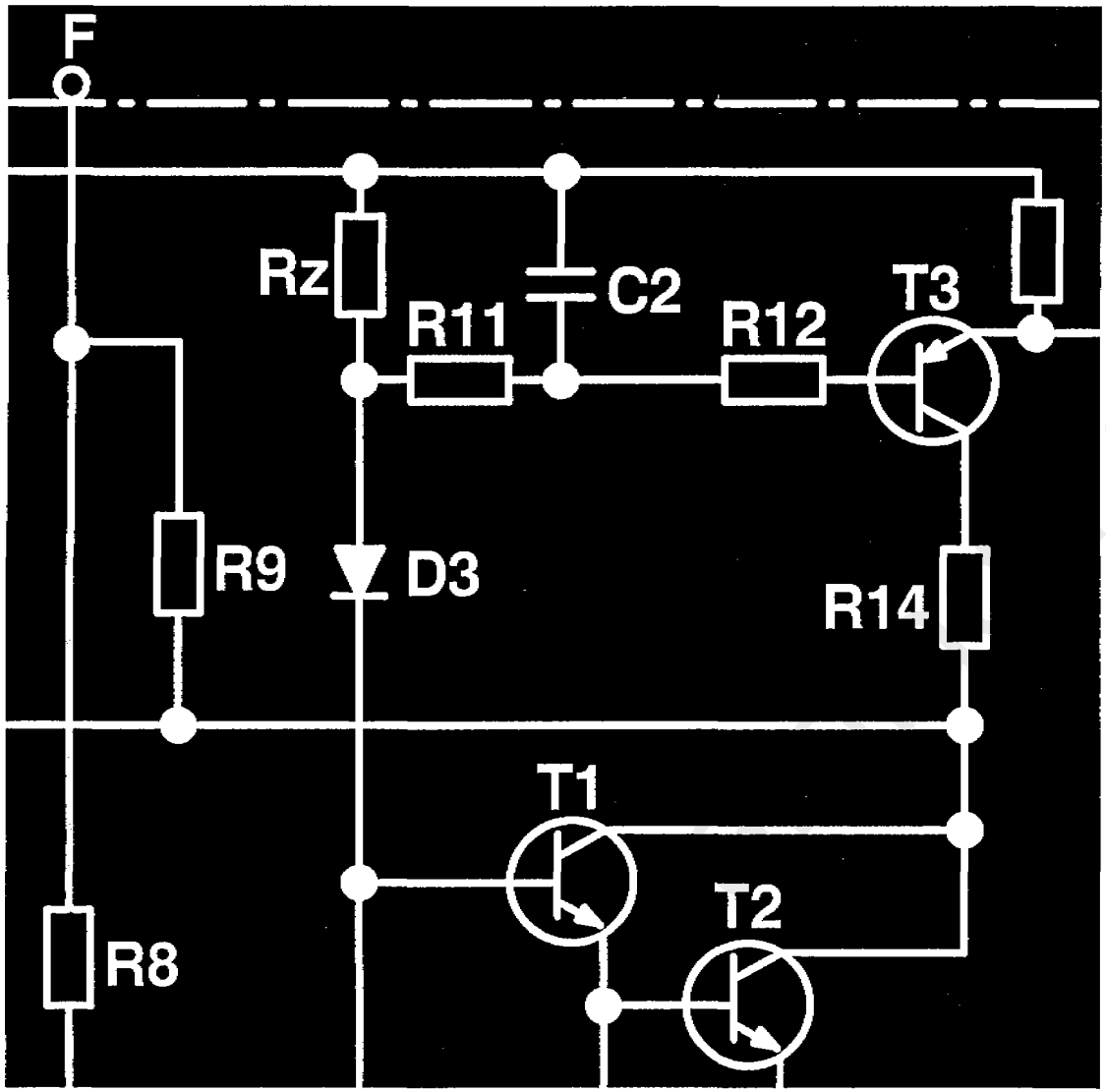


1994
BMW 840Ci, 850Ci, 850CSi (E31)
Electrical Troubleshooting Manual

Vehicles Produced 9/93 to 5/94

PN 01 00 1 469 219

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

8 SERIES – E31 (840Ci, 850Ci, 850CSi)

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
1210.6 ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)
1210.11 ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)
1230.0 CHARGING SYSTEM
1240.0 START
1270.1 ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)
1290.0 E-BOX FAN
2460.0 ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-24)
2460.7 ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/A5S 560Z)
3231.0 ELECTRIC STEERING COLUMN ADJUSTMENT
3231.1 STEERING COLUMN MEMORY (LSM)
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIRBAG)
3240.0 POWER ASSIST STEERING (SERVOTRONIC)
3334.0 ACTIVE REAR AXLE KINEMATICS (AHK)
3450.0 SLIP CONTROL (ABS)
3450.2 SLIP CONTROL (ABS/ASC+T)
3450.5 SLIP CONTROL 5 (ASC 5)
3715.2 ELECTRONIC SHOCK ABSORBER CONTROL (EDC III+)
5116.0 POWER MIRRORS
5120.0 ZKE DOOR LOCK HEATING (TSH)
5126.0 ZKE CENTRAL LOCKING (ZV)
5133.0 ZKE POWER WINDOWS (FH)
5146.0 POWER SUN SHADES
5200.0 POWER SEATS
5200.1 SEAT/MIRROR MEMORY SYSTEM (SM/SPM)
5203.0 HEATED SEATS
5212.0 LUMBAR SUPPORT
5410.0 ZKE SUNROOF (SHD)
6100.0 CENTRAL BODY ELECTRONICS (ZKE II)
6133.0 HORN
6160.0 ZKE WIPER/WASHER CONTROL
6164.0 ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)
6167.0 ZKE HEADLIGHT WASHER (SRA)
6169.0 WINDSHIELD WASHER JET HEATERS
6210.0 BODY ELECTRONICS MODULE (EKM)
6211.0 INSTRUMENT CLUSTER

© BMW NA, Woodcliff Lake, NJ
ZU-E, Printed in U.S.A.

PART NUMBER 01 00 1 469 219

SCHEMATICS

6300.0 LIGHT SWITCH DETAILS
6301.0 LAMP MONITOR (LKM)
6312.0 HEADLIGHTS/FOG LIGHTS
6313.0 TURN/HAZARD LIGHTS
6314.0 PARK/TAIL/UNDERHOOD LIGHTS
6320.0 LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS
6322.0 BACK UP LIGHTS
6325.0 BRAKE LIGHTS
6330.0 ZKE INTERIOR LIGHTS CONTROL (IB)
6332.0 INTERIOR ACCESSORIES
6350.0 CRASH CONTROL MODULE
6412.2 PARK VENTILATION WITH IHKA
6424.0 REAR WINDOW DEFOGGER
6450.0 AUTOMATIC HEATING/AC CONTROL (IHKA)
6454.0 AUXILIARY FAN
6510.1 RADIO/HIFI
6561.0 CELLULAR TELEPHONE (PROVISIONS)
6571.0 CRUISE CONTROL (TEMPOMAT)
6575.3 ANTI-THEFT SYSTEM IV (DWA IV)
6581.1 MULTI-INFORMATION DISPLAY (MID)
6610.1 REMOTE CONTROLLED LOCKING SYSTEM
7000.0 COMPONENT LOCATION CHART
7100.0 COMPONENT LOCATION VIEWS
8000.0 SPLICE LOCATION VIEWS
8500.0 CONNECTOR VIEWS

cardiagn.com

© BMW NA, Woodcliff Lake, NJ
ZU-E, Printed in U.S.A.

cardiagn.com

ABS HYDRAULIC UNIT, Y1 ..... 3450.0
ABS HYDRAULIC UNIT, Y1 ..... 3450.2
ABS HYDRAULIC UNIT, Y1w 3450.5
ABS PUMP MOTOR RELAY, K94 ..... 3450.5-08
ACCELERATION SENSOR, RIGHT REAR, B48 ..... 3715.2-01
ACCUMULATOR CHARGING UNIT, B52 ..... 3334.0-01
ACOUSTIC DEVICE, H10z 6210.0-08
ACTIVE REAR AXLE KINEMATICS (AHK) 3334.0
AHK ACTUATOR, B53 ..... 3334.0-02
AHK CONTROL MODULE, A57 ..... 3334.0
AHK RELAY, K82 ..... 3334.0-00
AIR BAG GAS GENERATOR, DRIVER'S, G5 ..... 3234.0-01
AIR BAG GAS GENERATOR I, PASSENGER'S, G6 ..... 3234.0-01
AIR CONDITIONING COMPRESSOR (IHKA), Y3 ..... 6450.0-13
AIR CONDITIONING PRESSURE SWITCH, S96 ..... 6450.0-12
AIR CONDITIONING RELAY, K33 ..... 6454.0-01
ANTENNA AMPLIFIER AM/FM, N8 ..... 6424.0-00
ANTI-THEFT CONTROL MODULE (DWA), N1 ..... 6575.3
ANTI-THEFT HORN (DWA), H1 ..... 6575.3-00
ANTI-THEFT SYSTEM IV (DWA IV) 6575.3
ASC SWITCH, S6 ..... 3450.2
ASC SWITCH, S6 ..... 3450.5-00
AUTOMATIC AIR RECIRCULATION CONTROL MODULE, A417 .. 6450.0-15
AUTOMATIC AIR RECIRCULATION SENSOR, B414 ..... 6450.0-15
AUTOMATIC HEATING/AC CONTROL (IHKA) 6450.0
AUTOMATIC HEATING/AC CONTROL MODULE (IHKA), A11 .... 6450.0-00
AUTOMATIC HEATING AND AIR CONDITIONING SWITCH (IHKA), S26 ..... 6450.0-01
AUTOMATIC TRANSMISSION RANGE SWITCH, S3 ..... 2460.7-04
AUTOMATIC TRANSMISSION RANGE SWITCH, S8515 ..... 2460.0-04
AUXILIARY FAN 6454.0
AUXILIARY FAN MOTOR, M9 ..... 6454.0-00
AUXILIARY RELAY BOX - ENGINE COMPARTMENT, P1 ..... 0670.2
AUXILIARY THROTTLE POSITION MOTOR (ADS), M93 ..... 3450.5-09
AUXILIARY THROTTLE POSITION SENSOR, R6253 ..... 3450.5-09
AUXILIARY TURN LIGHT, RIGHT FRONT, H8 ..... 6313.0-02
AUXILIARY WATER PUMP, M37a 6450.0-11
AUXILIARY WATER PUMP RELAY, K8z 6450.0-11
BACK UP LIGHT, LEFT, H27 ..... 6322.0-00
BACK UP LIGHT, RIGHT, H28 ..... 6322.0-00
BACK UP LIGHTS 6322.0
BATTERY I, RIGHT, G1z 0670.2-00
BATTERY II, LEFT, G4 ..... 0670.2-00
BLOWER MOTOR, M30 ..... 6450.0-01
BLOWER RELAY, K4 ..... 6450.0-00
BODY ELECTRONICS MODULE, A25 ..... 6210.0-00
BODY ELECTRONICS MODULE (EKM) 6210.0
BRAKE FLUID LEVEL SWITCH, B18 ..... 6210.0-06
BRAKE LIGHT, LEFT, H24 ..... 6325.0-00
BRAKE LIGHT, RIGHT, H31 ..... 6314.0-04
BRAKE LIGHT SWITCH, S30 ..... 6325.0-00
BRAKE LIGHTS 6325.0
BRAKE PAD SENSOR, RIGHT REAR, B17 ..... 6210.0-05
BRAKE PRESSURE REGULATING SWITCH, B19 ..... 6210.0-06
BRAKE PRESSURE SWITCH, B20 ..... 6210.0-06
CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION), B6204 ..... 1210.11-09
CASSETTE BOX LIGHT, E45y 6300.0-04
CD CHANGER, N22 ..... 6510.1-04
CELLULAR TELEPHONE (PROVISIONS) 6561.0
CENTRAL BODY ELECTRONICS (ZKE II) 6100.0
CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV), K70 ..... 5126.0-02
CHARGING SYSTEM 1230.0
CLUTCH SWITCH, S32 ..... 1270.1-09
COMBINATION SWITCH, S7 ..... 6301.0-00
COMPONENT LOCATION CHART 7000.0
COMPONENT LOCATION VIEWS 7100.0
COMPRESSOR CONTROL RELAY, K19 ..... 6450.0-12
COMPRESSOR CUT-OFF RELAY, K60 ..... 6450.0-12
CONCEALING HEADLIGHT MOTOR, LH, M18 ..... 6312.0-06
CONCEALING HEADLIGHT MOTOR, RH, M19 ..... 6312.0-06
CONCEALING HEADLIGHTS RELAY, K39 ..... 6312.0-06
CONNECTOR VIEWS 8500.0
CONSUMER CUT-OFF RELAY I, K72 ..... 6330.0-02

carmanuals.com

CONSUMER CUT-OFF RELAY II, K73 ..... 6330.0-02
CONTACT RING, C101 ..... 3234.0-01
CRANKSHAFT POSITION/RPM SENSOR, B6203 ..... 1210.11-09
CRASH CONTROL MODULE 6350.0
CRASH CONTROL MODULE, N17 ..... 6350.0-01
CRUISE CONTROL (TEMPOMAT) 6571.0
CRUISE CONTROL MODULE (TEMPOMAT), A8 ..... 6571.0
CRUISE CONTROL SWITCH (EML), S11 ..... 1270.1-02
CYL. 1 FUEL INJECTION VALVE, Y6101 ..... 1210.6-02
CYL. 1 FUEL INJECTION VALVE, Y6101 ..... 1210.11-01
CYL. 1 IGNITION COIL, T6151 ..... 1210.11-03
CYL. 1-2 KNOCK SENSOR, B6241 ..... 1210.11-08
CYL. 1-4 HEATED OXYGEN SENSOR, B6210w 1210.11-06
CYL. 1-6 AIR TEMPERATURE SENSOR, B6215 ..... 1210.6-08
CYL. 1-6 CRANKSHAFT POSITION/RPM SENSOR, B6212 ..... 1210.6-05
CYL. 1-6 CYLINDER IDENTIFICATION SENSOR, B6211 ..... 1210.6-05
CYL. 1-6 ENGINE CONTROL MODULE (DME), A6010 ..... 1210.6
CYL. 1-6 ENGINE CONTROL MODULE RELAY, K6310 ..... 1210.6-01
CYL. 1-6 EVAPORATIVE EMISSION VALVE, Y6121 ..... 1210.6-03
CYL. 1-6 FUEL PUMP, M2z 1210.6-04
CYL. 1-6 FUEL PUMP RELAY, K6311 ..... 1210.6-04
CYL. 1-6 HEATED OXYGEN SENSOR, B6210 ..... 1210.6-05
CYL. 1-6 IGNITION COIL, T6151z 1210.6-00
CYL. 1-6 MASS AIR FLOW SENSOR, B6216 ..... 1210.6-03
CYL. 2 FUEL INJECTION VALVE, Y6102 ..... 1210.11-01
CYL. 2 FUEL INJECTION VALVE, Y6102 ..... 1210.6-02
CYL. 2 IGNITION COIL, T6152 ..... 1210.11-03
CYL. 3 FUEL INJECTION VALVE, Y6103 ..... 1210.6-02
CYL. 3 FUEL INJECTION VALVE, Y6103 ..... 1210.11-01
CYL. 3 IGNITION COIL, T6153 ..... 1210.11-03
CYL. 3-4 KNOCK SENSOR, B6242 ..... 1210.11-08
CYL. 4 FUEL INJECTION VALVE, Y6104 ..... 1210.11-01
CYL. 4 FUEL INJECTION VALVE, Y6104 ..... 1210.6-02
CYL. 4 IGNITION COIL, T6154 ..... 1210.11-03
CYL. 5 FUEL INJECTION VALVE, Y6105 ..... 1210.6-02
CYL. 5 FUEL INJECTION VALVE, Y6105 ..... 1210.11-02
CYL. 5 IGNITION COIL, T6155 ..... 1210.11-04
CYL. 5-6 KNOCK SENSOR, B6243 ..... 1210.11-08
CYL. 5-8 HEATED OXYGEN SENSOR, B6220w 1210.11-06
CYL. 6 FUEL INJECTION VALVE, Y6106 ..... 1210.11-02
CYL. 6 FUEL INJECTION VALVE, Y6106 ..... 1210.6-02
CYL. 6 IGNITION COIL, T6156 ..... 1210.11-04
CYL. 7 FUEL INJECTION VALVE, Y6107 ..... 1210.6-12
CYL. 7 FUEL INJECTION VALVE, Y6107 ..... 1210.11-02
CYL. 7 IGNITION COIL, T6157 ..... 1210.11-04
CYL. 7-8 KNOCK SENSOR, B6244 ..... 1210.11-08
CYL. 7-12 AIR TEMPERATURE SENSOR, B6225 ..... 1210.6-16
CYL. 7-12 CRANKSHAFT POSITION/RPM SENSOR, B6222 ..... 1210.6-15
CYL. 7-12 CYLINDER IDENTIFICATION SENSOR, B6221 ..... 1210.6-15
CYL. 7-12 ENGINE CONTROL MODULE (DME), A6020 ..... 1210.6
CYL. 7-12 ENGINE CONTROL MODULE RELAY, K6320 ..... 1210.6-11
CYL. 7-12 EVAPORATIVE EMISSION VALVE, Y6122 ..... 1210.6-13
CYL. 7-12 FUEL PUMP, M11 ..... 1210.6-14
CYL. 7-12 FUEL PUMP RELAY, K6321 ..... 1210.6-14
CYL. 7-12 HEATED OXYGEN SENSOR, B6220 ..... 1210.6-15
CYL. 7-12 IGNITION COIL, T6152z 1210.6-10
CYL. 7-12 MASS AIR FLOW SENSOR, B6226 ..... 1210.6-13
CYL. 8 FUEL INJECTION VALVE, Y6108 ..... 1210.11-02
CYL. 8 FUEL INJECTION VALVE, Y6108 ..... 1210.6-12
CYL. 8 IGNITION COIL, T6158 ..... 1210.11-04
CYL. 9 FUEL INJECTION VALVE, Y6109 ..... 1210.6-12
CYL. 10 FUEL INJECTION VALVE, Y6110 ..... 1210.6-12
CYL. 11 FUEL INJECTION VALVE, Y6111 ..... 1210.6-12
CYL. 12 FUEL INJECTION VALVE, Y6112 ..... 1210.6-12
DASH LIGHT, E41 ..... 6450.0-05
DASH VENT MIXING FLAP MOTOR, M34 ..... 6450.0-08
DATA LINK 0670.5
DATA LINK CONNECTOR, D100 ..... 0670.5-02
DAYTIME RUNNING LIGHTS CODING DIODE, V4 ..... 6314.0-02
DAYTIME RUNNING LIGHTS RELAY, K111 ..... 6314.0-02
DEFROSTER FLAP MOTOR, M35 ..... 6450.0-10
DIMMER, N3 ..... 6300.0-02
DIVERSITY, N404 ..... 6424.0-02
DOOR HANDLE SWITCH, DRIVER'S, S48 ..... 5120.0-00

carmanuals.com

DOOR HANDLE SWITCH, PASSENGER'S, S79 ..... 6100.0-03
DOOR JAMB SWITCH, DRIVER'S, S14 ..... 6575.3-01
DOOR JAMB SWITCH, PASSENGER'S, S13 ..... 6575.3-01
DOOR LOCK HEATER, E48 ..... 5120.0-00
DOOR LOCK MOTOR, DRIVER'S, M12 ..... 5126.0-03
DOOR LOCK MOTOR, PASSENGER'S, M13 ..... 5126.0-03
DOOR LOCK SWITCH, DRIVER'S, S47 ..... 5126.0-00
DOOR LOCK SWITCH, PASSENGER'S, S49 ..... 5126.0-00
DOOR MODULE, DRIVER'S, A23 ..... 6100.0-00
DOOR MODULE, PASSENGER'S, A24 ..... 6100.0-00
DOOR PANEL LIGHT, DRIVER'S, E78 ..... 6300.0-04
DOOR PANEL LIGHT, PASSENGER'S, E79 ..... 6300.0-04
DRIVER'S SEATBACK SWITCH, LH, S104 ..... 6210.0-04
DRIVER'S SEATBACK SWITCH, RH, S103 ..... 6210.0-04
DWA LED, V5 ..... 6575.3-00
E-BOX, P93 ..... 0670.2
E-BOX FAN 1290.0
E-BOX FAN, M6506 ..... 1290.0-00
EDC RELAY, K67 ..... 3715.2-00
EDC SWITCH, S105 ..... 3715.2-00
EDC VALVES, LEFT REAR, Y403z 3715.2-02
EDC VALVES, RIGHT FRONT, Y402z 3715.2-02
EDC VALVES, RIGHT REAR, Y404z 3715.2-02
ELECTRIC POWER PROTECTION RELAY, K15 ..... 5126.0-02
ELECTRIC POWER PROTECTION RELAY II, K30 ..... 5126.0-02
ELECTRIC STEERING COLUMN ADJUSTMENT 3231.0
ELECTRO-HYDRAULIC CONVERTER (SERVOTRONIC), B15 ... 3240.0-00
ELECTROCHROMIC REAR VIEW MIRROR, A22z 5116.0-02
ELECTRONIC SHOCK ABSORBER CONTROL (EDC III+) 3715.2
ELECTRONIC SHOCK ABSORBER CONTROL MODULE (EDC), A413 ..... 3715.2
ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER) 1270.1
ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22) 2460.0
ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/A5S 560Z) 2460.7
EML ACTUATOR MOTOR I, M6360 ..... 1270.1-05
EML ACTUATOR MOTOR II, M6370 ..... 1270.1-06
EML SWITCH, S202 ..... 1270.1-04
ENGINE CONTROL MODULE (DME), A6000 ..... 1210.11
ENGINE CONTROL MODULE RELAY, K6300 ..... 1210.11-00
ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70) 1210.6
ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60) 1210.11
ENGINE COOLANT TEMP. SENSOR (EML), B6234 ..... 1270.1-03
ENGINE COOLANT TEMPERATURE SENSOR, B6232 ..... 6210.0-07
ENGINE COOLANT TEMPERATURE SENSOR, B6236 ..... 1210.6-08
ENGINE COOLANT TEMPERATURE SENSOR, B6236 ..... 1210.11-07
ENGINE HOOD SWITCH (DWA), S21 ..... 6575.3-02
EVAPORATIVE EMISSION VALVE, Y6120 ..... 1210.11-01
EVAPORATOR TEMPERATURE SENSOR, B14 ..... 6450.0-03
FINAL STAGE UNIT, N2 ..... 6450.0-01
FLASHER LIGHT RELAY, K52z 6312.0-05
FM AMPLIFIER HLO, N444 ..... 6424.0-02
FM AMPLIFIER/SUPPRESSION FILTER, C900z 6424.0-02
FOG LIGHT, LEFT, E26 ..... 6312.0-03
FOG LIGHT, RIGHT, E27 ..... 6312.0-03
FOG LIGHT SWITCH, S10 ..... 6312.0-02
FOOTWELL LIGHT, RIGHT FRONT, E62 ..... 6330.0-03
FOOTWELL FLAP MOTOR, LEFT, M31 ..... 6450.0-09
FOOTWELL FLAP MOTOR, RIGHT, M32 ..... 6450.0-08
FRESH AIR FLAP MOTOR, M36 ..... 6450.0-10
FRONT ACCELERATION SENSOR, B41z 3715.2-01
FRONT AUXILIARY TURN LIGHT, LEFT, H9 ..... 6313.0-02
FRONT BRAKE PAD SENSOR, LEFT, B16 ..... 6210.0-05
FRONT CIGAR LIGHTER, E28 ..... 6332.0-03
FRONT CIGAR LIGHTER LIGHT, E29 ..... 6332.0-02
FRONT DOME LIGHT/MAP READING ASSEMBLY, E34 ..... 6330.0-03
FRONT EDC VALVES, LEFT, Y401z 3715.2-02
FRONT FOOTWELL LIGHT, LEFT, E61 ..... 6330.0-03
FRONT HIGH RANGE SPEAKER, LEFT, H59 ..... 6510.1-01
FRONT LOW RANGE SPEAKER, LEFT, H58 ..... 6510.1-01
FRONT MARKER LIGHT, LEFT, E21 ..... 6314.0-04
FRONT MIDRANGE SPEAKER, LEFT, H55 ..... 6510.1-01
FRONT POWER DISTRIBUTION BOX, P90 ..... 0670.2
FRONT SPEED SENSOR - ABS, LEFT, B2 ..... 3450.0-03

INDEX

FRONT SPEED SENSOR - ABS, LEFT, B2 ..... 3450.2
FRONT SPEED SENSOR - ABS, LEFT, B2 ..... 3450.5
FRONT TURN LIGHT, LEFT, H7 ..... 6313.0-02
FUEL LEVEL SENSOR I, B6z 6210.0-08
FUEL LEVEL SENSOR II, B25 ..... 6210.0-08
FUEL PUMP, M2 ..... 1210.11-05
FUEL PUMP RELAY, K6301w 1210.11-05
FUSE CHART 0670.1
FUSE DETAILS 0670.3
FUSIBLE LINK, F0 ..... 0670.2-00
GAS FILLER LOCK MOTOR, M16 ..... 5126.0-03
GEAR SHIFT LEVER INDICATOR, E96 ..... 6300.0-05
GENERAL MODULE, A1 ..... 6100.0-00
GENERATOR, G6509 ..... 1230.0-00
GLOVE BOX CENTRAL LOCKING SWITCH, S118 ..... 5126.0-01
GLOVE BOX LIGHT, E42 ..... 6332.0-00
GLOVE BOX LIGHT SWITCH I, S37z 6332.0-01
GLOVE BOX LIGHT SWITCH II, S113 ..... 6332.0-01
GRADIENT MONITOR (DWA), B28 ..... 6575.3-04
GROUND DISTRIBUTION 0670.4
HAZARD FLASHER RELAY, K16 ..... 6313.0-00
HAZARD SWITCH, S18 ..... 6313.0-01
HEADLIGHT/FOG LIGHT WASHER PUMP, M7 ..... 6167.0-02
HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA), N6 ..... 6167.0-02
HEADLIGHT WIDENING MOTOR, LEFT, M80 ..... 6312.0-07
HEADLIGHT WIDENING MOTOR, RIGHT, M81 ..... 6312.0-07
HEADLIGHT WIDENING POTENTIOMETER, R13 ..... 6312.0-07
HEADLIGHTS/FOG LIGHTS 6312.0
HEATED SEATS 5203.0
HEAT EXCHANGER TEMPERATURE SENSOR, LH, B11 ..... 6450.0-03
HEAT EXCHANGER TEMPERATURE SENSOR, RH, B12 ..... 6450.0-03
HIFI AMPLIFIER, A18 ..... 6510.1-00
HIGH BEAM FLASHER LIGHT, LEFT, E69 ..... 6312.0-05
HIGH BEAM FLASHER LIGHT, RIGHT, E70z 6312.0-05
HIGH BEAM LIGHT, RIGHT, E12 ..... 6312.0-05
HIGH BEAM LIGHT, LEFT, E11 ..... 6312.0-05
HIGH BEAM LIGHT RELAY, K46 ..... 6312.0-05
HIGH LEVEL STOP LIGHT, H34 ..... 6325.0-00
HIGH RANGE SPEAKER, LEFT REAR, H56 ..... 6510.1-03
HIGH RANGE SPEAKER, RIGHT FRONT, H50 ..... 6510.1-02
HIGH RANGE SPEAKER, RIGHT REAR, H53 ..... 6510.1-03
HIGH SPEED RELAY, K22 ..... 6454.0-00
HORN 6133.0
HORN, LEFT, H2 ..... 6133.0-00
HORN, RIGHT, H3 ..... 6133.0-00
HORN RELAY, K2 ..... 6133.0-00
HORN SWITCH, S4 ..... 6133.0-00
HOT FILM AIR MASS METER, B6217 ..... 1210.11-07
IDLE SPEED CONTROL VALVE, Y6130 ..... 1210.11-00
IGNITION SWITCH, S2 ..... 0670.2
INDEX 0100.0
INERTIA SWITCH, S27 ..... 6350.0-01
INSIDE DOOR HANDLE SWITCH, DRIVER'S, S89 ..... 5120.0-01
INSIDE DOOR HANDLE SWITCH, PASSENGER'S, S90 ..... 6100.0-03
INSTRUMENT CLUSTER 6211.0
INSTRUMENT CLUSTER, A2w 6211.0
INTAKE AIR TEMPERATURE SENSOR, B6215A 1210.11-07
INTENSIVE WASH PUMP, M5 ..... 6160.0-02
INTENSIVE WASH RELAY, K42 ..... 6160.0-02
INTERIOR ACCESSORIES 6332.0
INTERIOR LIGHT, LEFT REAR, E39 ..... 6330.0-03
INTERIOR LIGHT, RIGHT REAR, E40 ..... 6330.0-03
INTERIOR LIGHT RELAY, K29 ..... 6330.0-03
INTRODUCTION 0110.0
JET HEATER THERMOSWITCH, S198 ..... 6169.0-00
JUMPER PLUG, B900 ..... 1240.0-01
JUMPER PLUG FOR HORN/TELEPHONE, K51 ..... 6561.0-01
KICK-DOWN SWITCH, S8507 ..... 2460.7-03
LAMP CONTROL MODULE, A3 ..... 6301.0
LAMP MONITOR (LKM) 6301.0
LICENSE PLATE LIGHT, LEFT, E43 ..... 6320.0-01
LICENSE PLATE LIGHT, RIGHT, E44 ..... 6320.0-01
LICENSE PLATE/LUGGAGE COMPARTMENT LIGHTS 6320.0
LIGHT ASSEMBLY I, LEFT REAR, E46z 0670.4-12

carmanuals.com

INDEX

LIGHT ASSEMBLY I, RIGHT REAR, E47z 0670.4-12
LIGHT ASSEMBLY II, LEFT REAR, E80 ..... 6301.0-03
LIGHT ASSEMBLY II, RIGHT REAR, E81 ..... 6301.0-03
LIGHT BAND, LEFT, E9046 ..... 0670.4-01
LIGHT BAND, RIGHT, E9047 ..... 0670.4-02
LIGHT SWITCH, S8 ..... 6300.0
LIGHT SWITCH, S8z 6300.0
LIGHT SWITCH DETAILS 6300.0
LOCK-SENSOR CONTROL MODULE, A26 ..... 6450.0-13
LONGITUDINAL ACCELERATION SENSOR, B49 ..... 3715.2-01
LOW BEAM LIGHT, LEFT, E13 ..... 6312.0-00
LOW BEAM LIGHT, RIGHT, E14 ..... 6312.0-00
LOW RANGE SPEAKER, LEFT REAR, H57 ..... 6510.1-03
LOW RANGE SPEAKER, RIGHT FRONT, H51 ..... 6510.1-02
LOW RANGE SPEAKER, RIGHT REAR, H52 ..... 6510.1-03
LUMBAR SUPPORT 5212.0
MAKEUP MIRROR LIGHT, DRIVER'S, E35 ..... 6332.0-01
MAKEUP MIRROR LIGHT, PASSENGER'S, E36 ..... 6332.0-01
MAKEUP MIRROR SWITCH, DRIVER'S, S77 ..... 6332.0-01
MAKEUP MIRROR SWITCH, PASSENGER'S, S78 ..... 6332.0-01
MARKER LIGHT, RIGHT FRONT, E22 ..... 6314.0-04
MEMORY MIRRORS CONTROL SWITCH, S12 ..... 5200.1-06
MEMORY SEAT ADJUSTMENT SWITCH, DRIVER'S, S50 ..... 5200.1-00
MEMORY SEAT MIRRORS SWITCH, S57 ..... 5200.1-01
MIDRANGE SPEAKER, RIGHT FRONT, H54 ..... 6510.1-02
MID-HIGH RANGE SPEAKER, LEFT, H42 ..... 6510.1-01
MID-HIGH RANGE SPEAKER, RIGHT, H43 ..... 6510.1-02
MIRROR CONTROL SWITCH, S17 ..... 5116.0-00
MIXING FLAP MOTOR, LEFT, M39 ..... 6450.0-09
MIXING SWITCH, R1 ..... 6450.0-04
MULTI-INFORMATION DISPLAY (MID) 6581.1
MULTI-INFORMATION DISPLAY (MID), N4z 6581.1-00
NORMAL SPEED RELAY, K21 ..... 6454.0-00
OIL LEVEL SENSOR, B6230 ..... 6210.0-07
OIL PRESSURE SWITCH, B206 ..... 6210.0-06
ON-BOARD COMPUTER HORN RELAY, K91 ..... 6575.3-00
OUTSIDE TEMPERATURE SENSOR, B13 ..... 6450.0-03
OXYGEN SENSOR RELAY, K6303 ..... 1210.11-06
PARK BRAKE SWITCH, S31 ..... 6210.0-04
PARK HEATING/VENTILATION RELAY BOX, A15 ..... 6412.2-02
PARK LIGHT, LEFT, E15 ..... 6314.0-03
PARK LIGHT, RIGHT, E19 ..... 6314.0-03
PARK LIGHT RELAY, LEFT, K26 ..... 6314.0-02
PARK LIGHT/LICENSE PLATE LIGHT RELAY, RIGHT, K25 ..... 6314.0-02
PARK/TAIL/UNDERHOOD LIGHTS 6314.0
PARK VENTILATION WITH IHKA 6412.2
PASSENGER'S SEATBACK SWITCH, LH, S122 ..... 6210.0-04
PEDAL POSITION SENSOR, R10 ..... 1270.1-03
POWER ASSIST STEERING (SERVOTRONIC) 3240.0
POWER DISTRIBUTION 0670.2
POWER DISTRIBUTION CHART 0670.0
POWER MIRRORS 5116.0
POWER SEATS 5200.0
POWER SUN SHADES 5146.0
POWER WINDOW MOTOR/INCREMENT SENSOR, DRIVER'S, M21z 5133.0-03
POWER WINDOW MOTOR/INCREMENT SENSOR, PASSENGER'S, M23z 5133.0-01
PRESSURE SENSOR/PLUNGER, Y16 ..... 3450.2
PRESSURE SENSOR/PLUNGER, Y16 ..... 3450.5-06
PRESSURE SWITCH, B9508 ..... 6450.0-12
PROGRAM SELECTOR, S173 ..... 2460.7-02
PROGRAM SWITCH, S8517 ..... 2460.0-02
RADIO, N9 ..... 6510.1-00
RADIO ANTI-THEFT SWITCH (DWA), S20 ..... 6575.3-02
RADIO/HIFI 6510.1
REAR DEFOGGER/ANTENNA, E10 ..... 6424.0-01
REAR DEFOGGER I, E9 ..... 6424.0-01
REAR DEFOGGER RELAY, K13 ..... 6424.0-00
REAR LEFT MID-HIGH RANGE SPEAKER, H55z 6510.1-03
REAR POWER DISTRIBUTION BOX, P94 ..... 0670.2-07
REAR RIGHT MID-HIGH RANGE SPEAKER, H54z 6510.1-03
REAR WINDOW DEFOGGER 6424.0
REAR WINDOW DEFOGGER SWITCH, S76 ..... 6450.0-07

carmanuals

RECIRCULATION FLAP MOTOR, M40 ..... 6450.0-10
RELAY MODULE, A5 ..... 6100.0
REMOTE CONTROLLED LOCKING SYSTEM 6610.1
REMOTE LOCKING RECEIVER, N13y 6610.1-00
REVERSING LIGHT SWITCH, S8511 ..... 6322.0-00
SEATBACK HEATER, DRIVER'S, E56 ..... 5203.0-00
SEATBACK HEATER, PASSENGER'S, E59 ..... 5203.0-00
SEATBACK POTENTIOMETER, R7 ..... 5200.1-03
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 ..... 5200.0-01
SEATBACK SWITCH, RH, PASSENGER'S, S121 ..... 6210.0-04
SEAT BELT SWITCH, DRIVER'S, S58 ..... 3234.0-00
SEAT CUSHION MOVEMENT POTENTIOMETER, R9 ..... 5200.1-02
SEAT CUSHION REAR HEIGHT POTENTIOMETER, R8 ..... 5200.1-02
SEAT CUSHION TILT MOTOR, DRIVER'S, M50 ..... 5200.0-00
SEAT CUSHION TILT MOTOR, PASSENGER'S, M61 ..... 5200.0-01
SEAT HEATER, DRIVER'S, E57 ..... 5203.0-00
SEAT HEATER, PASSENGER'S, E58 ..... 5203.0-00
SEAT HEIGHT MOTOR, DRIVER'S, M52 ..... 5200.0-00
SEAT HEIGHT MOTOR, PASSENGER'S, M59 ..... 5200.0-01
SEAT HEIGHT POTENTIOMETER, R6 ..... 5200.1-03
SEAT LUMBAR SUPPORT MOTOR/VALVE, DRIVER'S, M55z 5212.0-00
SEAT LUMBAR SUPPORT MOTOR/VALVE, PASSENGER'S, M56z 5212.0-00
SEAT LUMBAR SUPPORT SWITCH, PASSENGER'S, S55 ..... 5212.0-00
SEAT LUMBAR SWITCH, DRIVER'S, S52 ..... 5212.0-00
SEAT/MIRROR MEMORY CONTROL MODULE, A21 ..... 5200.1-00
SEAT/MIRROR MEMORY SYSTEM (SM/SPM) 5200.1
SEAT MOVEMENT MOTOR, DRIVER'S, M51 ..... 5200.0-00
SEAT MOVEMENT MOTOR, PASSENGER'S, M60 ..... 5200.0-01
SEAT OCCUPANCY DETECTOR, A113 ..... 3234.0-00
SEAT, SEAT CONTROL SWITCH, DRIVER'S, S51 ..... 5200.0-00
SEAT, SEAT CONTROL SWITCH, PASSENGER'S, S56 ..... 5200.0-01
SEAT, SEAT HEATER SWITCH, DRIVER'S, S53 ..... 5203.0-00
SEAT, SEAT HEATER SWITCH, PASSENGER'S, S54 ..... 5203.0-00
SERVOTRONIC RELAY, K199 ..... 3240.0-00
SHIFT-LOCK, Y19 ..... 2460.7-03
SHIFT LOCK, S8522 ..... 2460.0-00
SIDE MARKER LIGHT, LEFT REAR, E9021 ..... 6314.0-01
SIDE MARKER LIGHT, RIGHT REAR, E9022 ..... 6314.0-01
SIDE MEMORY MIRROR, DRIVER'S, Y9 ..... 5200.1-07
SIDE MEMORY MIRROR, PASSENGER'S, Y10 ..... 5200.1-08
SIDE MIRROR, DRIVER'S, Y5 ..... 5116.0-01
SIDE MIRROR, PASSENGER'S, Y6 ..... 5116.0-01
SLIP CONTROL (ABS/ASC+T) 3450.2
SLIP CONTROL (ABS) 3450.0
SLIP CONTROL 5 (ASC 5) 3450.5
SLIP CONTROL MODULE (ABS/ASC+T), A9070 ..... 3450.2
SLIP CONTROL MODULE (ABS/ASC+T), A9070 ..... 3450.5
SLIP CONTROL MODULE (ABS), A7 ..... 3450.0
SPEAKER, LEFT REAR, H46 ..... 6510.0-03
SPEAKER, RIGHT REAR, H45 ..... 6510.0-03
SPEED SENSOR - ABS, LEFT REAR, B4 ..... 3450.0-03
SPEED SENSOR - ABS, LEFT REAR, B4 ..... 3450.2
SPEED SENSOR - ABS, LEFT REAR, B4 ..... 3450.5
SPEED SENSOR - ABS, RIGHT FRONT, B1 ..... 3450.0-03
SPEED SENSOR - ABS, RIGHT FRONT, B1 ..... 3450.2
SPEED SENSOR - ABS, RIGHT FRONT, B1 ..... 3450.5
SPEED SENSOR - ABS, RIGHT REAR, B3 ..... 3450.0-03
SPEED SENSOR - ABS, RIGHT REAR, B3 ..... 3450.2
SPEED SENSOR - ABS, RIGHT REAR, B3 ..... 3450.5
SPLICE LOCATION VIEWS 8000.0
START 1240.0
STARTER, M6510 ..... 1240.0-01
STARTER IMMOBILIZATION RELAY, K1w 1240.0-01
STARTER RELAY, K1 ..... 1240.0
STEERING ANGLE SENDER, B40 ..... 3715.2-01
STEERING COLUMN ADJUSTMENT CONTROL MODULE, A34w 3231.0-00
STEERING COLUMN ANGLE ADJUST MOTOR, M83 ..... 3231.0-00
STEERING COLUMN ANGLE ADJUST POTENTIOMETER, R19z . 3231.1-00
STEERING COLUMN LENGTH ADJUST MOTOR, M82 ..... 3231.0-00
STEERING COLUMN LENGTH ADJUST POTENTIOMETER, R18z 3231.1-00
STEERING COLUMN MEMORY (LSM) 3231.1
STEERING COLUMN MEMORY CONTROL MODULE, A34z 3231.1-00
STEERING COLUMN POSITION SWITCH, S119z 3231.0-00

carfactory.com

INDEX

STEERING WHEEL ANGLE SENSOR, R24 ..... 3334.0-01
SUN BLIND CONTROL MODULE, A82 ..... 5146.0-00
SUN BLIND MOTOR, M74 ..... 5146.0-00
SUN BLIND SWITCH, S110 ..... 5146.0-00
SUNROOF MODULE, A33 ..... 5410.0-01
SUNROOF MOTOR, M24 ..... 5410.0-01
SUNROOF SWITCH, S38 ..... 5410.0-01
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE, A12 3234.0-00
SUPPRESSION FILTER, C900 ..... 6424.0-01
SYMBOLS 0140.0
TAIL LIGHT, LEFT, H25 ..... 6314.0-04
TAIL LIGHT, RIGHT, H30 ..... 6314.0-04
TELEPHONE TRANSCEIVER, H38 ..... 6510.1-00
TEMPERATURE SENSOR, B21z 6210.0-07
TEMPERATURE SWITCH, B6235 ..... 1290.0-00
TEMPERATURE SWITCH, S36 ..... 6454.0-00
THIGH SUPPORT MOTOR, DRIVER'S, M65 ..... 5200.0-02
THIGH SUPPORT MOTOR, PASSENGER'S, M66 ..... 5200.0-02
THIGH SUPPORT SWITCH, DRIVER'S, S93 ..... 5200.0-02
THIGH SUPPORT SWITCH, PASSENGER'S, S94 ..... 5200.0-02
THIGH SUPPORT POTENTIOMETER, R15 ..... 5200.1-04
THROTTLE CONTROL MODULE (EML), A6004 ..... 1270.1
THROTTLE POSITION SENSOR, R6252 ..... 1210.11-07
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.0
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.7
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 2460.7-02
TRANSMISSION RANGE SELECTOR LEVER LIGHT, S8518 ..... 2460.0-02
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.0-01
TRANSMISSION VALVE UNIT, Y8505w 2460.7-01
TRUNK LID LIGHT, E33 ..... 6320.0-03
TRUNK LID LIGHT, LEFT, E9033 ..... 6320.0-03
TRUNK LID LIGHT, RIGHT, E9133 ..... 6320.0-03
TRUNK LID LOCKING SWITCH, S117 ..... 5126.0-01
TRUNK LID SWITCH, S61 ..... 6320.0-03
TRUNK LOCK MOTOR, M17 ..... 5126.0-02
TURN/HAZARD LIGHTS 6312.0
TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
UNDERHOOD LIGHT, E20 ..... 6314.0-04
UNDERHOOD LIGHT SWITCH, S19 ..... 6314.0-04
UNLOADER RELAY, TERMINAL 15, K9 ..... 0670.2-04
UNLOADER RELAY, TERMINAL 61, K61 ..... 1230.0-00
UNLOADER RELAY, TERMINAL R, K3 ..... 0670.2-04
UPPER LEFT TAIL LIGHT, H9025 ..... 6314.0-01
UPPER RIGHT TAIL LIGHT, H9030 ..... 6314.0-01
VALVE RELAY (ABS/ASC), K95 ..... 3450.5-08
VEHICLE SPEED SENSOR, B10 ..... 6210.0-08
VENTILATION FLAP MOTOR, LEFT, M38 ..... 6450.0-09
VENTILATION FLAP MOTOR, RIGHT, M33 ..... 6450.0-08
WARNING LIGHT RELAY, K81 ..... 3334.0-00
WASHER FLUID LEVEL SWITCH, S64 ..... 6210.0-06
WASHER FLUID LEVEL SWITCH, S136 ..... 6210.0-06
WASHER JET HEATER, LEFT, E51 ..... 6169.0-00
WASHER JET HEATER, RIGHT, E52 ..... 6169.0-00
WASHER PUMP, M4 ..... 6160.0-02
WASHER PUMP RELAY, K5 ..... 6160.0-02
WATER PUMP IN LUGGAGE COMPARTMENT, M86 ..... 6167.0-02
WATER VALVE ASSEMBLY, Y4 ..... 6450.0-02
WINDOW LIMIT SWITCH, LEFT REAR, S45 ..... 5133.0-04
WINDOW LIMIT SWITCH, RIGHT REAR, S46 ..... 5133.0-04
WINDOW MONITORING SWITCH (DWA), DRIVER'S, S100 ..... 6575.3-05
WINDOW MONITORING SWITCH (DWA), PASSENGER'S, S99 .. 6575.3-05
WINDOW MONITORING SWITCH (DWA), LEFT REAR, S102 .... 6575.3-05
WINDOW MONITORING SWITCH (DWA), RIGHT REAR, S101 ... 6575.3-05
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.0-04
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.0-04
WINDOW SWITCH, S40z 5133.0-00
WINDOW SWITCH, PASSENGER'S, S97 ..... 5133.0-02
WINDSHIELD WASHER JET HEATERS 6169.0
WIPER MOTOR, M3 ..... 6160.0-01
WIPER PRESSURE CONTROL (ADV) RELAY, K12 ..... 6164.0-01
WIPER PRESSURE CONTROL MOTOR (ADV), M6 ..... 6164.0-01

carmanuals.com

INDEX

WIPER RELAY II, K37 ..... 6160.0-01
WIPER RELAY I, K36 ..... 6160.0-01
WIPER RELAY III, K38 ..... 6160.0-01
WIPER/WASHER SWITCH, S5 ..... 6160.0-00
ZKE CENTRAL LOCKING (ZV) 5126.0
ZKE DOOR LOCK HEATING (TSH) 5120.0
ZKE HEADLIGHT WASHER (SRA) 6167.0
ZKE INTERIOR LIGHTS CONTROL (IB) 6330.0
ZKE POWER WINDOWS (FH) 5133.0
ZKE SUNROOF (SHD) 5410.0
ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV) 6164.0
ZKE WIPER/WASHER CONTROL 6160.0

cardiagn.com

Schematics

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

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

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

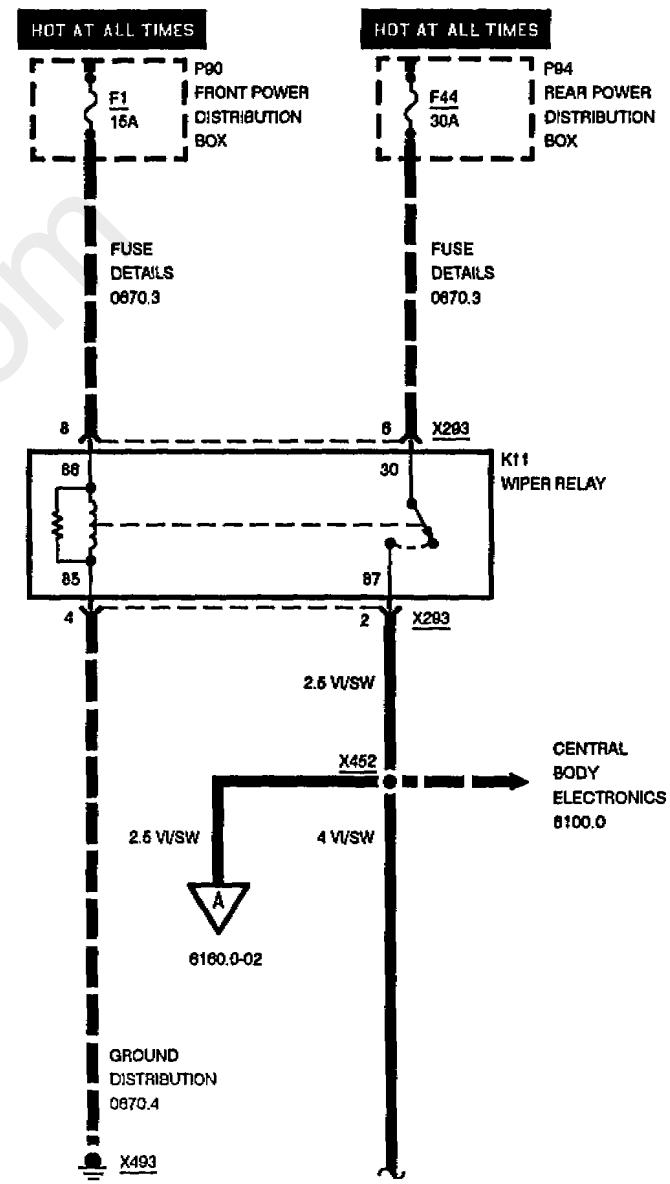
All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

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

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **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 module of the system being diagnosed.

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



cardiagn.com

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.

cardiagn.com

SYMBOLS



BATTERY


FUSE


FUSIBLE LINK


CIRCUIT BREAKER

SOLENOID


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID


HEATING ELEMENT


LOUDSPEAKER OR HORN


LIGHT



PERMANENT MAGNET MOTOR
ONE SPEED



PERMANENT MAGNET MOTOR
TWO SPEEDS


KNOCK SENSOR


VARIABLE RESISTANCE
SENSOR
VARIABLE CONTACT IS
MOVED BY AN EXTERNAL
FORCE

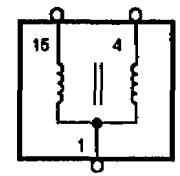

VARIABLE RESISTOR
RESISTANCE IS CHANGED
BY TEMPERATURE OR
PRESSURE

INDUCTIVE SENSOR


DIODE
CURRENT CAN FLOW ONLY
IN DIRECTION OF ARROW


ZENER DIODE
TO REGULATE VOLTAGE


LIGHT EMITTING DIODE



IGNITION COIL

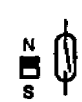

CONTROL/POWER ELECTRONICS


RADIO



TRANSISTORIZED SWITCH


OXYGEN SENSOR



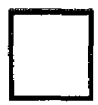
VEHICLE SPEED SENSOR



THERMO SWITCH

cardiagn.com

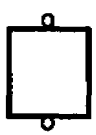
SYMBOLS



ENTIRE COMPONENT SHOWN



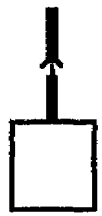
PART OF COMPONENT SHOWN



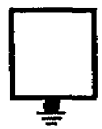
COMPONENT WITH SCREW TERMINALS



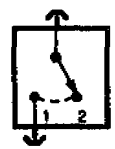
CONNECTOR ATTACHED TO COMPONENT



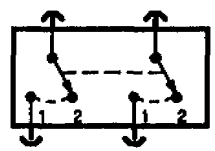
CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



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



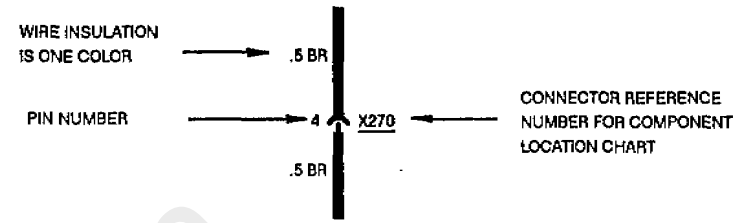
ONE POLE, TWO POSITION SWITCH

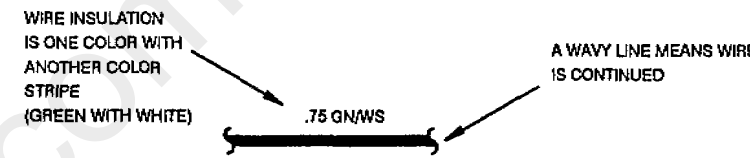


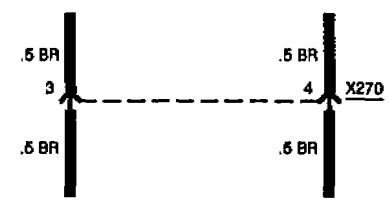
SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

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

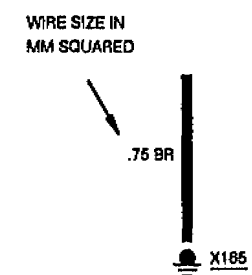






TWO CONNECTIONS (PINS) IN THE SAME CONNECTOR

DASHED LINE INDICATES TERMINALS OF THE SAME CONNECTOR

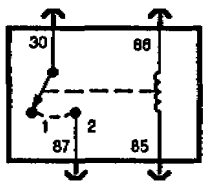


WIRE ATTACHED TO METAL PART OF CAR (GROUNDED)

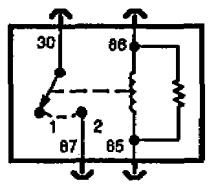
GROUND NUMBERED FOR REFERENCE ON COMPONENT LOCATION CHART

cartagn.com

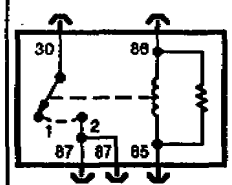
SYMBOLS



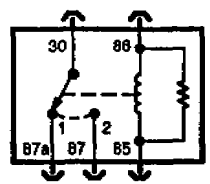
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

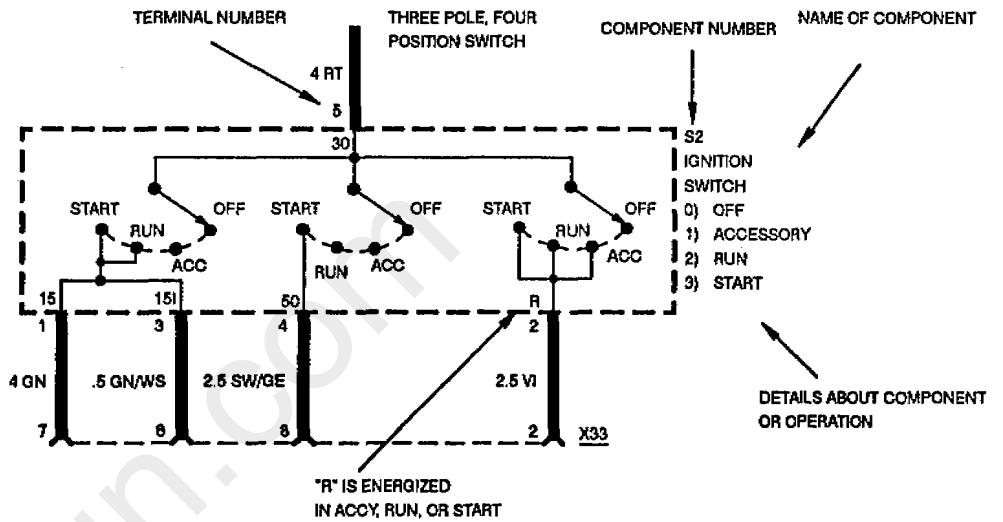


CONTACT RELAY WITH TWO OUTPUTS

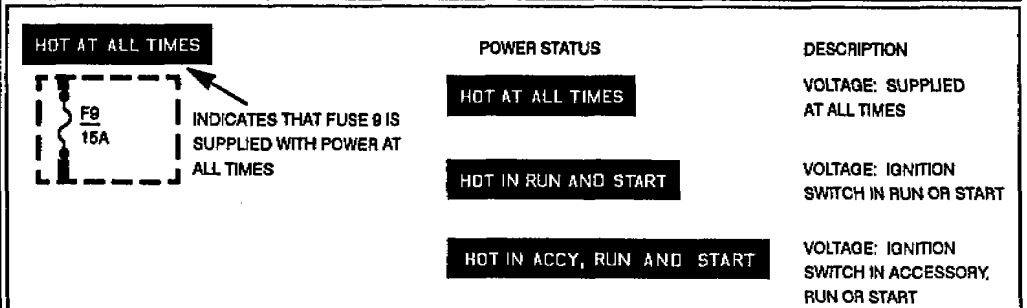


CHANGEOVER RELAY WITH TWO OUTPUTS

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

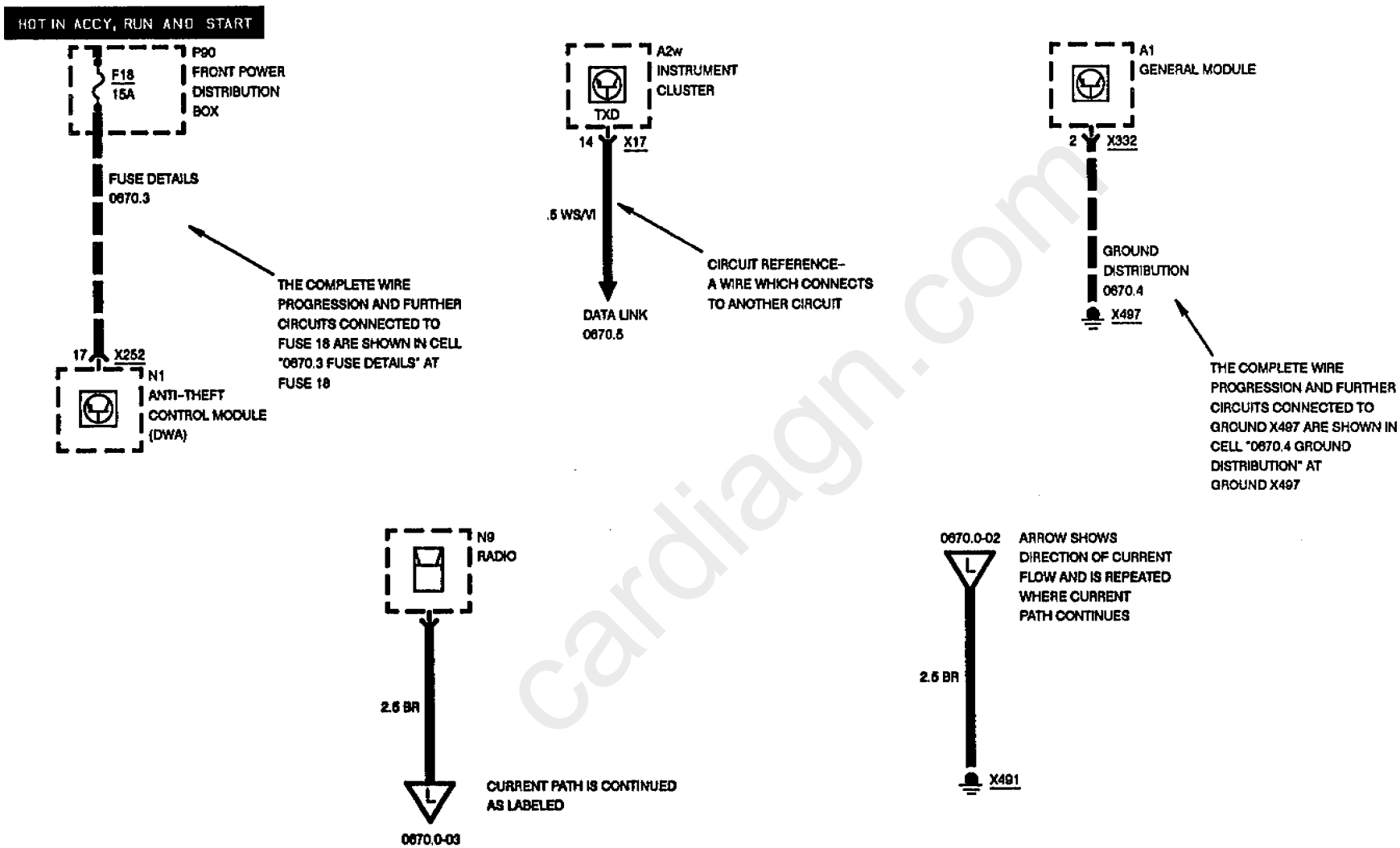


TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND



cardiagn.com

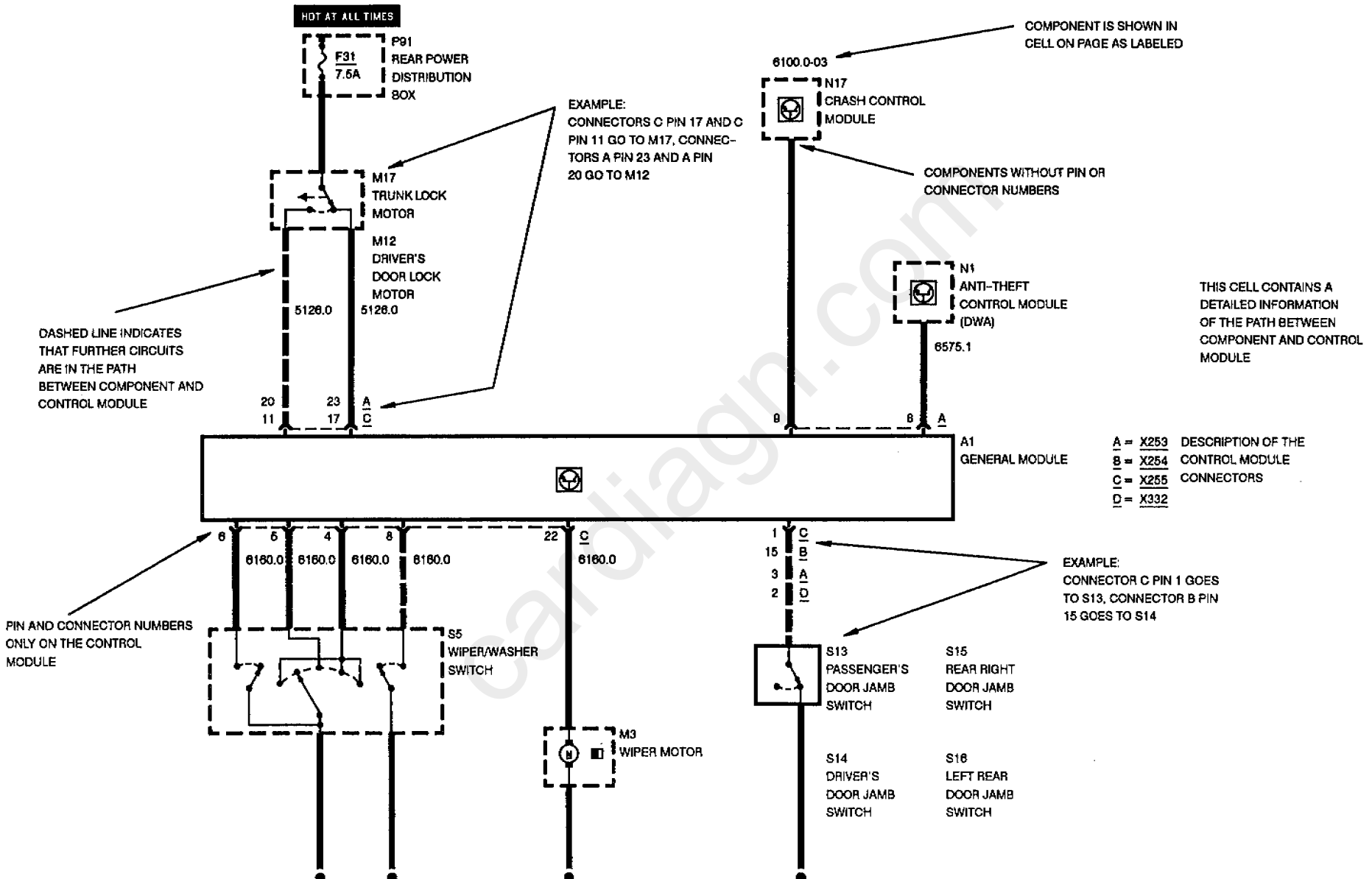
SYMBOLS



cardiagn.com

SYMBOLS

BLOCK DIAGRAM

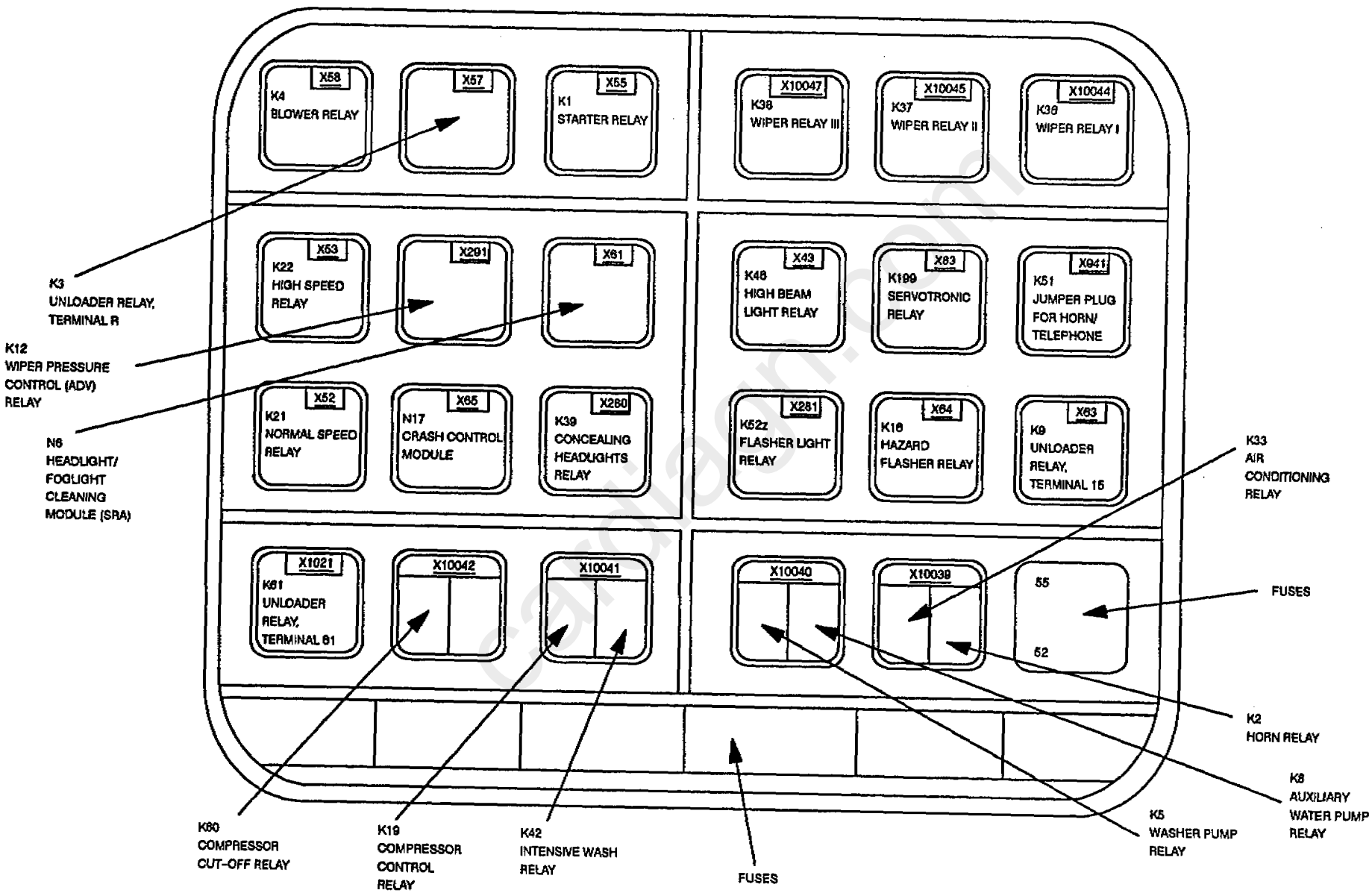


cardiagn.com

carldiagn.com

POWER DISTRIBUTION CHART

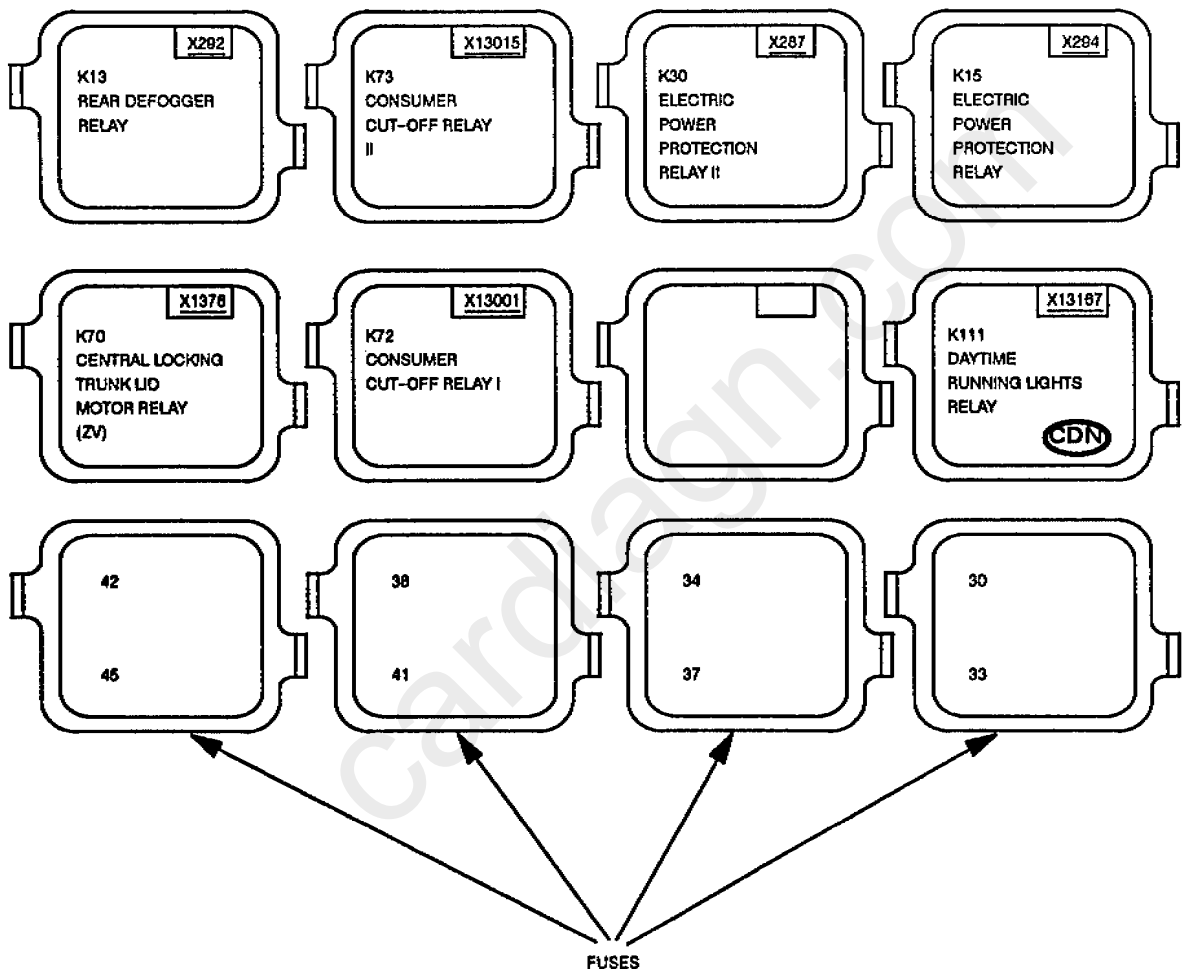
FRONT POWER DISTRIBUTION BOX



carmanual.com

POWER DISTRIBUTION CHART

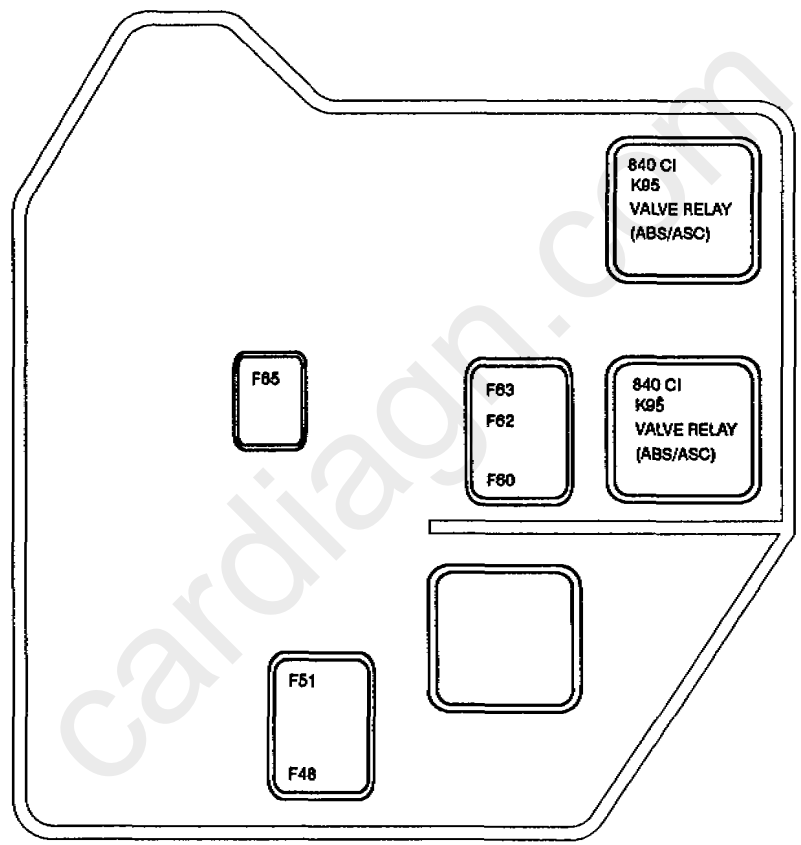
REAR POWER DISTRIBUTION BOX



cardiagn.com

POWER DISTRIBUTION CHART

AUXILIARY RELAY BOX - ENGINE COMPARTMENT



cardiagn.com

carclagn.com

FUSE CHART

CELLS OVERVIEW

0670.5	DATA LINK
	F28
1210.6	ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)
	F12, F23, F24, F28
1210.11	ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)
	F60, F23, F25
1230.0	CHARGING SYSTEM
	F17
1240.0	START
	F12, F17
1270.1	ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)
	F1, F8, F12
1290.0	E-BOX FAN
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-24)
	F8, F12
2460.7	ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/ A5S 560Z)
	F8, F12, F17
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT
	F40

FUSES OVERVIEW

F1	1270.1, 6160.0, 6211.0, 6412.2, 6450.0
7.5A	
F2	6167.0, 6300.0, 6301.0, 6312.0, 6314.0, 6320.0, 6332.0
7.5A	
F3	6300.0, 6301.0, 6312.0, 6313.0, 6314.0, 6320.0, 6325.0, 6332.0
7.5A	
F4	6300.0, 6301.0, 6314.0, 6320.0, 6332.0
7.5A	
F5	6300.0, 6301.0, 6312.0, 6314.0, 6320.0, 6332.0
10A	
F6	6313.0, 6350.0
15A	
F7	6301.0, 6312.0
30A	
F8	1270.1, 2460.0, 3450.2, 6301.0, 6325.0
7.5A	2460.7, 3450.0, 6571.0
F9	6133.0, 6164.0, 6301.0, 6312.0, 6561.0
20A	
F10	6301.0, 6312.0
7.5A	
F11	6301.0, 6312.0
7.5A	
F12	1210.6, 1240.0, 1270.1, 2460.0, 5116.0, 5200.1, 6169.0, 6210.0, 6211.0
15A	2460.7, 6571.0
F13	6312.0
7.5A	
F14	6312.0
7.5A	
F15	5410.0, 6100.0, 6160.0, 6164.0, 6167.0, 6330.0
10A	

cardiagn.com

FUSE CHART

CELLS OVERVIEW

3231.1	STEERING COLUMN MEMORY (LSM)
	F16, F18, F40
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)
	F53, F54
3240.0	POWER ASSIST STEERING (SERVOTRONIC)
	F28
3334.0	ACTIVE REAR AXLE KINEMATICS (AHK)
	F17, F29, F31
3450.0	SLIP CONTROL (ABS)
	F8, F17, F60
3450.2	SLIP CONTROL (ABS/ASC+T)
	F8, F17, F60, F62, F65
3450.5	SLIP CONTROL 5 (ASC 5)
	F8, F17, F60, F62, F63, F65
3715.2	ELECTRONIC SHOCK ABSORBER CONTROL (EDC III+)
	F29, F32
5116.0	POWER MIRRORS
	F12, F17, F18
5120.0	ZKE DOOR LOCK HEATING (TSH)
	F43

FUSES OVERVIEW

F16	3231.1, 5200.1, 5203.0
20A	
F17	1230.0, 3334.0, 3450.2, 5116.0, 5200.1, 6210.0, 6211.0, 6322.0, 6581.0, 6575.3
7.5A	1240.0, 2460.7, 3450.0, 3450.5
F18	3231.1, 5116.0, 5146.0, 5200.1, 6332.0, 6510.1, 6561.0, 6581.0, 6210.0, 6211.0,
7.5A	6575.3, 6610.1
F19	6412.2, 6450.0
30A	
F20	6301.0, 6312.0
30A	
F21	6412.2, 6424.0, 6450.0
7.5A	
F22	6160.0
30A	
F23	1210.6, 1210.11
15A	
F24	1210.6
15A	
F25	1210.11, 6454.0
30A	
F26	6312.0
15A	
F27	6167.0
30A	
F28	1210.6, 3240.0, 0670.5
15A	
F29	3715.2, 5133.0, 5410.0, 6100.0, 6160.0, 6164.0, 6167.0, 6450.0, 6454.0, 3334.0
7.5A	
F30	6561.0
15A	

cardiagn.com

FUSE CHART

CELLS OVERVIEW

5126.0	**ZKE CENTRAL LOCKING (ZV)**
	F31, F33, F34, F42, F43
5133.0	**ZKE POWER WINDOWS (FH)**
	F29, F31, F33, F34, F42, F43
5146.0	**POWER SUN SHADES**
	F18, F32
5200.0	**POWER SEATS**
	F37, F38
5200.1	**SEAT/MIRROR MEMORY SYSTEM (SM/SPM)**
	F12, F16, F17, F18, F37
5203.0	**HEATED SEATS**
	F16
5212.0	**LUMBAR SUPPORT**
	F37, F38
5410.0	**ZKE SUNROOF (SHD)**
	F15, F29, F31, F33, F34, F42, F43
6100.0	**CENTRAL BODY ELECTRONICS (ZKE II)**
	F15, F29, F31, F33, F34, F42, F43
6133.0	**HORN**
	F9

FUSES OVERVIEW

F31	5126.0, 5133.0, 5410.0, 6100.0, 6160.0, 6210.0, 6211.0, 6575.3, 6581.0, 6610.1
7.5A	
F32	3715.2, 5146.0
20A	
F33	5126.0, 5133.0, 5410.0, 6100.0, 6160.0, 6210.0, 6320.0, 6330.0, 6332.0
7.5A	
F34	5126.0, 5133.0, 5410.0, 6100.0, 6160.0
30A	
F35	3334.0
15A	
F36	6510.1
15A	
F37	5200.0, 5200.1, 5212.0
30A	
F38	5200.0, 5212.0
30A	
F39	6332.0
30A	
F40	3231.0, 3231.1
15A	
F41	6424.0
30A	
F42	5126.0, 5133.0, 5410.0, 6100.0, 6160.0
30A	
F43	5120.0, 5126.0, 5133.0, 5410.0, 6100.0, 6160.0, 6330.0
10A	

cardiagn.com

FUSE CHART

CELLS OVERVIEW

6160.0	ZKE WIPER/WASHER CONTROL
	F1, F15, F22, F29, F31, F33, F34, F42, F43
6164.0	ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)
	F9, F15, F29
6167.0	ZKE HEADLIGHT WASHER (SRA)
	F2, F15, F27, F29
6169.0	WINDSHIELD WASHER JET HEATERS
	F12
6210.0	BODY ELECTRONICS MODULE (EKM)
	F12, F17, F18, F31, F33
6211.0	INSTRUMENT CLUSTER
	F1, F12, F17, F18, F31, F55
6300.0	LIGHT SWITCH DETAILS
	F2, F3, F4, F5
6301.0	LAMP MONITOR (LKM)
	F2, F3, F4, F6, F7, F8, F9, F10, F11
6312.0	HEADLIGHTS/ FOG LIGHTS
	F2, F3, F5, F7, F9, F10, F11, F13, F14, F20, F26
6313.0	TURN/HAZARD LIGHTS
	F3, F6

FUSES OVERVIEW

F54	3234.0
5A	
F55	3234.0, 6211.0
5A	
F60	1210.11, 2460.0, 3450.0, 3450.2, 3450.5
10A	

cardiagn.com

FUSE CHART

CELLS OVERVIEW

6314.0	PARK/TAIL/ UNDERHOOD LIGHTS
	F2, F3, F4, F5
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS
	F2, F3, F4, F5, F33
6322.0	BACK UP LIGHTS
	F17
6325.0	BRAKE LIGHTS
	F3, F8
6330.0	ZKE INTERIOR LIGHTS CONTROL (IB)
	F15, F33, F43
6332.0	INTERIOR ACCESSORIES
	F2, F3, F4, F5, F18, F33, F39
6350.0	CRASH CONTROL MODULE
	F6
6412.2	PARK VENTILATION WITH IHKA
	F1, F19, F21
6424.0	REAR WINDOW DEFOGGER
	F21, F41
6450.0	AUTOMATIC HEATING/AC CONTROL (IHKA)
	F1, F19, F21

FUSES OVERVIEW

F62	3450.0, 3450.2, 3450.5
25A	
F63	3450.5
25A	
F65	3450.2, 3450.5
50A	

cardiagn.com

BMW 8

FUSE CHART

CELLS OVERVIEW

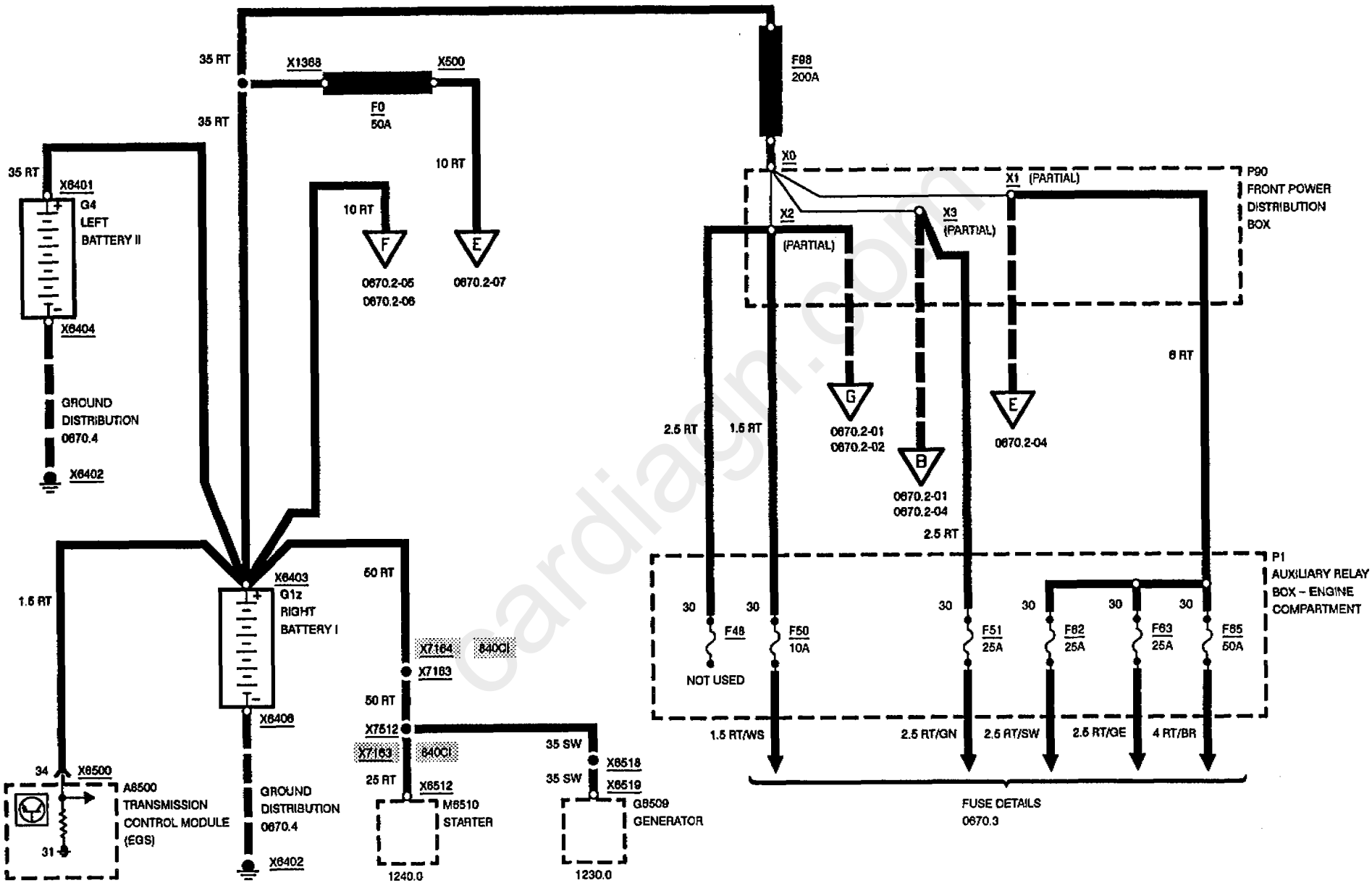
6454.0	AUXILIARY FAN
	F25, F29
6510.1	RADIO/HIFI
	F18, F36
6561.0	CELLULAR TELEPHONE (PROVISIONS)
	F9, F18, F30
6571.0	CRUISE CONTROL (TEMPOMAT)
	F8, F12
6575.3	ANTI-THEFT SYSTEM IV (DWA IV)
	F17, F18, F31
6581.0	ON-BOARD COMPUTER (BCIV)
	F17, F18, F31
6610.1	REMOTE CONTROLLED LOCKING SYSTEM
	F18, F31

FUSES OVERVIEW

cardiagn.com

POWER DISTRIBUTION

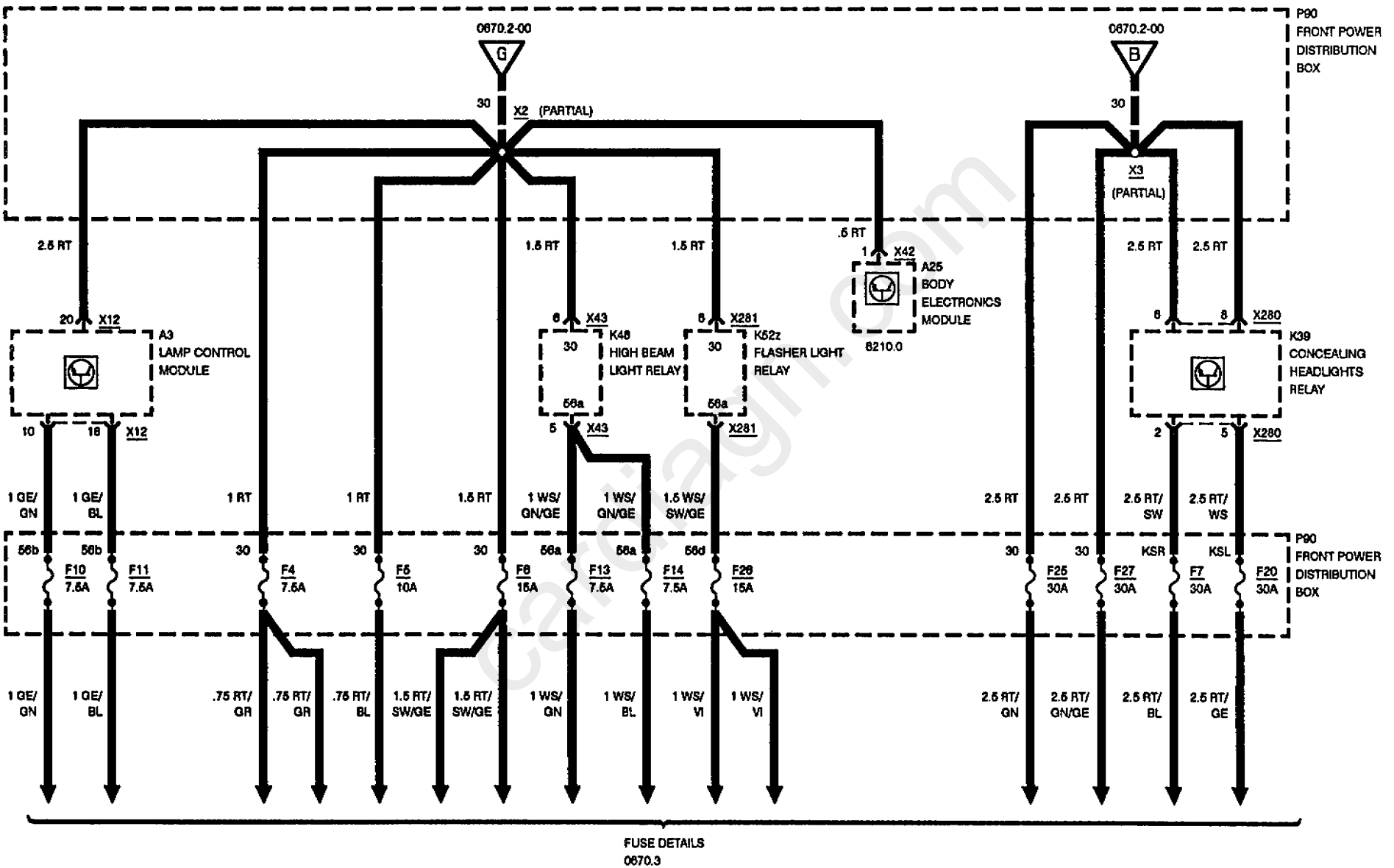
FRONT POWER DISTRIBUTION BOX



cardiagn.com

POWER DISTRIBUTION

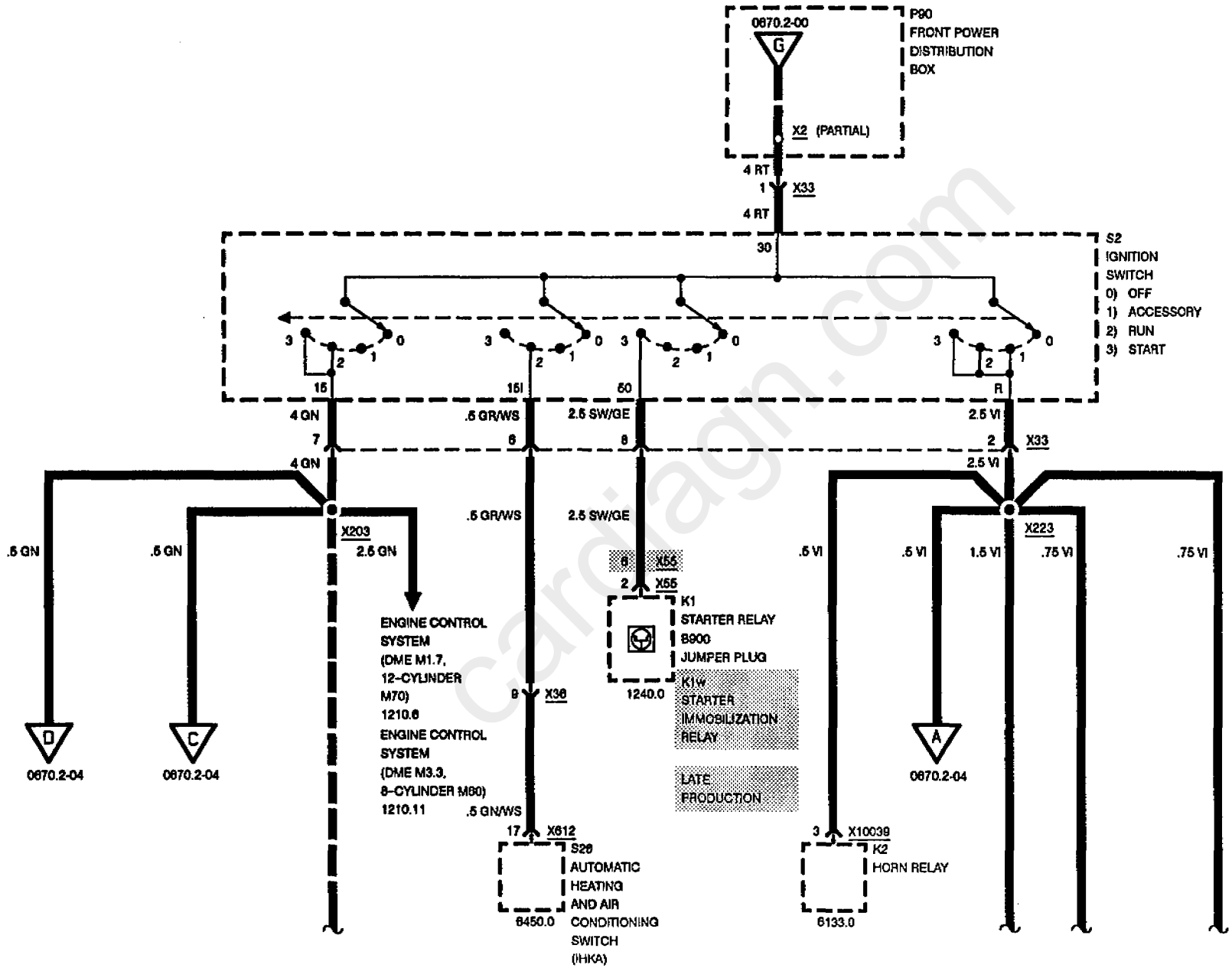
FRONT POWER DISTRIBUTION BOX



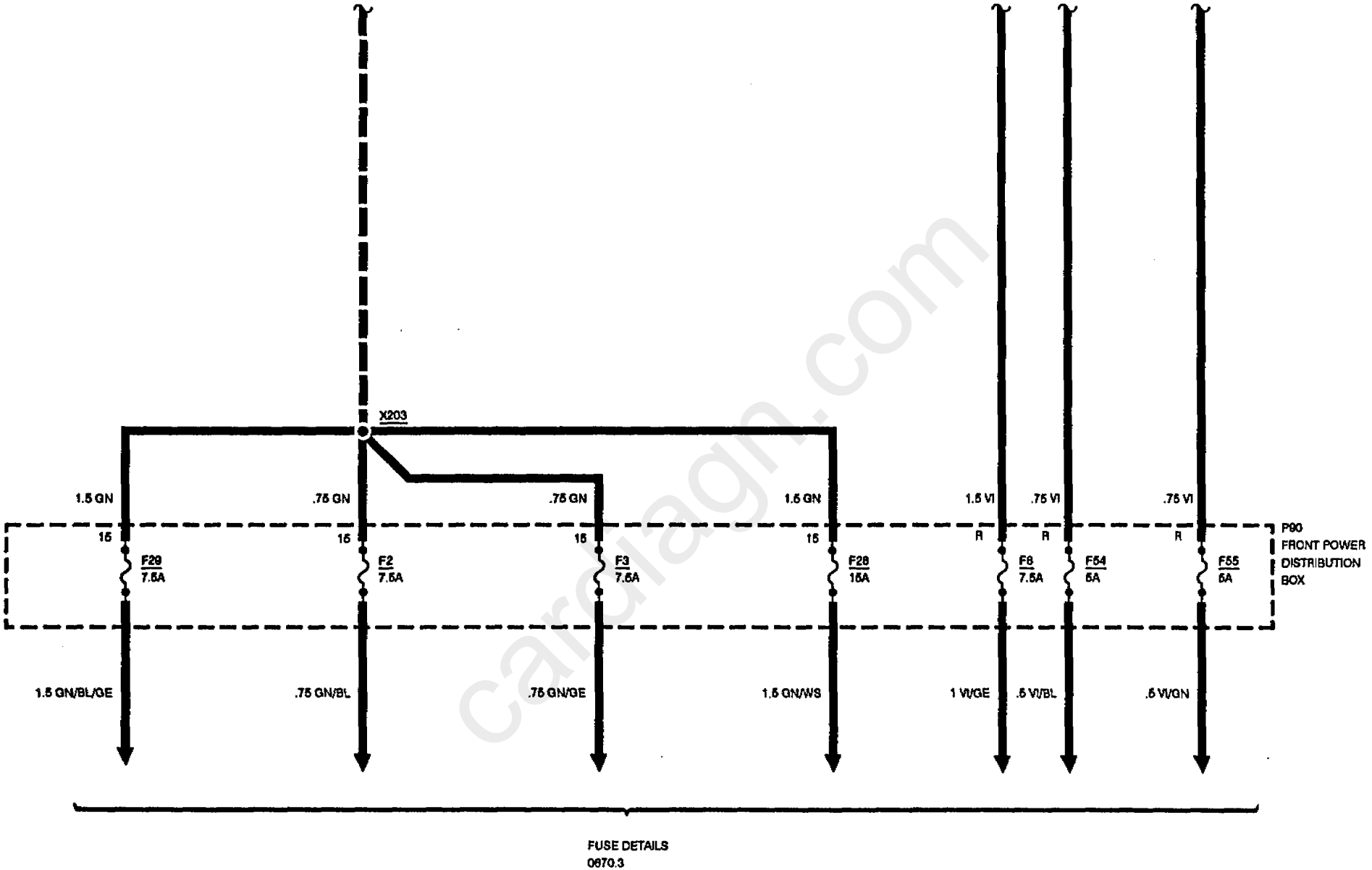
cardiagn.com

POWER DISTRIBUTION

FRONT POWER DISTRIBUTION BOX



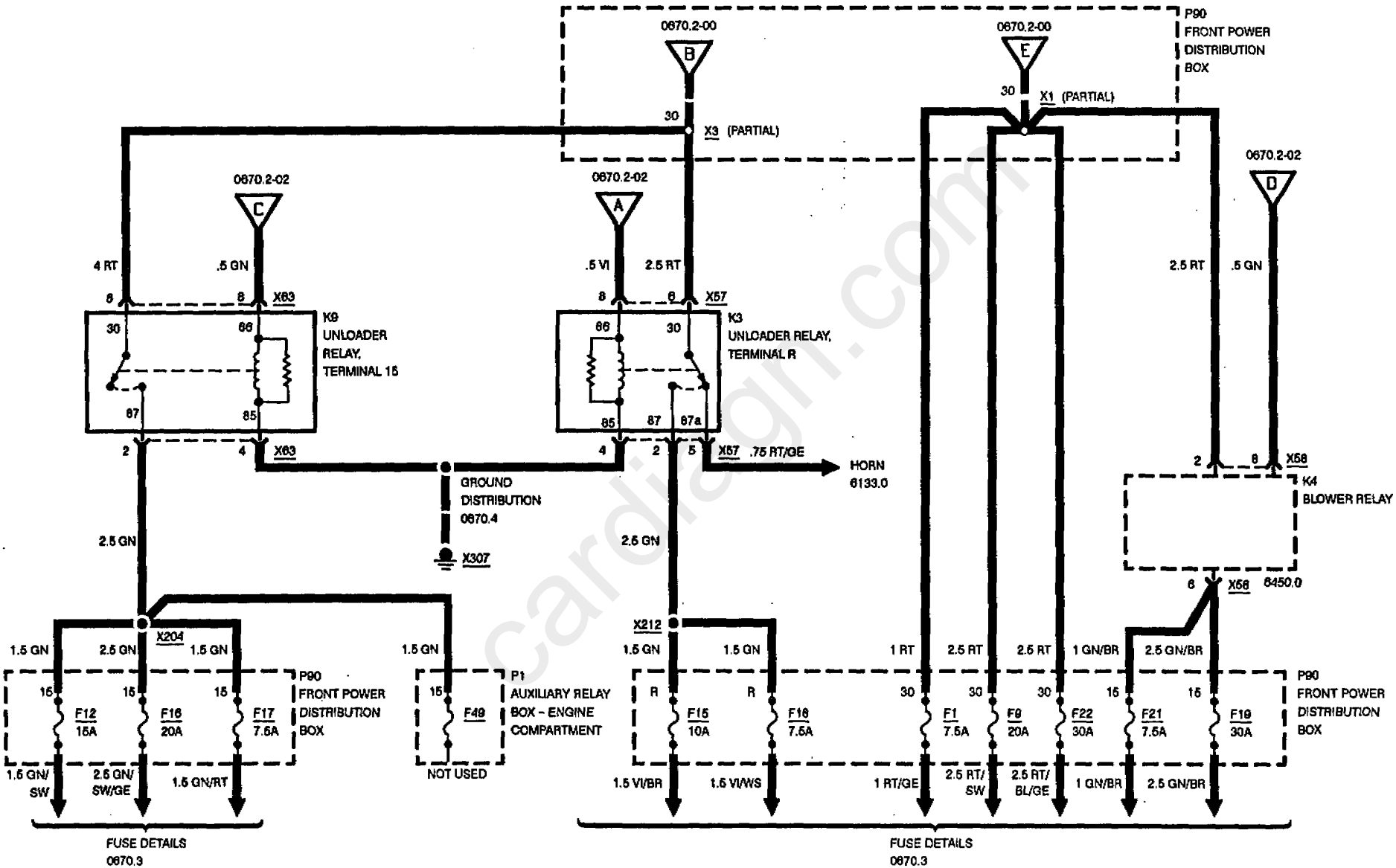
cardiagn.com



cardiagn.com

POWER DISTRIBUTION

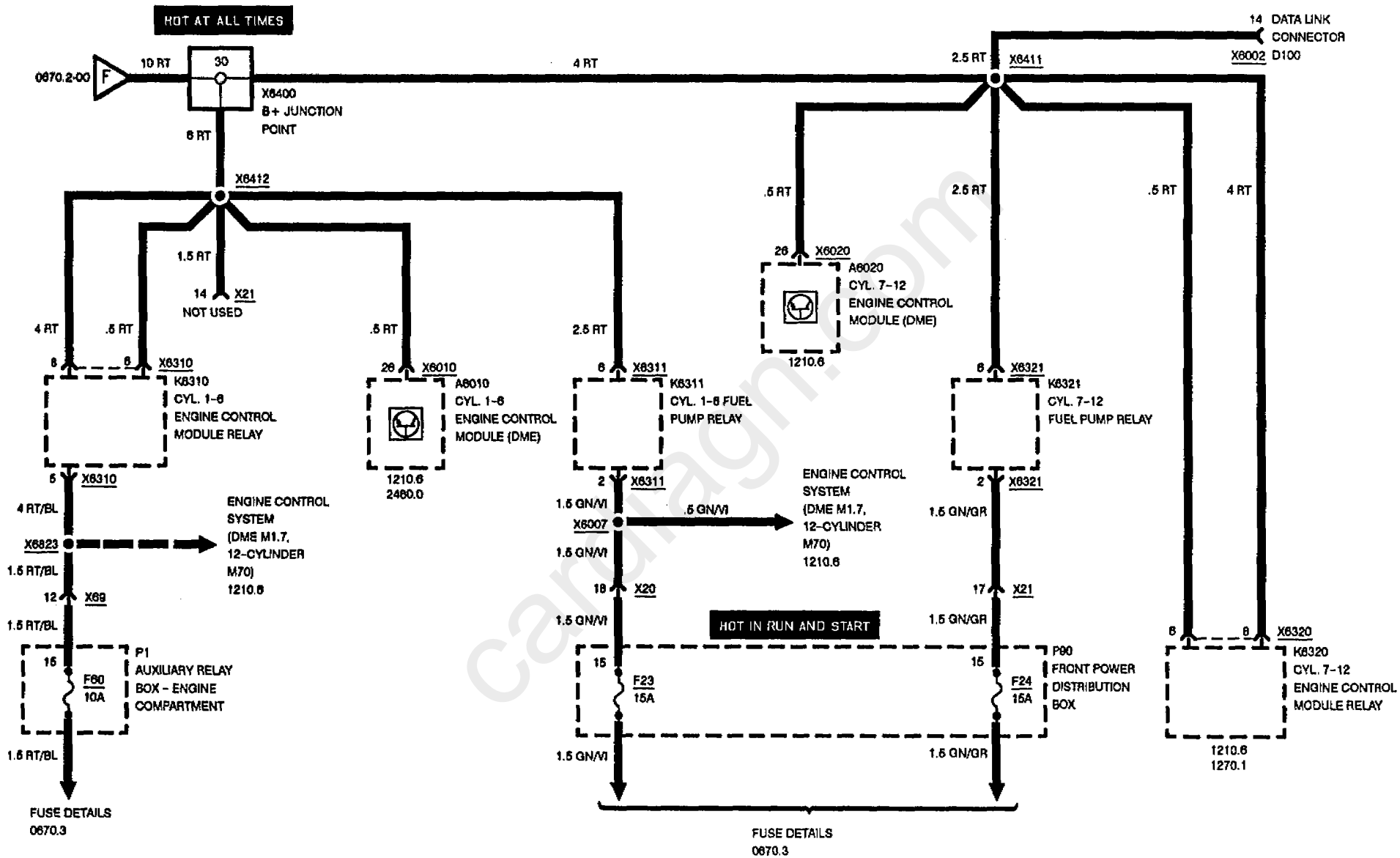
FRONT POWER DISTRIBUTION BOX



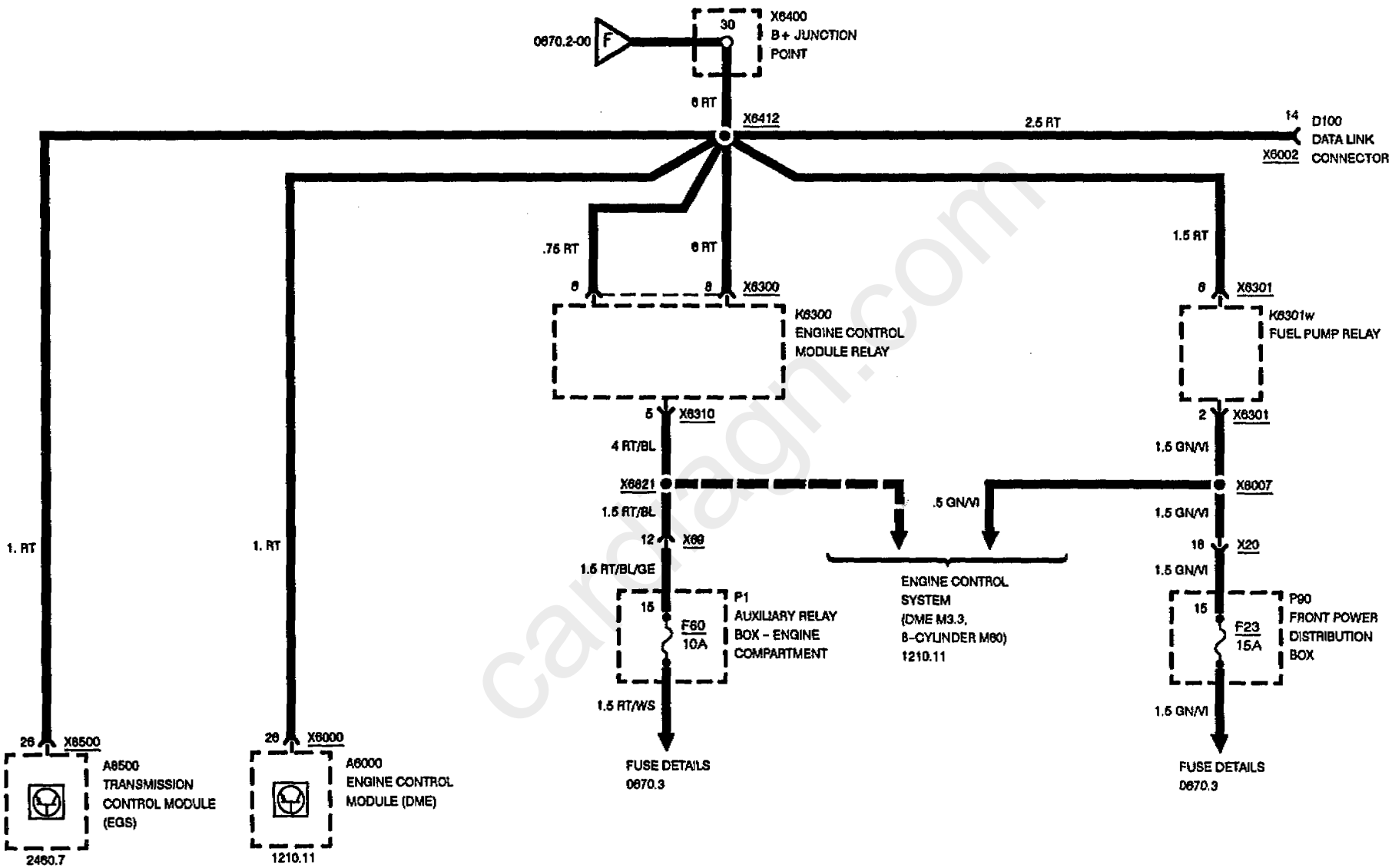
cardiagn.com

POWER DISTRIBUTION

850CSi/850Ci

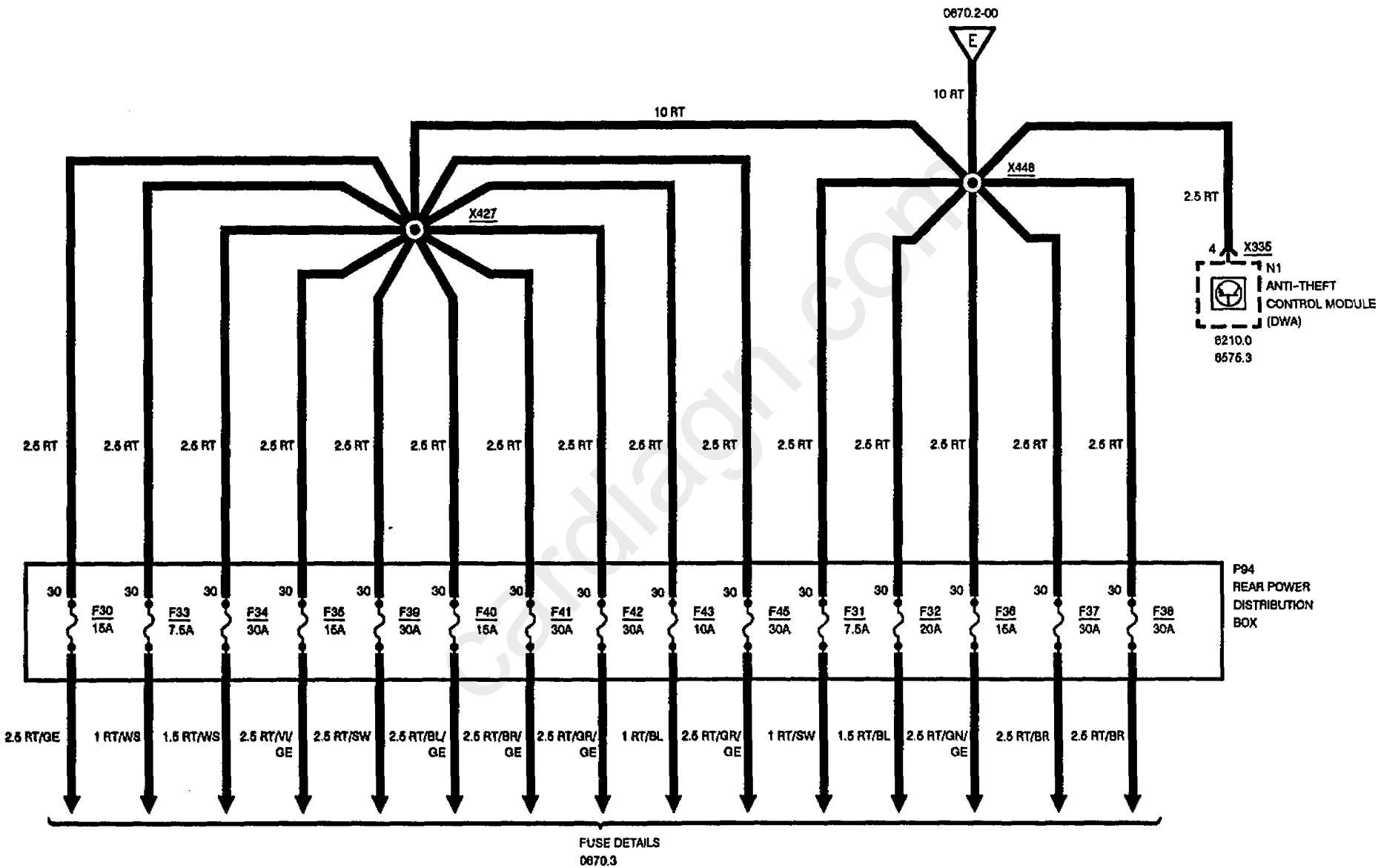


carmagn.com



cardiagn.com

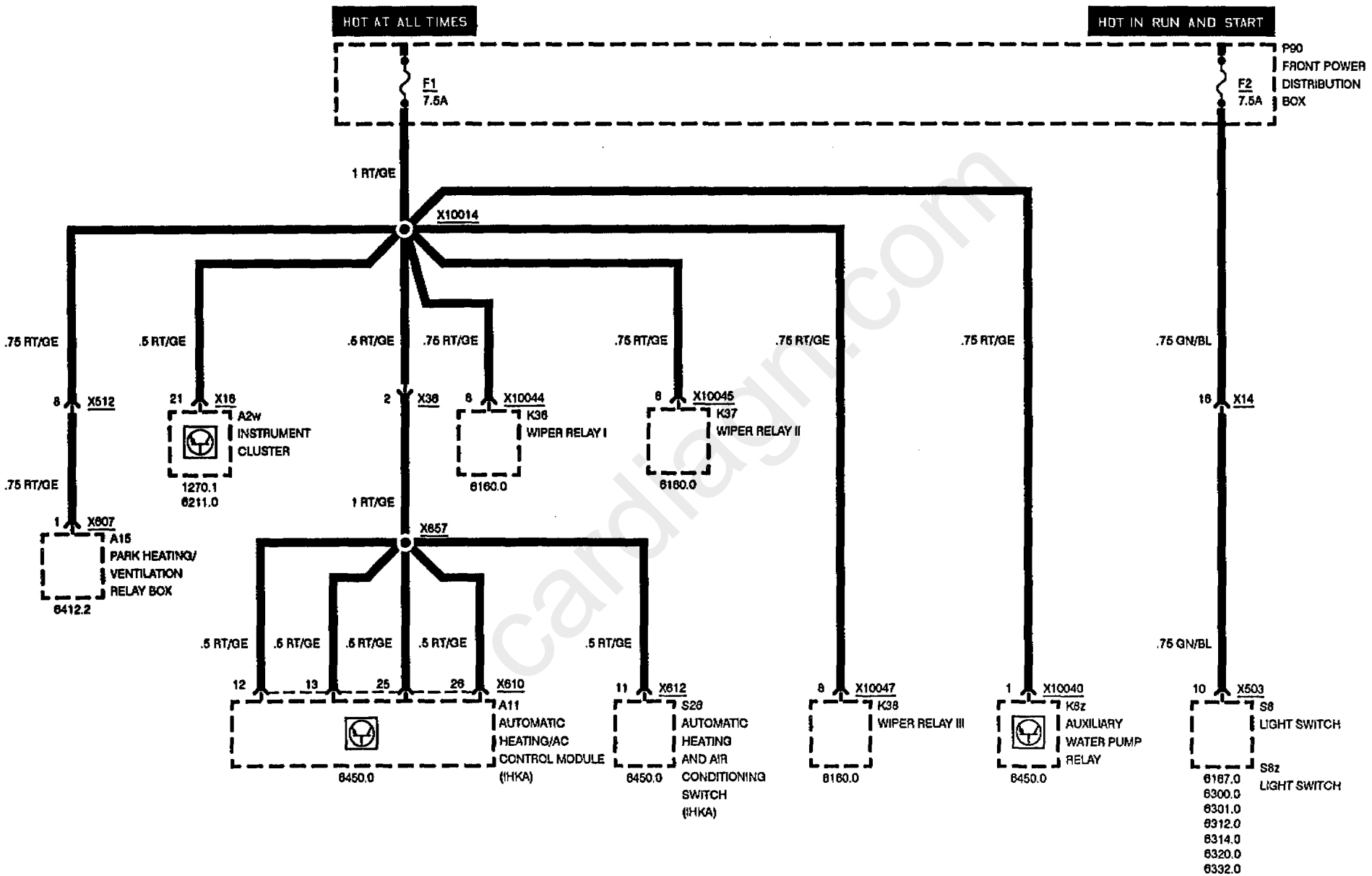
POWER DISTRIBUTION



cardiagn.com

FUSE DETAILS

FUSES 1 AND 2

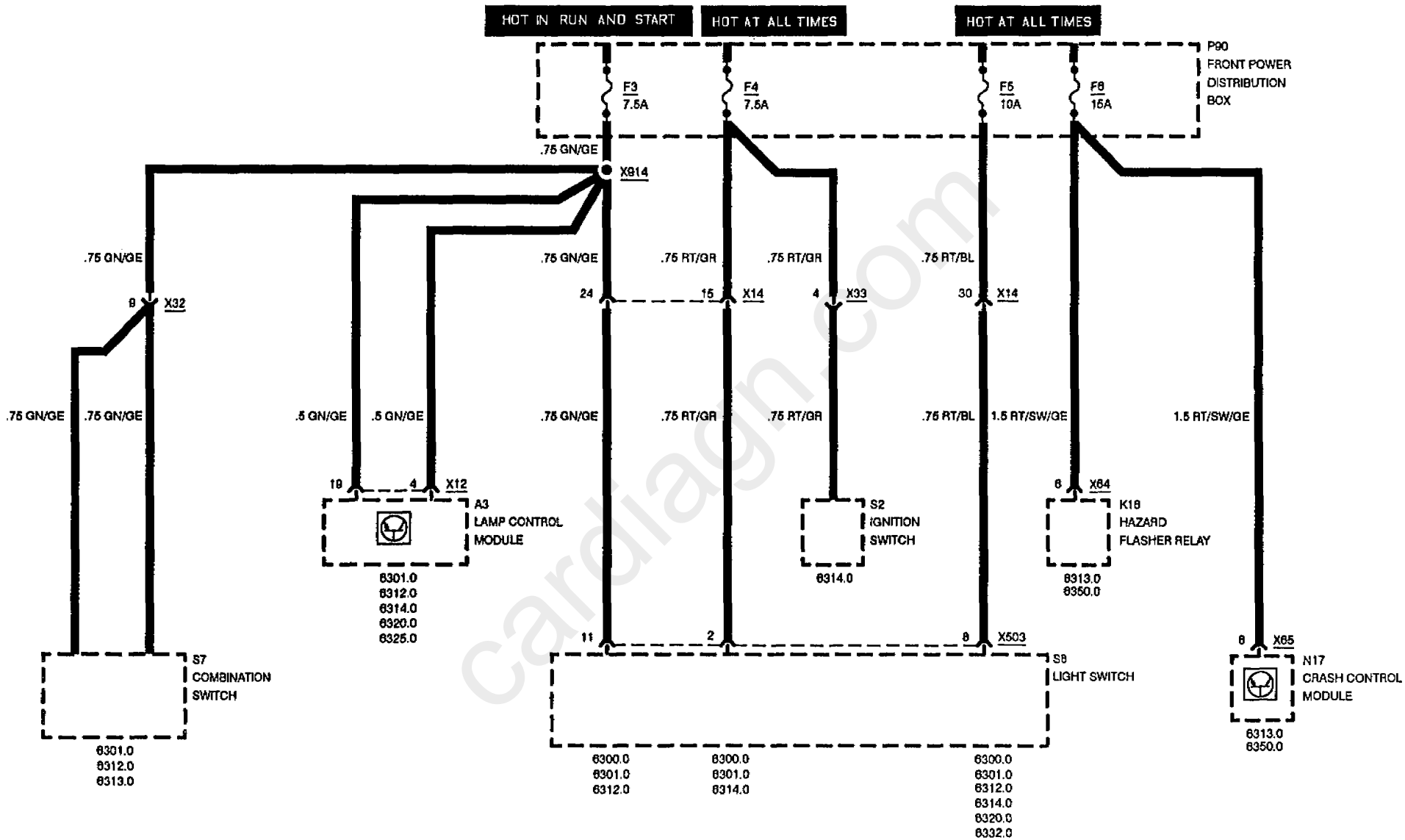


cardiagn.com

FUSE DETAILS

USA

FUSES 3, 4, 5, AND 6

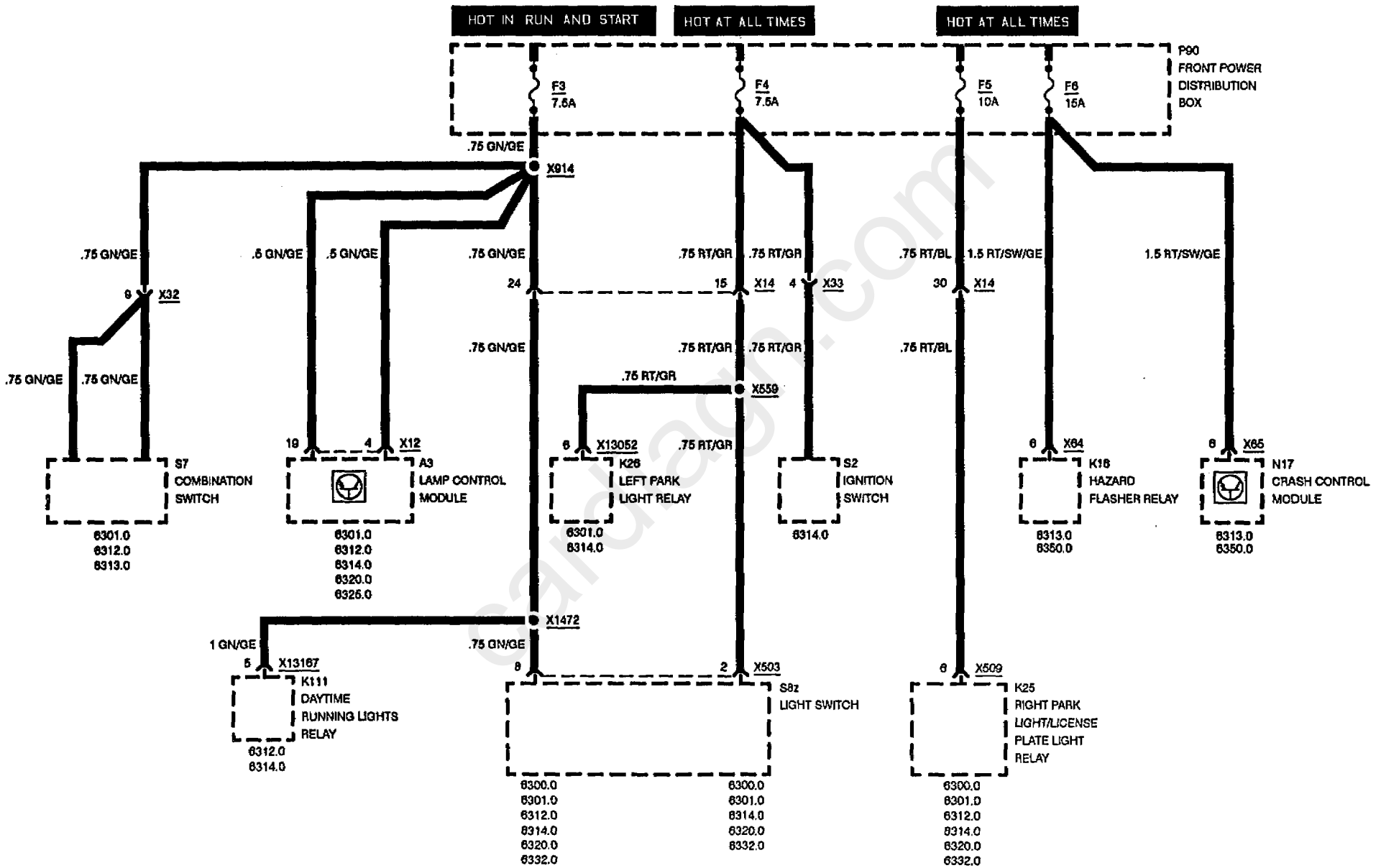


cardiagn.com

FUSE DETAILS

CDN

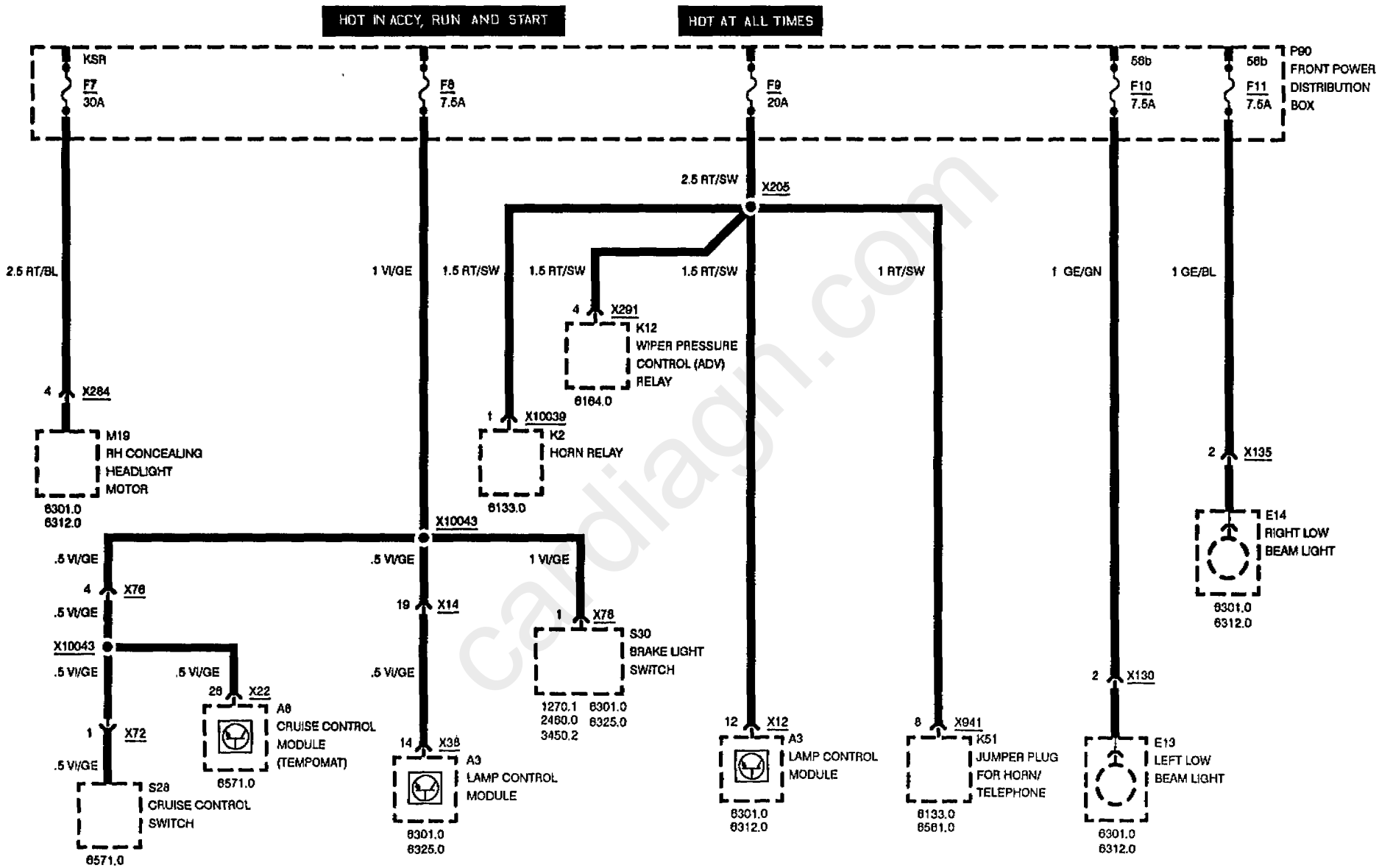
FUSES 3, 4, 5, AND 6



carlagn.com

FUSE DETAILS

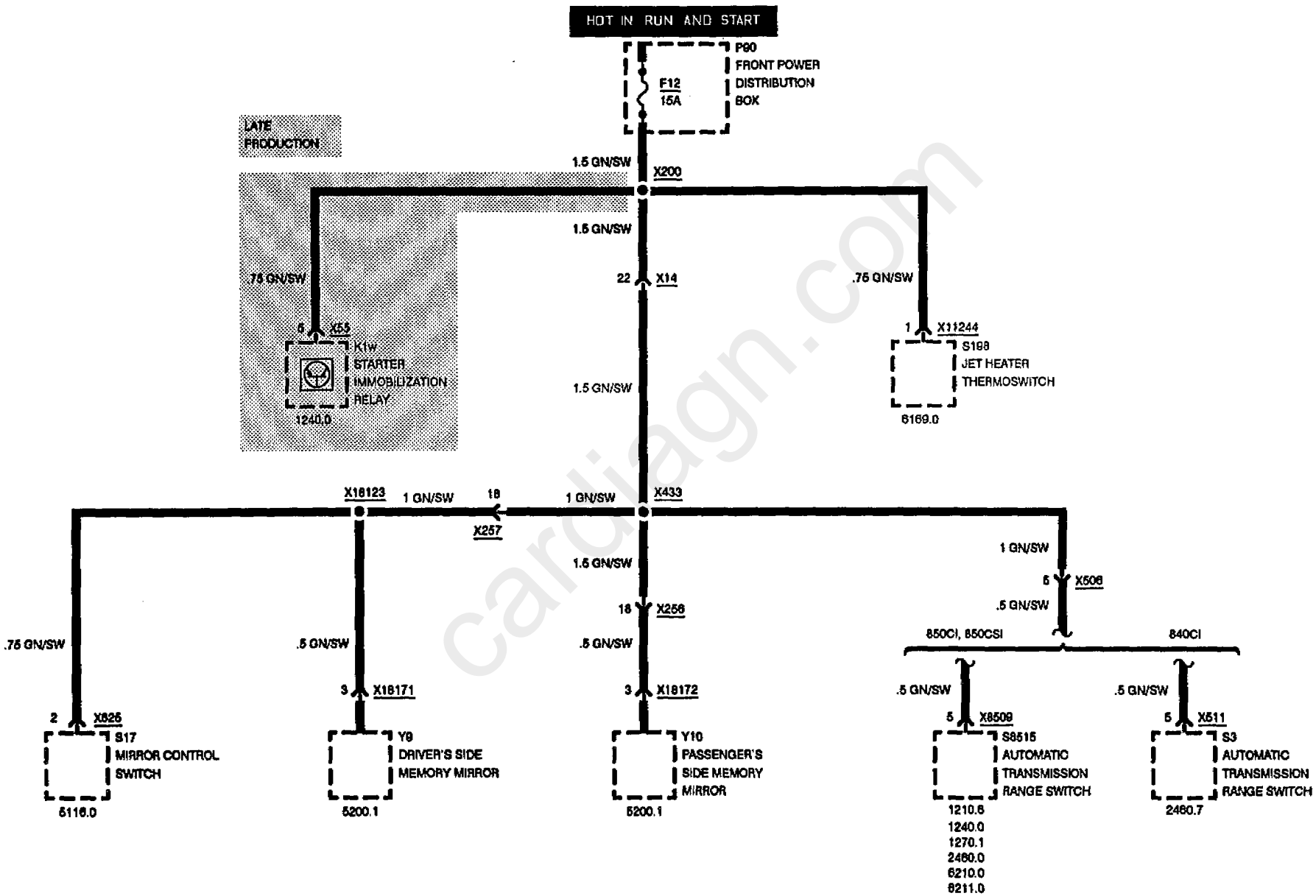
FUSES 7, 8, 9, 10, AND 11



cardiagn.com

FUSE DETAILS

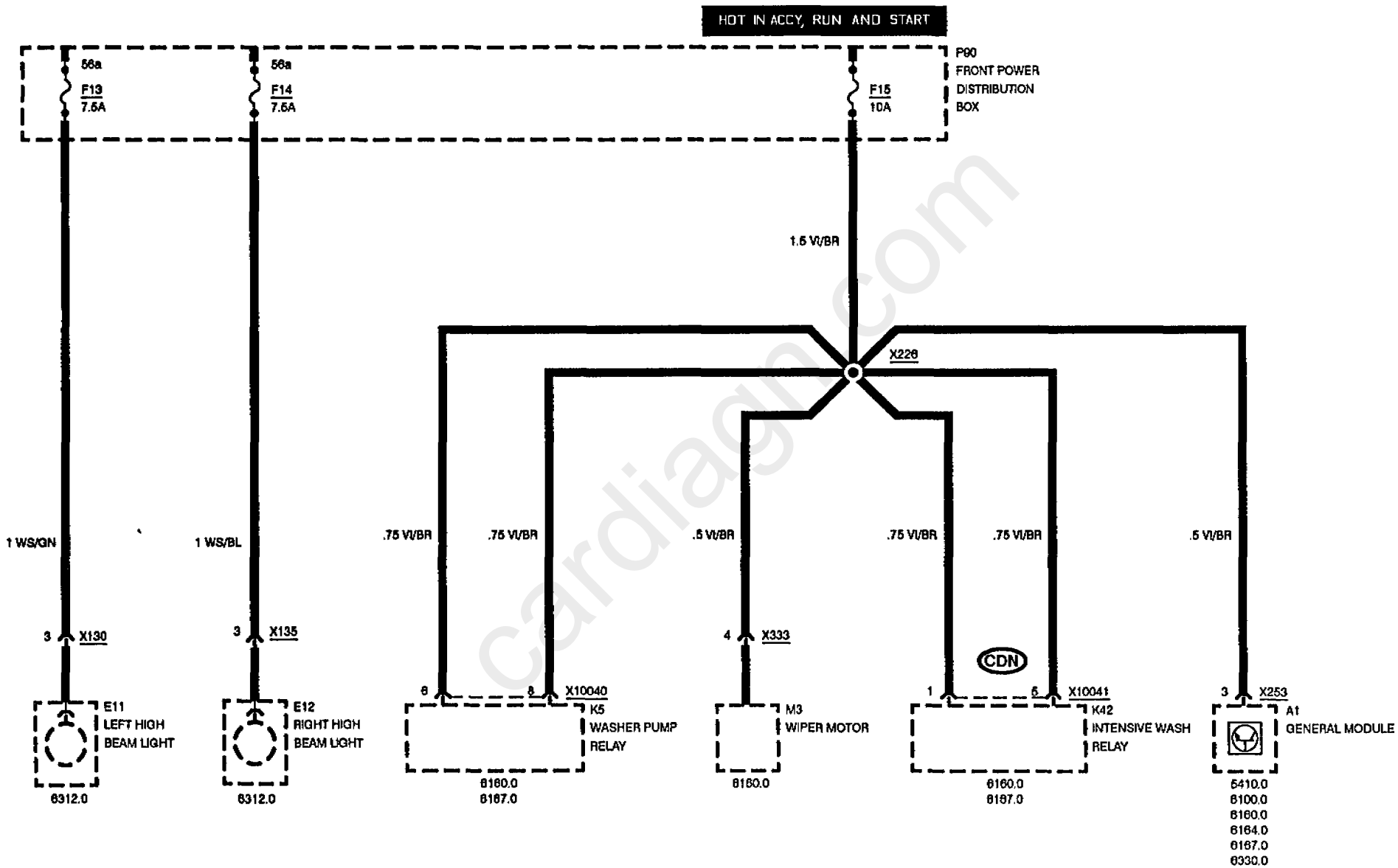
FUSE 12



cardiagn.com

FUSE DETAILS

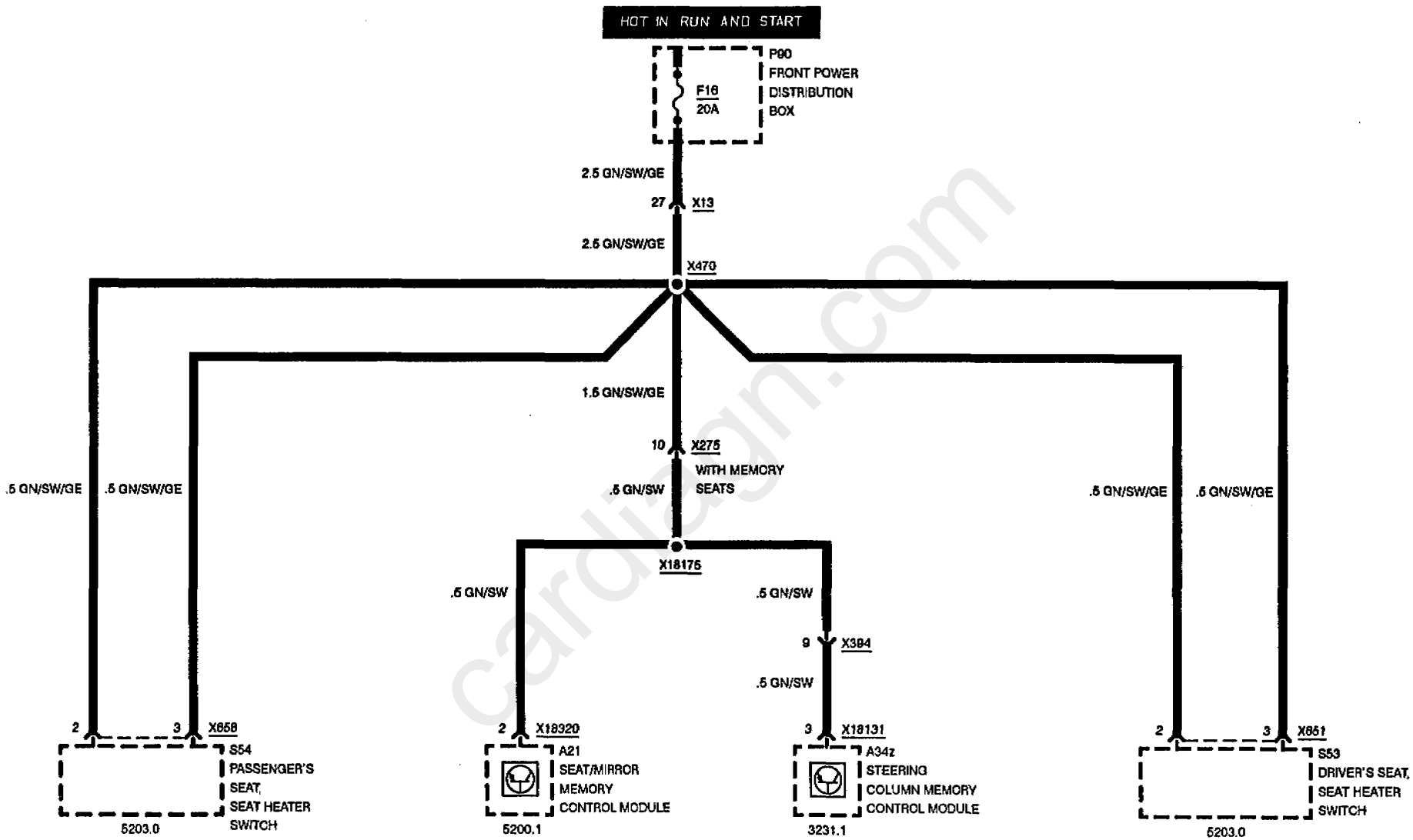
FUSES 13, 14, AND 15



cardiagn.com

FUSE DETAILS

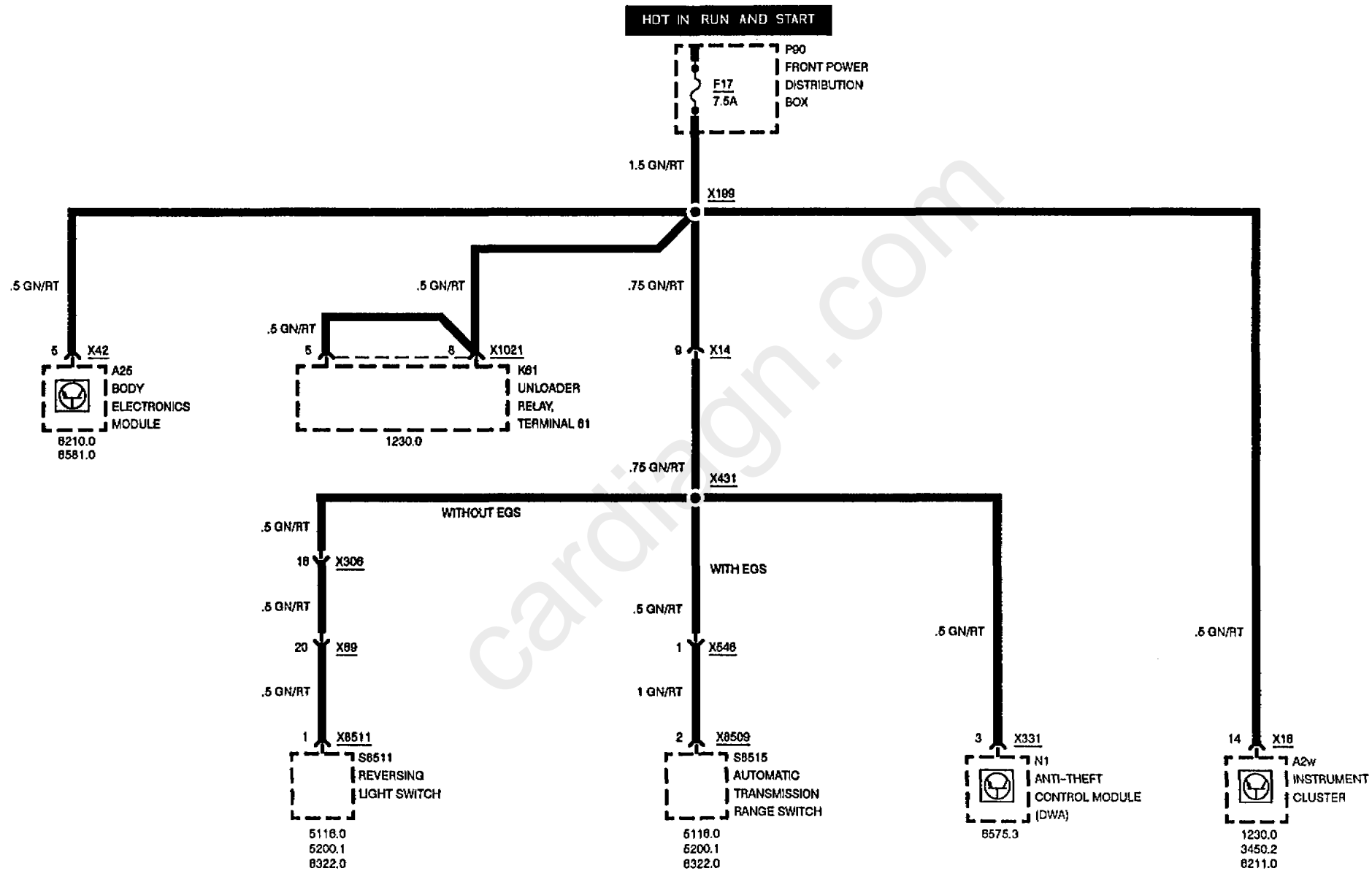
FUSE 16



cardiagn.com

FUSE DETAILS

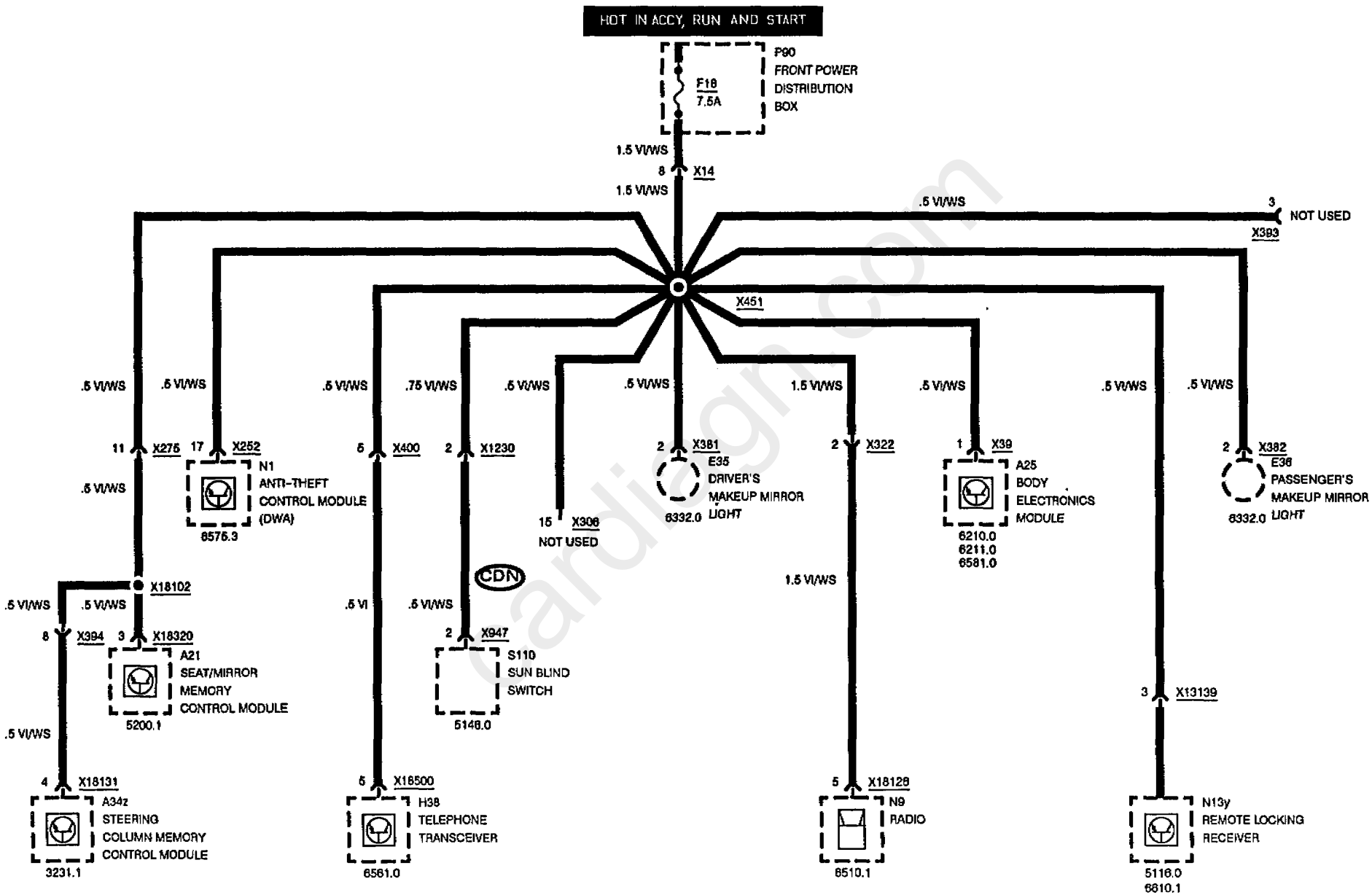
FUSE 17



cardiagn.com

FUSE DETAILS

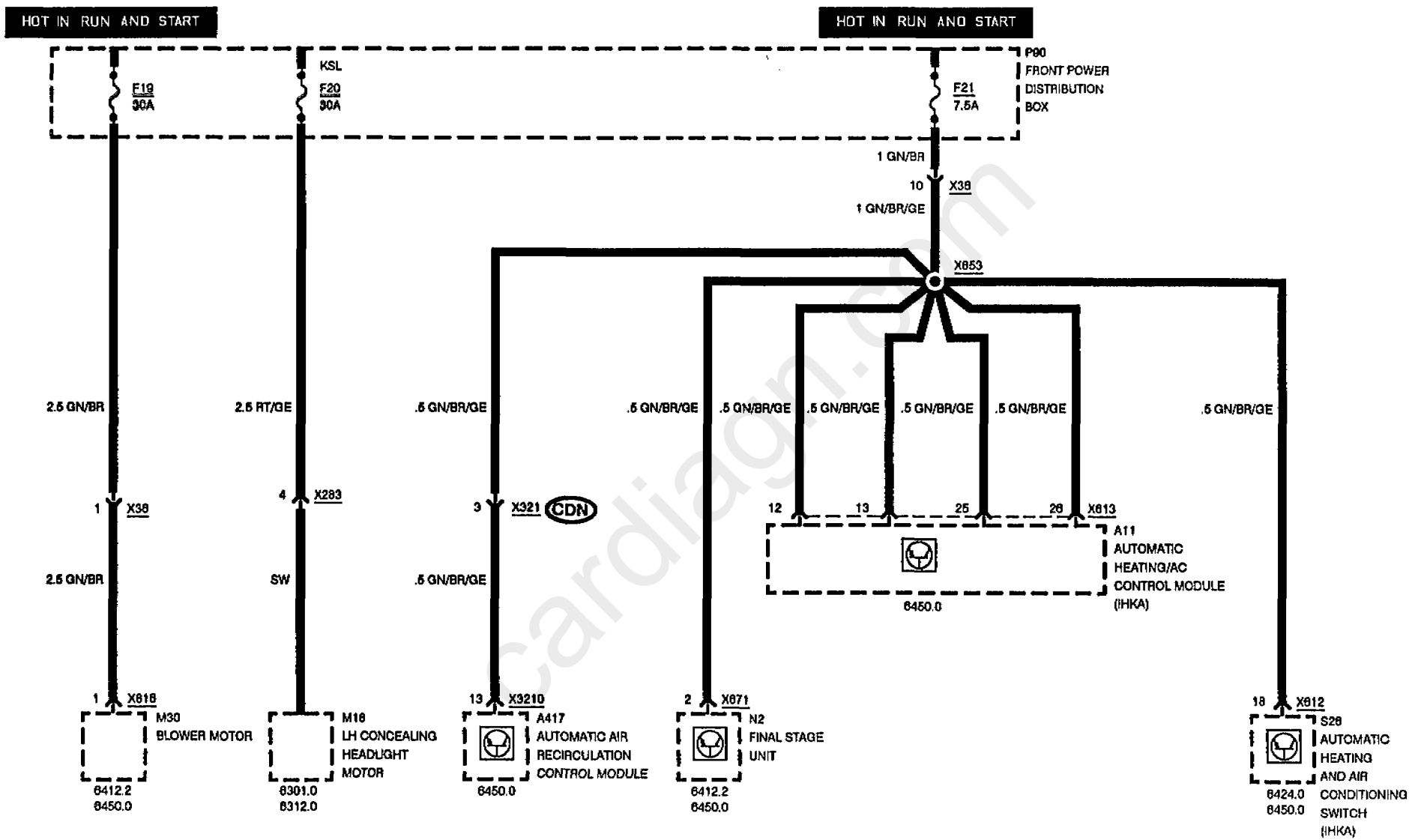
FUSE 18



cardiagn.com

FUSE DETAILS

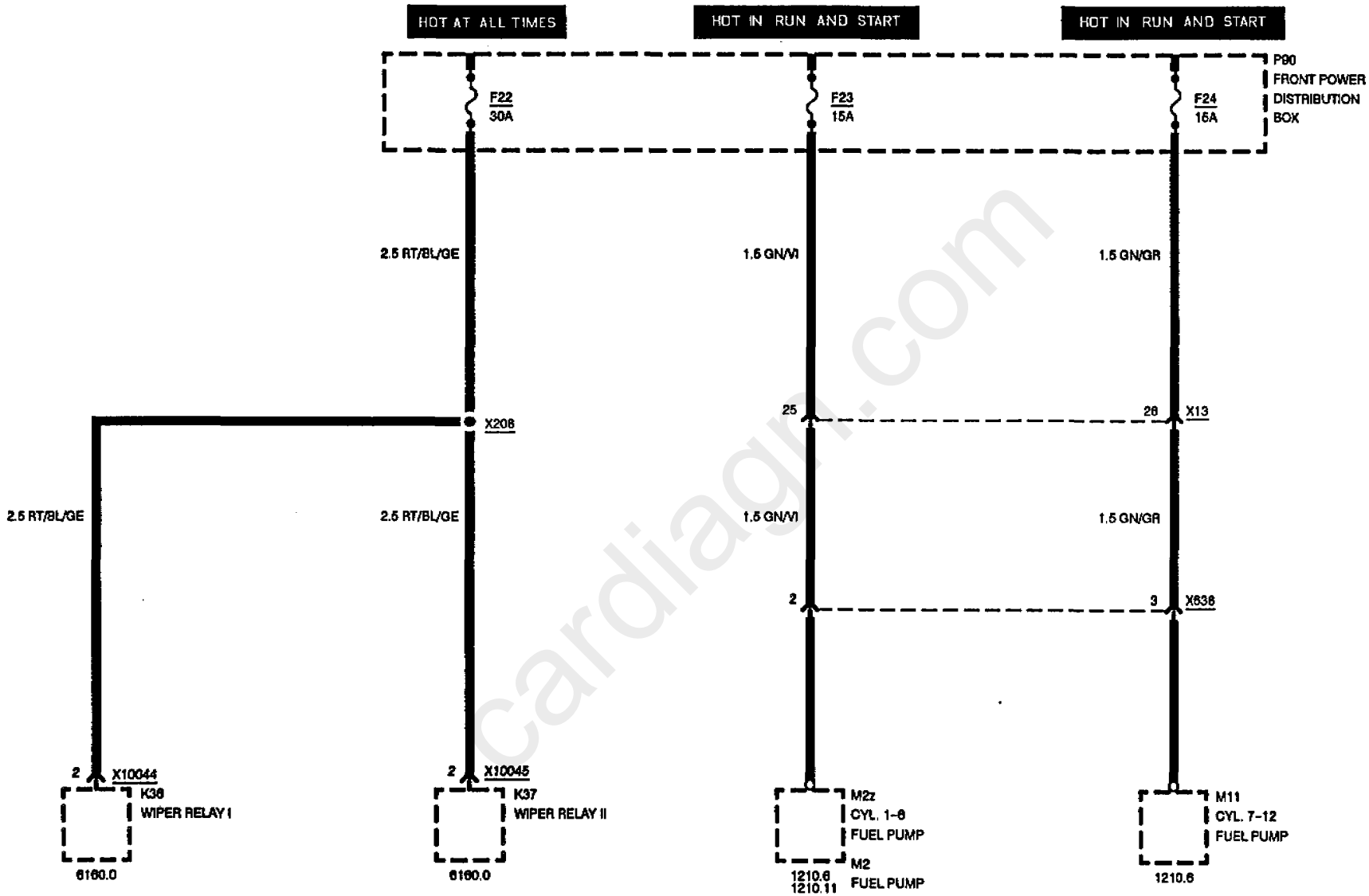
FUSES 19, 20, AND 21



cardiagn.com

FUSE DETAILS

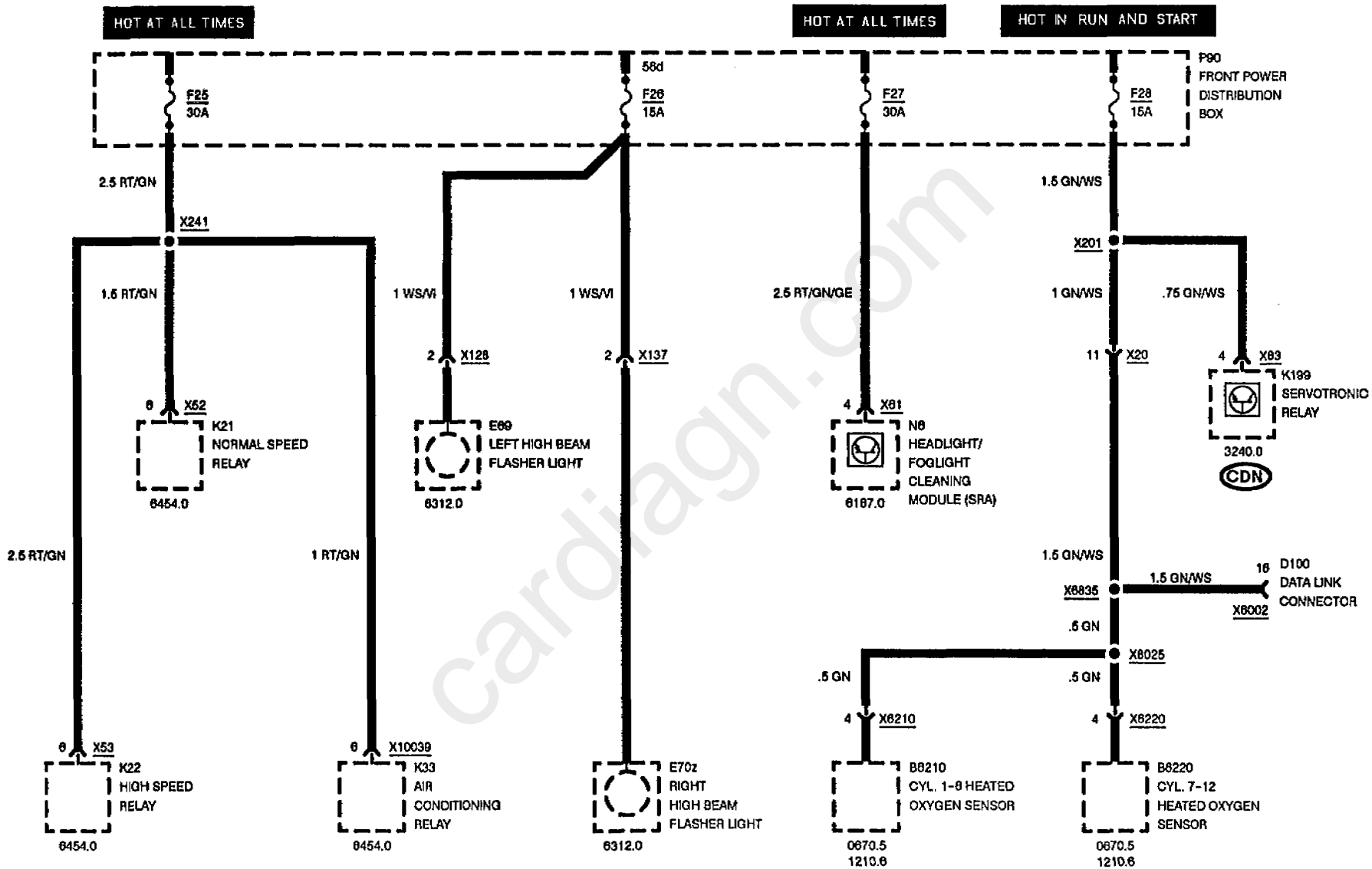
FUSES 22, 23, AND 24



cardiagn.com

FUSE DETAILS

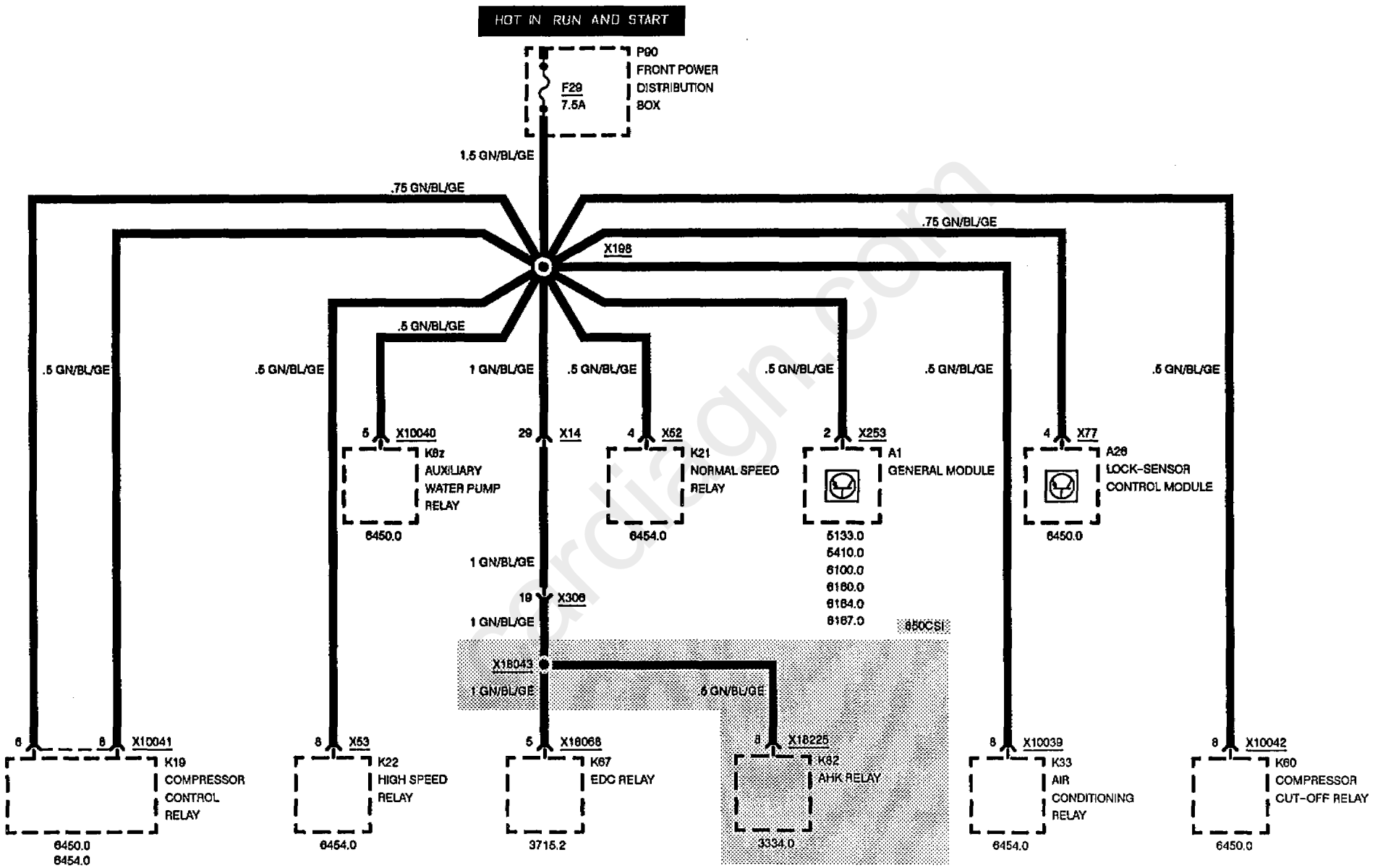
FUSES 25, 26, 27, AND 28



cardiagn.com

FUSE DETAILS

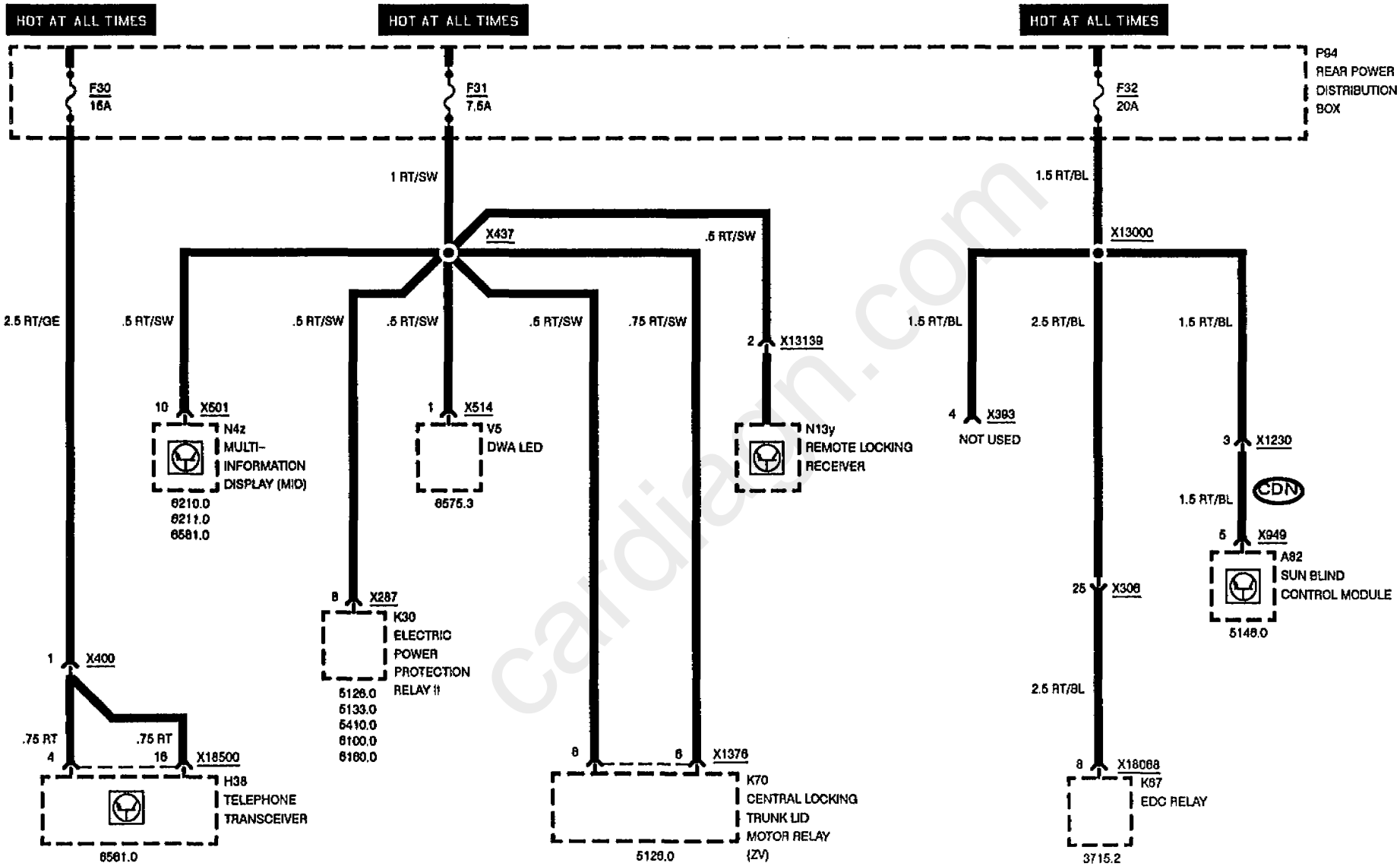
FUSE 29



bmdiagram.com

FUSE DETAILS

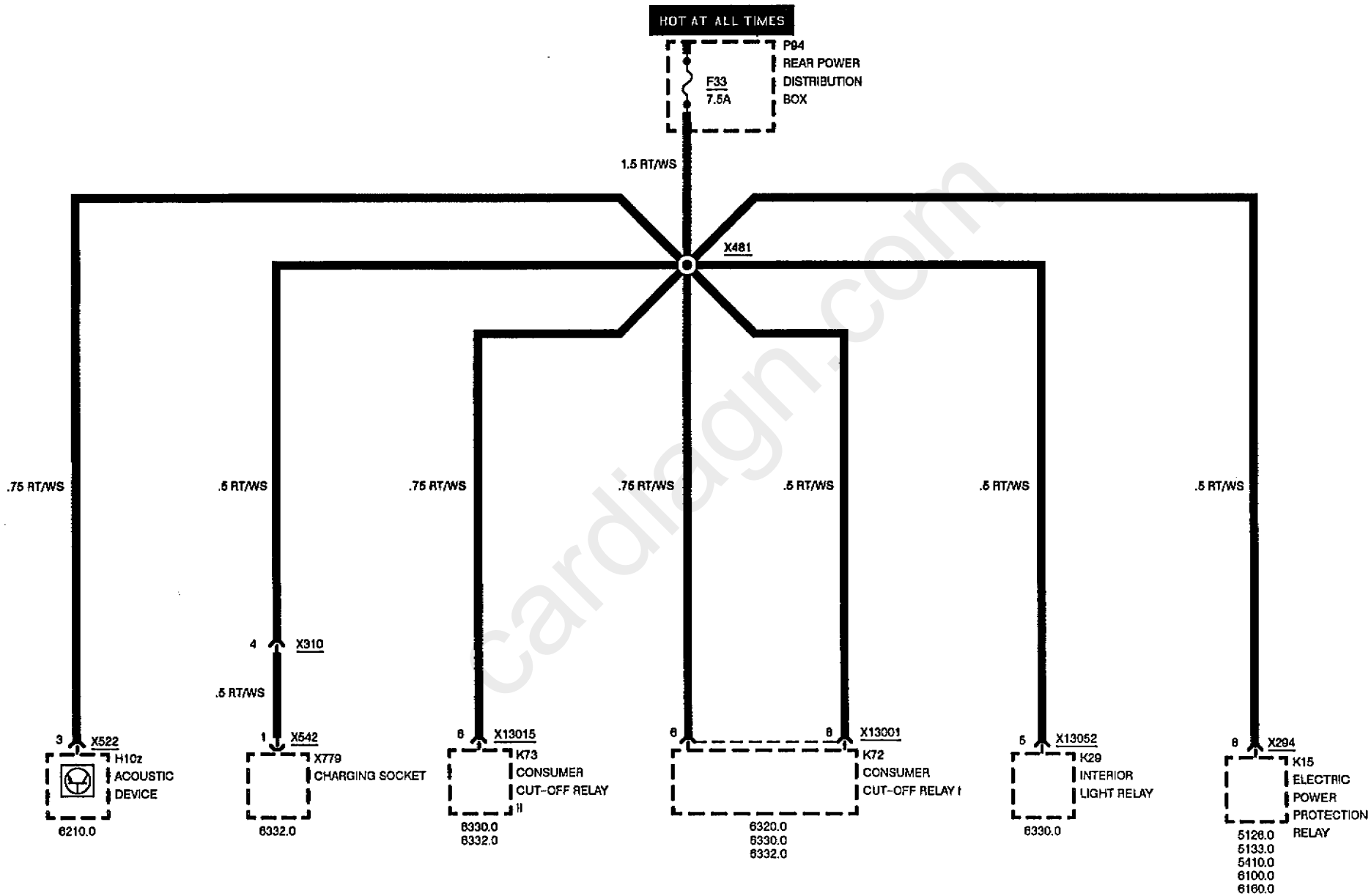
FUSES 30, 31, AND 32



cardiagn.com

FUSE DETAILS

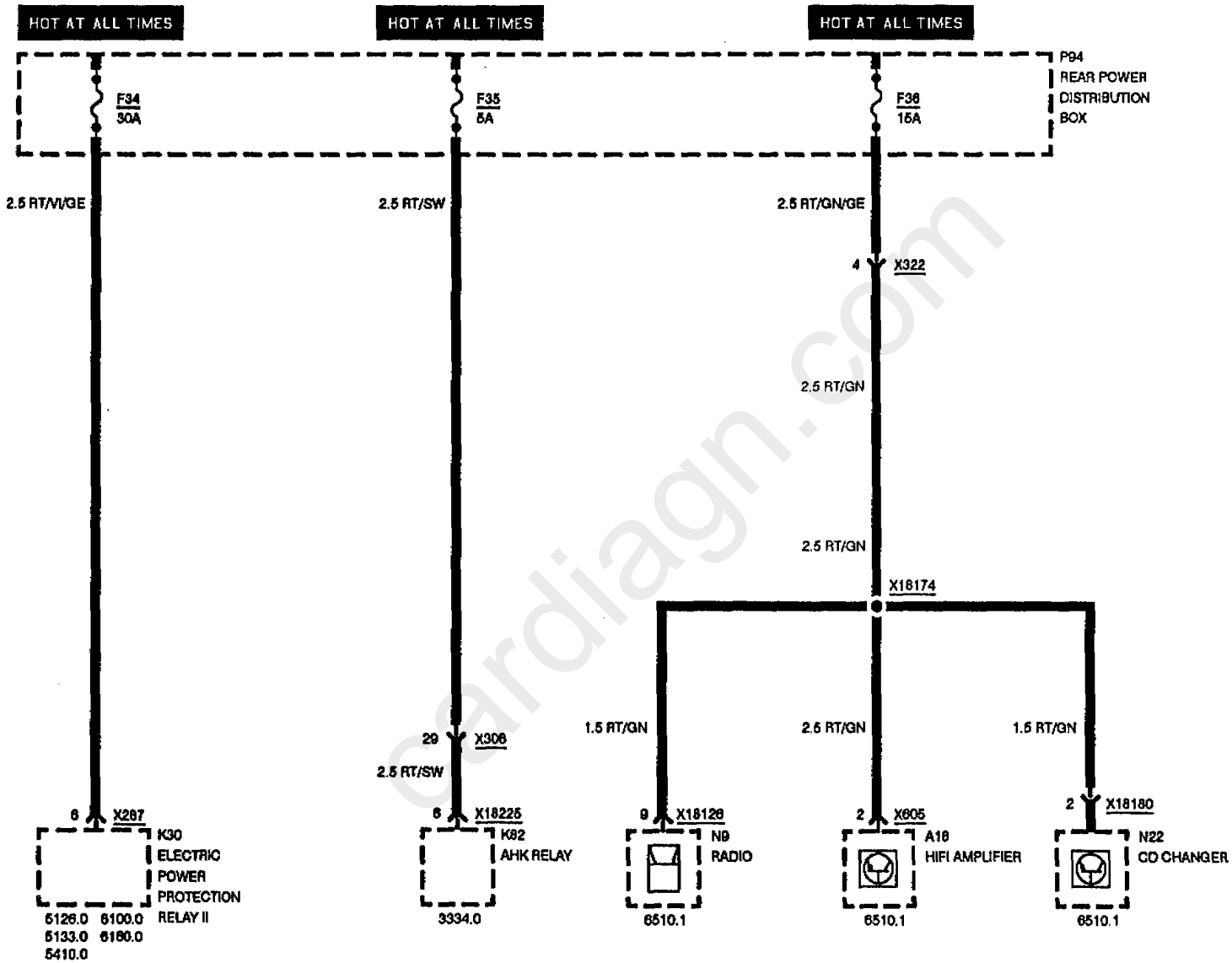
FUSE 33



cardiagn.com

FUSE DETAILS

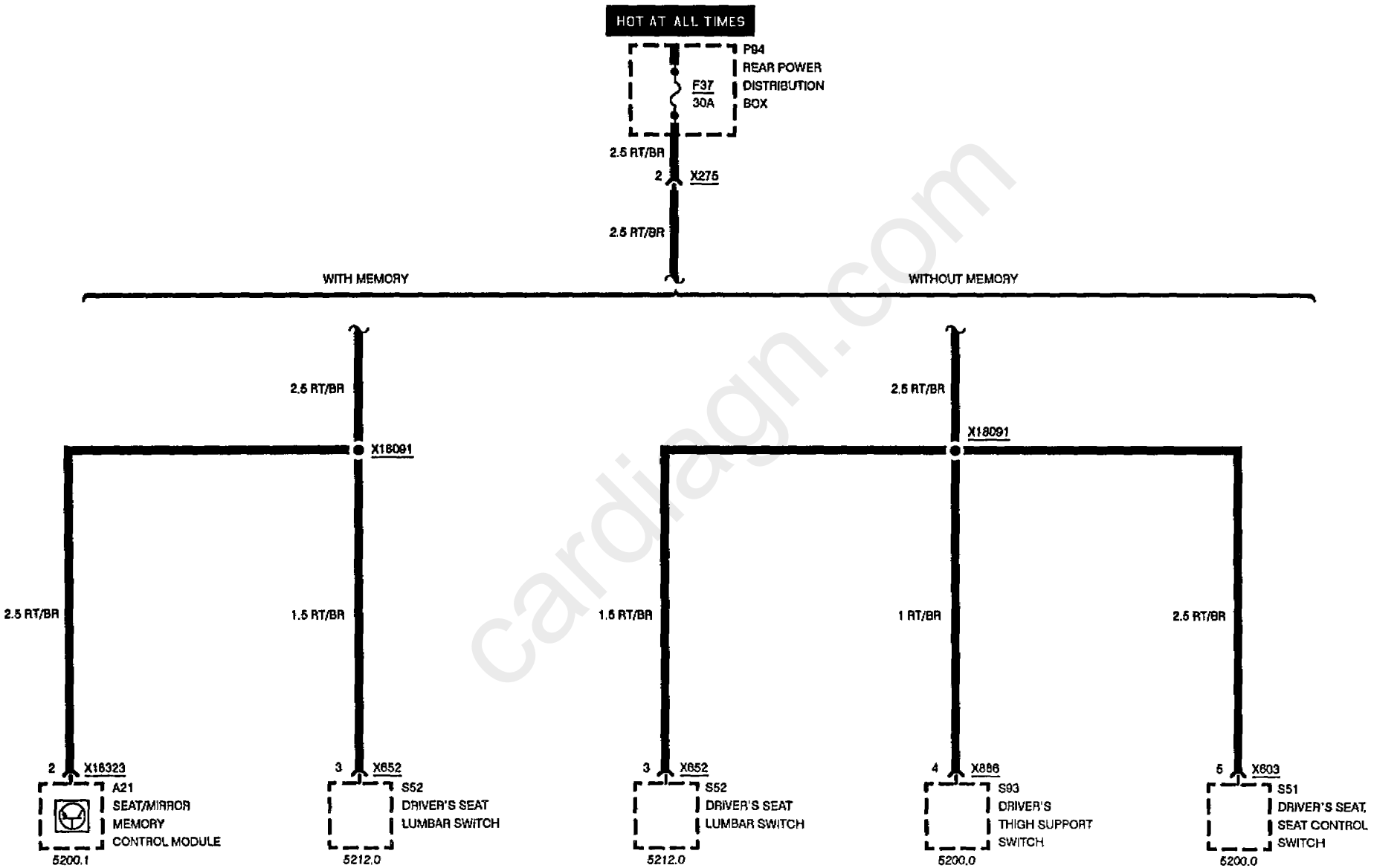
FUSES 34, 35, AND 36



cardiagn.com

FUSE DETAILS

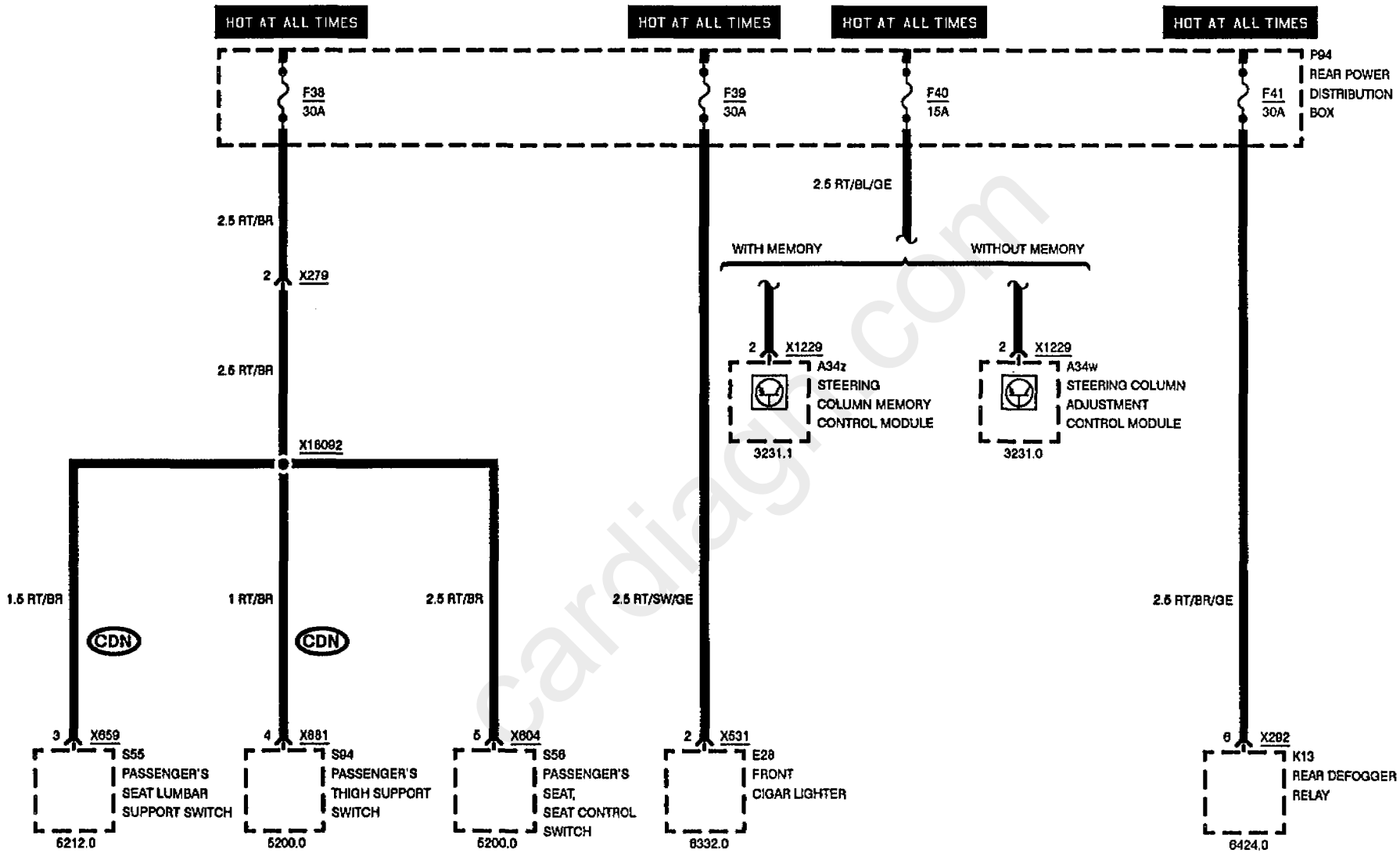
FUSE 37



cardiagn.com

FUSE DETAILS

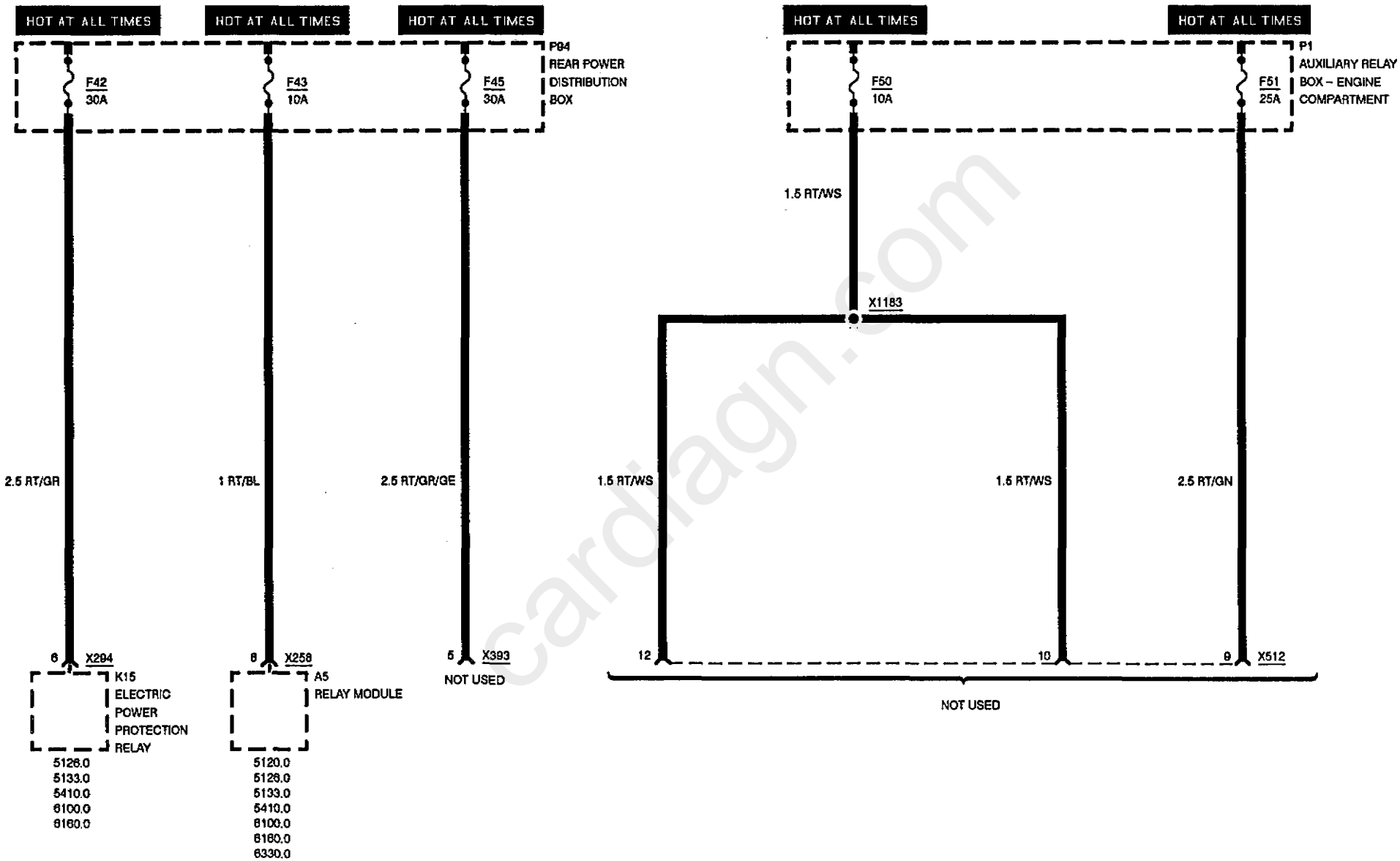
FUSES 38, 39, 40, AND 41



cardiagn.com

FUSE DETAILS

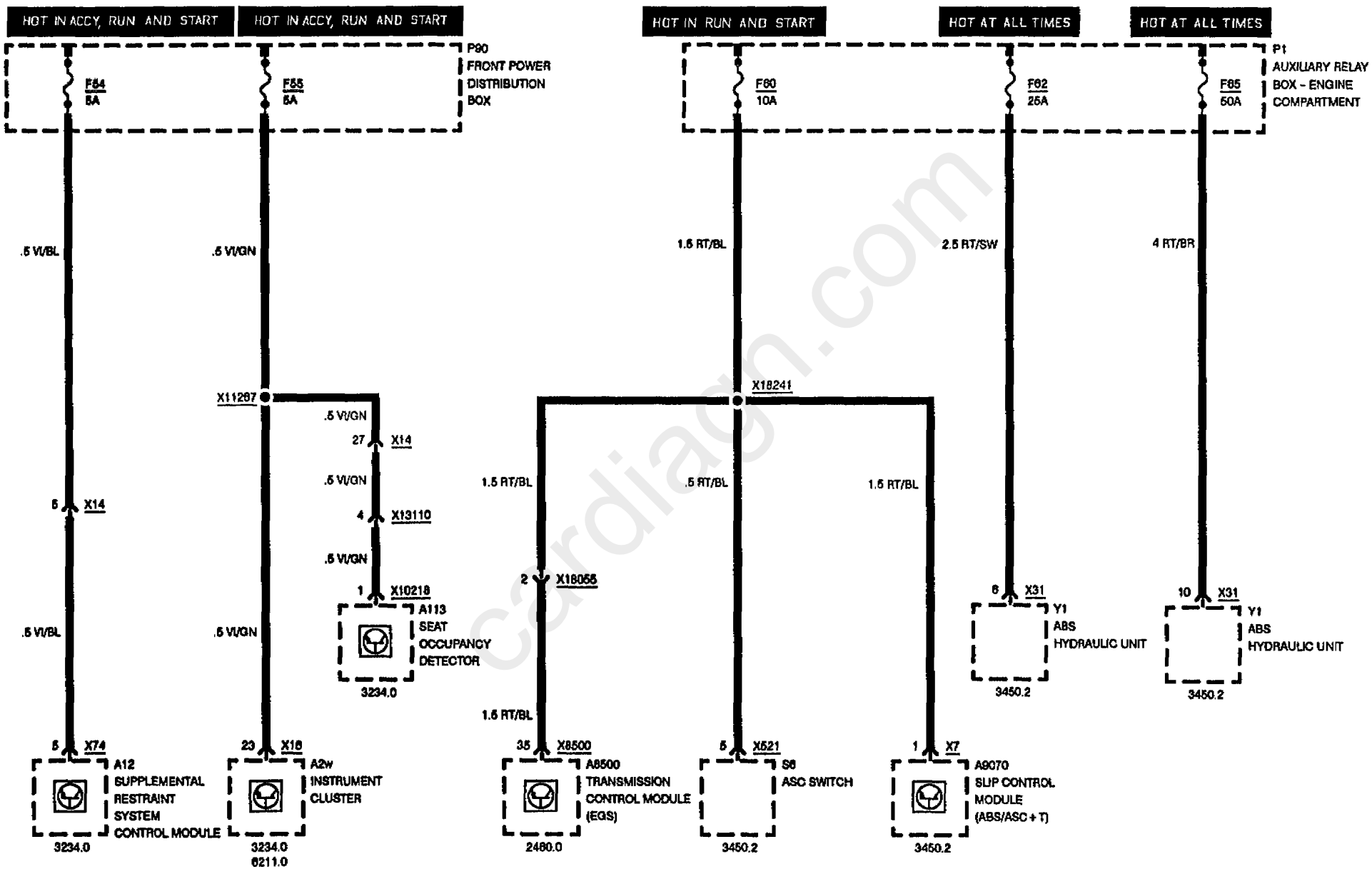
FUSES 42, 43, 45, 50, AND 51



cardiagn.com

FUSE DETAILS

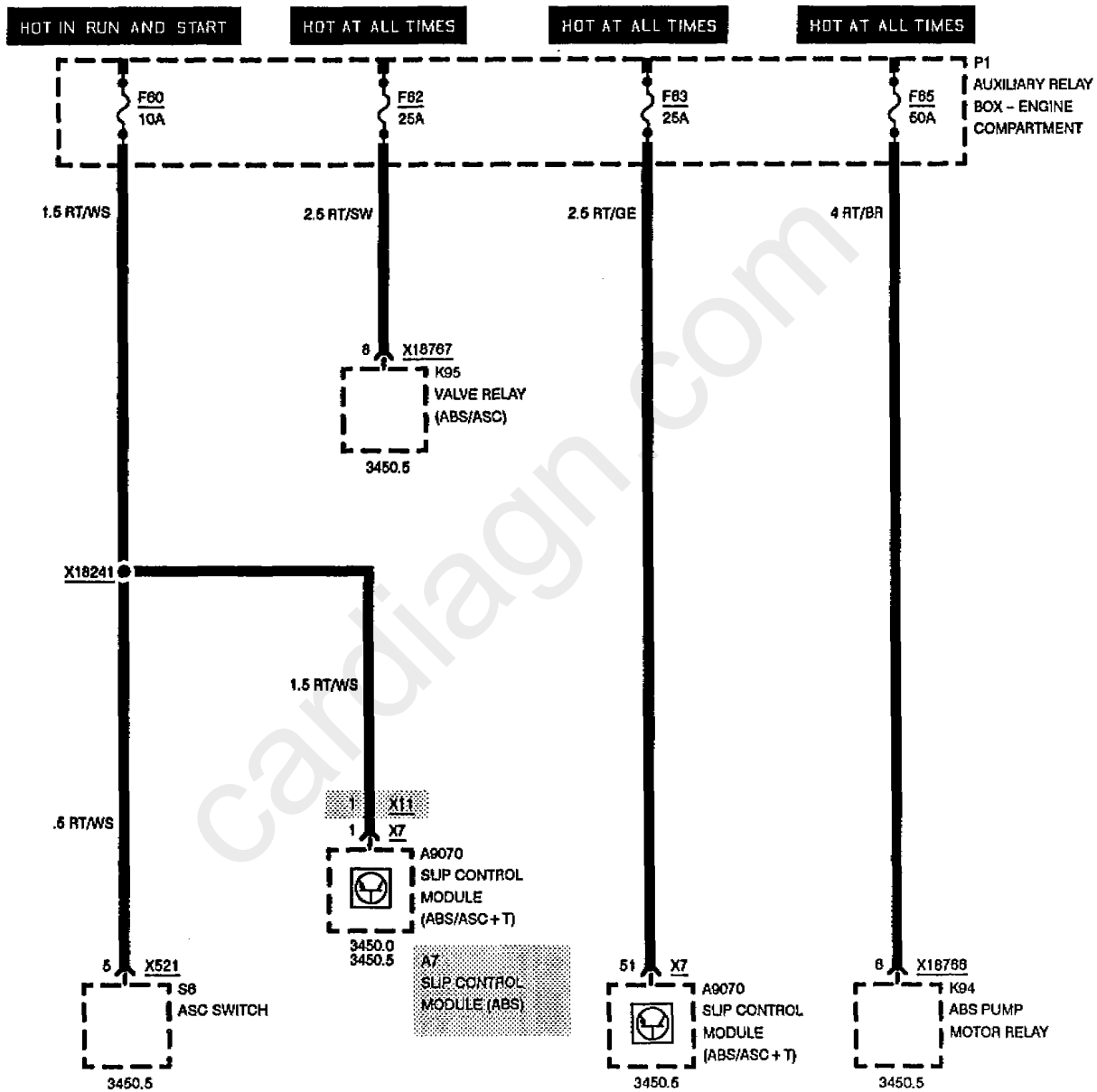
FUSES 54, 55, 60, 62, AND 65



cardiagn.com

FUSE DETAILS

FUSES 60, 62, 63, AND 65

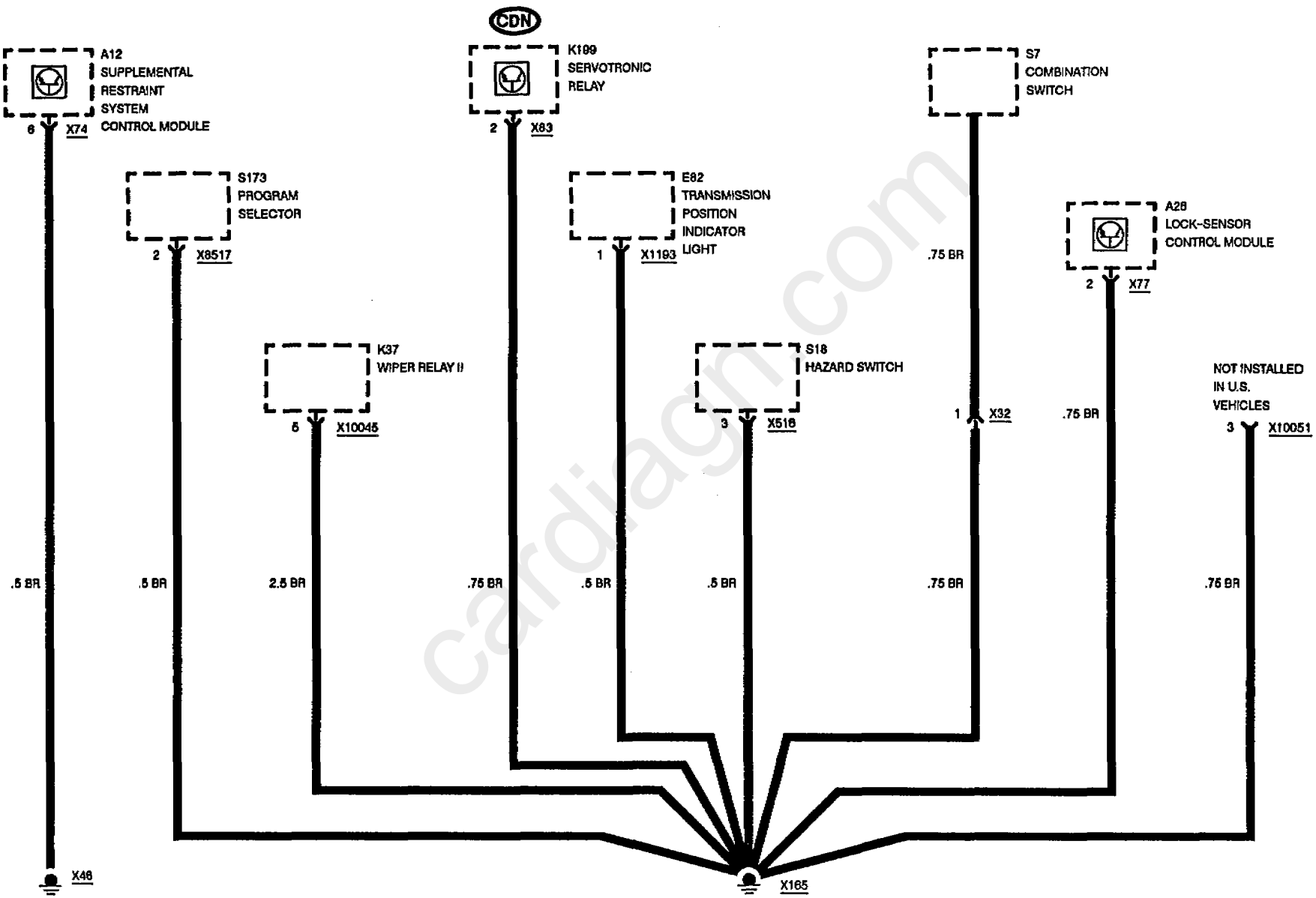


cardiagn.com

carldiagn.com

GROUND DISTRIBUTION

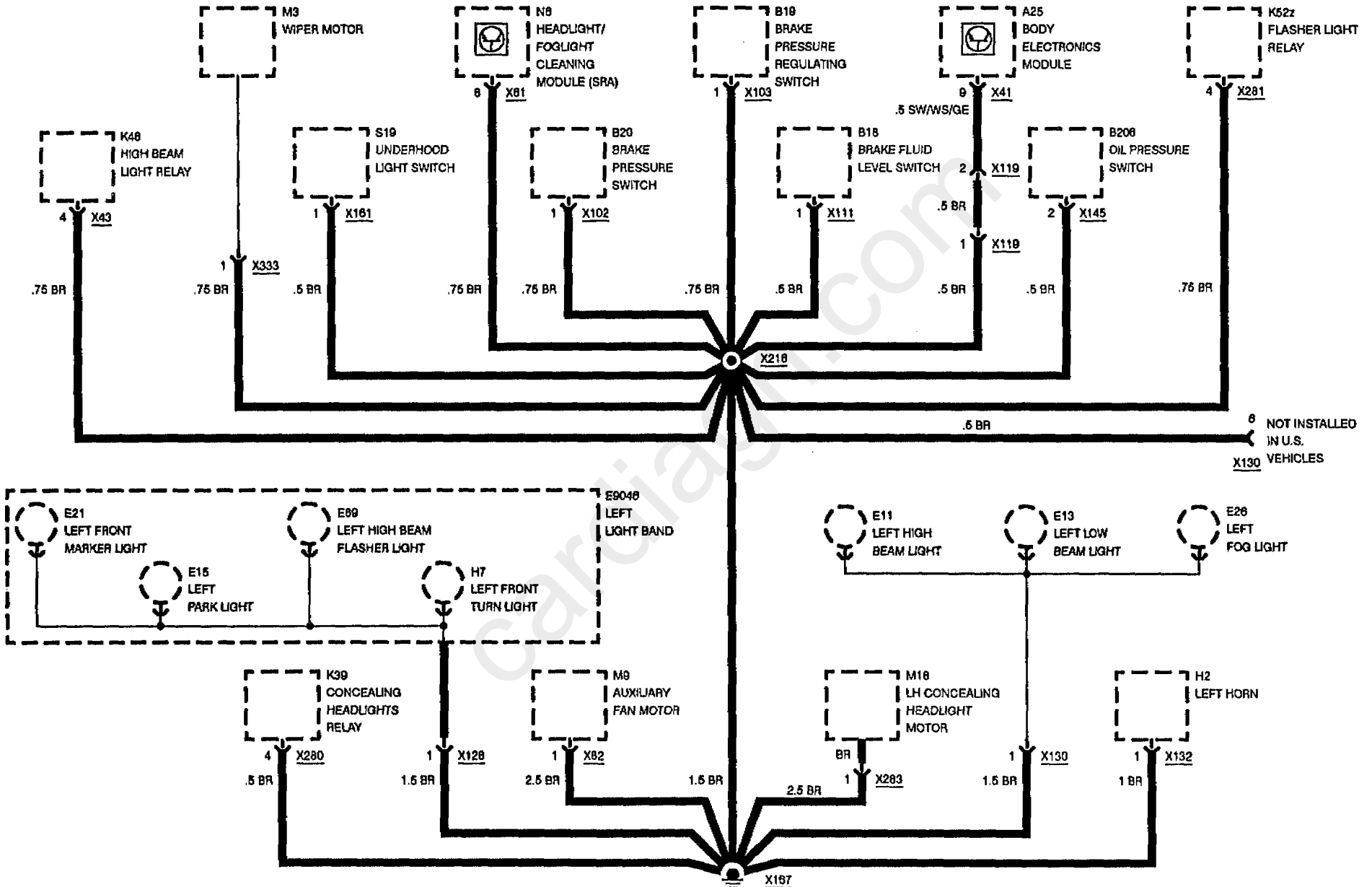
GROUNDS X46 AND X165



cardiagn.com

GROUND DISTRIBUTION

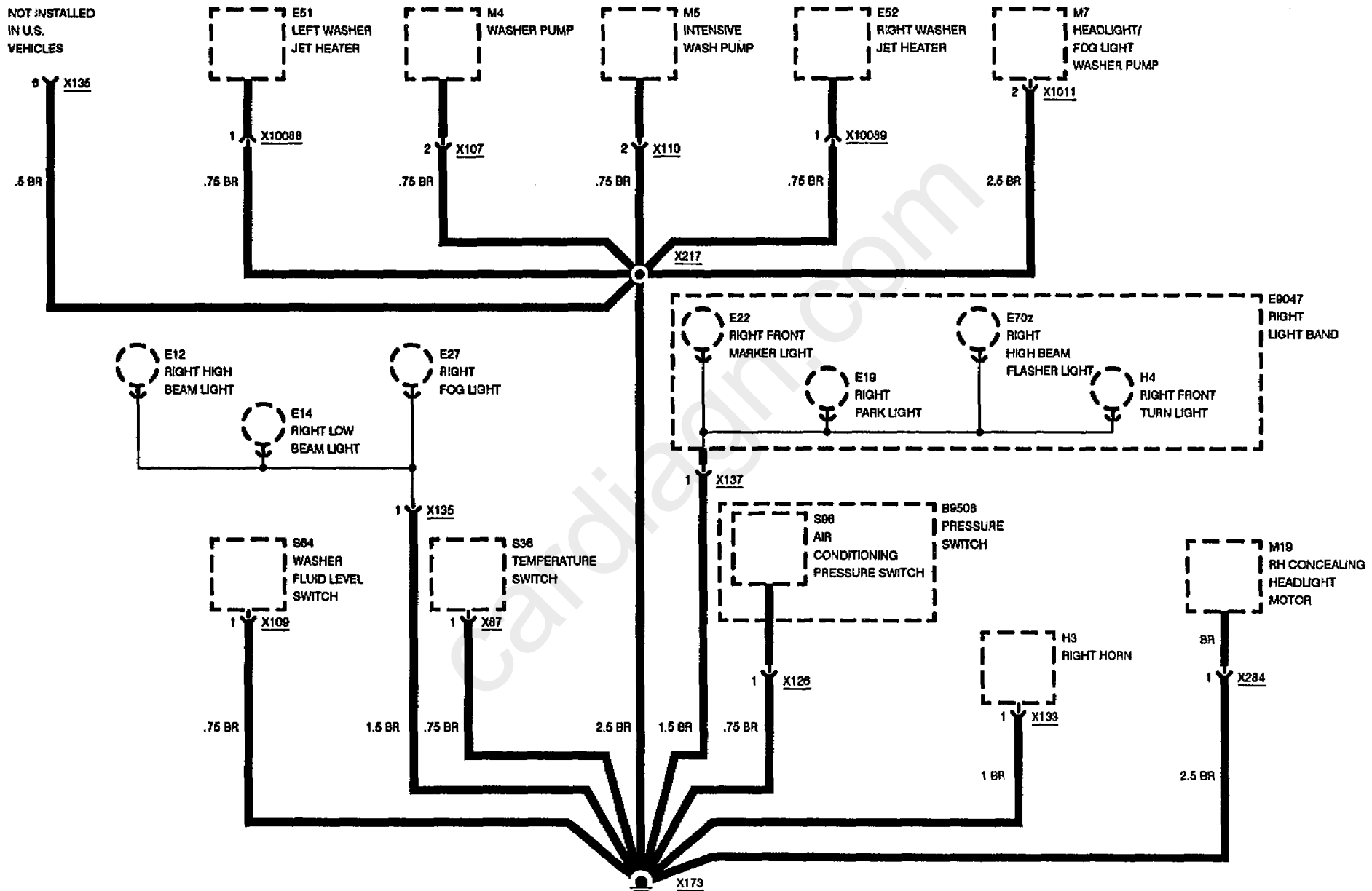
GROUND X167



cardiagn.com

GROUND DISTRIBUTION

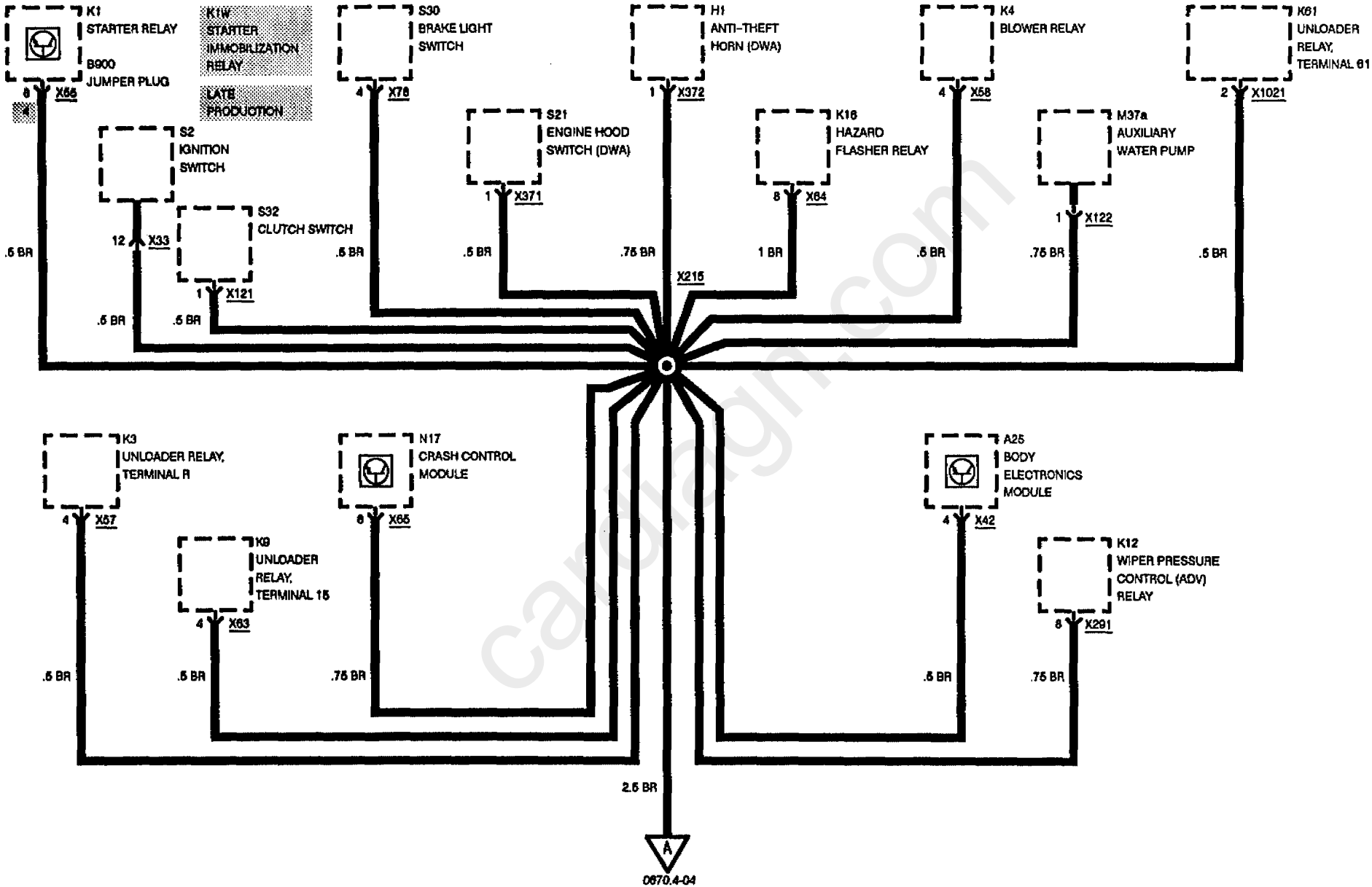
GROUND X173



cardiagn.com

GROUND DISTRIBUTION

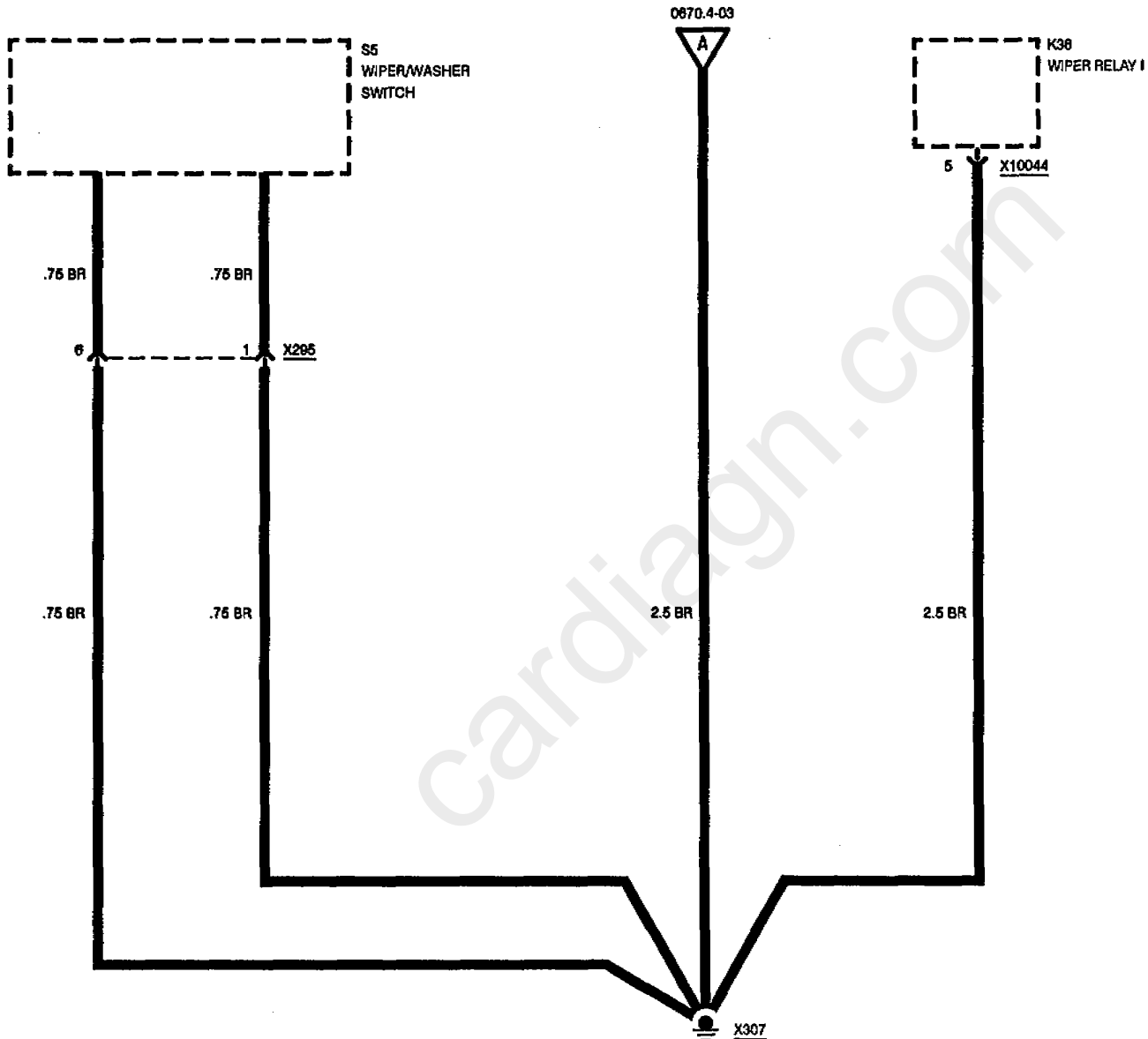
GROUND X307



carlagn.com

GROUND DISTRIBUTION

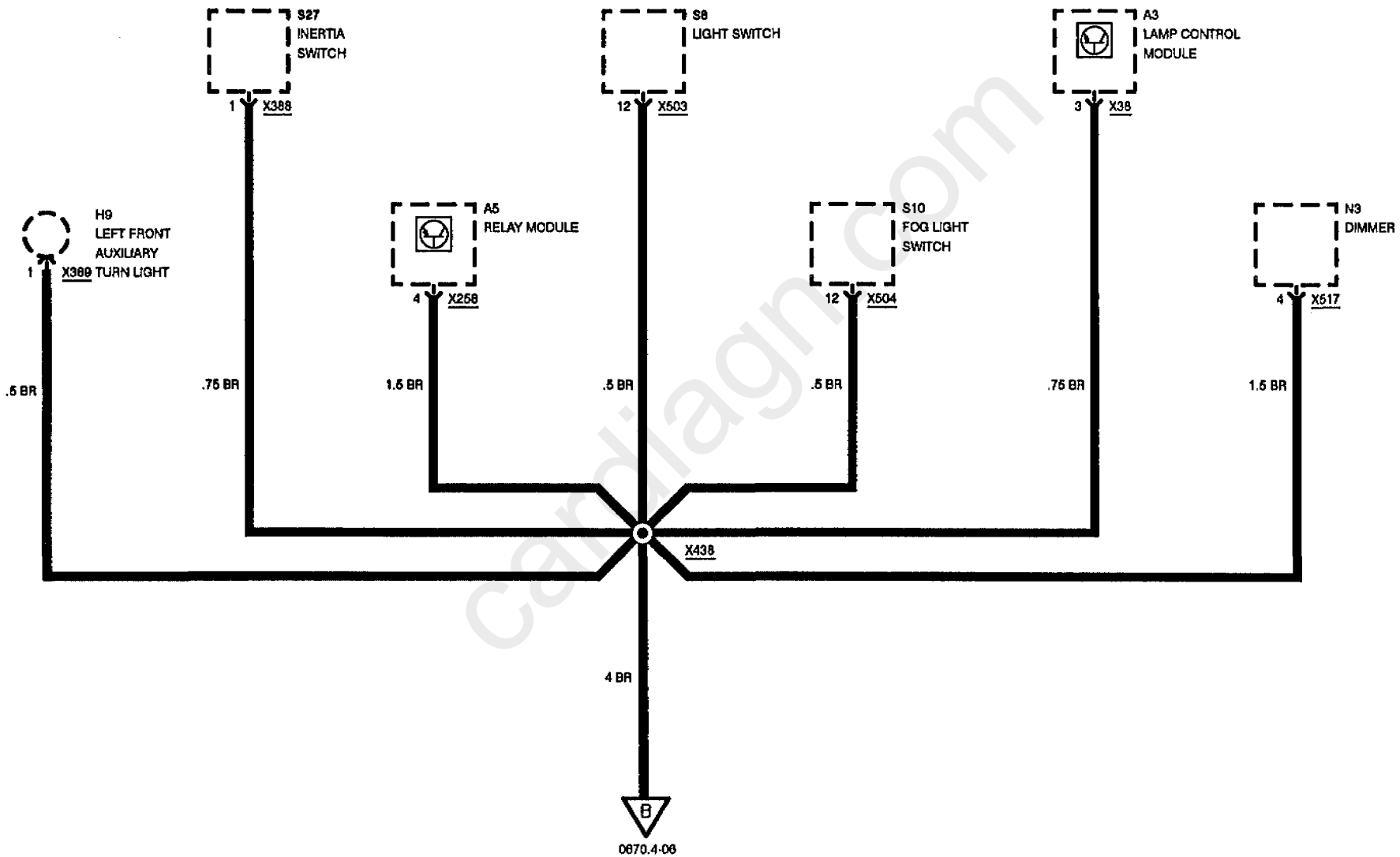
GROUND X307



cardiagn.com

GROUND DISTRIBUTION

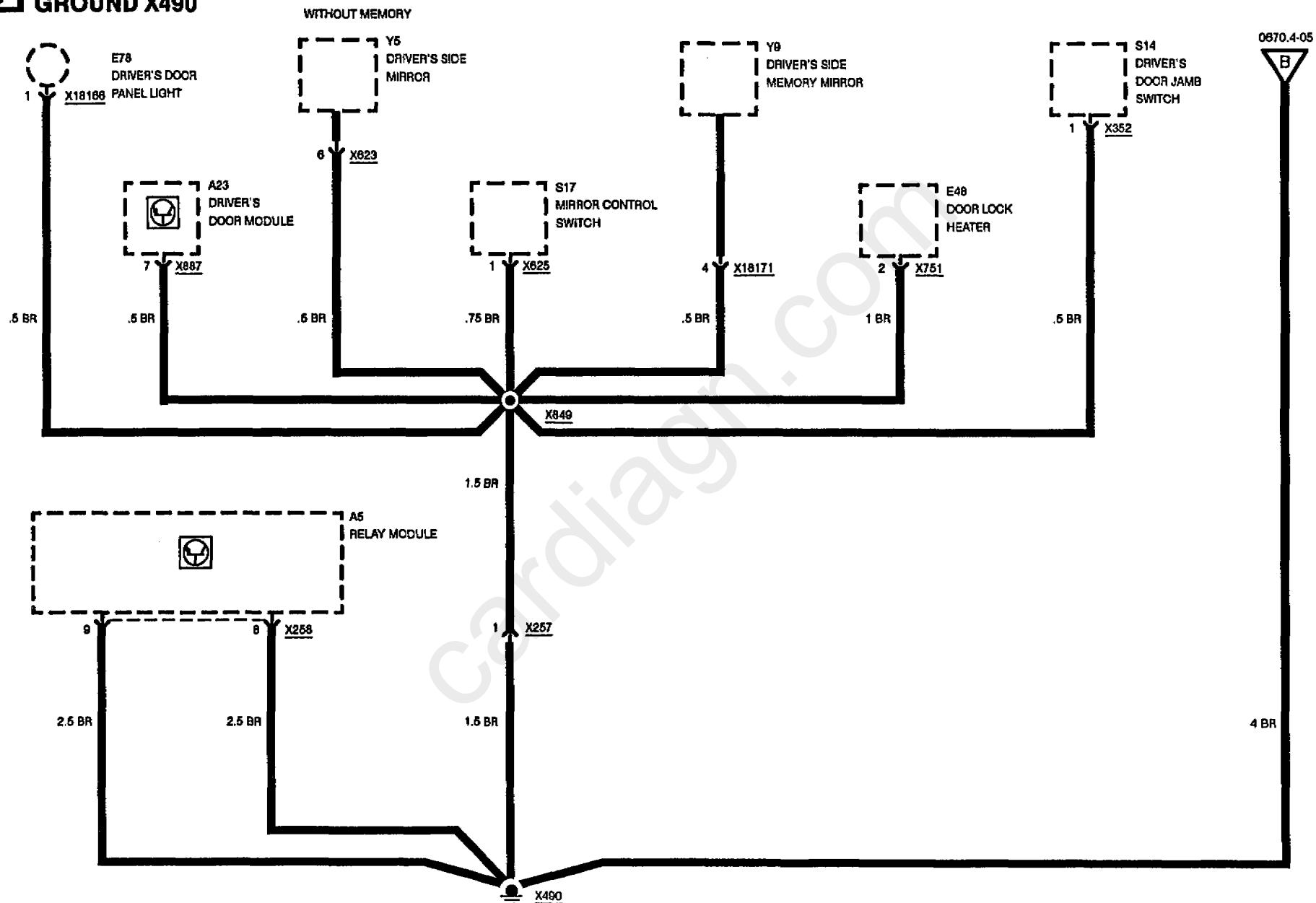
GROUND X490



cardiagn.com

GROUND DISTRIBUTION

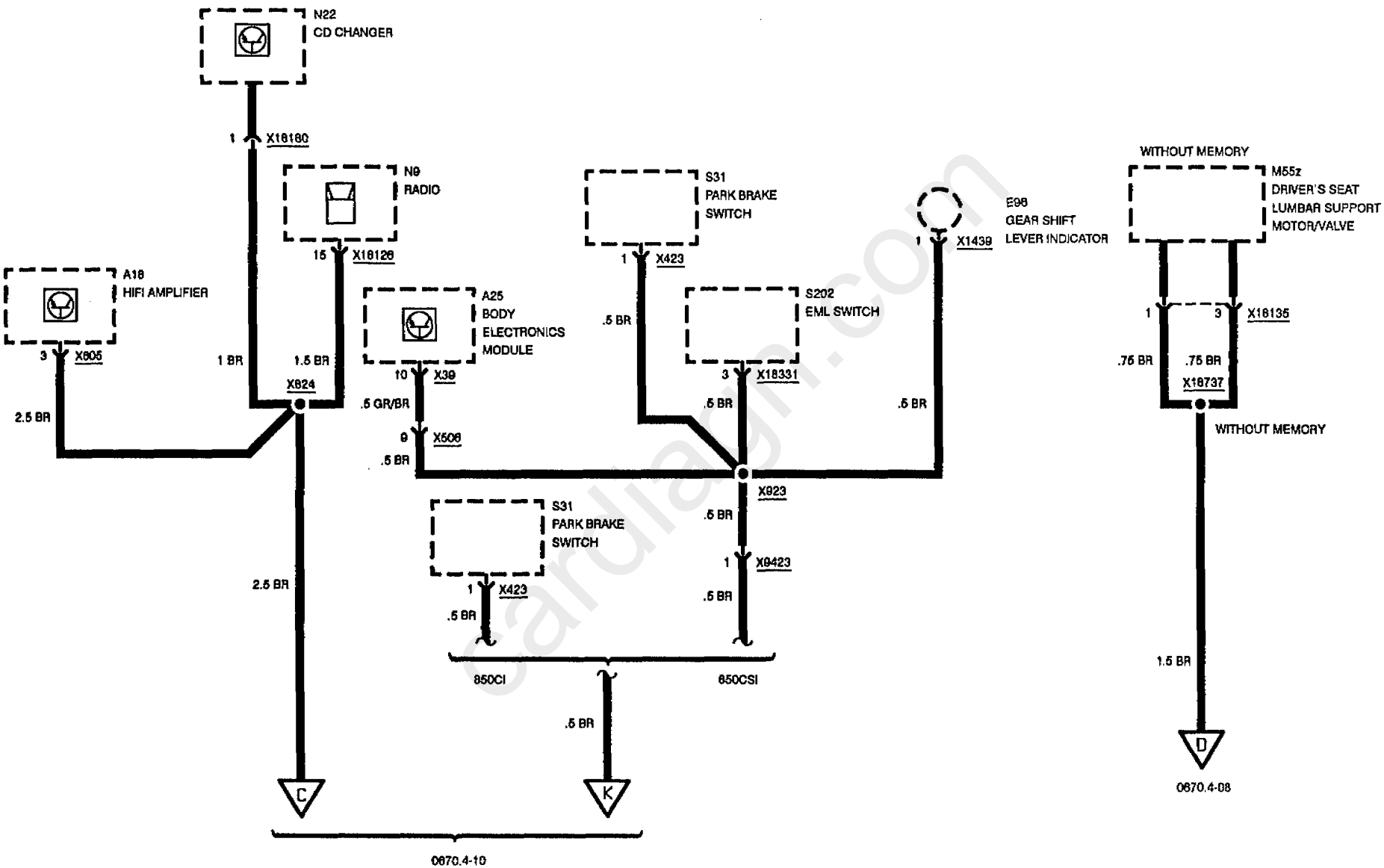
GROUND X490



cardiagn.com

GROUND DISTRIBUTION

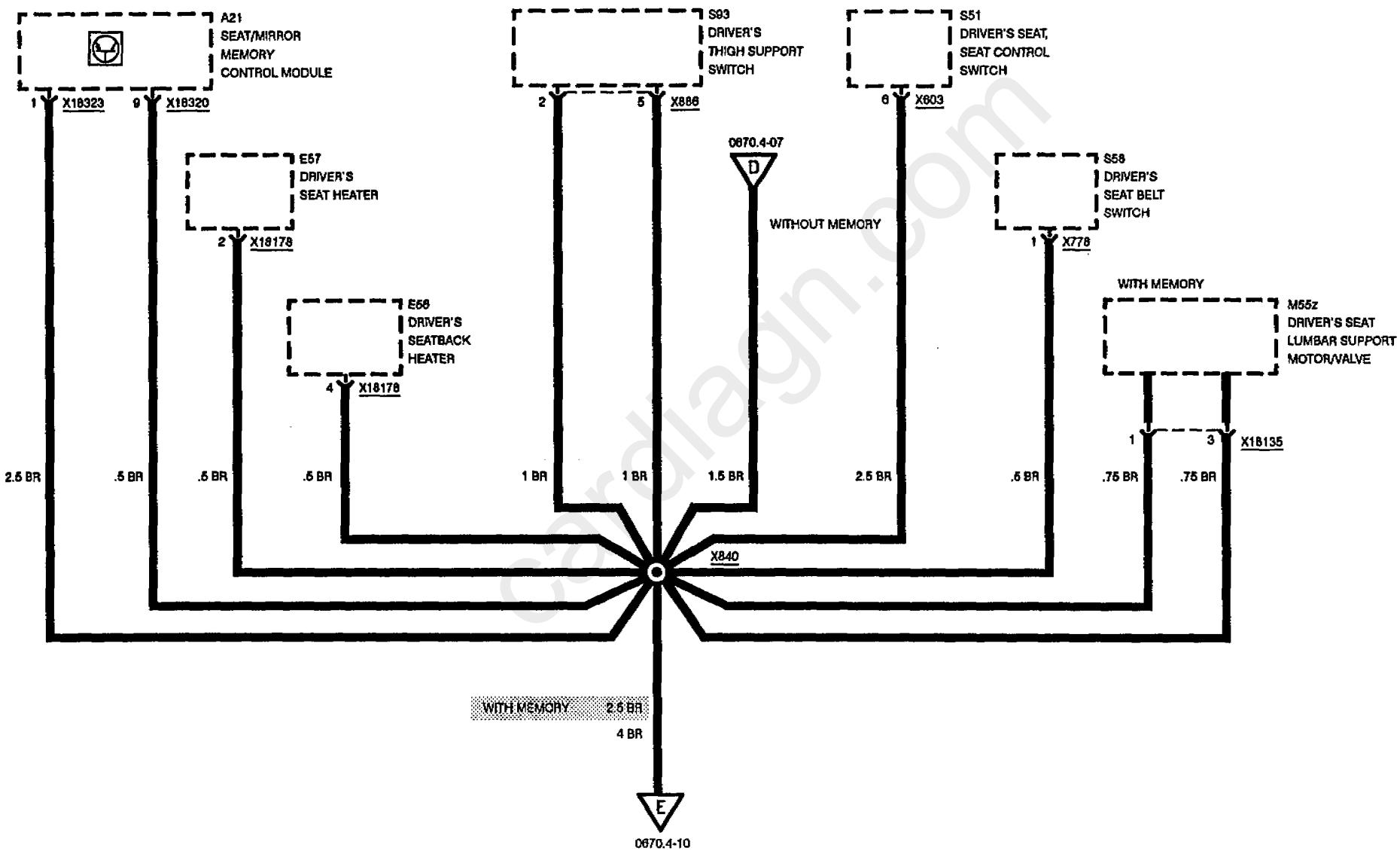
GROUND X492



cardiagn.com

GROUND DISTRIBUTION

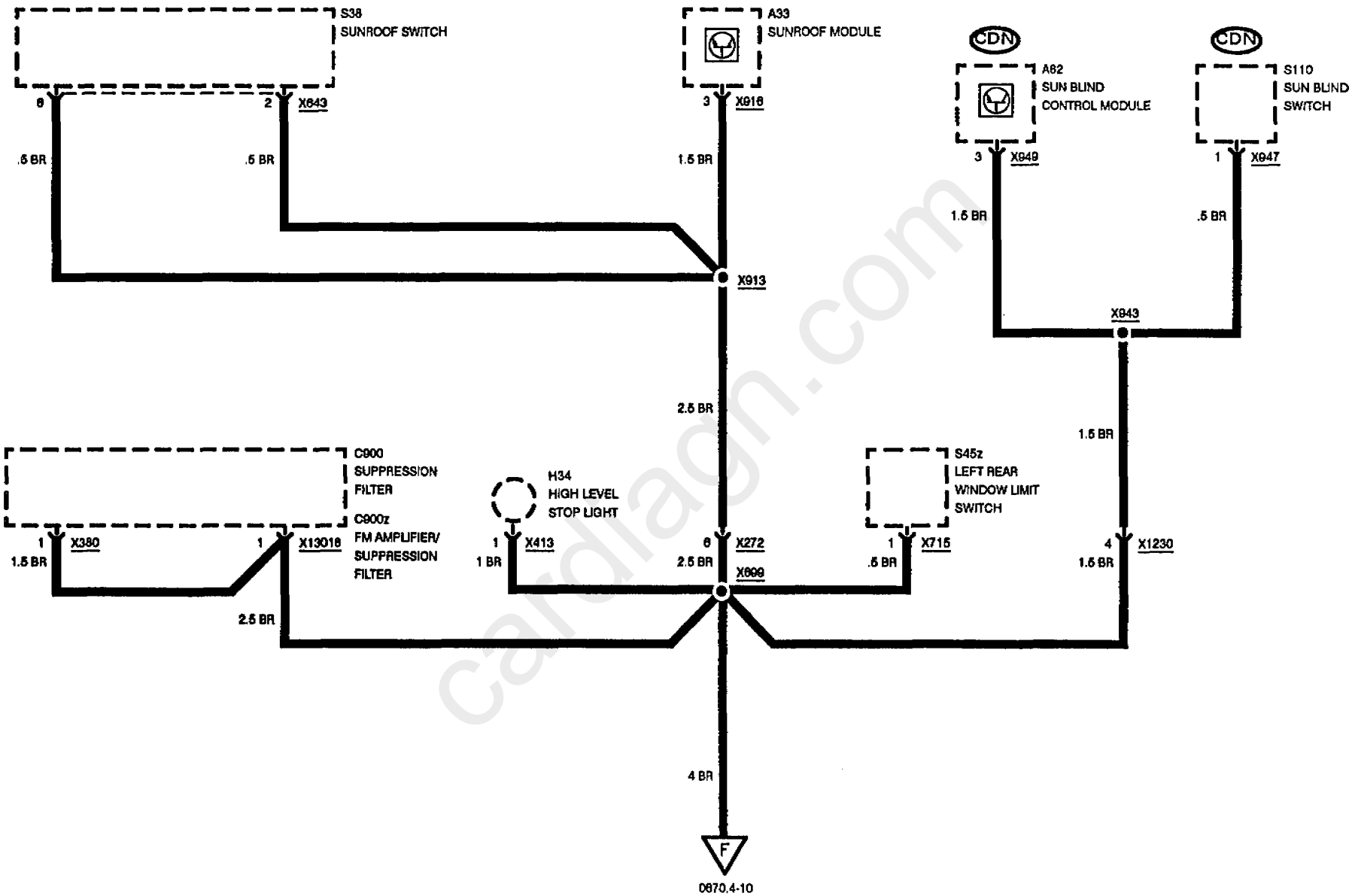
GROUND X492



cardiagn.com

GROUND DISTRIBUTION

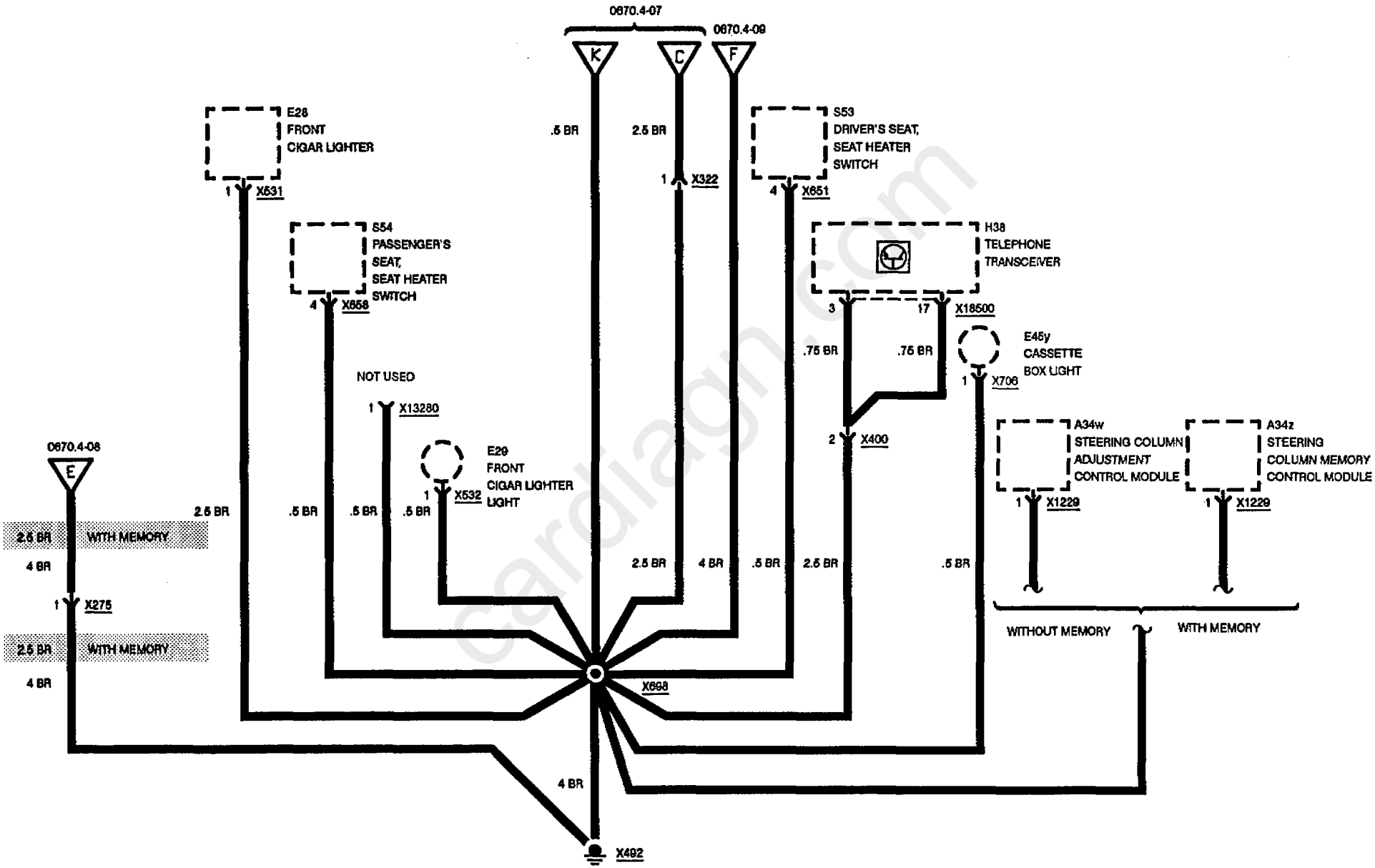
GROUND X492



cardiagn.com

GROUND DISTRIBUTION

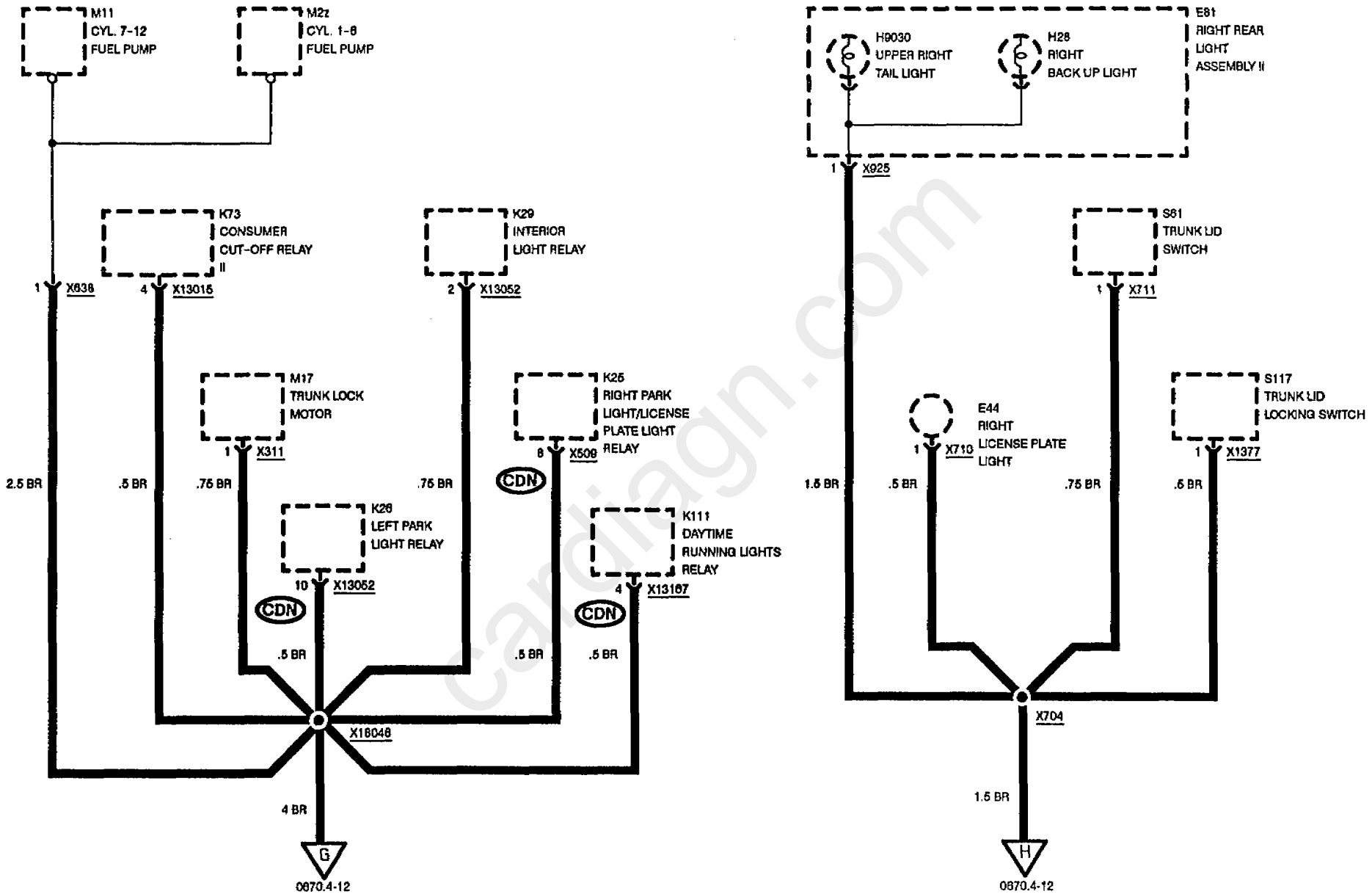
GROUND X492



cardiagn.com

GROUND DISTRIBUTION

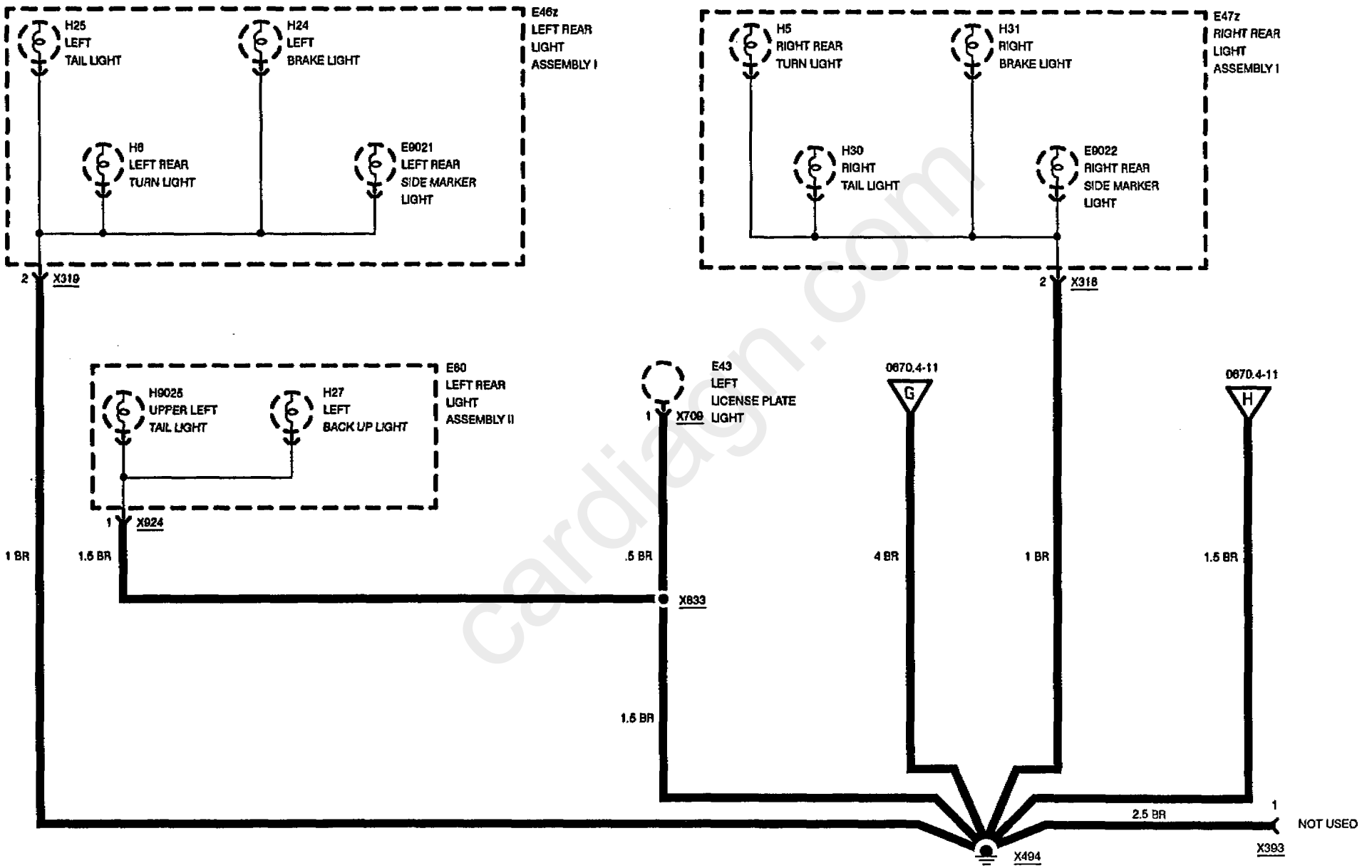
GROUND X494



cardiagn.com

GROUND DISTRIBUTION

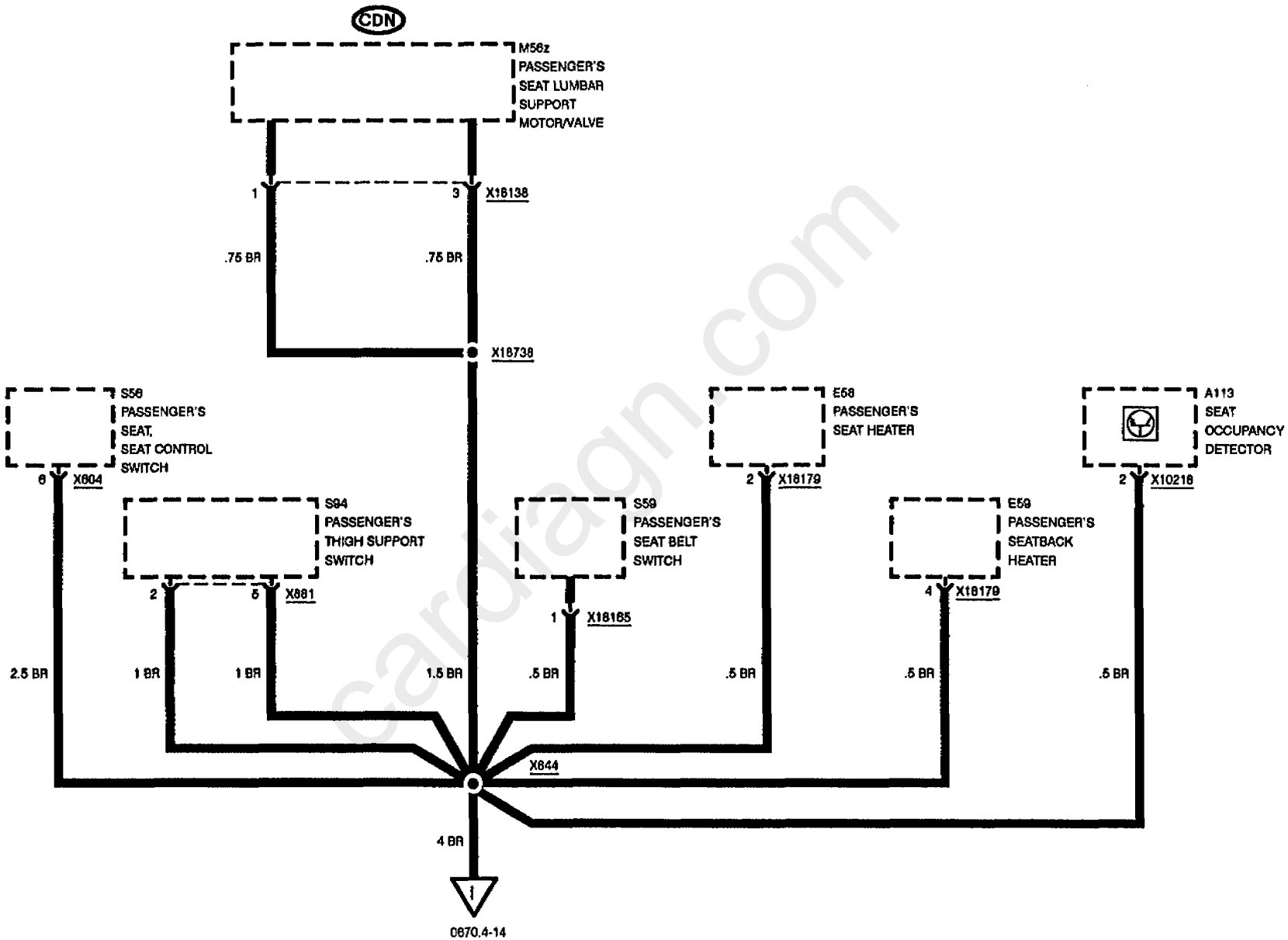
GROUND X494



cardiagn.com

GROUND DISTRIBUTION

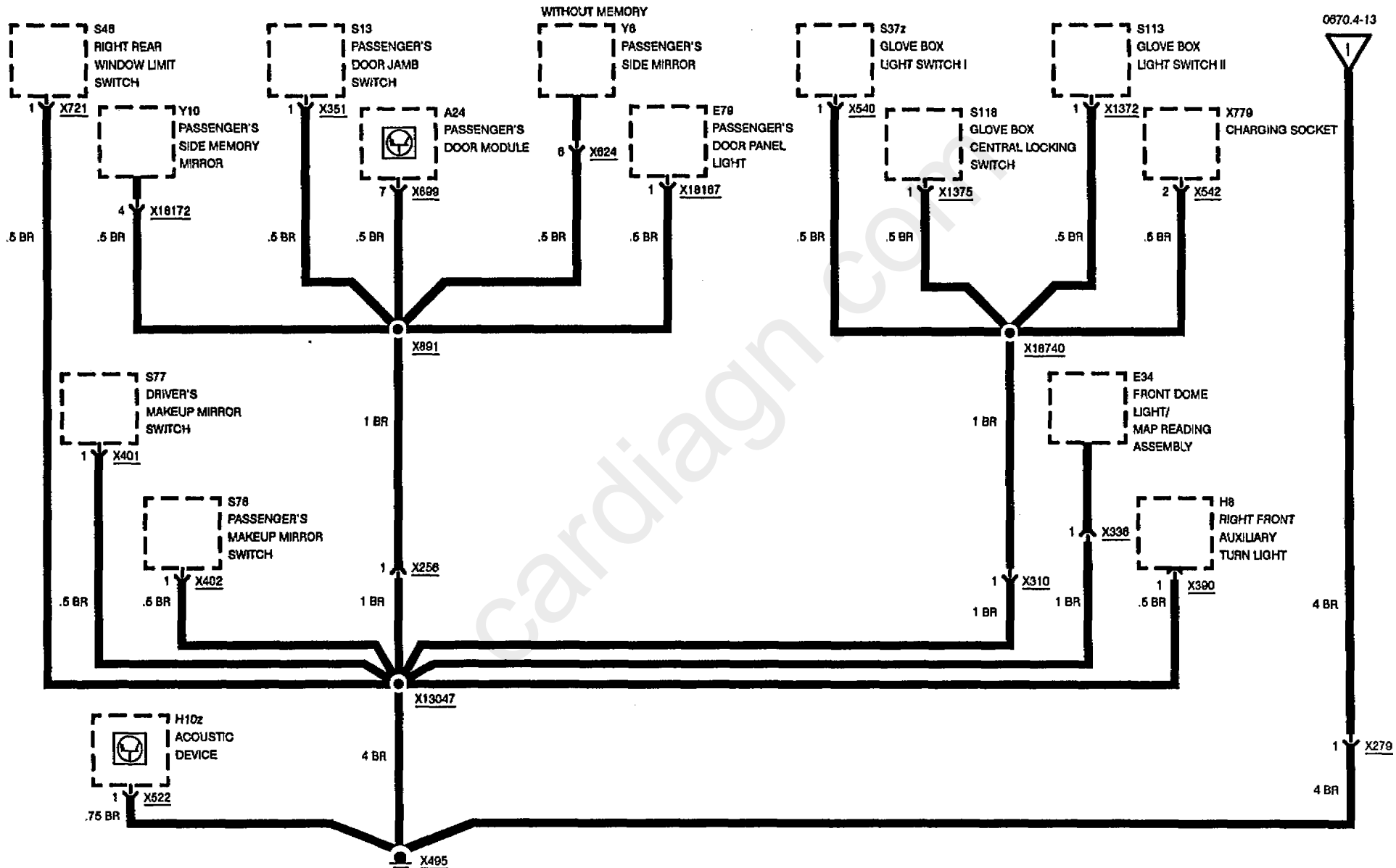
GROUND X495



cardiagn.com

GROUND DISTRIBUTION

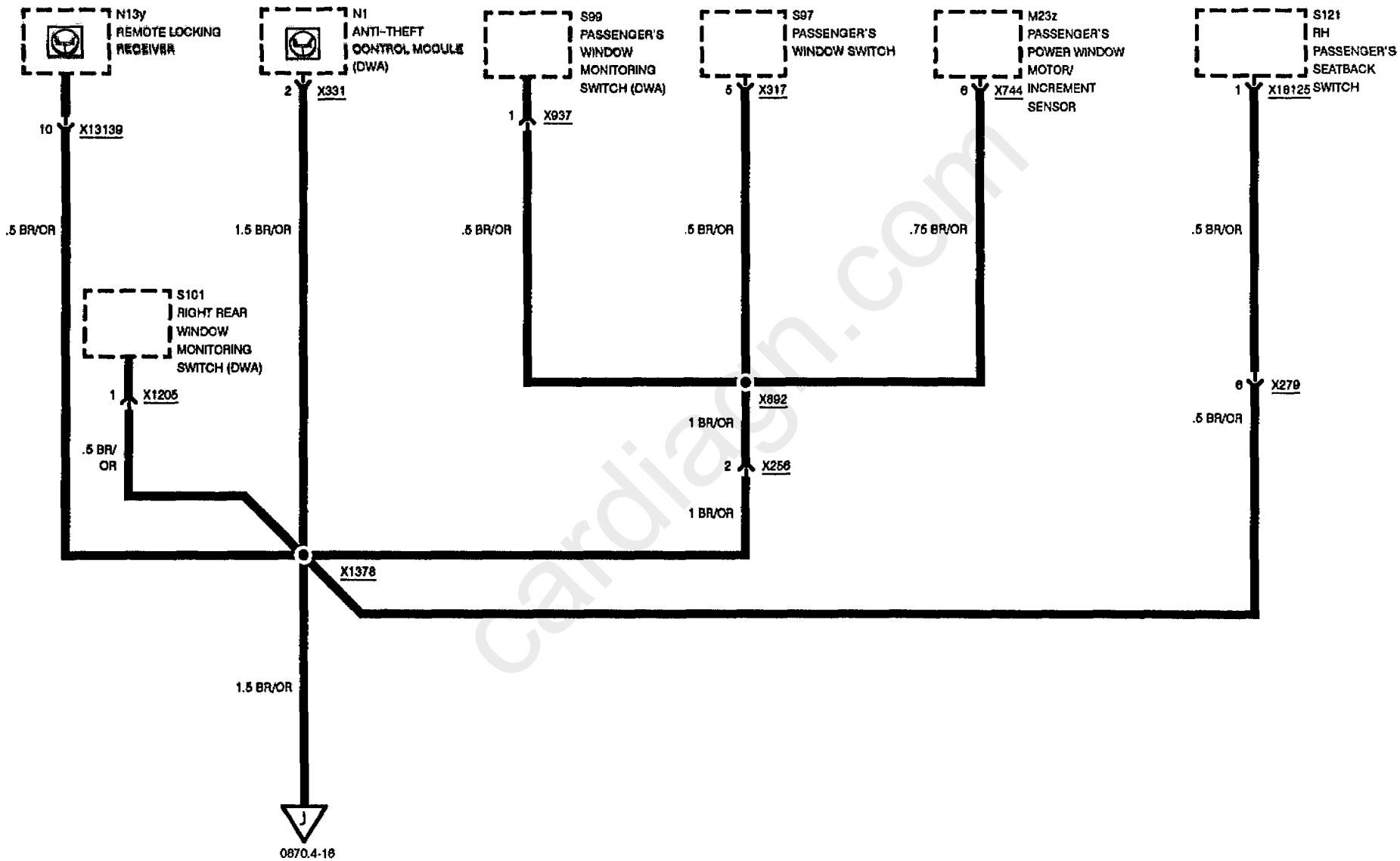
GROUND X495



cardiagn.com

GROUND DISTRIBUTION

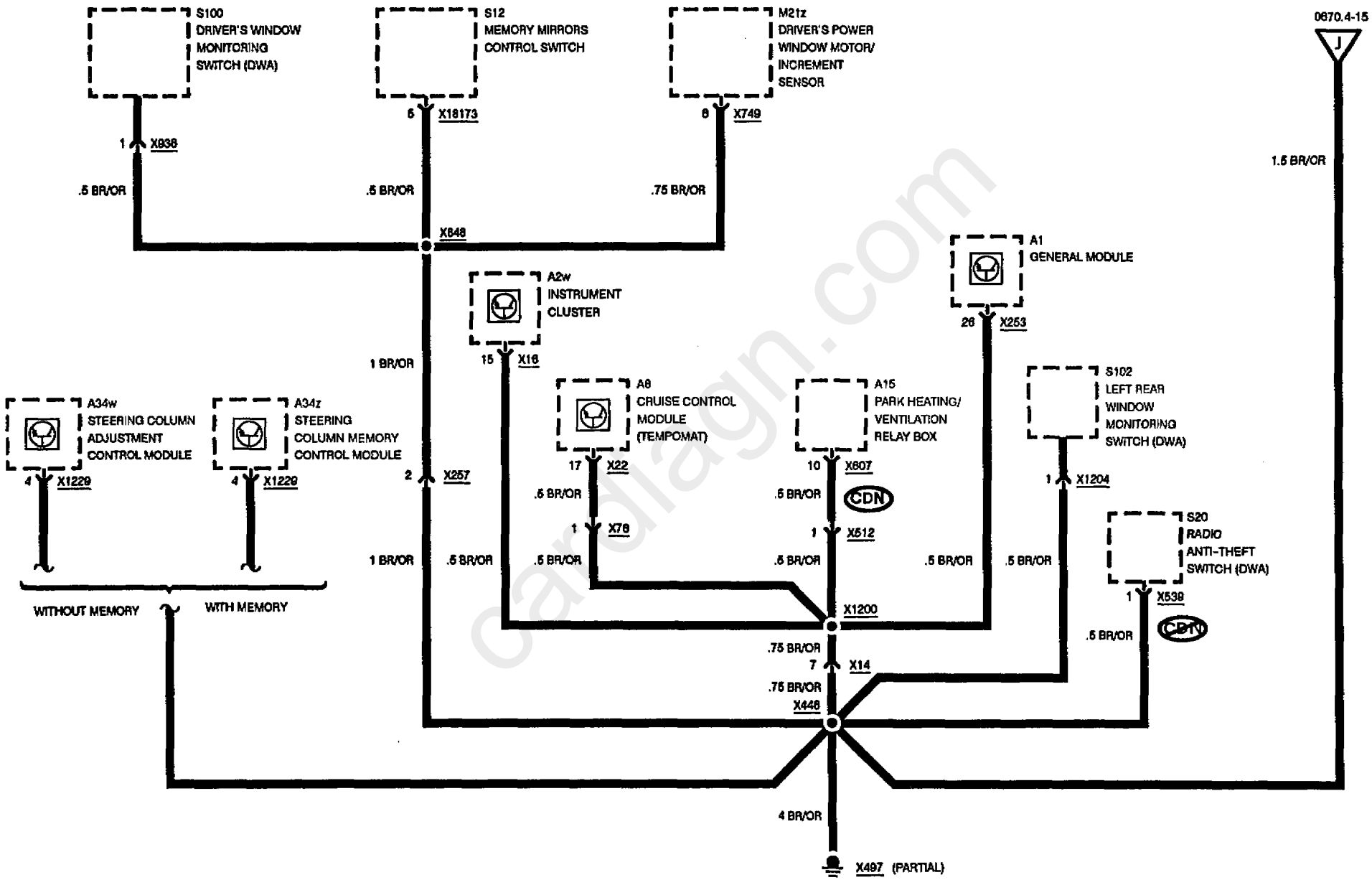
GROUND X497



cardiagn.com

GROUND DISTRIBUTION

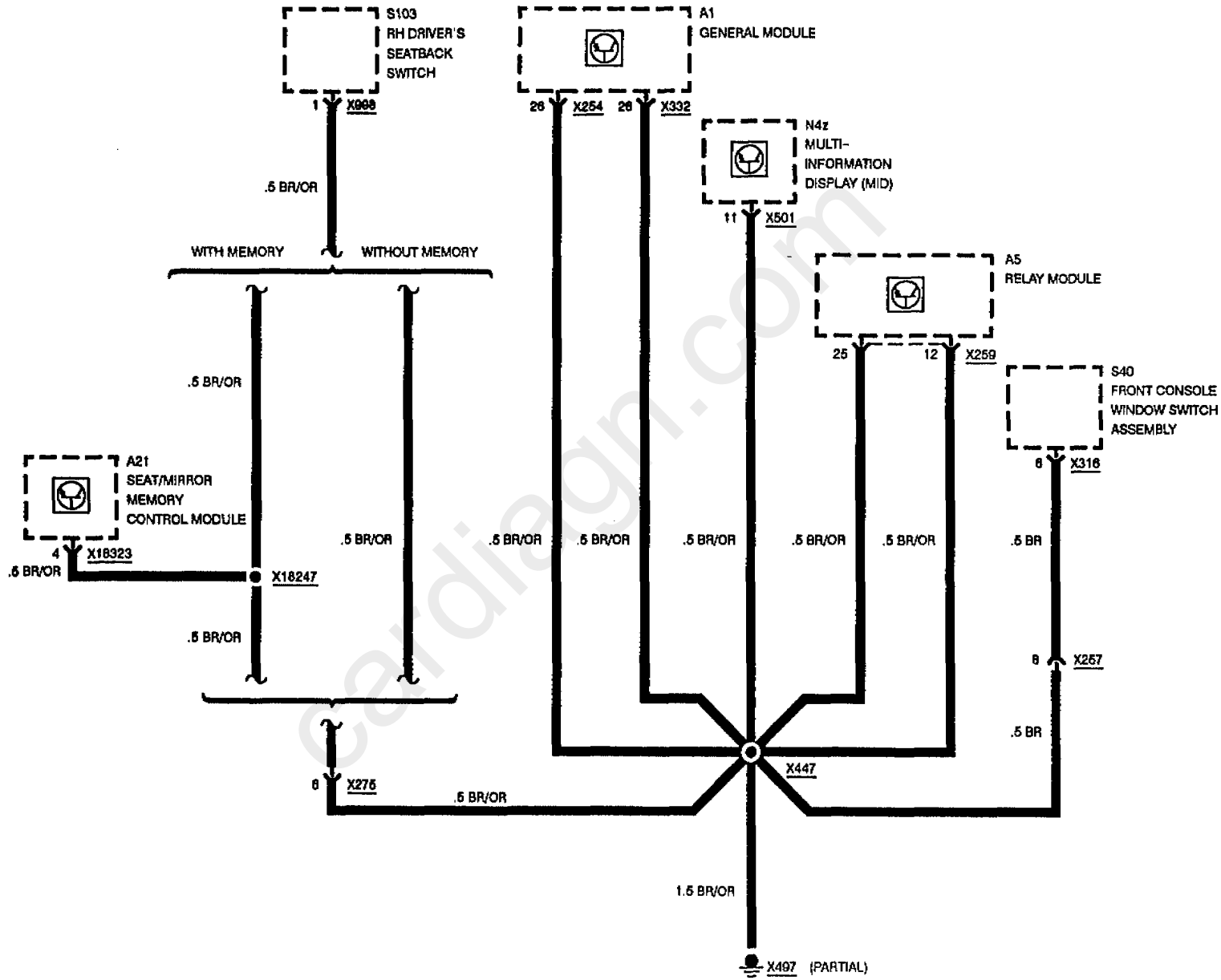
GROUND X497



cardiagn.com

GROUND DISTRIBUTION

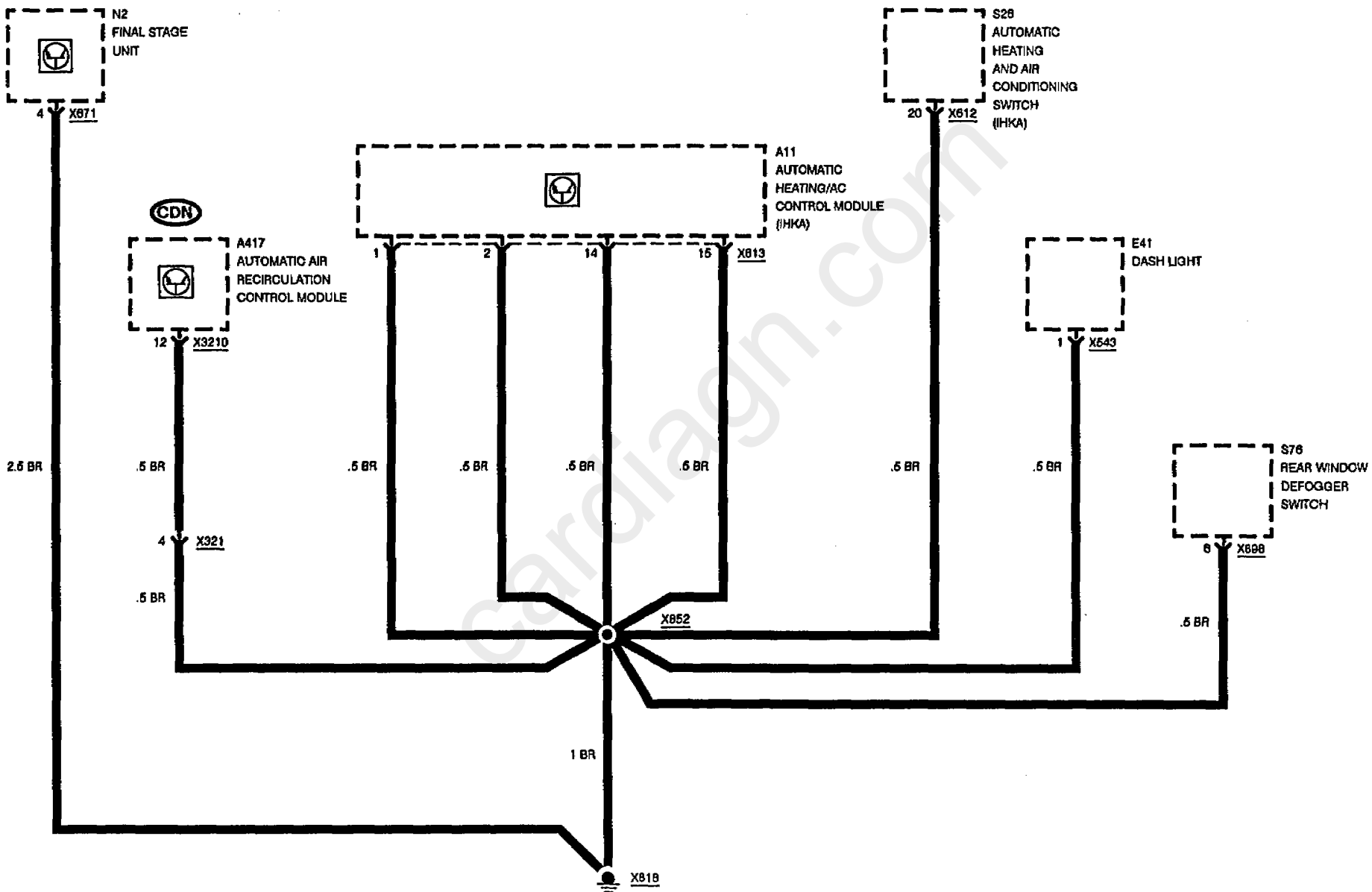
GROUND X497



cardiagn.com

GROUND DISTRIBUTION

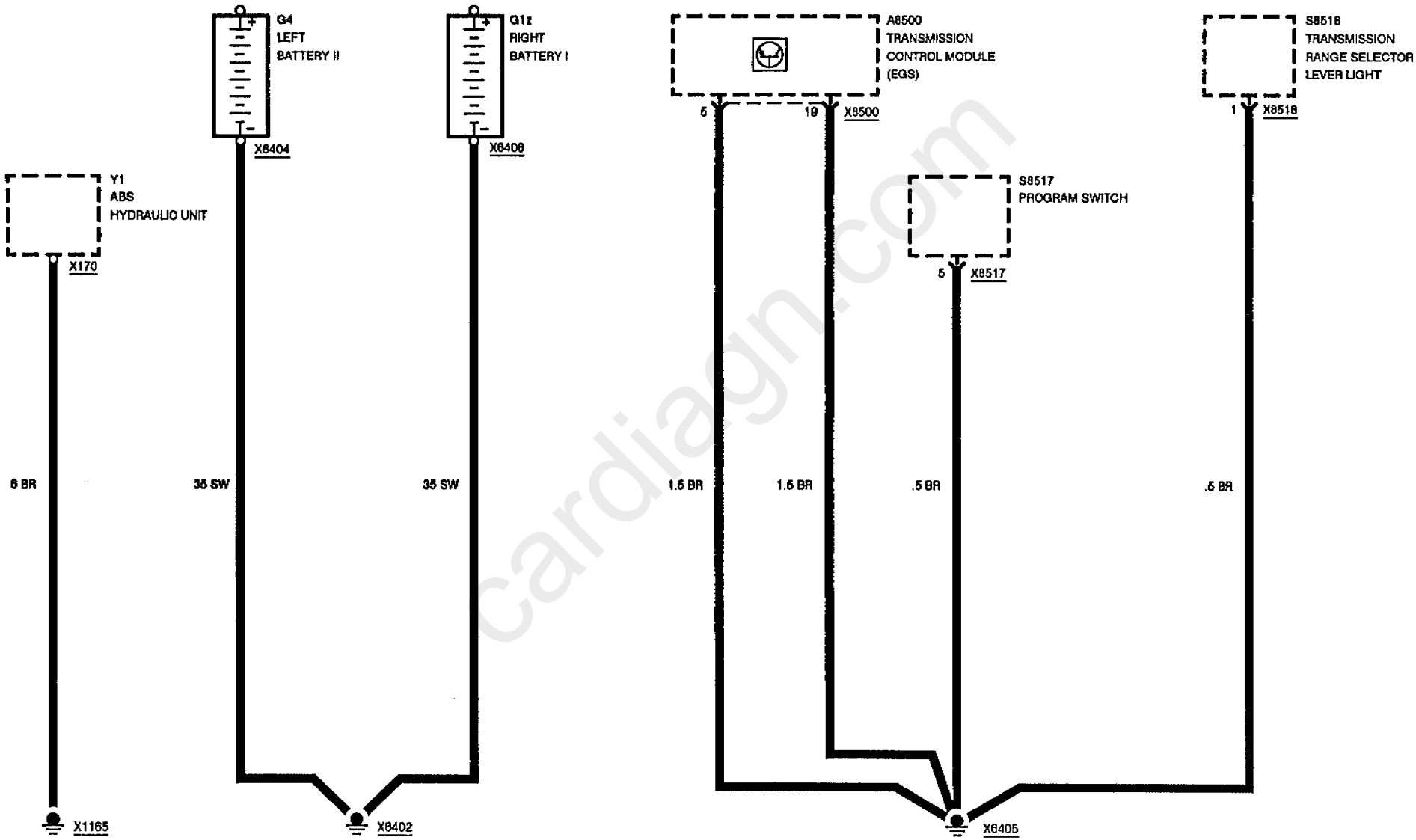
GROUND X818



cardiagn.com

GROUND DISTRIBUTION

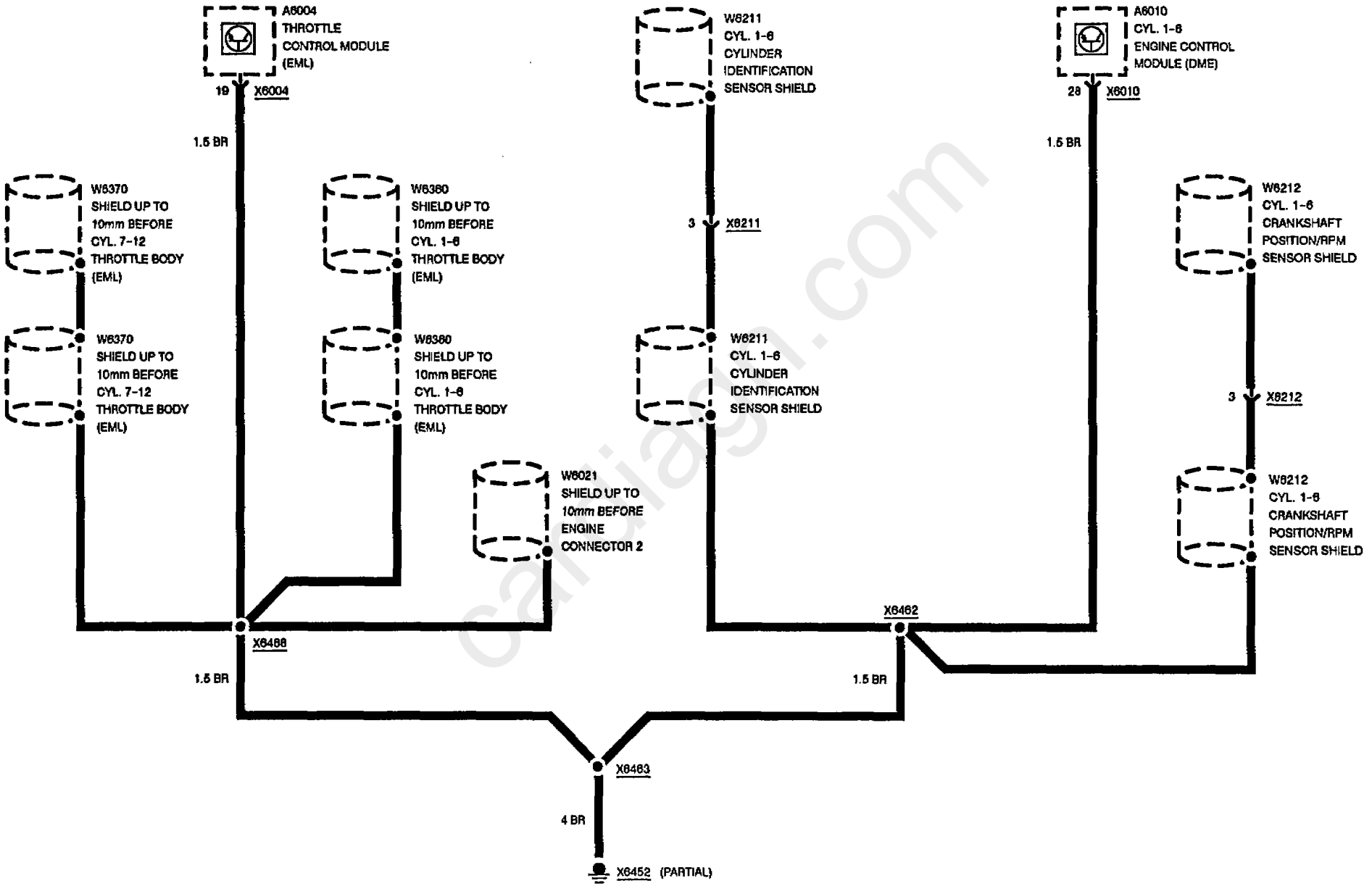
GROUNDS X1165, X6402, AND X6405



cardiagn.com

GROUND DISTRIBUTION

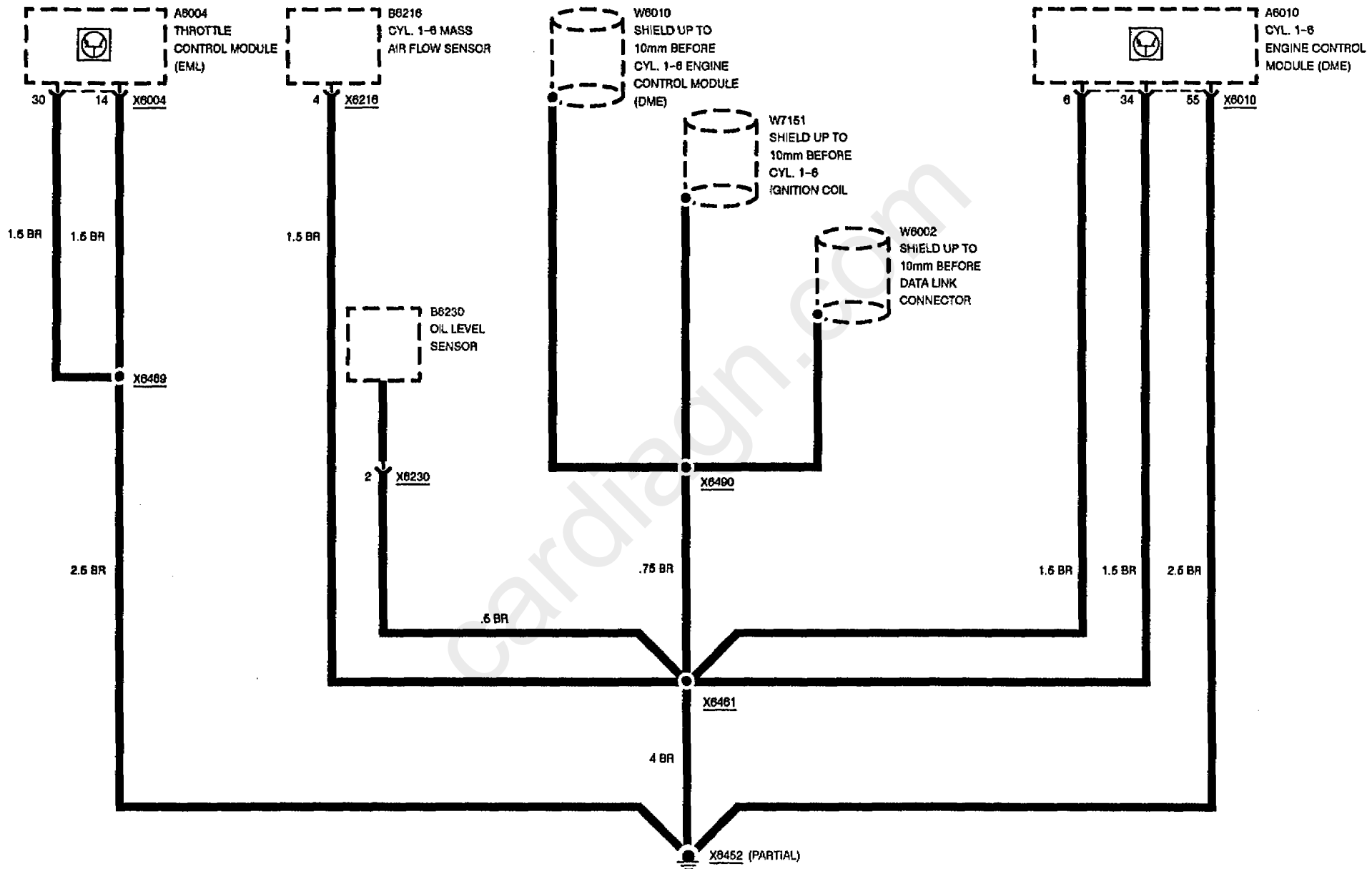
GROUND X6452



carDiagn.com

GROUND DISTRIBUTION

GROUND X6452

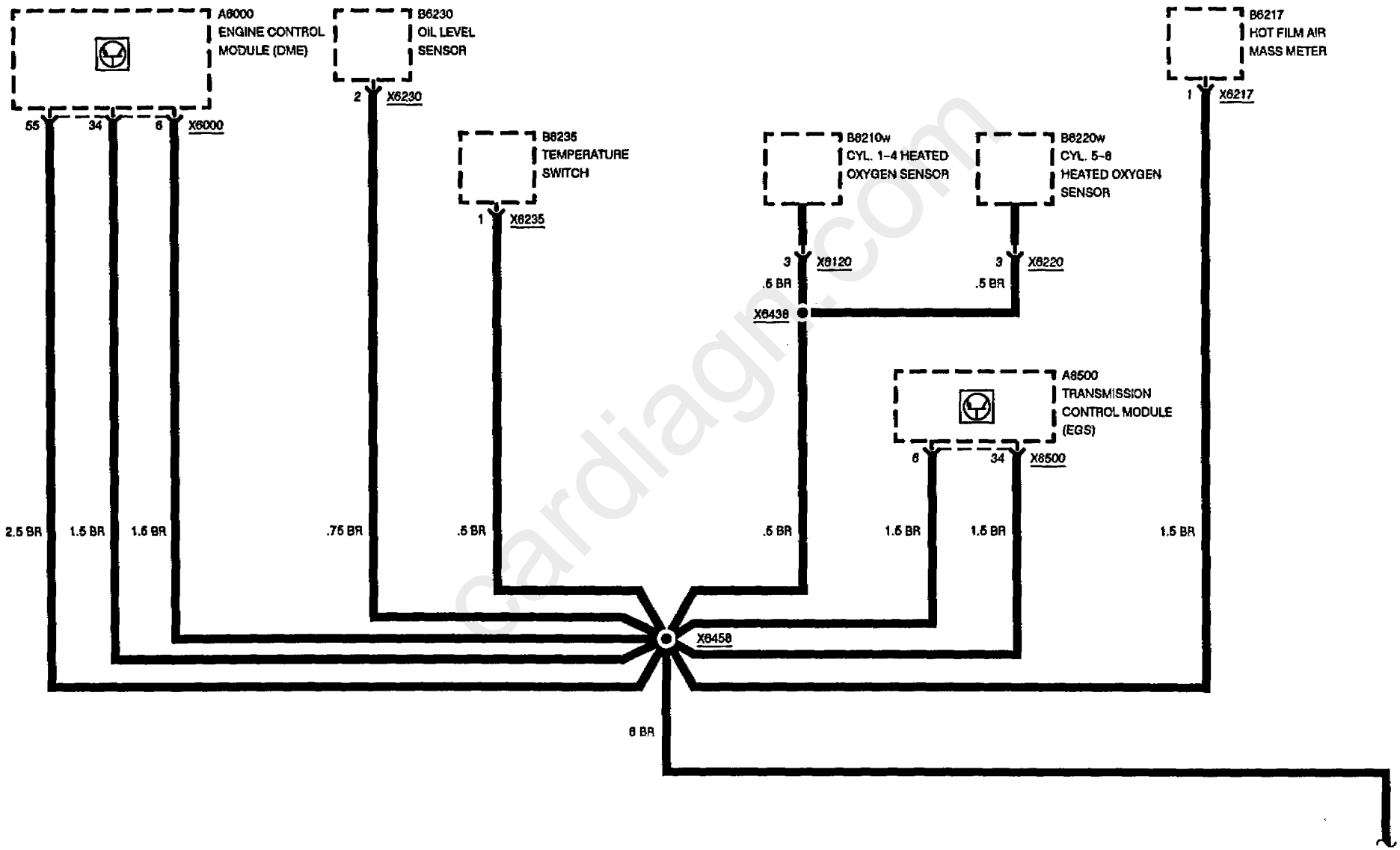


cardiagn.com

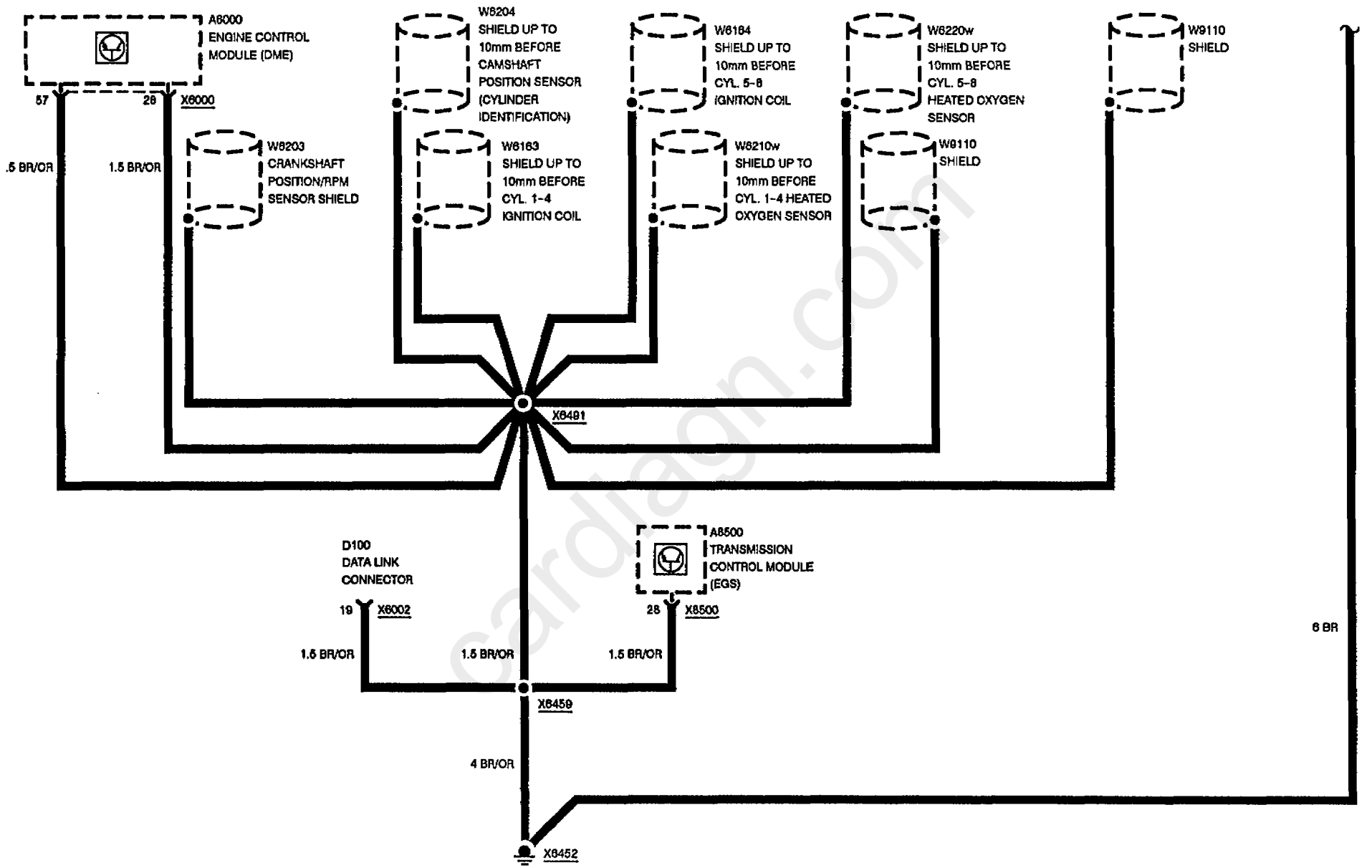
GROUND DISTRIBUTION

840Ci

GROUND X6452



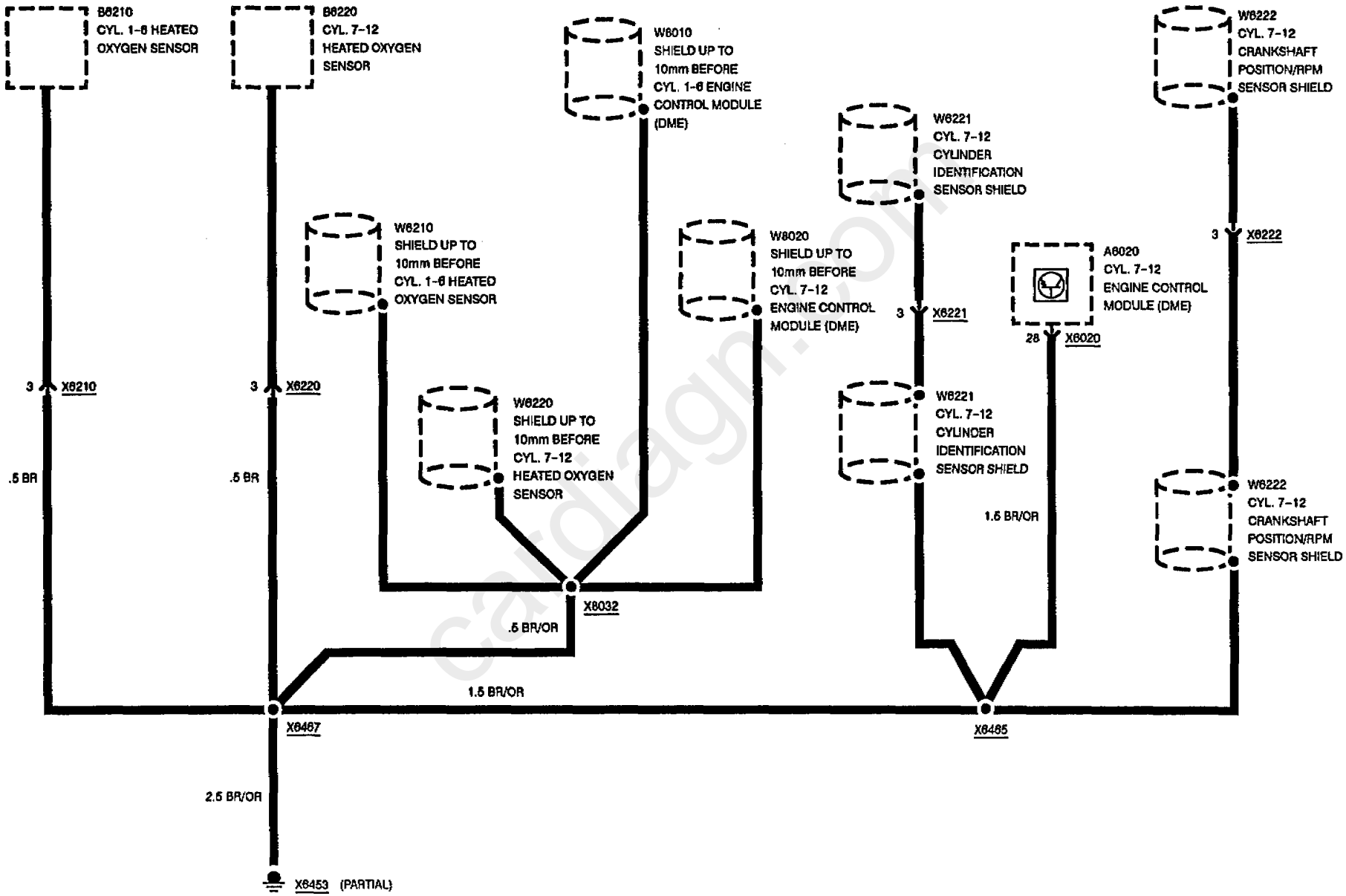
cardiagn.com



cardiagn.com

GROUND DISTRIBUTION

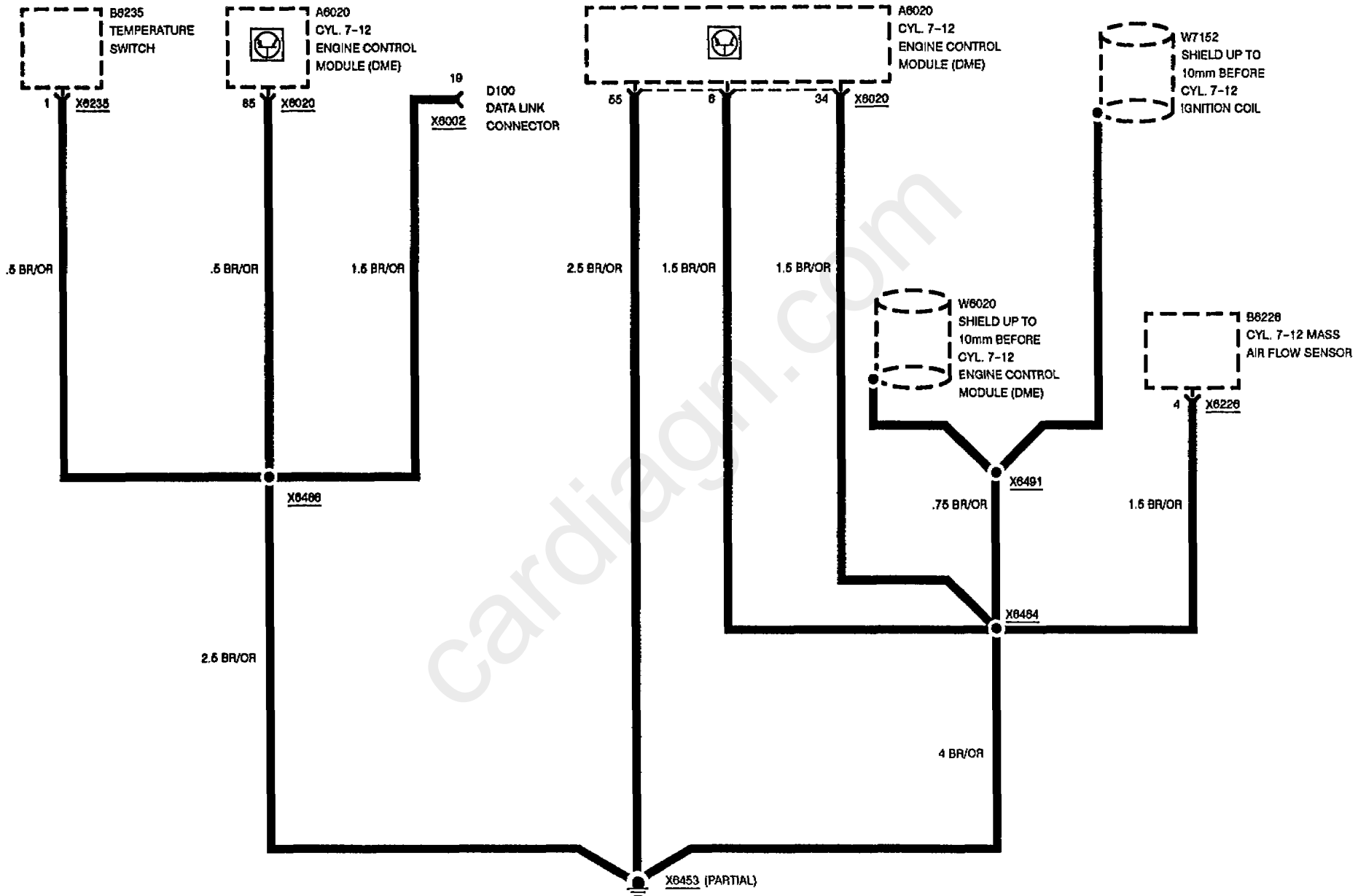
GROUND X6453



caldiagn.com

GROUND DISTRIBUTION

GROUND X6453

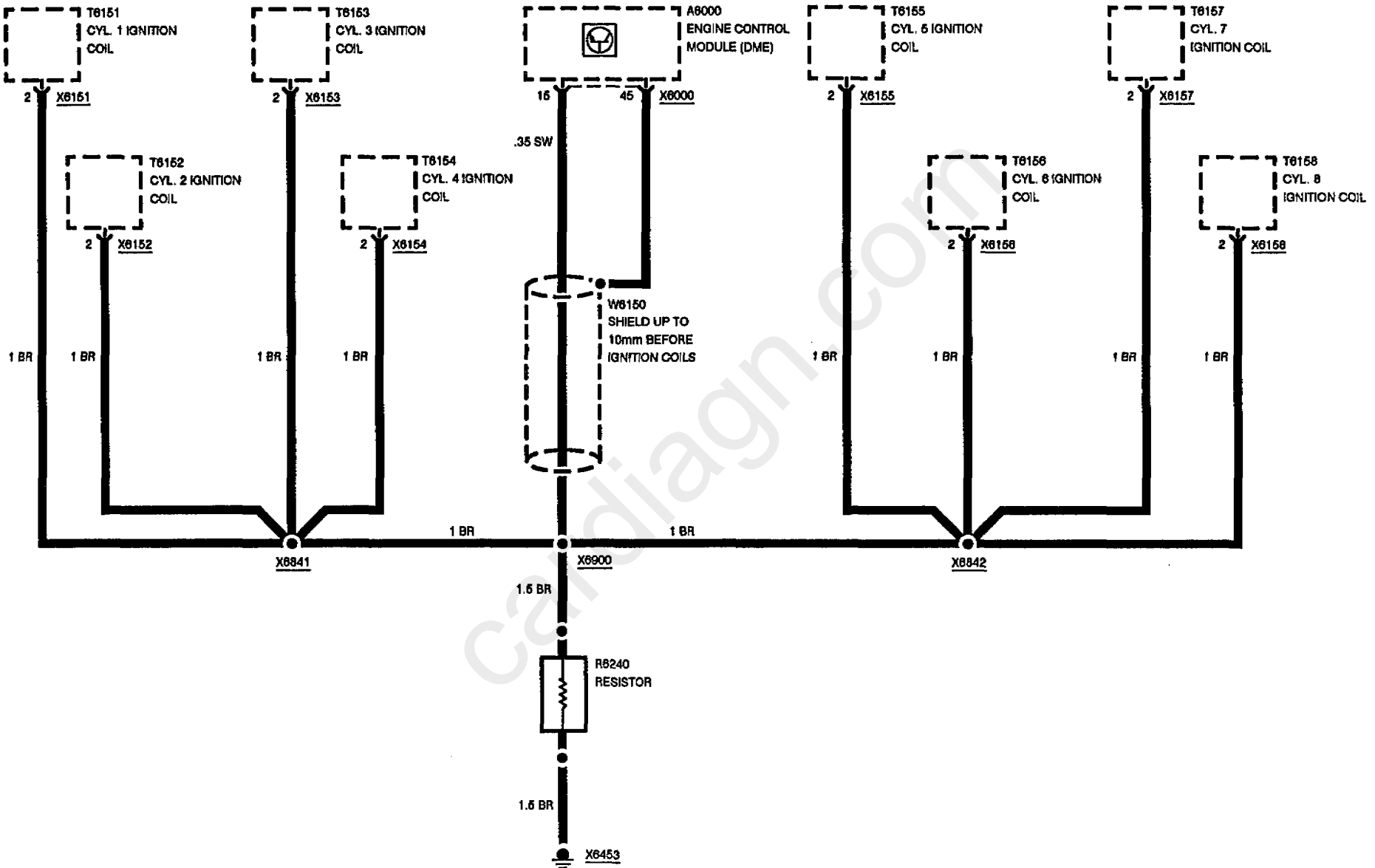


cardiagn.com

GROUND DISTRIBUTION

840Ci

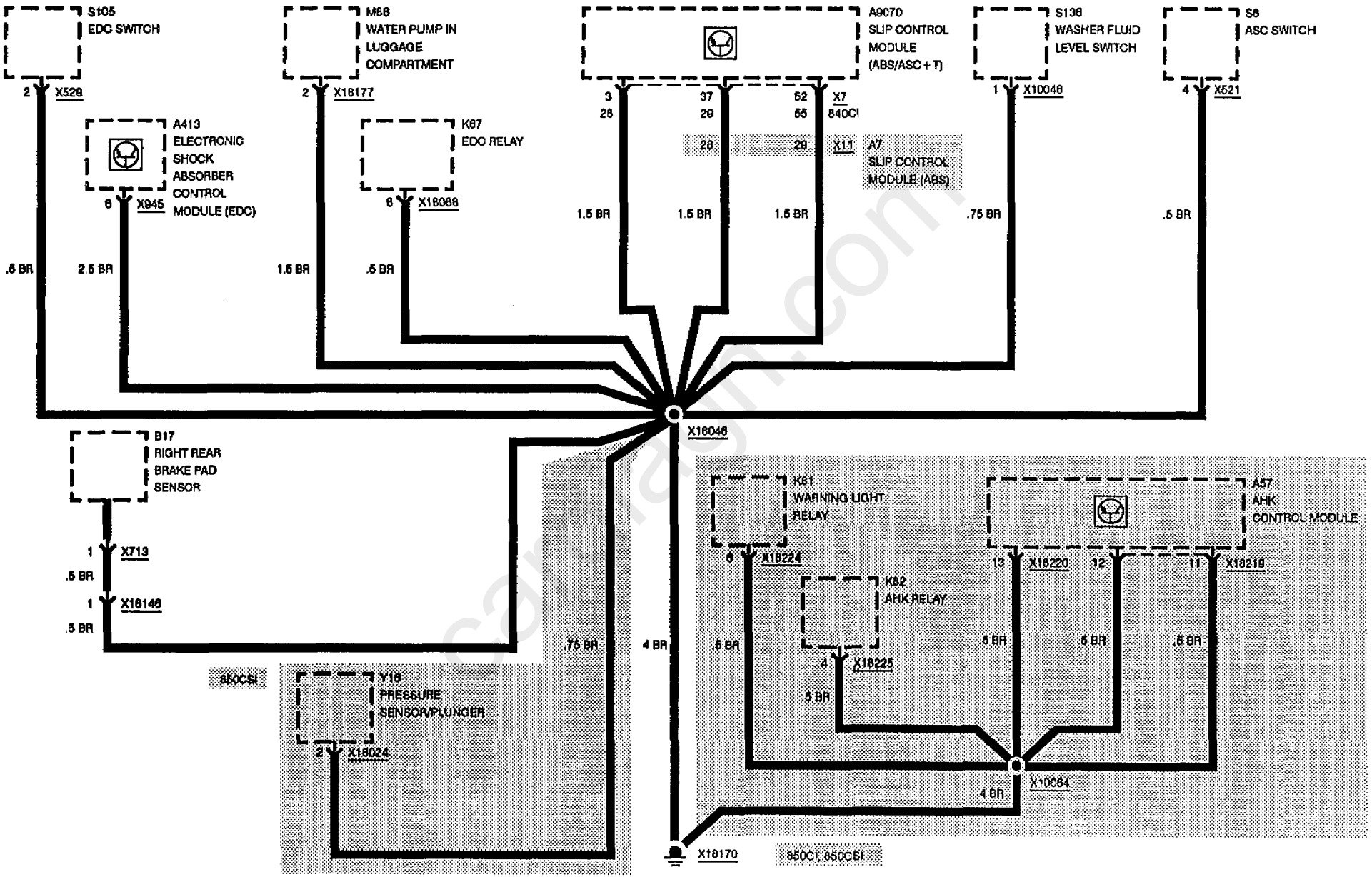
GROUND X6453



cardiagn.com

GROUND DISTRIBUTION

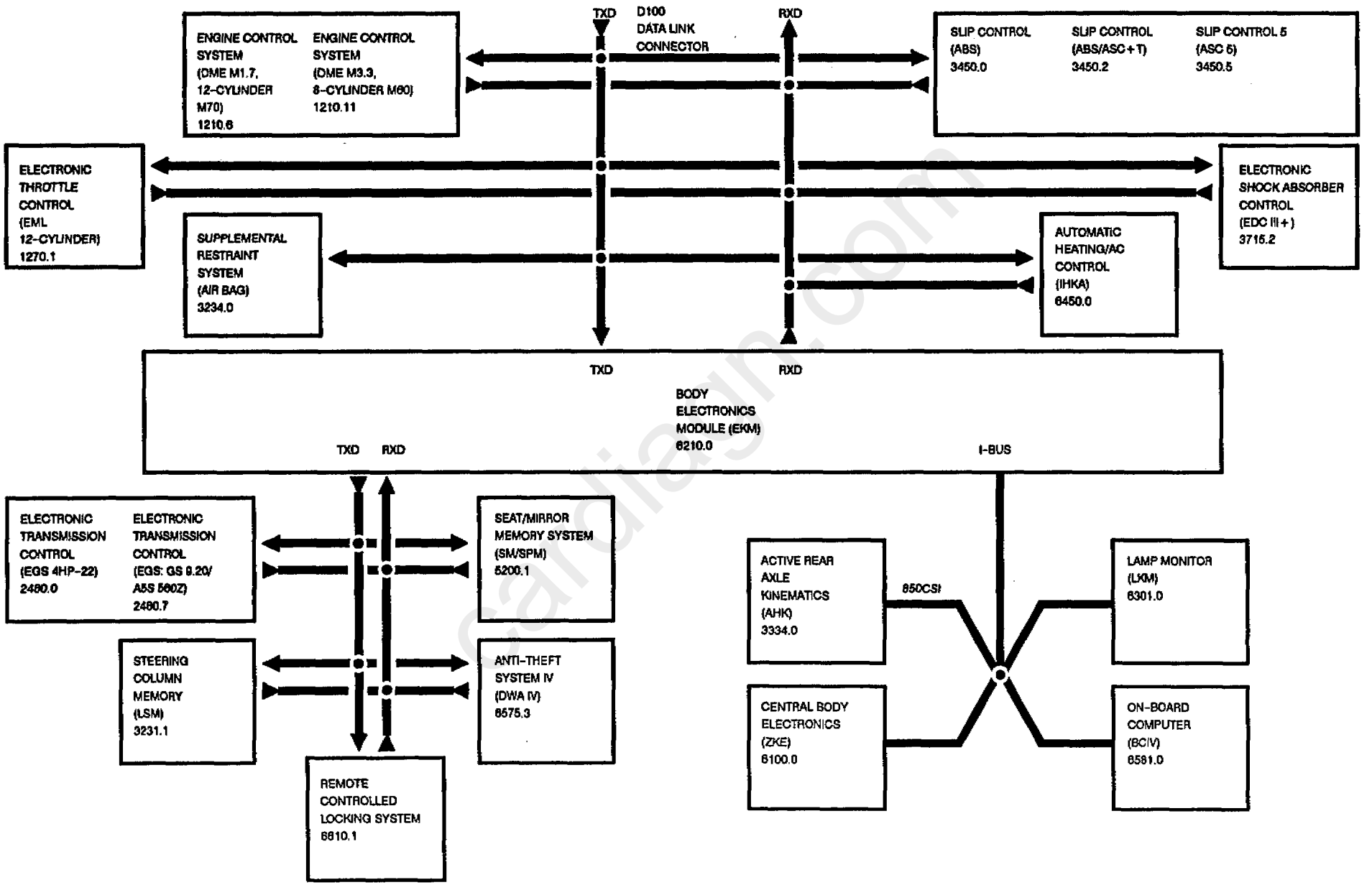
GROUND X18170



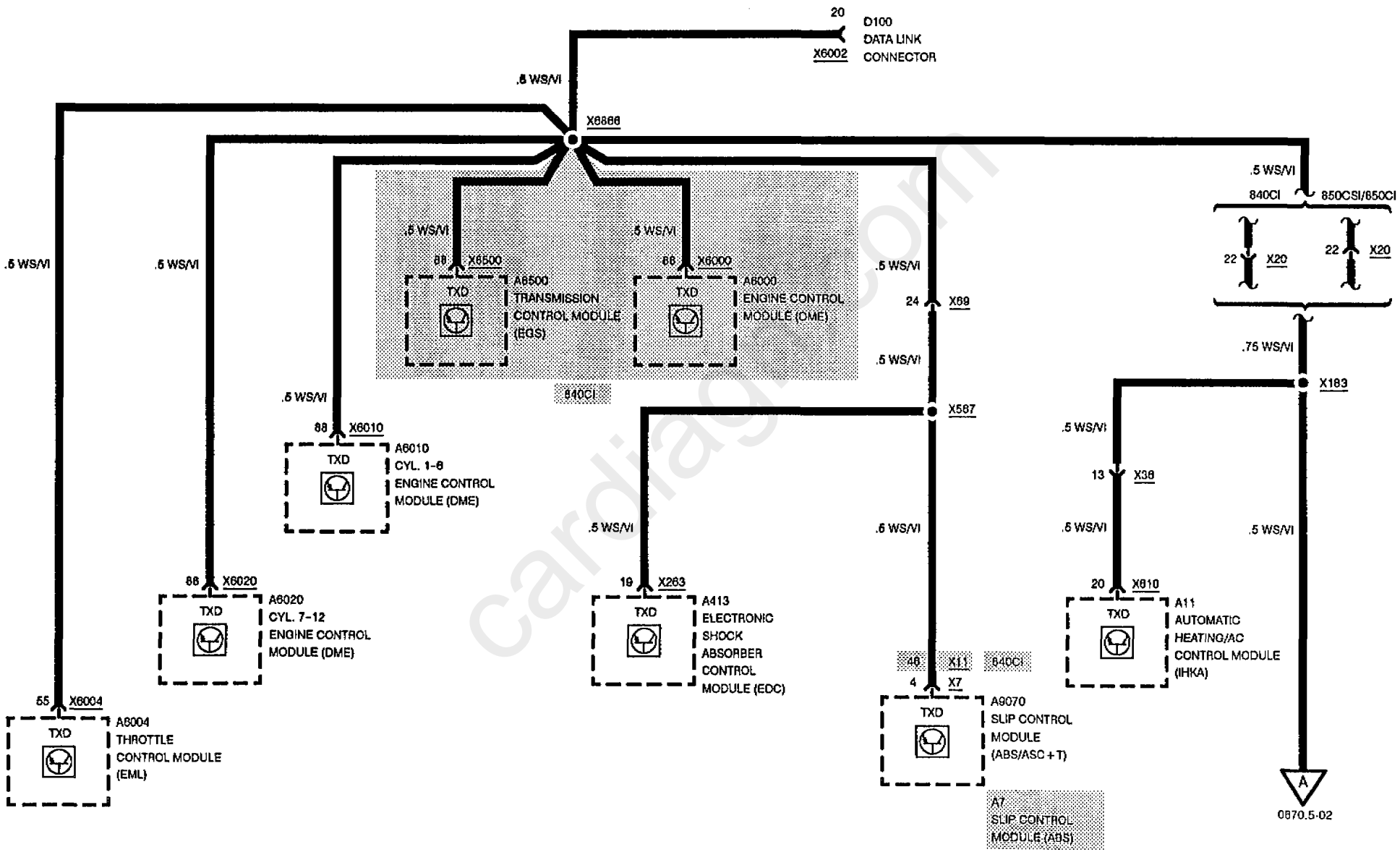
carmanuals.com

DATA LINK

BLOCK DIAGRAM

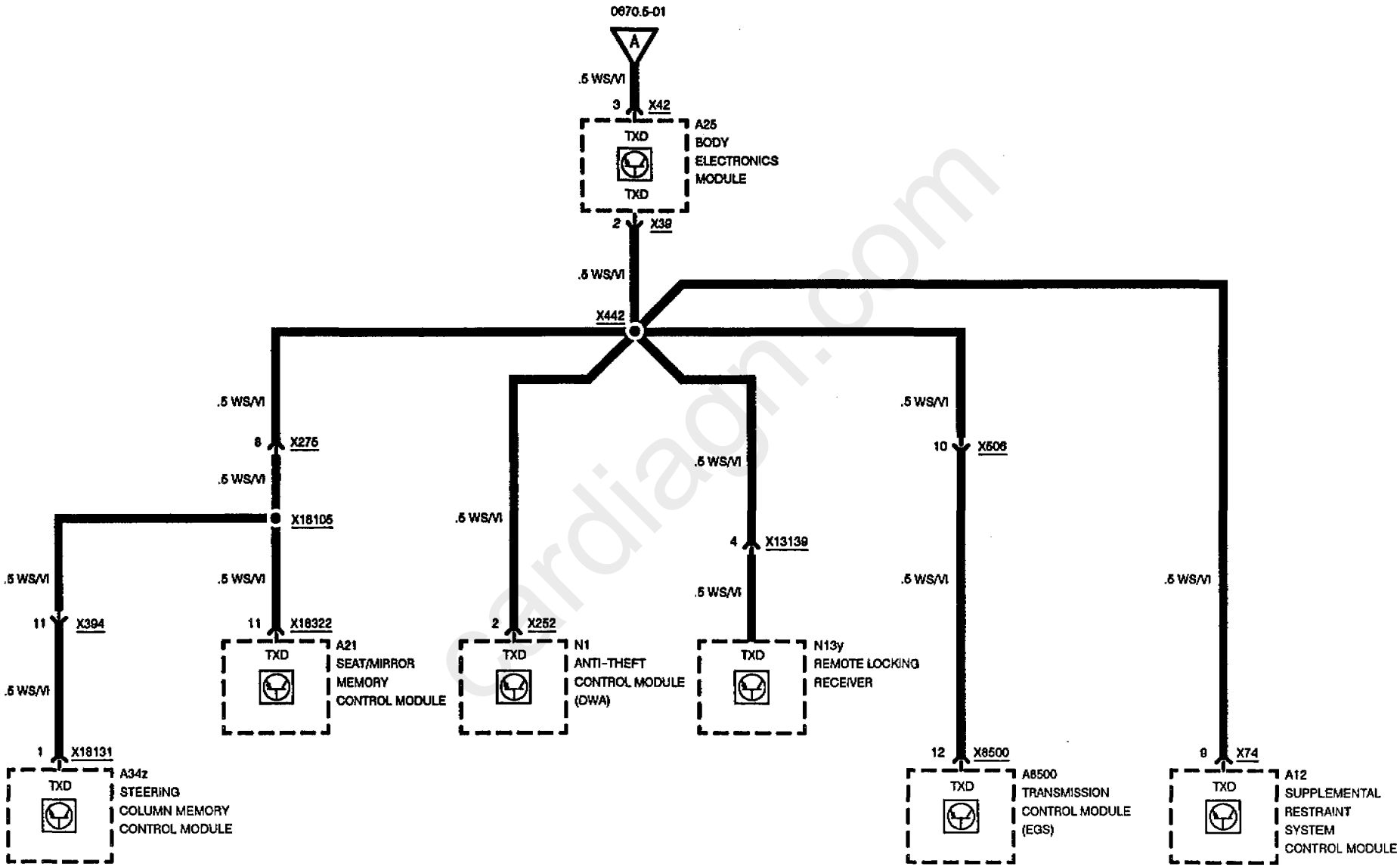


DATA LINK
TXD, PIN 20



cardiagn.com

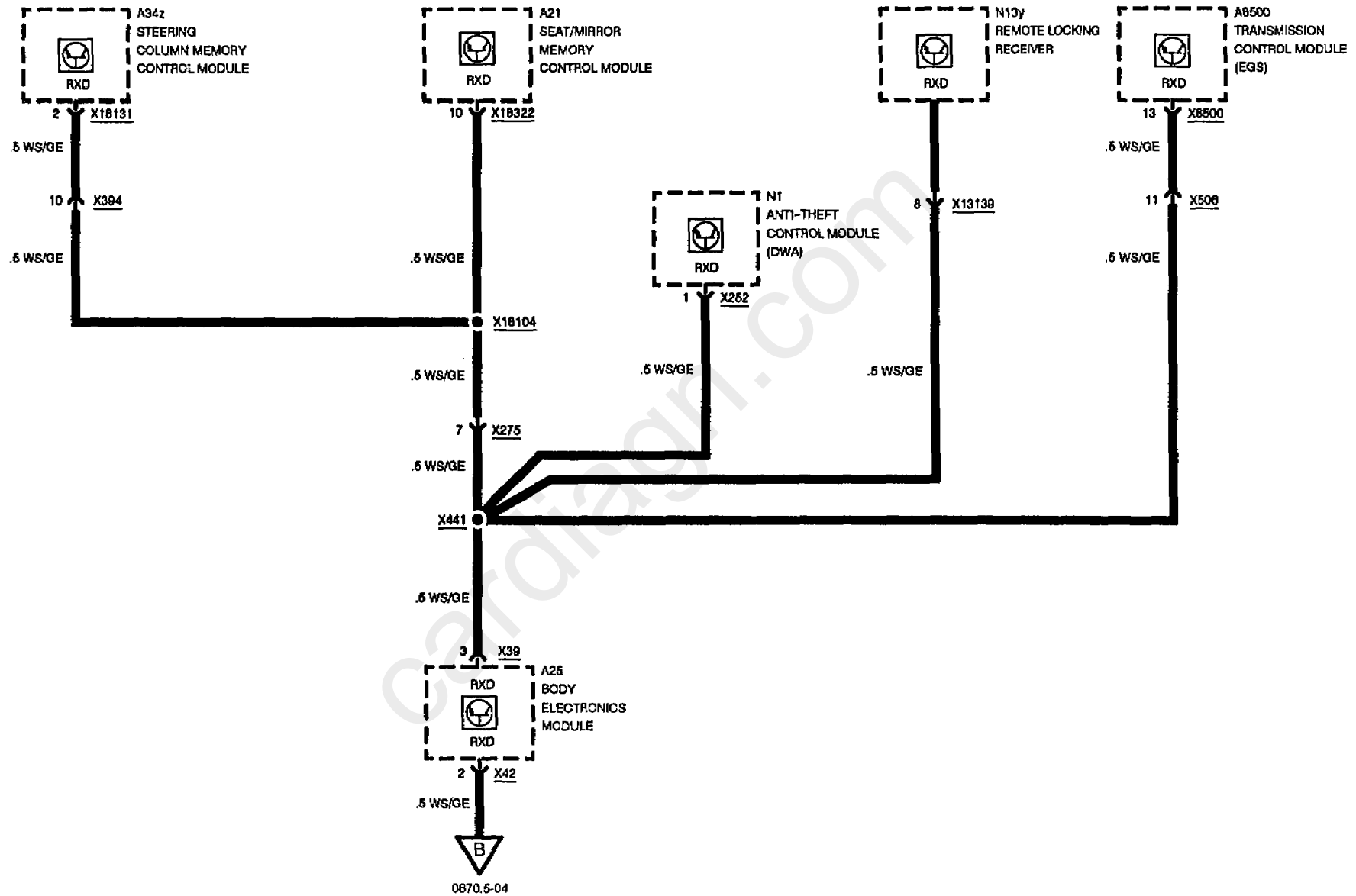
DATA LINK
TXD



cardiagn.com

DATA LINK

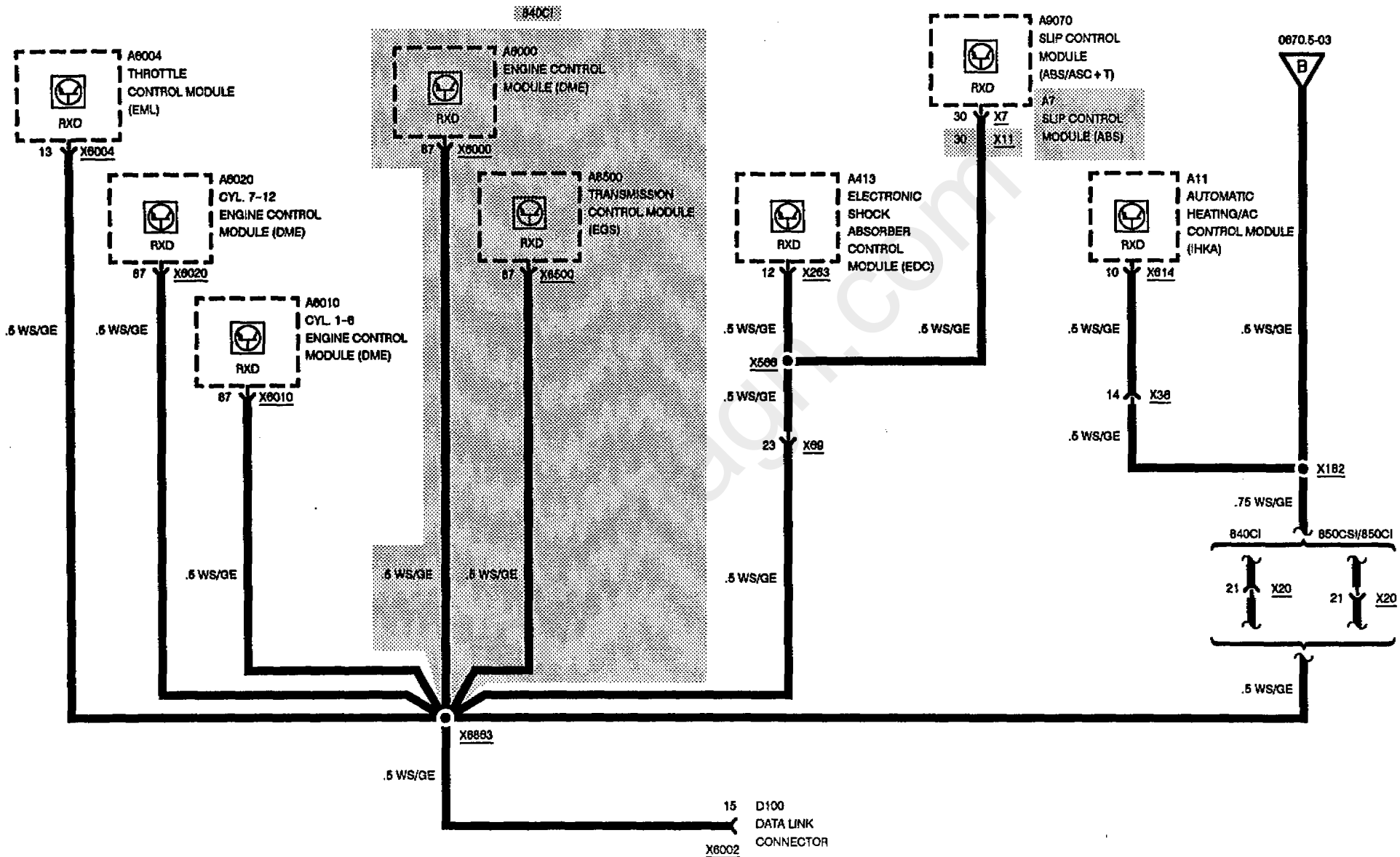
RXD



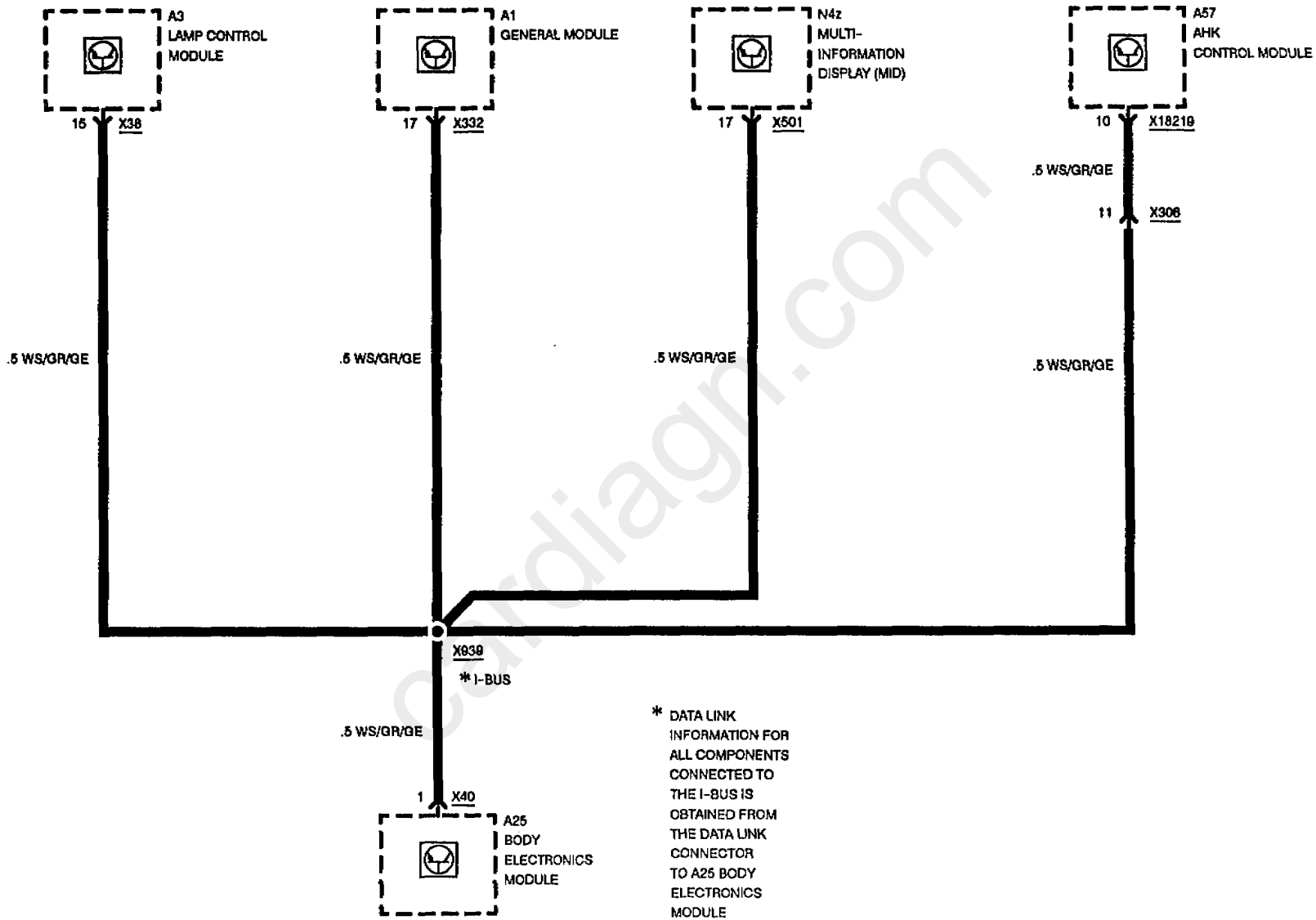
cardiagn.com

DATA LINK

RXD, PIN 15



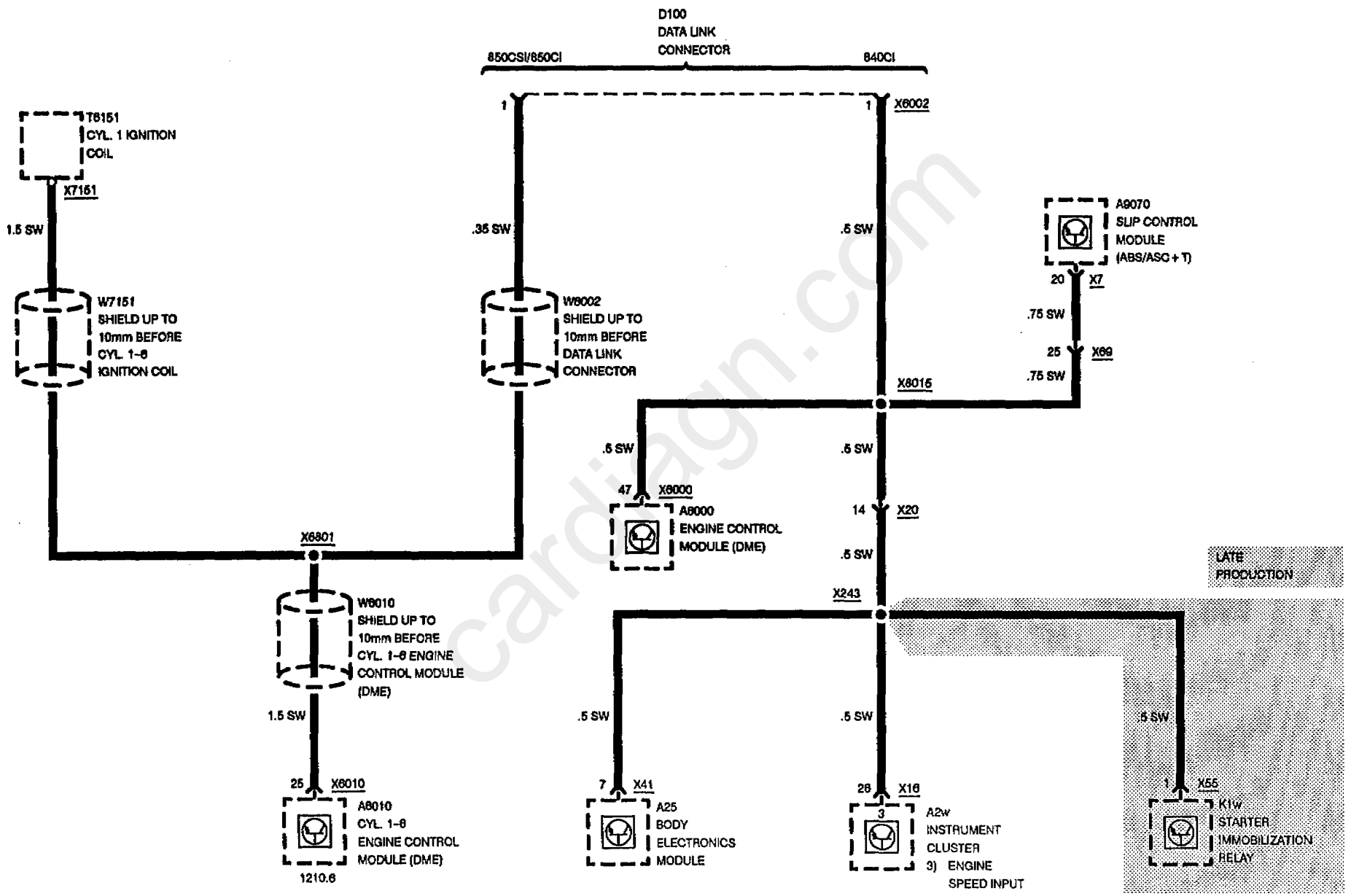
DATA LINK
INSTRUMENTATION BUS (I-BUS)



cardiagn.com

DATA LINK

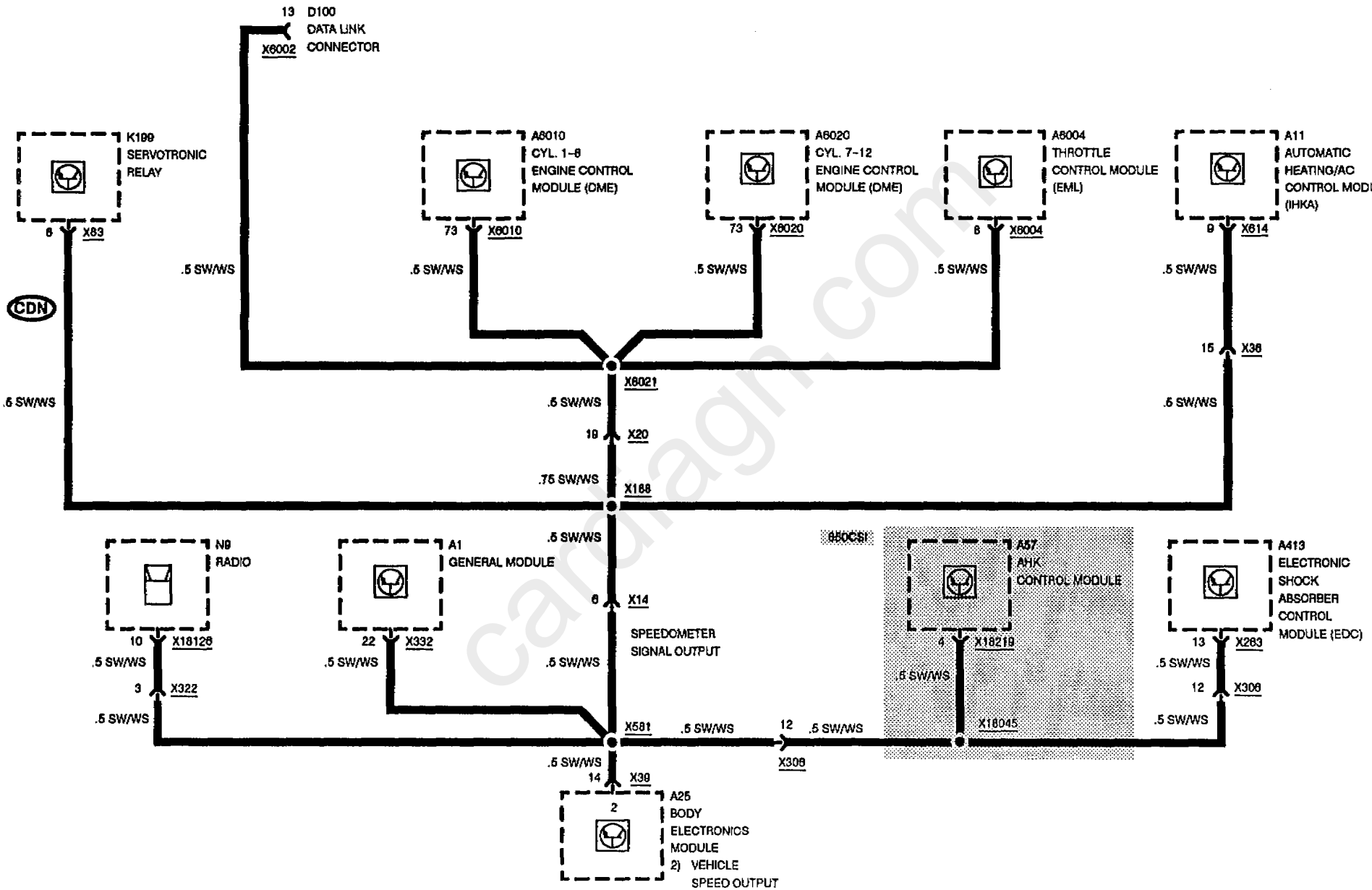
DATA LINK CONNECTOR PIN 1



cardiagn.com

DATA LINK

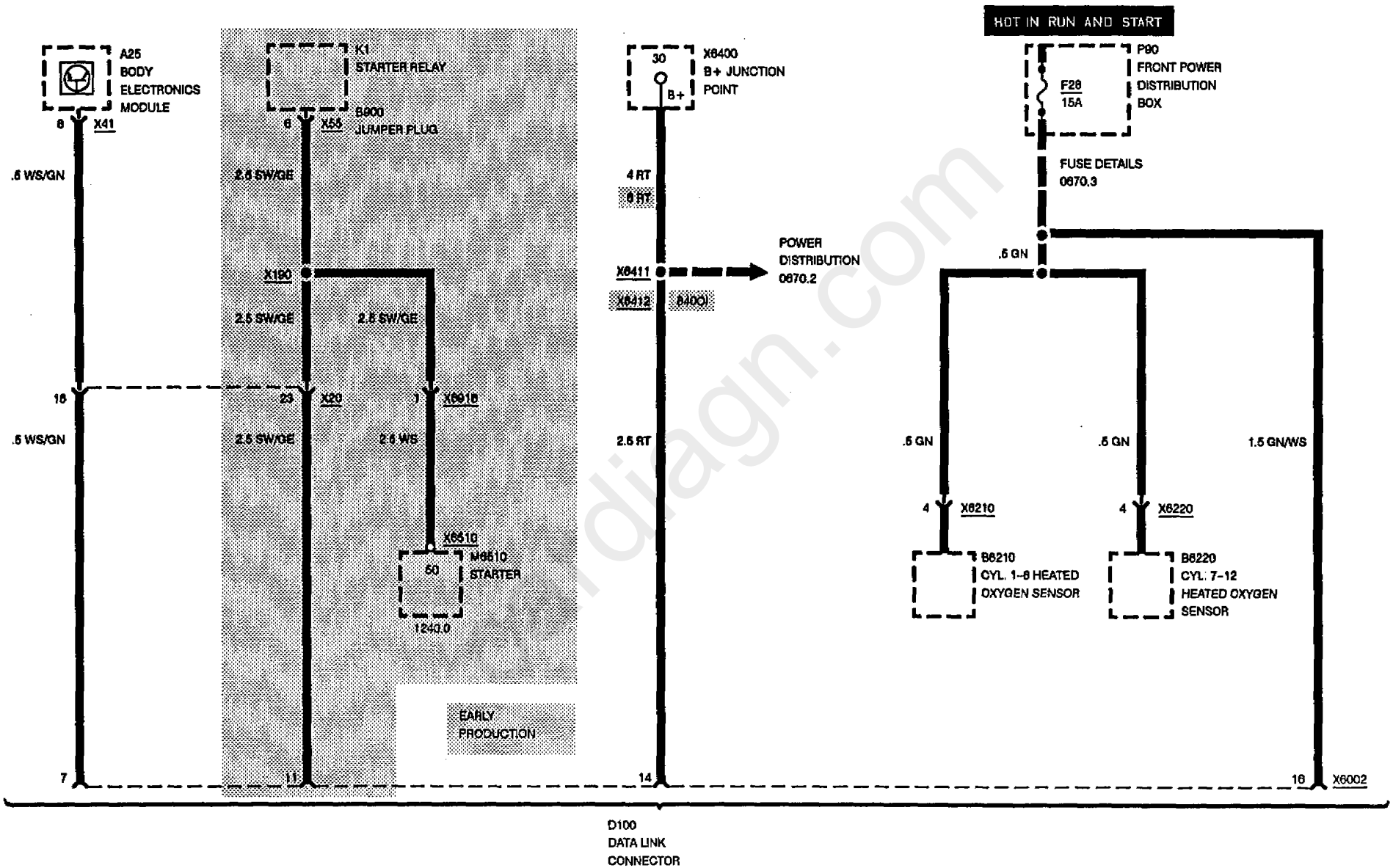
DATA LINK CONNECTOR PIN 13



carDiagn.com

DATA LINK

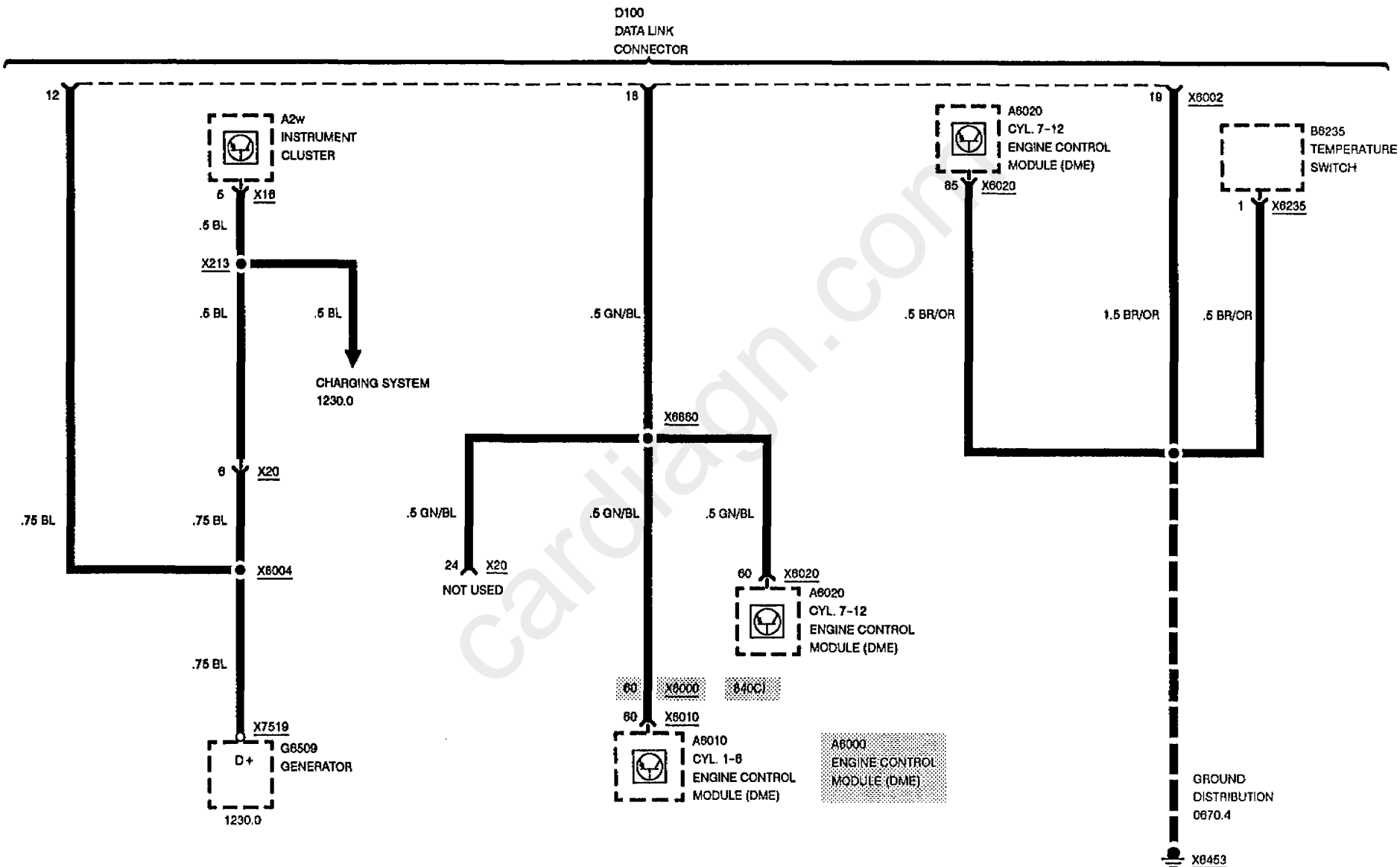
DATA LINK CONNECTOR PINS 7, 11, 14, AND 16



mydiagn.com

DATA LINK

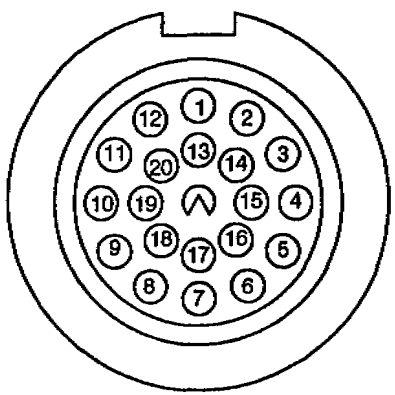
DATA LINK CONNECTOR PINS 12, 18, AND 19



cardiagn.com

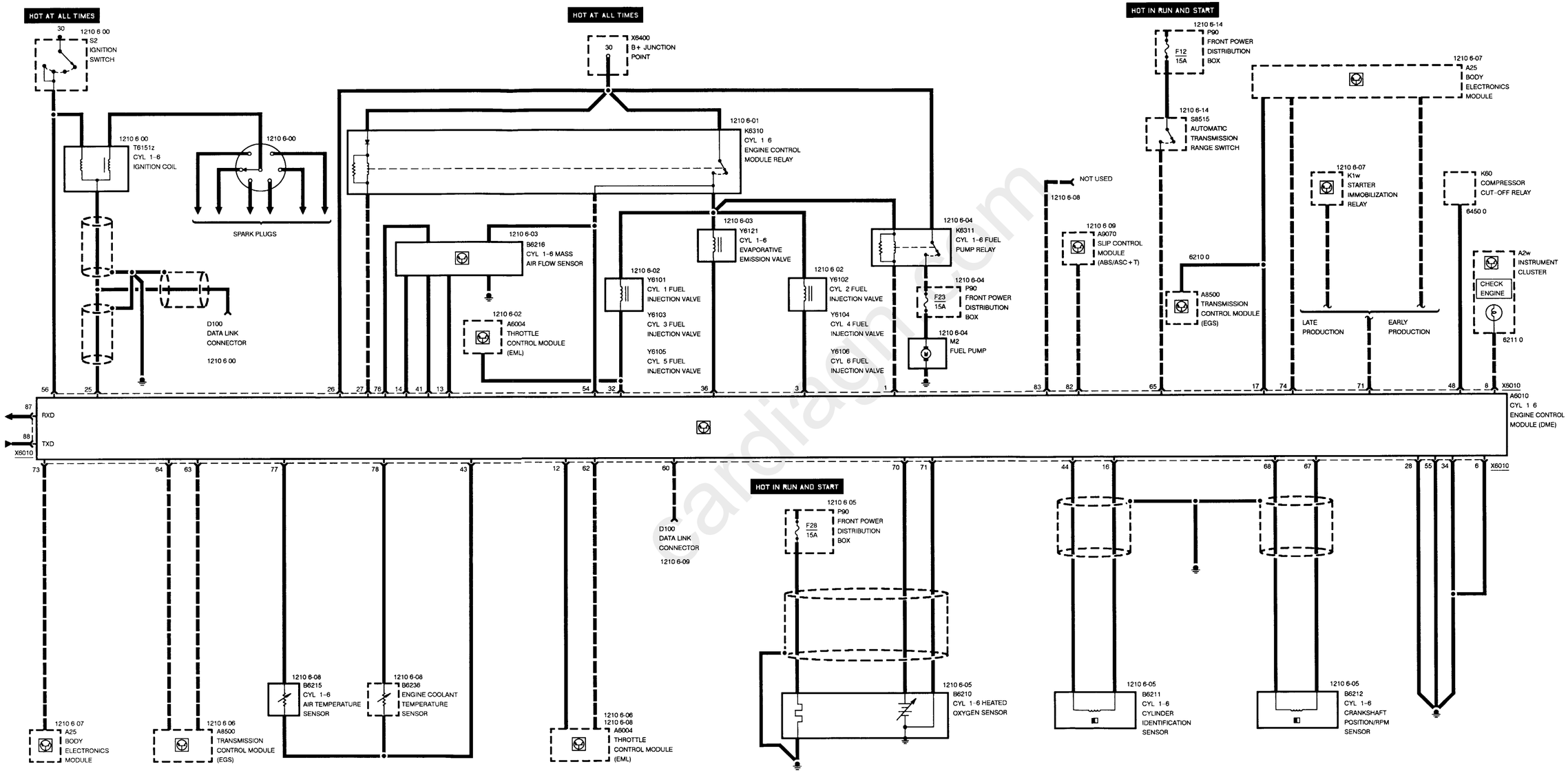
DATA LINK

DATA LINK CONNECTOR (X6002)

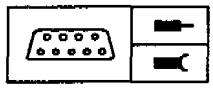


PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1 (850CSI, 850CI)	1	IGNITION COIL	SW
1 (840CI)	RPM	SIGNAL ENGINE SPEED	SW
3	–	NOT OCCUPIED	
4		NOT OCCUPIED	
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INDICATOR REMINDER	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11 EARLY PROD.	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE
11 LATE PROD.	–	NOT OCCUPIED	
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	TACH	SPEEDOMETER SIGNAL OUTPUT	SW/WS
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	PGS	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

carlagram.com



cardiagn.com



Pin Assignments

X6010

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay and crankshaft reference signal (TR)	Fuel pump relay and transmission control module (EGS) torque converter clutch
2		Not used	
3	A	Fuel injector valves cyl. 2 - 4 - 6	Fuel injector valves
4		Not used	
5		Not used	
6	M	Ground, fuel injector valve output stages	Ground point
7		Not used	
8	A	Service reminder indicator (US only)	Instrument cluster
9		Not used	
10		Not used	
11		Not used	
12	E	Wide open throttle signal (VL)	Electronic throttle control module (EML)
13	A	Free combustion	Mass air flow sensor
14	M	Ground, mass air flow sensor	Mass air flow sensor
15		Not used	
16	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection B)
17	A	Injection measuring signal (ti) (KVA signal)	Body electronics module (EKM)
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25	A	Ignition, terminal 1	Cyl. 1 - 6 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay	Engine control module relay terminal 85 (additionally, jumper to second engine control module relay)

E = Input, A = Output, M = Ground

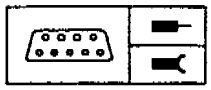
bmwdiagn.com

Pin Assignments

Pin	Type	Description/Function	Connection
28	M	Ground for electronics and shielding the sensors	Ground point
29		Not used	
30		Not used	
31		Not used	
32	A	Fuel injector valves cyl. 1 - 3 - 5	Fuel injector valves and electronic throttle control module (EML)
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injector valves)	Ground point
35		Not used	
36	A	Fuel evaporation purge valve	Fuel evaporation purge valve
37		Not used	
38		Not used	
39		Not used	
40		Not used	
41	E	Mass air flow sensor signal	Mass air flow sensor
42		Not used	
43	M	Ground for sensors	Temperature sensors
44	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection A)
45		Not used	
46		Not used	
47		Not used	
48	A	Compressor cut-off signal	Compressor cut-off relay
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay
55	M	Ground, ignition	Ground point
56	E	Ignition, terminal 15	Ignition switch

E = Input, A = Output, M = Ground

cardiagn.com

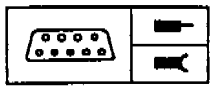


Pin Assignments

Pin	Type	Description/Function	Connection
57		Not used	
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	
62	E	Idle signal (LL)	Electronic throttle control module (EML)
63	E	Torque converter clutch (WK)	Transmission control module (EGS)
64	E	Ignition timing intervention	Transmission control module (EGS)
65	E	Park/Neutral sensing	Automatic transmission range switch
66		Not used	
67	E	Inductive pulse generator (connection B)	Pulse generator, crankshaft rpm sensor
68	E	Inductive pulse generator (connection A)	Pulse generator, crankshaft rpm sensor
69		Not used	
70	E	Oxygen sensor signal	Heated oxygen sensor
71	M	Ground, oxygen sensor	Heated oxygen sensor
72		Not used	
73	E	Speedometer signal	Body electronics module (EKM)
74	A	Engine speed signal (TD)	Body electronics module (EKM)
75		Not used	
76	E	Idle CO-potentiometer	Mass air flow sensor
77	E	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	Antitheft signal (Early Production)	Body electronics module (EKM)
81	E	Antiheft signal (Late Production)	Starter immobilization relay
82	E	ASC ignition angle control (MSR)	ASC + T control unit
83		Not used	
84		Not used	
85		Not used	
86		Not used	

E = Input, A = Output, M = Ground

carDiagn.com



Pin Assignments

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

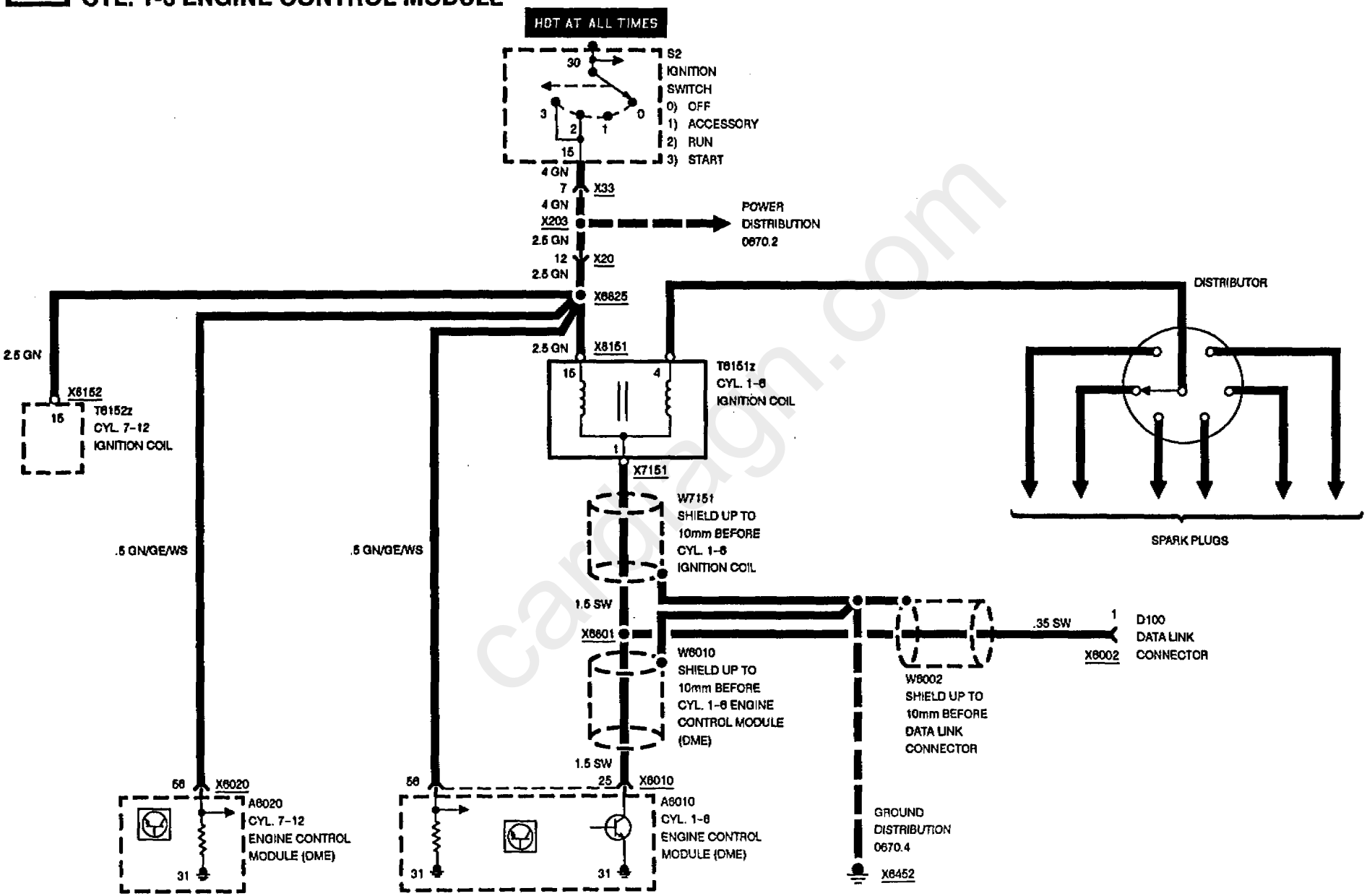
cardiagn.com

E = Input, A = Output, M = Ground

carclagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

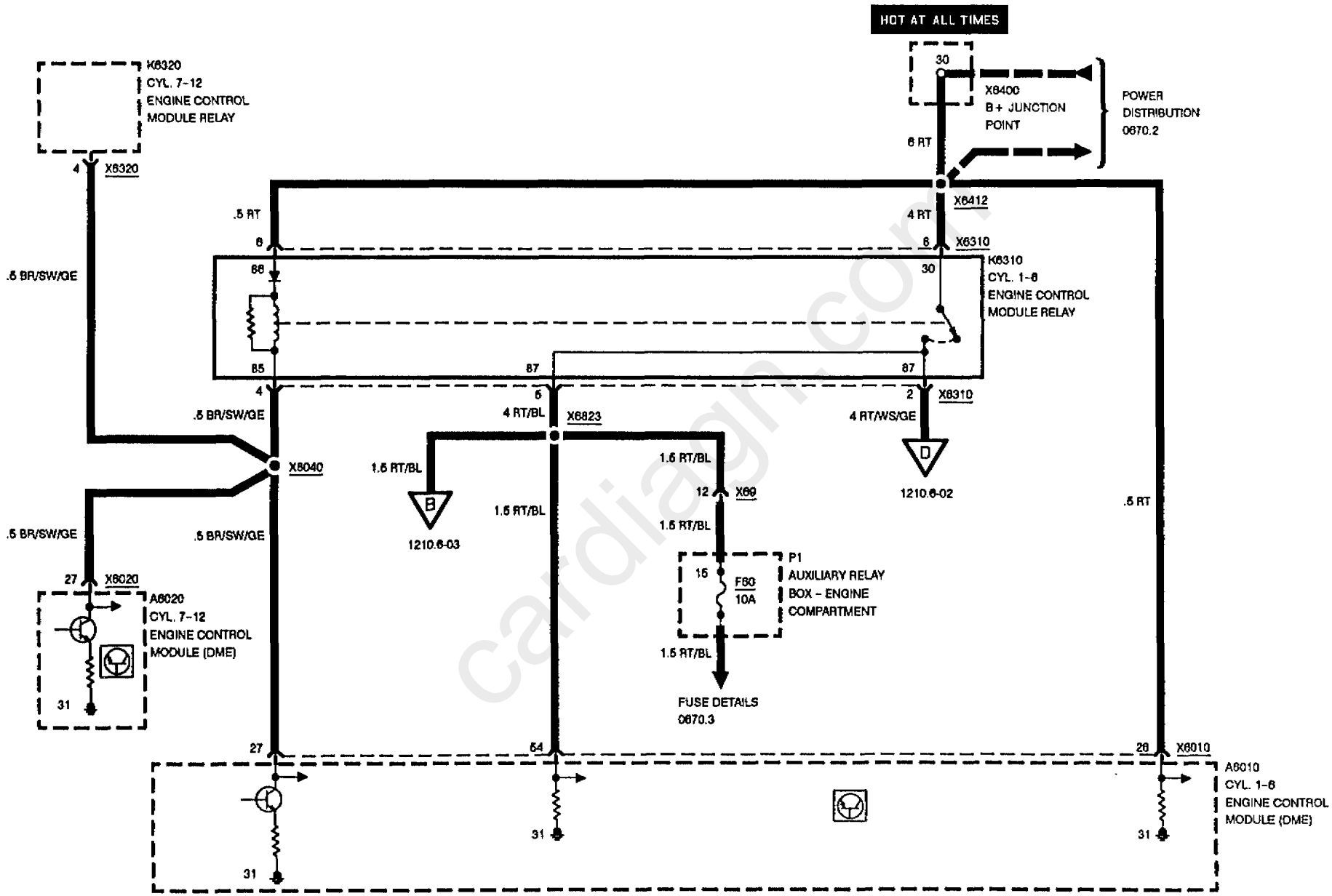
CYL. 1-6 ENGINE CONTROL MODULE



cargiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

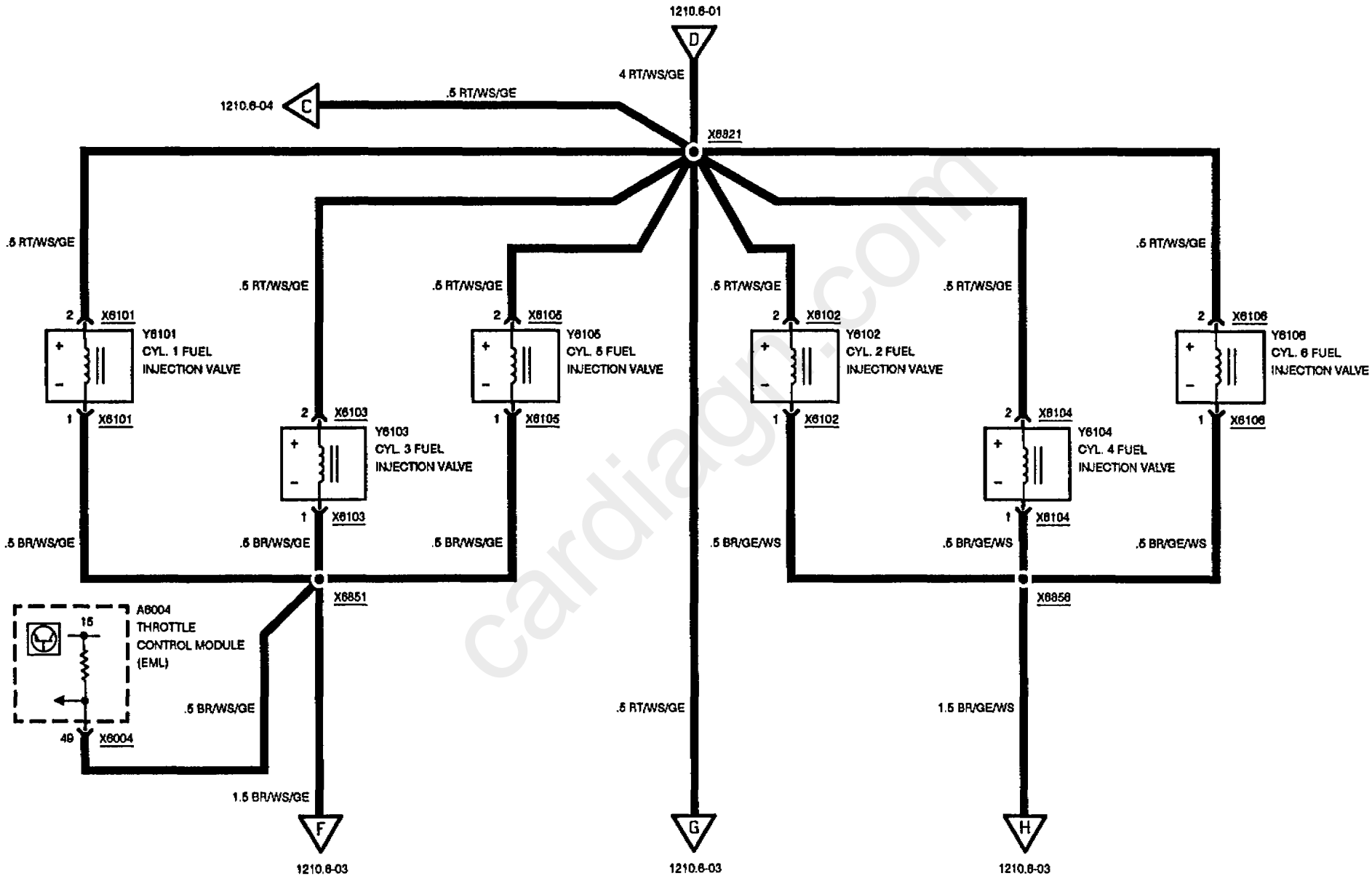
CYL. 1-6 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

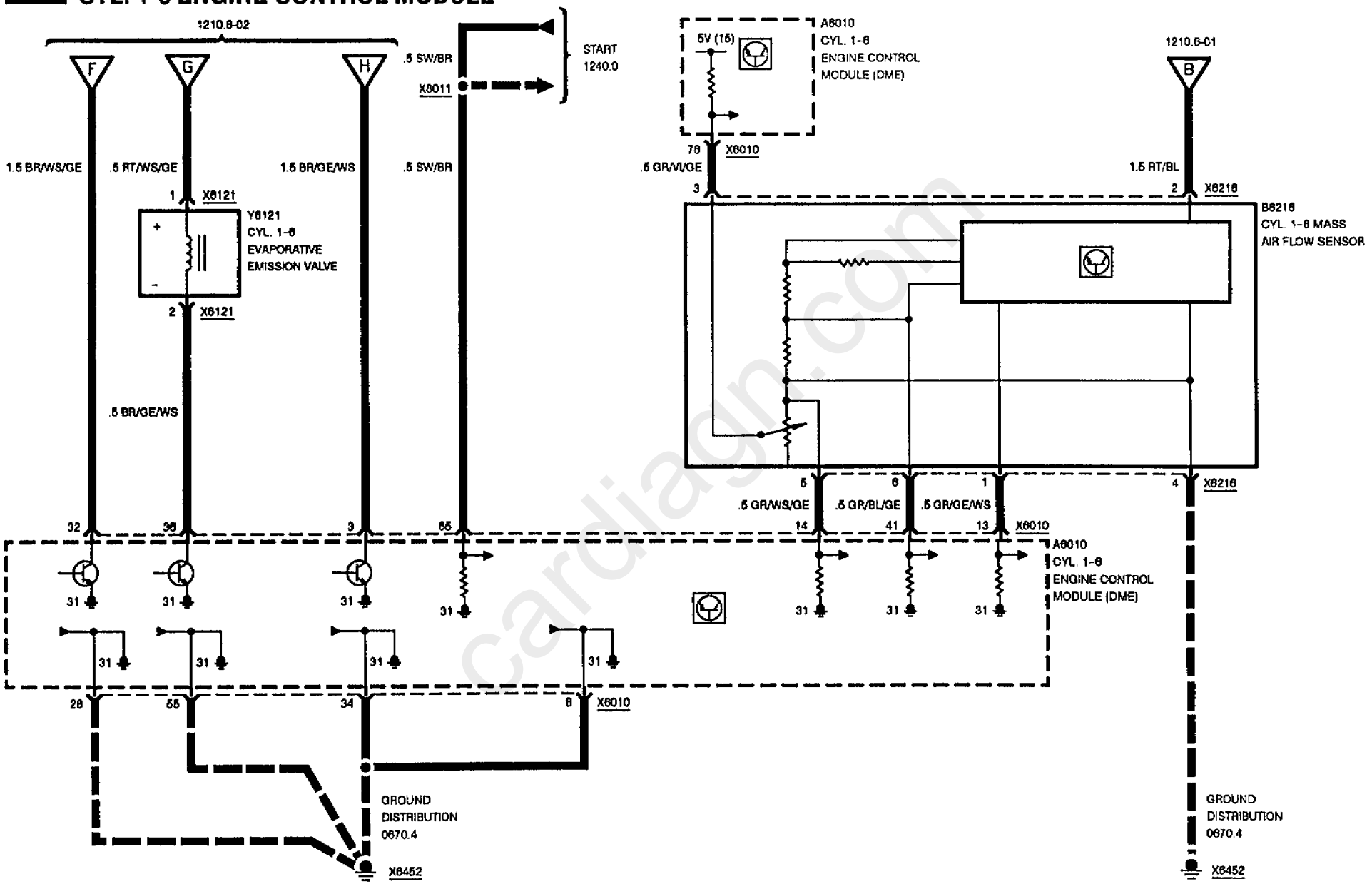
FUEL INJECTION VALVES



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

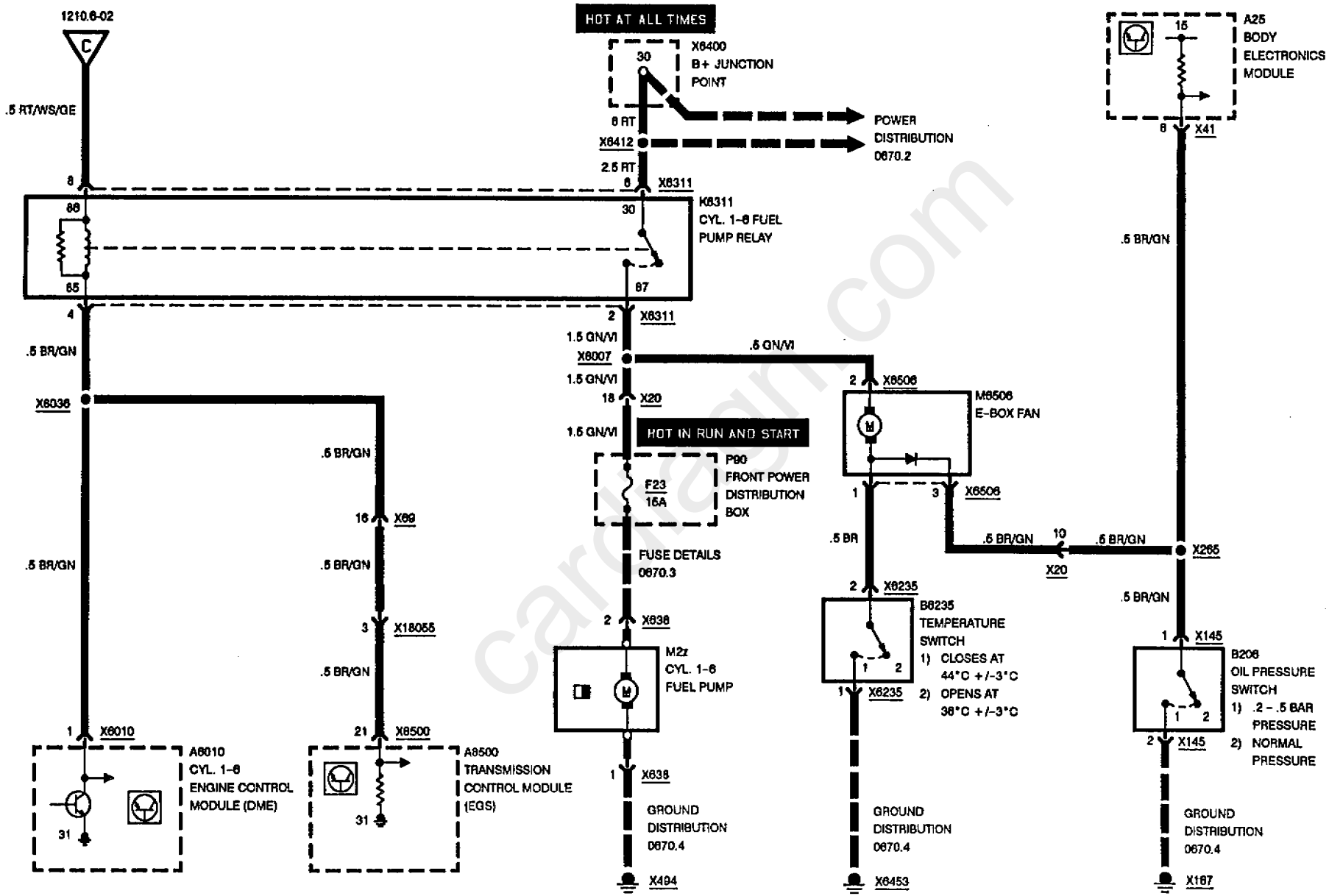
CYL. 1-6 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

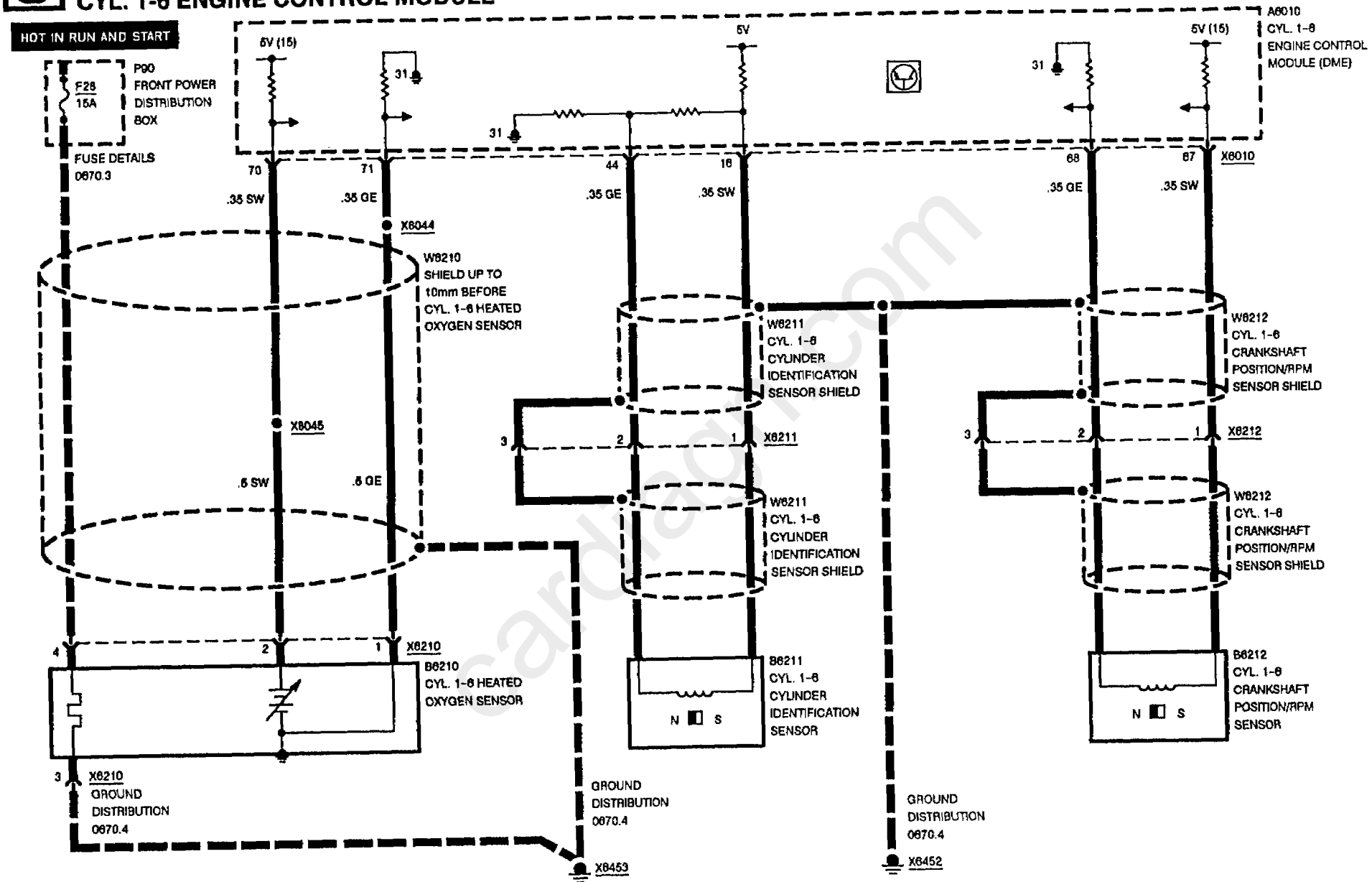
CYL. 1-6 ENGINE CONTROL MODULE



carcraft.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

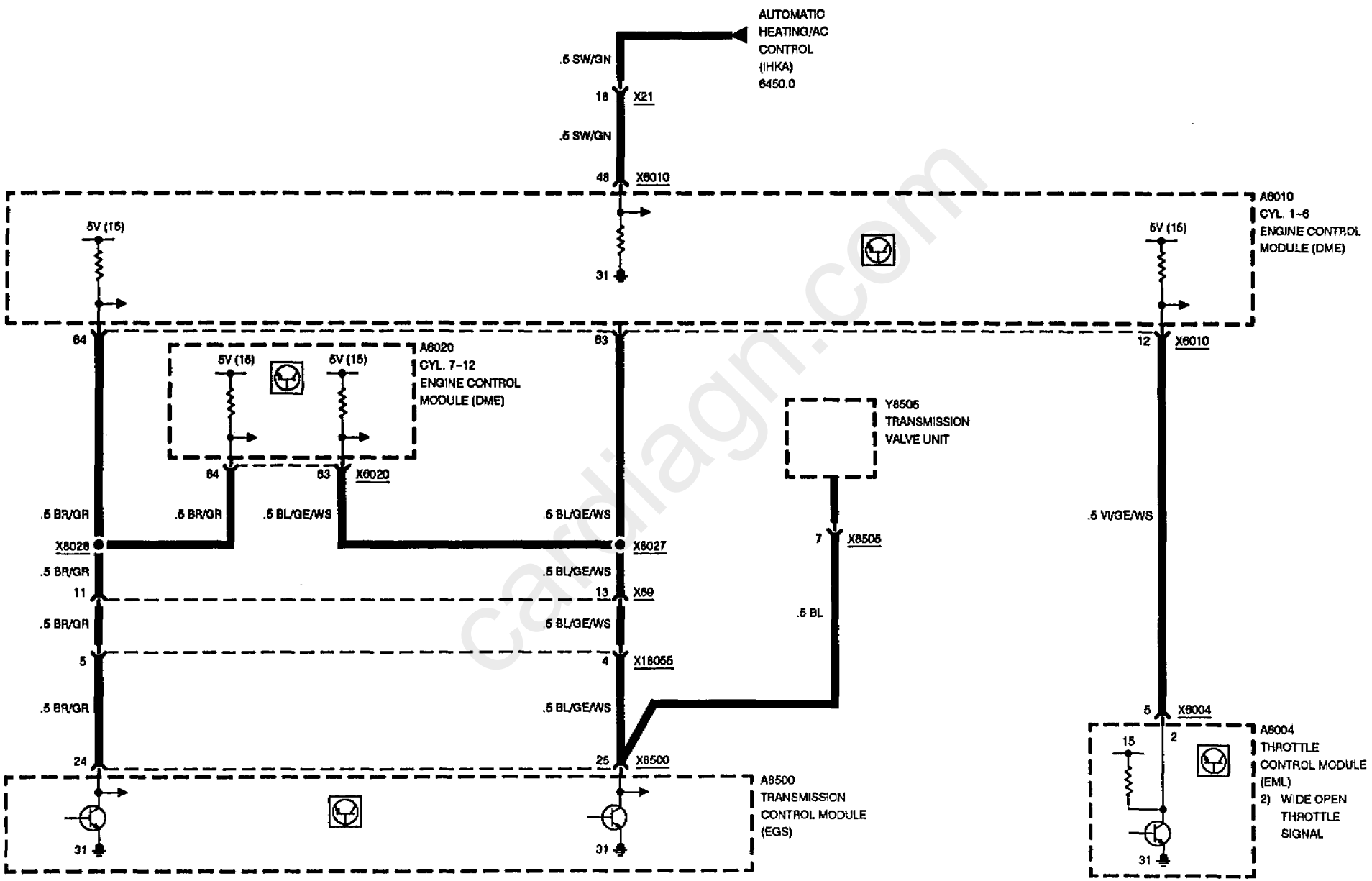
CYL. 1-6 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

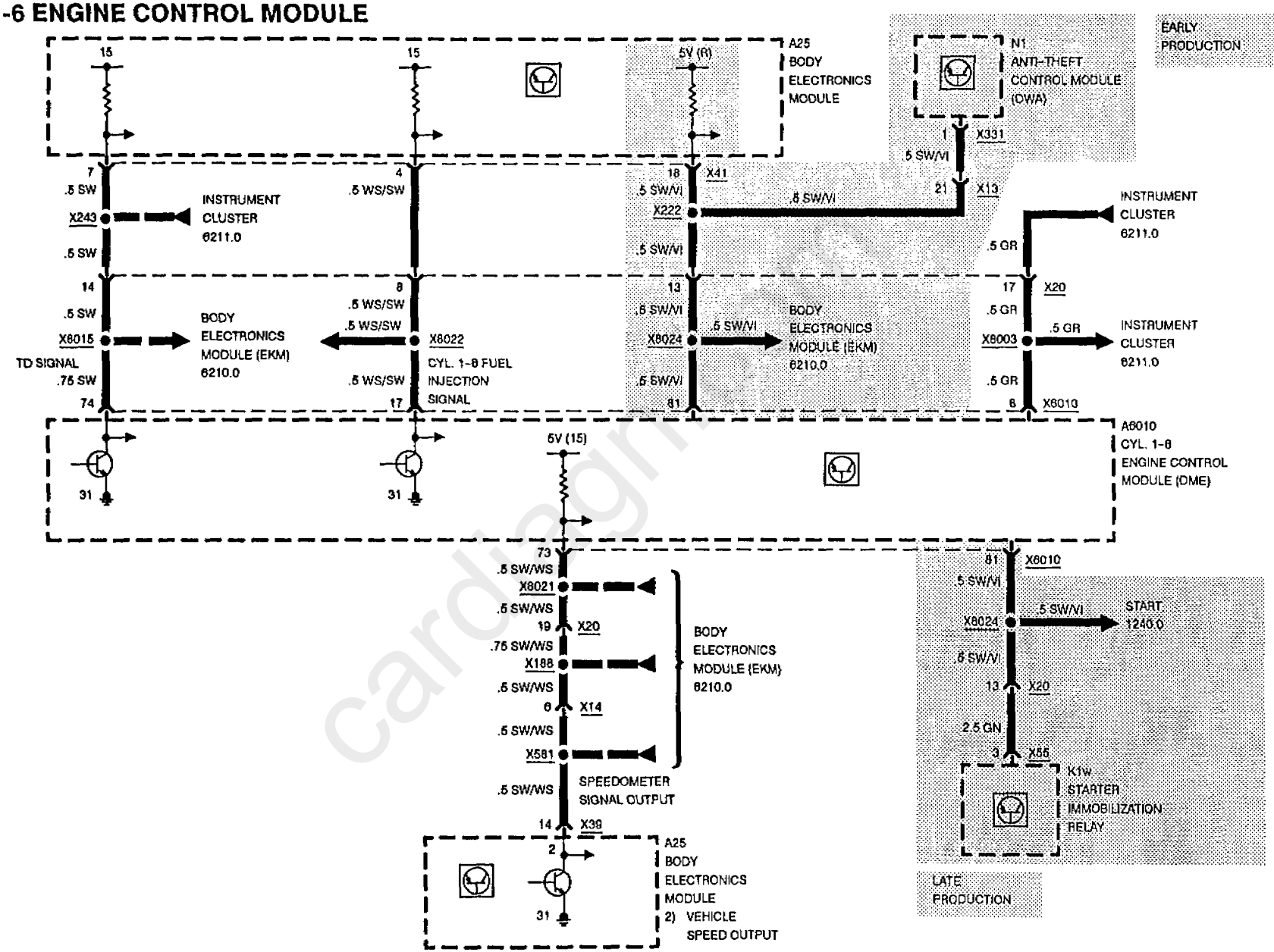
CYL. 1-6 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

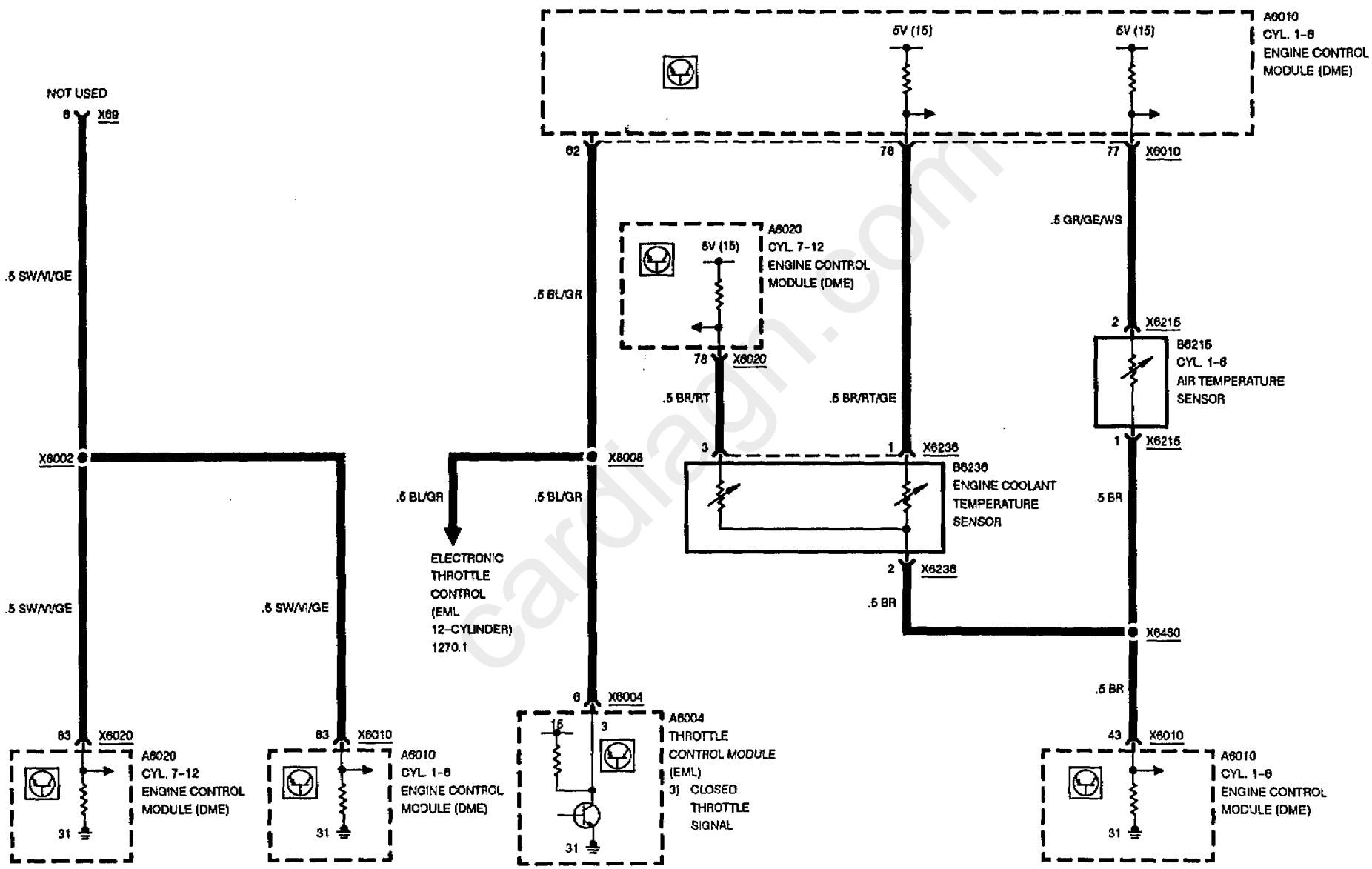
CYL. 1-6 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

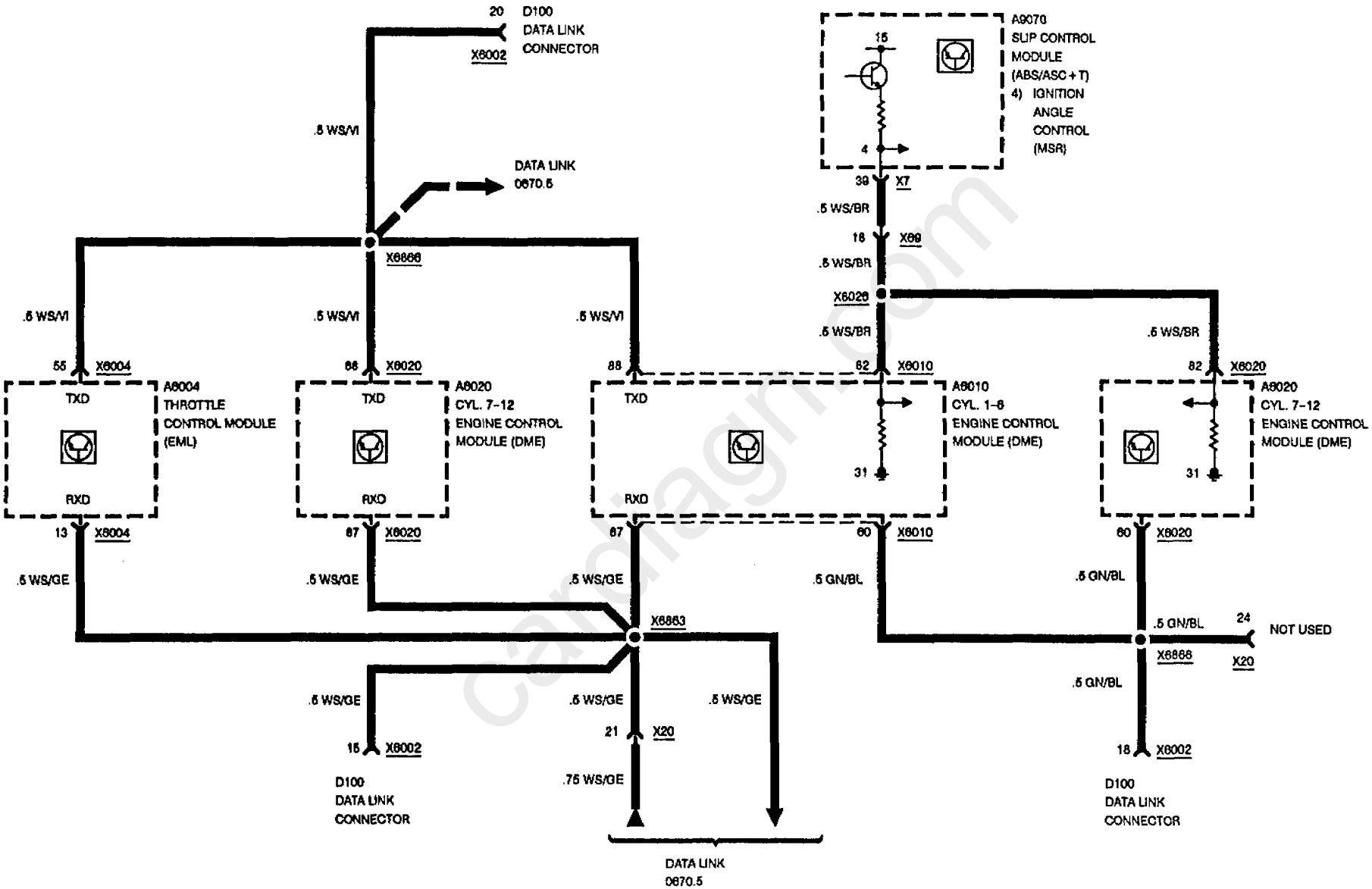
CYL. 1-6 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

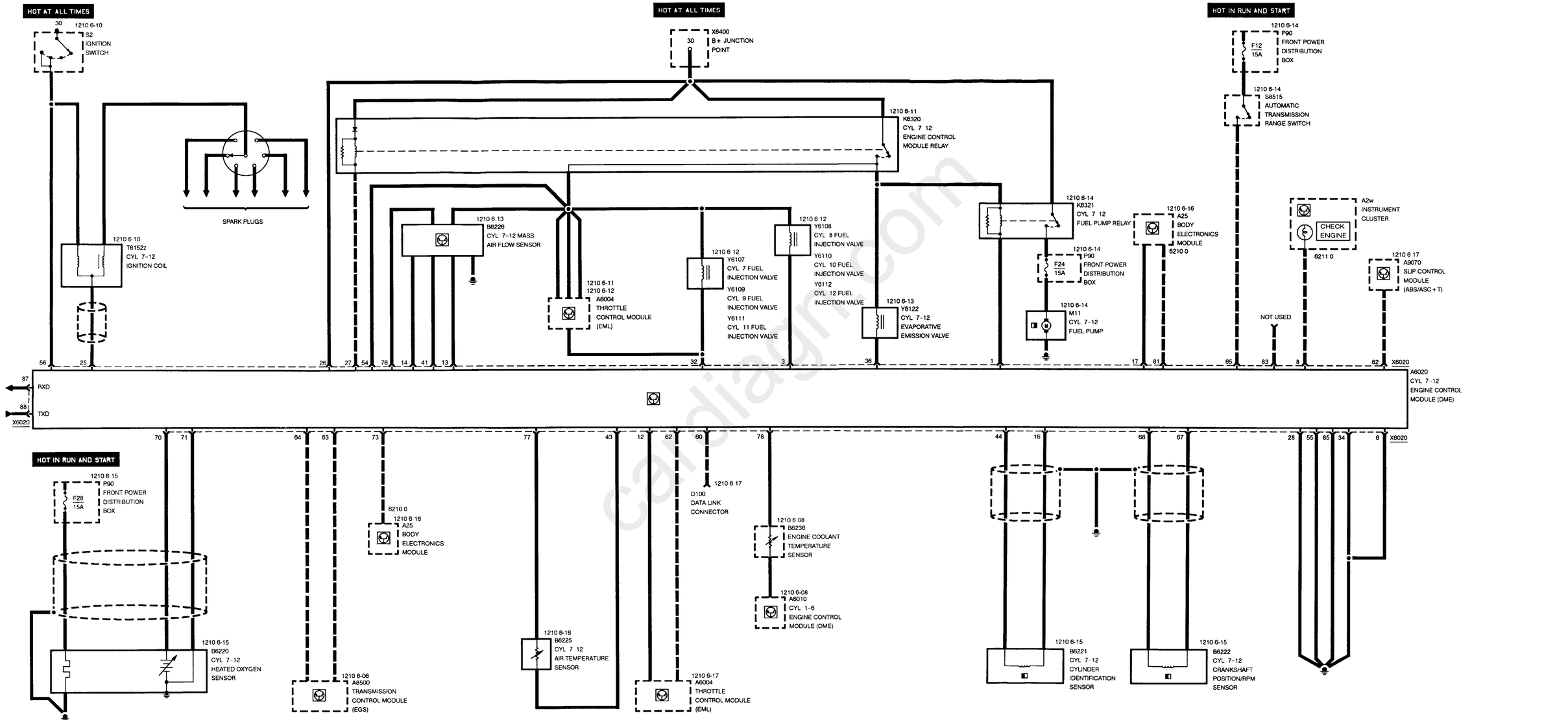
CYL. 1-6 ENGINE CONTROL MODULE



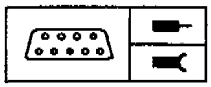
carDiagn.com

carclagn.com

12/94 — 1210 6b — 1994
12/94 — 1210 6b — 1994



cardiagn.com



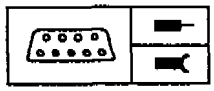
Pin Assignments

X6020

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay and crankshaft reference signal (TR)	Fuel pump relay and transmission control module (EGS) torque converter clutch
2		Not used	
3	A	Fuel injector valves cyl. 8 - 10 - 12	Fuel injector valves
4		Not used	
5		Not used	
6	M	Ground, fuel injector valve output stages	Ground point
7		Not used	
8	A	Service reminder indicator (US only)	Instrument cluster
9		Not used	
10		Not used	
11		Not used	
12	E	Wide open throttle signal (VL)	Electronic throttle control module (EML)
13	A	Free combustion	Mass air flow sensor
14	M	Ground, mass air flow sensor	Mass air flow sensor
15		Not used	
16	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection B)
17	A	Injection measuring signal (ti) (KVA signal)	Body electronics module (EKM)
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25	A	Ignition, terminal 1	Cyl. 7 - 12 ignition coil
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay	Engine control module relay terminal 85 (additionally, jumper to second engine control module relay)

E = Input, A = Output, M = Ground

ohdiagn.com

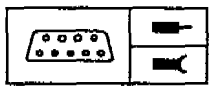


Pin Assignments

Pin	Type	Description/Function	Connection
28	M	Ground for electronics and shielding the sensors	Ground point
29		Not used	
30		Not used	
31		Not used	
32	A	Fuel injector valves cyl. 7 - 9 - 11	Fuel injector valves and electronic throttle control module (EML)
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injector valves)	Ground point
35		Not used	
36	A	Fuel evaporation purge valve	Fuel evaporation purge valve
37		Not used	
38		Not used	
39		Not used	
40		Not used	
41	E	Mass air flow sensor signal	Mass air flow sensor
42		Not used	
43	M	Ground for sensors	Temperature sensors
44	E	Cylinder identification sensor (ignition)	Cylinder identification sensor (connection A)
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
55	M	Ground, ignition	Ground point
56	E	Ignition, terminal 15	Ignition switch

E = Input, A = Output, M = Ground

cardiagn.com



Pin Assignments

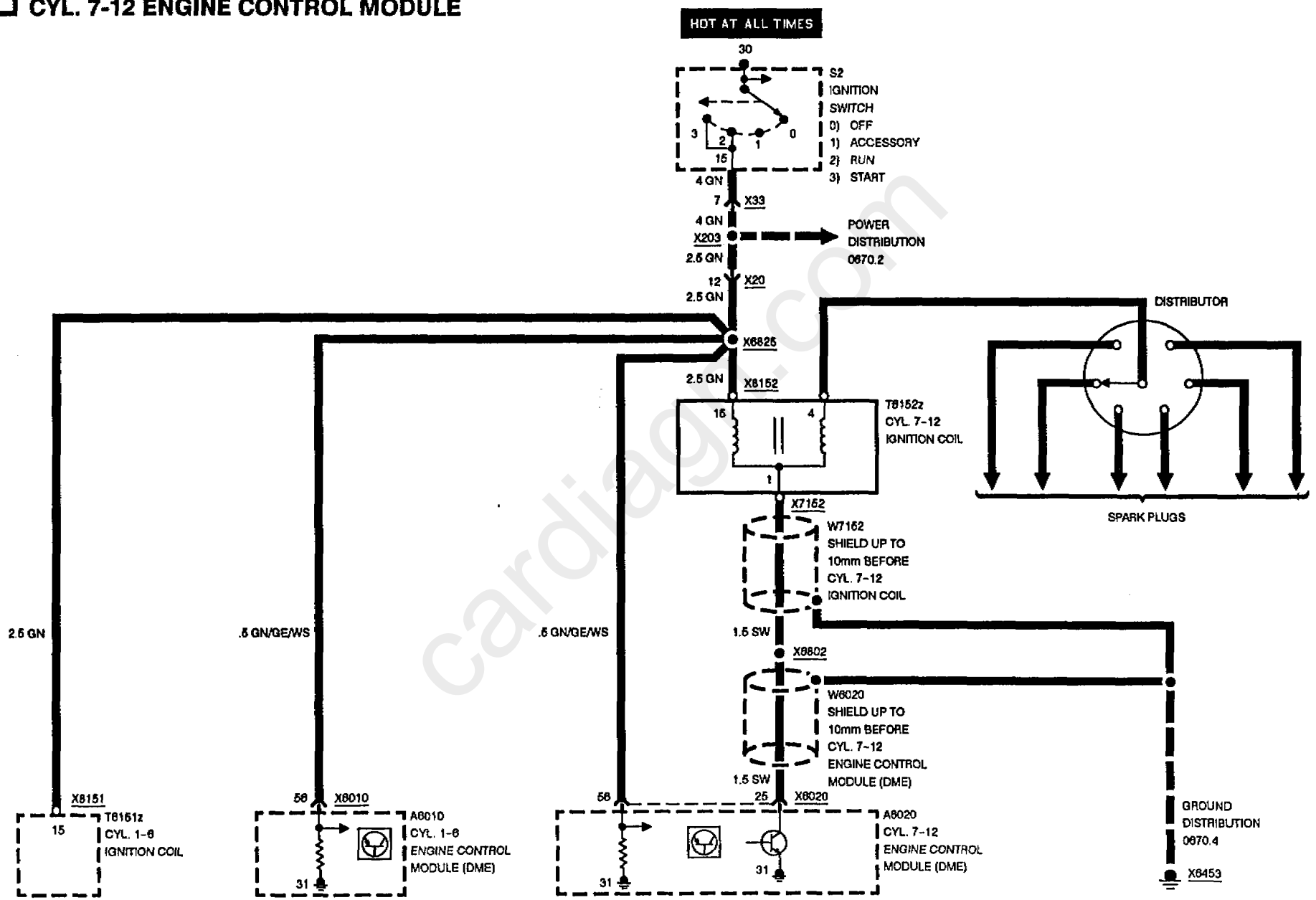
Pin	Type	Description/Function	Connection
57		Not used	
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	
62	E	Idle signal (LL)	Electronic throttle control module (EML)
63	E	Torque converter clutch (WK)	Transmission control module (EGS)
64	E	Ignition timing intervention	Transmission control module (EGS)
65	E	Park/Neutral sensing	Automatic transmission range switch
66		Not used	
67	E	Inductive pulse generator (connection B)	Pulse generator, crankshaft rpm sensor
68	E	Inductive pulse generator (connection A)	Pulse generator, crankshaft rpm sensor
69		Not used	
70	E	Oxygen sensor signal	Heated oxygen sensor
71	M	Ground, oxygen sensor	Heated oxygen sensor
72		Not used	
73	E	Speedometer signal	Body electronics module (EKM)
74		Not used	
75		Not used	
76	E	Idle CO-potentiometer	Mass air flow sensor
77	E	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	Antitheft signal	Body electronics module (EKM)
82	E	ASC ignition angle control	ASC + T control unit
83		Not used	
84		Not used	
85	E	Identifier, Cyl. 7 - 12 engine control module	Ground point
86		Not used	
87	E	RxD diagnostic data line	Data link connector
88	E/A	TxD diagnostic data line	Data link connector

E = Input, A = Output, M = Ground

cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

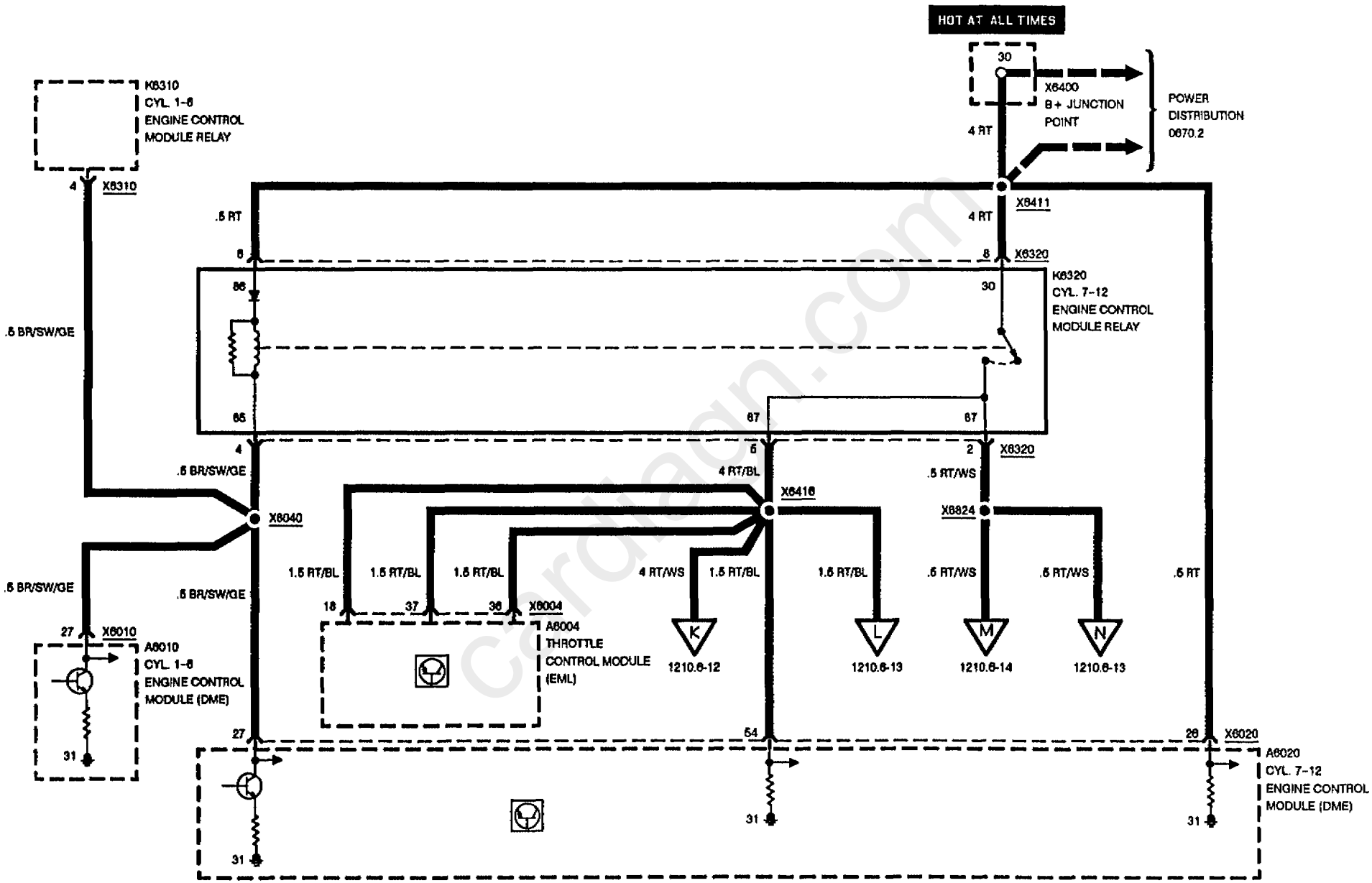
CYL. 7-12 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

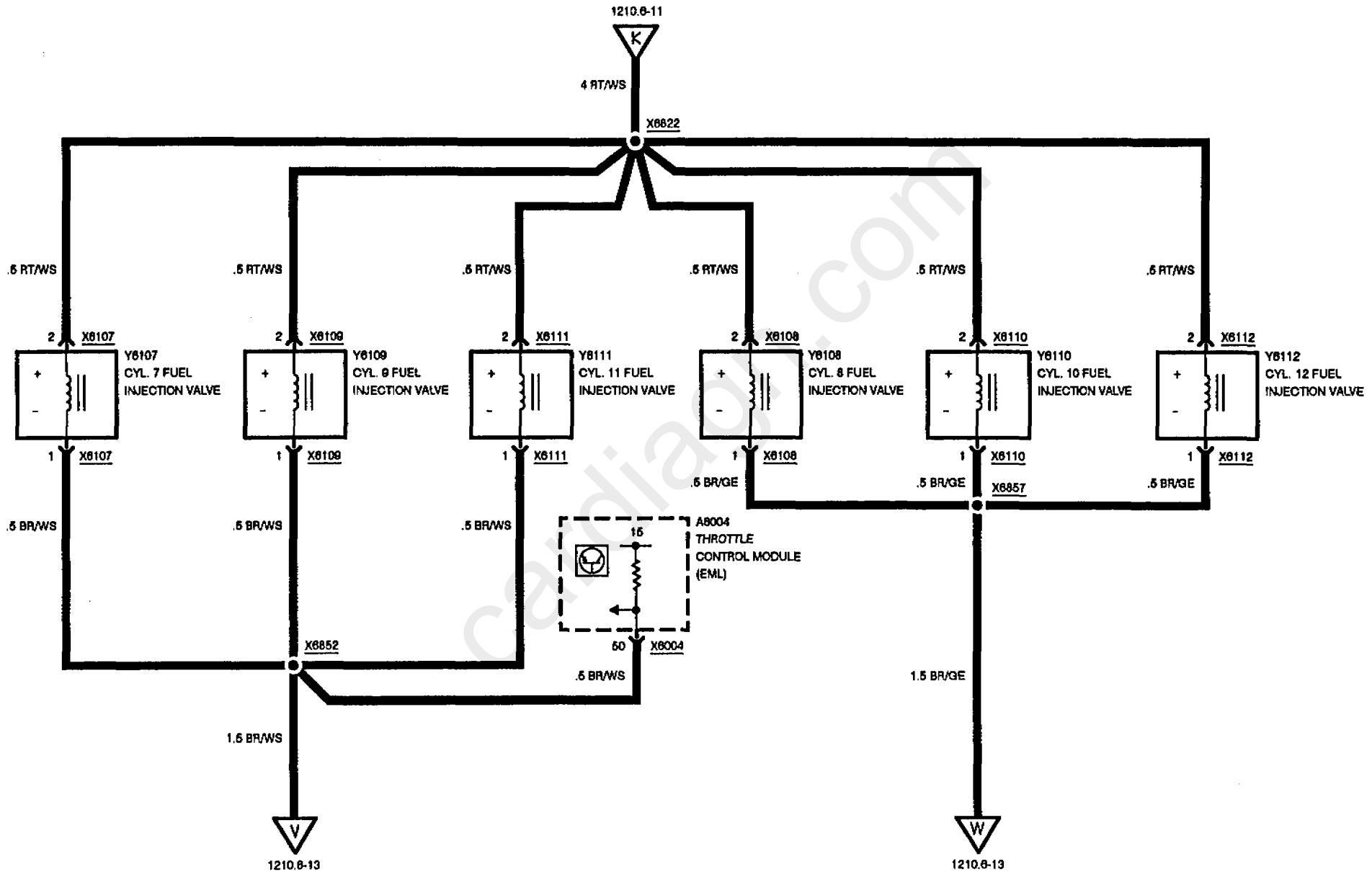
CYL. 7-12 ENGINE CONTROL MODULE



carlagan.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

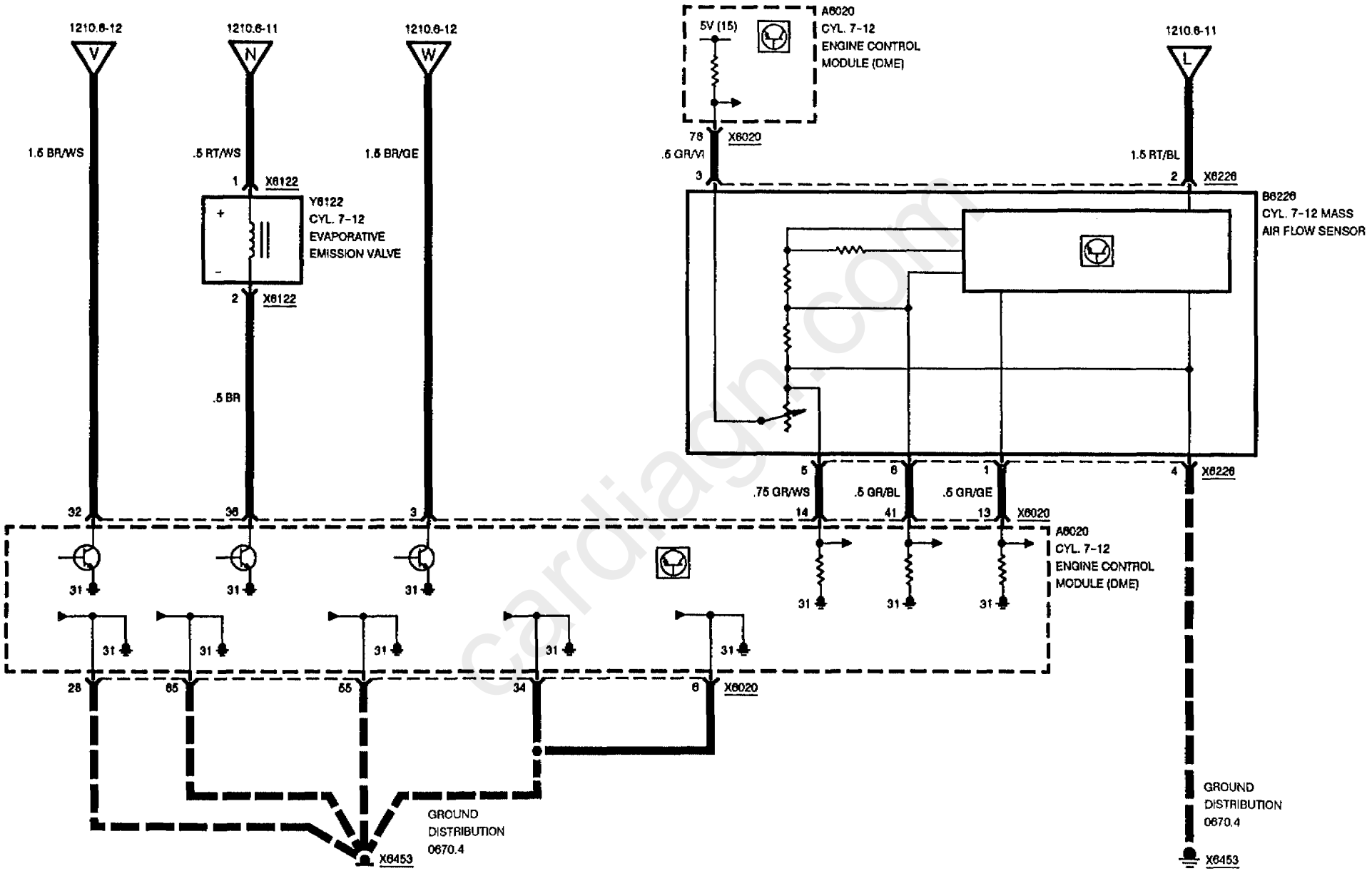
FUEL INJECTION VALVES



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

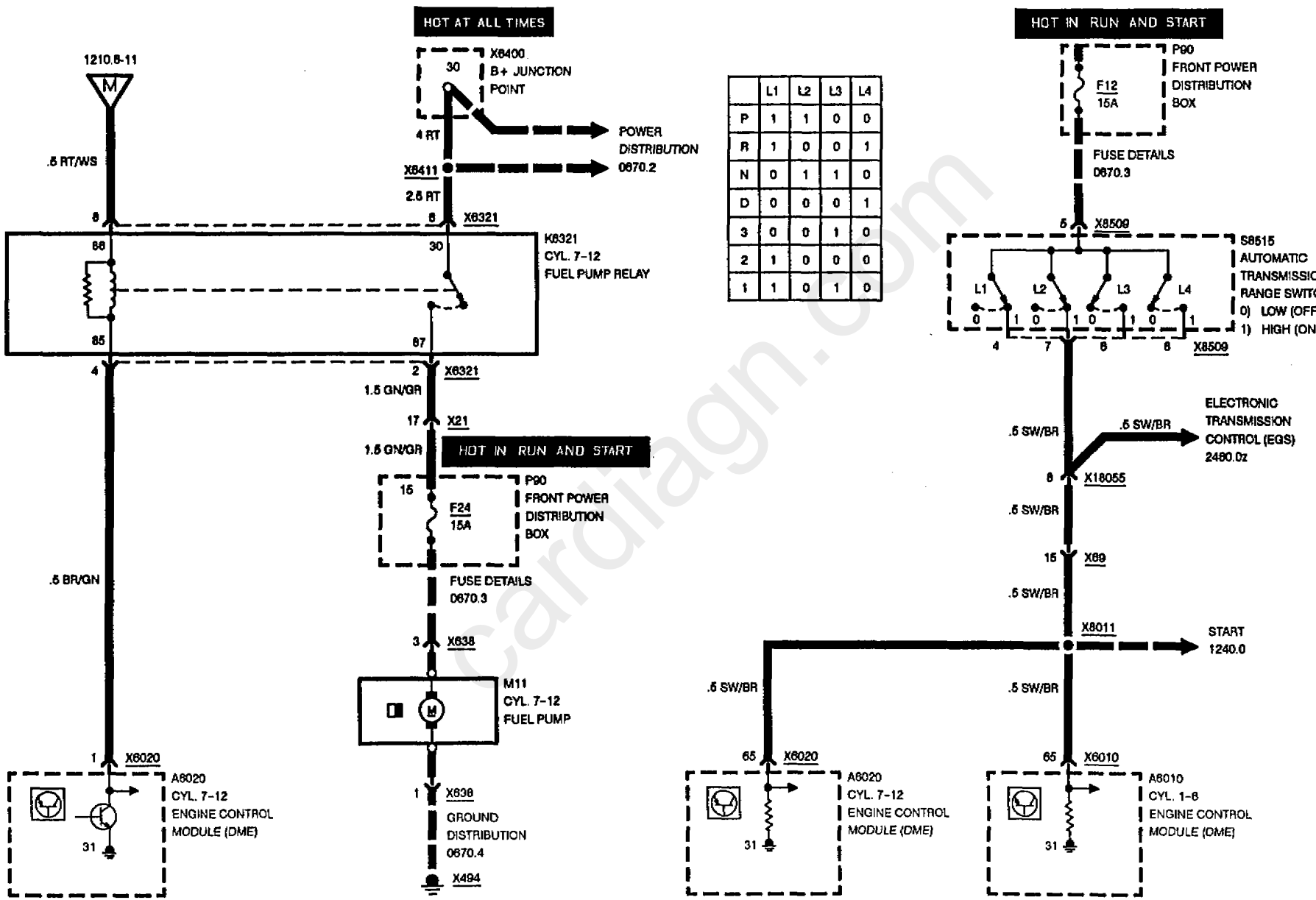
CYL. 7-12 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

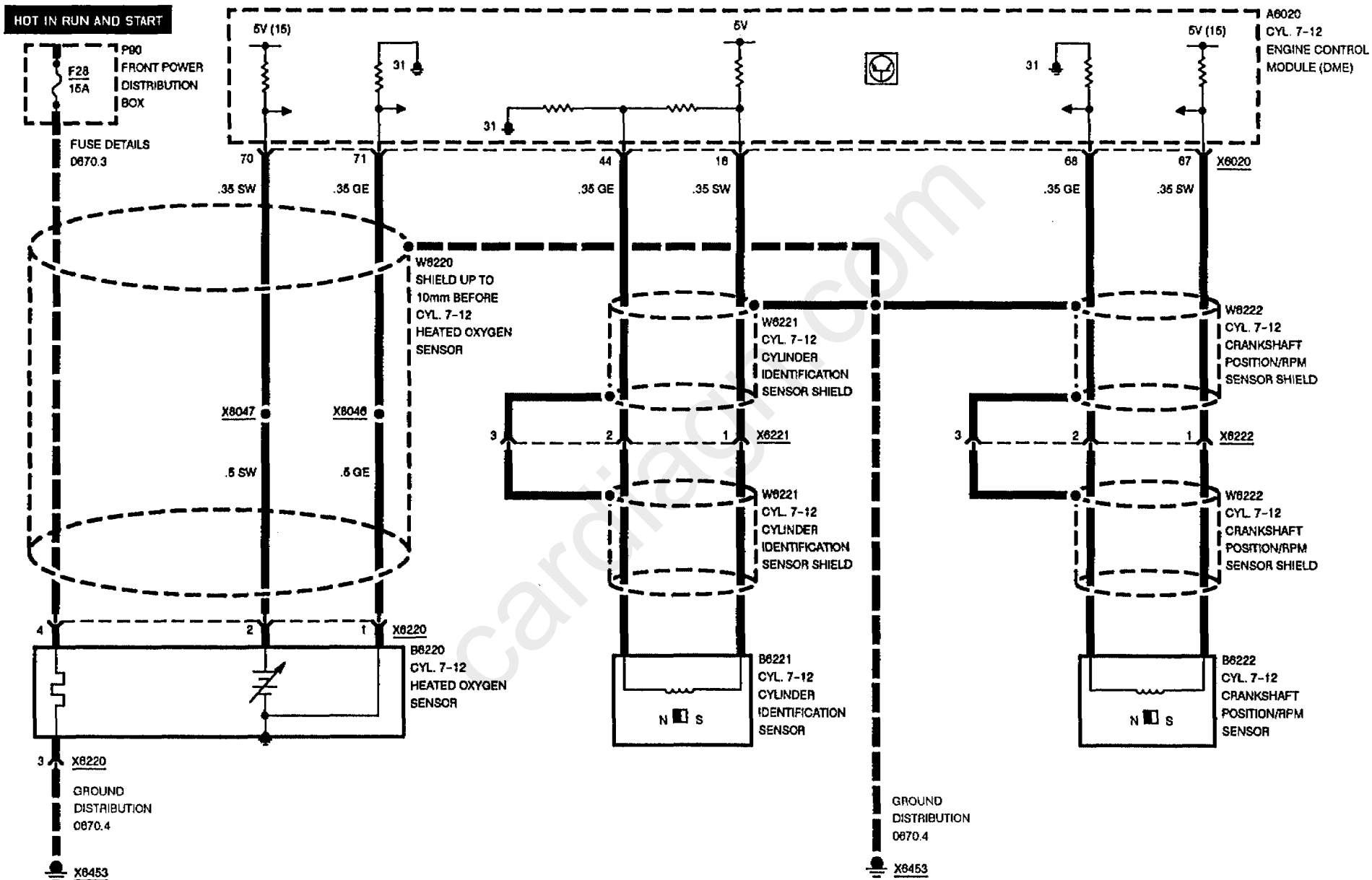
CYL. 7-12 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

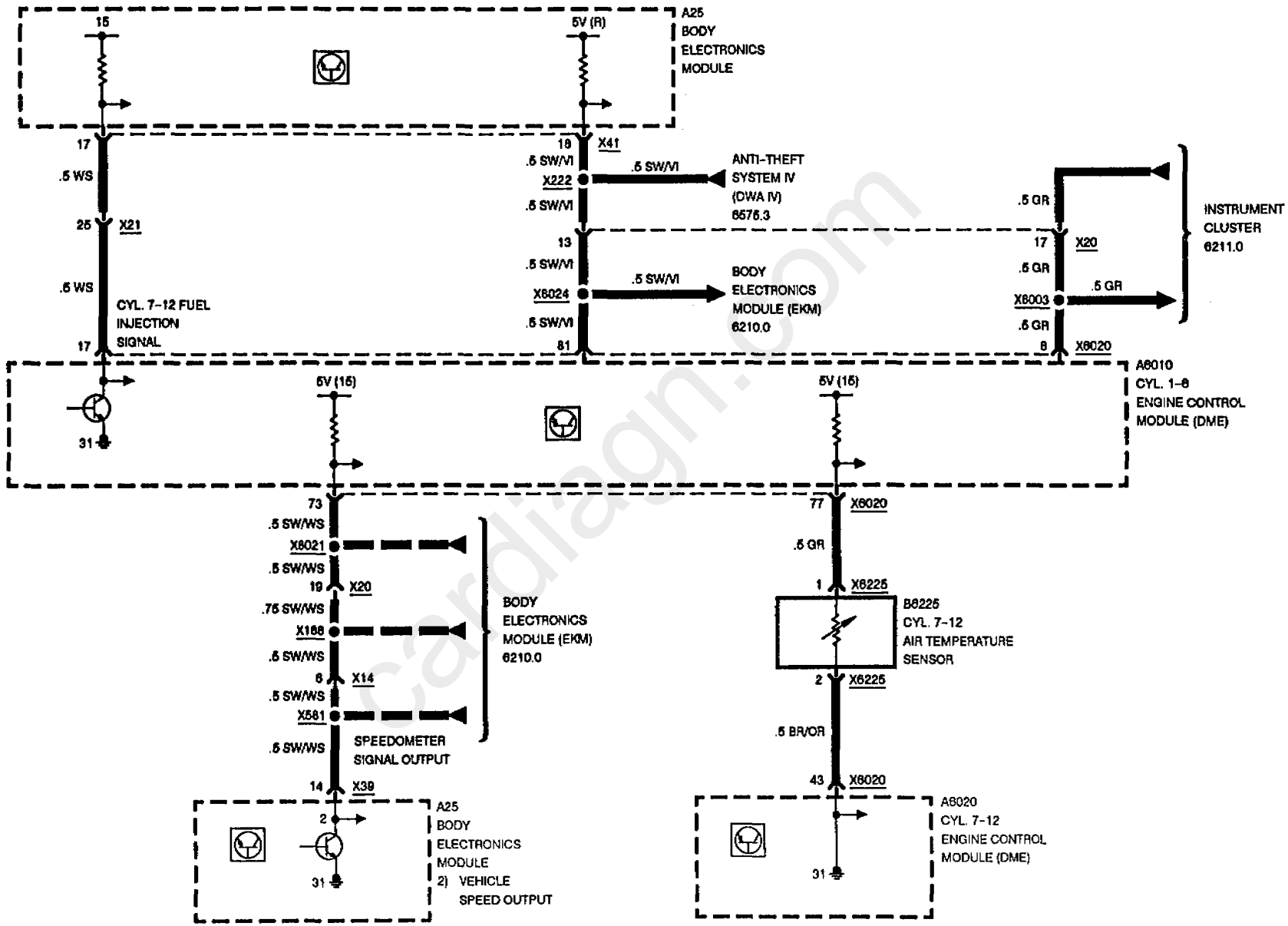
CYL. 7-12 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

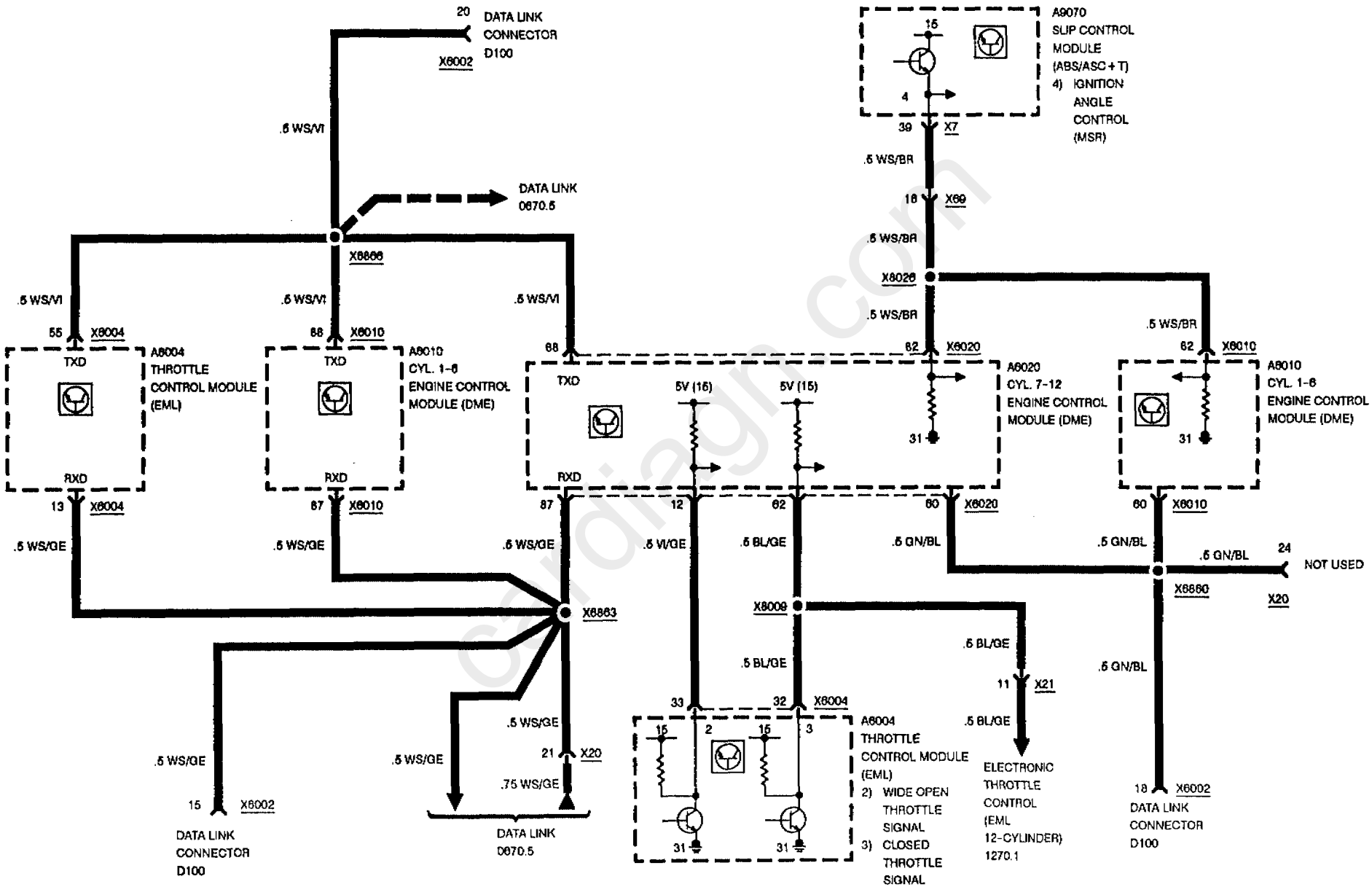
CYL. 7-12 ENGINE CONTROL MODULE



cardiagn.com

ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

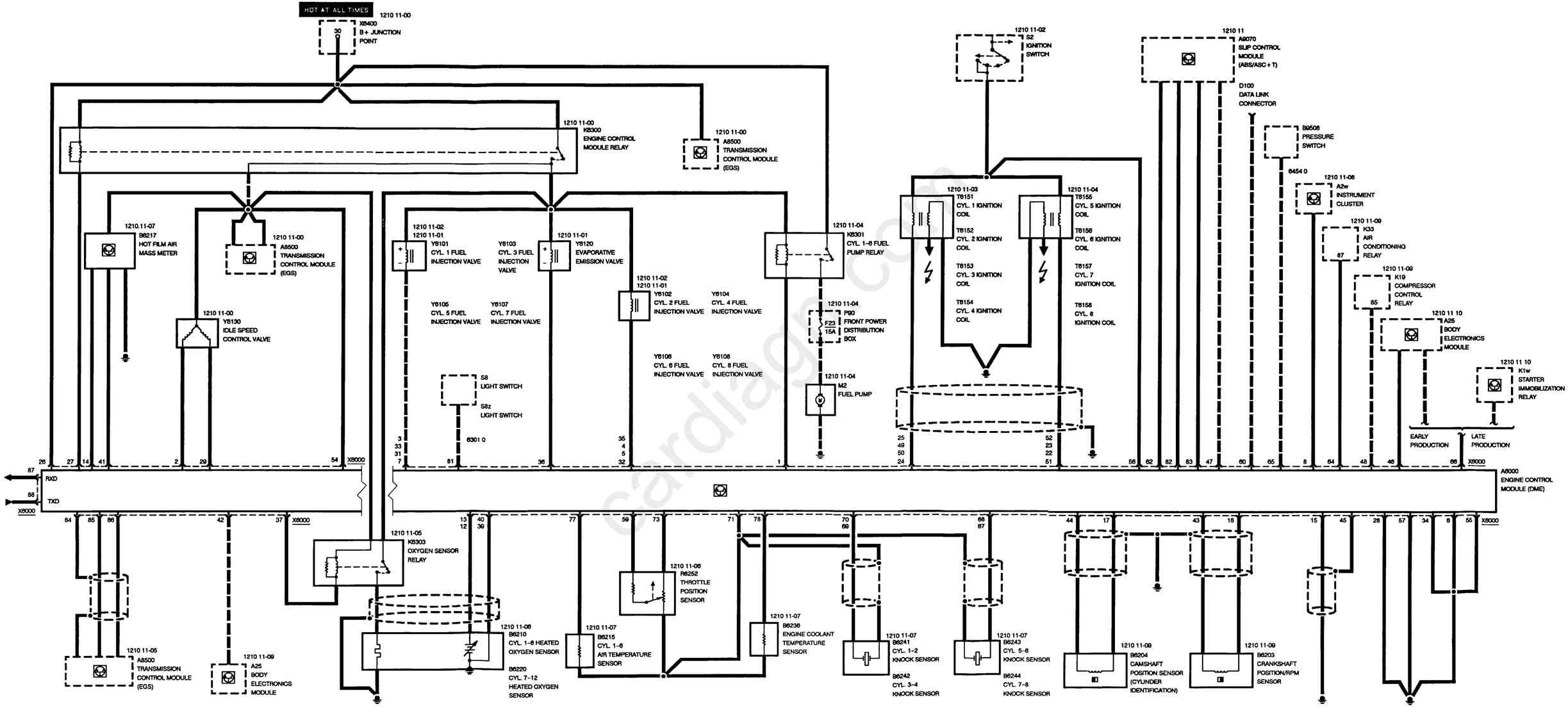
CYL. 7-12 ENGINE CONTROL MODULE



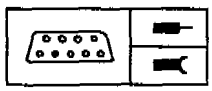
carldiagram.com

cardiagn.com

12/94 1210.11 1994
12/94 1210.11 1994



cardiagn.com



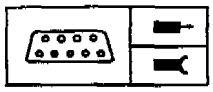
Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay	Cyl. 1 - 8 fuel pump relay, K6301
2	A	Air control valve closed	Idle speed control valve, Y6130
3	A	Cyl. 1 fuel injection valve	Cyl. 1 fuel injection valve, Y6101
4	A	Cyl. 4 fuel injection valve	Cyl. 4 fuel injection valve, Y6104
5	A	Cyl. 6 fuel injection valve	Cyl. 6 fuel injection valve, Y6106
6	M	Ground	Ground point, X6452
7	A	Cyl. 7 fuel injection valve	Cyl. 7 fuel injection valve, Y6107
8	A	"CHECK ENGINE"-lamp	Instrument cluster, A2
9		Not used	
10		Not used	
11		Not used	
12	E	Signal Cyl. 5 - 8 heated oxygen sensor	Cyl. 5 - 8 heated oxygen sensor, B6220
13	E	Signal Cyl. 1 - 4 heated oxygen sensor	Cyl. 1 - 4 heated oxygen sensor, B6210
14	M	Ground from mass air flow sensor	Mass air flow sensor, B6206
15	M	Injection signal	Resistor, R6240
16	E	Signal crankshaft/RPM	Crankshaft position/RPM sensor, B6203
17	E	Signal camshaft position	Camshaft position sensor, B6201
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22	A	Cyl. 7 ignition signal	Cyl. 7 ignition coil, T6157
23	A	Cyl. 6 ignition signal	Cyl. 6 ignition coil, T6156
24	A	Cyl. 4 ignition signal	Cyl. 4 ignition coil, T6154
25	A	Cyl. 1 ignition signal	Cyl. 1 ignition coil, T6151
26	E	Continuous plus supply terminal 30	Front power distribution box
27	A	Signal to engine control module relay	Engine control module relay, K6300
28	M	Ground	Ground point, X6452
29	A	Air control valve open	Idle speed control valve, Y6130
30		Not used	

E = Input, A = Output, M = Ground

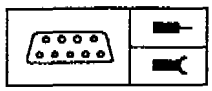
cardiagn.com



Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Cyl. 5 fuel injection valve	Cyl. 5 fuel injection valve, Y6105
32	A	Cyl. 8 fuel injection valve	Cyl. 8 fuel injection valve, Y6108
33	A	Cyl. 3 fuel injection valve	Cyl. 3 fuel injection valve, Y6103
34	M	Ground	Ground point, X6452
35	A	Cyl. 2 fuel injection valve	Cyl. 2 fuel injection valve, Y6102
36	A	Signal evaporative emission	Evaporative emission valve, Y6120
37	A	Signal oxygen sensor heating	Oxygen sensor relay, K6303
38		Not used	
39	M	Ground Cyl. 5 - 8 oxygen sensor	Cyl. 5 - 8 heated oxygen sensor, B6220
40	M	Ground Cyl. 1 - 4 oxygen sensor	Cyl. 1 - 4 heated oxygen sensor, B6210
41	E	Signal air flow	Mass air flow sensor, B6206
42	E	Speed A-Signal	Instrument cluster, A2
43	M	Ground, camshaft RPM sensor	Crankshaft position/RPM sensor, B6203
44	M	Ground, crankshaft position sensor	Camshaft position sensor, B6201
45	M	Ground, ignition signal shield	Shield, ignition signal, R6240
46	A	Signal fuel consumption	Instrument cluster, A2
47	A	Signal engine speed (RPM)	Instrument cluster, A2
48	A	Signal climate compressor	Compressor control relay, K19
49	A	Cyl. 2 ignition signal	Cyl. 2 ignition coil, T6152
50	A	Cyl. 3 ignition signal	Cyl. 3 ignition coil, T6153
51	A	Cyl. 8 ignition signal	Cyl. 8 ignition coil, T6158
52	A	Cyl. 5 ignition signal	Cyl. 5 ignition coil, T6155
53		Not used	
54	E	Signal engine control module relay	Engine control module relay, K6300
55	M	Ground	Ground point, X6452
56	E	Plus supply terminal 15	Ignition switch, S2
57	M	Ground for sensors and shields	Ground point
58		Not used	
59	A	Plus supply (+5V)	Throttle position sensor, R6252
60	E	Programming voltage	Data link connector, D100
61		Not used	
62	E	Signal electronic throttle control	Slip control module (ABS/ASC+T), A9070

E = Input, A = Output, M = Ground



Pin Assignments

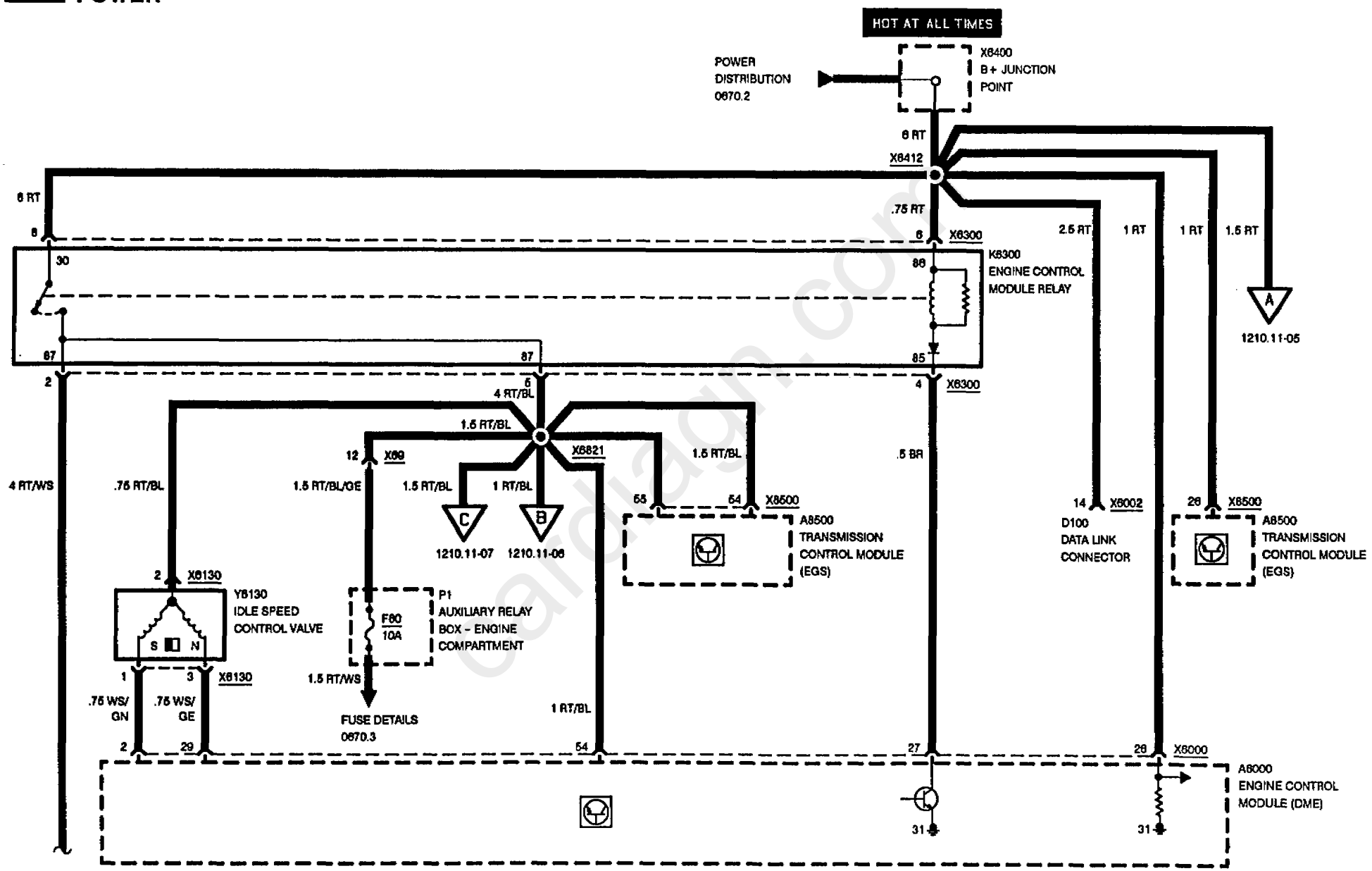
Pin	Type	Description/Function	Connection
63		Not used	
64	E	Signal AC ready	Air conditioning relay for engine control module, K33
65	E	Signal AC-compressor	Pressure switch, B8y
66	E	Antiheft signal (Early Production)	Body electronics module (EKM)
66	E	Antiheft signal (Late Production)	Starter Immobilization relay
67	E	Signal, Cyl. 7 - 8 knock sensor	Cyl. 7 - 8 knock sensor, B6244
68	E	Signal, Cyl. 5 - 6 knock sensor	Cyl. 5 - 6 knock sensor, B6243
69	E	Signal, Cyl. 3 - 4 knock sensor	Cyl. 3 - 4 knock sensor, B6242
70	E	Signal, Cyl. 1 - 2 knock sensor	Cyl. 1 - 2 knock sensor, B6241
71	M	Ground, knock sensors	Knock sensors
72		Not used	
73	E	Signal throttle position sensor	Throttle position sensor, R6252
74		Not used	
75		Not used	
76		Not used	
77	E	Signal intake air temperature	Engine intake air temperature sensor, B6215
78	E	Signal engine coolant temperature	Engine coolant temperature sensor, B6238
79		Not used	
80		Not used	
81	E	Signal headlights on	Light switch, S8
82	E	Engine coasting signal	Slip control module (ABS/ASC+T), A9070
83	E	Traction control regulation signal	Slip control module (ABS/ASC+T), A9070
84	A	CAN - Shield	Transmission control module A8500
85	E/A	CAN - L	Transmission control module, A8500
86	E/A	CAN - H	Transmission control module, A8500
87	A	Diagnosis	Data link connector, RxD
88	E/A	Diagnosis	Data link connector, TxD

E = Input, A = Output, M = Ground

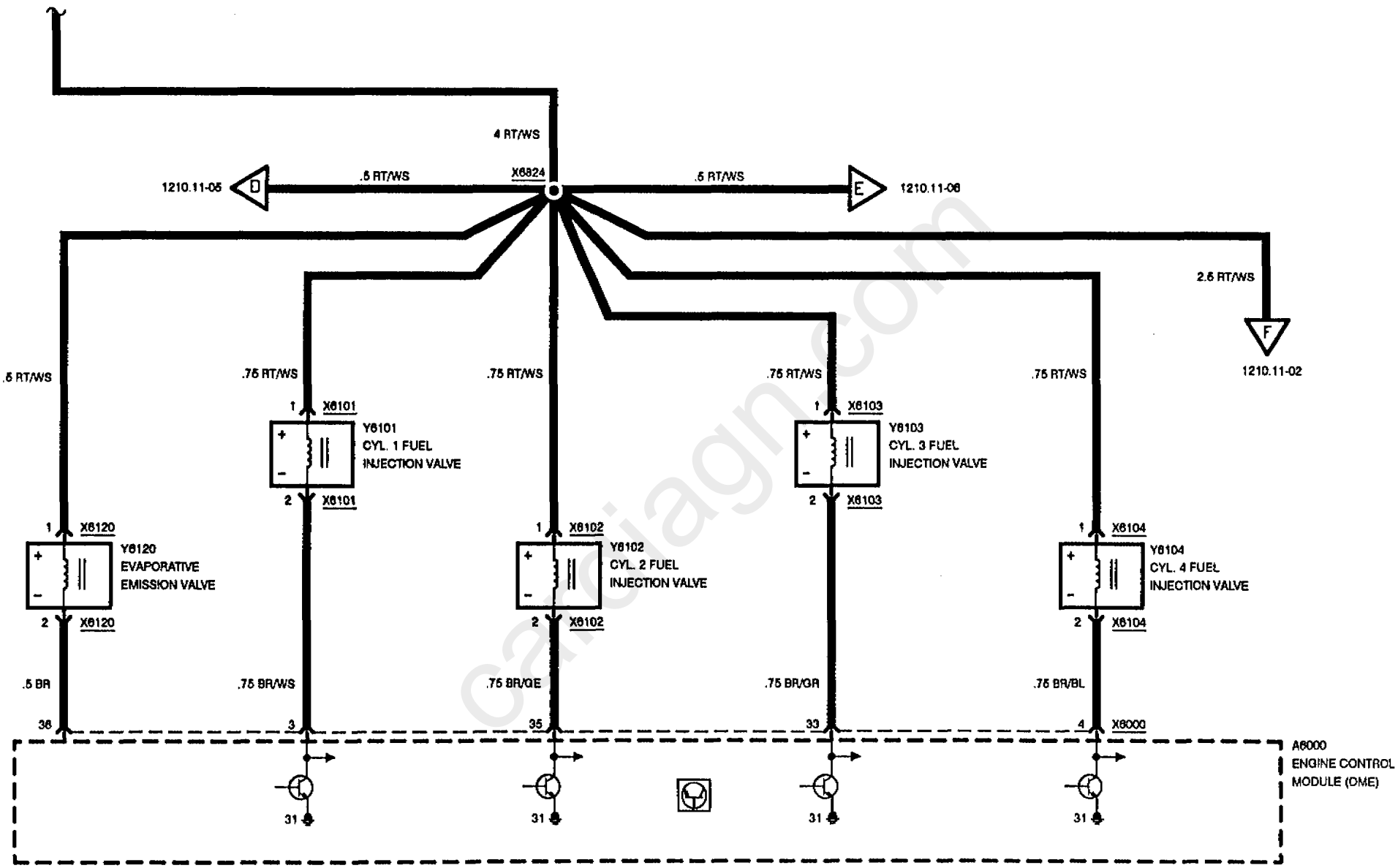
bmwfanatic.com

ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

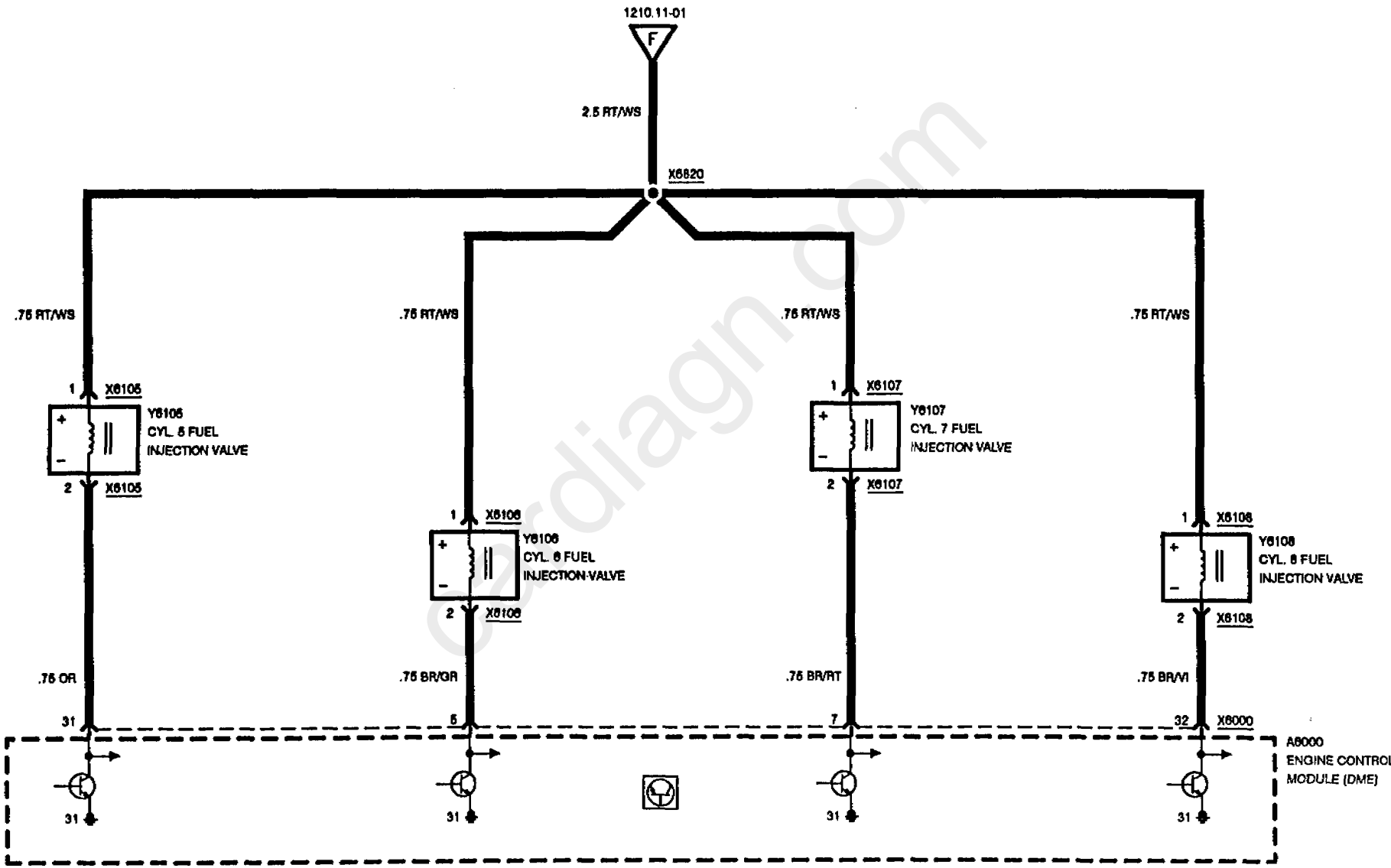
POWER



cardiagn.com



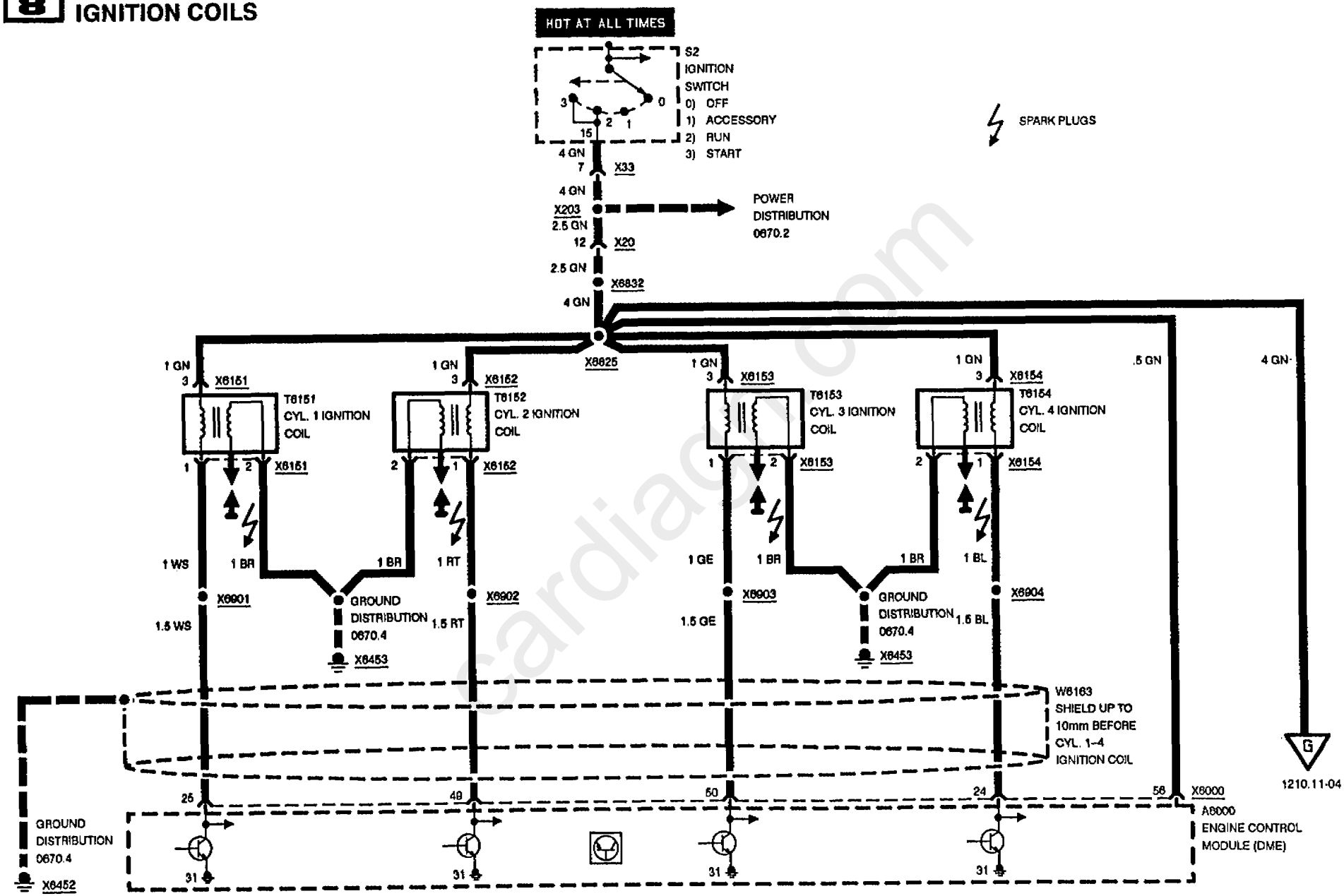
carDiagn.com


1210.11-01
F
2.5 RT/WS
X6820
.75 RT/WS
.75 RT/WS
.75 RT/WS
.75 RT/WS
1
X6105
Y6105
CYL. 5 FUEL
INJECTION VALVE
2
X6105
1
X6106
Y6106
CYL. 6 FUEL
INJECTION VALVE
2
X6106
1
X6107
Y6107
CYL. 7 FUEL
INJECTION VALVE
2
X6107
1
X6108
Y6108
CYL. 8 FUEL
INJECTION VALVE
2
X6108
.75 OR
.75 BR/GR
.75 BR/RT
.75 BR/VI
31
5
7
32
X6000
A6000
ENGINE CONTROL
MODULE (DME)
31
31
31
31

©rdiagn.com

ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

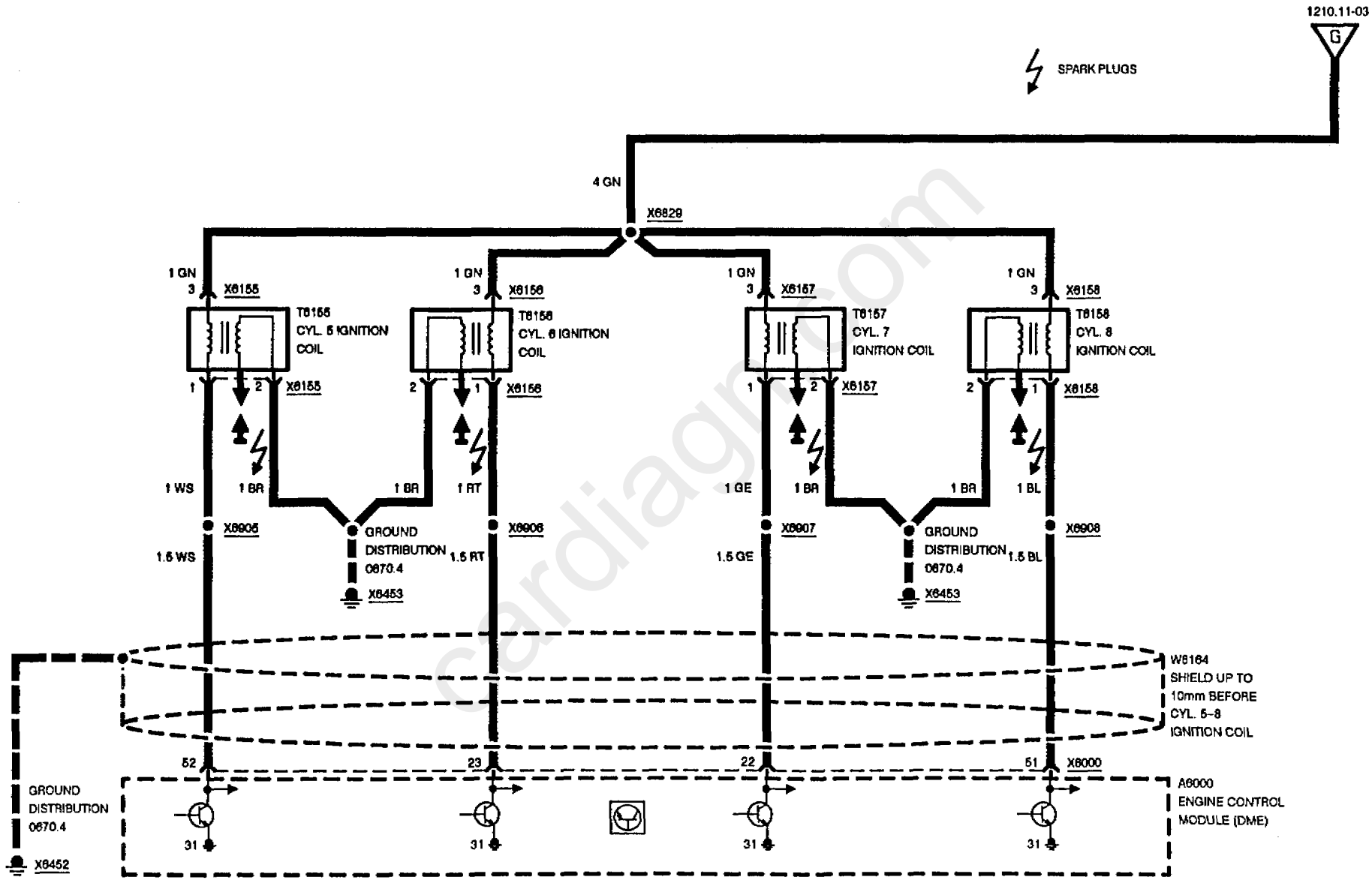
IGNITION COILS



cardiagn.com

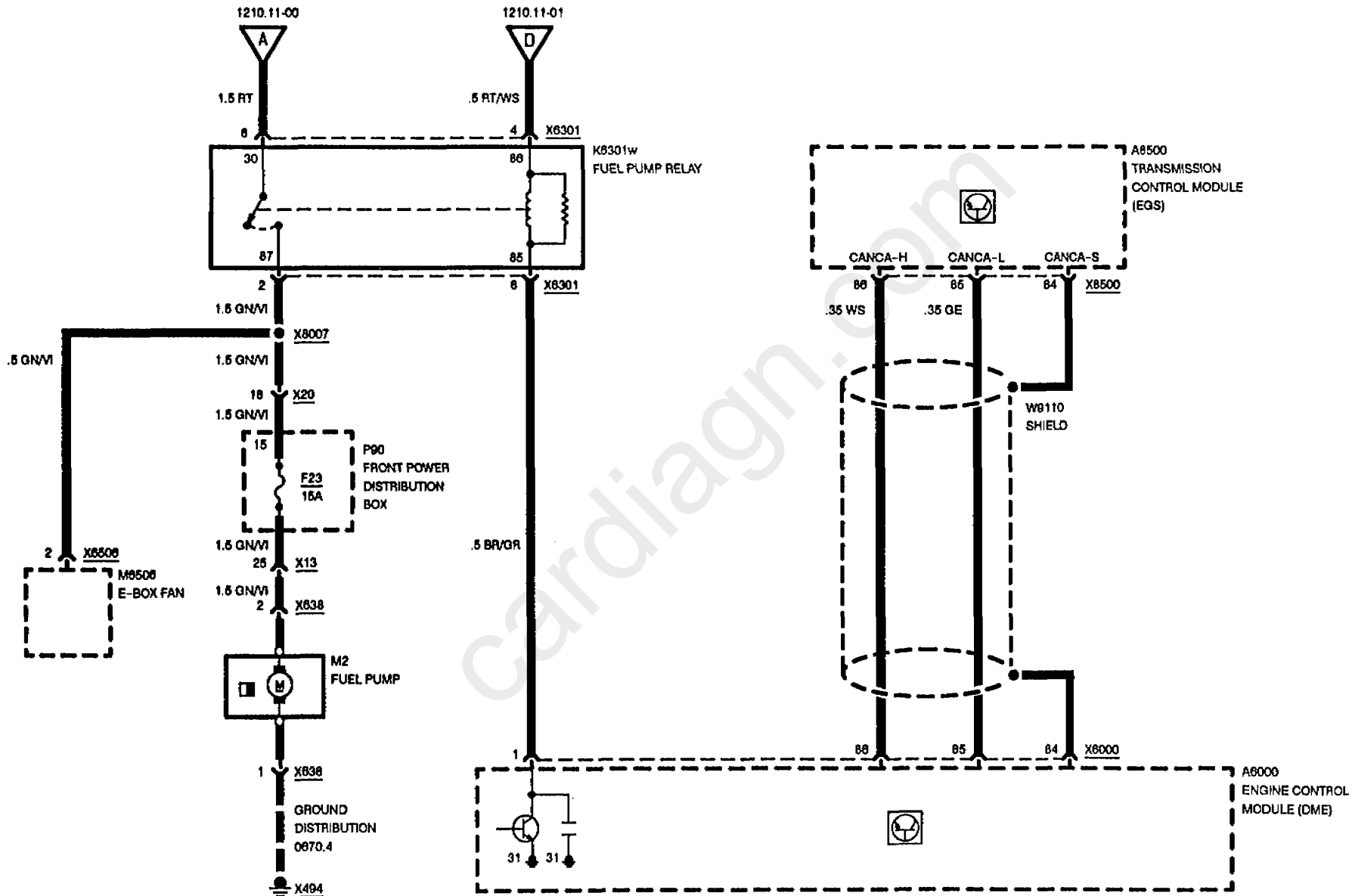
ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

IGNITION COILS



cardiagn.com

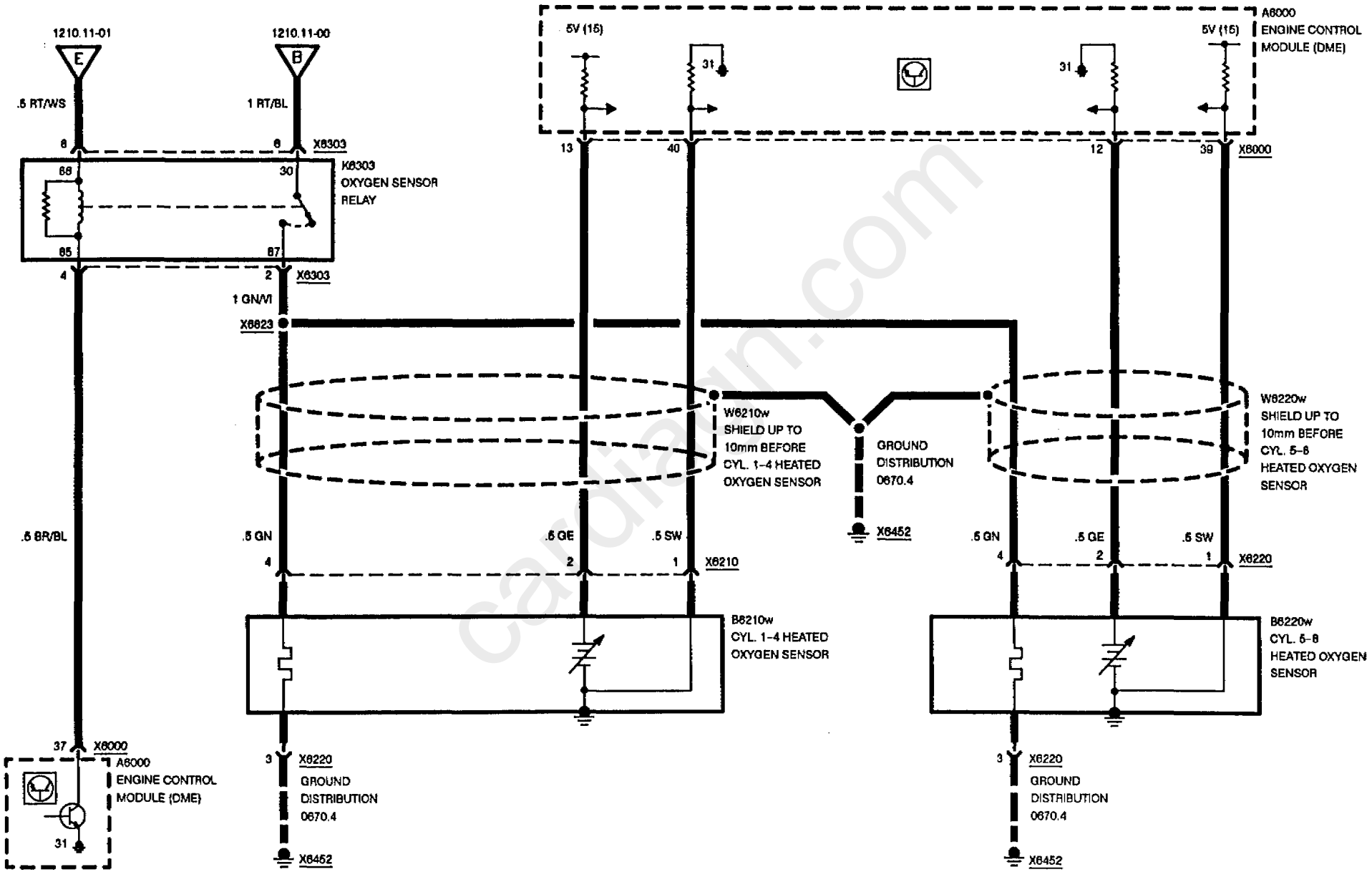
ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)



cardiagn.com

ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

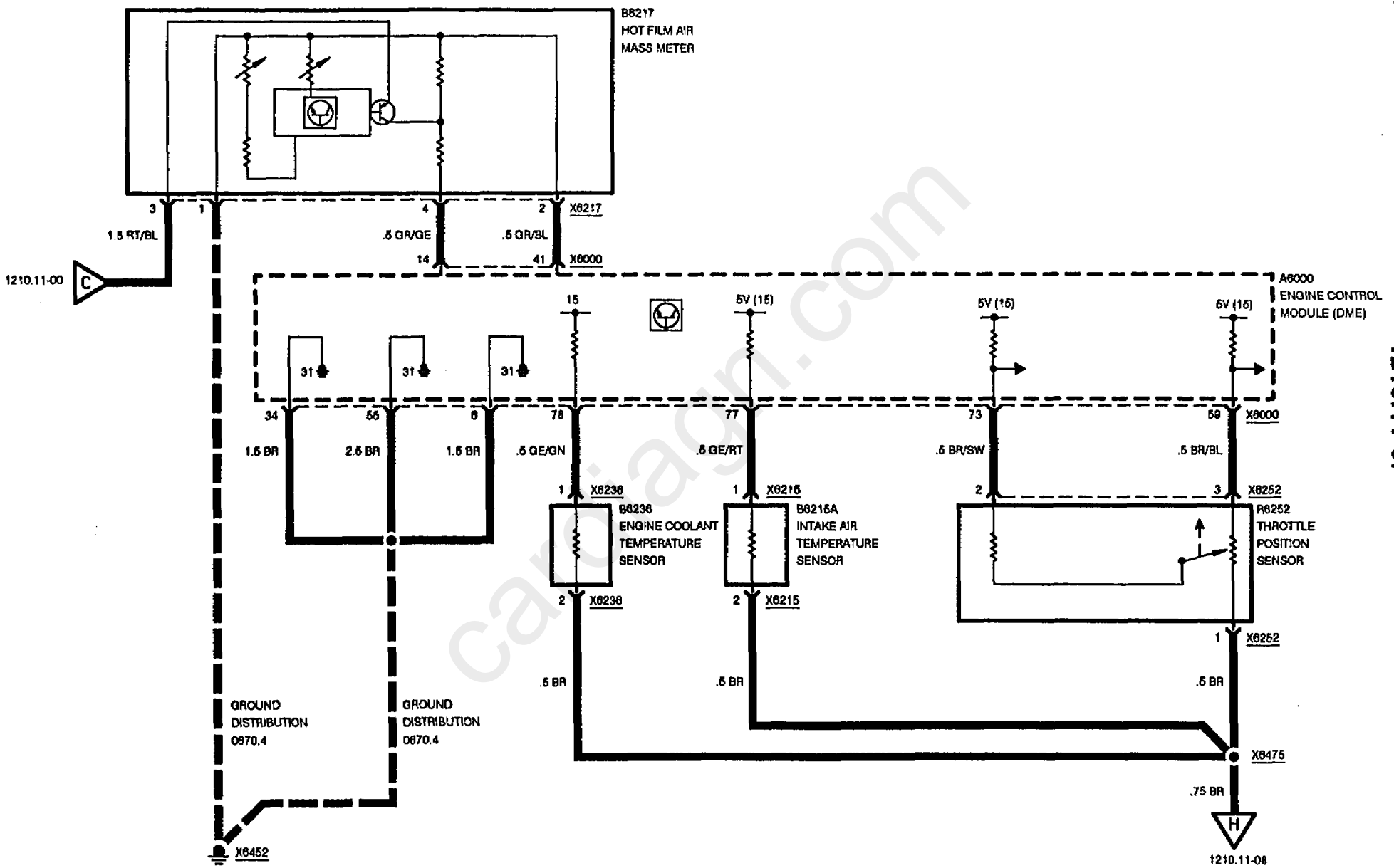
OXYGEN SENSORS



cardiagn.com

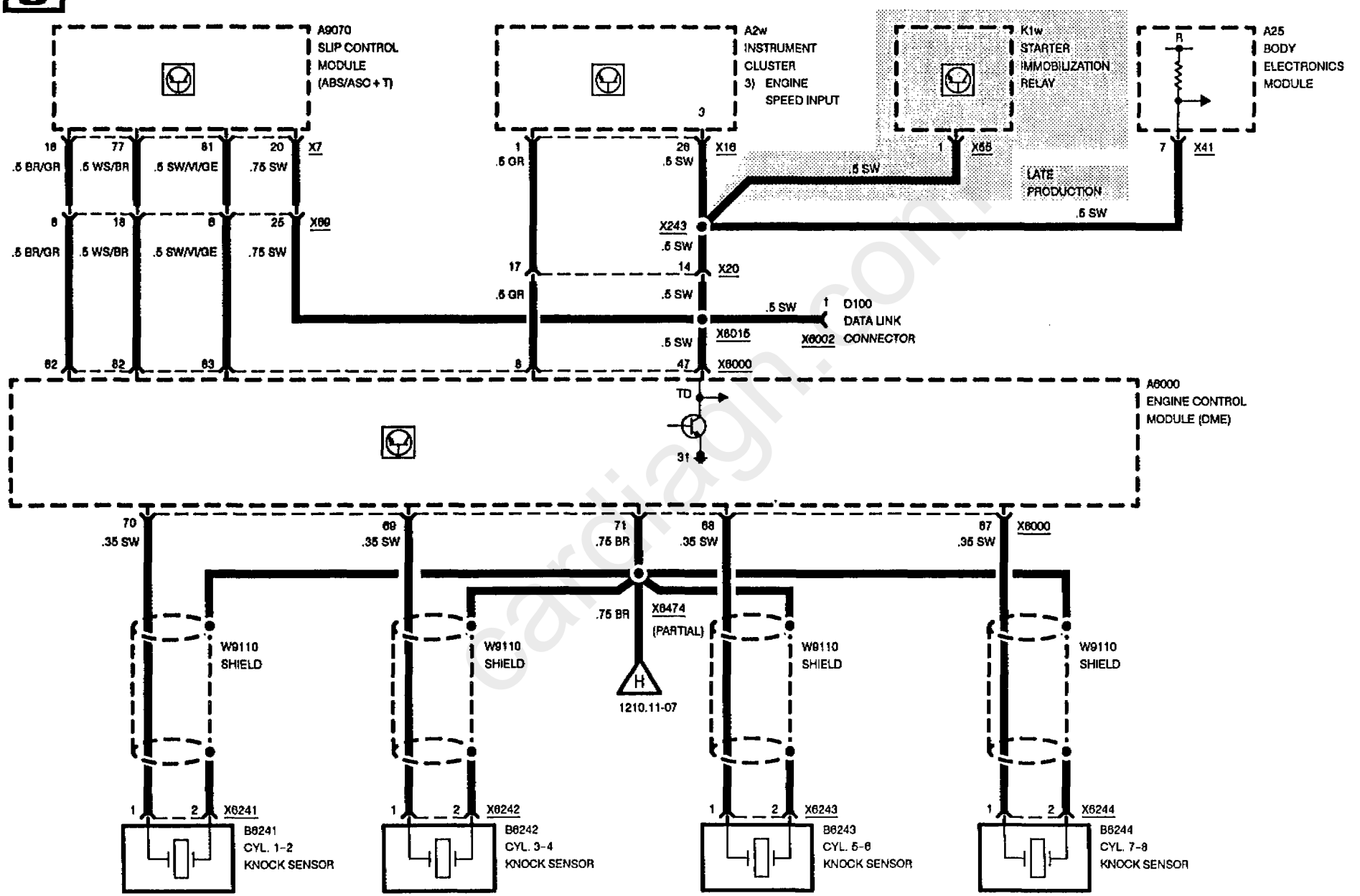
ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

SENSORS



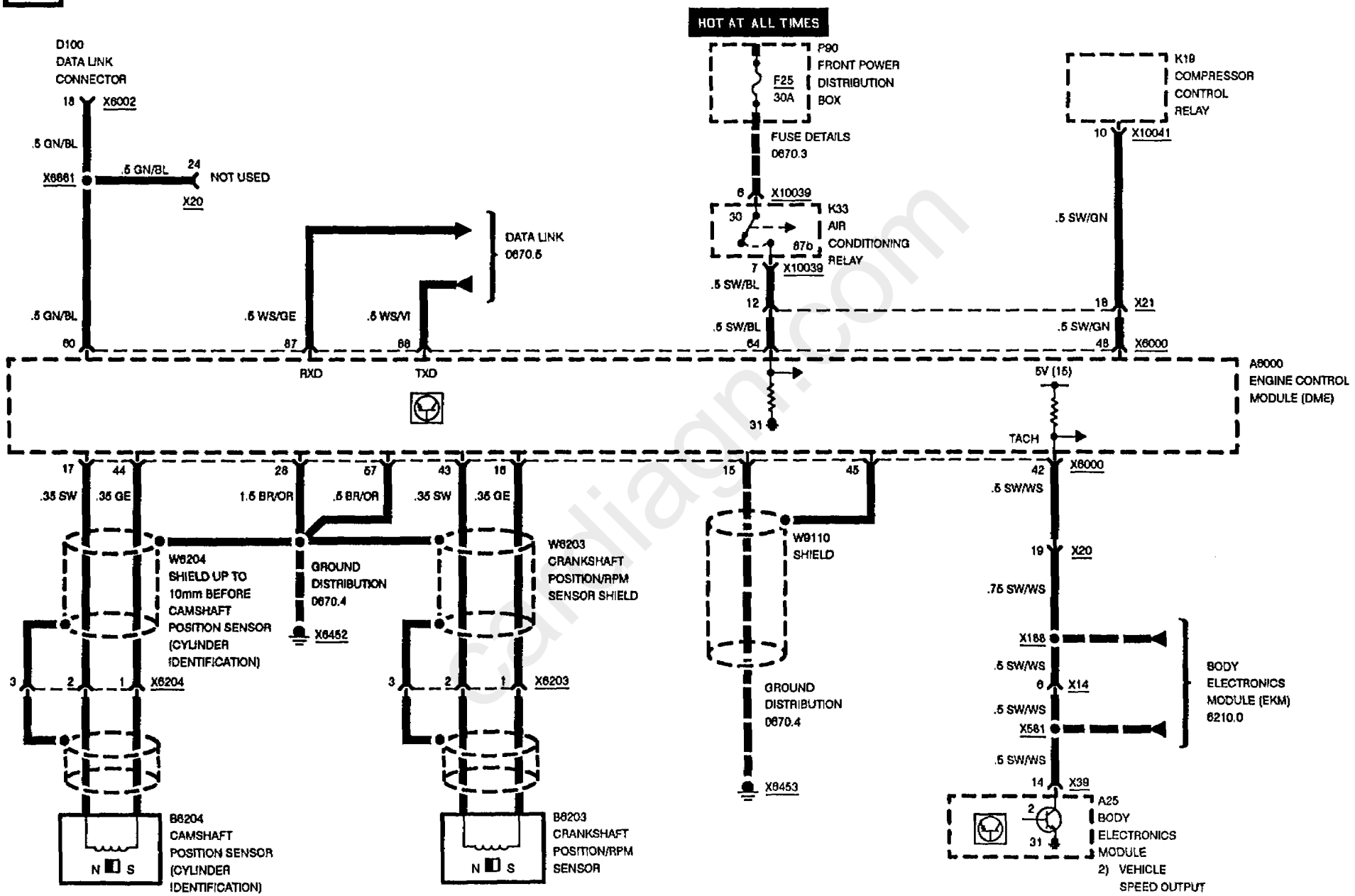
carcagn.com

ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)



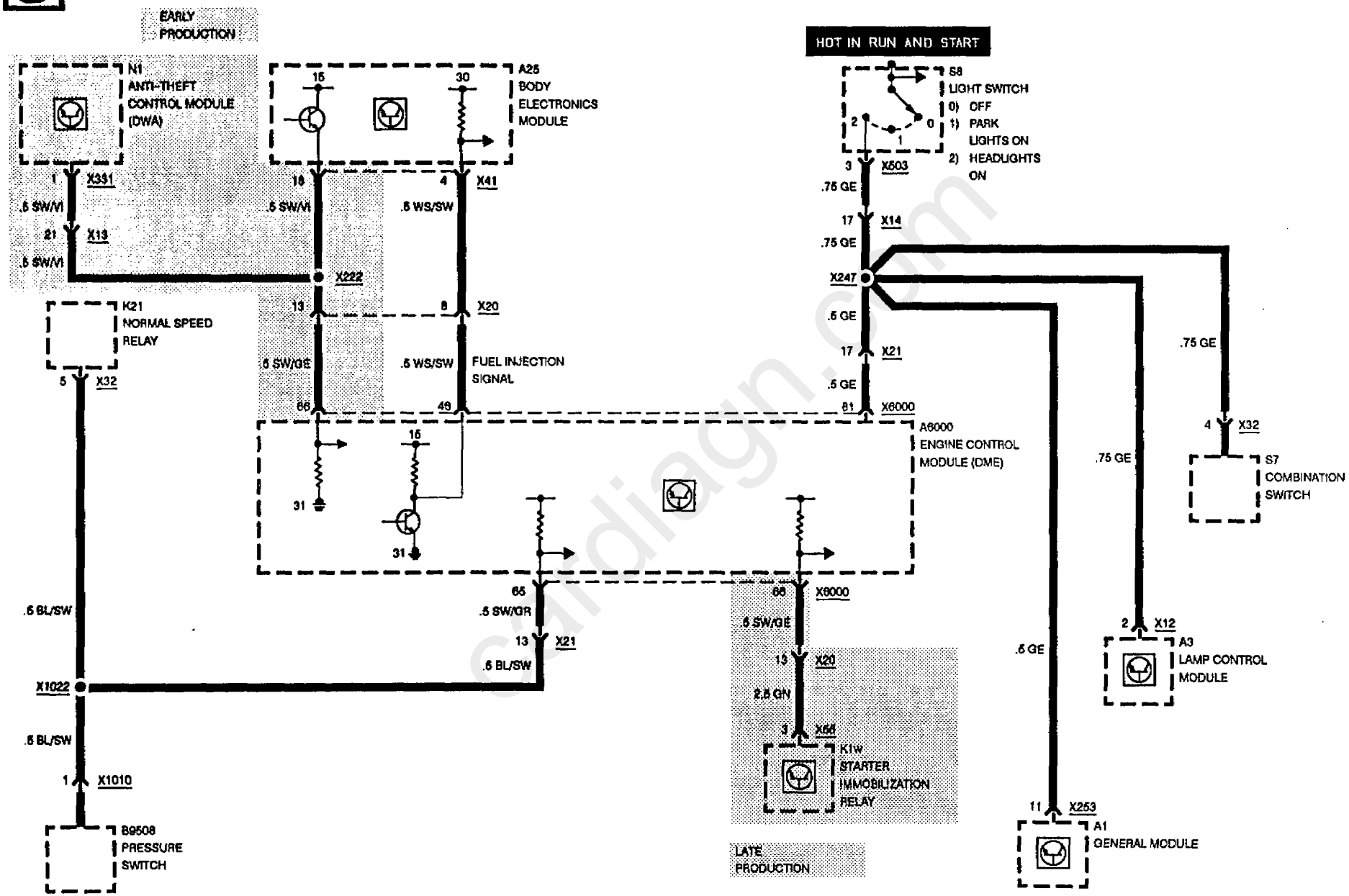
cardiagn.com

ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)



carDiagn.com

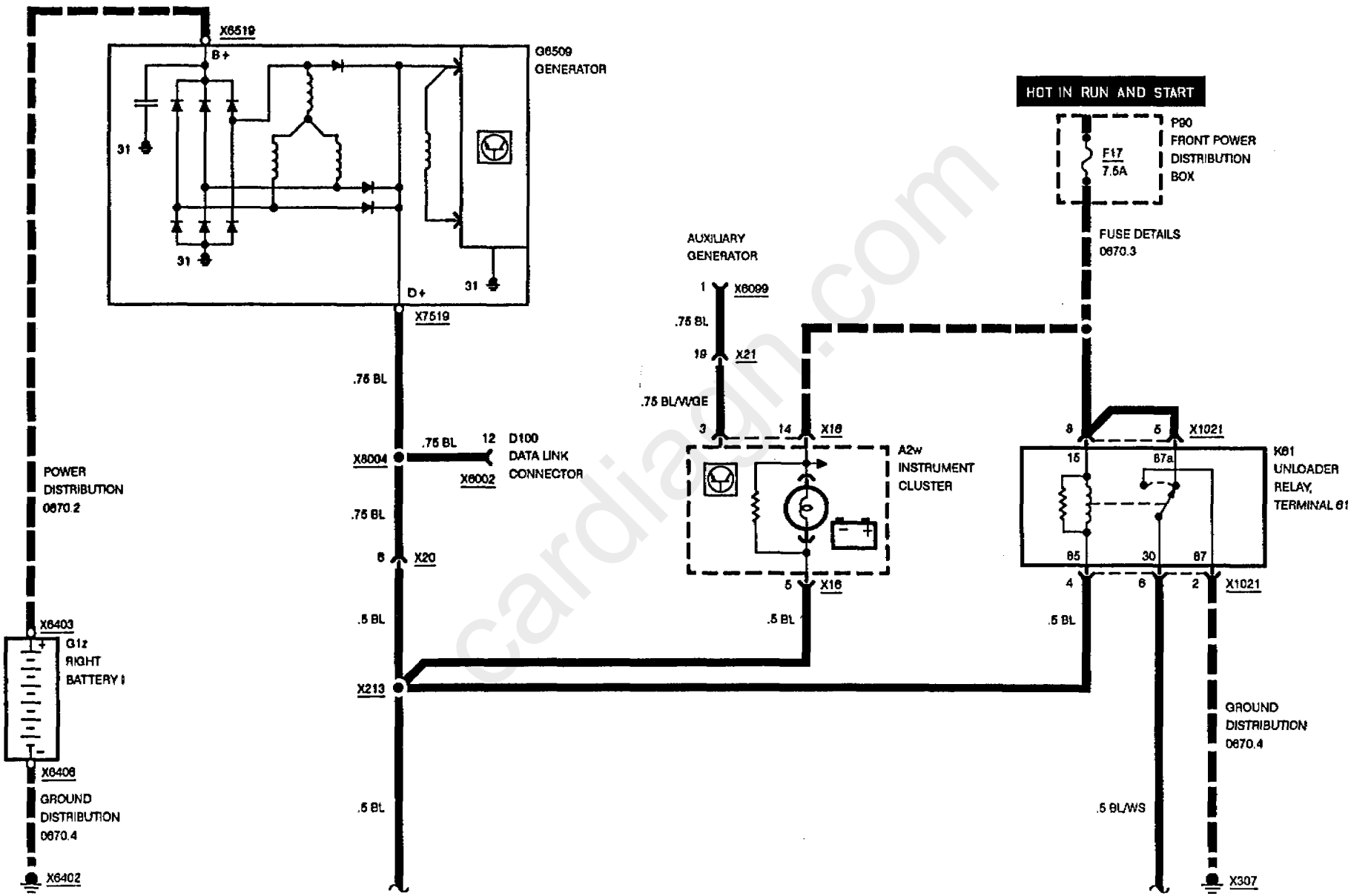
ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)



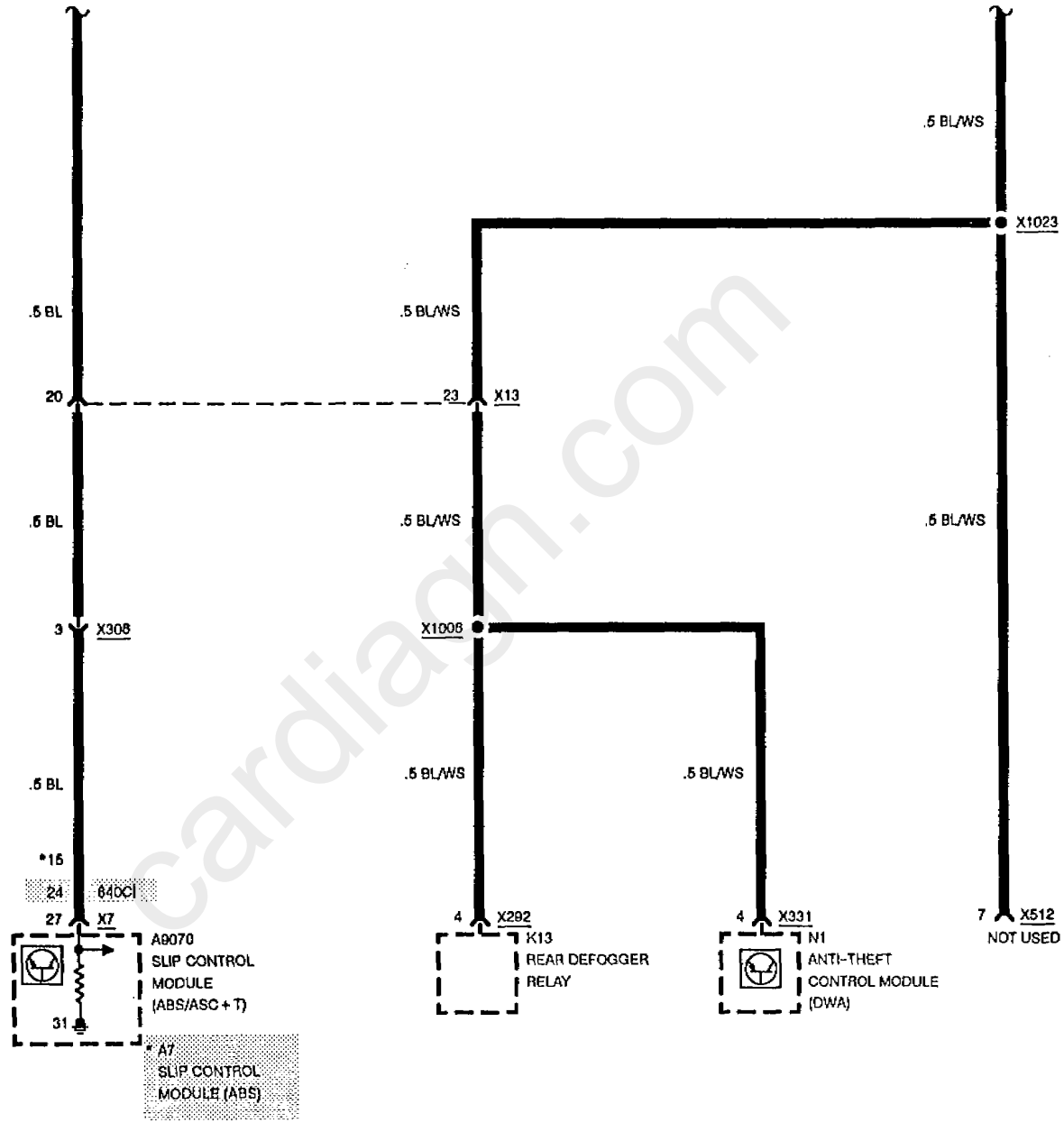
cardiagn.com

cardiagn.com

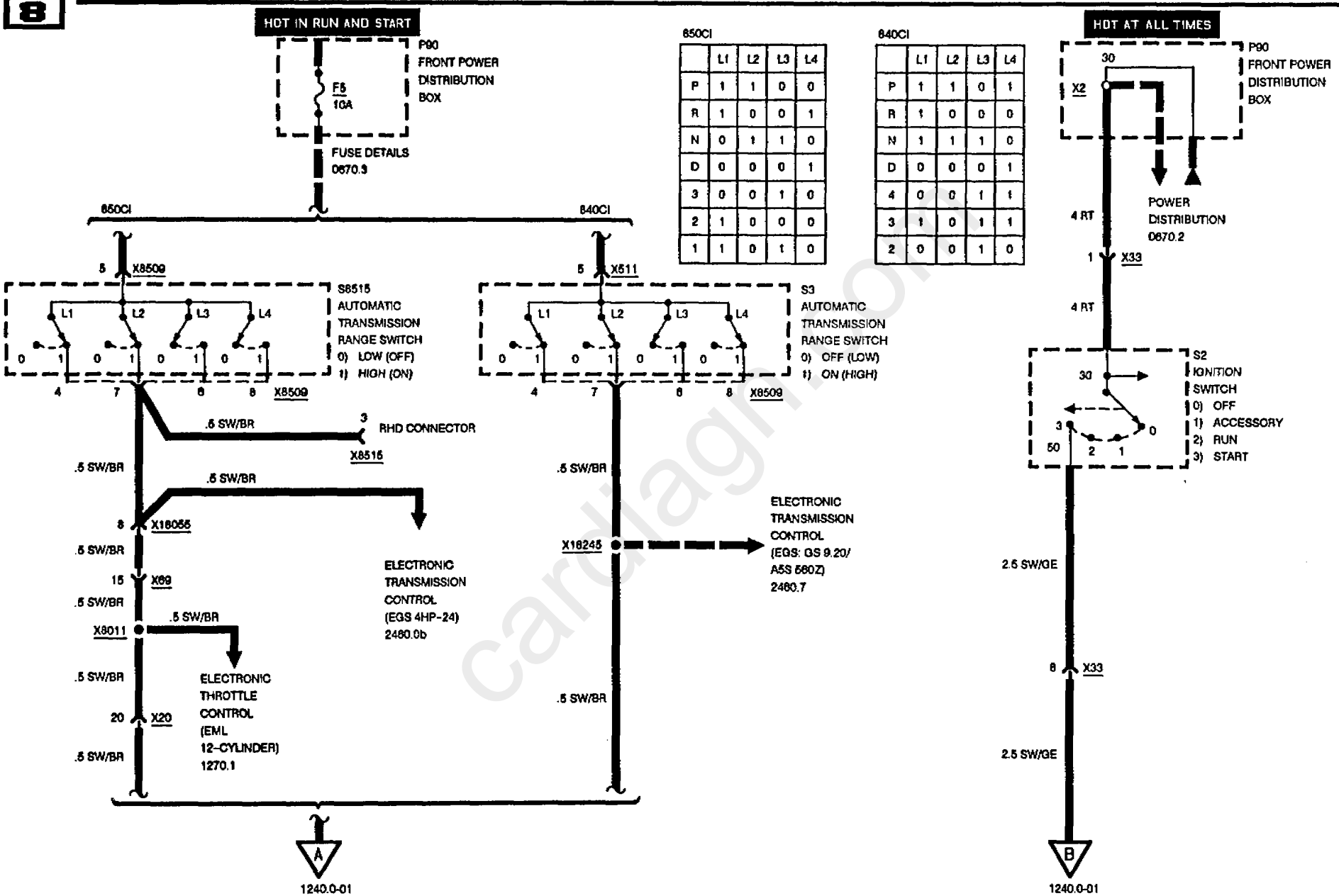
CHARGING SYSTEM



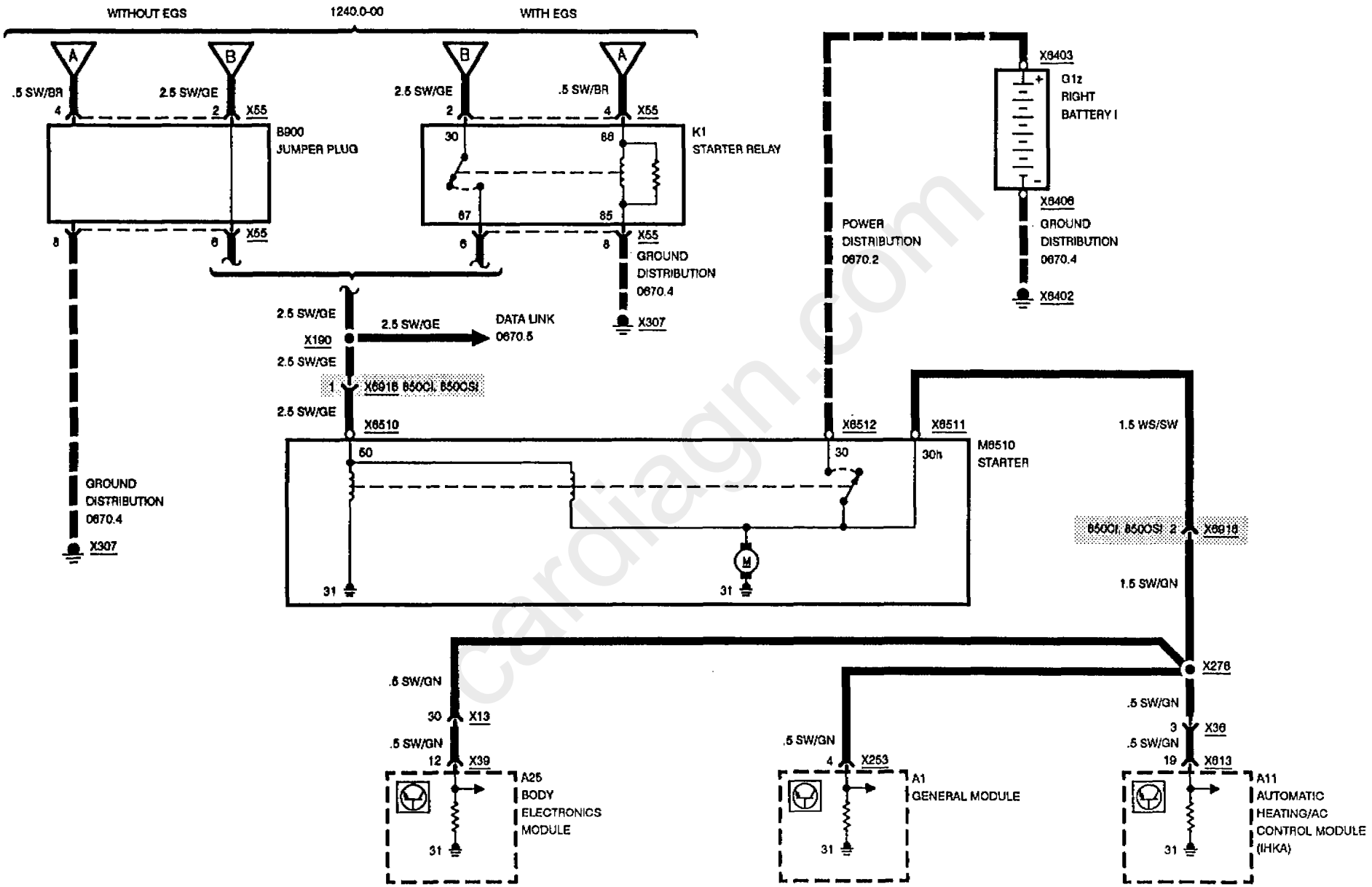
cardiagn.com



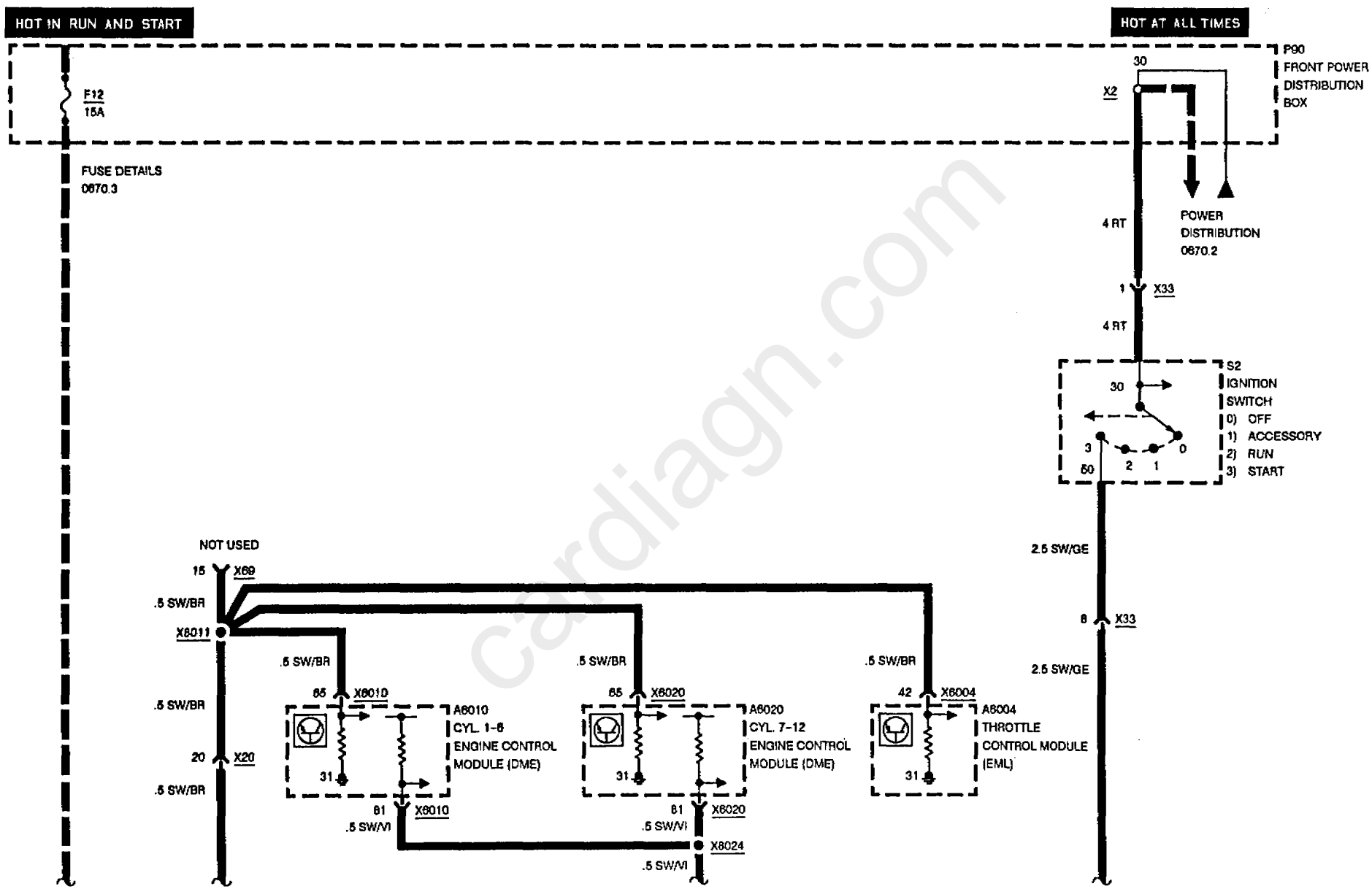
carcdiagn.com



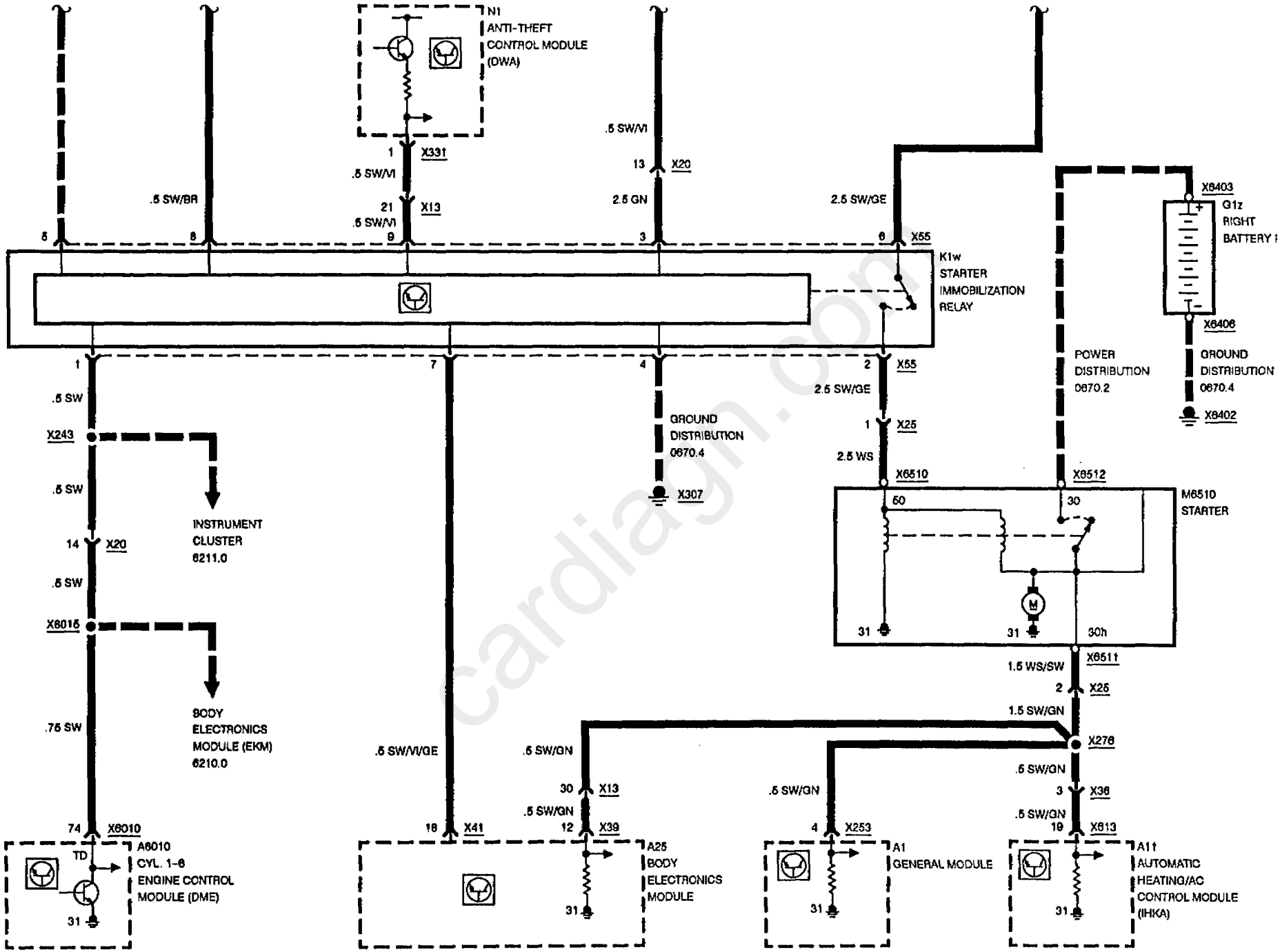
cardiagn.com



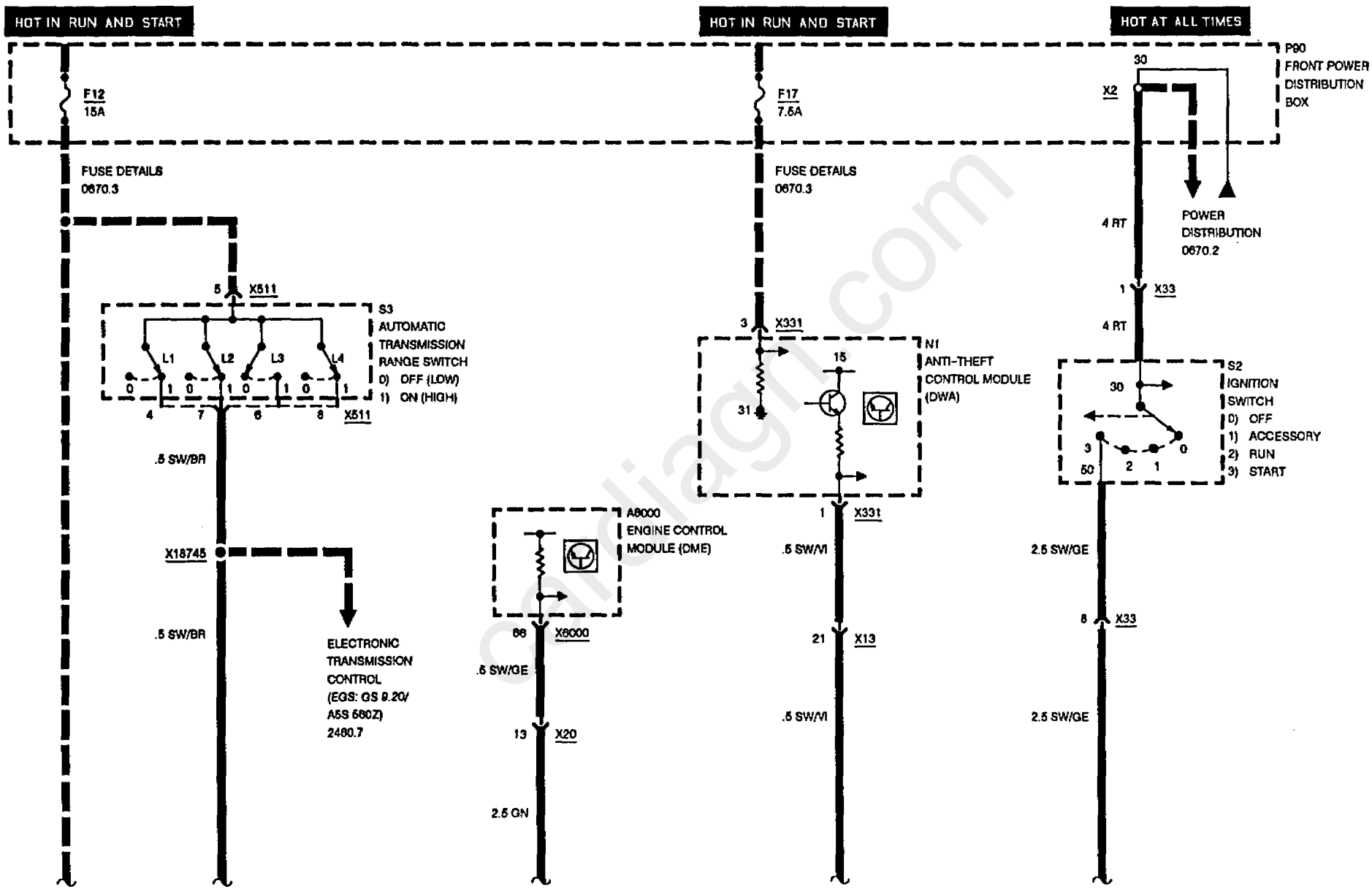
cardiagn.com



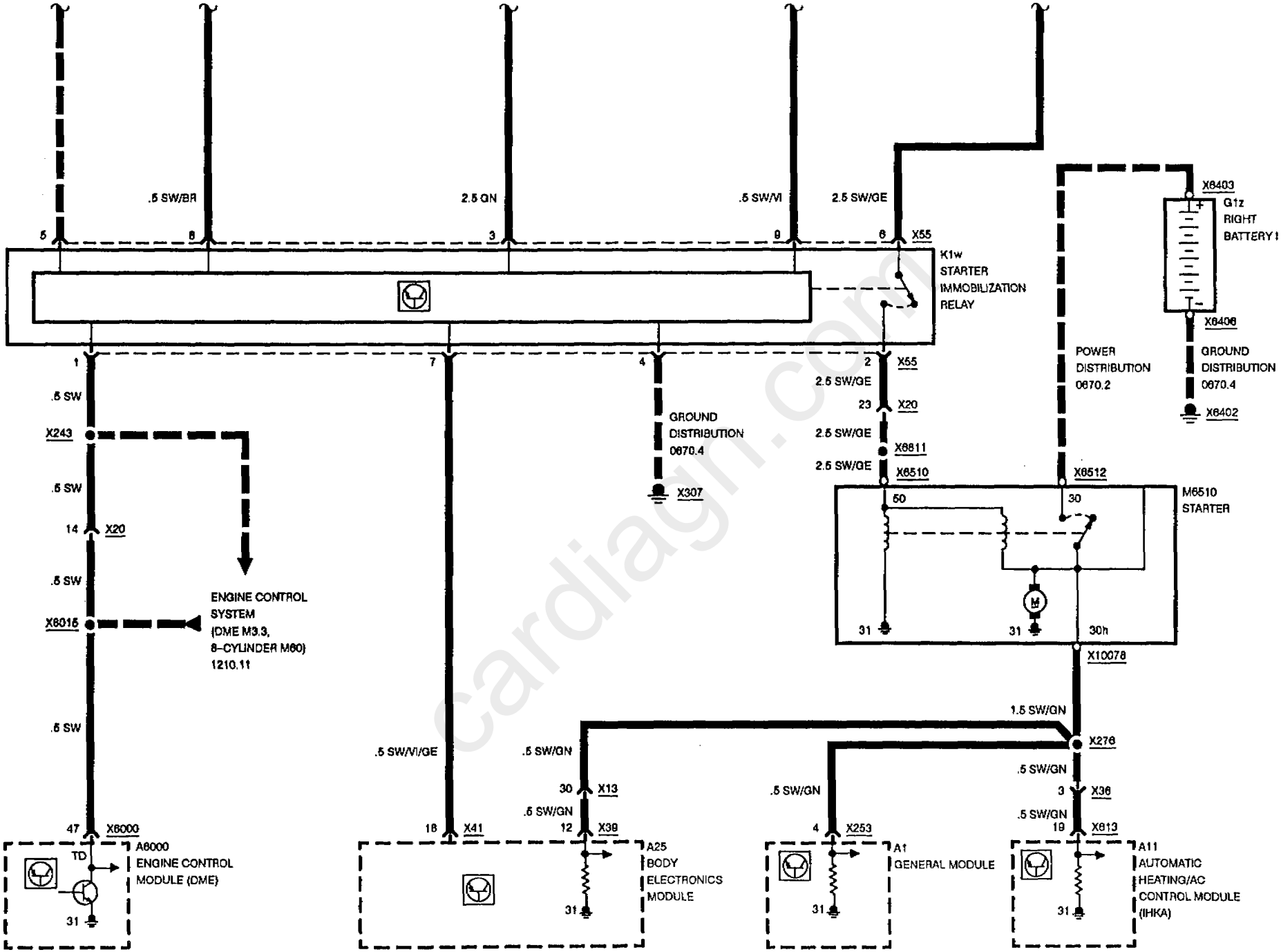
cardiagn.com



cardiagn.com



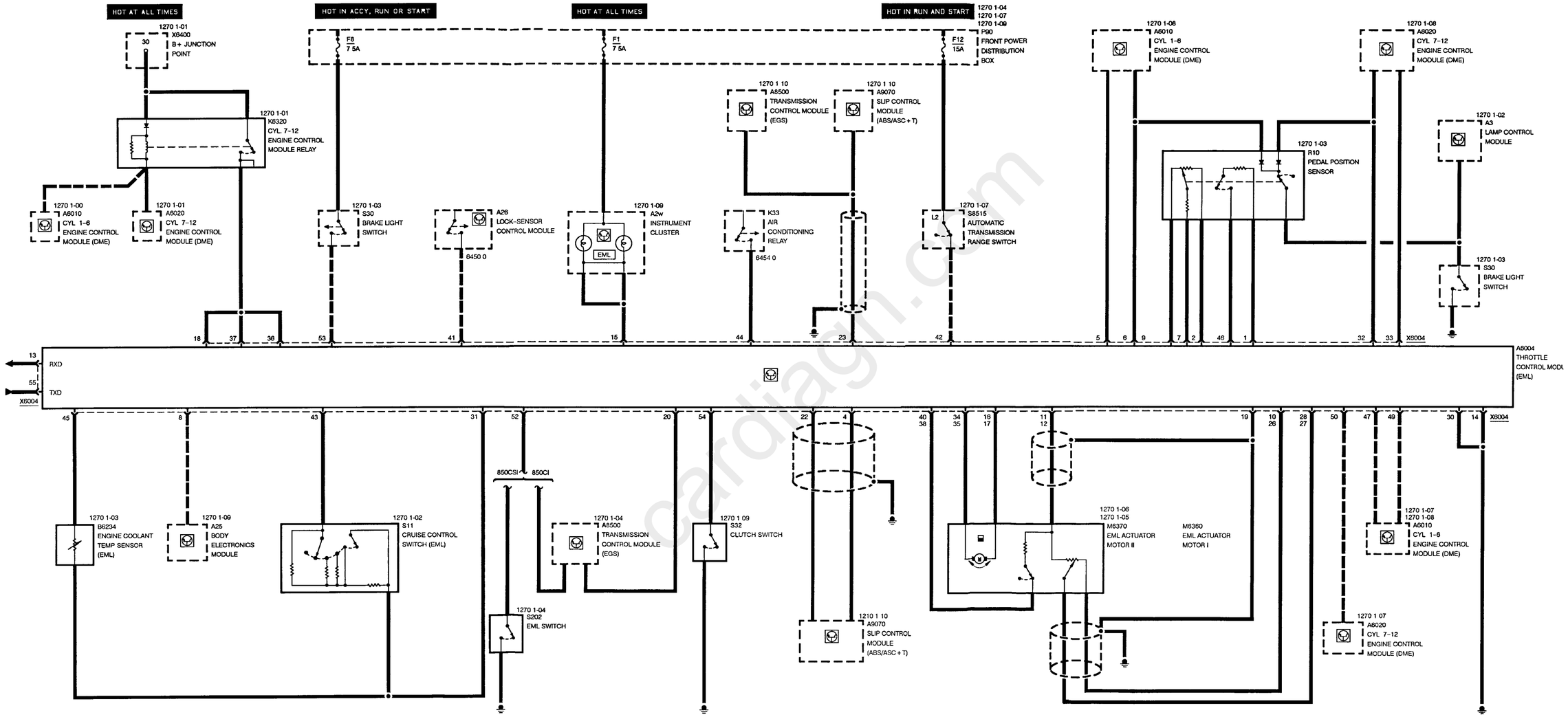
cardiagn.com



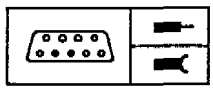
cardiagn.com

carclagn.com

12/94 — 1270 1 — 1994
12/94 — 1270.1 — 1994



cardiagn.com



Pin Assignments

X6004

Pin	Type	Description/Function	Connection
1	A	5 V (not short-circuit-proof)	Pedal position sensor
2	M	Ground (electronic ground)	Pedal position sensor ground
3		Not used	
4	E	Throttle valve angle reduction (DKR)	Slip control module (ASC + T)
5	A	Wide open throttle signal	Cyl. 1-6 engine control module (DME)
6	A	Idle signal	Cyl. 1-6 engine control module (DME)
7	E	Pedal position	Pedal postion sensor
8	E	Speedometer signal	Body electronics module (EKM)
9	A	5 V (not short-circuit-proof)	Pedal position sensor
10	M	Ground (electronic ground)	Component ground Cyl. 7-12 throttle body
11	A	5 V (not short-circuit-proof)	Cyl. 7-12 throttle body
12	A	5 V (not short-circuit-proof)	Cyl. 1-6 throttle body
13	E	RxD diagnostic data line	Data link connector
14	M	Ground (Output ground)	Output ground Cyl. 1-6 throttle body
15	A E	EML warning lamp Voltage supply for defect code memory	Instrument cluster
16	A	Throttle actuator (DK)	Cyl. 7-12 throttle body
17	A	Throttle actuator (DK)	Cyl. 1-6 throttle body
18	E	Voltage supply (+)	Cyl. 7-12 engine control module relay
19	M	Ground	Ground point
20	A	Kick-down signal	Tranmission control module (EGS)
21		Not used	
22	E	Throttle valve angle increase (DKE)	Slip control module (ASC + T)
23	A	Throttle valve angle signal (DKV)	Slip control module (ASC + T)
24		Not used	
25		Not used	
26	M	Ground (electronic ground)	Component ground Cyl. 1-6 throttle body
27	E	Throttle position	Cyl. 1-6 throttle body potentiometer
28	E	Throttle position	Cyl. 7-12 throttle body potentiometer

E = Input, A = Output, M = Ground

Pin Assignments

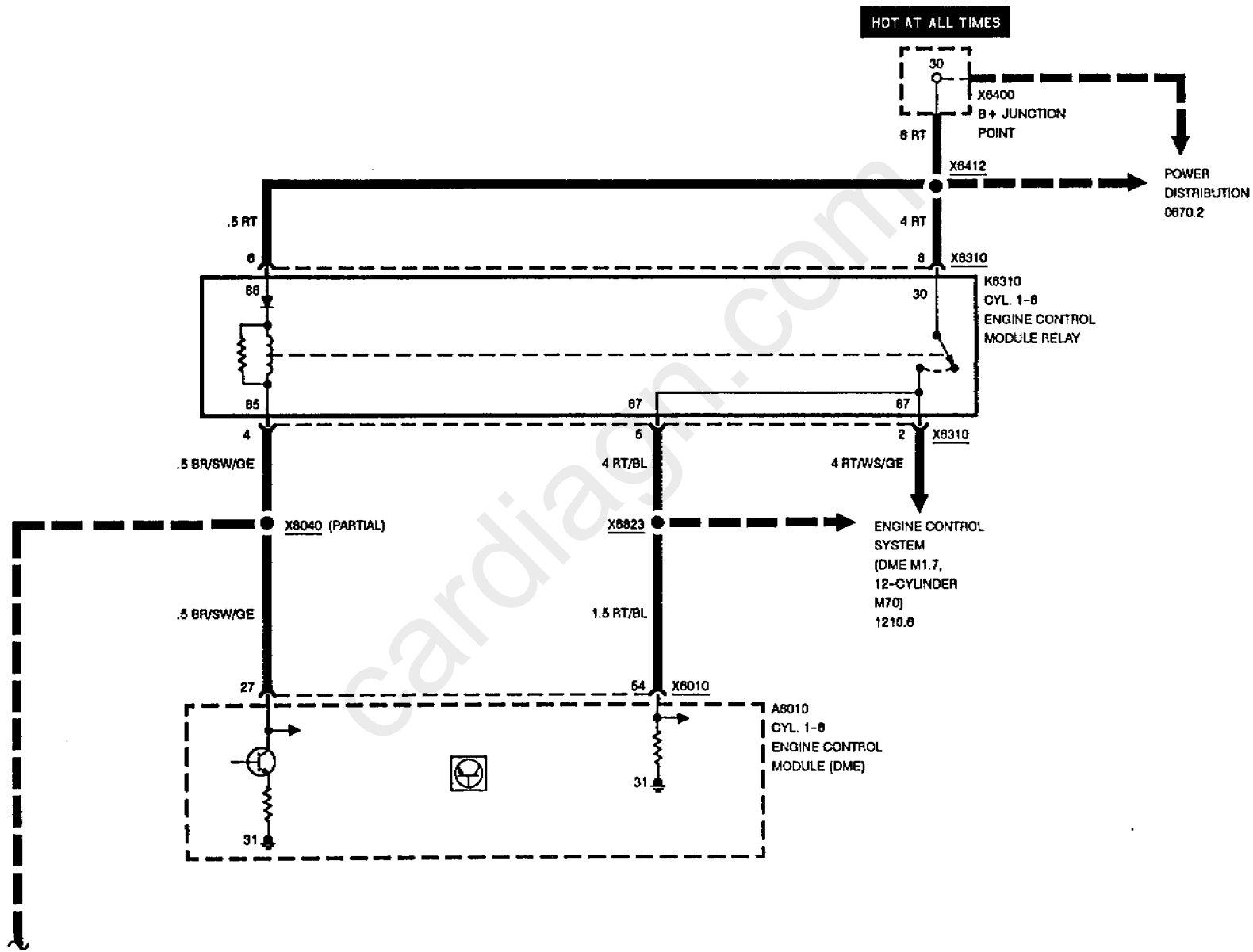
Pin	Type	Description/Function	Connection
29		Not used	
30	M	Ground (output ground)	Output ground Cyl. 7–12 throttle body
31	M	Ground (electronic ground)	Engine coolant temperature sensor (EML)
32	A	Idle signal	Cyl. 7–12 engine control module (DME)
33	A	Wide open throttle	Cyl. 7–12 engine control module (DME)
34	A	Throttle actuator (DK)	Cyl. 7–12 throttle body
35	A	Throttle actuator (DK)	Cyl. 1–6 throttle body
36	E	Voltage supply (+)	Cyl. 7–12 engine control module relay
37	E	Voltage supply (+)	Cyl. 7–12 engine control module relay
38	E	Throttle angle 17° switch	Cyl. 1–6 throttle body
39		Not Used	
40	E	Throttle angle 17° switch	Cyl. 7–12 throttle body
41	E	A/C compressor ON	Lock sensor control module
42	E	Park/Neutral sensing	Automatic transmission range switch
43	E/A	Cruise control	Cruise control switch
44	E	A/C status signal	Air conditioning relay
45	E/A	Engine coolant temperature	Engine coolant temperature sensor (EML)
46	E	Pedal position sensor 9° switch	Pedal position sensor
47	E	Engine speed signal (TD)	Cyl. 1–6 engine control module (DME)
48		Not Used	
49	E	Injection signal (ti)	Cyl. 1–6 engine control module (DME)
50	E	Injection signal (ti)	Cyl. 1–6 engine control module (DME)
51		Not Used	
52	E	S-program identifier	850Ci Transmission control module 850CSi EML - Switch
53	E	Brake pedal position	Brake light switch
54	E	Clutch pedal position	Clutch switch
55	E/A	TxD diagnostic data line	Data link connector

E = Input, A = Output, M = Ground

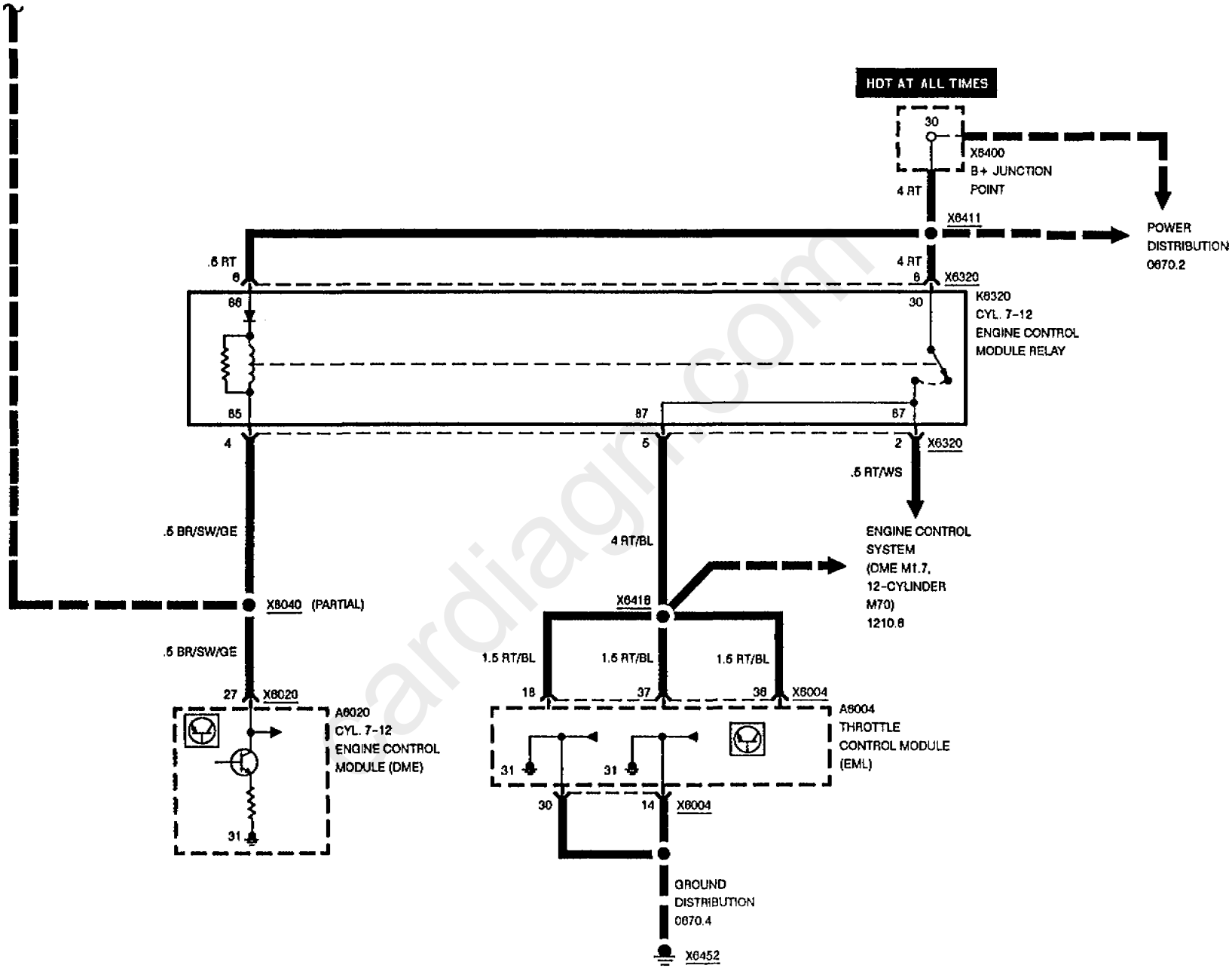
satdiagram.com

carldiagn.com

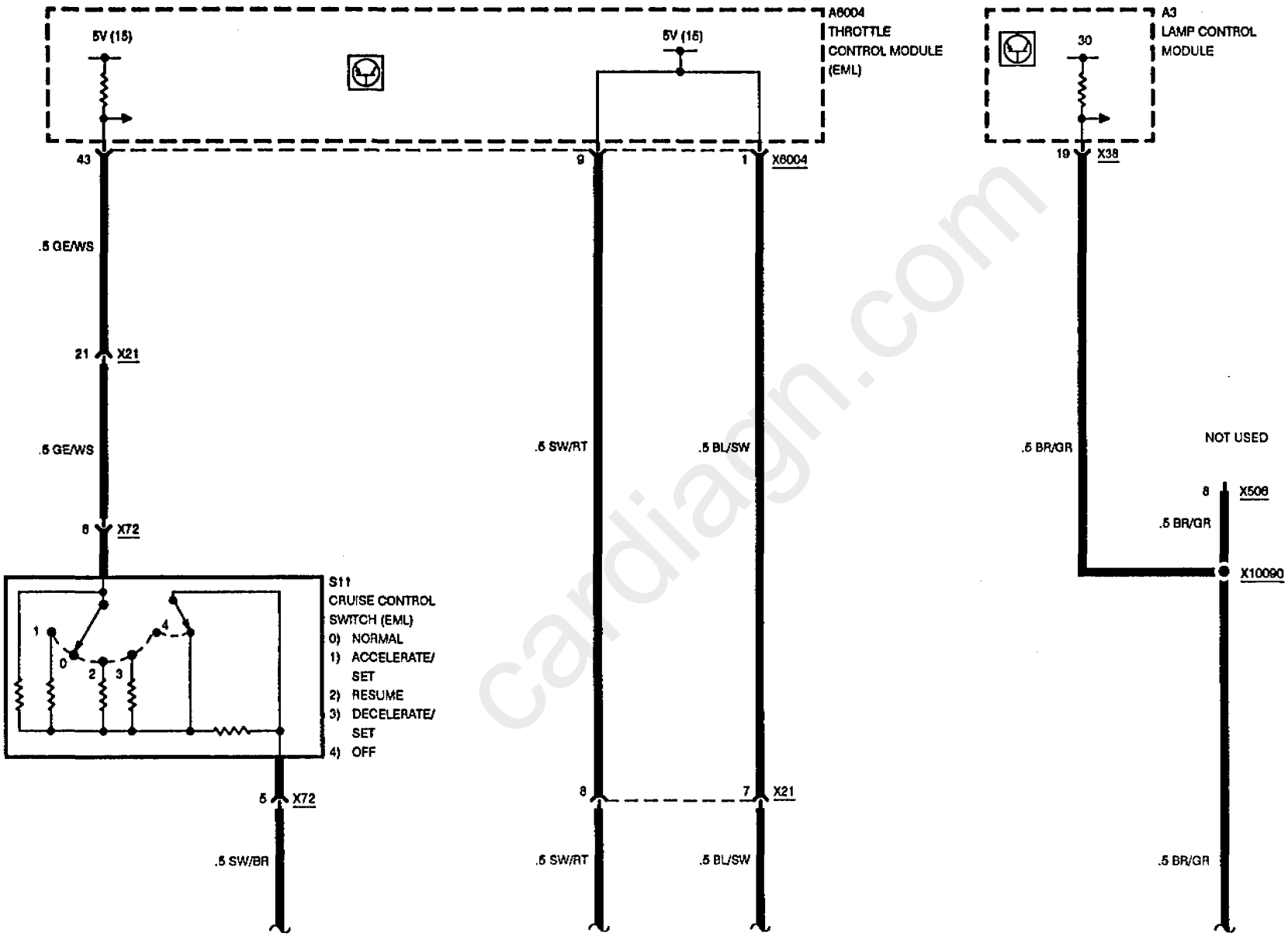
ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



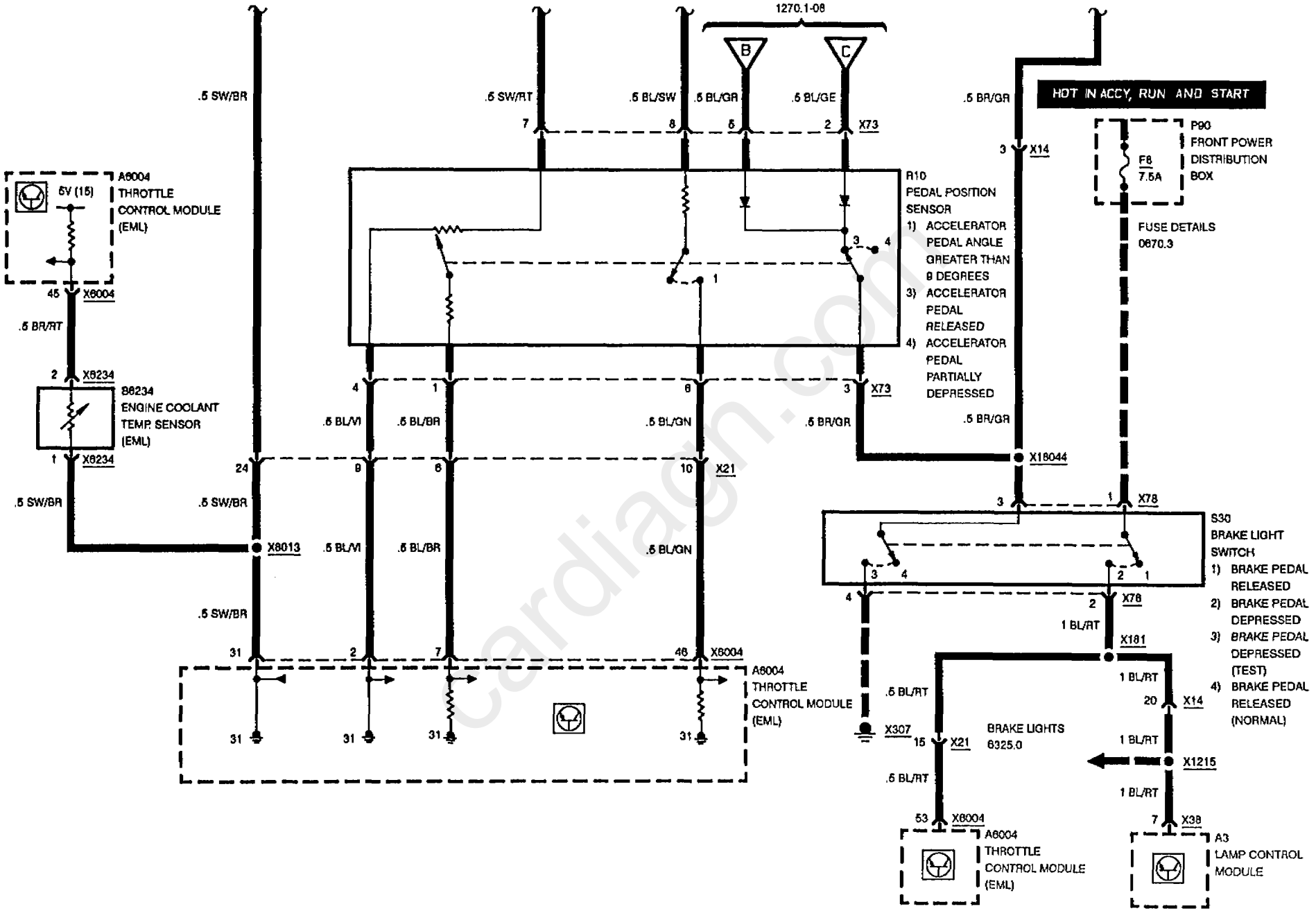
cardiagn.com


HOT AT ALL TIMES
30
X6400
B+ JUNCTION POINT
4 RT
X6411
POWER DISTRIBUTION 0670.2
.5 RT
6
4 RT
6
X6320
86
30
K6320
CYL. 7-12 ENGINE CONTROL MODULE RELAY
85
87
87
4
5
2
X6320
.5 RT/WS
ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70) 1210.6
.5 BR/SW/GE
4 RT/BL
X8040 (PARTIAL)
X6418
.5 BR/SW/GE
1.5 RT/BL
1.5 RT/BL
1.5 RT/BL
27
X8020
18
37
38
X8004
A6020
CYL. 7-12 ENGINE CONTROL MODULE (DME)
A6004
THROTTLE CONTROL MODULE (EML)
31
31
31
30
14
X6004
GROUND DISTRIBUTION 0670.4
X6452

ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)

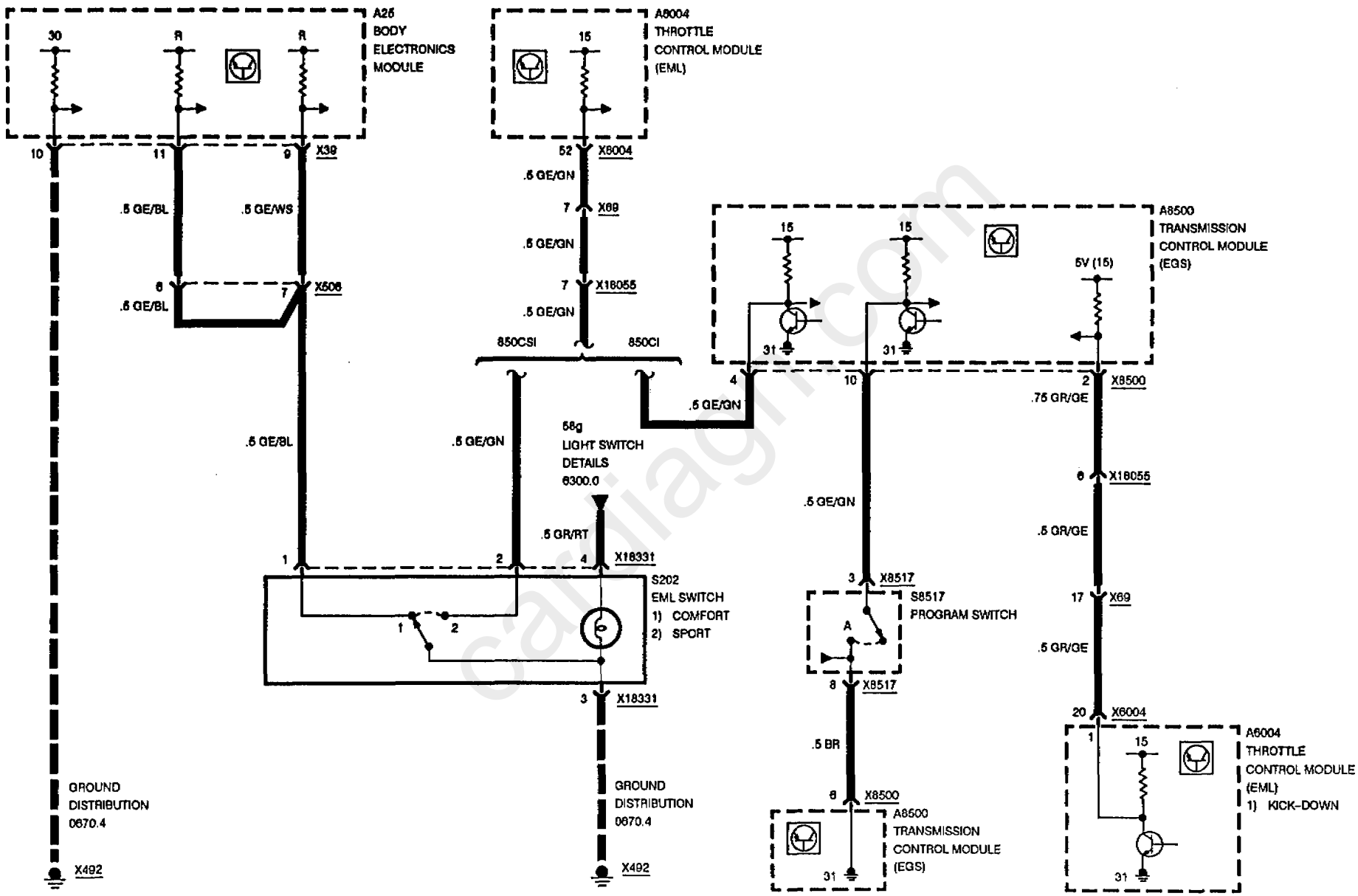


cardiagn.com



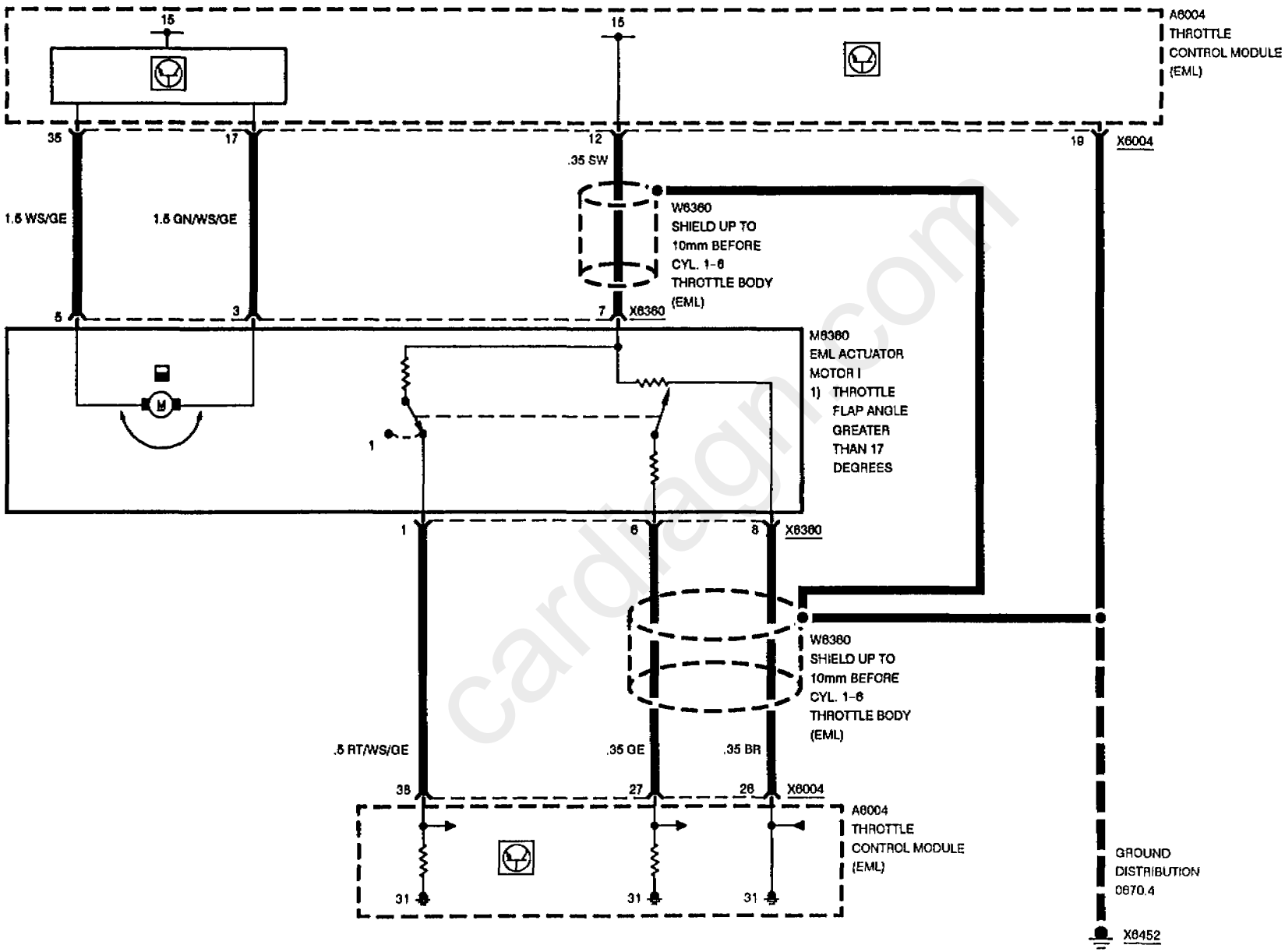
cardiagn.com

ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)

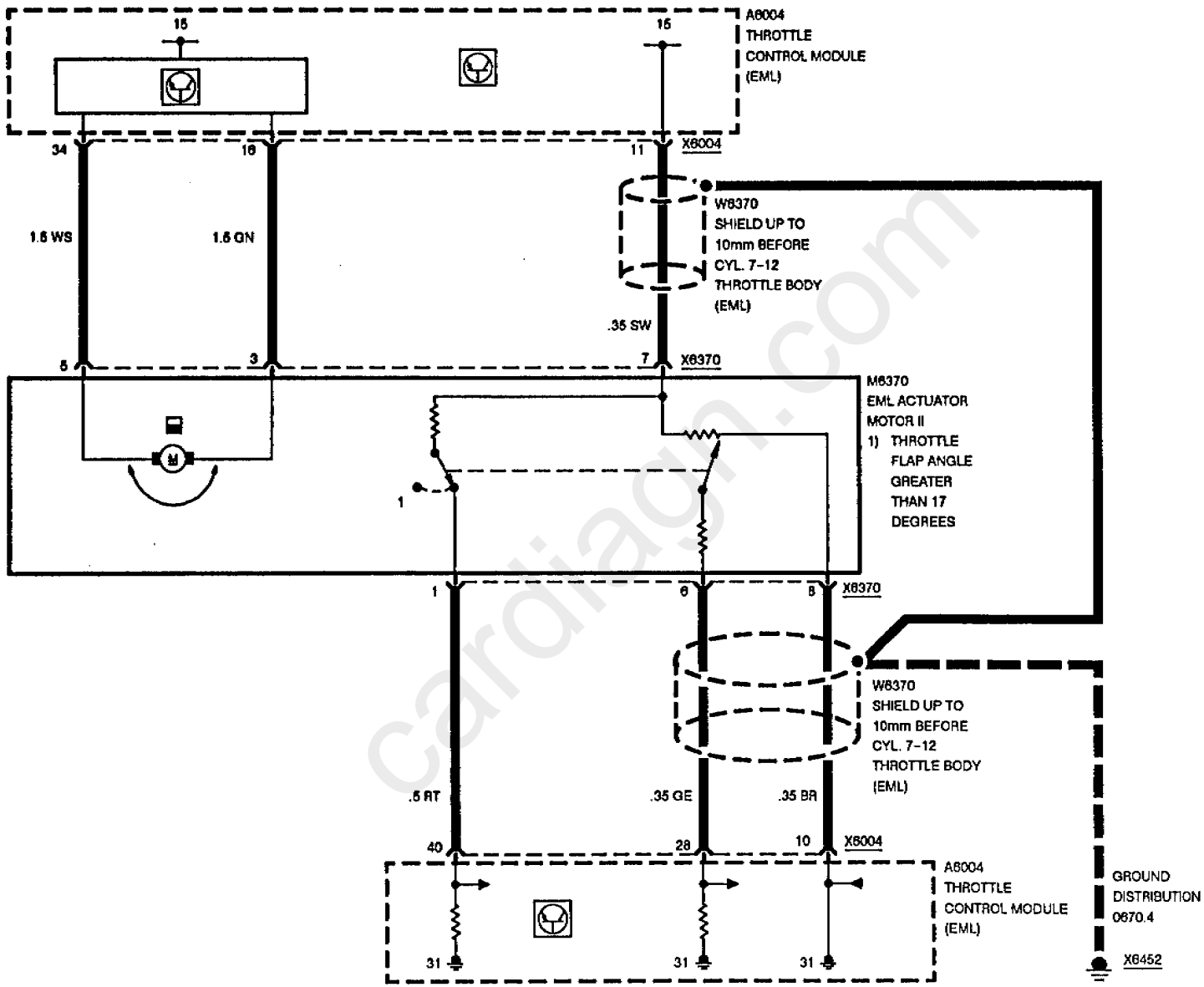


carjagram.com

ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)

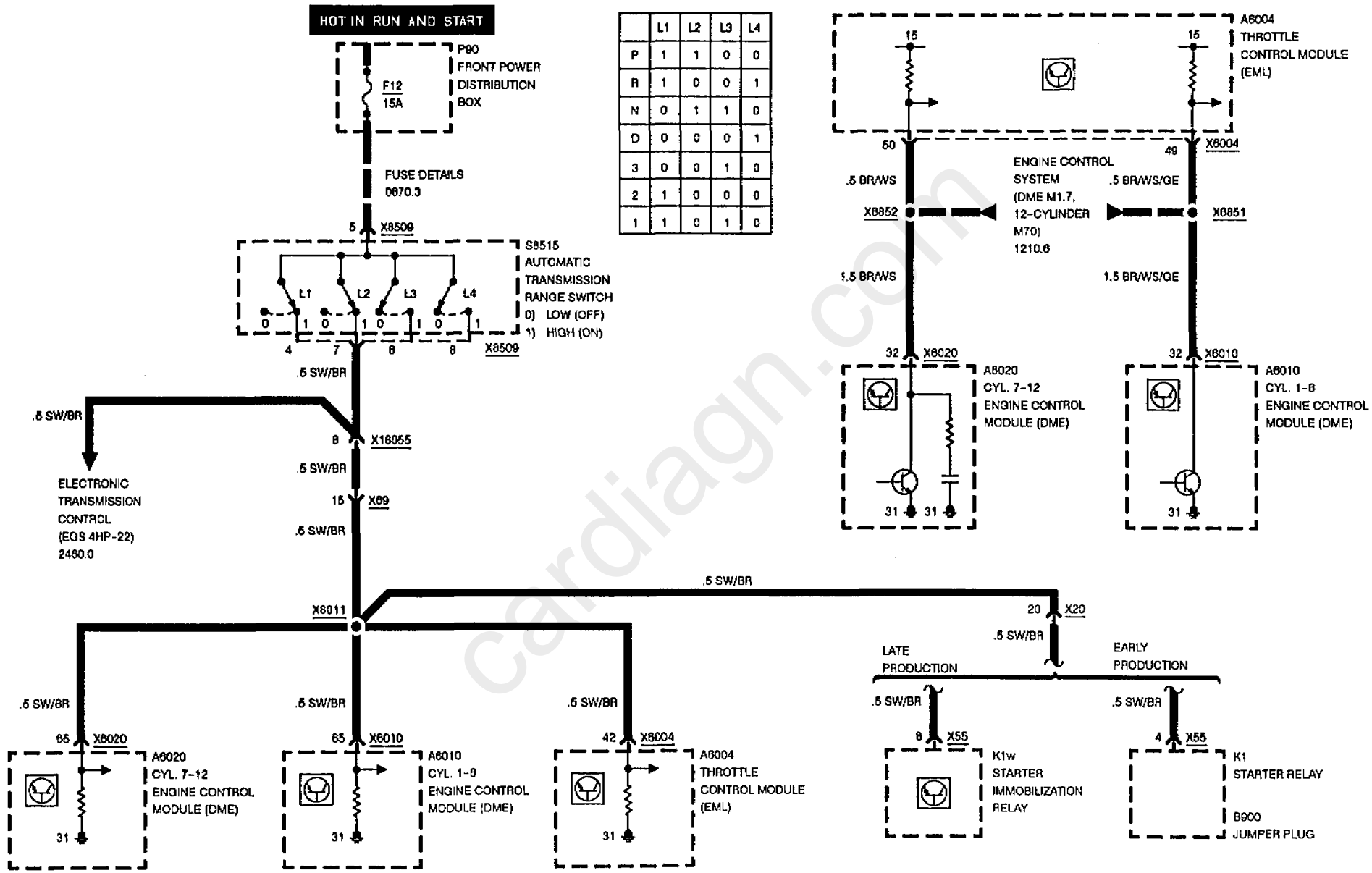


ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



cardiagn.com

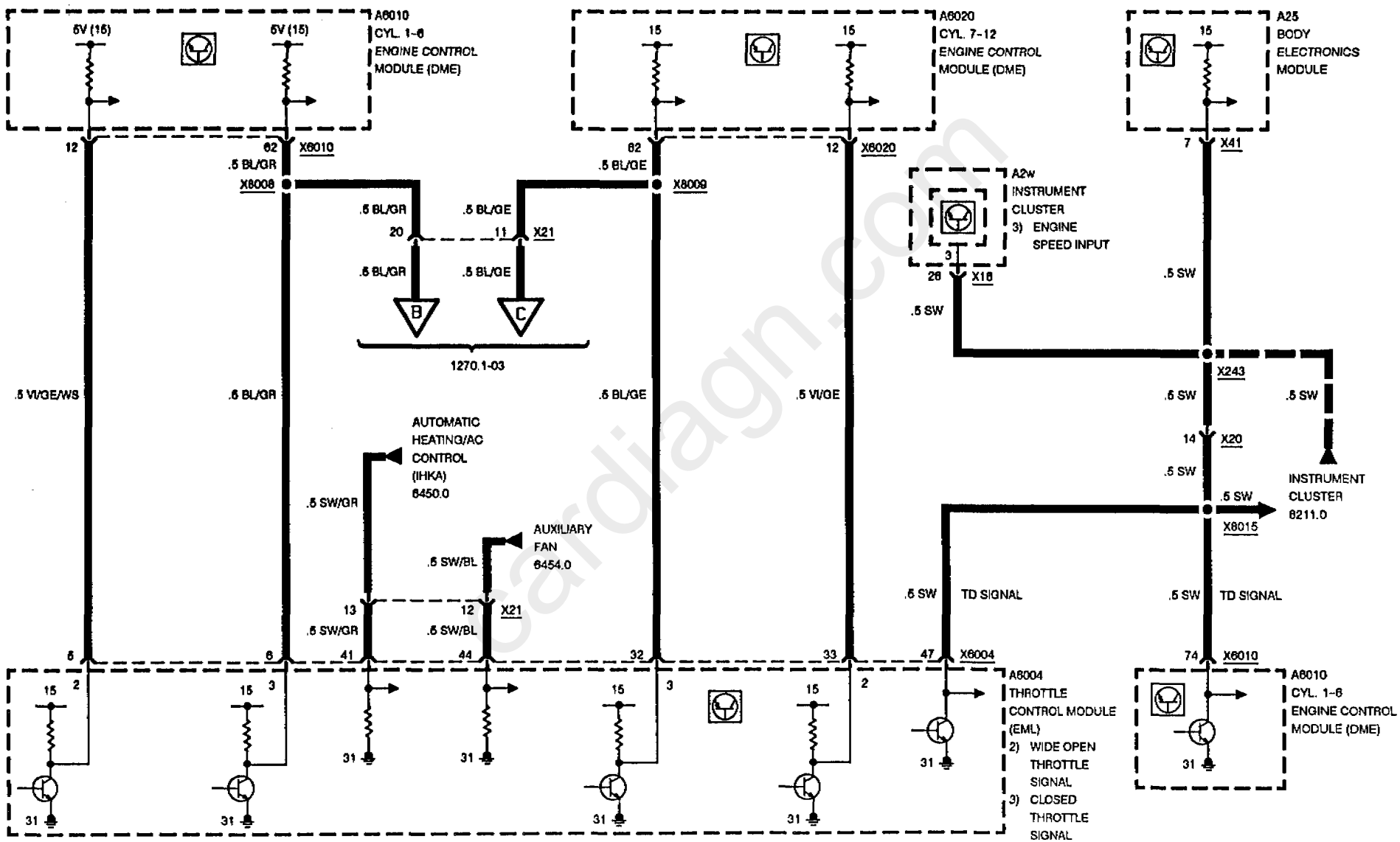
ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



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

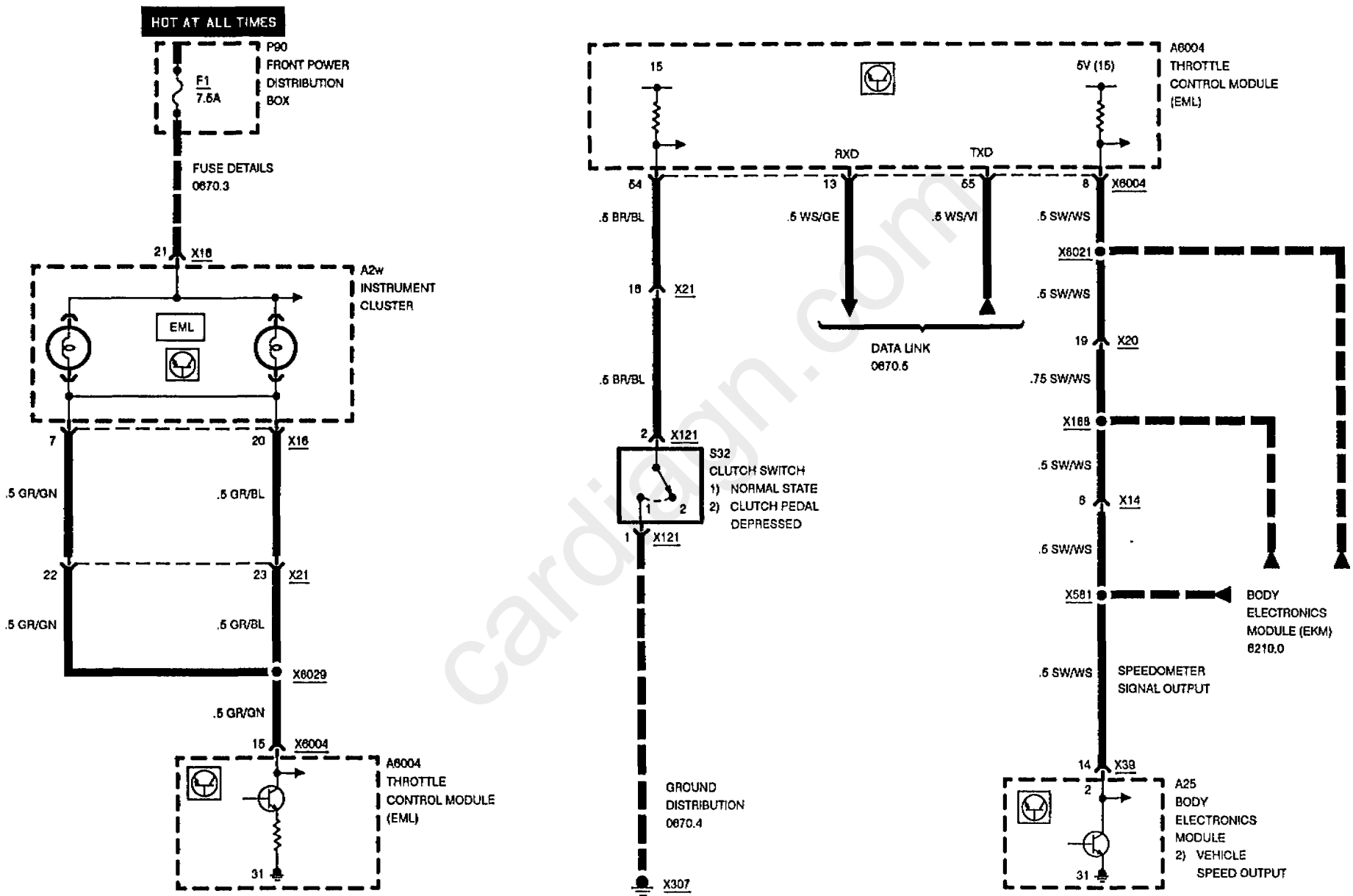
cardiagn.com

ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



cardiagn.com

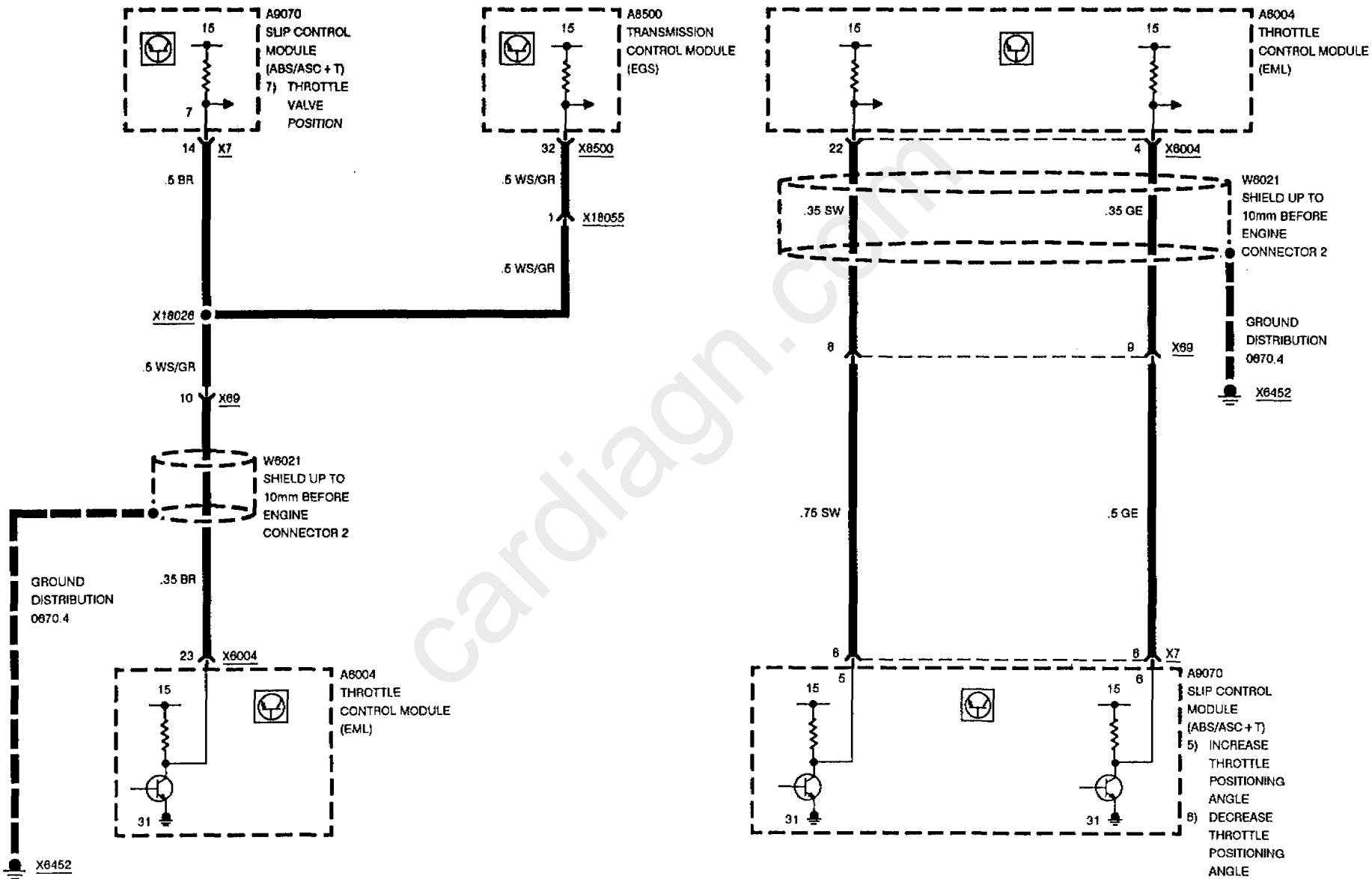
ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



cardiagn.com

ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)

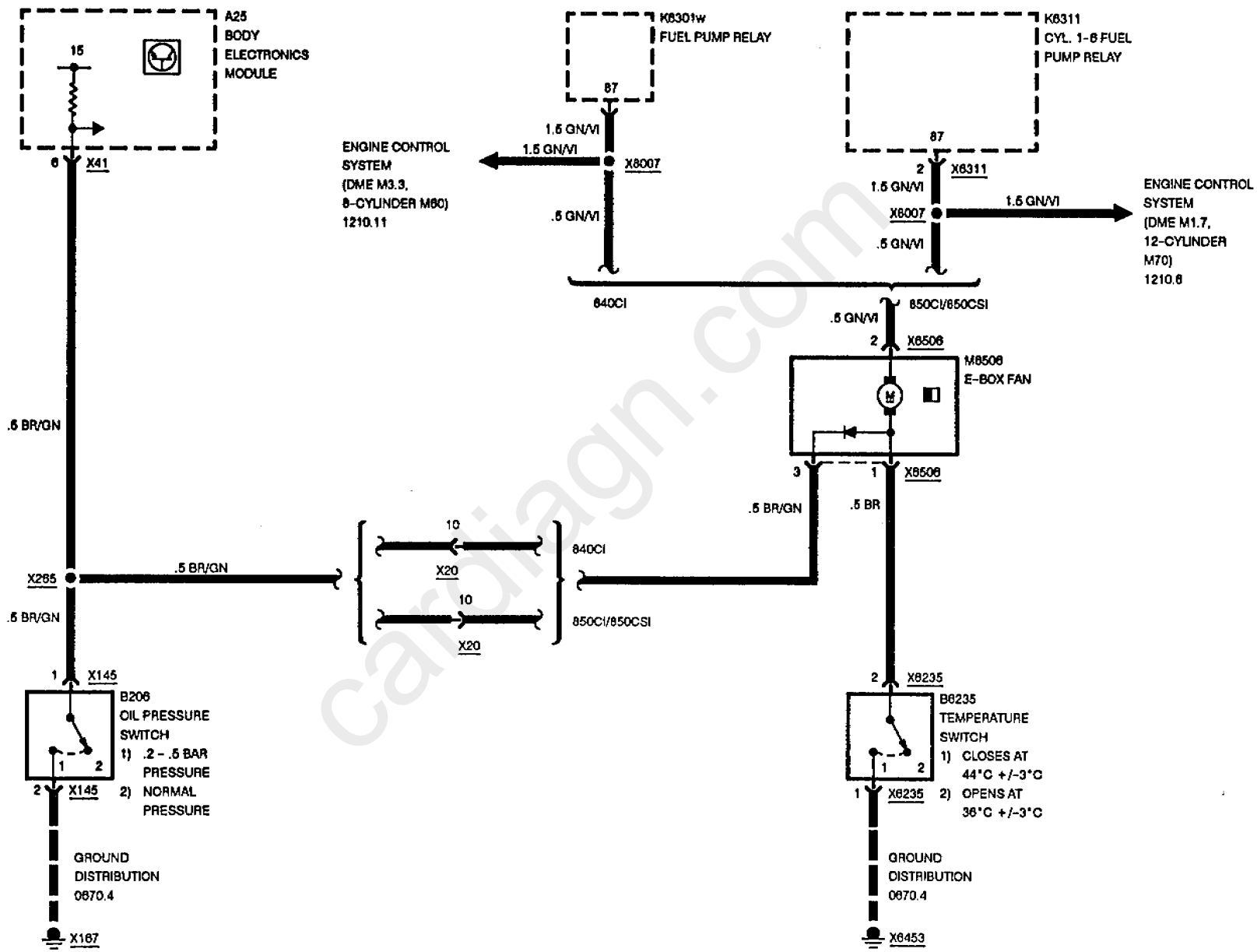
ASC + T INTERFACE



cardiagn.com

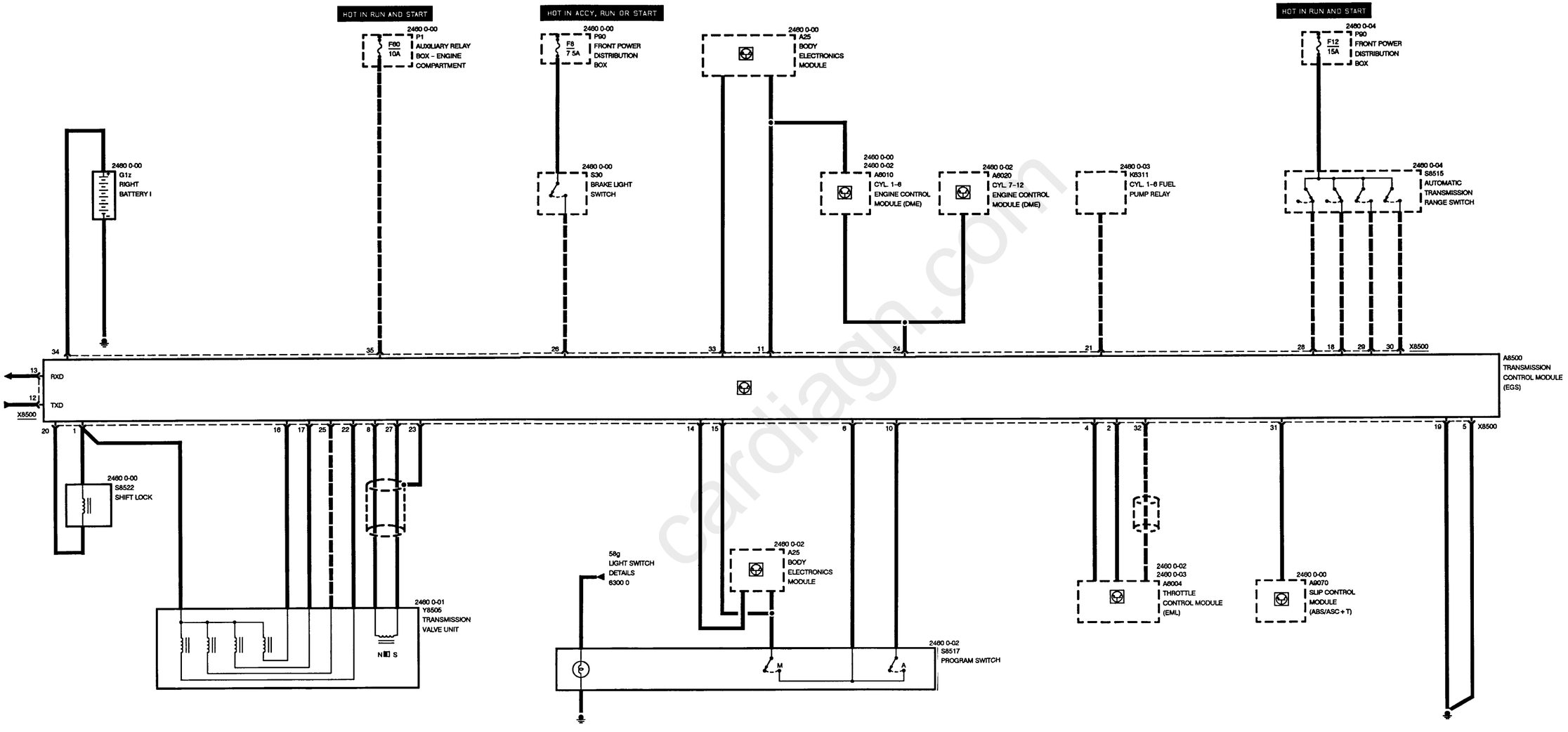
cardiagn.com

E-BOX FAN

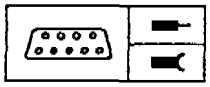


cardiagn.com

12/94 — 2460.0 — 1994
12/94 — 2460.0 — 1994



cardiagn.com



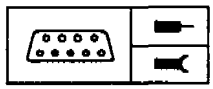
Pin Assignments

X8500

Pin	Type	Description/Function	Connection
1	A	Voltage supply, solenoid valves and pressure regulator	Transmission gearshift, shiftlock
2	E	Kick-Down	Electronic throttle control module (EML)
3		Not used	
4	E/A	S-Program identifier	Electronic throttle control module (EML)
5	M	Ground	Ground point
6	M	Ground, program switch	Program switch
7		Not used	
8	E	Output speed (+)	Transmission gearshift
9		Not used	
10	E	A-program	Program switch
11	E	Injection signal (ti)	Body electronics module (EKM)
12	E/A	TxD diagnostic data link	Data link connector
13	E	RxD diagnostic data link	Data link connector
14	E/A		Body electronics module (EKM)
15	E/A	M-program	Program switch, Body electronics module (EKM)
16	A	Solenoid valve 1	Transmission gearshift
17	A	Solenoid valve 2	Transmission gearshift
18	E	Position switch L1	Automatic transmission range switch
19	M	Ground, pressure regulator and solenoid valves	Ground point
20	A	Unlock shift lever	Shift lock
21	E	Engine speed (TR signal)	Cyl. 1-6 fuel pump relay
22	A	Pressure regulator solenoid valve	Transmission gearshift
23	M	Speed sensor shield ground	Speed sensor shield
24	A	Engine intervention	Engine control modules (DME)
25	A	Torque converter clutch solenoid valve	Transmission gearshift
26	E	Brake pedal position	Brake light switch
27	E	Output speed (-)	Transmission gearshift
28	E	Position switch L2	Automatic transmission range switch

E = Input, A = Output, M = Ground

eardiagn.com



Pin Assignments

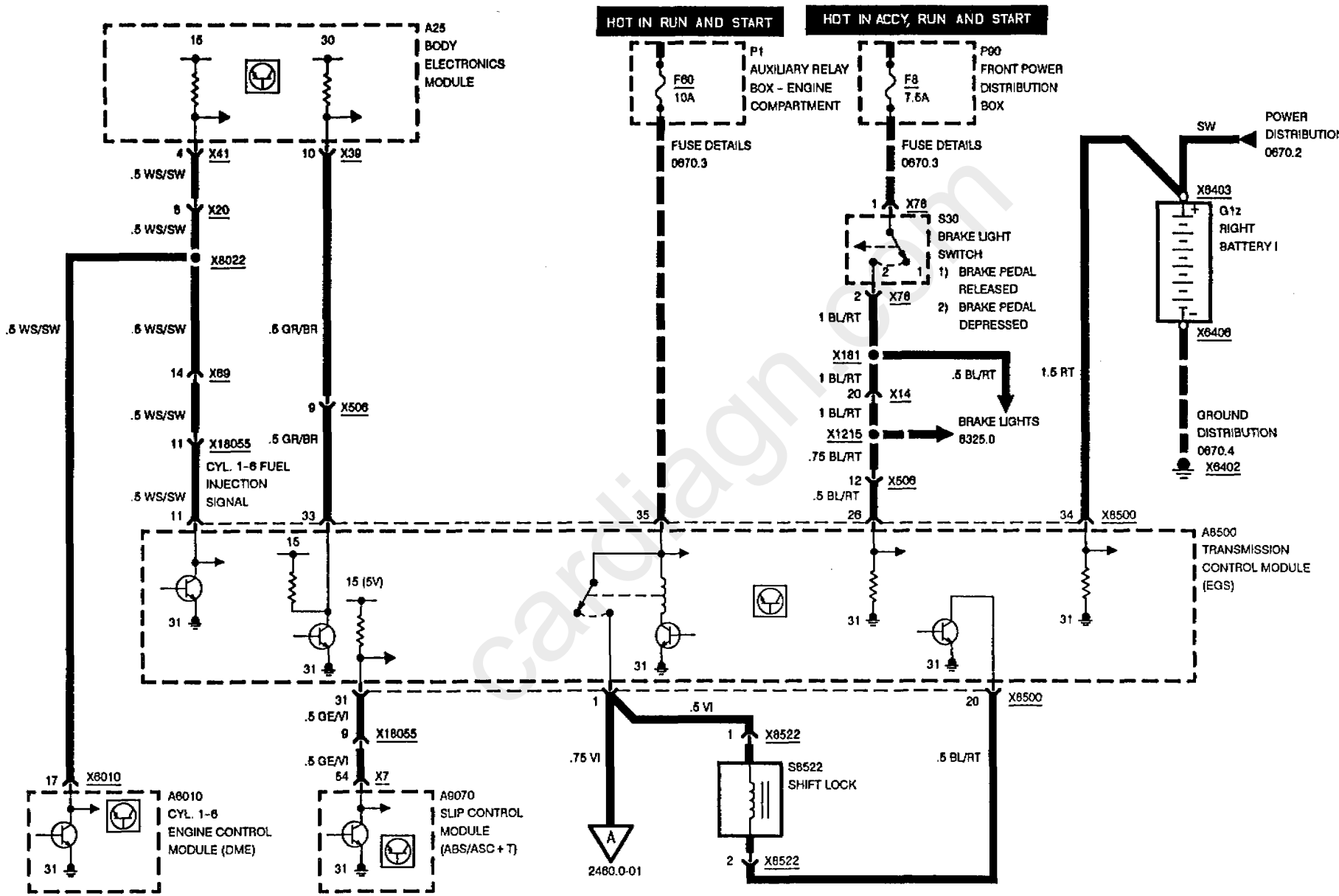
Pin	Type	Description/Function	Connection
29	E	Position switch L3	Automatic transmission range switch
30	E	Position switch L4	Automatic transmission range switch
31	E	ASC active	Slip control module (ASC + T)
32	E	Throttle position	Electronic throttle control module (EML)
33	A	Fault display	Body electronics module (EKM)
34	E	Battery voltage	Battery (+)
35	E	Voltage supply	Fuse F60

cardiagn.com

E = Input, A = Output, M = Ground

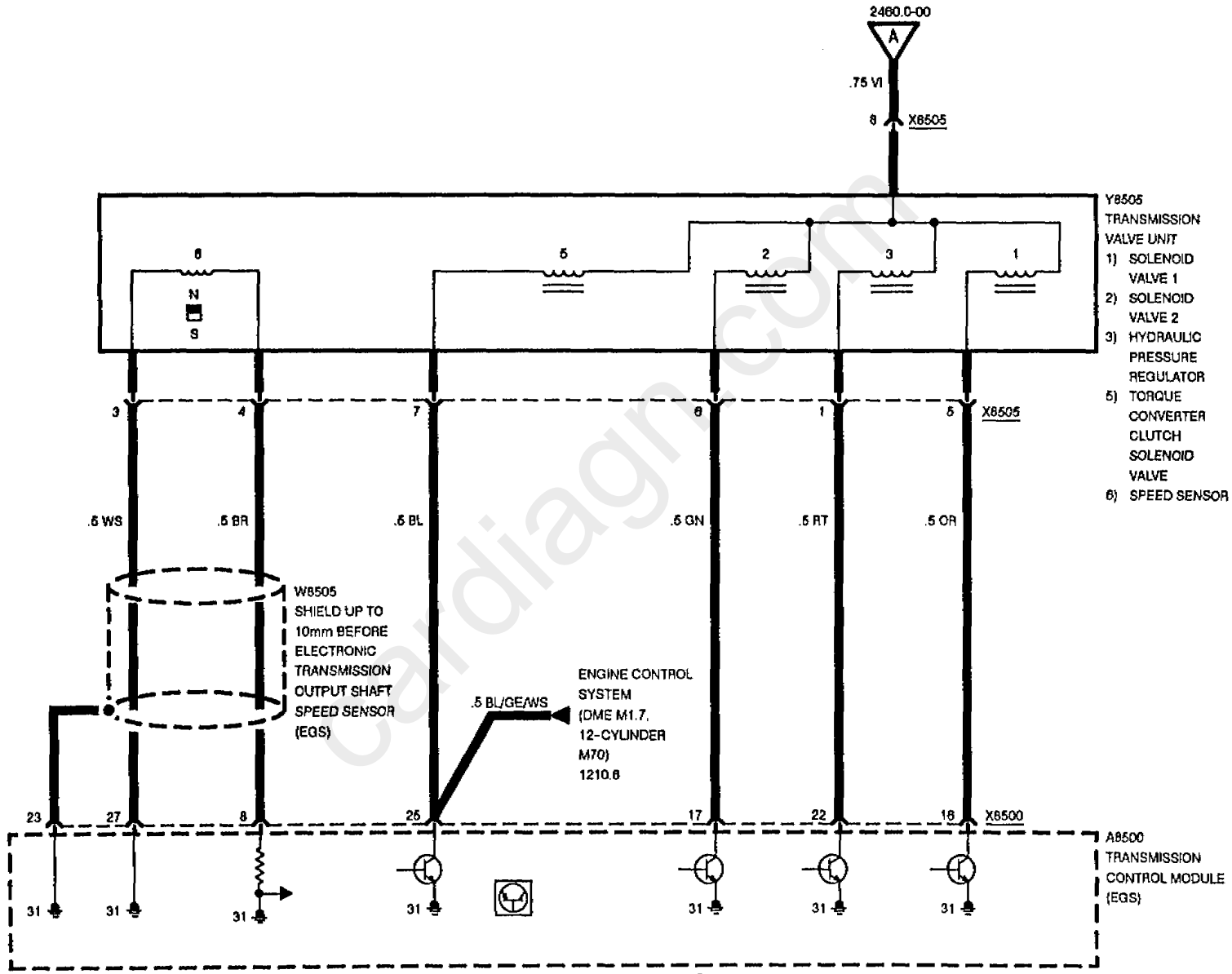
carldiagn.com

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-24)



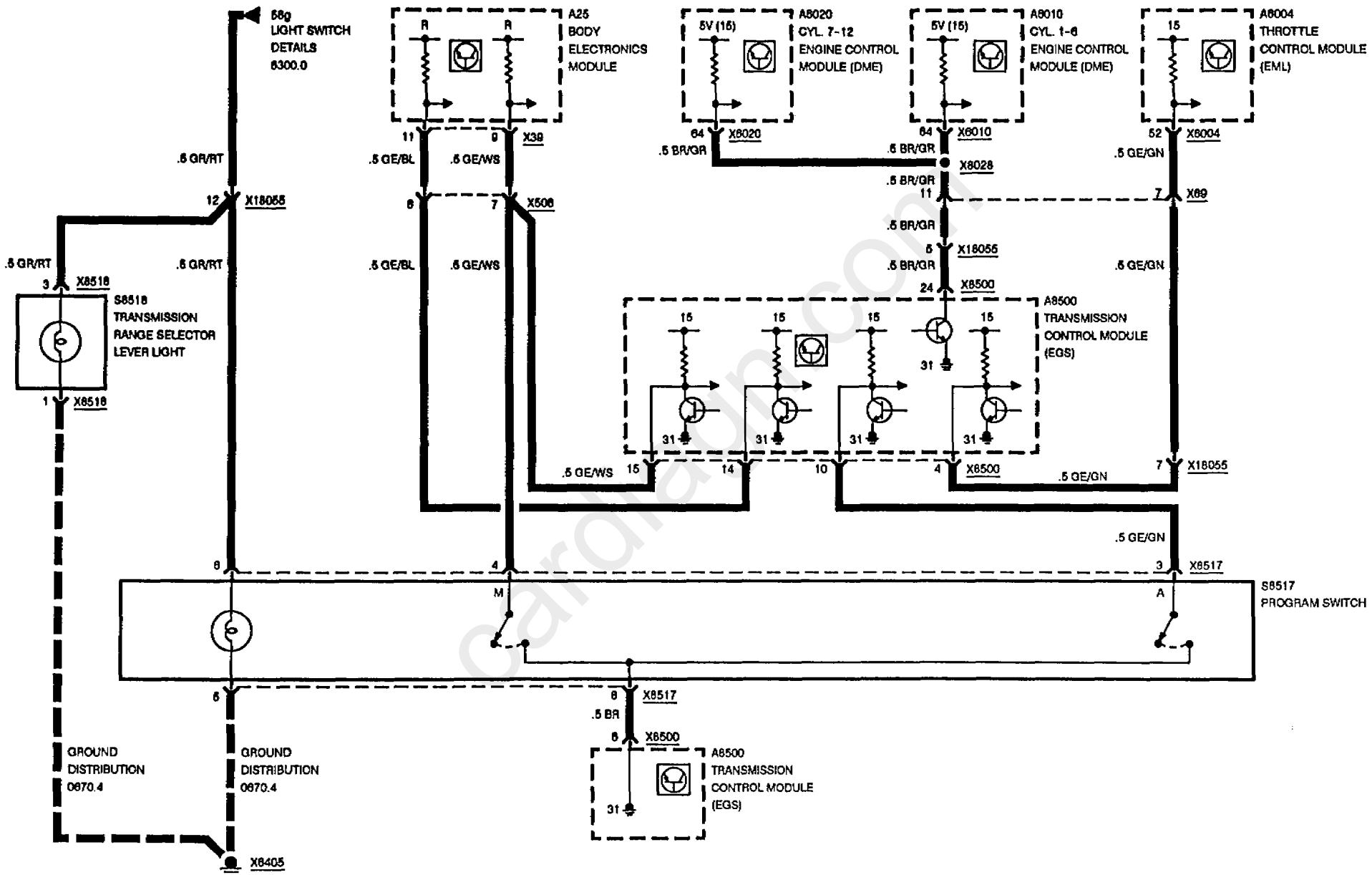
cardiagn.com

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-24)



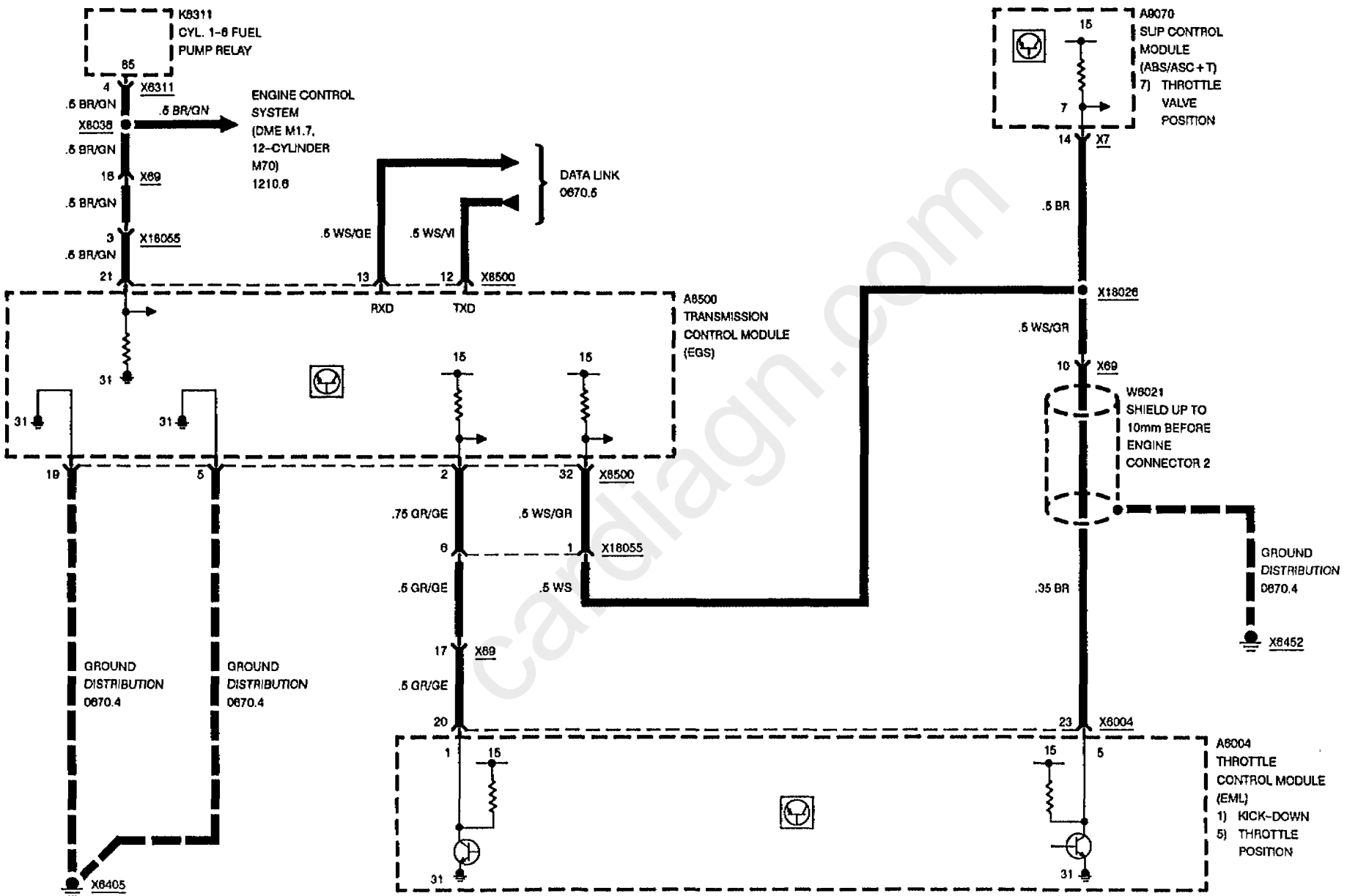
cardiagn.com

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-24)



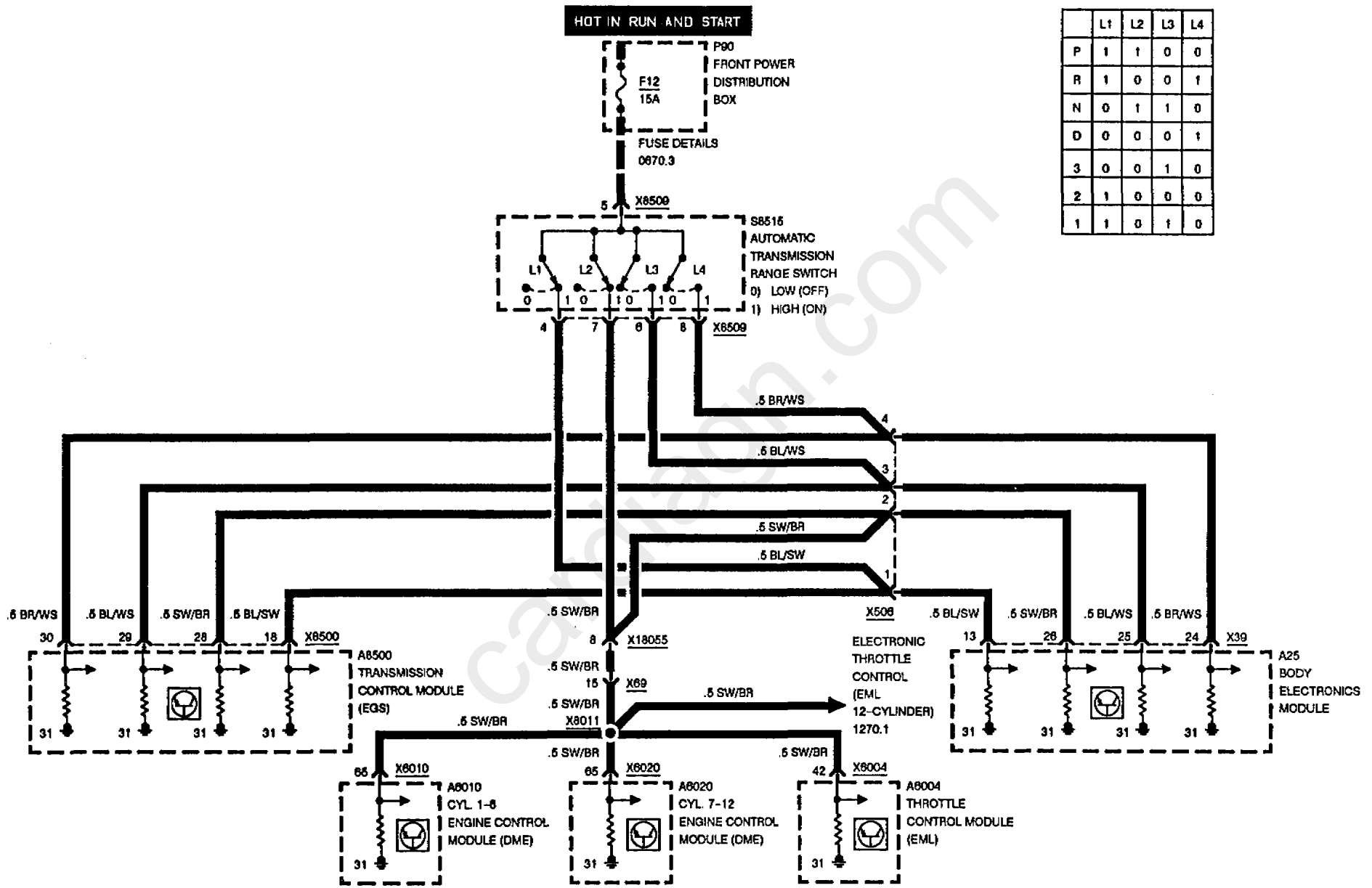
carmanuals.com

ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-24)



cardiagn.com

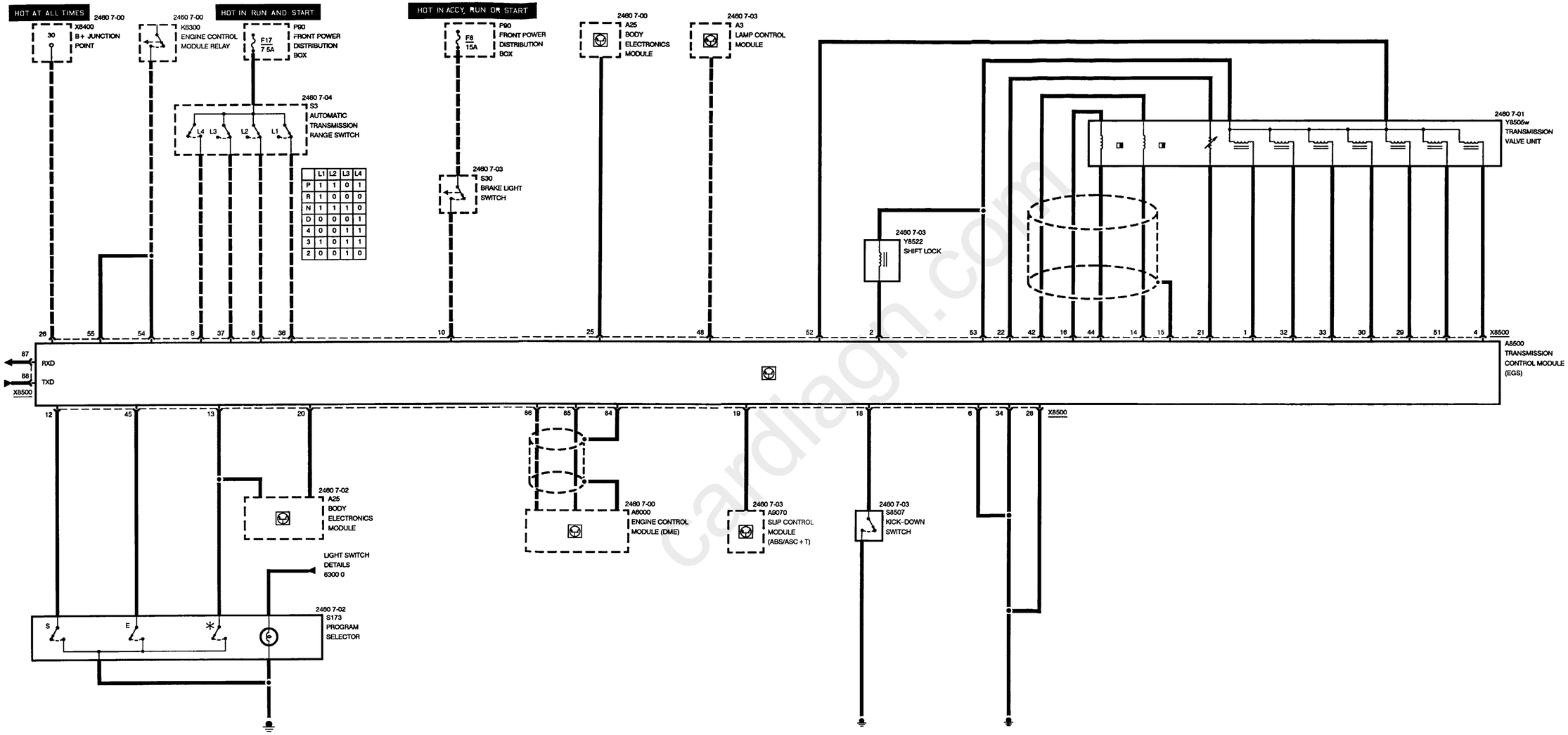
ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-24)



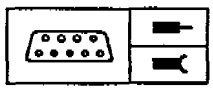
	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

carmanuals.com

12/94 — 2460.7 — 1994
12/94 — 2460.7 — 1994



cardiagn.com



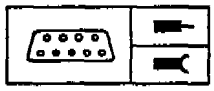
Pin Assignments

X8500

Pin	Type	Description/Function	Connection
1	A	Pressure regulator 2	Transmission gear shift unit, Y8505w
2	A	Shift lock solenoid	Shift lock solenoid, Y19
3		Not used	
4	A	Pressure regulator 4	Transmission gear shift unit, Y8505w
5	A	Pressure regulator 1	Transmission gear shift unit, Y8505w
6	M	Ground	Ground point
7		Not used	
8	E	Position switch L2	Automatic transmission range switch, S3
9	E	Position switch L4	Automatic transmission range switch, S3
10	E	Brake light	Brake light switch, S30
11		Not used	
12	E	Program S	Program switch, S173
13	E/A	Program W	Program switch, S173
14	E	Maximum speed sensor n-ab (-)	Transmission gear shift unit, Y8505w
15	M	Shield	Shield to transmission gear shift unit
16	E	Speed sensor turbine n-T (+)	Transmission gear shift unit, Y8505w
17		Not used	
18	E	Kick down	Kick down switch, S8507
19	E	ASC-Signal	Slip control module (ABS/ASC+T), A9070
20	A	Program E	Body electronics module, A25
21	M	Ground, oil temperature sensor (-)	Transmission gear shift unit,Y8505w
22	E	Oil temperature sensor (+)	Transmission gear shift unit,Y8505w
23	M	Shield Speed Sensor	Ground point
24		Not used	
25	A	Fault display	Body electronics module, A25
26	E	Plus supply (terminal 30)	B+ junction point, X6400
27		Not used	
28	M	Ground (electronic)	Ground point
29	A	Pressure regulator 3	Transmission gear shift unit, Y8505w
30	A	Solenoid valve 1	Transmission gear shift unit, Y8505w

E = Input, A = Output, M = Ground

carmagn.com

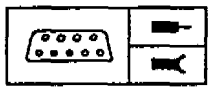


Pin Assignments

Pin	Type	Description/Function	Connection
31		Not used	
32	A	Solenoid valve 3	Transmission gear shift unit, Y8505w
33	A	Solenoid valve 2	Transmission gear shift unit, Y8505w
34	M	Ground	Ground point
35		Not used	
36	E	Position switch L1	Transmission range switch, S3
37	E	Position switch L3	Transmission range switch, S3
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42	E	Output speed n–ab (+)	Transmission valve unit, Y8505w
43		Not used	
44	E	Speed sensor turbine n–T (–)	Transmission gear shift unit, Y8505w
45	E	Program E	Program switch, S173
46		Not used	
47		Not used	
48	E	Brake test	Brake test switch, S30
49		Not used	
50		Not used	
51	A	Pressure regulator 5	Transmission gear shift unit, Y8505w
52	A	Plus supply pressure regulator 3/4/5	Transmission gear shift unit, Y8505w
53	A	Plus supply DR 1/2–MV 1/2/3	Transmission gear shift unit, Y8505w
54	A	Plus supply (terminal 15)	Engine control module relay
55	A	Plus supply (terminal 15)	Engine control module relay
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

bardiagn.com



Pin Assignments

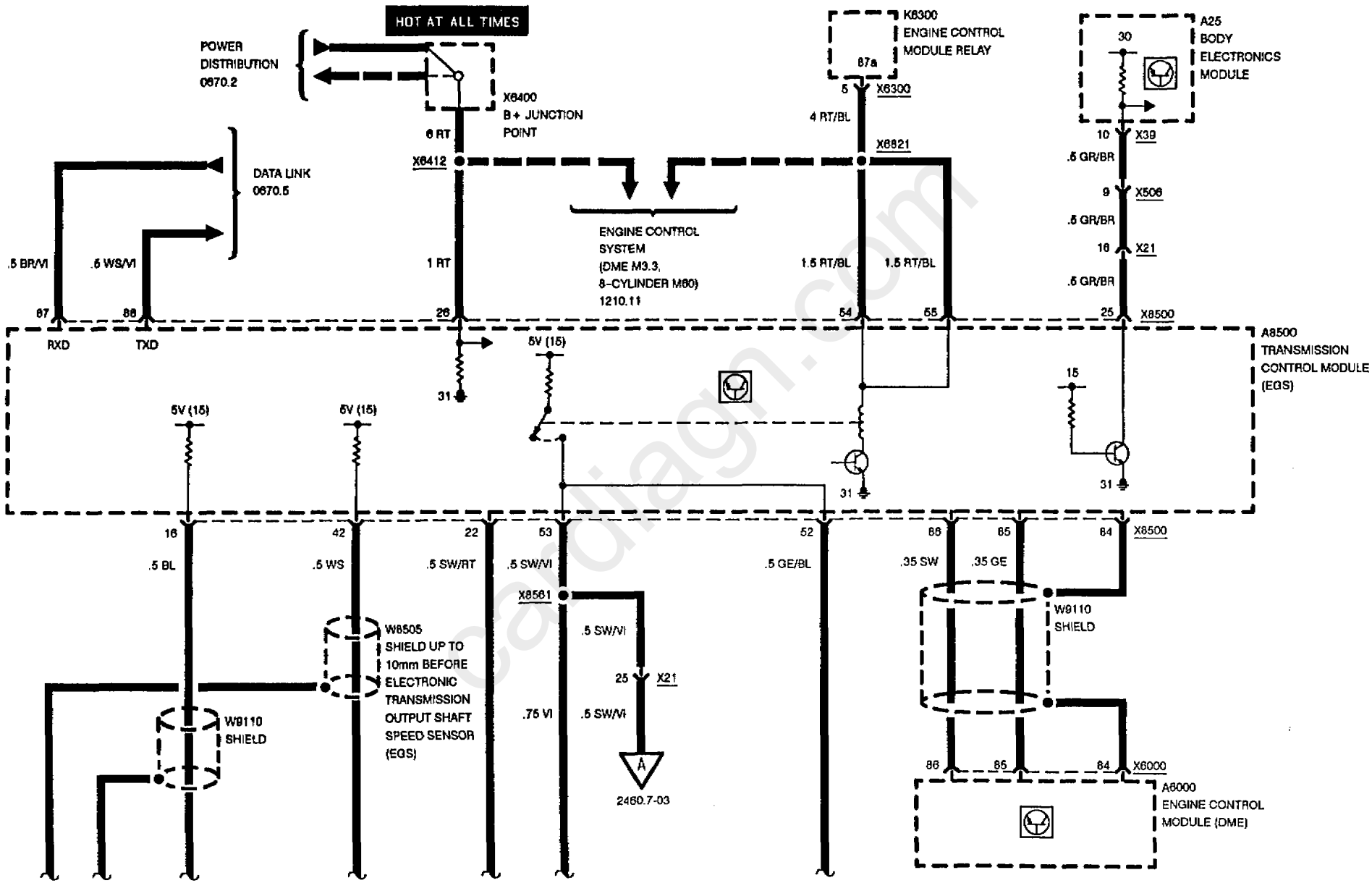
Pin	Type	Description/Function	Connection
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82		Not used	
83		Not used	
84	M	Ground shield	Engine control module, A6000
85	E/A	CAN-L	Engine control module, A6000
86	E/A	CAN-H	Engine control module, A6000
87	E	RxD	Data link connector, RxD
88	E/A	TxD	Data link connector, TxD

E = Input, A = Output, M = Ground

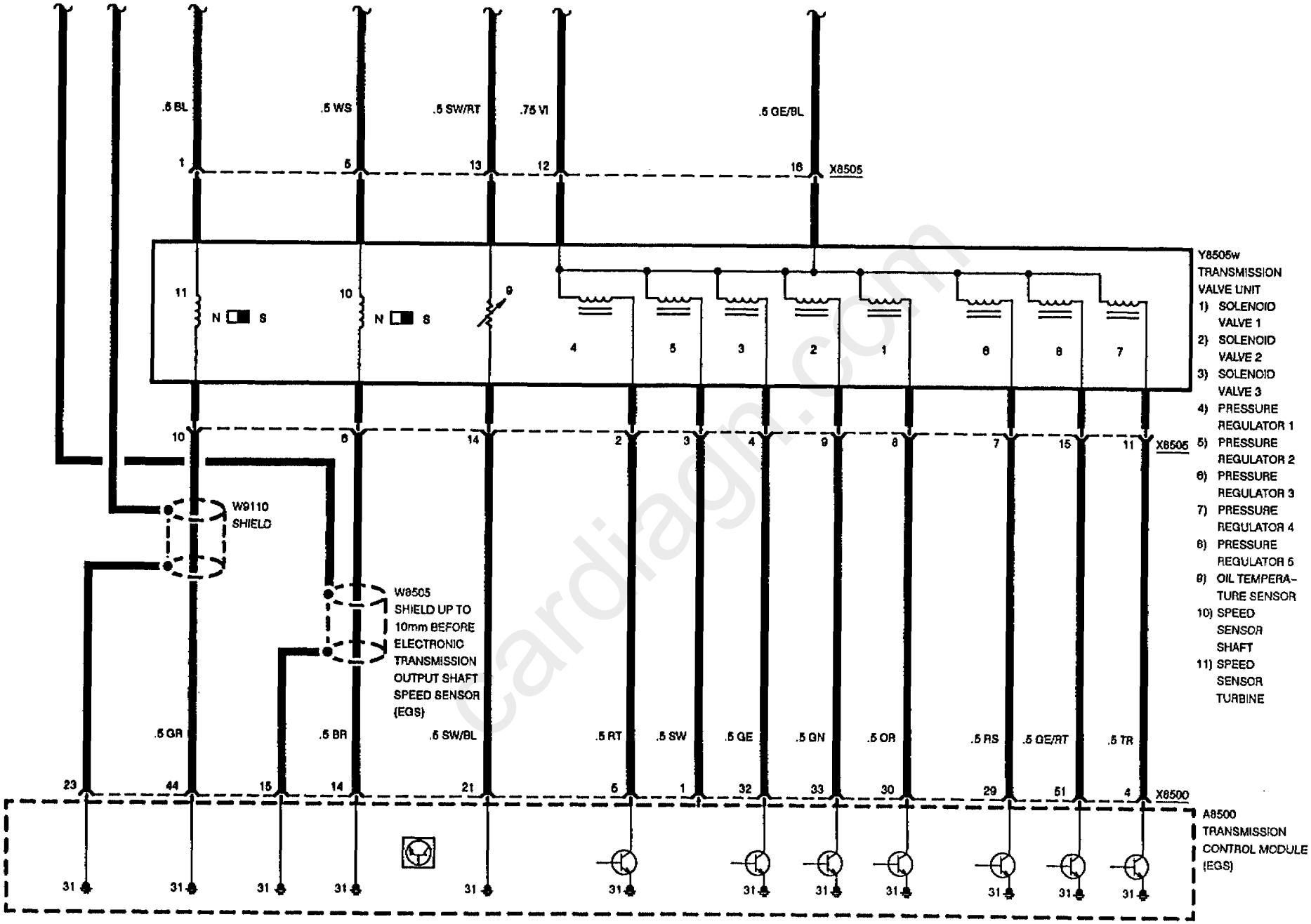
cardiagn.com

ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/ A5S 560Z)

840Ci

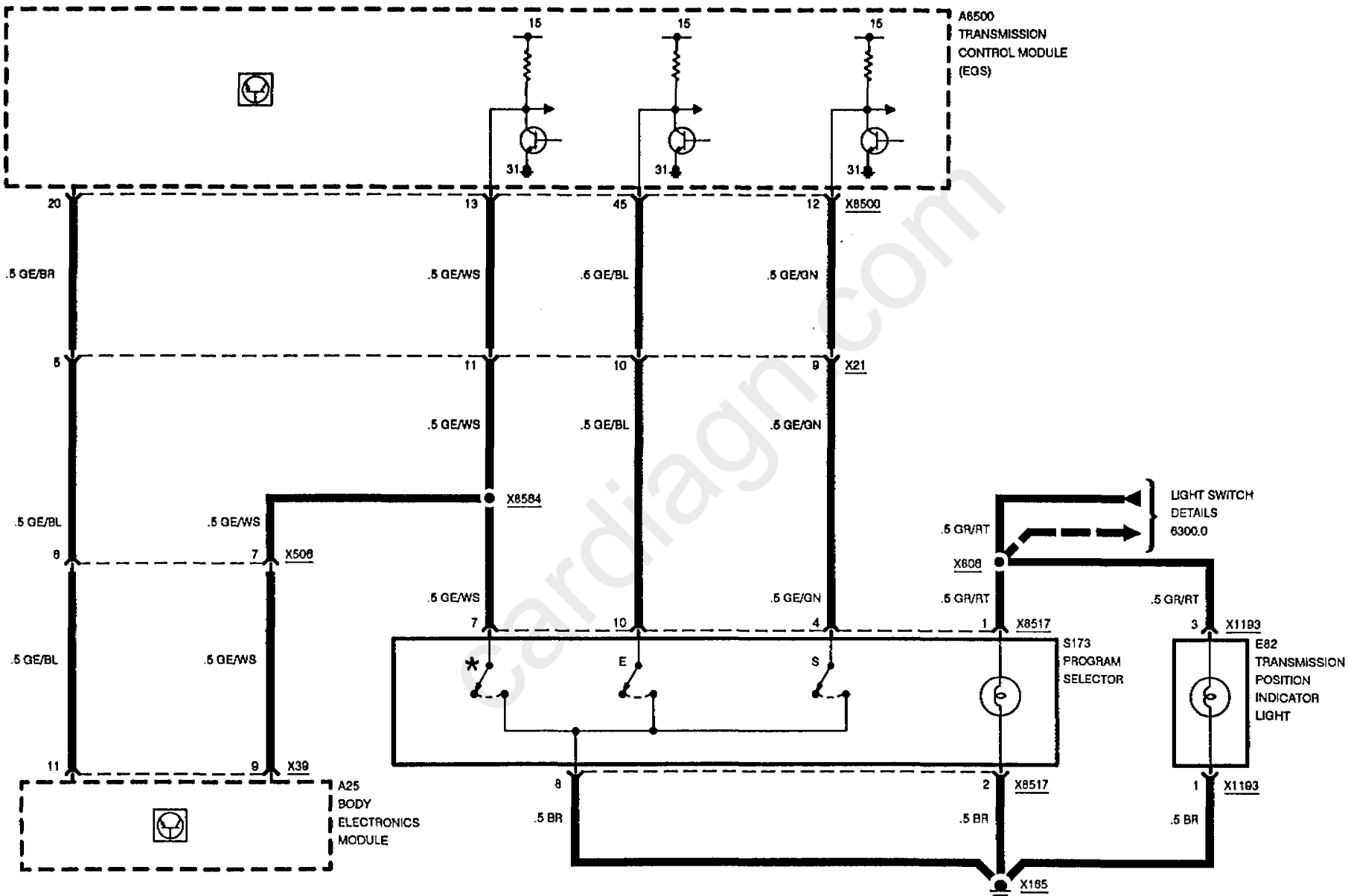


cardiagn.com



cardiagn.com

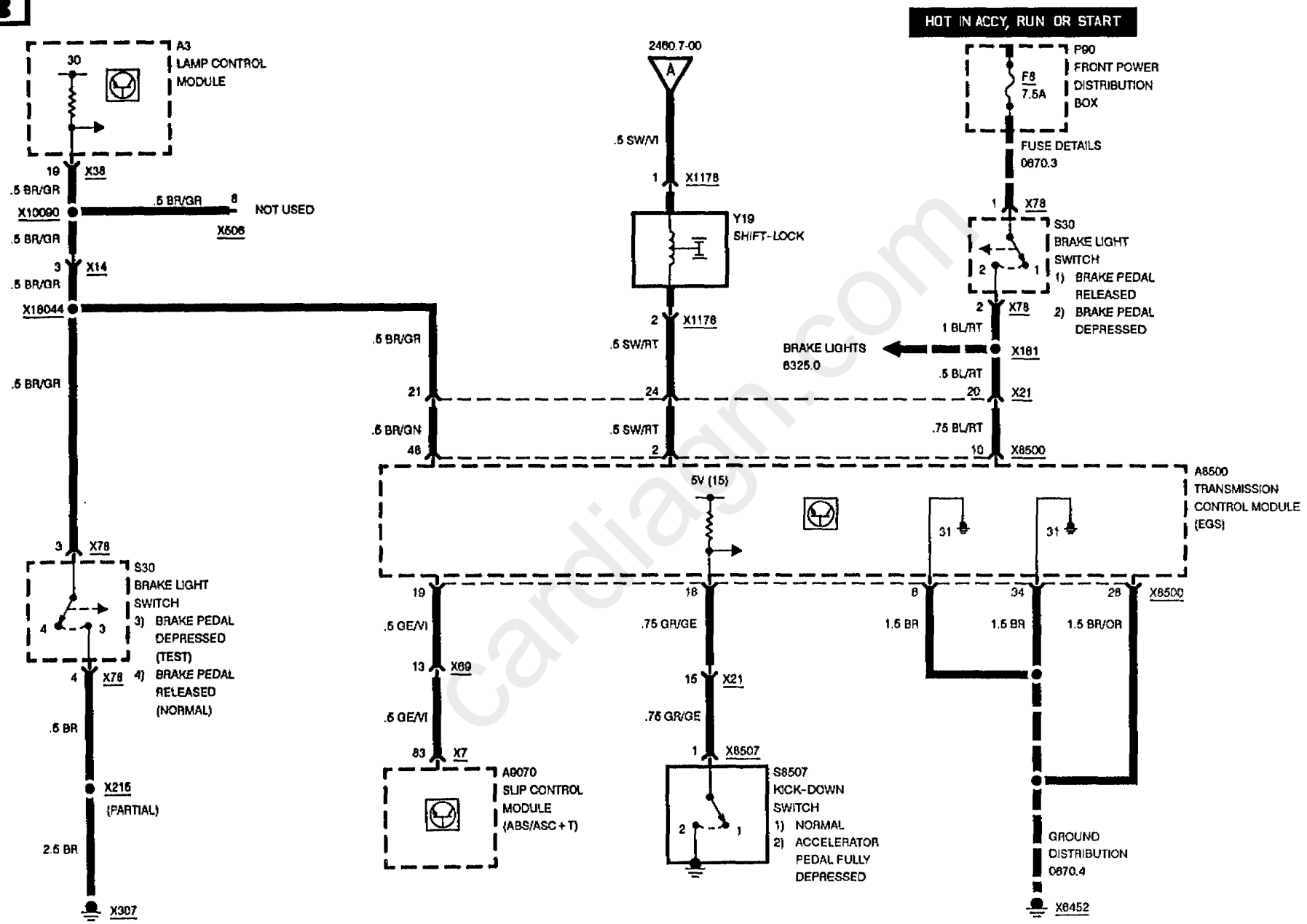
ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/ A5S 560Z)



cardiagn.com

ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/ A5S 560Z)

840Ci

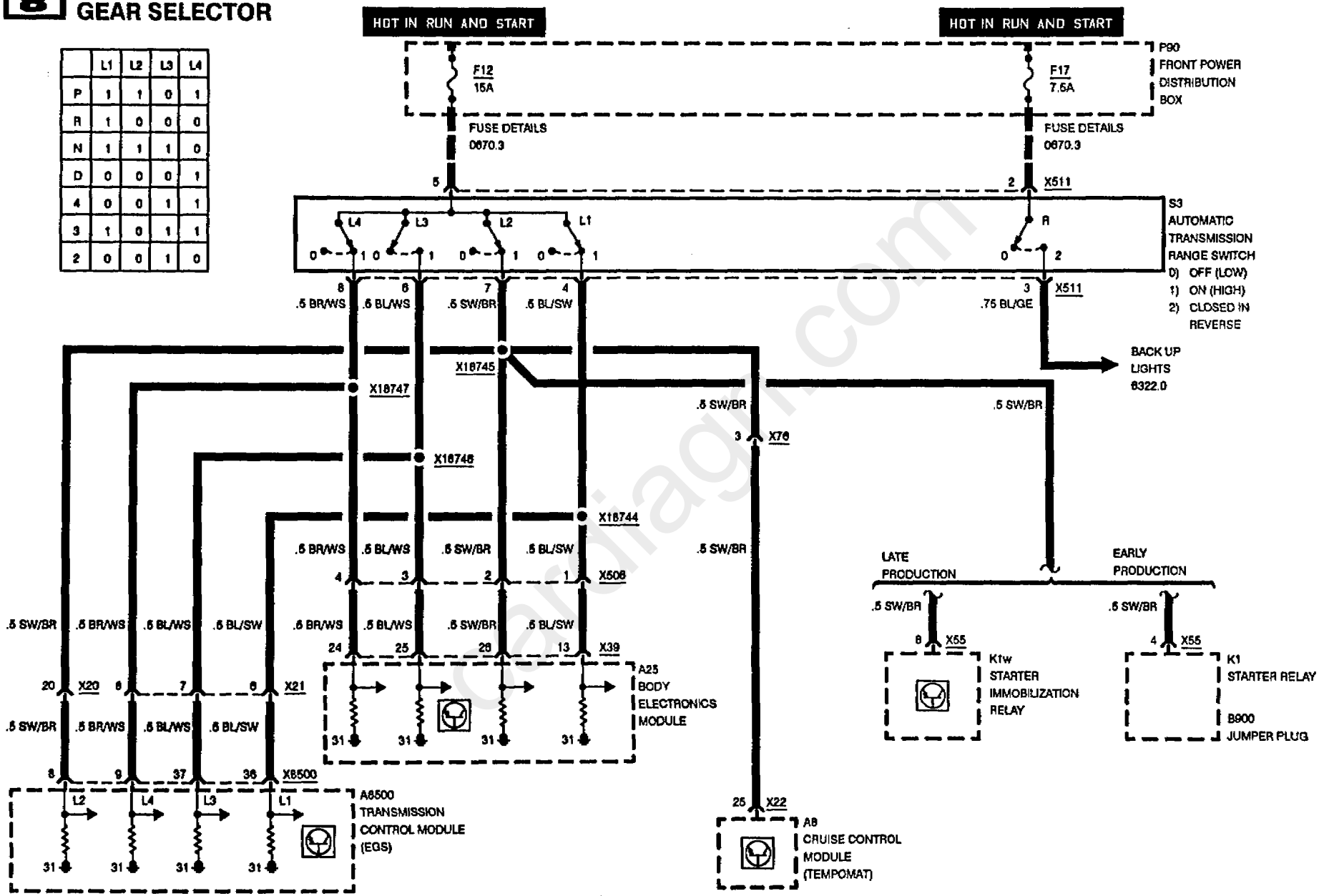


cardiagn.com

ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/ A5S 560Z) 840Ci

GEAR SELECTOR

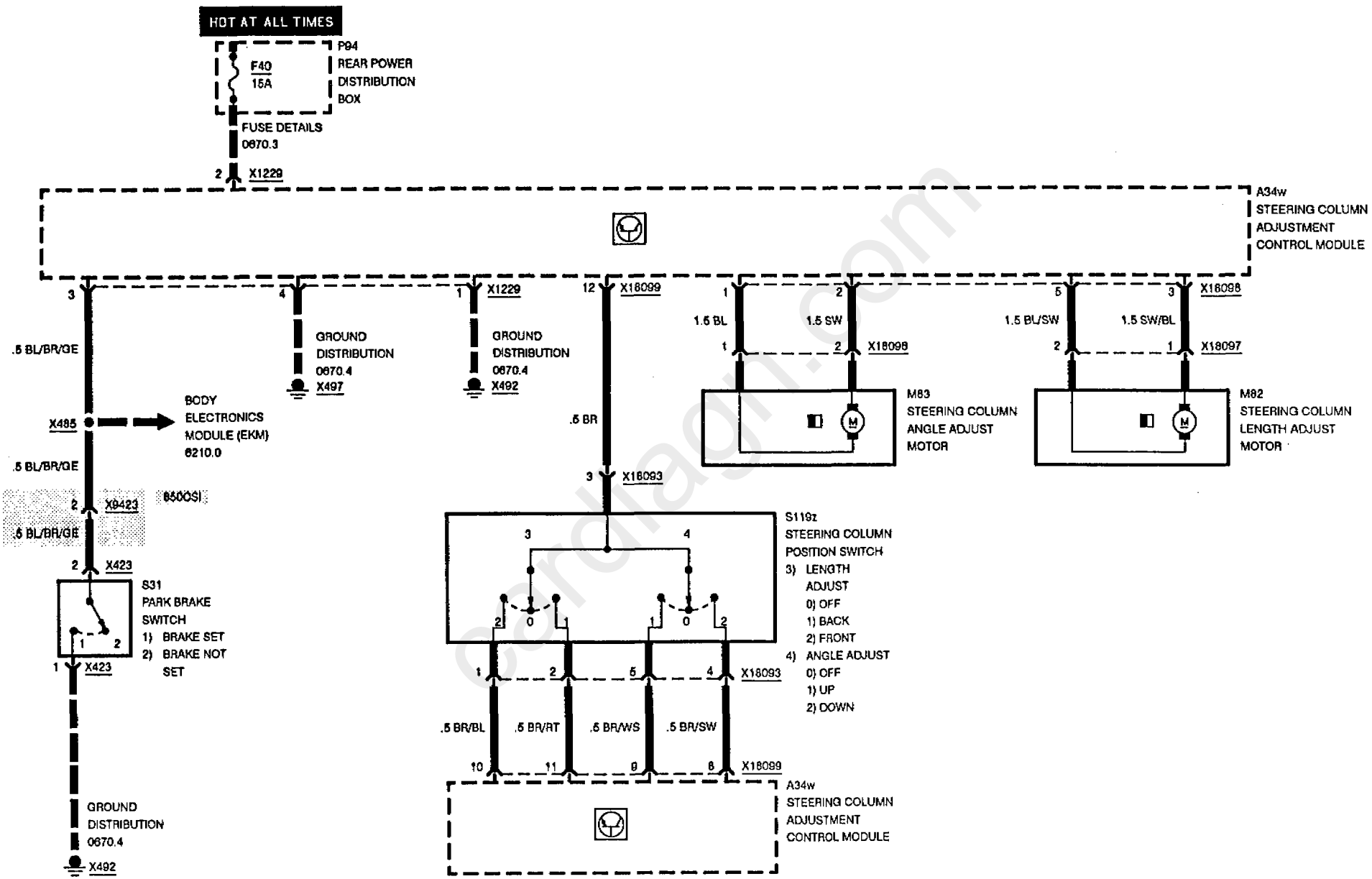
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0



carlagr.com

cardiagn.com

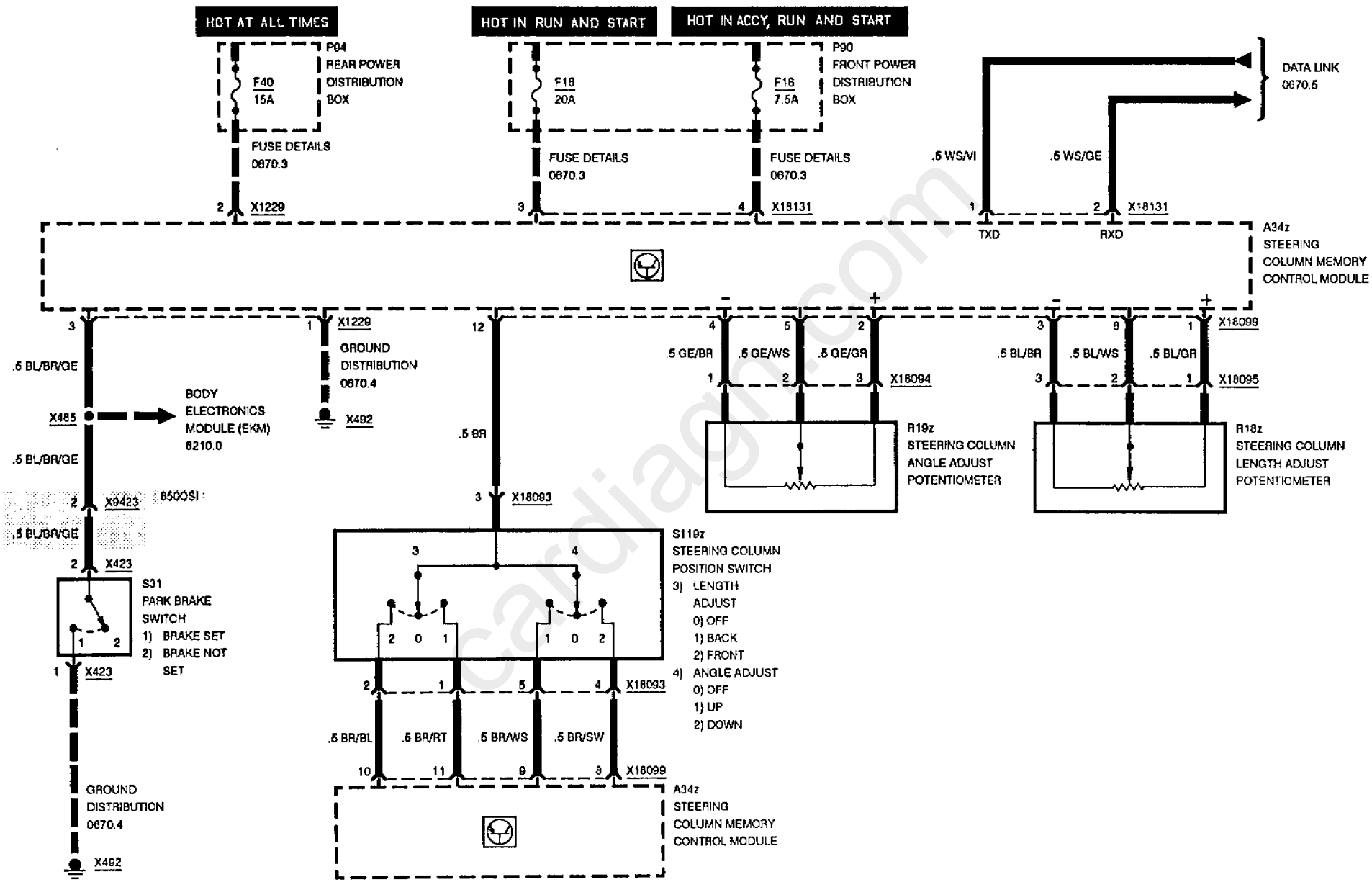
ELECTRIC STEERING COLUMN ADJUSTMENT



cardiagn.com

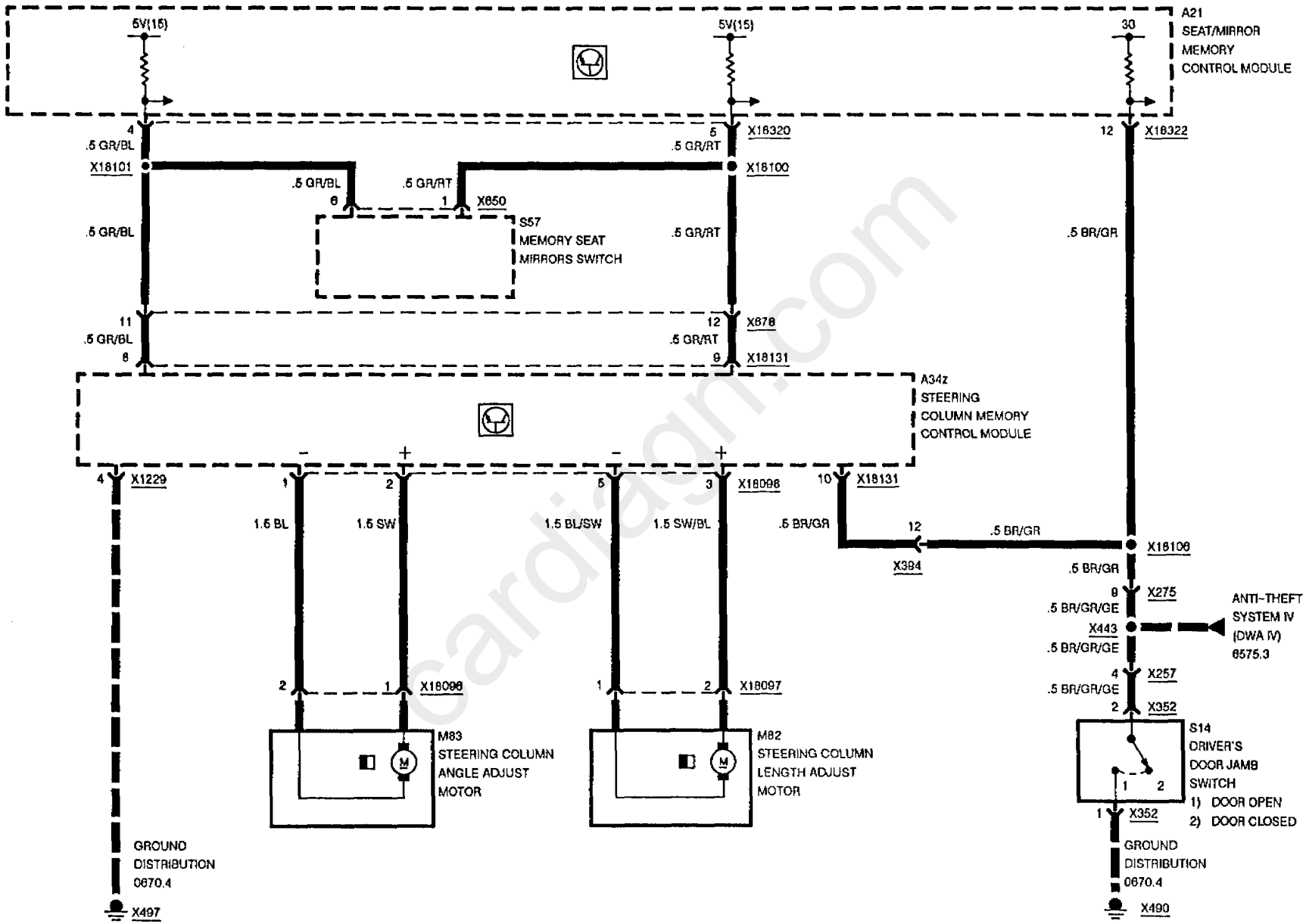
cardiagn.com

STEERING COLUMN MEMORY (LSM)



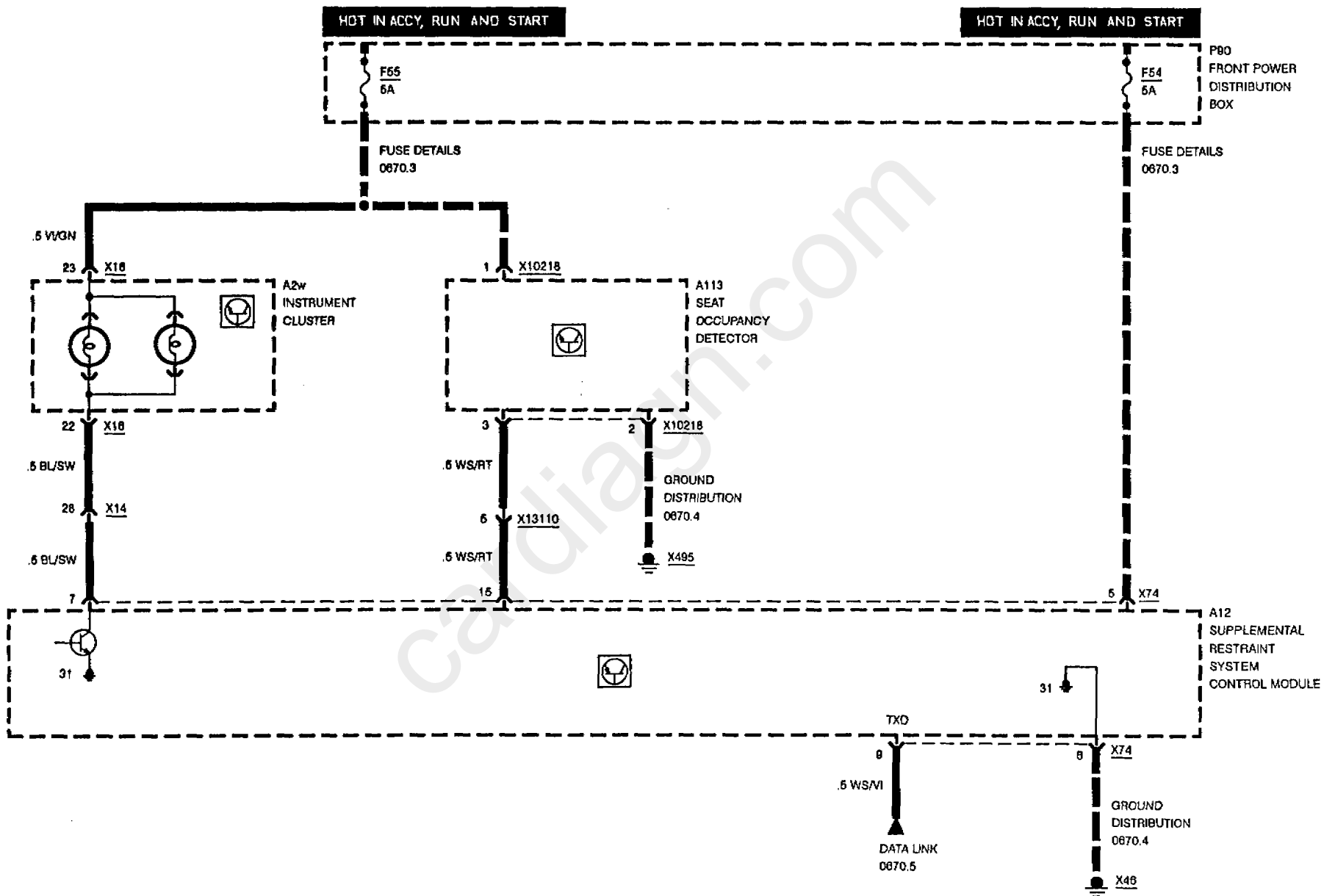
cardiagn.com

STEERING COLUMN MEMORY (LSM)



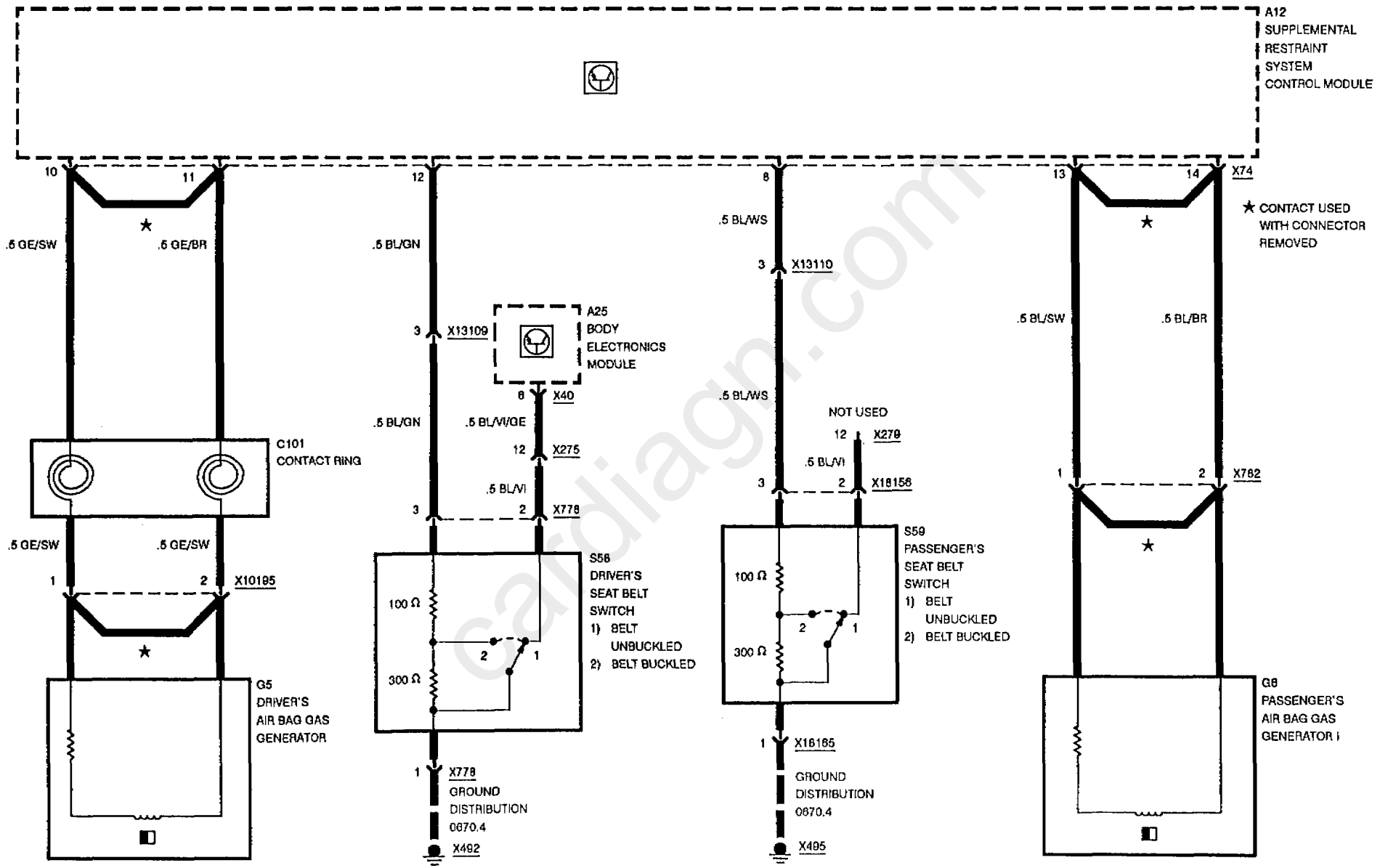
cardiagn.com

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



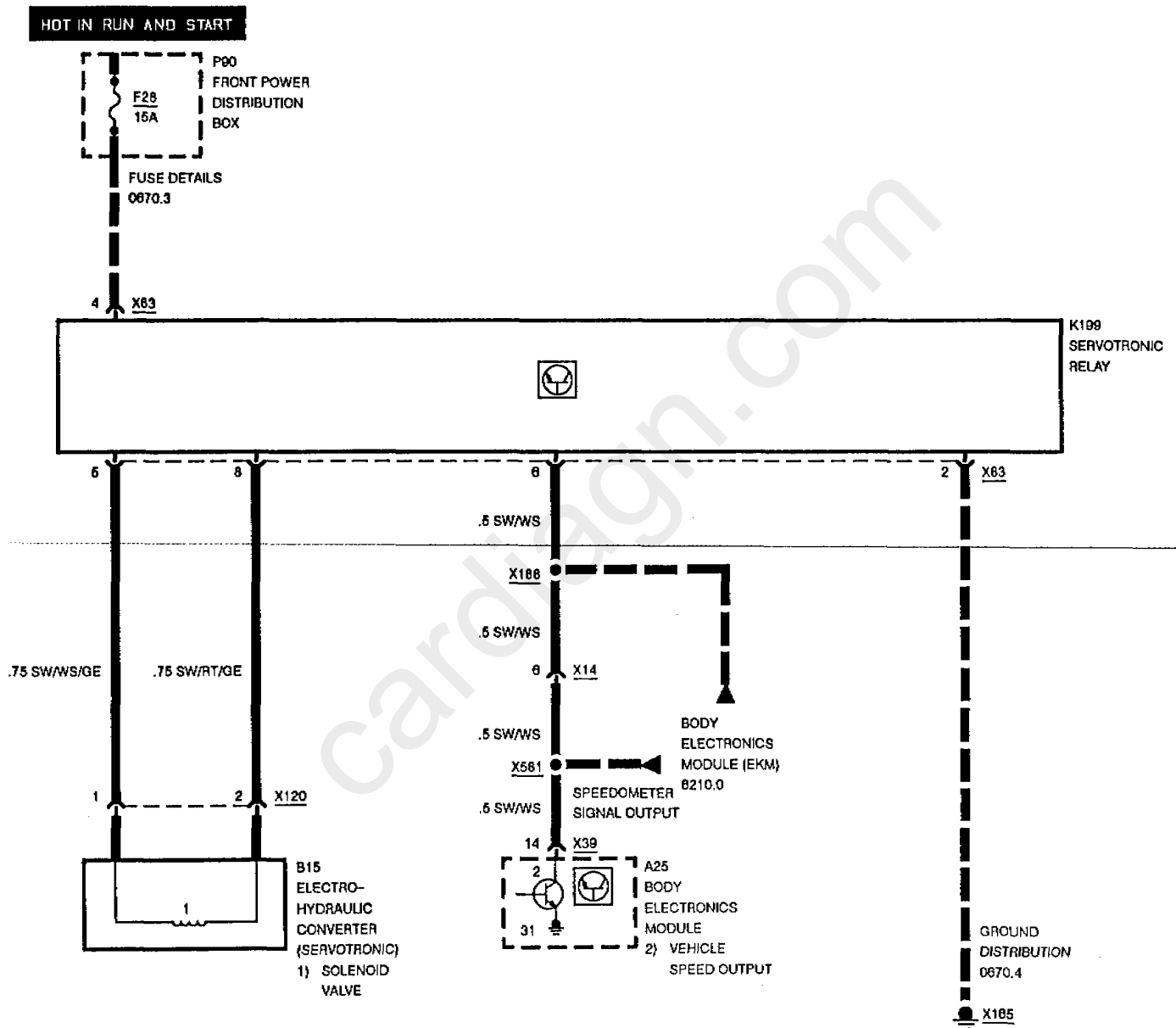
cardiagn.com

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



cardiagn.com

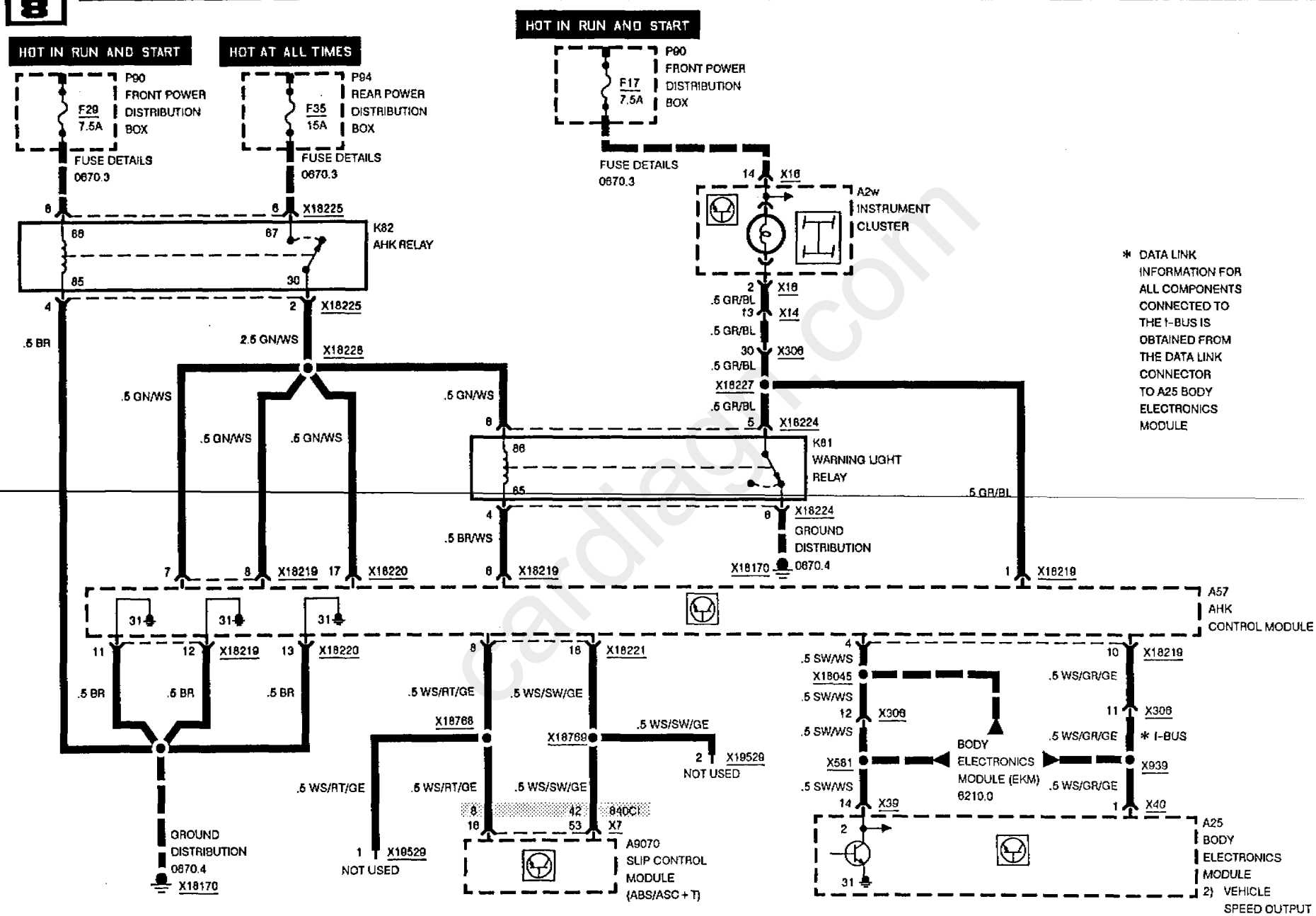
POWER ASSIST STEERING (SERVOTRONIC)



cardiagn.com

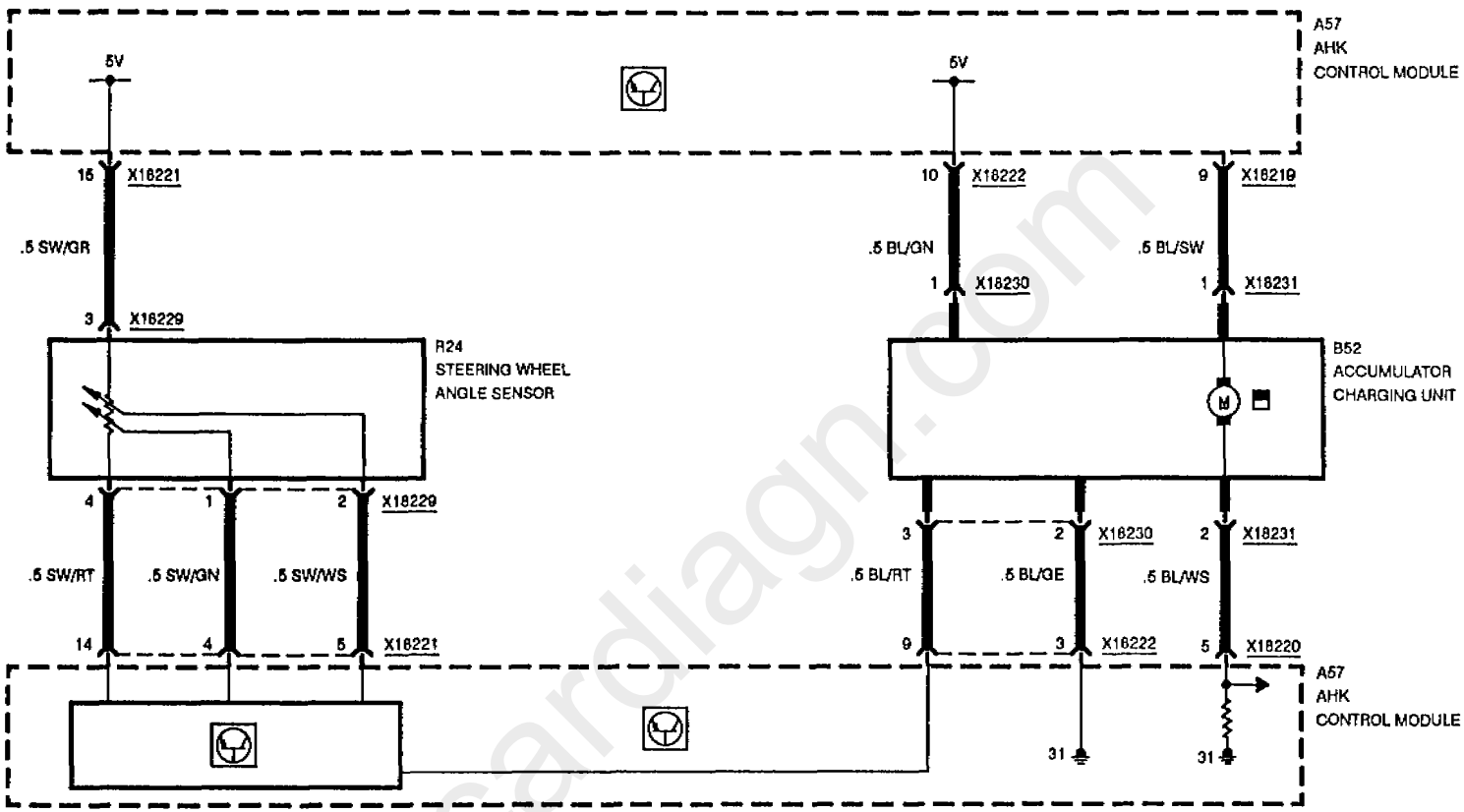
carldiagn.com

BMW 8 — ACTIVE REAR AXLE KINEMATICS (AHK)



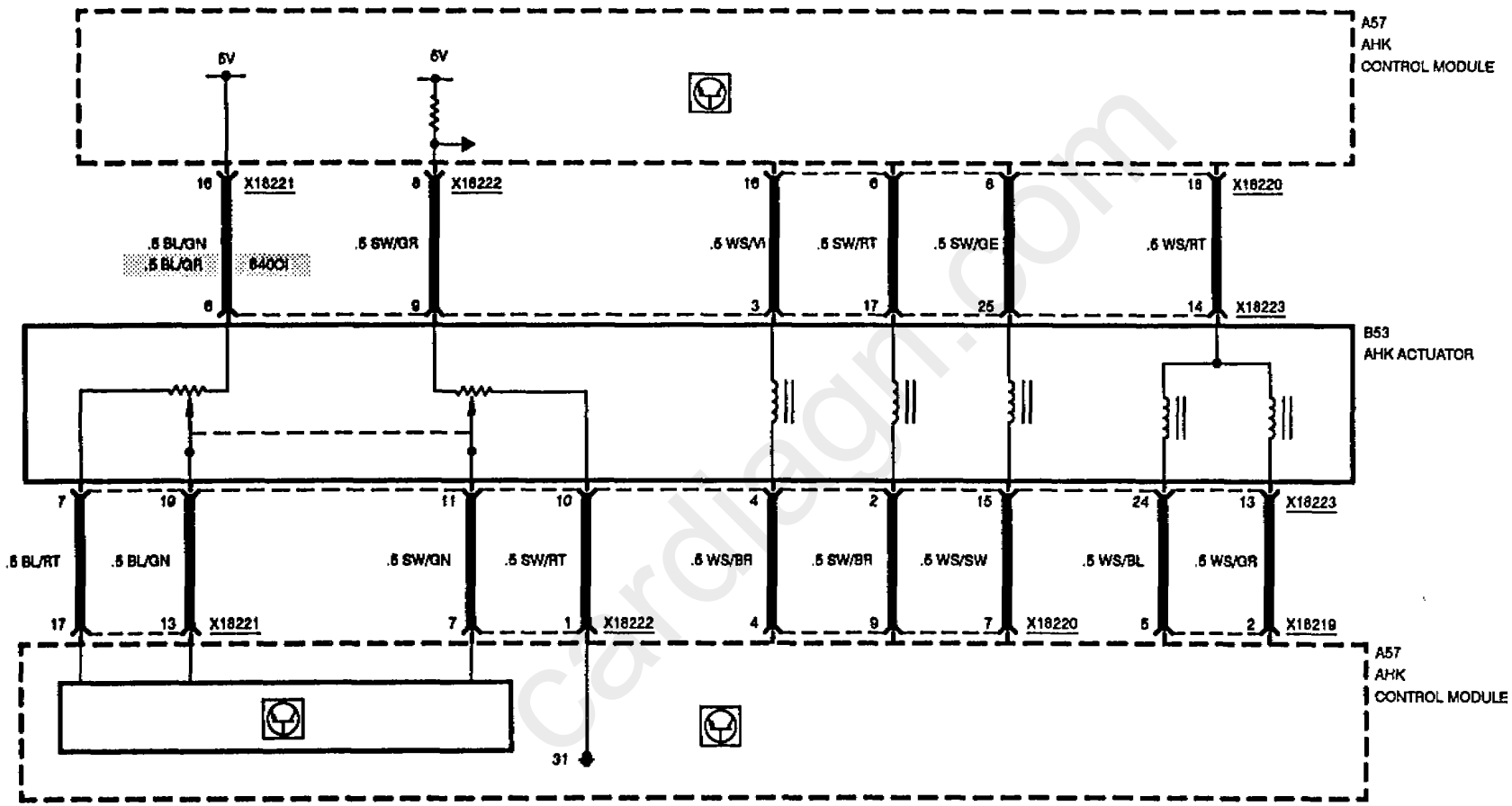
cardiagn.com

ACTIVE REAR AXLE KINEMATICS (AHK)



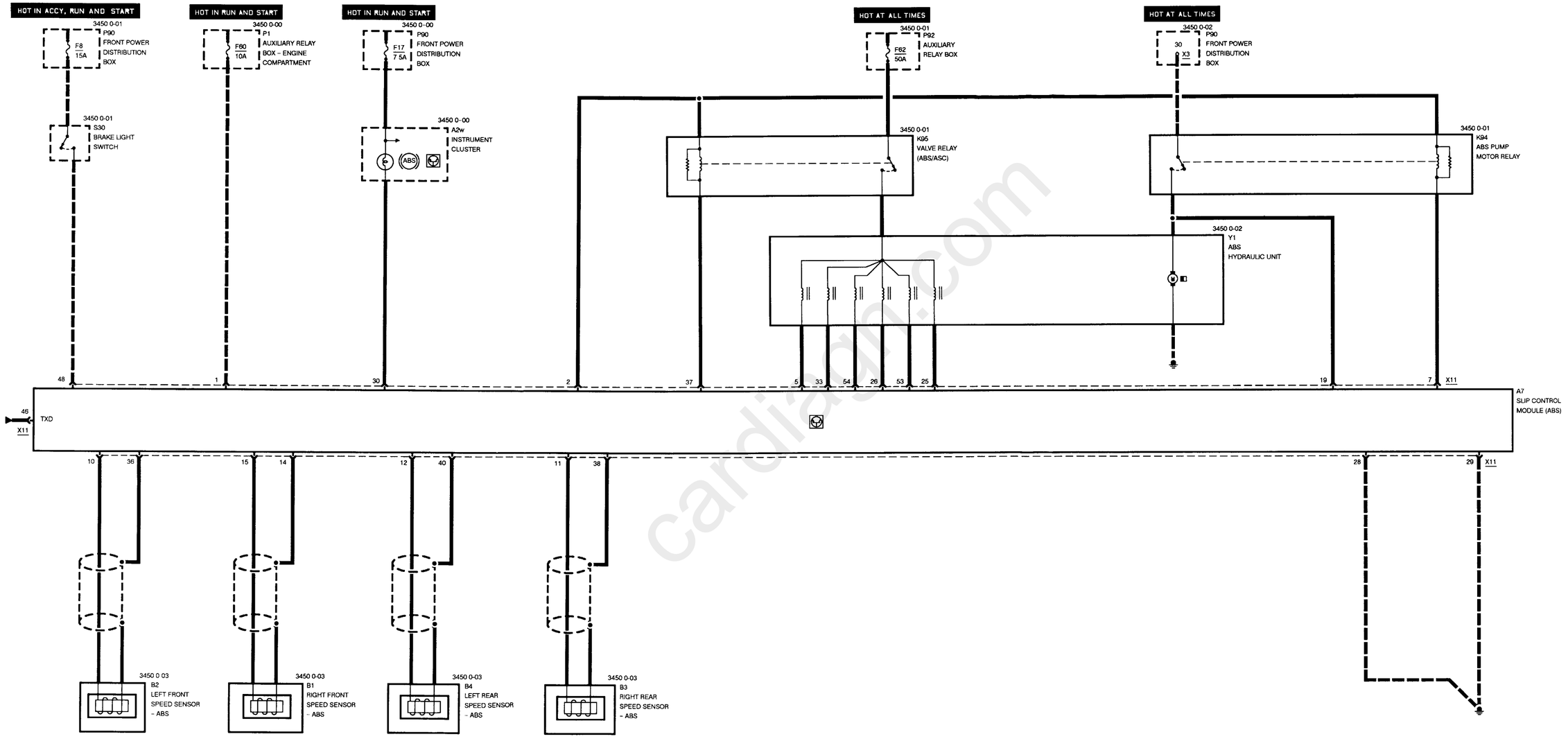
cardiagn.com

ACTIVE REAR AXLE KINEMATICS (AHK)



cardiagn.com

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



cardiagn.com

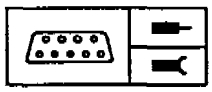
Pin Assignments

X11

Pin	Type	Description/Function	Connection
1	E	Battery voltage	Engine control module relay
2	A	ABS valve relay, ABS engine control relay	ABS valve relay, ABS engine control relay
3		Not used	
4		Not used	
5	A	Left front inlet relay	ABS hydraulic unit
6		Not used	
7	A	Voltage signal ABS engine control relay	Engine control relay (ABS)
8		Not used	
9		Not used	
10	A	Left front speed sensor ground	Left front speed sensor
11	E	Right rear speed sensor voltage signal	Right rear speed sensor (ABS)
12	A	Left rear speed sensor ground	Left rear speed sensor
13		Not used	
14	A	Right front speed sensor ground	Right front speed sensor
15	E	Right front speed sensor voltage	Right front speed sensor (ABS)
16		Not used	
17		Not used	
18		Not used	
19	E	Plug signal	ABS engine control relay
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25	A	Rear axle outlet valve	ABS hydraulic unit
26	A	Right front outlet valve	ABS hydraulic unit
27		Not used	ABS hydraulic unit
28	M	Ground	Ground point

E = Input, A = Output, M = Ground

cartiagn.com

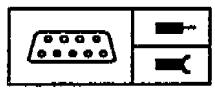


Pin Assignments

Pin	Type	Description/Function	Connection
29	M	Ground	Ground point
30	A	Voltage signal, ABS warning lamp	Instrument cluster
31		Not used	
32		Not used	
33	A	Left front outlet valve	ABS hydraulic unit
34		Not used	
35		Not used	
36	E	Left front speed sensor voltage signal	Left front speed sensor (ABS)
37	A	Voltage signal, ABS valve relay	ABS valve relay
38	A	Right rear speed sensor ground	Right rear speed sensor
39		Not used	
40	E	Left rear speed sensor voltage signal	Left rear speed sensor (ABS)
41		Not used	
42		Not used	
43		Not used	
44		Not used	
45		Not used	
46	E/A	TxD diagnostic data line	Data link connector
47		Not used	
48	E	Brake light signal	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53	A	Rear axle inlet valve	ABS hydraulic unit
54	A	Right front inlet valve	ABS hydraulic unit
55		Not used	
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	

E = Input, A = Output, M = Ground

cardiagn.com



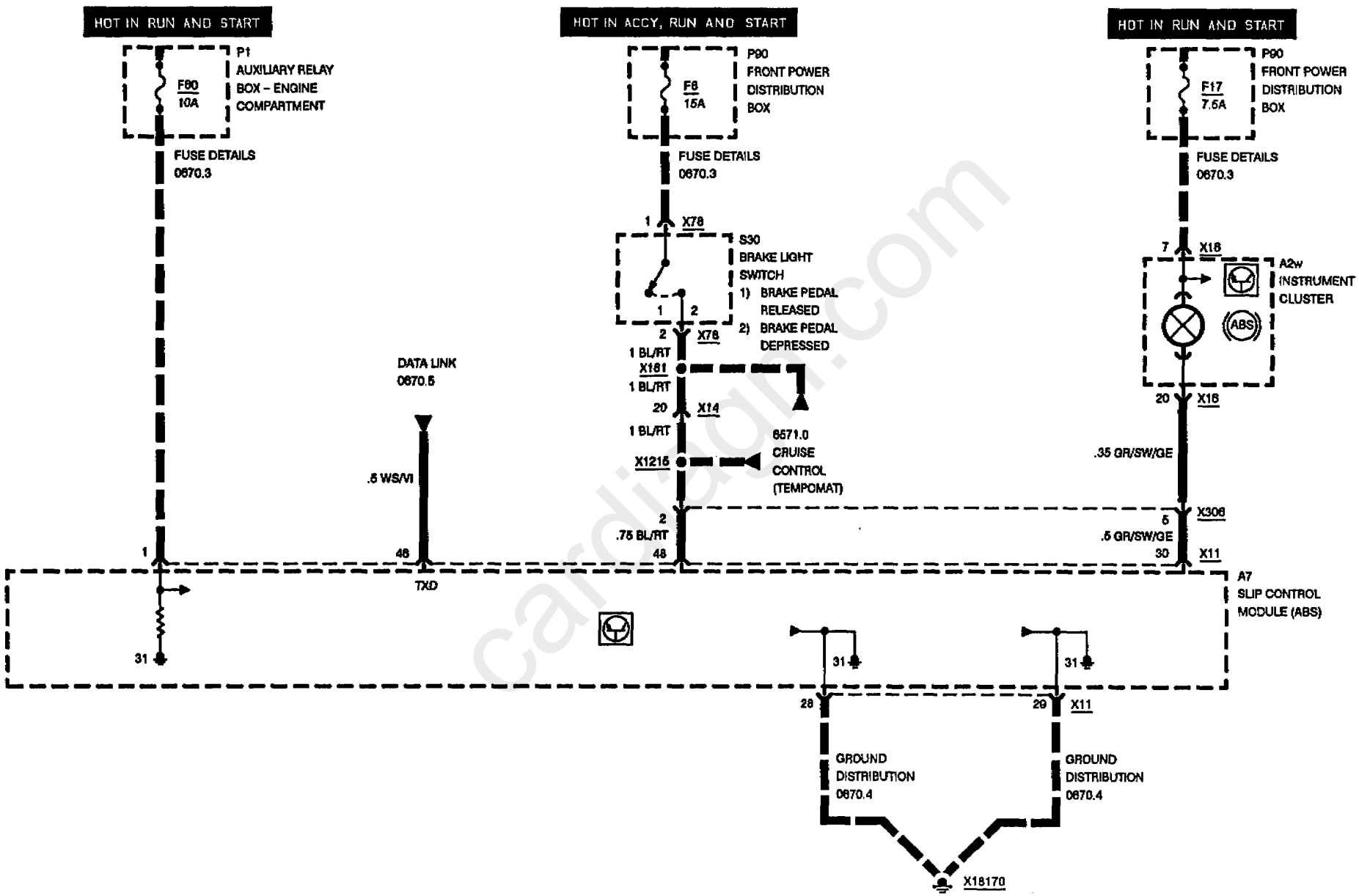
Pin Assignments

Pin	Type	Description/Function	Connection
61		Not used	
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82		Not used	
83		Not used	
84		Not used	
85		Not used	
86		Not used	
87		Not used	
88		Not used	

E = Input, A = Output, M = Ground

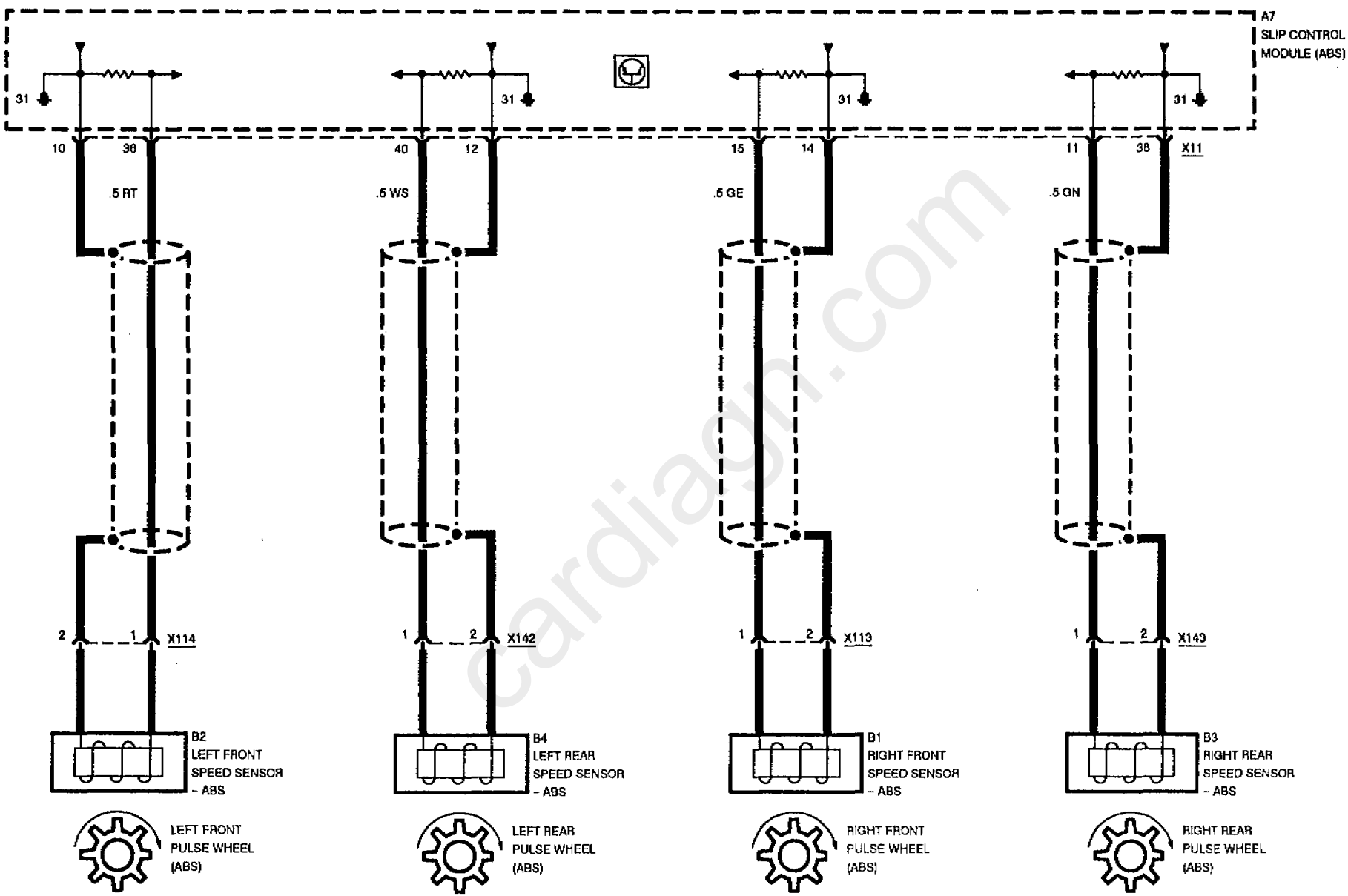
cardiagn.com

SLIP CONTROL (ABS)



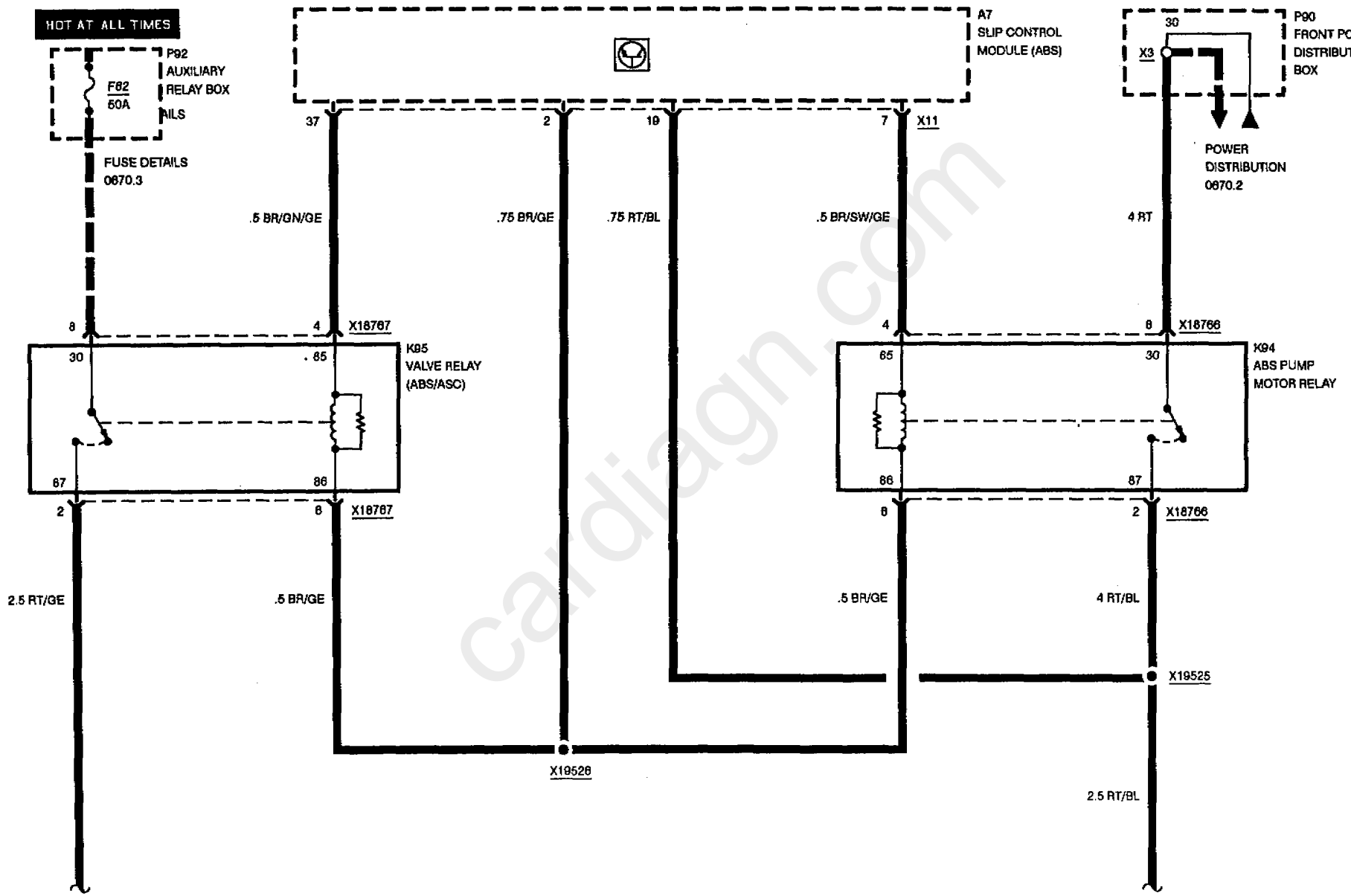
cardiagn.com

SLIP CONTROL (ABS)

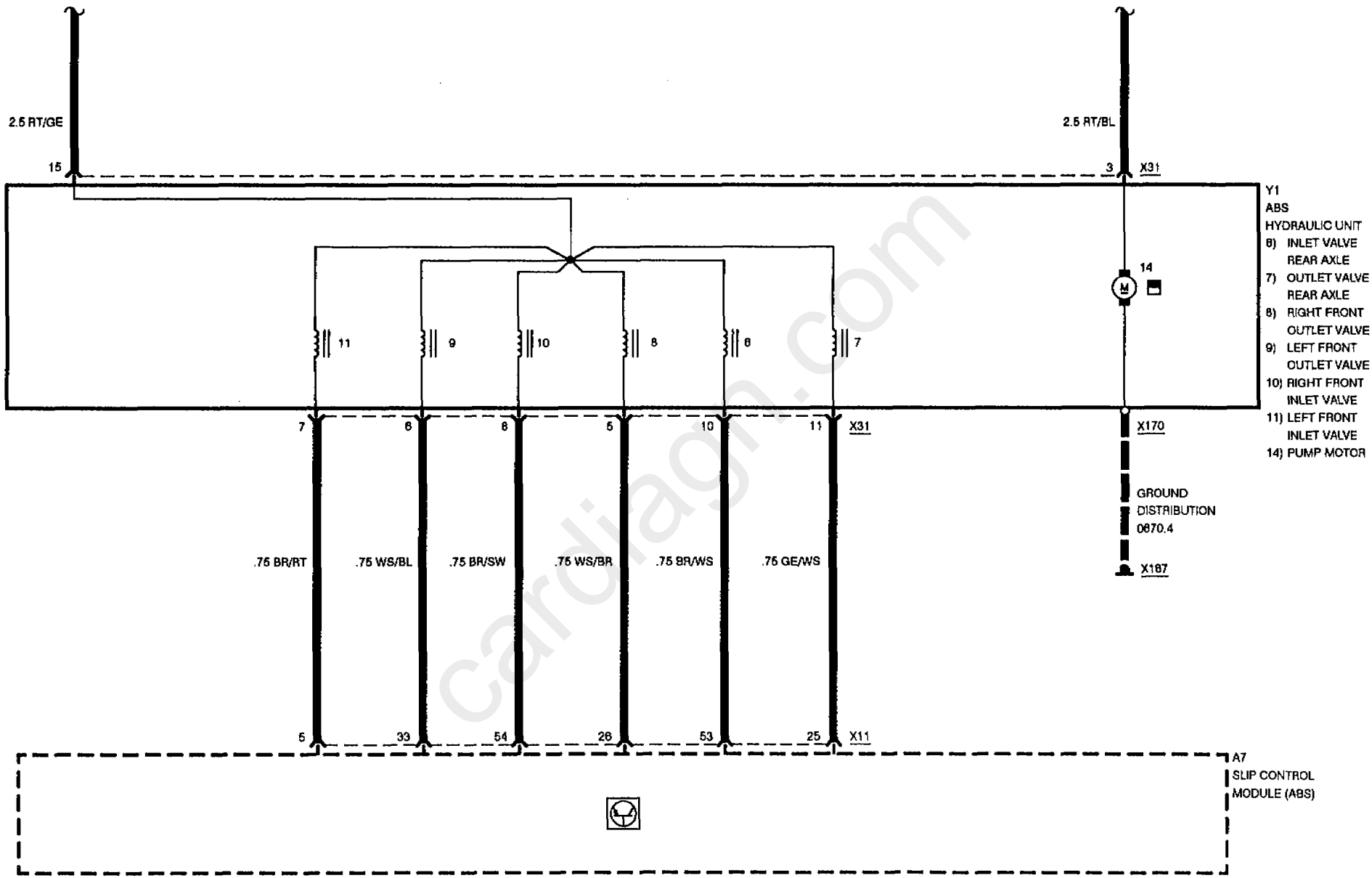


cardiagn.com

SLIP CONTROL (ABS)



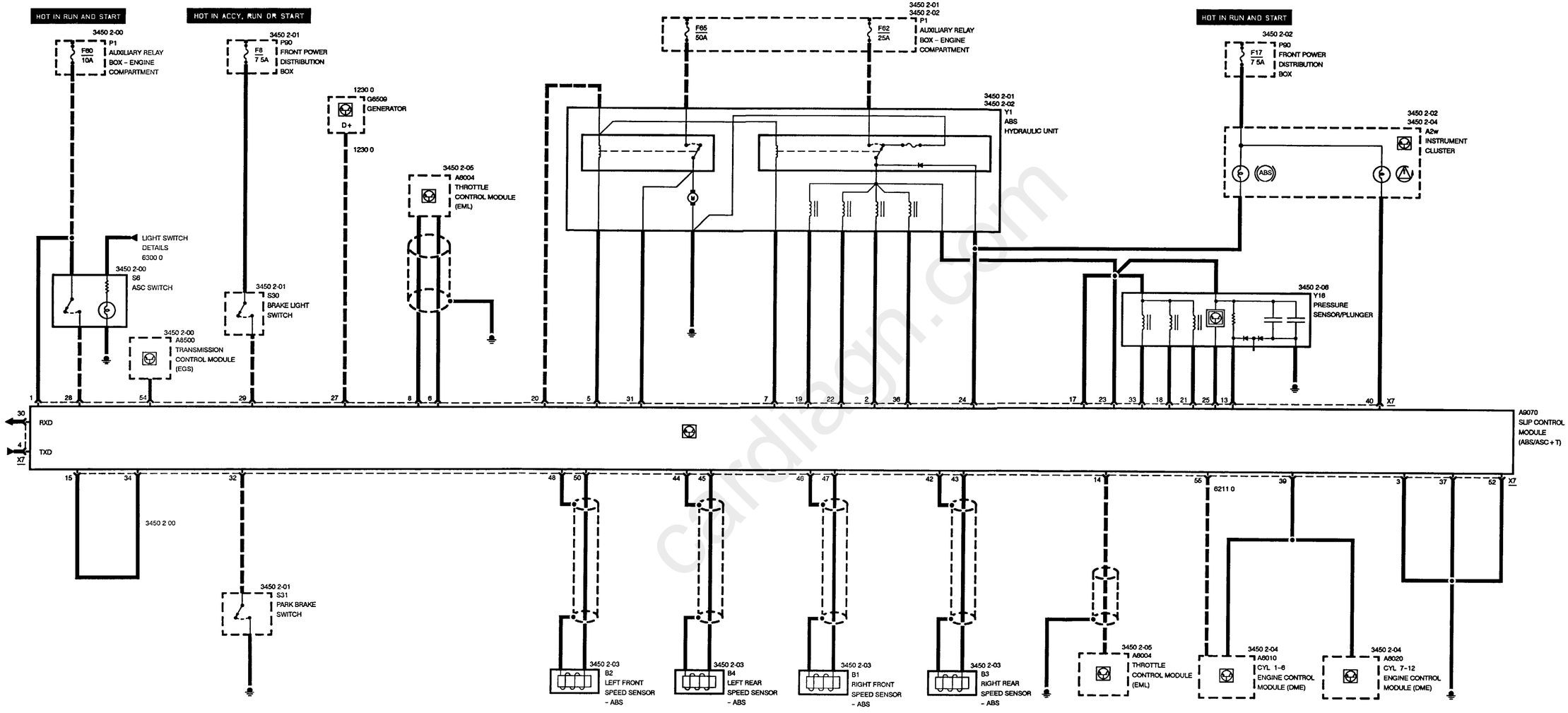
cardiagn.com



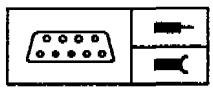
cardiagn.com

carldiagn.com

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



cardiagn.com



Pin Assignments

X7

Pin	Type	Description/Function	Connection
1	E	Terminal 15	Fuse
2	A	Rear left solenoid valve activation	ABS hydraulic unit
3	M	Ground	Ground point
4	E/A	TxD diagnostic data line	Data link connector
5	A	Pump relay activation	ABS hydraulic unit
6	A	Throttle valve angle reduction (DKR)	Electronic throttle control module (EML)
7	A	Valve relay activation	ABS hydraulic unit
8	A	Throttle valve angle increase (DKE)	Electronic throttle control module (EML)
9		Not used	
10		Not used	
11		Not used	
12		Not used	
13	E	Operating pressure signal	Pressure sensor/plunger
14	E	Throttle valve position	Electronic throttle control module (EML)
15	A	Coding plug for manual transmission	Pin 34 (stabilized voltage)
16	E	Signal line AHK	Control module AHK (850CSi)
17	E	Voltage signal, valve relay	ABS hydraulic unit
18	A	Rear right plunger valve activation	Pressure sensor/plunger
19	A	Front left solenoid valve activation	ABS hydraulic unit
20	A	Voltage signal pump relay	ABS hydraulic unit
21	A	Rear left plunger valve activation	Pressure sensor/plunger
22	A	Front right solenoid valve activation	ABS hydraulic unit
23	E	Voltage signal, valve relay	ABS hydraulic unit
24	E	Voltage signal ABS warning lamp	Instrument cluster
25	E	Accumulator warning pressure threshold	Pressure sensor/plunger
26		Not used	
27	E	Terminal 61 D+	Generator
28	E	ASC switch signal	ASC switch
29	E	Brake light signal	Brake light switch
30	E	RxD diagnostic data line	Data link connector

E = Input, A = Output, M = Ground

bmwdiagn.com

Pin Assignments

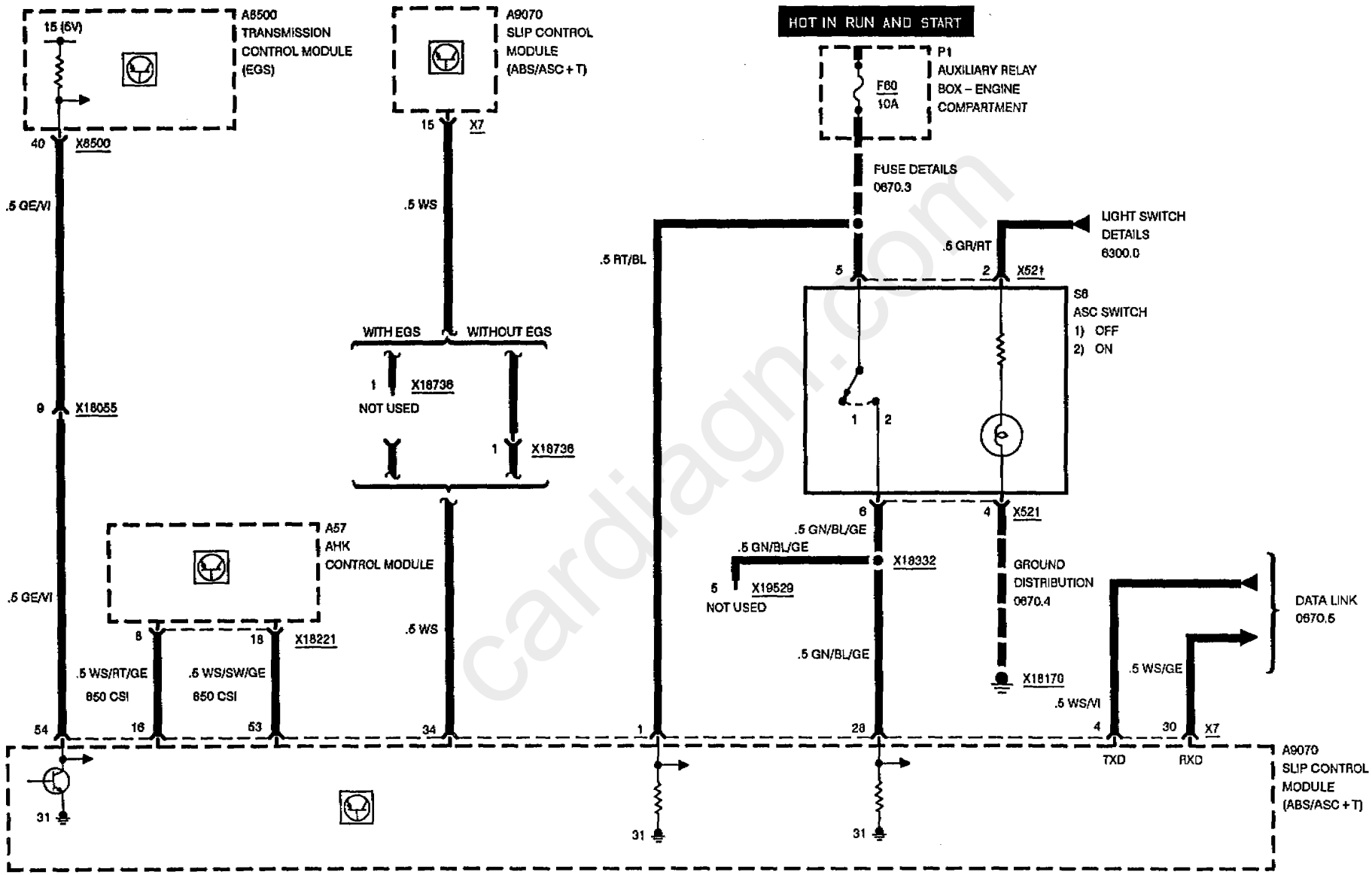
Pin	Type	Description/Function	Connection
31	E	Pump relay signal	ABS hydraulic unit
32	E	Park brake switch signal	Park brake switch
33	A	Recharging valve activation	Pressure sensor/plunger
34	E	Coding plug for manual transmission	Pin 15
35		Not used	
36	A	Rear right solenoid valve activation	ABS hydraulic unit
37	M	Ground	Ground point
38		Not used	
39	A	Ignition angle adjustment	Engine control modules (DME)
40	A	ASC multi-function lamp	Instrument cluster
41		Not used	
42	A	Right rear wheel speed sensor ground	Speed sensor
43	E	Right rear wheel speed signal	Speed sensor
44	A	Left rear wheel speed sensor ground	Speed sensor
45	E	Left rear wheel speed signal	Speed sensor
46	A	Right front wheel speed sensor ground	Speed sensor
47	E	Right front wheel speed signal	Speed sensor
48	A	Left front wheel speed sensor ground	Speed sensor
49		Not used	
50	E	Left front wheel speed signal	Speed sensor
51		Not used	
52	M	Ground	Ground point
53	E	Signal line AHK	Control module AHK (850CSi)
54	A	Signal, transmission intervention	Transmission control module (EGS)
55	E	RPM signal	Engine control module (DME)

E = Input, A = Output, M = Ground

carmagic.com

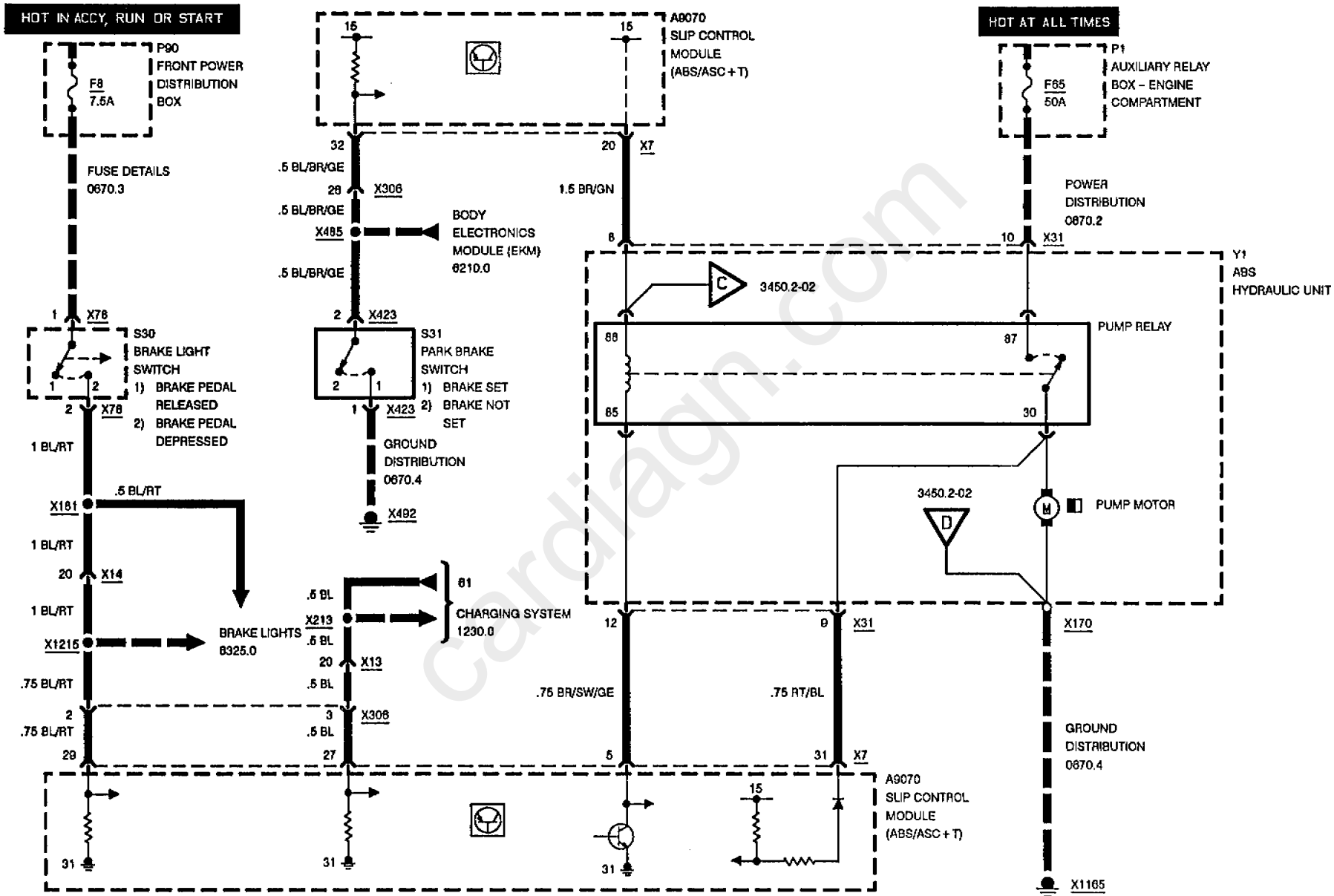
carldiagn.com

SLIP CONTROL (ABS/ASC+T)



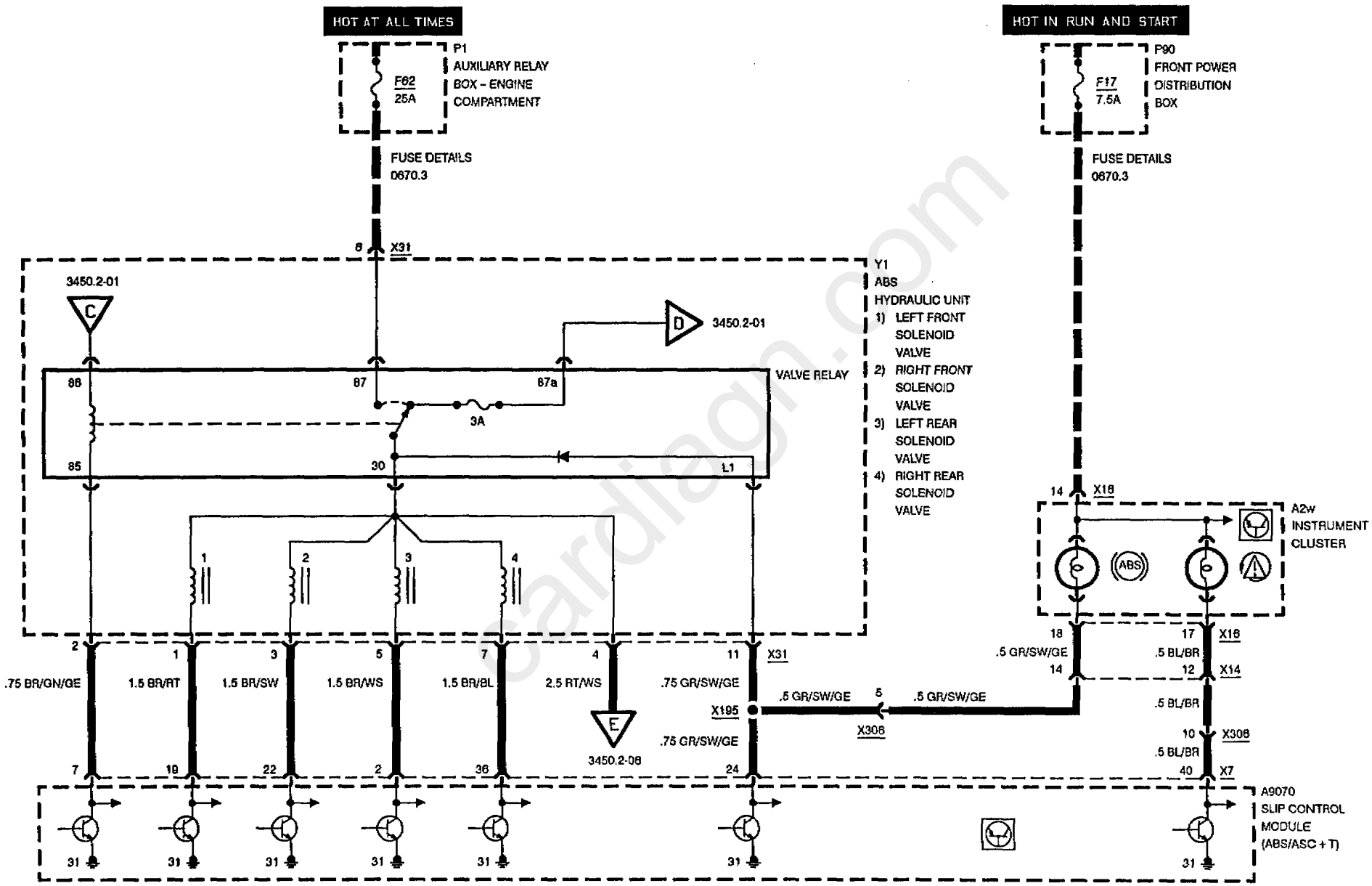
cardiagn.com

SLIP CONTROL (ABS/ASC+T)



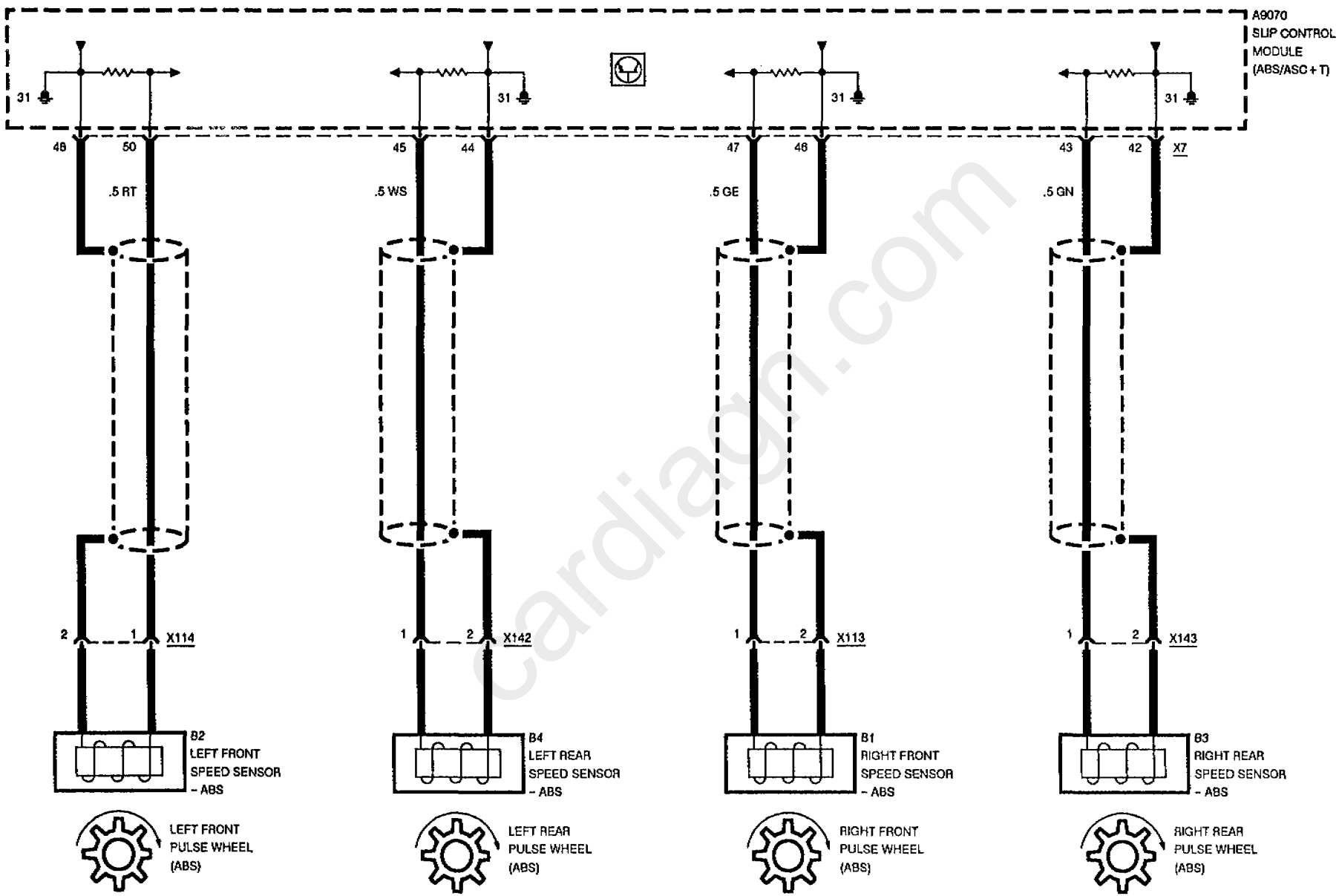
cardiagn.com

SLIP CONTROL (ABS/ASC+T)



cardiagn.com

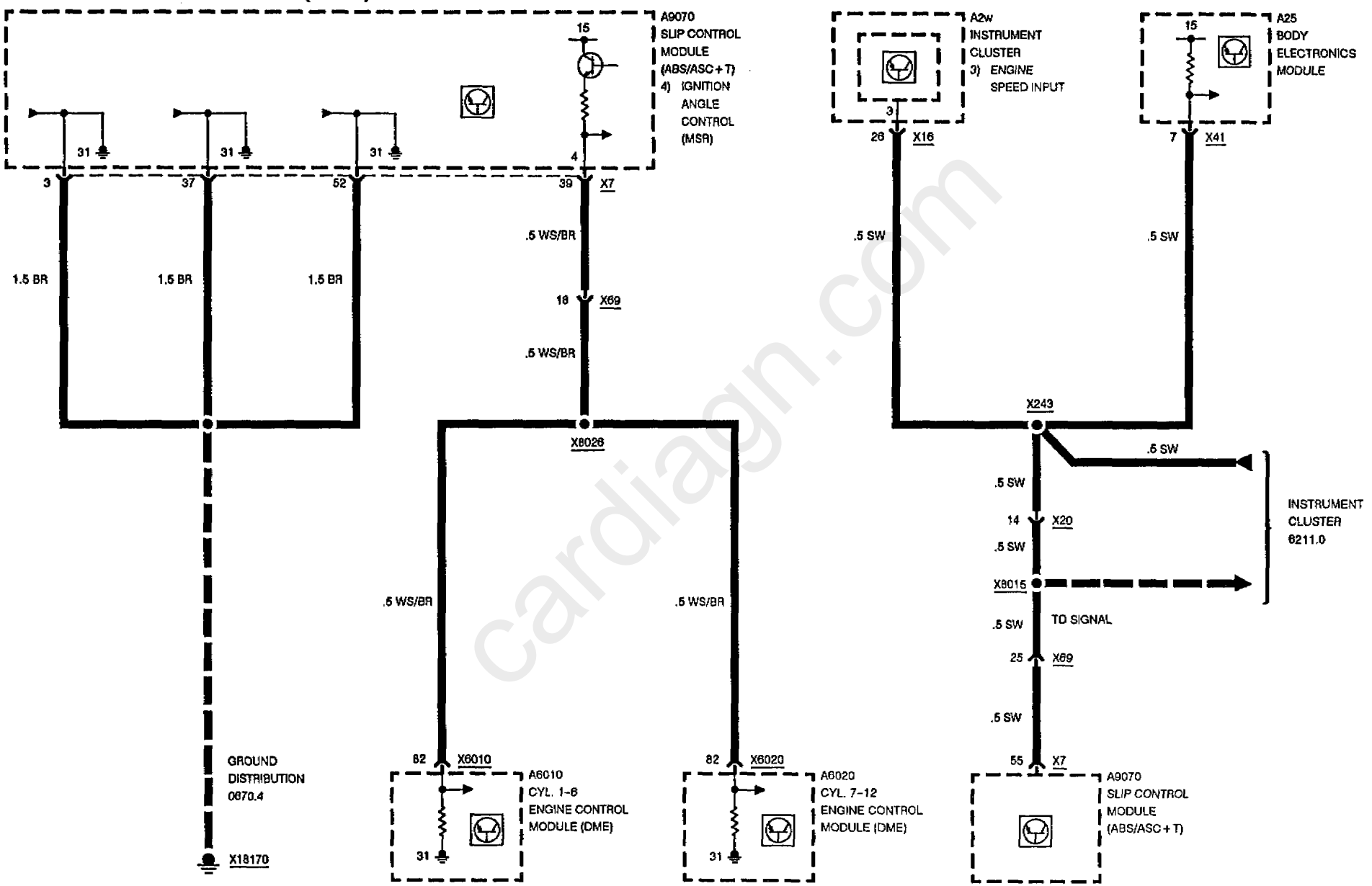
SLIP CONTROL (ABS/ASC+T)



cardiagn.com

SLIP CONTROL (ABS/ASC+T)

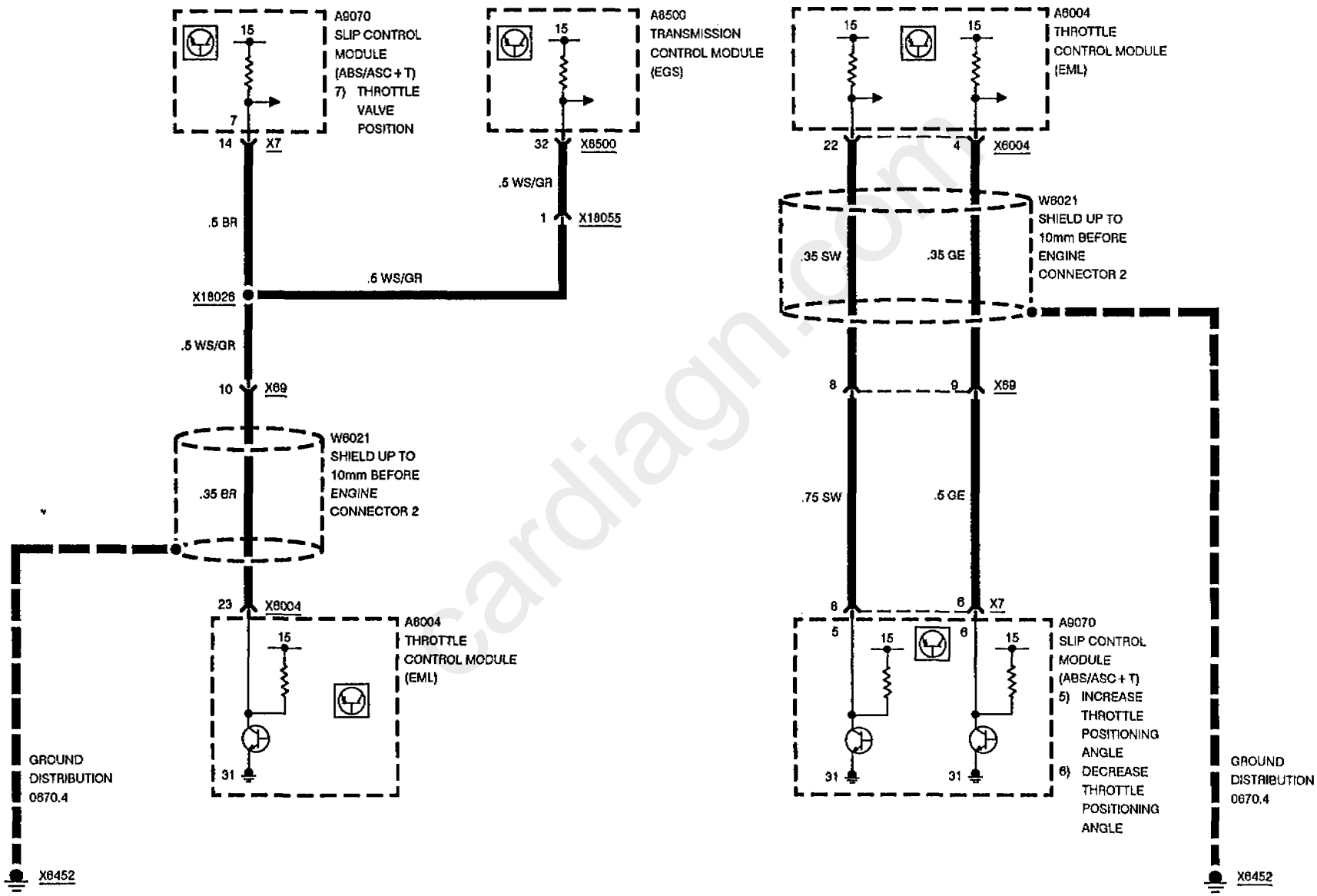
ENGINE CONTROL (DME) INTERFACE



cardiagn.com

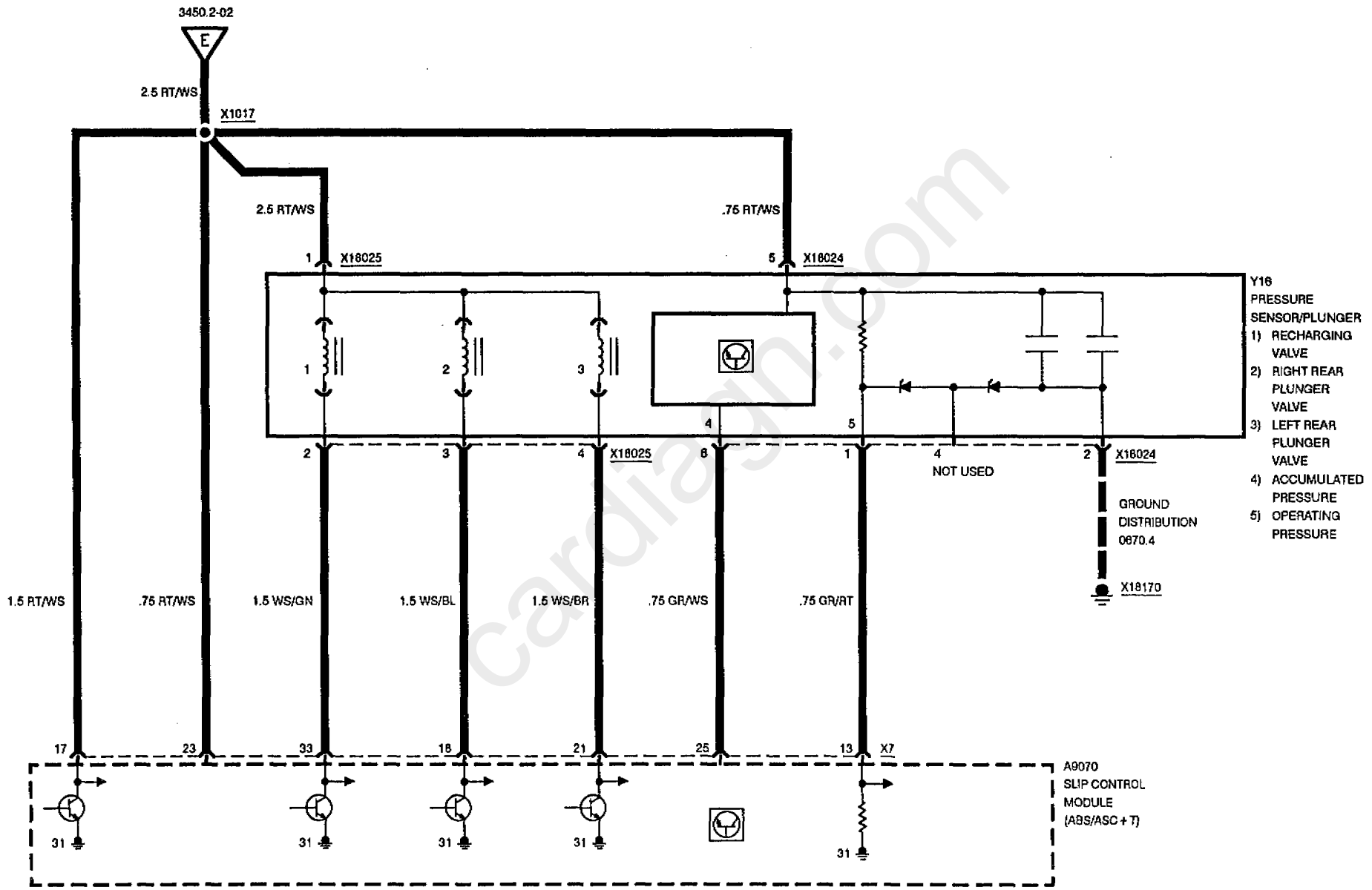
SLIP CONTROL (ABS/ASC+T)

EML INTERFACE



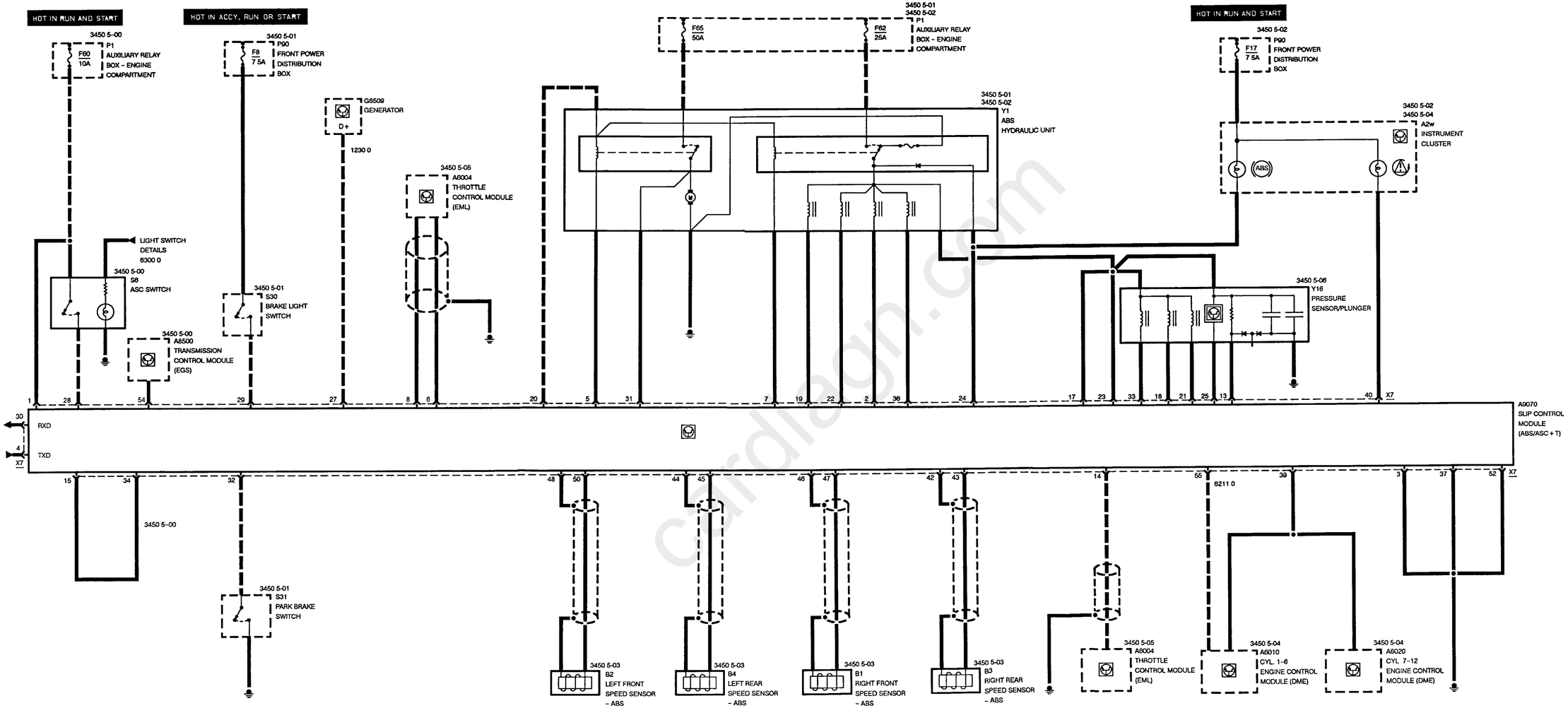
cardiagn.com

SLIP CONTROL (ABS/ASC+T)

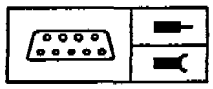


cardiagn.com

12/94 3450 5a 1994



cardiagn.com



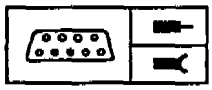
Pin Assignments

X7

Pin	Type	Description/Function	Connection
1	E	terminal 15	Fuse
2	A	Rear left solenoid valve activation	ABS hydraulic unit
3	M	Ground	Ground point
4	E/A	TxD diagnostic data line	Data link connector
5	A	Pump relay activation	ABS hydraulic unit
6	A	Throttle valve angle reduction (DKR)	Electronic throttle control module (EML)
7	A	Valve relay activation	ABS hydraulic unit
8	A	Throttle valve angle increase (DKE)	Electronic throttle control module (EML)
9		Not used	
10		Not used	
11		Not used	
12		Not used	
13	E	Operating pressure signal	Pressure sensor/plunger
14	E	Throttle valve position	Electronic throttle control module (EML)
15	A	Coding plug for manual transmission	Pin 34 (stabilized voltage)
16	E	Signal line AHK	Control module AHK (850CSi)
17	E	Voltage signal, valve relay	ABS hydraulic unit
18	A	Rear right plunger valve activation	Pressure sensor/plunger
19	A	Front left solenoid valve activation	ABS hydraulic unit
20	A	Voltage signal pump relay	ABS hydraulic unit
21	A	Rear left plunger valve activation	Pressure sensor/plunger
22	A	Front right solenoid valve activation	ABS hydraulic unit
23	E	Voltage signal, valve relay	ABS hydraulic unit
24	E	Voltage signal ABS warning lamp	Instrument cluster
25	E	Accumulator warning pressure threshold	Pressure sensor/plunger
26		Not used	
27	E	Terminal 61 D+	Generator
28	E	ASC switch signal	ASC switch
29	E	Brake light signal	Brake light switch
30	E	RxD diagnostic data line	Data link connector

E = Input, A = Output, M = Ground

Portofagn.com

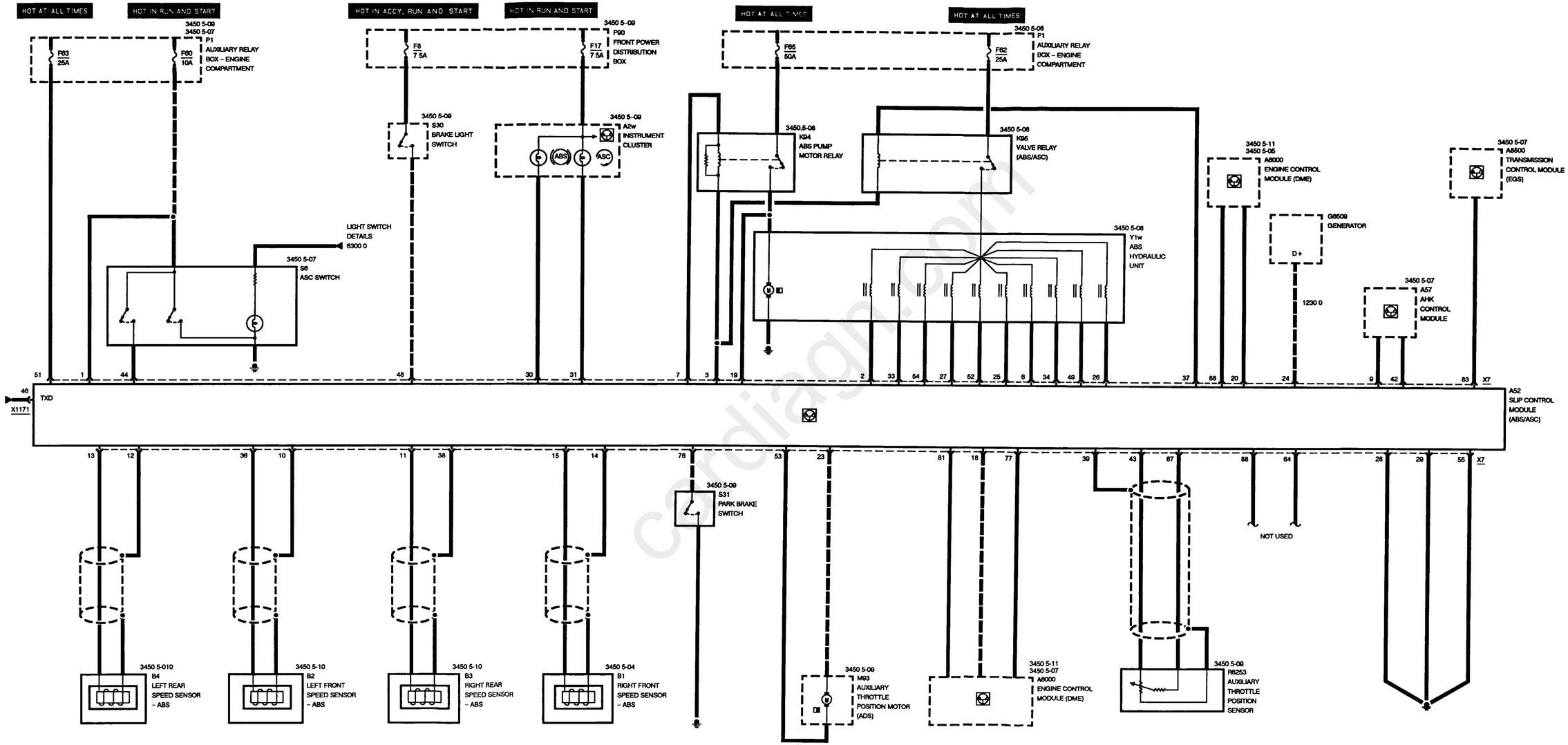


Pin Assignments

Pin	Type	Description/Function	Connection
31	E	Pump relay signal	ABS hydraulic unit
32	E	Park brake switch signal	Park brake switch
33	A	Recharging valve activation	Pressure sensor/plunger
34	E	Coding plug for manual transmission	Pin 15
35		Not used	
36	A	Rear right solenoid valve activation	ABS hydraulic unit
37	M	Ground	Ground point
38		Not used	
39	A	Ignition angle adjustment	Engine control modules (DME)
40	A	ASC multi-function lamp	Instrument cluster
41		Not used	
42	A	Right rear wheel speed sensor ground	Speed sensor
43	E	Right rear wheel speed signal	Speed sensor
44	A	Left rear wheel speed sensor ground	Speed sensor
45	E	Left rear wheel speed signal	Speed sensor
46	A	Right front wheel speed sensor ground	Speed sensor
47	E	Right front wheel speed signal	Speed sensor
48	A	Left front wheel speed sensor ground	Speed sensor
49		Not used	
50	E	Left front wheel speed signal	Speed sensor
51		Not used	
52	M	Ground	Ground point
53	E	Signal line AHK	Control module AHK (850CSi)
54	A	Signal, transmission intervention	Transmission control module (EGS)
55	E	RPM signal	Engine control module (DME)

E = Input, A = Output, M = Ground

12/94 — 3450.5b — 1994
12/94 — 3450.5b — 1994



cardiagn.com

Pin Assignments

X7

Pin	Type	Description/Function	Connection
1	E	Battery voltage	Fuse F60, Auxiliary Relay Box
2	A	Left front inlet valve	ABS hydraulic unit
3	A	ABS/ASC valve relay, ABS/ASC engine control relay	ABS/ASC valve relay, ABS/ASC engine control relay
4		Not used	
5		Not used	
6	A	Right rear inlet valve	ABS hydraulic unit
7	A	Voltage signal ABS/ASC engine control relay	Engine control relay (ABS/ASC+T)
8		Not used	
9	A	Left front wheel speed sensor signal	AHK control module
10	A	Left front speed sensor ground	Left front speed sensor
11	E	Right rear speed sensor voltage signal	Right rear speed sensor (ABS)
12	A	Left rear speed sensor ground	Left rear speed sensor
13	A	Left rear speed voltage signal	Left rear speed sensor (ABS)
14	A	Right front speed sensor ground	Right front speed sensor
15	E	Right front speed sensor voltage signal	Right front speed sensor (ABS)
16		Not used	
17		Not used	
18	E	EML-signal	Engine control module (DME)
19	E	ABS/ASC engine control relay, voltage signal	ABS/ASC engine control relay
20	E	Engine speed signal	Engine control module
21		Not used	
22		Not used	
23	A	Auxiliary throttle control motor, voltage	ADS throttle control motor
24	E	Terminal 61 D+	Generator
25	A	Left rear outlet valve	ABS hydraulic unit
26	A	Pressure intake valve	ABS hydraulic unit
27	A	Right front outlet valve	ABS hydraulic unit
28	M	Ground	Ground point

E = Input, A = Output, M = Ground

carmanuals.com



Pin Assignments

Pin	Type	Description/Function	Connection
29	M	Ground	Ground point
30	A	Voltage signal, ABS warning lamp	Instument cluster
31	A	ASC multi-function lamp	Instrument cluster
32		Not used	
33	A	Left front outlet valve	ABS hydraulic unit
34	A	Right rear outlet valve	ABS hydraulic unit
35		Not used	
36	E	Left front speed sensor, voltage signal	Left front speed sensor (ABS)
37	A	Voltage signal, ABS/ASC valve relay	ABS valve relay
38	A	Right rear speed sensor ground	Right rear speed sensor
39	A	Throttle control potentiometer ground	Throttle control potentiometer
40	A	Left rear wheel speed signal	Transmission control unit (AGS)
41		Not used	
42	A	Right front wheel speed signal	AHK control module
43	A	Throttle control potentiometer, voltage	Throttle flap potentiometer (ASC)
44	E	ASC passive button voltage signal	ASC switch
45		Not used	
46	E/A	TxD diagnostic data line	Data link connector
47		Not used	
48	E	Brake light signal	Brake light switch
49	A	Plunger valve	ABS hydraulic unit
50		Not used	
51	E	Voltage supply	Fuse F63, Auxiliary Relay Box
52	A	Left rear outlet valve	ABS hydraulic unit
53	E	Auxiliary throttle control motor, ground	ADS throttle control motor
54	A	Left front inlet valve	ABS hydraulic unit
55	M	Ground	Ground point
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	

E = Input, A = Output, M = Ground

carDiagn.com

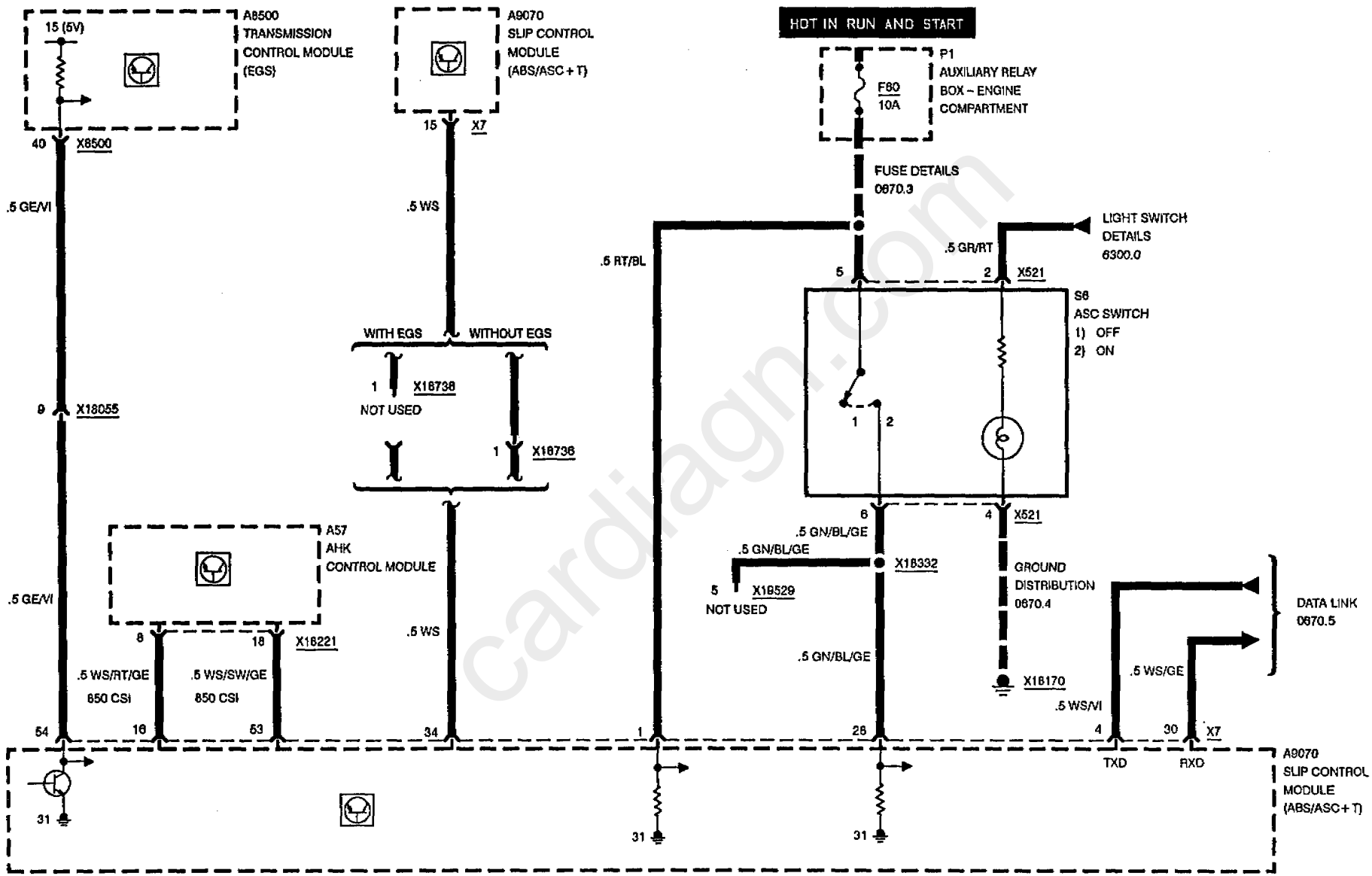
Pin Assignments

Pin	Type	Description/Function	Connection
61		Not used	
62		Not used	
63		Not used	
64		Not Used	
65		Not used	
66		Not used	
67	E	Throttle control potentiometer, signal	Throttle flap potentiometer (ASC)
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	E	Park brake signal	Park brake switch
77	A	Ignition timing set	Engine contol module (DME)
78		Not used	
79		Not used	
80		Not used	
81	E	Signal line	Engine control module (DME)
82		Not used	
83	A	Transmission intervention	Transmission control unit (EGS)
84		Not used	
85		Not used	
86		Not used	
87		Not used	
88		Not used	

E = Input, A = Output, M = Ground

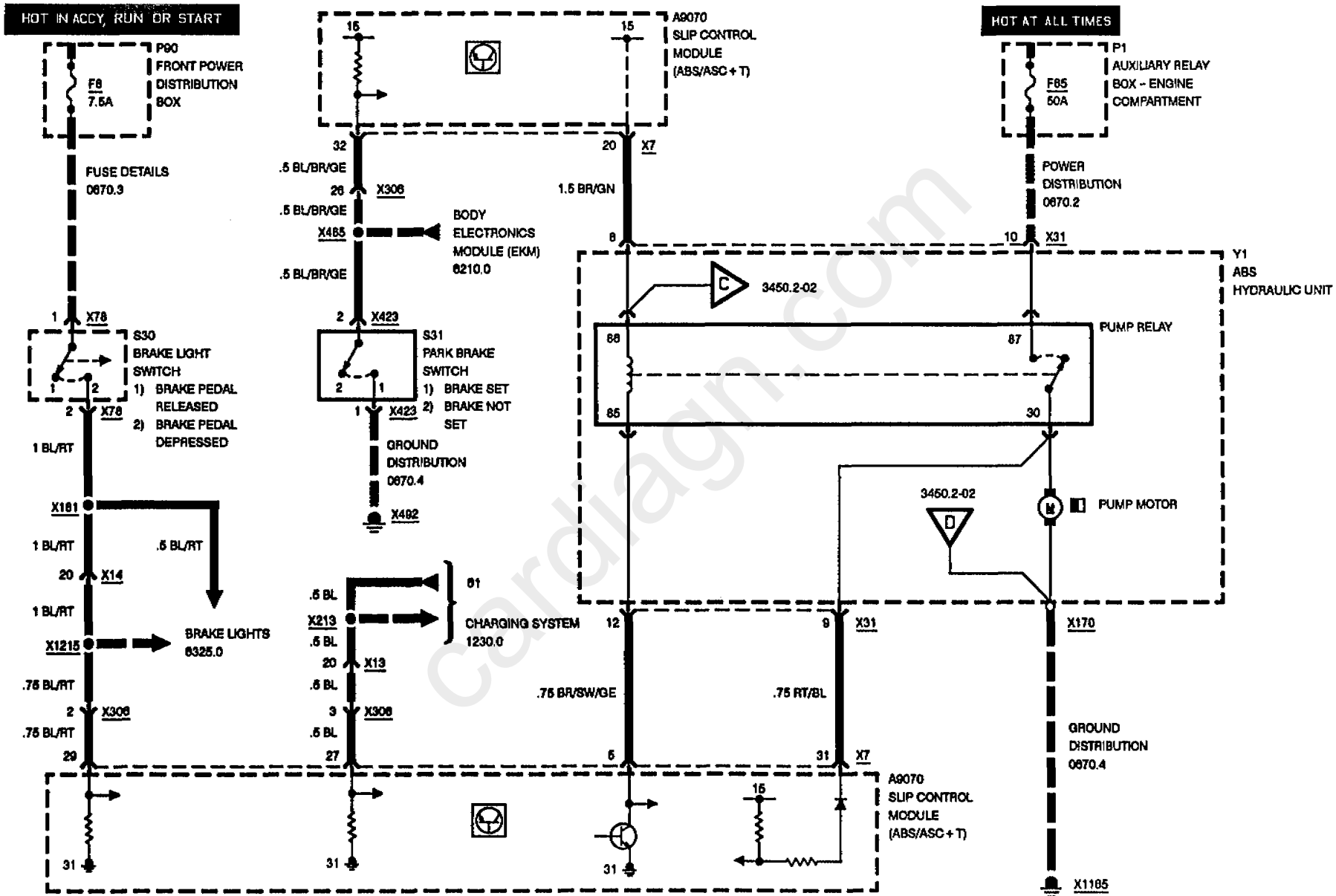
cardiagn.com

SLIP CONTROL 5 (ASC 5)



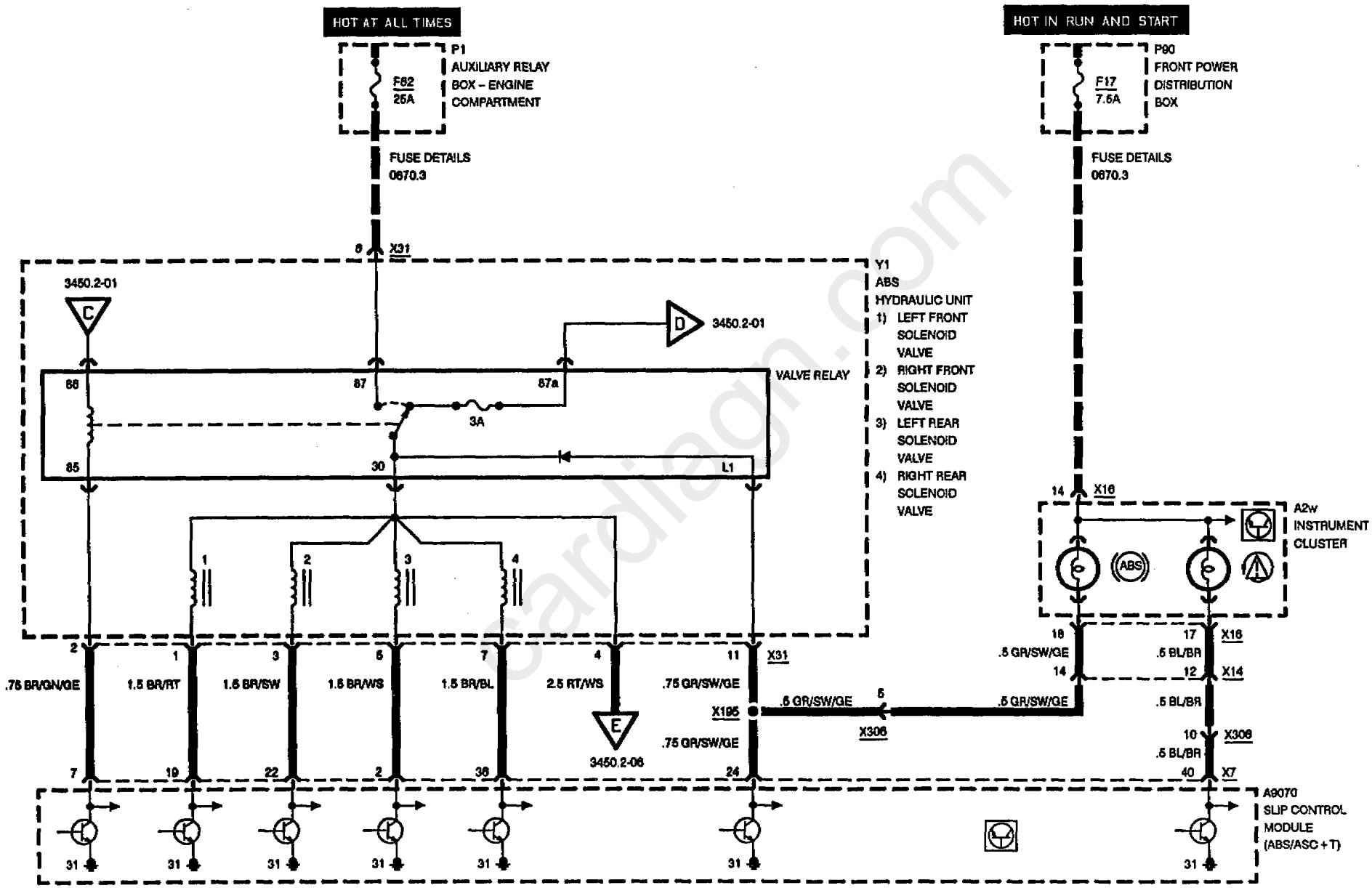
cardiagn.com

SLIP CONTROL 5 (ASC 5)



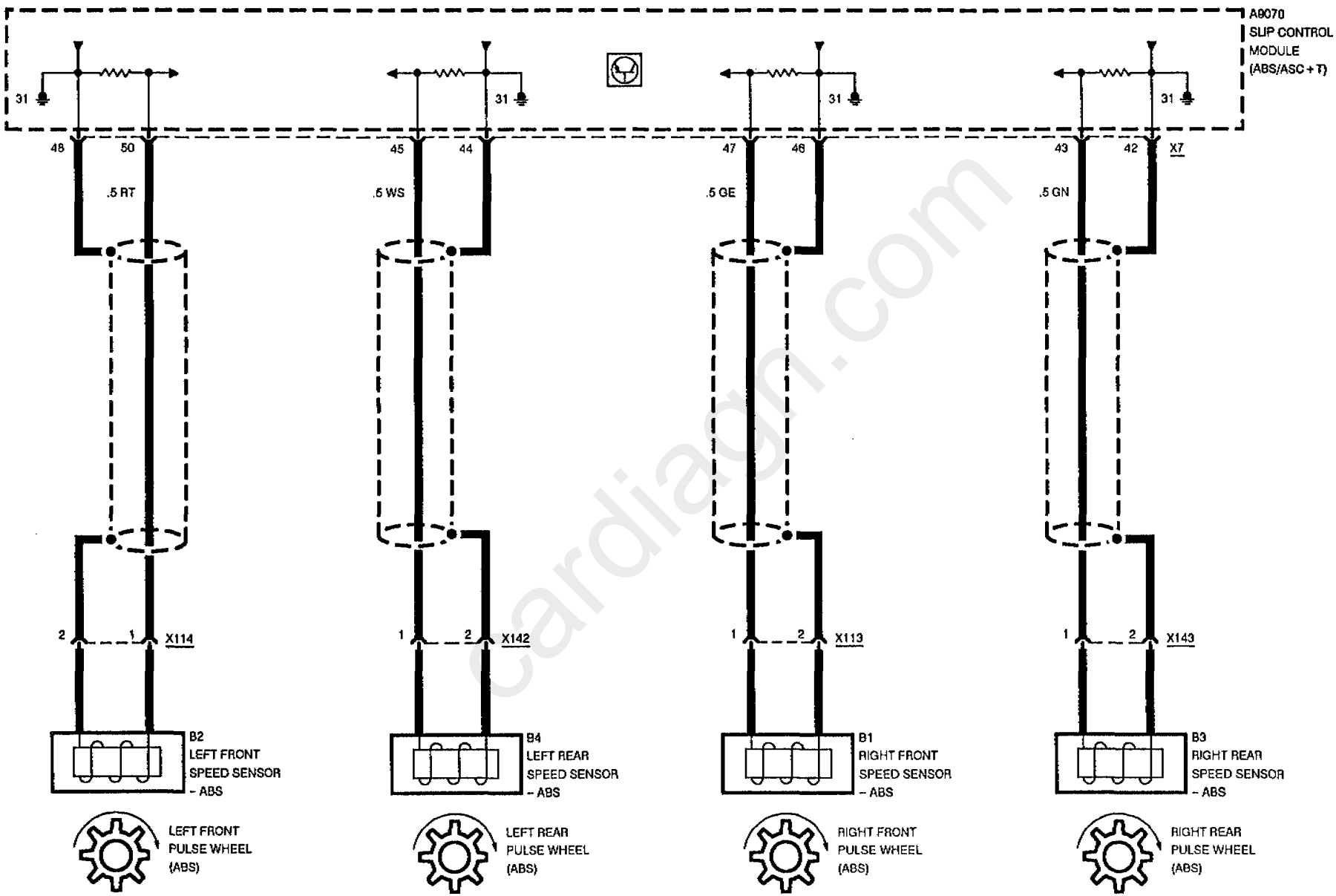
cardiagn.com

SLIP CONTROL 5 (ASC 5)



cardiagn.com

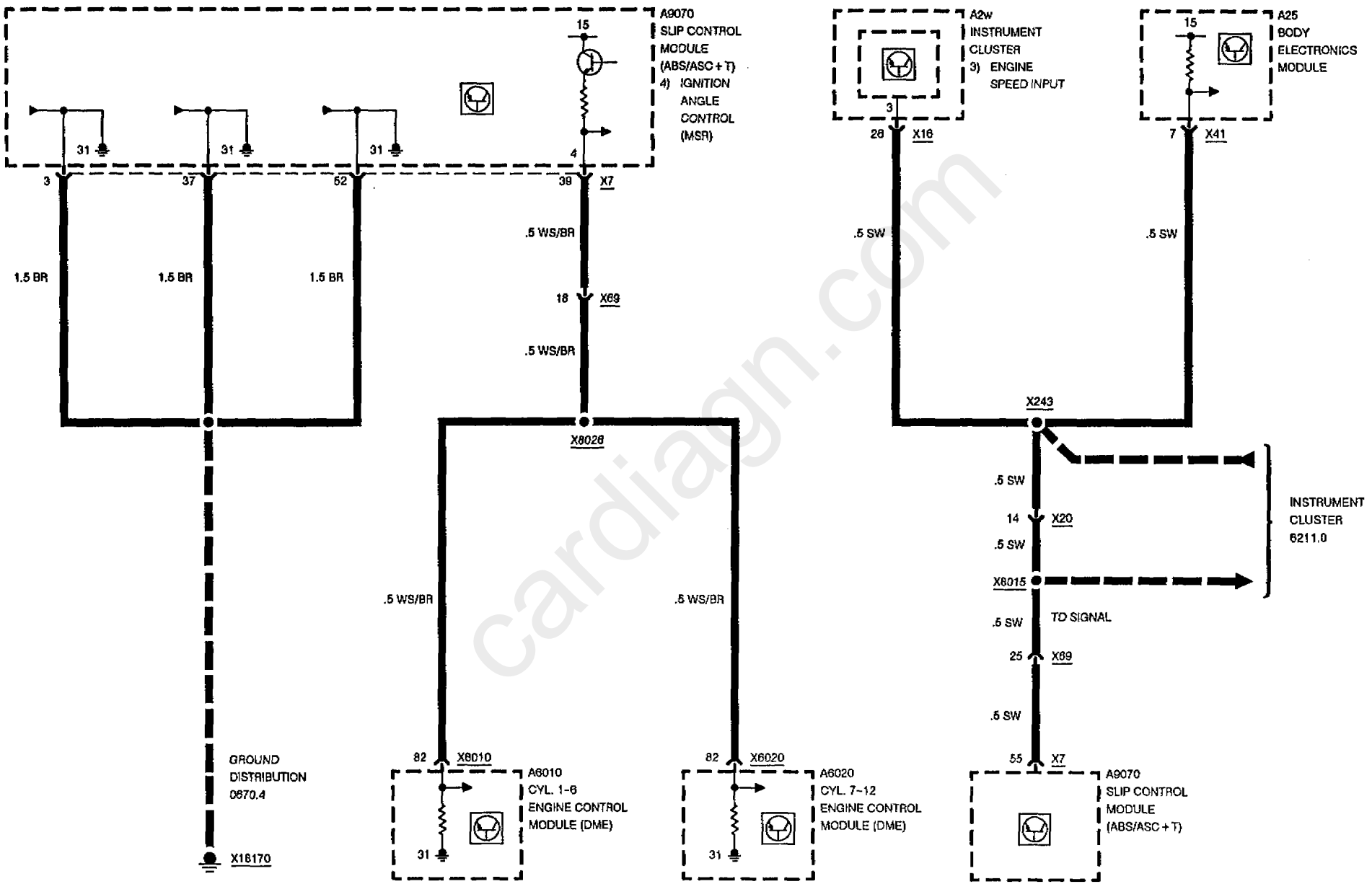
SLIP CONTROL 5 (ASC 5)



cardiagn.com

SLIP CONTROL 5 (ASC 5)

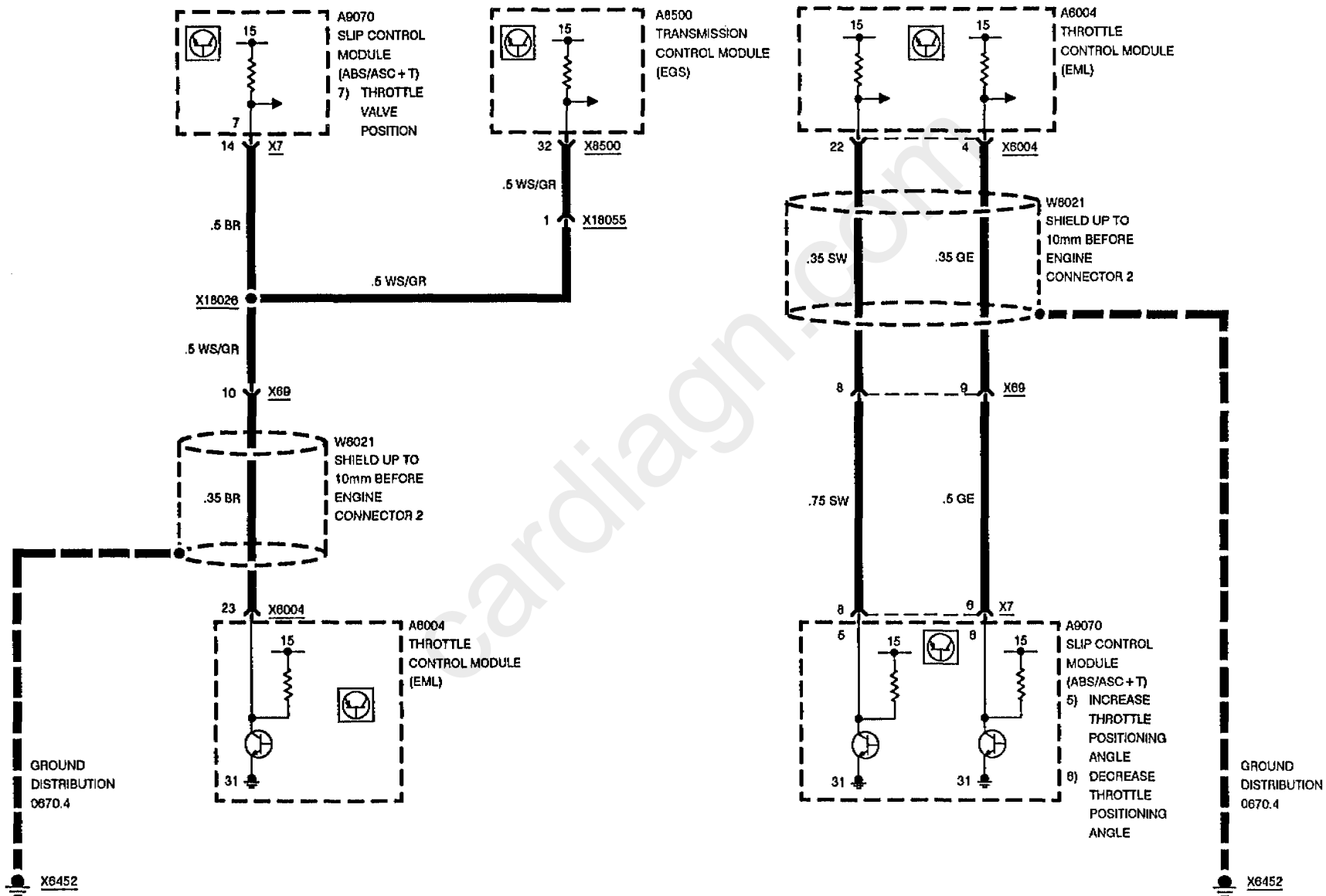
ENGINE CONTROL (DME) INTERFACE



cardiagn.com

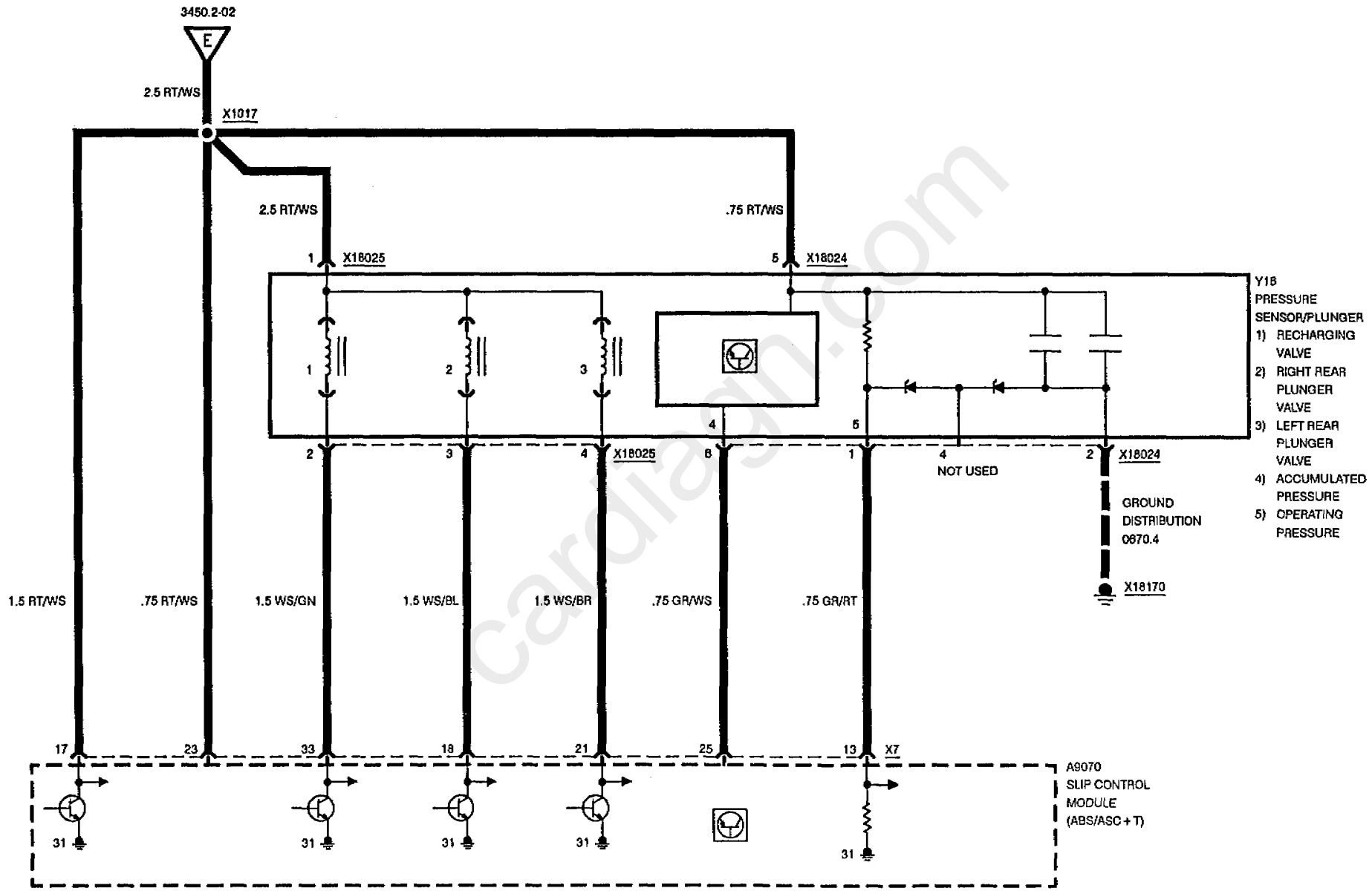
SLIP CONTROL 5 (ASC 5)

EML INTERFACE



cardiagn.com

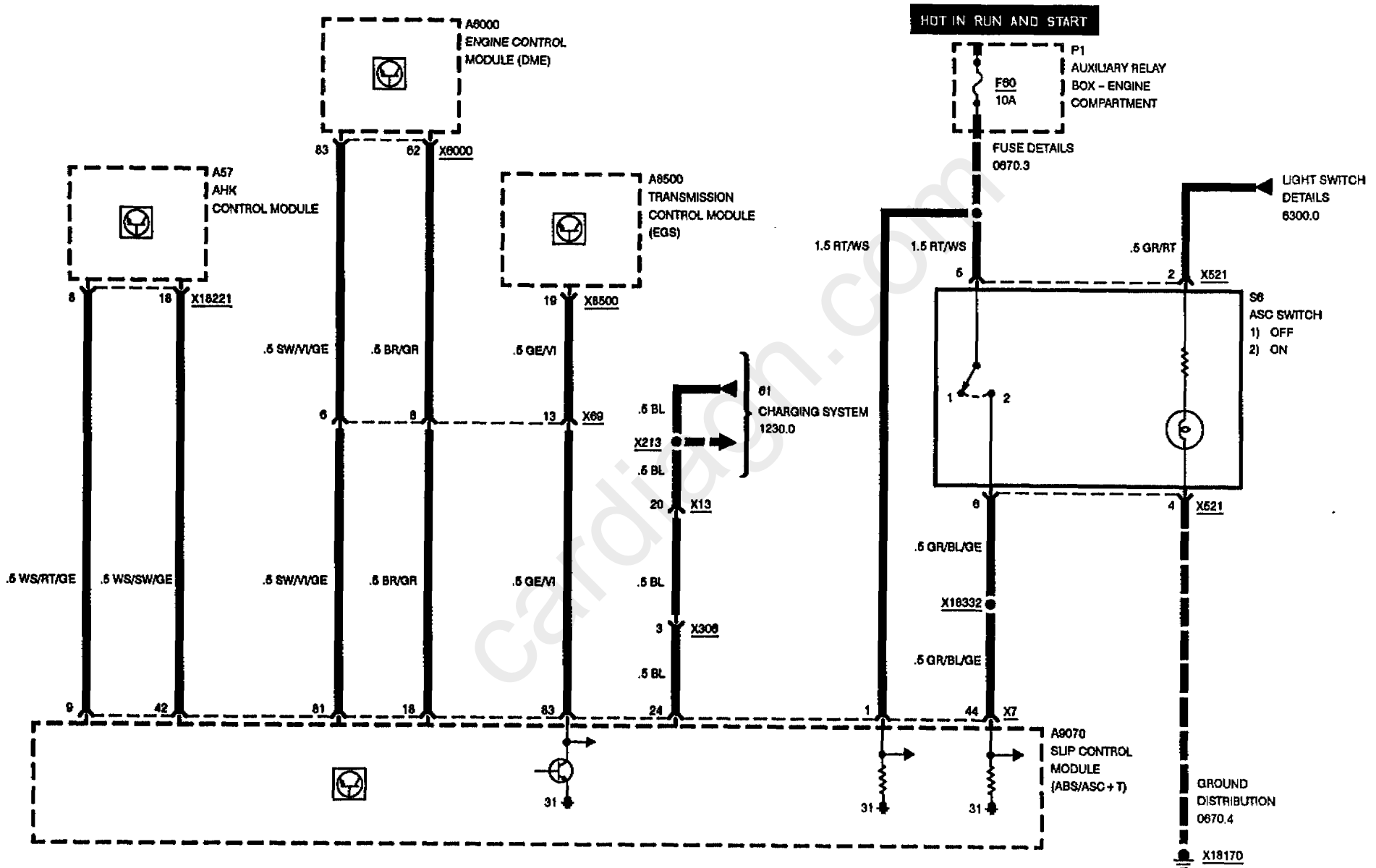
SLIP CONTROL 5 (ASC 5)



cardiagn.com

SLIP CONTROL 5 (ASC 5)

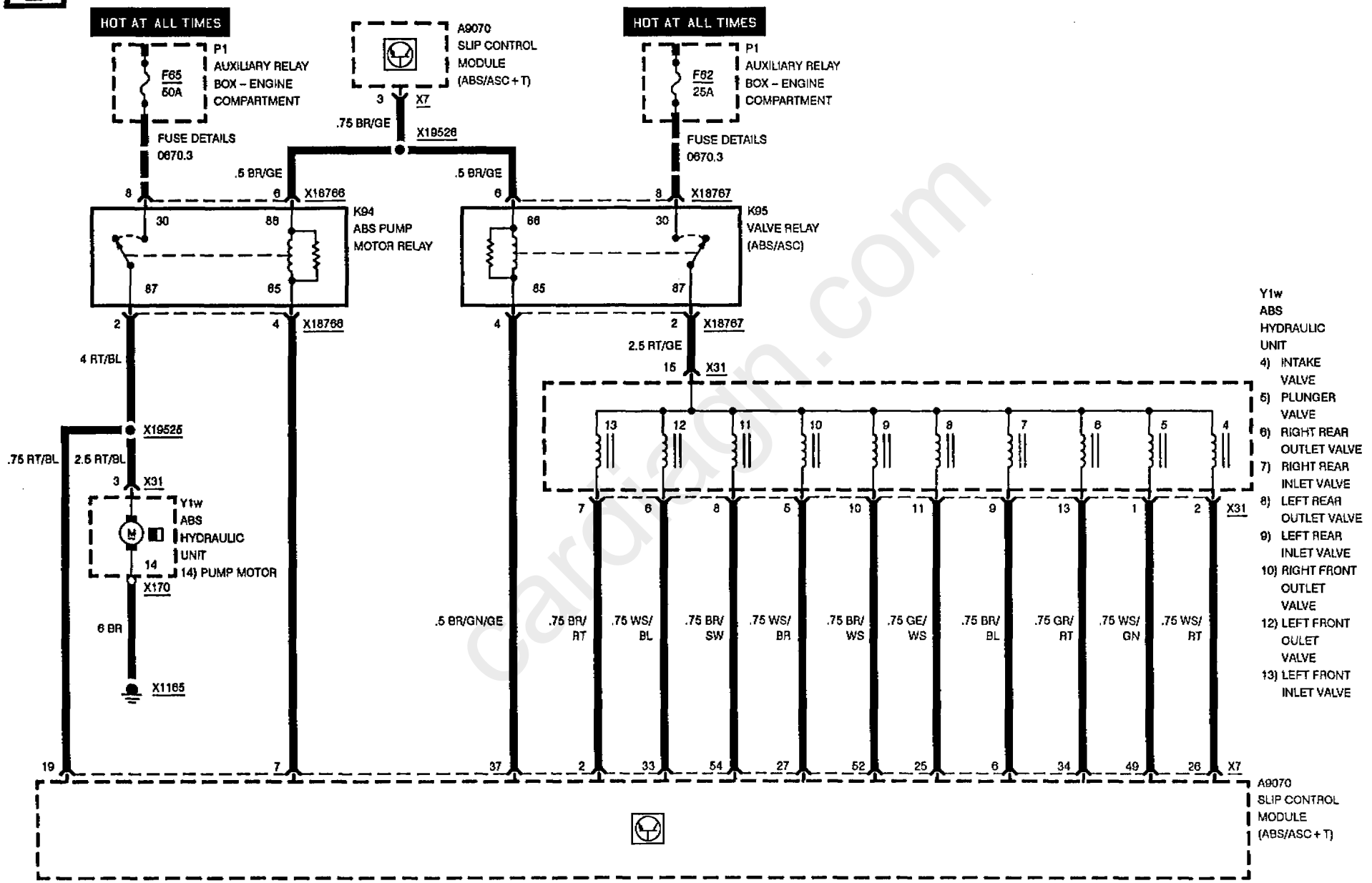
840Ci



cardiagn.com

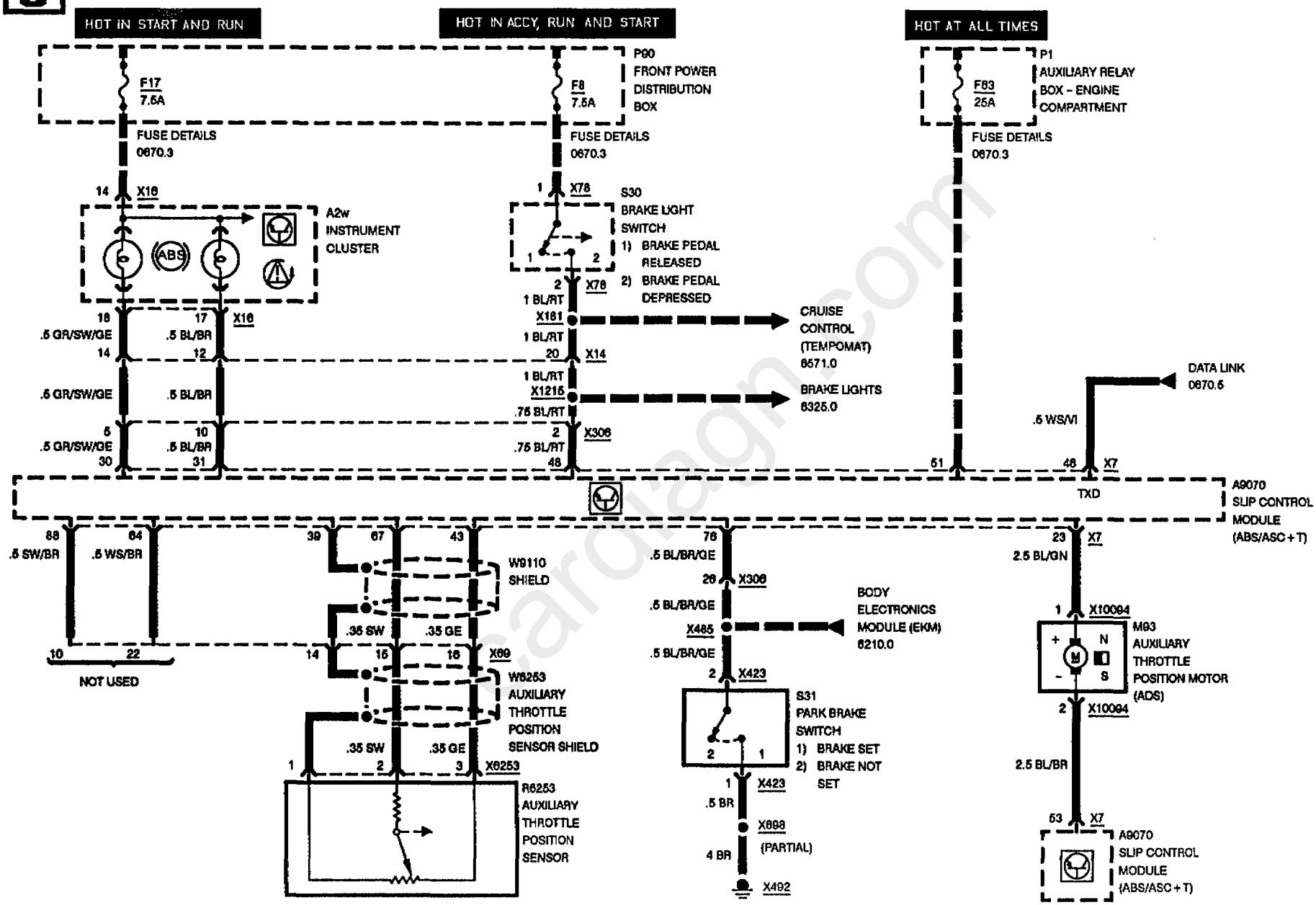
SLIP CONTROL 5 (ASC 5)

840Ci



cardiagn.com

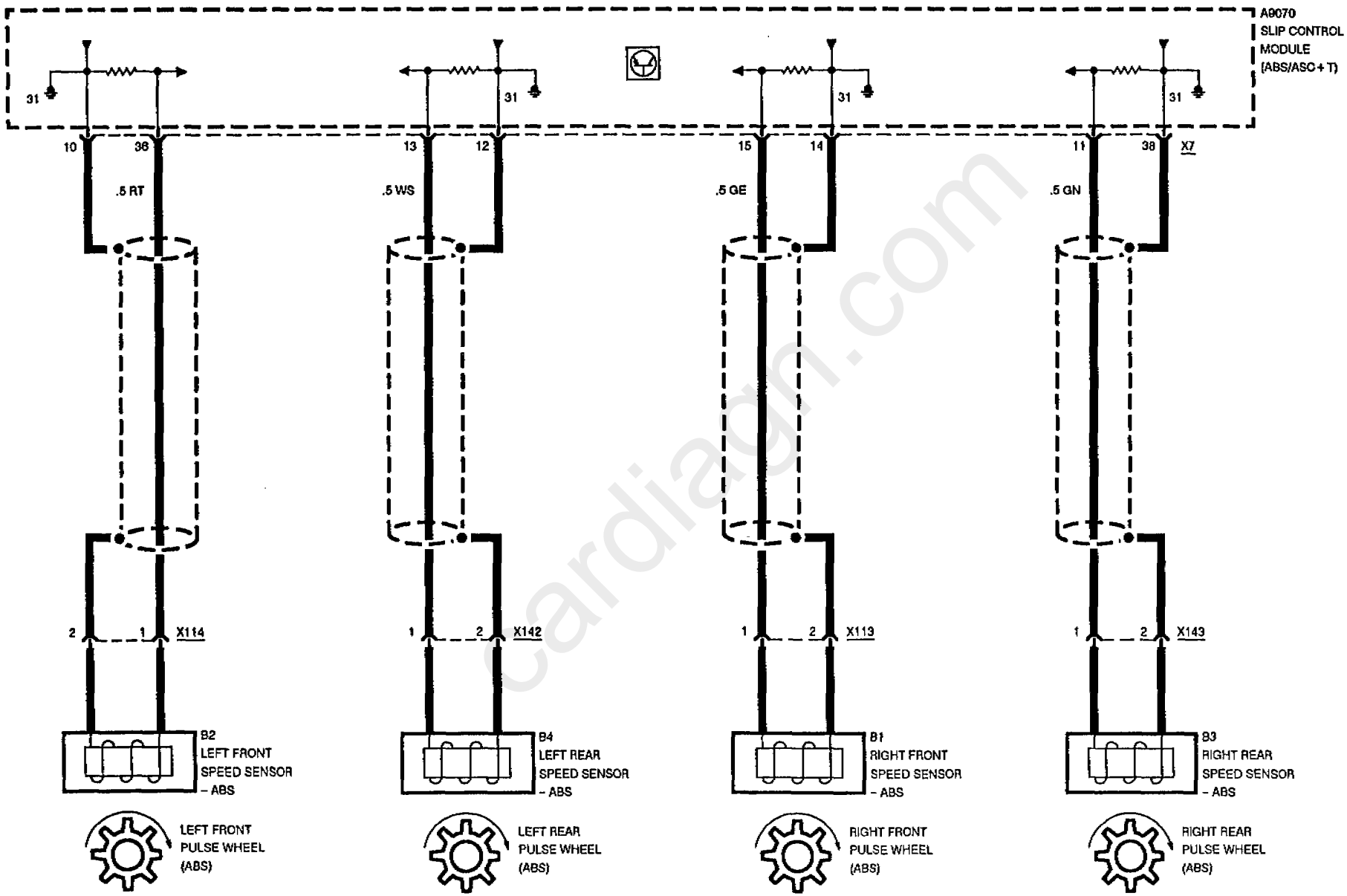
SLIP CONTROL 5 (ASC 5)



cardiagn.com

SLIP CONTROL 5 (ASC 5)

840Ci

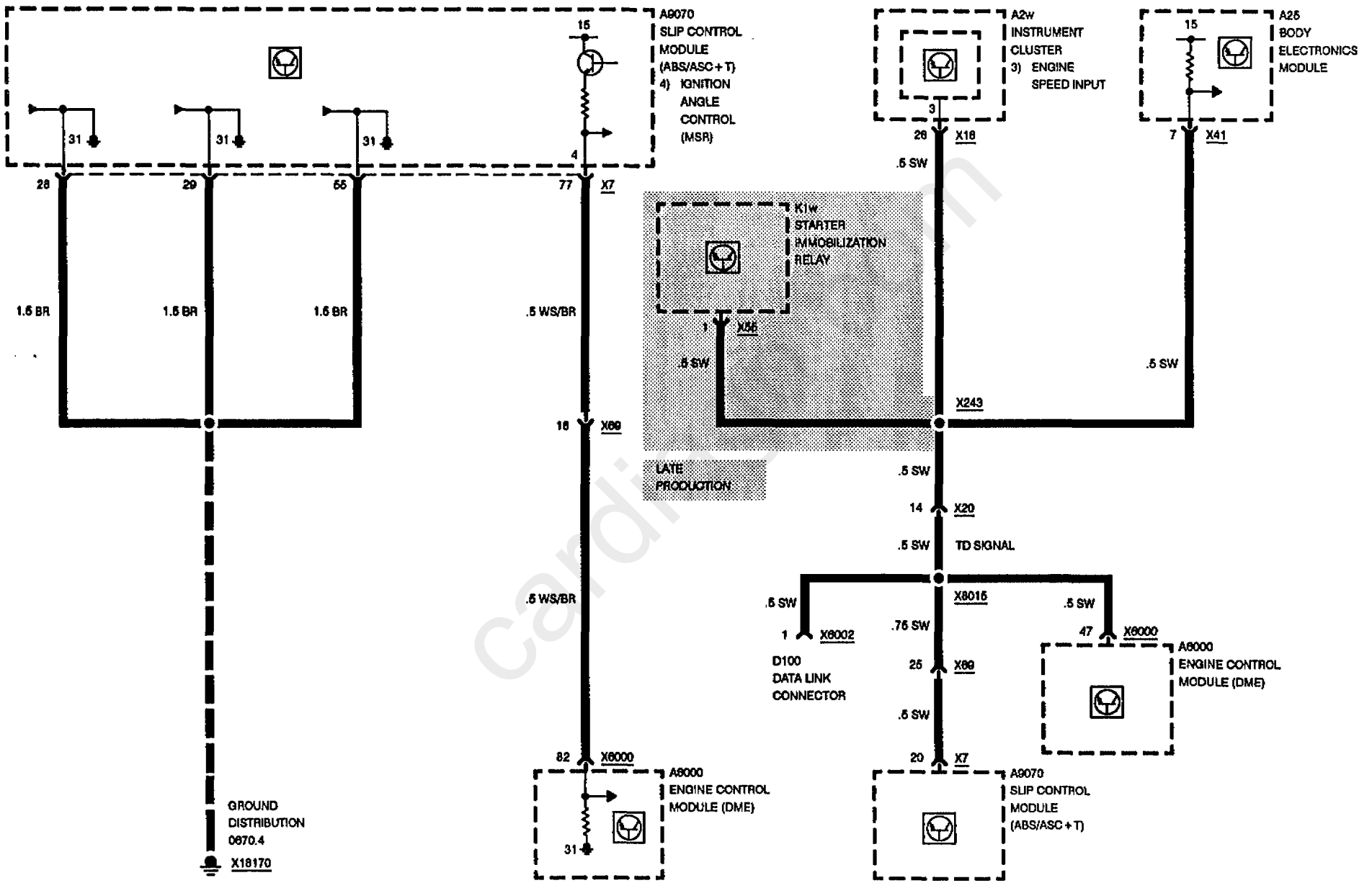


cardiagn.com

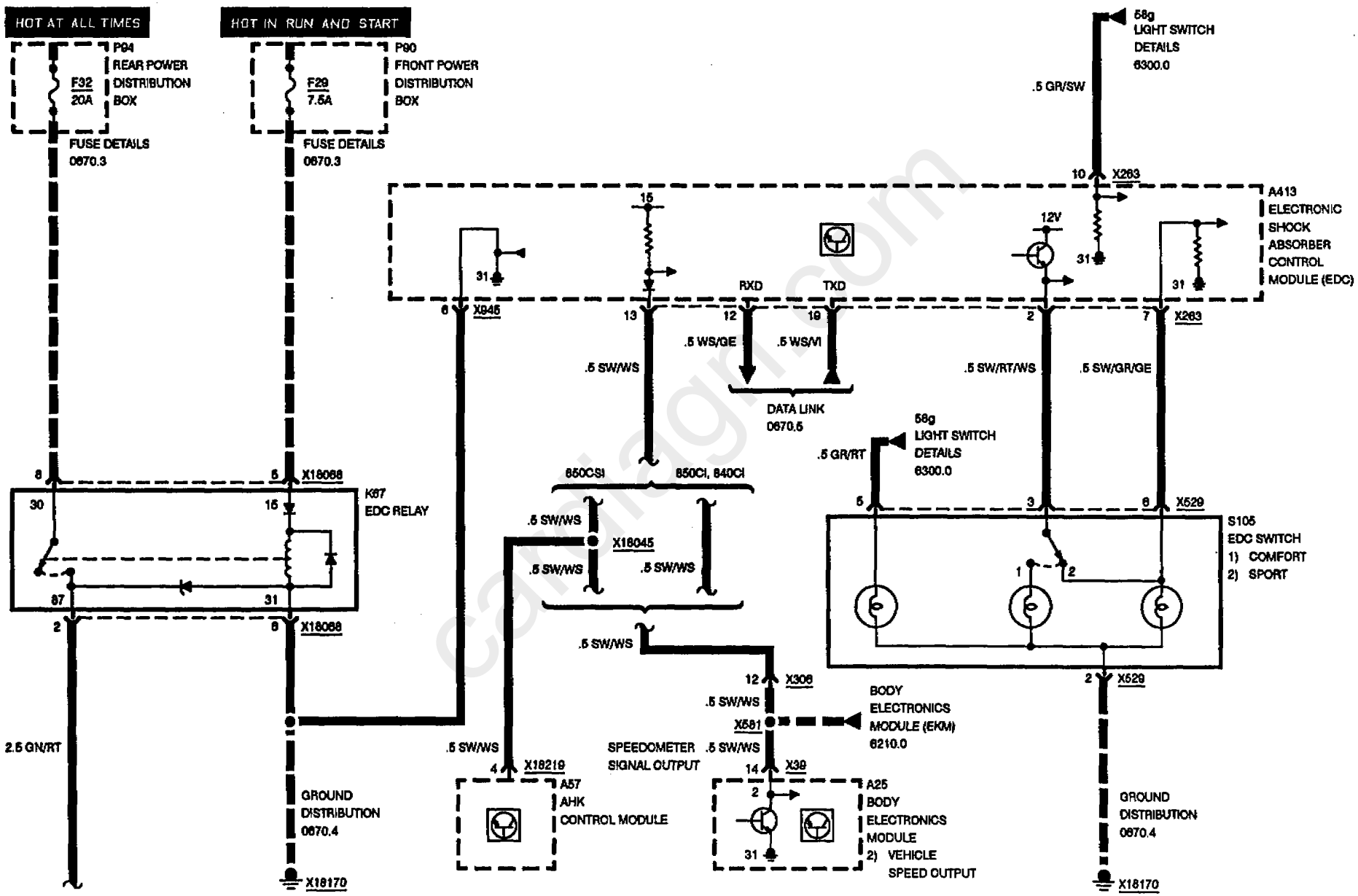
SLIP CONTROL 5 (ASC 5)

840Ci

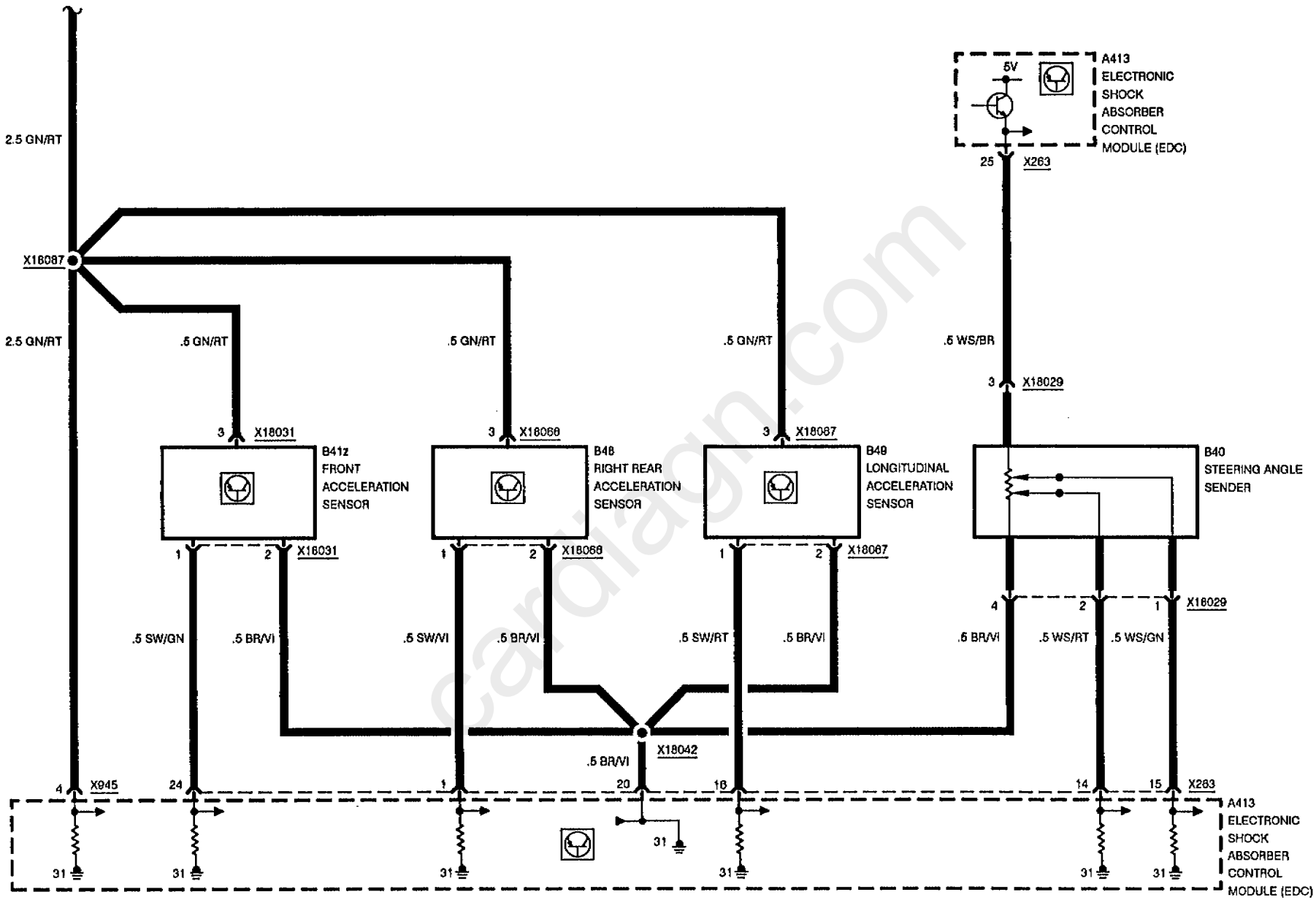
ENGINE CONTROL MODULE (DME) INTERFACE AND TD SIGNAL



ELECTRONIC SHOCK ABSORBER CONTROL (EDC III+)

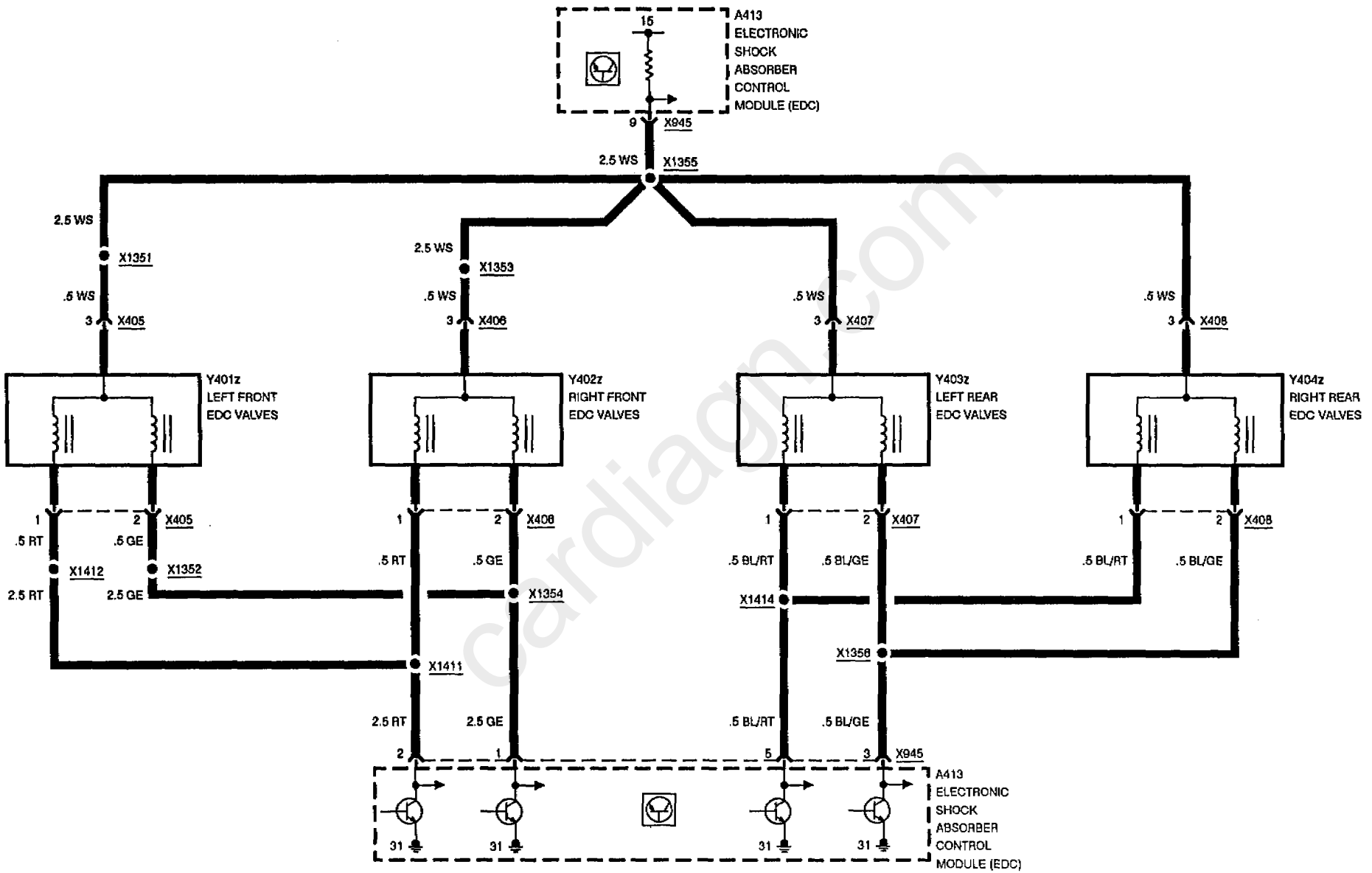


carlagram.com



cardiagn.com

ELECTRONIC SHOCK ABSORBER CONTROL (EDC III+)

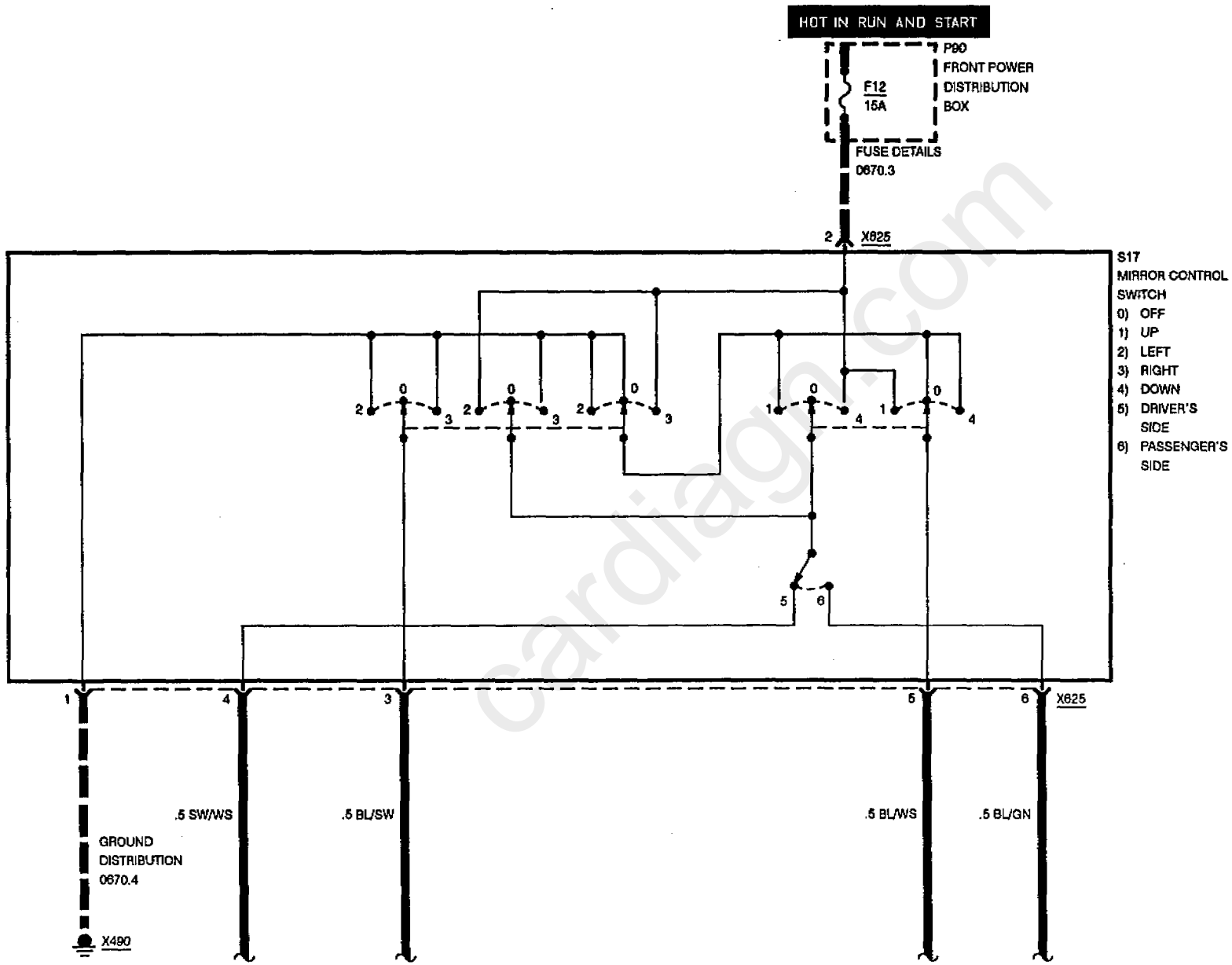


cardiagn.com

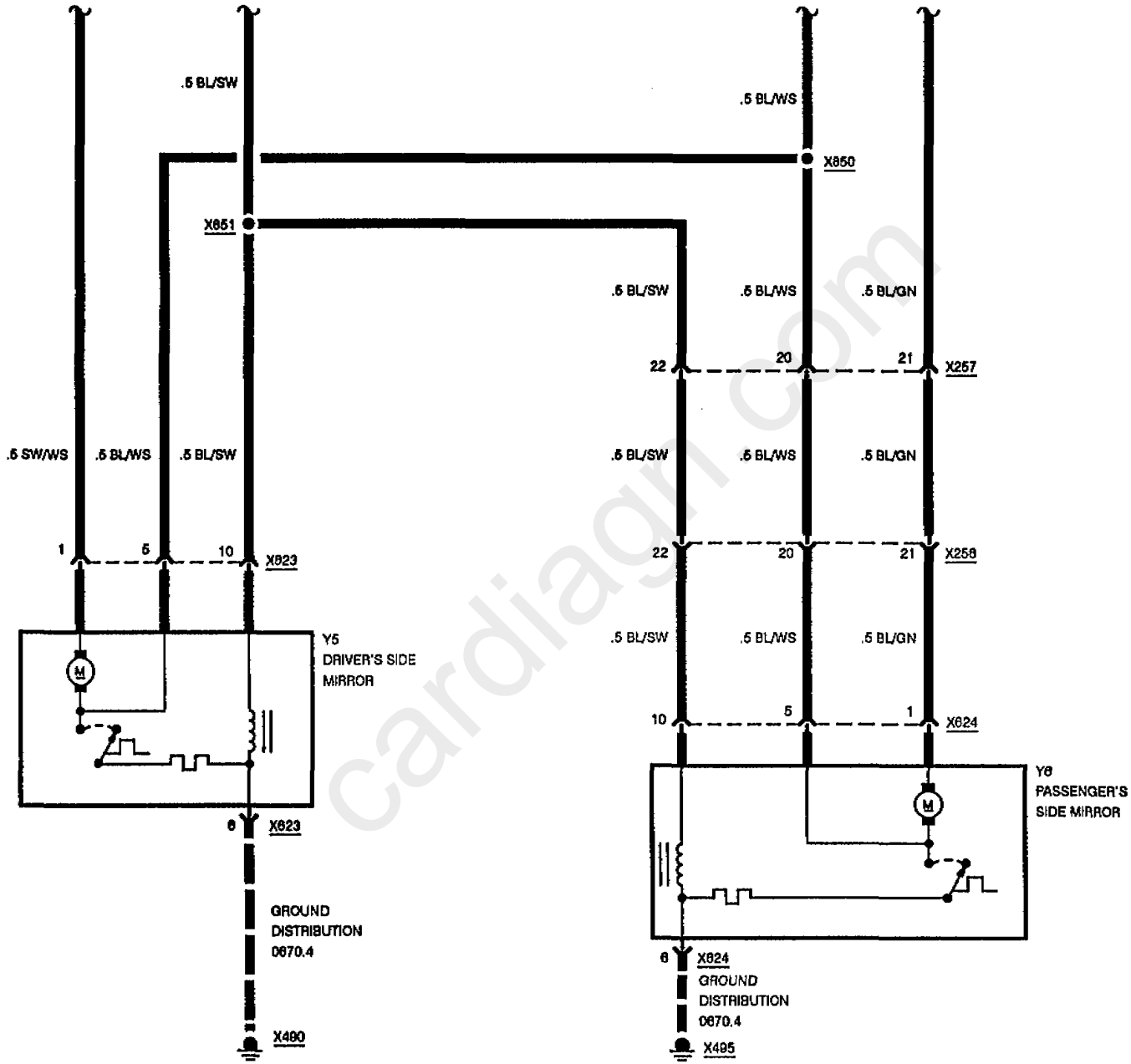
cardiagn.com

POWER MIRRORS

OUTSIDE MIRRORS



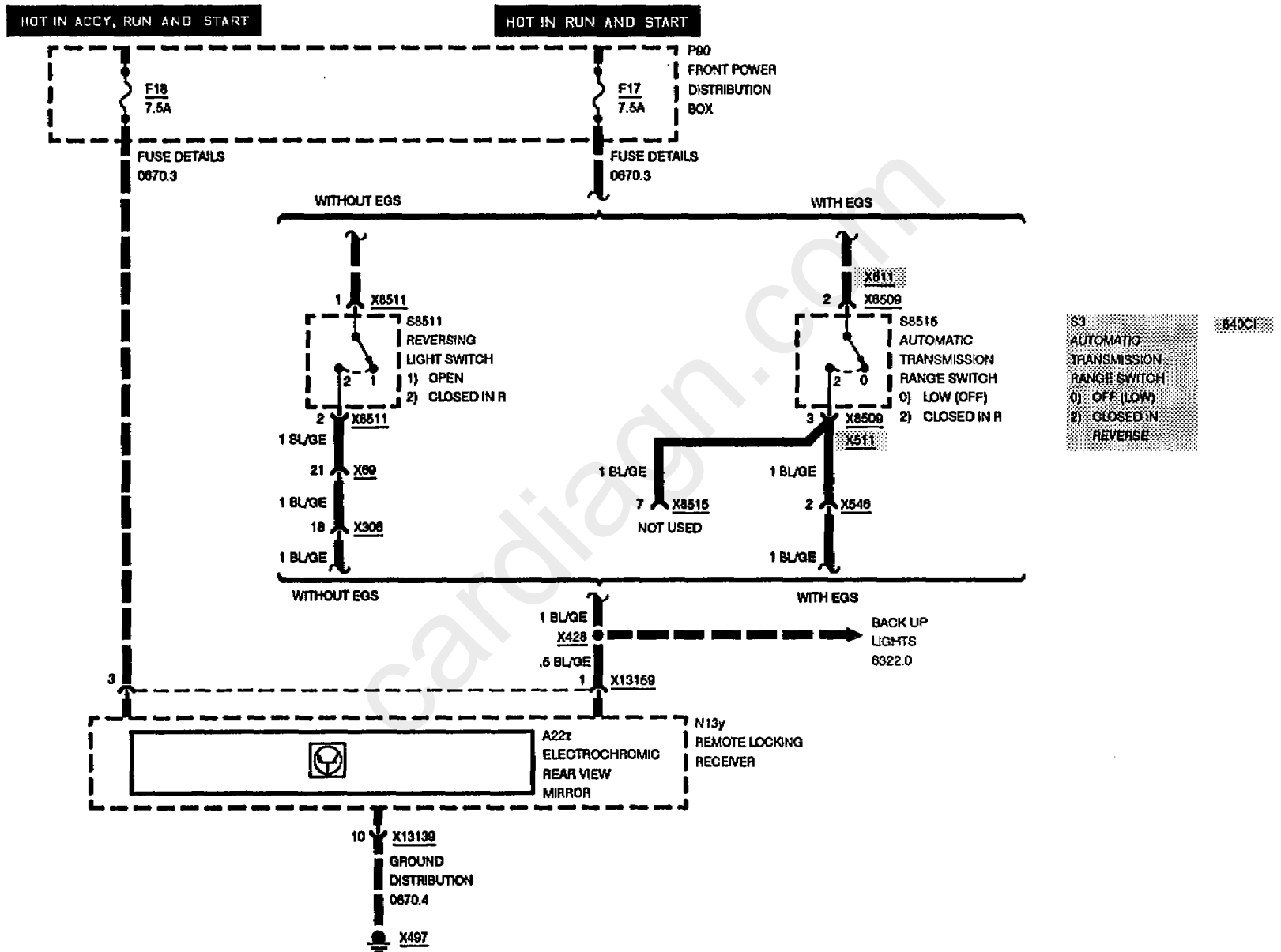
cardiagn.com



cardiagn.com

POWER MIRRORS

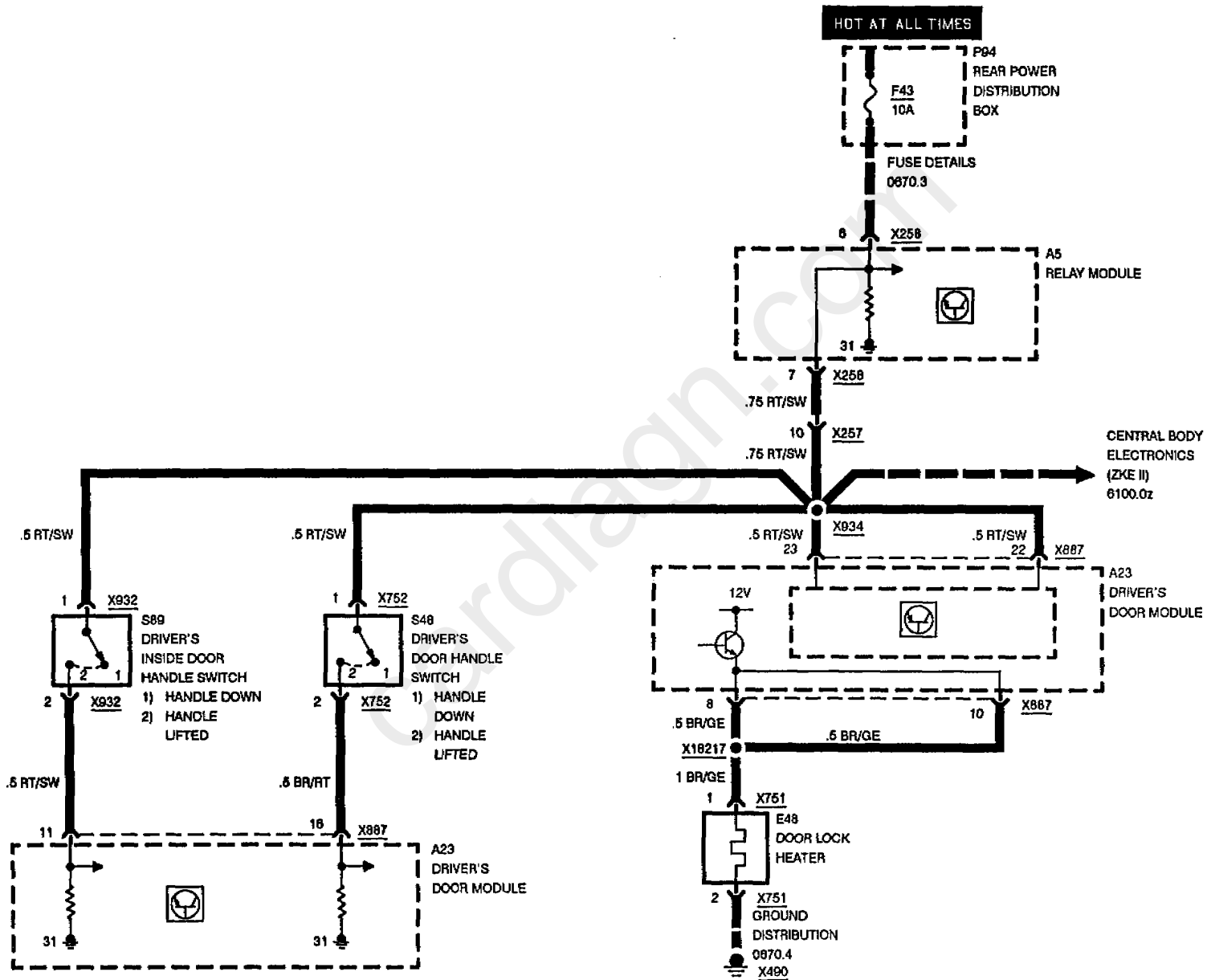
INSIDE MIRROR



cardiagn.com

cardiagn.com

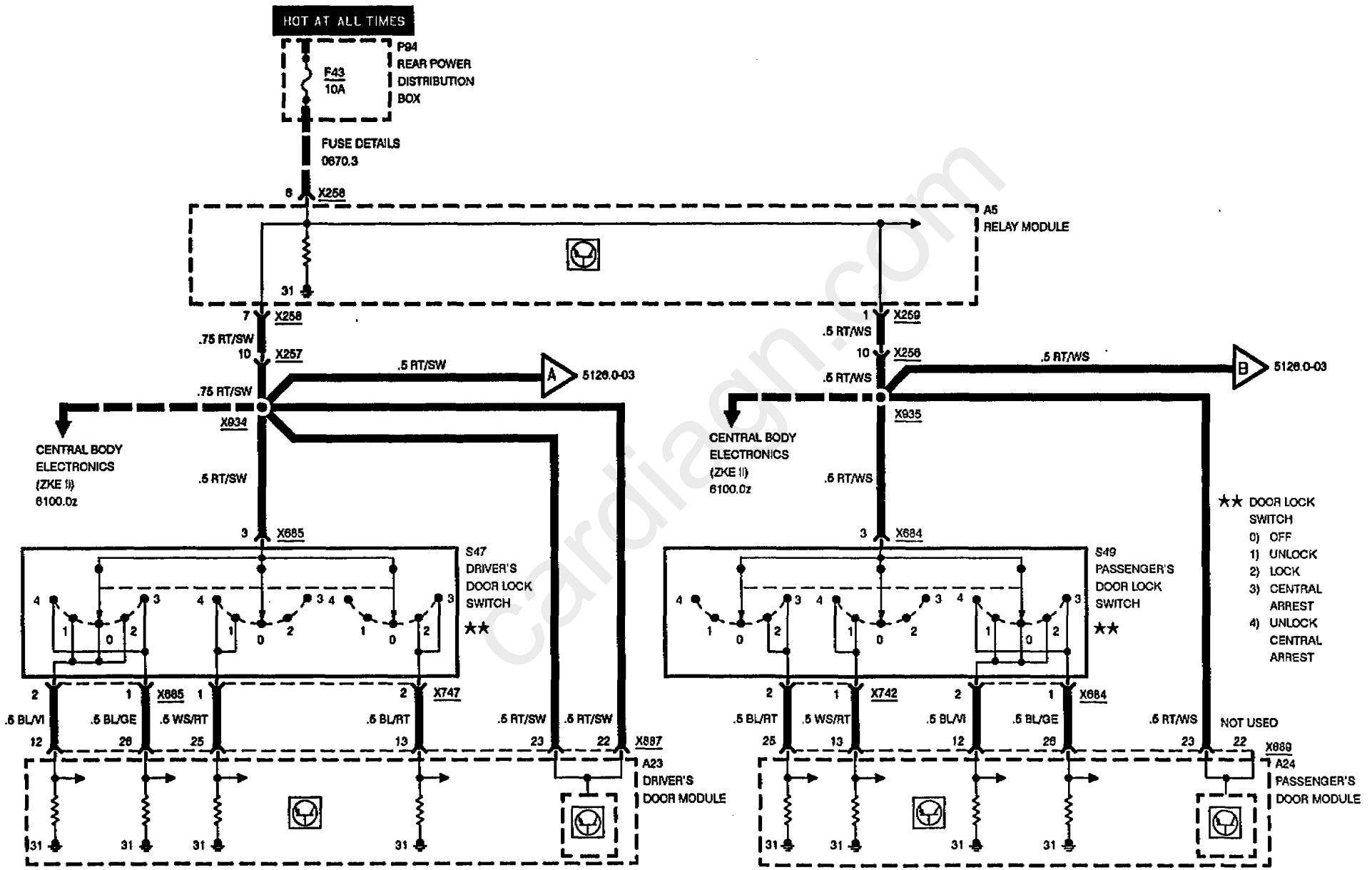
ZKE DOOR LOCK HEATING (TSH)



Cardiagn.com

cardiagn.com

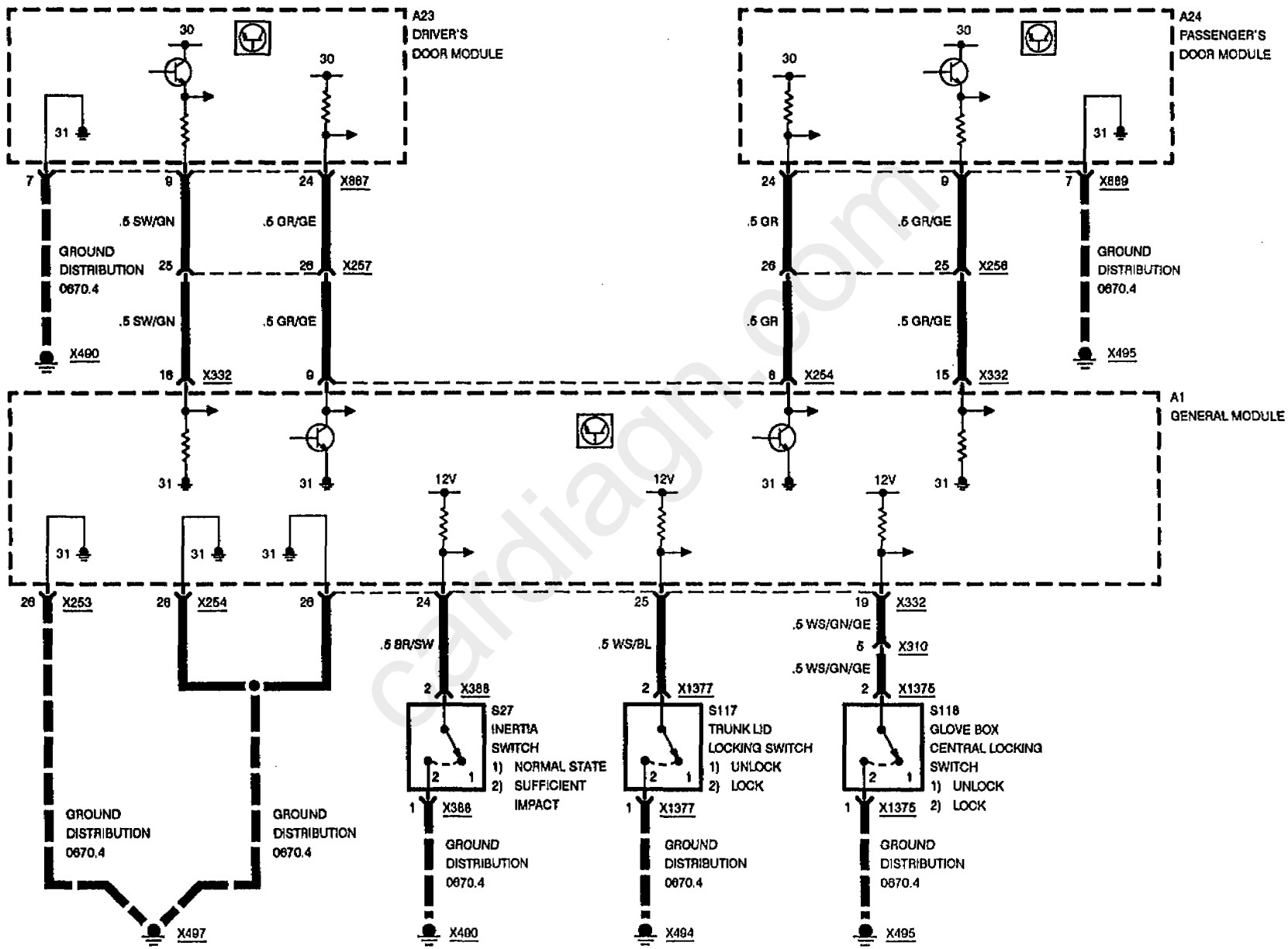
ZKE CENTRAL LOCKING (ZV)
(INPUTS)



cardiagn.com

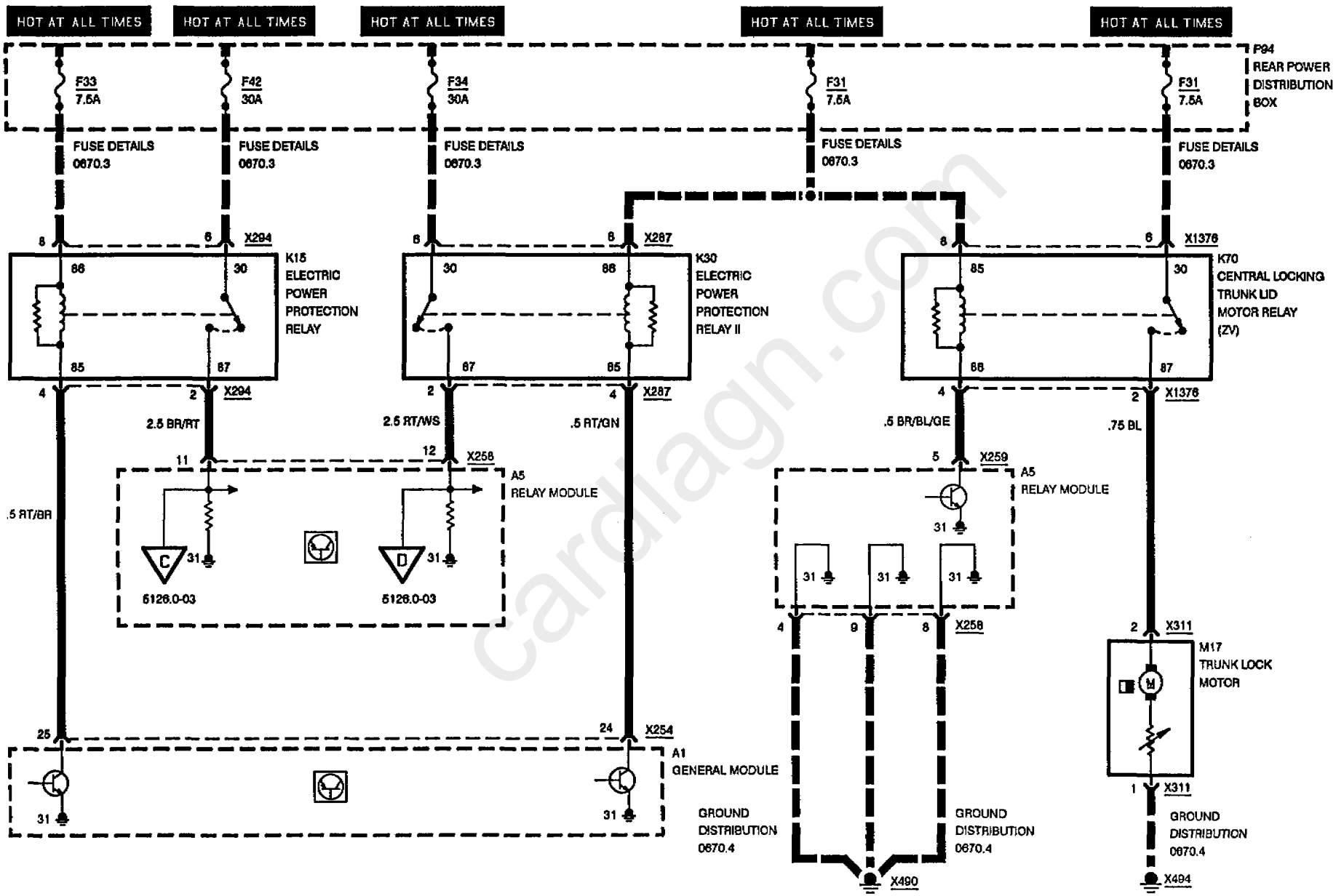
ZKE CENTRAL LOCKING (ZV)

(INPUTS)



cardiagn.com

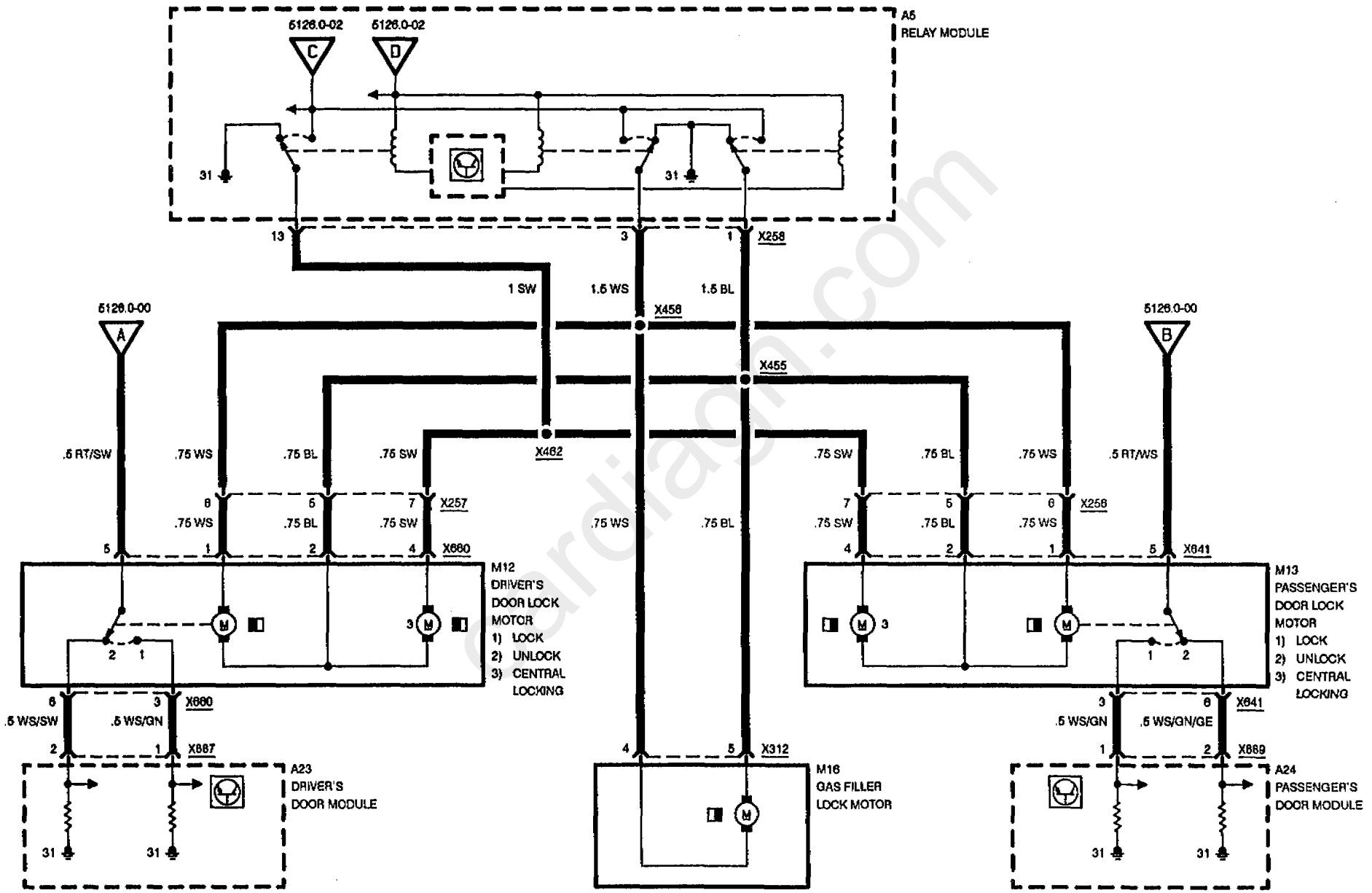
ZKE CENTRAL LOCKING (ZV)



cardiagn.com

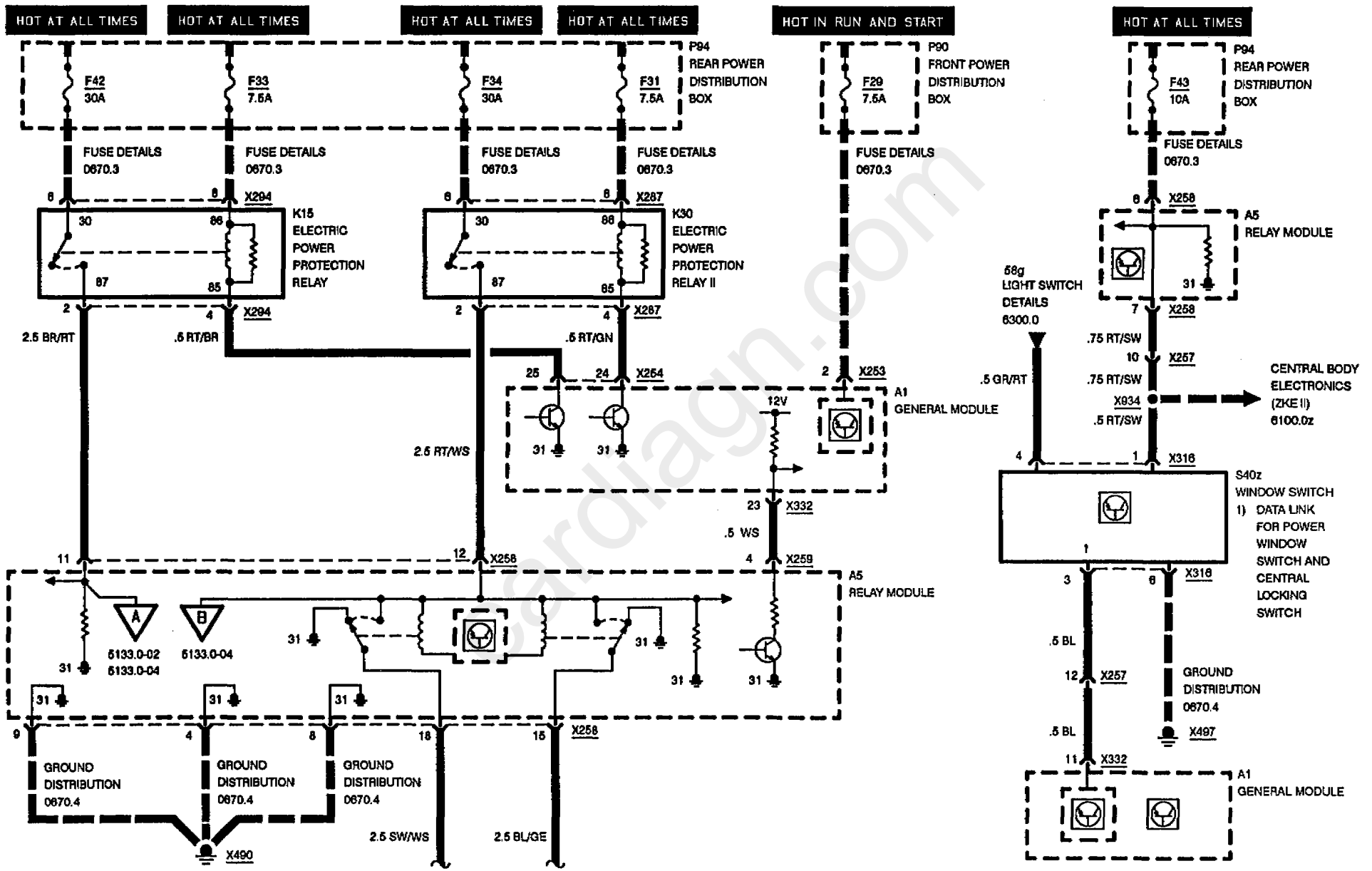
ZKE CENTRAL LOCKING (ZV)

(OUTPUTS)

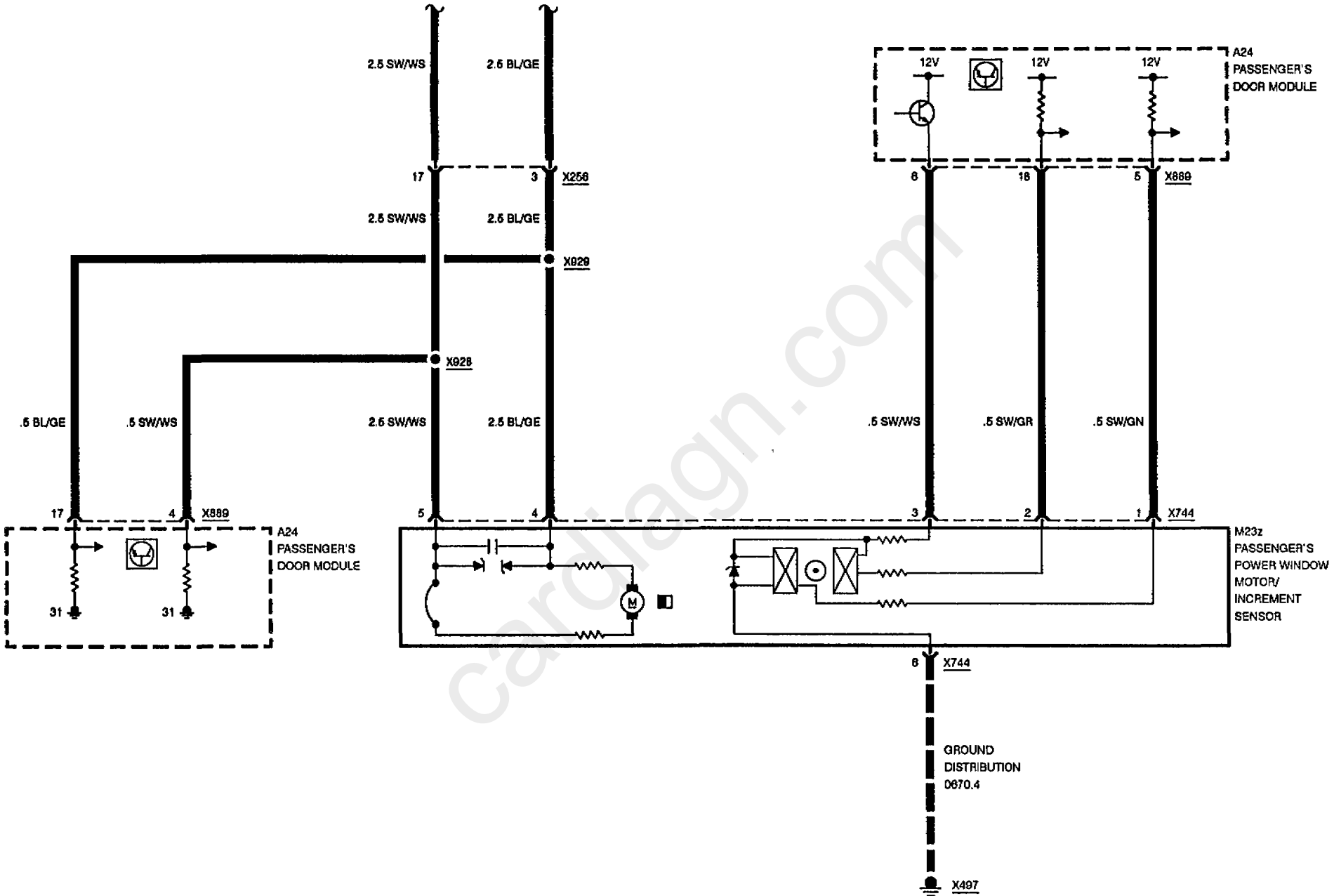


cardiagn.com

ZKE POWER WINDOWS (FH)

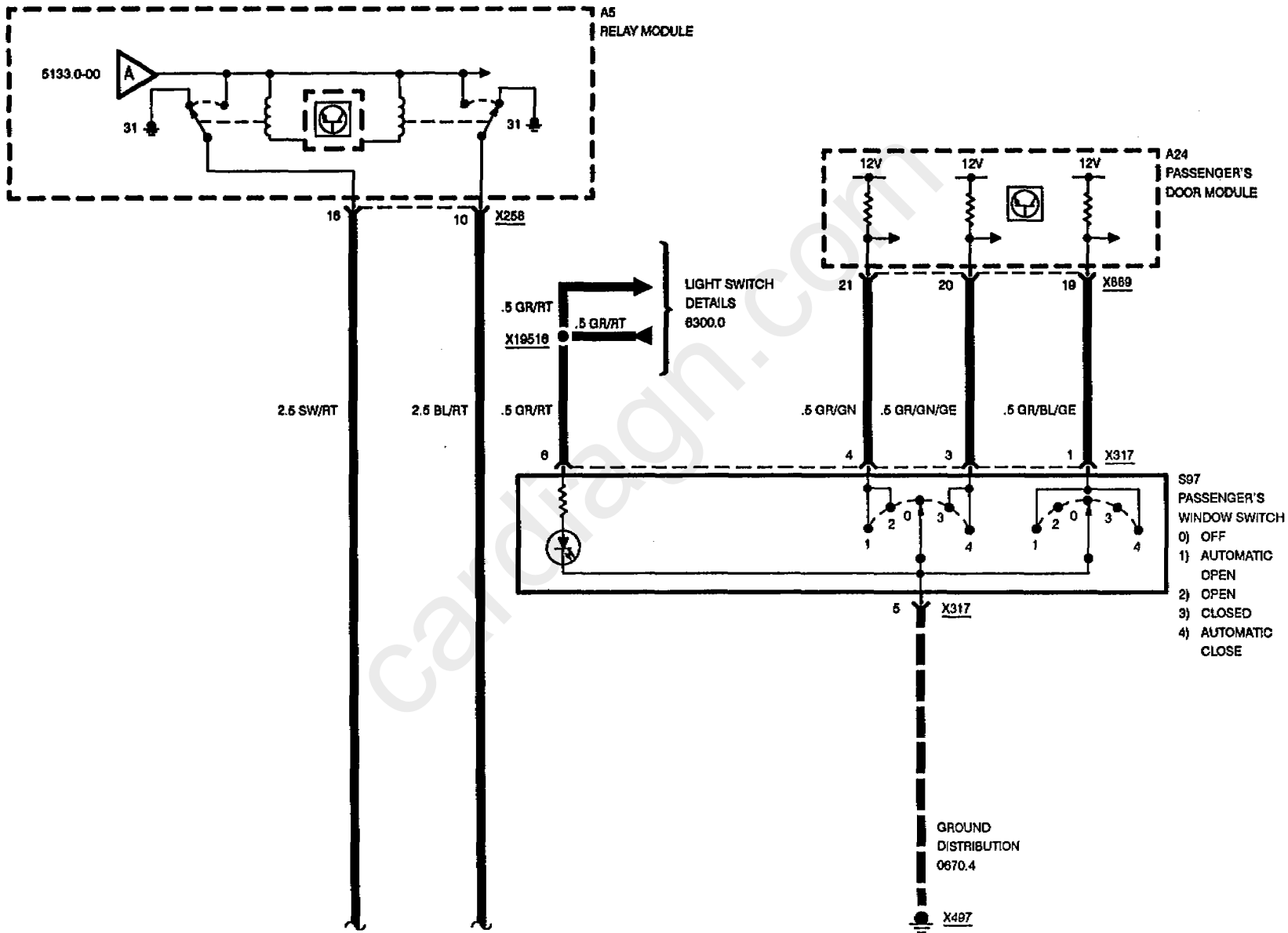


cardiagn.com

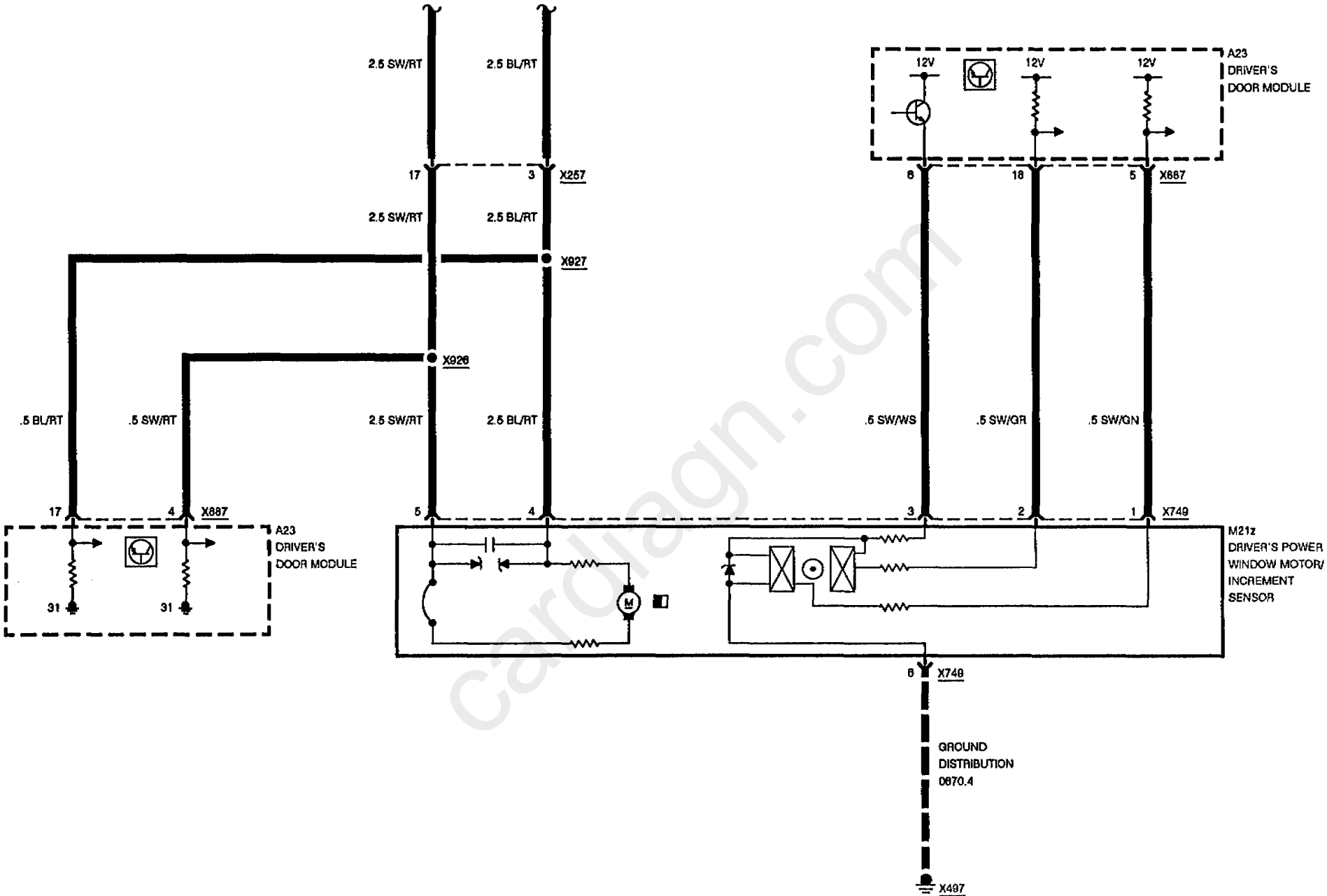


cardiagn.com

ZKE POWER WINDOWS (FH)

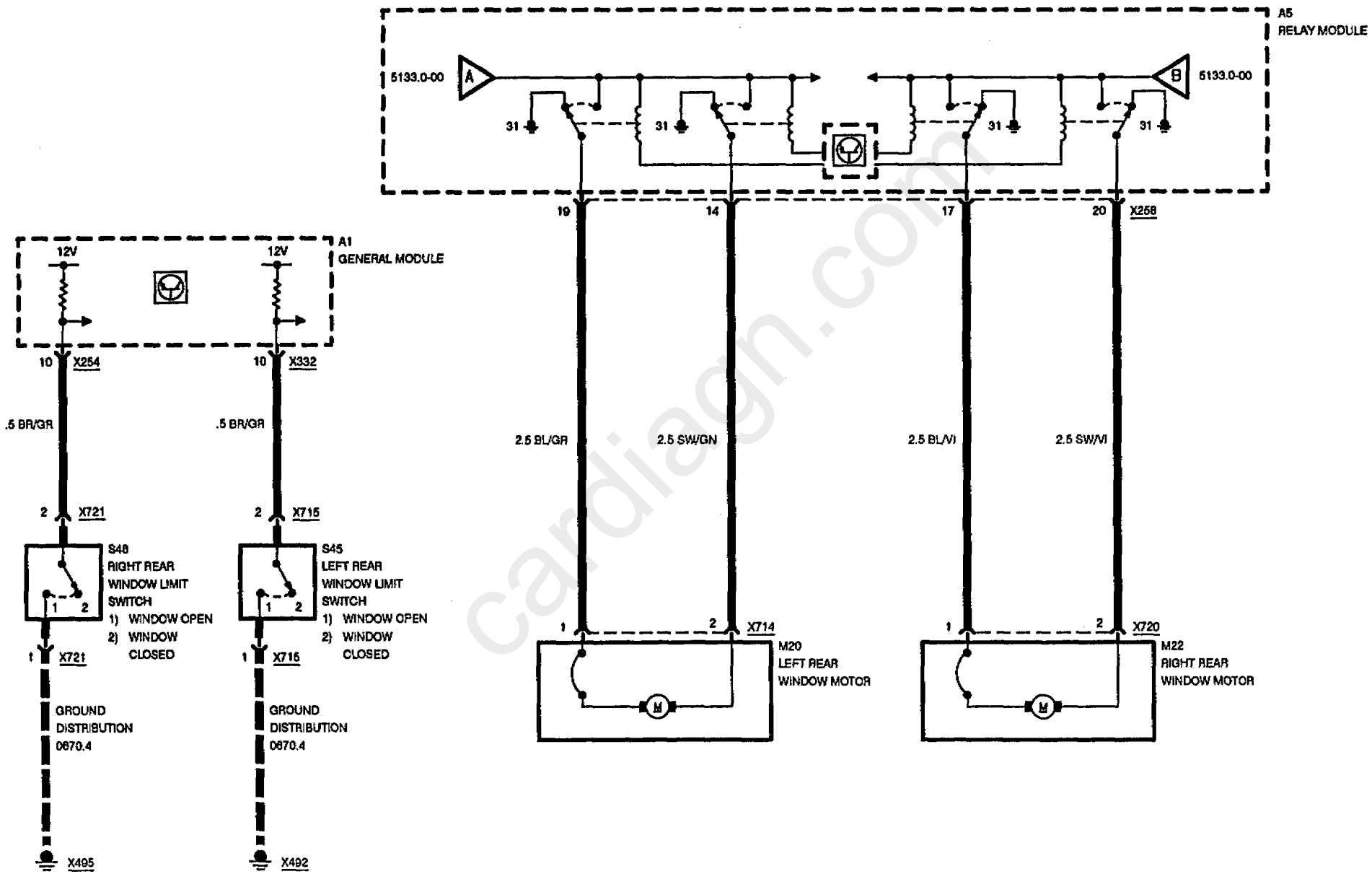


cardiagn.com



cardiagn.com

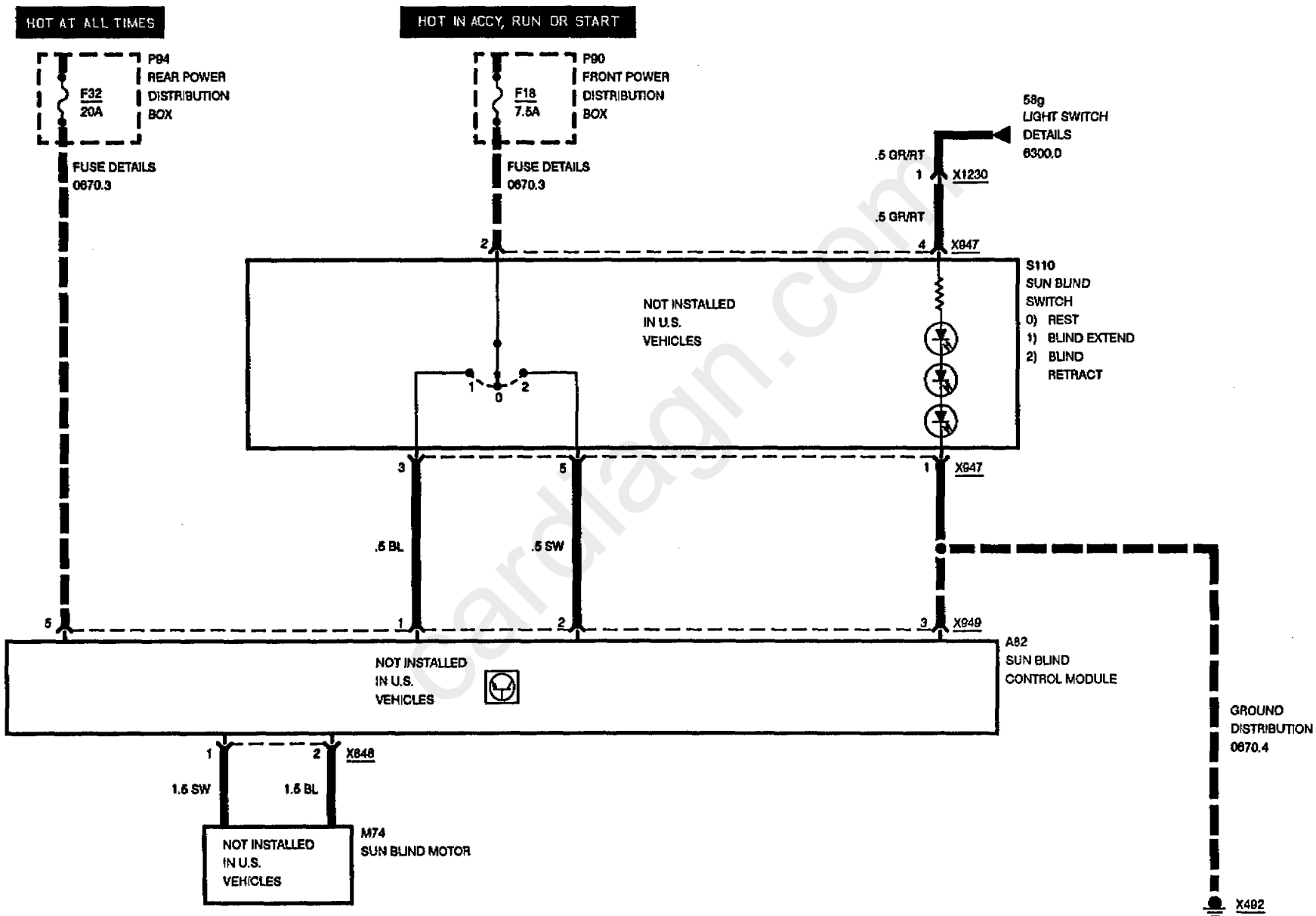
ZKE POWER WINDOWS (FH)



cardiagn.com

carclagn.com

POWER SUN SHADES

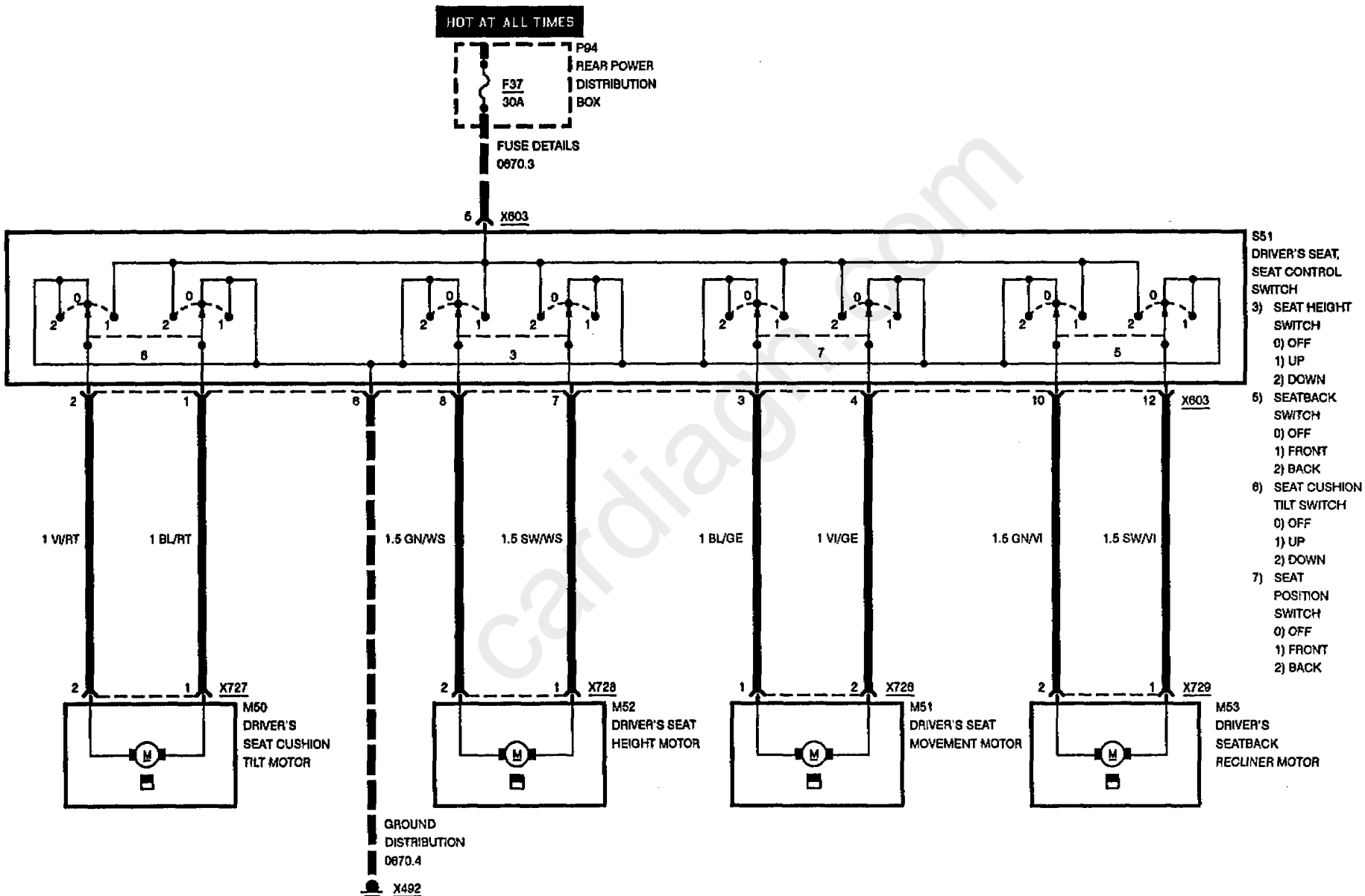


cardiagn.com

carclagn.com

POWER SEATS

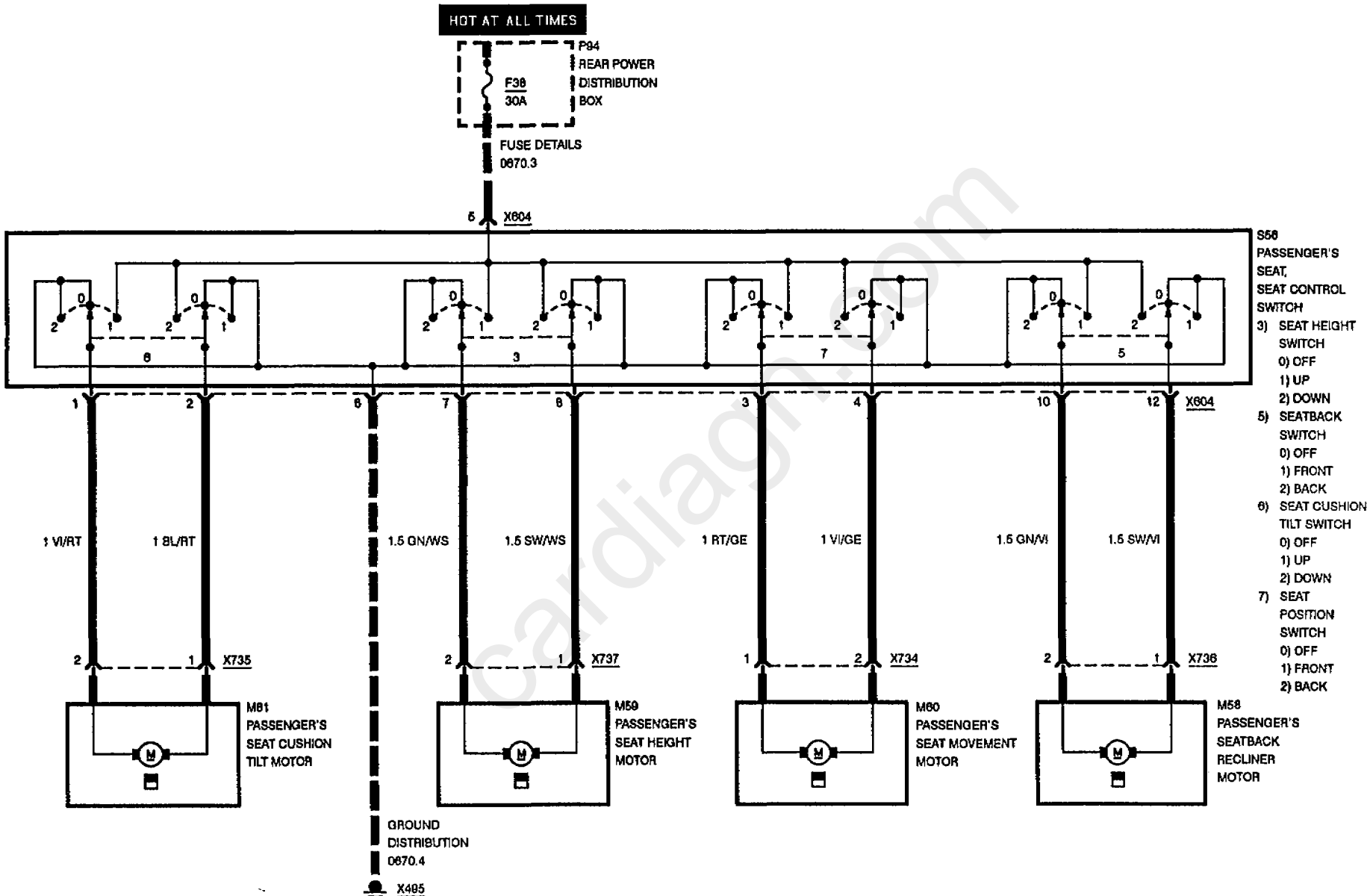
DRIVER'S SEAT



cardiagn.com

POWER SEATS

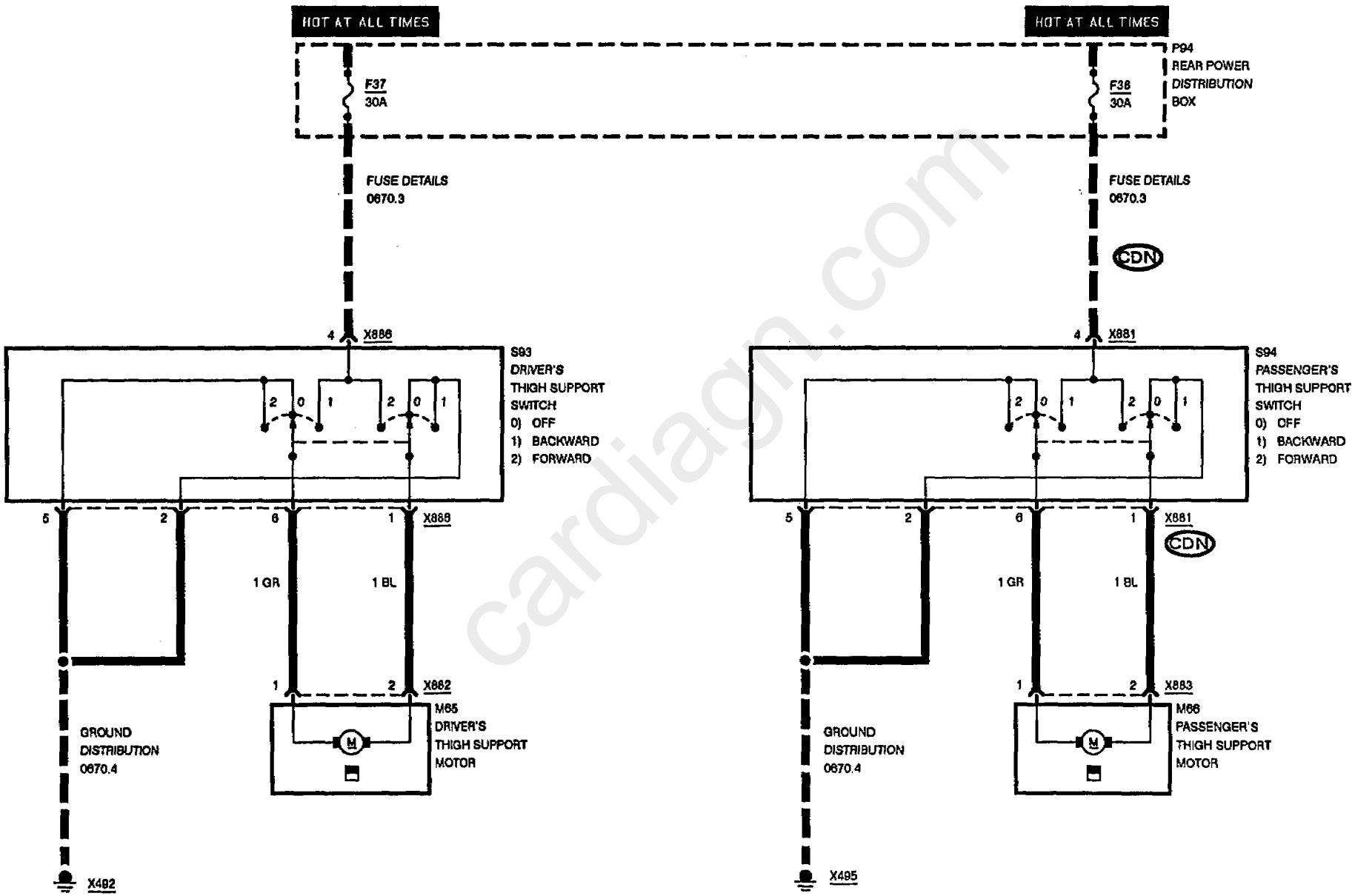
PASSENGER'S SEAT



cardiagn.com

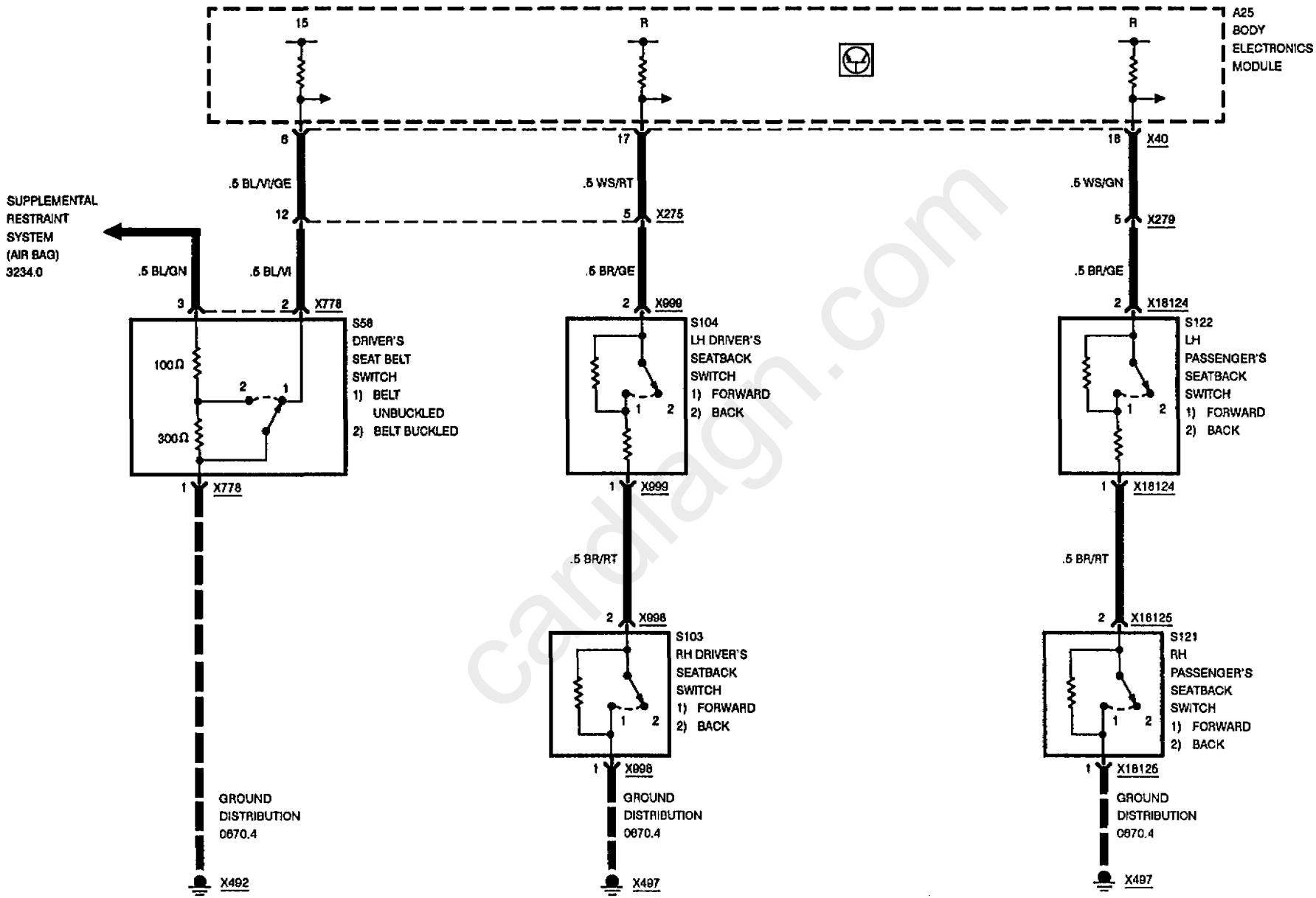
POWER SEATS

THIGH SUPPORT



cardiagn.com

POWER SEATS

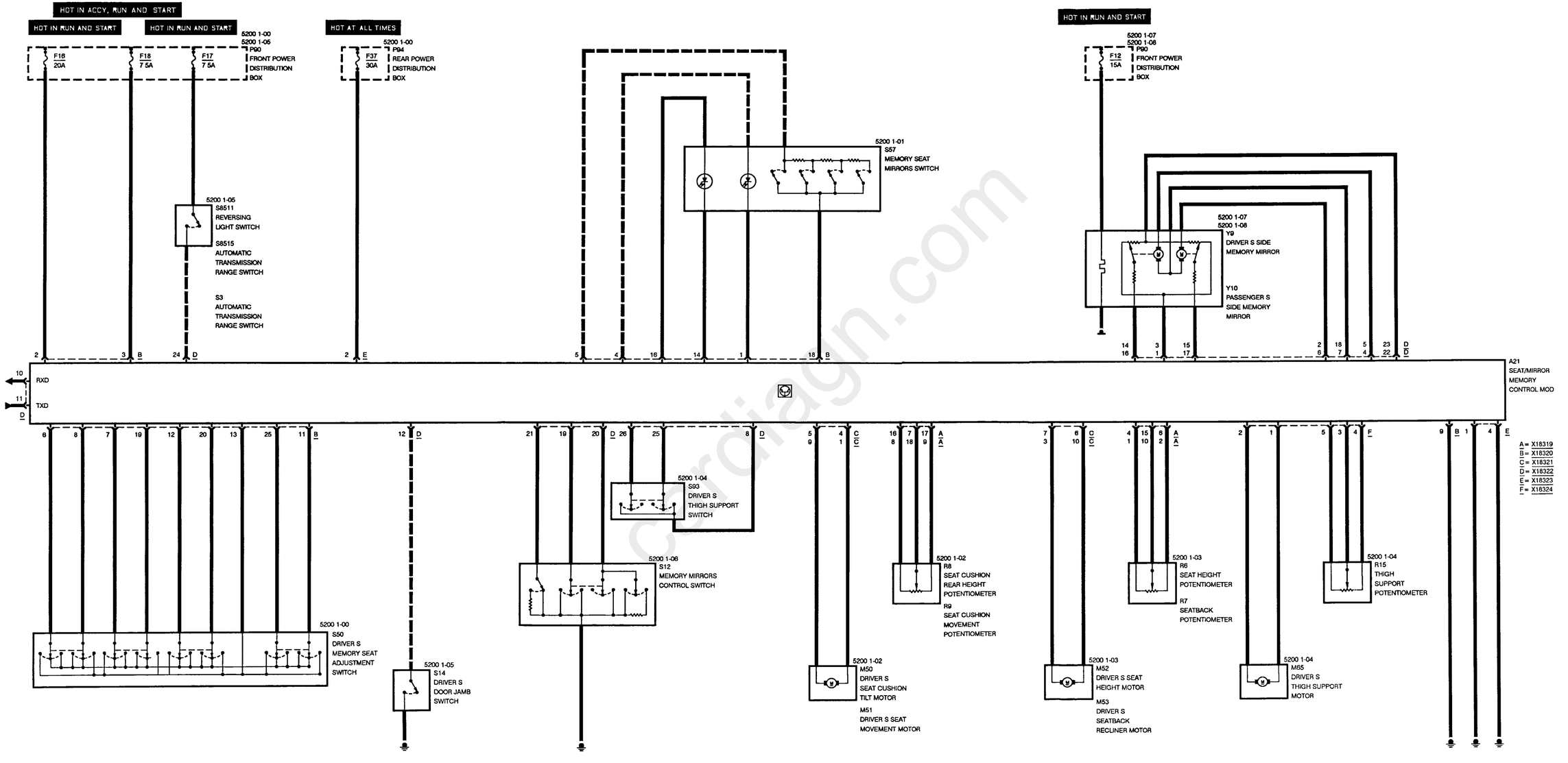


cardiagn.com

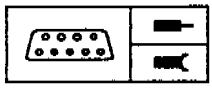
carldiagn.com

12/94 5200 1 1994

12/94 5200 1 1994



carmagn.com



Pin Assignments

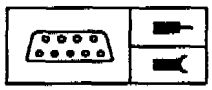
A=X18319	18 pins, black
B=X18320	26 pins, white
C=X18321	10 pins, black
D=X18322	26 pins, black
E=X18323	4 pins, black
F=X18324	5 pins, black

X18319

Pin	Type	Description/Function	Connection
1	A	Potentiometer voltage	Driver's seat back potentiometer
2	M	Ground	Driver's seat back potentiometer
3		Not used	
4	A	Potentiometer voltage	Driver's seat height potentiometer
5		Not used	
6	M	Ground	Driver's seat height potentiometer
7	E	Seat rear height signal	Driver's seat rear height potentiometer
8	A	Potentiometer voltage	Driver's seat movement potentiometer
9	M	Ground	Driver's seat movement potentiometer
10	E	Seat back position signal	Driver's seat back potentiometer
11		Not used	
12		Not used	
13		Not used	
14		Not used	
15	E	Seat height position signal	Driver's seat height potentiometer
16	A	Potentiometer voltage	Driver's seat rear height potentiometer
17	M	Ground	Driver's saet rear height potentiometer
18	E	Seat cushion position signal	Driver's seat movement potentiometer

E = Input, A = Output, M = Ground

satdiagn.com



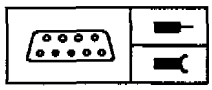
Pin Assignments

X18320

Pin	Type	Description/Function	Connection
1	E	Memory switch connection	Memory switch
2	E	Terminal 15 voltage	Fuse
3	E	Terminal R voltage	Fuse
4	E	Memory switch connection	Memory switch
5	E	Memory switch pin 1	Memory switch
6	E	Seat movement forward	Seat adjustment switch
7	E	Tilt up	Seat adjustment switch
8	E	Seat movement back	Seat adjustment switch
9	M	Ground	Ground point
10		Not used	
11	E	Backrest back	Seat adjustment switch
12	E	Height up	Seat adjustment switch
13	M	Ground	Seat adjustment switch
14	A	Illumination	Memory switch
15		Not used	
16	A	Illumination	Memory switch
17		Not used	
18	E	Memory switch connection	Memory switch
19	E	Tilt down	Seat adjustment switch
20	E	Height down	Seat adjustment switch
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25	E	Backrest forward	Seat adjustment switch
26		Not used	

E = Input, A = Output, M = Ground

cardiagn.com



Pin Assignments

X18321

Pin	Type	Description/Function	Connection
1	E/A	Motor voltage/ground	Driver's seat movement motor
2		Not used	
3	E/A	Motor voltage/ground	Driver's seat back recliner motor
4	E/A	Motor voltage/ground	Driver's seat cushion tilt motor
5	E/A	Motor voltage/ground	Driver's seat cushion tilt motor
6	E/A	Motor voltage/ground	Driver's seat height motor
7	E/A	Motor voltage/ground	Driver's seat height motor
8		Not used	
9	E/A	Motor voltage/ground	Driver's seat movement motor
10	E/A	Motor voltage/ground	Driver's seat back recliner motor

X18322

Pin	Type	Description/Function	Connection
1	E	Potentiometer connection	Passenger's mirror
2	A	Connection, driver's mirror adjustment motor	Driver's mirror
3	M	Ground	Driver's mirror
4	A	Connection, passenger's mirror adjustment motor	Passenger's mirror
5	A	Connection, driver's mirror adjustment motor	Driver's mirror
6	A	Connection, passenger's mirror adjustment motor	Passenger's mirror
7	A	Connection, passenger's mirror adjustment motor	Passenger's mirror
8	M	Ground	Thigh support switch
9		Not used	
10	A	Diagnosis (RxD)	Data link connector
11	E	Diagnosis (TxD)	Data link connector
12	E	Driver's door status	Driver's door jamb switch

E = Input, A = Output, M = Ground

cardiagn.com

Pin Assignments

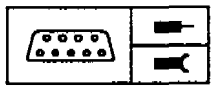
Pin	Type	Description/Function	Connection
13		Not used	
14	E	Potentiometer connection	Driver's mirror
15	E	Potentiometer connection	Driver's mirror
16	E	Potentiometer connection	Passenger's mirror
17	E	Potentiometer connection	Passenger's mirror
18	A	Connection, driver's mirror adjustment motor	Driver's mirror
19	E	Mirror adjustment	Mirror control switch
20	E	Mirror adjustment	Mirror control switch
21	E	Mirror adjustment	Mirror control switch
22	E	Potentiometer connection	Passenger's mirror
23	E	Potentiometer connection	Driver's mirror
24	E	Reverse gear signal	Back-up switch
25	E	Thigh support forward	Thigh support switch
26	E	Thigh support backward	Thigh support switch

X18323

Pin	Type	Description/Function	Connection
1	M	Ground	Ground point
2	E	Terminal 30 voltage	Fuse
3		Not used	
4	M	Ground	Ground point

E = Input, A = Output, M = Ground

cardiagn.com



Pin Assignments

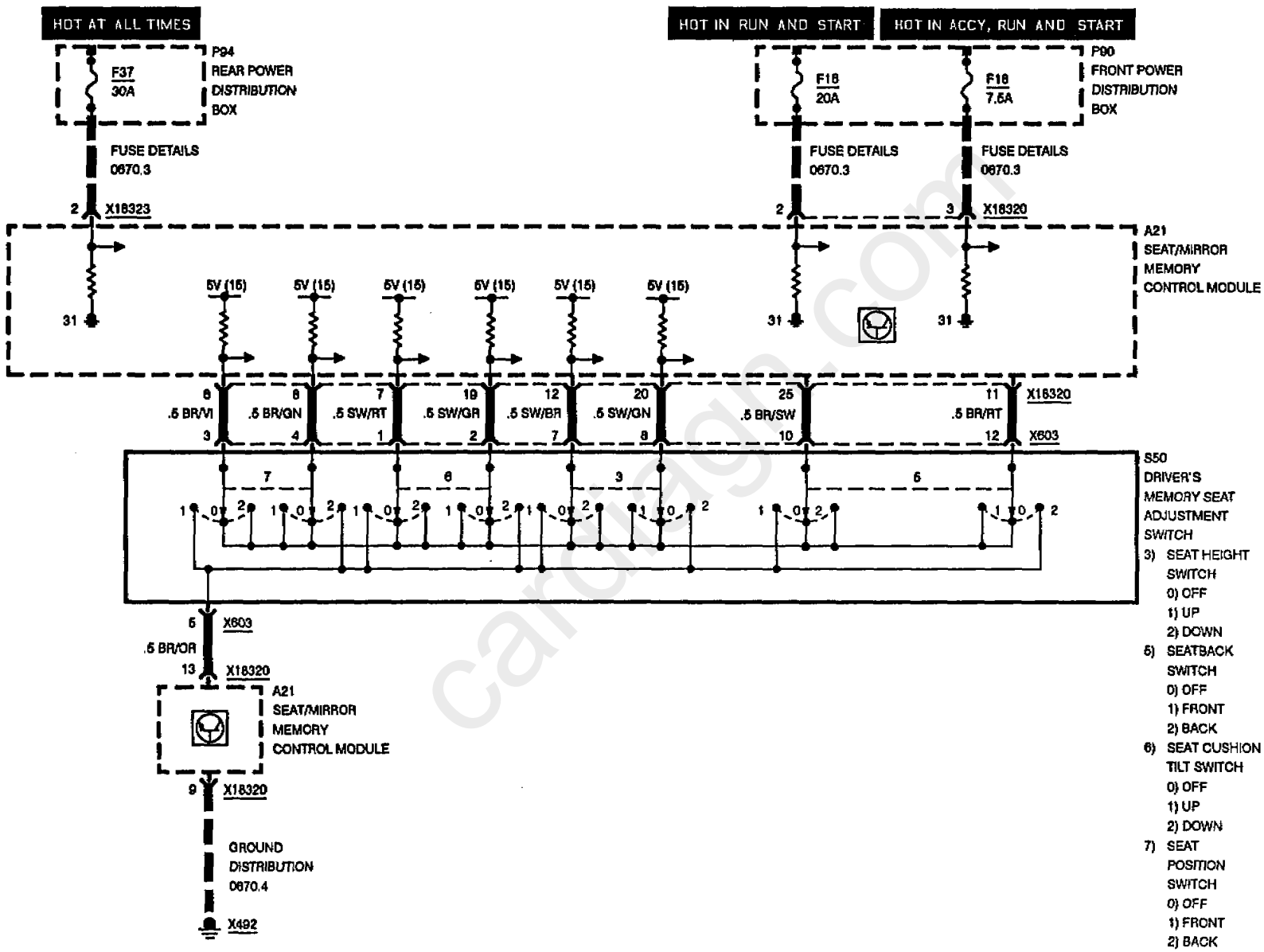
X18324

1	E/A	Motor voltage/ground	Driver's seat thigh support motor
2	E/A	Motor voltage/ground	Driver's seat thigh support motor
3	E	Thigh support position signal	Driver's seat thigh support potentiometer
4	M	Ground	Driver's seat thigh support potentiometer
5	A	Potentiometer voltage	Driver's seat thigh support potentiometer
6		Not used	

cardiagn.com

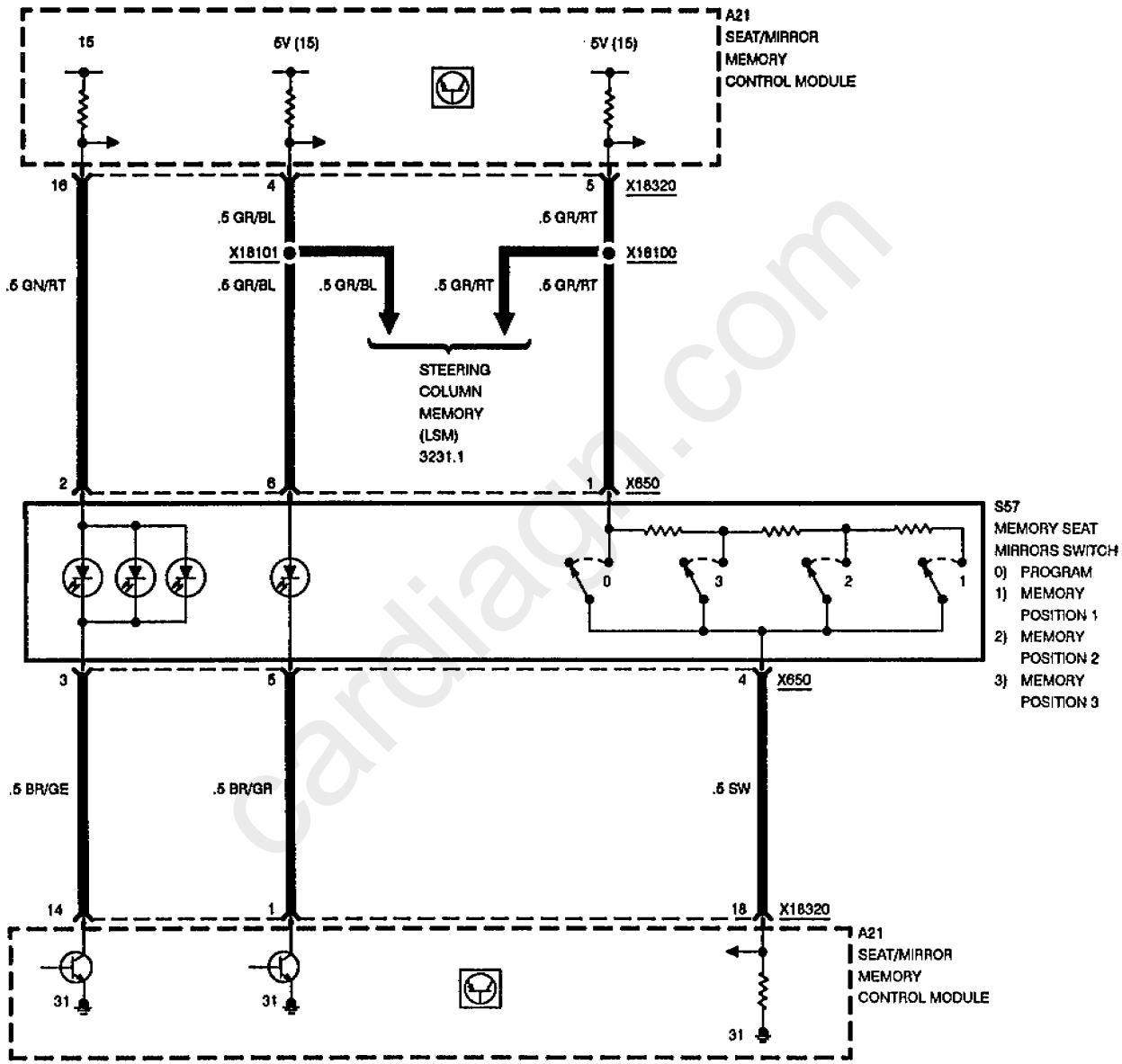
E = Input, A = Output, M = Ground

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



carmagn.com

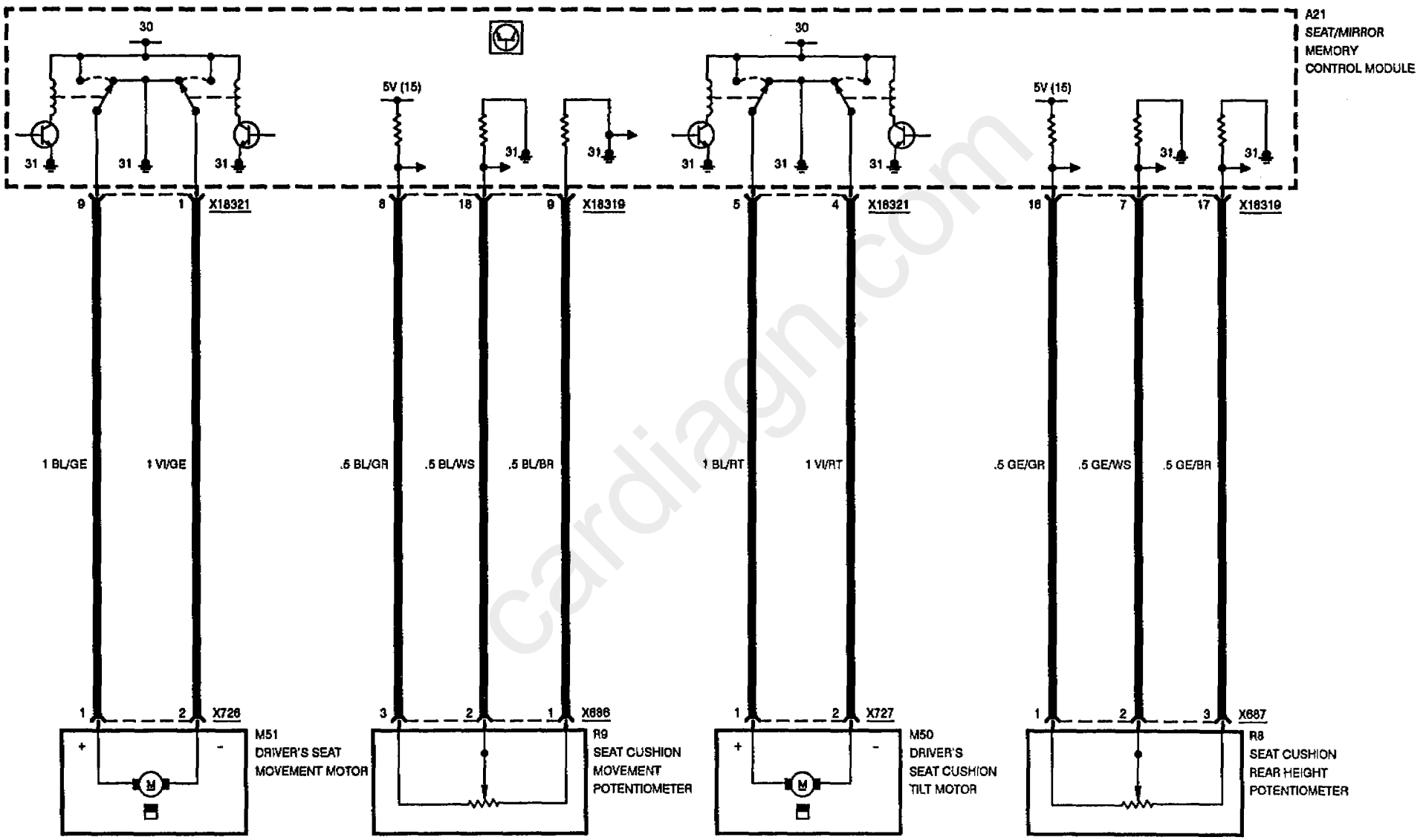
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



cardiagn.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

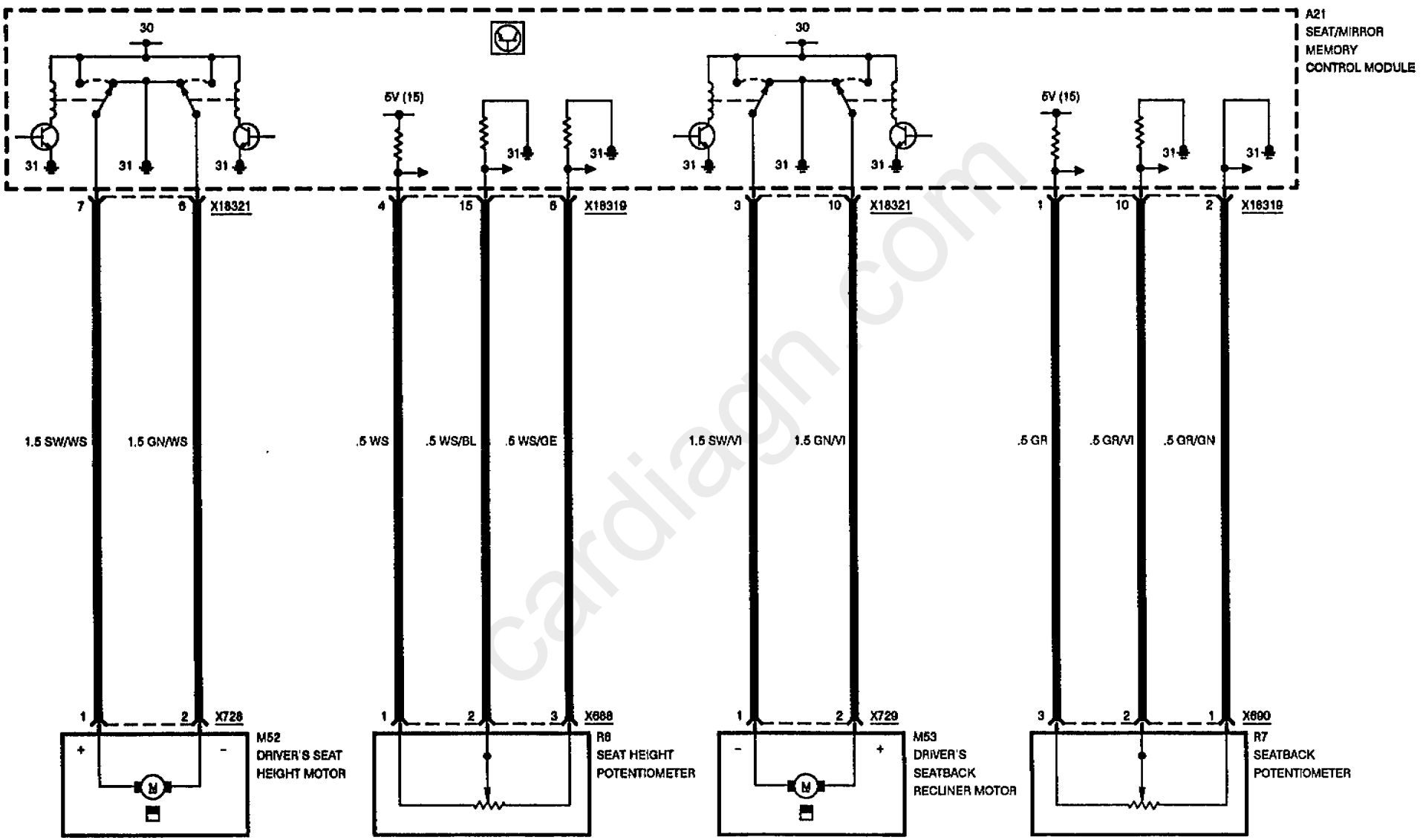
SEAT



cardiagn.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

SEAT

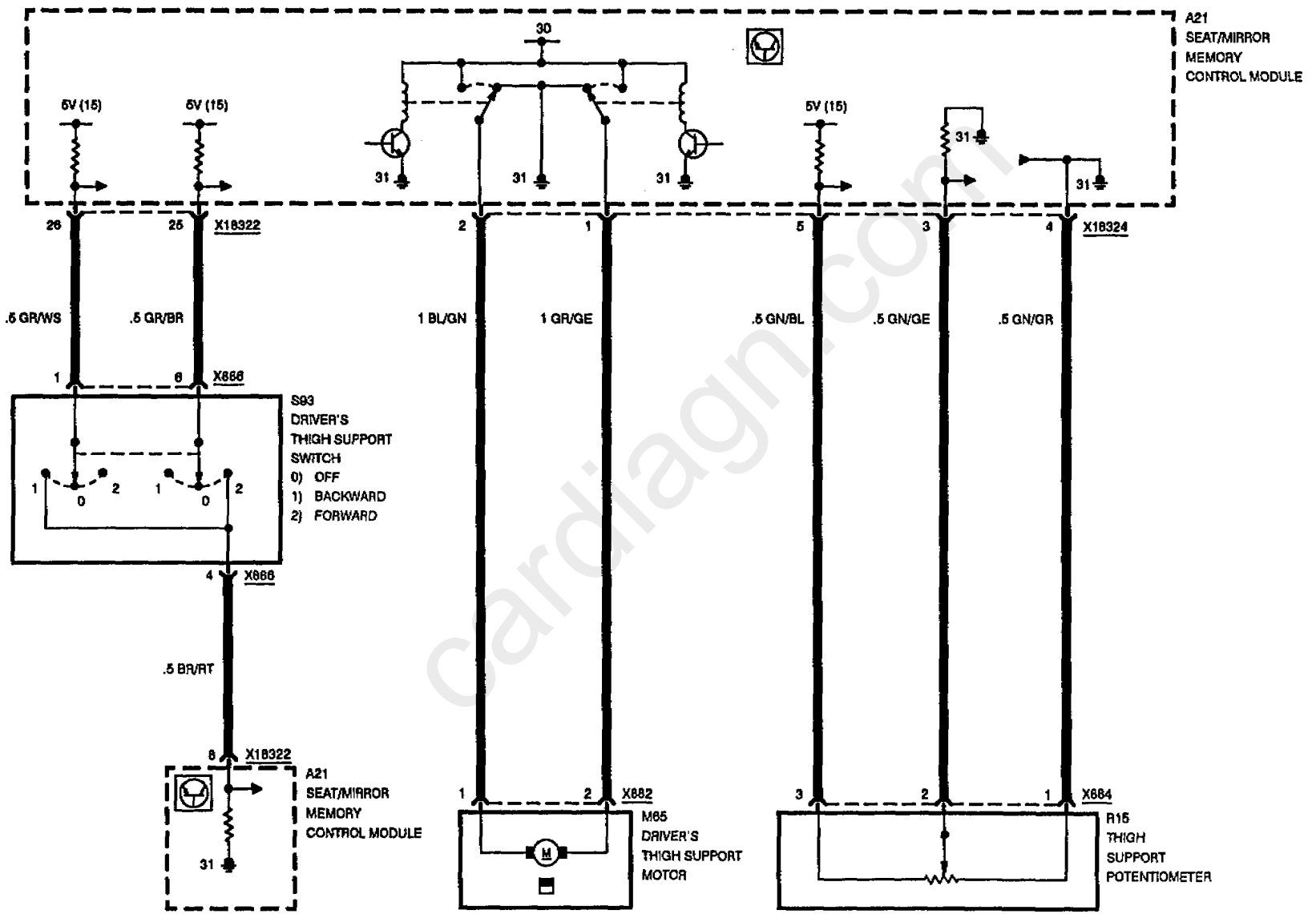


cardiagn.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

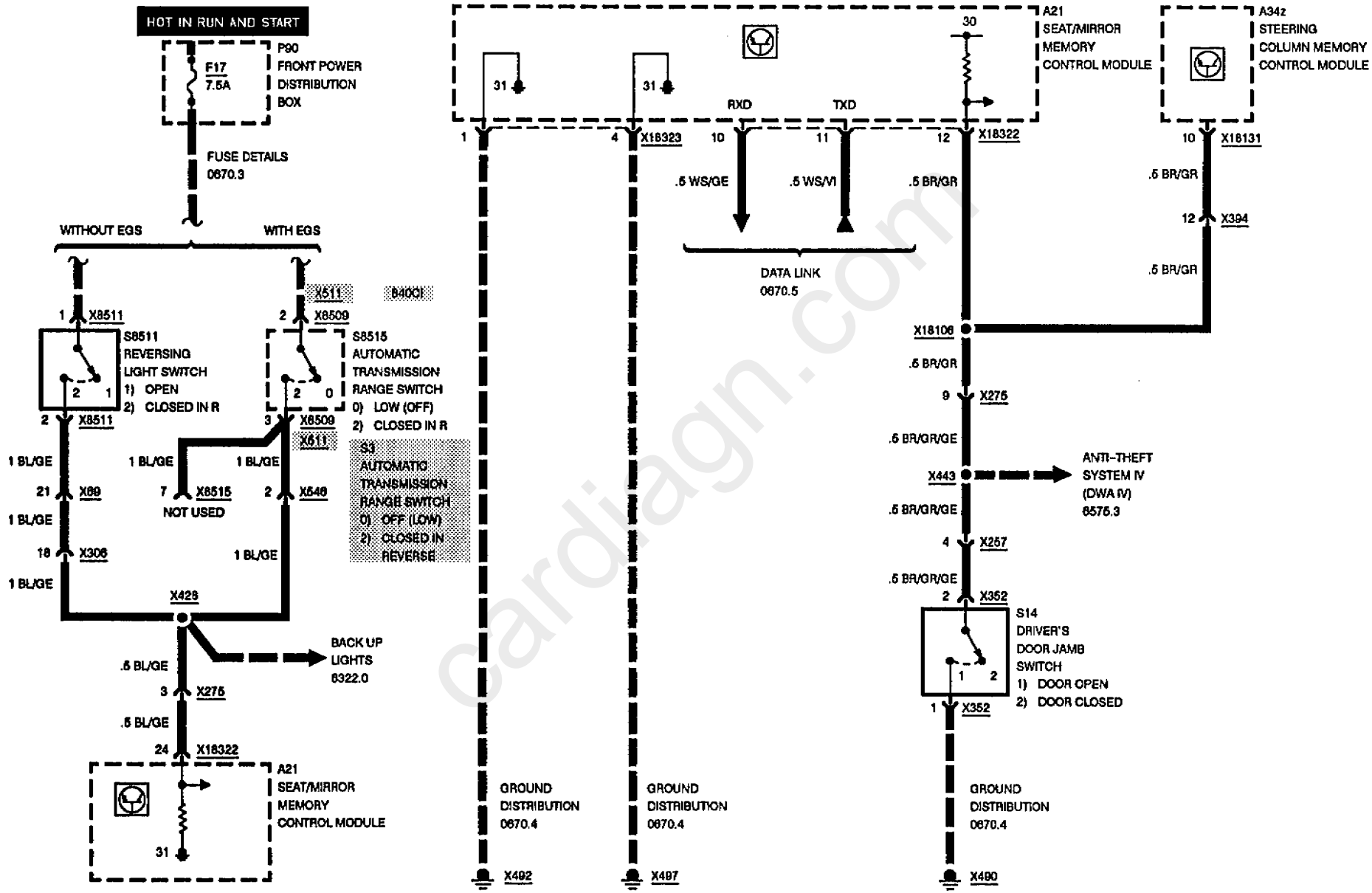
CDN

WITH SPORT SEAT



cardiagn.com

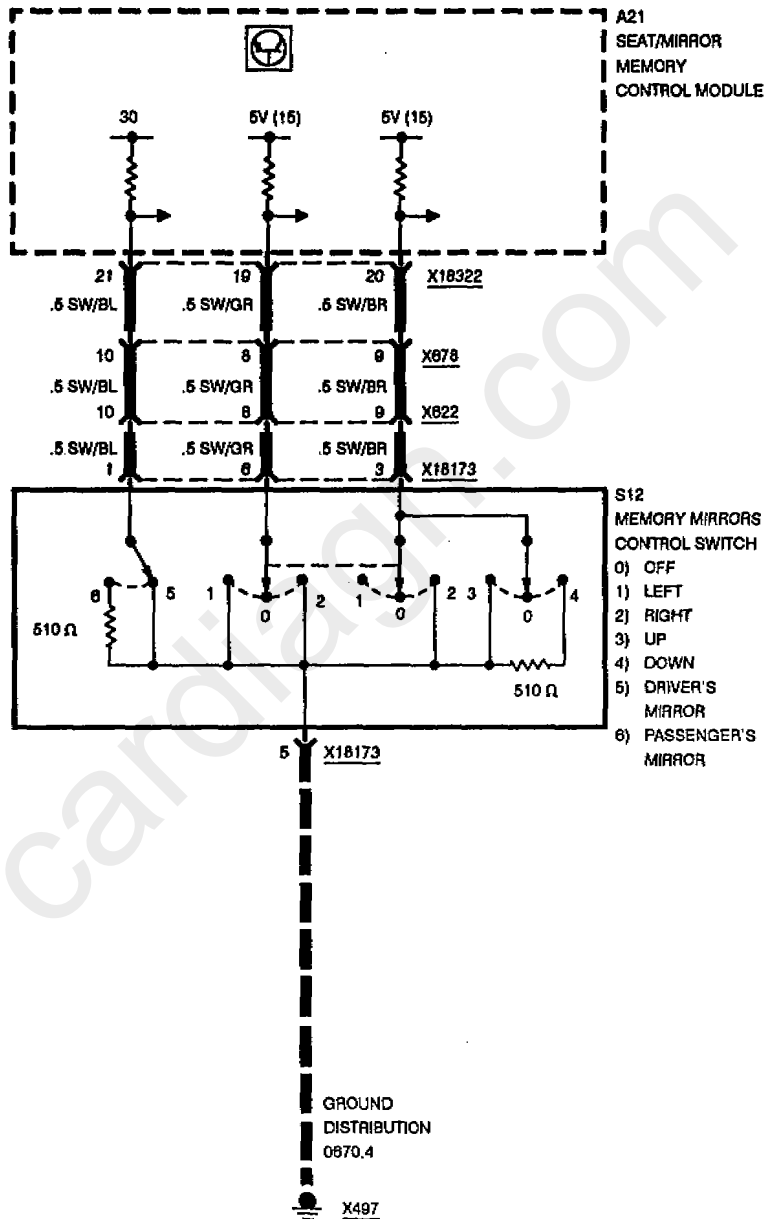
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



cardiagn.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

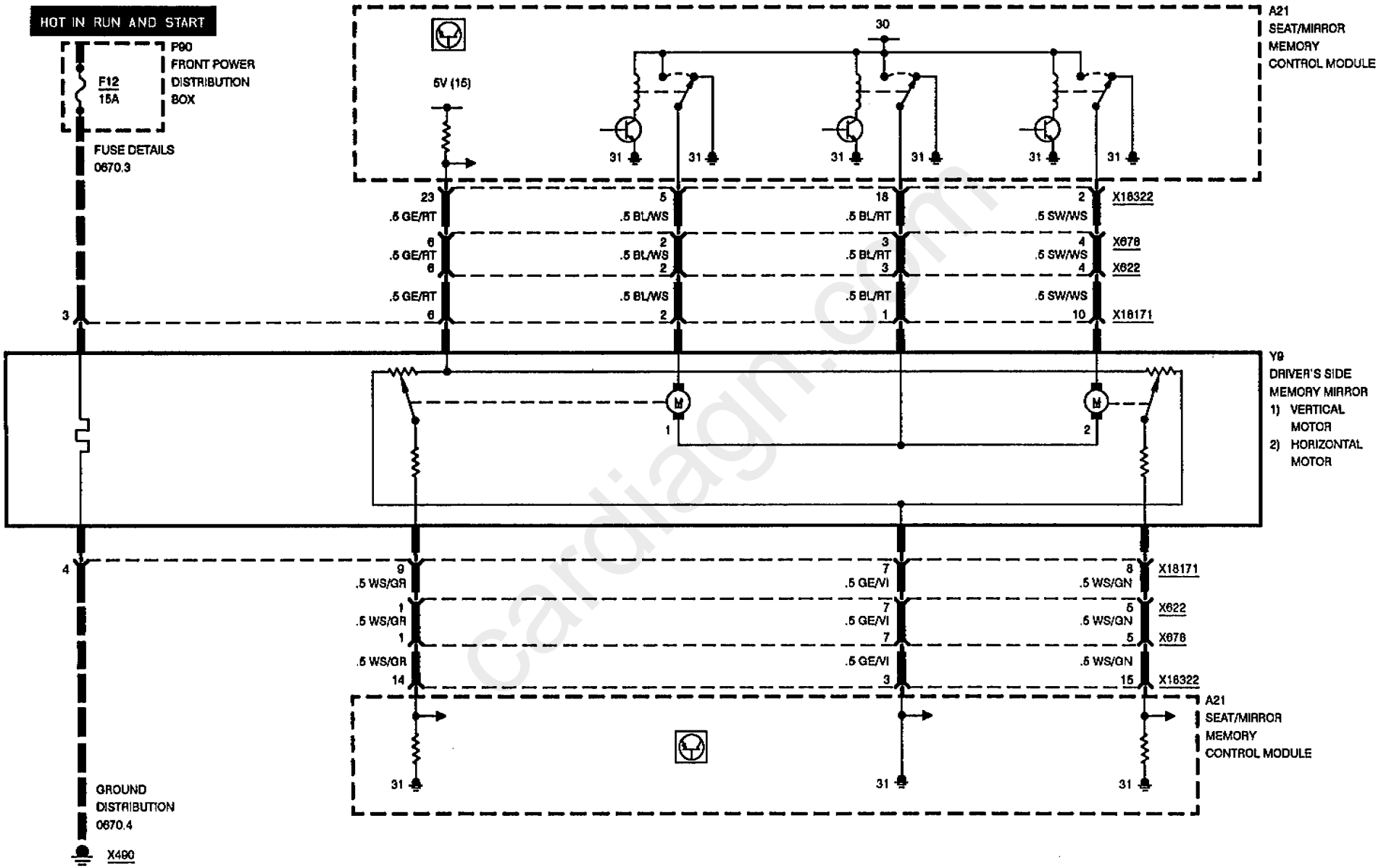
MIRROR



cardiagn.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

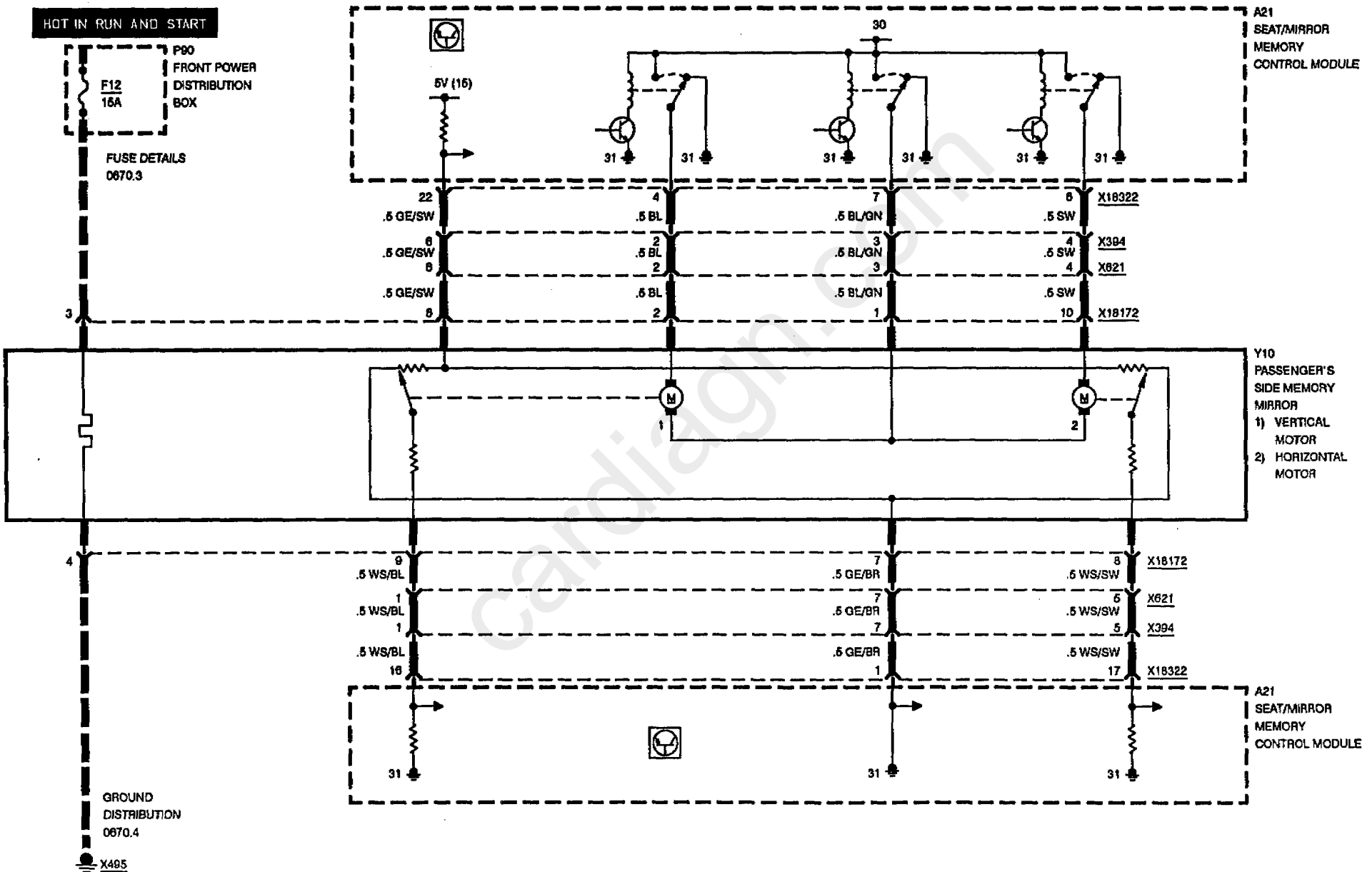
MIRROR



cardiagn.com

SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

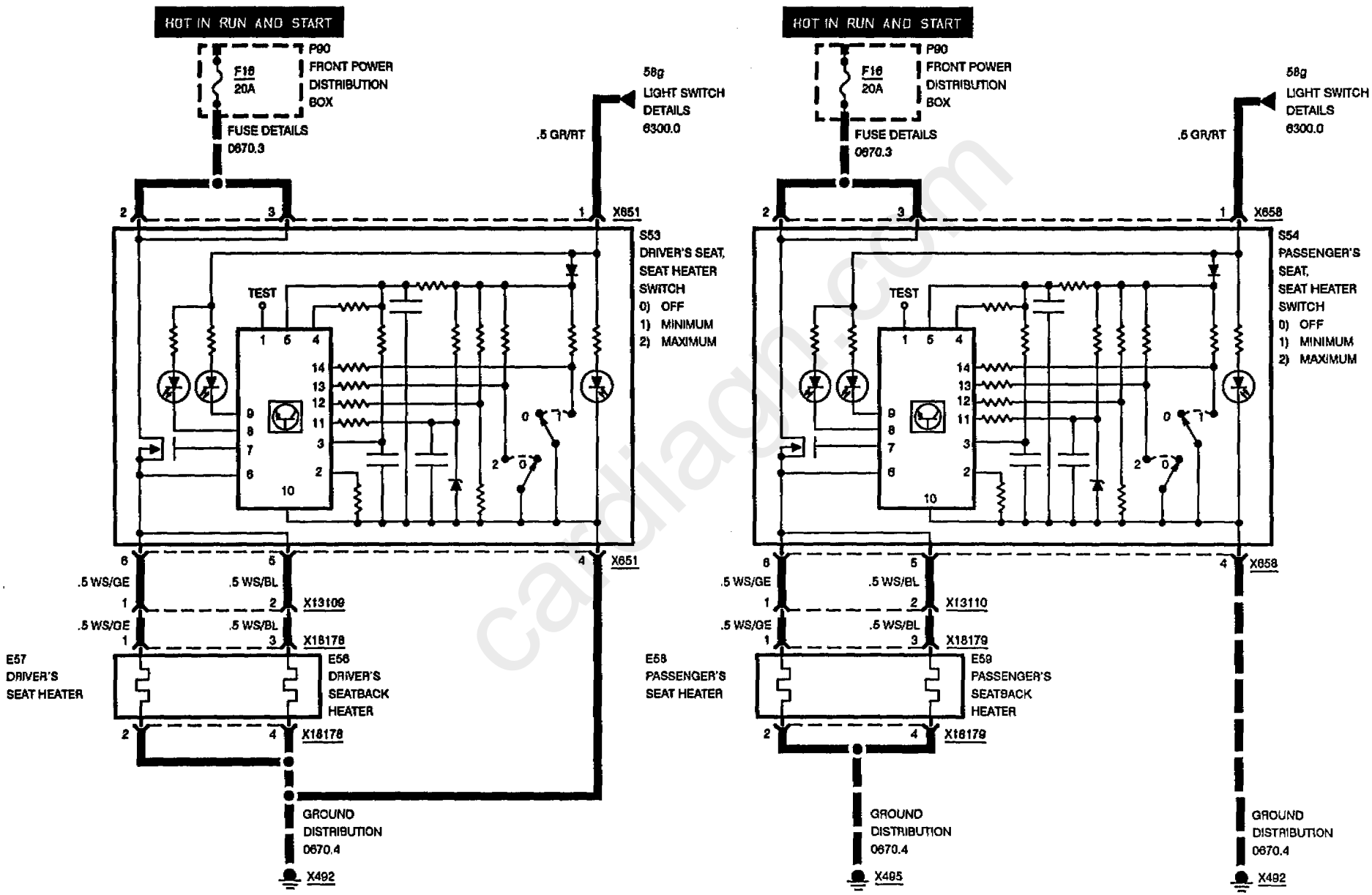
MIRROR



cardiagn.com

cardiagn.com

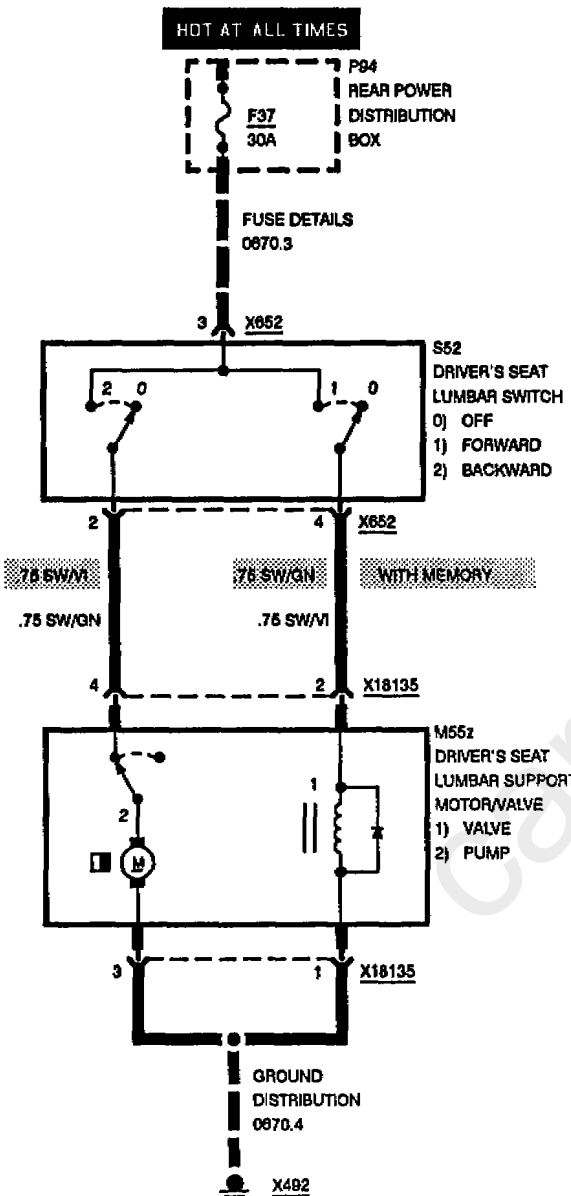
HEATED SEATS

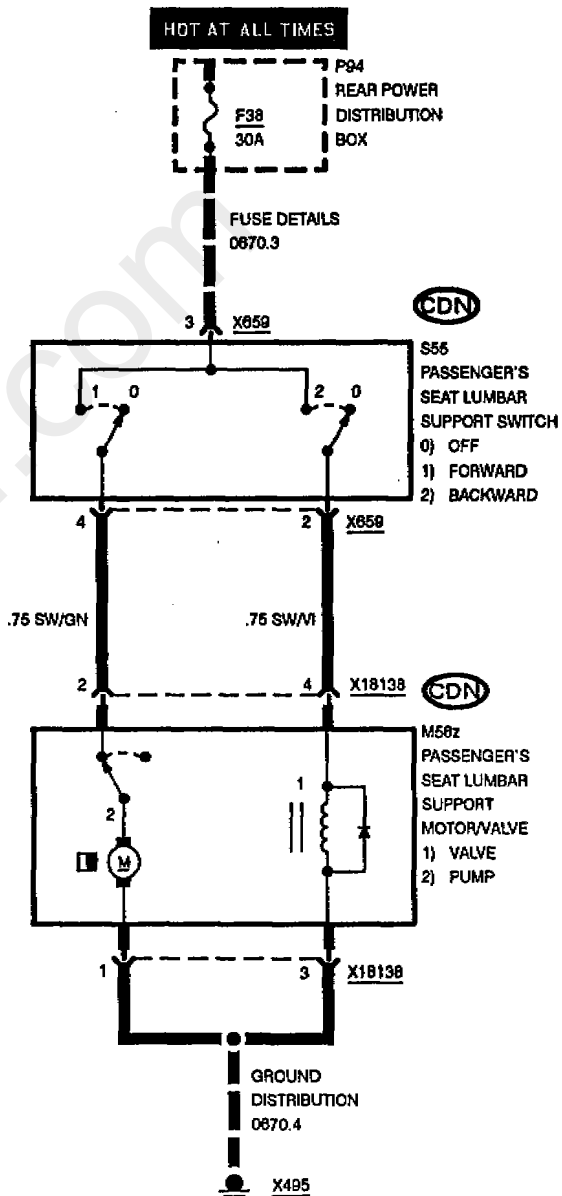


cardiagn.com

carldiagn.com

LUMBAR SUPPORT

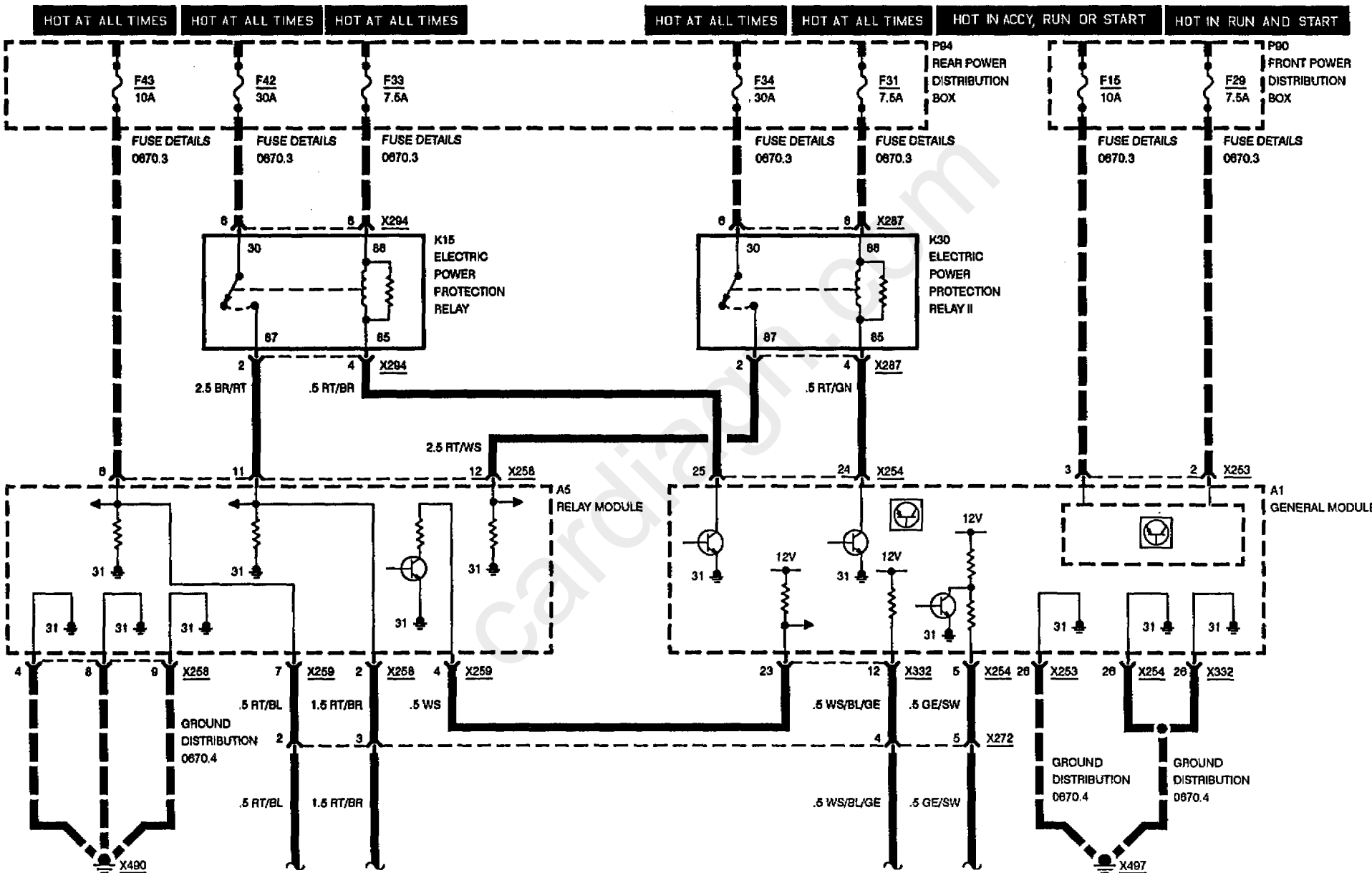


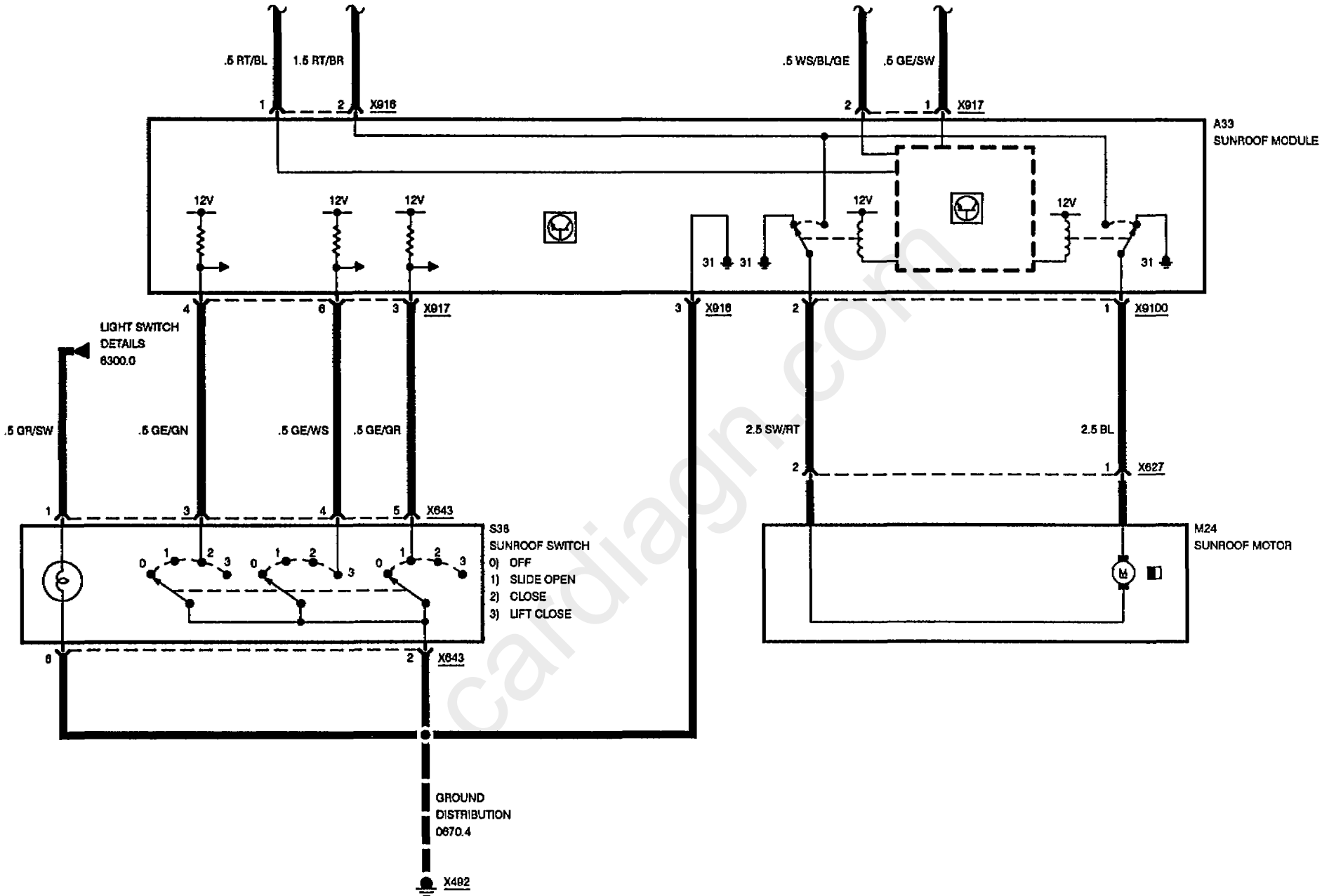


cardiagn.com

cardiagn.com

ZKE SUNROOF (SHD)

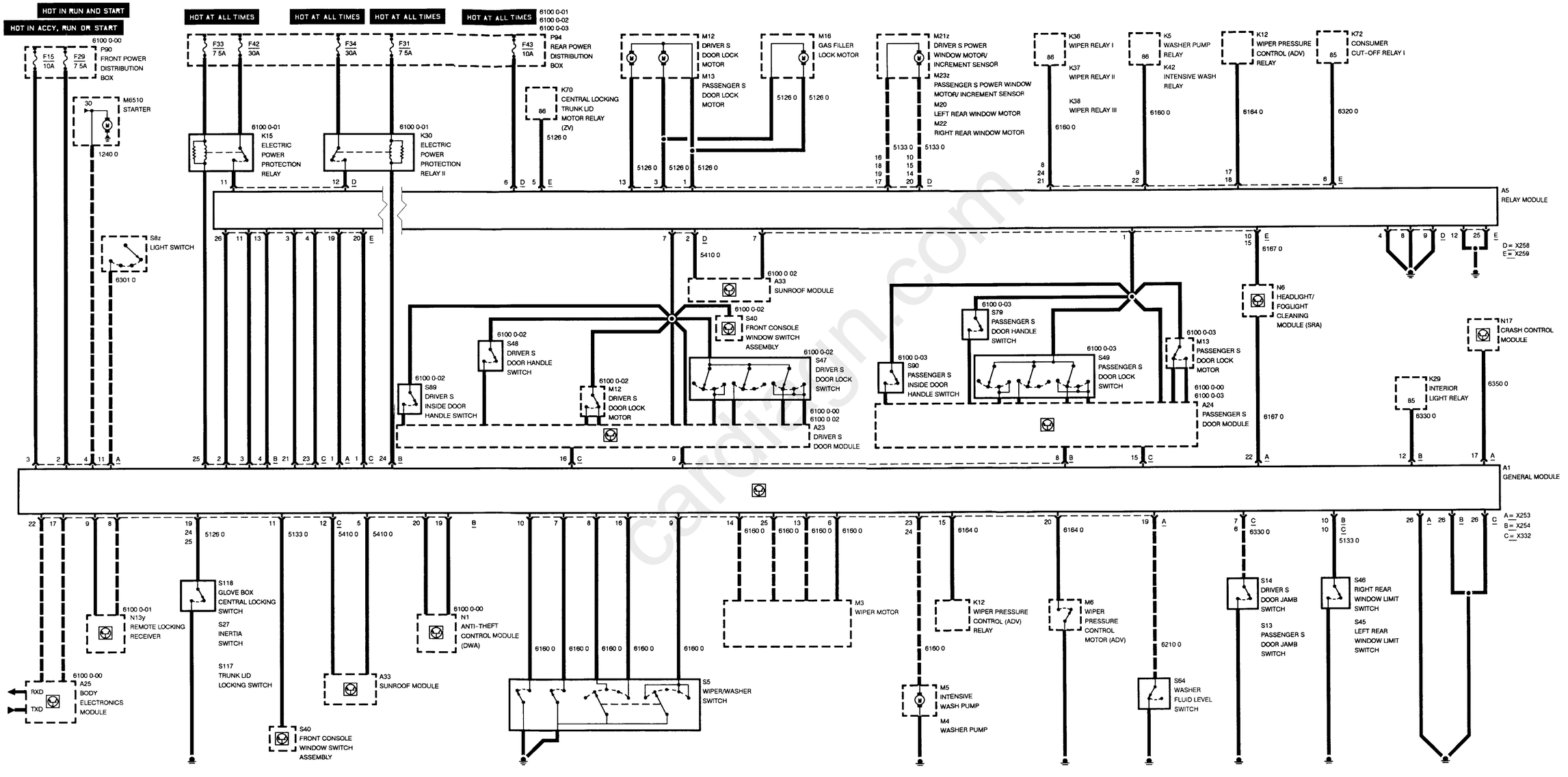




cardiagn.com

cardiagn.com

12/94 — 6100 0 — 1994
12/94 — 6100 0 — 1994



carofun.com

Pin Assignments

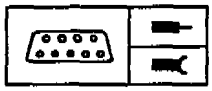
A=X253	26 pins, black
B=X254	26 pins, yellow
C=X332	26 pins, white
D=X258	20 pins, black
E=X259	26 pins, black

X253

Pin	Type	Description/Function	Connection
1	E	Voltage for electronics (30)	Relay module
2	E	Ignition voltage (15)	Fuse
3	E	Voltage (R)	Fuse
4	E	Starter signal (30h)	Starter
5		Not used	
6	E	Wiper reset contact	Wiper motor
7	E	Wash	Wiper/washer switch
8	E	Intermittent wipe	Wiper/washer switch
9	E	Wiper speed: 1	Wiper/washer switch
10	E	Intensive wash/telephone	Wiper/washer switch
11	E	Headlamp on (58)	Light switch
12		Not used	
13	E	Diagnosis, wiper relay (speed 1/2)	Wiper relay III/wiper motor
14	E	Diagnosis, wiper relay (park)	Wiper relay I/wiper motor
15	E	Diagnosis, ADV	Wiper pressure control (ADV) relay
16	E	Wiper speed: 2	Wiper/washer switch
17	A	Interface to hazard warning lights	Crash control unit
18		Not used	
19	E	Low washer fluid warning	Washer fluid level switch
20	E	ADV cam switch	Wiper pressure control motor (ADV)
21		Not used	
22	E	Diagnosis, headlight washer module	Headlight washer (SRA)
23	E	Diagnosis, intensive wash	Intensive wash relay and pump
24	E	Diagnosis, washer pump and relay	Washer pump and relay

E = Input, A = Output, M = Ground

carldiagram.com



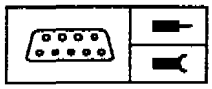
Pin Assignments

Pin	Type	Description/Function	Connection
25	E	Diagnosis, wiper relay (speed 1/2)	Wiper relay III/wiper motor
26	M	Ground for electronics (31)	Ground point

X254

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Relay module interface	Relay module
3	A	Relay module interface	Relay module
4	A	Relay module interface	Relay module
5	A	Interface to sunroof	Sunroof module
6		Not used	
7		Not used	
8	A	Interface to passenger's door module	Passenger's door module
9	A	Interface to driver's door module	Driver's door module
10	E	Right rear window contact	Window limit switch
11		Not used	
12	A	Interior light relay activation	Interior light relay
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19	A	Interface to DWA	DWA
20	A	Interface to DWA	DWA
21		Not used	
22		Not used	
23		Not used	
24	A	Electronic power protection: Activation for passenger's side relay	Electric power protection relay

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
25	A	Electronic power protection: Activation for driver's side relay	Electric power protection relay
26	M	Ground for electronics (31)	Ground point

X332

Pin	Type	Description/Function	Connection
1	E	Voltage for electronics (30)	Relay module
2		Not used	
3		Not used	
4		Not used	
5		Not used	
6	E	Passenger's door contact	Passenger's door jamb switch
7	E	Driver's door contact	Driver's door jamb switch
8	E	Interface from antitheft	N13y Remote control
9	E	Interface from antitheft	N13y Remote control
10	E	Left rear window contact	Window limit switch
11	E	Interface from power windows	Power window switch assembly
12	E	Interface from sunroof	Sunroof module
13		Not used	
14		Not used	
15	E	Interface from passenger's door module	Passenger's door module
16	E	Interface from driver's door module	Driver's door module
17	E/A	I-bus interface	Body electronics module (EKM)
18		Not used	
19	E	Lock glove box signal	Glove box locking switch
20		Not used	
21	E	Interface from relay module; diagnostic feedback RM functions	Relay module
22	E	Vehicle speed signal	Body electronics module (EKM)
23	E	Interface from relay module; power measurement RM functions	Relay module

E = Input, A = Output, M = Ground

cardiagn.com

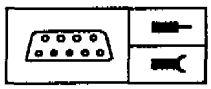
Pin Assignments

Pin	Type	Description/Function	Connection
24	E	Crash sensor	Inertia switch
25	E	Command, unlock rear lid	Trunk lid locking switch
26	M	Ground for electronics (31)	Ground point

X258

Pin	Type	Description/Function	Connection
1	A	Activation of ZV motors: Unlock	Door and gas filler lock motors
2	A	Voltage for power circuit on driver's side from electronic power protection	Sunroof module
3	A	Activation of ZV motors: Lock	Door and gas filler lock motors
4	M	Ground for electronics	Ground point
5		Not used	
6	E	Voltage (30) for electronics for all ZKE modules	Fuse
7	A	Voltage for driver's door module electronics	Driver's door module
8	M	Ground for ZV and FH motors	Ground point
9	M	Ground for ZV and FH motors	Ground point
10	A	Activation FH motor: driver's door, open	Driver's window motor (FH)
11	E	Voltage for power circuit on driver's side from electronic power protection	Electric power protection relay
12	E	Voltage for power circuit on passenger's side from electronic power protection	Electric power protection relay
13	A	Activation ZV motors: Central arrest	Door lock motors (ZV)
14	A	Activation FH motor: Left rear side, close	Left rear window motor (FH)
15	A	Activation FH motor: Passenger's door, open	Passenger's window motor (FH)
16	A	Activation FH motor: Driver's door, close	Driver's window motor (FH)
17	A	Activation FH motor: Right rear side, open	Right rear window motor (FH)
18	A	Activation FH motor: Passenger's door, close	Passenger's window motor (FH)
19	A	Activation FH motor: Left rear side, open	Left rear window motor (FH)
20	A	Activation FH motor: Right rear side, close	Right rear window motor (FH)

E = Input, A = Output, M = Ground



Pin Assignments

X259

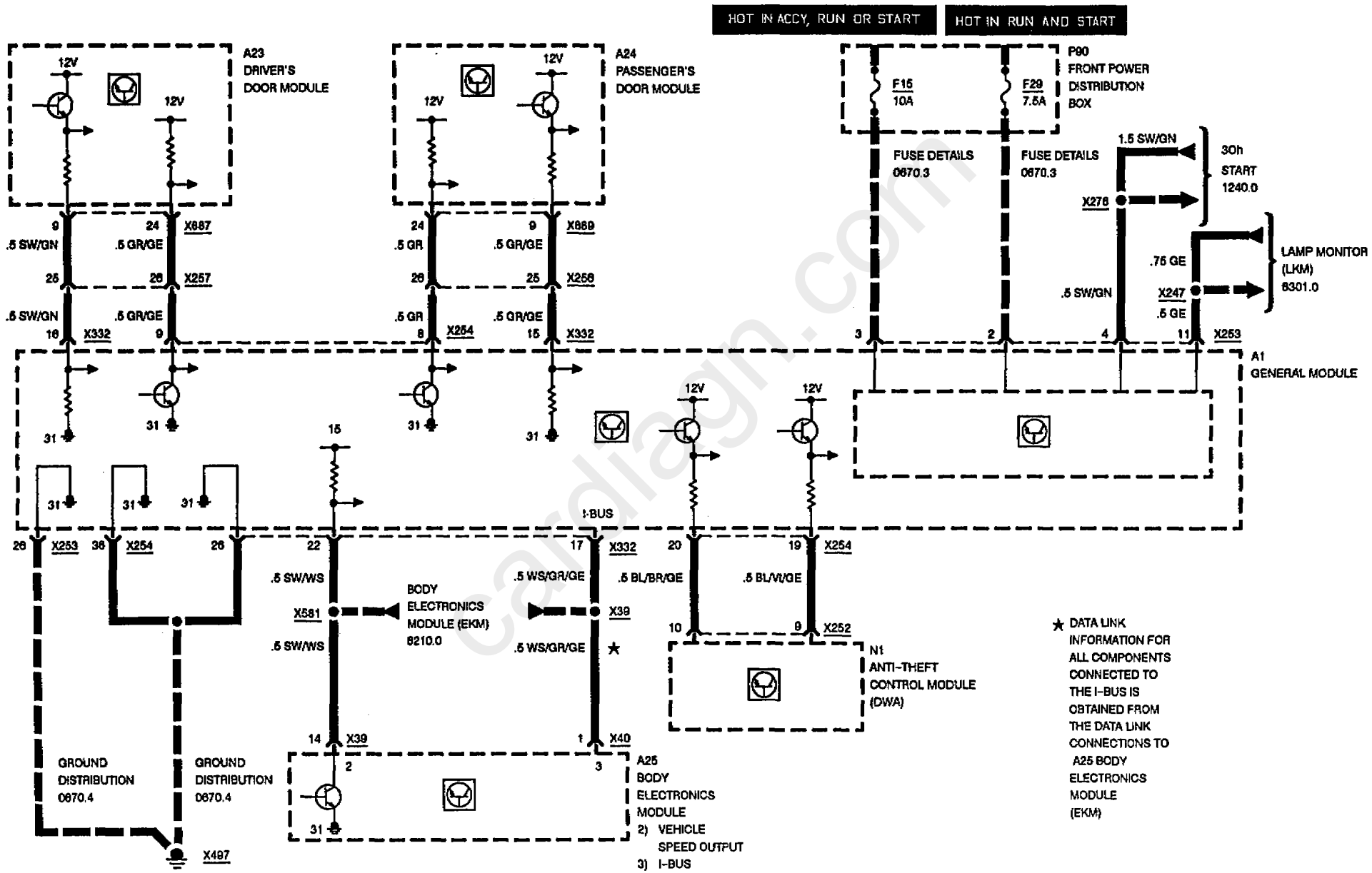
Pin	Type	Description/Function	Connection
1	A	Voltage for passenger's door module electronics	Passenger's door module
2		Not used	
3	A	Interface to general module, diagnostic feedback RM function	General module
4	A	Interface to general module, power measurement RM	General module
5	A	Relay activation, unlock rear lid	Trunk lid motor relay
6	A	Relay activation, load cut-out	Consumer cut-off relay I
7	A	Voltage for sunroof module electronics	Sunroof module
8	A	Relay activation, wiper park position	Wiper relay I
9	A	Relay activation, washer pump	Washer pump relay
10	A	SRA module activation: Headlight washer	Headlight washer module (SRA)
11	A	General module interface	General module
12	M	Ground for electronics	Ground point
13	A	General module interface	General module
14		Not used	
15	A	SRA module activation: Washer pump luggage compartment	Headlight washer module (SRA)
16		Not used	
17	A	ADV module activation: Reduce pressure	Wiper pressure control relay (ADV)
18	A	ADV module activation: Increase pressure	Wiper pressure control relay (ADV)
19	A	Voltage for general module electronics	General module
20	A	Voltage for general module electronics	General module
21	A	Relay activation, wiper speed 2	Wiper relay III
22	A	Relay activation, intensive wash (SIR)	Intensive wash relay
23		Not used	
24	A	Relay activation, wiper speed 1	Wiper relay II
25	M	Ground for electronics	Ground point
26	A	General module interface	General module

E = Input, A = Output, M = Ground

cardiagn.com

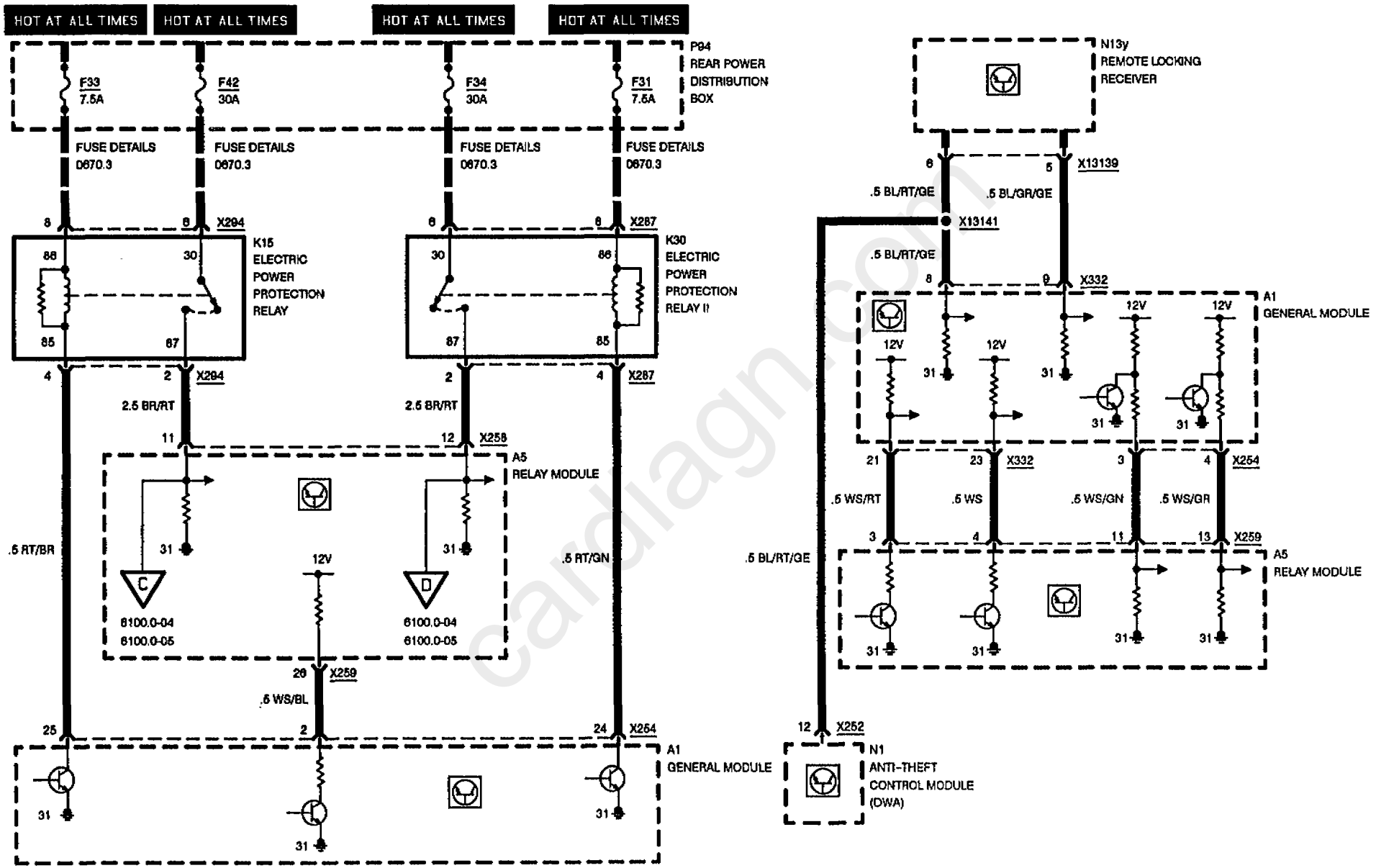
CENTRAL BODY ELECTRONICS (ZKE II)

GENERAL MODULE



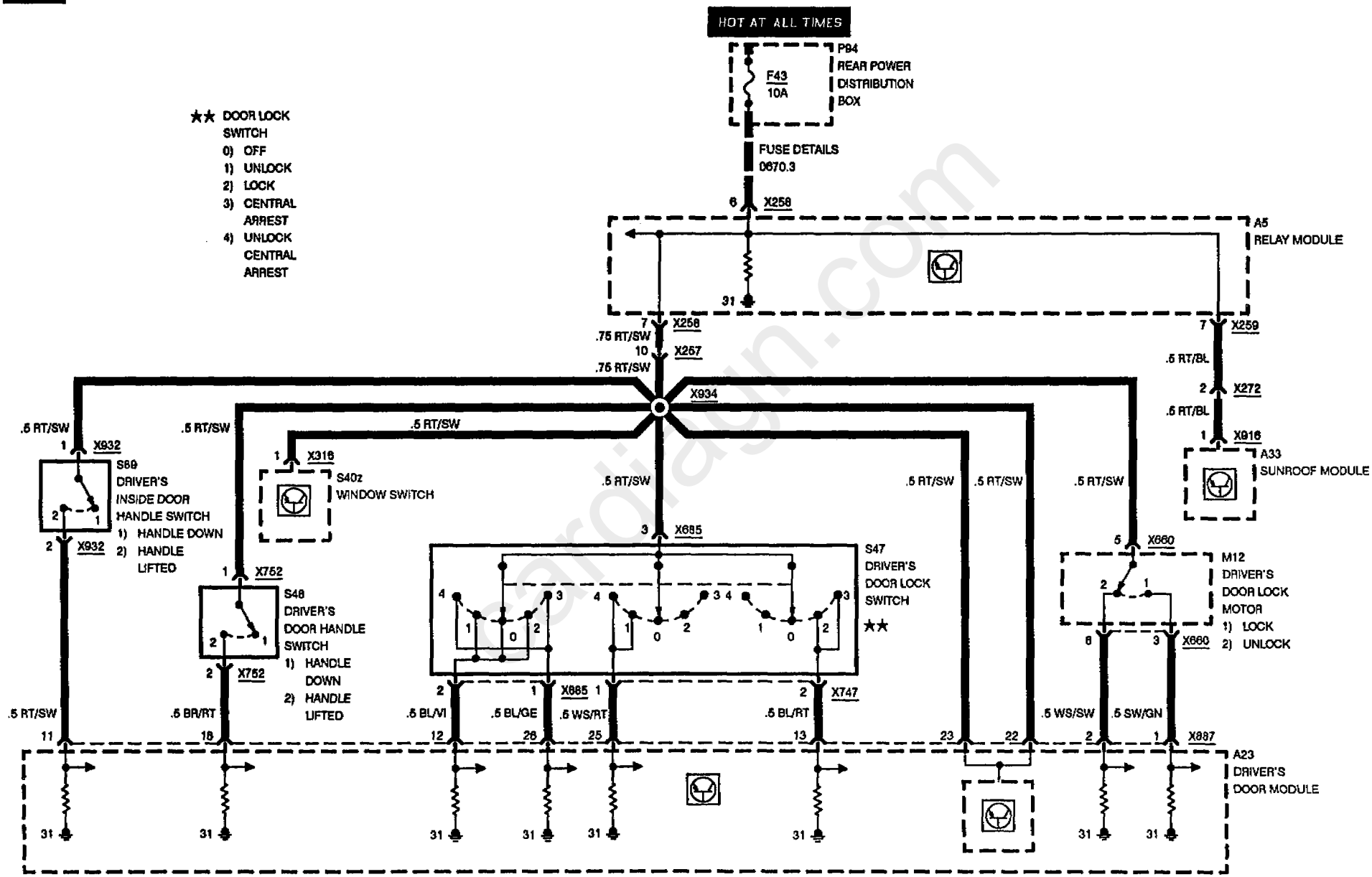
cardiagn.com

CENTRAL BODY ELECTRONICS (ZKE II)



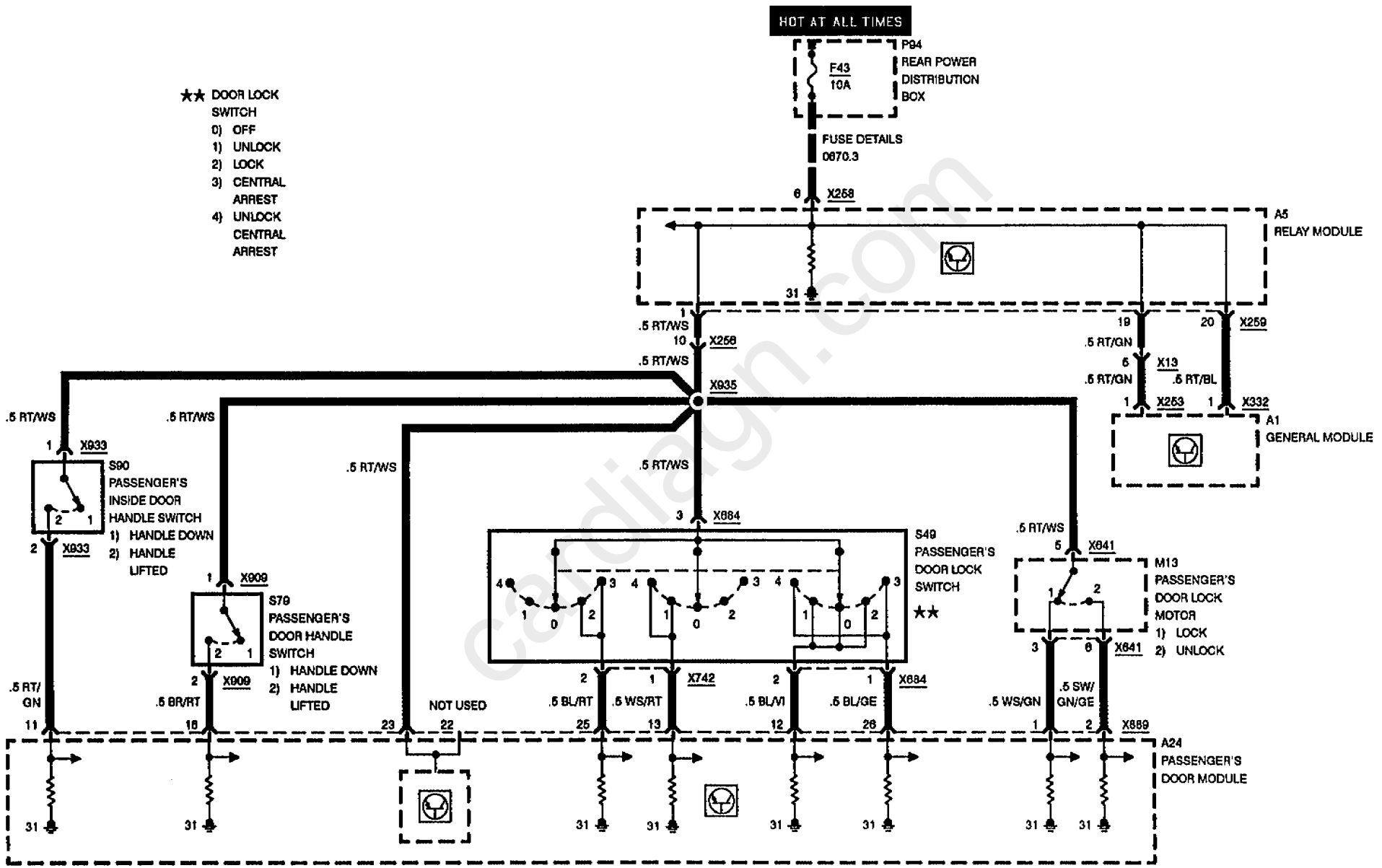
cardiagn.com

CENTRAL BODY ELECTRONICS (ZKE II)



cardiagn.com

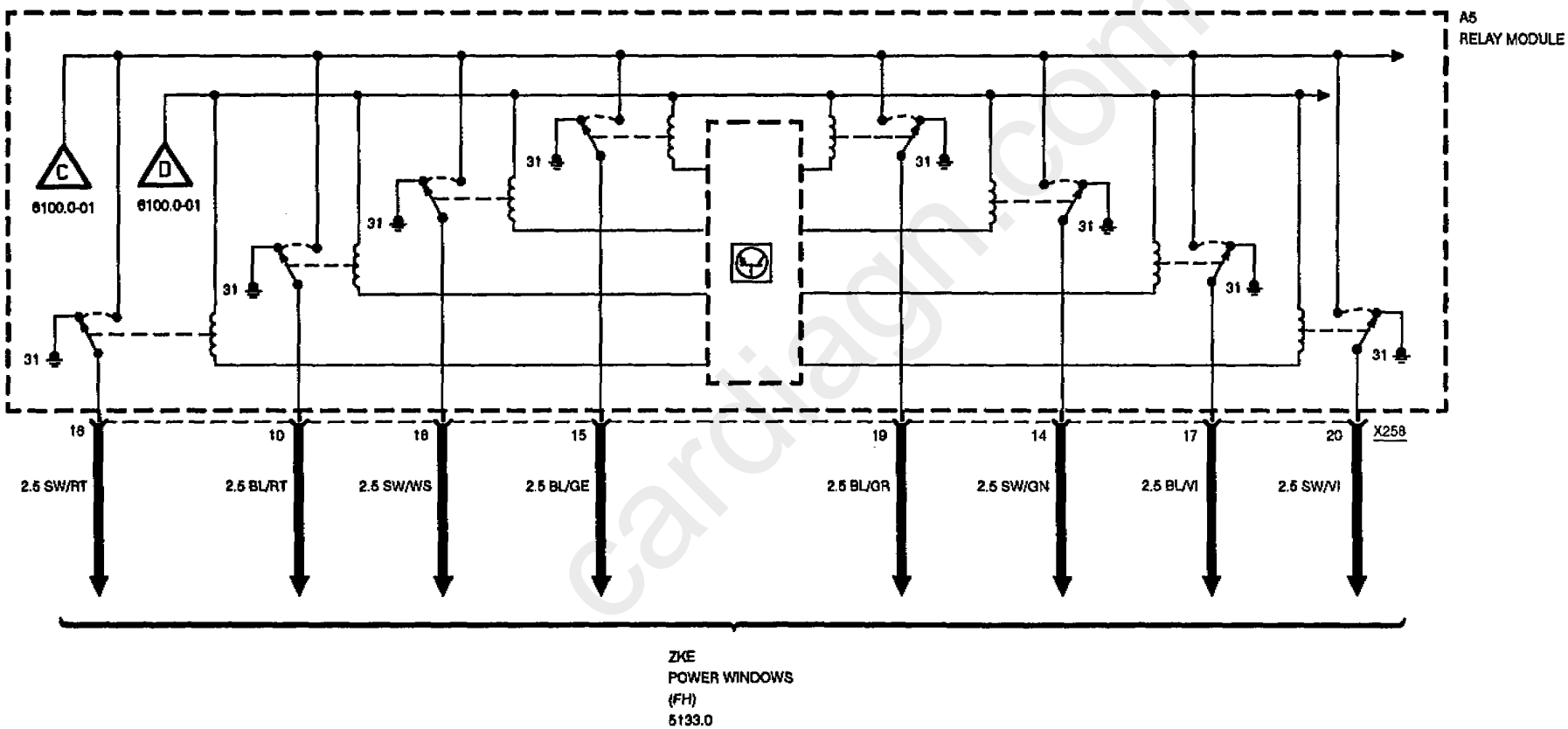
CENTRAL BODY ELECTRONICS (ZKE II)



cardiagn.com

CENTRAL BODY ELECTRONICS (ZKE II)

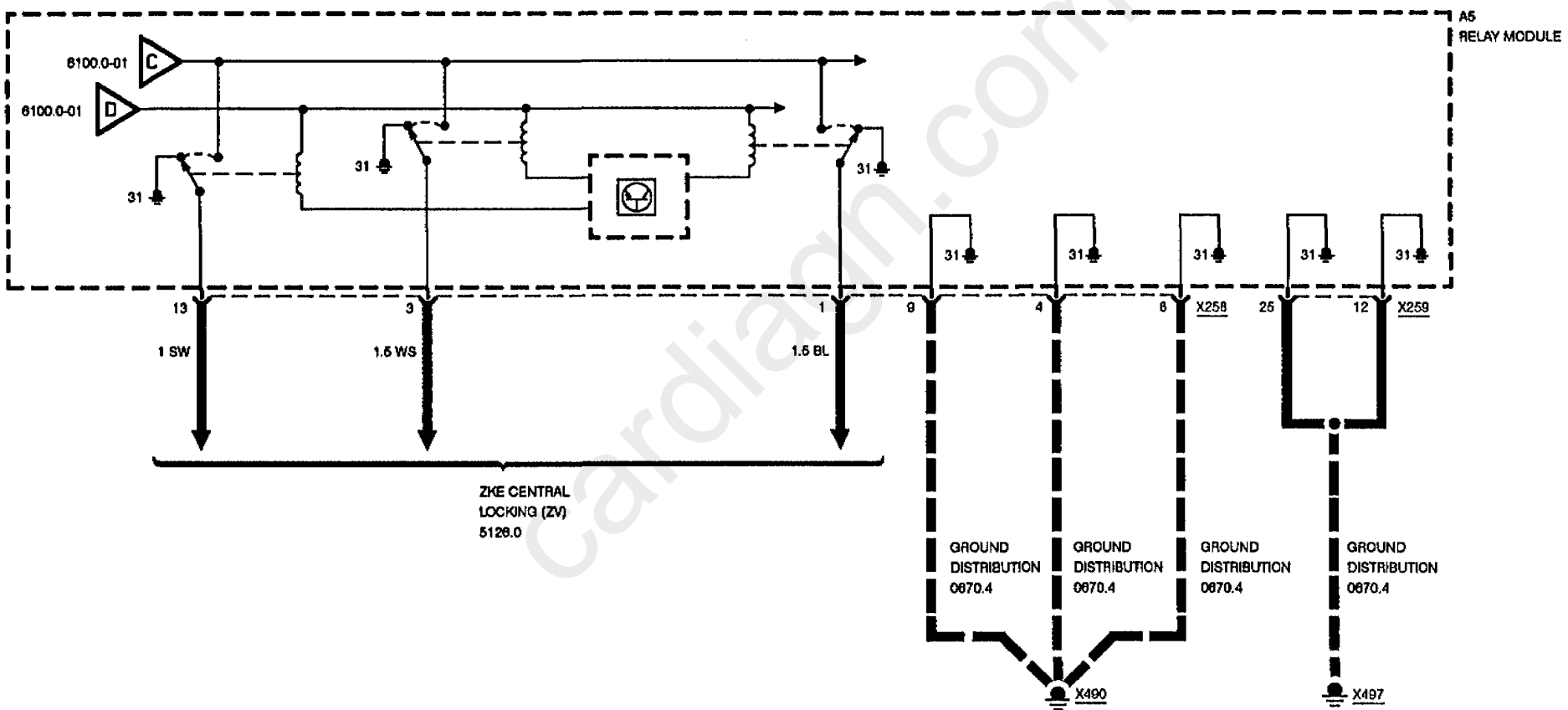
RELAY MODULE



cardiagn.com

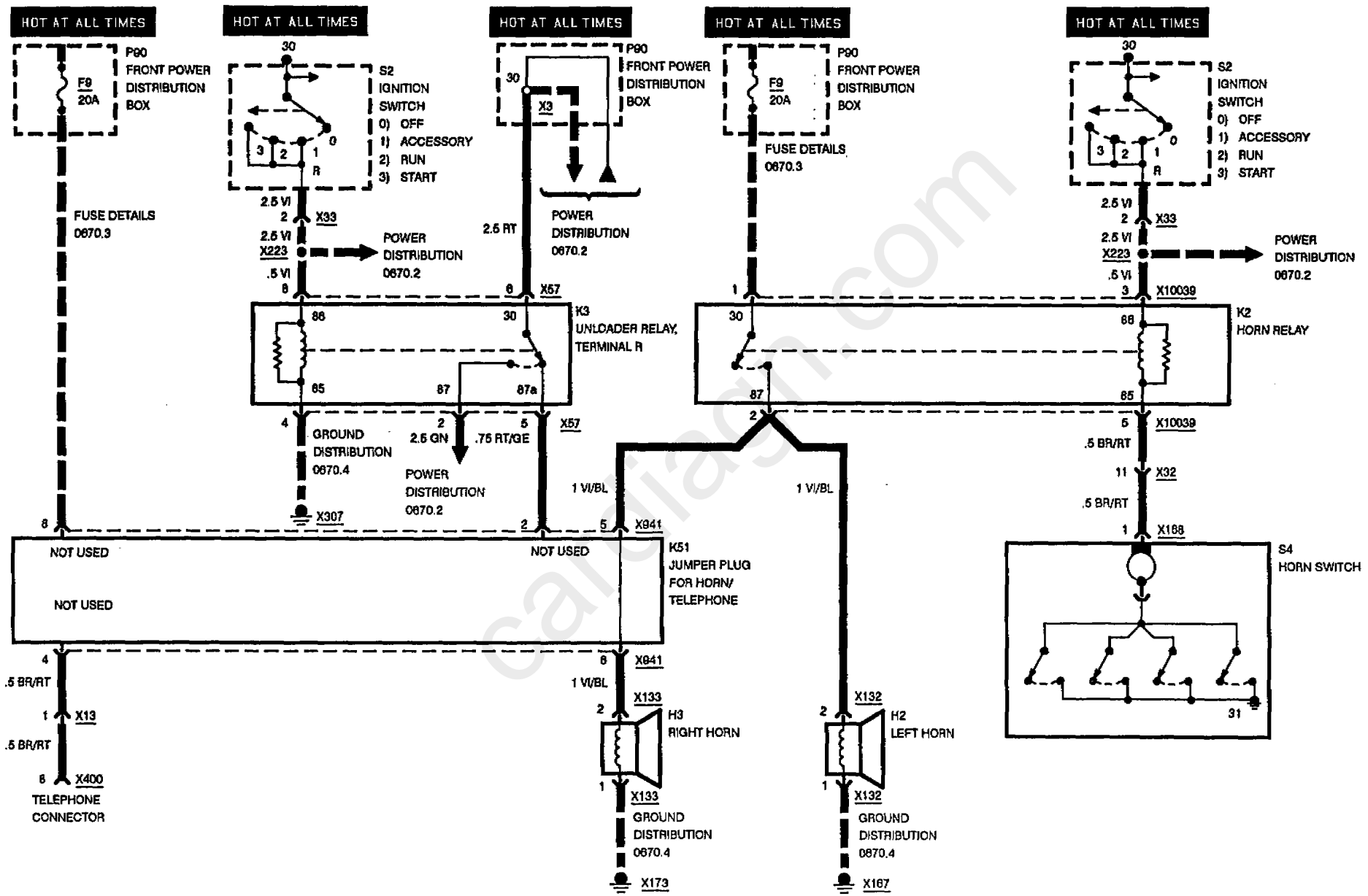
CENTRAL BODY ELECTRONICS (ZKE II)

RELAY MODULE



cardiagn.com

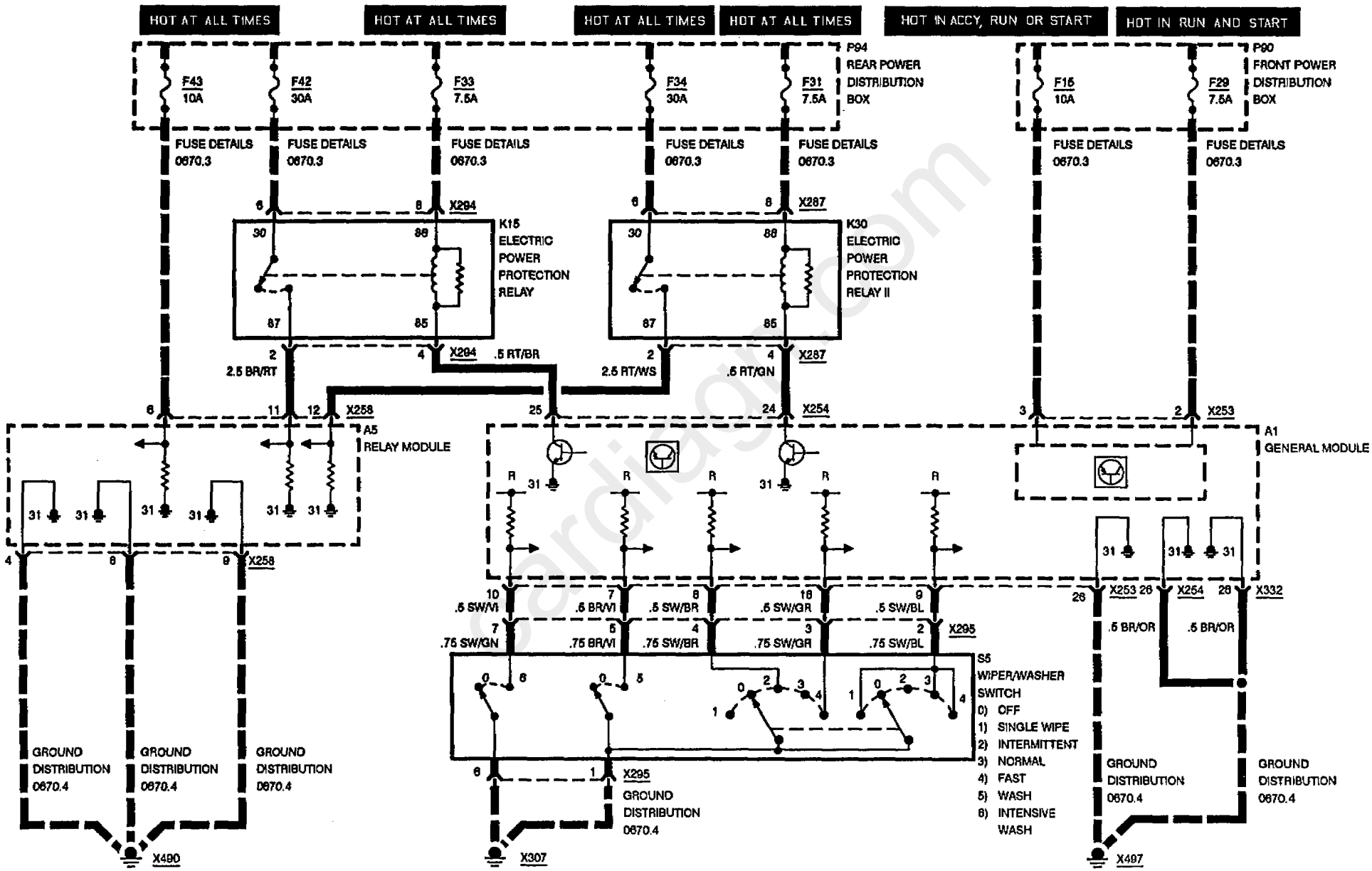
HORN



carlagh.com

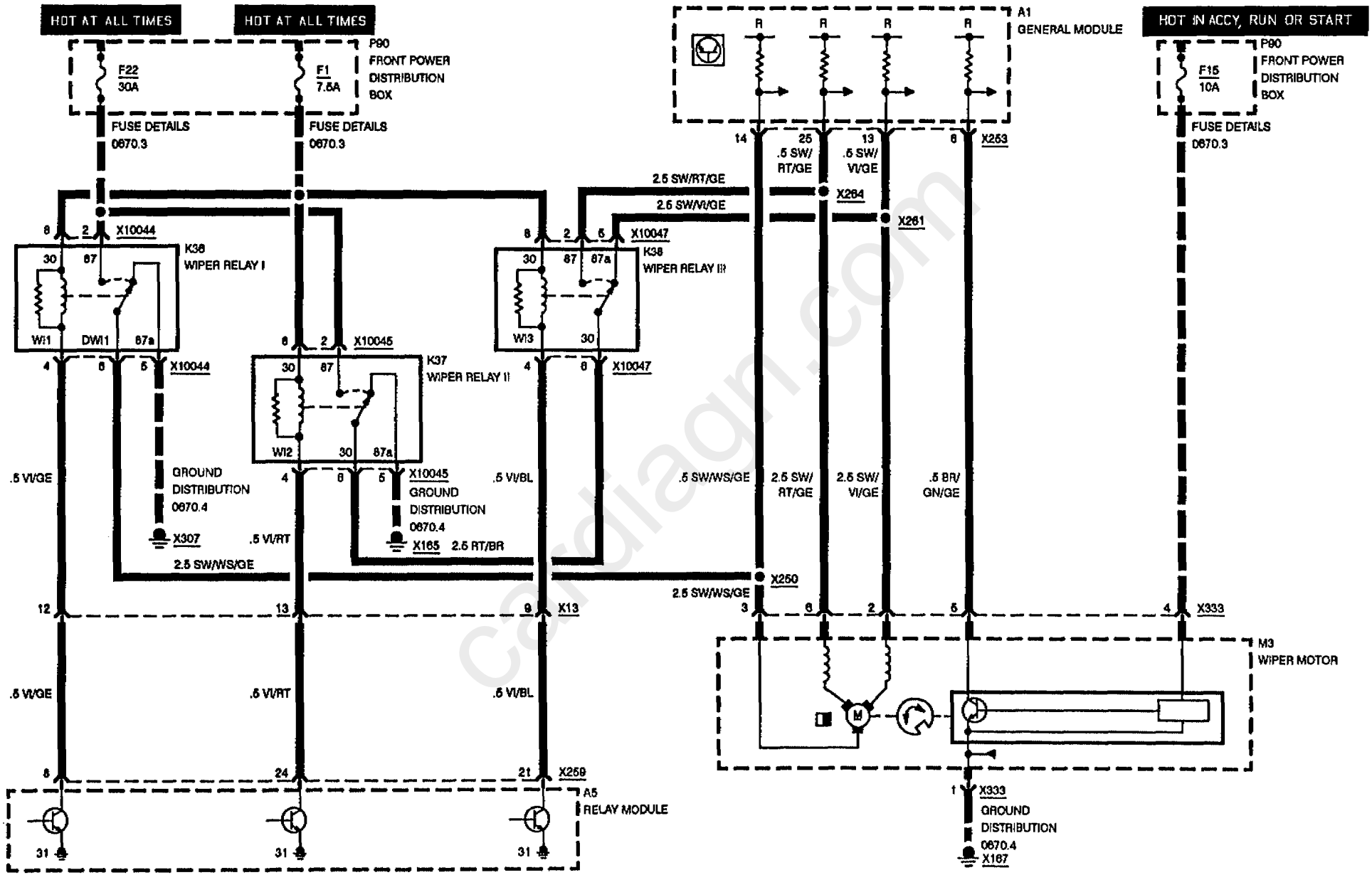
cardiagn.com

ZKE WIPER/WASHER CONTROL



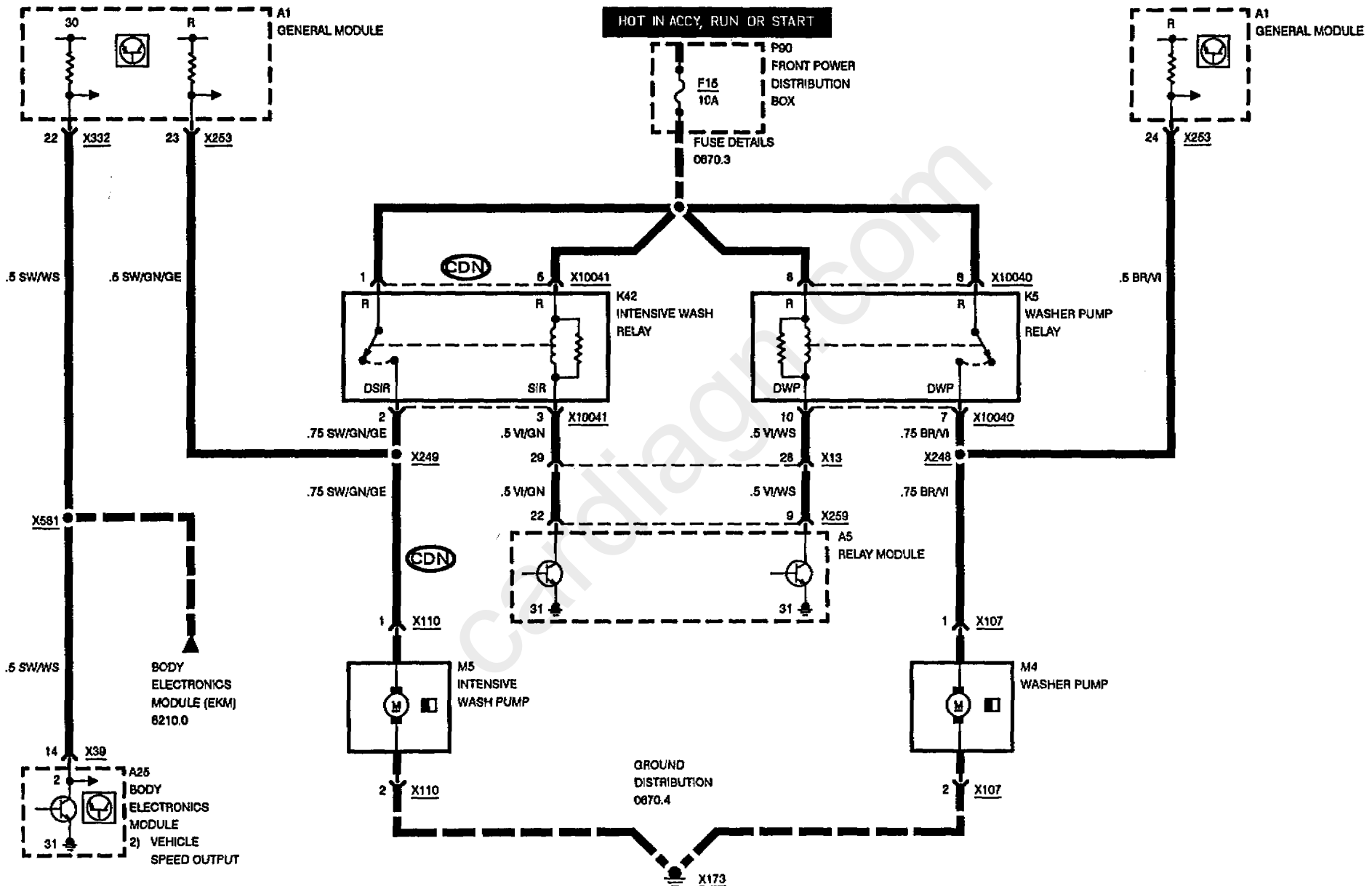
cardiagn.com

ZKE WIPER/WASHER CONTROL



cardiagn.com

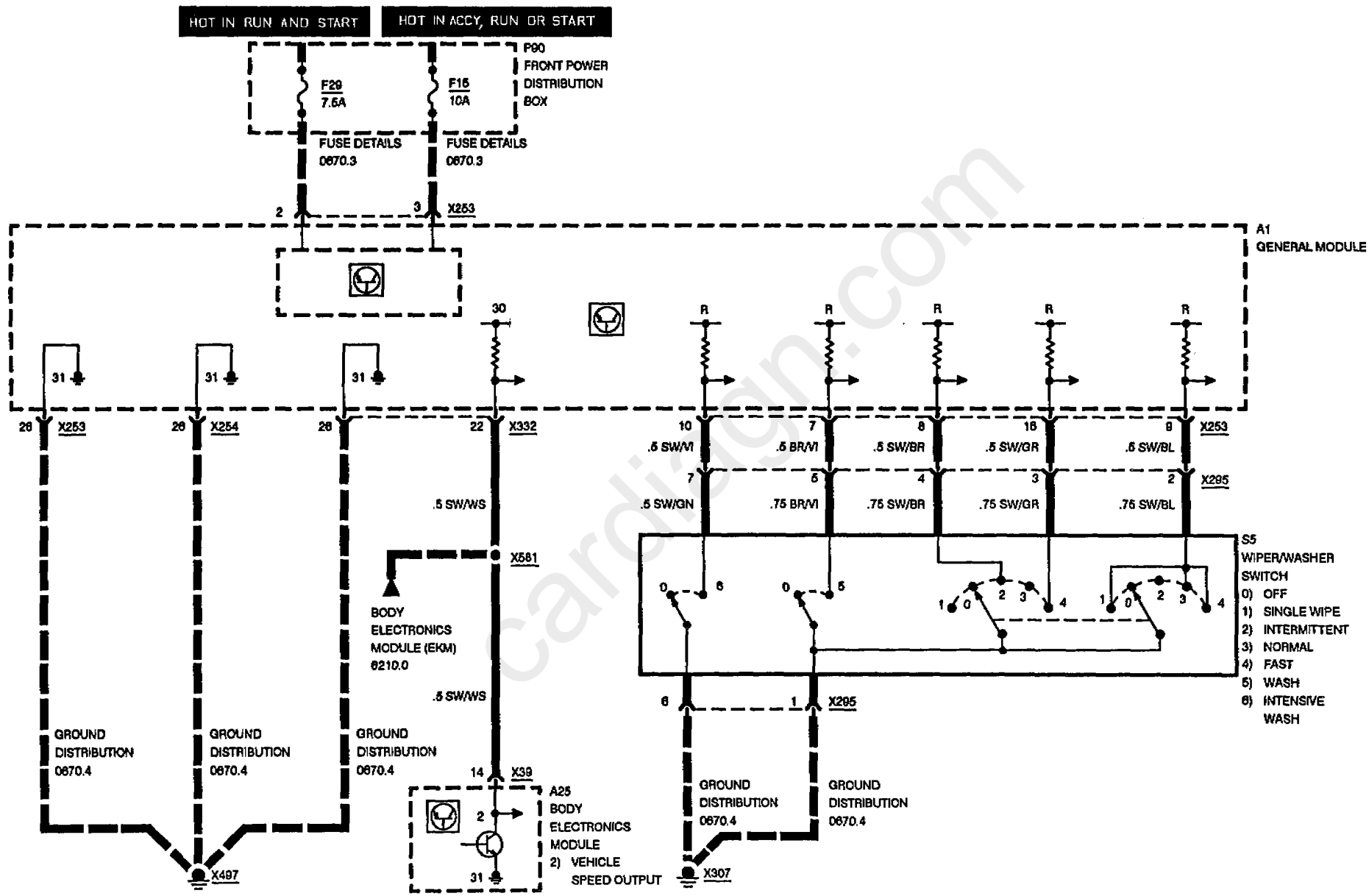
ZKE WIPER/WASHER CONTROL



cardiagn.com

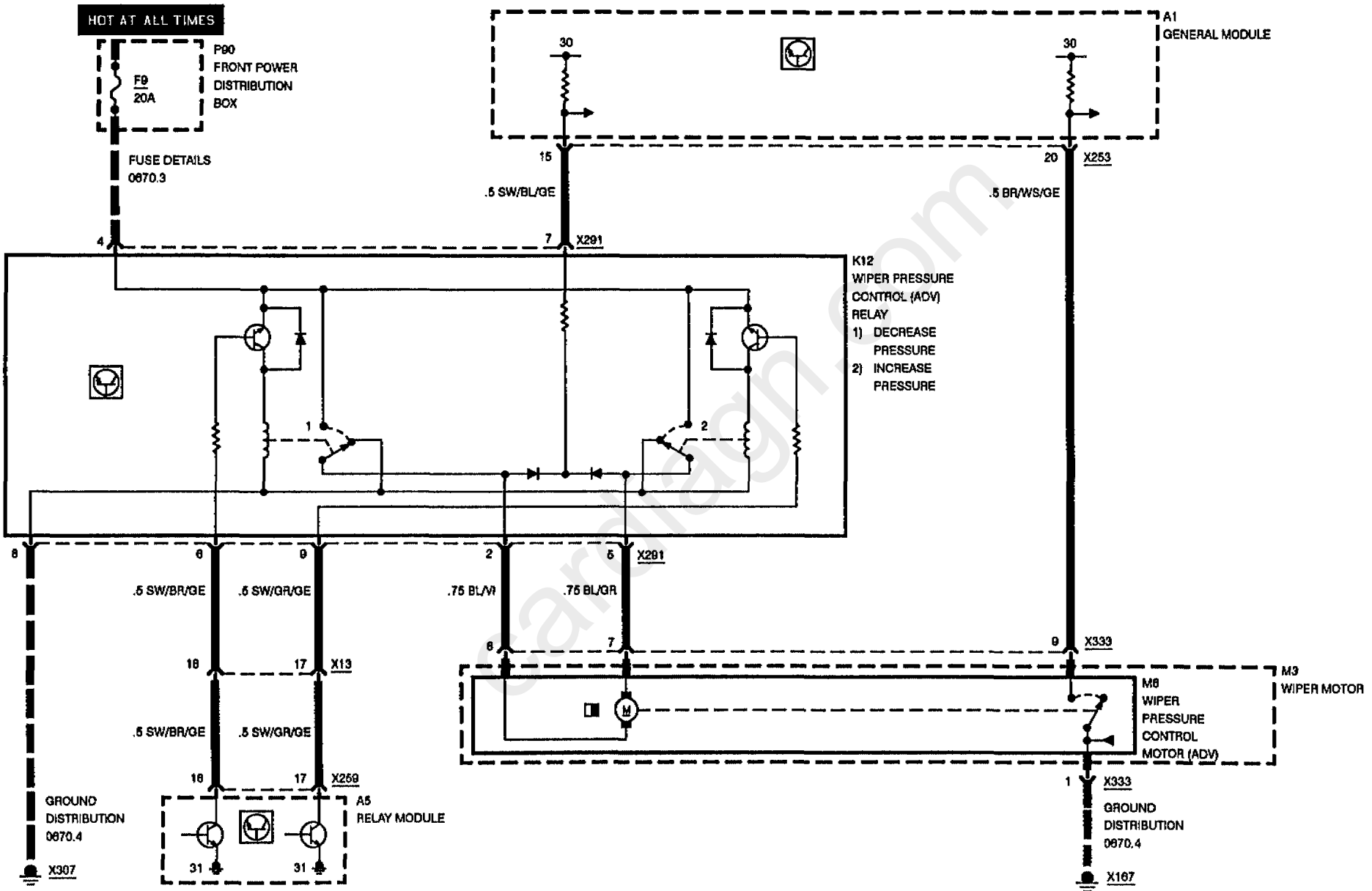
cardiagn.com

ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)

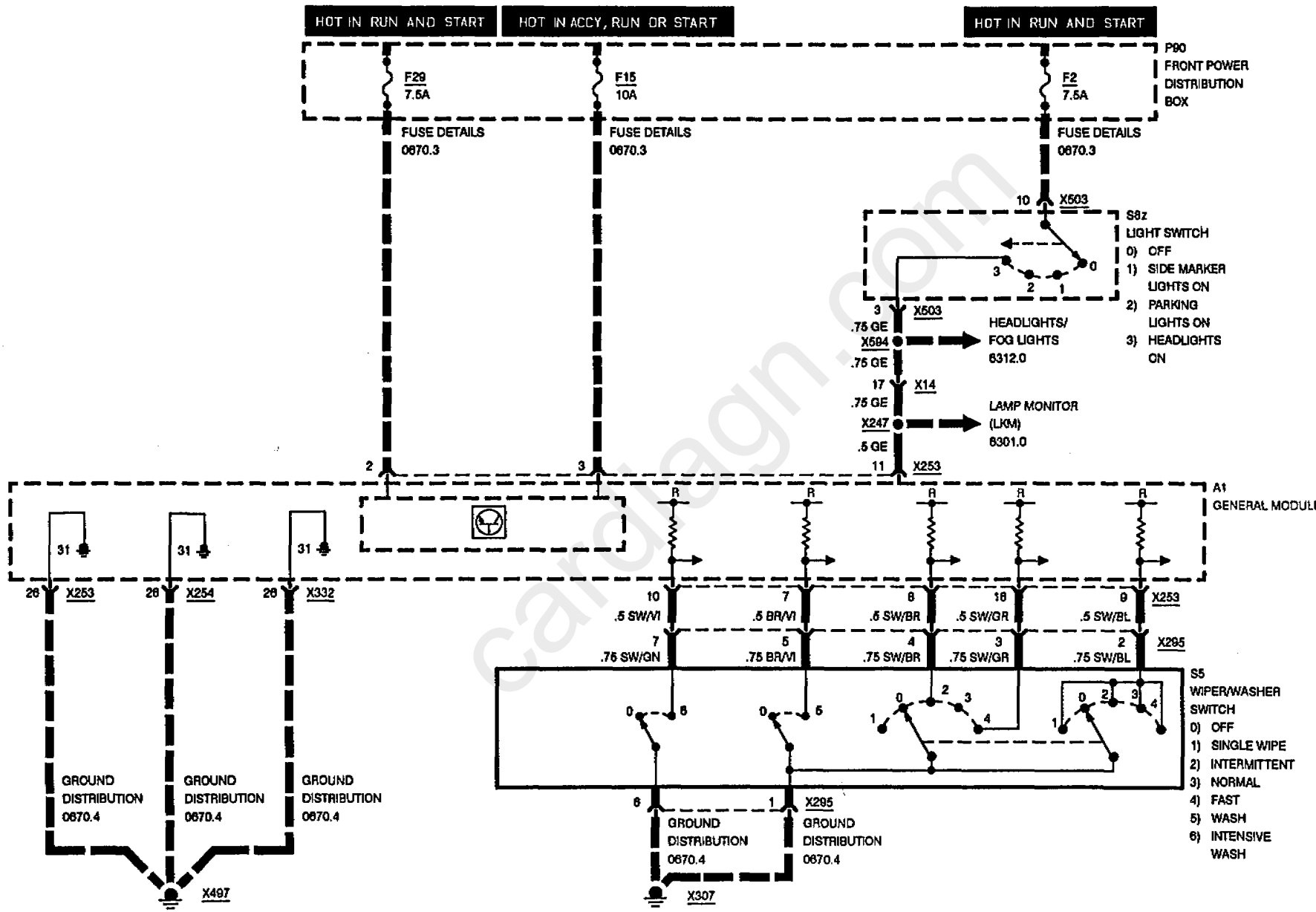


cardiagn.com

ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)

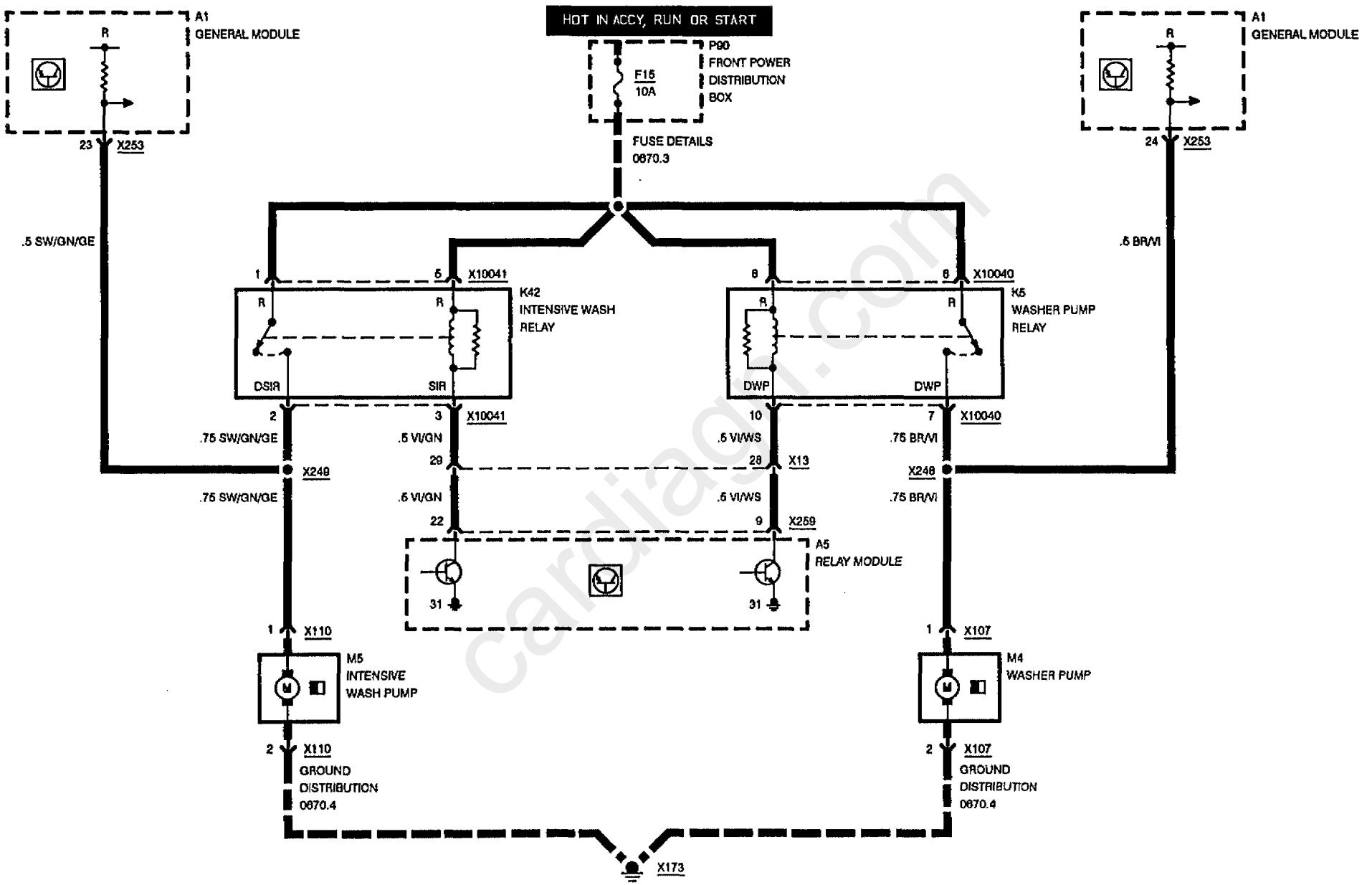


ZKE HEADLIGHT WASHER (SRA)



carlagn.com

ZKE HEADLIGHT WASHER (SRA)

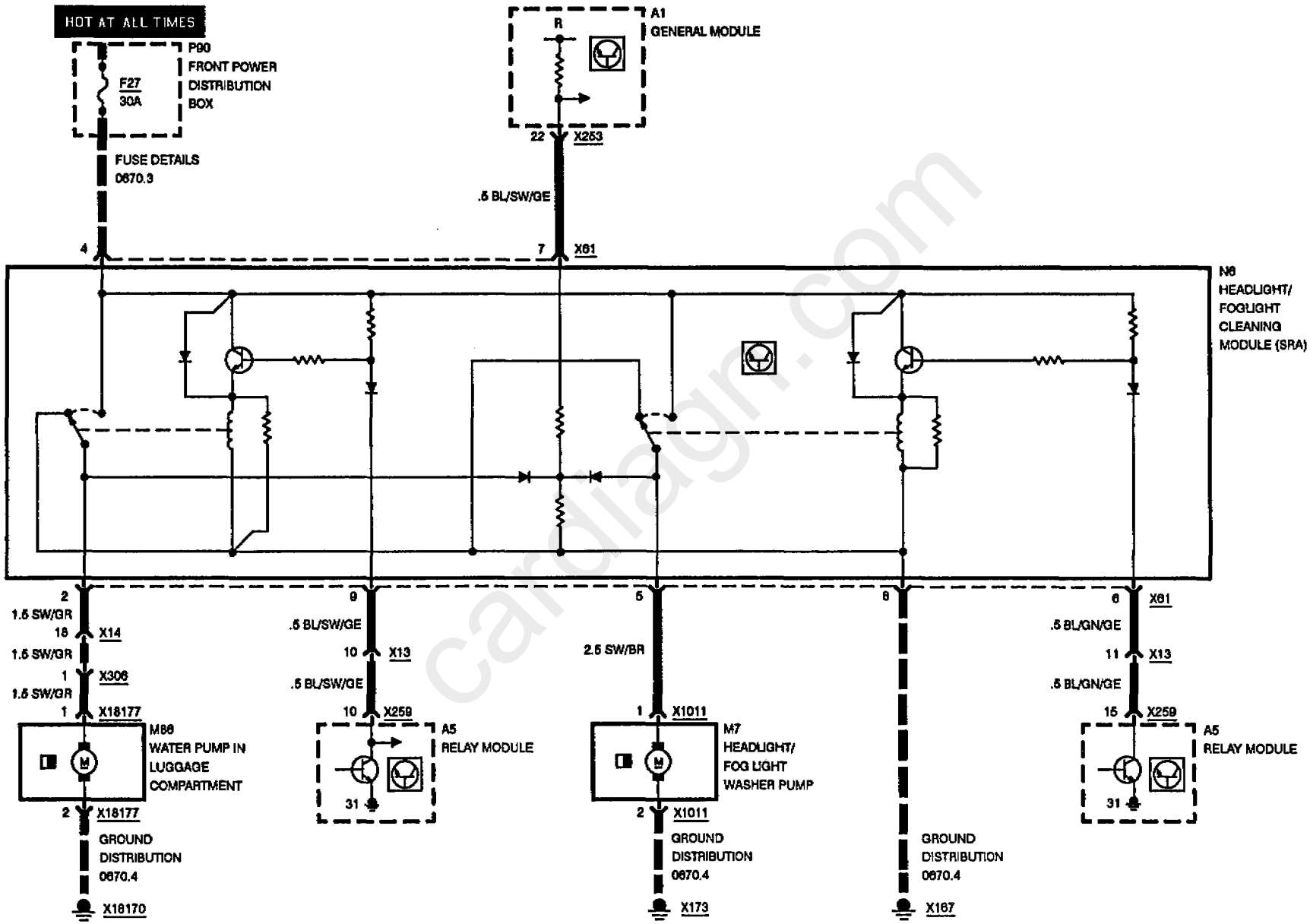


cardiagn.com

ZKE HEADLIGHT WASHER (SRA)

CDN

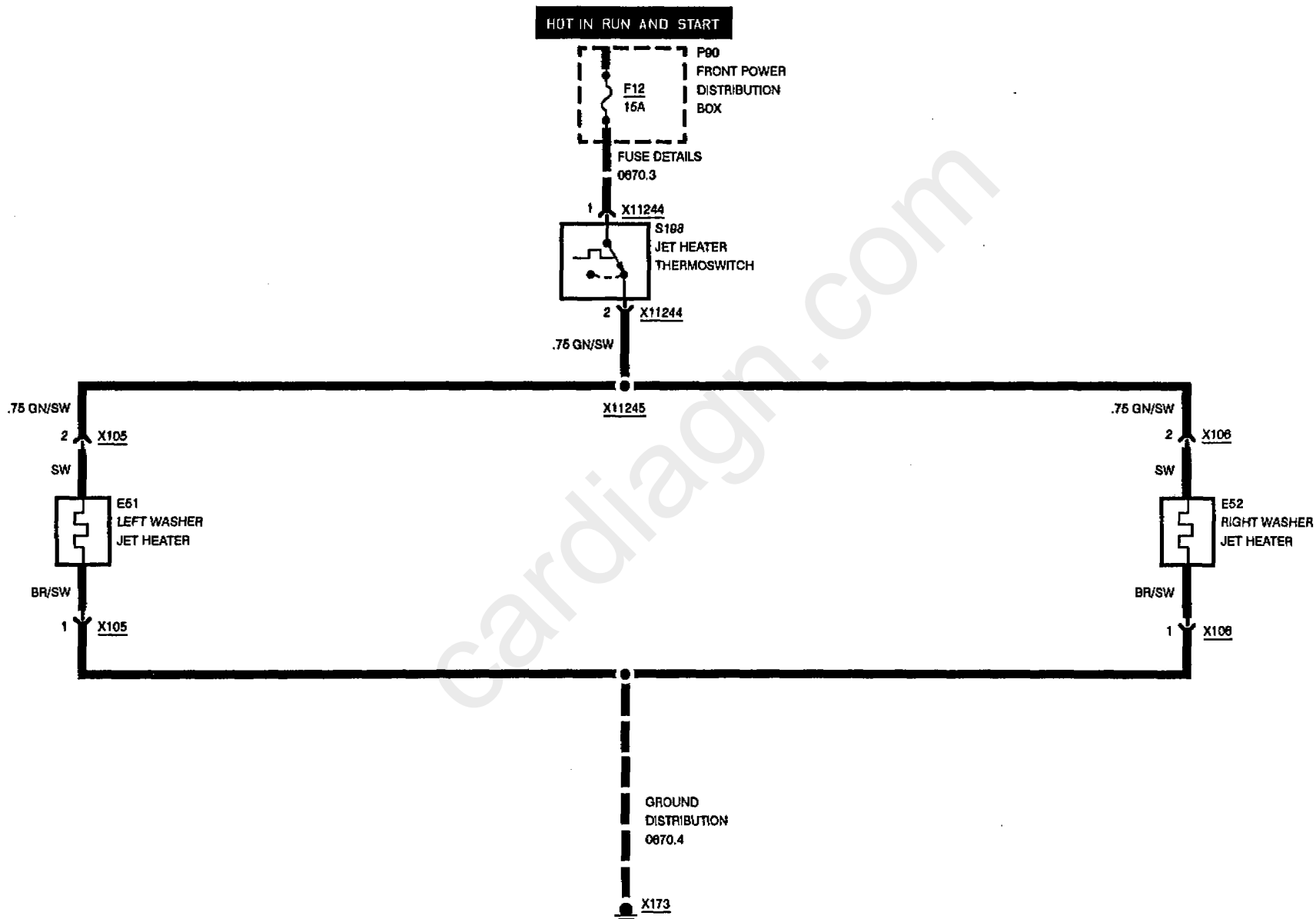
OUTPUT DETAILS



cardiagn.com

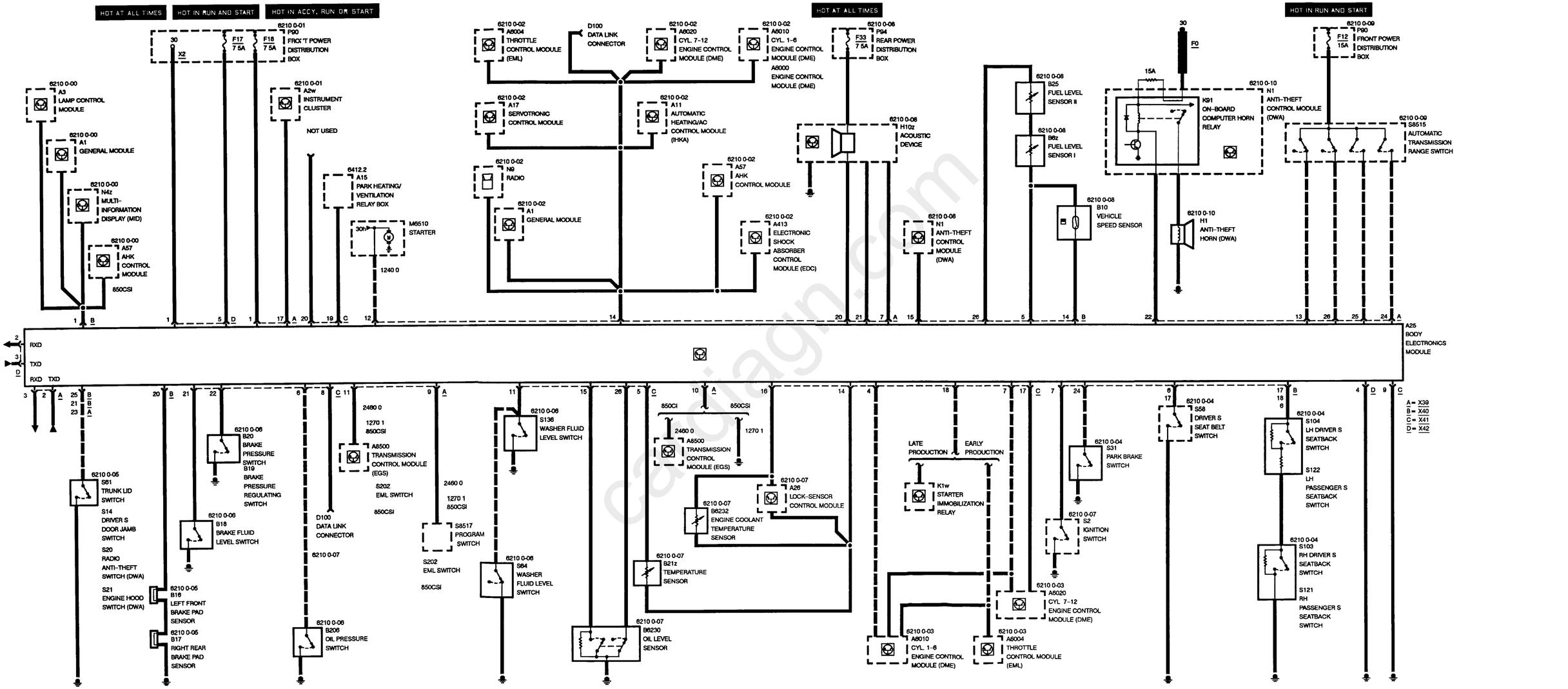
cardiagn.com

WINDSHIELD WASHER JET HEATERS

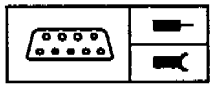


cardiagn.com

12/94 — 6210 0 — 1994
12/94 — 6210.0 — 1994



carsiagn.com



Pin Assignments

A=X39	26 pins, green
B=X40	26 pins, brown
C=X41	26 pins, blue
D=X42	5 pins, black

X39

Pin	Type	Description/Function	Connection
1	E	Voltage (terminal R)	Fuse
2	E/A	Diagnostic link (TxD)	TxD connection of various control units
3	E/A	Diagnostic link (RxD)	RxD connection of various control units
4		Not used	
5		Not used	
6		Not used	
7	A	Acoustic output 1 (hour reminder signal)	Acoustic device
8		Not used	
9	E	Transmission program	850Ci Program switch 850CSi EML - switch
10	E	850Ci Transmission defect (EGS)	Transmission control module (EGS)
	M	850CSi Ground	Ground point
11	E	Transmission program	850Ci Transmission control module (EGS) 850CSi EML - switch
12	E	Starter signal (30h)	Starter
13	E	Position switch L1	Automatic transmission range switch
14	A	Vehicle speed signal	Various control modules
15		Not used	
16		Not used	
17	E/A	Instrument cluster interface/data transfer to instrument cluster	Instrument cluster
18		Not used	
19		Not used	
20	A	Acoustic output 2 (outside temperature warning)	Acoustic device

E = Input, A = Output, M = Ground

cardiagn.com

Pin Assignments

Pin	Type	Description/Function	Connection
21	A	Acoustic output 3 (check control message)	Acoustic device
22	A	Trigger alarm at antitheft horn with drive-away protection active	Antitheft module
23		Radio anti-theft system	Radio contact
24	E	Position switch L 4	Automatic transmission range switch
25	E	Position switch L 3	Automatic transmission range switch
26	E	Position switch L 2	Automatic transmission range switch

X40

Pin	Type	Description/Function	Connection
1	E/A	I-bus (instrument bus)	I-bus users
2		Not used	
3		Not used	
4		Not used	
5	A	Sensor ground	Fuel level sensor and vehicle speed sensor
6	E	Seat belt buckle signal/Left backrest locked signal	Driver's seat belt switch/Driver's seatback switches
7	E	Ignition key status	Ignition switch
8		Not used	
9		Not used	
10		Not used	
11		Not used	
12		Not used	
13		Not used	
14	E	Vehicle speed signal	Vehicle speed sensor
15	A	Speed signal for DWA	DWA - Control module
16		Not used	
17	E	Left backrest locked signal/Seat belt buckle signal	Driver's seatback switches/Driver's seat belt switch
18	E	Right backrest locked signal	Passenger's seatback switches
19		Not used	

E = Input, A = Output, M = Ground

cardiagn.com

Pin Assignments

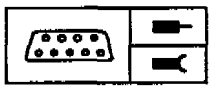
Pin	Type	Description/Function	Connection
20	E	Brake pad wear indicator	Brake pad sensors
21	E	Driver's door status	Driver's door jamb switch
22		Not used	
23		Not used	
24	E	Park brake status	Park brake switch
25	E	Trunk lid status	Trunk lid switch
26	E	Fuel level	Fuel level sensors

X41

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4	E	Injection signal 1 (ti)	Cyl. 1 - 6 engine control module (DME)
5	E	Outside temperature	Temperature sensor
6	E	Engine oil pressure	Oil pressure switch
7	E	Engine speed (rpm) signal (tD)	Cyl. 1 - 6 engine control module (DME)
8	E	SIA reset	Data link connector Pin 7
9	M	Ground	Ground point
10		Not used	
11	E	Washer fluid level	Washer fluid level switches
12		Not used	
13		Not used	
14	A	Sensor ground	Temperature sensor for coolant and outside temperature
15	E	Dynamic engine oil level	Oil level sensor
16	E	Coolant temperature	Coolant temperature sensor
17	E	Injection signal 2 (ti)	Cyl. 7 - 12 engine control module (DME)
18	A	Starter blocking	Engine control modules (DME)
19		Park ventilation	Park heating/ventilation relay box
20		Not used	

E = Input, A = Output, M = Ground

cardiagn.com



Pin Assignments

Pin	Type	Description/Function	Connection
21	E	Brake fluid level	Brake fluid level switch
22	E	Brake pressure	Brake pressure switches
23		Not used	
24		Not used	
25		Not used	
26	E	Static engine oil level	Oil level sensor

X42

Pin	Type	Description/Function	Connection
1	E	Voltage supply (terminal 30)	Battery
2	E/A	RxD diagnostic data line	Data link connector
3	E/A	TxD diagnostic data line	Data link connector
4	E	Ground	Ground point
5	E	Voltage (terminal 15)	Fuse

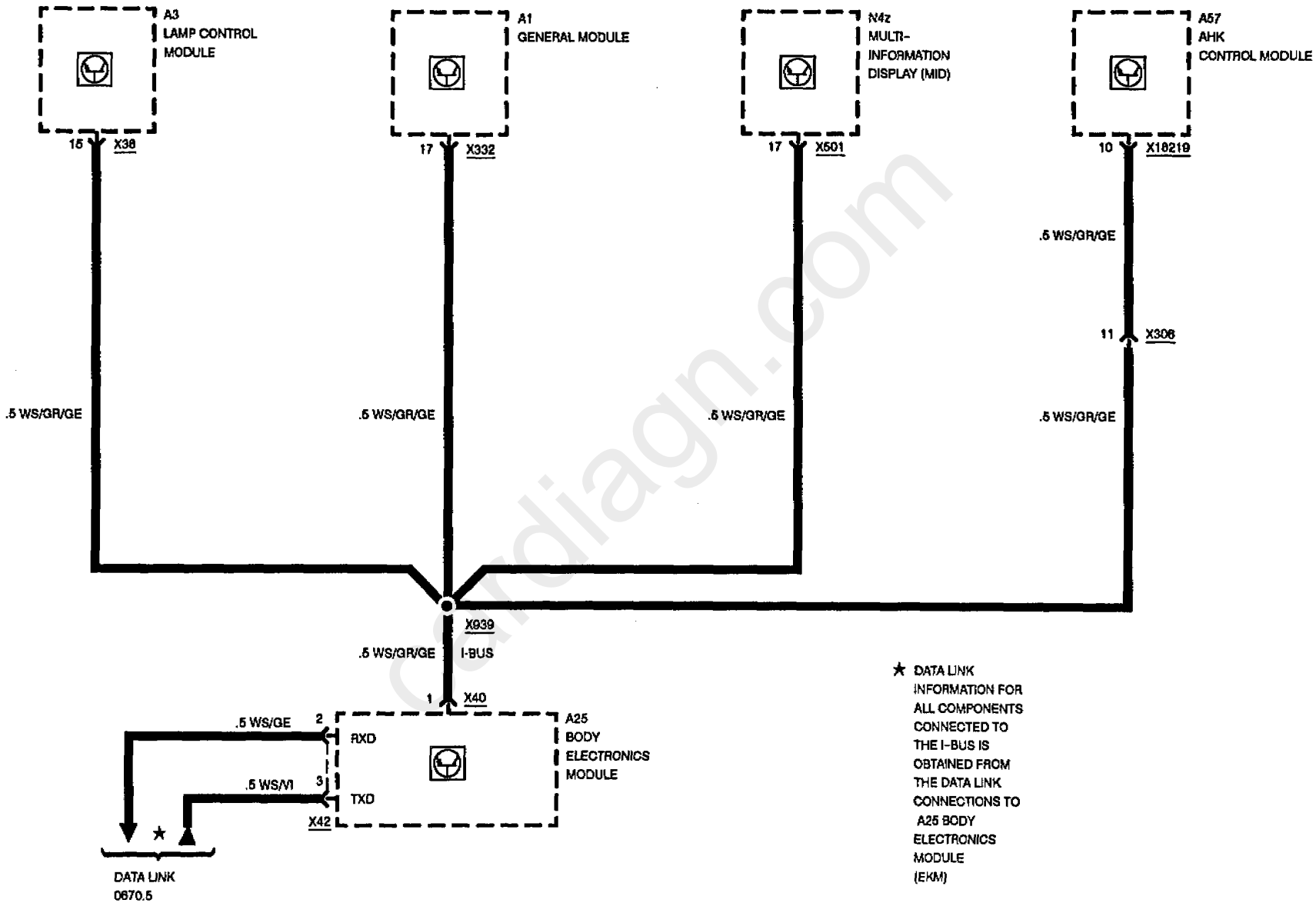
cardiagn.com

E = Input, A = Output, M = Ground

cardiagn.com

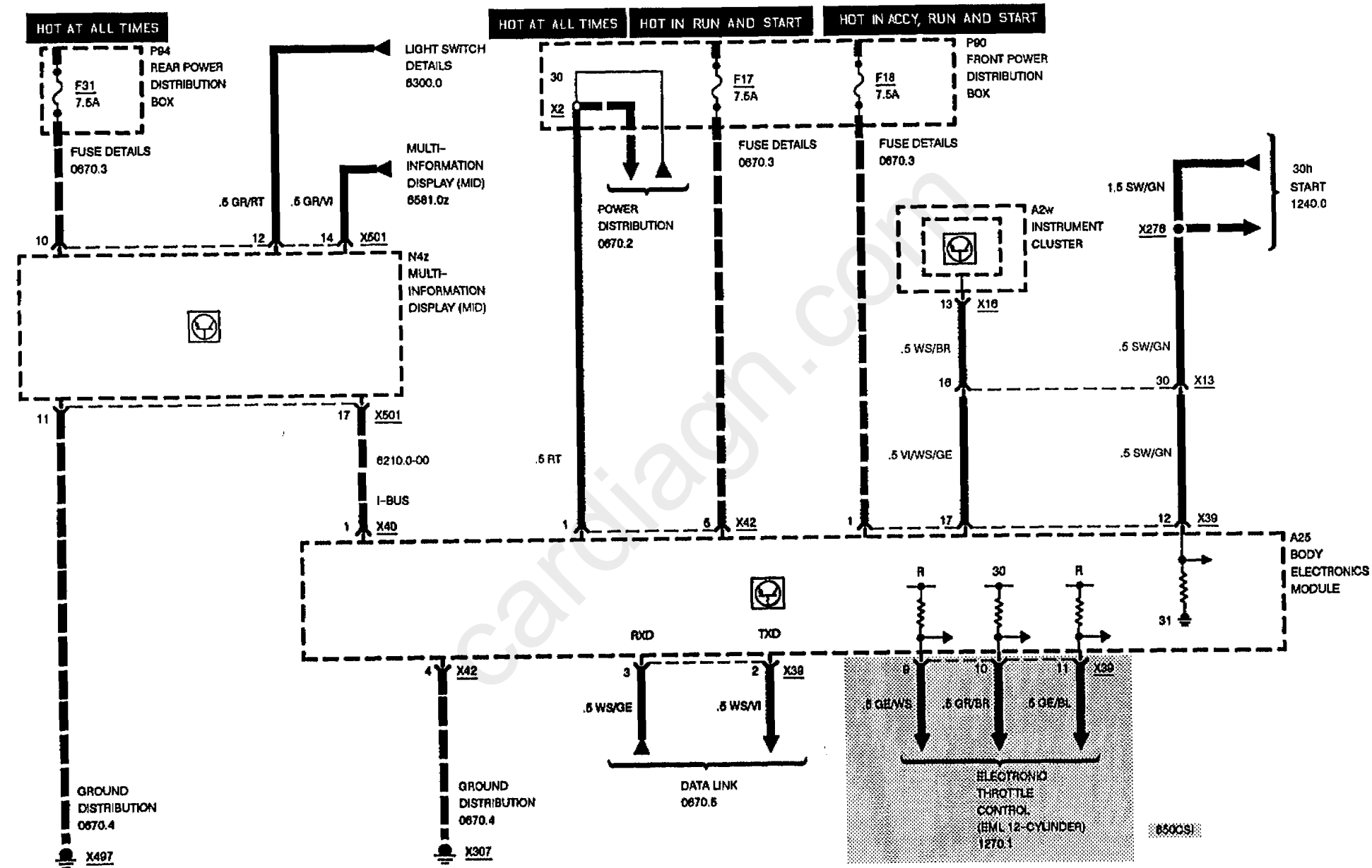
BODY ELECTRONICS MODULE (EKM)

INSTRUMENTATION BUS (I-BUS)



cardiagn.com

BODY ELECTRONICS MODULE (EKM)

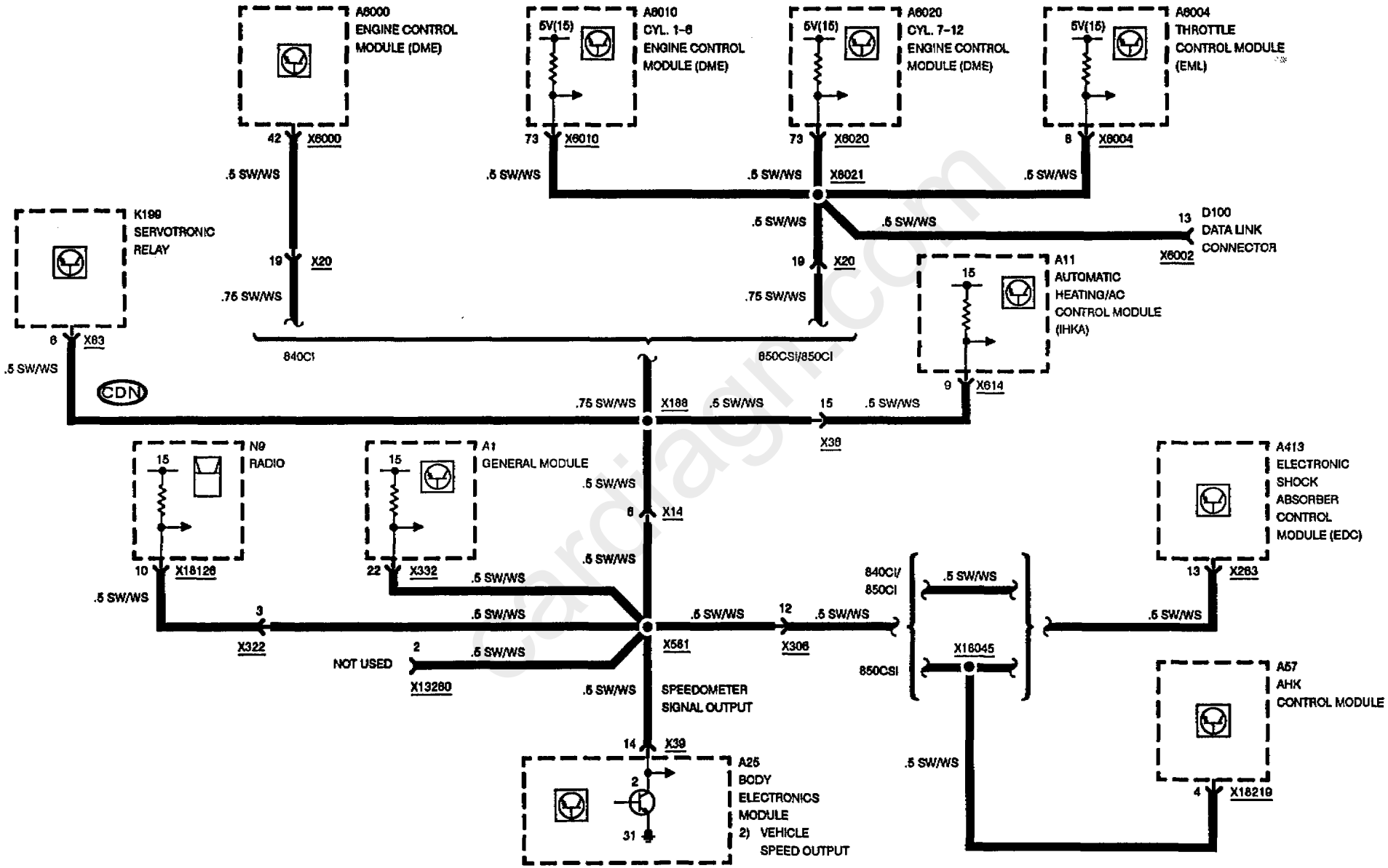


cardiagn.com

BMW 8

BODY ELECTRONICS MODULE (EKM)

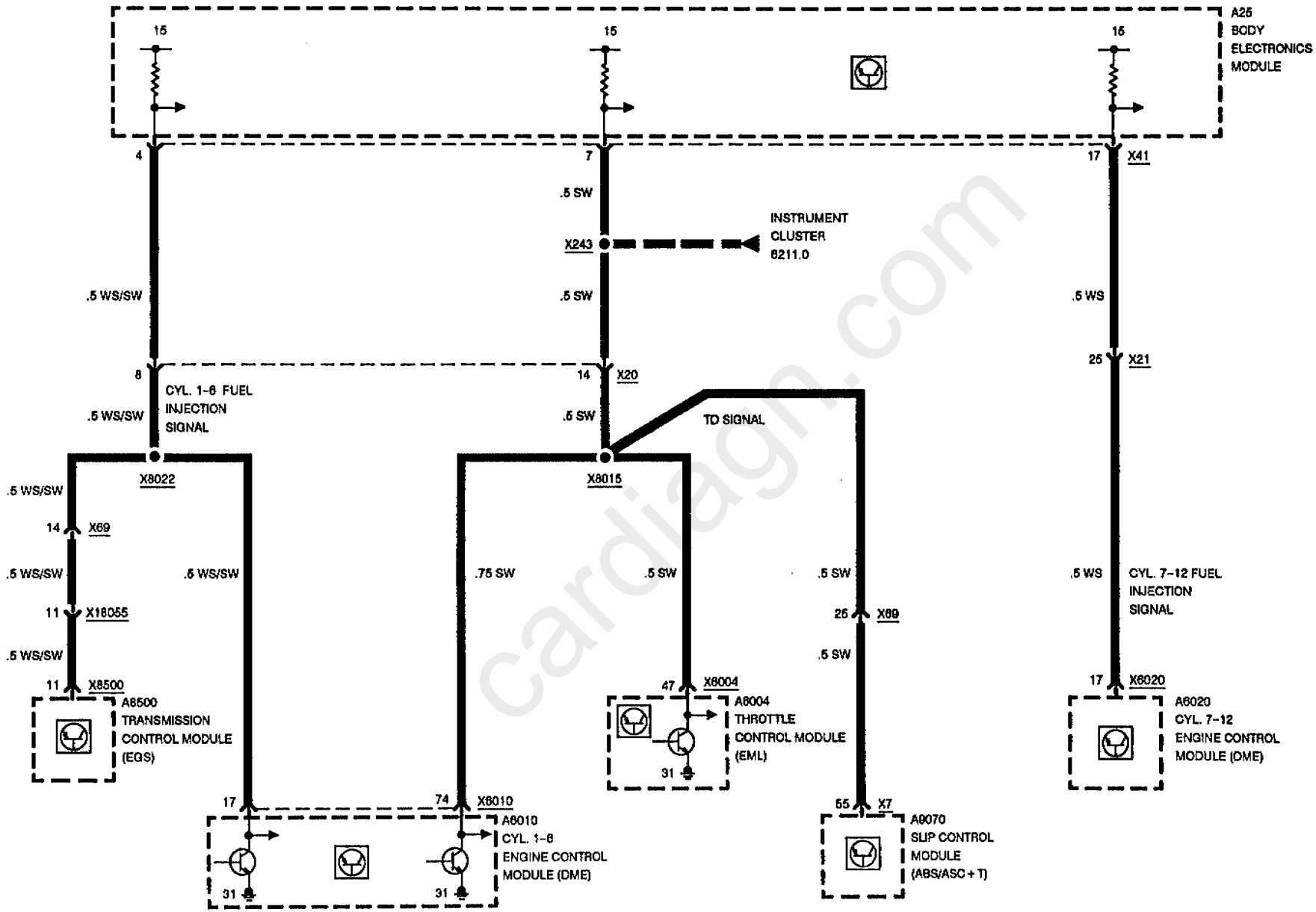
SIGNAL-OUTPUT SPEEDOMETER



cardiagn.com

BODY ELECTRONICS MODULE (EKM)

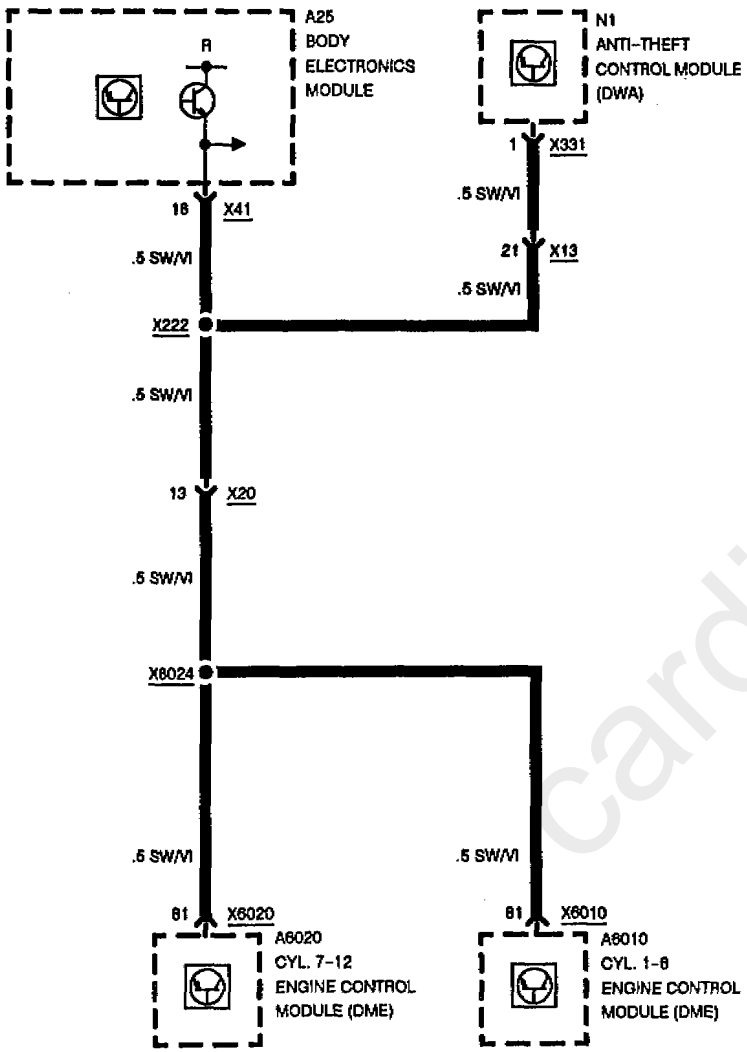
850CSi, 850Ci



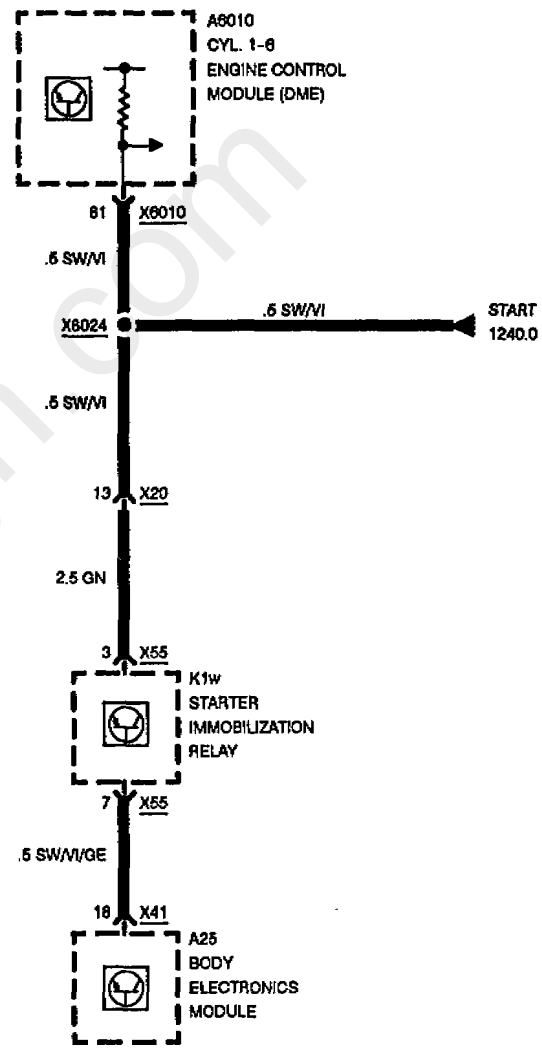
cardiagn.com

BODY ELECTRONICS MODULE (EKM)

EARLY PRODUCTION



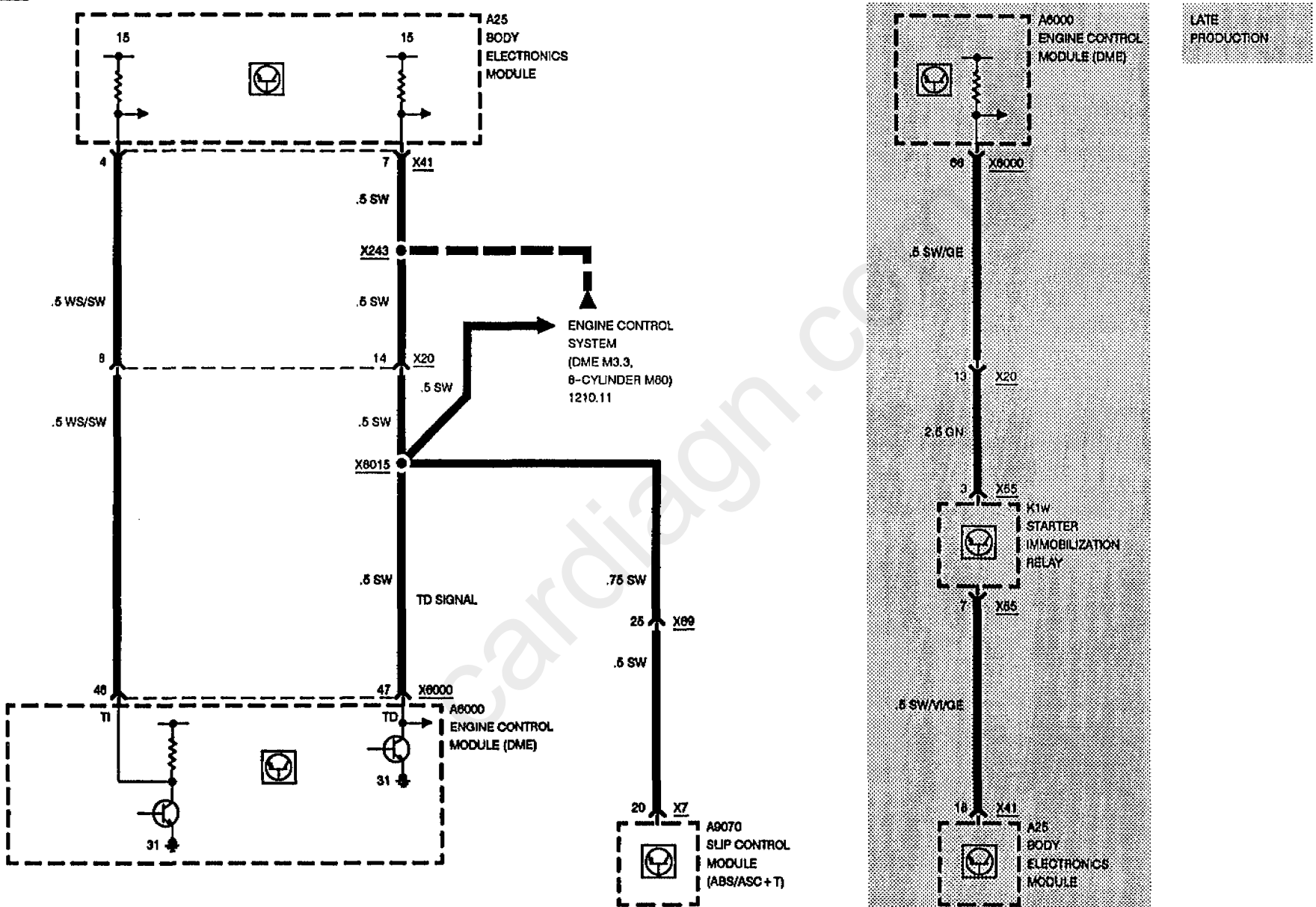
LATE PRODUCTION



cardiagn.com

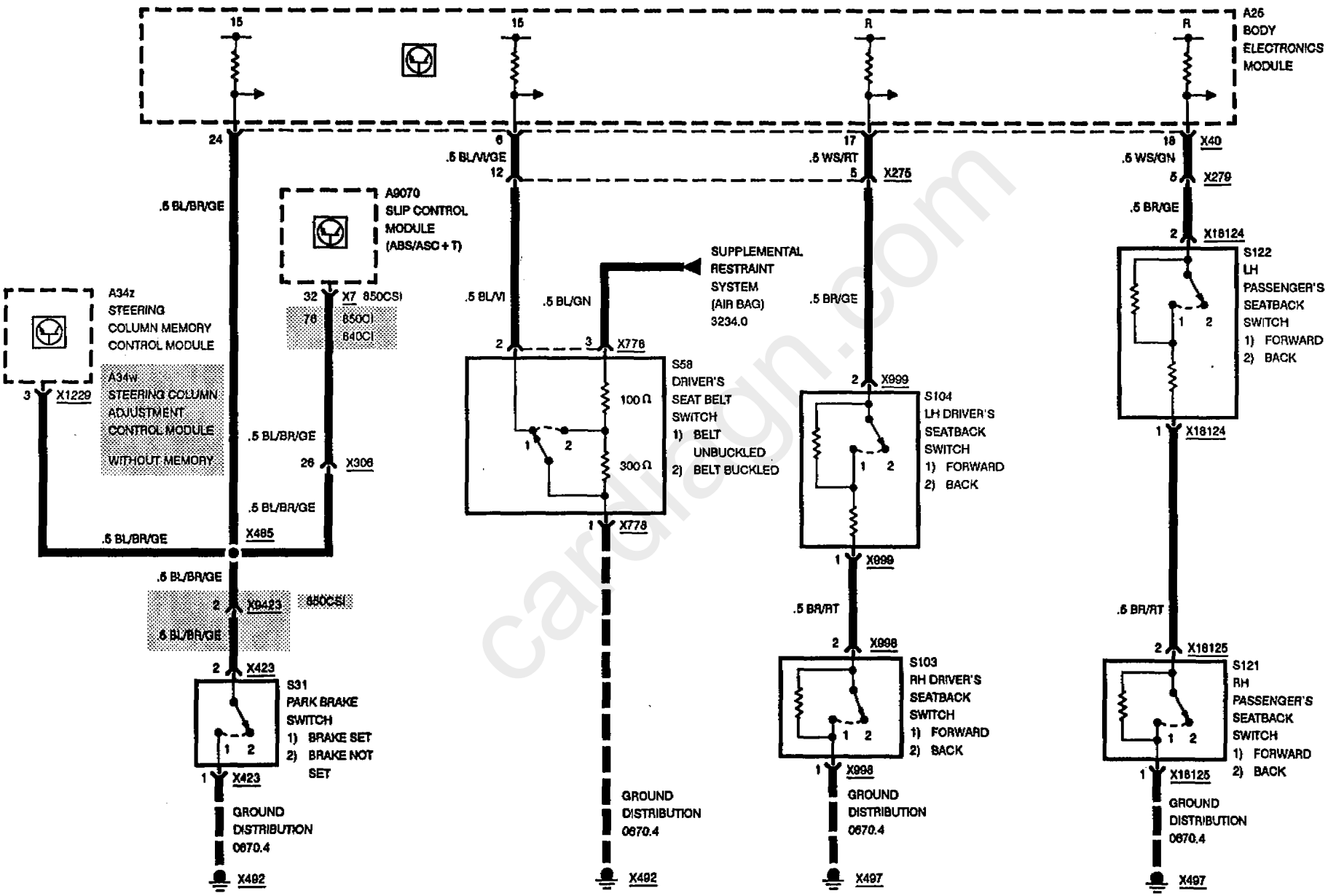
BODY ELECTRONICS MODULE (EKM)

840Ci



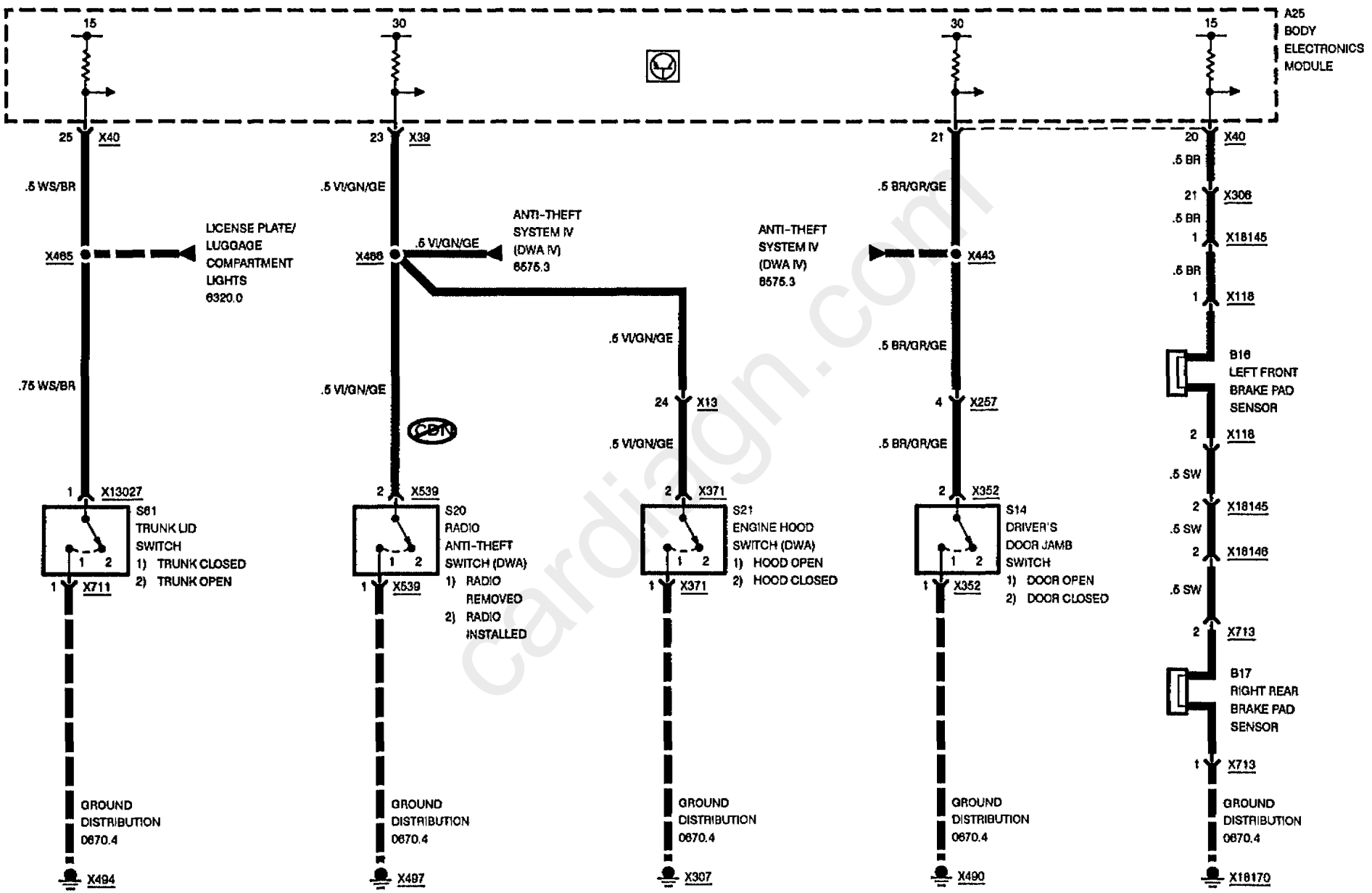
cardiagn.com

BODY ELECTRONICS MODULE (EKM)



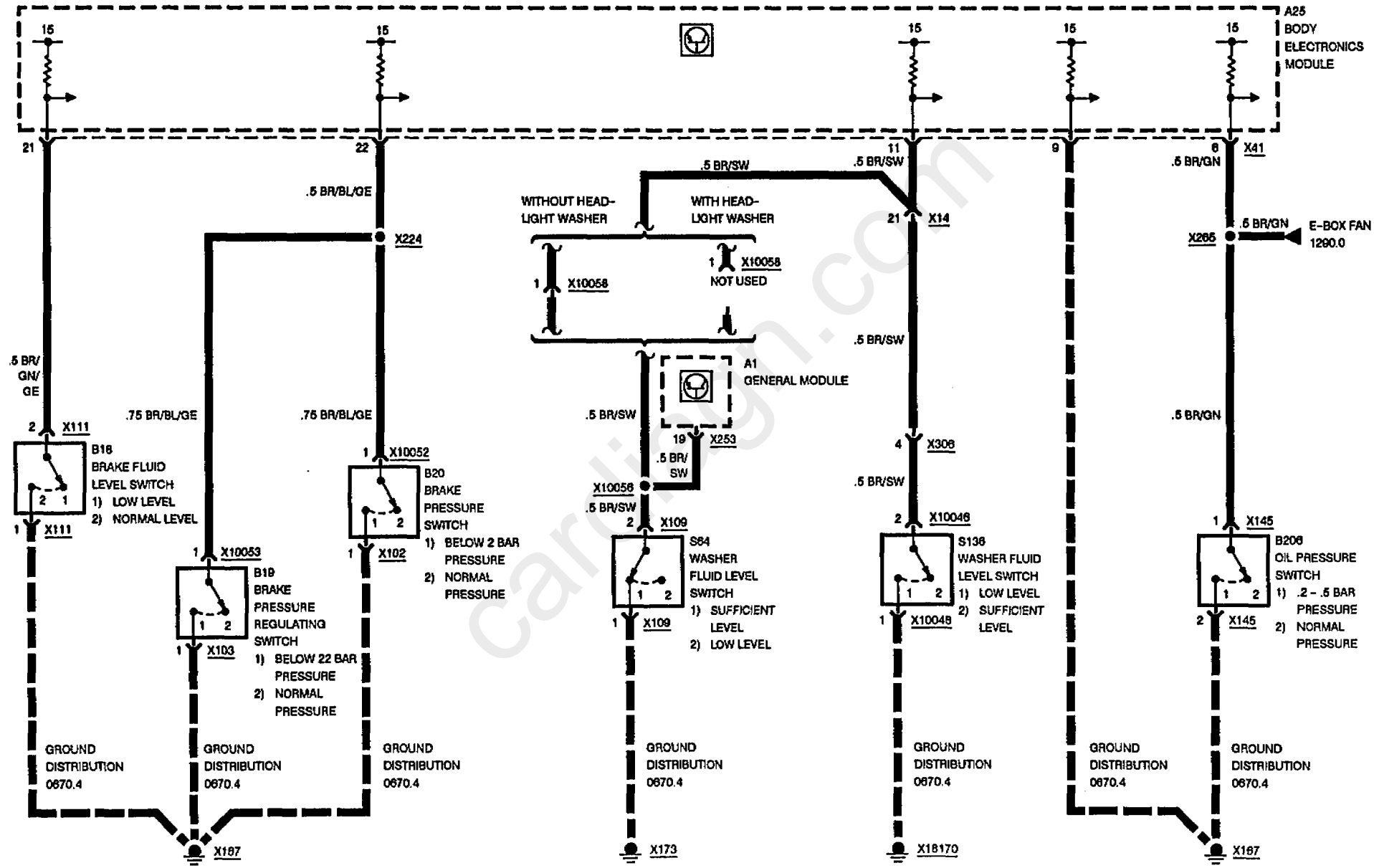
cardiagn.com

BODY ELECTRONICS MODULE (EKM)



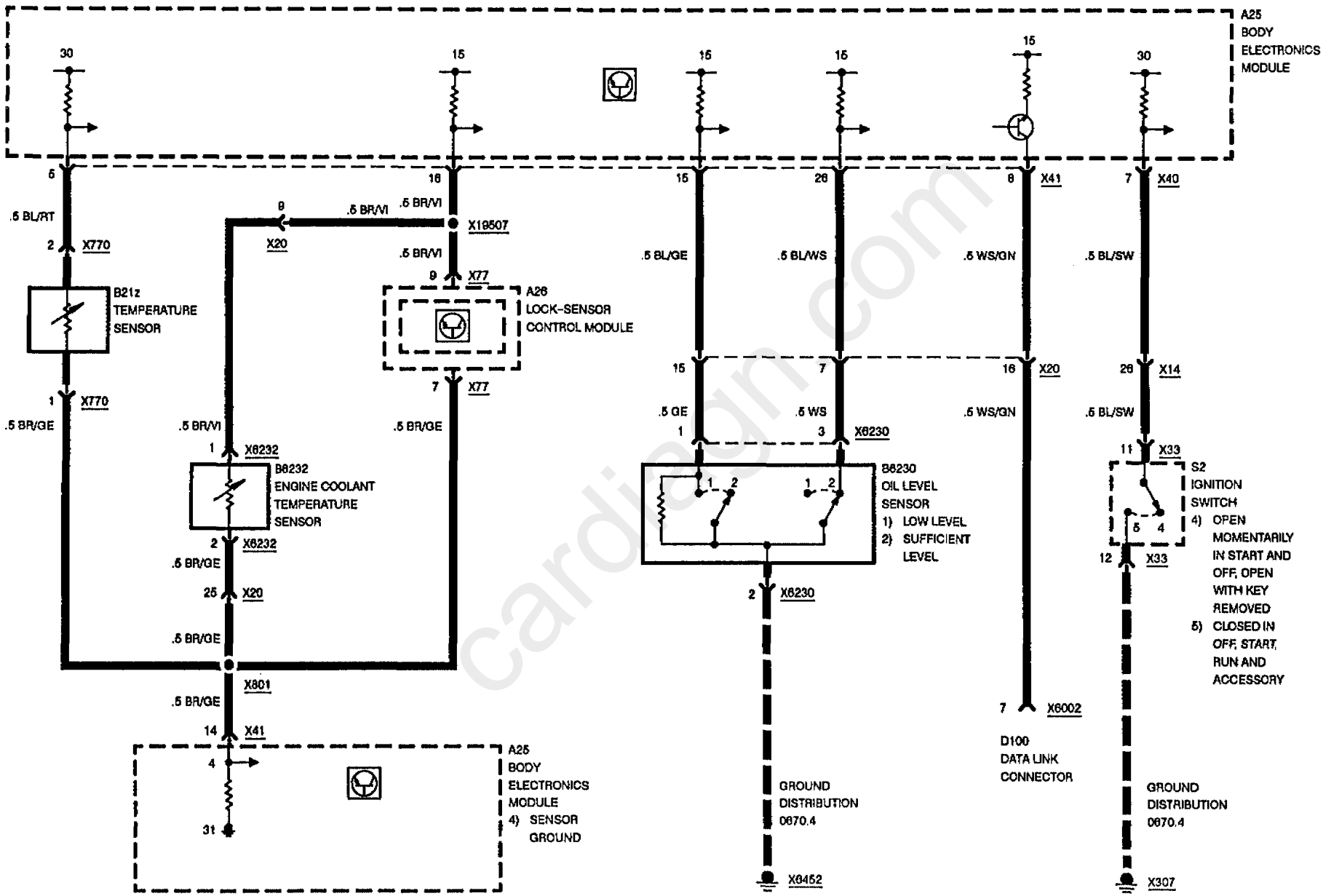
cardiagn.com

BODY ELECTRONICS MODULE (EKM)



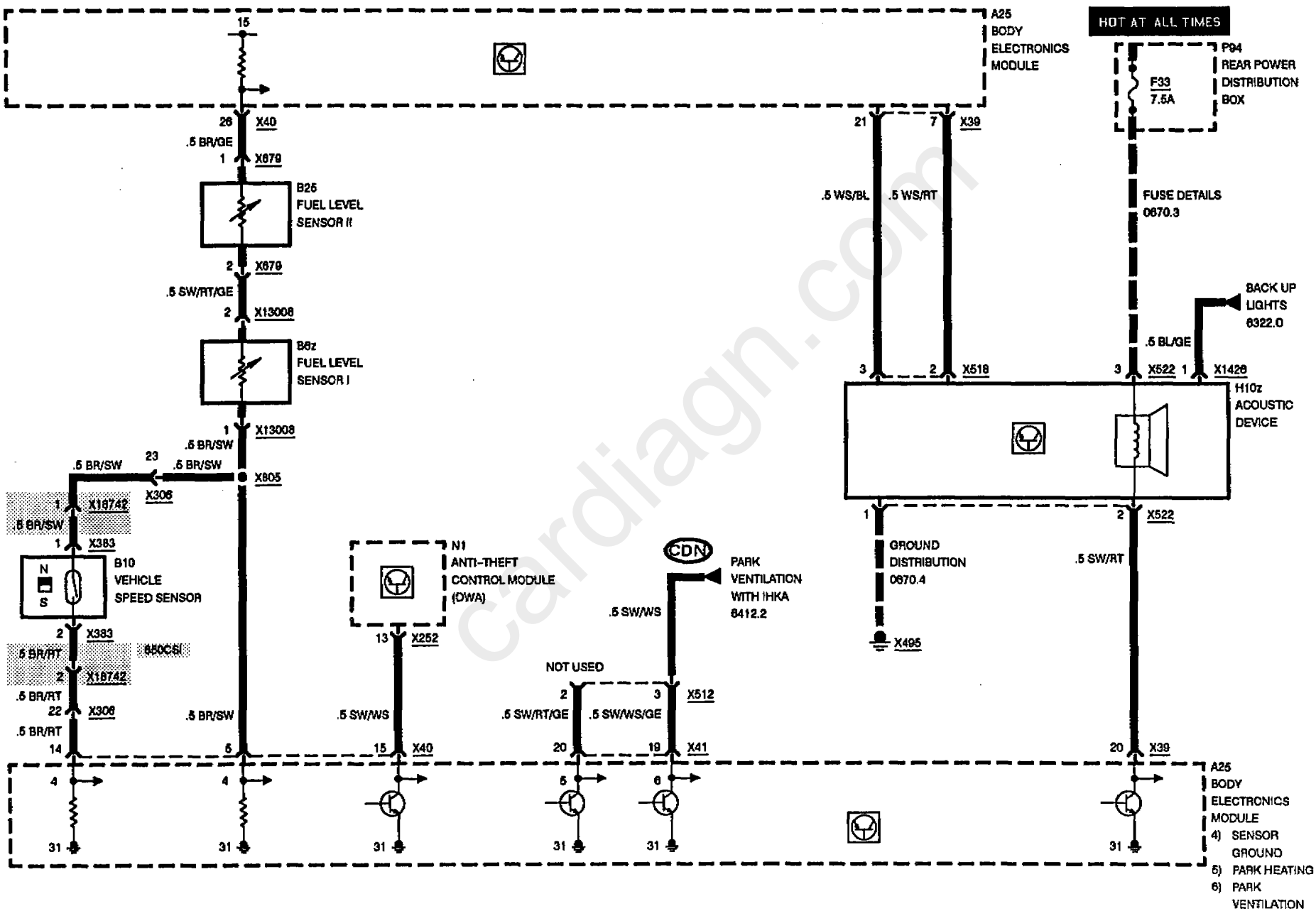
cardiagn.com

BODY ELECTRONICS MODULE (EKM)



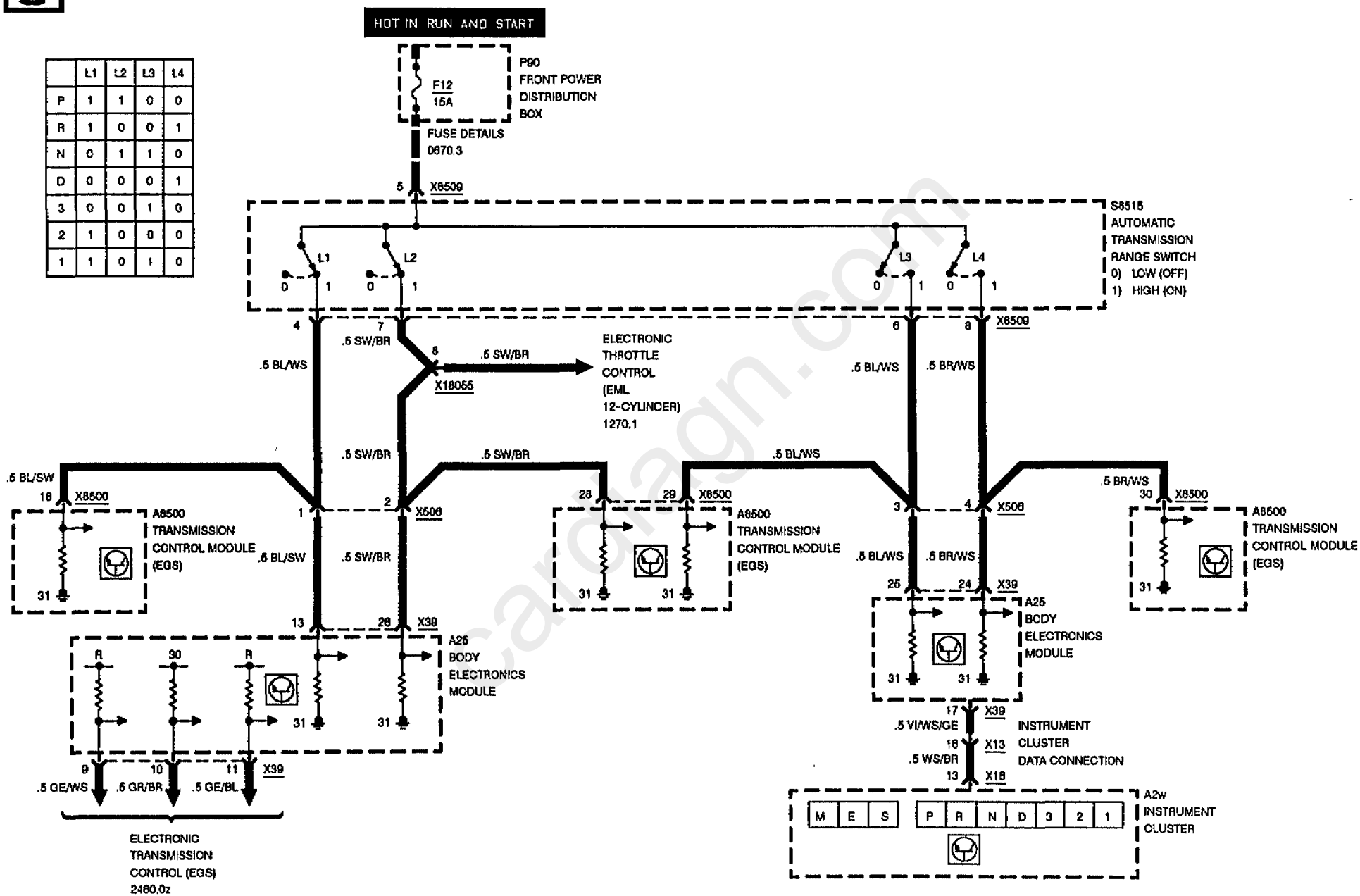
cardiagn.com

BMW 8 — BODY ELECTRONICS MODULE (EKM)



cardiagn.com

BODY ELECTRONICS MODULE (EKM)



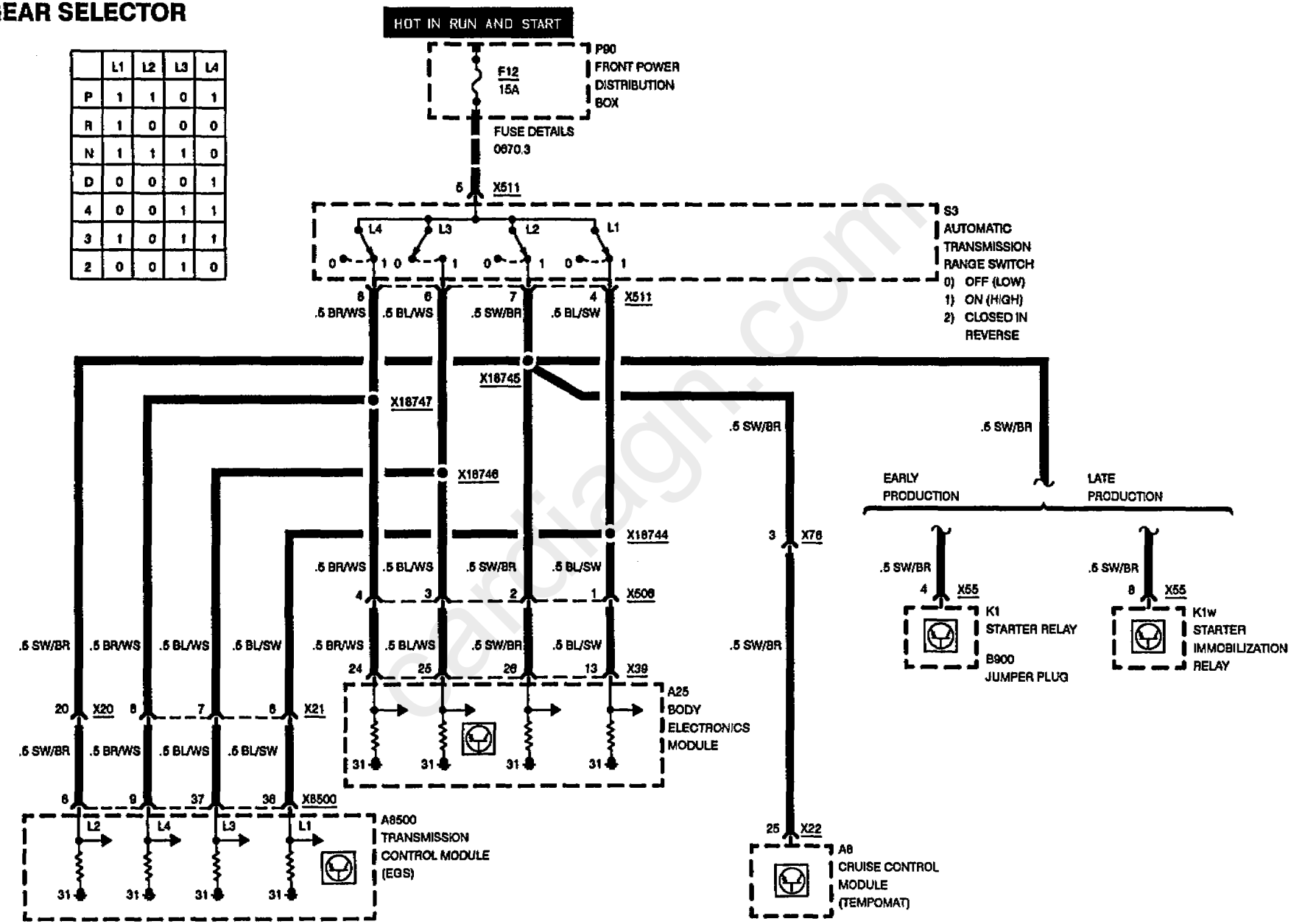
	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

cardiagn.com

BODY ELECTRONICS MODULE (EKM)

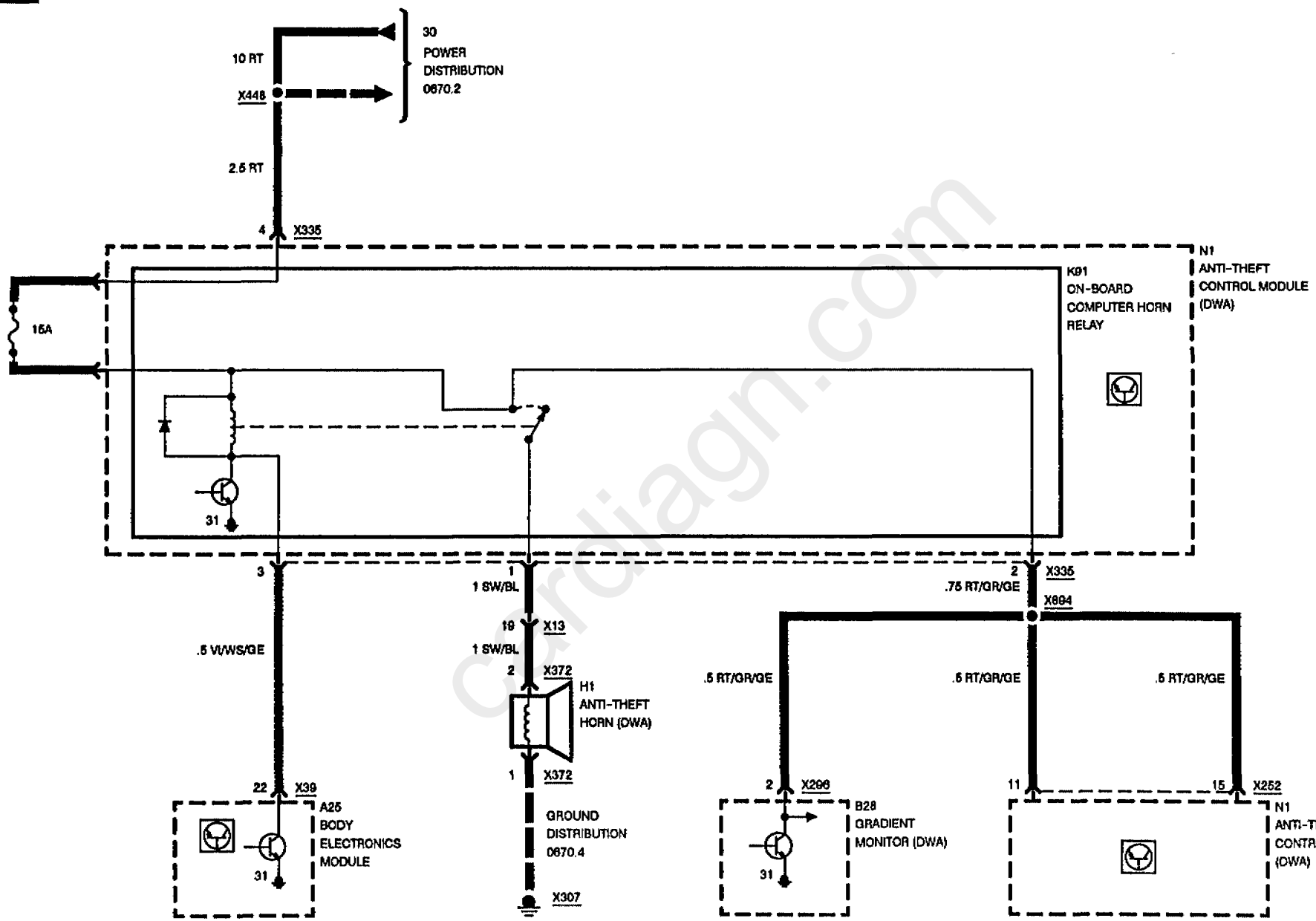
GEAR SELECTOR

	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



carlagn.com

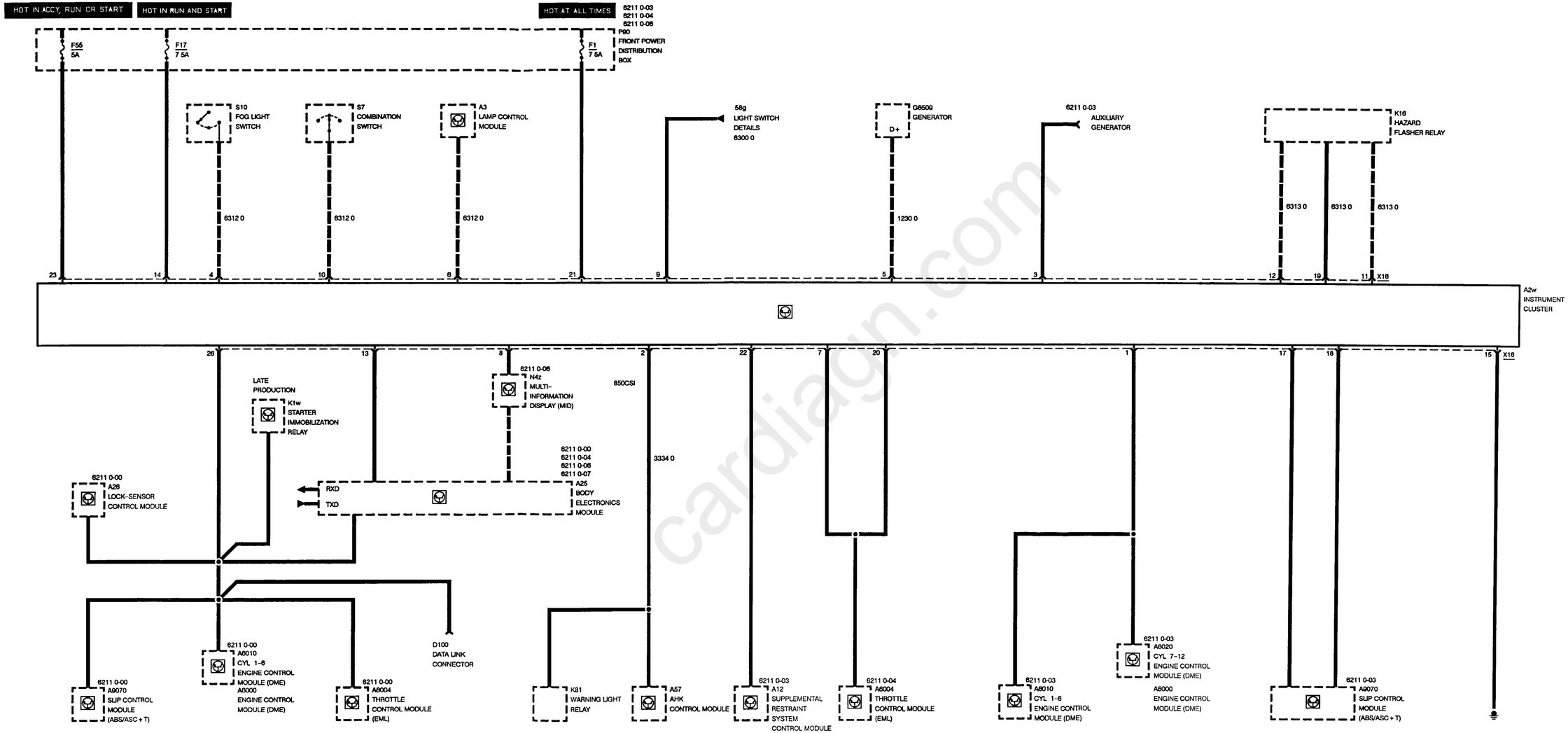
BODY ELECTRONICS MODULE (EKM)



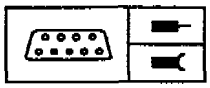
cardiagn.com

carclagn.com

12/94 6211 0 1994
12/94 6211.0 1994



cardiagn.com



Pin Assignments

X16

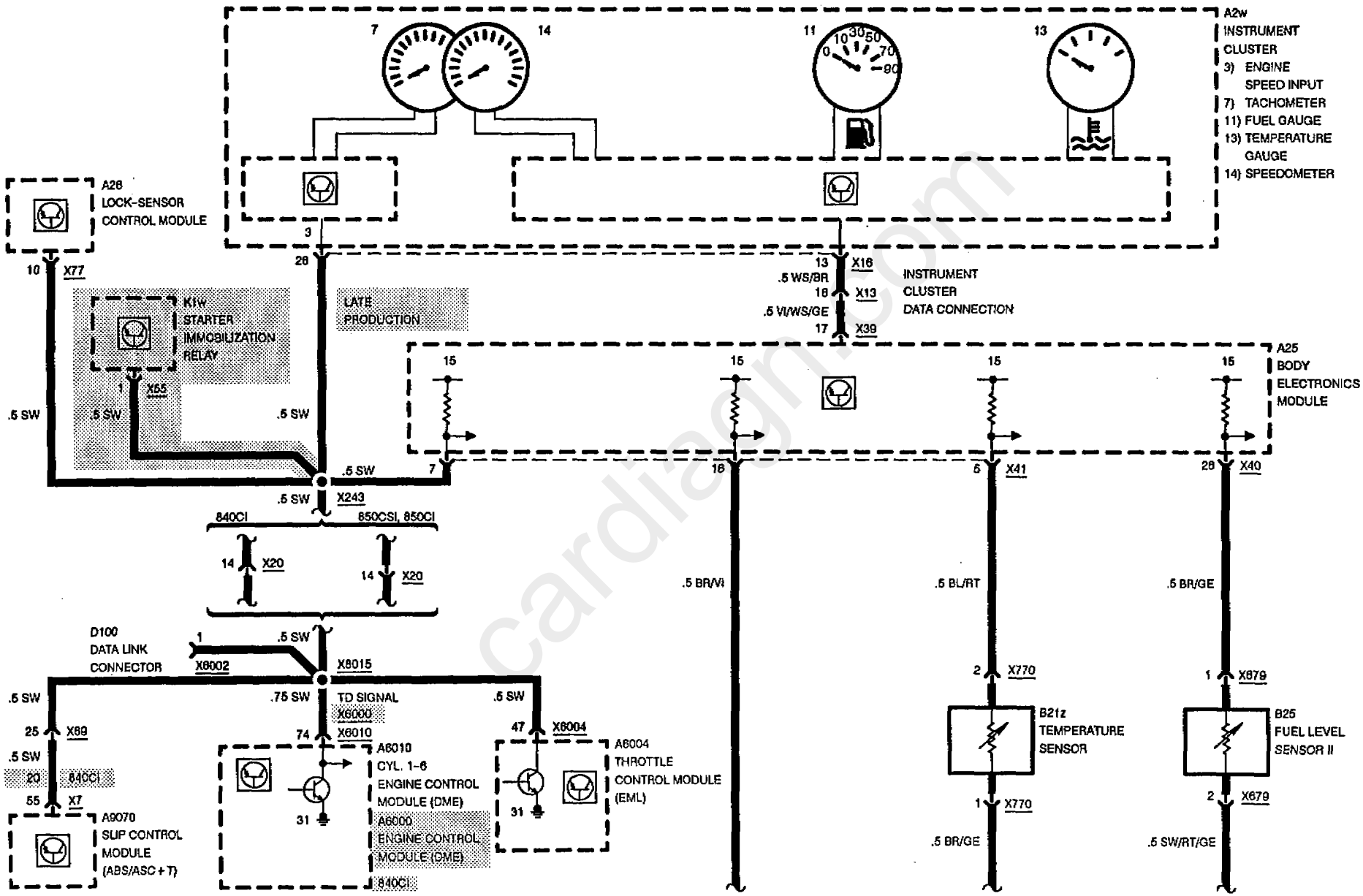
Pin	Type	Description/Function	Connection
1	E	Service reminder indicator (US only)	Engine control modules (DME)
2	E	Only 850CSi indicator lamp	Active rear axle kinematics (AHK)
3		Battery charge indicator lamp 2	Auxiliary generator
4	E	Rear fog light indicator lamp	Fog light switch
5		Battery charge indicator lamp 1	Generator
6	E	Fog light indicator light	Lamp control module
7	E	EML warning light	Electronic throttle control module (EML)
8	E	Display lighting electronically dimmed	Multi-information-display (MID)
9	E	Terminal 58g, switch and instrument lighting	Dimmer
10	E	High beam indicator	Combination switch
11	E	Right turn signal indicator	Hazard flasher relay
12	E	Left turn signal indicator	Hazard flasher relay
13	E/A	Serial interface - instrument cluster data link	Body electronics module (EKM)
14	E	Voltage (terminal 15)	Fuse
15	M	Ground	Ground point
16		Not used	
17	E	ASC + T indicator lamp	Slip control module (ASC + T)
18	E	ABS indicator lamp	Slip control module (ASC + T)
19	E	Trailer turn signal indicator	Hazard flasher relay
20	E	EML warning lamp	Electronic throttle control module (EML)
21	E	Voltage (terminal 30)	Fuse
22	E	Airbag warning lamp	Supplemental restraint system control module
23	E	Voltage (terminal R)	Fuse
24		Not used	
25		Not used	
26	E	Engine speed (rpm) signal (tD)	Cyl. 1 - 6 engine control module (DME)

E = Input, A = Output, M = Ground

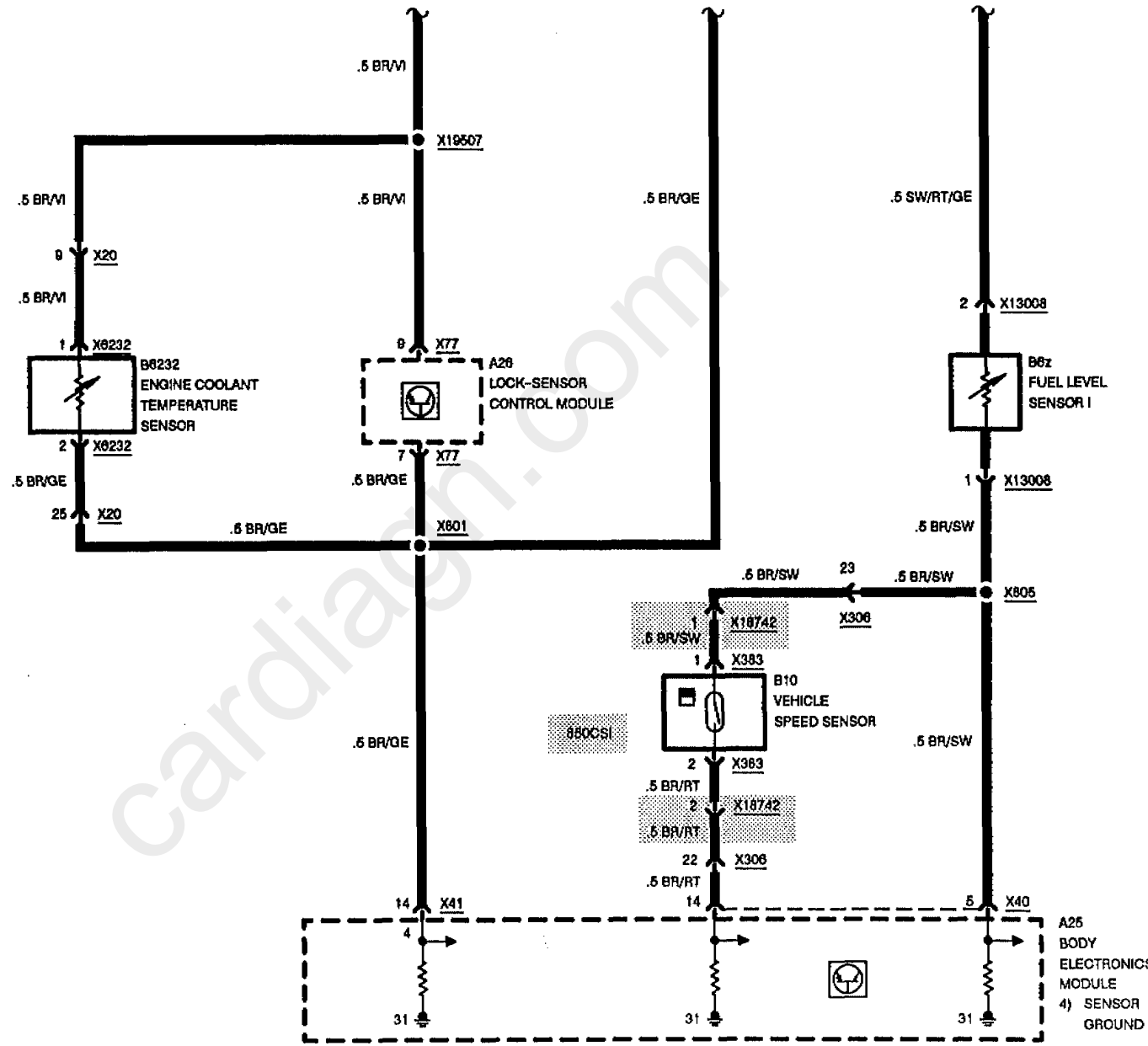
cardiagn.com

INSTRUMENT CLUSTER

INDICATORS



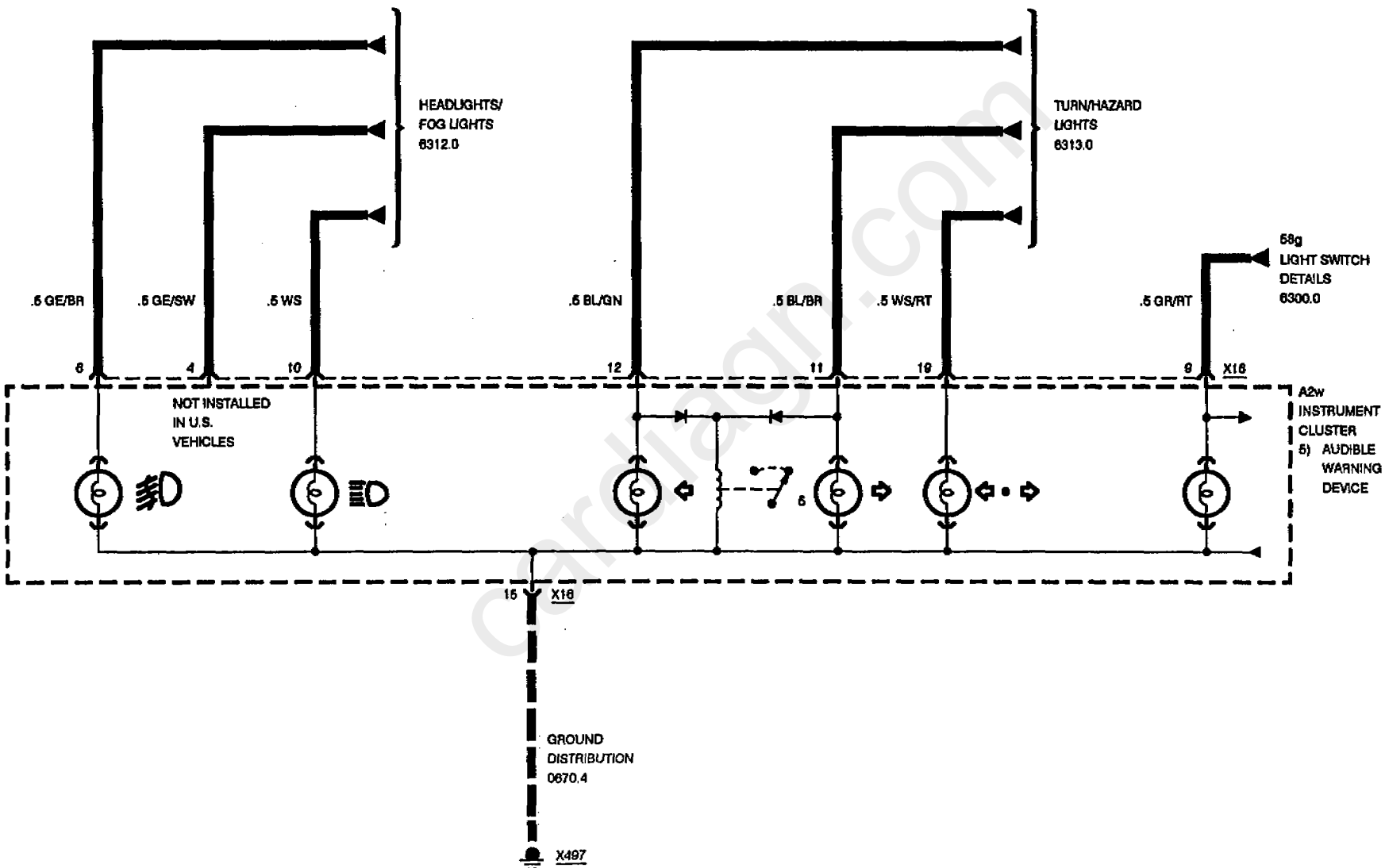
cardiagn.com



cardiagn.com

INSTRUMENT CLUSTER

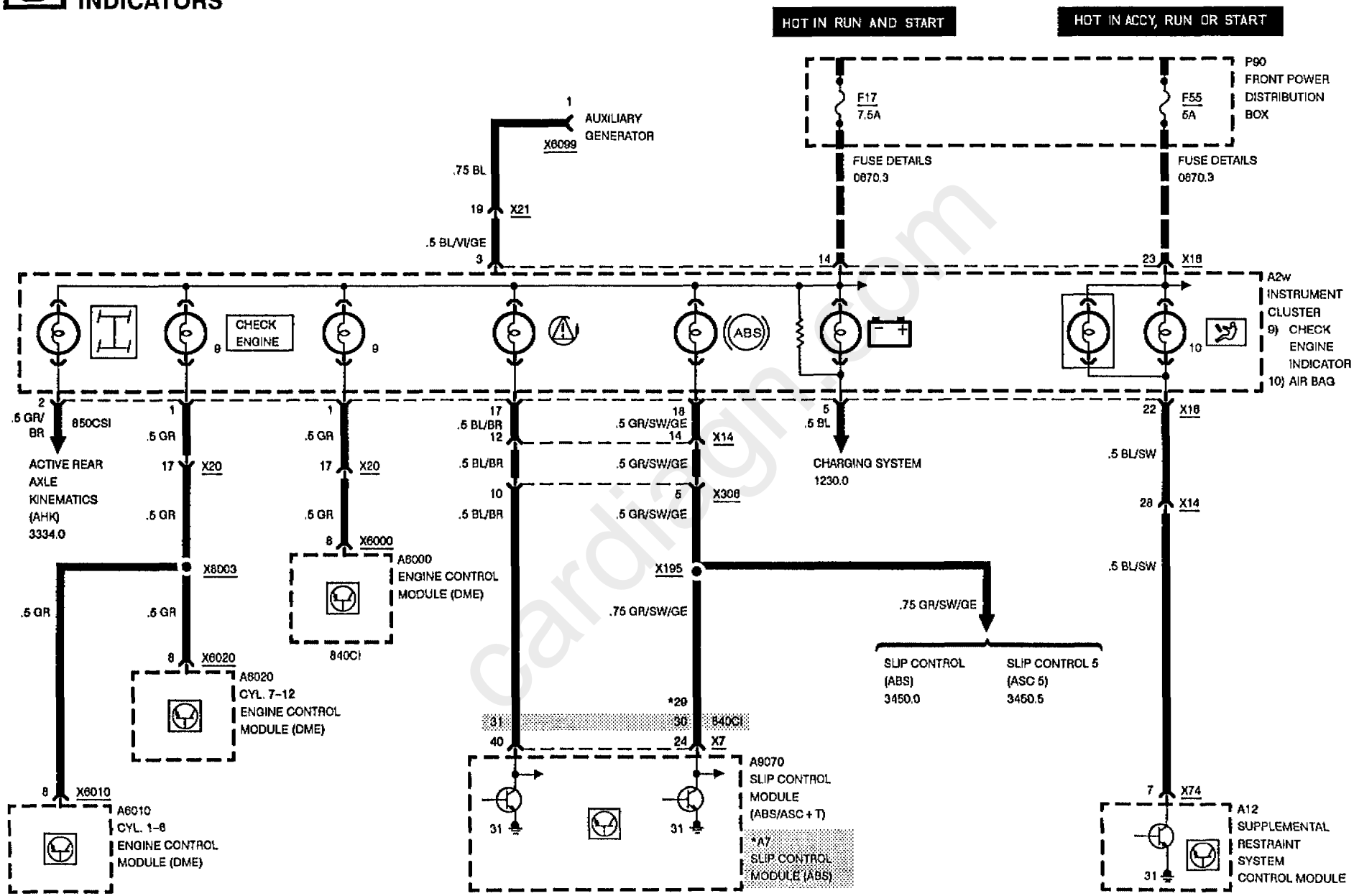
INDICATORS



cardiagn.com

INSTRUMENT CLUSTER

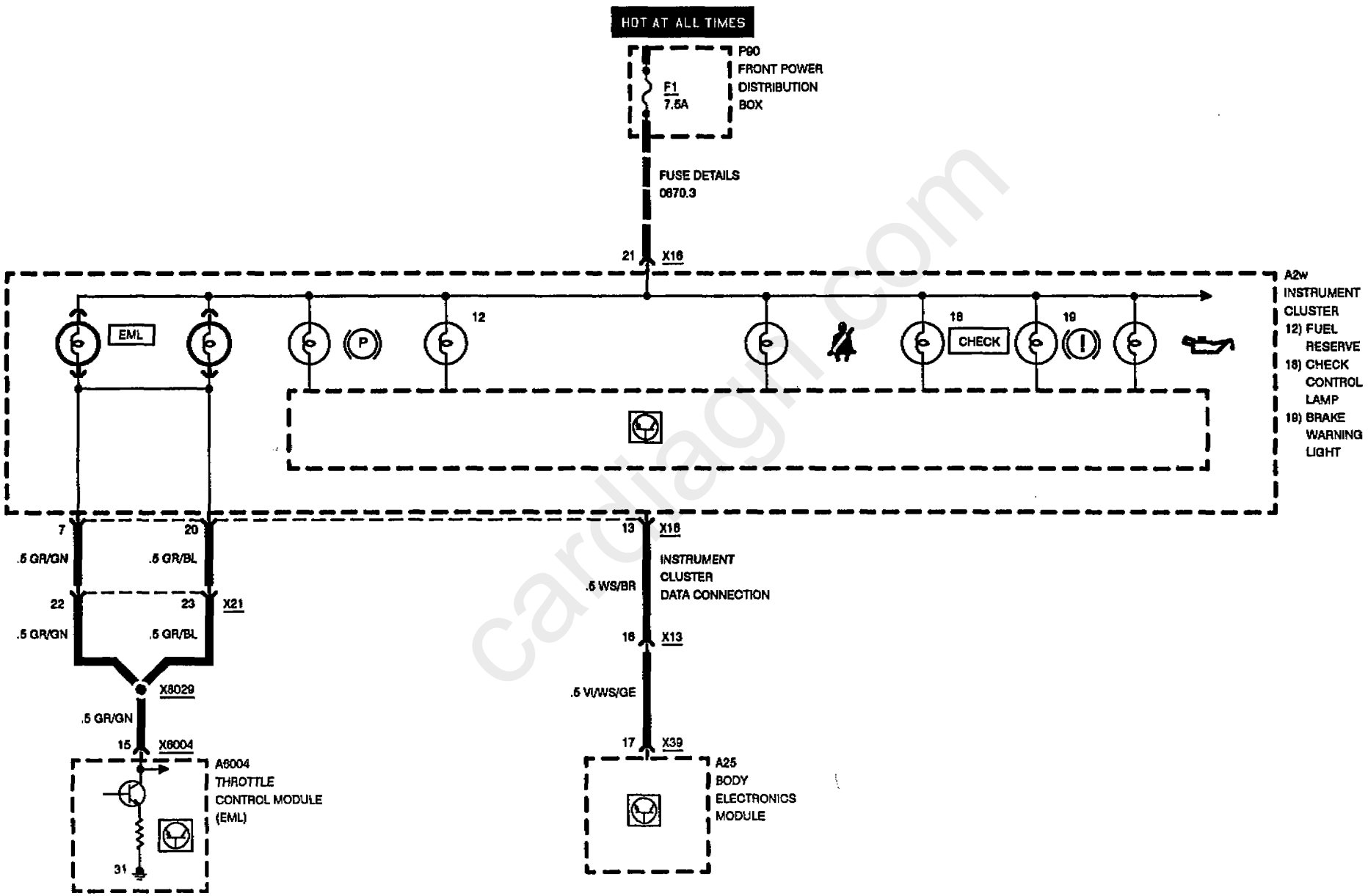
INDICATORS



cardiagn.com

INSTRUMENT CLUSTER

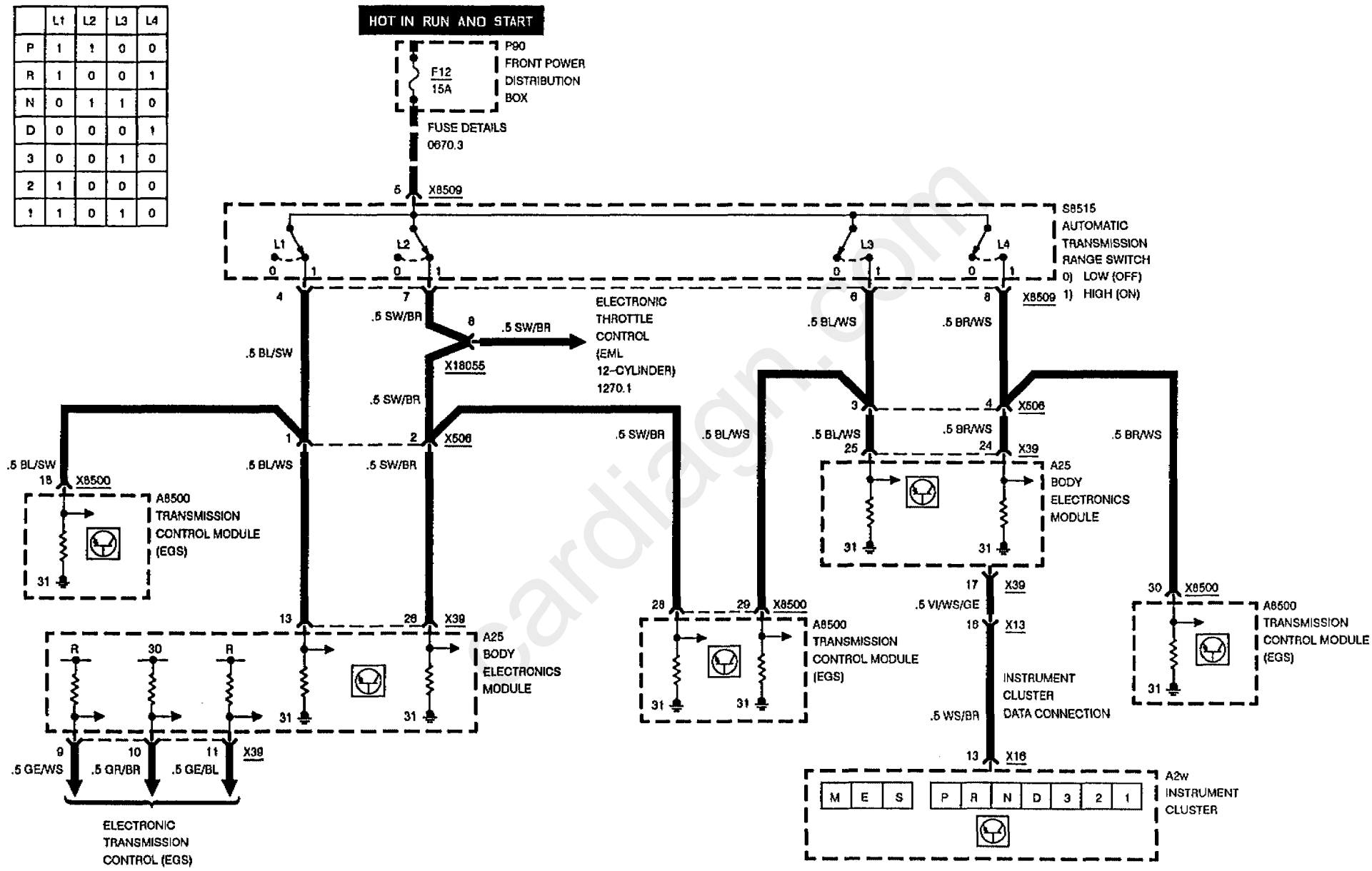
INDICATORS



cardiagn.com

GEAR SELECTOR

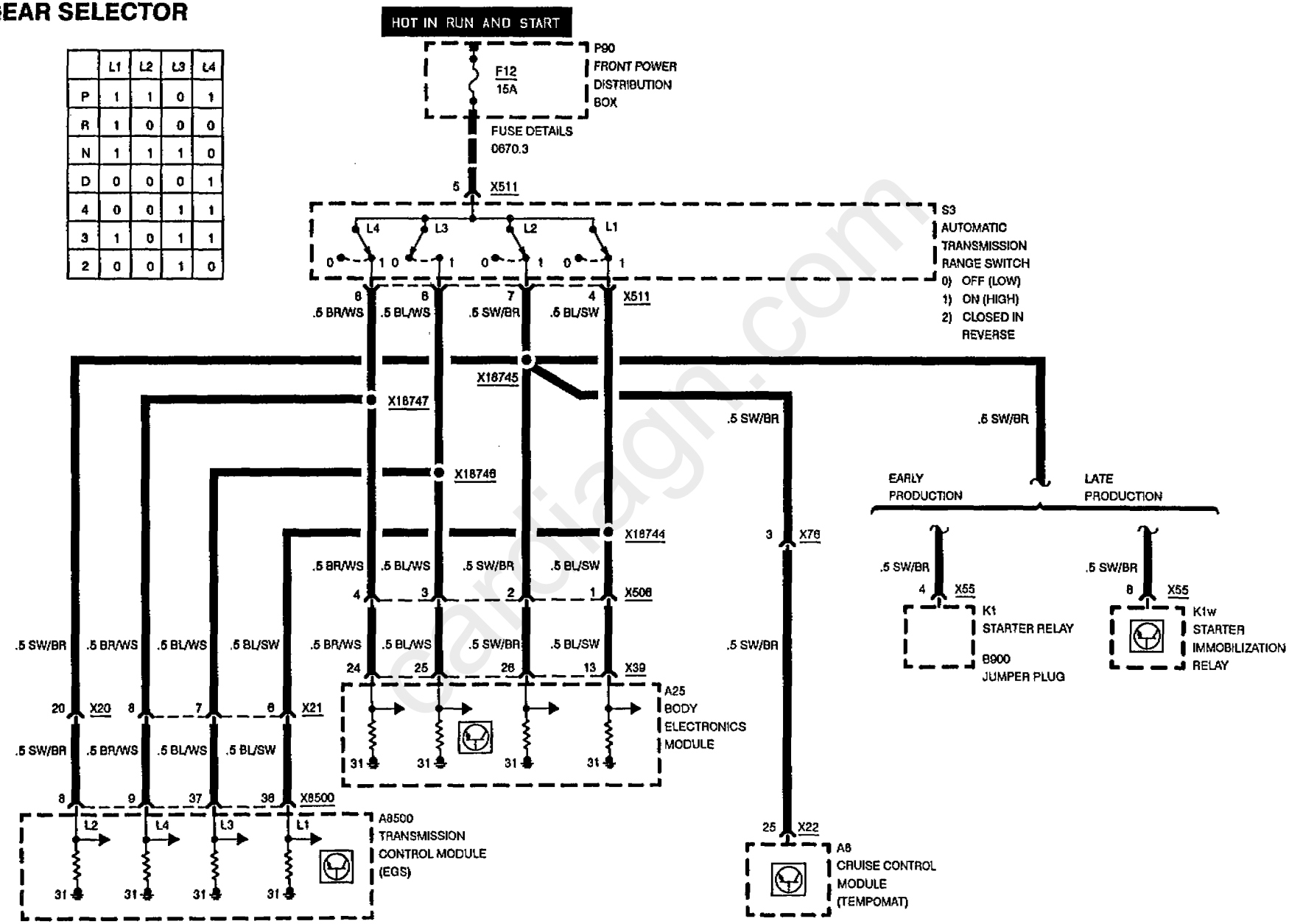
	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0



cardiagn.com

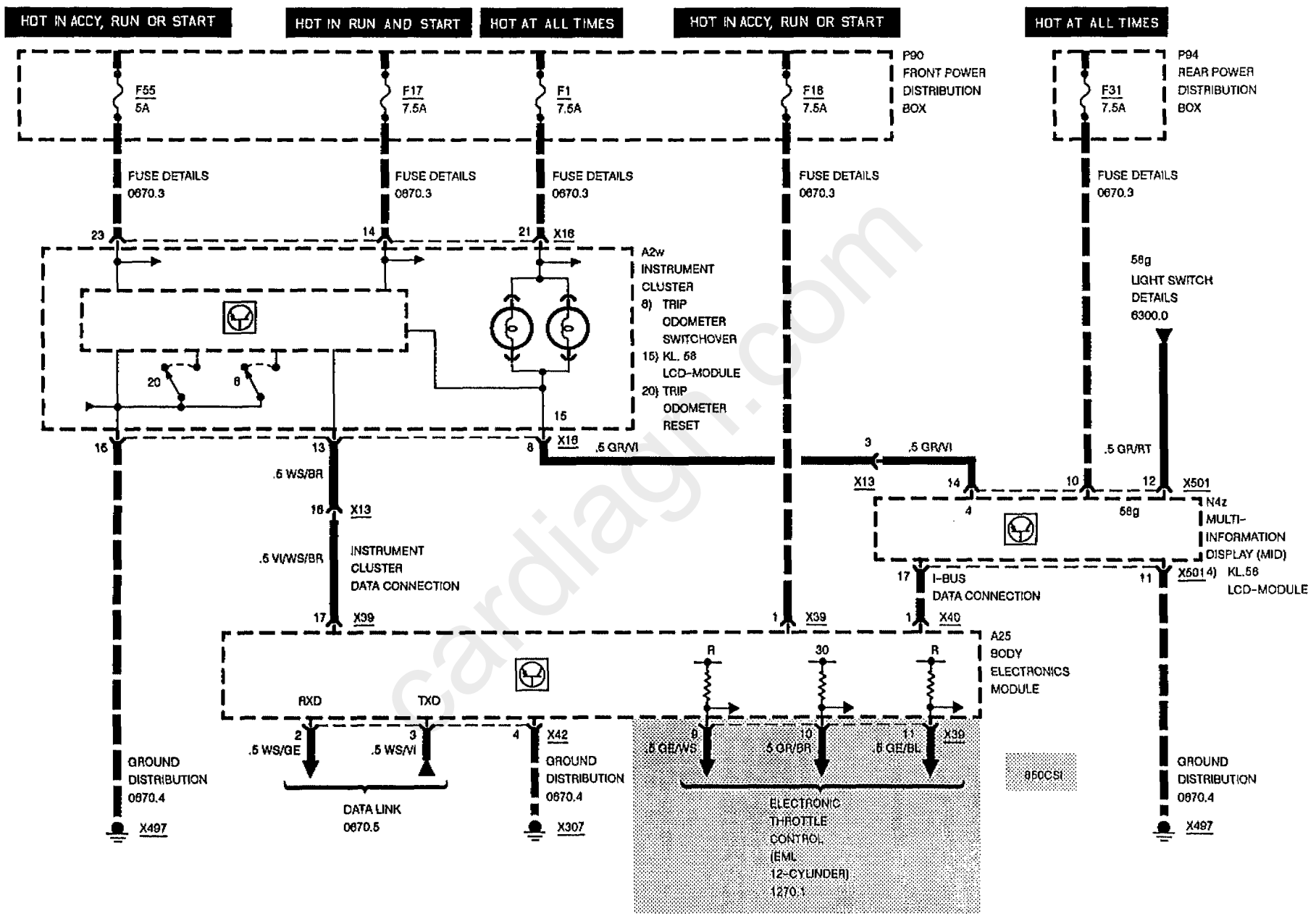
GEAR SELECTOR

	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



cardiagn.com

INSTRUMENT CLUSTER

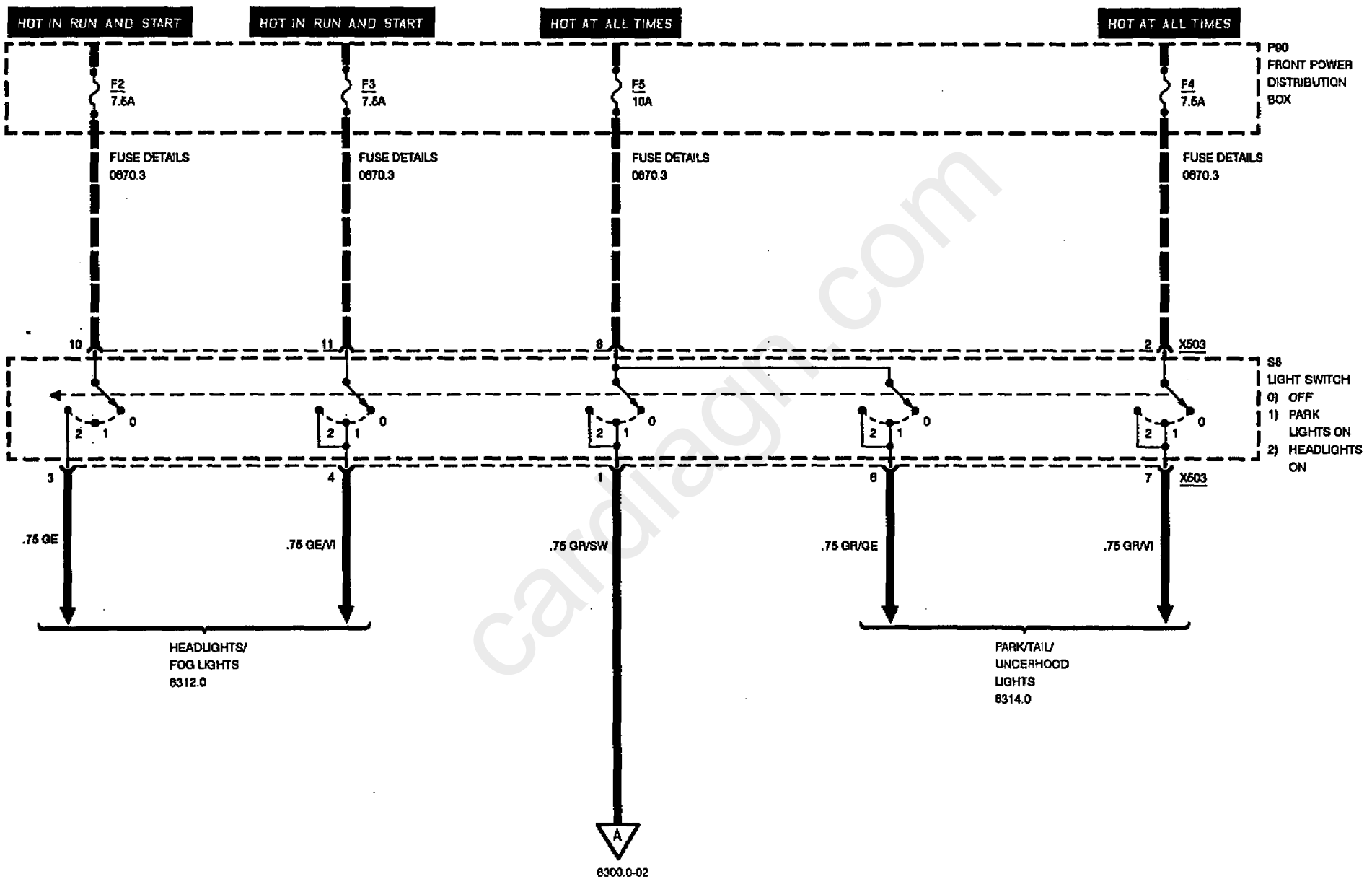


carldiagn.com

cardiagn.com

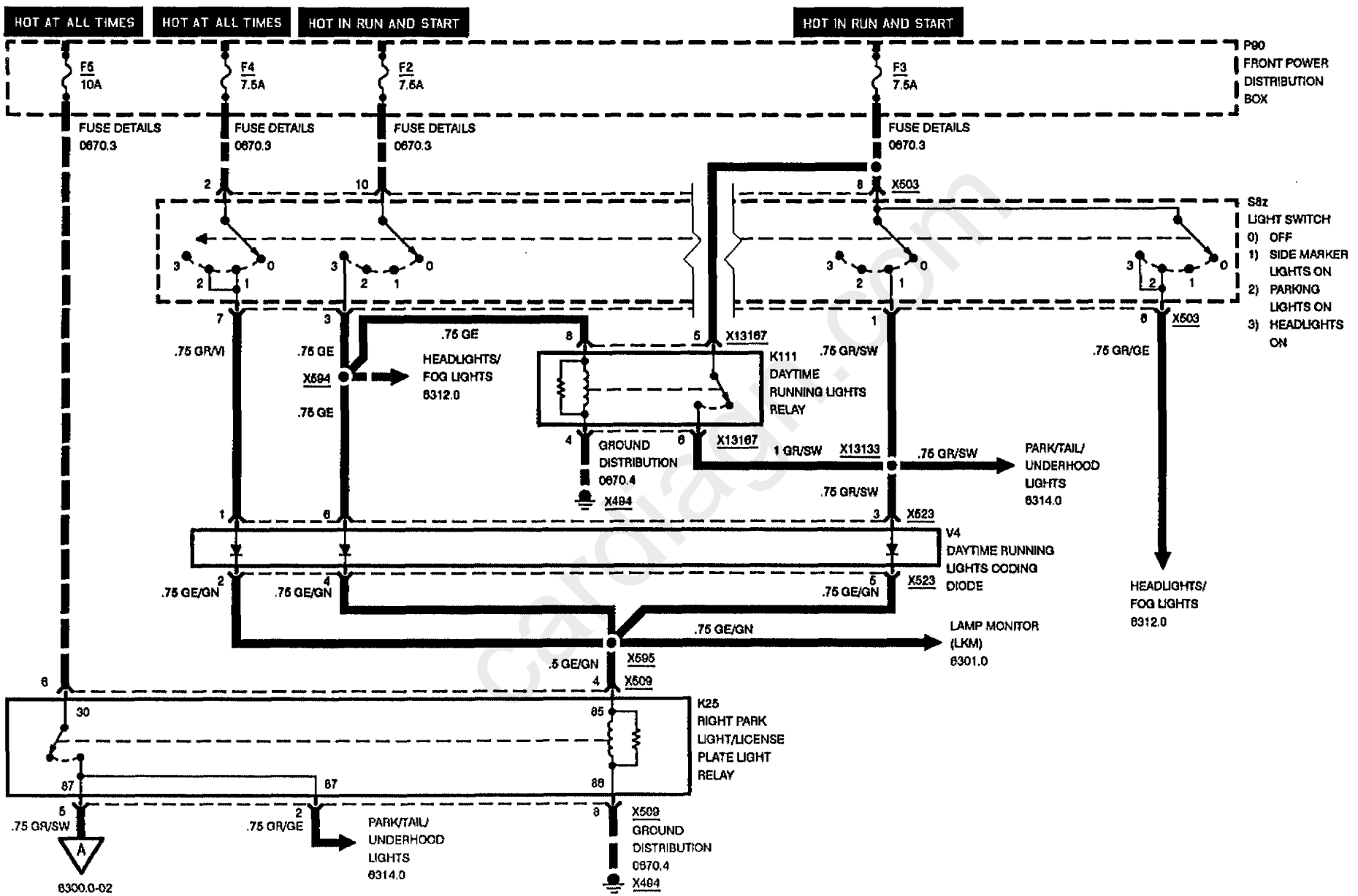
LIGHT SWITCH DETAILS

USA



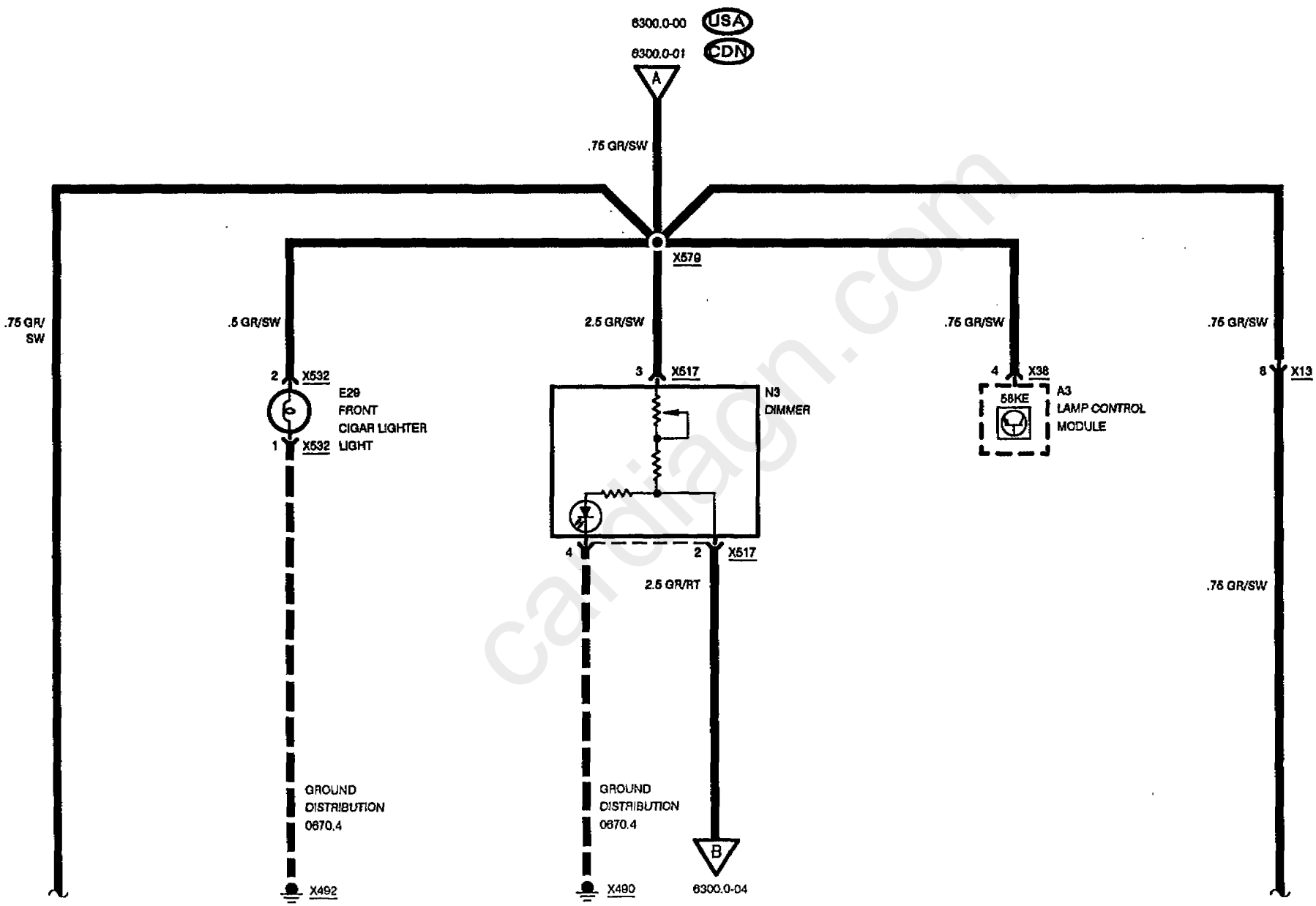
cardiagn.com

LIGHT SWITCH DETAILS

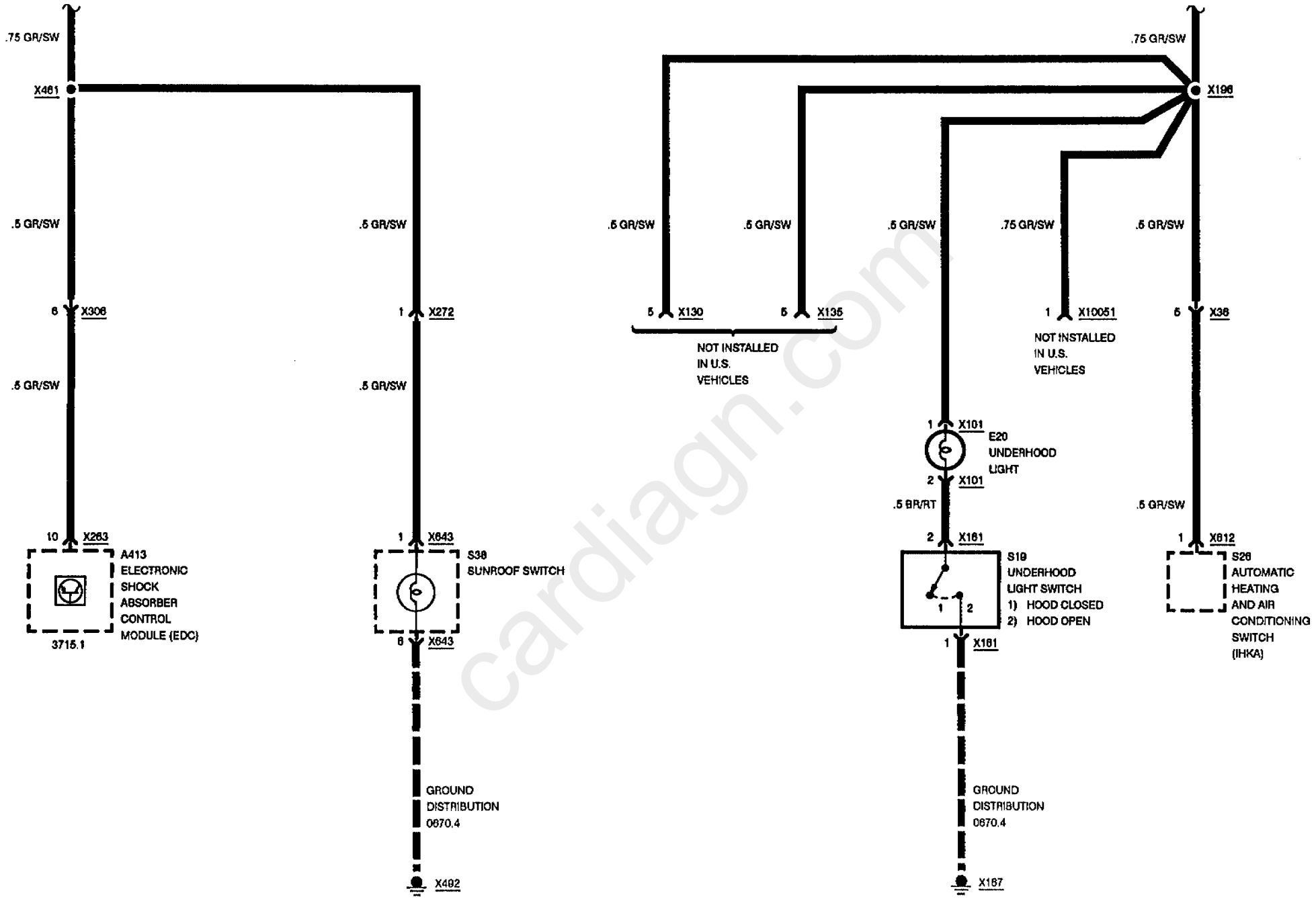


cardiagn.com

LIGHT SWITCH DETAILS

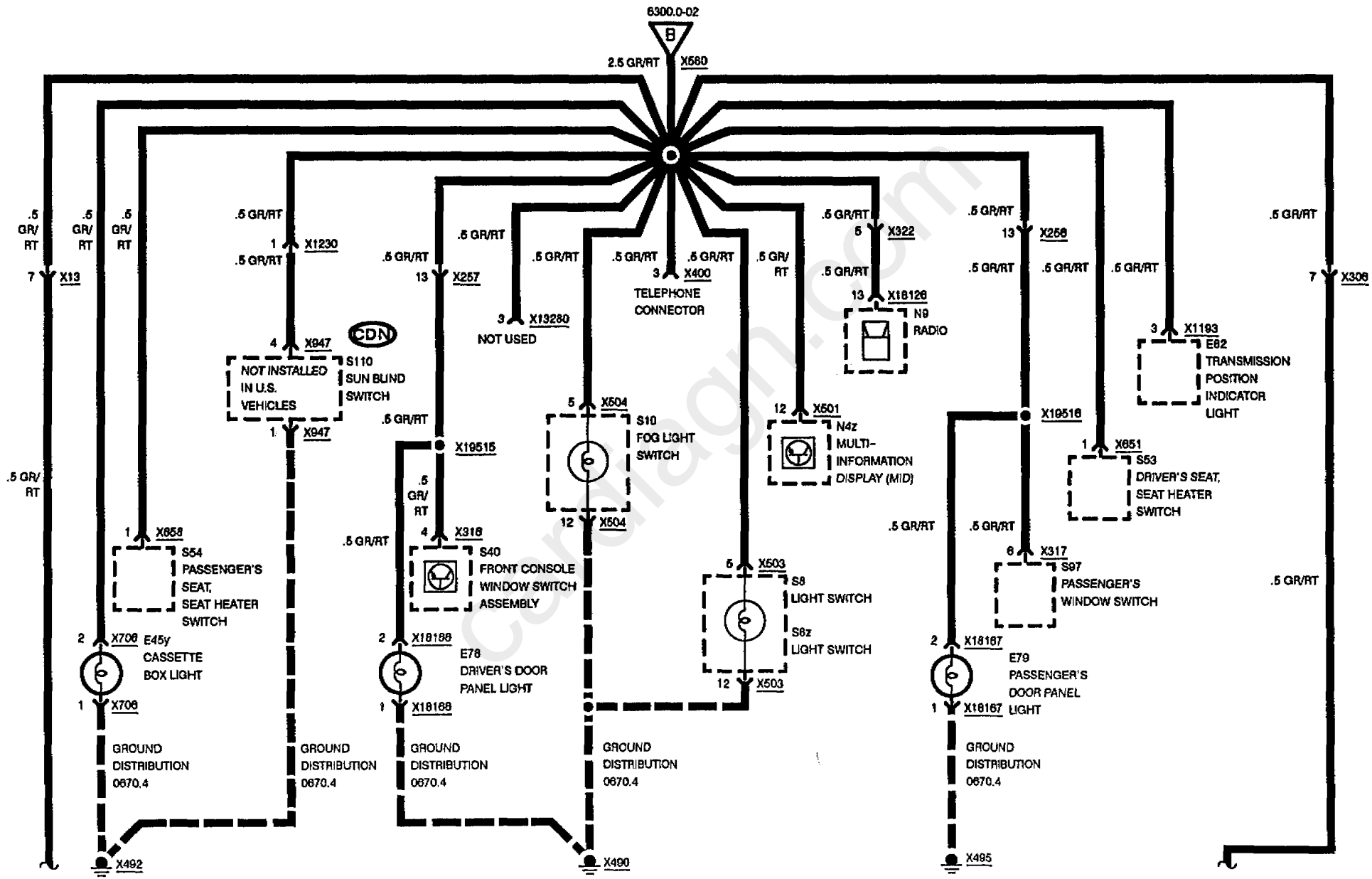


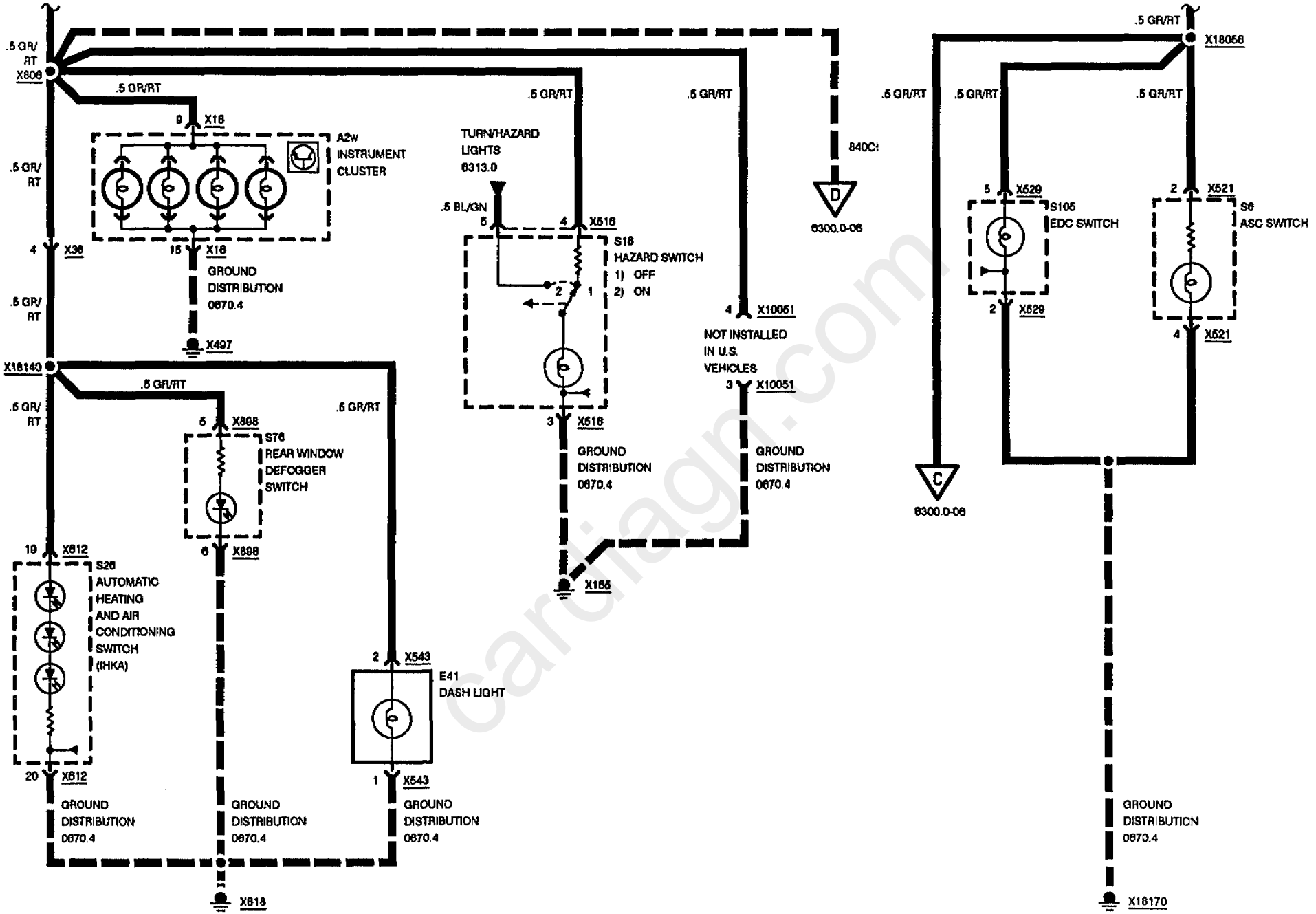
cardiagn.com



cardiagn.com

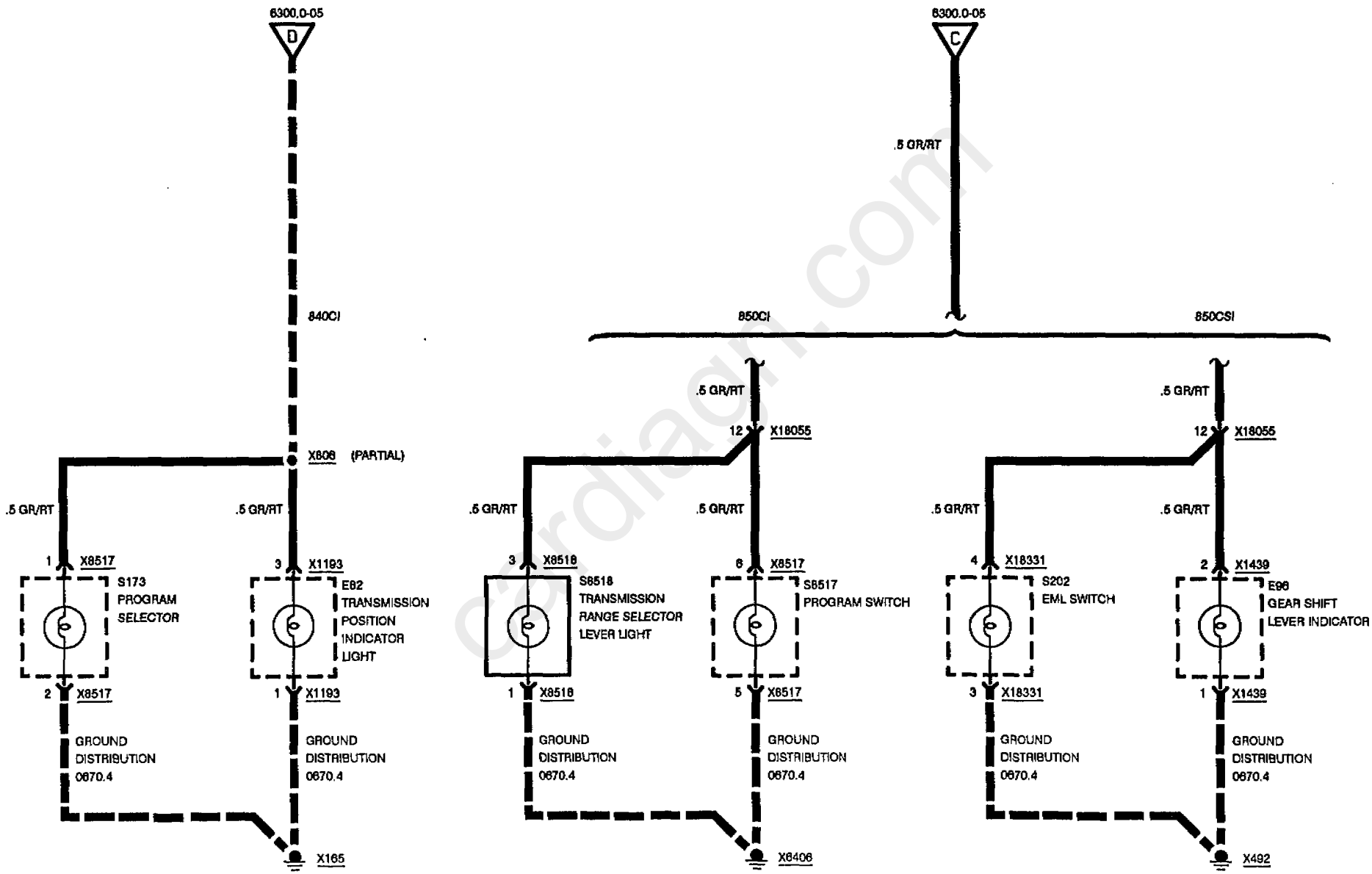
LIGHT SWITCH DETAILS





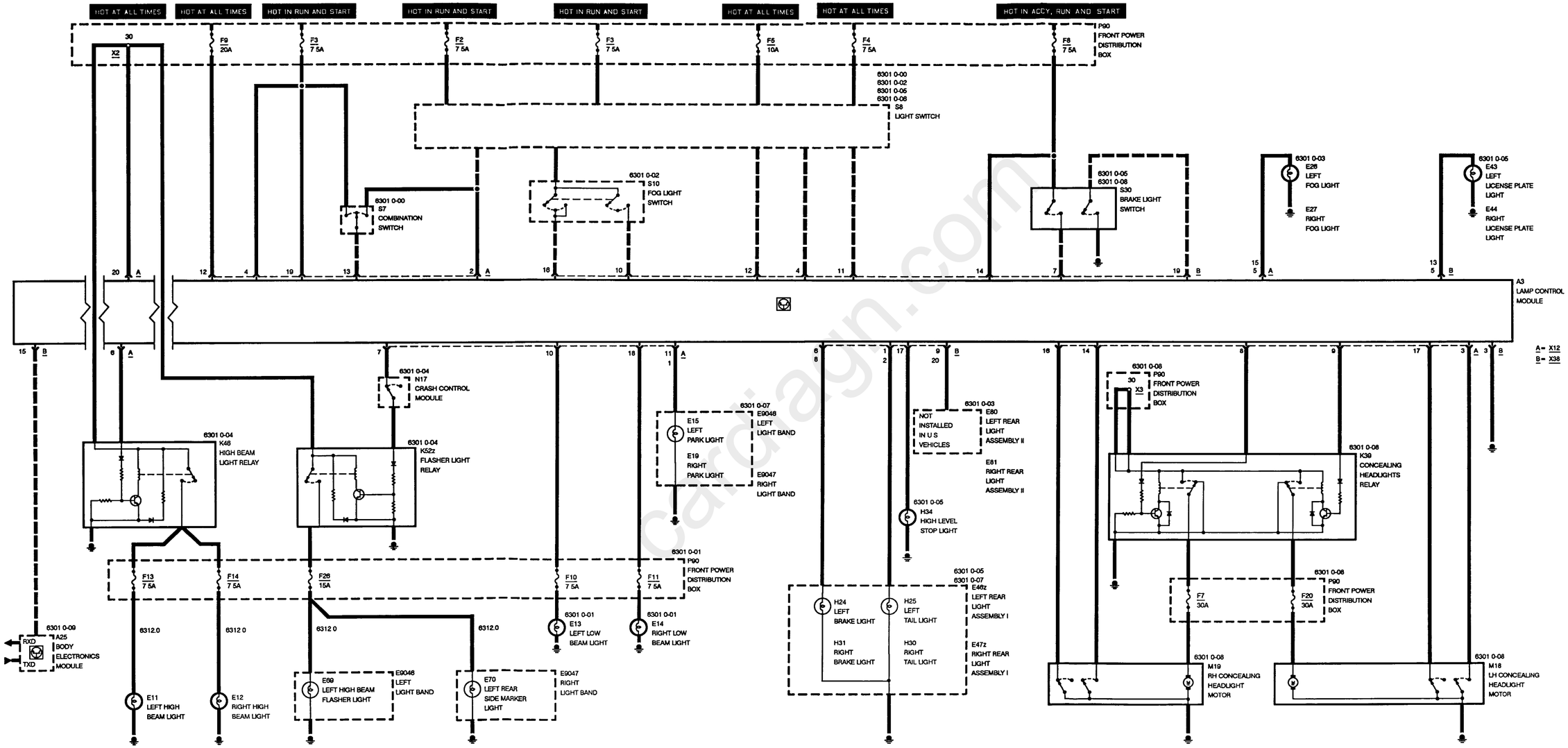
cardiagn.com

LIGHT SWITCH DETAILS

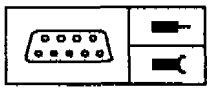


cardiagn.com

12/94 6301.0 1994
12/94 6301.0 1994



cardiagn.com



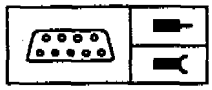
Pin Assignments

A=X12	20 pins, white
B=X38	20 pins, black

X12

Pin	Type	Description/Function	Connection
1	A	Right front parking light	Rear light assembly
2	E	Light switch/low beam	Light switch
3	E	Left KSW position signal (KSW position OPEN)	Left concealing headlight motor (KSW)
4	E	Power circuit for rear fog light, control circuit for fog lights, low beam, high beam/head-light flasher	Fuse
5	A	Right fog light	Right fog light
6	A	High beam relay (double relay high beam/headlight flasher)	High beam light relay
7	A	Headlight flasher relay (double relay high beam/headlight flasher)	Crash control unit
8	A	Right concealing headlight motor signal	Concealing headlight relay
9	A	Left concealing headlight motor signal	Concealing headlight relay
10	A	Left low beam	Left low beam light
11	A	Left front parking light	Left light assembly
12	E	Power circuit for fog lights	Fuse
13	E	High beam	Combination switch
14	E	Right KSW position signal (KSW position OPEN)	Right concealing headlight motor (KSW)
15	A	Left fog light	Left fog light
16	E	Right KSW position signal (KSW position CLOSED)	Right concealing headlight motor (KSW)
17	E	Left KSW position signal (KSW position CLOSED)	Left concealing headlight motor (KSW)
18	A	Right low beam	Right low beam light
19	E	Voltage supply terminal 15/control circuit	Fuse
20	E	Voltage supply terminal 30/control circuit	Power distribution box

E = Input, A = Output, M = Ground



Pin Assignments

X38

Pin	Type	Description/Function	Connection
1	A	Left tail light	Left tail light
2	A	Right tail light	Right tail light
3	M	Ground	Ground point
4	E	License plate light signal	Light switch
5	A	Right license plate light	Right license plate light
6	A	Left brake light	Left brake light
7	E	Brake light signal	Brake light switch
8	A	Right brake light	Right brake light
9	A	Left rear fog light	Left rear light assembly
10	E	Rear fog light voltage	Fog light switch
11	E	Left parking light voltage	Light switch/left park light relay
12	E	Right parking light voltage	Light switch/right park light relay
13	A	Left license plate light	Left license plate light
14	E	Brake lights voltage	Fuse
15	E/A	I-bus/data link	All control units with I-bus
16	E	Fog light voltage	Fog light switch
17	A	High level stop light	High level stop light
18		Not used	
19	E	Brake pedal status	Brake light test switch
20	A	Right fog light	Right rear light assembly

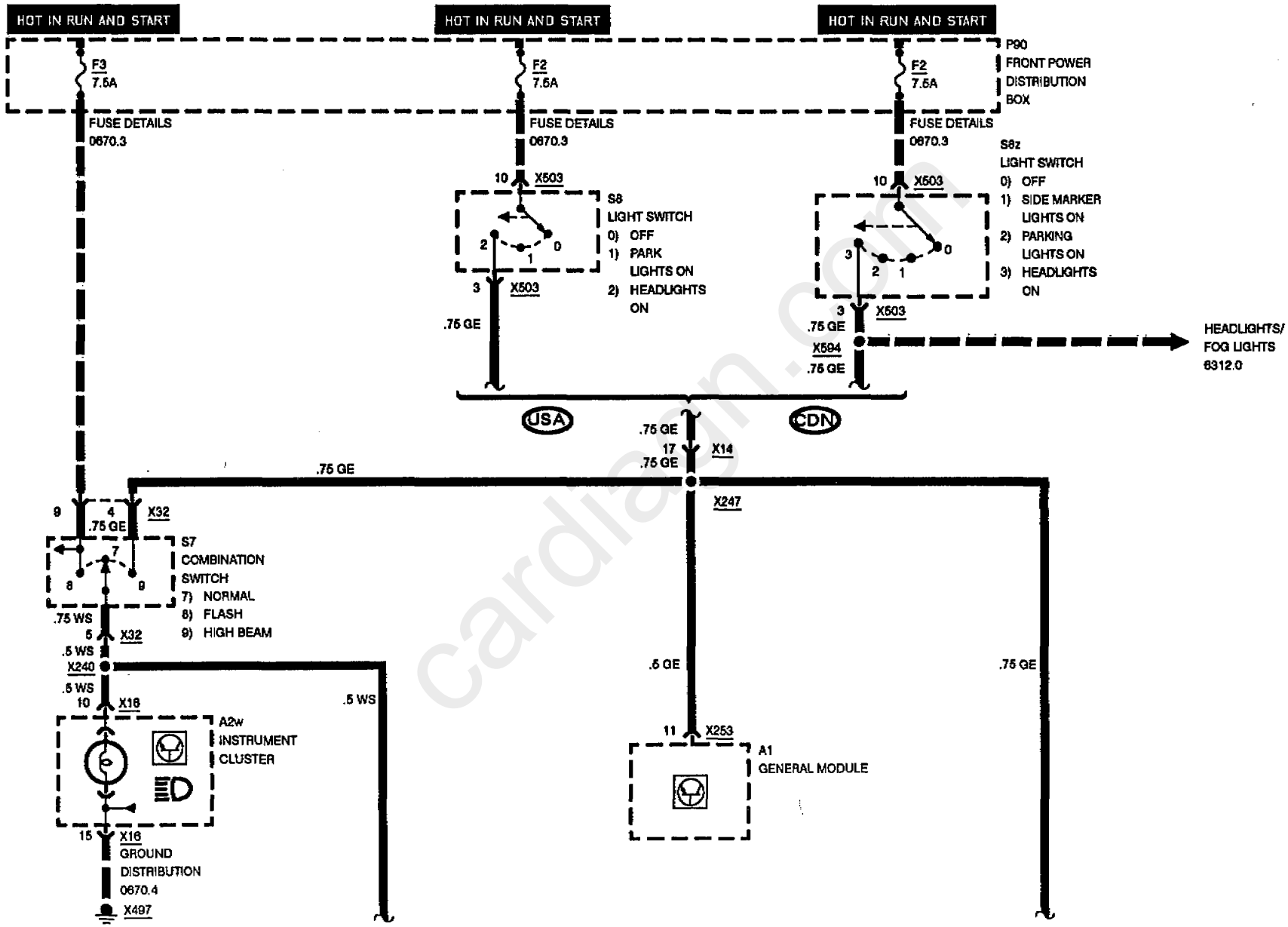
E = Input, A = Output, M = Ground

carDiagn.com

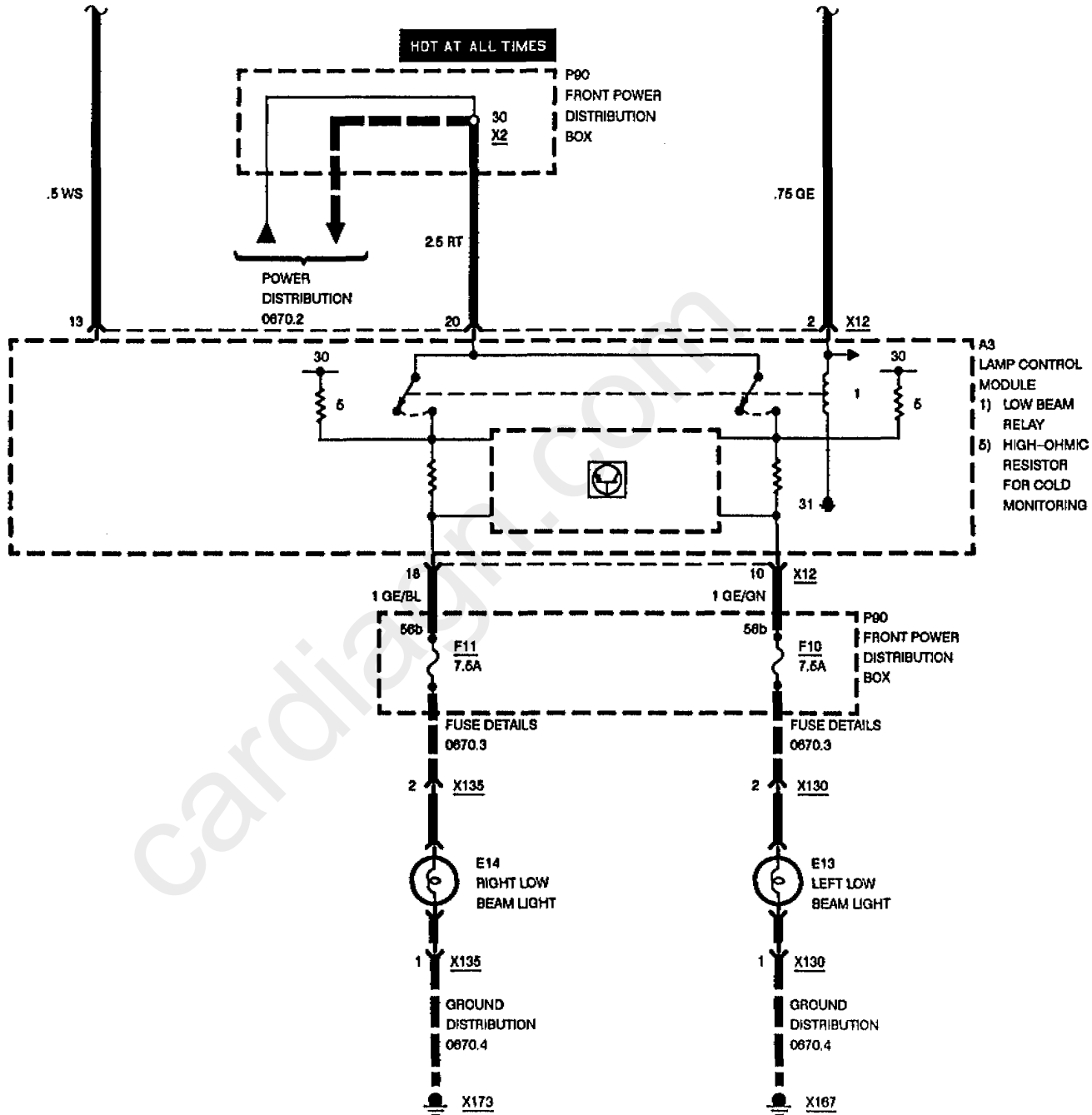
carclagn.com

LAMP MONITOR (LKM)

HEADLIGHTS



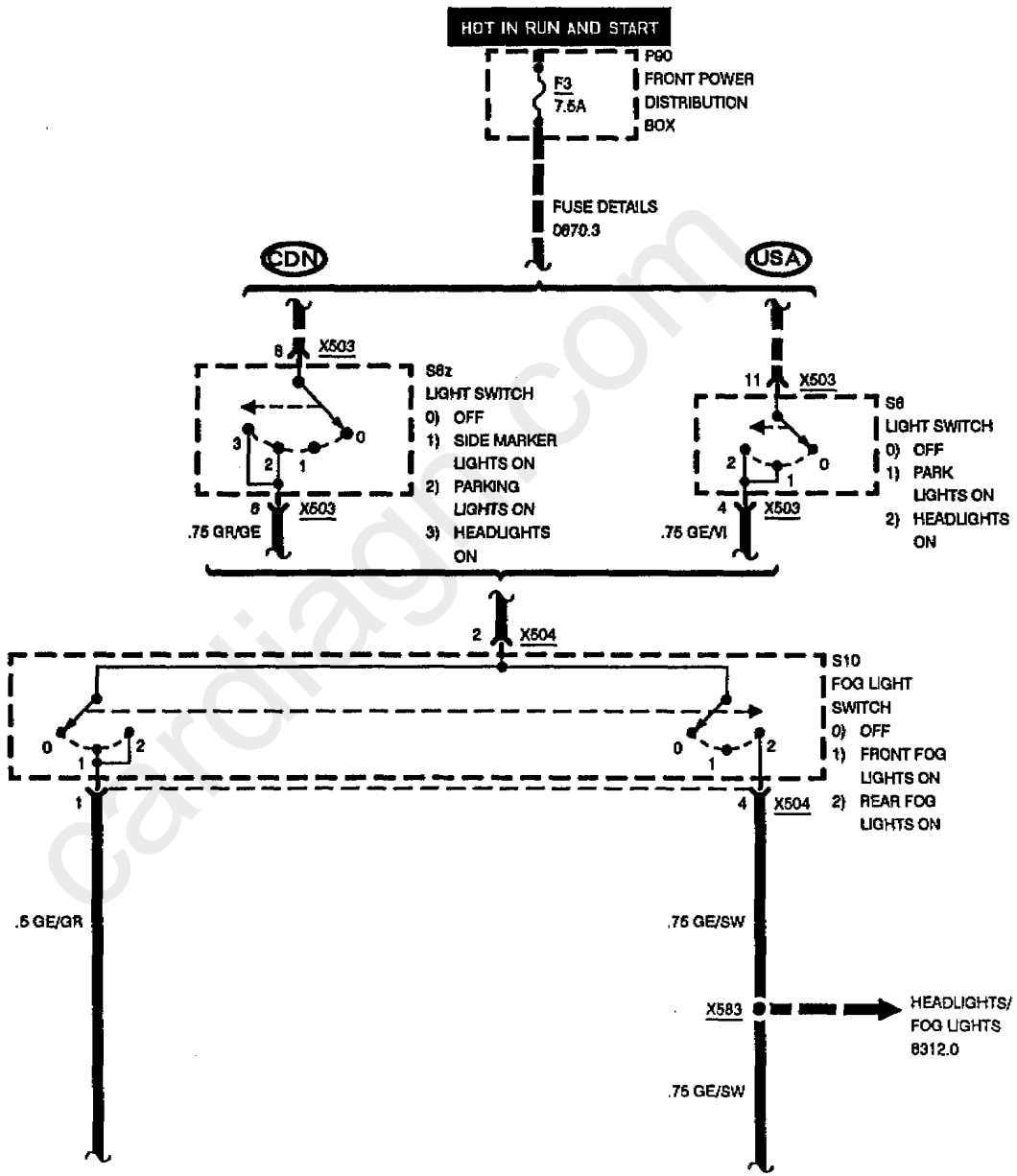
cardiagn.com



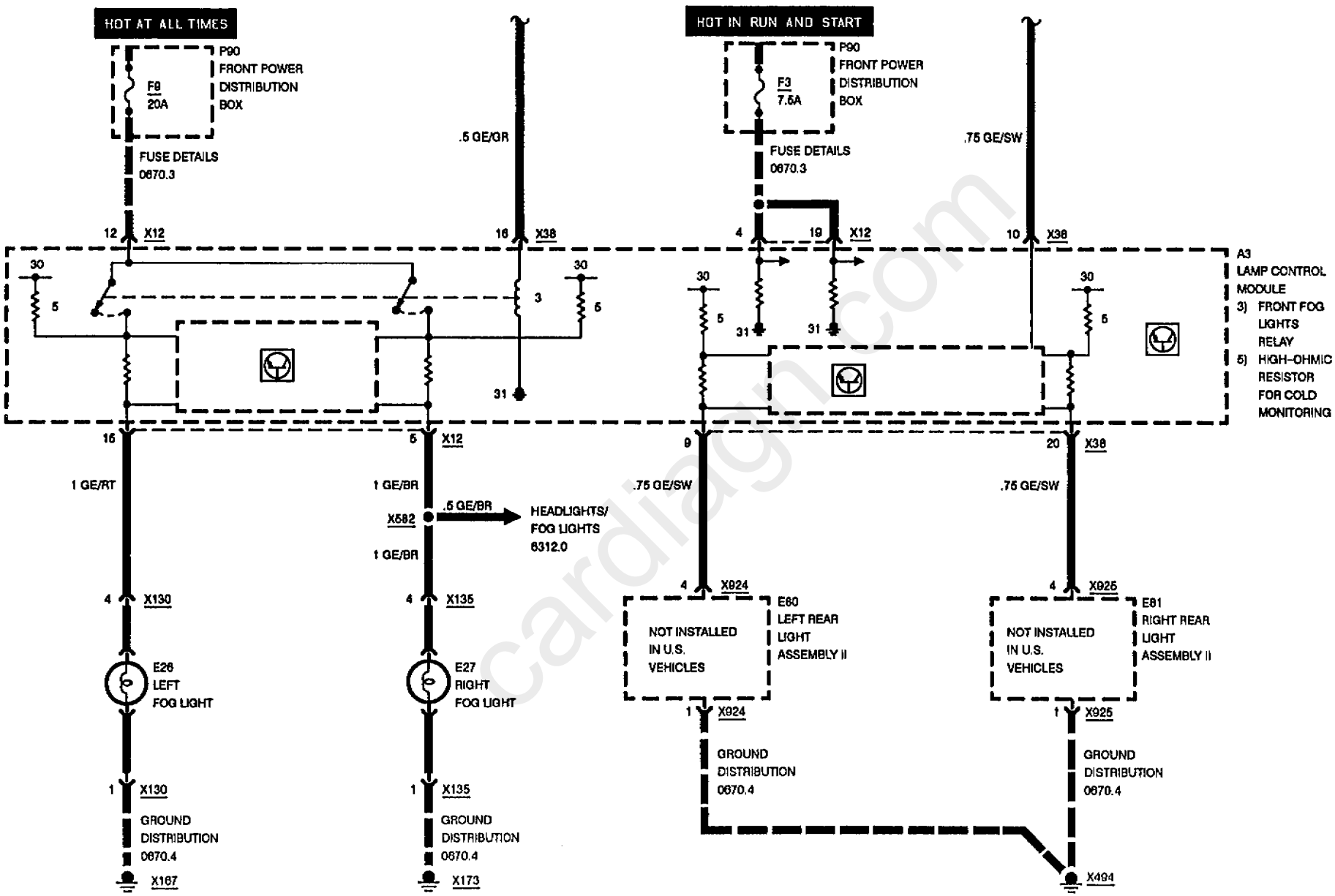
cardiagn.com

LAMP MONITOR (LKM)

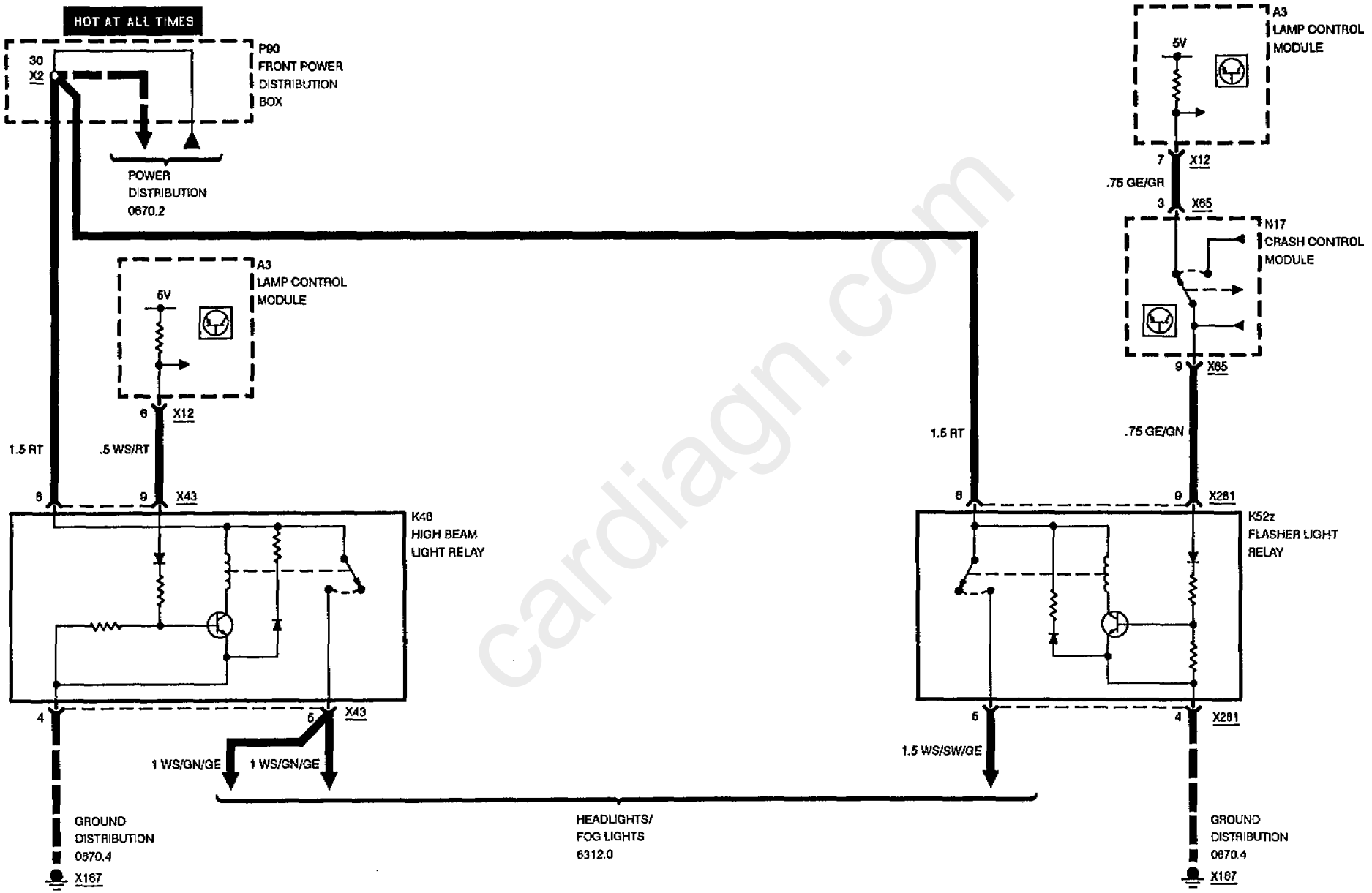
FRONT FOG LIGHTS



cardiagn.com


HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F8
20A
FUSE DETAILS
0670.3
.5 GE/GR
12 X12
16 X38
30
5
3
6
31
HOT IN RUN AND START
P90
FRONT POWER
DISTRIBUTION
BOX
F3
7.5A
FUSE DETAILS
0670.3
.75 GE/SW
4 19 X12
10 X38
31
A3
LAMP CONTROL
MODULE
3) FRONT FOG
LIGHTS
RELAY
5) HIGH-OHMIC
RESISTOR
FOR COLD
MONITORING
16 X12
5 X12
9 X38
20 X38
1 GE/RT
1 GE/BR
.5 GE/BR
X582
HEADLIGHTS/
FOG LIGHTS
6312.0
.75 GE/SW
4 X130
4 X135
4 X924
4 X925
E26
LEFT
FOG LIGHT
E27
RIGHT
FOG LIGHT
E60
LEFT REAR
LIGHT
ASSEMBLY II
E61
RIGHT REAR
LIGHT
ASSEMBLY II
NOT INSTALLED
IN U.S.
VEHICLES
1 X130
1 X135
1 X924
1 X925
GROUND
DISTRIBUTION
0670.4
X167
X173
X494

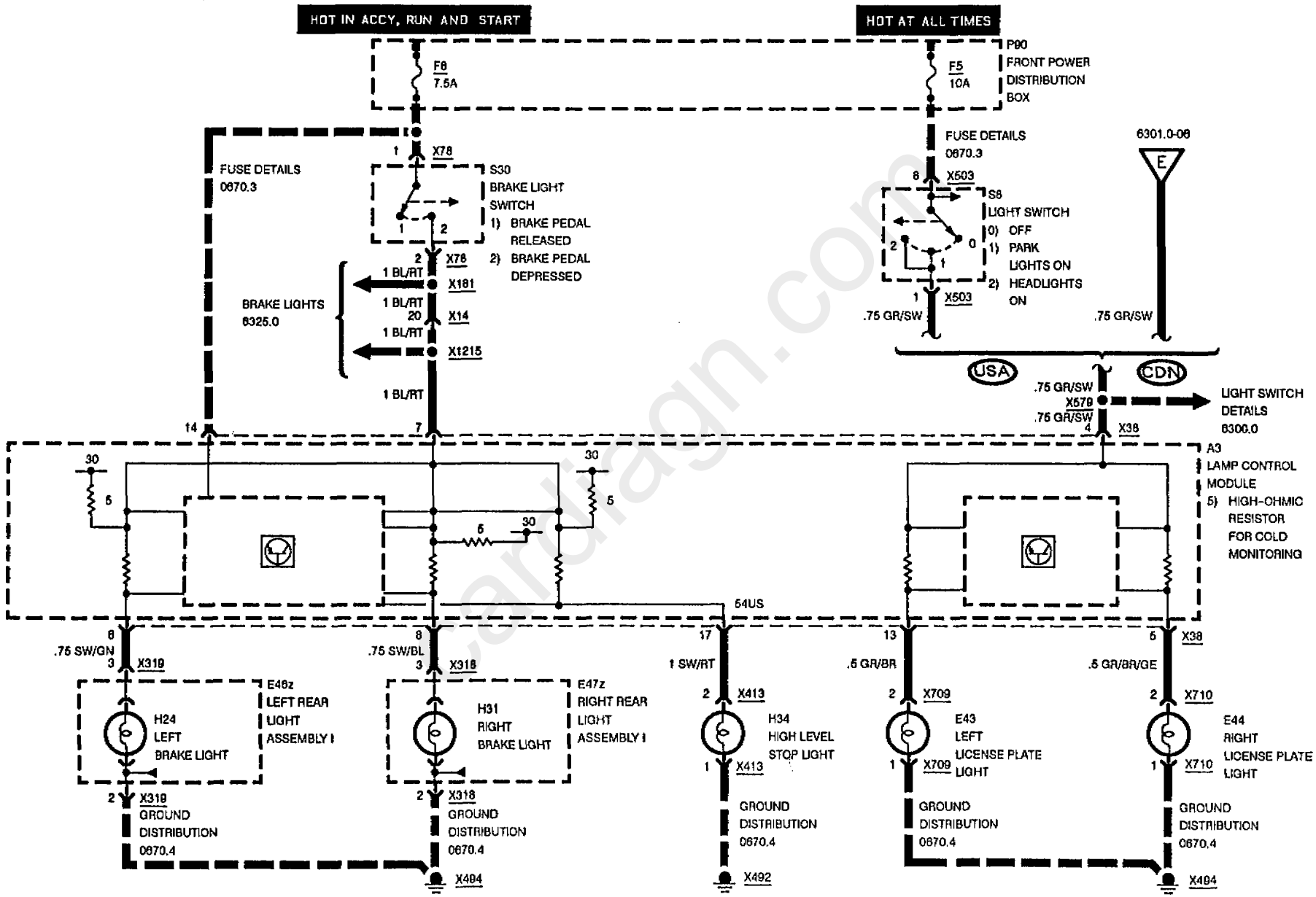
LAMP MONITOR (LKM)



cardiagn.com

LAMP MONITOR (LKM)

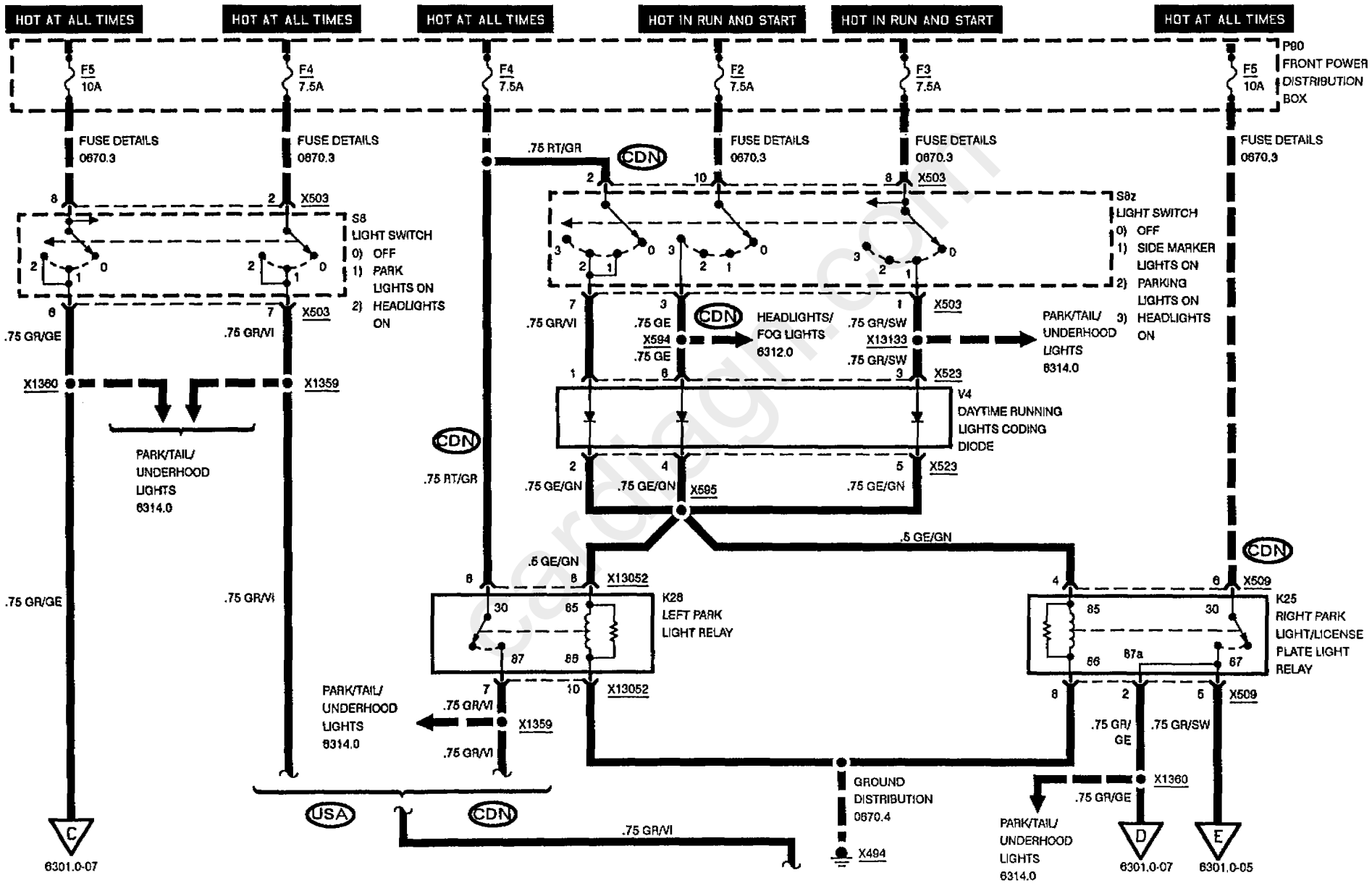
BRAKE LIGHTS, LICENSE PLATE LIGHTS



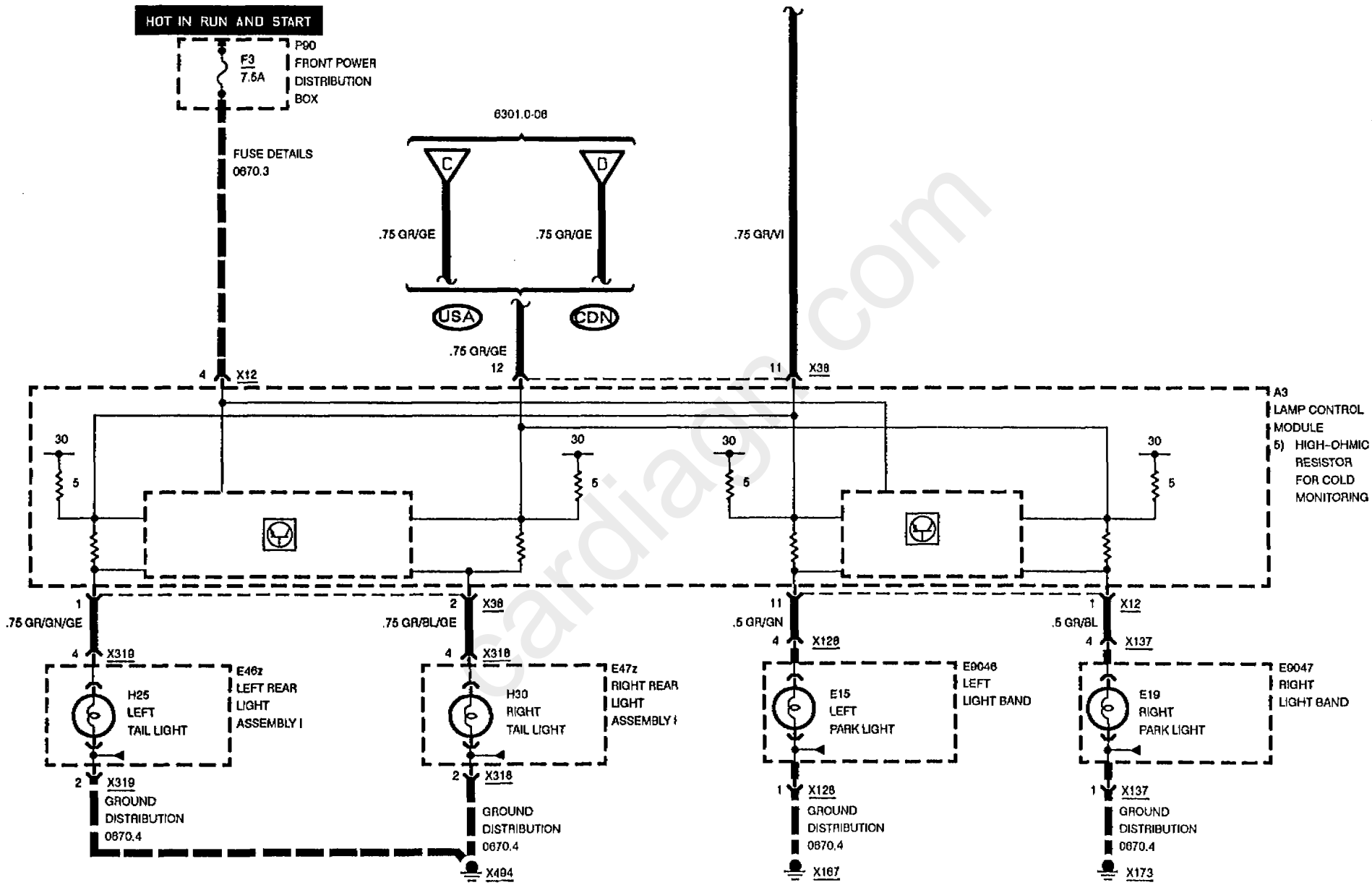
carDiagn.com

LAMP MONITOR (LKM)

PARKING LIGHTS



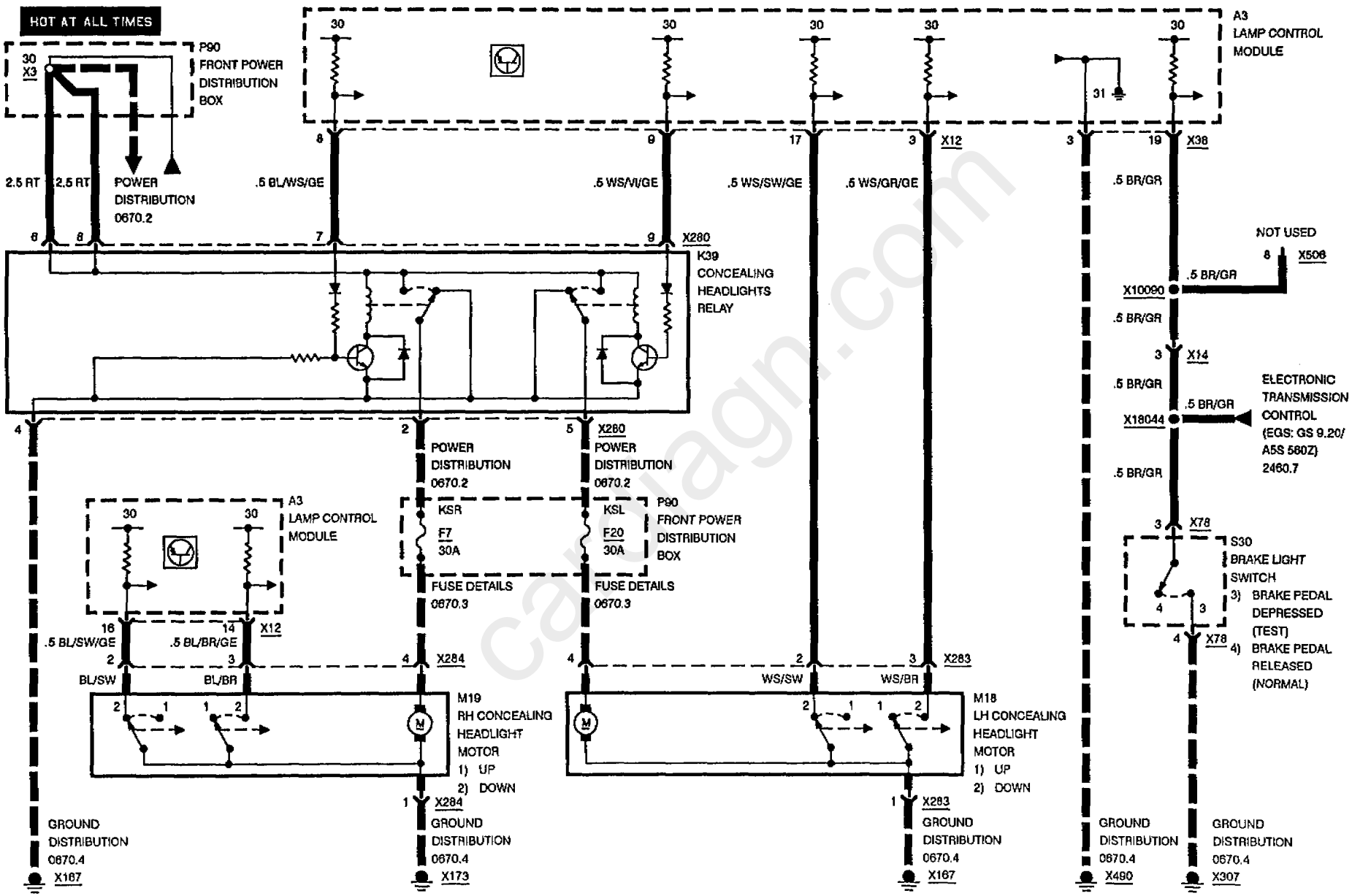
cardiagn.com



cardiagn.com

LAMP MONITOR (LKM)

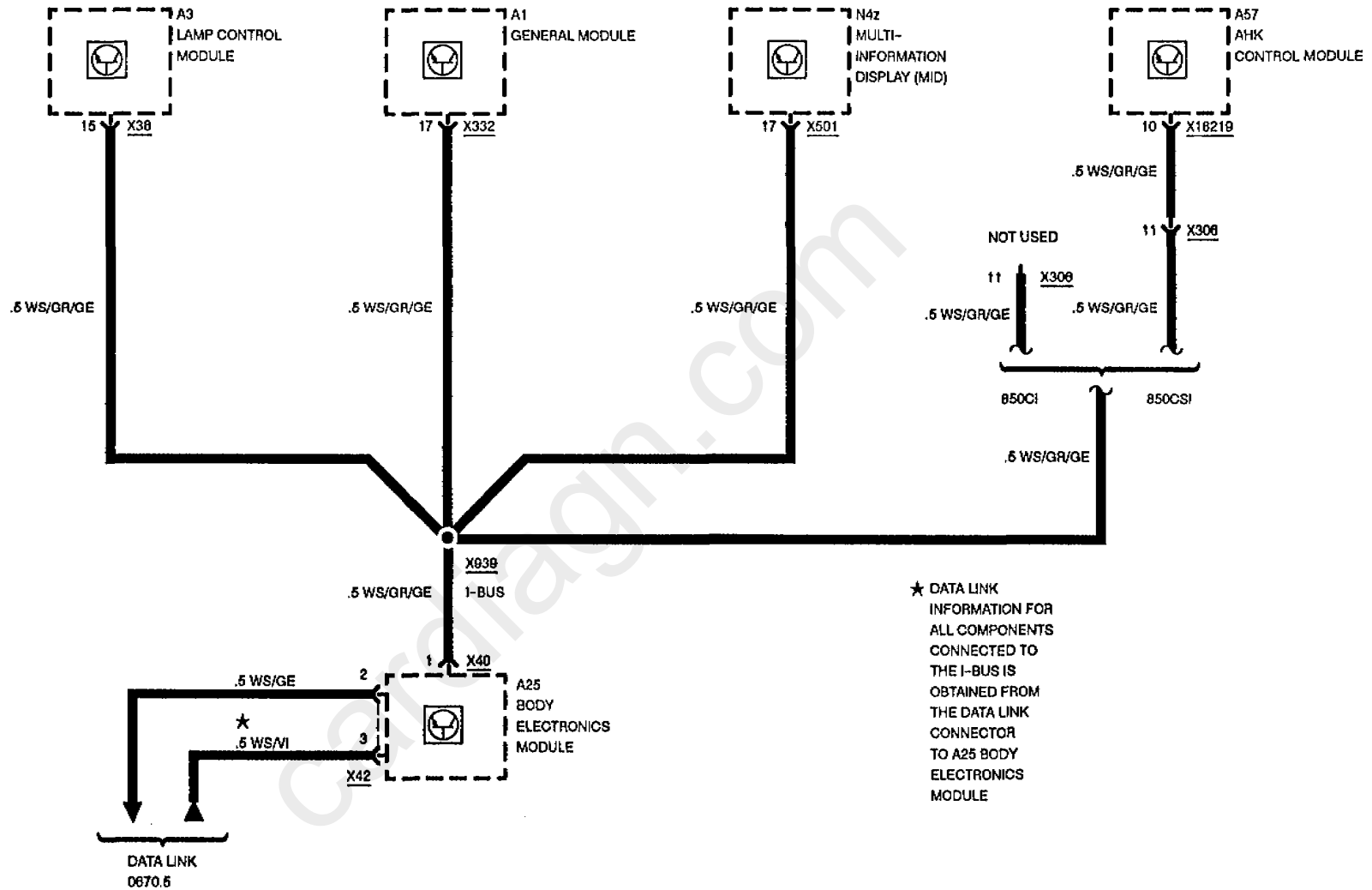
M60 HARNESS



carlagn.com

LAMP MONITOR (LKM)

INSTRUMENTATION BUS (I-BUS)

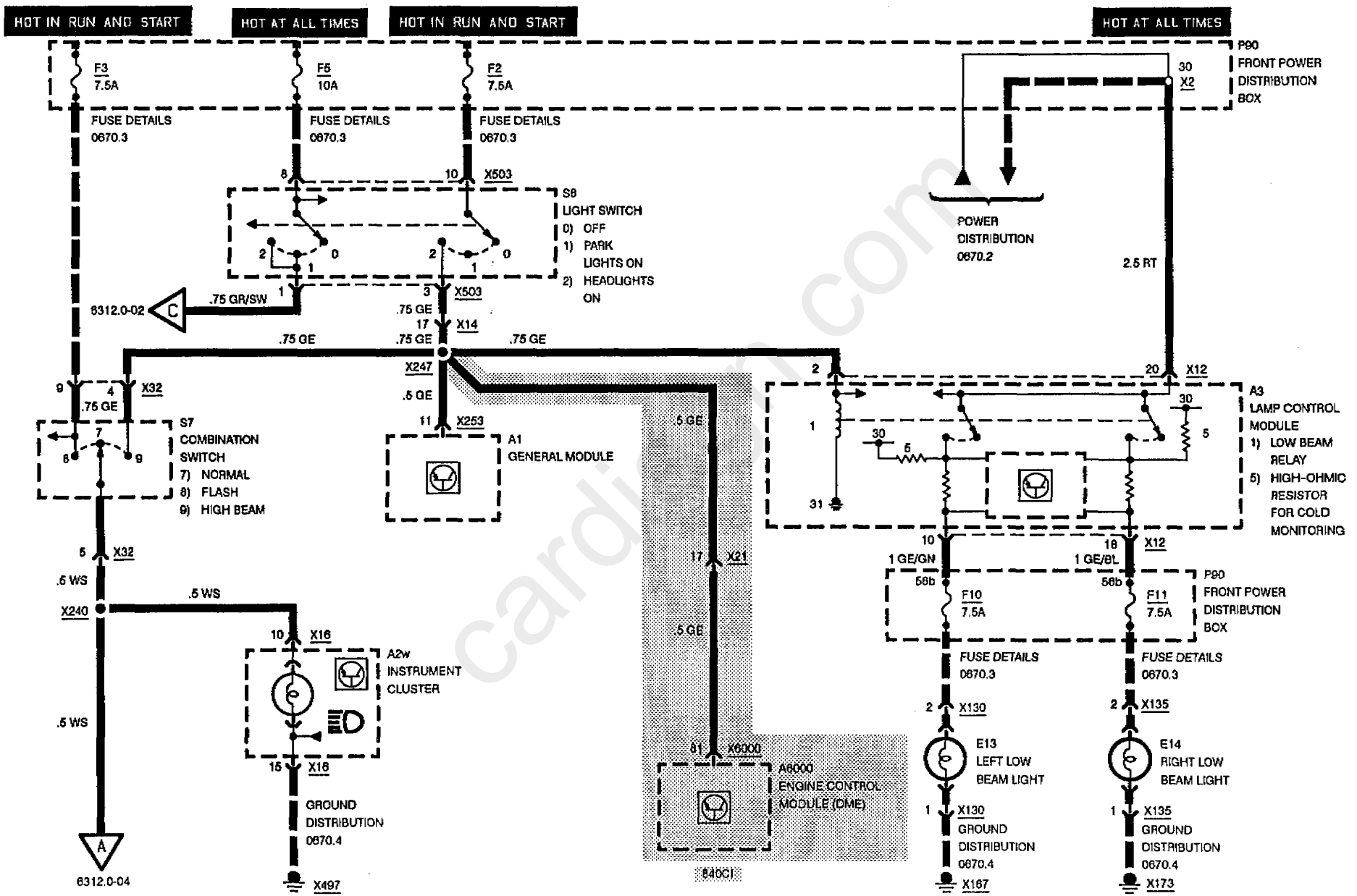


cardiagn.com

HEADLIGHTS/ FOG LIGHTS

USA

HEADLIGHTS

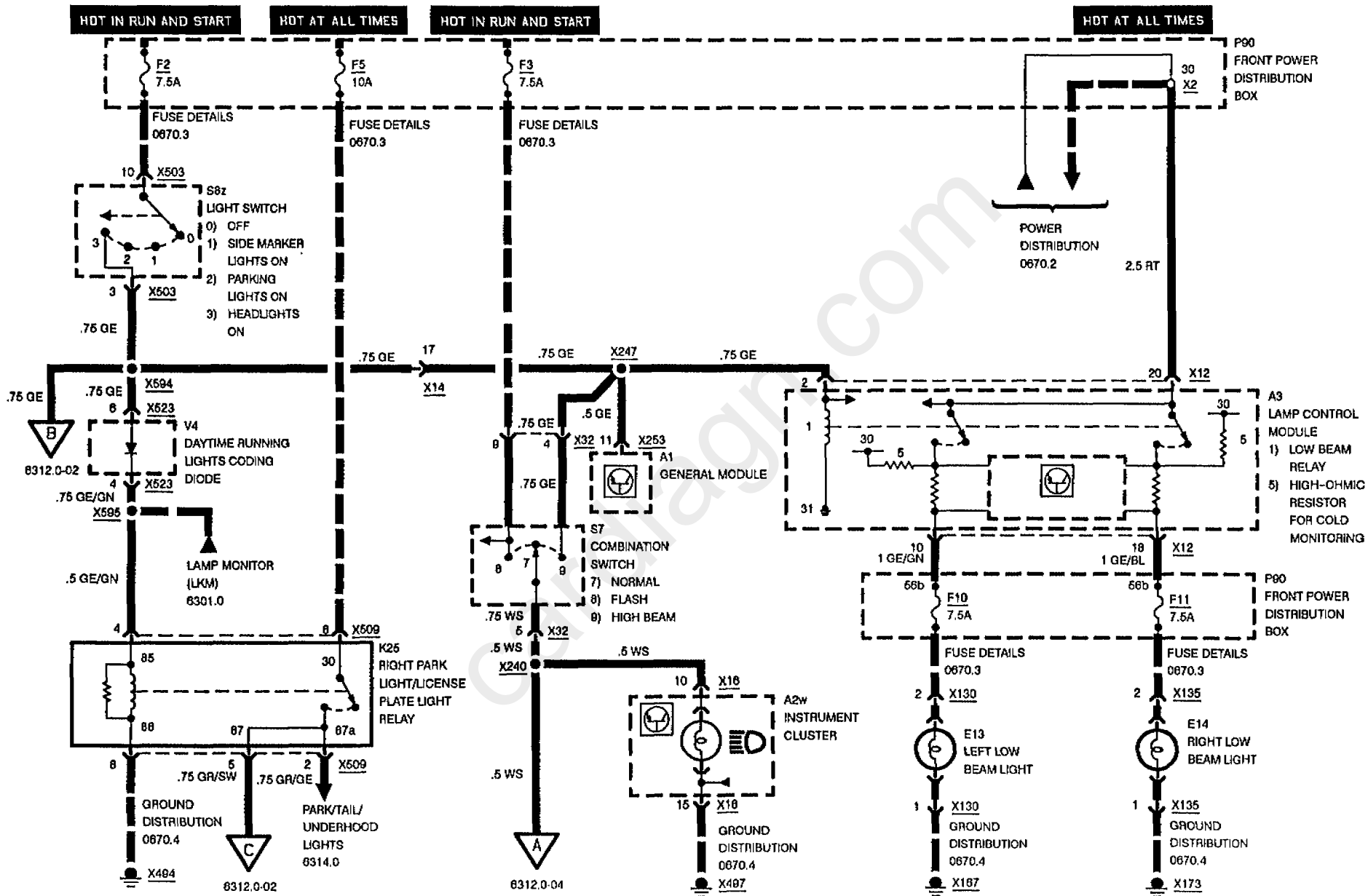


cardiagn.com

HEADLIGHTS/ FOG LIGHTS

CDN

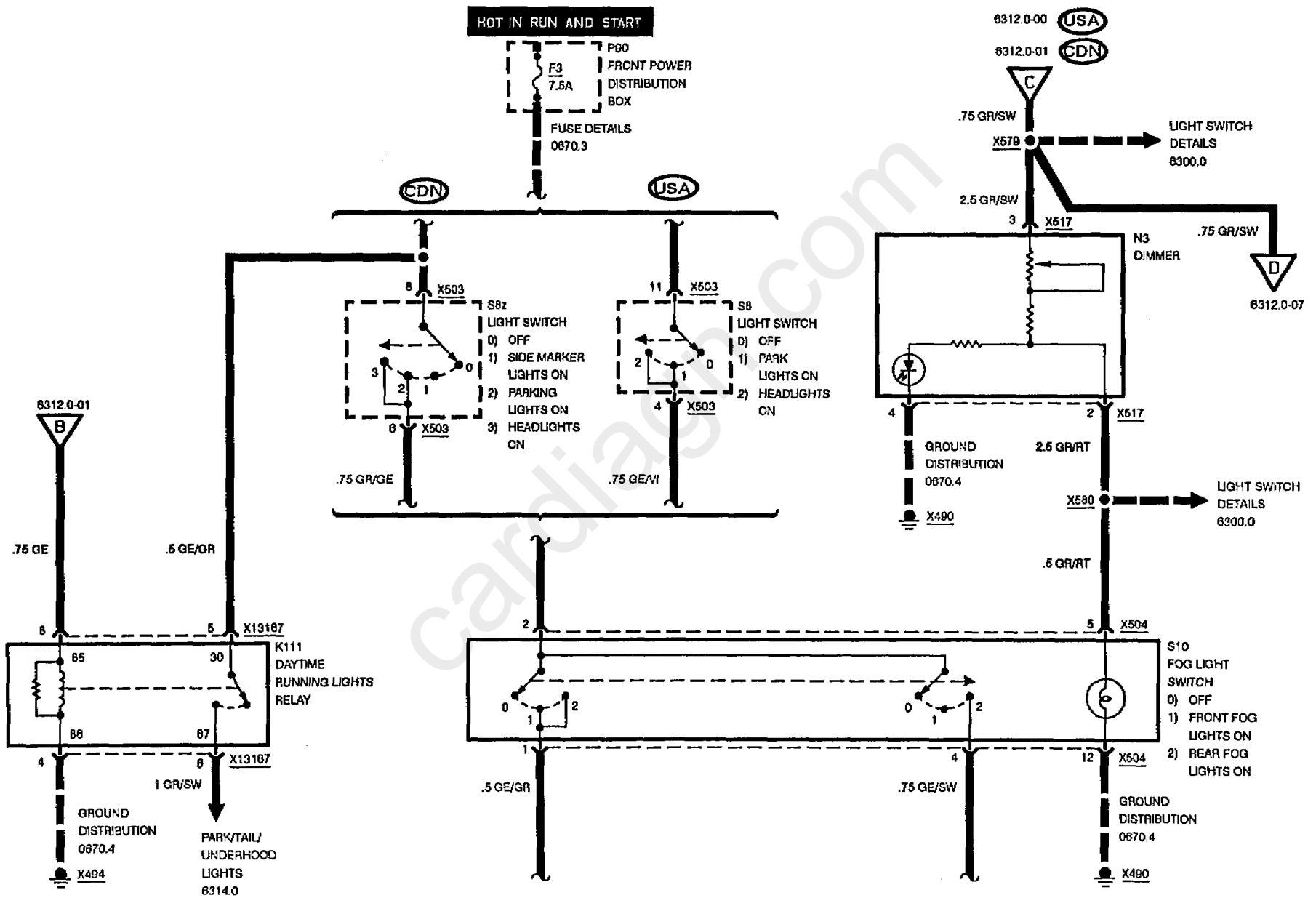
HEADLIGHTS



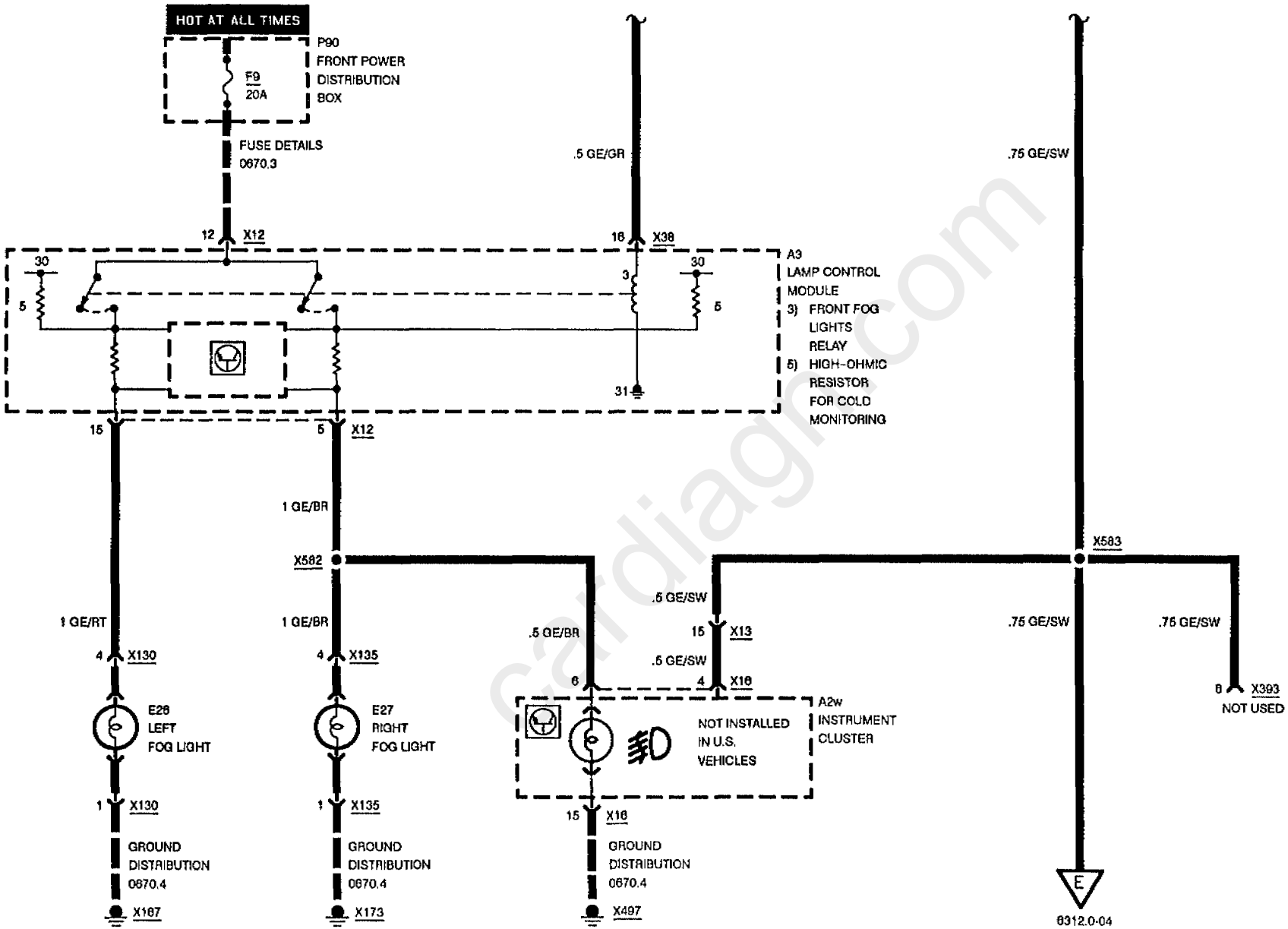
carmagn.com

HEADLIGHTS/ FOG LIGHTS

FRONT FOG LIGHTS



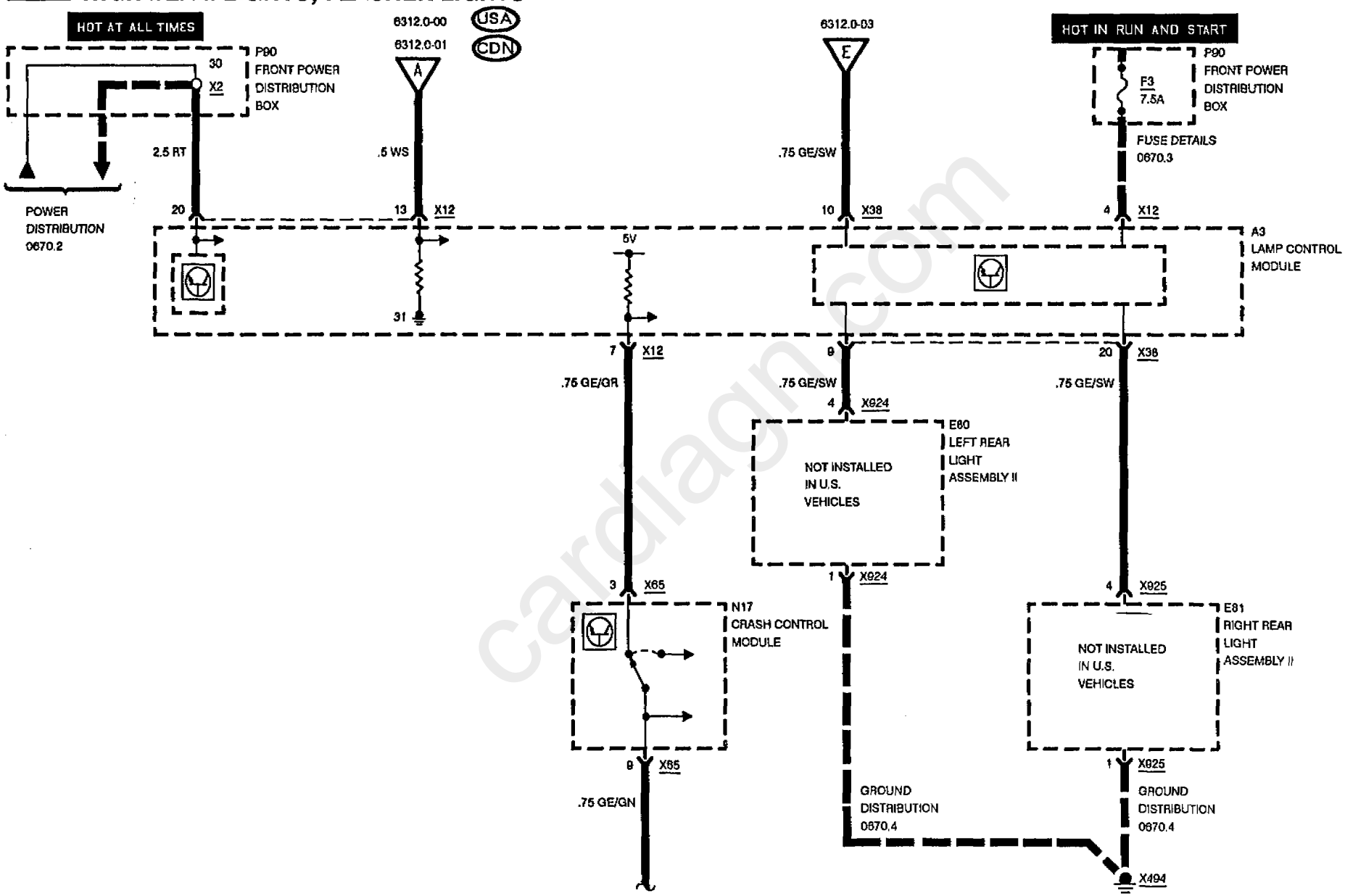
cardiagn.com



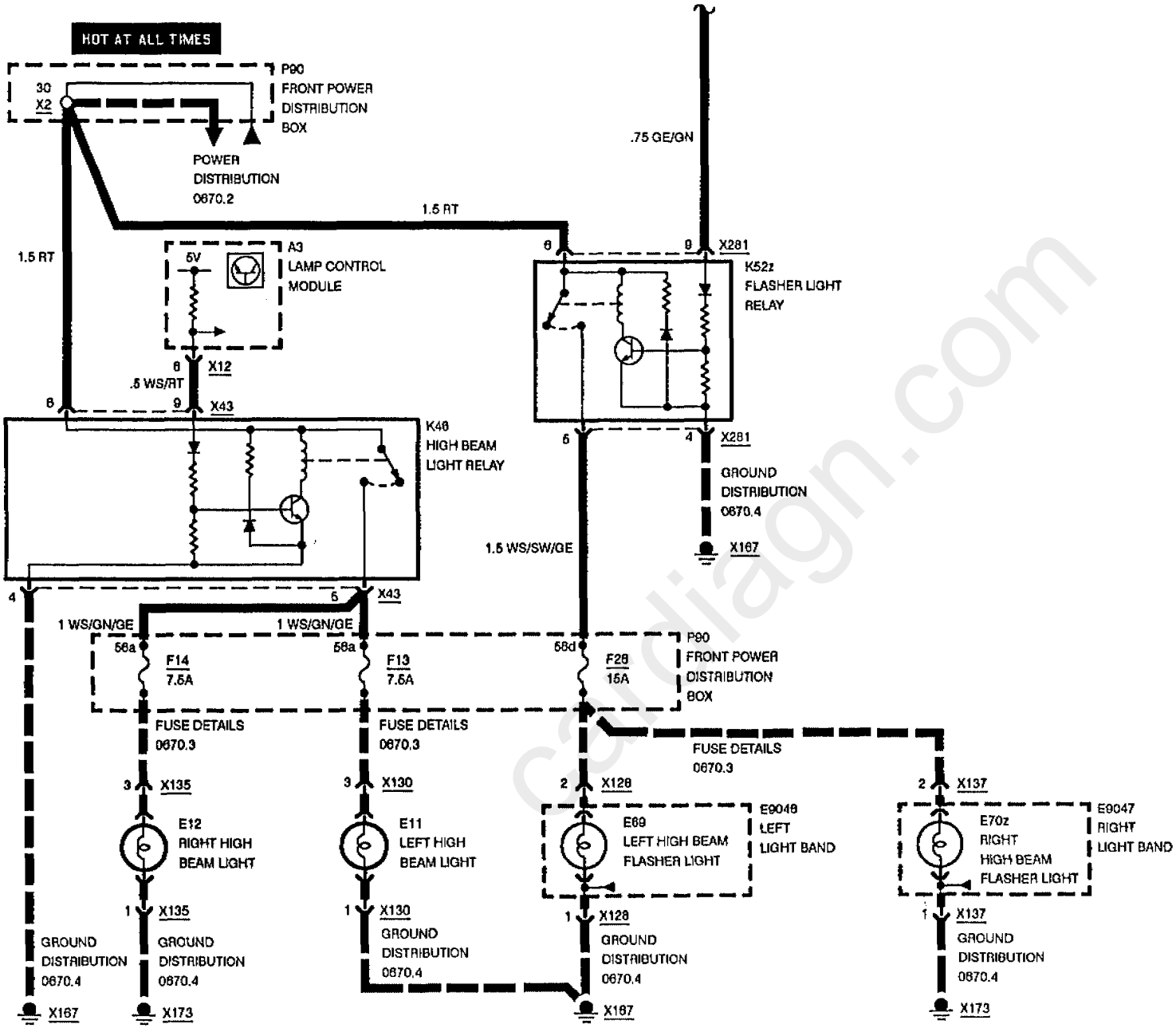
cardiagn.com

HEADLIGHTS/ FOG LIGHTS

HIGH BEAM LIGHTS, FLASHER LIGHTS

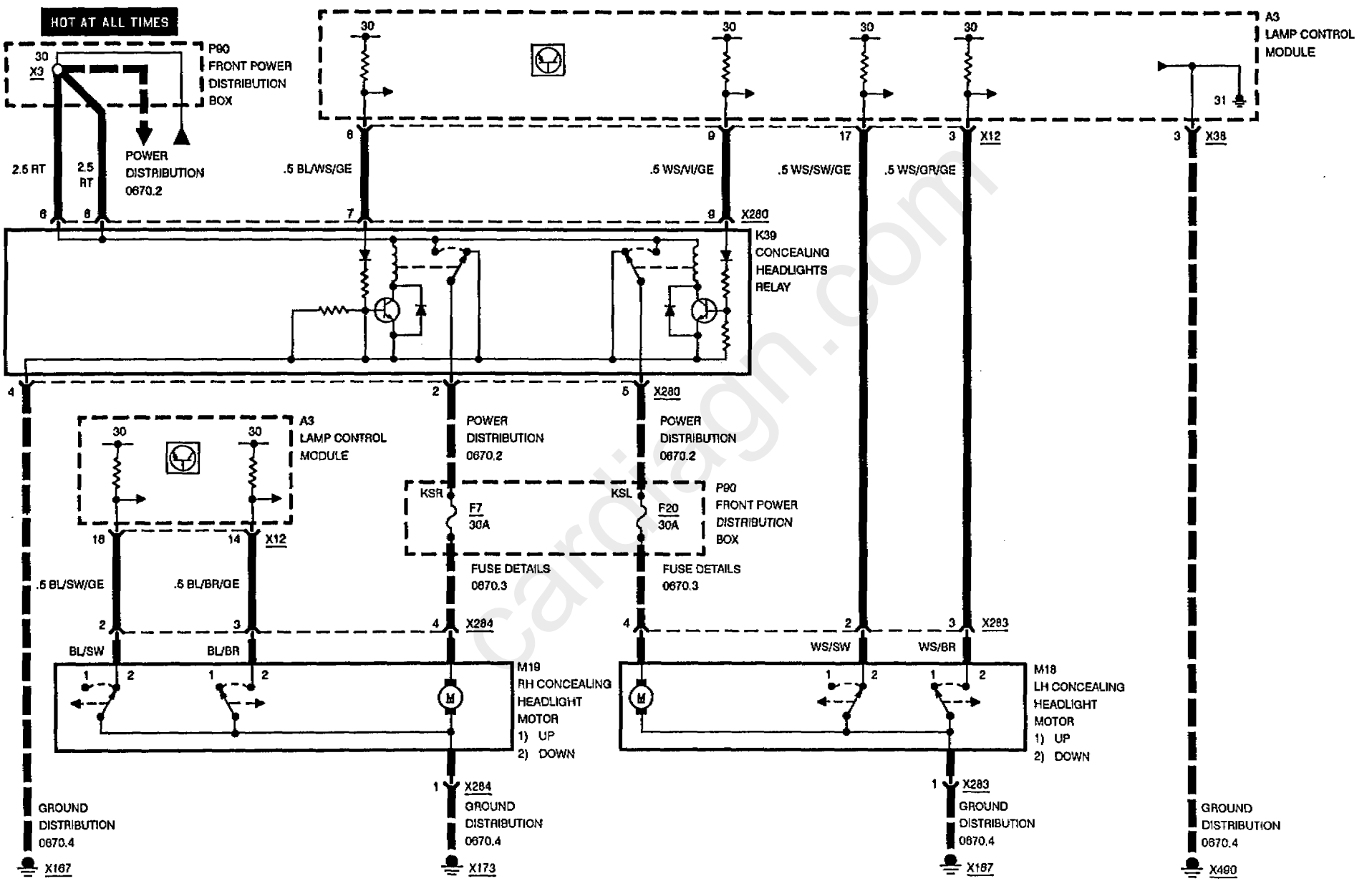


cardiagn.com



cardiagn.com

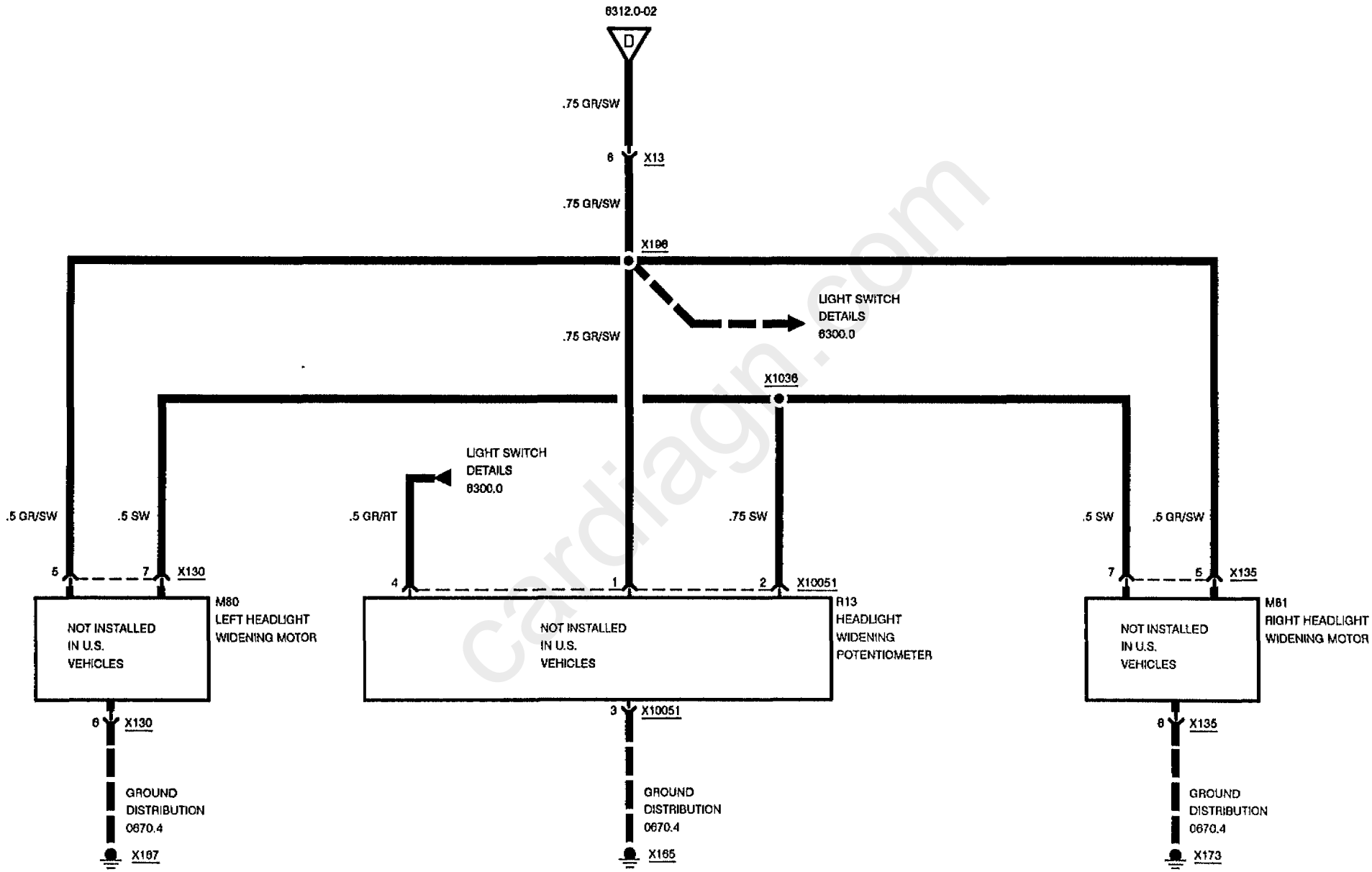
HEADLIGHTS/ FOG LIGHTS



cardiagn.com

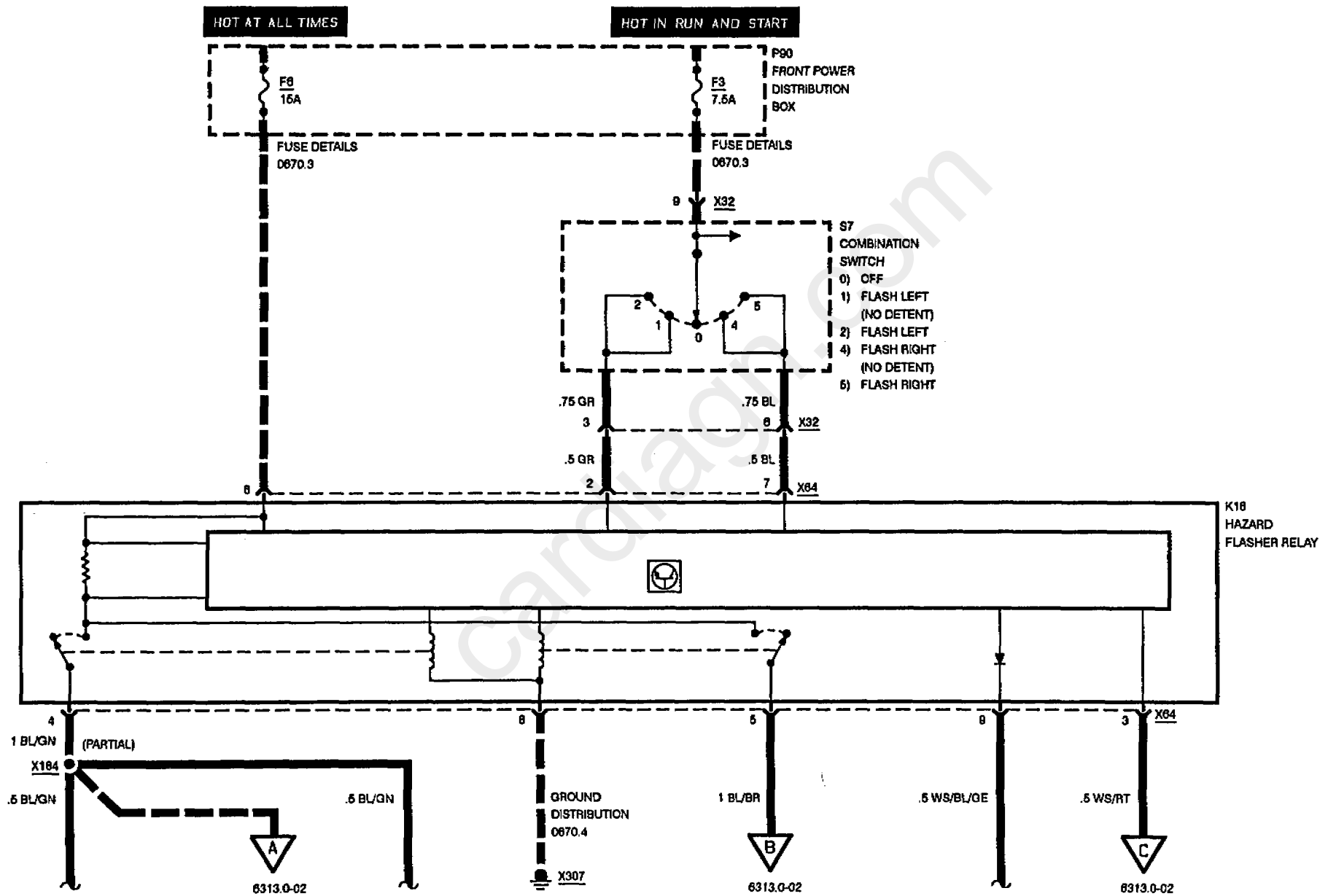
HEADLIGHTS/ FOG LIGHTS

HEADLIGHT BEAM ANGLE ADJUST

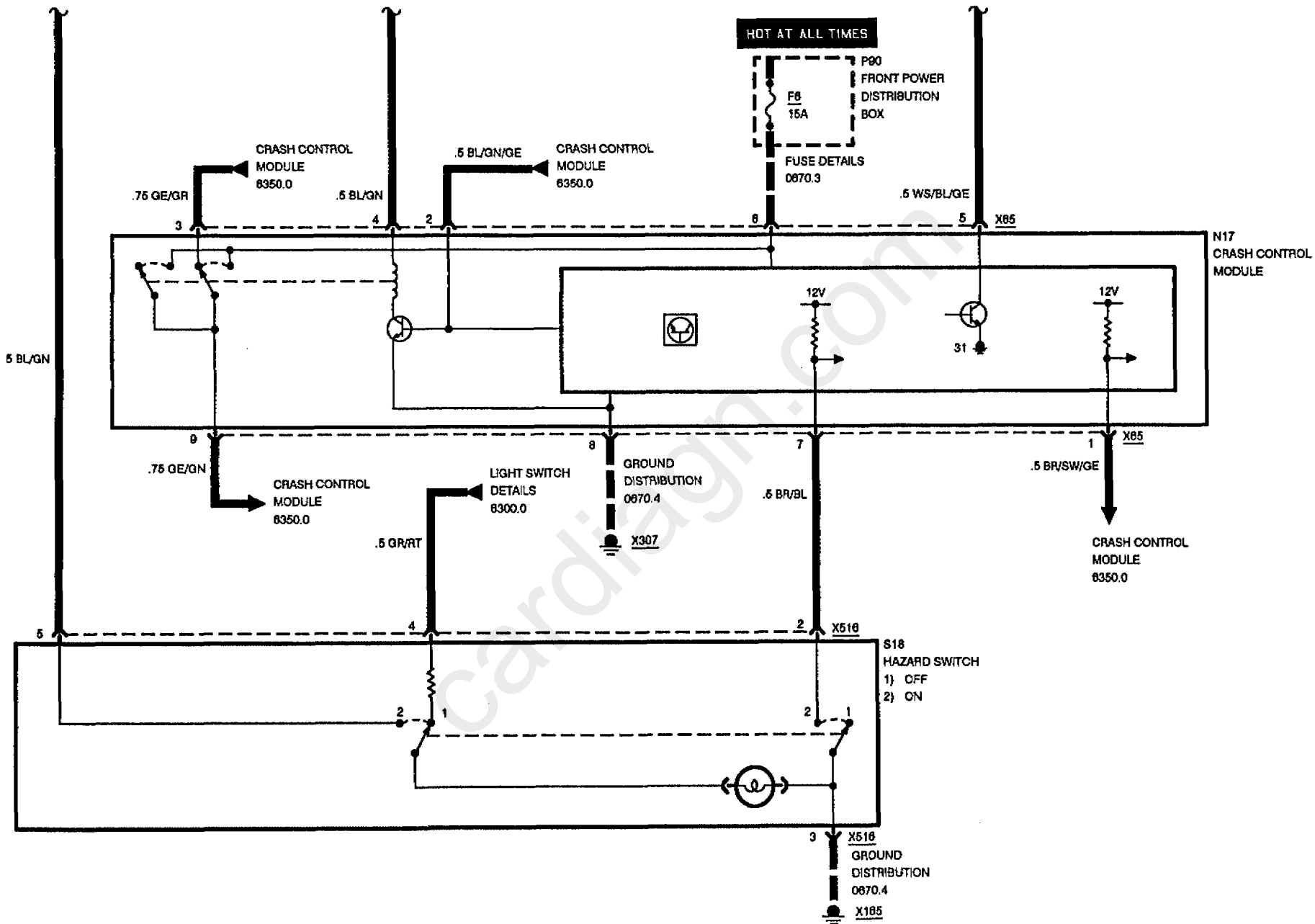


cardiagn.com

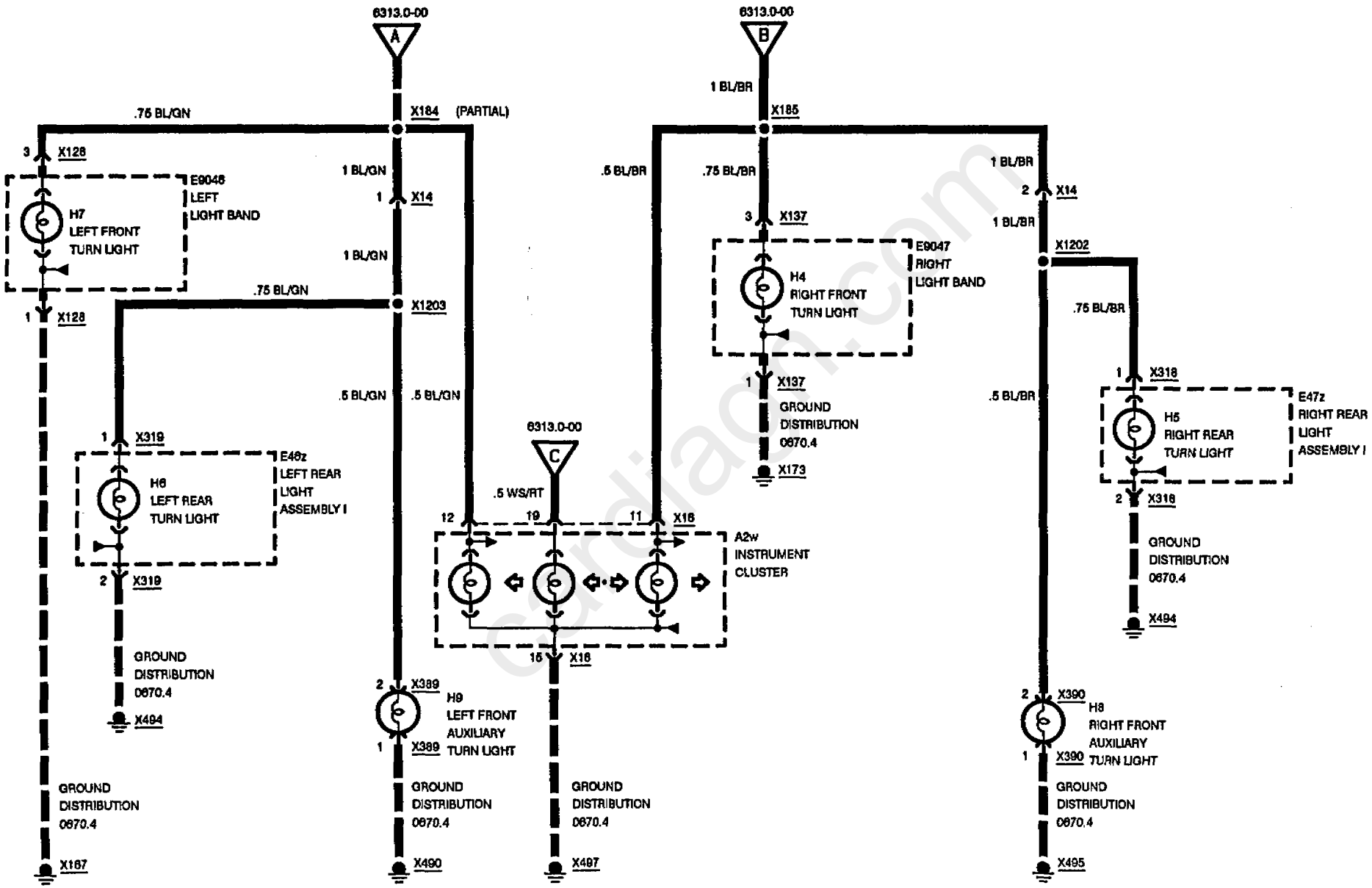
TURN/HAZARD LIGHTS



cardiagn.com


HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F6
15A
FUSE DETAILS
0670.3
.75 GE/GR
CRASH CONTROL
MODULE
6350.0
.5 BL/GN
.5 BL/GN/GE
CRASH CONTROL
MODULE
6350.0
.5 WS/BL/GE
X65
N17
CRASH CONTROL
MODULE
12V
31
12V
5 BL/GN
.75 GE/GN
CRASH CONTROL
MODULE
6350.0
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
GROUND
DISTRIBUTION
0670.4
X307
.5 BR/BL
.5 BR/SW/GE
X65
CRASH CONTROL
MODULE
6350.0
X516
S18
HAZARD SWITCH
1) OFF
2) ON
X516
GROUND
DISTRIBUTION
0670.4
X165

TURN/HAZARD LIGHTS

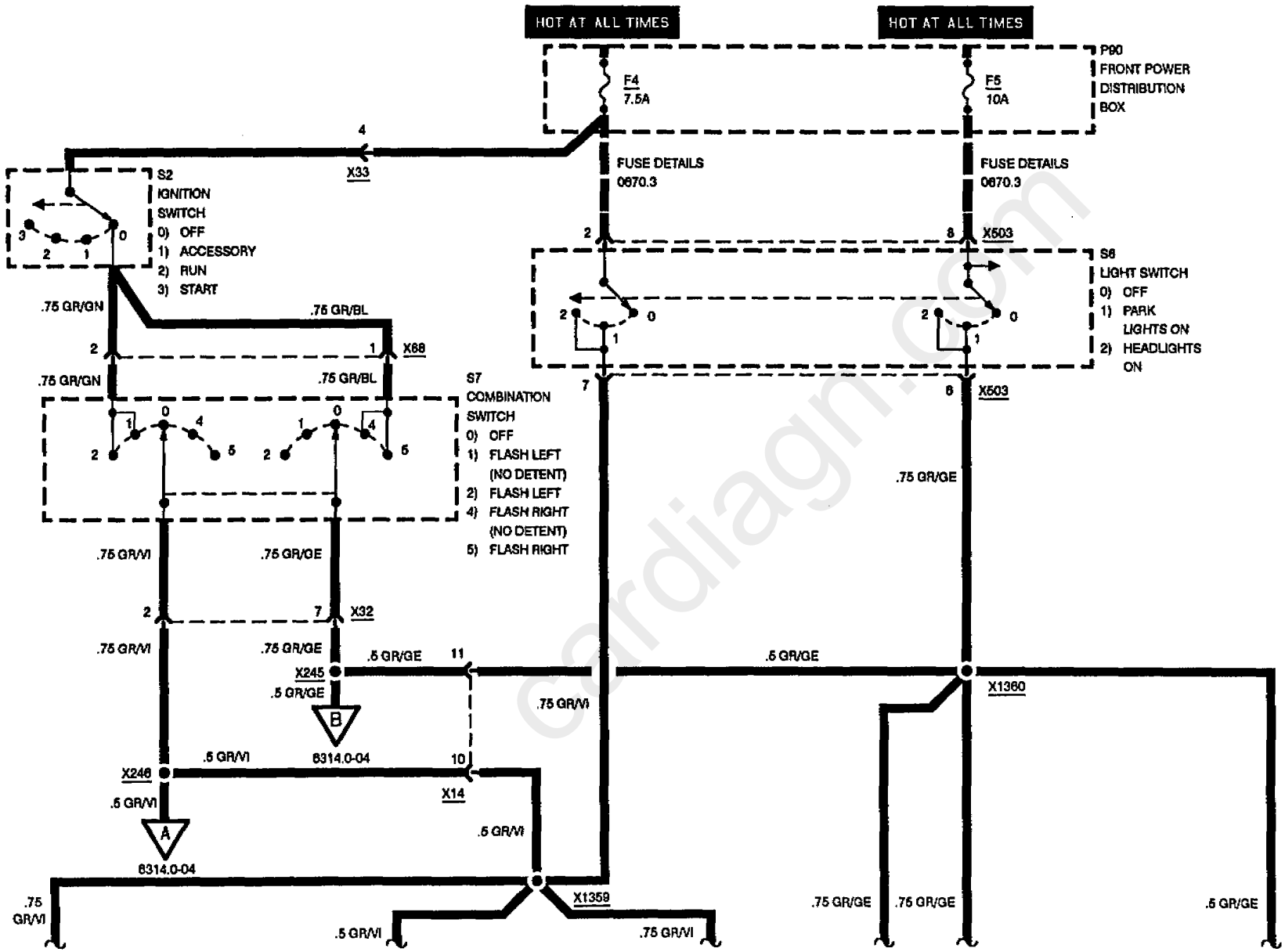


cardiagn.com

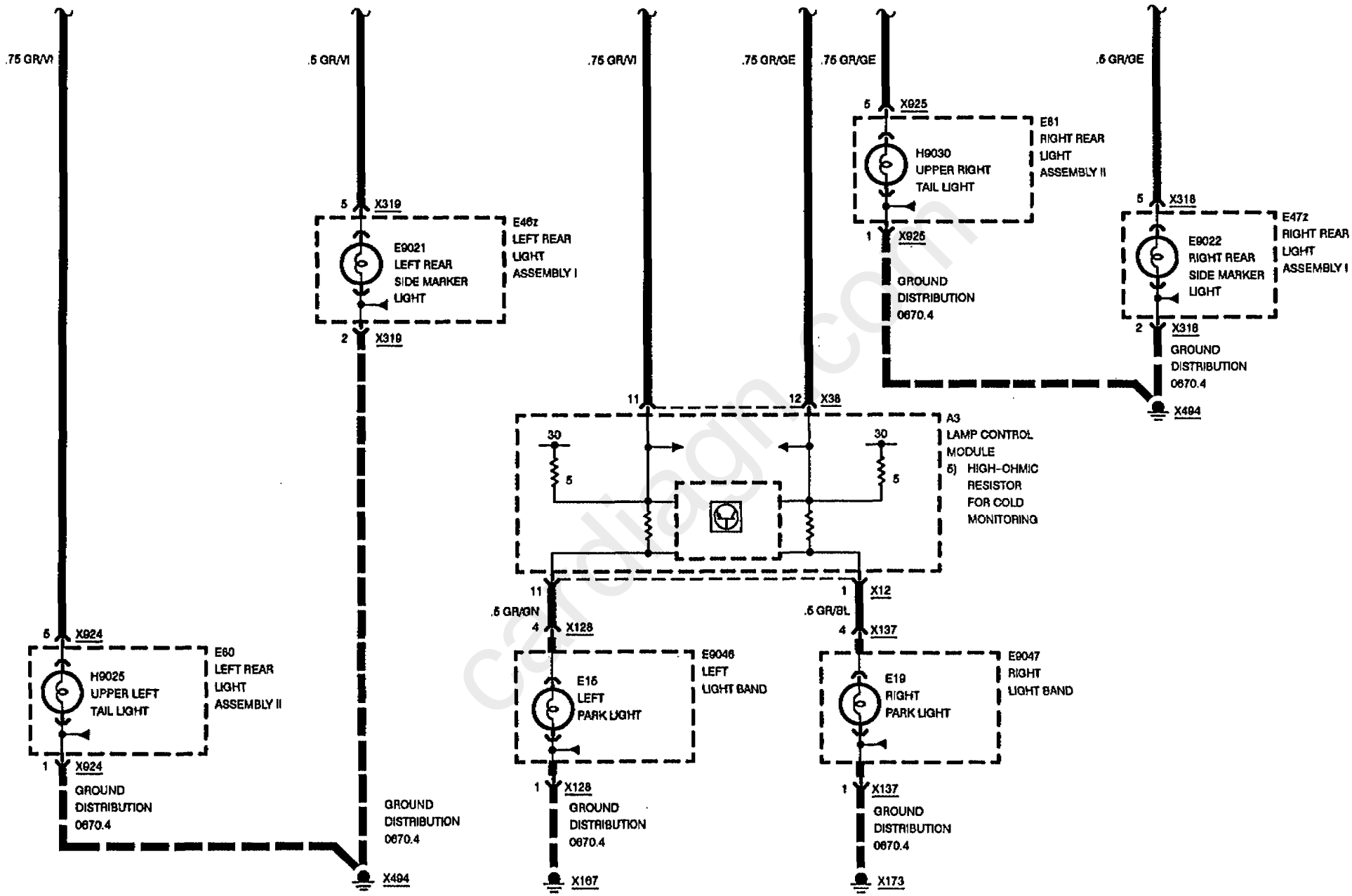
cardiagn.com

PARK/TAIL/ UNDERHOOD LIGHTS

USA

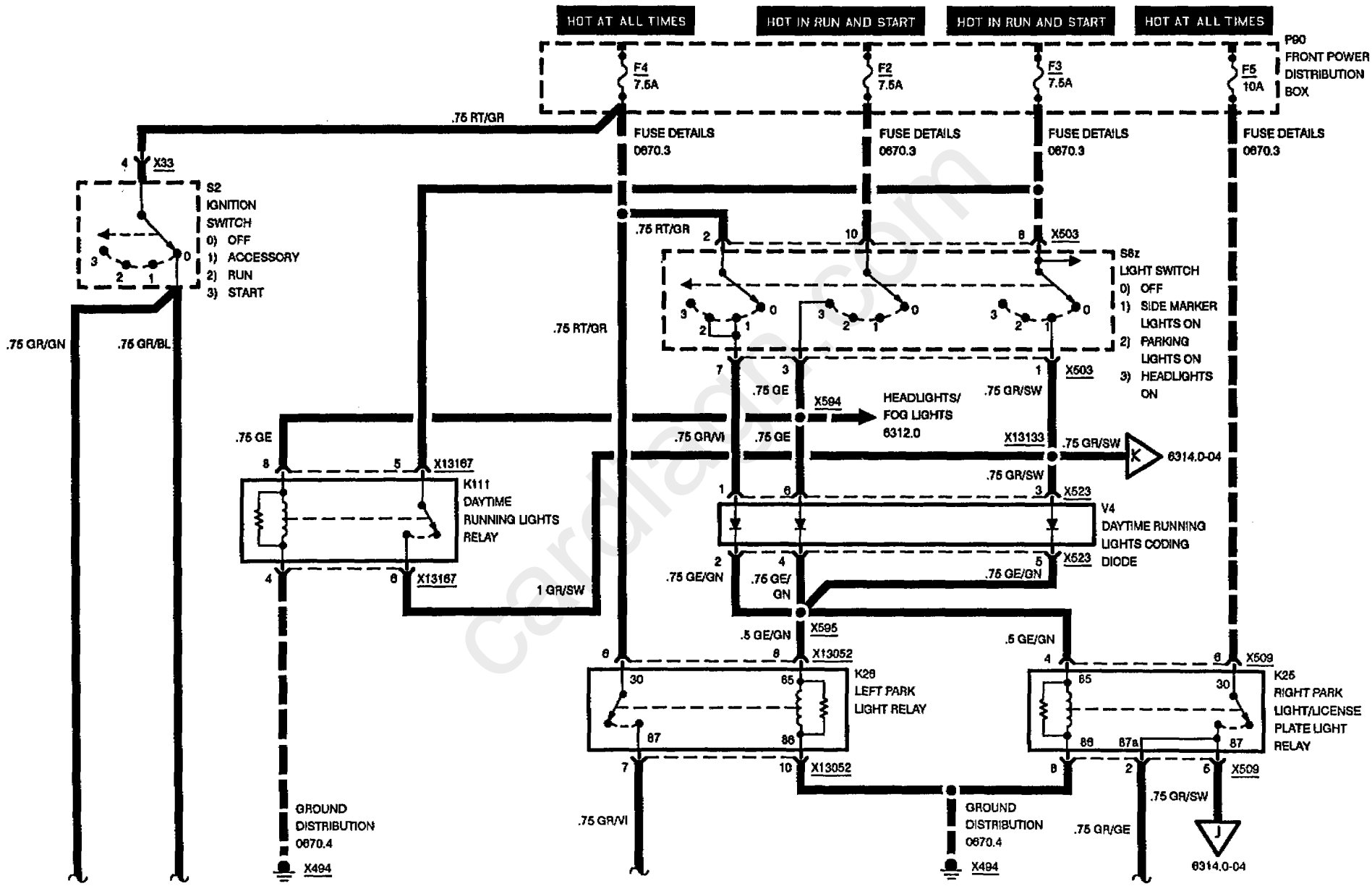


cardiagn.com

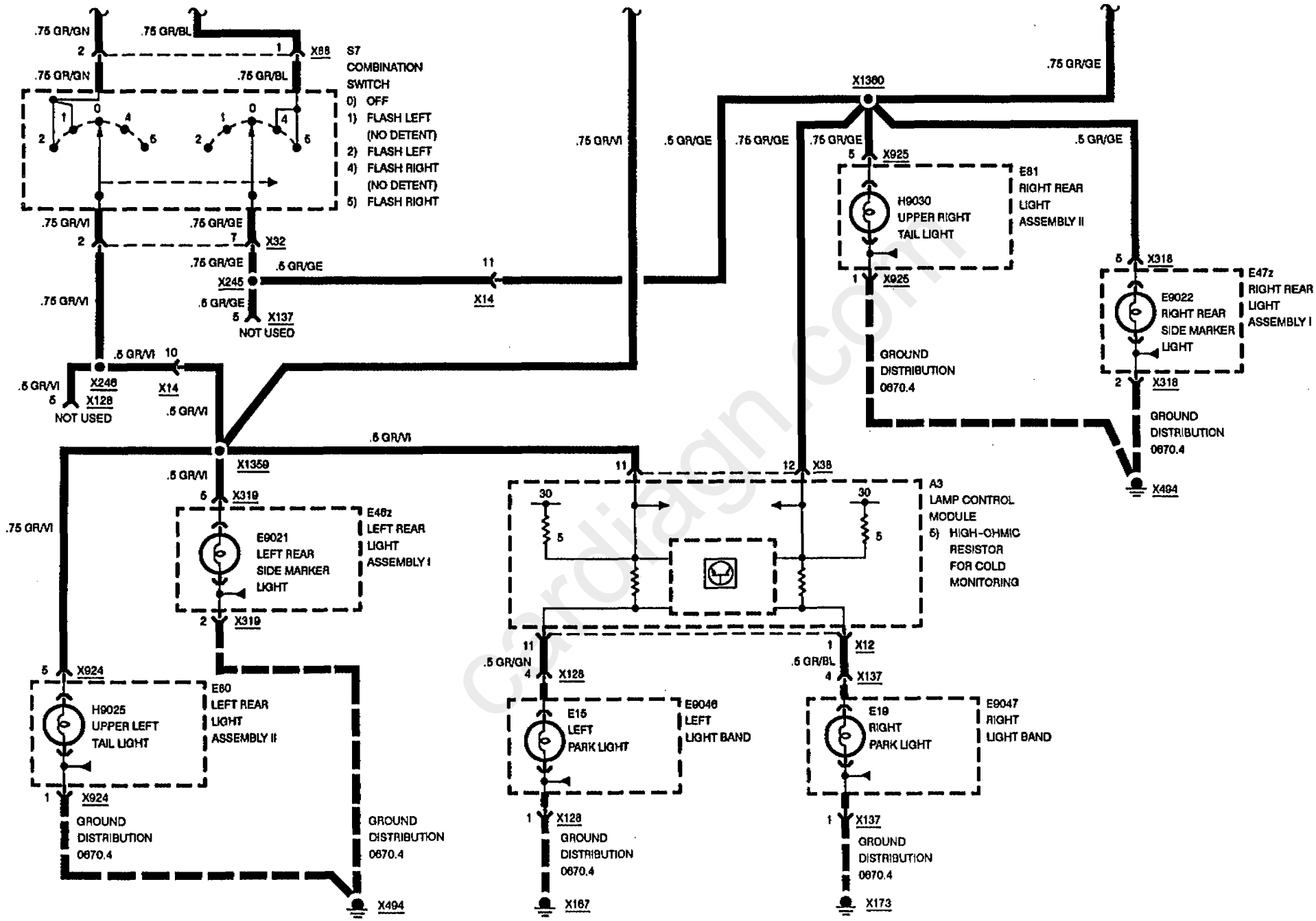


cardiagn.com

PARK/TAIL/ UNDERHOOD LIGHTS

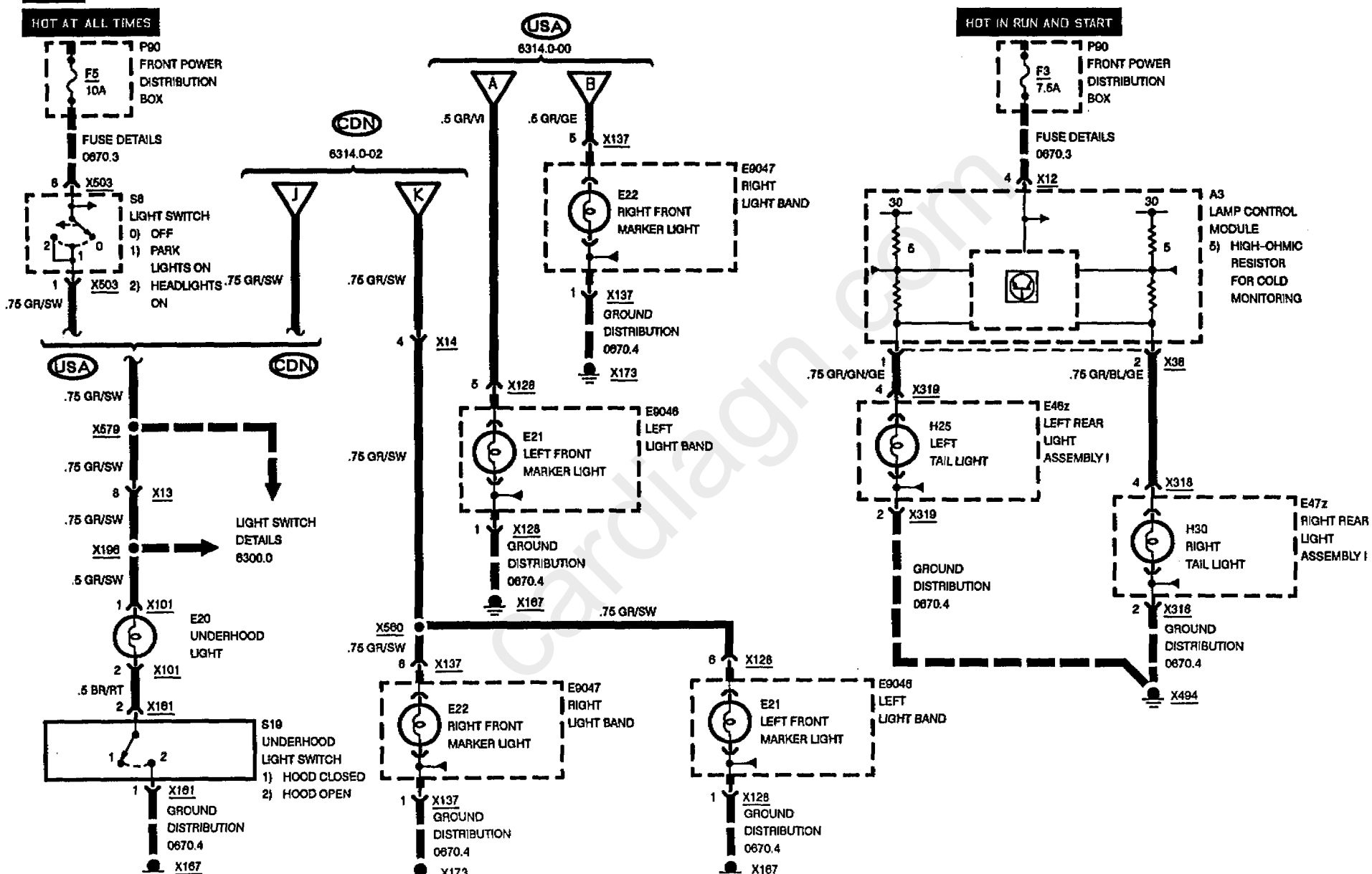


cardiagn.com



Gardiagn.com

PARK/TAIL/ UNDERHOOD LIGHTS

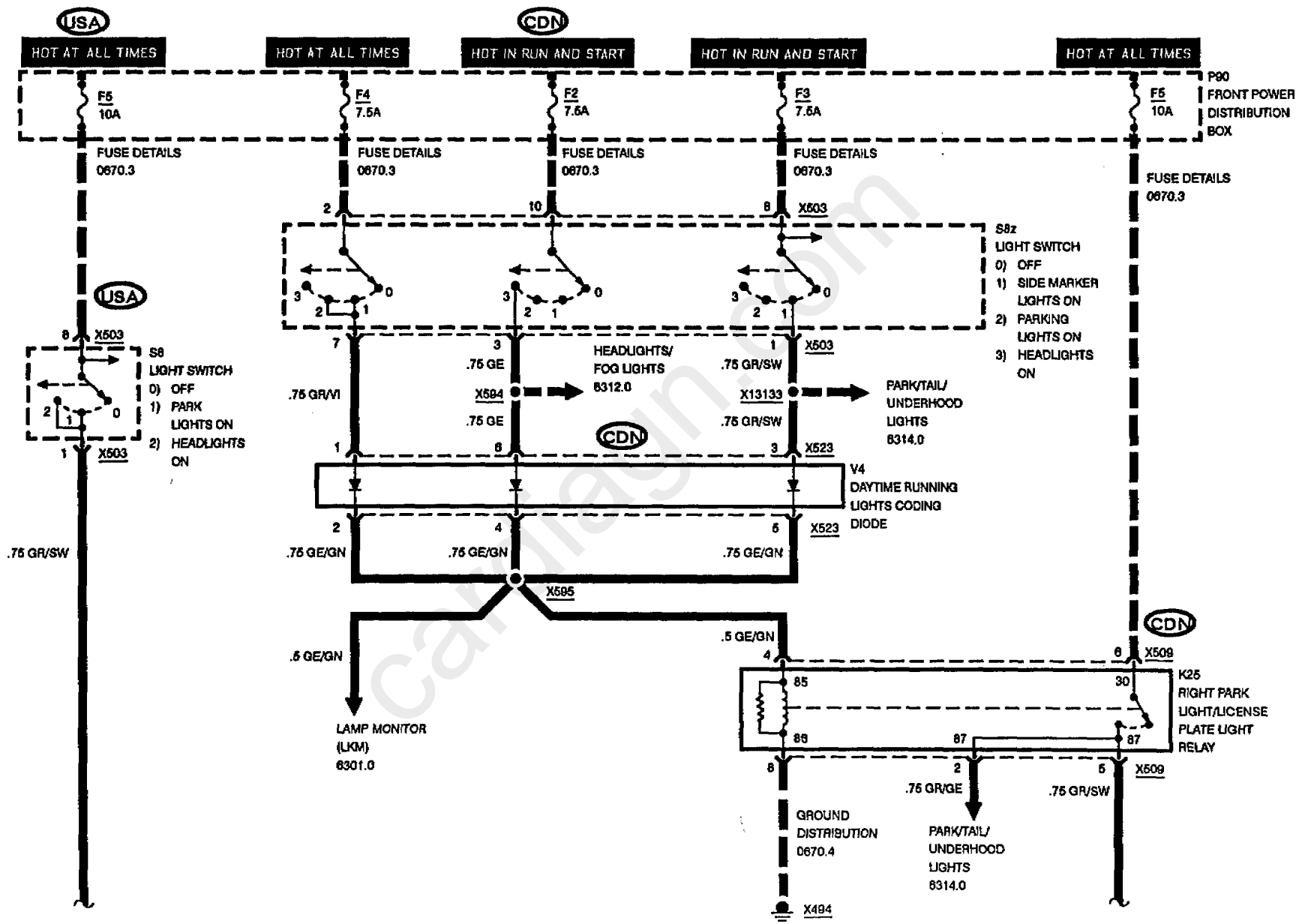


cardiagn.com

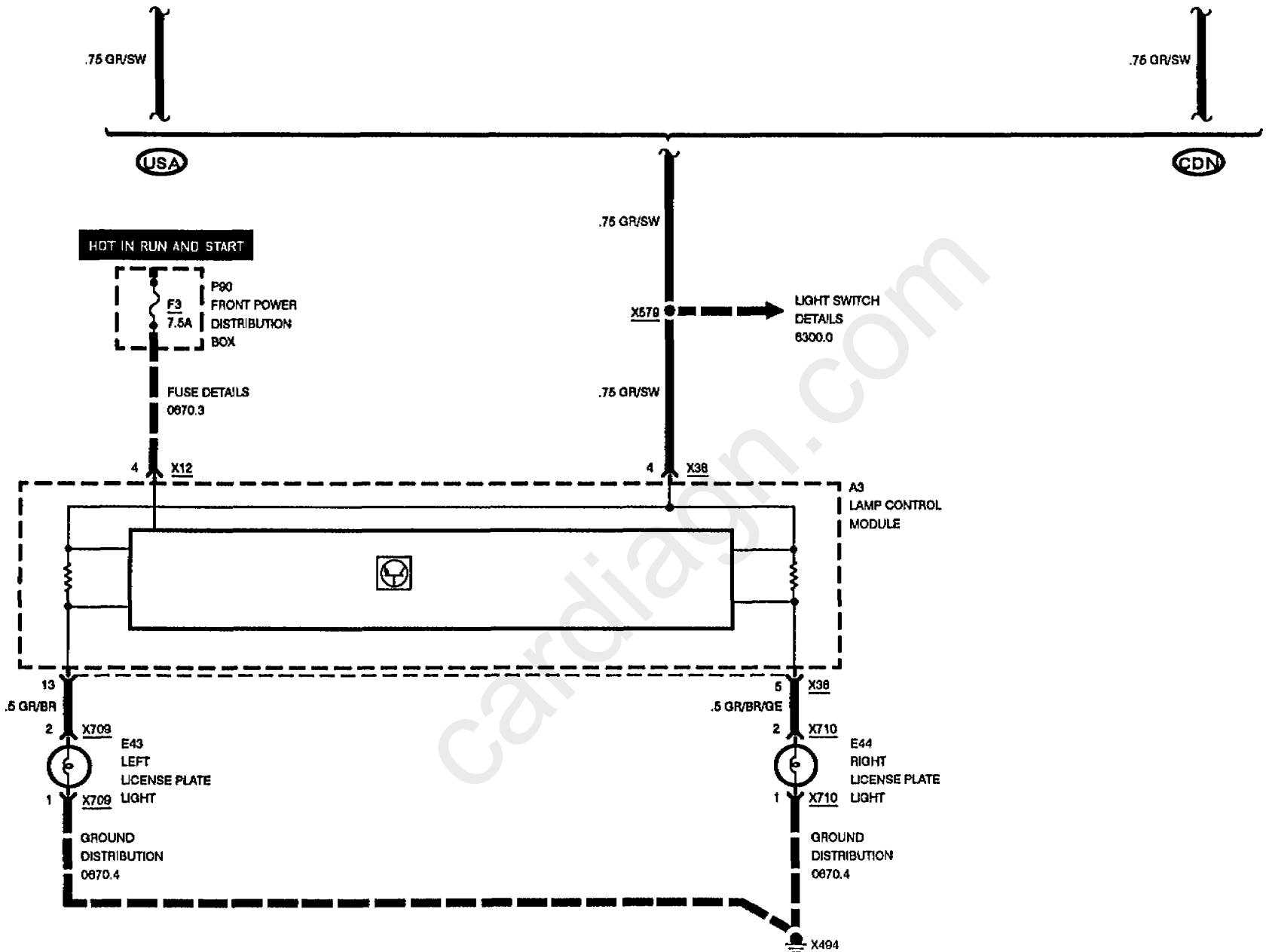
cardiagn.com

LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

LICENSE PLATE LIGHTS

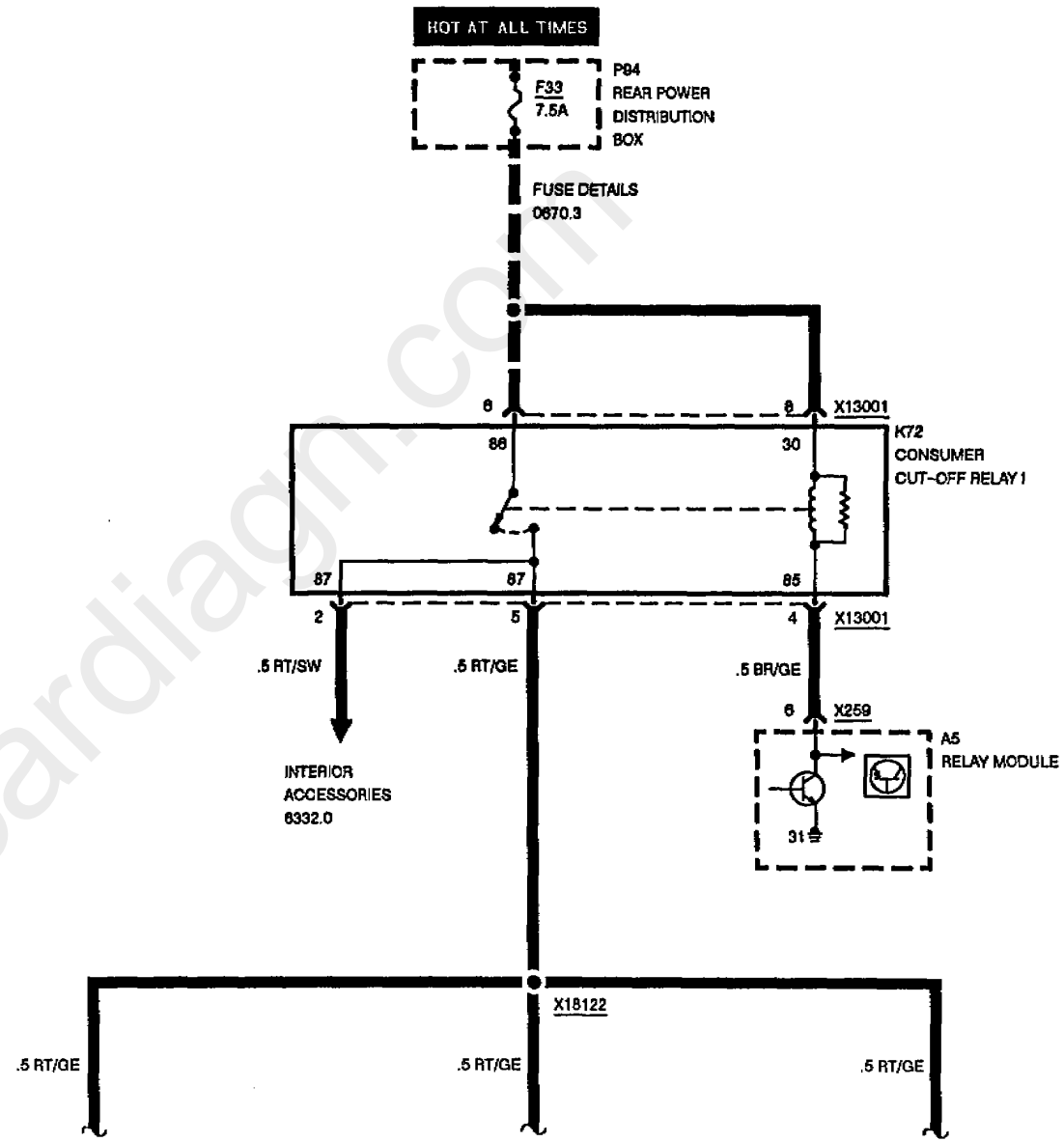


carmagn.com

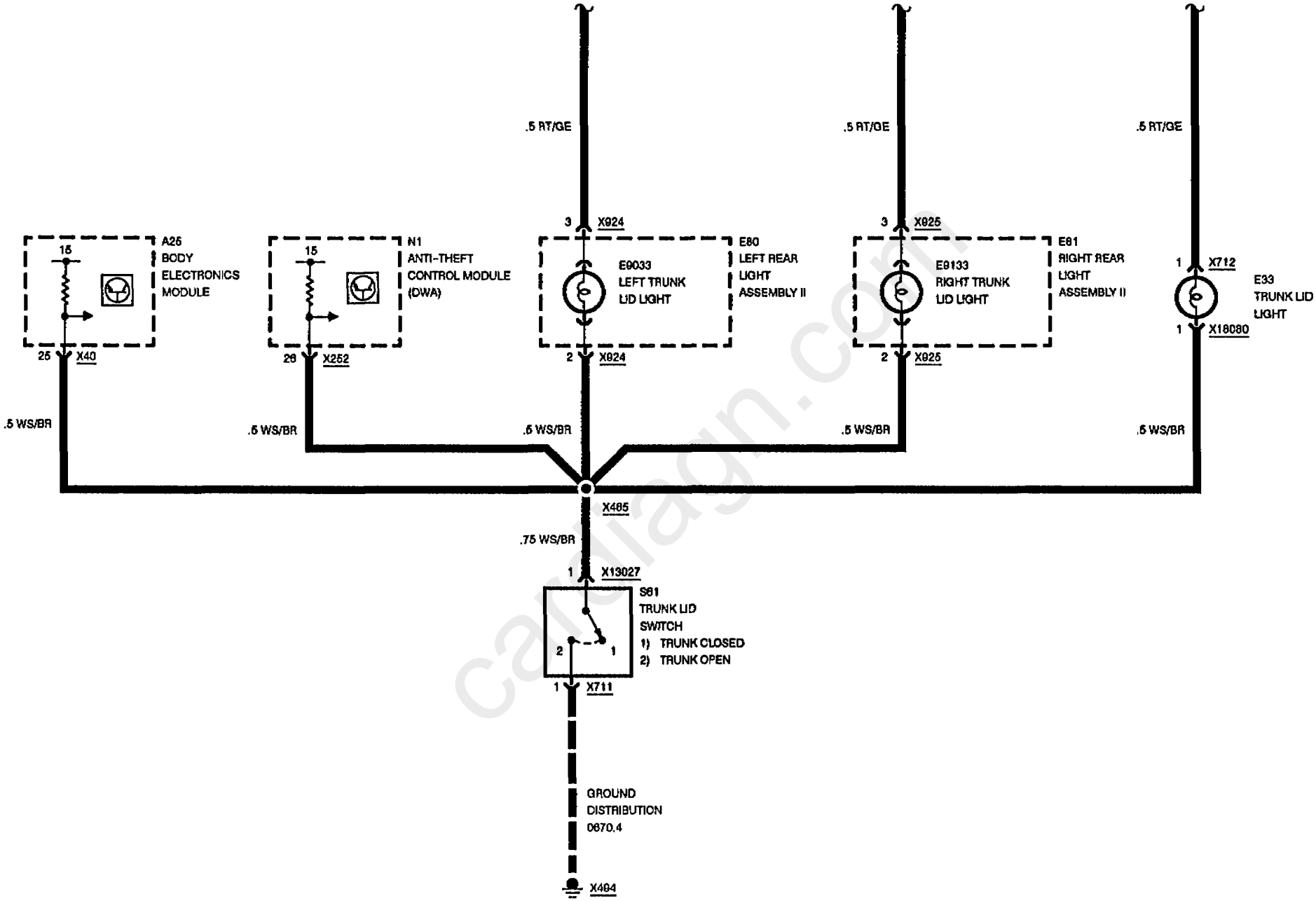


cardiagn.com

LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

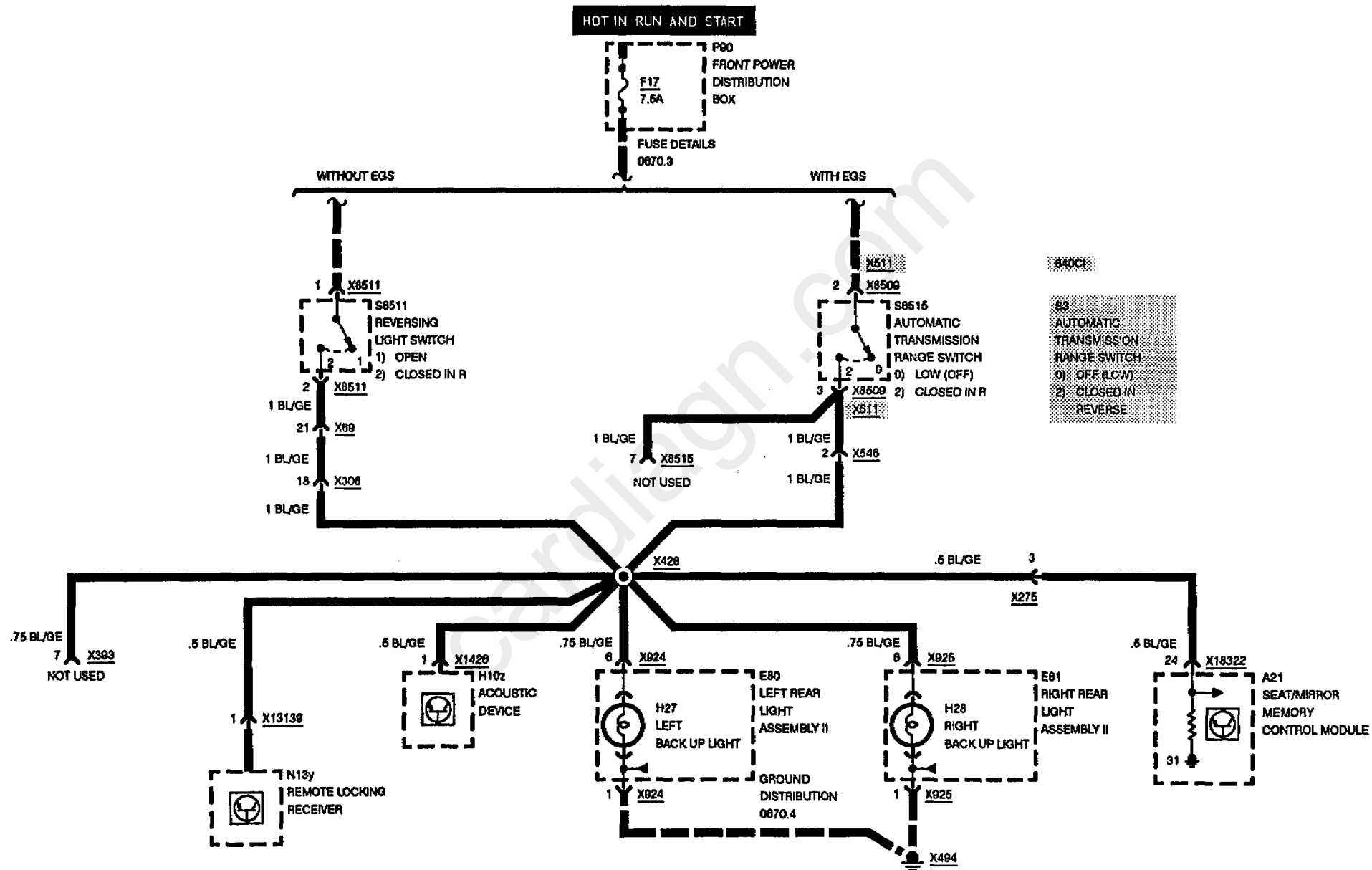


cardiagn.com



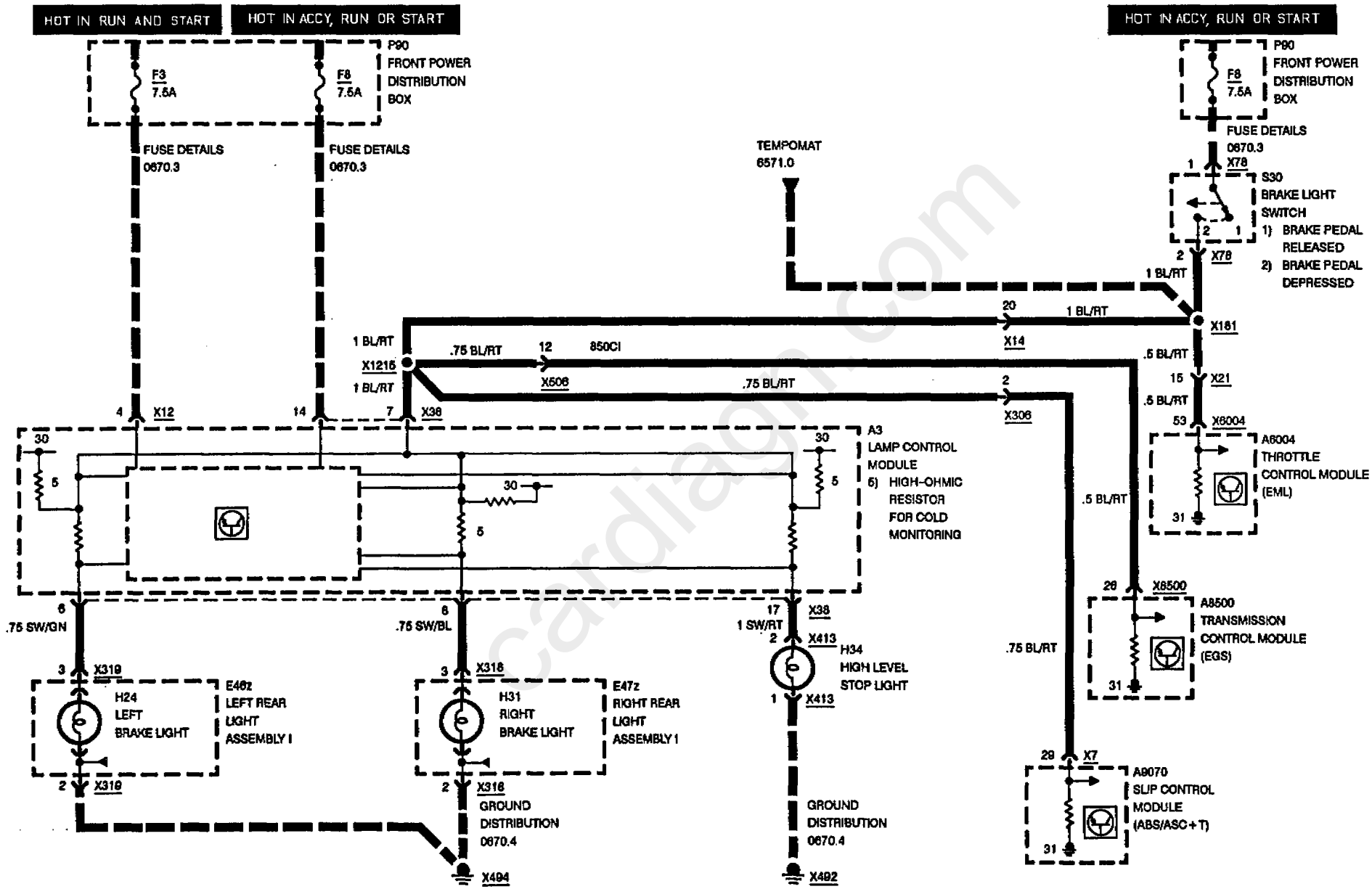
carDiagn.com

BACK UP LIGHTS



cardiagn.com

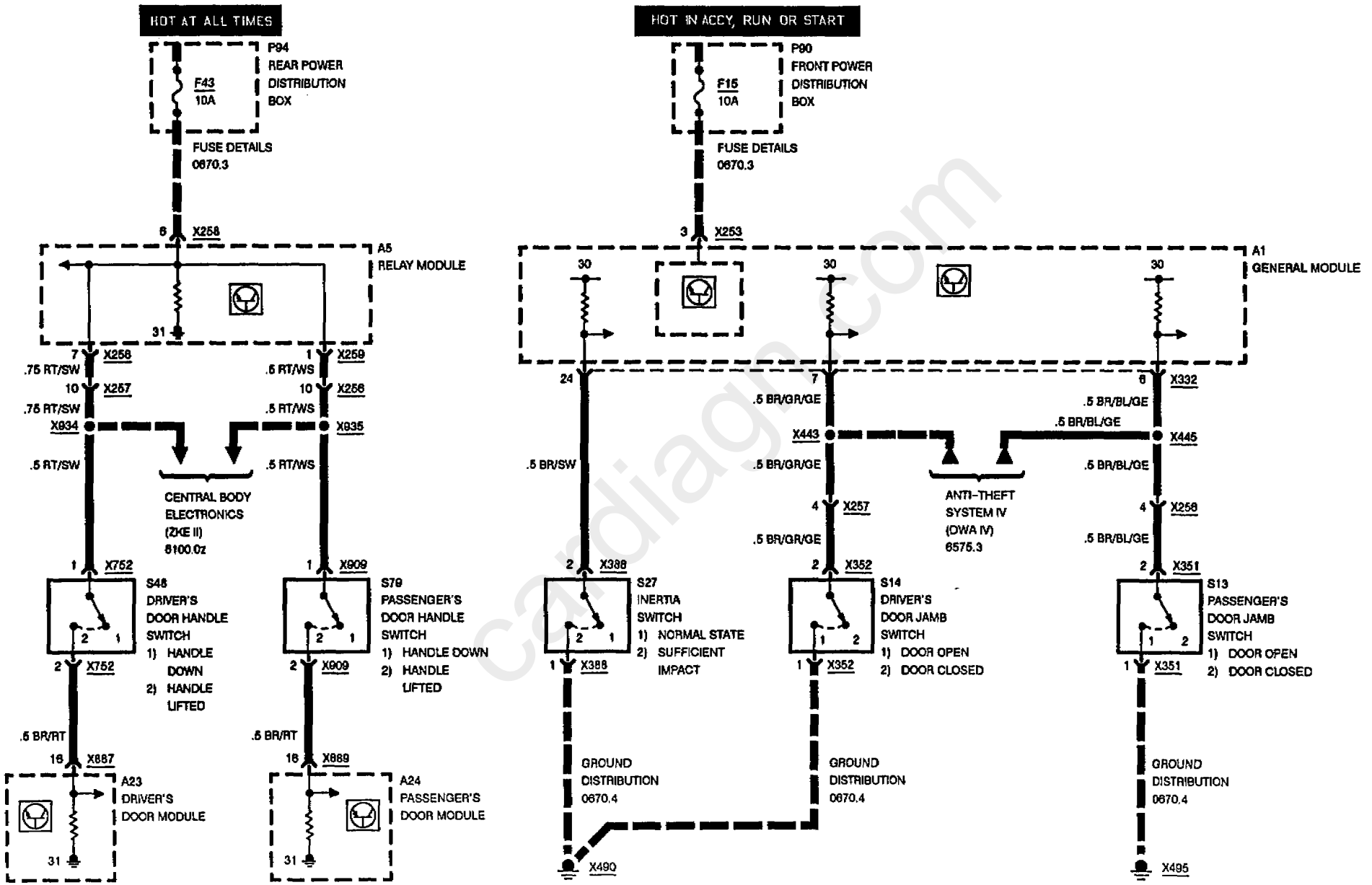
BRAKE LIGHTS



cardiagn.com

ZKE INTERIOR LIGHTS (IB)

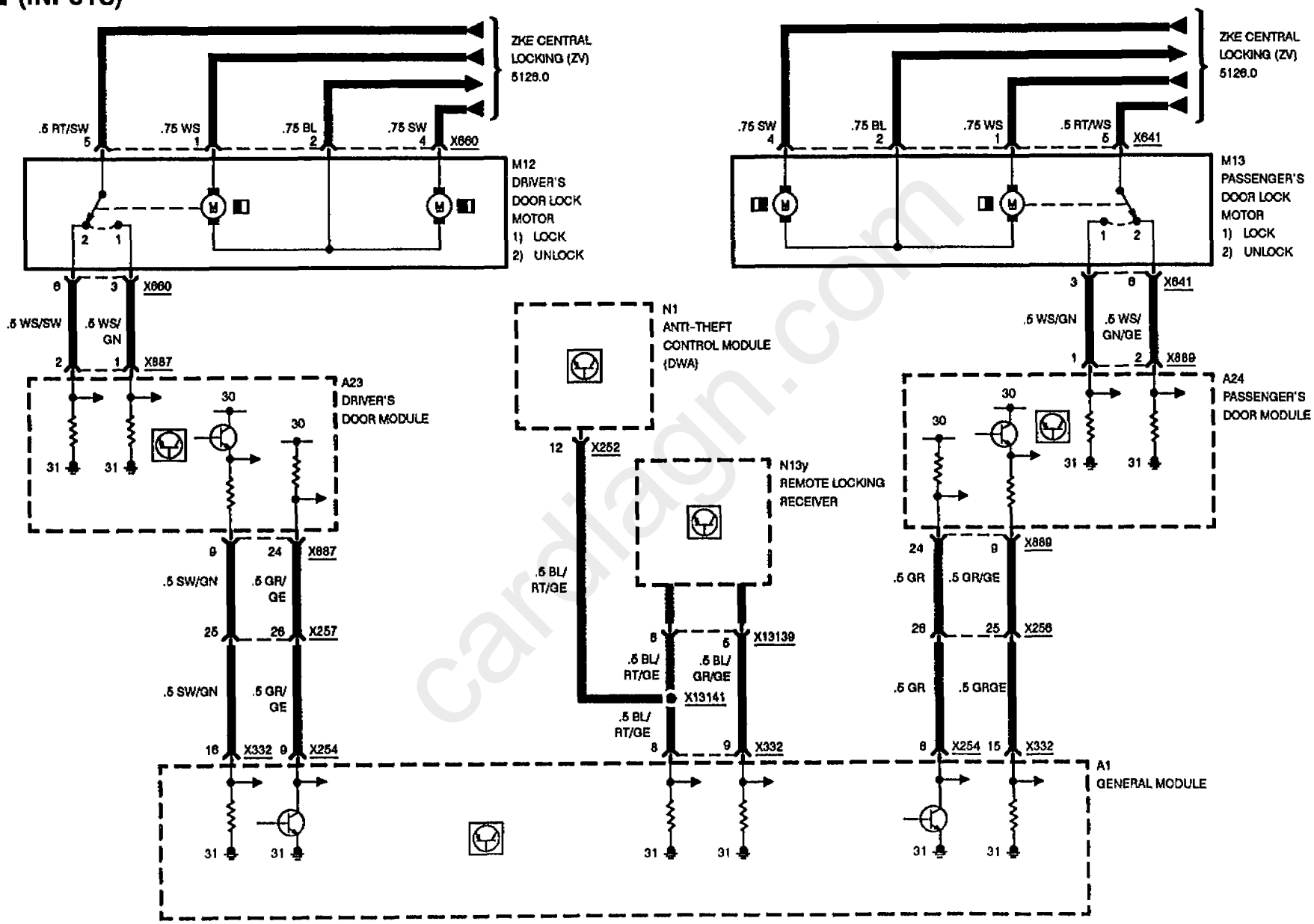
(INPUTS)



cardiagn.com

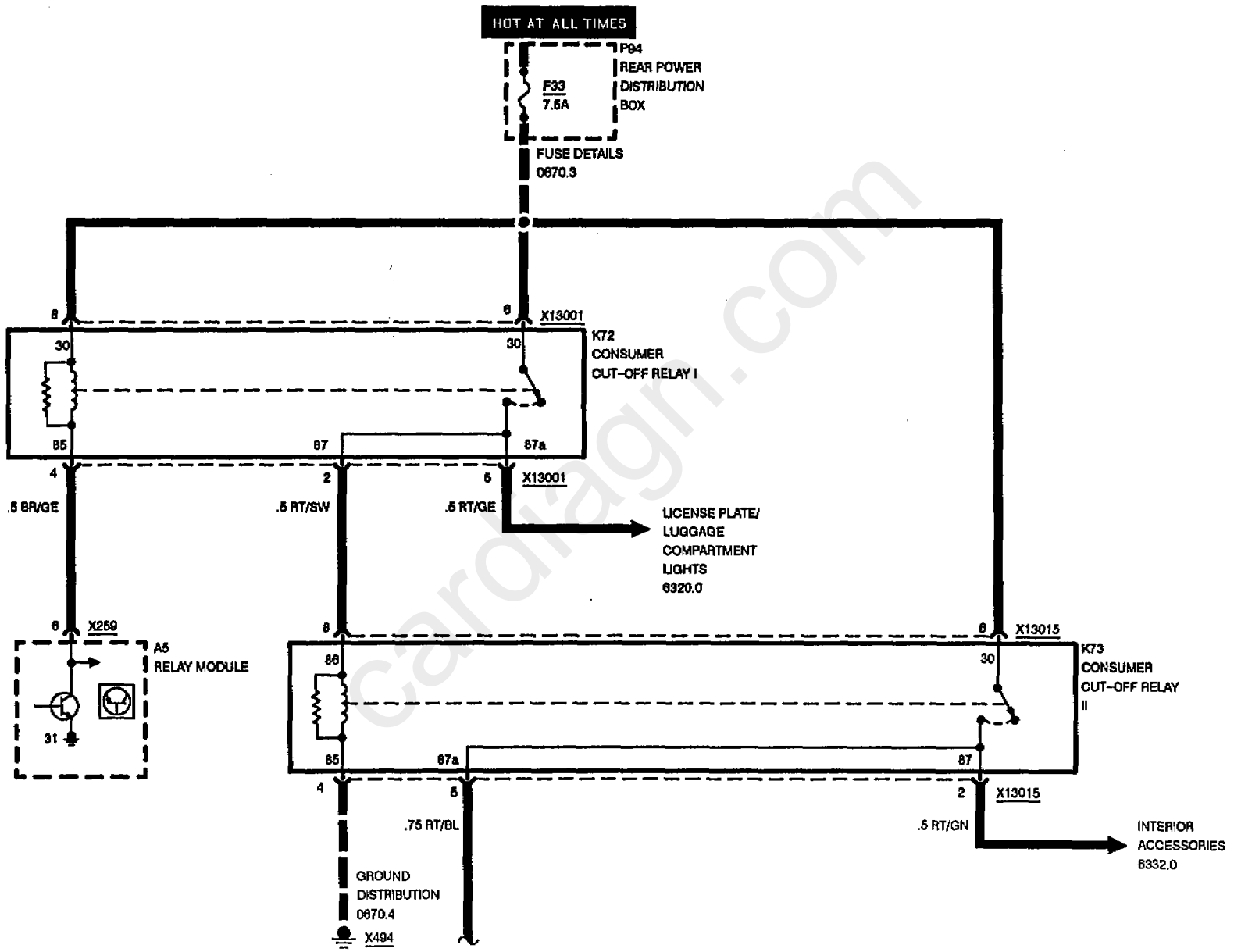
ZKE INTERIOR LIGHTS (IB)

(INPUTS)

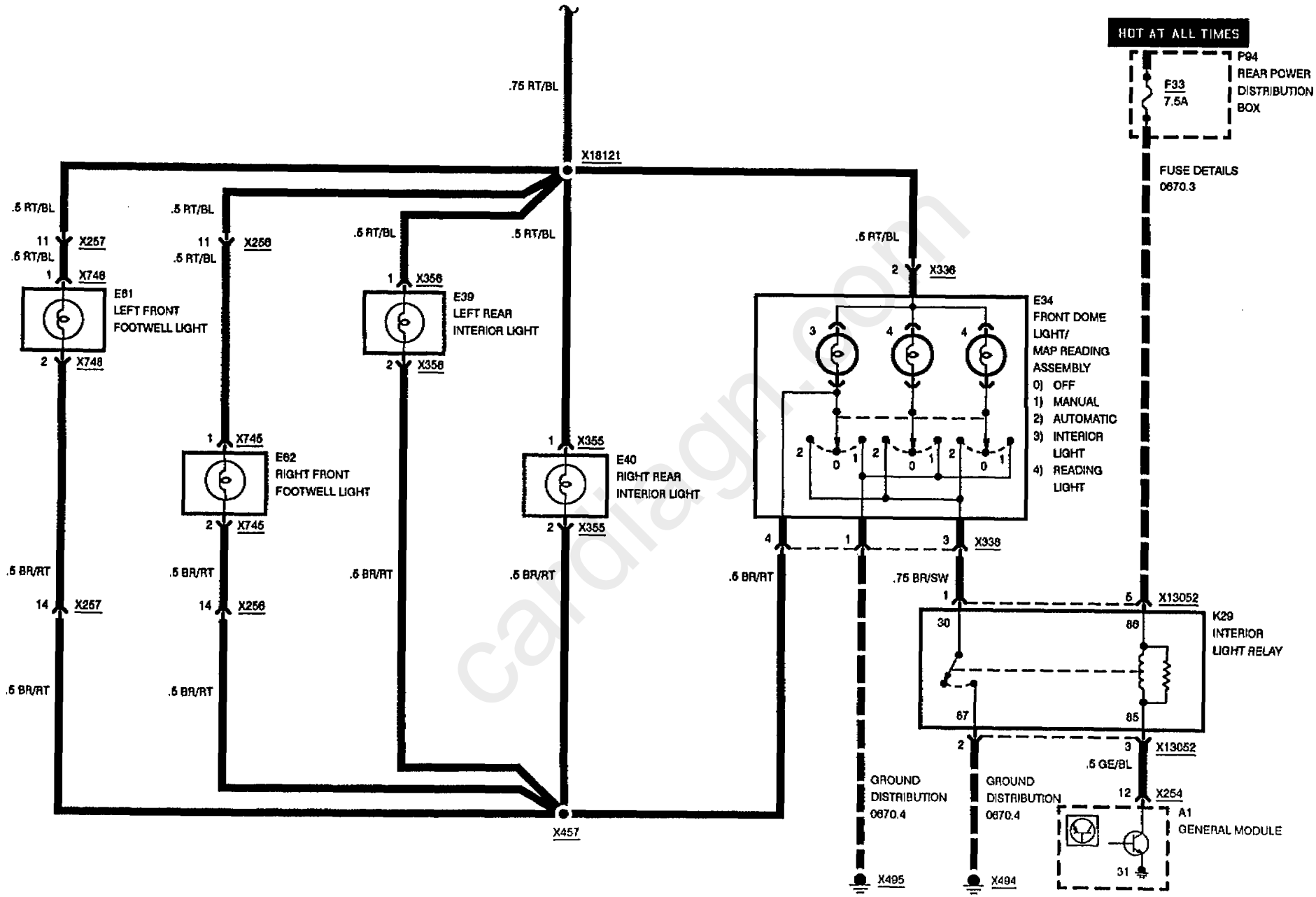


cardiagn.com

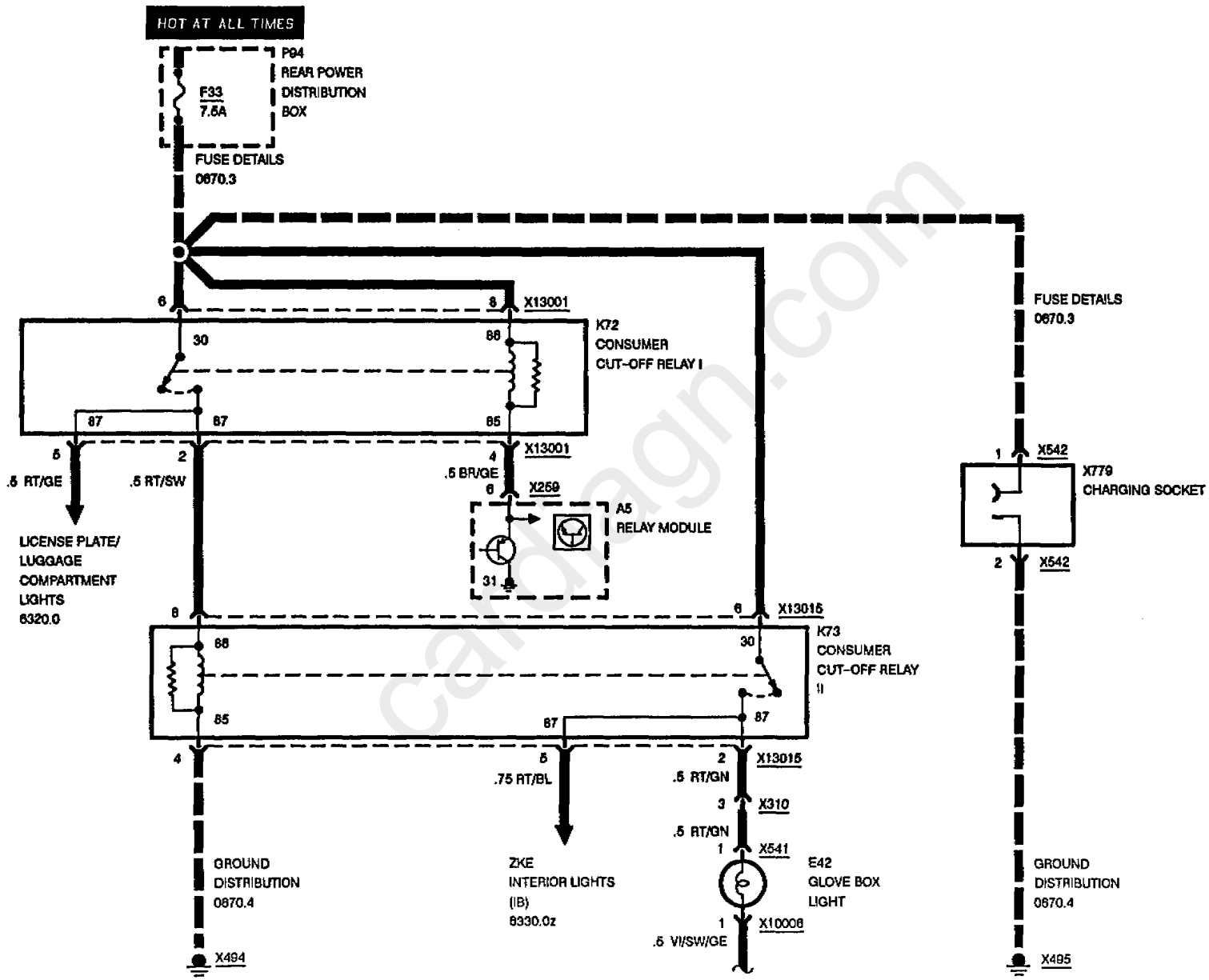
ZKE INTERIOR LIGHTS (IB)



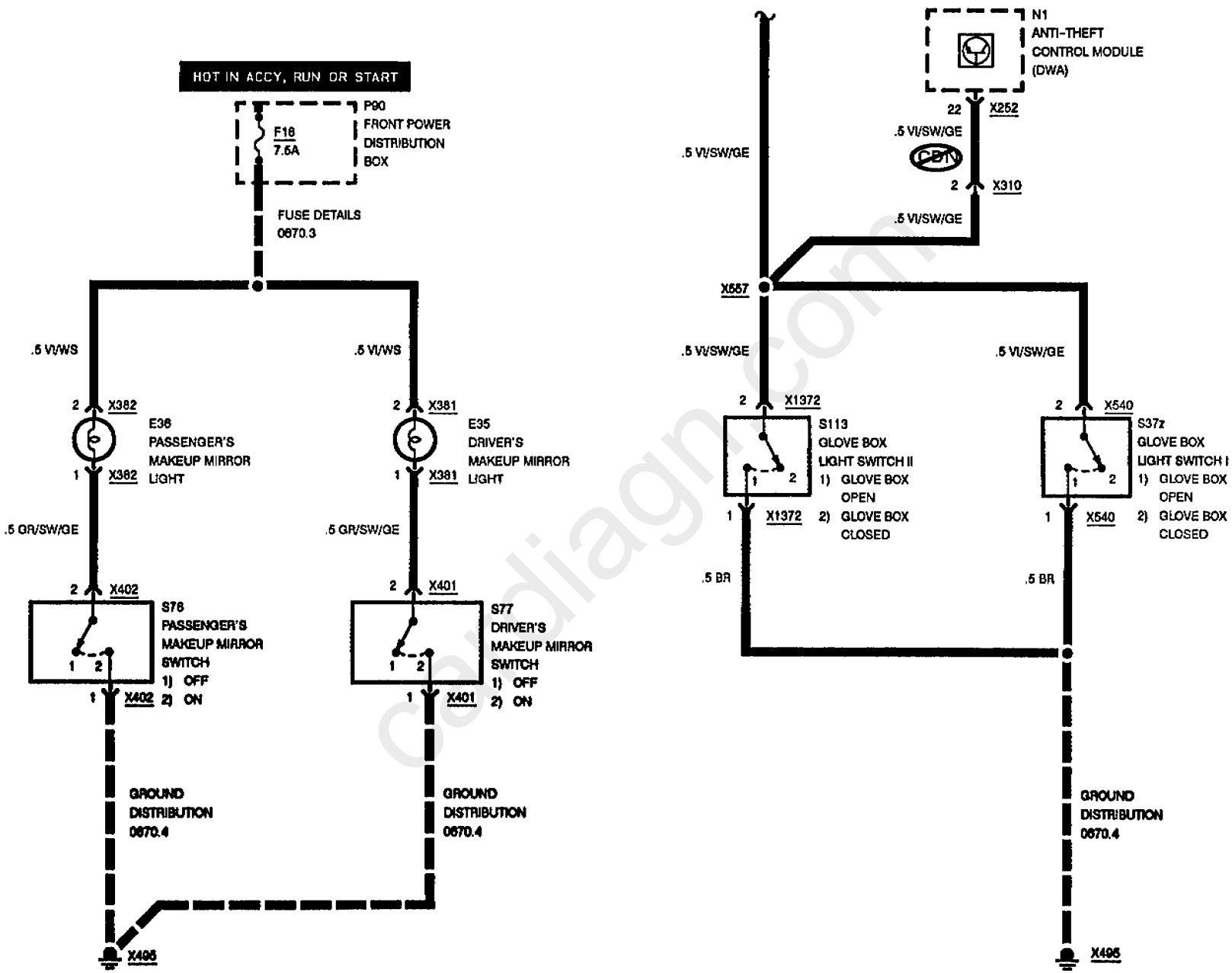
cardiagn.com



cardiagn.com



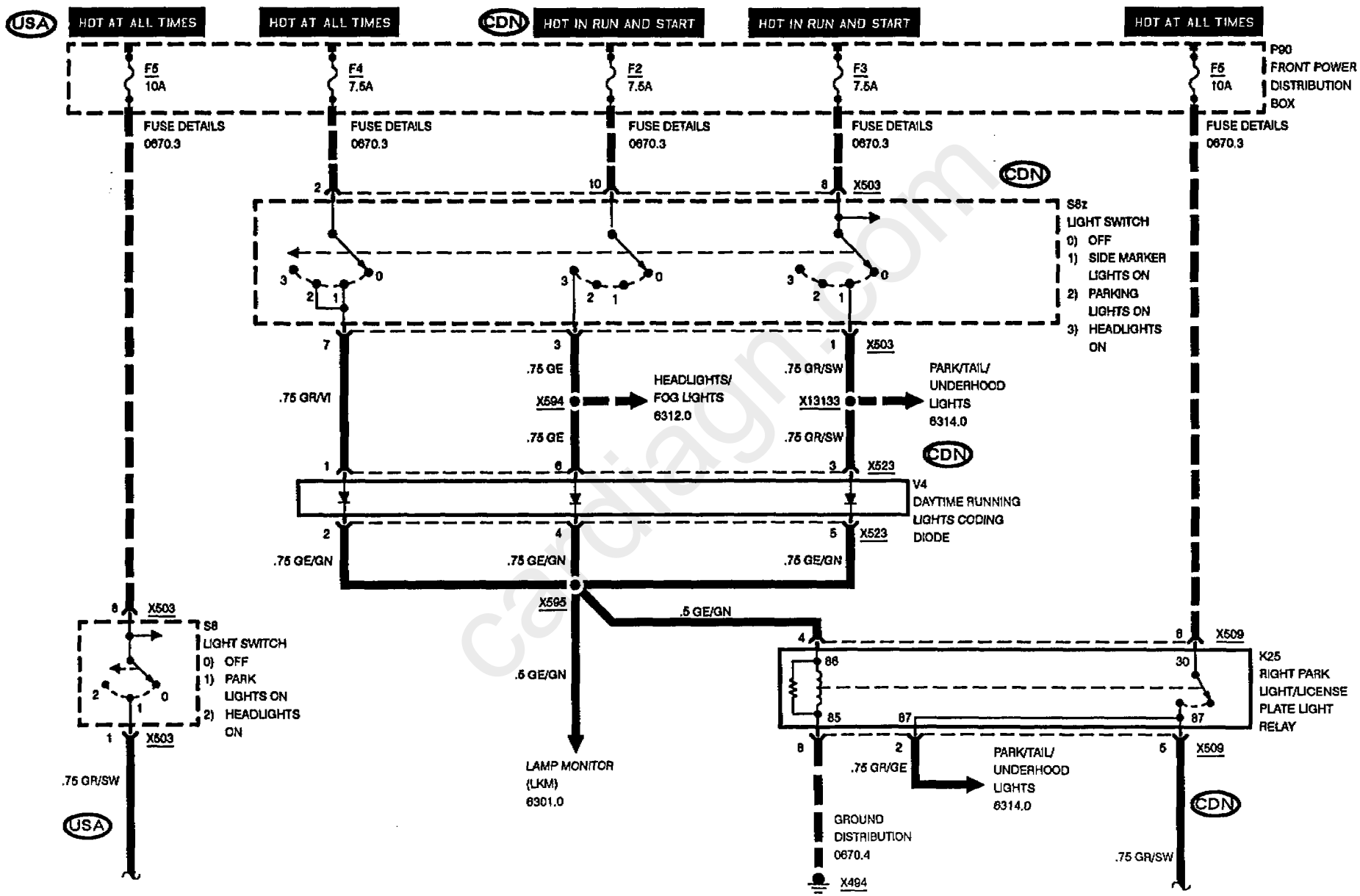
cardiagn.com



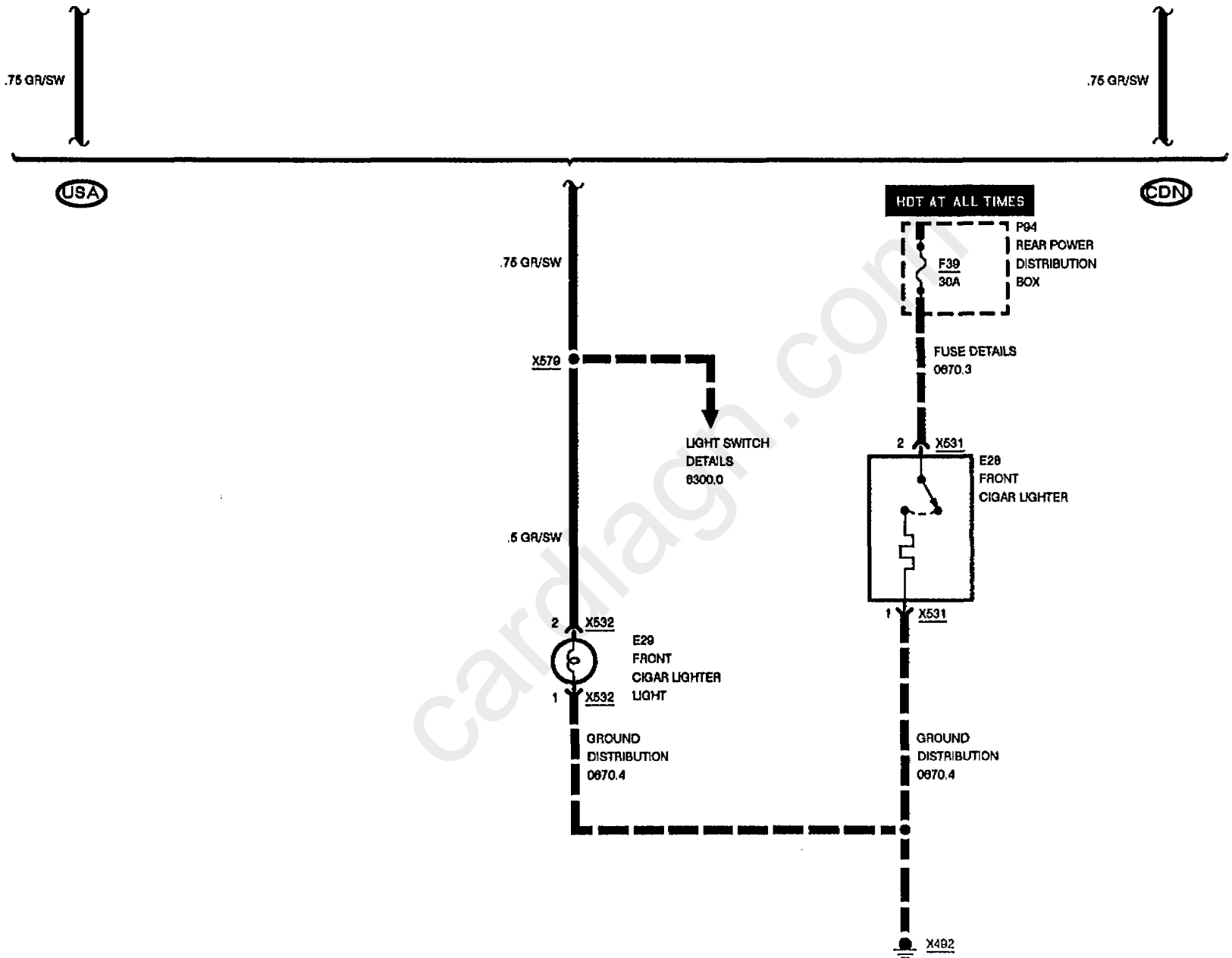
cardiagn.com

INTERIOR ACCESSORIES

CIGARETTE LIGHTER

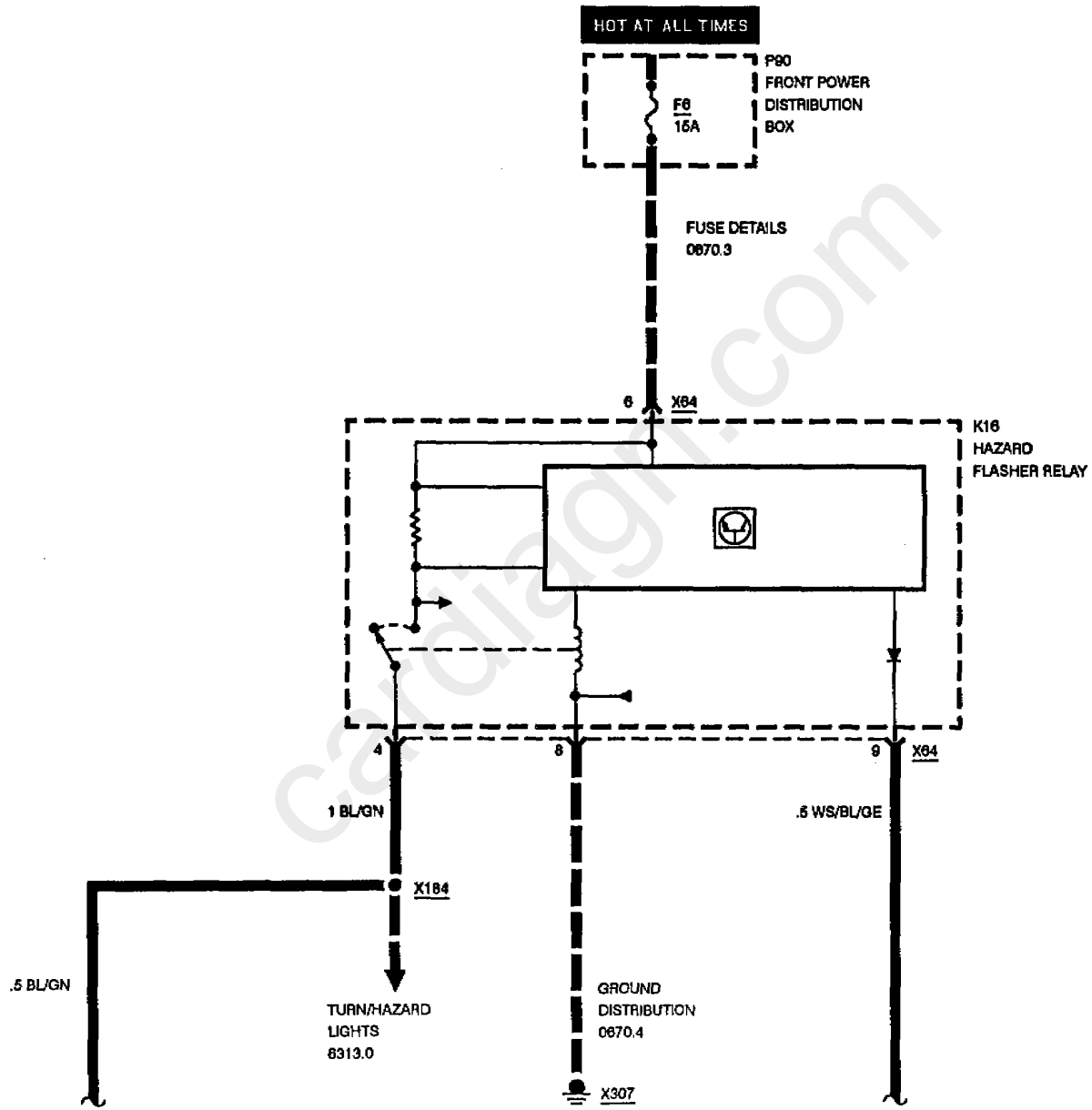


cardiagn.com

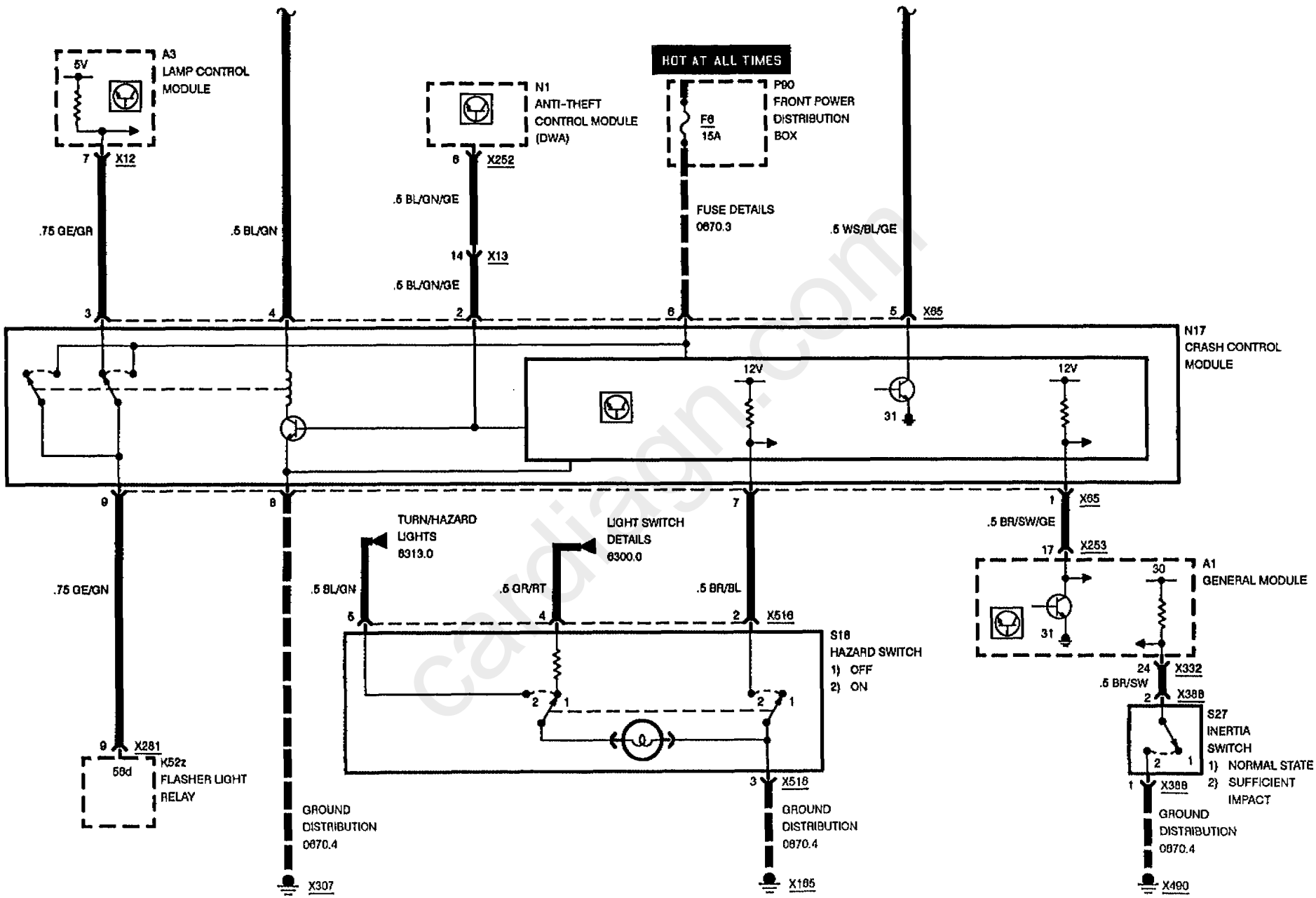


cardiagn.com

CRASH CONTROL MODULE



cardiagn.com

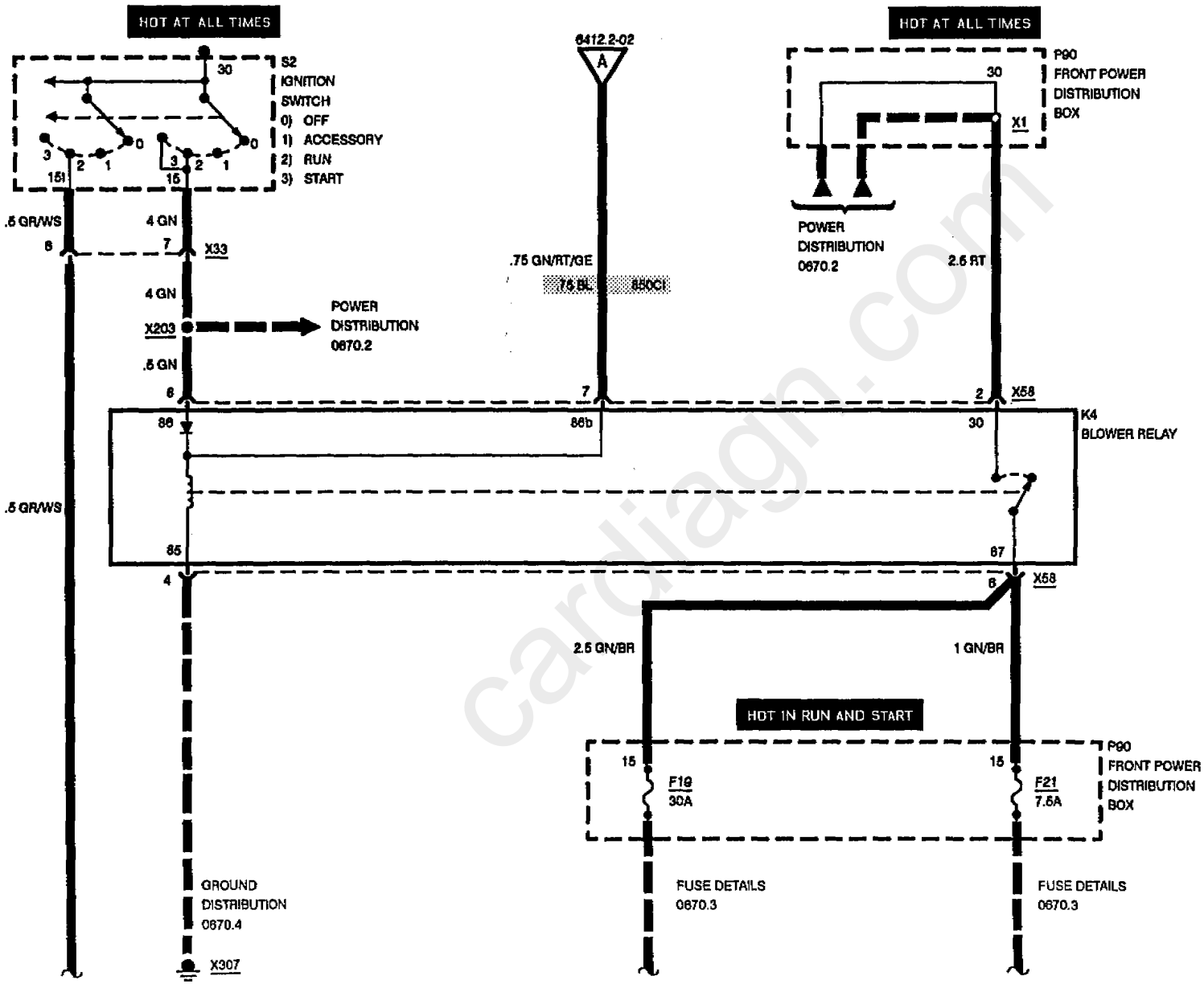


cardiagn.com

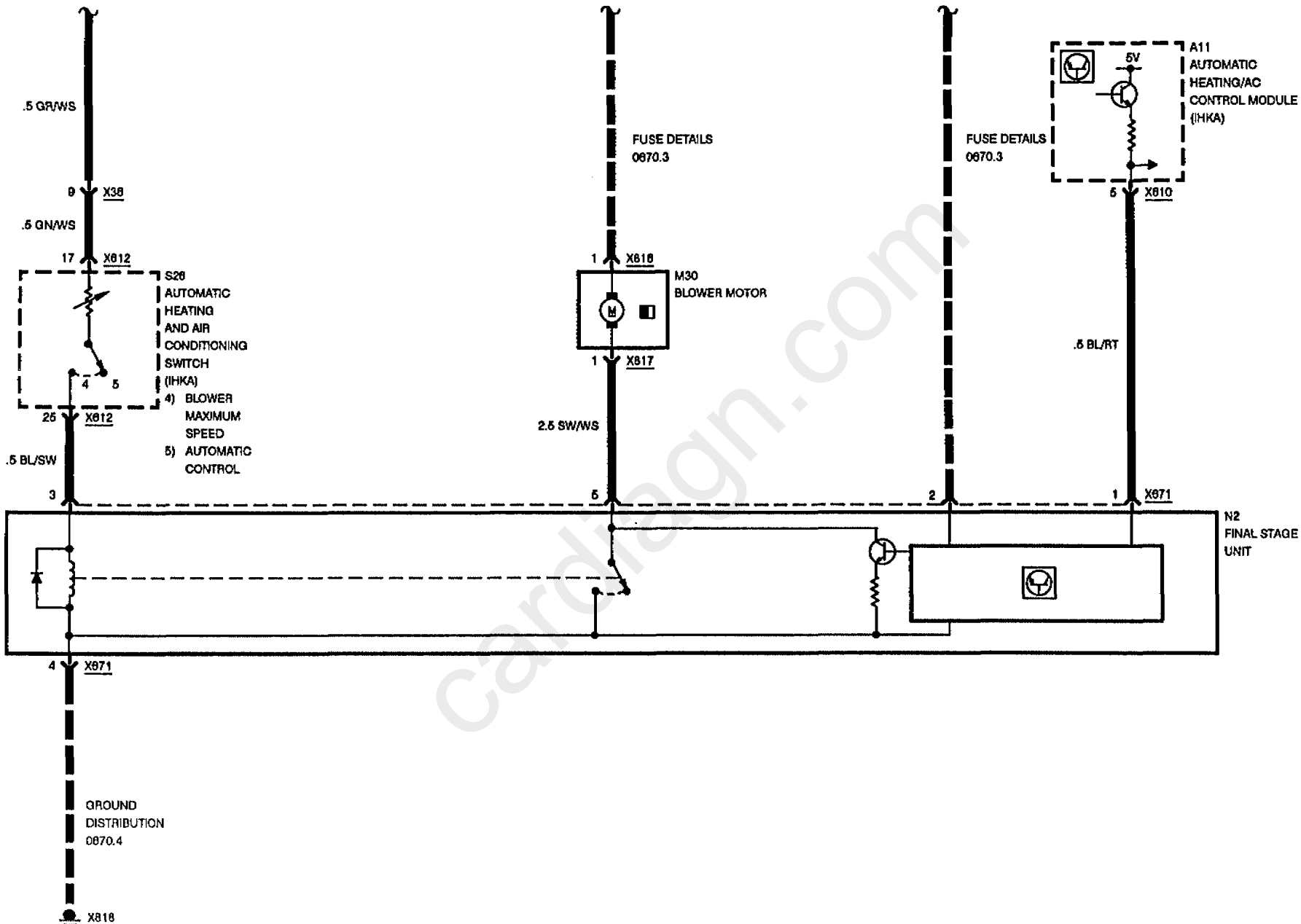
cardiagn.com

cardiagn.com

PARK VENTILATION WITH IHKA



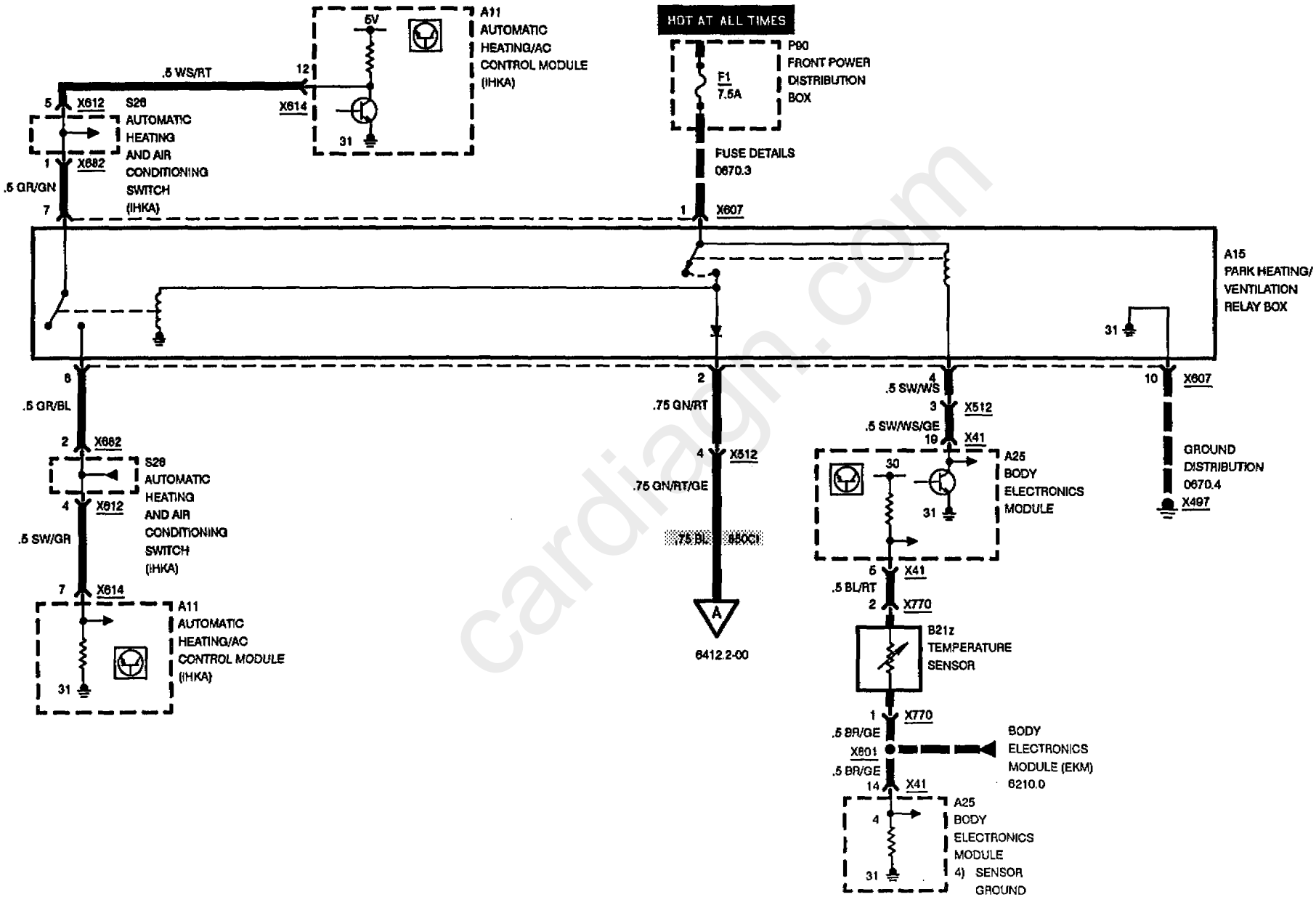
cardiagn.com



cardiagn.com

PARK VENTILATION WITH IHKA

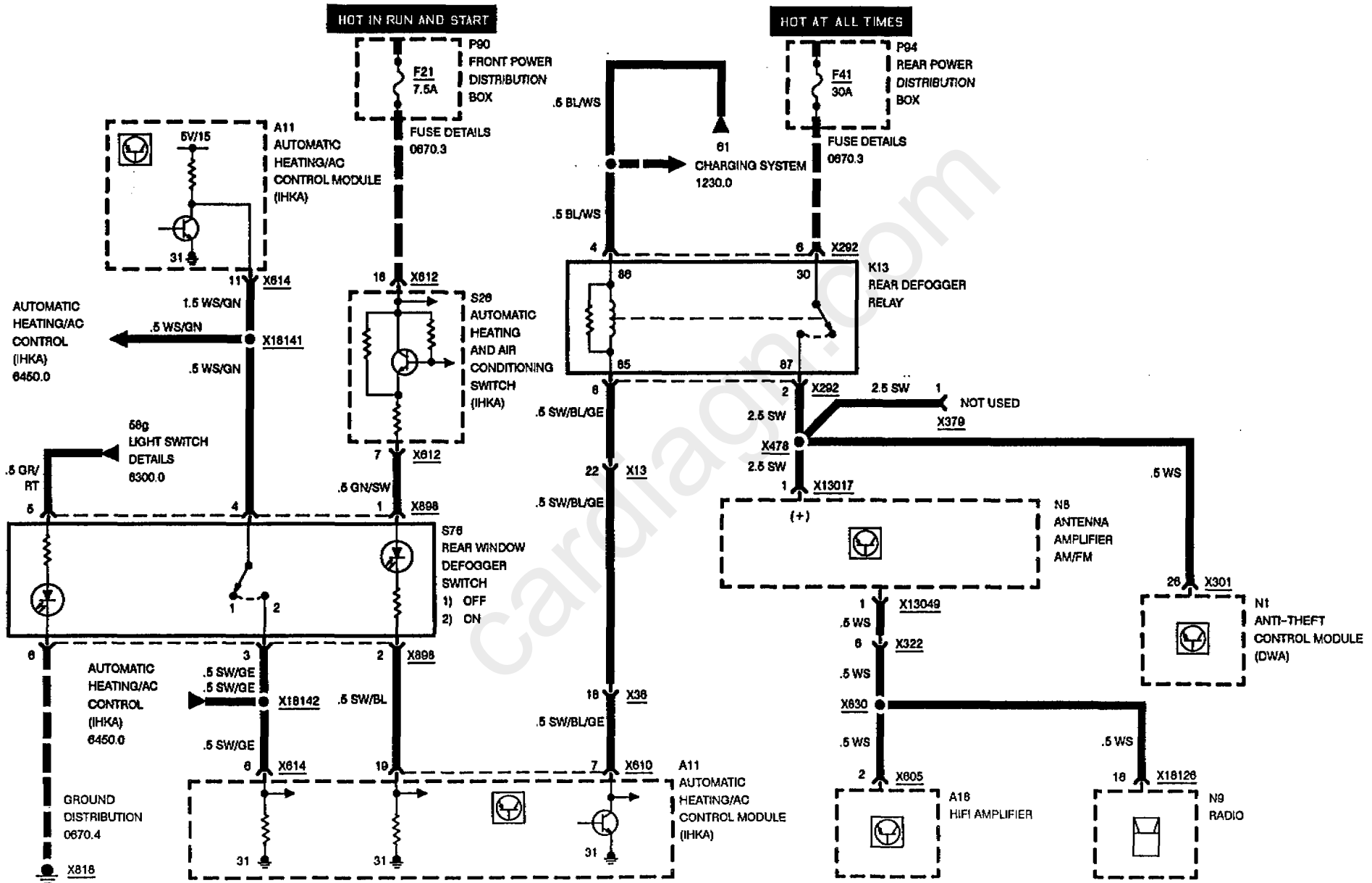
CDN



cardiagn.com

carldiagn.com

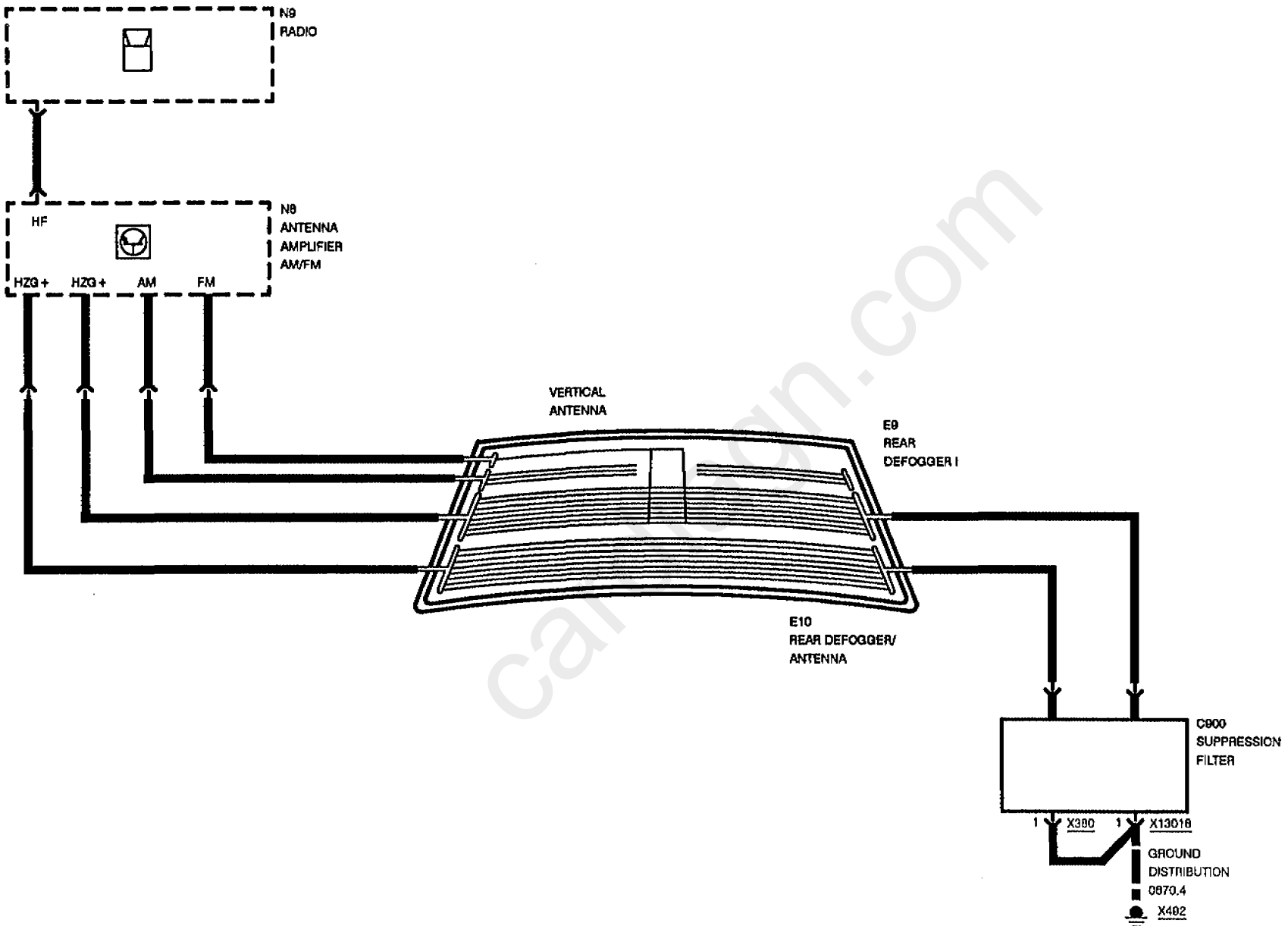
REAR WINDOW DEFOGGER/ ANTENNA



cardiagn.com

REAR WINDOW DEFOGGER/ ANTENNA

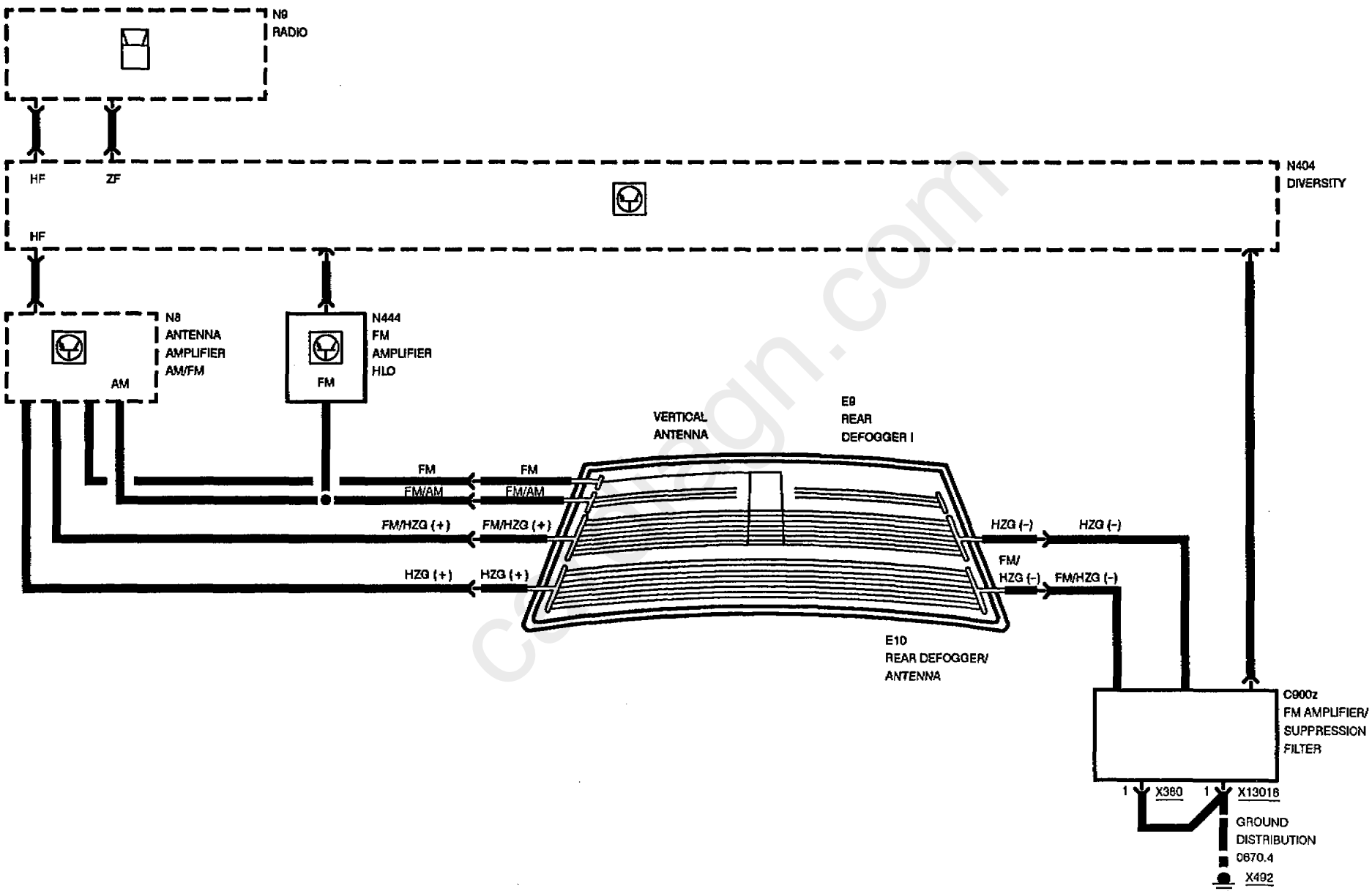
REAR WINDOW ANTENNA



carmagn.com

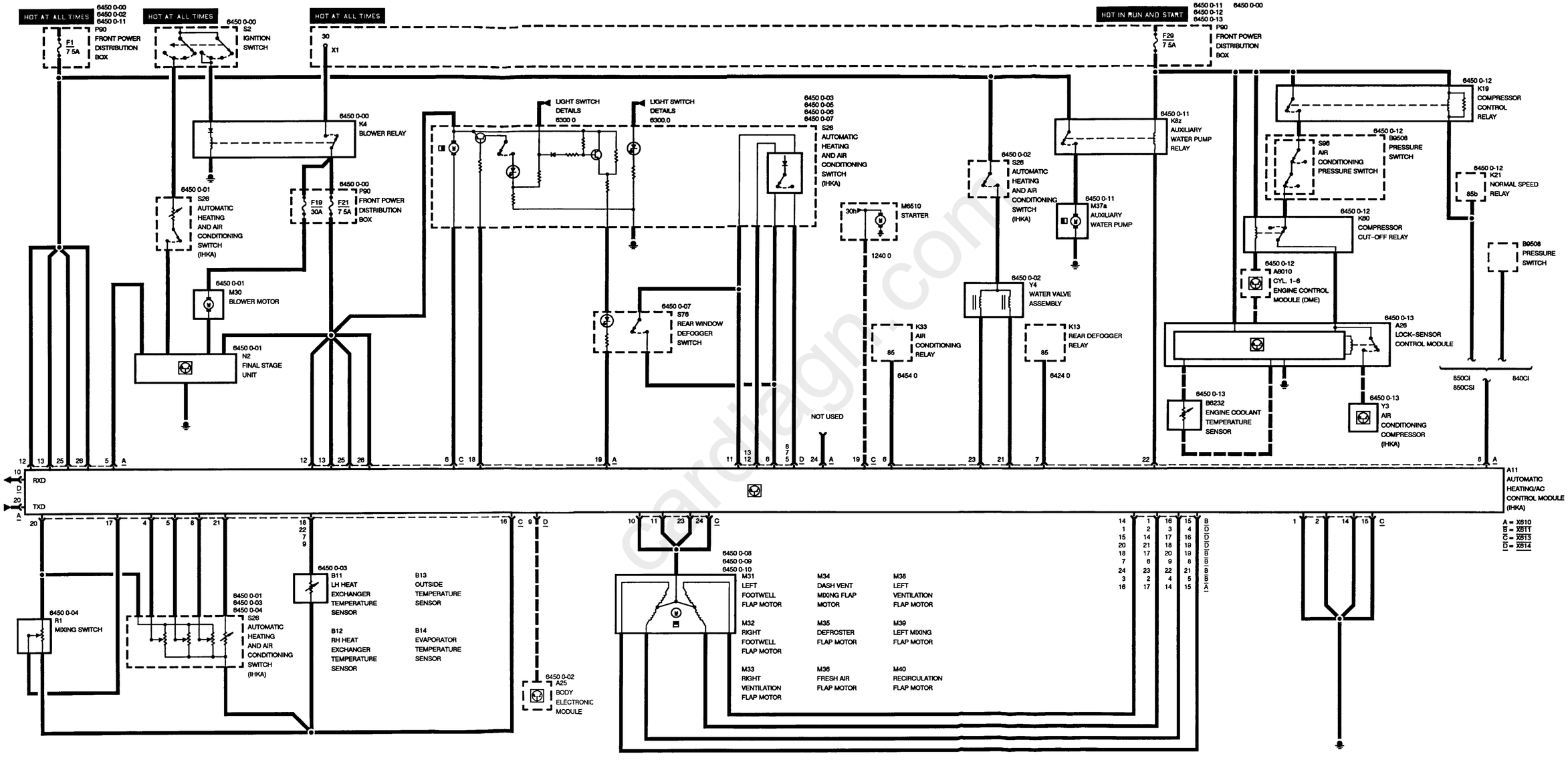
REAR WINDOW DEFOGGER/ ANTENNA

3-ANTENNA-DIVERSITY

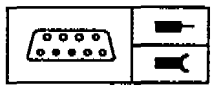


carsign.com

12/94 — 6450.0 — 1994
12/94 — 6450.0 — 1994



cardiagn.com



Pin Assignments

A=X610	26 pins, white
B=X611	26 pins, green
C=X613	26 pins, blue
D=X614	26 pins, yellow

X610

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4		Not used	
5	A	Blower output stage activation	Final stage unit
6	A	Air conditioning	Air conditioning relay
7	A	Rear window defogger relay activation	Rear window defogger relay
8	A	Compressor control relay/normal speed relay activation	Compressor control relay/normal speed relay
9		Not used	
10		Not used	
11		Not used	
12	E	Voltage (terminal 30)	Fuse
13	E	Voltage (terminal 30)	Fuse
14	A	Circulating air flap motor activation	Footwell flap motor
15	A	Circulating air flap motor activation	Footwell flap motor
16	A	Circulating air flap motor activation	Footwell flap motor
17	A	Circulating air flap motor activation	Footwell flap motor
18	A	Function light activation	IHKA switch
19	A	Rear window defogger switch light activation	Rear window defogger switch
20	A	TxD diagnostic data line	Data link connector
21	A	Left water valve activation	Water valve assembly
22	A	Auxiliary water pump relay activation	Auxiliary water pump relay
23	A	Right water valve activation	Water valve assembly

E = Input, A = Output, M = Ground

mandiagn.com

Pin Assignments

Pin	Type	Description/Function	Connection
24		Not used	
25	E	Voltage (terminal 30)	Fuse
26	E	Voltage (terminal 30)	Fuse

X611

Pin	Type	Description/Function	Connection
1	A	Left footwell flap motor activation	Left footwell flap motor
2	A	Left mixing flap motor activation	Left mixing flap motor
3	A	Left mixing flap motor activation	Left mixing flap motor
4	A	Left mixing flap motor activation	Left mixing flap motor
5	A	Left mixing flap motor activation	Left mixing flap motor
6	A	Fresh air flap motor activation	Fresh air flap motor
7	A	Fresh air flap motor activation	Fresh air flap motor
8	A	Fresh air flap motor activation	Fresh air flap motor
9	A	Fresh air flap motor activation	Fresh air flap motor
10		Not used	
11		Not used	
12		Not used	
13		Not used	
14	A	Left footwell flap motor activation	Left footwell flap motor
15	A	Left footwell flap motor activation	Left footwell flap motor
16	A	Left footwell flap motor activation	Left footwell flap motor
17	A	Defroster flap motor activation	Defroster flap motor
18	A	Defroster flap motor activation	Defroster flap motor
19	A	Defroster flap motor activation	Defroster flap motor
20	A	Defroster flap motor activation	Defroster flap motor
21	A	Left ventilation flap motor activation	Left ventilation flap motor
22	A	Left ventilation flap motor activation	Left ventilation flap motor
23	A	Left ventilation flap motor activation	Left ventilation flap motor
24	A	Left ventilation flap motor activation	Left ventilation flap motor

E = Input, A = Output, M = Ground

cardiagn.com

Pin Assignments

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

X613

Pin	Type	Description/Function	Connection
1	M	Ground	Ground point
2	M	Ground	Ground point
3		Not used	
4	E	Nominal temperature value, left (potentiometer)	IHKA switch
5	E	Nominal air flow value (potentiometer)	IHKA switch
6	M	Interior sensor blower (ground)	IHKA switch
7	A/E	Outside temperature	Outside temperature sensor
8	E	Nominal temperature value, right (potentiometer)	IHKA switch
9	A/E	Evaporator temperature	Evaporator temp. sensor
10	A	Voltage for flap motors	Plus connector for flap motors
11	A	Voltage for flap motors	Plus connector for flap motors
12	E	Ignition voltage (terminal 15)	Blower relay/fuse
13	E	Ignition voltage (terminal 15)	Blower relay/fuse
14	M	Ground	Ground point
15	M	Ground	Ground point
16	A	Ground for sensors and control wheels	Sensors and control wheels
17	E	Nominal mixing air value	Temperature distribution potentiometer
18	A/E	Left heater temperature	Left heat exchanger temperature sensor
19	E	Starter signal 30h	Starter
20	A	Voltage for control wheels	Control wheels
21	A/E	Inside air temperature sensor	IHKA switch
22	A/E	Right heater temperature	Right heat exchanger temperature sensor
23	A	Voltage for flap motors	Plus connector for flap motors
24	A	Voltage for flap motors	Plus connector for flap motors

E = Input, A = Output, M = Ground

ediagram.com

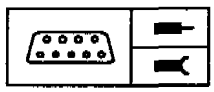
Pin Assignments

Pin	Type	Description/Function	Connection
25	E	Ignition voltage (terminal 15)	Blower relay/fuse
26	E	Ignition voltage (terminal 15)	Blower relay/fuse

X614

Pin	Type	Description/Function	Connection
1	A	Right footwell flap motor activation	Right footwell flap motor
2	A	Right footwell flap motor activation	Right footwell flap motor
3	A	Right footwell flap motor activation	Right footwell flap motor
4	A	Right footwell flap motor activation	Right footwell flap motor
5	E	Switch for circulating air and air conditioning	IHKA switch
6	E	Switch for rear window, max left, bottom left	IHKA switch/rear window defogger switch
7	E	Switch for defrost, park heating, park ventilation	IHKA switch, relay box park heating/park ventilation
8	E	Switch for max right, bottom right, right-hand drive coding diode	IHKA switch
9	E	Vehicle speed signal	Body electronics module (EKM)
10	E	RxD diagnostic data line	Data link connector
11	A	Switch for rear window, park heating, right-hand drive coding diode	IHKA switch/rear window defogger switch
12	A	Switch for circulating air, max left, max right, park ventilation	IHKA switch
13	A	Switch for air conditioning, bottom left, defrost, bottom right	IHKA switch
14	A	Right ventilation flap motor activation	Right ventilation flap motor
15	A	Right ventilation flap motor activation	Right ventilation flap motor
16	A	Right ventilation flap motor activation	Right ventilation flap motor
17	A	Right ventilation flap motor activation	Right ventilation flap motor
18	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
19	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
20	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
21	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
22		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

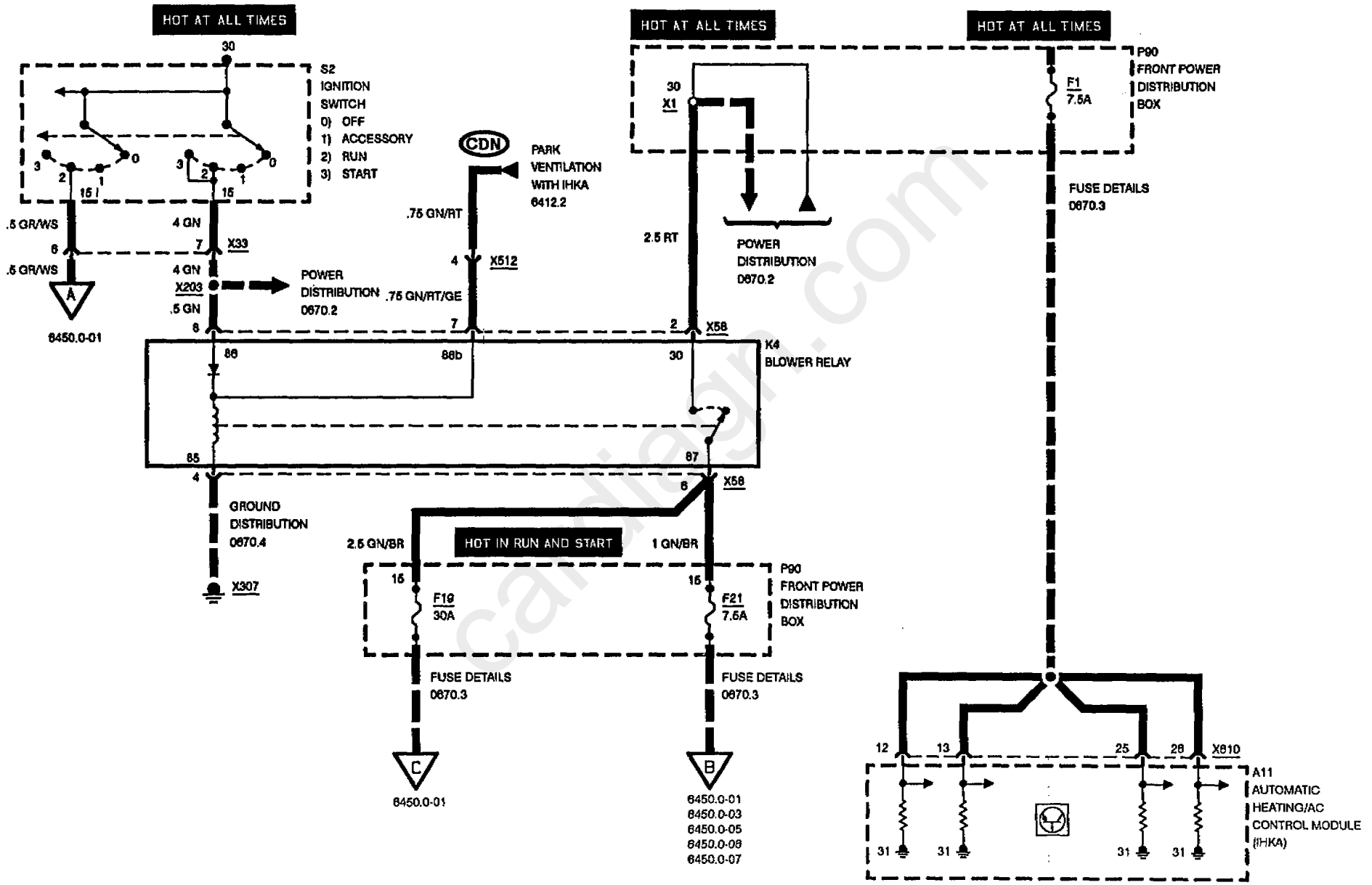
Pin	Type	Description/Function	Connection
23		Not used	
24		Not used	
25		Not used	
26		Not used	

cardiagn.com

E = Input, A = Output, M = Ground

AUTOMATIC HEATING/AC CONTROL (IHKA)

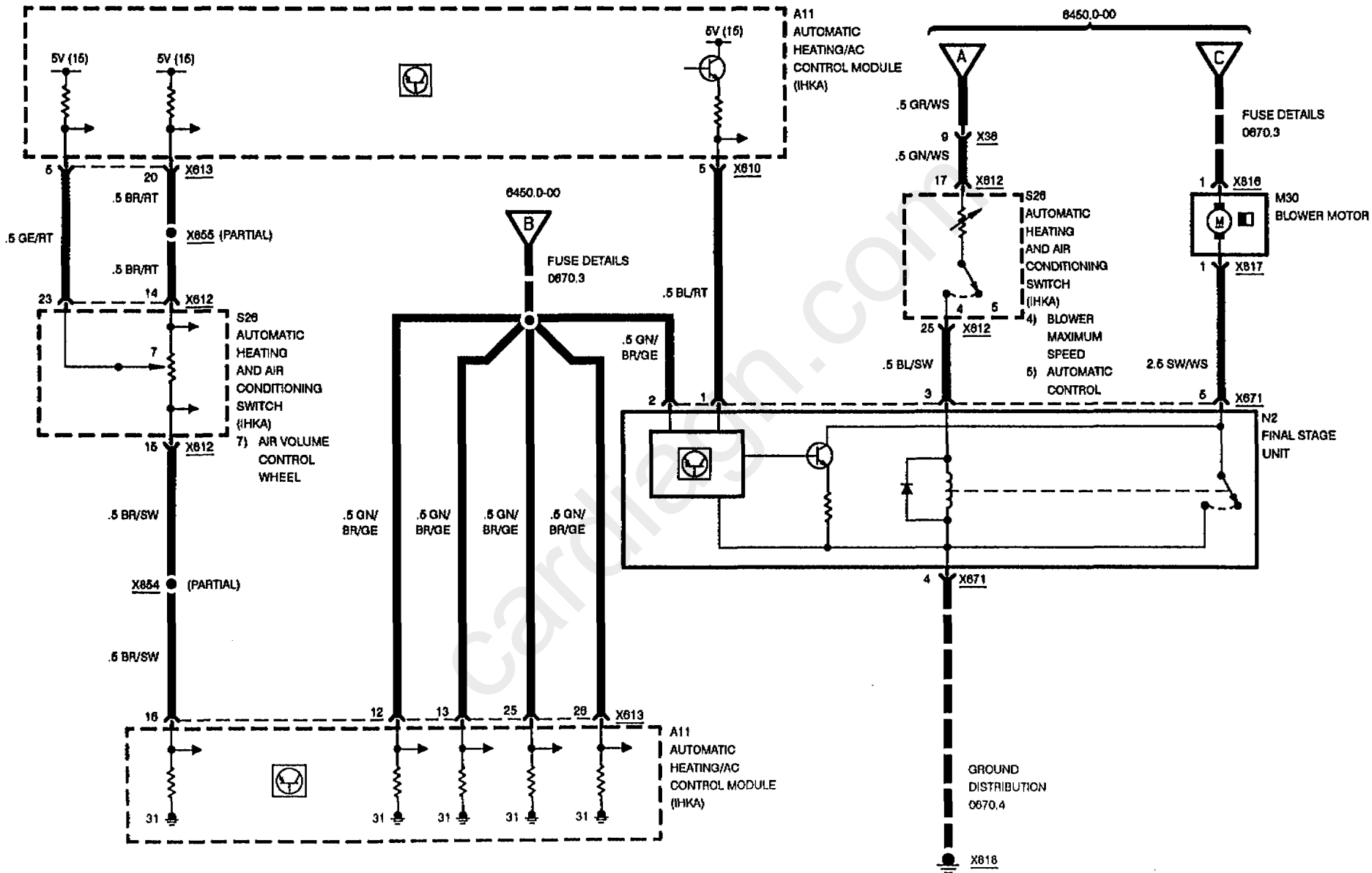
POWER



carmagr.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

BLOWER CONTROLS

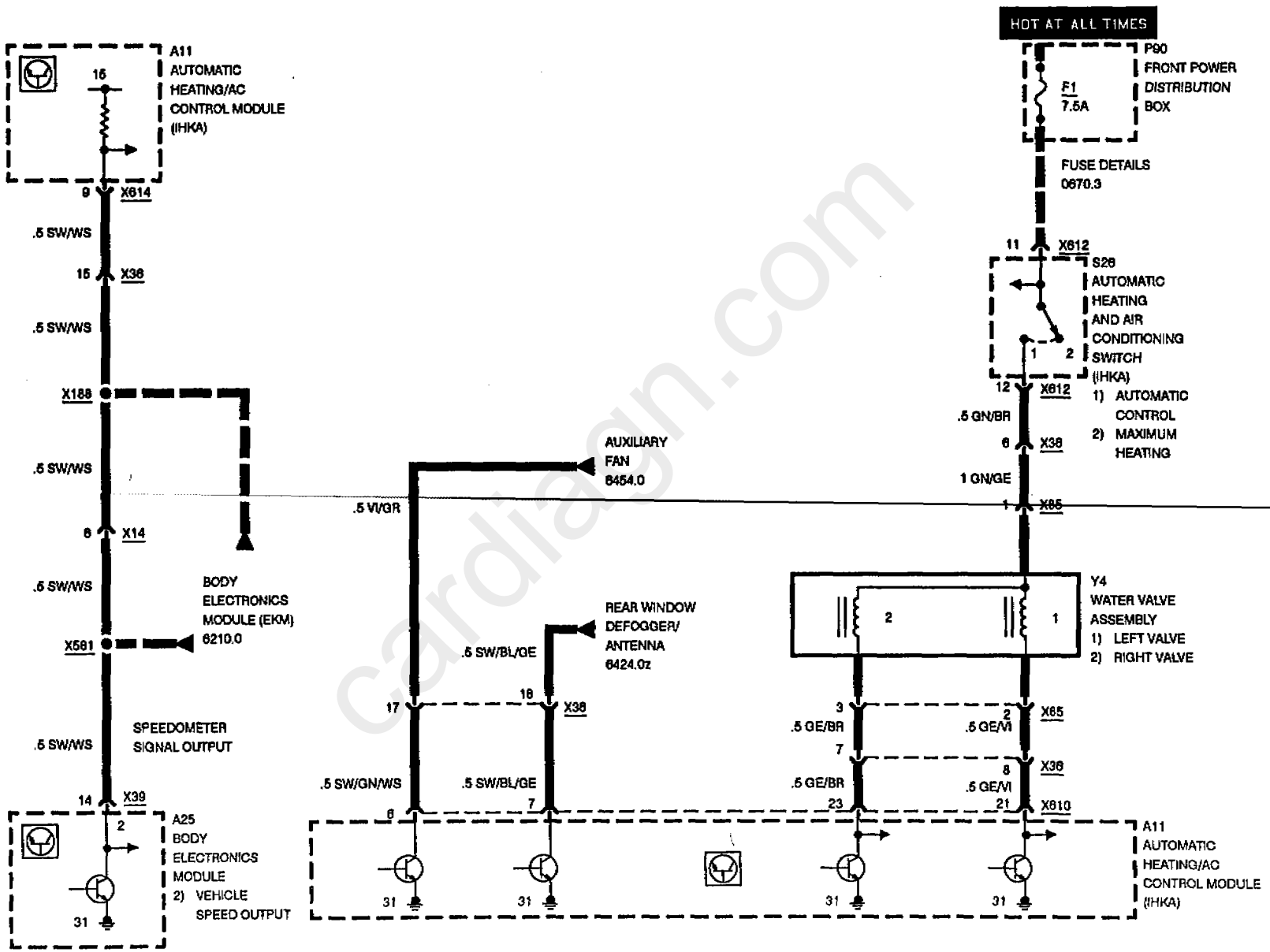


cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

BLOWER CONTROLS

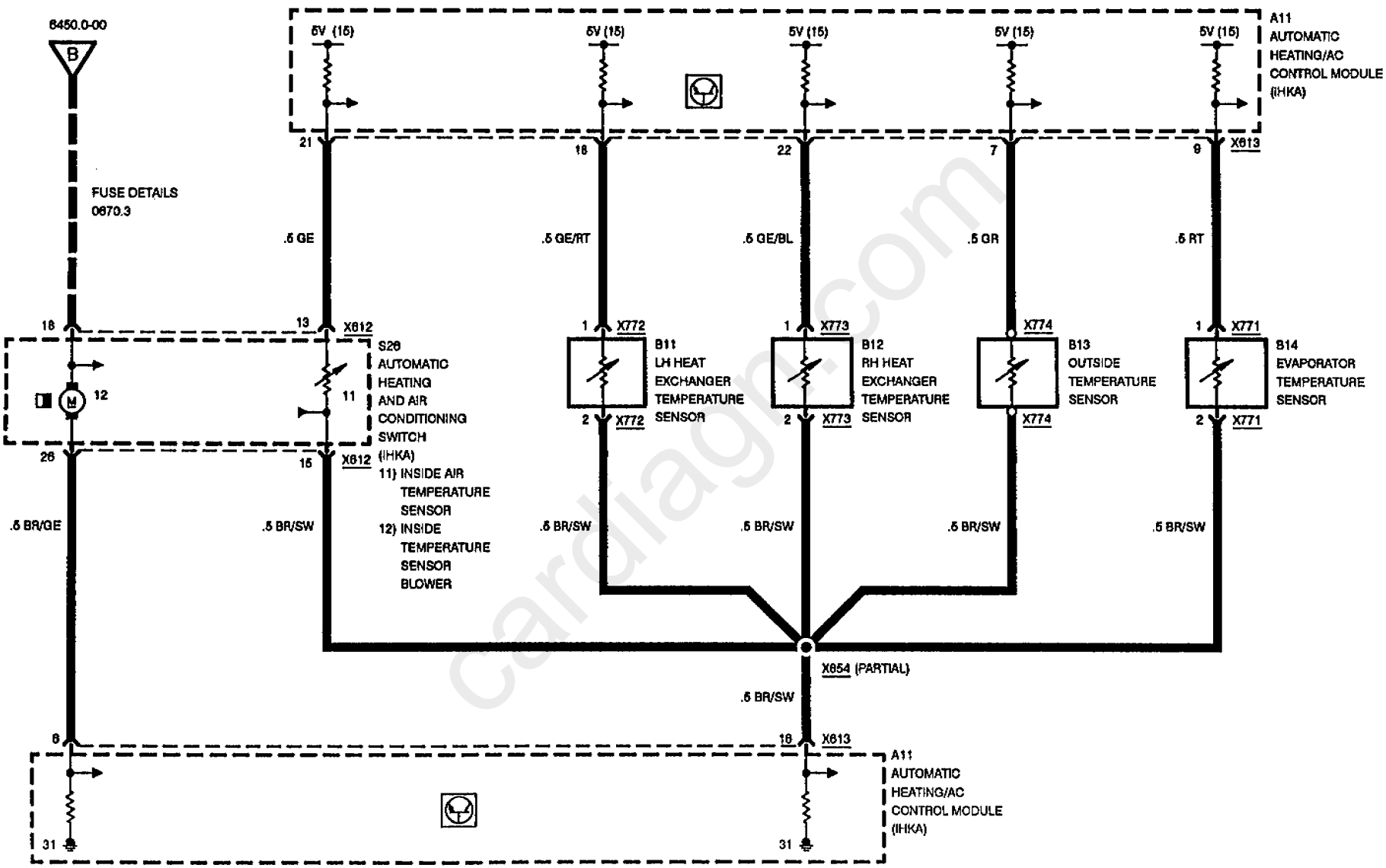
WATER VALVES



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

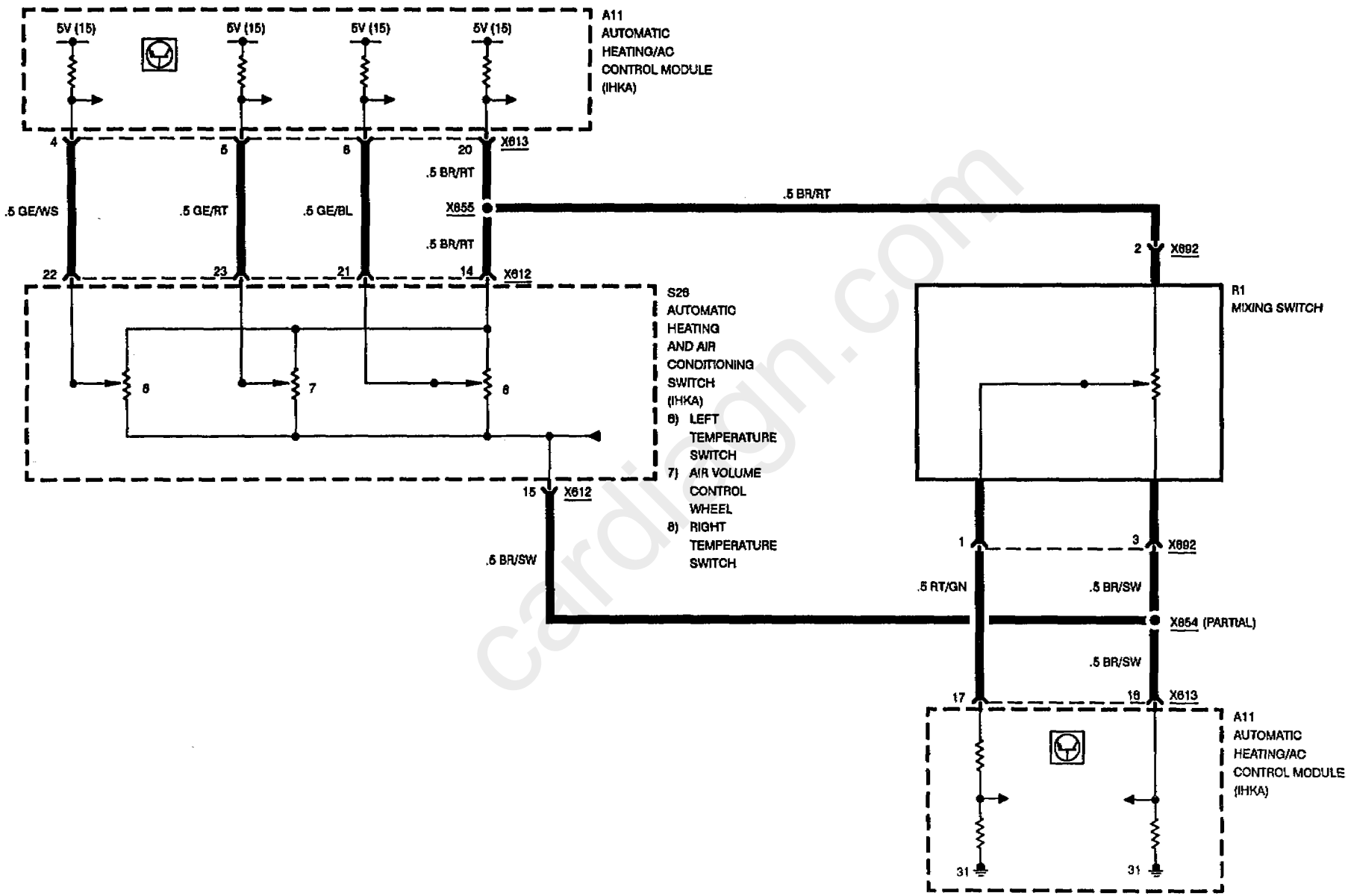
TEMPERATURE CONTROLS



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

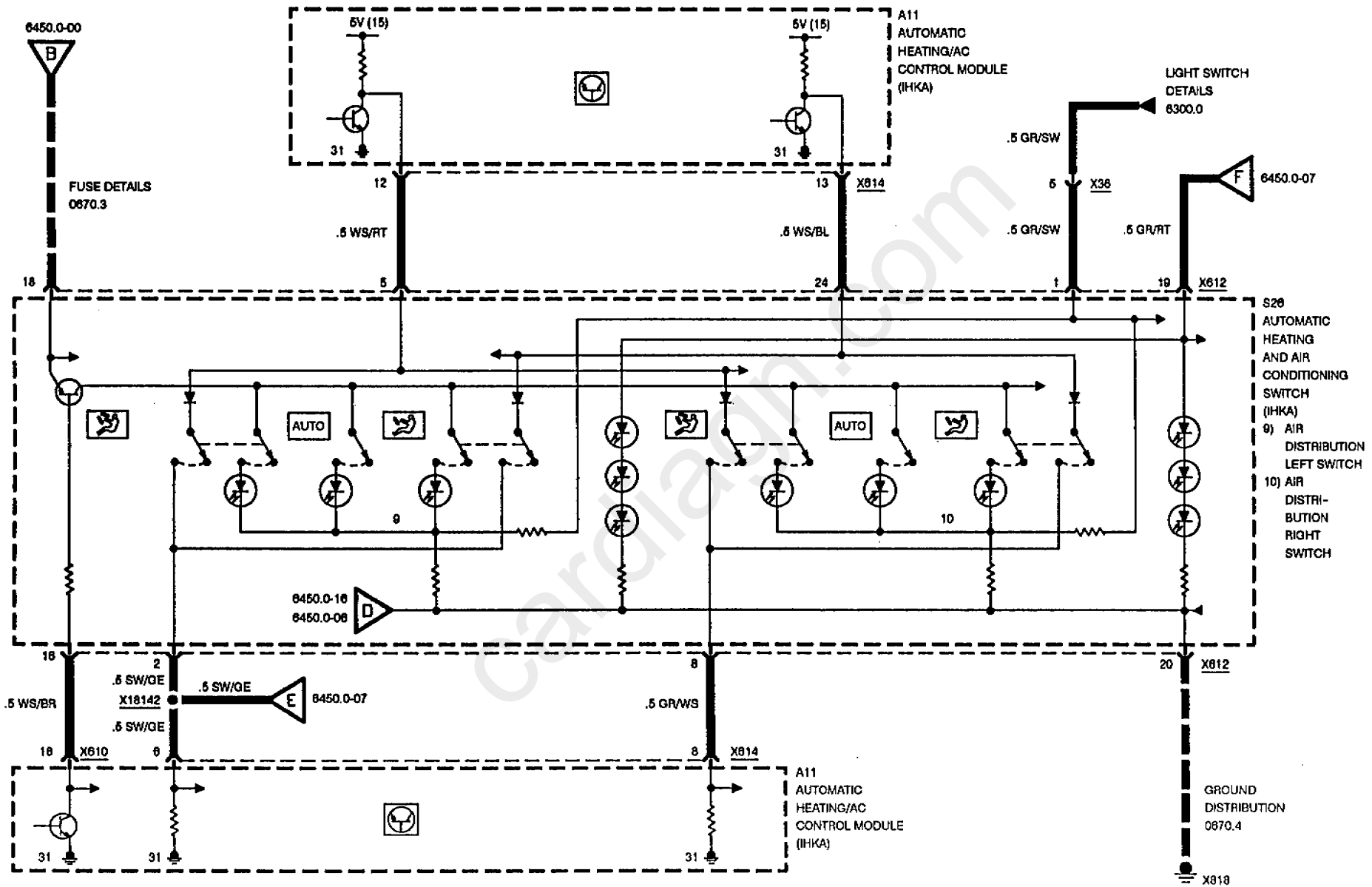
TEMPERATURE CONTROLS



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

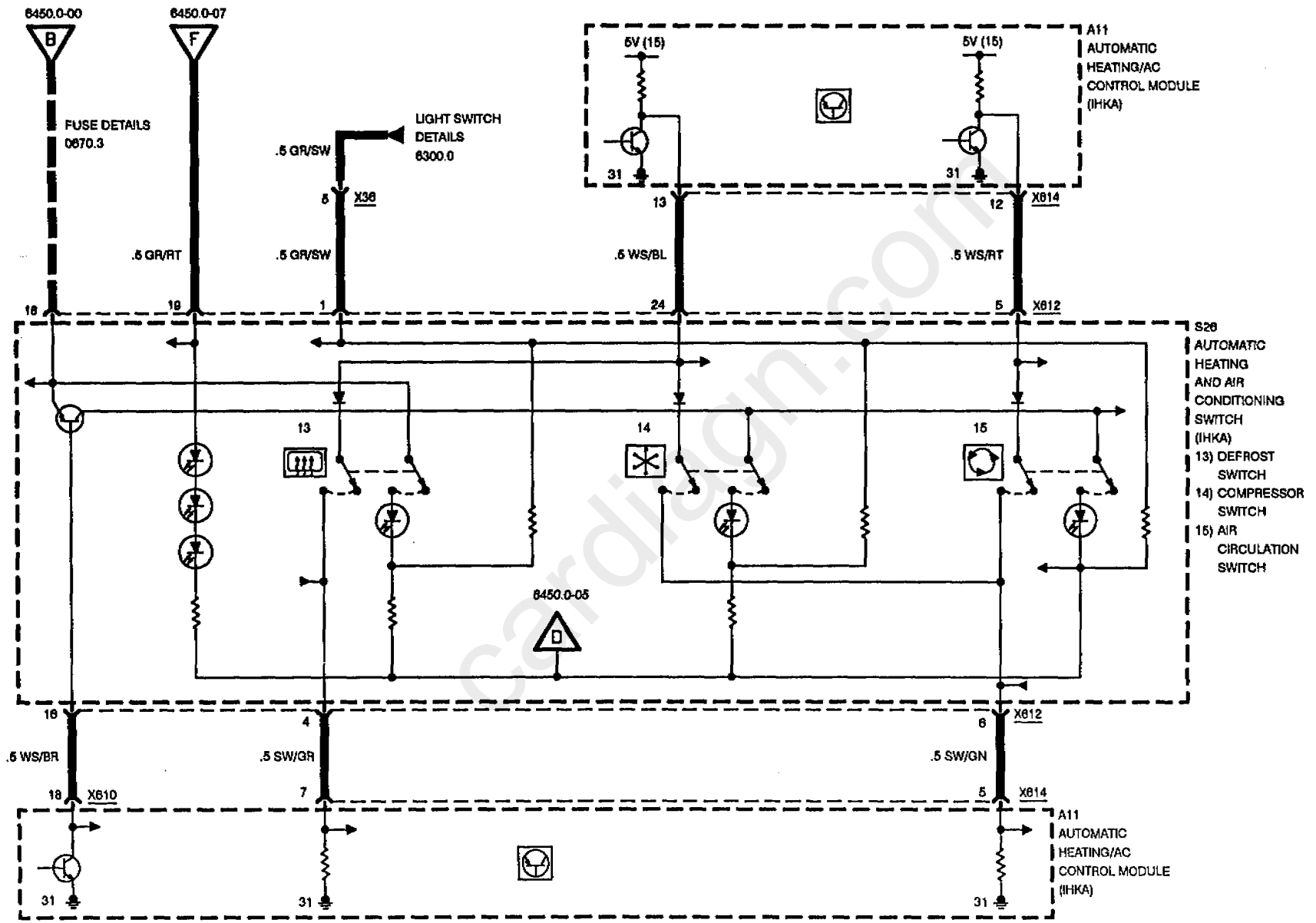
AIR DELIVERY



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

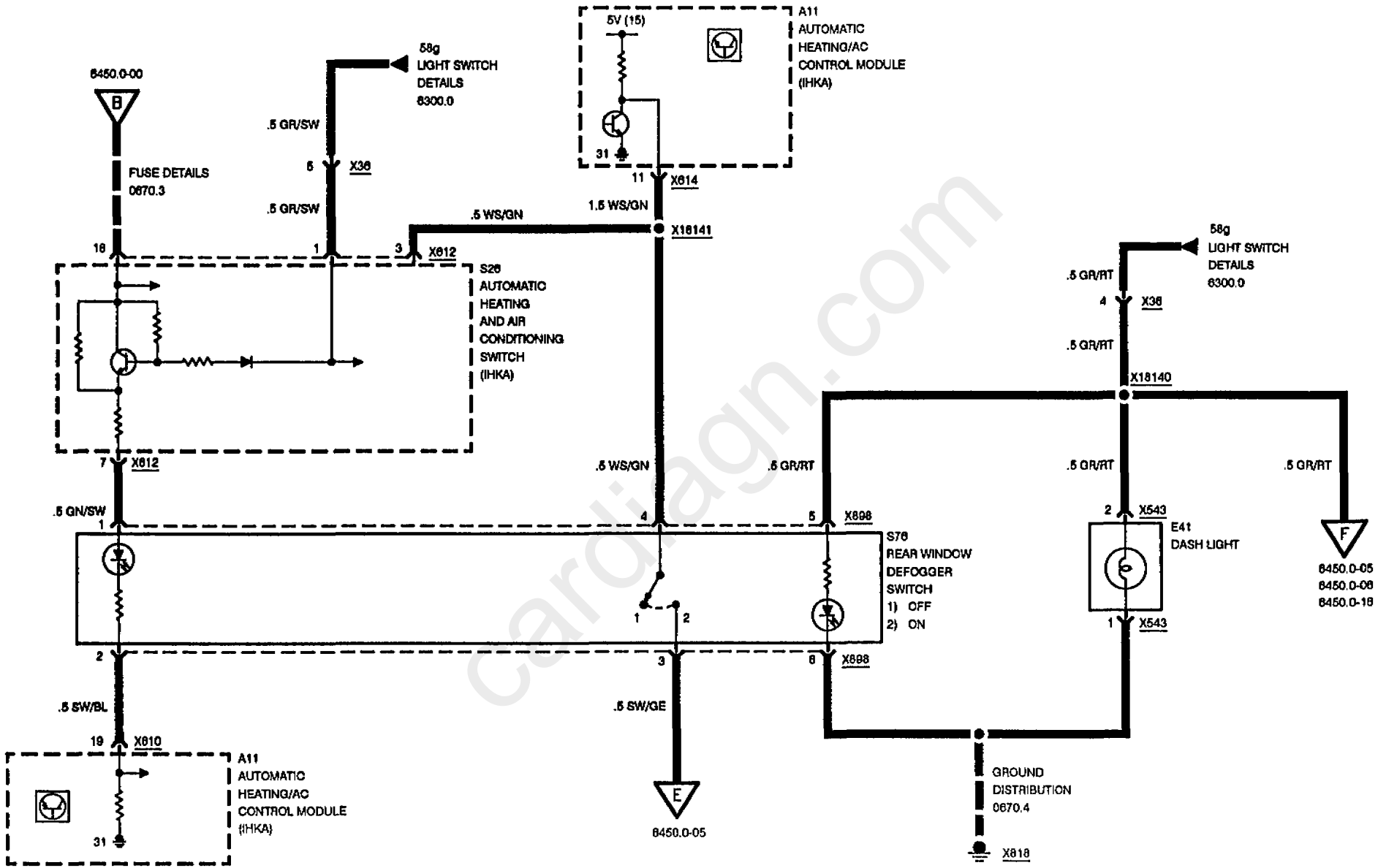
AIR DELIVERY



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

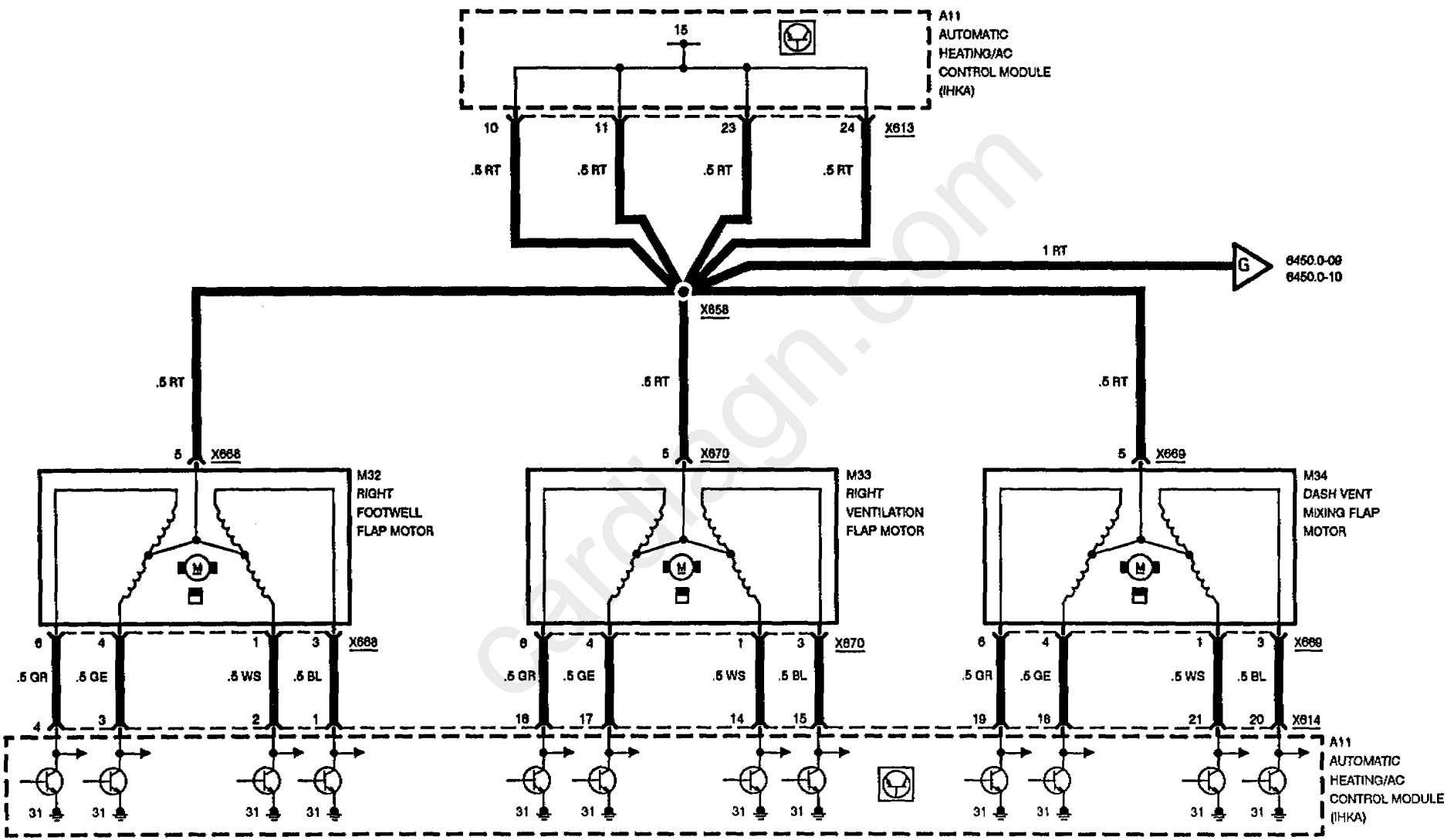
AIR DELIVERY



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

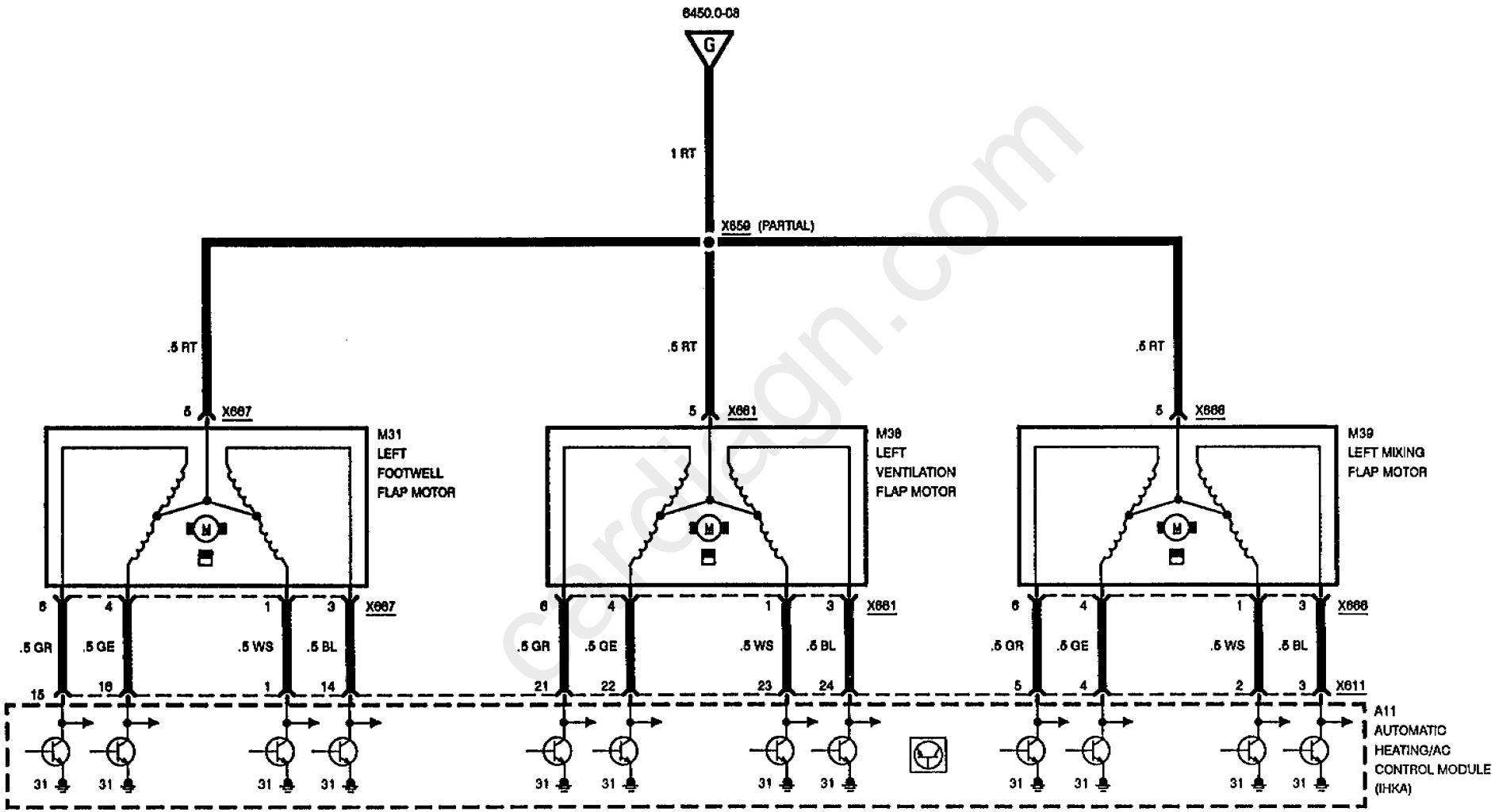
AIR DELIVERY



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

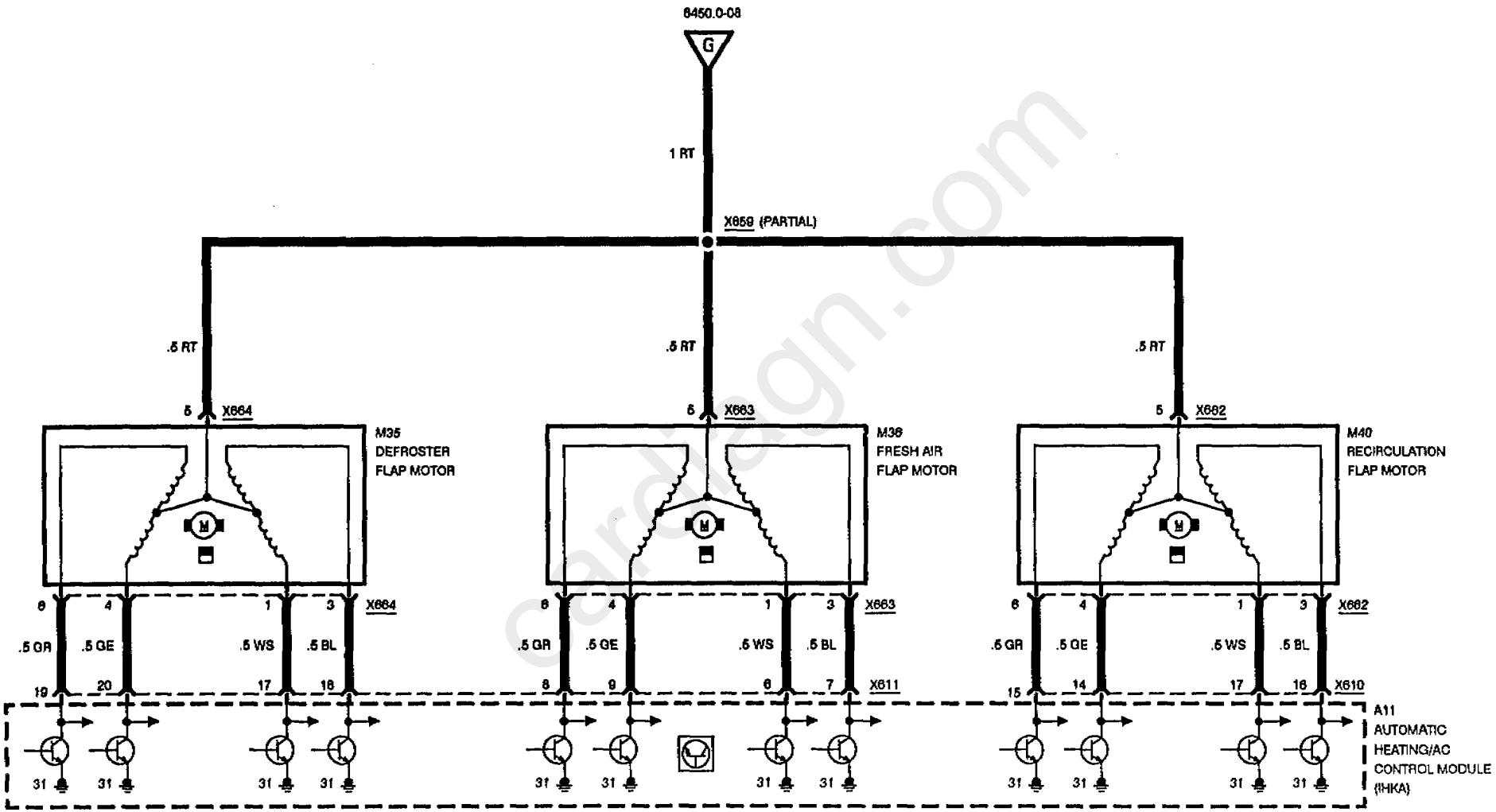
AIR DELIVERY



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

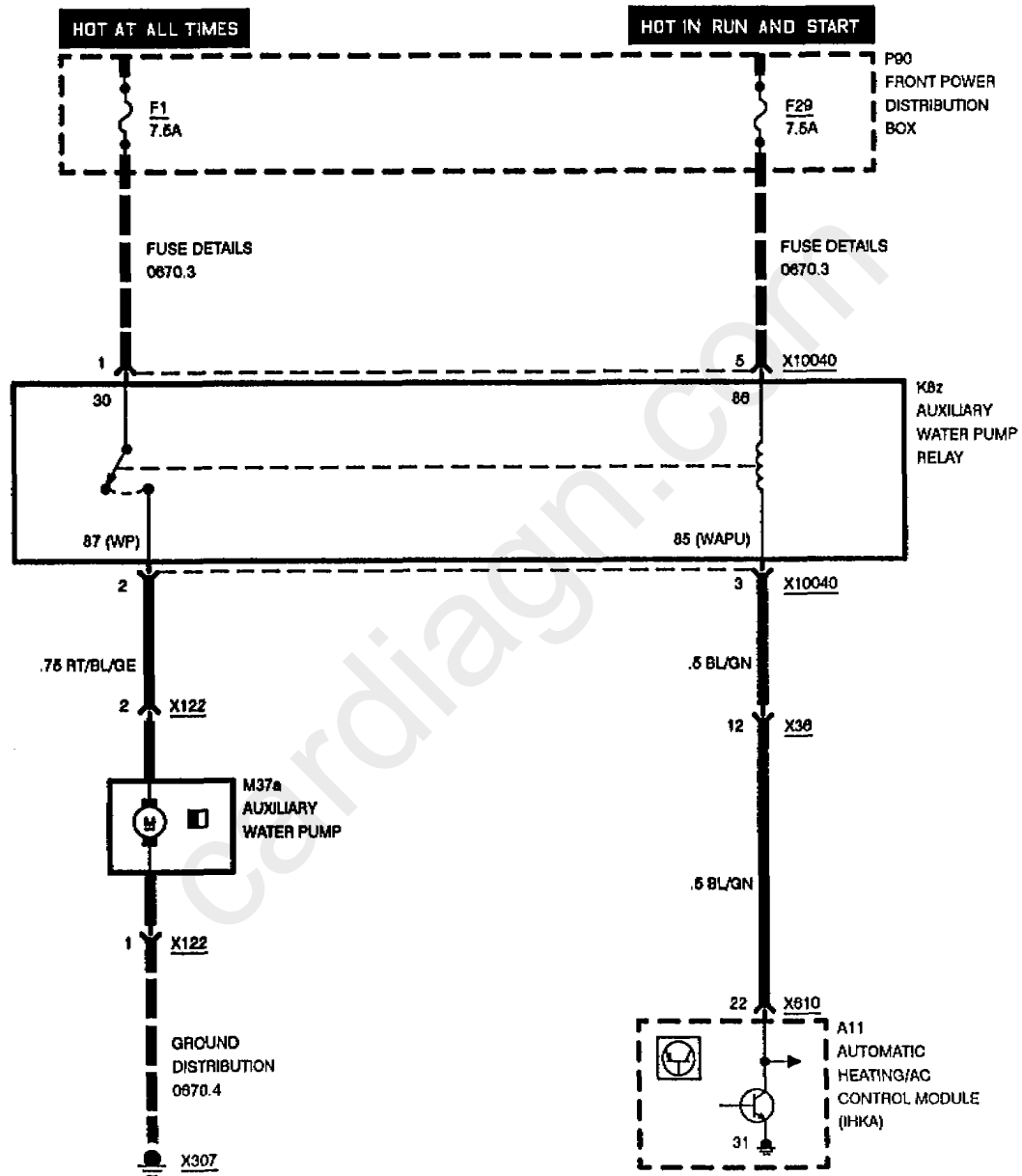
AIR DELIVERY



cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

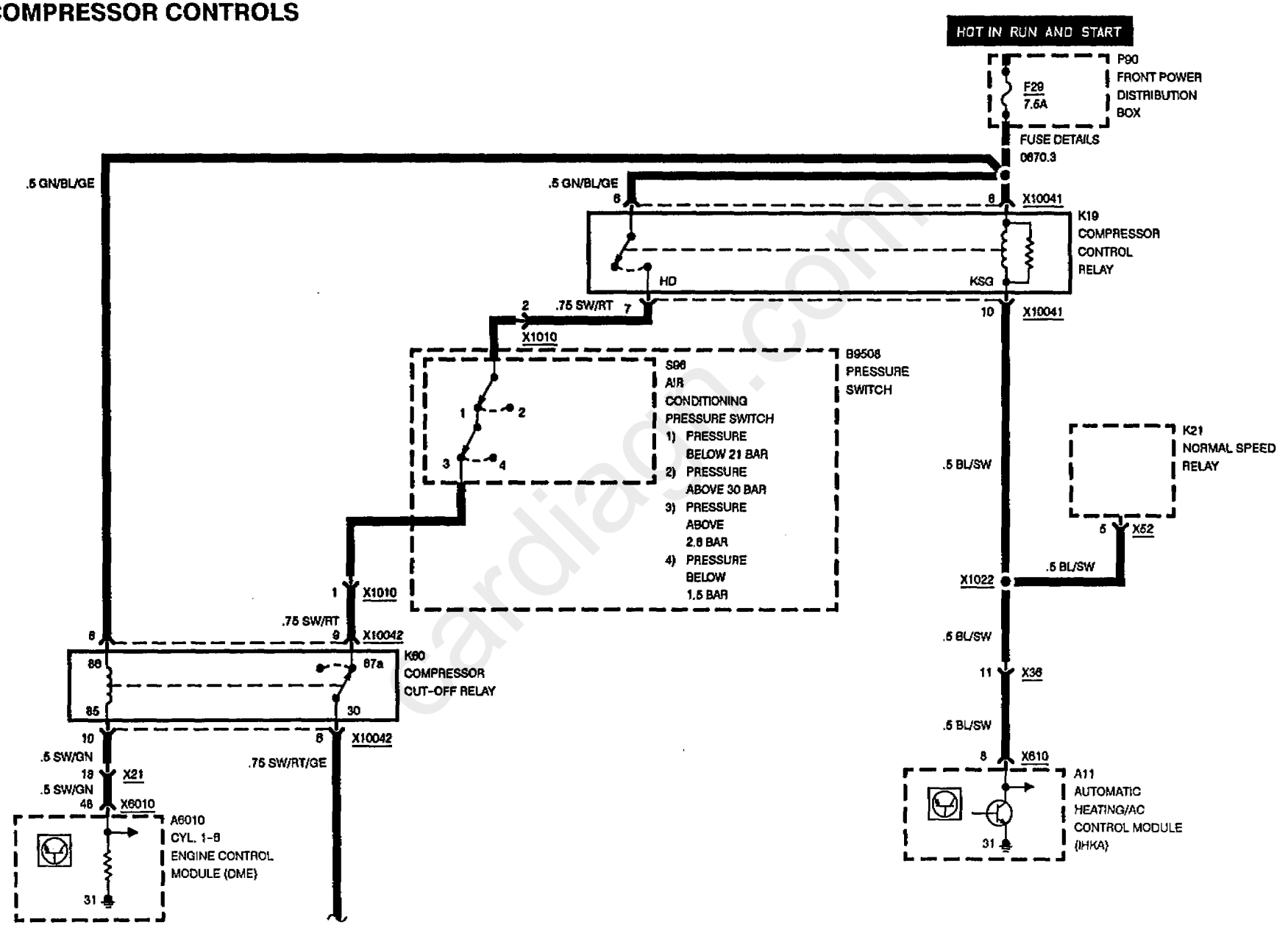
AUXILIARY WATER PUMP



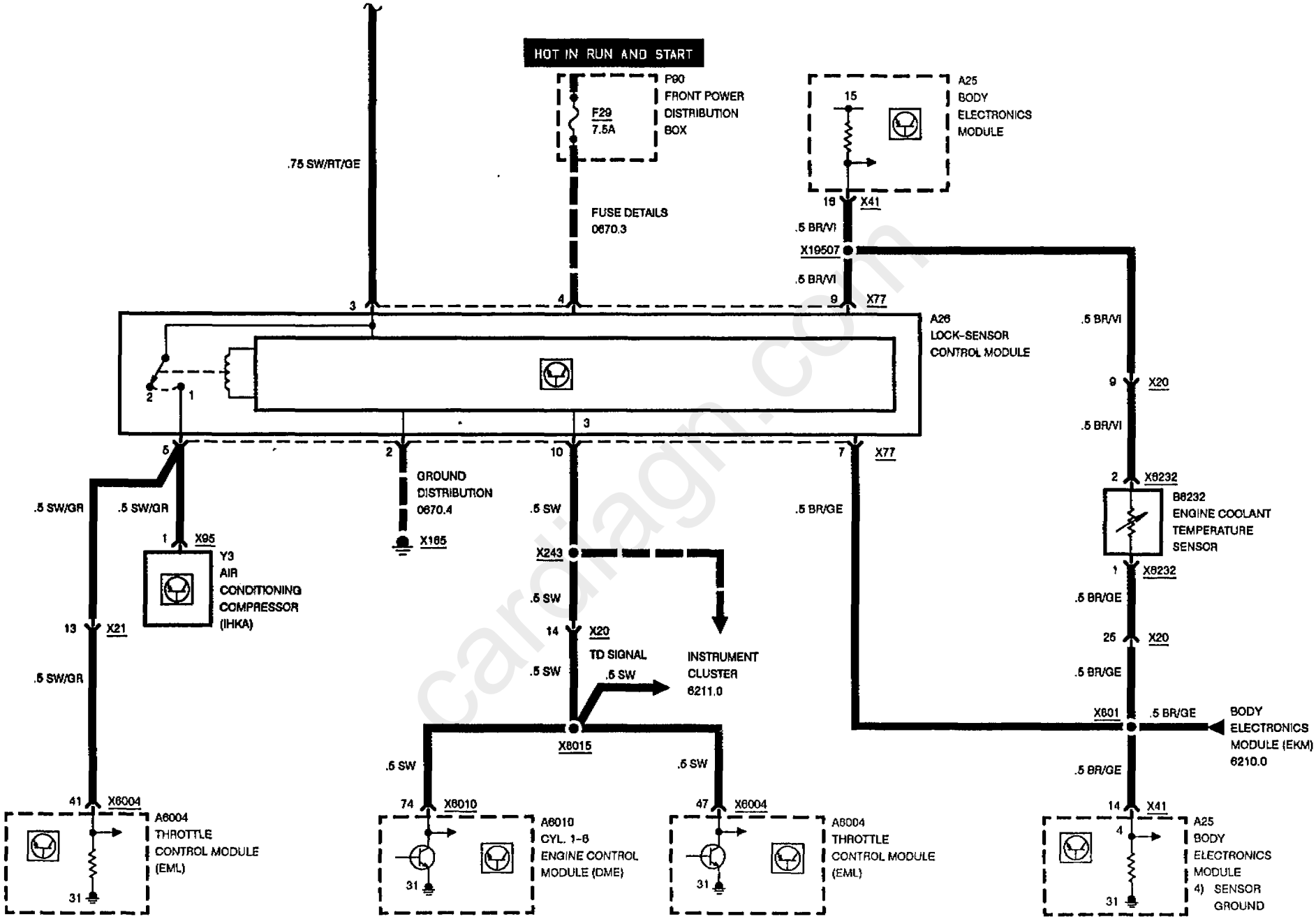
cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

COMPRESSOR CONTROLS



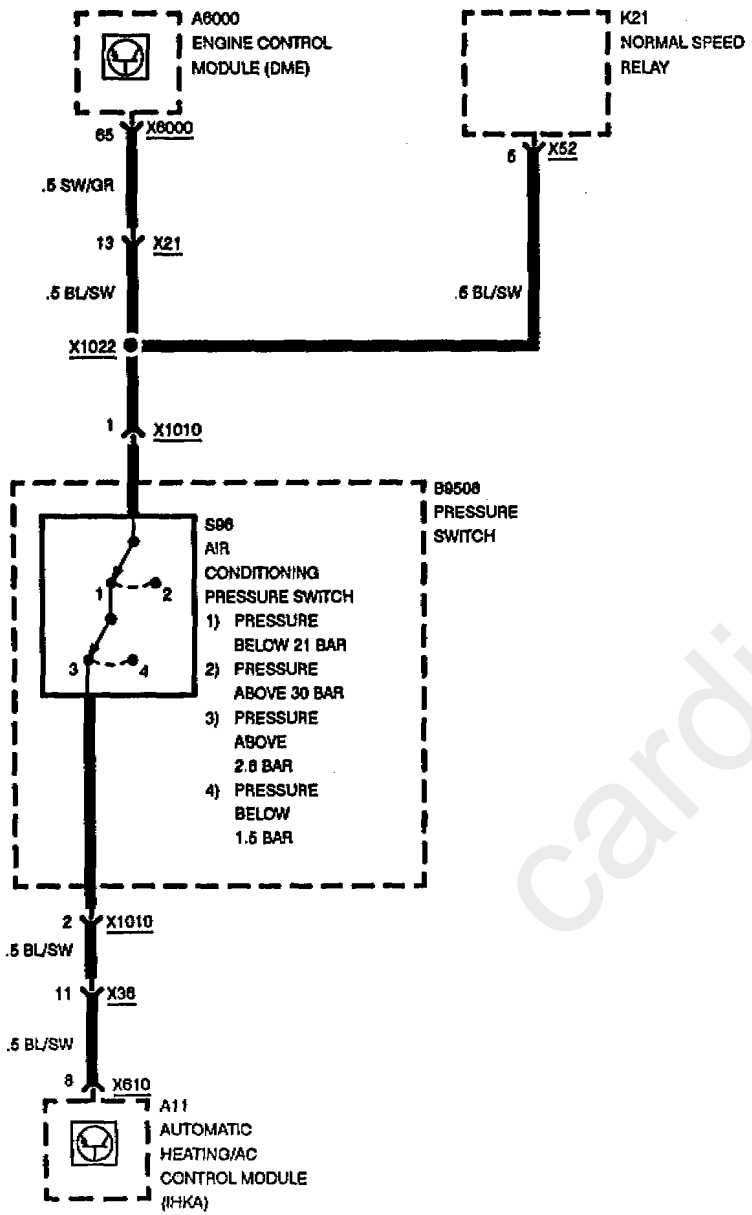
eardiagram.com

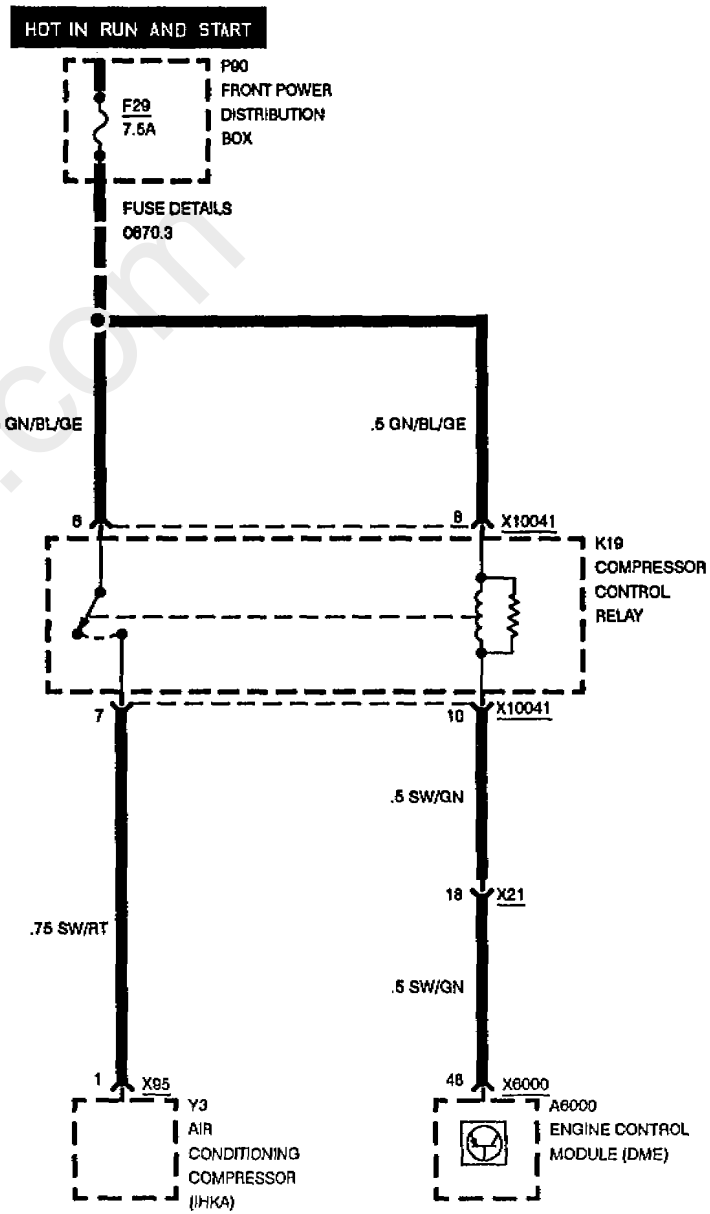

HOT IN RUN AND START
F29
7.5A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
.75 SW/RT/GE
A25
BODY
ELECTRONICS
MODULE
15
18
X41
.5 BR/VI
X19507
.5 BR/VI
9
X77
A26
LOCK-SENSOR
CONTROL MODULE
3
4
2
1
5
2
10
7
X77
.5 BR/VI
9
X20
.5 BR/VI
2
X6232
B6232
ENGINE COOLANT
TEMPERATURE
SENSOR
1
X6232
.5 BR/GE
25
X20
.5 BR/GE
.5 SW/GR
.5 SW/GR
1
X95
Y3
AIR
CONDITIONING
COMPRESSOR
(IHKA)
GROUND
DISTRIBUTION
0670.4
X165
.5 SW
X243
.5 BR/GE
13
X21
.5 SW/GR
.5 SW
14
X20
TD SIGNAL
.5 SW
.5 SW
INSTRUMENT
CLUSTER
6211.0
X601
.5 BR/GE
BODY
ELECTRONICS
MODULE (EKM)
6210.0
X8015
.5 SW
.5 SW
.5 BR/GE
41
X6004
A6004
THROTTLE
CONTROL MODULE
(EML)
31
74
X6010
A6010
CYL. 1-6
ENGINE CONTROL
MODULE (DME)
31
47
X6004
A6004
THROTTLE
CONTROL MODULE
(EML)
31
14
X41
A25
BODY
ELECTRONICS
MODULE
4) SENSOR
GROUND
4
31

AUTOMATIC HEATING/AC CONTROL (IHKA)

840Ci

COMPRESSOR CONTROLS

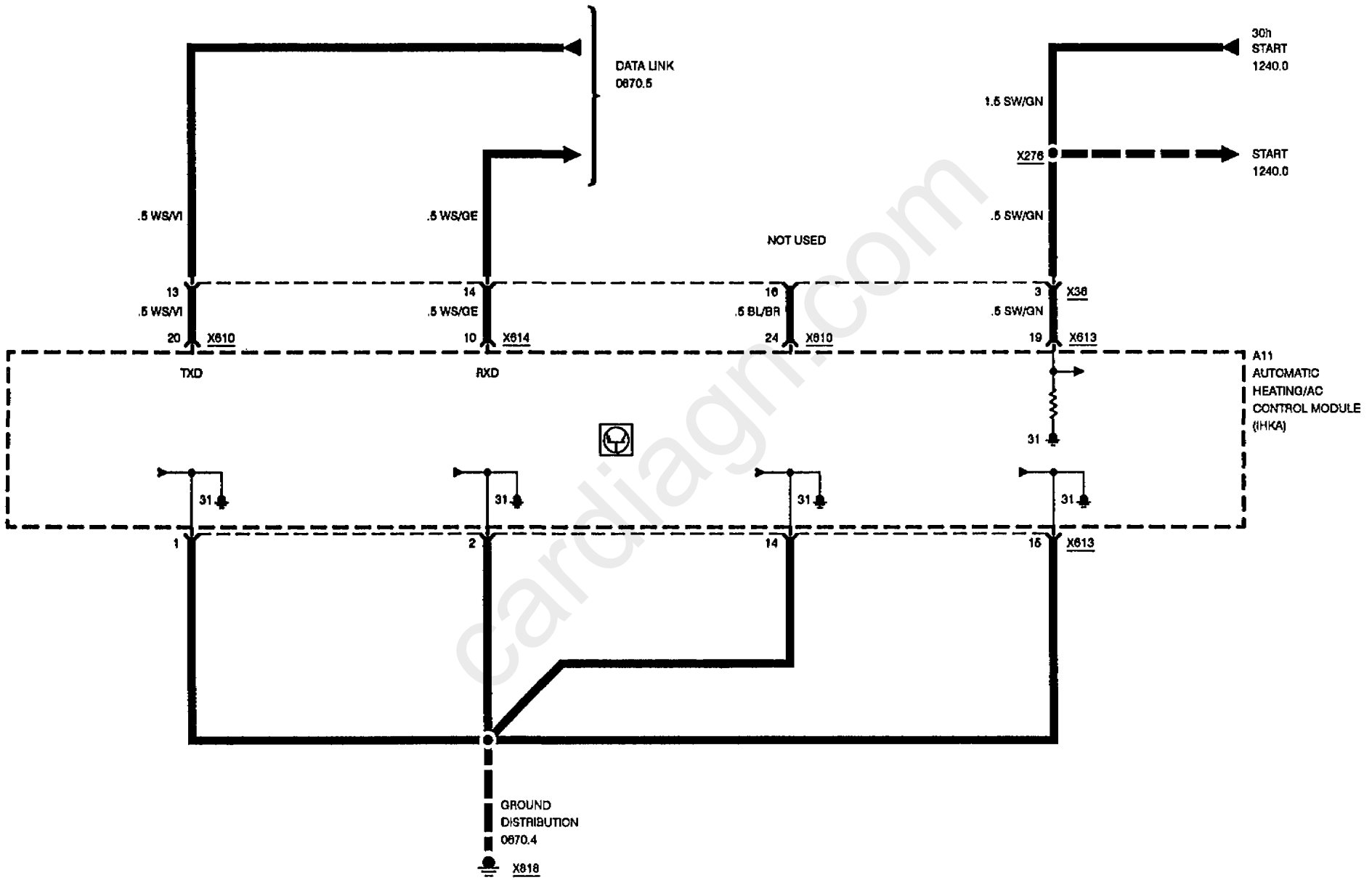




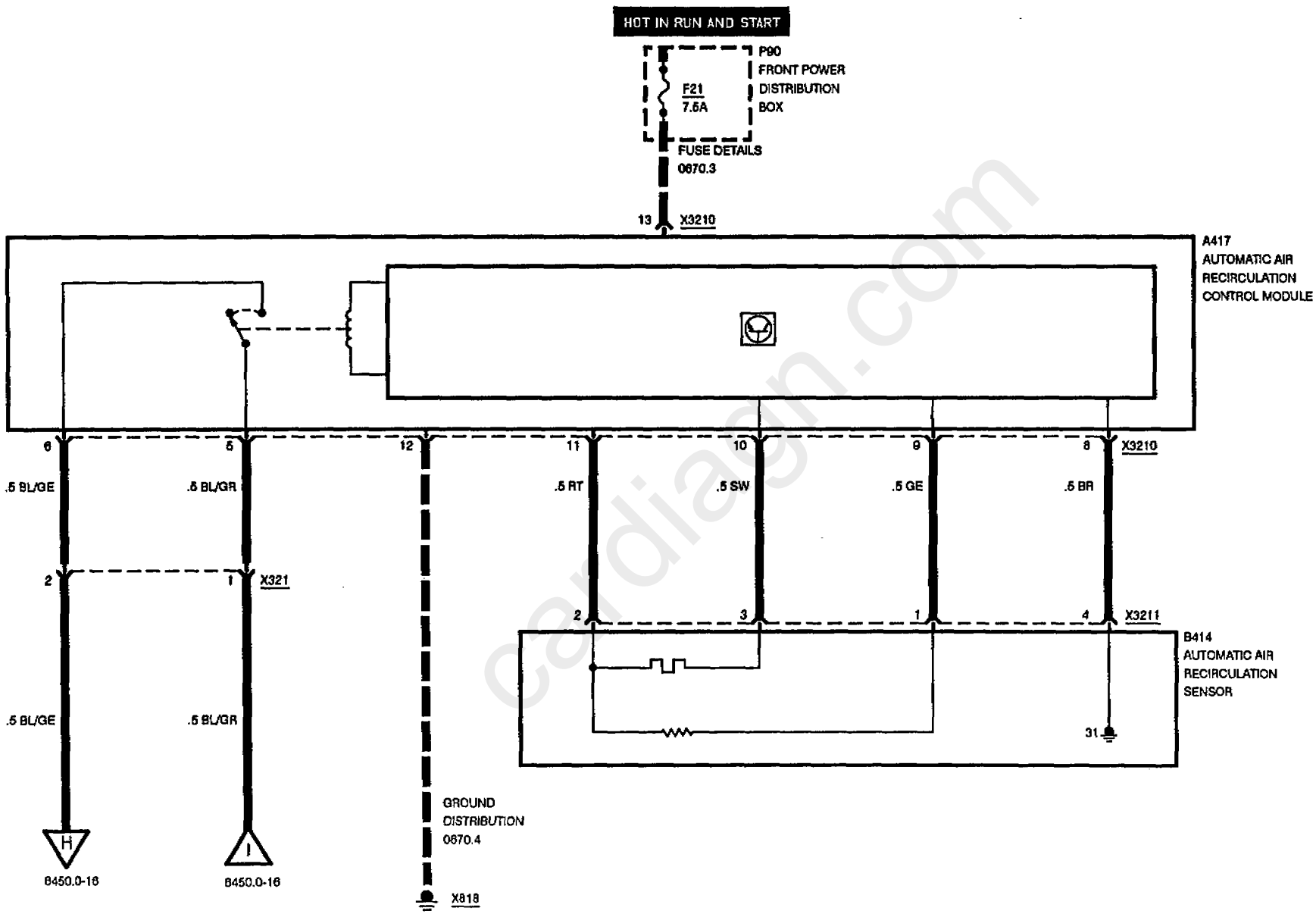
cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

DATA LINK AND STARTER INPUT



cardiagn.com

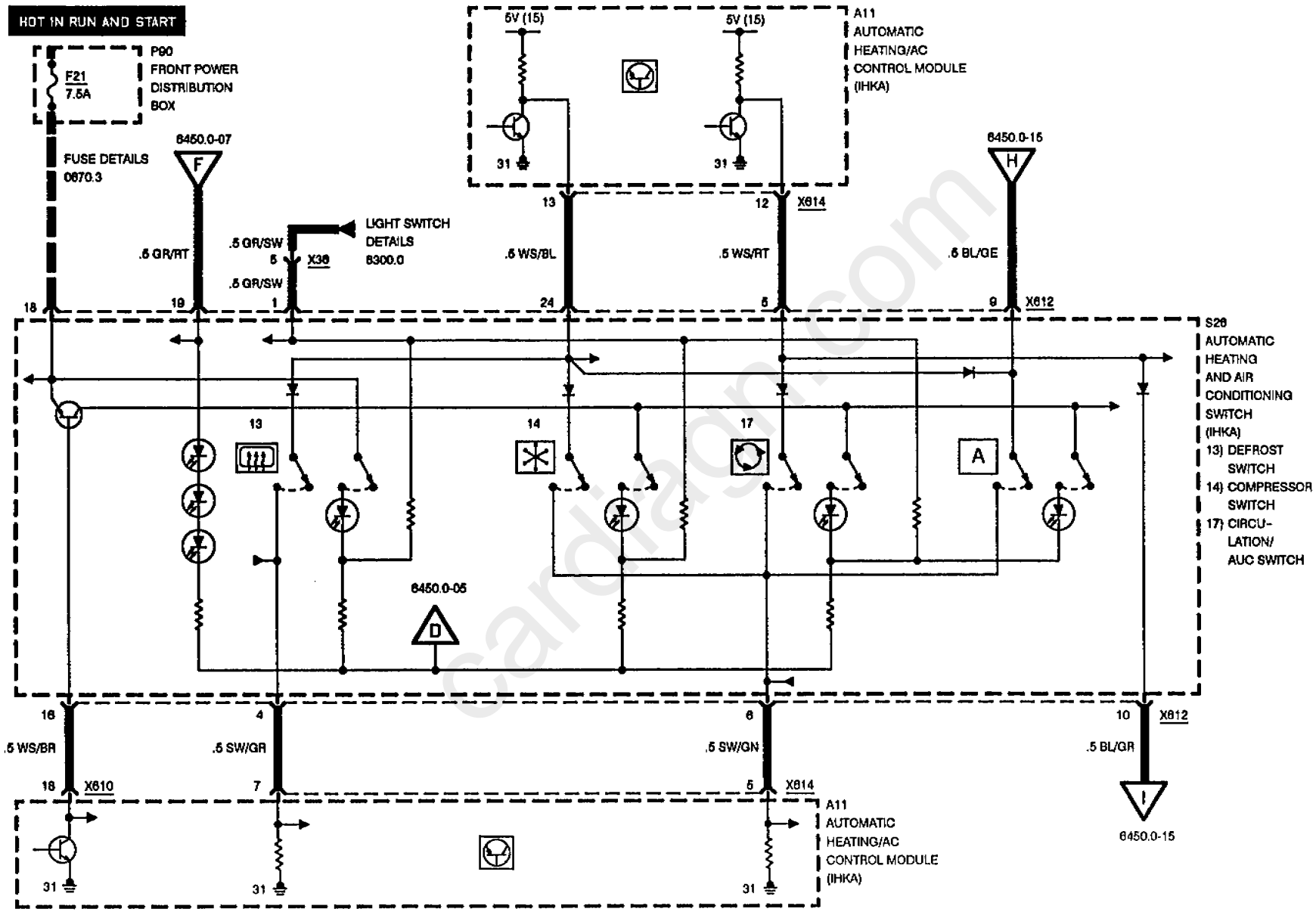


cardiagn.com

AUTOMATIC HEATING/AC CONTROL (IHKA)

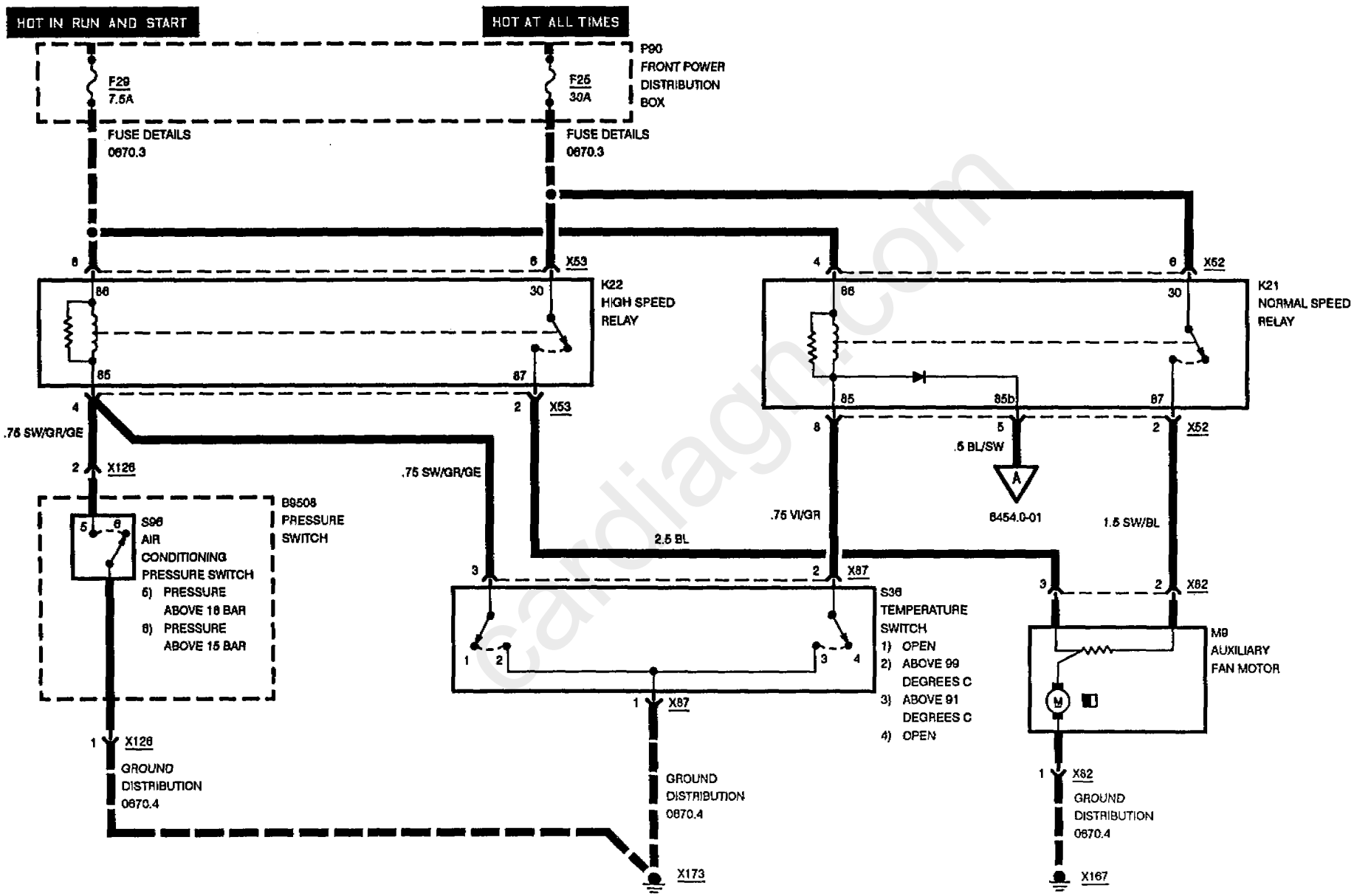
CDN

AUC



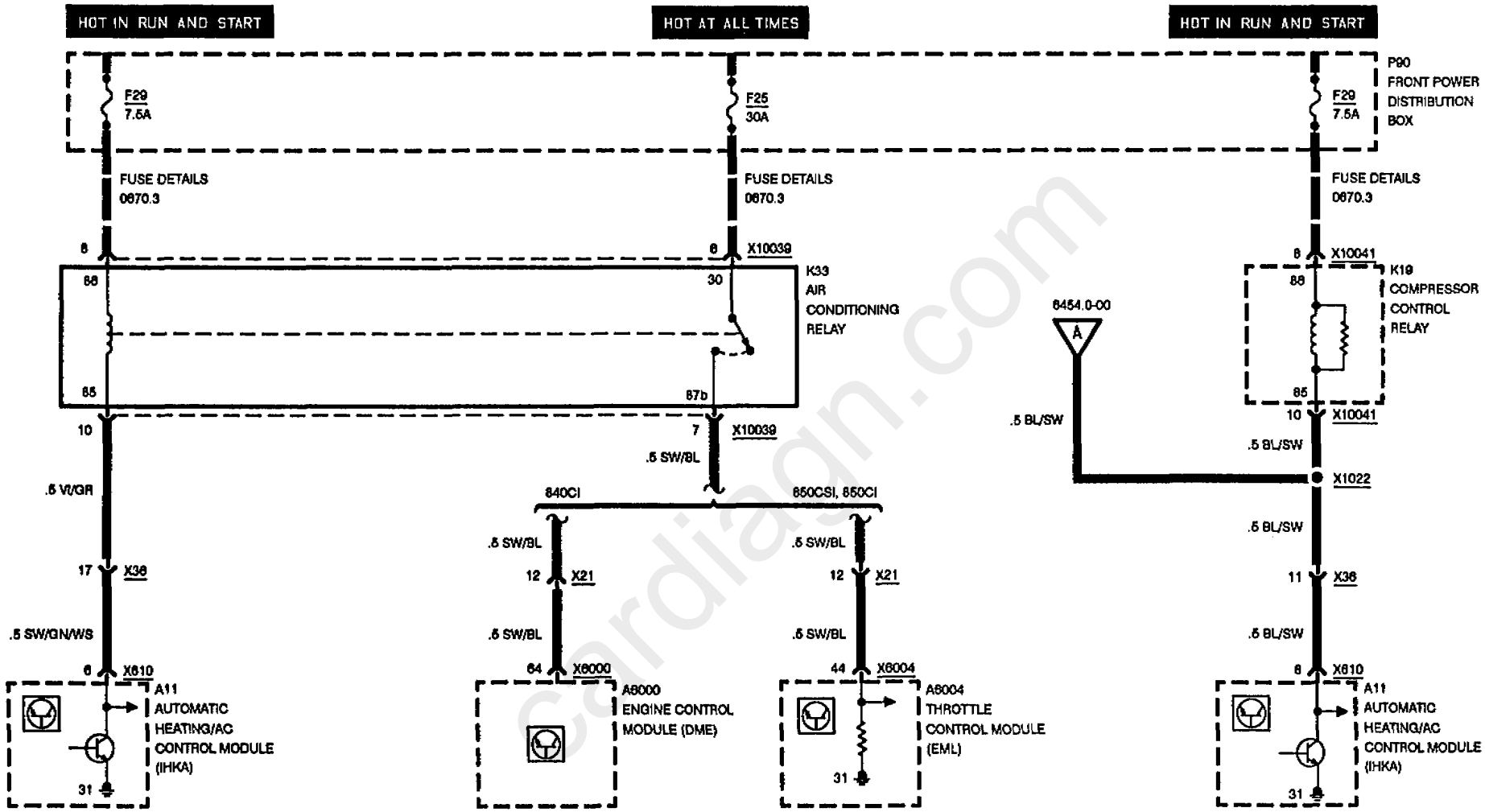
cardiagn.com

AUXILIARY FAN



cardiagn.com

AUXILIARY FAN



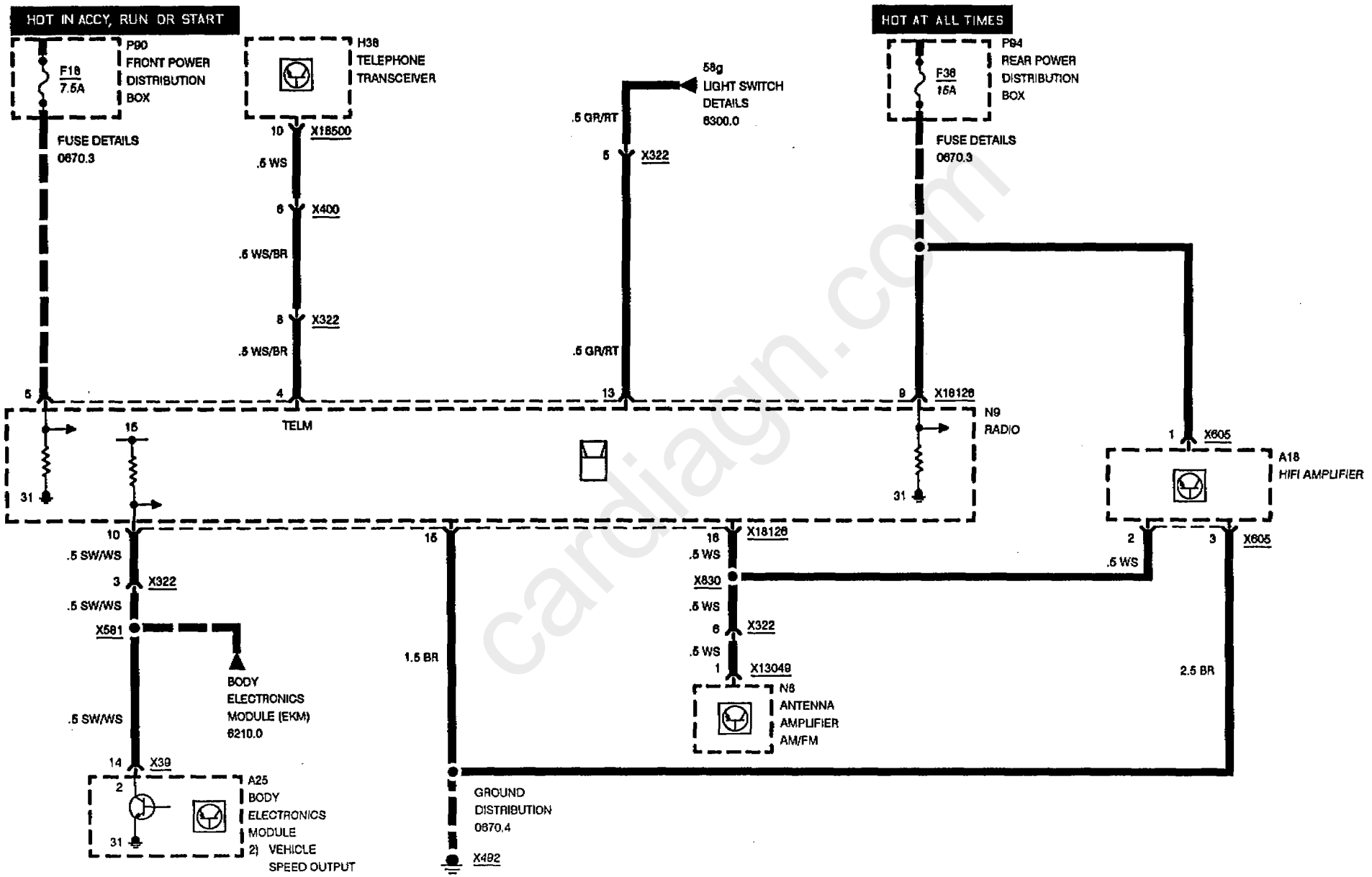
cardiagn.com

cardiagn.com

cardiagn.com

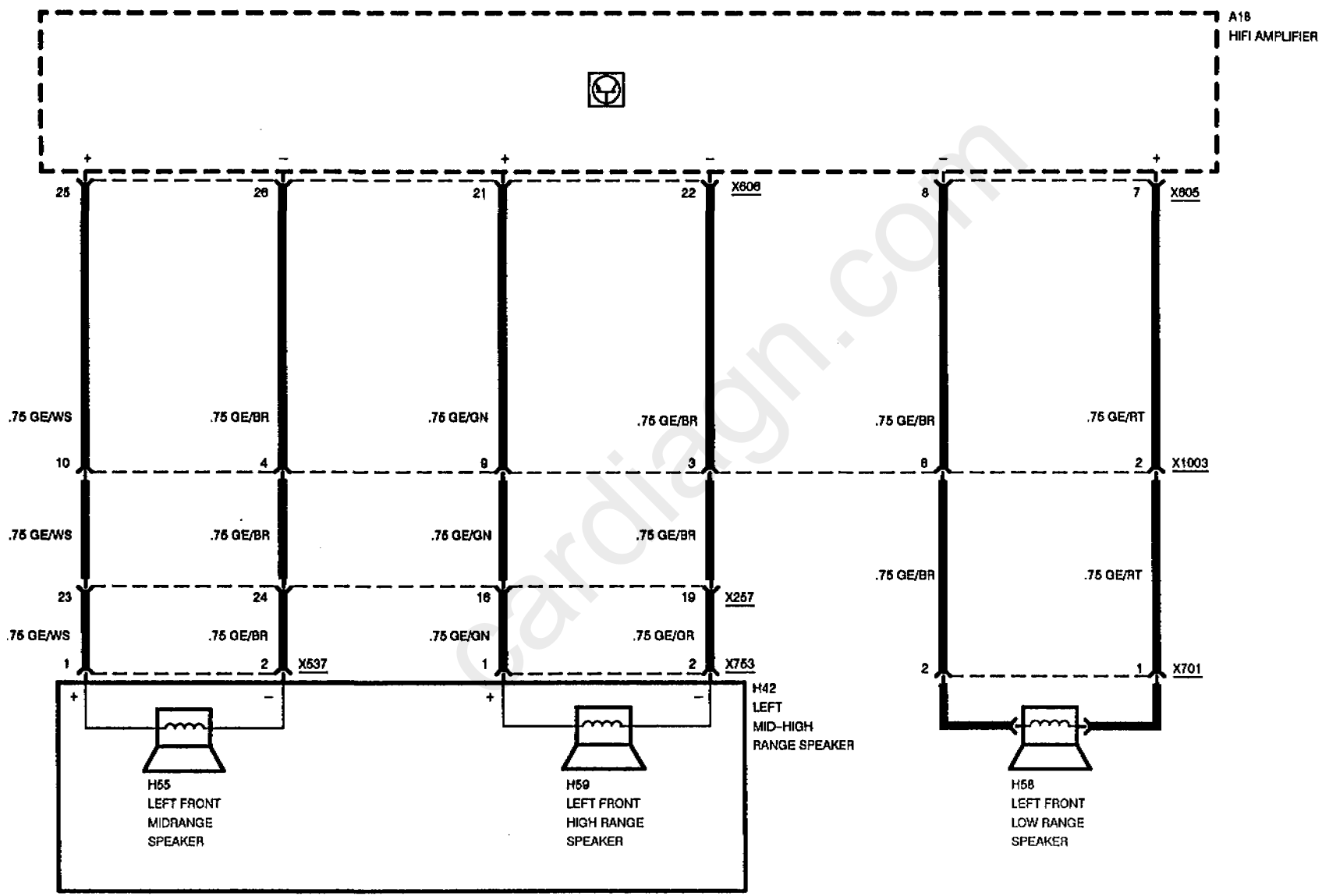
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM



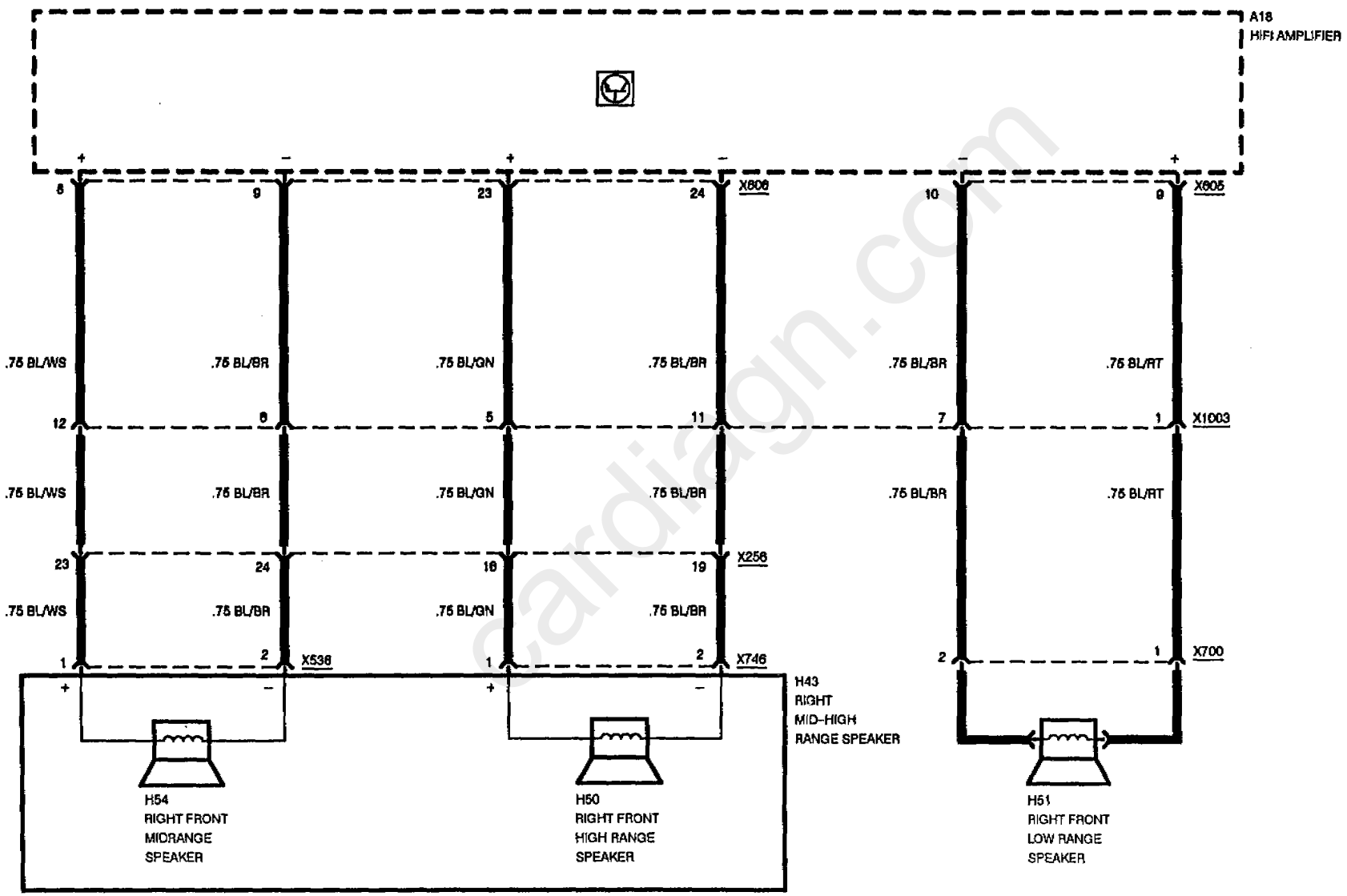
cardiagn.com

HIFI, 10-SPEAKER SYSTEM



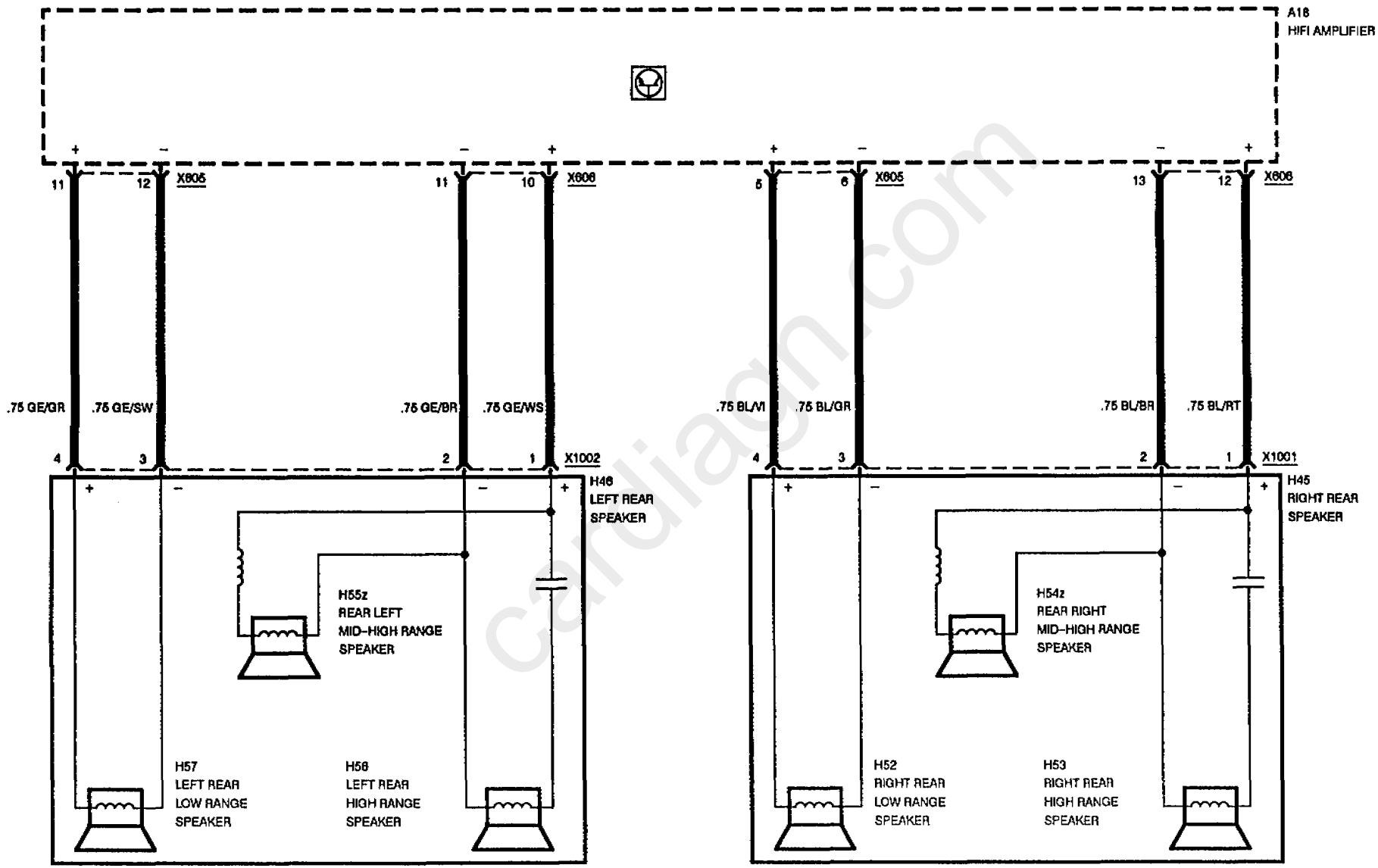
cardiagn.com

HIFI, 10-SPEAKER SYSTEM



cardiagn.com

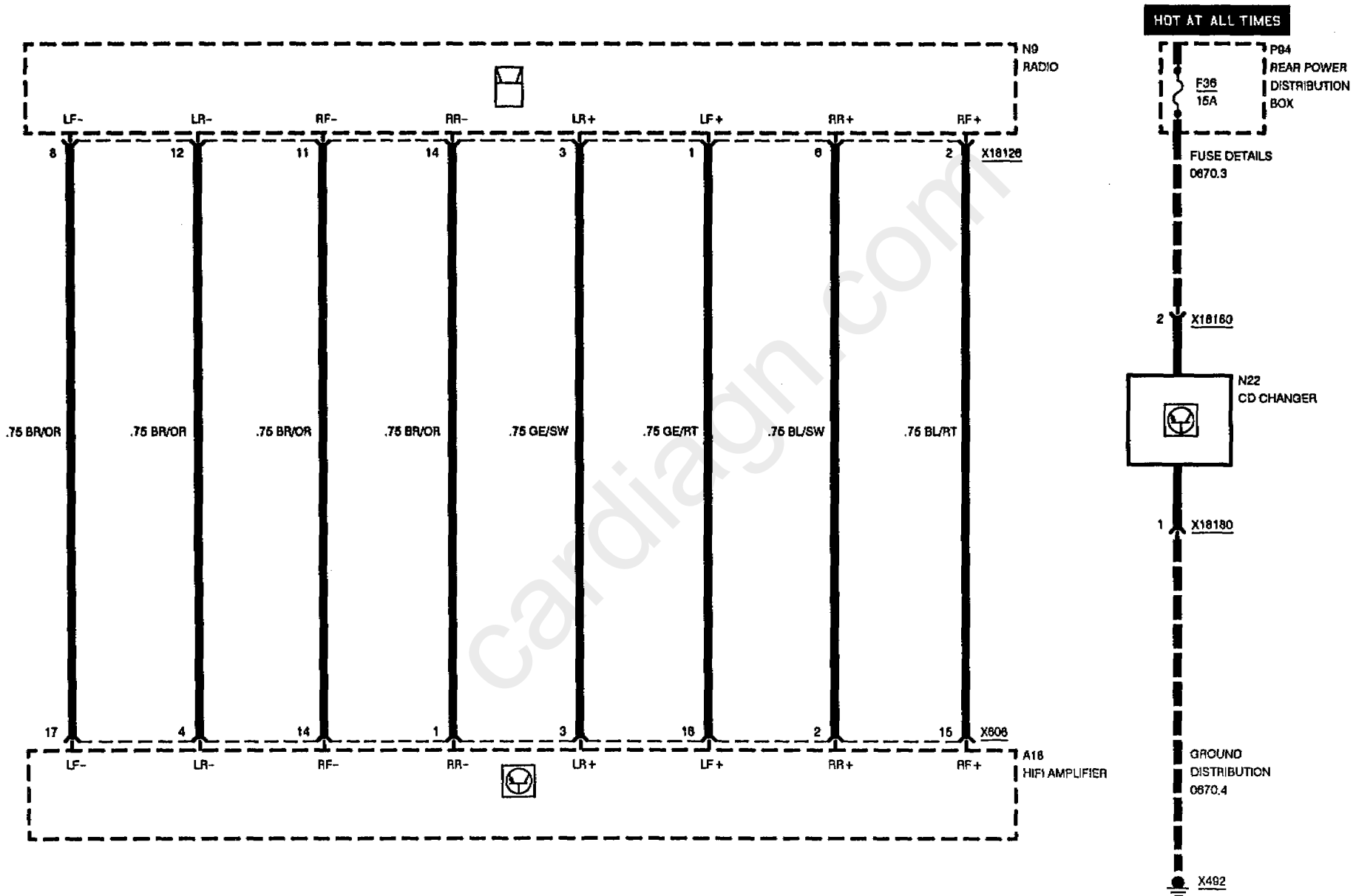
HIFI, 10-SPEAKER SYSTEM



cardiagn.com

RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM (ONE COMPONENT)

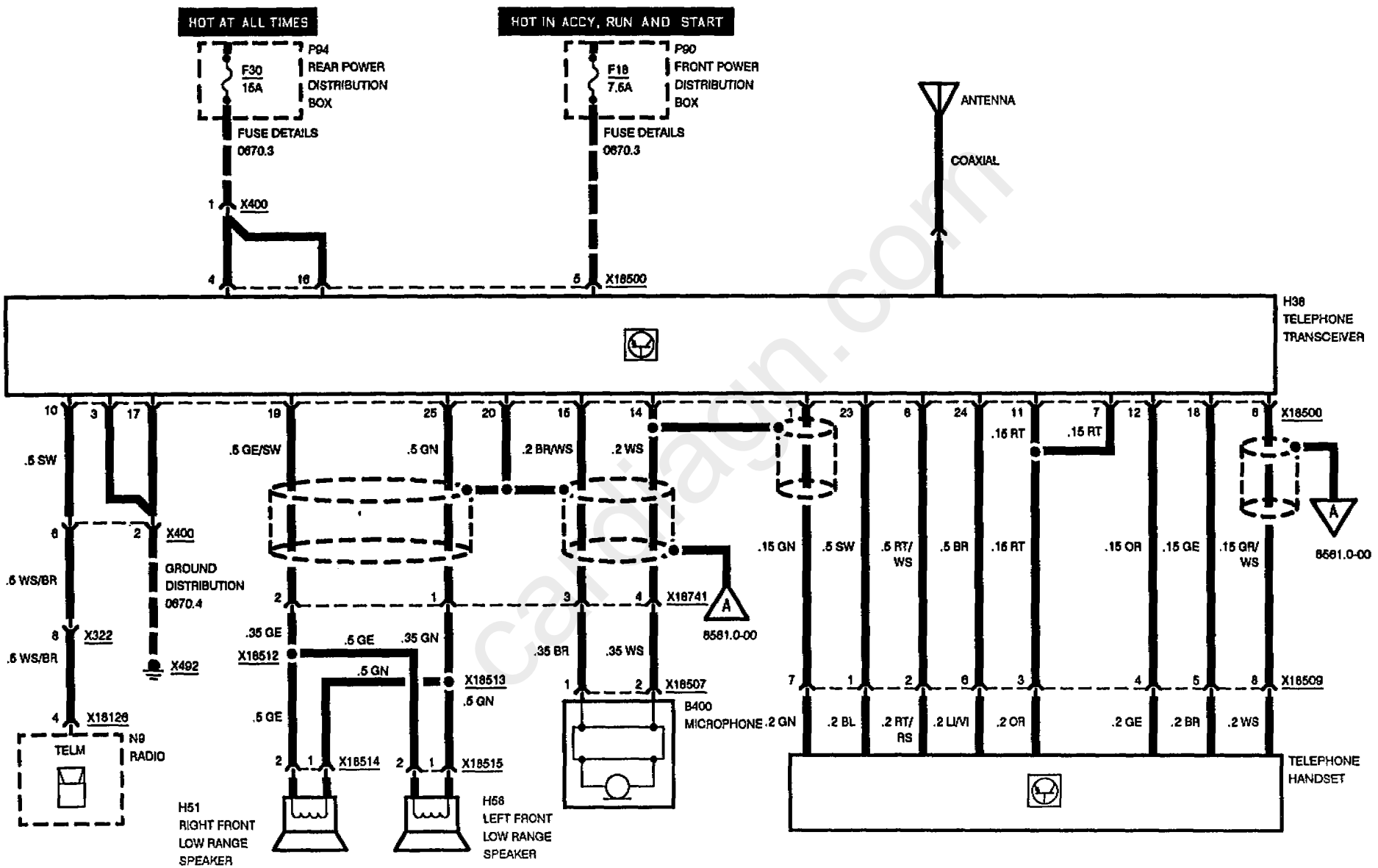


cardiagn.com

cardiagn.com

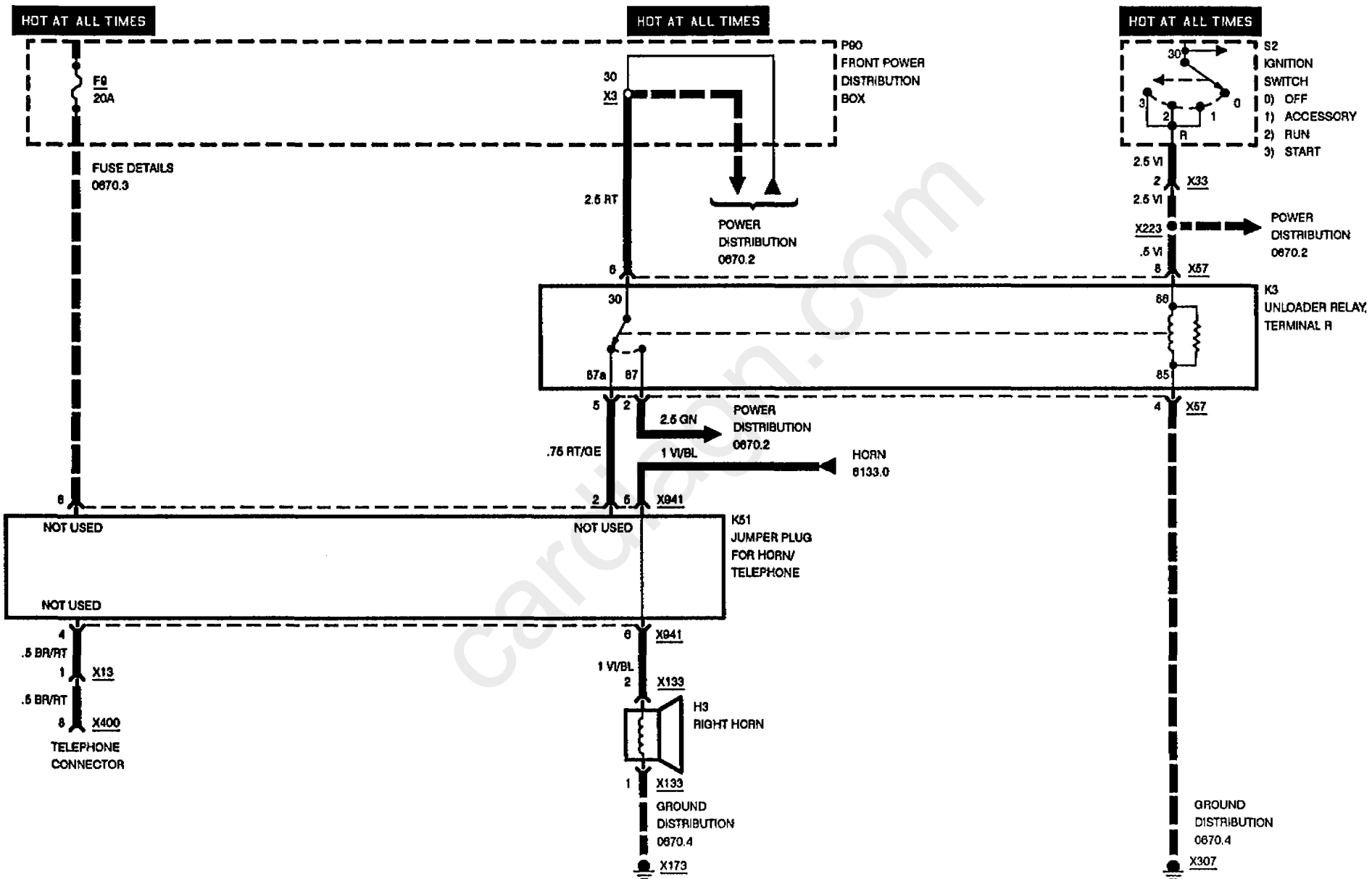
CELLULAR TELEPHONE (PROVISIONS)

AMPS SYSTEM



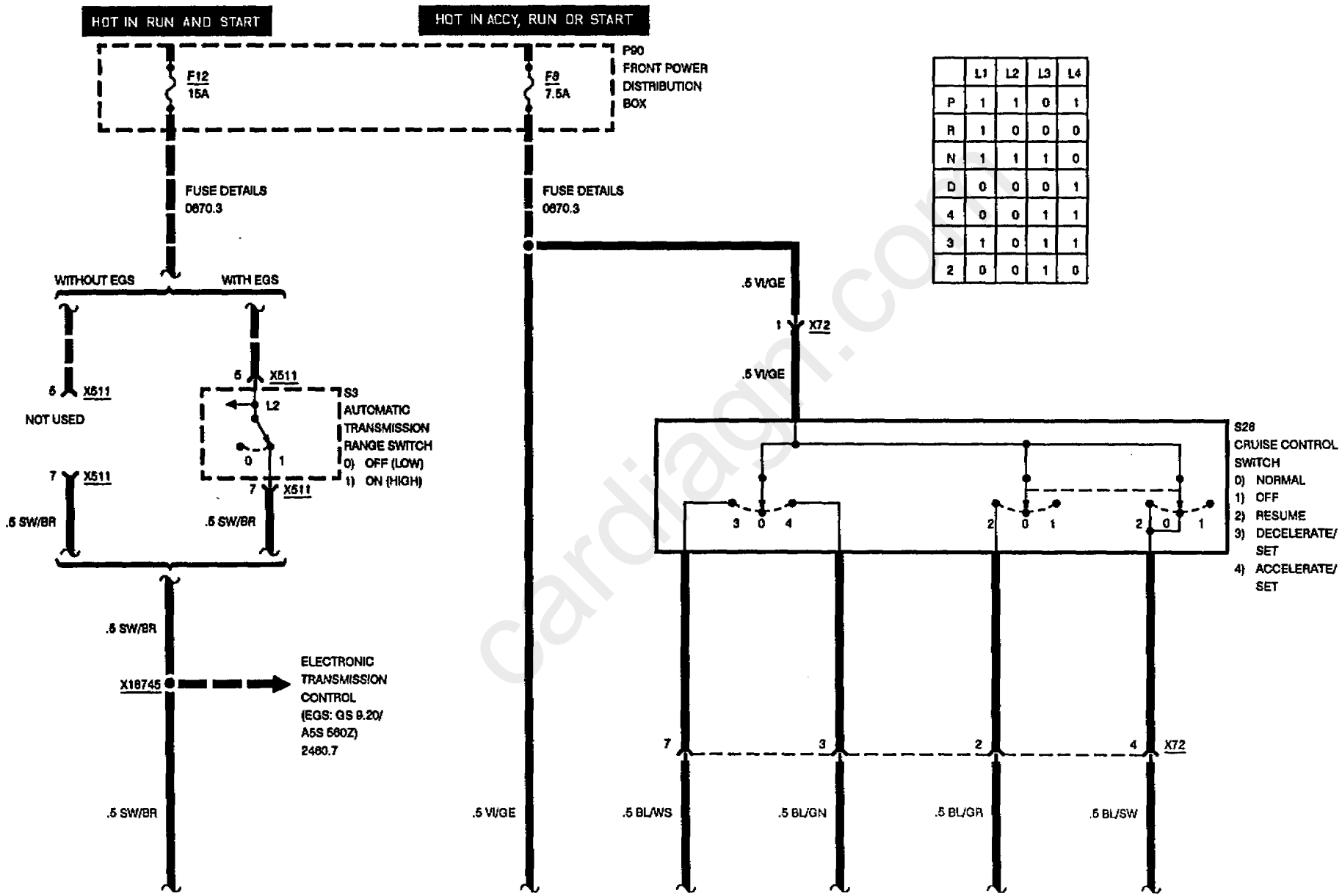
cardiagn.com

CELLULAR TELEPHONE (PROVISIONS)



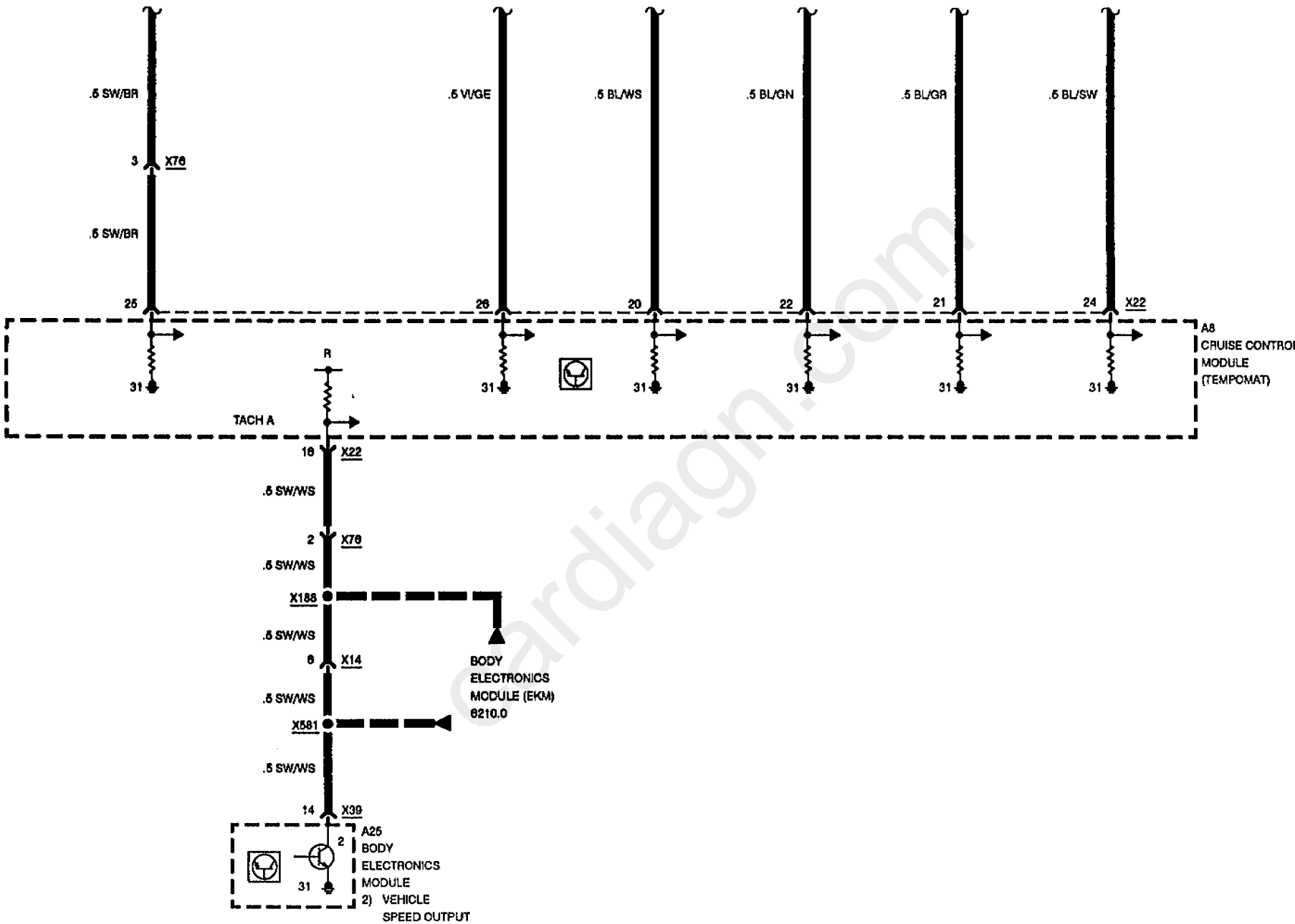
cardiagn.com

CRUISE CONTROL (TEMPOMAT)



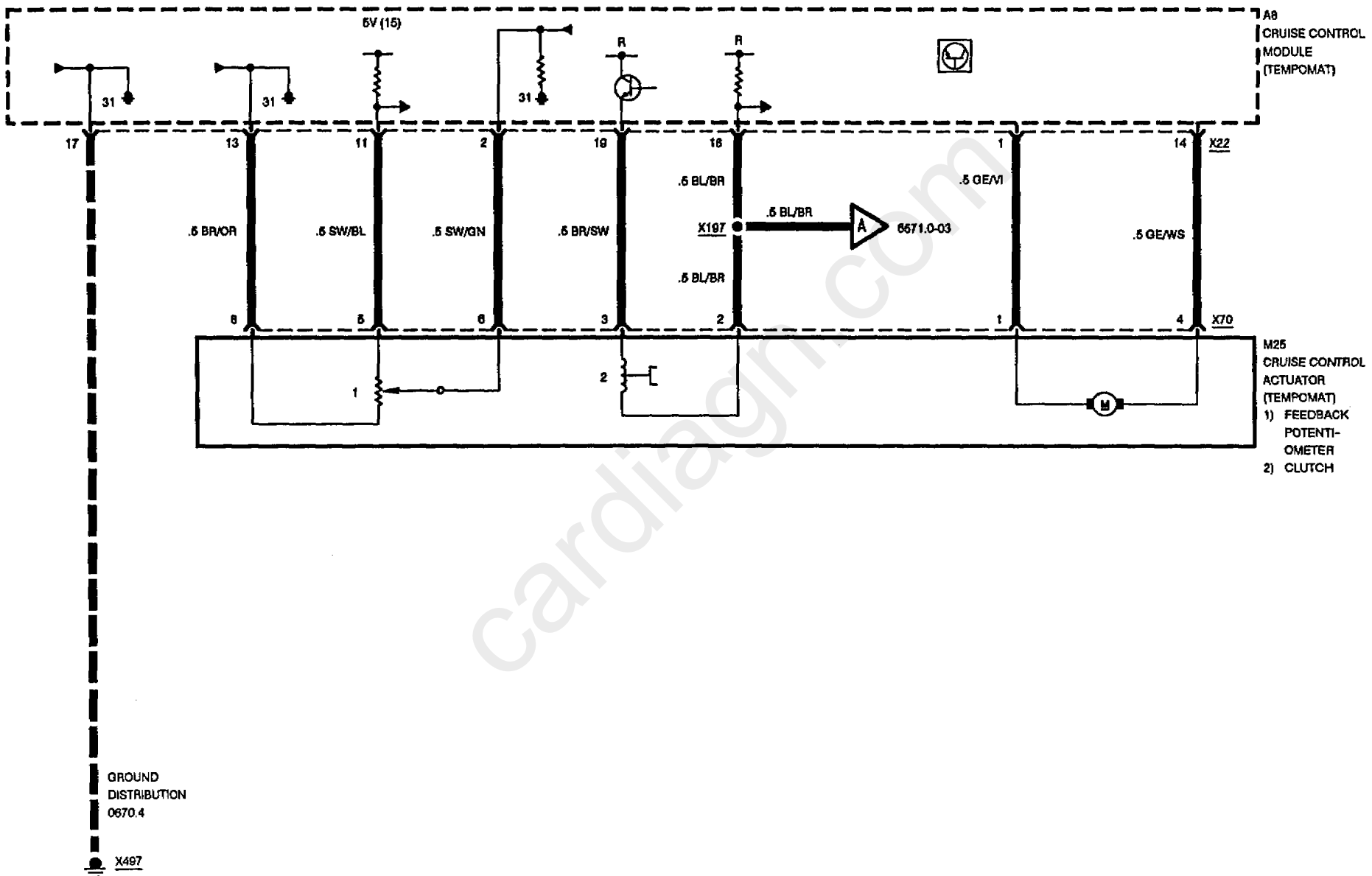
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

cardiagn.com



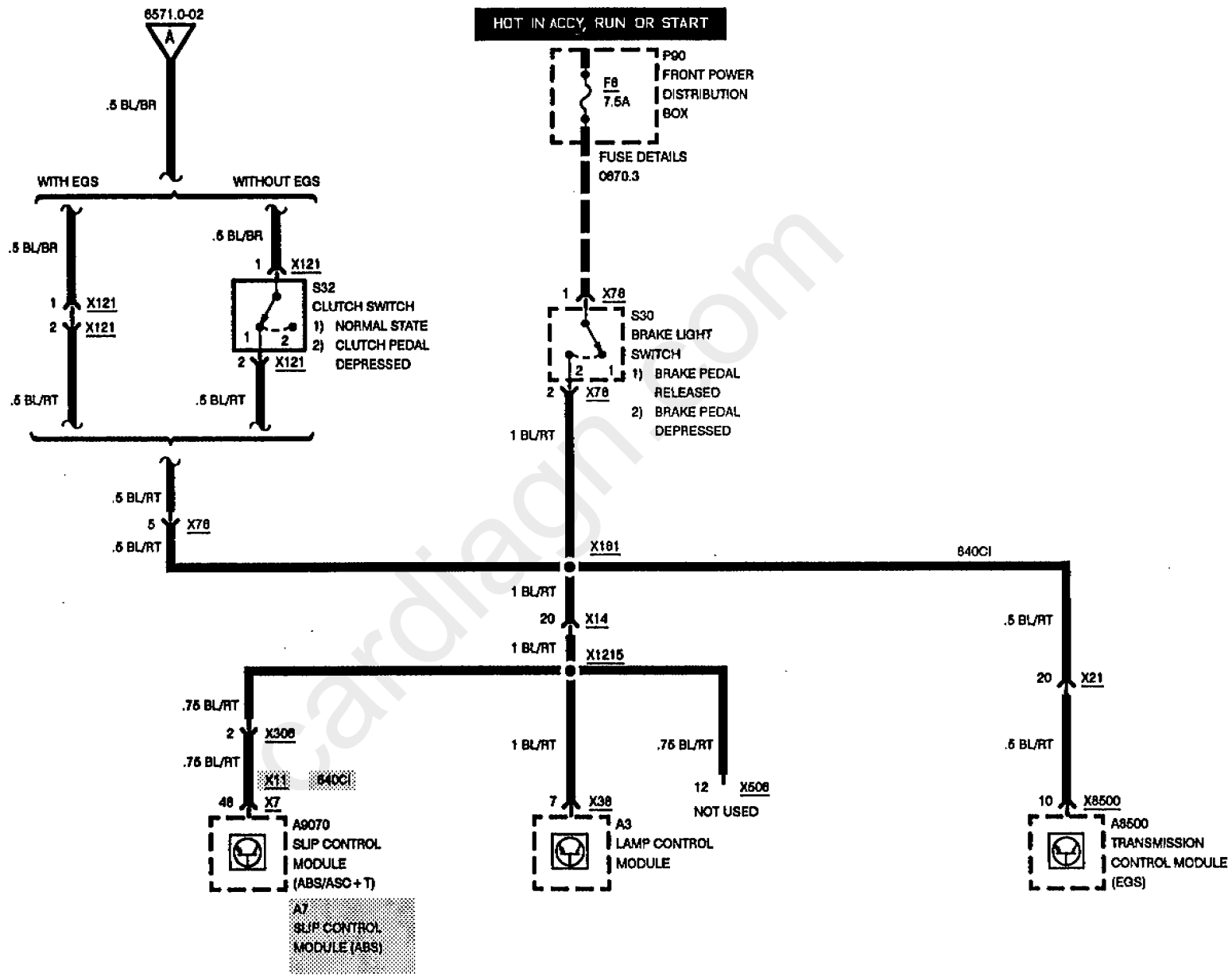
cardiagn.com

CRUISE CONTROL (TEMPOMAT)



cardiagn.com

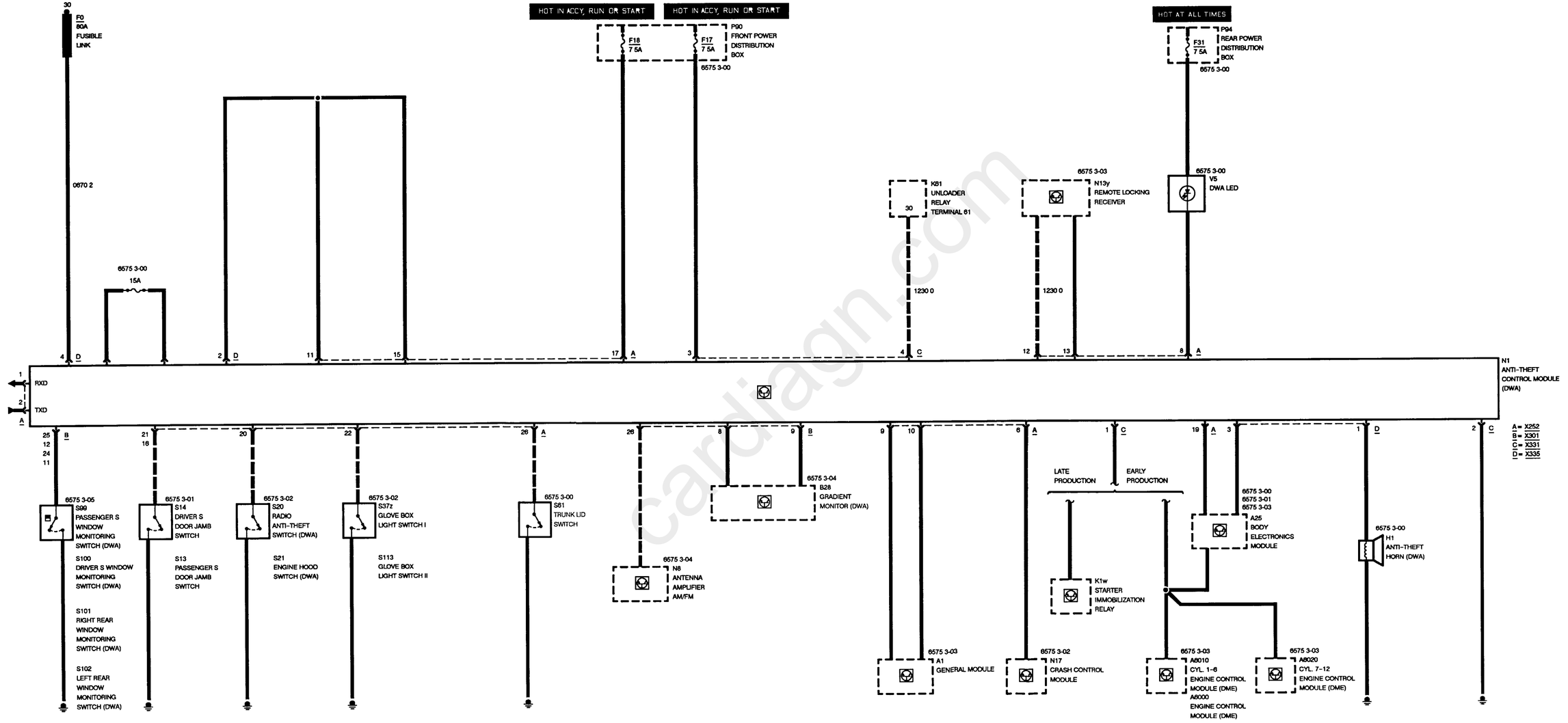
CRUISE CONTROL (TEMPOMAT)



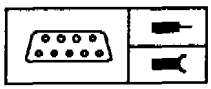
cardiagn.com

carldiagn.com

12/94 6575.3 1994
12/94 6575 3 1994



cardiagn.com



Pin Assignments

A=X252	26 pins, black
B=X301	26 pins, natural
C=X331	5 pins, black
D=X335	4 pins, black

X252

Pin	Type	Description/Function	Connection
1	E	Not used	Diagnostic connector
2	E/A	Diagnostic link RxD	Diagnostic connector
3		Not used	
4		Not used	
5		Not used	
6	A	Flash exterior lamps signal	Crash control unit
7		Not used	
8	A	Status-LED	DWA LED
9	E	Lock signal ZS1N	General module
10	E	Lock signal ZS1	General module
11	E	Lock signal ZS21 simulation	Connector Terminal 30
12	E	Interface RC Locking System	Remote locking receiver
13	E	Lock signal ZS22 simulation	Remote locking receiver
14		Not used	
15	E	Lock signal HKS simulation	Connector terminal 30
16	E	Passenger's door contact input	Passenger's door jamb switch
17	E	Connection terminal R	Fuse
18		Not used	
19	E	Position pulse	EKM control unit
20	E	Engine hood/radio status	Engine hood/radio switches
21	E	Driver's door contact input	Driver's door jamb switch
22	E	Glove box door status	Glove box door switches
23		Not used	
24		Not used	

E = Input, A = Output, M = Ground

Tardiagn.com

Pin Assignments

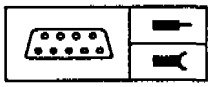
Pin	Type	Description/Function	Connection
25		Not used	
26	E	Trunk lid status signal	Trunk lid switch

X301

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4		Not used	
5		Not used	
6		Not used	
7		Not used	
8	E	Tilt signal	Gradient monitor
9	A	Tilt signal	Gradient monitor
10		Not used	
11	E	Left rear window status	Left rear window switch
12	E	Driver's window status	Driver's window switch
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	E	Right rear window status	Right rear window status

E = Input, A = Output, M = Ground

cardiagn.com



Pin Assignments

Pin	Type	Description/Function	Connection
25	E	Passenger's window status	Passenger's window status
26	E	Rear window status	Antenna amplifier AM/FM

X331

Pin	Type	Description/Function	Connection
1	A	Drive-away protection	DME control unit
2	E	Ground	Body ground
3	E	Terminal 15	Fuse
4	E	Terminal 61E	Battery charge indicator
5		Not used	

X335

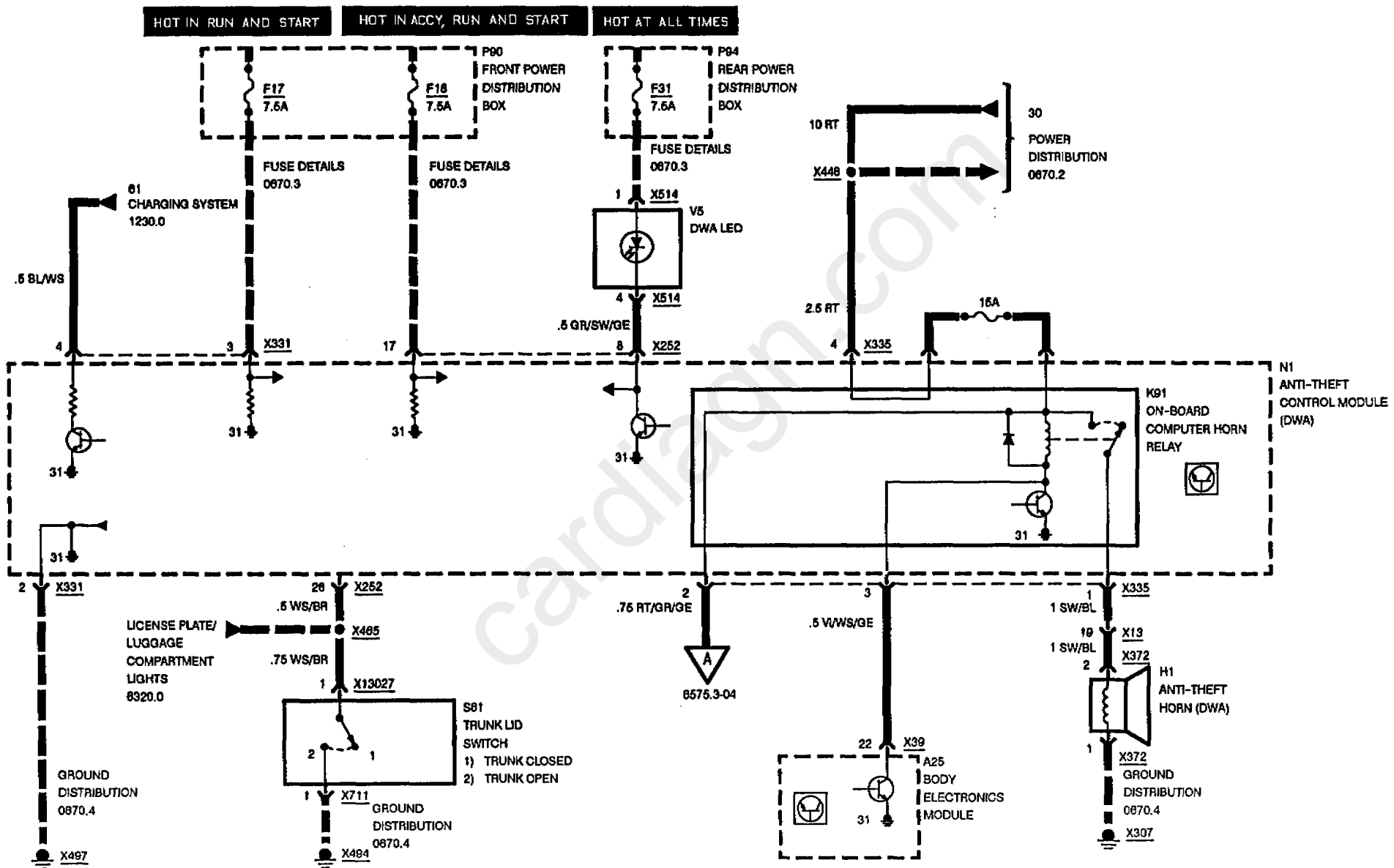
Pin	Type	Description/Function	Connection
1	A	Alarm horn connection	Alarm horn
2	A	Terminal 30 for tilt sensor/auxiliary module	Connector NG/ZM
3	E	Input BC-Horn	EKM control unit
4	E	Terminal 30 voltage	Fusible link

cardiagn.com

E = Input, A = Output, M = Ground

ANTI-THEFT SYSTEM IV (DWA IV)

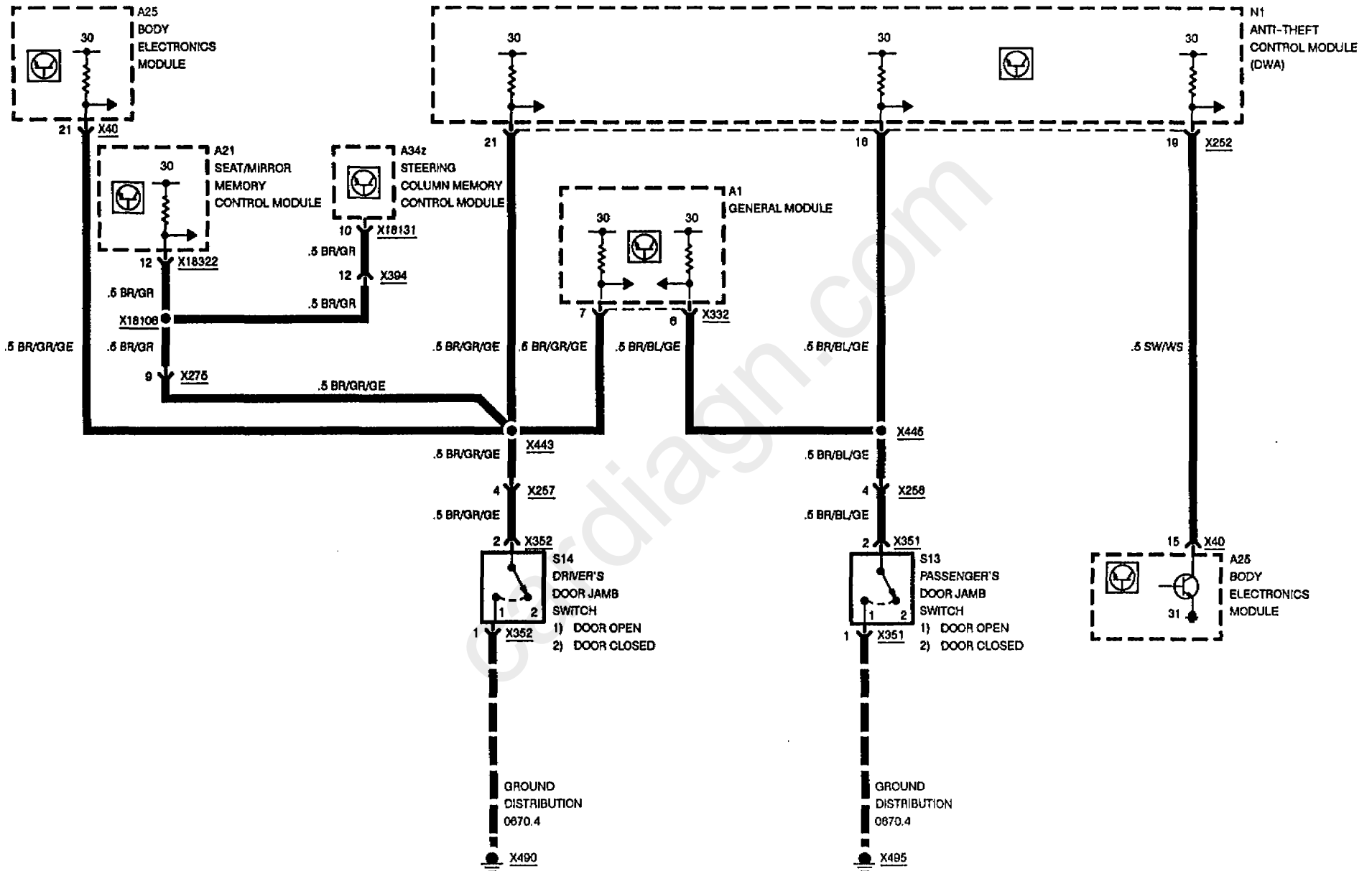
POWER, ENGINE RUNNING INPUT, TRUNK INPUT, ANTI-THEFT HORN (DWA)



cardiagn.com

ANTI-THEFT SYSTEM IV (DWA IV)

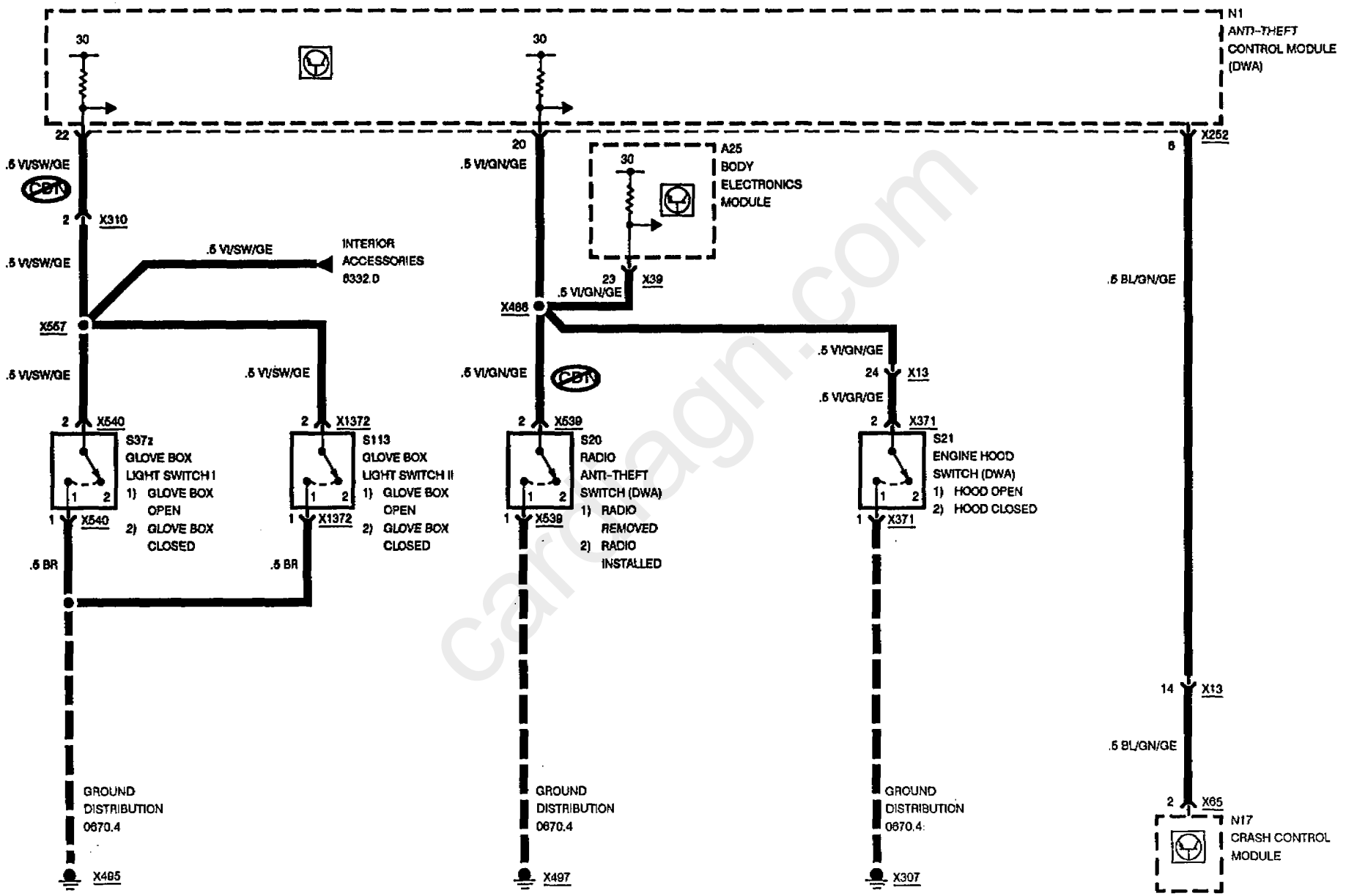
FRONT DOOR CONTACTS



obdiagn.com

ANTI-THEFT SYSTEM IV (DWA IV)

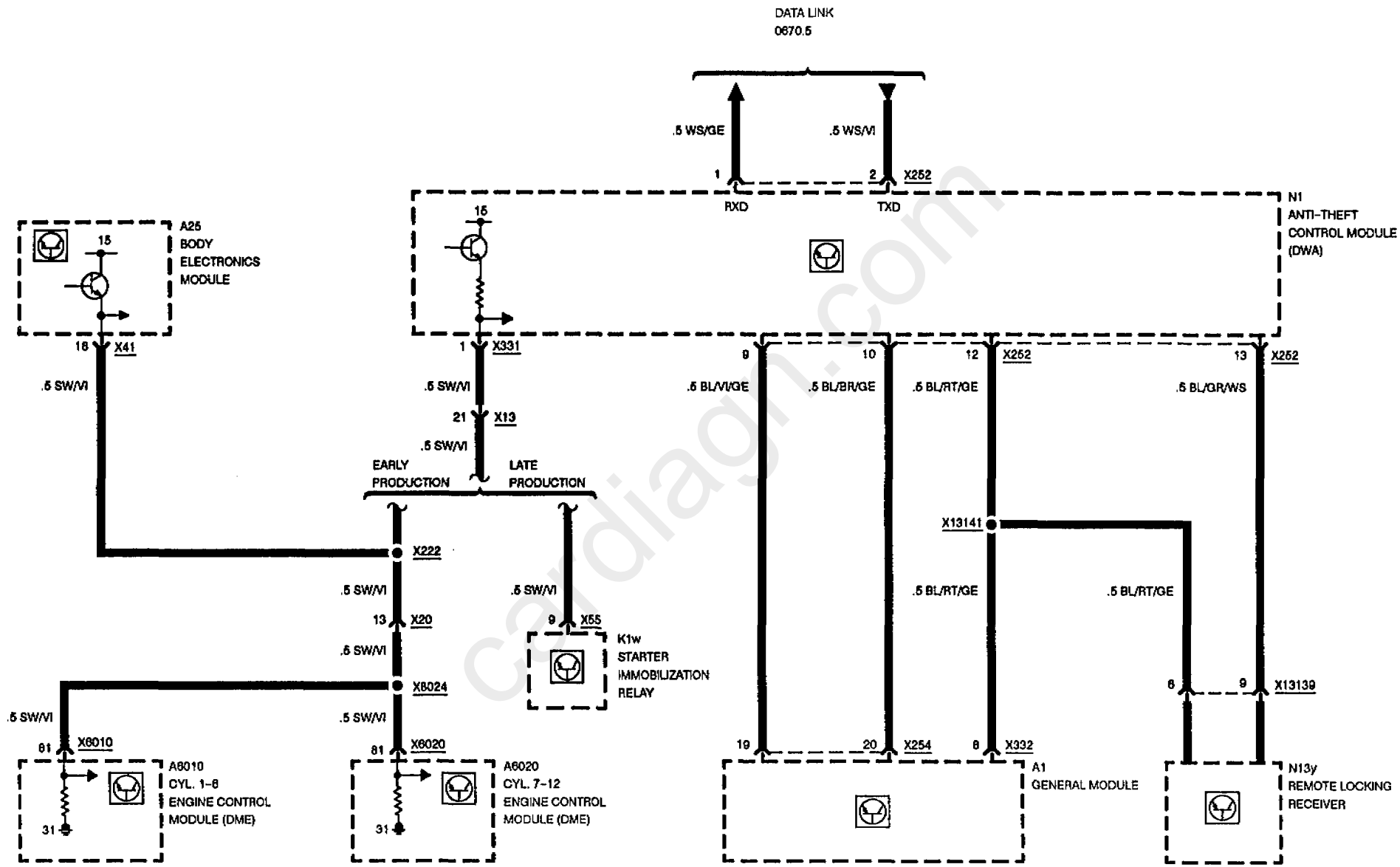
GLOVE BOX, RADIO, ENGINE HOOD INPUTS AND VISUAL ALARM



carmagn.com

ANTI-THEFT SYSTEM IV (DWA IV)

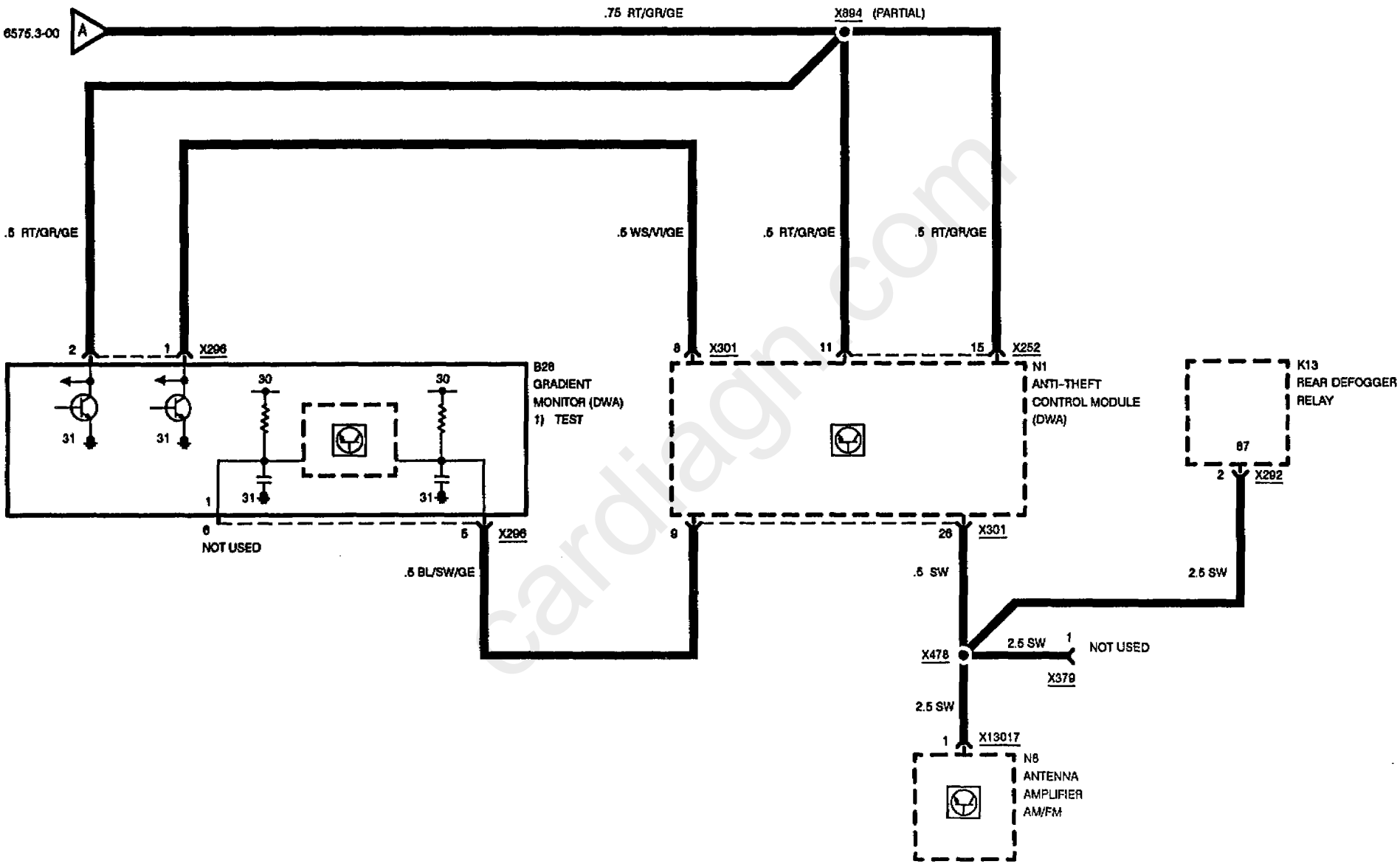
DATA LINK, DRIVE AWAY PROTECTION, QZV



cardiagn.com

ANTI-THEFT SYSTEM IV (DWA IV)

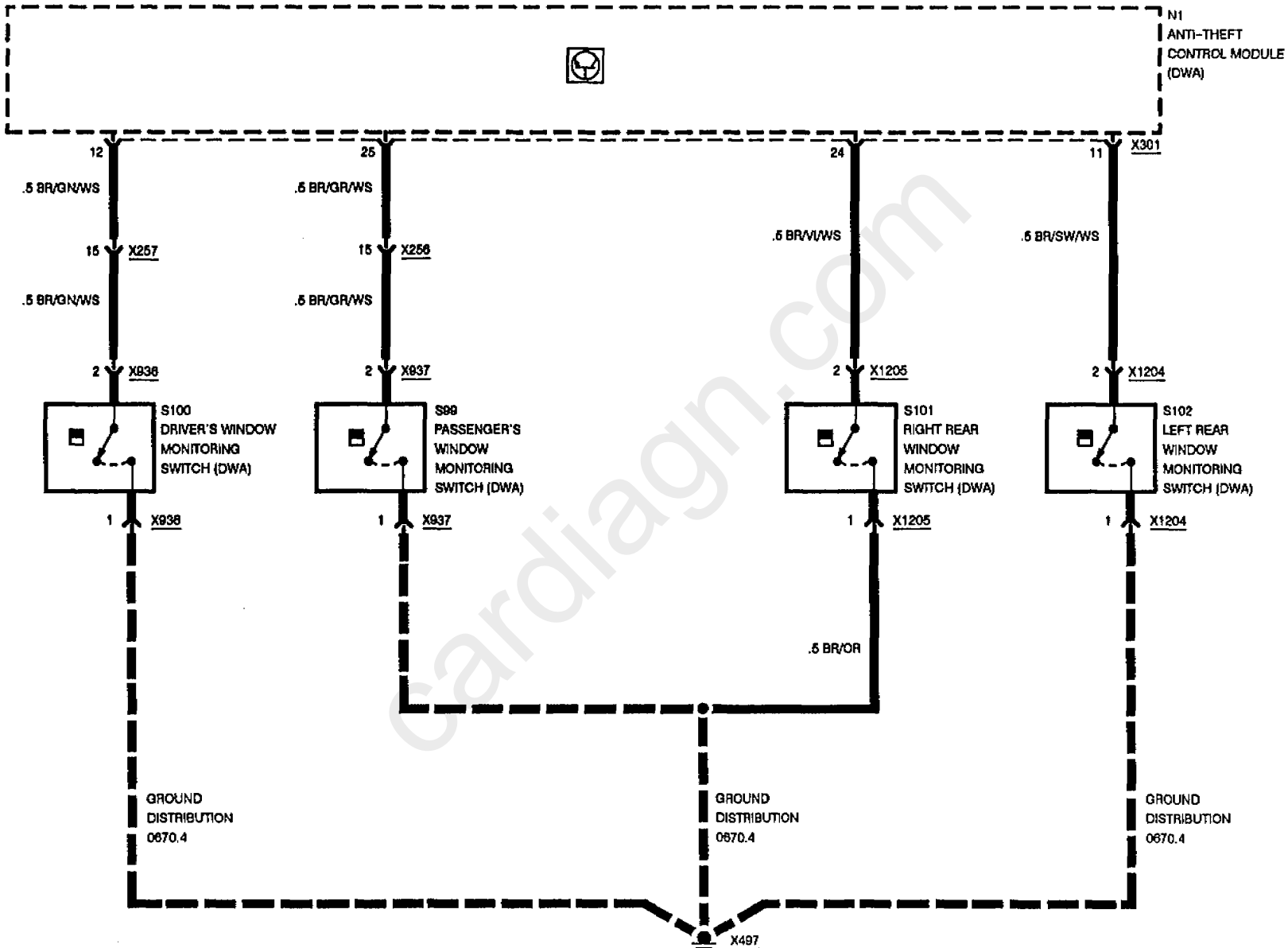
GRADIENT MONITOR AND DATA LINK



cardiagn.com

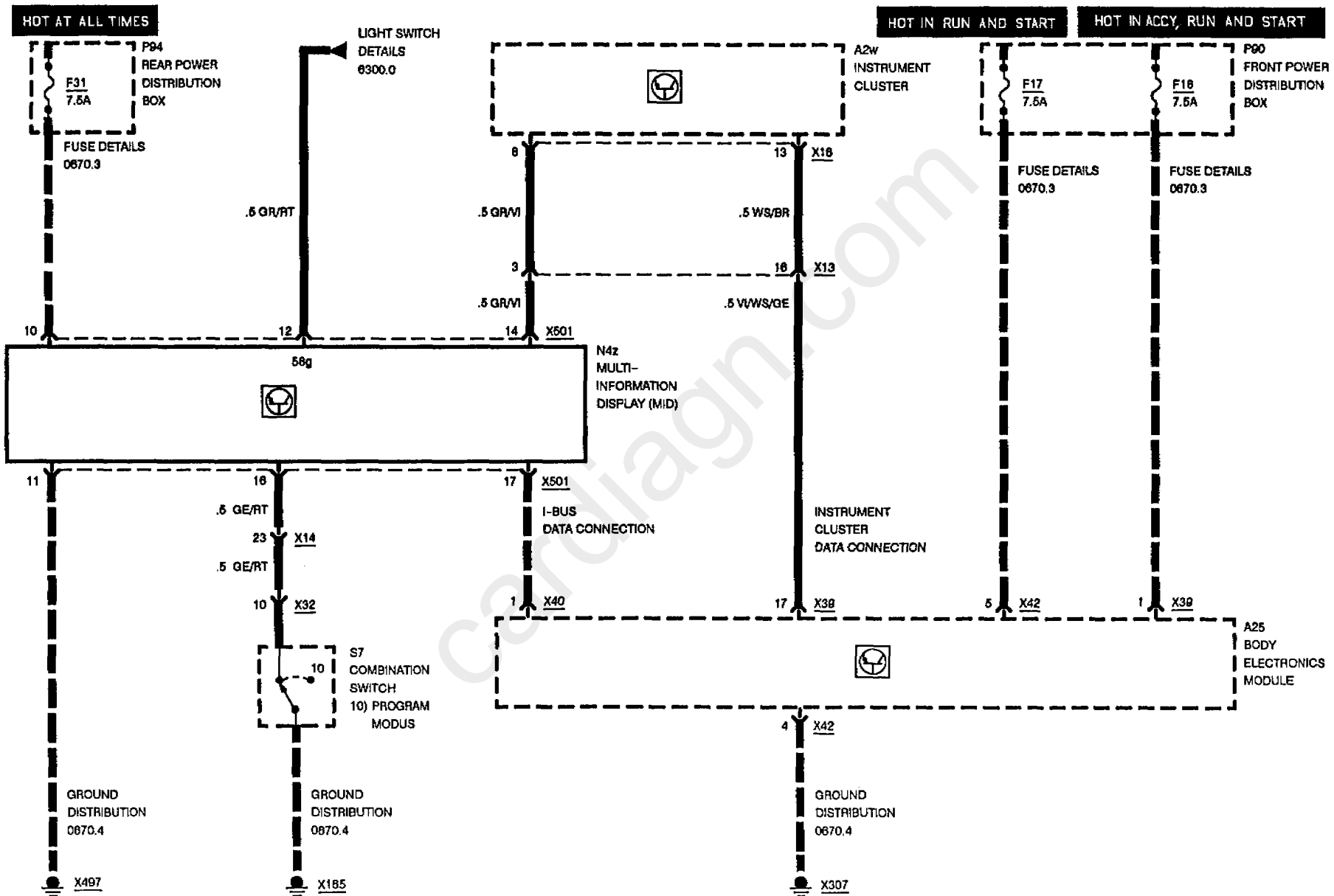
ANTI-THEFT SYSTEM IV (DWA IV)

FRONT AND REAR WINDOW SWITCHES



cardiagn.com

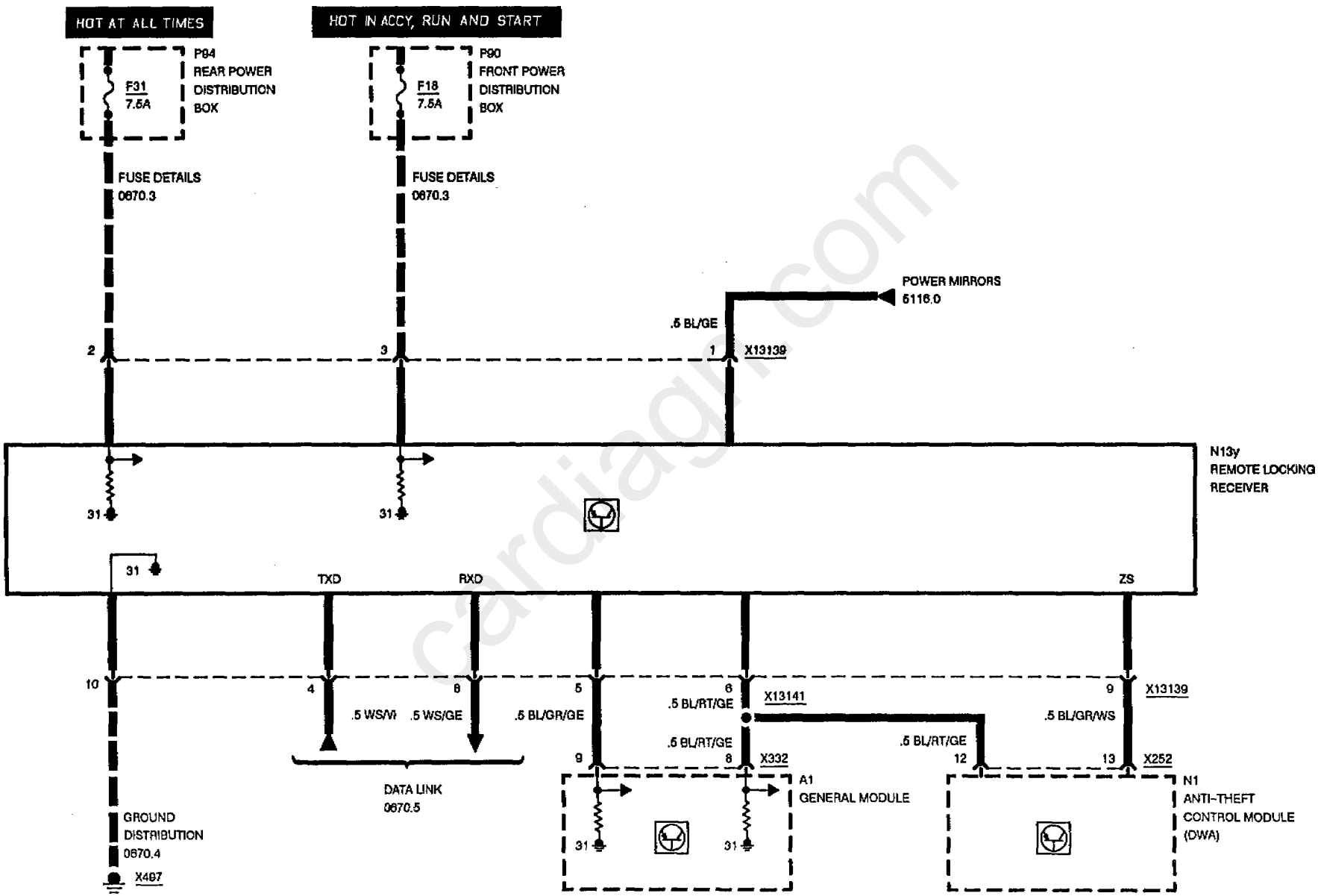
MULTI- INFORMATION DISPLAY (MID)



carDiagn.com

cardiagn.com

REMOTE CONTROLLED LOCKING SYSTEM



cardiagn.com

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT

			PAGE – FIGURE 7100.0	8500.0
A1	GENERAL MODULE	Below LH side of dash	02-1	
A1	GENERAL MODULE	Below LH side of dash	30-1	
A3	LAMP CONTROL MODULE	Below LH side of dash	02-1	
A3	LAMP CONTROL MODULE	Below LH side of dash	30-2	
A5	RELAY MODULE	Inside box on interior side of LH door sill	02-3	
A5	RELAY MODULE	Inside box on interior side of LH door sill	29-2	
A7	SLIP CONTROL MODULE (ABS)	LH side of LH footwell (840Ci)	03-2	
A8	CRUISE CONTROL MODULE (TEMPOMAT)	In RH rear side of luggage compartment (840Ci)	03-3	
A11	AUTOMATIC HEATING/AC CONTROL MODULE (IHKA)	Between front footwells		
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	Below RH side of dash	04-3	
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	Below RH side of dash	33-2	
A15	PARK HEATING/VENTILATION RELAY BOX	Below RH side of dash	04-3	
A15	PARK HEATING/VENTILATION RELAY BOX	Below RH side of dash	33-2	
A18	HIFI AMPLIFIER	In LH forward side of luggage compartment	01-2	
A18	HIFI AMPLIFIER	In LH forward side of luggage compartment	44-1	
A21	SEAT/MIRROR MEMORY CONTROL MODULE	Underside of LH front seat		
A23	DRIVER'S DOOR MODULE	In lower LH front door	05-2	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
A23	DRIVER'S DOOR MODULE	In lower LH front door		39-3
A24	PASSENGER'S DOOR MODULE	In lower RH front door		05-2
A24	PASSENGER'S DOOR MODULE	In lower RH front door		39-3
A25	BODY ELECTRONICS MODULE	Below LH side of dash		02-1
A25	BODY ELECTRONICS MODULE	Below LH side of dash		30-1
A26	LOCK-SENSOR CONTROL MODULE	LH side of LH footwell		04-2
A26	LOCK-SENSOR CONTROL MODULE	LH side of LH footwell		32-2
A2w	INSTRUMENT CLUSTER	LH side of dash		
A33	SUNROOF MODULE	Center of windshield header		05-3
A33	SUNROOF MODULE	Center of windshield header		35-1
A57	AHK CONTROL MODULE	In RH rear side of luggage compartment		01-1
A57	AHK CONTROL MODULE	In RH rear side of luggage compartment		46-1
A82	SUN BLIND CONTROL MODULE	At back of rear window shelf		00-1
A82	SUN BLIND CONTROL MODULE	At back of rear window shelf		14-3
A113	SEAT OCCUPANCY DETECTOR	In passenger's seat area		
A34z	STEERING COLUMN MEMORY CONTROL MODULE	Center of dash behind radio		
A413	ELECTRONIC SHOCK ABSORBER CONTROL MODULE (EDC)	In RH side of luggage compartment		00-2
A413	ELECTRONIC SHOCK ABSORBER CONTROL MODULE (EDC)	In RH side of luggage compartment		42-3

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
A417 ..	AUTOMATIC AIR RECIRCULATION CONTROL MODULE	Behind RH footwell speaker grille	05-1	
A417 ..	AUTOMATIC AIR RECIRCULATION CONTROL MODULE	Behind RH footwell speaker grille		33-3
A6000 .	ENGINE CONTROL MODULE (DME)	In E-Box (840Ci)	03-1	
A6004 .	THROTTLE CONTROL MODULE (EML)	Rear RH side of engine compartment in E-Box	06-2	
A6010 .	CYL. 1-6 ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box	06-2	
A6020 .	CYL. 7-12 ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box	06-2	
A8500 .	TRANSMISSION CONTROL MODULE (EGS) .	In RH rear side of luggage compartment	00-3	
A8500 .	TRANSMISSION CONTROL MODULE (EGS) .	In RH rear side of luggage compartment	42-2	
A8600 .	TRANSMISSION CONTROL MODULE (AGS) .	In E-Box (840Ci)	03-1	
A9070 .	SLIP CONTROL MODULE (ABS/ASC+T)	LH side of LH footwell	02-2	
B1	RIGHT FRONT SPEED SENSOR - ABS	Behind RH front wheel		
B2	LEFT FRONT SPEED SENSOR - ABS	Behind LH front wheel		
B3	RIGHT REAR SPEED SENSOR - ABS	Behind RH rear wheel		
B4	LEFT REAR SPEED SENSOR - ABS	Behind LH rear wheel	14-2	
B10 ...	VEHICLE SPEED SENSOR	On differential	13-3	
B11 ...	LH HEAT EXCHANGER TEMPERATURE SENSOR	Below LH side of dash	30-3	
B12 ...	RH HEAT EXCHANGER TEMPERATURE SENSOR	Center console right behind radio		
B13 ...	OUTSIDE TEMPERATURE SENSOR	Behind center of cowl		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B14 ...	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell		
B15 ...	ELECTRO- HYDRAULIC CONVERTER (SERVOTRONIC)	Under LH front of car		
B16 ...	LEFT FRONT BRAKE PAD SENSOR	Behind LH front wheel	14-1	
B17 ...	RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel		
B18 ...	BRAKE FLUID LEVEL SWITCH	Rear LH side of engine compartment	23-2	
B19 ...	BRAKE PRESSURE REGULATING SWITCH ...	Rear LH side of engine compartment	23-2	
B20 ...	BRAKE PRESSURE SWITCH	Rear LH side of engine compartment	23-1	
B25 ...	FUEL LEVEL SENSOR II	Under LH rear seat	37-1	
B28 ...	GRADIENT MONITOR (DWA)	In LH rear side of luggage compartment	41-2	
B40 ...	STEERING ANGLE SENDER	On steering column		
B48 ...	RIGHT REAR ACCELERATION SENSOR	In RH rear side of luggage compartment	42-1	
B49 ...	LONGITUDINAL ACCELERATION SENSOR ...	In LH forward side of luggage compartment	40-3	
B52 ...	ACCUMULATOR CHARGING UNIT	In spare-wheel well	45-1	
B53 ...	AHK ACTUATOR	Under rear of car	13-2	
B6z ...	FUEL LEVEL SENSOR I	Under RH rear seat	37-2	
B206 ..	OIL PRESSURE SWITCH	LH side of engine compartment	24-1	
B21z ..	TEMPERATURE SENSOR	In ventilation duct left	24-3	
B414 ..	AUTOMATIC AIR RECIRCULATION SENSOR .	Front LH side of engine compartment	06-3	
B414 ..	AUTOMATIC AIR RECIRCULATION SENSOR .	Front LH side of engine compartment	16-3	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B41z	FRONT ACCELERATION SENSOR	RH front of wheel well above		
B900	JUMPER PLUG	Rear LH side of engine compartment in Front Power Distribution Box		
B6203	CRANKSHAFT POSITION/RPM SENSOR	Front of engine (840Ci)	21-1	
B6204	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)	Front of engine (840Ci)	21-1	
B6210	CYL. 1-6 HEATED OXYGEN SENSOR	On catalytic converter	15-3	
B6211	CYL. 1-6 CYLINDER IDENTIFICATION SENSOR	Front of engine left		
B6212	CYL. 1-6 CRANKSHAFT POSITION/RPM SENSOR	Front of engine compartment		
B6215	CYL. 1-6 AIR TEMPERATURE SENSOR	Rear of engine		
B6216	CYL. 1-6 MASS AIR FLOW SENSOR	LH side of engine compartment	24-2	
B6217	HOT FILM AIR MASS METER	Front of engine	22-2	
B6220	CYL. 7-12 HEATED OXYGEN SENSOR	On catalytic converter	15-3	
B6221	CYL. 7-12 CYLINDER IDENTIFICATION SENSOR	Front of engine right		
B6222	CYL. 7-12 CRANKSHAFT POSITION/RPM SENSOR	Front of engine compartment		
B6225	CYL. 7-12 AIR TEMPERATURE SENSOR	Rear of engine		
B6226	CYL. 7-12 MASS AIR FLOW SENSOR	RH side of engine compartment	25-1	
B6230	OIL LEVEL SENSOR	Under LH front of car	15-1	
B6232	ENGINE COOLANT TEMPERATURE SENSOR	RH side of engine rear (840Ci)	21-2	
B6234	ENGINE COOLANT TEMP. SENSOR (EML)	On coolant inlet		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B6235	TEMPERATURE SWITCH	Rear RH side of engine compartment in E-Box	28-3	
B6236	ENGINE COOLANT TEMPERATURE SENSOR	RH side of engine rear (840Ci)	21-2	
B6241	CYL. 1-2 KNOCK SENSOR	RH cylinder head (840Ci)		
B6242	CYL. 3-4 KNOCK SENSOR	RH cylinder head (840Ci)		
B6243	CYL. 5-6 KNOCK SENSOR	LH cylinder head (840Ci)		
B6244	CYL. 7-8 KNOCK SENSOR	LH cylinder head (840Ci)		
B9508	PRESSURE SWITCH	RH side of engine compartment under concealing headlight		
B6210w	CYL. 1-4 HEATED OXYGEN SENSOR	On catalytic converter	22-3	
B6210w	CYL. 1-4 HEATED OXYGEN SENSOR	On catalytic converter		
B6215A	INTAKE AIR TEMPERATURE SENSOR	On coolant inlet		
B6220w	CYL. 5-8 HEATED OXYGEN SENSOR	On catalytic converter	22-3	
B6220w	CYL. 5-8 HEATED OXYGEN SENSOR	On catalytic converter		
C101	CONTACT RING	On steering wheel		
C900	SUPPRESSION FILTER	In upper RH C-pillar	36-3	
C900z	FM AMPLIFIER/SUPPRESSION FILTER	In upper RH C-pillar		
D100	DATA LINK CONNECTOR	Front RH side of engine compartment	25-2	
E9	REAR DEFOGGER I	In rear window		
E10	REAR DEFOGGER/ANTENNA	In rear window		
E11	LEFT HIGH BEAM LIGHT	Front of car		
E12	RIGHT HIGH BEAM LIGHT	Front of car		

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
E13	LEFT LOW BEAM LIGHT	Front of car	
E14	RIGHT LOW BEAM LIGHT	Front of car	
E15	LEFT PARK LIGHT	Front of car	
E19	RIGHT PARK LIGHT	Front of car	
E20	UNDERHOOD LIGHT	On underside of engine hood	16-2
E21	LEFT FRONT MARKER LIGHT	Near LH headlight assembly	
E22	RIGHT FRONT MARKER LIGHT	Near RH headlight assembly	
E26	LEFT FOG LIGHT	Front of car	
E27	RIGHT FOG LIGHT	Front of car	
E28	FRONT CIGAR LIGHTER	Center of dash below front of console	
E29	FRONT CIGAR LIGHTER LIGHT	Center of dash below front of console	
E33	TRUNK LID LIGHT	Underside of trunk lid	
E34	FRONT DOME LIGHT/MAP READING ASSEMBLY	Underside of trunk lid	
E35	DRIVER'S MAKEUP MIRROR LIGHT	In roof panel	
E36	PASSENGER'S MAKEUP MIRROR LIGHT	In roof panel	
E39	LEFT REAR INTERIOR LIGHT	Behind LH footwell trim	
E40	RIGHT REAR INTERIOR LIGHT	Behind RH footwell trim	
E41	DASH LIGHT	Center of dash	
E42	GLOVE BOX LIGHT	RH side of glove box above	
E43	LEFT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
E44	RIGHT LICENSE PLATE LIGHT	Underside of trunk lid, near license plate	
E48	DOOR LOCK HEATER	In upper LH front door	
E51	LEFT WASHER JET HEATER	On underside of engine hood	16-2
E52	RIGHT WASHER JET HEATER	On underside of engine hood	
E56	DRIVER'S SEATBACK HEATER	In lower LH front seatback	
E57	DRIVER'S SEAT HEATER	Underside of LH front seat	
E58	PASSENGER'S SEAT HEATER	Underside of RH front seat	
E59	PASSENGER'S SEATBACK HEATER	In lower RH front seatback	
E61	LEFT FRONT FOOTWELL LIGHT	LH front door behind door panel	36-1
E62	RIGHT FRONT FOOTWELL LIGHT	RH front door behind door panel	
E69	LEFT HIGH BEAM FLASHER LIGHT	Front of car	
E78	DRIVER'S DOOR PANEL LIGHT	In upper LH front door	
E79	PASSENGER'S DOOR PANEL LIGHT	In upper RH front door	
E80	LEFT REAR LIGHT ASSEMBLY II	Underside of trunk lid left	44-3
E81	RIGHT REAR LIGHT ASSEMBLY II	Underside of trunk lid right	44-3
E82	TRANSMISSION POSITION INDICATOR LIGHT	Center console	
E96	GEAR SHIFT LEVER INDICATOR	Center console	
E45y	CASSETTE BOX LIGHT	Center console	
E46z	LEFT REAR LIGHT ASSEMBLY I	In LH rear side of luggage compartment	
E47z	RIGHT REAR LIGHT ASSEMBLY I	In RH rear side of luggage compartment	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
E70z	RIGHT HIGH BEAM FLASHER LIGHT	Front of car		
E9021	LEFT REAR SIDE MARKER LIGHT	In LH rear side of luggage compartment		
E9022	RIGHT REAR SIDE MARKER LIGHT	In RH rear side of luggage compartment		
E9033	LEFT TRUNK LID LIGHT	In LH side of luggage compartment		
E9046	LEFT LIGHT BAND	Front of car		
E9047	RIGHT LIGHT BAND	Front of car		
E9133	RIGHT TRUNK LID LIGHT	In RH side of luggage compartment		
F0	FUSIBLE LINK	In RH side of luggage compartment		08-1
F0	FUSIBLE LINK	In RH side of luggage compartment		42-2
F97	FUSIBLE LINK	In RH rear side of luggage compartment (840Ci)		46-3
F99	FUSIBLE LINK (50A)	In RH rear side of luggage compartment (840Ci)		46-3
G4	LEFT BATTERY II	In LH rear side of luggage compartment		08-3
G4	LEFT BATTERY II	In LH rear side of luggage compartment		41-1
G5	DRIVER'S AIR BAG GAS GENERATOR	On steering wheel		
G6	PASSENGER'S AIR BAG GAS GENERATOR I	Below RH side of dash		
G1z	RIGHT BATTERY I	In RH side of luggage compartment		08-1
G1z	RIGHT BATTERY I	In RH side of luggage compartment		42-2
G6430	B+ JUMP START JUNCTION POINT	Rear RH side of engine compartment near shock tower (840Ci)		19-3
G6509	GENERATOR	LH side of engine compartment		
H1	ANTI-THEFT HORN (DWA)	Behind RH fresh air cowl		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
H2	LEFT HORN	Front of car under radiator		
H3	RIGHT HORN	Front of car under radiator		
H4	RIGHT FRONT TURN LIGHT	In RH front bumper		
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	In LH front bumper		
H8	RIGHT FRONT AUXILIARY TURN LIGHT	Near RH front wheel well		
H9	LEFT FRONT AUXILIARY TURN LIGHT	Near LH front wheel well		
H24	LEFT BRAKE LIGHT	LH side of body rear end		
H25	LEFT TAIL LIGHT	LH side of body rear end		
H27	LEFT BACK UP LIGHT	LH side of body rear end		
H28	RIGHT BACK UP LIGHT	RH side of body rear end		
H30	RIGHT TAIL LIGHT	RH side of body rear end		
H31	RIGHT BRAKE LIGHT	RH side of body rear end		
H34	HIGH LEVEL STOP LIGHT	At back of rear window shelf		
H38	TELEPHONE TRANSCEIVER	In LH forward side of luggage compartment		
H42	LEFT MID-HIGH RANGE SPEAKER	Driver's door		
H43	RIGHT MID-HIGH RANGE SPEAKER	Passenger's door		
H45	RIGHT REAR SPEAKER	At back of rear window shelf		
H46	LEFT REAR SPEAKER	At back of rear window shelf		

carlagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
H50	RIGHT FRONT HIGH RANGE SPEAKER	In upper RH front door	
H51	RIGHT FRONT LOW RANGE SPEAKER	Behind RH footwell kickpanel	
H52	RIGHT REAR LOW RANGE SPEAKER	At back of rear window shelf	
H53	RIGHT REAR HIGH RANGE SPEAKER	At back of rear window shelf	
H54	RIGHT FRONT MIDRANGE SPEAKER	In upper RH front door	
H55	LEFT FRONT MIDRANGE SPEAKER	Driver's door	
H56	LEFT REAR HIGH RANGE SPEAKER	At back of rear window shelf	
H57	LEFT REAR LOW RANGE SPEAKER	At back of rear window shelf	
H58	LEFT FRONT LOW RANGE SPEAKER	Footwell, driver's side	
H59	LEFT FRONT HIGH RANGE SPEAKER	Driver's door	
H10z	ACOUSTIC DEVICE	Below RH side of dash	33-1
H54z	REAR RIGHT MID-HIGH RANGE SPEAKER	At back of rear window shelf	
H55z	REAR LEFT MID-HIGH RANGE SPEAKER	At back of rear window shelf	
H9025	UPPER LEFT TAIL LIGHT	LH side of body rear end	
H9030	UPPER RIGHT TAIL LIGHT	RH side of body rear end	
K1	STARTER RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-1
K2	HORN RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-2
K3	UNLOADER RELAY, TERMINAL R	Rear LH side of engine compartment in Front Power Distribution Box	18-1
K4	BLOWER RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-1
K5	WASHER PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-2

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

K9	UNLOADER RELAY, TERMINAL 15	Rear LH side of engine compartment in Front Power Distribution Box	17-1
K12	WIPER PRESSURE CONTROL (ADV) RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-1
K13	REAR DEFOGGER RELAY	Rear Power Distribution Box in LH side of luggage compartment	40-1
K15	ELECTRIC POWER PROTECTION RELAY	Rear Power Distribution Box in LH side of luggage compartment	40-1
K16	HAZARD FLASHER RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-3
K19	COMPRESSOR CONTROL RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-2
K1w	STARTER IMMOBILIZATION RELAY	Behind LH footwell speaker grille	
K21	NORMAL SPEED RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-3
K22	HIGH SPEED RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-1
K25	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	Below LH side of dash near hood release lever	
K26	LEFT PARK LIGHT RELAY	Below LH side of dash near hood release lever	
K29	INTERIOR LIGHT RELAY	LH side of LH footwell	32-2
K30	ELECTRIC POWER PROTECTION RELAY II	Rear Power Distribution Box in LH side of luggage compartment	40-1
K33	AIR CONDITIONING RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-2
K36	WIPER RELAY I	Rear LH side of engine compartment in Front Power Distribution Box	18-1
K37	WIPER RELAY II	Rear LH side of engine compartment in Front Power Distribution Box	18-1
K38	WIPER RELAY III	Rear LH side of engine compartment in Front Power Distribution Box	18-1
K39	CONCEALING HEADLIGHTS RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-3
K42	INTENSIVE WASH RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-2

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
K46	HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-1	
K51	JUMPER PLUG FOR HORN/TELEPHONE	Rear LH side of engine compartment in Front Power Distribution Box	18-2	
K60	COMPRESSOR CUT-OFF RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-2	
K61	UNLOADER RELAY, TERMINAL 61	Rear LH side of engine compartment in Front Power Distribution Box	17-2	
K67	EDC RELAY	In RH side of luggage compartment	42-3	
K70	CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)	Rear Power Distribution Box in LH side of luggage compartment	40-2	
K72	CONSUMER CUT-OFF RELAY I	Rear Power Distribution Box in LH side of luggage compartment	40-2	
K73	CONSUMER CUT-OFF RELAY II	Rear Power Distribution Box in LH side of luggage compartment	40-1	
K81	WARNING LIGHT RELAY	In RH rear side of luggage compartment	45-3	
K82	AHK RELAY	In RH rear side of luggage compartment	45-3	
K8z	AUXILIARY WATER PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-2	
K91	ON-BOARD COMPUTER HORN RELAY	Inside box on interior side of RH door sill		
K94	ABS PUMP MOTOR RELAY	In LH auxiliary relay box, engine compartment	22-1	
K94	ABS PUMP MOTOR RELAY	LH side of engine compartment in auxiliary relay box LH front of engine compartment		
K95	VALVE RELAY (ABS/ASC)	In LH auxiliary relay box, engine compartment	22-1	
K95	VALVE RELAY (ABS/ASC)	LH side of engine compartment in auxiliary relay box LH front of engine compartment		
K111	DAYTIME RUNNING LIGHTS RELAY	Rear Power Distribution Box in LH side of luggage compartment	40-2	

carDiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
K199	SERVOTRONIC RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-2
K52z	FLASHER LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box	17-3
K6300	ENGINE CONTROL MODULE RELAY	In E-Box	21-3
K6300	ENGINE CONTROL MODULE RELAY	In E-Box	
K6303	OXYGEN SENSOR RELAY	In E-Box (840Ci)	21-3
K6303	OXYGEN SENSOR RELAY	In E-Box	
K6310	CYL. 1-6 ENGINE CONTROL MODULE RELAY	Rear RH side of engine compartment in E-Box	28-2
K6311	CYL. 1-6 FUEL PUMP RELAY	Rear RH side of engine compartment in E-Box	28-2
K6320	CYL. 7-12 ENGINE CONTROL MODULE RELAY	Rear RH side of engine compartment in E-Box	28-2
K6321	CYL. 7-12 FUEL PUMP RELAY	Rear RH side of engine compartment in E-Box	28-2
K6301w	FUEL PUMP RELAY	In E-Box (840Ci)	21-3
M2	FUEL PUMP	In RH side of luggage compartment	
M3	WIPER MOTOR	Behind LH fresh air cowl	
M4	WASHER PUMP	RH side of engine compartment on washer fluid reservoir	27-1
M5	INTENSIVE WASH PUMP	Front RH side of engine compartment near windshield washer reservoir	
M6	WIPER PRESSURE CONTROL MOTOR (ADV)	Behind LH fresh air cowl	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment near windshield washer reservoir	27-2
M9	AUXILIARY FAN MOTOR	Behind front grille	16-3
M11	CYL. 7-12 FUEL PUMP	In RH side of luggage compartment	
M12	DRIVER'S DOOR LOCK MOTOR	In lower LH front door	38-1

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
M13 ...	PASSENGER'S DOOR LOCK MOTOR	In lower RH front door	38-1	
M16 ...	GAS FILLER LOCK MOTOR	In RH rear side of luggage compartment	43-3	
M17 ...	TRUNK LOCK MOTOR	Rear of car rear side of luggage compartment		
M18 ...	LH CONCEALING HEADLIGHT MOTOR	Front LH side of engine compartment		
M19 ...	RH CONCEALING HEADLIGHT MOTOR	Front RH side of engine compartment		
M20 ...	LEFT REAR WINDOW MOTOR	Left from LH rear seat behind trim panel		
M22 ...	RIGHT REAR WINDOW MOTOR	RH side of RH rear seat behind trim panel		
M24 ...	SUNROOF MOTOR	Center of windshield header	35-2	
M25 ...	CRUISE CONTROL ACTUATOR (TEMPOMAT)	Front LH side of engine compartment	19-1	
M2z ...	CYL. 1-6 FUEL PUMP	In RH side of luggage compartment		
M30 ...	BLOWER MOTOR	Behind center of cowl		
M31 ...	LEFT FOOTWELL FLAP MOTOR	Below LH side of dash		
M32 ...	RIGHT FOOTWELL FLAP MOTOR	LH side of RH footwell		
M33 ...	RIGHT VENTILATION FLAP MOTOR	LH side of RH footwell		
M34 ...	DASH VENT MIXING FLAP MOTOR	RH side of dash behind glove box RH side of IHKA Plenum		
M35 ...	DEFROSTER FLAP MOTOR	LH side of IHKA Plenum		
M36 ...	FRESH AIR FLAP MOTOR	LH side of IHKA Plenum		
M38 ...	LEFT VENTILATION FLAP MOTOR	Behind LH fresh air cowl		
M39 ...	LEFT MIXING FLAP MOTOR	Center of dash left of radio		
M40 ...	RECIRCULATION FLAP MOTOR	Below LH side of dash		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

M50 ... DRIVER'S SEAT CUSHION TILT MOTOR ..... Under LH front seat

M51 ... DRIVER'S SEAT MOVEMENT MOTOR ..... Under LH front seat

M52 ... DRIVER'S SEAT HEIGHT MOTOR ..... Under LH front seat

M53 ... DRIVER'S SEATBACK RECLINER MOTOR ... In lower LH front seatback

M58 ... PASSENGER'S SEATBACK RECLINER MOTOR ..... In lower RH front seatback

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

M65 ... DRIVER'S THIGH SUPPORT MOTOR ..... Under LH front seat

M66 ... PASSENGER'S THIGH SUPPORT MOTOR ... Under RH front seat

M74 ... SUN BLIND MOTOR ..... At back of rear window shelf 14-3

M80 ... LEFT HEADLIGHT WIDENING MOTOR ..... Front LH side of engine compartment

M81 ... RIGHT HEADLIGHT WIDENING MOTOR ..... Front RH side of engine compartment

M82 ... STEERING COLUMN LENGTH ADJUST MOTOR ..... Bottom of steering column

M83 ... STEERING COLUMN ANGLE ADJUST MOTOR Bottom of steering column

M86 ... WATER PUMP IN LUGGAGE COMPARTMENT In luggage compartment In spare tire compartment 45-2

M93 ... AUXILIARY THROTTLE POSITION MOTOR (ADS) ..... Front LH side of engine compartment 19-1

M93 ... AUXILIARY THROTTLE POSITION MOTOR (ADS) ..... LH side of engine compartment

M21z .. DRIVER'S POWER WINDOW MOTOR/ INCREMENT SENSOR ..... In lower LH front door 39-2

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
M23z ..	PASSENGER'S POWER WINDOW MOTOR/ INCREMENT SENSOR	In lower RH front door		
M37a ..	AUXILIARY WATER PUMP	Rear LH side of engine compartment		
M55z ..	DRIVER'S SEAT LUMBAR SUPPORT MOTOR/VALVE	In upper LH front seatback		
M56z ..	PASSENGER'S SEAT LUMBAR SUPPORT MOTOR/VALVE	In upper RH front seatback		
M6360 .	EML ACTUATOR MOTOR I	Front LH side of engine compartment		26-3
M6370 .	EML ACTUATOR MOTOR II	Front RH side of engine compartment		26-3
M6506 .	E-BOX FAN	Rear RH side of engine compartment in E-Box		28-3
M6510 .	STARTER	In the engine compartment		
N1	ANTI-THEFT CONTROL MODULE (DWA)	Inside box on interior side of RH door sill		04-1
N1	ANTI-THEFT CONTROL MODULE (DWA)	Inside box on interior side of RH door sill		32-1
N2	FINAL STAGE UNIT	LH side of RH footwell		
N3	DIMMER	LH side of dash		
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Rear LH side of engine compartment in Front Power Distribution Box		06-1
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Rear LH side of engine compartment in Front Power Distribution Box		17-1
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar		01-3
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar		36-2
N9	RADIO	Center console		
N17 ...	CRASH CONTROL MODULE	Rear LH side of engine compartment in Front Power Distribution Box		06-1

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
N17	CRASH CONTROL MODULE	Rear LH side of engine compartment in Front Power Distribution Box	17-3	
N22	CD CHANGER	In luggage compartment		
N4z	MULTI- INFORMATION DISPLAY (MID)	Center console		
N13y	REMOTE LOCKING RECEIVER	In rear view mirror		
N444	FM AMPLIFIER HLO	In upper LH C-pillar		
P1	AUXILIARY RELAY BOX - ENGINE COMPARTMENT	LH side of engine compartment	18-3	
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment	07-1	
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment	23-2	
P93	E-BOX	Rear RH side of engine compartment	07-2	
P93	E-BOX	Rear RH side of engine compartment	27-3	
P94	REAR POWER DISTRIBUTION BOX	In LH side of luggage compartment	08-2	
P94	REAR POWER DISTRIBUTION BOX	In LH side of luggage compartment	40-3	
R1	MIXING SWITCH	Center of dash		
R6	SEAT HEIGHT POTENTIOMETER	LH front seat		
R7	SEATBACK POTENTIOMETER	In lower LH front seatback		
R8	SEAT CUSHION REAR HEIGHT POTENTIOMETER	LH front seat		
R9	SEAT CUSHION MOVEMENT POTENTIOMETER	Under LH front seat		
R10	PEDAL POSITION SENSOR	Below LH side of dash	31-3	
R13	HEADLIGHT WIDENING POTENTIOMETER	LH side of dash		
R15	THIGH SUPPORT POTENTIOMETER	Under LH front seat		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT

PAGE – FIGURE
7100.0 8500.0

R24	STEERING WHEEL ANGLE SENSOR	On steering column	
R18z	STEERING COLUMN LENGTH ADJUST POTENTIOMETER	Bottom of steering column	
R19z	STEERING COLUMN ANGLE ADJUST POTENTIOMETER	Bottom of steering column	
R6240	RESISTOR	RH front of engine	
R6252	THROTTLE POSITION SENSOR	Front of engine (840Ci)	20-3
R6253	AUXILIARY THROTTLE POSITION SENSOR	Front of engine (840Ci)	20-3
S2	IGNITION SWITCH	On steering column above right	
S3	AUTOMATIC TRANSMISSION RANGE SWITCH	Center console	
S4	HORN SWITCH	On steering wheel behind DRIVER'S AIR BAG GAS GENERATOR, G5	
S5	WIPER/WASHER SWITCH	On steering column	
S6	ASC SWITCH	Center console	34-1
S7	COMBINATION SWITCH	On steering column above left	
S8	LIGHT SWITCH	LH side of dash	
S10	FOG LIGHT SWITCH	LH side of dash	
S11	CRUISE CONTROL SWITCH (EML)	On steering column	
S12	MEMORY MIRRORS CONTROL SWITCH	In upper LH front door	
S13	PASSENGER'S DOOR JAMB SWITCH	In upper RH front door	
S14	DRIVER'S DOOR JAMB SWITCH	In upper LH front door	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S17	MIRROR CONTROL SWITCH	In upper LH front door		
S18	HAZARD SWITCH	Center console		
S19	UNDERHOOD LIGHT SWITCH	Near LH headlight assembly		
S20	RADIO ANTI-THEFT SWITCH (DWA)	Behind radio		
S21	ENGINE HOOD SWITCH (DWA)	Near RH headlight assembly		
S26	AUTOMATIC HEATING AND AIR CONDITIONING SWITCH (IHKA)	Center of dash		
S27	INERTIA SWITCH	Behind LH footwell speaker grille		32-3
S30	BRAKE LIGHT SWITCH	Below LH side of dash		31-2
S31	PARK BRAKE SWITCH	Below front of console		
S32	CLUTCH SWITCH	Behind LH footwell trim on clutch pedal support bracket		
S36	TEMPERATURE SWITCH	Front RH side of engine compartment		23-3
S38	SUNROOF SWITCH	Center of windshield header		
S45	LEFT REAR WINDOW LIMIT SWITCH	Left from LH rear seat		
S46	RIGHT REAR WINDOW LIMIT SWITCH	RH side of RH rear seat		
S47	DRIVER'S DOOR LOCK SWITCH	LH front door behind door panel		
S48	DRIVER'S DOOR HANDLE SWITCH	LH front door behind door panel		
S49	PASSENGER'S DOOR LOCK SWITCH	RH front door		
S50	DRIVER'S MEMORY SEAT ADJUSTMENT SWITCH	LH front seat		
S51	DRIVER'S SEAT, SEAT CONTROL SWITCH	LH front seat		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0	8500.0
S52	DRIVER'S SEAT LUMBAR SWITCH	LH front seat	
S53	DRIVER'S SEAT, SEAT HEATER SWITCH	LH front seat	
S54	PASSENGER'S SEAT, SEAT HEATER SWITCH	RH front seat	
S55	PASSENGER'S SEAT LUMBAR SUPPORT SWITCH	RH front seat	
S56	PASSENGER'S SEAT, SEAT CONTROL SWITCH	RH front seat	
S57	MEMORY SEAT MIRRORS SWITCH	LH front seat	
S58	DRIVER'S SEAT BELT SWITCH	LH front seat	
S59	PASSENGER'S SEAT BELT SWITCH	RH front seat	
S61	TRUNK LID SWITCH	Underside of trunk lid	
S64	WASHER FLUID LEVEL SWITCH	RH side of engine compartment on washer fluid reservoir	27-2
S76	REAR WINDOW DEFOGGER SWITCH	LH side of dash	
S77	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor	
S78	PASSENGER'S MAKEUP MIRROR SWITCH	Above RH sun visor	
S79	PASSENGER'S DOOR HANDLE SWITCH	RH front door	
S89	DRIVER'S INSIDE DOOR HANDLE SWITCH	In lower LH front door	
S8z	LIGHT SWITCH	LH side of dash	
S90	PASSENGER'S INSIDE DOOR HANDLE SWITCH	In upper RH front door	
S93	DRIVER'S THIGH SUPPORT SWITCH	LH front seat	
S94	PASSENGER'S THIGH SUPPORT SWITCH	RH front seat	
S96	AIR CONDITIONING PRESSURE SWITCH	RH side of engine compartment under concealing headlight	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S97	PASSENGER'S WINDOW SWITCH	RH front door		
S99	PASSENGER'S WINDOW MONITORING SWITCH (DWA)	In passenger's door		
S100	DRIVER'S WINDOW MONITORING SWITCH (DWA)	In upper LH front door		
S101	RIGHT REAR WINDOW MONITORING SWITCH (DWA)	RH side of RH rear seat behind trim panel		
S102	LEFT REAR WINDOW MONITORING SWITCH (DWA)	Left from LH rear seat behind trim panel		
S103	RH DRIVER'S SEATBACK SWITCH	LH front seat		
S104	LH DRIVER'S SEATBACK SWITCH	LH front seat		
S105	EDC SWITCH	Center console		
S110	SUN BLIND SWITCH	Center console		
S113	GLOVE BOX LIGHT SWITCH II	LH side of glove box		
S117	TRUNK LID LOCKING SWITCH	Underside of trunk lid		44-2
S118	GLOVE BOX CENTRAL LOCKING SWITCH	LH side of glove box		
S121	RH PASSENGER'S SEATBACK SWITCH	RH front seat		
S122	LH PASSENGER'S SEATBACK SWITCH	RH front seat		
S136	WASHER FLUID LEVEL SWITCH	In spare-wheel well		45-2
S173	PROGRAM SELECTOR	Center console		
S198	JET HEATER THERMOSWITCH	In ventilation duct right		
S202	EML SWITCH	Center console		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
S37z	GLOVE BOX LIGHT SWITCH I	LH side of glove box		
S40z	WINDOW SWITCH	LH front door		
S119z	STEERING COLUMN POSITION SWITCH	On steering column above left		
S8507	KICK-DOWN SWITCH	RH side of LH footwell		
S8511	REVERSING LIGHT SWITCH	On RH side of transmission		
S8515	AUTOMATIC TRANSMISSION RANGE SWITCH	Center console		
S8517	PROGRAM SWITCH	Center console near gearshift lever		
S8518	TRANSMISSION RANGE SELECTOR LEVER LIGHT	Center console near gearshift lever		
S8522	SHIFT LOCK	Center console near gearshift lever		
T6151	CYL. 1 IGNITION COIL	RH cylinder head		
T6152	CYL. 2 IGNITION COIL	RH cylinder head		
T6153	CYL. 3 IGNITION COIL	RH cylinder head		
T6154	CYL. 4 IGNITION COIL	RH cylinder head		
T6155	CYL. 5 IGNITION COIL	LH cylinder head		
T6156	CYL. 6 IGNITION COIL	LH cylinder head		
T6157	CYL. 7 IGNITION COIL	LH cylinder head		
T6158	CYL. 8 IGNITION COIL	LH cylinder head		
T6151z	CYL. 1-6 IGNITION COIL	RH side of engine compartment		25-1
T6152z	CYL. 7-12 IGNITION COIL	LH side of engine compartment		18-3
V4	DAYTIME RUNNING LIGHTS CODING DIODE	Inside box on interior side of LH door sill		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
V5	DWA LED	Center console		
X0	CONNECTOR (1-PINS, (---))	LH footwell	07-3	
X0	CONNECTOR (1-PINS, (---))	LH footwell	29-3	
X2	BATTERY B+ START POINT	In Front Power Distribution Box		
X3	B+ JUNCTION POINT	In Front Power Distribution Box		
X7	CONNECTOR (55-PINS, NATURAL)	Inside box on interior side of LH door sill	29-1	00-2
X8	CONNECTOR (1-PINS, (---))	In LH auxiliary relay box, engine compartment	22-1	
X11	CONNECTOR (55-PINS, BLACK)	Inside box on interior side of LH door sill	29-1	00-2
X12	CONNECTOR (20-PINS, WHITE)	Below LH side of dash	30-2	02-1
X13	CONNECTOR (30-PINS, BLACK)	LH side of LH footwell	29-1	01-1
X14	CONNECTOR (30-PINS, WHITE)	LH side of LH footwell	29-1	01-1
X16	CONNECTOR (26-PINS, BLACK)	LH side of dash		01-2
X20	CONNECTOR (25-PINS, BLACK)	RH cylinder head (840Ci)	20-2	01-5
X20	CONNECTOR (25-PINS, GRAY)	Rear RH side of engine compartment	27-3	01-5
X21	CONNECTOR (25-PINS, BLACK)	LH side of engine (840Ci)	20-1	01-5
X21	CONNECTOR (25-PINS, BLUE)	Rear RH side of engine compartment	27-3	01-5
X22	CONNECTOR (26-PINS, BLUE)	In RH rear side of luggage compartment (840Ci)	46-3	01-2
X25	CONNECTOR (4-PINS, BLACK)	RH side of engine compartment on washer fluid reservoir	27-1	10-1
X27	CONNECTOR (1-PINS, (---))	In LH auxiliary relay box, engine compartment	22-1	
X31	CONNECTOR (12-PINS, BLACK)	LH side of engine compartment under concealing headlight		03-4

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X32	CONNECTOR (12-PINS, WHITE)	Below LH side of dash	31-1	04-3
X33	CONNECTOR (12-PINS, BLACK)	Below LH side of dash	31-1	04-3
X36	CONNECTOR (21-PINS, BLACK)	Below center console	34-3	01-6
X38	CONNECTOR (20-PINS, BLACK)	Below LH side of dash	30-2	02-1
X39	CONNECTOR (26-PINS, GREEN)	Below LH side of dash	30-1	01-2
X40	CONNECTOR (26-PINS, BROWN)	Below LH side of dash	30-1	01-2
X41	CONNECTOR (26-PINS, BLUE)	Below LH side of dash	30-1	01-2
X42	CONNECTOR (5-PINS, BLACK)	Below LH side of dash	30-1	08-4
X43	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X46	GROUND	RH side of dash		
X52	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X53	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X54	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X55	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X57	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X58	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X61	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X63	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X64	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X65	CONNECTOR (9-PINS, BROWN)	Rear LH side of engine compartment in Front Power Distribution Box		05-4

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X69	CONNECTOR (25-PINS, BLACK)	Rear RH side of engine compartment near shock tower (840Ci)	19-3	01-5
X69	CONNECTOR (25-PINS, BLACK)	Rear RH side of engine compartment	27-3	01-5
X70	CONNECTOR (8-PINS, BLACK)	Front LH side of engine compartment	19-1	05-5
X72	CONNECTOR (8-PINS, WHITE)	Below LH side of dash	31-1	06-3
X73	CONNECTOR (8-PINS, WHITE)	Below LH side of dash	31-3	06-4
X74	CONNECTOR (30-PINS, ORANGE)	Below RH side of dash	33-2	12-5
X76	CONNECTOR (8-PINS, BLACK)	Below LH side of dash		
X77	CONNECTOR (10-PINS, BLACK)	LH side of LH footwell	32-2	04-6
X78	CONNECTOR (4-PINS, BLACK)	Below LH side of dash	31-2	09-2
X82	CONNECTOR (3-PINS, BLACK)	Front of engine compartment on auxiliary fan	16-3	11-4
X83	CONNECTOR (9-PINS, BLACK)	In Front Power Distribution Box		05-4
X85	CONNECTOR (3-PINS, BLACK)	Rear LH side of engine compartment	19-2	11-4
X87	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment	23-3	11-4
X88	CONNECTOR (2-PINS, BLACK)	LH side of dash		
X95	CONNECTOR (3-PINS, BLACK)	Front of engine right (840Ci)	21-1	11-4
X101	CONNECTOR (2-PINS, BLACK)	On underside of engine hood left		
X102	CONNECTOR (1-PINS, (---))	Rear LH side of engine compartment	23-1	
X103	CONNECTOR (1-PINS, (---))	Rear LH side of engine compartment	23-2	
X105	CONNECTOR (2-PINS, GRAY)	On underside of engine hood left	16-2	
X106	CONNECTOR (2-PINS, GRAY)	On underside of engine hood		

carfiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X107 ..	CONNECTOR (2-PINS, GRAY)	RH side of engine compartment on washer fluid reservoir	27-1	
X109 ..	CONNECTOR (2-PINS, BLACK)	RH side of engine compartment on washer fluid reservoir	27-2	
X110 ..	CONNECTOR (2-PINS, GRAY)	RH side of engine compartment on washer fluid reservoir		
X111 ..	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment		
X113 ..	CONNECTOR (3-PINS, WHITE)	RH front of wheel well		13-1
X114 ..	CONNECTOR (3-PINS, GRAY)	Behind LH front wheel		13-1
X118 ..	CONNECTOR (2-PINS, BLACK)	Behind LH front wheel	14-1	
X119 ..	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment near brake fluid reservoir	23-1	
X120 ..	CONNECTOR (2-PINS, BLACK)	Under LH front of car		
X121 ..	CONNECTOR (2-PINS, WHITE)	Below LH side of dash	31-2	
X122 ..	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment	19-2	
X126 ..	CONNECTOR (2-PINS, WHITE)	RH side of engine compartment under concealing headlight		
X128 ..	CONNECTOR (7-PINS, BLACK)	Near LH headlight assembly front of vehicle	12-3	06-6
X130 ..	CONNECTOR (7-PINS, BLACK)	Front LH side of engine compartment	19-1	06-6
X132 ..	CONNECTOR (2-PINS, BLACK)	Front of car		
X133 ..	CONNECTOR (2-PINS, BLACK)	Front of car		
X135 ..	CONNECTOR (7-PINS, BLACK)	Front RH side of engine compartment	27-2	06-6
X137 ..	CONNECTOR (7-PINS, BLACK)	Near RH headlight assembly front of vehicle	13-1	06-6
X142 ..	CONNECTOR (3-PINS, GRAY)	Behind LH rear wheel		13-1
X143 ..	CONNECTOR (3-PINS, GRAY)	Under RH rear of car	13-3	13-1

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X145	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	24-1	
X161	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly	12-1	
X165	GROUND	Behind LH footwell speaker grille	11-1	
X167	GROUND	LH side of engine compartment	09-2	
X168	CONNECTOR (1-PINS, BLACK)	On steering column		
X170	CONNECTOR (1-PINS, (---))	Front LH side of engine compartment under concealing headlight		
X173	GROUND	Front RH side of engine compartment (headlights removed)	09-3	
X252	CONNECTOR (26-PINS, BLACK)	Inside box on interior side of RH door sill	32-1	01-2
X253	CONNECTOR (26-PINS, BLACK)	Below LH side of dash	30-2	01-2
X254	CONNECTOR (26-PINS, YELLOW)	Below LH side of dash	30-2	01-2
X256	CONNECTOR (26-PINS, BLACK)	Ahead of RH front door		01-3
X257	CONNECTOR (26-PINS, BLACK)	Ahead of LH front door		01-3
X258	CONNECTOR (20-PINS, BLACK)	Inside box on interior side of LH door sill on RELAY MODULE, A5	29-2	02-1
X259	CONNECTOR (26-PINS, BLACK)	Inside box on interior side of LH door sill on RELAY MODULE, A5	29-2	01-2
X263	CONNECTOR (26-PINS, WHITE)	In RH side of luggage compartment	42-3	01-2
X272	CONNECTOR (6-PINS, BLACK)	Left from LH rear seat behind trim panel		07-6
X275	CONNECTOR (12-PINS, WHITE)	Underside of LH front seat	46-2	04-1
X279	CONNECTOR (12-PINS, WHITE)	Under RH front seat		04-1
X280	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X281	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X283 ..	CONNECTOR (4-PINS, BLACK)	Front LH side of engine compartment	19-1	09-4
X284 ..	CONNECTOR (4-PINS, BLACK)	Front RH side of engine compartment	27-2	09-4
X287 ..	CONNECTOR (9-PINS, BLACK)	In LH side of luggage compartment		05-4
X291 ..	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X292 ..	CONNECTOR (9-PINS, BLACK)	In LH side of luggage compartment Power Distribution Box		05-4
X294 ..	CONNECTOR (9-PINS, BLACK)	Rear Power Distribution Box in LH side of luggage compartment		05-4
X295 ..	CONNECTOR (8-PINS, BLACK)	Below LH side of dash	31-1	06-3
X296 ..	CONNECTOR (6-PINS, NATURAL)	In LH rear side of luggage compartment	41-2	07-6
X301 ..	CONNECTOR (26-PINS, WHITE)	Inside box on interior side of RH door sill	32-1	01-2
X306 ..	CONNECTOR (30-PINS, BLUE)	LH side of LH footwell	29-1	01-1
X307 ..	GROUND	Behind LH footwell speaker grille	11-1	
X307 ..	GROUND	Behind LH footwell speaker grille	32-3	
X310 ..	CONNECTOR (6-PINS, BLACK)	Behind glove box right		07-6
X311 ..	CONNECTOR (2-PINS, BLACK)	Rear of car		
X312 ..	CONNECTOR (6-PINS, BLACK)	In RH rear side of luggage compartment	43-3	08-2
X316 ..	CONNECTOR (6-PINS, WHITE)	In driver's door	39-1	07-2
X317 ..	CONNECTOR (6-PINS, BLACK)	In passenger's door		07-2
X318 ..	CONNECTOR (6-PINS, BLACK)	In RH rear side of luggage compartment	43-2	07-6
X319 ..	CONNECTOR (6-PINS, BLACK)	In LH rear side of luggage compartment	41-2	07-6
X321 ..	CONNECTOR (4-PINS, BLACK)	Below center console	34-3	09-6

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X322	CONNECTOR (8-PINS, BLACK)	Below center console	34-3	06-3
X331	CONNECTOR (5-PINS, BLACK)	Inside box on interior side of RH door sill	32-1	08-4
X332	CONNECTOR (26-PINS, WHITE)	Below LH side of dash	30-2	01-2
X333	CONNECTOR (12-PINS, BLACK)	Rear LH side of engine compartment	23-1	03-3
X335	CONNECTOR (4-PINS, BLACK)	Inside box on interior side of RH door sill	32-1	10-3
X336	CONNECTOR (4-PINS, WHITE)	Center of windshield header	35-2	09-3
X351	CONNECTOR (2-PINS, BLACK)	In passenger's door	38-1	
X352	CONNECTOR (2-PINS, BLACK)	In driver's door	38-1	
X355	CONNECTOR (2-PINS, BLACK)	Behind RH footwell trim		
X356	CONNECTOR (2-PINS, BLACK)	In upper LH C-pillar	36-2	
X371	CONNECTOR (2-PINS, BLACK)	Near RH headlight assembly	12-2	
X372	CONNECTOR (2-PINS, WHITE)	Behind RH fresh air cowl		
X379	CONNECTOR (1-PINS, BLACK)	In upper LH C-pillar	36-2	
X380	CONNECTOR (1-PINS, BLACK)	In upper RH C-pillar	36-3	
X381	CONNECTOR (2-PINS, BLACK)	In roof panel DRIVER'S MAKEUP MIRROR LIGHT, E35		
X382	CONNECTOR (2-PINS, BLACK)	In roof panel PASSENGER'S MAKEUP MIRROR LIGHT, E36		
X383	CONNECTOR (2-PINS, BLACK)	On differential	13-3	
X388	CONNECTOR (2-PINS, BLACK)	Behind LH footwell speaker grille	32-3	
X389	CONNECTOR (2-PINS, BLACK)	In LH front bumper LEFT FRONT AUXILIARY TURN LIGHT, H9		
X390	CONNECTOR (2-PINS, BLACK)	In RH front bumper RIGHT FRONT AUXILIARY TURN LIGHT, H8		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X393	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment behind trim panel	41-1	06-4
X394	CONNECTOR (12-PINS, BLACK)	Underside of LH front seat	46-2	04-3
X400	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment	41-3	06-3
X401	CONNECTOR (2-PINS, BLACK)	Above LH sun visor		
X402	CONNECTOR (2-PINS, BLACK)	Above RH sun visor		
X405	CONNECTOR (3-PINS, BLUE)	Behind LH front wheel		11-1
X406	CONNECTOR (3-PINS, BLUE)	RH front of wheel well		11-1
X407	CONNECTOR (3-PINS, BLUE)	Behind LH rear wheel		11-1
X408	CONNECTOR (3-PINS, BLUE)	Under RH rear of car	13-3	11-1
X413	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf		
X423	CONNECTOR (2-PINS, BLACK)	Below front of console		
X490	GROUND	Inside box on interior side of LH door sill	11-2	
X490	GROUND	Inside box on interior side of LH door sill	29-2	
X492	GROUND	Behind LH footwell speaker grille	11-1	
X492	GROUND	Behind LH footwell speaker grille	32-3	
X494	GROUND	In RH side of luggage compartment	10-3	
X494	GROUND	In RH side of luggage compartment	43-2	
X495	GROUND	Underside of RH rear seat		
X497	GROUND	In LH rear side of luggage compartment	10-2	
X497	GROUND	In LH rear side of luggage compartment	41-2	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X500 ..	CONNECTOR (1-PINS, (---))	In RH side of luggage compartment FUSIBLE LINK, F0		
X501 ..	CONNECTOR (18-PINS, BLACK)	Center console		02-3
X503 ..	CONNECTOR (12-PINS, BLACK)	LH side of dash		04-2
X504 ..	CONNECTOR (12-PINS, BLACK)	LH side of dash FOG LIGHT SWITCH, S10		04-2
X506 ..	CONNECTOR (12-PINS, WHITE)	Below center console	34-2	04-3
X509 ..	CONNECTOR (9-PINS, WHITE)	Below LH side of dash RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY, K25		05-4
X511 ..	CONNECTOR (8-PINS, BLACK)	Near gearshift lever		06-4
X512 ..	CONNECTOR (12-PINS, BLACK)	Inside box on interior side of RH door sill	32-1	04-1
X514 ..	CONNECTOR (4-PINS, BLACK)	Center of dash		09-2
X516 ..	CONNECTOR (5-PINS, BLACK)	Center console		08-5
X517 ..	CONNECTOR (4-PINS, BLACK)	LH side of dash DIMMER, N3		09-2
X518 ..	CONNECTOR (4-PINS, BLACK)	Below RH side of dash under glove box	33-1	09-2
X521 ..	CONNECTOR (6-PINS, BLUE)	Center console	34-1	07-2
X522 ..	CONNECTOR (3-PINS, WHITE)	Below RH side of dash under glove box	33-1	10-6
X523 ..	CONNECTOR (6-PINS, BLACK)	Inside box on interior side of LH door sill		08-3
X529 ..	CONNECTOR (6-PINS, BLACK)	Center console		07-2
X531 ..	CONNECTOR (2-PINS, WHITE)	Center of dash FRONT CIGAR LIGHTER, E28		
X532 ..	CONNECTOR (2-PINS, BLACK)	Center of dash FRONT CIGAR LIGHTER LIGHT, E29		
X537 ..	CONNECTOR (2-PINS, BLACK)	LH front door behind door panel LEFT FRONT MIDRANGE SPEAKER, H55	36-1	
X538 ..	CONNECTOR (2-PINS, BLACK)	At back of rear window shelf RIGHT FRONT MIDRANGE SPEAKER, H54		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X539	CONNECTOR (2-PINS, WHITE)	Below center console	34-2	
X540	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box RH side of IHKA Plenum		
X541	CONNECTOR (1-PINS, BLACK)	RH side of glove box		
X542	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box RH side of IHKA Plenum		
X543	CONNECTOR (3-PINS, BLACK)	Center of dash DASH LIGHT, E41		10-5
X546	CONNECTOR (2-PINS, WHITE)	Below center console	34-2	
X601	CONNECTOR (26-PINS, YELLOW)	Underside of LH front seat	46-2	01-4
X603	CONNECTOR (12-PINS, BLACK)	LH front seat DRIVER'S MEMORY SEAT ADJUSTMENT SWITCH, S50		04-4
X604	CONNECTOR (12-PINS, BLACK)	RH front seat PASSENGER'S SEAT, SEAT CONTROL SWITCH, S56		04-4
X605	CONNECTOR (12-PINS, BLACK)	In LH forward side of luggage compartment	44-1	04-1
X606	CONNECTOR (26-PINS, WHITE)	In LH forward side of luggage compartment	44-1	01-2
X607	CONNECTOR (12-PINS, WHITE)	Behind dashboard behind glove box	33-2	03-6
X610	CONNECTOR (26-PINS, WHITE)	Between front footwells		01-2
X611	CONNECTOR (26-PINS, BLACK)	Between front footwells		01-2
X612	CONNECTOR (26-PINS, BLUE)	Center of dash		01-2
X613	CONNECTOR (26-PINS, BLUE)	Between front footwells		01-2
X614	CONNECTOR (26-PINS, YELLOW)	Between front footwells		01-2
X621	CONNECTOR (10-PINS, BLACK)	Ahead of RH front door		05-3
X622	CONNECTOR (10-PINS, BLACK)	Ahead of LH front door		05-2
X623	CONNECTOR (10-PINS, BLACK)	In upper LH front door	38-2	05-1

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X624	CONNECTOR (10-PINS, BLACK)	In upper RH front door	38-2	05-1
X625	CONNECTOR (6-PINS, WHITE)	In driver's door behind door panel	39-1	08-2
X627	CONNECTOR (2-PINS, BLACK)	Center of windshield header		
X638	CONNECTOR (3-PINS, BLACK)	Under RH rear seat	37-2	11-4
X641	CONNECTOR (6-PINS, BLACK)	In lower RH side of front door		07-5
X643	CONNECTOR (6-PINS, BLUE)	Center of windshield header SUNROOF SWITCH, S38	35-2	08-2
X650	CONNECTOR (6-PINS, BLACK)	LH front seat MEMORY SEAT MIRRORS SWITCH, S57		07-2
X651	CONNECTOR (6-PINS, YELLOW)	LH front seat DRIVER'S SEAT, SEAT HEATER SWITCH, S53	34-1	07-2
X652	CONNECTOR (4-PINS, BLACK)	LH front seat DRIVER'S SEAT LUMBAR SWITCH, S52		09-2
X658	CONNECTOR (6-PINS, YELLOW)	RH front seat PASSENGER'S SEAT, SEAT HEATER SWITCH, S54	34-1	07-2
X659	CONNECTOR (4-PINS, BLACK)	RH front seat PASSENGER'S SEAT, SEAT HEATER SWITCH, S54		09-2
X660	CONNECTOR (6-PINS, BLACK)	In lower LH front door		07-5
X661	CONNECTOR (6-PINS, GRAY)	Behind center of dashboard left		08-1
X662	CONNECTOR (6-PINS, GRAY)	Below LH side of dash		08-1
X663	CONNECTOR (6-PINS, GRAY)	LH side of IHKA Plenum		08-1
X664	CONNECTOR (6-PINS, GRAY)	LH side of IHKA Plenum		08-1
X666	CONNECTOR (6-PINS, GRAY)	Center of dash left of radio		08-1
X667	CONNECTOR (6-PINS, GRAY)	Below LH side of dash		08-1
X668	CONNECTOR (6-PINS, GRAY)	LH side of RH footwell		08-1
X669	CONNECTOR (6-PINS, GRAY)	RH side of dash behind glove box		08-1

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100 0	8500 0
X670	CONNECTOR (6-PINS, GRAY)	Behind center of dashboard right		08-1
X671	CONNECTOR (5-PINS, BLACK)	LH side of RH footwell		08-4
X672	CONNECTOR (4-PINS, BLACK)	In luggage compartment		09-5
X675	CONNECTOR (4-PINS, WHITE)	In luggage compartment		08-6
X676	CONNECTOR (4-PINS, BLACK)	In luggage compartment		08-6
X678	CONNECTOR (12-PINS, WHITE)	Underside of LH front seat	46-2	04-3
X679	CONNECTOR (2-PINS, WHITE)	Under LH rear seat	37-1	
X682	CONNECTOR (3-PINS, BLACK)	Center of dash		10-5
X684	CONNECTOR (3-PINS, BLACK)	RH front door right		11-4
X685	CONNECTOR (3-PINS, BLACK)	In upper LH front door left	38-3	11-4
X686	CONNECTOR (3-PINS, BLUE)	Underside of LH front seat	46-2	10-4
X687	CONNECTOR (3-PINS, BLUE)	LH front seat		10-4
X688	CONNECTOR (3-PINS, BLUE)	LH front seat		10-4
X690	CONNECTOR (3-PINS, BLUE)	Underside of LH front seat	46-2	10-4
X692	CONNECTOR (3-PINS, BLACK)	Center of dash		12-2
X700	CONNECTOR (2-PINS, BLACK)	Behind RH footwell kickpanel		
X701	CONNECTOR (2-PINS, BLACK)	Behind LH footwell speaker grille	32-3	
X706	CONNECTOR (2-PINS, BLACK)	Center console CASSETTE TAPE PLAYER LIGHT, E45		
X709	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid LEFT LICENSE PLATE LIGHT, E43		
X710	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid RIGHT LICENSE PLATE LIGHT, E44		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100 0	8500 0
X711	CONNECTOR (1-PINS, BLACK)	Underside of trunk lid TRUNK LID SWITCH, S61		
X712	CONNECTOR (1-PINS, BLACK)	Underside of trunk lid TRUNK LID LIGHT, E33		
X713	CONNECTOR (2-PINS, BLACK)	Behind RH rear wheel		
X714	CONNECTOR (4-PINS, BLACK)	RH side of RH rear seat behind trim panel	37-3	09-2
X715	CONNECTOR (2-PINS, BLACK)	Left from LH rear seat behind trim panel	37-3	
X720	CONNECTOR (4-PINS, BLACK)	Left from LH rear seat behind trim panel		09-2
X721	CONNECTOR (2-PINS, BLACK)	RH side of RH rear seat behind trim panel		
X726	CONNECTOR (2-PINS, BLACK)	Under LH front seat		
X727	CONNECTOR (2-PINS, WHITE)	Under LH front seat		
X728	CONNECTOR (2-PINS, WHITE)	Under LH front seat		
X729	CONNECTOR (2-PINS, BLACK)	In lower LH front seatback		
X734	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X735	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X736	CONNECTOR (2-PINS, BLACK)	In lower RH front seatback		
X737	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X742	CONNECTOR (2-PINS, YELLOW)	RH front door		
X744	CONNECTOR (6-PINS, BLACK)	In lower RH side of front door		07-5
X745	CONNECTOR (2-PINS, BLACK)	In upper RH C-pillar	36-3	
X746	CONNECTOR (2-PINS, BLACK)	In upper RH front door		
X747	CONNECTOR (2-PINS, YELLOW)	In upper LH front door left	38-3	

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100 0	8500 0
X748	CONNECTOR (2-PINS, WHITE)	In lower LH front door behind door panel	36-1	
X749	CONNECTOR (6-PINS, BLACK)	In lower LH front door	39-2	07-5
X751	CONNECTOR (2-PINS, WHITE)	In upper LH front door left	38-3	
X752	CONNECTOR (2-PINS, GRAY)	In upper LH front door left	38-3	
X753	CONNECTOR (2-PINS, BLACK)	In lower LH front door behind door panel	36-1	
X770	CONNECTOR (2-PINS, YELLOW)	In ventilation duct left	24-3	
X771	CONNECTOR (2-PINS, BLACK)	RH side of LH footwell		
X772	CONNECTOR (2-PINS, WHITE)	Center console left behind radio		
X773	CONNECTOR (2-PINS, WHITE)	Center console right behind radio		
X774	CONNECTOR (2-PINS, GRAY)	Behind center of cowl under RH side of windshield		
X778	CONNECTOR (3-PINS, BLACK)	Underside of LH front seat		10-5
X779	CHARGING SOCKET	LH side of glove box		
X782	CONNECTOR (3-PINS, ORANGE)	Below RH side of dash		11-6
X816	CONNECTOR (1-PINS, BLACK)	Behind center of cowl		
X817	CONNECTOR (1-PINS, BLACK)	Behind center of cowl		
X818	GROUND	Below LH side of dash	11-3	
X818	GROUND	Below LH side of dash	31-3	
X848	CONNECTOR (4-PINS, GREEN)	At back of rear window shelf	14-3	10-3
X881	CONNECTOR (6-PINS, WHITE)	RH front seat PASSENGER'S THIGH SUPPORT SWITCH, S94		08-2
X882	CONNECTOR (2-PINS, BLACK)	Under LH front seat		

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X883	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X884	CONNECTOR (3-PINS, BLUE)	Under LH front seat		10-4
X886	CONNECTOR (6-PINS, WHITE)	LH front seat DRIVER'S THIGH SUPPORT SWITCH, S93		08-2
X887	CONNECTOR (26-PINS, BLACK)	In driver's door	39-3	01-2
X889	CONNECTOR (26-PINS, WHITE)	In passenger's door	39-3	01-2
X898	CONNECTOR (6-PINS, BLACK)	Center of dash REAR WINDOW DEFOGGER SWITCH, S76		07-2
X909	CONNECTOR (2-PINS, GRAY)	RH front door right		
X916	CONNECTOR (5-PINS, BLACK)	Center of windshield header	35-1	08-4
X917	CONNECTOR (6-PINS, BLACK)	Center of windshield header	35-1	07-2
X924	CONNECTOR (6-PINS, BLACK)	Underside of trunk lid left	44-3	07-6
X925	CONNECTOR (6-PINS, BLACK)	Underside of trunk lid right	44-3	07-6
X932	CONNECTOR (2-PINS, GRAY)	In driver's door	38-1	
X933	CONNECTOR (2-PINS, GRAY)	In passenger's door	38-1	
X936	CONNECTOR (2-PINS, WHITE)	In driver's door	39-3	
X937	CONNECTOR (2-PINS, WHITE)	In passenger's door	39-3	
X941	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X945	CONNECTOR (10-PINS, WHITE)	In RH side of luggage compartment	42-3	04-6
X947	CONNECTOR (6-PINS, BLACK)	Center console	35-3	07-2
X949	CONNECTOR (5-PINS, BLACK)	At back of rear window shelf	14-3	08-4
X998	CONNECTOR (2-PINS, NATURAL)	LH front seat RH DRIVER'S SEATBACK SWITCH, S103		

carlagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X999 ..	CONNECTOR (2-PINS, WHITE)	RH front seat LH DRIVER'S SEATBACK SWITCH, S104		
X1001 .	CONNECTOR (4-PINS, NATURAL)	In RH rear side of luggage compartment	43-1	09-2
X1002 .	CONNECTOR (4-PINS, NATURAL)	In LH rear side of luggage compartment	41-3	09-2
X1003 .	CONNECTOR (12-PINS, BLACK)	Below center console	34-3	04-3
X1010 .	CONNECTOR (2-PINS, BLACK)	RH side of engine compartment under concealing headlight		
X1011 .	CONNECTOR (2-PINS, GRAY)	RH side of engine compartment on washer fluid reservoir	27-2	
X1021 .	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X1165 .	GROUND	Front LH side of engine compartment		
X1178 .	CONNECTOR (2-PINS, BLACK)	Near gearshift lever		
X1193 .	CONNECTOR (3-PINS, BLACK)	Below center console		
X1204 .	CONNECTOR (2-PINS, WHITE)	Left from LH rear seat behind trim panel	37-3	
X1205 .	CONNECTOR (2-PINS, WHITE)	RH side of RH rear seat behind trim panel		
X1229 .	CONNECTOR (4-PINS, BLACK)	Center of dash behind radio		10-3
X1230 .	CONNECTOR (4-PINS, WHITE)	Left from LH rear seat behind trim panel	37-3	09-3
X1372 .	CONNECTOR (2-PINS, BLACK)	LH side of glove box		
X1375 .	CONNECTOR (2-PINS, BLACK)	LH side of glove box left		
X1376 .	CONNECTOR (9-PINS, BLACK)	Rear Power Distribution Box		05-4
X1377 .	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid	44-2	
X1426 .	CONNECTOR (1-PINS, BROWN)	Below RH side of dash		
X1439 .	CONNECTOR (2-PINS, BLACK)	Center console		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X3210	CONNECTOR (26-PINS, BLUE)	Behind RH footwell speaker grille	33-3	01-4
X3211	CONNECTOR (4-PINS, BLACK)	Front LH side of engine compartment	16-3	10-2
X6000	CONNECTOR (88-PINS, BLACK)	In E-Box (840Ci)	21-3	00-1
X6002	CONNECTOR (20-PINS, BLACK)	Rear RH side of engine compartment near shock tower (840Ci)	19-3	02-2
X6002	CONNECTOR (20-PINS, BLACK)	RH side of engine compartment	25-2	02-2
X6004	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment in E-Box	28-1	00-2
X6010	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box	28-1	00-1
X6020	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box	28-1	00-1
X6099	CONNECTOR (1-PINS, BLACK)	Front of engine left		
X6101	CONNECTOR (2-PINS, BLACK)	RH cylinder head (840Ci)		
X6101	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6102	CONNECTOR (2-PINS, BLACK)	RH cylinder head (840Ci)		
X6102	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6103	CONNECTOR (2-PINS, BLACK)	RH cylinder head (840Ci)		
X6103	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6104	CONNECTOR (2-PINS, BLACK)	RH cylinder head (840Ci)		
X6104	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6105	CONNECTOR (2-PINS, BLACK)	LH cylinder head (840Ci)		
X6105	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6106	CONNECTOR (2-PINS, BLACK)	LH cylinder head (840Ci)		

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X6106	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6107	CONNECTOR (2-PINS, BLACK)	LH cylinder head (840Ci)		
X6107	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6108	CONNECTOR (2-PINS, BLACK)	LH cylinder head (840Ci)		
X6108	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6109	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6110	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6111	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6112	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6120	CONNECTOR (2-PINS, BLACK)	Front of engine (840Ci)	21-1	
X6121	CONNECTOR (2-PINS, BLACK)	RH side of engine compartment under air filter	25-2	
X6122	CONNECTOR (2-PINS, WHITE)	RH side of engine compartment under air filter	25-2	
X6130	CONNECTOR (3-PINS, GRAY)	Front of engine (840Ci)	20-3	12-1
X6151	CONNECTOR (3-PINS, BLACK)	RH cylinder head (840Ci)		13-6
X6152	CONNECTOR (3-PINS, BLACK)	RH cylinder head (840Ci)		13-6
X6153	CONNECTOR (3-PINS, BLACK)	RH cylinder head (840Ci)		13-6
X6154	CONNECTOR (3-PINS, BLACK)	RH cylinder head (840Ci)		13-6
X6155	CONNECTOR (3-PINS, BLACK)	LH cylinder head (840Ci)		13-6
X6156	CONNECTOR (3-PINS, BLACK)	LH cylinder head (840Ci)		13-6
X6157	CONNECTOR (3-PINS, BLACK)	LH cylinder head (840Ci)		13-6

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6158	CONNECTOR (3-PINS, BLACK)	LH cylinder head (840Ci)		13-6
X6203	CONNECTOR (3-PINS, BLACK)	RH cylinder head (840Ci)	20-2	
X6204	CONNECTOR (3-PINS, BLACK)	LH cylinder head (840Ci)	20-1	
X6210	CONNECTOR (4-PINS, BLACK)	On catalytic converter under center of car	15-3	10-1
X6210	CONNECTOR (4-PINS, BLACK)	On catalytic converter under center of car	22-3	10-1
X6211	CONNECTOR (3-PINS, GRAY)	Front of engine left	25-3	12-1
X6212	CONNECTOR (3-PINS, BLACK)	Front of engine compartment	25-3	12-1
X6215	CONNECTOR (2-PINS, BLACK)	Front of engine (840Ci)	20-2	
X6216	CONNECTOR (7-PINS, BLACK)	LH side of engine compartment	24-2	06-5
X6217	CONNECTOR (4-PINS, BLACK)	Front of engine	22-2	10-1
X6220	CONNECTOR (4-PINS, BLACK)	On catalytic converter under center of car	15-3	10-1
X6220	CONNECTOR (4-PINS, BLACK)	On catalytic converter under center of car	22-3	10-1
X6221	CONNECTOR (3-PINS, BLACK)	Front of engine	25-3	12-1
X6222	CONNECTOR (3-PINS, GRAY)	Front of engine	25-3	12-1
X6225	CONNECTOR (2-PINS, BLACK)	Rear of engine		
X6226	CONNECTOR (7-PINS, BLACK)	RH side of engine compartment		06-5
X6230	CONNECTOR (3-PINS, BLACK)	Under LH front of car	15-1	12-1
X6232	CONNECTOR (2-PINS, BLACK)	RH side of engine rear (840Ci)	21-2	
X6234	CONNECTOR (2-PINS, WHITE)	On coolant inlet		
X6235	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment in E-Box	28-3	

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X6236	CONNECTOR (2-PINS, WHITE)	RH side of engine rear (840Ci)	21-2	12-1
X6241	CONNECTOR (2-PINS, BLACK)	RH cylinder head (840Ci)	20-2	
X6242	CONNECTOR (2-PINS, BLACK)	RH cylinder head (840Ci)	20-2	
X6243	CONNECTOR (2-PINS, BLACK)	LH cylinder head (840Ci)	20-1	
X6244	CONNECTOR (2-PINS, BLACK)	LH cylinder head (840Ci)	20-1	
X6252	CONNECTOR (3-PINS, BLACK)	Front of engine (840Ci)	20-3	12-1
X6253	CONNECTOR (3-PINS, BLACK)	Front of engine (840Ci)	20-3	12-1
X6300	CONNECTOR (9-PINS, BLACK)	In E-Box		05-4
X6301	CONNECTOR (9-PINS, BLACK)	In E-Box		05-4
X6303	CONNECTOR (9-PINS, BLACK)	In E-Box		05-4
X6310	CONNECTOR (9-PINS, WHITE)	Rear RH side of engine compartment in E-Box		05-4
X6311	CONNECTOR (9-PINS, YELLOW)	Rear RH side of engine compartment in E-Box		05-4
X6320	CONNECTOR (9-PINS, WHITE)	Rear RH side of engine compartment in E-Box		05-4
X6321	CONNECTOR (9-PINS, YELLOW)	Rear RH side of engine compartment in E-Box		05-4
X6360	CONNECTOR (8-PINS, BLACK)	Front of engine left	26-3	05-5
X6370	CONNECTOR (8-PINS, BLACK)	Front RH side of engine compartment	26-3	05-5
X6400	B+ JUNCTION POINT	Rear RH side of engine compartment in E-Box	07-2	
X6400	B+ JUNCTION POINT	In E-Box (840Ci)	21-3	
X6400	B+ JUNCTION POINT	Rear RH side of engine compartment in E-Box	28-2	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0	8500.0
X6401 . B+ JUNCTION POINT	Behind rear panel in the luggage compartment in RH side of luggage compartment behind side panel		
X6402 . GROUND	In LH rear side of luggage compartment behind trim panel	41-1	
X6403 . CONNECTOR (1-PINS, (---))	In RH rear side of luggage compartment (840Ci)	46-3	
X6405 . GROUND	In RH side of luggage compartment	10-1	
X6405 . GROUND	In RH side of luggage compartment	42-2	
X6406 . B+	In RH side of luggage compartment	08-1	
X6406 . B+	In RH side of luggage compartment	42-2	
X6452 . GROUND	Rear RH side of engine compartment near shock tower	09-1	
X6452 . GROUND	Rear RH side of engine compartment near shock tower (840Ci)	19-3	
X6452 . GROUND	Rear RH side of engine compartment near shock tower	27-3	
X6453 . GROUND	Rear RH side of engine compartment near shock tower	09-1	
X6453 . GROUND	RH side of engine rear (840Ci)	21-2	
X6453 . GROUND	Rear RH side of engine compartment near shock tower	27-3	
X6506 . CONNECTOR (4-PINS, BLACK)	Rear RH side of engine compartment in E-Box	28-3	09-2
X6510 . CONNECTOR (1-PINS, (---))	At starter		
X6511 . CONNECTOR (1-PINS, (---))	At starter		
X6512 . CONNECTOR (1-PINS, (---))	At starter		
X6519 . CONNECTOR (1-PINS, (---))	At generator		
X7151 . CONNECTOR (1-PINS, (---))	RH side of engine compartment	25-1	

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100 0	8500 0
X7152	CONNECTOR (1-PINS, (---))	LH side of engine compartment	18-3	
X7512	B+ JUNCTION POINT	Rear LH side of engine compartment	07-1	
X7512	B+ JUNCTION POINT	Rear LH side of engine compartment	19-2	
X7519	CONNECTOR (1-PINS, BLACK)	LH side of engine compartment below intake manifold		
X8151	CONNECTOR (1-PINS, (---))	RH side of engine compartment	25-1	
X8152	CONNECTOR (1-PINS, (---))	LH side of engine compartment	18-3	
X8500	CONNECTOR (35-PINS, NATURAL)	In RH rear side of luggage compartment		00-3
X8505	CONNECTOR (16-PINS, BLACK)	On RH side of transmission	22-3	13-5
X8505	CONNECTOR (8-PINS, BLACK)	Under center of car		06-1
X8507	CONNECTOR (1-PINS, BLACK)	RH side of LH footwell		
X8509	CONNECTOR (8-PINS, BLACK)	Center console near gearshift lever	34-1	06-4
X8511	CONNECTOR (2-PINS, BLACK)	On RH side of transmission	15-3	
X8517	CONNECTOR (6-PINS, WHITE)	Center console near gearshift lever	34-2	07-2
X8518	CONNECTOR (3-PINS, BLACK)	Center console near gearshift lever		10-5
X8522	CONNECTOR (2-PINS, BLACK)	Center console		
X8600	CONNECTOR (88-PINS, BLACK)	In E-Box (840Ci)	21-3	00-1
X9423	CONNECTOR (2-PINS, BLACK)	Below front of console		
X10006	CONNECTOR (1-PINS, BLACK)	RH side of glove box above		
X10039	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		04-5
X10040	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		04-5

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X10041	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		04-5
X10042	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		04-5
X10044	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X10045	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X10046	CONNECTOR (2-PINS, BLACK)	In spare-wheel well	45-2	
X10047	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X10051	CONNECTOR (4-PINS, BLACK)	LH side of dash		09-6
X10052	CONNECTOR (1-PINS, BLACK)	Rear LH side of engine compartment	23-1	
X10053	CONNECTOR (1-PINS, BLACK)	Rear LH side of engine compartment	23-2	
X10058	CONNECTOR (1-PINS, YELLOW)	LH footwell	29-3	
X10094	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment	19-1	
X10094	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment		
X10195	CONNECTOR (3-PINS, BLACK)	On steering wheel		11-5
X10218	CONNECTOR (3-PINS, NATURAL)	In passenger's seat area		10-5
X11244	CONNECTOR (2-PINS, BLACK)	In ventilation duct right		
X11257	CONNECTOR (1-PINS, (---))	In LH auxiliary relay box, engine compartment	22-1	
X13001	CONNECTOR (9-PINS, BLACK)	Rear Power Distribution Box CONSUMER CUT-OFF RELAY I, K72		05-4
X13008	CONNECTOR (2-PINS, WHITE)	Under RH rear seat	37-2	
X13015	CONNECTOR (9-PINS, BLACK)	In LH side of luggage compartment CONSUMER CUT-OFF RELAY II, K73		05-4
X13017	CONNECTOR (1-PINS, BLACK)	In upper LH C-pillar	36-2	

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100 0	8500 0
X13018	CONNECTOR (1-PINS, BLACK)	In upper RH C-pillar	36-3	
X13027	CONNECTOR (1-PINS, BLACK)	Underside of trunk lid TRUNK LID SWITCH, S61		
X13049	CONNECTOR (1-PINS, BROWN)	In upper LH C-pillar	36-2	
X13052	CONNECTOR (10-PINS, BLACK)	LH side of LH footwell	32-2	04-5
X13109	CONNECTOR (6-PINS, BLACK)	Under LH front seat		07-3
X13110	CONNECTOR (6-PINS, BLACK)	Under RH front seat		07-3
X13139	CONNECTOR (10-PINS, BLACK)	In rear view mirror		05-1
X13167	CONNECTOR (9-PINS, BLACK)	Below LH side of dash		05-4
X13280	CONNECTOR (3-PINS, BLACK)	Center console		10-5
X18024	CONNECTOR (6-PINS, BLACK)	LH side of engine compartment		07-5
X18025	CONNECTOR (4-PINS, BLACK)	LH side of engine compartment		10-2
X18029	CONNECTOR (4-PINS, BLACK)	LH footwell		09-1
X18031	CONNECTOR (3-PINS, BLACK)	RH front of wheel well above	16-1	10-6
X18055	CONNECTOR (12-PINS, BLACK)	Below center console	34-2	04-3
X18066	CONNECTOR (3-PINS, WHITE)	In RH rear side of luggage compartment	42-1	11-5
X18067	CONNECTOR (3-PINS, WHITE)	In LH forward side of luggage compartment behind trim panel	40-3	11-2
X18068	CONNECTOR (9-PINS, BLACK)	In RH side of luggage compartment		05-4
X18080	CONNECTOR (1-PINS, BLACK)	Underside of trunk lid TRUNK LID LIGHT, E33		
X18093	CONNECTOR (6-PINS, BLACK)	LH side of dash	31-1	07-3
X18094	CONNECTOR (3-PINS, BLUE)	Bottom of steering column		10-4

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18095	CONNECTOR (3-PINS, BLUE)	Bottom of steering column		10-4
X18096	CONNECTOR (2-PINS, BLACK)	Bottom of steering column		
X18097	CONNECTOR (2-PINS, BLACK)	Bottom of steering column		
X18098	CONNECTOR (5-PINS, BLACK)	Behind dashboard behind radio		08-4
X18099	CONNECTOR (12-PINS, BLACK)	Behind dashboard behind radio		13-2
X18124	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X18125	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X18126	CONNECTOR (17-PINS, BLACK)	Center console		02-4
X18131	CONNECTOR (12-PINS, WHITE)	Center of dash behind radio		03-5
X18135	CONNECTOR (4-PINS, WHITE)	In upper LH front seatback		09-3
X18138	CONNECTOR (4-PINS, WHITE)	In upper RH front seatback		09-3
X18145	CONNECTOR (2-PINS, BLACK)	Under rear of car	13-3	
X18146	CONNECTOR (2-PINS, BLACK)	Under RH rear of car	13-3	
X18165	CONNECTOR (3-PINS, BLACK)	Underside of RH front seat		10-5
X18166	CONNECTOR (2-PINS, BLACK)	In upper LH front door DRIVER'S DOOR PANEL LIGHT, E78		
X18167	CONNECTOR (2-PINS, BLACK)	In upper RH front door PASSENGER'S DOOR PANEL LIGHT, E79		
X18170	GROUND	Inside box on interior side of LH door sill	11-2	
X18170	GROUND	Inside box on interior side of LH door sill	29-2	
X18171	CONNECTOR (10-PINS, BLACK)	In upper LH front door DRIVER'S SIDE MEMORY MIRROR, Y9	38-2	05-1
X18172	CONNECTOR (10-PINS, BLACK)	In upper RH front door	38-2	05-1

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100 0	8500 0
X18173	CONNECTOR (6-PINS, BLACK)	In upper LH front door		07-2
X18177	CONNECTOR (2-PINS, GRAY)	In spare-wheel well	45-2	
X18178	CONNECTOR (4-PINS, BLACK)	Underside of LH front seat		09-6
X18179	CONNECTOR (4-PINS, BLACK)	Under RH front seat		09-6
X18180	CONNECTOR (3-PINS, NATURAL)	In RH rear side of luggage compartment (840Ci)	46-3	12-2
X18219	CONNECTOR (12-PINS, BLACK)	In RH rear side of luggage compartment	46-1	03-5
X18220	CONNECTOR (18-PINS, BLACK)	In RH rear side of luggage compartment	46-1	02-3
X18221	CONNECTOR (18-PINS, NATURAL)	In RH rear side of luggage compartment	46-1	02-3
X18222	CONNECTOR (12-PINS, NATURAL)	In RH rear side of luggage compartment	46-1	03-5
X18223	CONNECTOR (25-PINS, BLACK)	Under rear of car	13-2	01-5
X18224	CONNECTOR (9-PINS, BLACK)	In RH rear side of luggage compartment	45-3	05-4
X18225	CONNECTOR (9-PINS, BLACK)	In RH rear side of luggage compartment	45-3	05-4
X18229	CONNECTOR (4-PINS, YELLOW)	On steering column		09-1
X18230	CONNECTOR (4-PINS, BLACK)	In spare-wheel well	45-1	09-2
X18231	CONNECTOR (2-PINS, WHITE)	In spare-wheel well	45-1	
X18246	CONNECTOR (3-PINS, YELLOW)	Center of windshield header		12-4
X18319	CONNECTOR (18-PINS, BLACK)	Under LH front seat		02-3
X18320	CONNECTOR (26-PINS, WHITE)	Under LH front seat		01-2
X18321	CONNECTOR (10-PINS, BLACK)	Under LH front seat		05-2
X18322	CONNECTOR (26-PINS, BLACK)	Under LH front seat		01-2

carlagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18323	CONNECTOR (4-PINS, BLACK)	Under LH front seat		10-3
X18324	CONNECTOR (6-PINS, BLUE)	Under LH front seat		08-3
X18331	CONNECTOR (6-PINS, GREEN)	Center console	35-3	07-2
X18500	CONNECTOR (25-PINS, BLACK)	In LH forward side of luggage compartment	44-1	13-4
X18507	CONNECTOR (4-PINS, BLACK)	Center console		09-2
X18509	CONNECTOR (8-PINS, BLACK)	Center console		13-3
X18514	CONNECTOR (2-PINS, NATURAL)	Footwell, driver's side		
X18515	CONNECTOR (2-PINS, NATURAL)	Behind LH footwell speaker grille	32-3	
X18736	CONNECTOR (1-PINS, BLUE)	Inside box on interior side of LH door sill		
X18741	CONNECTOR (4-PINS, BLACK)	Center of dash		09-1
X18742	CONNECTOR (2-PINS, BLACK)	Under rear of car	13-2	
X18757	CONNECTOR (3-PINS, WHITE)	Left from LH rear seat behind trim panel	37-3	10-6
X18766	CONNECTOR (9-PINS, BLACK)	In auxiliary relay box LH front of engine compartment		05-4
X18767	CONNECTOR (9-PINS, BLACK)	In auxiliary relay box LH front of engine compartment		05-4
X19529	CONNECTOR (8-PINS, BLACK)	In lower RH front door		06-1
X19535	CONNECTOR (1-PINS, (---))	In LH auxiliary relay box, engine compartment	22-1	
Y1	ABS HYDRAULIC UNIT	Front LH side of engine compartment under concealing headlight	24-3	
Y3	AIR CONDITIONING COMPRESSOR (IHKA)	Front RH side of engine compartment under air filter		
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment	19-2	
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		

carmagn.com

COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		
Y9	DRIVER'S SIDE MEMORY MIRROR	In upper LH front door		
Y10	PASSENGER'S SIDE MEMORY MIRROR	In upper RH front door		
Y16	PRESSURE SENSOR/PLUNGER	LH side of engine compartment		
Y19	SHIFT-LOCK	Near gearshift lever		
Y1w	ABS HYDRAULIC UNIT	Front LH side of engine compartment under concealing headlight		
Y401z	LEFT FRONT EDC VALVES	Behind LH front wheel		
Y402z	RIGHT FRONT EDC VALVES	Behind RH front wheel		15-2
Y403z	LEFT REAR EDC VALVES	Behind LH rear wheel		14-2
Y404z	RIGHT REAR EDC VALVES	Behind RH rear wheel		
Y6101	CYL. 1 FUEL INJECTION VALVE	RH cylinder head		26-2
Y6101	CYL. 1 FUEL INJECTION VALVE	RH cylinder head (840Ci)		
Y6102	CYL. 2 FUEL INJECTION VALVE	RH cylinder head		26-2
Y6102	CYL. 2 FUEL INJECTION VALVE	RH cylinder head (840Ci)		
Y6103	CYL. 3 FUEL INJECTION VALVE	RH cylinder head		26-2
Y6103	CYL. 3 FUEL INJECTION VALVE	RH cylinder head (840Ci)		
Y6104	CYL. 4 FUEL INJECTION VALVE	RH cylinder head		26-2
Y6104	CYL. 4 FUEL INJECTION VALVE	RH cylinder head (840Ci)		
Y6105	CYL. 5 FUEL INJECTION VALVE	RH cylinder head		26-2
Y6105	CYL. 5 FUEL INJECTION VALVE	LH cylinder head (840Ci)		

cardiagn.com

COMPONENT LOCATION CHART

COMPONENT

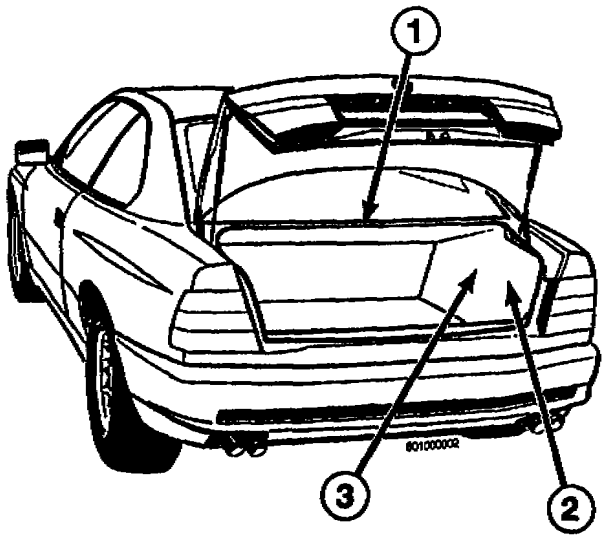
PAGE – FIGURE
7100.0 8500.0

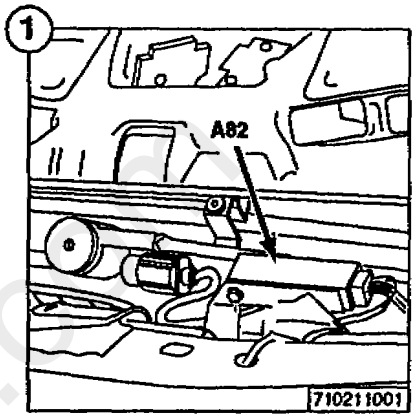
Y6106 . CYL. 6 FUEL INJECTION VALVE ..... RH cylinder head 26-2
Y6106 . CYL. 6 FUEL INJECTION VALVE ..... LH cylinder head (840Ci)
Y6107 . CYL. 7 FUEL INJECTION VALVE ..... LH cylinder head 26-1
Y6107 . CYL. 7 FUEL INJECTION VALVE ..... LH cylinder head (840Ci)
Y6108 . CYL. 8 FUEL INJECTION VALVE ..... LH cylinder head 26-1
Y6108 . CYL. 8 FUEL INJECTION VALVE ..... LH cylinder head (840Ci)
Y6109 . CYL. 9 FUEL INJECTION VALVE ..... LH cylinder head 26-1
Y6110 . CYL. 10 FUEL INJECTION VALVE ..... LH cylinder head 26-1
Y6111 . CYL. 11 FUEL INJECTION VALVE ..... LH cylinder head 26-1
Y6112 . CYL. 12 FUEL INJECTION VALVE ..... LH cylinder head 26-1
Y6120 . EVAPORATIVE EMISSION VALVE ..... Front of engine (840Ci) 21-1
Y6121 . CYL. 1-6 EVAPORATIVE EMISSION VALVE ... Front RH side of engine compartment 25-2
Y6122 . CYL. 7-12 EVAPORATIVE EMISSION VALVE .. Front RH side of engine compartment 25-2
Y6130 . IDLE SPEED CONTROL VALVE ..... Front of engine (840Ci) 20-3
Y8505 . TRANSMISSION VALVE UNIT ..... Under center of car

carmagn.com

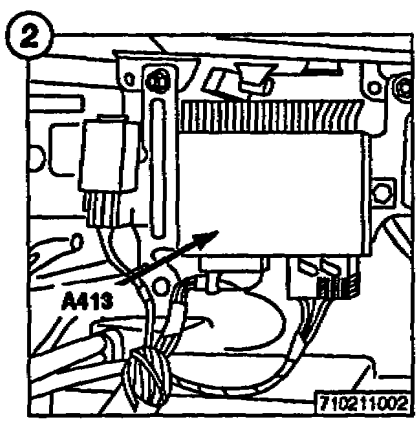
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

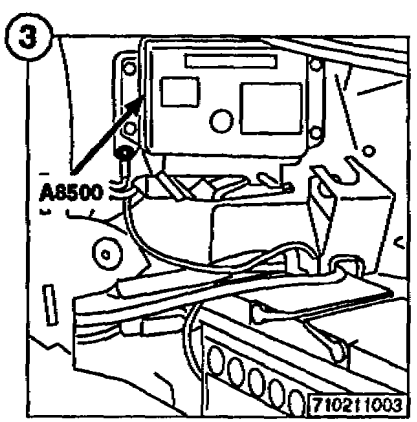




A82
SUN BLIND
CONTROL MODULE



A413
ELECTRONIC
SHOCK
ABSORBER
CONTROL
MODULE (EDC)

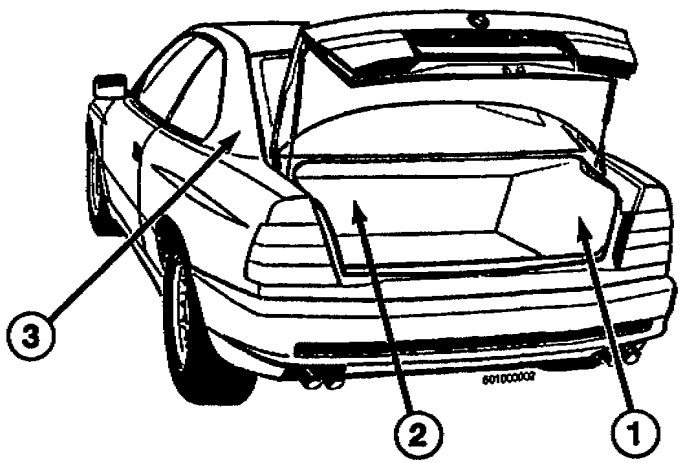


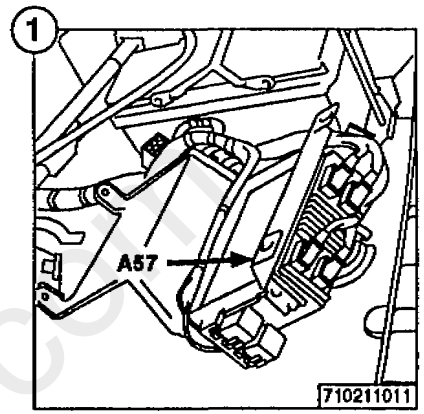
A8500
TRANSMISSION
CONTROL MODULE
(EGS)

cardiagn.com

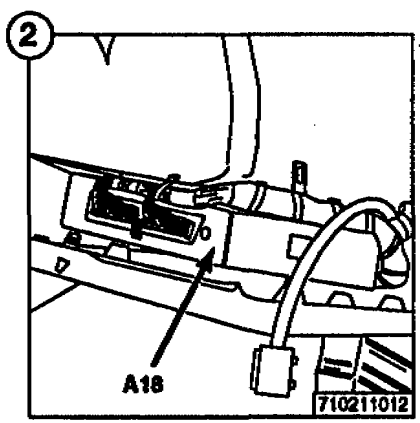
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

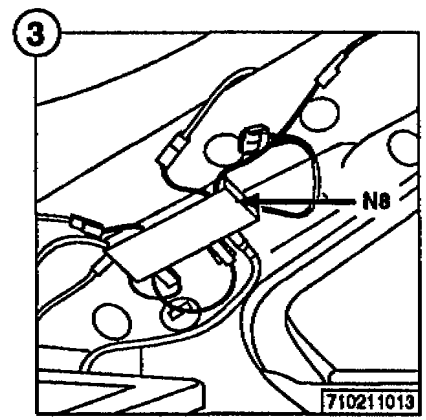




1 A57
AHK
CONTROL MODULE



2 A18
HIFI AMPLIFIER

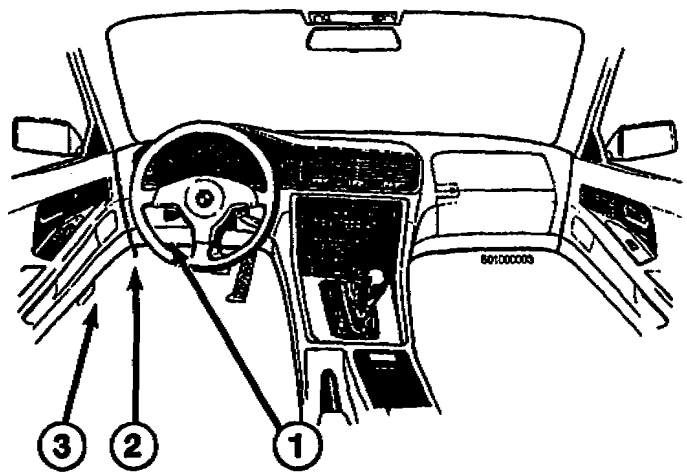


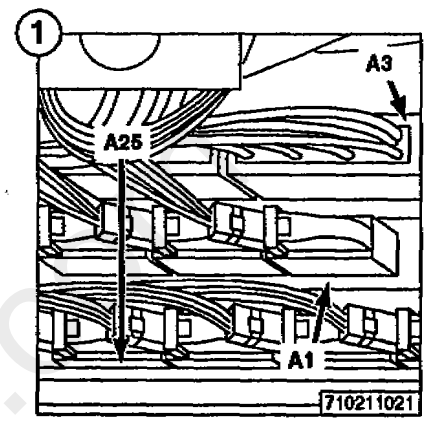
3 N8
ANTENNA
AMPLIFIER
AM/FM

cardiagn.com

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

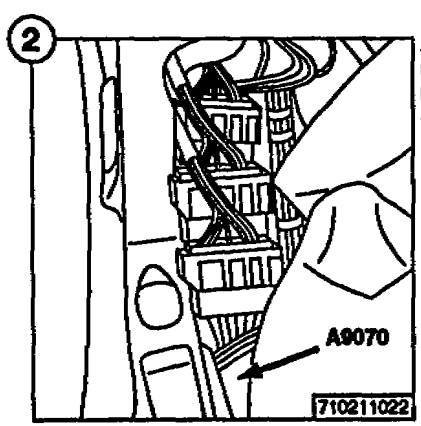




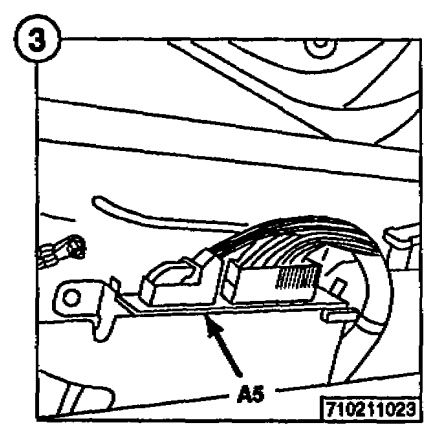
A1
GENERAL MODULE

A3
LAMP CONTROL
MODULE

A25
BODY
ELECTRONICS
MODULE



A9070
SLIP CONTROL
MODULE
(ABS/ASC+T)

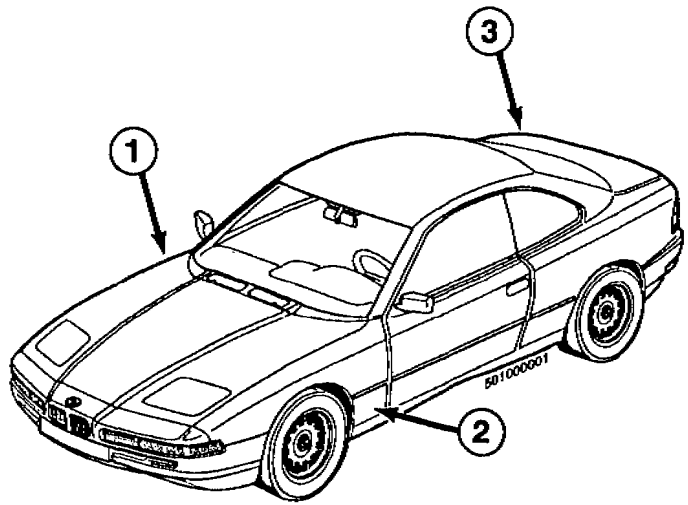


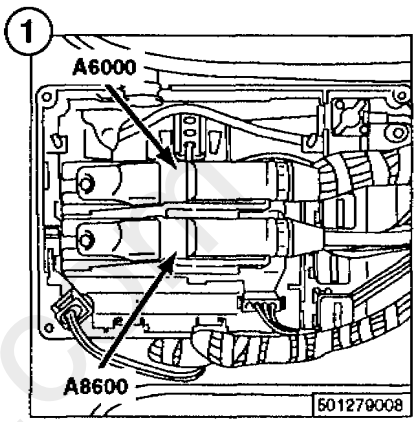
A5
RELAY MODULE

cardiagn.com

COMPONENT LOCATION VIEWS

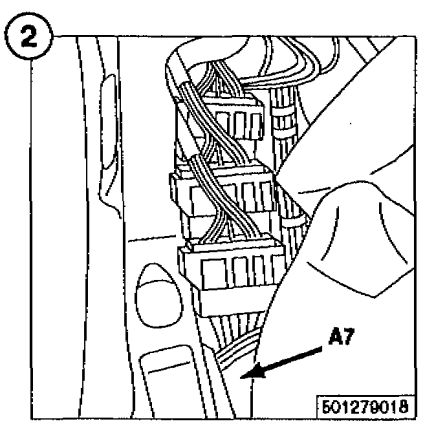
ELECTRICAL CONTROL MODULE LOCATIONS



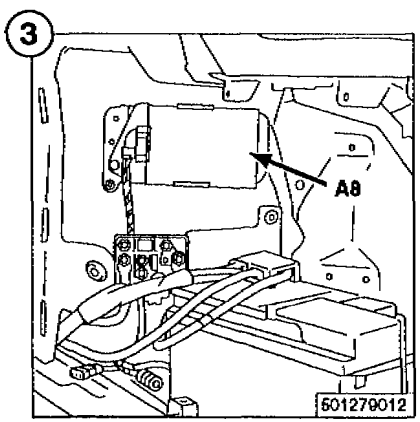


A6000
ENGINE CONTROL
MODULE (DME)

A8600
TRANSMISSION
CONTROL MODULE
(AGS)



A7
SLIP CONTROL
MODULE (ABS)



A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

X22
X6403
X18180

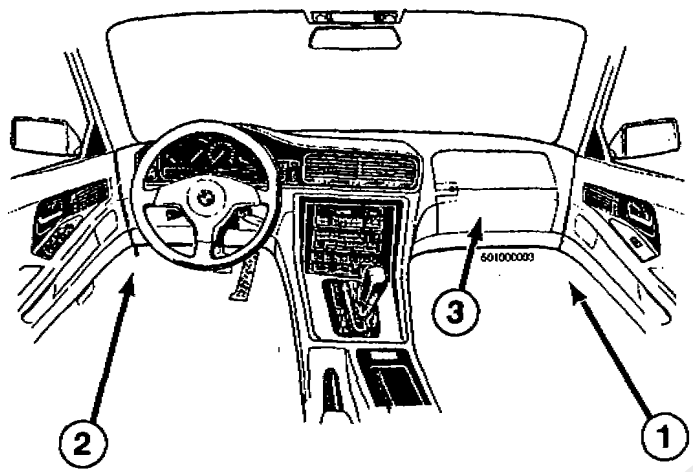
F97
FUSIBLE LINK

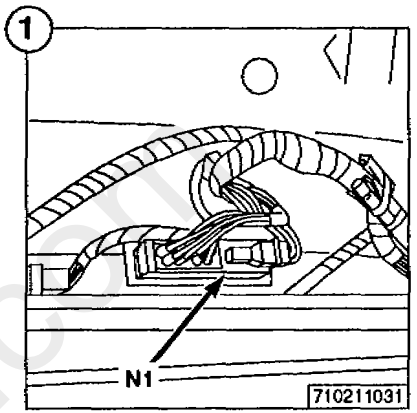
F99
FUSIBLE
LINK (50A)

cardiagn.com

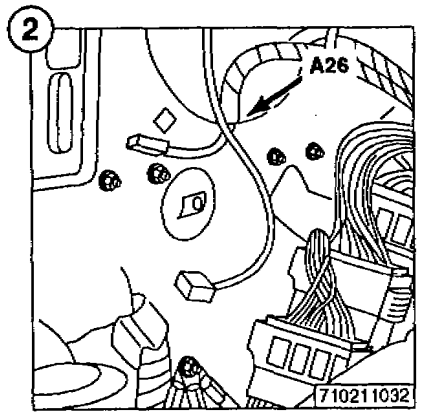
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

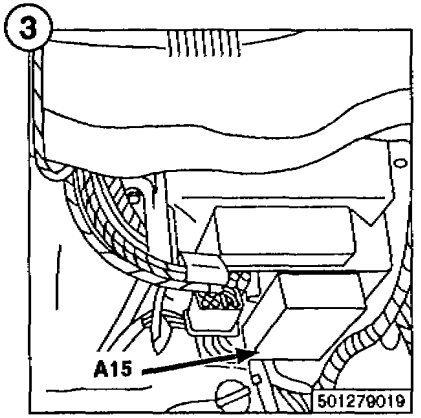




1 N1
ANTI-THEFT
CONTROL MODULE
(DWA)



2 A26
LOCK-SENSOR
CONTROL MODULE

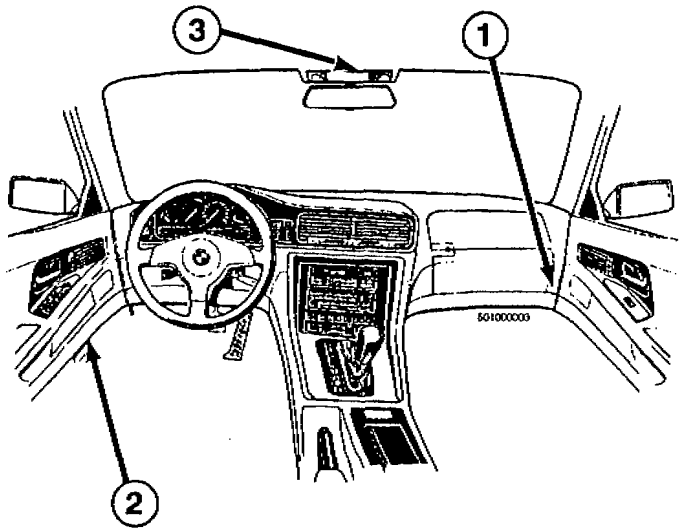


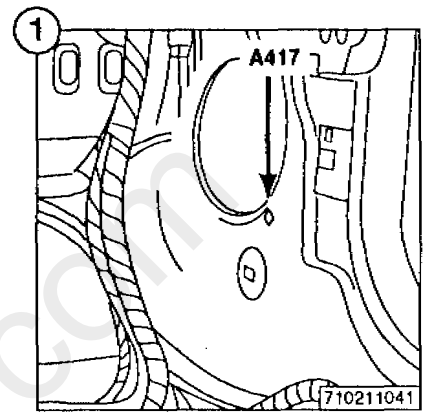
3 A15
PARK HEATING/
VENTILATION
RELAY BOX

cardiagn.com

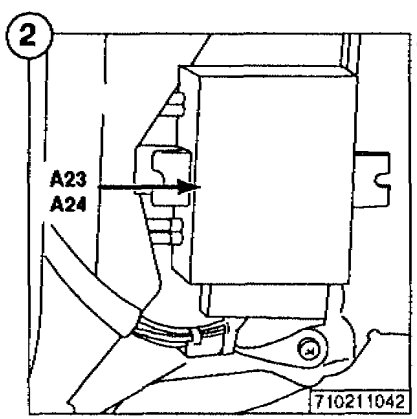
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS





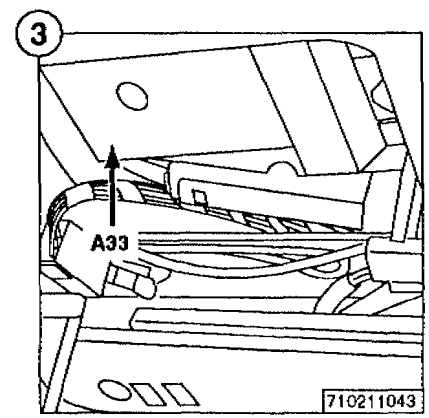
A417
AUTOMATIC AIR
RECIRCULATION
CONTROL MODULE



RH SIMILAR

A23
DRIVER'S
DOOR MODULE

A24
PASSENGER'S
DOOR MODULE

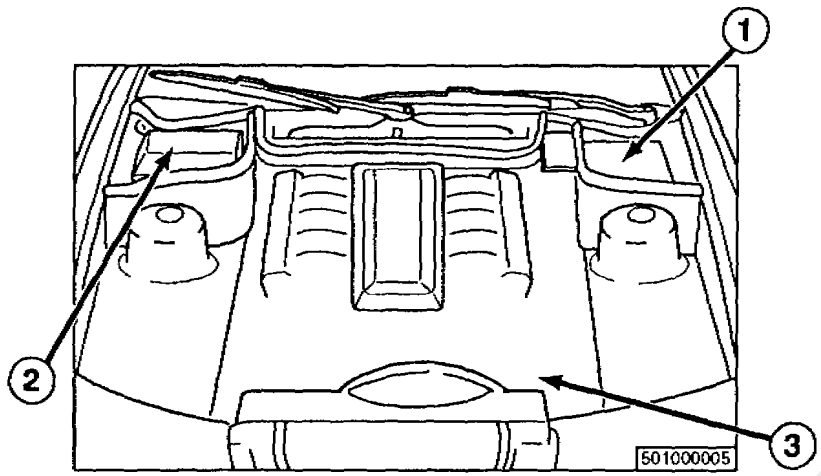


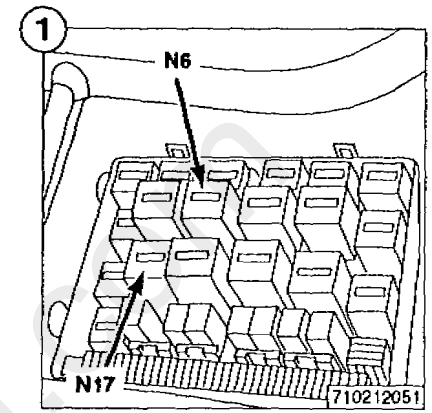
A33
SUNROOF MODULE

cardiagn.com

COMPONENT LOCATION VIEWS

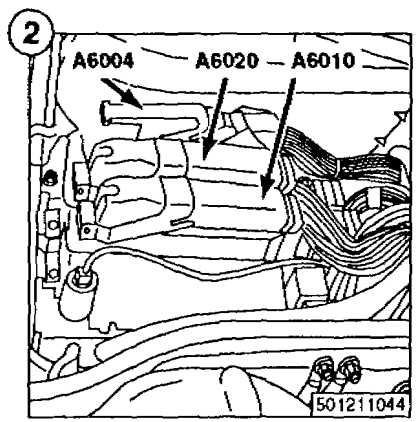
ELECTRICAL CONTROL MODULE LOCATIONS





N6
HEADLIGHT/
FOGLIGHT
CLEANING
MODULE (SRA)

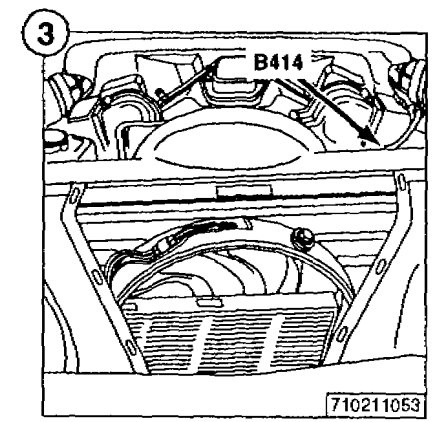
N17
CRASH CONTROL
MODULE



A6004
THROTTLE
CONTROL MODULE
(EML)

A6010
CYL 1 6
ENGINE CONTROL
MODULE (DME)

A6020
CYL 7-12
ENGINE CONTROL
MODULE (DME)

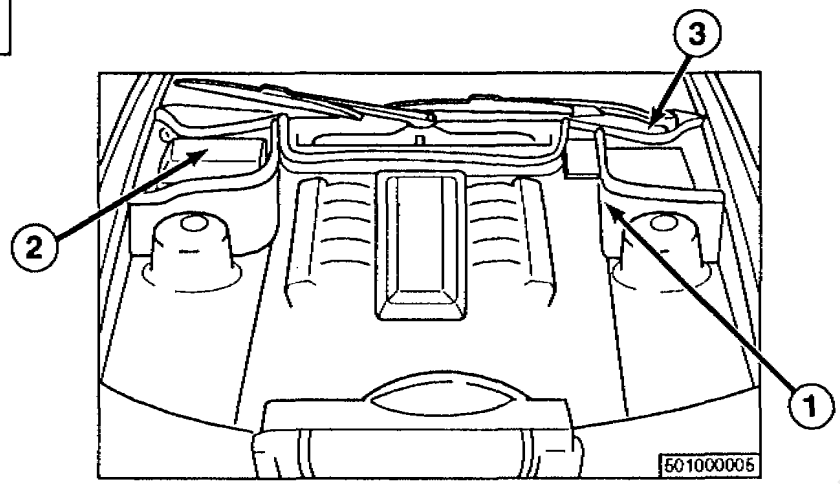


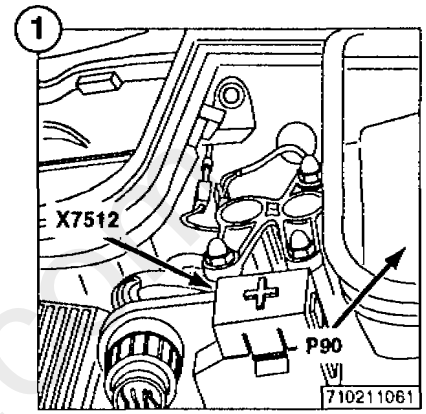
B414
AUTOMATIC AIR
RECIRCULATION
SENSOR

cardiagn

COMPONENT LOCATION VIEWS

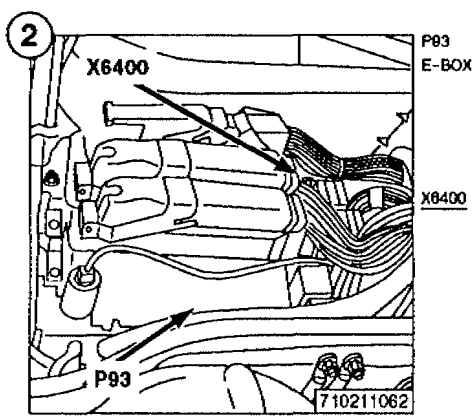
B(+)





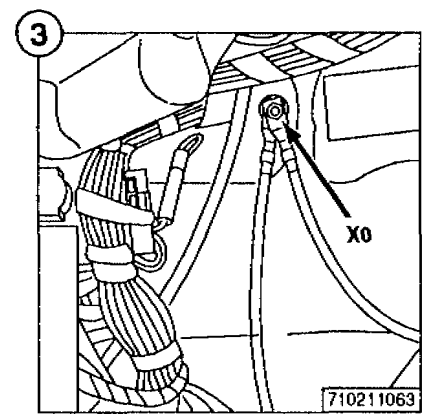
P90
FRONT POWER
DISTRIBUTION
BOX

X7512



P93
E-BOX

X6400

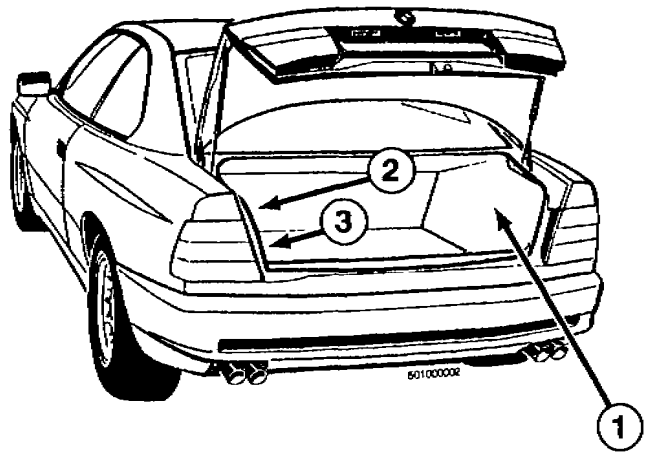


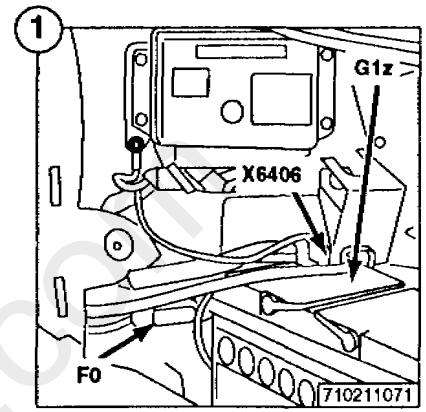
X0

cardiagn.com

COMPONENT LOCATION VIEWS

B(+)

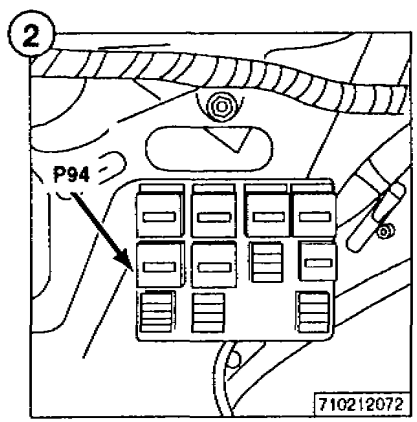




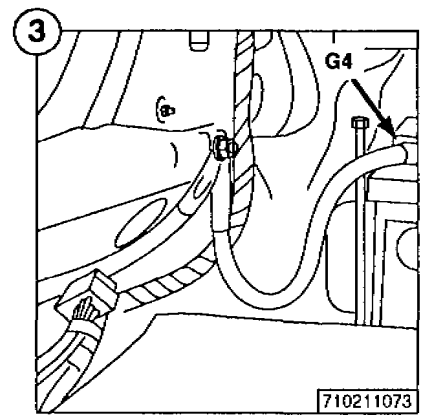
G1z
RIGHT
BATTERY I

F0

X6406



P94
REAR POWER
DISTRIBUTION
BOX

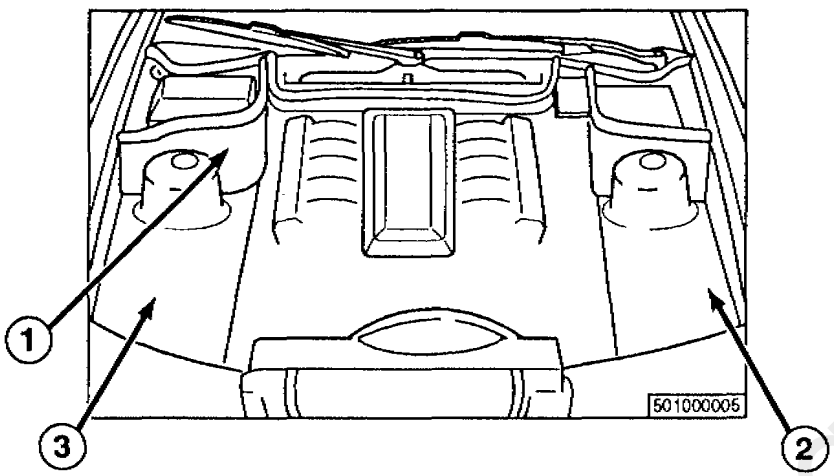


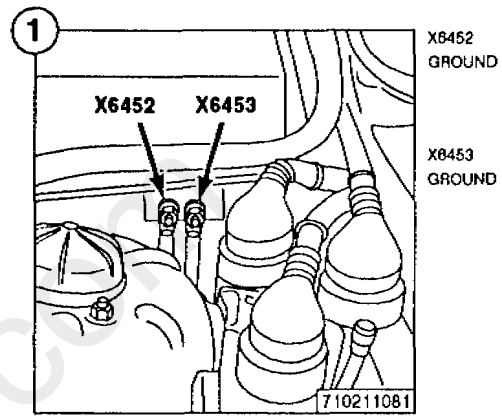
G4
LEFT
BATTERY II

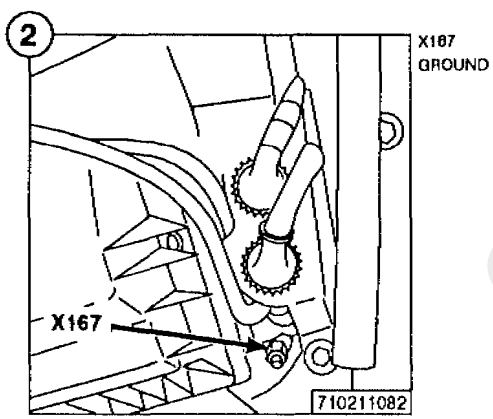
cardiagn.com

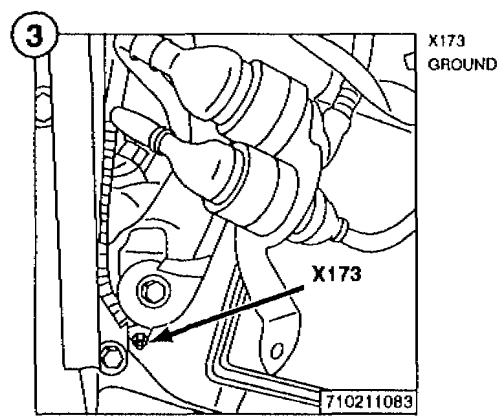
COMPONENT LOCATION VIEWS

B(-)





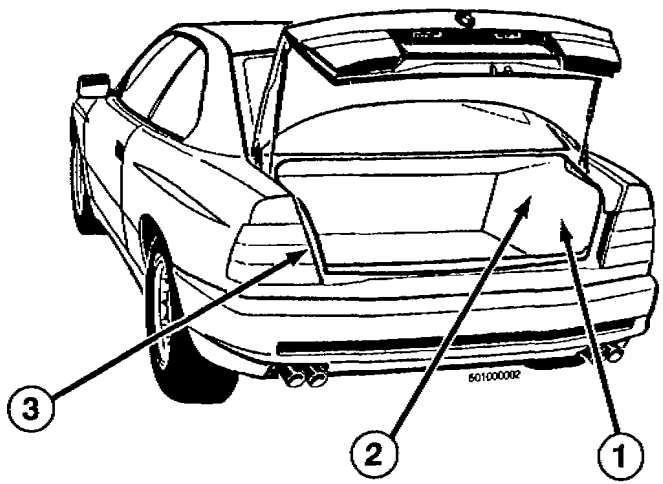


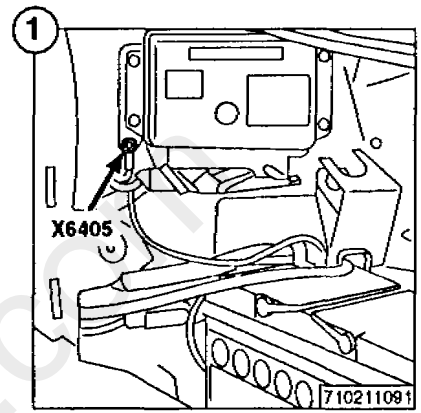


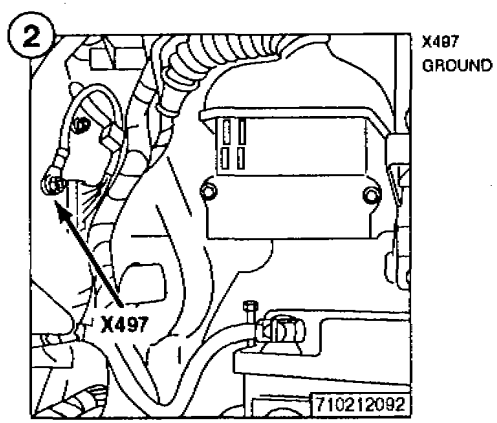
cardiagn.com

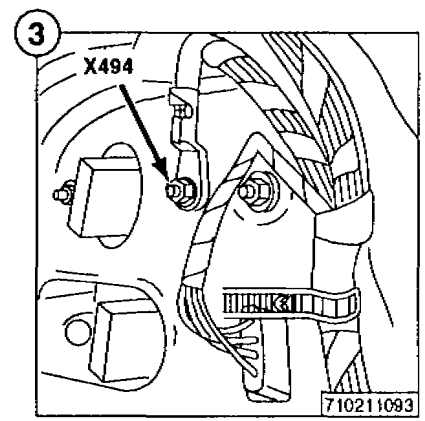
COMPONENT LOCATION VIEWS

B(-)





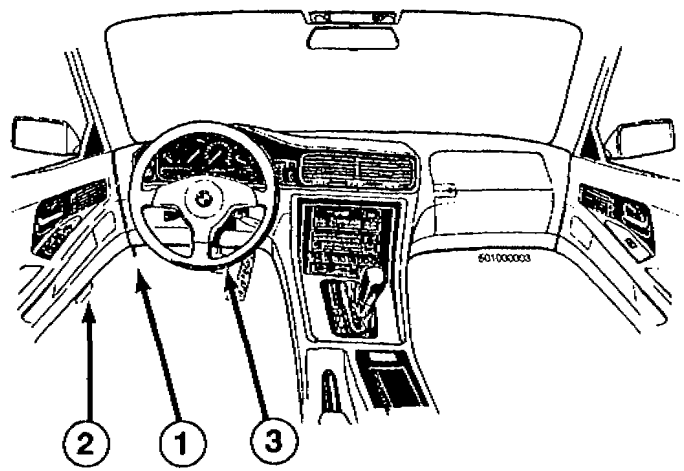


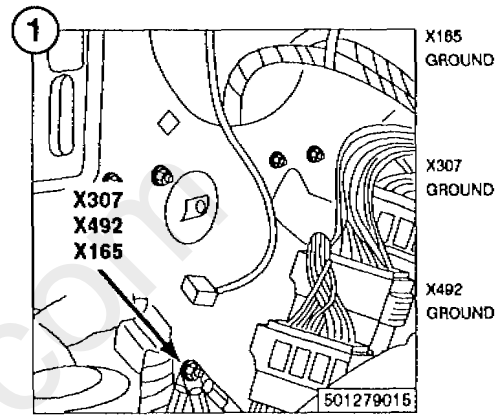


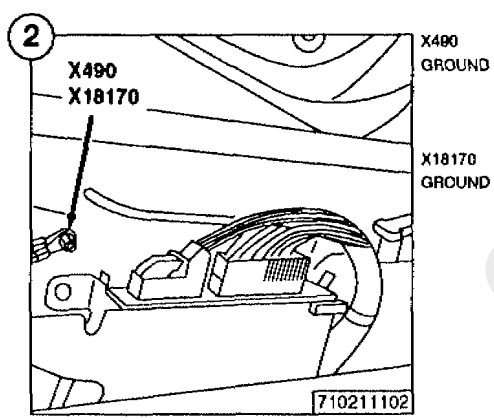
cardiagn.com

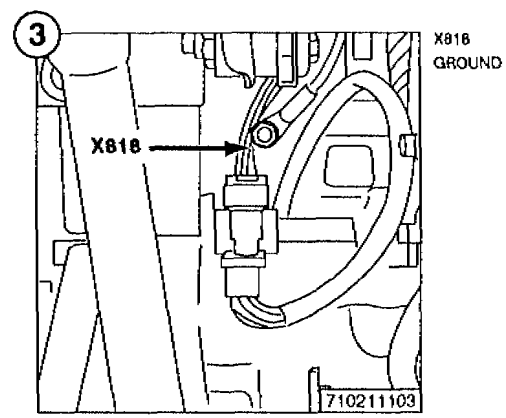
COMPONENT LOCATION VIEWS

B(-)



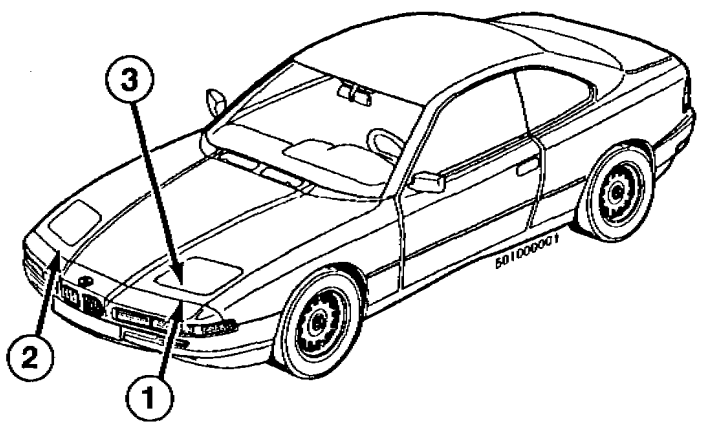


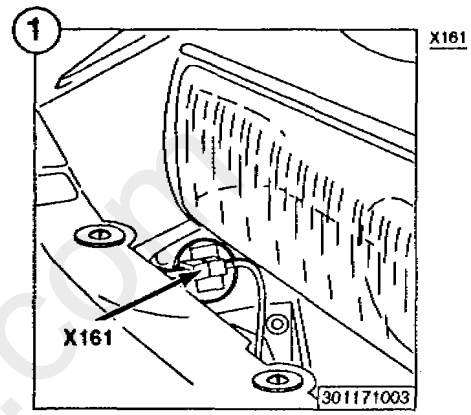


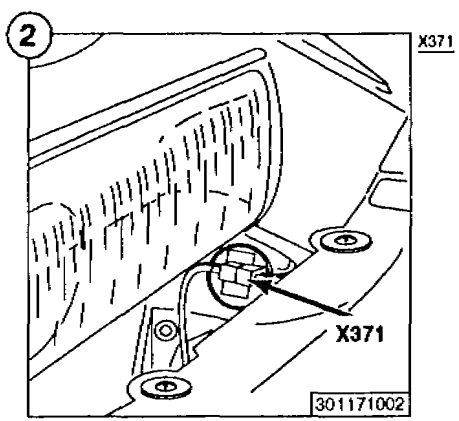


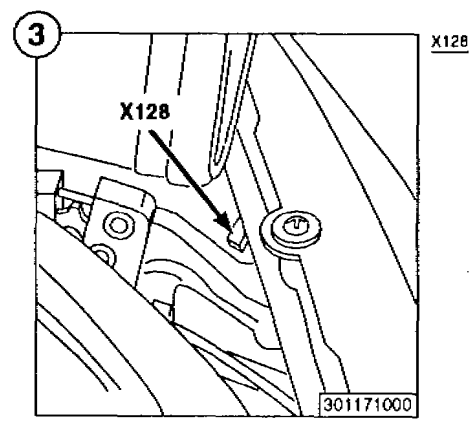
cardiagn.com

COMPONENT LOCATION VIEWS



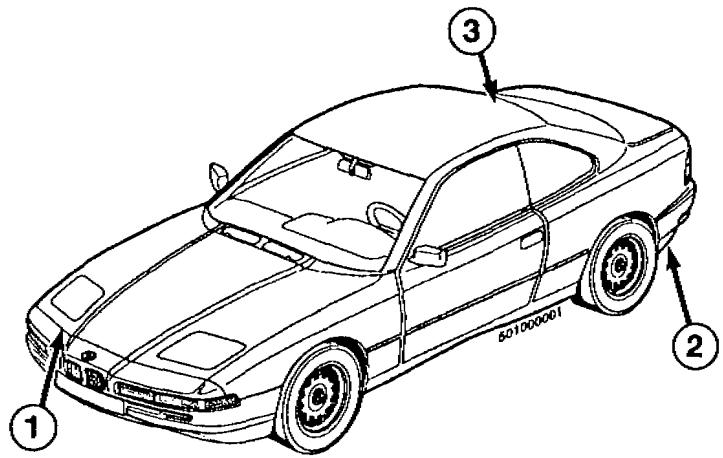


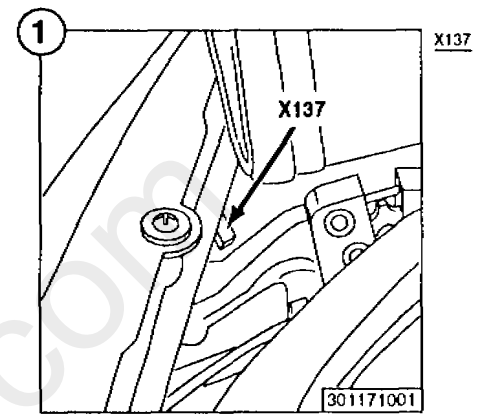


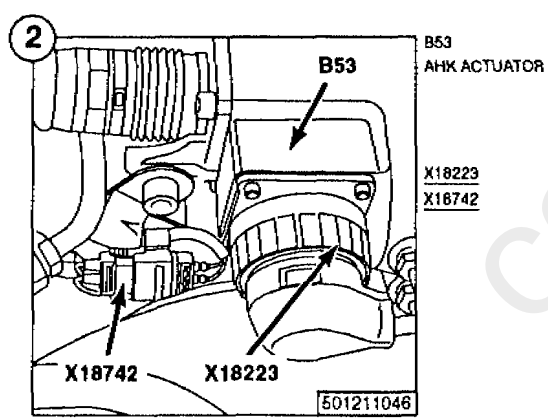


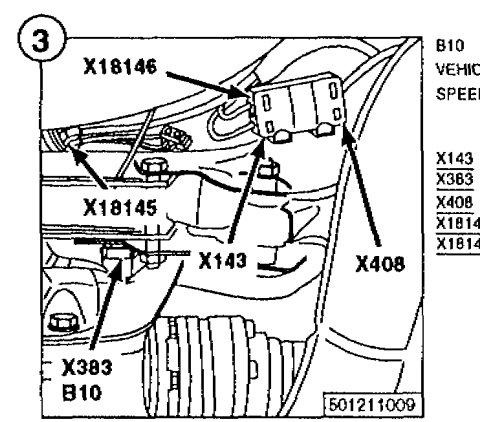
cardiagn.com

COMPONENT LOCATION VIEWS



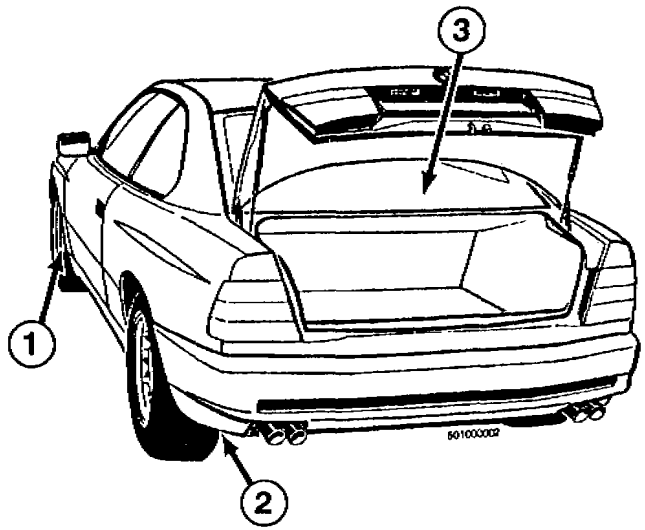


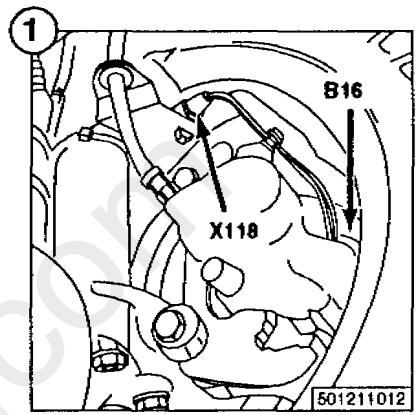




cardiagn.com

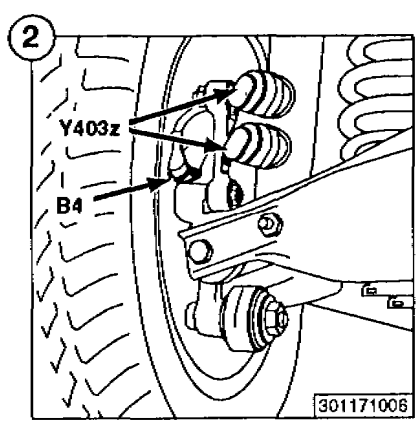
COMPONENT LOCATION VIEWS





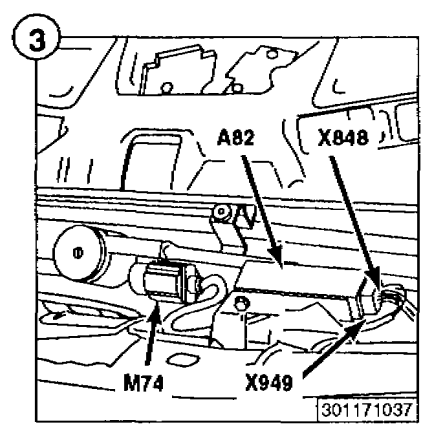
B16
LEFT FRONT
BRAKE PAD
SENSOR

X118



B4
LEFT REAR
SPEED SENSOR
- ABS

Y403z
LEFT REAR
EDC VALVES



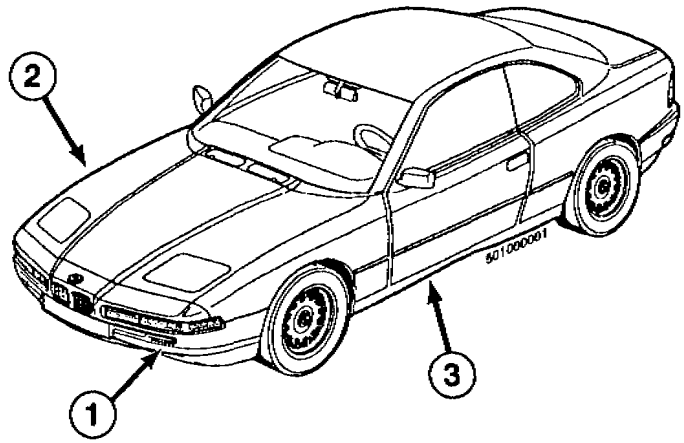
A82
SUN BLIND
CONTROL MODULE

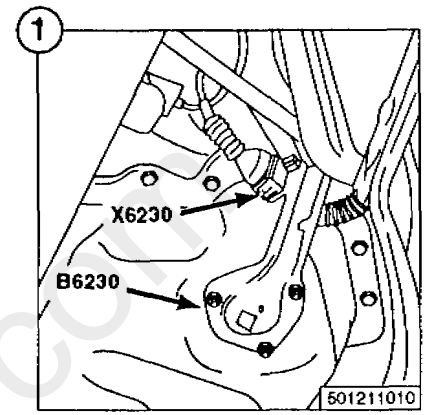
M74
SUN BLIND MOTOR

X848
X949

cardiagn.com

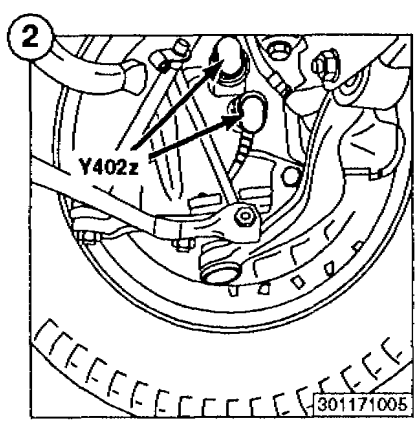
COMPONENT LOCATION VIEWS



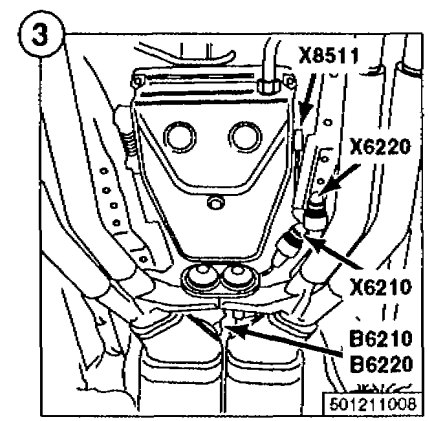


B6230
OIL LEVEL
SENSOR

X6230



Y402z
RIGHT FRONT
EDC VALVES



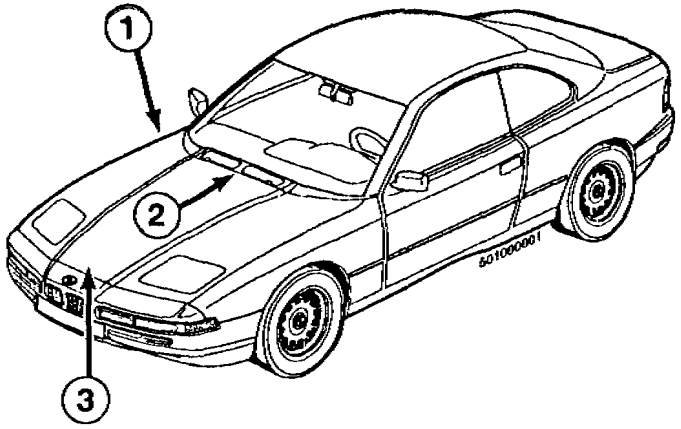
B6210
CYL. 1-6 HEATED
OXYGEN SENSOR

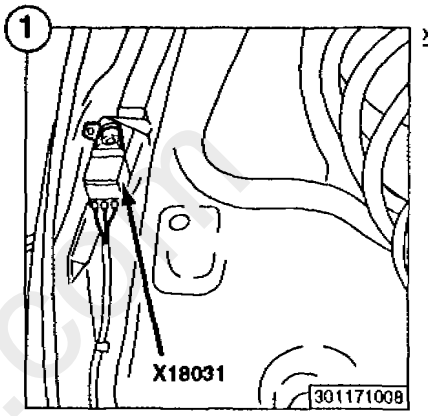
B6220
CYL. 7-12
HEATED OXYGEN
SENSOR

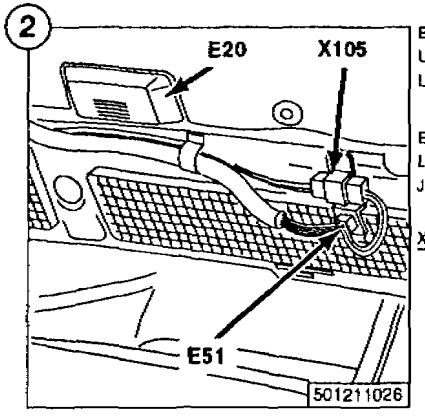
X6210
X6220
X8511

cardiagn.com

COMPONENT LOCATION VIEWS



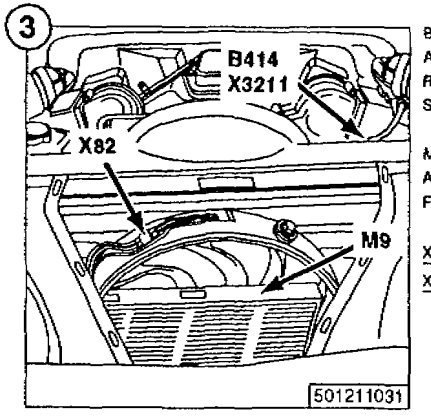




E20
UNDERHOOD
LIGHT

E51
LEFT WASHER
JET HEATER

X105



B414
AUTOMATIC AIR
RECIRCULATION
SENSOR

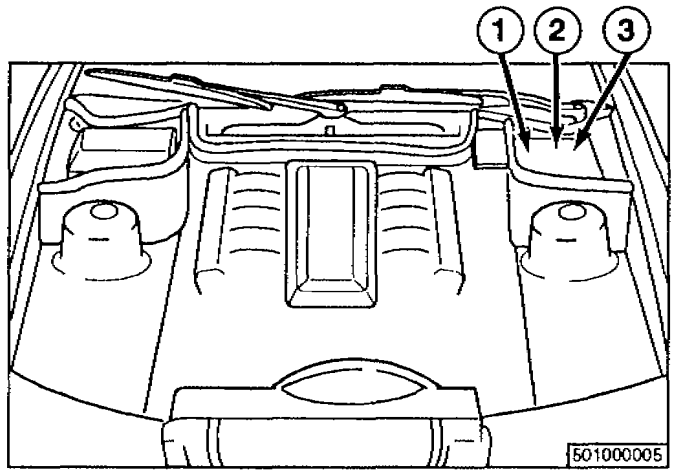
M9
AUXILIARY
FAN MOTOR

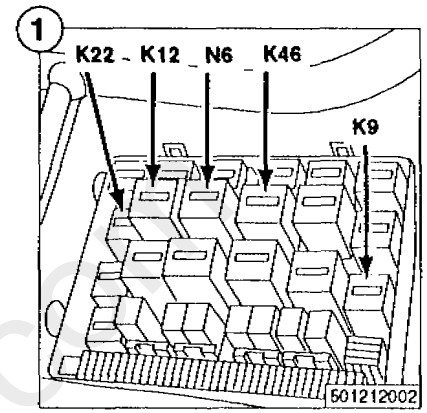
X82

X3211

cardiagn.com

COMPONENT LOCATION VIEWS





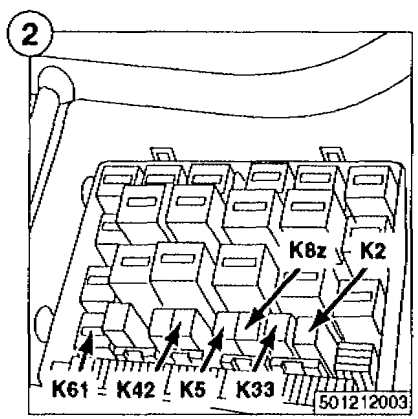
K9
UNLOADER RELAY, TERMINAL 15

K12
WIPER PRESSURE CONTROL (ADV) RELAY

K22
HIGH SPEED RELAY

K46
HIGH BEAM LIGHT RELAY

N6
HEADLIGHT/ FOGLIGHT CLEANING MODULE (SRA)



K2
HORN RELAY

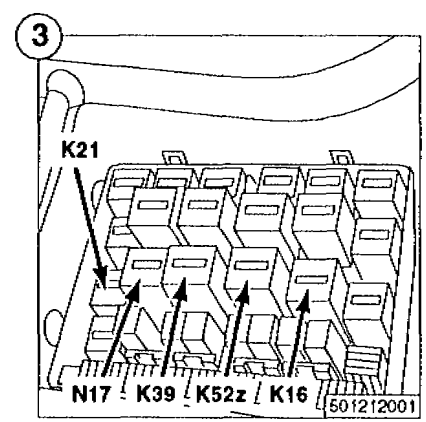
K5
WASHER PUMP RELAY

K8z
AUXILIARY WATER PUMP RELAY

K33
AIR CONDITIONING RELAY

K42
INTENSIVE WASH RELAY

K61
UNLOADER RELAY, TERMINAL 61



K16
HAZARD FLASHER RELAY

K21
NORMAL SPEED RELAY

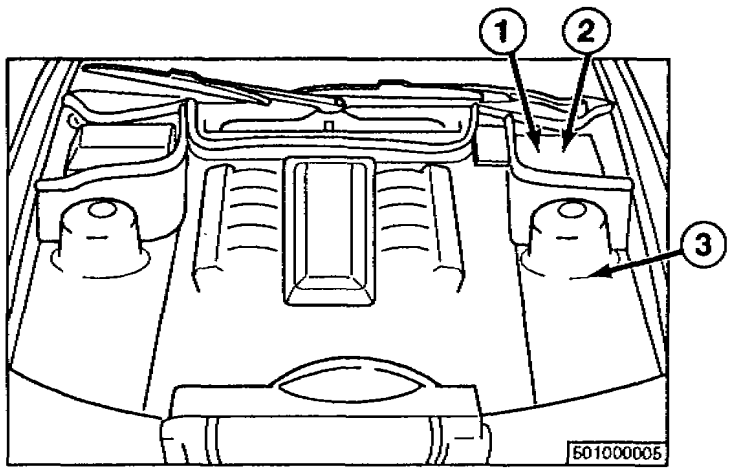
K39
CONCEALING HEADLIGHTS RELAY

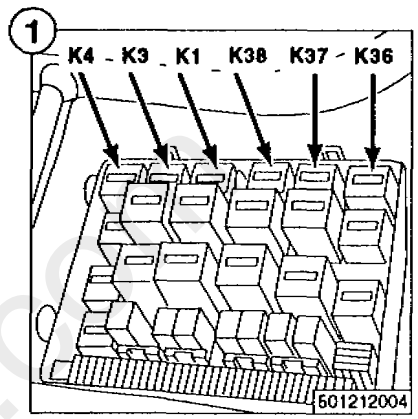
K52z
FLASHER LIGHT RELAY

N17
CRASH CONTROL MODULE

cardiagn.com

COMPONENT LOCATION VIEWS





K1
STARTER RELAY

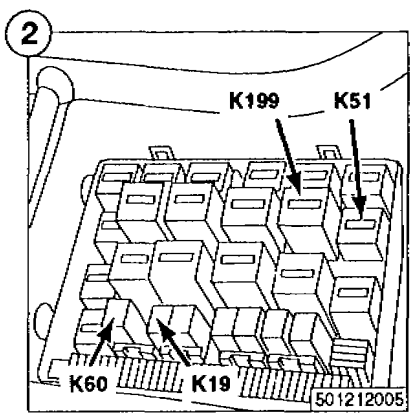
K3
UNLOADER RELAY, TERMINAL R

K4
BLOWER RELAY

K36
WIPER RELAY I

K37
WIPER RELAY II

K38
WIPER RELAY III

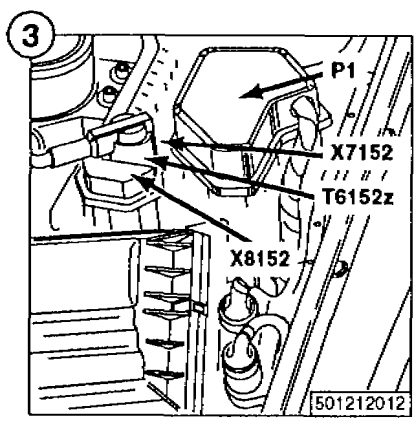


K19
COMPRESSOR CONTROL RELAY

K51
JUMPER PLUG FOR HORN/ TELEPHONE

K60
COMPRESSOR CUT-OFF RELAY

K199
SERVOTRONIC RELAY



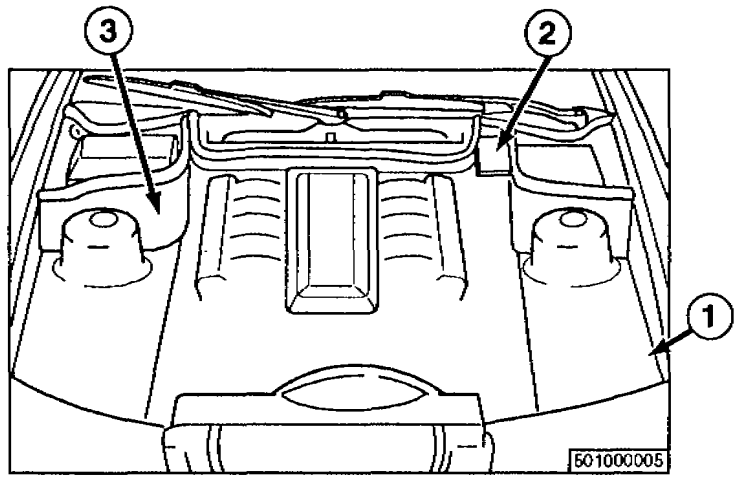
P1
AUXILIARY RELAY BOX – ENGINE COMPARTMENT

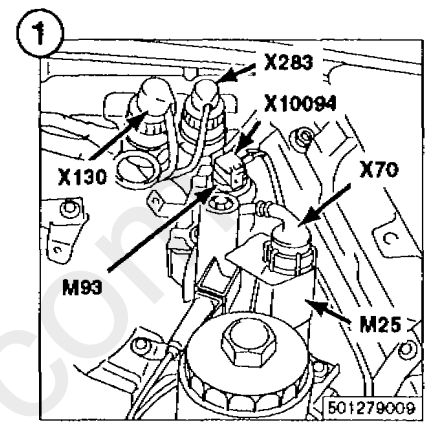
T6152z
CYL. 7–12 IGNITION COIL

X7152
X8152

cardiagn.com

COMPONENT LOCATION VIEWS

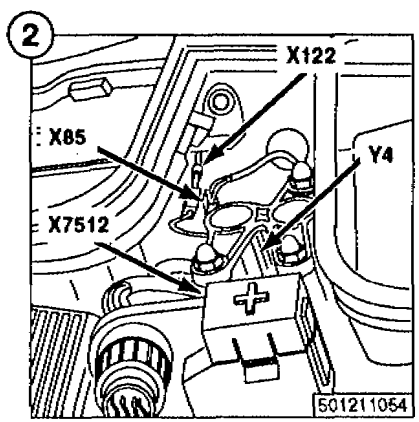




M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

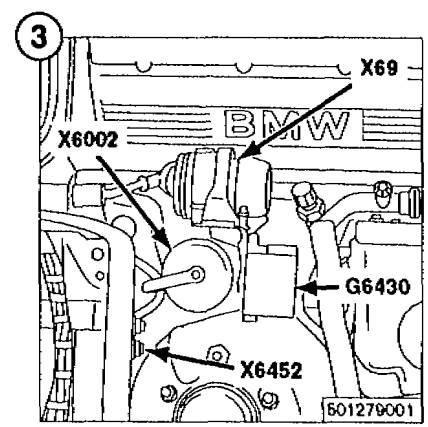
M93
AUXILIARY
THROTTLE
POSITION MOTOR
(ADS)

X70
X130
X283
X10094



Y4
WATER VALVE
ASSEMBLY

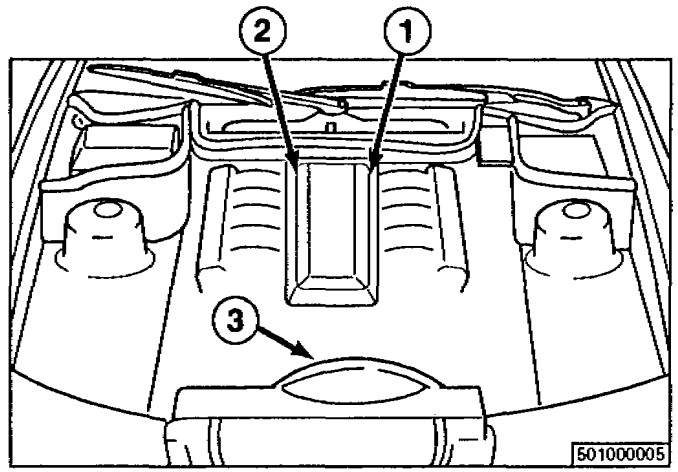
X85
X122
X7512

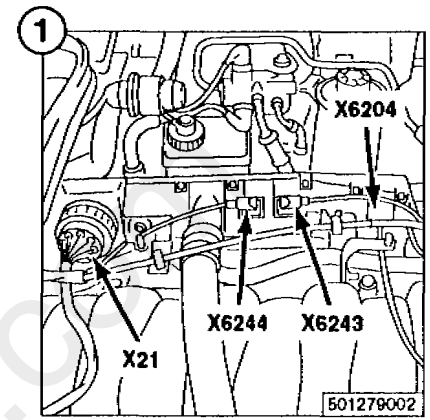


G6430
B+
JUMP START
JUNCTION POINT

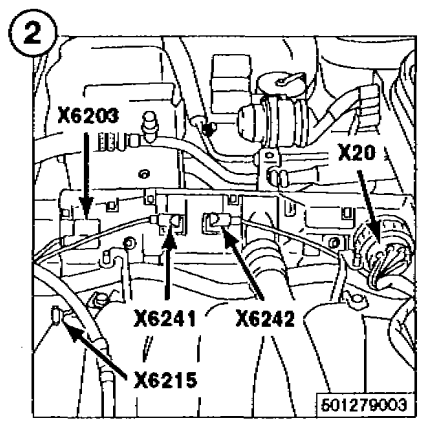
X69
X6002
X6452

cardiagn.com

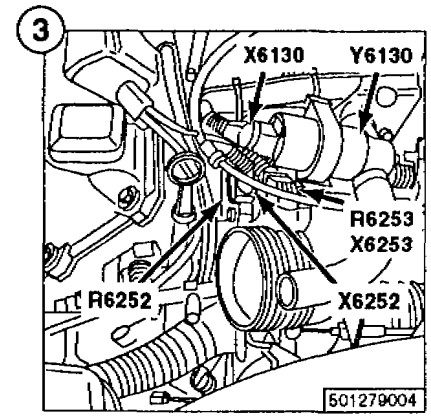




X21
X6204
X6243
X6244



X20
X6203
X6215
X6241
X6242



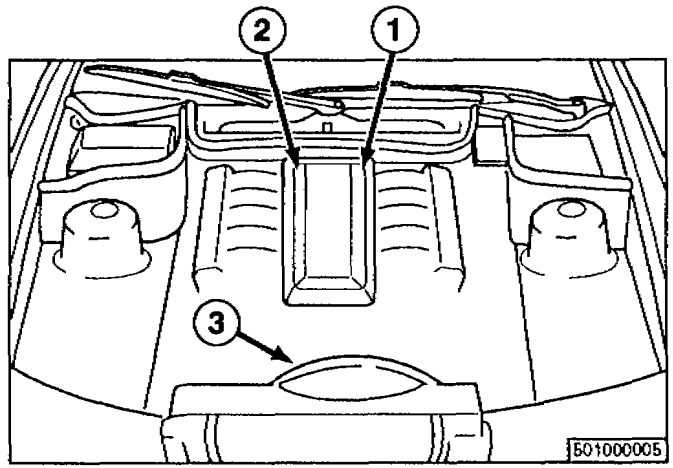
R6252 THROTTLE POSITION SENSOR — X6130, X6252, X5253

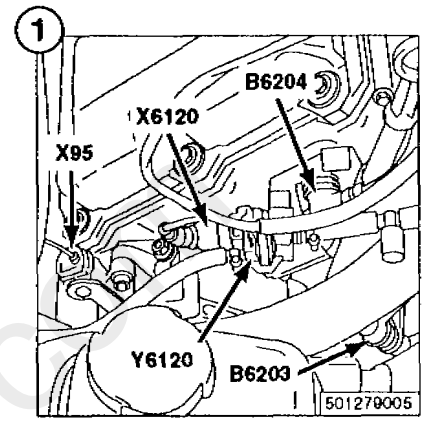
R6253 AUXILIARY THROTTLE POSITION SENSOR

Y6130 IDLE SPEED CONTROL VALVE

cardiagn.com

COMPONENT LOCATION VIEWS

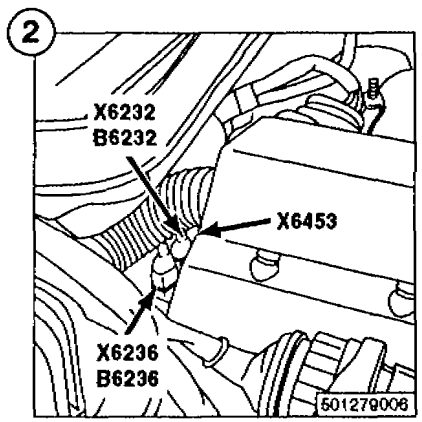




B6203 CRANKSHAFT POSITION/RPM SENSOR — X95, X6120

B6204 CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION)

Y6120 EVAPORATIVE EMISSION VALVE



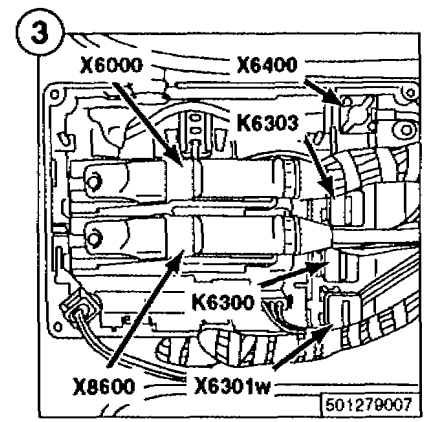
B6232 ENGINE COOLANT TEMPERATURE SENSOR

B6236 ENGINE COOLANT TEMPERATURE SENSOR

X6453 GROUND

X6232

X6236



K6300 ENGINE CONTROL MODULE RELAY — X8600

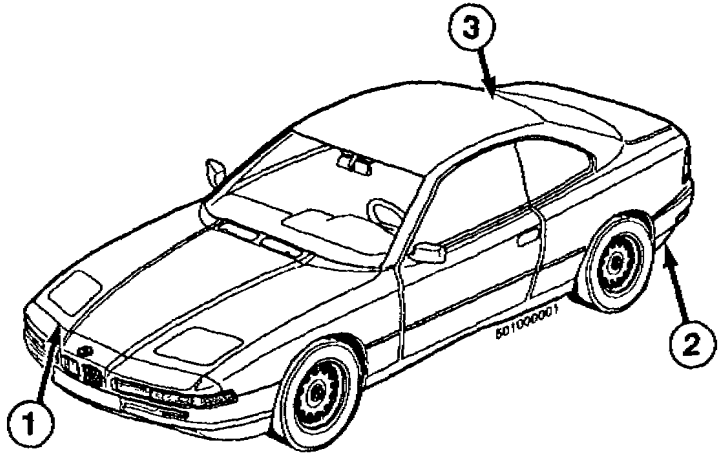
X6400 B+ JUNCTION POINT

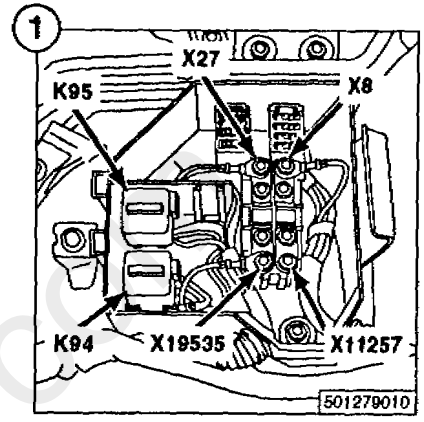
K6301w FUEL PUMP RELAY

K6303 OXYGEN SENSOR RELAY

cardiagn.com

COMPONENT LOCATION VIEWS

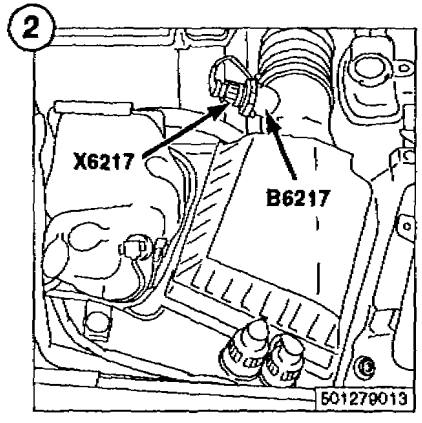




K94
ABS PUMP MOTOR
RELAY

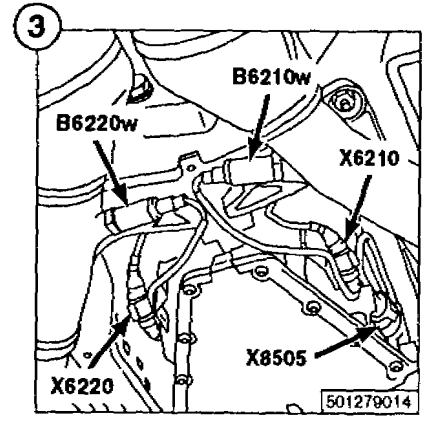
K95
VALVE RELAY
(ABS/ASC)

X8
X27
X11257
X19535



B6217
HOT FILM AIR
MASS METER

X6217



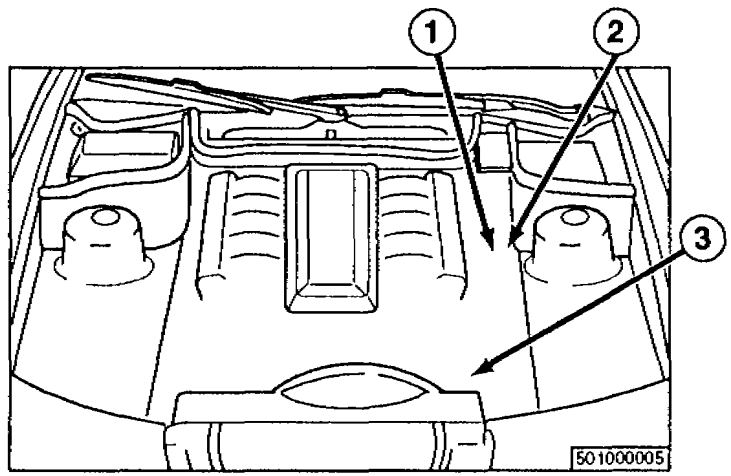
B6210w
CYL 1 4 HEATED
OXYGEN SENSOR

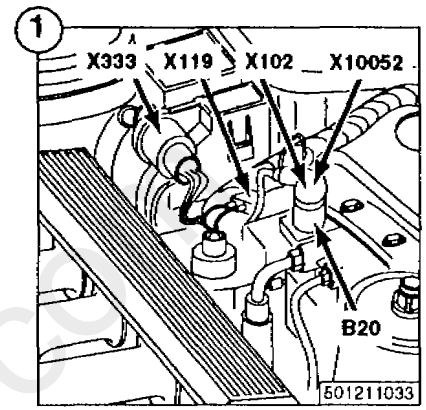
B6220w
CYL 5 8
HEATED OXYGEN
SENSOR

X6210
X6220
X8505

cardiagn.com

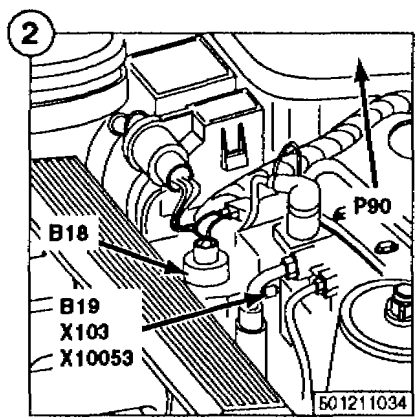
COMPONENT LOCATION VIEWS





B20
BRAKE
PRESSURE
SWITCH

X102
X119
X333
X10052

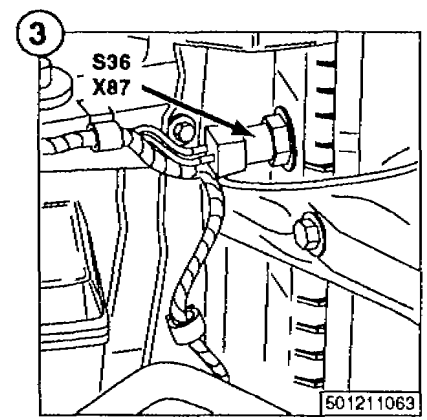


B18
BRAKE FLUID
LEVEL SWITCH

B19
BRAKE
PRESSURE
REGULATING
SWITCH

P90
FRONT POWER
DISTRIBUTION
BOX

X103
X10053

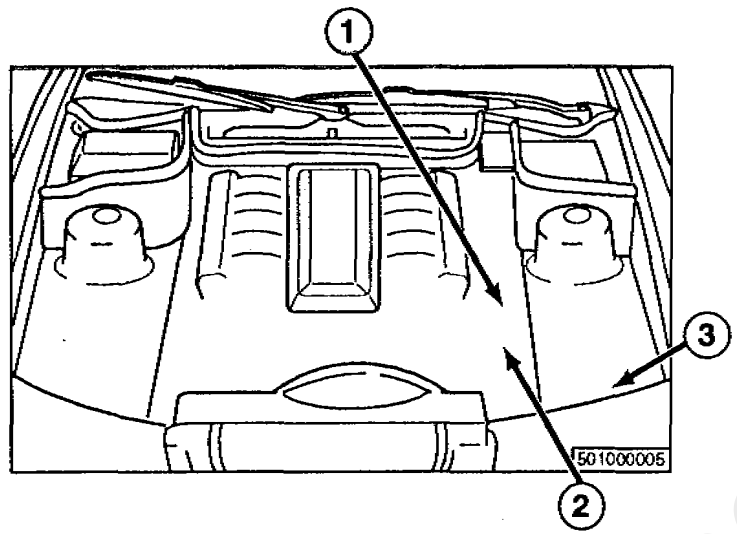


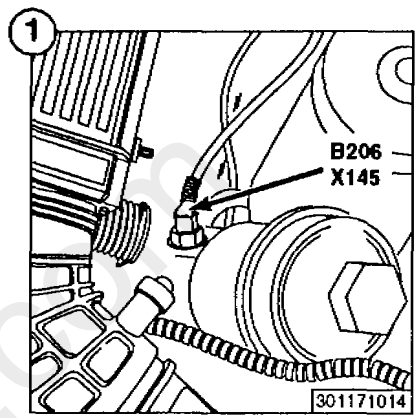
S36
TEMPERATURE
SWITCH

X67

cardiagn.com

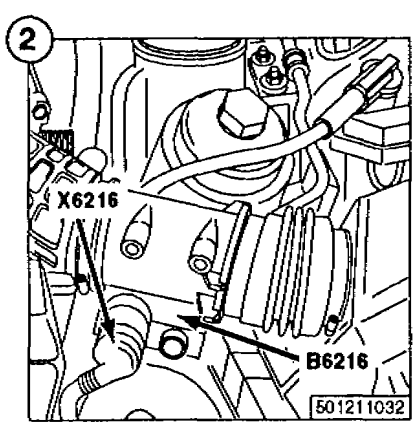
COMPONENT LOCATION VIEWS





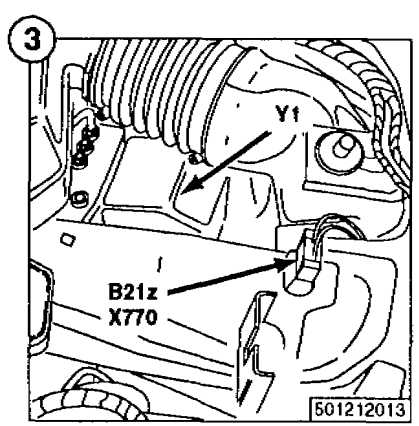
B206
OIL PRESSURE
SWITCH

X145



B6216
CYL. 1-6 MASS
AIR FLOW SENSOR

X6216

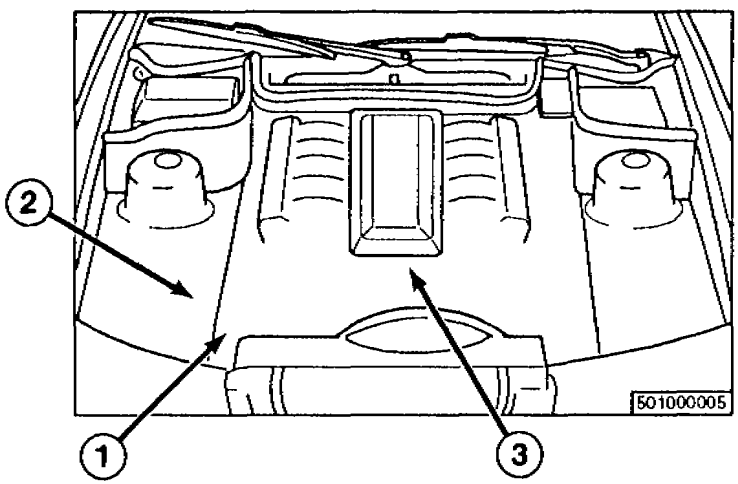


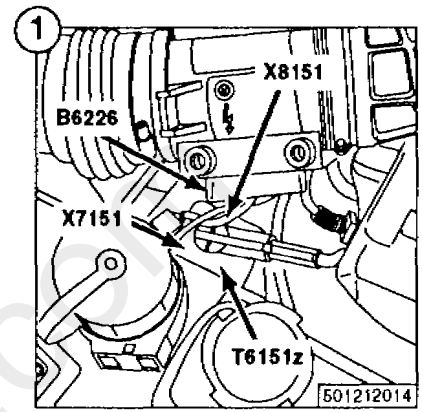
B21z
TEMPERATURE
SENSOR

Y1
ABS
HYDRAULIC UNIT

X770

cardiagn.com



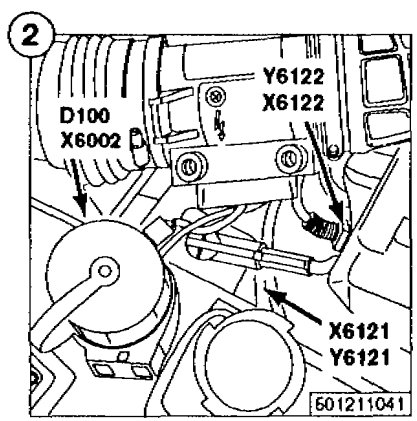


B6226
CYL. 7-12 MASS AIR FLOW SENSOR

T6151z
CYL. 1-8 IGNITION COIL

X7151

X8151



D100
DATA LINK CONNECTOR

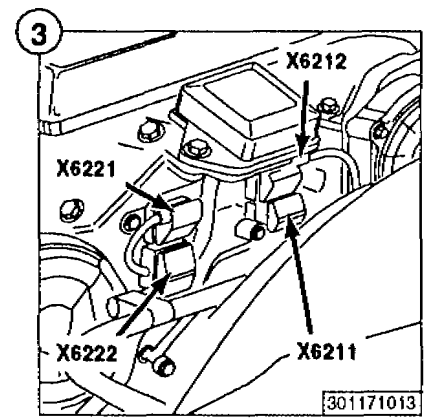
Y6121
CYL. 1-6 EVAPORATIVE EMISSION VALVE

Y6122
CYL. 7-12 EVAPORATIVE EMISSION VALVE

X6002

X6121

X6122



X6211

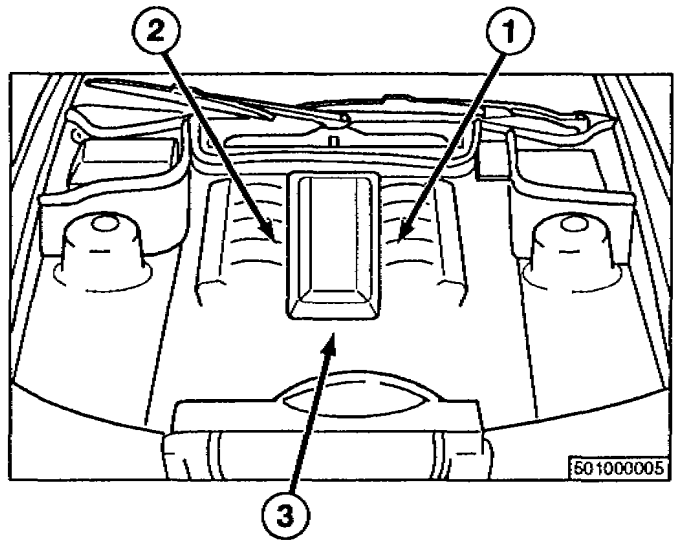
X6212

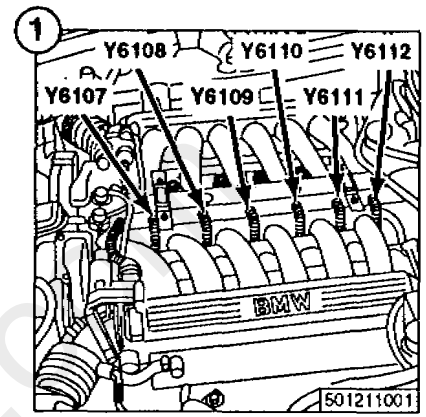
X6221

X6222

cardiagn.com

COMPONENT LOCATION VIEWS





Y6107
CYL. 7 FUEL
INJECTION VALVE

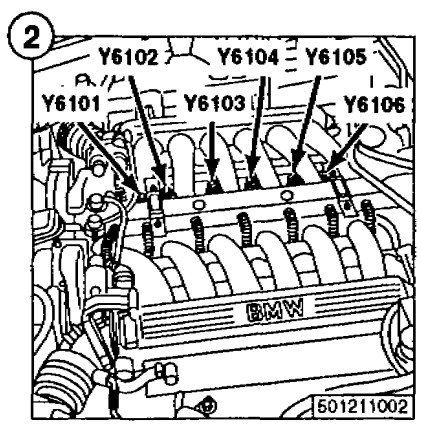
Y6110
CYL. 10 FUEL
INJECTION VALVE

Y6108
CYL. 8 FUEL
INJECTION VALVE

Y6111
CYL. 11 FUEL
INJECTION VALVE

Y6109
CYL. 9 FUEL
INJECTION VALVE

Y6112
CYL. 12 FUEL
INJECTION VALVE



Y6101
CYL. 1 FUEL
INJECTION VALVE

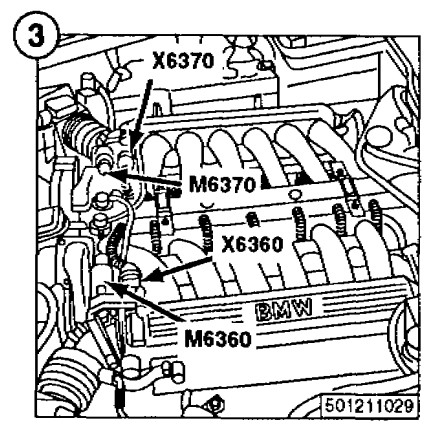
Y6104
CYL. 4 FUEL
INJECTION VALVE

Y6102
CYL. 2 FUEL
INJECTION VALVE

Y6105
CYL. 5 FUEL
INJECTION VALVE

Y6103
CYL. 3 FUEL
INJECTION VALVE

Y6106
CYL. 6 FUEL
INJECTION VALVE



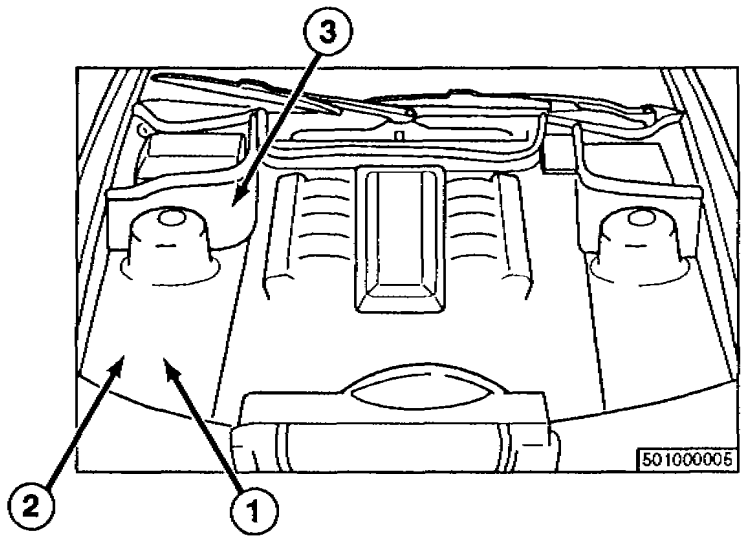
M6360
EML ACTUATOR
MOTOR I

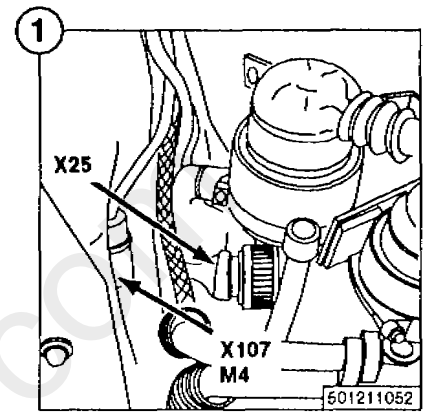
M6370
EML ACTUATOR
MOTOR II

X6360
X6370

cardiagn.com

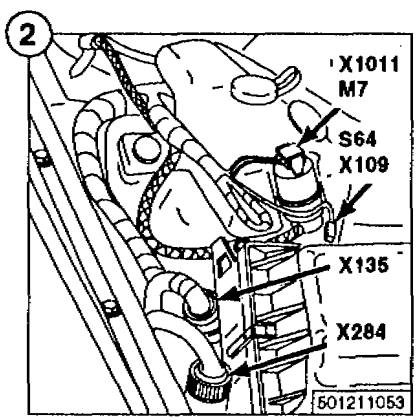
COMPONENT LOCATION VIEWS





M4
WASHER PUMP

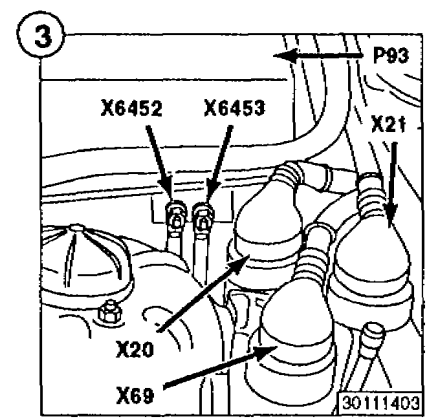
X25
X107



S64
WASHER
FLUID LEVEL
SWITCH

M7
HEADLIGHT/
FOG LIGHT
WASHER PUMP

X109
X135
X284
X1011



P93
E-BOX

X6452
GROUND

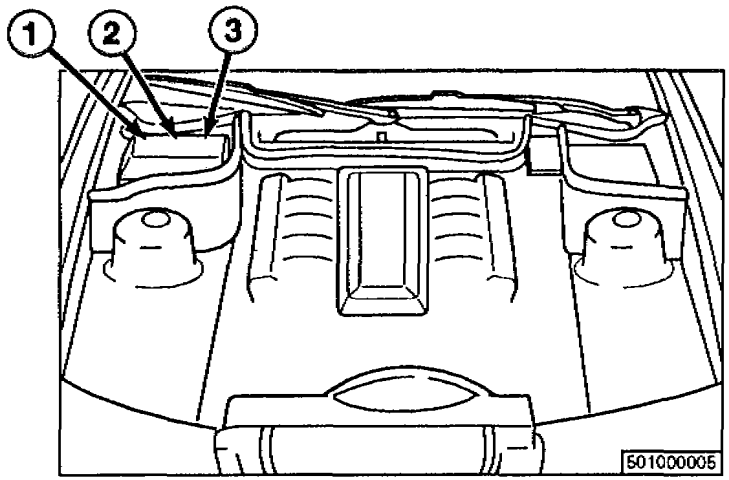
X6453
GROUND

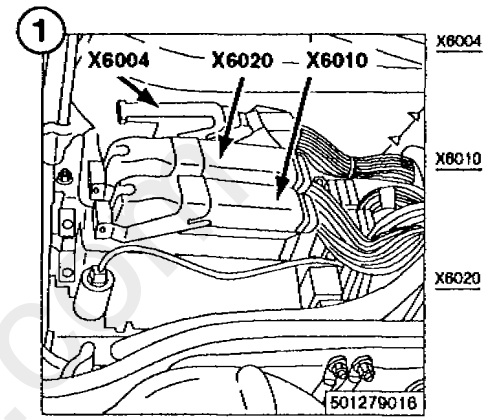
X20

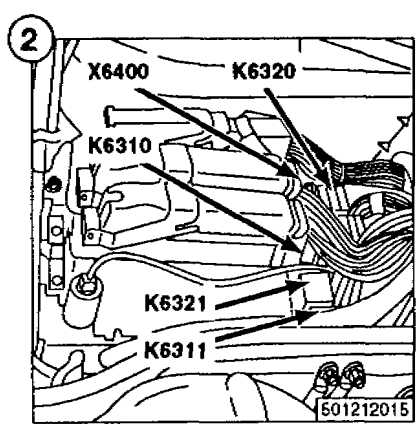
X21
X69

cardiagn.com

COMPONENT LOCATION VIEWS







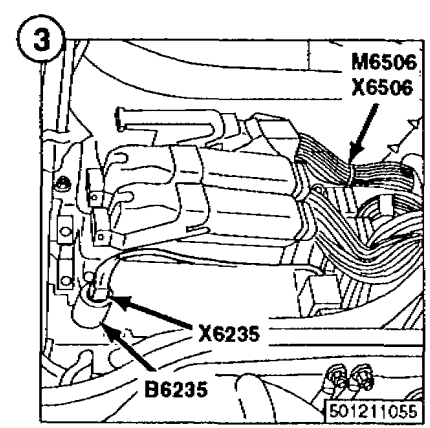
K6310
CYL. 1-6
ENGINE CONTROL
MODULE RELAY

K6311
CYL. 1-6 FUEL
PUMP RELAY

K6320
CYL. 7-12
ENGINE CONTROL
MODULE RELAY

K6321
CYL. 7-12
FUEL PUMP RELAY

X6400



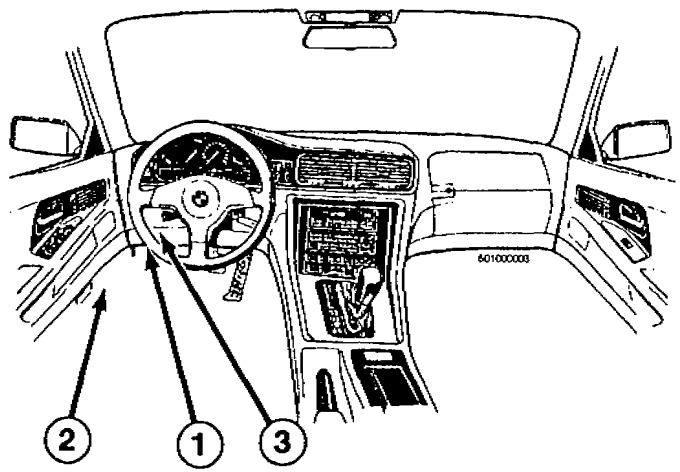
B6235
TEMPERATURE
SWITCH

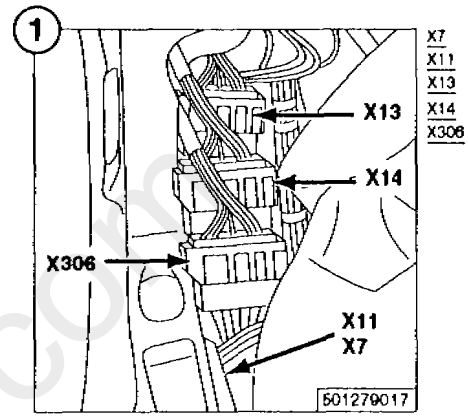
M6506
E-BOX FAN

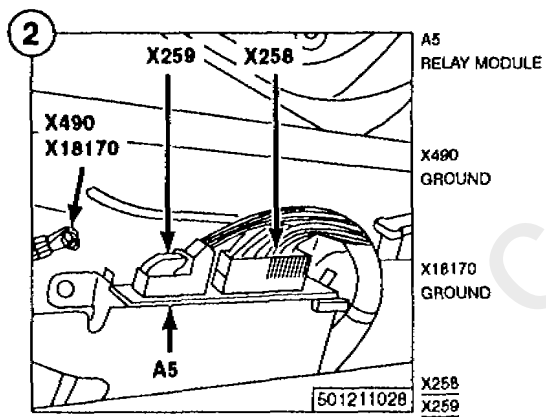
X6506
X6235

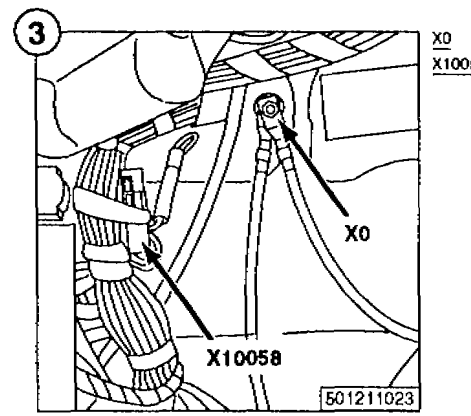
cardiagn.com

COMPONENT LOCATION VIEWS



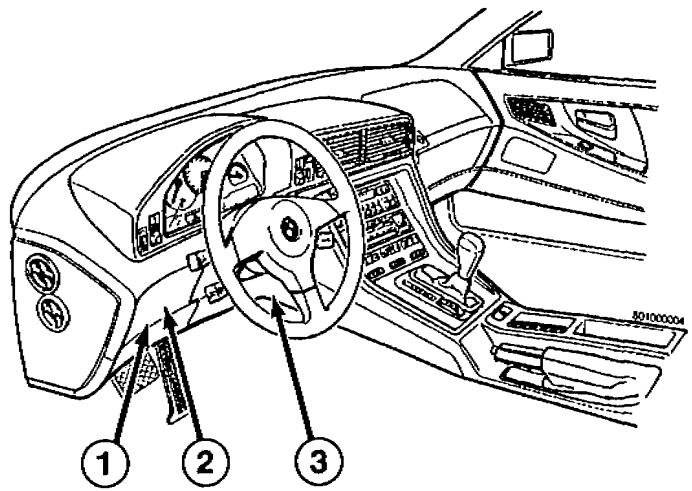


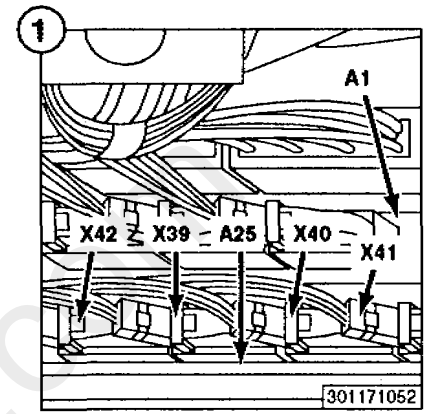




cardiagn.com

COMPONENT LOCATION VIEWS

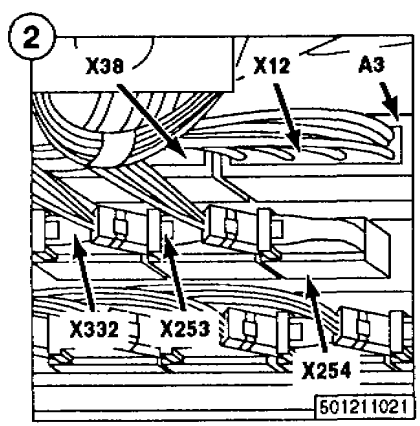




A1
GENERAL MODULE

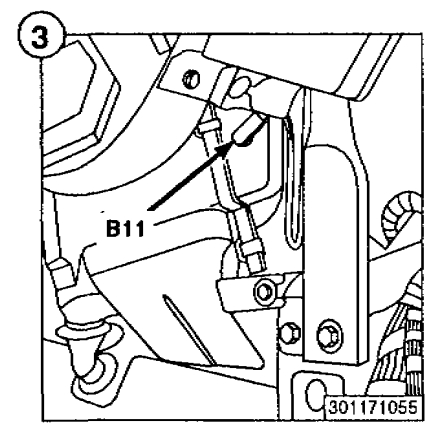
A25
BODY
ELECTRONICS
MODULE

X39
X40
X41
X42



A3
LAMP CONTROL
MODULE

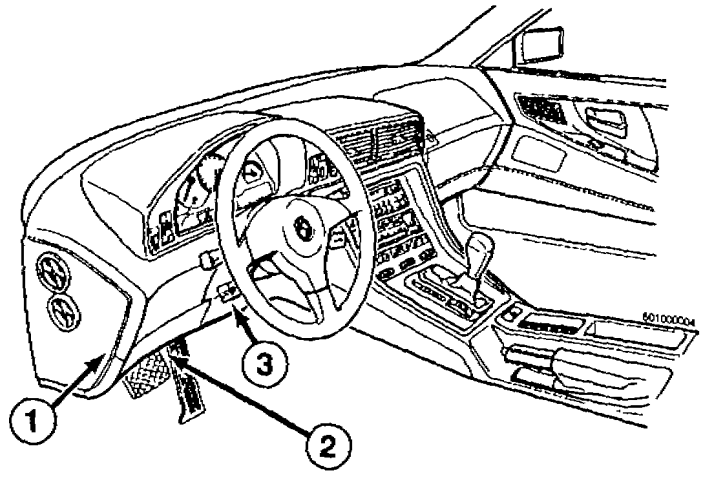
X12
X38
X253
X254
X332

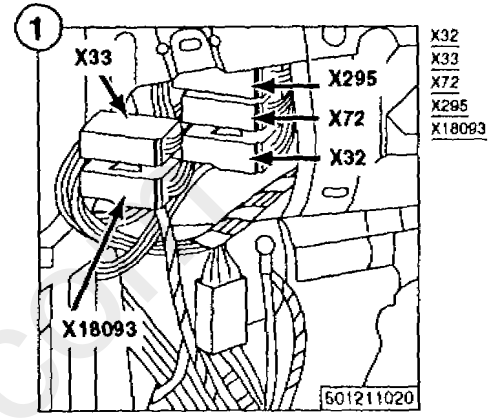


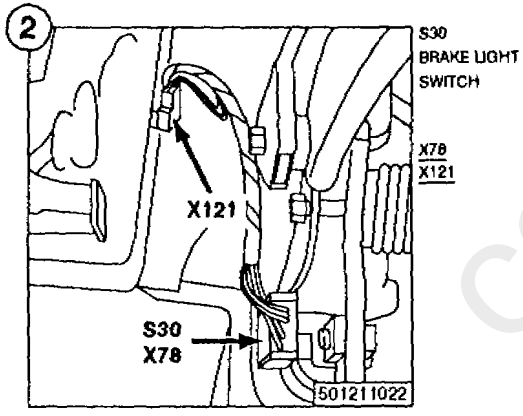
B11
LH HEAT
EXCHANGER
TEMPERATURE
SENSOR

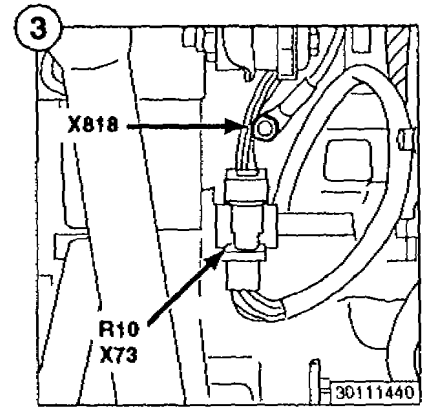
cardiagn.com

COMPONENT LOCATION VIEWS



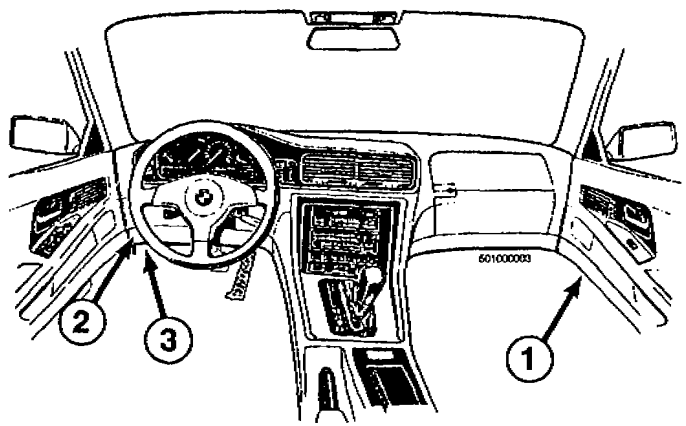


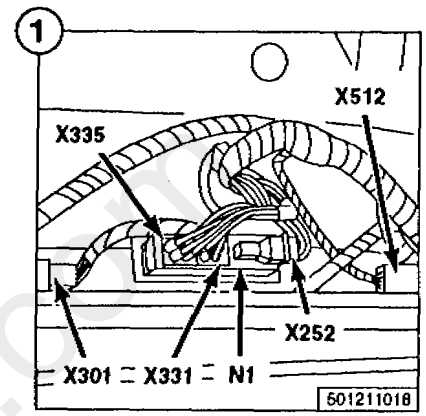




cardiagn.com

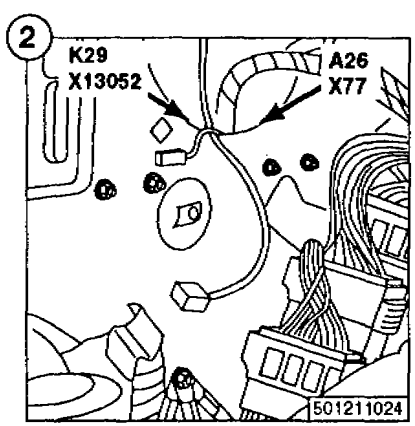
COMPONENT LOCATION VIEWS





N1
ANTI-THEFT
CONTROL MODULE
(DWA)

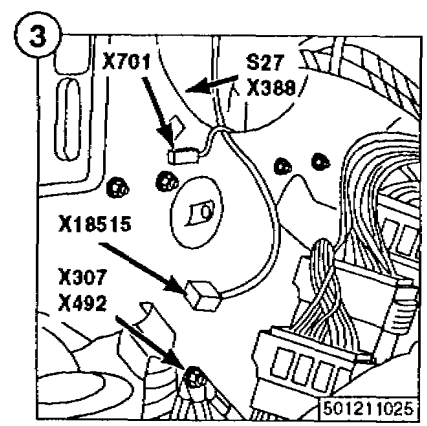
X252
X301
X331
X335
X512



A26
LOCK-SENSOR
CONTROL MODULE

K29
INTERIOR
LIGHT RELAY

X77
X13052



S27
INERTIA
SWITCH

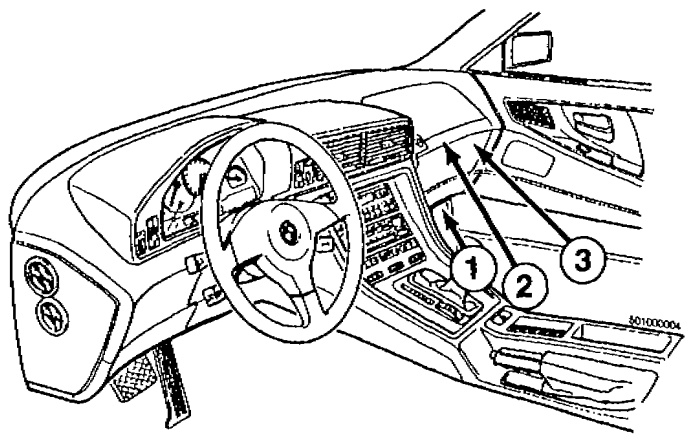
X307
GROUND

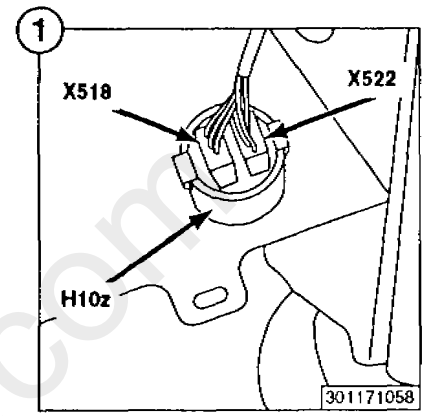
X492
GROUND

X388
X701
X16515

cardiagn.com

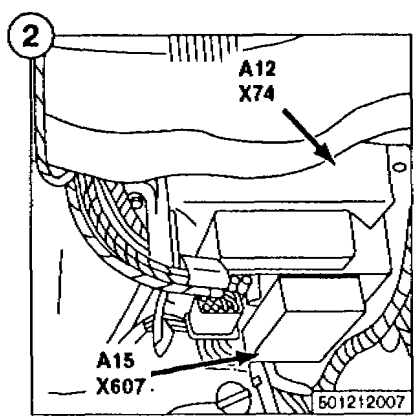
COMPONENT LOCATION VIEWS





H10z
ACOUSTIC
DEVICE

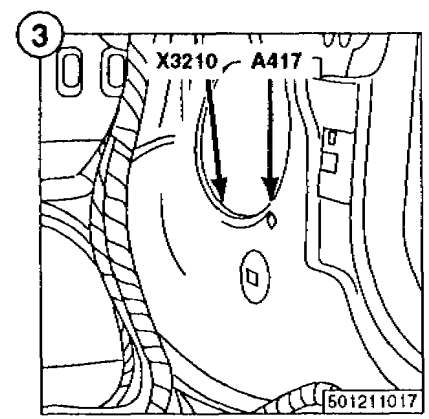
X518
X522



A12
SUPPLEMENTAL
RESTRAINT
SYSTEM
CONTROL MODULE

A15
PARK HEATING/
VENTILATION
RELAY BOX

X74
X607

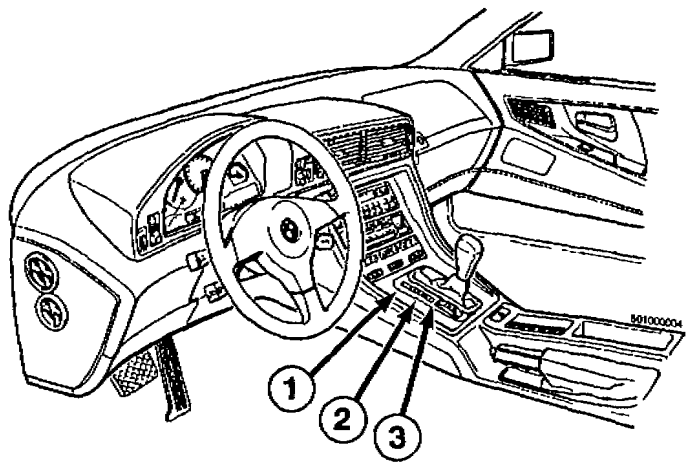


A417
AUTOMATIC AIR
RECIRCULATION
CONTROL MODULE

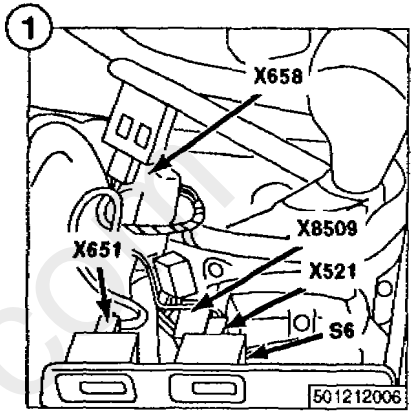
X3210

cardiagn.com

COMPONENT LOCATION VIEWS

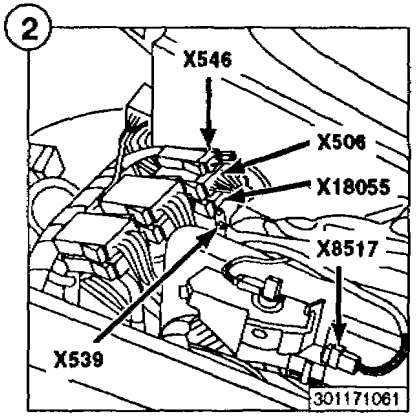


1 S6 ASC SWITCH



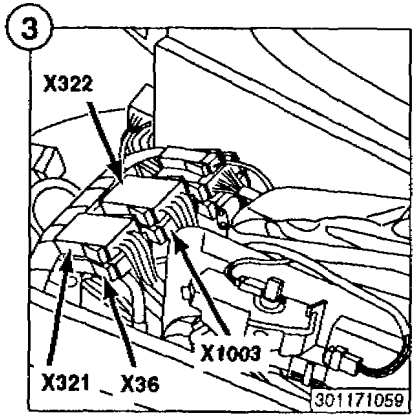
X521
X651
X656
X8509

2



X506
X539
X546
X8517
X18055

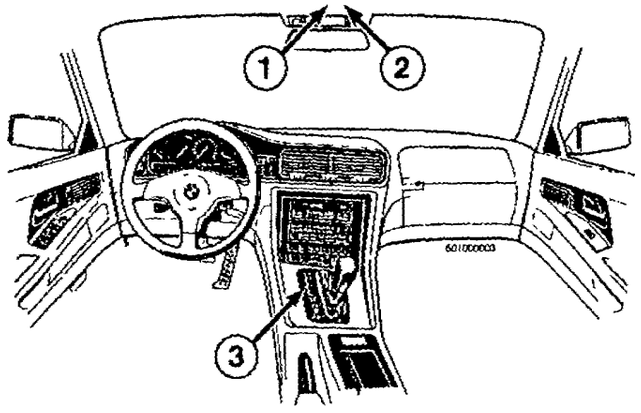
3

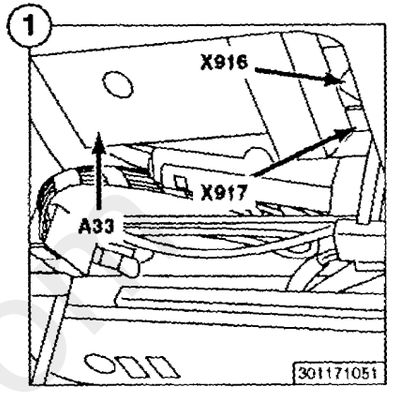


X36
X321
X322
X1003

cardiagn.com

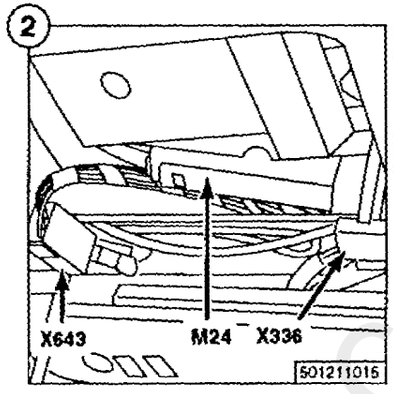
COMPONENT LOCATION VIEWS





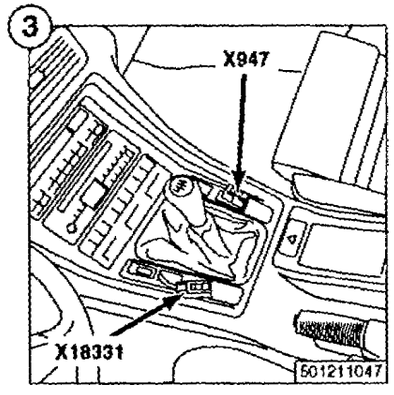
A33
SUNROOF MODULE

X916
X917



M24
SUNROOF MOTOR

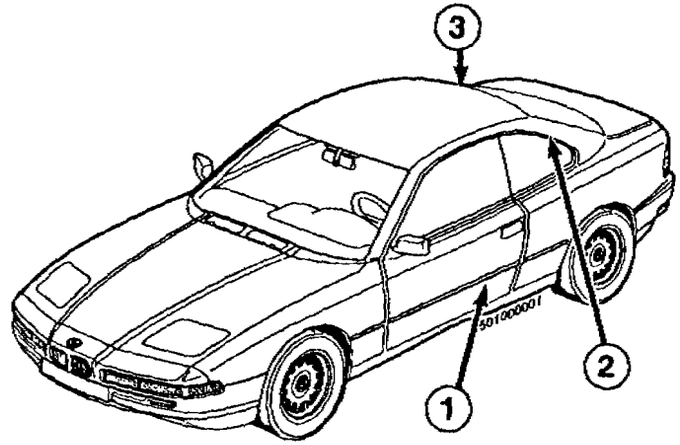
X336
X643

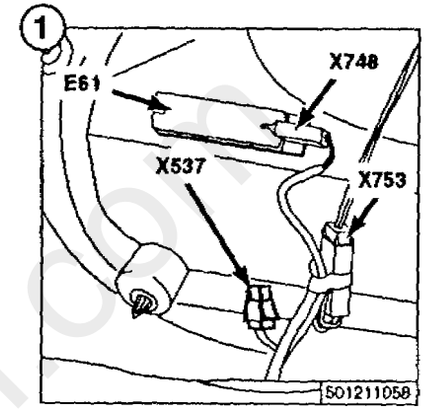


X647
X18331

cardiagn.com

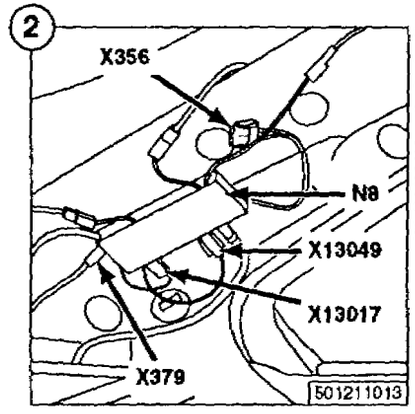
COMPONENT LOCATION VIEWS





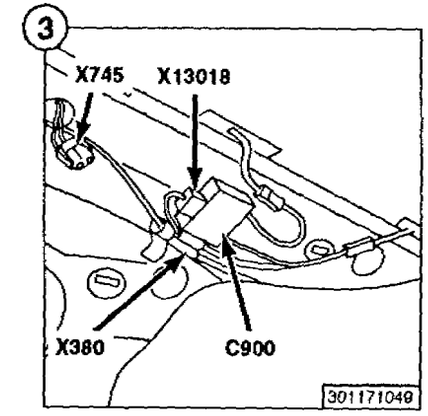
E61
LEFT FRONT
FOOTWELL LIGHT

X537
X748
X753



N8
ANTENNA
AMPLIFIER
AM/FM

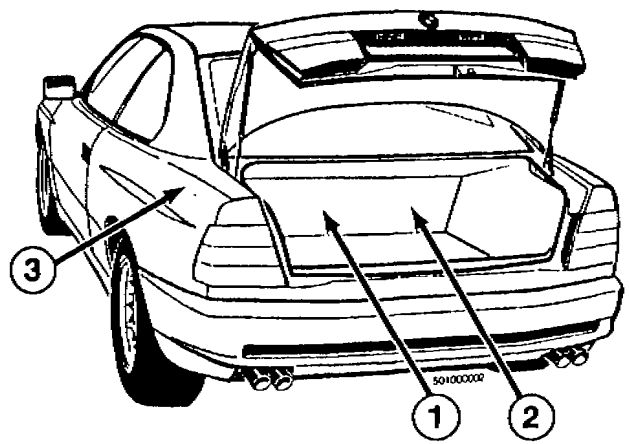
X356
X379
X13017
X13048



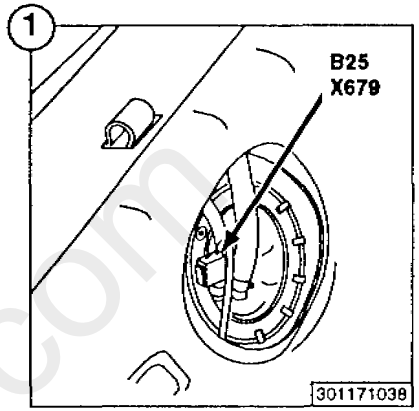
C900
SUPPRESSION
FILTER

X380
X745
X13018

cardiagn.com



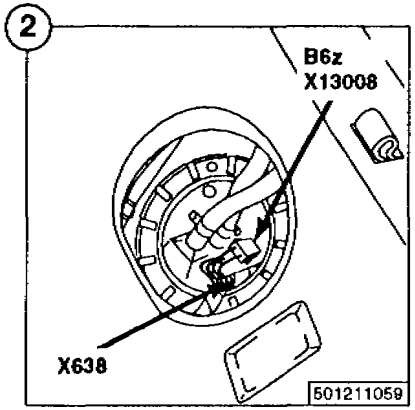
1



B25
FUEL LEVEL
SENSOR II

X679

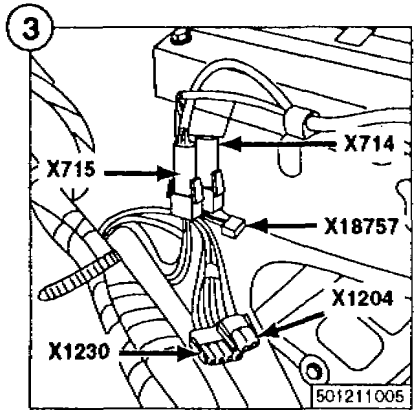
2



B6z
FUEL LEVEL
SENSOR I

X638
X13008

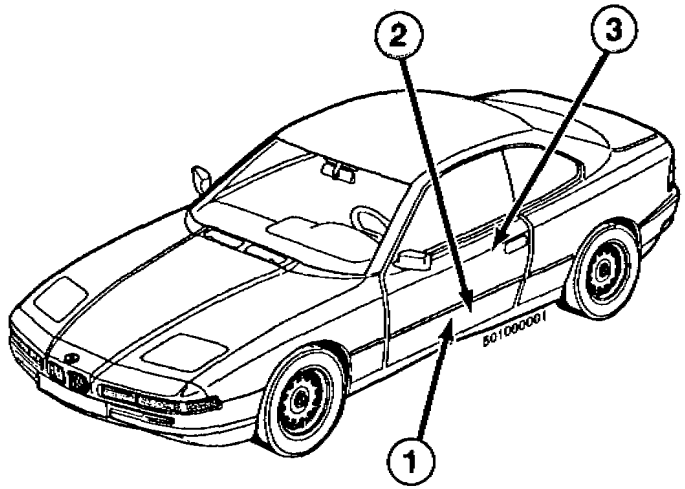
3

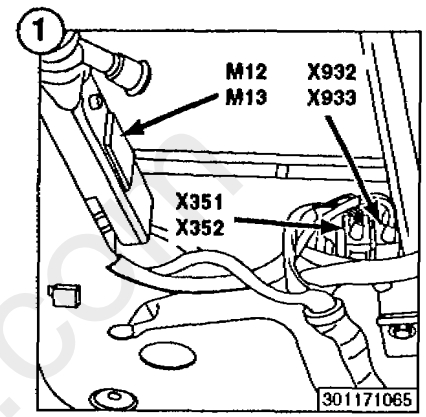


X714
X715
X1204
X1230
X18757

cardiagn.com

COMPONENT LOCATION VIEWS



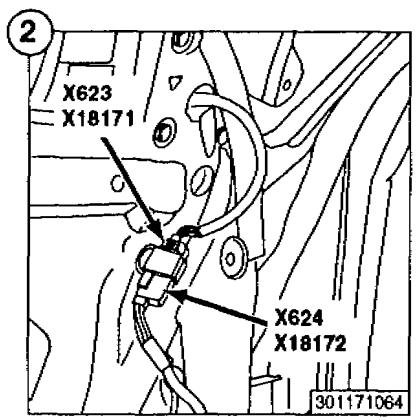


M12
DRIVER'S
DOOR LOCK
MOTOR

M13
PASSENGER'S
DOOR LOCK
MOTOR

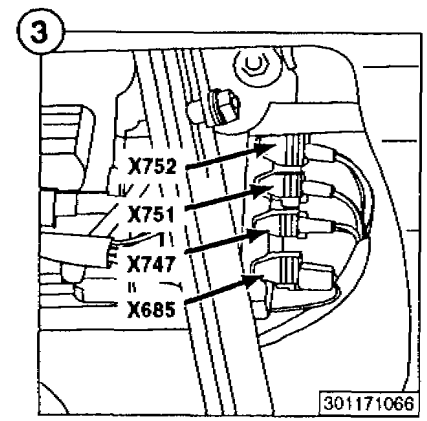
X351
X352
X932
X933

RH SIMILAR



X623
X624
X18171
X18172

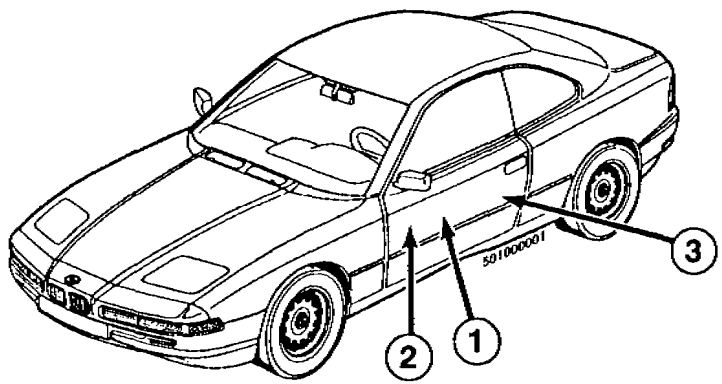
RH SIMILAR

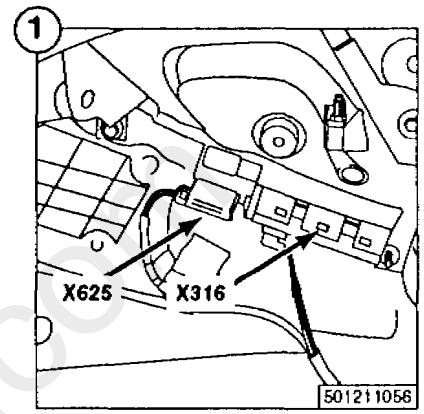


X685
X747
X751
X752

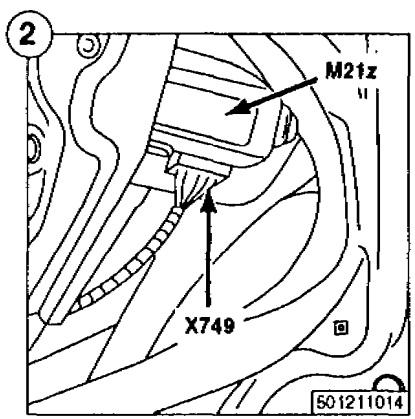
cardiagn.com

COMPONENT LOCATION VIEWS



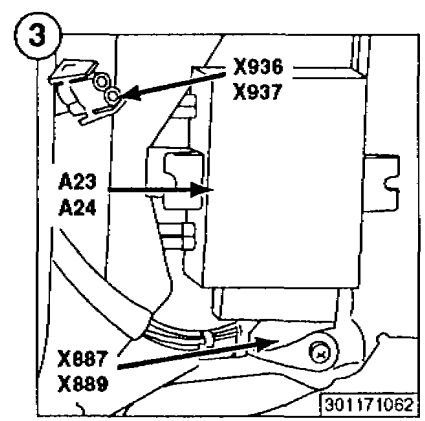


X316
X625



M21z
DRIVER'S POWER WINDOW MOTOR/ INCREMENT SENSOR

X749



A23
DRIVER'S DOOR MODULE

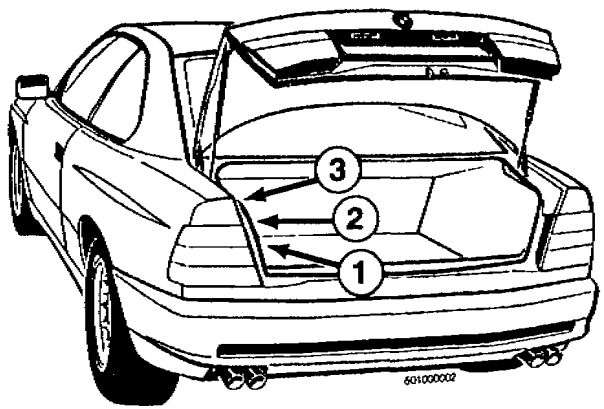
A24
PASSENGER'S DOOR MODULE

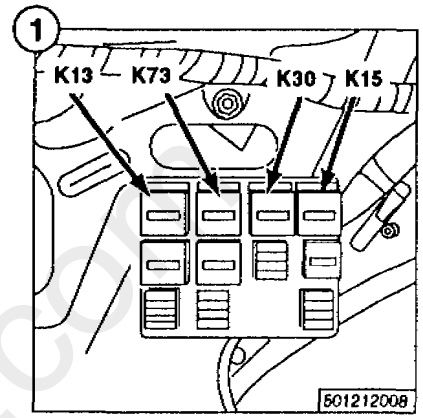
X887
X889
X936
X937

RH SIMILAR

cardiagn.com

COMPONENT LOCATION VIEWS



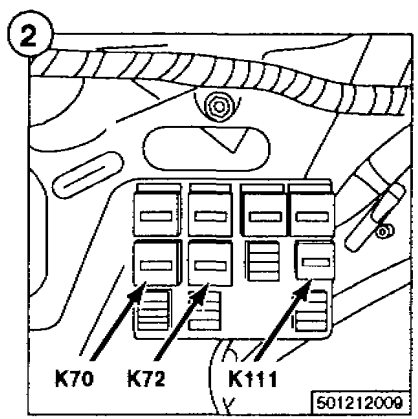


K13
REAR DEFOGGER
RELAY

K73
CONSUMER
CUT-OFF RELAY
II

K15
ELECTRIC
POWER
PROTECTION
RELAY

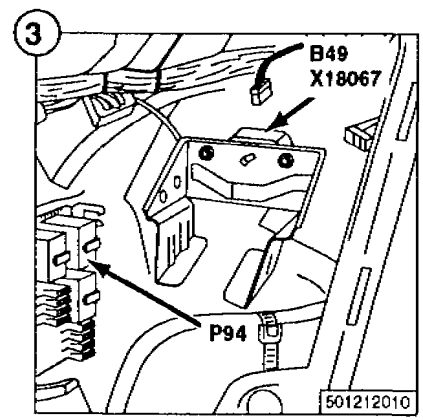
K30
ELECTRIC
POWER
PROTECTION
RELAY II



K70
CENTRAL LOCKING
TRUNK LID
MOTOR RELAY
(ZV)

K72
CONSUMER
CUT-OFF RELAY I

K111
DAYTIME
RUNNING LIGHTS
RELAY



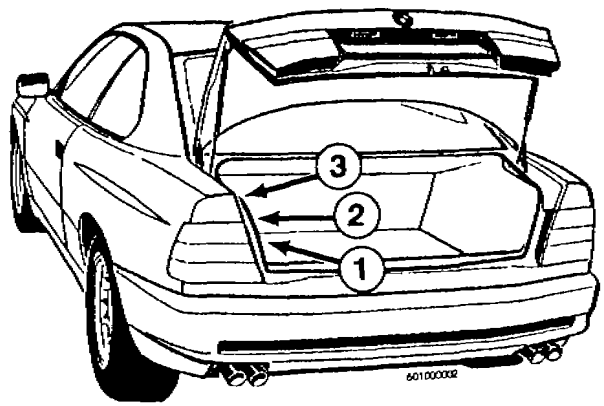
B49
LONGITUDINAL
ACCELERATION
SENSOR

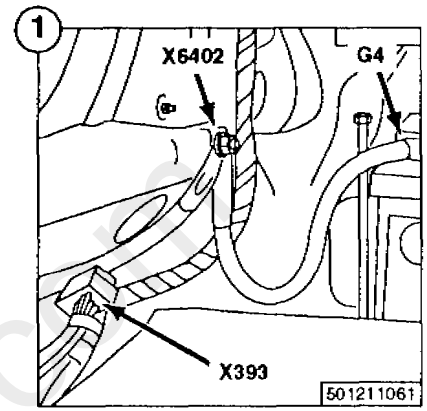
P94
REAR POWER
DISTRIBUTION
BOX

X18067

cardiagn.com

COMPONENT LOCATION VIEWS

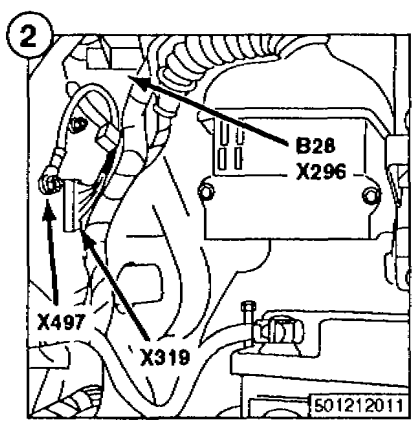




G4
LEFT
BATTERY II

X6402
GROUND

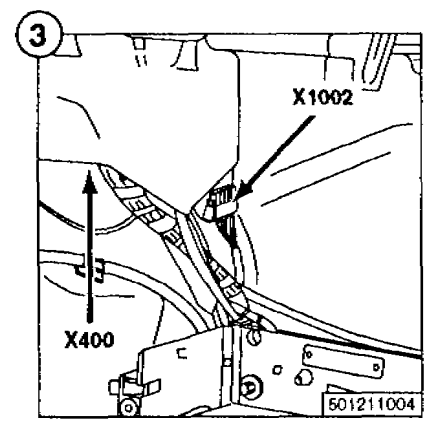
X393



B28
GRADIENT
MONITOR (DWA)

X497
GROUND

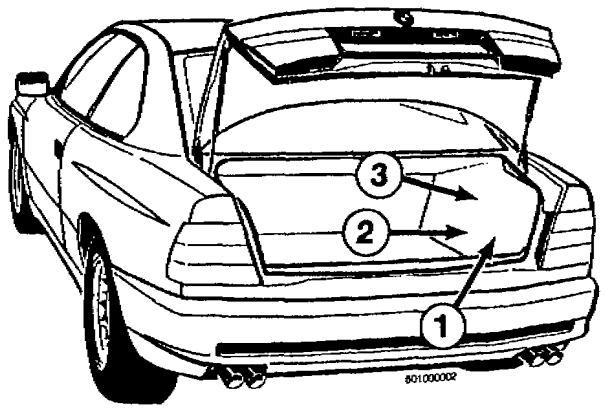
X296
X319

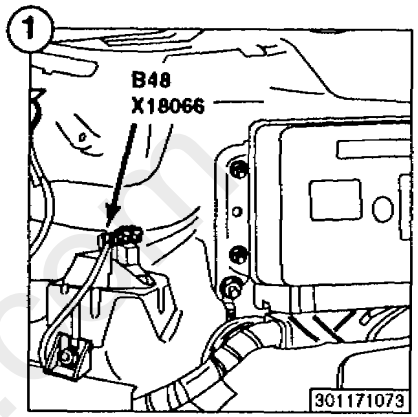


X400
X1002

cardiagn.com

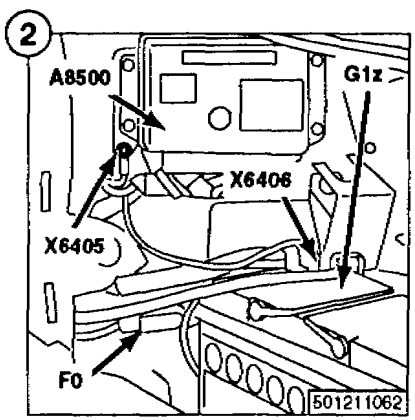
COMPONENT LOCATION VIEWS





B48
RIGHT REAR
ACCELERATION
SENSOR

X18066



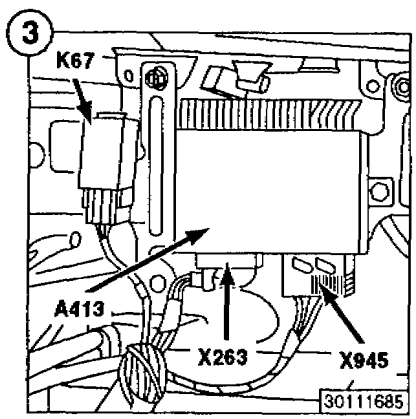
A8500
TRANSMISSION
CONTROL MODULE
(EGS)

G1z
RIGHT
BATTERY I

F0
FUSIBLE LINK

X6405
GROUND

X6406



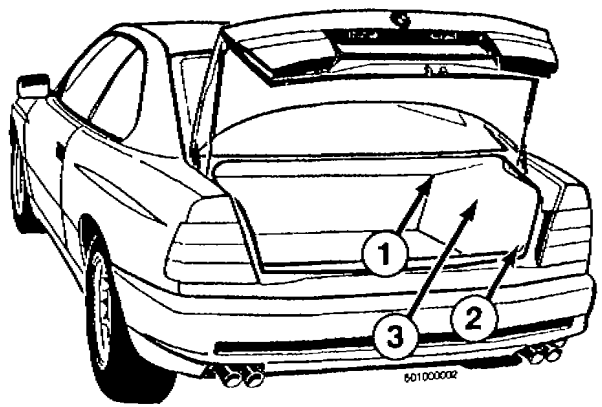
A413
ELECTRONIC
SHOCK
ABSORBER
CONTROL
MODULE (EDC)

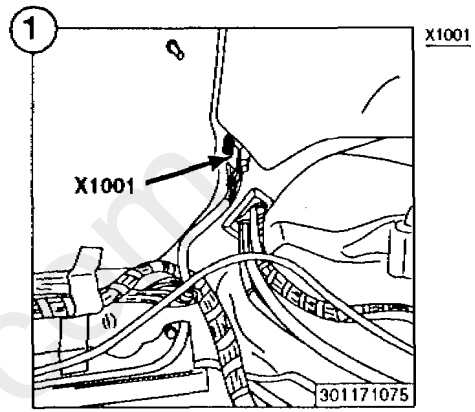
K67
EDC RELAY

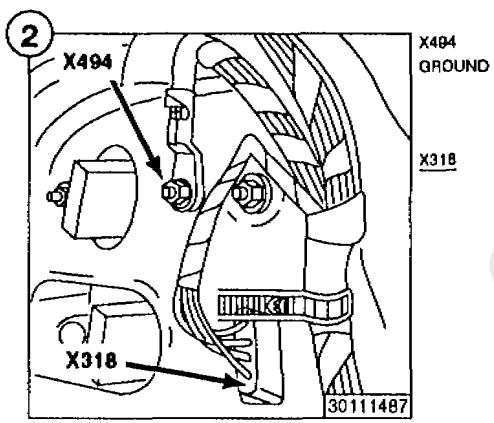
X263
X945

cardiagn.com

COMPONENT LOCATION VIEWS

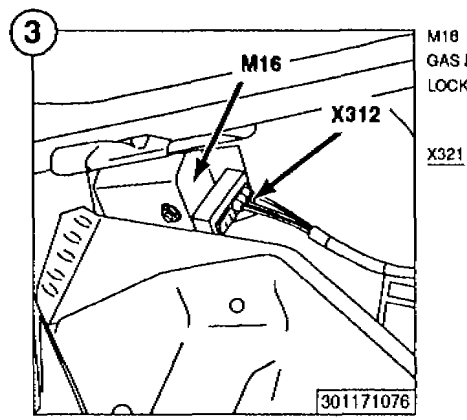






X494
GROUND

X318

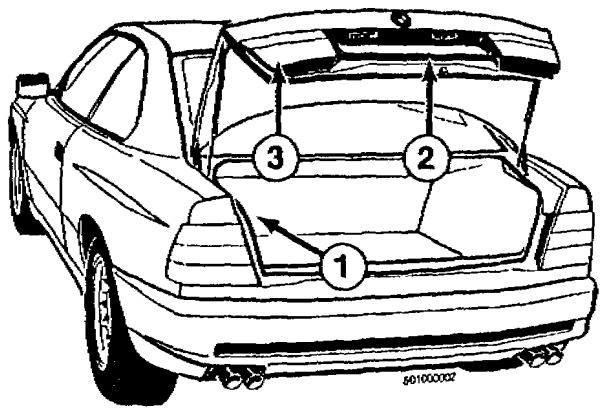


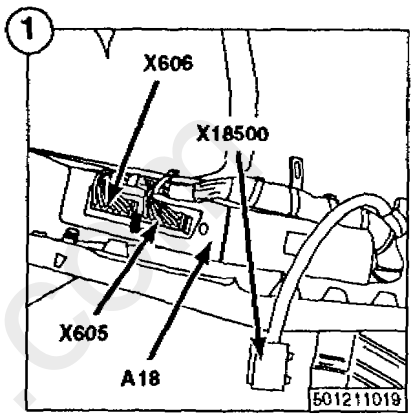
M16
GAS FILLER
LOCK MOTOR

X321

cardiagn.com

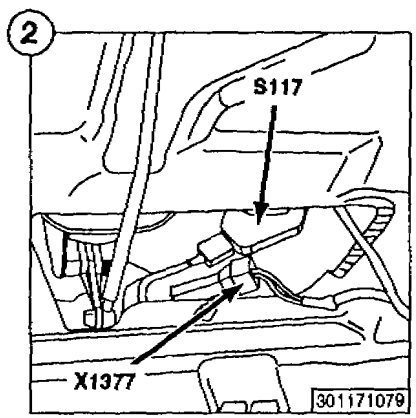
COMPONENT LOCATION VIEWS





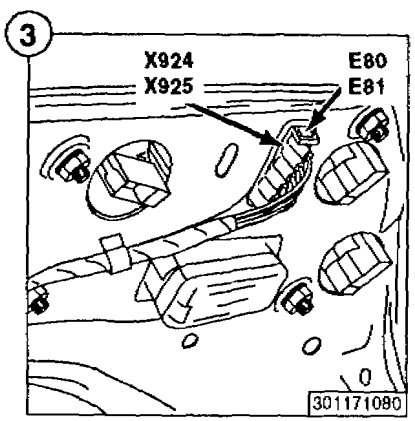
A18
HIFI AMPLIFIER

X605
X606
X18500



S117
TRUNK LID
LOCKING SWITCH

X1377



RH SIMILAR

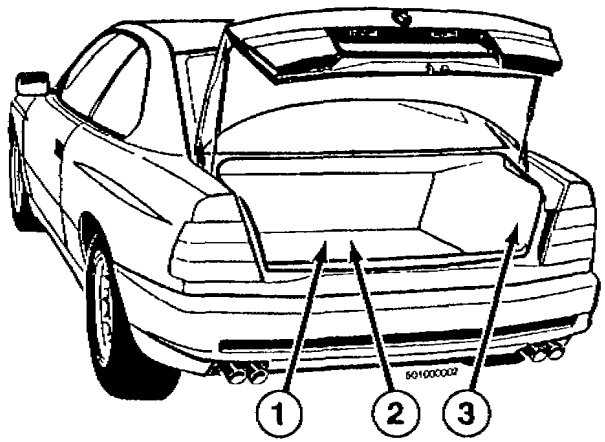
E80
LEFT REAR
LIGHT
ASSEMBLY II

E81
RIGHT REAR
LIGHT
ASSEMBLY II

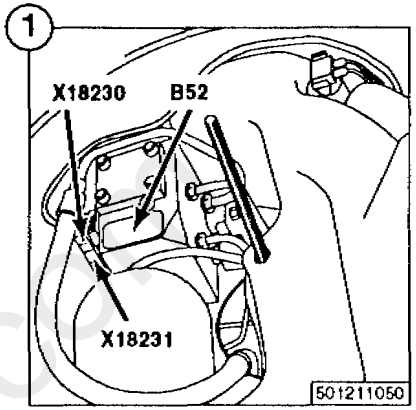
X924
X925

cardiagn.com

COMPONENT LOCATION VIEWS



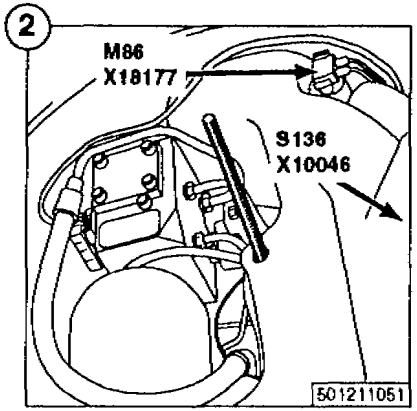
1



B52
ACCUMULATOR
CHARGING UNIT

X18230
X18231

2

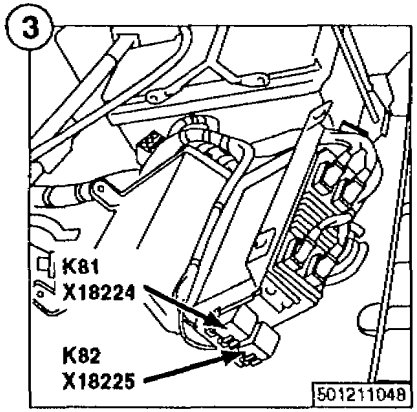


M86
WATER PUMP IN
LUGGAGE
COMPARTMENT

S136
WASHER FLUID
LEVEL SWITCH

X10046
X18177

3



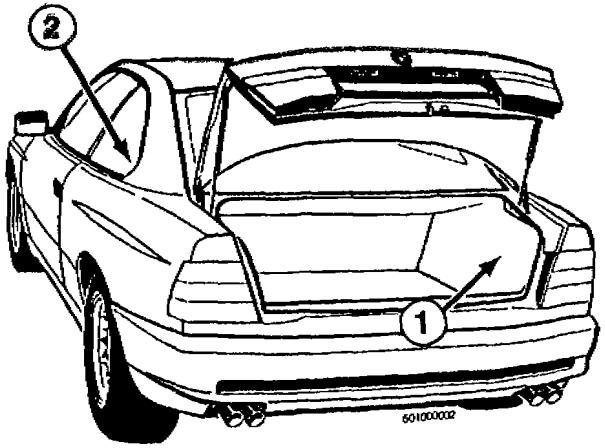
K81
WARNING LIGHT
RELAY

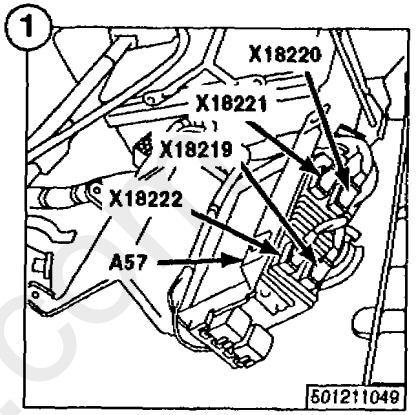
K82
AHK RELAY

X18224
X18225

cardiagn.com

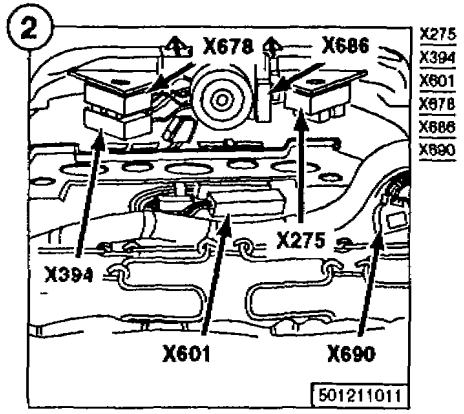
COMPONENT LOCATION VIEWS



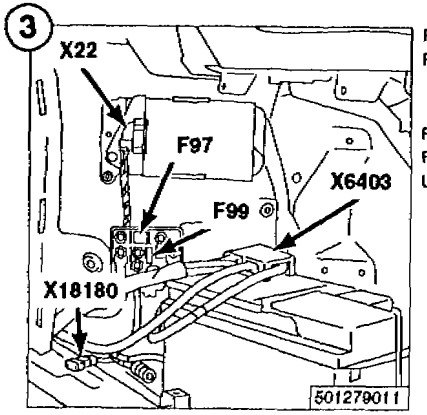


A57
AHK
CONTROL MODULE

X18219
X18220
X18221
X18222



X275
X394
X601
X678
X686
X690



F97
FUSIBLE LINK

F99
FUSIBLE
LINK (50A)

X22
X6403
X18180

cardiagn.com

cardiagn.com

SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X190	FRONT	8000.0-02
X195	CHASSIS	8000.0-03
X196-X208	FRONT	8000.0-02
X212-X265	FRONT	8000.0-02
X267	REAR	8000.0-04
X276	FRONT	8000.0-02
X427-X486	REAR	8000.0-04
X557	GLOVE BOX LIGHTS	NOT SHOWN
X558-X559	REAR	8000.0-04
X560	FRONT	8000.0-02
X566-X567	CHASSIS	8000.0-03
X582-X704	FRONT	8000.0-02
X801	FRONT	8000.0-02
X805	REAR	8000.0-04
X806	FRONT	8000.0-02
X824	RADIO	NOT SHOWN
X830	RADIO	NOT SHOWN
X833	REAR	8000.0-04
X840	DRIVER'S SEAT	NOT SHOWN
X844	PASSENGER'S SEAT	NOT SHOWN
X848-X851	DRIVER'S DOOR	NOT SHOWN
X852-X859	IHKA	NOT SHOWN
X878	RADIO	NOT SHOWN
X891-X892	PASSENGER'S DOOR	NOT SHOWN
X894	REAR	8000.0-04
X914	FRONT	8000.0-02
X926-X927	DRIVER'S DOOR	NOT SHOWN
X928-X929	PASSENGER'S DOOR	NOT SHOWN
X934	DRIVER'S DOOR	NOT SHOWN
X935	PASSENGER'S DOOR	NOT SHOWN
X939	REAR	8000.0-04
X943	SUNSHADE	NOT SHOWN
X960-X980	BATTERY	NOT SHOWN
X1006	REAR	8000.0-04
X1017-X1018	CHASSIS	8000.0-03
X1022-X1036	FRONT	8000.0-02
X1180	CHASSIS	8000.0-03
X1183	FRONT	8000.0-02
X1200	FRONT	8000.0-02
X1202-X1215	REAR	8000.0-04
X1351-X1356	CHASSIS	8000.0-03
X1359-X1378	REAR	8000.0-04
X1411-X1414	CHASSIS	8000.0-03
X1472	REAR	8000.0-04
X6245	ENGINE	8000.0-05
X6412-X6491	M60 ENGINE	8000.0-05
X6411-X8047	ENGINE	NOT SHOWN
X6810-X6866	M60 ENGINE	8000.0-05
X6900-6908	M60 ENGINE	8000.0-05
X8004-X8072	M60 ENGINE	8000.0-05
X8561-X8576	M60 ENGINE	8000.0-05
X8564-X8565	FRONT	8000.0-02
X10014-X10056	FRONT	8000.0-02
X10064	CHASSIS	8000.0-03
X10090	REAR	8000.0-04
X11245	FRONT	8000.0-02

carsdiagn.com

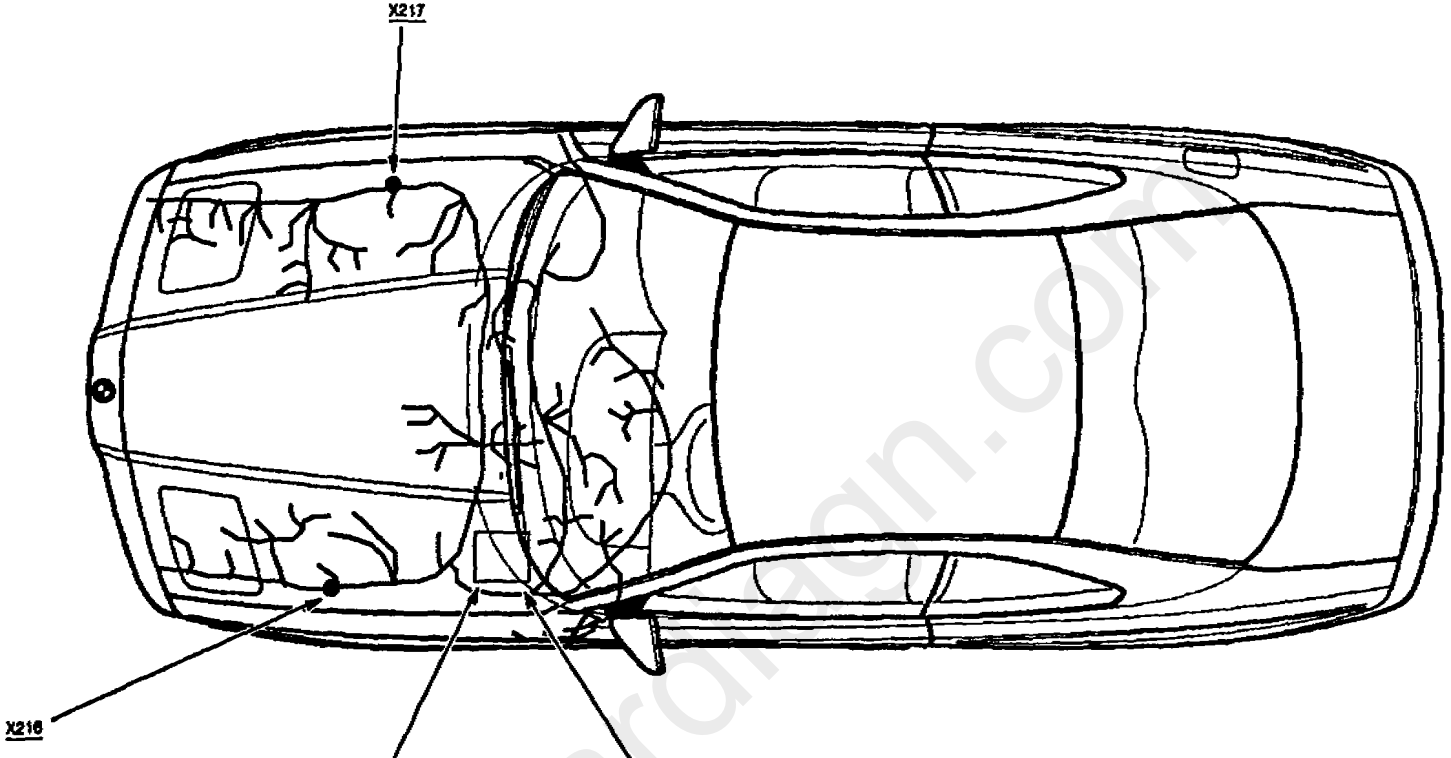
SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X11267	FRONT	8000.0-02
X13000	REAR	8000.0-04
X13047	REAR	8000.0-04
X13133	REAR	8000.0-04
X13141	REAR	8000.0-04
X18026-X18046	CHASSIS	8000.0-03
X18044	FRONT	8000.0-02
X18048	REAR	8000.0-04
X18056-X18087	CHASSIS	8000.0-03
X18091	DRIVER'S SEAT	NOT SHOWN
X18092	PASSENGER'S SEAT	NOT SHOWN
X18100-X18102	DRIVER'S SEAT	NOT SHOWN
X18104-X18106	DRIVER'S SEAT	NOT SHOWN
X18108	PARK HEATING/VENTILATION	NOT SHOWN
X18121-X18122	REAR	8000.0-04
X18123	DRIVER'S DOOR	NOT SHOWN
X18140-X18142	IHKA	NOT SHOWN
X18174	RADIO	NOT SHOWN
X18175	DRIVER'S SEAT	NOT SHOWN
X18182	RADIO	NOT SHOWN
X18217	DRIVER'S DOOR	NOT SHOWN
X18226-X18241	CHASSIS	8000.0-03
X18299-X18335	CHASSIS	8000.0-03
X18247	DRIVER'S SEAT	NOT SHOWN
X18737	DRIVER'S SEAT	NOT SHOWN
X18738	PASSENGER'S SEAT	NOT SHOWN
X18740	GLOVE BOX LIGHTS	NOT SHOWN
X18744-X18747	FRONT	8000.0-02
X18768	CHASSIS	8000.0-03
X18769	CHASSIS	8000.0-03
X18780	FRONT	8000.0-02
X19507	FRONT	8000.0-02
X19515	DRIVER'S DOOR	NOT SHOWN
X19516	PASSENGER'S DOOR	NOT SHOWN
X19526	CHASSIS	8000.0-03

carmagn.com

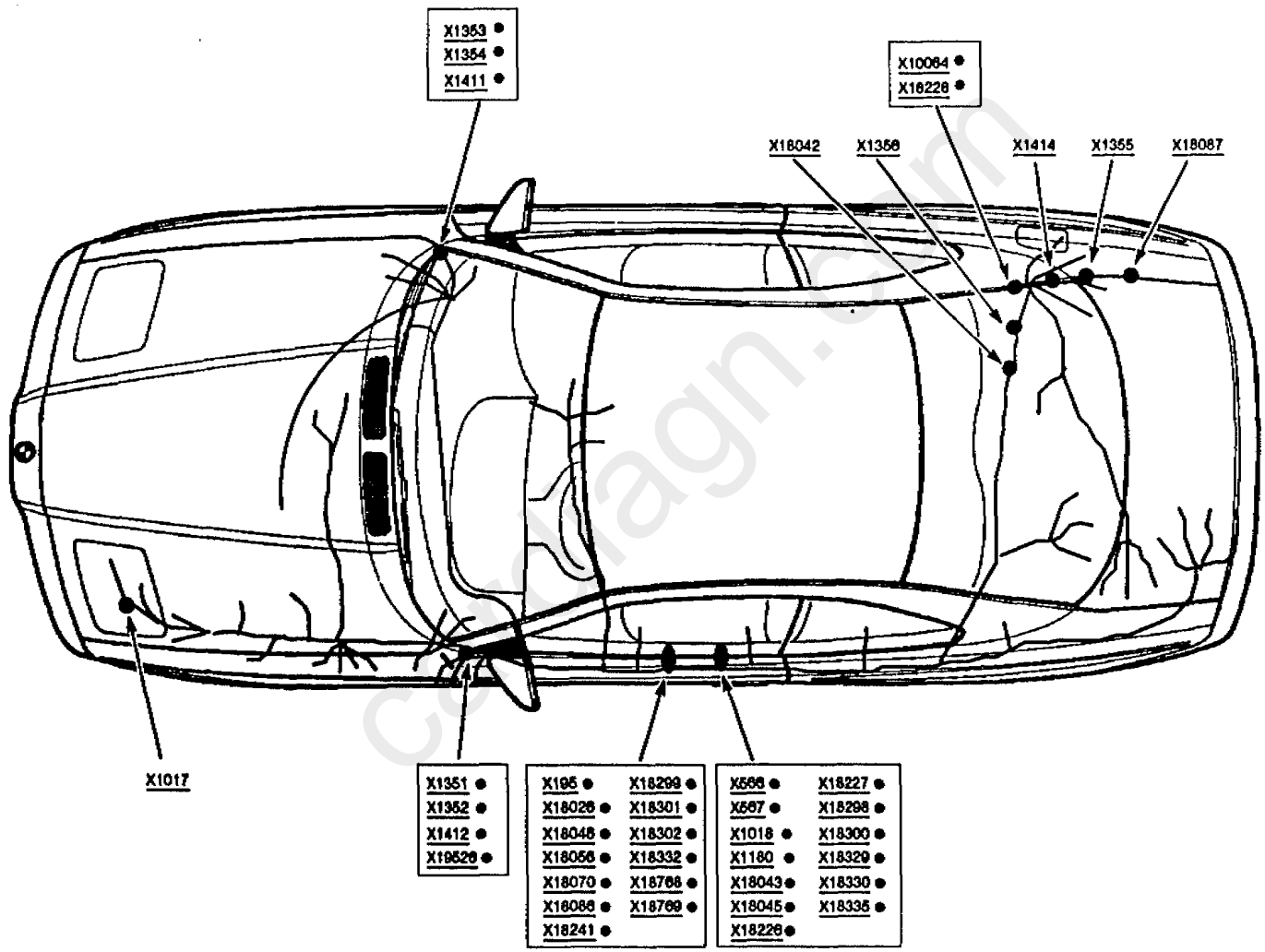
SPLICE LOCATION VIEWS
FRONT HARNESS



carofan.com

SPLICE LOCATION VIEWS

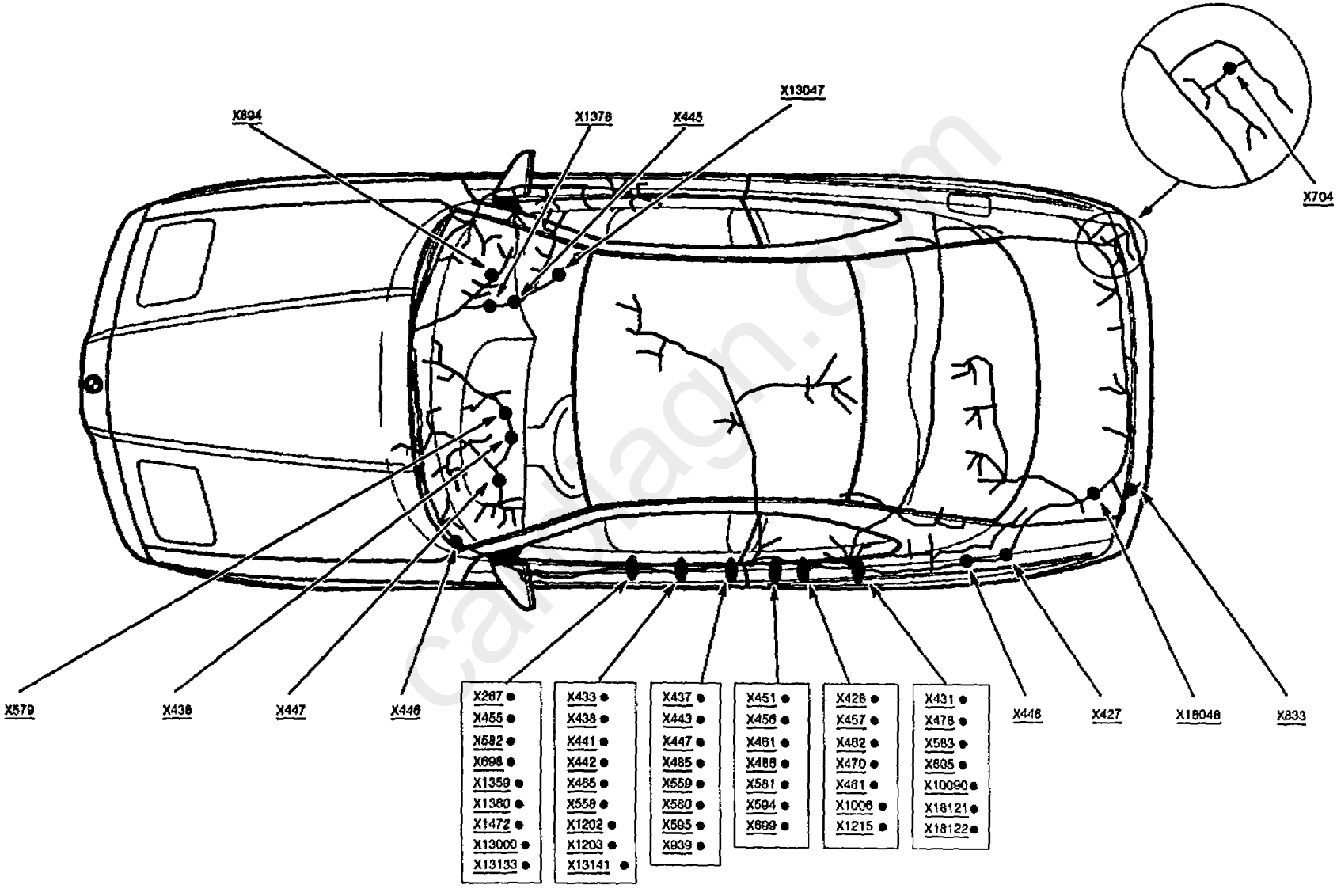
CHASSIS HARNESS



carlagn.com

SPLICE LOCATION VIEWS

REAR HARNESS



carlagn.com

cardiagn.com

FIG. 1

B880001.00

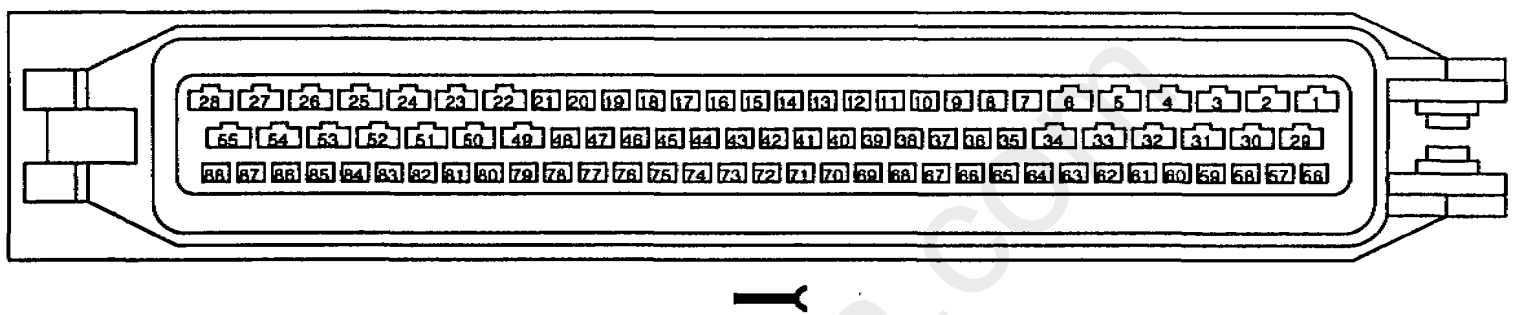


FIG. 2

B550001.00

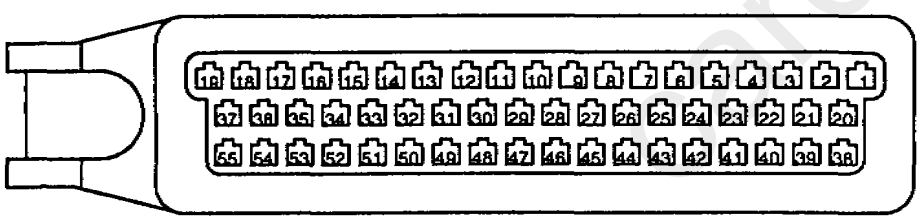
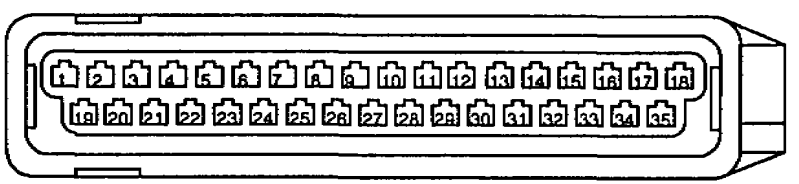


FIG. 3

B350002.05



CONNECTOR VIEWS

FIG. 1

B300001.01

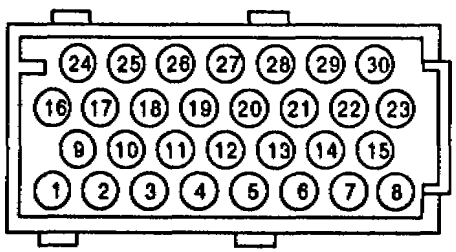


FIG. 2

B260005.01

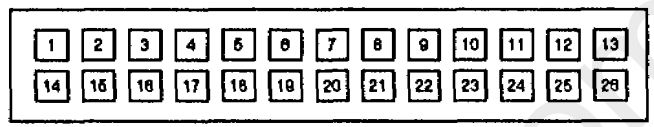


FIG. 3

B260002.00

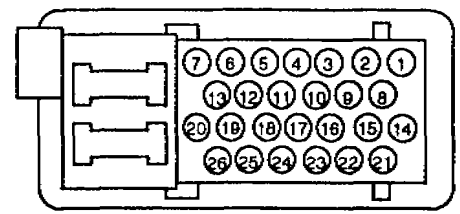


FIG. 4

B260002.00

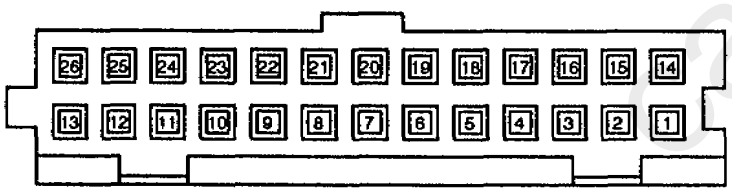


FIG. 5

B250001.02

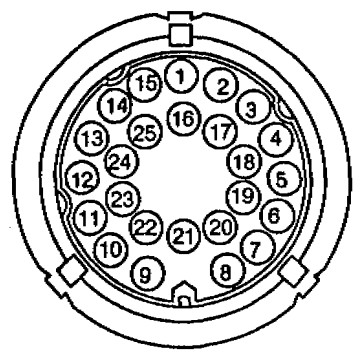
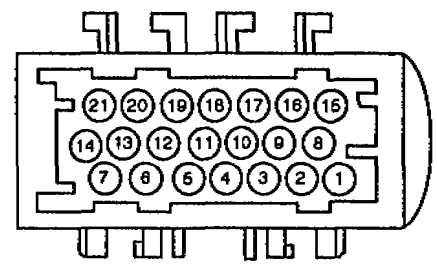


FIG. 6

B210001.00



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B200007.00

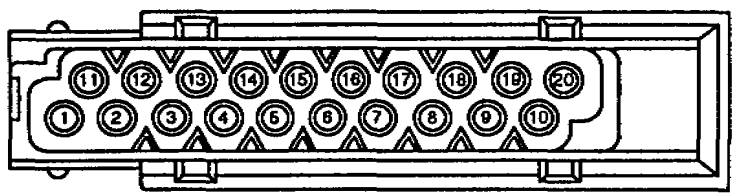


FIG. 2

B200003.00

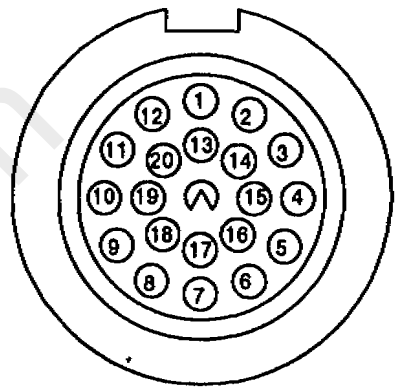


FIG. 3

B180000.01

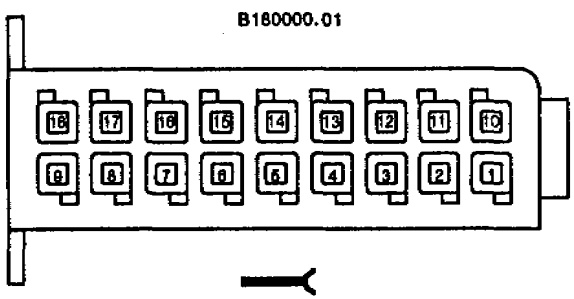


FIG. 4

B170001.00

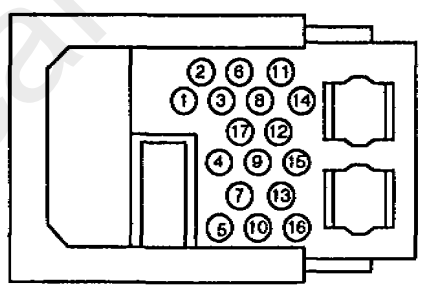
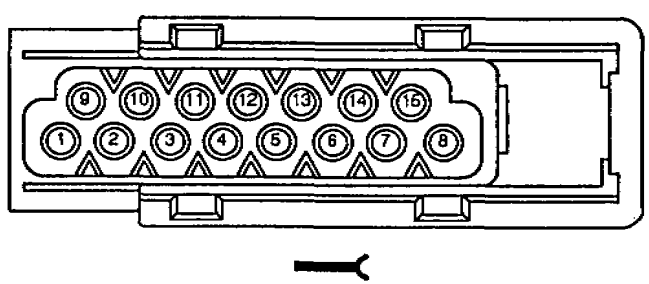


FIG. 5

B150002.00



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B130002.00

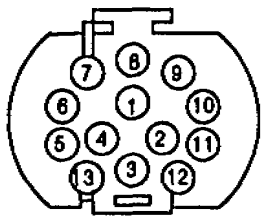


FIG. 2

B120009.00

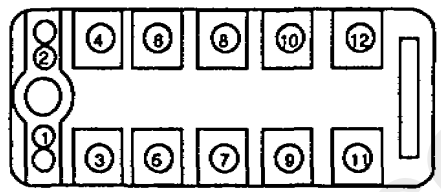


FIG. 3

B120015.02

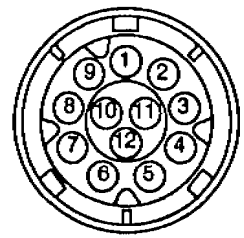


FIG. 4

B120013.00

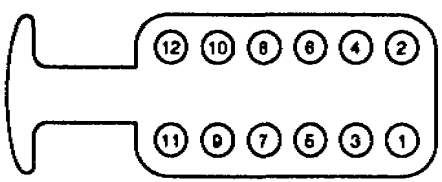


FIG. 5

B120011.01

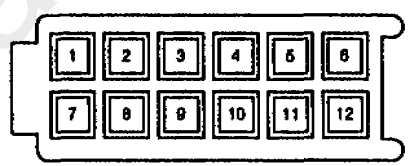
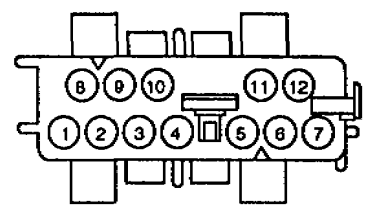


FIG. 6

B120005.00



cardiagn.com

FIG. 1

B120002.02

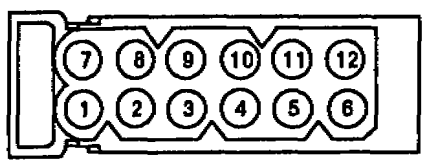


FIG. 2

B120006.00

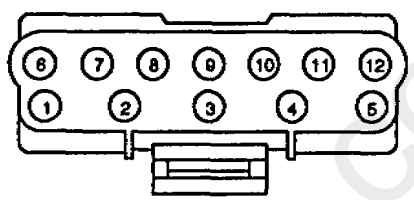


FIG. 3

B120004.05

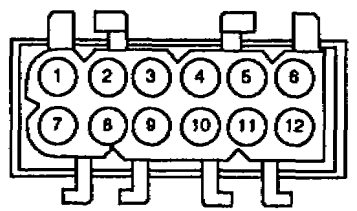


FIG. 4

B120008.00

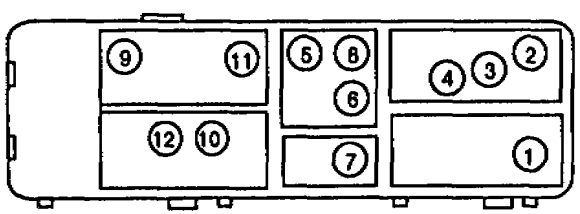


FIG. 5

B100004.01

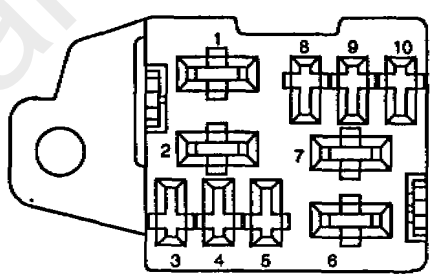
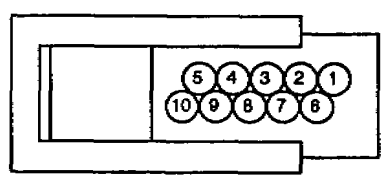


FIG. 6

B100007.00



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B100009.00

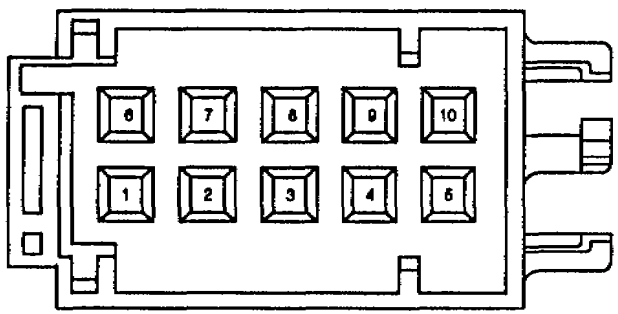


FIG. 2

B100010.00

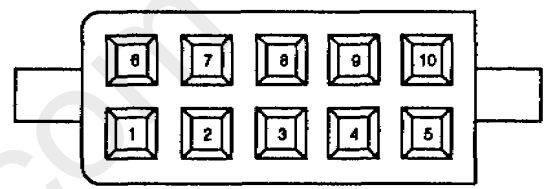


FIG. 3

B100008.00

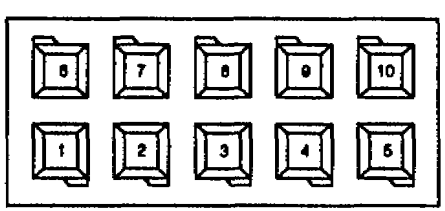


FIG. 4

B090001.00

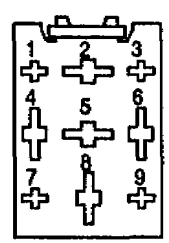
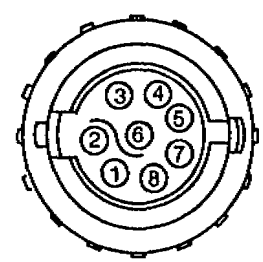


FIG. 5

B080003.01



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B080005.00

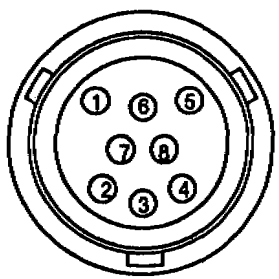


FIG. 2

B080006.00

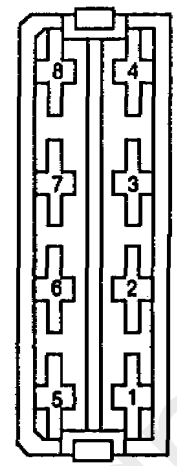


FIG. 3

B080001.01

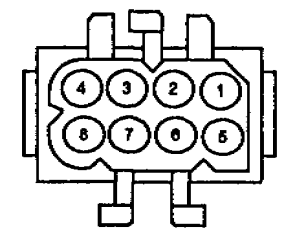


FIG. 4

B080002.00

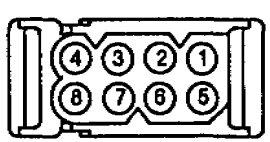


FIG. 5

B070005.01

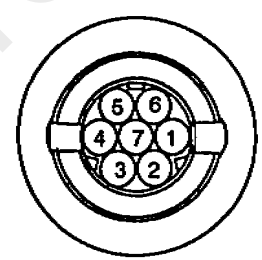
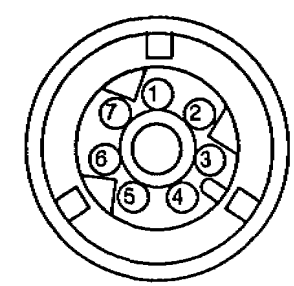


FIG. 6

B070007.02



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B060006.00

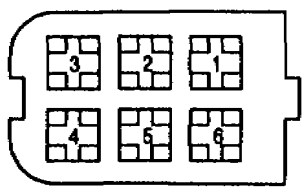


FIG. 2

B060035.03

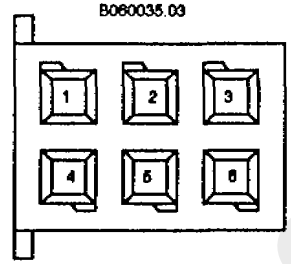


FIG. 3

B060038.00

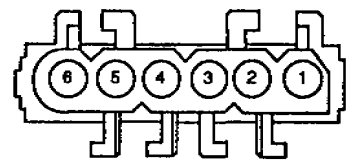


FIG. 4

B060016.00

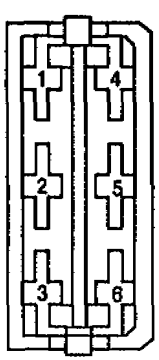


FIG. 5

B060009.00

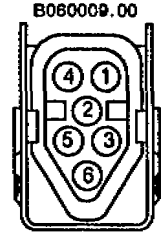
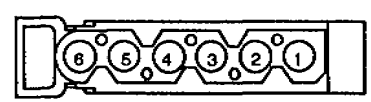


FIG. 6

B060017.00



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B060010.01

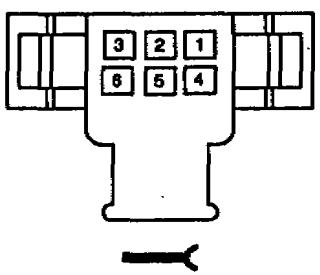


FIG. 2

B060005.013

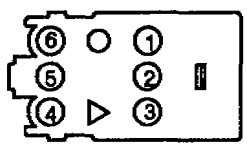


FIG. 3

B060023.00

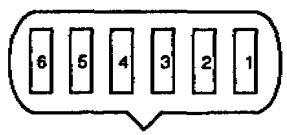


FIG. 4

B050005.00

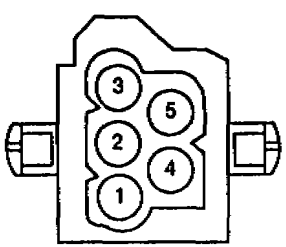


FIG. 5

B050003.00

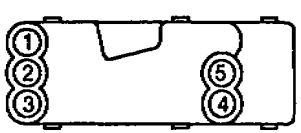
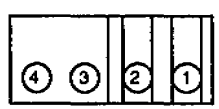


FIG. 6

B040009.00



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B040021

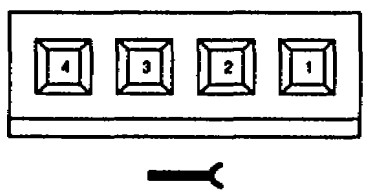


FIG. 2

B040004.00

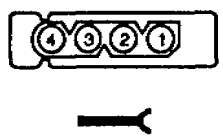


FIG. 3

B040002.00

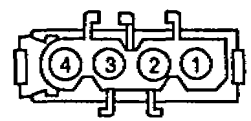


FIG. 4

B040017.01

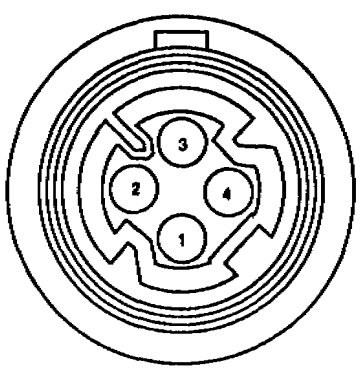


FIG. 5

B040013

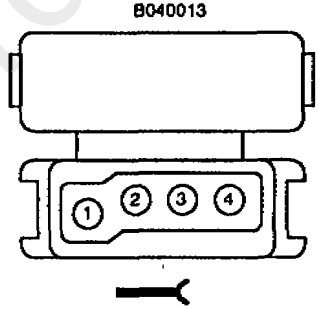
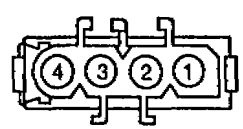


FIG. 6

B040002.04



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B040018.04

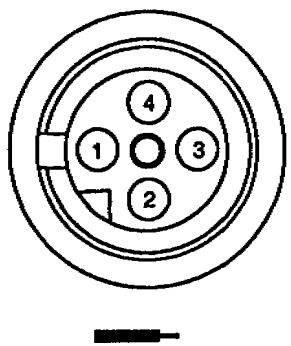


FIG. 2

B040015.00

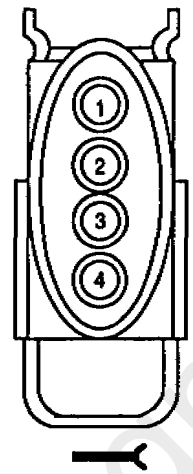


FIG. 3

B040003.00

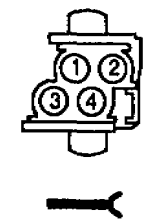


FIG. 4

B030041.00

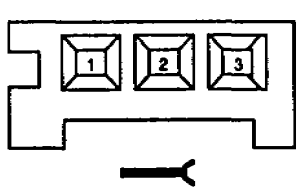


FIG. 5

B030024

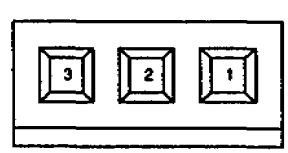
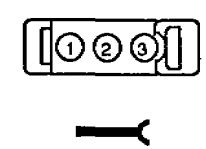


FIG. 6

B030003.04



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B030015.00

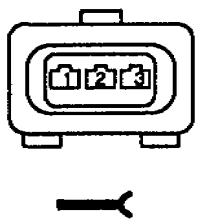


FIG. 2

B030001.00

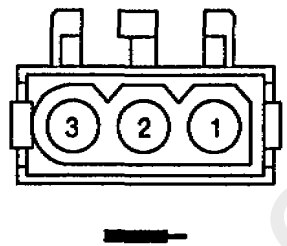


FIG. 3

B030027.00

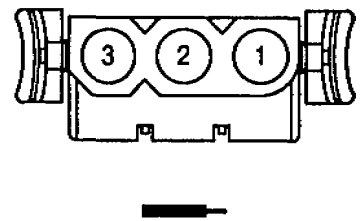


FIG. 4

B030022.00

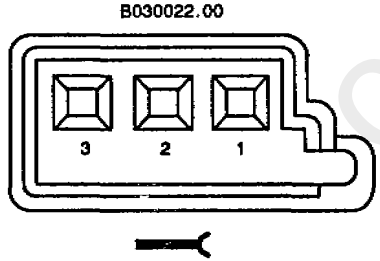
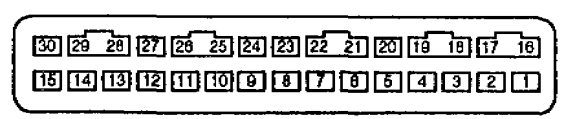


FIG. 5

B300003.00



cardiagn.com

CONNECTOR VIEWS

FIG. 1

B030037.00

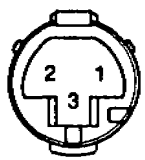


FIG. 2

B120016.00

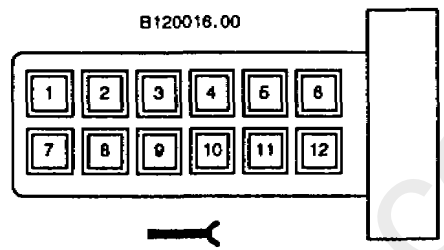


FIG. 3

B080019.00

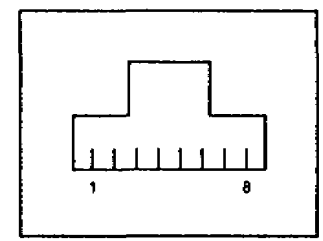


FIG. 4

B250003.00

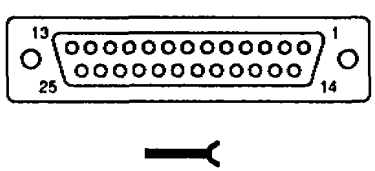


FIG. 5

B160001.00

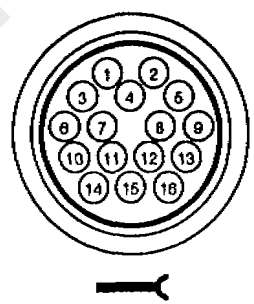
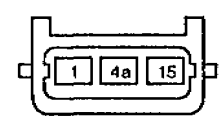


FIG. 6

B030015.12



cardiagn.com

carldiagn.com