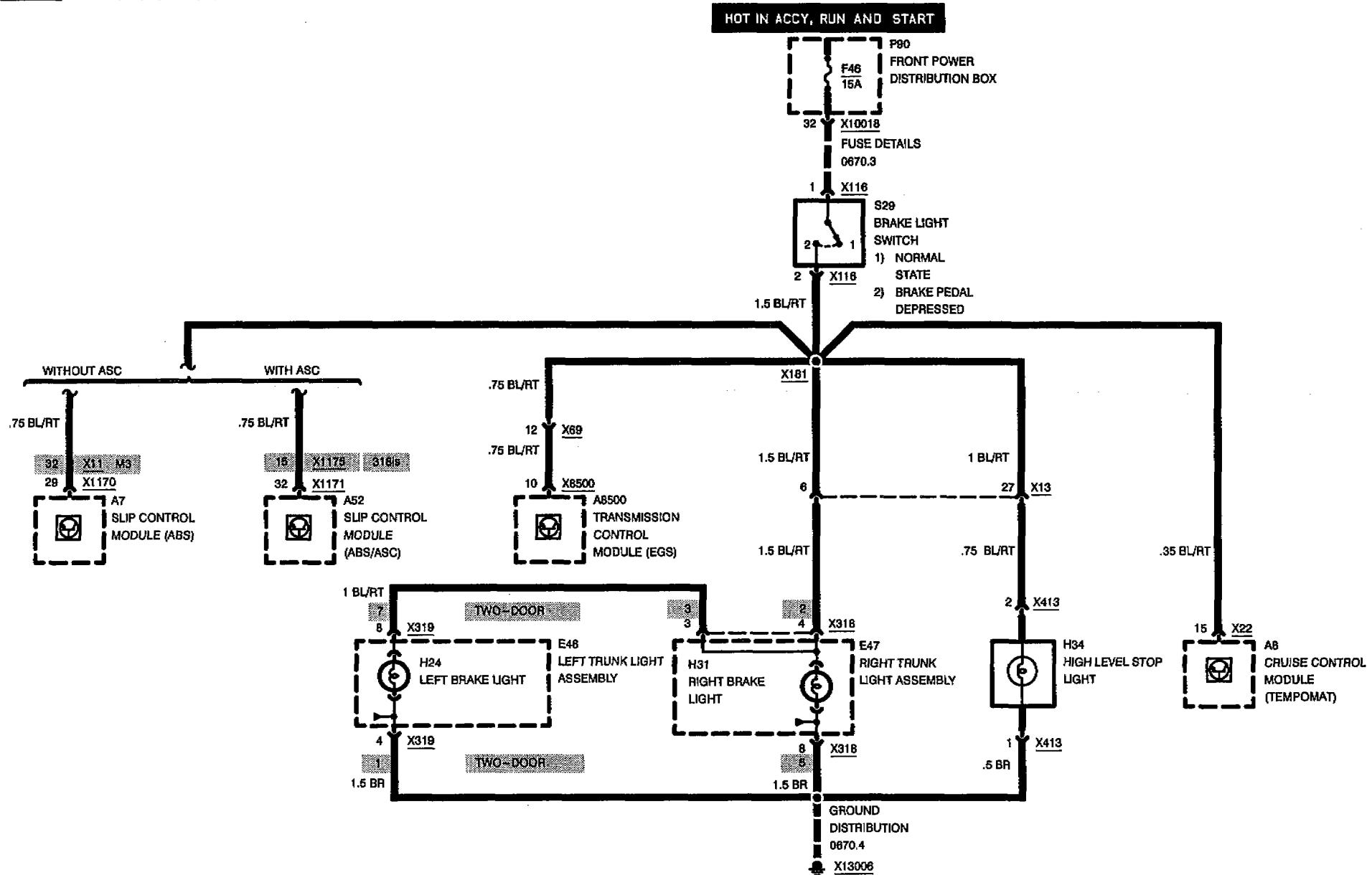
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# BRAKE LIGHTS WITHOUT CCM

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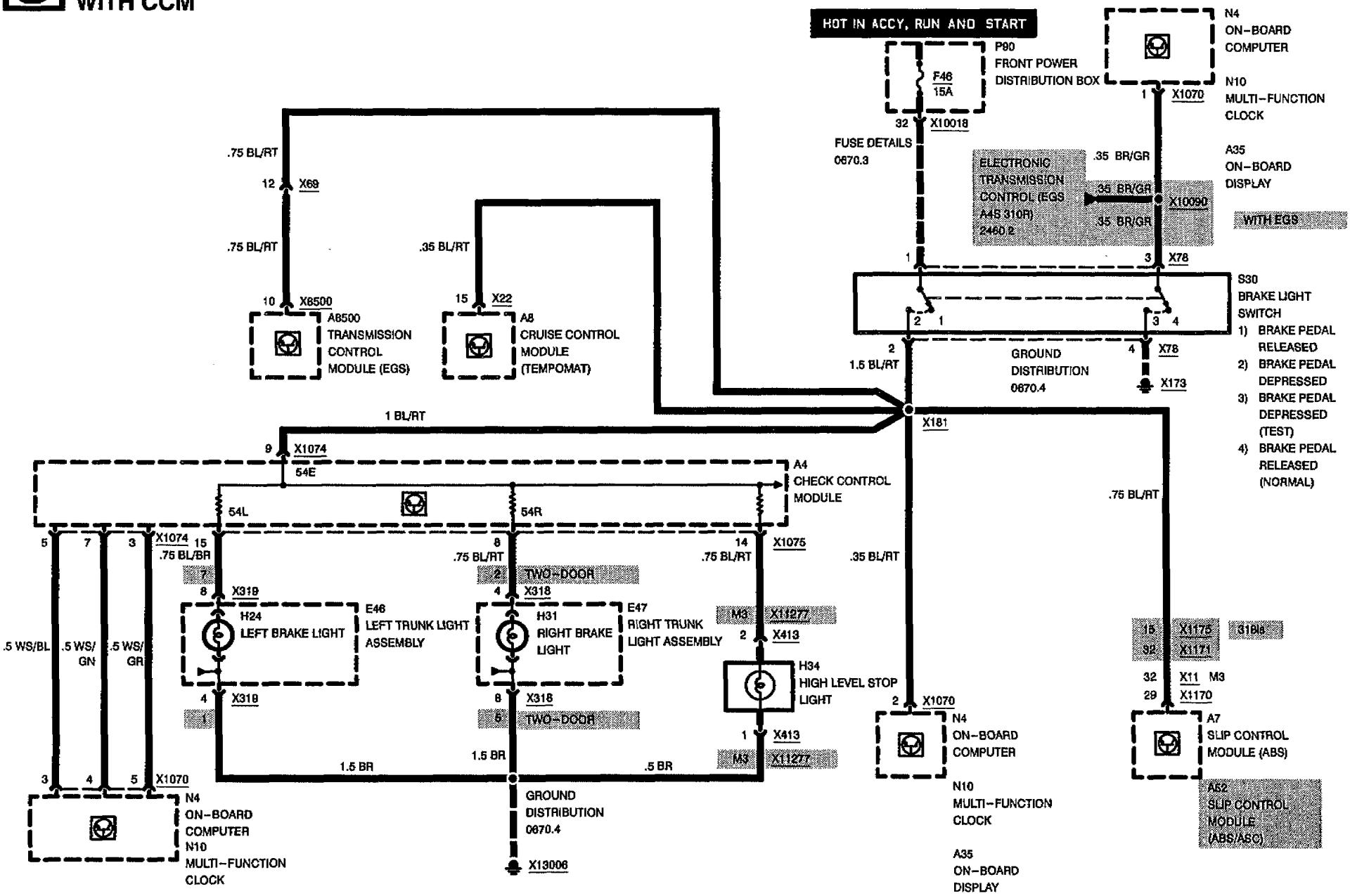


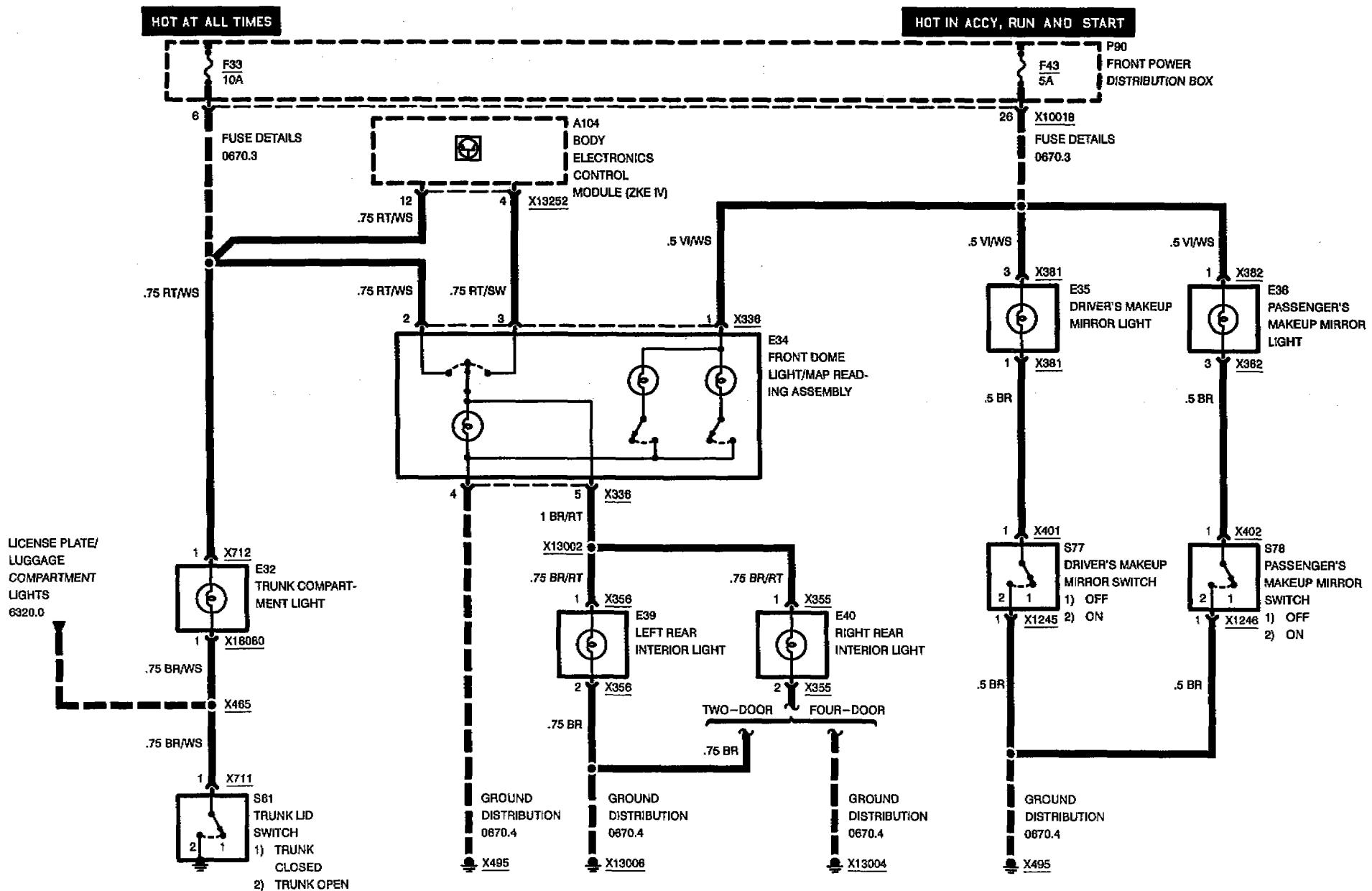
## **BRAKE LIGHTS** **WITH CCM**

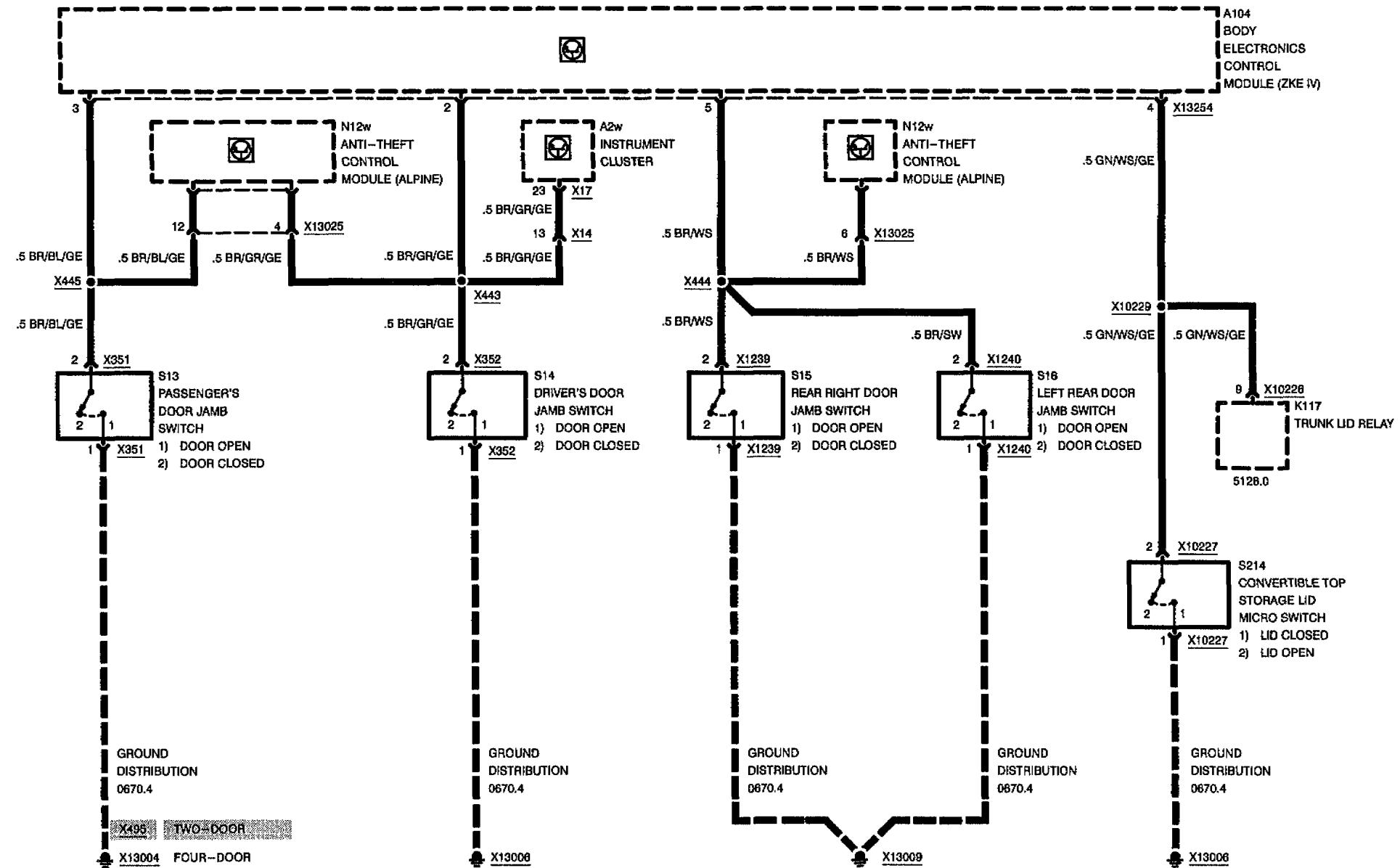
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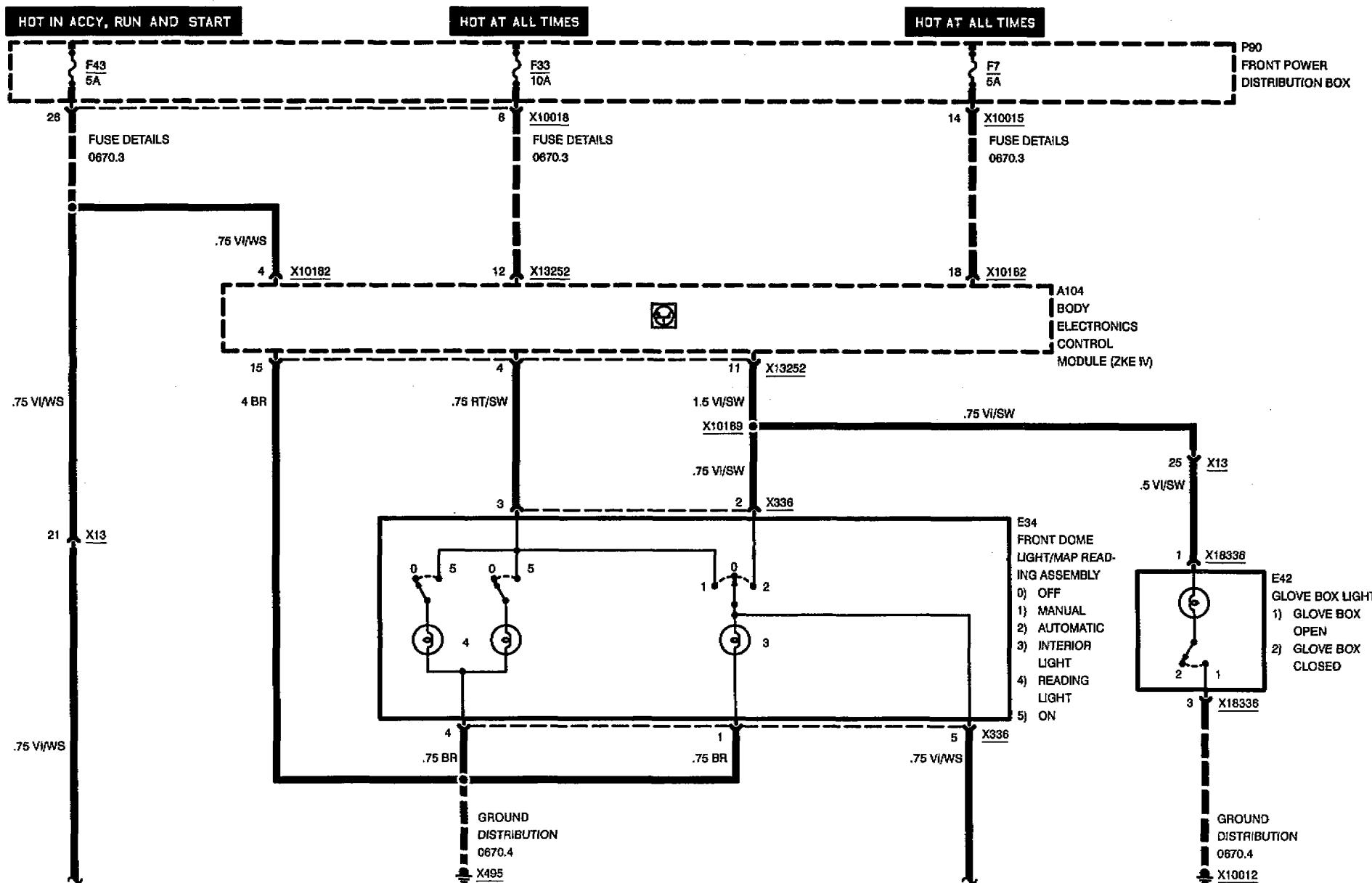
# INTERIOR LIGHTS

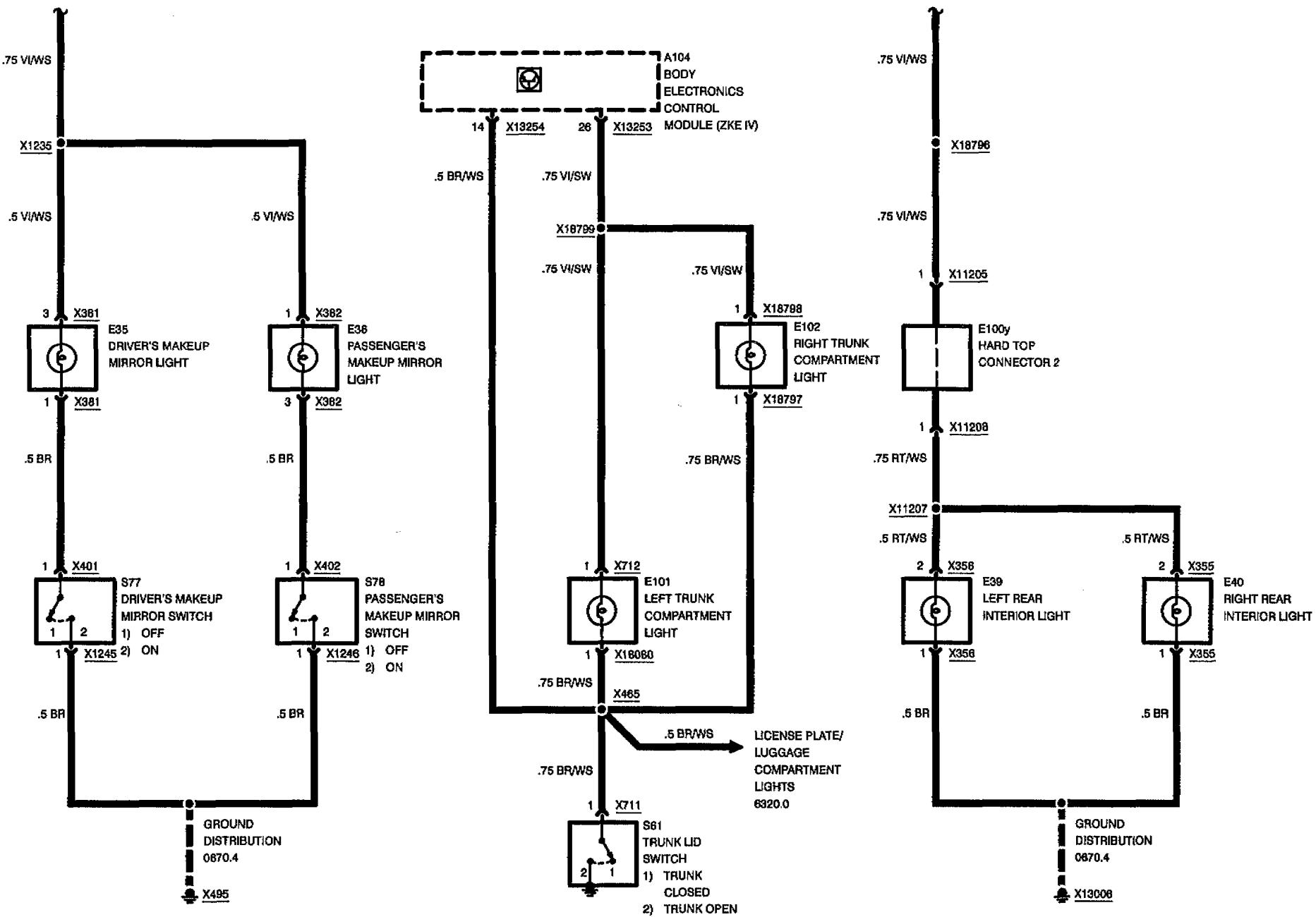
## CONVERTIBLE

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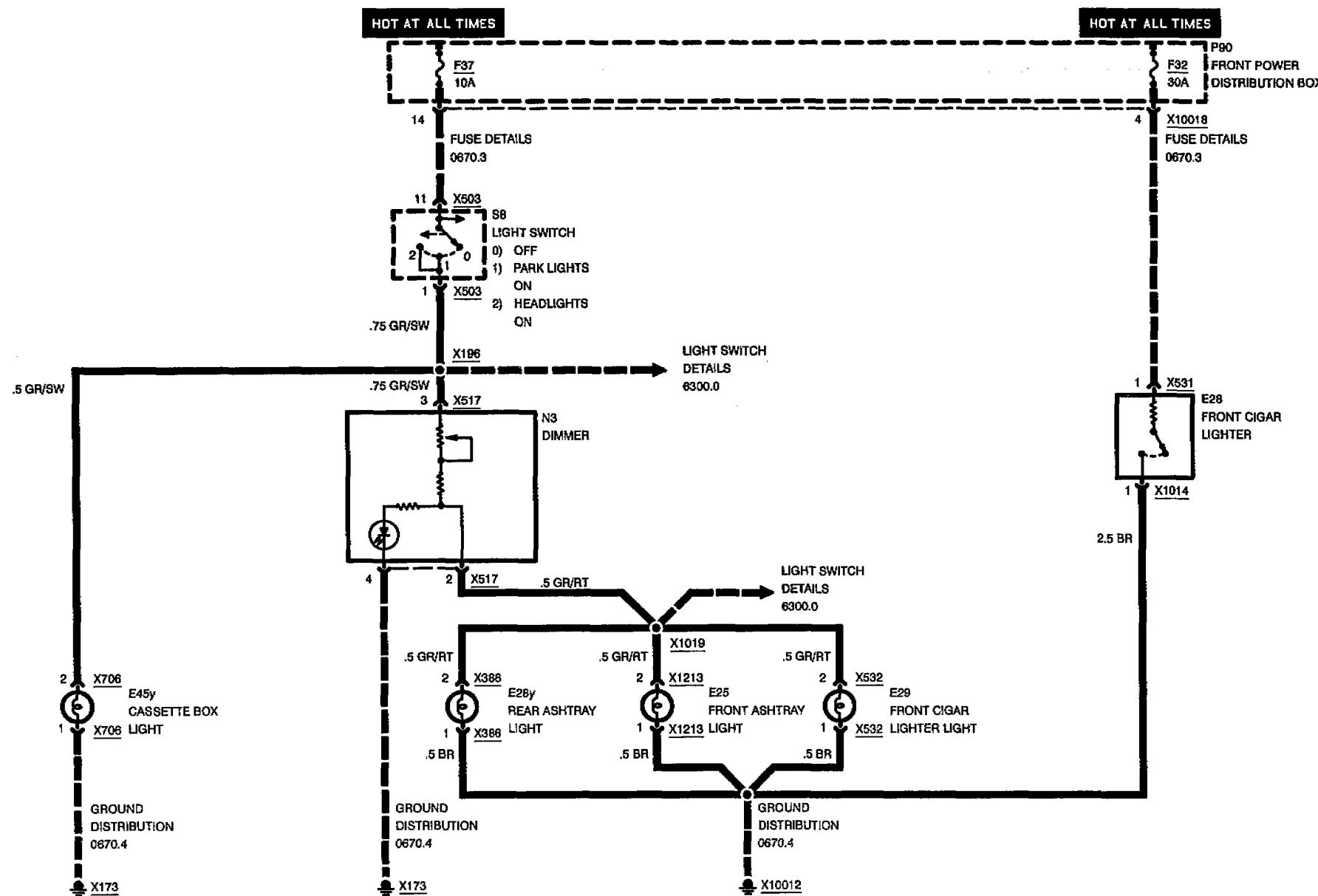
6330.3-02

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



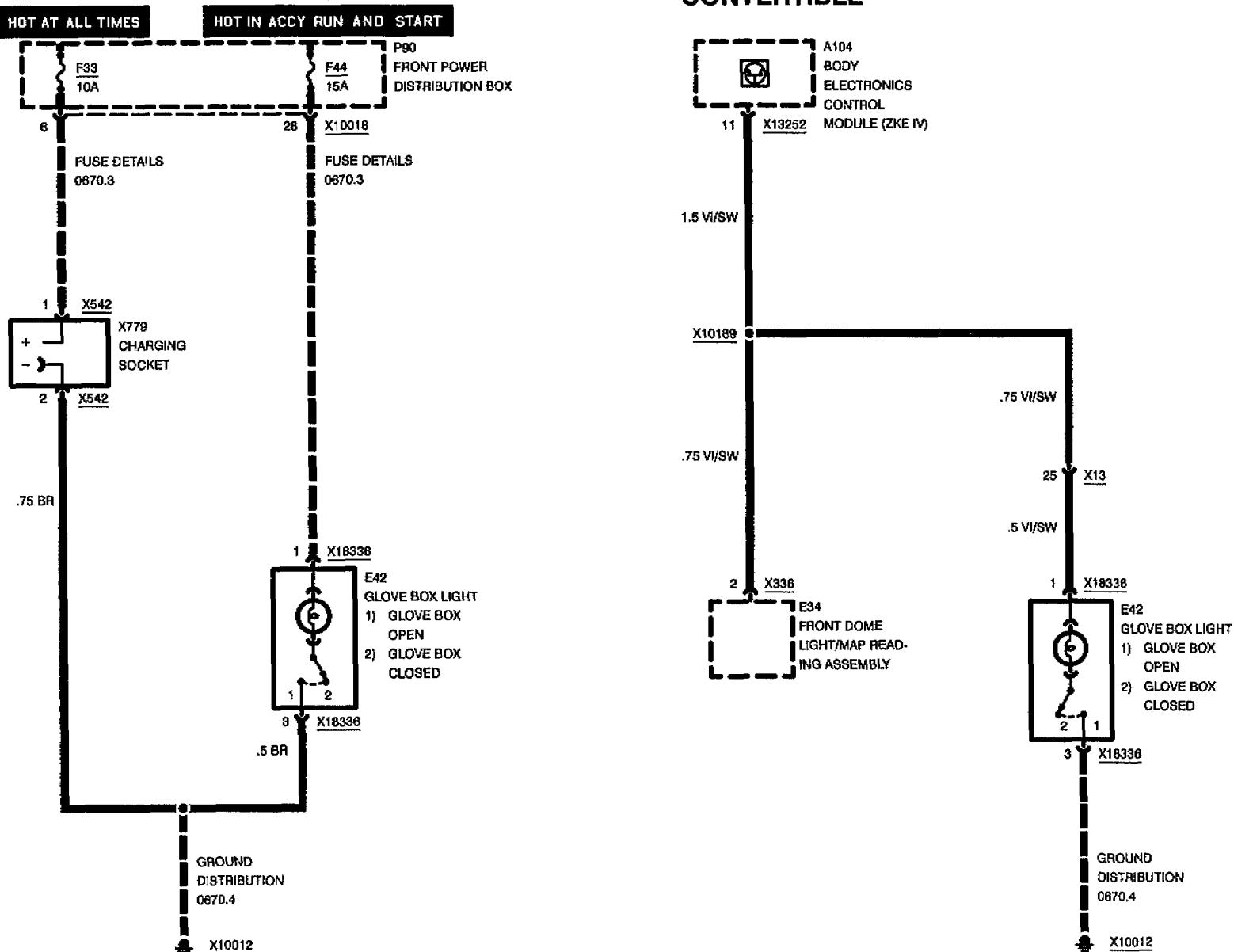
# GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER

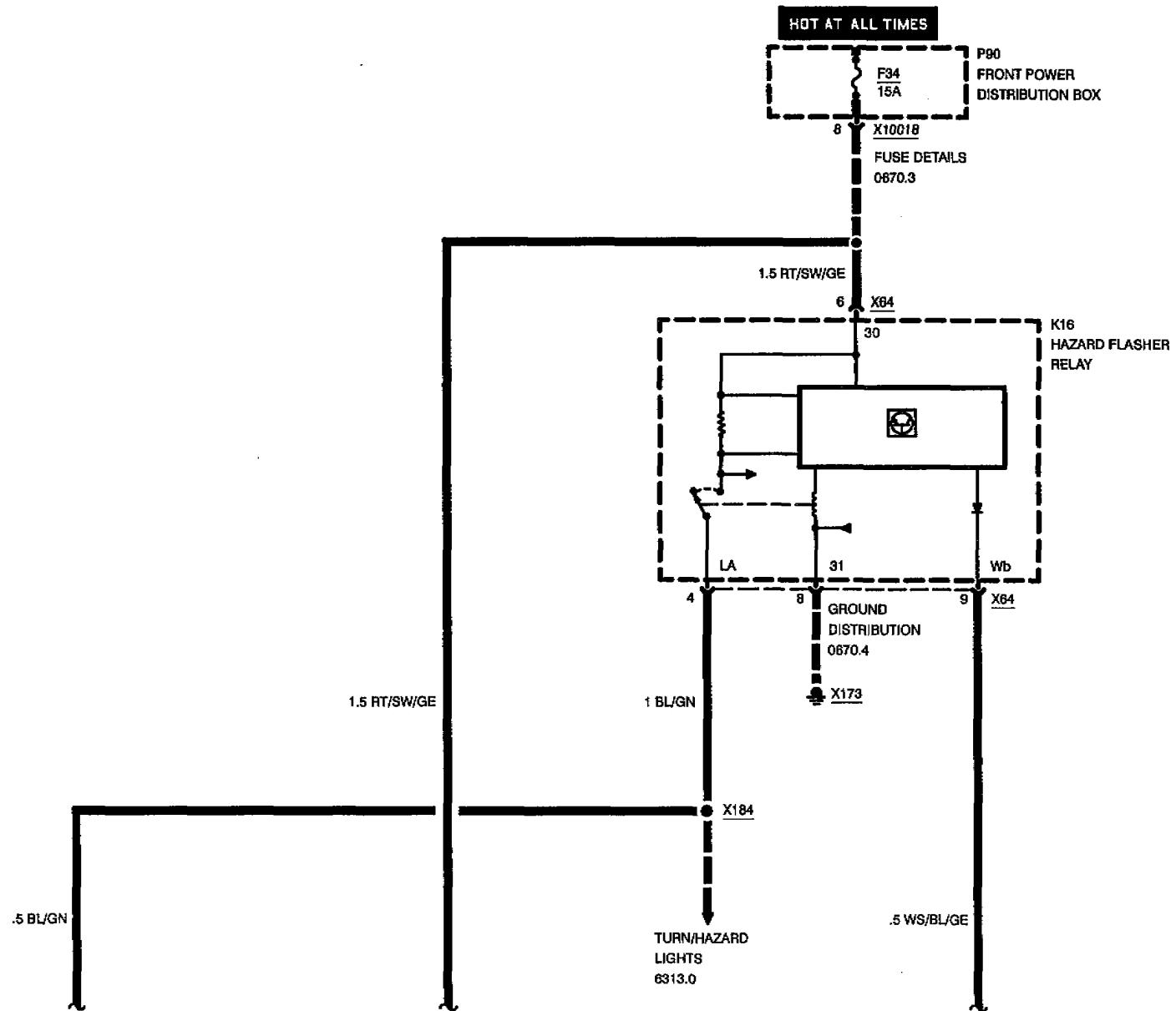
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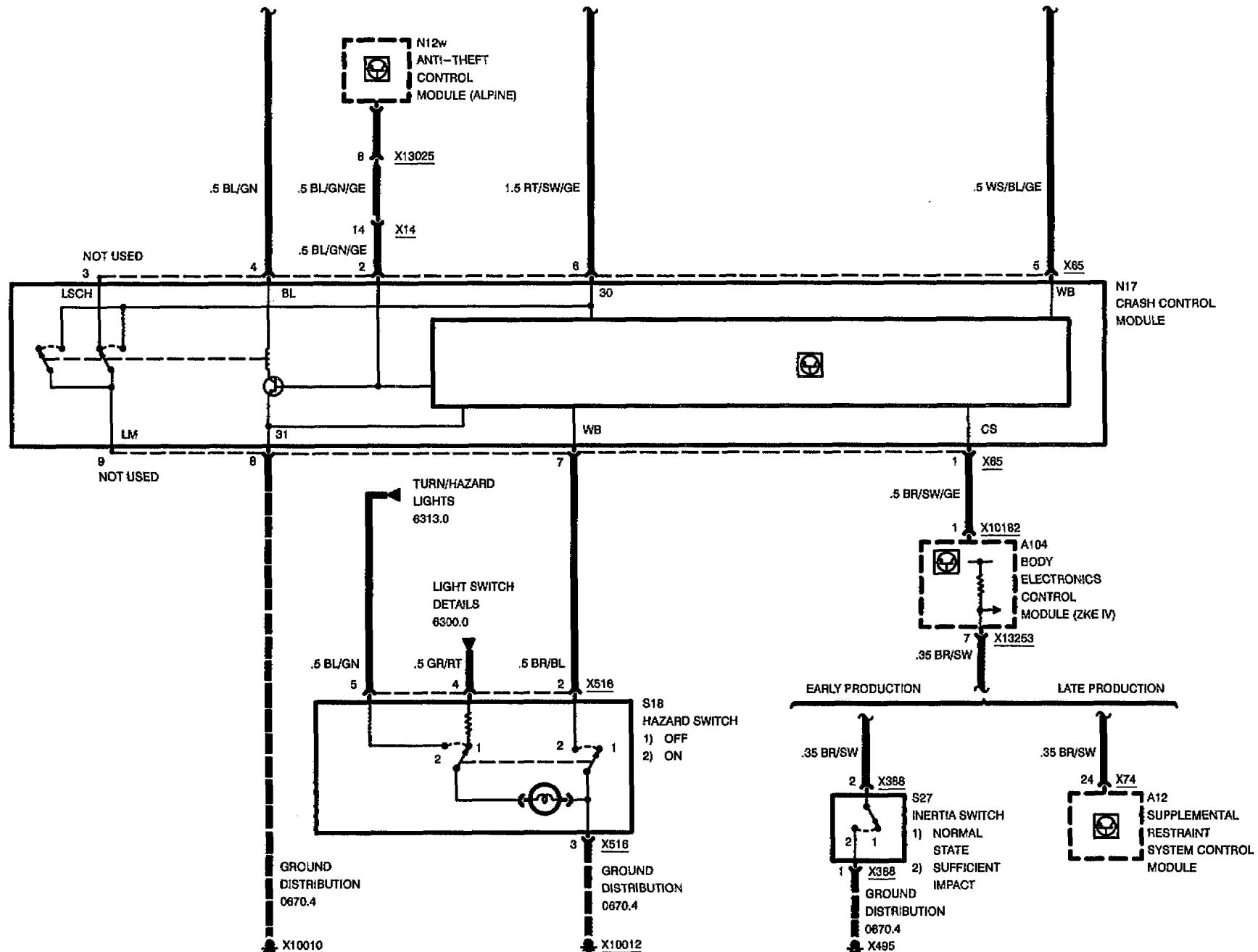
6332.1-01

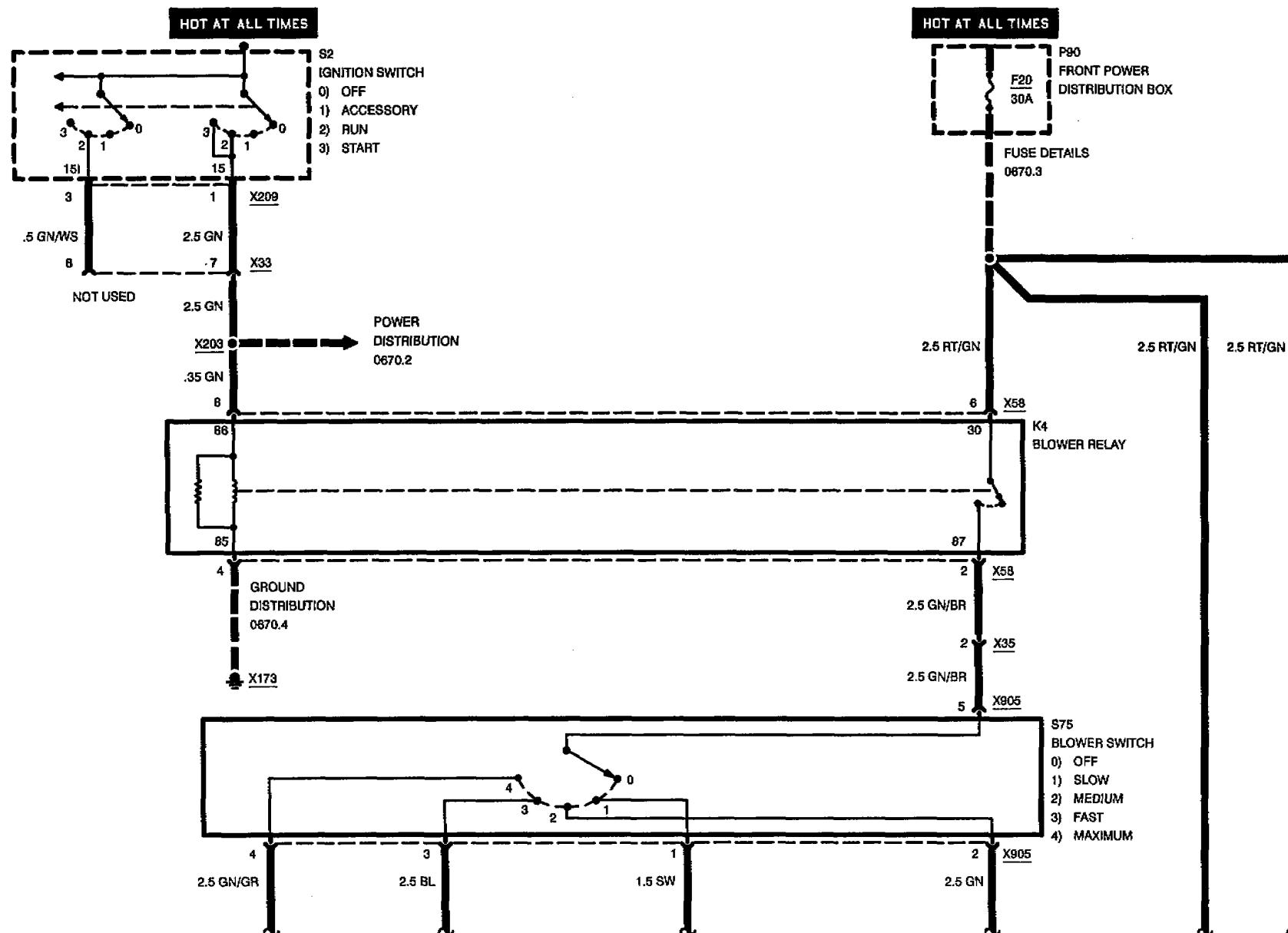
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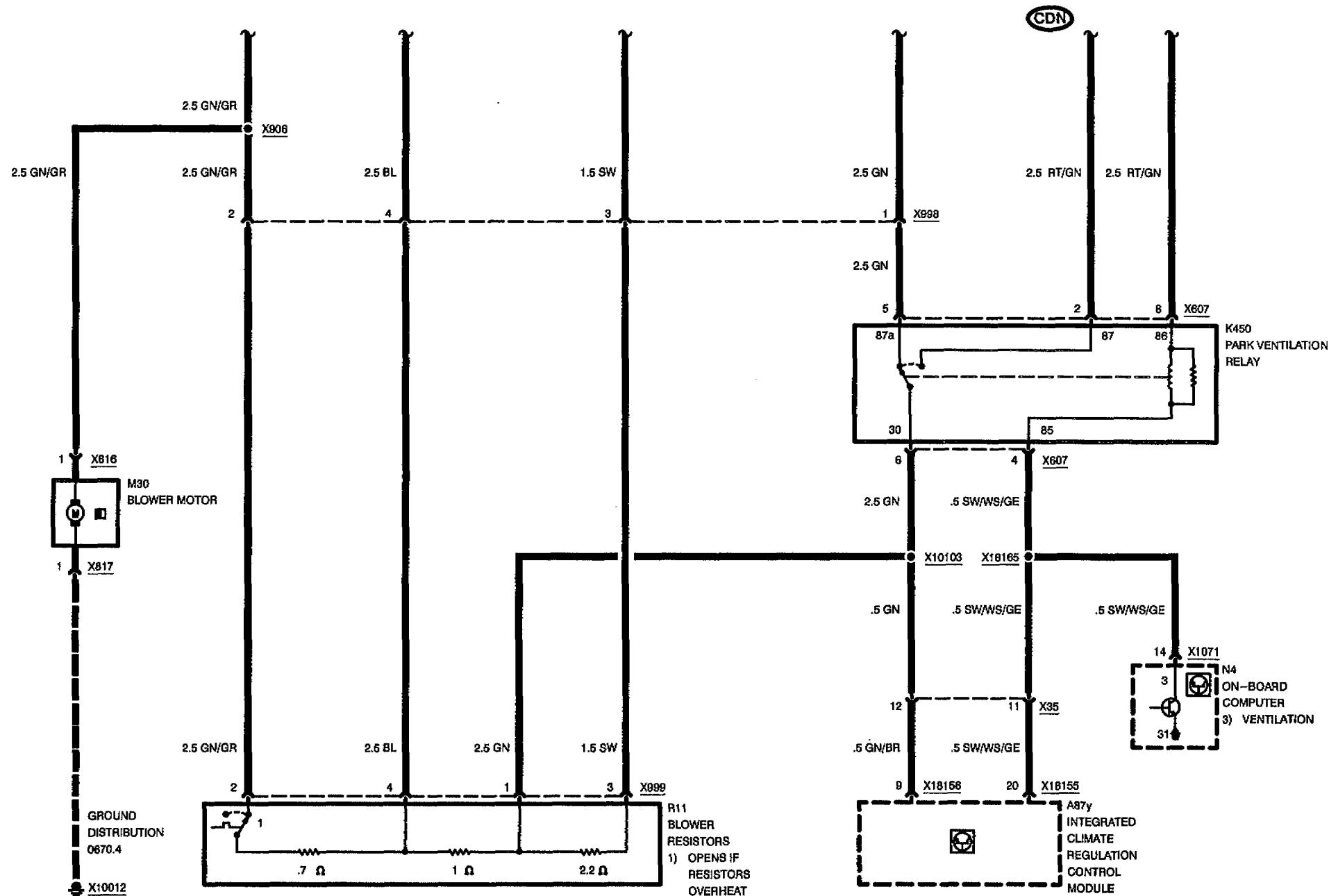
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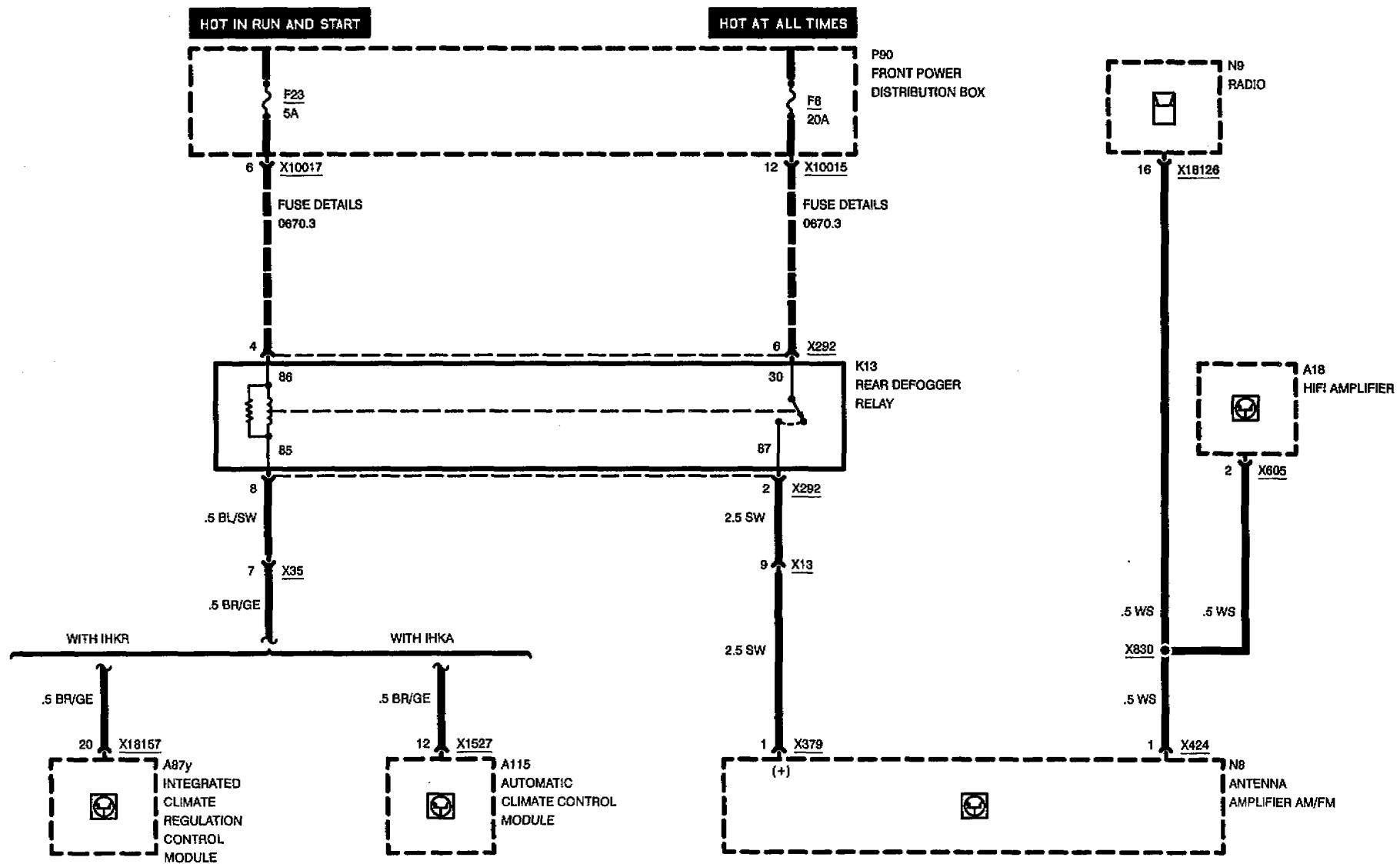


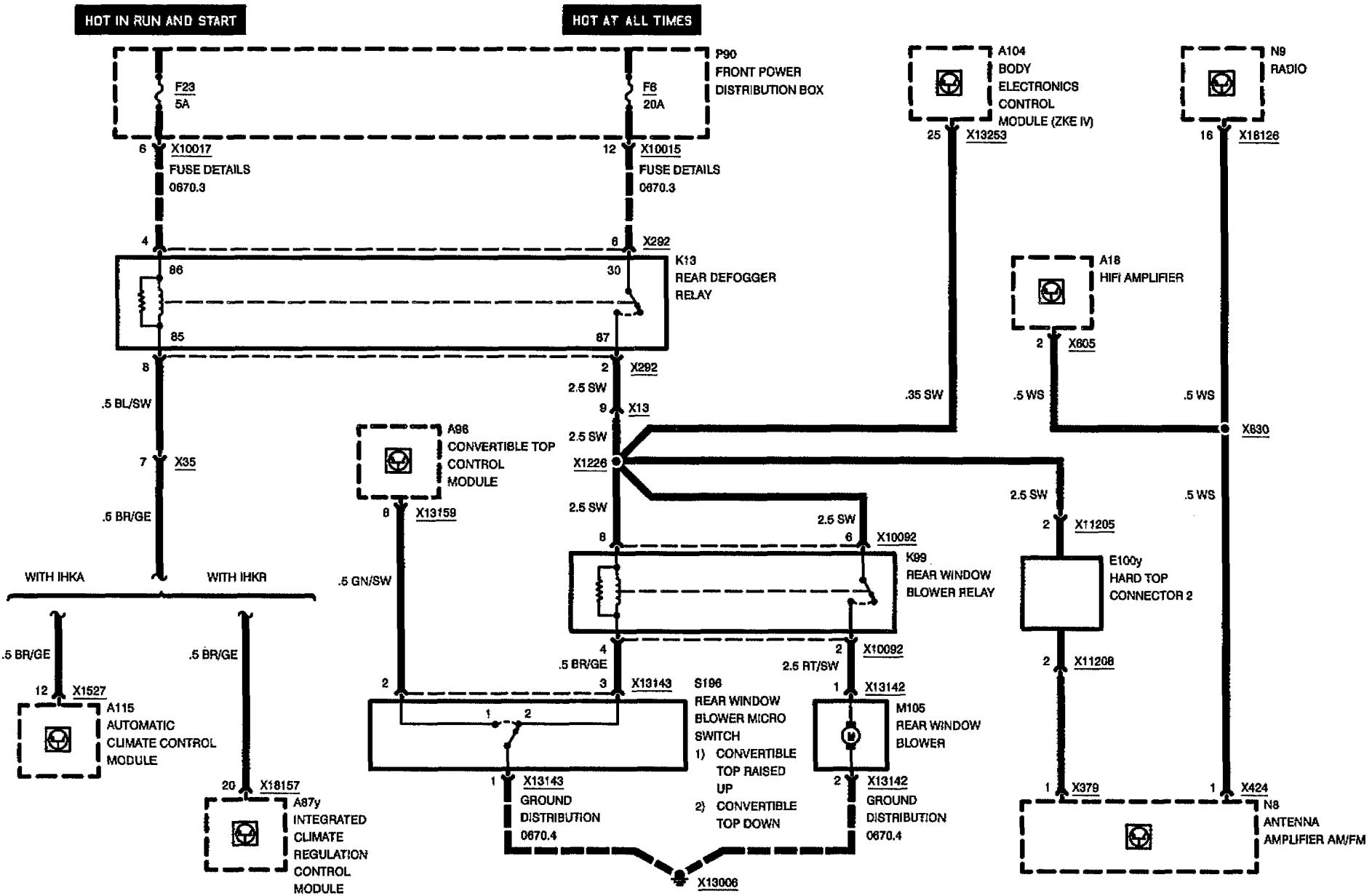














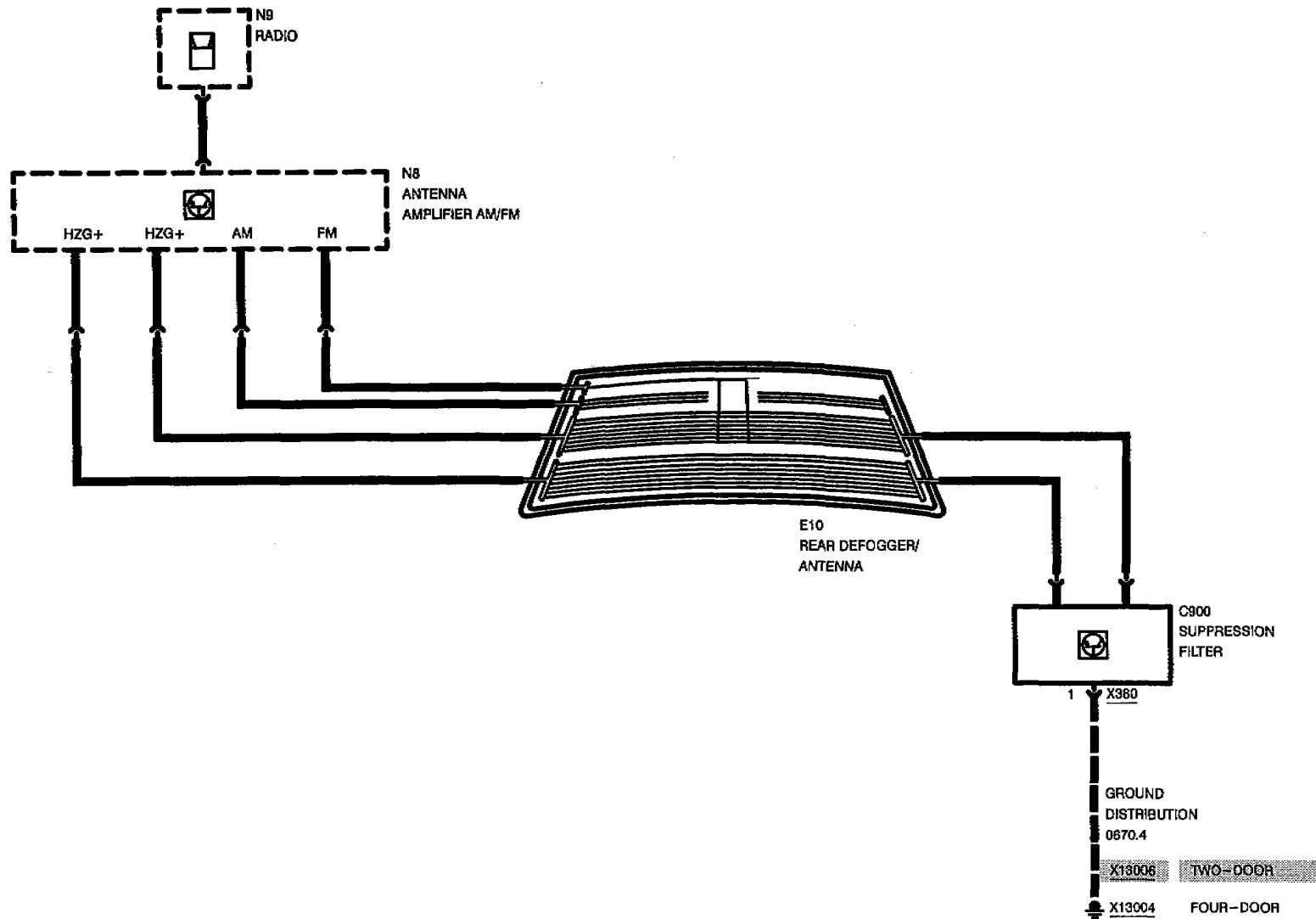
## REAR WINDOW DEFOGGER/ANTENNA

### REAR WINDOW ANTENNA

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- 6424.0-02 -

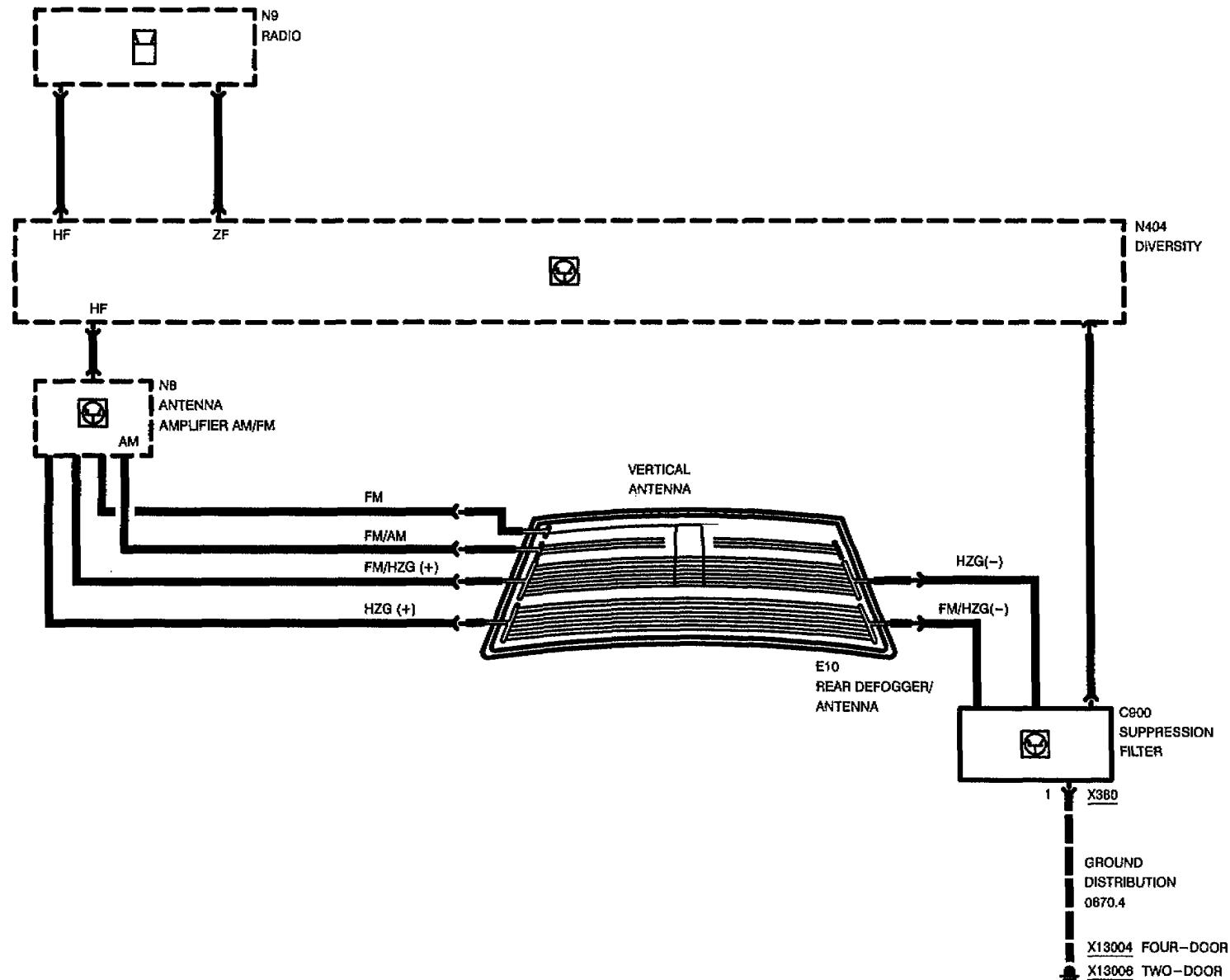
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## REAR WINDOW DEFOGGER/ANTENNA

### 3-ANTENNA-DIVERSITY



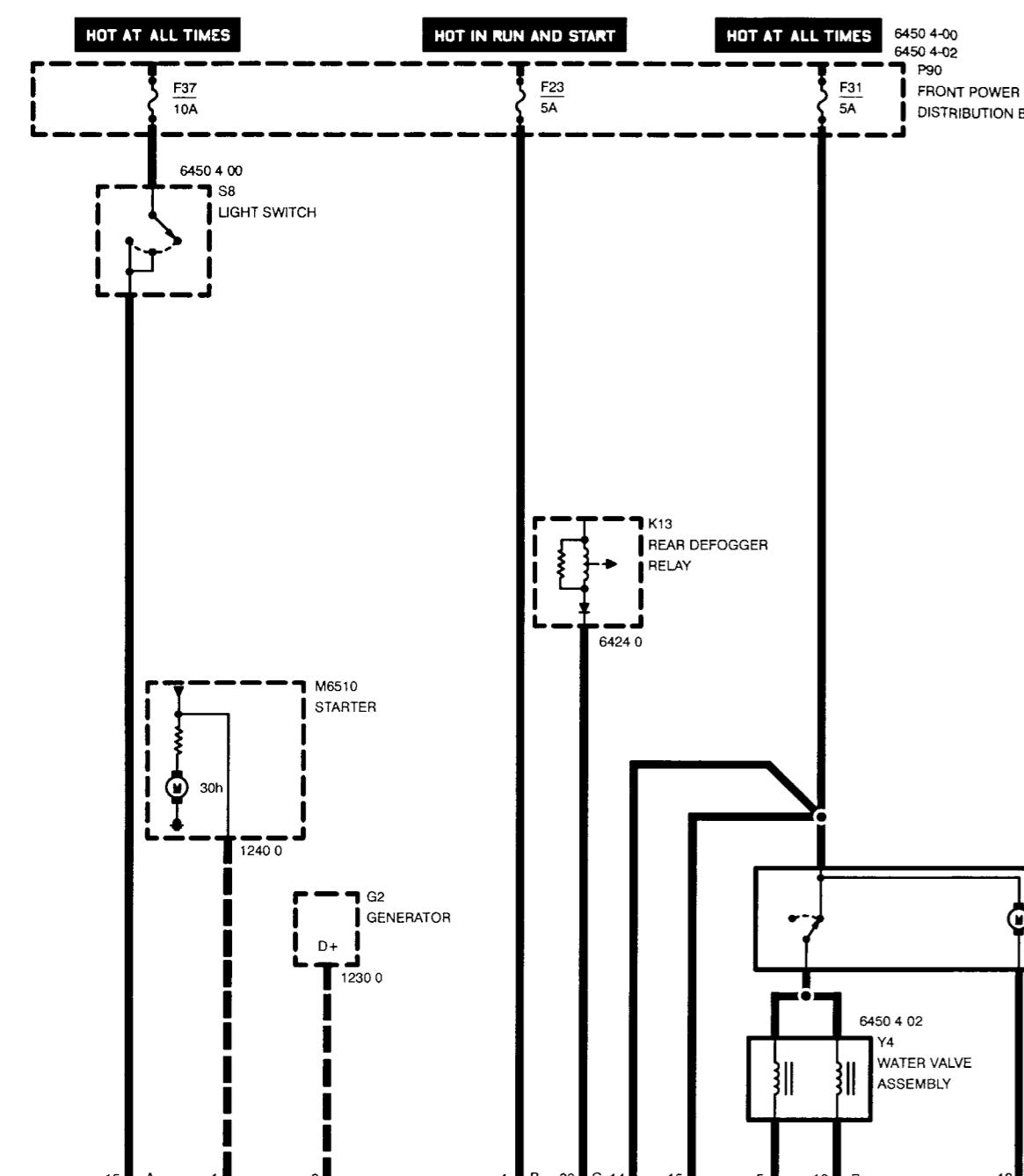


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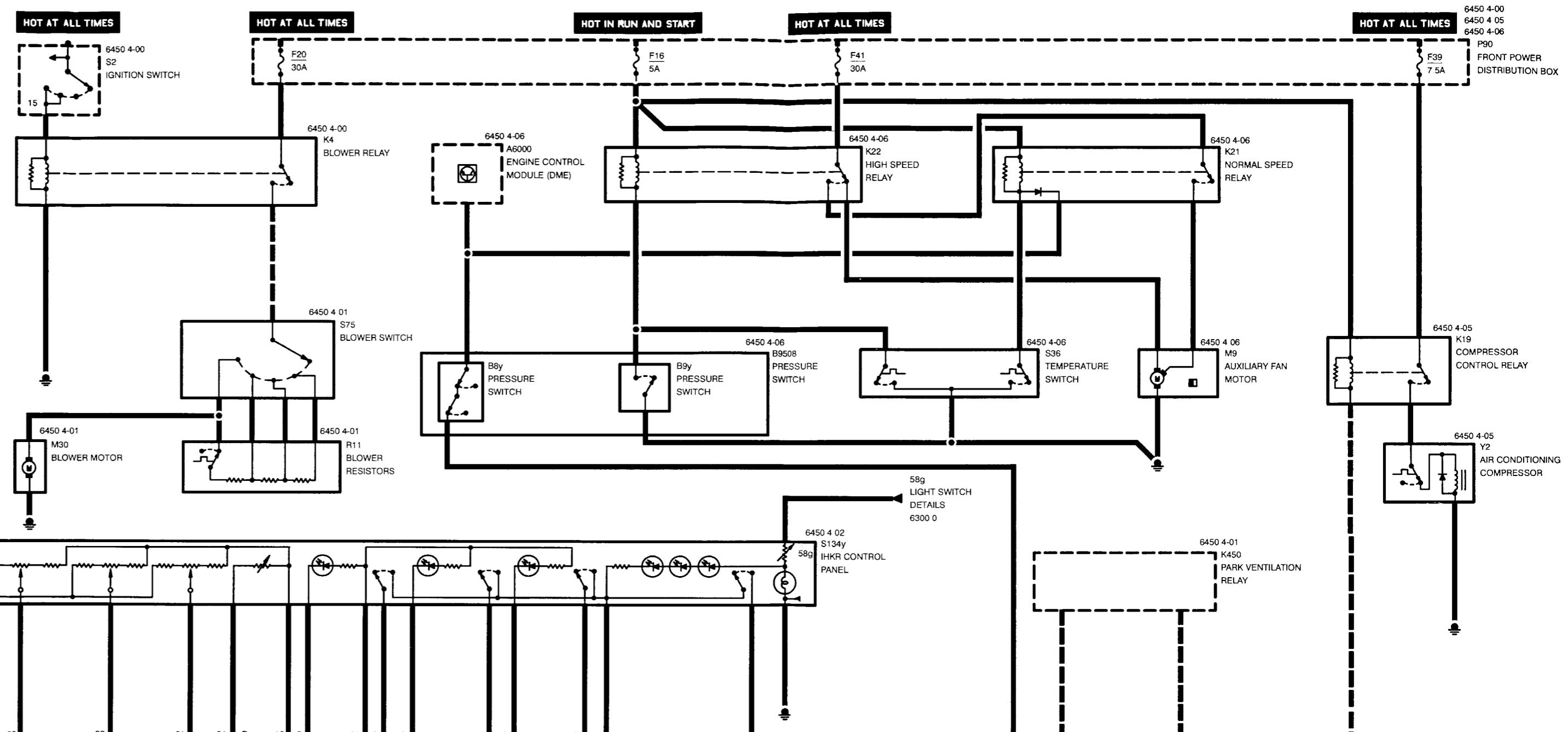
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04/97

6450 4

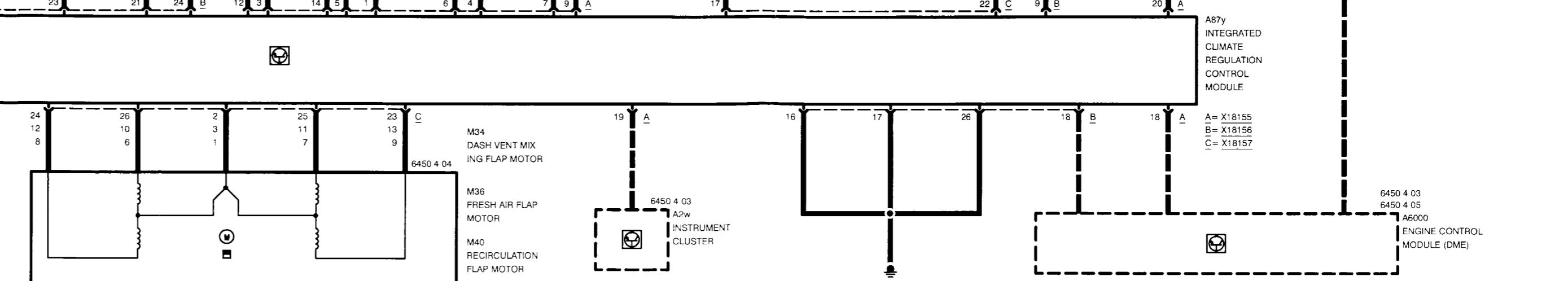
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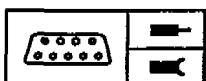


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## Pin Assignments

A = X18155 26 Pins, white

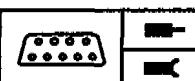
B = X18156 26 Pins, black

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



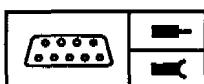
## Pin Assignments

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



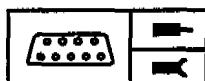
## Pin Assignments

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

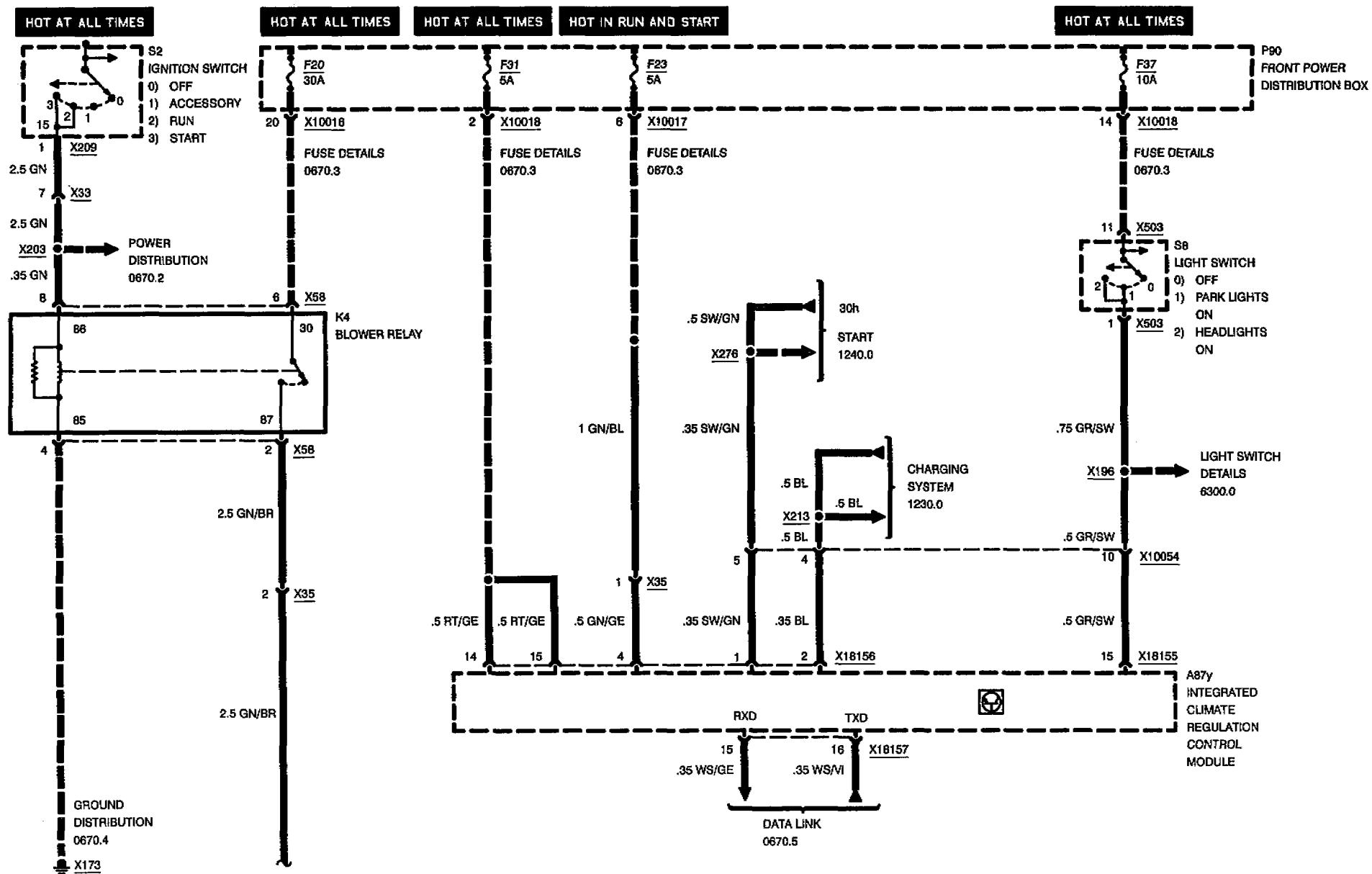
Pin	Type	Description/Function	Connection
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

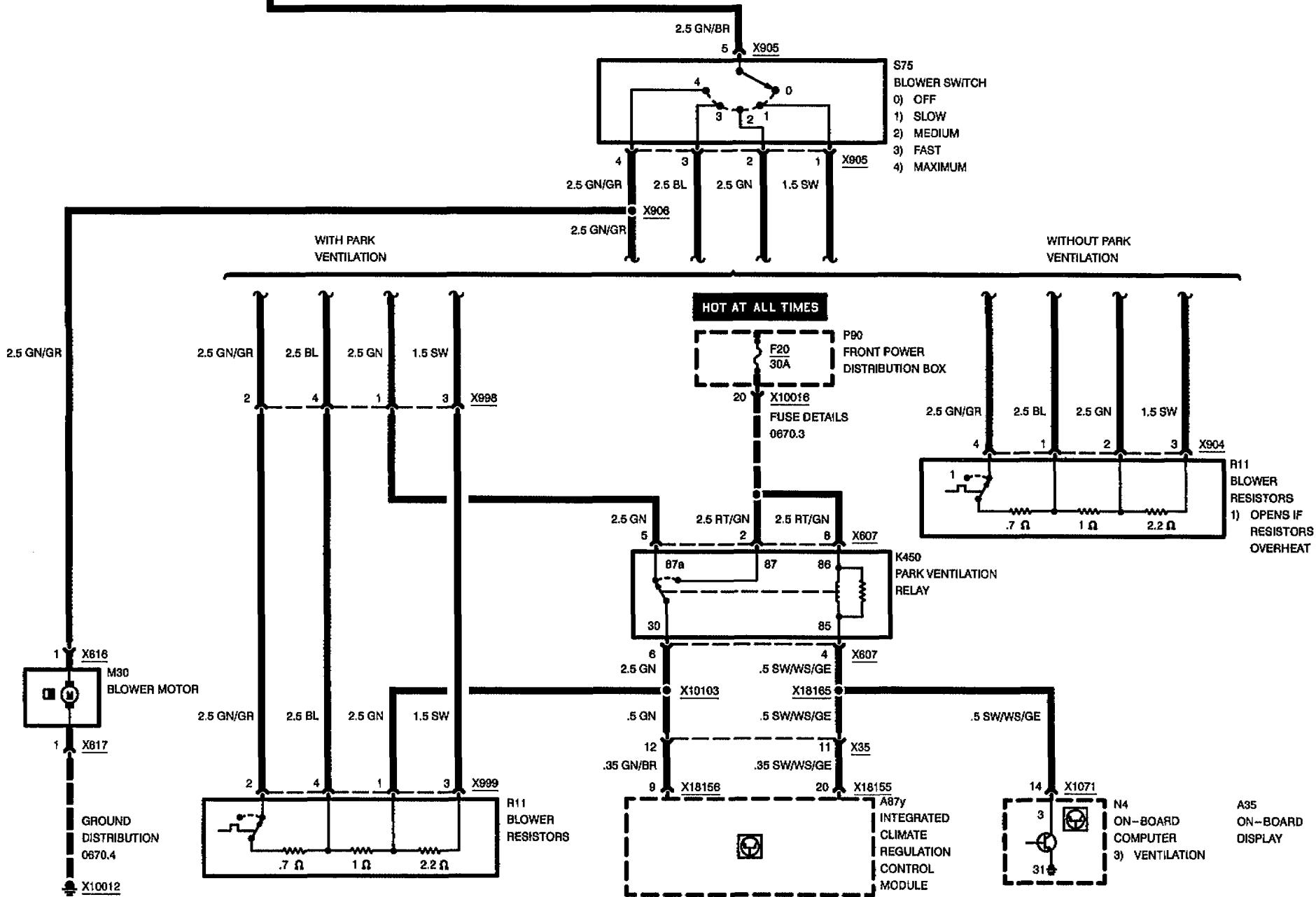
E = Input, A = Output, M = Ground



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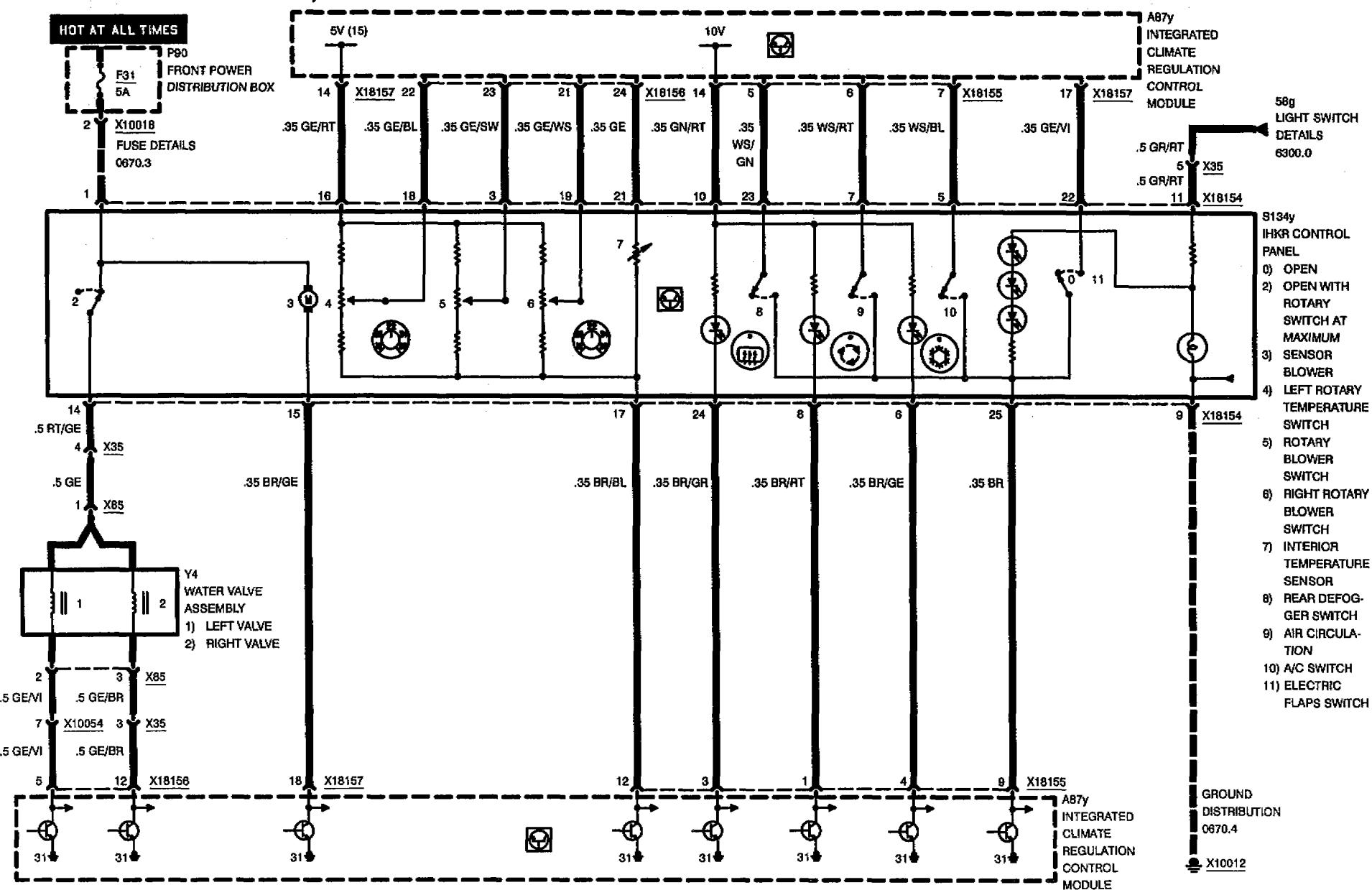
## POWER, BLOWER CONTROLS





## INTEGRATED CLIMATE REGULATION (IHKR E36)

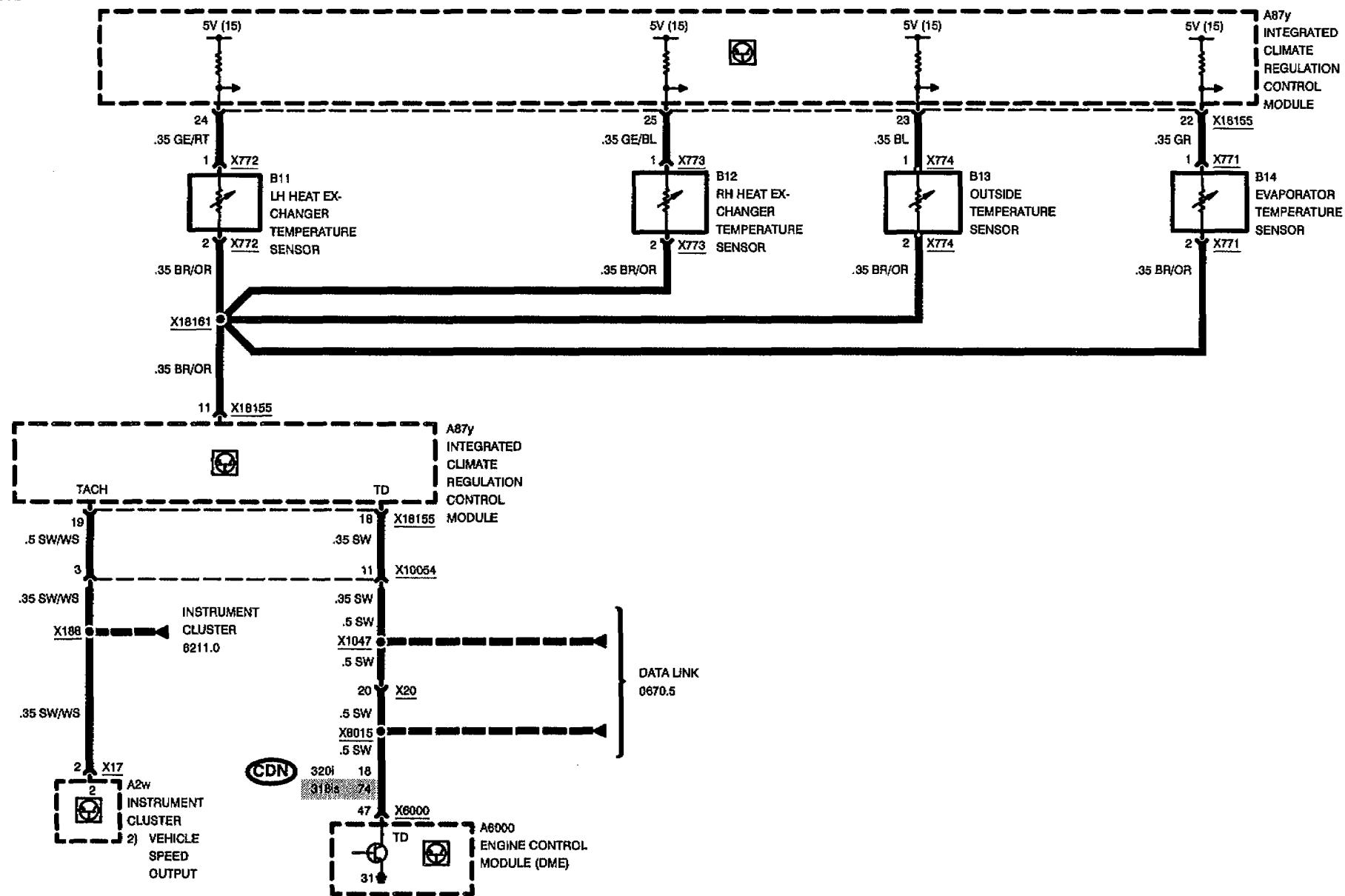
## CONTROL MODULE, WATER VALVES





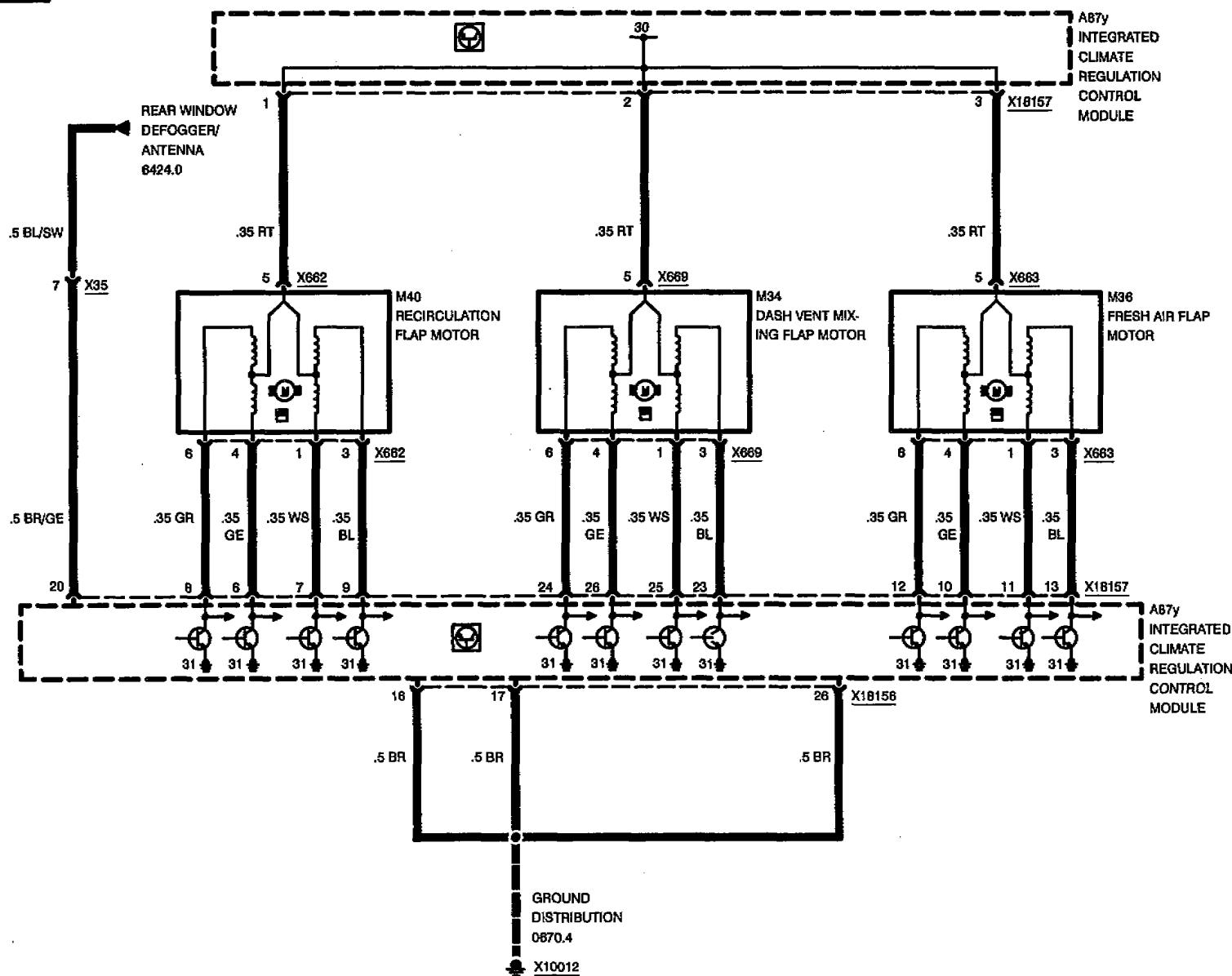
## INTEGRATED CLIMATE REGULATION (IHKR E36)

### TEMPERATURE CONTROL



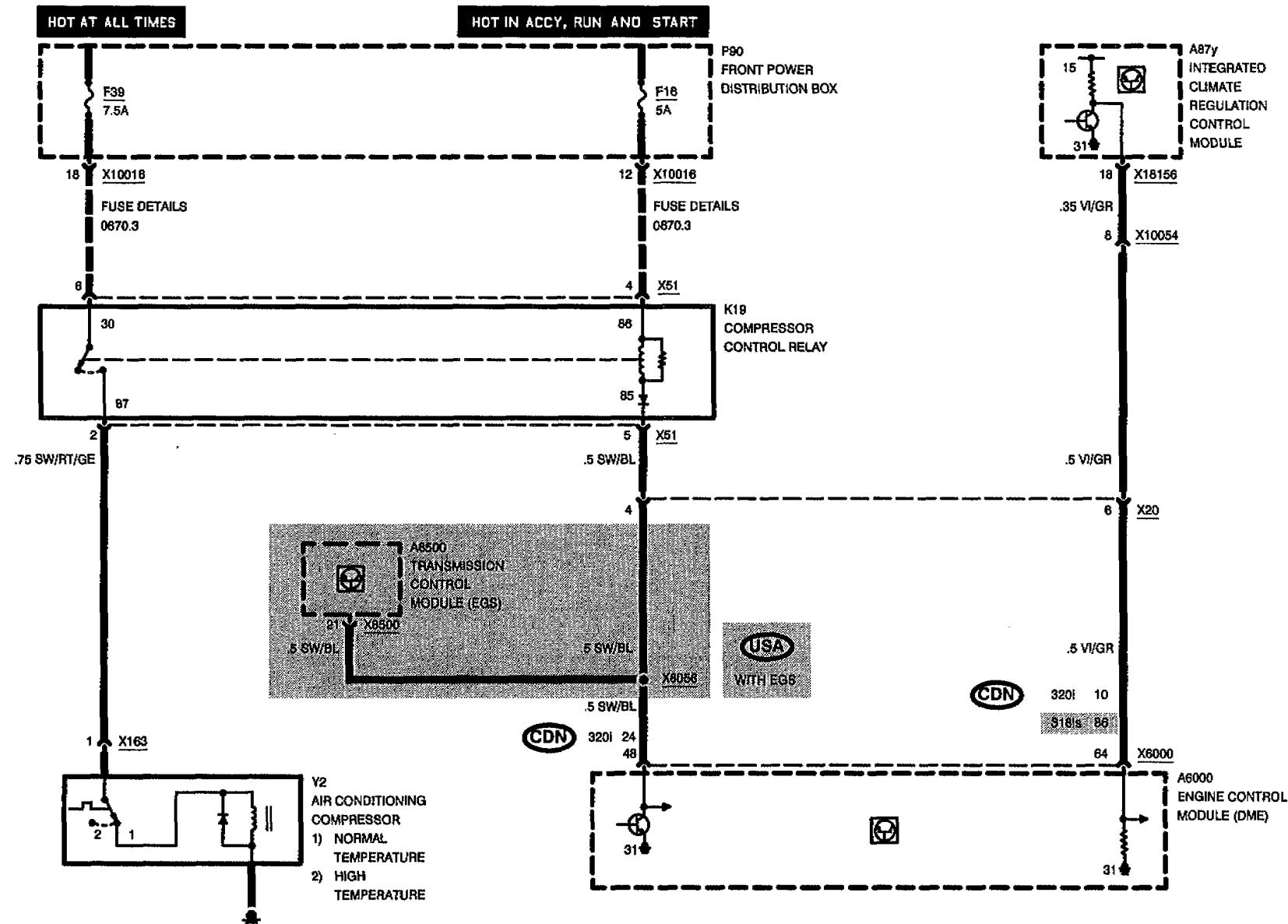
## INTEGRATED CLIMATE REGULATION (IHKR E36)

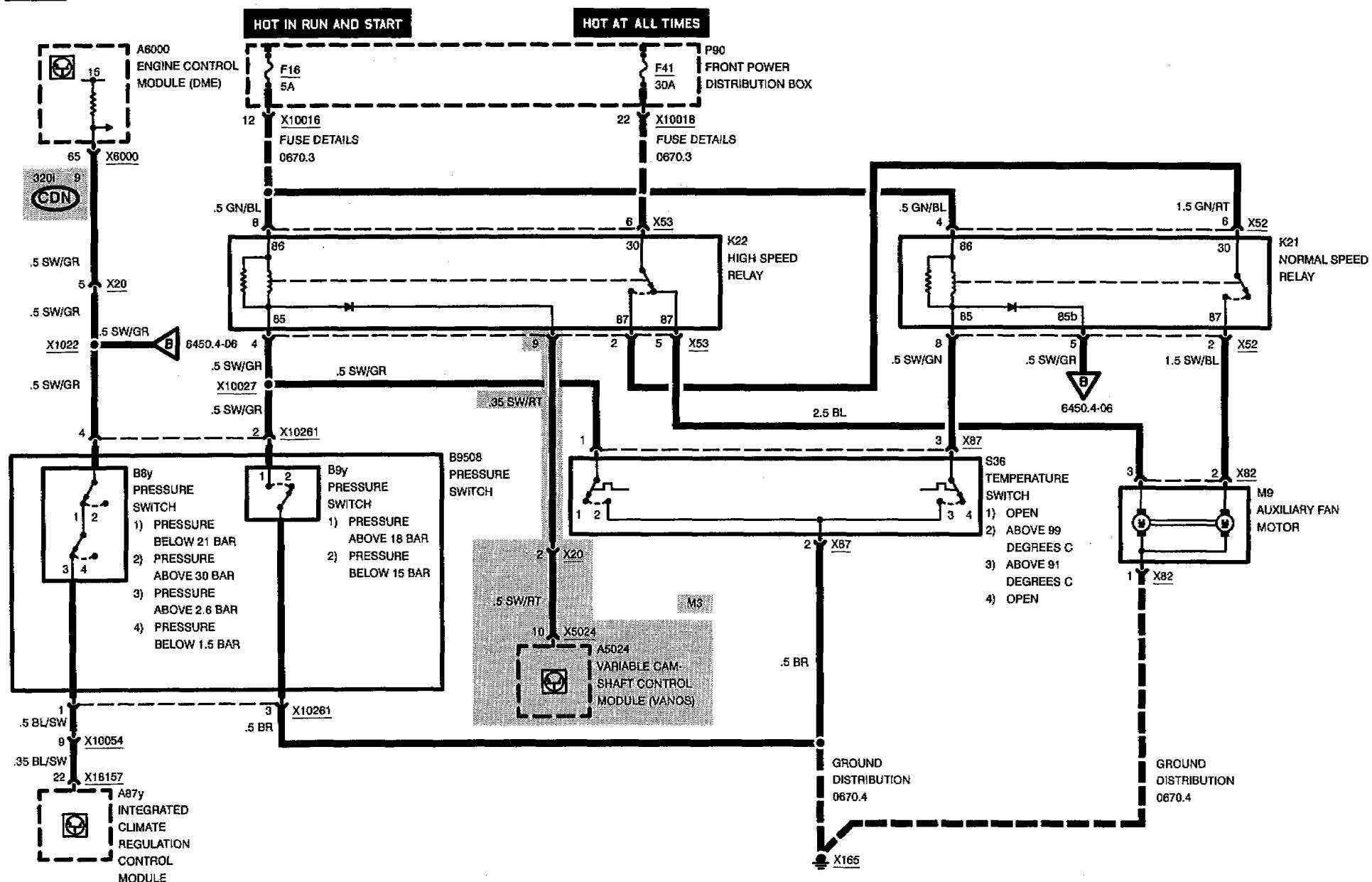
## AIR DELIVERY





## INTEGRATED CLIMATE REGULATION (IHKR E36) COMPRESSOR CONTROLS

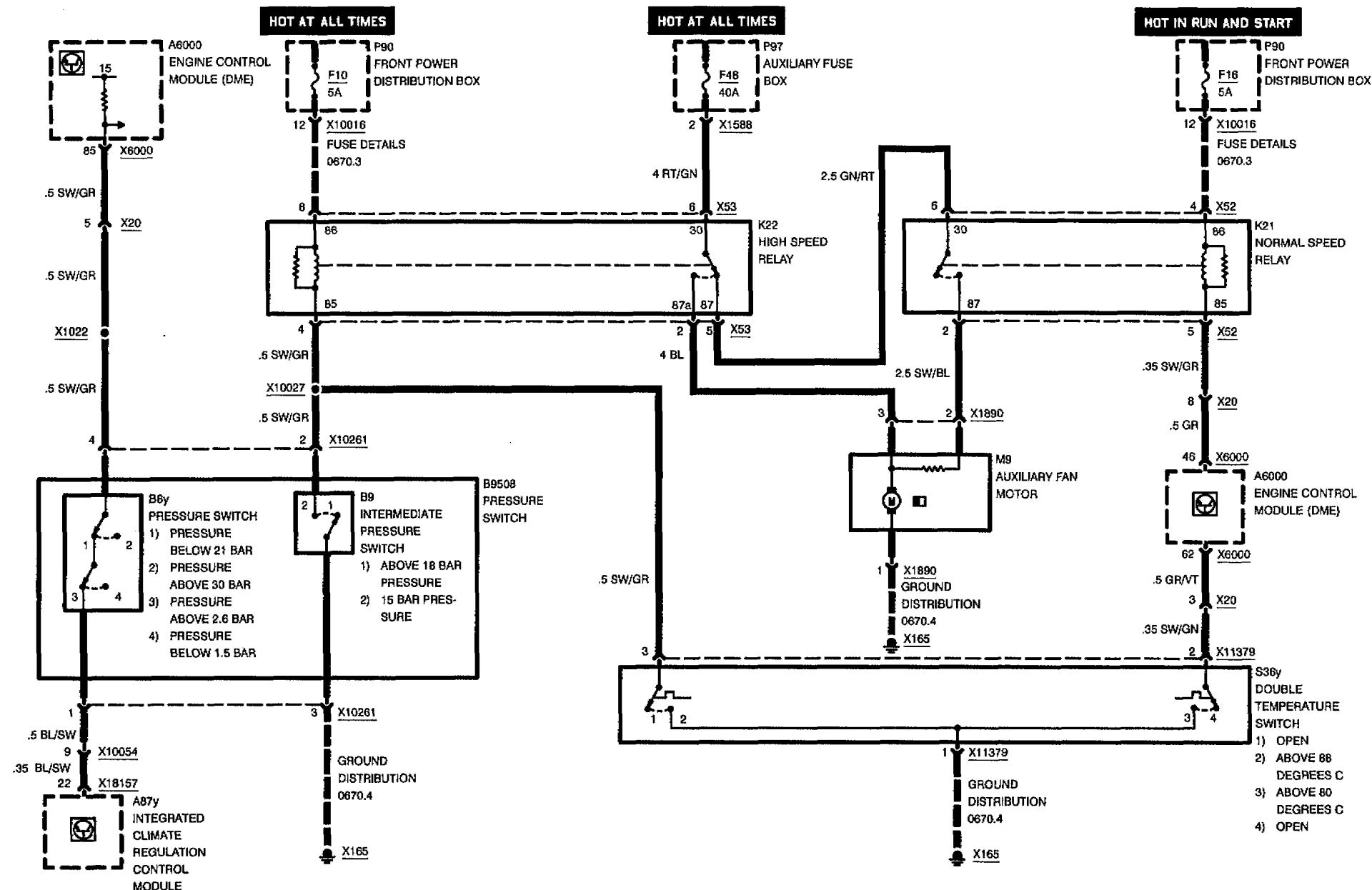






## INTEGRATED CLIMATE REGULATION (IHKR E36)

### AUXILIARY FAN – 4-CYLINDER ENGINE





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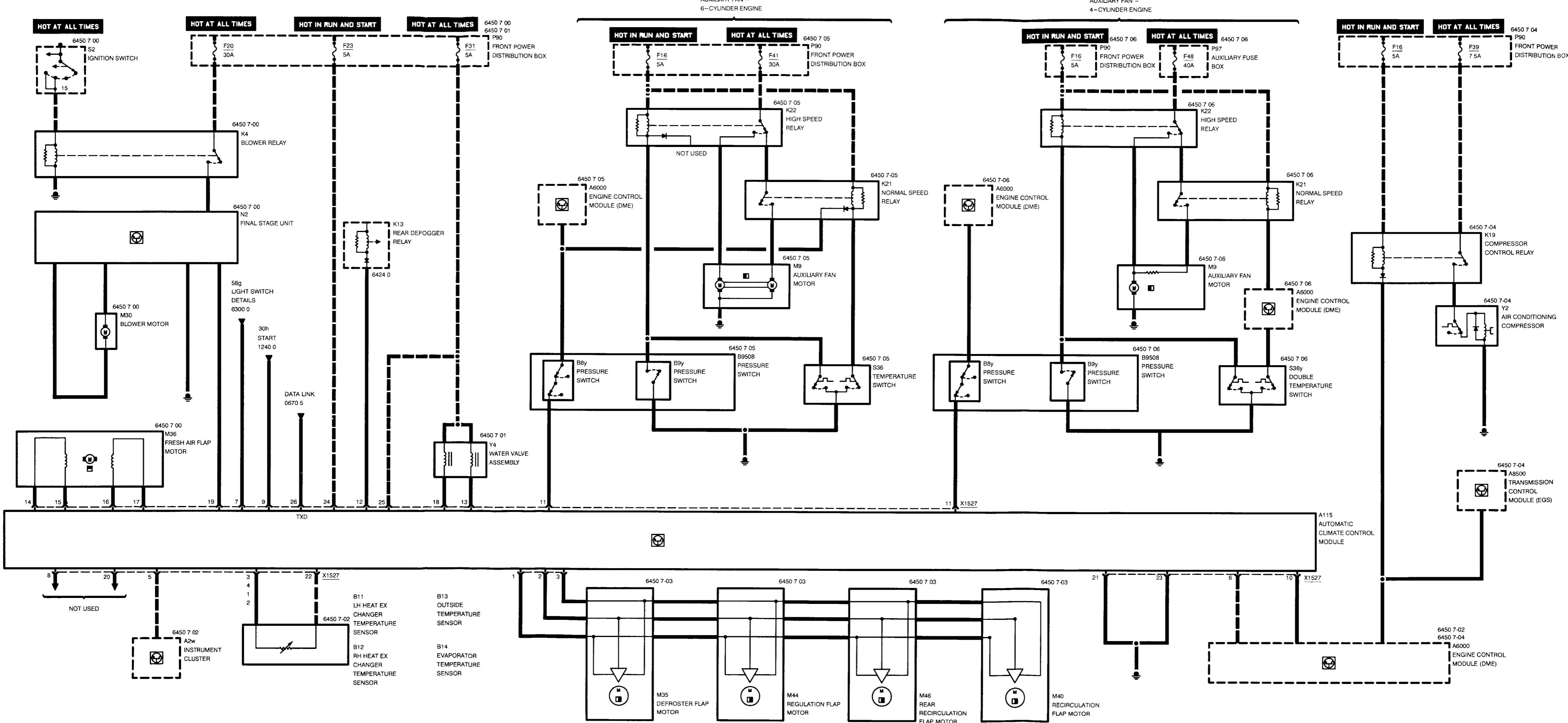
- 6450 -

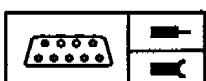
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Page 1

03

996





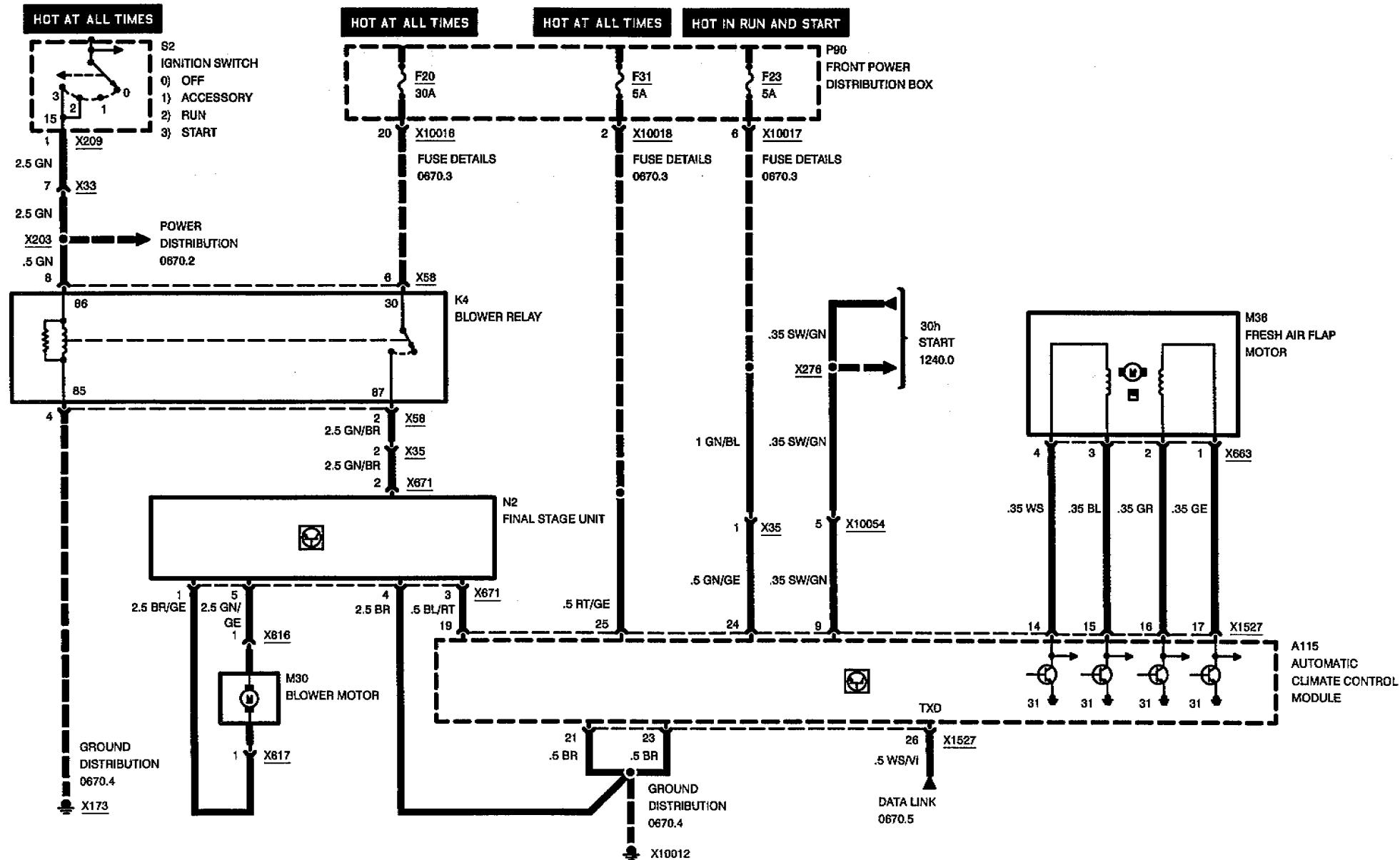
## Pin Assignments

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

## POWER, AIR FLOW CONTROL





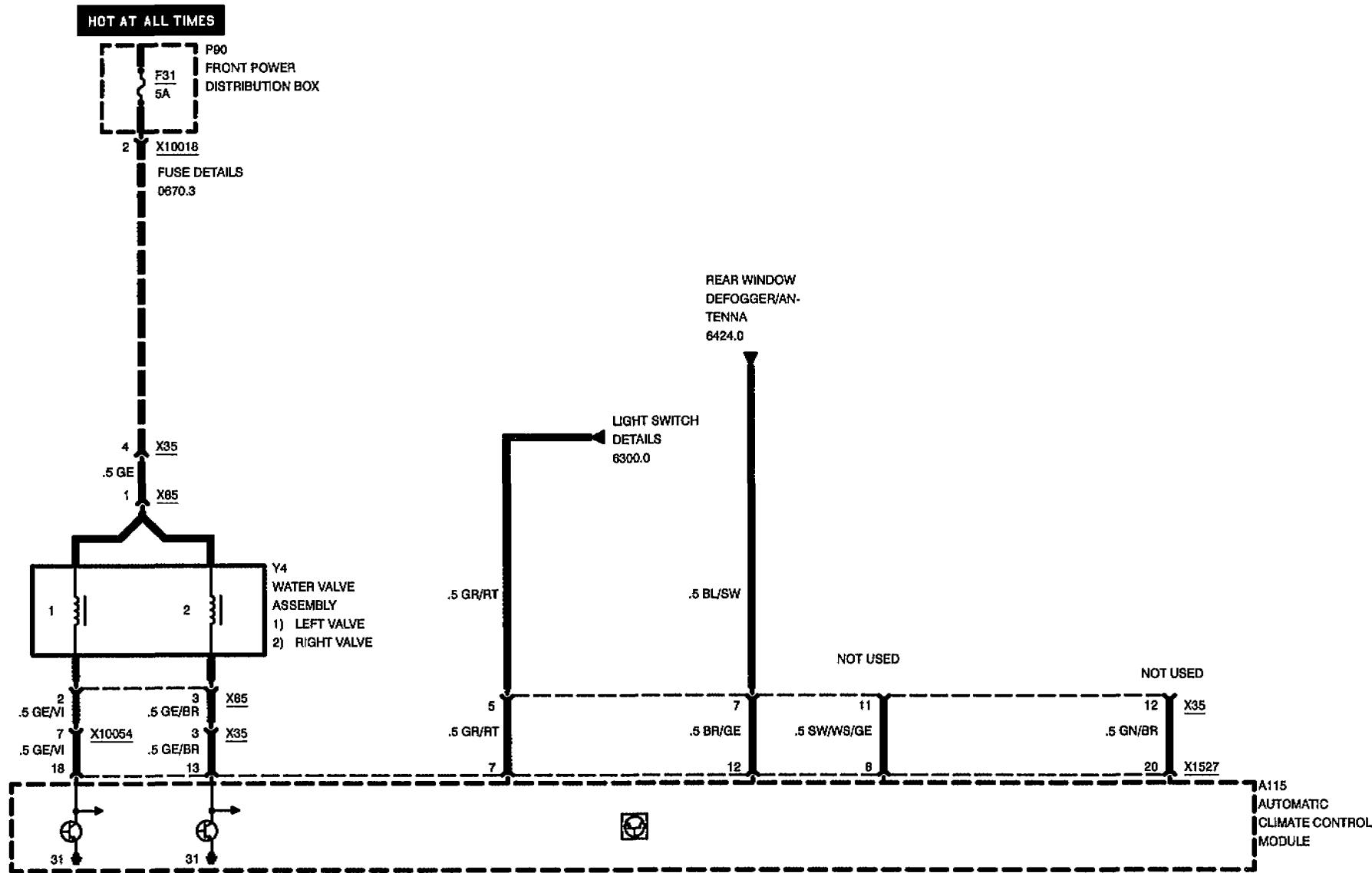
## INTEGRATED CLIMATE REGULATION (IHKA E36)

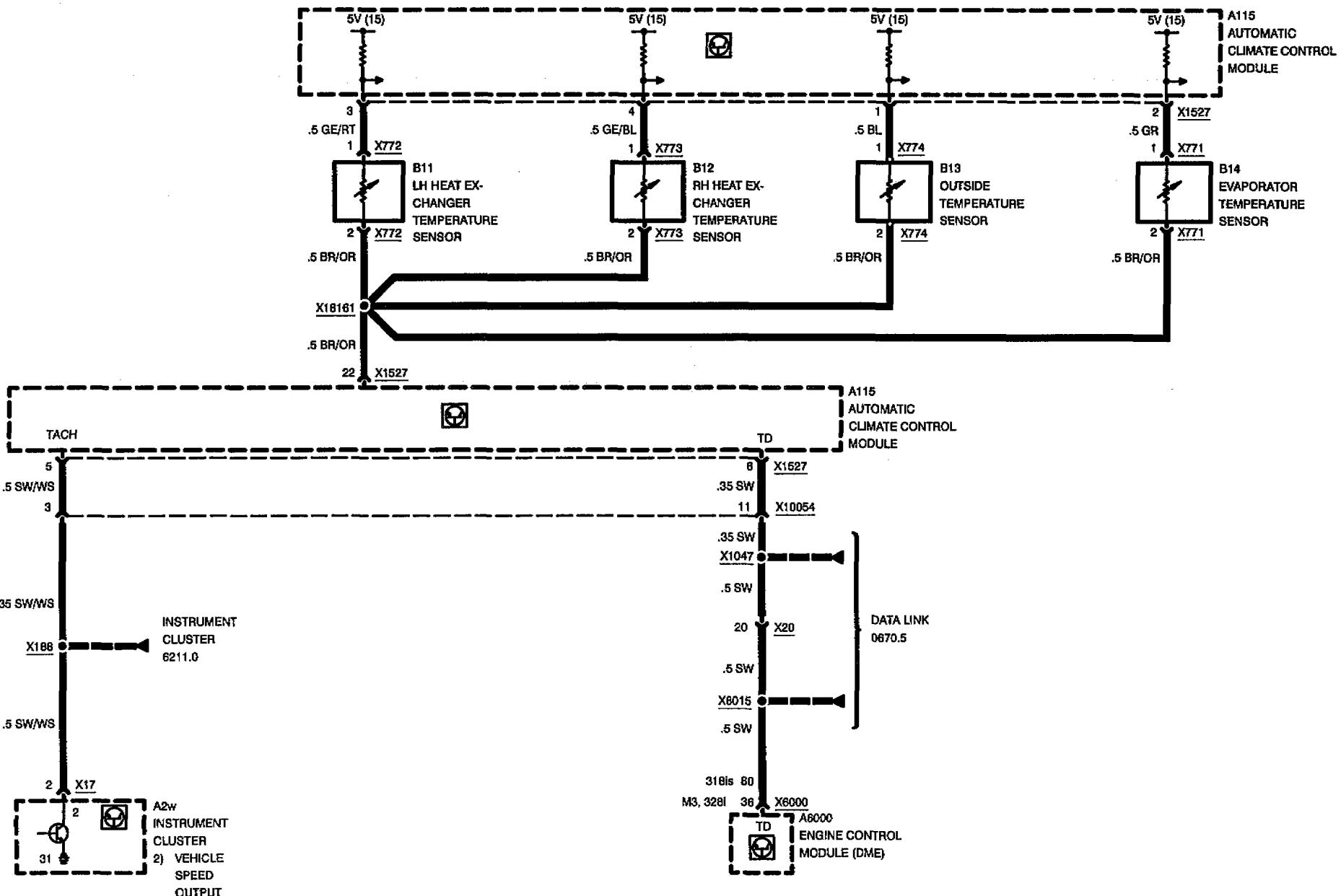
318is, 328i, M3 LATE PRODUCTION

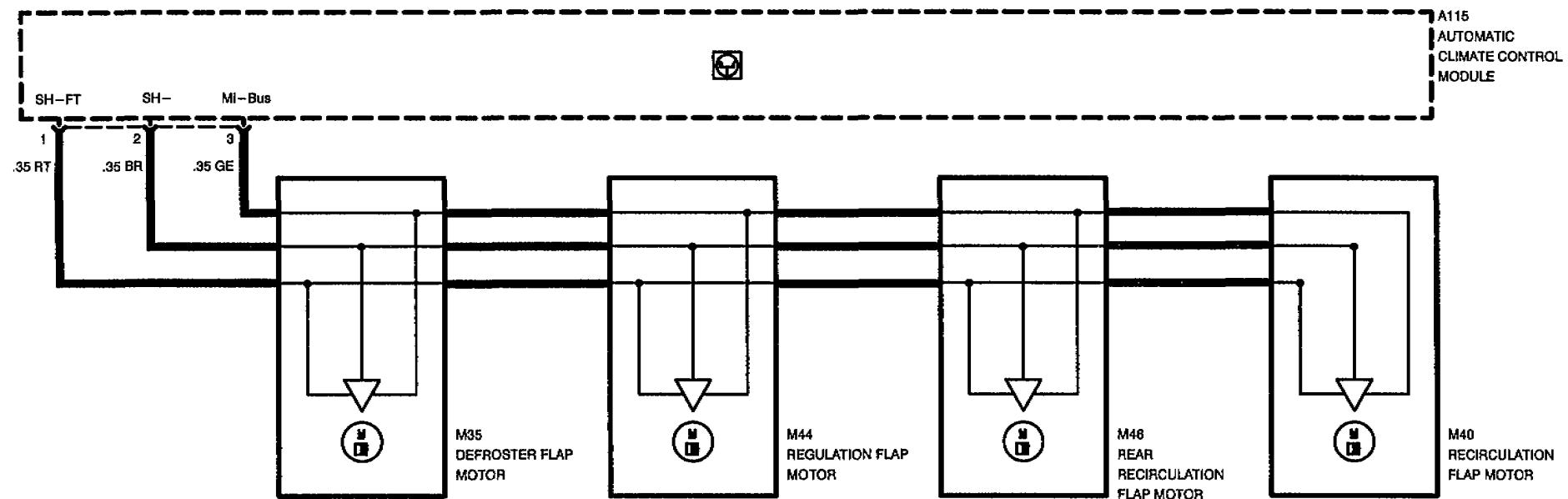
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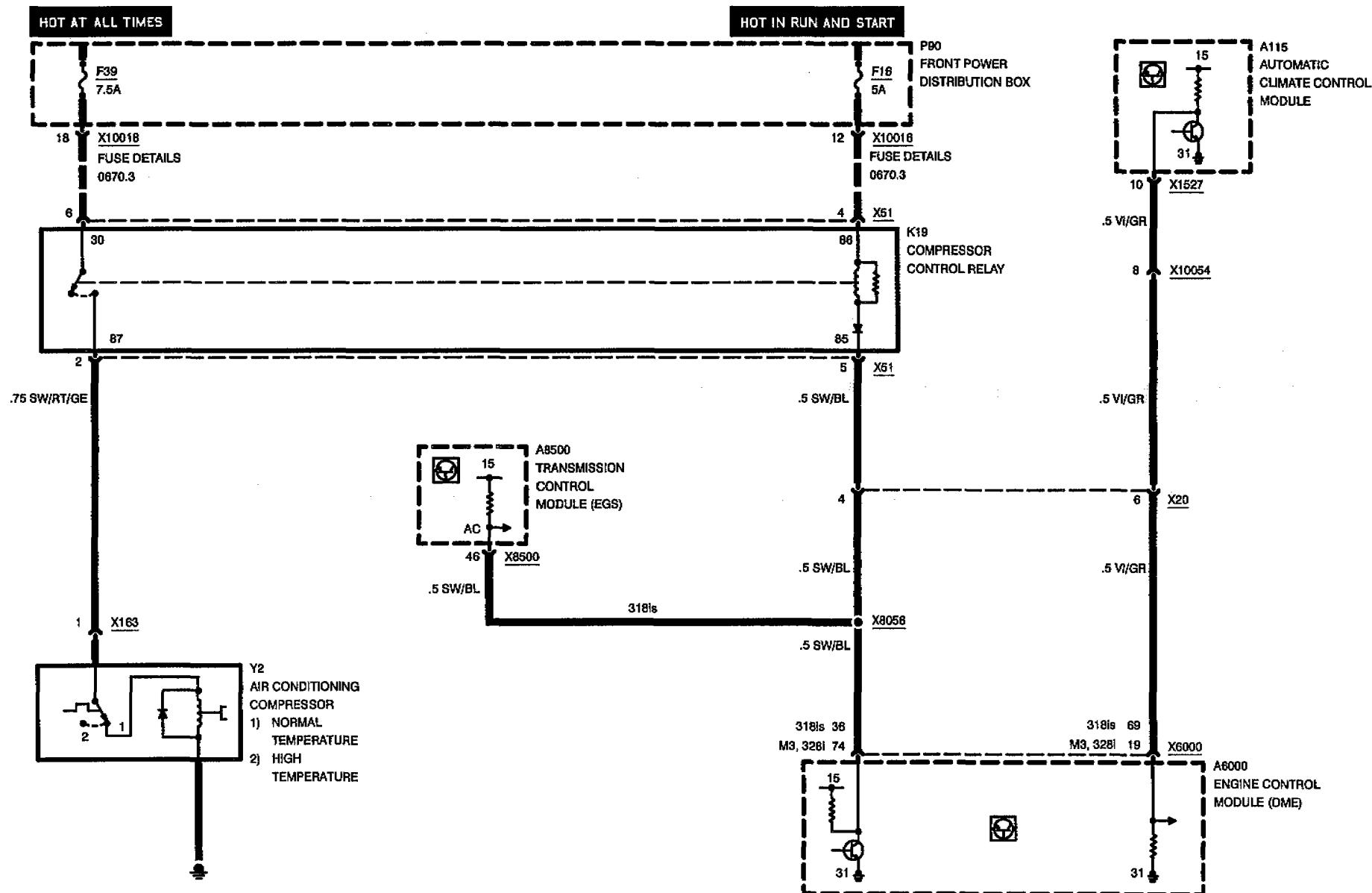
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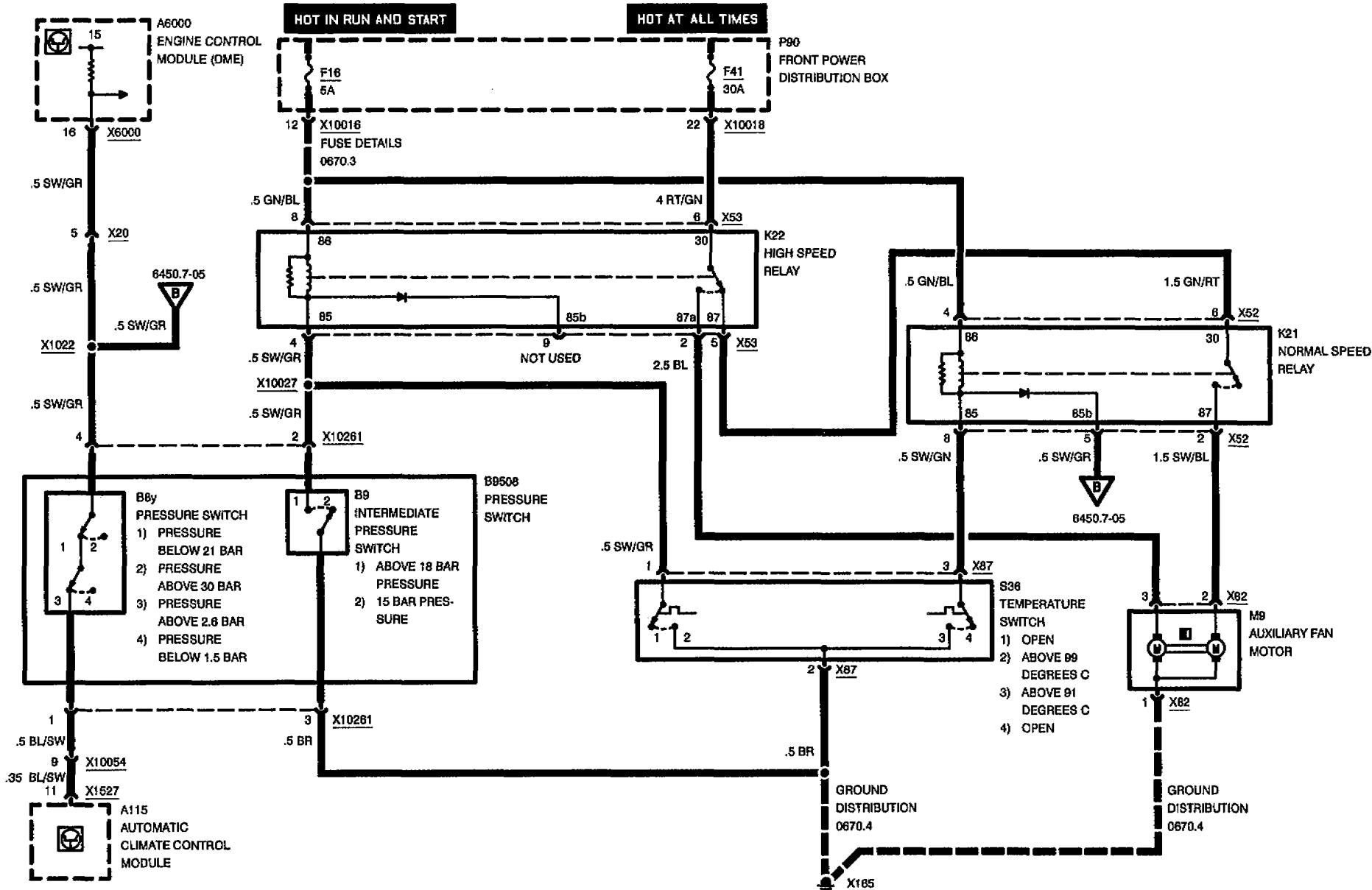


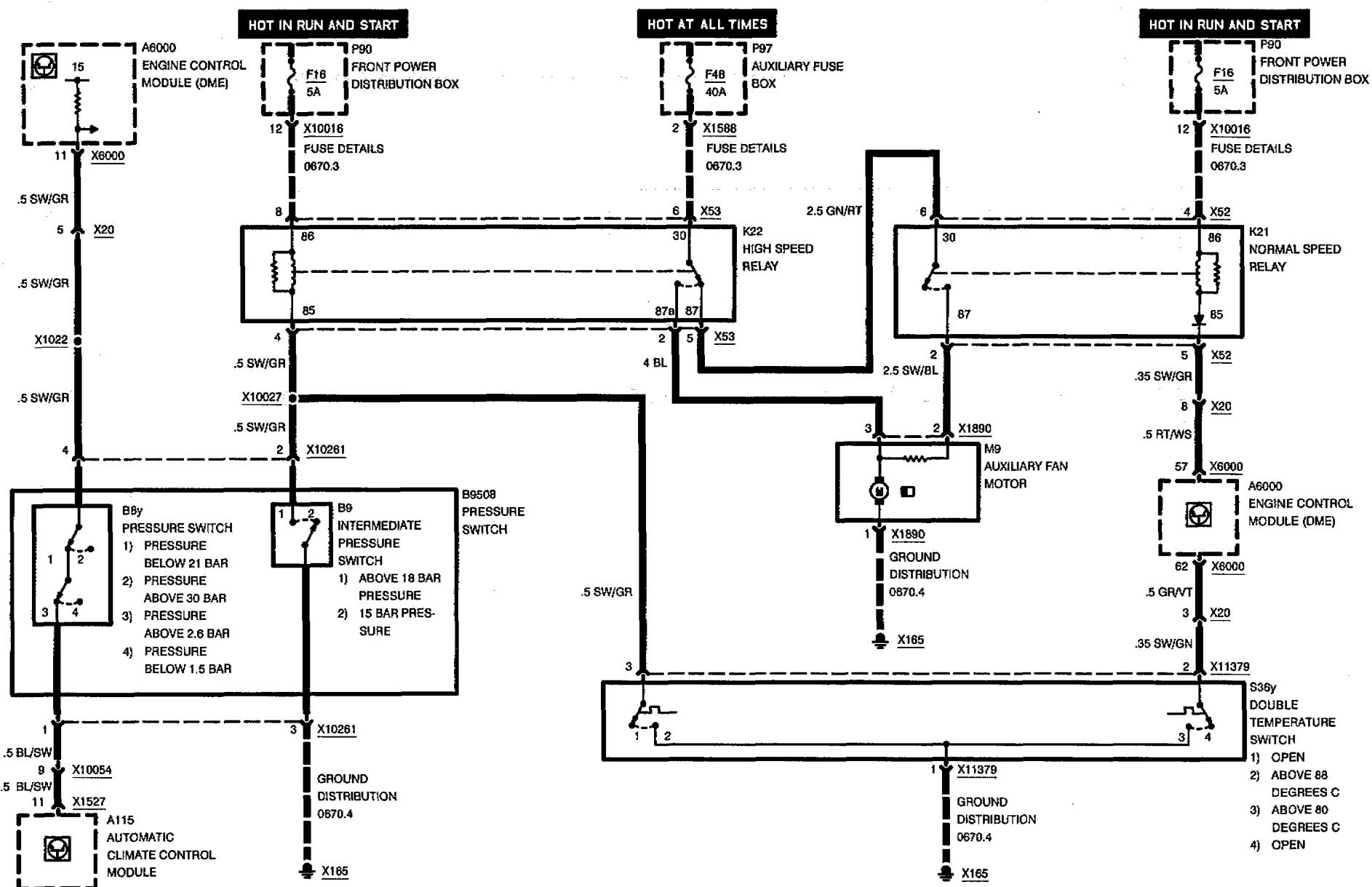






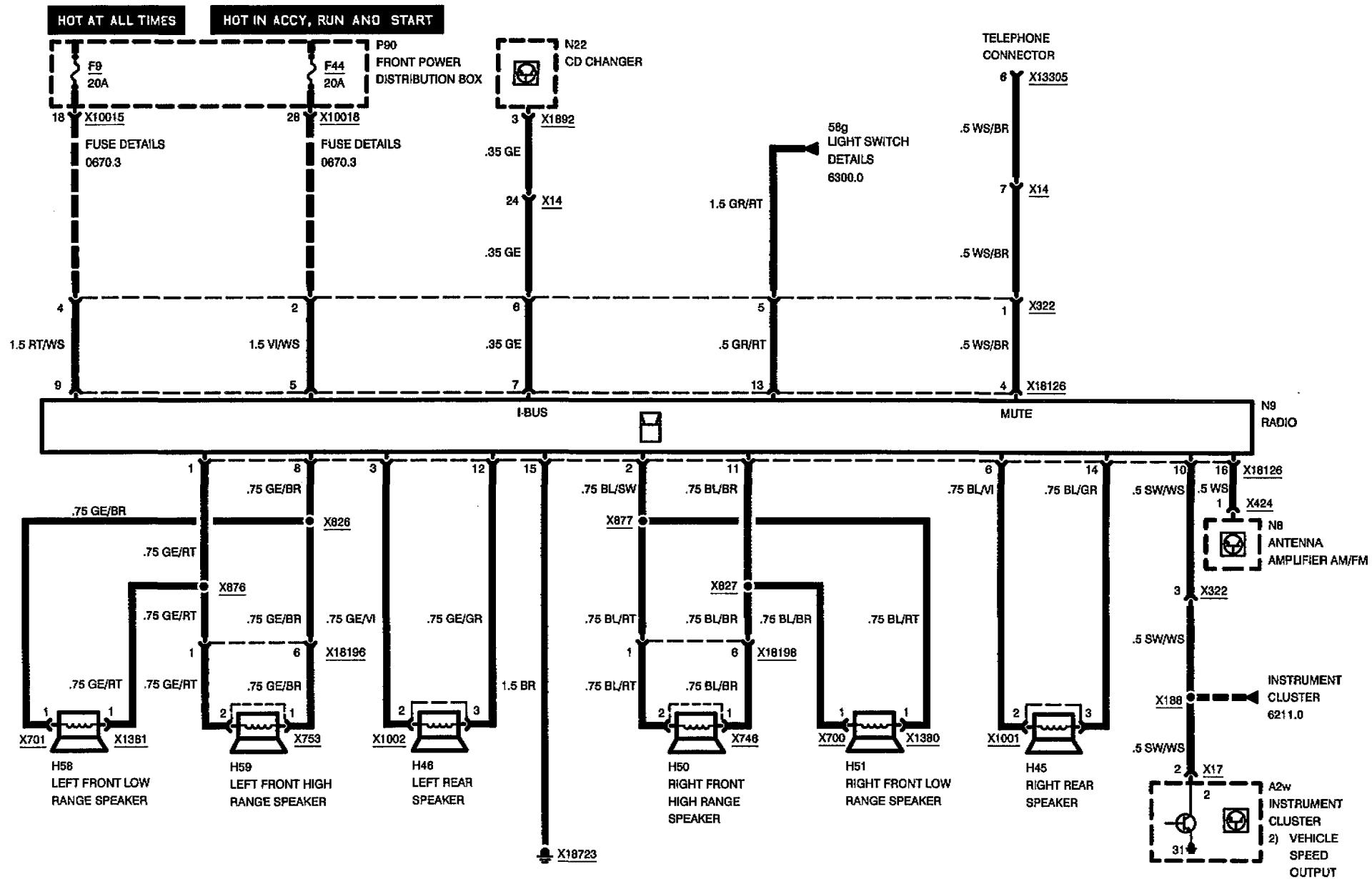
## AUXILIARY FAN – 6-CYLINDER ENGINE





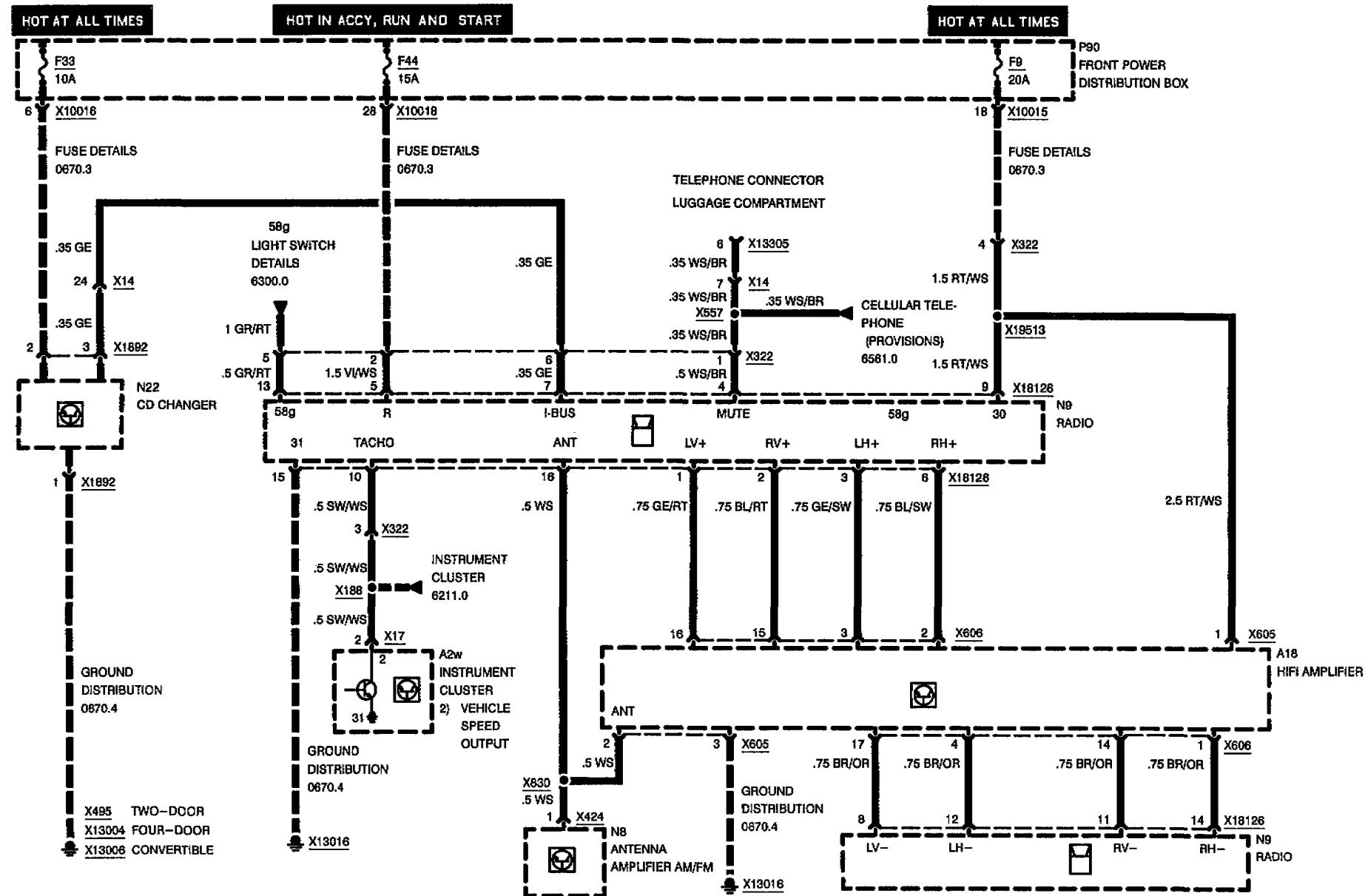


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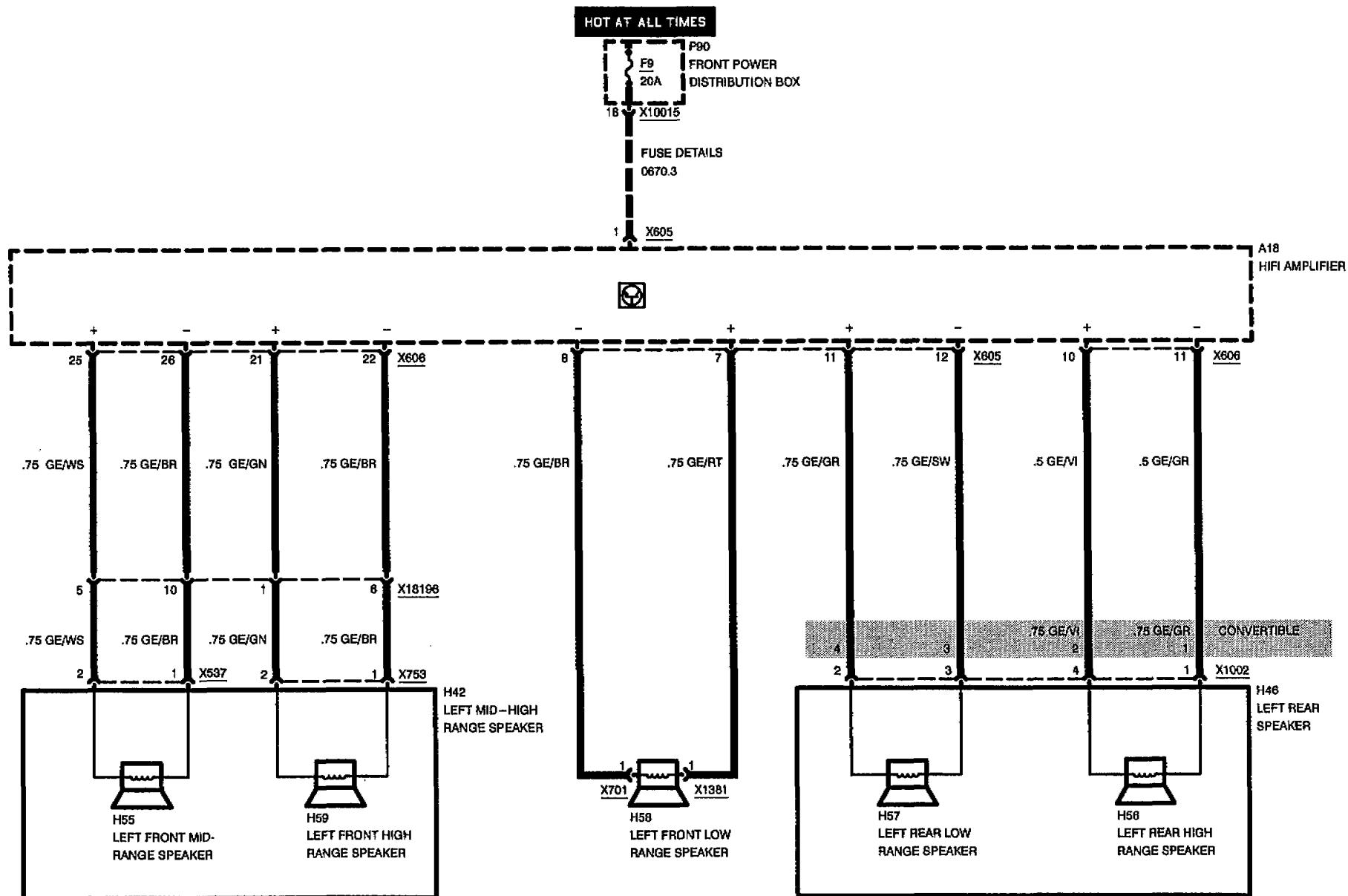
## RADIO/HIFI

### HIFI, 10-SPEAKER SYSTEM

04/97

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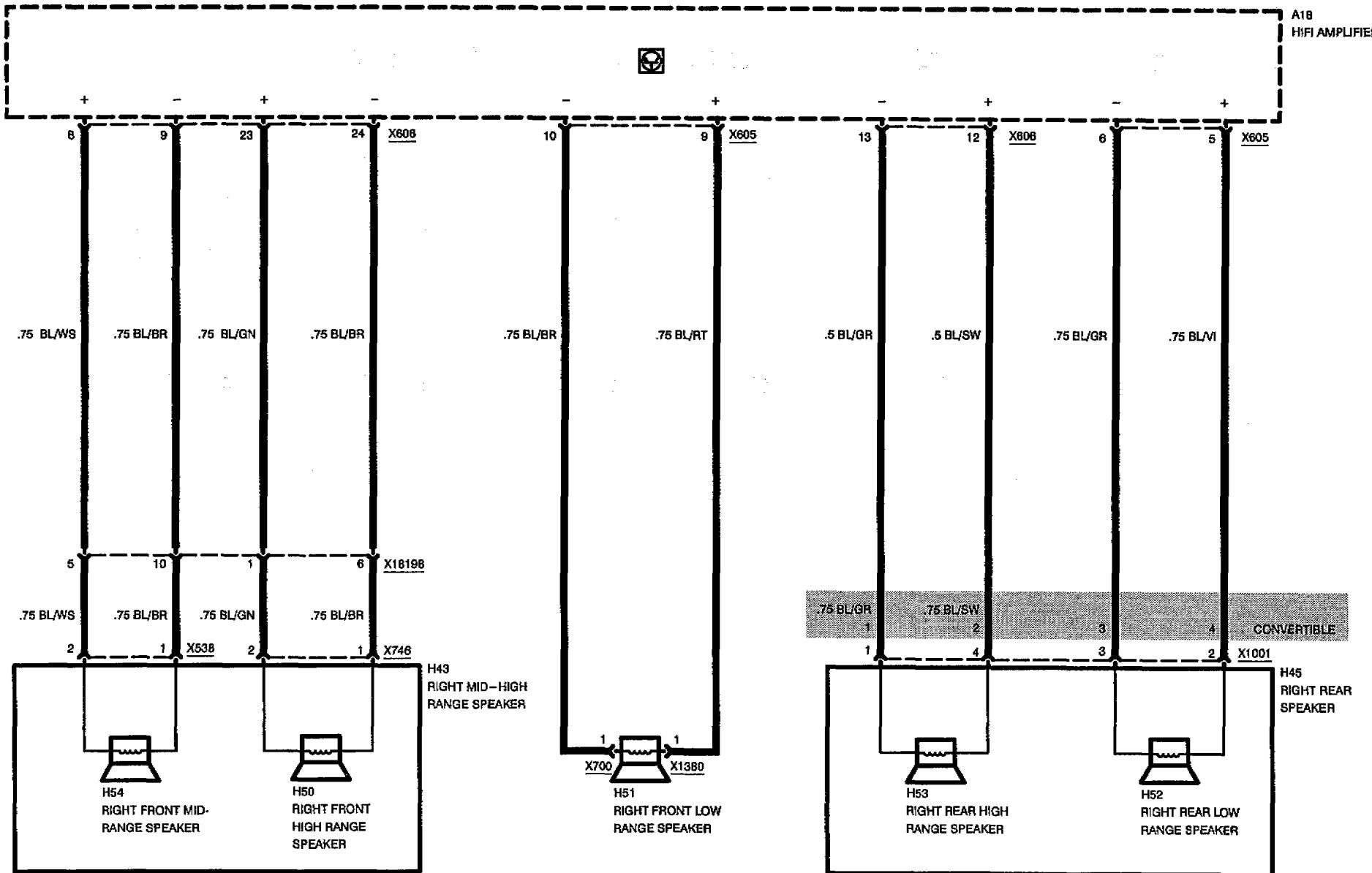
# RADIO/HIFI

## HIFI, 10-SPEAKER SYSTEM

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— 6510.1-02 —

1996





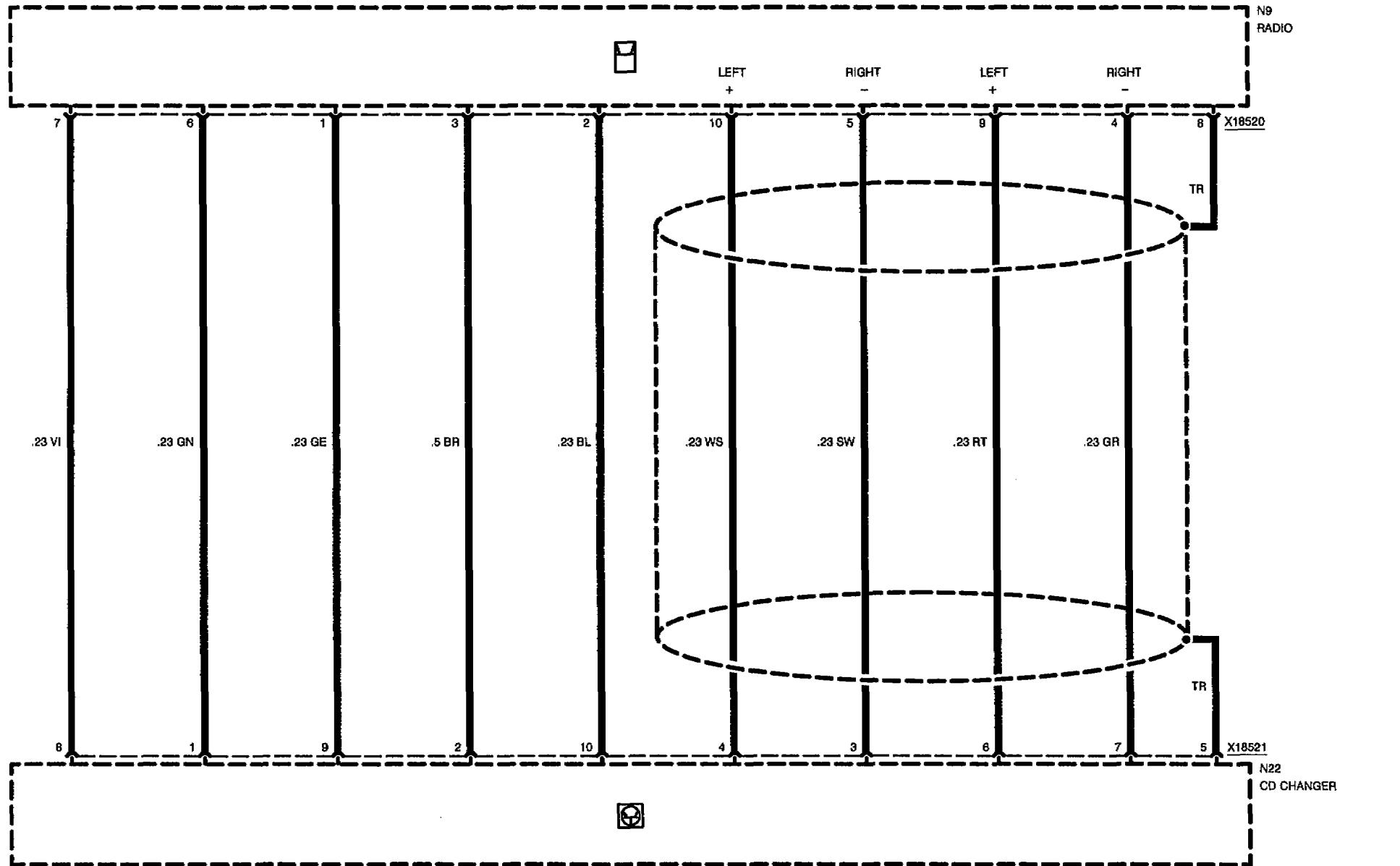
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

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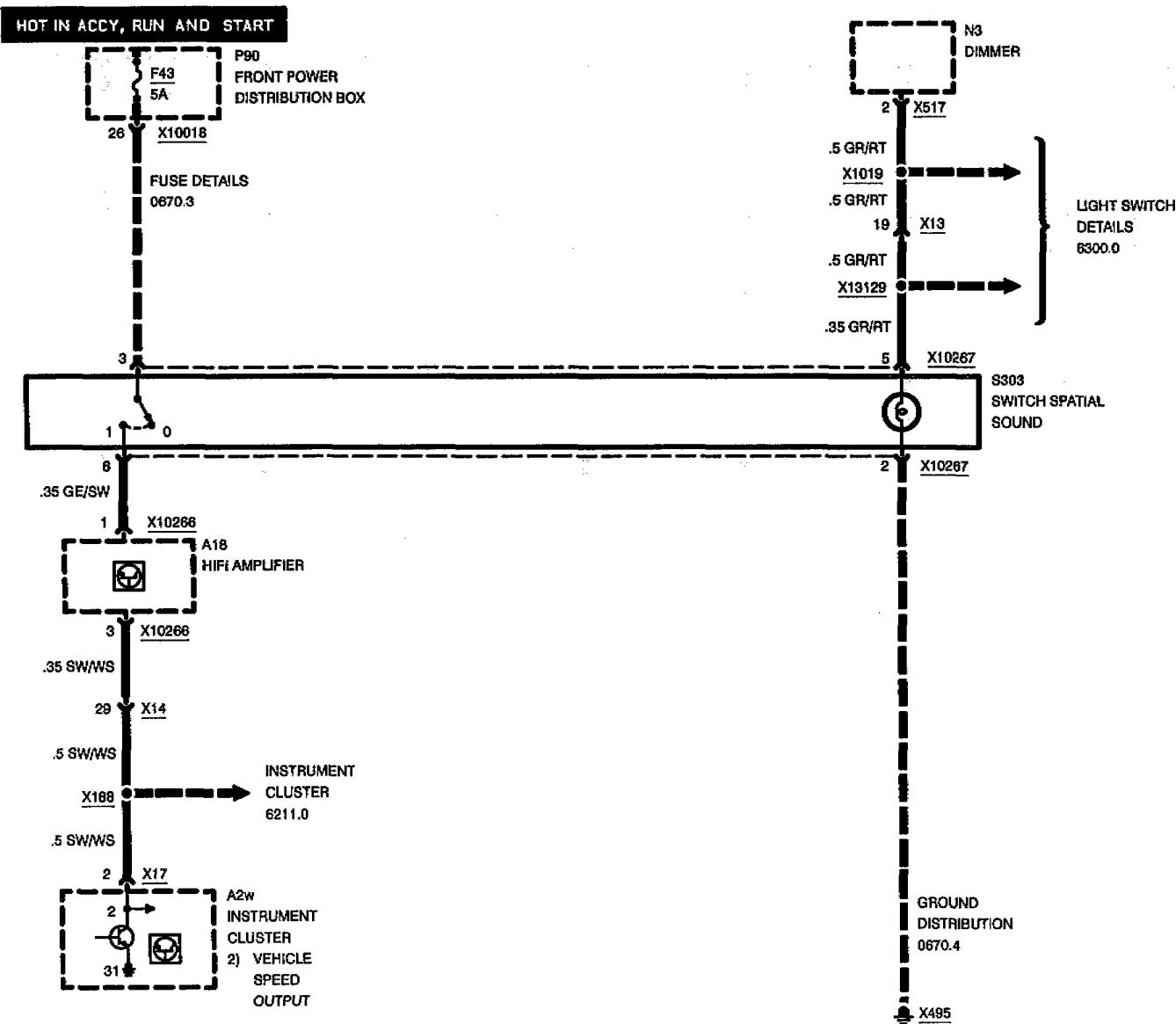
RADIO/HIFI

#### **HIFI, 10-SPEAKER SYSTEM**

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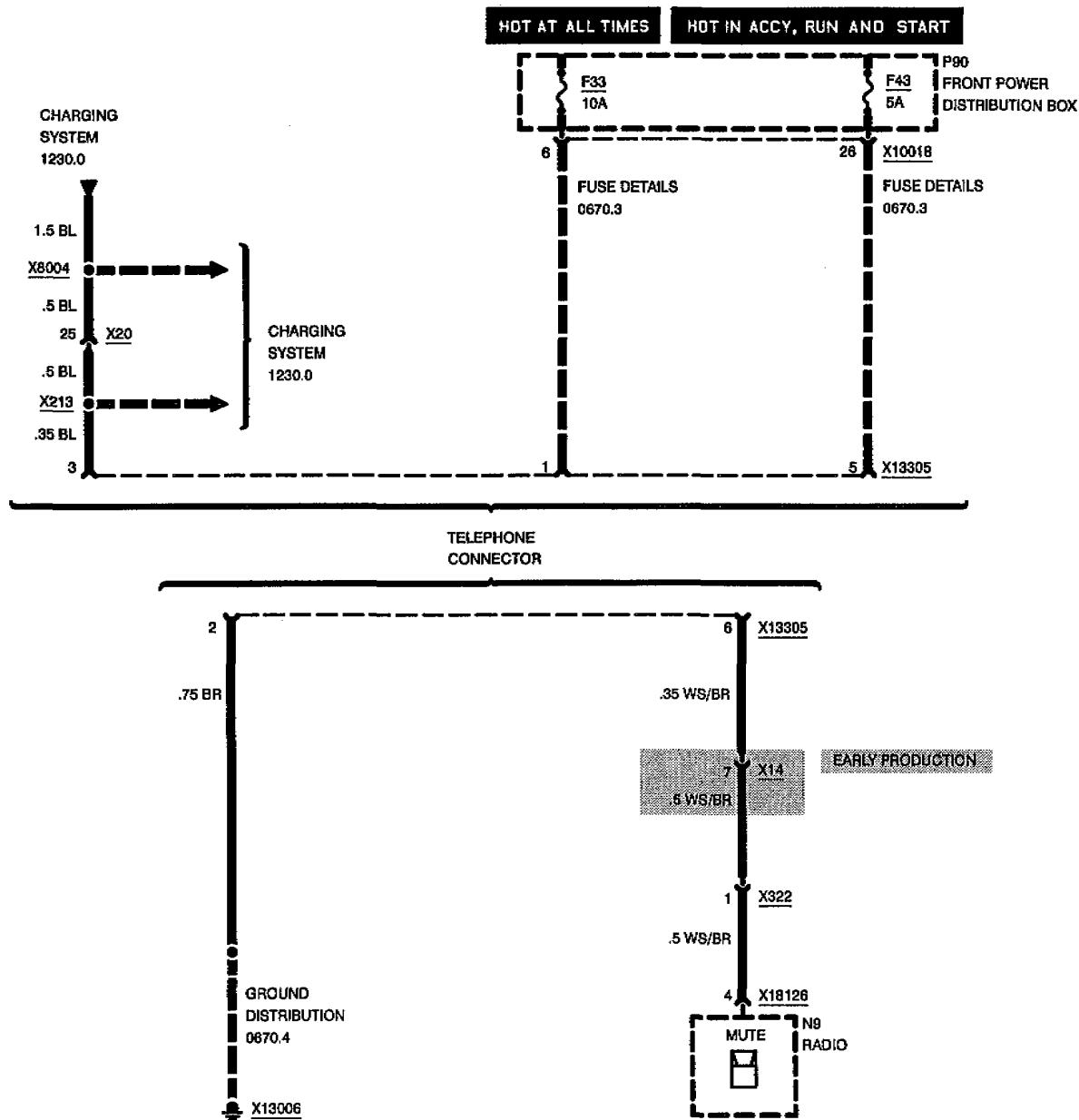




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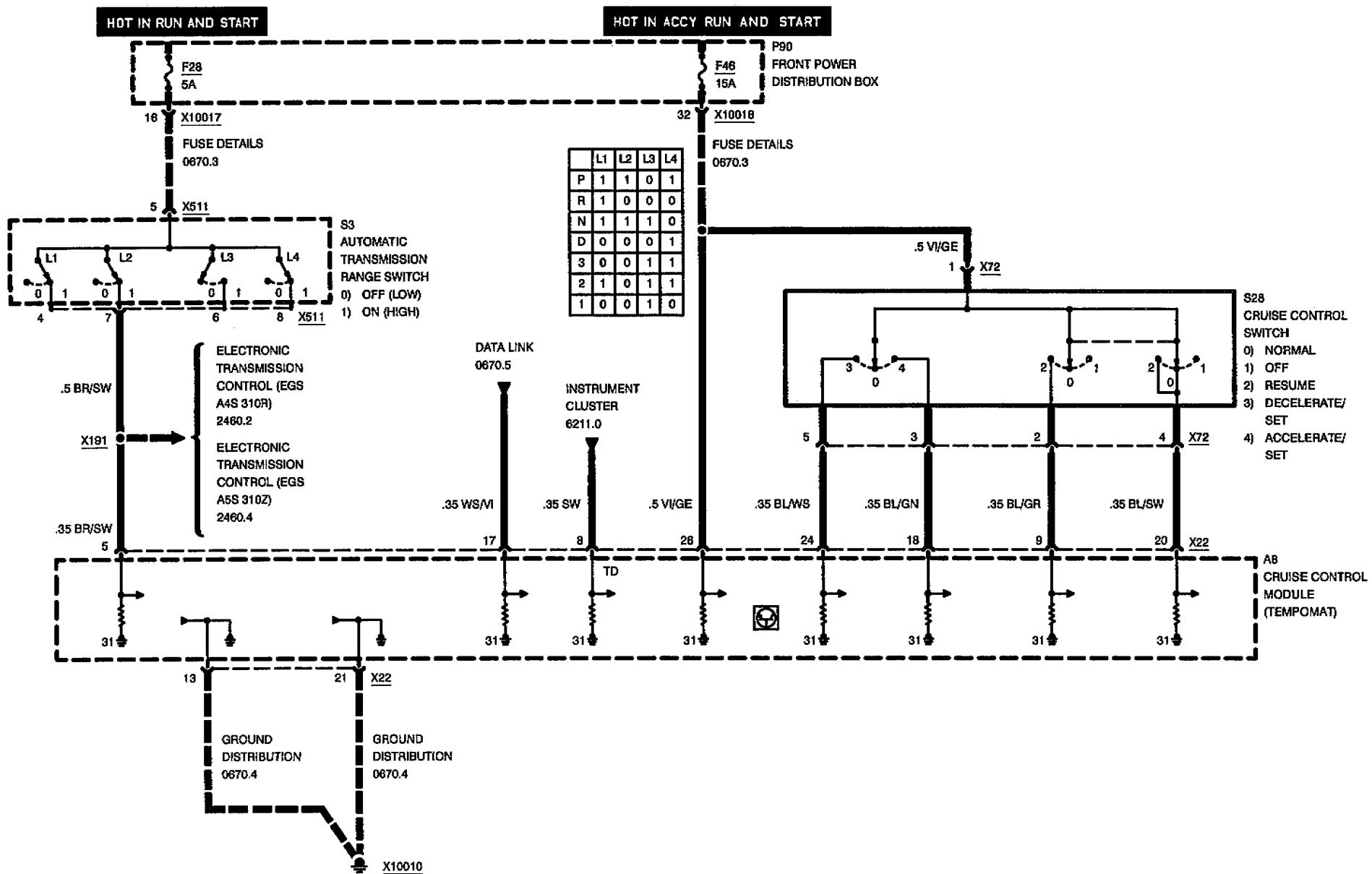
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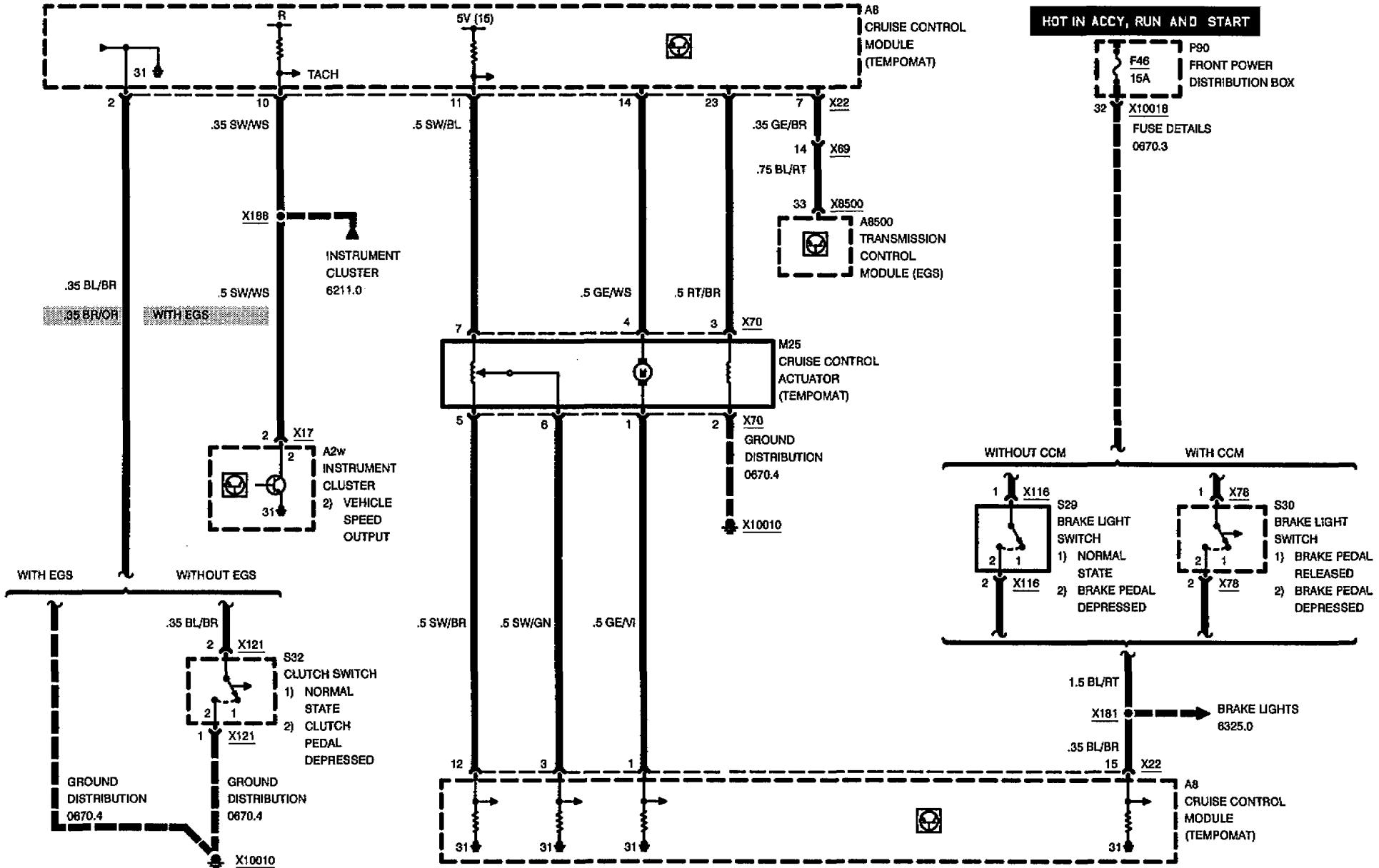
## PROVISIONS





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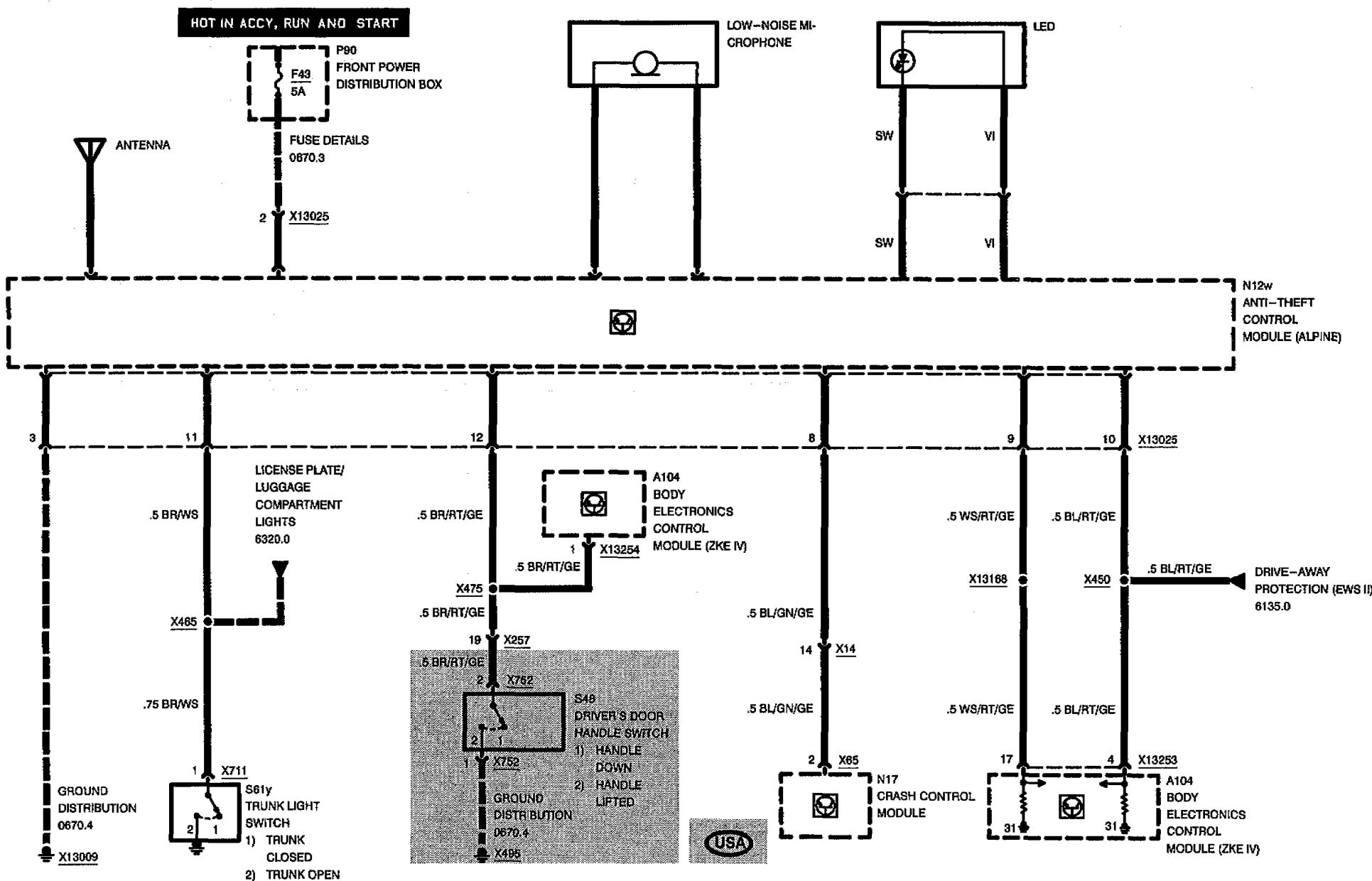


## ANTI-THEFT SYSTEM (ALPINE)

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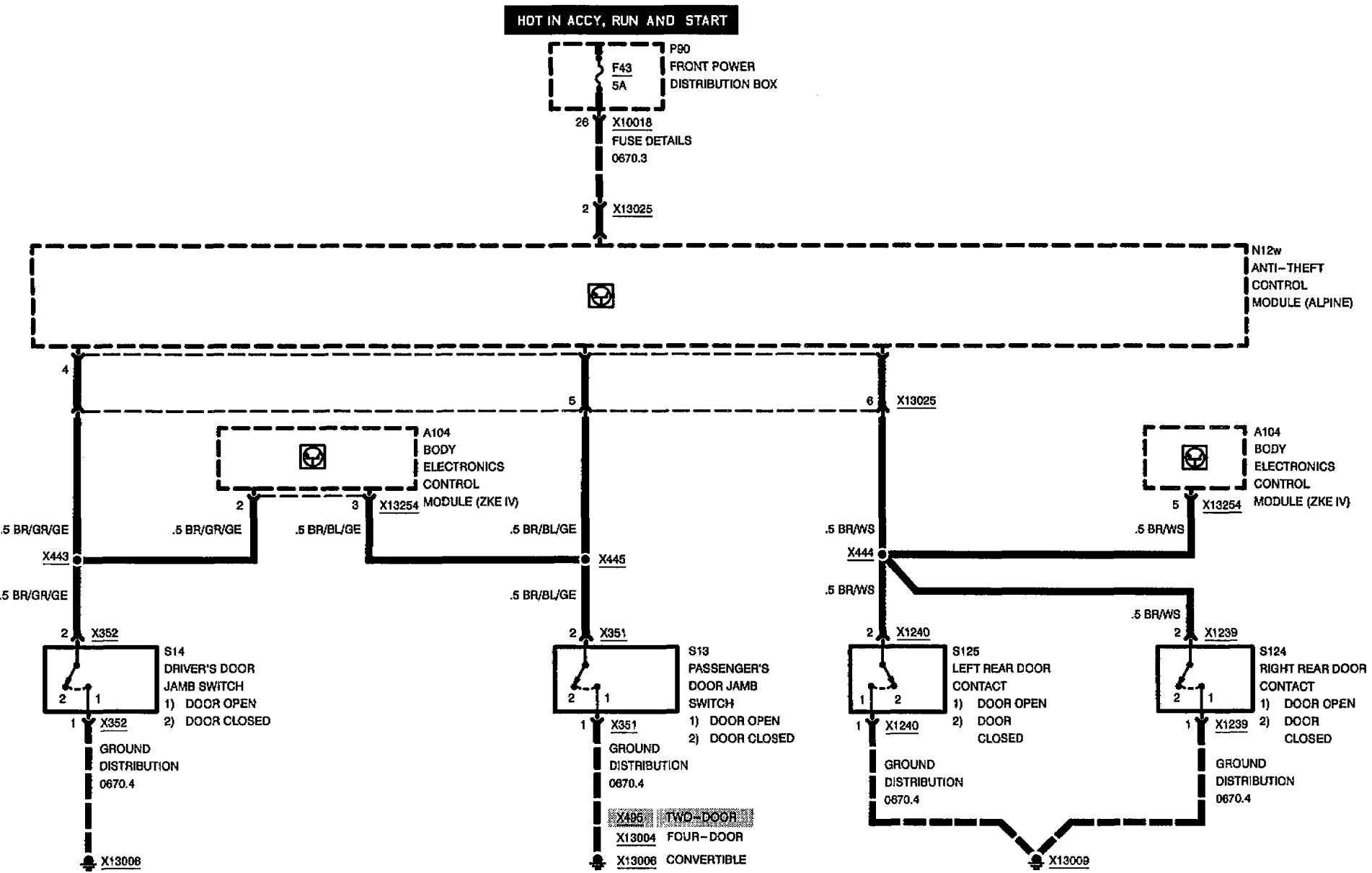
## ANTI-THEFT SYSTEM (ALPINE)

### FRONT AND REAR DOOR JAMB SWITCHES

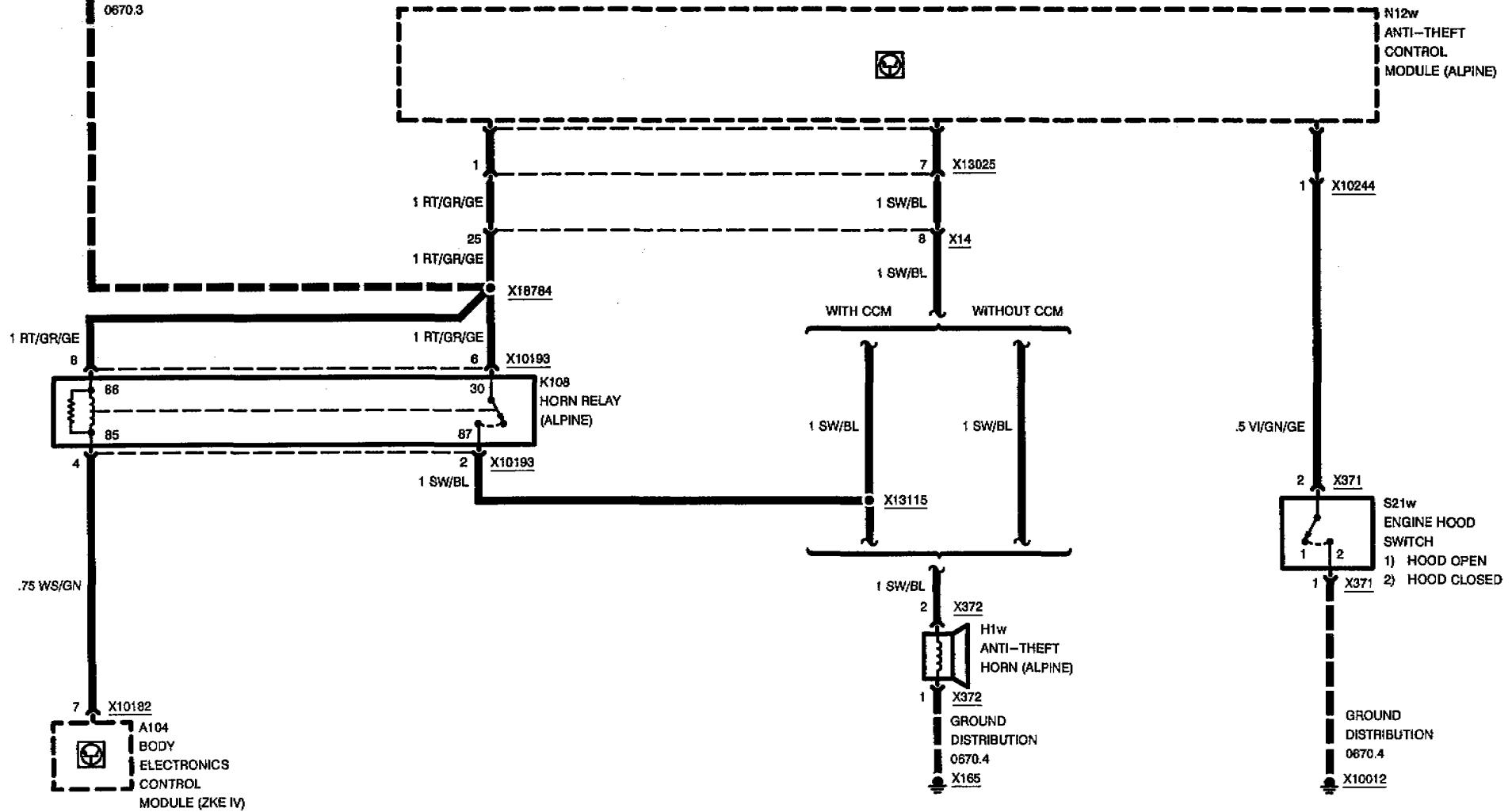
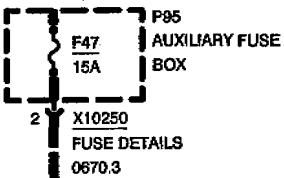
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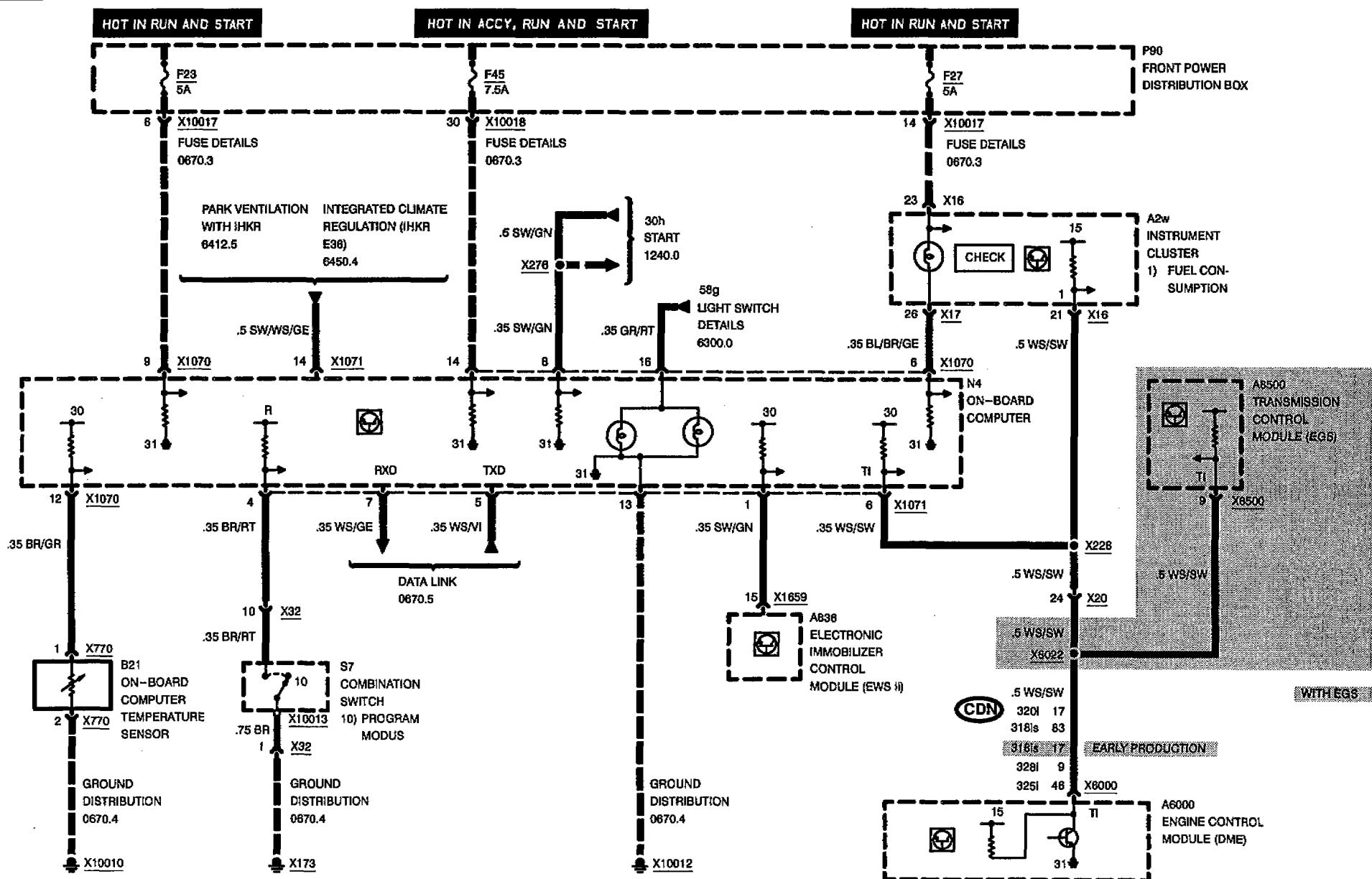


HOT AT ALL TIMES



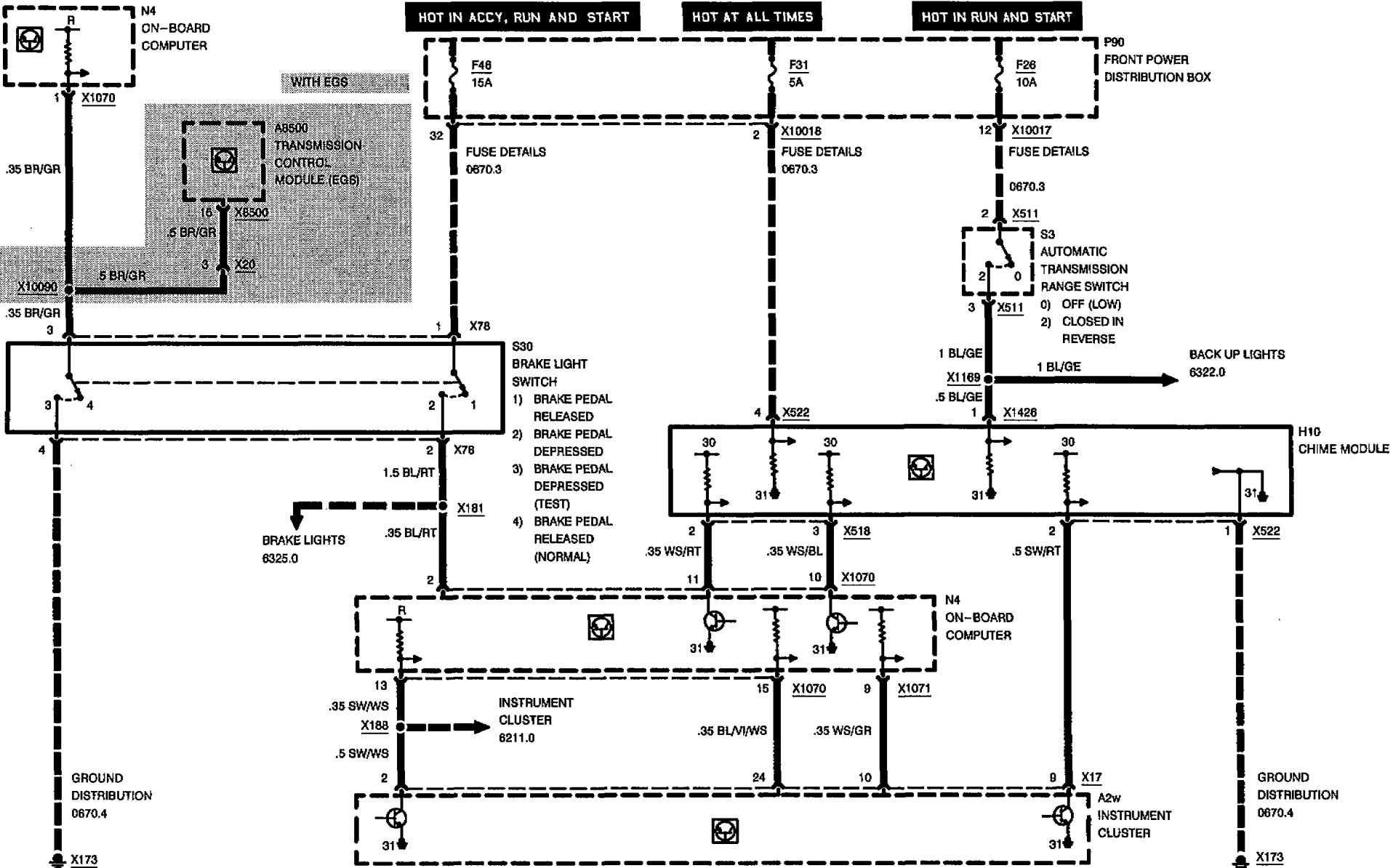


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# BMW ON-BOARD COMPUTER (BC V)

## 3 CHIME, BRAKE LIGHT SWITCH





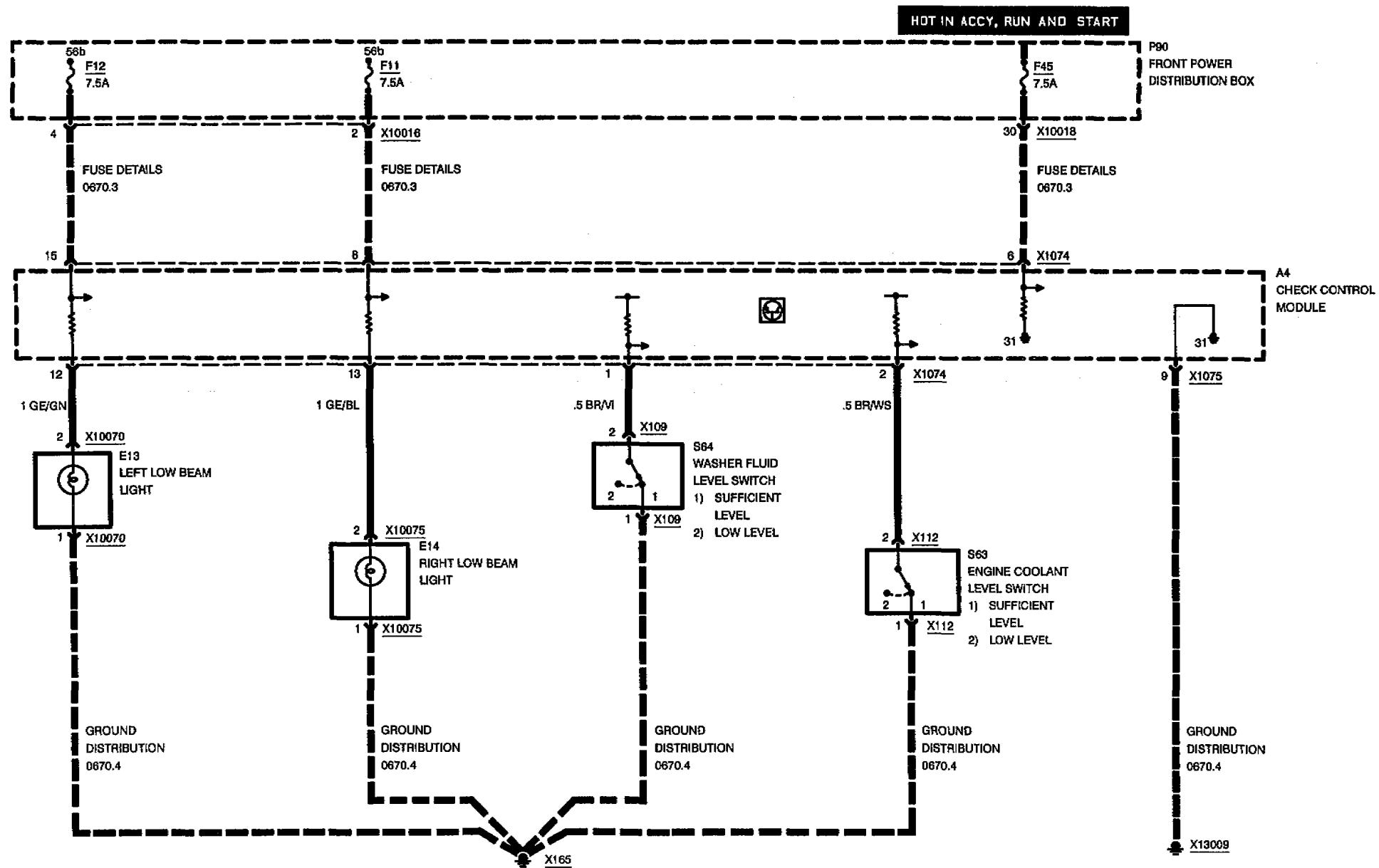
# ON-BOARD COMPUTER (BC V)

## CHECK CONTROL

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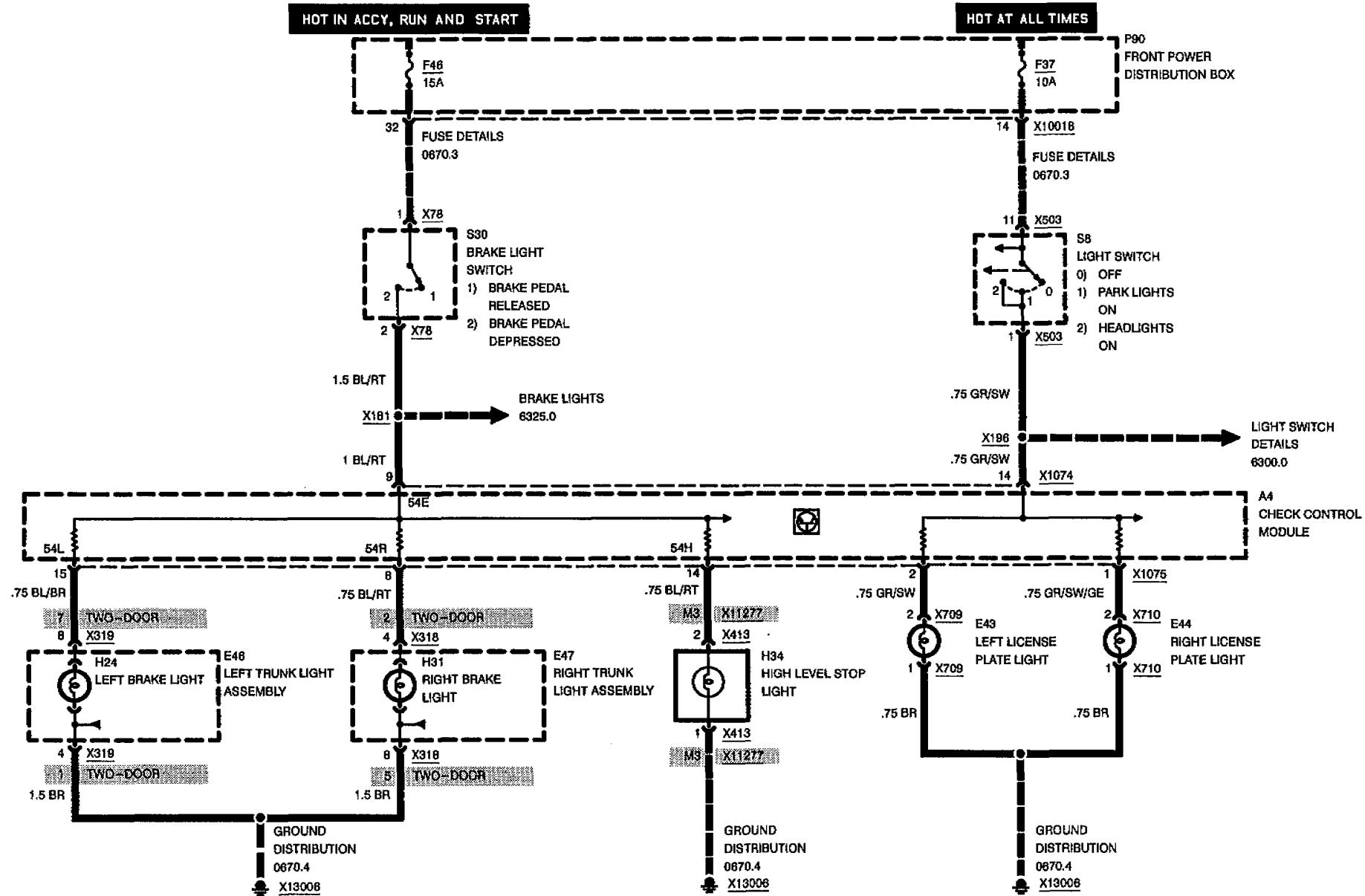




## ON-BOARD COMPUTER (BC V) CHECK CONTROL

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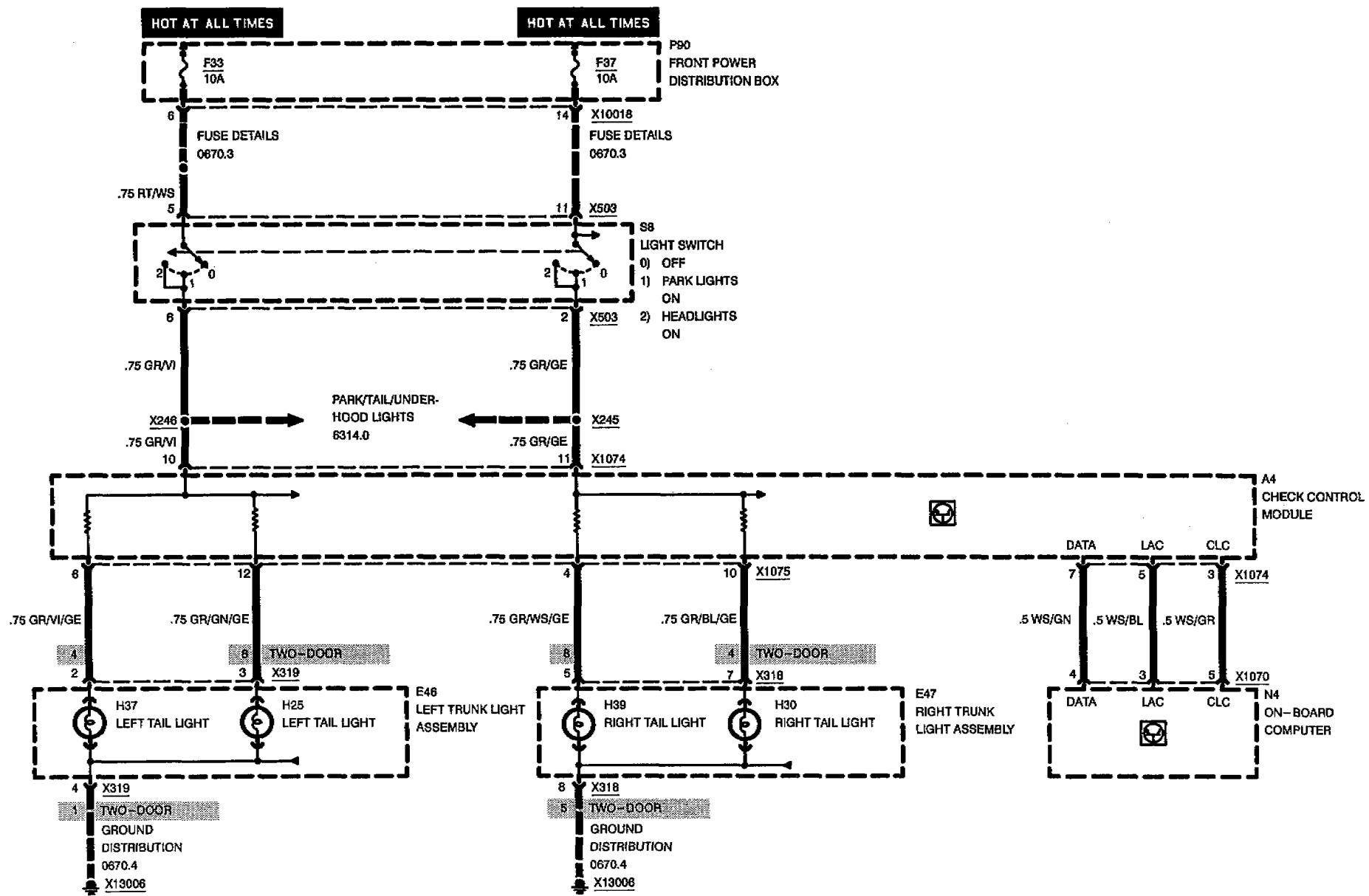


# ON-BOARD COMPUTER (BC V)

## CHECK CONTROL

04/97

6581.2-04



1996



7000.0

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

04/97

7000.0-1

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 (325l) .....	18-3

1996



## COMPONENT LOCATION CHART

04/97

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

7000.0-2

1996



## COMPONENT LOCATION CHART

04/97

7000.0-3

1996

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

04/97

7000.0-4

1996

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

04/97

7000-05

1996

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

04/97

7000-0-6

1996

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

04/97

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

7000.0-8

1996



## COMPONENT LOCATION CHART

04/97

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		

7000.0-9

1996



## COMPONENT LOCATION CHART

04/97

7000-0-10

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

1996



## 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

04/97

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

7000.0-12

1996



## COMPONENT LOCATION CHART

04/97

7000.0-13

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	

1996



## COMPONENT LOCATION CHART

04/97

- 7000-0-14 -

1996

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

04/97

7000-0-15

1996

COMP.	DESCRIPTION	LOCATION	
S128y	LH REAR DOOR (CONSOLE) POWER WINDOW SWITCH .....	center console	7100.0 8500.0
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

04/97

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

7000.0-16

1996



## COMPONENT LOCATION CHART

04/97

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	

7000.0-17

1996



## COMPONENT LOCATION CHART

04/97

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		

1996



## COMPONENT LOCATION CHART

04/97

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	

7000.0-19

1996



## COMPONENT LOCATION CHART

04/97

- 7000.0-20

1998

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

04/97

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	

7000.0-21

1996



## COMPONENT LOCATION CHART

04/97

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

7000.0-22

1996



## COMPONENT LOCATION CHART

04/97

7000.0-23

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

1996



## COMPONENT LOCATION CHART

04/97

- 7000.0-24

1996

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

04/97

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	

7000.0-25

1996



## COMPONENT LOCATION CHART

04/97

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

1996



## COMPONENT LOCATION CHART

04/97

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		

7000.0-27

1996



## COMPONENT LOCATION CHART

04/97

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	

7000.0-28

1996



## COMPONENT LOCATION CHART

04/97

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	

7000.0-29

1996



## COMPONENT LOCATION CHART

04/97

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

1996



## COMPONENT LOCATION CHART

04/97

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	

7000.0-31

1996



## COMPONENT LOCATION CHART

04/97

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	

— 7000.0-32 —

1996



## COMPONENT LOCATION CHART

04/97

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

7000.0-33

1996



## COMPONENT LOCATION CHART

04/97

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	

7000-0-34

1996



## COMPONENT LOCATION CHART

04/97

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		

7000.0-35

1996



## COMPONENT LOCATION CHART

04/97

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)		

1996



## COMPONENT LOCATION CHART

04/97

7000.0-37

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	

1996

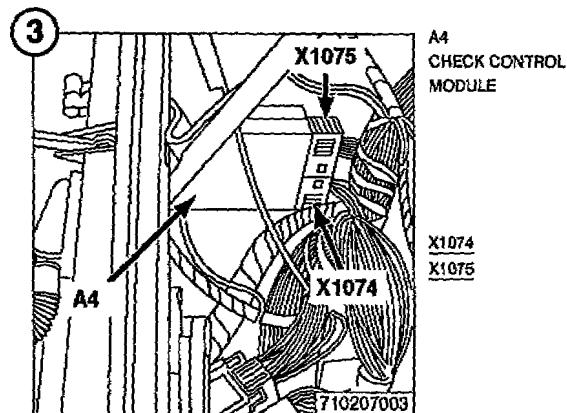
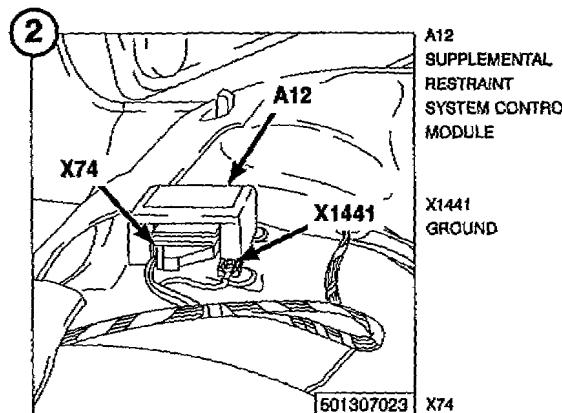
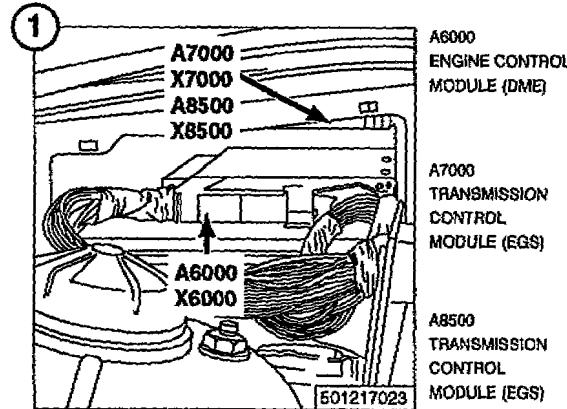
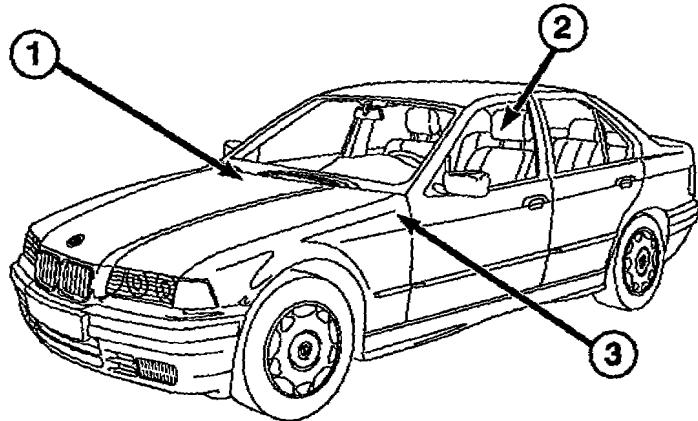
## COMPONENT LOCATION VIEWS

### ELECTRICAL CONTROL MODULE LOCATIONS

04/97

7100-0-00

1996





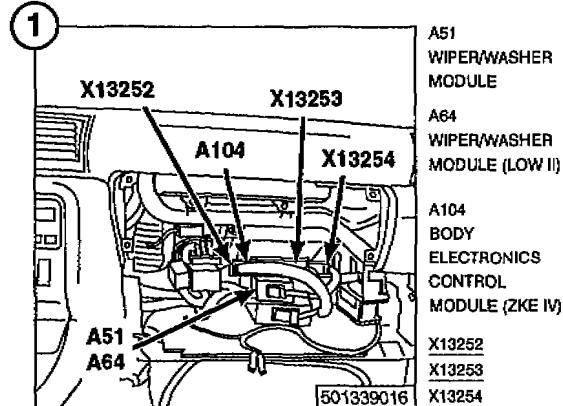
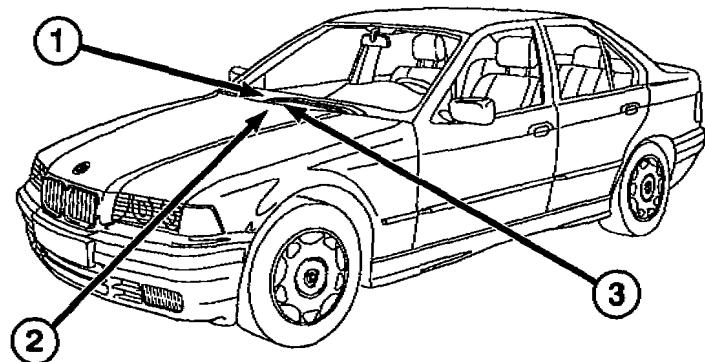
## COMPONENT LOCATION VIEWS

### ELECTRICAL CONTROL MODULE LOCATIONS

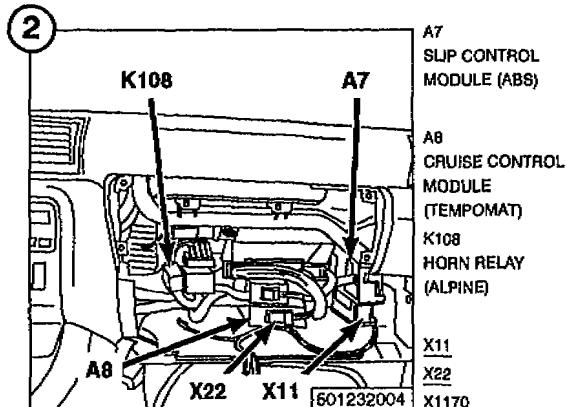
04/97

— 7100 0-01 —

1996



A51  
WIPER/WASHER  
MODULE  
  
A64  
WIPER/WASHER  
MODULE (LOW II)  
  
A104  
BODY  
ELECTRONICS  
CONTROL  
MODULE (ZKE IV)  
  
X13252  
X13253  
X13254  
501339016



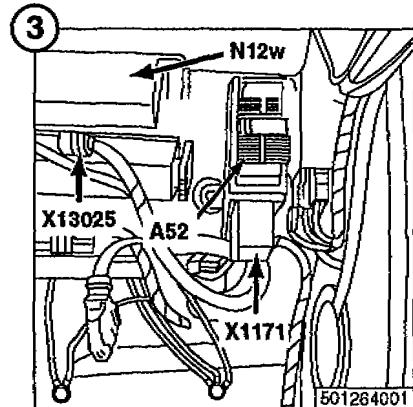
A7  
SLIP CONTROL  
MODULE (ABS)

A8  
CRUISE CONTROL  
MODULE  
(TEMPOMAT)

K108  
HORN RELAY  
(ALPINE)

X11  
X22  
X1170

601232004



A52  
SLIP CONTROL  
MODULE  
(ABS/ASC)

N12w  
ANTI-THEFT  
CONTROL  
MODULE (ALPINE)

X1171  
X13025  
501264001



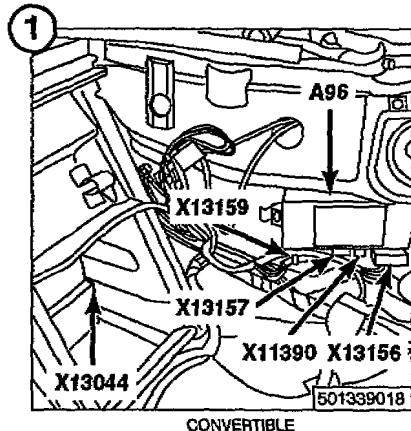
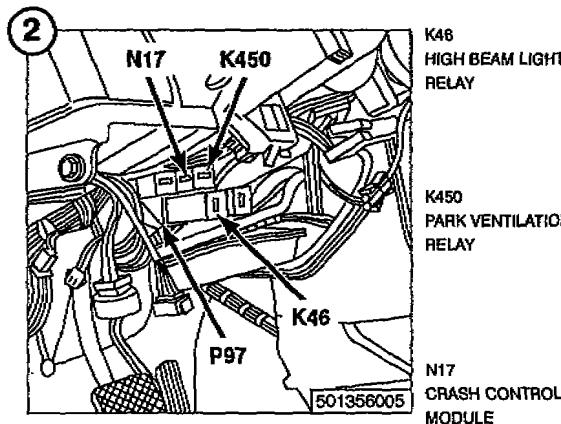
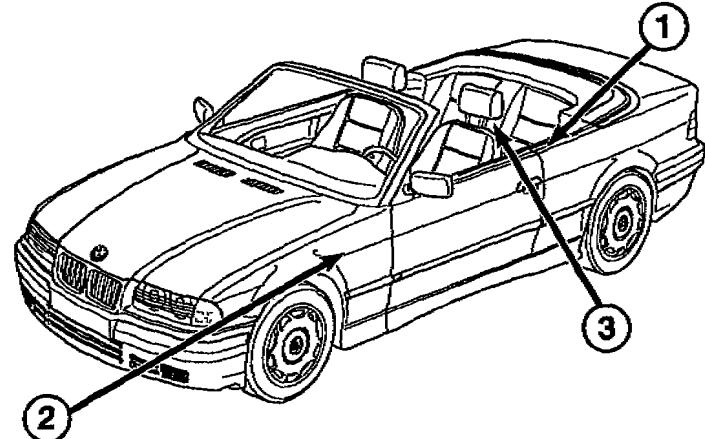
## COMPONENT LOCATION VIEWS

### ELECTRICAL CONTROL MODULE LOCATIONS

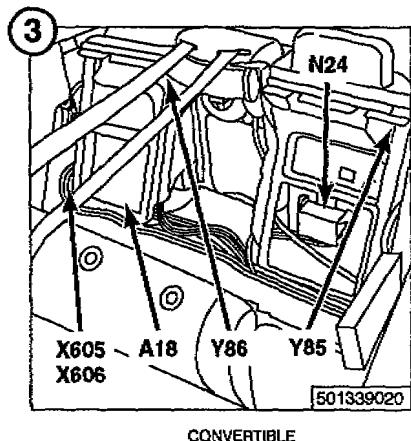
04/97

7100 0-02

1996



A96  
CONVERTIBLE TOP CONTROL MODULE  
X13159  
X13044  
X13156  
X13157  
X13159



A18  
HIFI AMPLIFIER  
Y86  
RH ROLLOVER PROTECTION ACTUATOR  
N24  
ROLLOVER SENSOR  
X605  
X606

A18  
HIFI AMPLIFIER  
Y86  
RH ROLLOVER PROTECTION ACTUATOR  
N24  
ROLLOVER SENSOR  
X605  
X606  
Y85  
LH ROLLOVER PROTECTION ACTUATOR  
501339020  
CONVERTIBLE



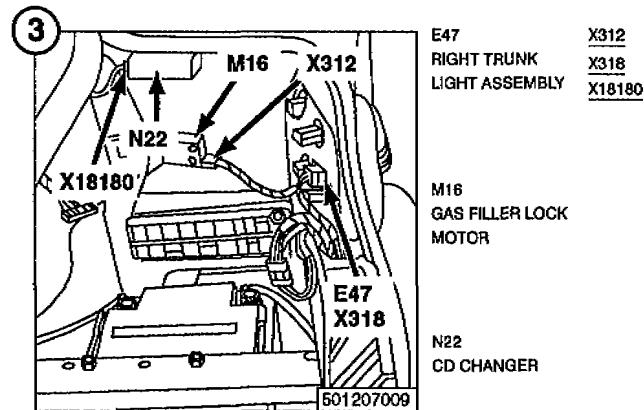
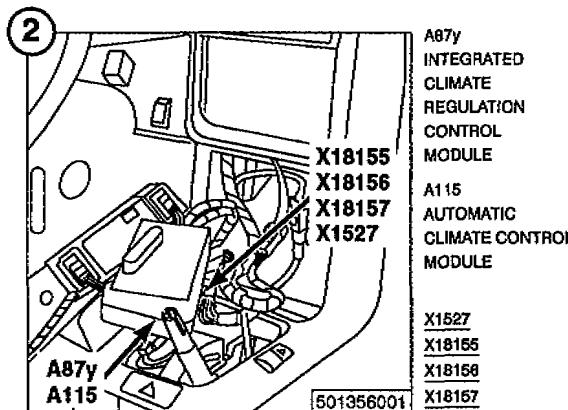
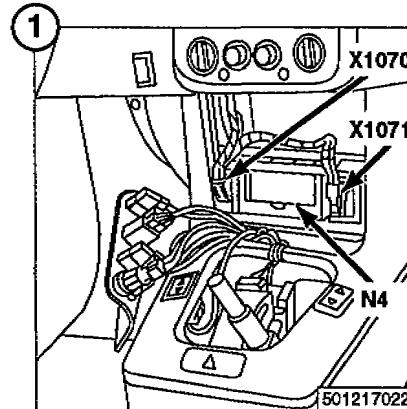
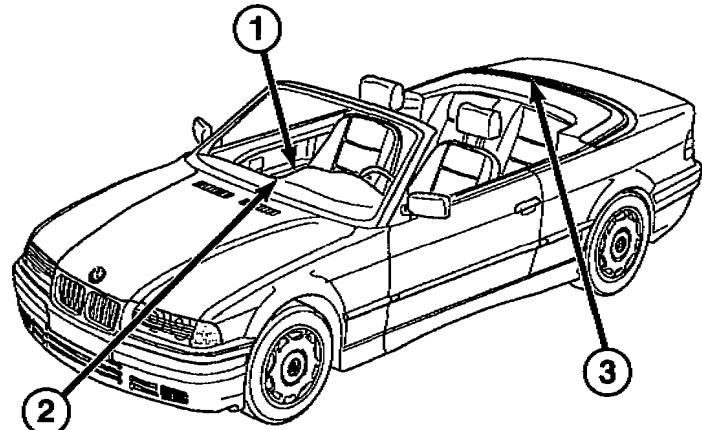
## COMPONENT LOCATION VIEWS

### ELECTRICAL CONTROL MODULE LOCATIONS

04/97

7100.0-03

1996





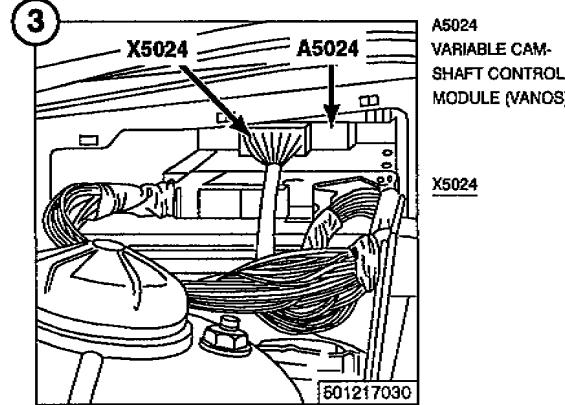
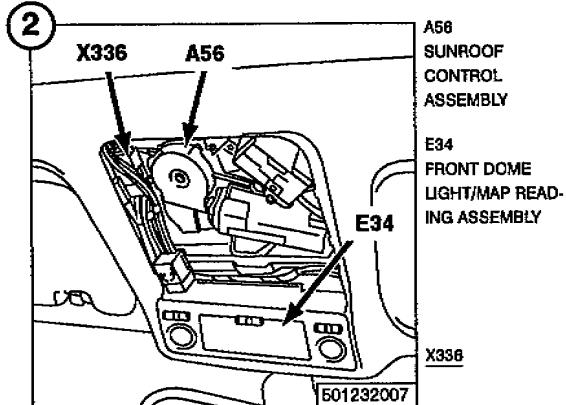
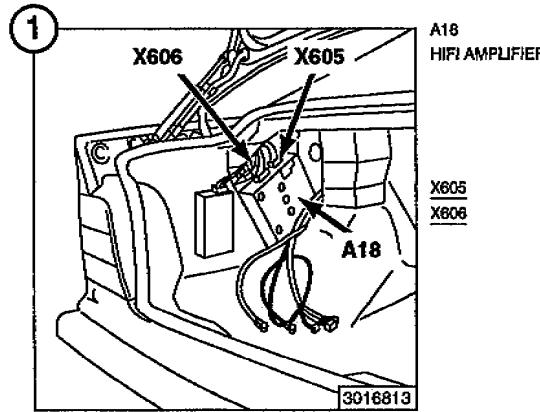
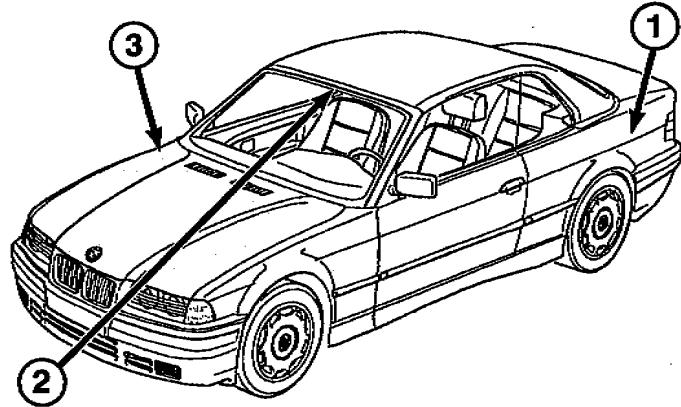
## COMPONENT LOCATION VIEWS

### ELECTRICAL CONTROL MODULE LOCATIONS

04/97

7100.0-04

1996



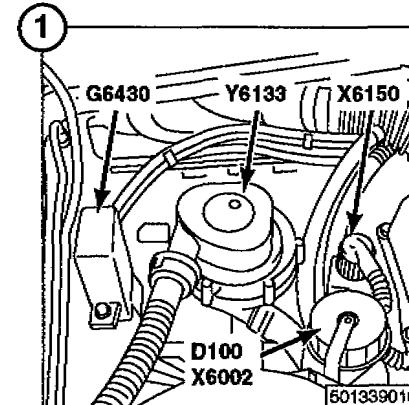
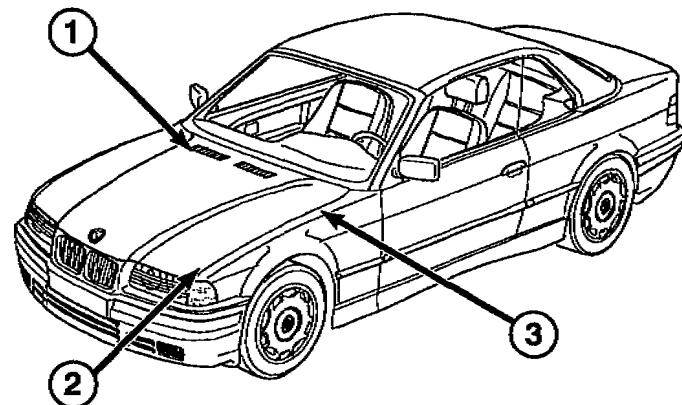
M3

CDN

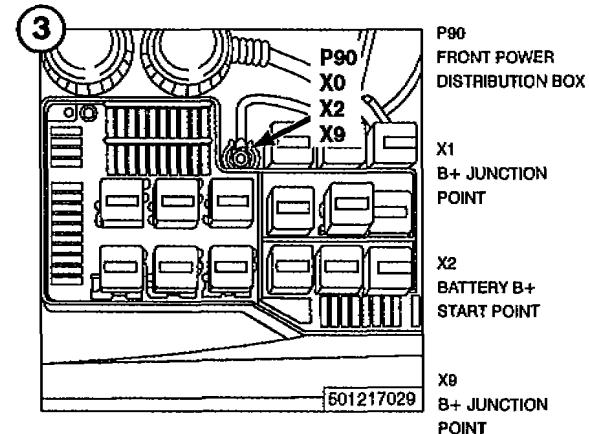
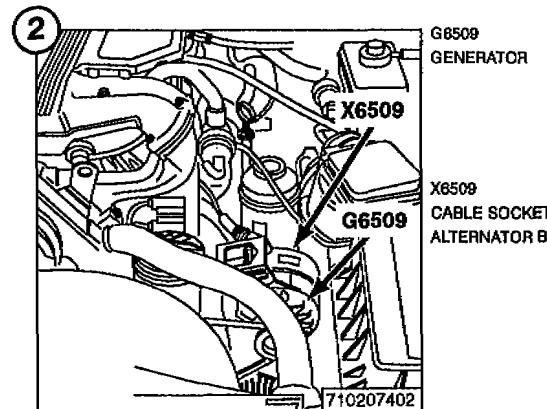


## COMPONENT LOCATION VIEWS

**B(+)**



X6002  
X6150





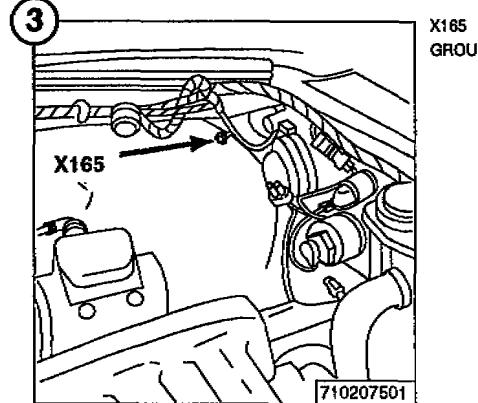
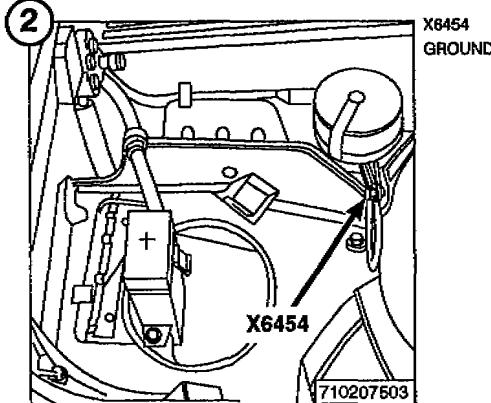
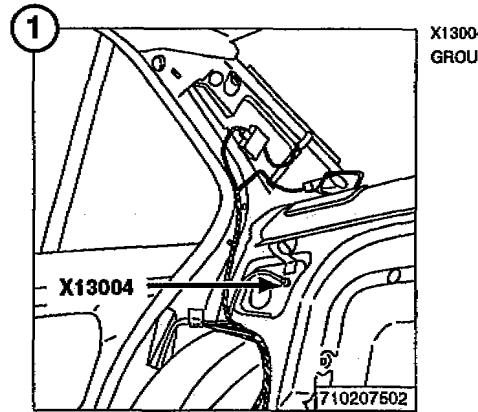
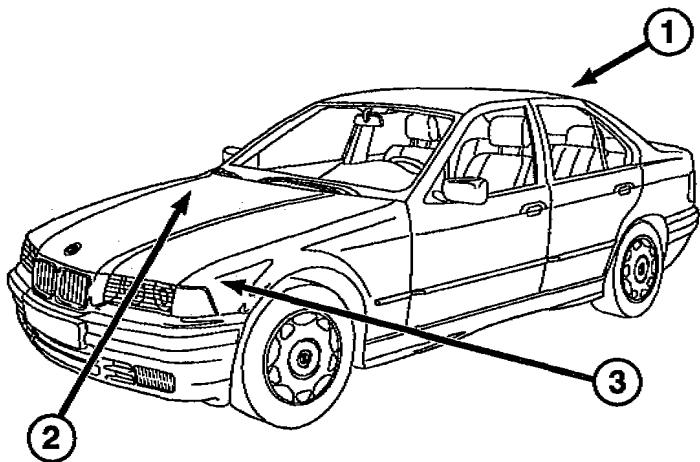
## COMPONENT LOCATION VIEWS

04/97

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1996

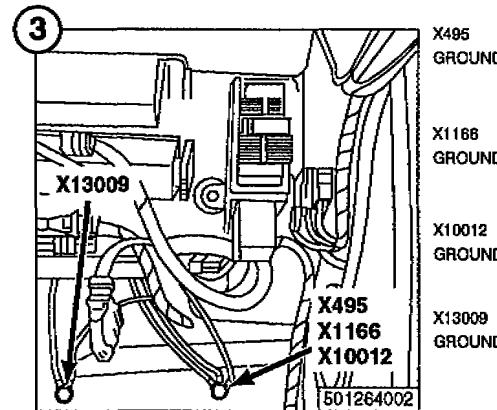
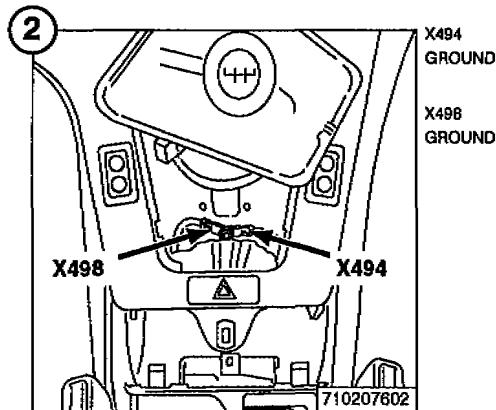
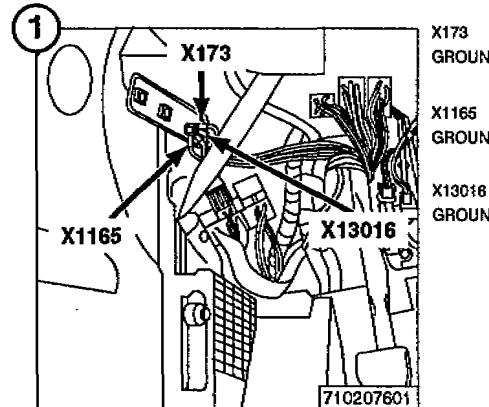
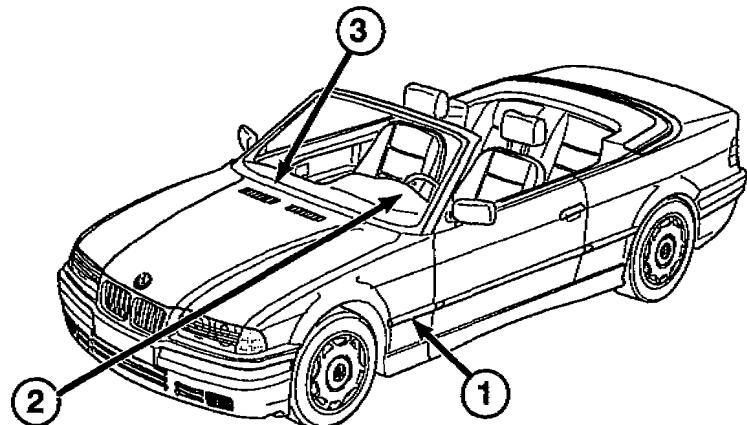
B(-)





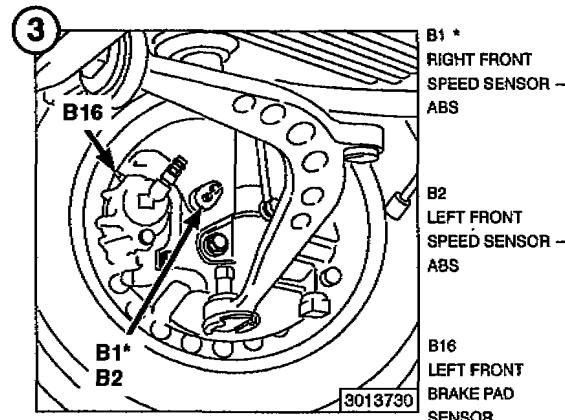
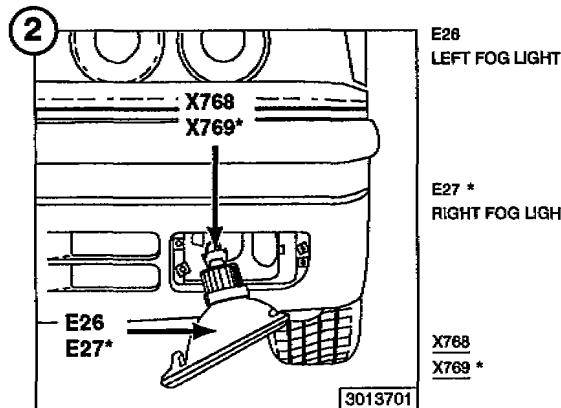
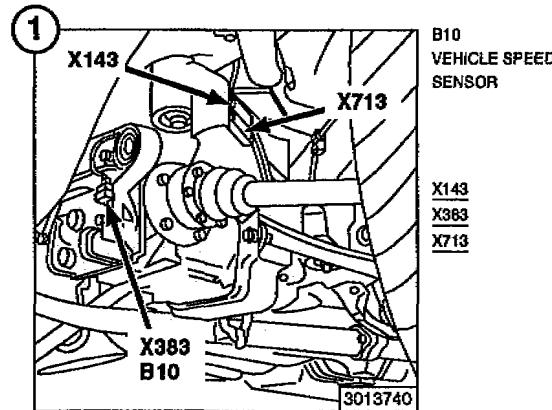
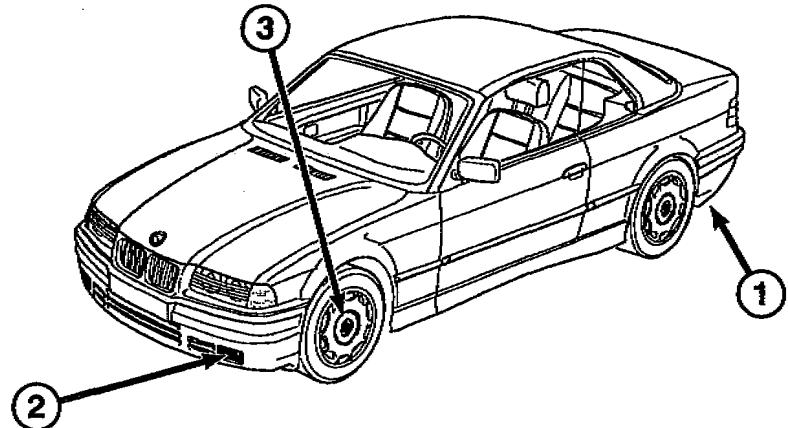
## COMPONENT LOCATION VIEWS

04/97

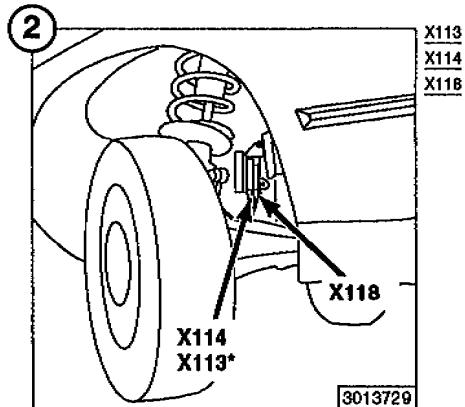
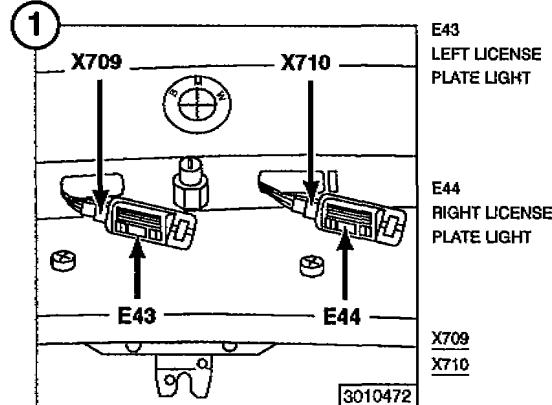
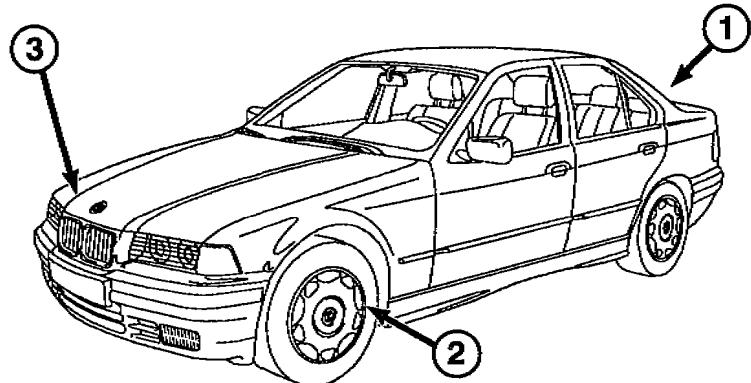
**B(-)**

7100.0-07

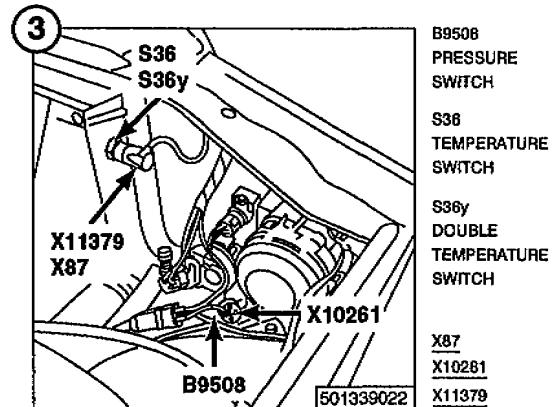
1996

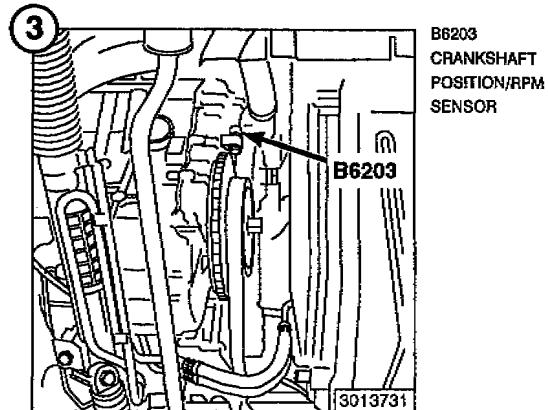
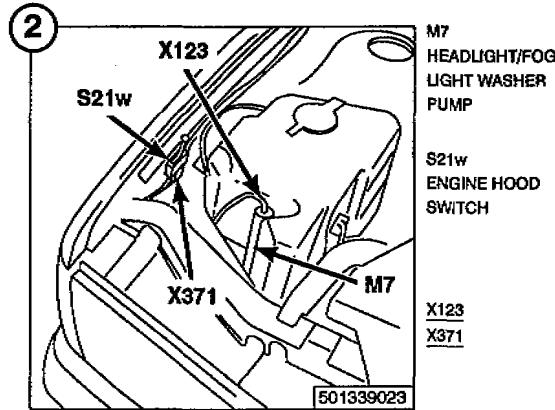
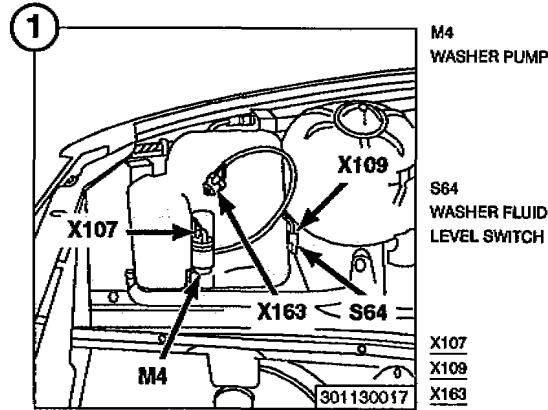
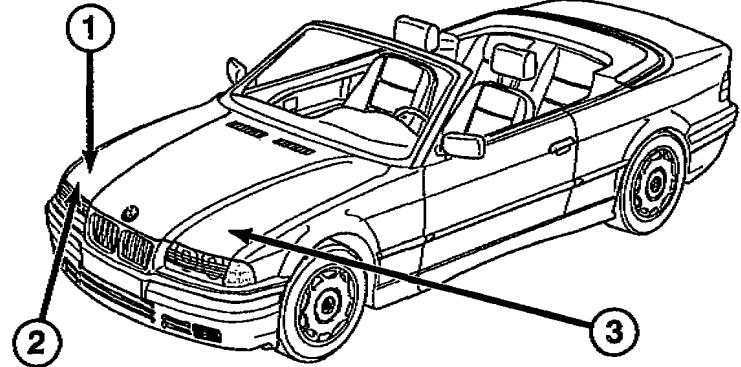


## COMPONENT LOCATION VIEWS



\*RH similar





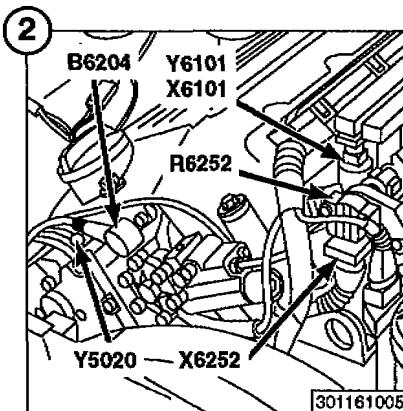
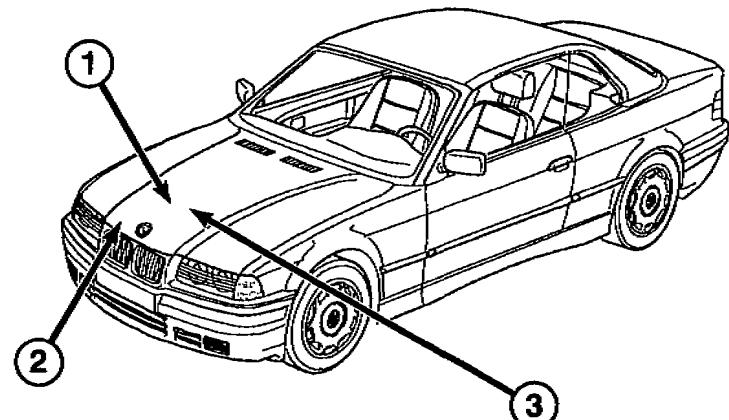


## COMPONENT LOCATION VIEWS

04/97

7100.0-11

1996



M3

B6204  
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)

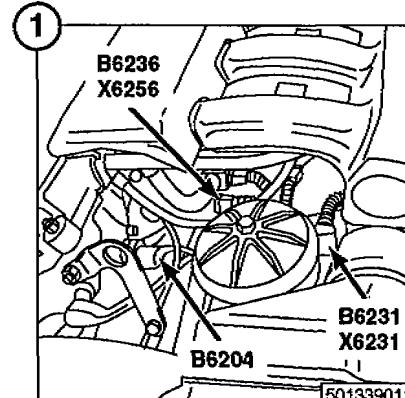
Y6101  
CYL. 1 FUEL INJECTION VALVE

R6252  
THROTTLE POSITION SENSOR

X6101  
X6252

Y5020  
VARIABLE CAM-SHAFT CONTROL VALVE 1

301161005



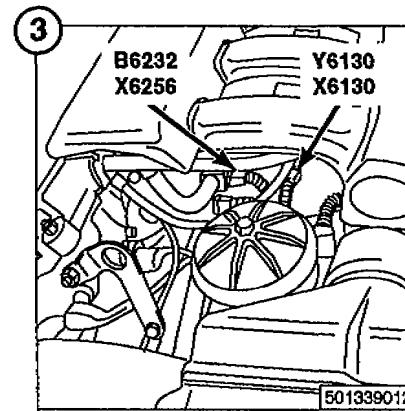
325i

B6204  
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)

B6231  
OIL PRESSURE SWITCH

B6236  
ENGINE COOLANT TEMPERATURE SENSOR

X6231  
X6256



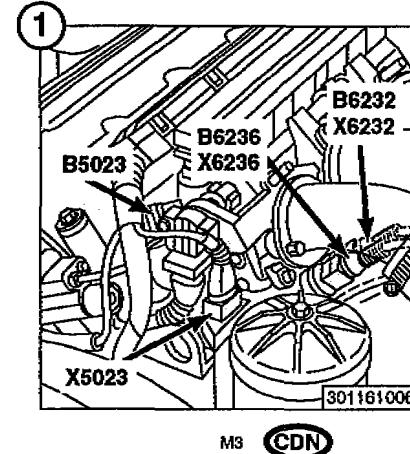
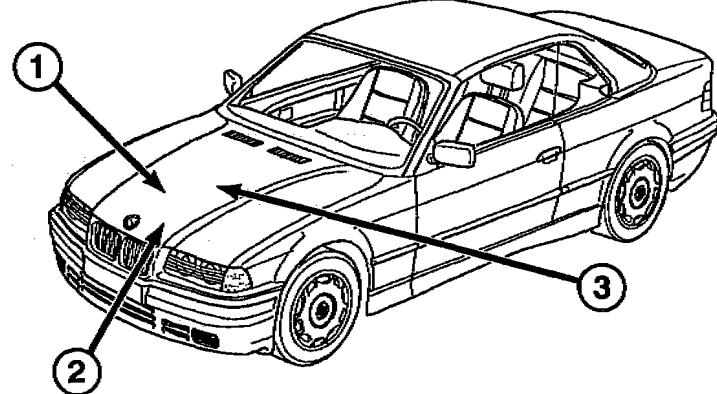
325i

B6232  
ENGINE COOLANT TEMPERATURE SENSOR

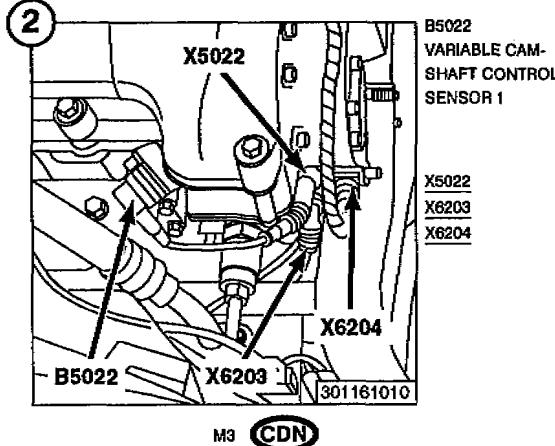
Y6130  
IDLE SPEED CONTROL VALVE

X6456  
GROUND

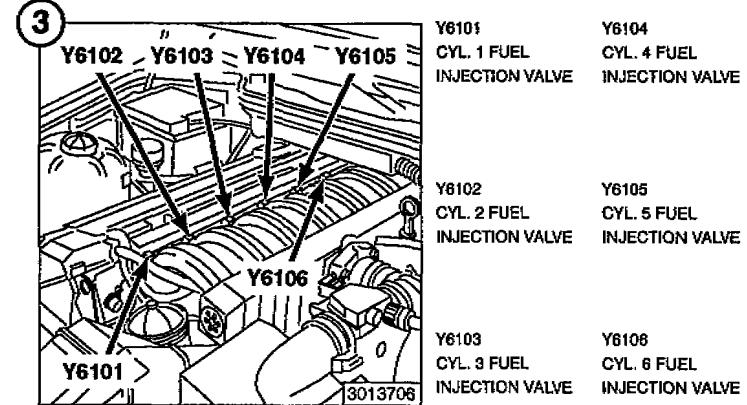
X6130  
X6256



M3



M3



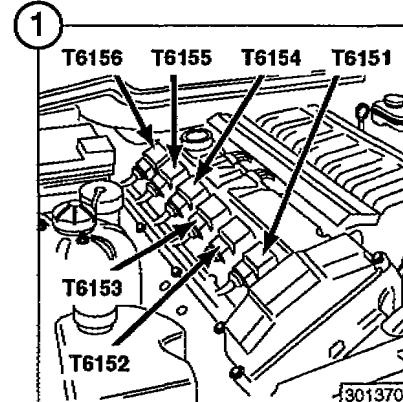
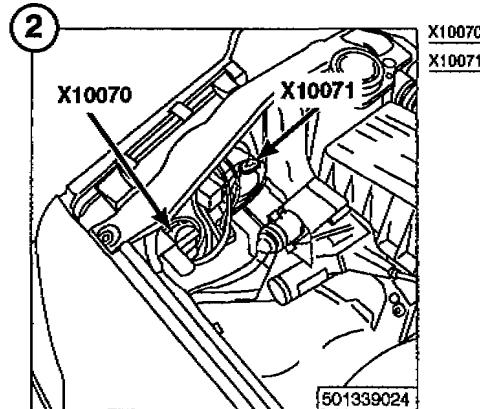
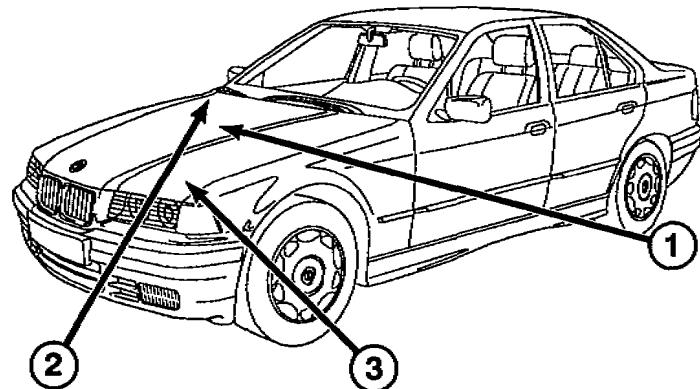


## COMPONENT LOCATION VIEWS

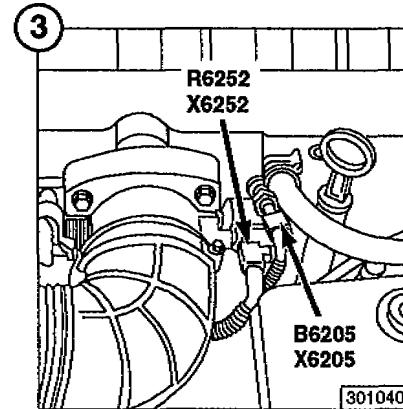
04/97

7100-0-13

1996

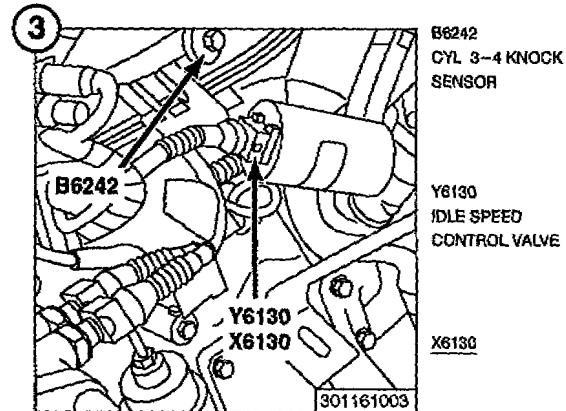
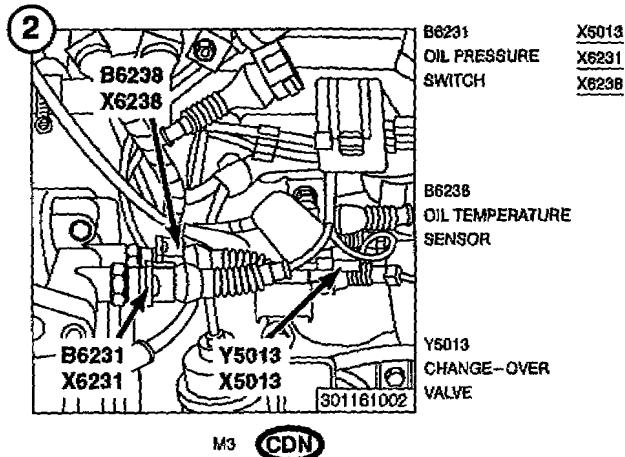
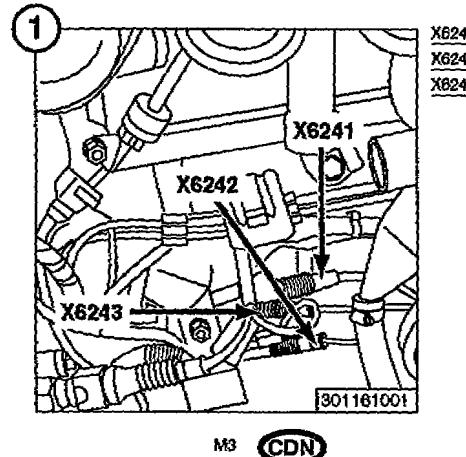
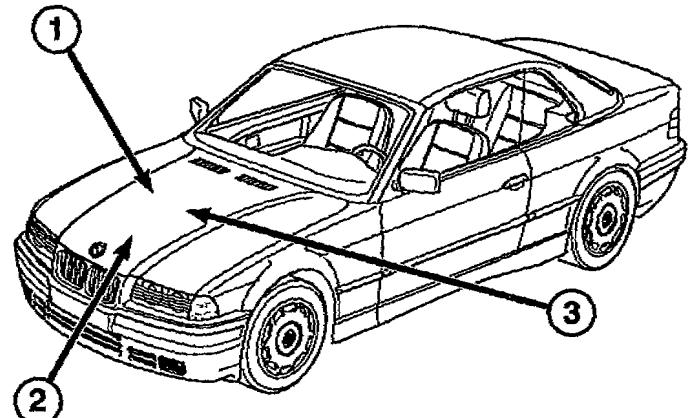


T6151	T6154
CYL. 1 IGNITION COIL	CYL. 4 IGNITION COIL
T6152	T6155
CYL. 2 IGNITION COIL	CYL. 5 IGNITION COIL
T6153	T6156
CYL. 3 IGNITION COIL	CYL. 6 IGNITION COIL

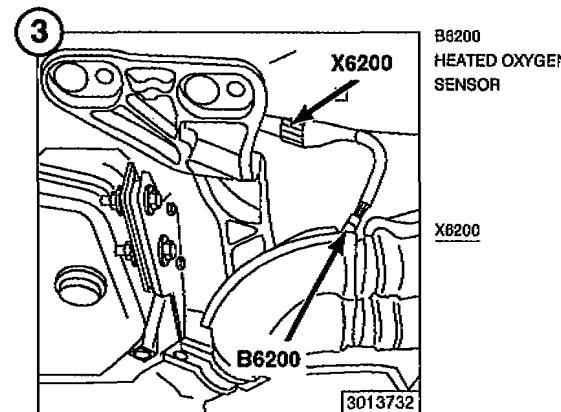
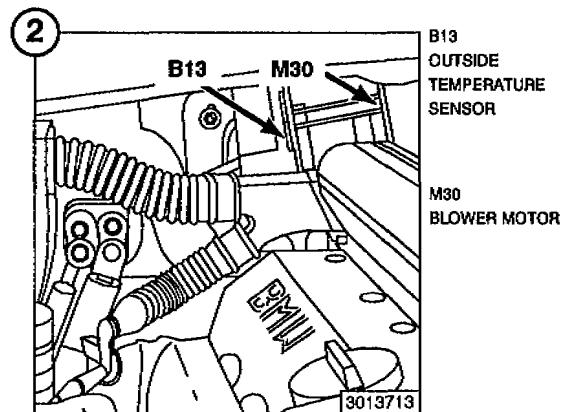
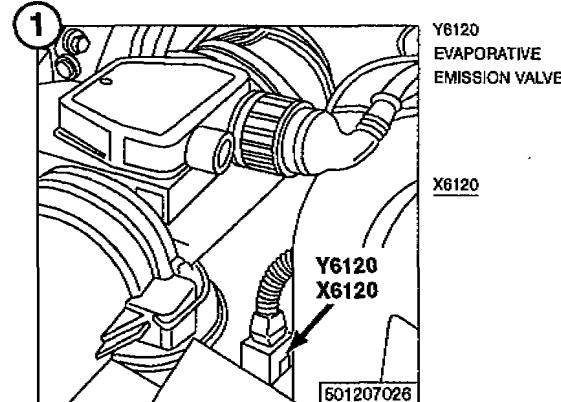
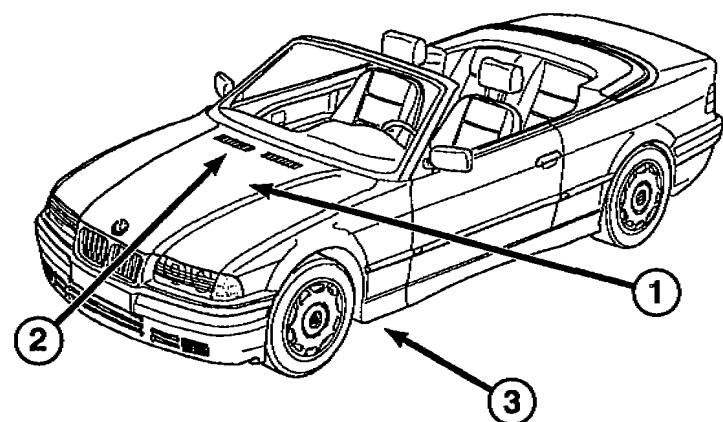


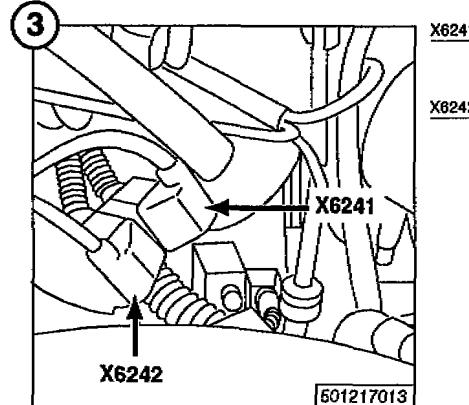
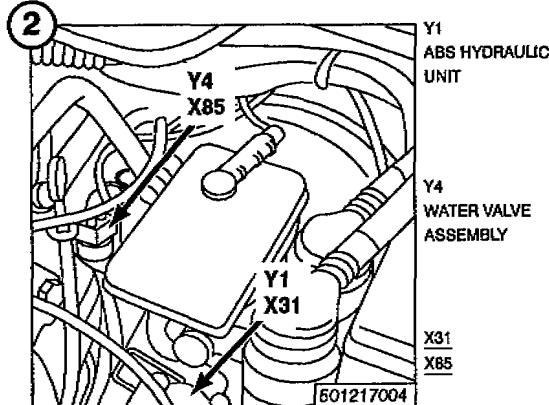
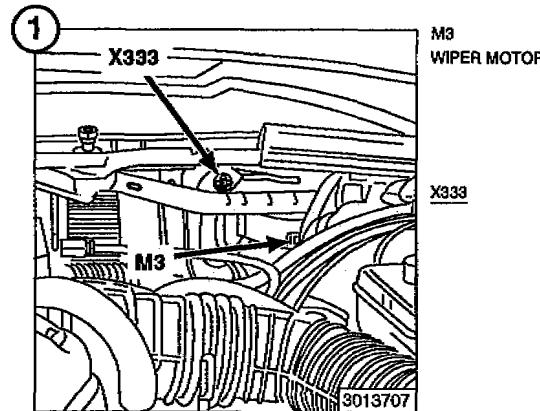
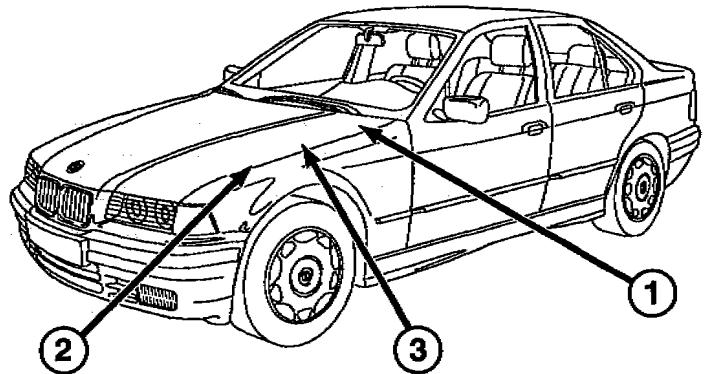
B6205	
INTAKE AIR TEMPERATURE SENSOR	
R6252	
THROTTLE POSITION SENSOR	
X6205	
X6205	

## COMPONENT LOCATION VIEWS



## COMPONENT LOCATION VIEWS





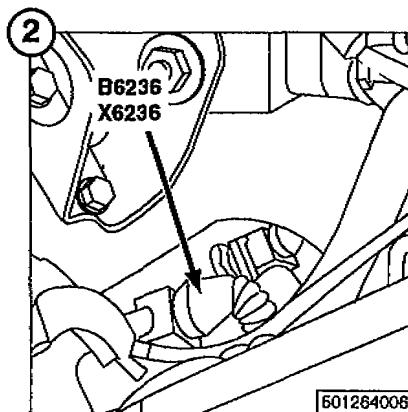
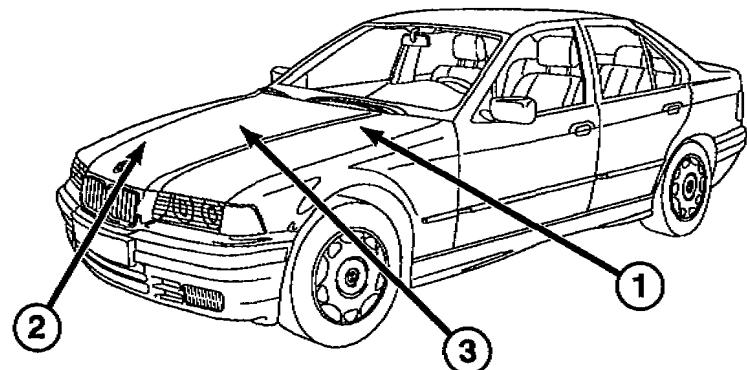


## COMPONENT LOCATION VIEWS

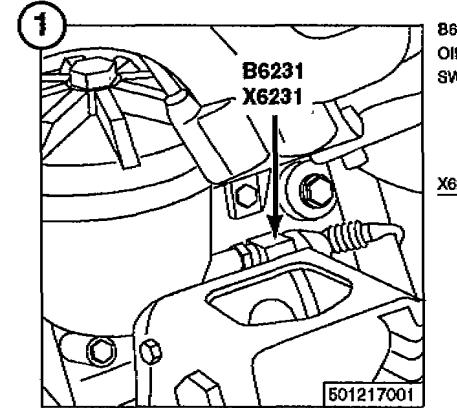
04/97

7100.0-17

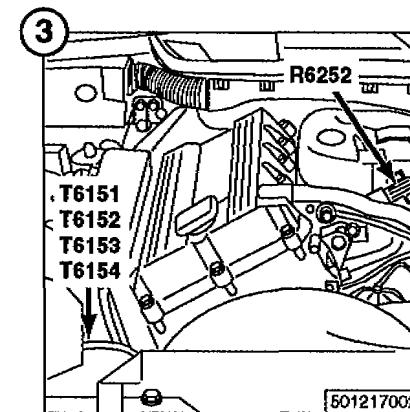
1996



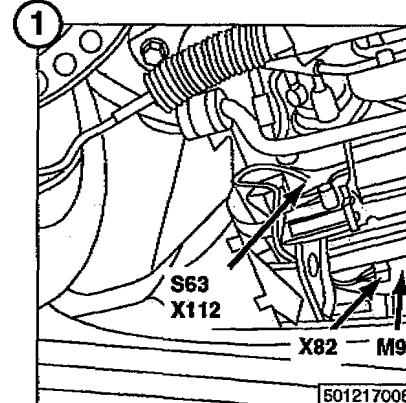
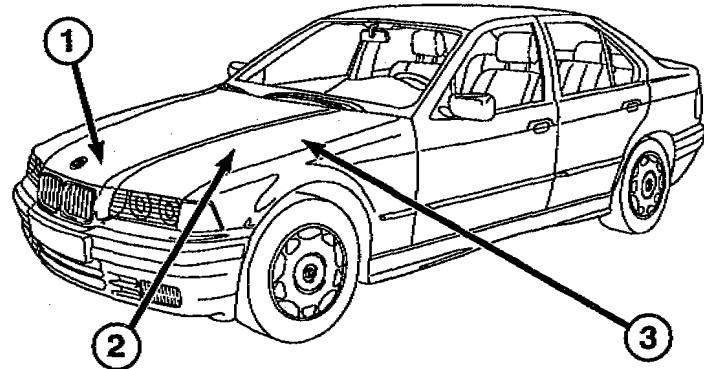
318is



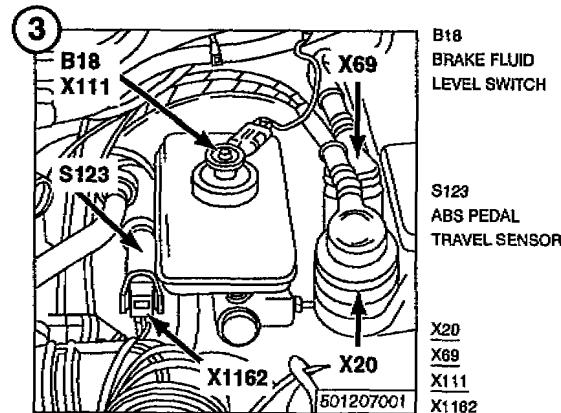
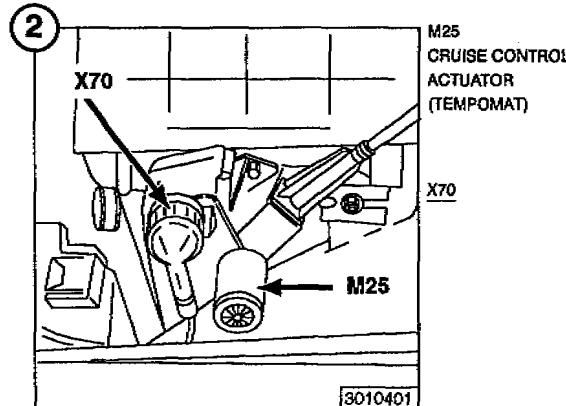
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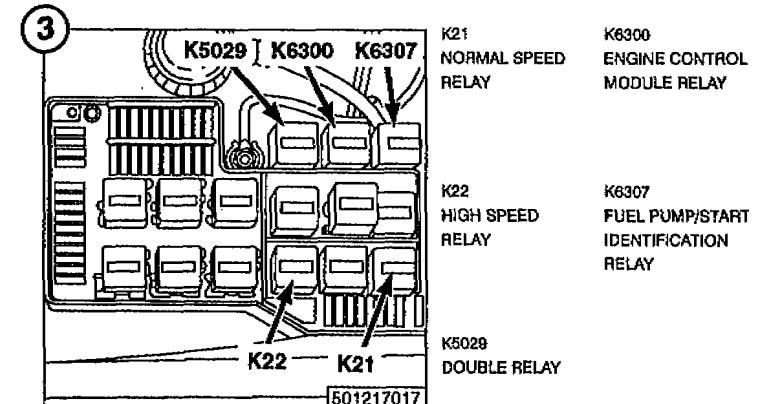
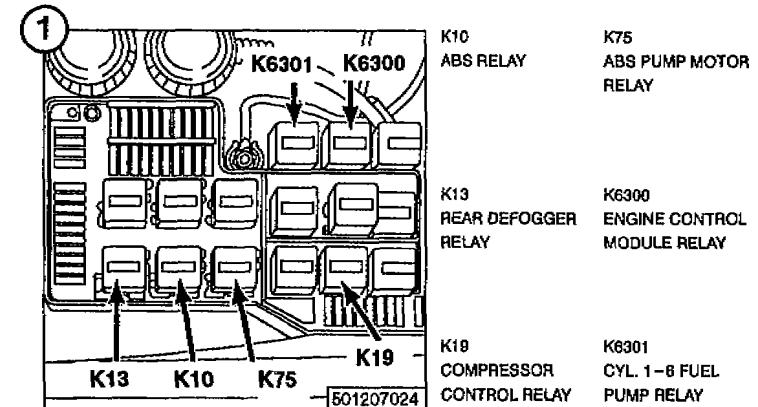
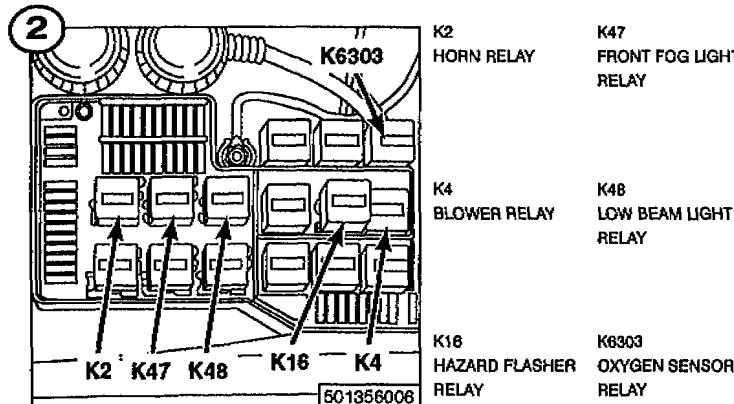
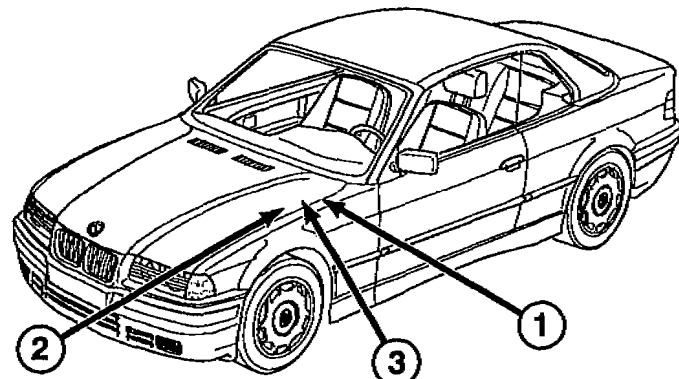
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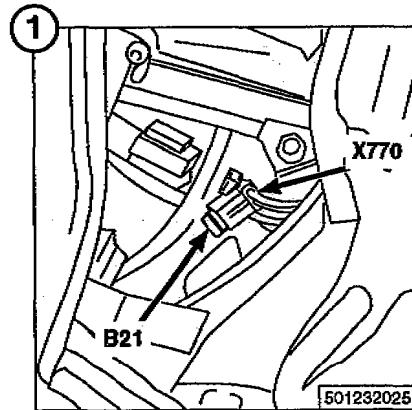
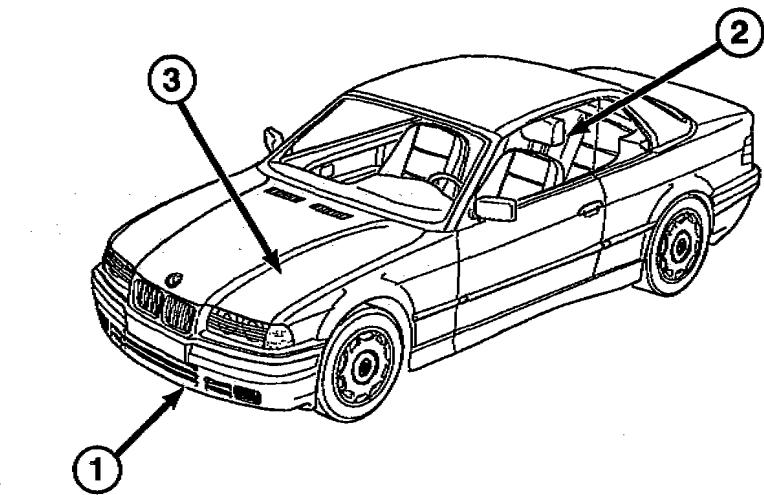


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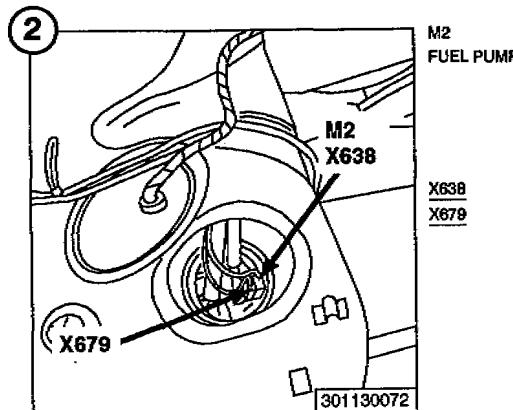
325i

**COMPONENT LOCATION VIEWS**



B21  
ON-BOARD  
COMPUTER  
TEMPERATURE  
SENSOR

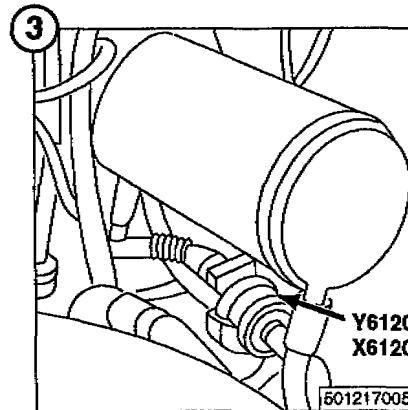
X770



M2  
FUEL PUMP

X638  
X679

301130072



Y6120  
EVAPORATIVE  
EMISSION VALVE

X6120

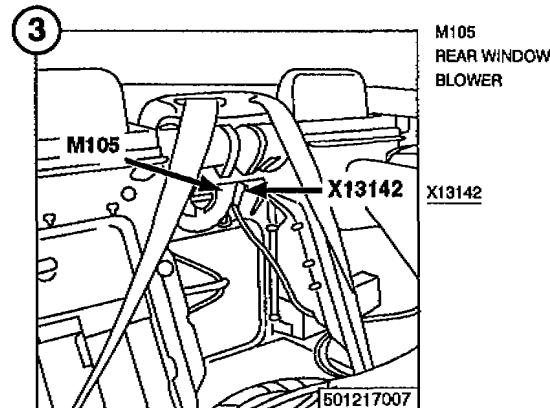
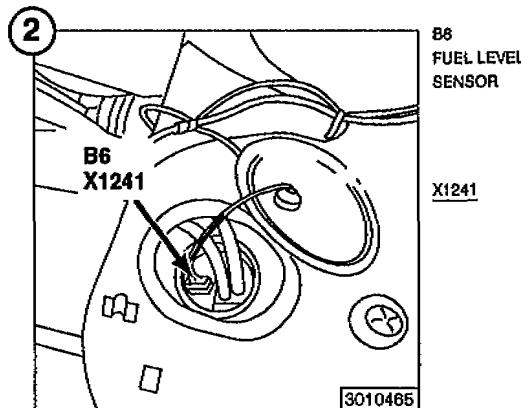
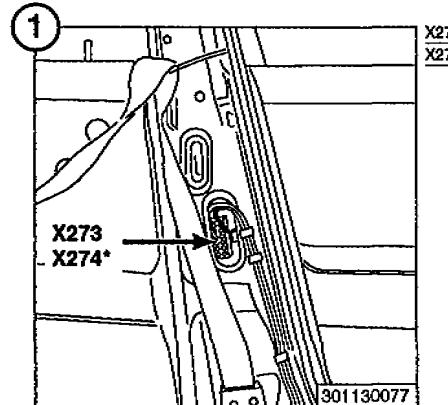
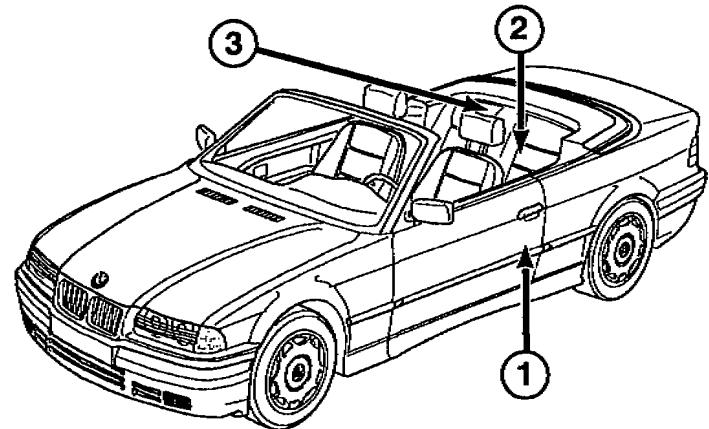
601217005

318is



## COMPONENT LOCATION VIEWS

04/97



7100.0-21

1996

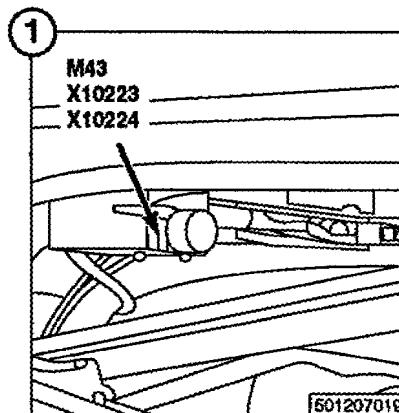
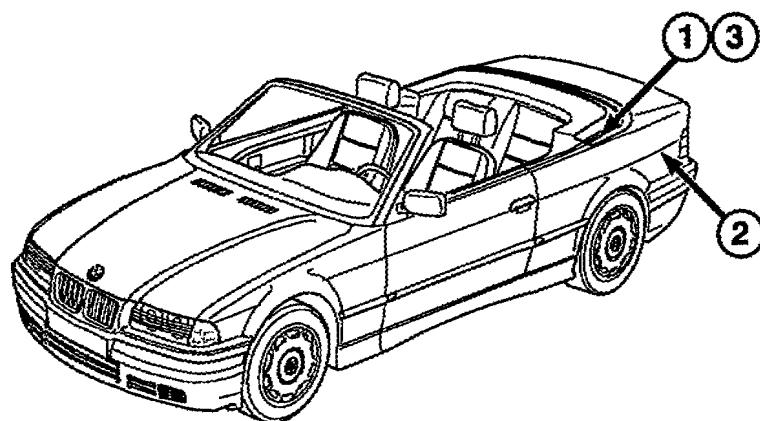


## COMPONENT LOCATION VIEWS

04/97

7100.0-22

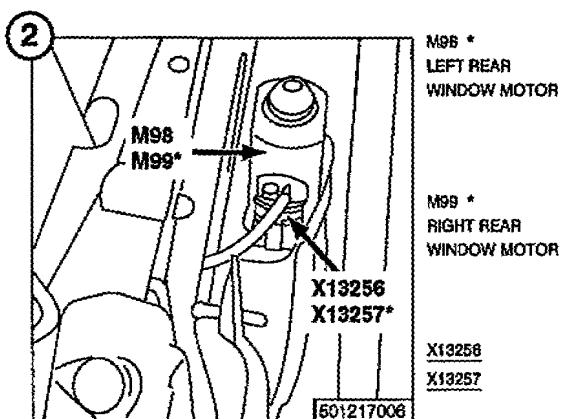
191



M43  
CONVERTIBLE TOP  
STORAGE LID  
LOCK MOTOR

X10223  
X10224

601207019

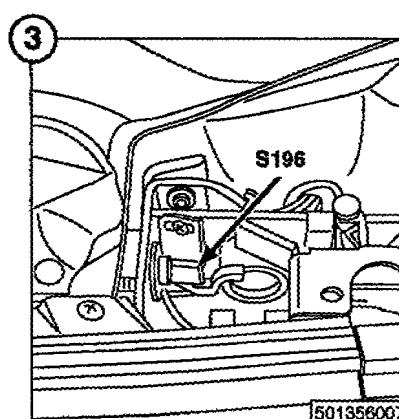


M98 \*  
LEFT REAR  
WINDOW MOTOR

M99 \*  
RIGHT REAR  
WINDOW MOTOR

X13256  
X13257\*

601217006

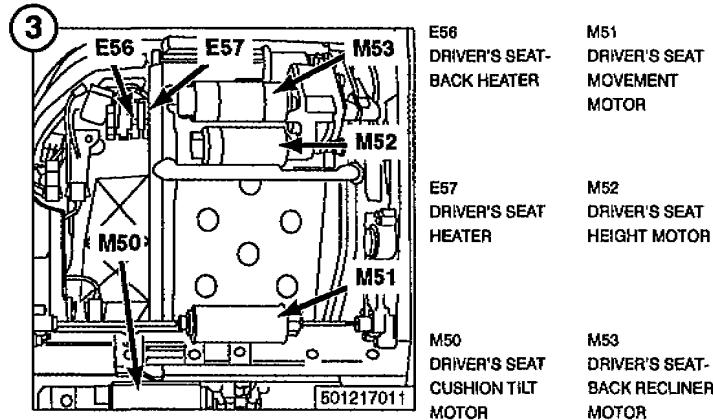
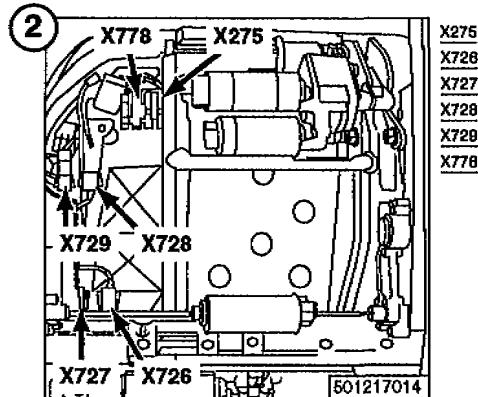
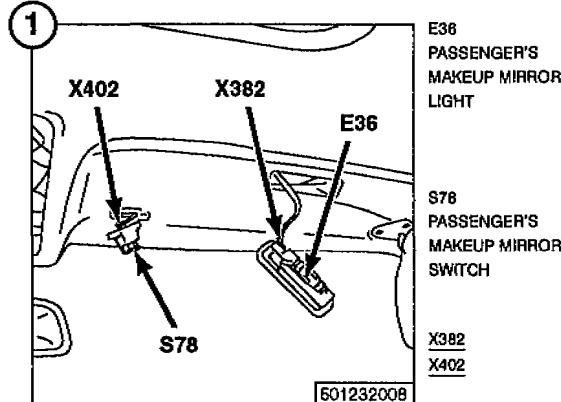
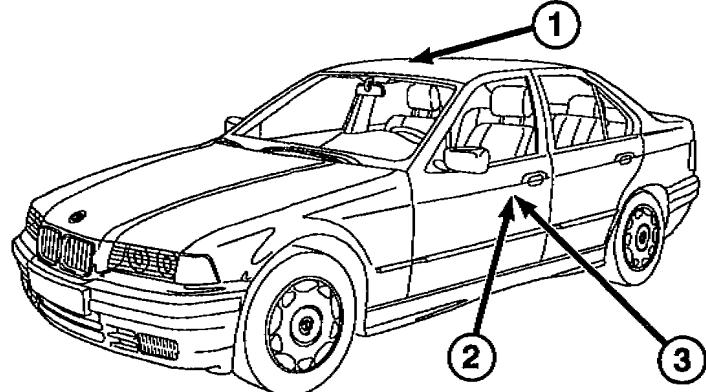


S196  
REAR WINDOW  
BLOWER MICRO  
SWITCH

501356007

\*RH similar

## COMPONENT LOCATION VIEWS

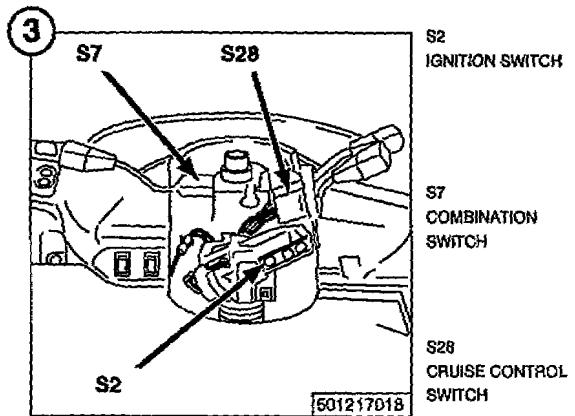
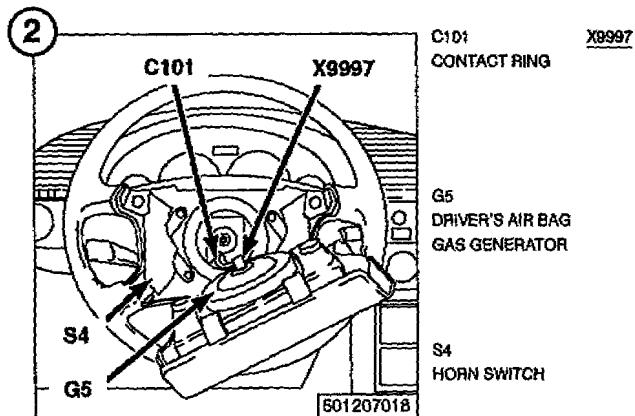
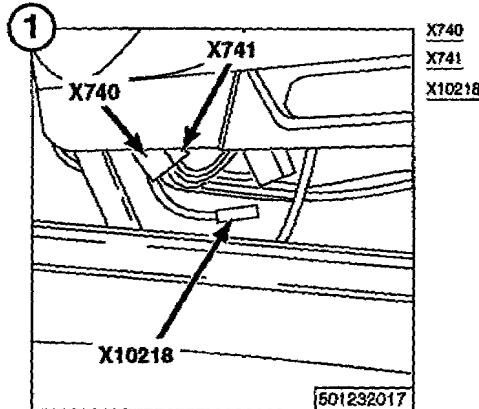
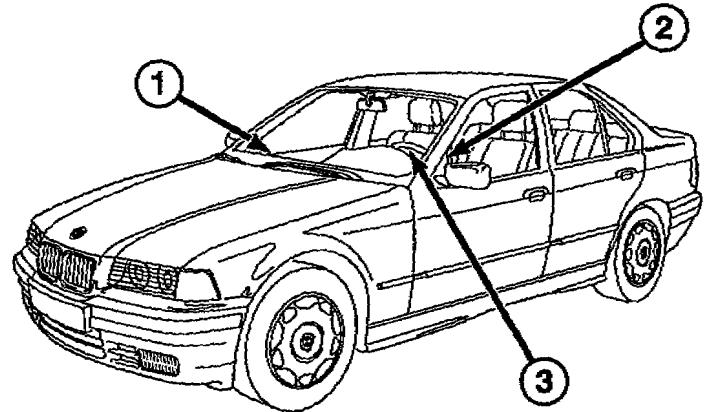


## COMPONENT LOCATION VIEWS

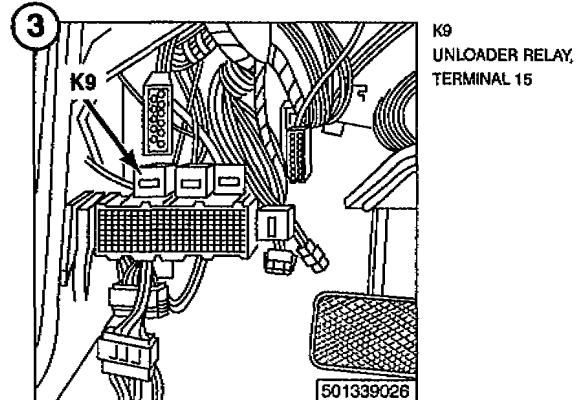
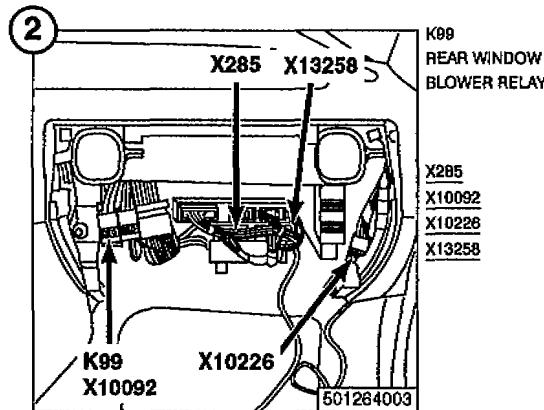
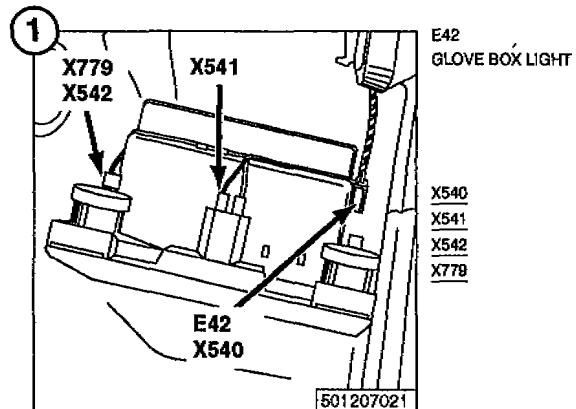
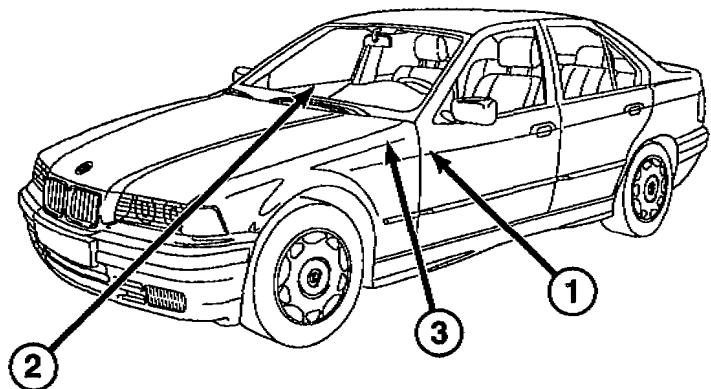
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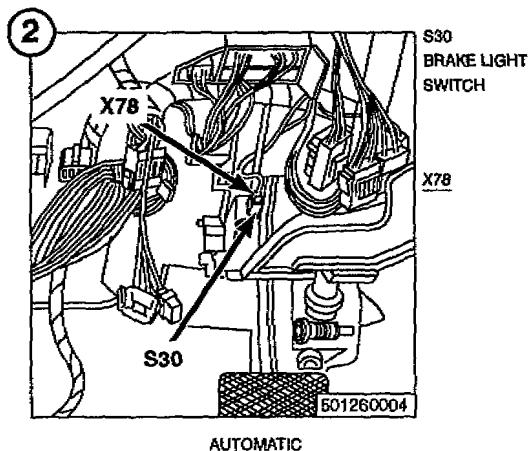
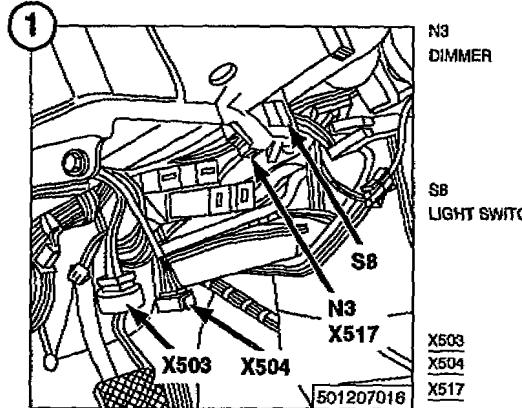
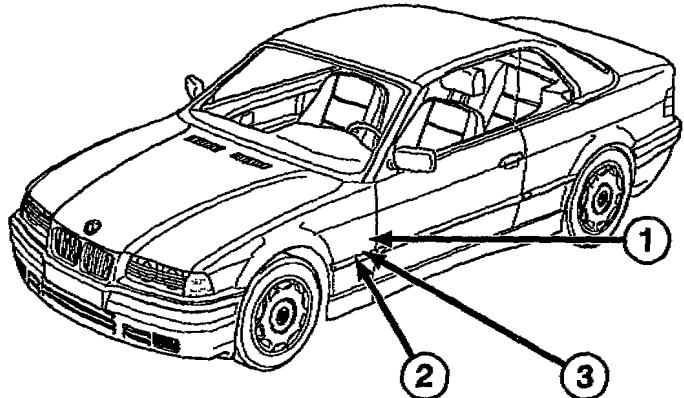
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1996

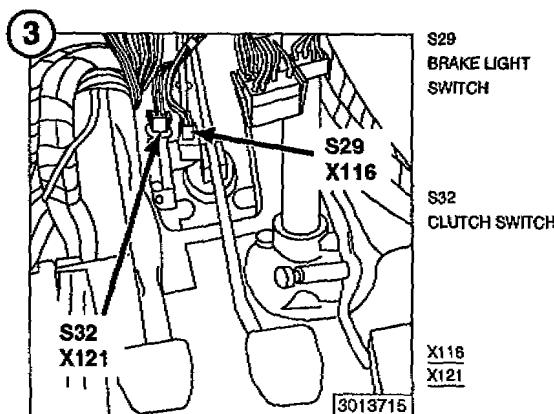


## COMPONENT LOCATION VIEWS





AUTOMATIC



MANUAL

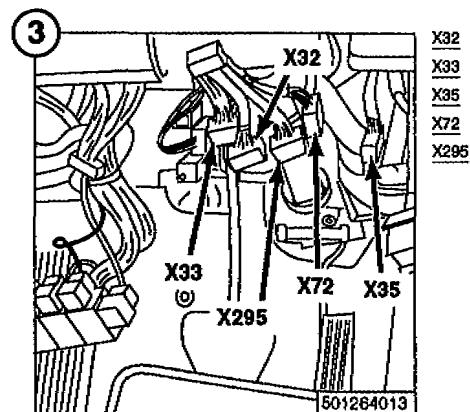
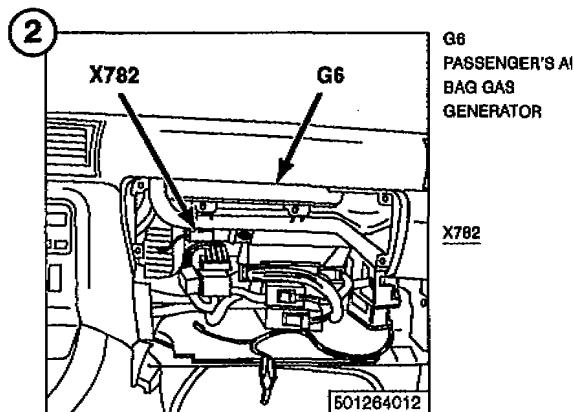
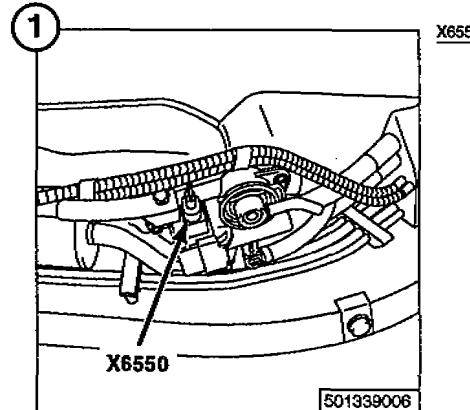
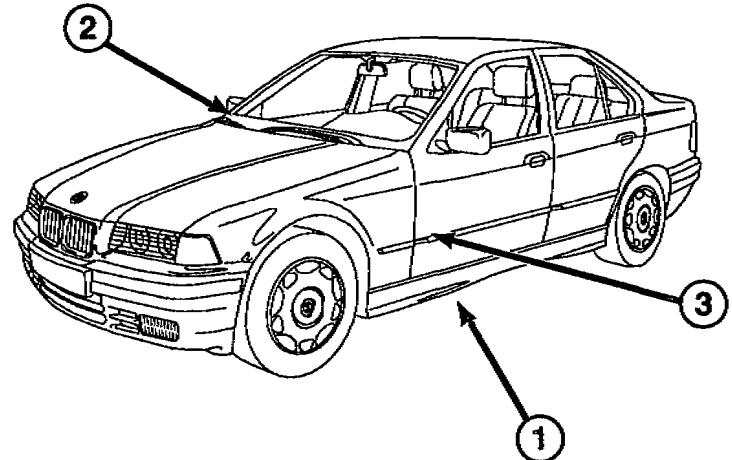


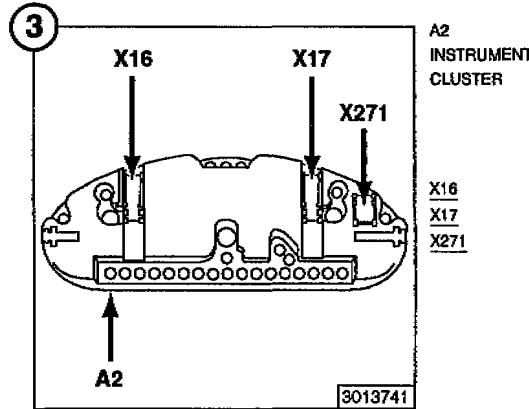
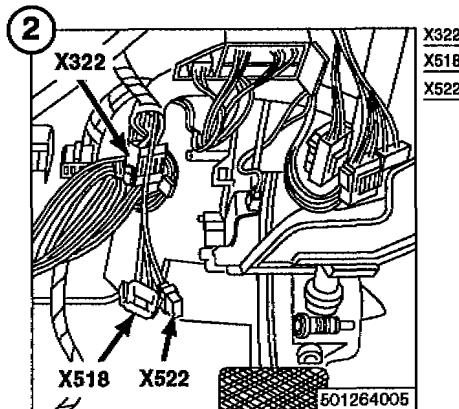
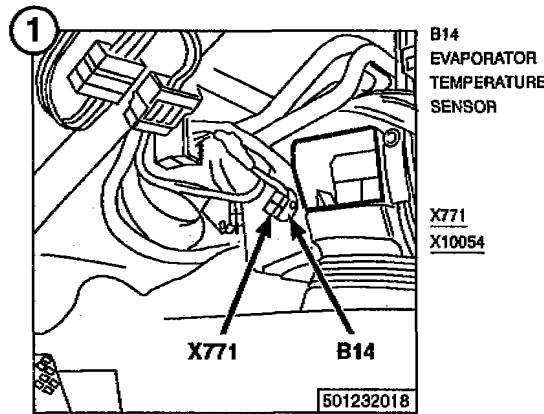
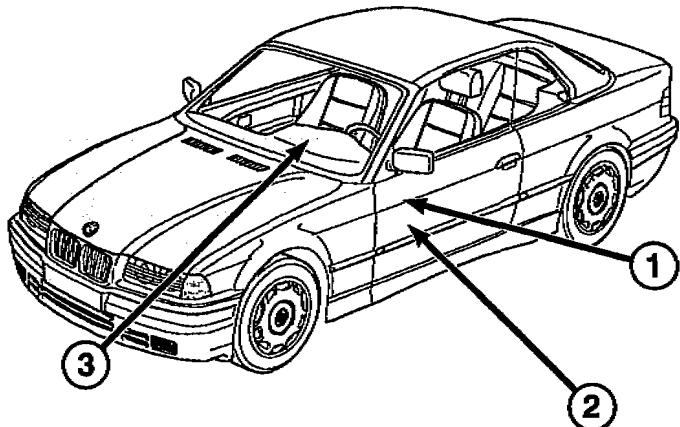
## COMPONENT LOCATION VIEWS

04/97

7100.0-27

1996





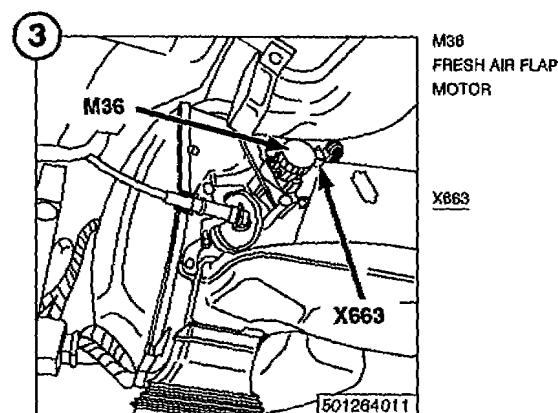
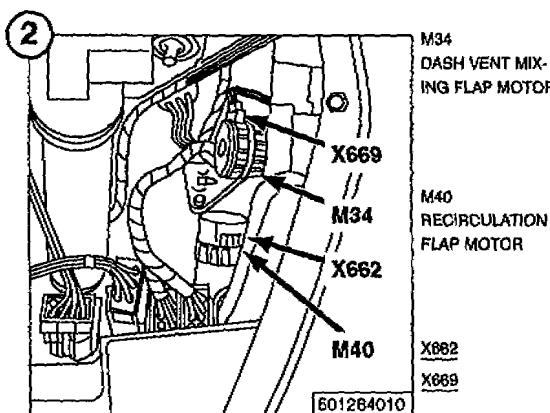
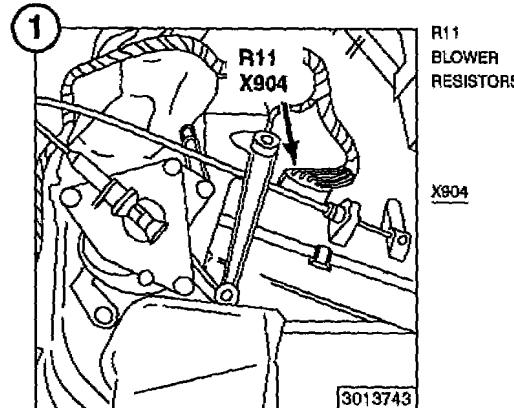
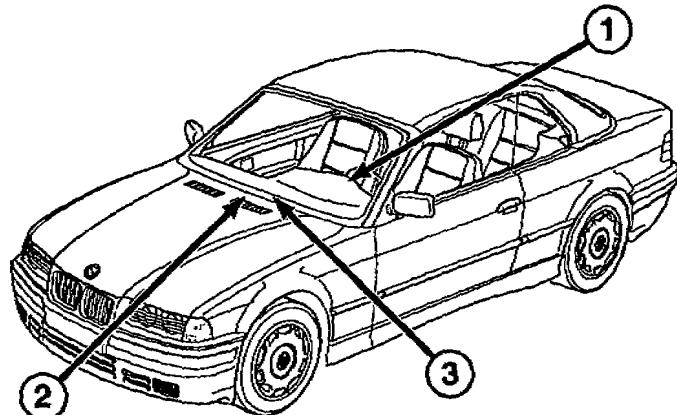


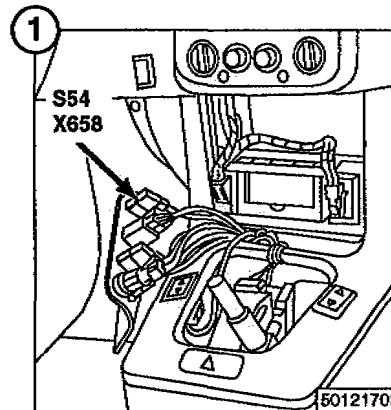
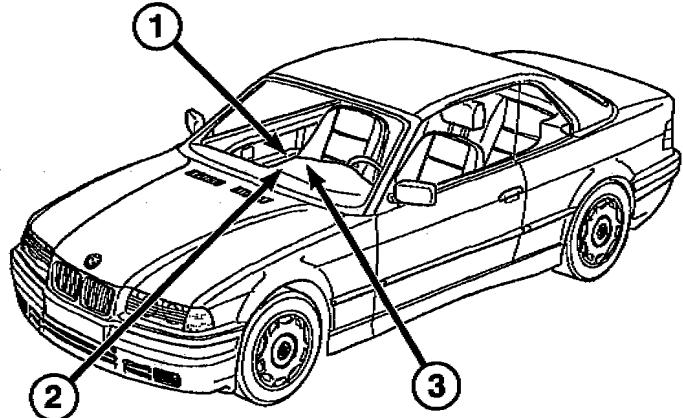
## COMPONENT LOCATION VIEWS

04/97

7100.0-29

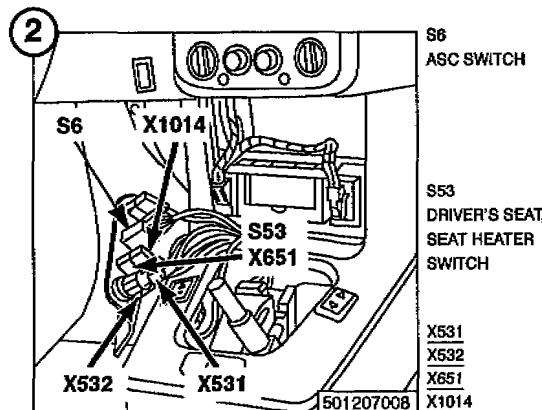
1996





S54  
PASSENGER'S  
SEAT, SEAT  
HEATER SWITCH

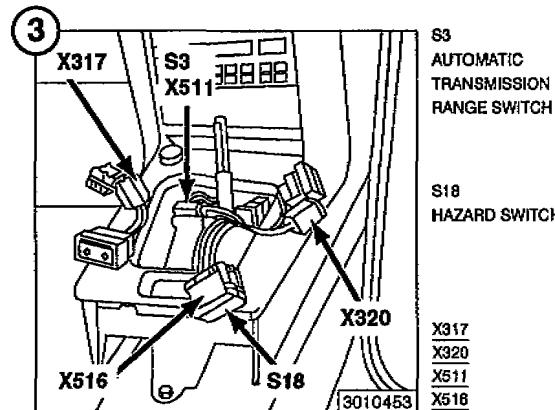
X658



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  
X518  
3010453

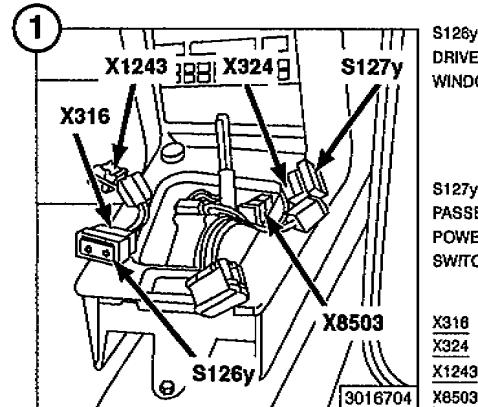
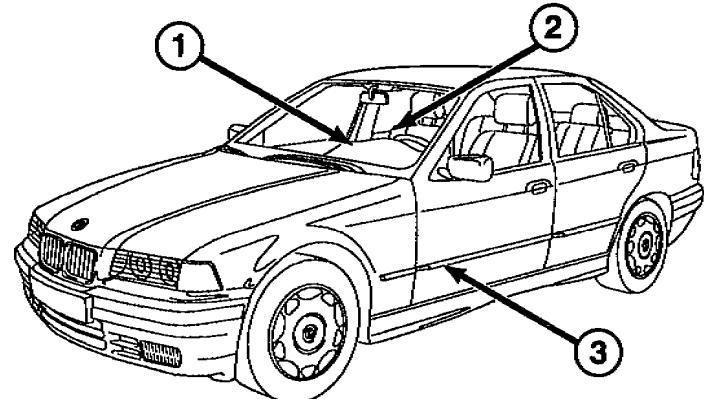


## COMPONENT LOCATION VIEWS

04/97

7100.0-31

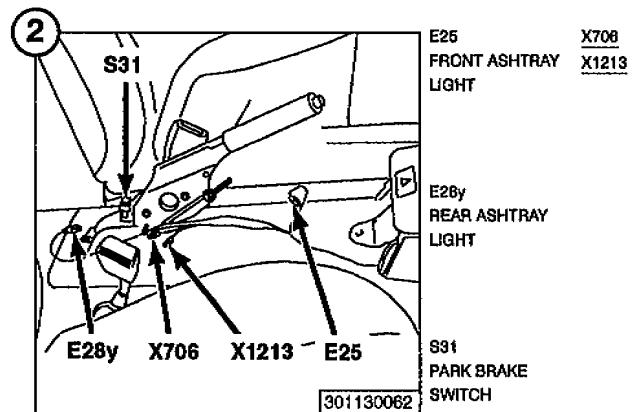
1996



S126y  
DRIVER'S POWER WINDOW SWITCH

S127y  
PASSENGER'S POWER WINDOW SWITCH

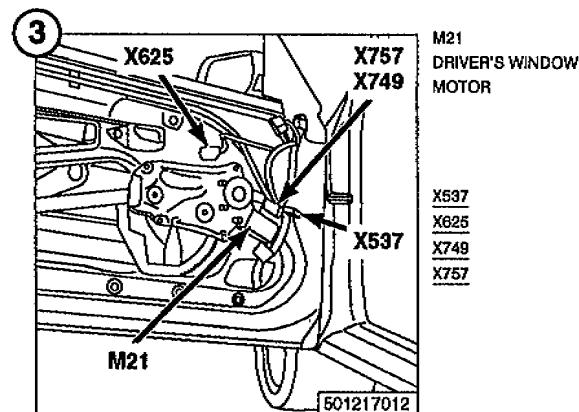
X316  
X324  
X1243  
X8503



E26 FRONT ASHTRAY LIGHT X706 X1213

E28y REAR ASHTRAY LIGHT

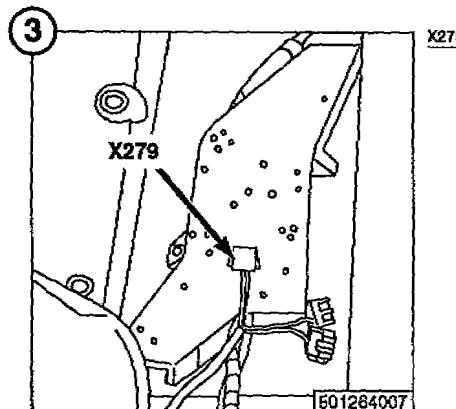
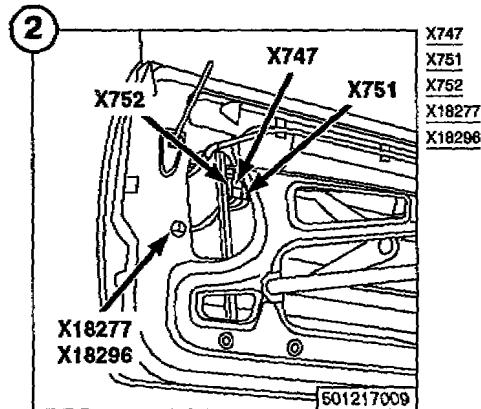
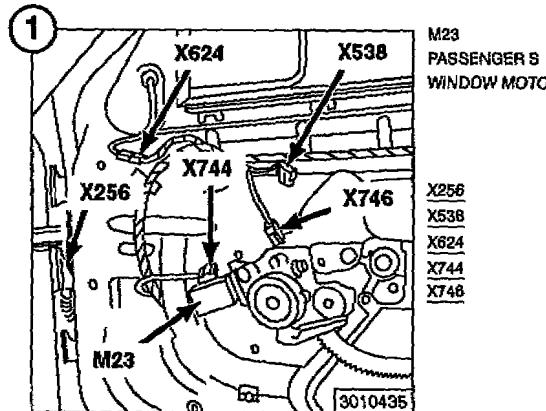
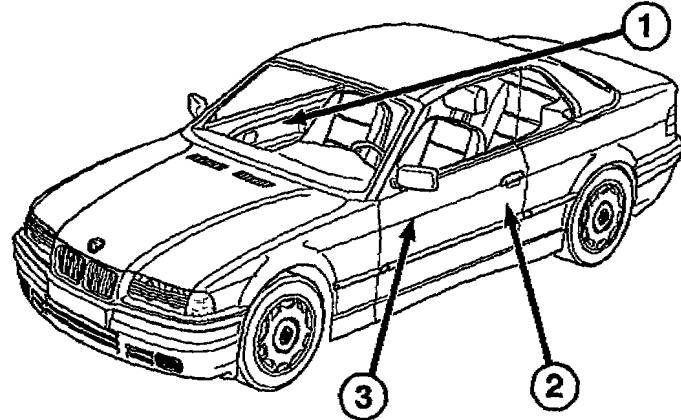
S31 PARK BRAKE SWITCH



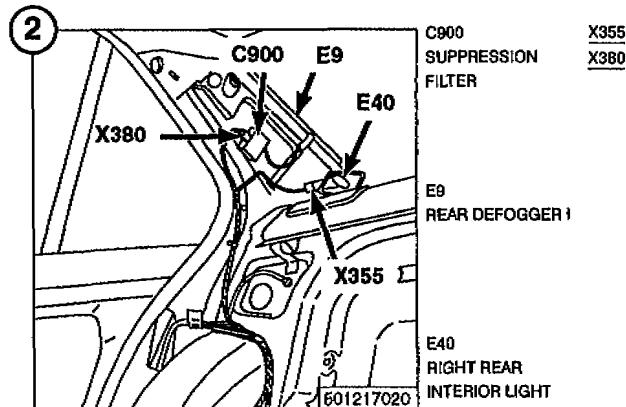
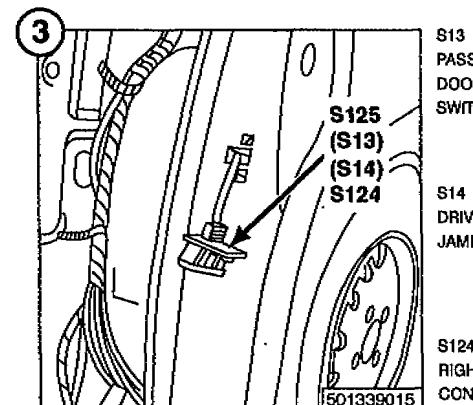
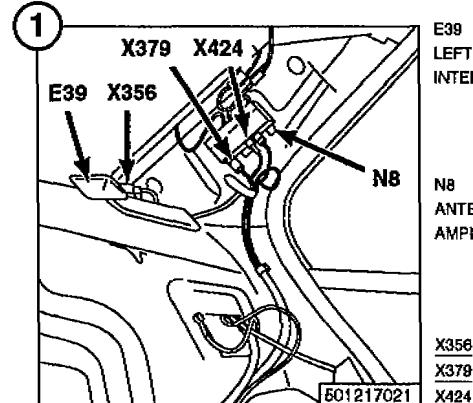
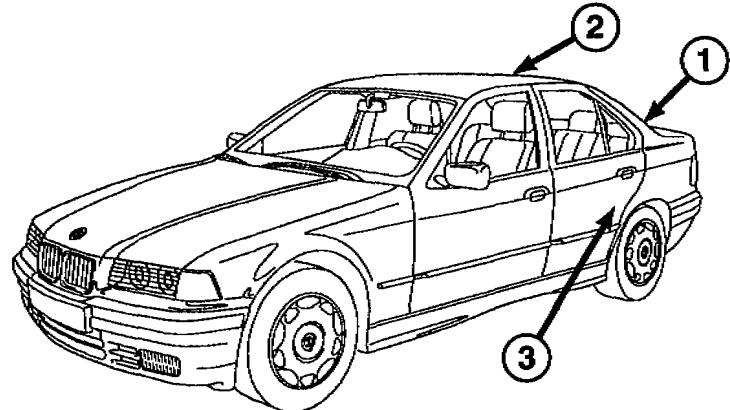
M21 DRIVER'S WINDOW MOTOR X757 X749

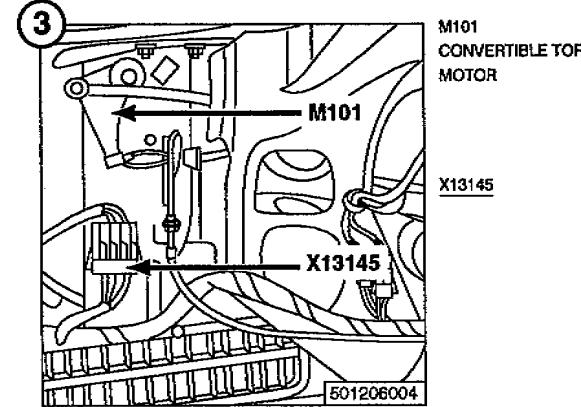
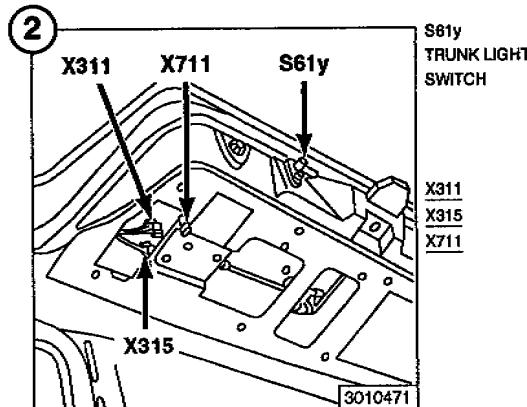
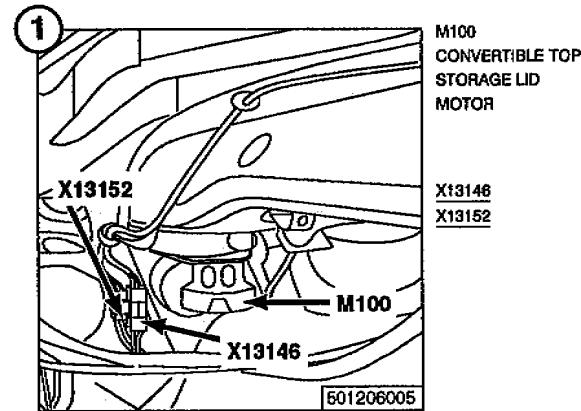
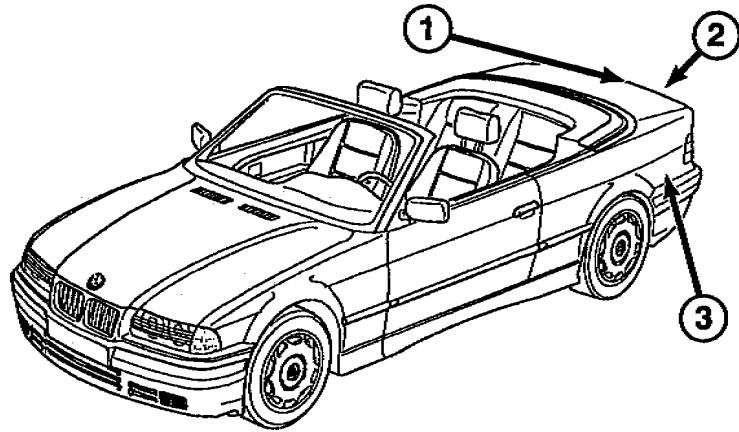
X537  
X625  
X749  
X757

501217012

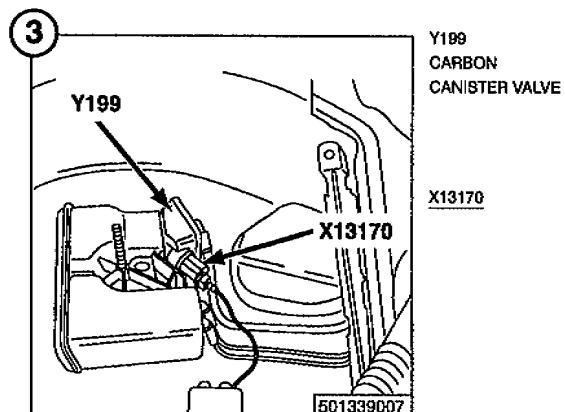
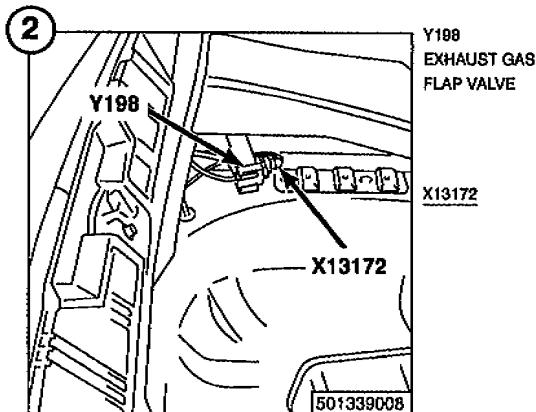
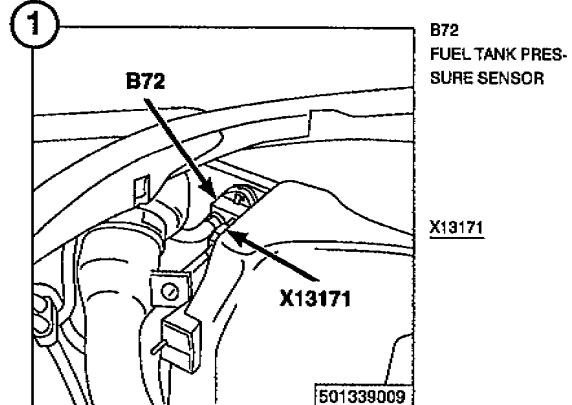
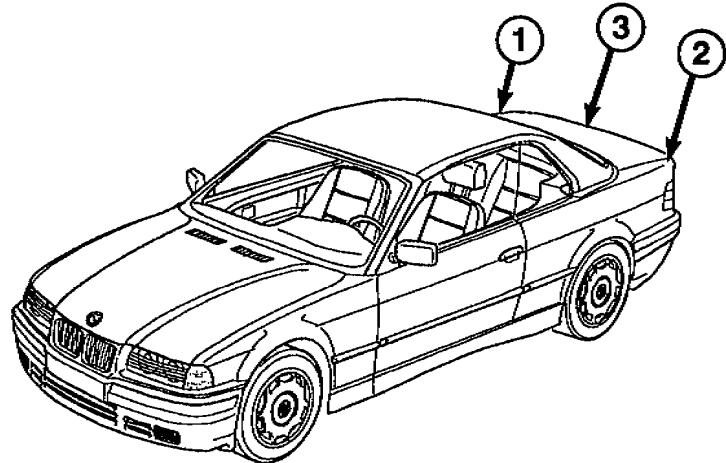


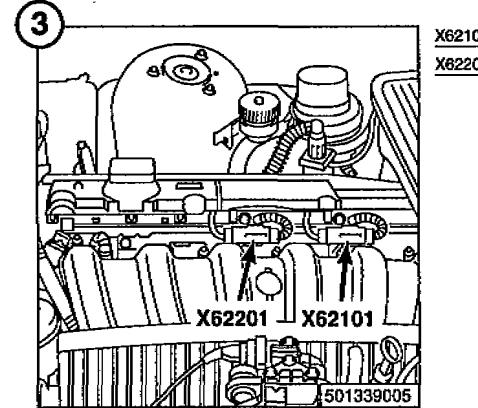
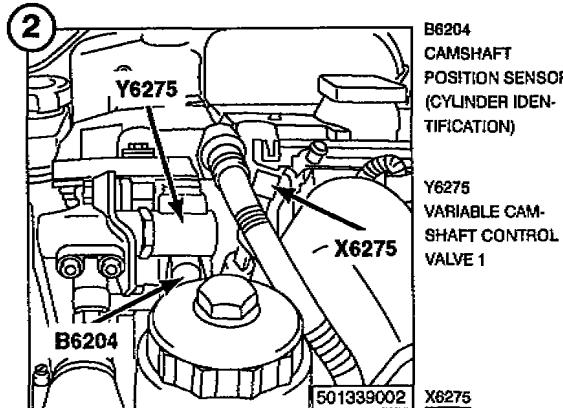
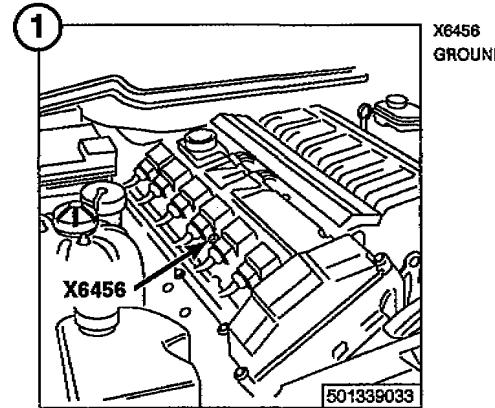
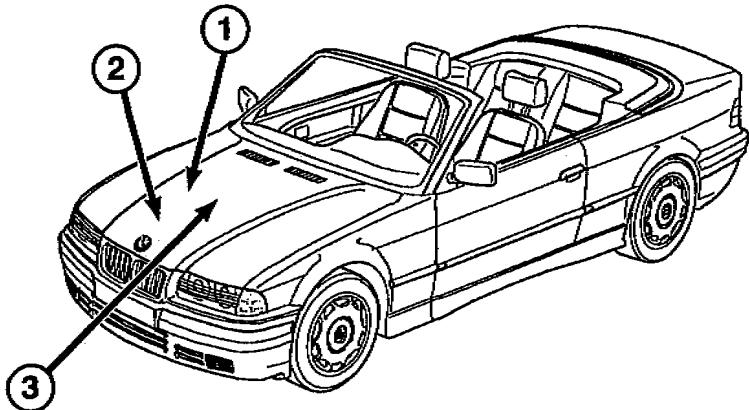
## COMPONENT LOCATION VIEWS





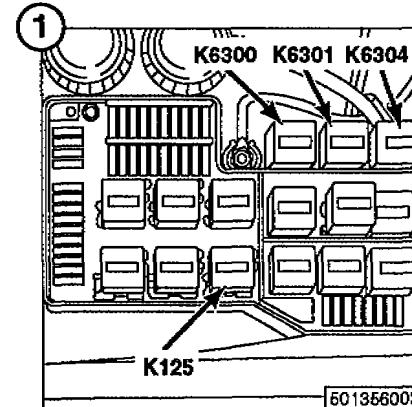
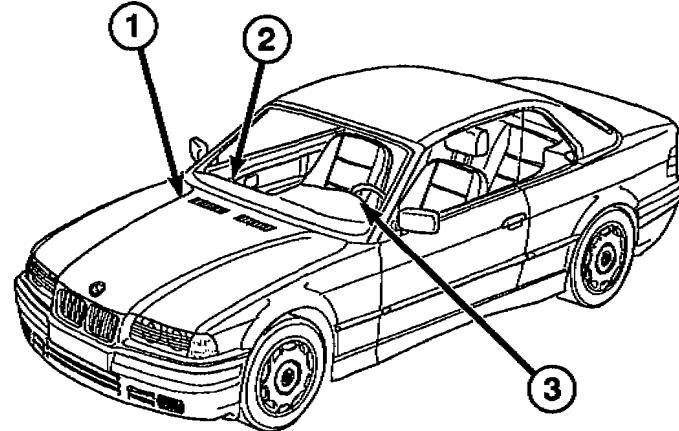
## COMPONENT LOCATION VIEWS





## COMPONENT LOCATION VIEWS

## ELECTRICAL CONTROL MODULE LOCATIONS

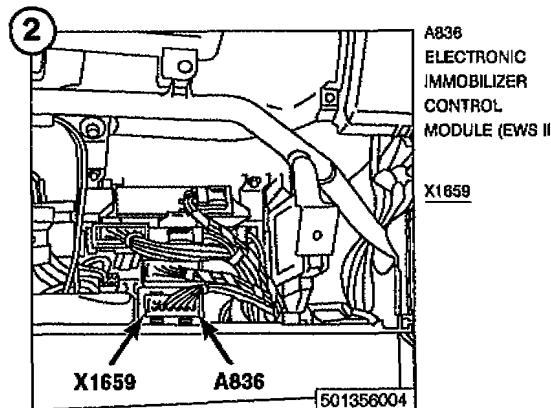


K125  
ABS PUMP MOTOR  
RELAY, TIMED

K6304  
SECONDARY AIR  
PUMP RELAY

K6300  
ENGINE CONTROL  
MODULE RELAY

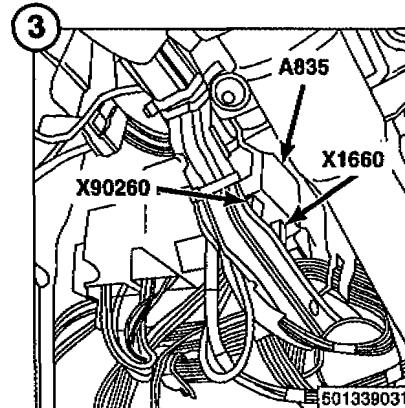
K6301  
CYL. 1-8 FUEL  
PUMP RELAY



A836  
ELECTRONIC  
IMMOBILIZER  
CONTROL  
MODULE (EWS II)

X1659

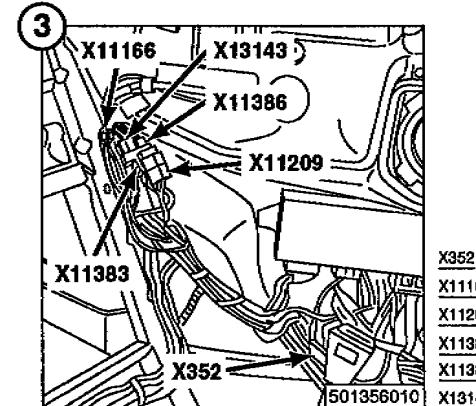
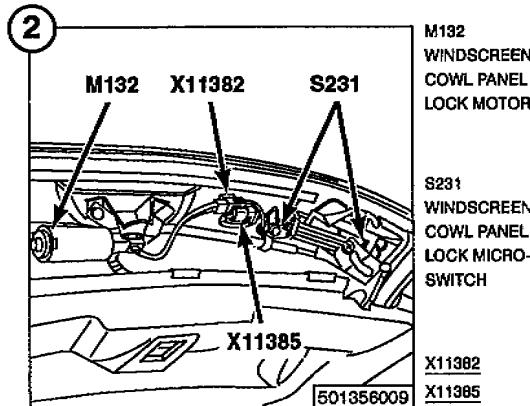
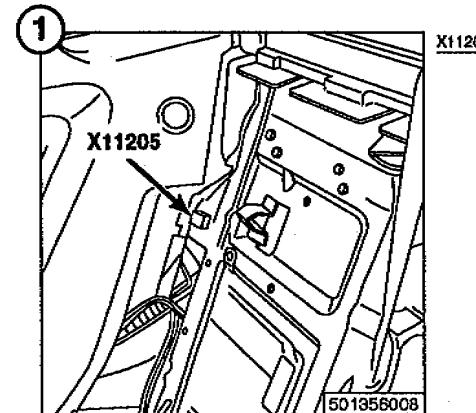
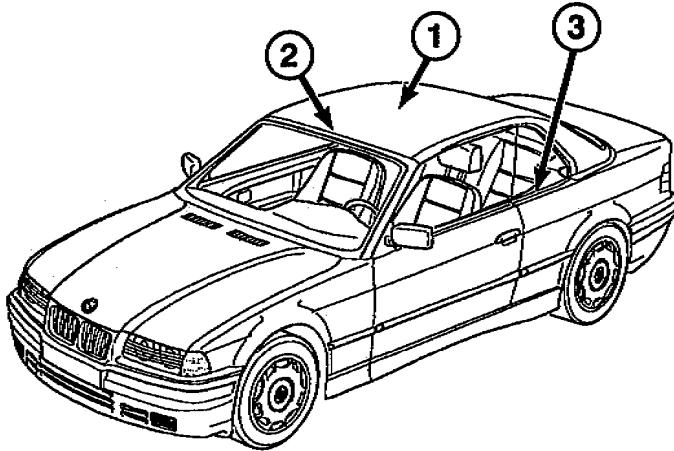
501356004



A835  
TRANSMITTER  
MODULE (EWS I)

X1660  
X90260

501339031





8000.0



## SPLICER LOCATION VIEWS

04/97

SPLICER	HARNESS	PAGE NUMBER	SPLICER	HARNESS	PAGE NUMBER
X181-X276 .....	FRONT .....	8000.0-02	X5018-X5035 .....	S50 ENGINE .....	8000.0-06
X313-X314 .....	REAR .....	8000.0-03	X6410 .....	M42/M43 ENGINE .....	8000.0-05
X313-X314 .....	REAR, CONVERTIBLE .....	8000.0-04	X6410 .....	M50 ENGINE .....	8000.0-07
X428-X481 .....	REAR .....	8000.0-03	X6410-X6411 .....	M44 ENGINE .....	8000.0-08
X428 .....	REAR, CONVERTIBLE .....	8000.0-04	X6410-X6492 .....	S50 ENGINE .....	8000.0-06
X441-X456 .....	REAR, CONVERTIBLE .....	8000.0-04	X6411 .....	M50 ENGINE .....	8000.0-07
X460-X462 .....	REAR, CONVERTIBLE .....	8000.0-04	X6411-X6420 .....	M52 ENGINE .....	8000.0-09
X465-X481 .....	REAR, CONVERTIBLE .....	8000.0-04	X6458-X6459 .....	M52 ENGINE .....	8000.0-09
X530-X595 .....	FRONT .....	8000.0-02	X6458-X6492 .....	M42/M43 ENGINE .....	8000.0-05
X805 .....	REAR .....	8000.0-03	X6458-X6461 .....	M50 ENGINE .....	8000.0-07
X805 .....	REAR, CONVERTIBLE .....	8000.0-04	X6460-X6463 .....	M44 ENGINE .....	8000.0-08
X824-X830 .....	RADIO .....	NOT SHOWN	X6475 .....	M50 ENGINE .....	8000.0-07
X849-X851 .....	DRIVER'S DOOR .....	NOT SHOWN	X6475 .....	M52 ENGINE .....	8000.0-09
X876-X878 .....	RADIO .....	NOT SHOWN	X6491 .....	M50 ENGINE .....	8000.0-07
X906 .....	IHKR .....	NOT SHOWN	X6492 .....	M50 ENGINE .....	8000.0-07
X942 .....	PASSENGER'S DOOR .....	NOT SHOWN	X6492 .....	M44 ENGINE .....	8000.0-08
X1015-X1164 .....	FRONT .....	8000.0-02	X6492 .....	M52 ENGINE .....	8000.0-09
X1167 .....	REAR .....	8000.0-03	X6810-X6823 .....	M52 ENGINE .....	8000.0-09
X1168-X1192 .....	FRONT .....	8000.0-02	X6810-X6866 .....	M42/M43 ENGINE .....	8000.0-05
X1212-X1218 .....	REAR .....	8000.0-03	X6810-X6866 .....	S50 ENGINE .....	8000.0-06
X1212-X1238 .....	REAR, CONVERTIBLE .....	8000.0-04	X6810 .....	M50 ENGINE .....	8000.0-07
X1225-X1233 .....	FRONT .....	8000.0-02	X6820-X6821 .....	M44 ENGINE .....	8000.0-08
X1226-X1235 .....	REAR .....	8000.0-03	X6820-X6822 .....	M50 ENGINE .....	8000.0-07
X1258 .....	FRONT .....	8000.0-02	X6830-X6831 .....	M50 ENGINE .....	8000.0-07
X1299 .....	REAR .....	8000.0-03	X6832 .....	M44 ENGINE .....	8000.0-08
X1382-X1383 .....	RADIO .....	W22	X6832-X6835 .....	M52 ENGINE .....	8000.0-09
X1387-X1396 .....	REAR .....	8000.0-03	X6833 .....	M44 ENGINE .....	8000.0-08
X1387-X1396 .....	REAR, CONVERTIBLE .....	8000.0-04	X6835 .....	M44 ENGINE .....	8000.0-08

8000.0-00

1996

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X6835-X6836 .....	M50 ENGINE .....	8000.0-07	X8103 .....	M52 ENGINE .....	8000.0-09
X6860-X6869 .....	M52 ENGINE .....	8000.0-09	X8564-X8576 .....	M44 ENGINE .....	8000.0-08
X6860-X6891 .....	M44 ENGINE .....	8000.0-08	X8564-X8576 .....	M52 ENGINE .....	8000.0-09
X6863-X6866 .....	M50 ENGINE .....	8000.0-07	X8565 .....	M52 ENGINE .....	8000.0-09
X6900 .....	M44 ENGINE .....	8000.0-08	X10007-X10100 .....	FRONT .....	8000.0-02
X6900 .....	M52 ENGINE .....	8000.0-09	X10118 .....	REAR, CONVERTIBLE .....	8000.0-04
X6900-X6906 .....	M50 ENGINE .....	8000.0-07	X10169 .....	M44 ENGINE .....	8000.0-08
X6900-X6906 .....	S50 ENGINE .....	8000.0-06	X10251-10252 .....	FRONT .....	8000.0-02
X7845-X7846 .....	M44 ENGINE .....	8000.0-08	X10120-X10192 .....	FRONT .....	8000.0-02
X8000-X8015 .....	M52 ENGINE .....	8000.0-09	X10189-X10229 .....	REAR, CONVERTIBLE .....	8000.0-04
X8004 .....	M50 ENGINE .....	8000.0-07	X13002-X13011 .....	REAR .....	8000.0-03
X8004 .....	S50 ENGINE .....	8000.0-06	X13002-X13011 .....	REAR, CONVERTIBLE .....	8000.0-04
X8004-X8015 .....	M44 ENGINE .....	8000.0-08	X13021-X13115 .....	FRONT .....	8000.0-02
X8004-X8576 .....	M42/M43 ENGINE .....	8000.0-05	X13007-X13273 .....	REAR, CONVERTIBLE .....	8000.0-04
X8007 .....	M50 ENGINE .....	8000.0-07	X18160-X18161 .....	IHKR .....	NOT SHOWN
X8010 .....	M50 ENGINE .....	8000.0-07	X18165 .....	FRONT .....	8000.0-02
X8015 .....	M50 ENGINE .....	8000.0-07	X18251 .....	DRIVER'S DOOR .....	NOT SHOWN
X8022 .....	M50 ENGINE .....	8000.0-07	X18252 .....	PASSENGER'S DOOR .....	NOT SHOWN
X8025 .....	M50 ENGINE .....	8000.0-07	X18253 .....	DRIVER'S DOOR .....	NOT SHOWN
X8038 .....	M52 ENGINE .....	8000.0-09	X18254-X18284 .....	PASSENGER'S DOOR .....	NOT SHOWN
X8042 .....	M50 ENGINE .....	8000.0-07	X18783-X18784 .....	FRONT .....	8000.0-02
X8051 .....	M50 ENGINE .....	8000.0-07	X18785-X18799 .....	REAR, CONVERTIBLE .....	8000.0-04
X8056 .....	M50 ENGINE .....	8000.0-07	X19513-X19514 .....	RADIO .....	NOT SHOWN
X8056-X8073 .....	M44 ENGINE .....	8000.0-08	X69008-X69009 .....	S50 ENGINE .....	8000.0-06
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			



## SPLICE LOCATION VIEWS

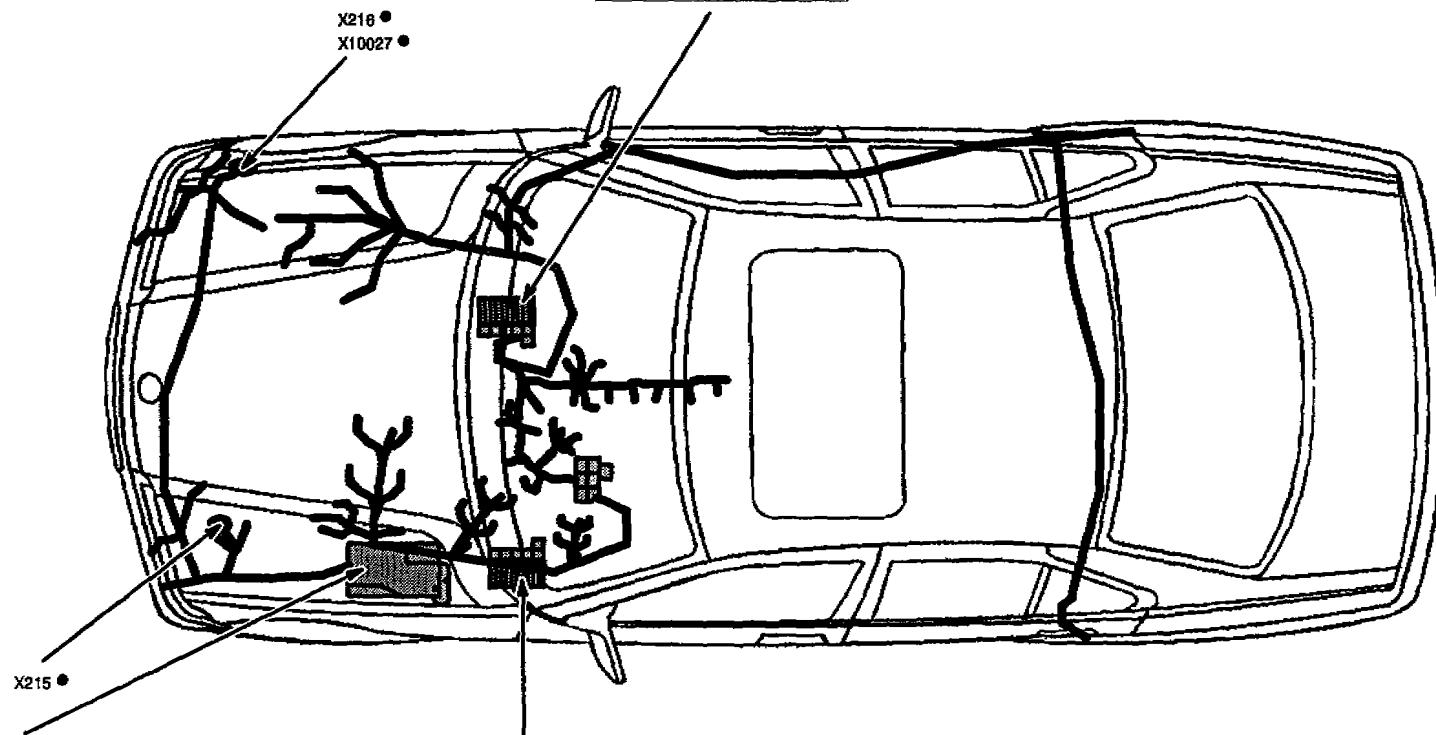
### FRONT HARNESS

04/97

8000-0-02

1996

SPLICE PANEL	
X195 ●	X1149 ●
X218 ●	X10008 ●
X222 ●	X10084 ●
X557 ●	X13115 ●



SPLICE PANEL					
X184 ●	X245 ●	X1027 ●	X1077 ●	X1177 ●	X10022 ●
X185 ●	X248 ●	X1028 ●	X1152 ●	X1188 ●	X10055 ●
X186 ●	X276 ●	X1036 ●	X1159 ●	X1192 ●	X10100 ●
X187 ●	X530 ●	X1055 ●	X1163 ●	X1233 ●	X18783 ●
X203 ●	X595 ●	X1066 ●	X1164 ●	X10007 ●	X18784 ●
X223 ●	X1015 ●	X1073 ●	X1168 ●	X10020 ●	
X238 ●	X1022 ●	X1076 ●	X1172 ●	X10021 ●	

SPLICE PANEL						
X181 ●	X213 ●	X1067 ●	X1179 ●	X10028 ●	X10120 ●	X11284 ●
X182 ●	X228 ●	X1069 ●	X1182 ●	X10029 ●	X10123 ●	X13021 ●
X183 ●	X1019 ●	X1079 ●	X1225 ●	X10060 ●	X10191 ●	X18185 ●
X188 ●	X1029 ●	X1080 ●	X1258 ●	X10061 ●	X10192 ●	
X191 ●	X1047 ●	X1085 ●	X10008 ●	X10090 ●	X10231 ●	
X196 ●	X1065 ●	X1159 ●	X10011 ●	X10103 ●	X10251 ●	
X197 ●	X1066 ●	X1169 ●	X10024 ●	X10104 ●	X10252 ●	



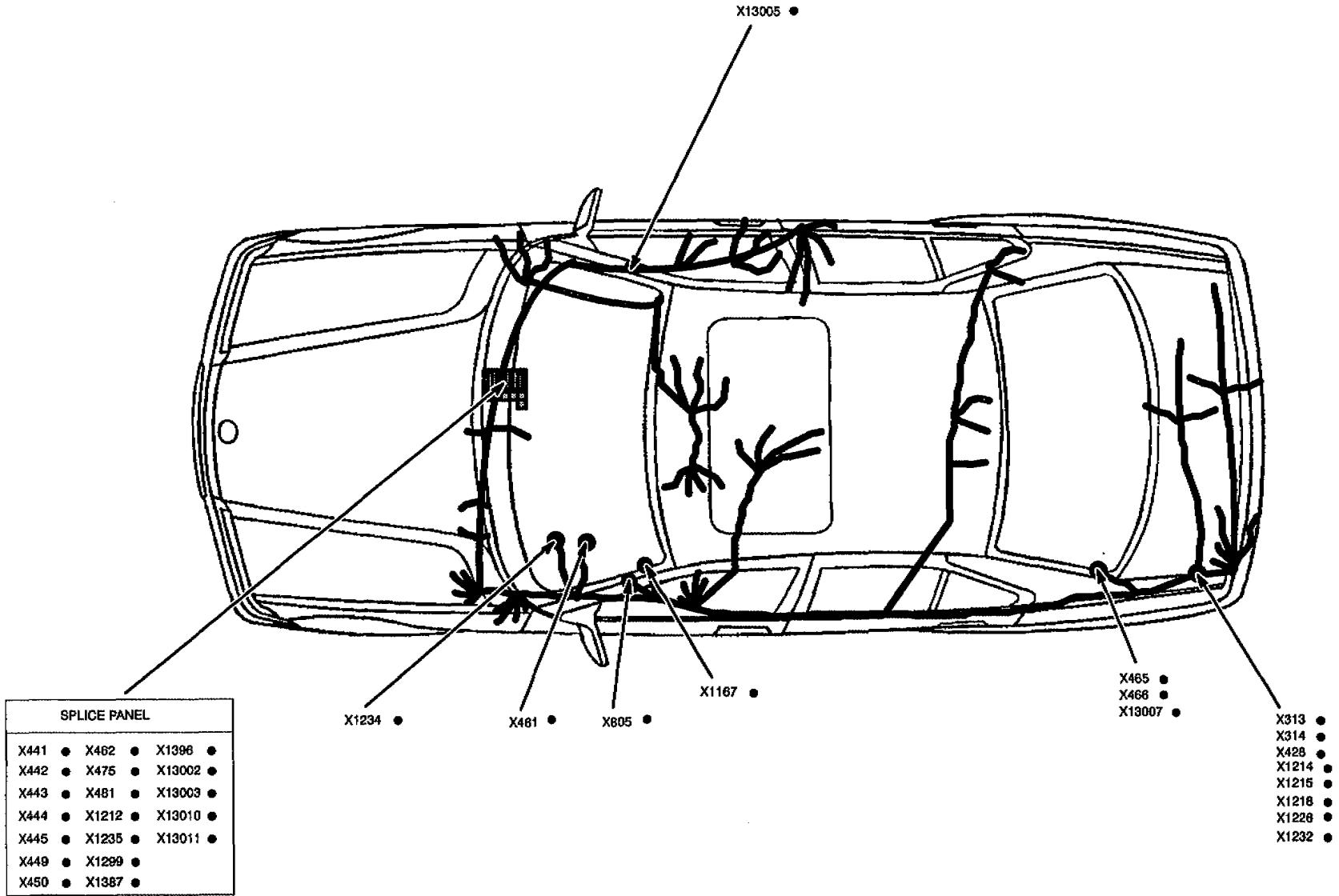
## SPLICE LOCATION VIEWS

### REAR HARNESS

04/97

80000.0-03

1996





## SPLICE LOCATION VIEWS

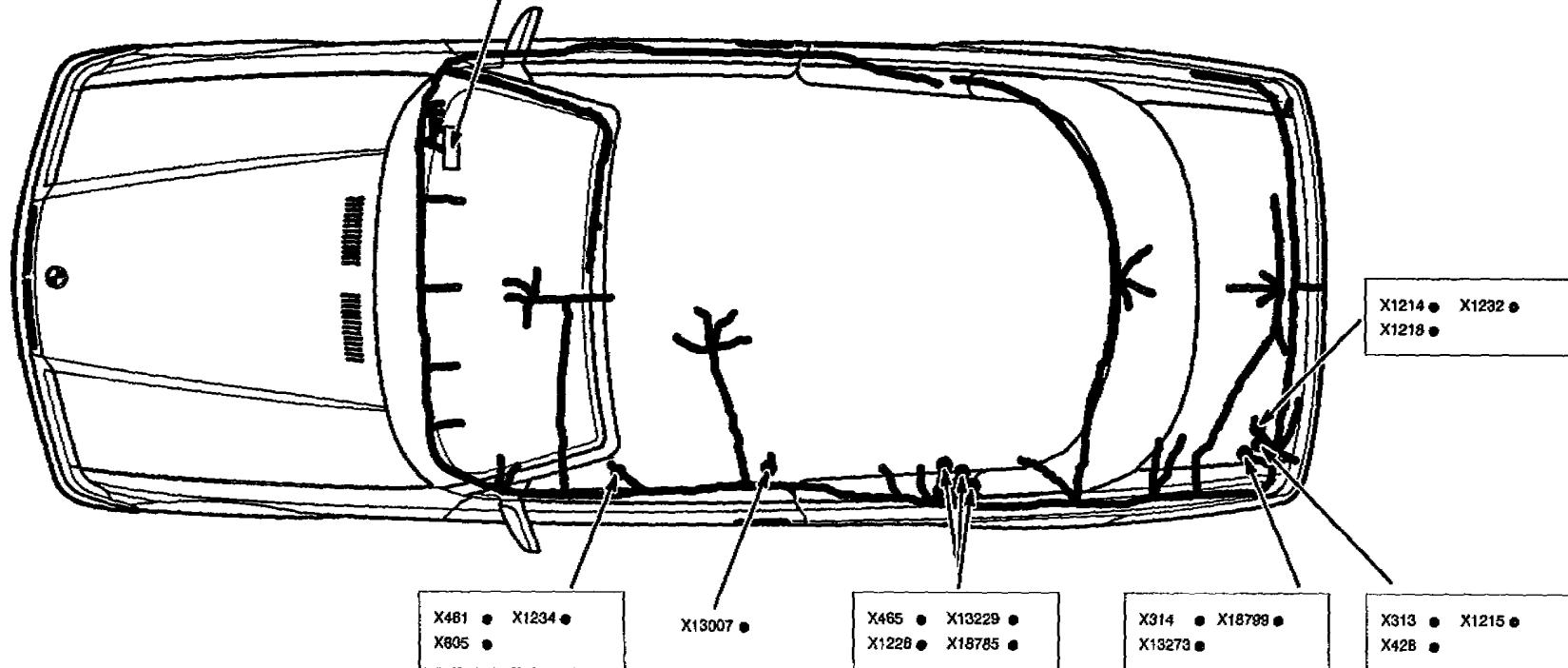
### REAR WIRING HARNESS – CONVERTIBLE

04/97

80000.0-04

1996

SPLICE PANEL	
X441 •	X453 •
X442 •	X454 •
X443 •	X455 •
X444 •	X456 •
X445 •	X460 •
X448 •	X462 •
X450 •	X475 •
X481 •	X1387 •
X1212 •	X1396 •
X1235 •	X10118 •
X1236 •	X10189 •
X1237 •	X10226 •
X1238 •	X10229 •
X1263 •	X13002 •
X13003 •	X13281 •
X13010 •	X18796 •
X13011 •	
X13127 •	
X13129 •	
X13132 •	
X13168 •	





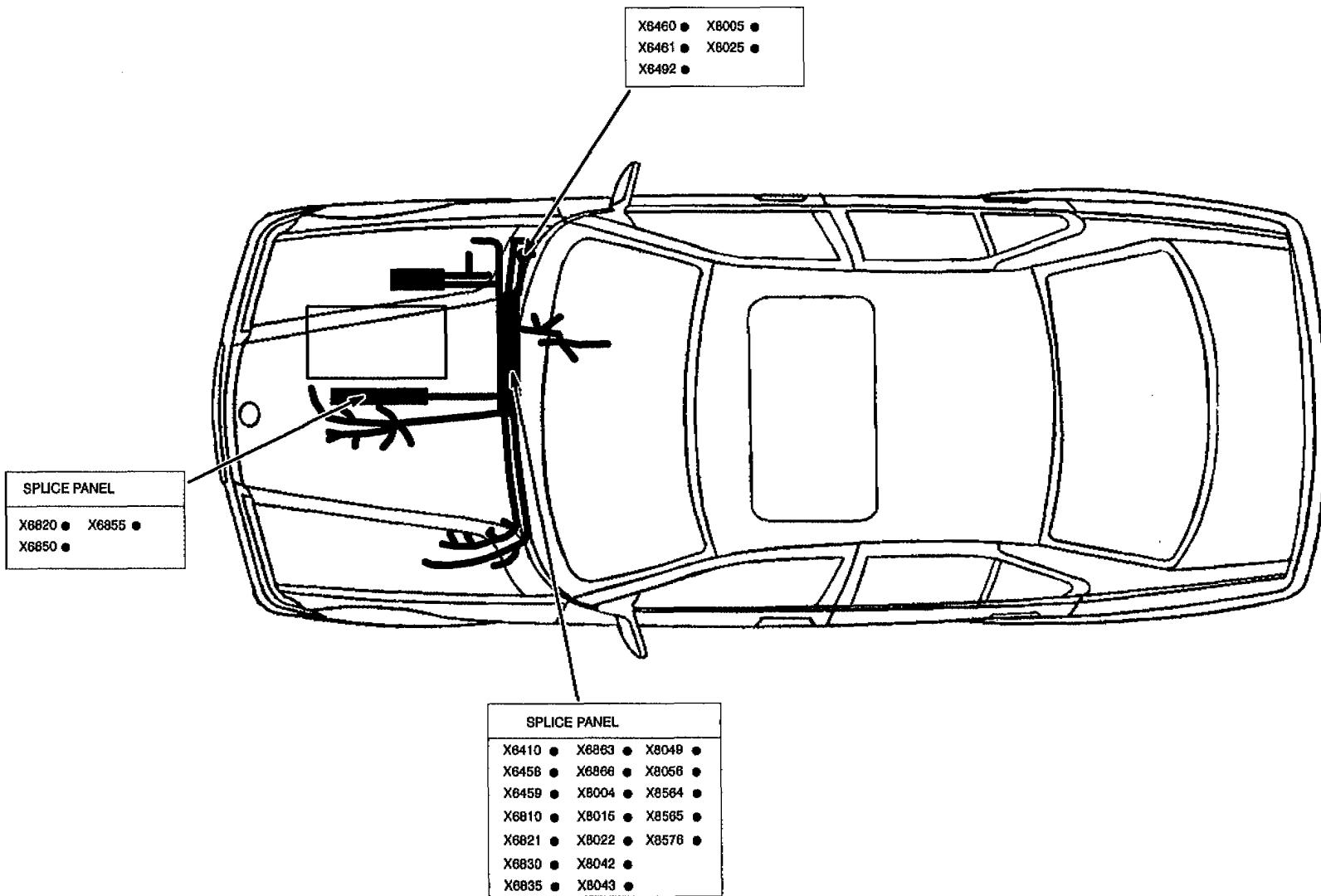
## SPLICE LOCATION VIEWS

### ENGINE HARNESS M42/M43

04/97

8000.0-05

1996





# SPLICE LOCATION VIEWS

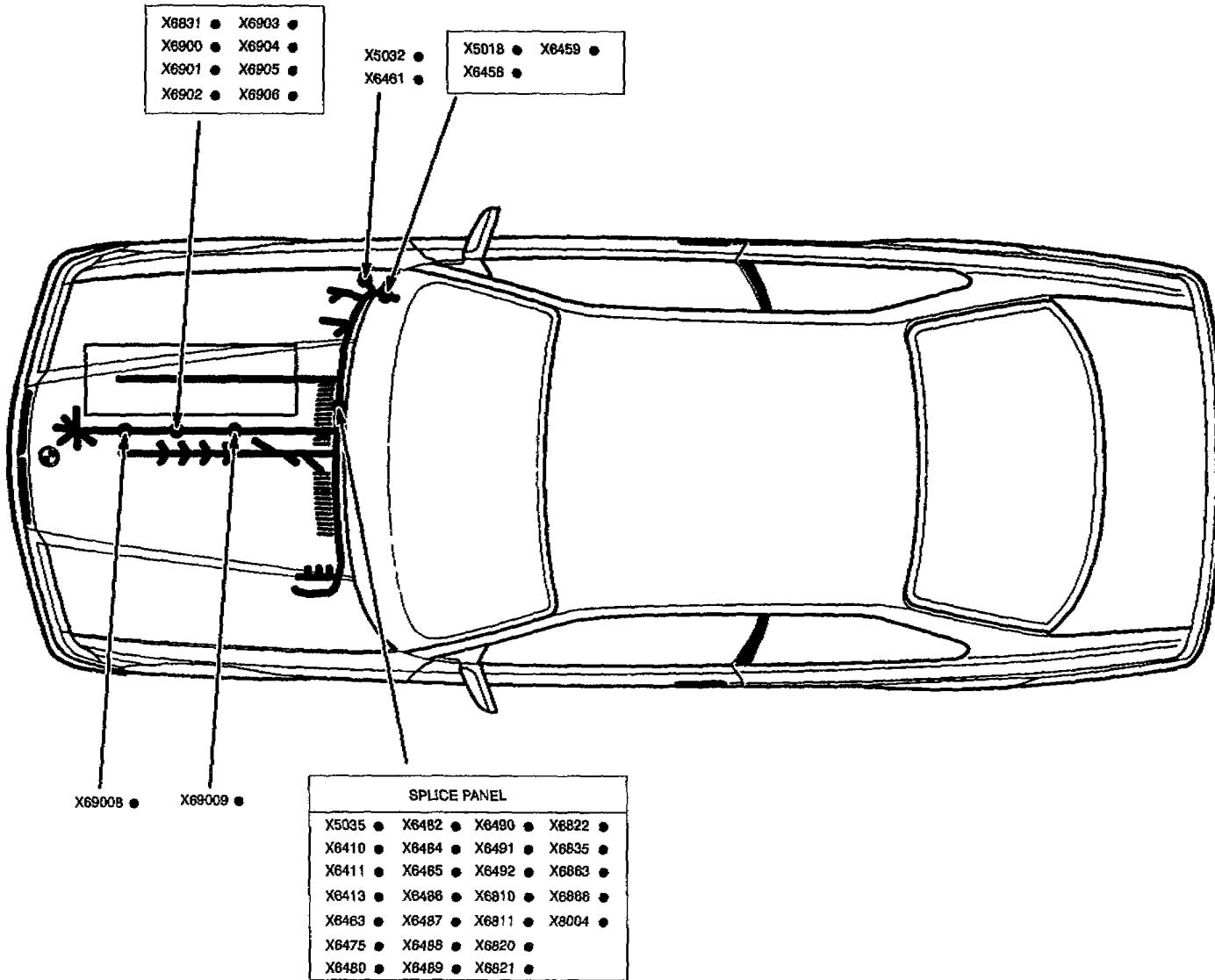
## ENGINE HARNESS S50

CDN

04/97

80000.0-06

1996





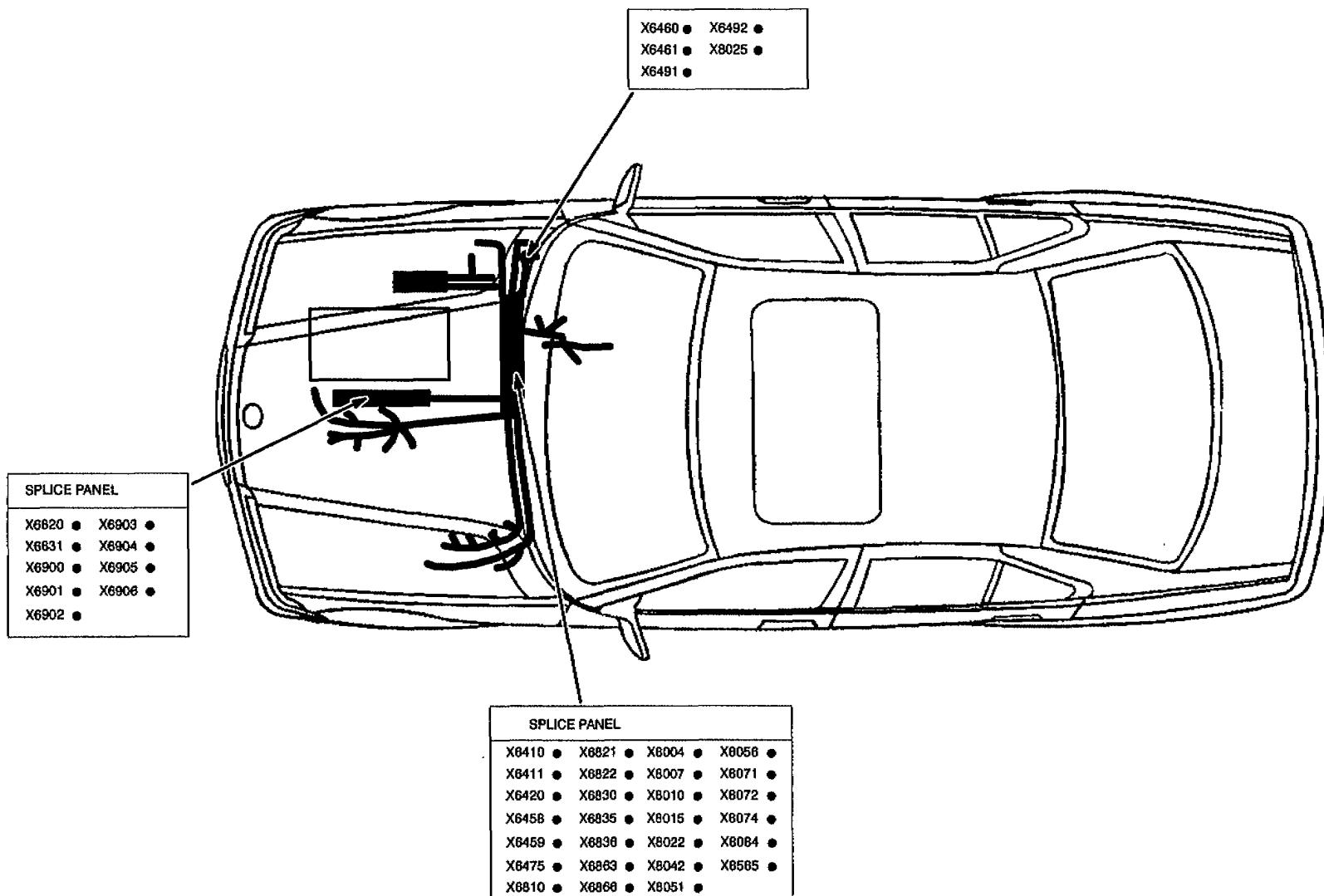
## SPLICE LOCATION VIEWS

### M50 ENGINE HARNESS

04/97

80000.0-07

1996





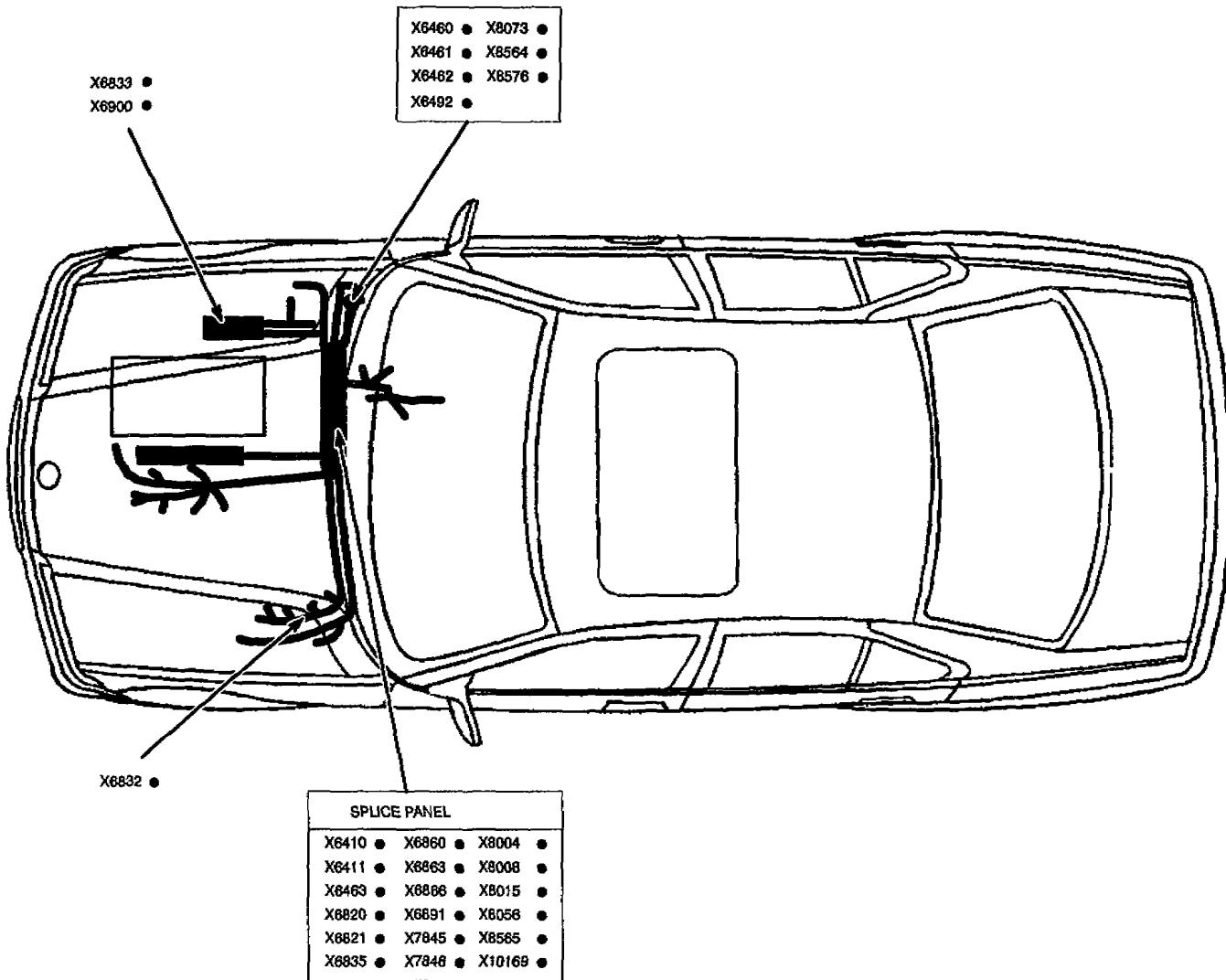
## SPLICE LOCATION VIEWS

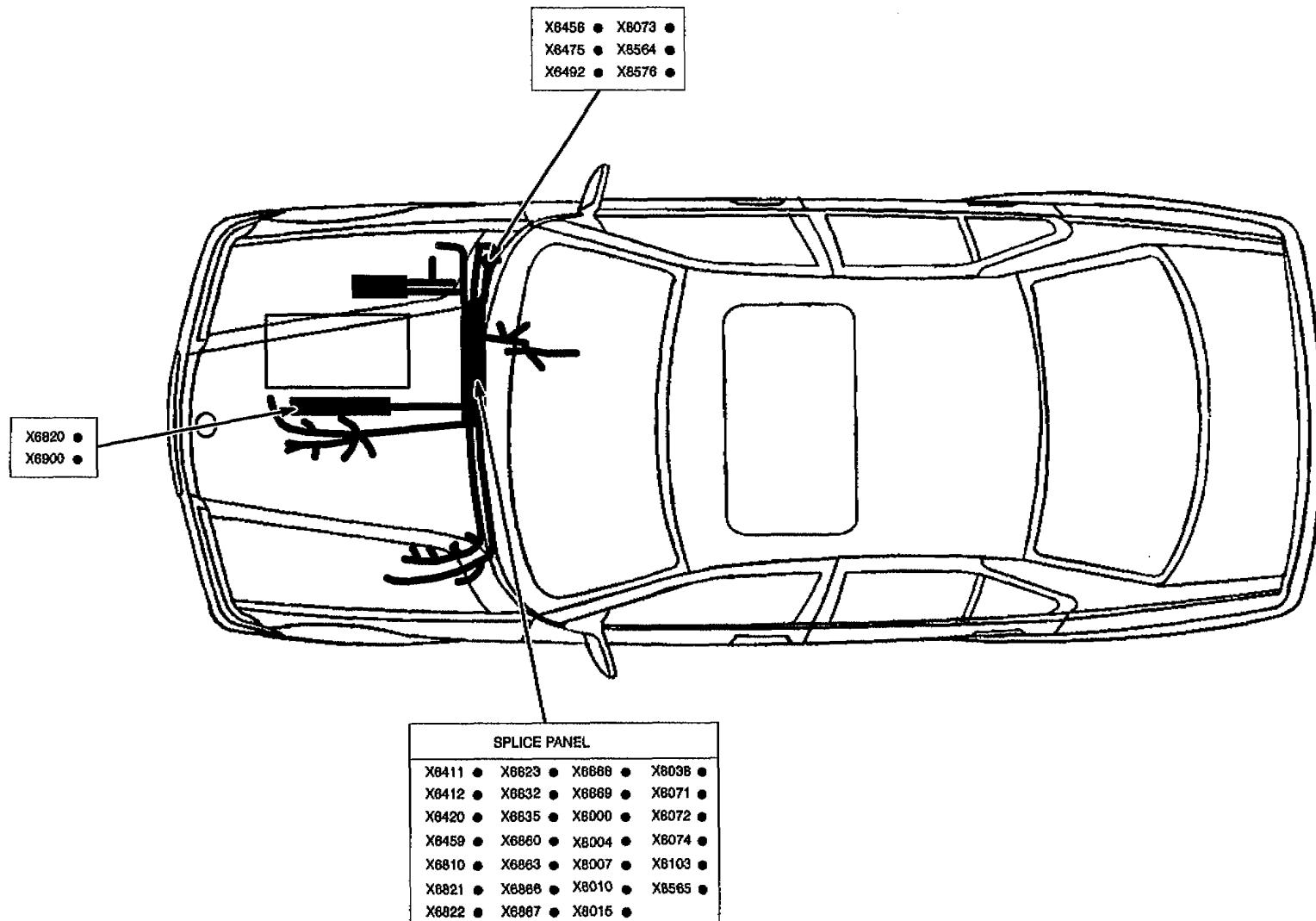
### ENGINE HARNESS M44

04/97

8000.0-08

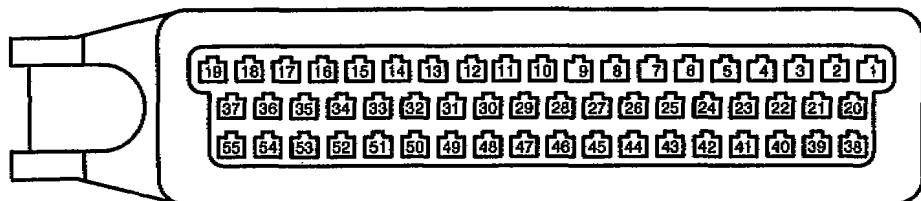
1996



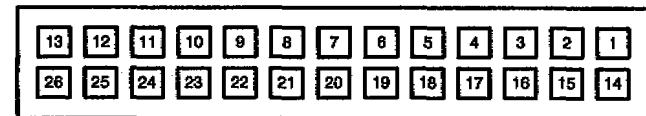


**FIG. 1**

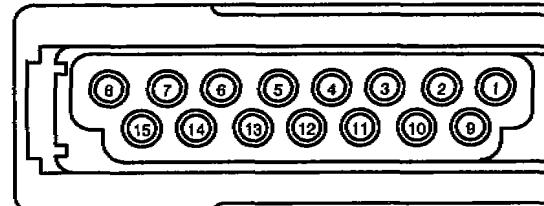
B550001.03

**FIG. 2**

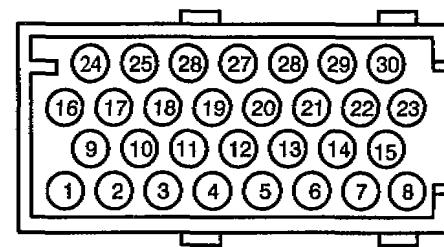
B260005.00

**FIG. 3**

B150003.00

**FIG. 4**

B300001.00





## CONNECTOR VIEWS

FIG. 1

B030024

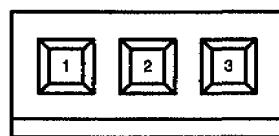


FIG. 2

B120003.00

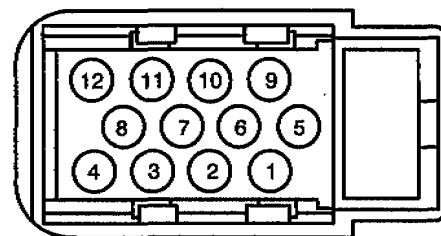


FIG. 3

B120001.00

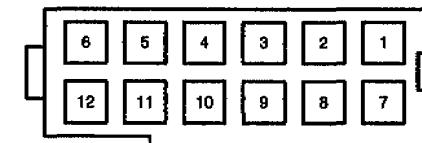


FIG. 4

B080002.00

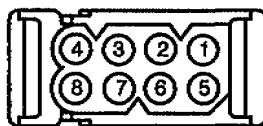


FIG. 5

B180000.00

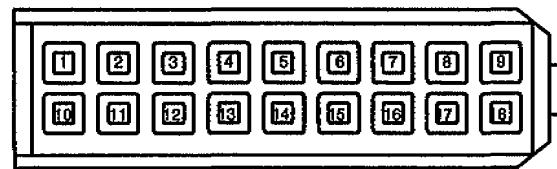
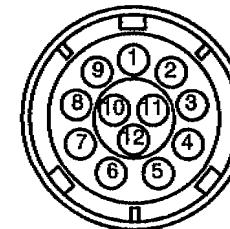


FIG. 6

B120015





## CONNECTOR VIEWS

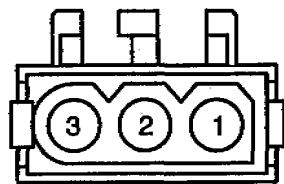
04/97

8500.0-02

1996

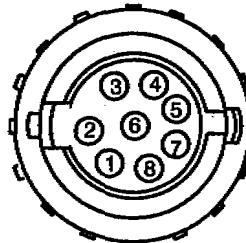
**FIG. 1**

B030001.00



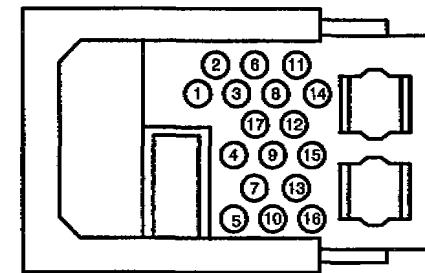
**FIG. 2**

B070007.00



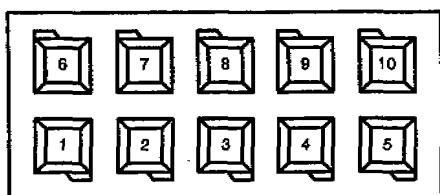
**FIG. 3**

B170001.00



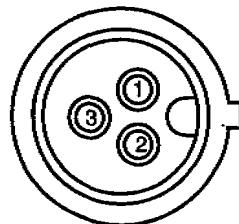
**FIG. 4**

B100008.00



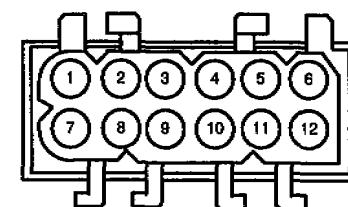
**FIG. 5**

B030005.00



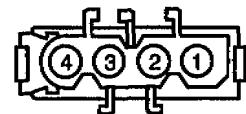
**FIG. 6**

B120004.01



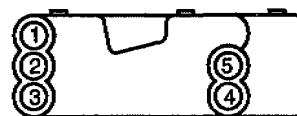
**FIG. 1**

B040002.00



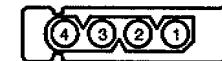
**FIG. 2**

B050003.00



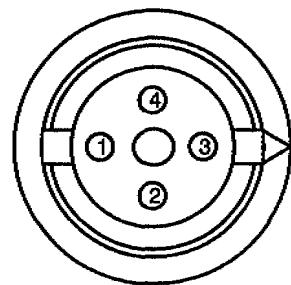
**FIG. 3**

B040004.00



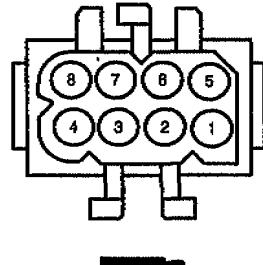
**FIG. 4**

B040018



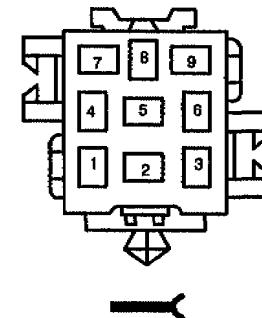
**FIG. 5**

B080001.00



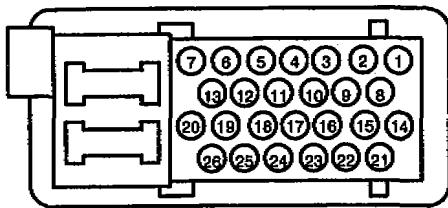
**FIG. 6**

B090002.00



**FIG. 1**

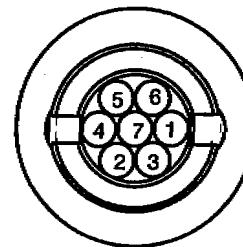
B210002.00

**FIG. 2**

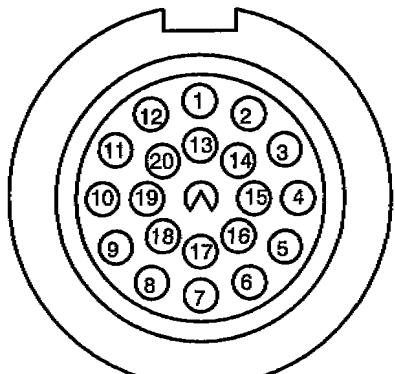
B060001.02

**FIG. 3**

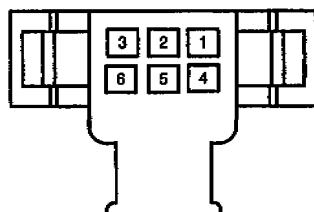
B070005.00

**FIG. 4**

B200003.00

**FIG. 5**

B060010.01

**FIG. 6**

B030003.02





## CONNECTOR VIEWS

04/97

8500.0-05

1996

FIG. 1

B060008.00

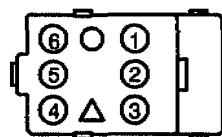


FIG. 2

B250001.01

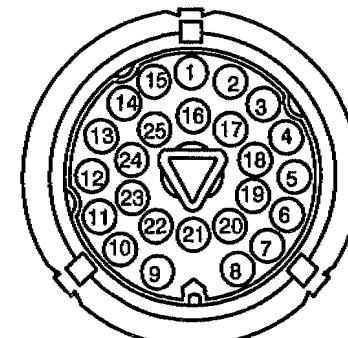


FIG. 3

B060019.02

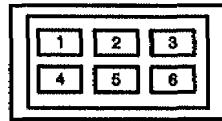


FIG. 4

B060037.00

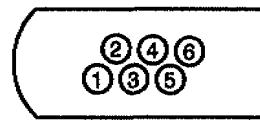
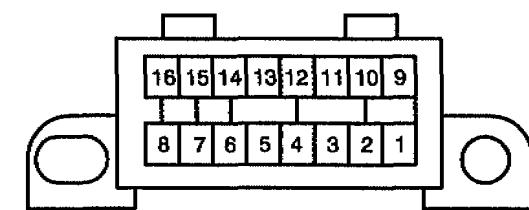


FIG. 5

B160003.00





## CONNECTOR VIEWS

04/97

8500.0-06

1996

FIG. 1

B880001.00

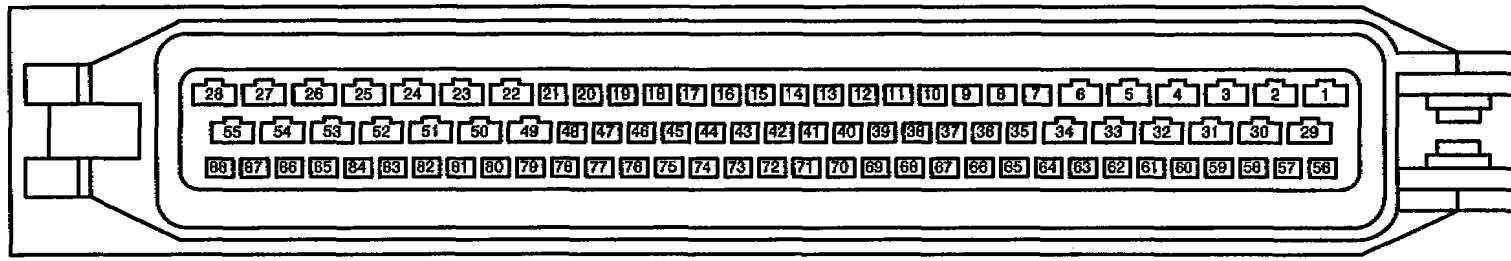


FIG. 2

B060038.00

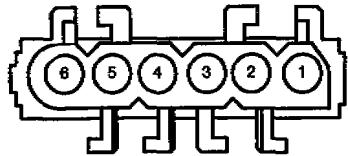


FIG. 3

B030006.00

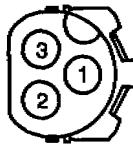
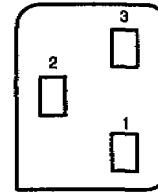


FIG. 4

B030004.01





## CONNECTOR VIEWS

FIG. 1

B060012.00

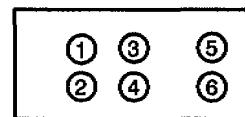


FIG. 2

B040023.01

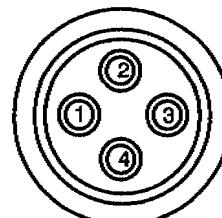


FIG. 3

B030018.00

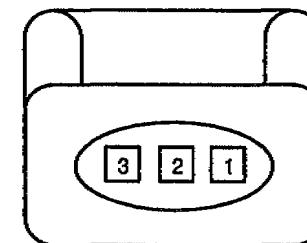


FIG. 4

B030015.08

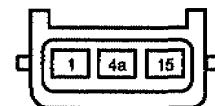


FIG. 5

B030023.00

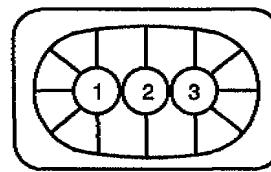
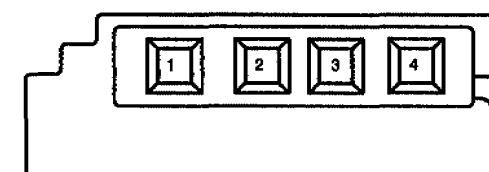


FIG. 6

B040020.00





## CONNECTOR VIEWS

04/97

8500.0-08

1996

FIG. 1

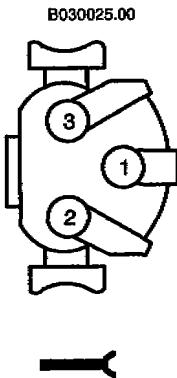


FIG. 2

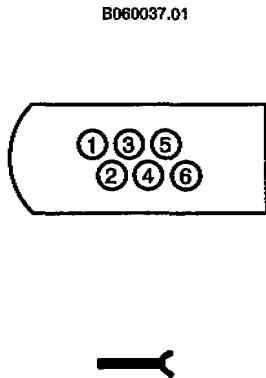


FIG. 3

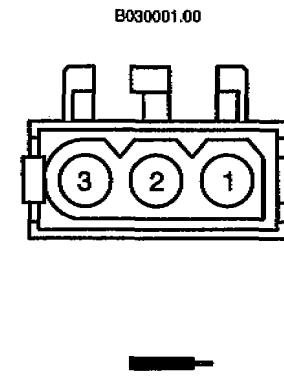


FIG. 4

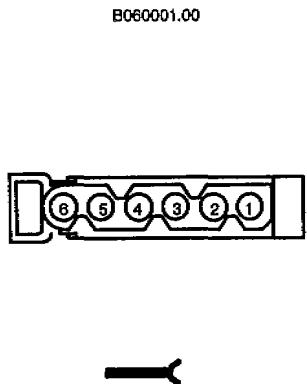


FIG. 5

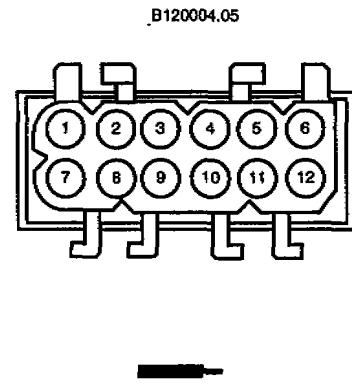
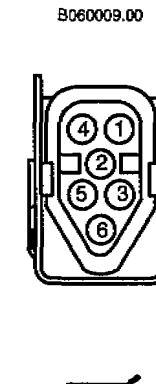


FIG. 6





## CONNECTOR VIEWS

04/97

8500.0-09

1996

FIG. 1

B100004.01

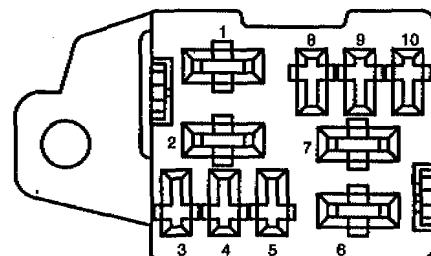


FIG. 2

B180002.00

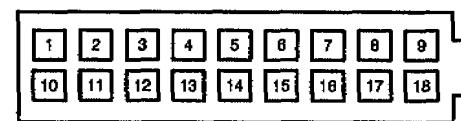


FIG. 3

B060042

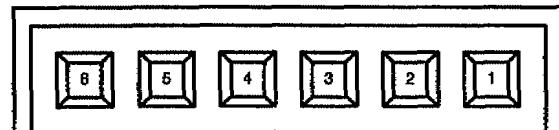
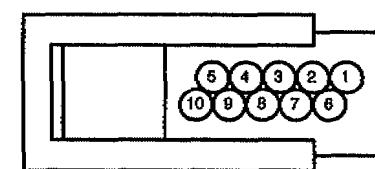


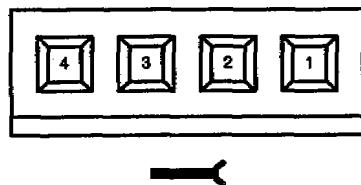
FIG. 4

B100007.00

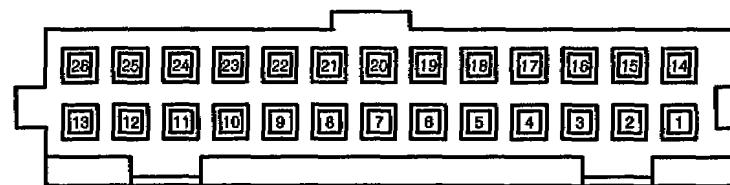


**FIG. 1**

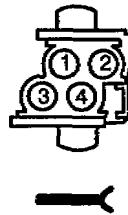
B040021

**FIG. 2**

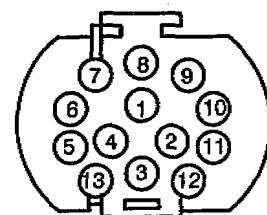
B260002.04

**FIG. 3**

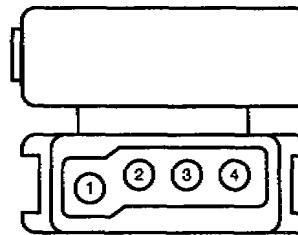
B040003.00

**FIG. 4**

B130002.00

**FIG. 5**

B040013





## CONNECTOR VIEWS

04/97

8500.0-11

1996

FIG. 1

B040022.00

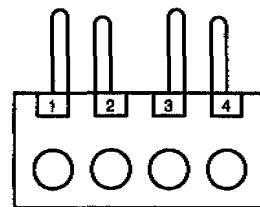


FIG. 2

B030009.00

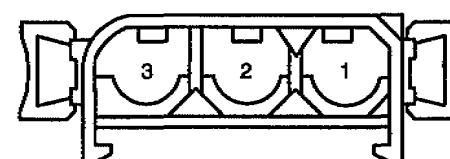


FIG. 3

B120002.02

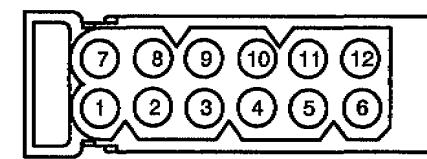


FIG. 4

B160001.00

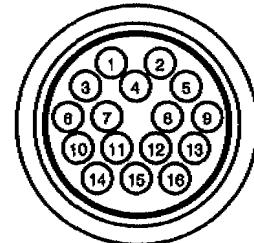


FIG. 5

B100011.01

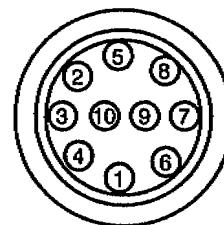
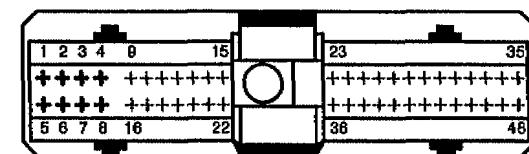


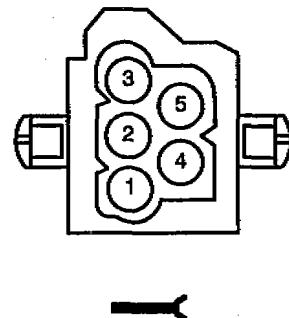
FIG. 6

B460000.00

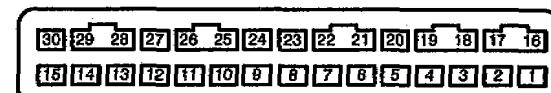


**FIG. 1**

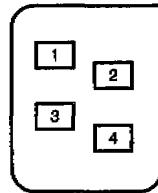
B050005.00

**FIG. 2**

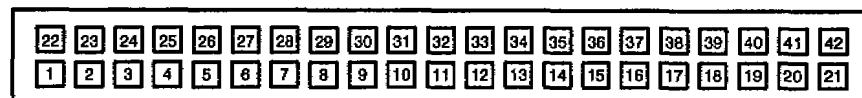
B300003.00

**FIG. 3**

B040027.00

**FIG. 4**

B420000.00





## CONNECTOR VIEWS

04/97

8500.0-13

1996

FIG. 1

B030042.01

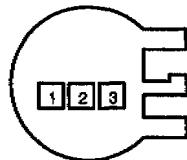


FIG. 2

B030018.01

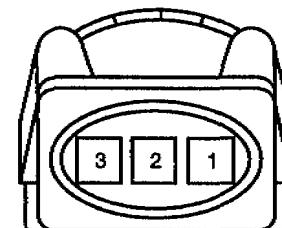


FIG. 3

B090006.00

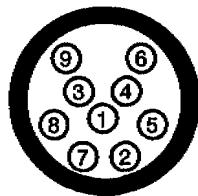
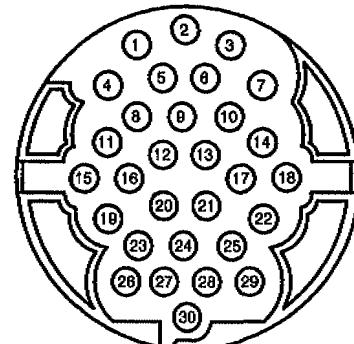


FIG. 4

B300005.00





8500.0-14