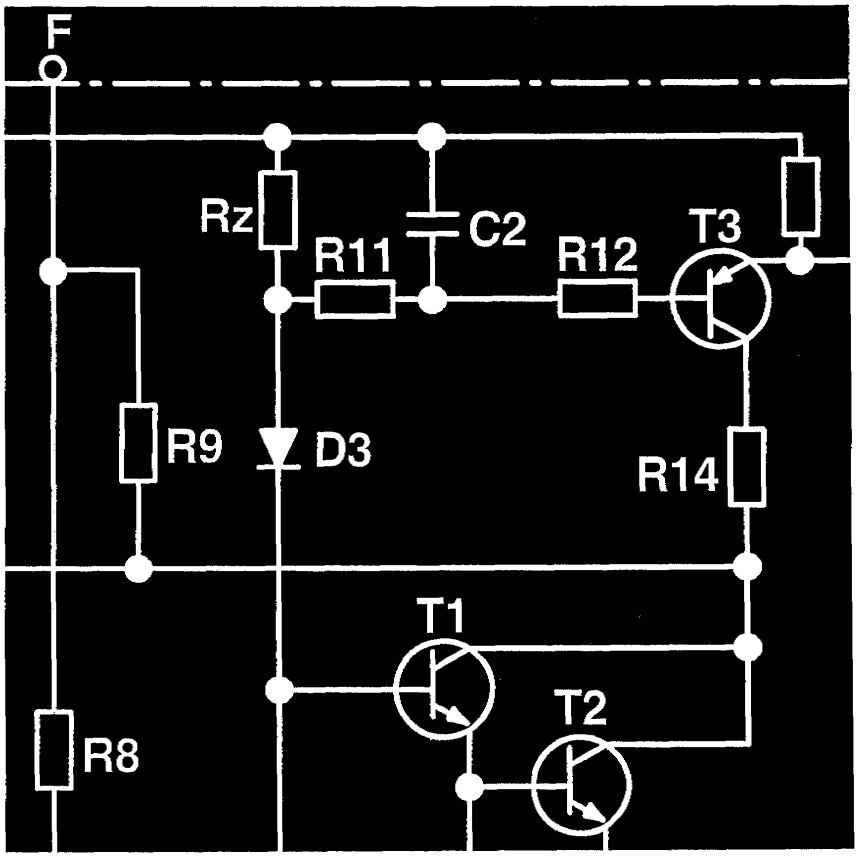


1994

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

Electrical Troubleshooting Manual

Vehicles Produced 9/93 to 8/94

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BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

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

SCHEMATICS MODEL YEAR 1994

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

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SCHEMATICS

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

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

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

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

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INDEX

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

Downloaded from www.Manualslib.com manuals search engine

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

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

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Schematics

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

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

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

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

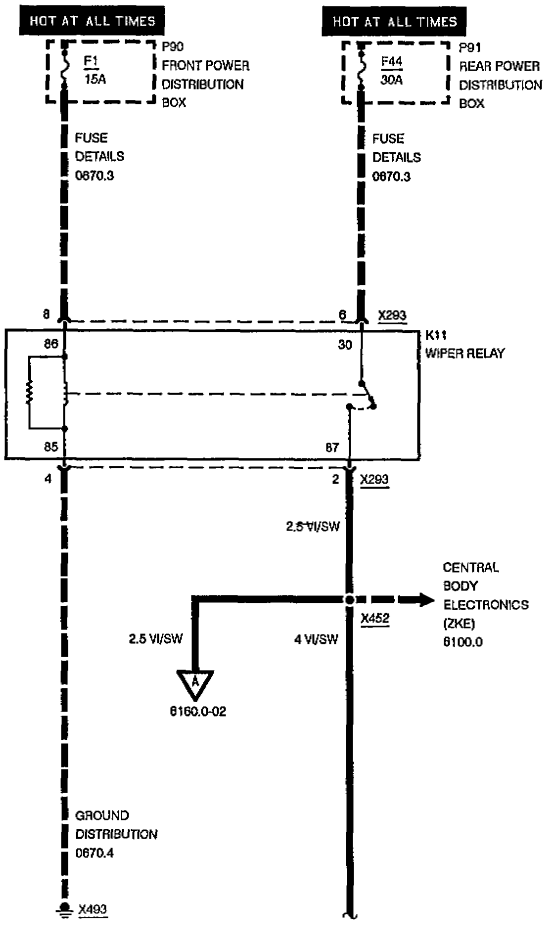
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

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

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

Example

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



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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.

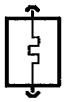
7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.

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.

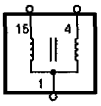
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SYMBOLS


BATTERY


HEATING ELEMENT


VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



IGNITION COIL


CONTROL/POWER ELECTRONICS


FUSE DETAILS


LOUDSPEAKER OR HORN


VARIABLE RESISTOR
RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


HALL EFFECT SENSOR


FUSIBLE LINK


LIGHT


DIODE
CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


RADIO


THERMO SWITCH


PERMANENT MAGNET MOTOR
ONE SPEED


ZENER DIODE
TO REGULATE VOLTAGE



TRANSISTORIZED SWITCH

SOLENOID


PERMANENT MAGNET MOTOR
TWO SPEEDS


LIGHT EMITTING DIODE



INDUCTIVE SENSOR


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID


KNOCK SENSOR

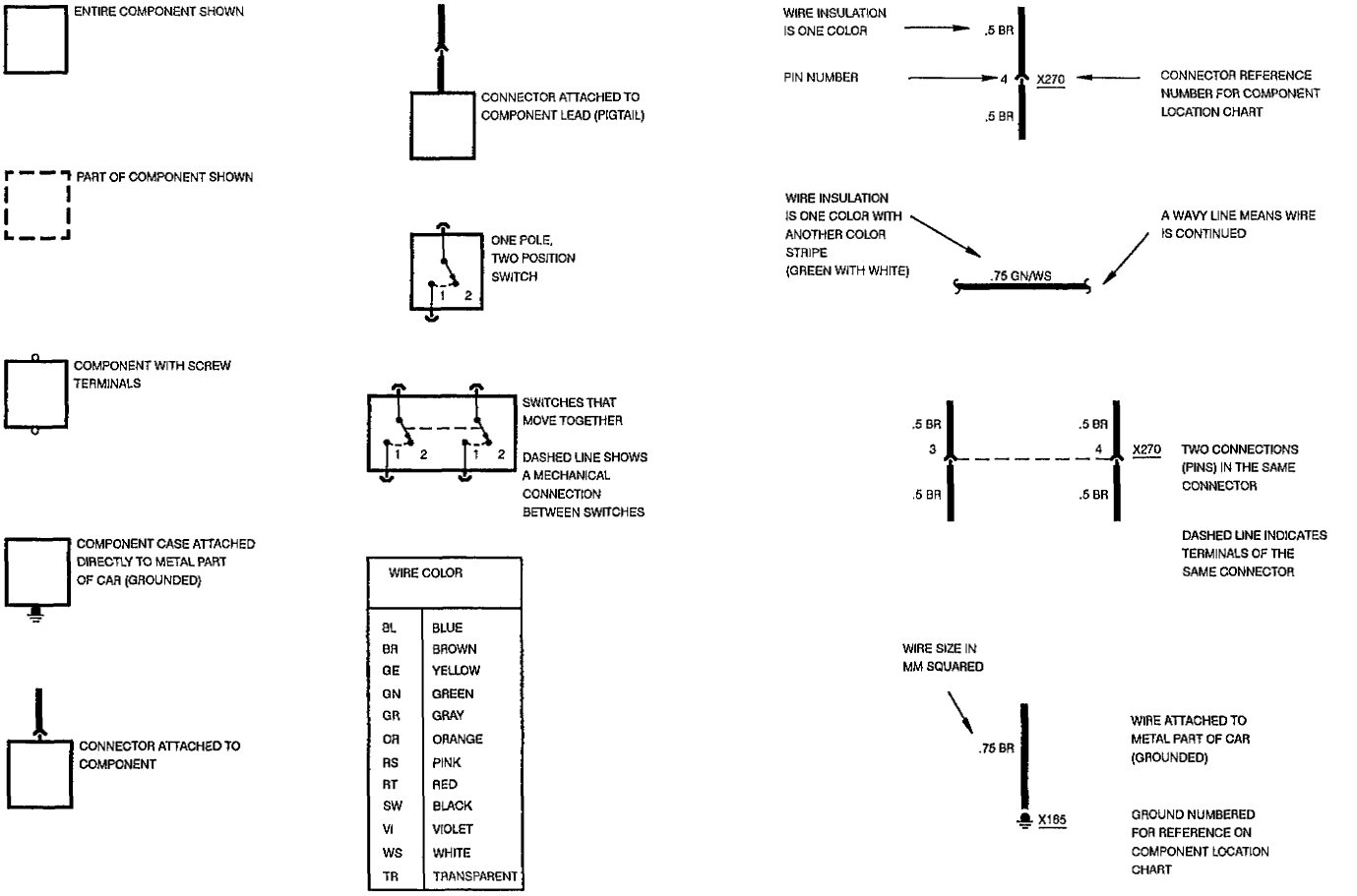

OXYGEN SENSOR



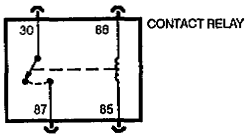
VEHICLE SPEED SENSOR

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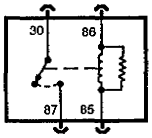
SYMBOLS



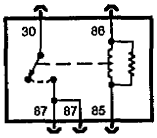
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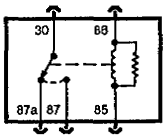
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

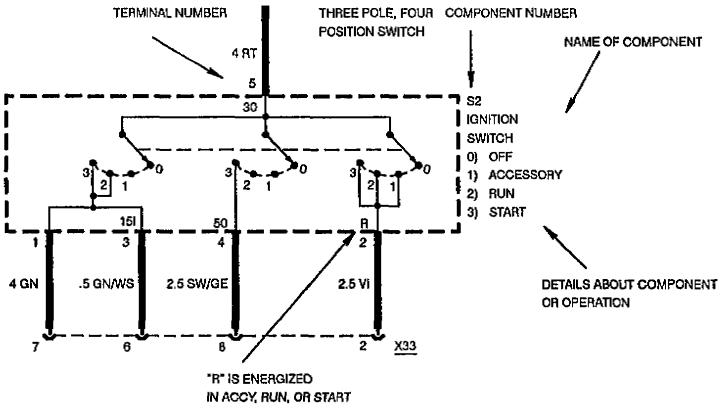


CONTACT RELAY WITH TWO OUTPUTS



CHANGEOVER RELAY WITH TWO OUTPUTS

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



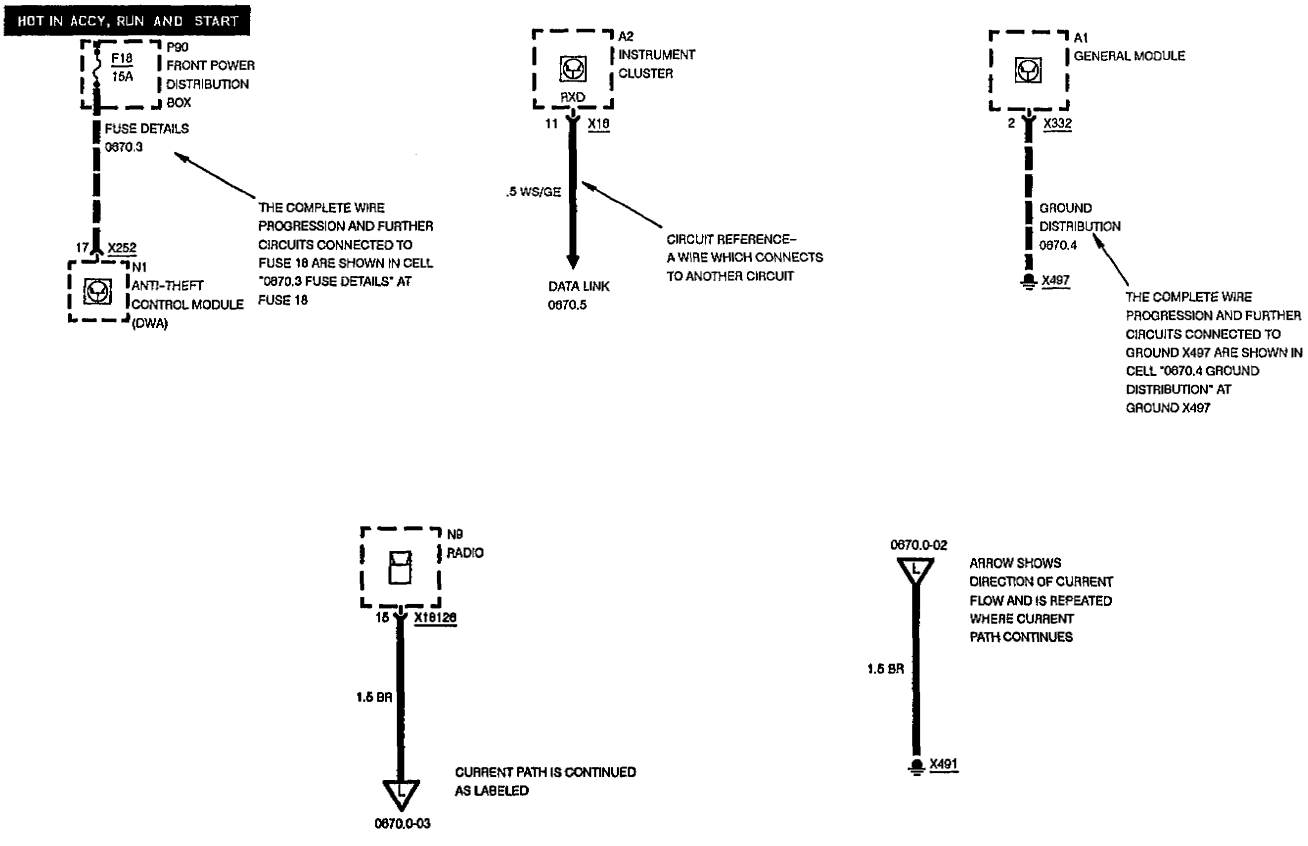
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND



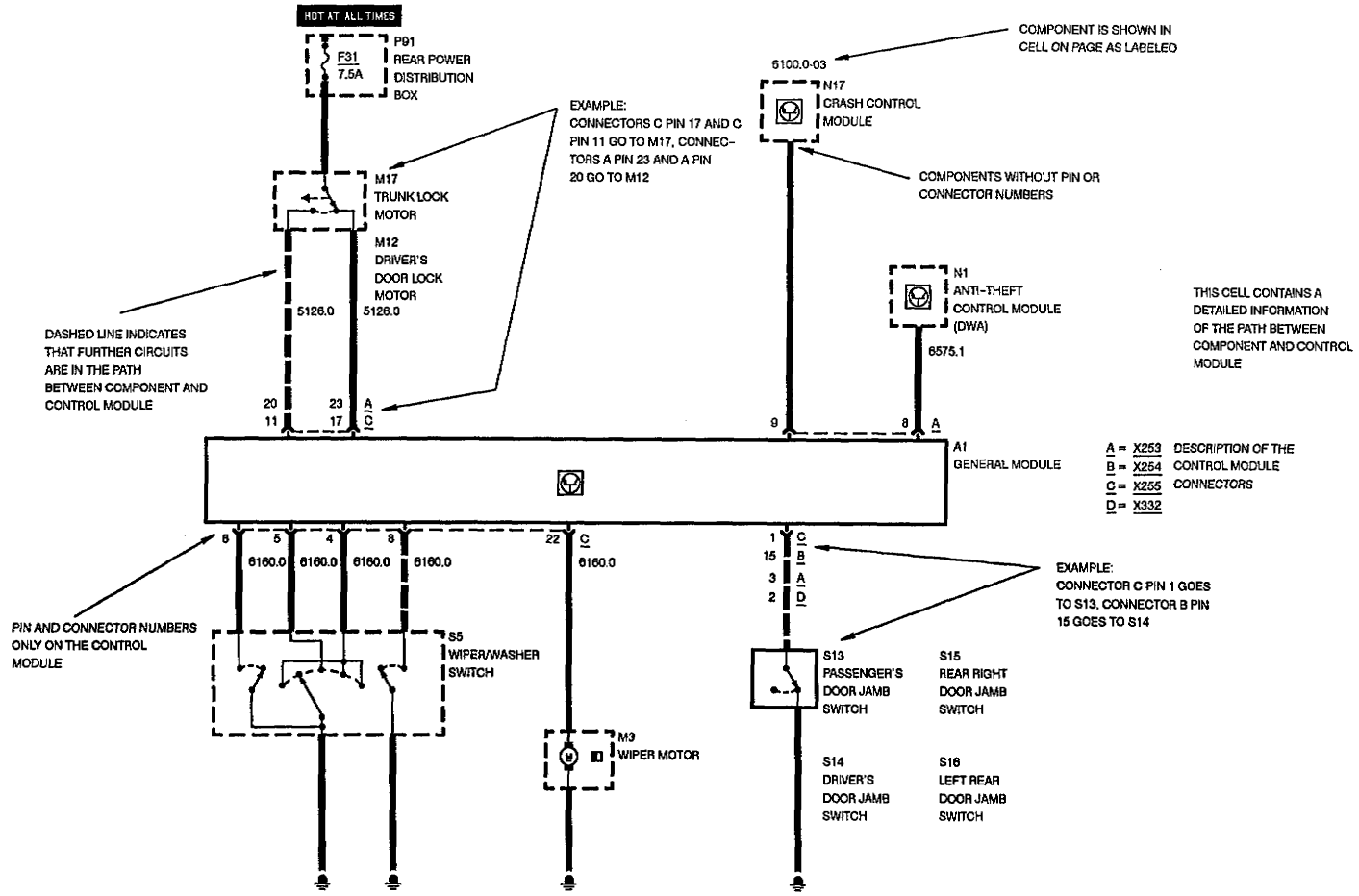
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

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SYMBOLS



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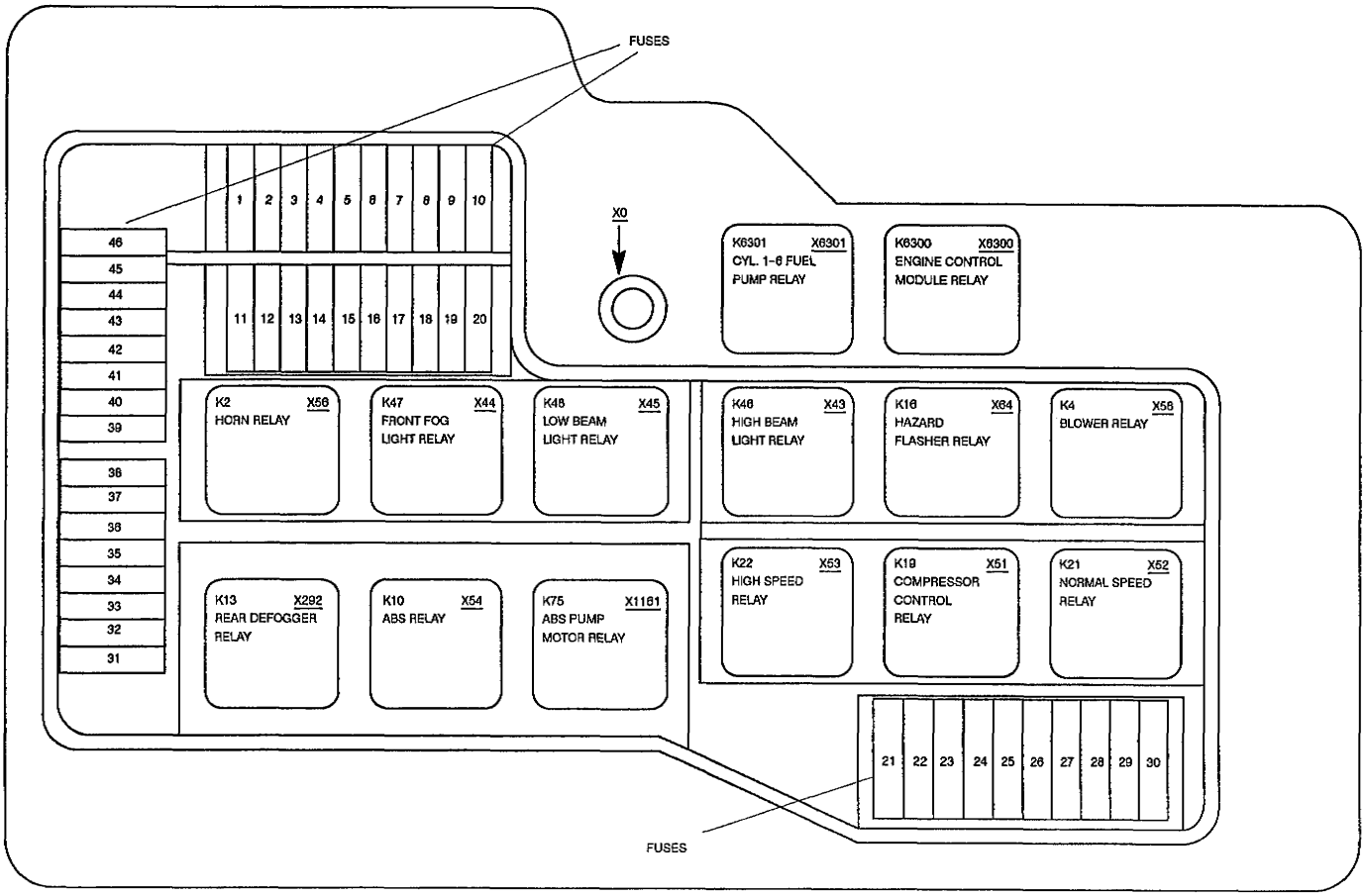


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POWER DISTRIBUTION CHART

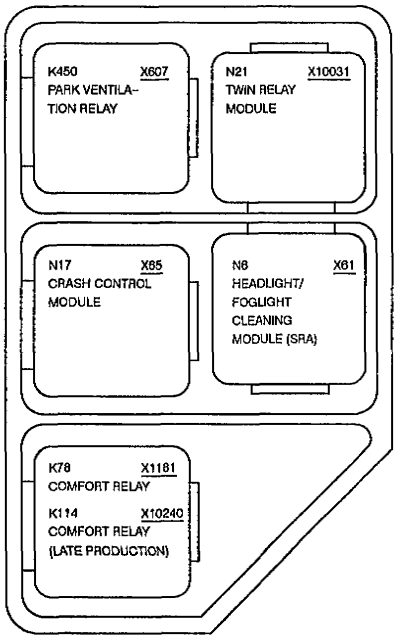
P90 FRONT POWER DISTRIBUTION BOX



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POWER DISTRIBUTION CHART

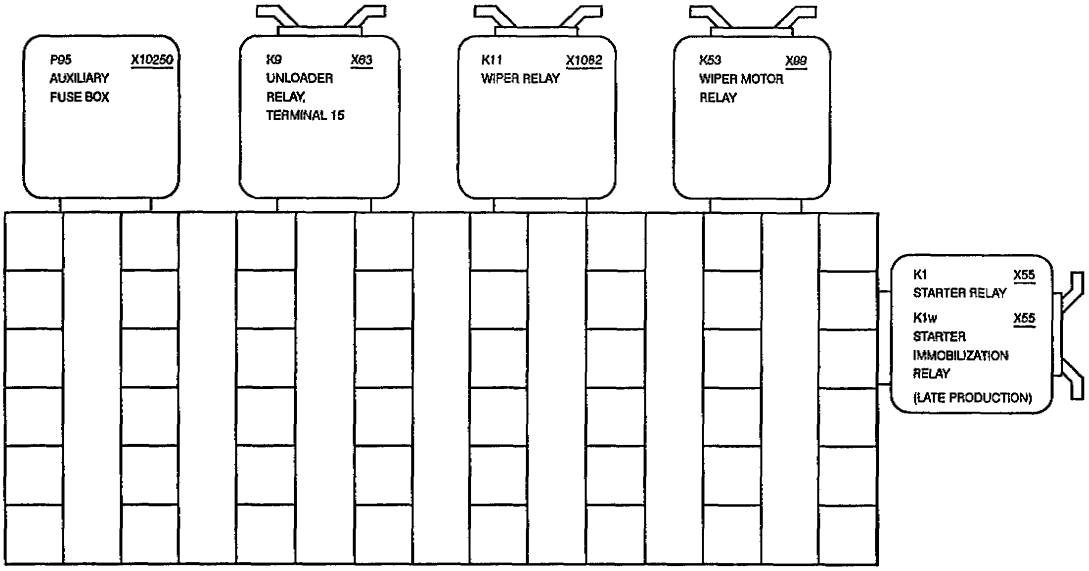
RELAY PANEL UNDER LH SIDE OF DASHBOARD



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POWER DISTRIBUTION CHART

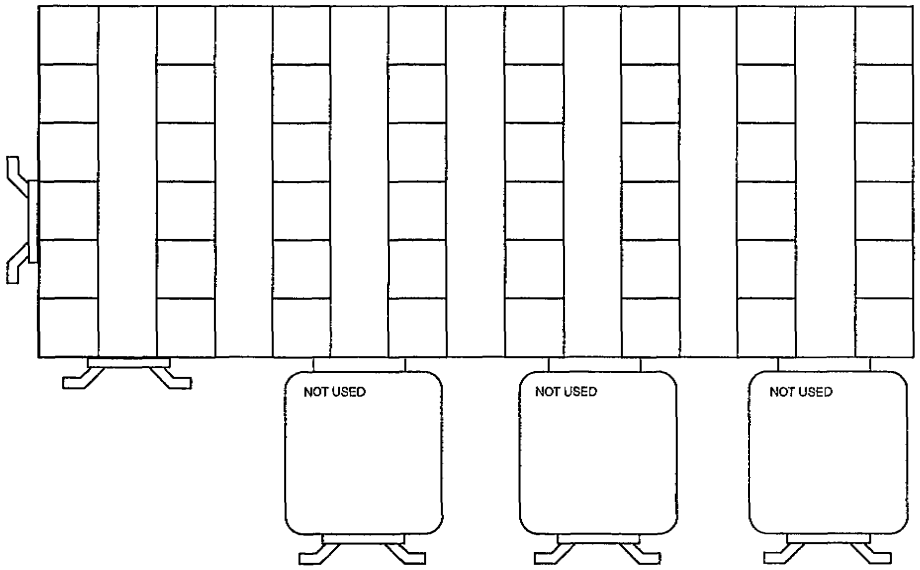
SPLICE PANEL UNDER LH SIDE OF DASHBOARD



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POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



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FUSE CHART

FUSES 1 TO 29

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

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FUSES 1 TO 29

		FUSE NUMBER																										
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		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	7.5A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	5A	7.5A
6133.0	HORN								●																					
6160.1	WIPER/WASHER MODULE (WWM)																													
6167.1	HEADLIGHT WASHER (SRA)			●																										
6169.0	WINDSHIELD WASHER JET HEATERS																								●					
6211.0	INSTRUMENT CLUSTER															●								●				●		
6213.2	MULTI-FUNCTION CLOCK																							●			●	●		
6214.0	ON-BOARD DISPLAY																							●						
6300.0	LIGHT SWITCH DETAILS																						●			●				
6312.0	HEADLIGHTS/ FOG LIGHTS											●	●			●		●						●		●				●
6313.0	TURN/HAZARD LIGHTS																							●						
6314.0	PARK/TAIL LIGHTS																									●				
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																													
6322.0	BACK UP LIGHTS																										●			
6325.0	BRAKE LIGHTS																													
6330.3	INTERIOR LIGHTS							●																						
6332.1	GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/ CHARGING SOCKET/CIGAR LIGHTER																													
6350.0	CRASH CONTROL MODULE																													
6412.5	PARK VENTILATION WITH IHKR																				●									
6424.0	REAR WINDOW DEFOGGER						●																	●						
6450.4	INTEGRATED CLIMATE REGULATION (IHKR E36)																●				●			●						

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FUSES 1 TO 29

		FUSE NUMBER																										
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		30A	15A	30A	15A	30A	20A	5A	15A	20A	30A	7.5A	7.5A	5A	30A	7.5A	5A	10A	15A	30A	30A	5A	5A	5A	10A	5A	10A	5A	6A	7.5A
6510.0	RADIO/ CD PLAYER (PROVISIONS)									●																				
6510.1	RADIO/HIFI									●																				
6561.0	CELLULAR TELEPHONE (PROVISIONS)																													
6571.0	CRUISE CONTROL (TEMPOMAT)																												●	
6575.2	ANTI-THEFT SYSTEM (ALPINE)																													
6581.2	ON-BOARD COMPUTER (BC V)											●	●											●				●		

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BMW 3

FUSE CHART

FUSES 30 TO 47

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

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FUSE CHART

FUSES 30 TO 47

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

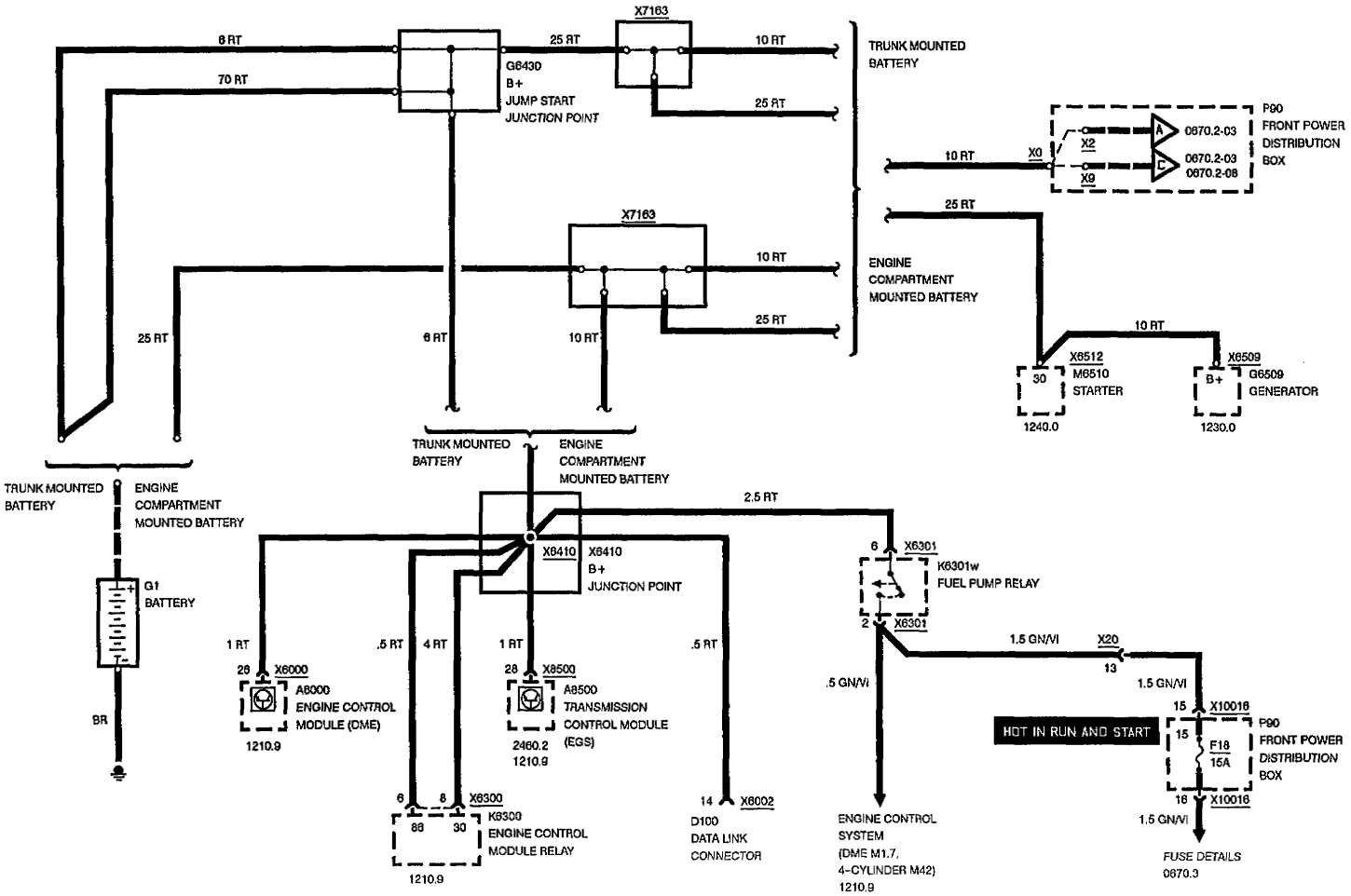
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FUSE CHART

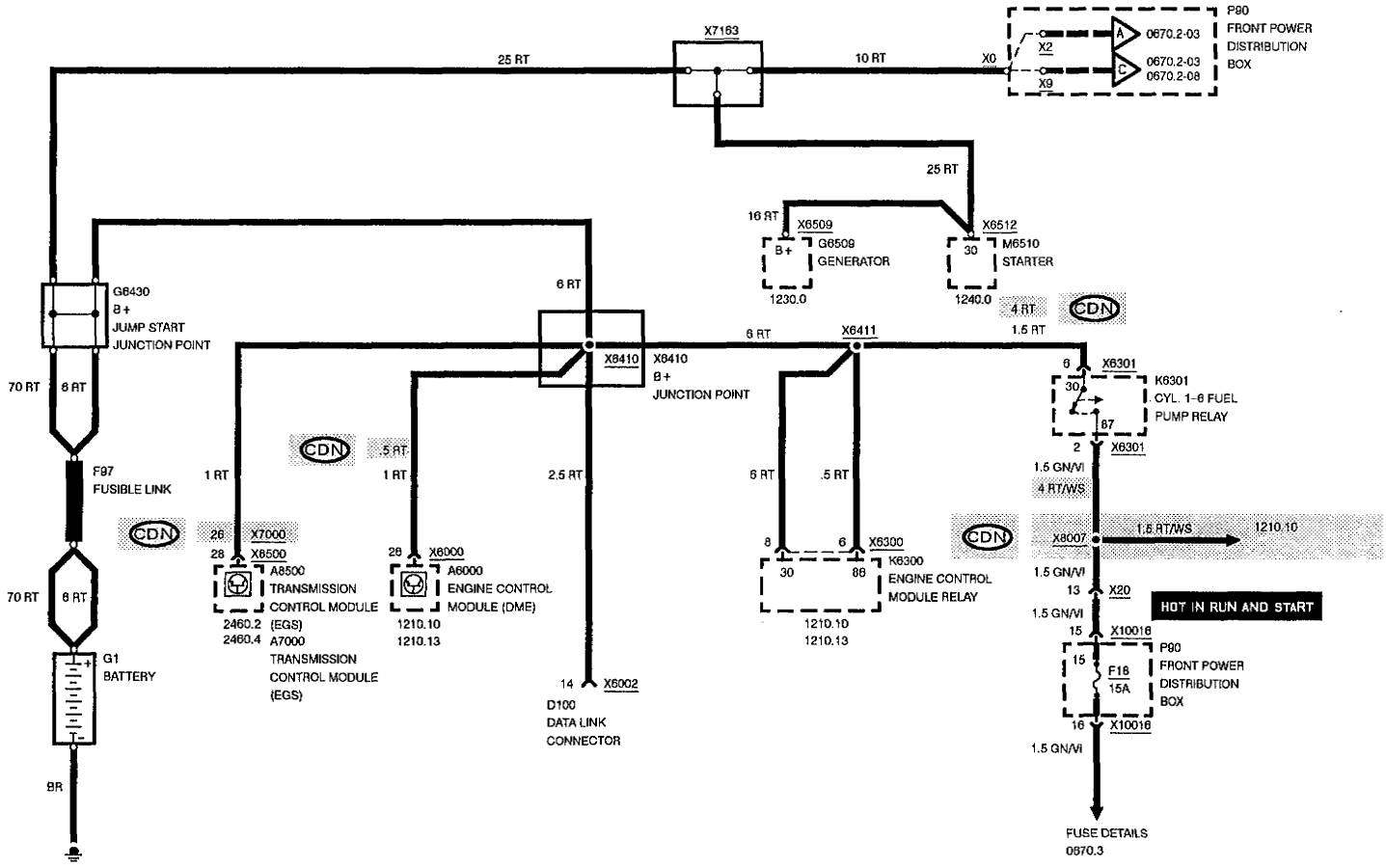
FUSES 30 TO 47

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

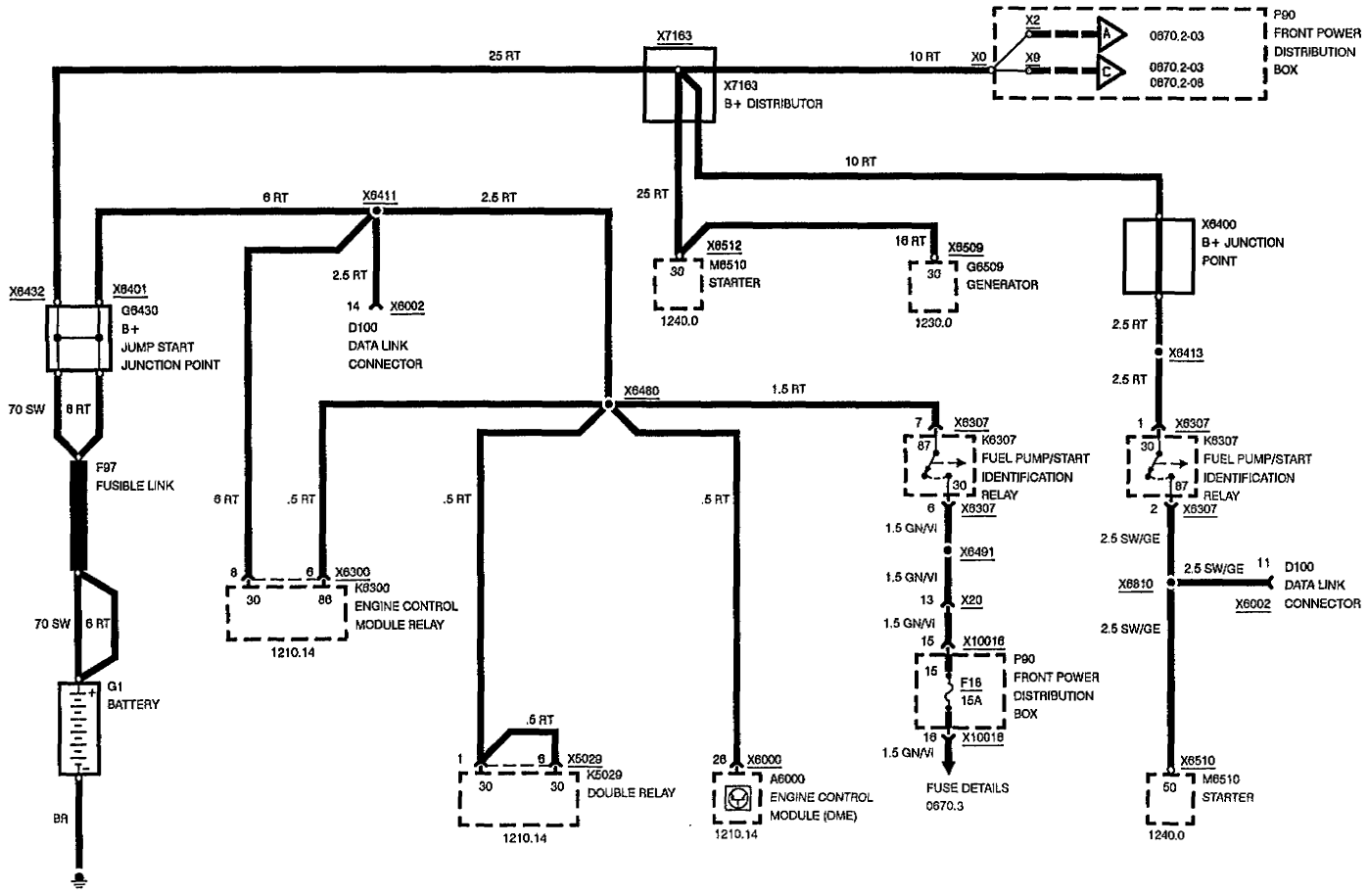
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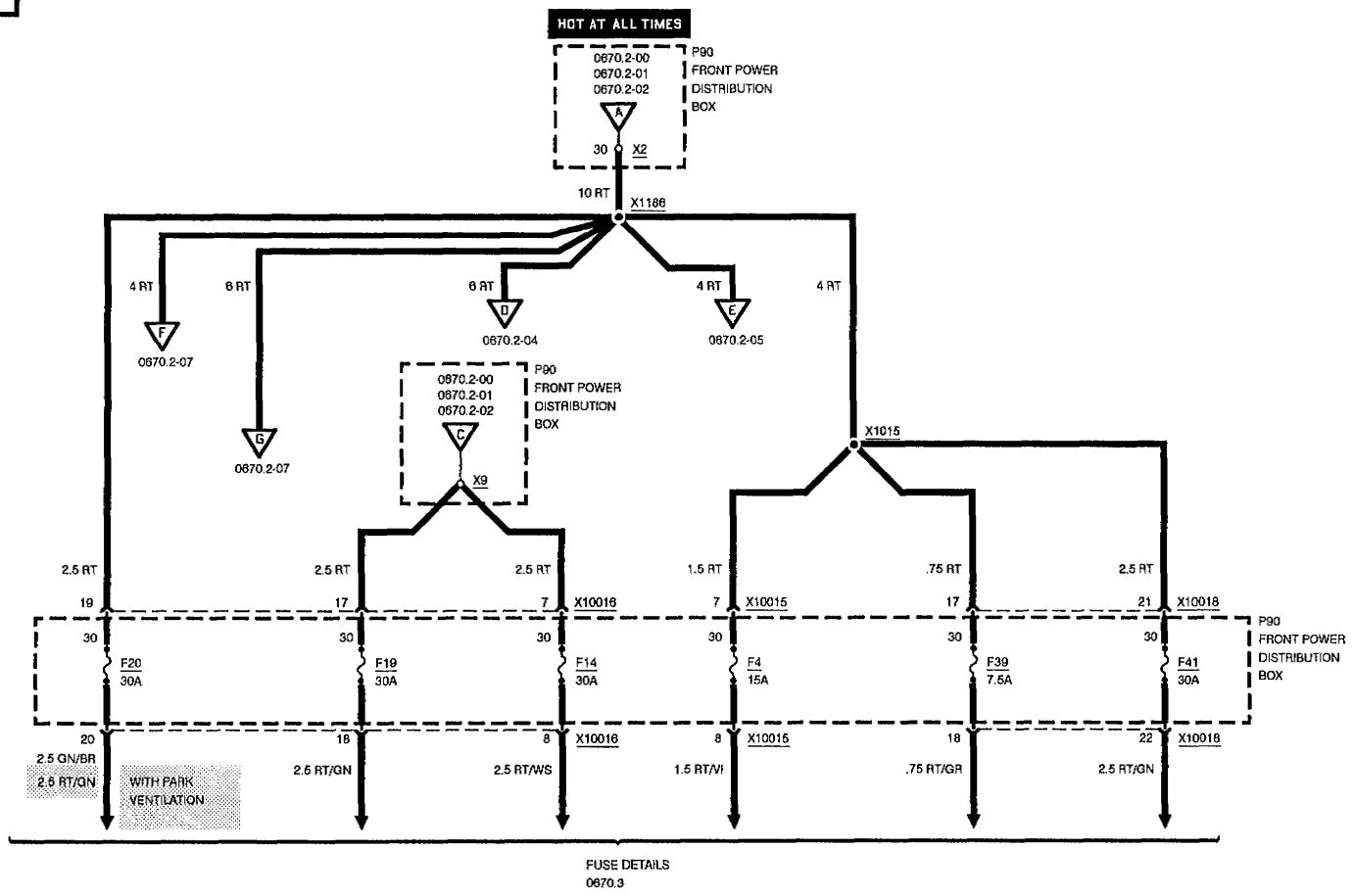


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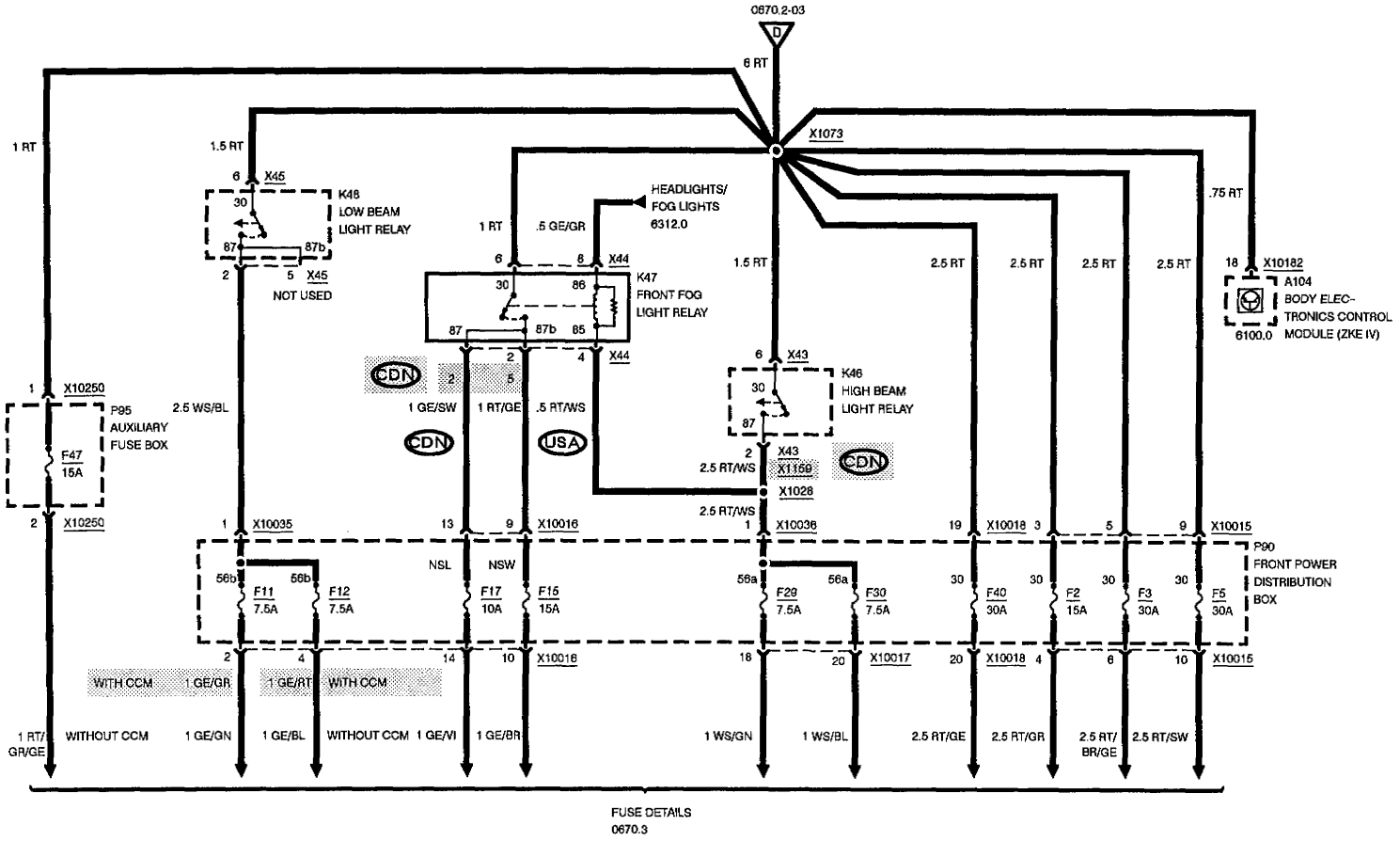
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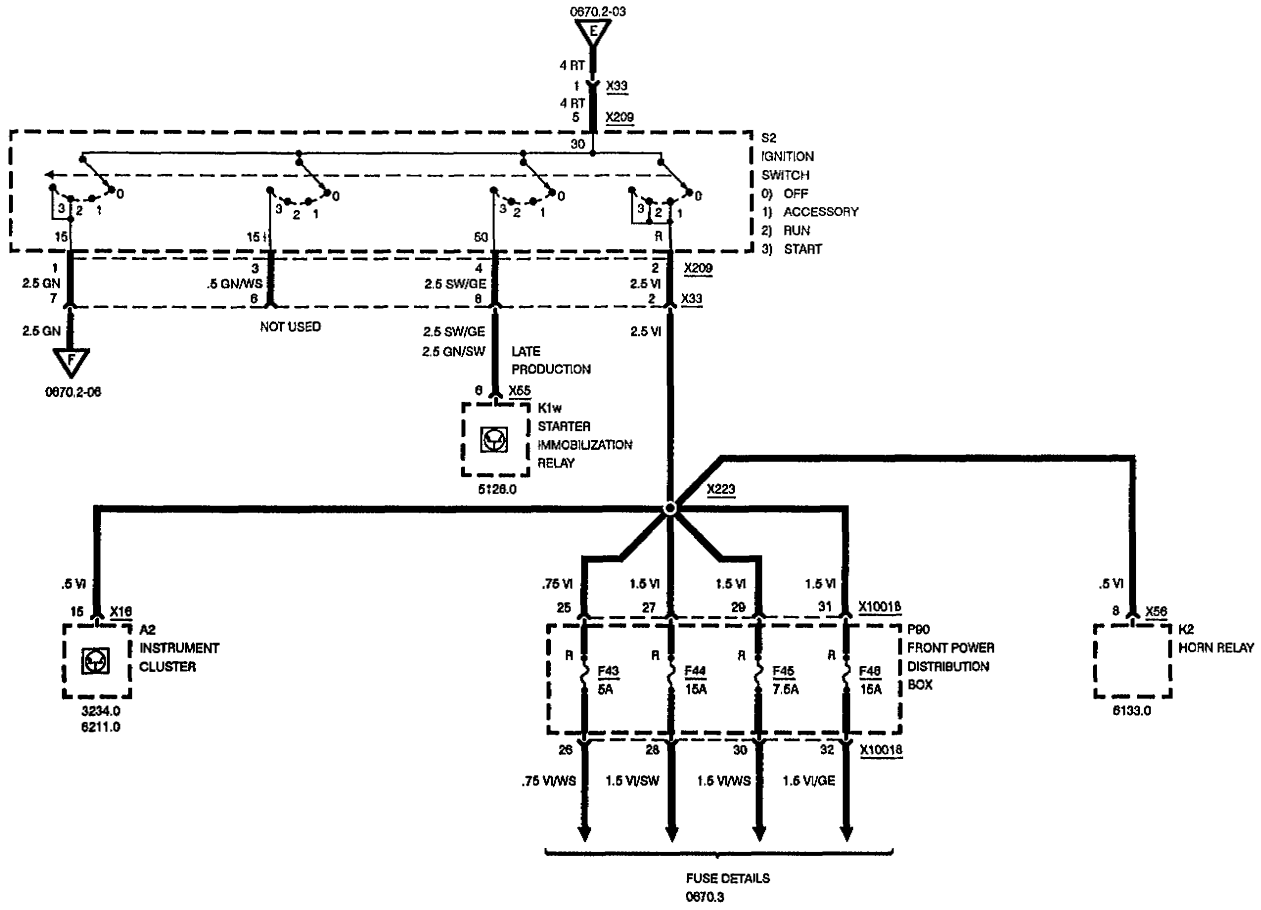
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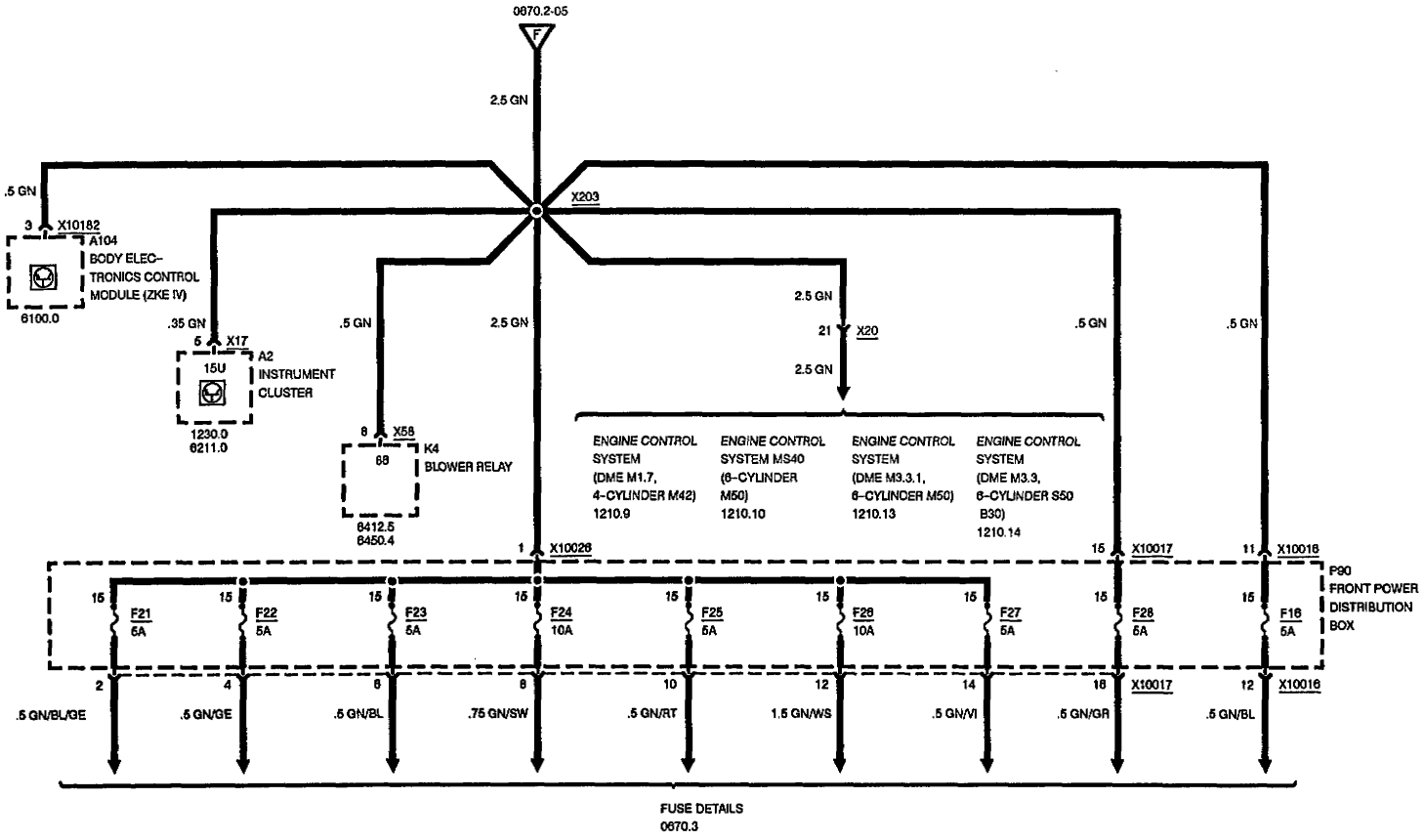
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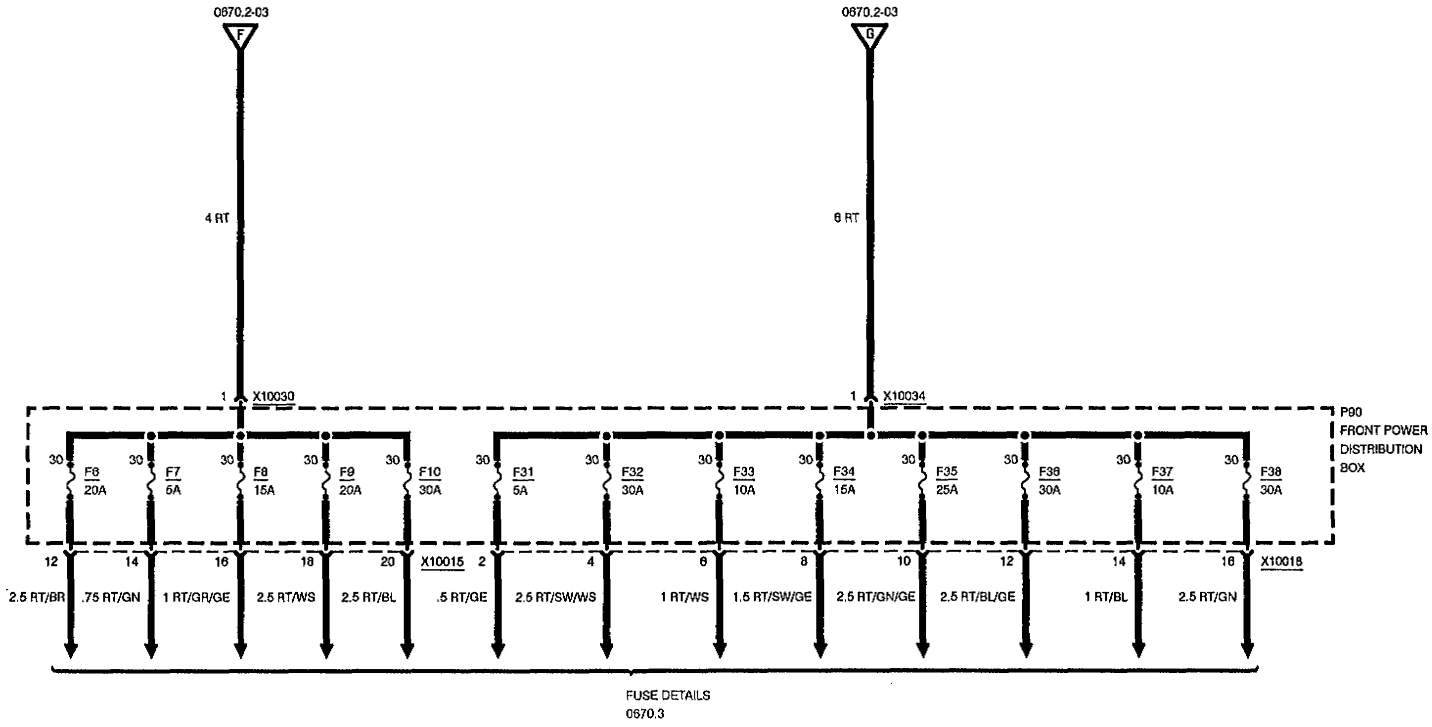
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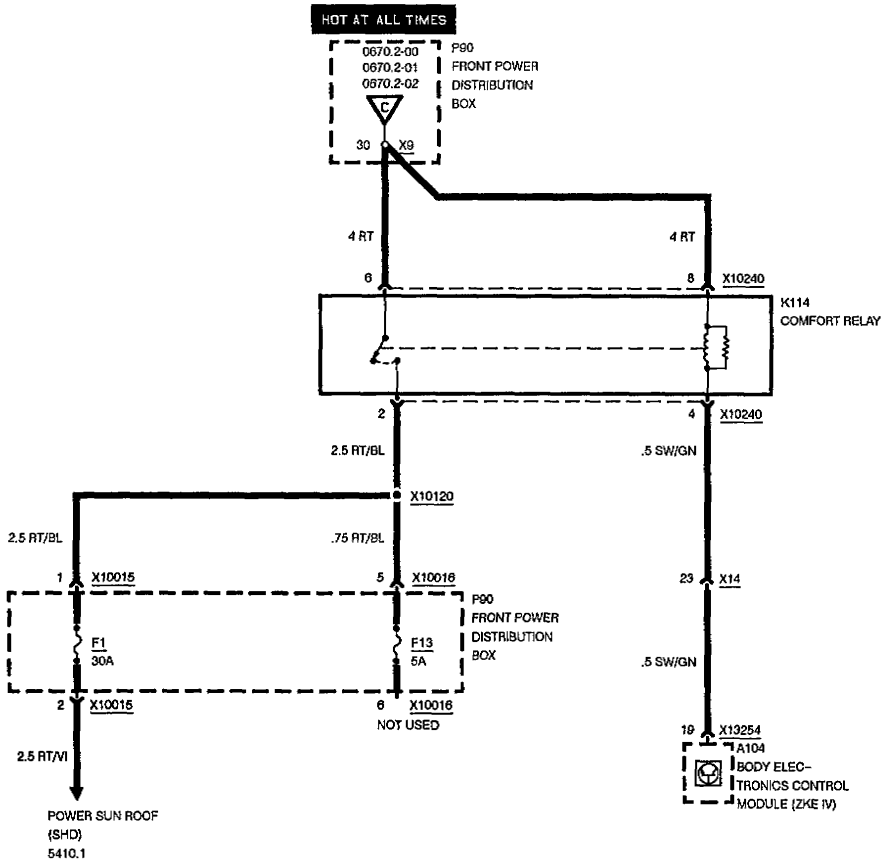


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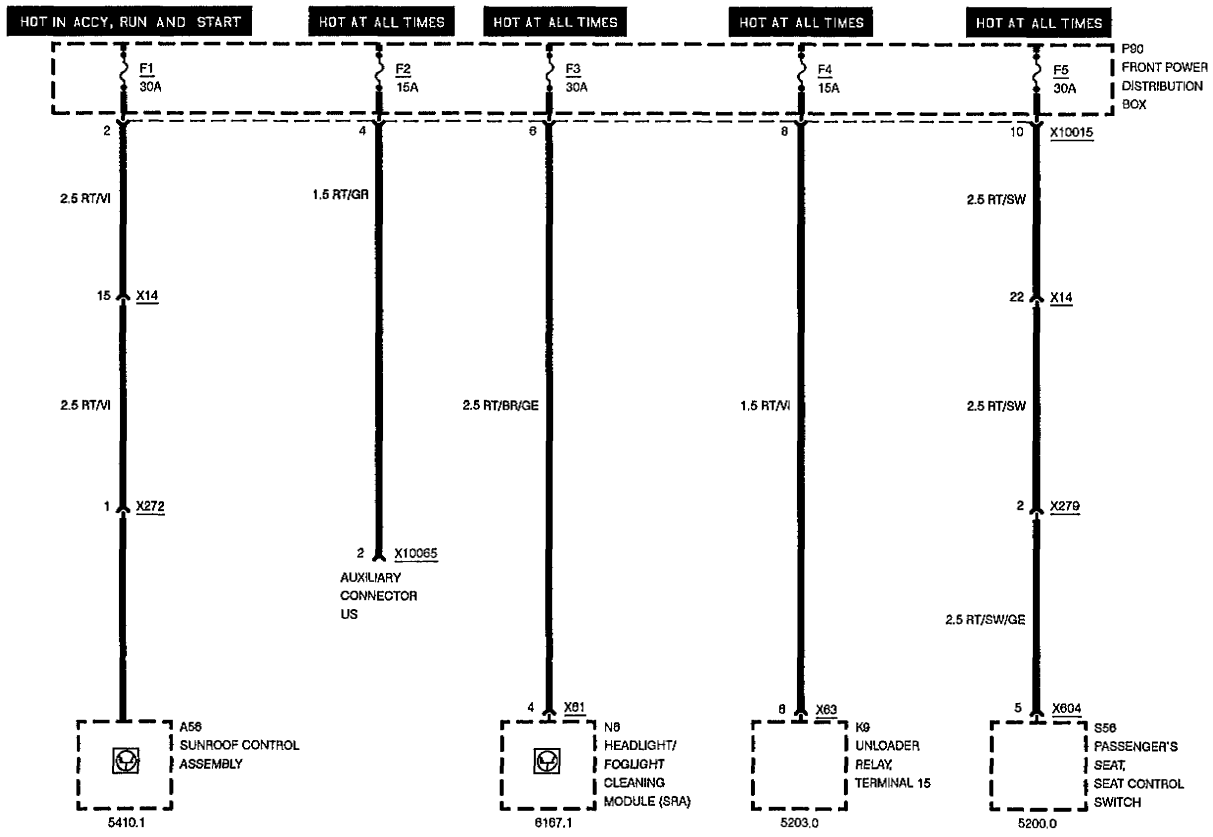
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BMW 3

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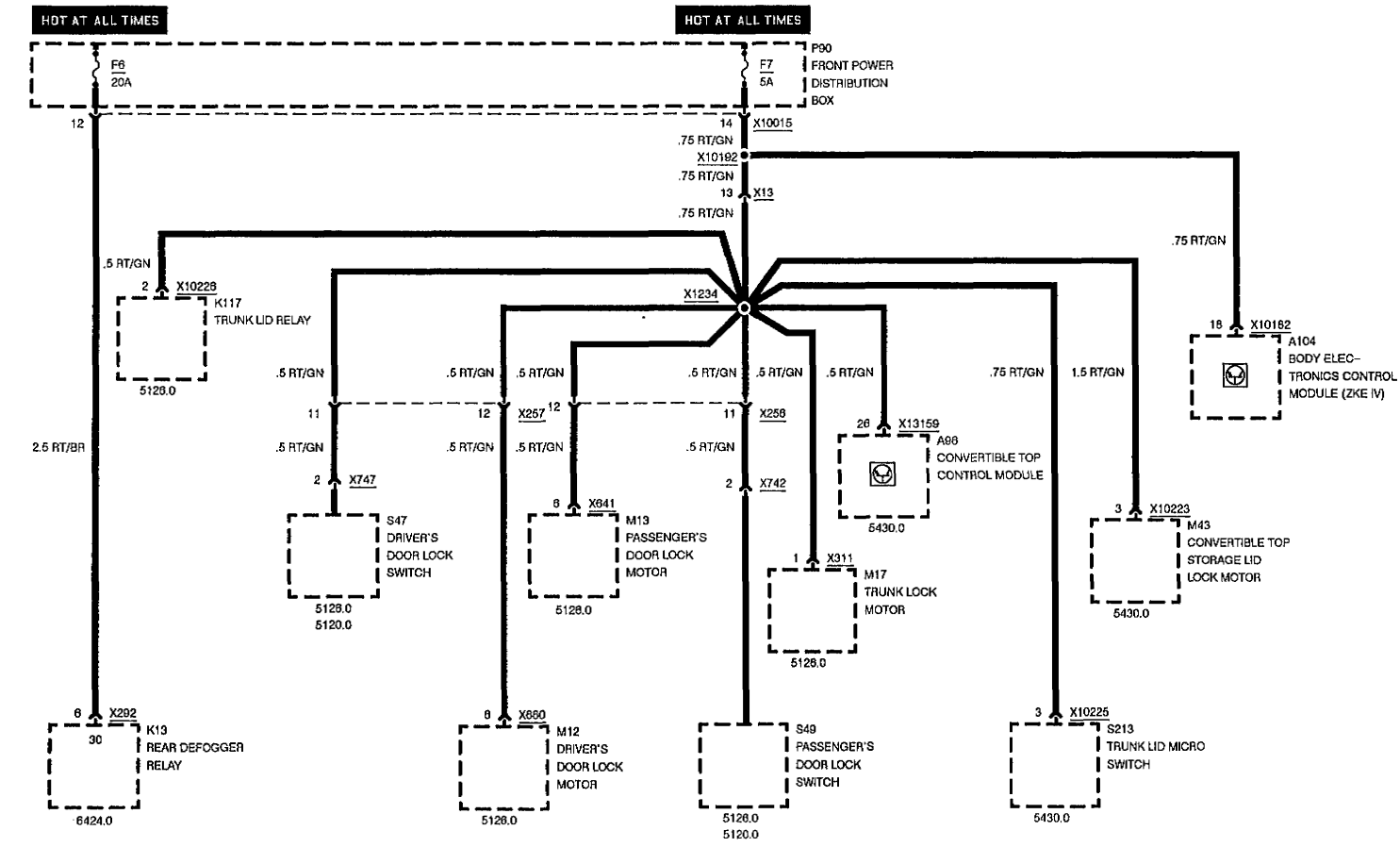


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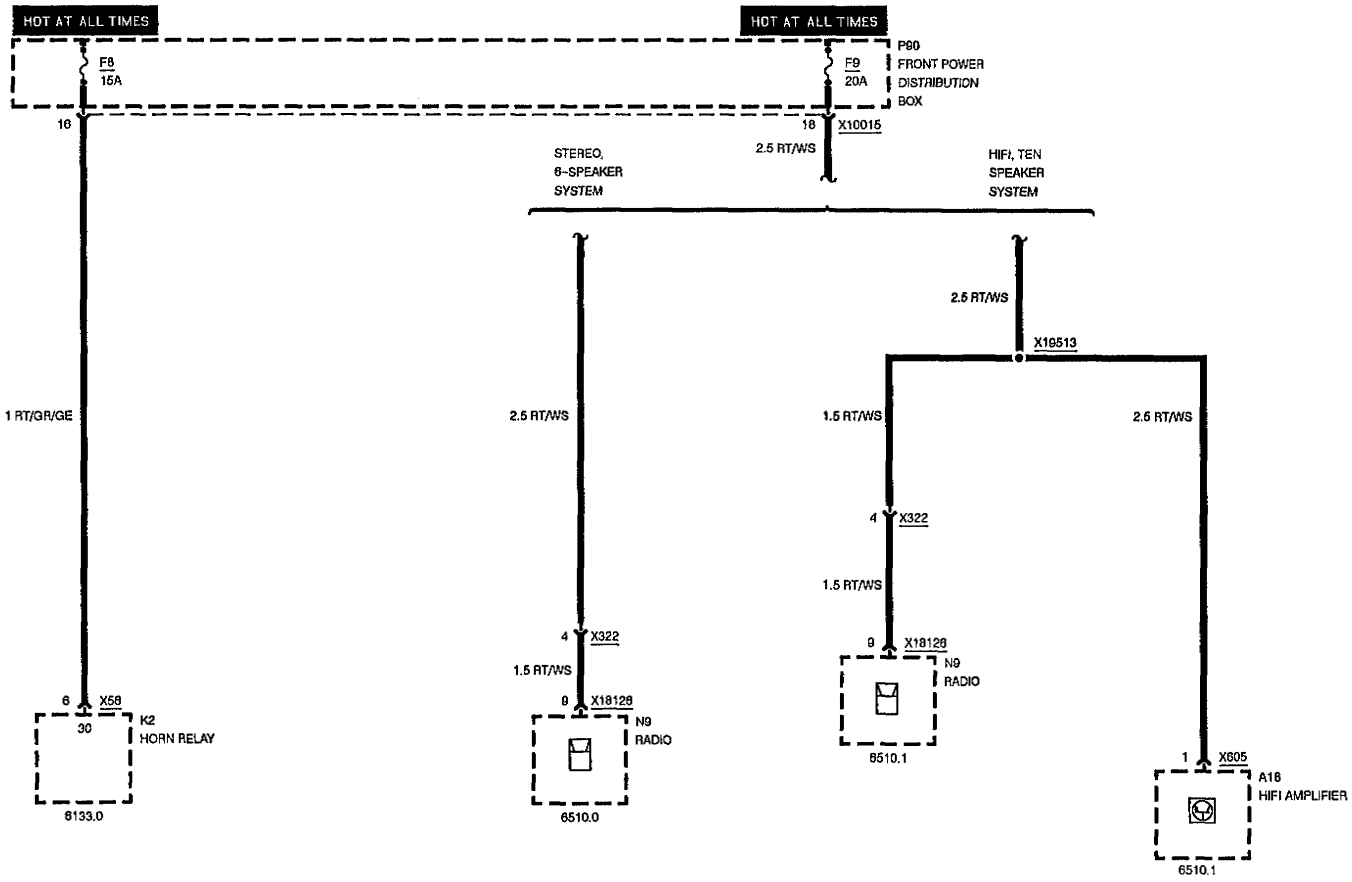
FUSES 6 AND 7



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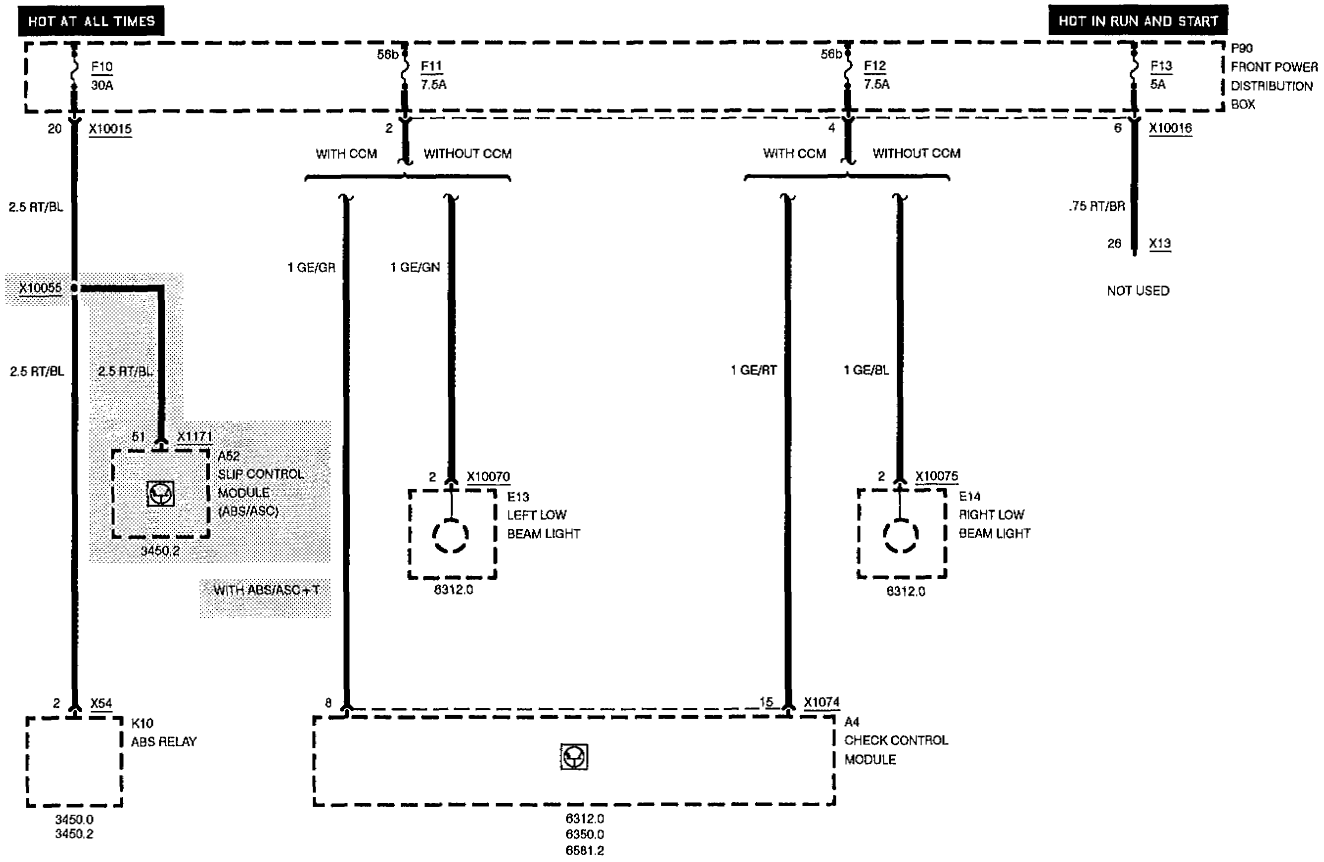
FUSES 8 AND 9



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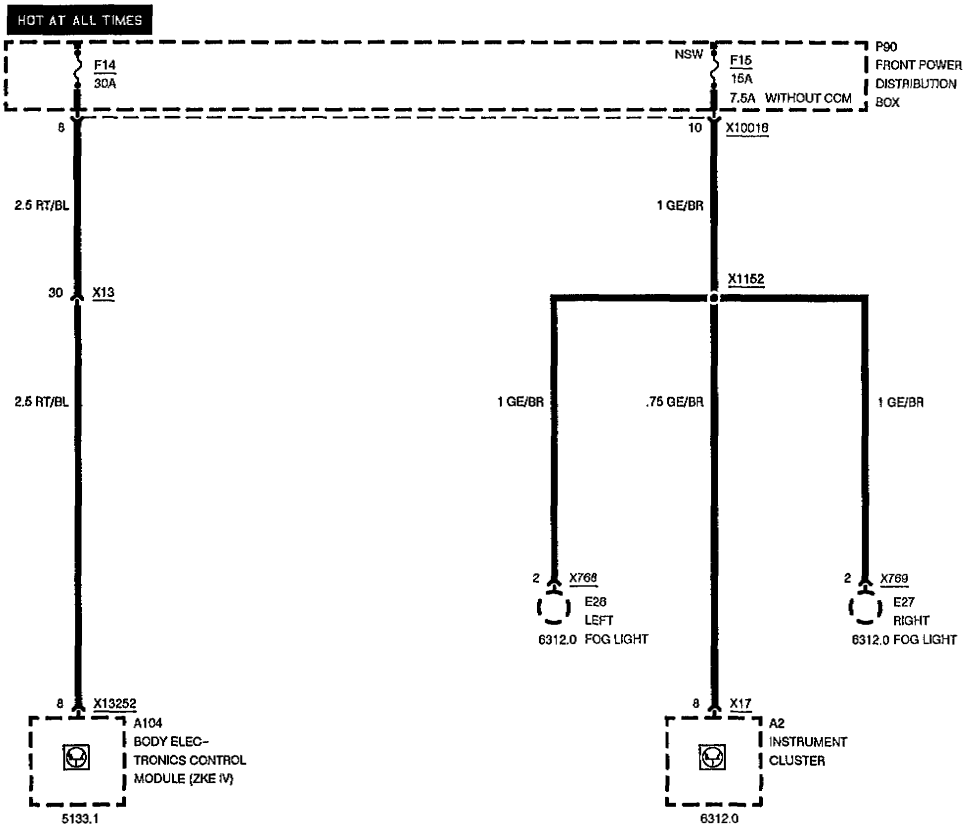
FUSES 10, 11, 12, AND 13



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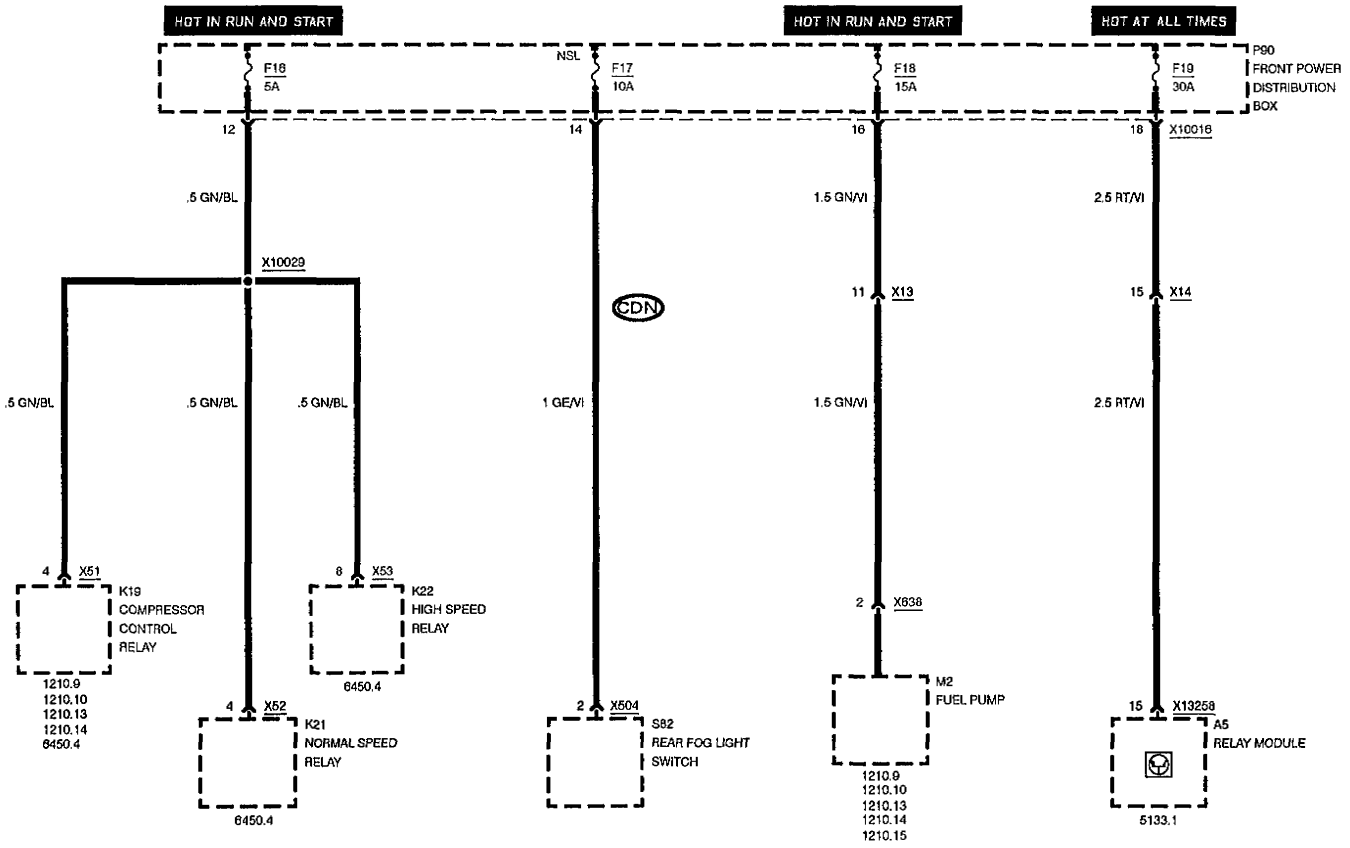
FUSES 14 AND 15



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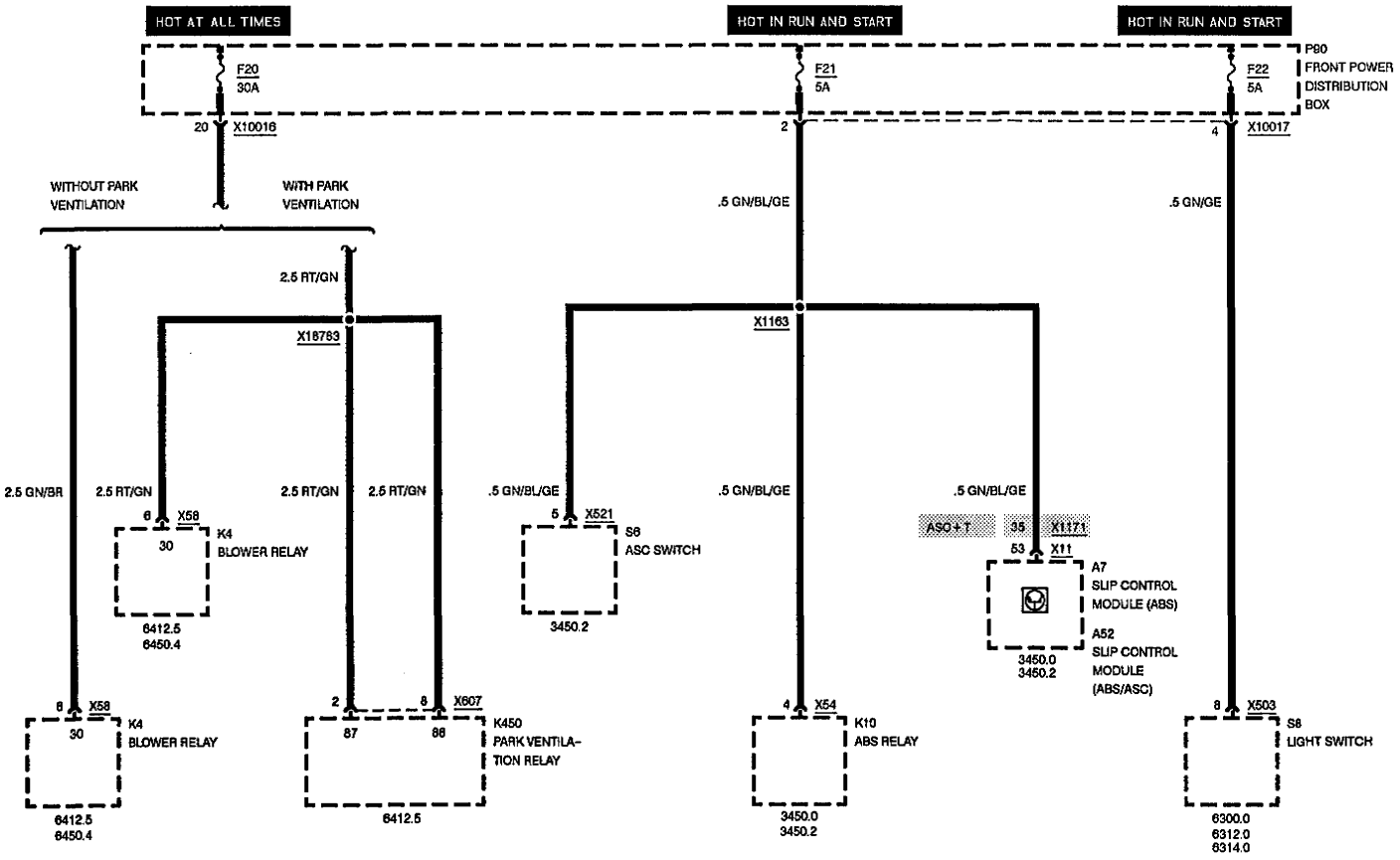
FUSES 16, 17, 18, AND 19



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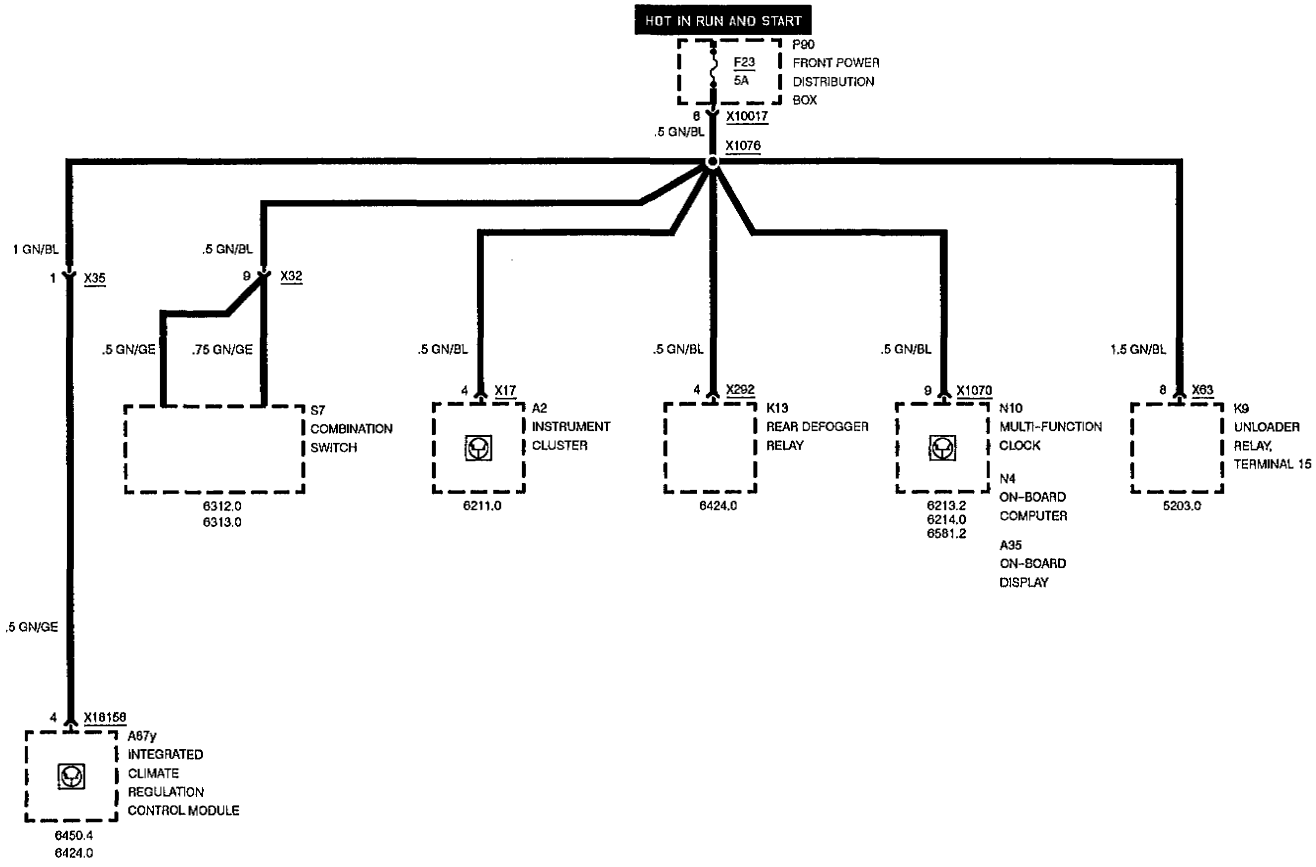
FUSES 20, 21, AND 22



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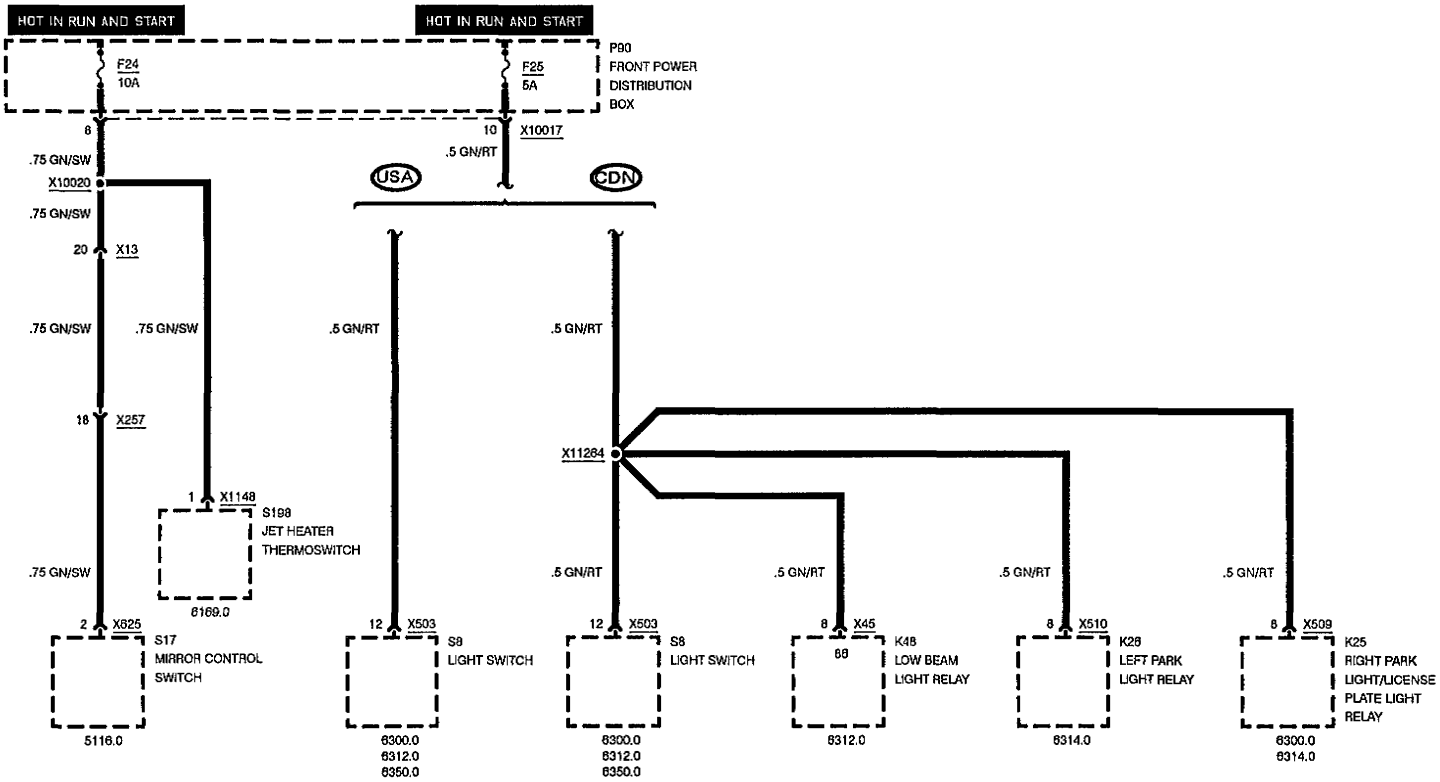
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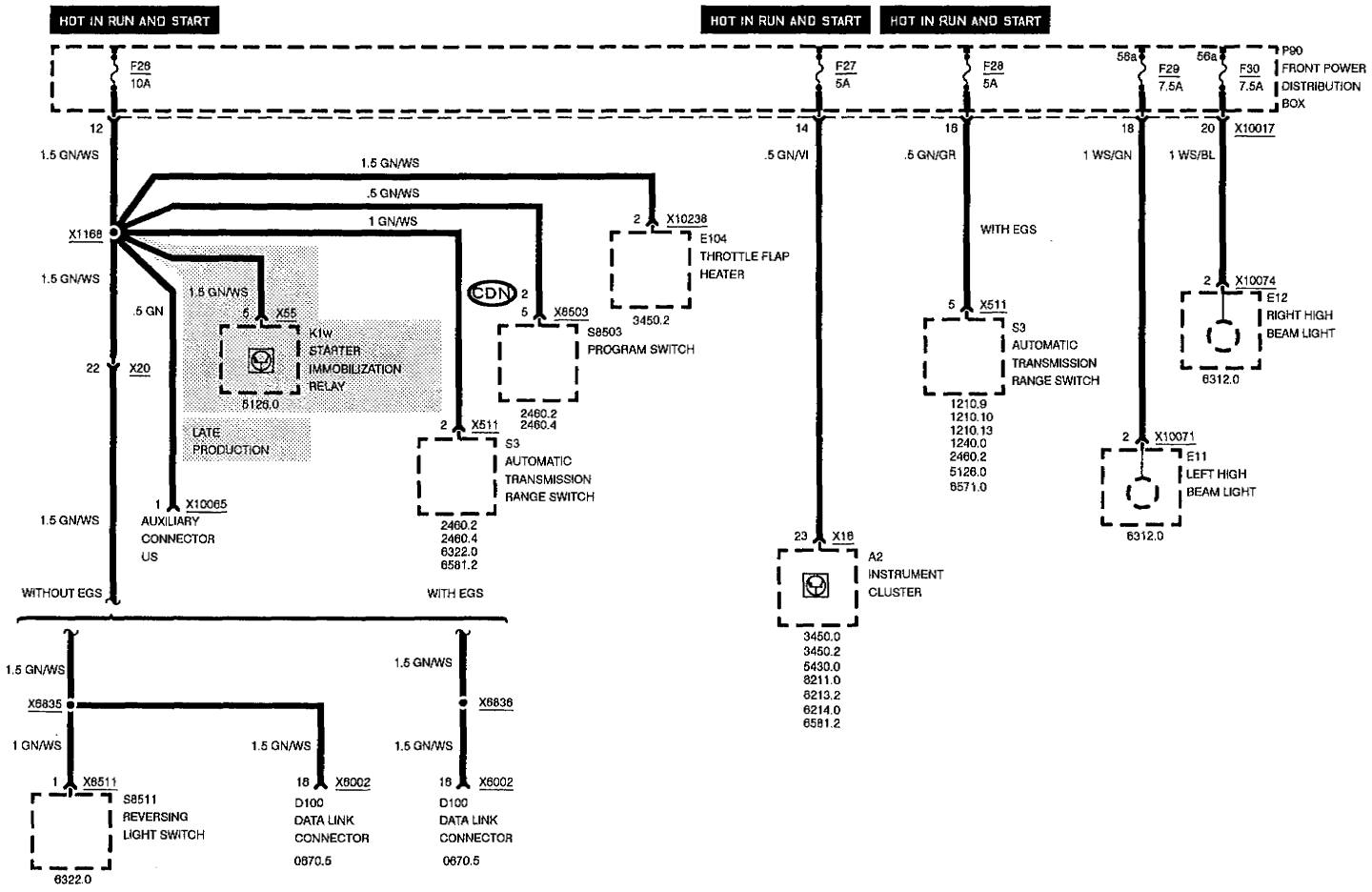
FUSES 24 AND 25



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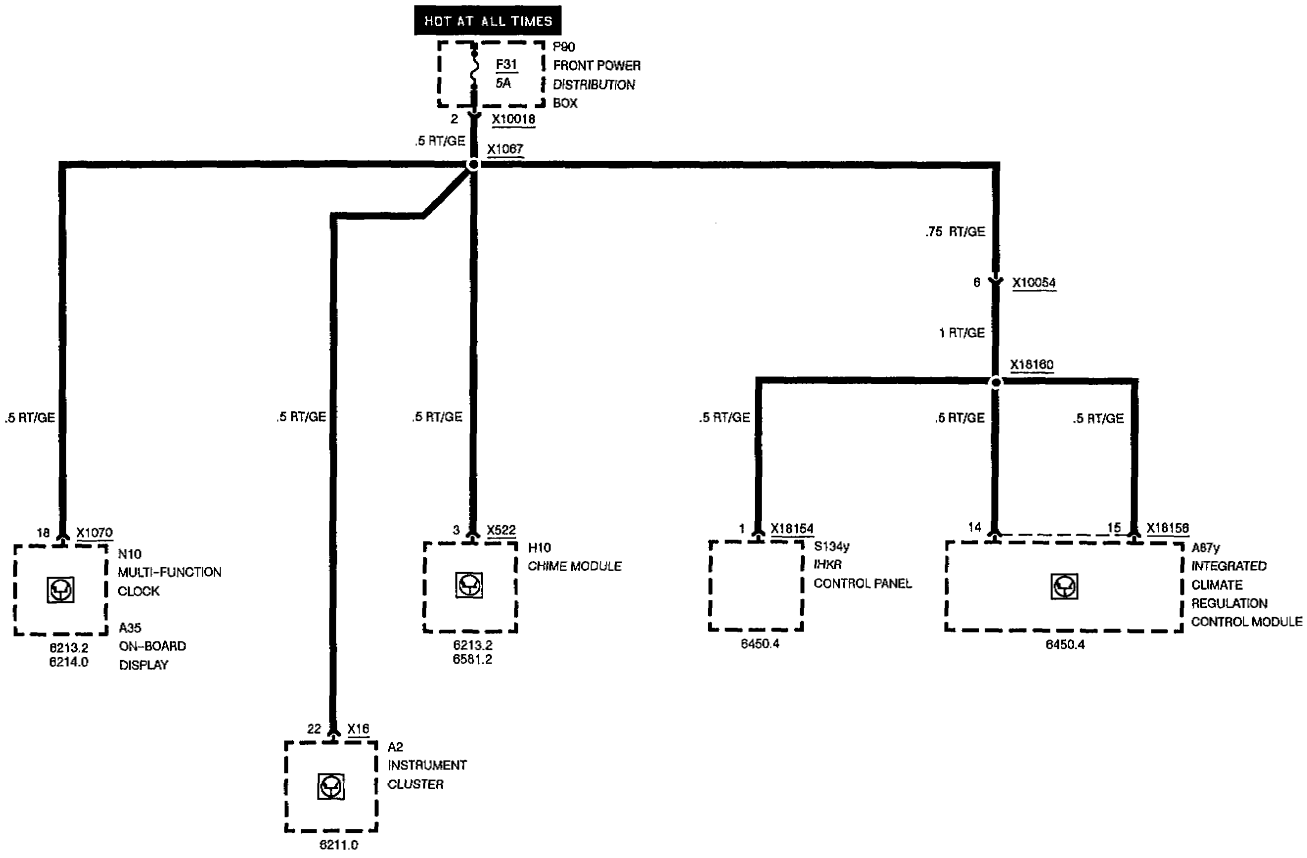
FUSES 26, 27, 28, 29, AND 30



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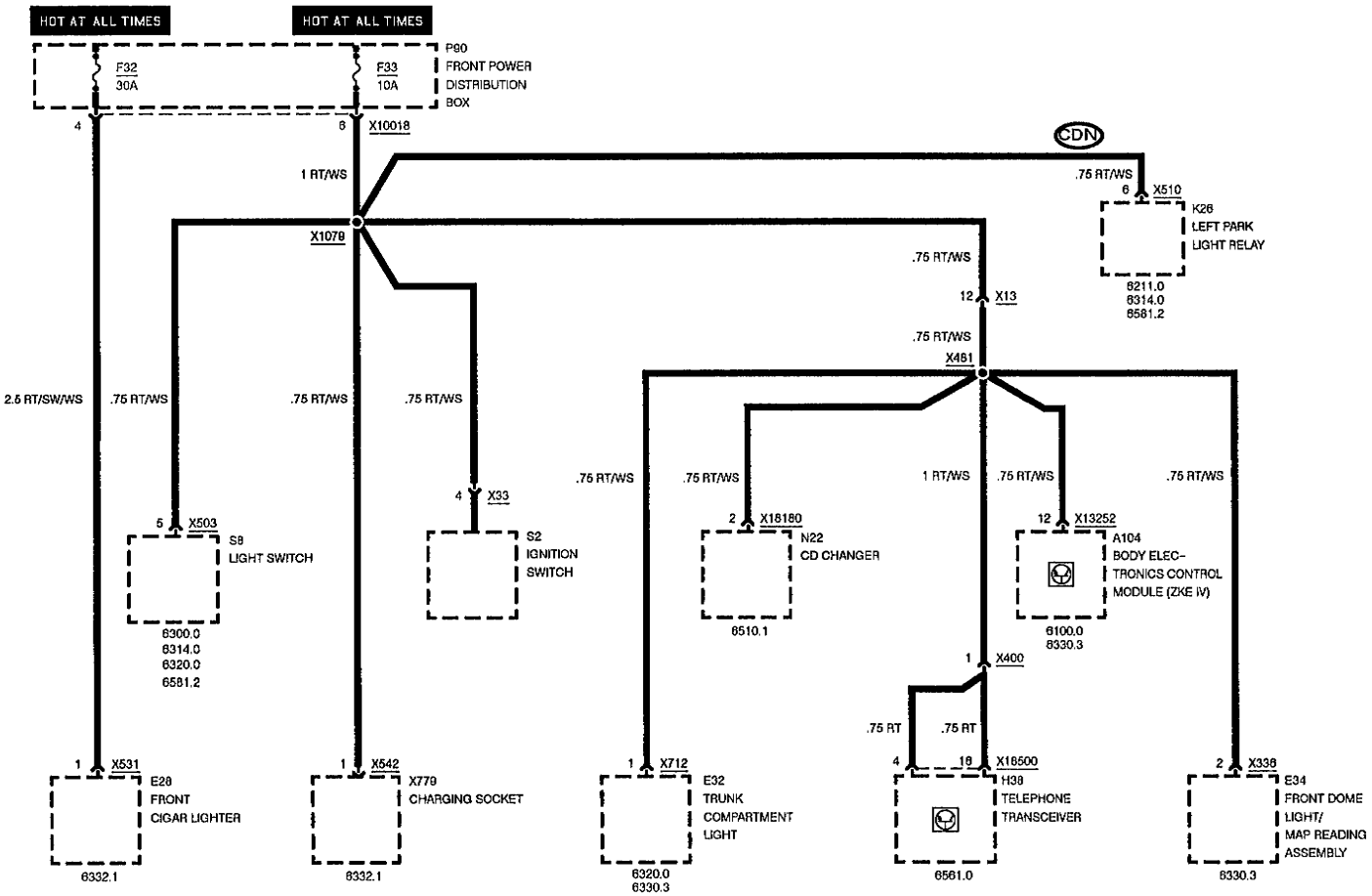
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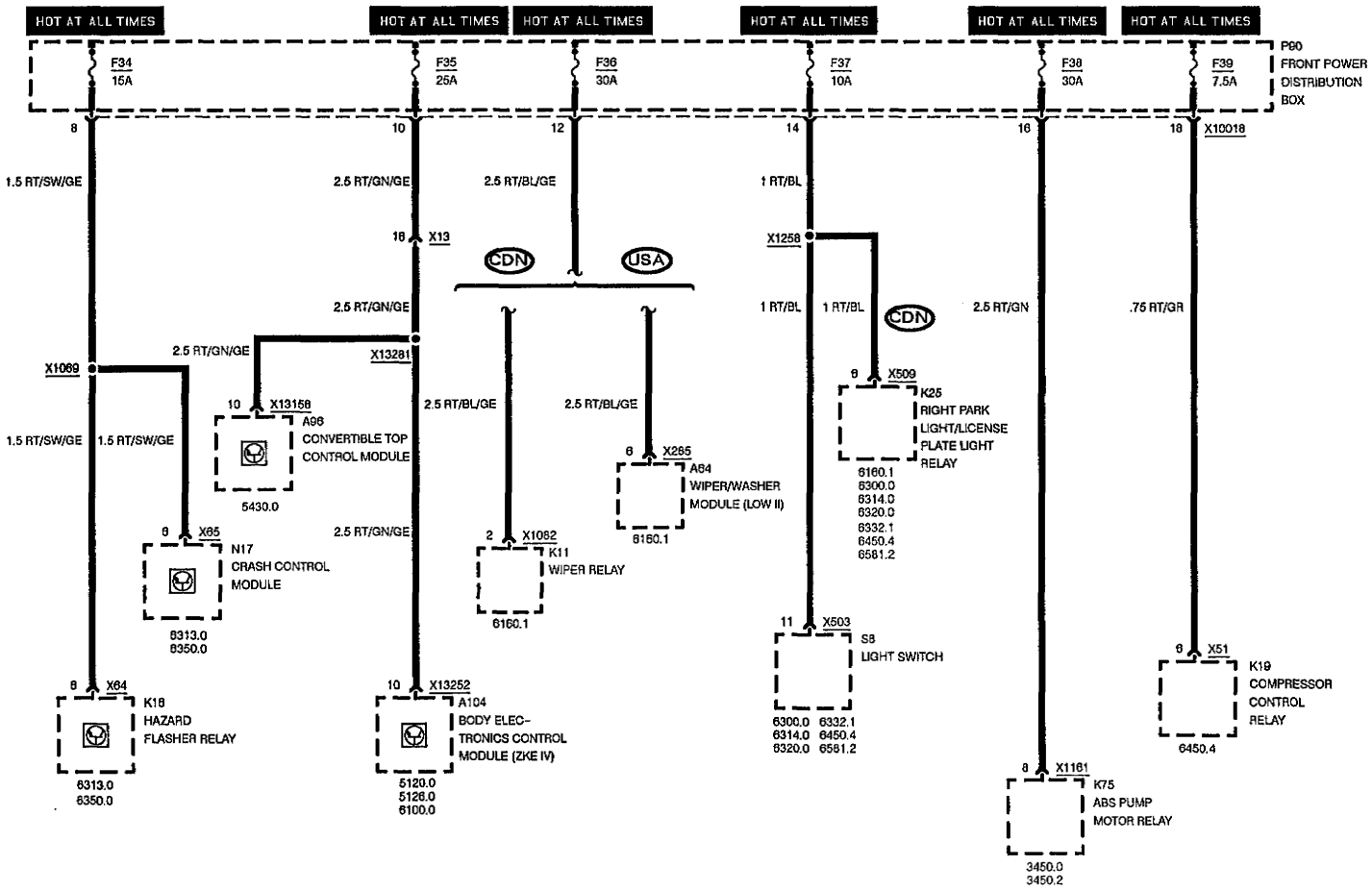
FUSES 32 AND 33



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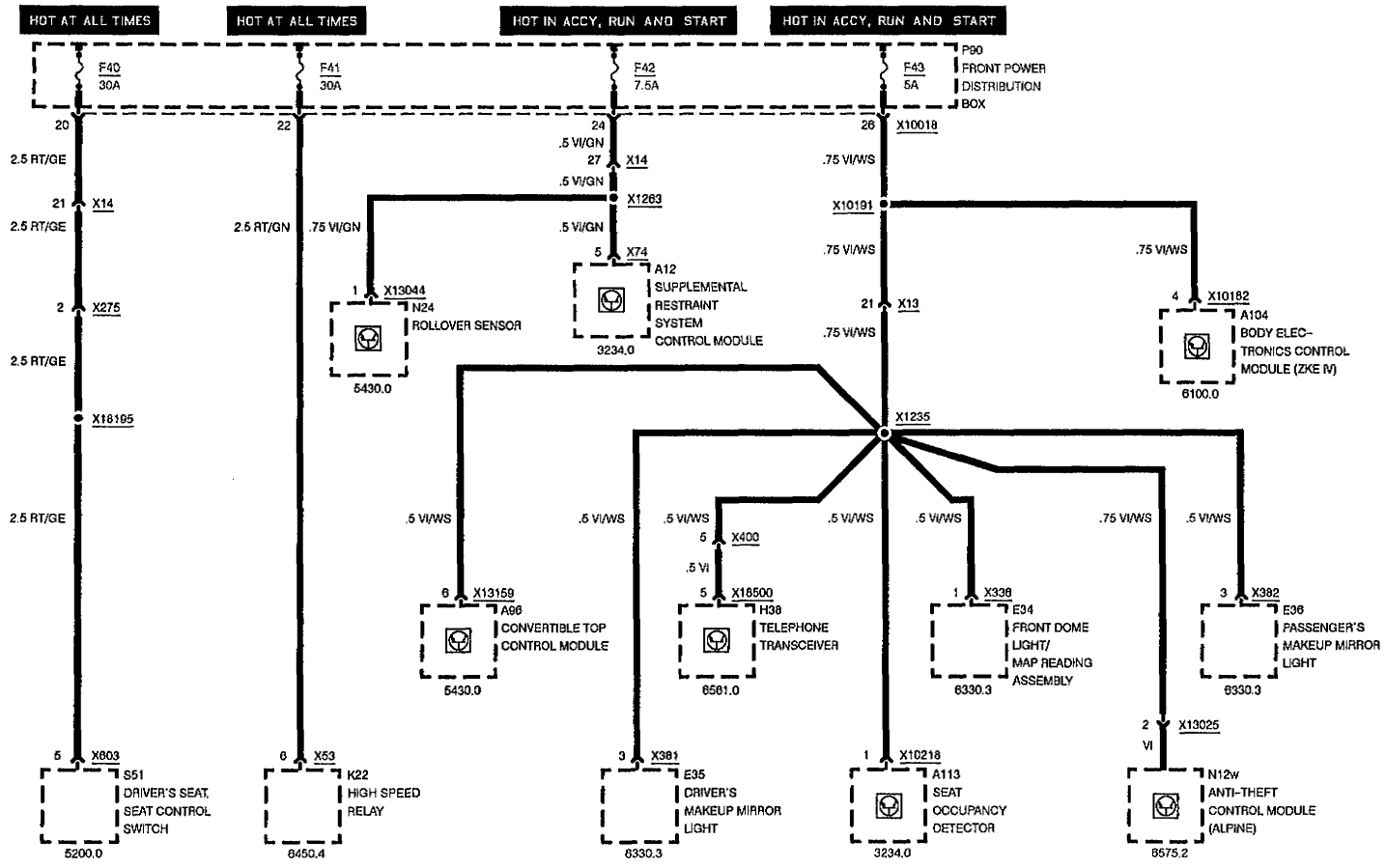


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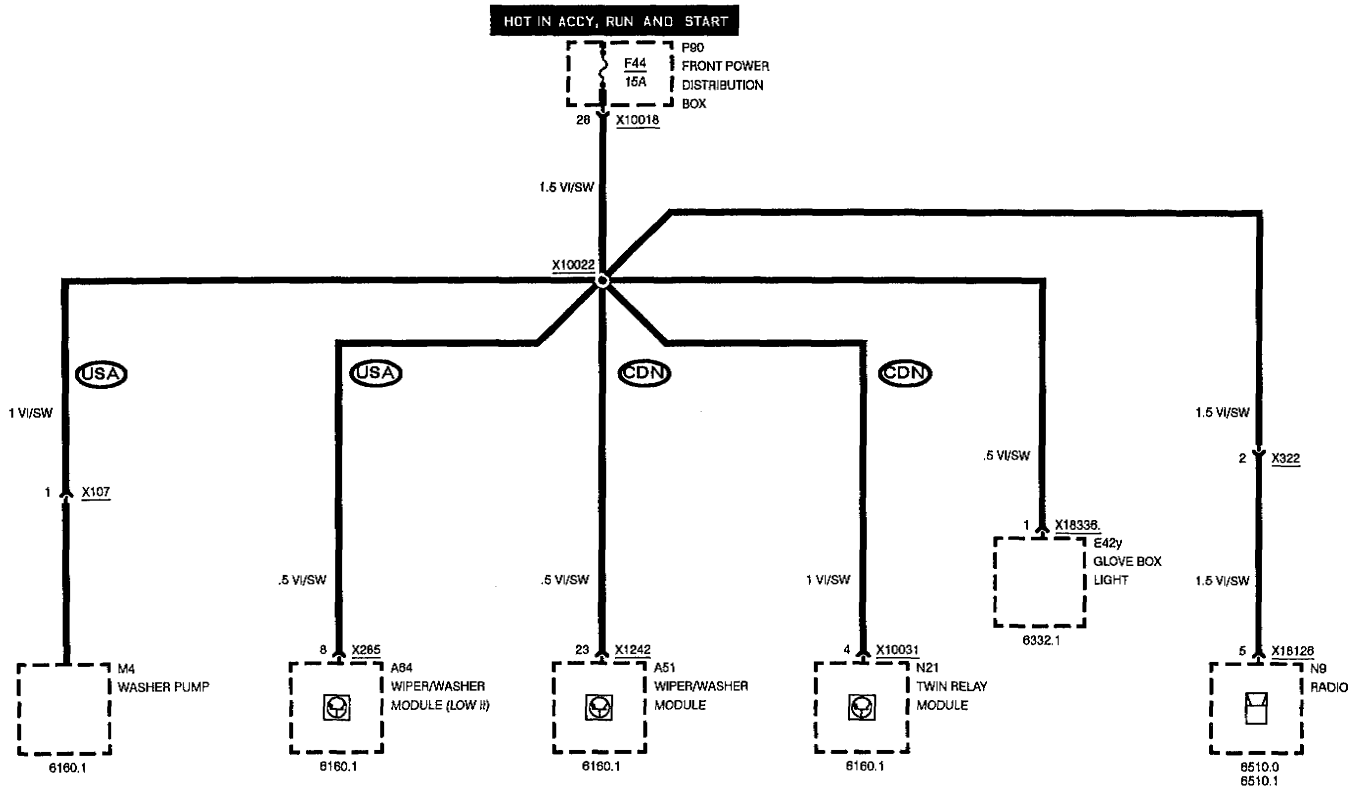
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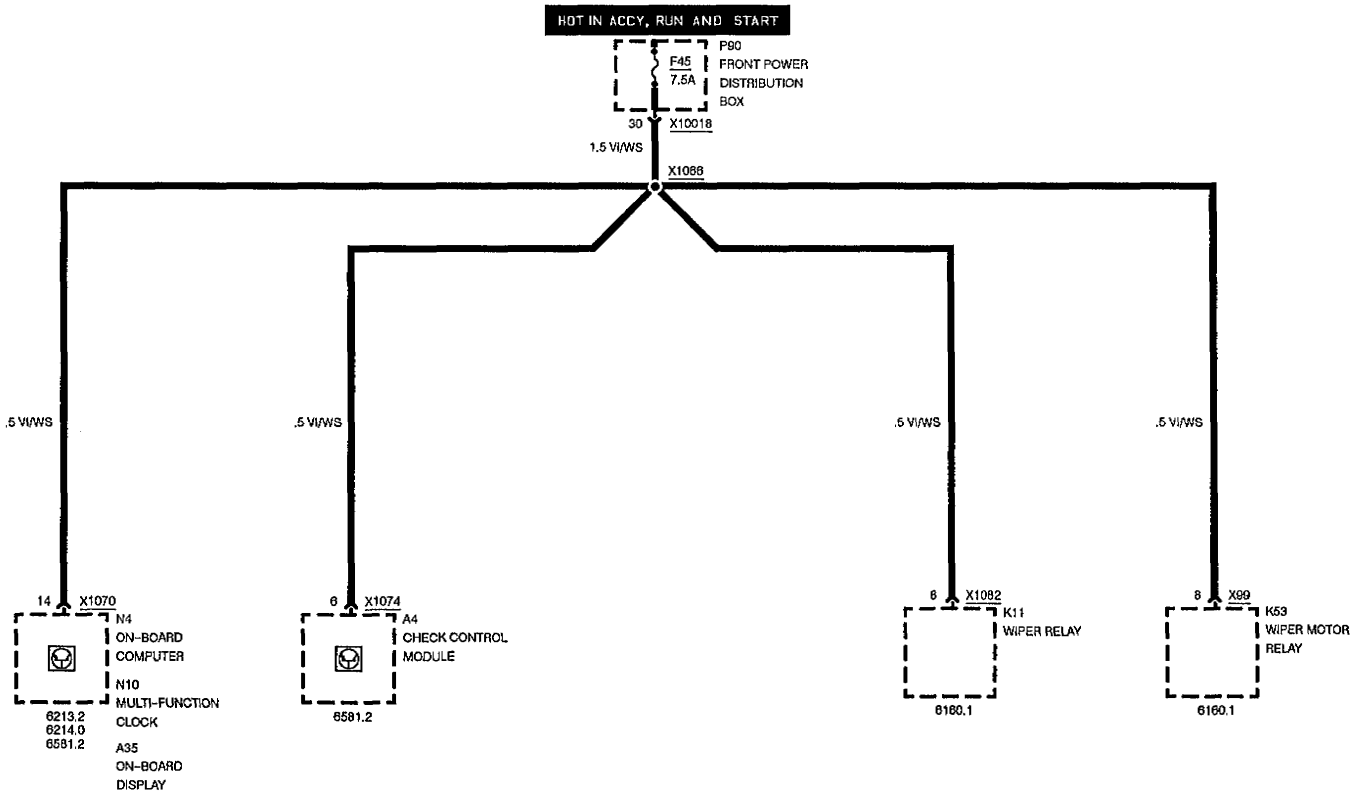
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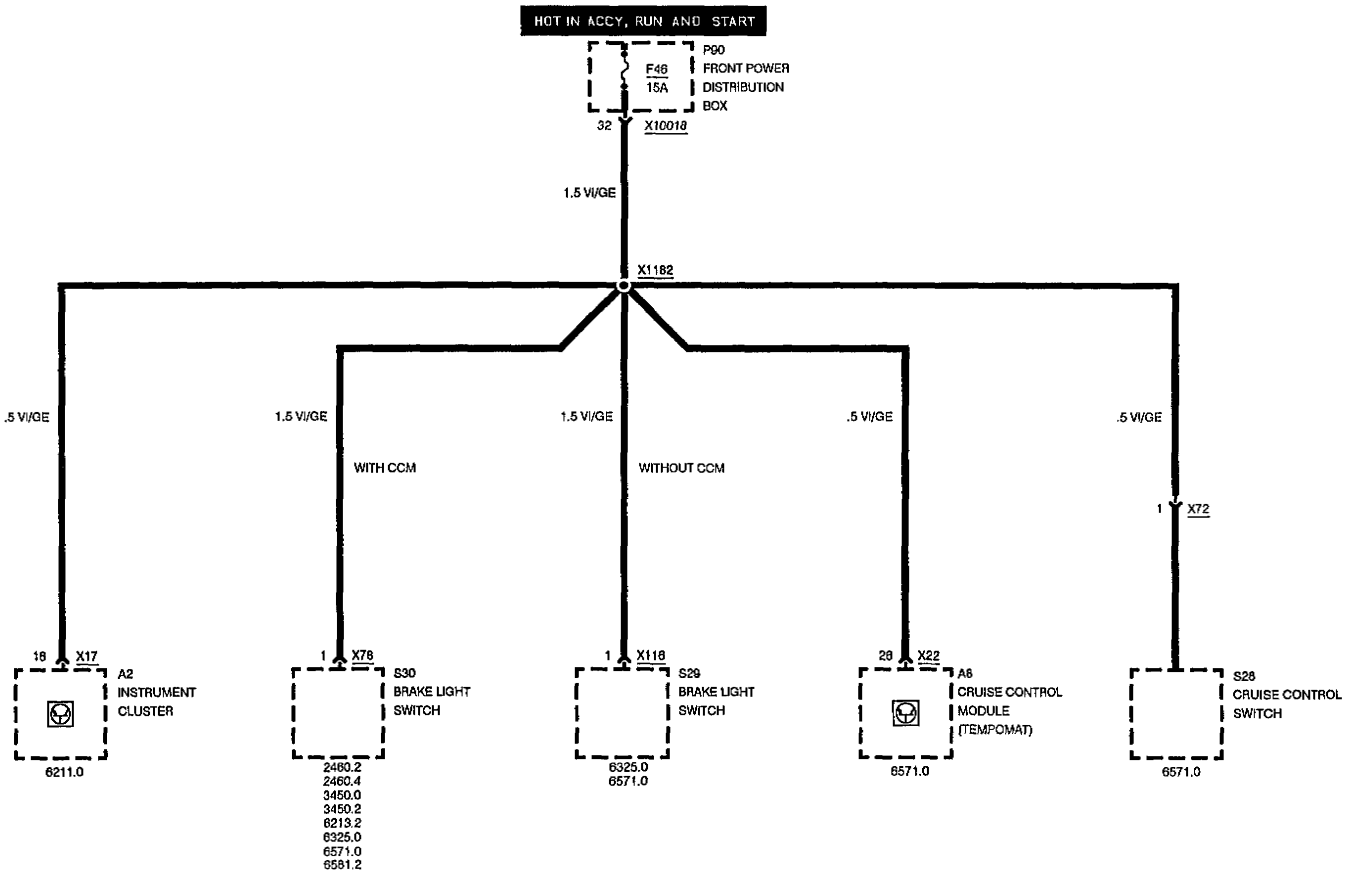
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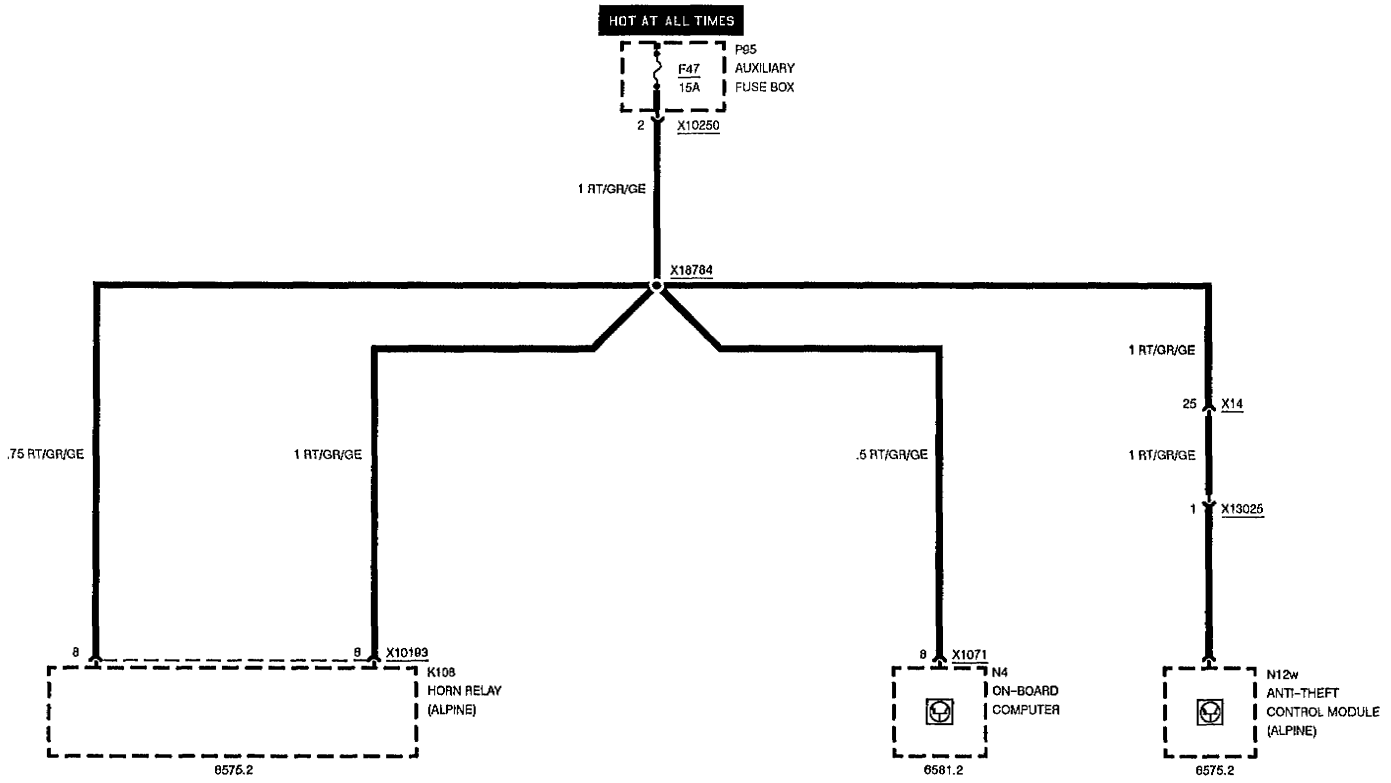
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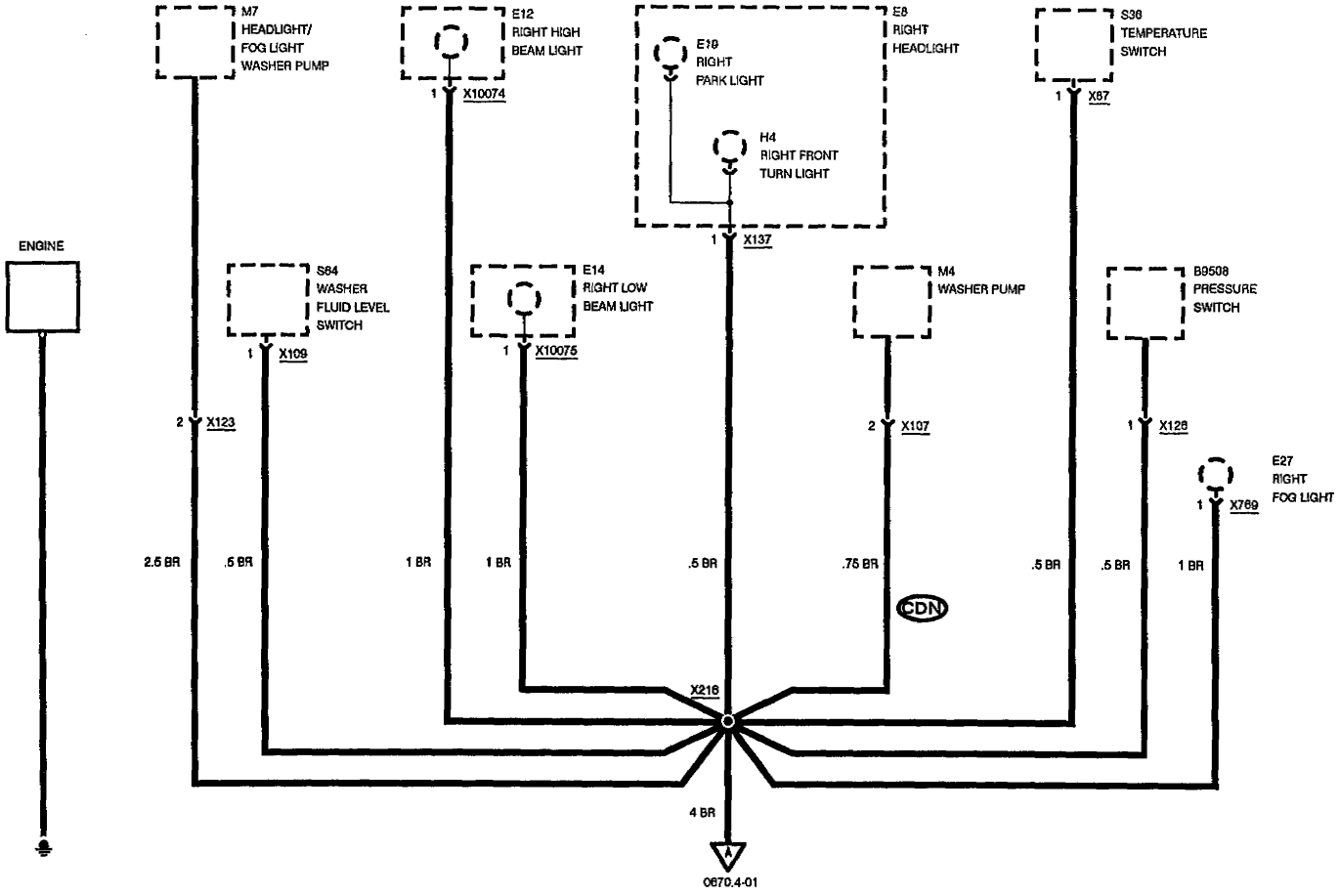
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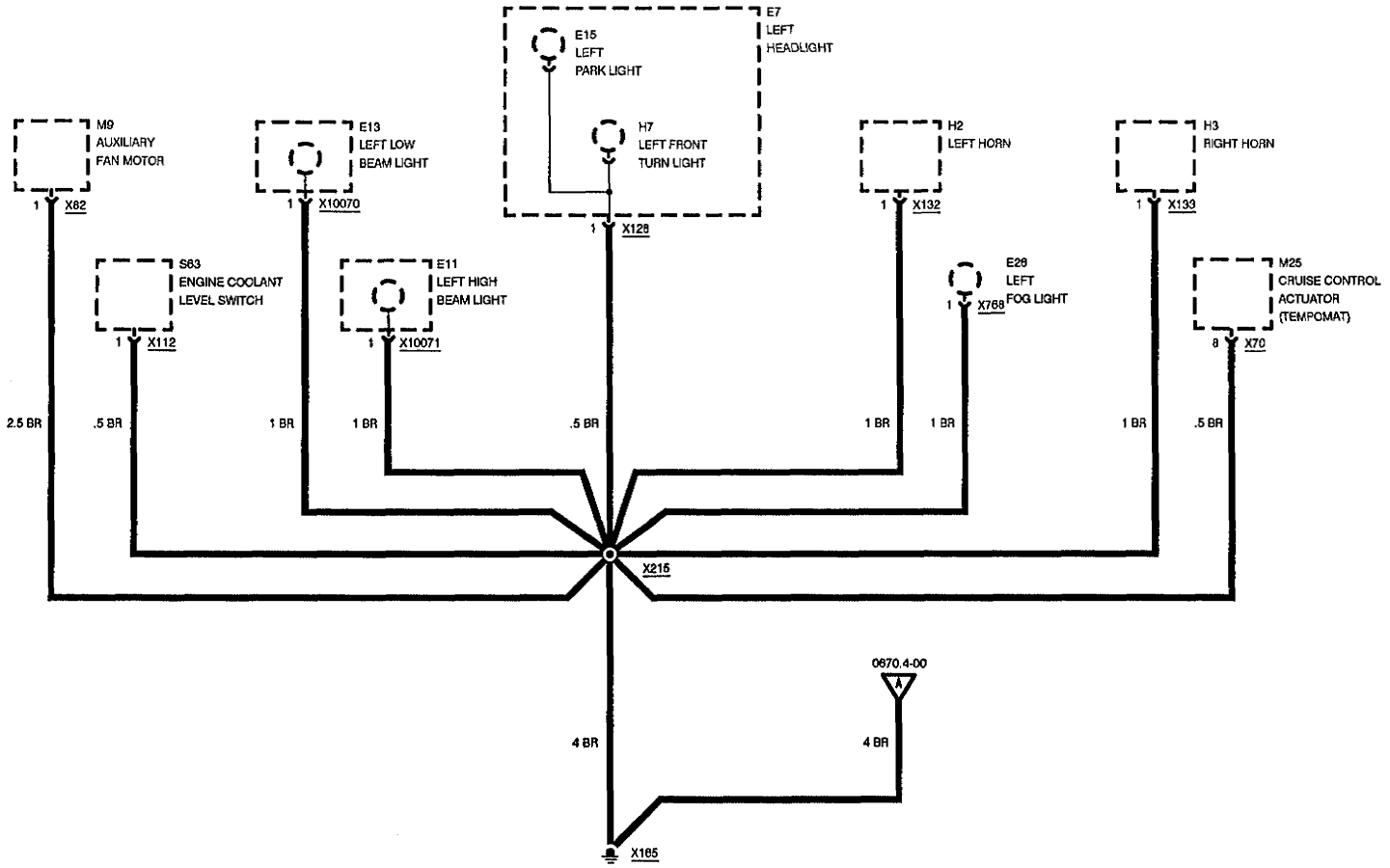
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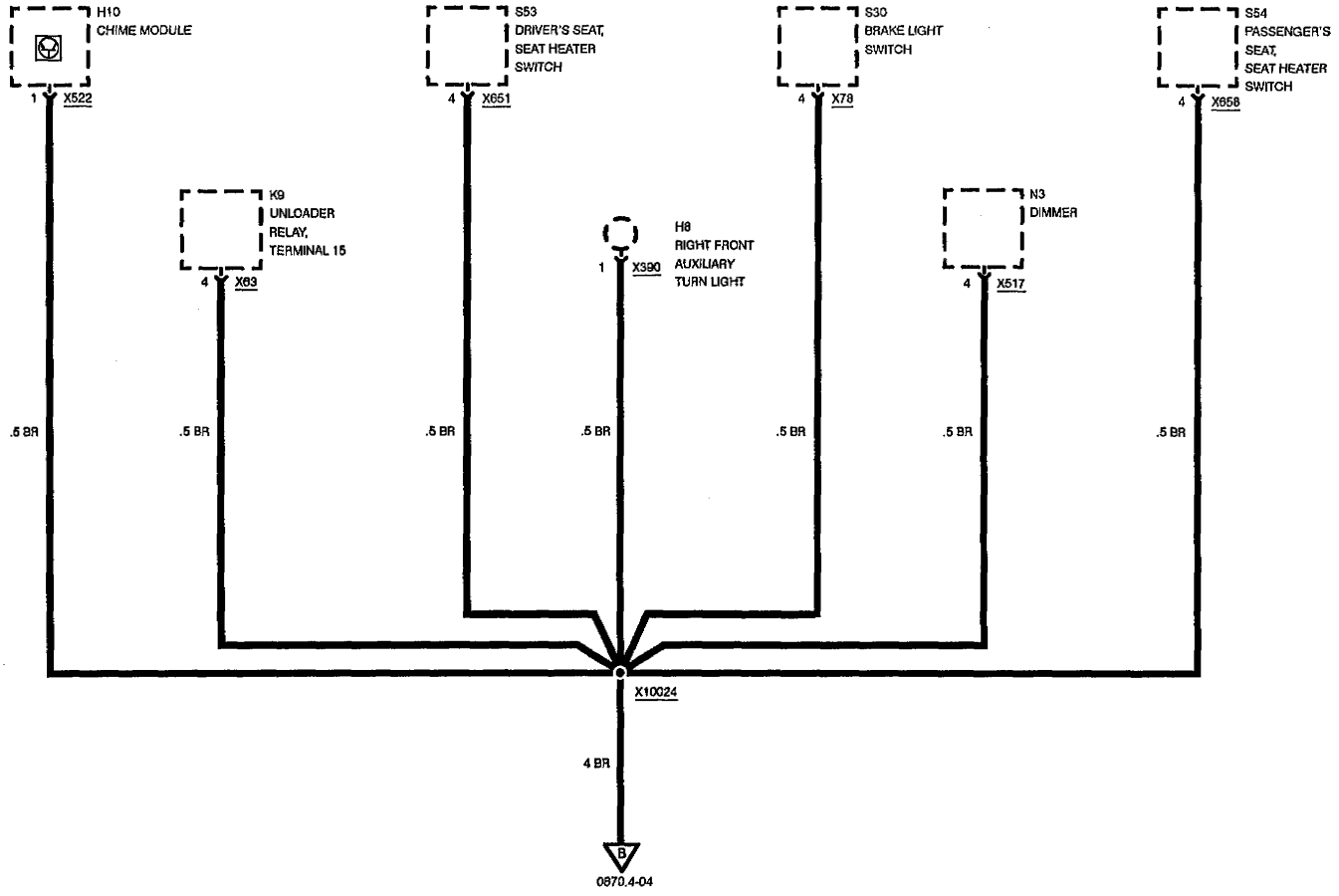
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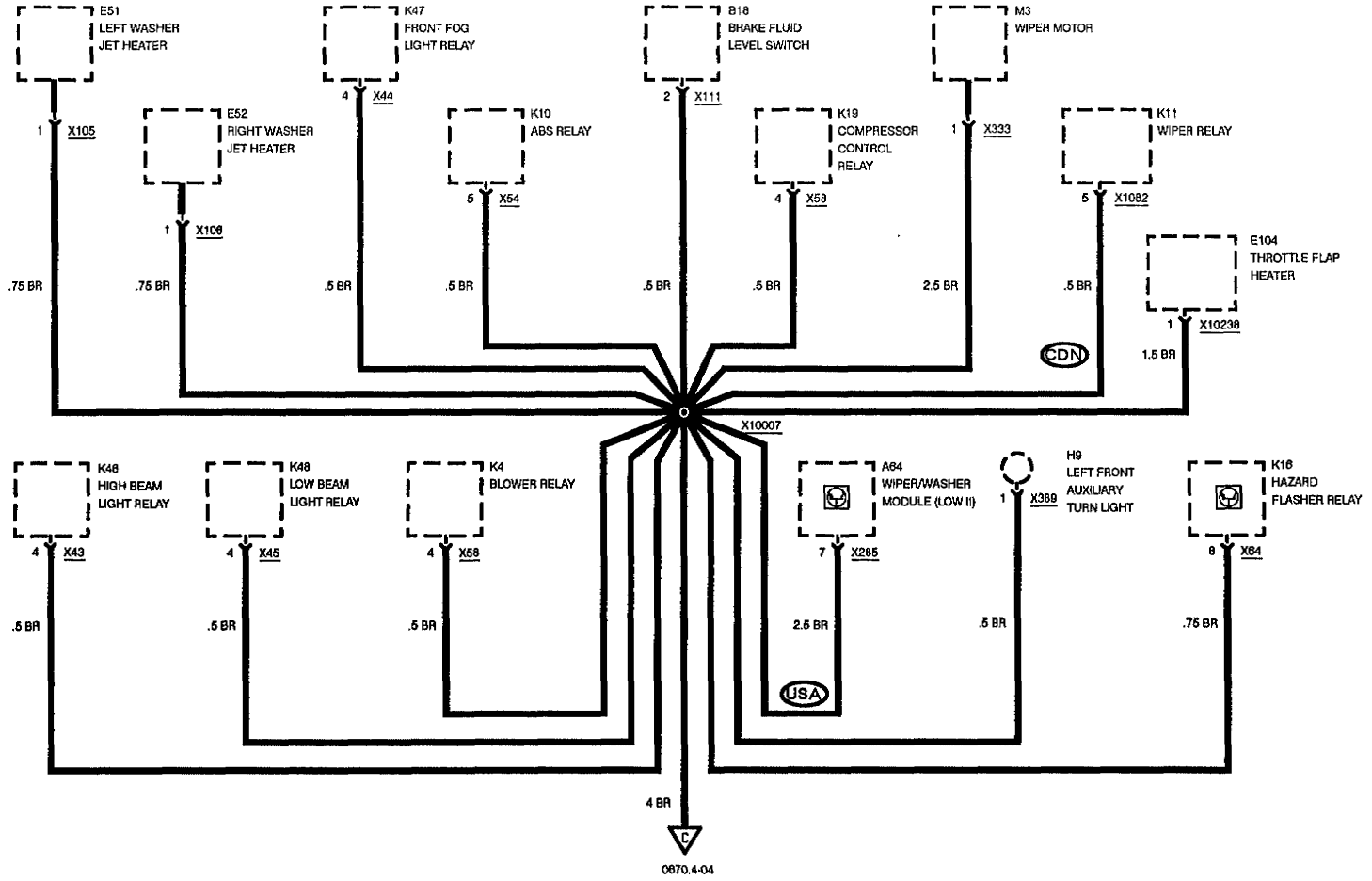
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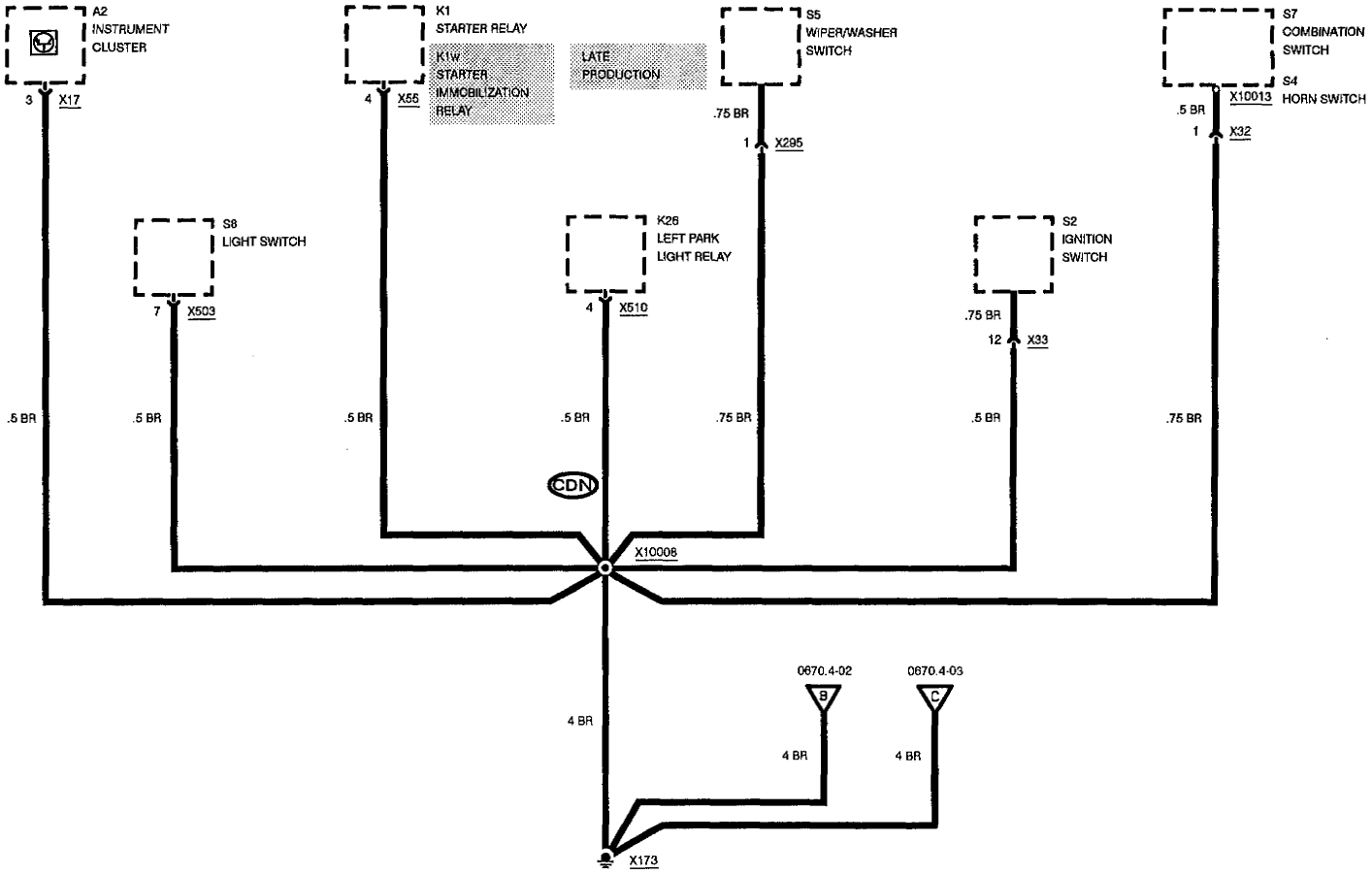
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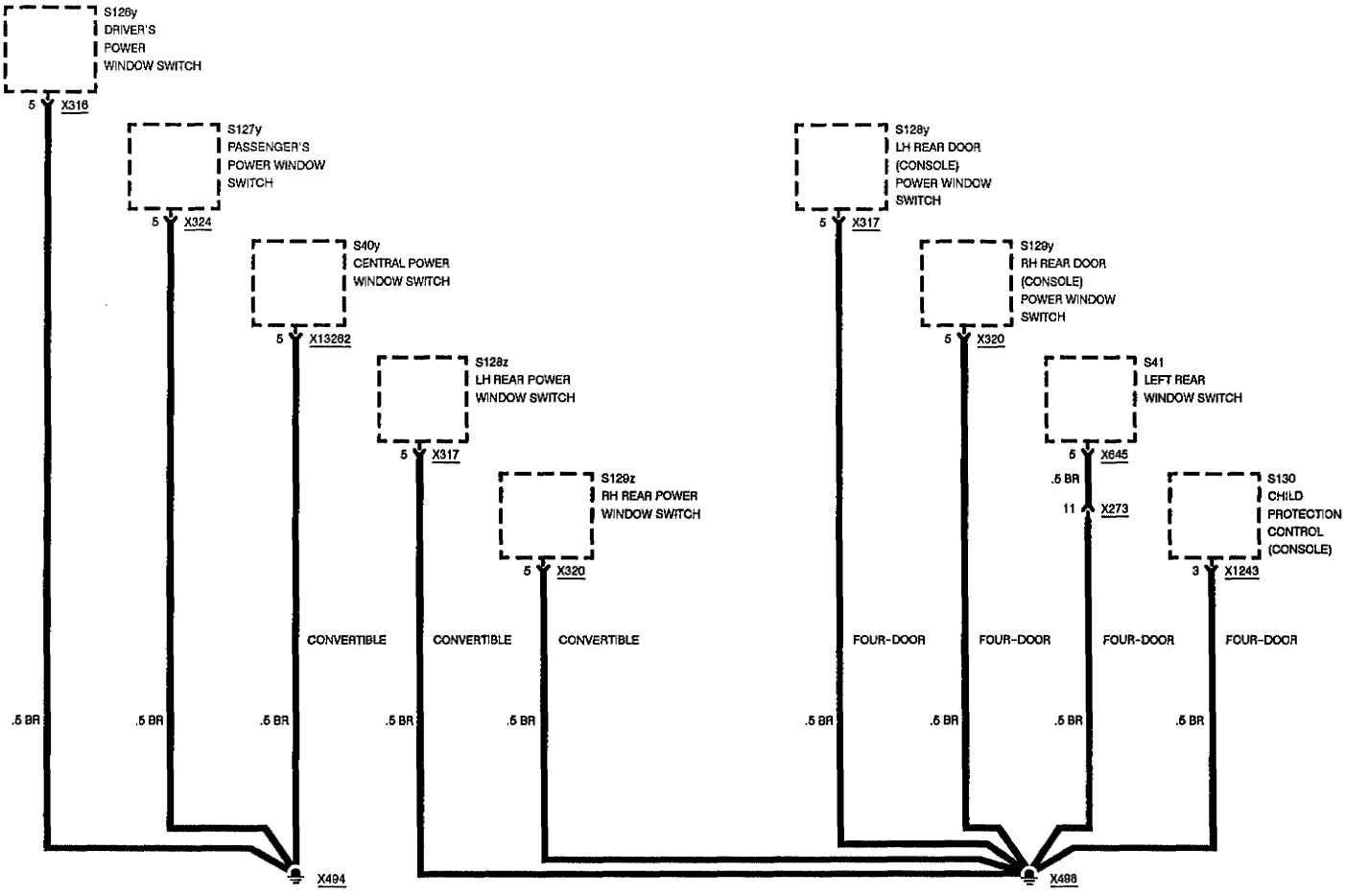
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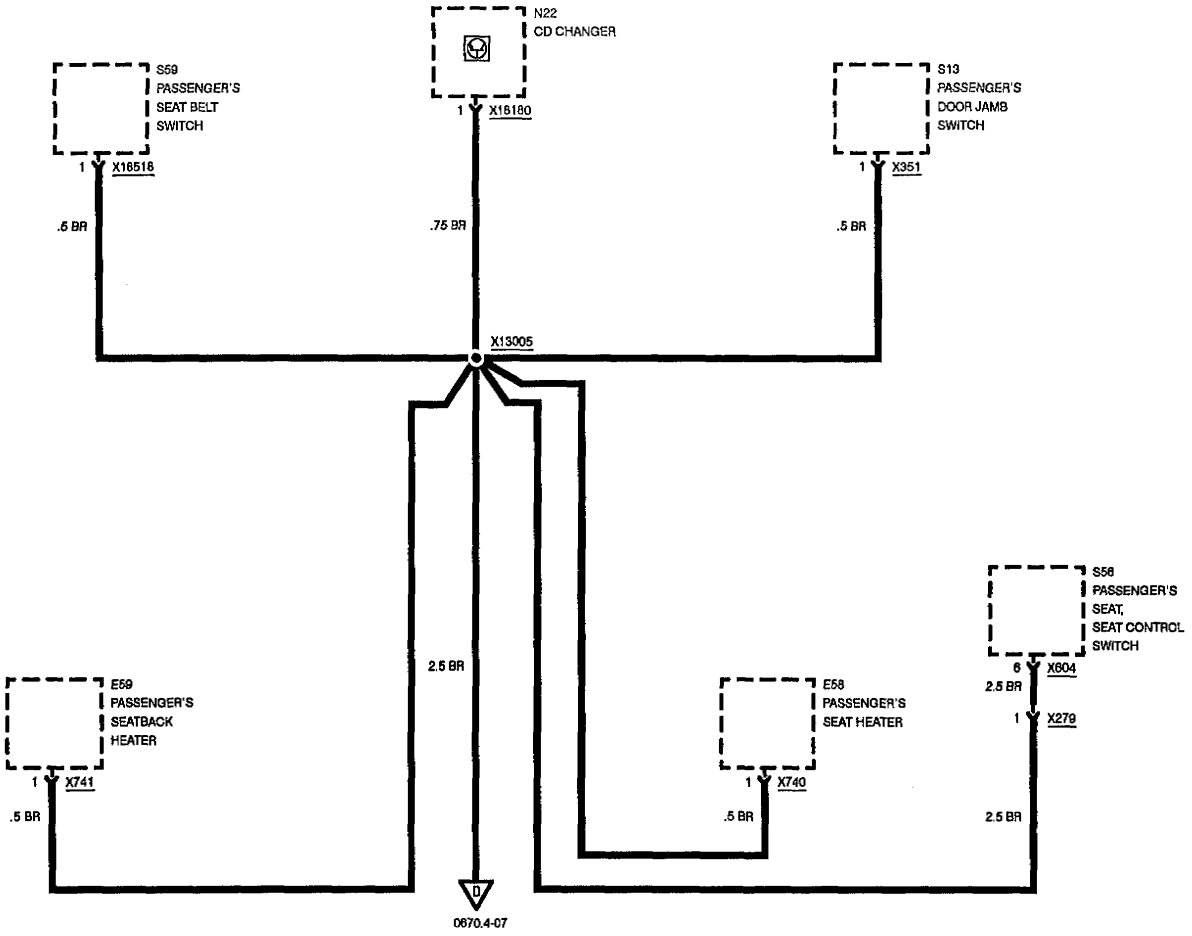


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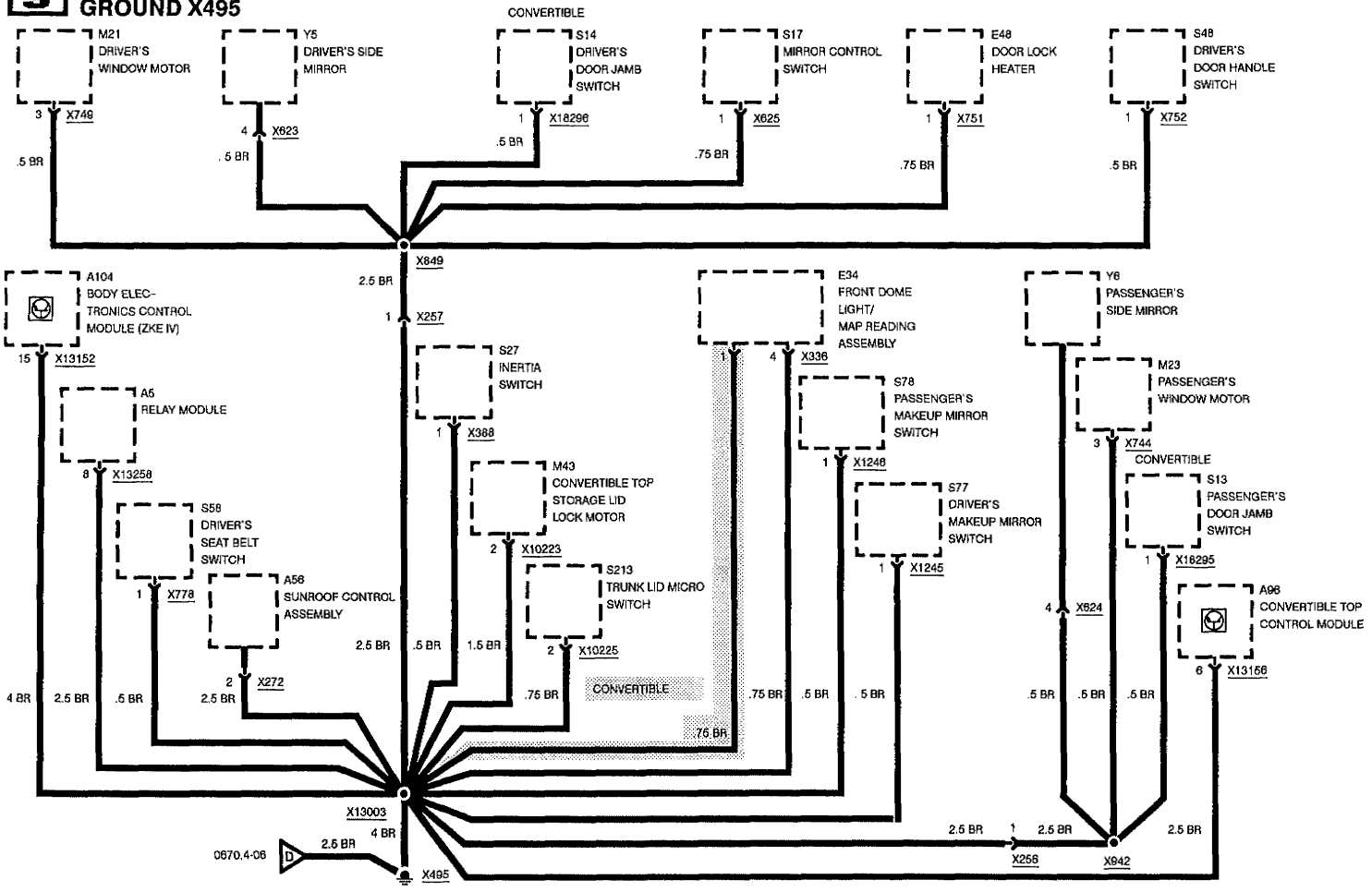
TWO-DOOR



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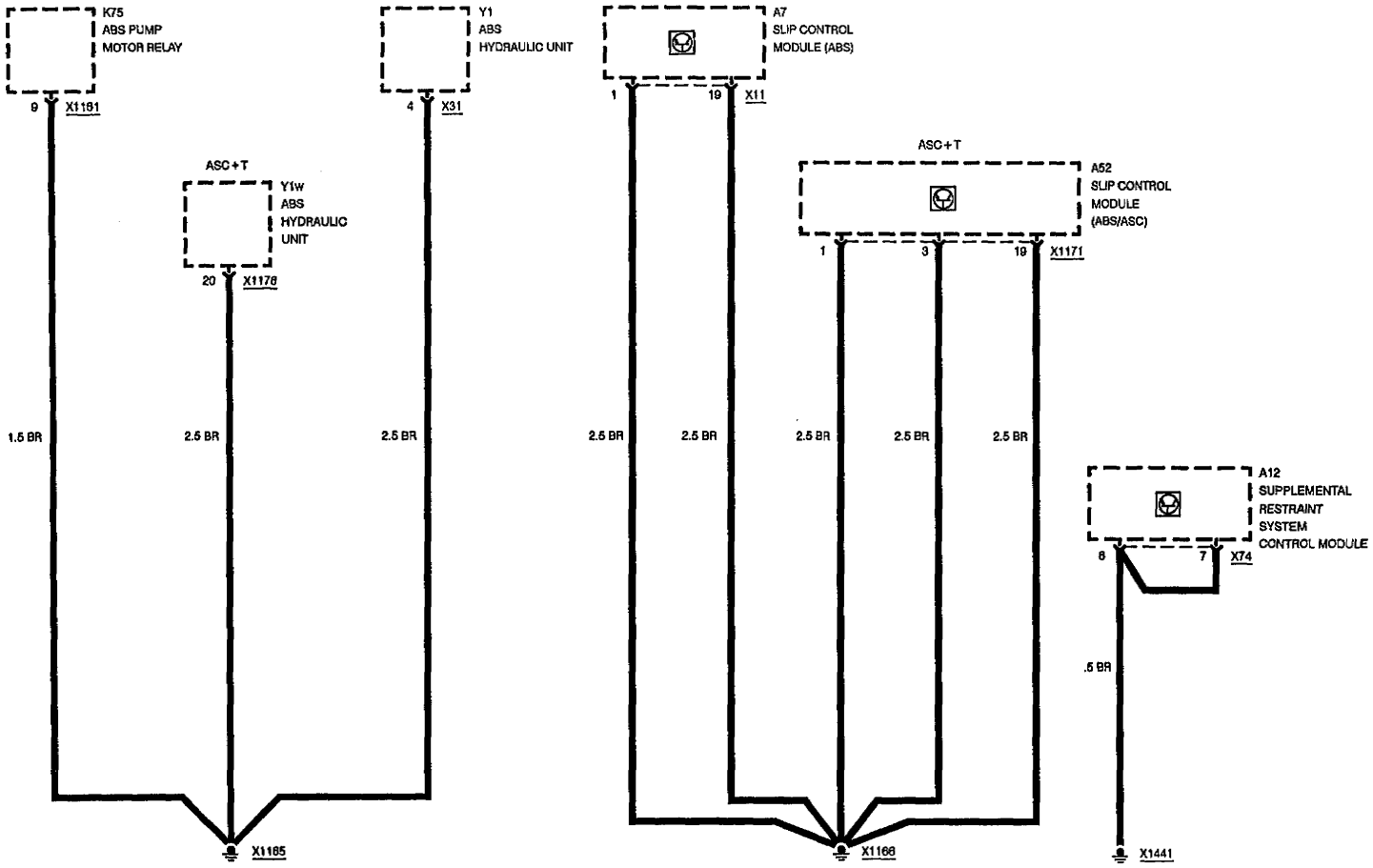
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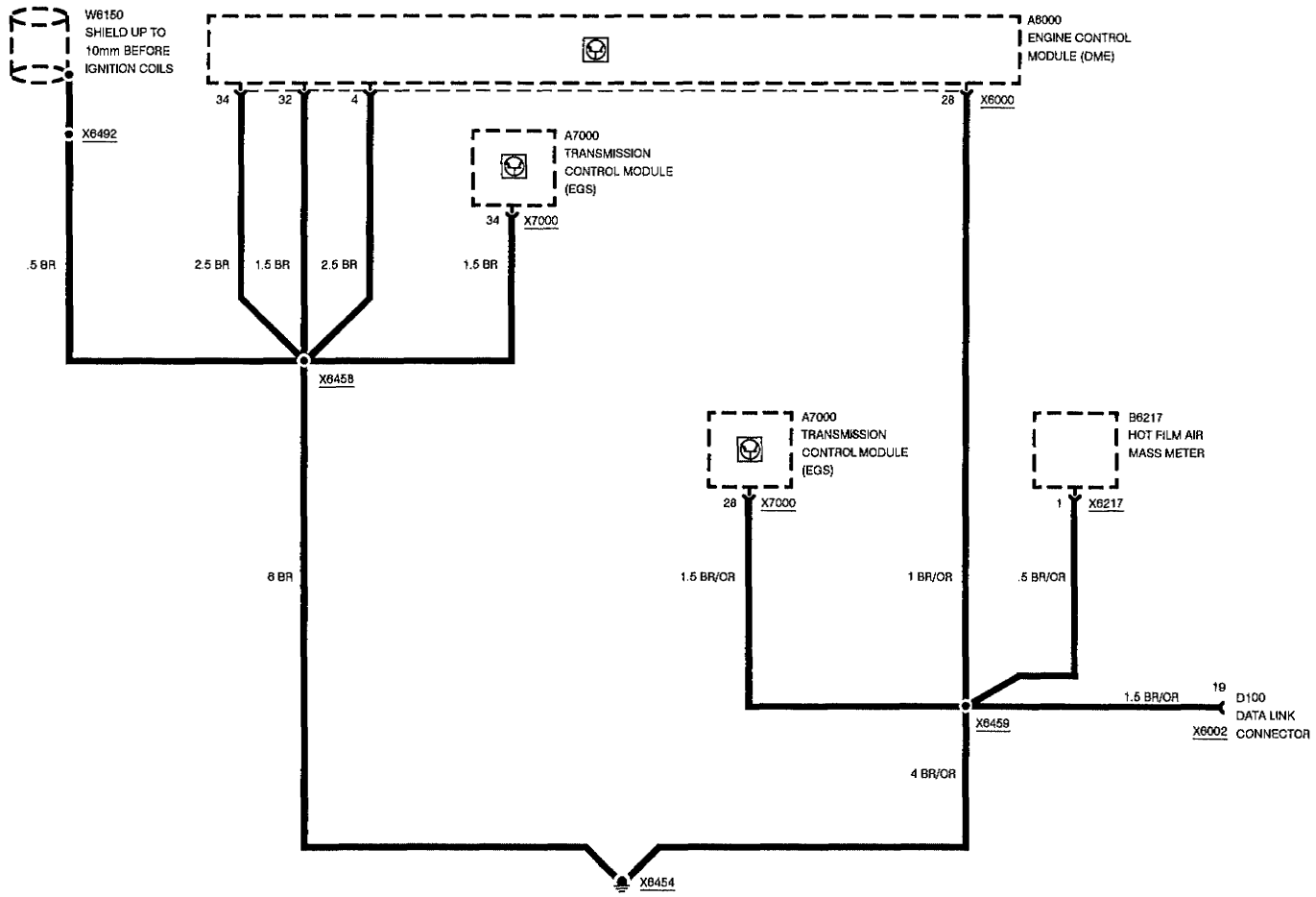


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320i CDN

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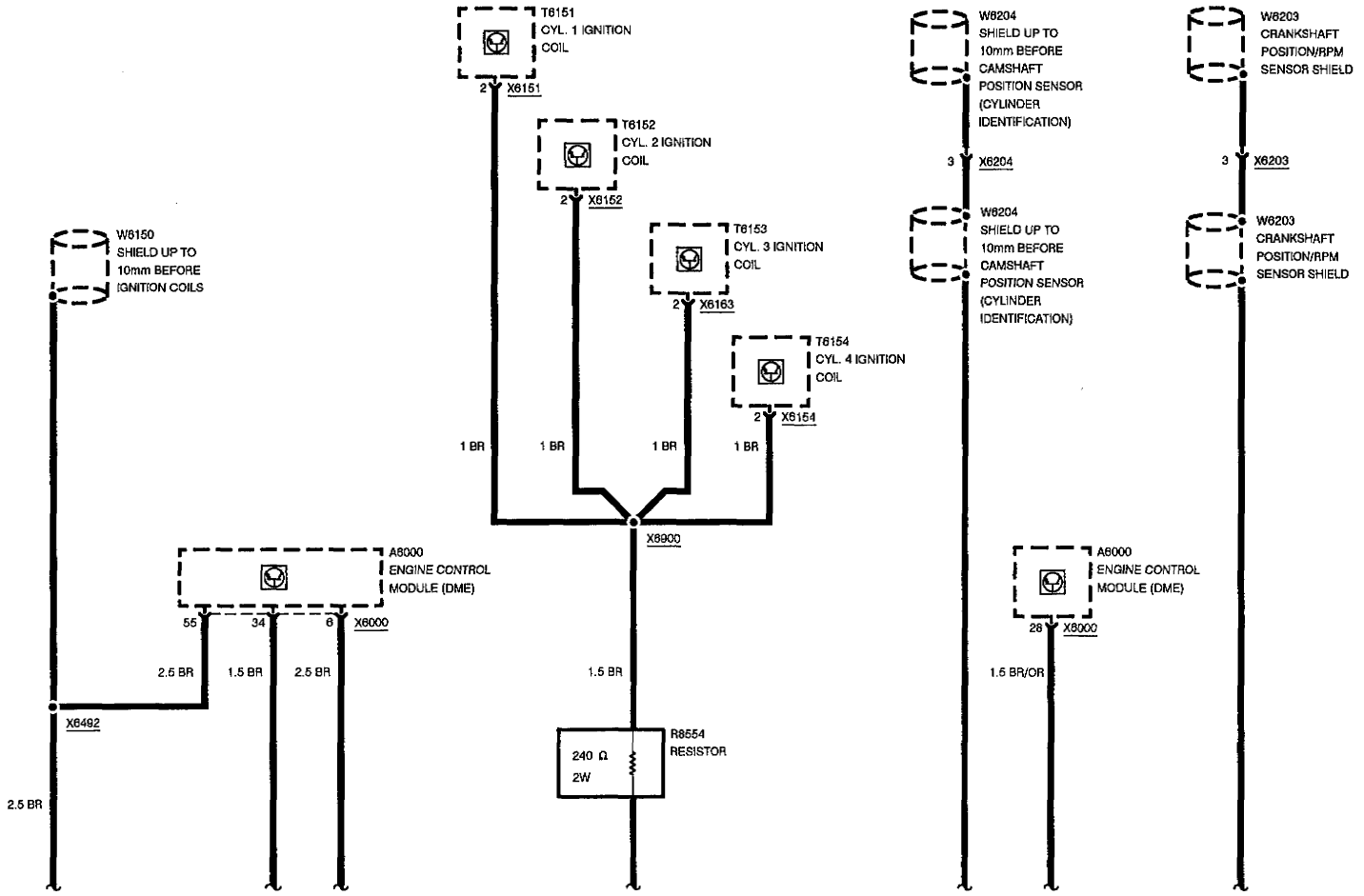


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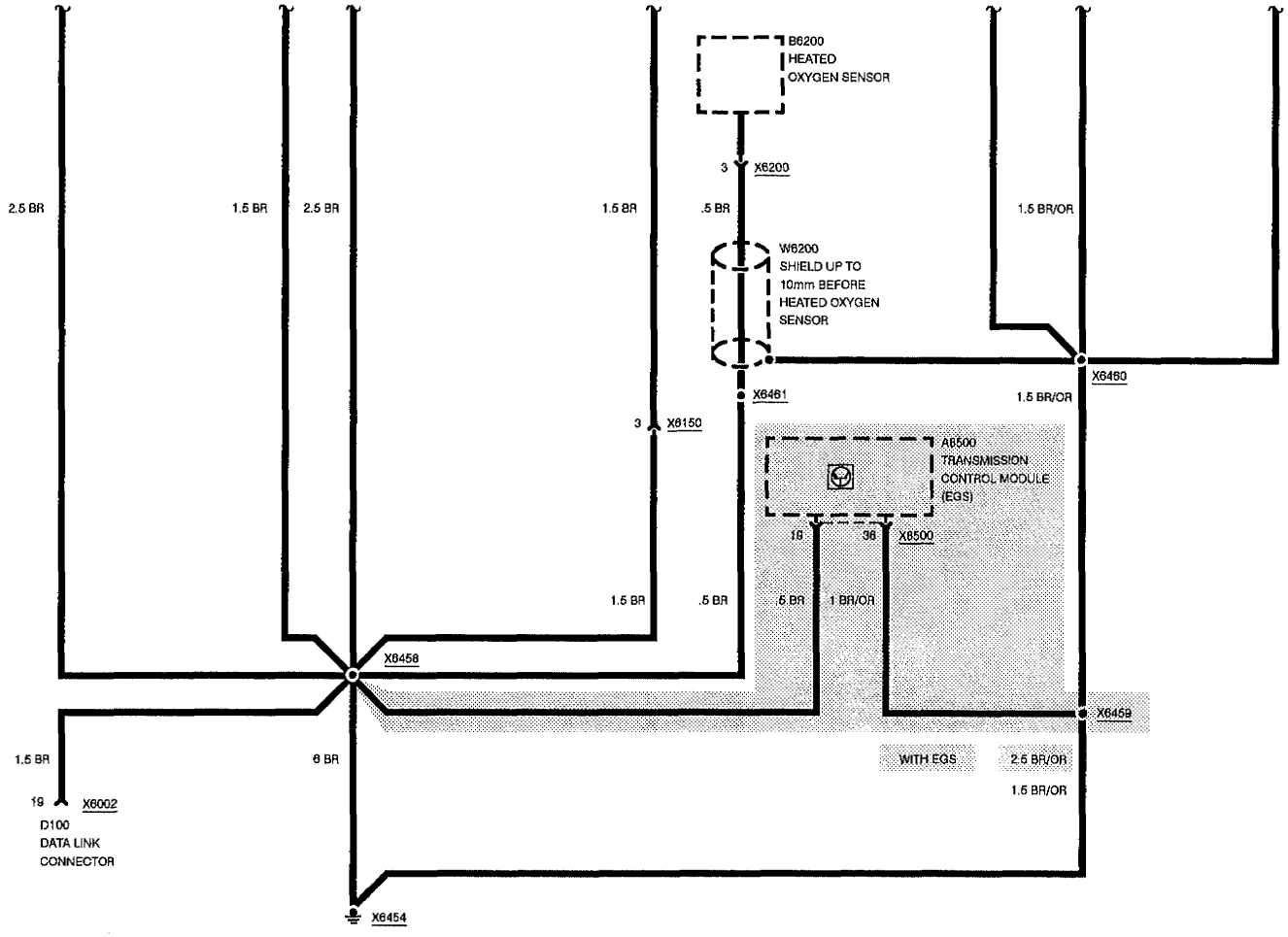
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318i

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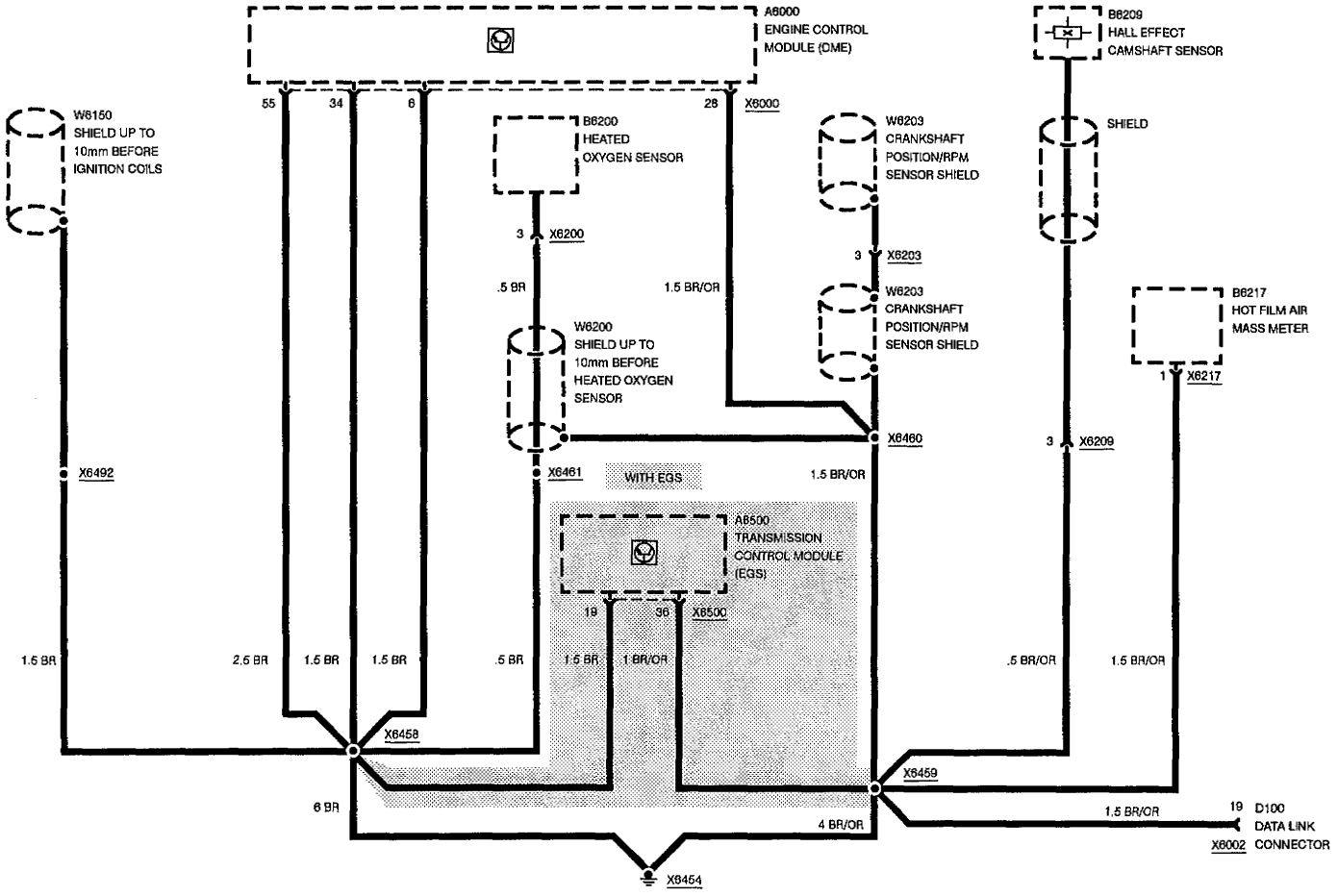


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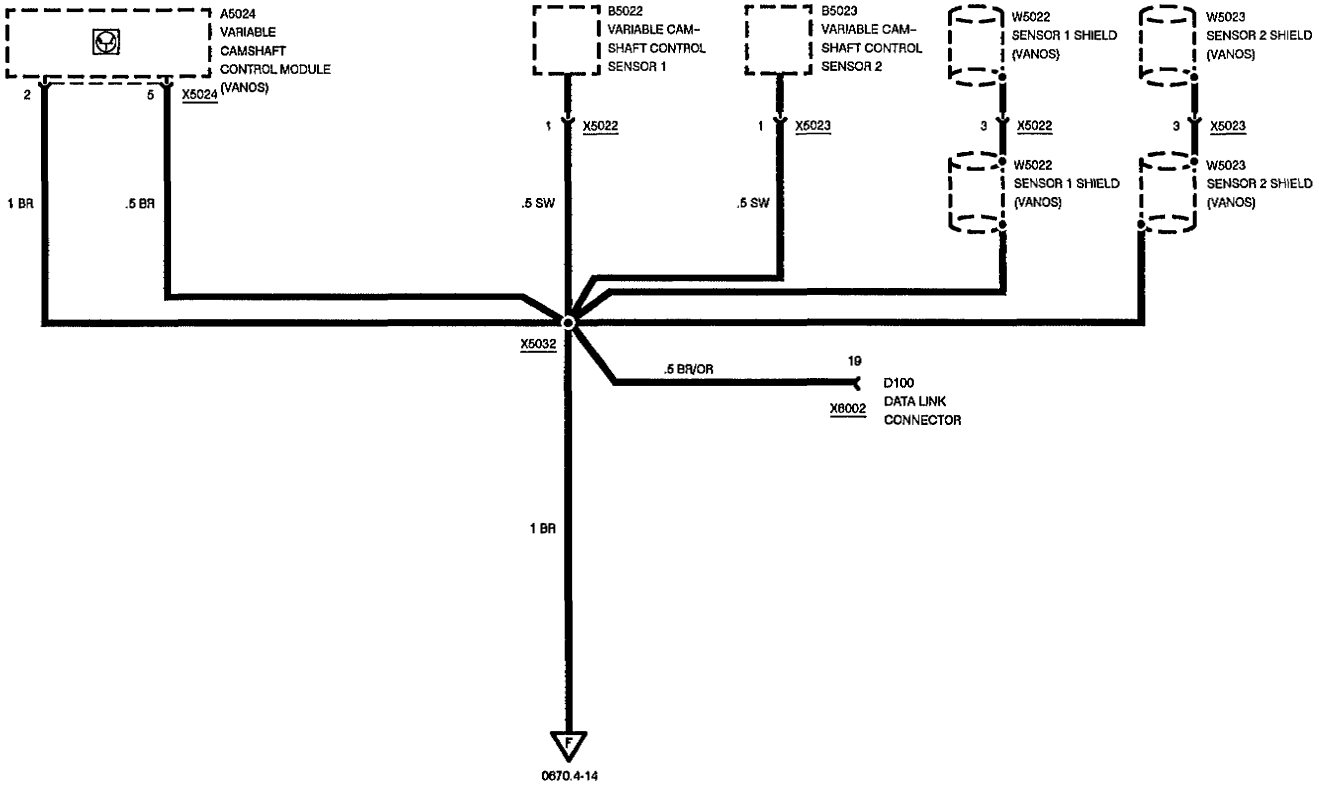
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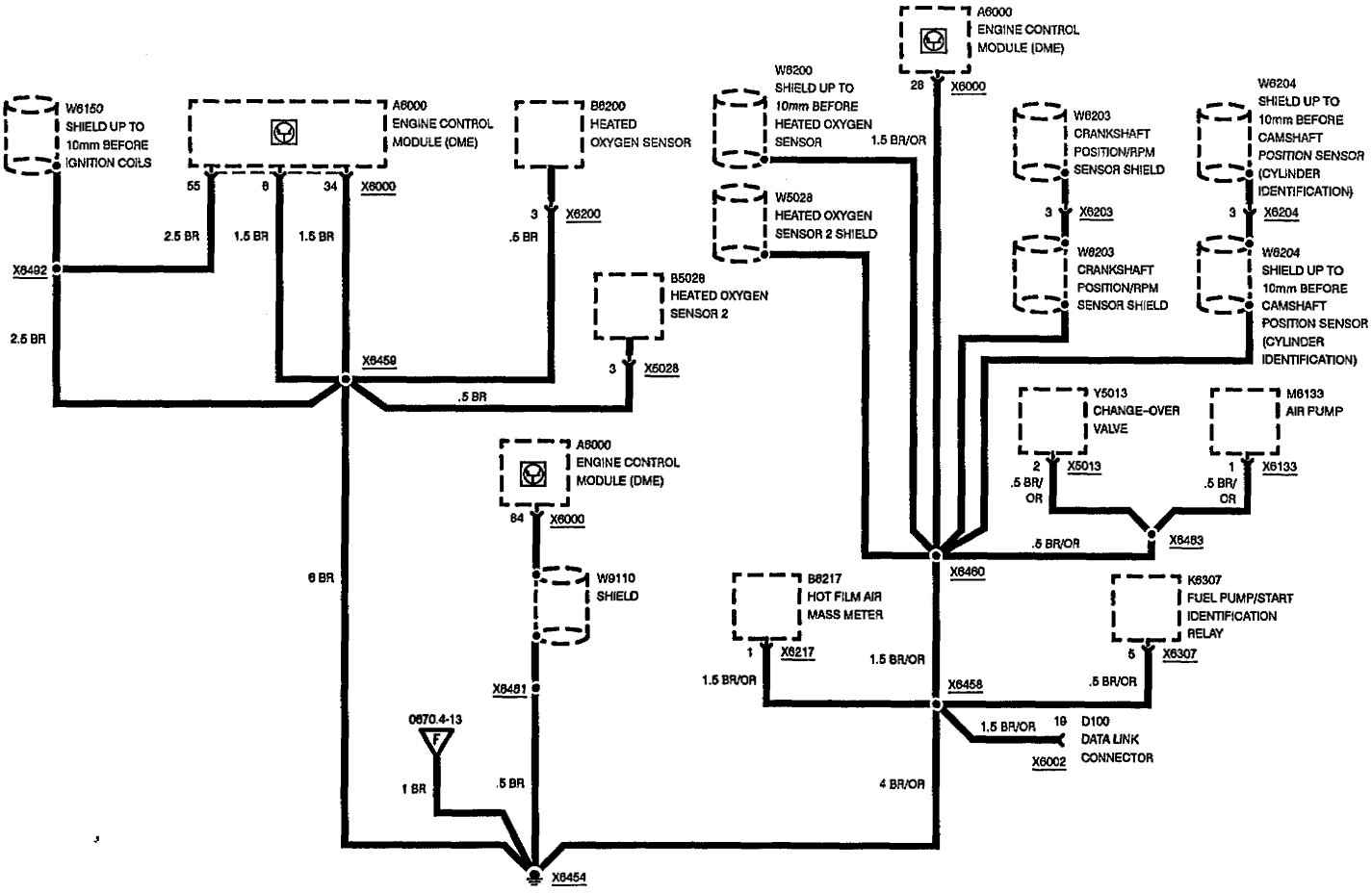
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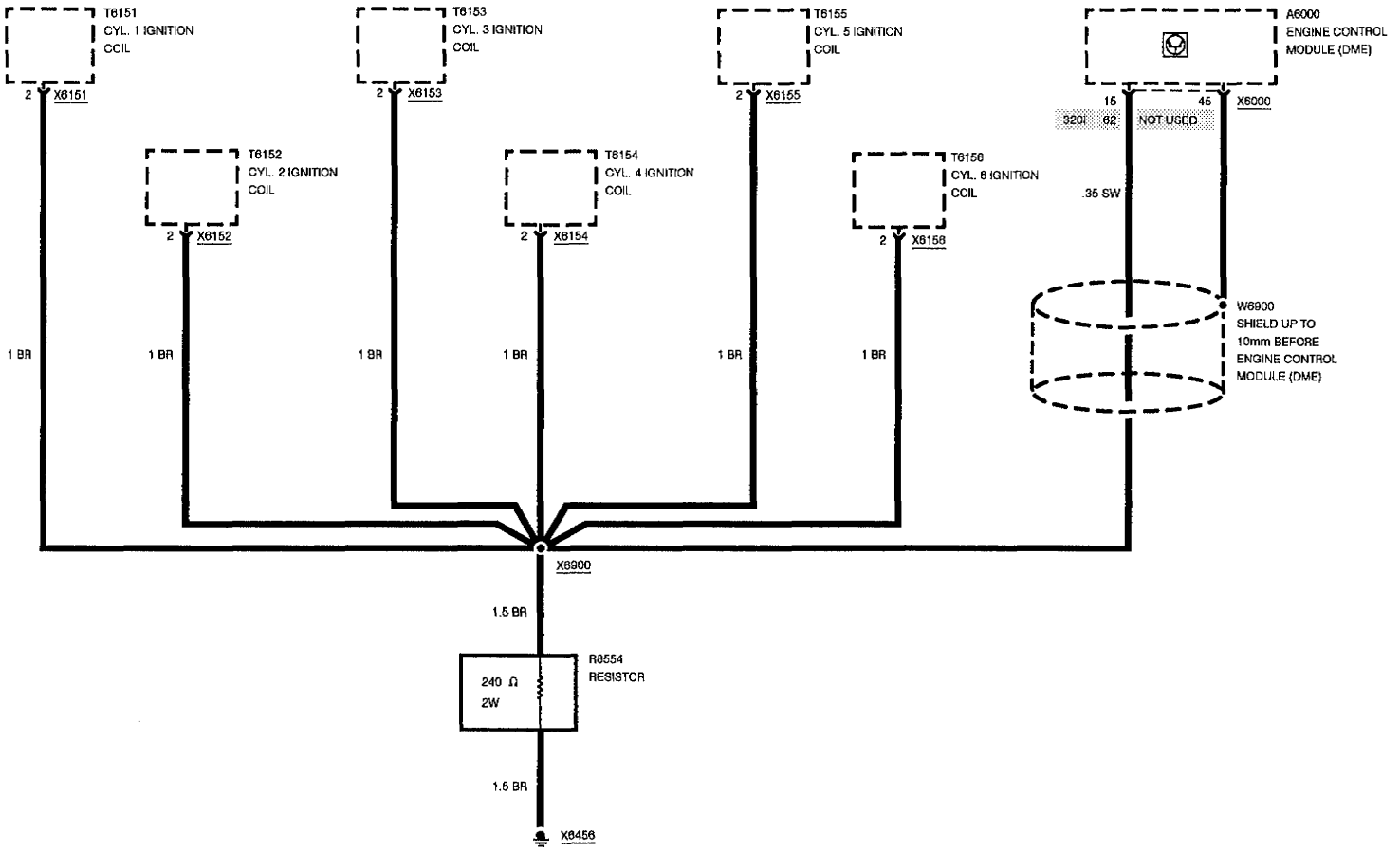


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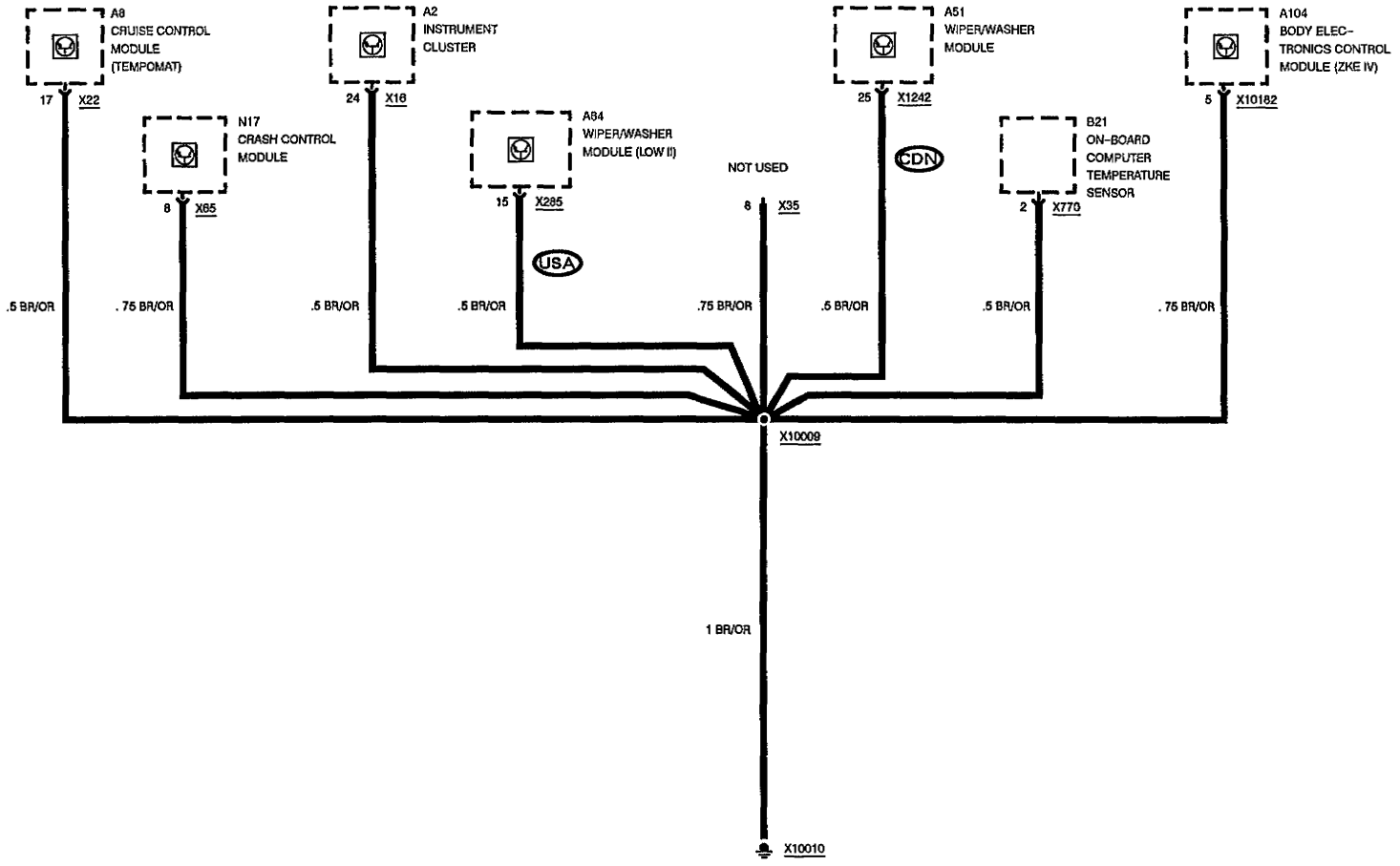
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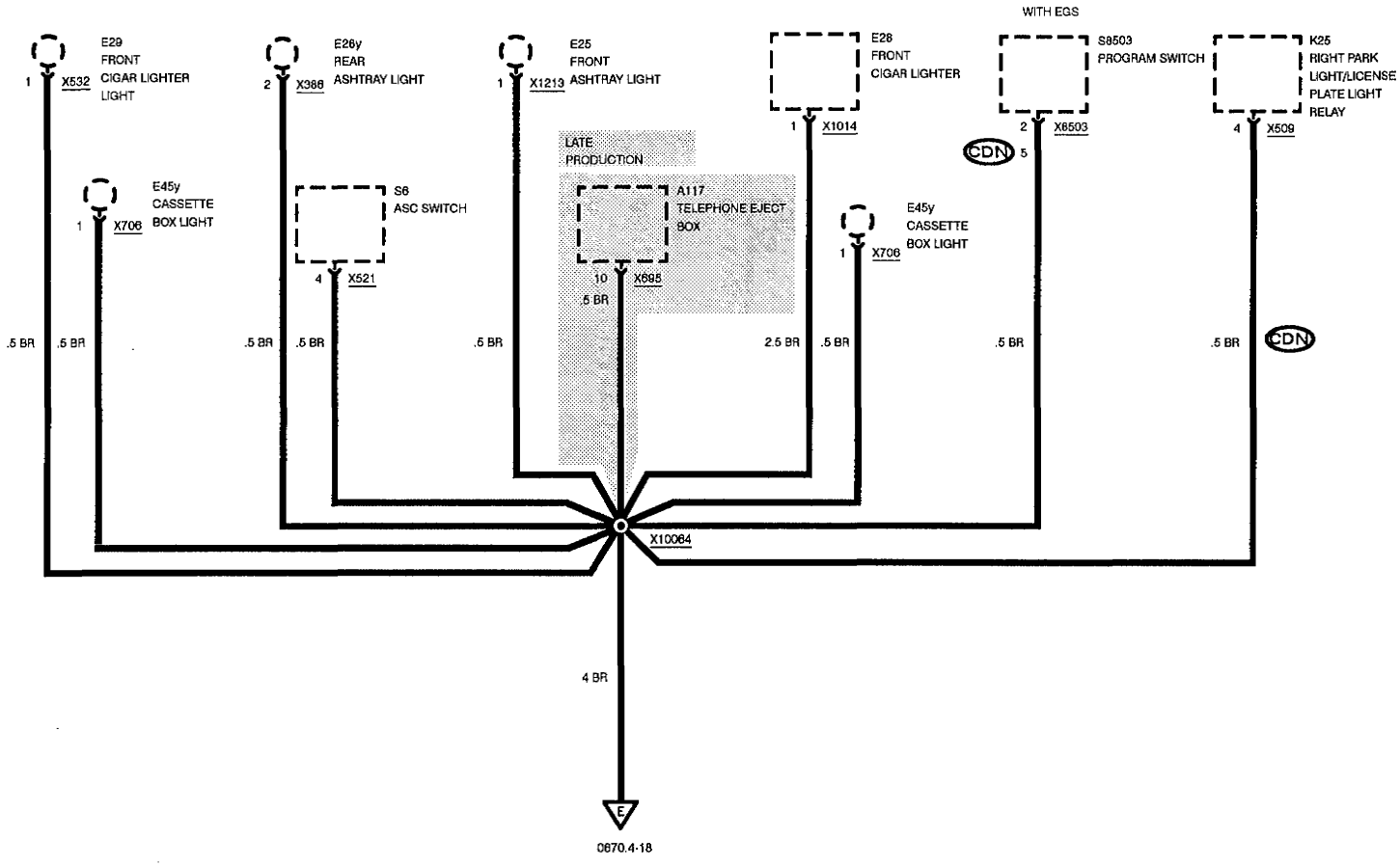
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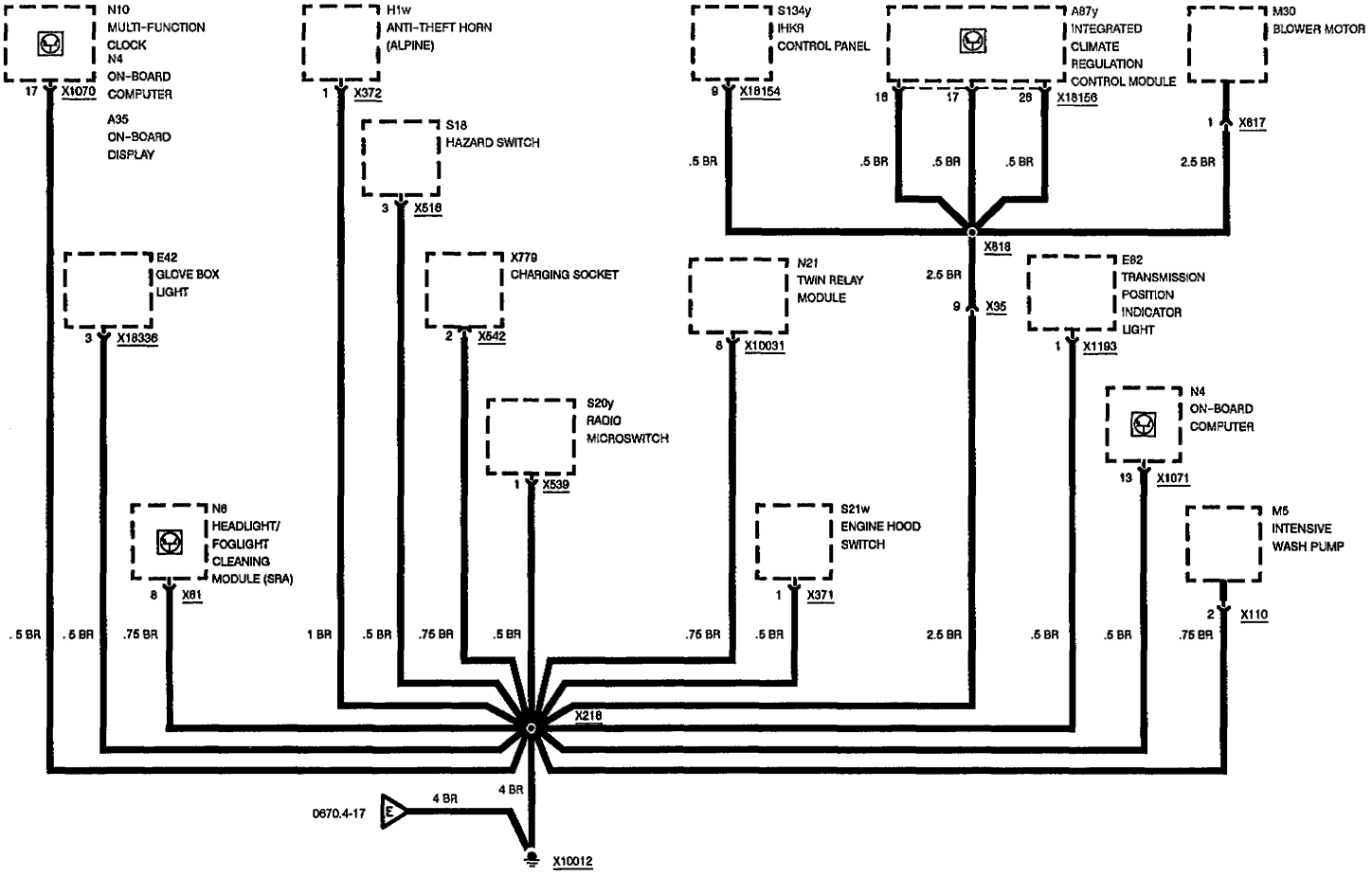
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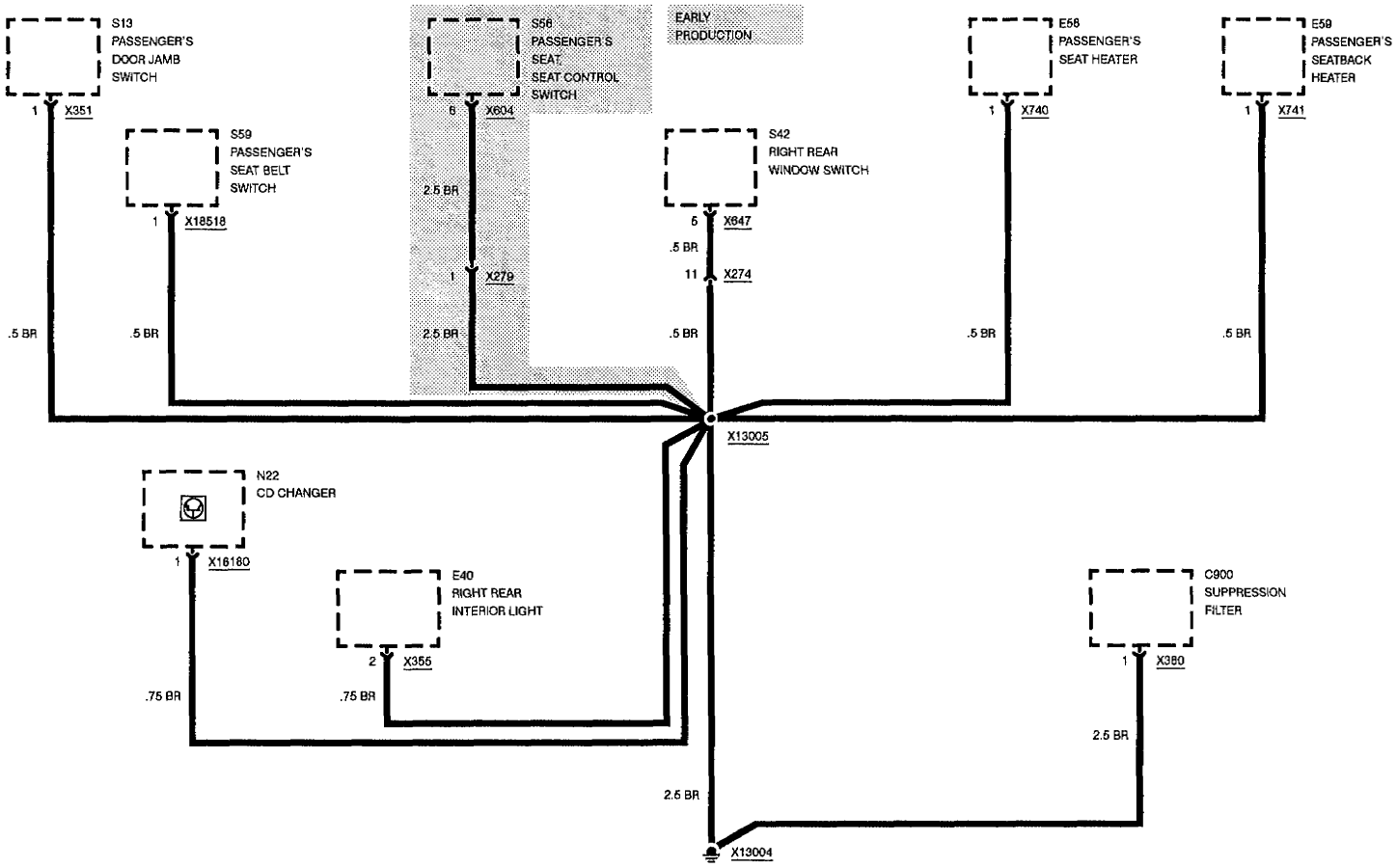


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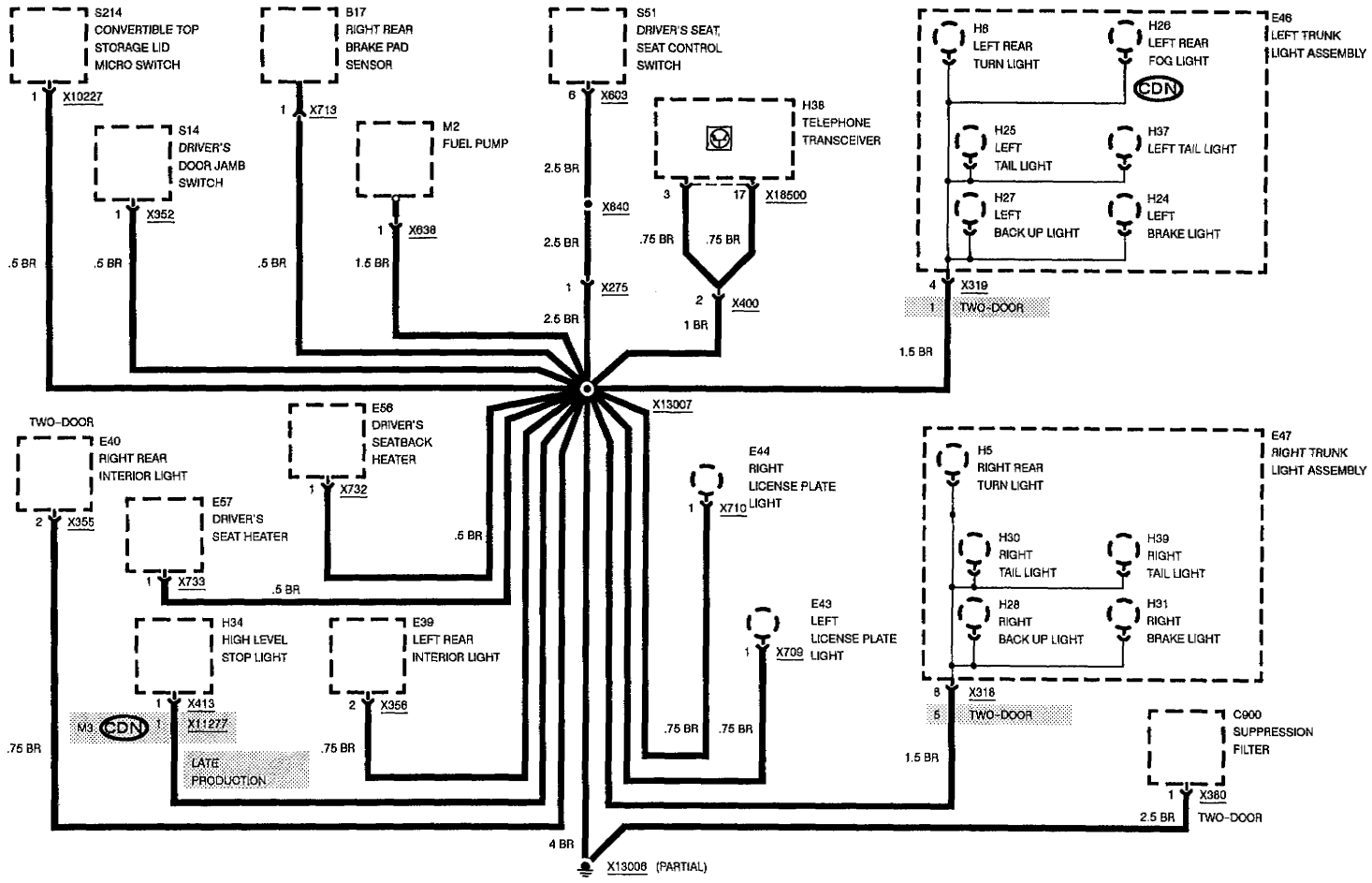
FOUR-DOOR



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GROUND DISTRIBUTION

GROUND X13006

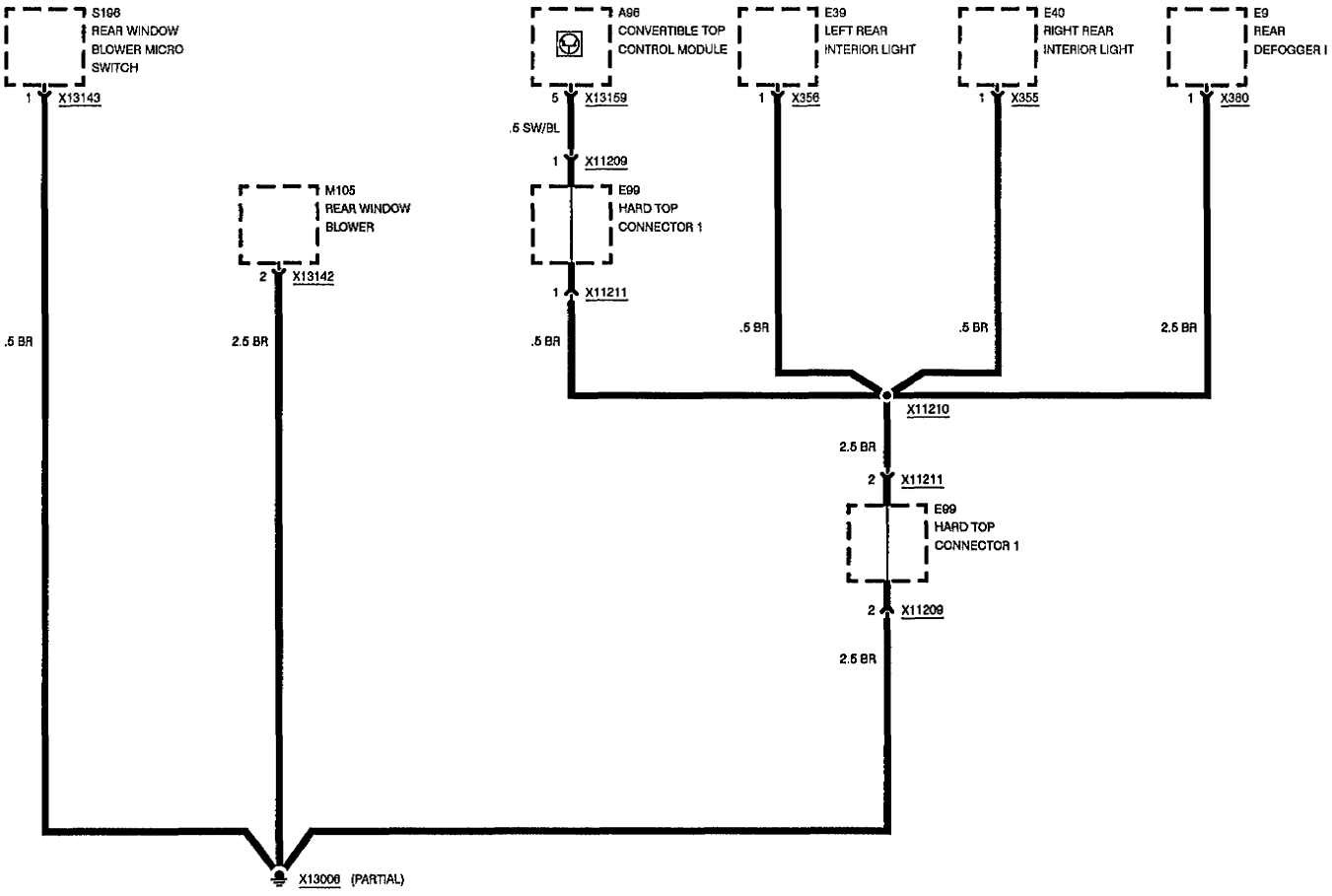


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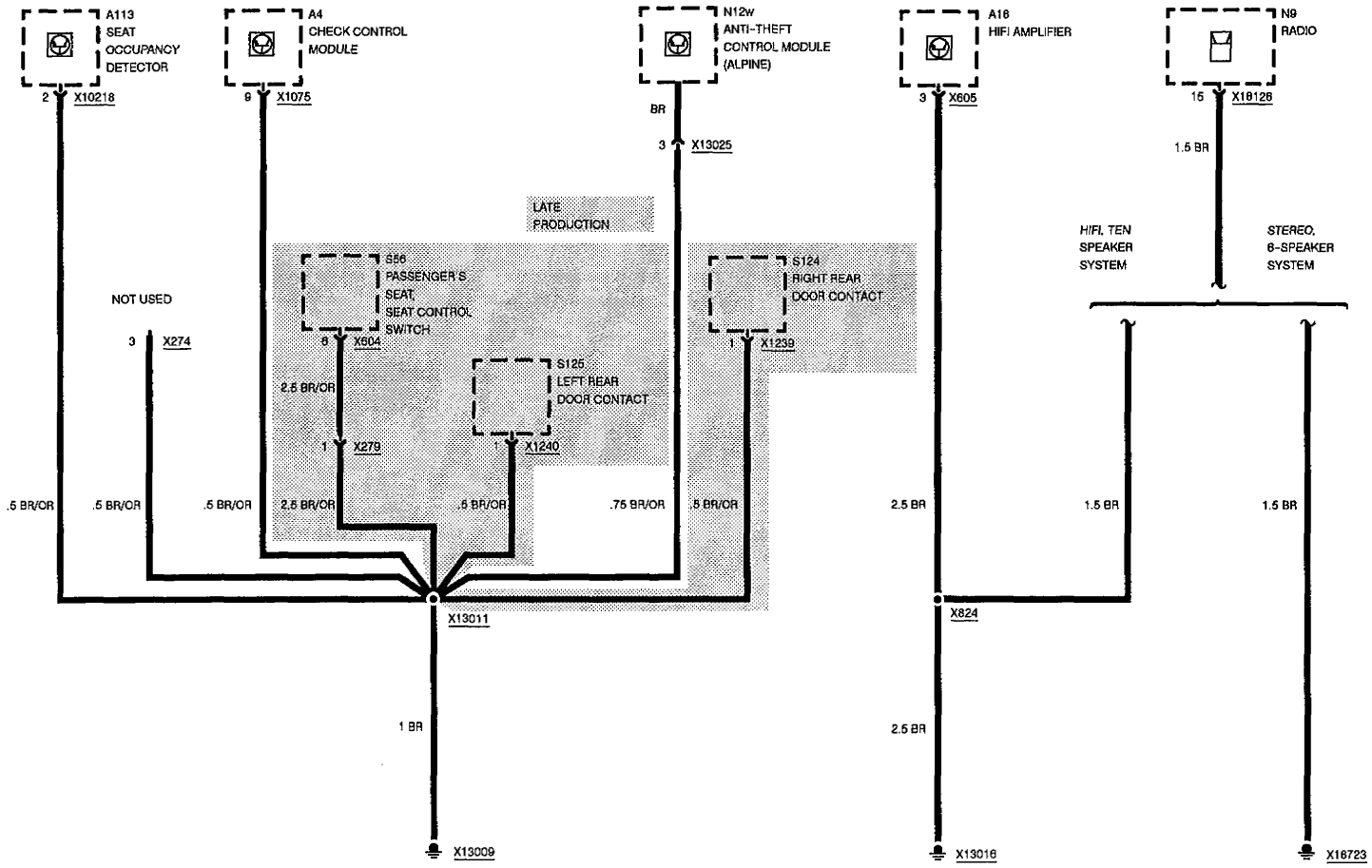
CONVERTIBLE



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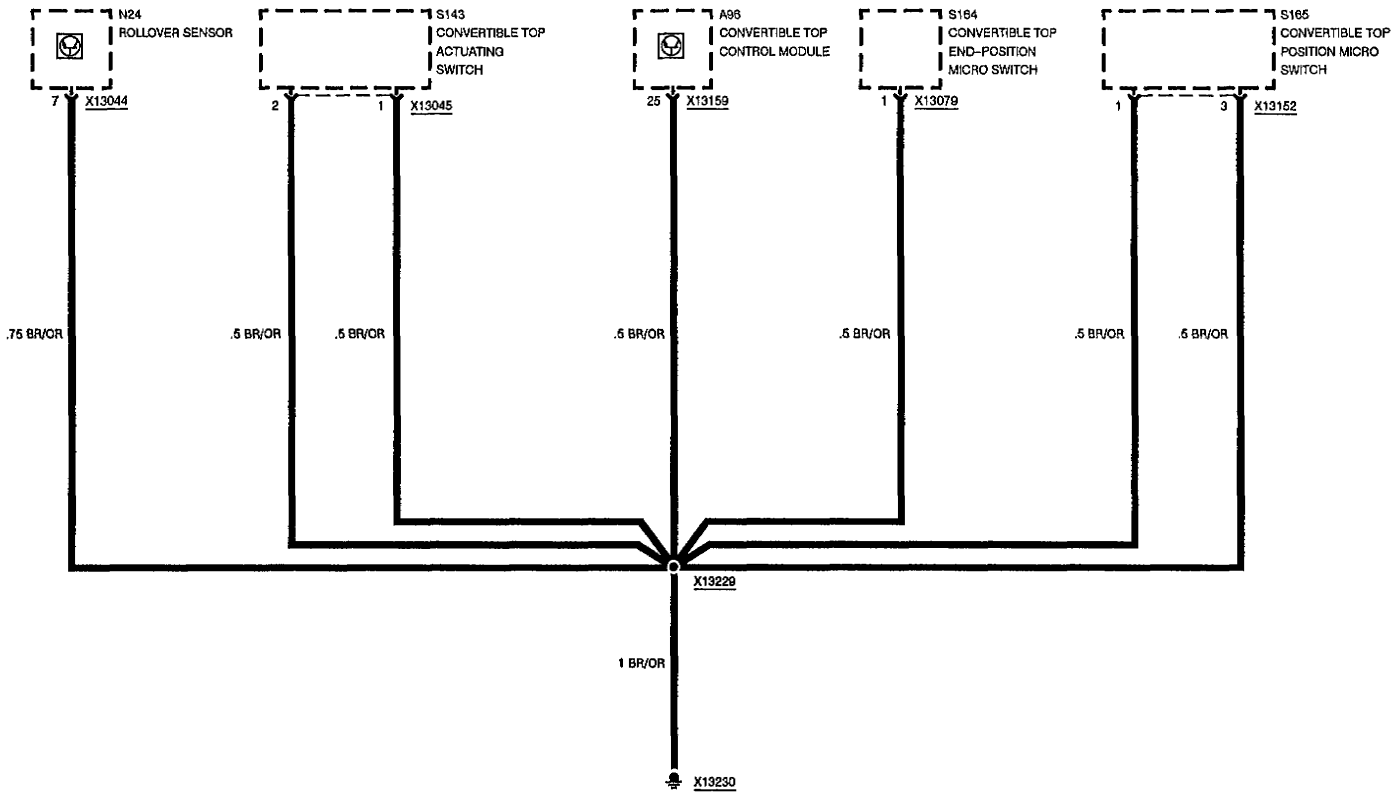
GROUNDS X13009, X13016, AND X18723



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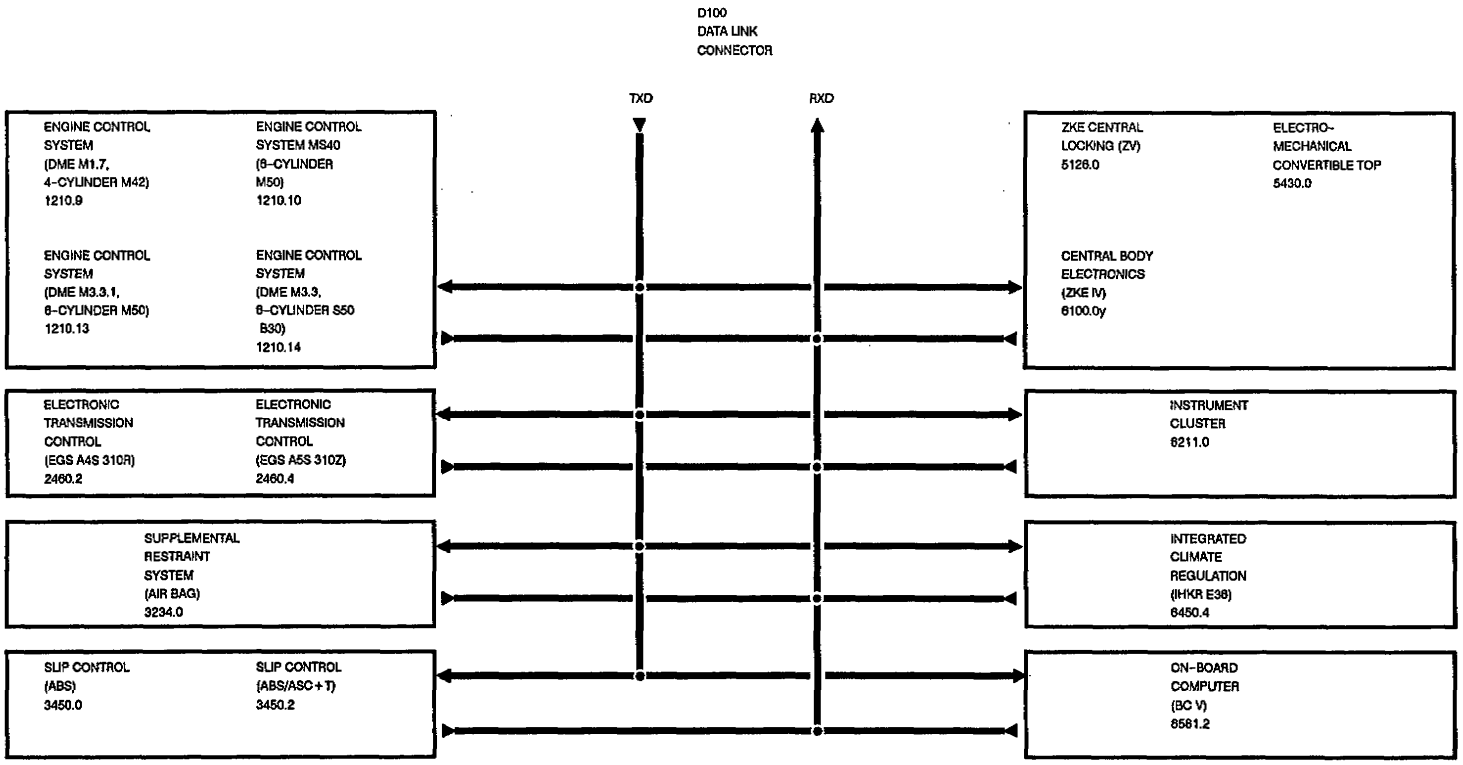
GROUND DISTRIBUTION

GROUND X13230



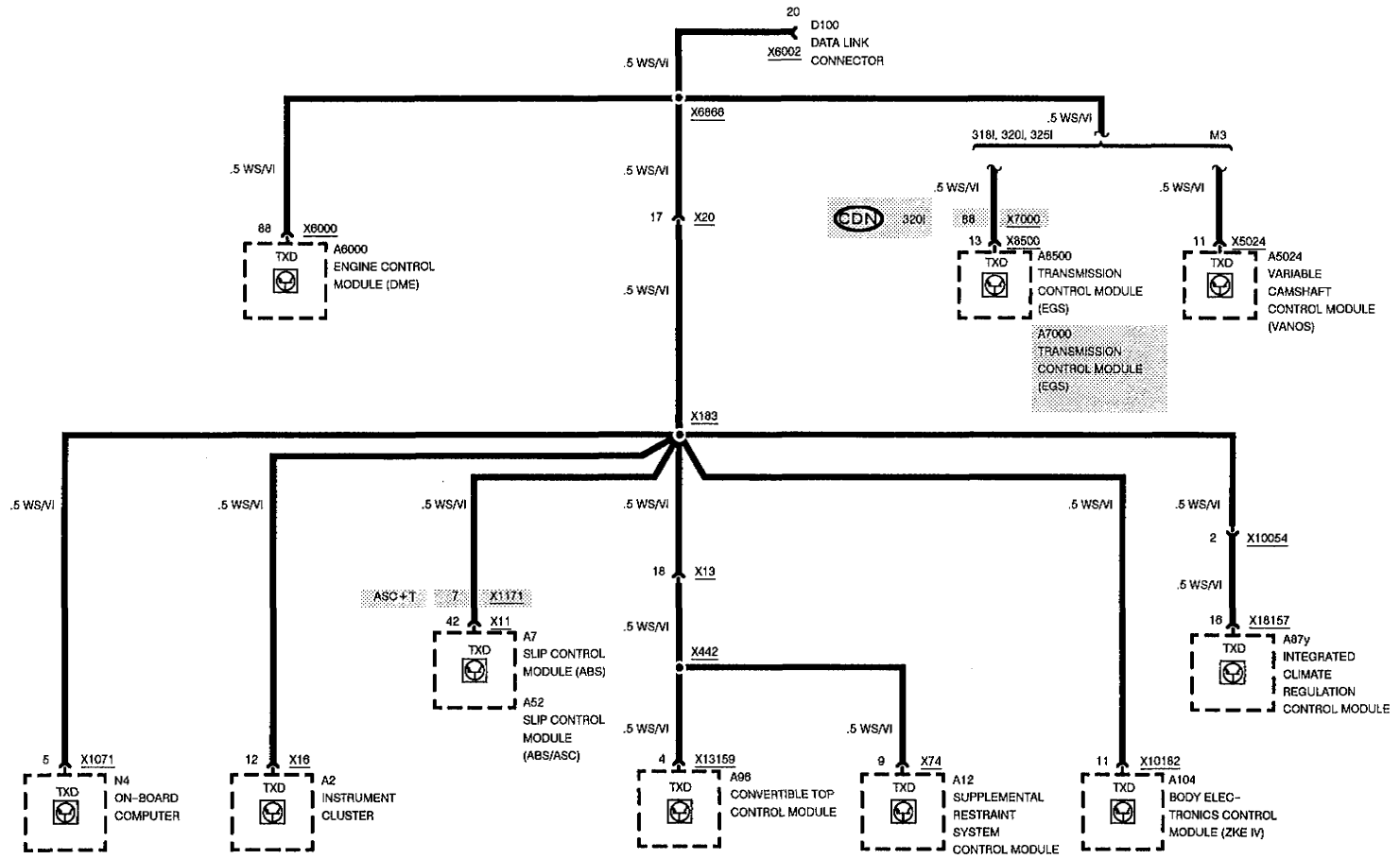
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DATA LINK
BLOCK DIAGRAM



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DATA LINK
TXD, PIN 20

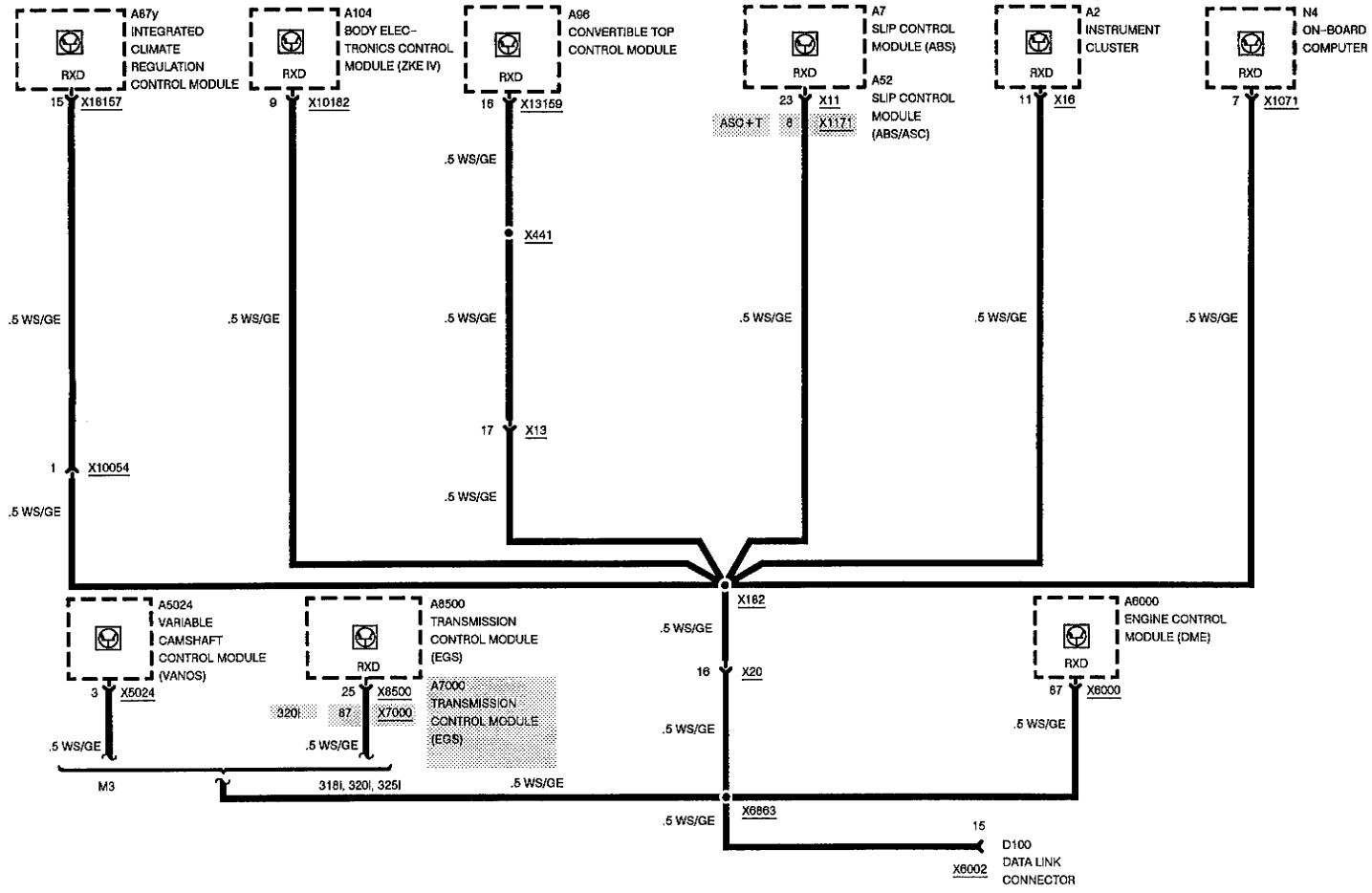


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RXD, PIN 15

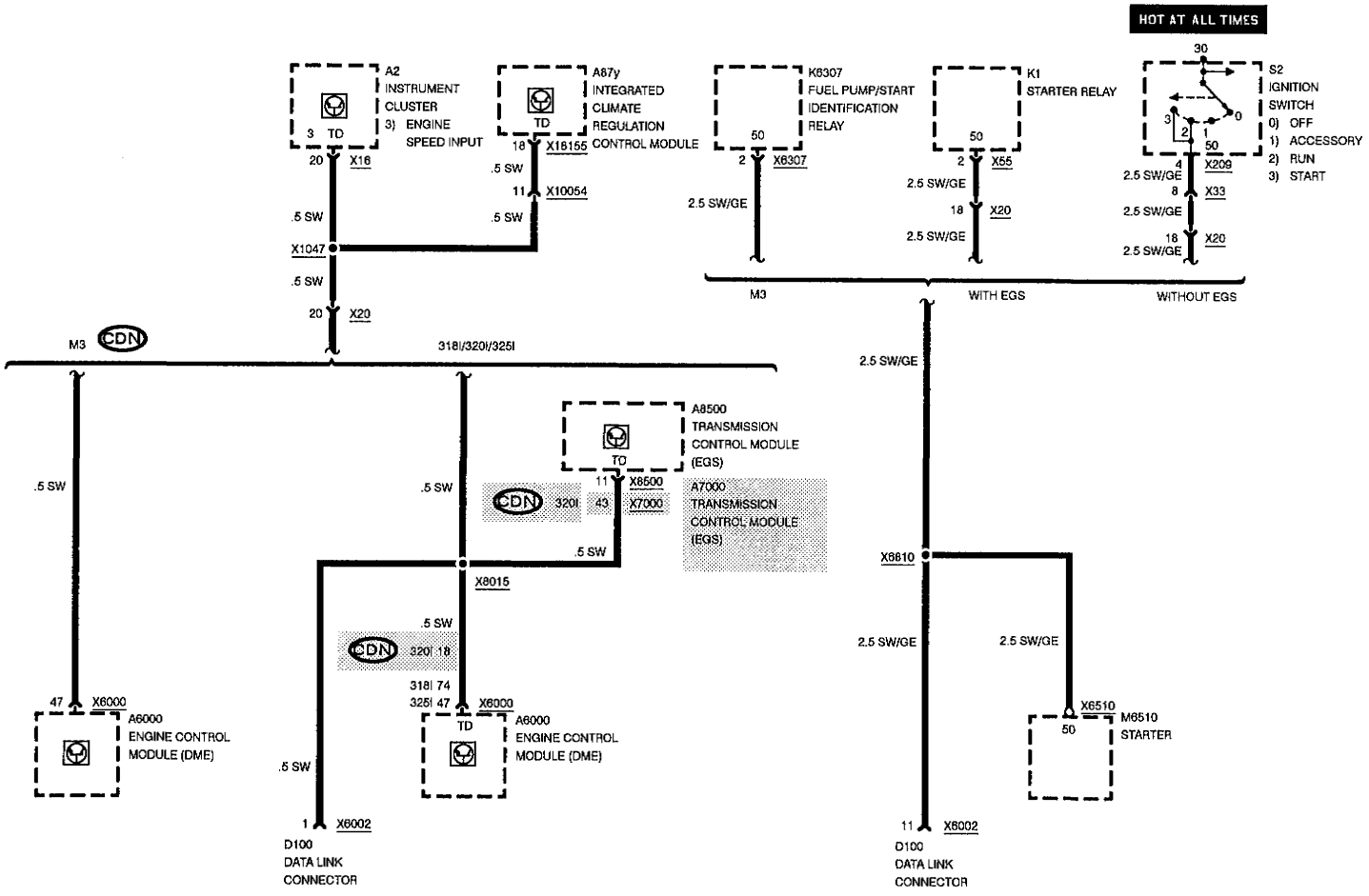


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DATA LINK

DATA LINK CONNECTOR PINS 1 AND 11

EARLY PRODUCTION

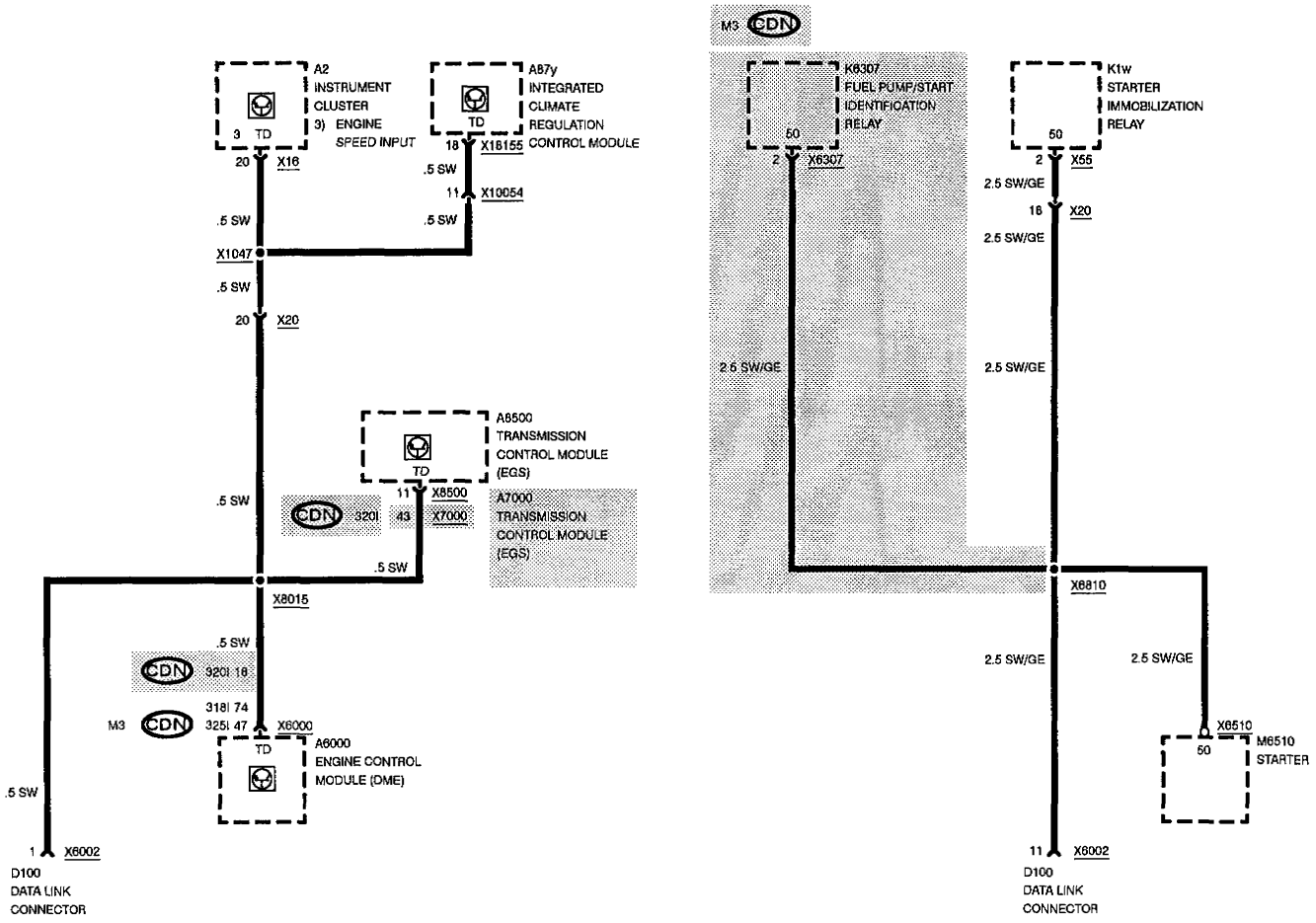


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DATA LINK CONNECTOR PINS 1 AND 11

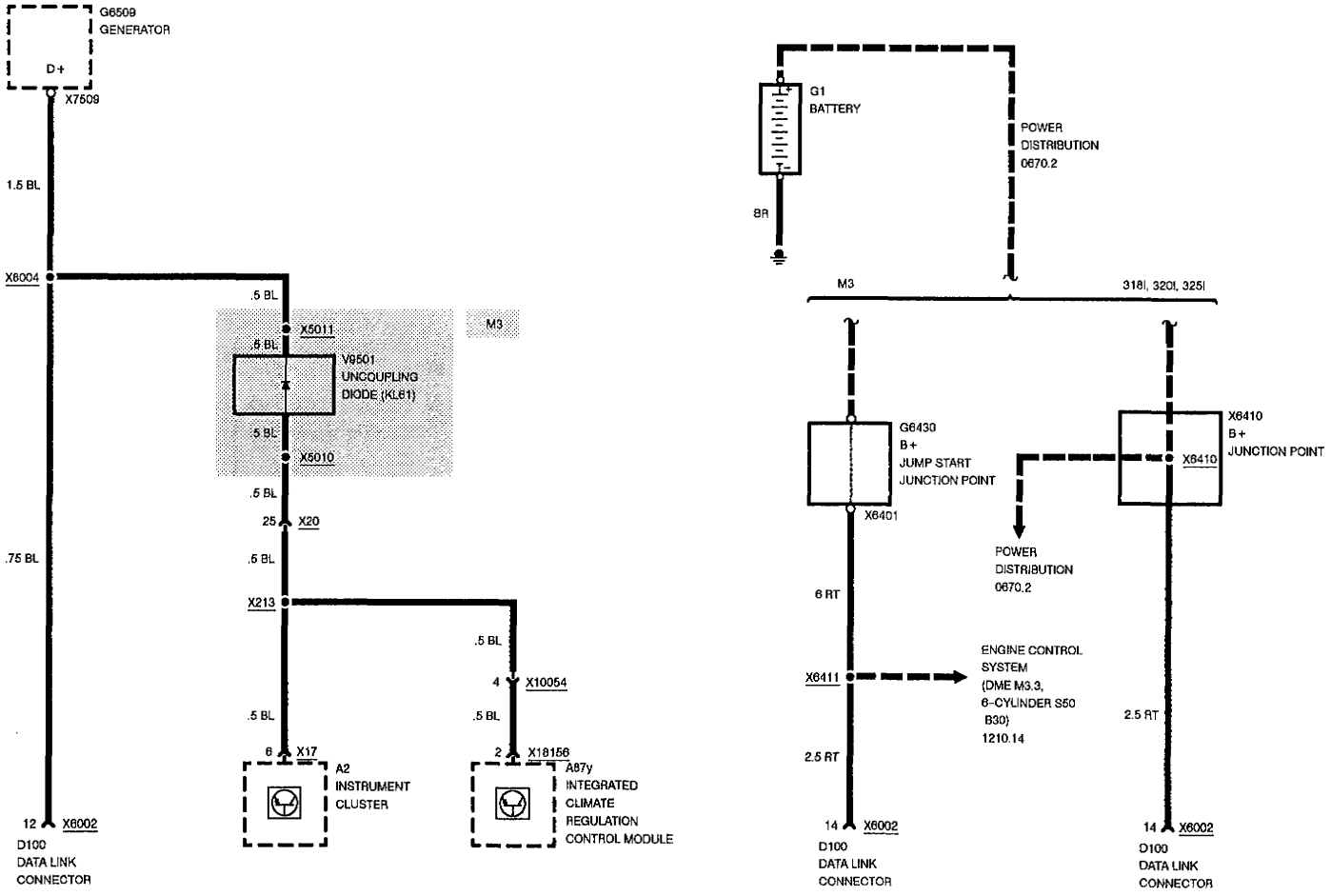
LATE PRODUCTION



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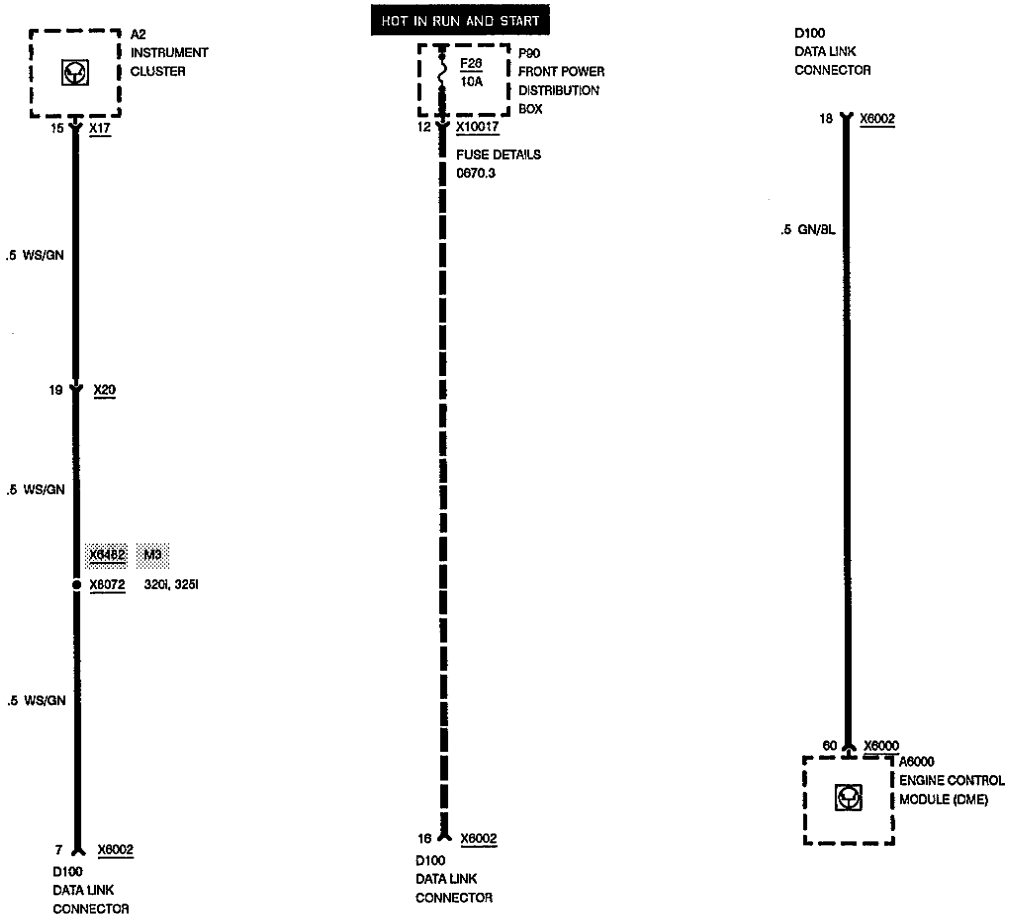
DATA LINK CONNECTOR PINS 12 AND 14



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DATA LINK

DATA LINK CONNECTOR PINS 7, 16, AND 18

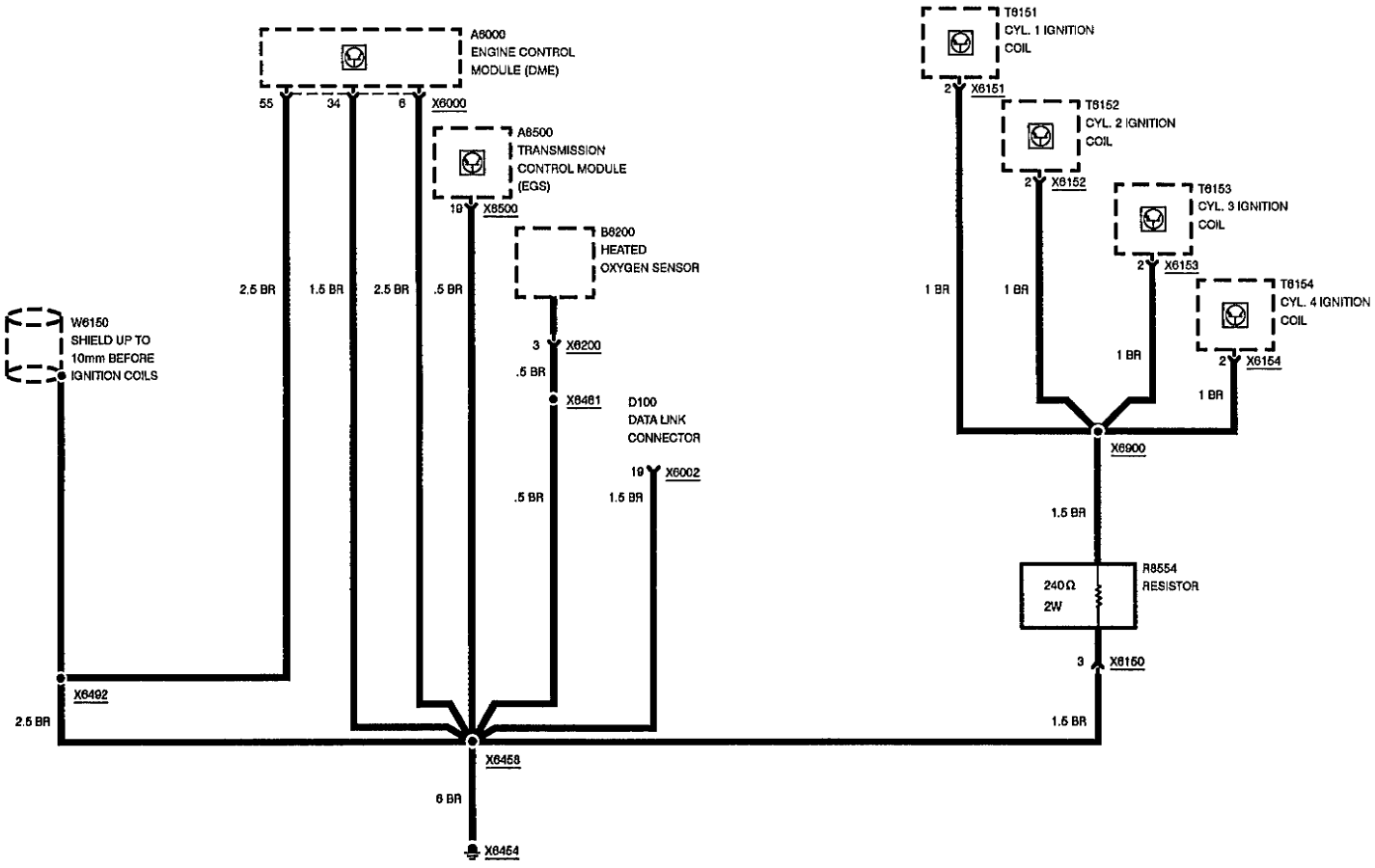


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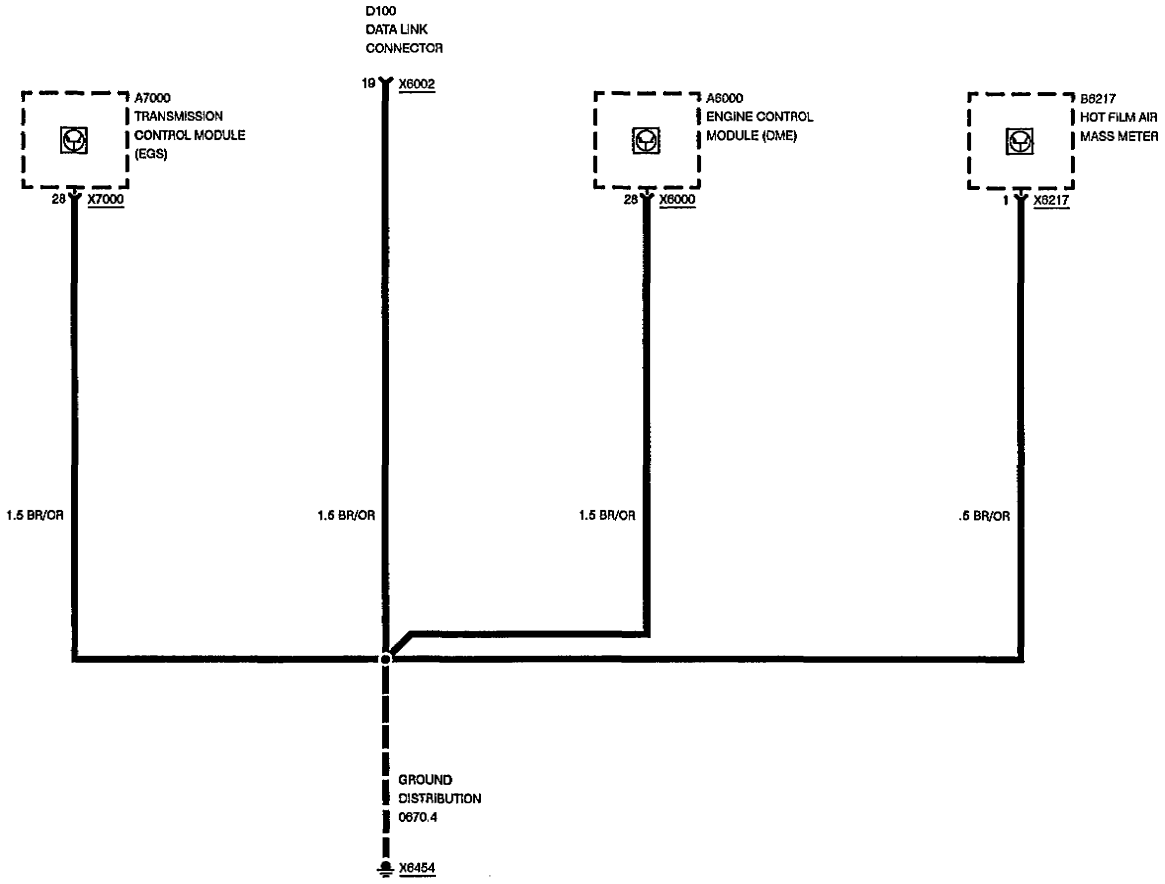
318i

DATA LINK CONNECTOR PIN 19



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DATA LINK CONNECTOR PIN 19

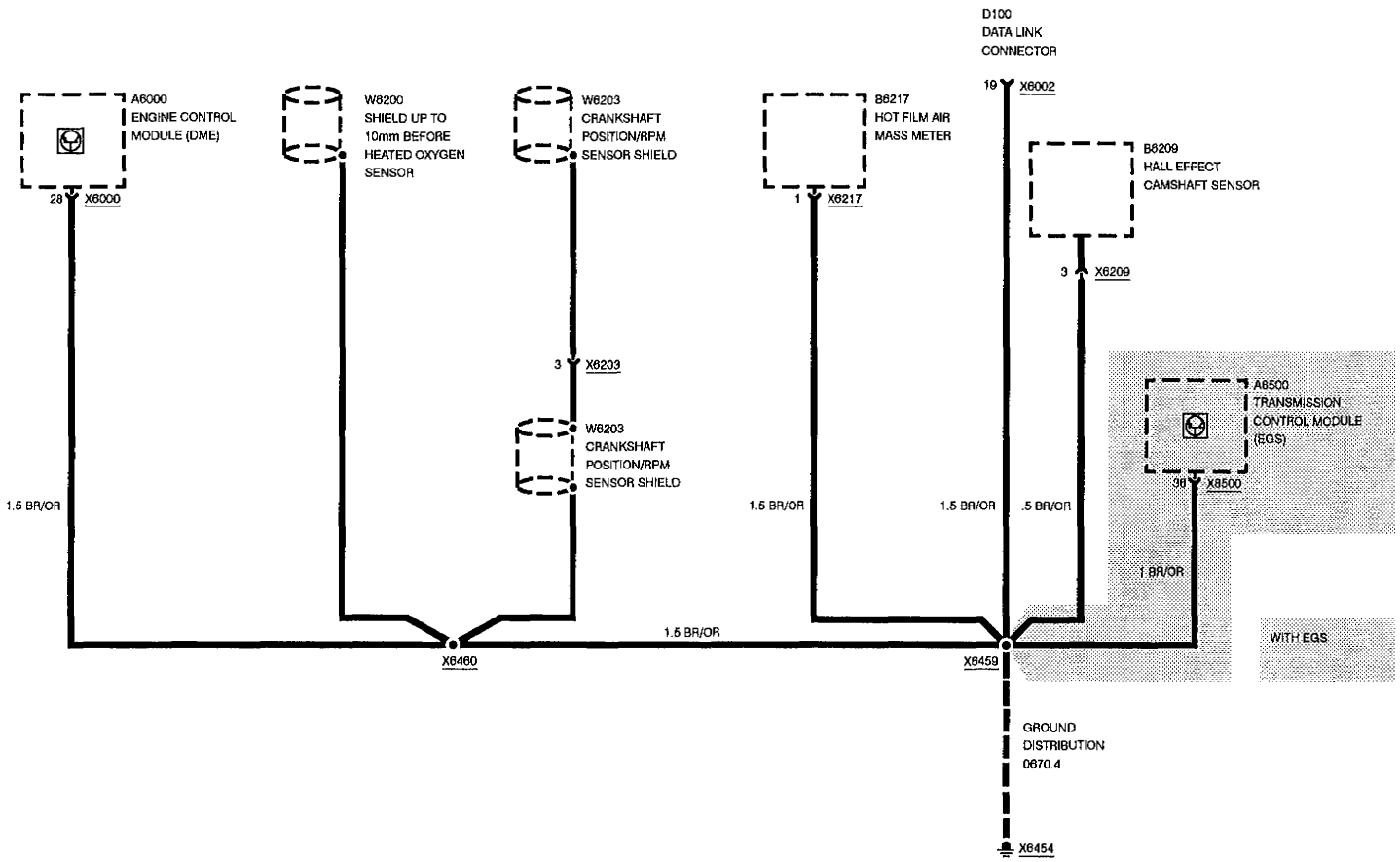


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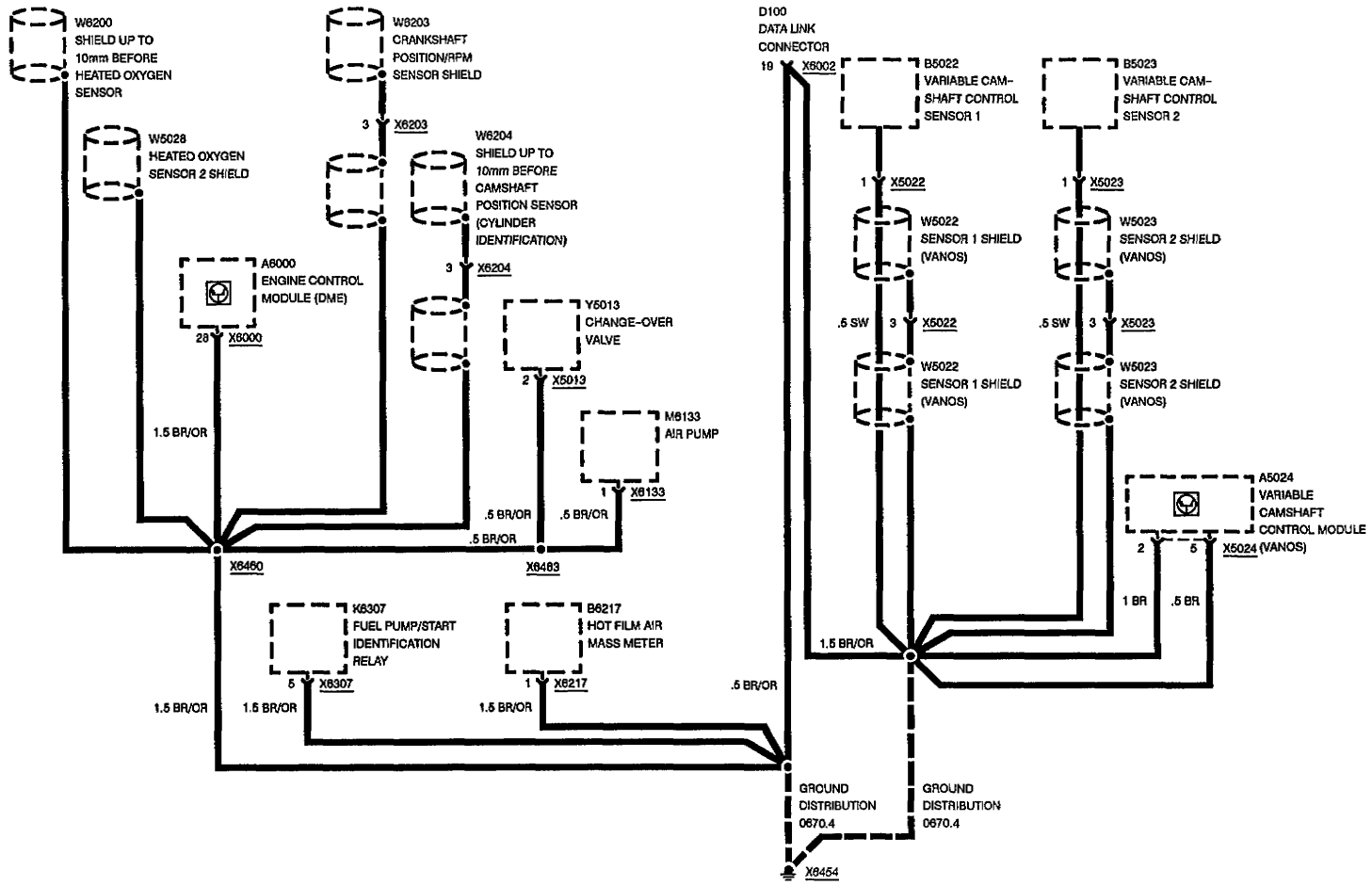
DATA LINK CONNECTOR PIN 19

325i



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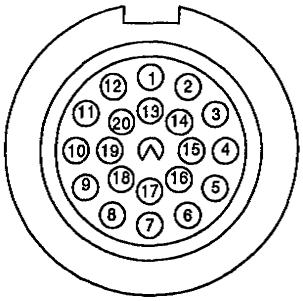
DATA LINK CONNECTOR PIN 19



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DATA LINK

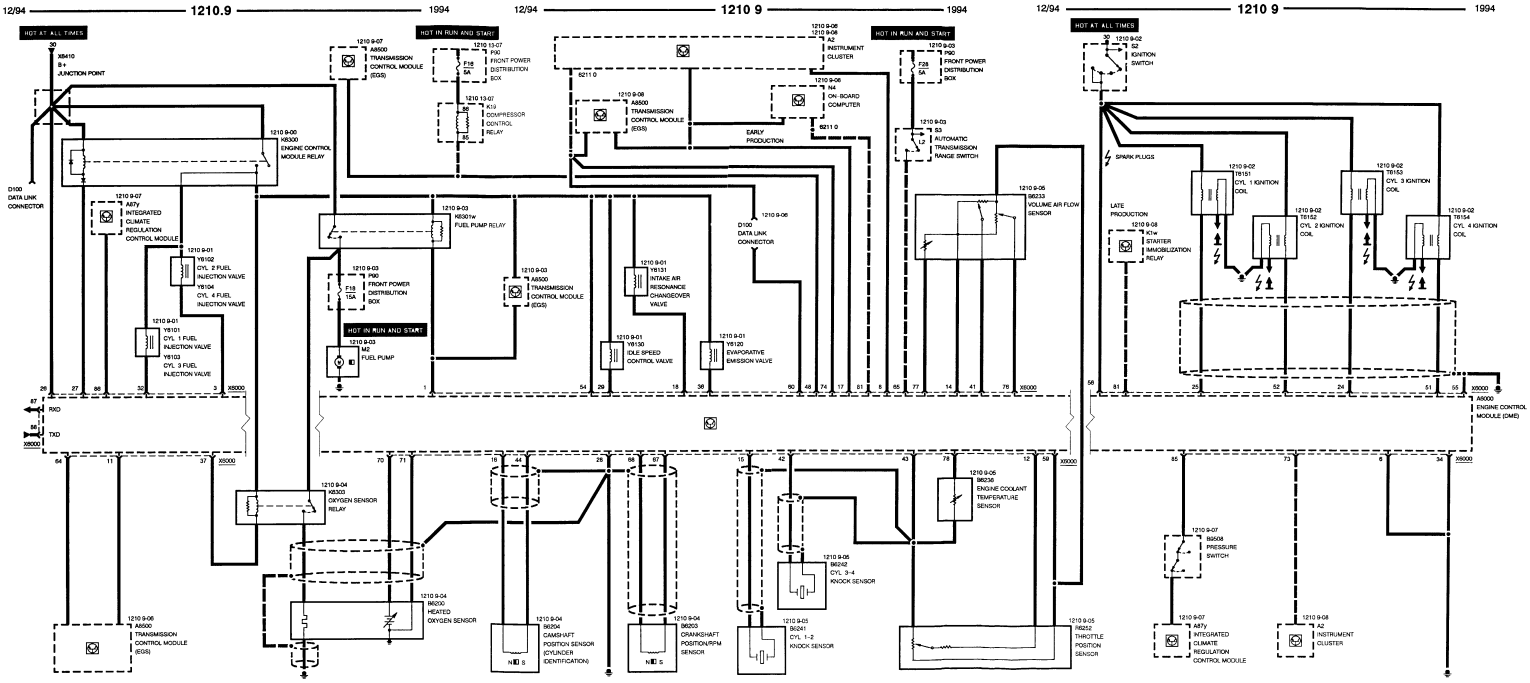
DATA LINK CONNECTOR (X6002)



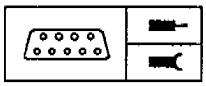
PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	–	MOTOR	SW
2	–	NOT OCCUPIED	
3	–	NOT OCCUPIED	
4	–	NOT OCCUPIED	
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE
12	61(D+)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

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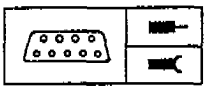
Pin Assignments

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 potentiomenter signal	Transmission control module (EGS)
12	E	Throttle position	Throttle position sensor
13		Not used	
14	E	Volume air flow sensor	Volume air flow sensor
15	E	Cyl. 1-2 knock sensor	Cyl. 1-2 knock sensor
16	E	Camshaft position sensor (cylinder identification)	Camshaft position sensor (cylinder identification)
17	A	Ti-measurement signal (fuel consumption)	Instrument cluster
18	A	Intake air resonance changeover valve control	Intake air resonance changeover valve
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
25	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground

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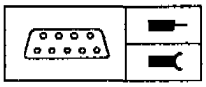


Pin Assignments

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

E = Input, A = Output, M = Ground

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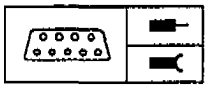


Pin Assignments

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

E = Input, A = Output, M = Ground

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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

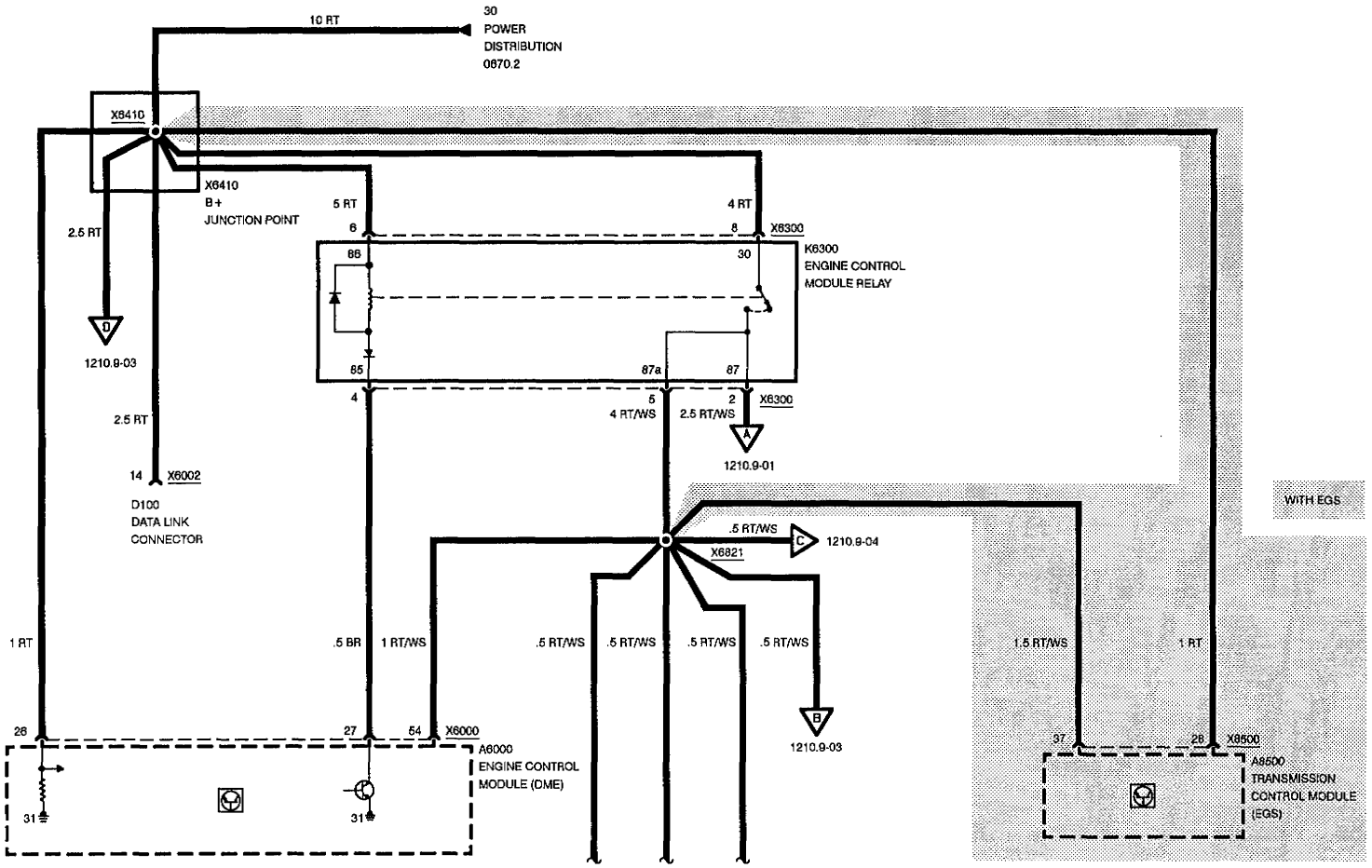
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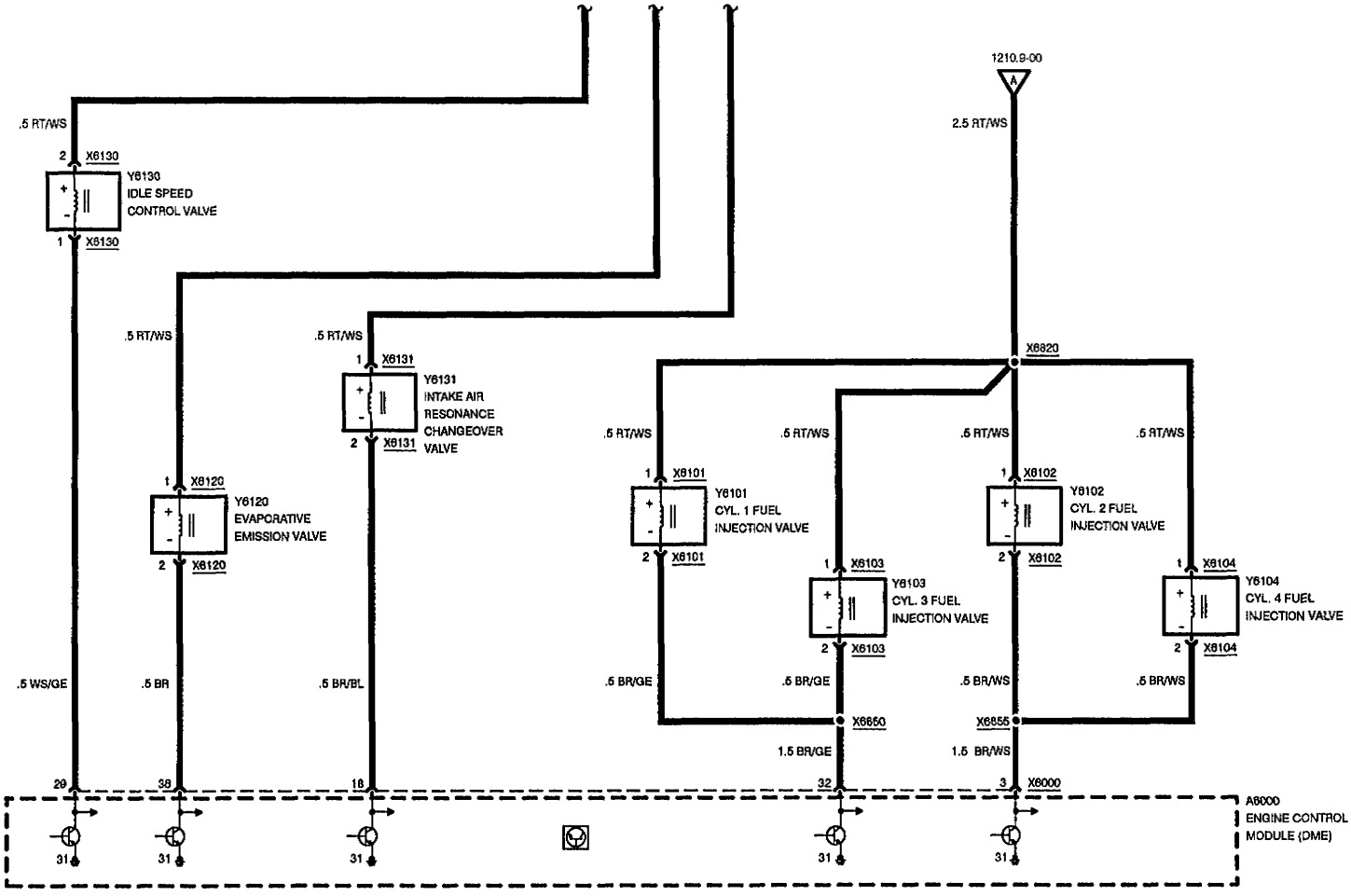
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ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

POWER, FUEL INJECTION VALVES



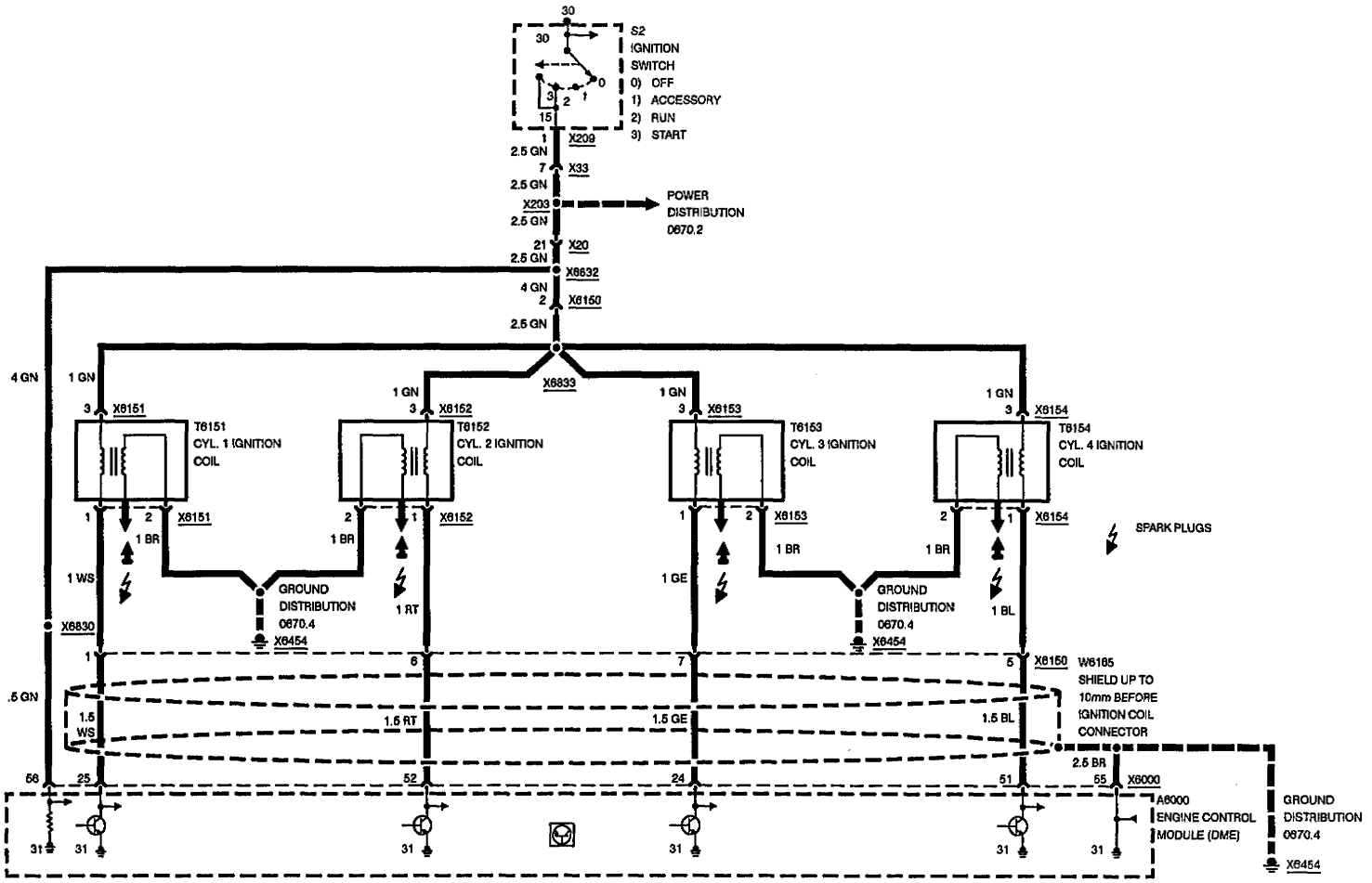
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ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

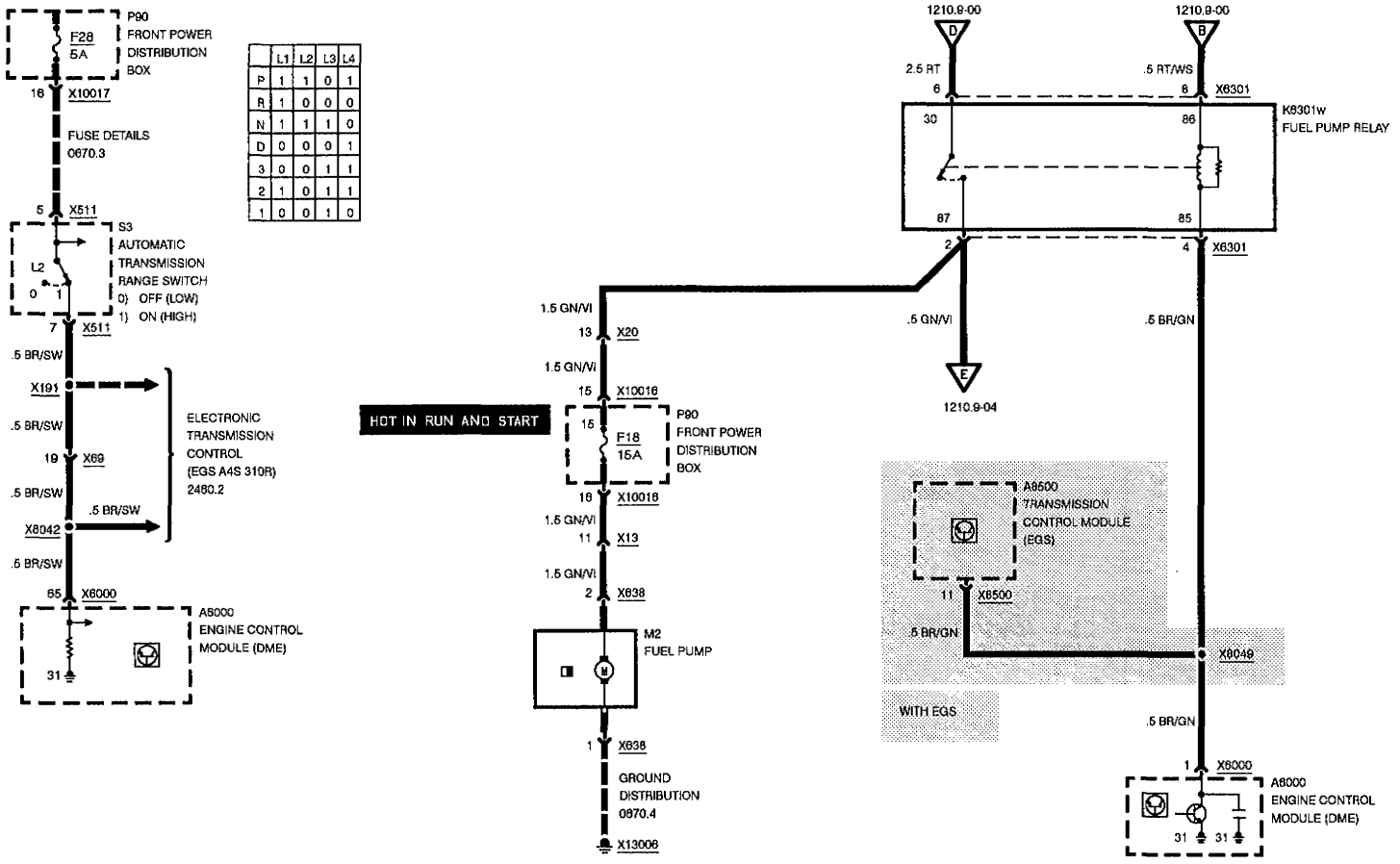
IGNITION COILS



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

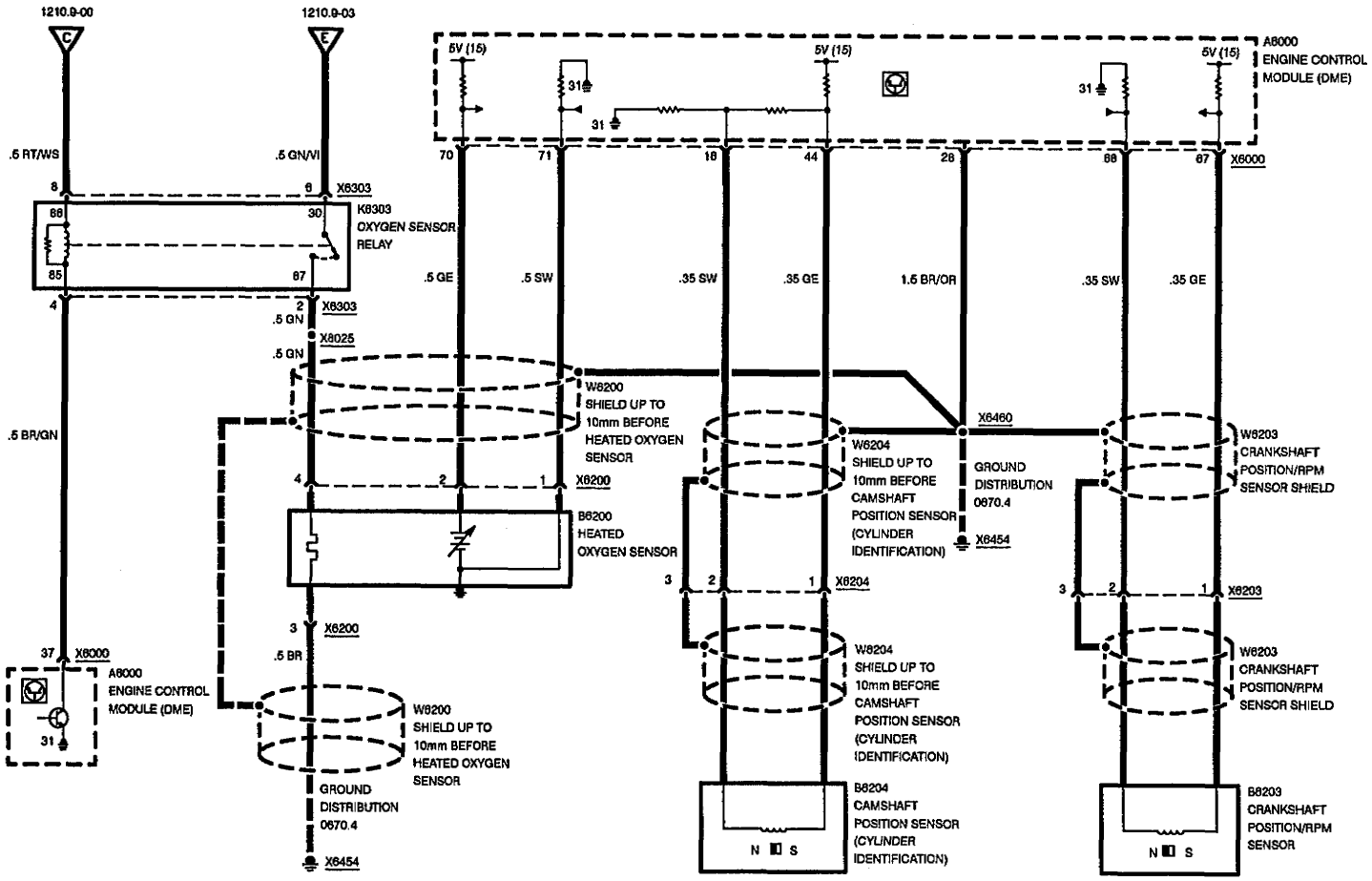
FUEL PUMP



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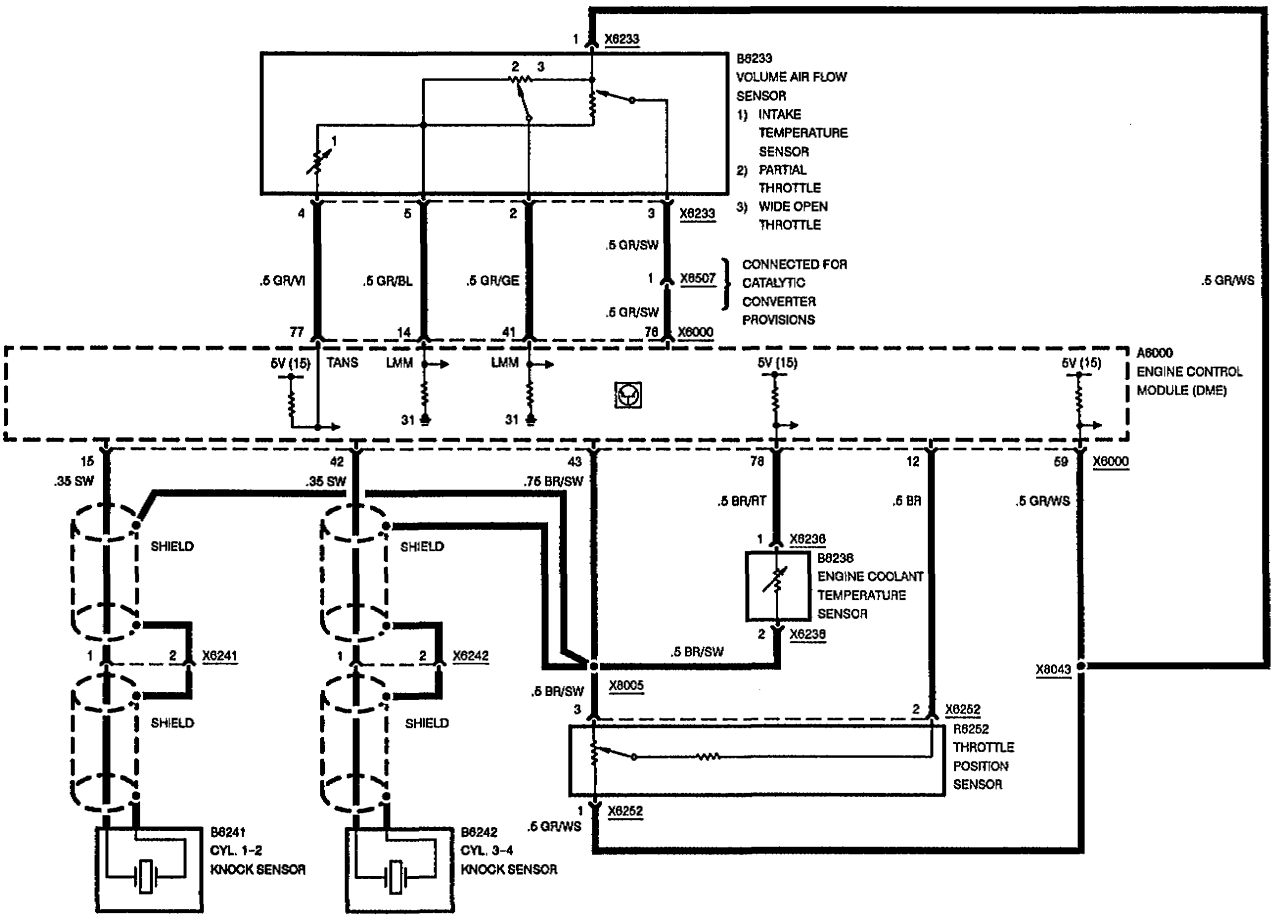
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



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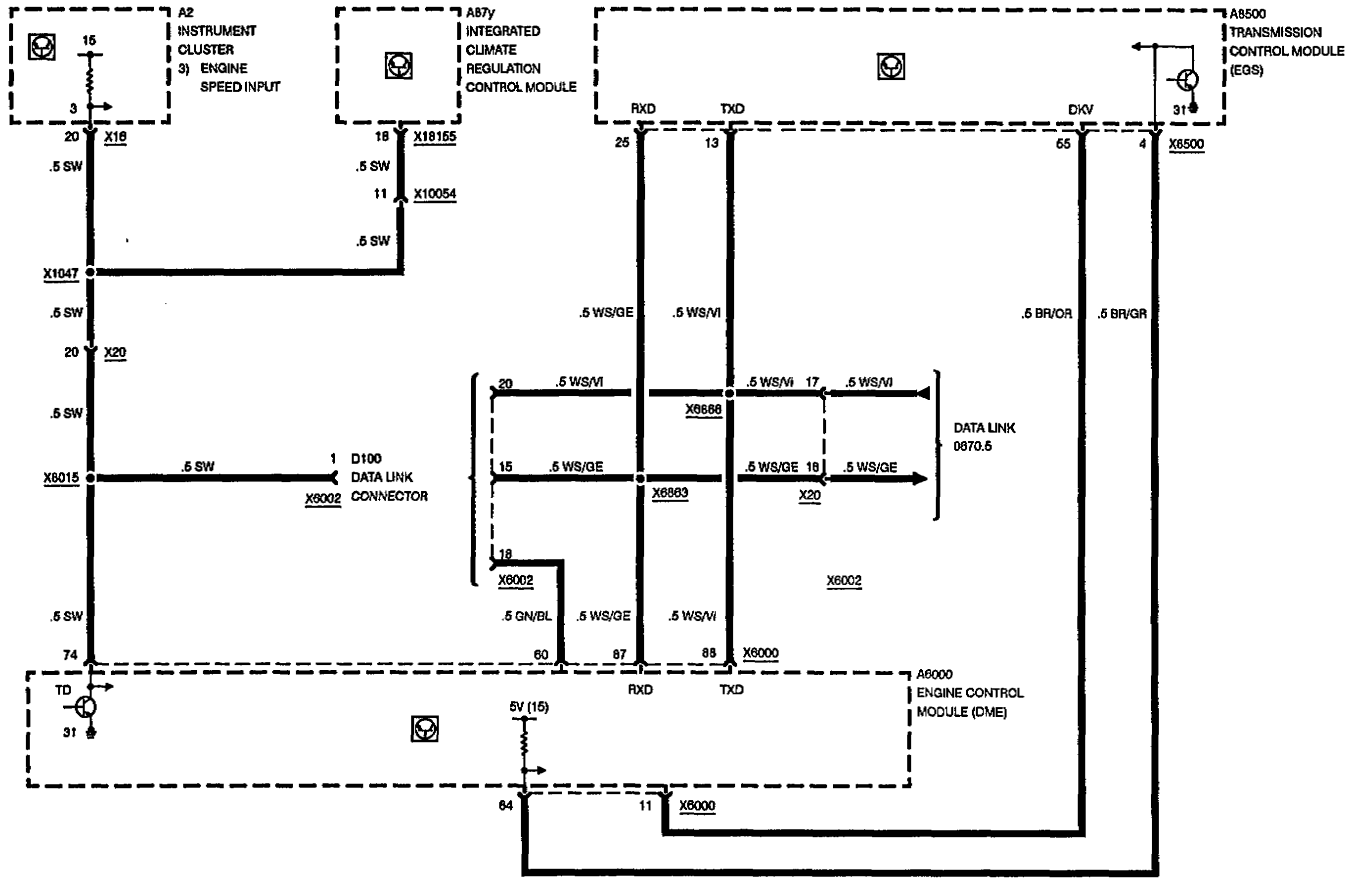
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



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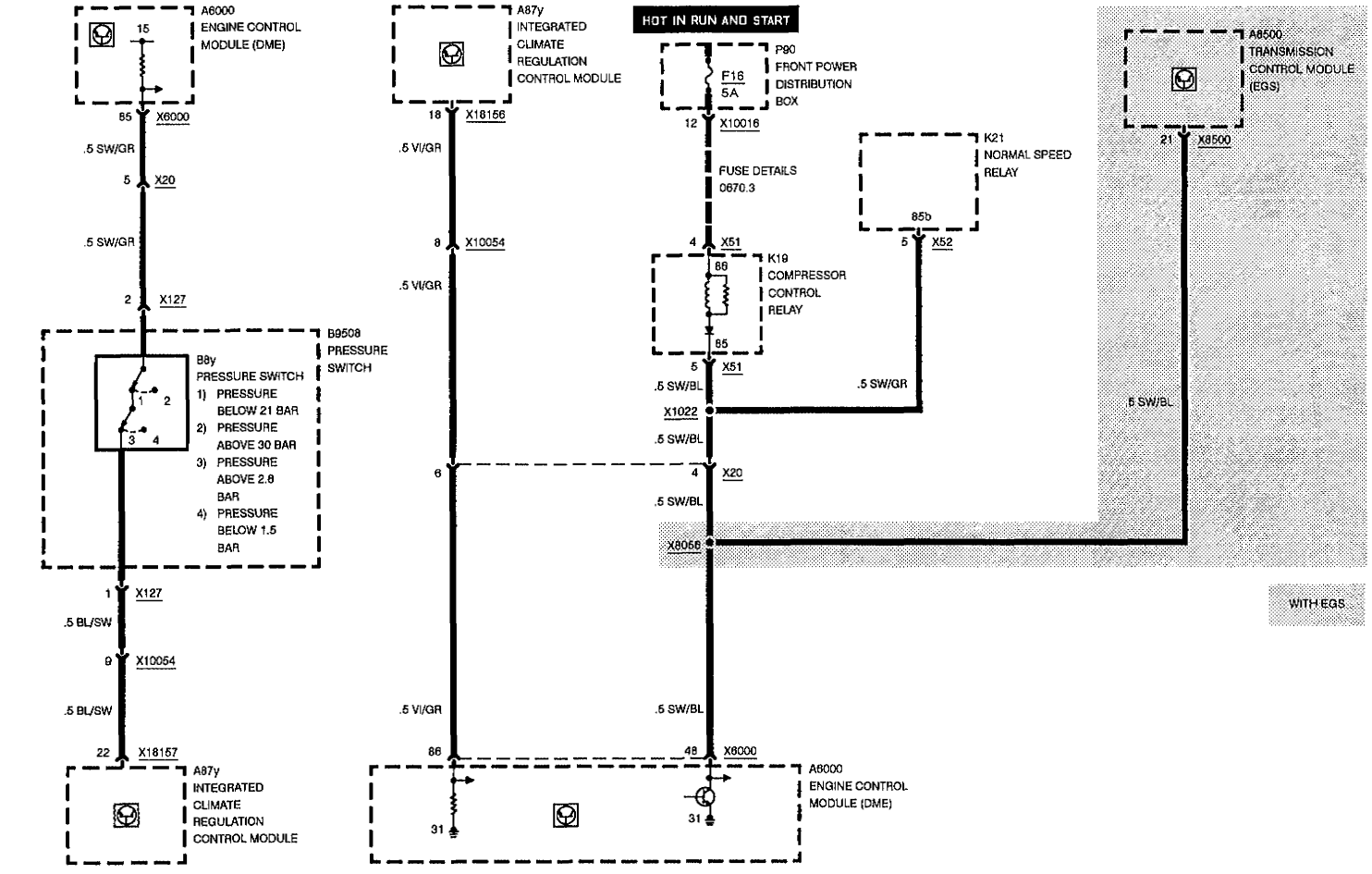
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

DATA LINK



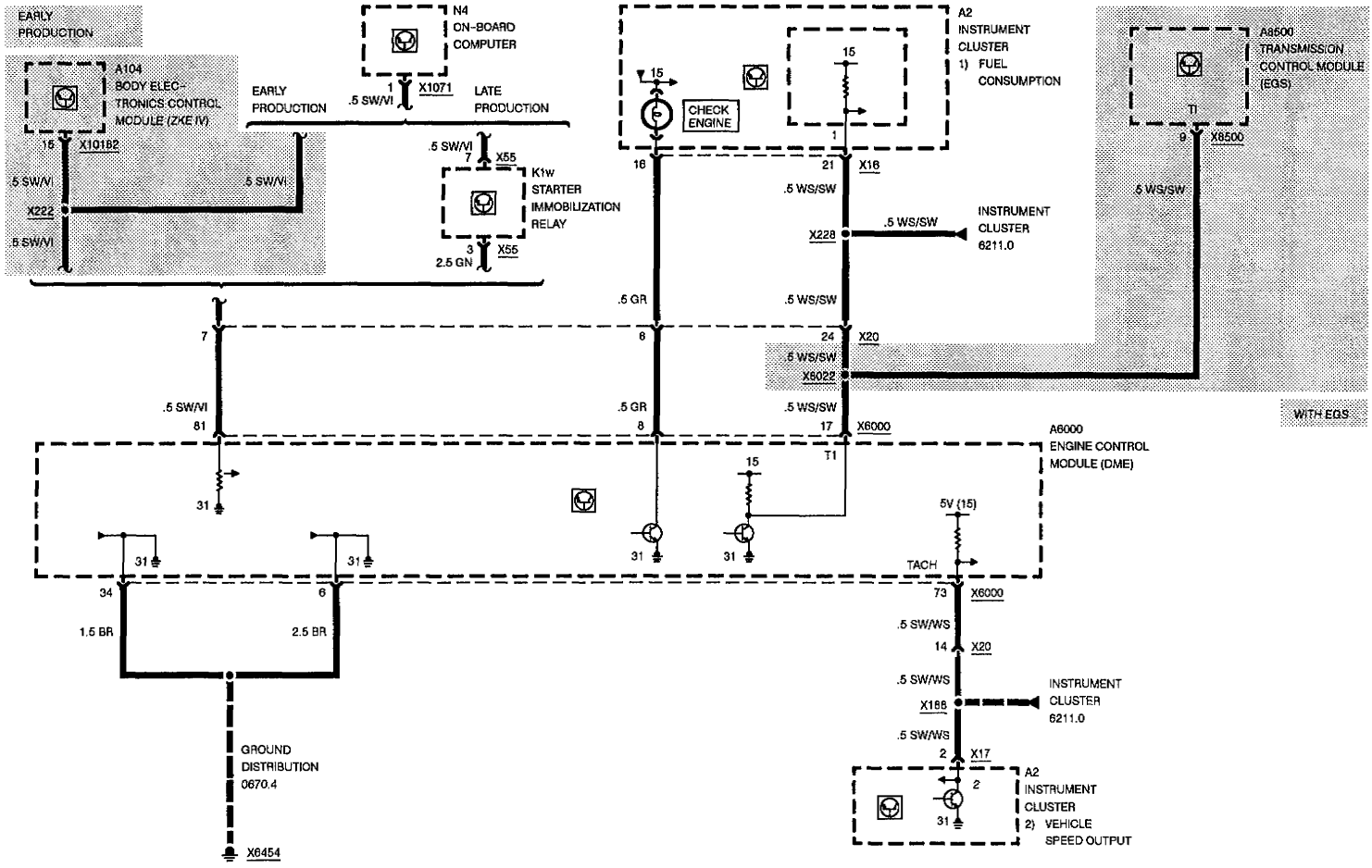
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ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

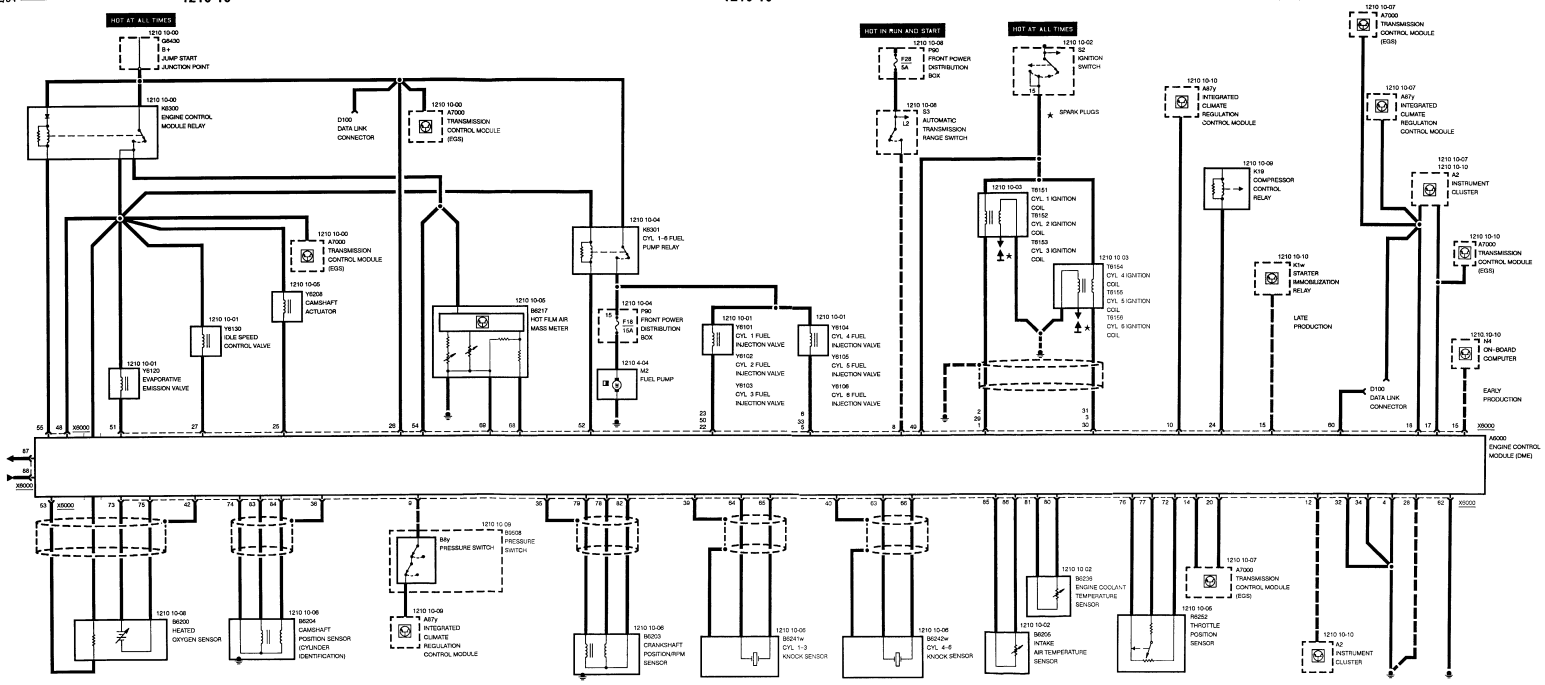


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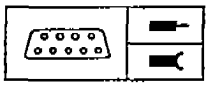
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



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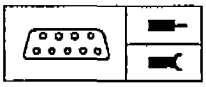
Pin Assignments

X6000

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

E = Input, A = Output, M = Ground

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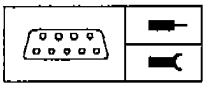


Pin Assignments

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

E = Input, A = Output, M = Ground

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Pin Assignments

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

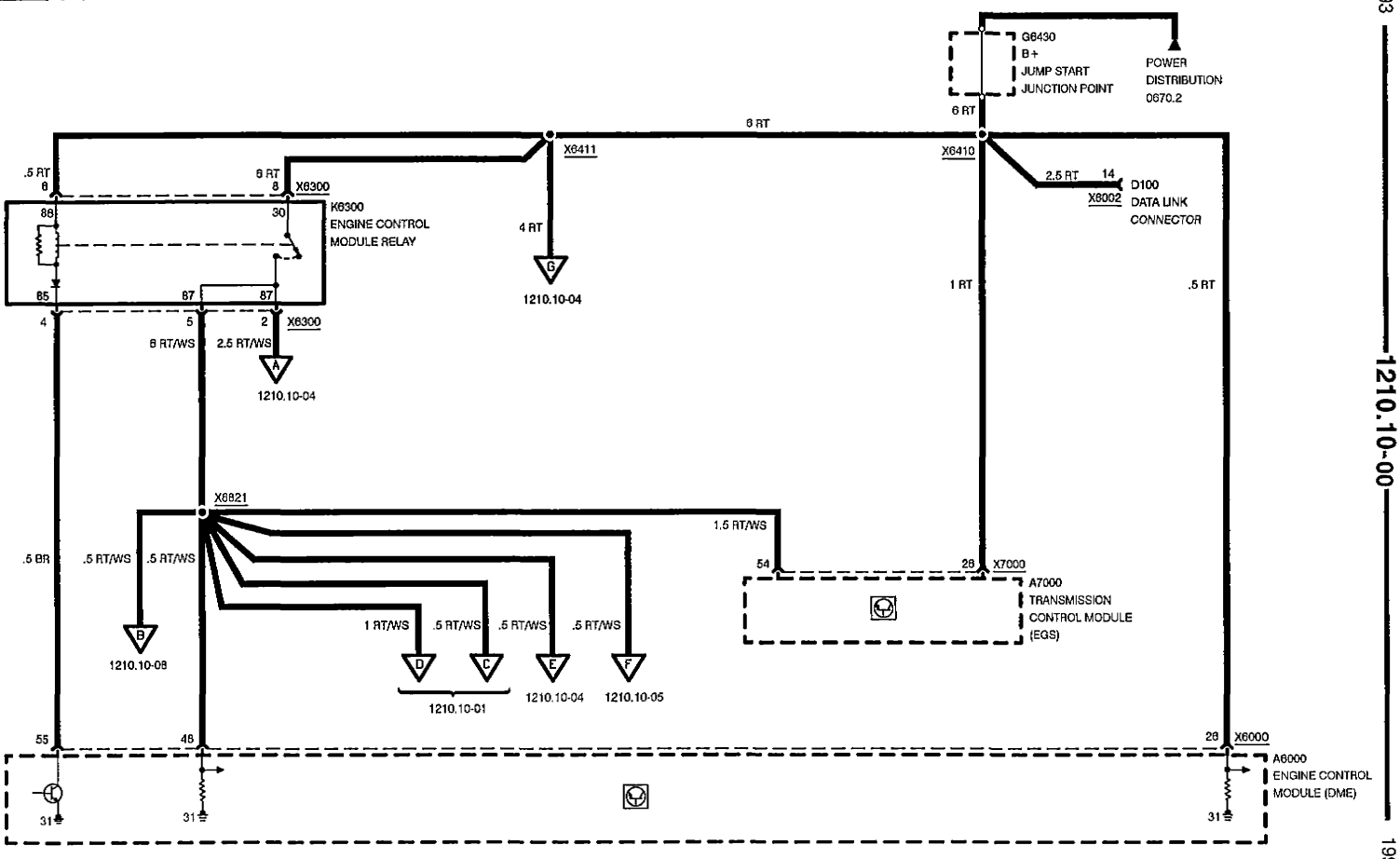
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ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

CDN

POWER

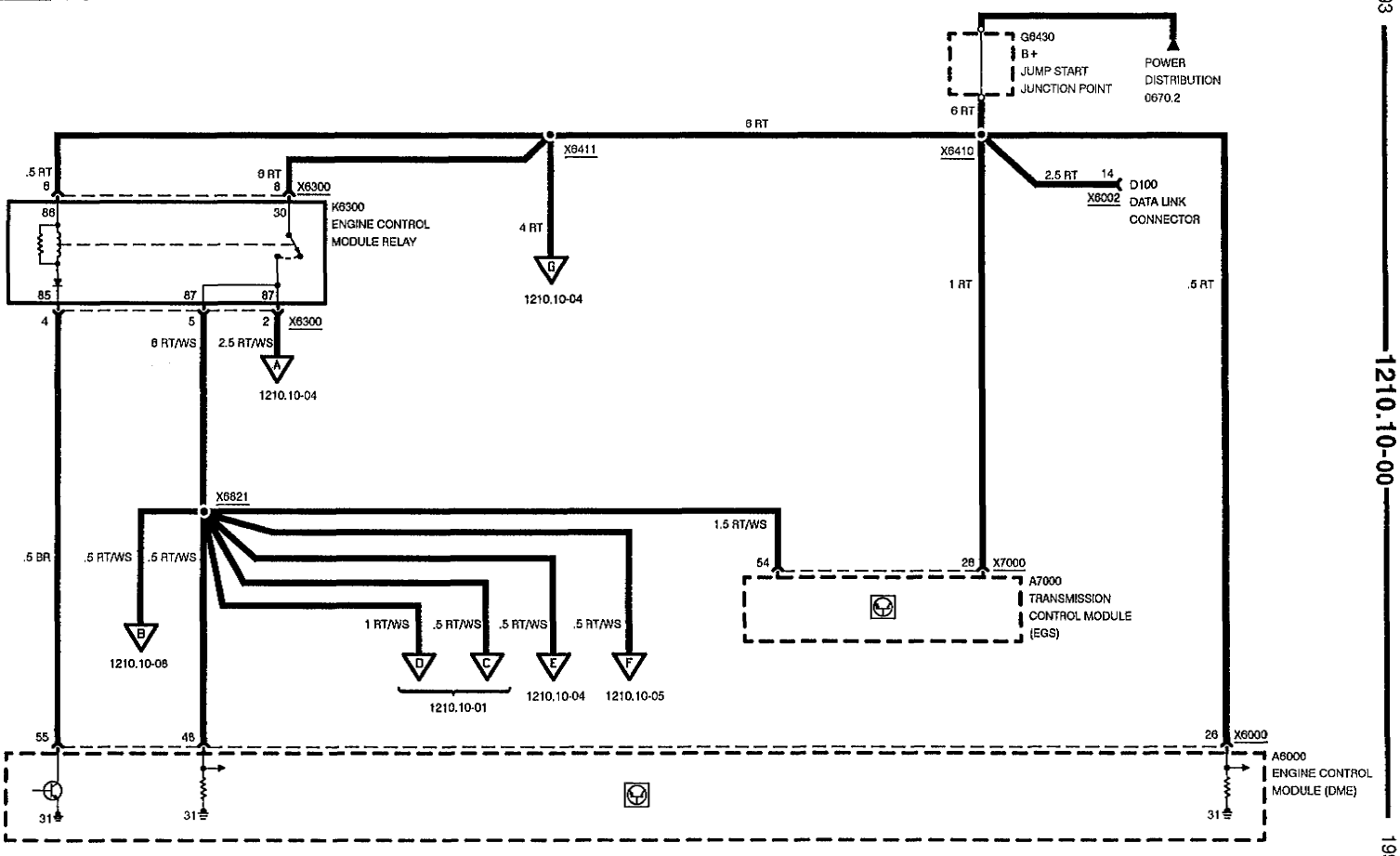


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ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

CDN

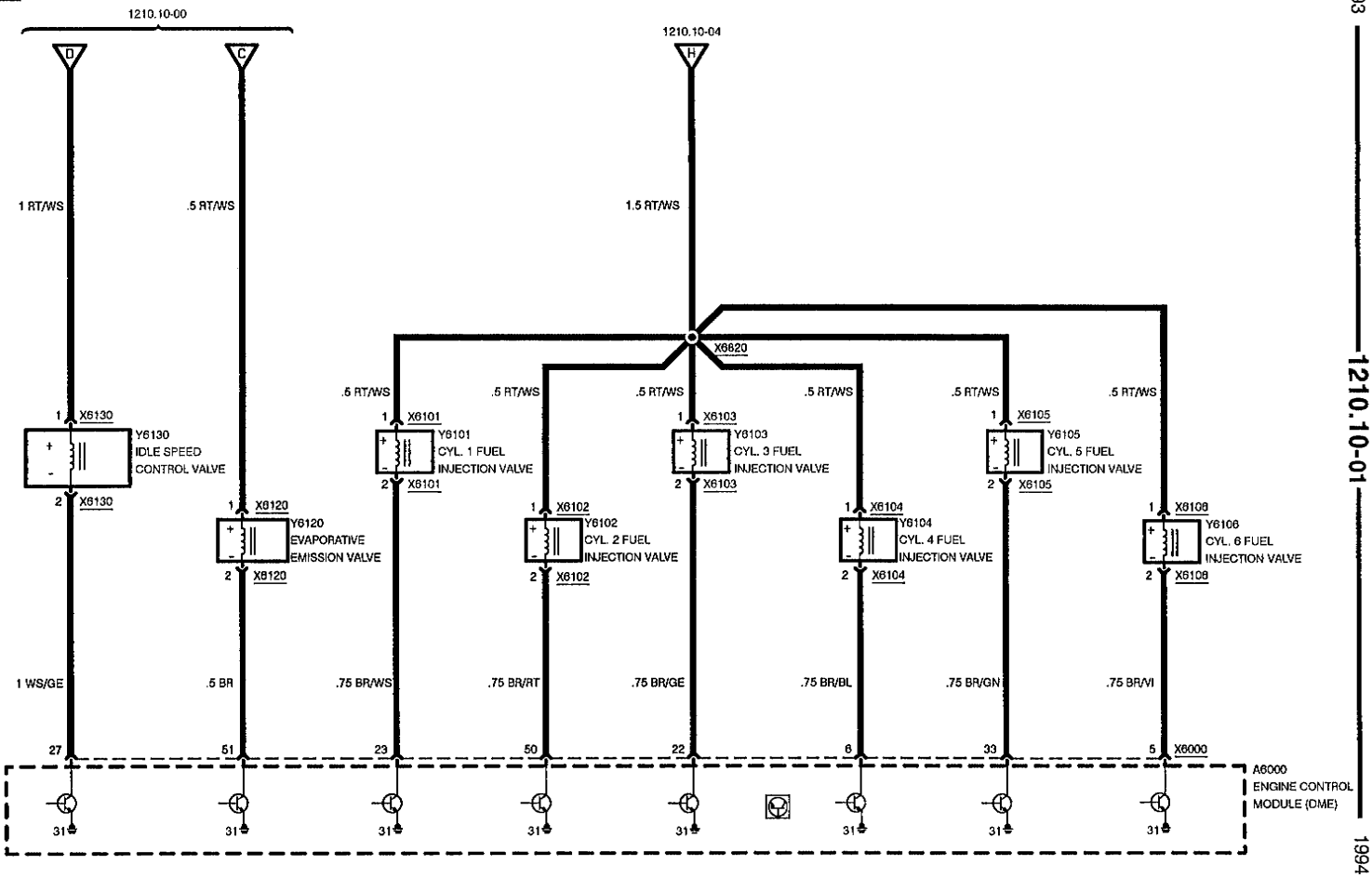
POWER



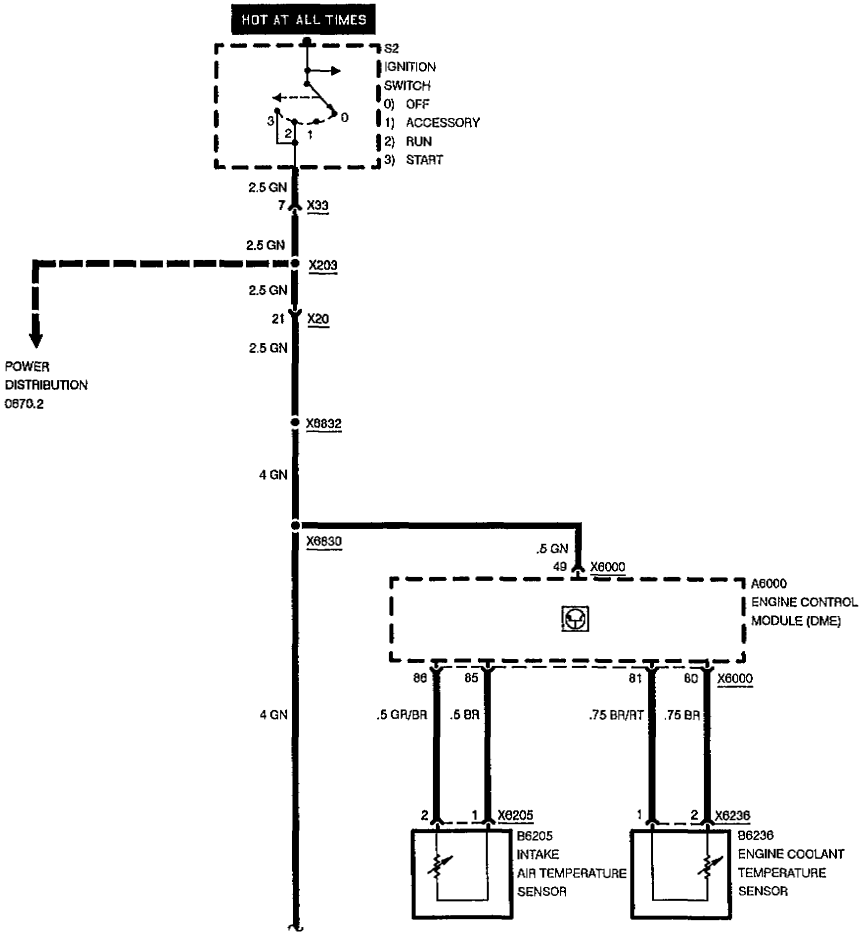
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ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

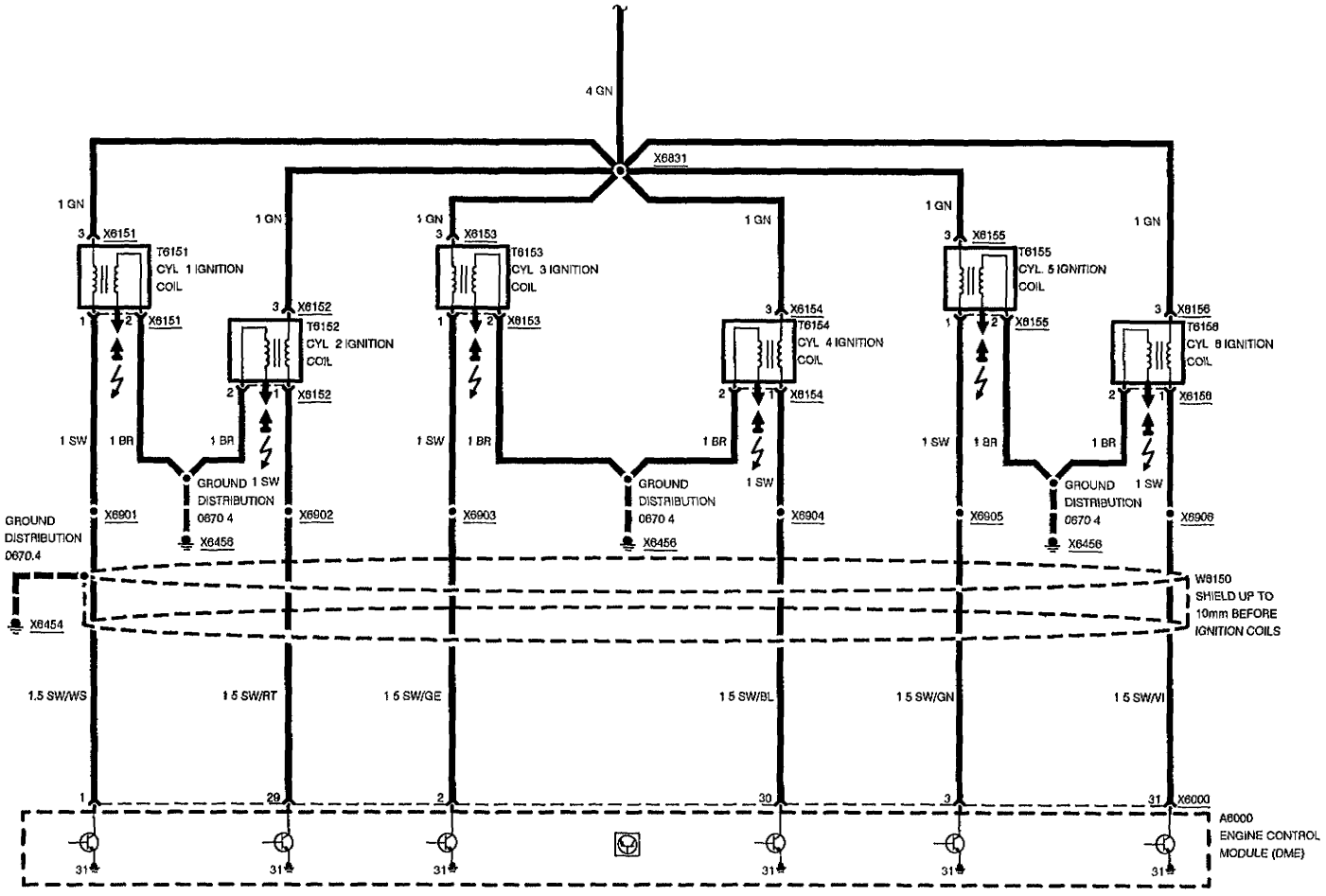
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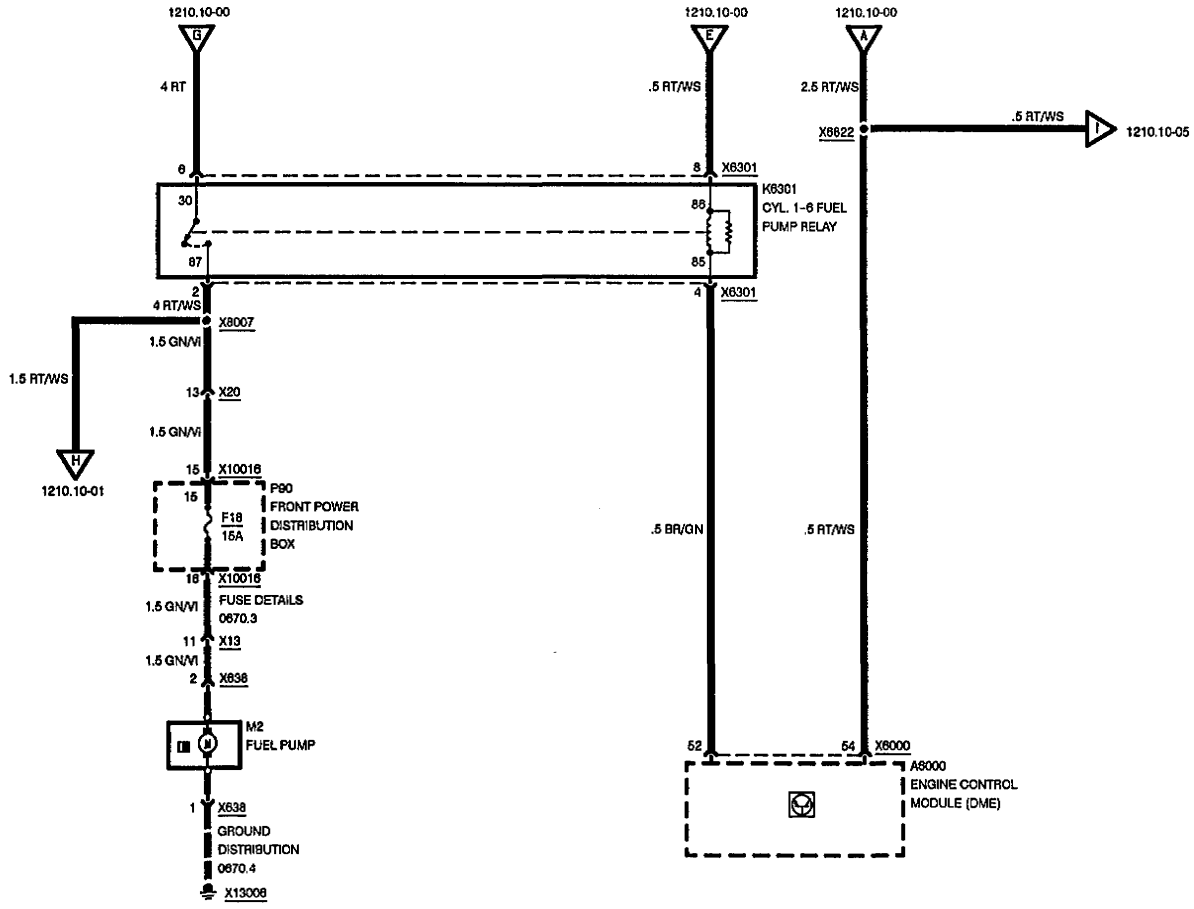
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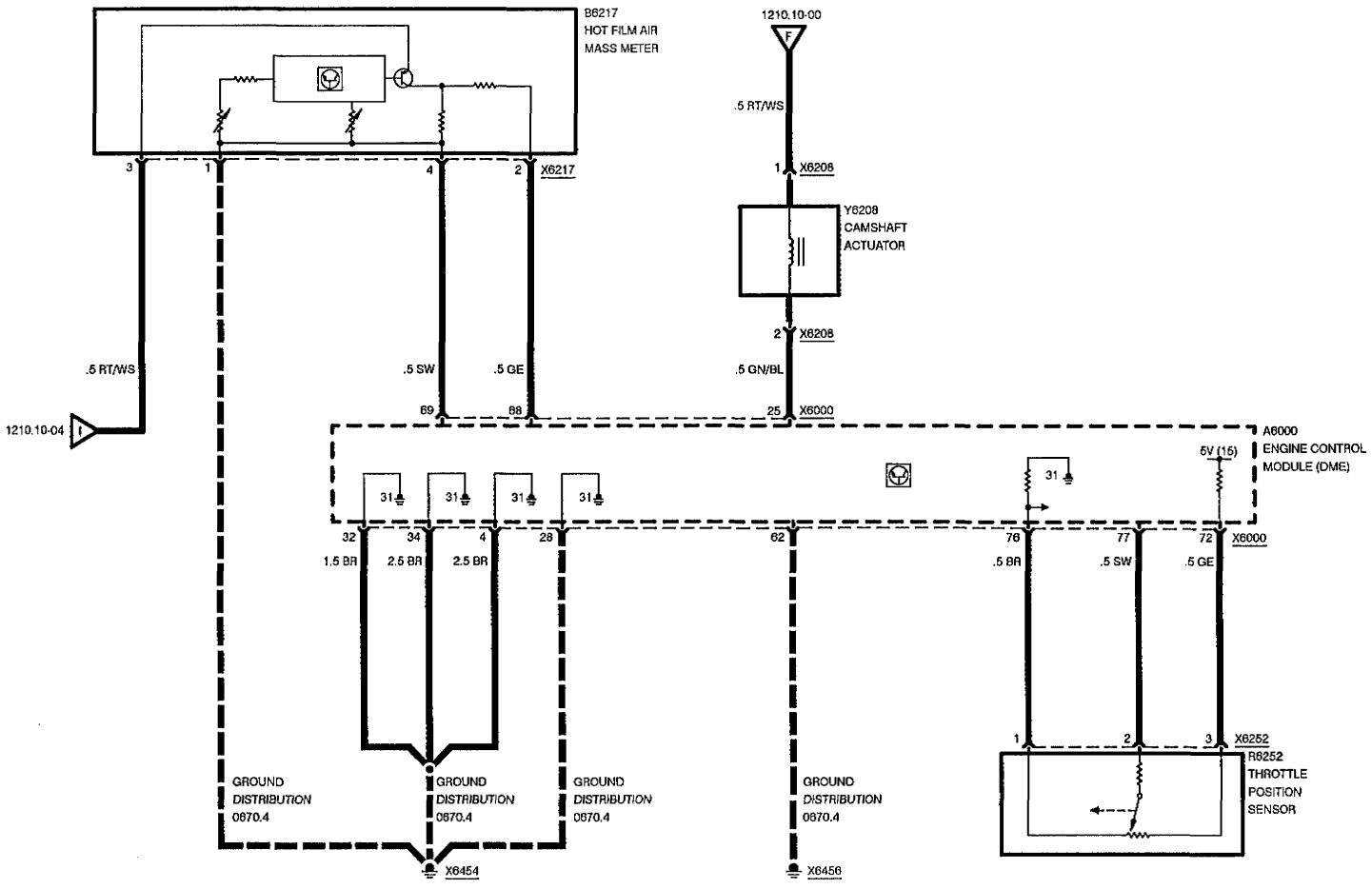


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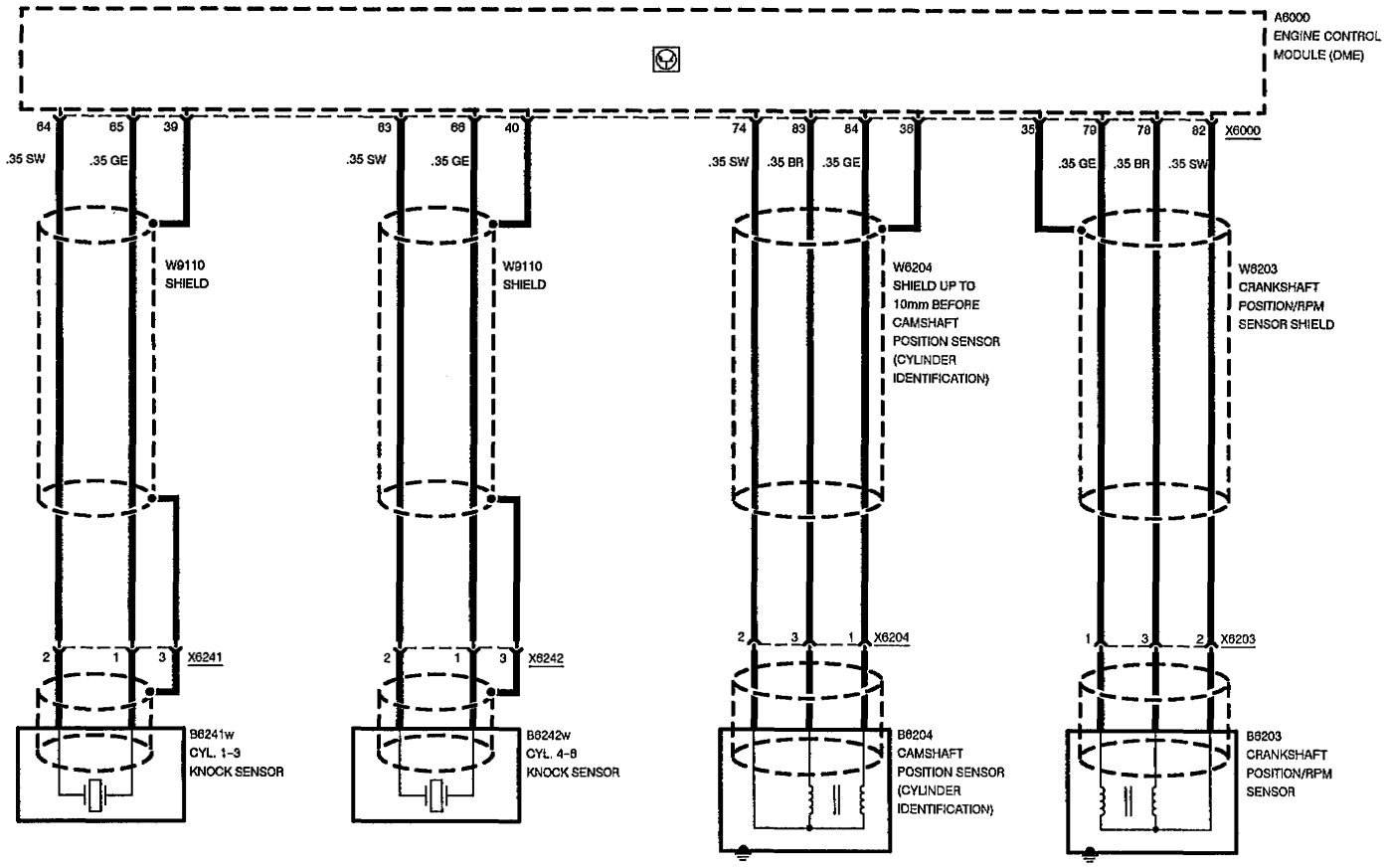


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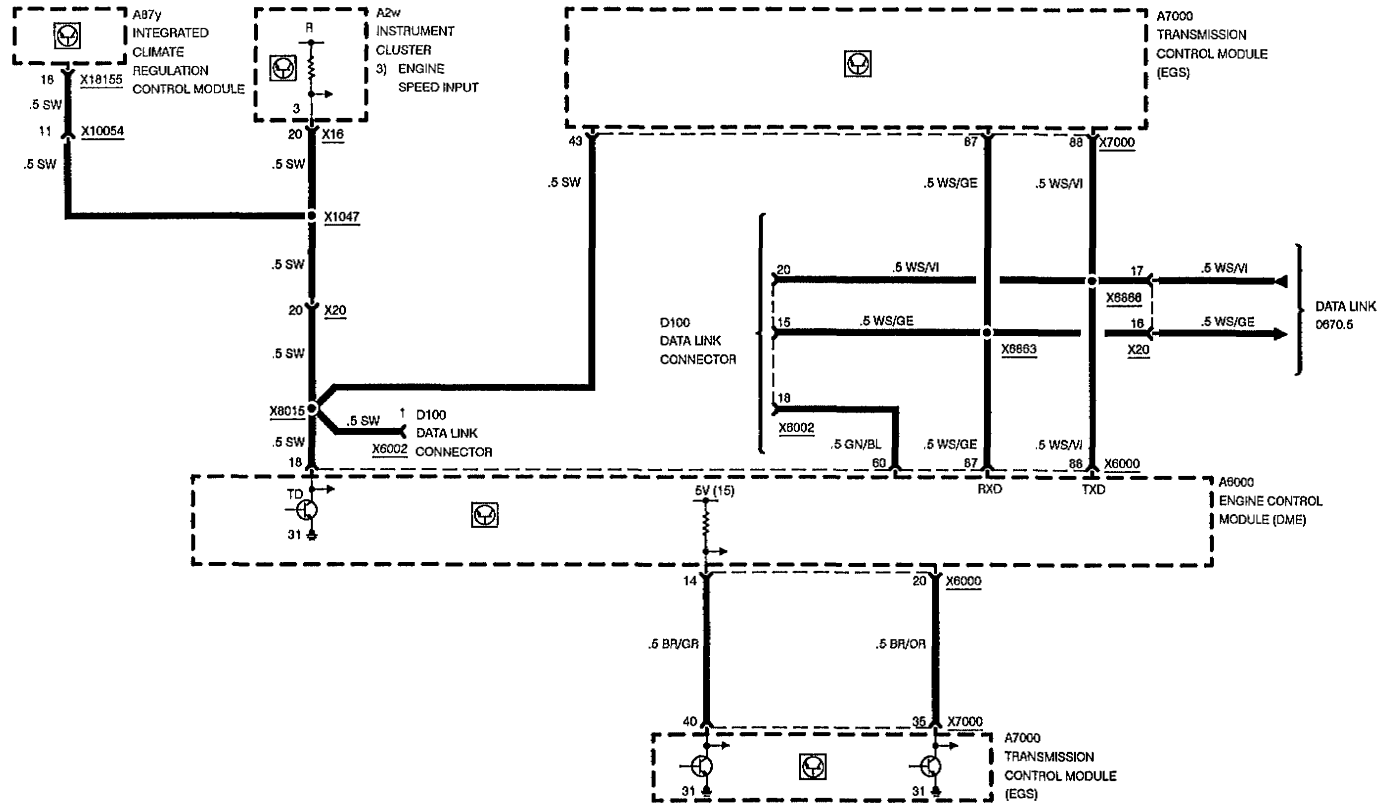


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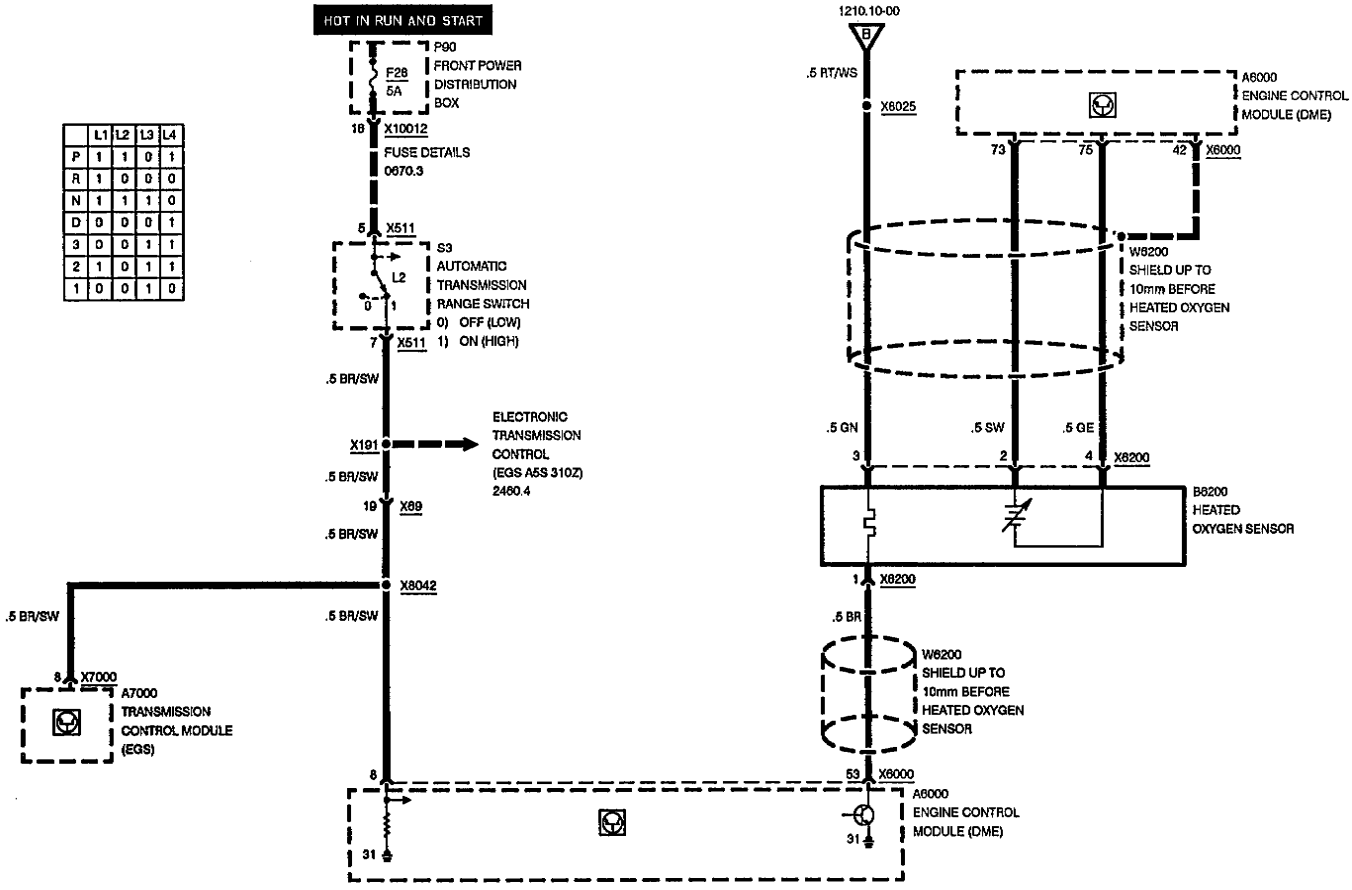


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ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

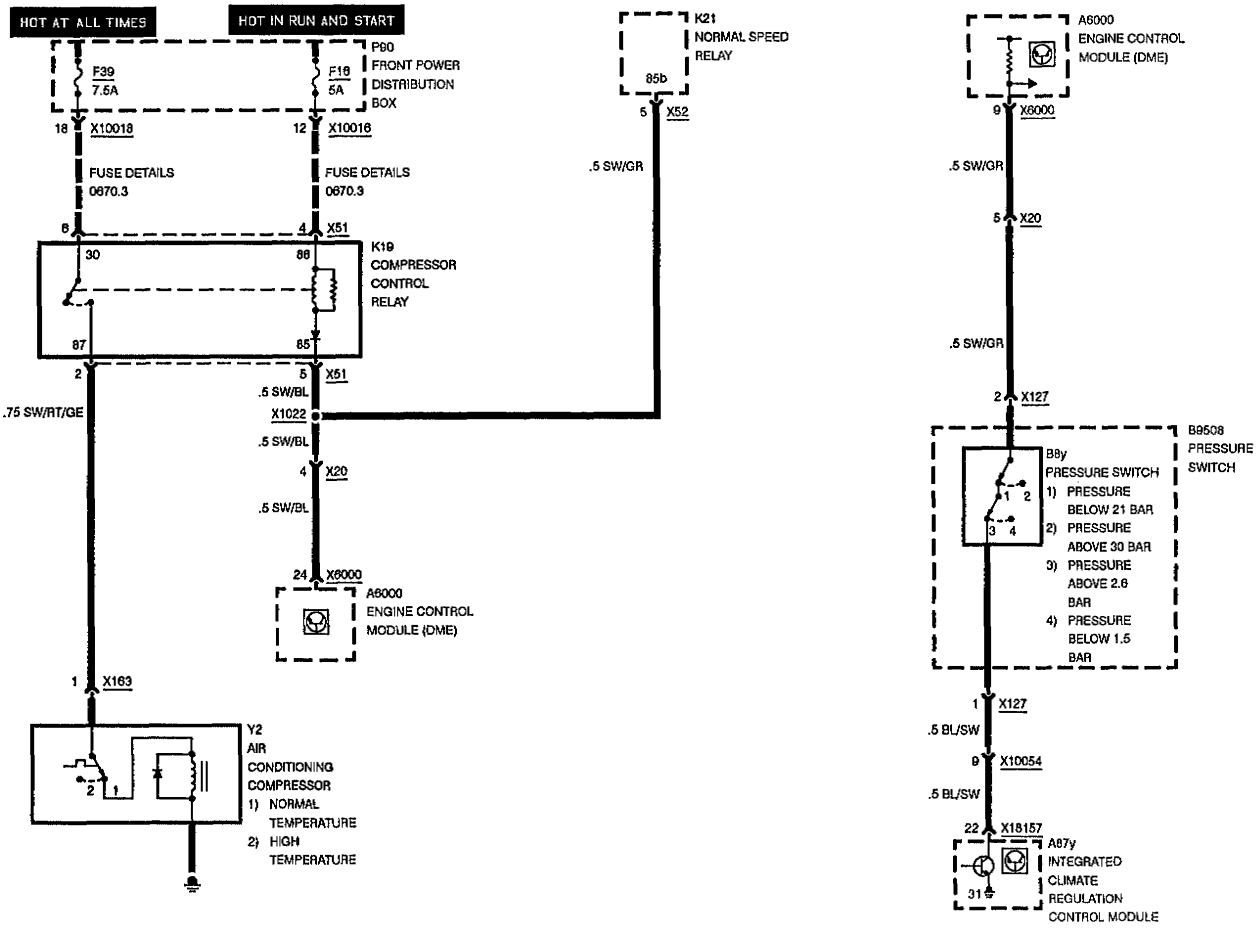


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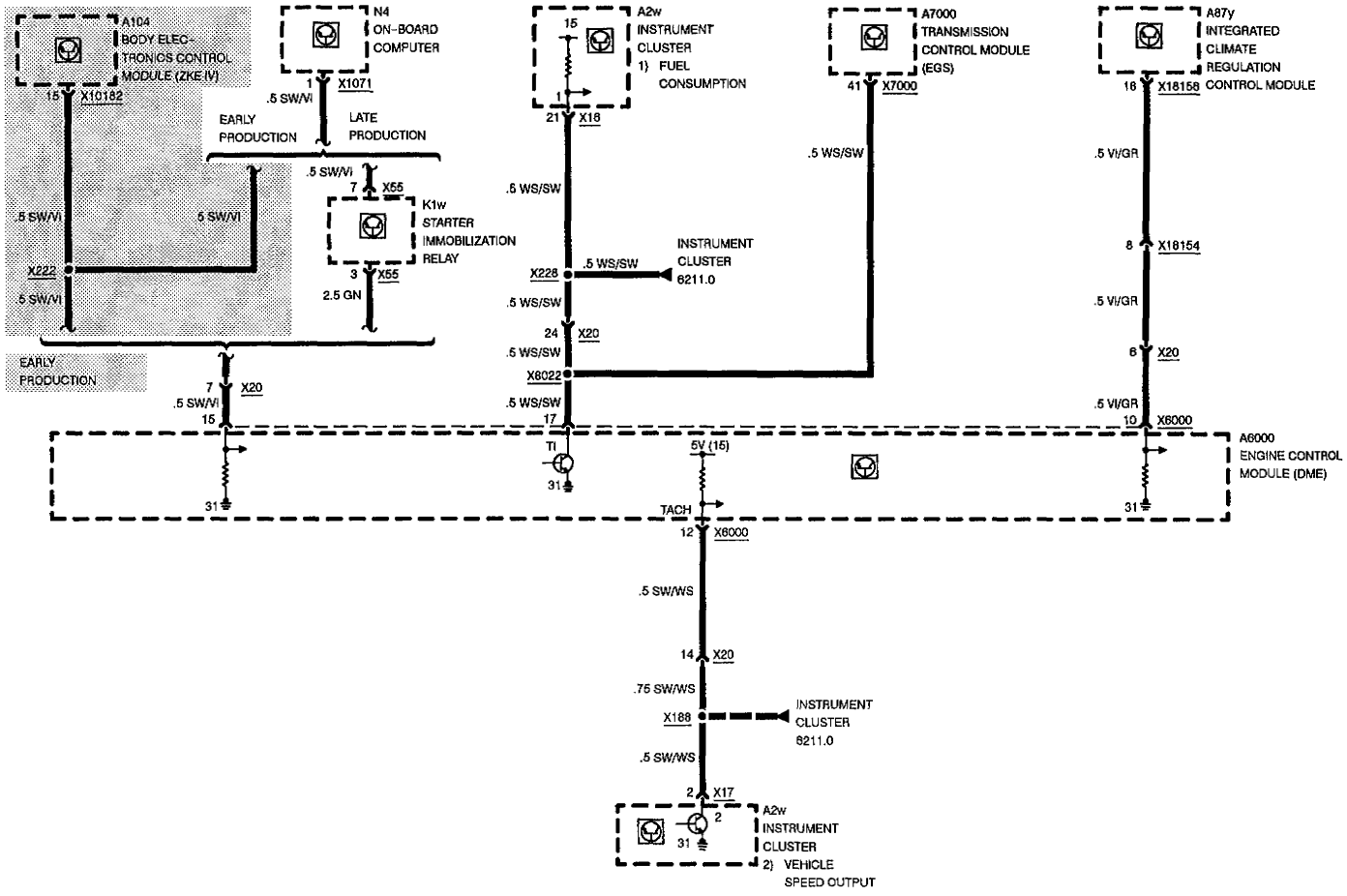
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ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

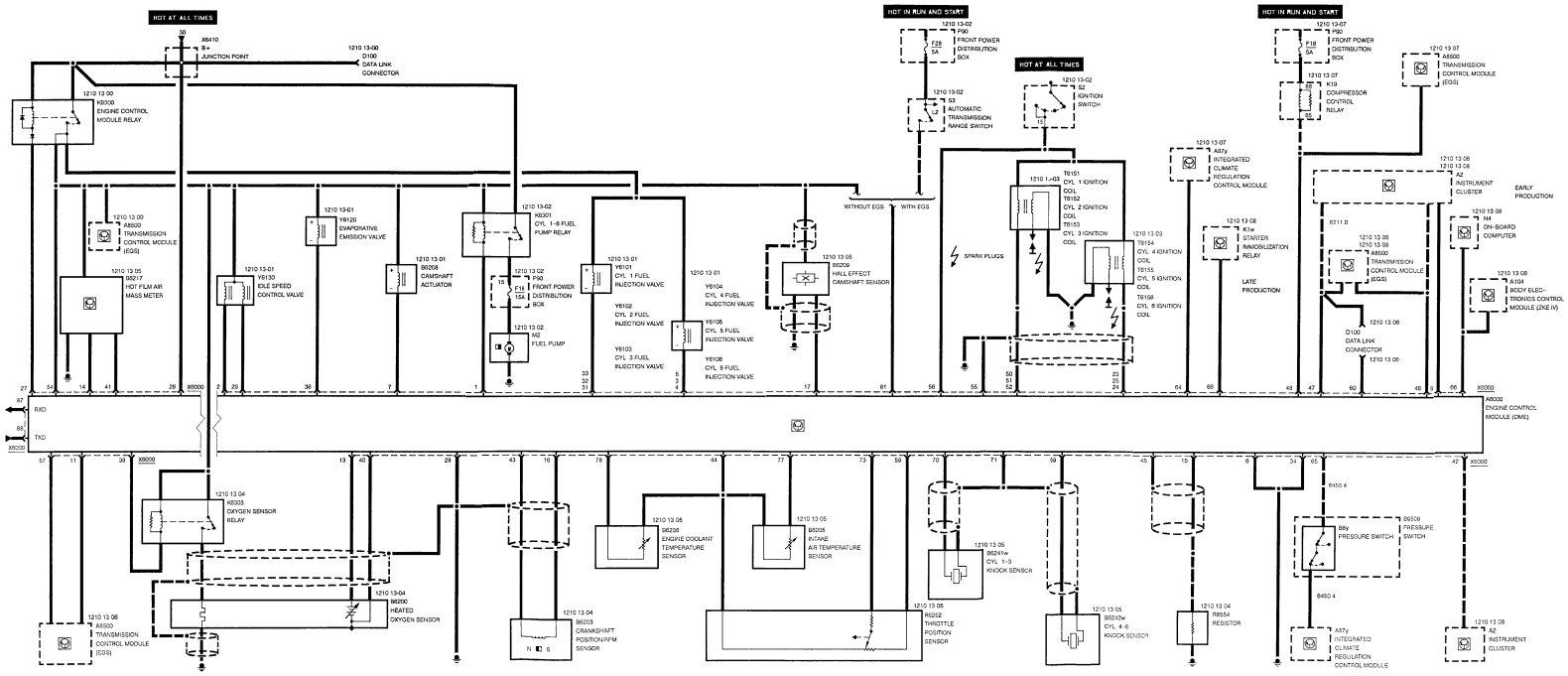


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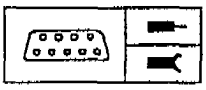
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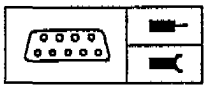
Pin Assignments

X6000

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

E = Input, A = Output, M = Ground

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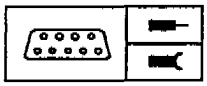


Pin Assignments

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

E = Input, A = Output, M = Ground

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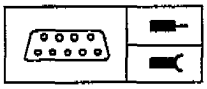


Pin Assignments

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

E = Input, A = Output, M = Ground

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Pin Assignments

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

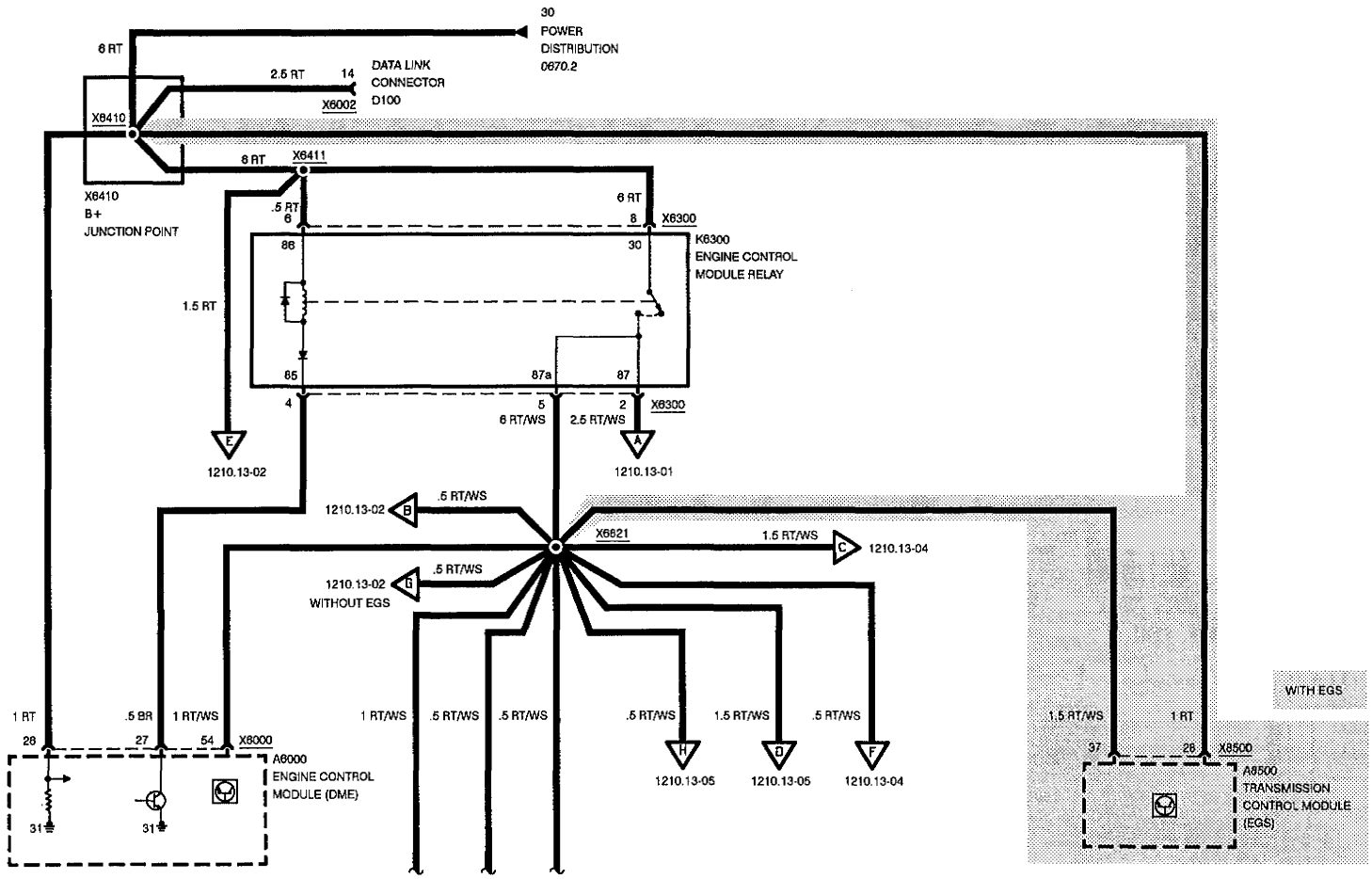
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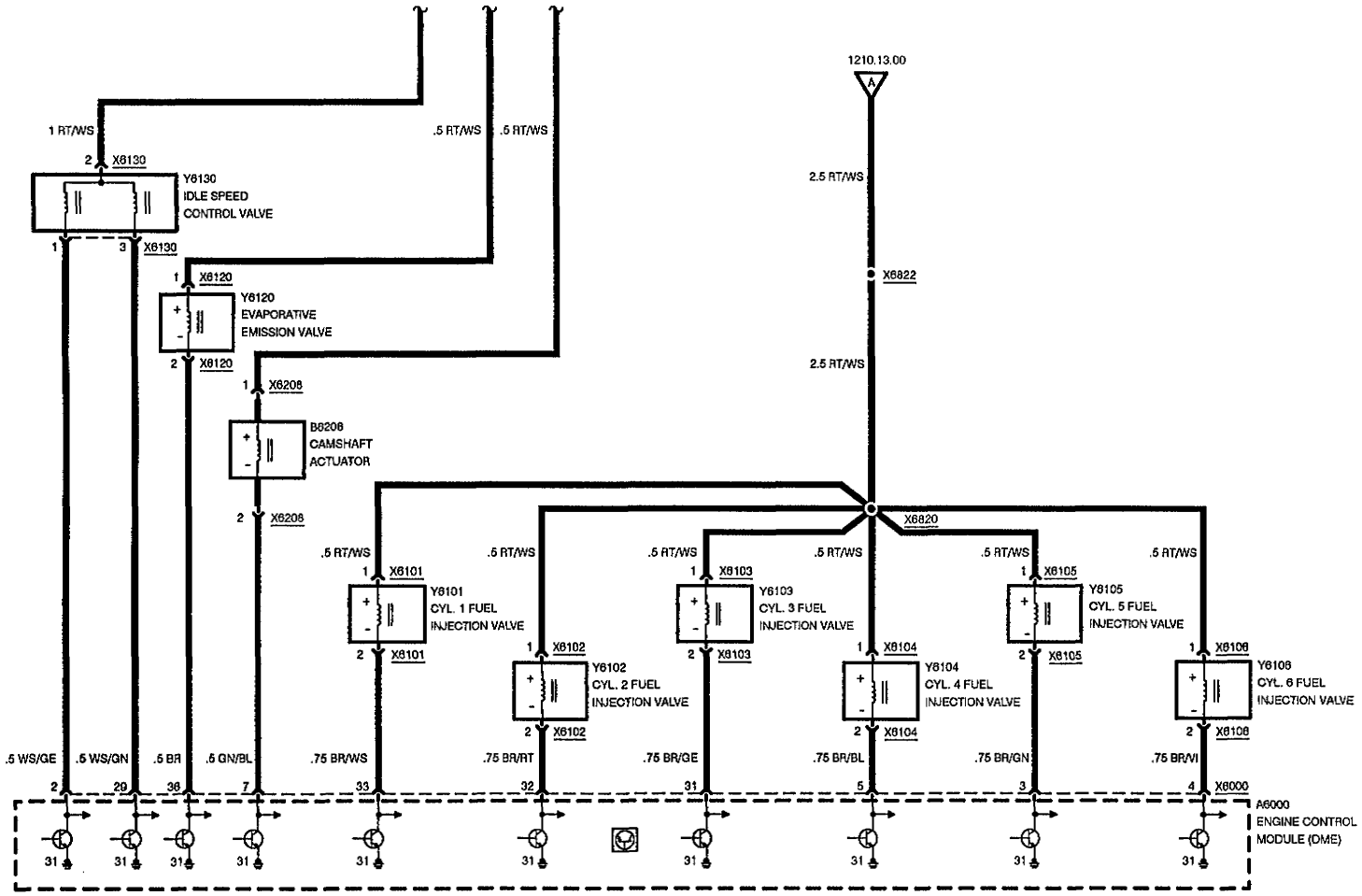
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

POWER, FUEL INJECTION VALVES



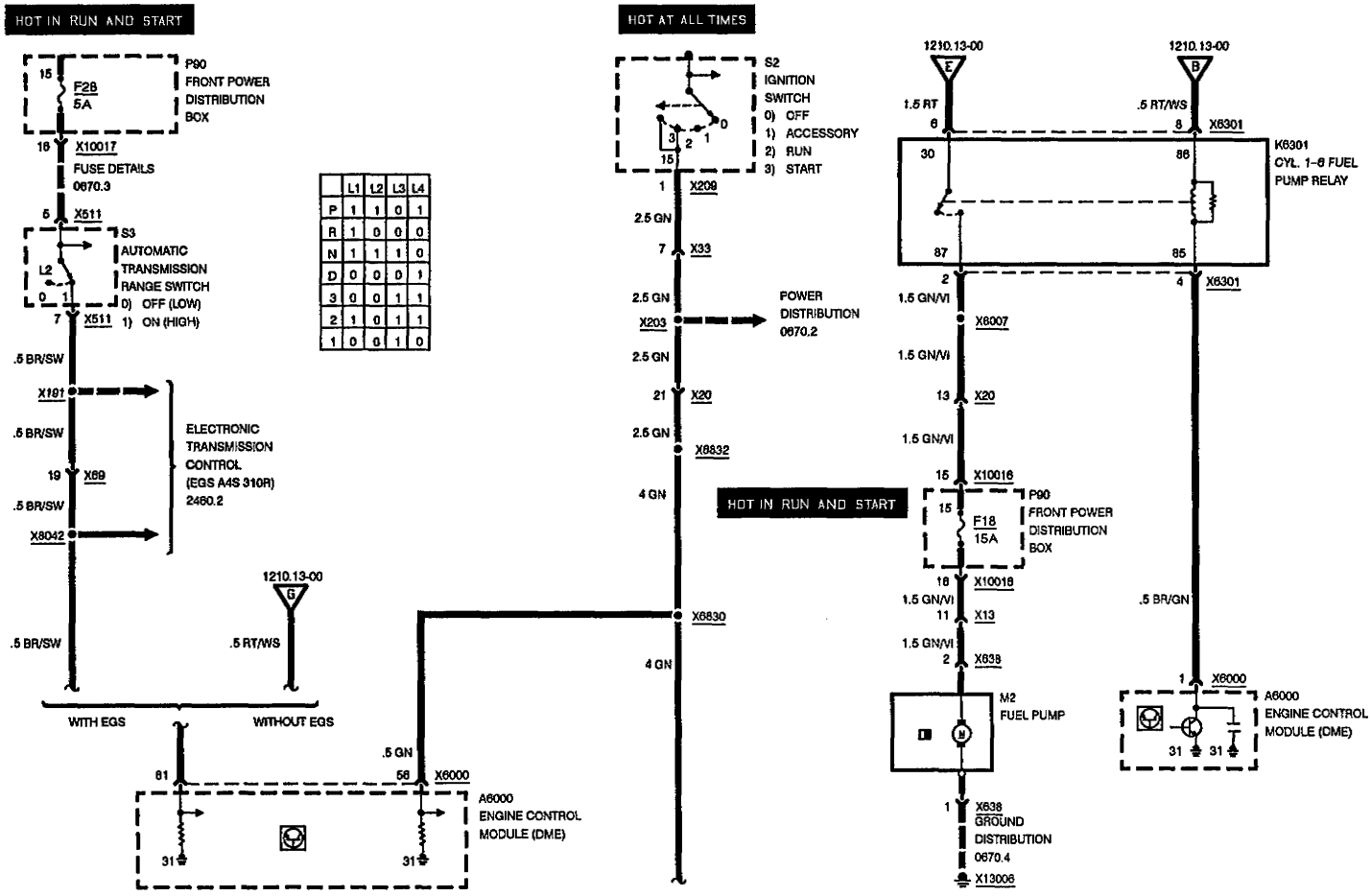
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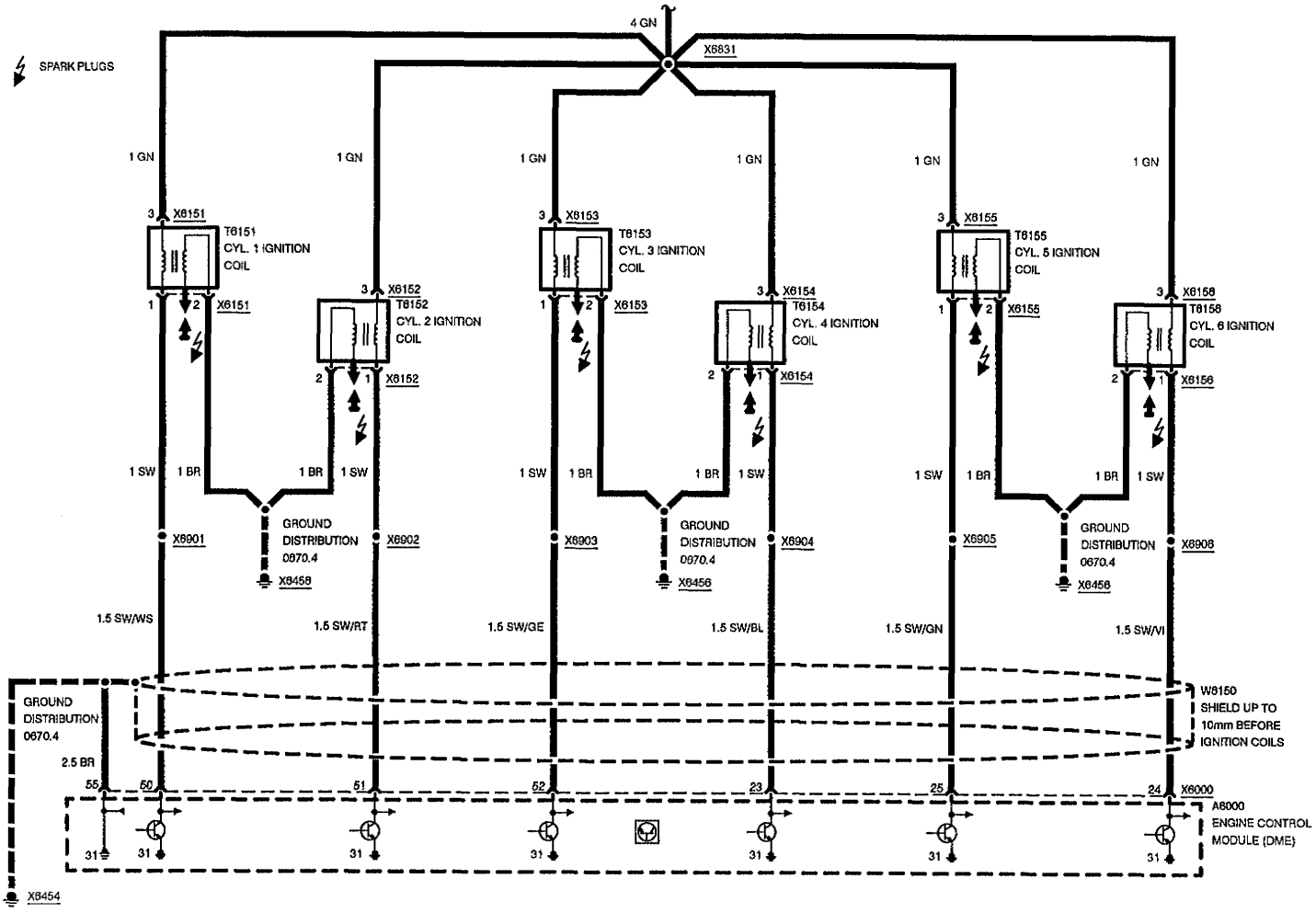
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ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

FUEL PUMP, IGNITION COILS



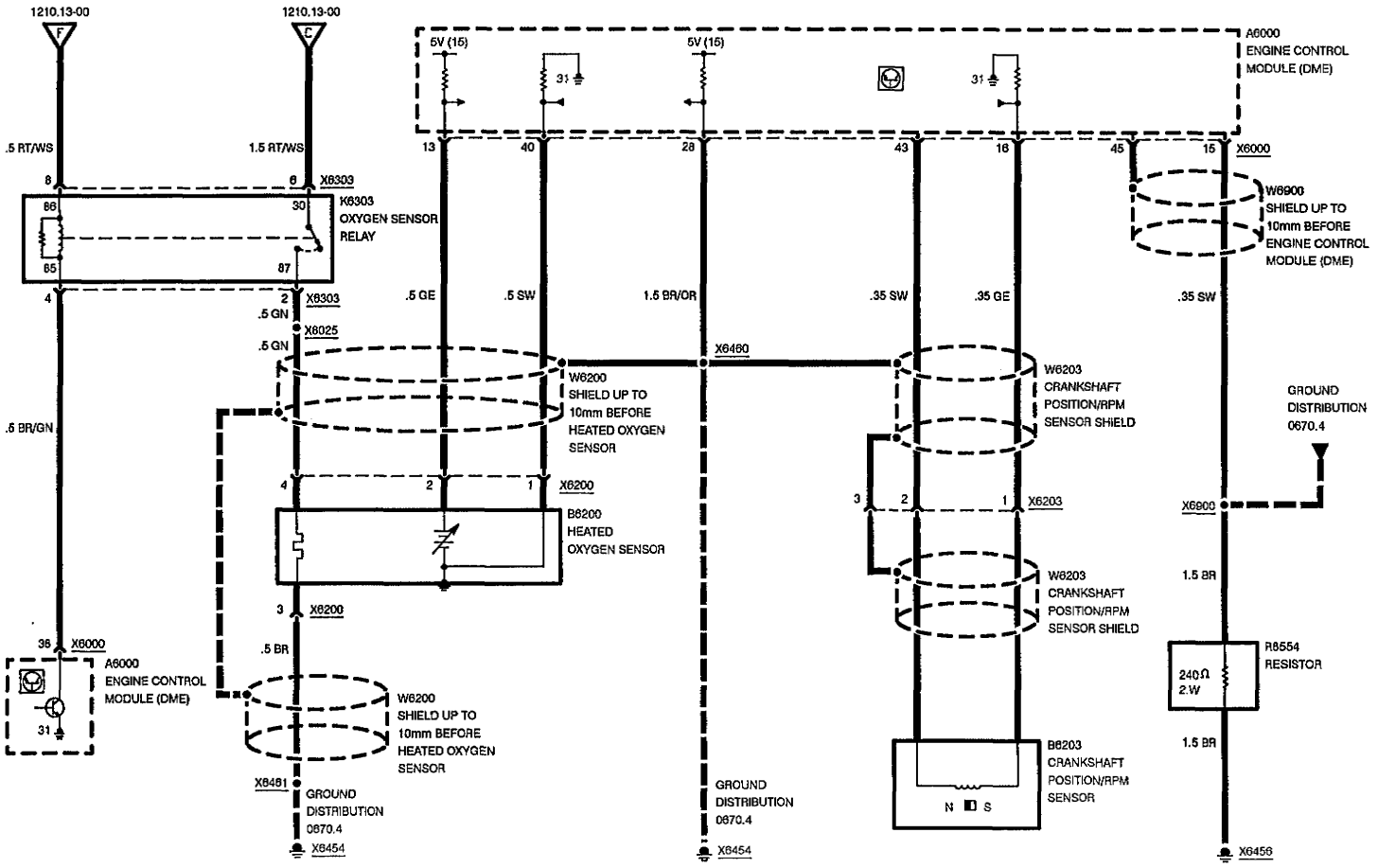
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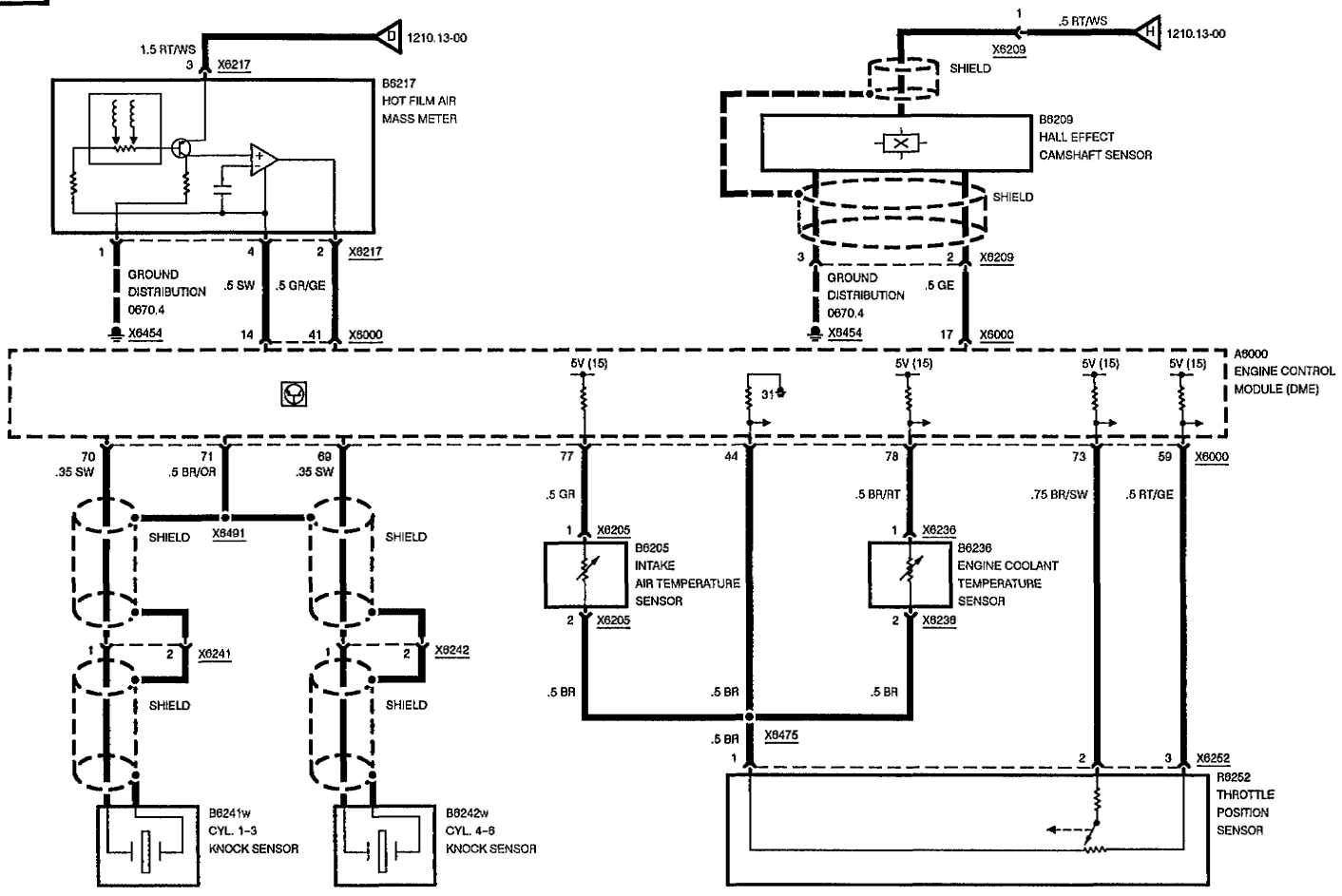
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



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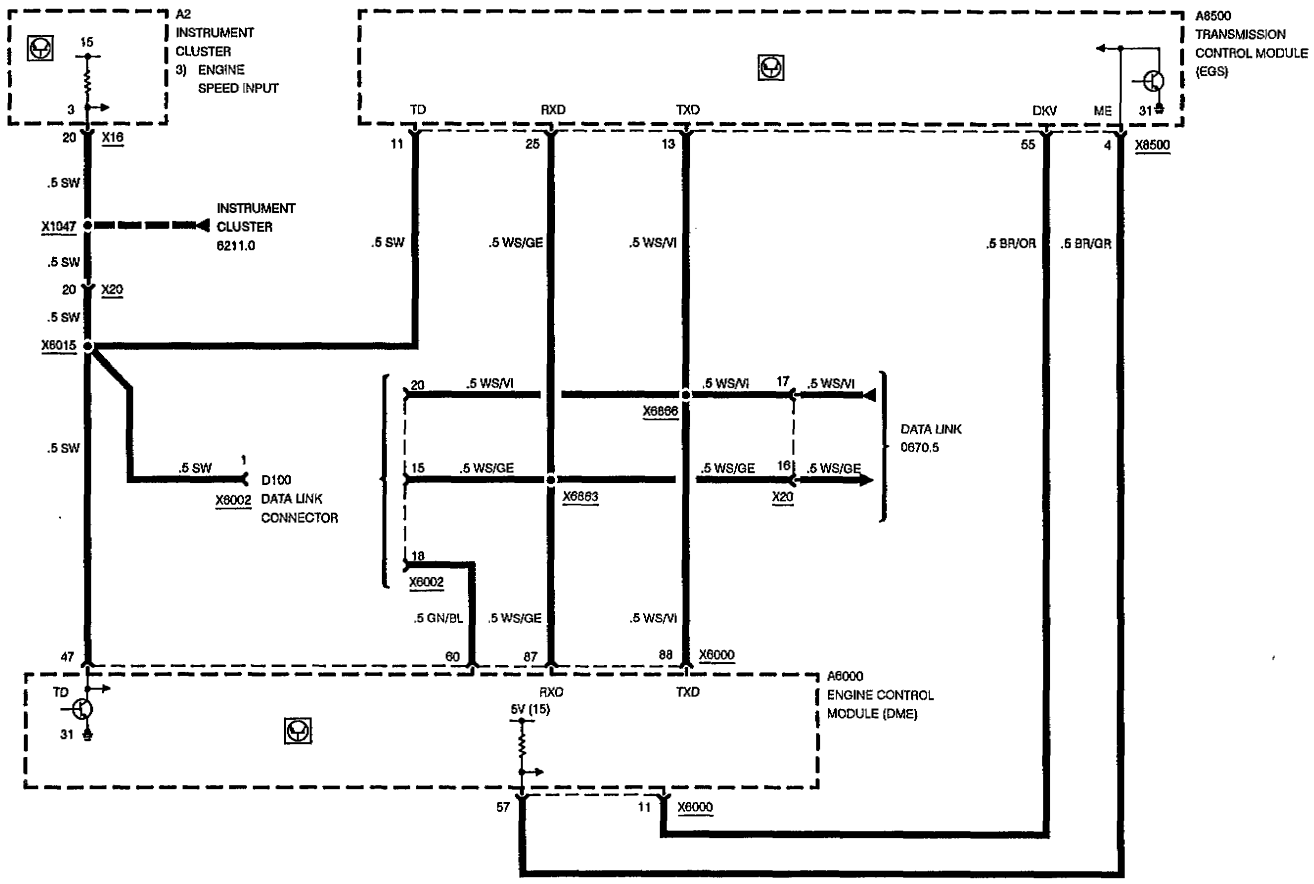
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



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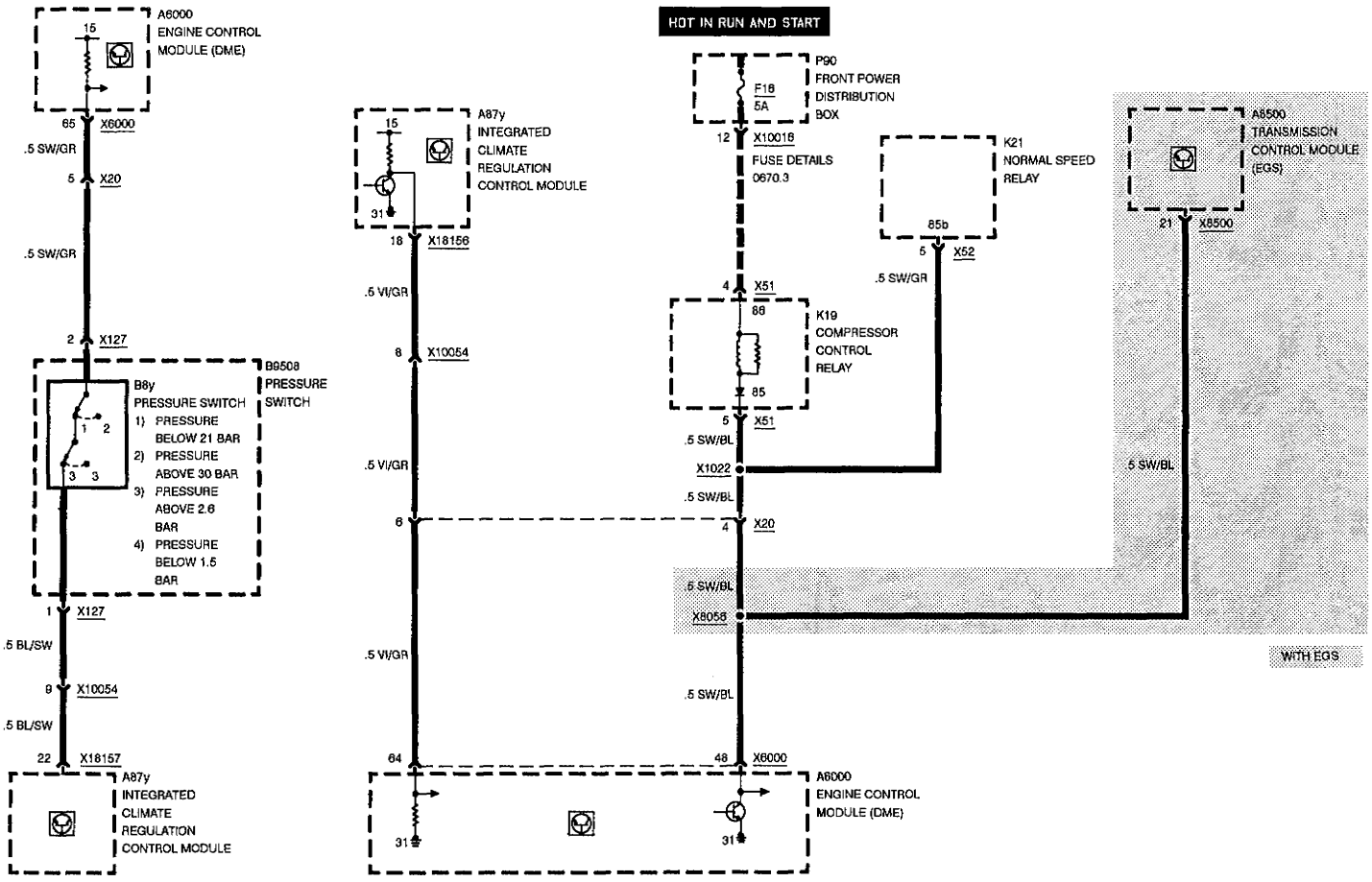
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

DATA LINK



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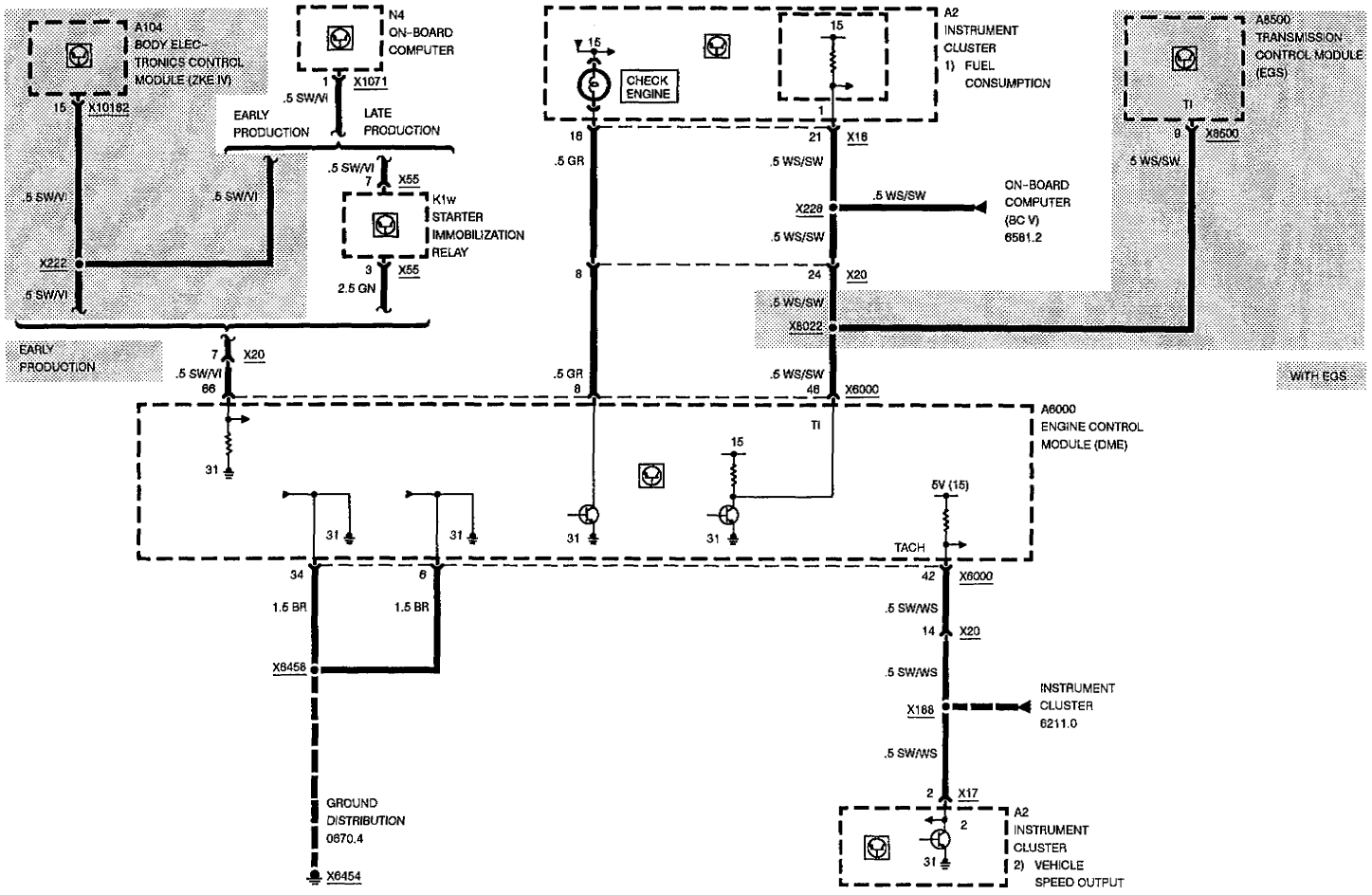
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



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BMW 3

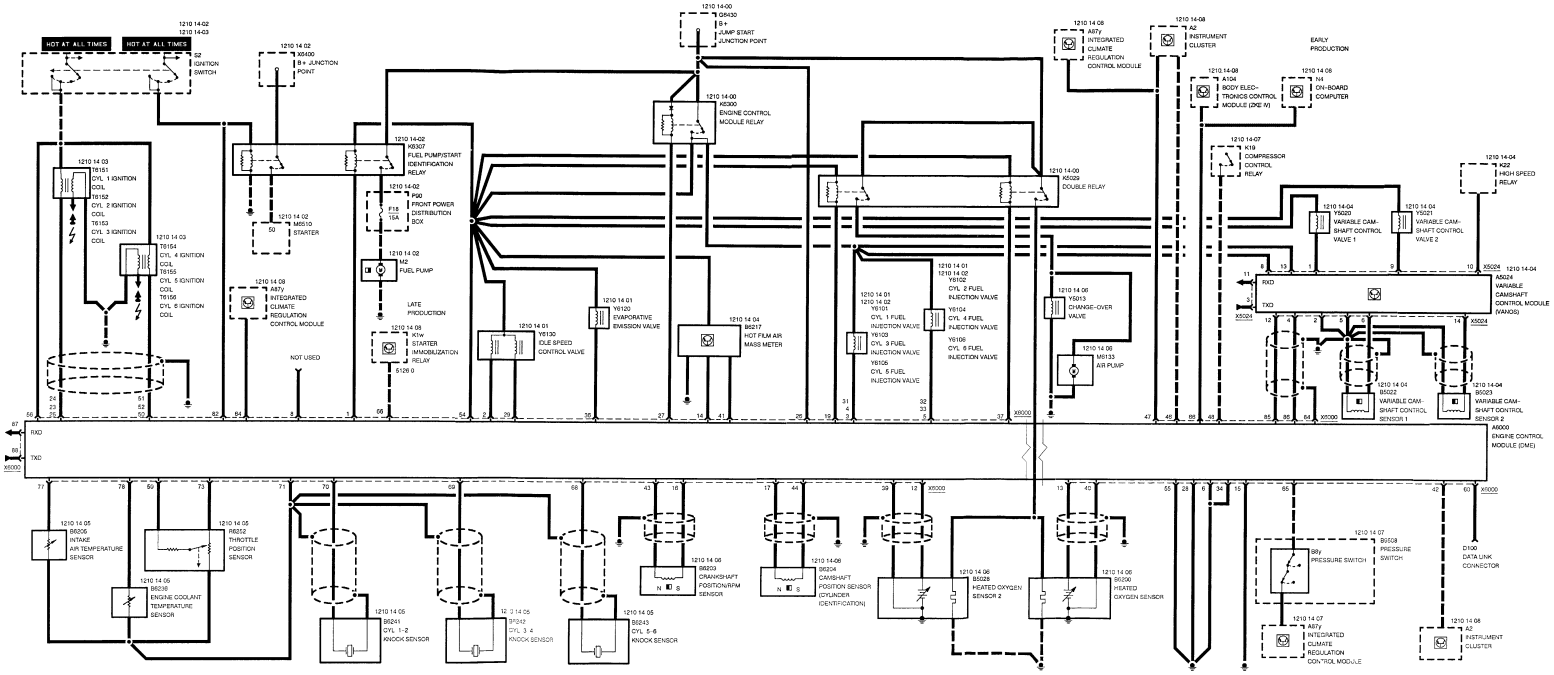
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



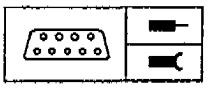
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Pin Assignments

X5024

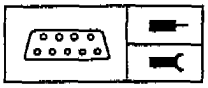
Pin	Type	Description/Function	Connection
1	A	Valve 1 (delayed setting)	Variable camshaft control valve 1
2	M	Ground	Ground
3	A	RxD diagnostic data link	Data link connector
4	E/A	CAN-High signal	Engine control module (DME)
5	M	Ground	Ground
6	E	Sensor 1 (output NW)	Variable camshaft control sensor 1
7		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		Not used	
9		Not used	
10		Not used	
11		Not used	

E = Input, A = Output, M = Ground

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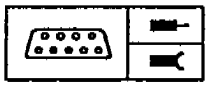


Pin Assignments

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

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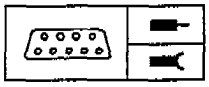


Pin Assignments

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

E = Input, A = Output, M = Ground

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Pin Assignments

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

E = Input, A = Output, M = Ground

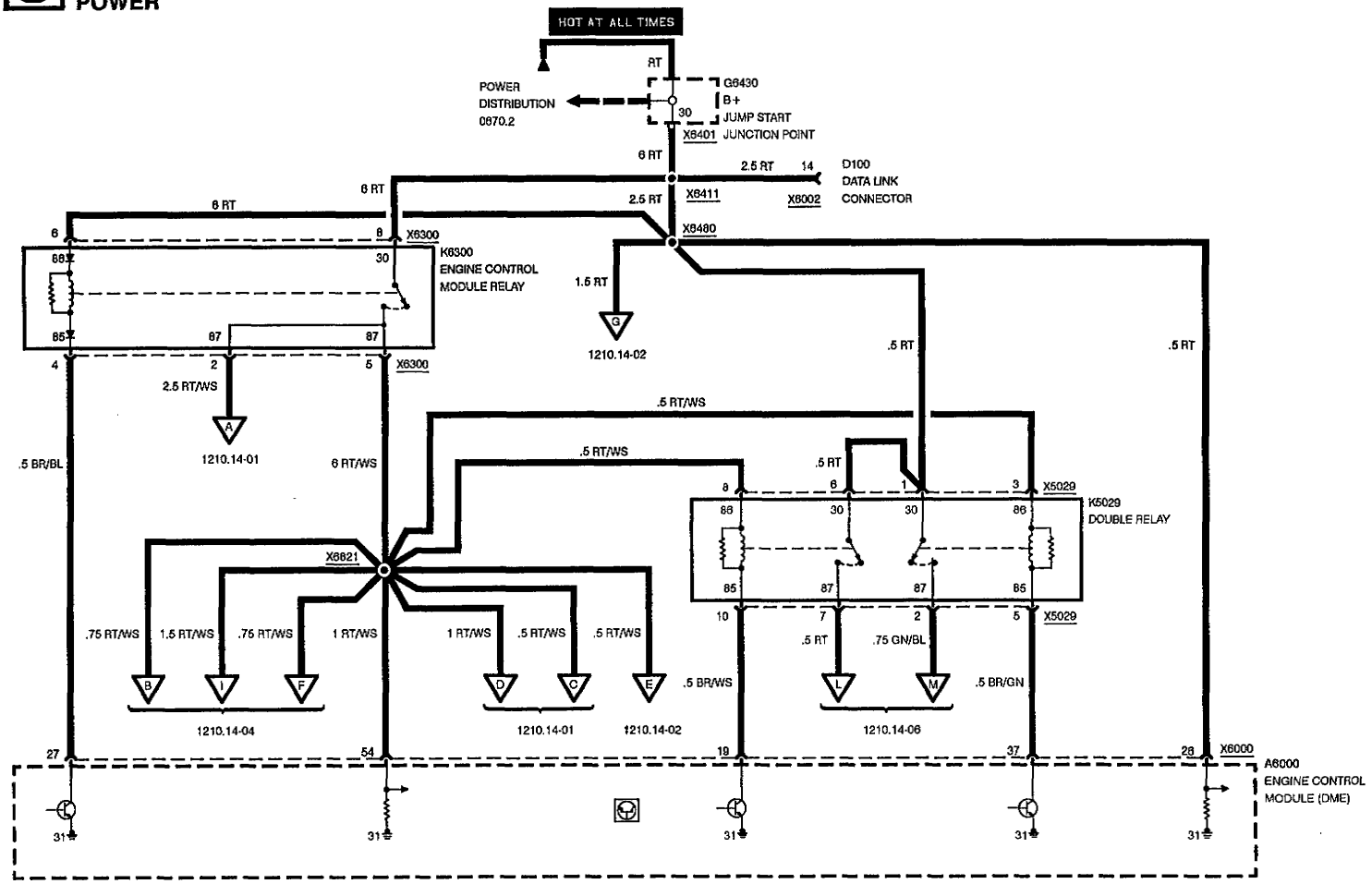
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ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

CDN

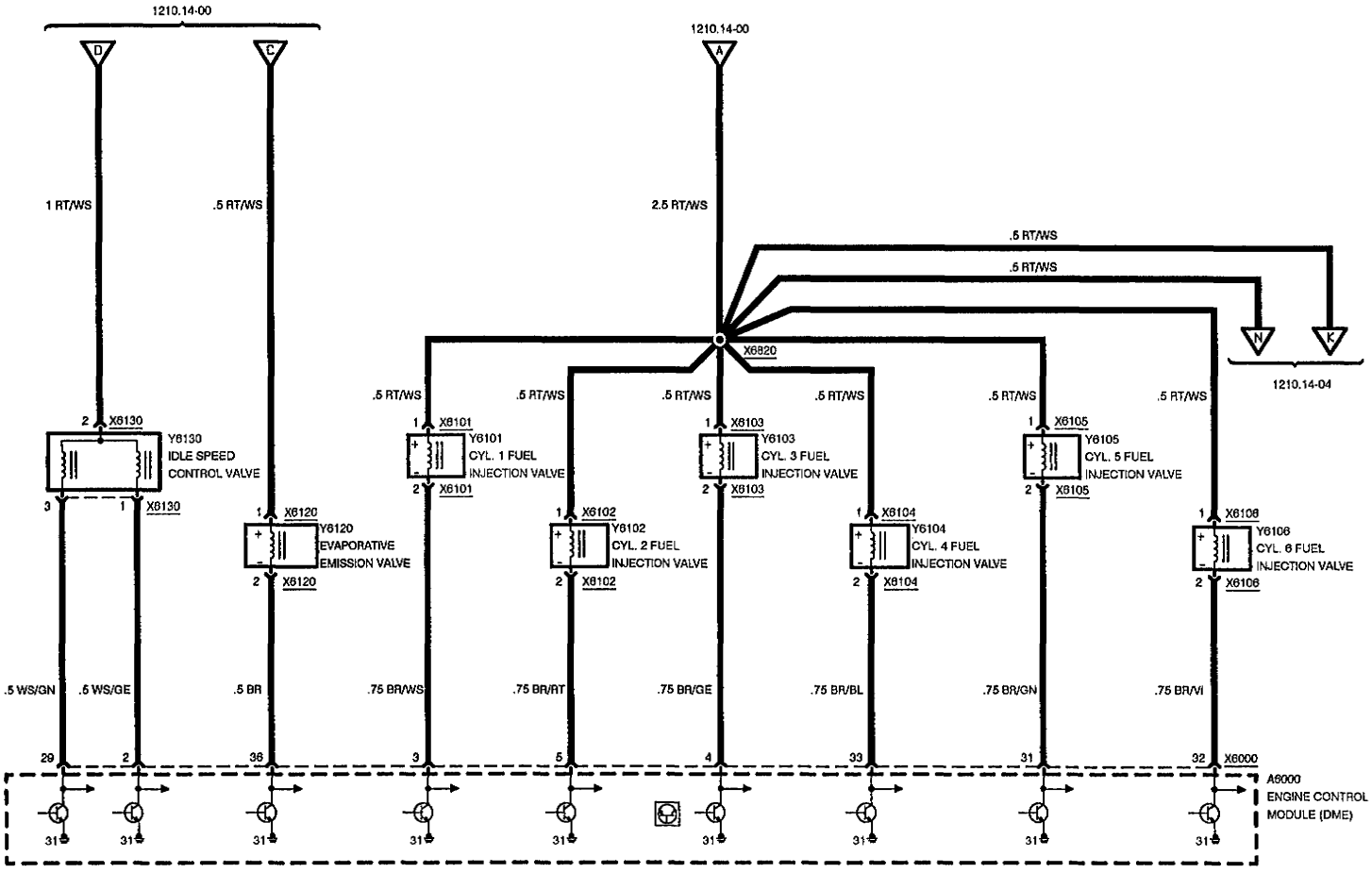
POWER



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

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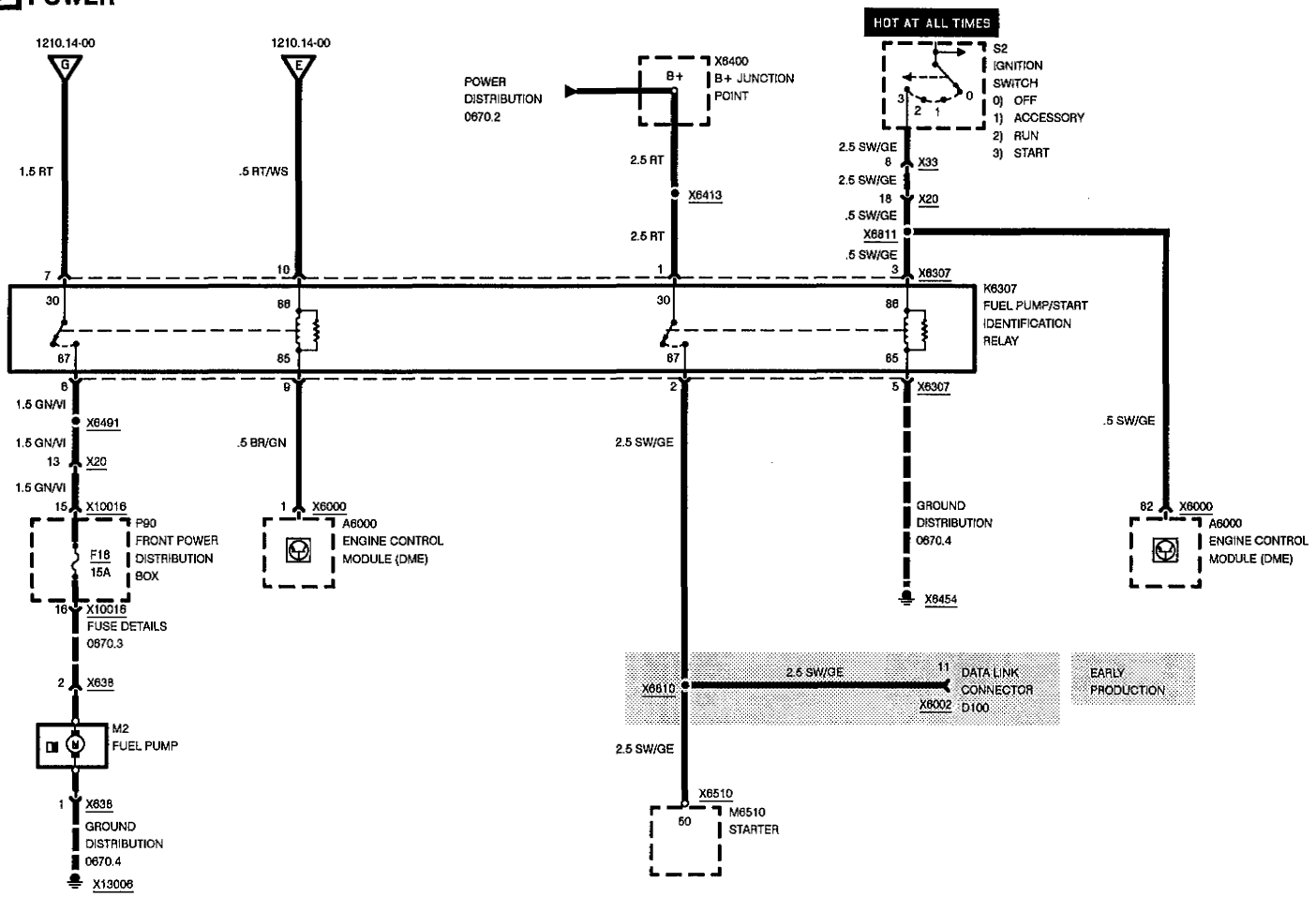


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ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

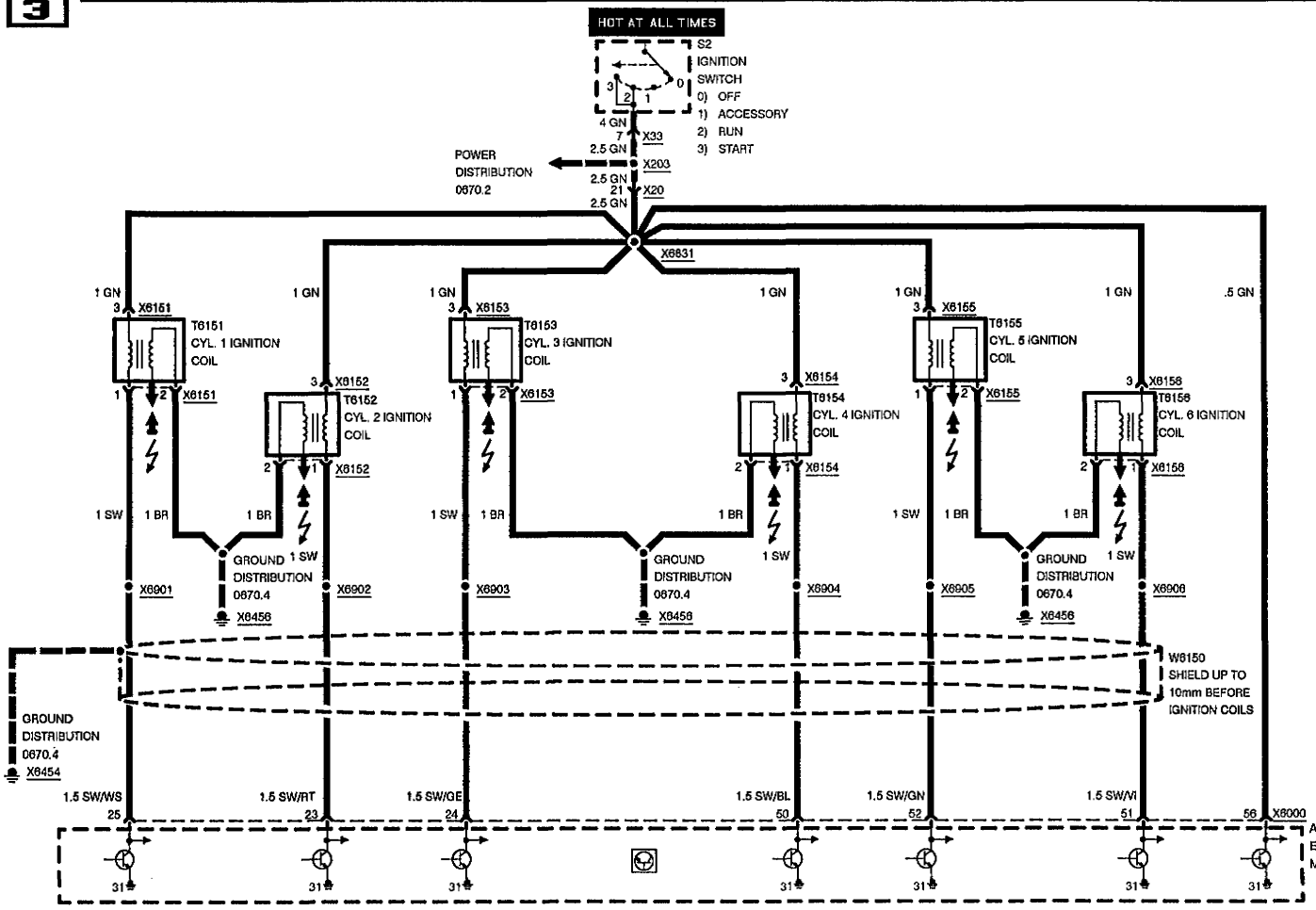
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POWER



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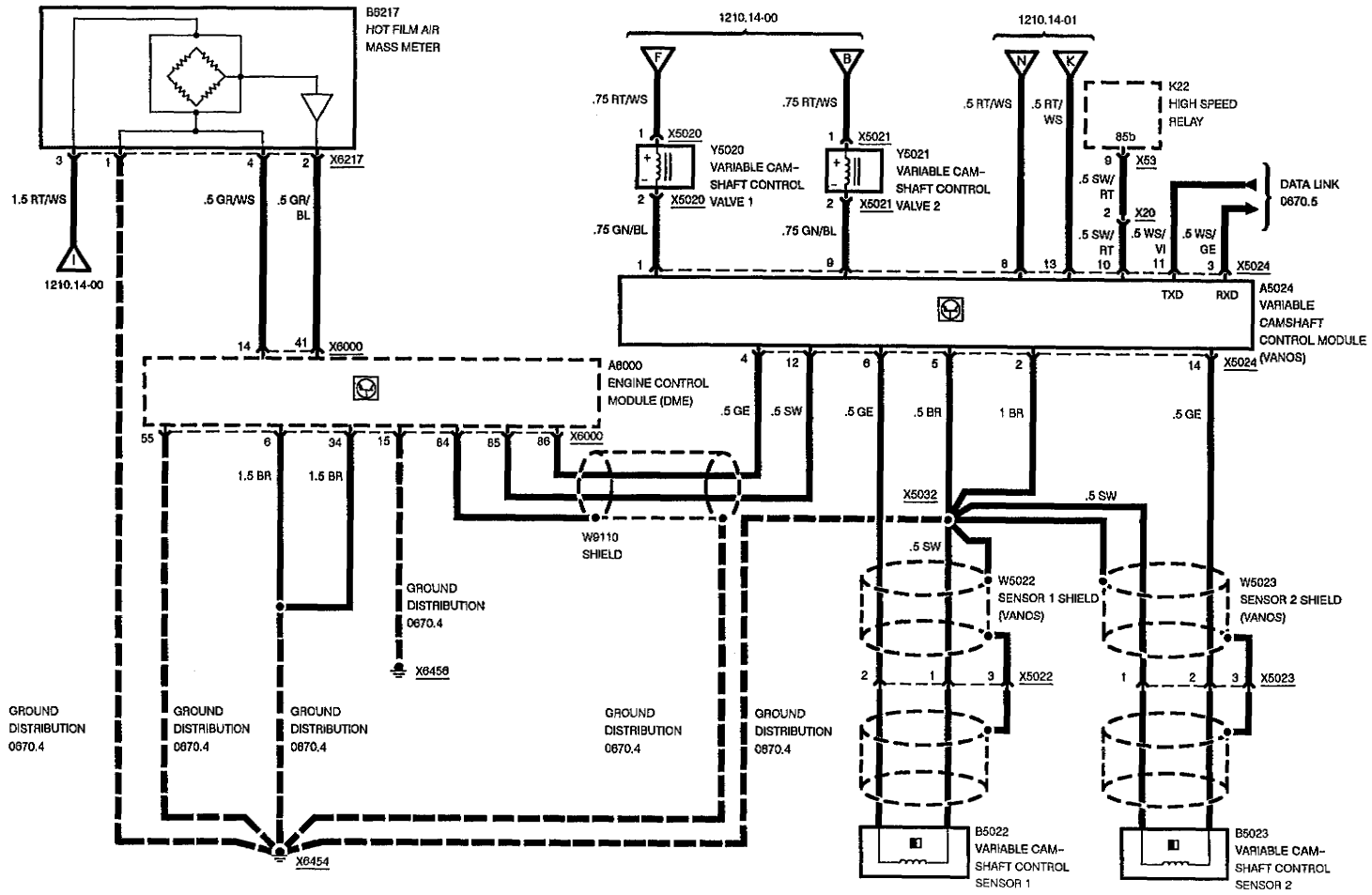
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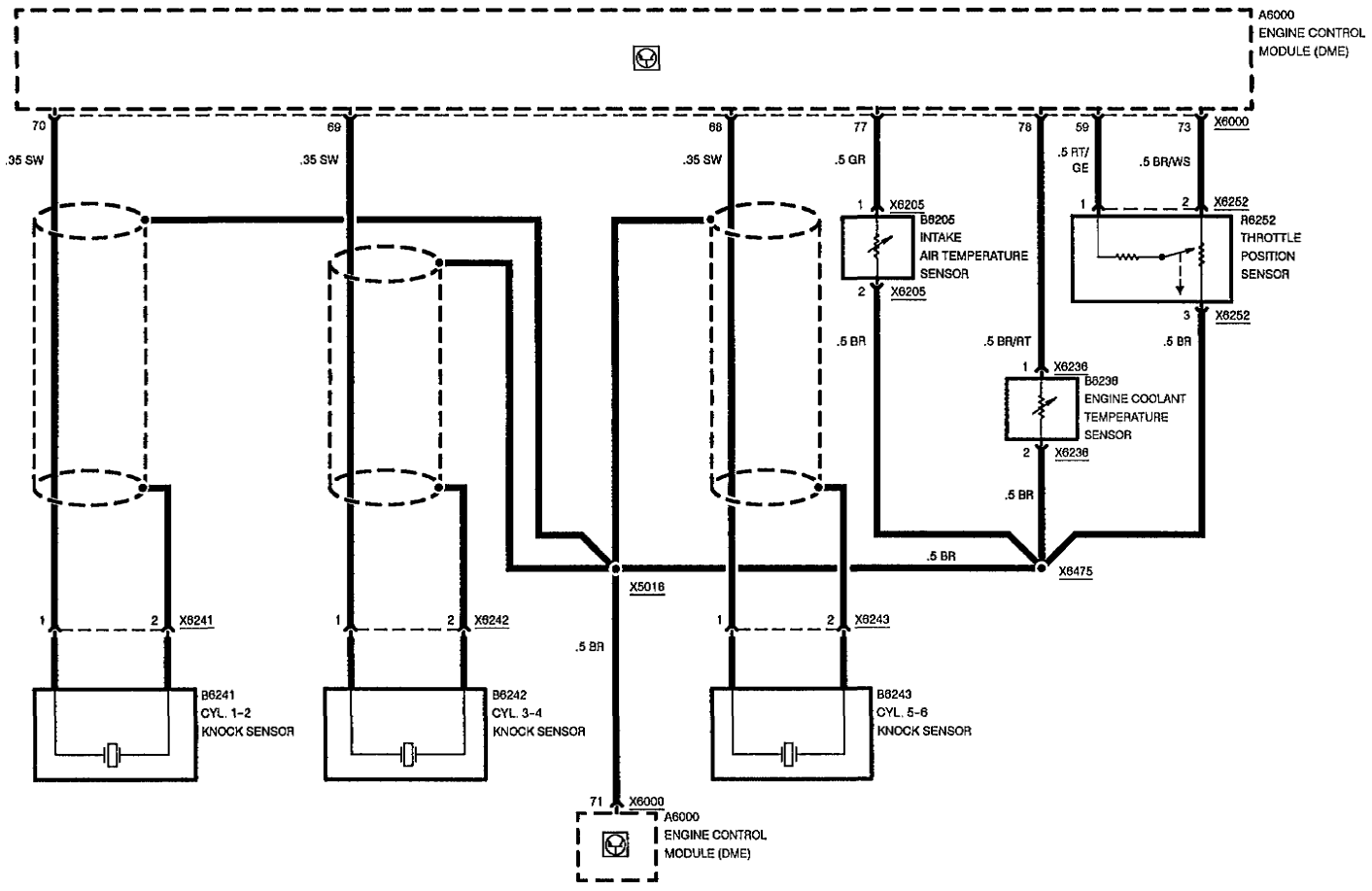
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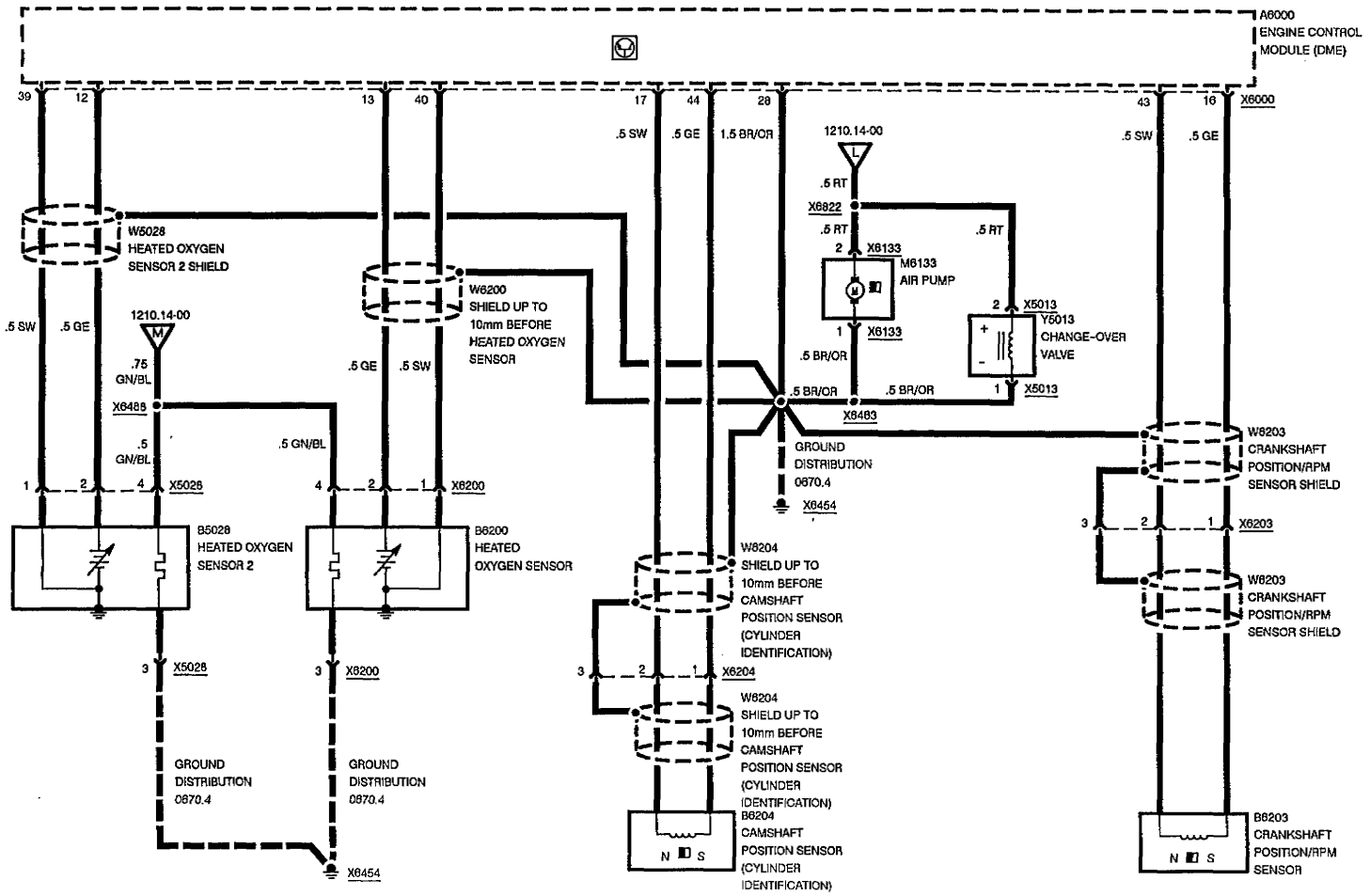
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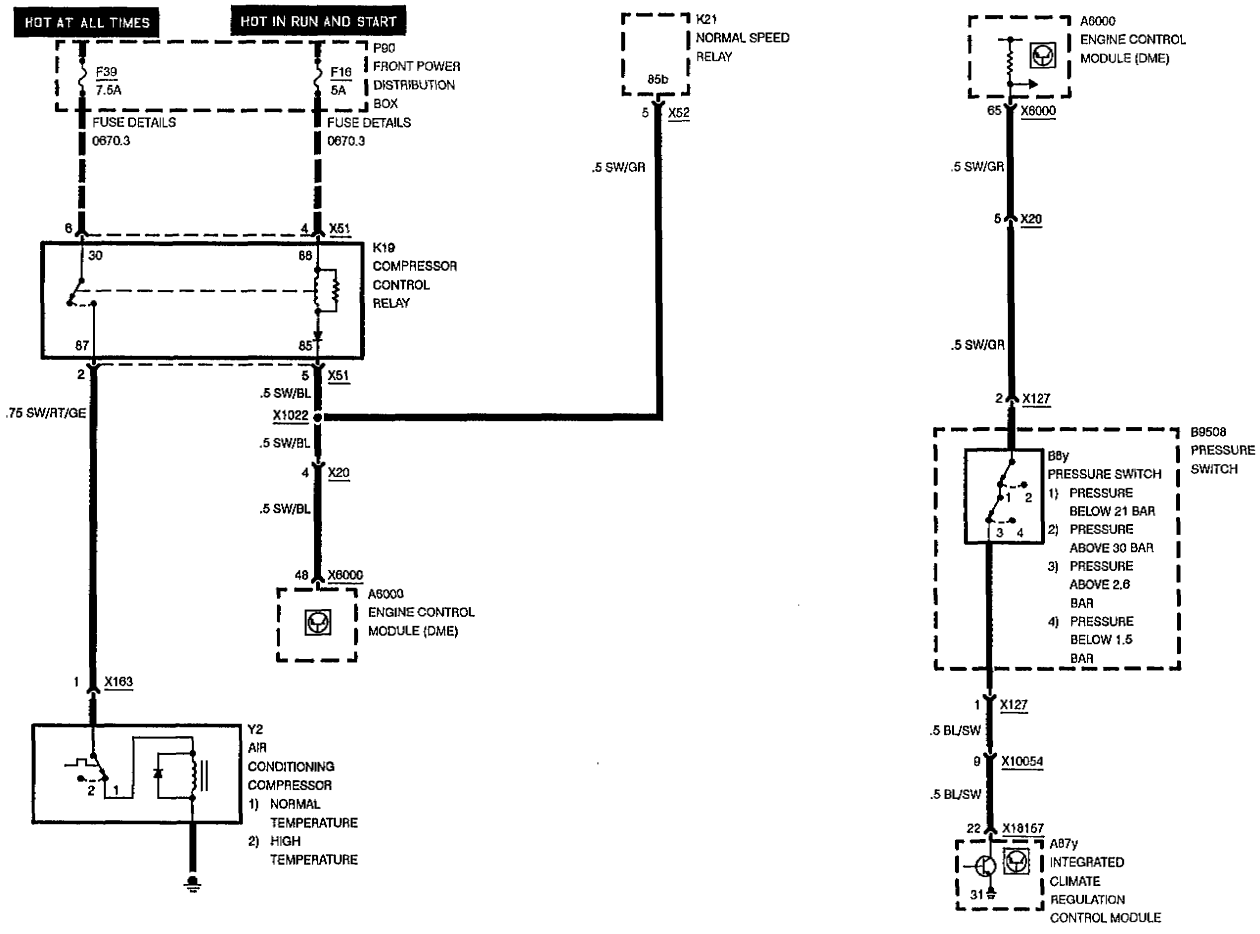
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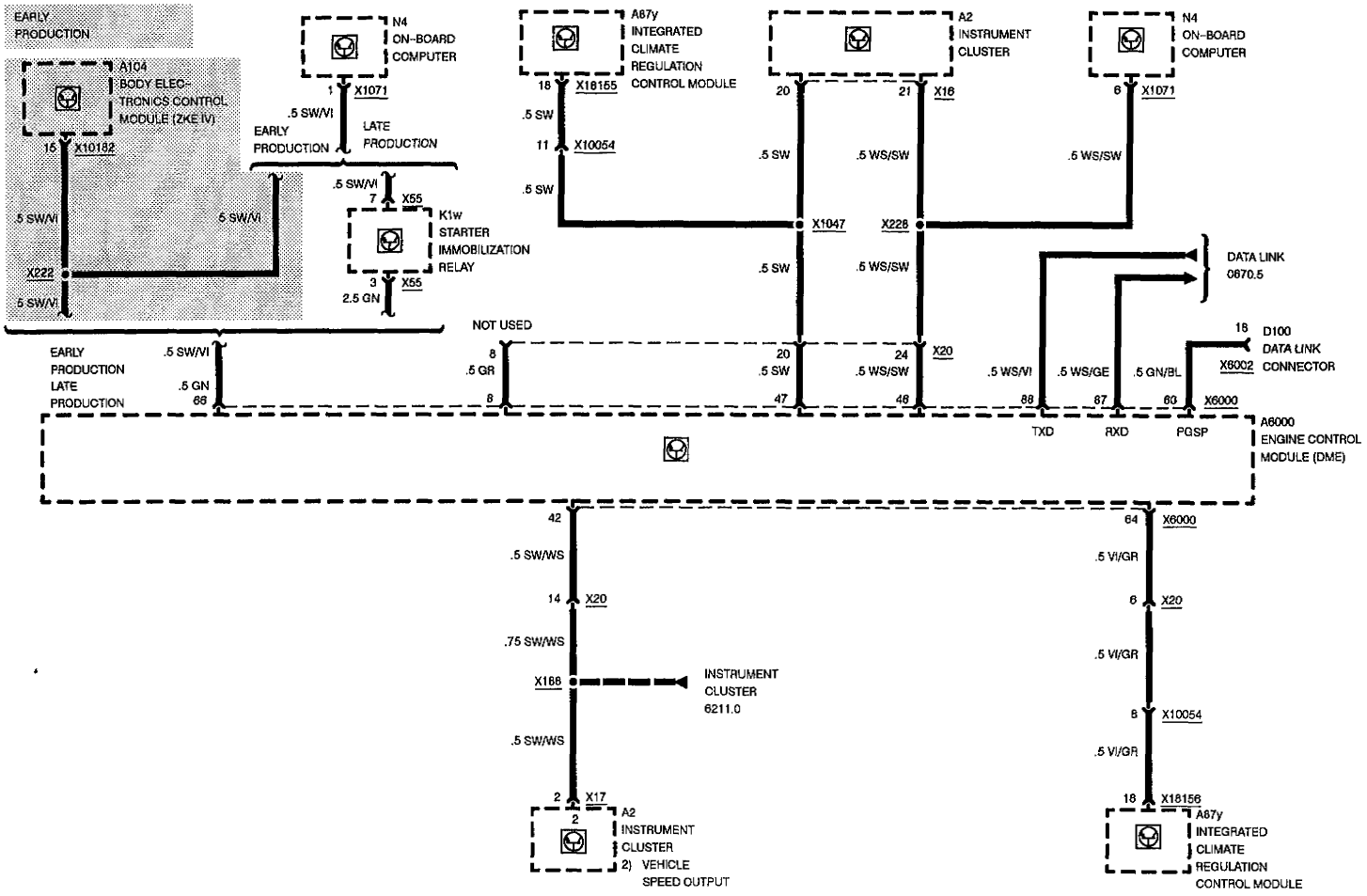
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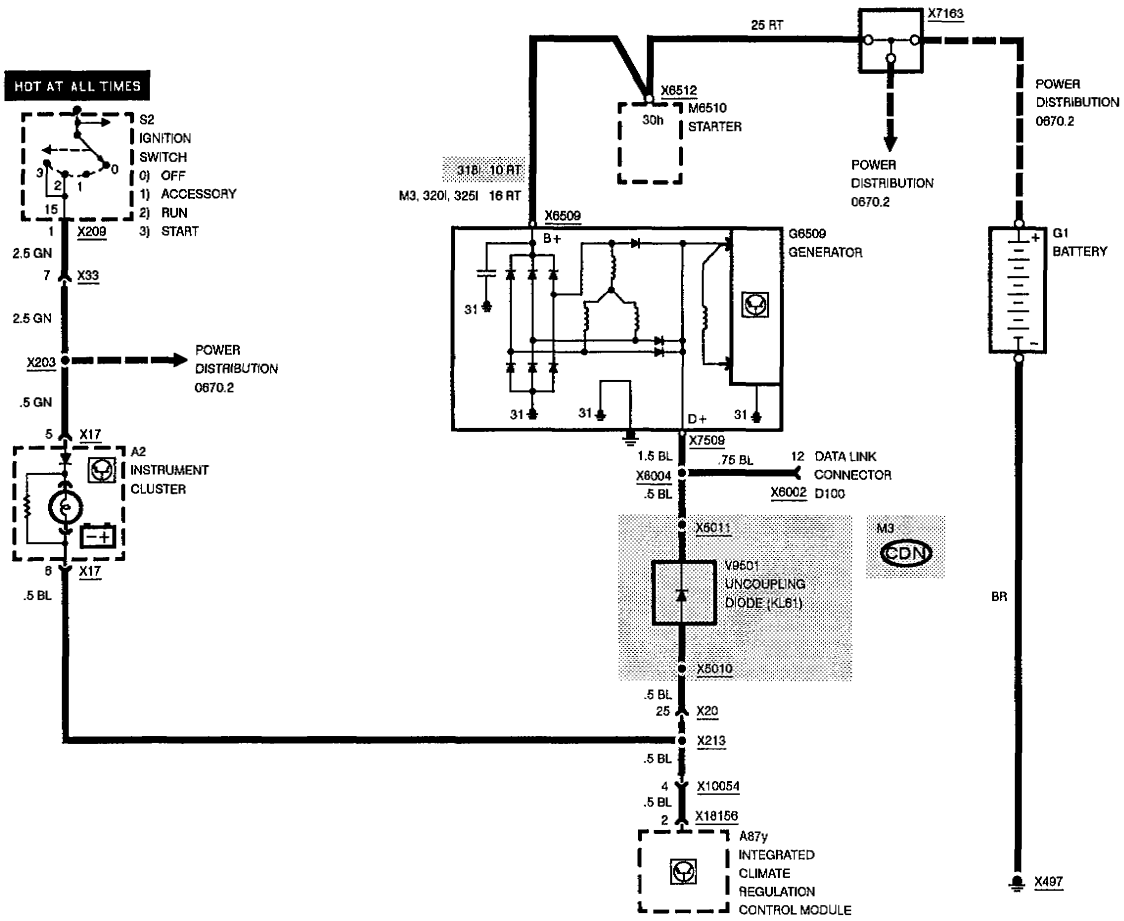
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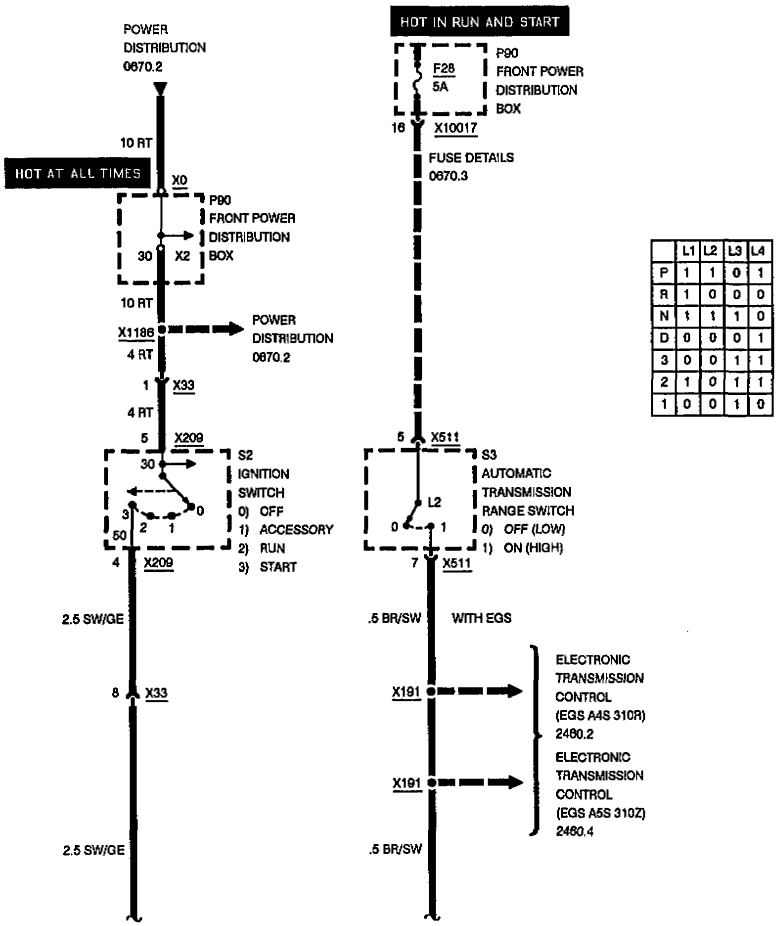
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CHARGING SYSTEM



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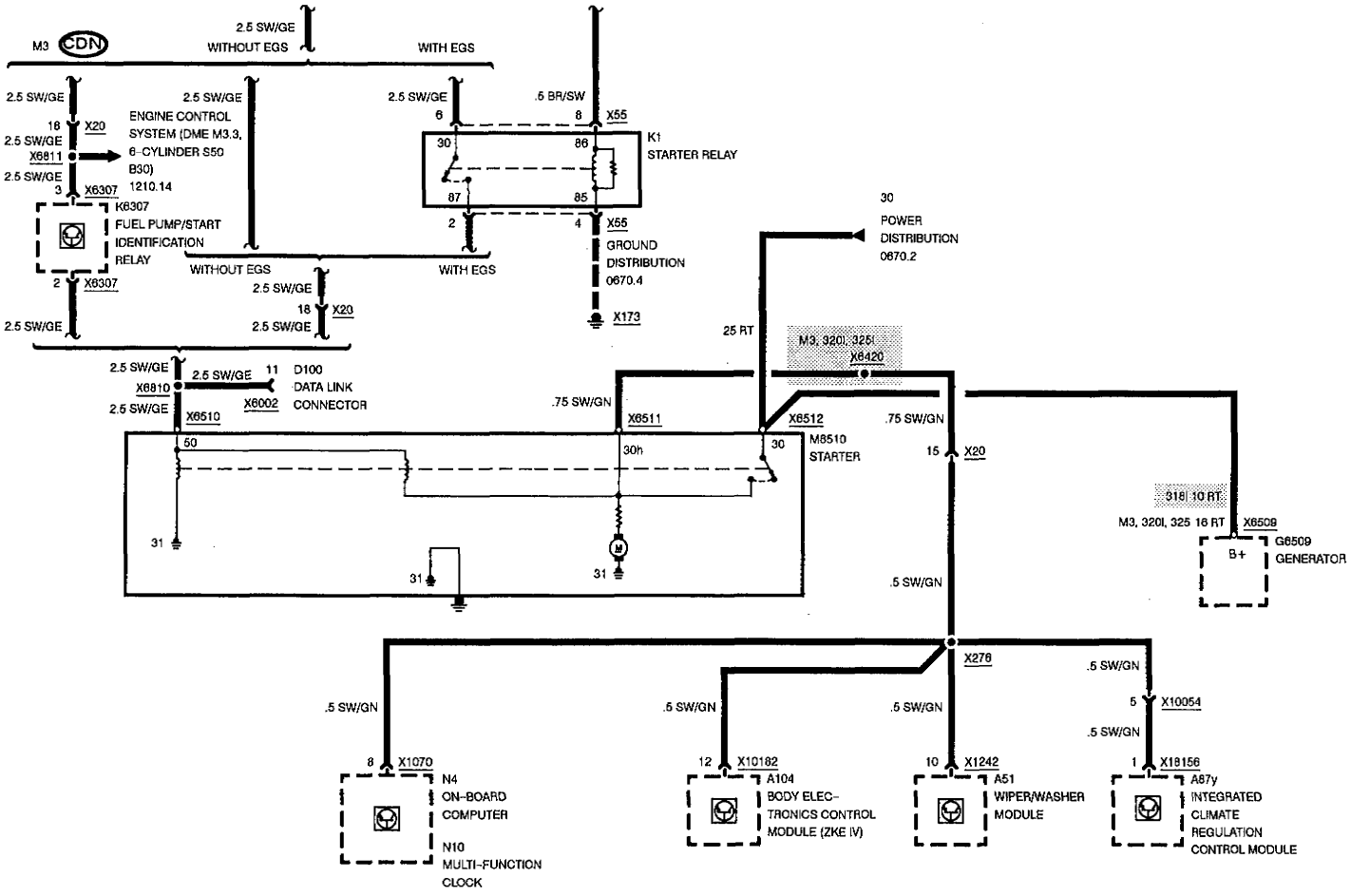
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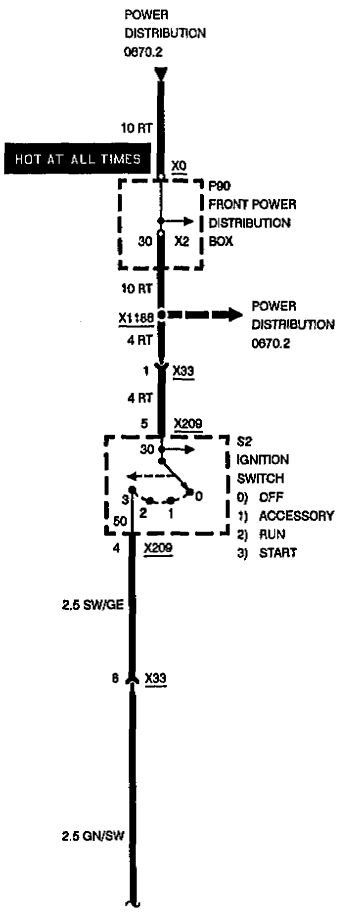
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

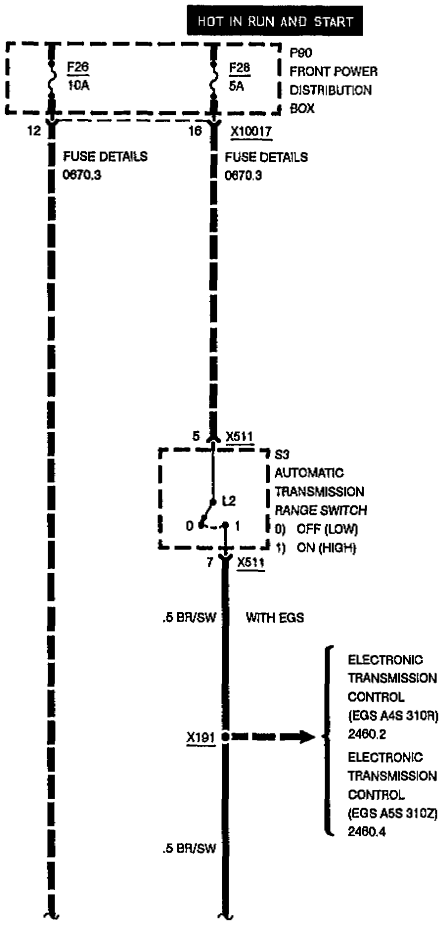
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EARLY PRODUCTION



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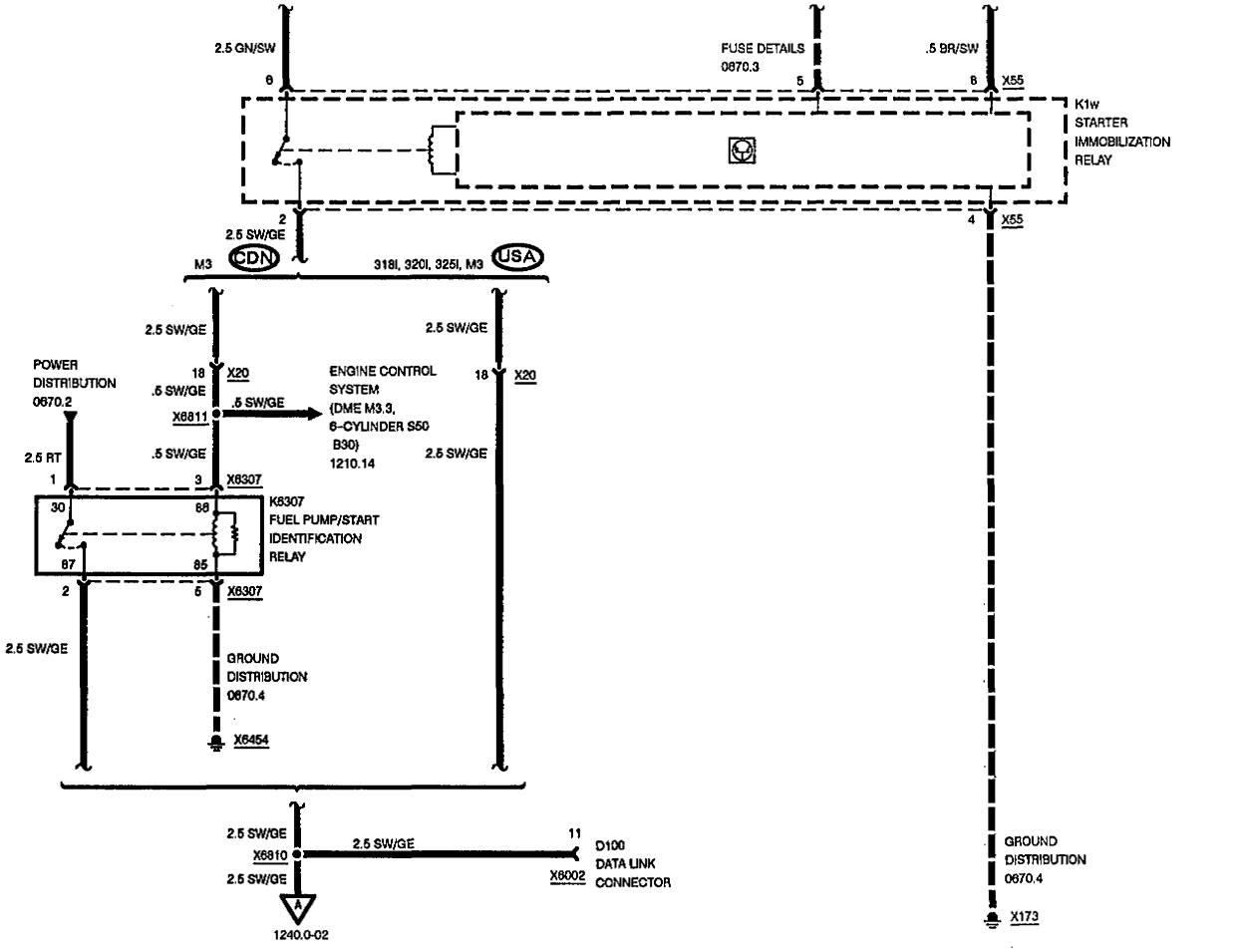




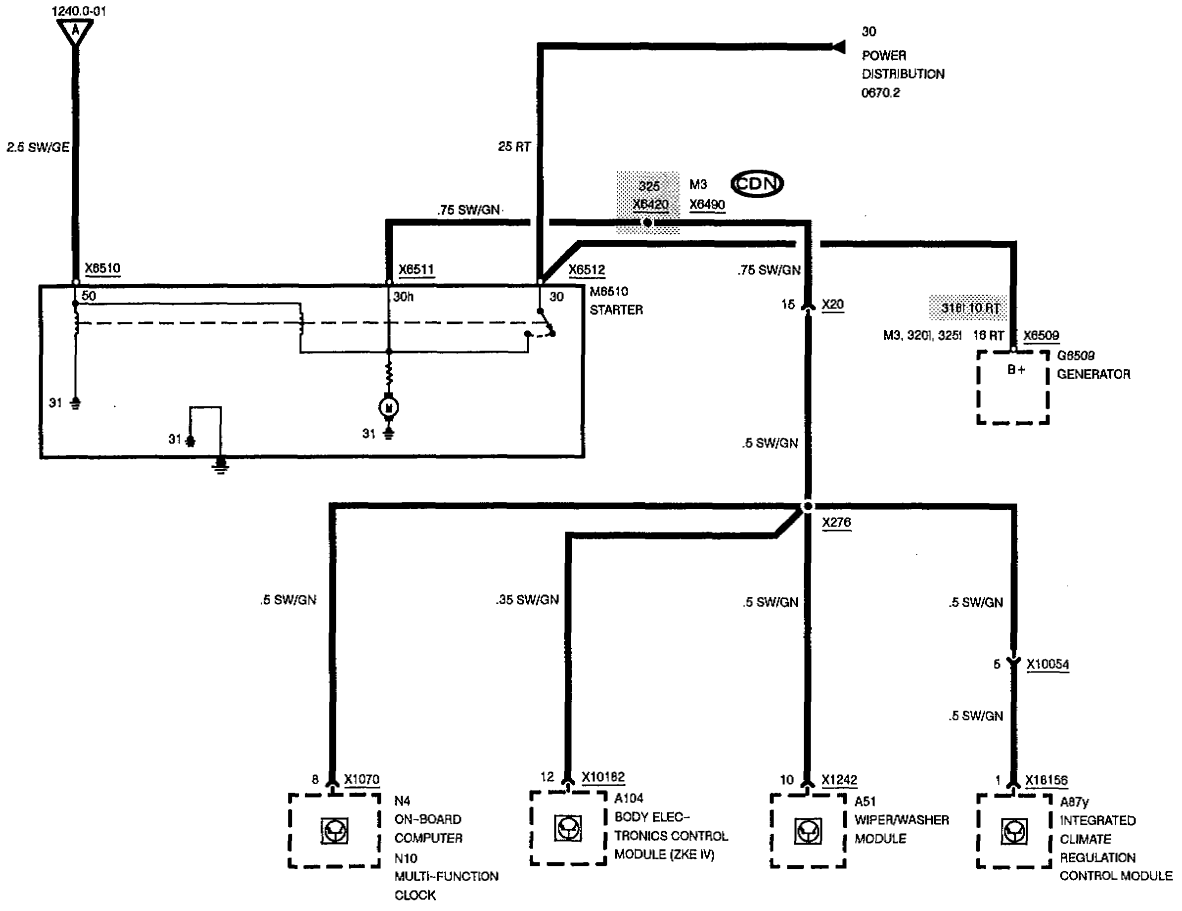
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

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LATE PRODUCTION



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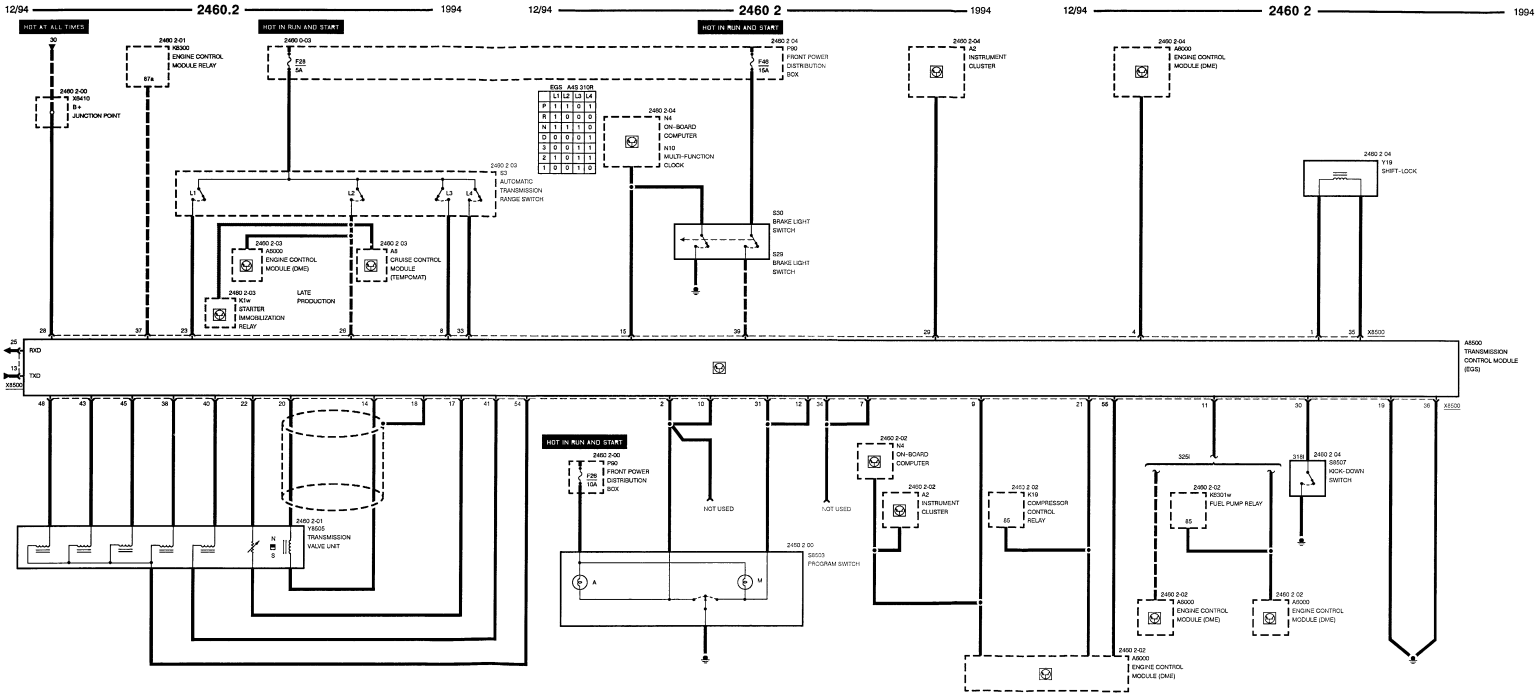


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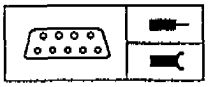
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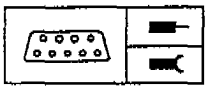
Pin Assignments

X8500

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

E = Input, A = Output, M = Ground

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Pin Assignments

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

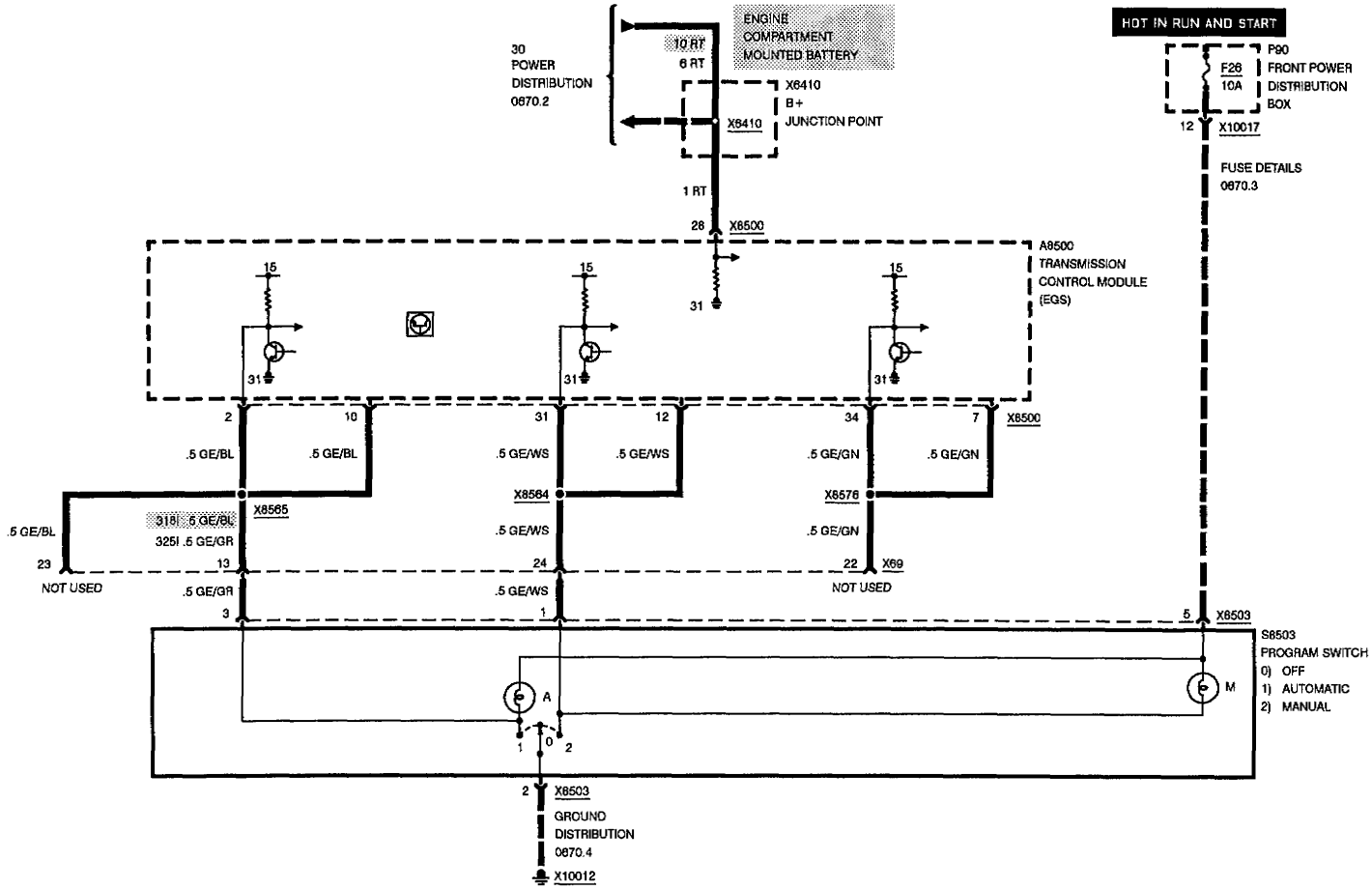
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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

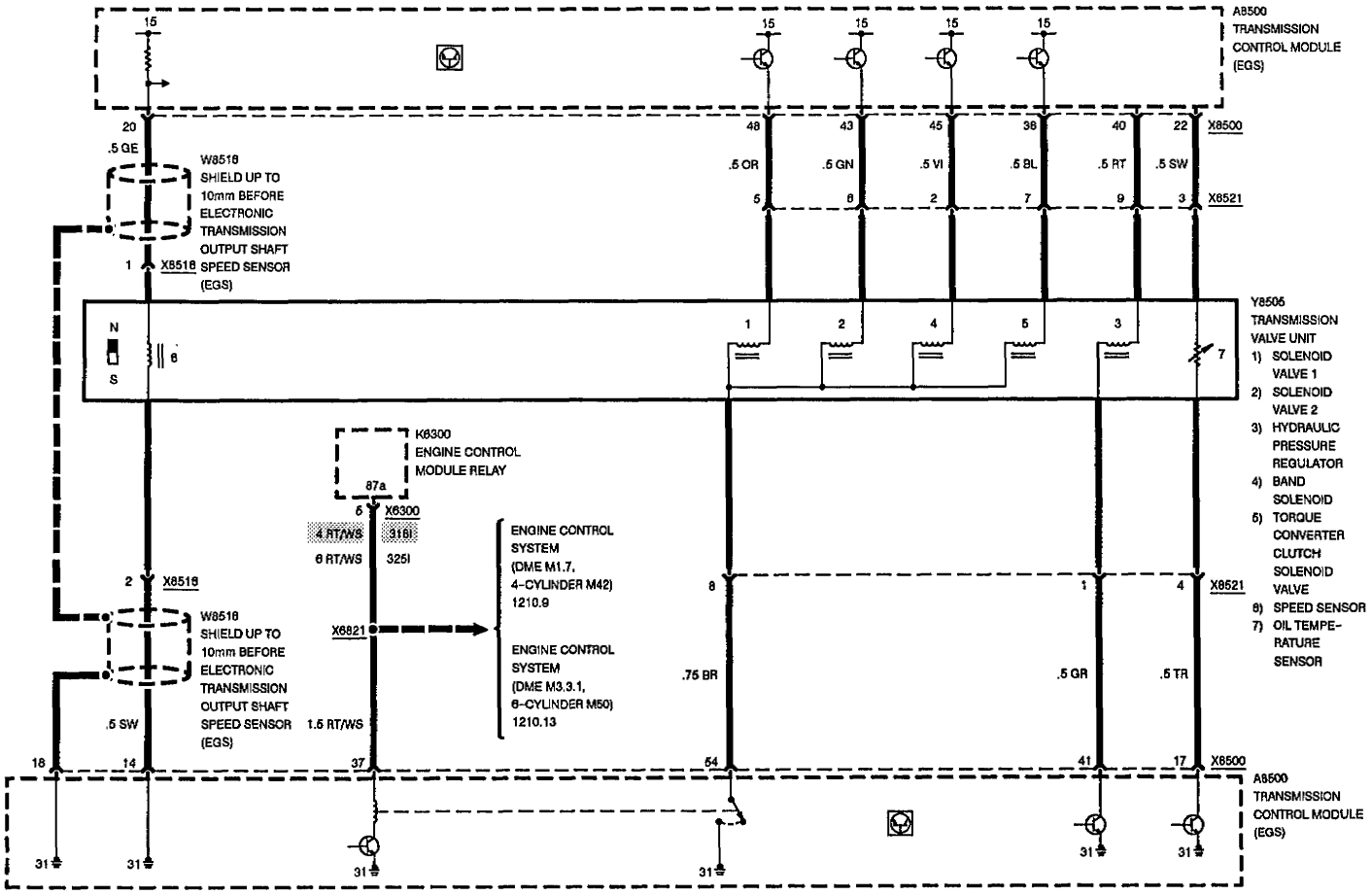
POWER, PROGRAM SWITCH



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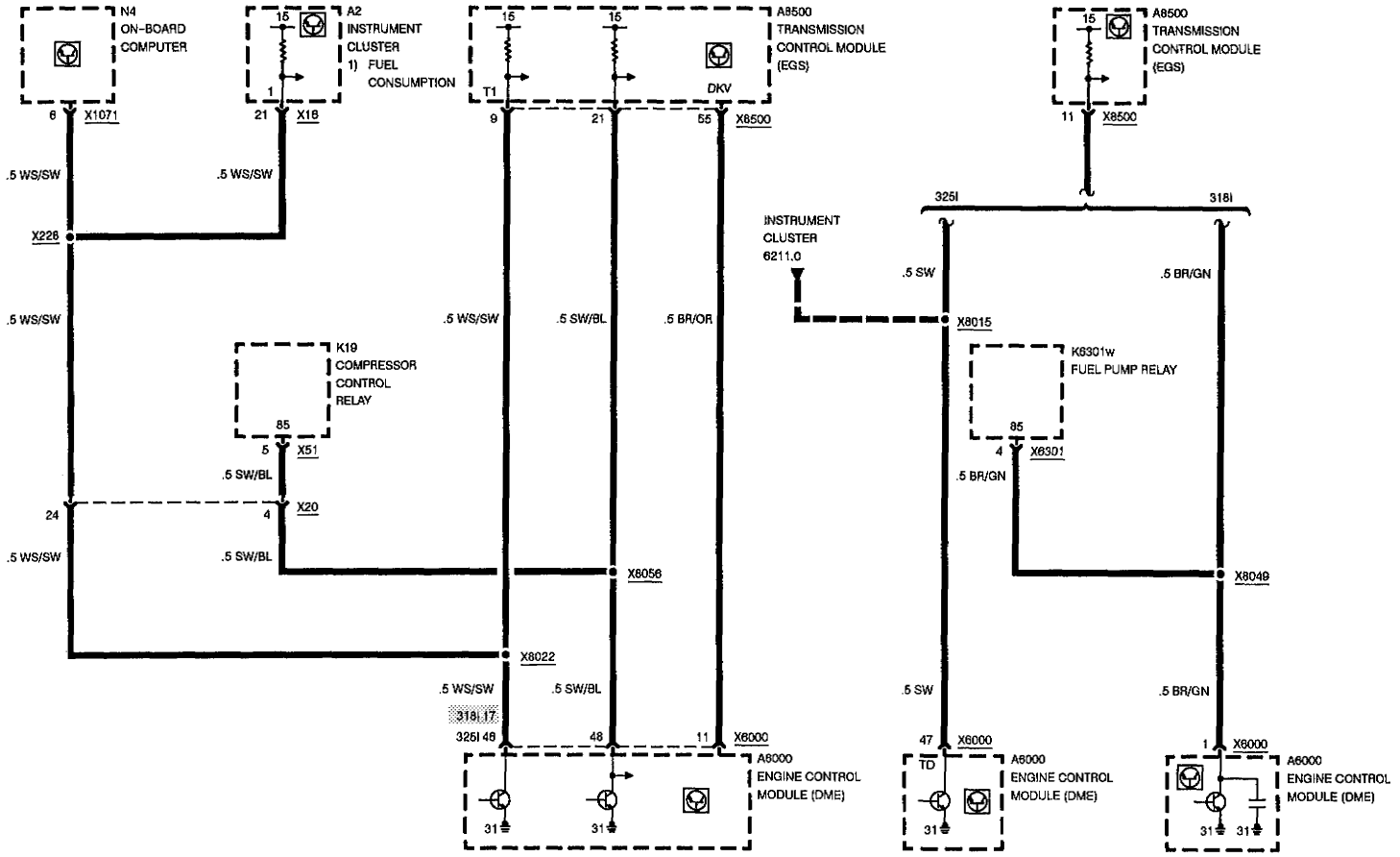
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR VALVE UNIT



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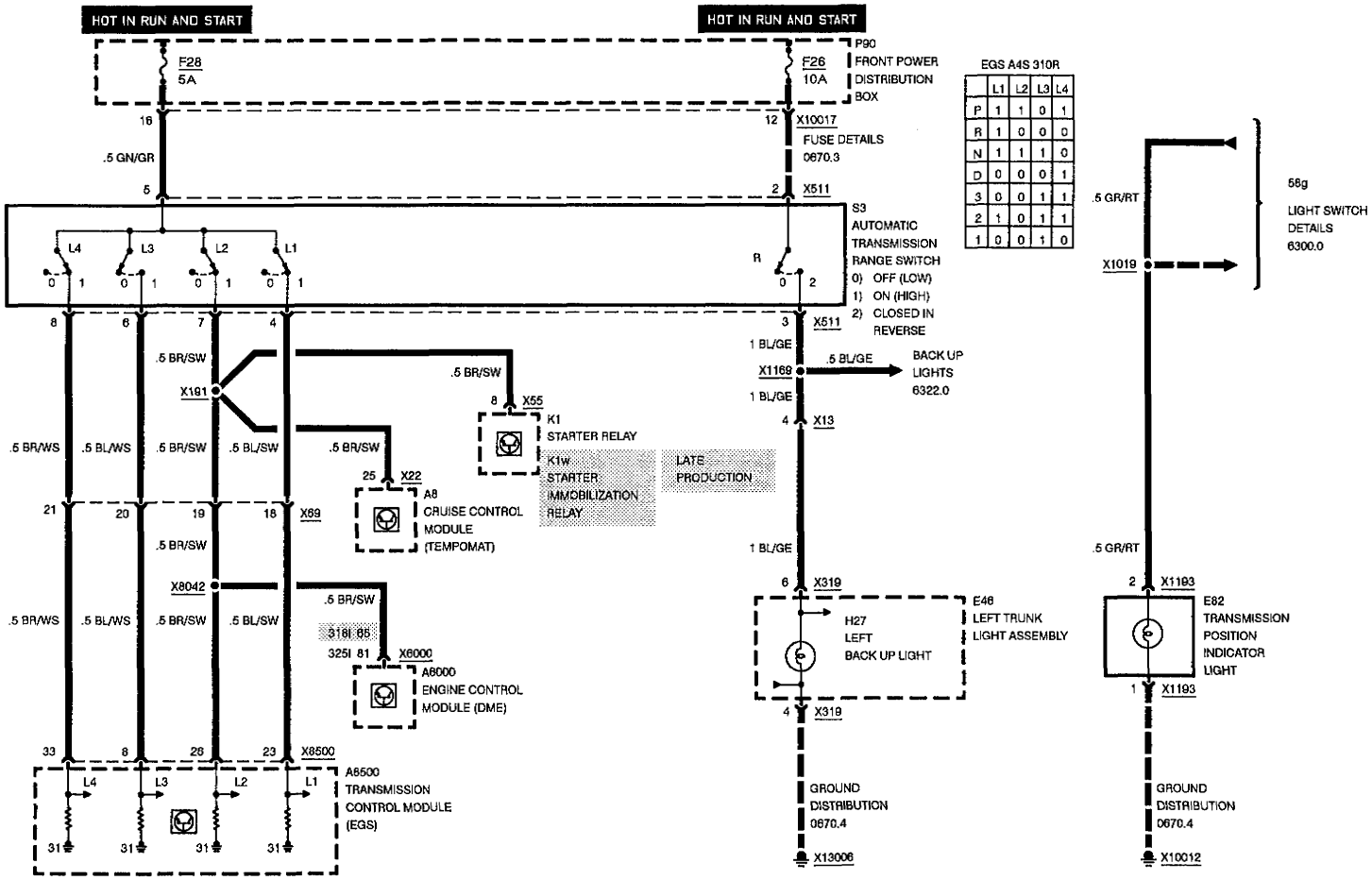
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



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ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

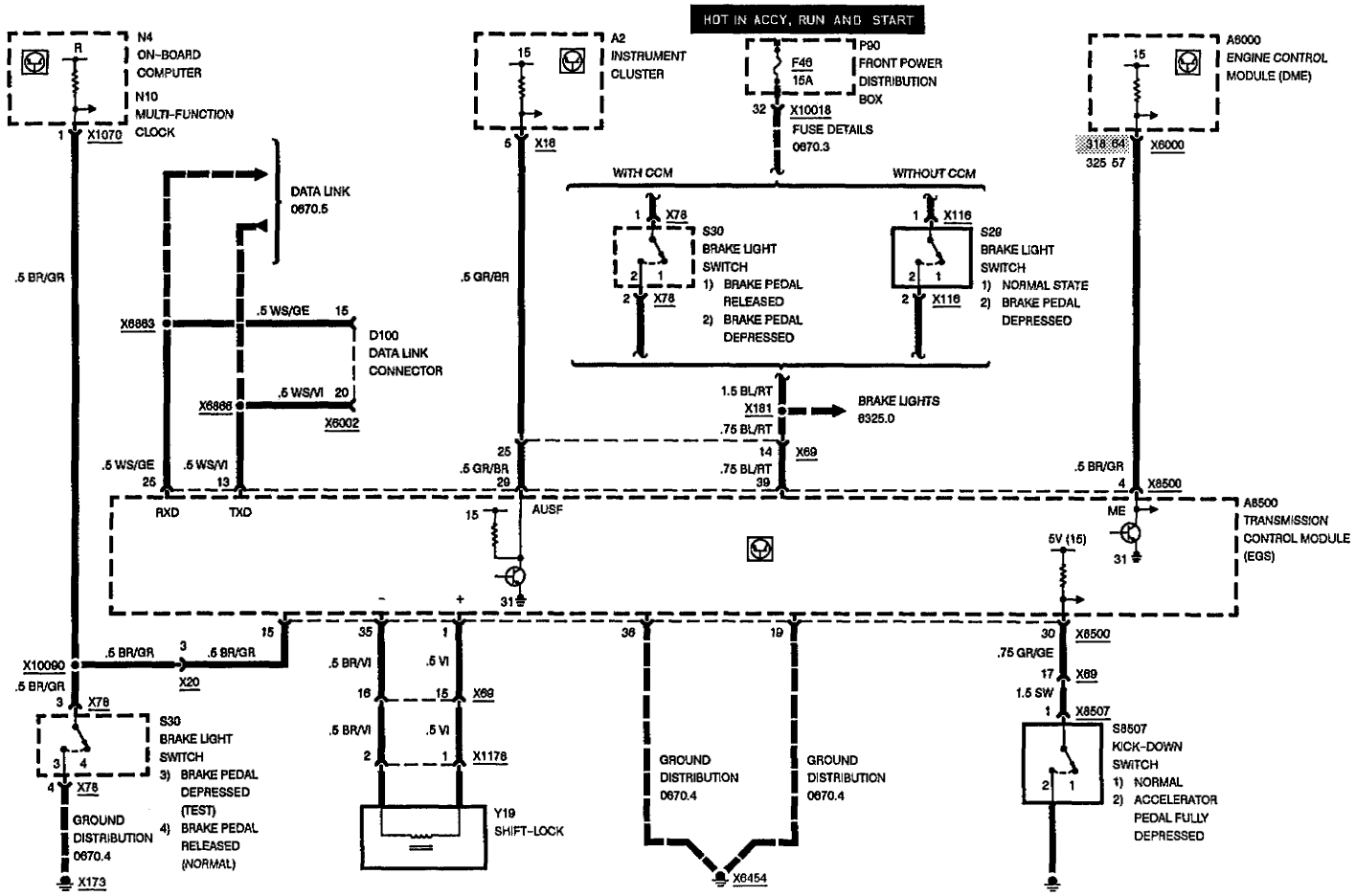
GEAR SELECTOR SWITCH



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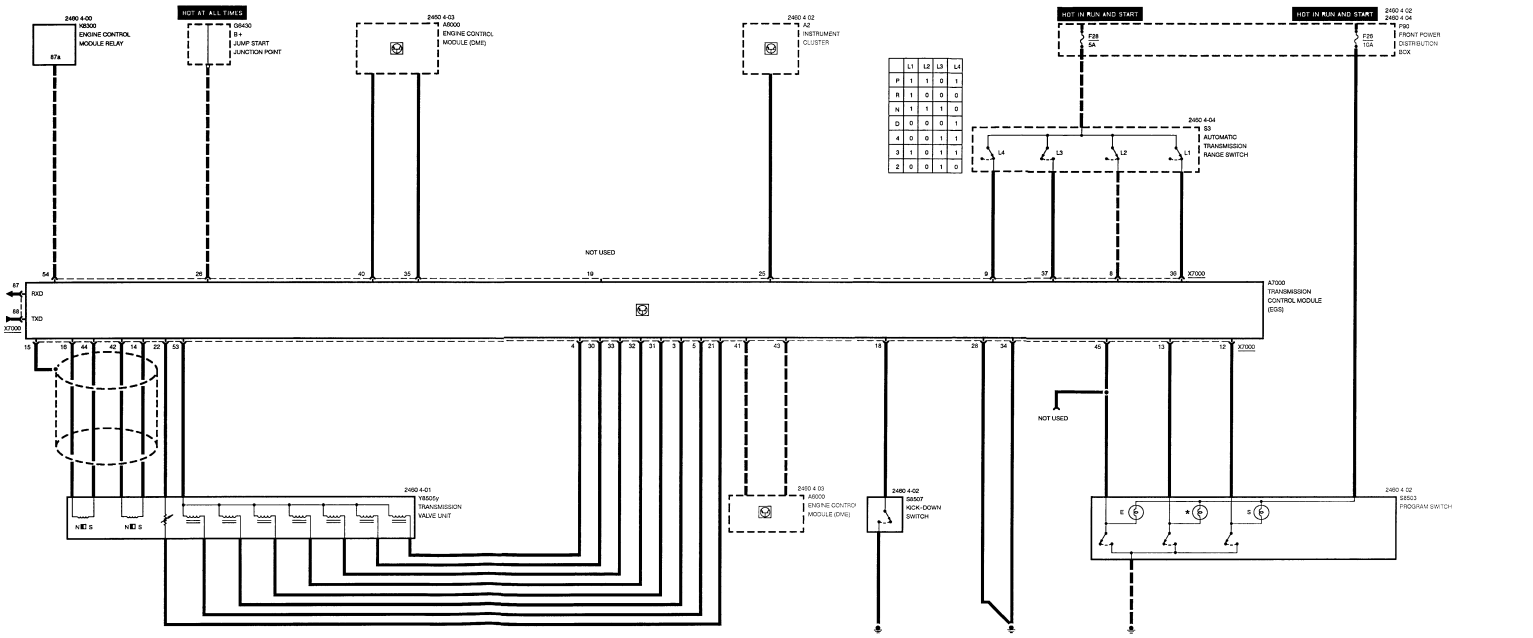
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH

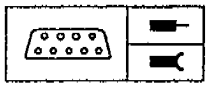


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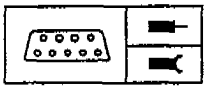
Pin Assignments

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		Not used	
20		Not used	
21	M	Ground oil temperature sensor	Transmission valve unit
22	E	Oil temperature sensor	Transmission valve unit
23		Not used	
24		Not used	
25	A	Fault indicator signal	Instrument cluster
26	E	Battery voltage	Jump start junction point
27		Not used	
28	M	Ground, electronics	Ground
29		Not used	
30	A	Solenoid valve 1	Transmission valve unit

E = Input, A = Output, M = Ground

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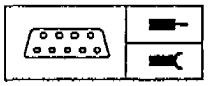


Pin Assignments

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

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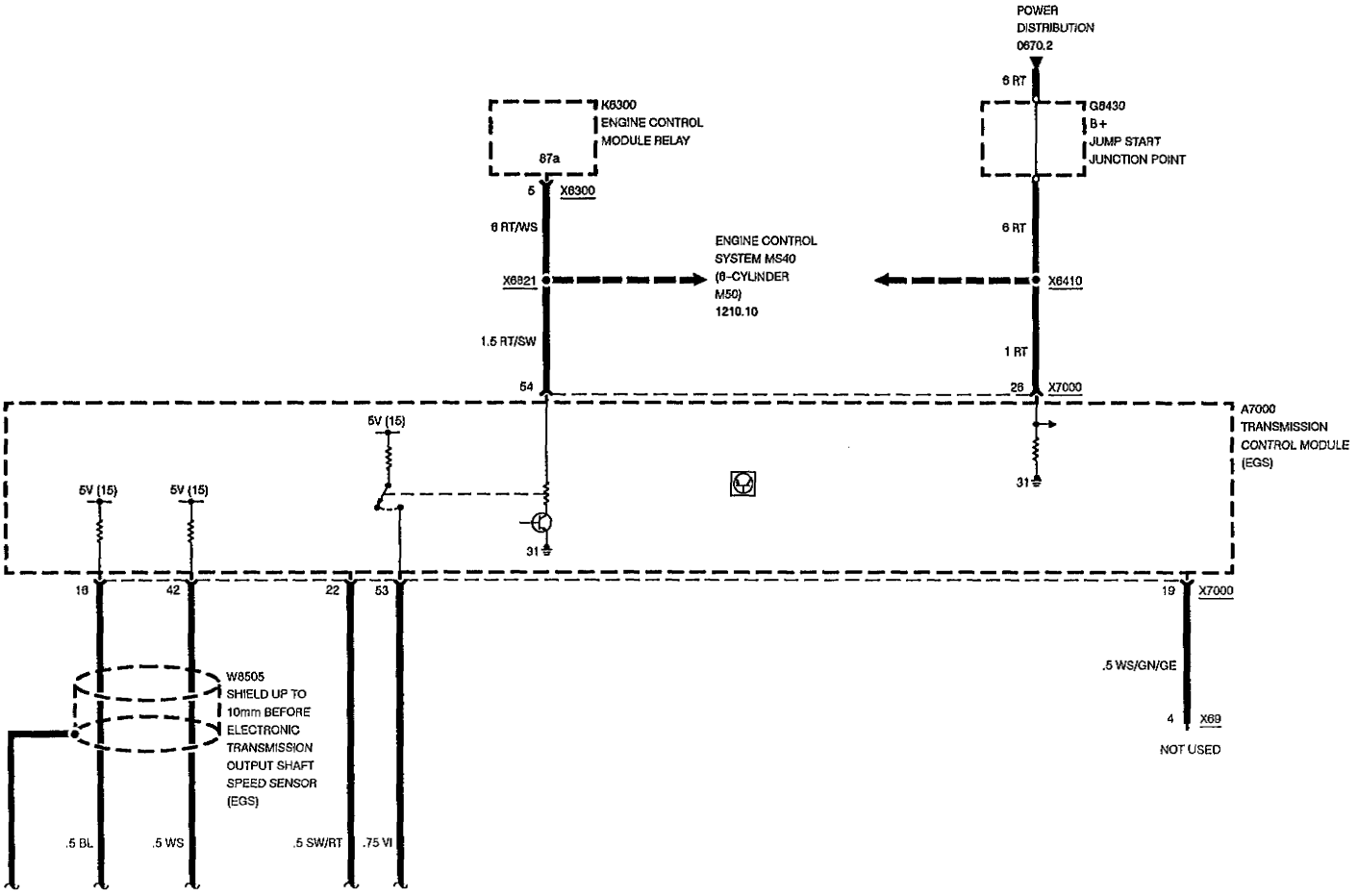
Pin Assignments

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

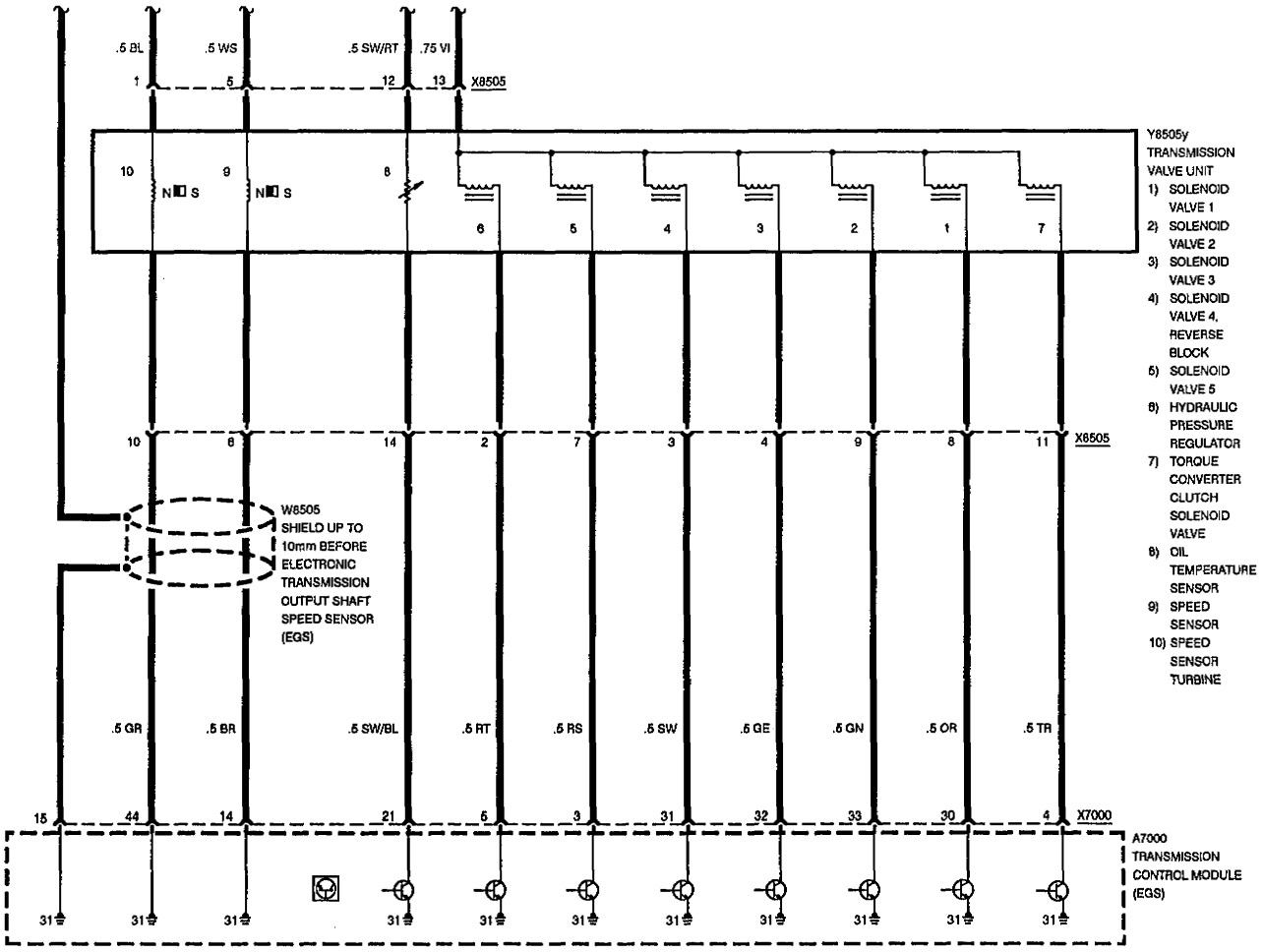
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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



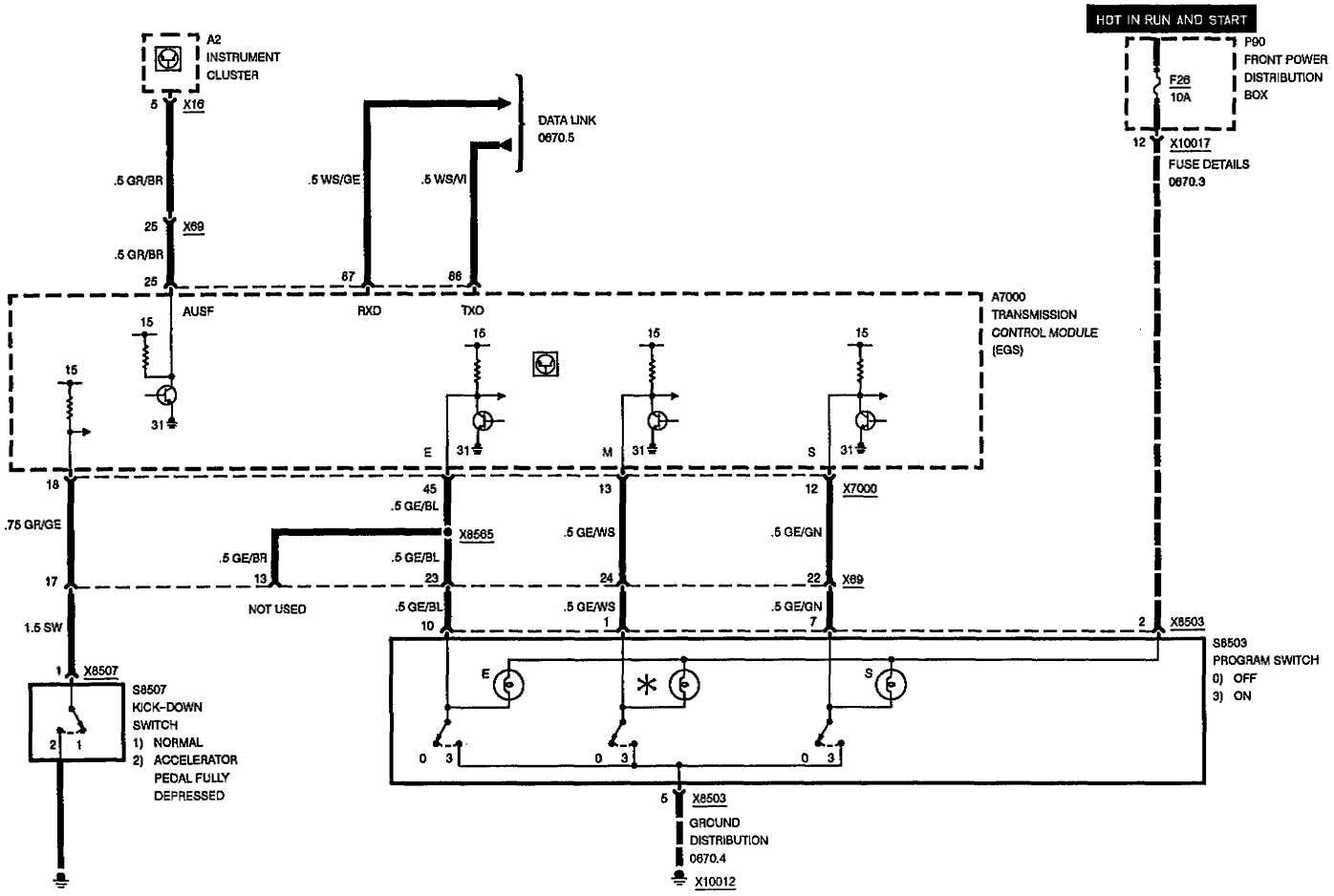
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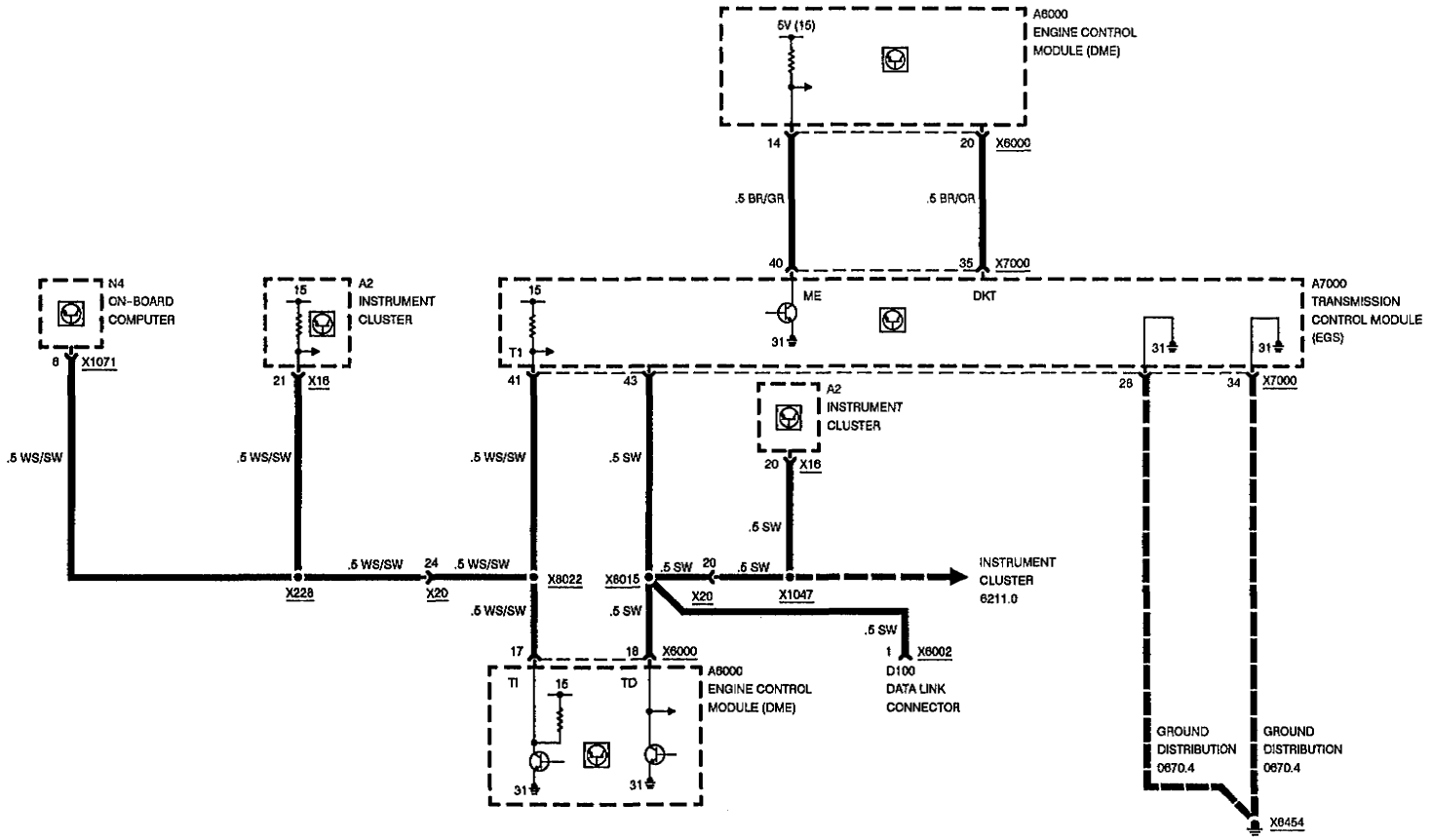
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

CDN



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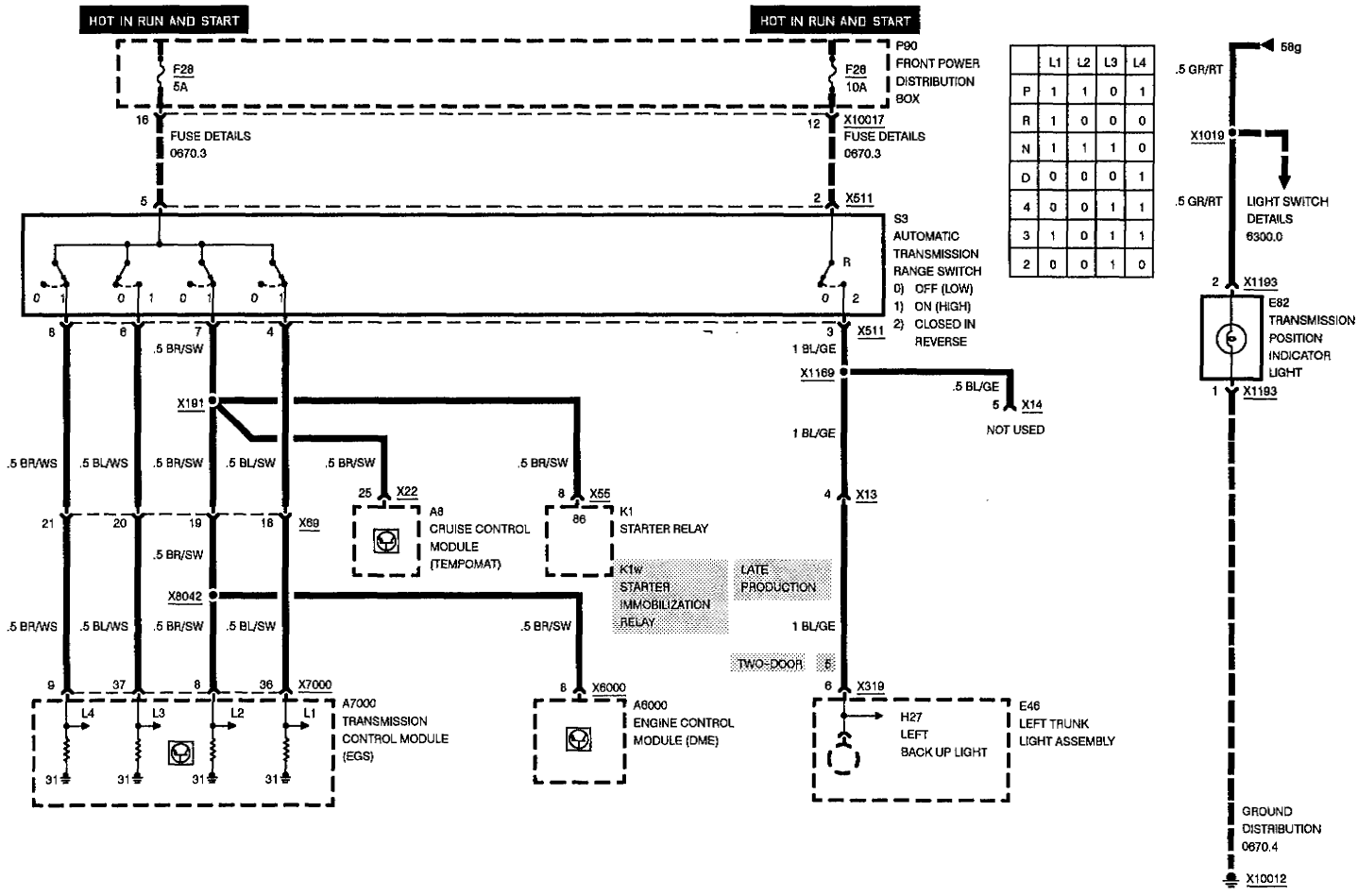
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



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ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

CDN

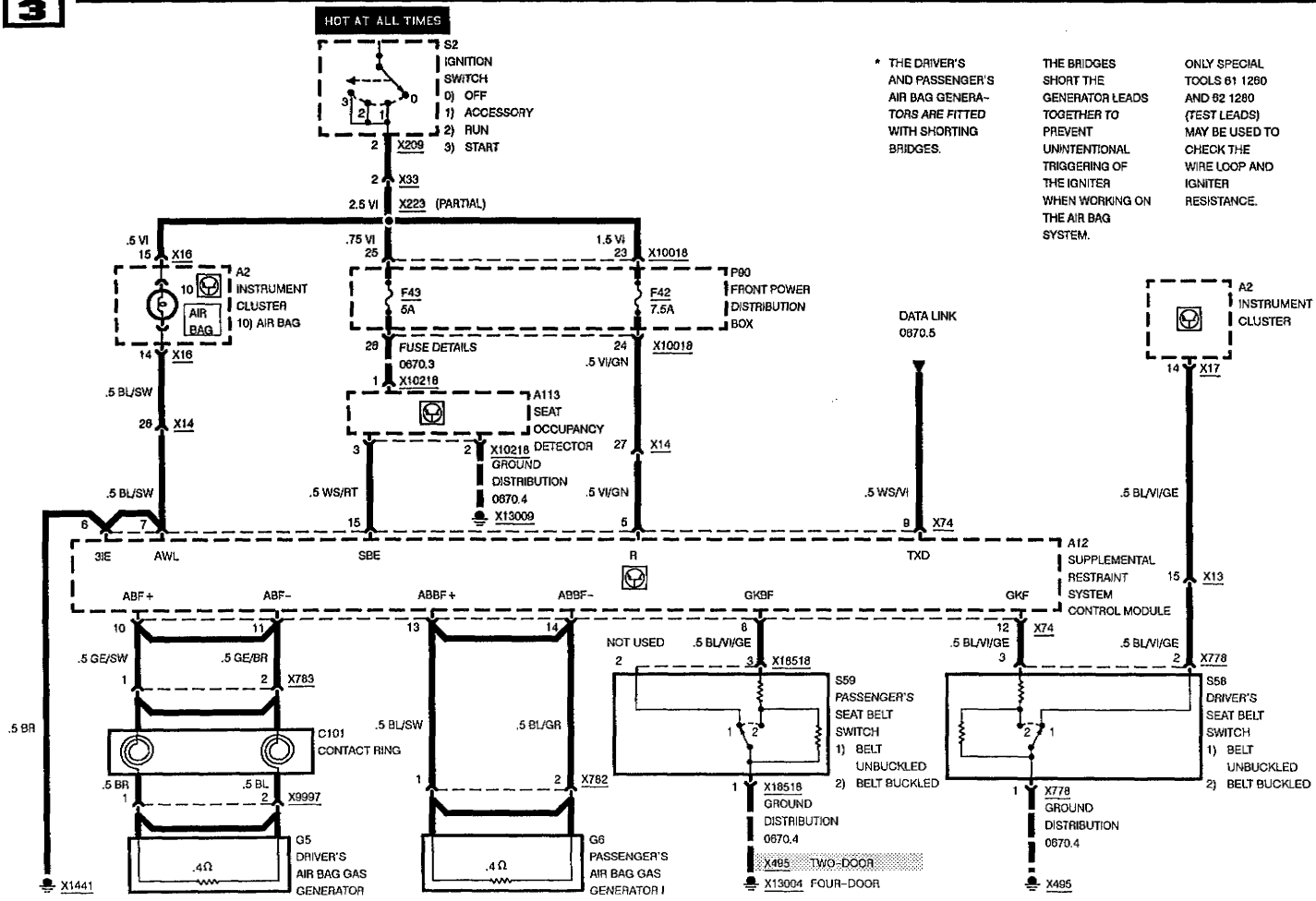


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

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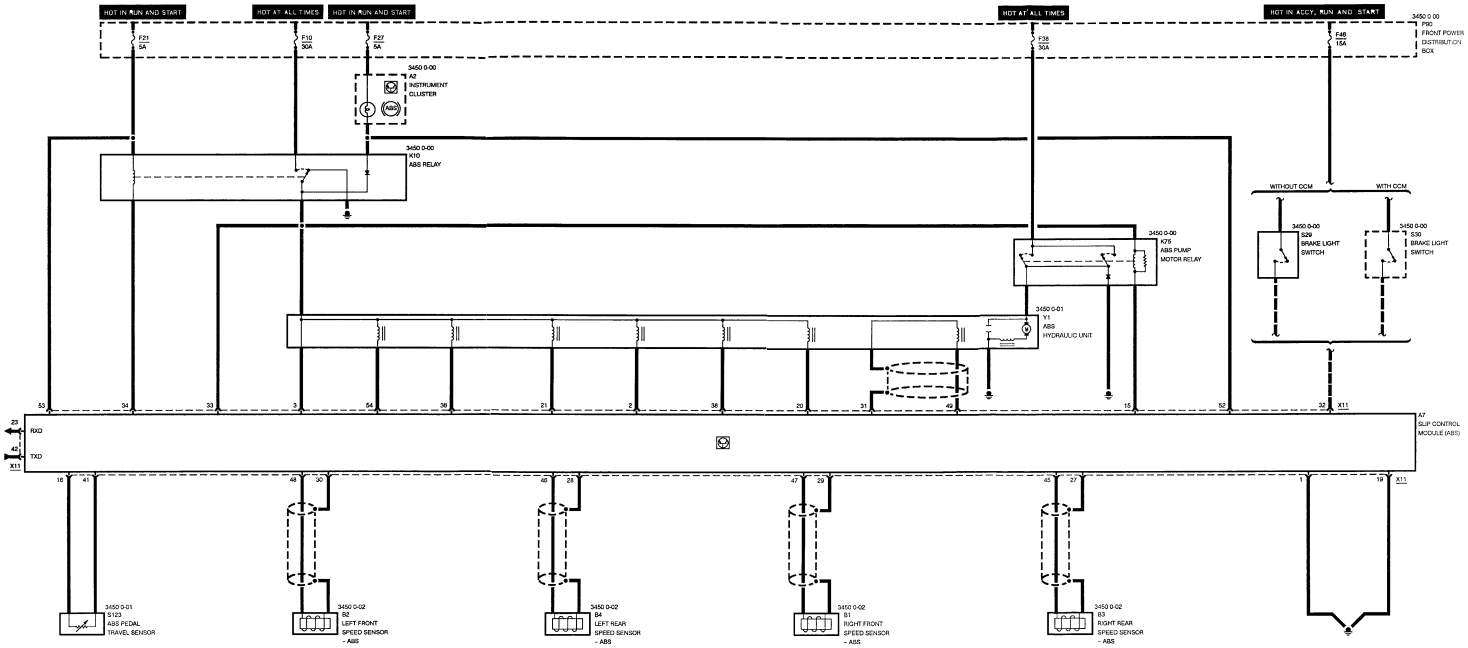
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

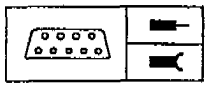


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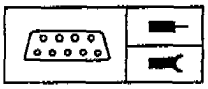
Pin Assignments

X11

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

E = Input, A = Output, M = Ground

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Pin Assignments

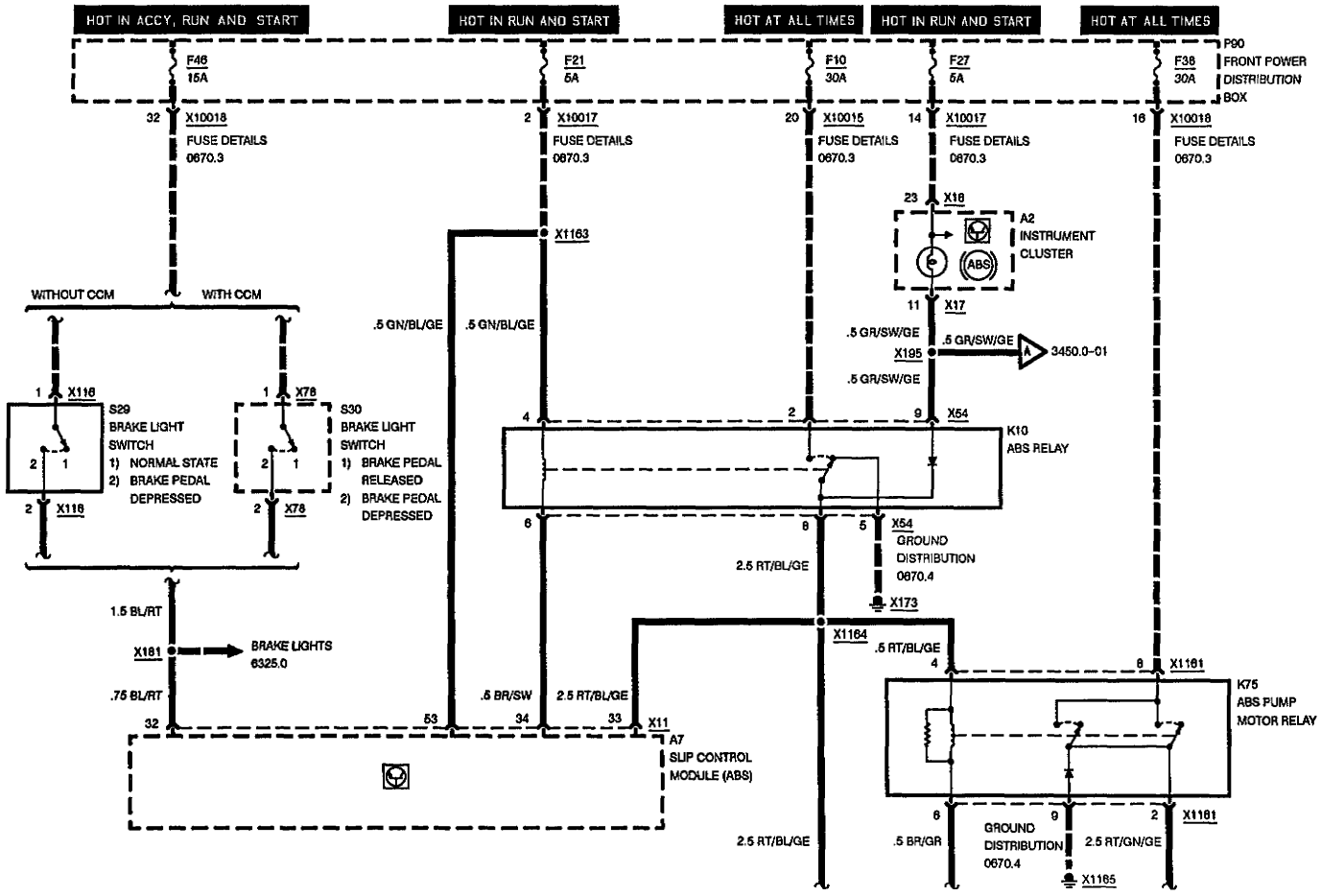
Pin	Type	Description/Function	Connection
31	E	Pump motor sensor shield	ABS hydraulic unit
32	E	Brake pedal position	Brake light switch
33	E	Operating voltage	ABS relay
34	A	ABS relay control	ABS relay
35		Not used	
36	A	Rear axle outlet valve control	ABS hydraulic unit
37		Not used	
38	A	Inlet valve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

E = Input, A = Output, M = Ground

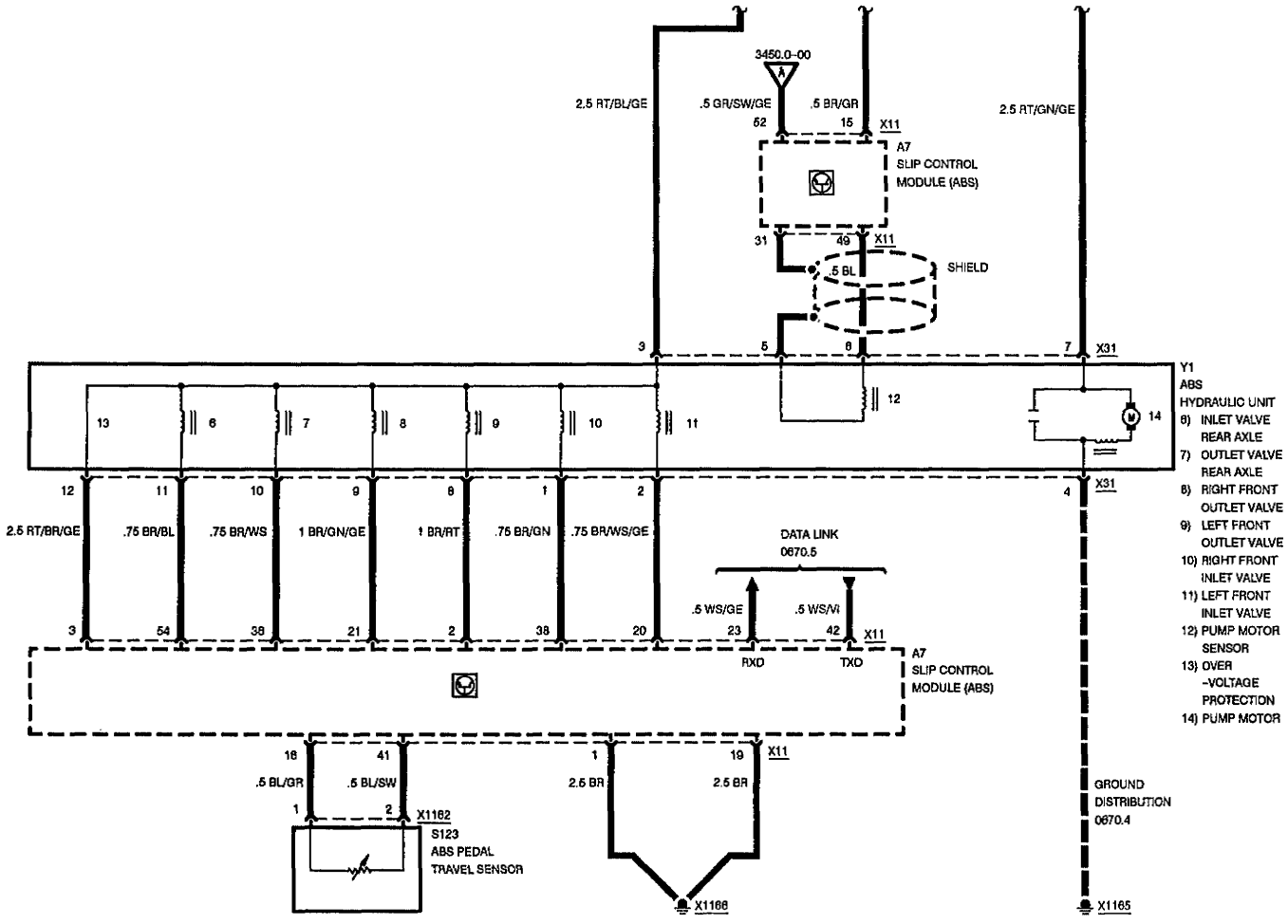
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SLIP CONTROL (ABS)

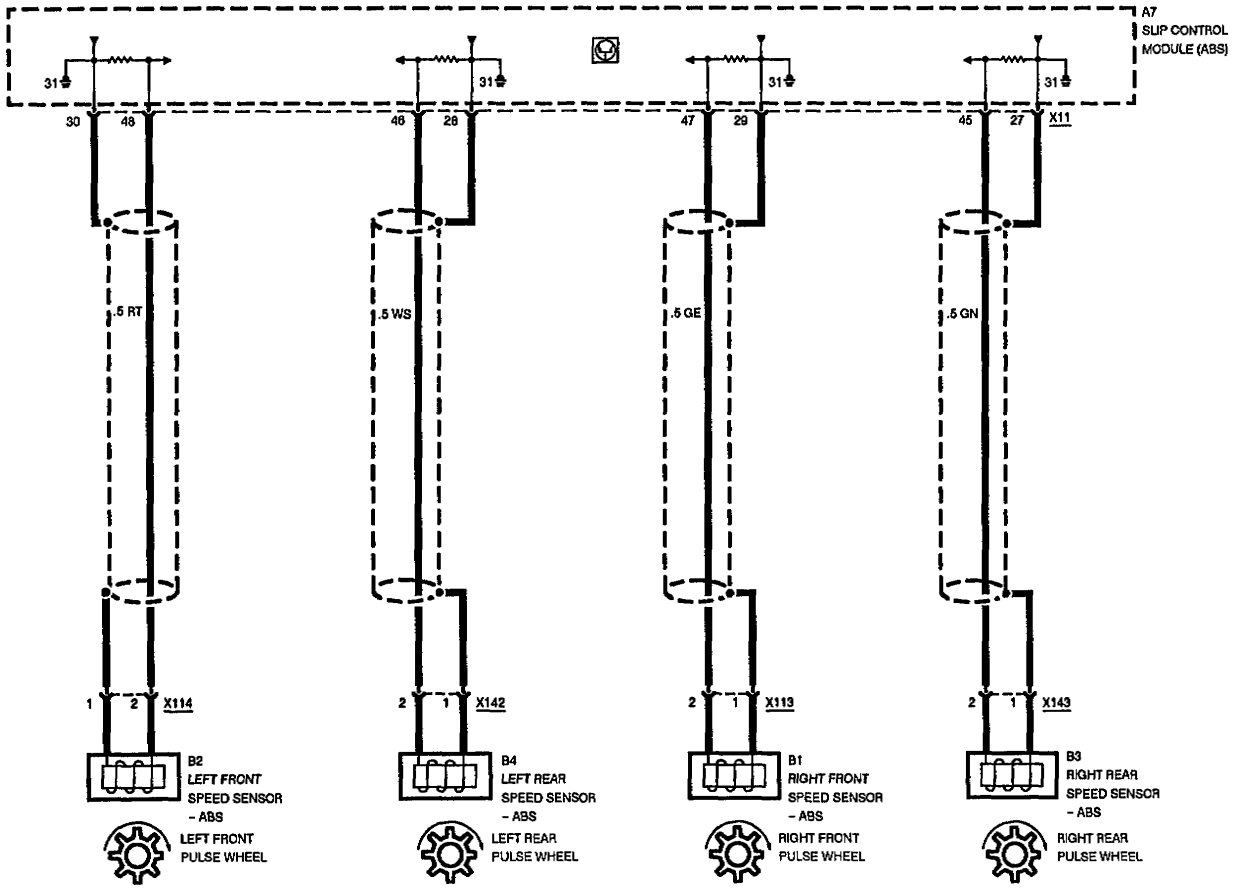


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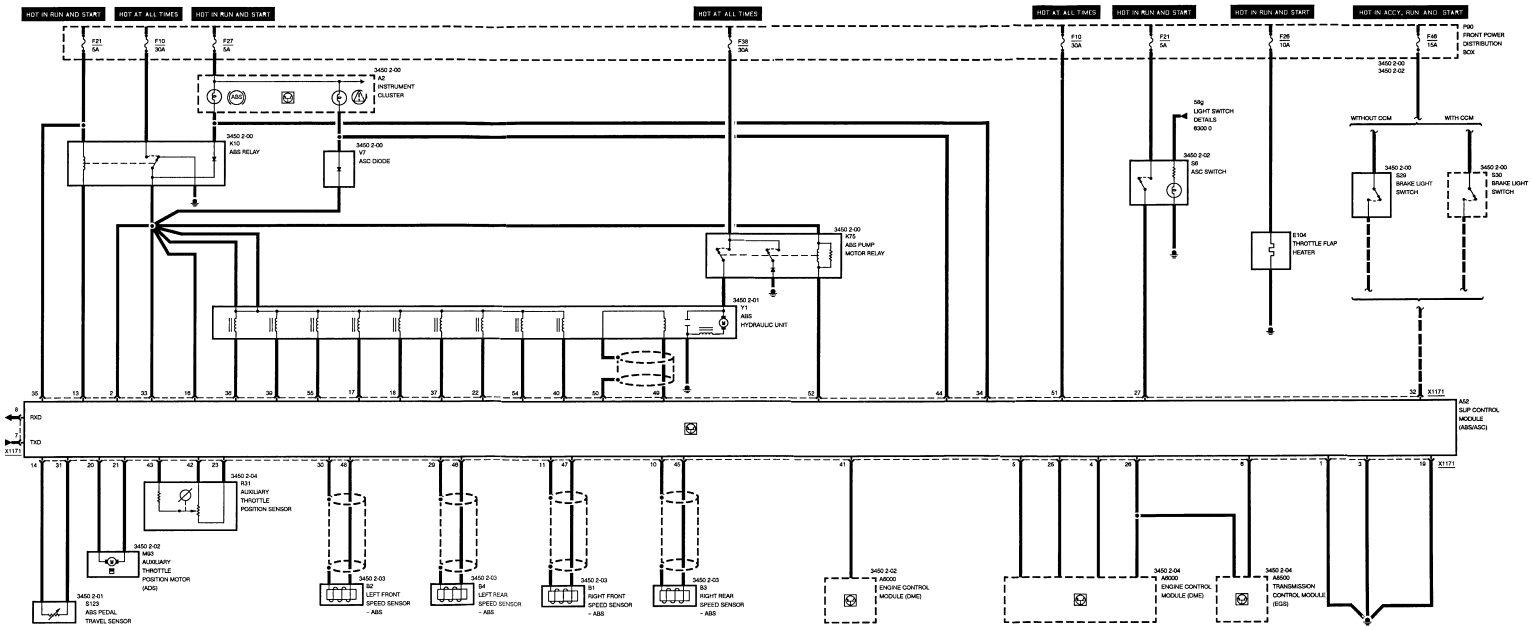
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SLIP CONTROL (ABS)

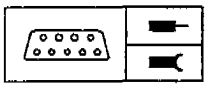


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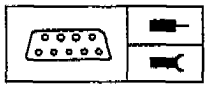
Pin Assignments

X1171

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

E = Input, A = Output, M = Ground

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Pin Assignments

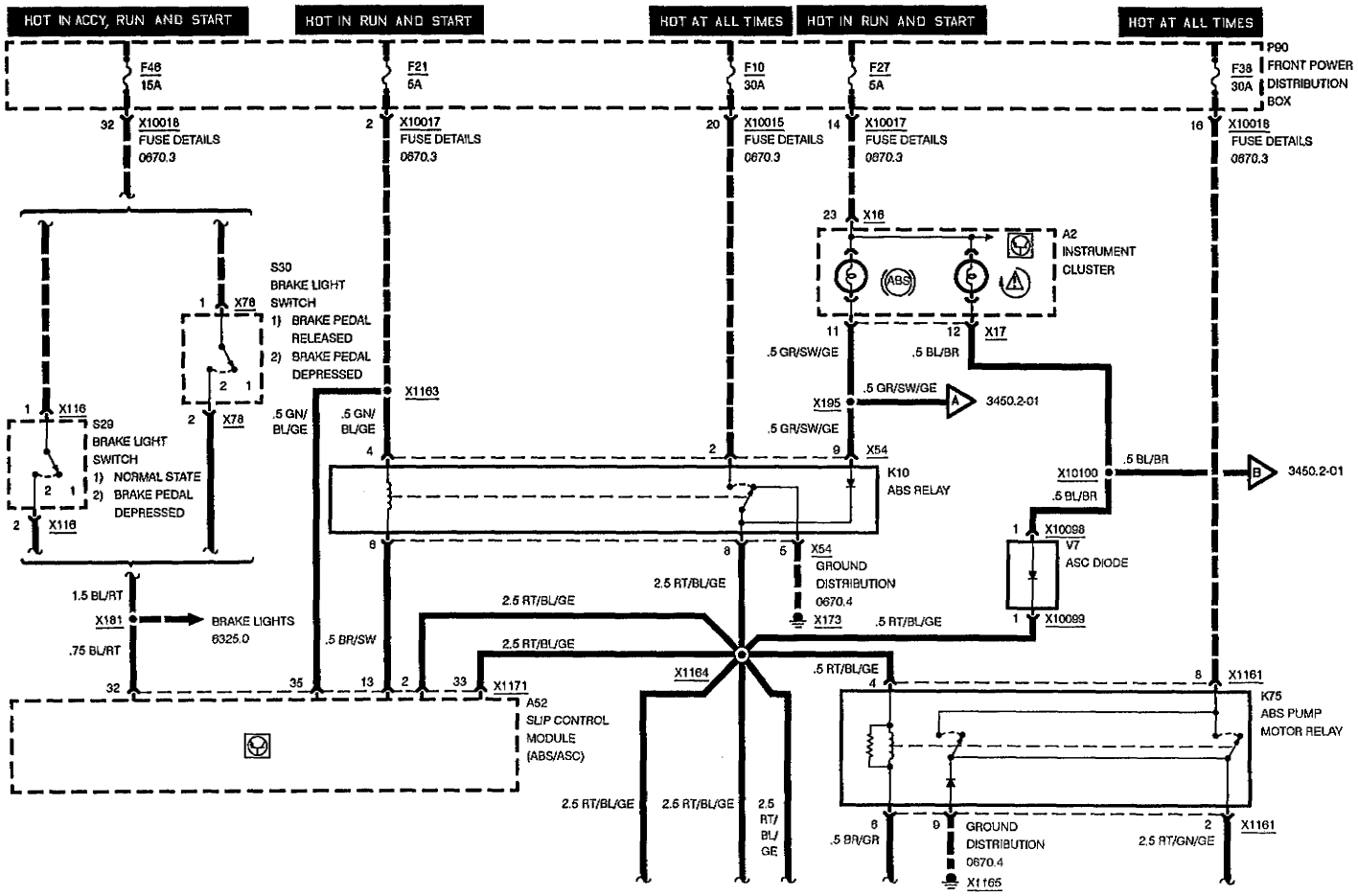
Pin	Type	Description/Function	Connection
31	A	Signal ABS-travel sensor	ABS-travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS-protection relay
34	A	ABS-lamp control	Instrument cluster
35	E	Ignition signal	Ignition switch
36	A	Solenoid valve	ABS-hydraulic unit
37	A	Solenoid valve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

E = Input, A = Output, M = Ground

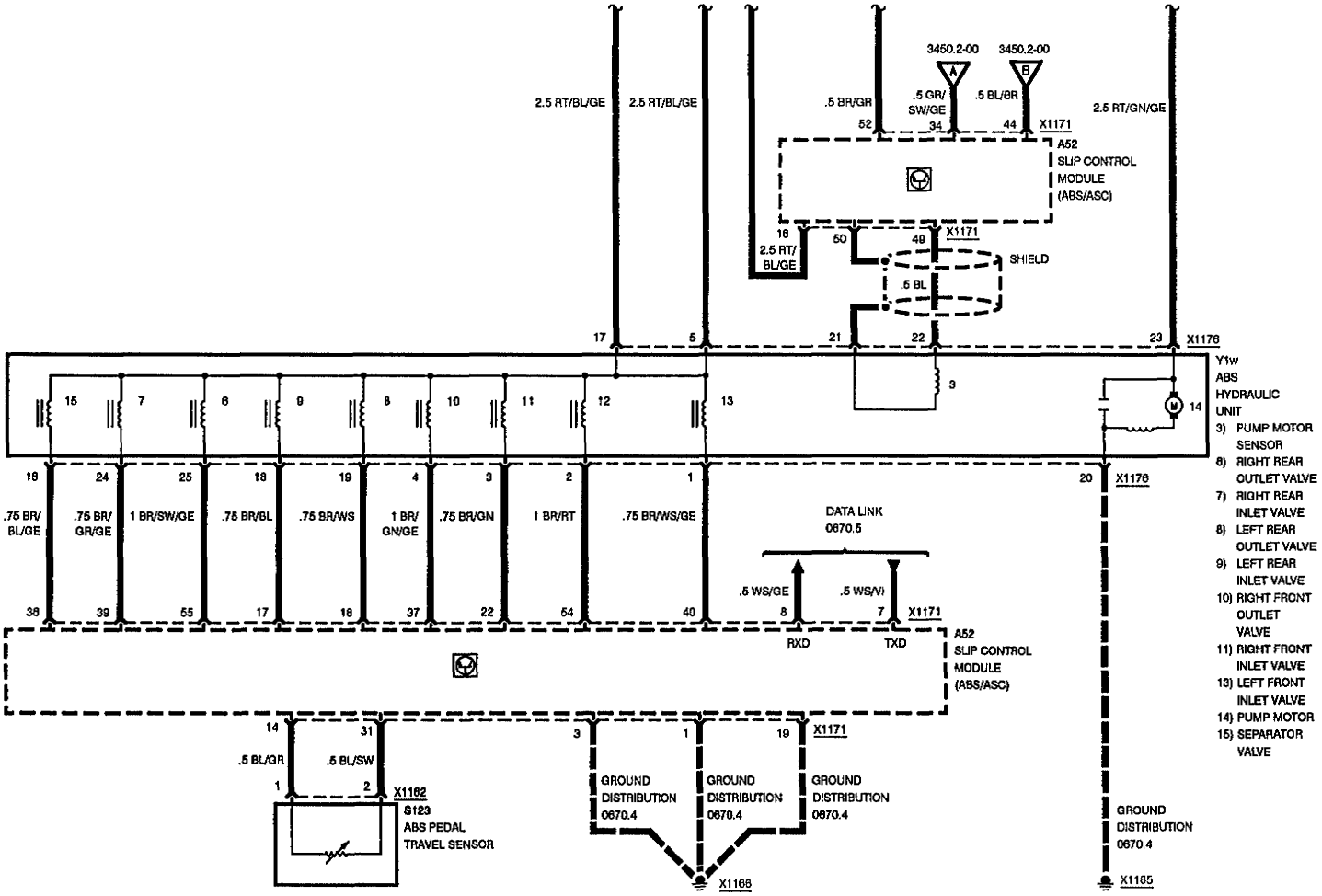
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SLIP CONTROL (ABS/ASC+T)



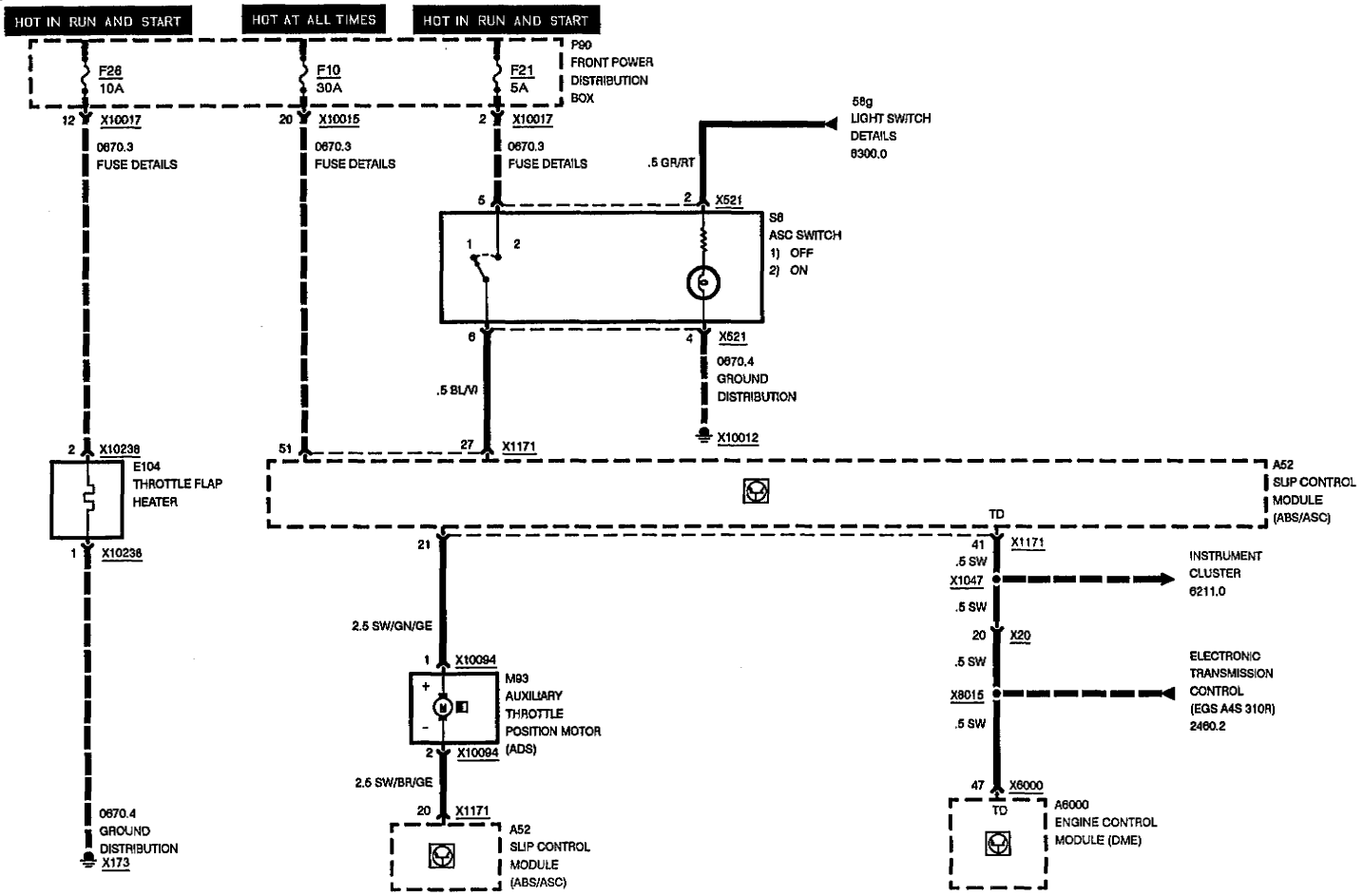
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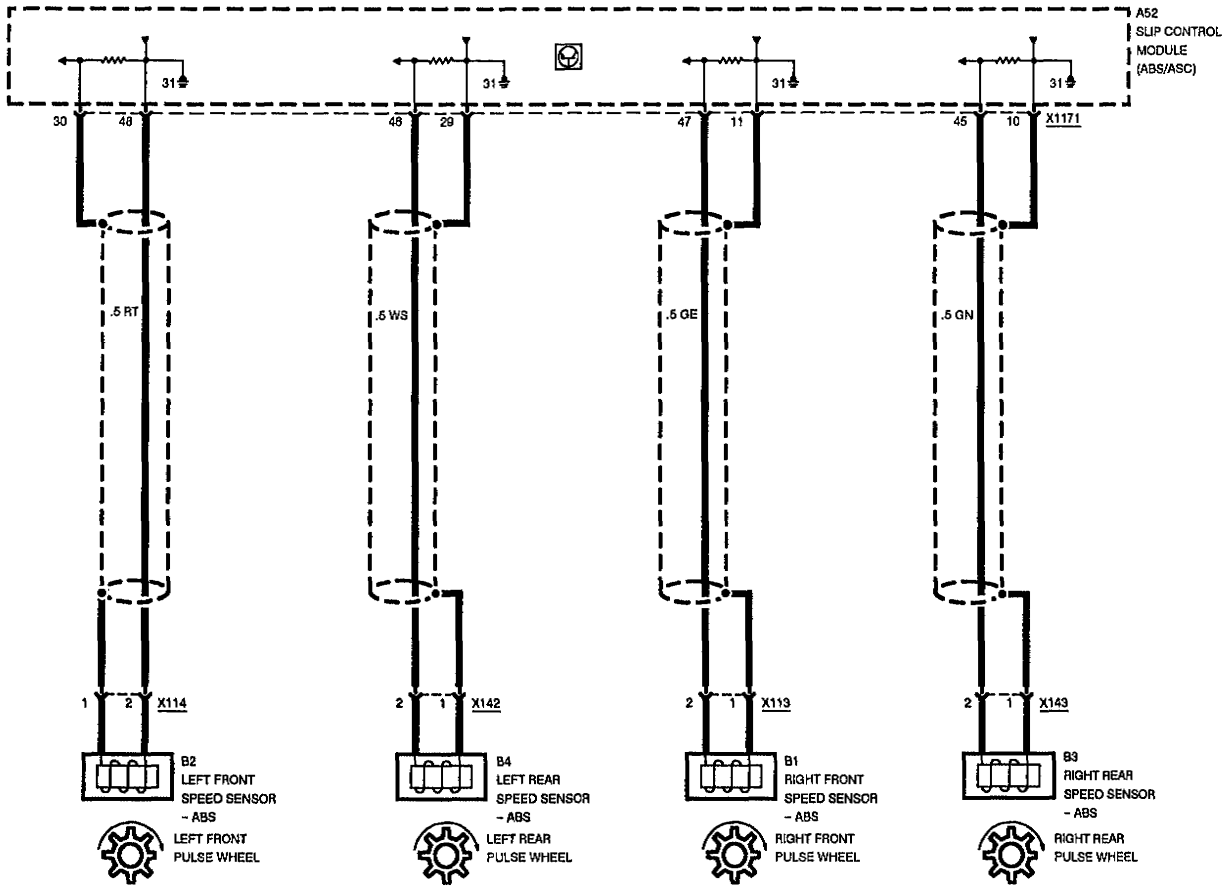
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SLIP CONTROL (ABS/ASC+T)

325i



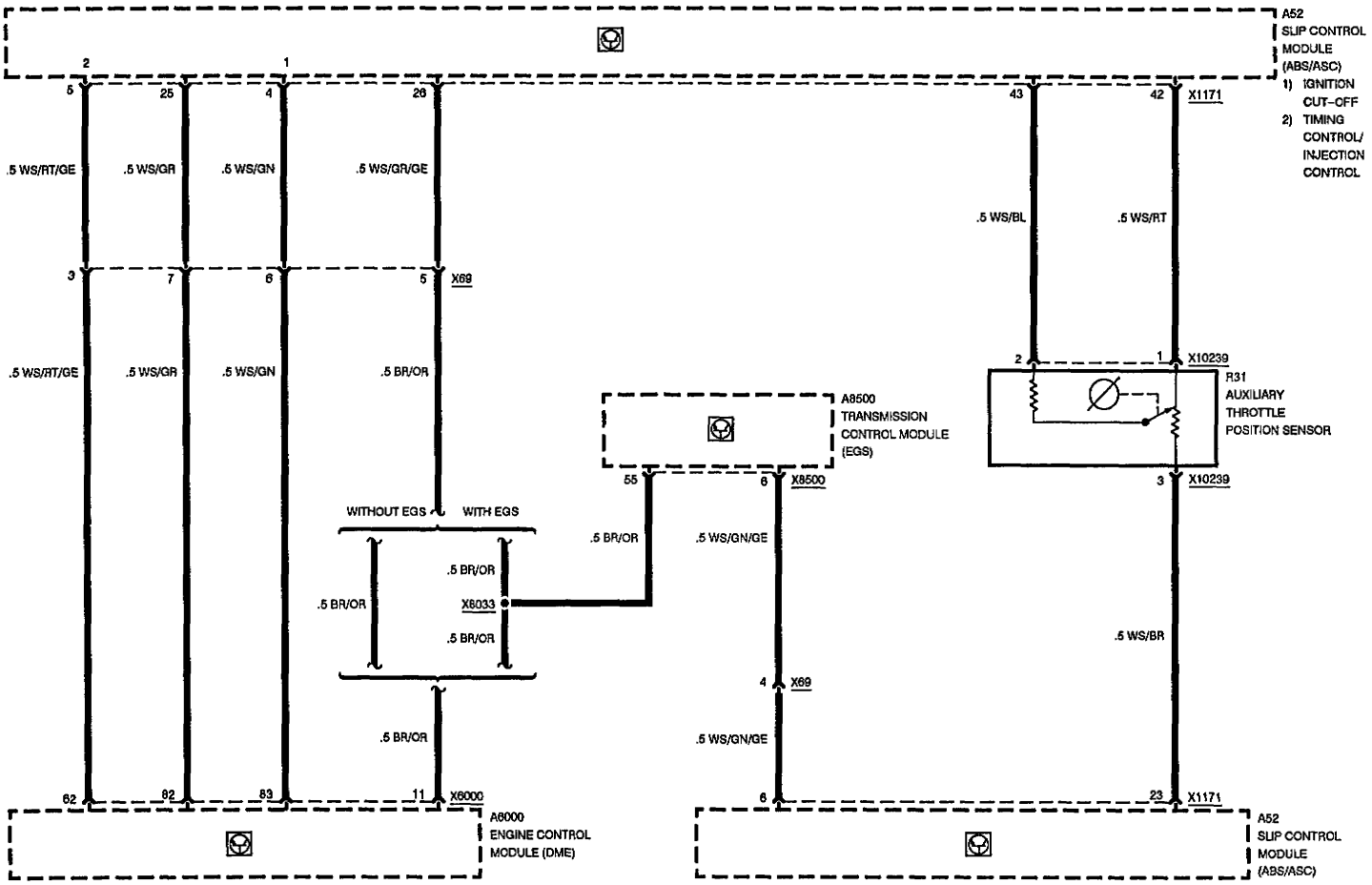
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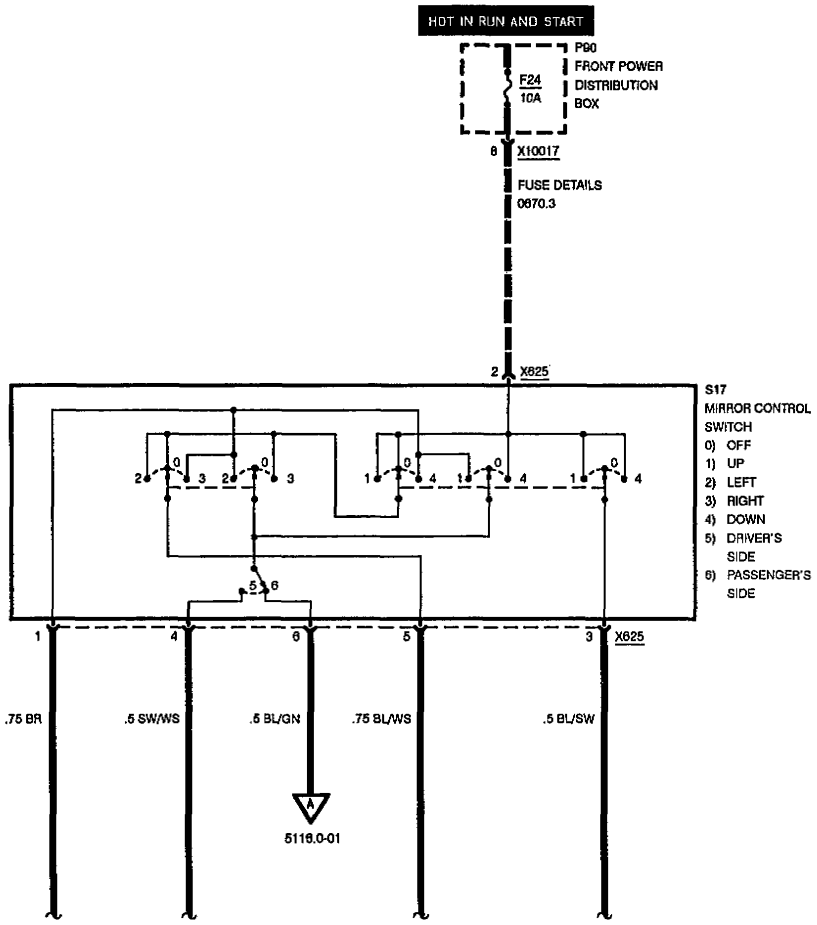
SLIP CONTROL (ABS/ASC+T)

325i

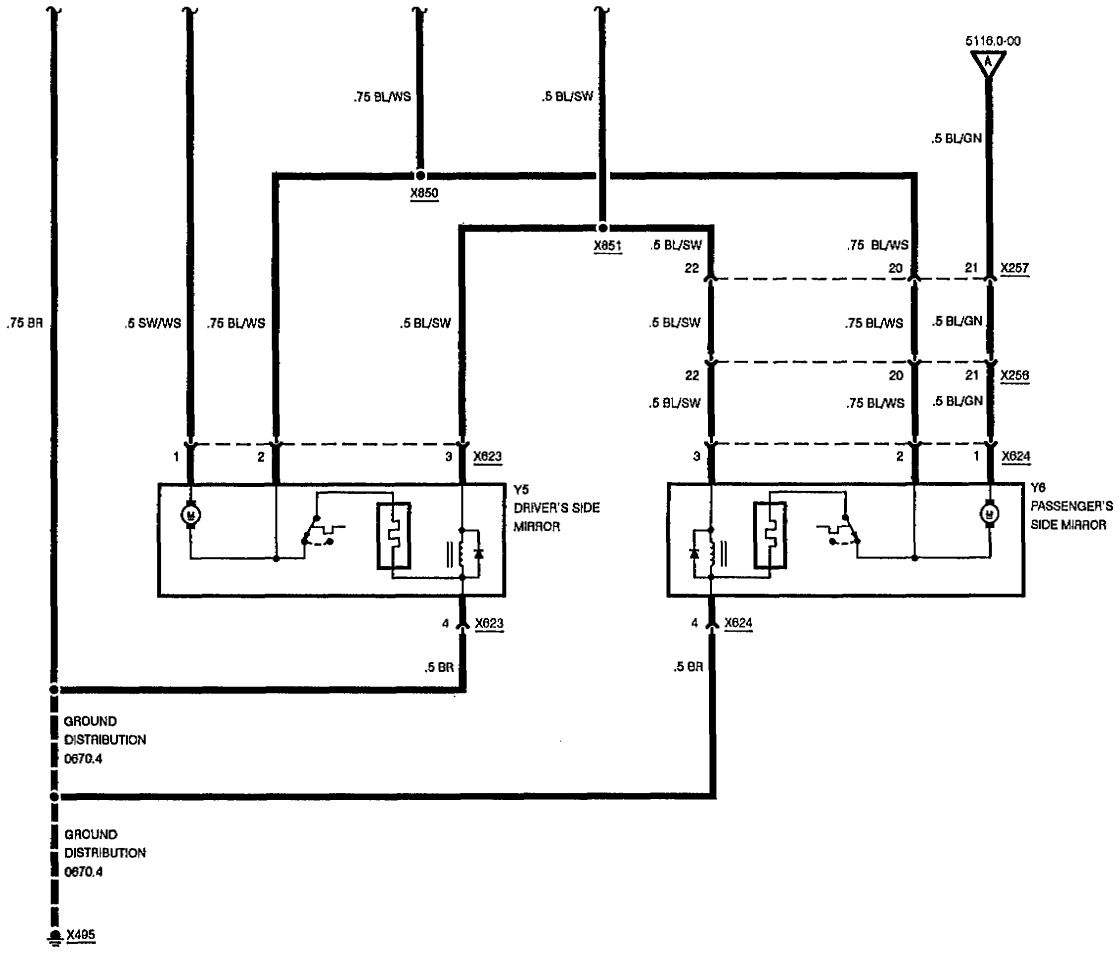


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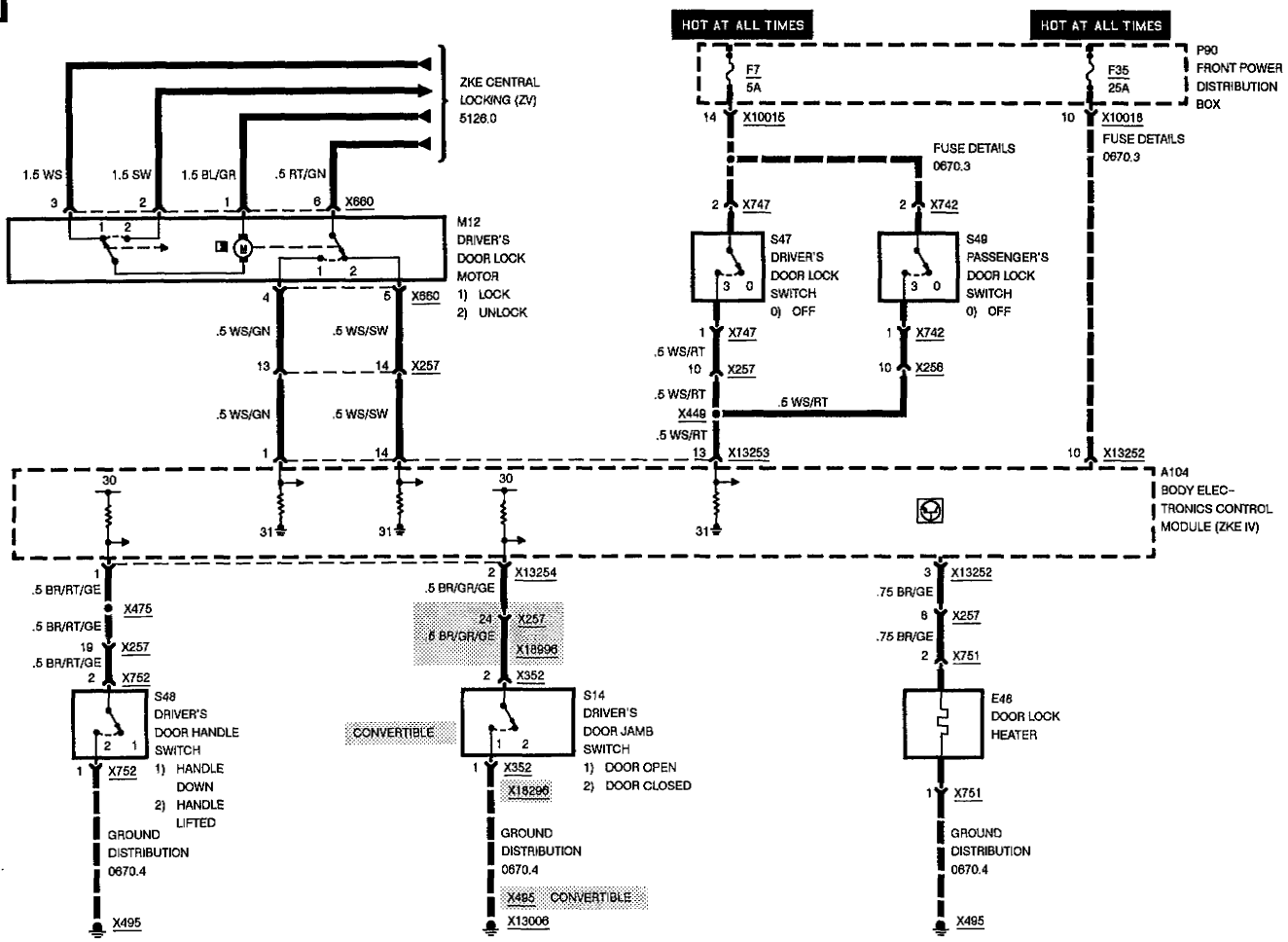


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ZKE DOOR LOCK HEATING (TSH)

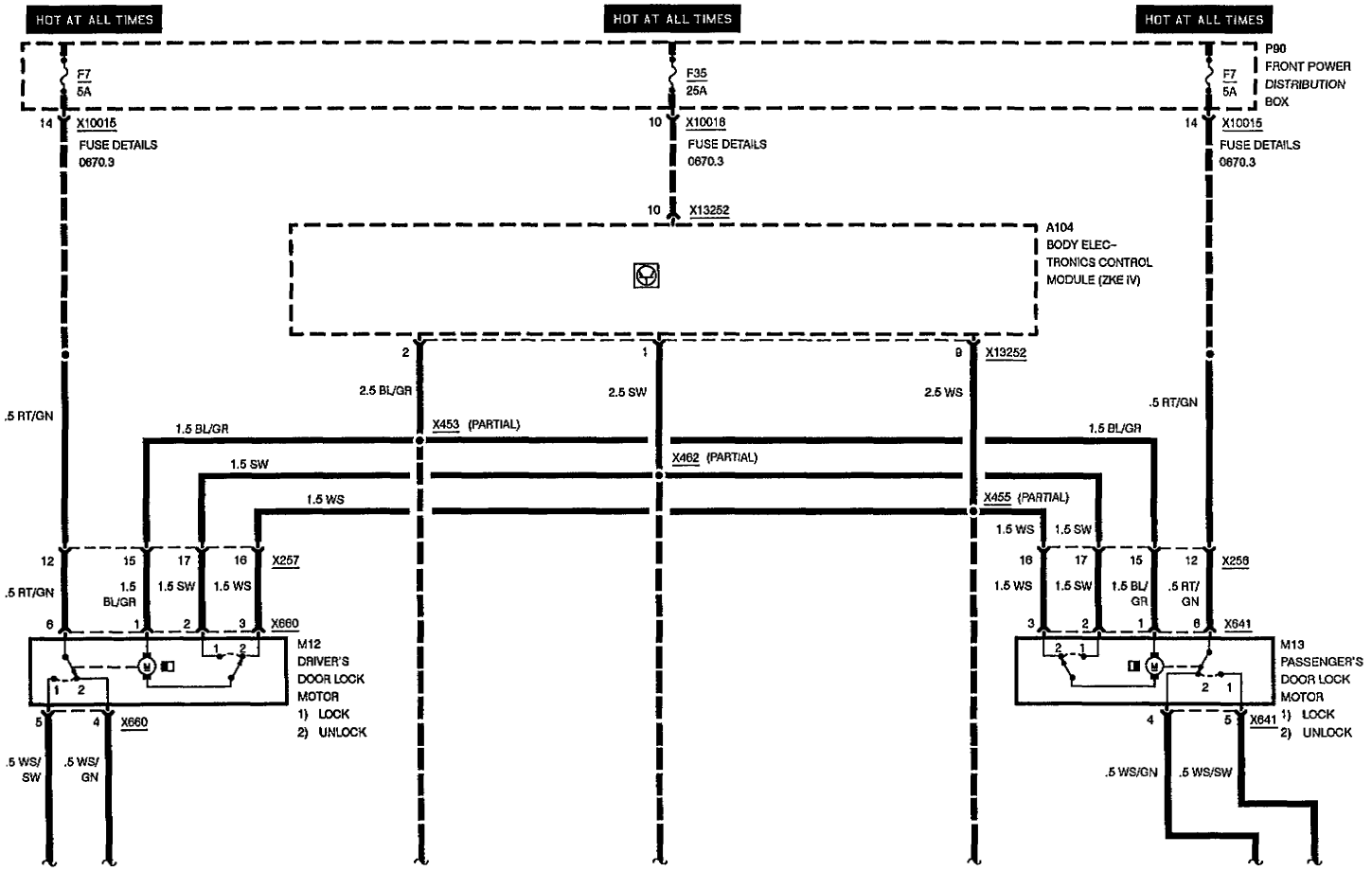


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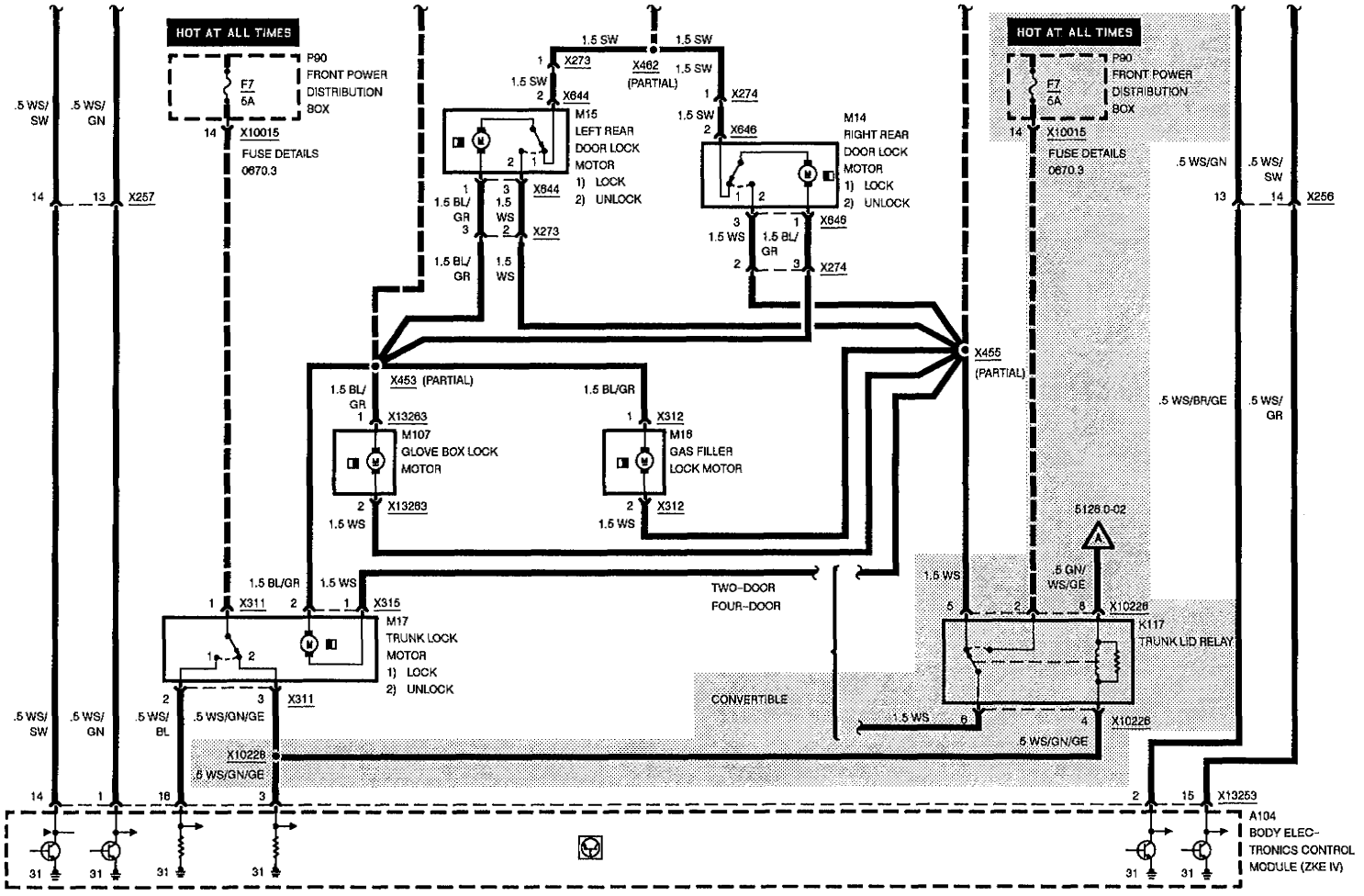
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ZKE CENTRAL LOCKING (ZV)

OUTPUT DETAILS



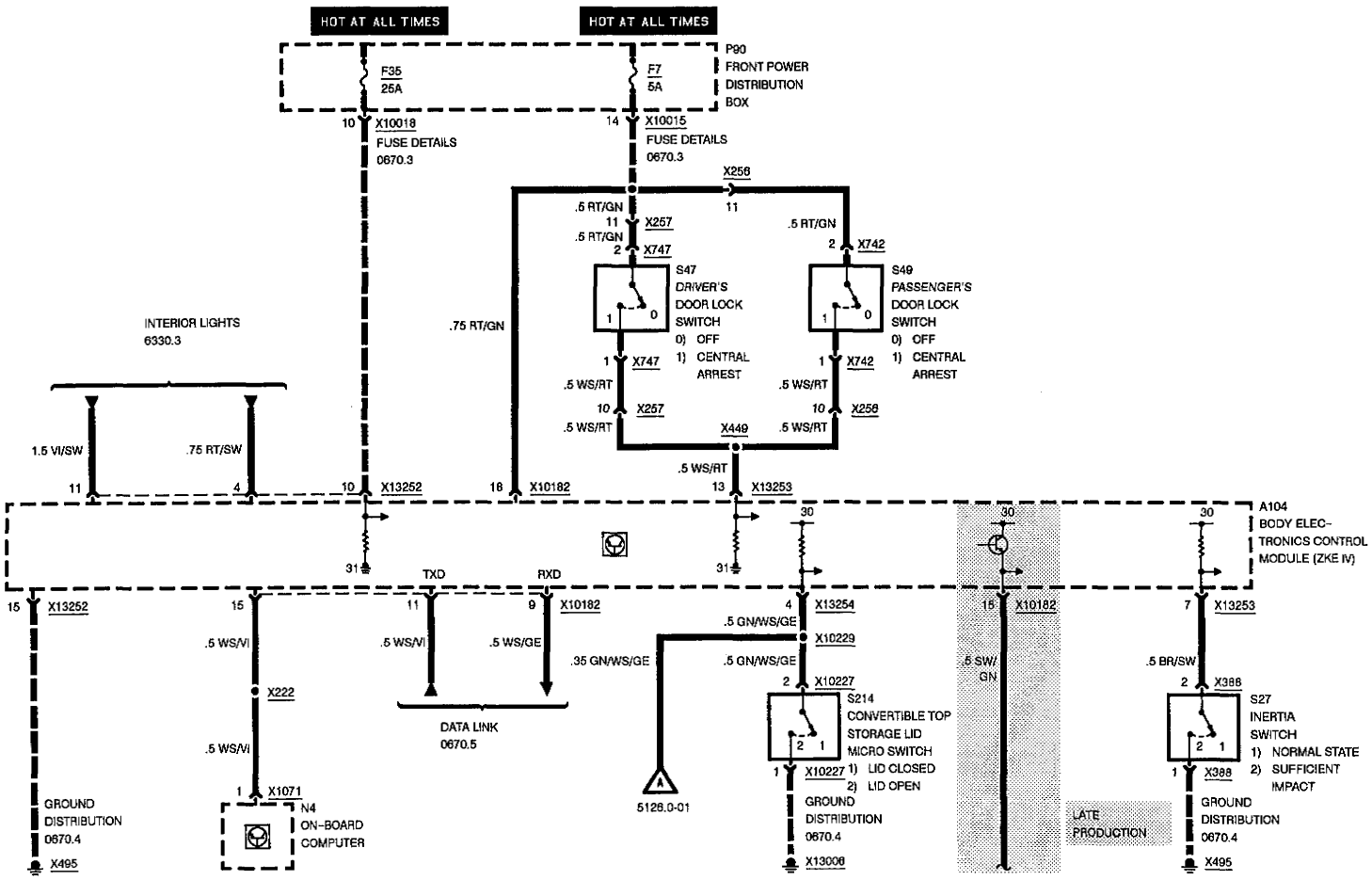
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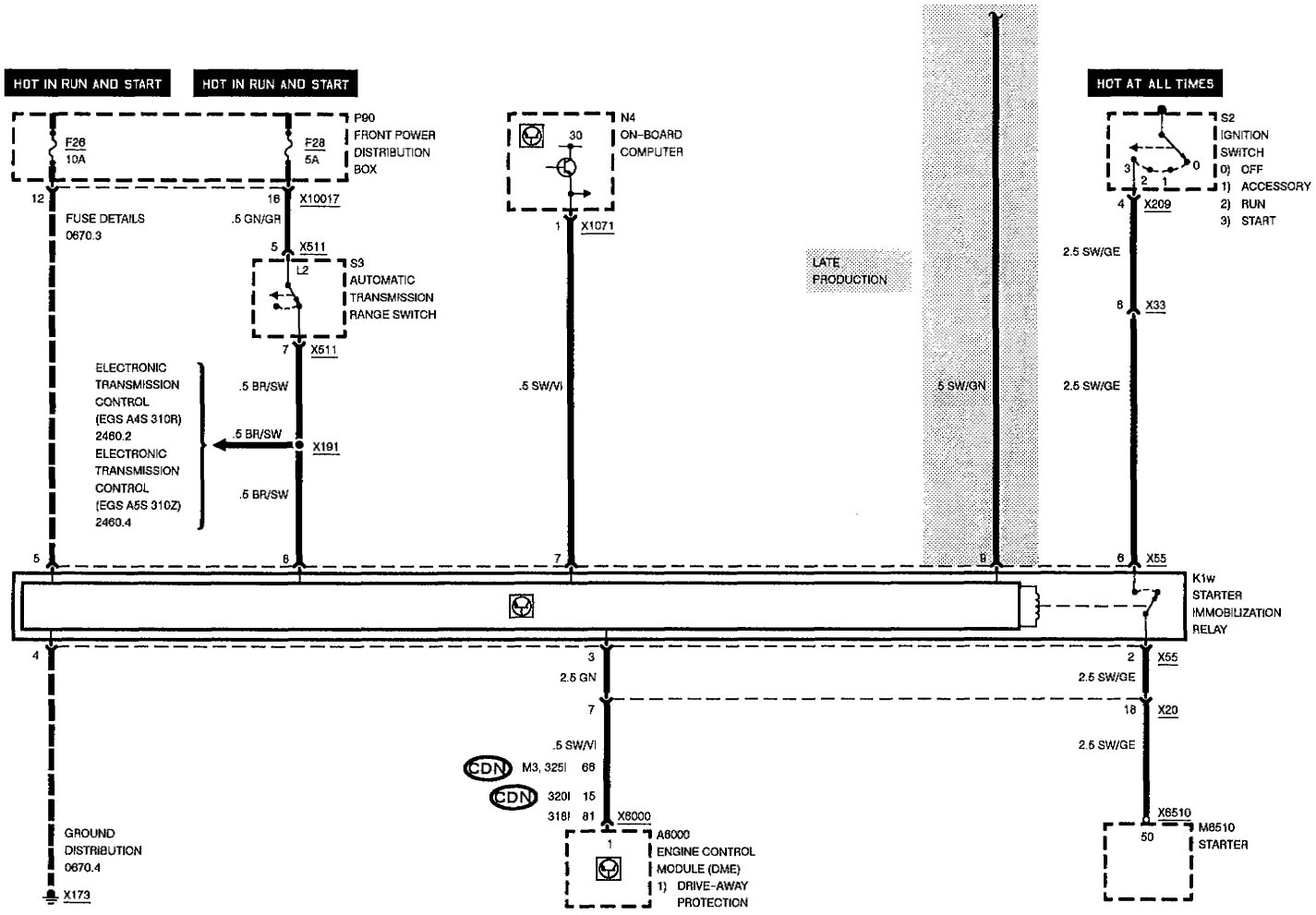
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ZKE CENTRAL LOCKING (ZV)

EARLY PRODUCTION



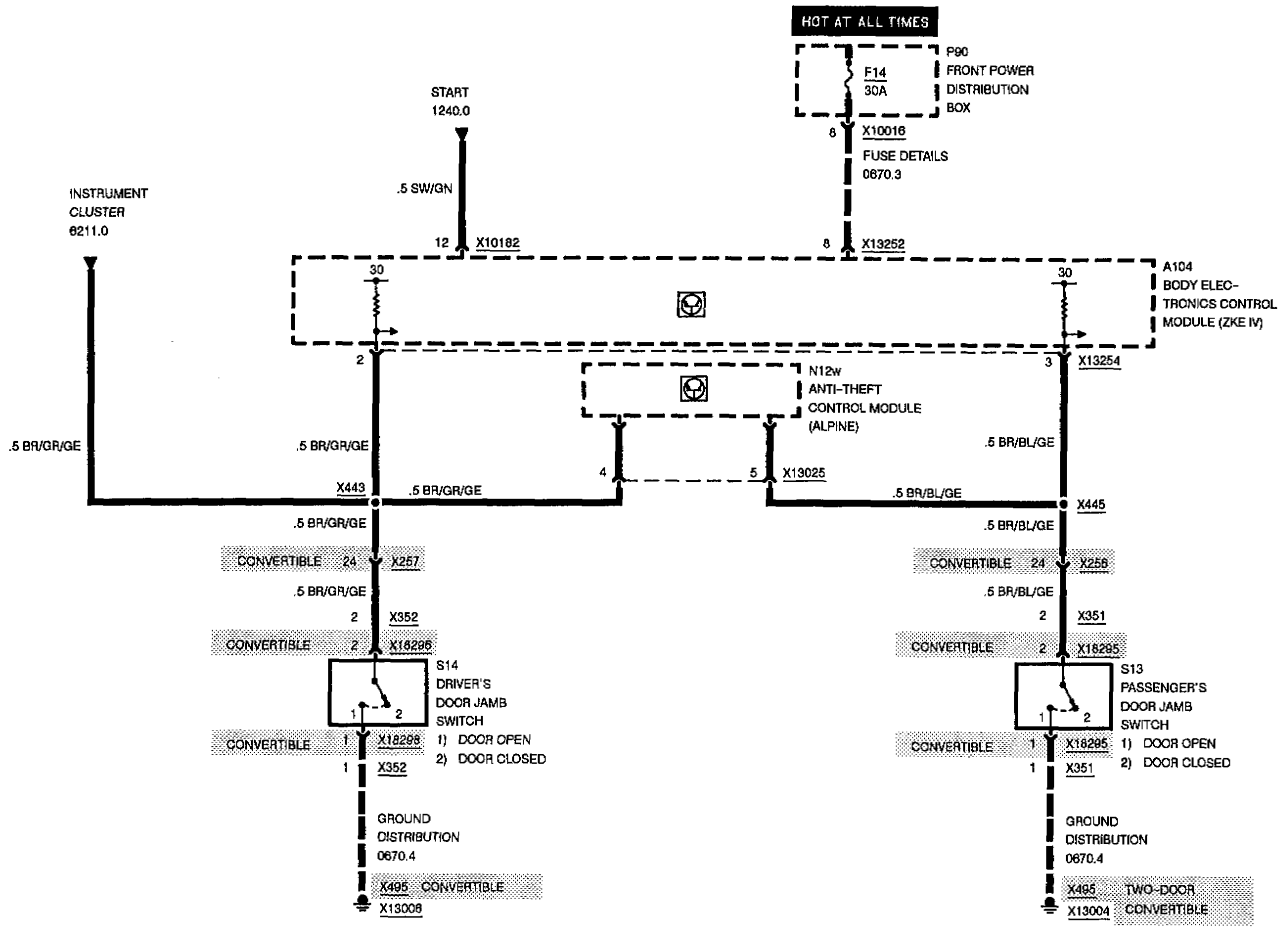
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POWER WINDOWS (FH)

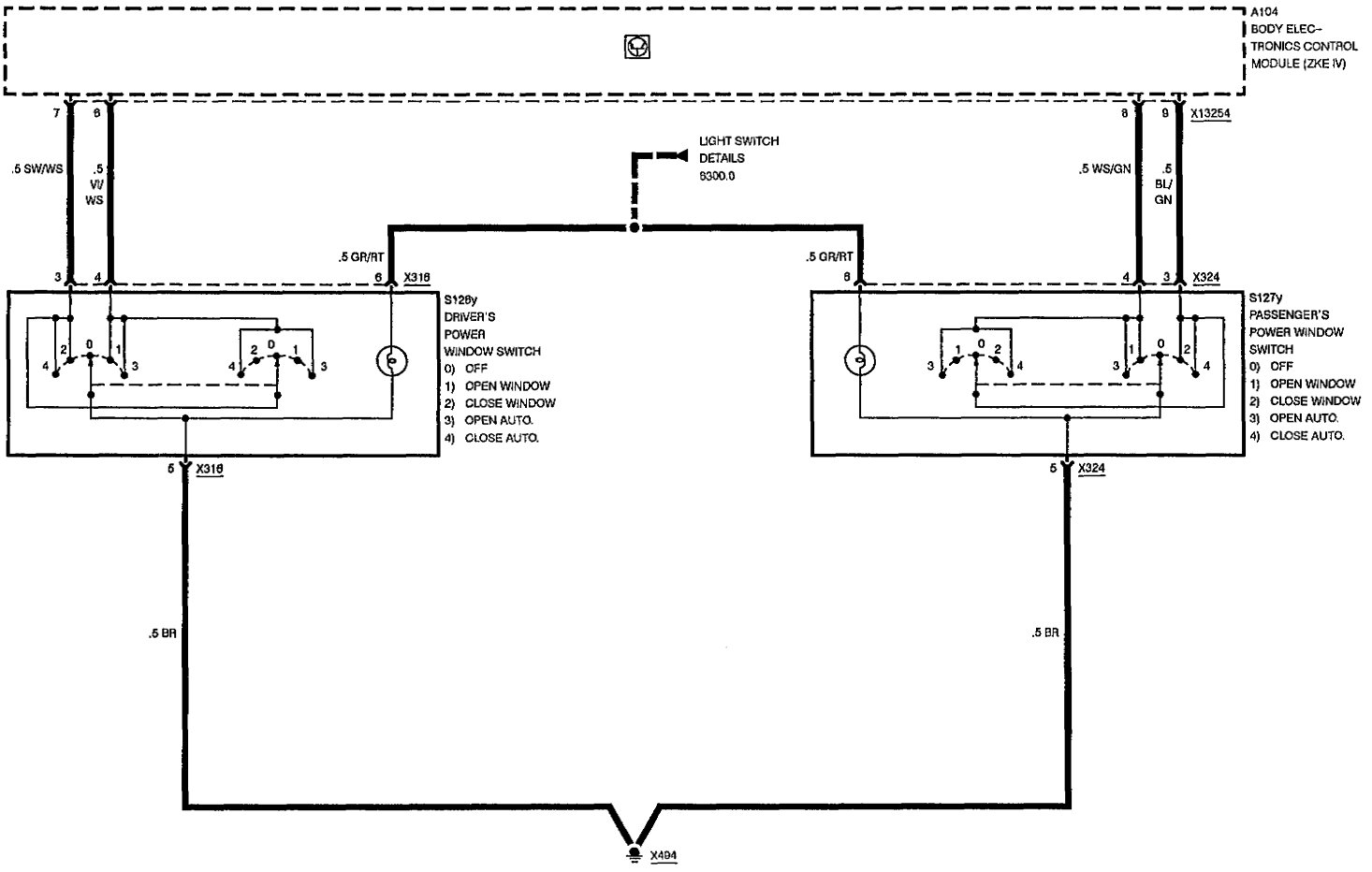
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POWER WINDOWS (FH)

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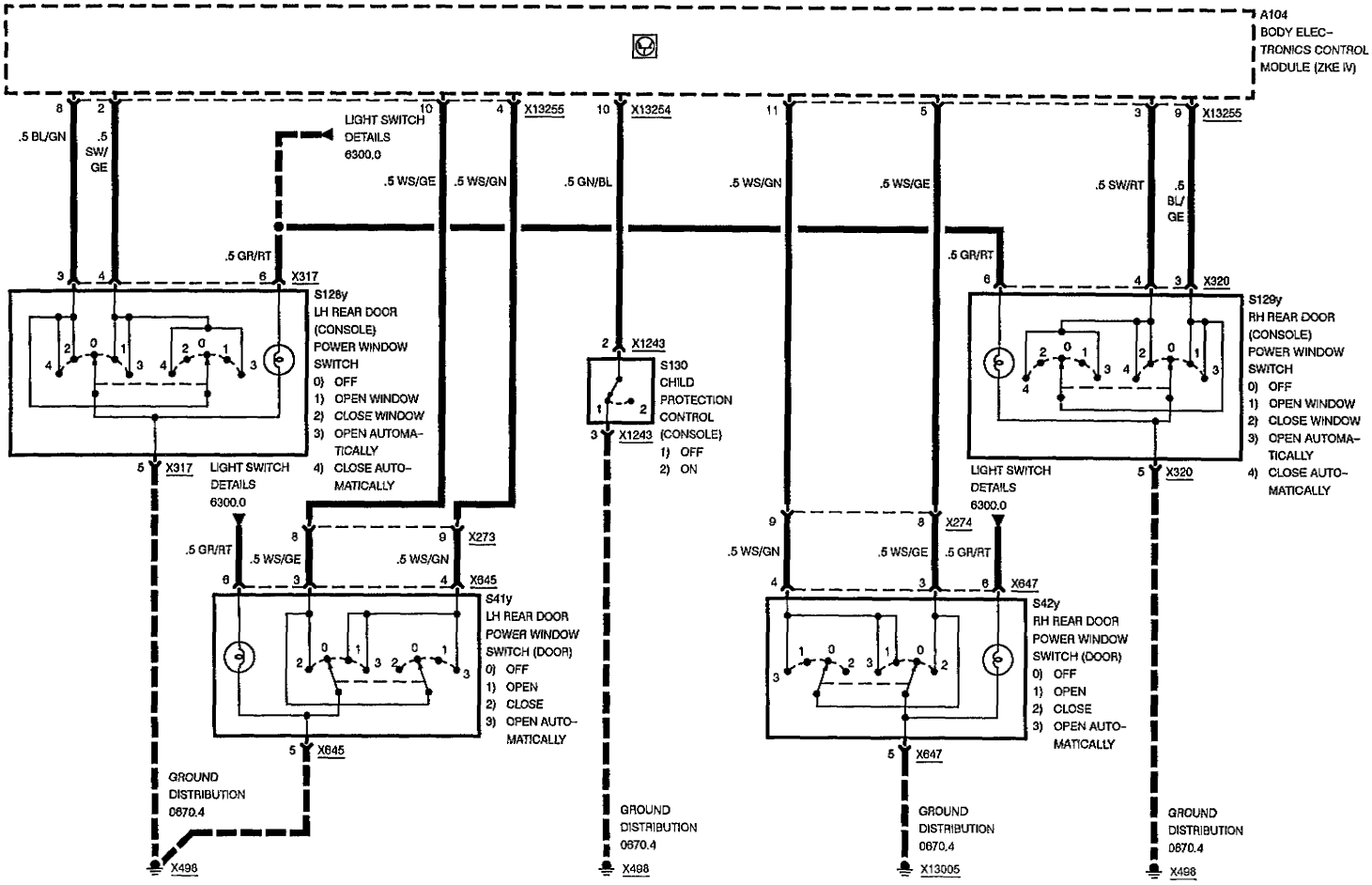


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POWER WINDOWS (FH)

INPUT DETAILS

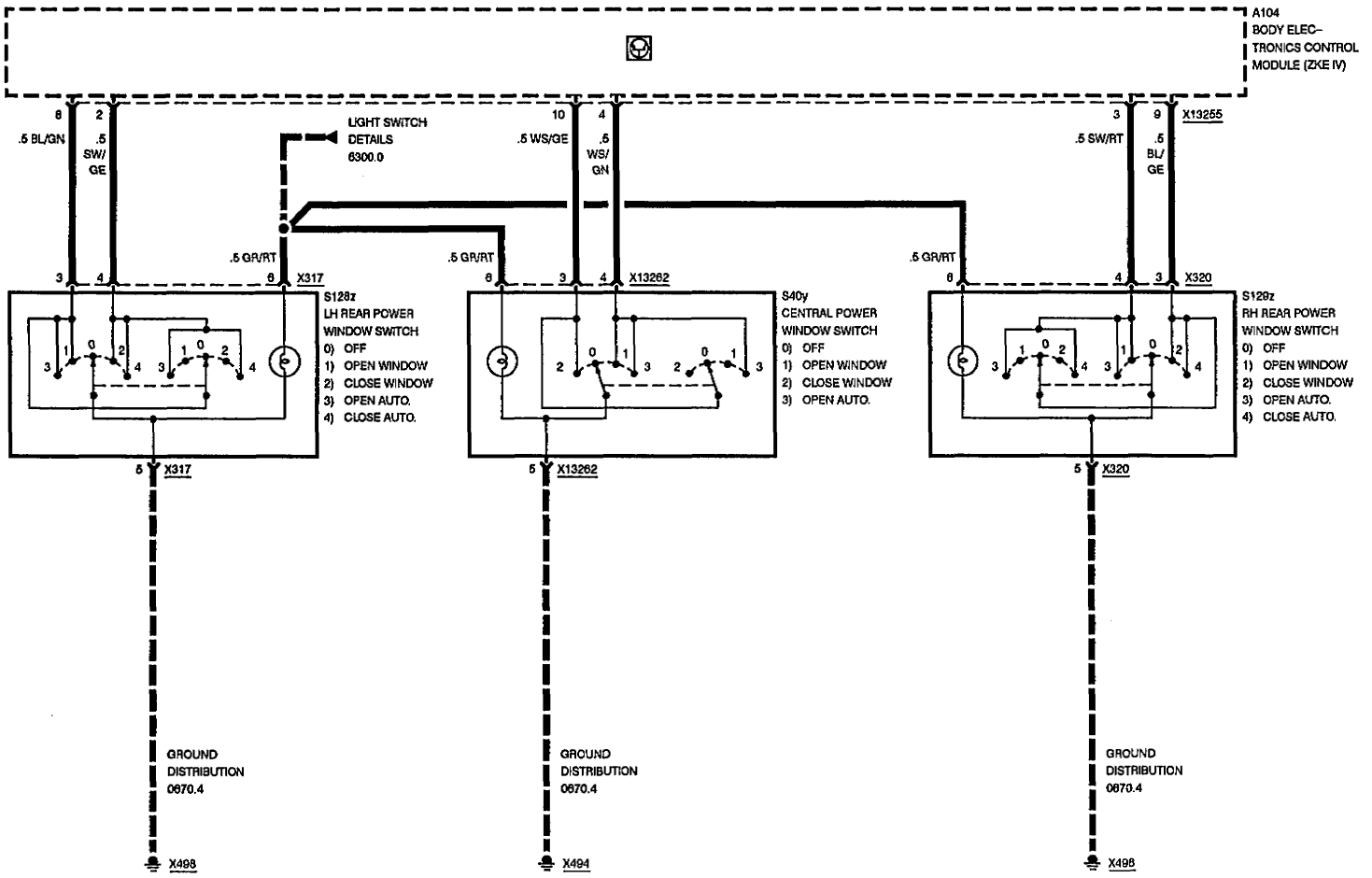
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POWER WINDOWS (FH) — CONVERTIBLE

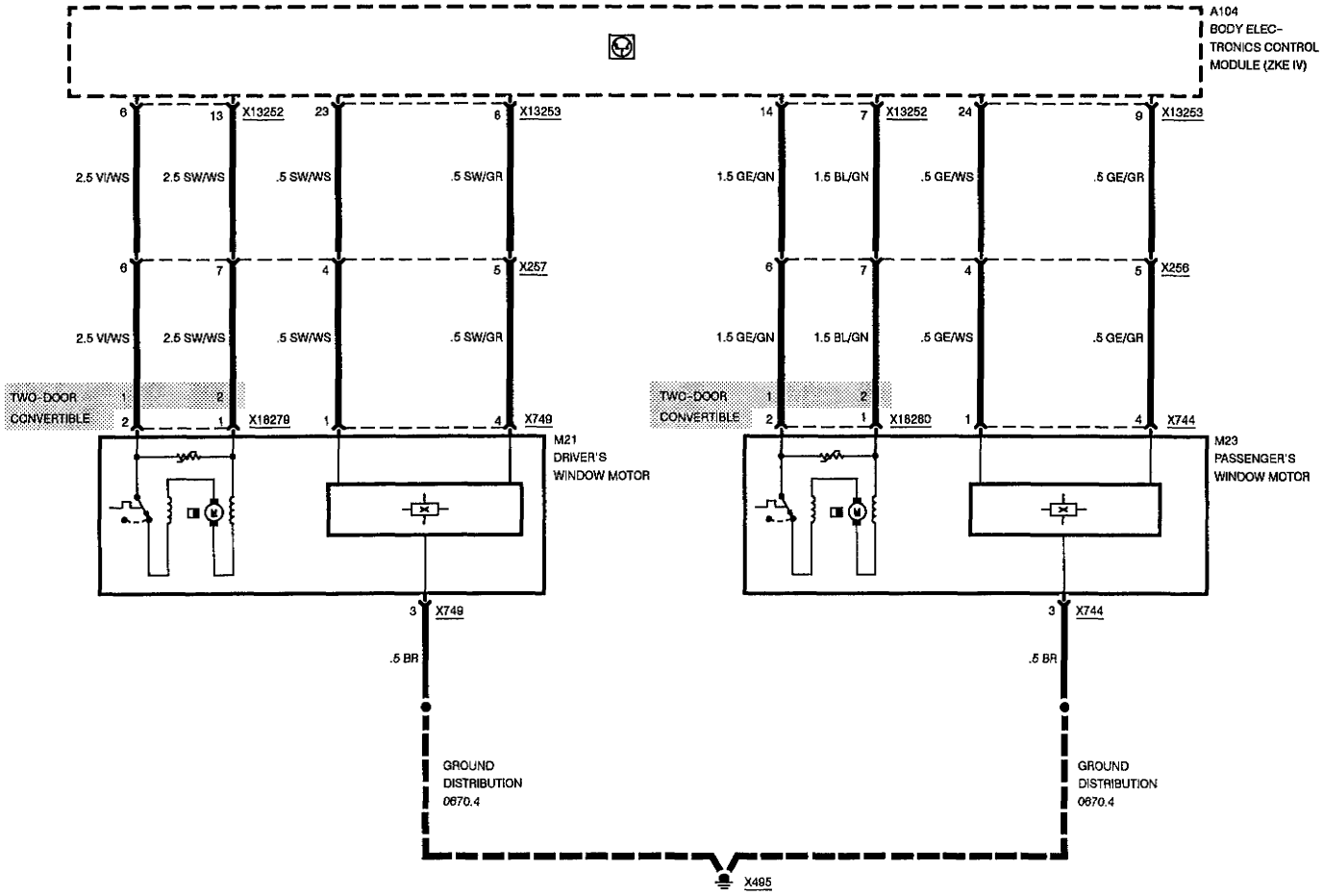
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POWER WINDOWS (FH)

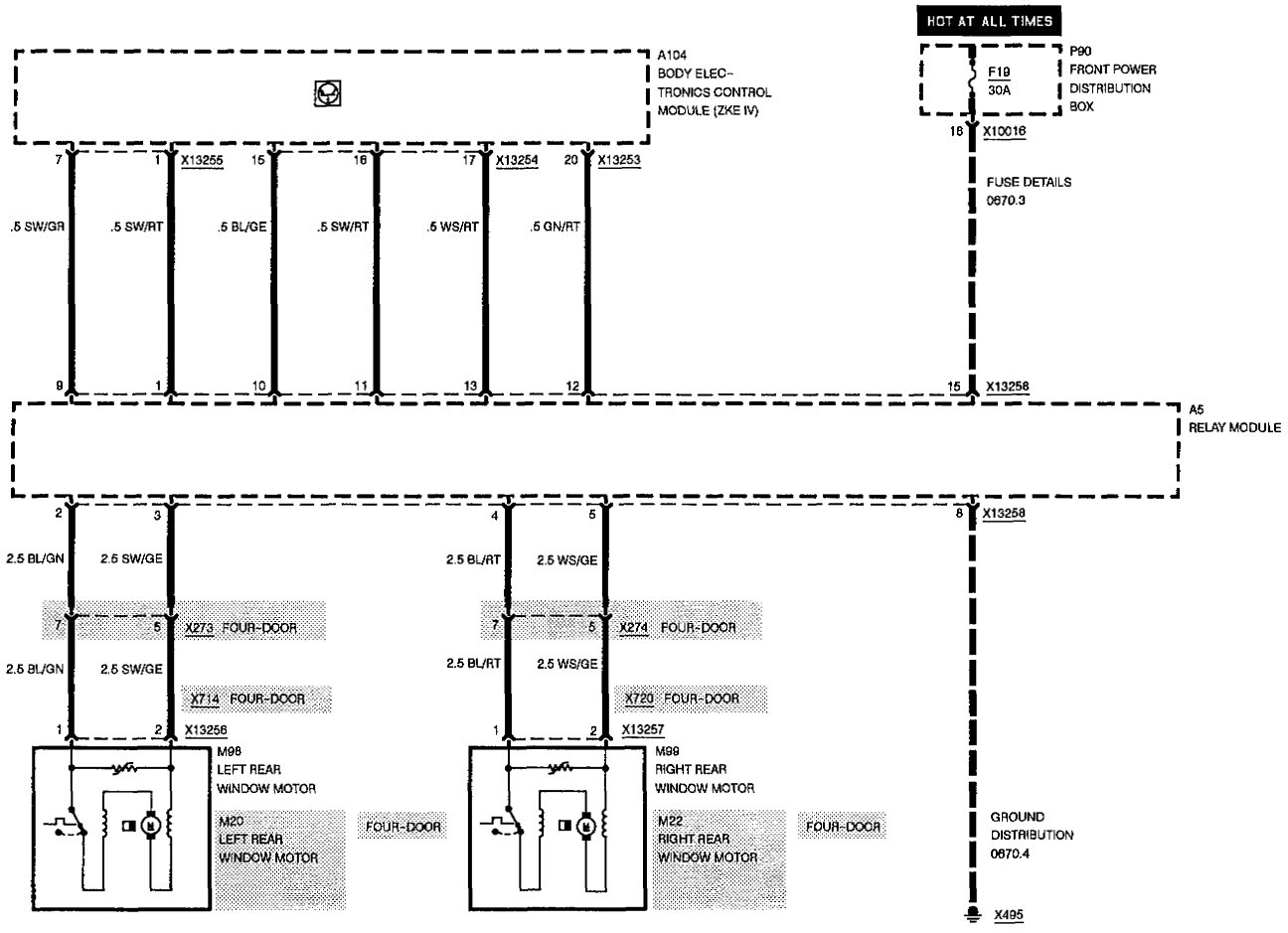
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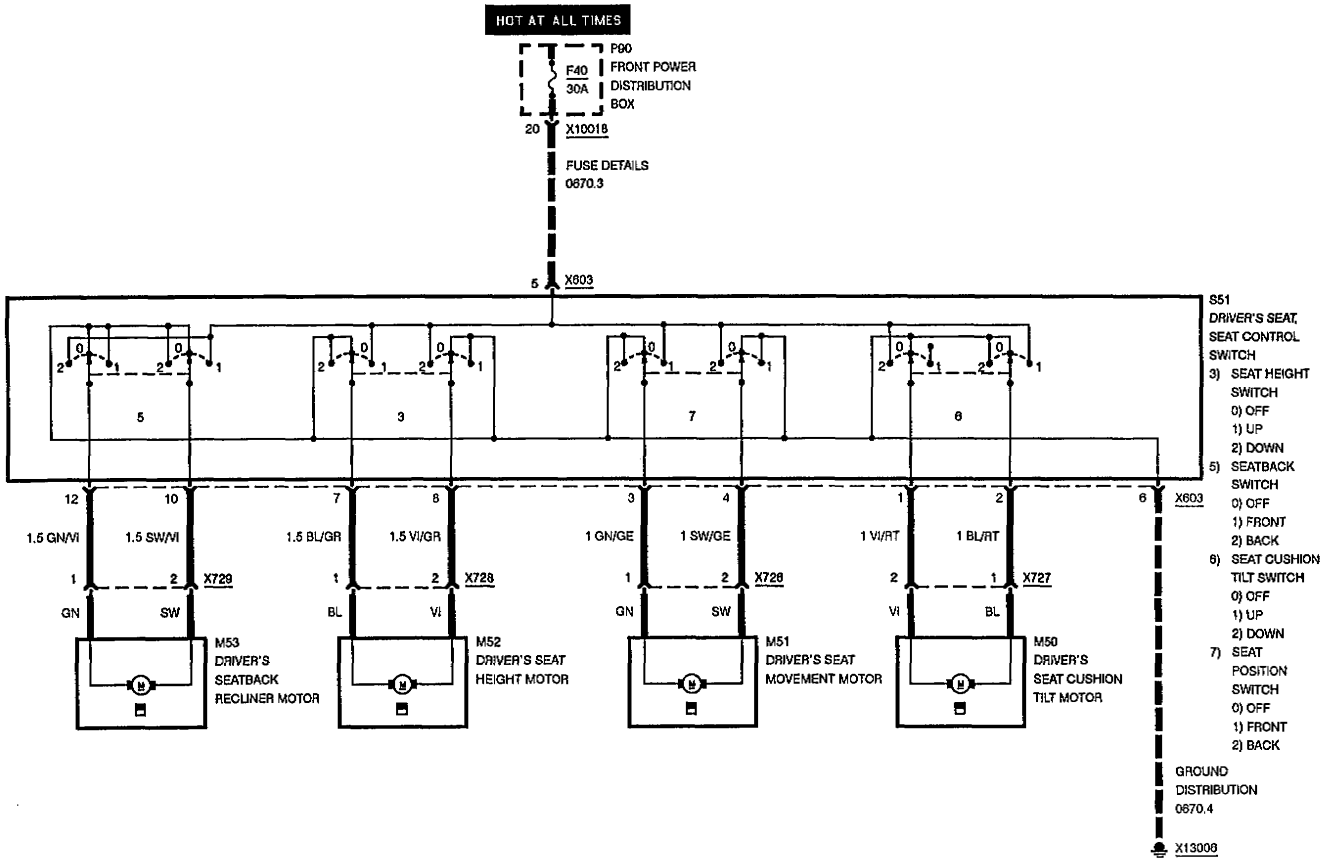
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POWER WINDOWS (FH)

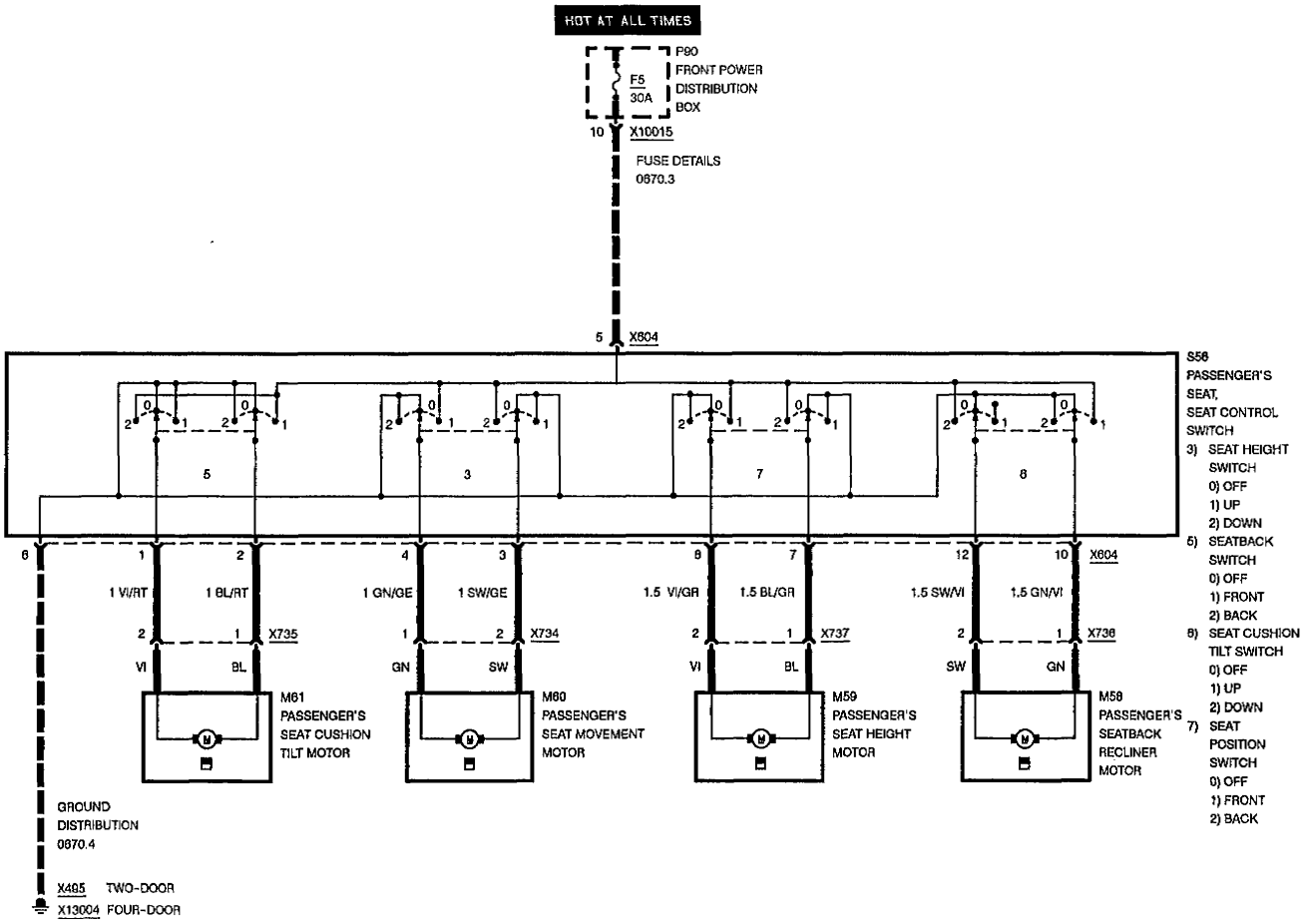
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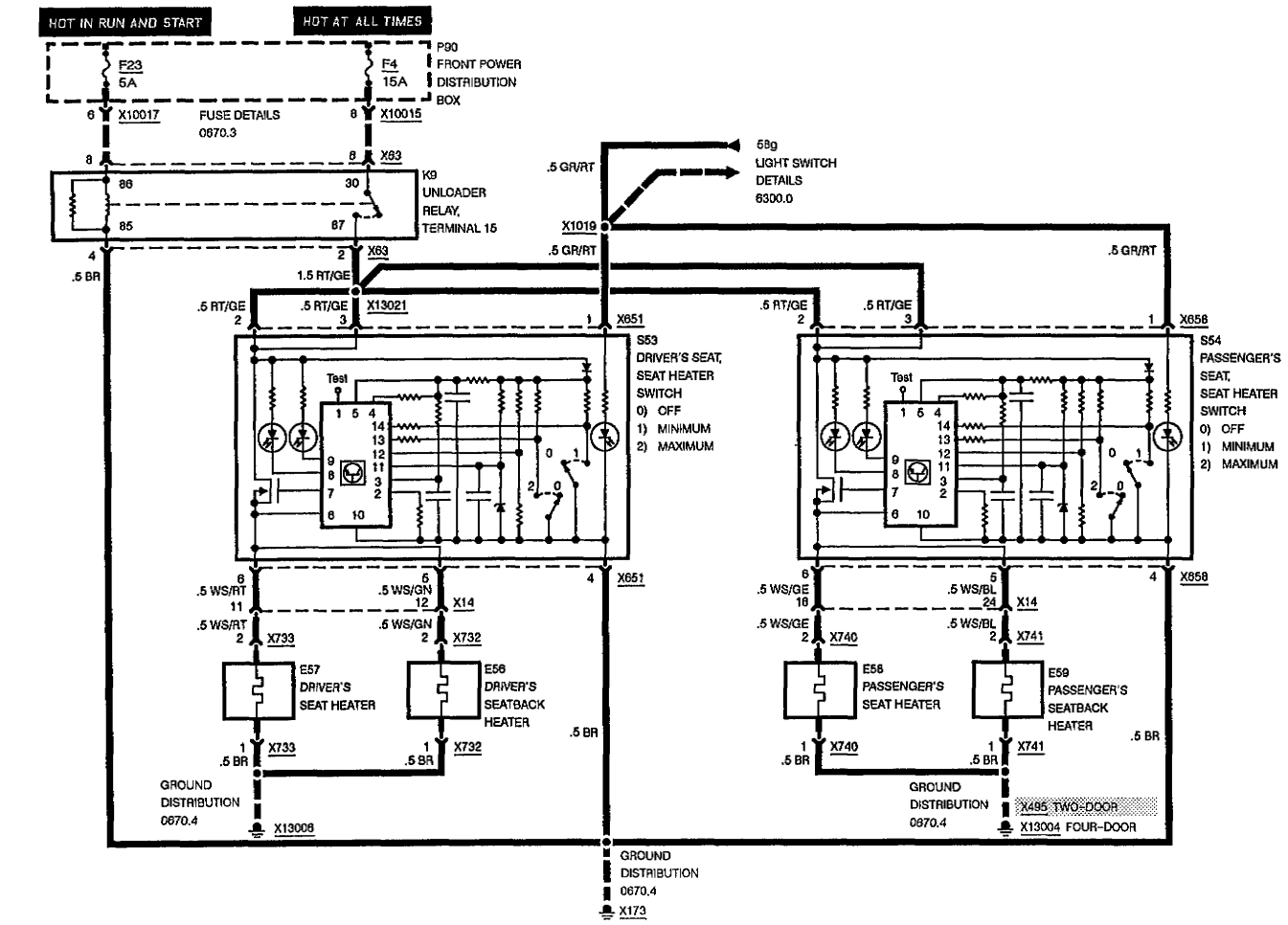


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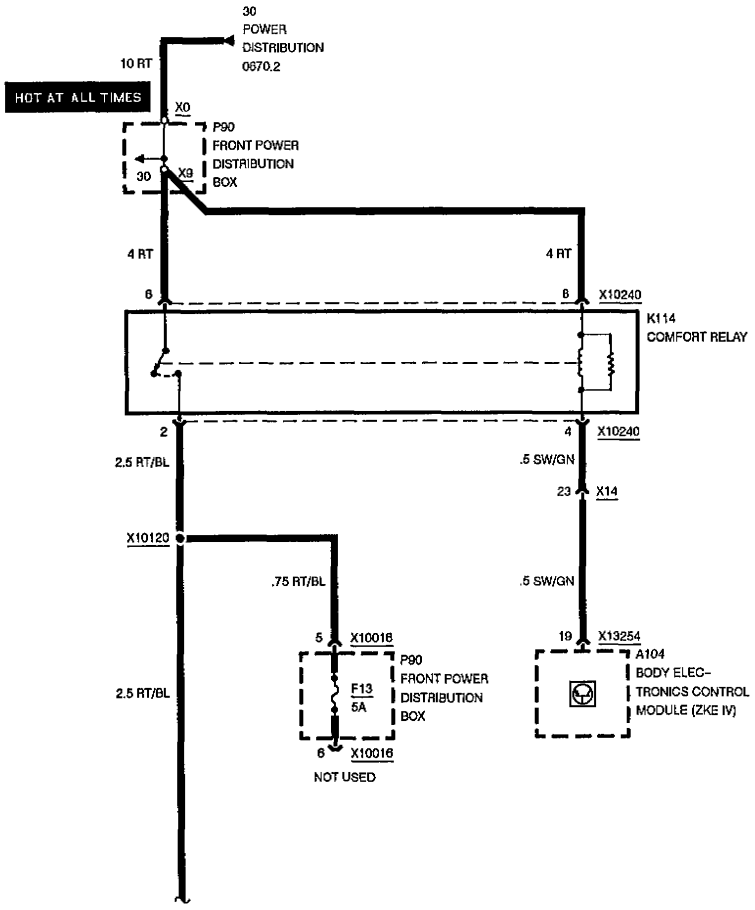
HEATED SEATS



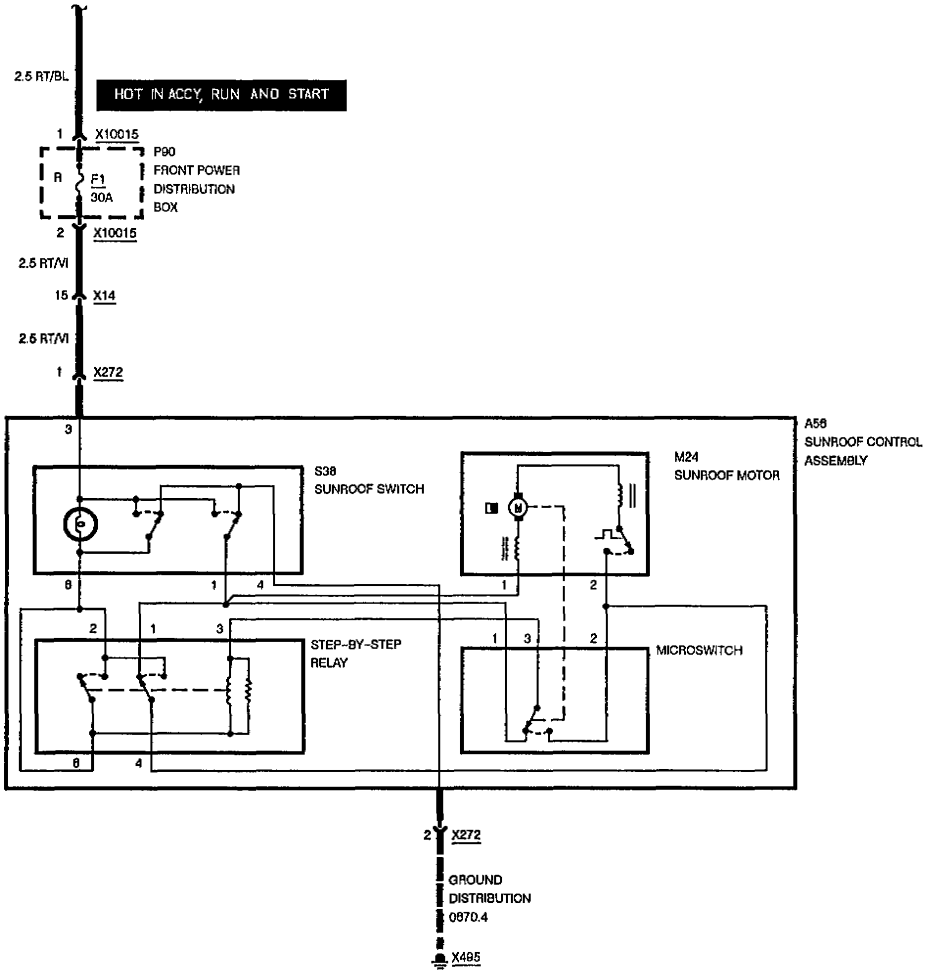
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POWER SUN ROOF (SHD)



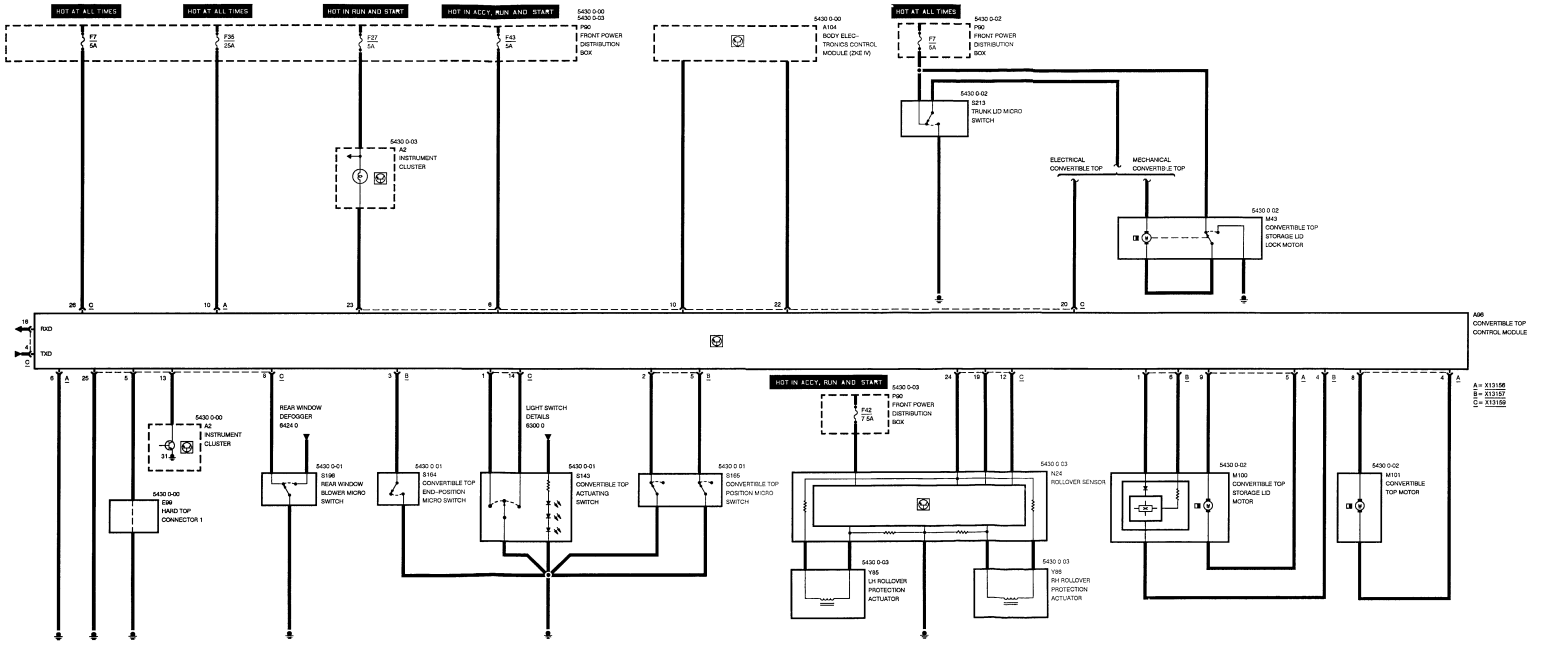
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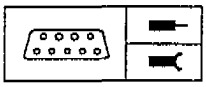
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Pin Assignments

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

X13156

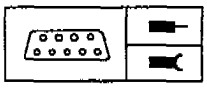
Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4	E/A	Control signal	Convertible top motor
5	E/A	Control signal	Convertible top storage lid motor
6	M	Ground	Ground
7		Not used	
8	E/A	Control signal	Convertible top motor
9	E/A	Control signal	Convertible top storage lid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

X13157

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

E = Input, A = Output, M = Ground

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Pin Assignments

X13159

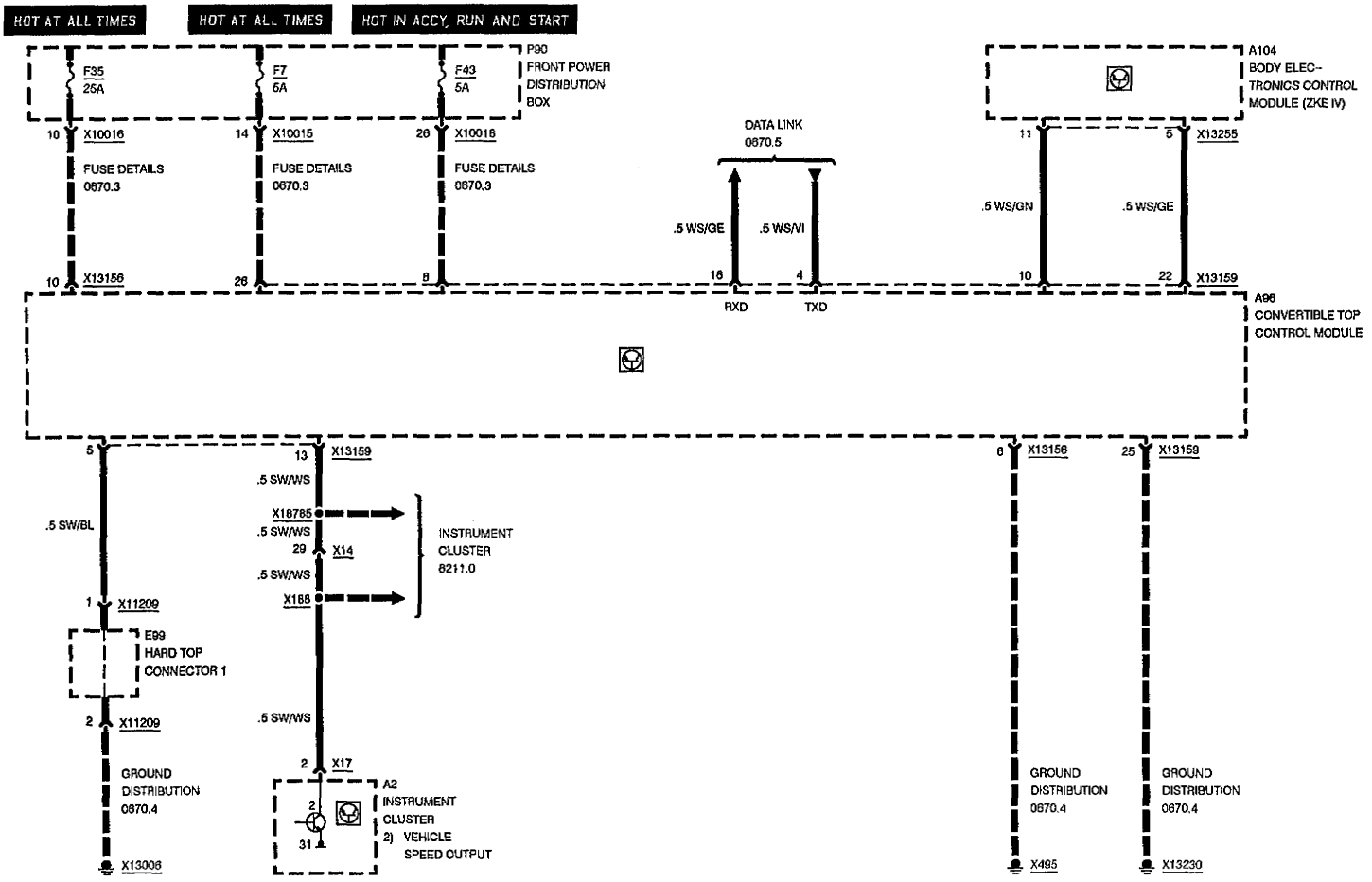
Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box
7		Not used	
8	E	Rear window blower signal	Rear window blower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

E = Input, A = Output, M = Ground

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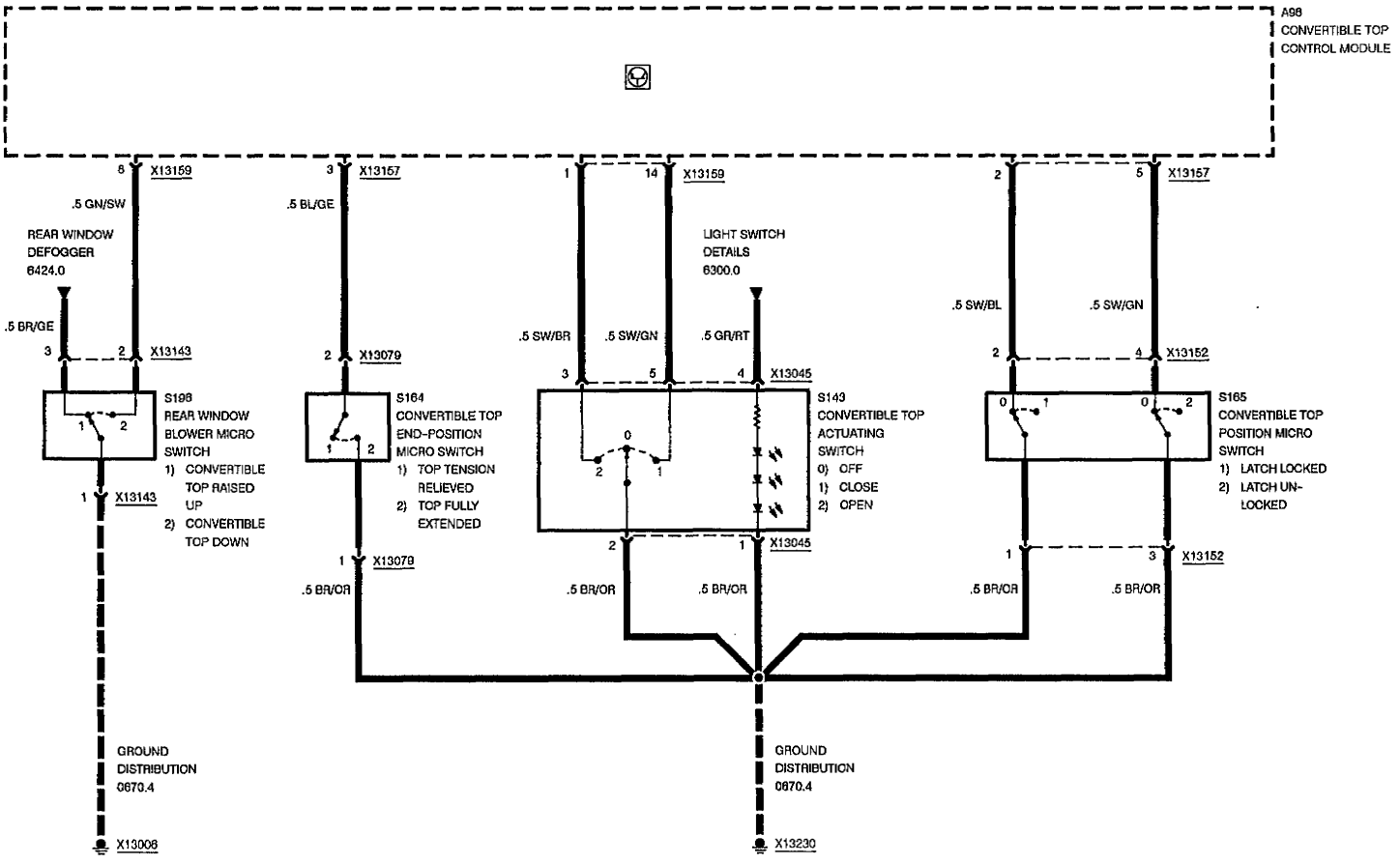
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ELECTRO- MECHANICAL CONVERTIBLE TOP



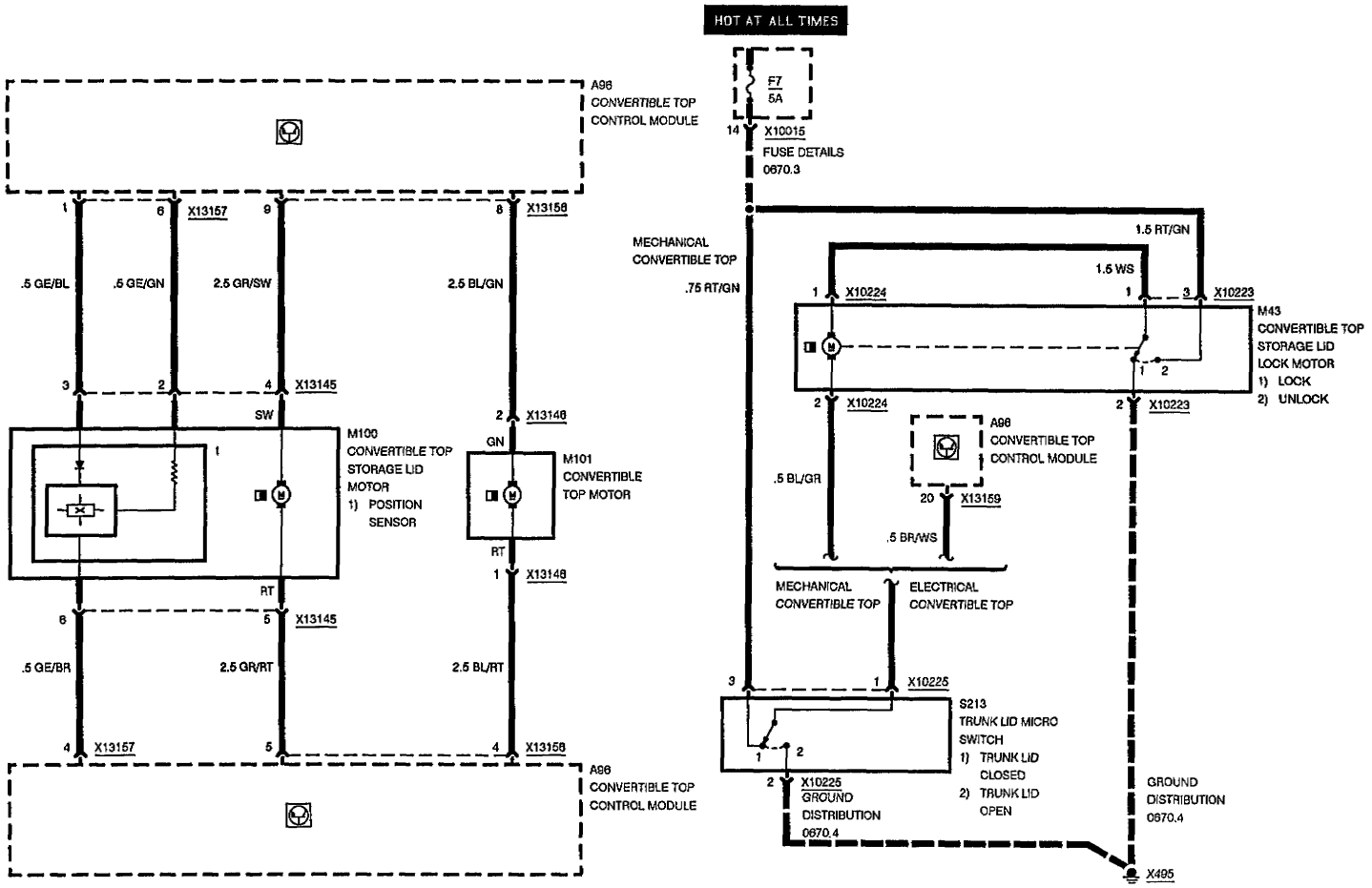
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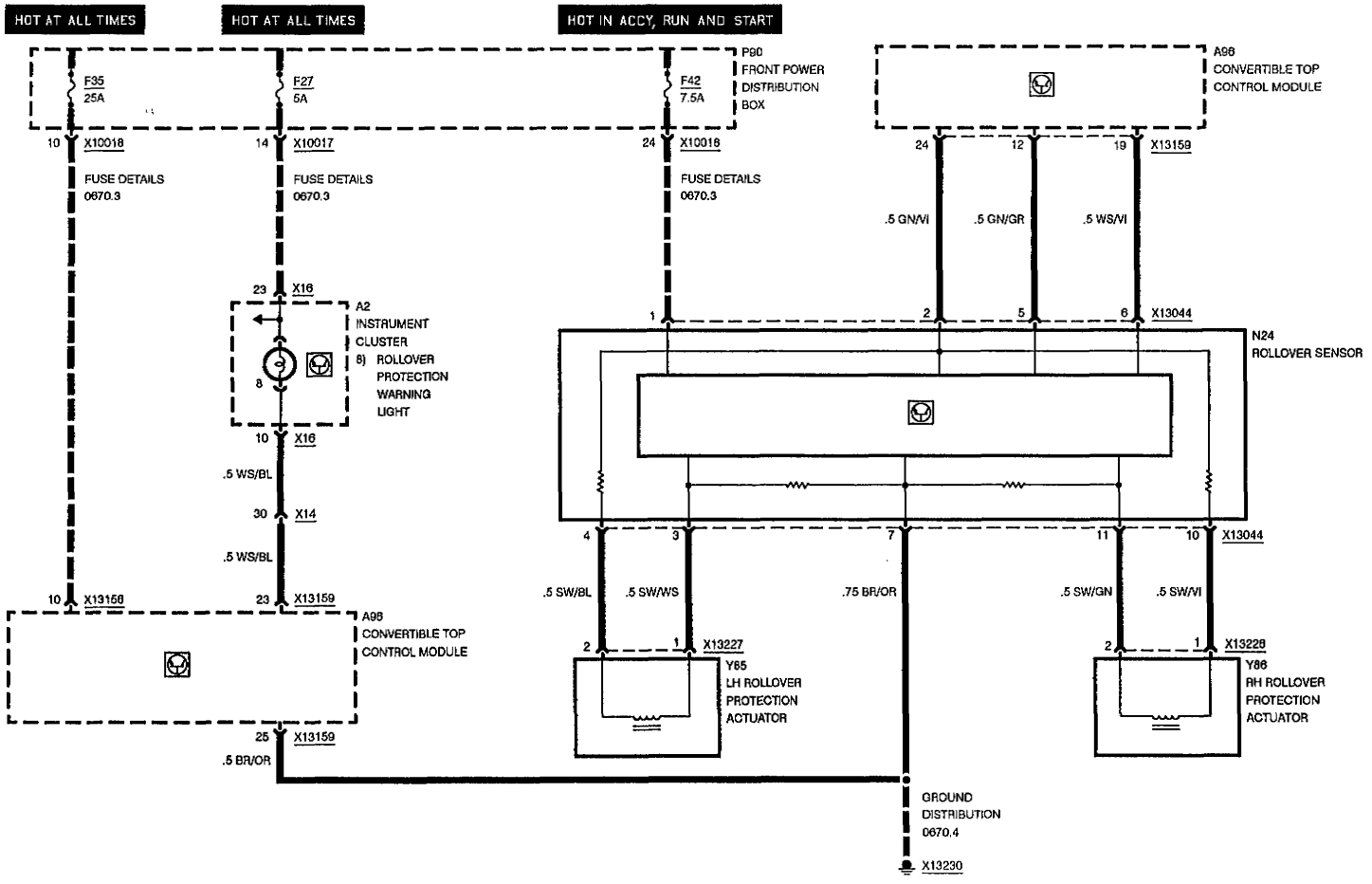
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ELECTRO- MECHANICAL CONVERTIBLE TOP



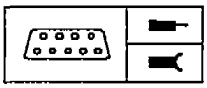
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ELECTRO- MECHANICAL CONVERTIBLE TOP



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Pin Assignments

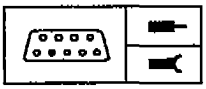
Pin	Type	Description/Function	Connection
11	E	Convertible: DATA-signal Four-door: OPEN-signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used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

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Pin Assignments

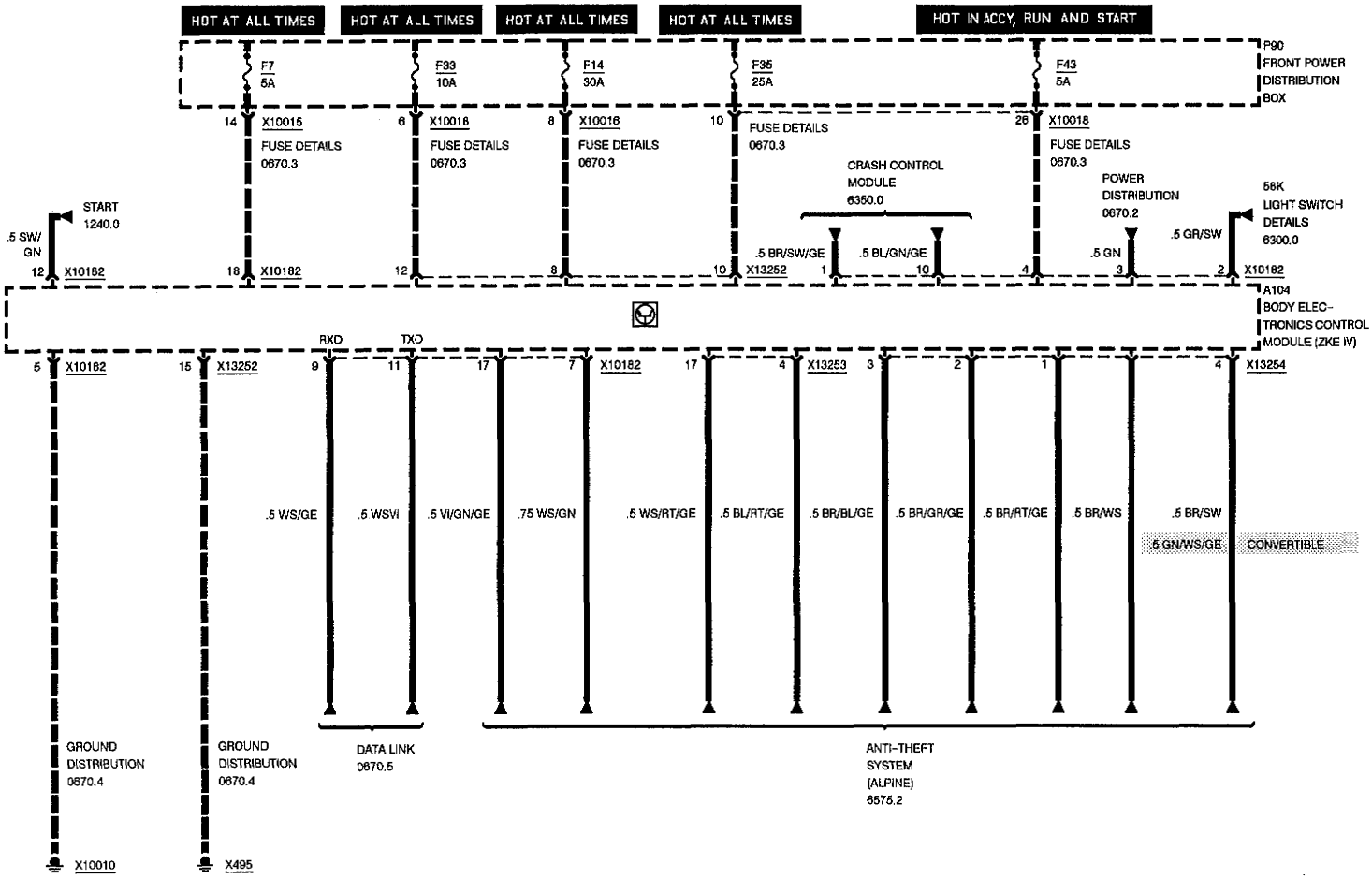
Pin	Type	Description/Function	Connection
12	E	DATA-signal	Central body electronic module
13	E/A	DATA-signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

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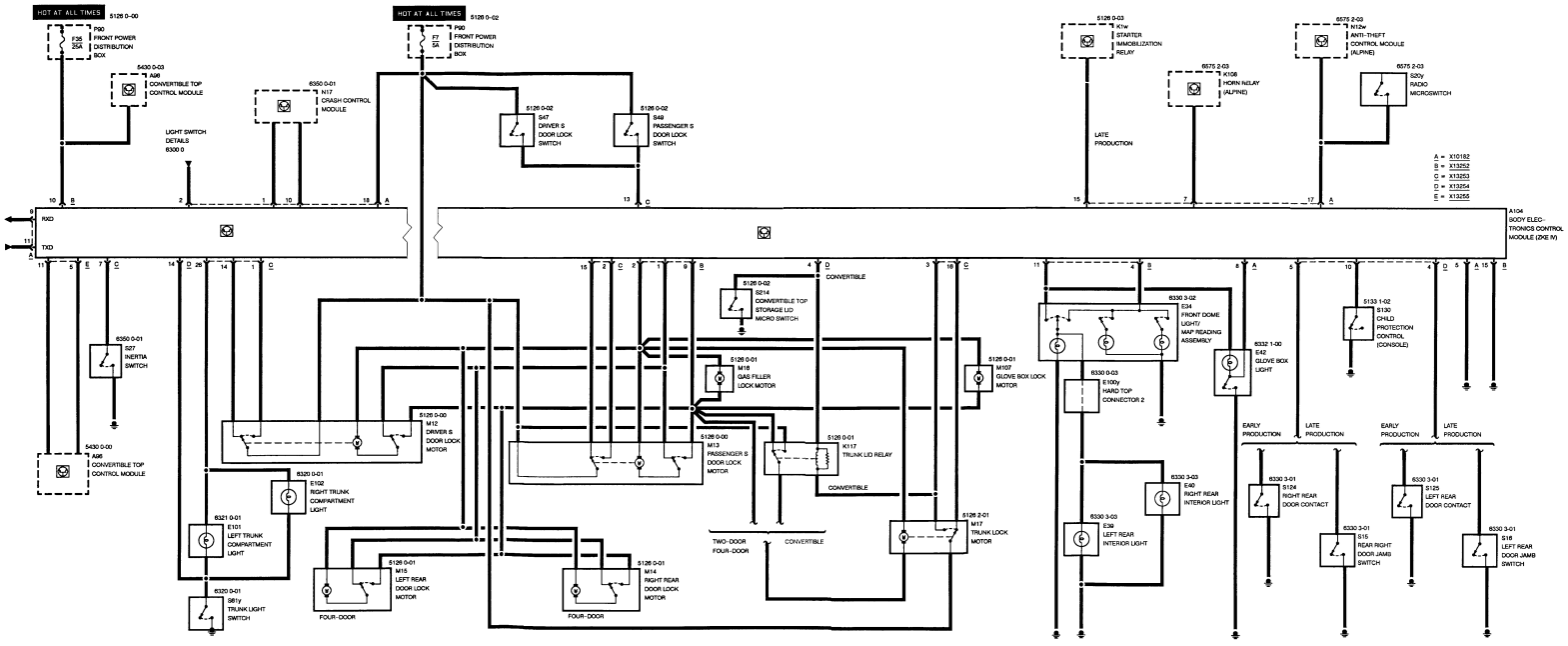
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CENTRAL BODY ELECTRONICS (ZKE IV)



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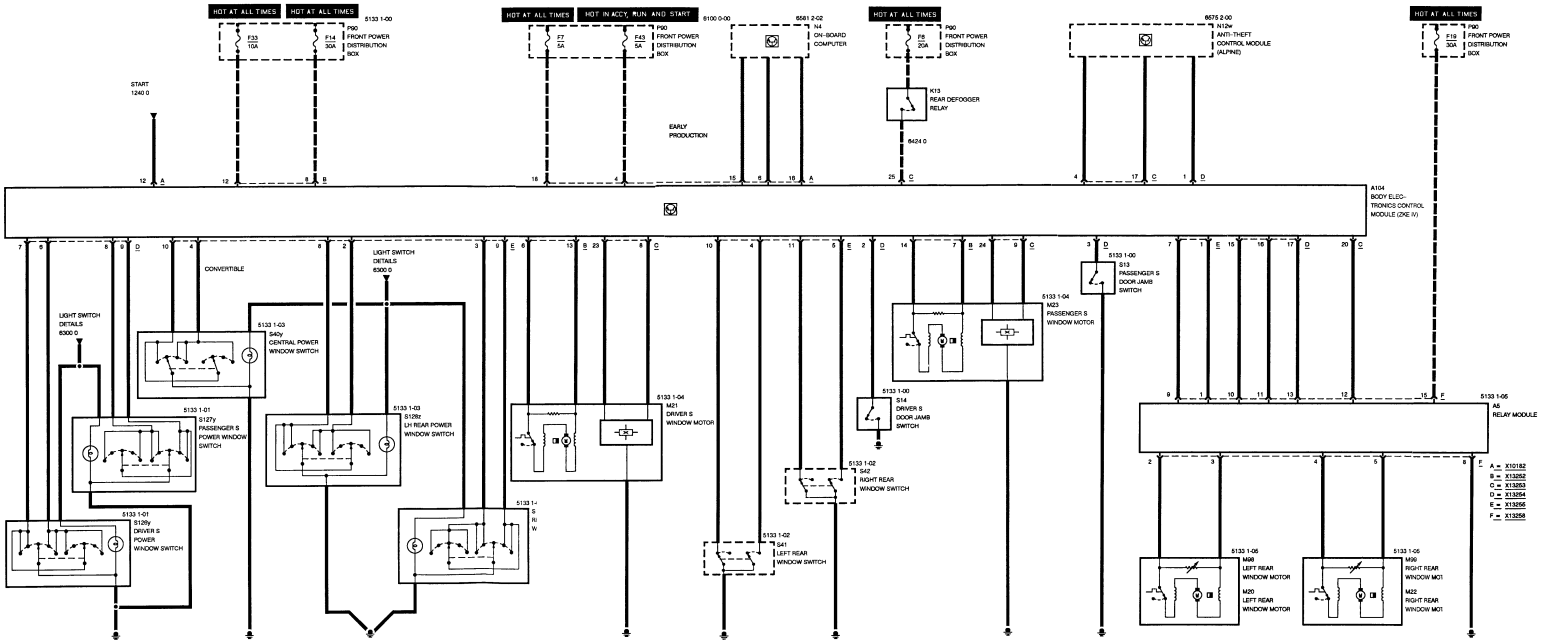
12/94 6100.0a 1994
12/94 6100 0a 1994



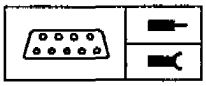
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Pin Assignments

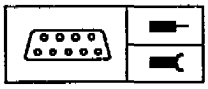
A = X10182	18 Pins, black
B = X13252	15 Pins, yellow
C = X13253	26 Pins, yellow
D = X13254	26 Pins, green
E = X13255	26 Pins, natural
F = X13258	15 Pins, white

X10182

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

E = Input, A = Output, M = Ground

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Pin Assignments

X13252

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

X13253

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

E = Input, A = Output, M = Ground

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Pin Assignments

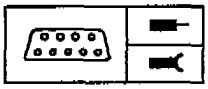
Pin	Type	Description/Function	Connection
11		Not used	
12		Not used	
13	E	Central arrest signal	Door lock switches
14	E	Lock signal driver's door	Door lock motor driver's door
15	E	Lock signal passenger's door	Door lock motor passenger's door
16	E	Lock signal trunk lid	Trunk lid lock motor
17	E	Data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

X13254

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

E = Input, A = Output, M = Ground

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Pin Assignments

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

X13255

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

E = Input, A = Output, M = Ground

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Pin Assignments

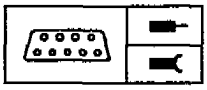
Pin	Type	Description/Function	Connection
11	E	Convertible: DATA-signal Four-door: OPEN-signal	Convertible top control module Passenger's window switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used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

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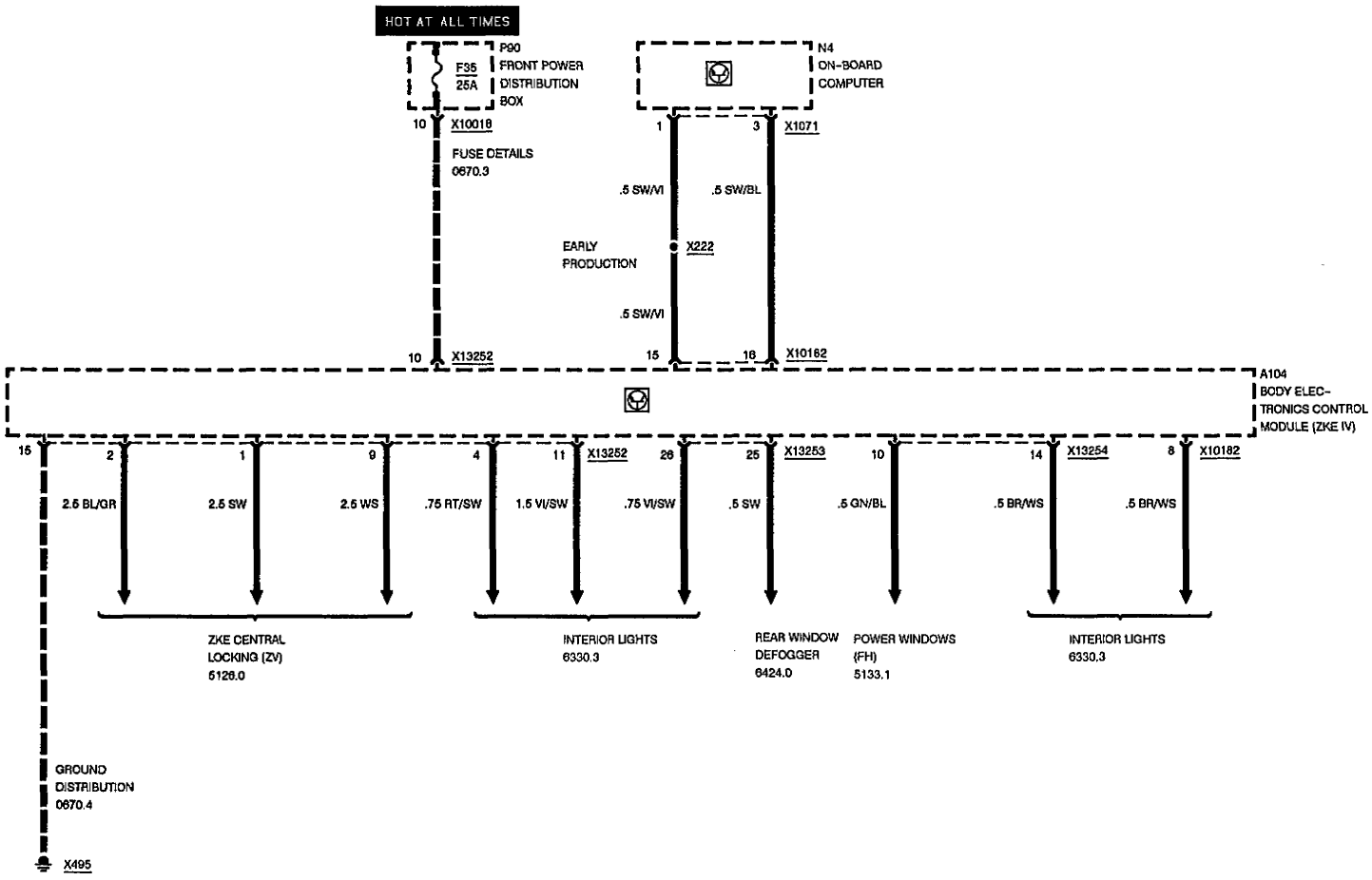
Pin Assignments

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

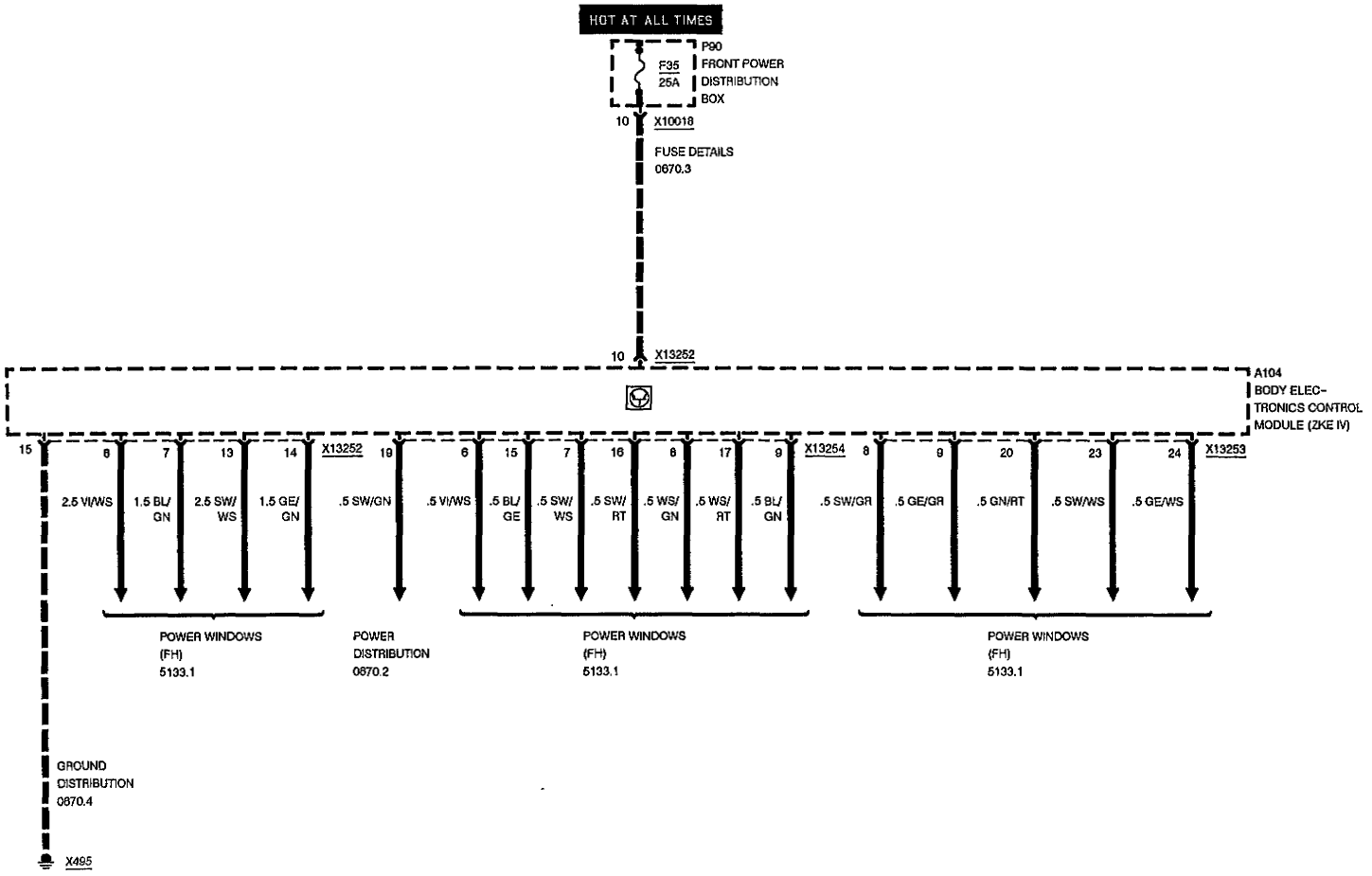
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CENTRAL BODY ELECTRONICS (ZKE IV)



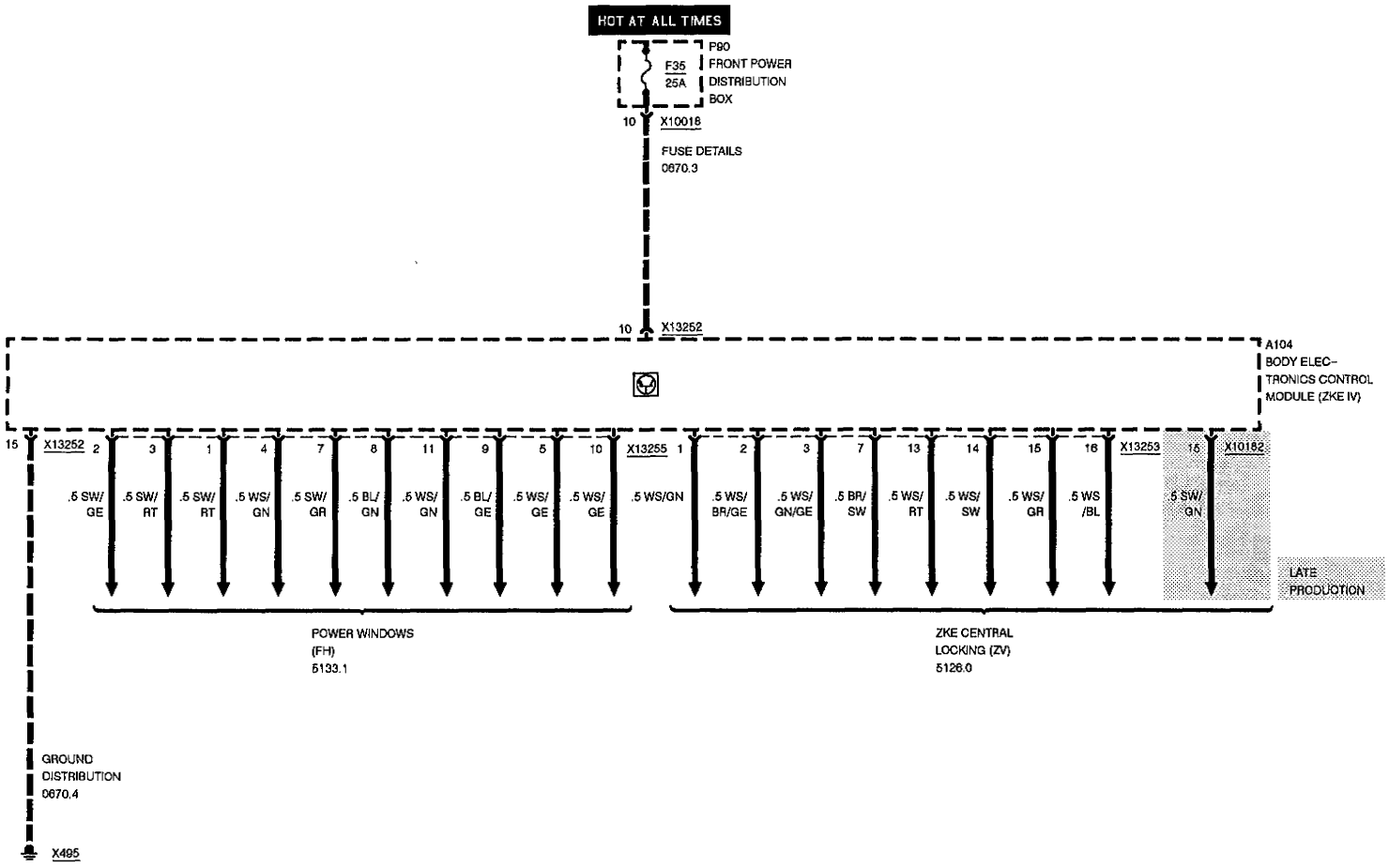
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CENTRAL BODY ELECTRONICS (ZKE IV)

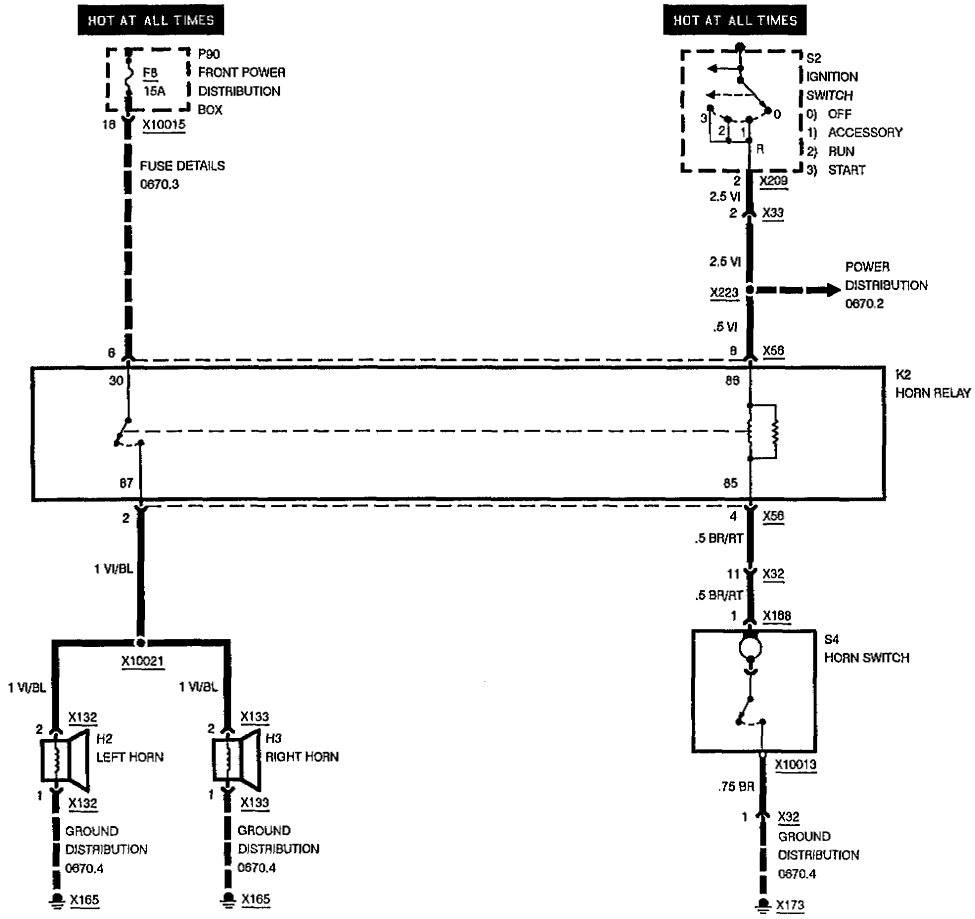


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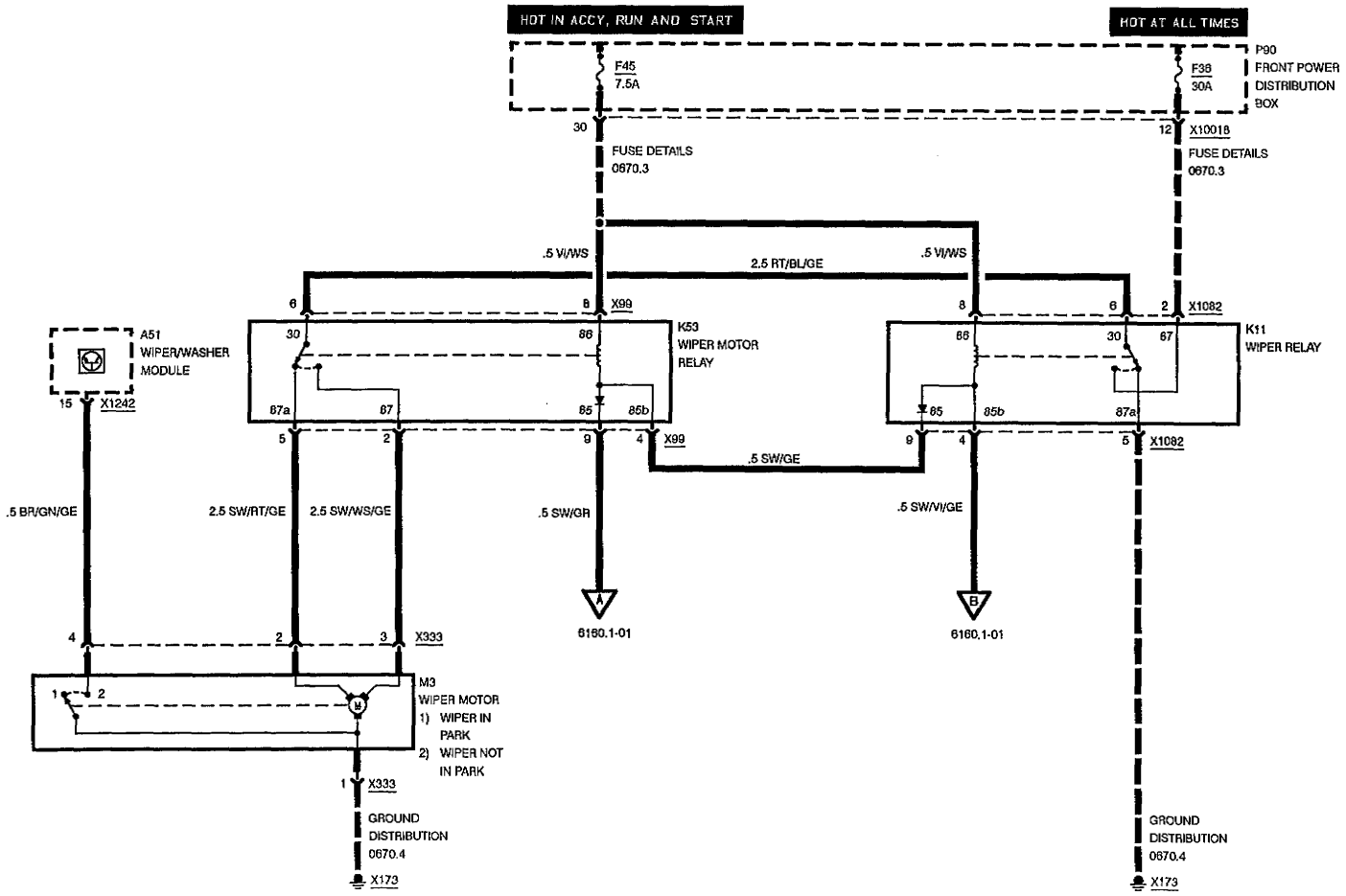
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WIPER/WASHER MODULE (WWM)

CDN

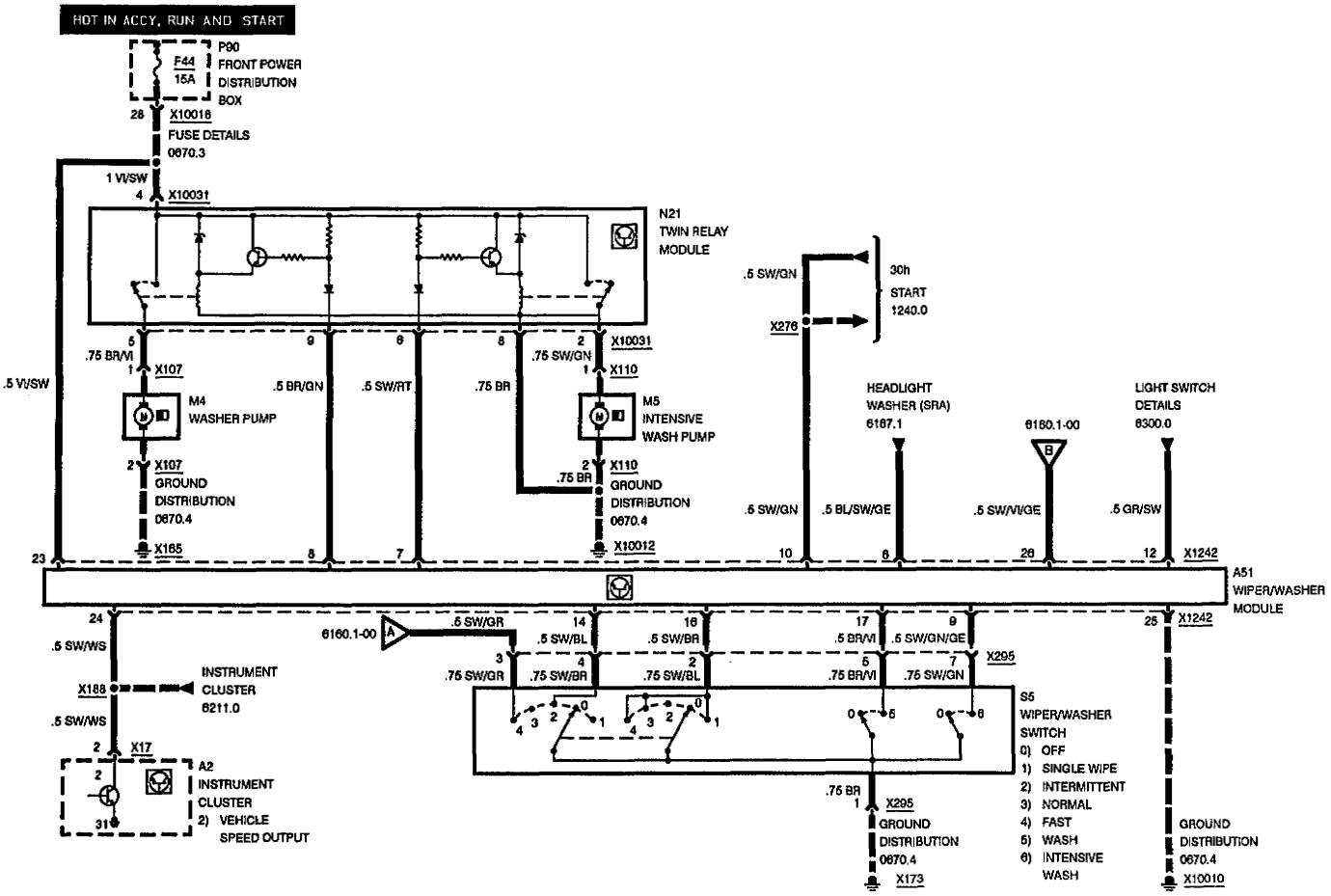
WASHER, INTENSIVE WASHER, HEADLIGHT WASHER - HIGH



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WIPER/WASHER MODULE (WWM)

WASHER, INTENSIVE WASHER, HEADLIGHT WASHER - HIGH

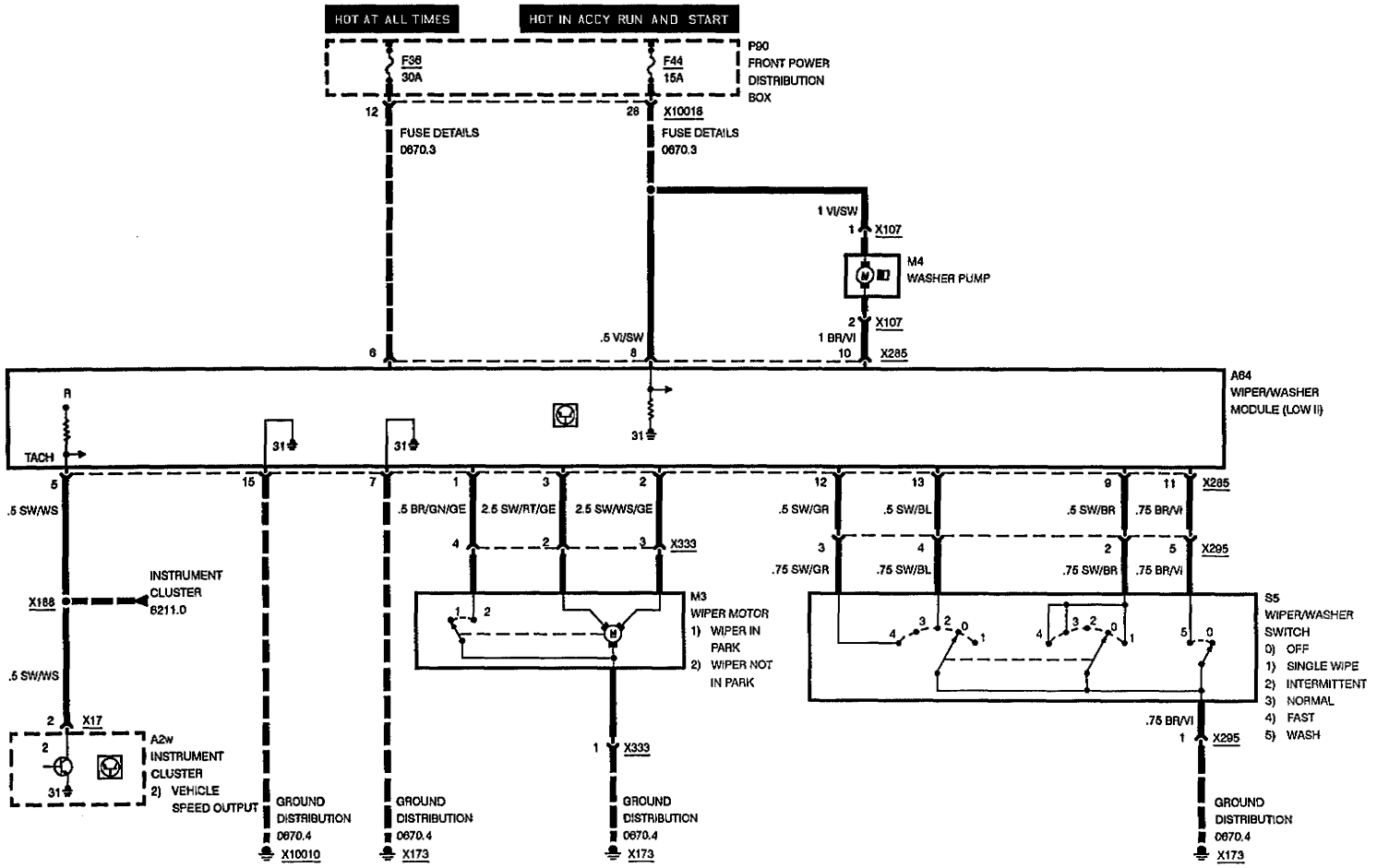


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WIPER/WASHER MODULE (WWM)

USA

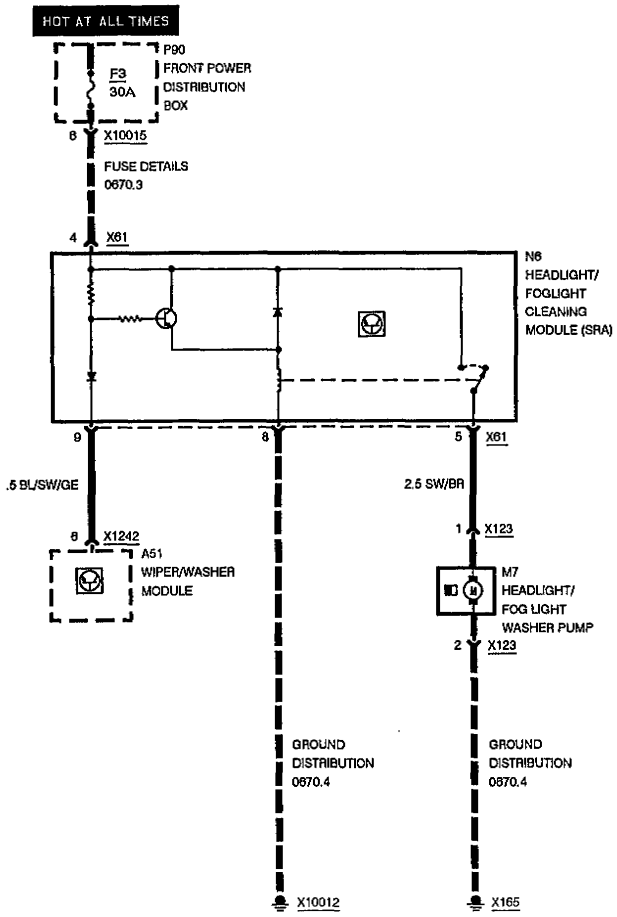
WASHER - LOW



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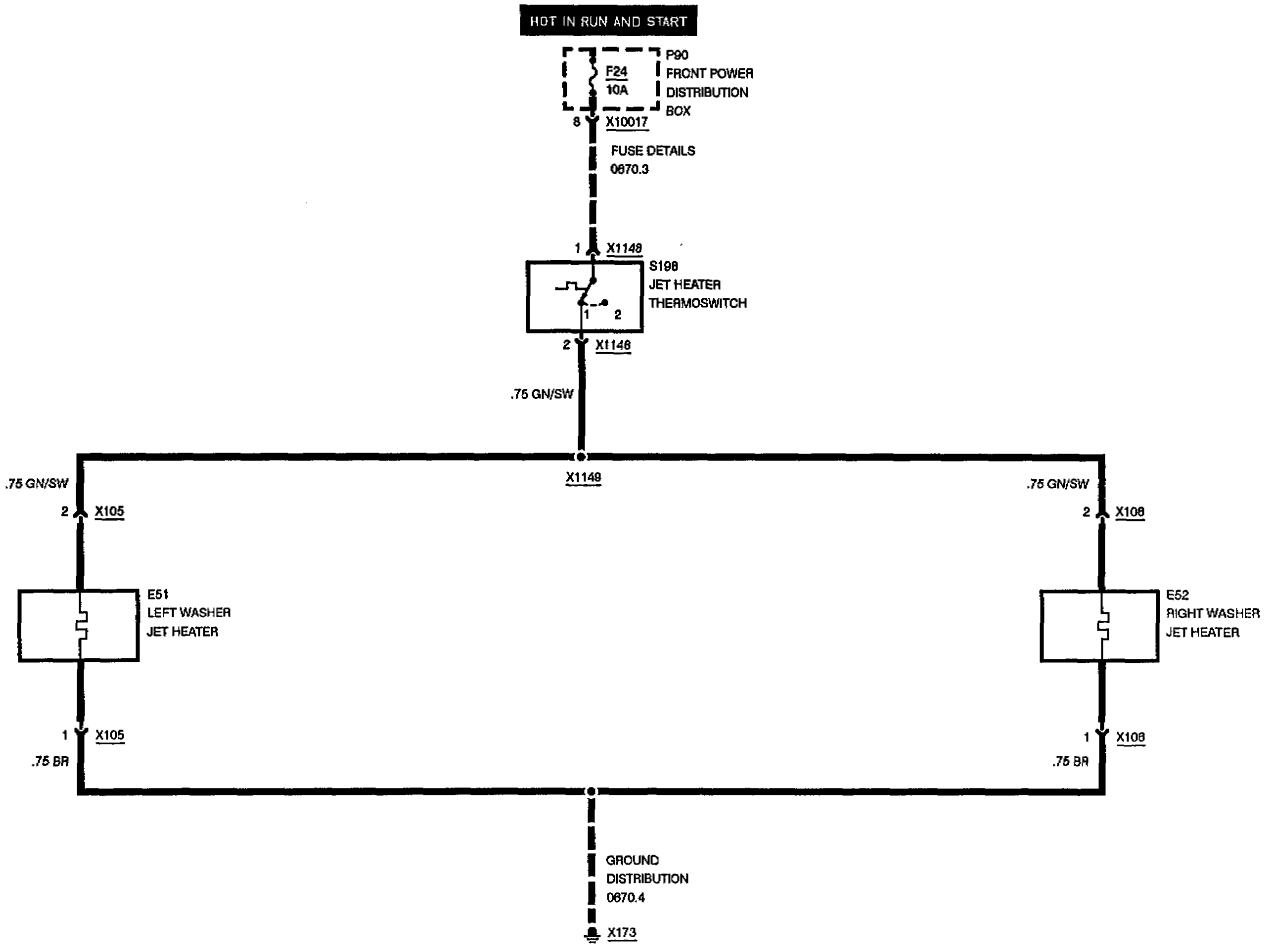
HEADLIGHT WASHER (SRA)



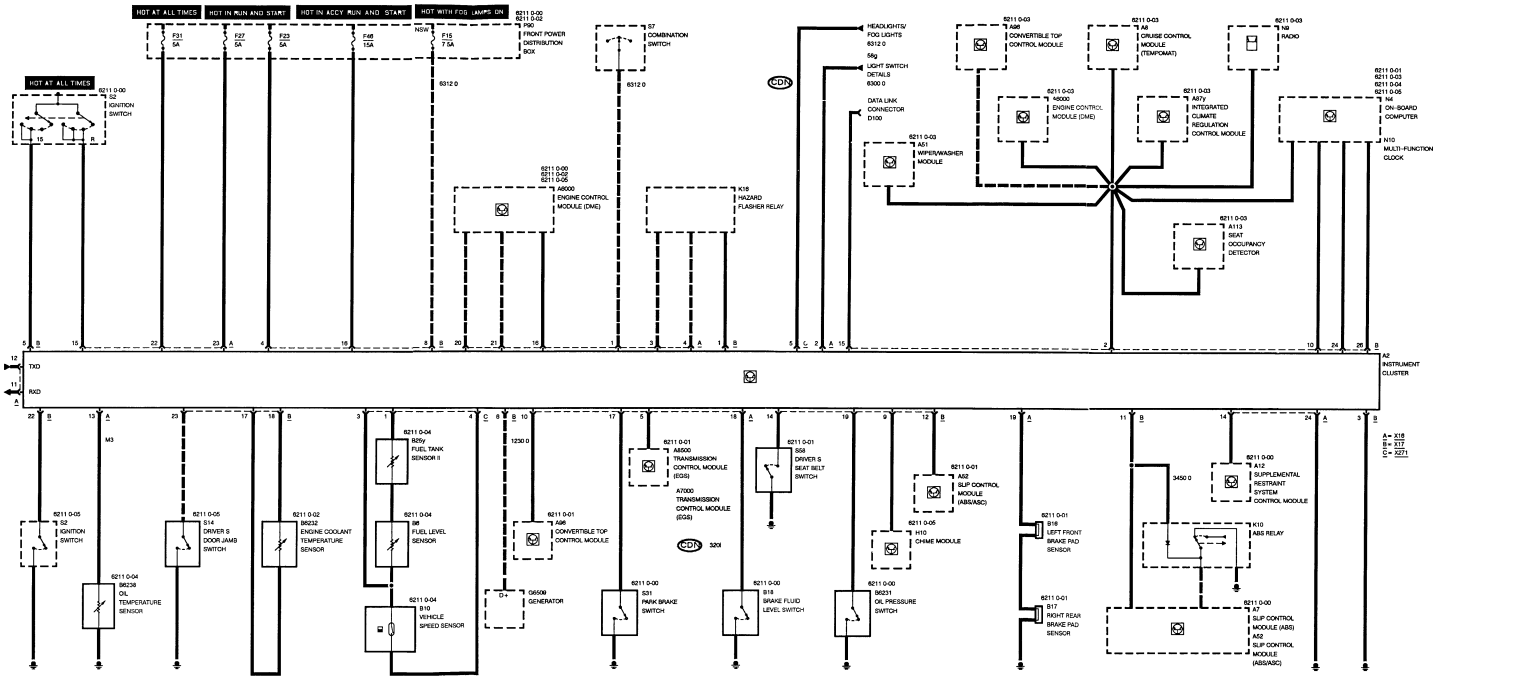
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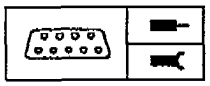
WINDSHIELD WASHER JET HEATERS



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Pin Assignments

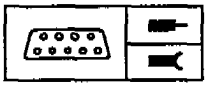
A = X16	26 Pins, white
B = X17	26 Pins, blue
C = X271	12 Pins, black

X16

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

E = Input, A = Output, M = Ground

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Pin Assignments

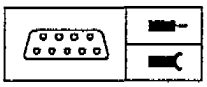
Pin	Type	Description/Function	Connection
24	M	Ground supply, terminal 31 for instrument cluster electronics	Ground
25		Not used	
26		Not used	

X17

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

E = Input, A = Output, M = Ground

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Pin Assignments

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

X271

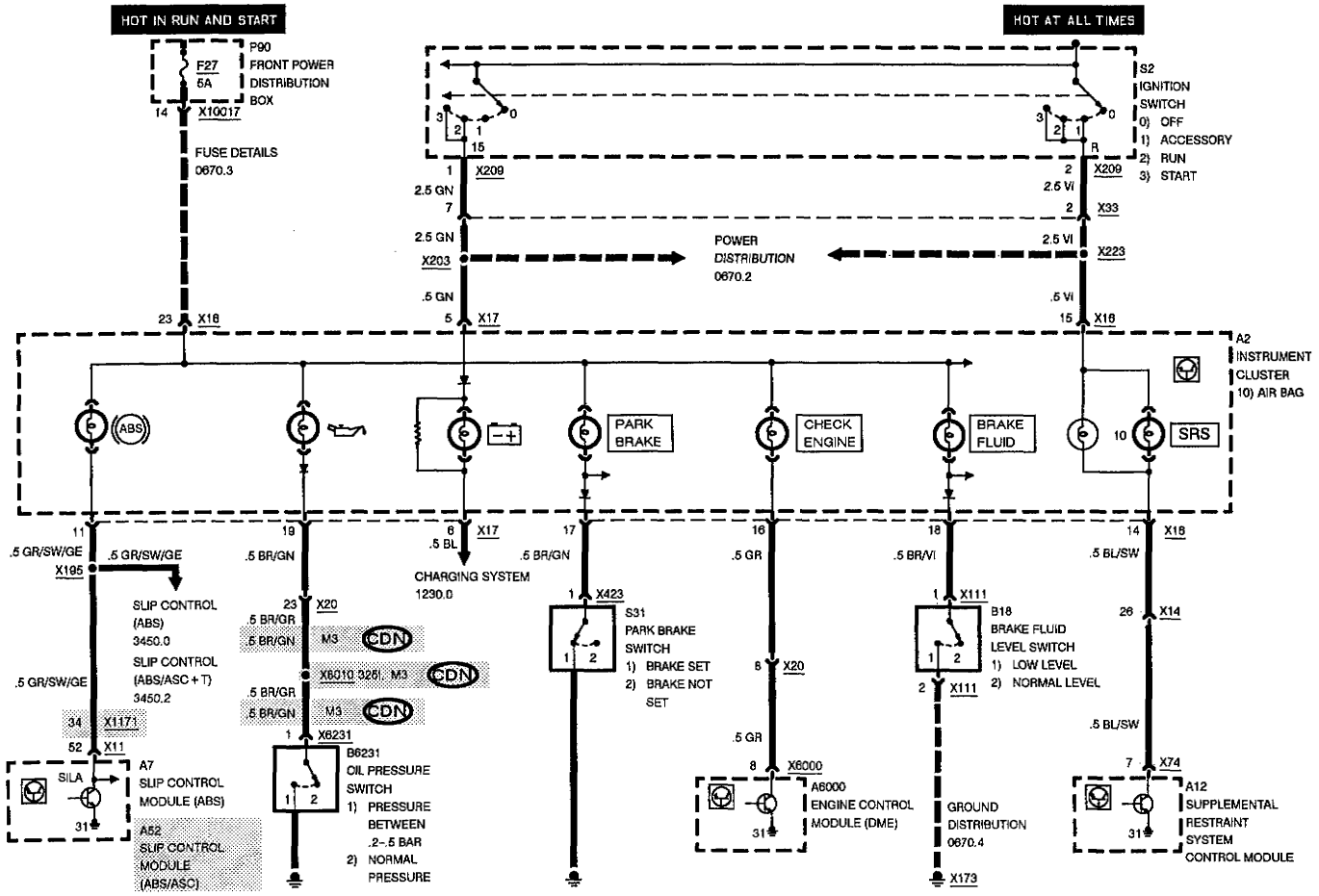
Pin	Type	Description/Function	Connection
1	A	Fuel level sensor	Fuel tank sensors
2		Not used	
3	A	Ground supply for fuel tank sensors and vehicle speed sensor	Fuel tank sensors and vehicle speed sensor
4	E	Position signal tw	Vehicle speed sensor
5	E	Rear fog lights indicator control	Rear fog light switch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

E = Input, A = Output, M = Ground

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INSTRUMENT CLUSTER

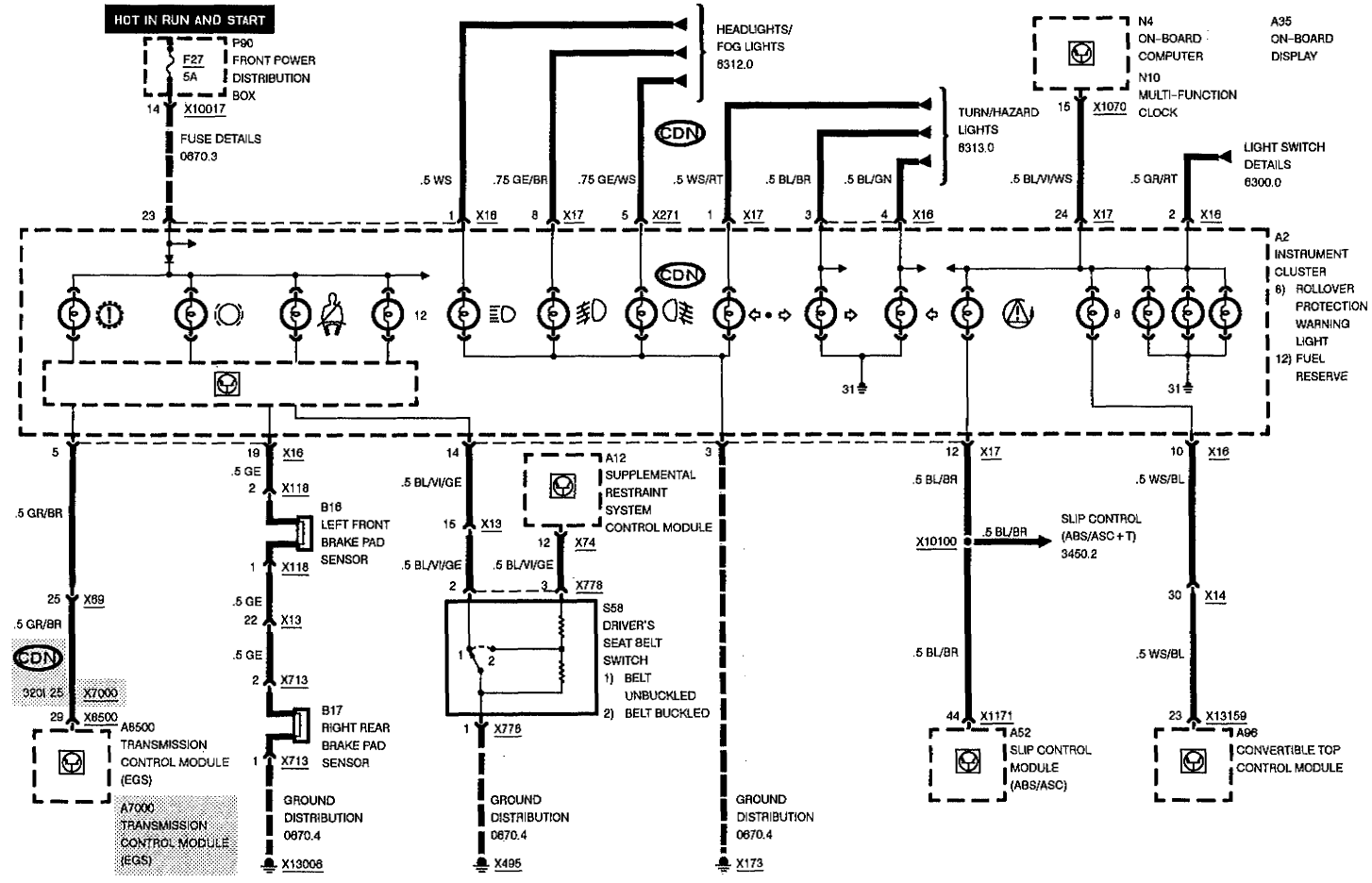
INDICATORS



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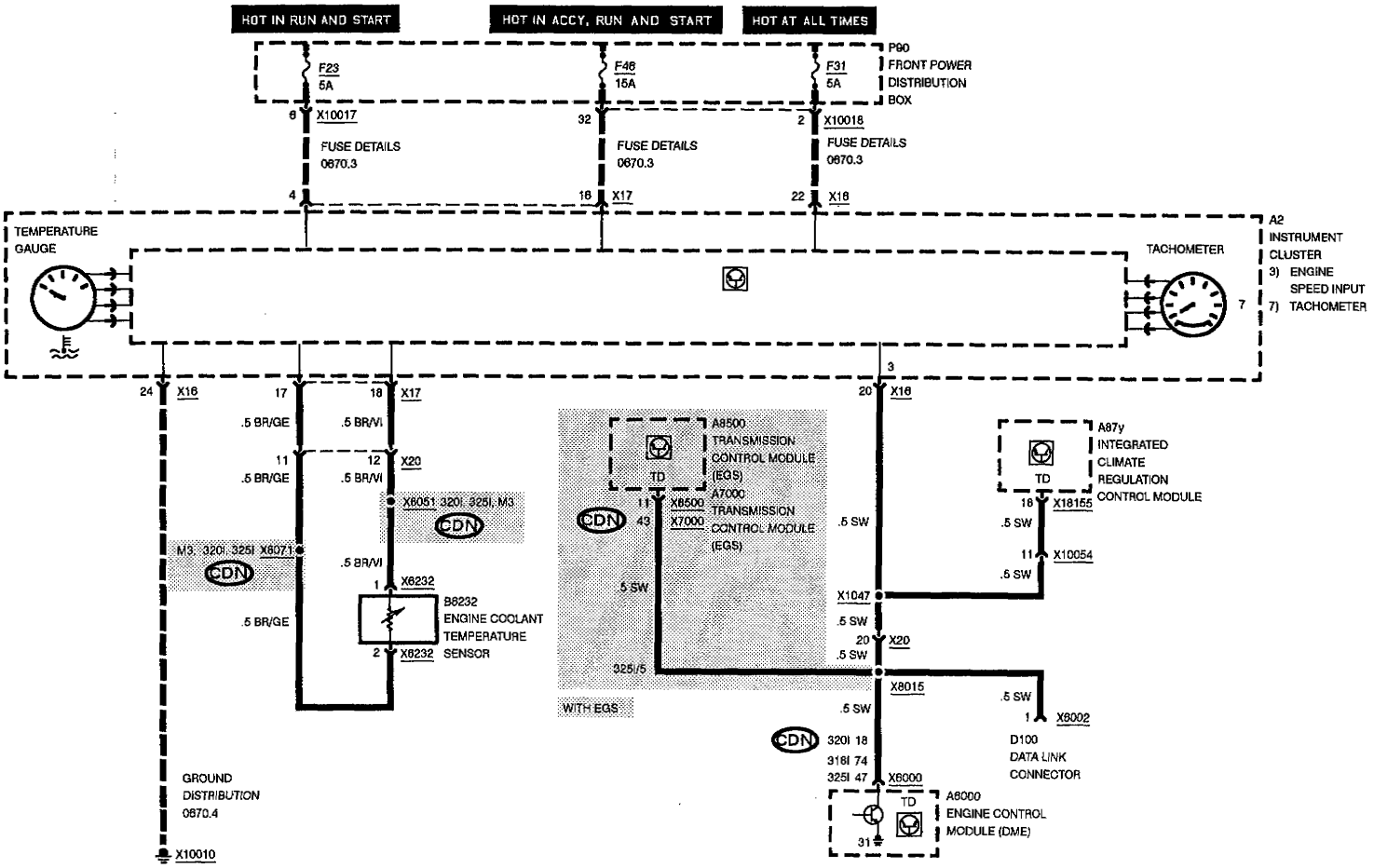
INDICATORS



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BMW 3 INSTRUMENT CLUSTER

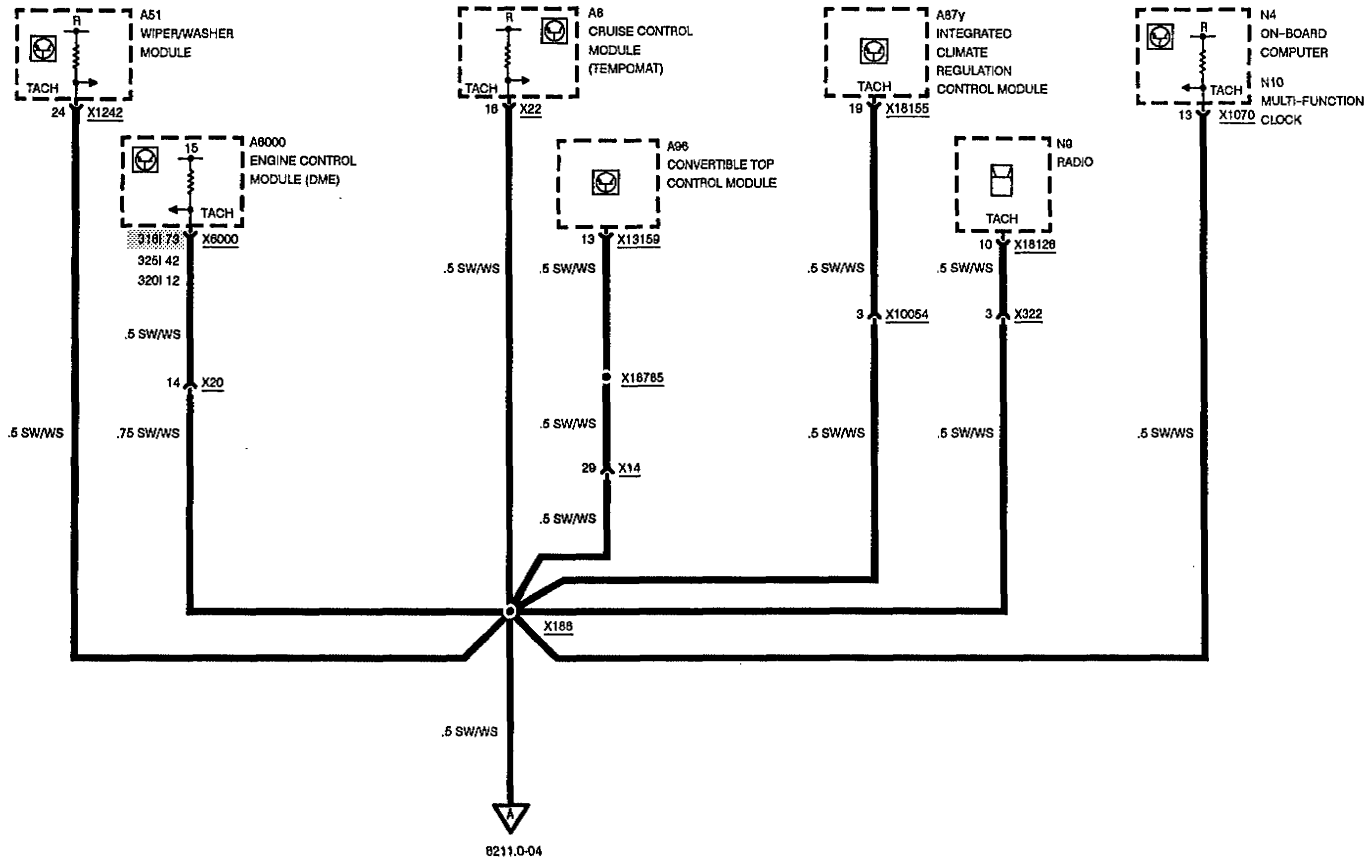
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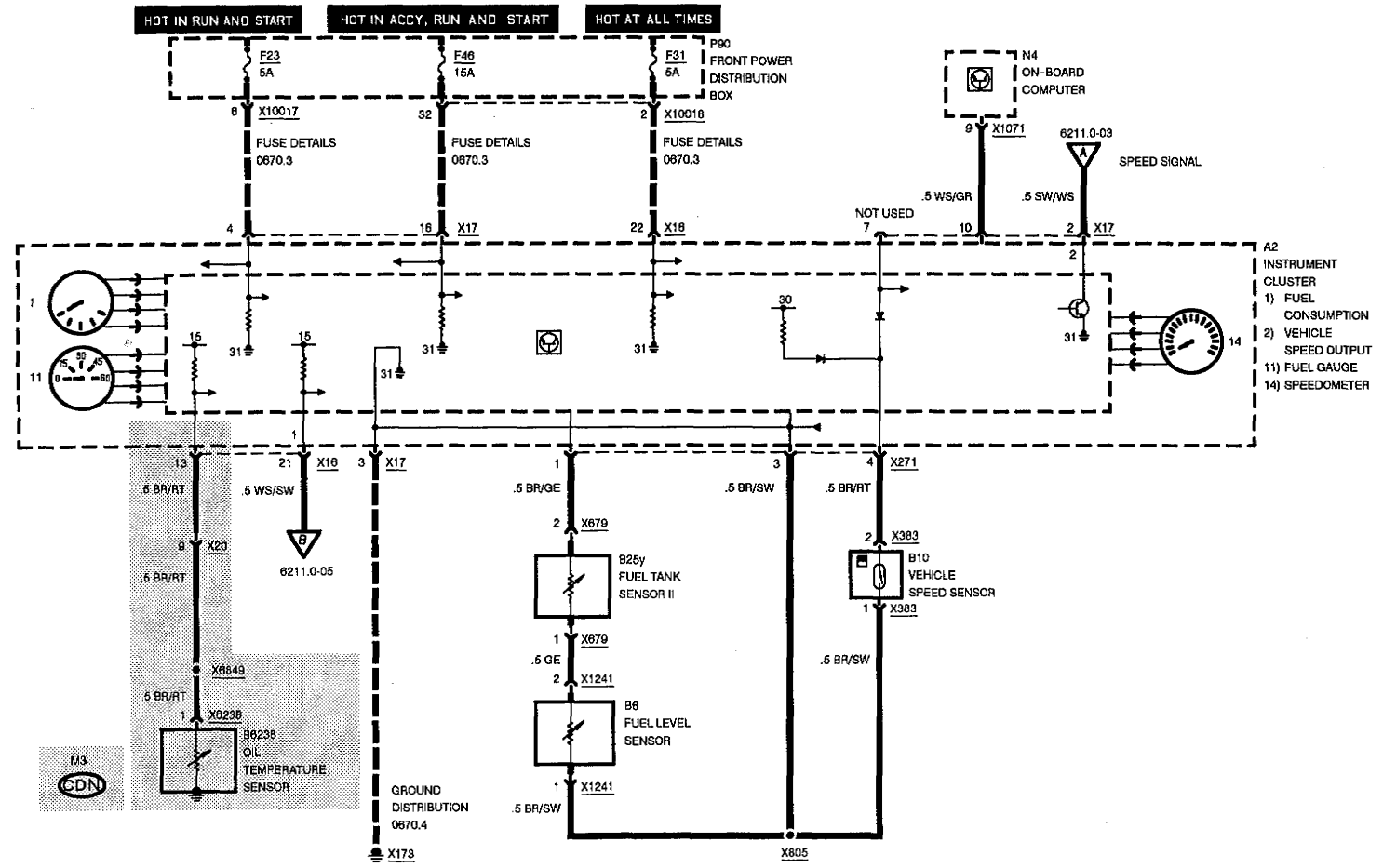
SIGNAL-OUTPUT SPEEDOMETER



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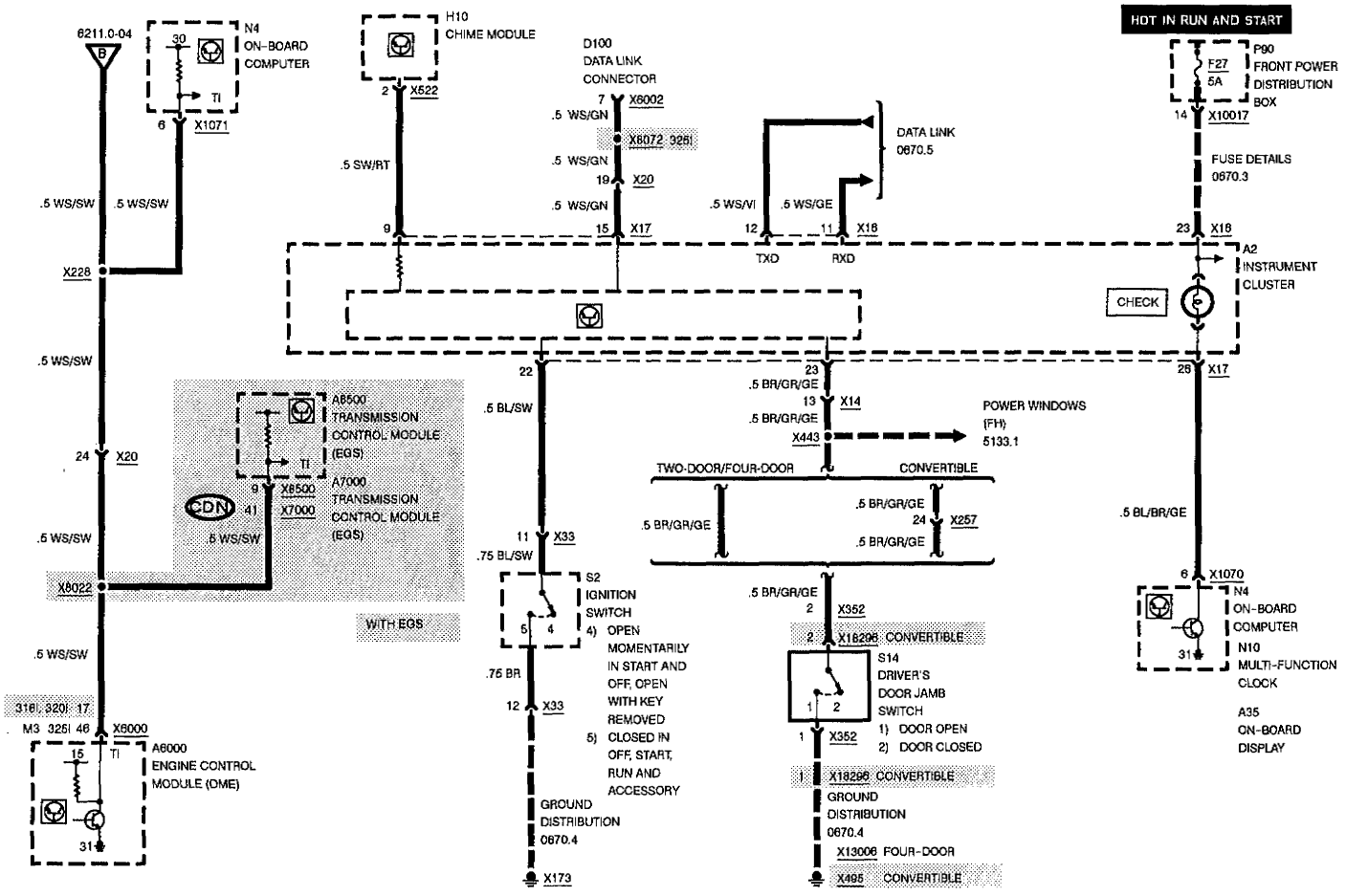
INDICATORS



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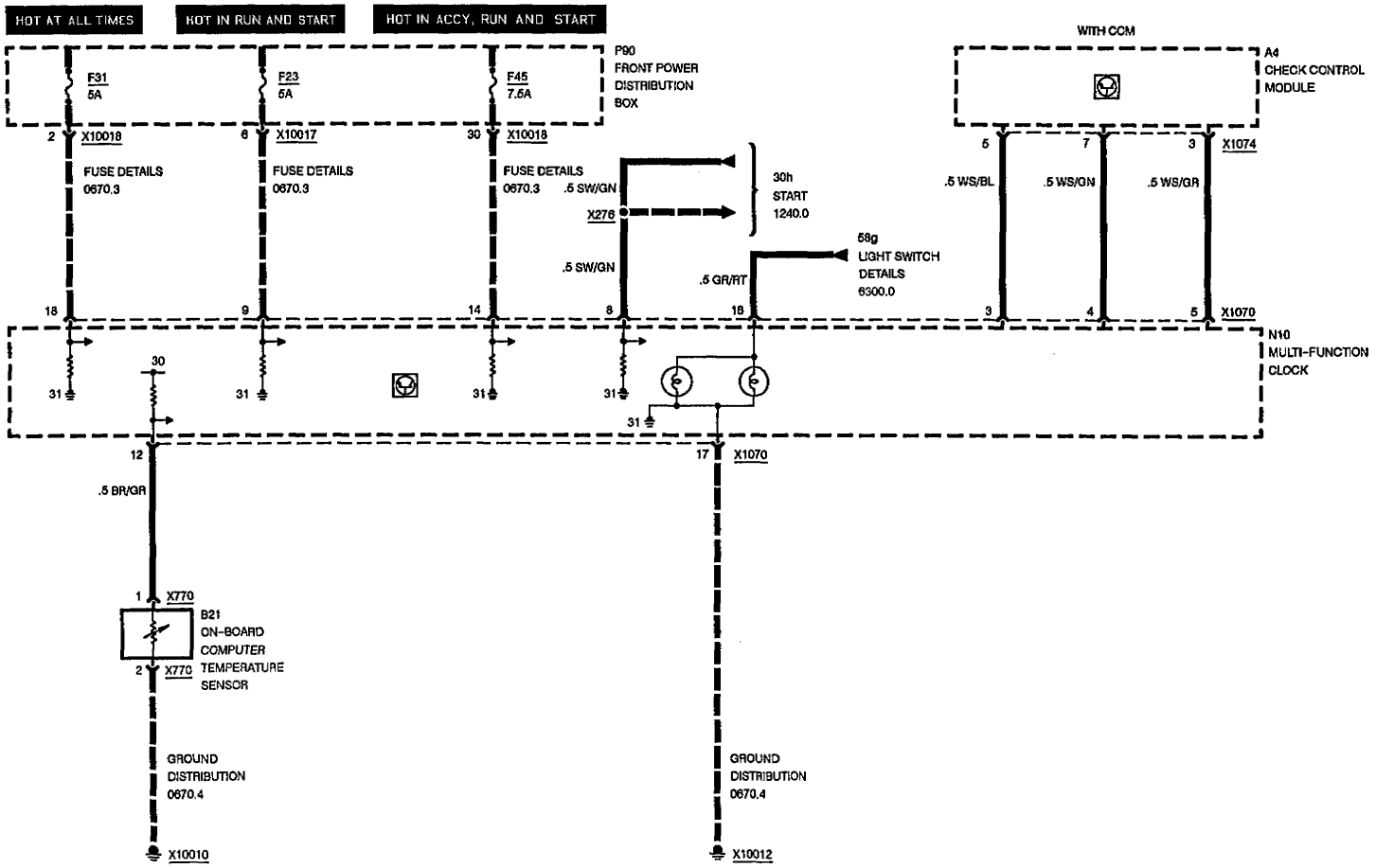
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INDICATORS



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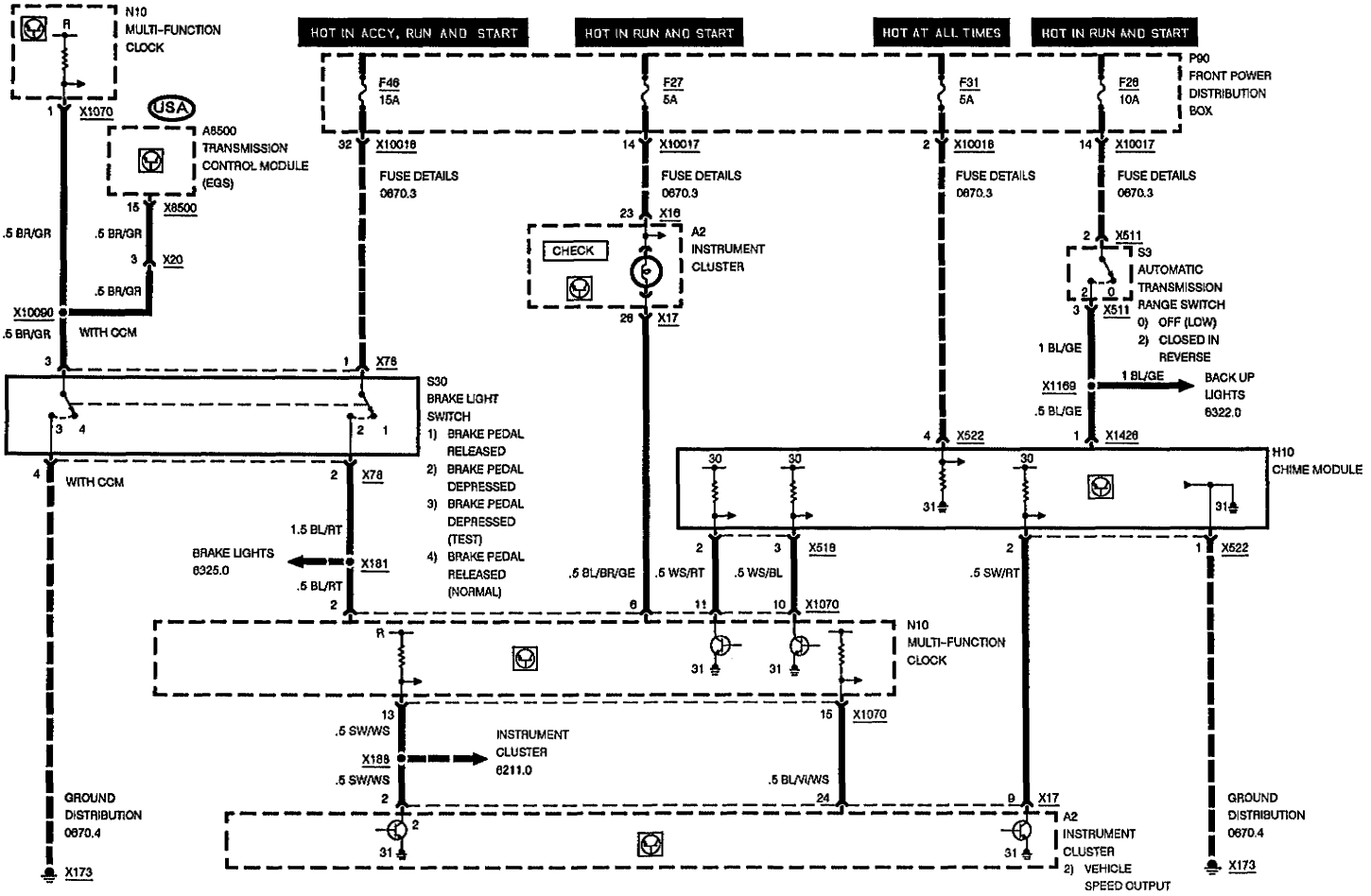
MULTI-FUNCTION CLOCK



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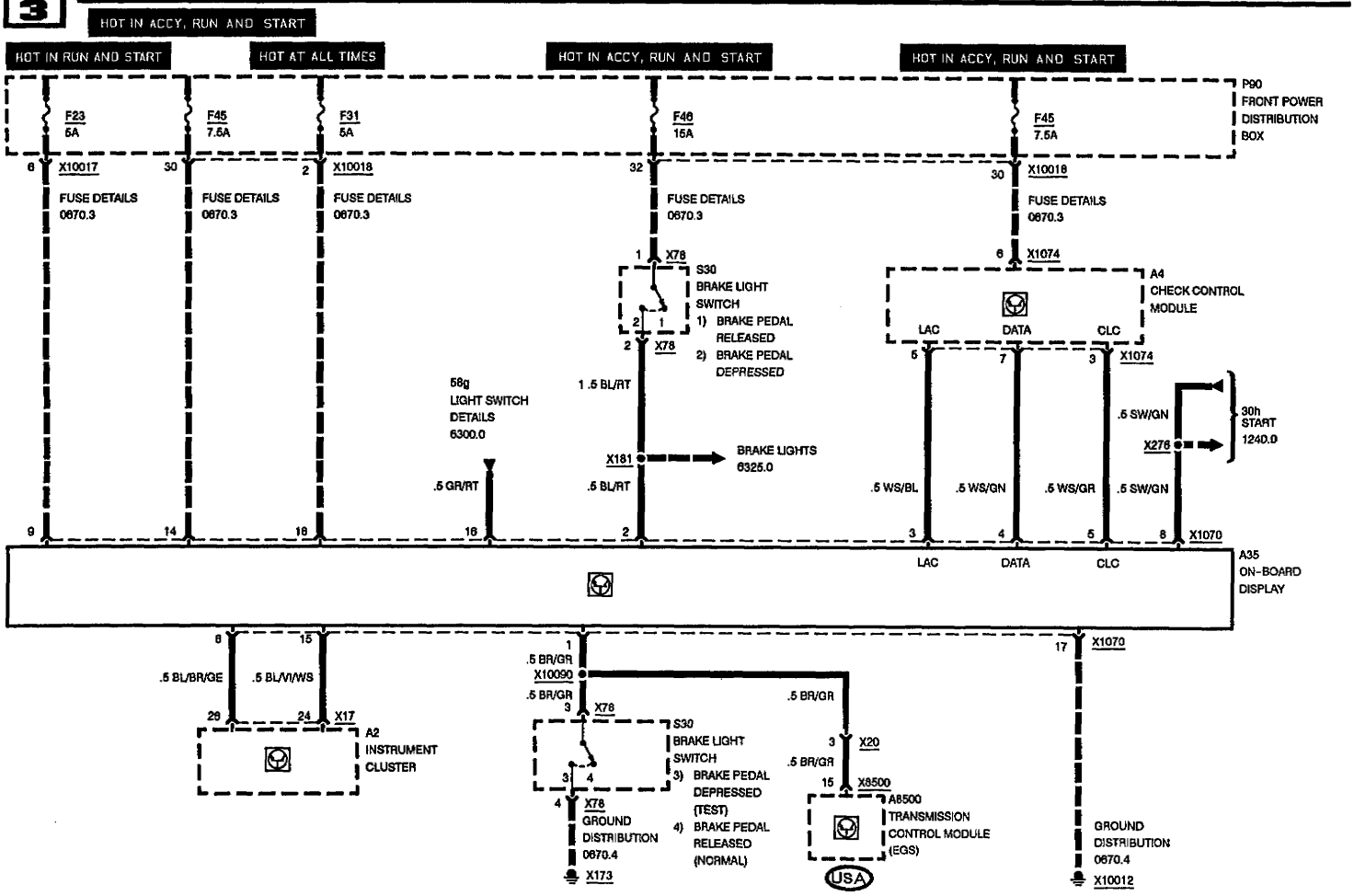
MULTI-FUNCTION CLOCK

CHIME, BRAKE LIGHT SWITCH



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ON-BOARD DISPLAY

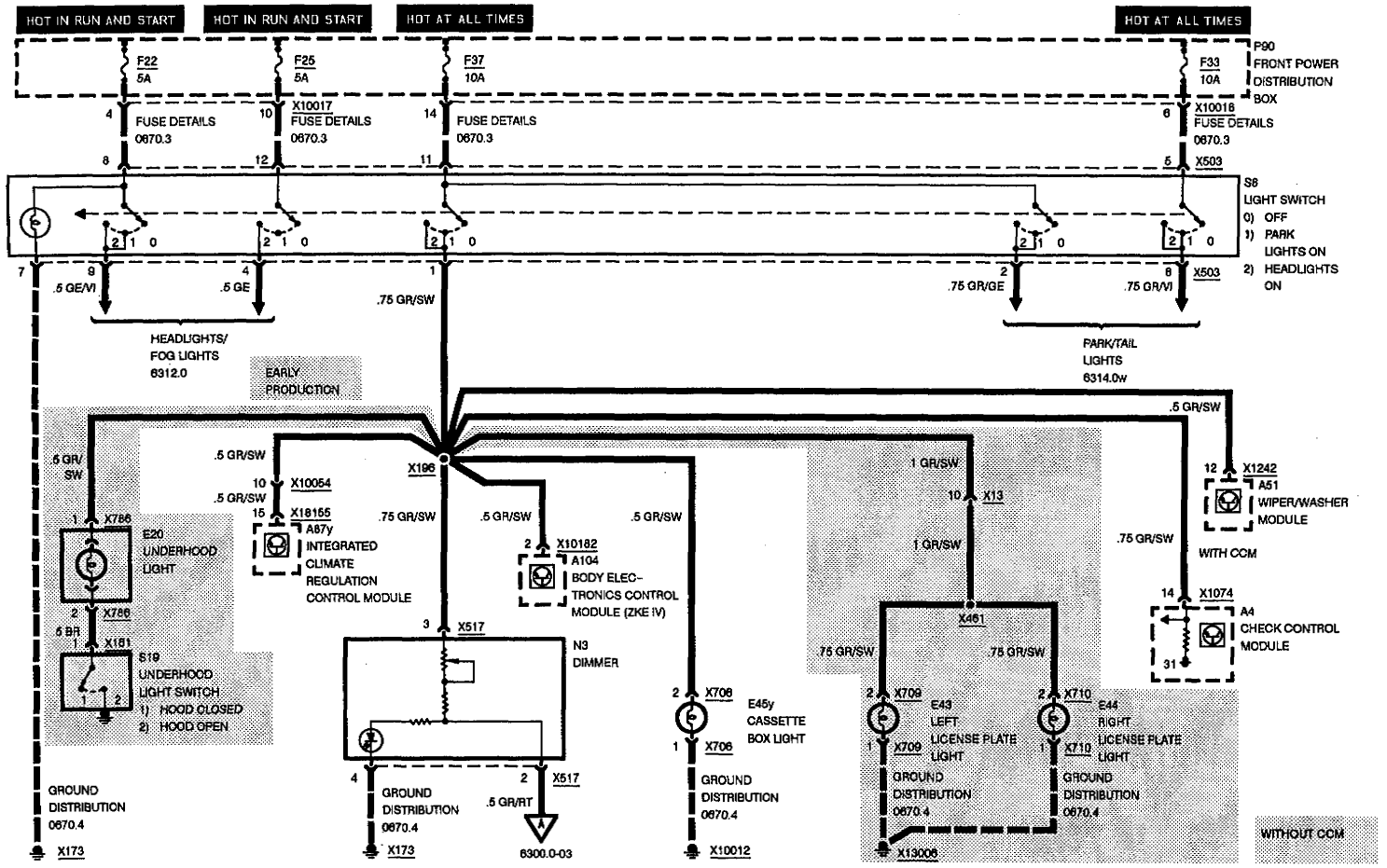


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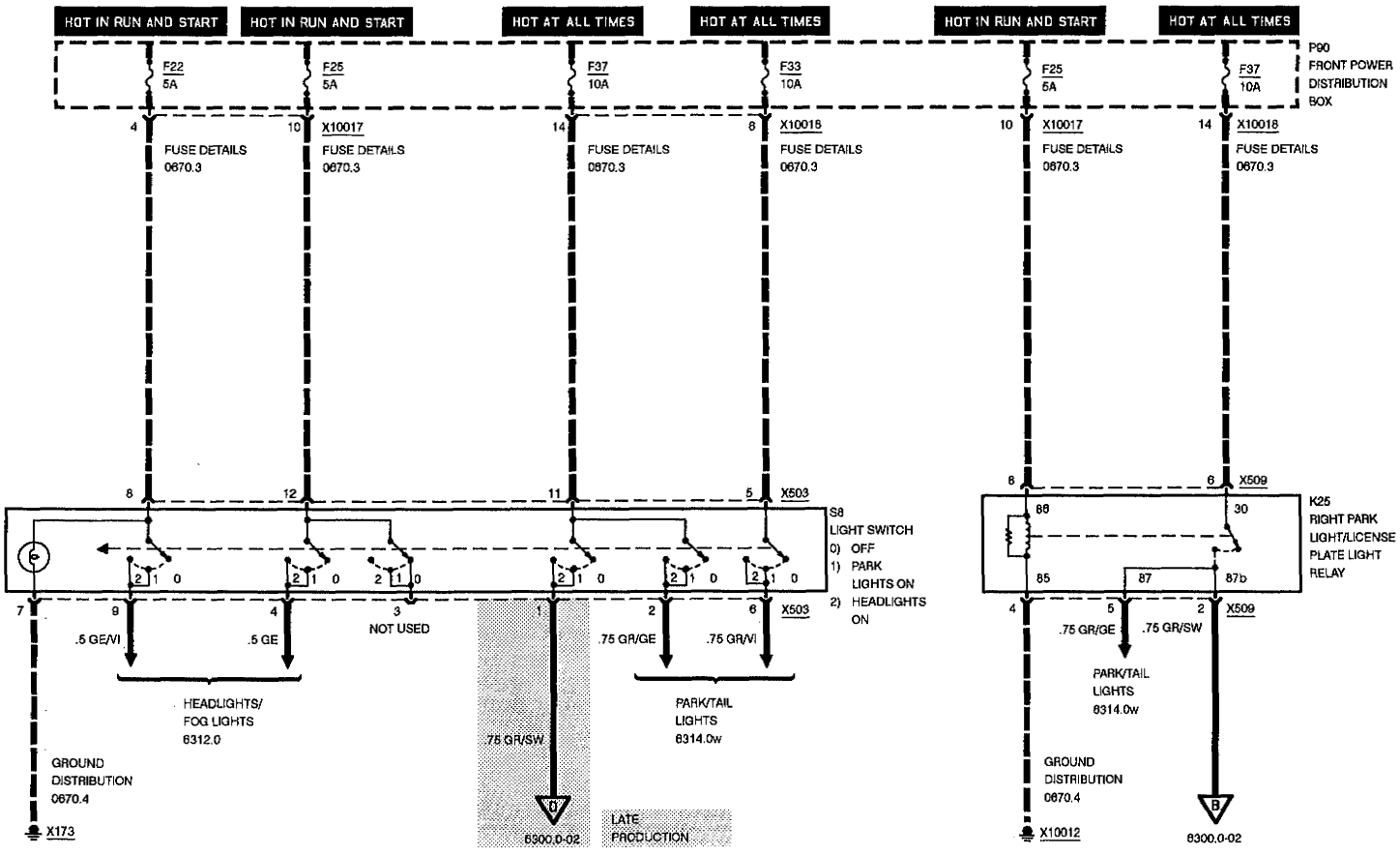
LIGHT SWITCH DETAILS

USA



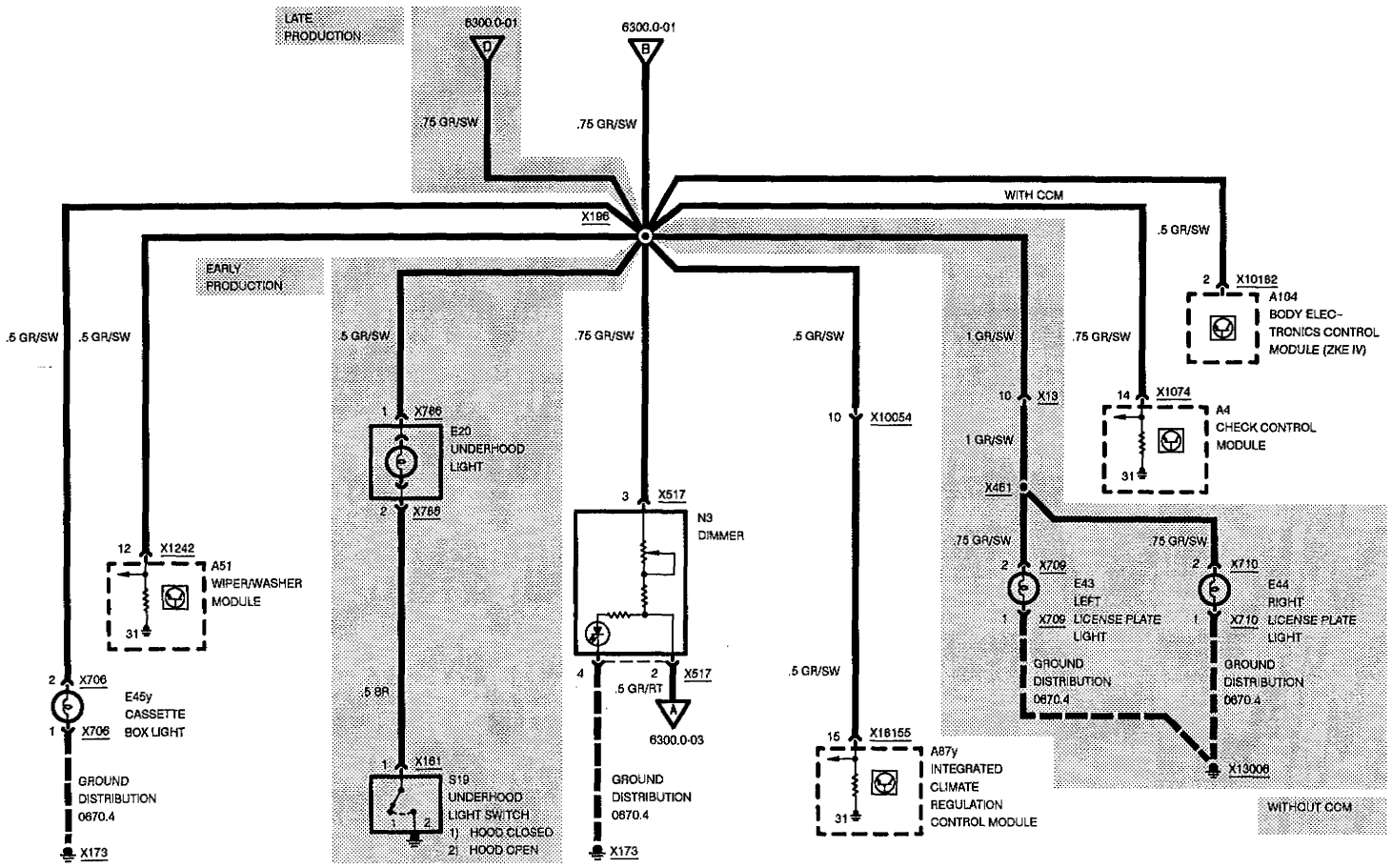
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LIGHT SWITCH DETAILS



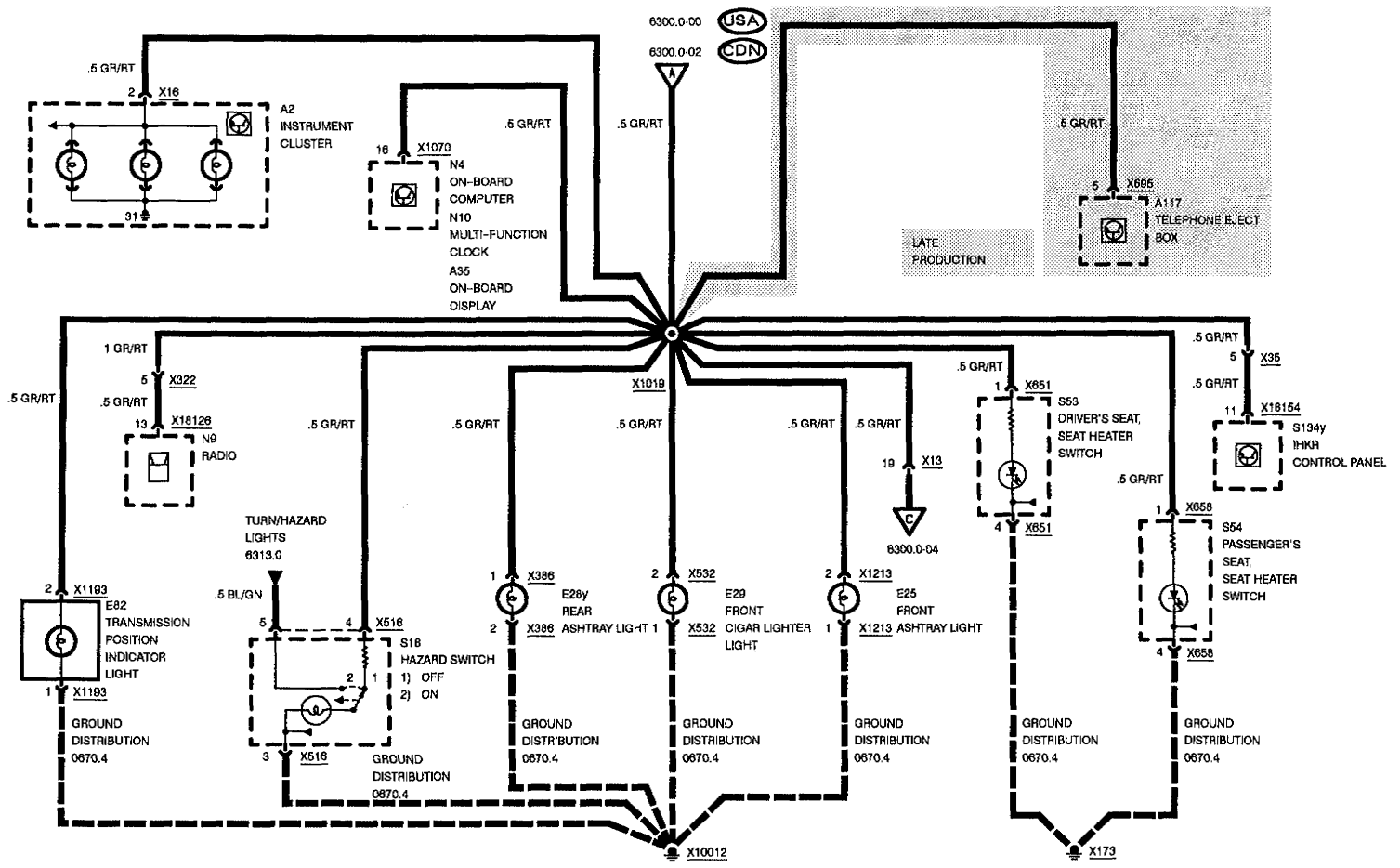
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LIGHT SWITCH DETAILS



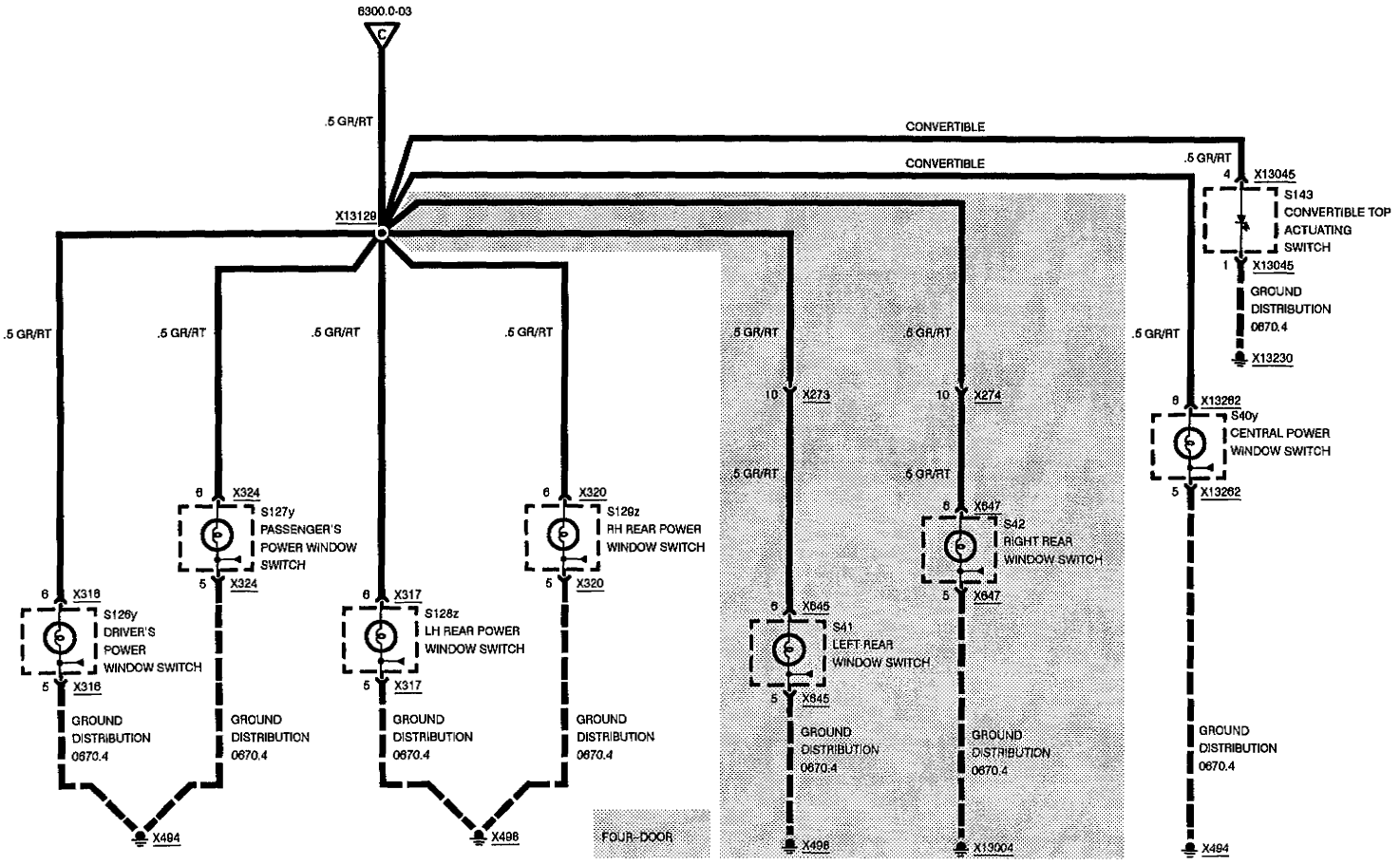
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LIGHT SWITCH DETAILS



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LIGHT SWITCH DETAILS

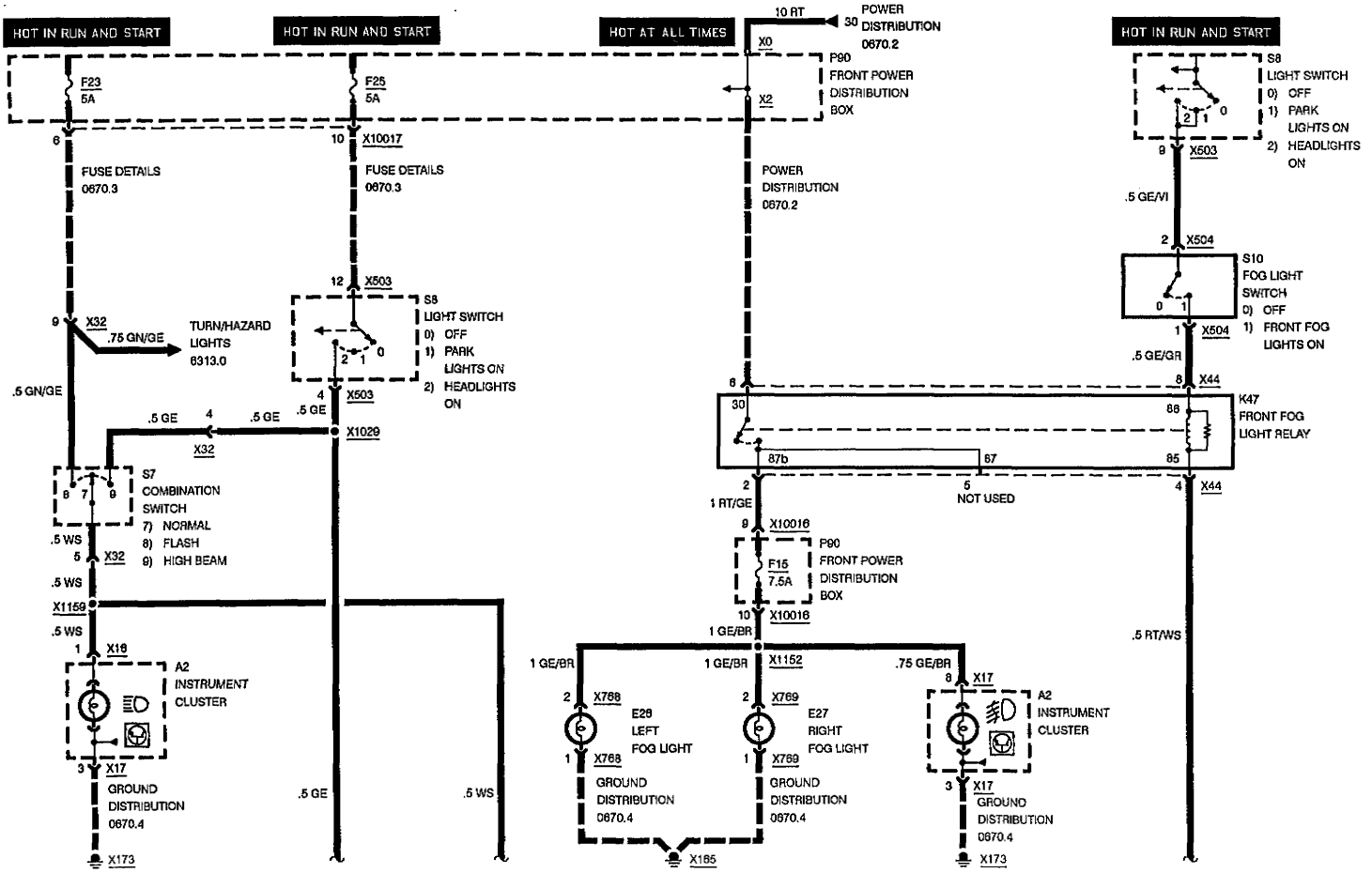


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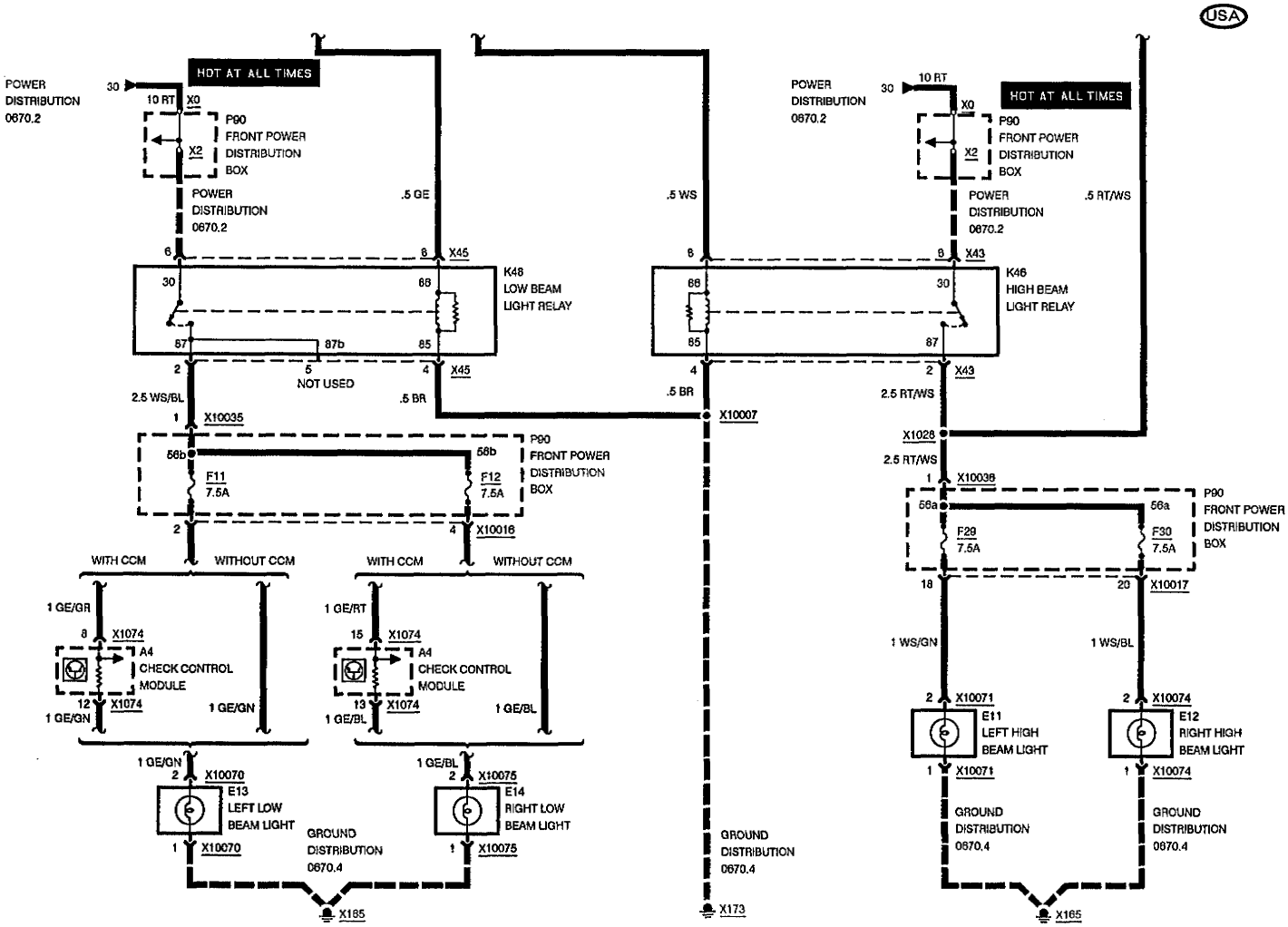
HEADLIGHTS/ FOG LIGHTS

USA



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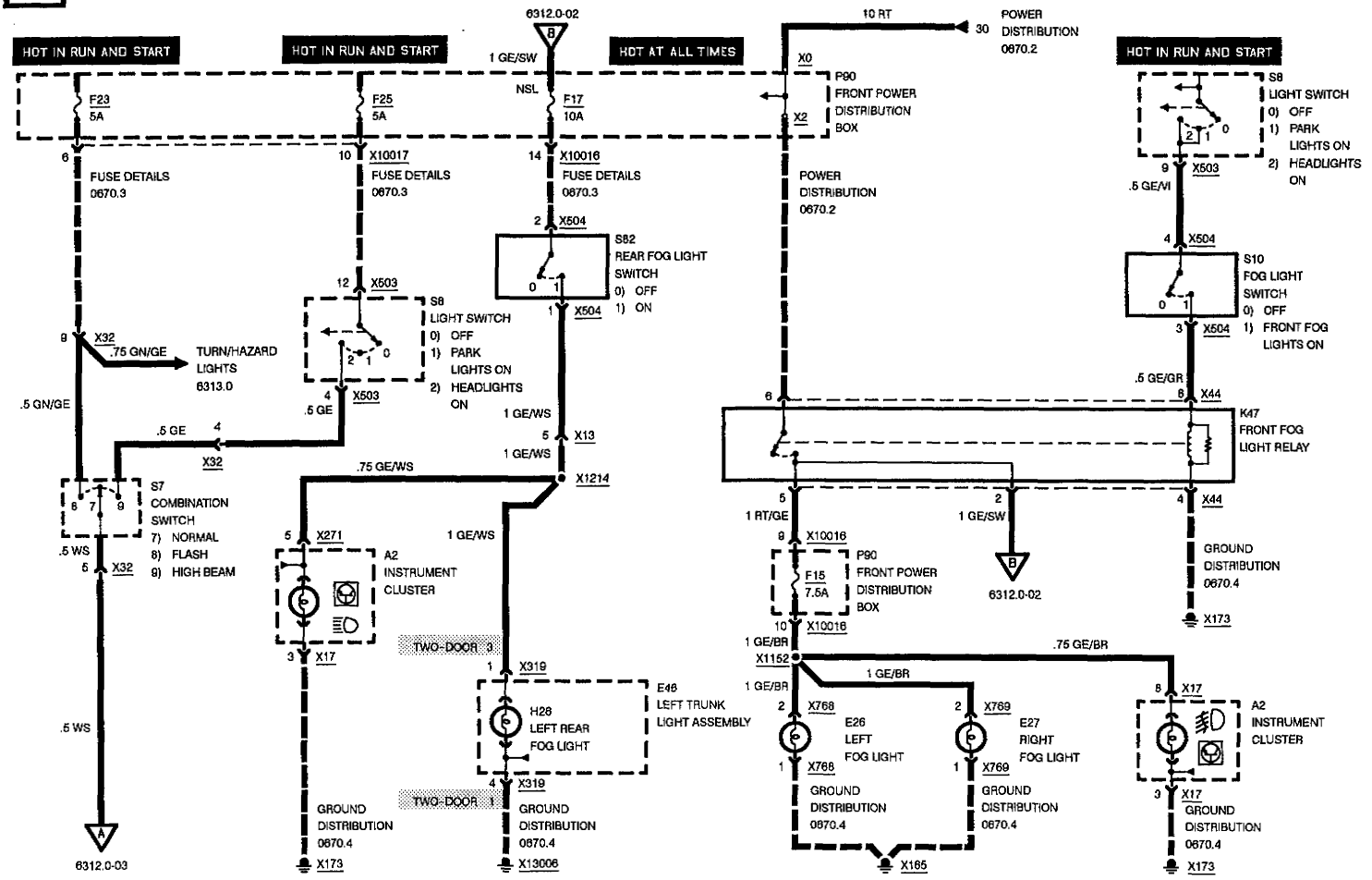
USA



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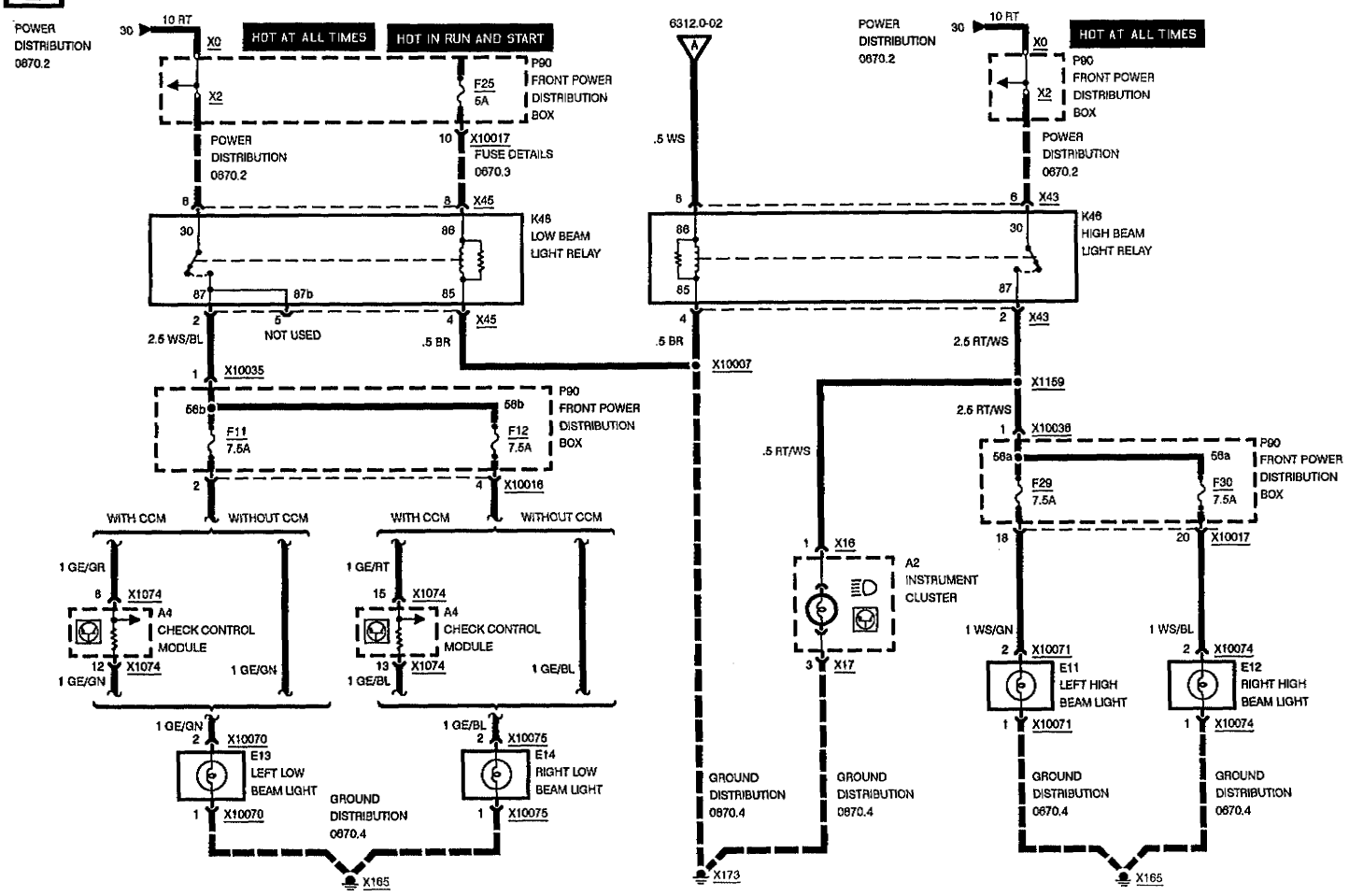
HEADLIGHTS/ FOG LIGHTS

CDN



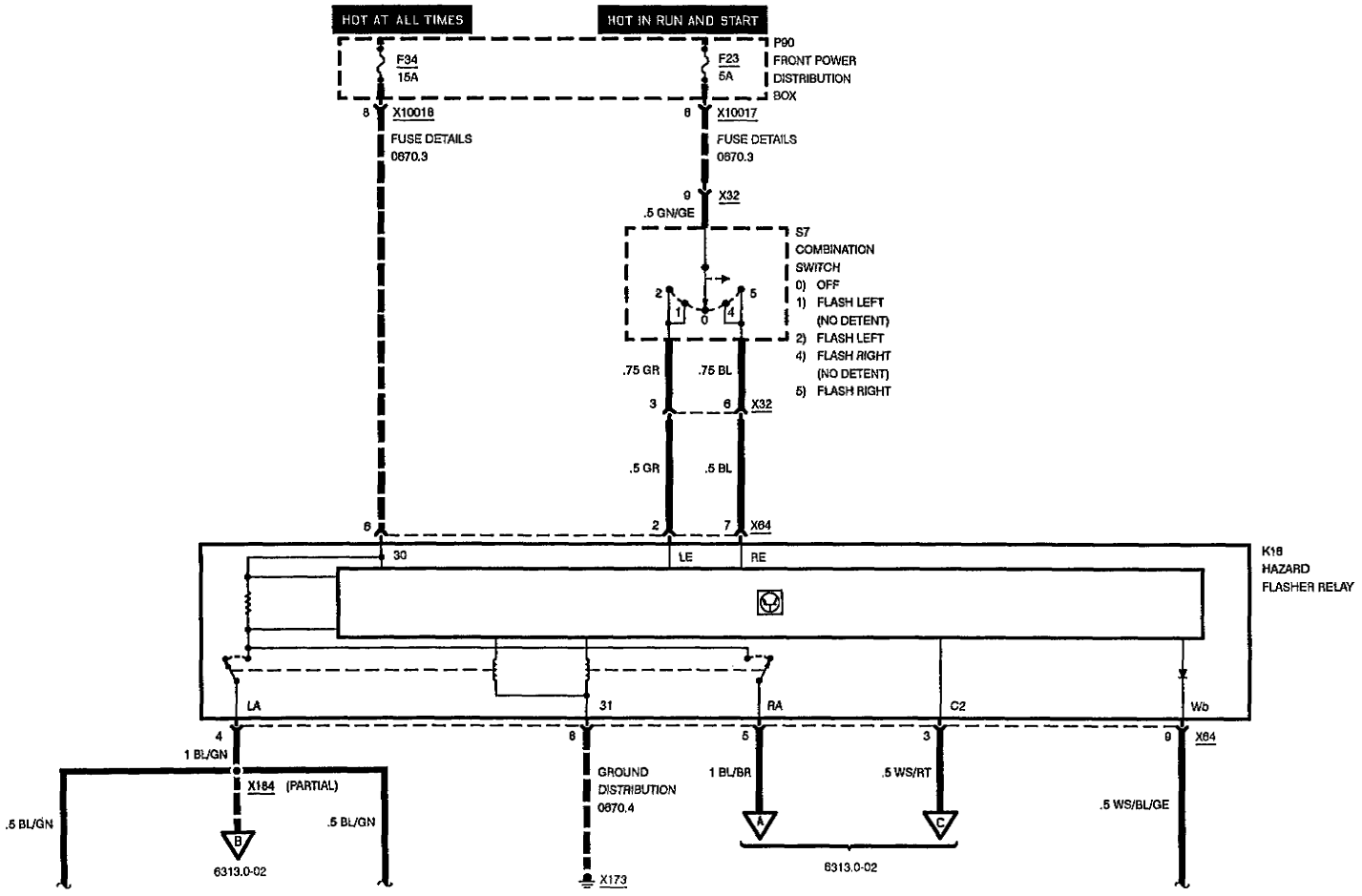
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HEADLIGHTS/ FOG LIGHTS

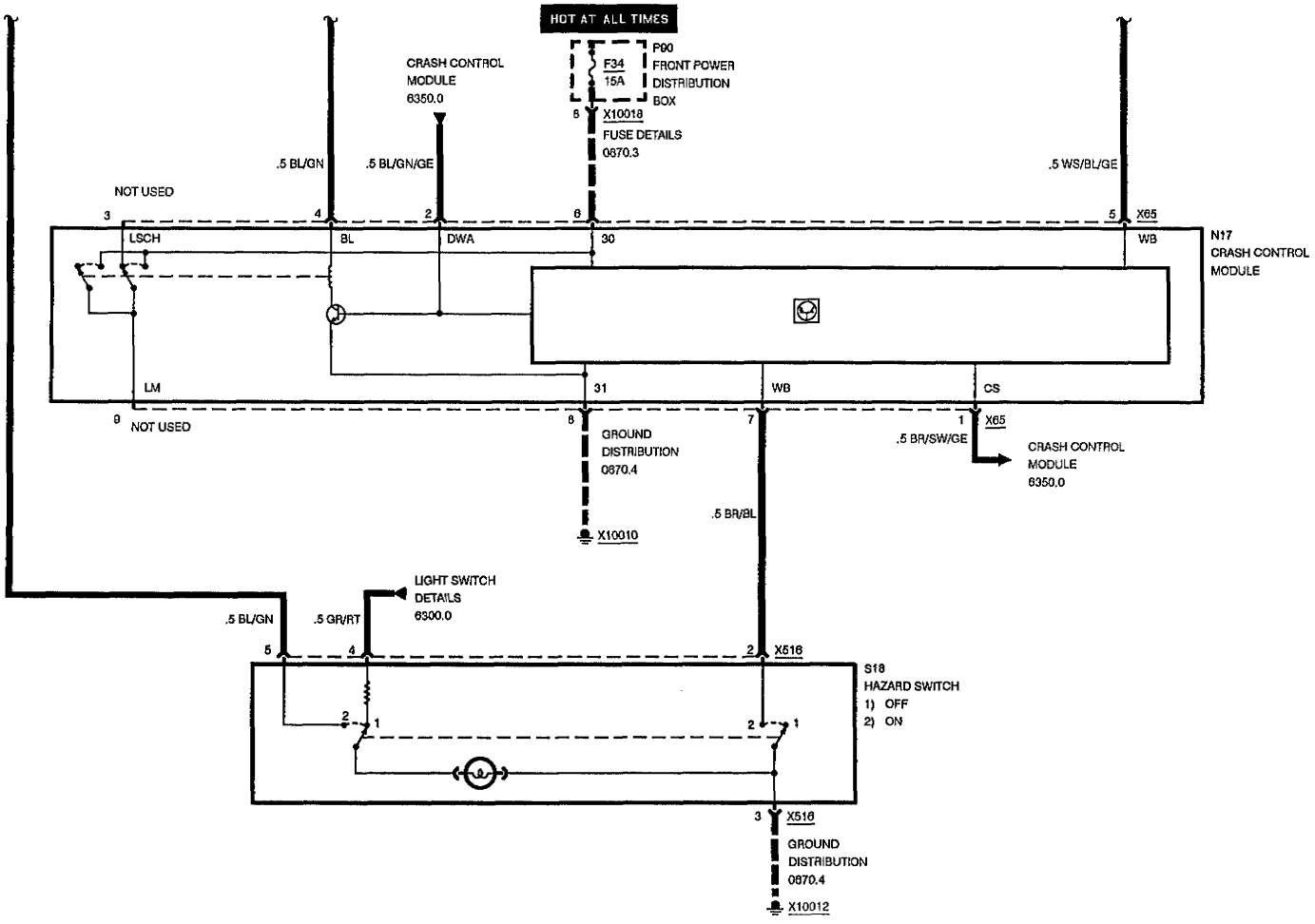


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TURN/HAZARD LIGHTS

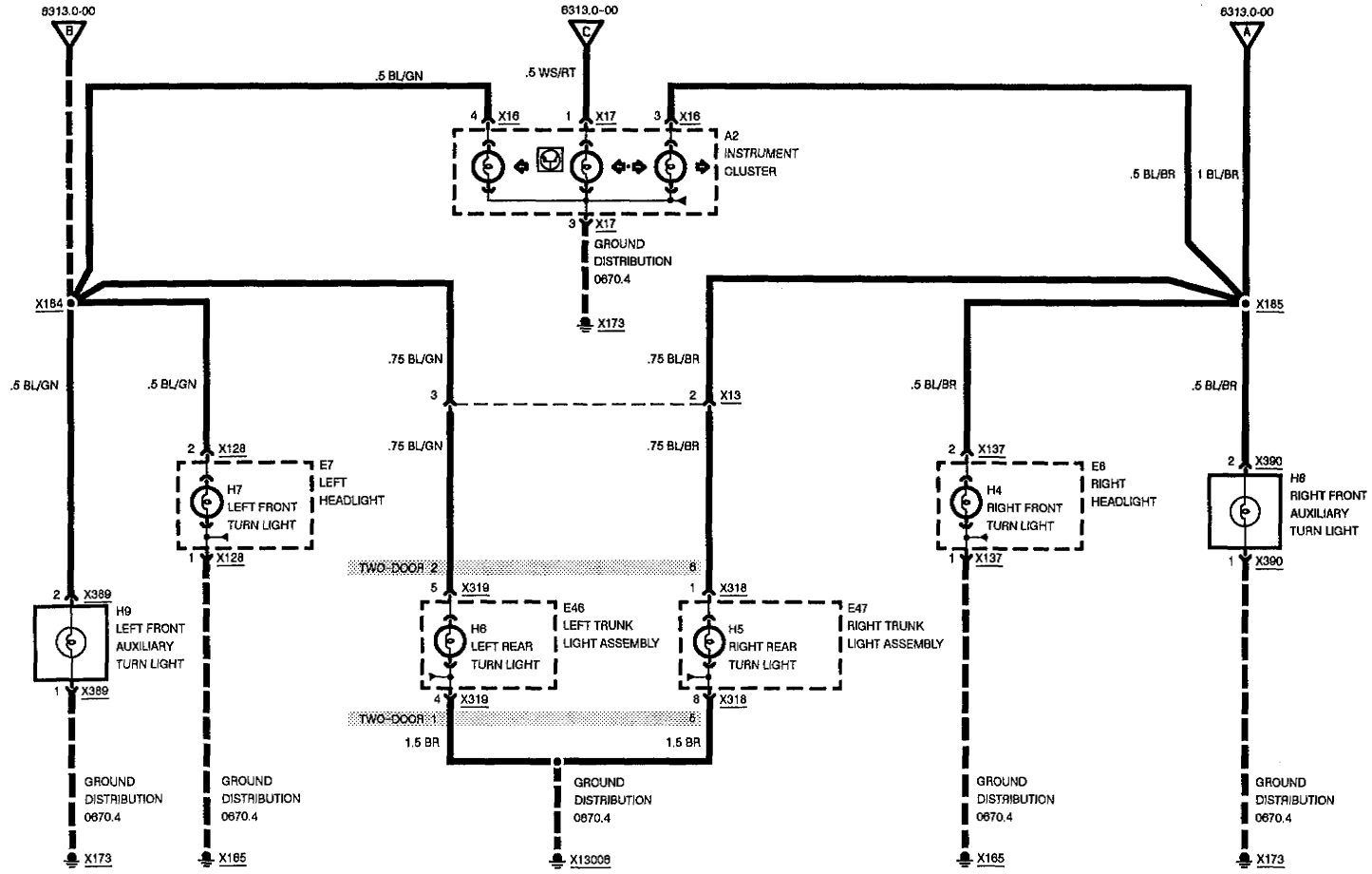


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TURN/HAZARD LIGHTS

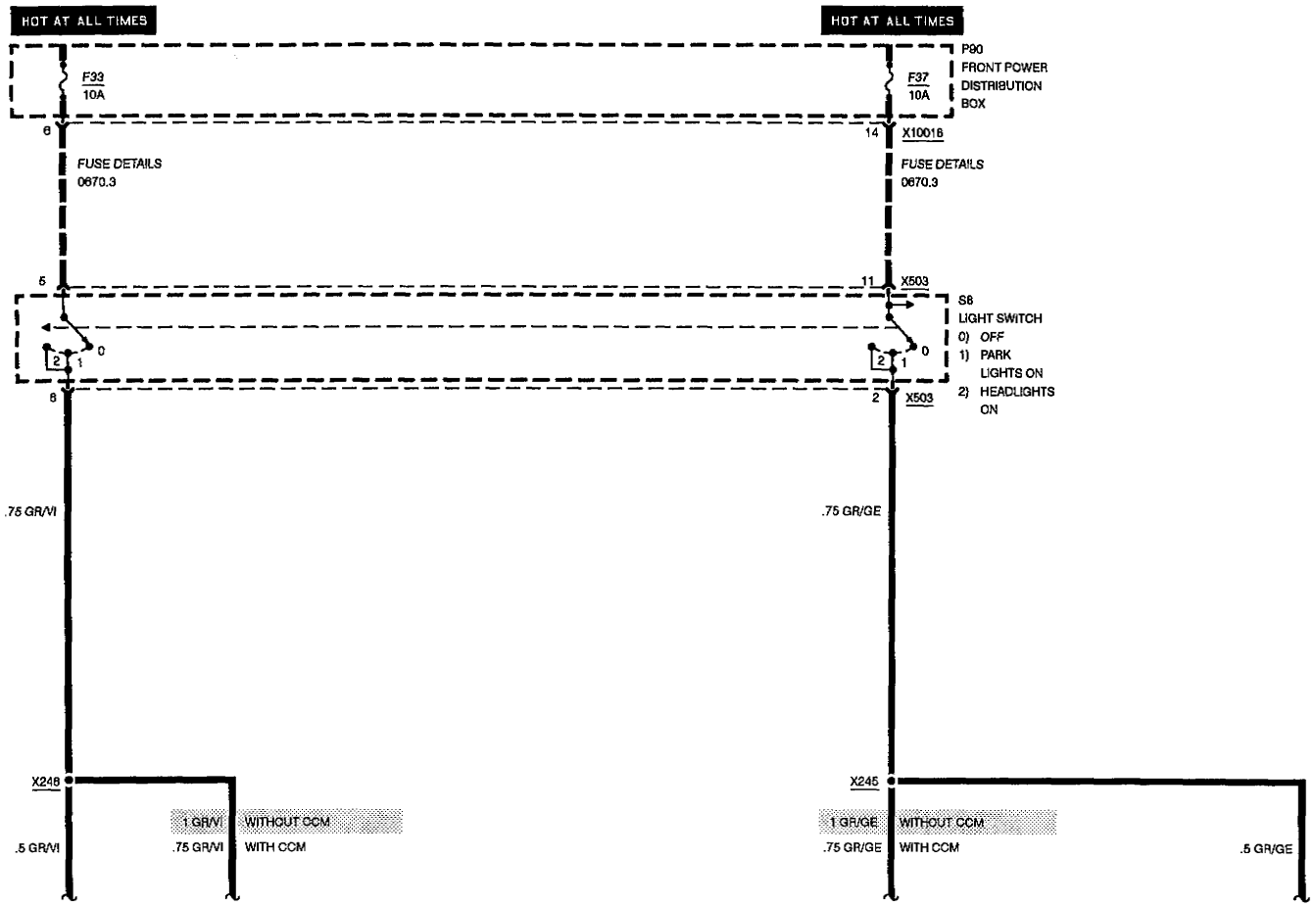


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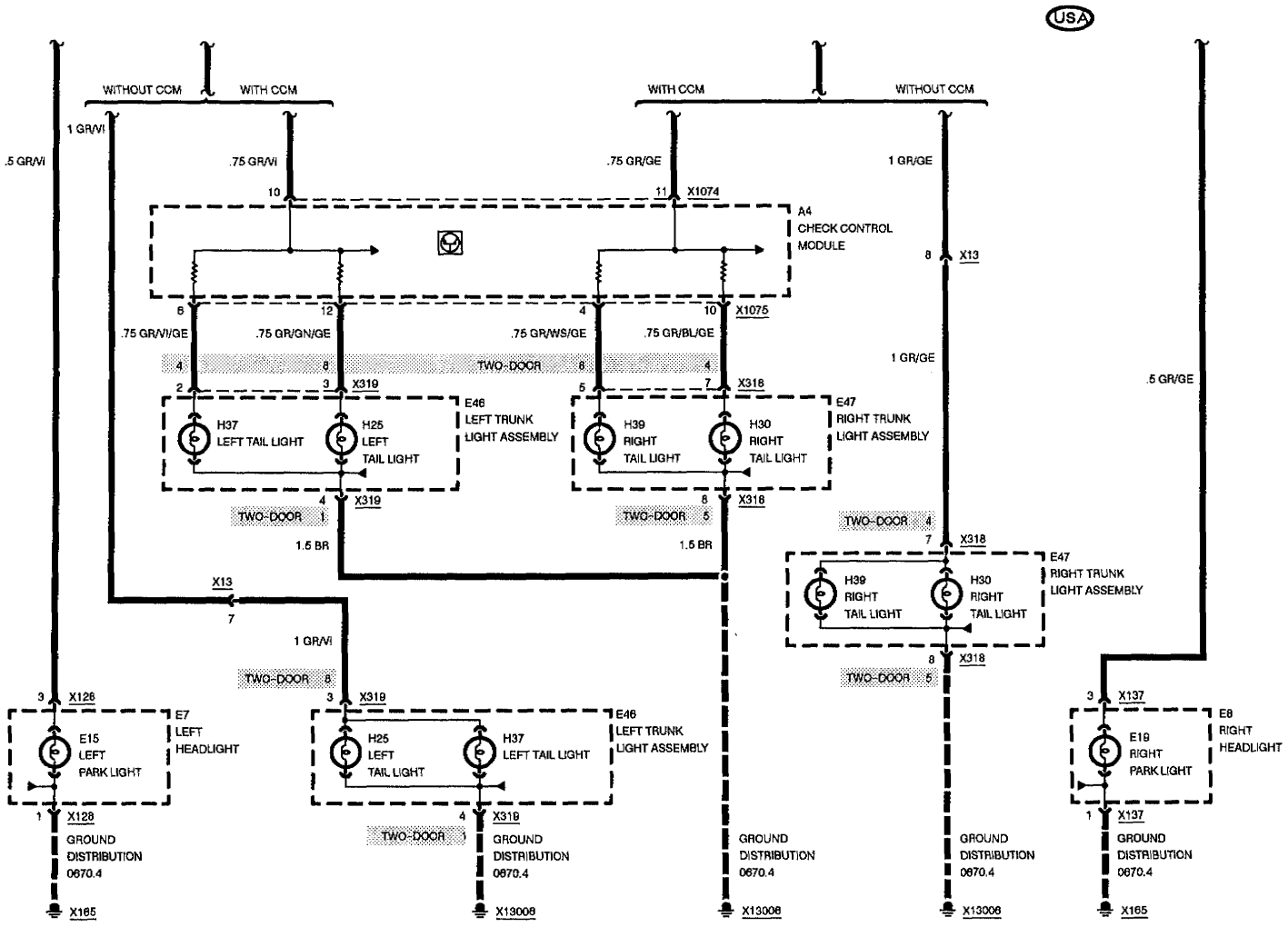
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PARK/TAIL LIGHTS

USA



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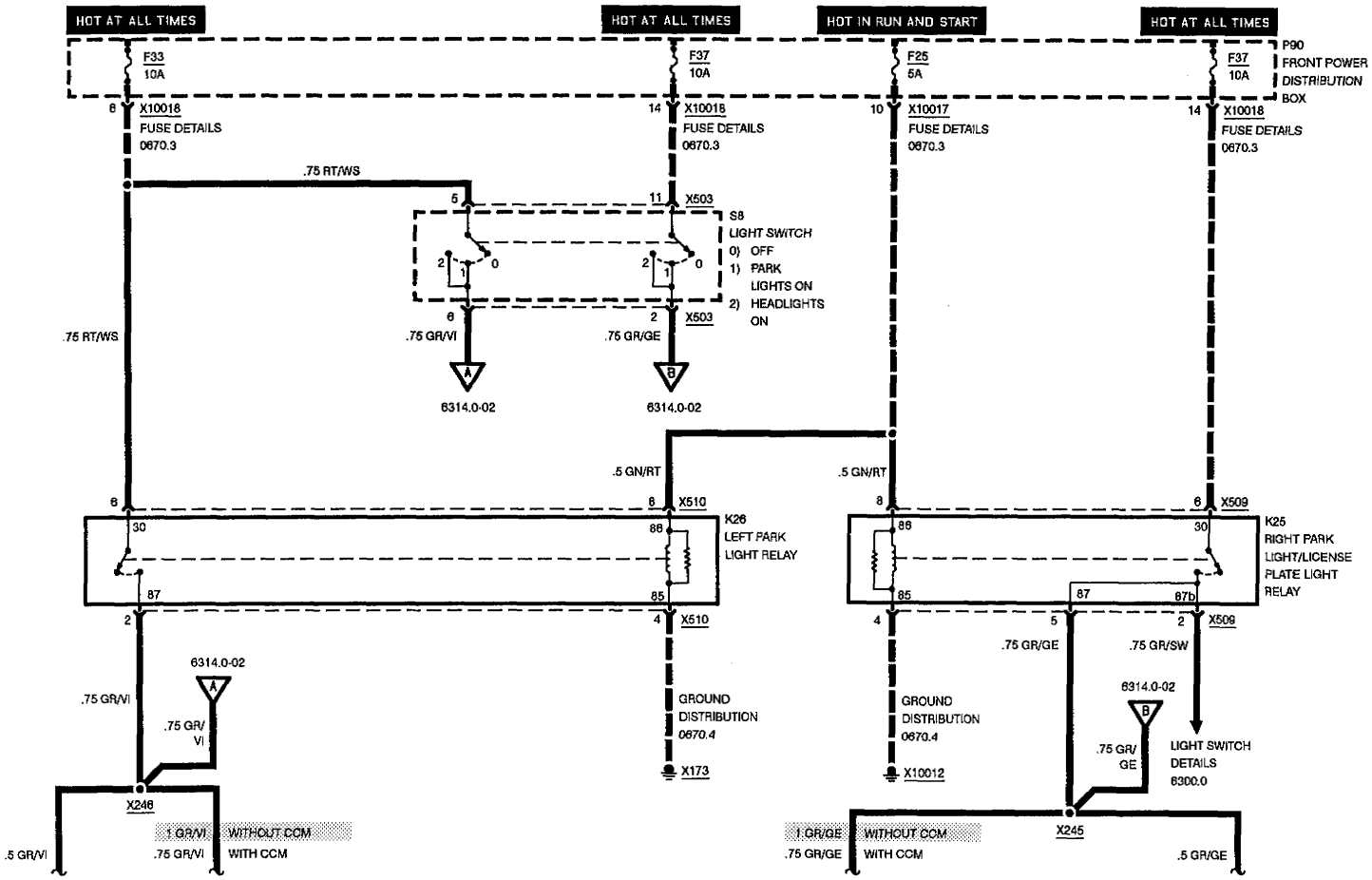


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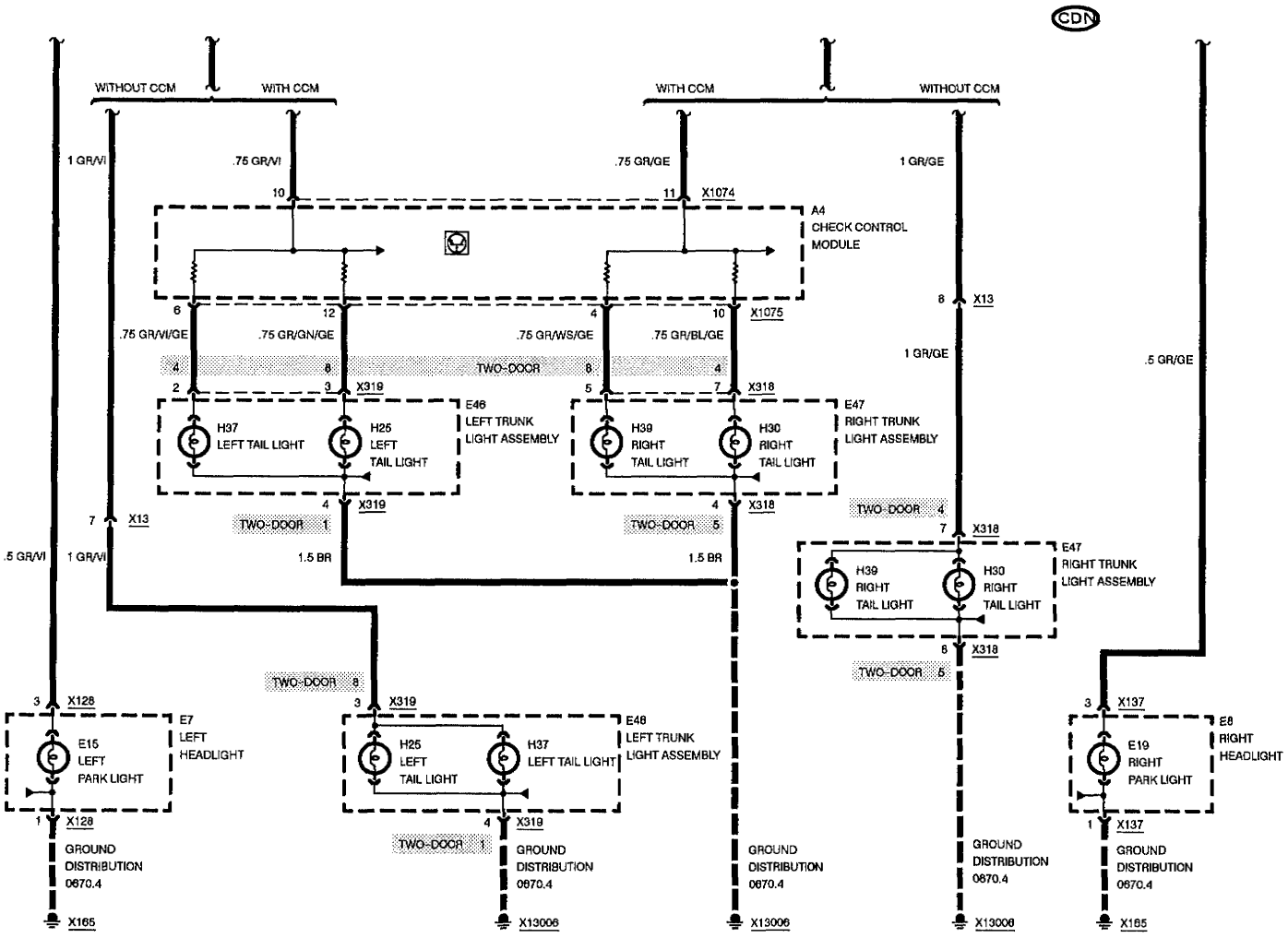
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PARK/TAIL LIGHTS

CDN

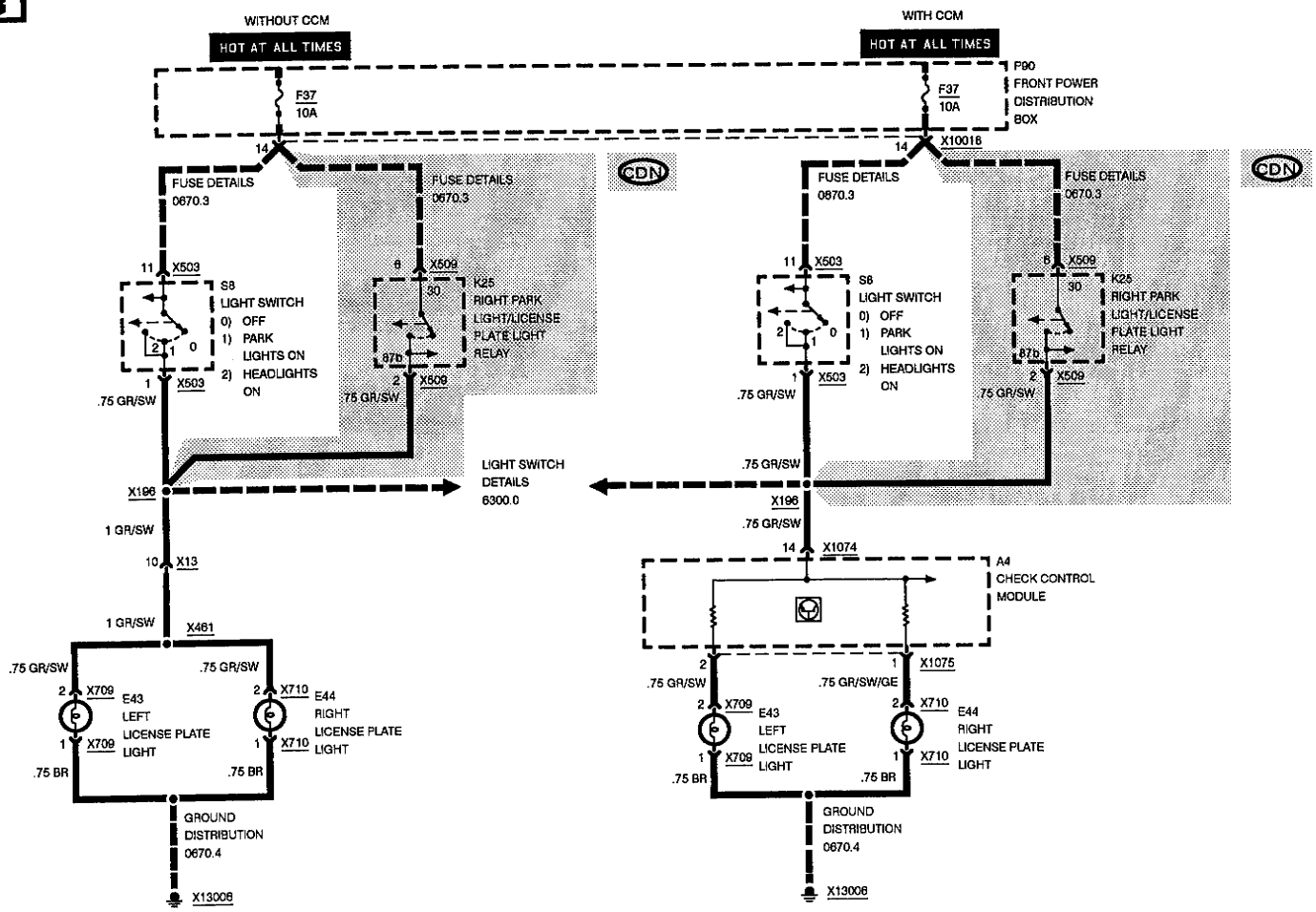


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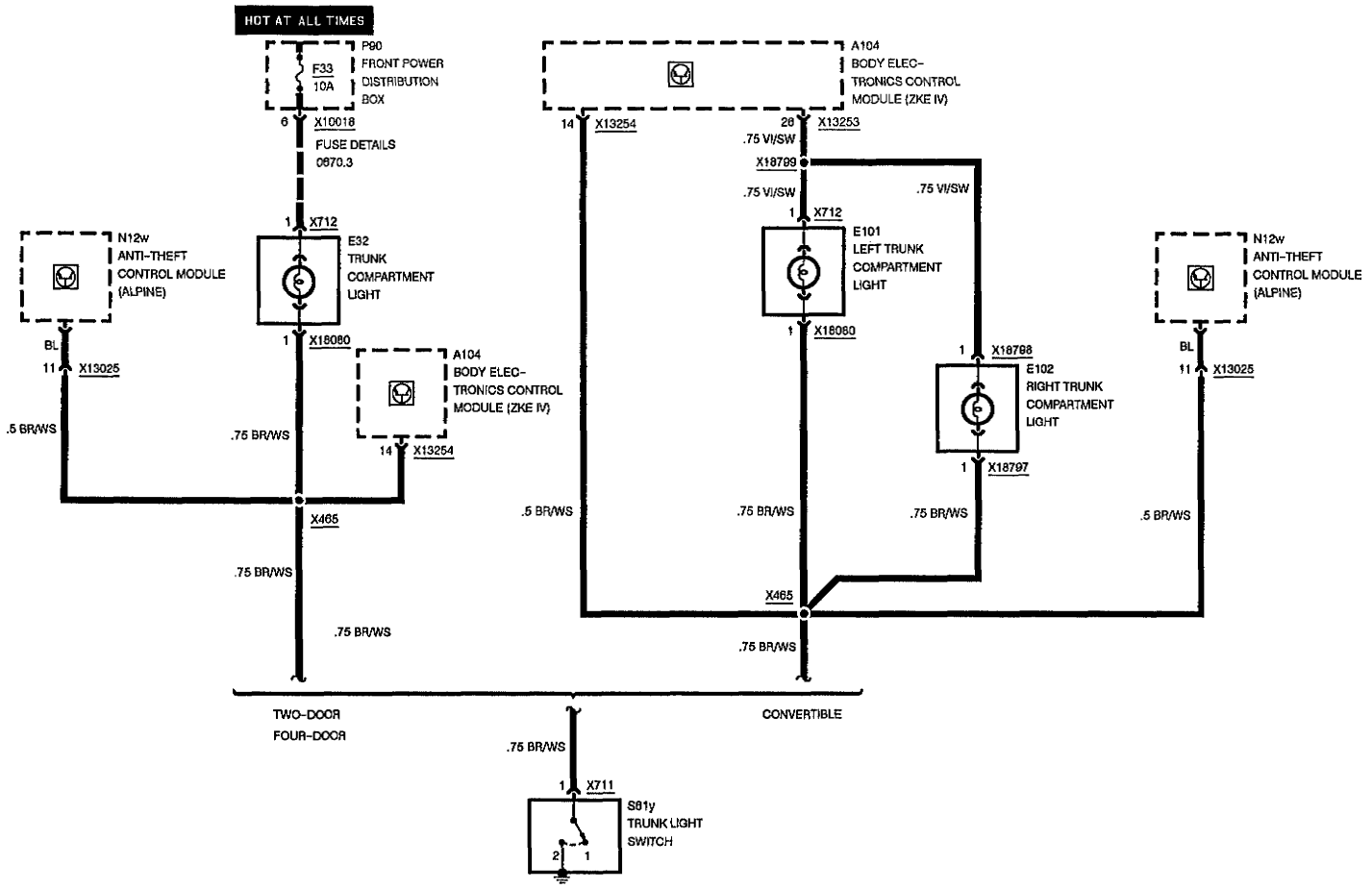
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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS



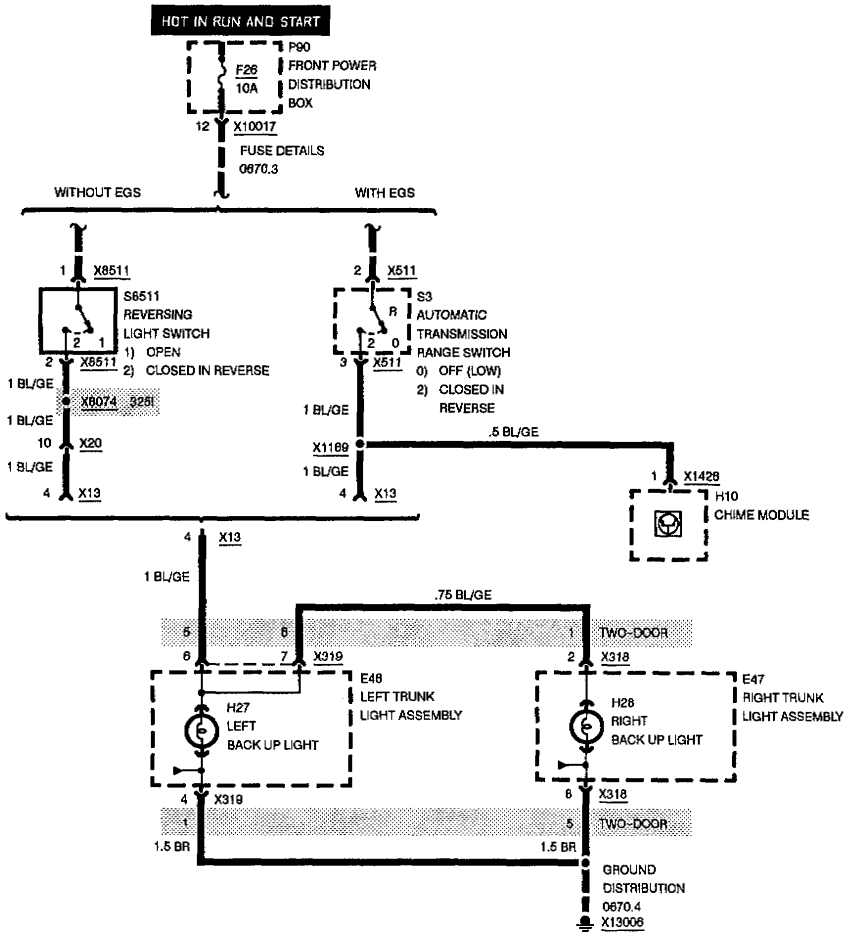
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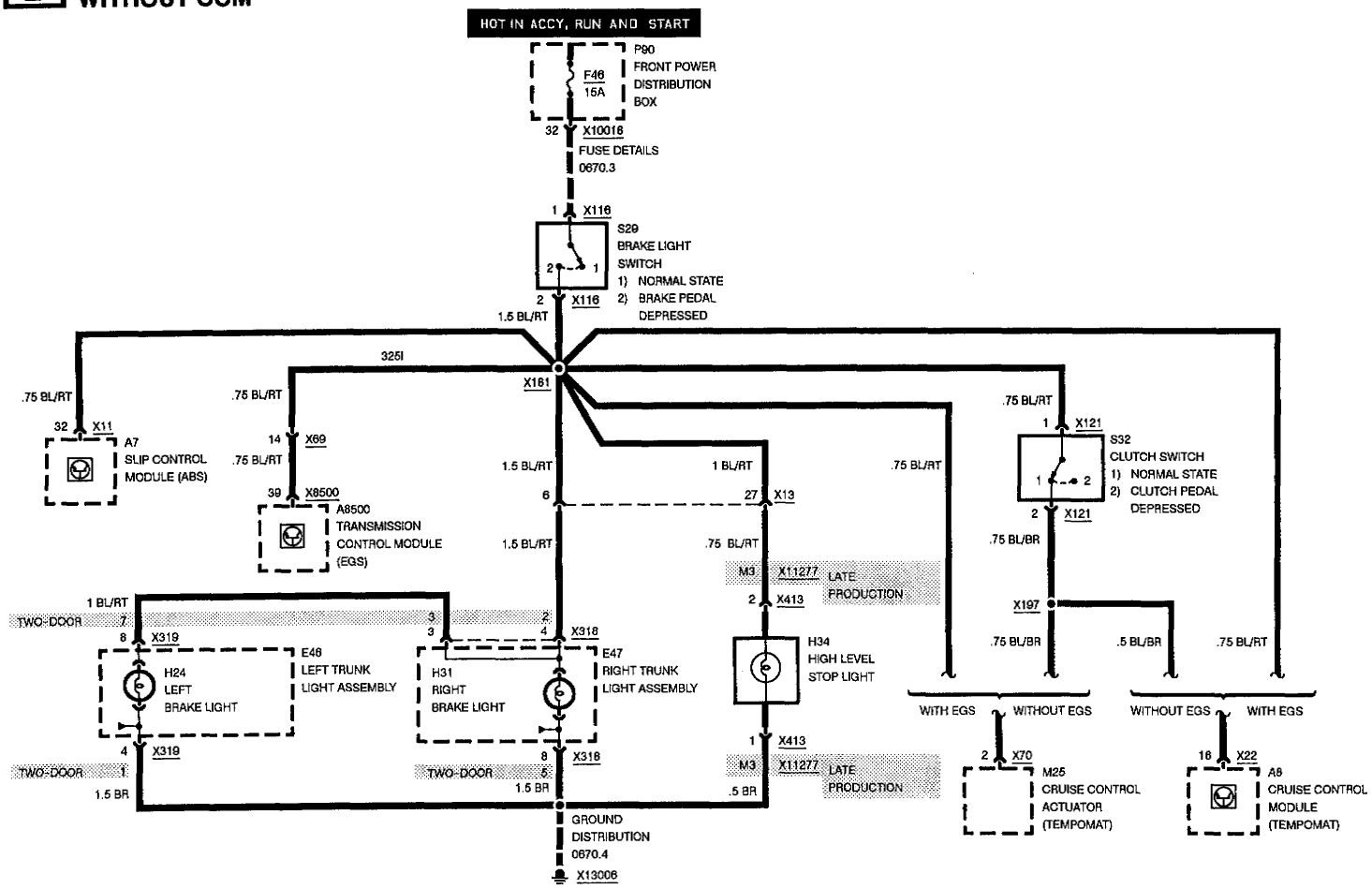
BACK UP LIGHTS



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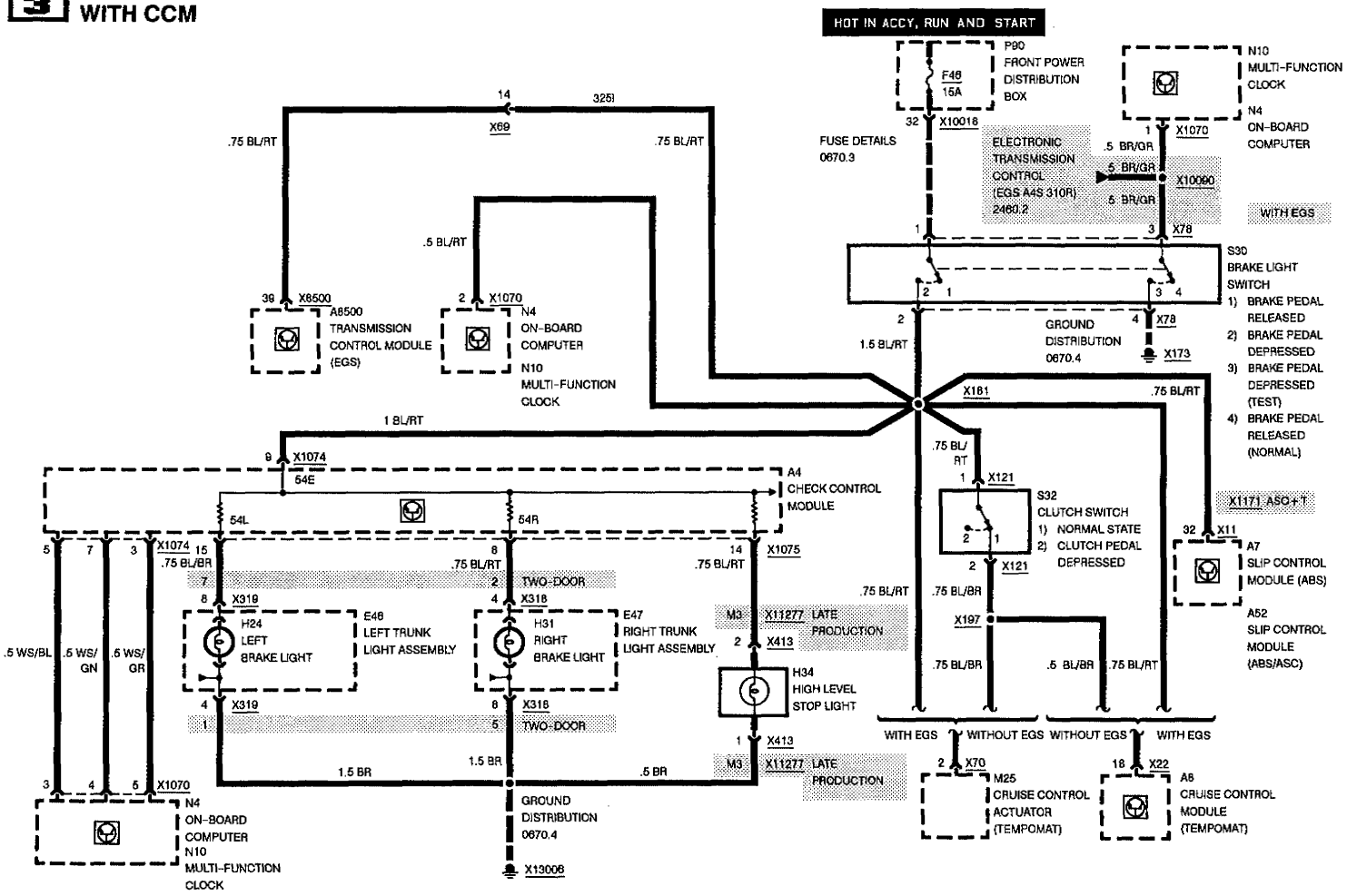
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BRAKE LIGHTS
WITHOUT CCM



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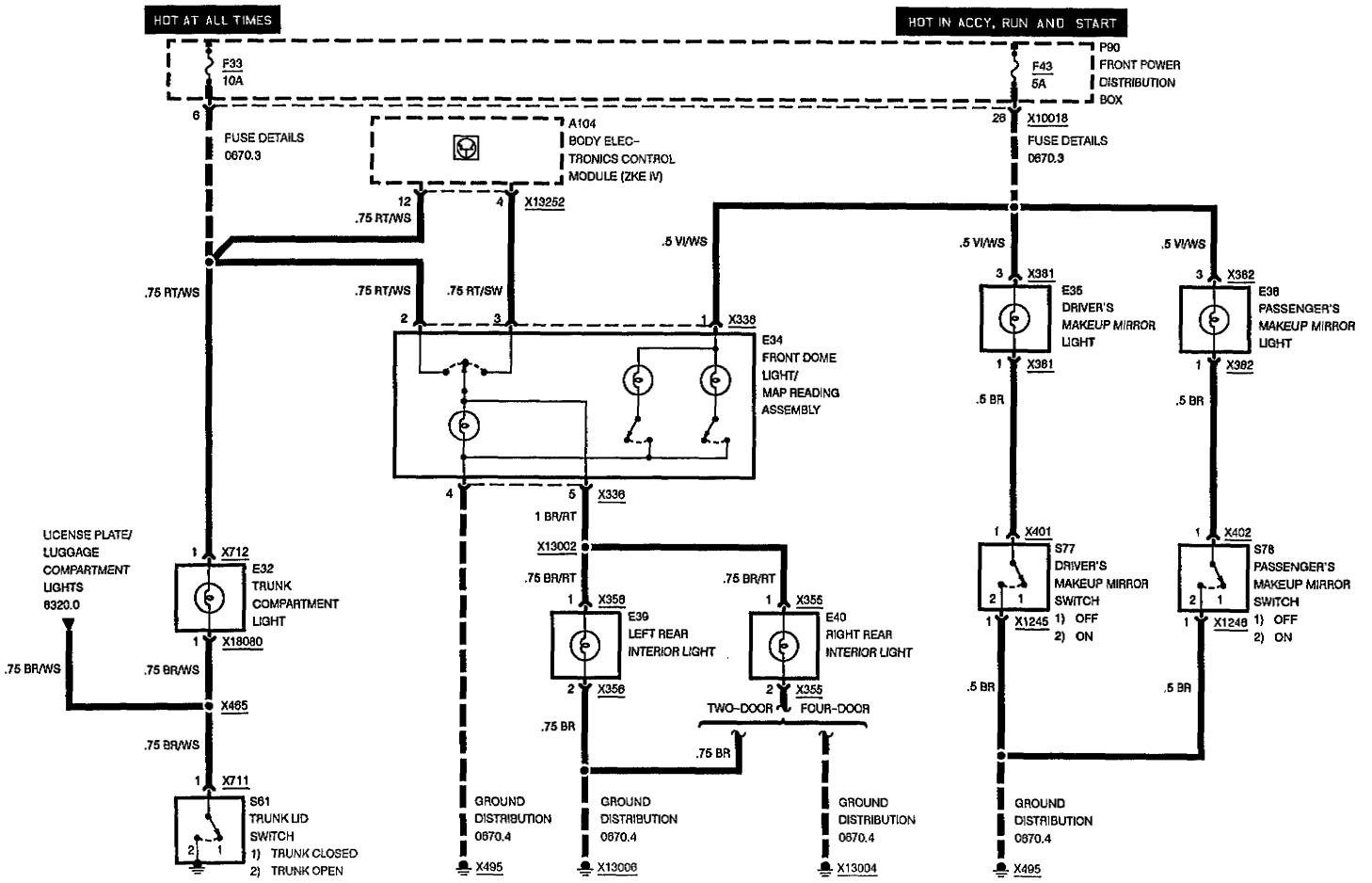
BRAKE LIGHTS
WITH CCM



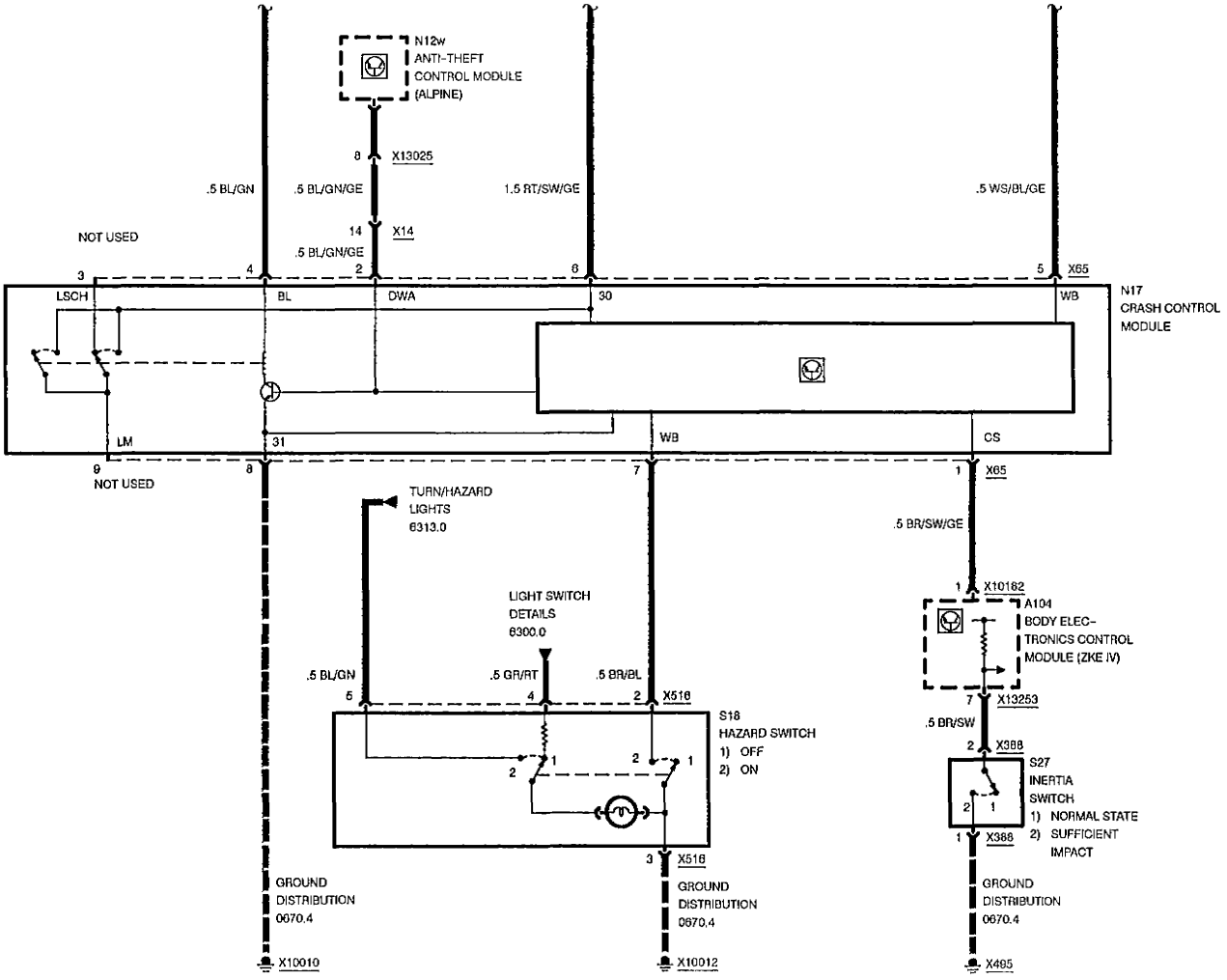
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INTERIOR LIGHTS

TWO DOOR/FOUR DOOR

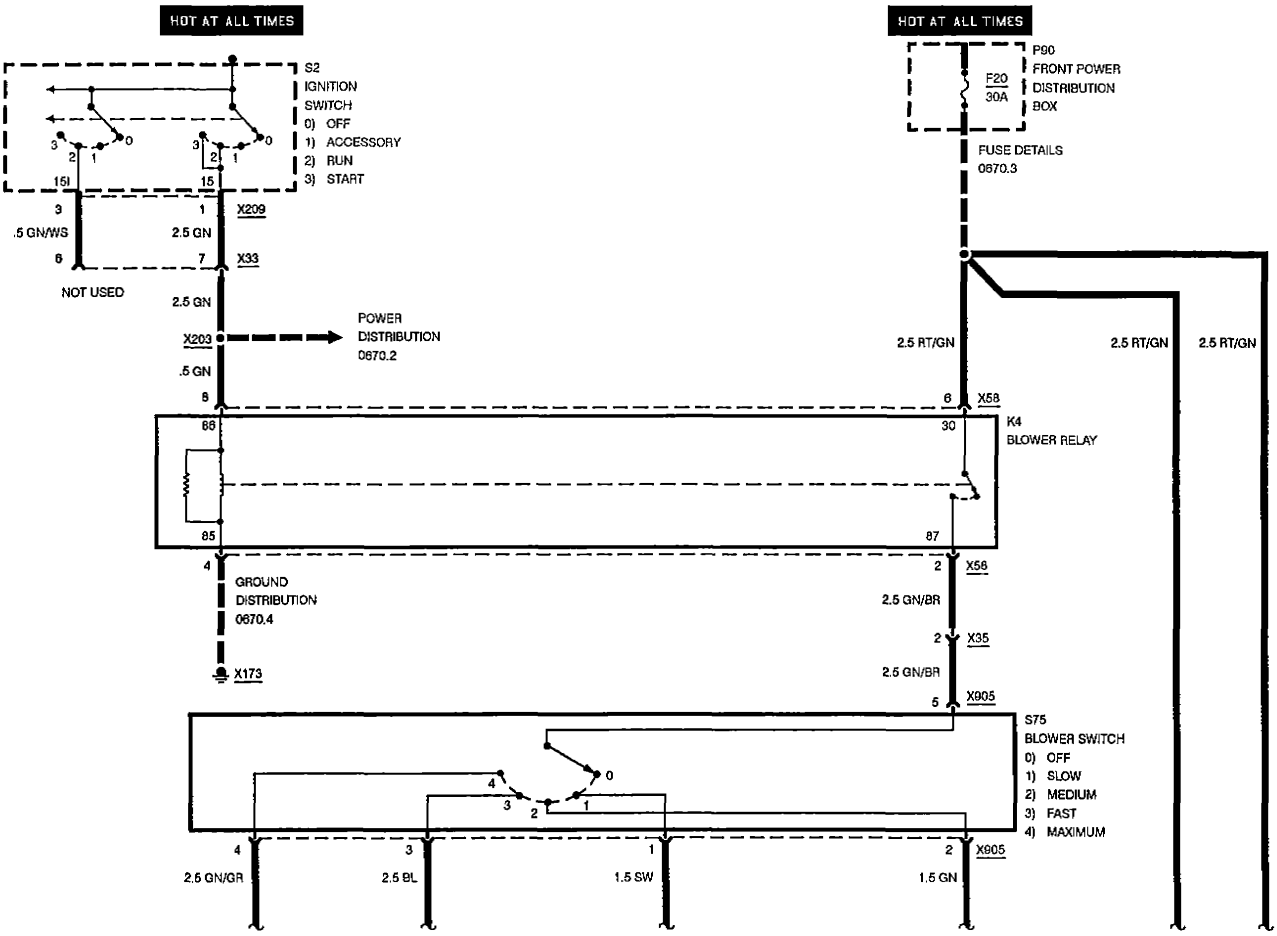


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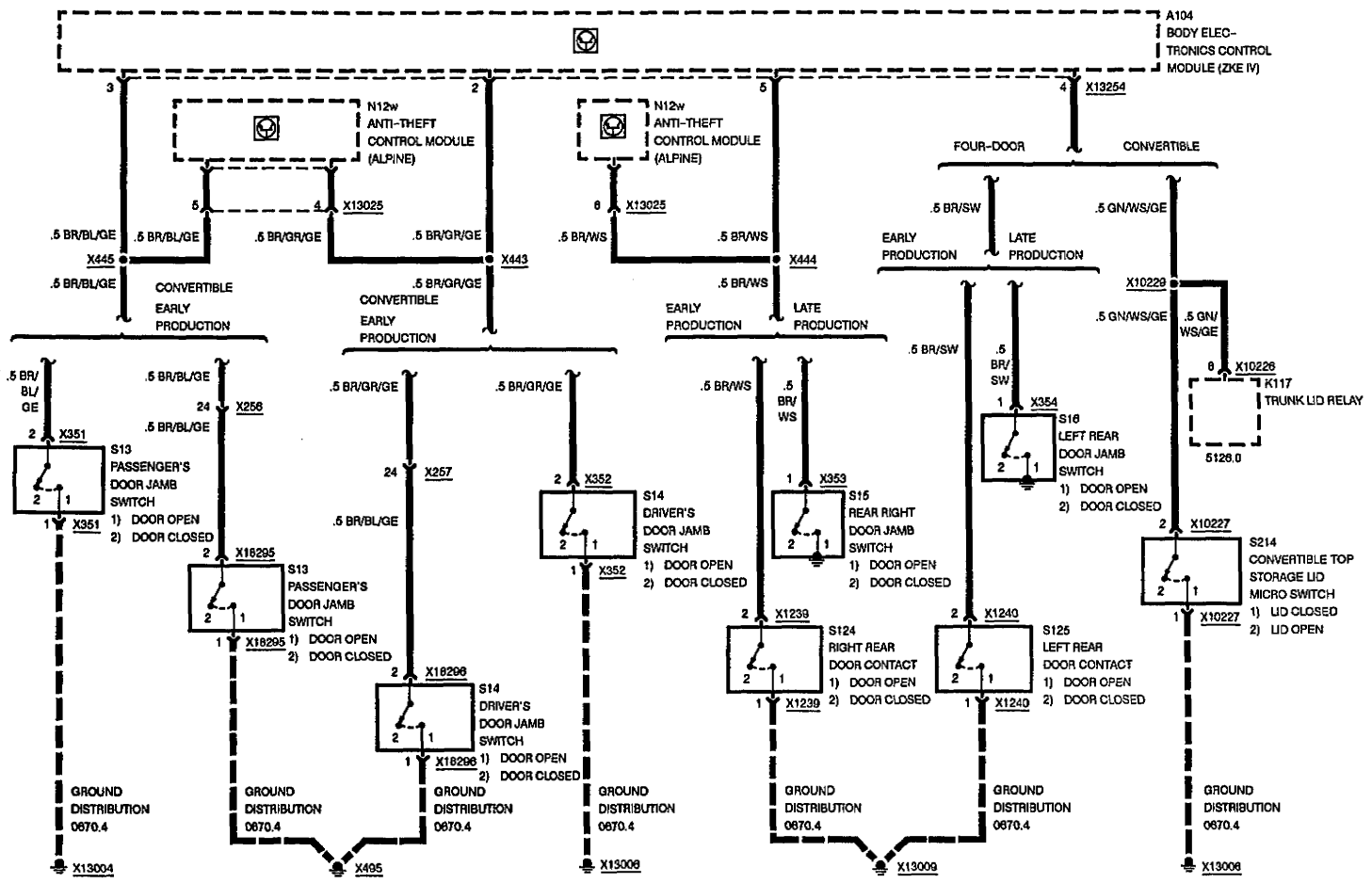
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PARK VENTILATION WITH IHKR



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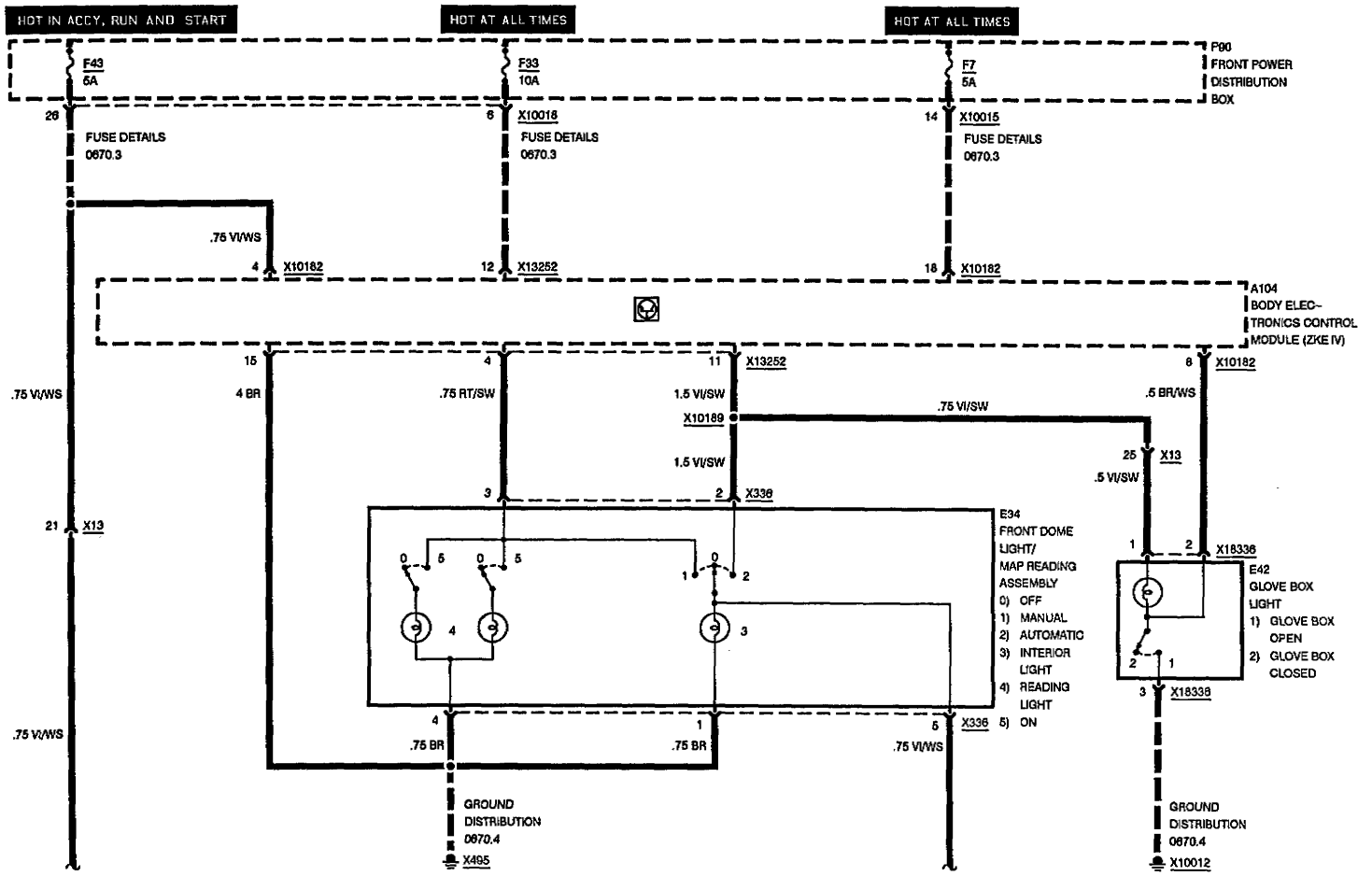
BMW 3 INTERIOR LIGHTS



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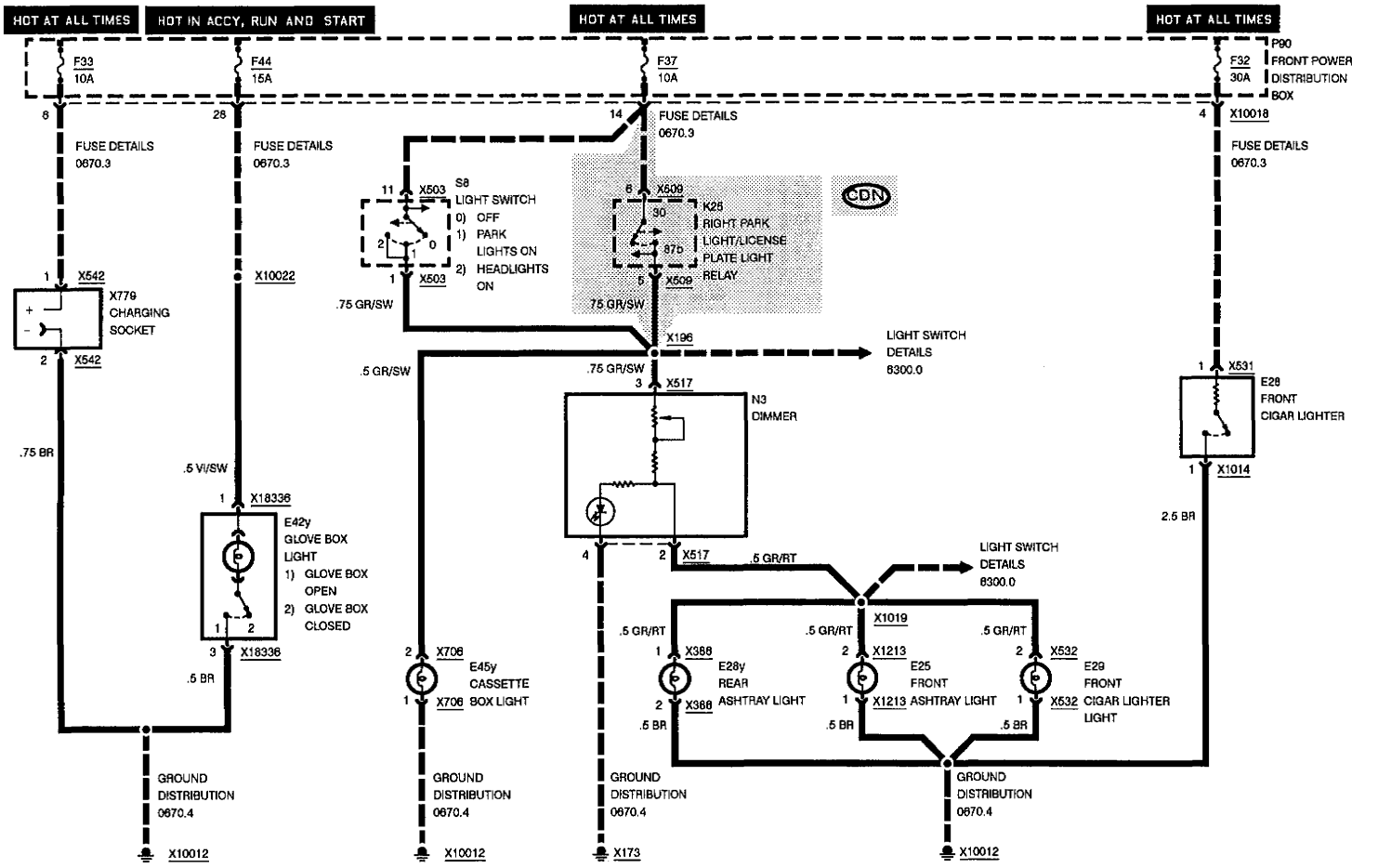
INTERIOR LIGHTS

CONVERTIBLE

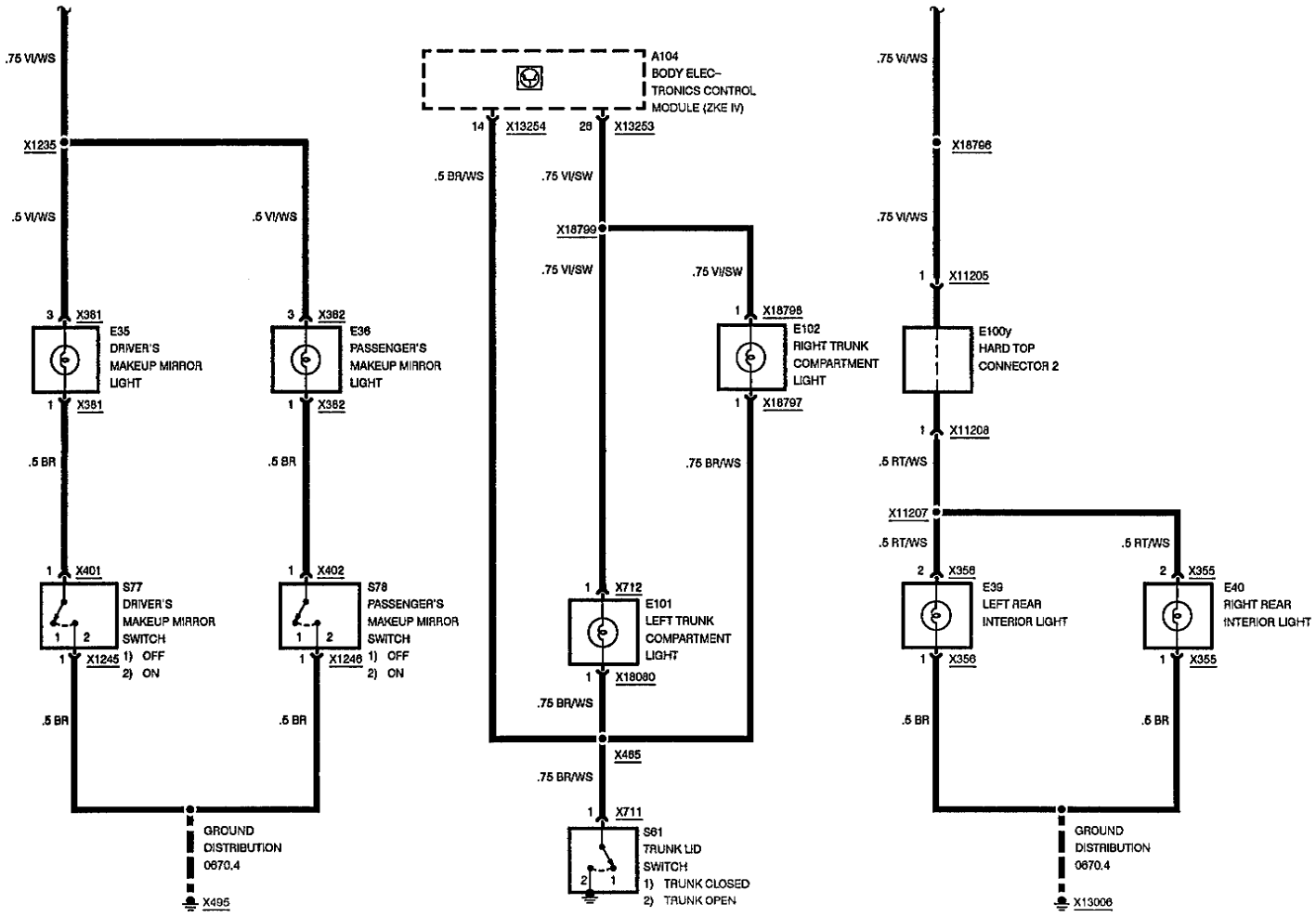


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GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER



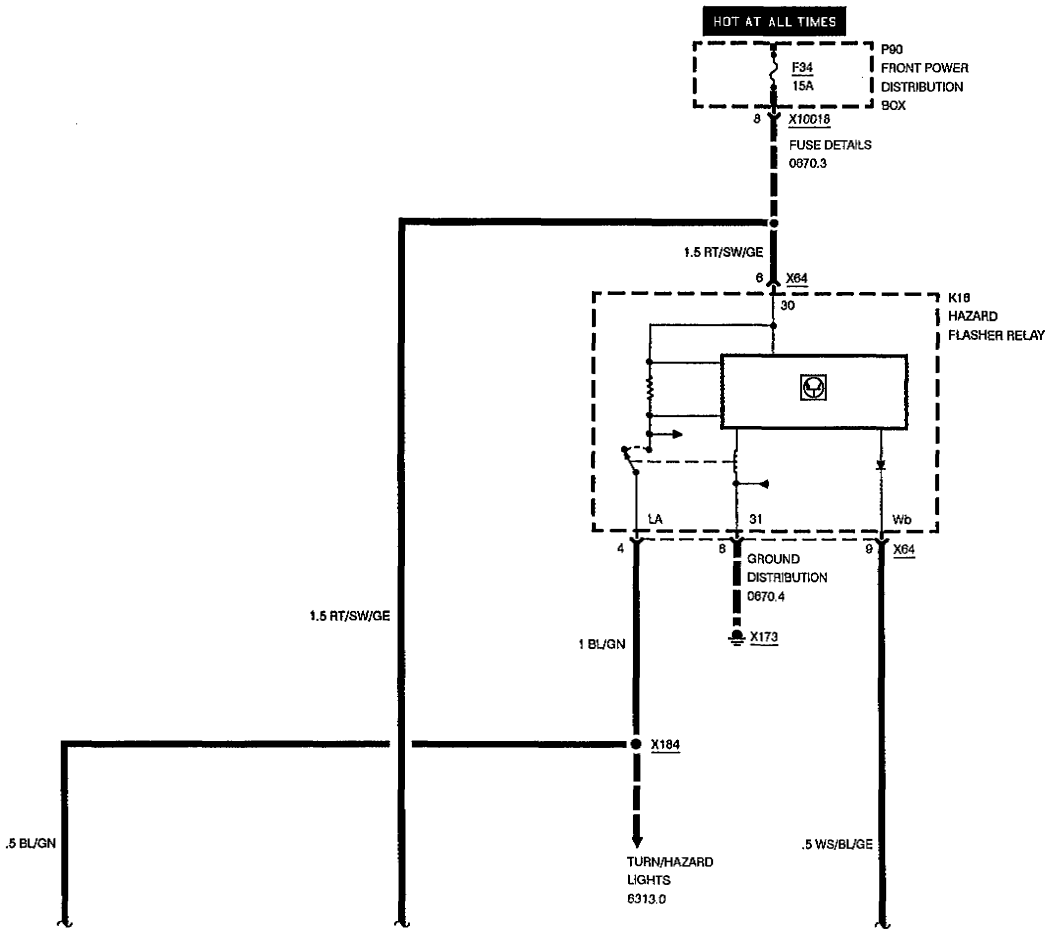
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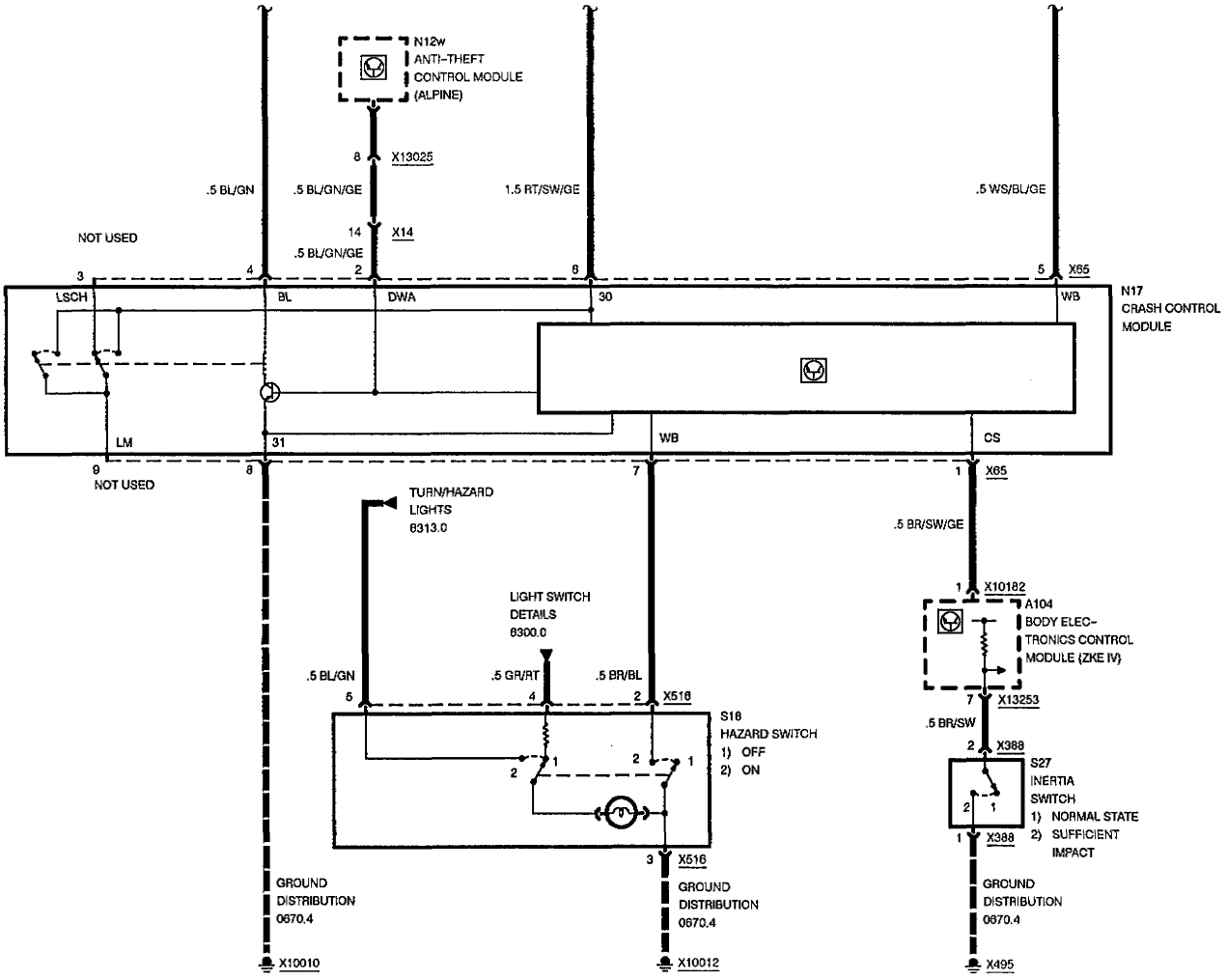
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CRASH CONTROL MODULE

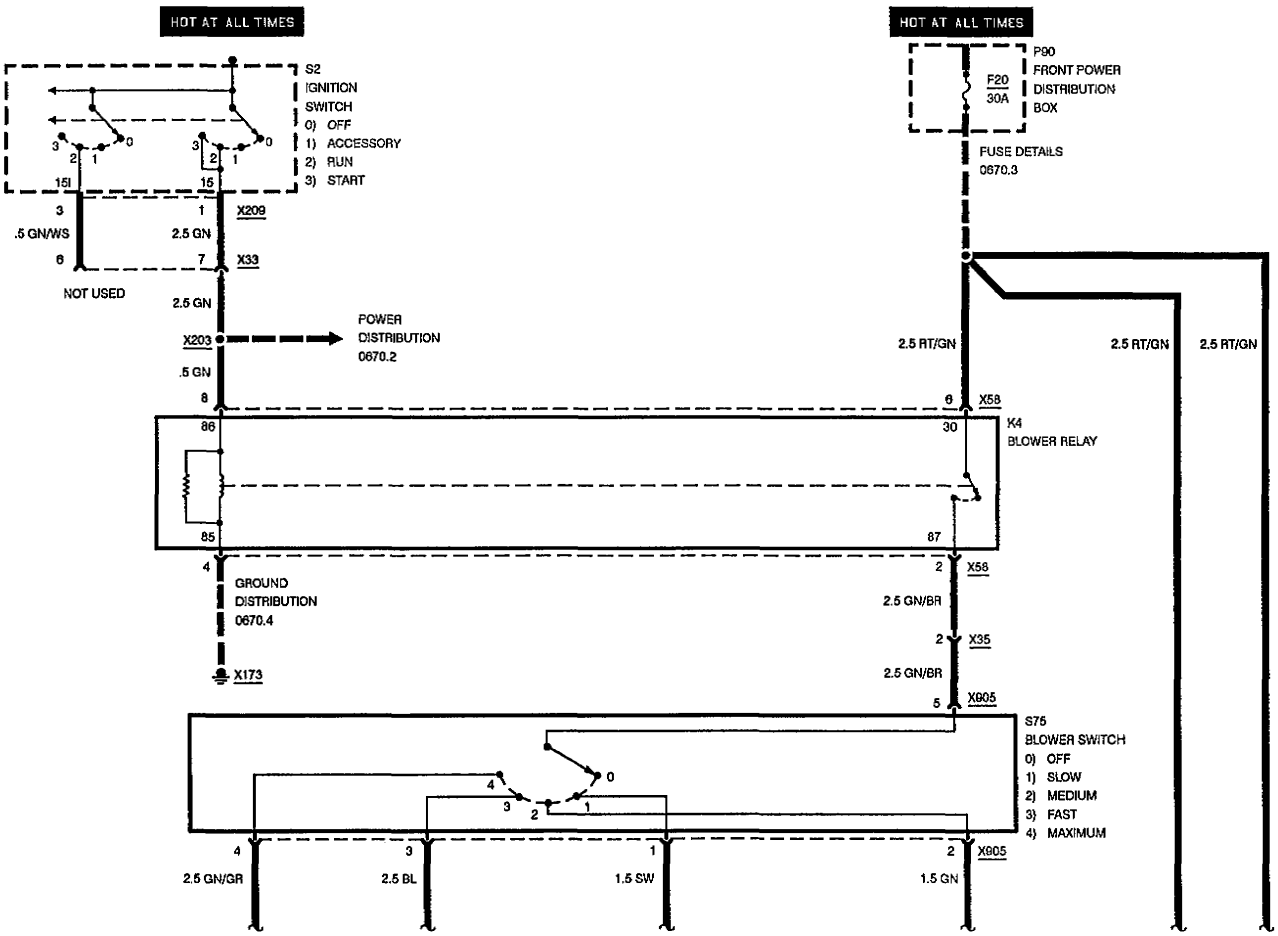


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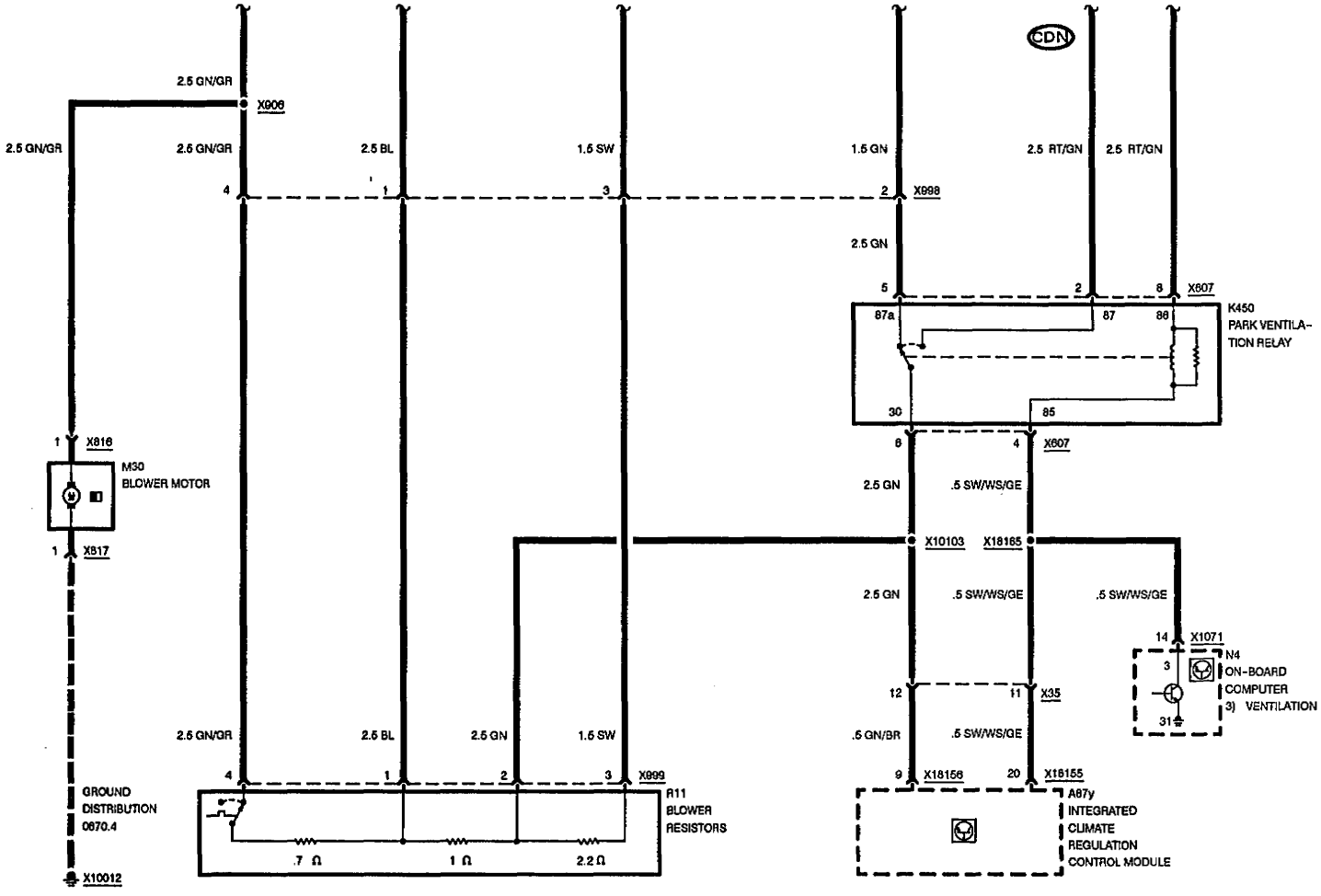


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PARK VENTILATION WITH IHKR

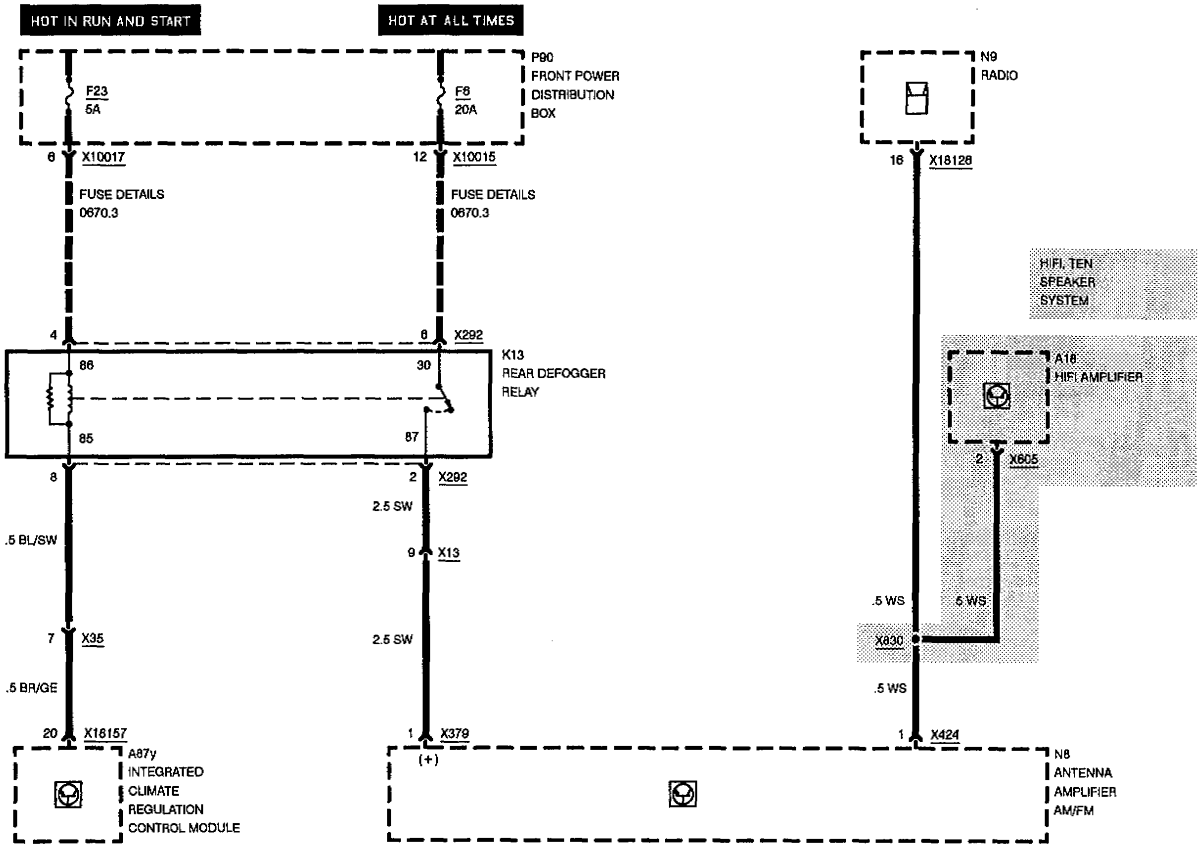


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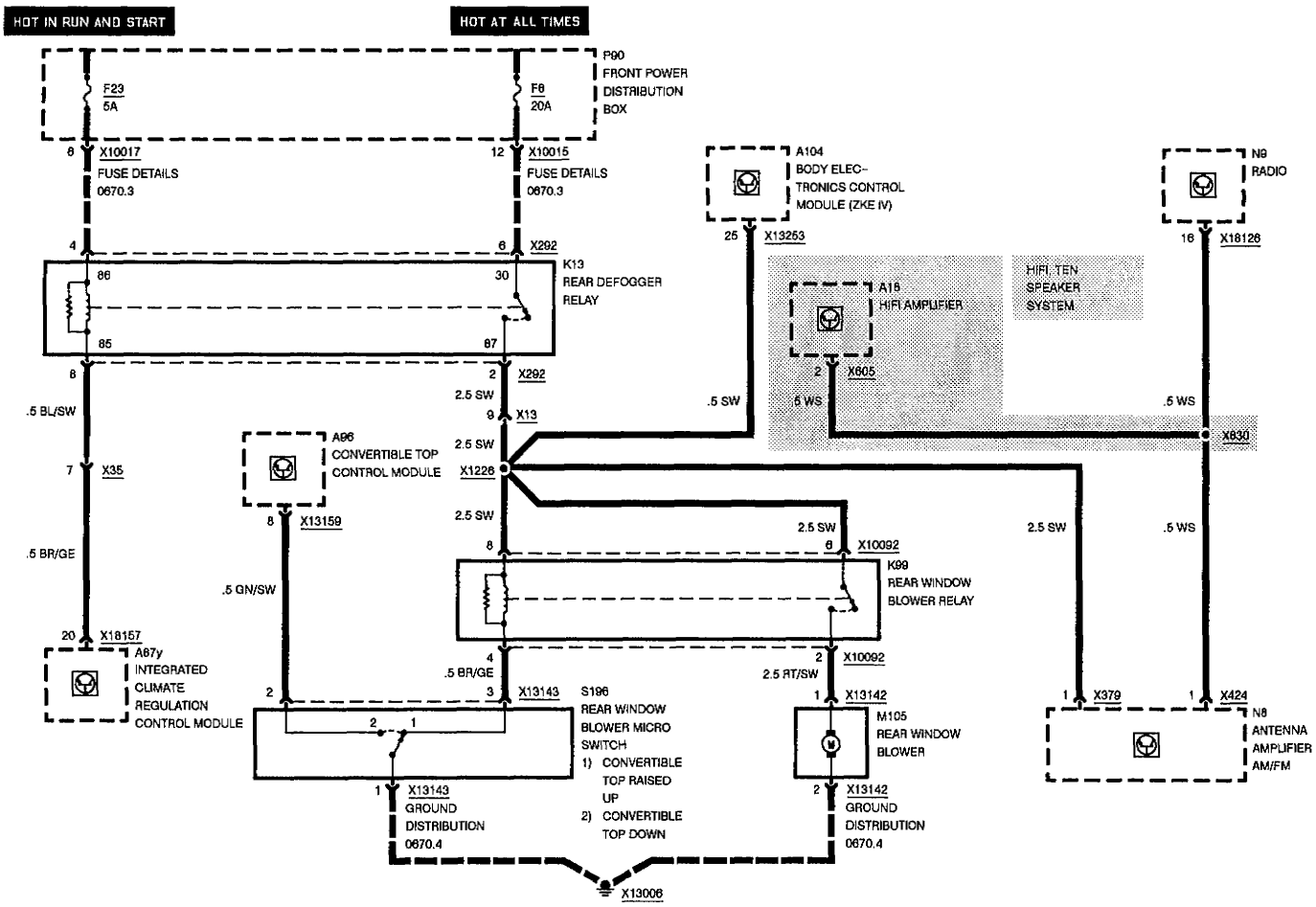
REAR WINDOW DEFOGGER



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REAR WINDOW DEFOGGER

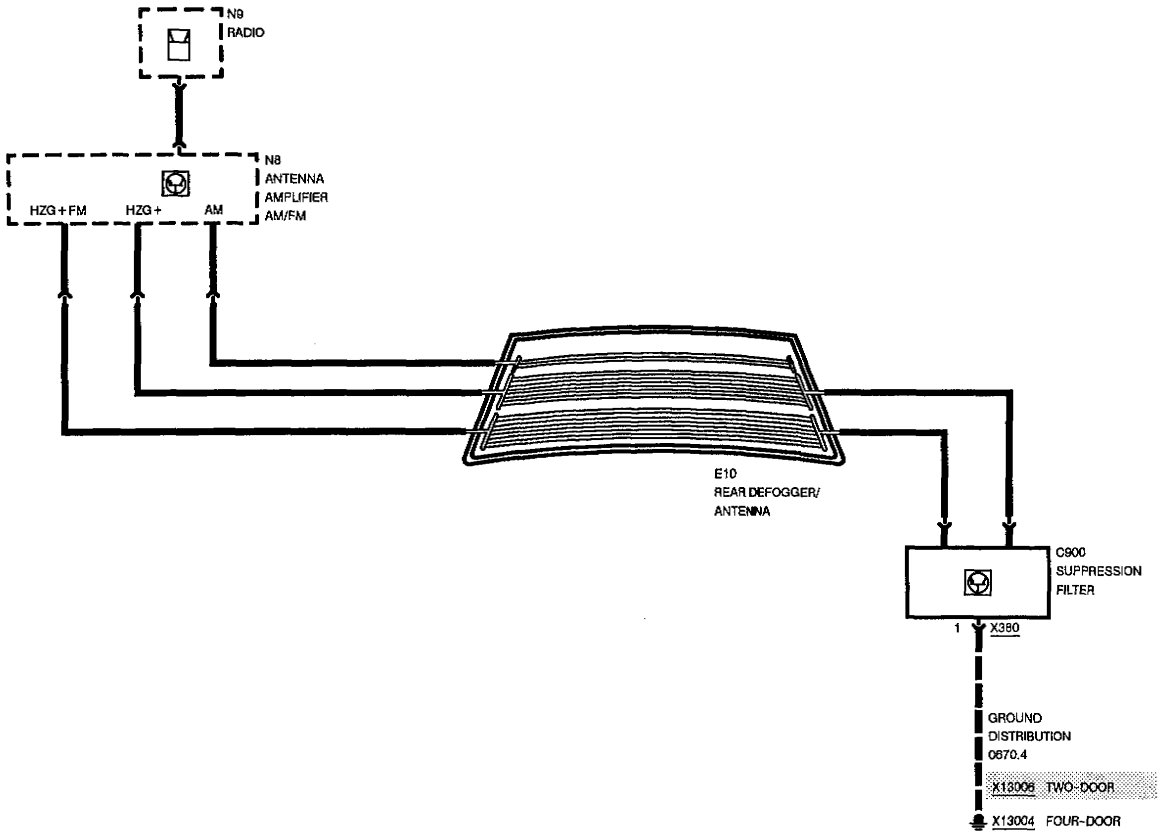
CONVERTIBLE



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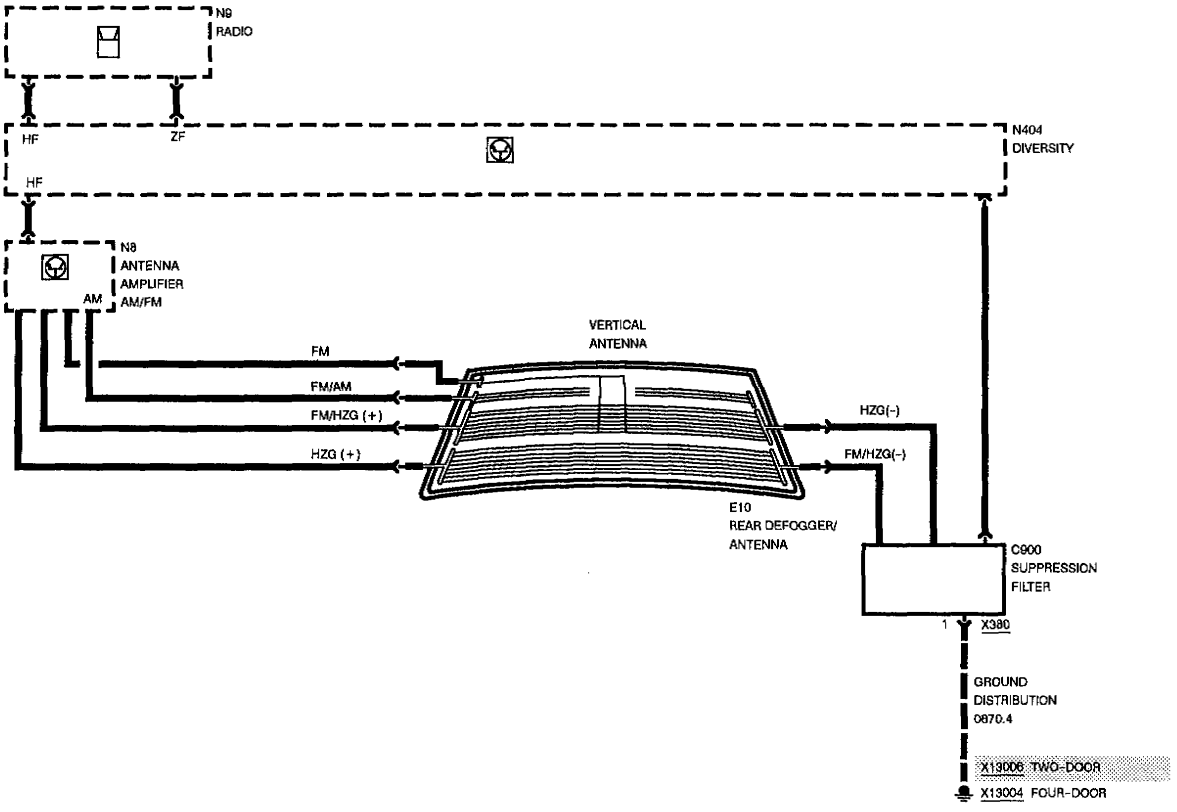
REAR WINDOW ANTENNA



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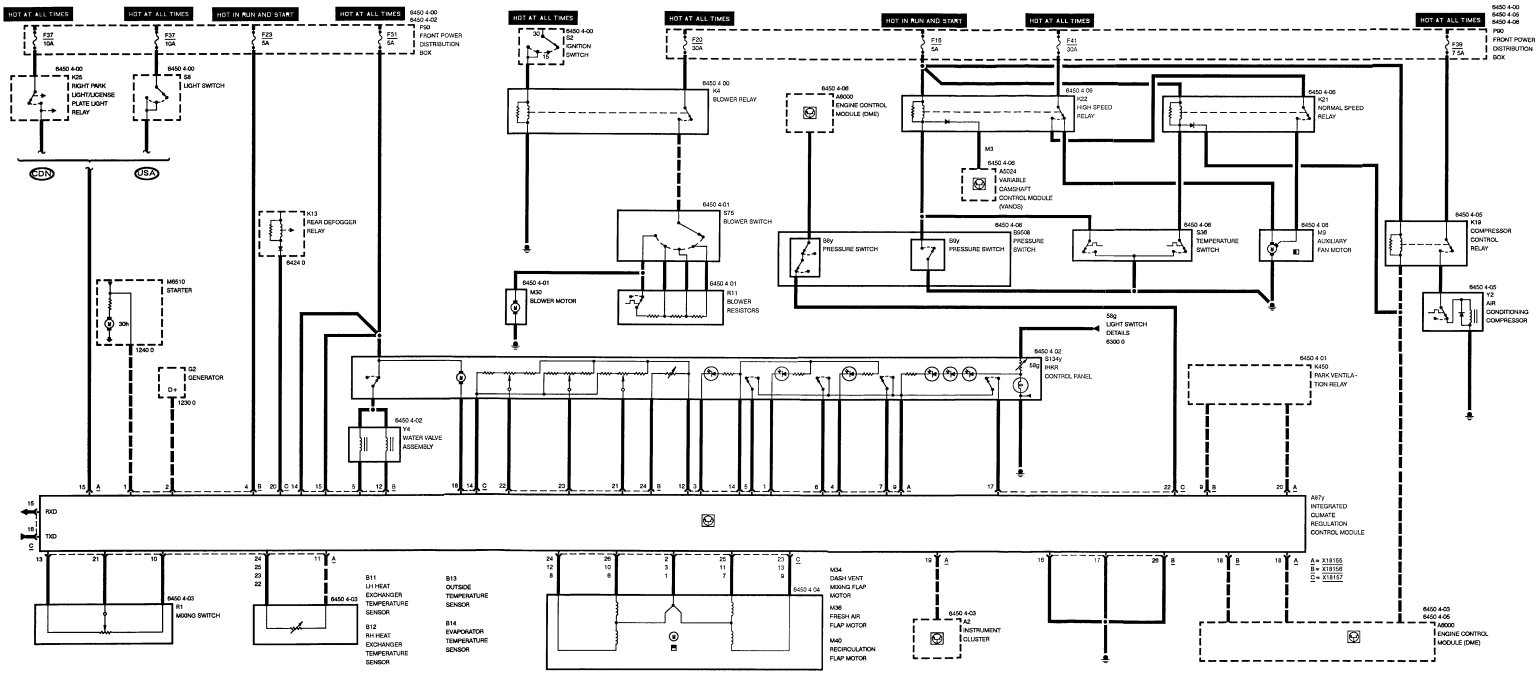
REAR WINDOW DEFOGGER

3-ANTENNA-DIVERSITY

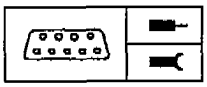


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Pin Assignments

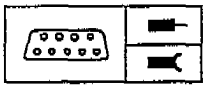
A = X18155	26 Pins, white
B = X18156	26 Pins, black
C = X18157	26 Pins, blue

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	A	Ground for mixing actuator	Mixing actuator
11	A	Ground for temperature sensors	Various temperature sensors
12	A	Ground for rotary switches and interior temperature sensor	IHKR control panel
13	A	Voltage supply for mixing actuator	Mixing actuator
14	E	Voltage supply for function lights	IHKR control panel
15 (USA)	E	Terminal 58K	Light switch
(CDN)	E	Terminal 58K	Right park light/license plate light relay, terminal 87
16		Not used	
17		Not used	
18	E	Crankshaft position/RPM signal TD	Engine control module (DME)
19	A	Vehicle speed	Instrument cluster
20	E	Independent ventilation	Park heating/ventilation relay
21	E	Nominal mixing value	Mixing actuator
22	A/E	Evaporator temperature	Evaporator temperature sensor

E = Input, A = Output, M = Ground

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Pin Assignments

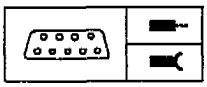
Pin	Type	Description/Function	Connection
23	A/E	Outside temperature	Outside temperature sensor
24	A/E	Heater temperature, left	Left heat exchanger temperature sensor
25	A/E	Heater temperature, right	Right heat exchanger temperature sensor
26		Not used	

X18156

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

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Pin Assignments

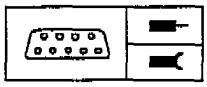
Pin	Type	Description/Function	Connection
24	A/E	Interior temperature sensor	IHKR control panel
25		Not used	
26	M	Ground for electronics	Ground

X18157

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

E = Input, A = Output, M = Ground

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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

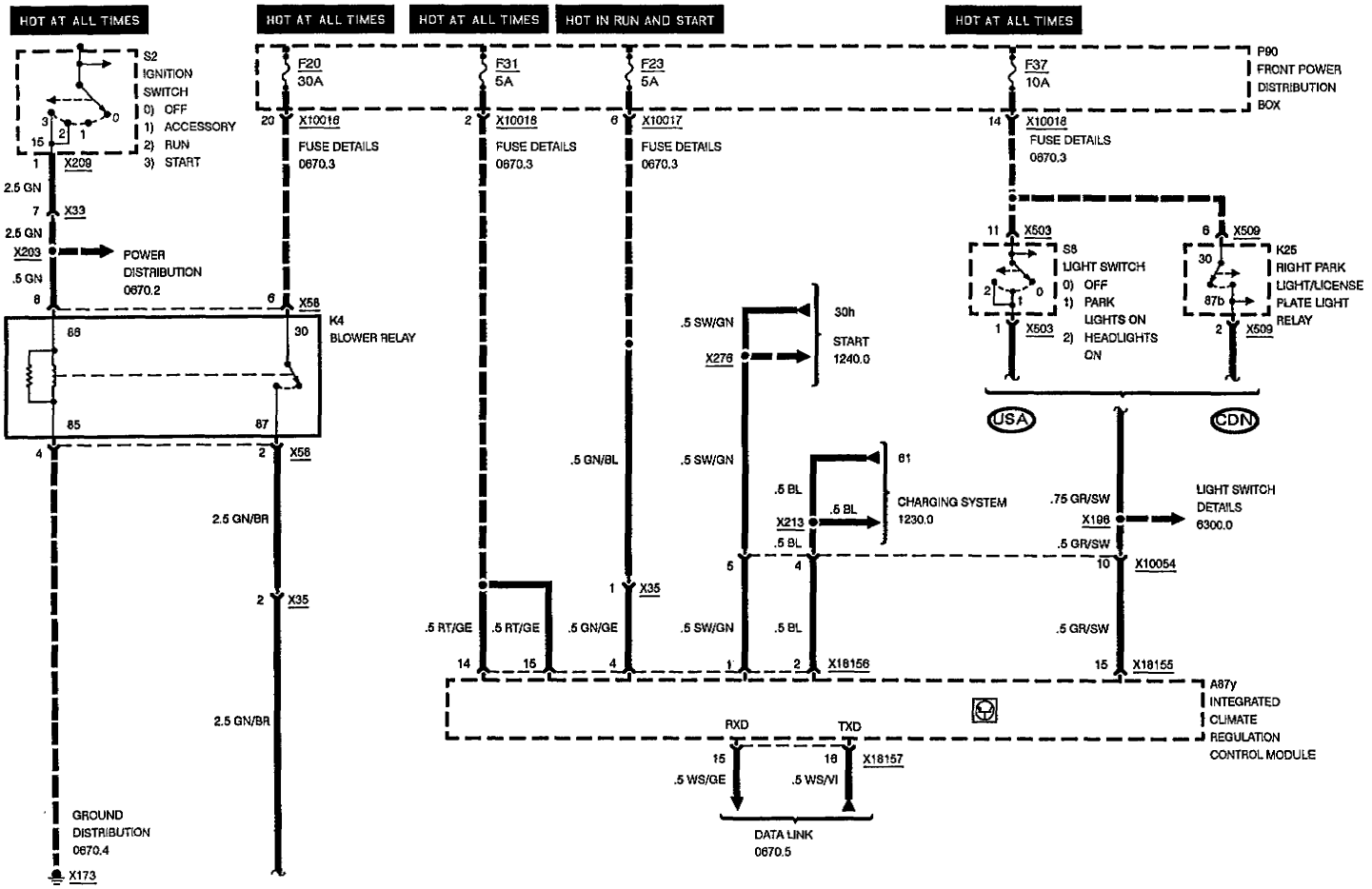
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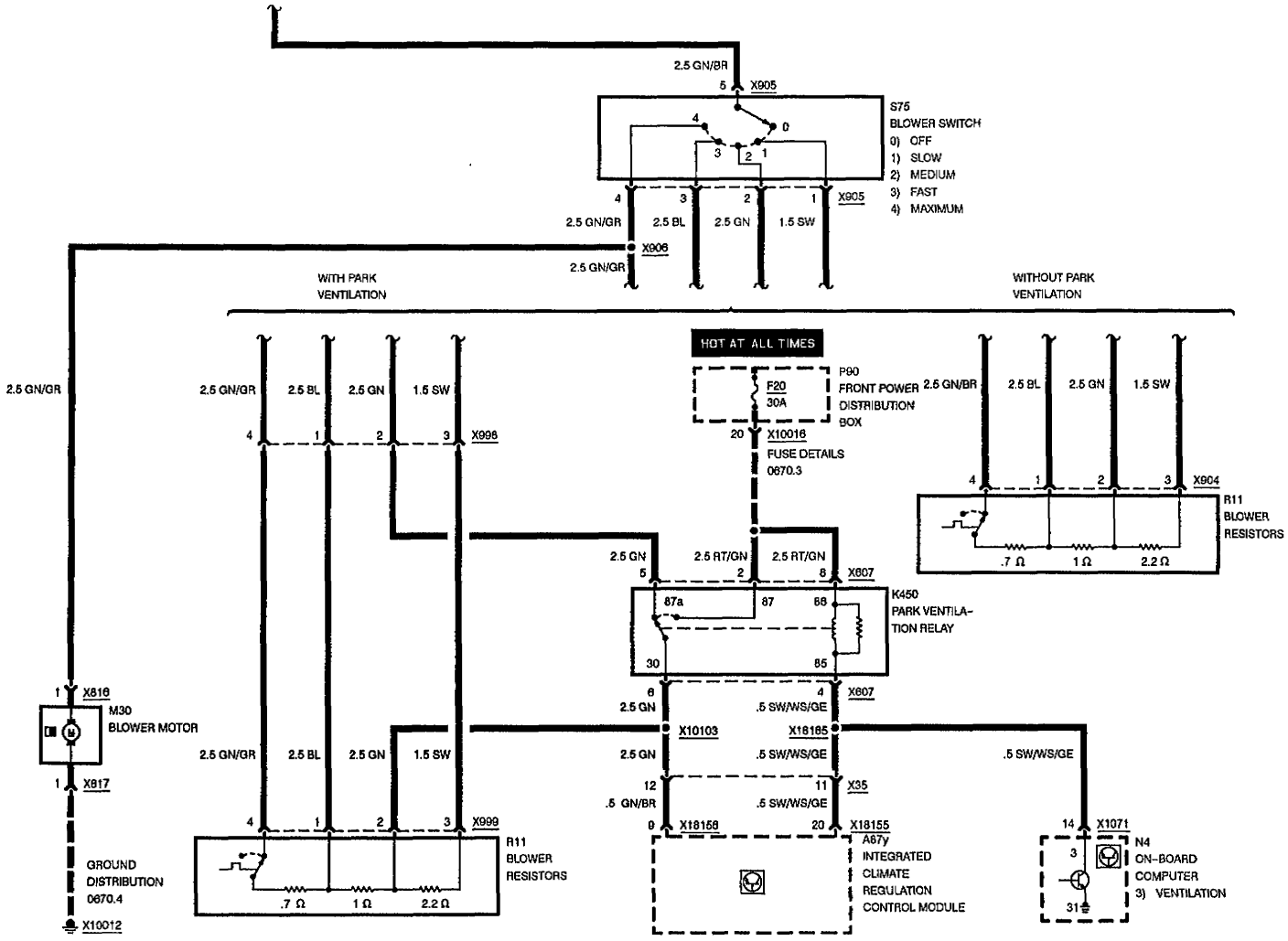
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INTEGRATED CLIMATE REGULATION (IHKR E36)

POWER, BLOWER CONTROLS



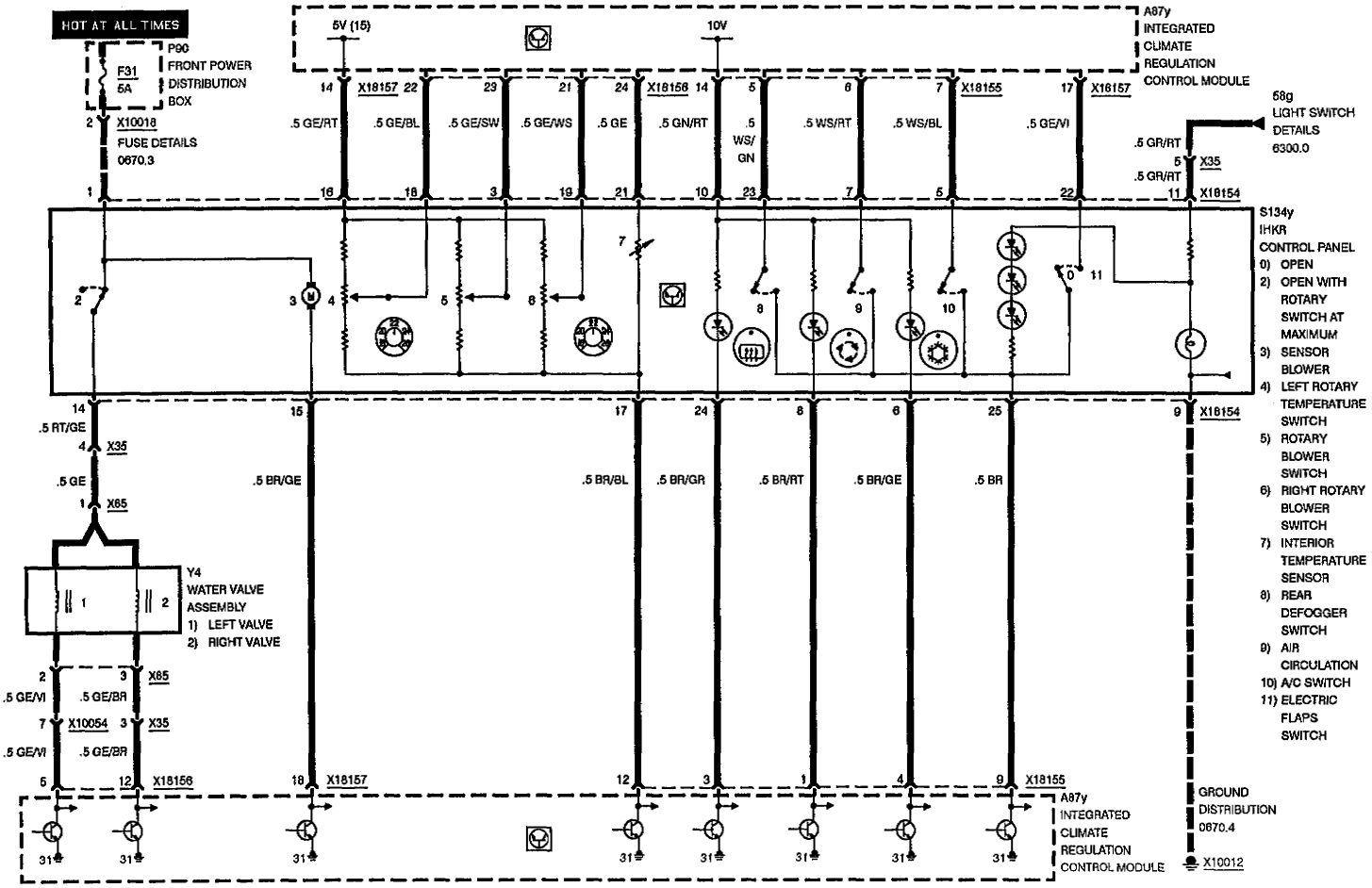
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INTEGRATED CLIMATE REGULATION (IHKR E36)

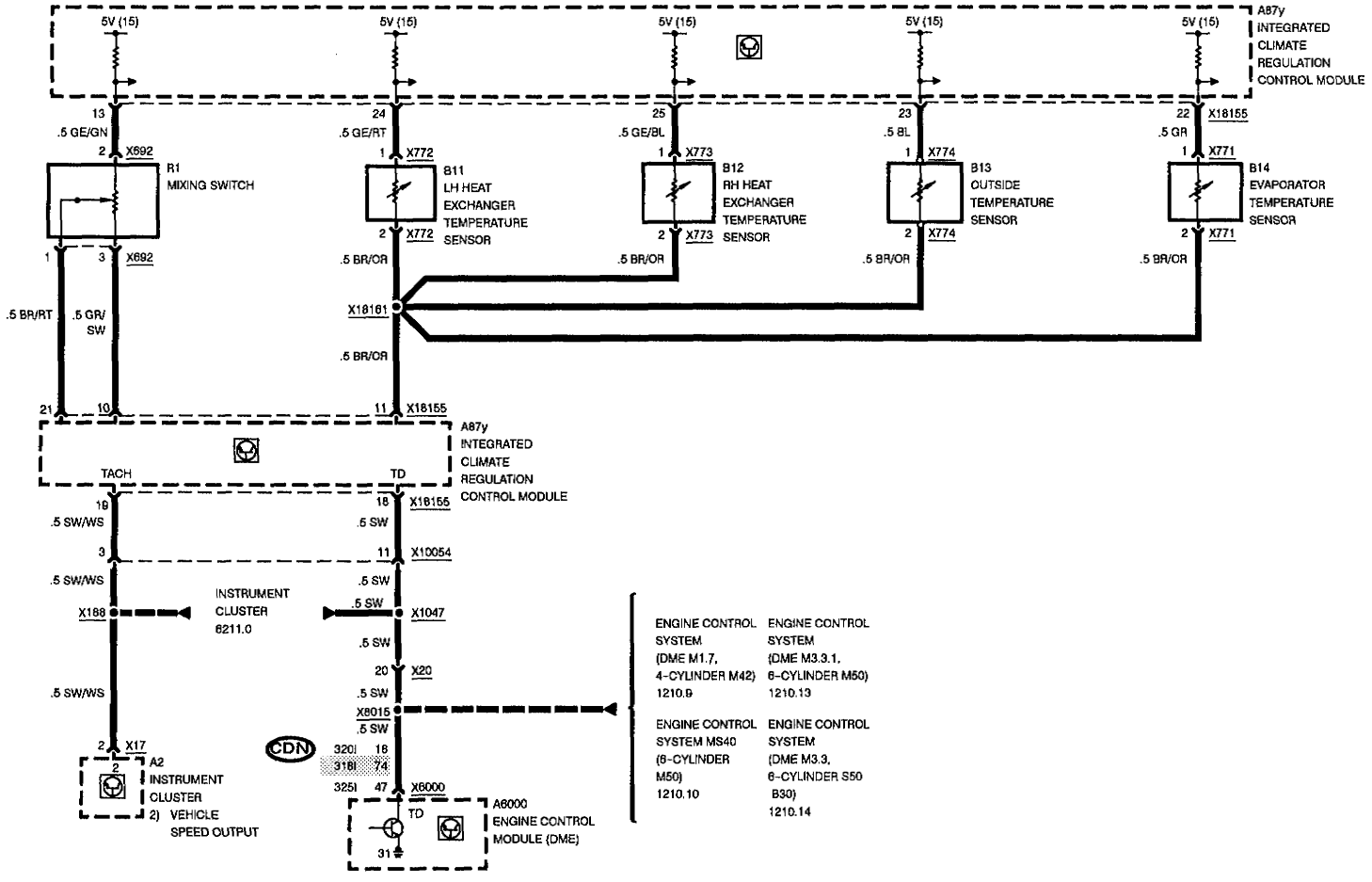
CONTROL MODULE, WATER VALVES



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INTEGRATED CLIMATE REGULATION (IHKR E36)

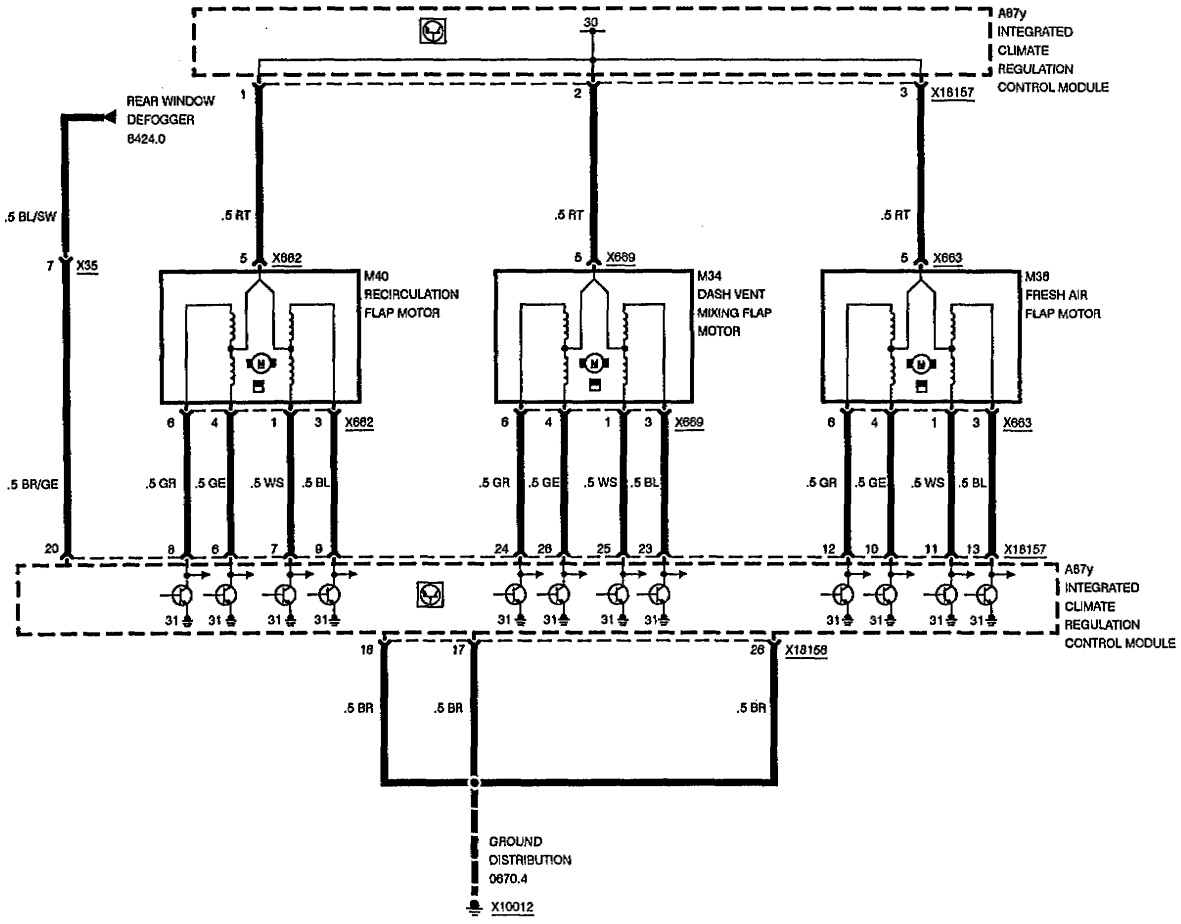
TEMPERATURE CONTROL



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INTEGRATED CLIMATE REGULATION (IHKR E36)

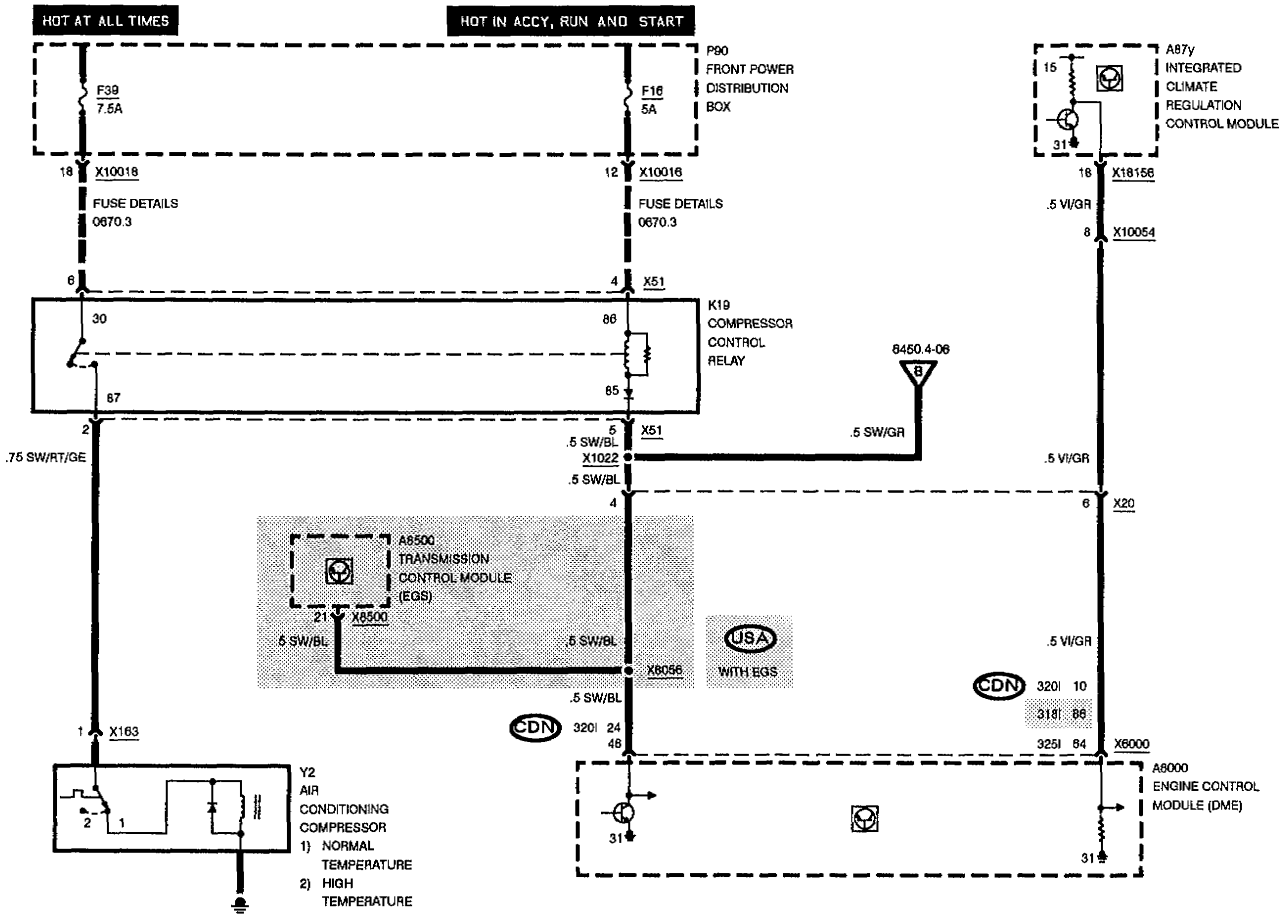
AIR DELIVERY



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INTEGRATED CLIMATE REGULATION (IHKR E36)

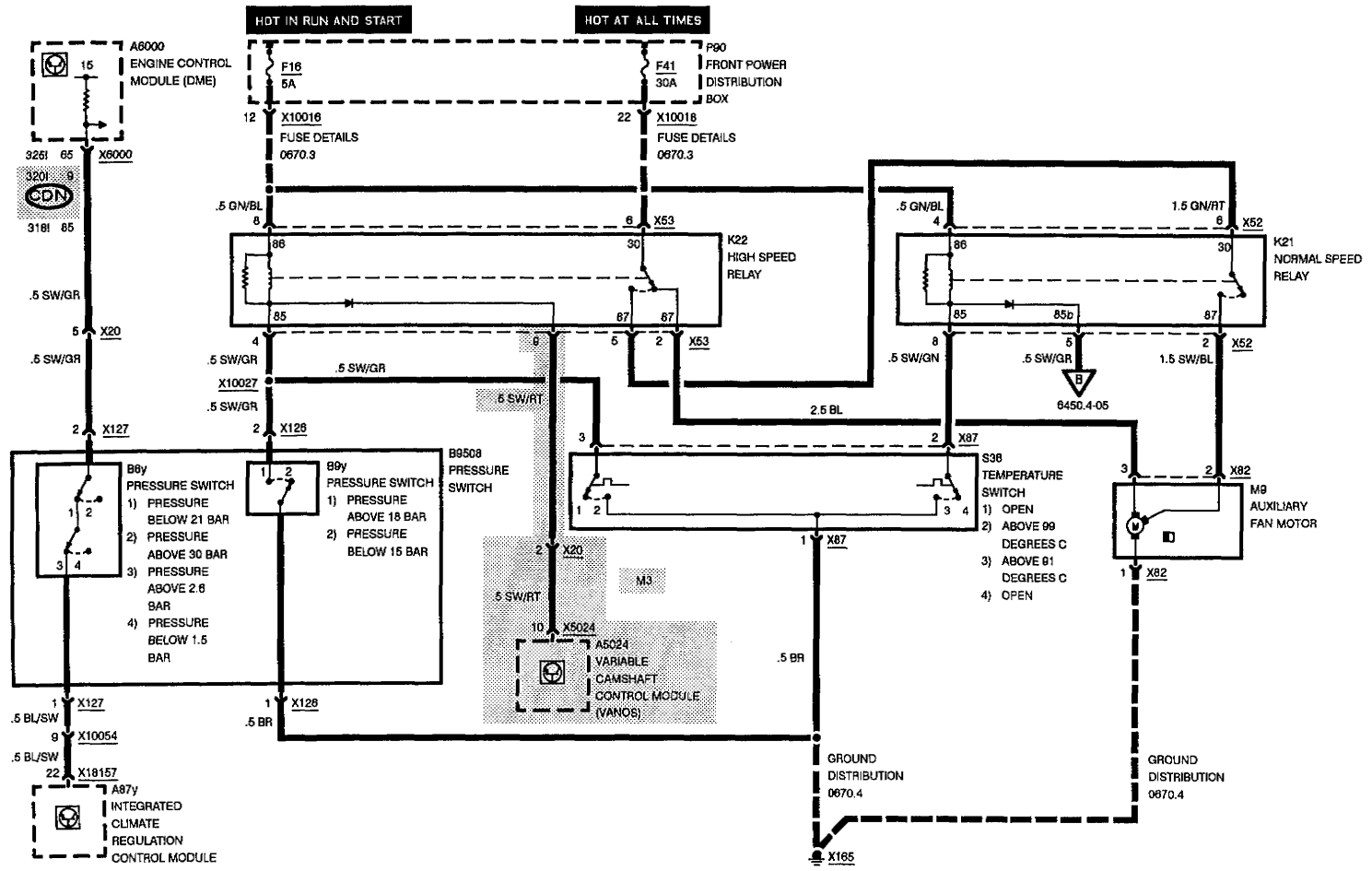
COMPRESSOR CONTROLS



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INTEGRATED CLIMATE REGULATION (IHKR E36)

AUXILIARY FAN

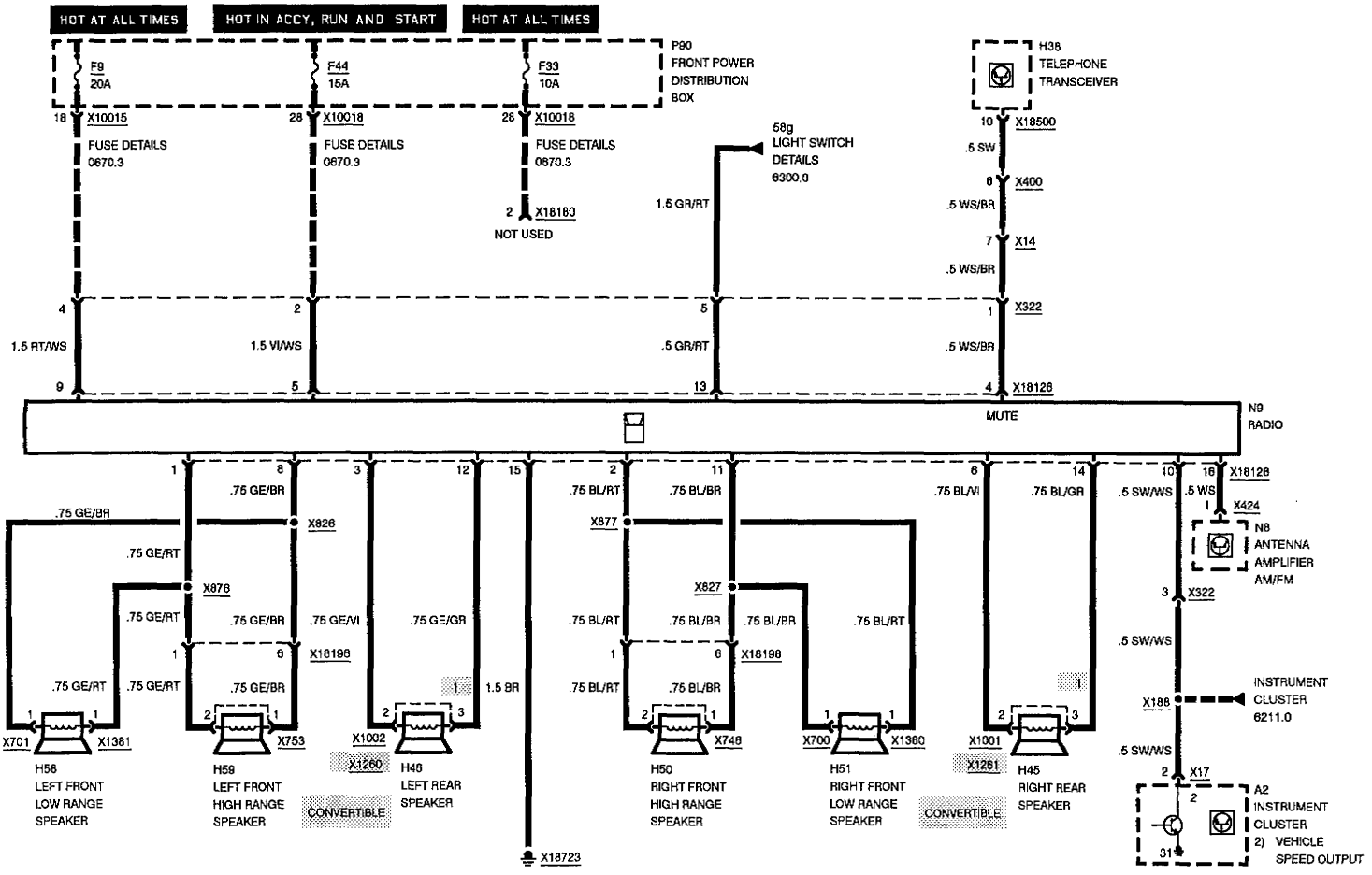


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RADIO/STEREO

STEREO, 6-SPEAKER SYSTEM

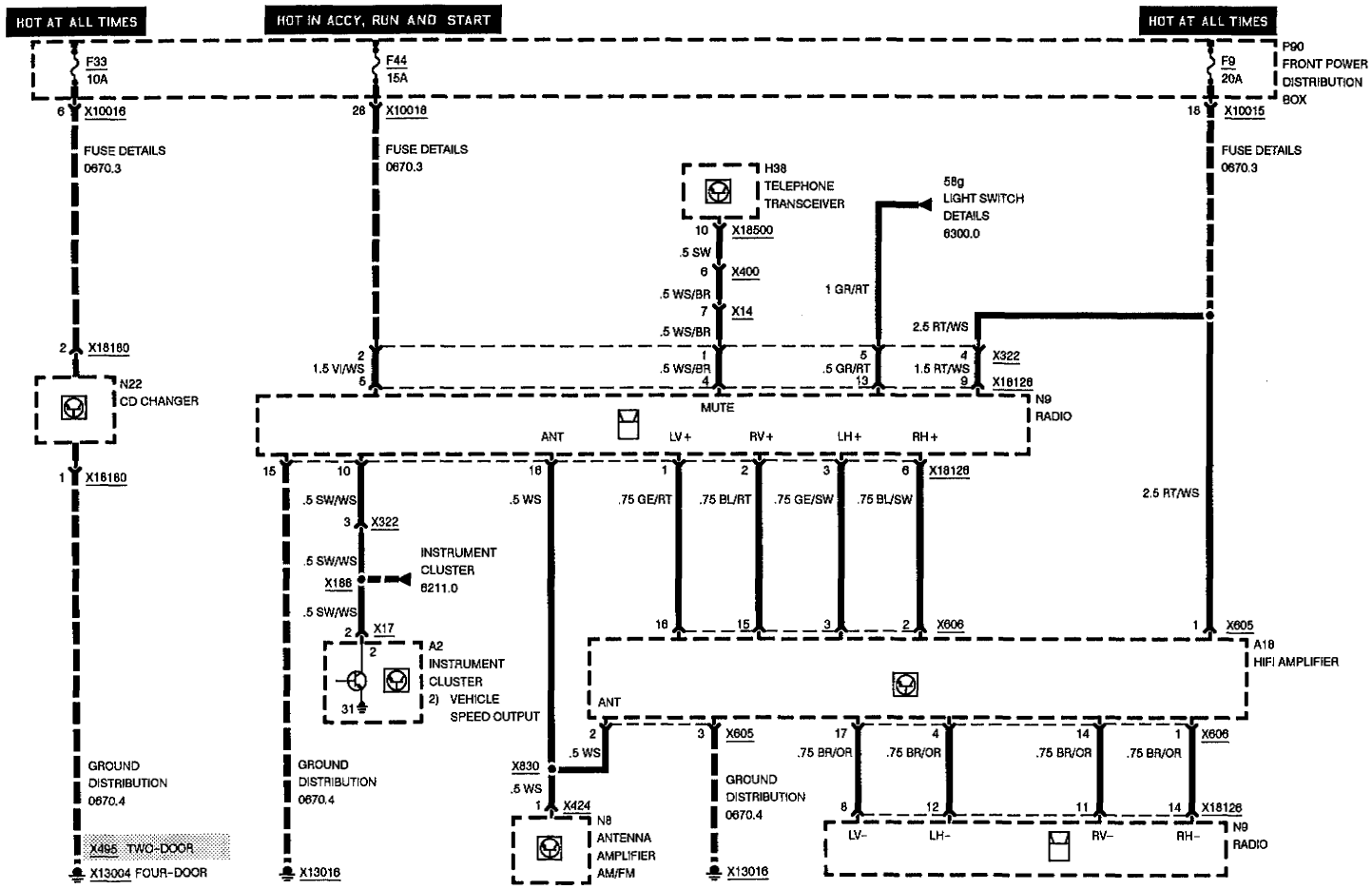


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RADIO/HIFI

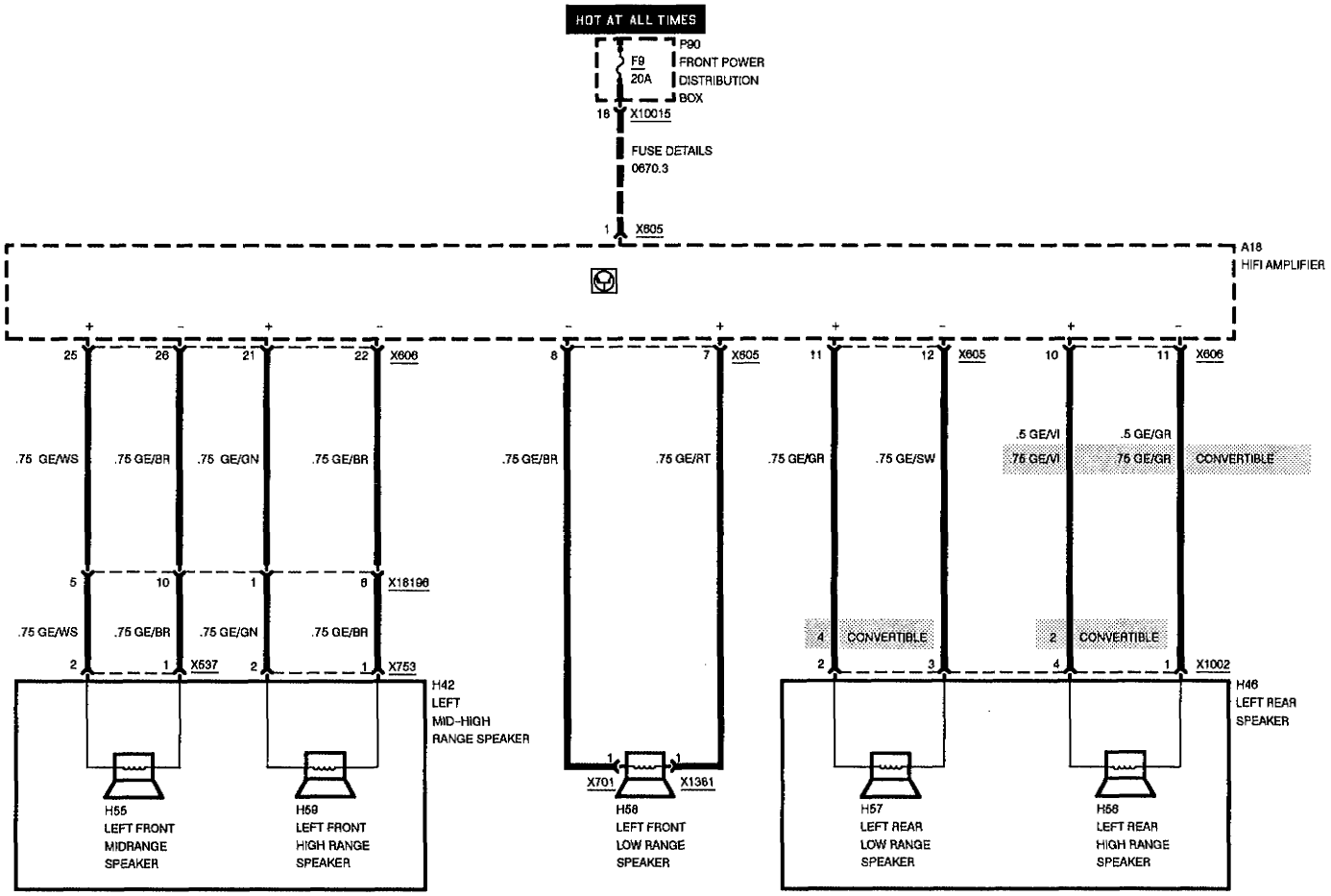
HIFI, 10-SPEAKER SYSTEM



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RADIO/HIFI

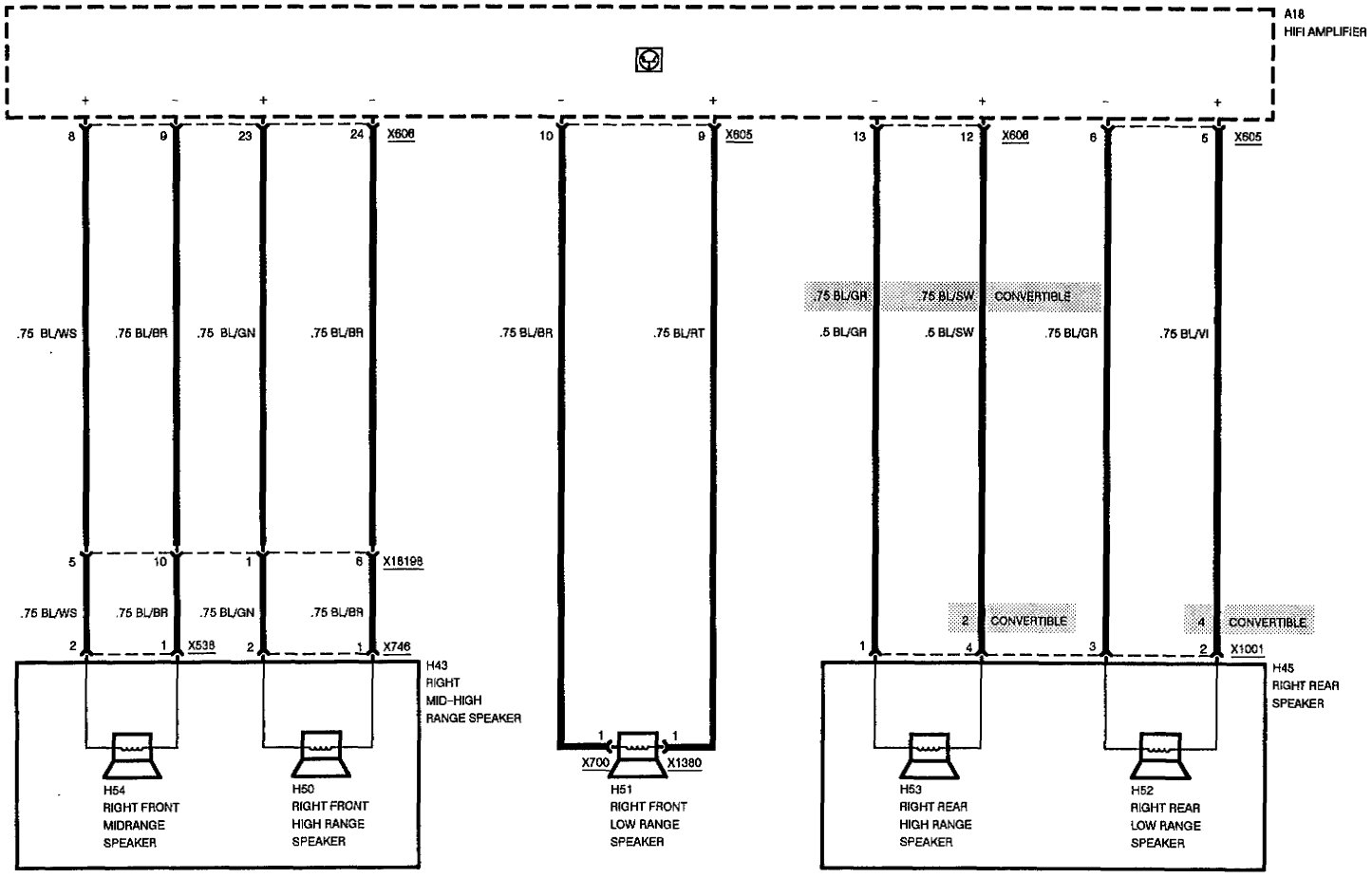
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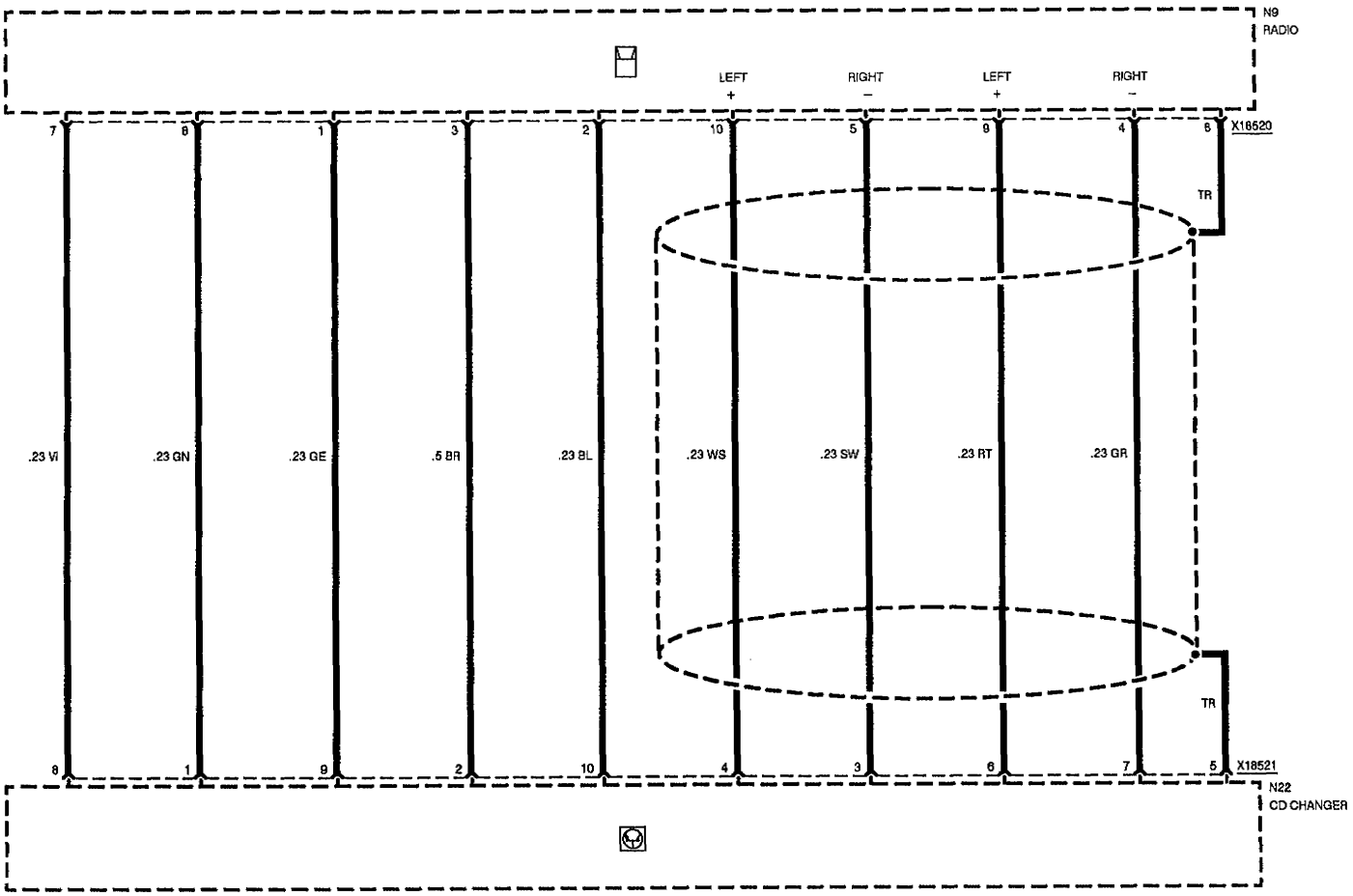
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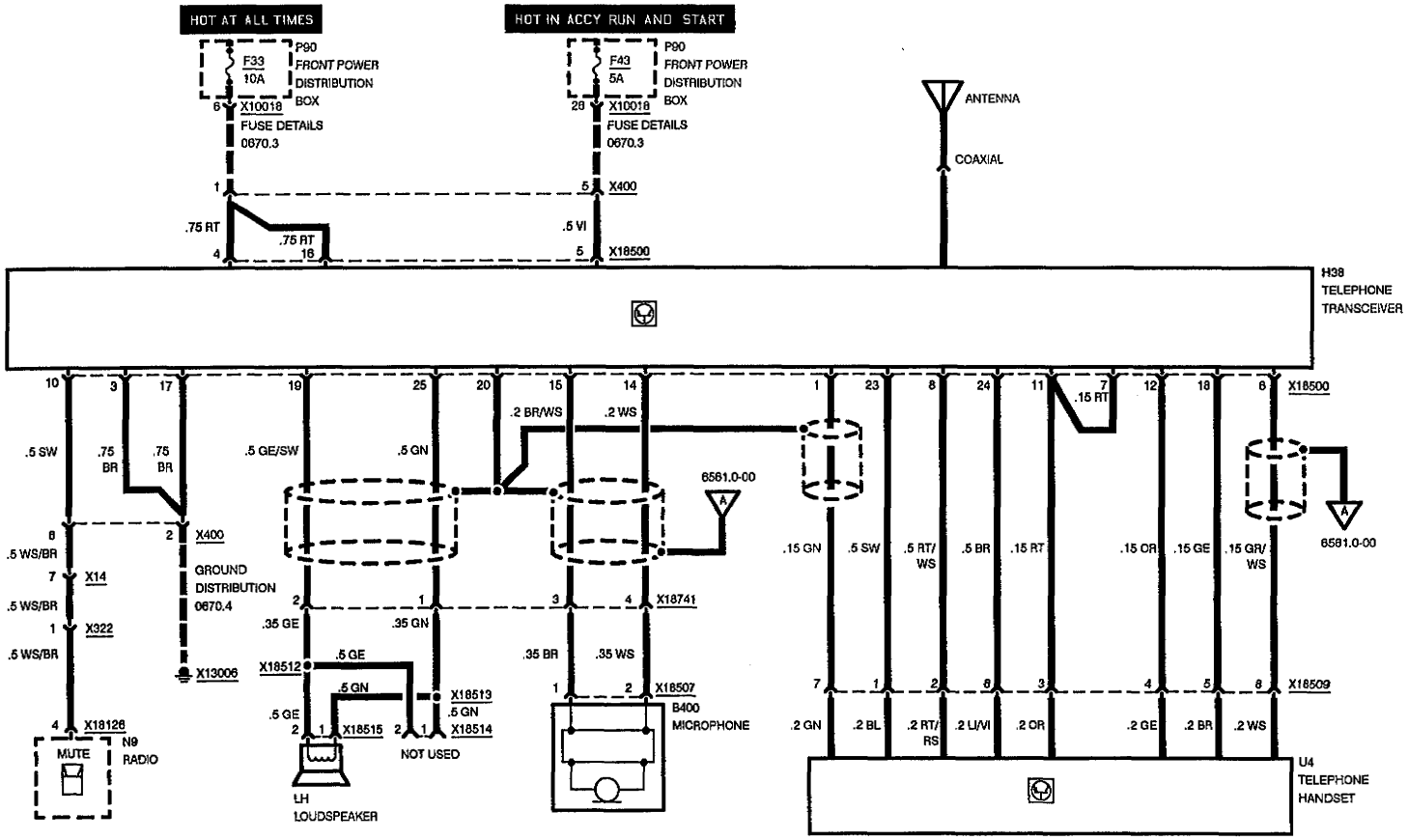
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CELLULAR TELEPHONE (PROVISIONS)

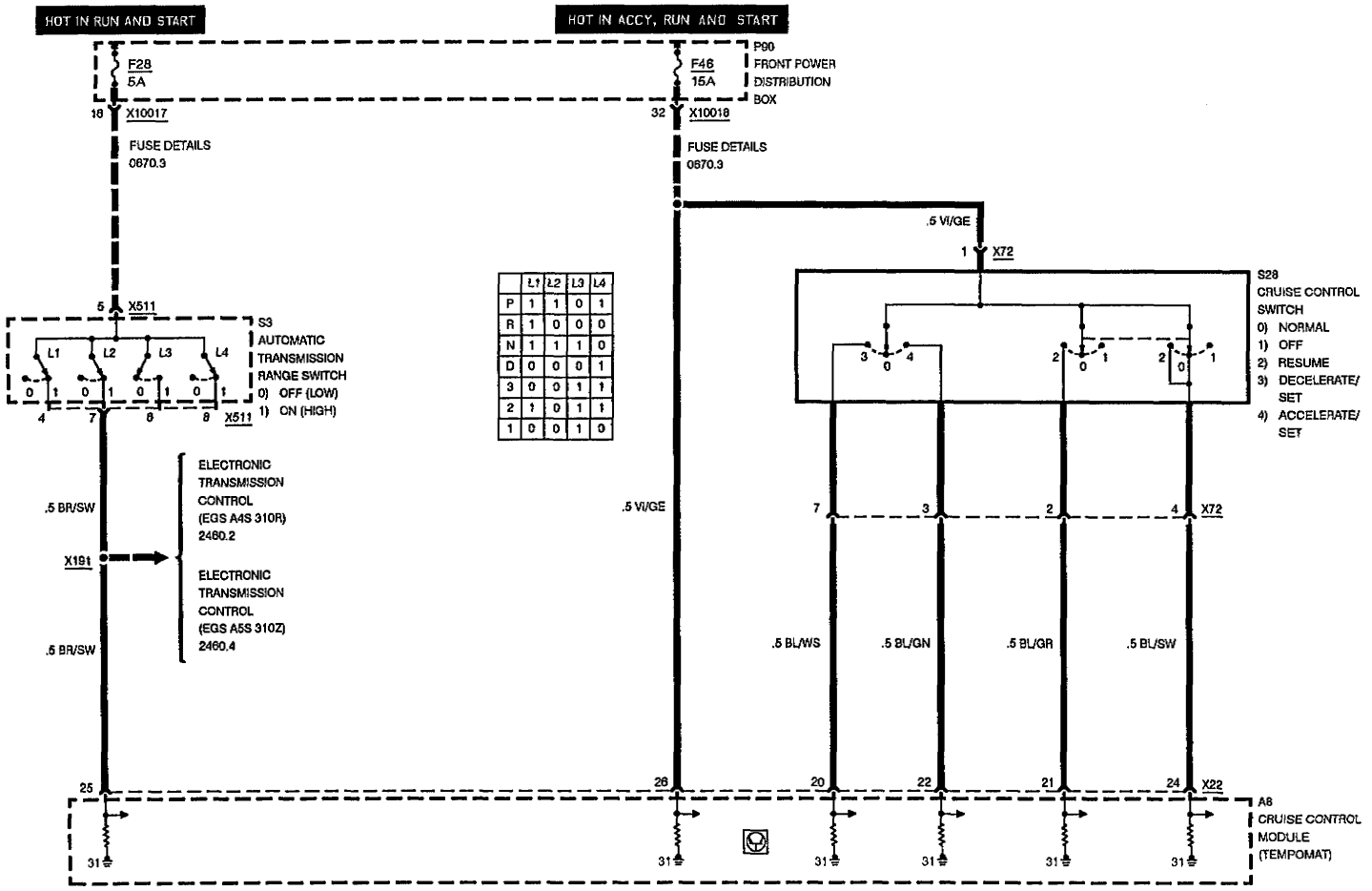
AMPS SYSTEM



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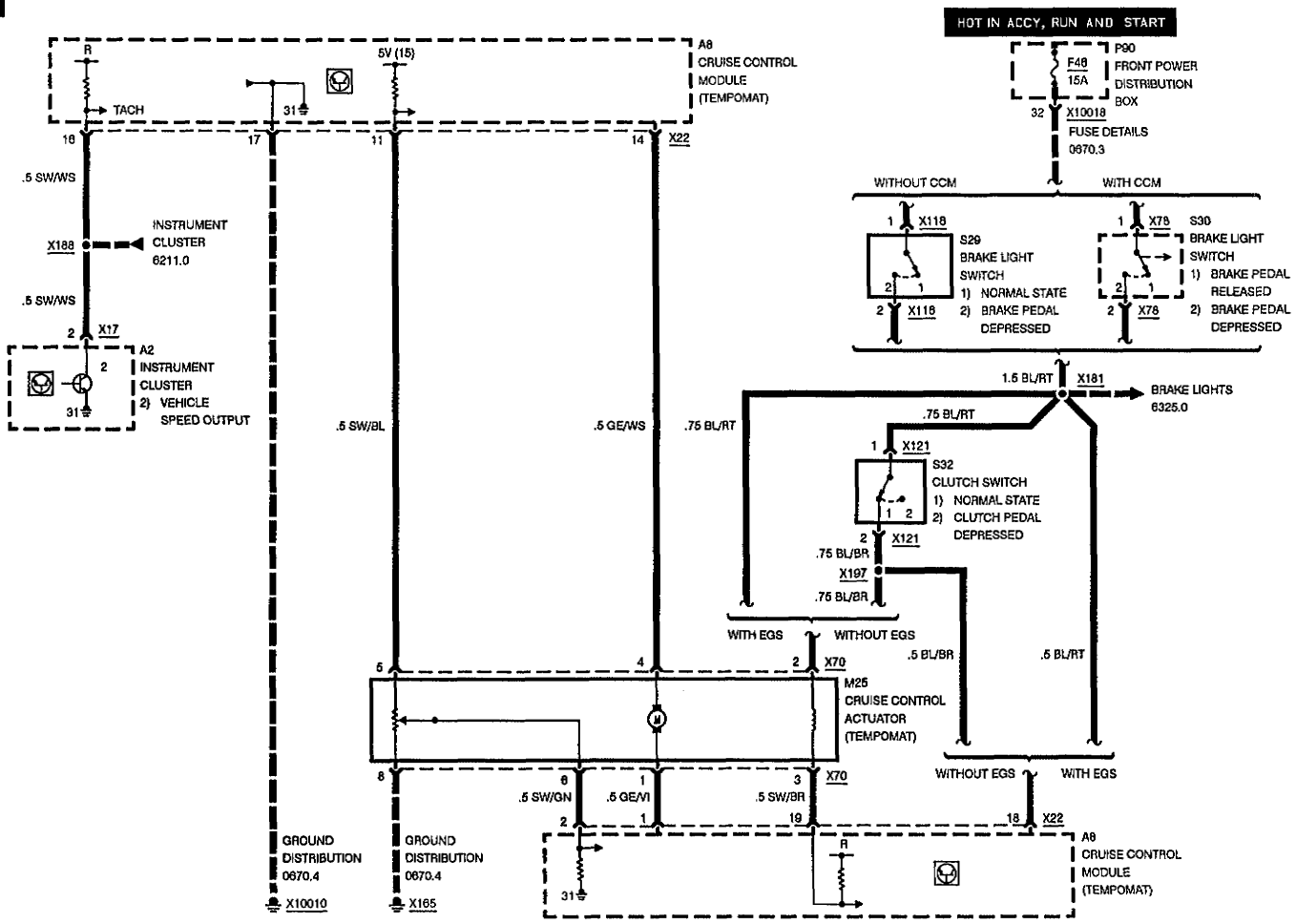
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CRUISE CONTROL (TEMPOMAT)



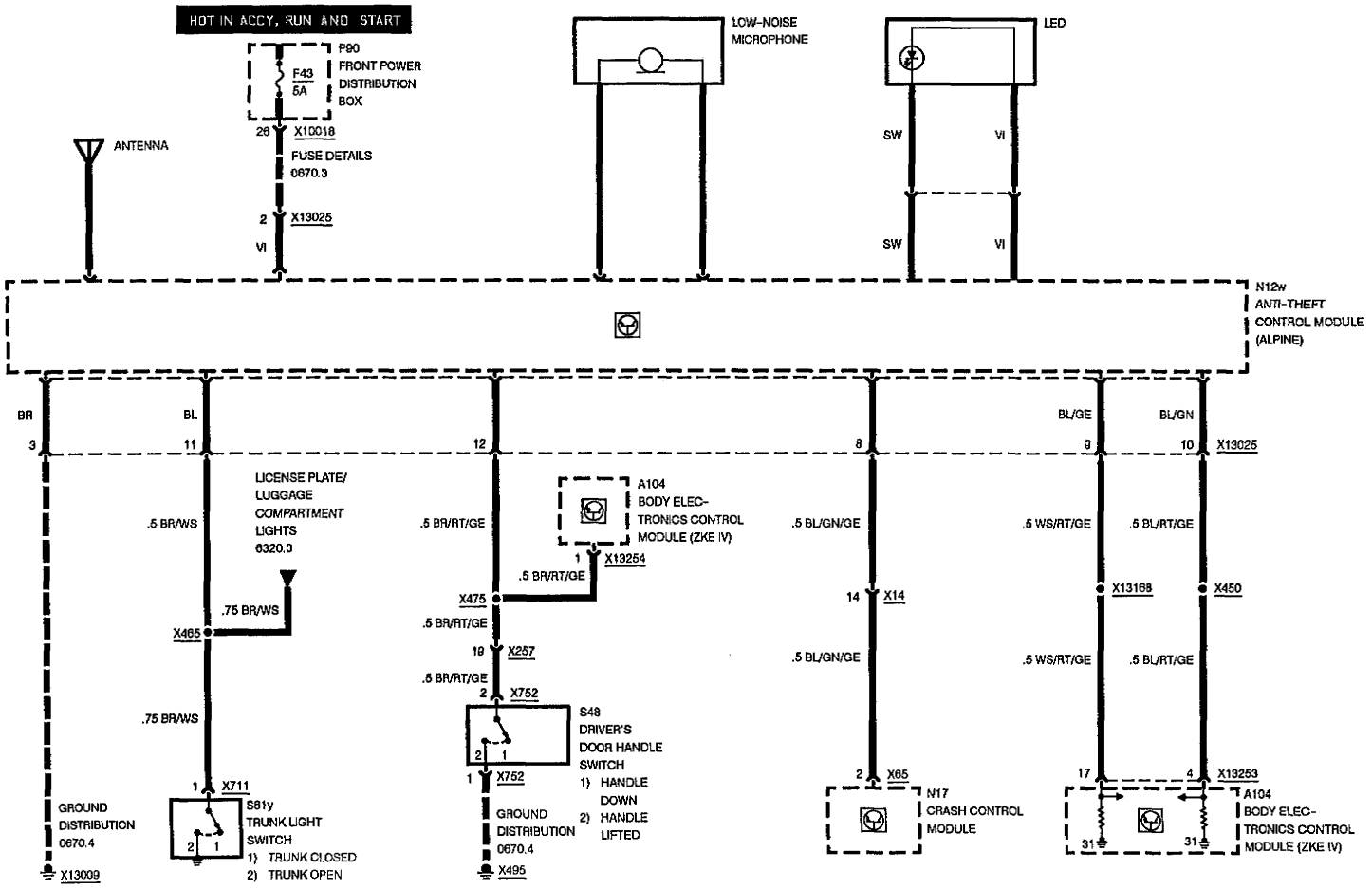
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CRUISE CONTROL (TEMPOMAT)



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ANTI-THEFT SYSTEM (ALPINE)

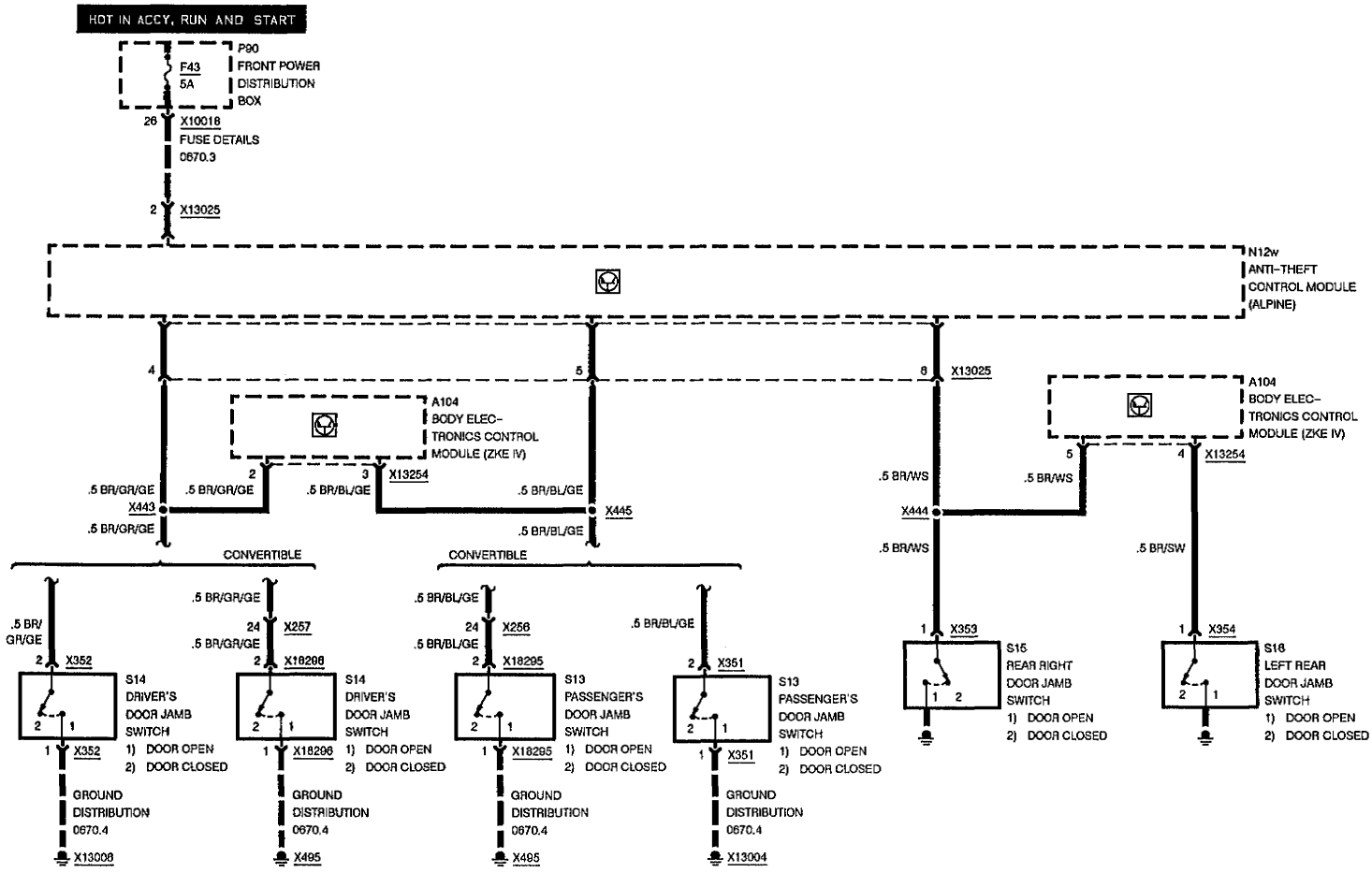


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ANTI-THEFT SYSTEM (ALPINE)

EARLY PRODUCTION

FRONT AND REAR DOOR JAMB SWITCHES

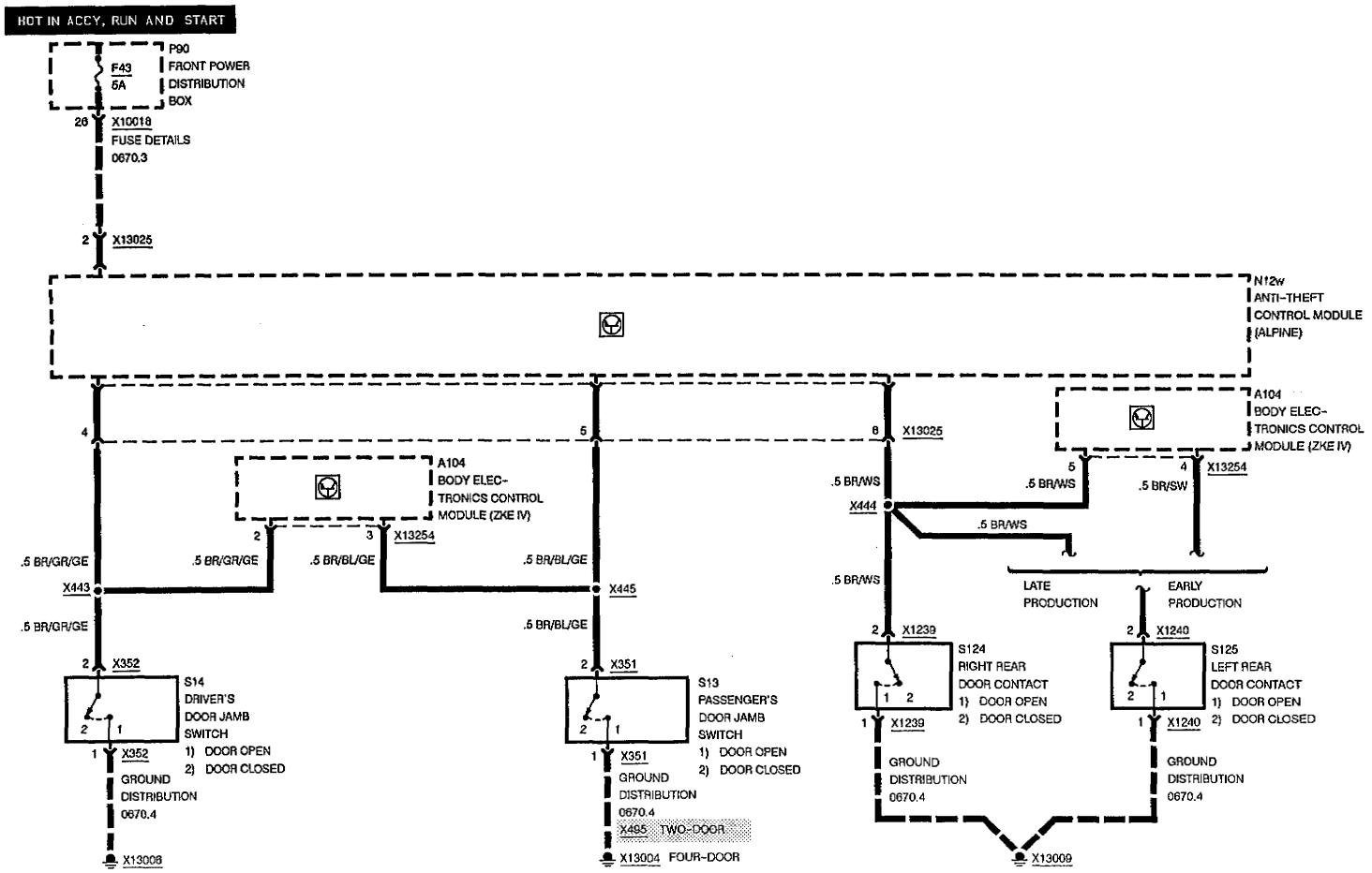


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ANTI-THEFT SYSTEM (ALPINE)

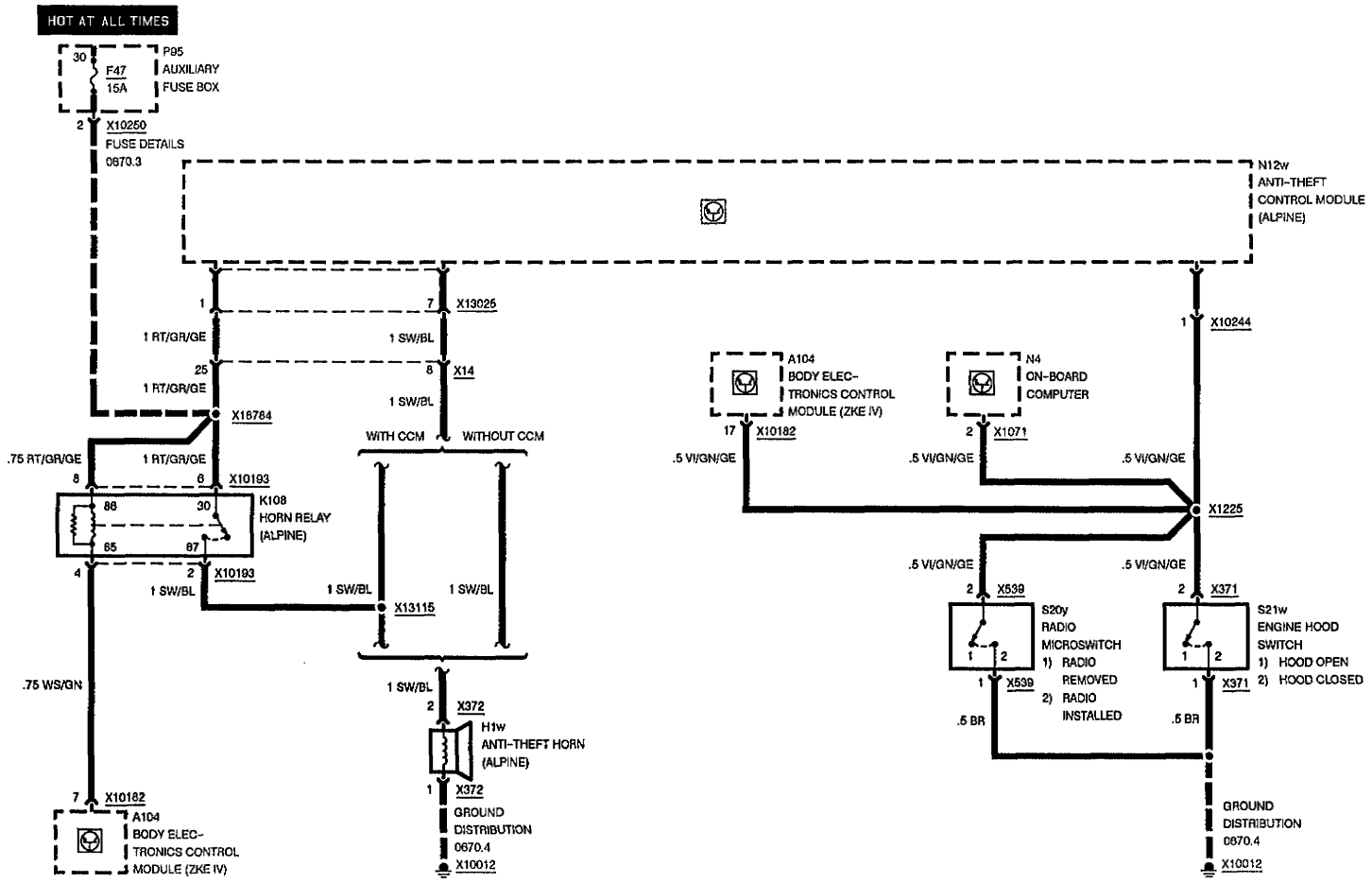
FRONT AND REAR DOOR JAMB SWITCHES

LATE PRODUCTION



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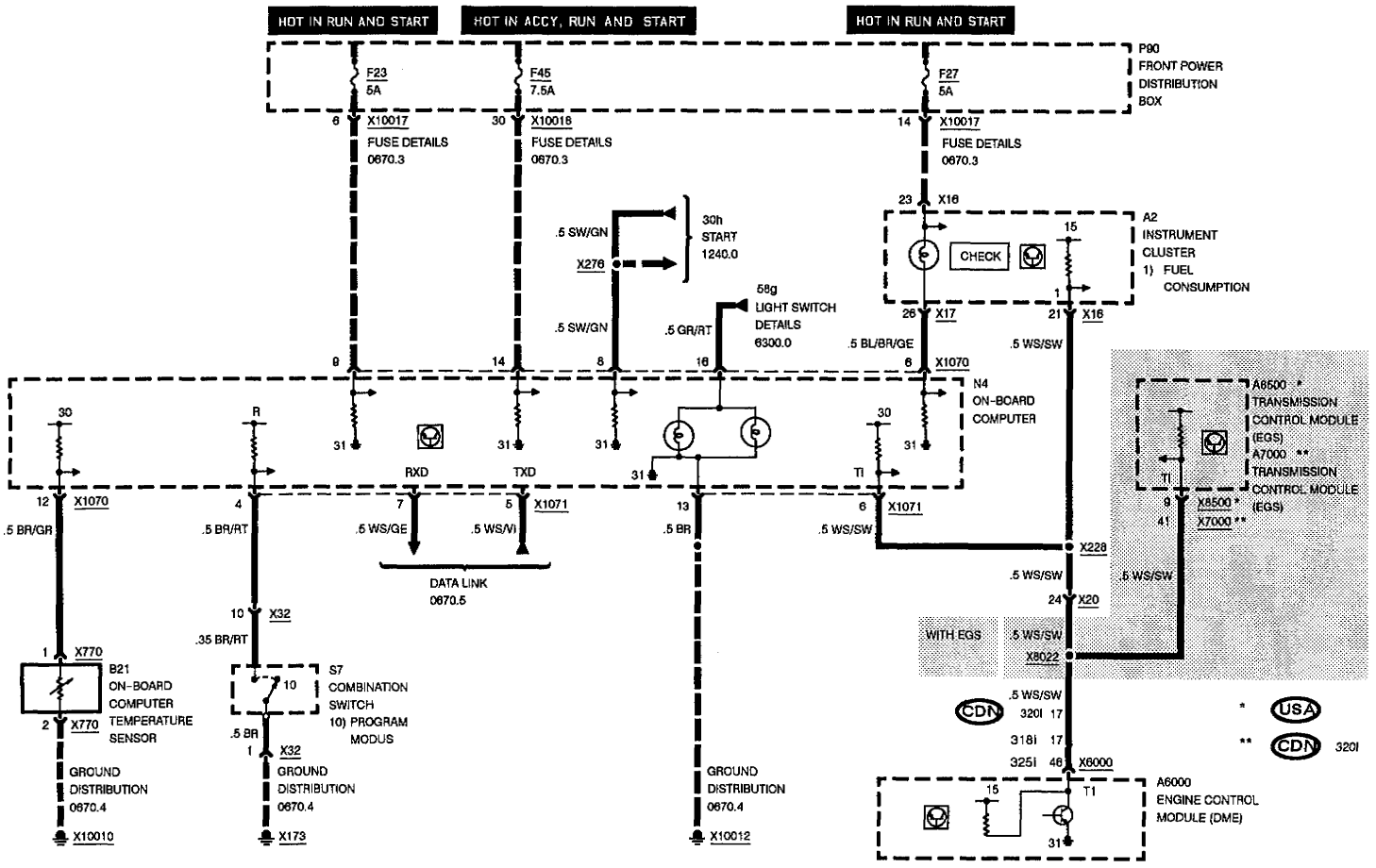
BMW 3 ANTI-THEFT SYSTEM (ALPINE)



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ON-BOARD COMPUTER (BC V)

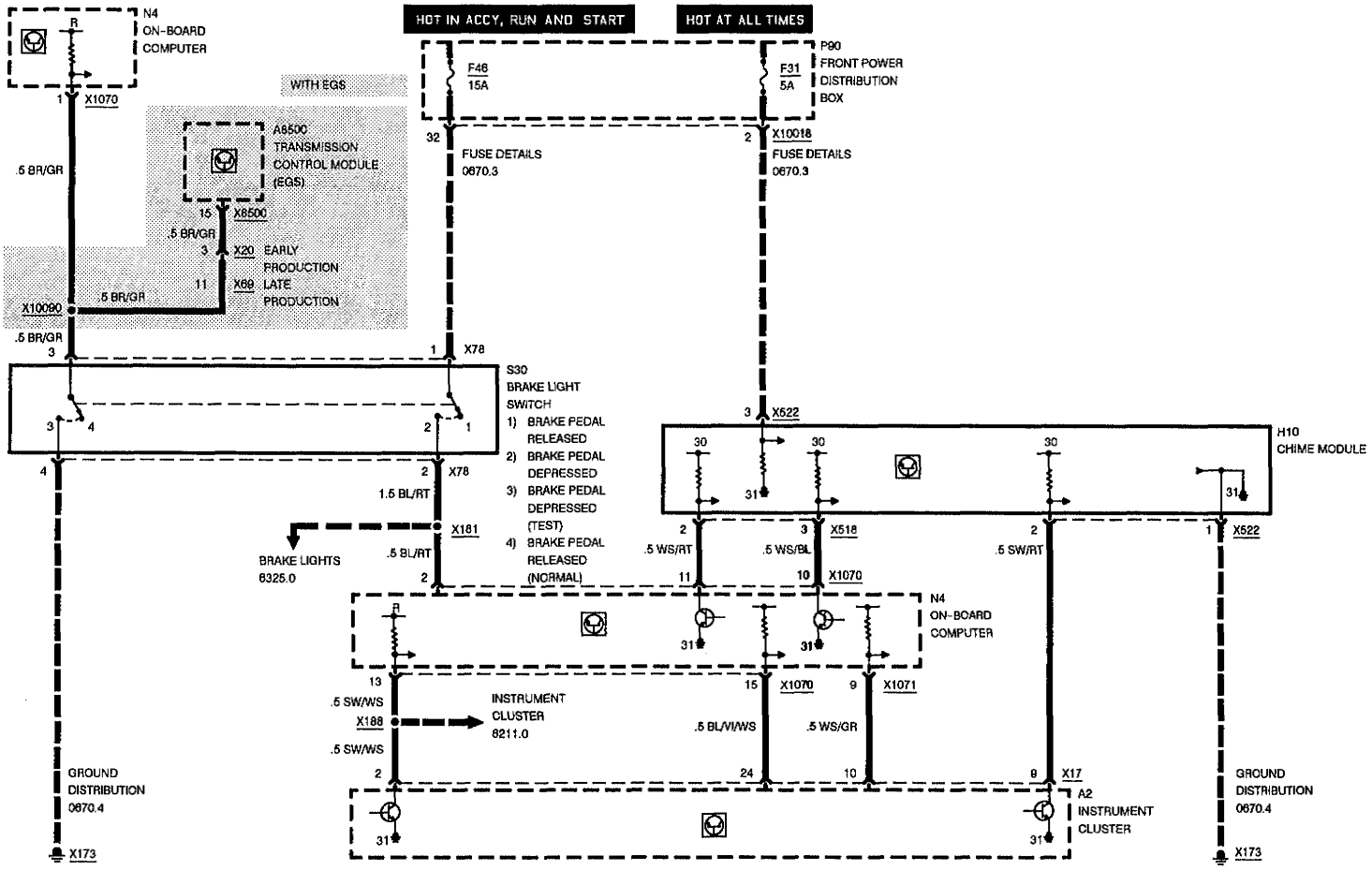
POWER



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ON-BOARD COMPUTER (BC V)

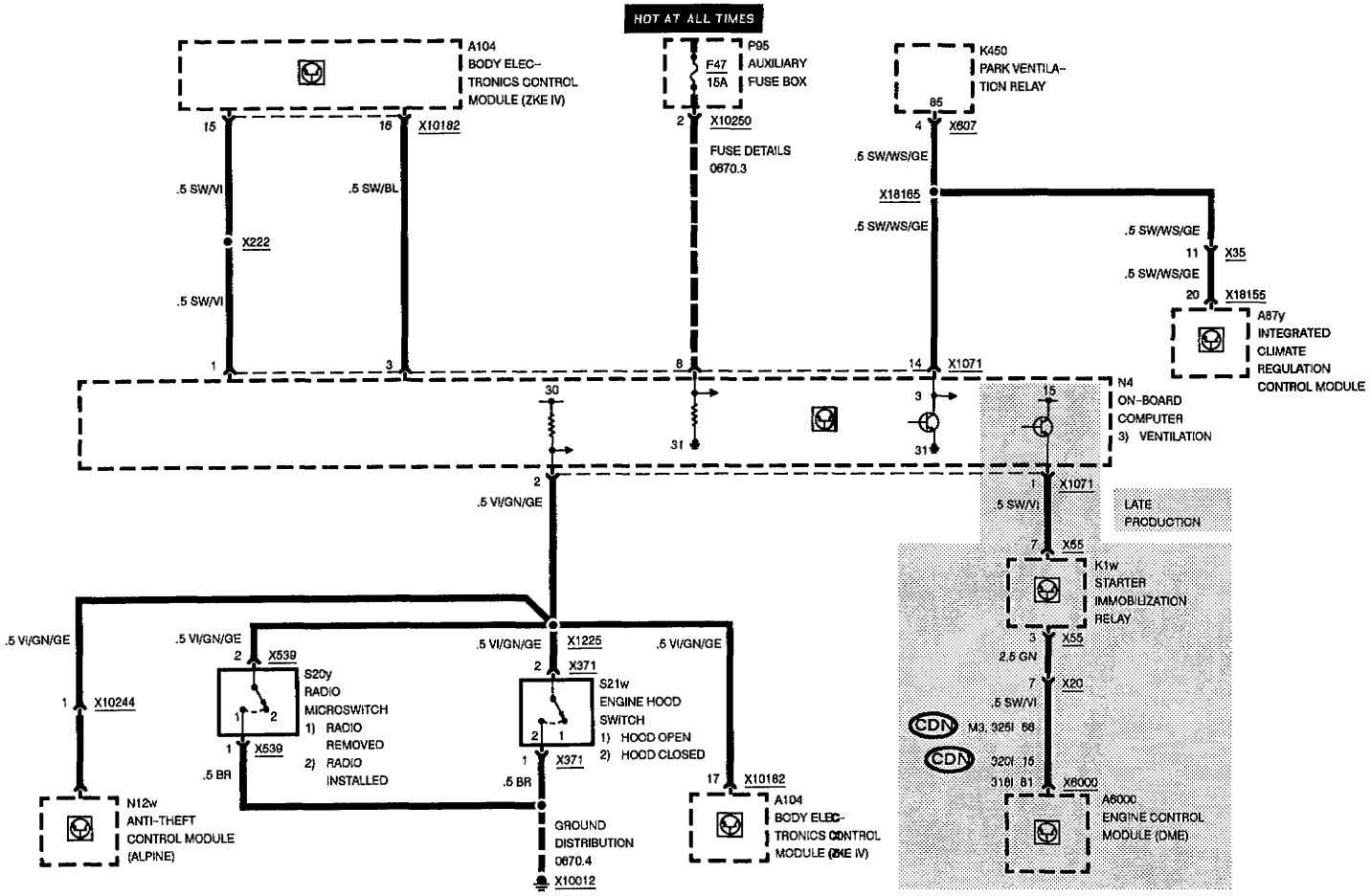
CHIME, BRAKE LIGHT SWITCH



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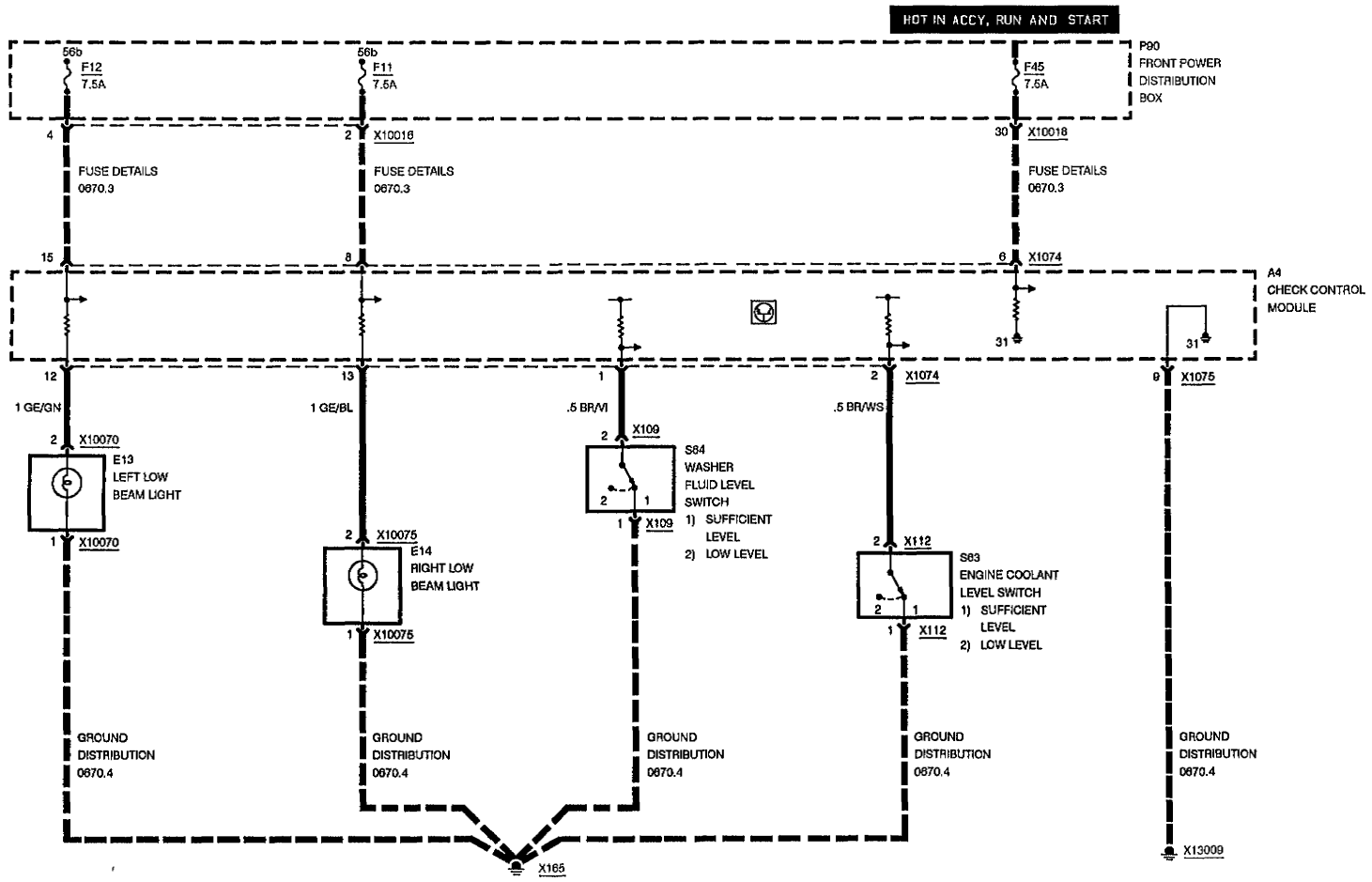
DRIVE-AWAY PROTECTION



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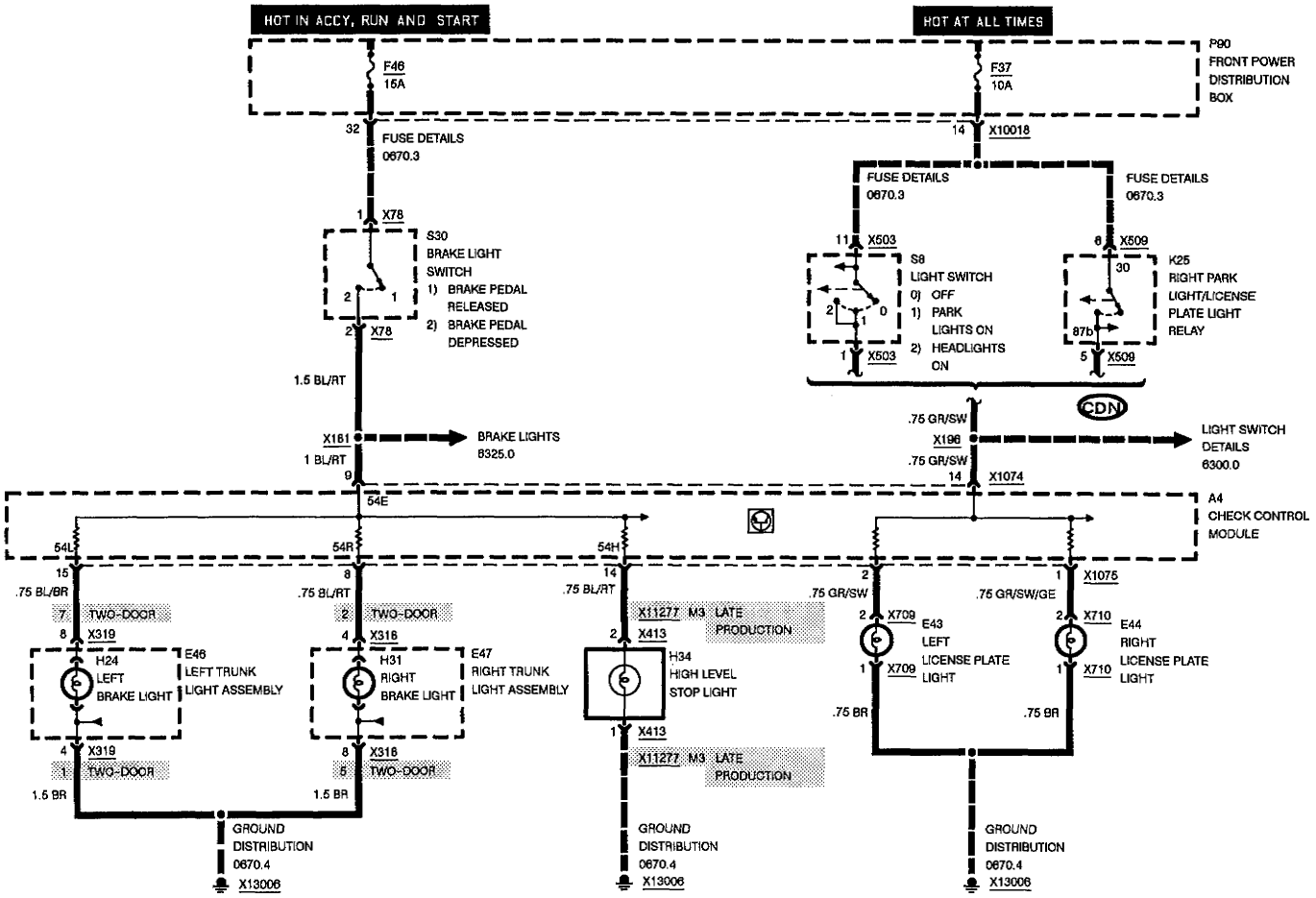
CHECK CONTROL



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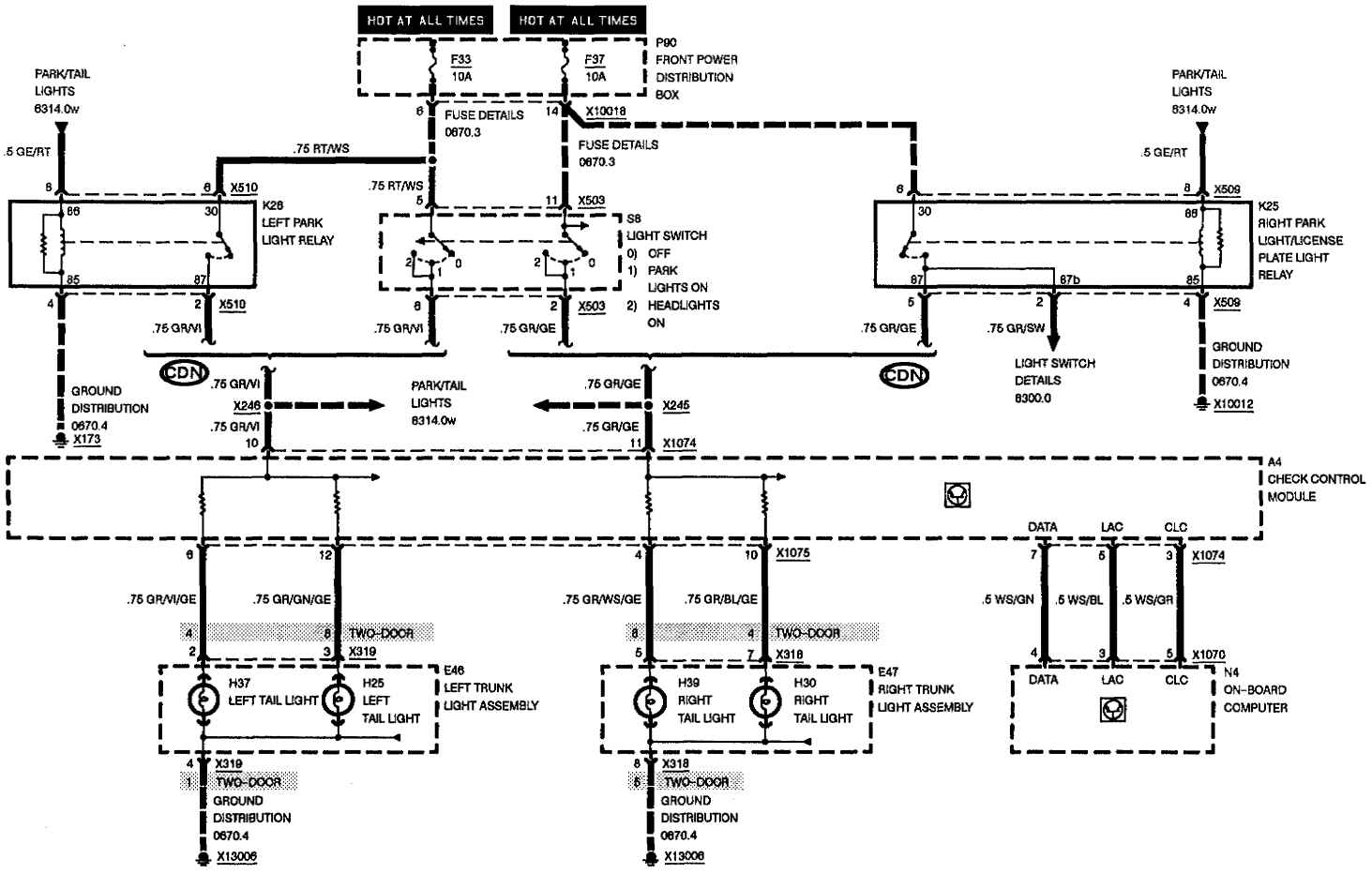
CHECK CONTROL



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ON-BOARD COMPUTER (BC V)

CHECK CONTROL



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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

COMPONENT

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0 8500.0
H38 ...	TELEPHONE TRANSCEIVER	Rear side of luggage compartment	
H41 ...	LEFT FRONT SPEAKER	In lower LH A-pillar	
H42 ...	LEFT MID-HIGH RANGE SPEAKER	In upper LH front door	
H43 ...	RIGHT MID-HIGH RANGE SPEAKER	In upper RH front door	
H45 ...	RIGHT REAR SPEAKER	Under rear window shelf	
H46 ...	LEFT REAR SPEAKER	Under rear window shelf	
H50 ...	RIGHT FRONT HIGH RANGE SPEAKER	In upper RH front door	
H51 ...	RIGHT FRONT LOW RANGE SPEAKER	In lower RH A-pillar	
H52 ...	RIGHT REAR LOW RANGE SPEAKER	Under rear window shelf	
H53 ...	RIGHT REAR HIGH RANGE SPEAKER	Under rear window shelf	
H54 ...	RIGHT FRONT MIDRANGE SPEAKER	In upper RH front door	
H55 ...	LEFT FRONT MIDRANGE SPEAKER	In upper LH front door	
H56 ...	LEFT REAR HIGH RANGE SPEAKER	Under rear window shelf	
H57 ...	LEFT REAR LOW RANGE SPEAKER	Under rear window shelf	
H58 ...	LEFT FRONT LOW RANGE SPEAKER	In lower LH A-pillar	
H59 ...	LEFT FRONT HIGH RANGE SPEAKER	In upper LH front door	
K1	STARTER RELAY	Behind LH footwell speaker grille	25-3
K2	HORN RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K4	BLOWER RELAY	Rear LH side of engine compartment in Power Distribution Box	19-2
K9	UNLOADER RELAY, TERMINAL 15	Behind LH footwell speaker grille	25-3

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COMPONENT LOCATION CHART

BMW 3

COMPONENT

PAGE – FIGURE
7100.0 8500.0

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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BMW 3 COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

COMPONENT

PAGE – FIGURE
7100.0 8500.0

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

COMPONENT

			PAGE – FIGURE 7100.0	8500.0
S63 ...	ENGINE COOLANT LEVEL SWITCH	Front RH side of engine compartment	18-1	
S64 ...	WASHER FLUID LEVEL SWITCH	Front RH side of engine compartment on washer fluid reservoir	10-1	
S71 ...	LEFT FRONT IMPACT SENSOR	LH side of engine compartment		
S75 ...	BLOWER SWITCH	Center of dash		
S77 ...	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor	23-1	
S78 ...	PASSENGER'S MAKEUP MIRROR SWITCH	Above RH sun visor	32-2	
S82 ...	REAR FOG LIGHT SWITCH	LH side of dash		
S123 ..	ABS PEDAL TRAVEL SENSOR	Near brake master cylinder	18-3	
S130 ..	CHILD PROTECTION CONTROL (CONSOLE)	Center console		
S143 ..	CONVERTIBLE TOP ACTUATING SWITCH	Center console		
S164 ..	CONVERTIBLE TOP END-POSITION MICRO SWITCH	At convertible top linkage		
S165 ..	CONVERTIBLE TOP POSITION MICRO SWITCH	At convertible top linkage		
S196 ..	REAR WINDOW BLOWER MICRO SWITCH	At convertible top linkage		
S20y ..	RADIO MICROSWITCH	Center of dash		
S213 ..	TRUNK LID MICRO SWITCH	In LH rear side of luggage compartment		
S214 ..	CONVERTIBLE TOP STORAGE LID MICRO SWITCH	At convertible top linkage		
S21w ..	ENGINE HOOD SWITCH	Front RH side of engine compartment	13-2	
S40y ..	CENTRAL POWER WINDOW SWITCH	Center console		
S61y ..	TRUNK LIGHT SWITCH	Underside of trunk lid left	34-2	

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BMW 3 COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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BMW 3 COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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BMW 3 COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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BMW 3 COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

COMPONENT

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

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COMPONENT LOCATION CHART

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

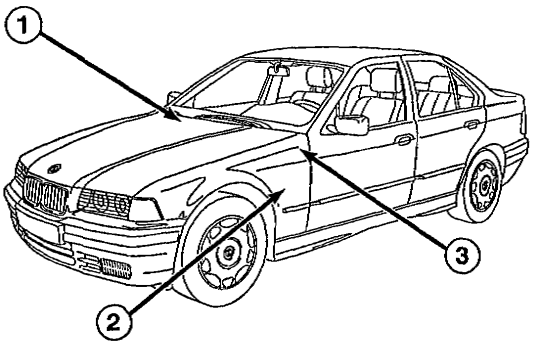
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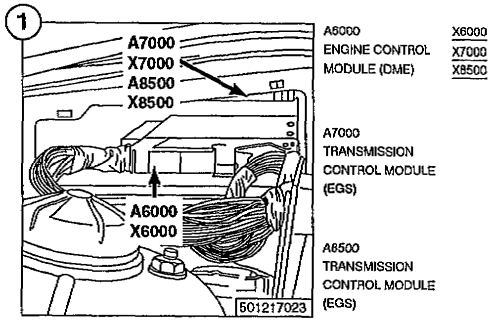
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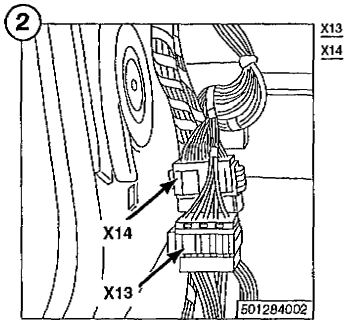
COMPONENT

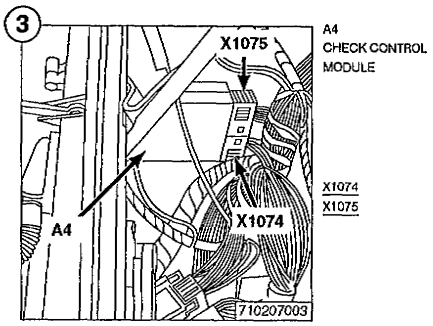
			PAGE - FIGURE 7100.0	8500.0
Y5013	CHANGE-OVER VALVE	LH side of engine (M3)	14-2	
Y5020	VARIABLE CAMSHAFT CONTROL VALVE 1	RH front of engine (M3)	11-2	
Y5021	VARIABLE CAMSHAFT CONTROL VALVE 2	Front of engine compartment (M3)		
Y6101	CYL. 1 FUEL INJECTION VALVE	RH front of engine (M3)	11-2	
Y6101	CYL.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

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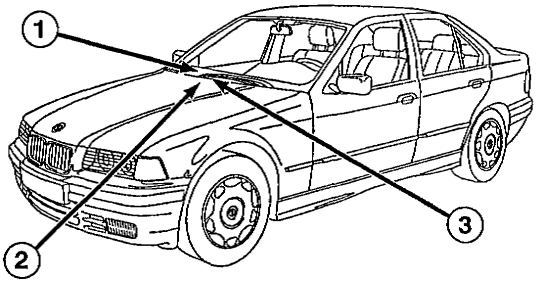


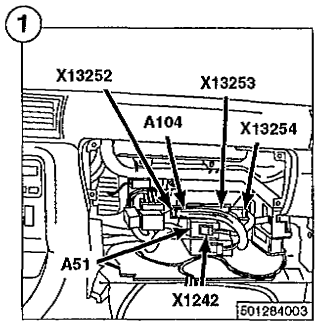


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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

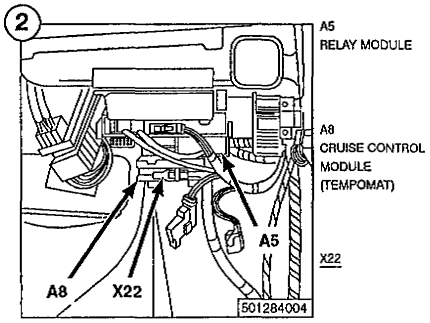




A104
BODY ELECTRONICS CONTROL MODULE (ZKE IV)

A51
WIPER/WASHER MODULE

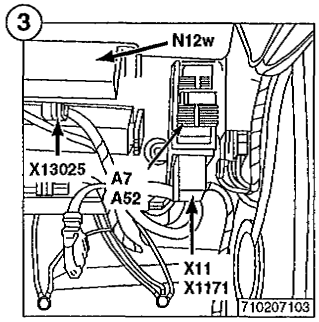
X1242
X13252
X13253
X13254



A5
RELAY MODULE

A8
CRUISE CONTROL MODULE (TEMPOMAT)

X22



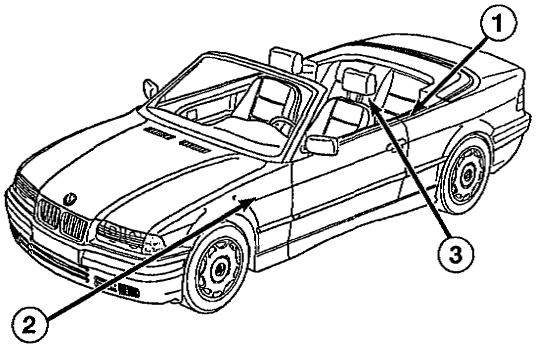
A7
SLIP CONTROL MODULE (ABS)

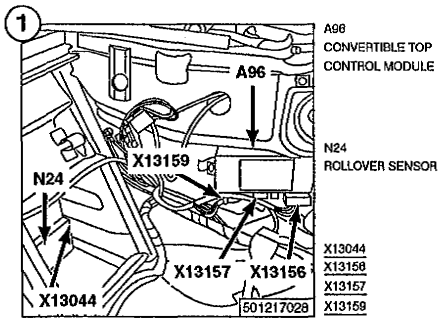
X11
X1171
X13025

A52
SLIP CONTROL MODULE (ABS/ASC)

N12w
ANTI-THEFT CONTROL MODULE (ALPINE)

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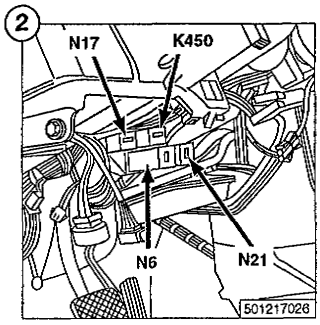




A96
CONVERTIBLE TOP CONTROL MODULE

N24
ROLLOVER SENSOR

X13044
X13156
X13157
X13159

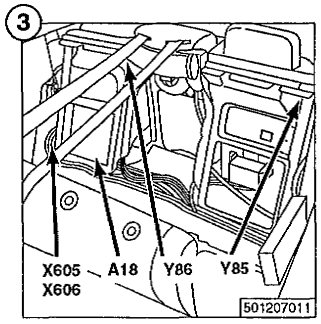


N6
HEADLIGHT/ FOGLIGHT CLEANING MODULE (SRA)

K450
PARK VENTILATION RELAY

N17
CRASH CONTROL MODULE

N21
TWIN RELAY MODULE



A18
HIFI AMPLIFIER

X605
X606

Y85
LH ROLLOVER PROTECTION ACTUATOR

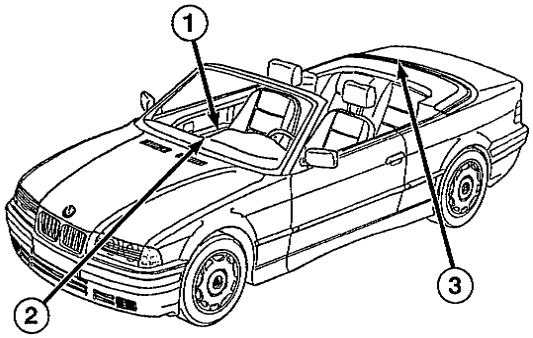
Y86
RH ROLLOVER PROTECTION ACTUATOR

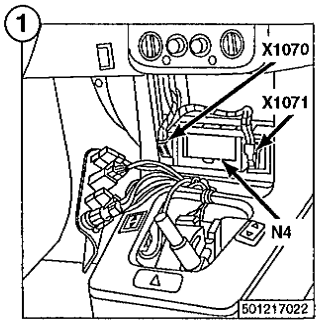
CONVERTIBLE

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COMPONENT LOCATION VIEWS

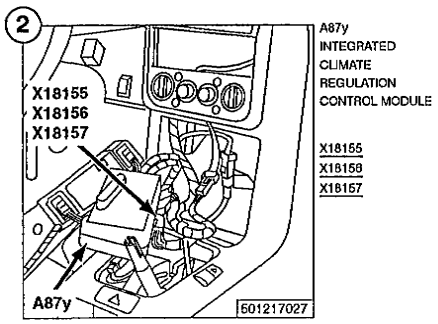
ELECTRICAL CONTROL MODULE LOCATIONS





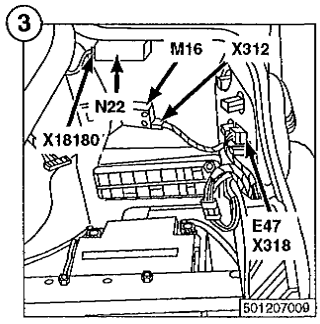
1 N4 ON-BOARD COMPUTER

X1070
X1071



2 A87y INTEGRATED CLIMATE REGULATION CONTROL MODULE

X18155
X18156
X18157



3 E47 RIGHT TRUNK LIGHT ASSEMBLY

X312
X318
X18180

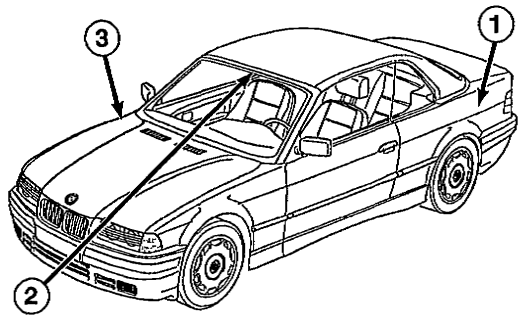
M16 GAS FILLER LOCK MOTOR

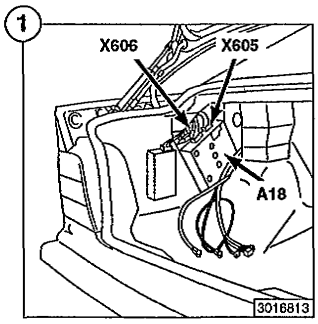
N22 CD CHANGER

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COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

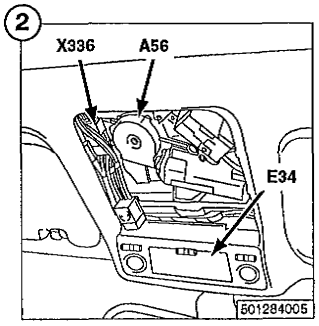




A18
HIFI AMPLIFIER

X605
X606

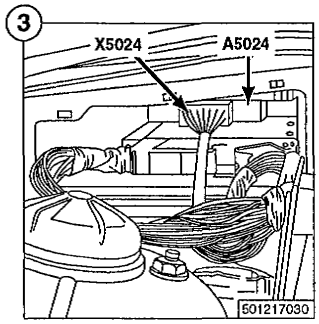
FOUR-DOOR



A56
SUNROOF CONTROL
ASSEMBLY

E34
FRONT DOME
LIGHT/
MAP READING
ASSEMBLY

X336



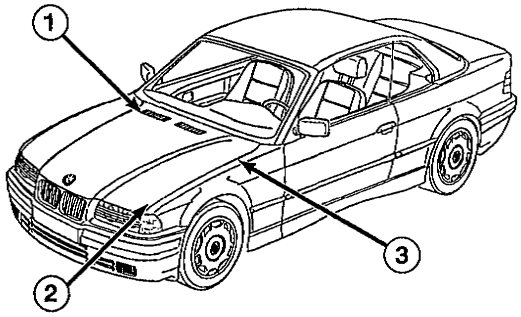
A5024
VARIABLE
CAMSHAFT
CONTROL MODULE
(VANOS)

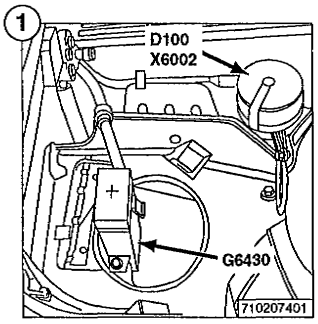
X5024

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BMW 3 COMPONENT LOCATION VIEWS

B(+)

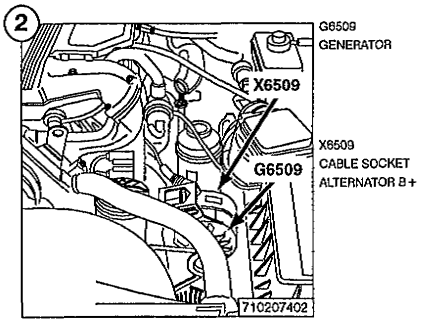




D100
DATA LINK
CONNECTOR

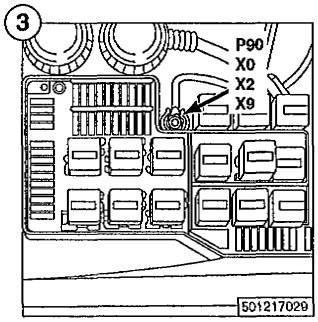
G6430
B+
JUMP START
JUNCTION POINT

X6002



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+



P90
FRONT POWER
DISTRIBUTION
BOX

X0
B+
JUNCTION POINT

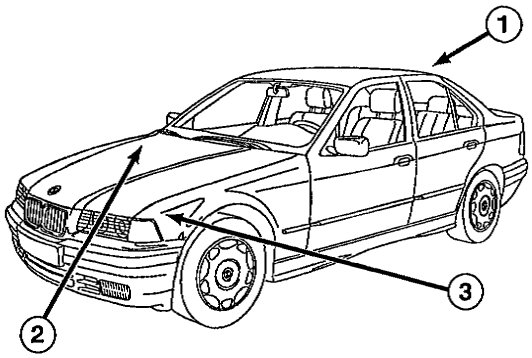
X2
BATTERY
B+ START POINT

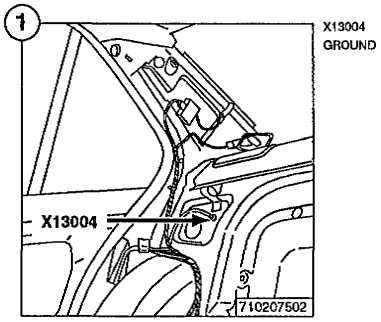
X9
B+
JUNCTION POINT

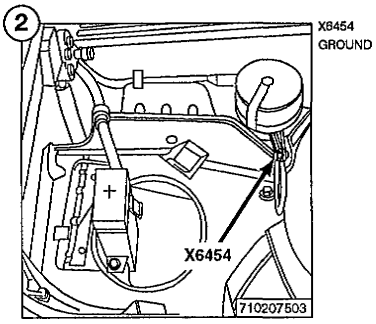
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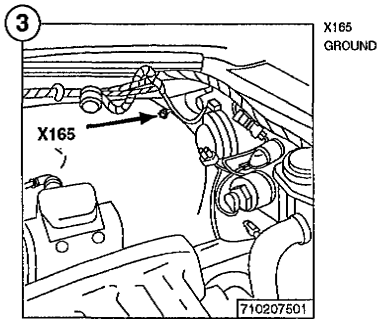
COMPONENT LOCATION VIEWS

B(-)





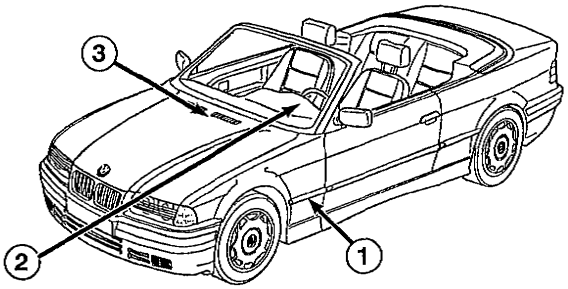


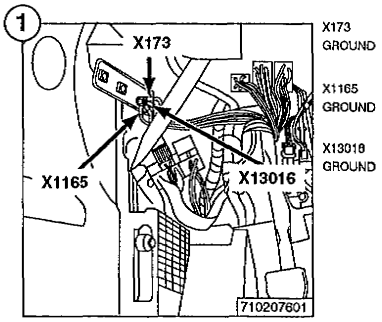


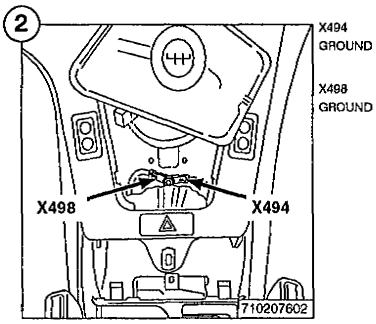
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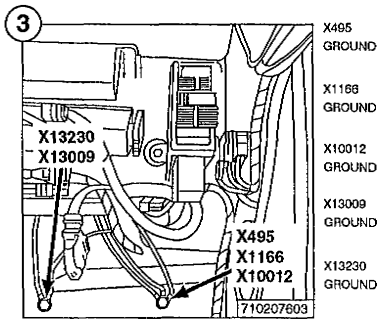
BMW 3 COMPONENT LOCATION VIEWS

B(-)



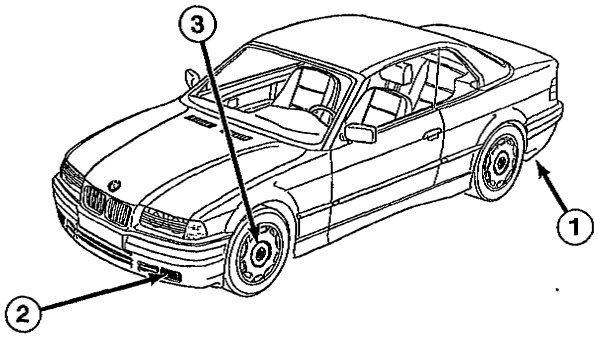


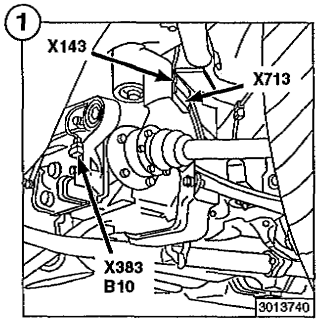




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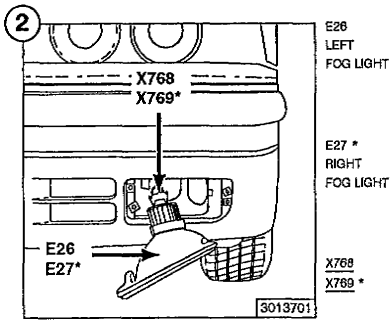
COMPONENT LOCATION VIEWS





B10
VEHICLE
SPEED SENSOR

X143
X383
X713

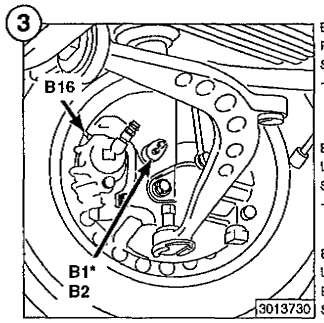


E26
LEFT
FOG LIGHT

E27 *
RIGHT
FOG LIGHT

X768
X769 *

* RH similar



B1 *
RIGHT FRONT
SPEED SENSOR
- ABS

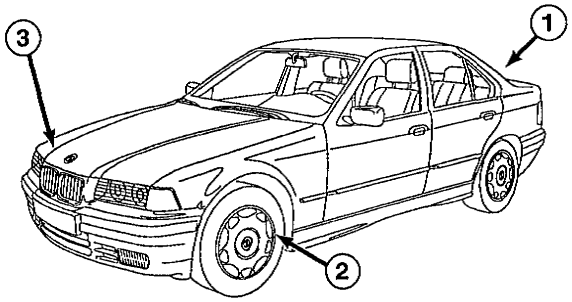
B2
LEFT FRONT
SPEED SENSOR
- ABS

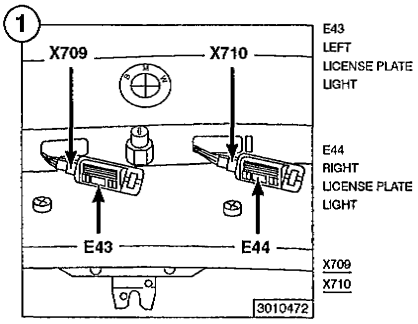
B16
LEFT FRONT
BRAKE PAD
SENSOR

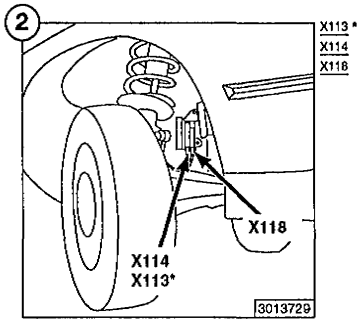
* RH similar

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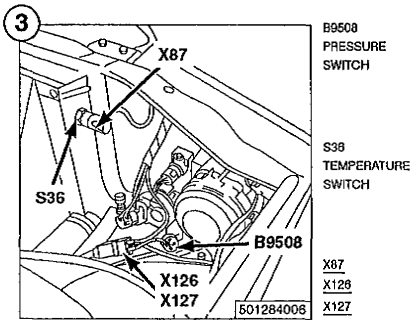
COMPONENT LOCATION VIEWS





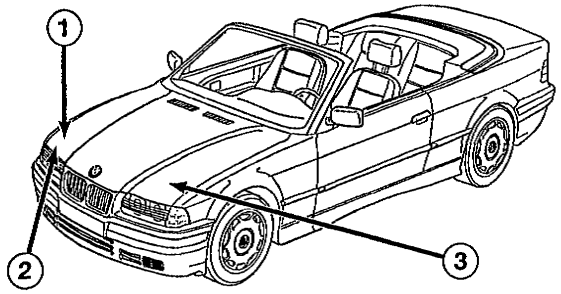


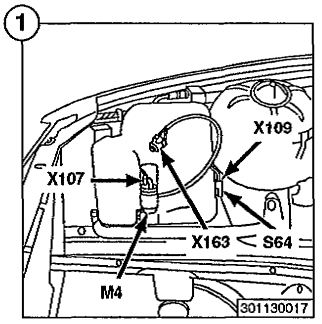
* RH similar



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COMPONENT LOCATION VIEWS

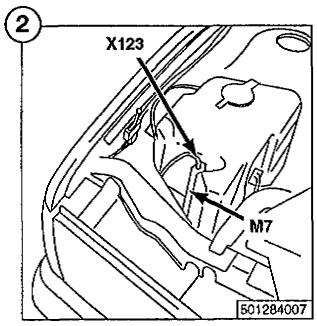




M4
WASHER PUMP

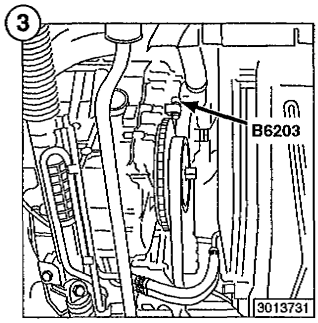
S64
WASHER
FLUID LEVEL
SWITCH

X107
X109
X163



M7
HEADLIGHT/
FOG LIGHT
WASHER PUMP

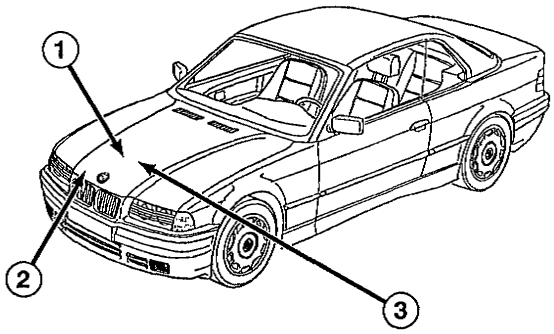
X123

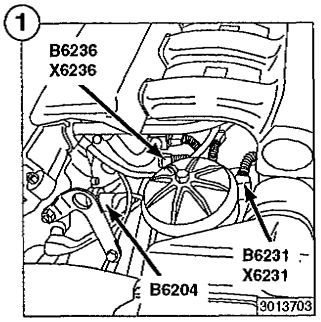


B6203
CRANKSHAFT
POSITION/RPM
SENSOR

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COMPONENT LOCATION VIEWS



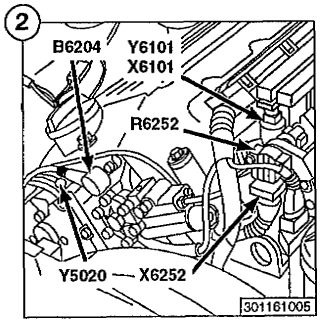


B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) X6231 X6236

B6231 OIL PRESSURE SWITCH

B6236 ENGINE COOLANT TEMPERATURE SENSOR

325i

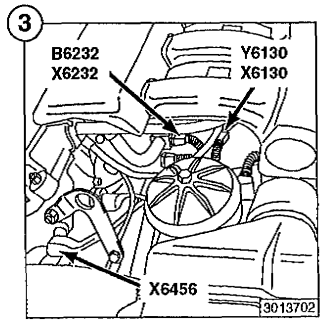


B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) Y6101 CYL. 1 FUEL INJECTION VALVE

R6252 THROTTLE POSITION SENSOR X6101 X6252

Y5020 VARIABLE CAM-SHAFT CONTROL VALVE 1

M3



B6232 ENGINE COOLANT TEMPERATURE SENSOR

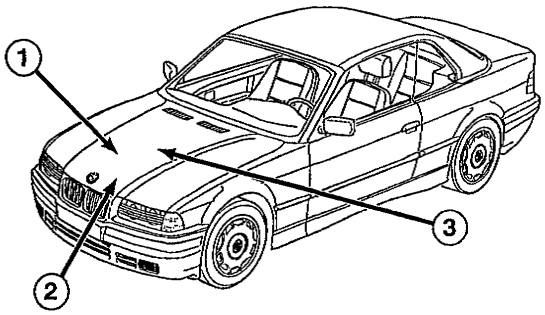
Y6130 IDLE SPEED CONTROL VALVE

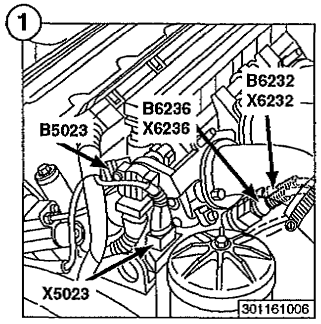
X6456 GROUND X6130 X6232

325i

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COMPONENT LOCATION VIEWS



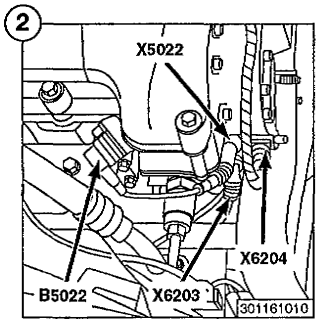


B5023 VARIABLE CAM-SHAFT CONTROL SENSOR 2 — X5023 X6232 X6236

B6232 ENGINE COOLANT TEMPERATURE SENSOR

B6236 ENGINE COOLANT TEMPERATURE SENSOR

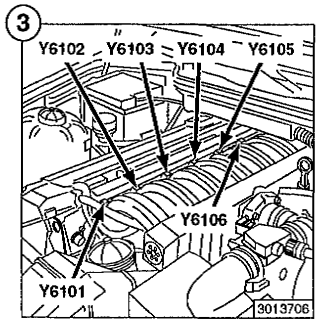
M3



B5022 VARIABLE CAM-SHAFT CONTROL SENSOR 1

X5022 X6203 X6204

M3



Y6101 CYL. 1 FUEL INJECTION VALVE

Y6102 CYL. 2 FUEL INJECTION VALVE

Y6103 CYL. 3 FUEL INJECTION VALVE

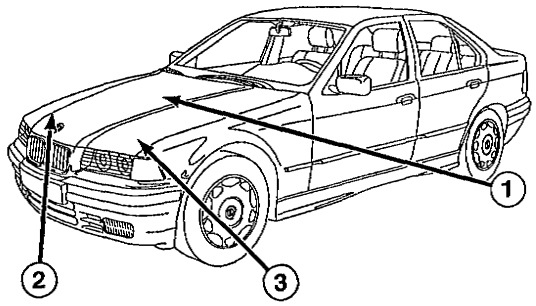
Y6104 CYL. 4 FUEL INJECTION VALVE

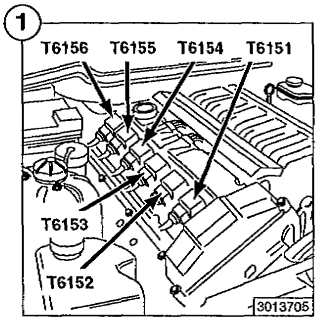
Y6105 CYL. 5 FUEL INJECTION VALVE

Y6106 CYL. 6 FUEL INJECTION VALVE

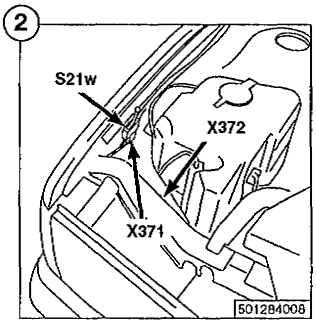
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COMPONENT LOCATION VIEWS



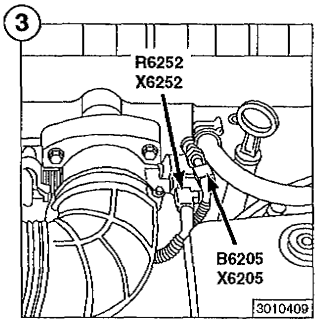


T6151 CYL. 1 IGNITION COIL
T6154 CYL. 4 IGNITION COIL
T6152 CYL. 2 IGNITION COIL
T6155 CYL. 5 IGNITION COIL
T6153 CYL. 3 IGNITION COIL
T6156 CYL. 6 IGNITION COIL



S21w ENGINE HOOD SWITCH

X371
X372



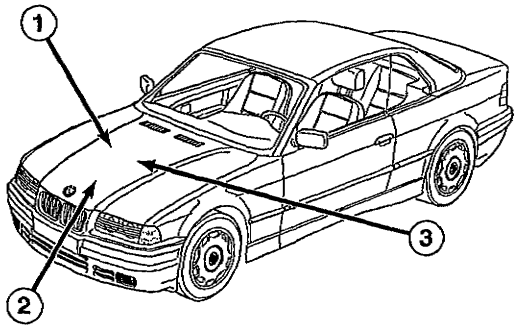
B6205 INTAKE AIR TEMPERATURE SENSOR

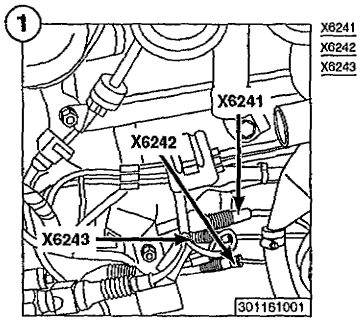
R6252 THROTTLE POSITION SENSOR

X6205
X6252

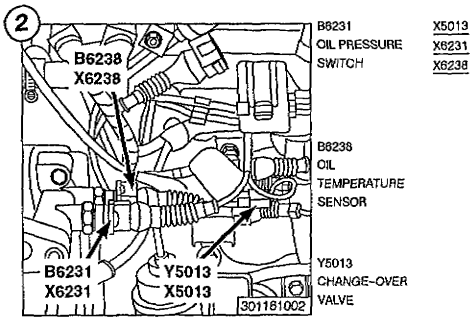
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COMPONENT LOCATION VIEWS

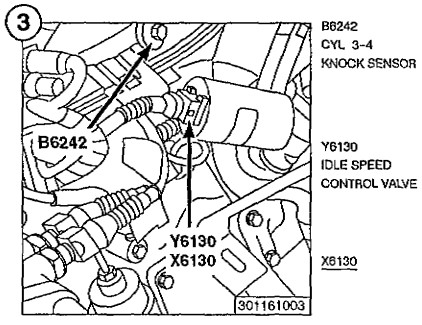




M3



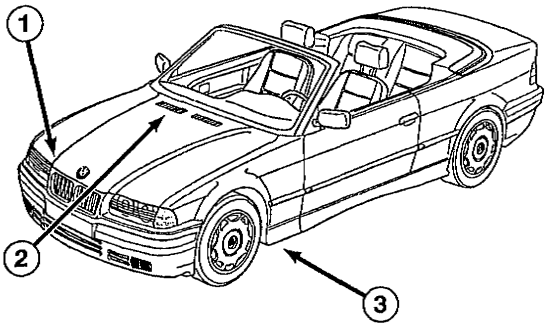
M3

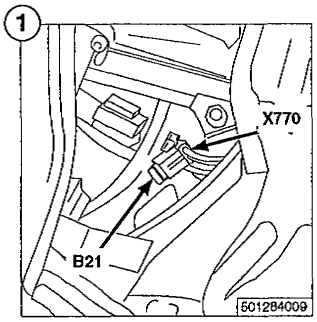


M3

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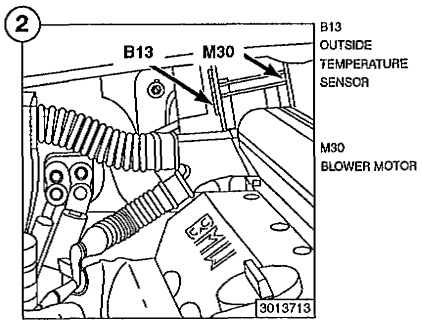
COMPONENT LOCATION VIEWS





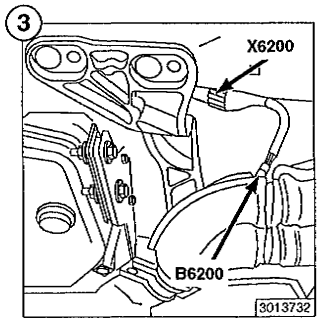
B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



B13
OUTSIDE
TEMPERATURE
SENSOR

M30
BLOWER MOTOR

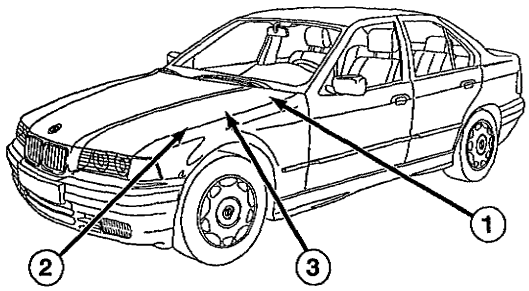


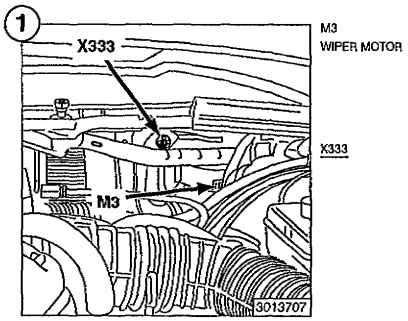
B6200
HEATED
OXYGEN SENSOR

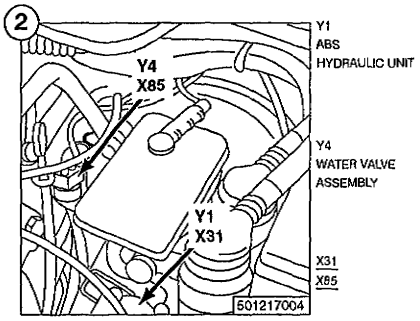
X6200

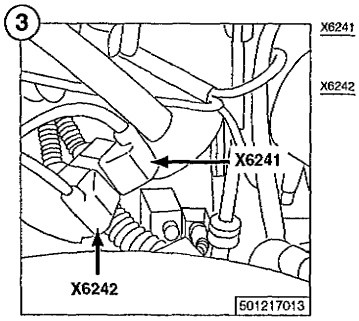
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COMPONENT LOCATION VIEWS



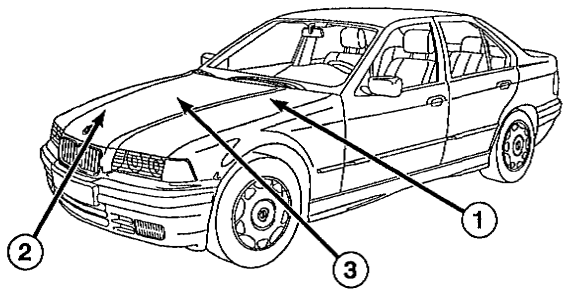


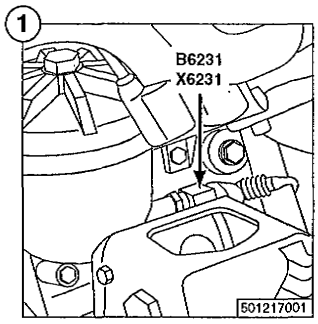




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COMPONENT LOCATION VIEWS

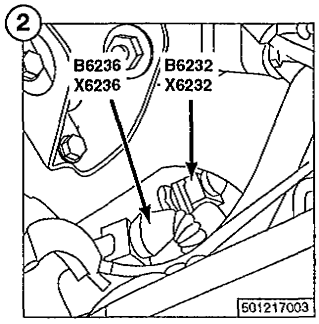




B6231
OIL PRESSURE SWITCH

X6231

318I

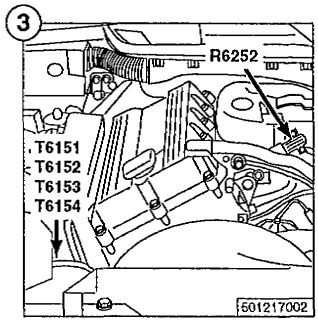


B6232
ENGINE COOLANT TEMPERATURE SENSOR

B6236
ENGINE COOLANT TEMPERATURE SENSOR

X6232
X6236

318I



R6252
THROTTLE POSITION SENSOR

T6151
CYL. 1 IGNITION COIL

T6152
CYL. 2 IGNITION COIL

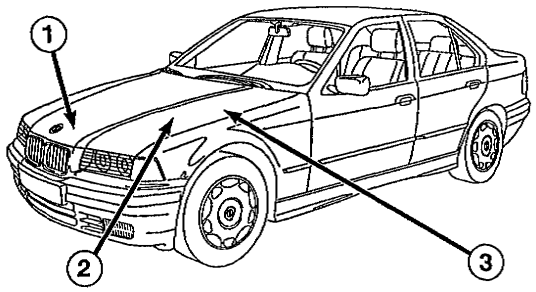
T6153
CYL. 3 IGNITION COIL

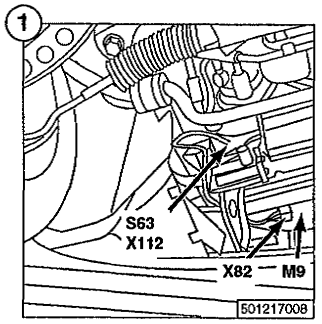
T6154
CYL. 4 IGNITION COIL

318I

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COMPONENT LOCATION VIEWS



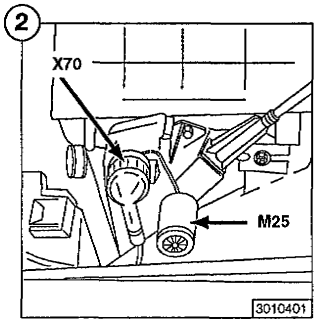


M9
AUXILIARY
FAN MOTOR

S63
ENGINE COOLANT
LEVEL SWITCH

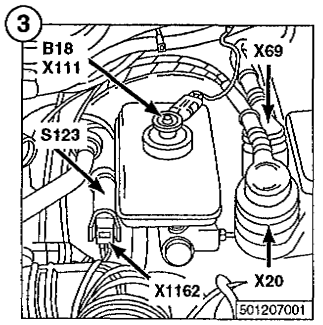
X82
X112

318i



M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70



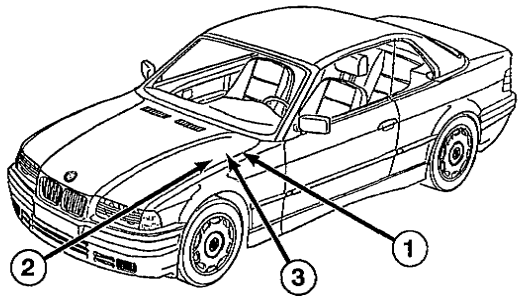
B18
BRAKE FLUID
LEVEL SWITCH

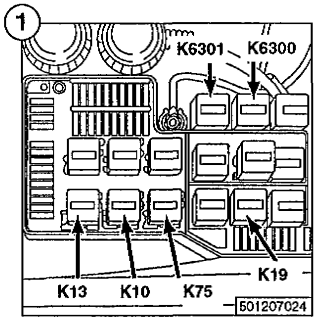
S123
ABS PEDAL
TRAVEL SENSOR

X20
X69
X111
X1162

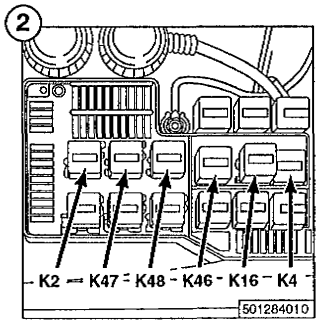
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COMPONENT LOCATION VIEWS

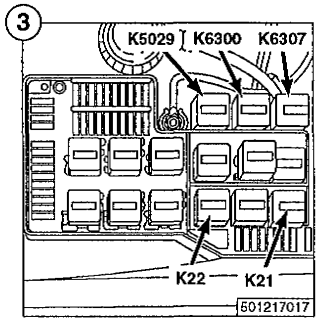




K10 ABS RELAY	K75 ABS PUMP MOTOR RELAY
K13 REAR DEFOGGER RELAY	K6300 ENGINE CONTROL MODULE RELAY
K19 COMPRESSOR CONTROL RELAY	K6301 CYL. 1-6 FUEL PUMP RELAY



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

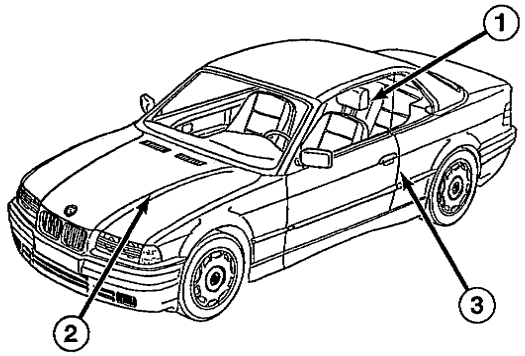


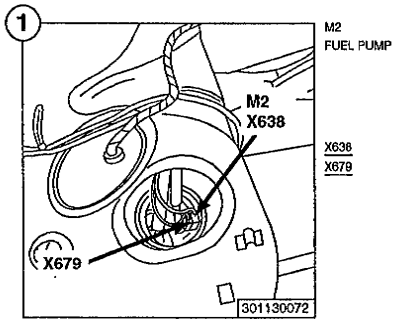
K21 NORMAL SPEED RELAY	K6300 ENGINE CONTROL MODULE RELAY
K22 HIGH SPEED RELAY	K6307 FUEL PUMP/START IDENTIFICATION RELAY
K5029 DOUBLE RELAY	

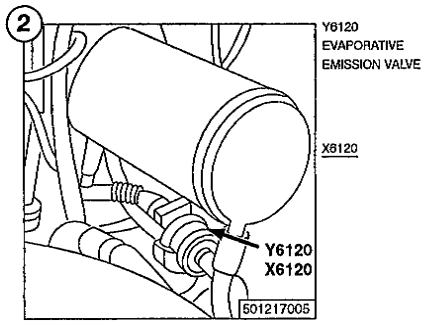
M3

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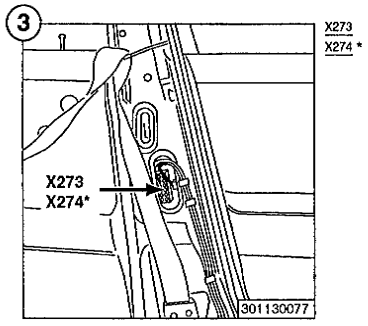
COMPONENT LOCATION VIEWS







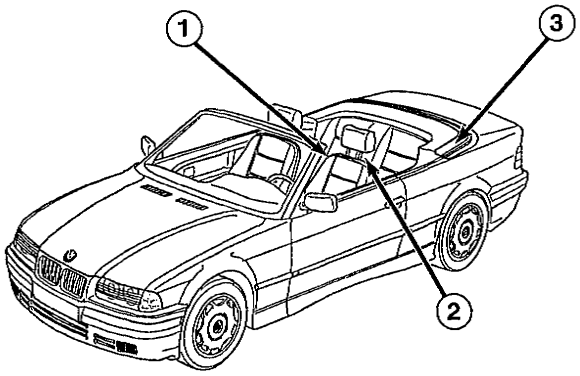
318I

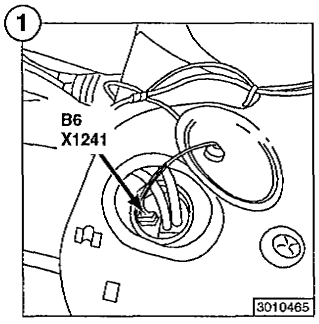


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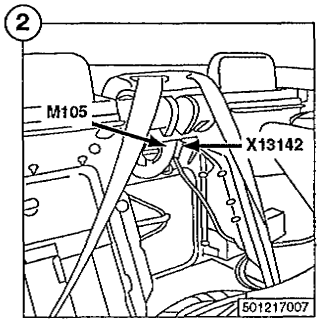
COMPONENT LOCATION VIEWS





B6
FUEL LEVEL
SENSOR

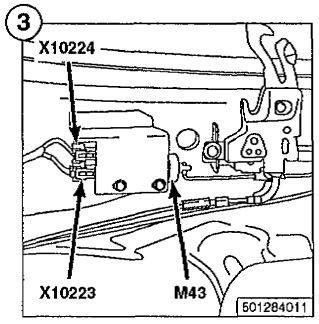
X1241



M105
REAR WINDOW
BLOWER

X13142

convertible



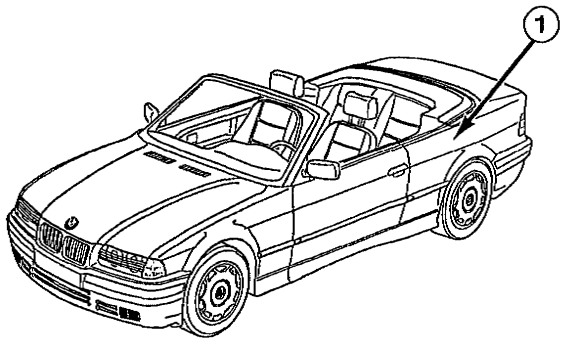
M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

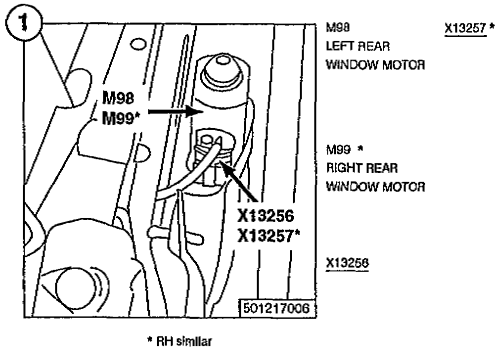
X10223
X10224

convertible

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COMPONENT LOCATION VIEWS

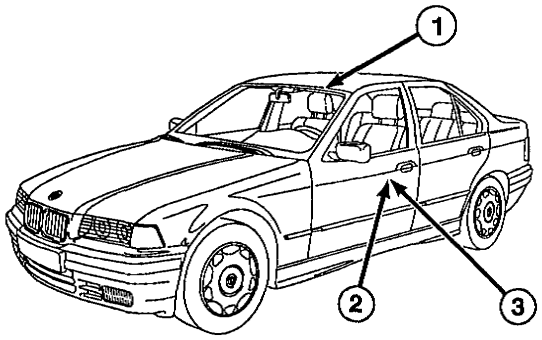


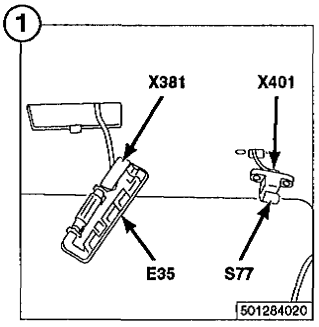


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COMPONENT LOCATION VIEWS

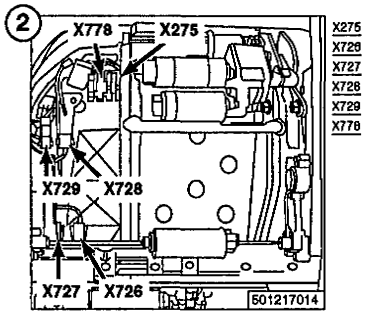




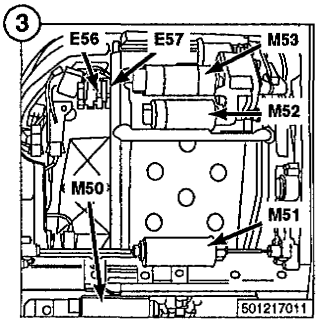
E35
DRIVER'S
MAKEUP
MIRROR LIGHT

S77
DRIVER'S
MAKEUP
MIRROR SWITCH

X381
X401



X275
X728
X727
X726
X729
X778



E56
DRIVER'S
SEATBACK
HEATER

M51
DRIVER'S SEAT
MOVEMENT MOTOR

E57
DRIVER'S
SEAT HEATER

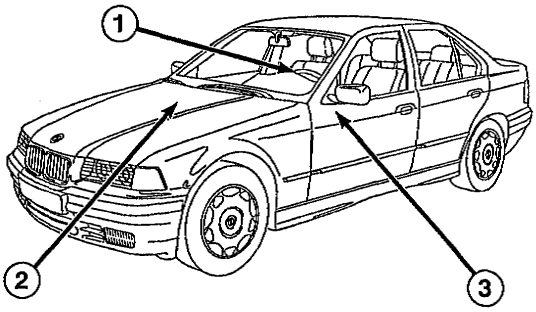
M52
DRIVER'S SEAT
HEIGHT MOTOR

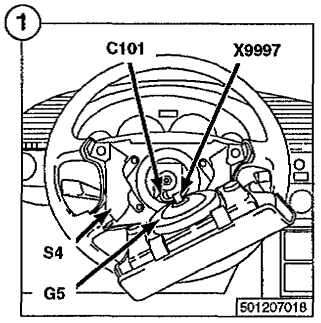
M50
DRIVER'S
SEAT CUSHION
TILT MOTOR

M53
DRIVER'S
SEATBACK
RECLINER MOTOR

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COMPONENT LOCATION VIEWS

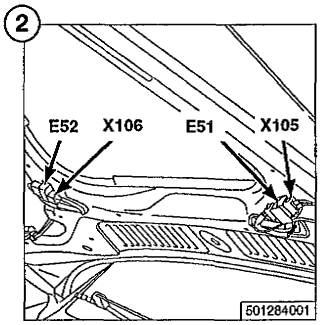




C101 X9997
CONTACT RING

G5
DRIVER'S AIR BAG GAS GENERATOR

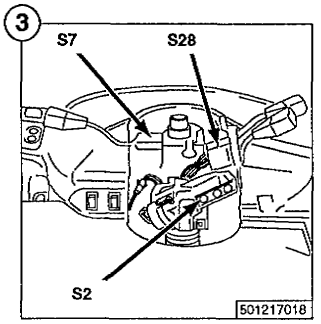
S4
HORN SWITCH



E51
LEFT WASHER JET HEATER

E52
RIGHT WASHER JET HEATER

X105
X106



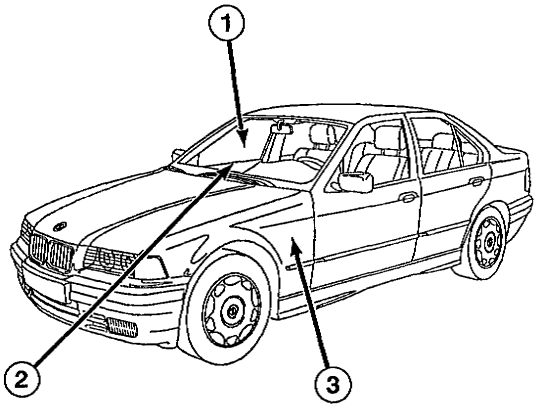
S2
IGNITION SWITCH

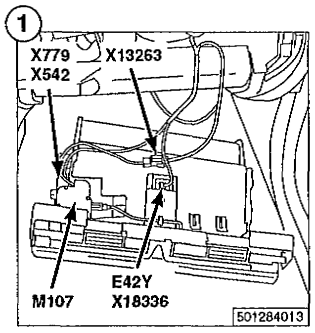
S7
COMBINATION SWITCH

S28
CRUISE CONTROL SWITCH

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COMPONENT LOCATION VIEWS

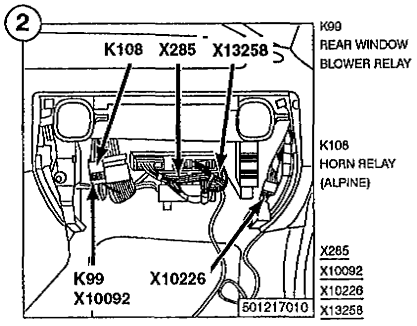




E42y
GLOVE BOX LIGHT/SWITCH

M107
GLOVE BOX LOCK MOTOR

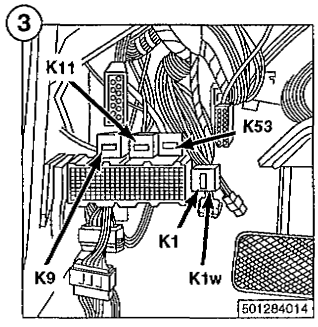
X542
X779
X13263
X18336



K99
REAR WINDOW BLOWER RELAY

K108
HORN RELAY (ALPINE)

X285
X10092
X10226
X13258



K1
STARTER RELAY

K1w*
STARTER IMMOBILIZATION RELAY

K9
UNLOADER RELAY, TERMINAL 15

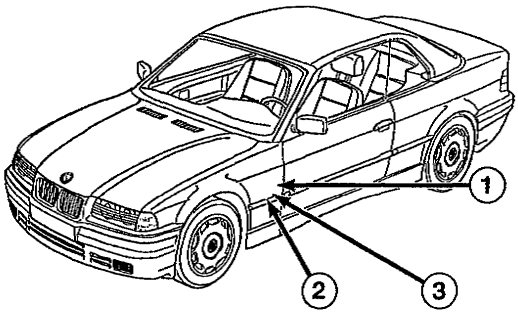
K53
WIPER MOTOR RELAY

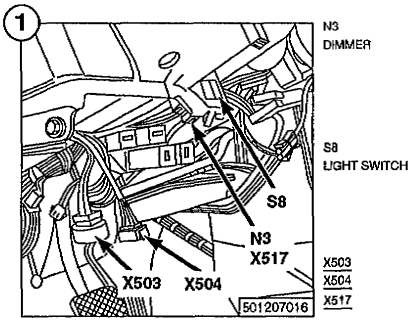
K11
WIPER RELAY

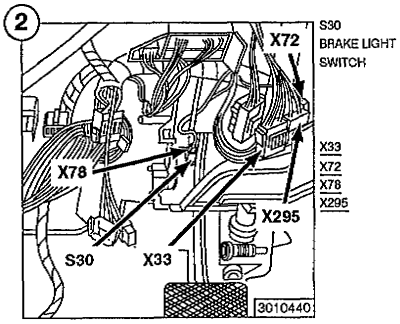
* LATE PRODUCTION

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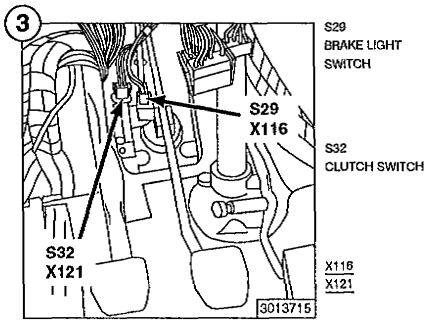
COMPONENT LOCATION VIEWS







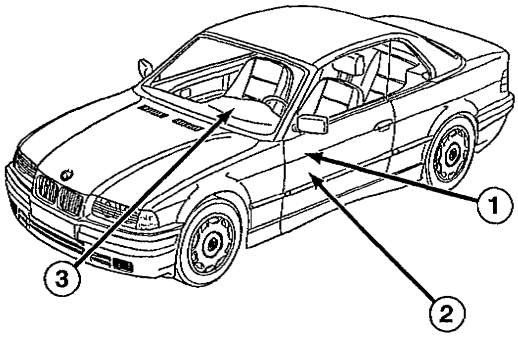
AUTOMATIC

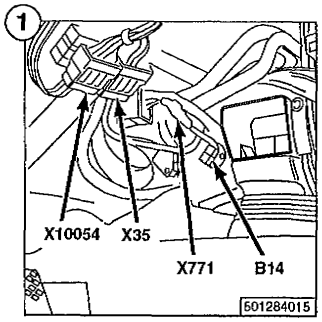


MANUAL

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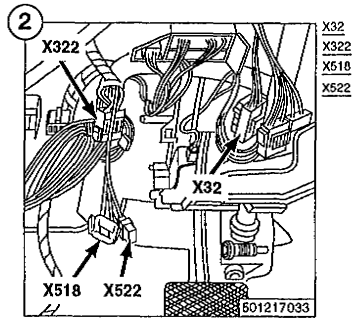
COMPONENT LOCATION VIEWS



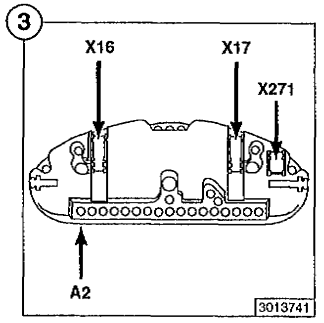


B14
EVAPORATOR
TEMPERATURE
SENSOR

X35
X771
X10054



X32
X322
X518
X522

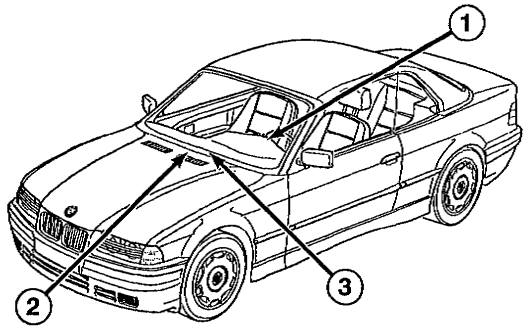


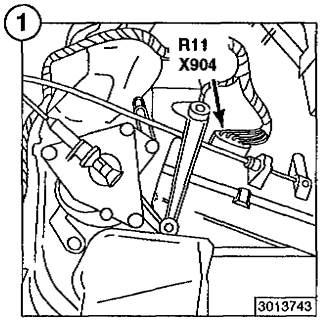
A2
INSTRUMENT
CLUSTER

X16
X17
X271

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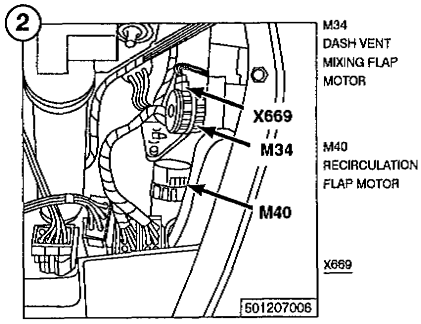
COMPONENT LOCATION VIEWS





R11
BLOWER
RESISTORS

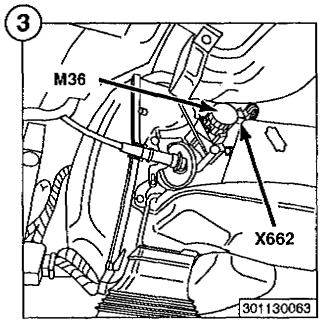
X904



M34
DASH VENT
MIXING FLAP
MOTOR

M40
RECIRCULATION
FLAP MOTOR

X669

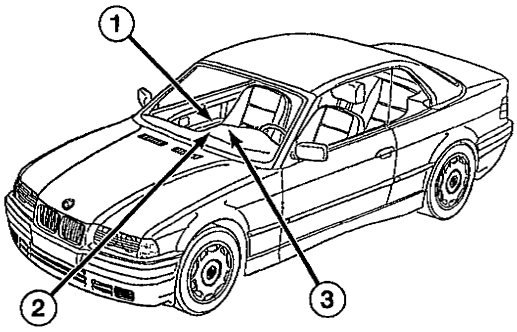


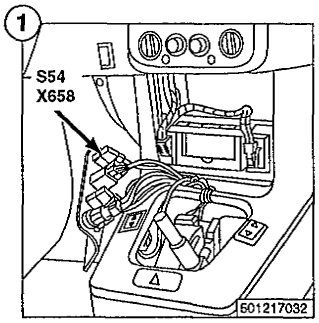
M36
FRESH AIR
FLAP MOTOR

X662

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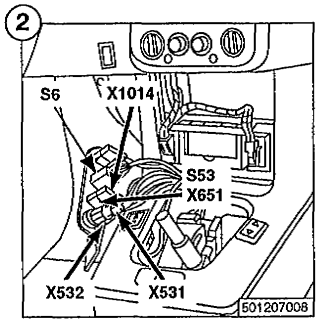
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

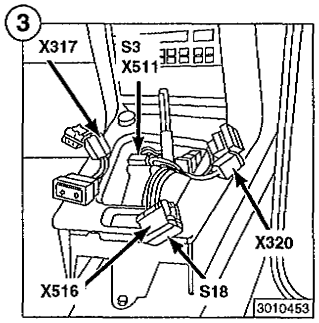
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014



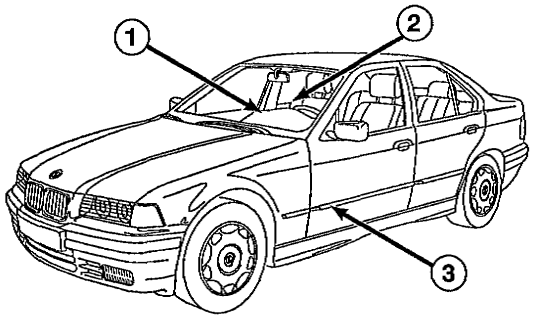
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

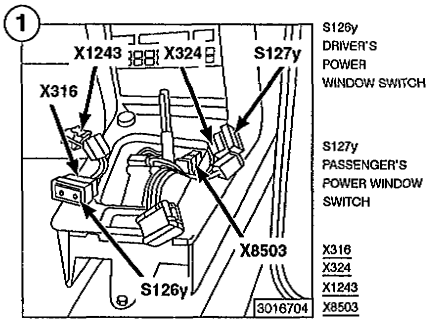
S18
HAZARD SWITCH

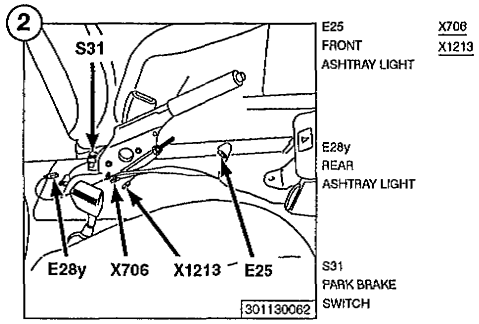
X317
X320
X511
X516

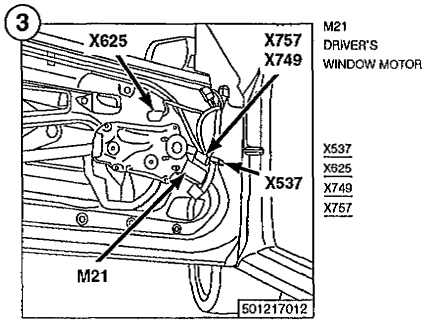
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COMPONENT LOCATION VIEWS



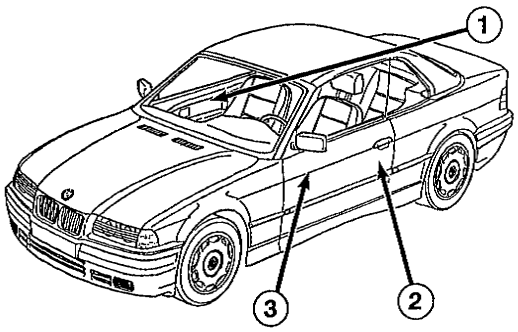


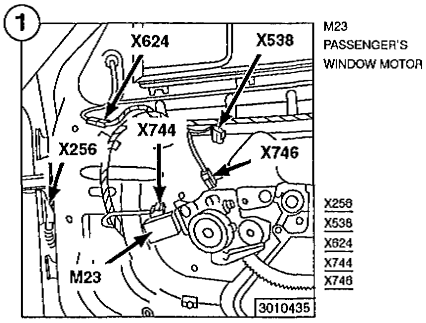


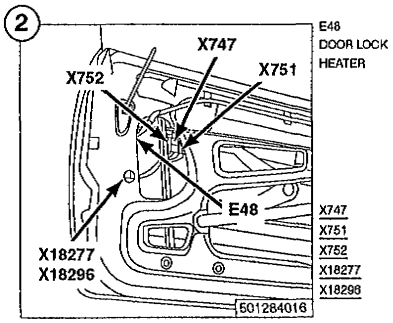


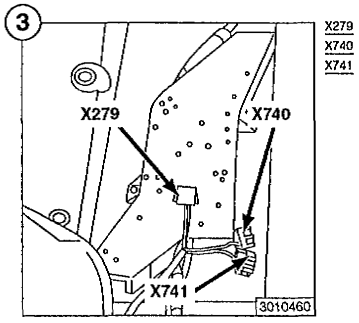
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COMPONENT LOCATION VIEWS



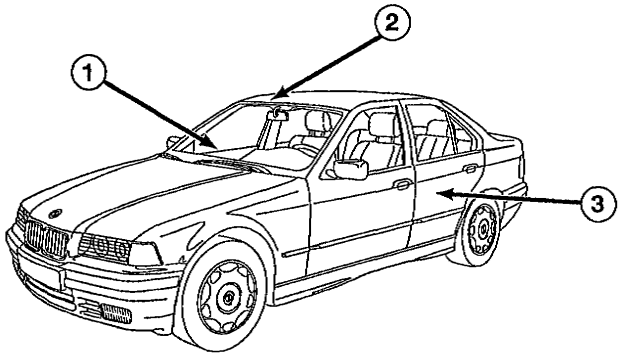


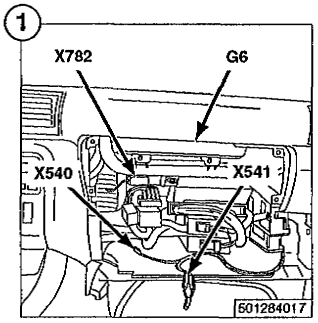




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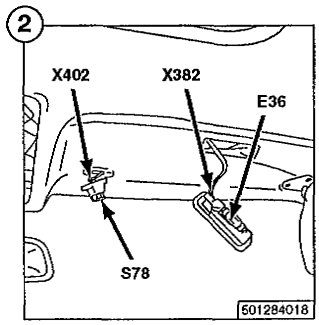
COMPONENT LOCATION VIEWS





G6
PASSENGER'S AIR BAG GAS GENERATOR 1

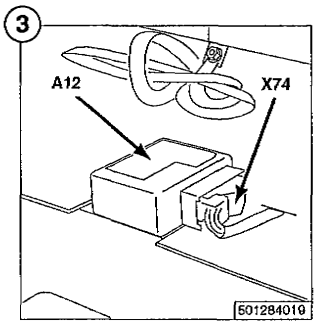
X540
X541
X782



E36
PASSENGER'S MAKEUP MIRROR LIGHT

S78
PASSENGER'S MAKEUP MIRROR SWITCH

X382
X402

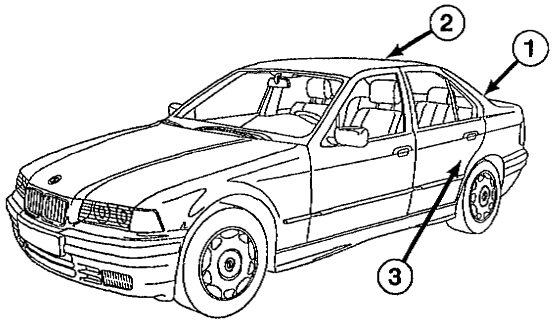


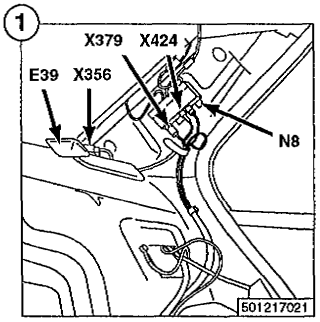
A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X74

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COMPONENT LOCATION VIEWS

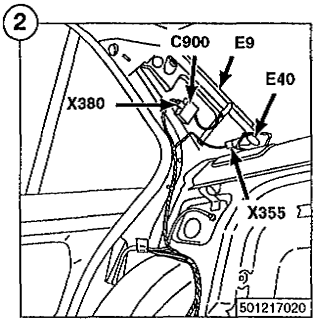




E39
LEFT REAR
INTERIOR LIGHT

N8
ANTENNA
AMPLIFIER
AM/FM

X356
X379
X424

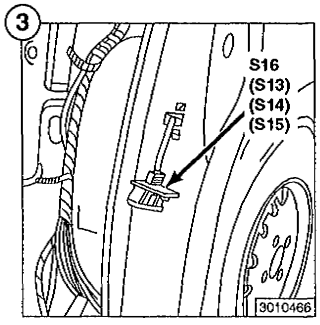


C900
SUPPRESSION
FILTER

X355
X380

E9
REAR
DEFOGGER 1

E40
RIGHT REAR
INTERIOR LIGHT



S13
PASSENGER'S
DOOR JAMB
SWITCH

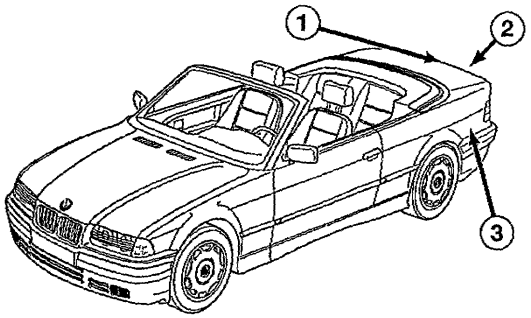
S16
LEFT REAR
DOOR JAMB
SWITCH

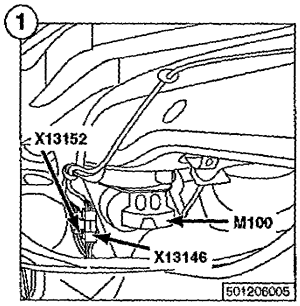
S14
DRIVER'S
DOOR JAMB
SWITCH

S15
REAR RIGHT
DOOR JAMB
SWITCH

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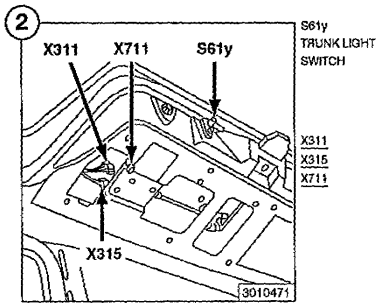
COMPONENT LOCATION VIEWS





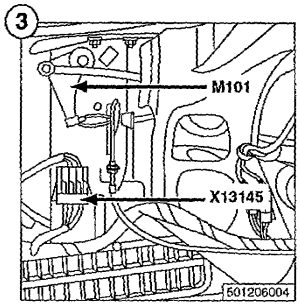
M100
CONVERTIBLE TOP
STORAGE LID
MOTOR

X13146
X13152



S61y
TRUNK LIGHT
SWITCH

X311
X315
X711



M101
CONVERTIBLE
TOP MOTOR

X13145

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SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X276	FRONT	8000.0-02
X313-X314	REAR	8000.0-03
X313-X314	REAR, CONVERTIBLE	8000.0-04
X428-X481	REAR	8000.0-03
X428	REAR, CONVERTIBLE	8000.0-04
X441-X456	REAR, CONVERTIBLE	8000.0-04
X460-X462	REAR, CONVERTIBLE	8000.0-04
X465-X481	REAR, CONVERTIBLE	8000.0-04
X530-X595	FRONT	8000.0-02
X805	REAR	8000.0-03
X805	REAR, CONVERTIBLE	8000.0-04
X824-X830	RADIO	NOT SHOWN
X849-X851	DRIVER'S DOOR	NOT SHOWN
X876-X878	RADIO	NOT SHOWN
X906	IHKR	NOT SHOWN
X942	PASSENGER'S DOOR	NOT SHOWN
X1015-X1164	FRONT	8000.0-02
X1167	REAR	8000.0-03
X1168-X1192	FRONT	8000.0-02
X1212-X1218	REAR	8000.0-03
X1212-X1238	REAR, CONVERTIBLE	8000.0-04
X1225-X1233	FRONT	8000.0-02
X1226-X1235	REAR	8000.0-03
X1258	FRONT	8000.0-02
X1299	REAR	8000.0-03
X1382-X1383	RADIO	NOT SHOWN
X1387-X1396	REAR	8000.0-03
X1387-X1396	REAR, CONVERTIBLE	8000.0-04
X5010-X5011	S50 ENGINE	8000.0-07
X5018-X5035	S50 ENGINE	8000.0-07
X6410	M42 ENGINE	8000.0-05
X6410-X6492	S50 ENGINE	8000.0-07
X6410	M50 ENGINE	8000.0-06
X6411	M50 ENGINE	8000.0-06
X6458-X6492	M42 ENGINE	8000.0-05
X6458-X6461	M50 ENGINE	8000.0-06
X6475	M50 ENGINE	8000.0-06
X6491	M50 ENGINE	8000.0-06
X6492	M50 ENGINE	8000.0-06
X6810-X6866	M42 ENGINE	8000.0-05
X6810-X6866	S50 ENGINE	8000.0-07
X6810	M50 ENGINE	8000.0-06
X6820-6822	M50 ENGINE	8000.0-06
X6830-X6831	M50 ENGINE	8000.0-06
X6832	M42 ENGINE	8000.0-05
X6836	M50 ENGINE	8000.0-06
X6863-X6866	M50 ENGINE	8000.0-06
X6900-X6906	M50 ENGINE	8000.0-06
X6900-X6906	S50 ENGINE	8000.0-07
X8004	M50 ENGINE	8000.0-06
X8004	S50 ENGINE	8000.0-07
X8004-X8576	M42 ENGINE	8000.0-05
X8007	M50 ENGINE	8000.0-06
X8010	M50 ENGINE	8000.0-06
X8015	M50 ENGINE	8000.0-06
X8022	M50 ENGINE	8000.0-06

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SPLICE LOCATION VIEWS

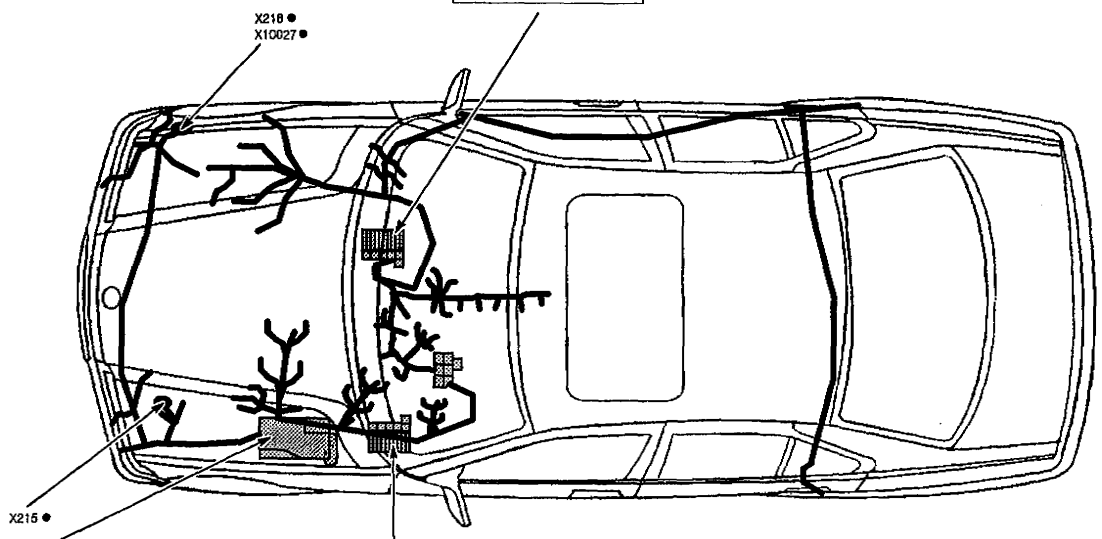
SPLICE LOCATION INDEX

INDEX

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

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SPLICE LOCATION VIEWS
FRONT HARNESS



SPLICE PANEL					
X195 ●	X1149 ●				
X218 ●	X10009 ●				
X222 ●	X10064 ●				
X557 ●	X13115 ●				

SPLICE PANEL					
X184 ●	X245 ●	X1027 ●	X1077 ●	X1177 ●	X10022 ●
X185 ●	X248 ●	X1028 ●	X1152 ●	X1186 ●	X10055 ●
X188 ●	X278 ●	X1036 ●	X1159 ●	X1192 ●	X10100 ●
X187 ●	X530 ●	X1055 ●	X1163 ●	X1233 ●	X18783 ●
X203 ●	X595 ●	X1068 ●	X1164 ●	X10007 ●	X18784 ●
X223 ●	X1015 ●	X1073 ●	X1168 ●	X10020 ●	
X238 ●	X1022 ●	X1076 ●	X1172 ●	X10021 ●	

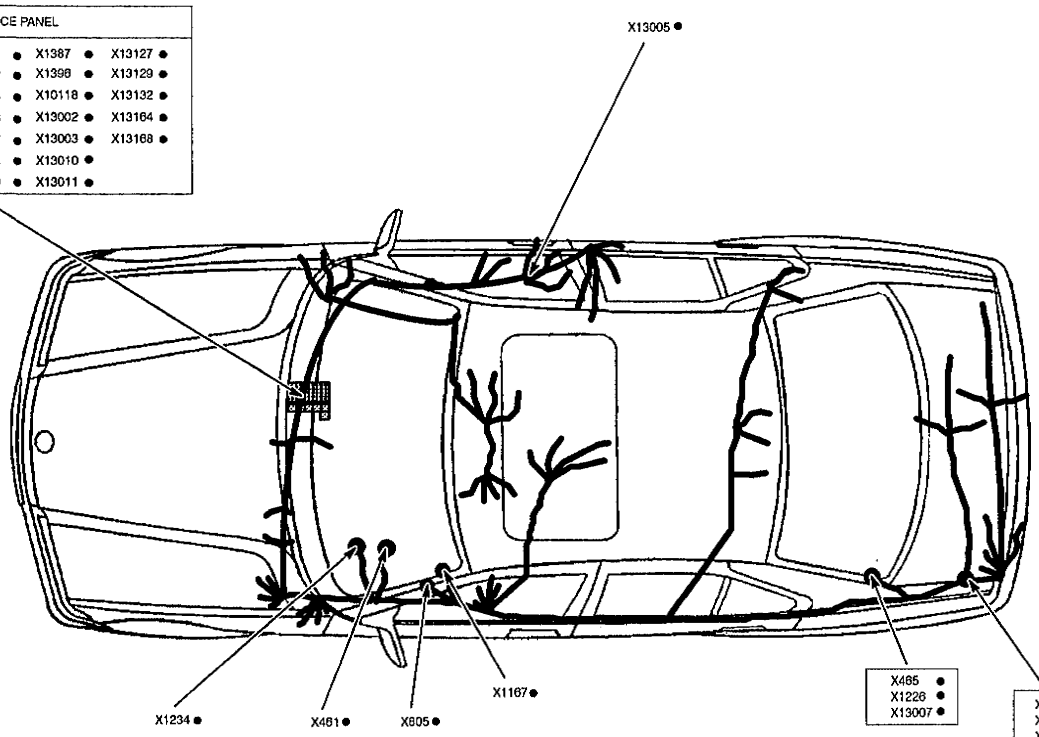
SPLICE PANEL						
X181 ●	X213 ●	X1067 ●	X1179 ●	X10028 ●	X10123 ●	X13021 ●
X182 ●	X228 ●	X1069 ●	X1182 ●	X10029 ●	X10191 ●	X18165 ●
X183 ●	X1019 ●	X1079 ●	X1225 ●	X10060 ●	X10192 ●	
X186 ●	X1029 ●	X1080 ●	X1258 ●	X10061 ●	X10231 ●	
X191 ●	X1047 ●	X1085 ●	X10008 ●	X10103 ●	X10251 ●	
X196 ●	X1065 ●	X1159 ●	X10011 ●	X10104 ●	X10252 ●	
X197 ●	X1066 ●	X1169 ●	X10024 ●	X10120 ●	X11264 ●	

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SPLICE LOCATION VIEWS

REAR HARNESS

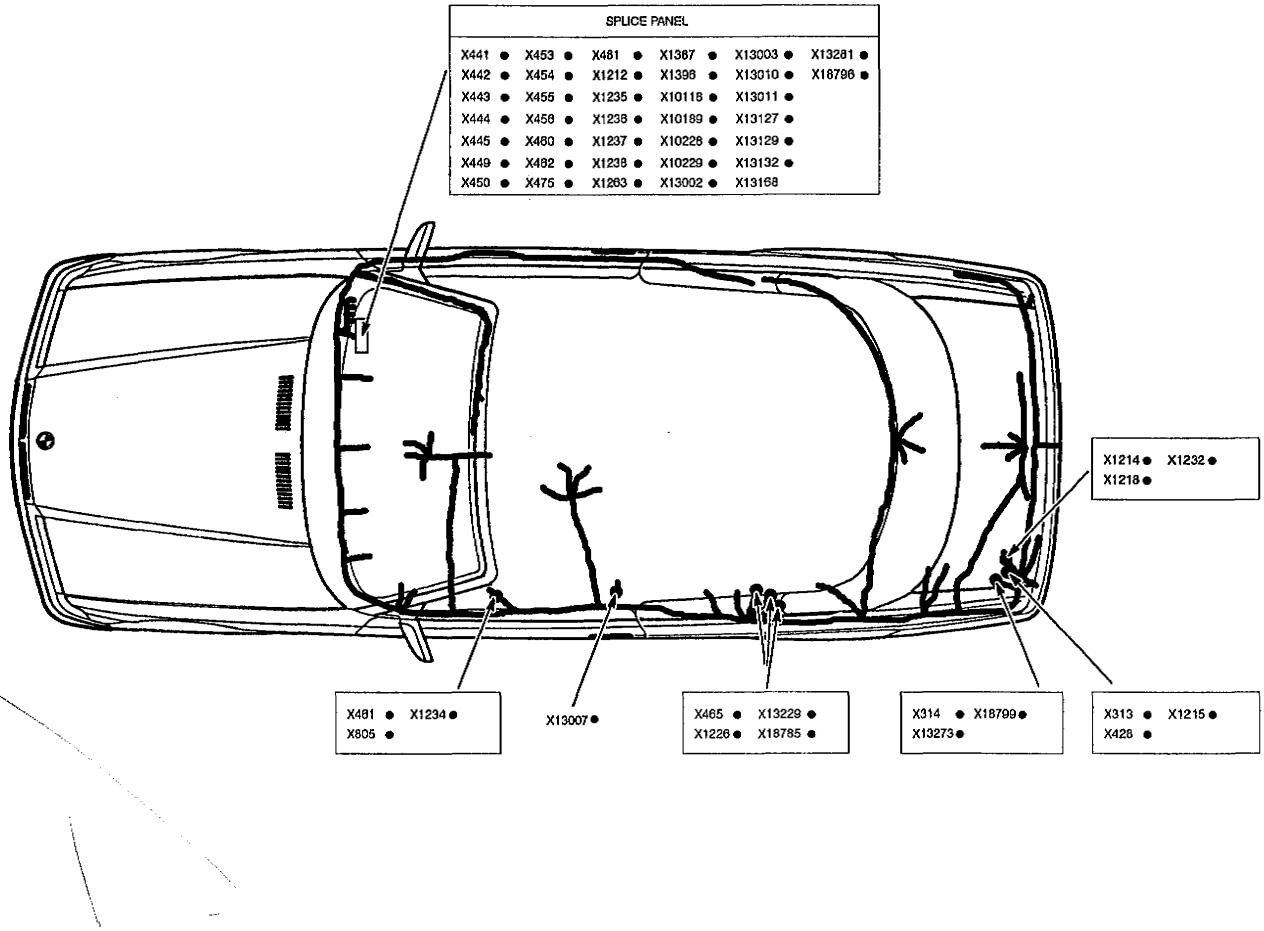
SPLICE PANEL				
X441	X453	X461	X1387	X13127
X442	X454	X1212	X1398	X13129
X443	X455	X1235	X10118	X13132
X444	X456	X1236	X13002	X13164
X445	X460	X1237	X13003	X13168
X449	X462	X1238	X13010	
X450	X475	X1299	X13011	



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SPLICE LOCATION VIEWS

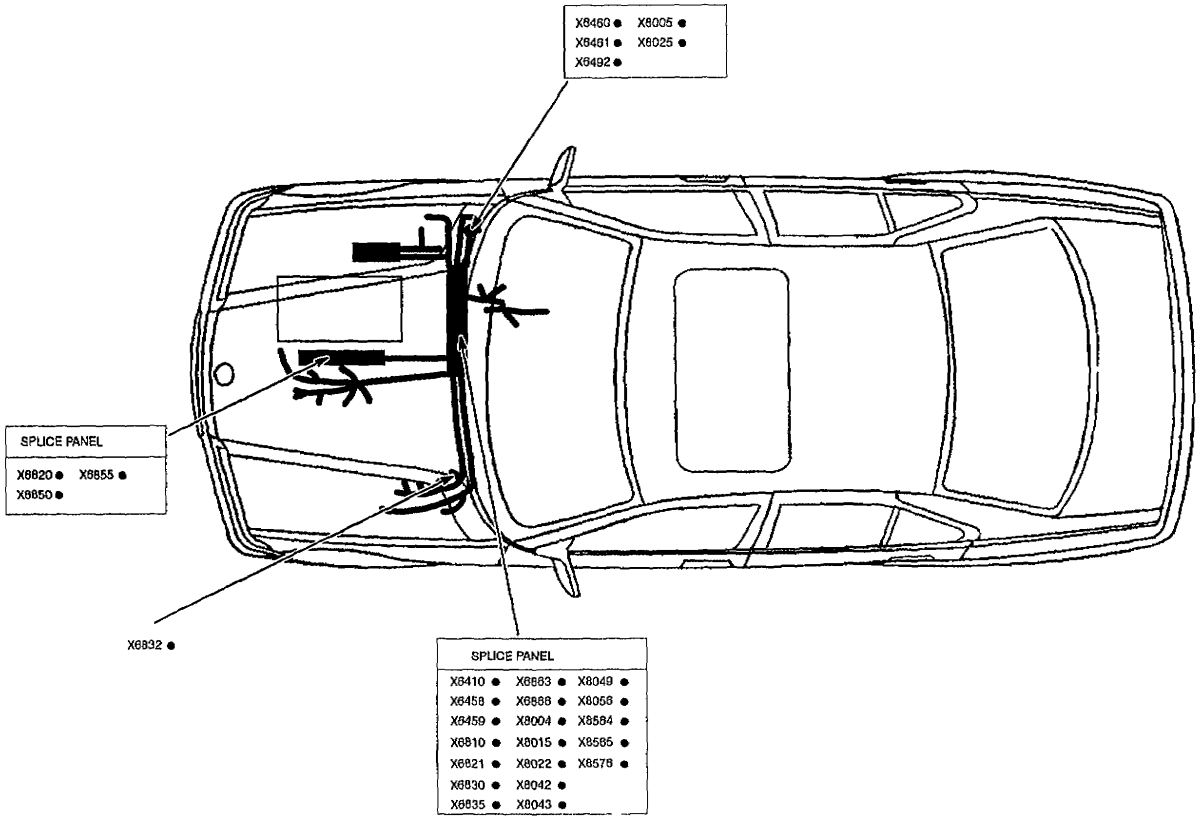
REAR WIRING HARNESS - CONVERTIBLE



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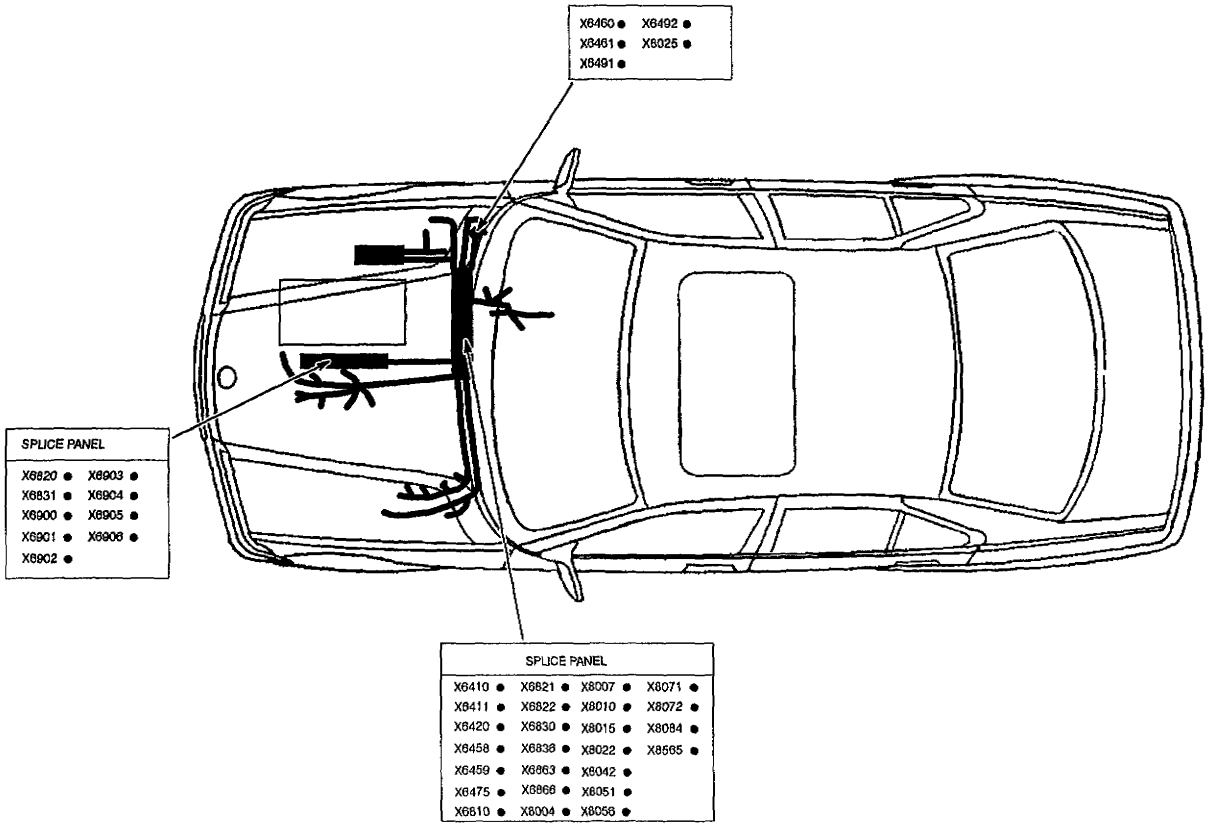
SPLICE LOCATION VIEWS

ENGINE HARNESS M42



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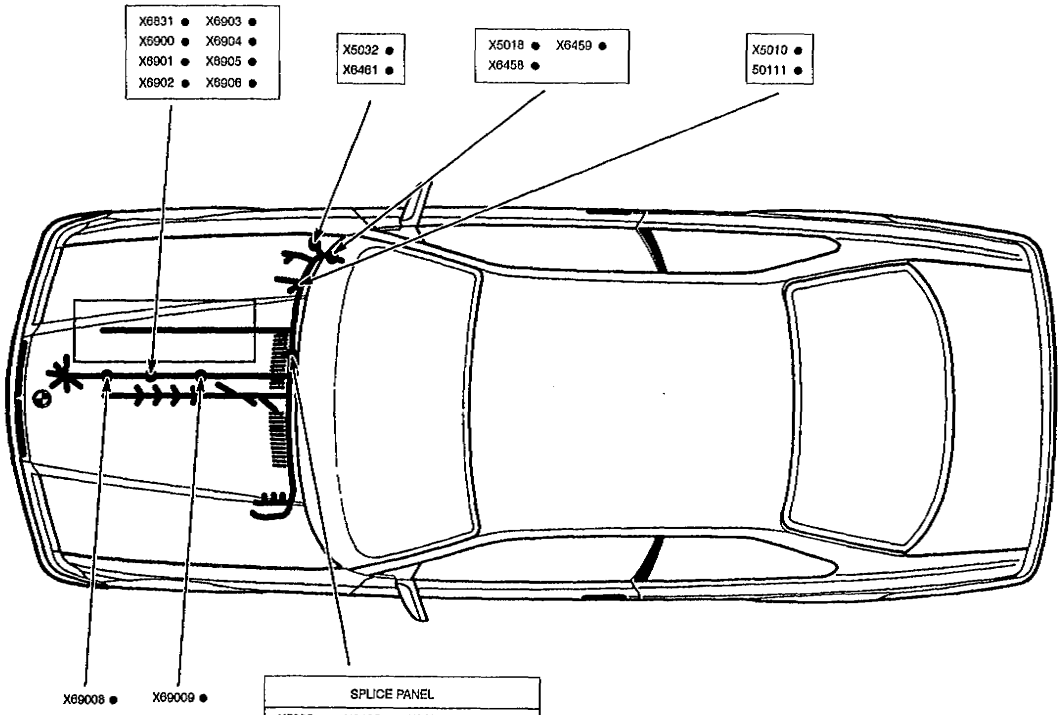
SPLICE LOCATION VIEWS
M50 ENGINE HARNESS



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SPLICE LOCATION VIEWS

ENGINE HARNESS S50



SPLICE PANEL			
X5035	X6482	X6490	X6822
X6410	X6484	X6491	X6835
X6411	X6485	X6492	X6863
X6413	X6488	X6810	X6868
X6463	X6487	X6811	X8004
X6475	X6488	X6820	
X6480	X6489	X6821	

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FIG. 1

B550001.03

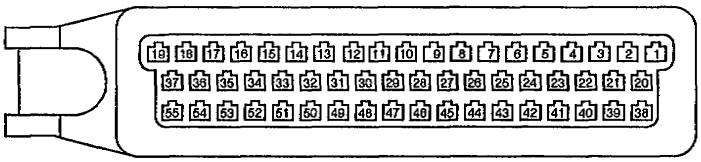


FIG. 2

B260005.00

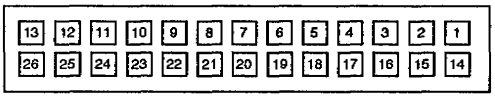


FIG. 3

B150003.00

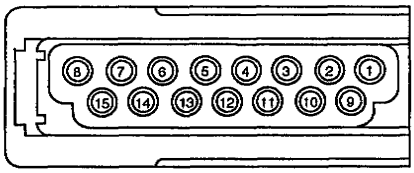
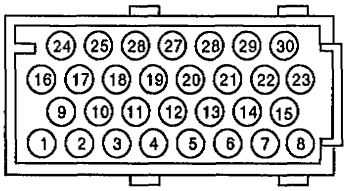


FIG. 4

B300001.00



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CONNECTOR VIEWS

FIG. 1

B030024

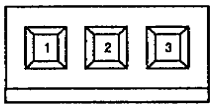


FIG. 2

B120003.00

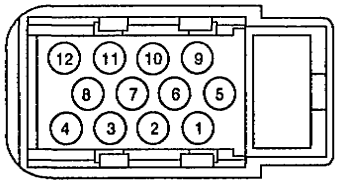


FIG. 3

B120001.00

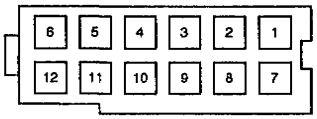


FIG. 4

B080002.00

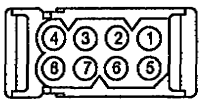


FIG. 5

B180000.00

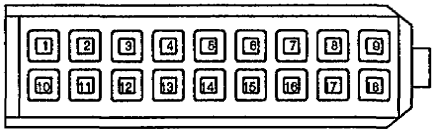
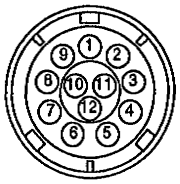


FIG. 6

B120015



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CONNECTOR VIEWS

FIG. 1

B030001.00

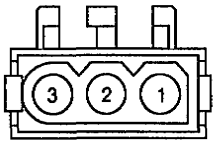


FIG. 2

B080003.00

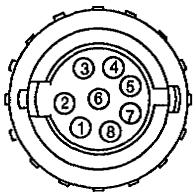


FIG. 3

B170001.00

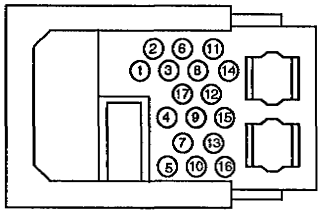


FIG. 4

B100008.00

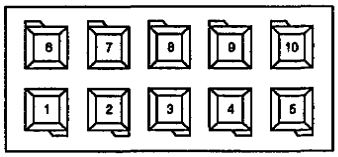


FIG. 5

B030005.00

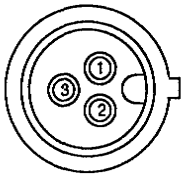
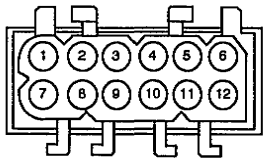


FIG. 6

B120004.01



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CONNECTOR VIEWS

FIG. 1

B040002.00

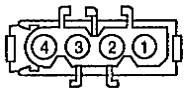


FIG. 2

B050003.00

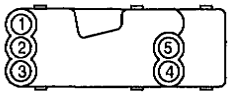


FIG. 3

B040004.00

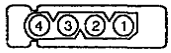


FIG. 4

B040018

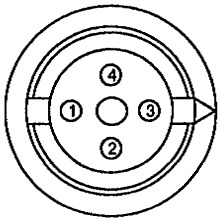


FIG. 5

B080001.00

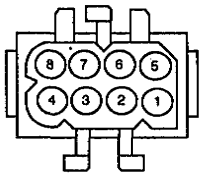
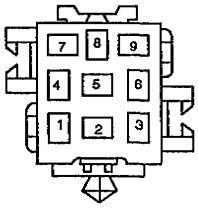


FIG. 6

B090002.00



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CONNECTOR VIEWS

FIG. 1

B210002.00

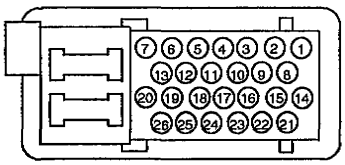


FIG. 2

B060001.02



FIG. 3

B070005.00

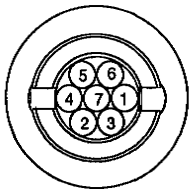


FIG. 4

B200003.00

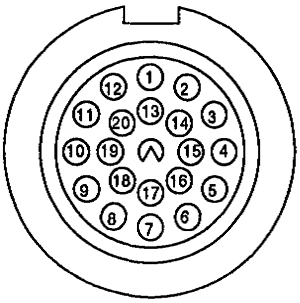


FIG. 5

B060010.01

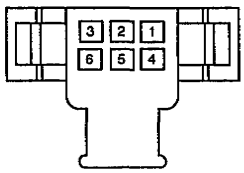


FIG. 6

B030003.02



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CONNECTOR VIEWS

FIG. 1

B060008.00

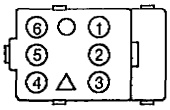


FIG. 2

B250001.01

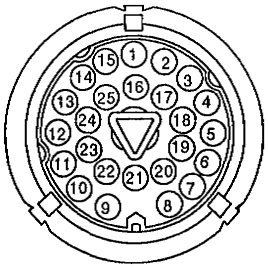


FIG. 3

B060019.02

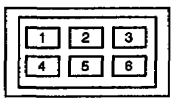
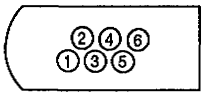


FIG. 4

B060037.00



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FIG. 1

B880001.00

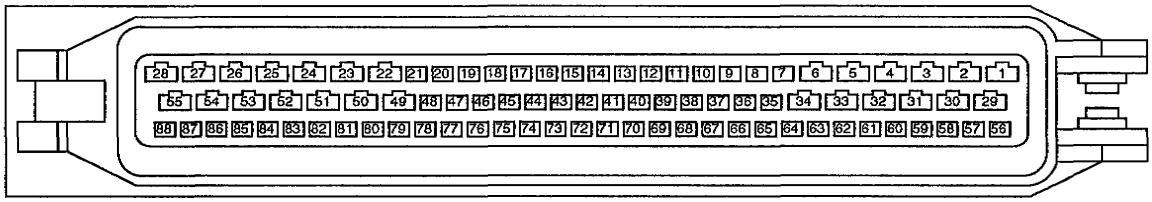


FIG. 2

B060038.00

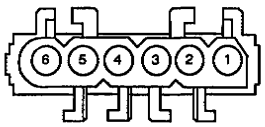


FIG. 3

B030006.00



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CONNECTOR VIEWS

FIG. 1

B060012.00

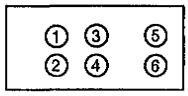


FIG. 2

B040023.00

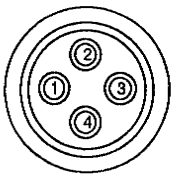


FIG. 3

B030018.00

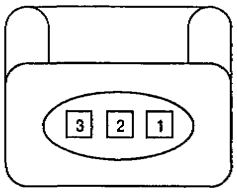


FIG. 4

B030015.08

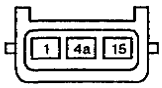


FIG. 5

B030023.00

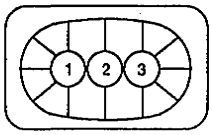
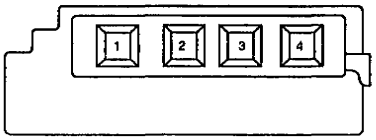


FIG. 6

B040020.00



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CONNECTOR VIEWS

FIG. 1

B030025.00

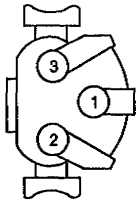


FIG. 2

B060037.01

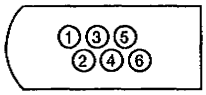


FIG. 3

B030001.00

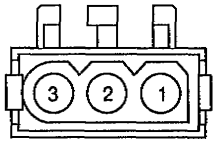


FIG. 4

B060001.00



FIG. 5

B120004.05

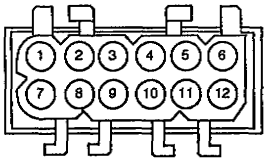
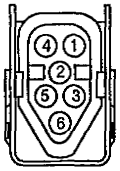


FIG. 6

B060009.00



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CONNECTOR VIEWS

FIG. 1

B100004.01

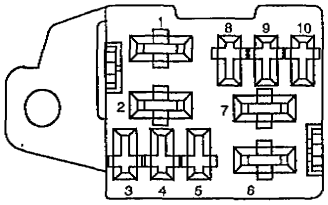


FIG. 2

B180002.00

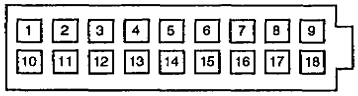


FIG. 3

B060042

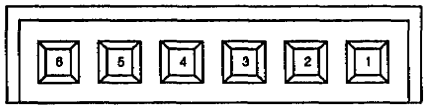
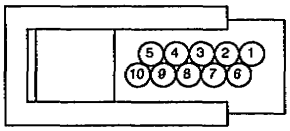


FIG. 4

B100007.00



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FIG. 1

B030042.01

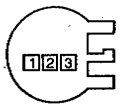
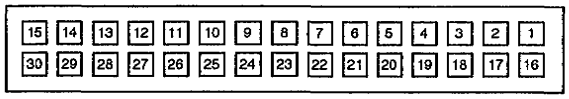


FIG. 2

B300004.00



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