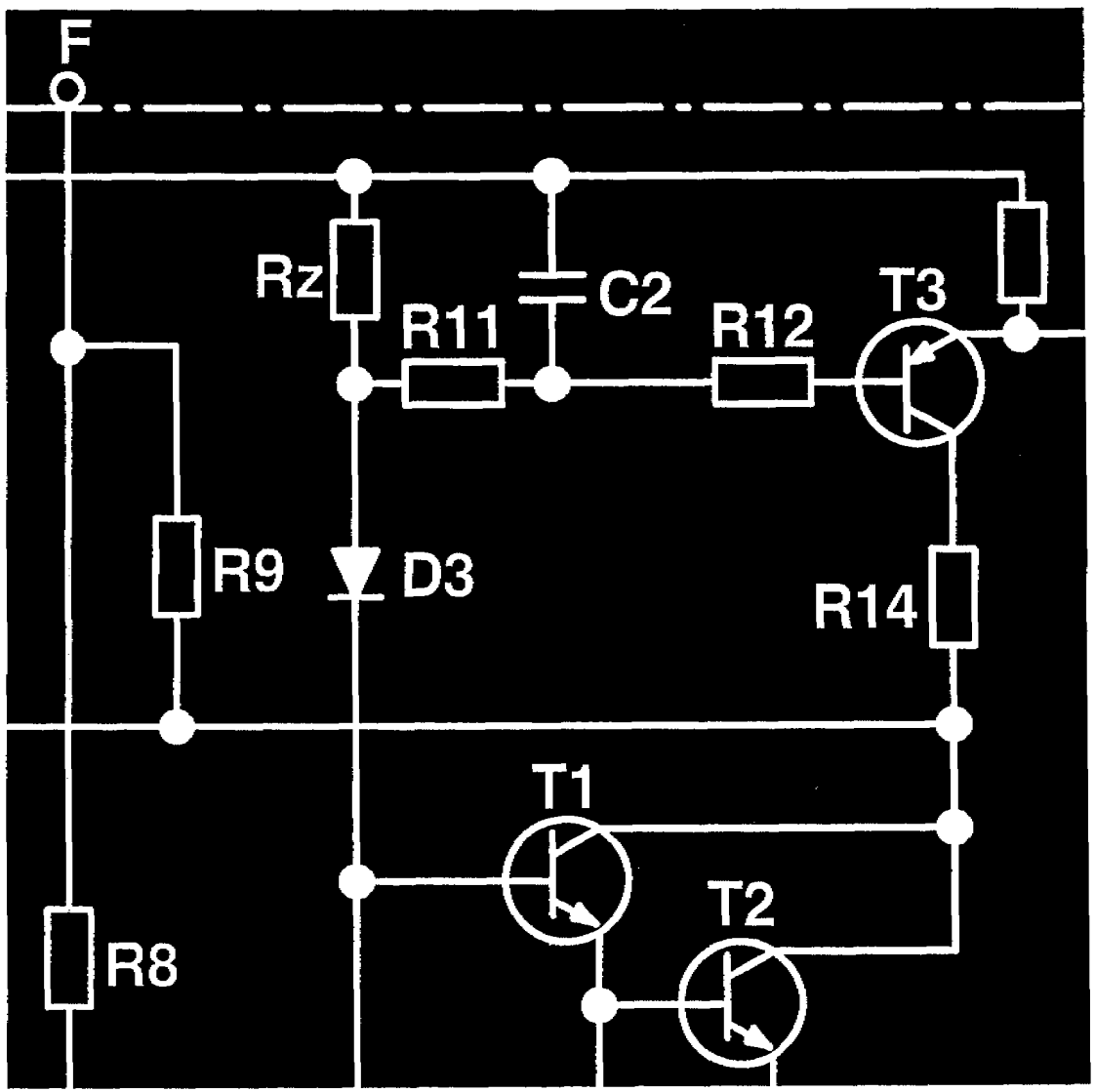


1994

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

Electrical Troubleshooting Manual

Vehicles Produced 9/93 to 8/94

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BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

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

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TELEPHONE TRANSCEIVER, H38 ..... 6561.0-00
TEMPERATURE SWITCH, S36 ..... 6450.4-06
THROTTLE FLAP HEATER, E104 ..... 3450.2-02
THROTTLE POSITION SENSOR, R6252 ..... 1210.9-05
TRANSMISSION CONTROL MODULE (EGS), A7000 ..... 2460.4-00
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.2-00
TRANSMISSION POSITION INDICATOR LIGHT, E82 ..... 2460.2-03
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.2-01
TRANSMISSION VALVE UNIT, Y8505y 2460.4-01
TRUNK COMPARTMENT LIGHT, E32 ..... 6320.0-00
TRUNK COMPARTMENT LIGHT, LEFT, E101 ..... 6320.0-00
TRUNK COMPARTMENT LIGHT, RIGHT, E102 ..... 6320.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, LEFT, E46 ..... 6581.2-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6312.0-04
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6313.0-02
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6314.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6322.0-00
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6325.0-01
TRUNK LIGHT ASSEMBLY, RIGHT, E47 ..... 6581.2-04
TRUNK LID MICRO SWITCH, S213 ..... 5430.0-02
TRUNK LID RELAY, K117 ..... 5126.0-01
TRUNK LIGHT SWITCH, S61y 6320.0-00
TRUNK LOCK MOTOR, M17 ..... 5126.2-01
TURN/HAZARD LIGHTS 6313.0-00
TURN LIGHT, LEFT FRONT, H7 ..... 6313.0-02
TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
TWIN RELAY MODULE, N21 ..... 6160.1-01

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

Schematics

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

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

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

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

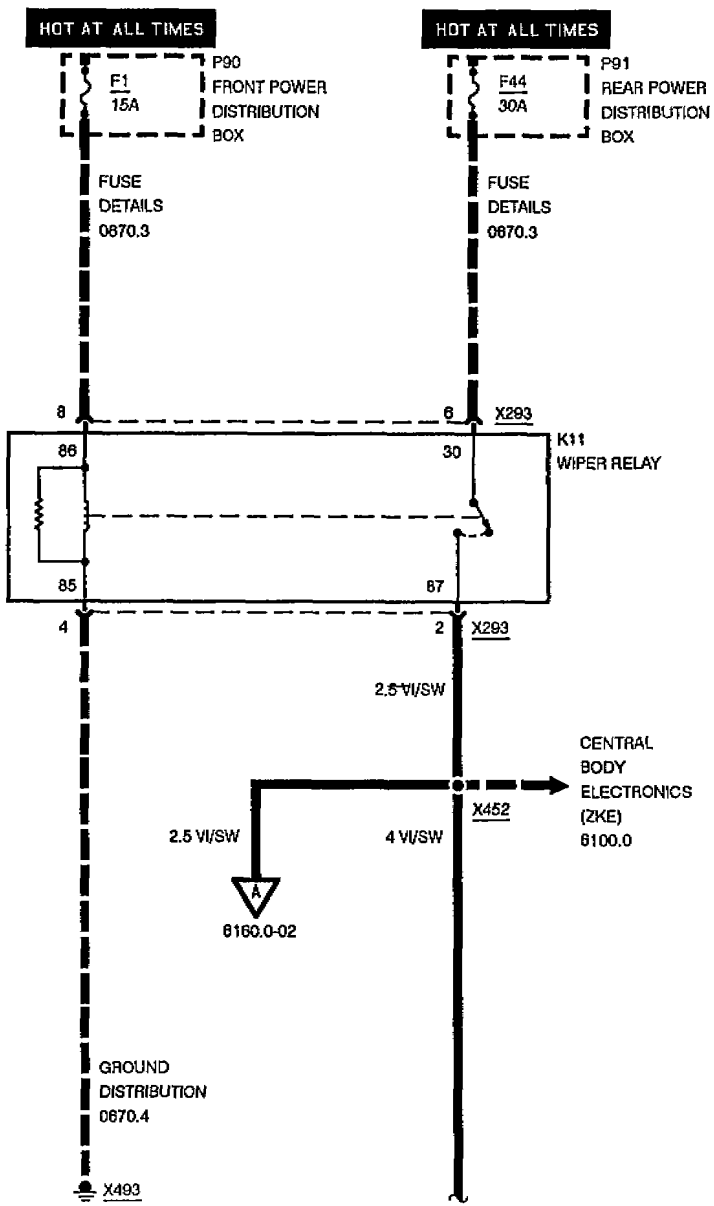
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

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

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

Example

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



General Conventions

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

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

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

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

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

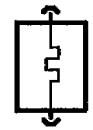
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE).** An interrupted line with an arrow indicates that only this one wire leads to another circuit.

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

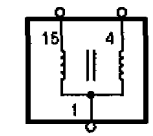
8. The interrupted line from splice X452 with an A in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.

SYMBOLS


BATTERY


HEATING ELEMENT


VARIABLE RESISTANCE SENSOR
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



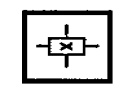
IGNITION COIL


CONTROL/POWER ELECTRONICS


FUSE DETAILS


LOUDSPEAKER OR HORN


VARIABLE RESISTOR
RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE


HALL EFFECT SENSOR


FUSIBLE LINK


LIGHT

DIODE
CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW


RADIO


THERMO SWITCH



PERMANENT MAGNET MOTOR
ONE SPEED


ZENER DIODE
TO REGULATE VOLTAGE



TRANSISTORIZED SWITCH

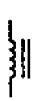
SOLENOID



PERMANENT MAGNET MOTOR
TWO SPEEDS


LIGHT EMITTING DIODE

INDUCTIVE SENSOR


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID

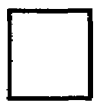

KNOCK SENSOR

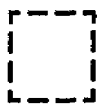

OXYGEN SENSOR

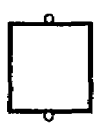


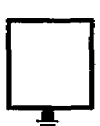
VEHICLE SPEED SENSOR

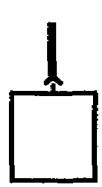
SYMBOLS

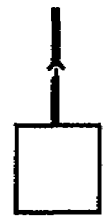

ENTIRE COMPONENT SHOWN

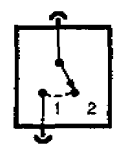

PART OF COMPONENT SHOWN


COMPONENT WITH SCREW TERMINALS

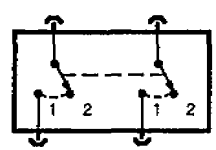

COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)


CONNECTOR ATTACHED TO COMPONENT


CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



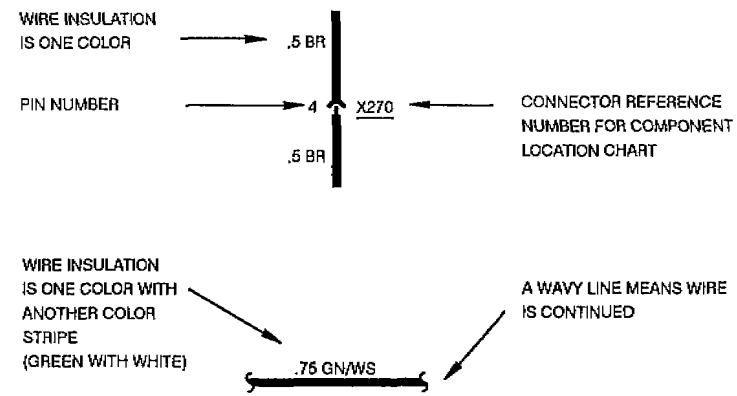
ONE POLE, TWO POSITION SWITCH

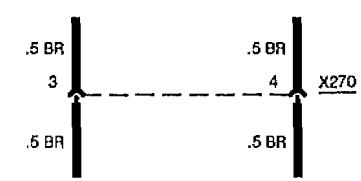


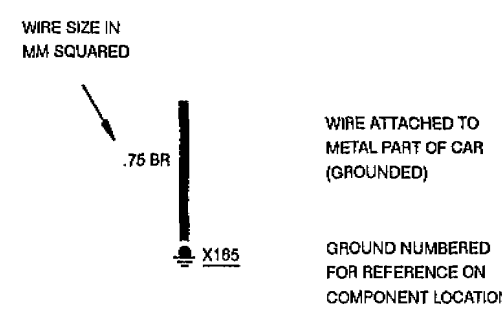
SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

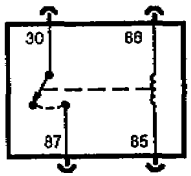
WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT



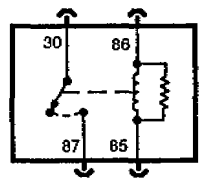




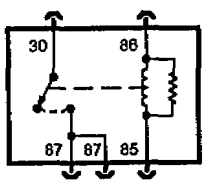
SYMBOLS



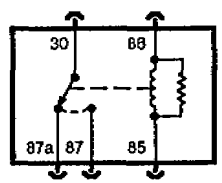
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

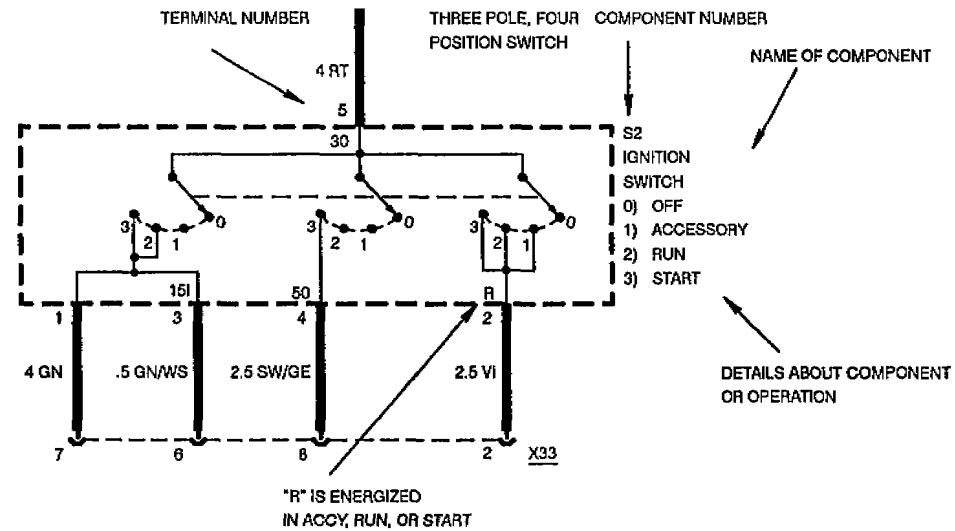


CONTACT RELAY WITH TWO OUTPUTS

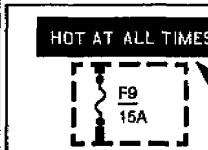


CHANGEOVER RELAY WITH TWO OUTPUTS

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



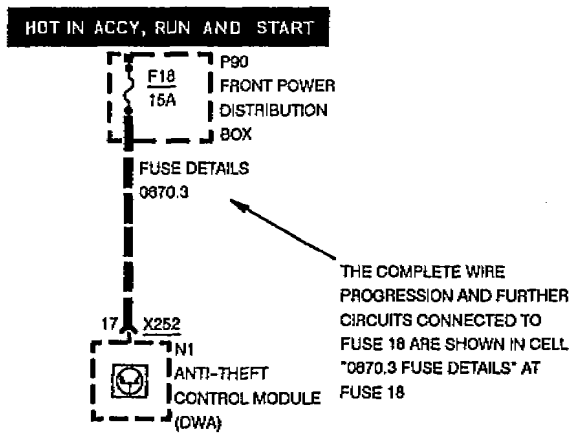
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND

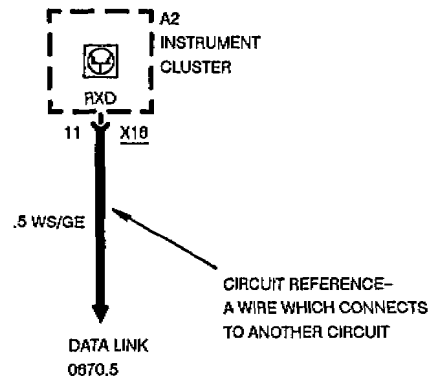


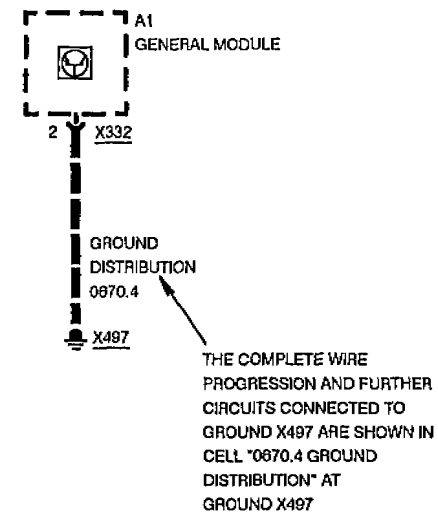
INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

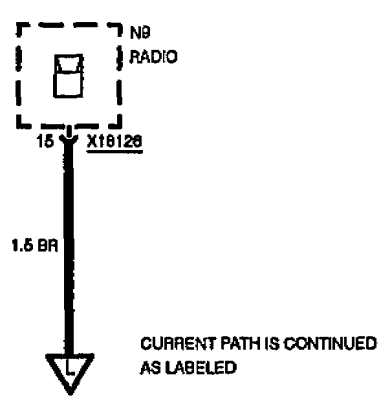
POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

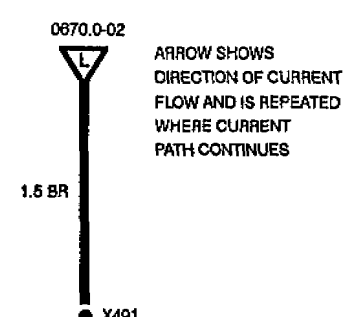
SYMBOLS

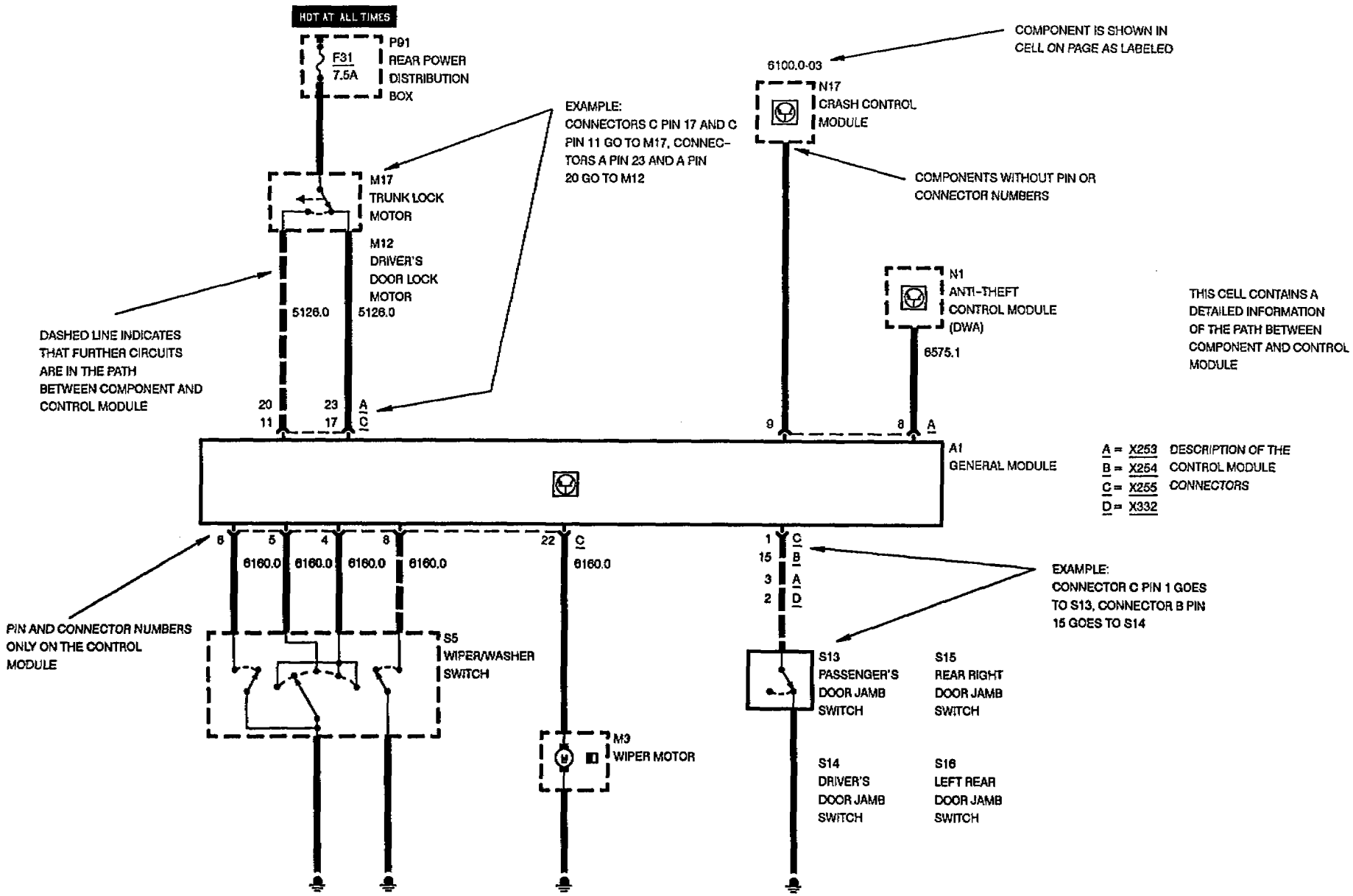

HOT IN ACCY, RUN AND START
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
FUSE DETAILS
0670.3
THE COMPLETE WIRE PROGRESSION AND FURTHER CIRCUITS CONNECTED TO FUSE 18 ARE SHOWN IN CELL "0670.3 FUSE DETAILS" AT FUSE 18
17
X252
N1
ANTI-THEFT
CONTROL MODULE
(DWA)


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


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

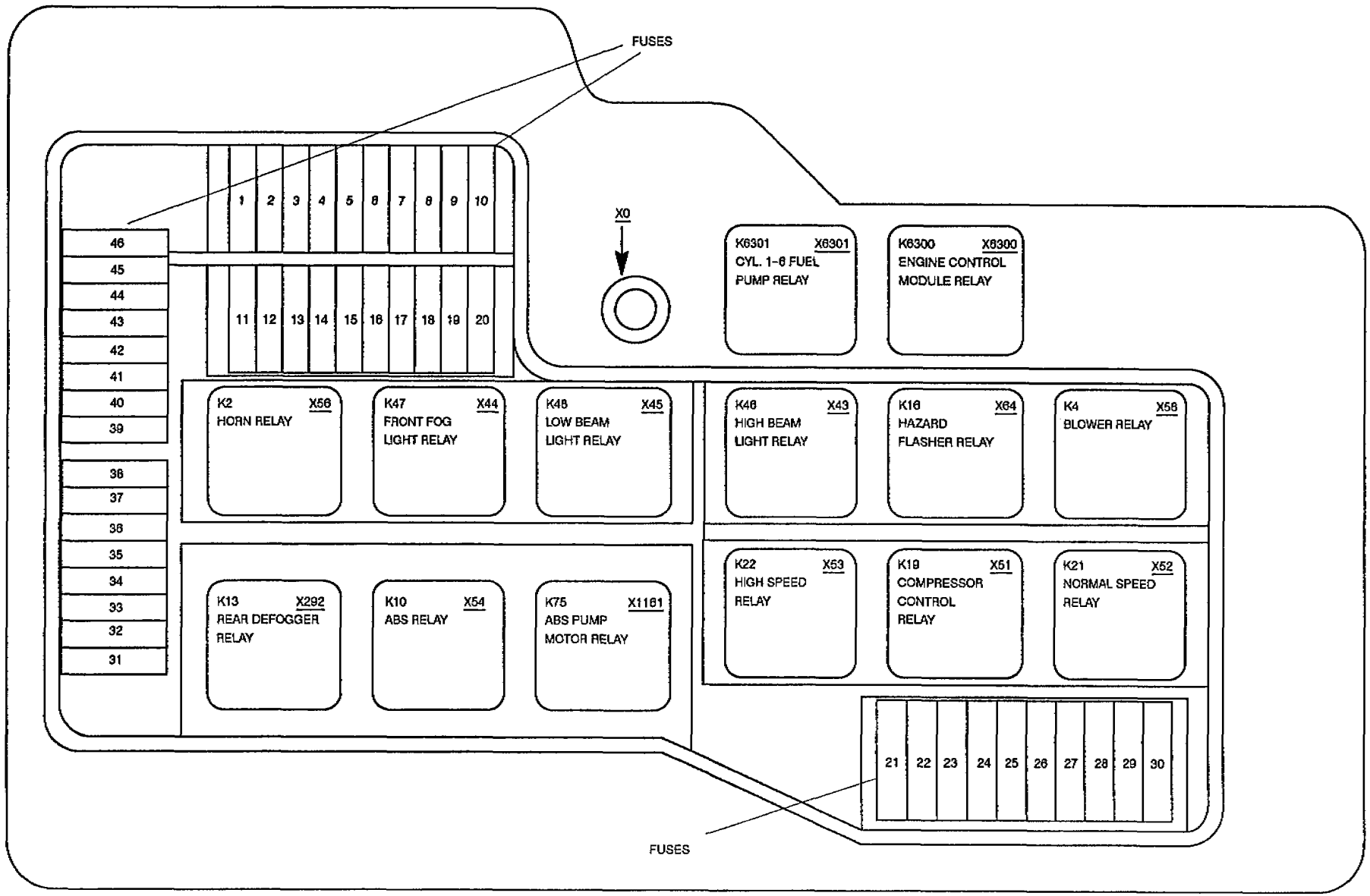

N9
RADIO
15
X18128
1.5 BR
L
CURRENT PATH IS CONTINUED
AS LABELED
0670.0-03


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


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

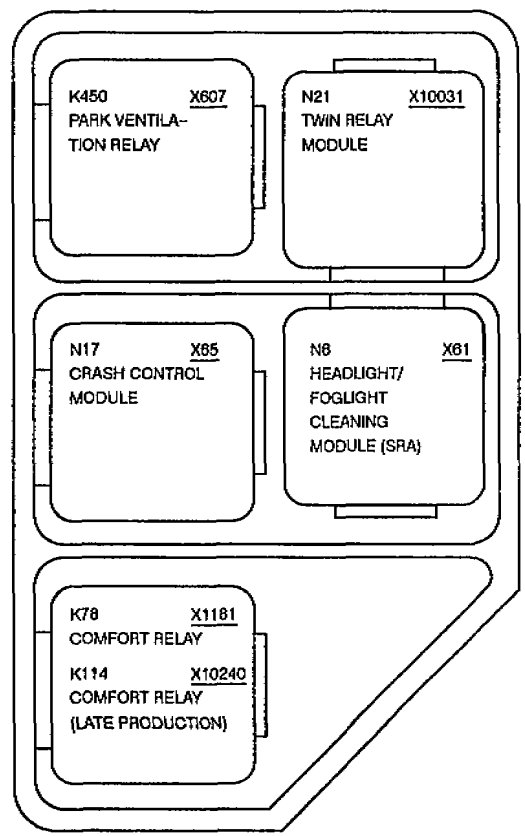
POWER DISTRIBUTION CHART

P90 FRONT POWER DISTRIBUTION BOX



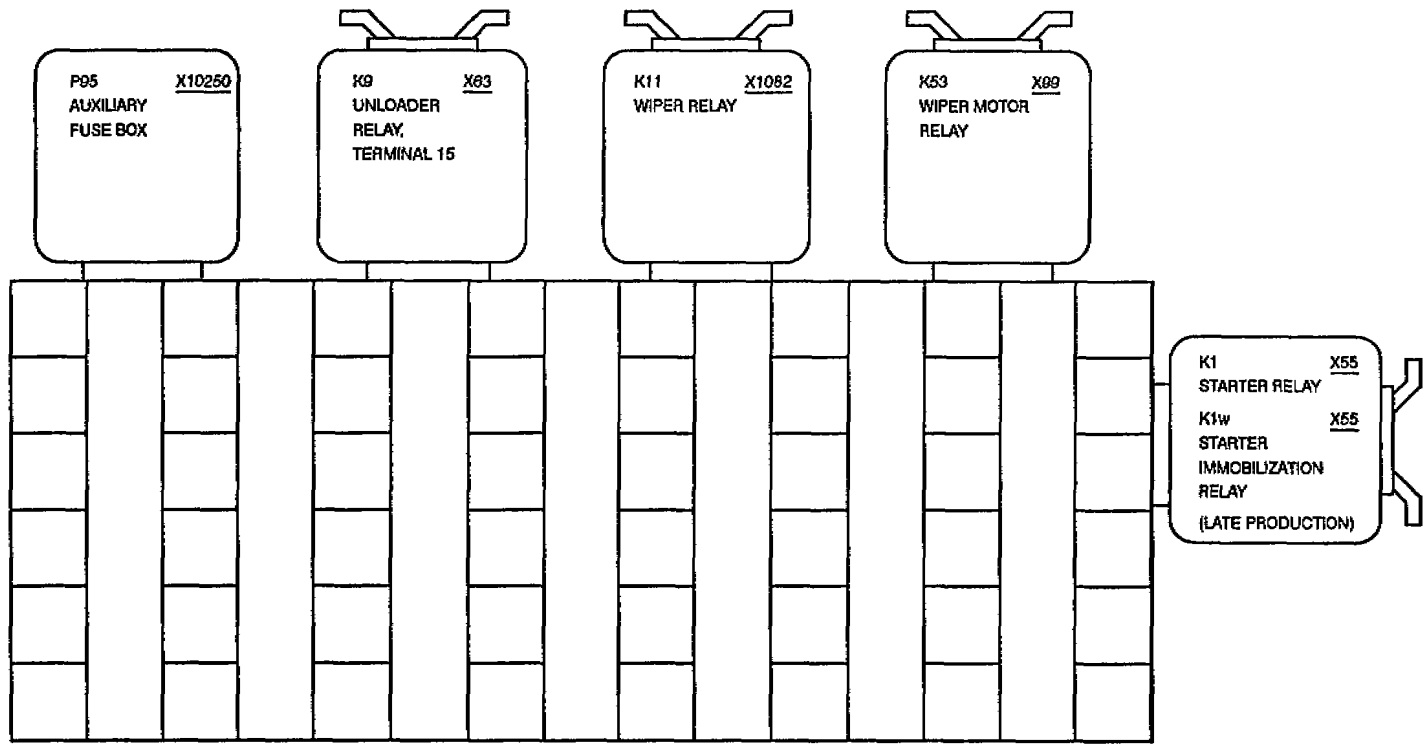
POWER DISTRIBUTION CHART

RELAY PANEL UNDER LH SIDE OF DASHBOARD



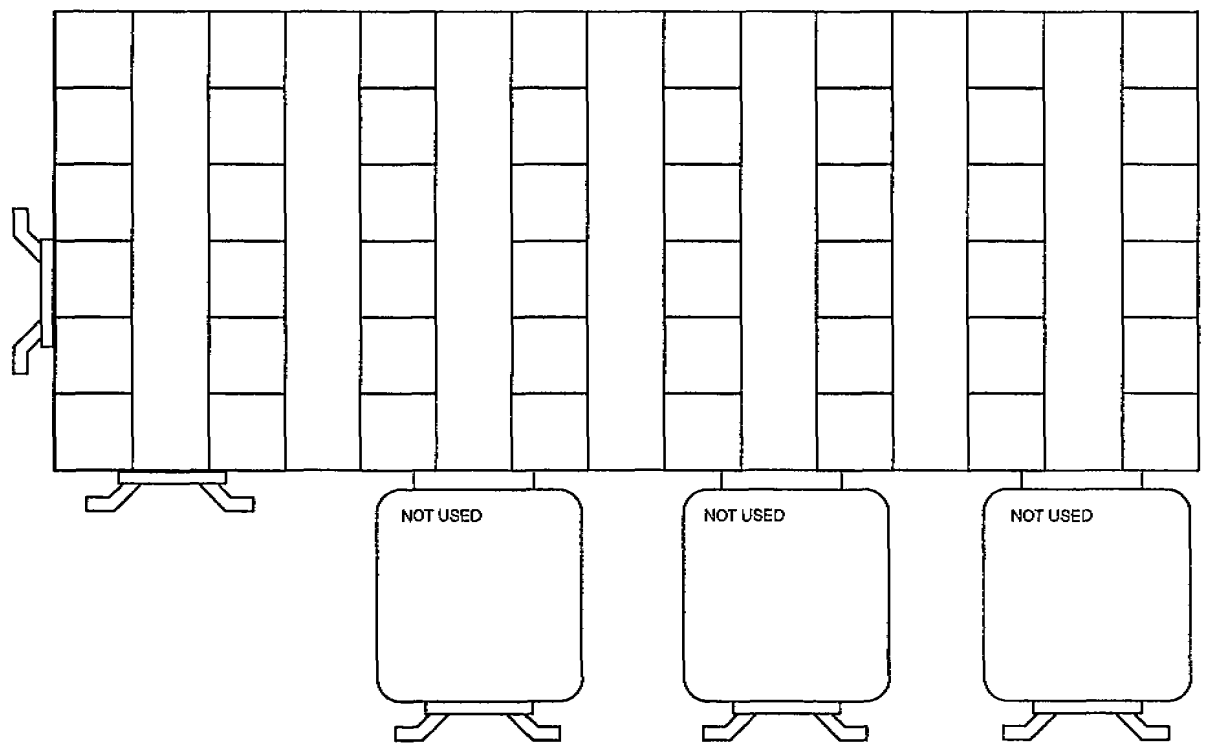
POWER DISTRIBUTION CHART

SPLICE PANEL UNDER LH SIDE OF DASHBOARD



POWER DISTRIBUTION CHART

SPLICE PANEL UNDER RH SIDE OF DASHBOARD



FUSE CHART

FUSES 1 TO 29

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

FUSE CHART

FUSES 1 TO 29

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

FUSE CHART

FUSES 1 TO 29

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

FUSE CHART

FUSES 30 TO 47

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

FUSE CHART

FUSES 30 TO 47

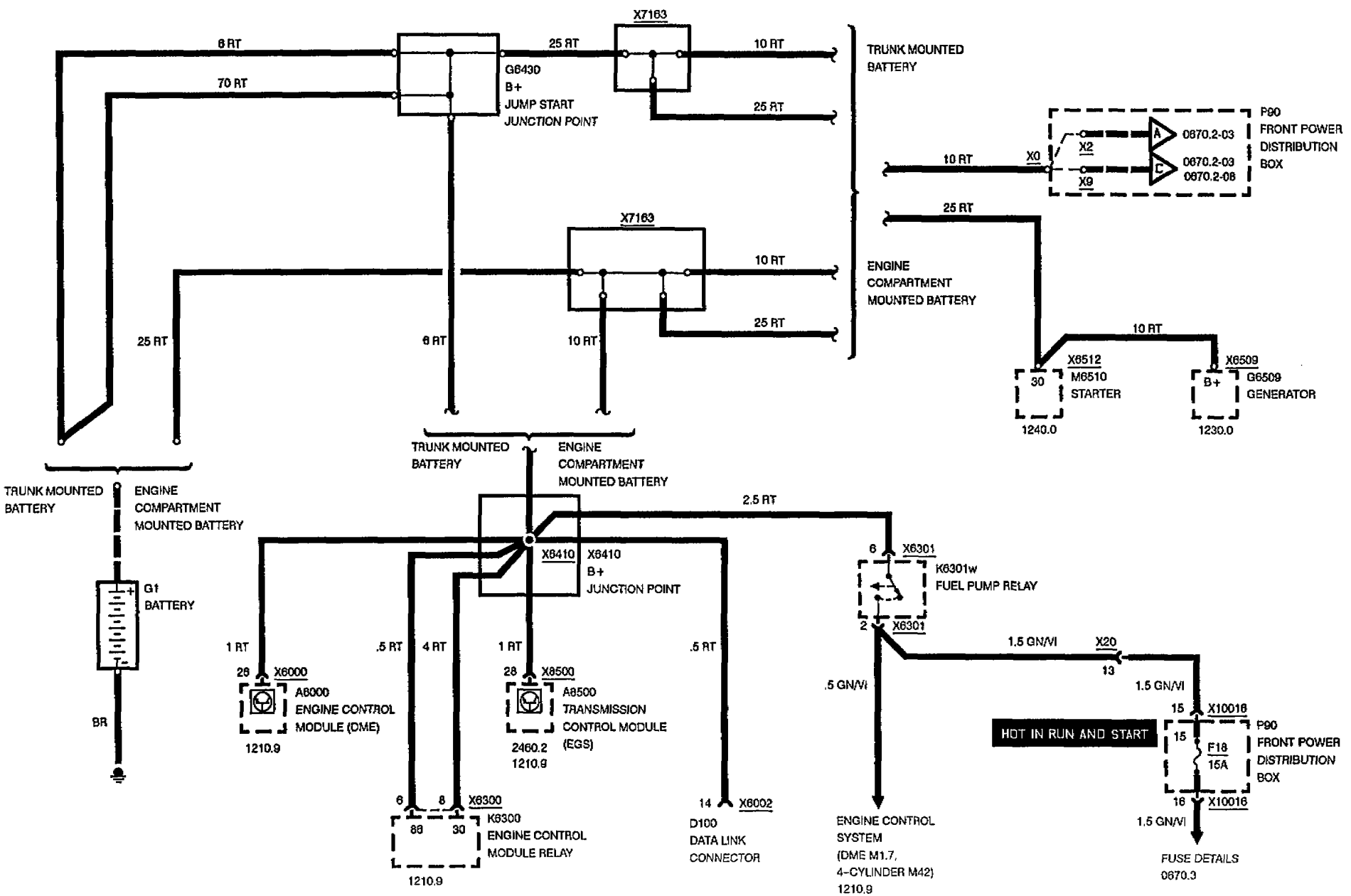
		FUSE NUMBER																
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A
6133.0	HORN																		
6160.1	WIPER/WASHER MODULE (WWM)							●								●	●		
6167.1	HEADLIGHT WASHER (SRA)																		
6169.0	WINDSHIELD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

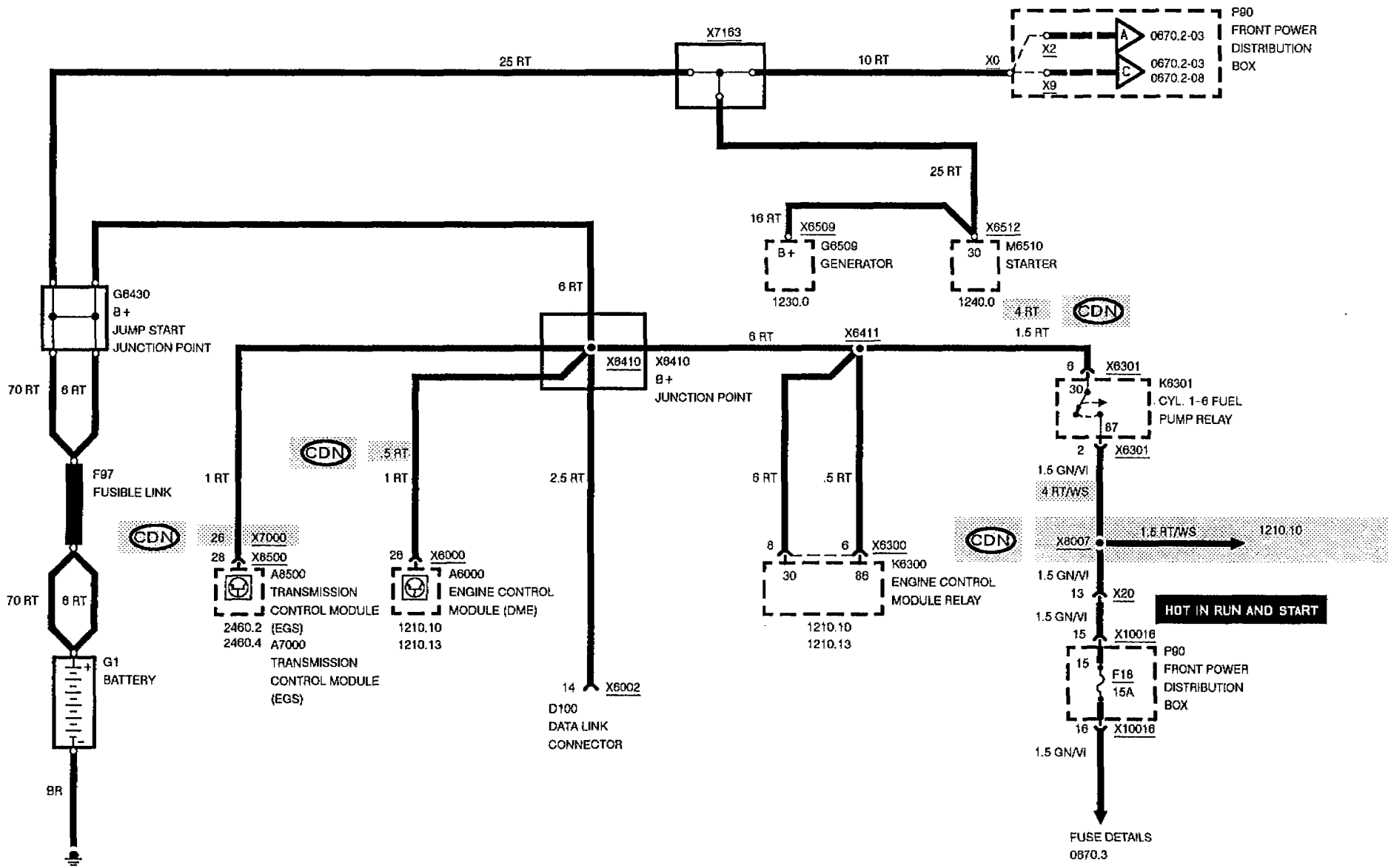
BMW 3

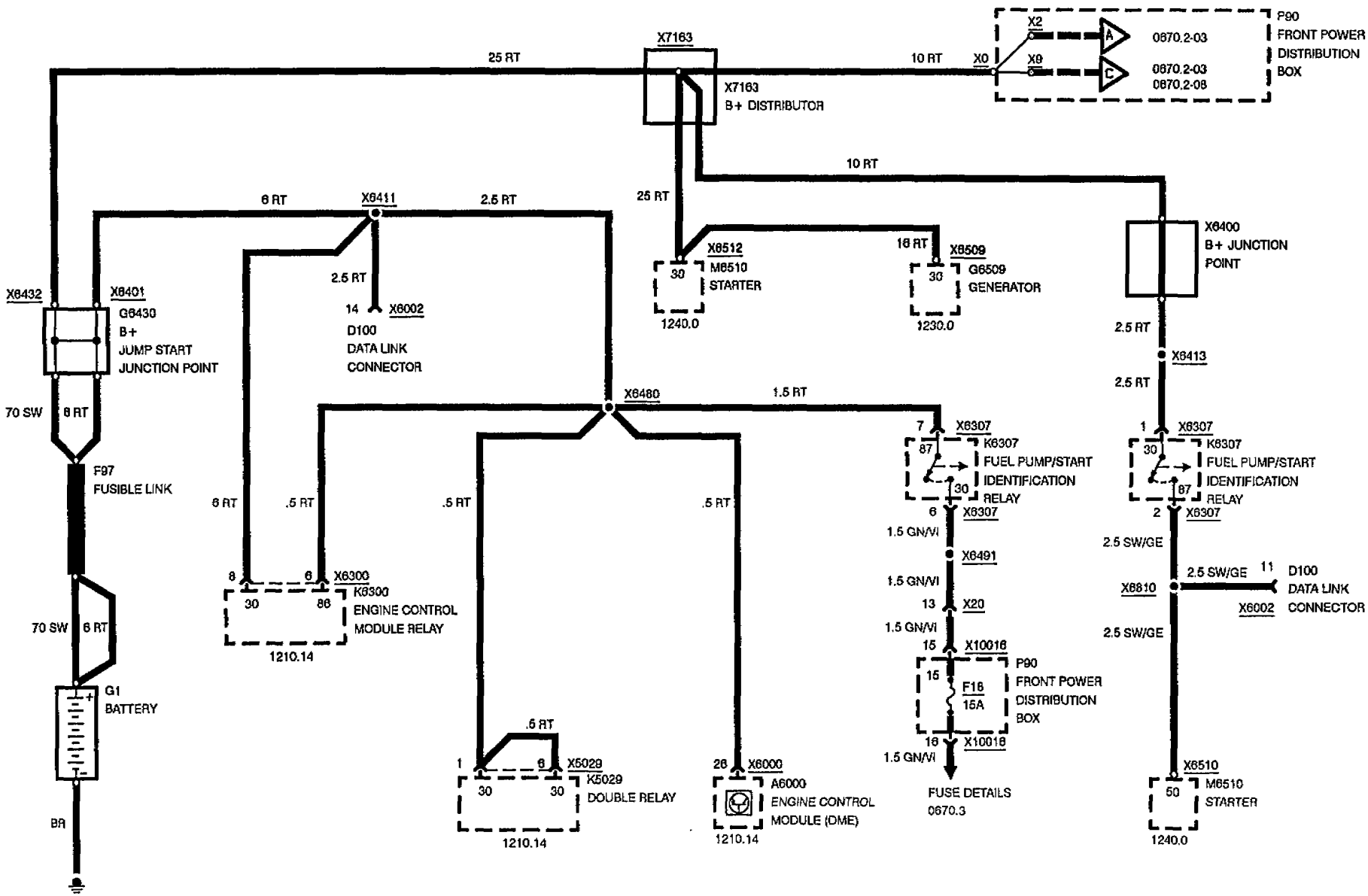
FUSE CHART

FUSES 30 TO 47

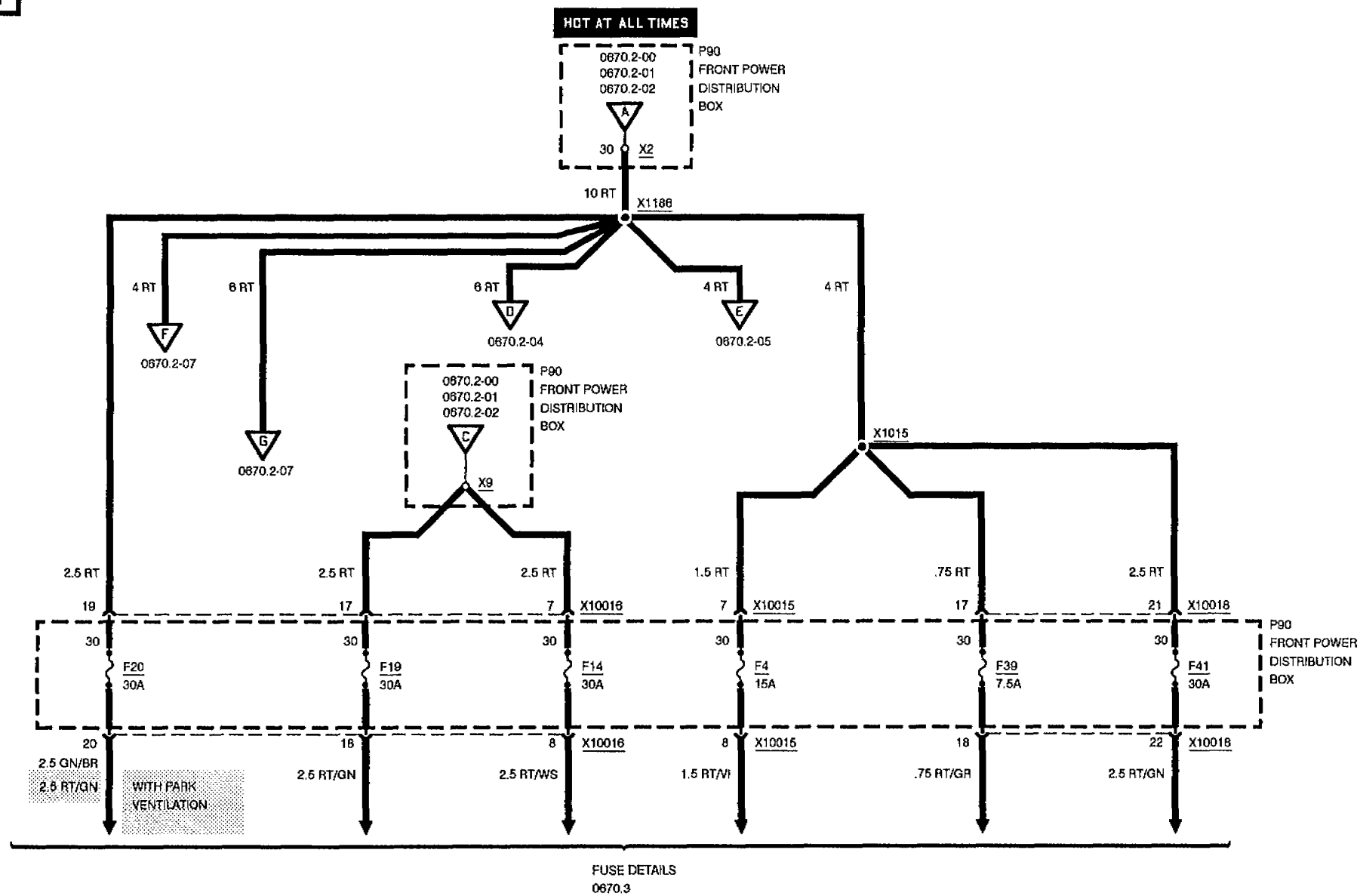
		FUSE NUMBER																
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
		7.5A	5A	30A	10A	15A	25A	30A	10A	30A	7.5A	30A	30A	7.5A	5A	15A	7.5A	15A	15A
6510.0	RADIO/ CD PLAYER (PROVISIONS)				●											●			
6510.1	RADIO/HIFI				●											●			
6561.0	CELLULAR TELEPHONE (PROVISIONS)				●		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


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

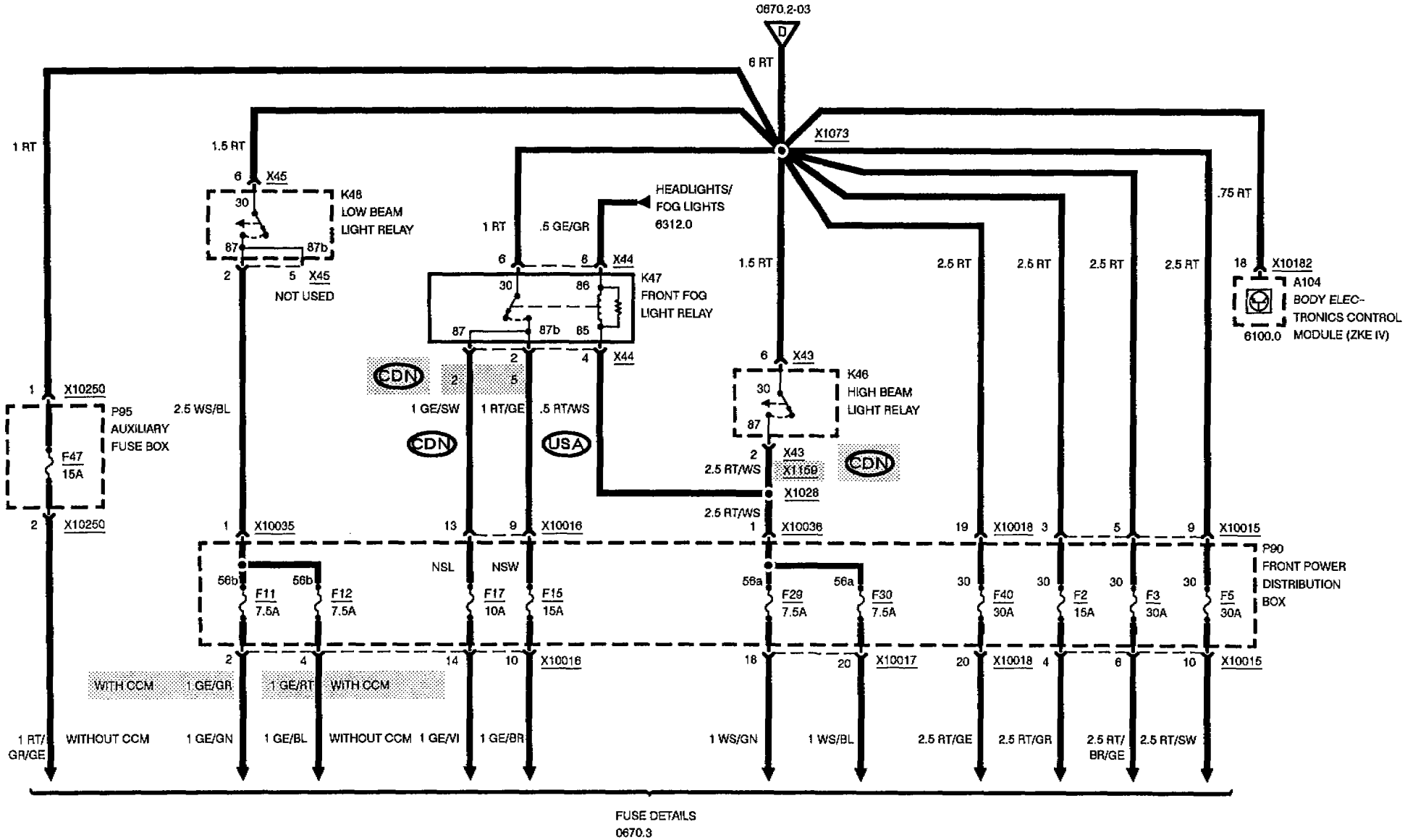

X7163
25 RT
10 RT
X0
X2
X9
A
C
0670.2-03
0670.2-03
0670.2-08
P80
FRONT POWER
DISTRIBUTION
BOX
25 RT
16 RT
X6509
B+
G6509
GENERATOR
1230.0
X6512
30
M6510
STARTER
1240.0
4 RT
1.5 RT
CDN
G6430
B+
JUMP START
JUNCTION POINT
6 RT
X8410
X8410
B+
JUNCTION POINT
6 RT
X6411
6
X6301
30
87
K6301
CYL. 1-6 FUEL
PUMP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


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

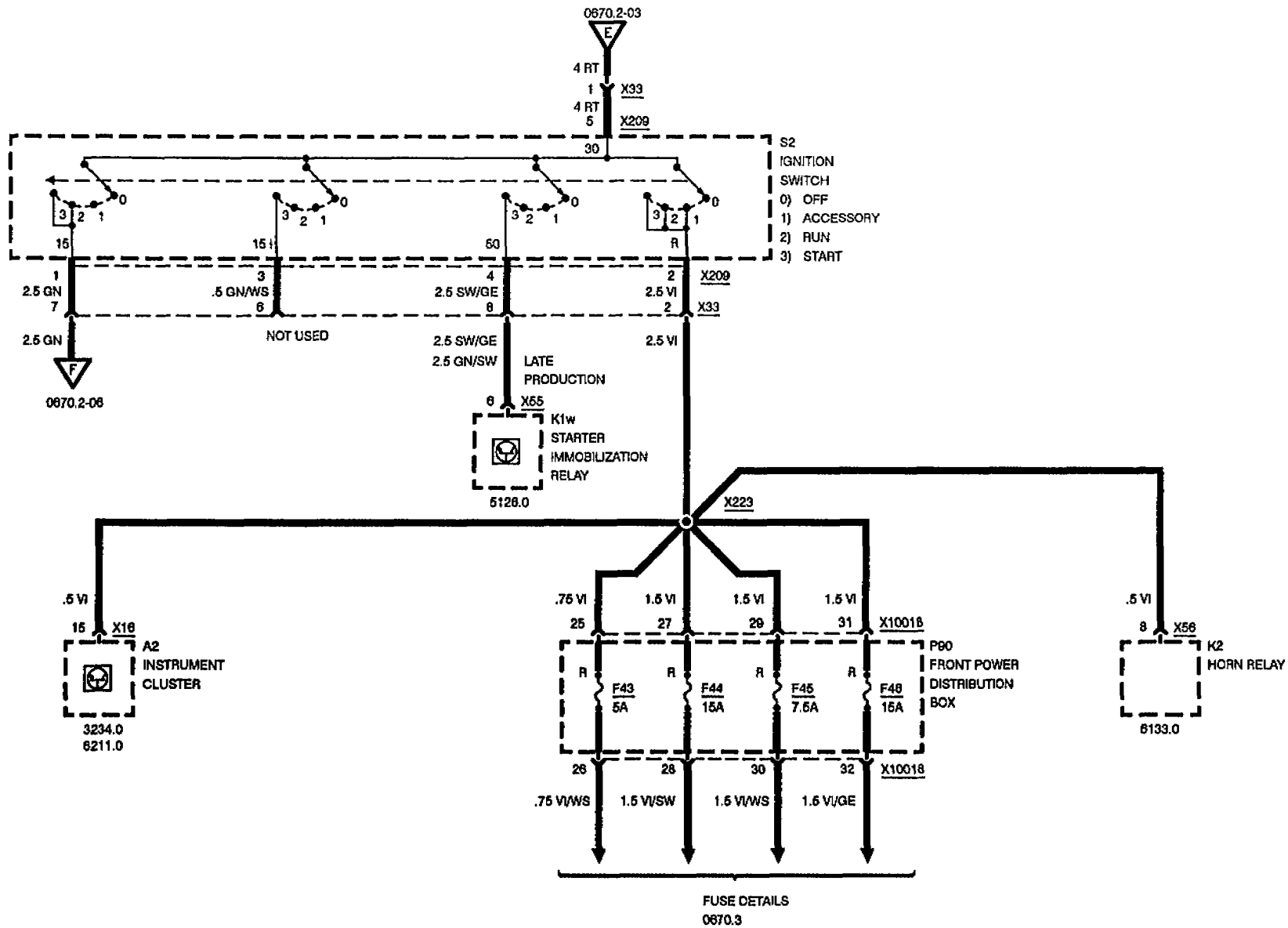
POWER DISTRIBUTION



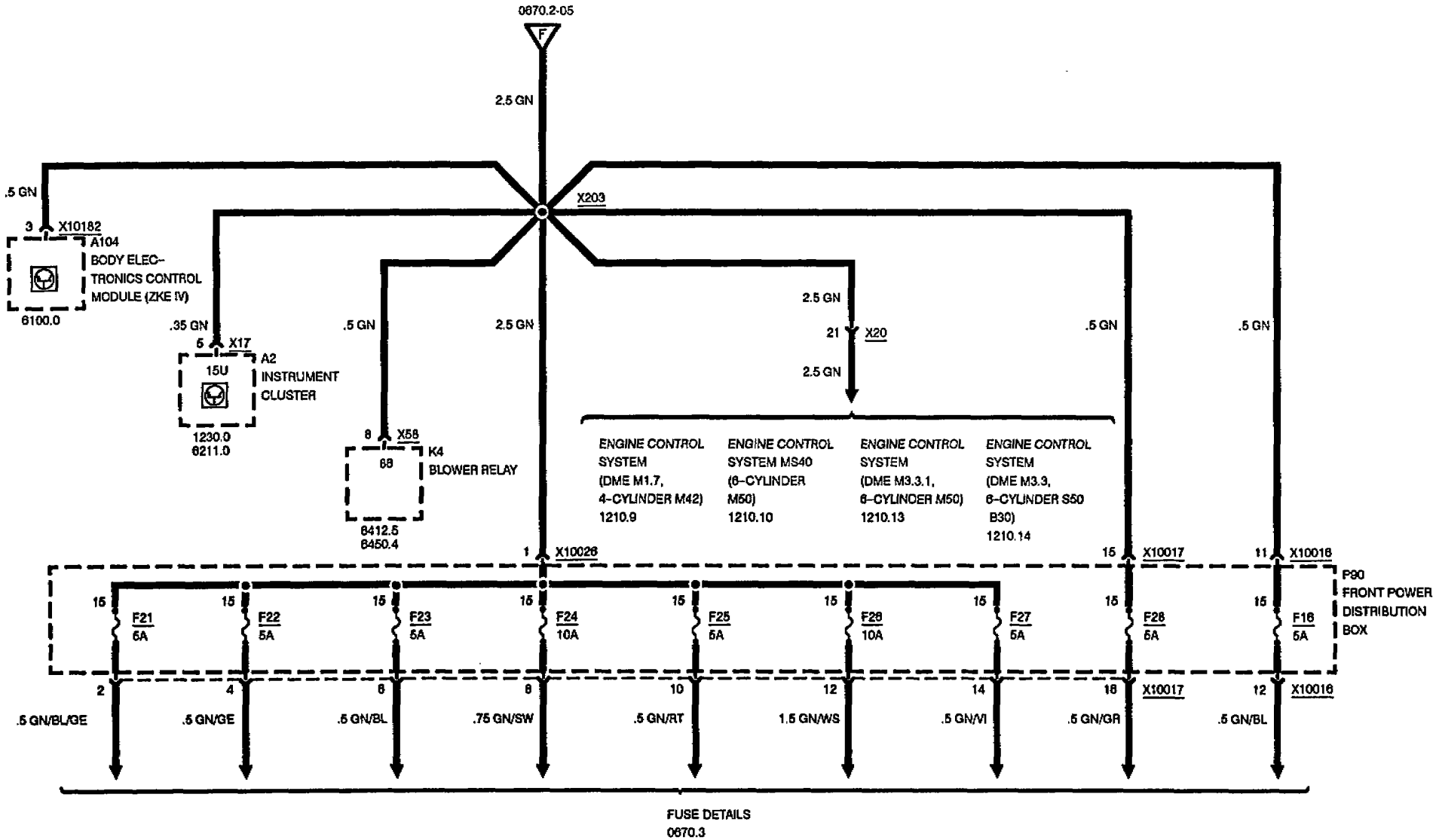
POWER DISTRIBUTION



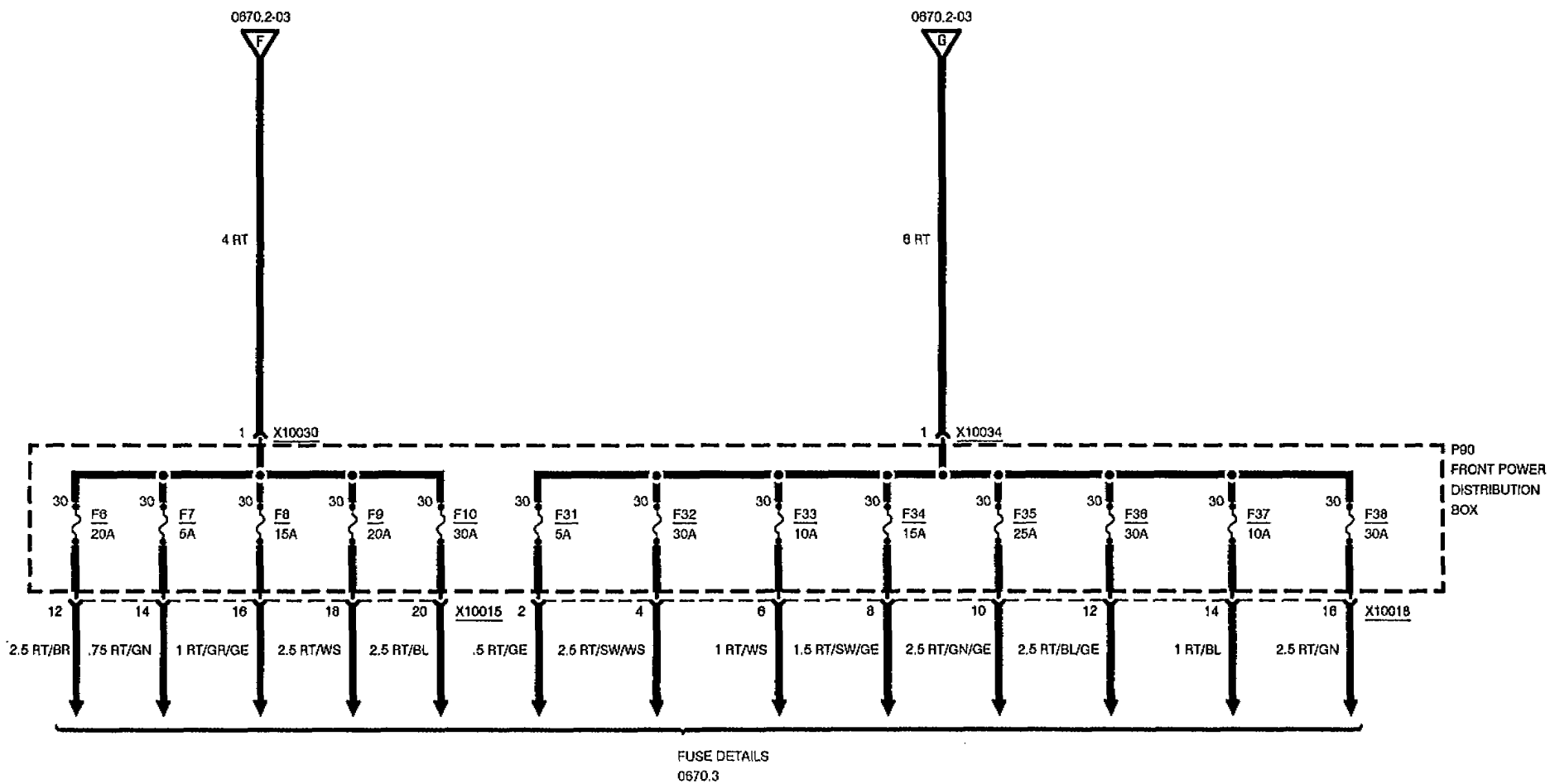
POWER DISTRIBUTION

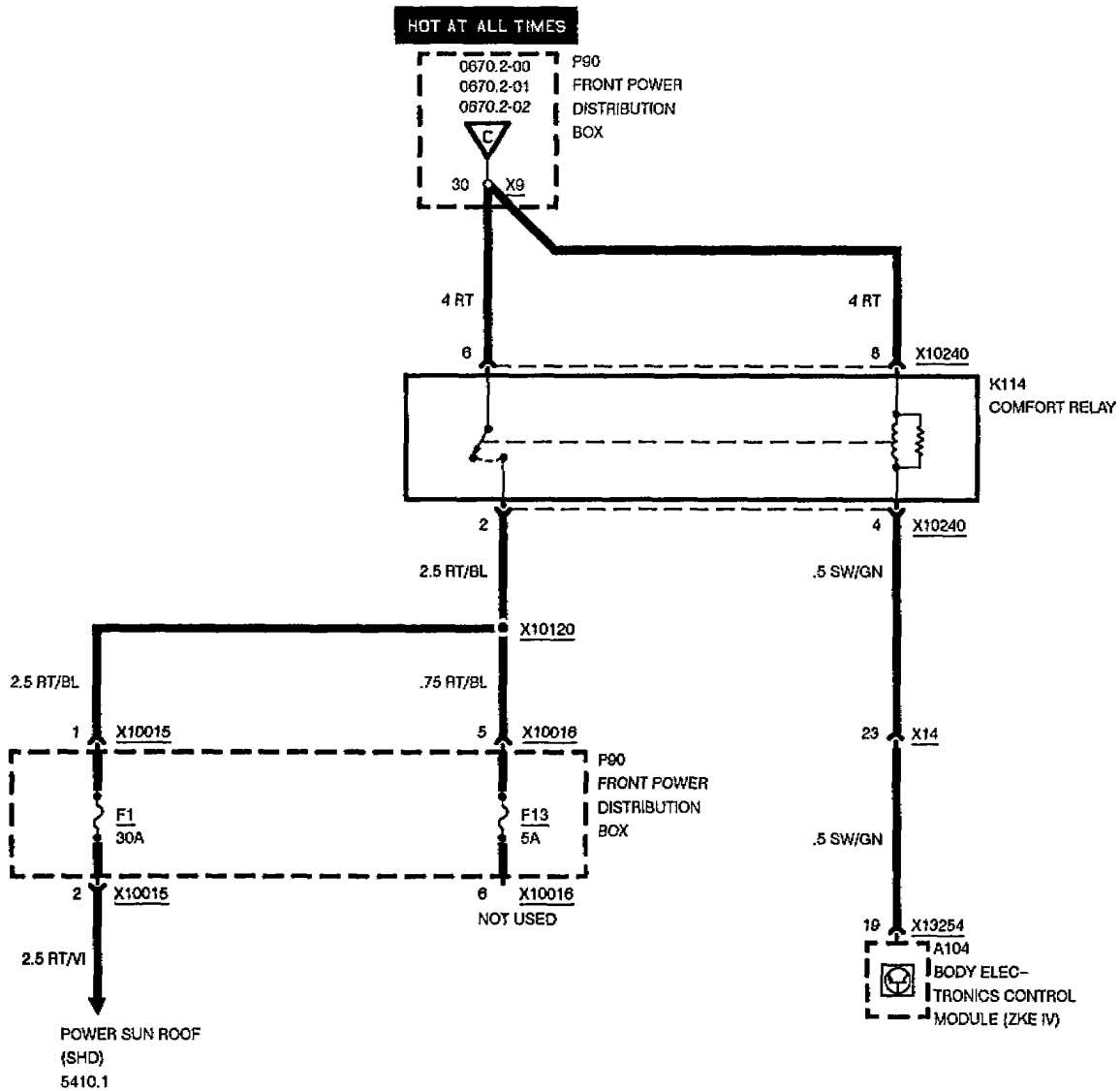


POWER DISTRIBUTION



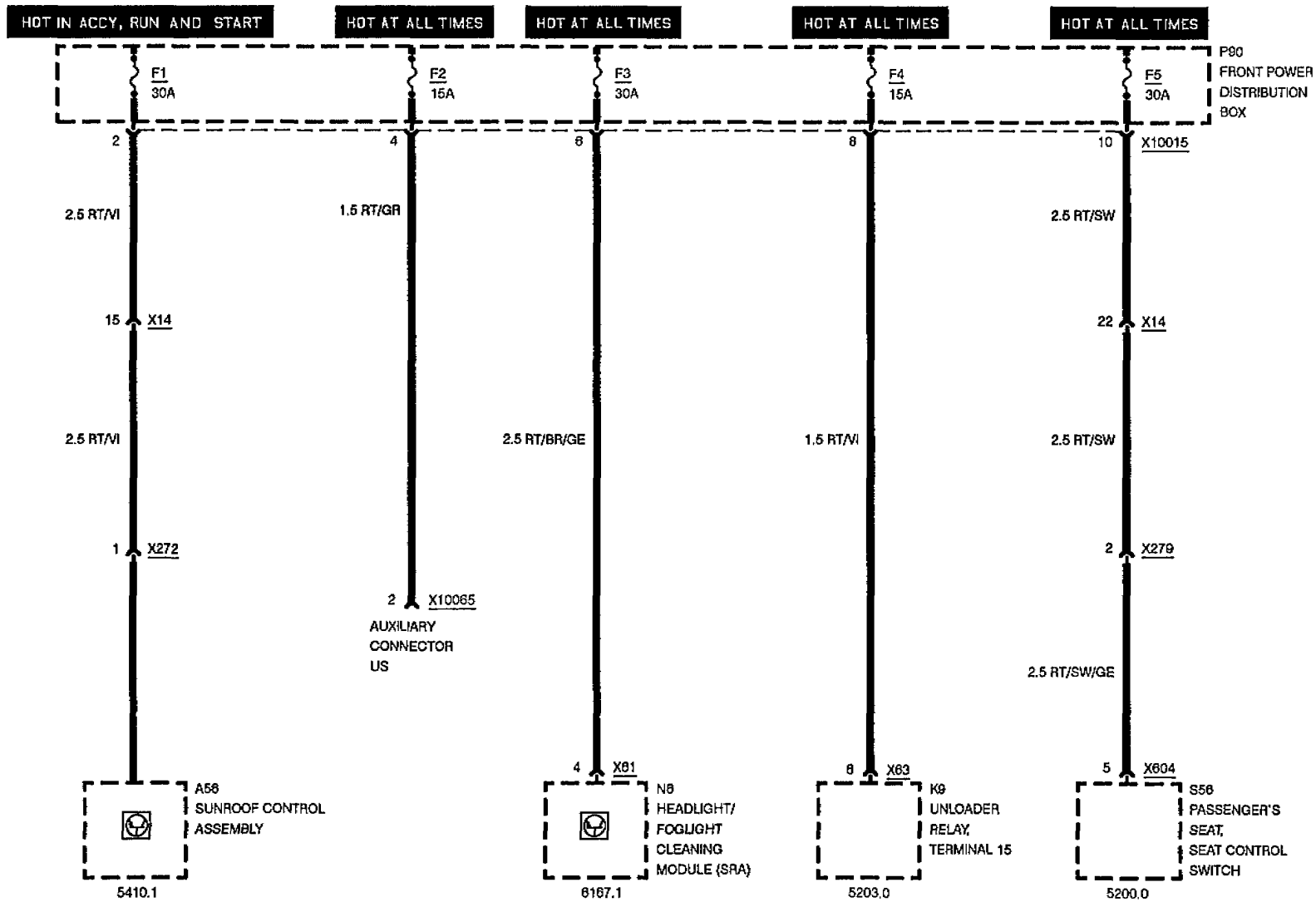
POWER DISTRIBUTION




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

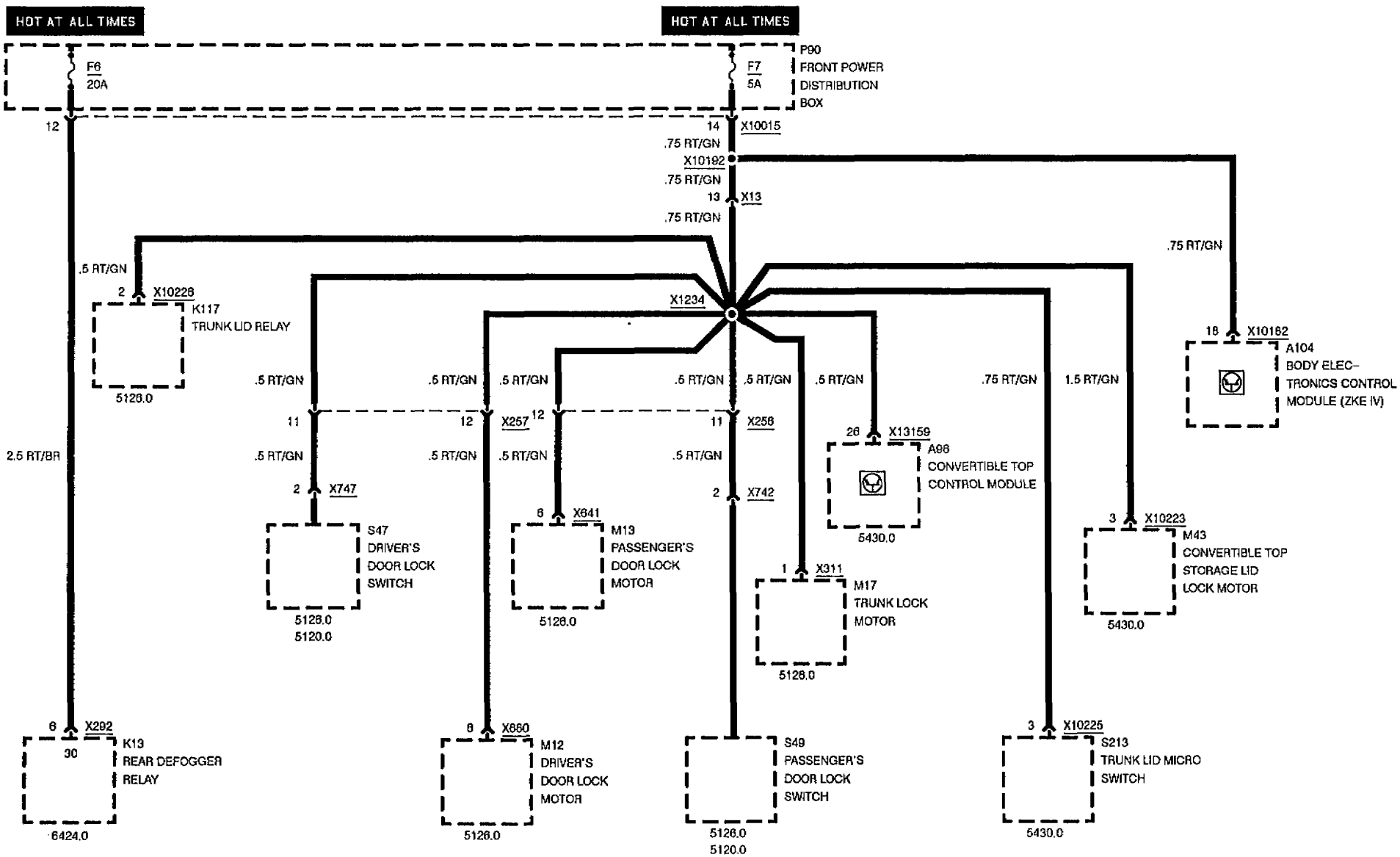
FUSE DETAILS

FUSES 1, 2, 3, 4, AND 5



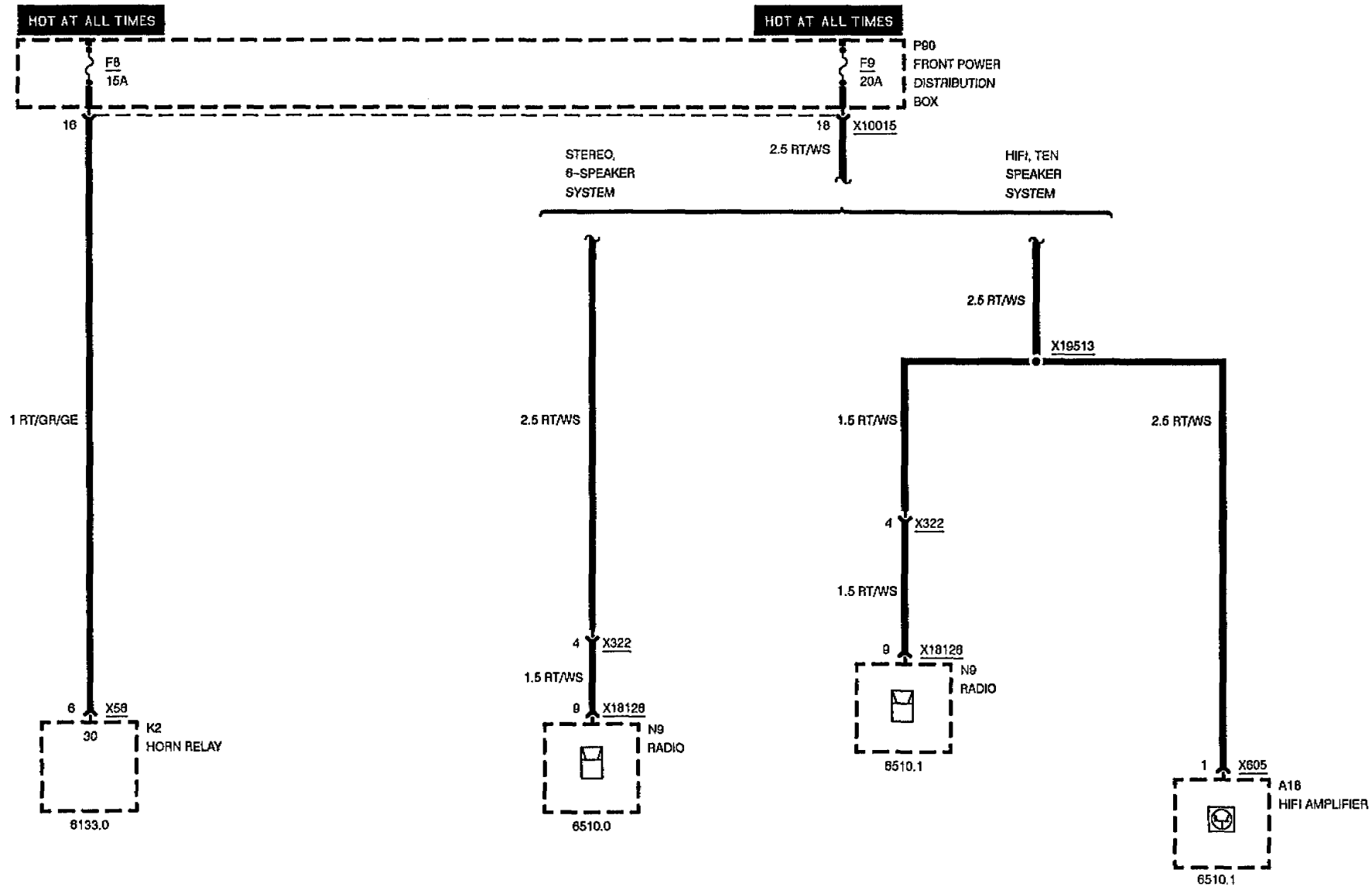
FUSE DETAILS

FUSES 6 AND 7



FUSE DETAILS

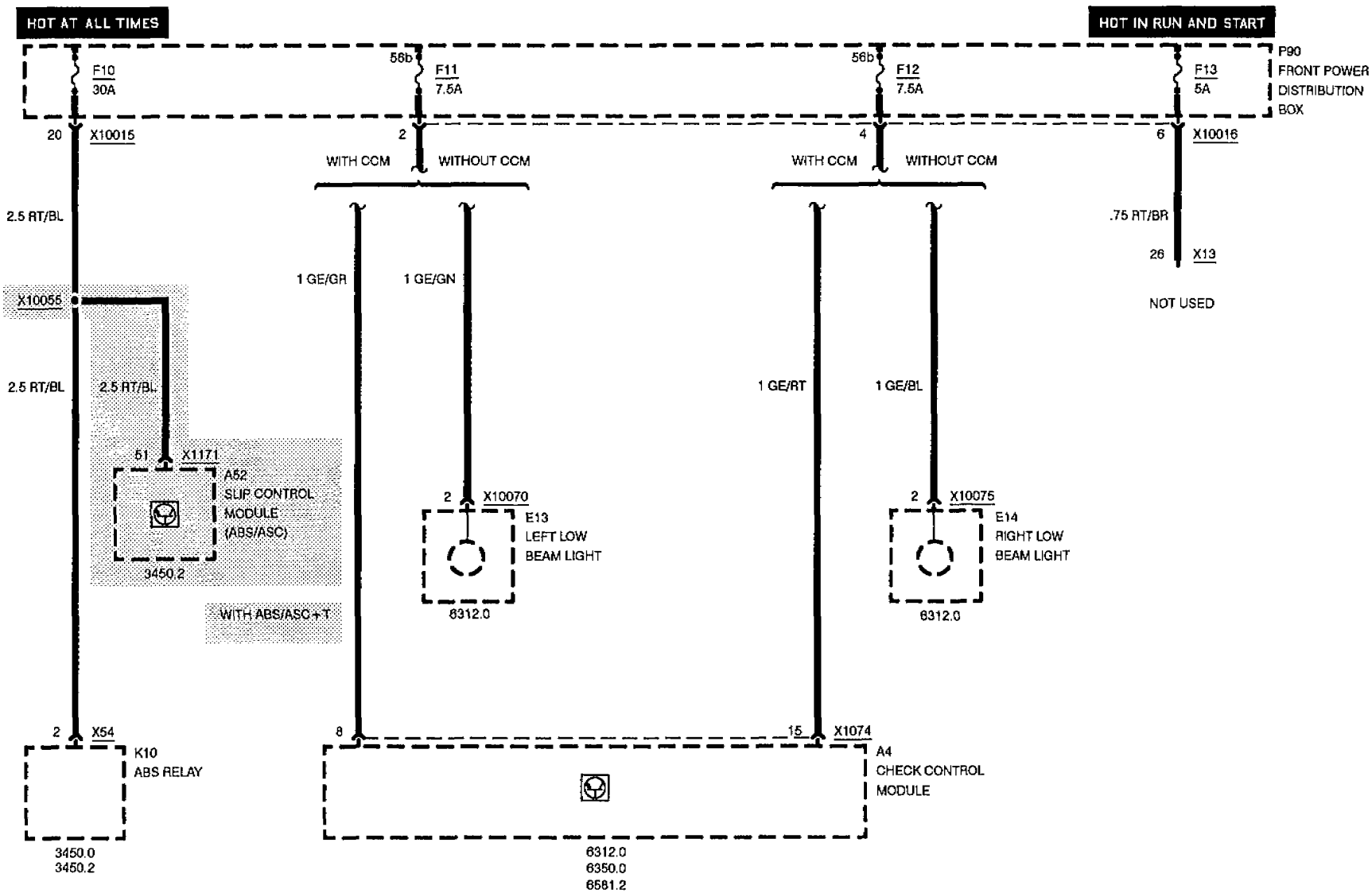
FUSES 8 AND 9



BMW 3

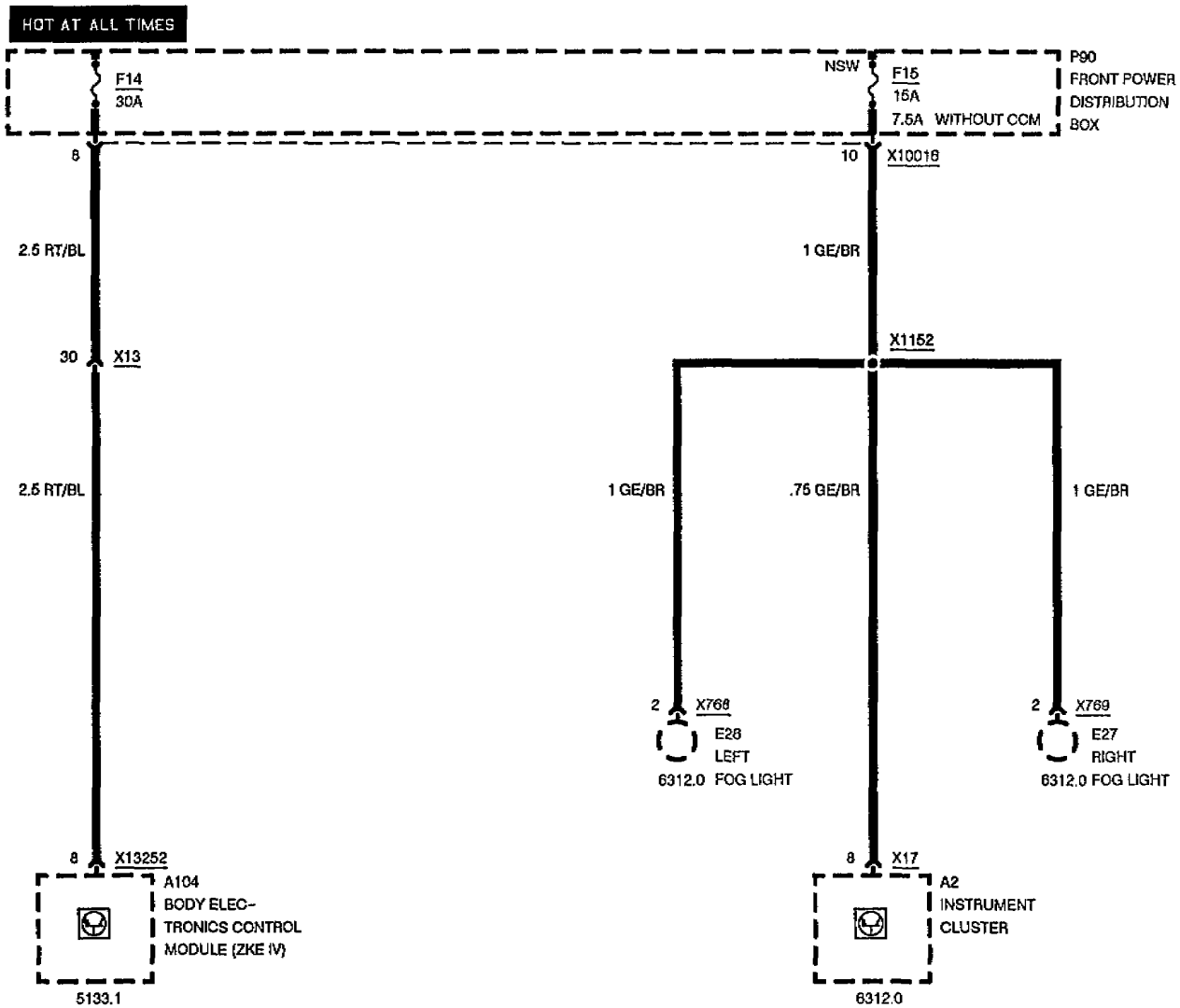
FUSE DETAILS

FUSES 10, 11, 12, AND 13



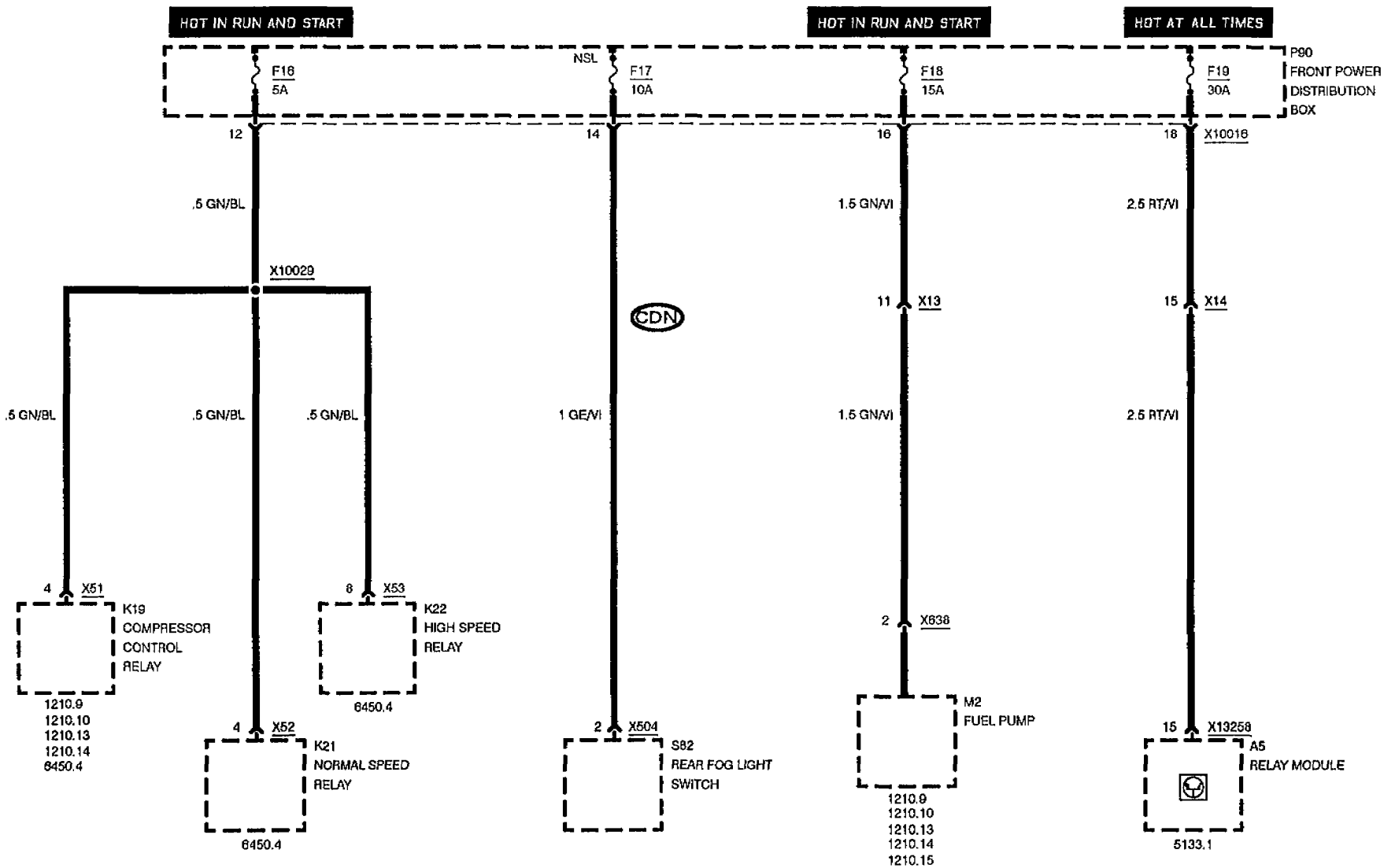
FUSE DETAILS

FUSES 14 AND 15



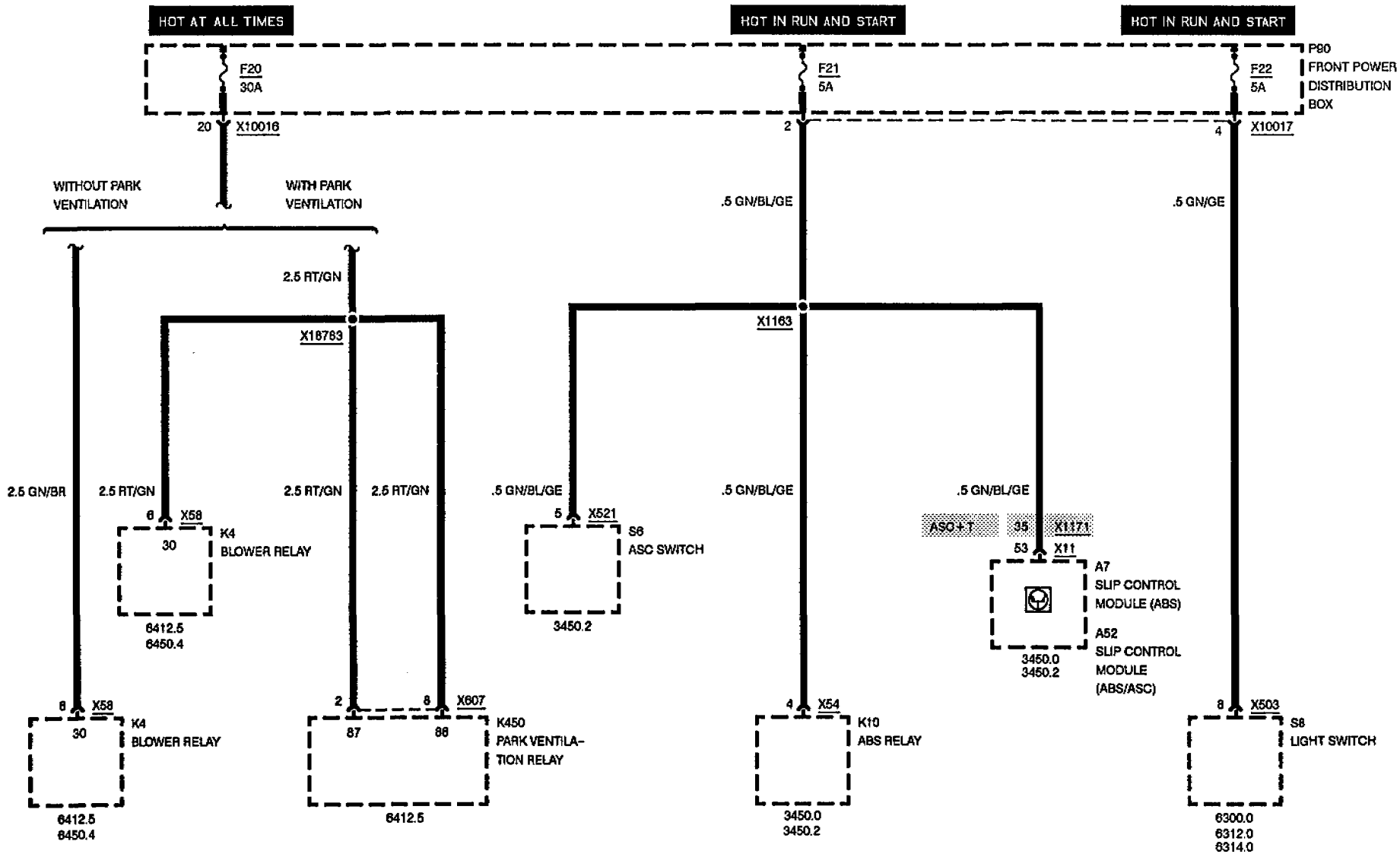
FUSE DETAILS

FUSES 16, 17, 18, AND 19



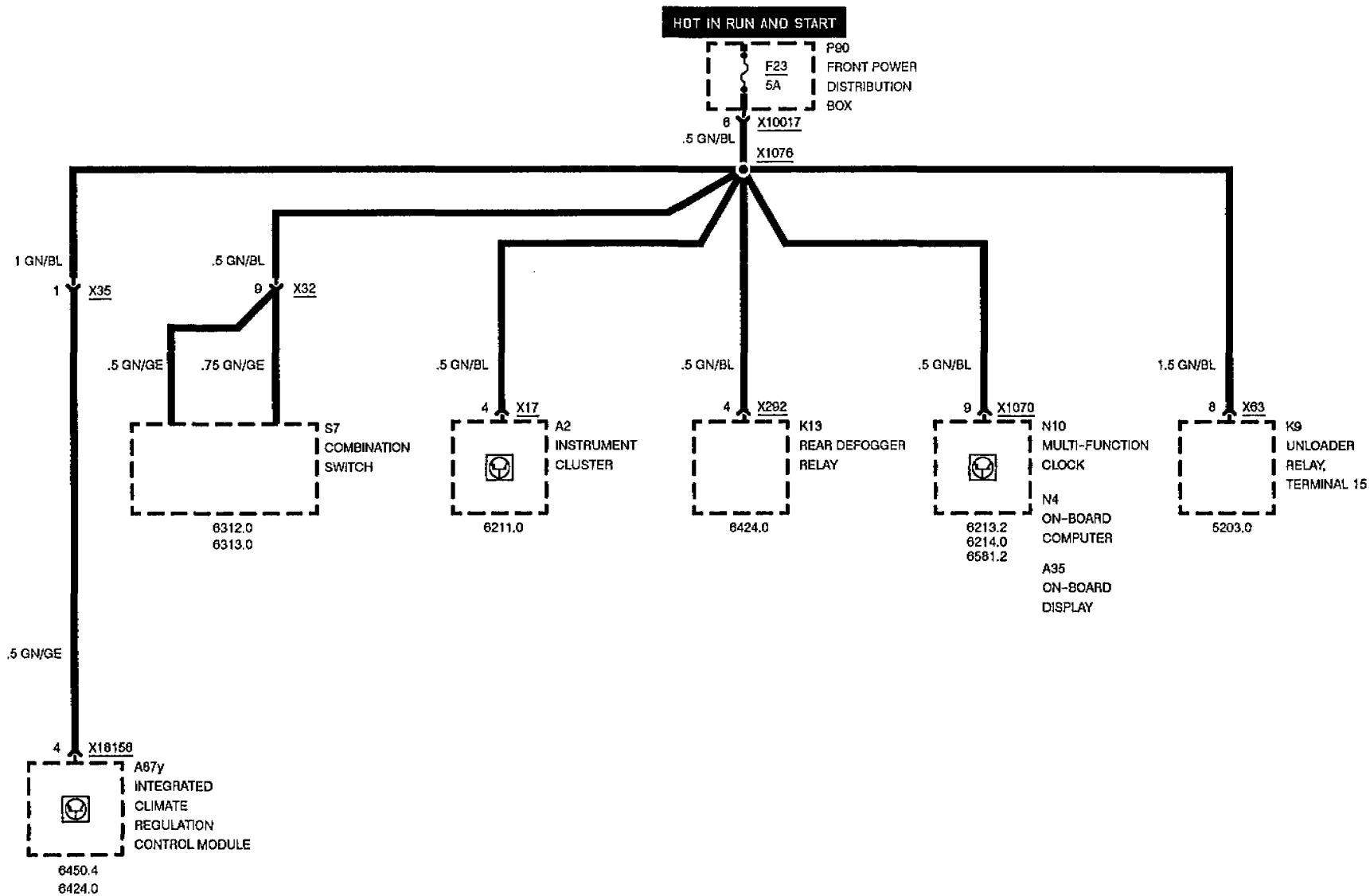
FUSE DETAILS

FUSES 20, 21, AND 22



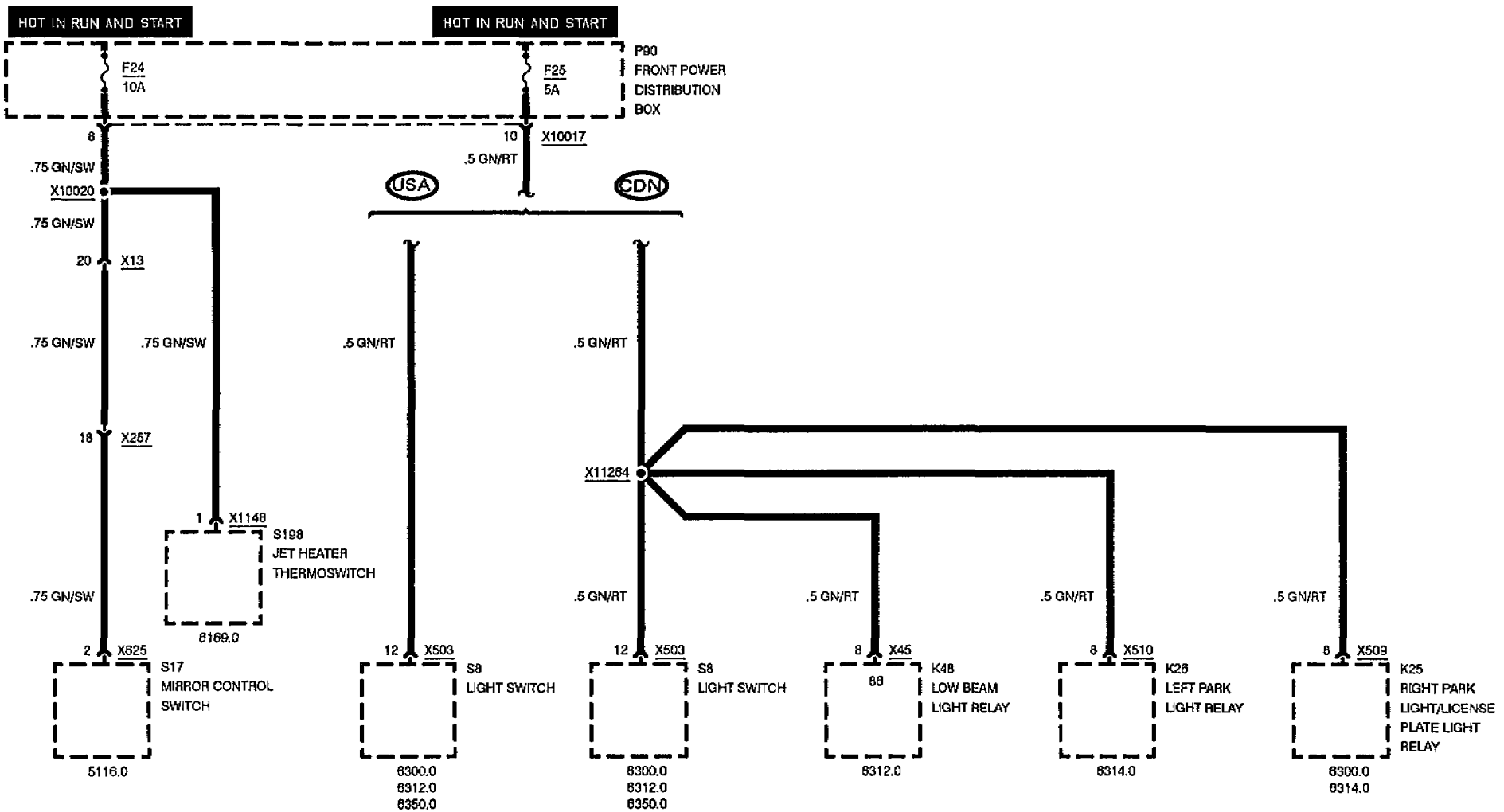
FUSE DETAILS

FUSE 23



FUSE DETAILS

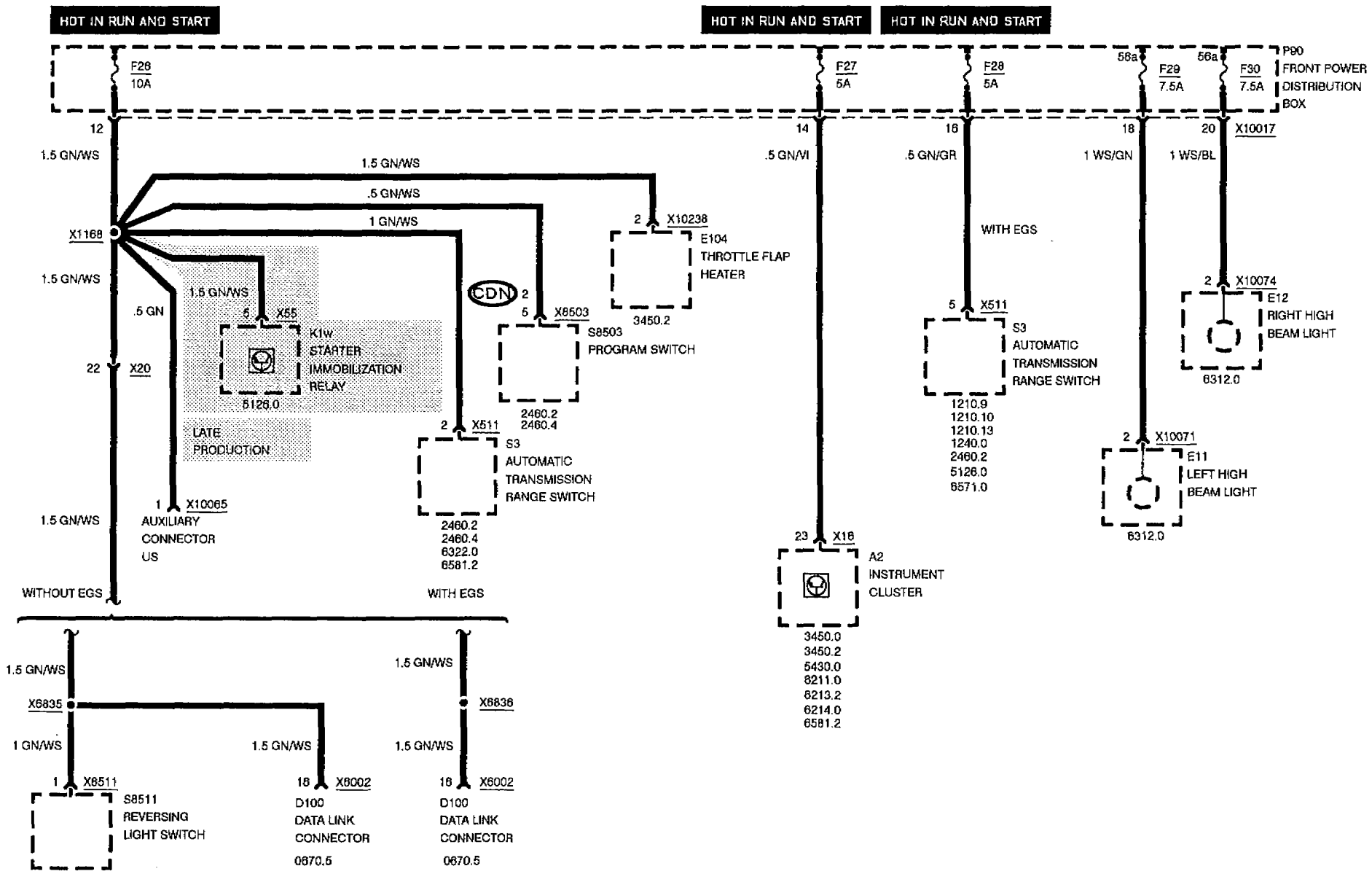
FUSES 24 AND 25



BMW 3

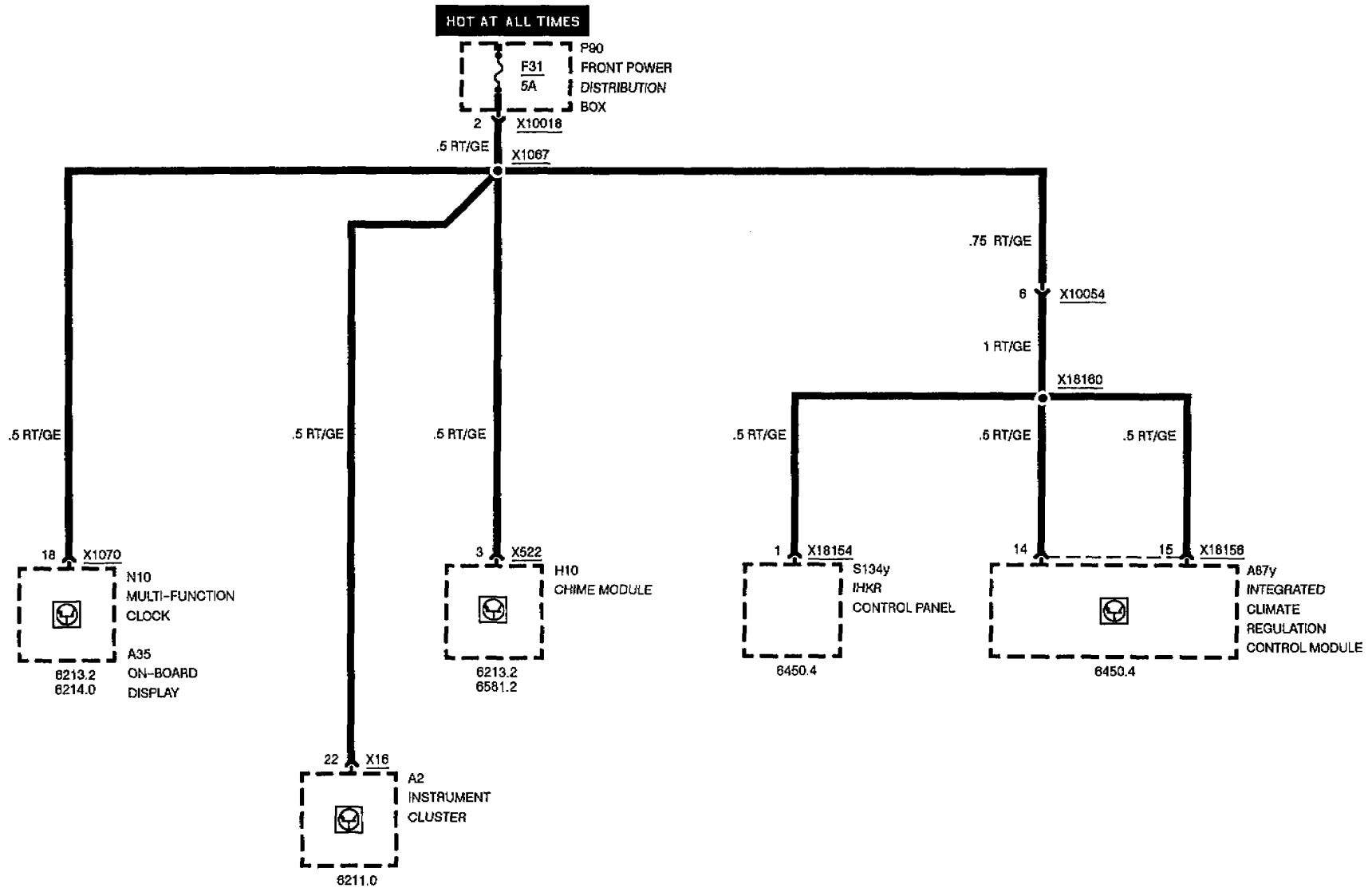
FUSE DETAILS

FUSES 26, 27, 28, 29, AND 30



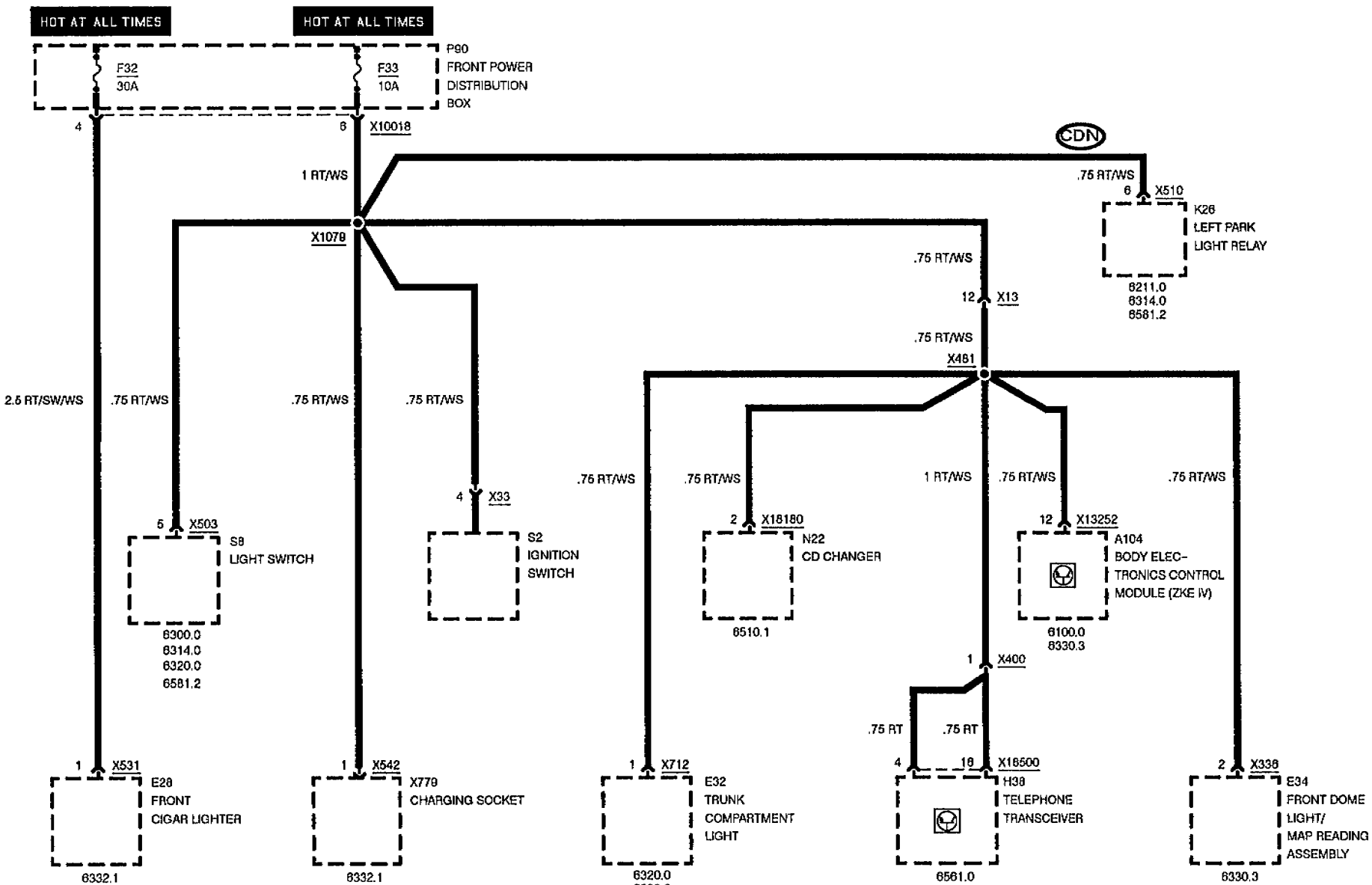
FUSE DETAILS

FUSE 31



FUSE DETAILS

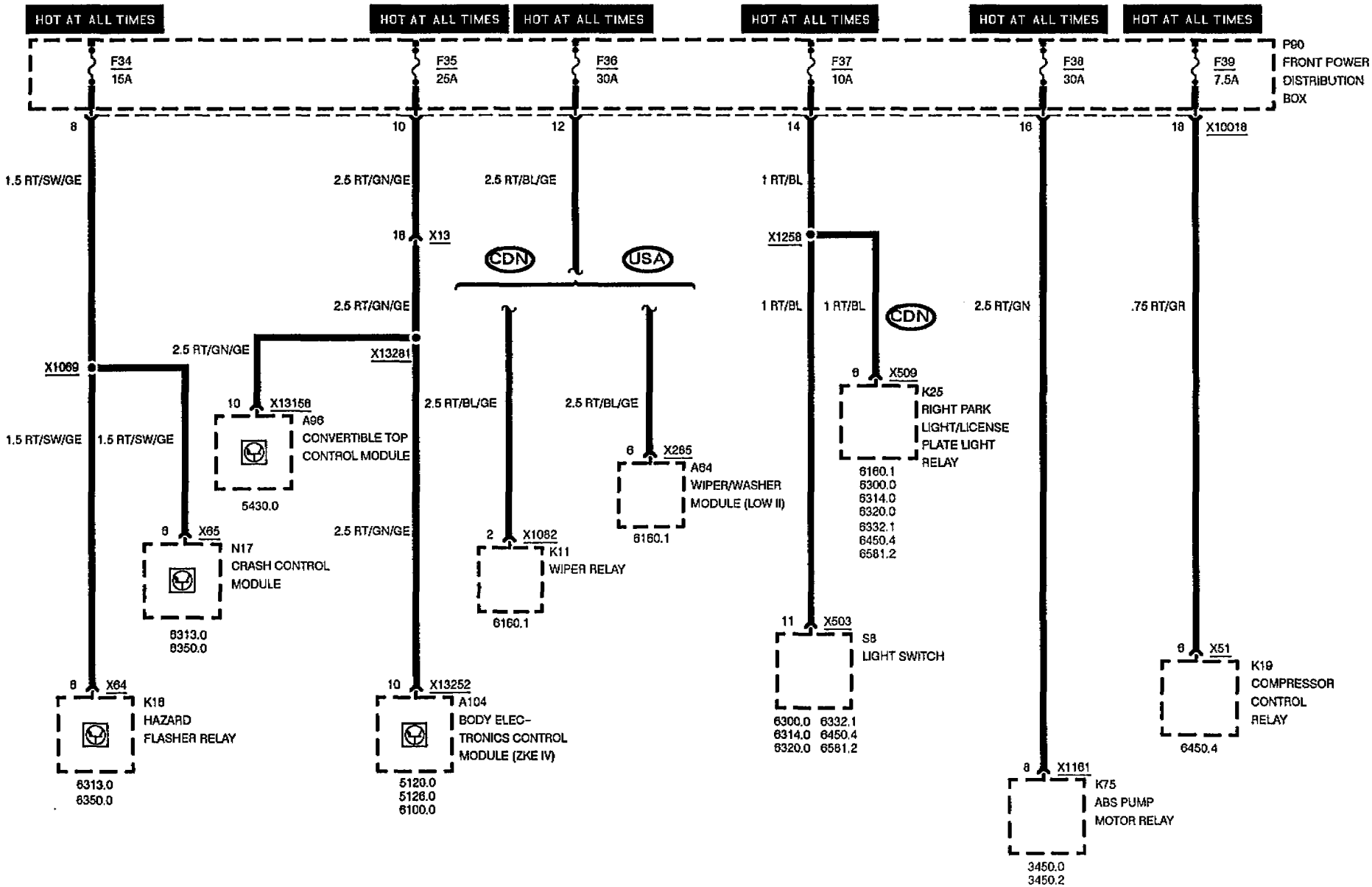
FUSES 32 AND 33



BMW 3

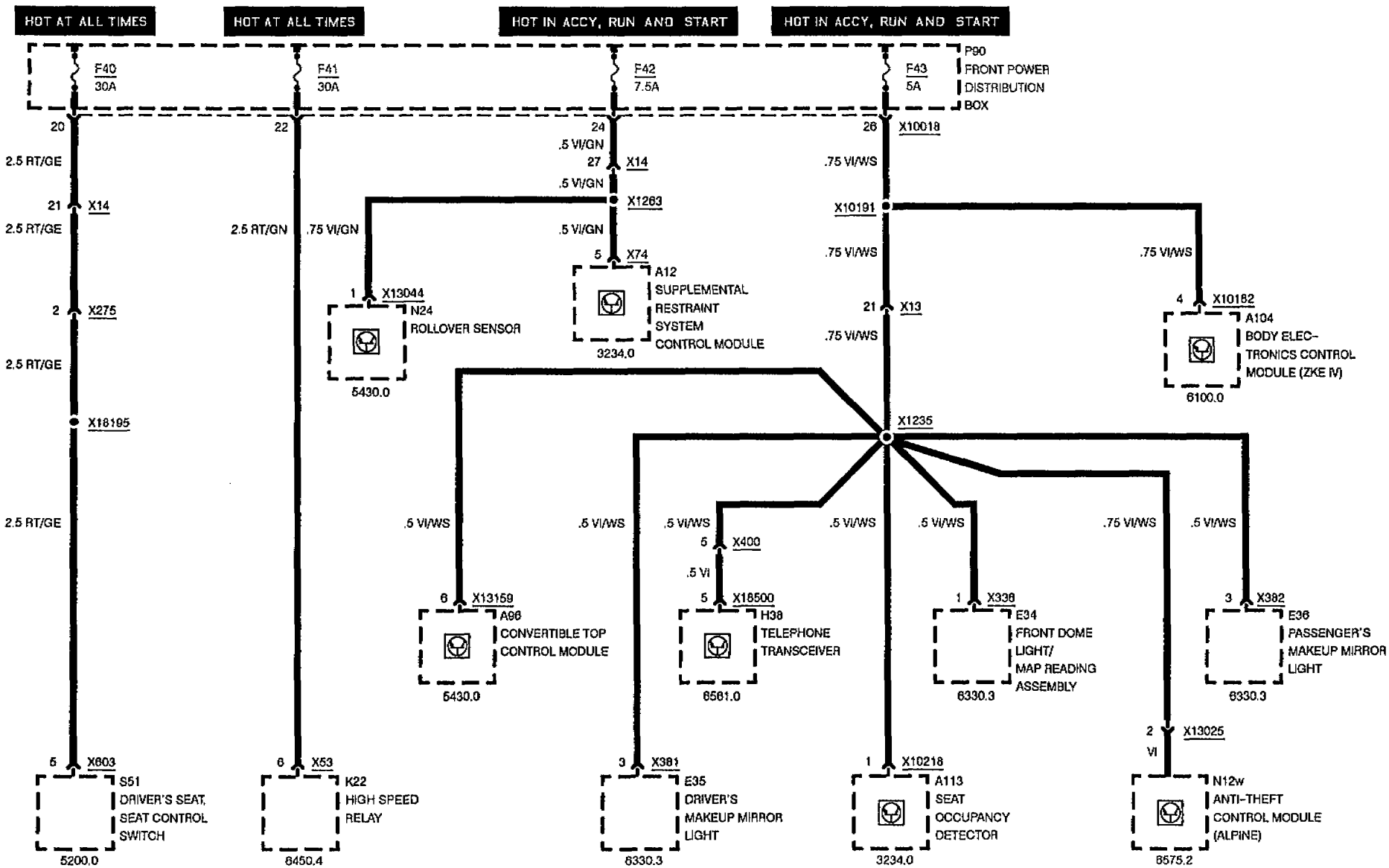
FUSE DETAILS

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



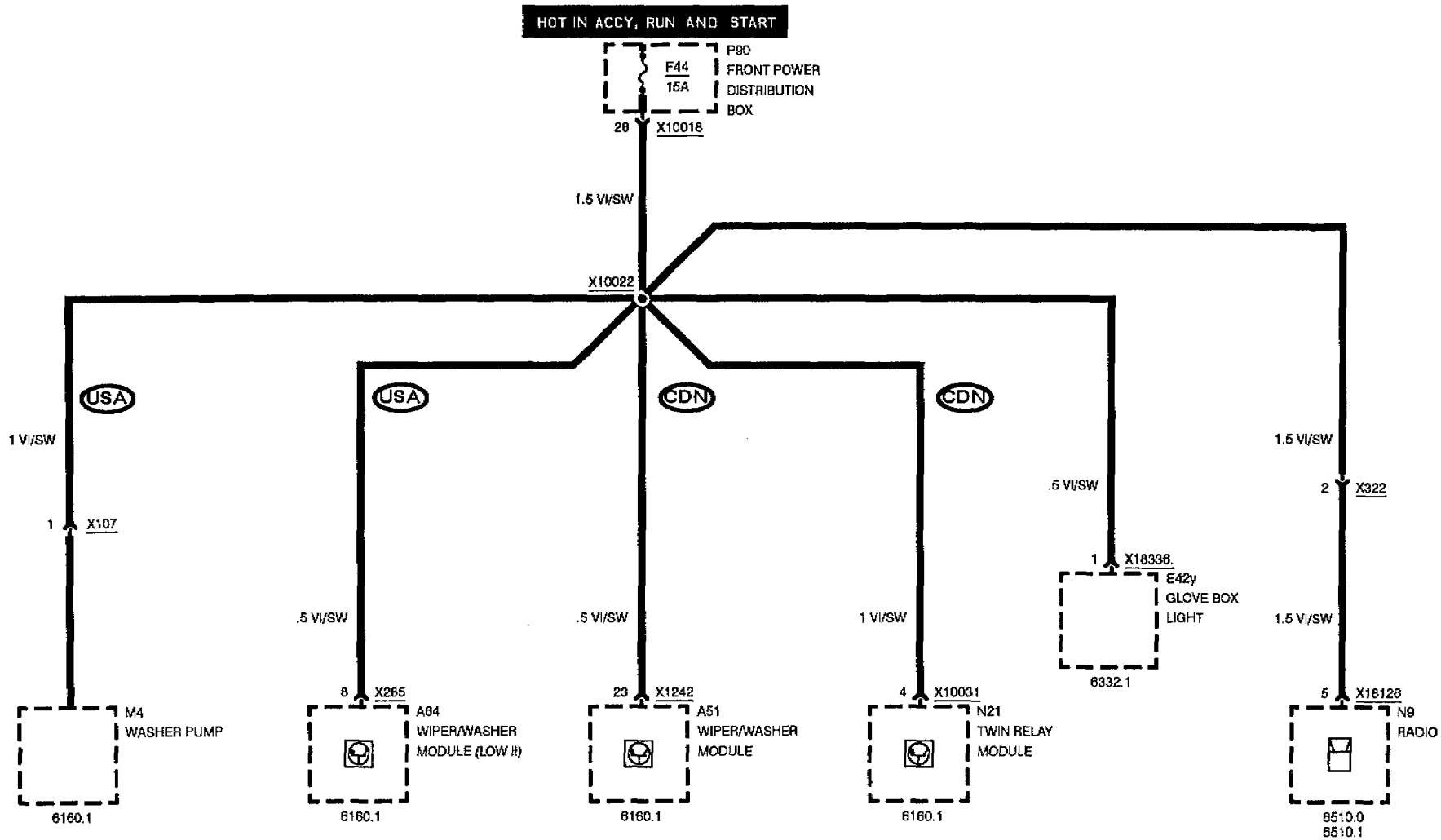
FUSE DETAILS

FUSES 40, 41, 42, AND 43



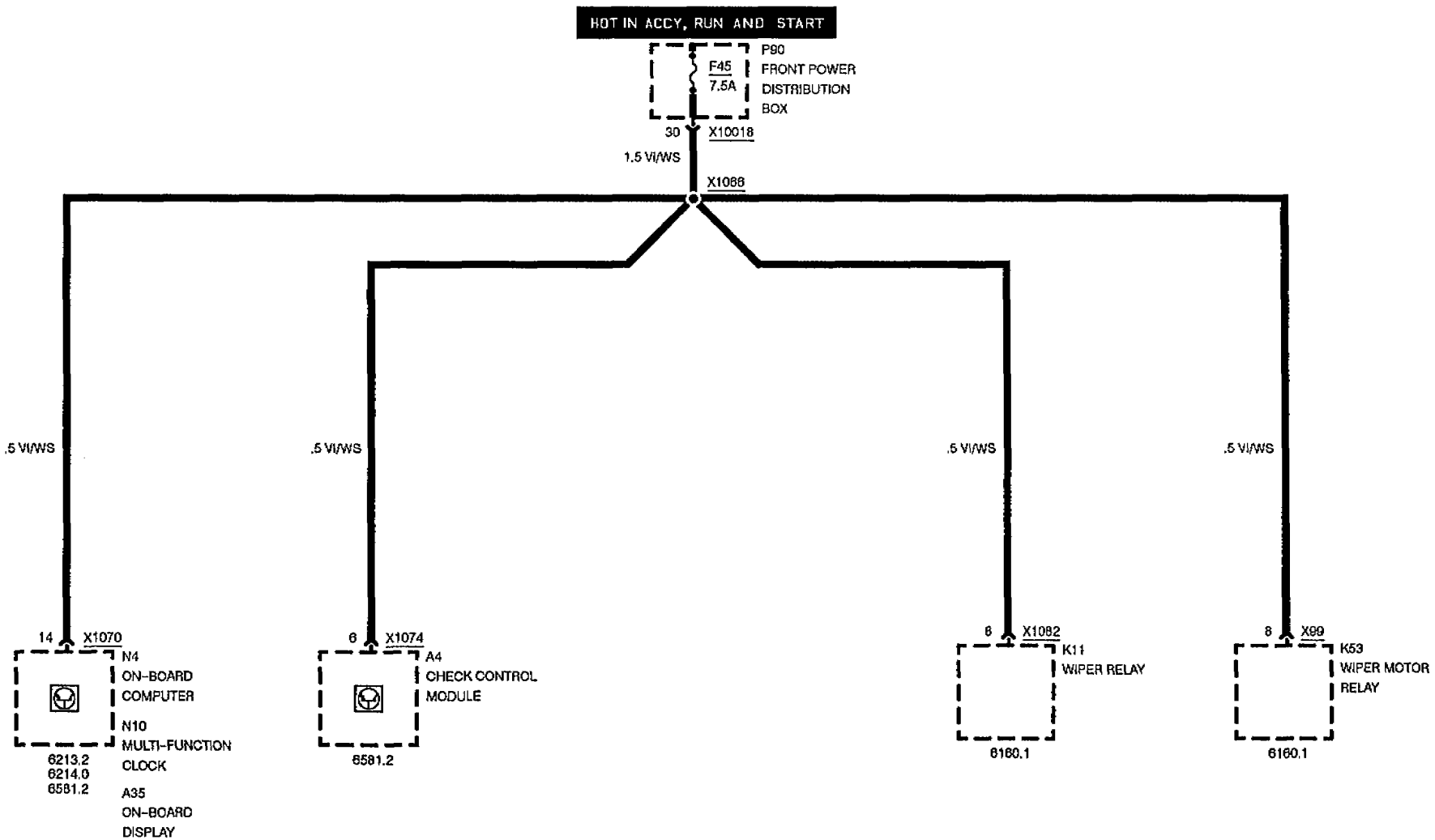
FUSE DETAILS

FUSE 44



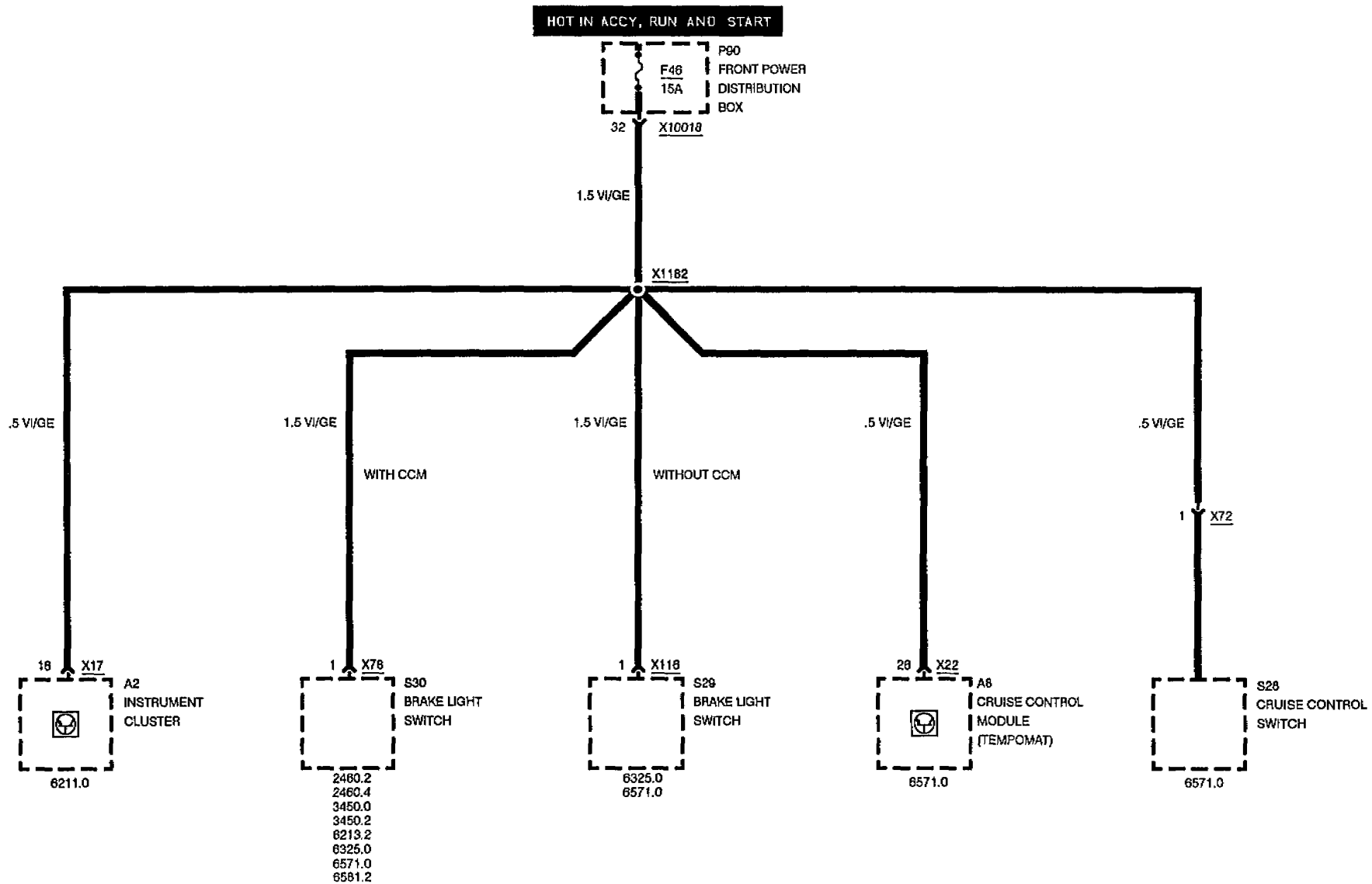
FUSE DETAILS

FUSE 45



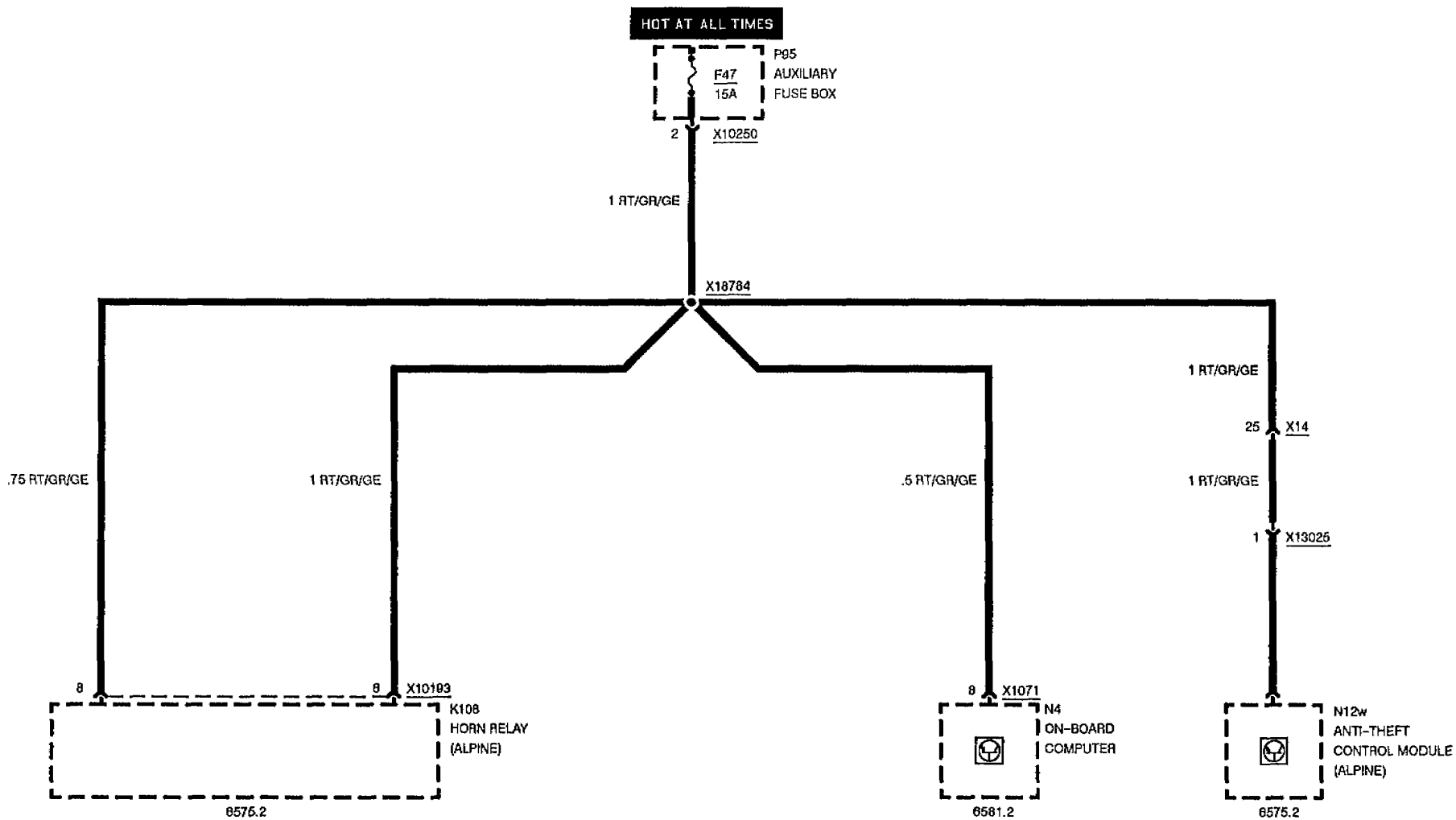
FUSE DETAILS

FUSE 46



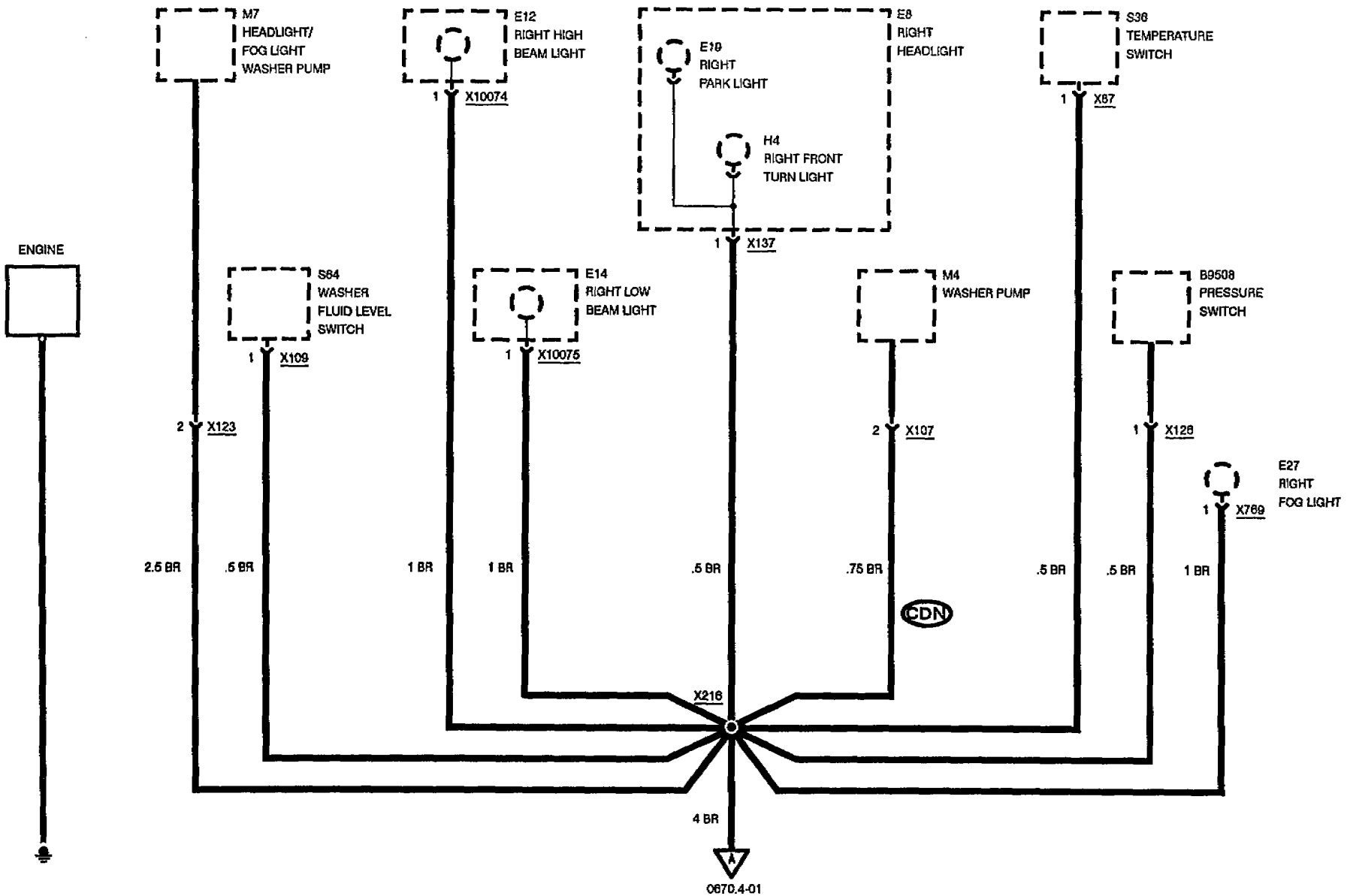
FUSE DETAILS

FUSE 47



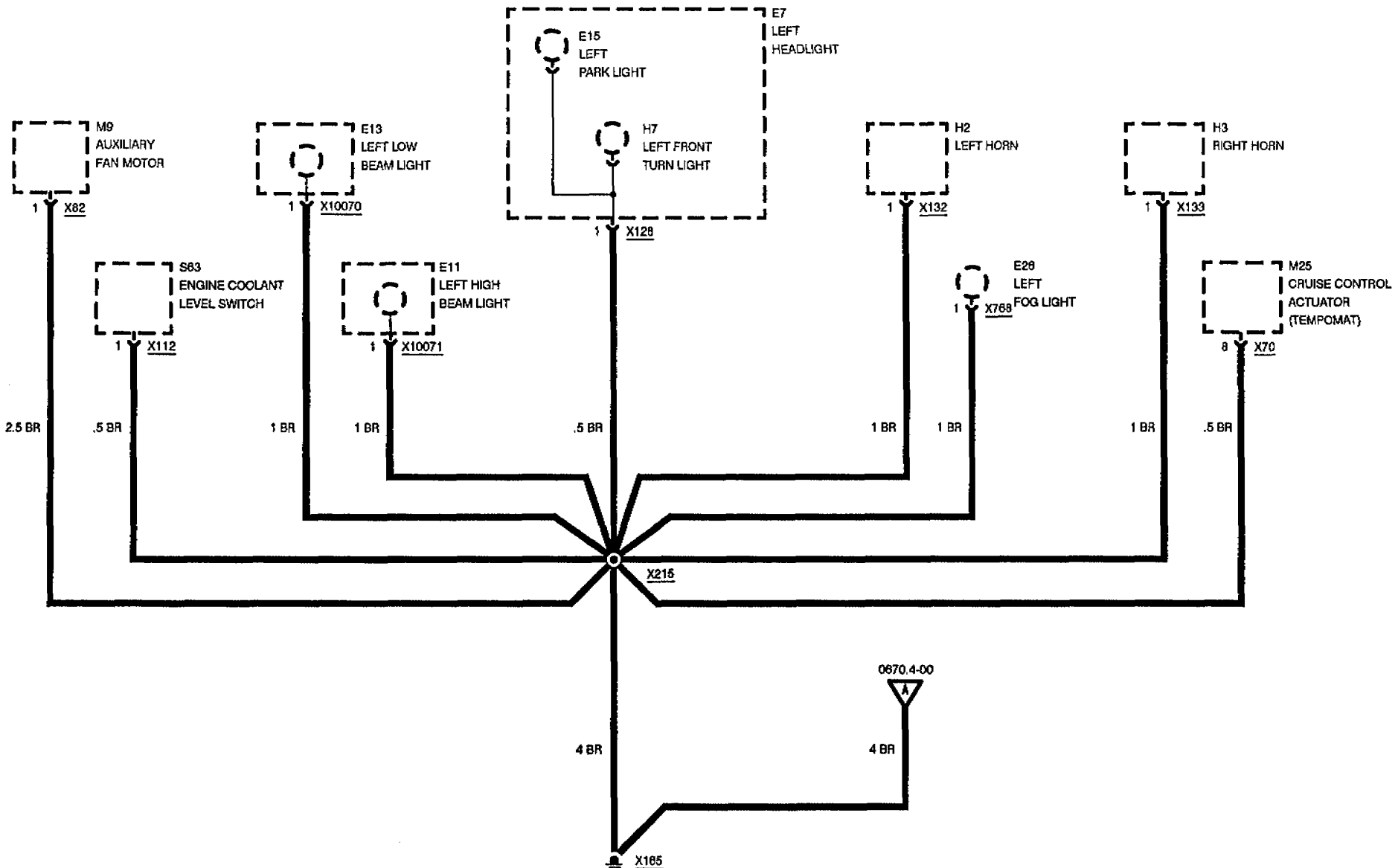
GROUND DISTRIBUTION

GROUND X165



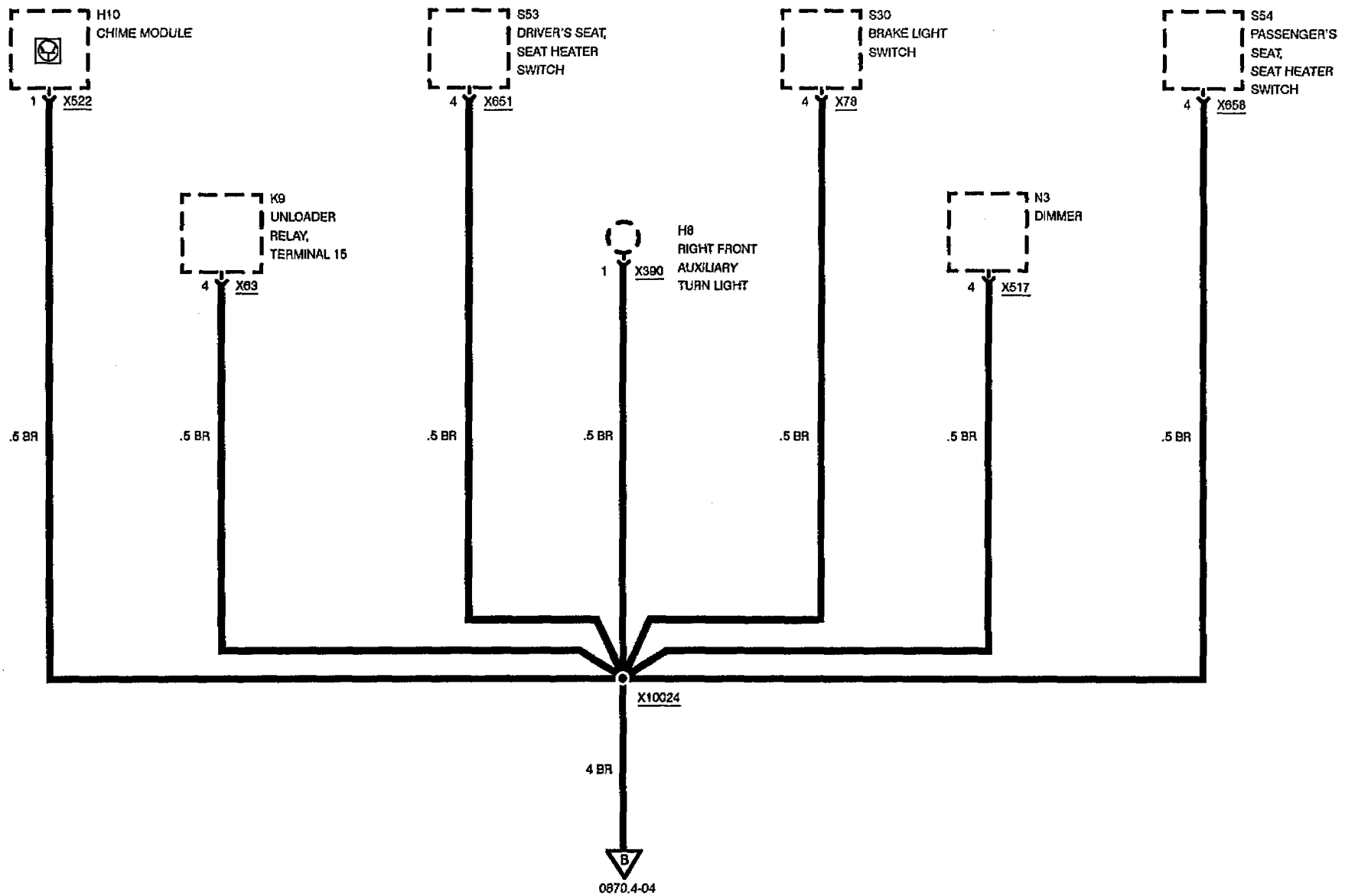
GROUND DISTRIBUTION

GROUND X165



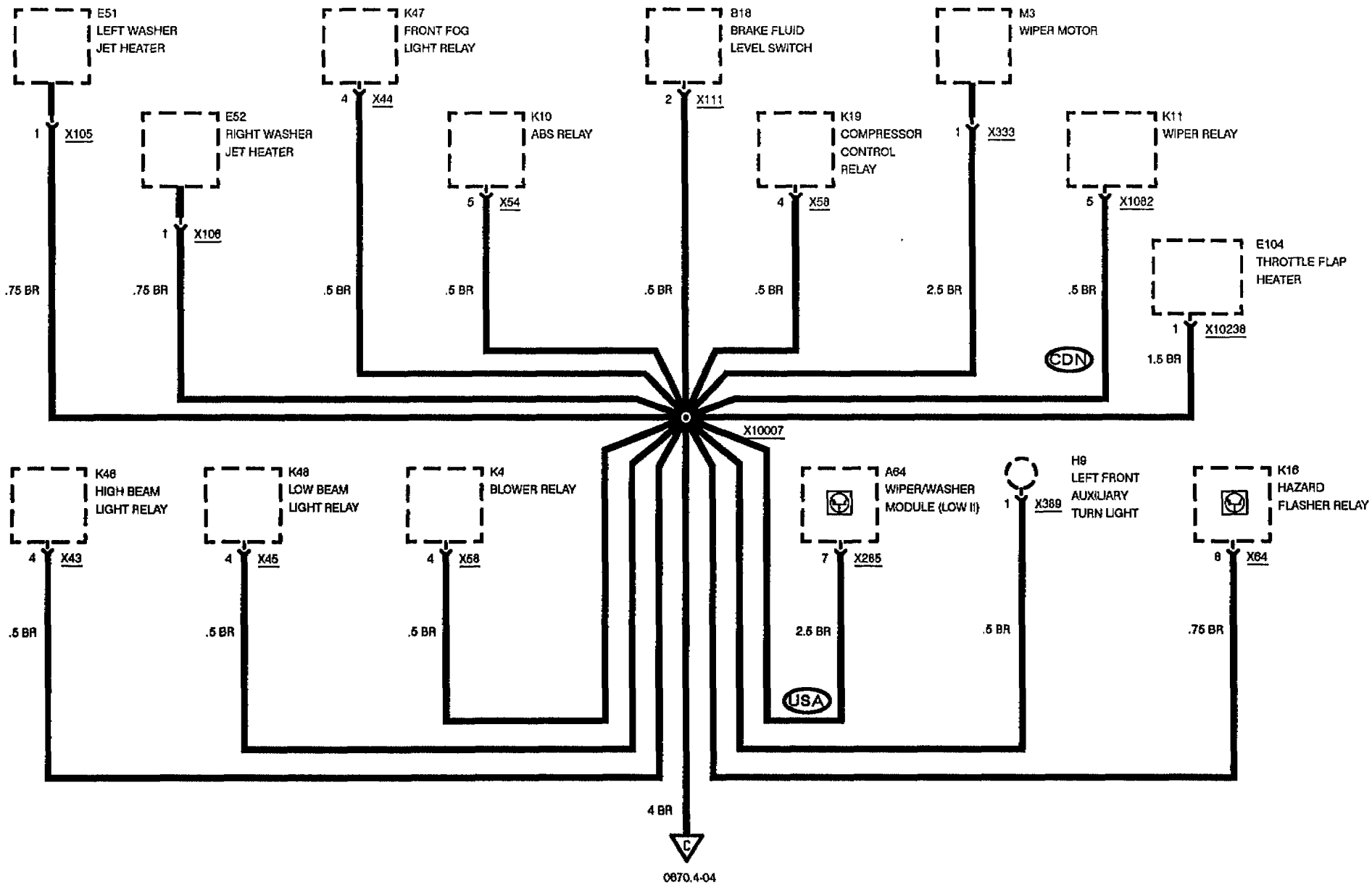
GROUND DISTRIBUTION

GROUND X173



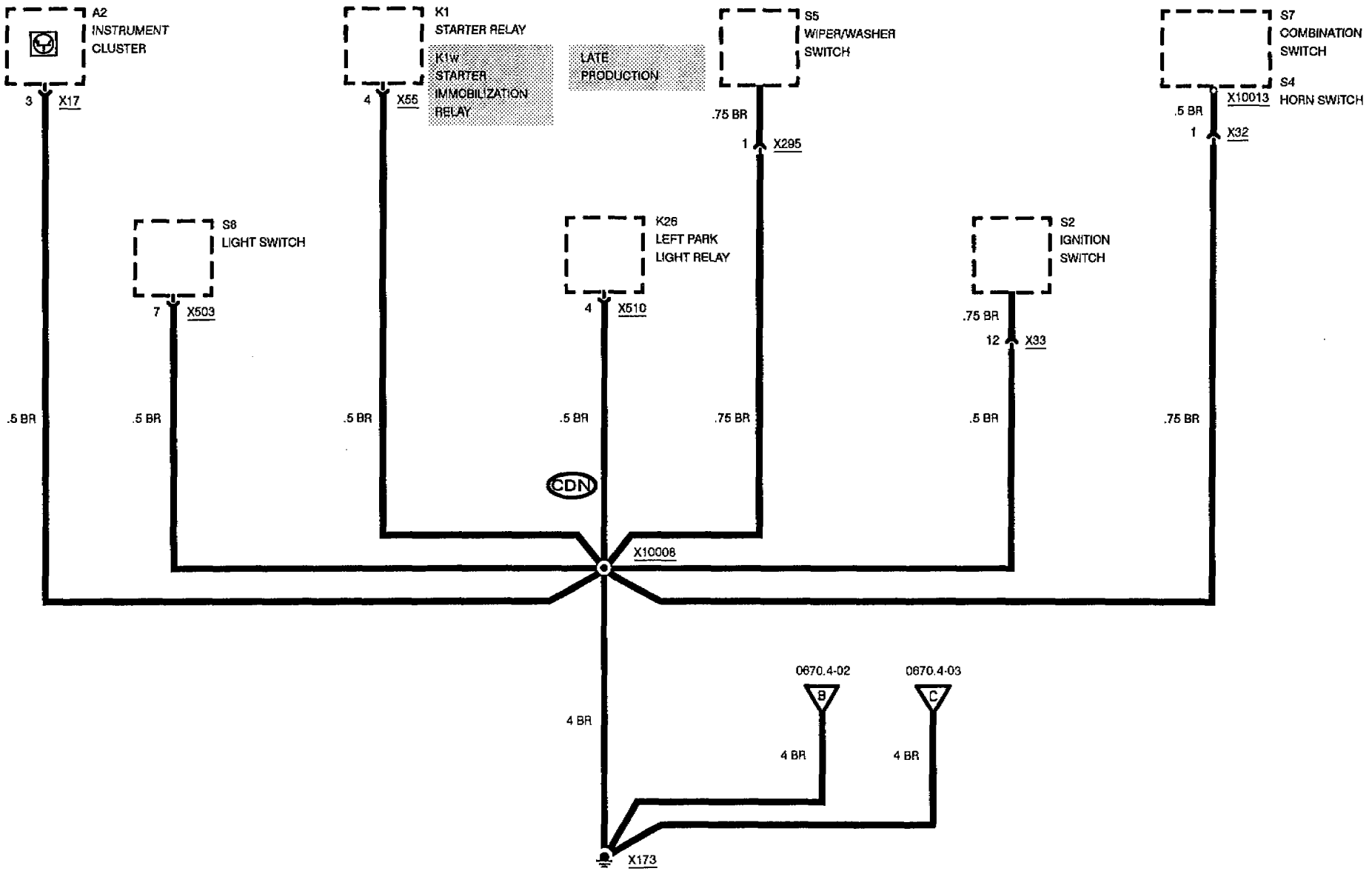
GROUND DISTRIBUTION

GROUND X173



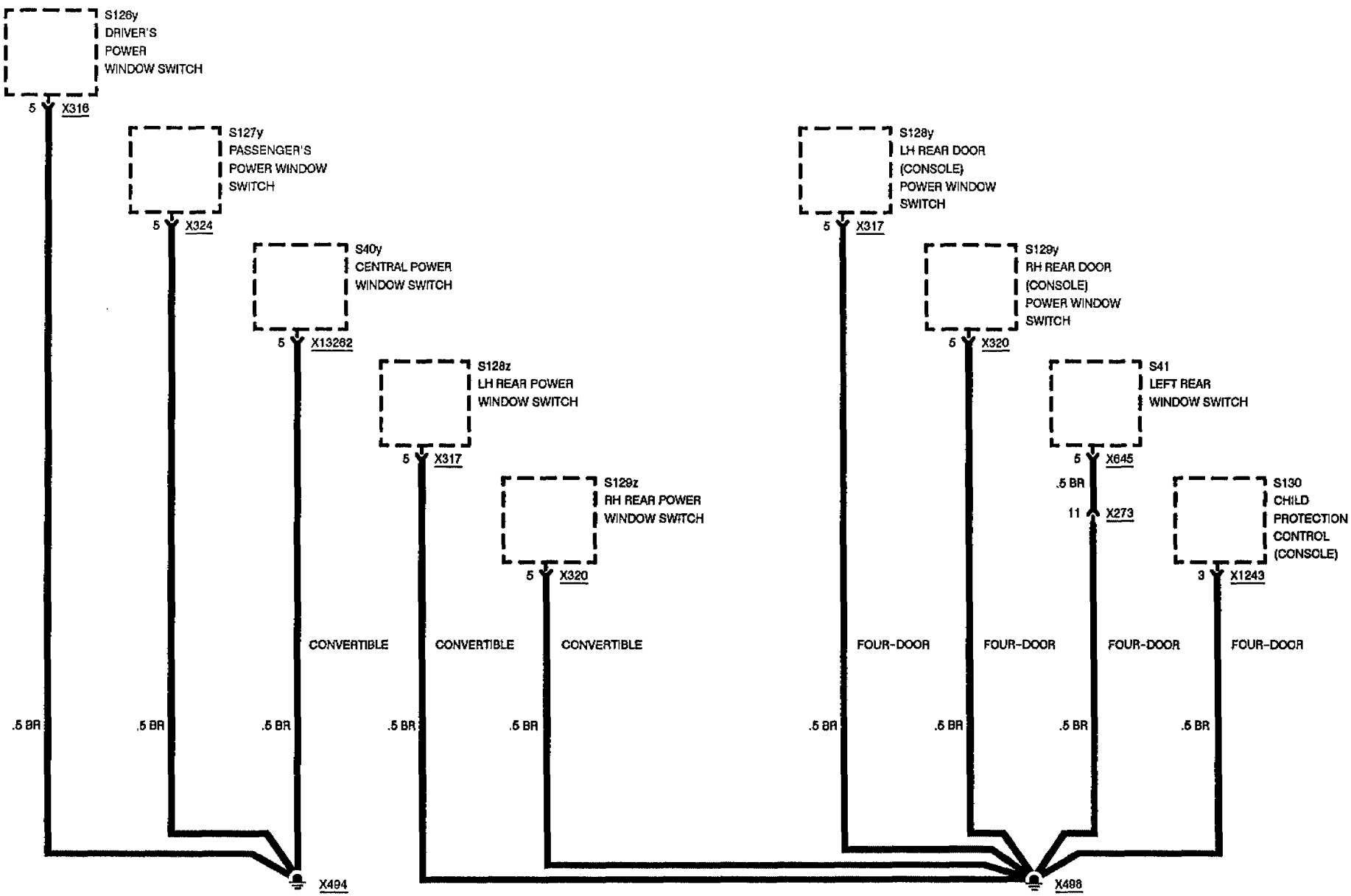
GROUND DISTRIBUTION

GROUND X173



GROUND DISTRIBUTION

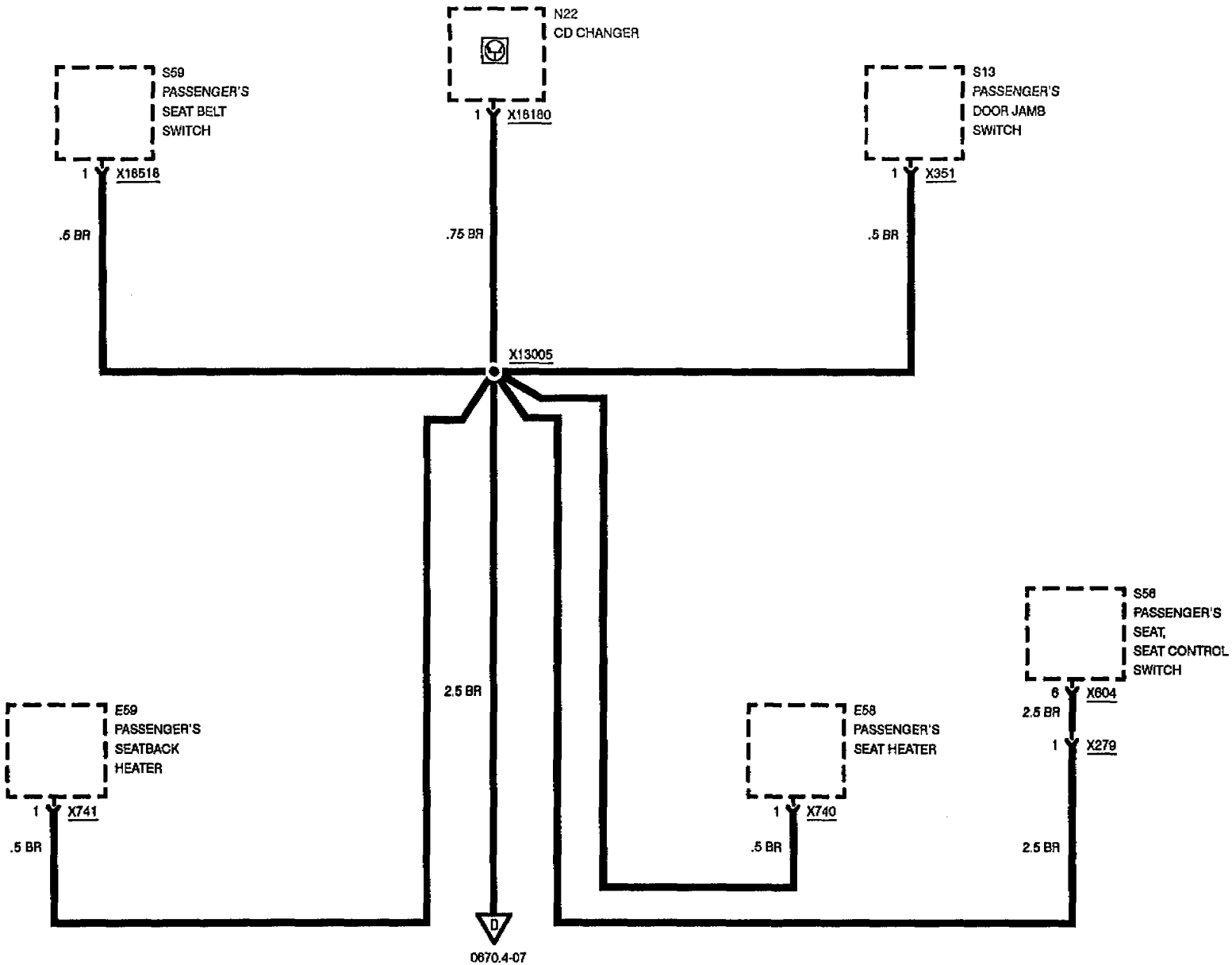
GROUNDS X494 AND X498



GROUND DISTRIBUTION

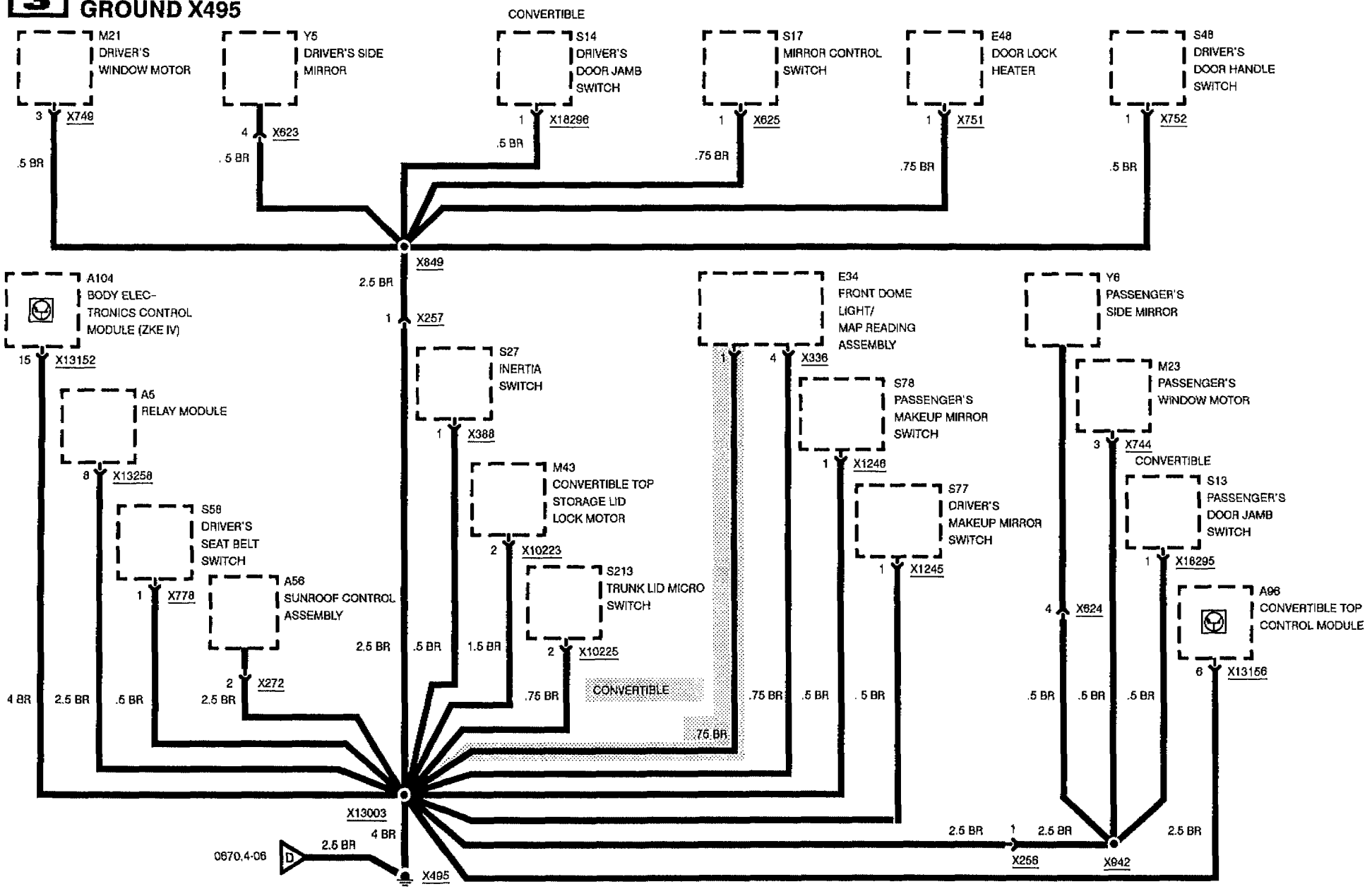
GROUND X495

TWO-DOOR



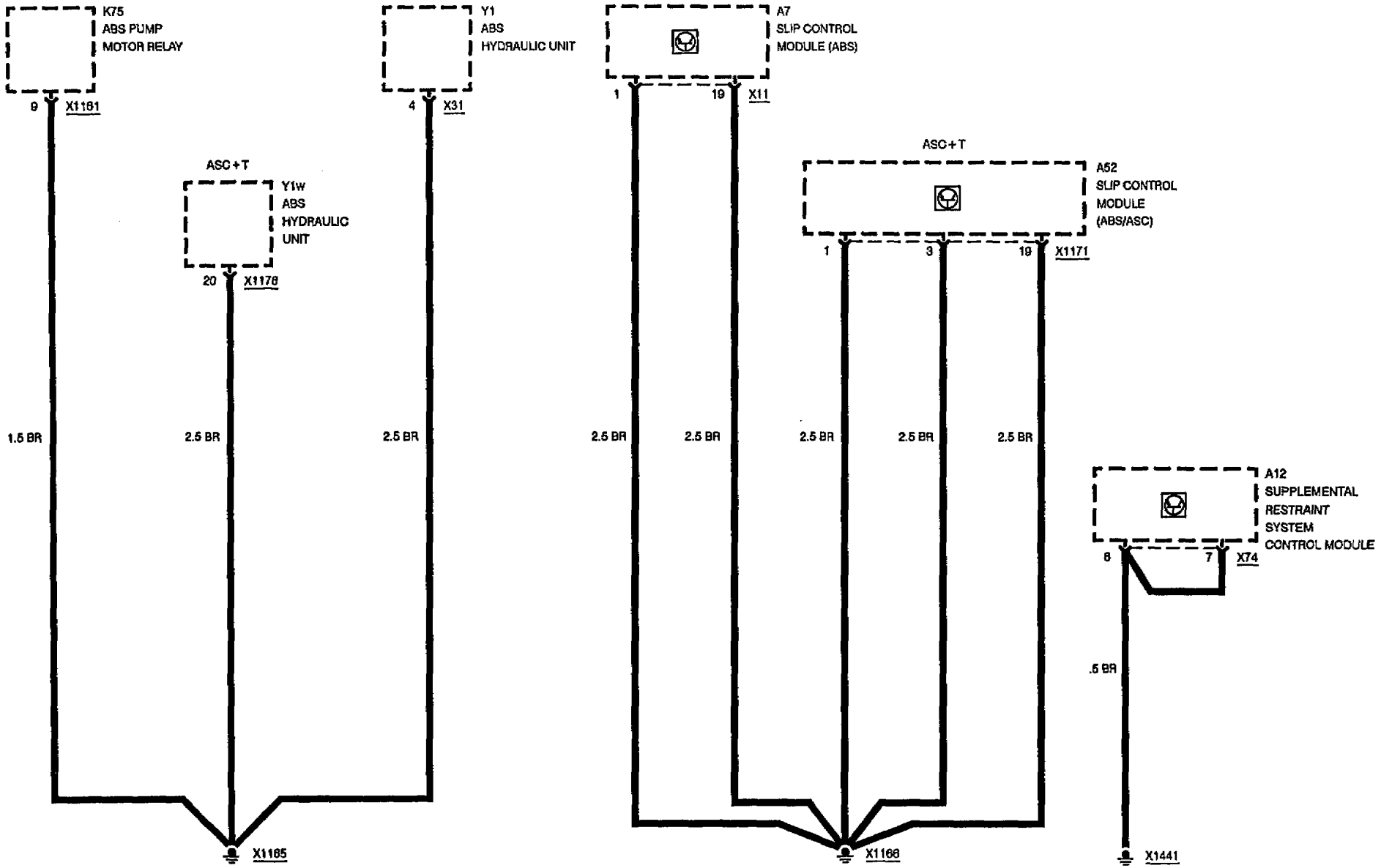
GROUND DISTRIBUTION

GROUND X495



GROUND DISTRIBUTION

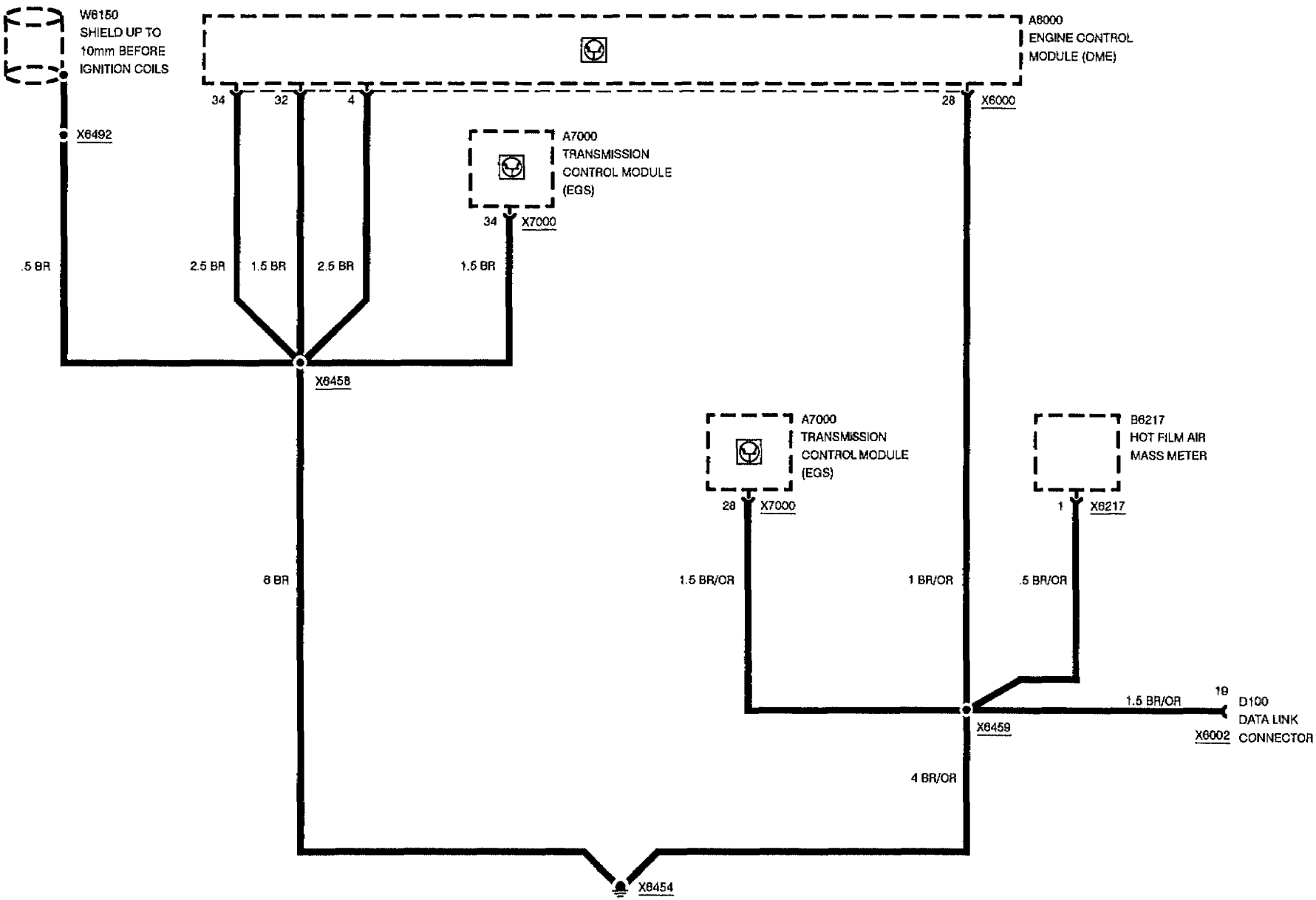
GROUNDS X1165, X1166, AND X1441

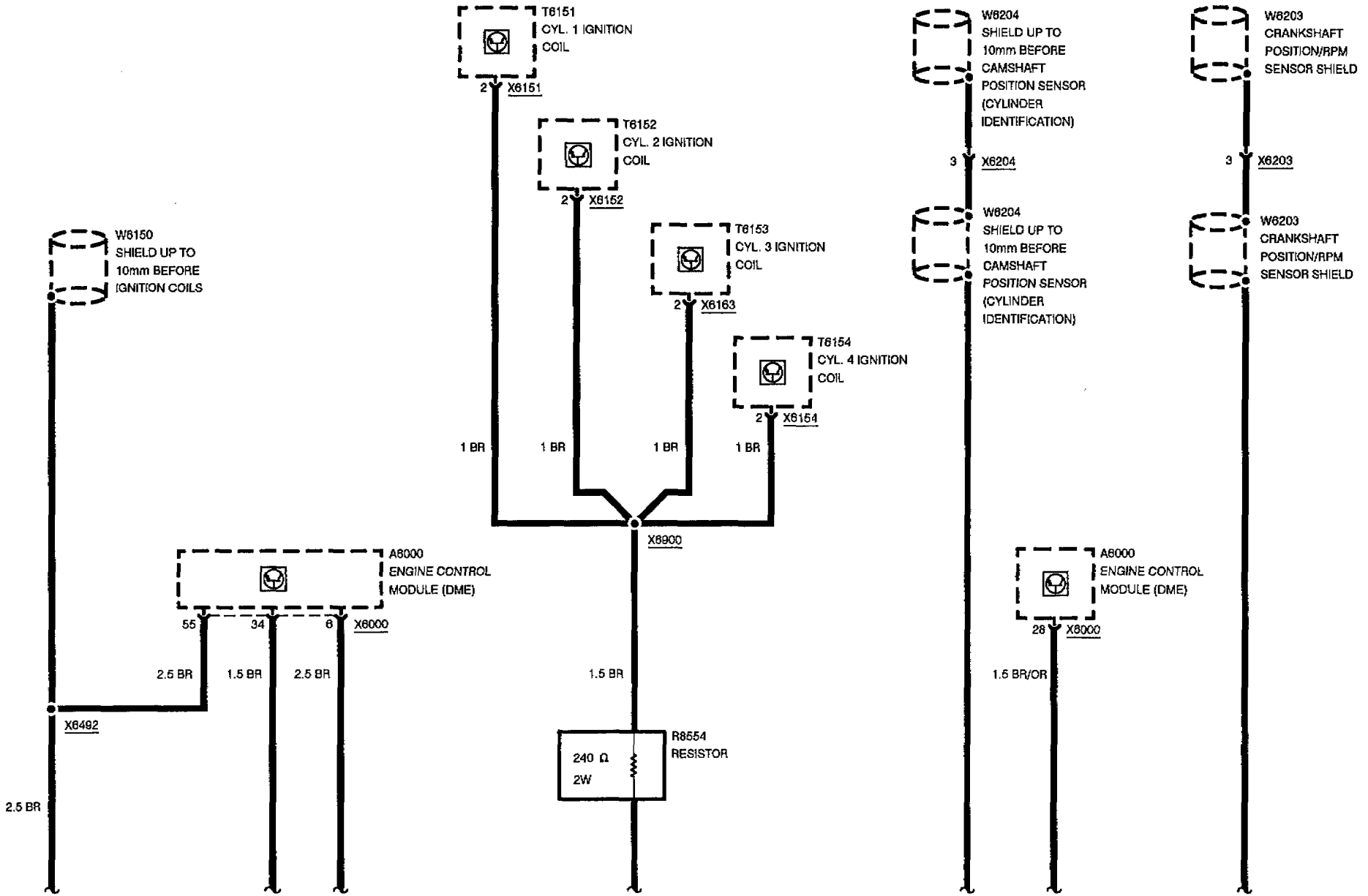


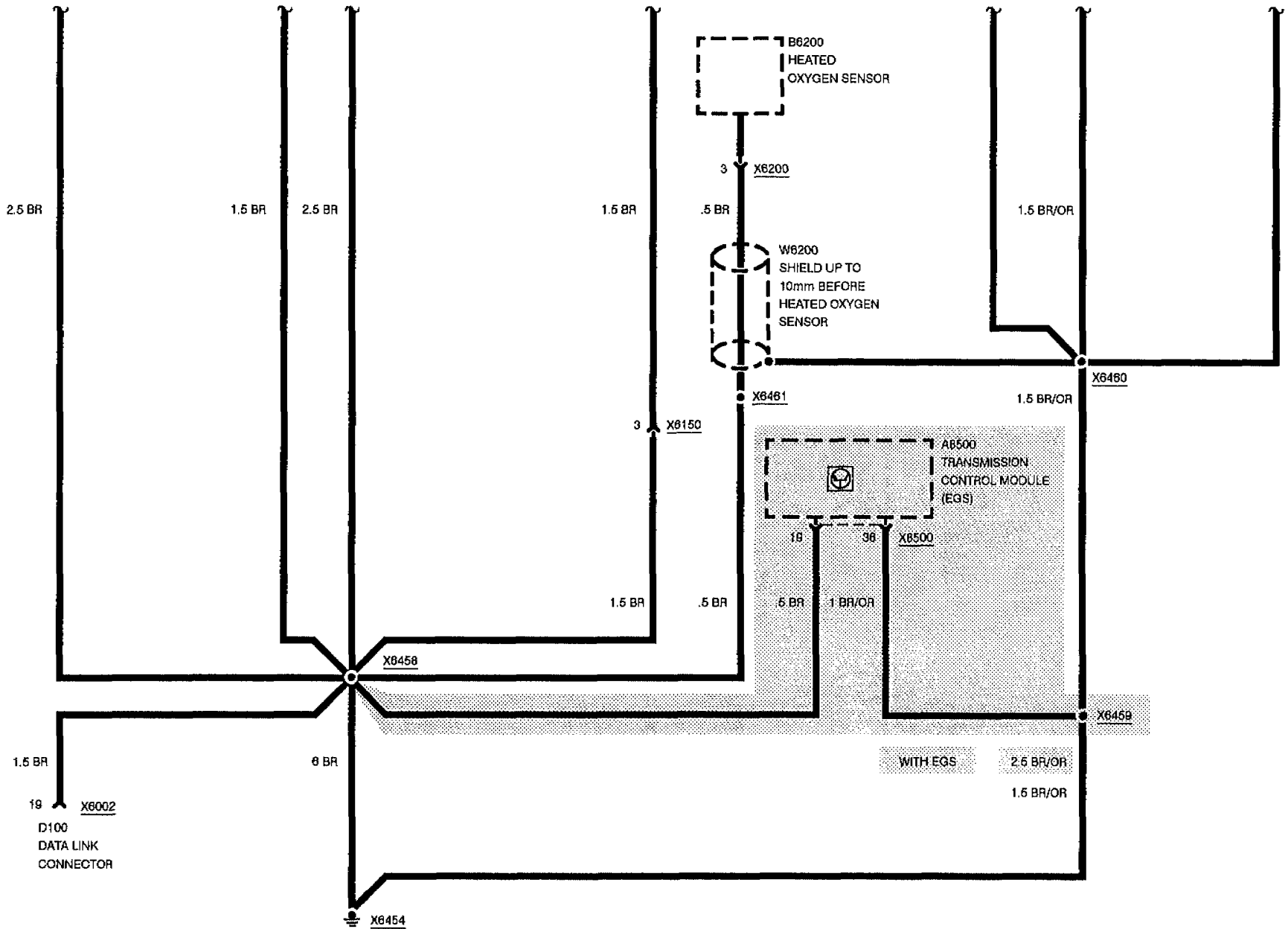
GROUND DISTRIBUTION

320i CDN

GROUND X6454

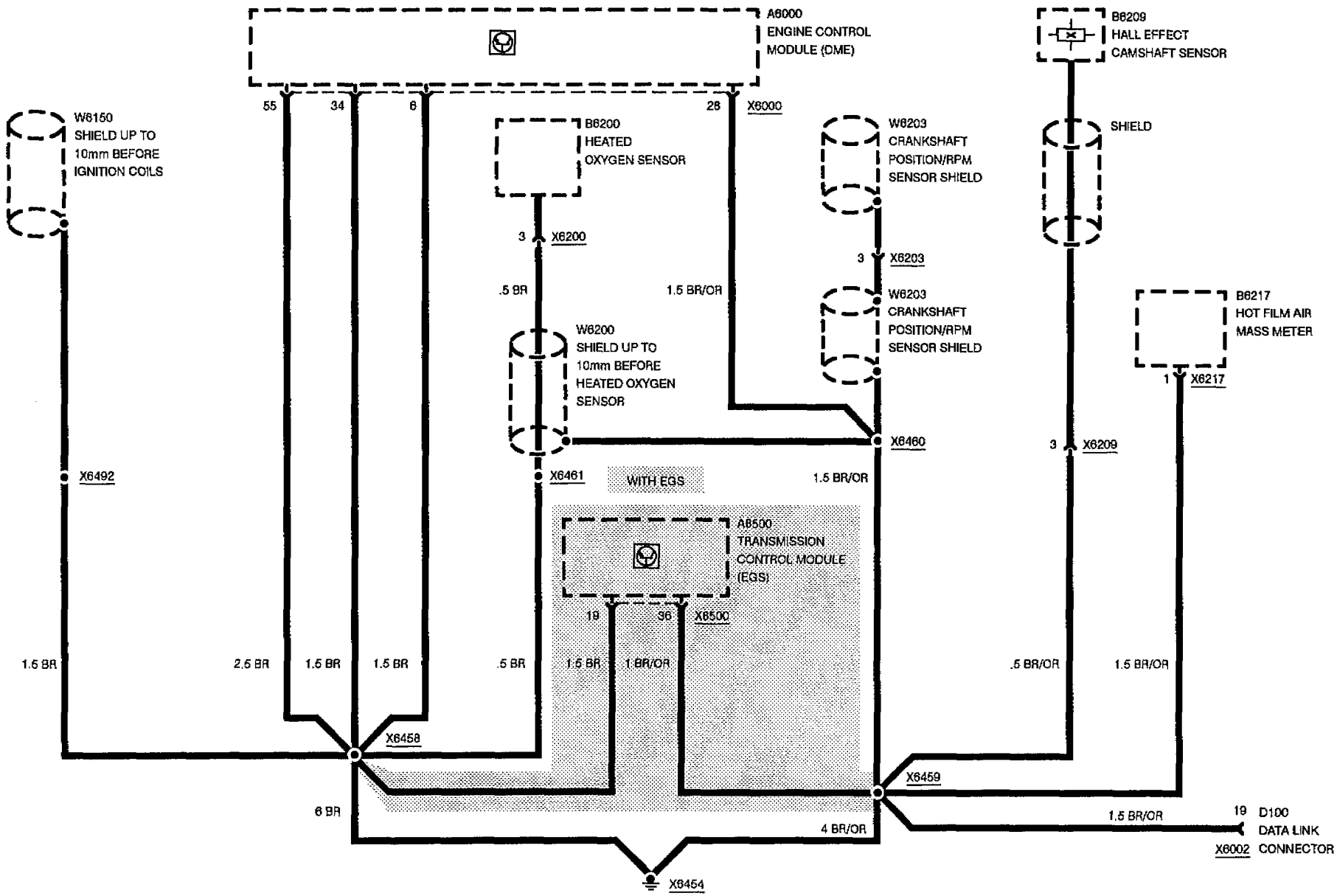



T6151
CYL. 1 IGNITION COIL
2
X6151
T6152
CYL. 2 IGNITION COIL
2
X6152
T6153
CYL. 3 IGNITION COIL
2
X6163
T6154
CYL. 4 IGNITION COIL
2
X6154
1 BR
1 BR
1 BR
1 BR
X6900
W6150
SHIELD UP TO 10mm BEFORE IGNITION COILS
A6000
ENGINE CONTROL MODULE (DME)
55
34
6
X6000
2.5 BR
1.5 BR
2.5 BR
X6492
2.5 BR
1.5 BR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


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

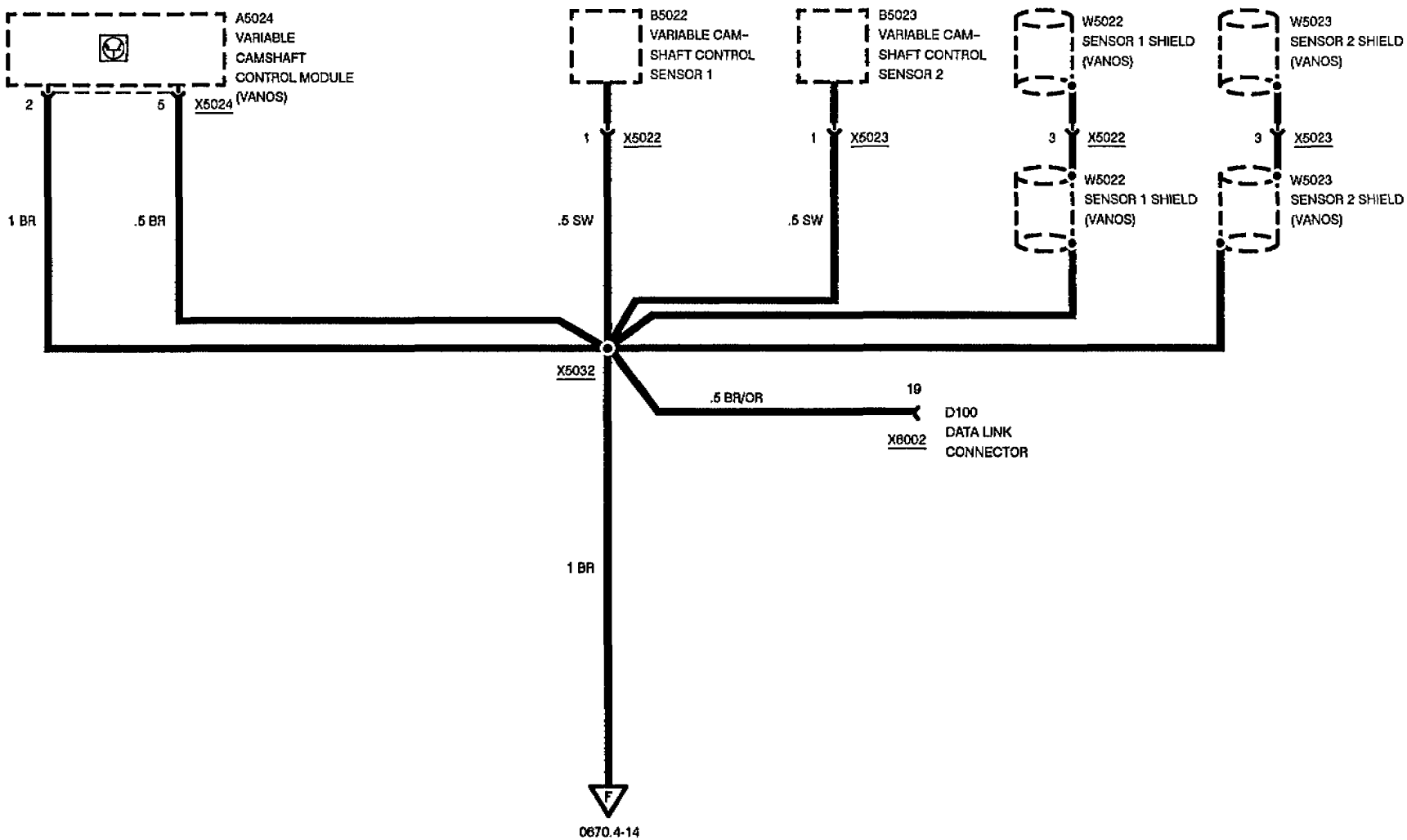
GROUND DISTRIBUTION

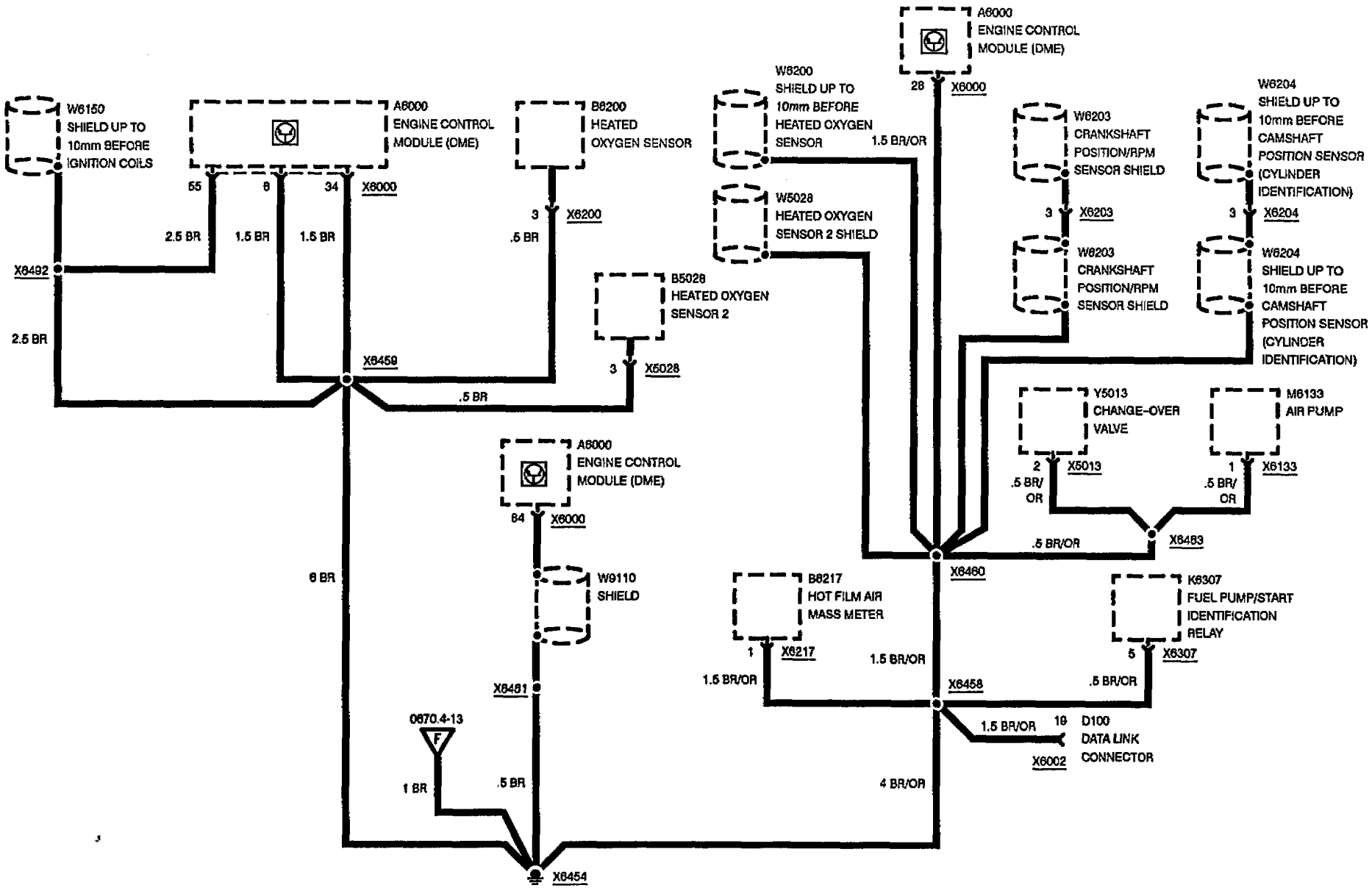
GROUND X6454



GROUND DISTRIBUTION

GROUND X6454

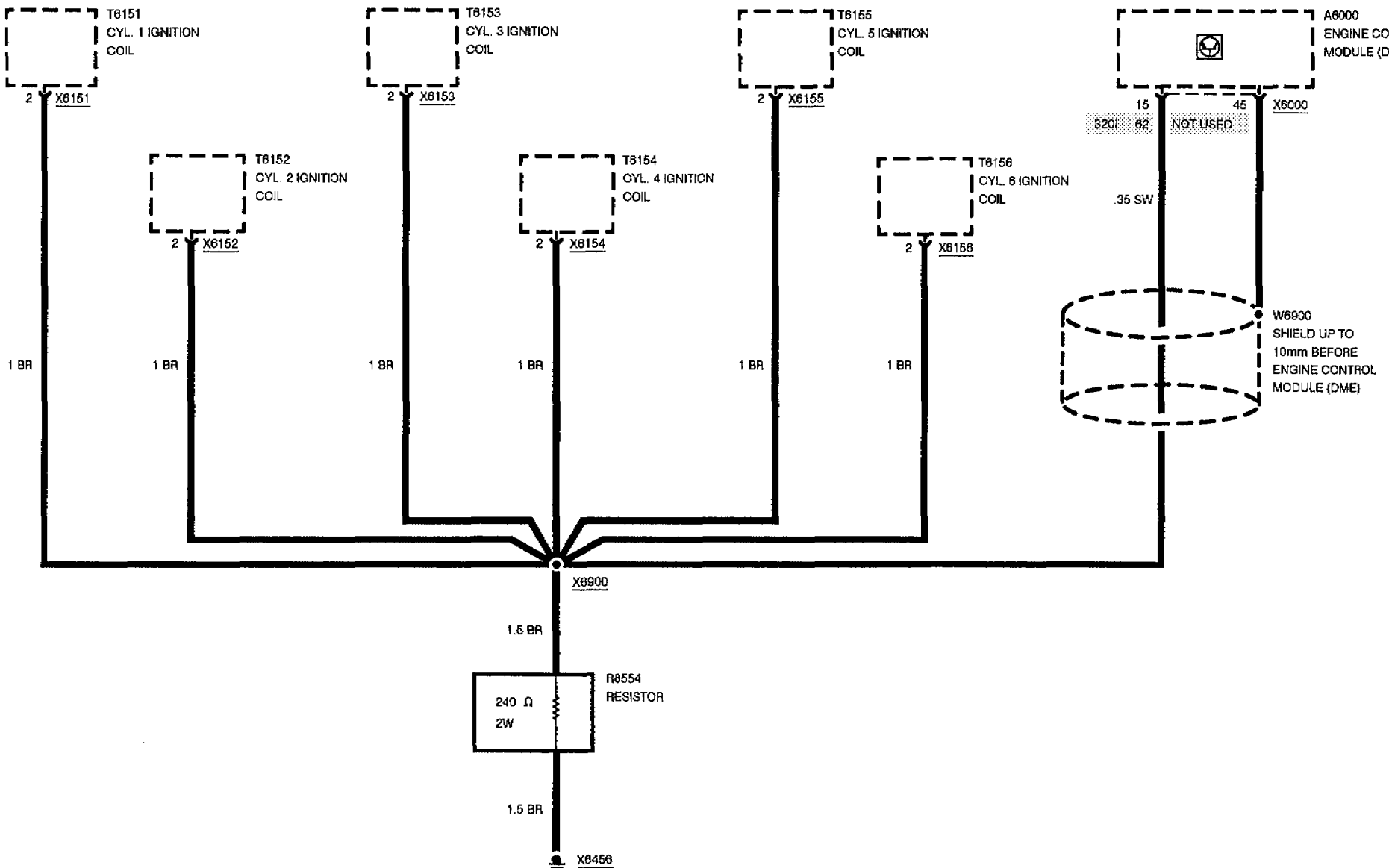



W6150
SHIELD UP TO
10mm BEFORE
IGNITION COILS
A6000
ENGINE CONTROL
MODULE (DME)
55
6
34
X6000
B6200
HEATED
OXYGEN SENSOR
3
X6200
W6200
SHIELD UP TO
10mm BEFORE
HEATED OXYGEN
SENSOR
W5028
HEATED OXYGEN
SENSOR 2 SHIELD
B5028
HEATED OXYGEN
SENSOR 2
3
X5028
A6000
ENGINE CONTROL
MODULE (DME)
28
X6000
W6203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

GROUND DISTRIBUTION

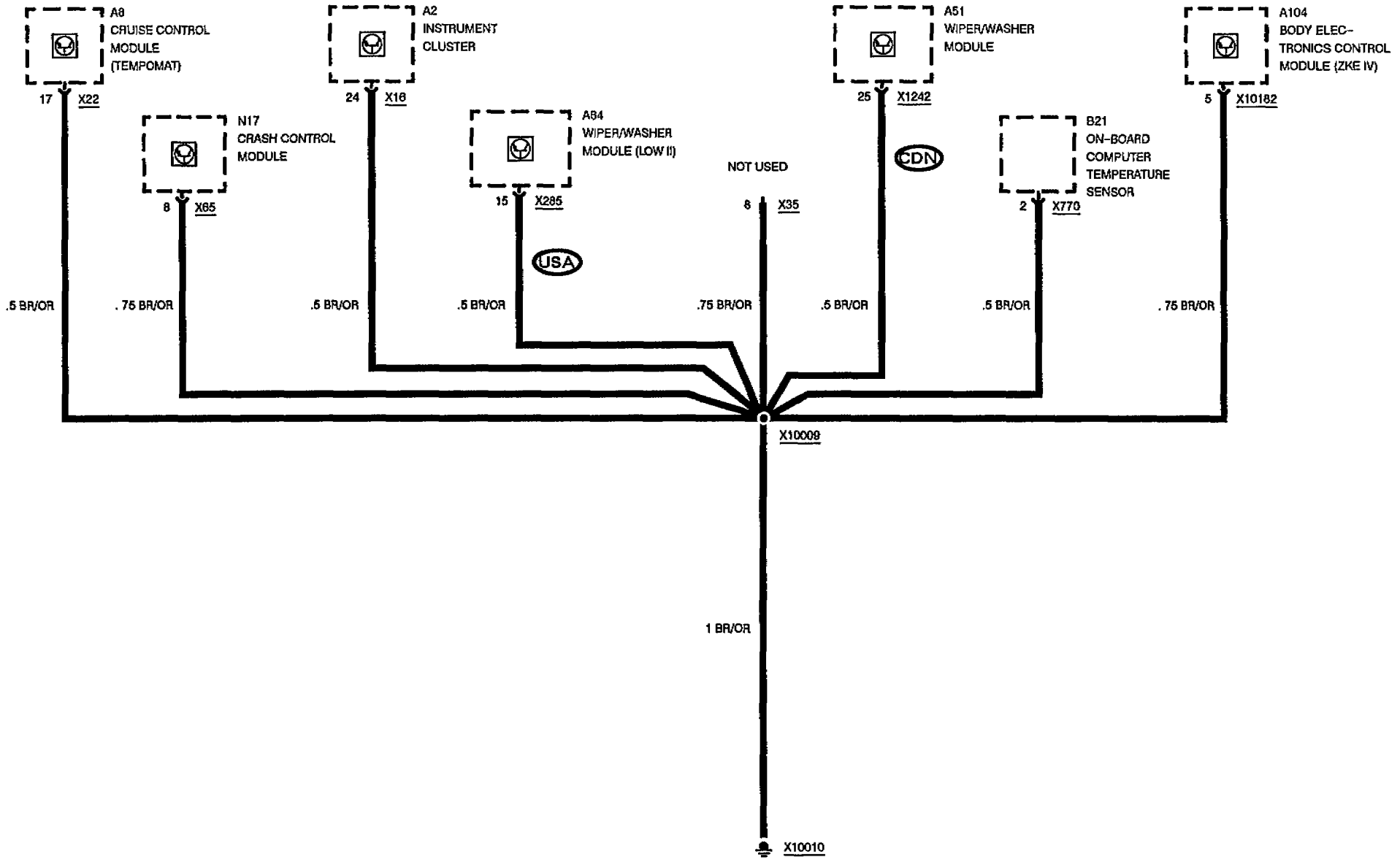
320i, 325i, M3 CDN

GROUND X6456



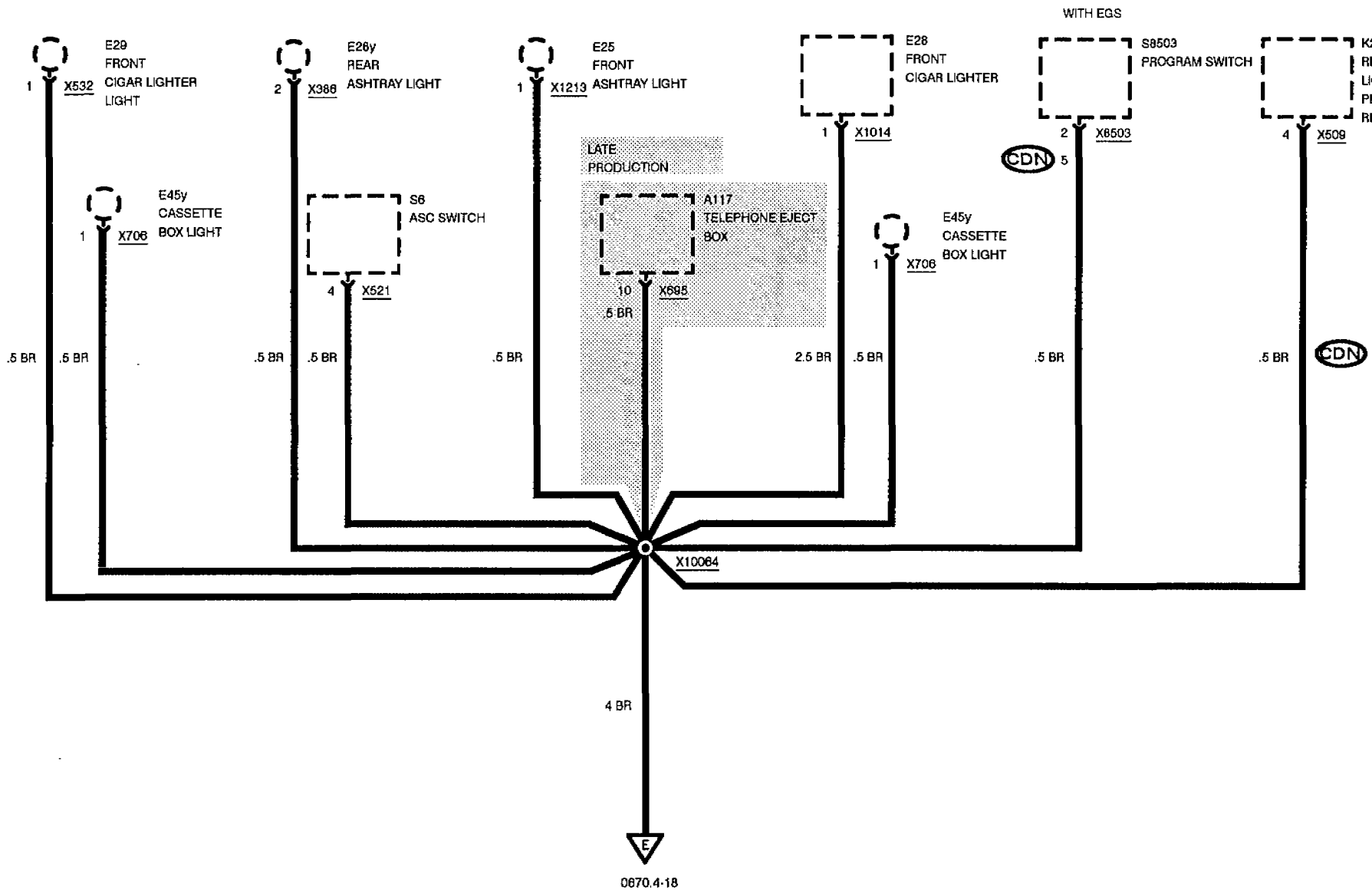
GROUND DISTRIBUTION

GROUND X10010



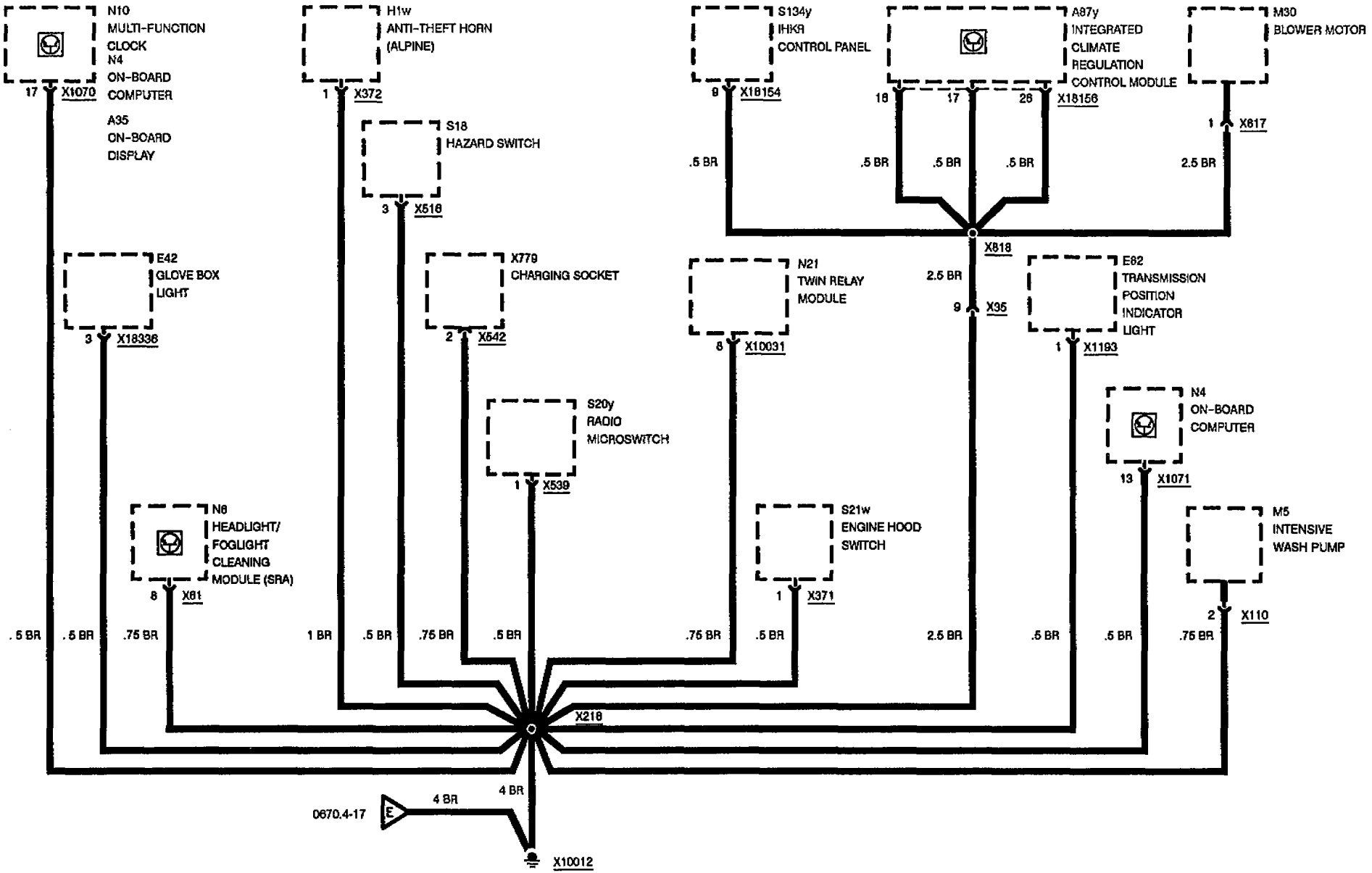
GROUND DISTRIBUTION

GROUND X10012



GROUND DISTRIBUTION

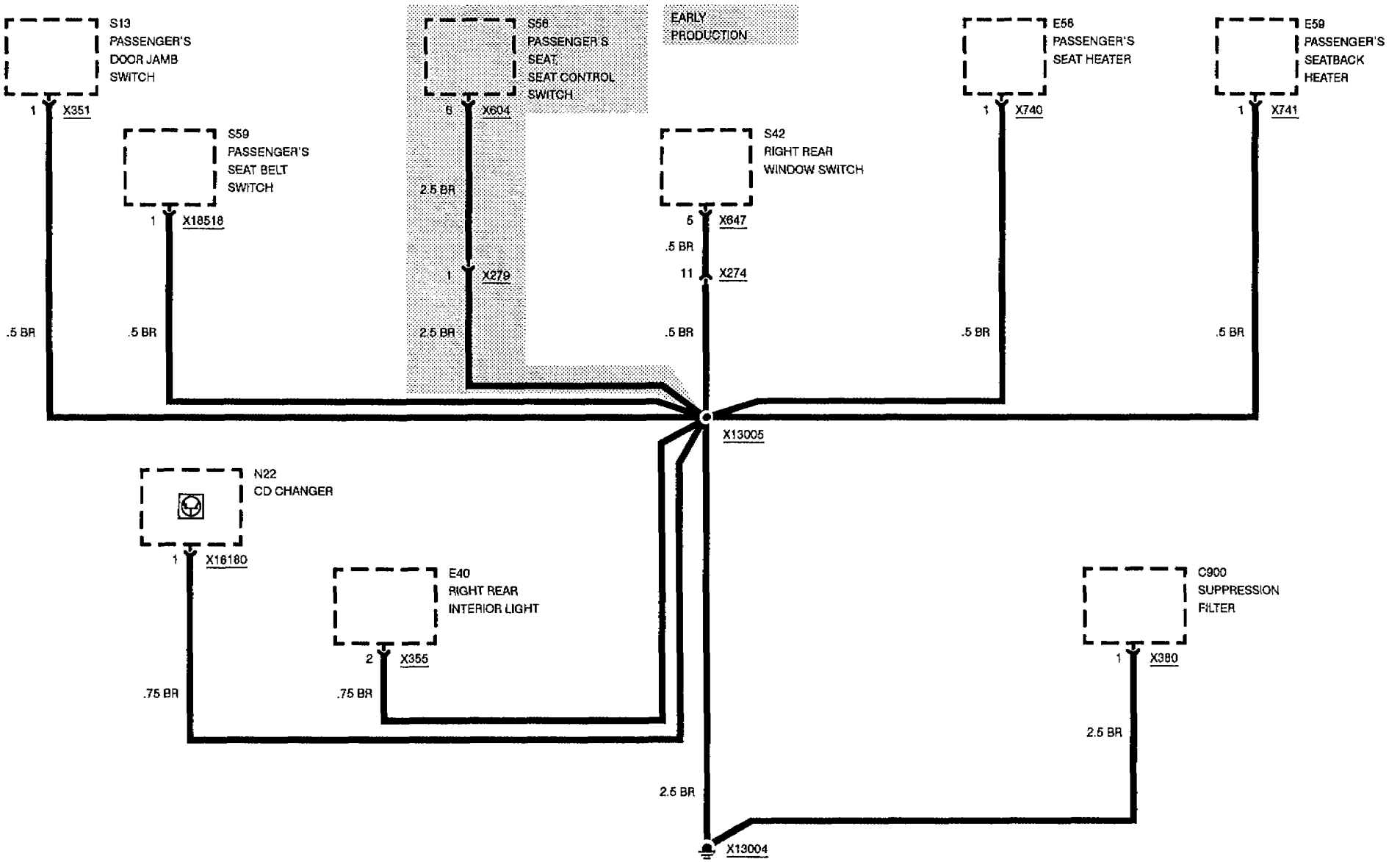
GROUND X10012



GROUND DISTRIBUTION

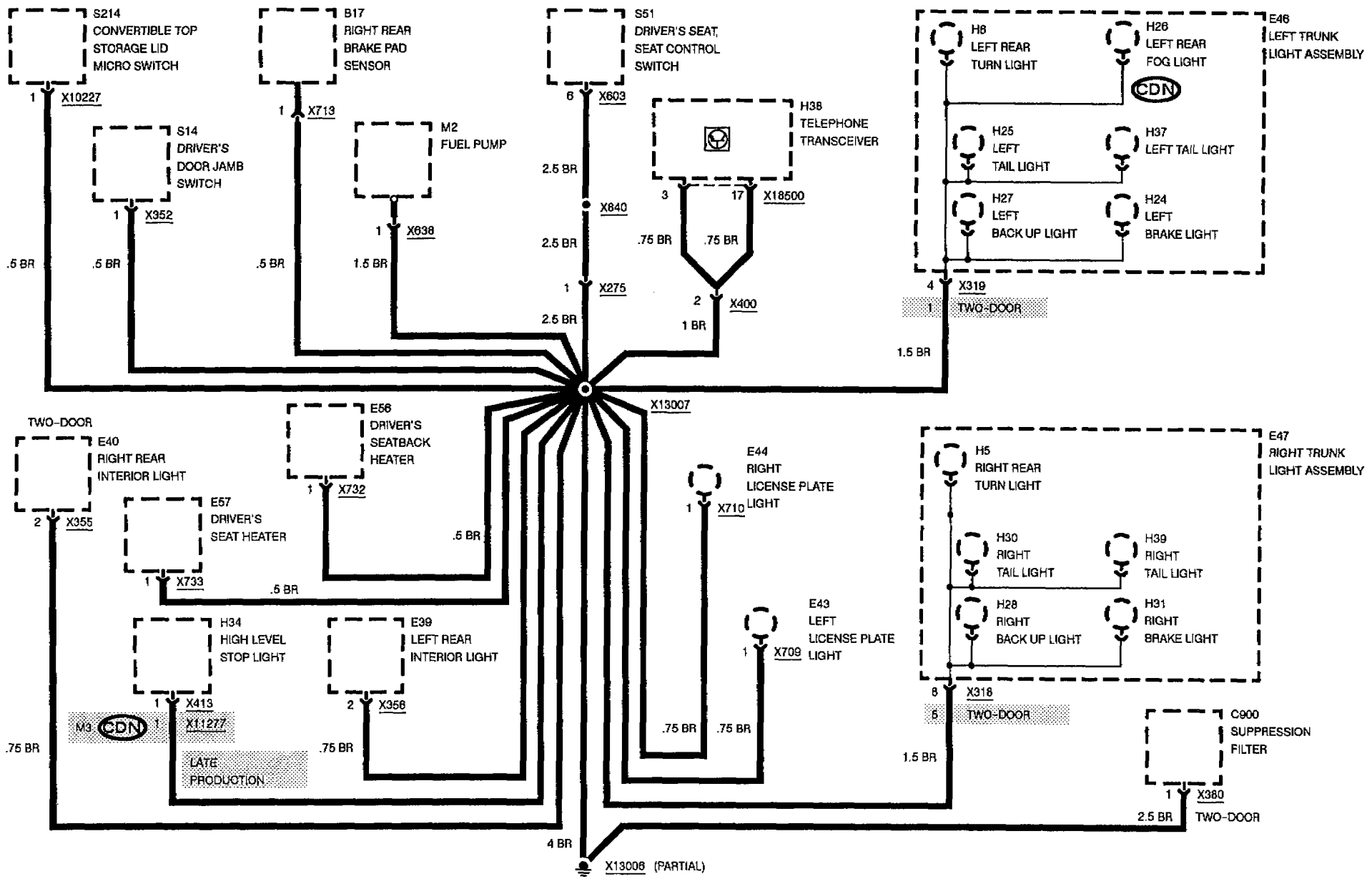
FOUR-DOOR

GROUND X13004



GROUND DISTRIBUTION

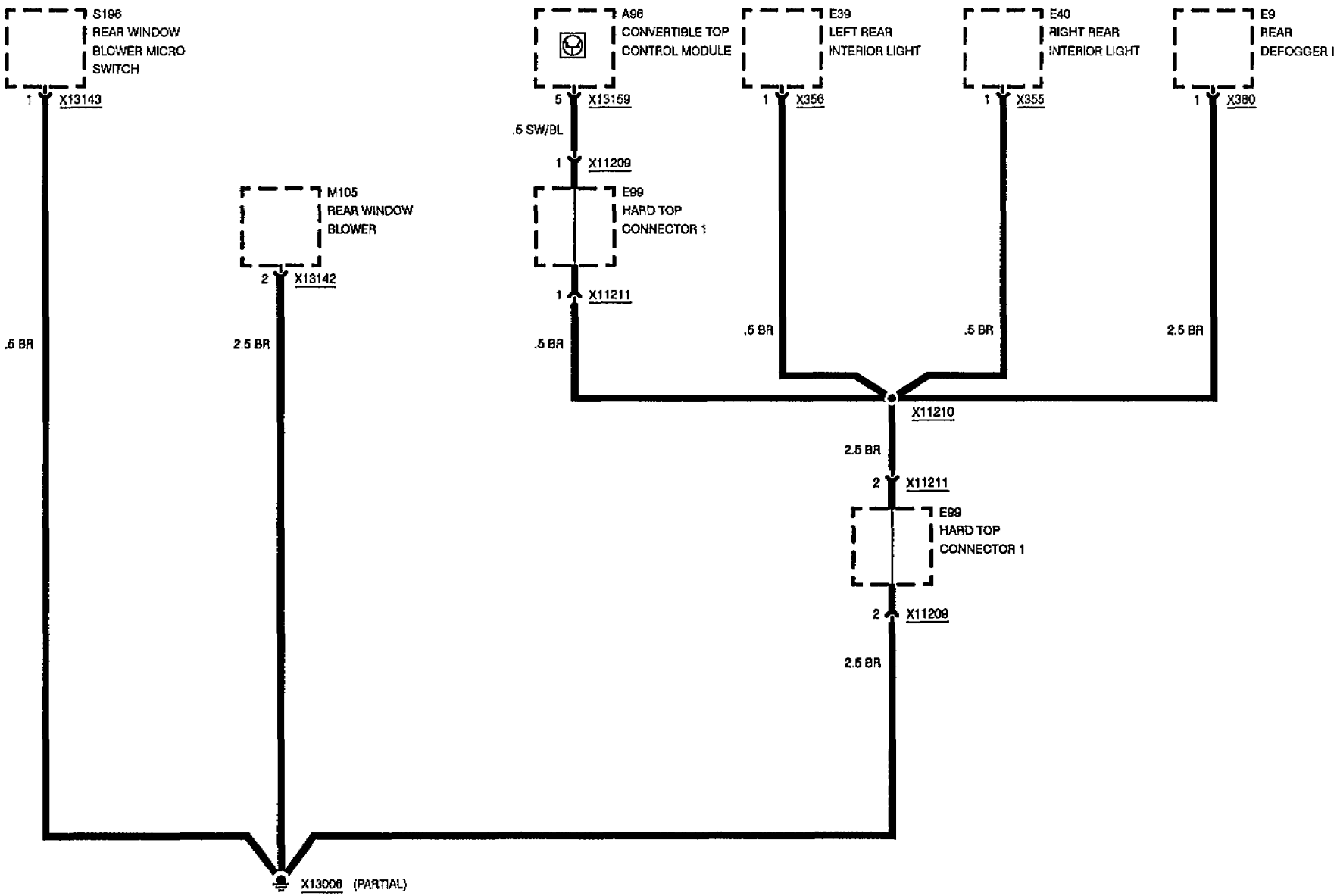
GROUND X13006



GROUND DISTRIBUTION

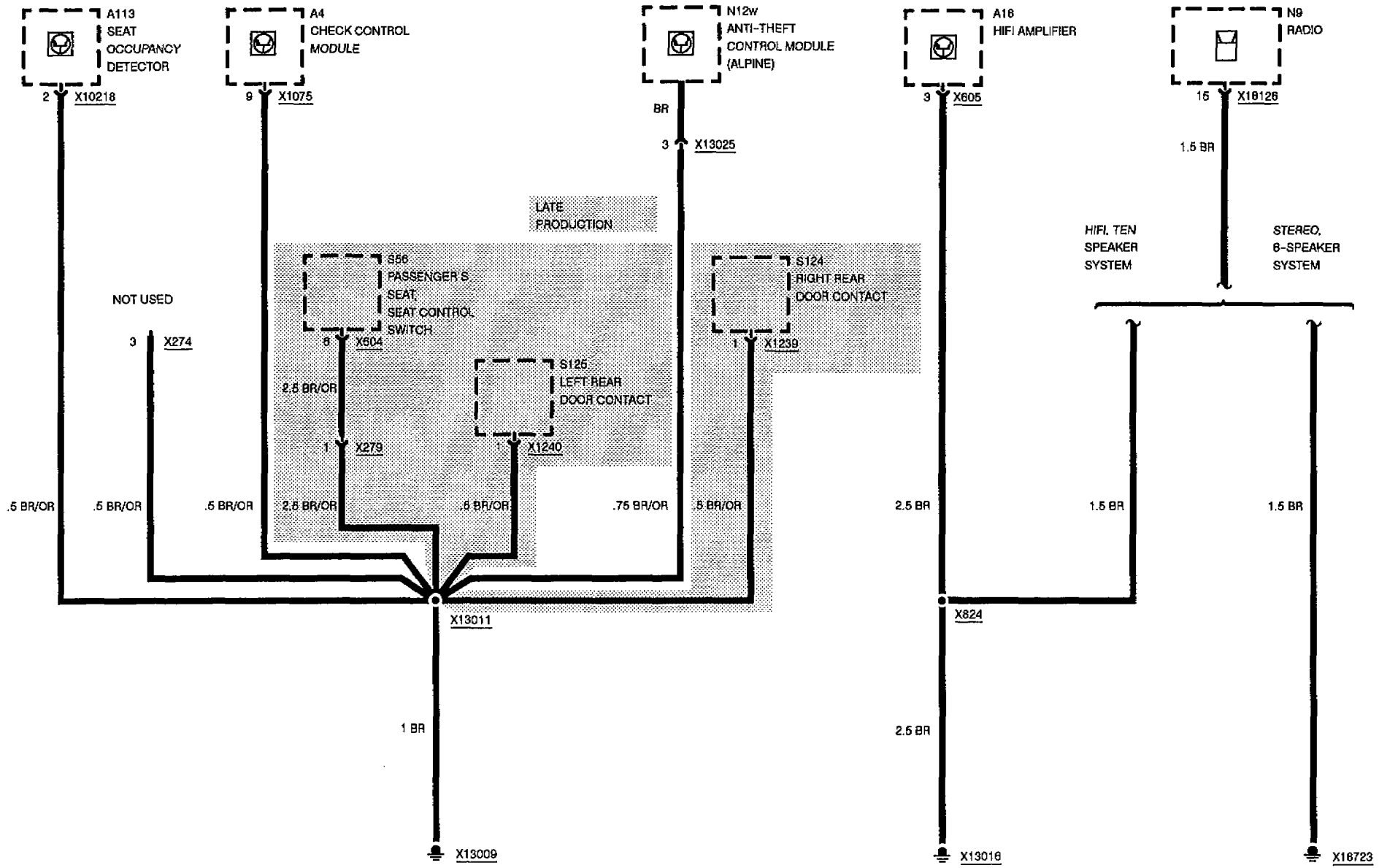
GROUND X13006

CONVERTIBLE



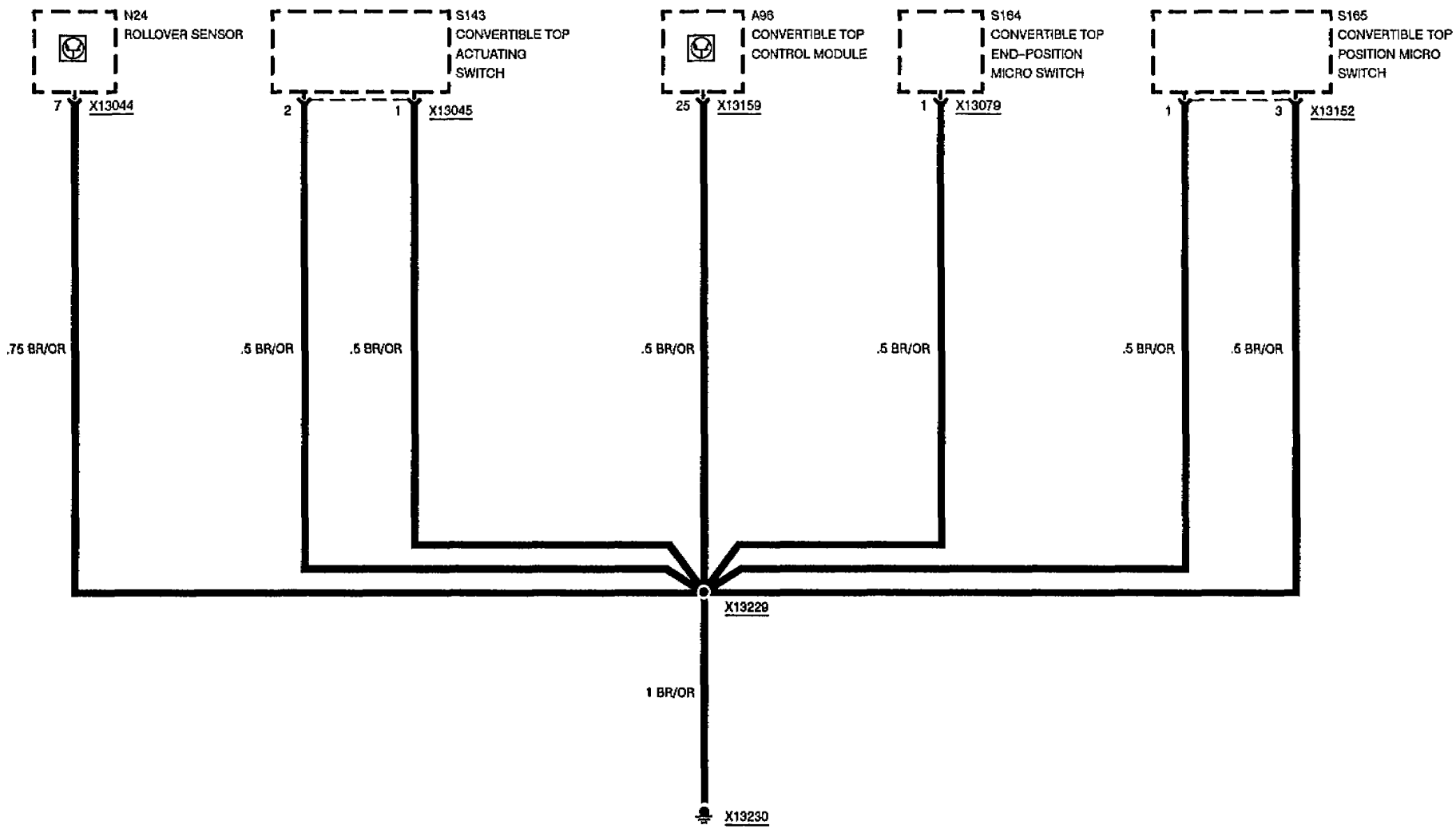
GROUND DISTRIBUTION

GROUNDS X13009, X13016, AND X18723



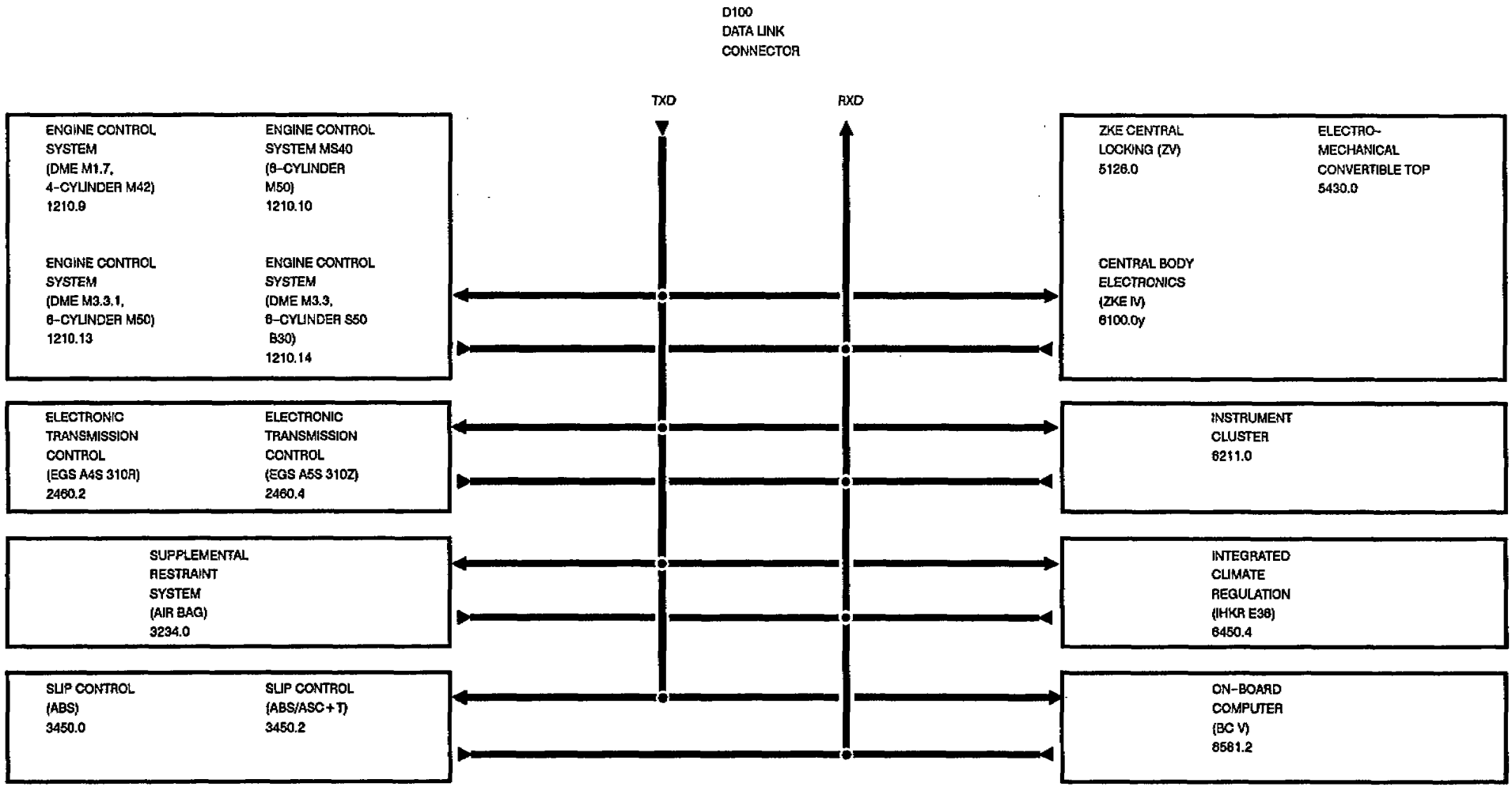
GROUND DISTRIBUTION

GROUND X13230

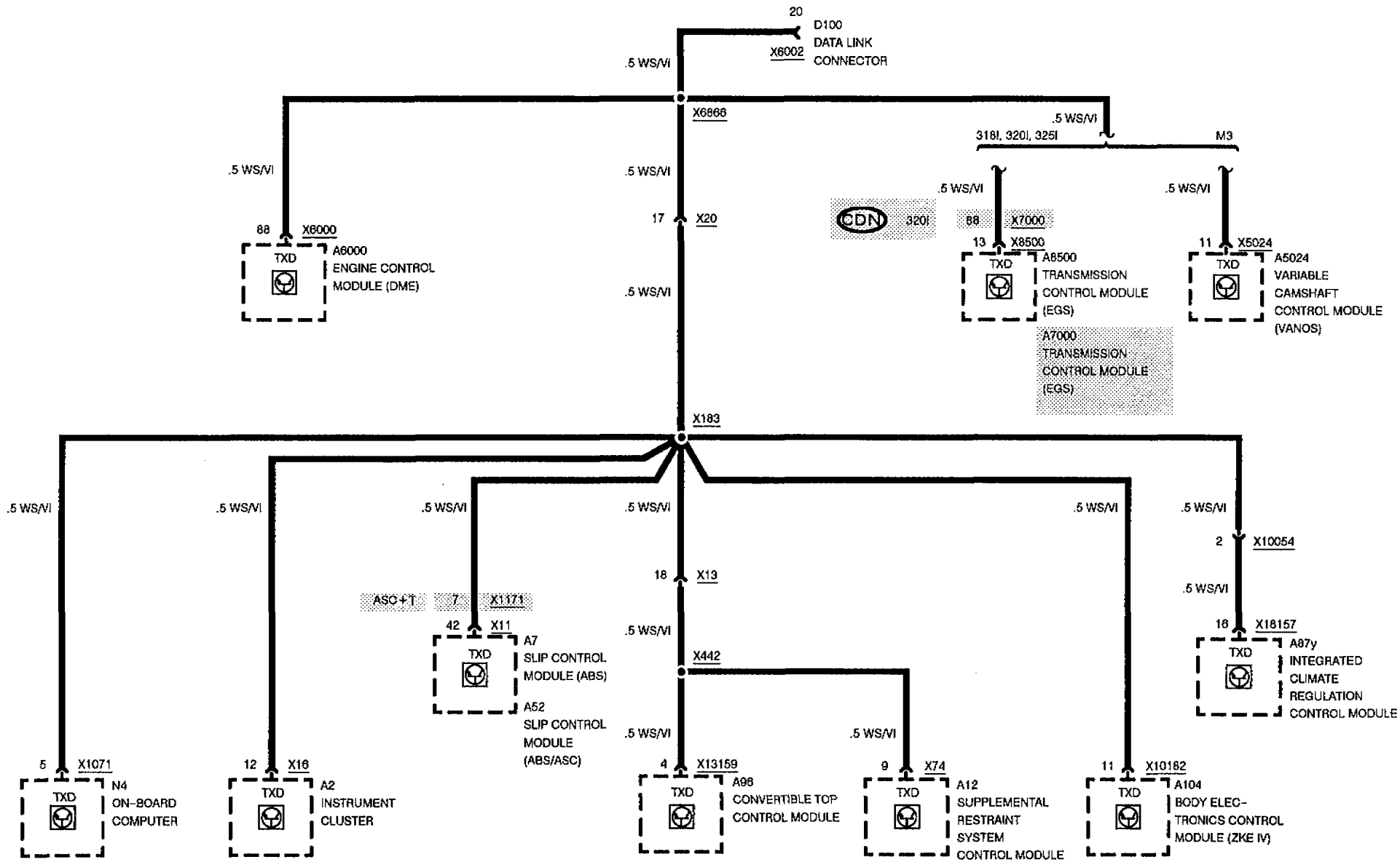


DATA LINK

BLOCK DIAGRAM

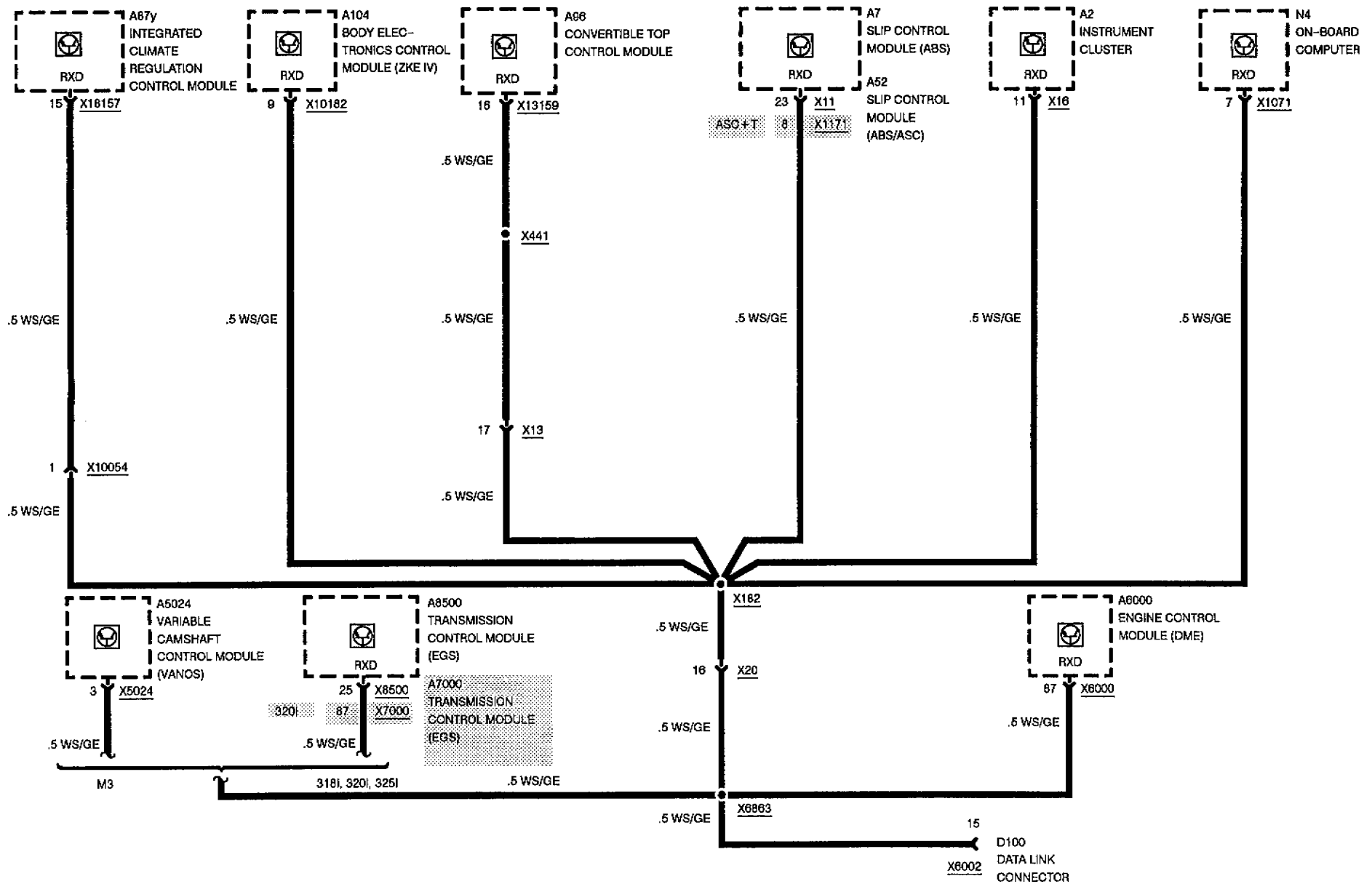


DATA LINK
TXD, PIN 20



DATA LINK

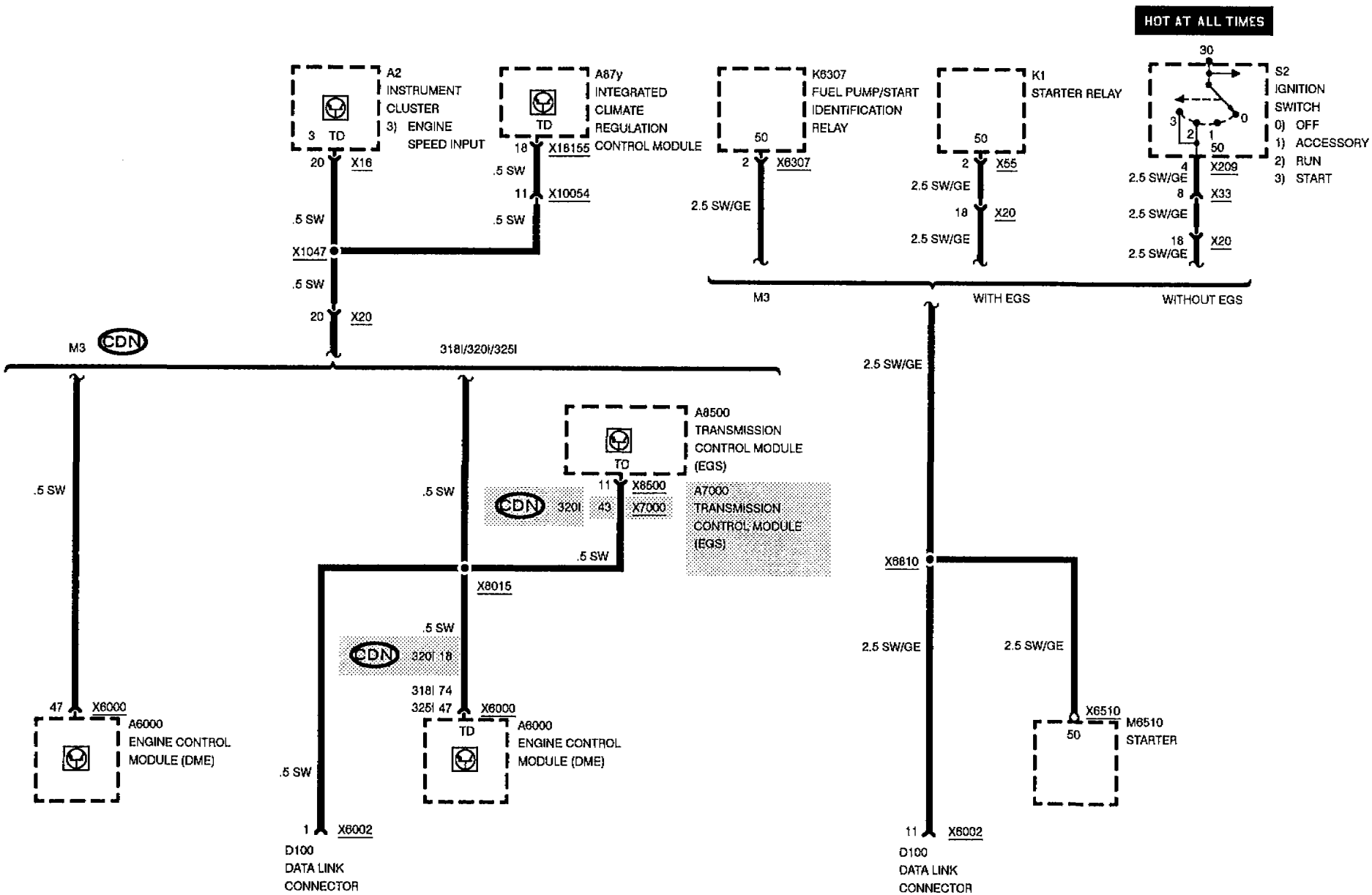
RXD, PIN 15



DATA LINK

DATA LINK CONNECTOR PINS 1 AND 11

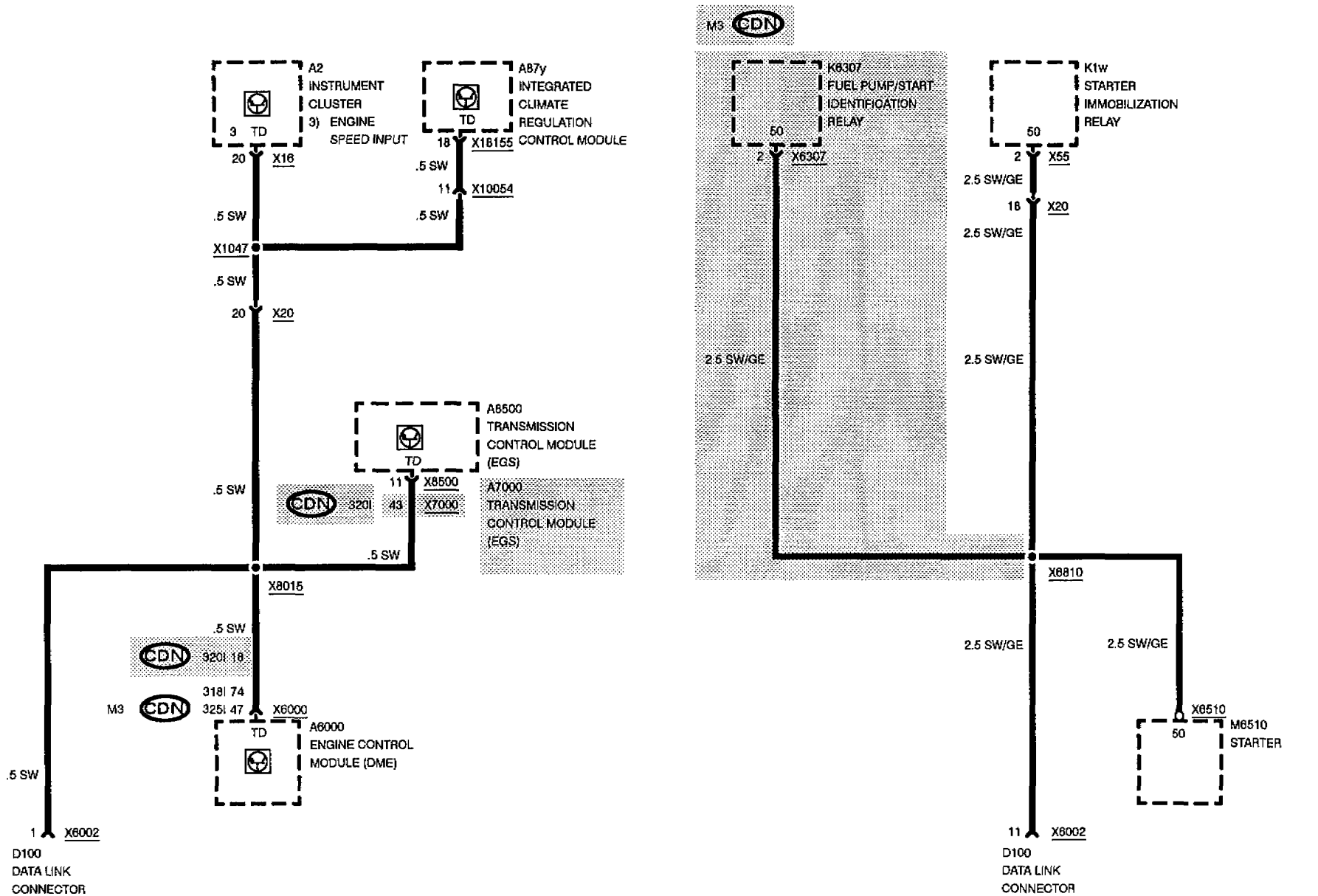
EARLY PRODUCTION



DATA LINK

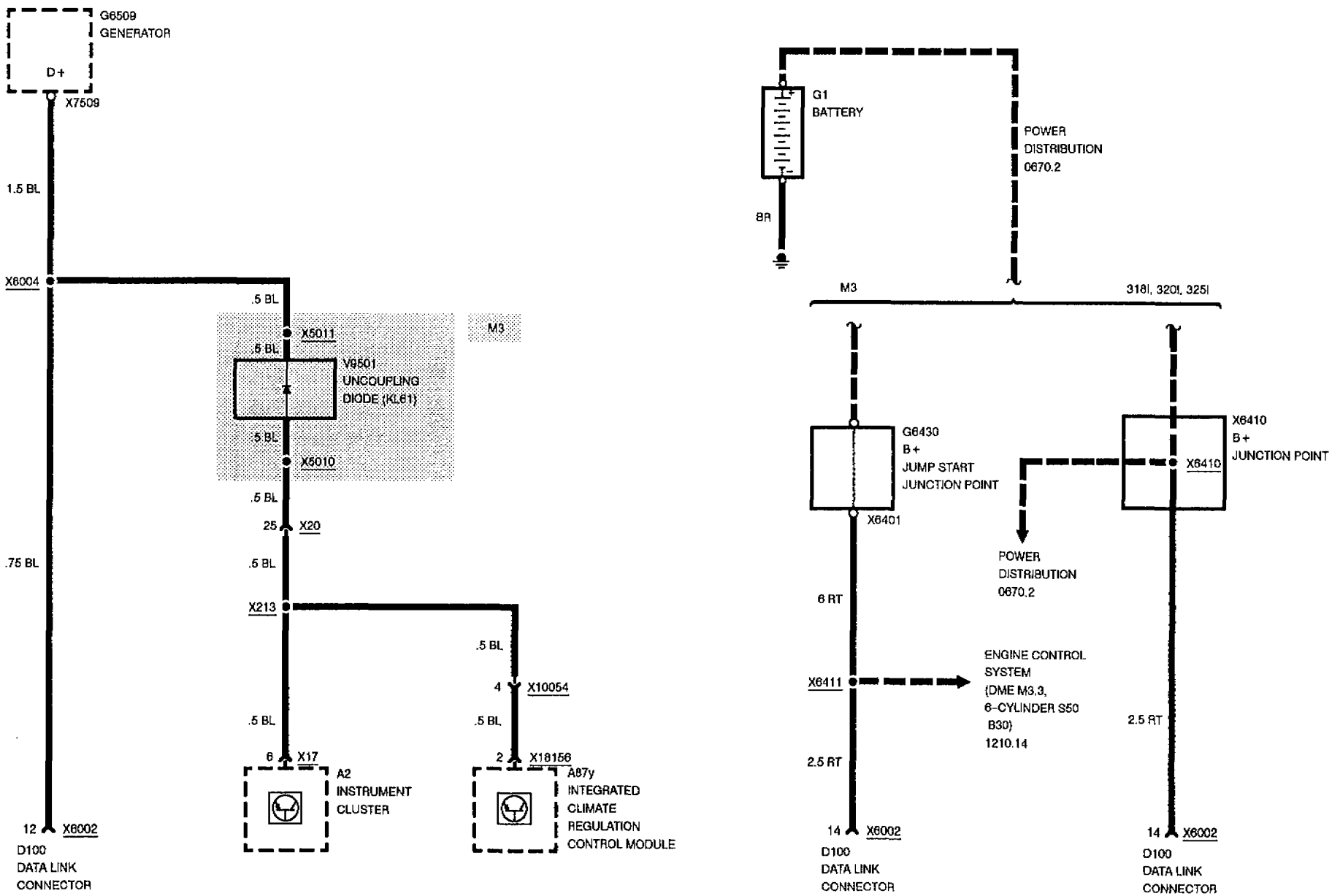
DATA LINK CONNECTOR PINS 1 AND 11

LATE PRODUCTION



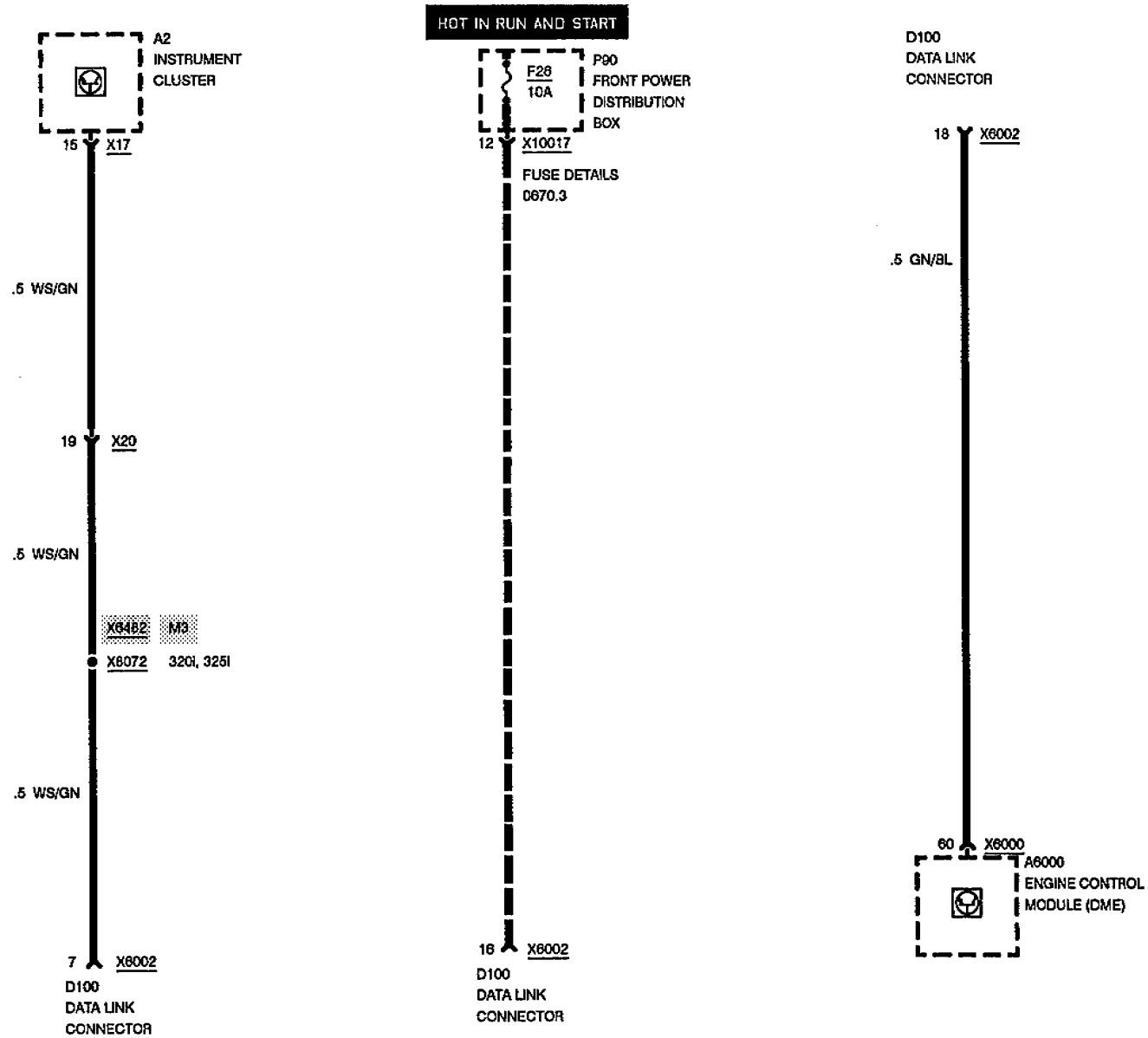
DATA LINK

DATA LINK CONNECTOR PINS 12 AND 14



DATA LINK

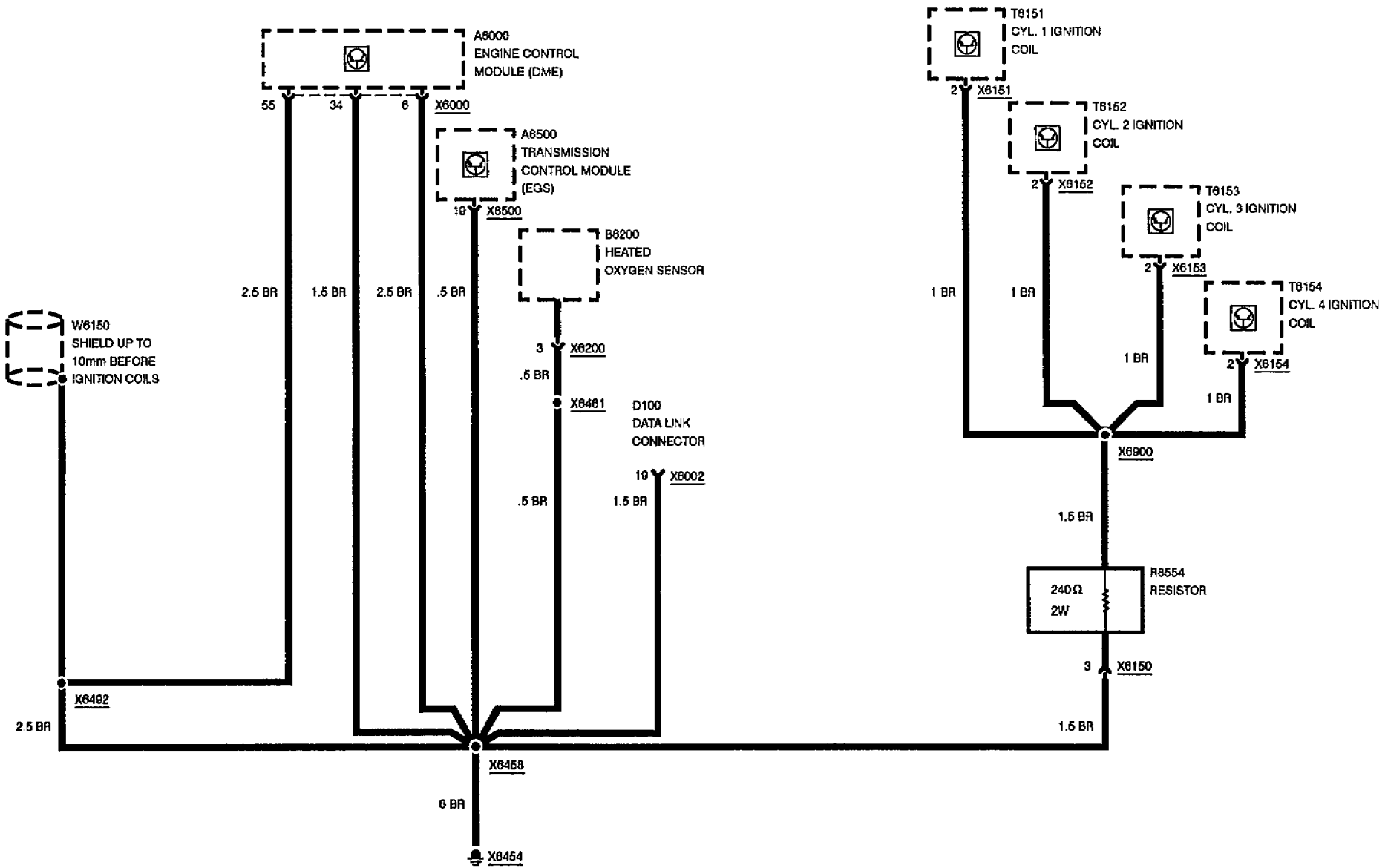
DATA LINK CONNECTOR PINS 7, 16, AND 18



DATA LINK

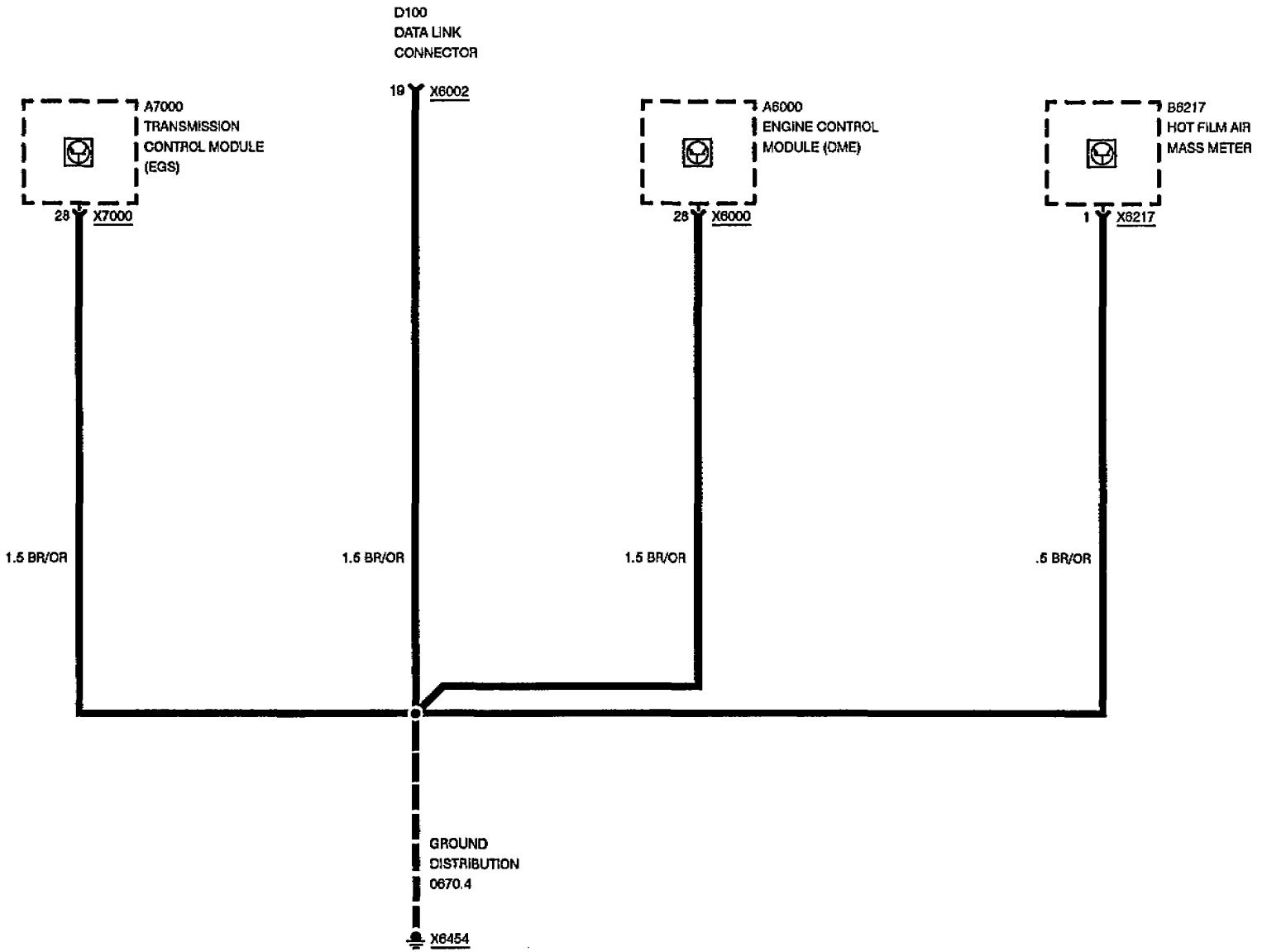
DATA LINK CONNECTOR PIN 19

318i



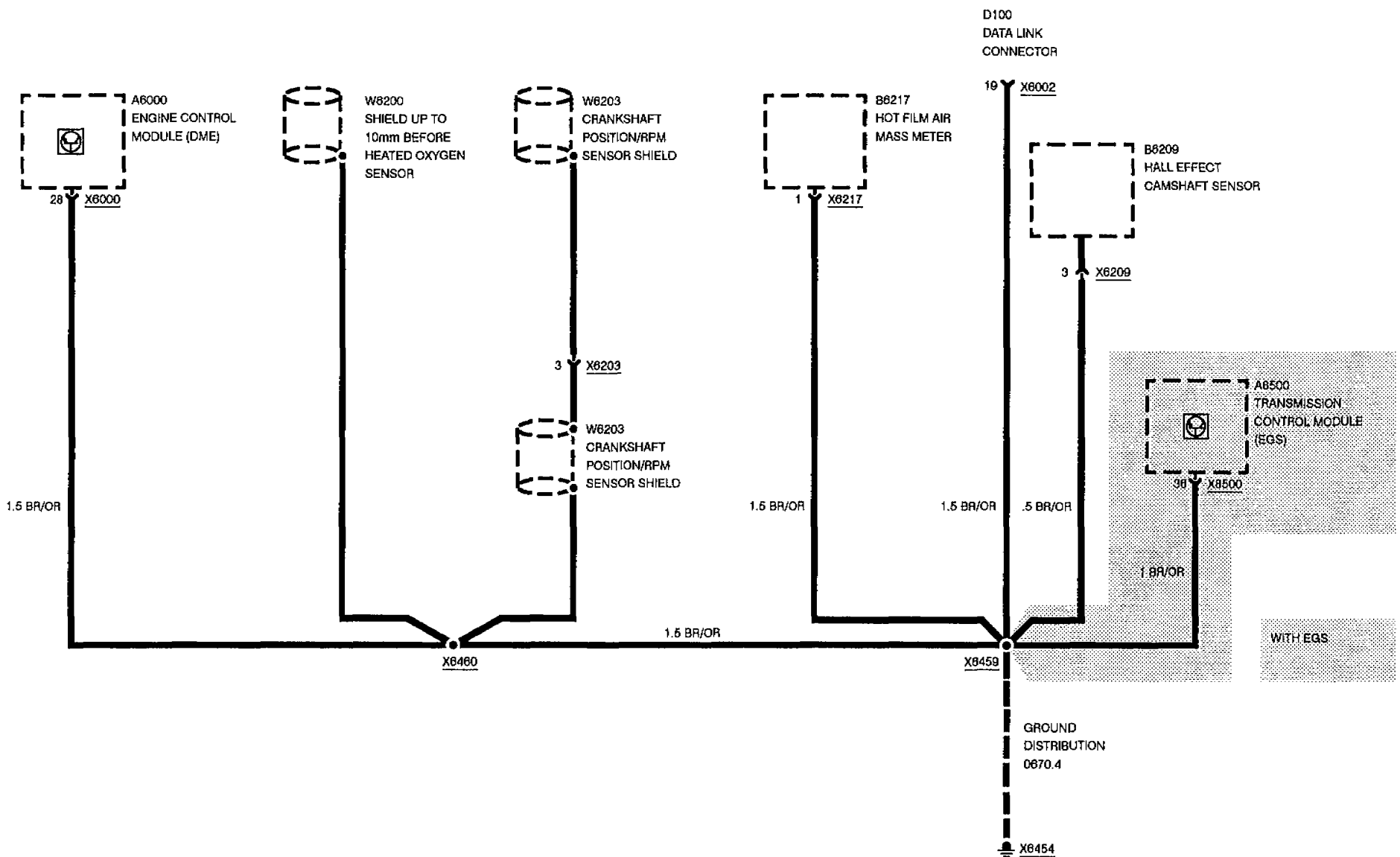
DATA LINK

DATA LINK CONNECTOR PIN 19

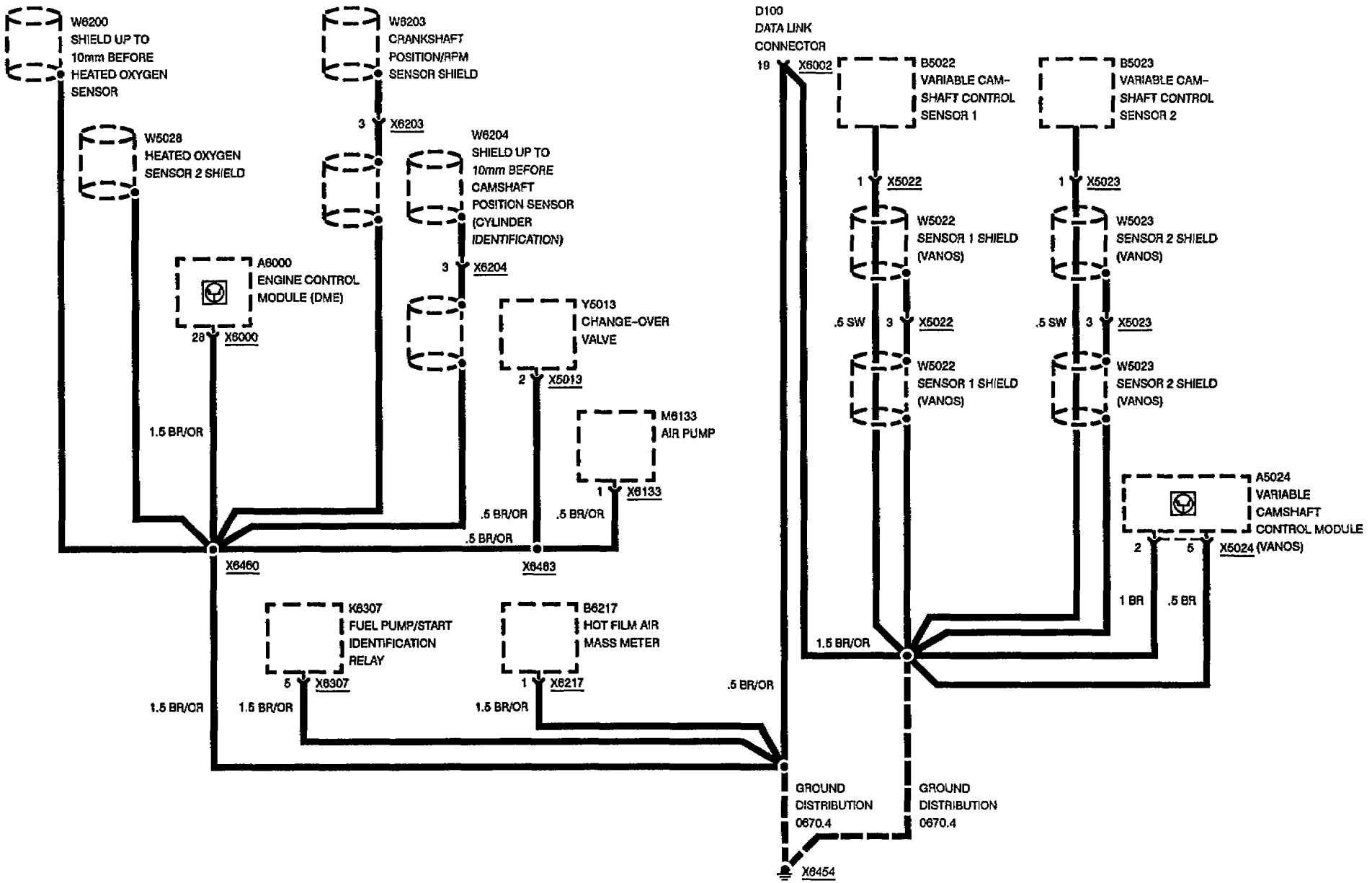


DATA LINK

DATA LINK CONNECTOR PIN 19

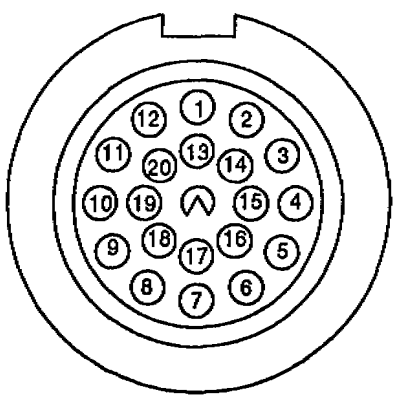


DATA LINK CONNECTOR PIN 19

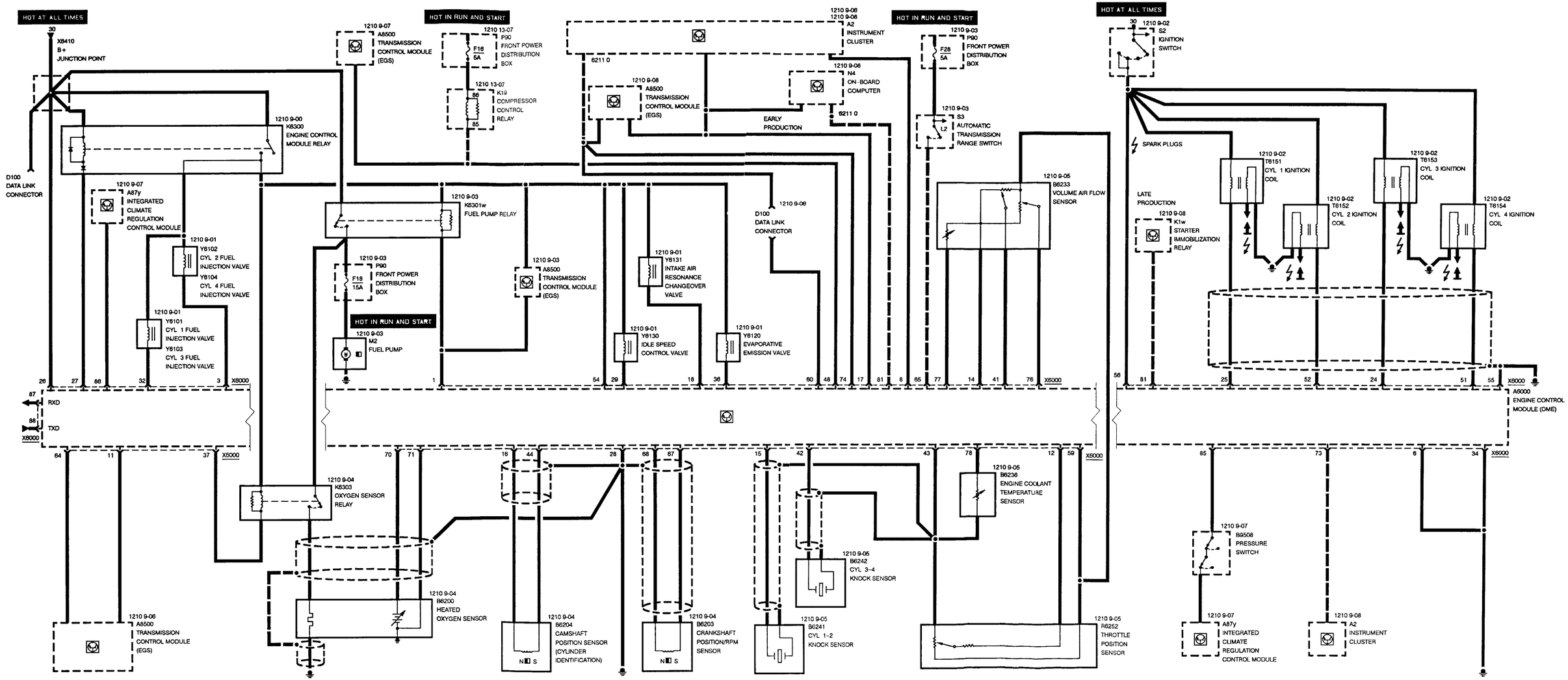


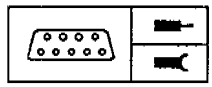
DATA LINK

DATA LINK CONNECTOR (X6002)



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


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

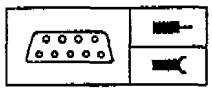


Pin Assignments

X6000

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

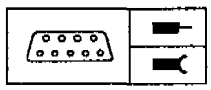
E = Input, A = Output, M = Ground



Pin Assignments

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

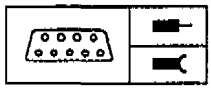
E = Input, A = Output, M = Ground



Pin Assignments

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

E = Input, A = Output, M = Ground



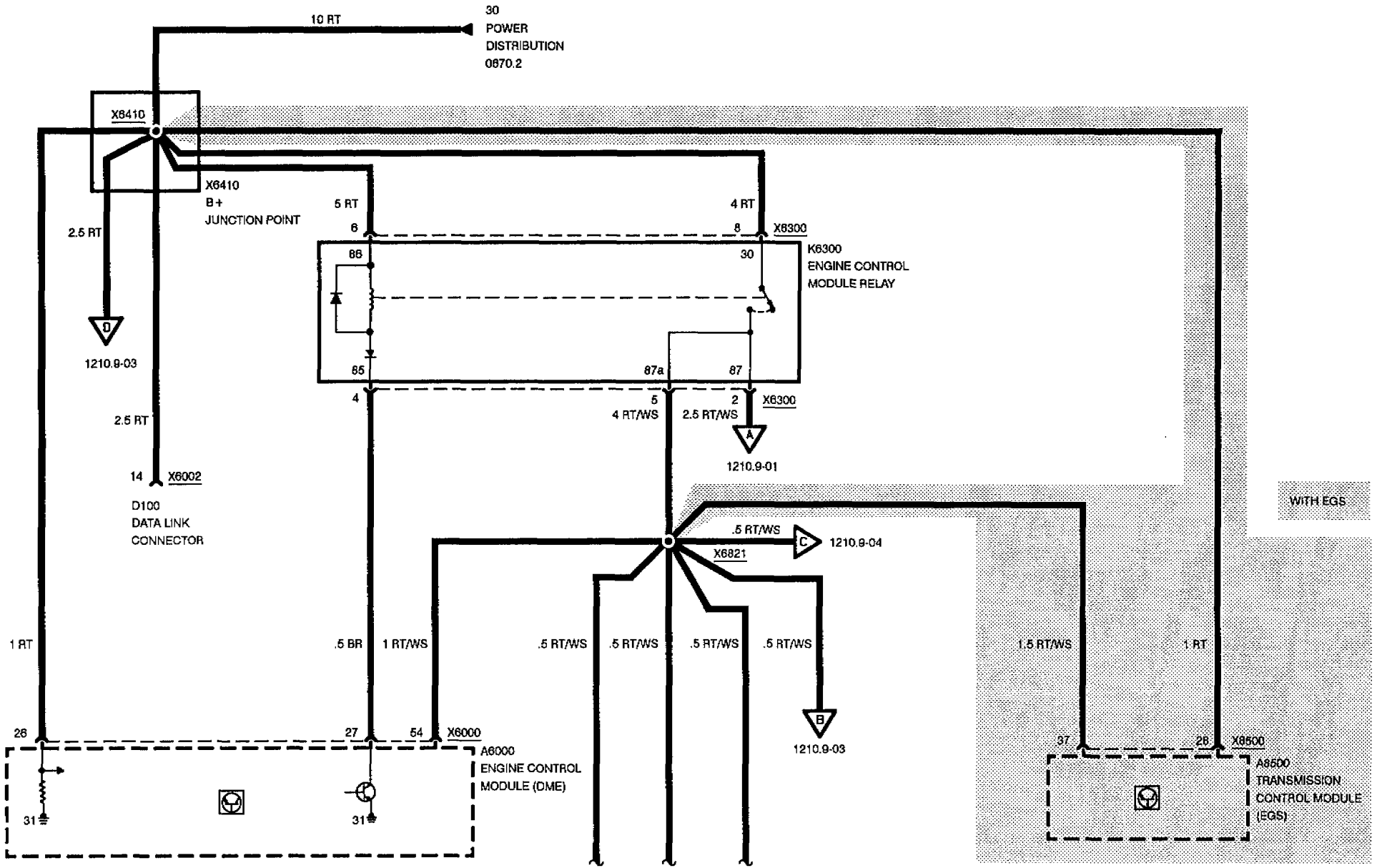
Pin Assignments

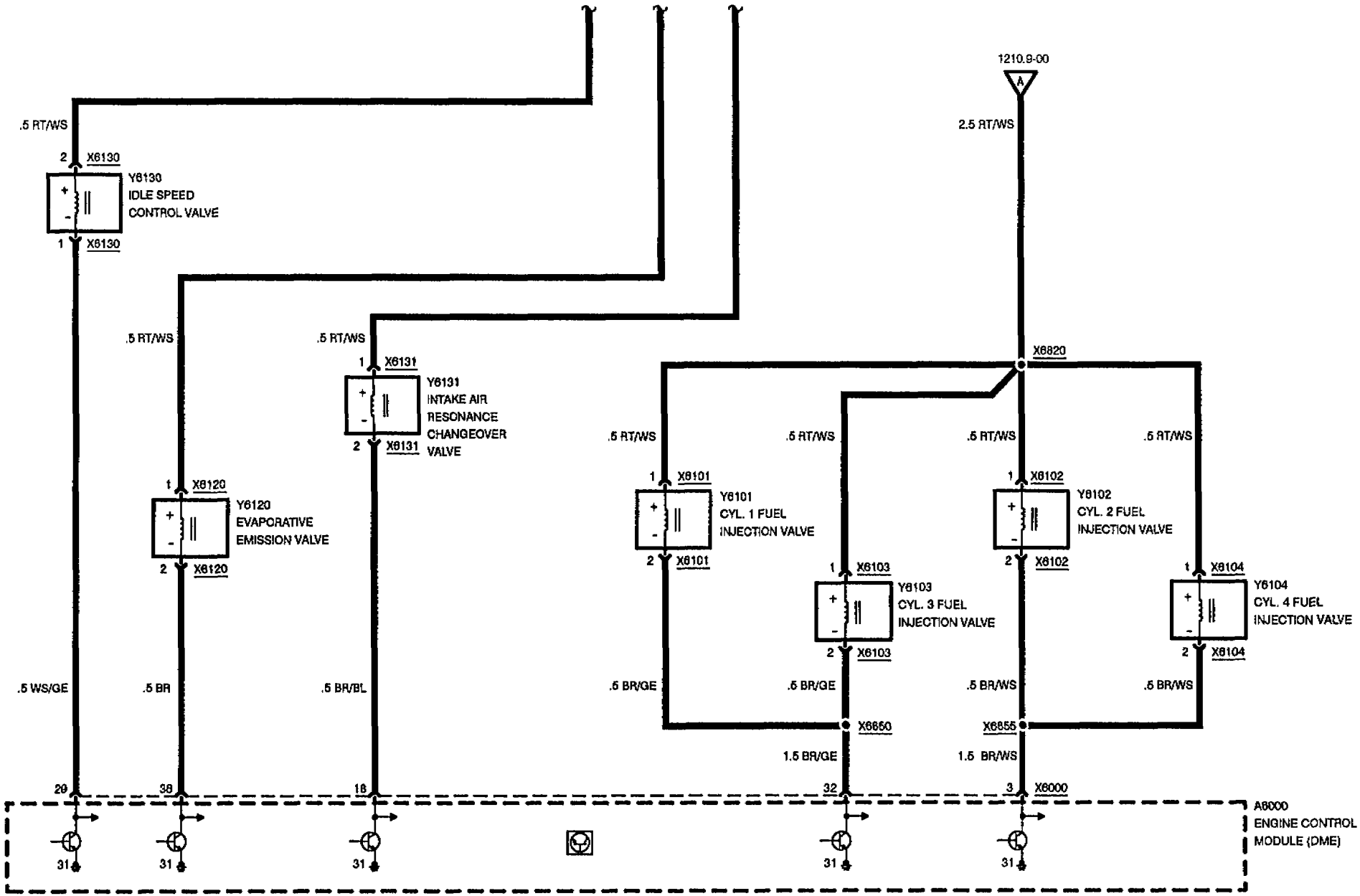
Pin	Type	Description/Function	Connection
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

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

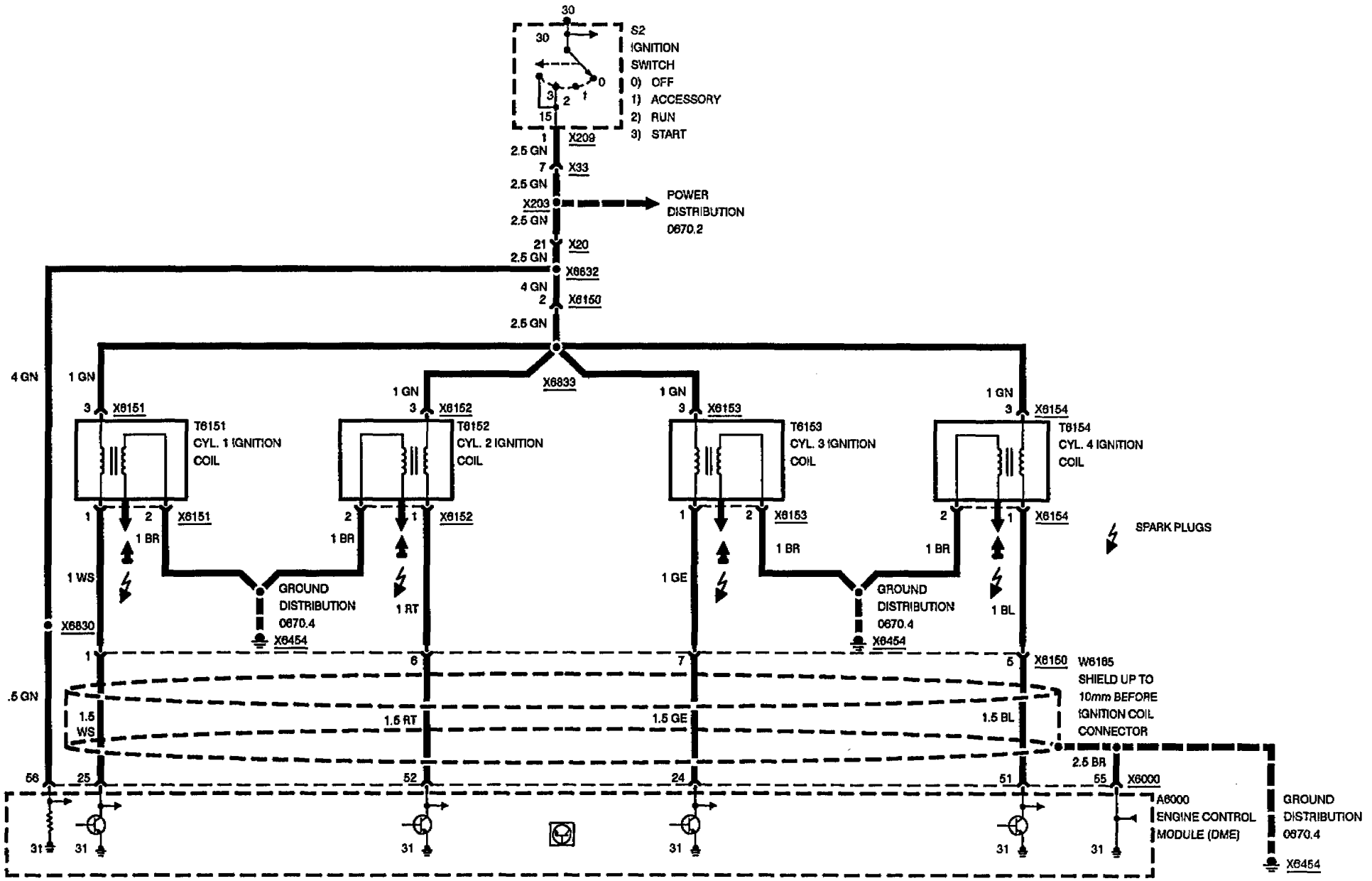
POWER, FUEL INJECTION VALVES




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

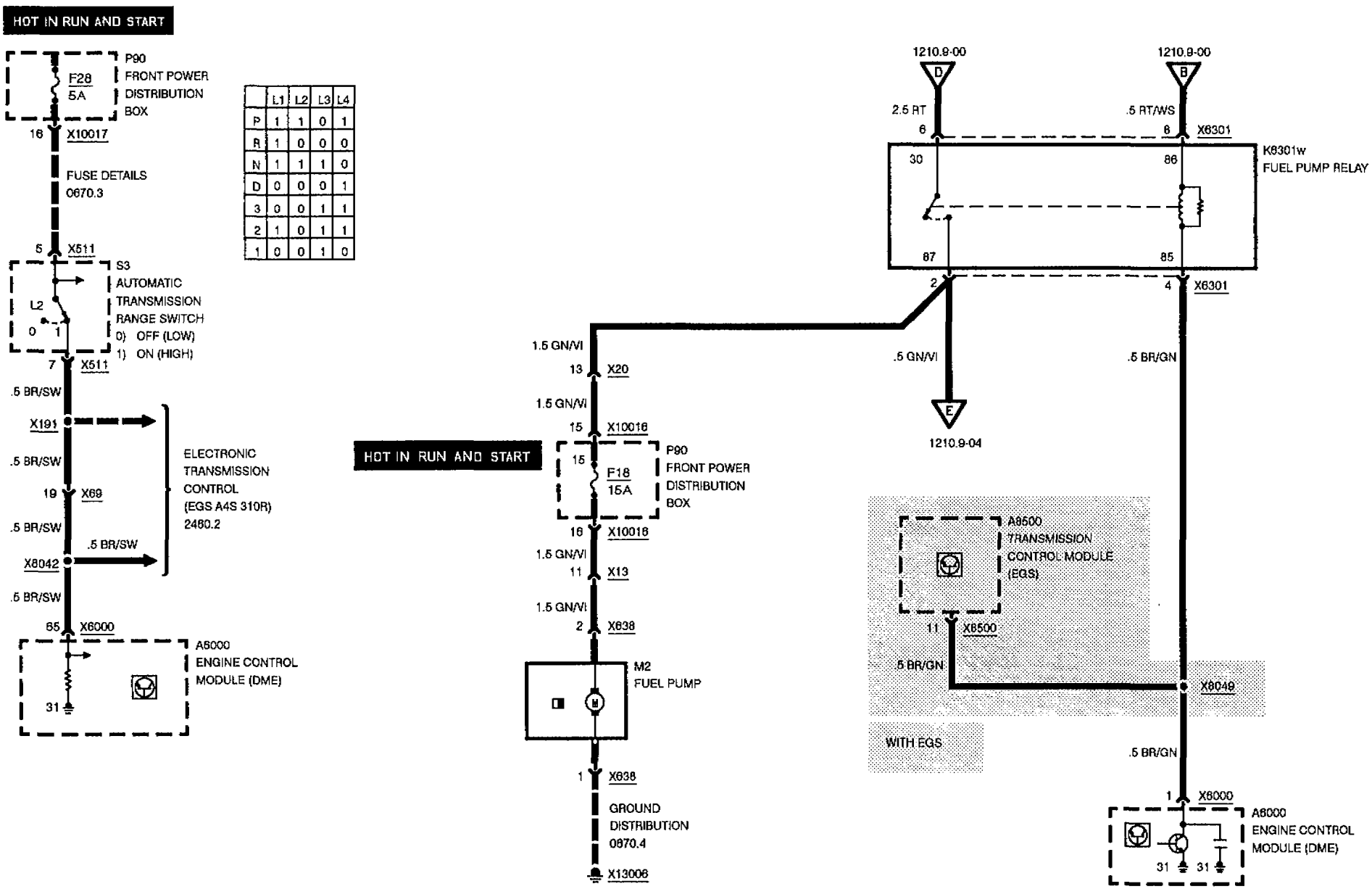
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

IGNITION COILS



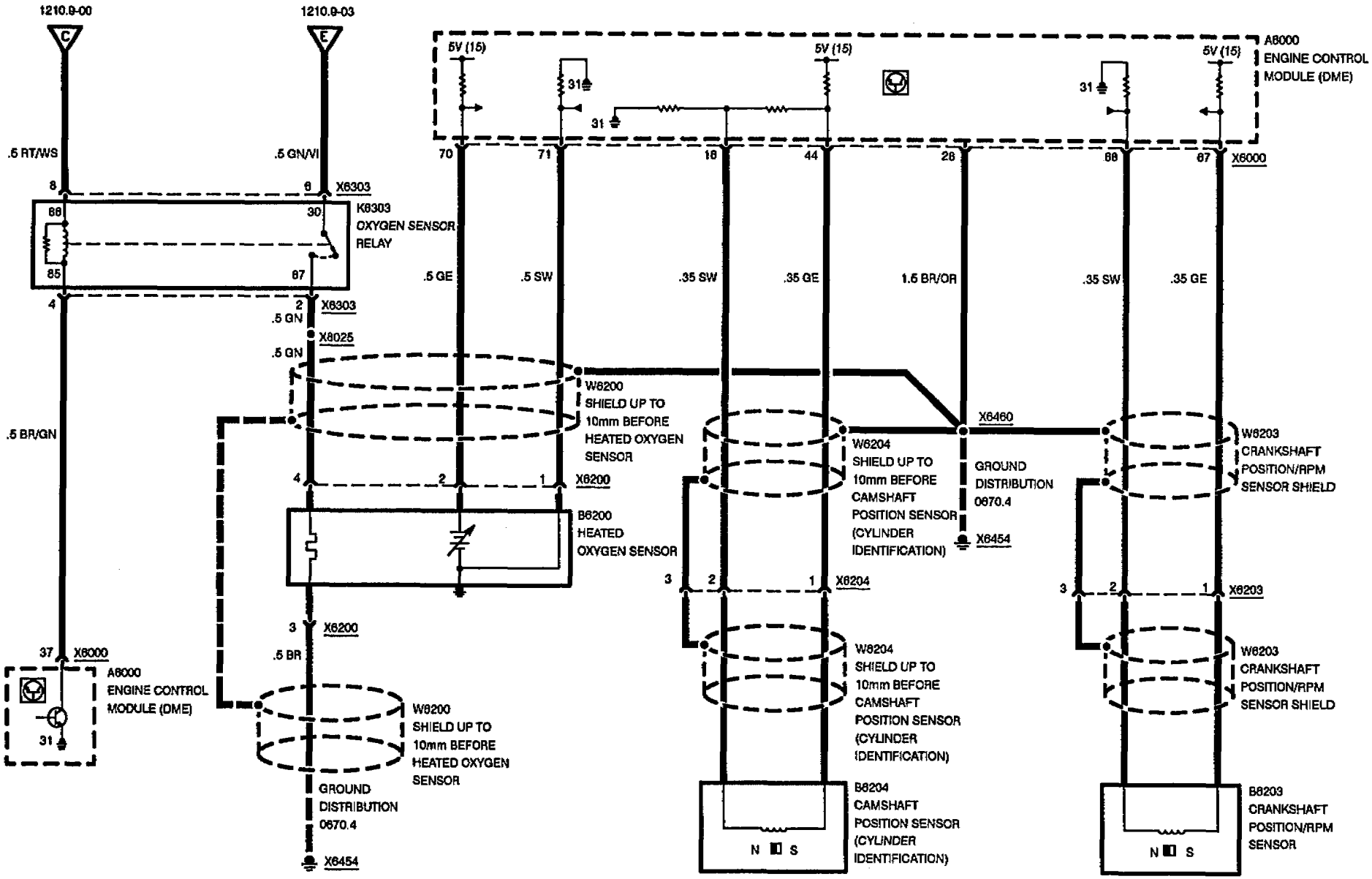
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

FUEL PUMP

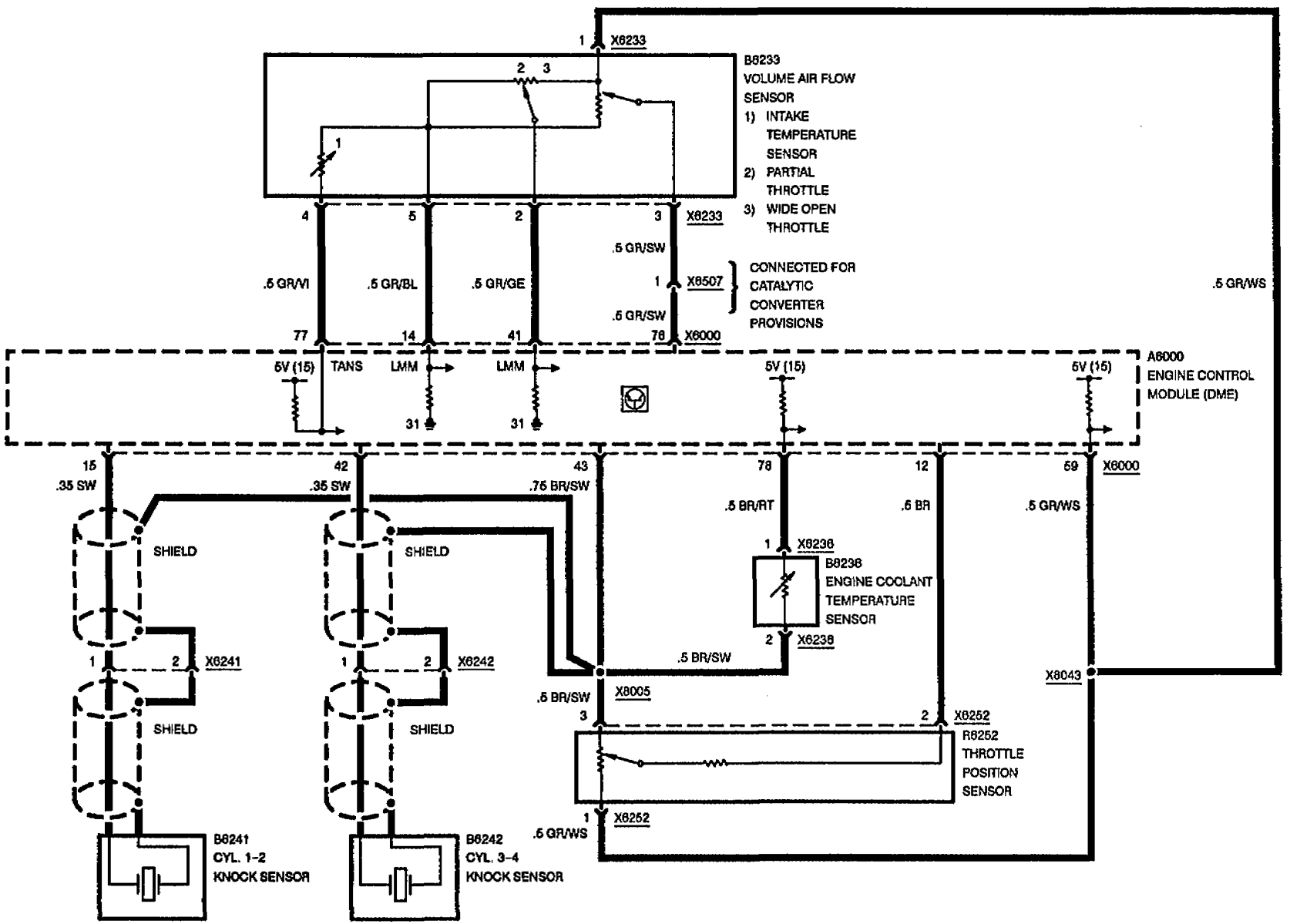


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

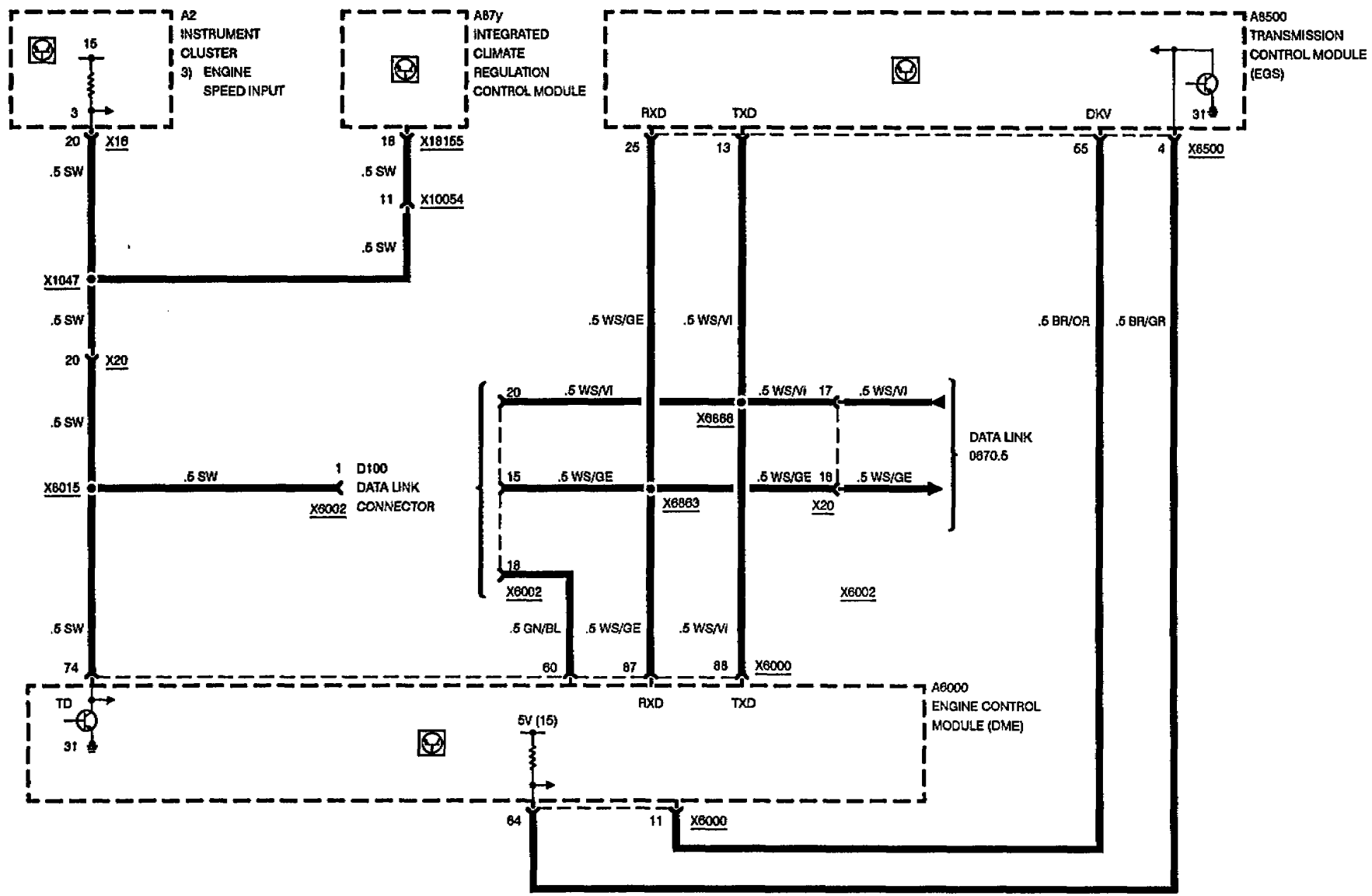


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

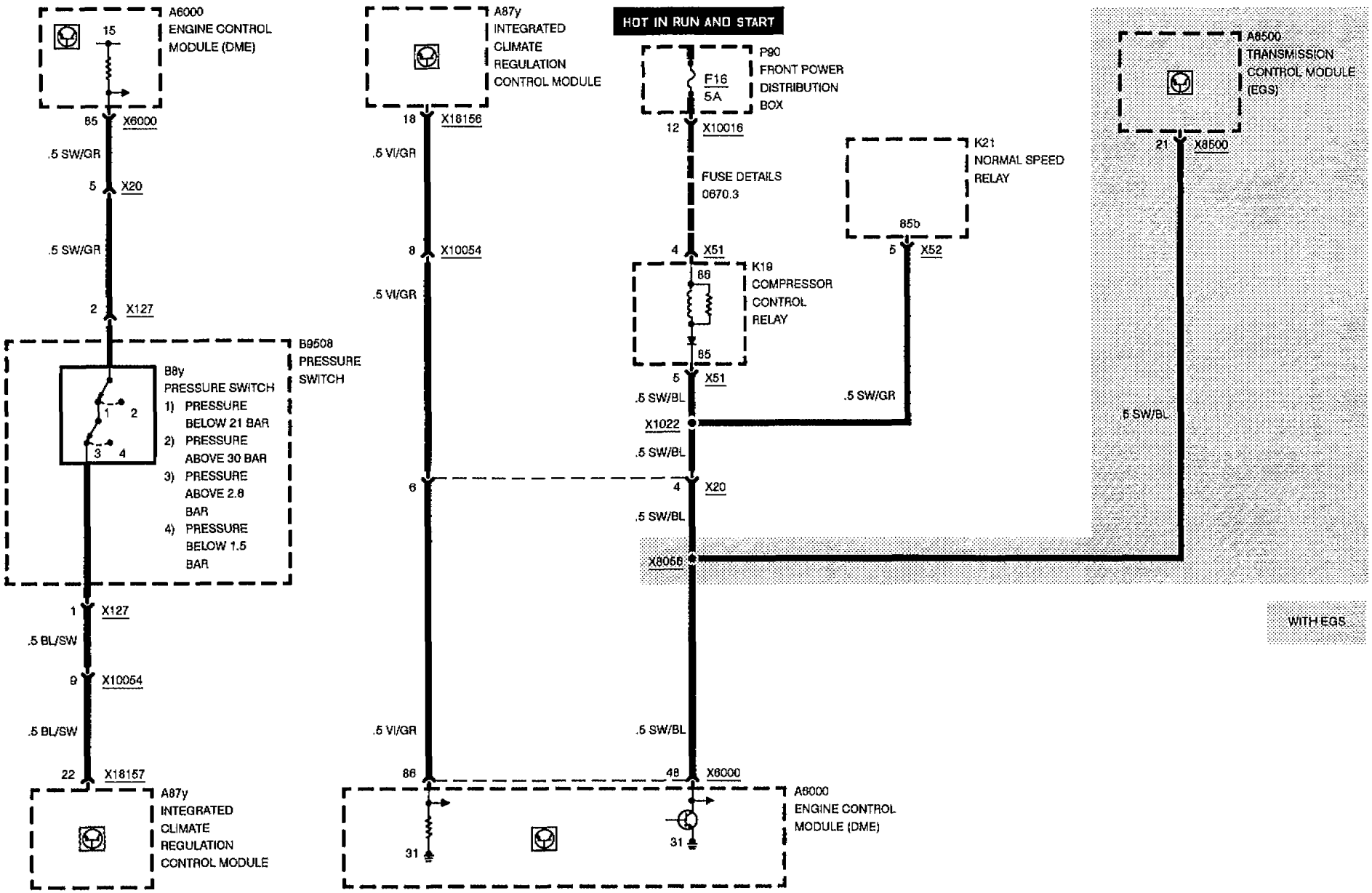


ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)

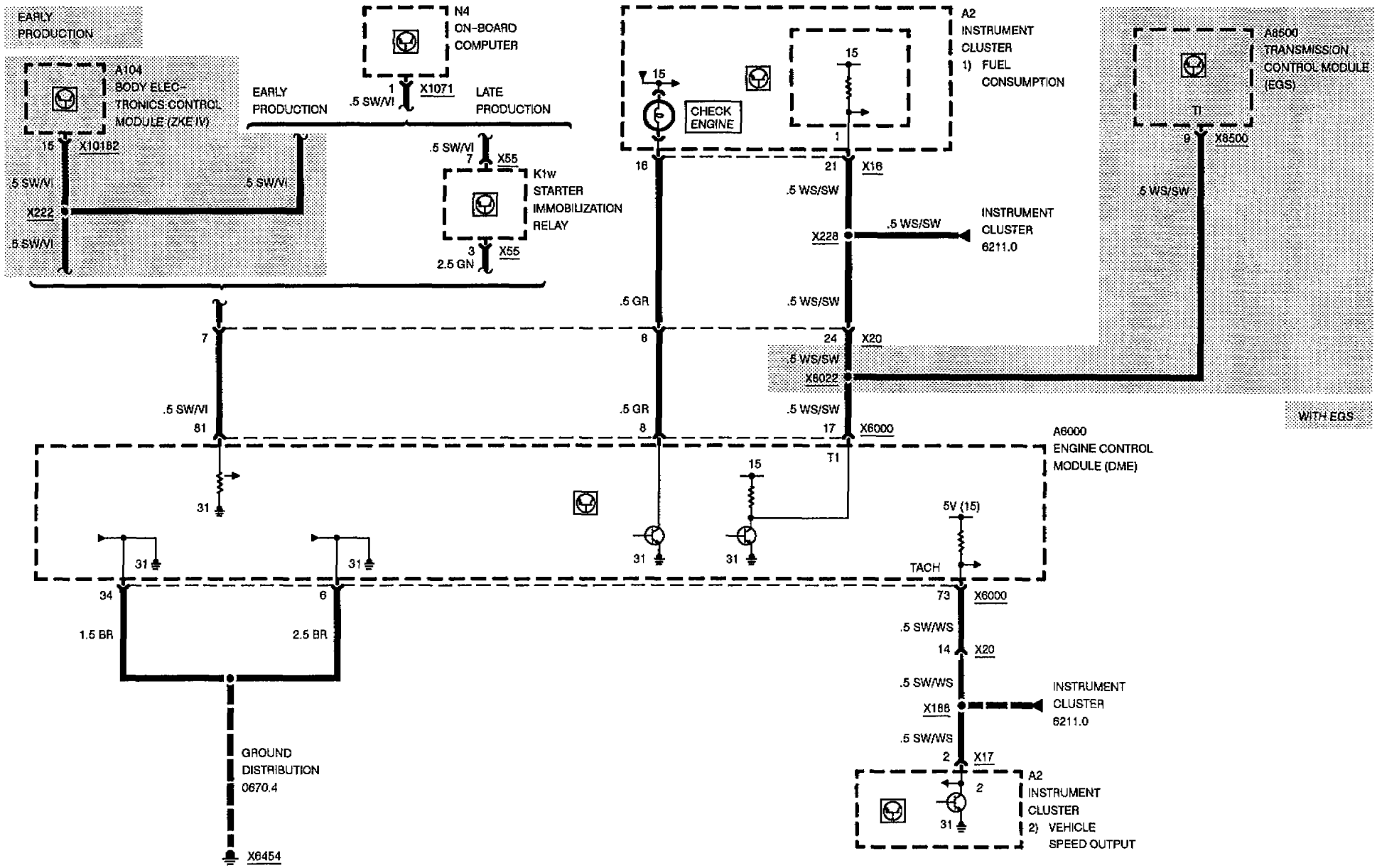
DATA LINK

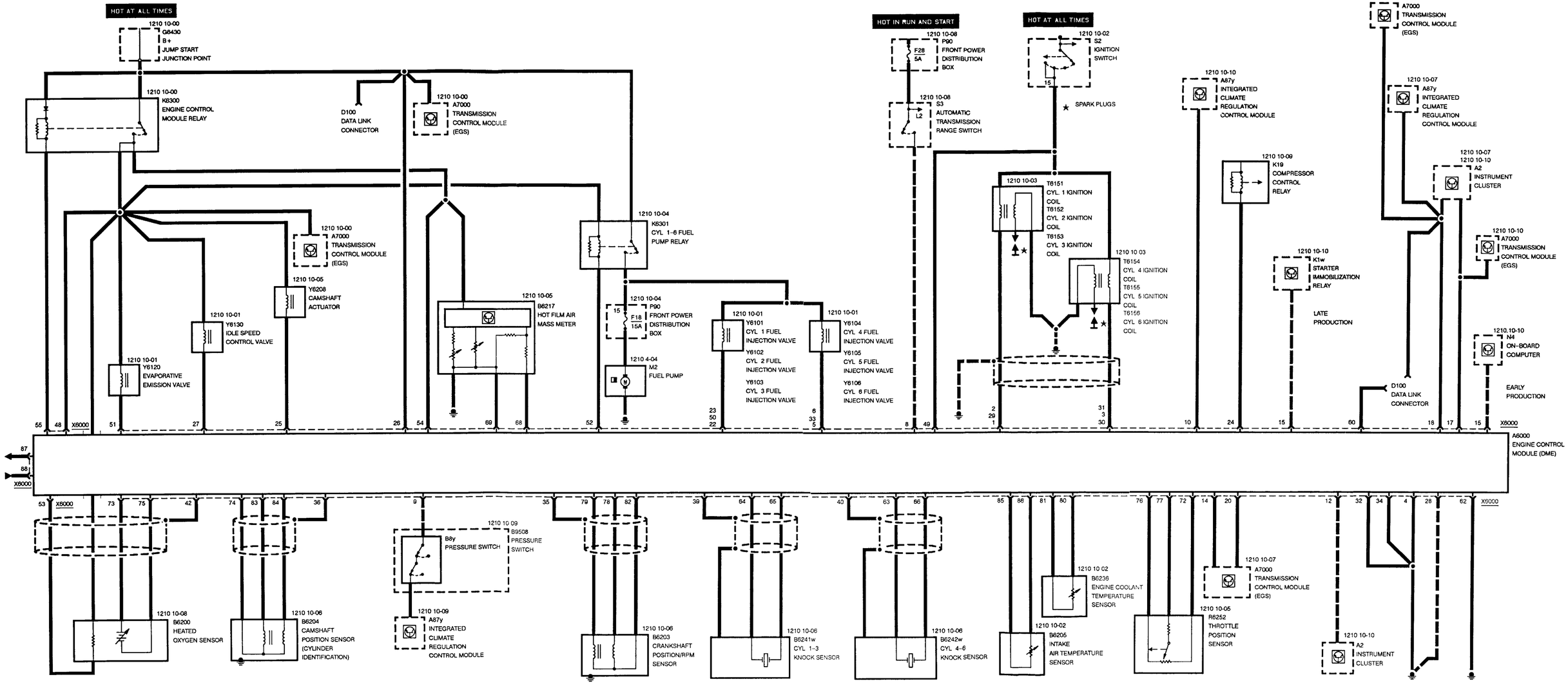


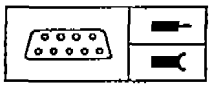
ENGINE CONTROL SYSTEM (DME M1.7, 4-CYLINDER M42)



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




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

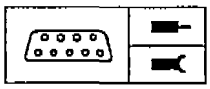


Pin Assignments

X6000

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

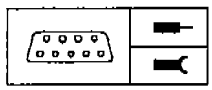
E = Input, A = Output, M = Ground



Pin Assignments

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

E = Input, A = Output, M = Ground



Pin Assignments

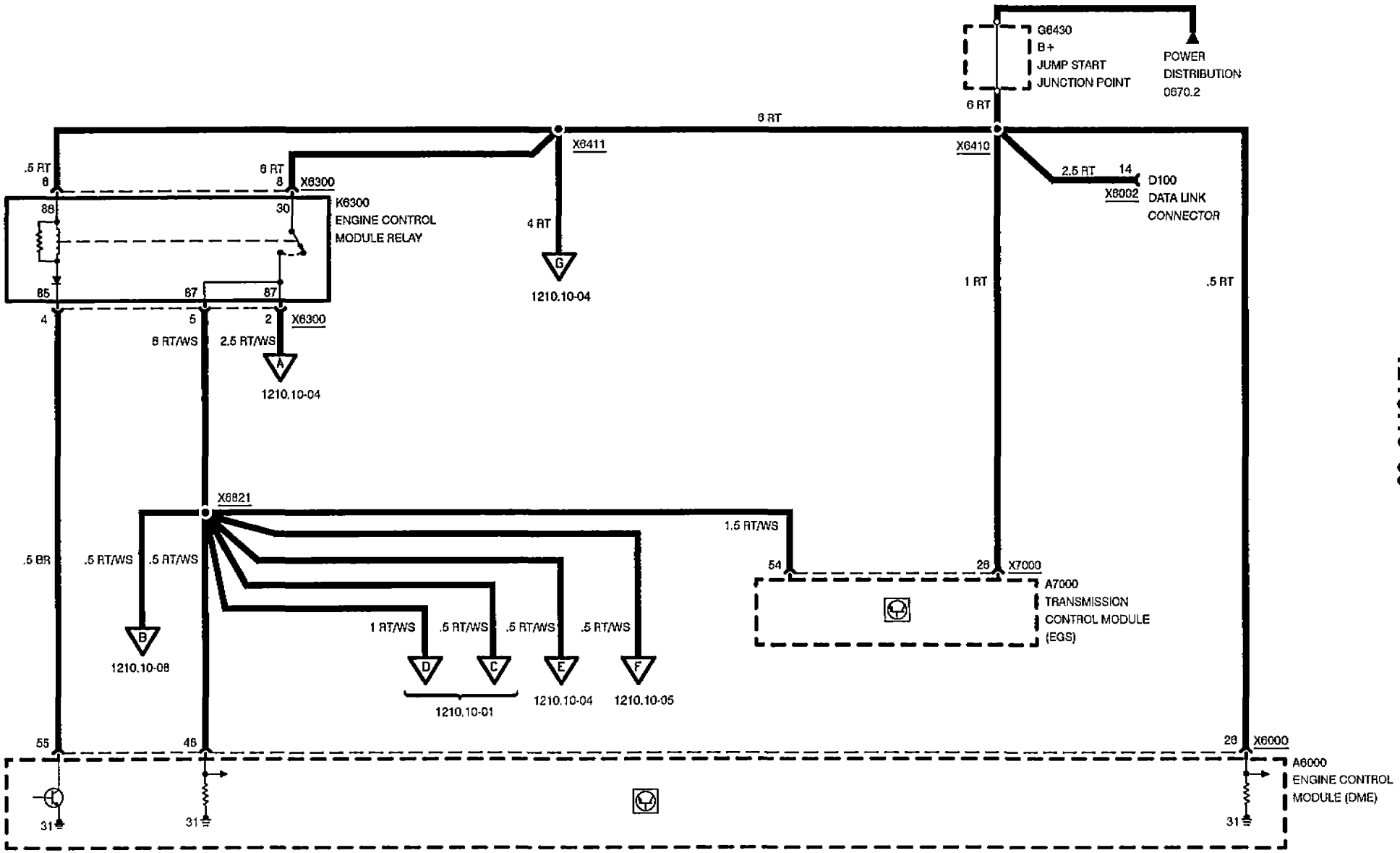
Pin	Type	Description/Function	Connection
61		Not used	
62	M	Ground	Ground
63	E	Knock sensor signal (-)	Knock sensor (Cyl. 4-6)
64	E	Knock sensor signal (-)	Knock sensor (Cyl. 1-3)
65	A	Knock sensor signal (+)	Knock sensor (Cyl. 1-3)
66	A	Knock sensor signal (+)	Knock sensor (Cyl. 4-6)
67		Not used	
68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

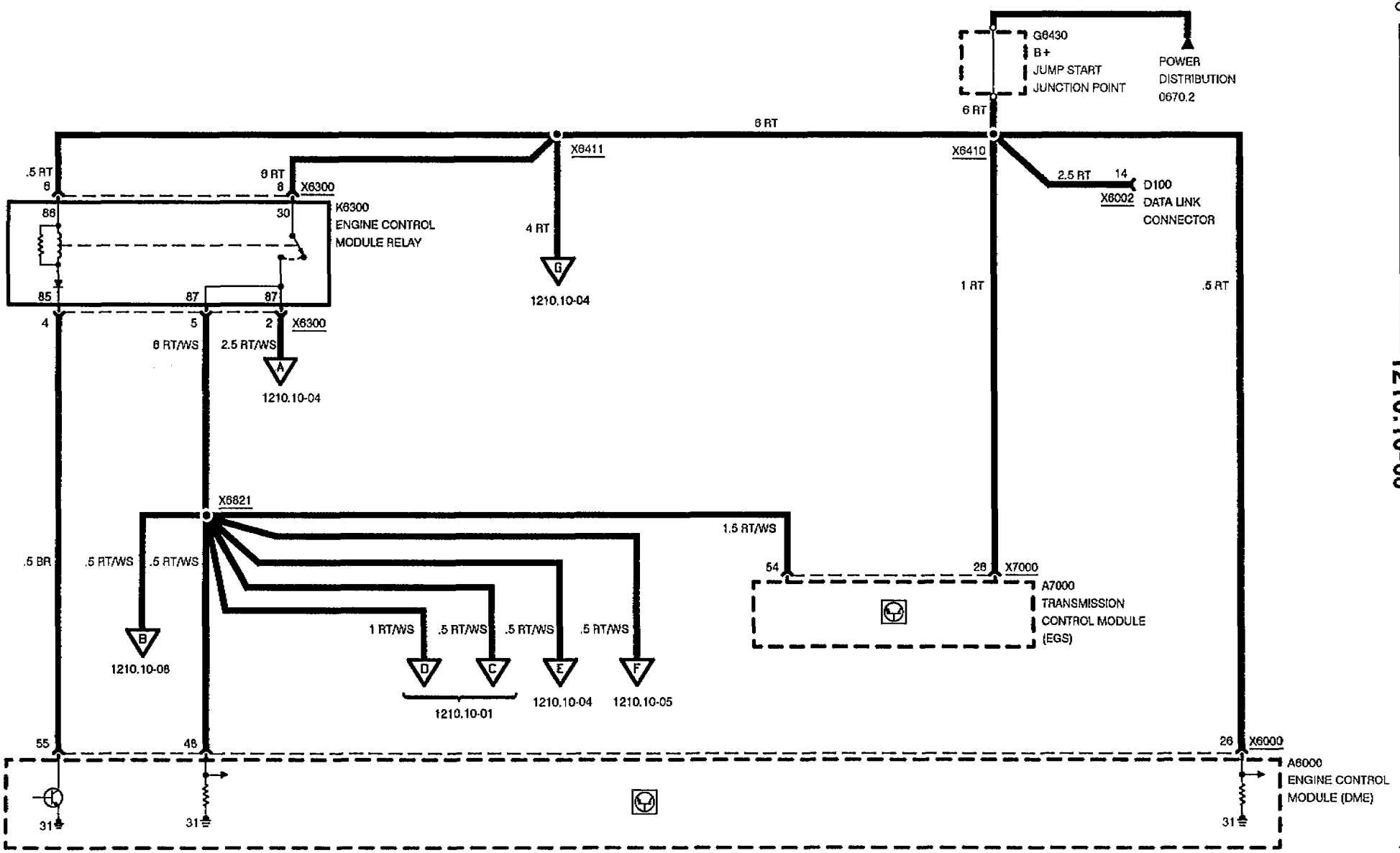
E = Input, A = Output, M = Ground

ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

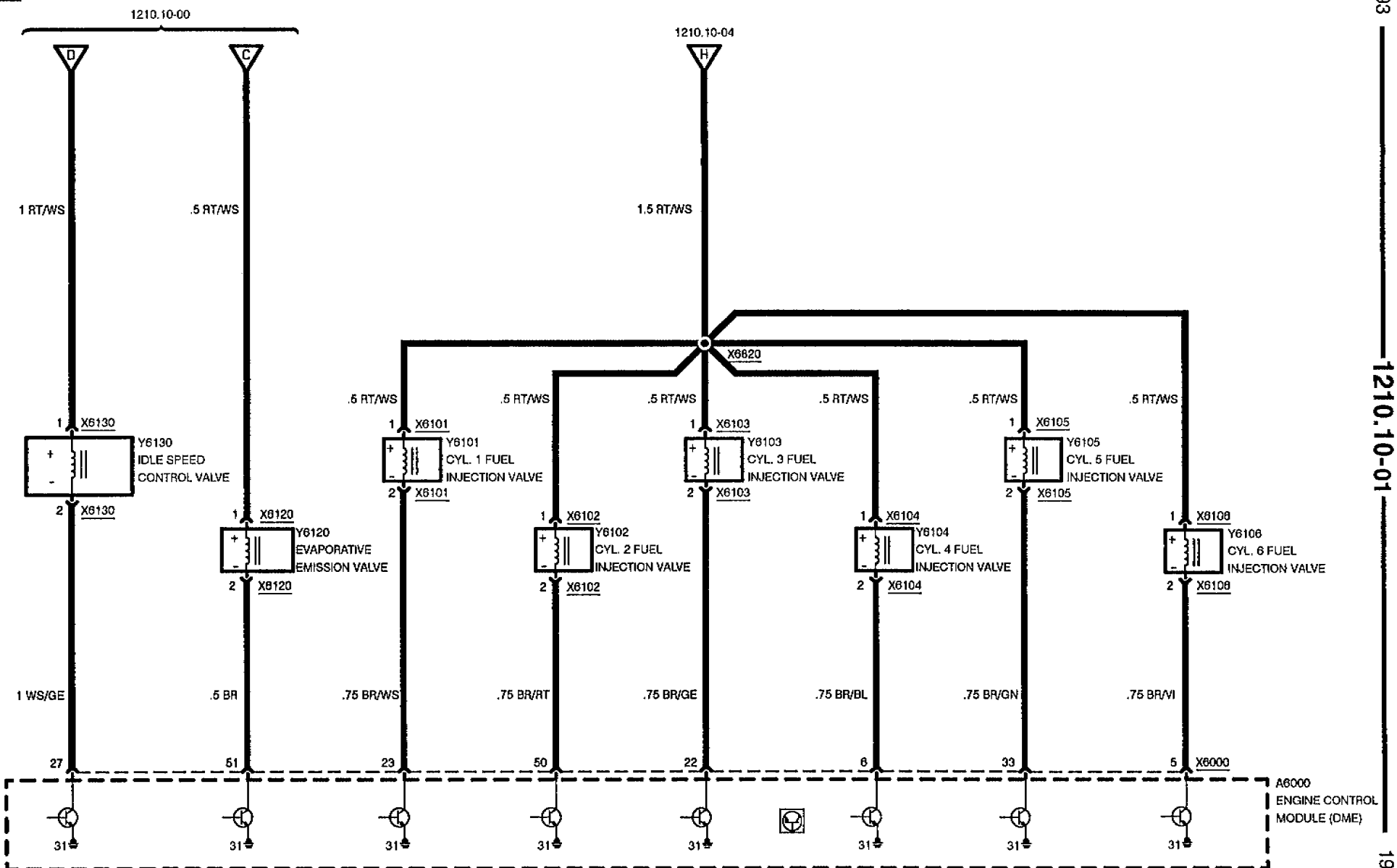
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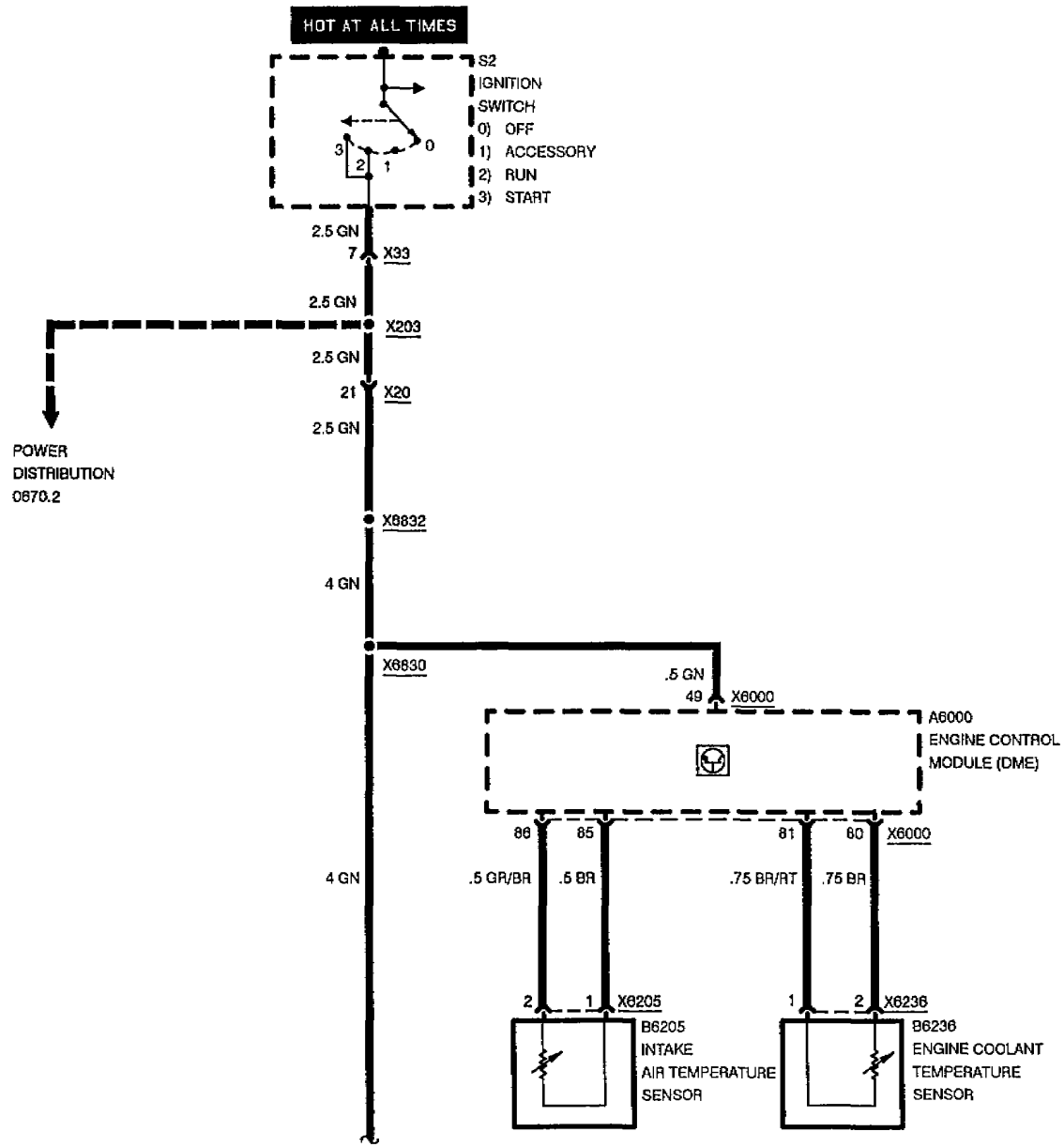
POWER

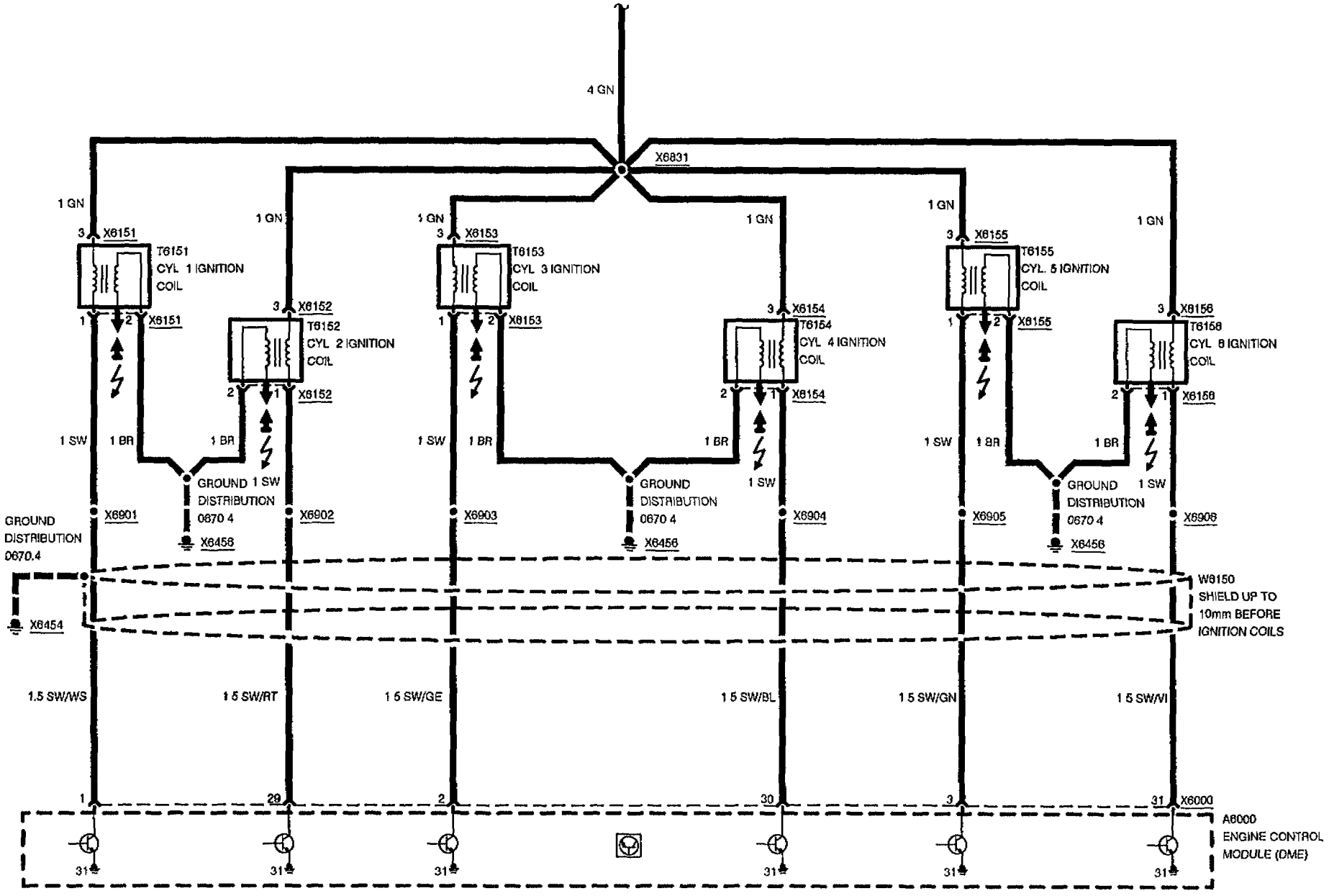


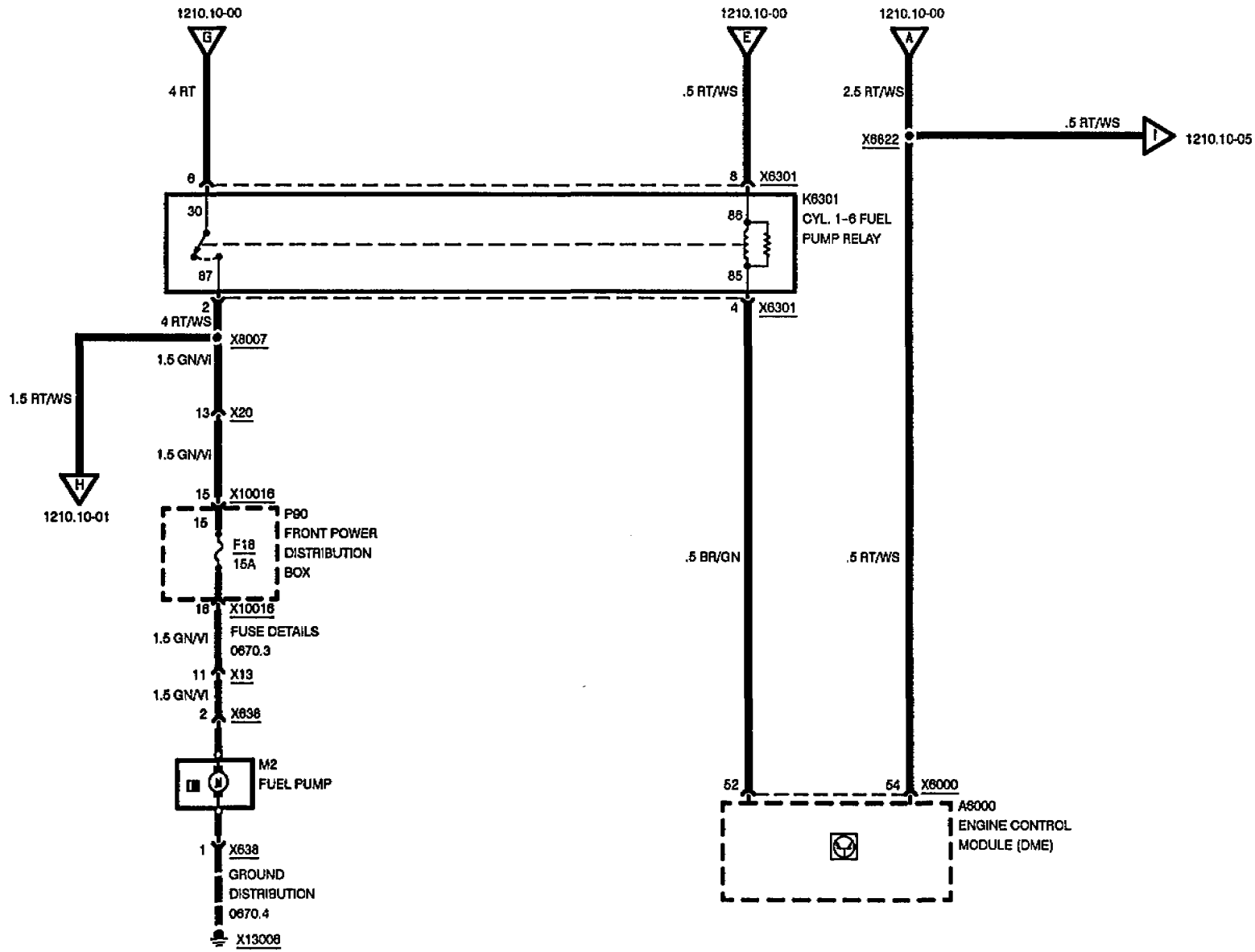

G6430
B+
JUMP START
JUNCTION POINT
POWER
DISTRIBUTION
0670.2
6 RT
6 RT
X6411
X6410
.5 RT
6
6 RT
8
X6300
K6300
ENGINE CONTROL
MODULE RELAY
86
30
85
87
87
4
5
2
X6300
6 RT/WS
2.5 RT/WS
4 RT
G
1210.10-04
1 RT
.5 RT
2.5 RT
14
D100
X6002
DATA LINK
CONNECTOR
A
1210.10-04
X6821
1.5 RT/WS
.5 BR
.5 RT/WS
.5 RT/WS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

ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)

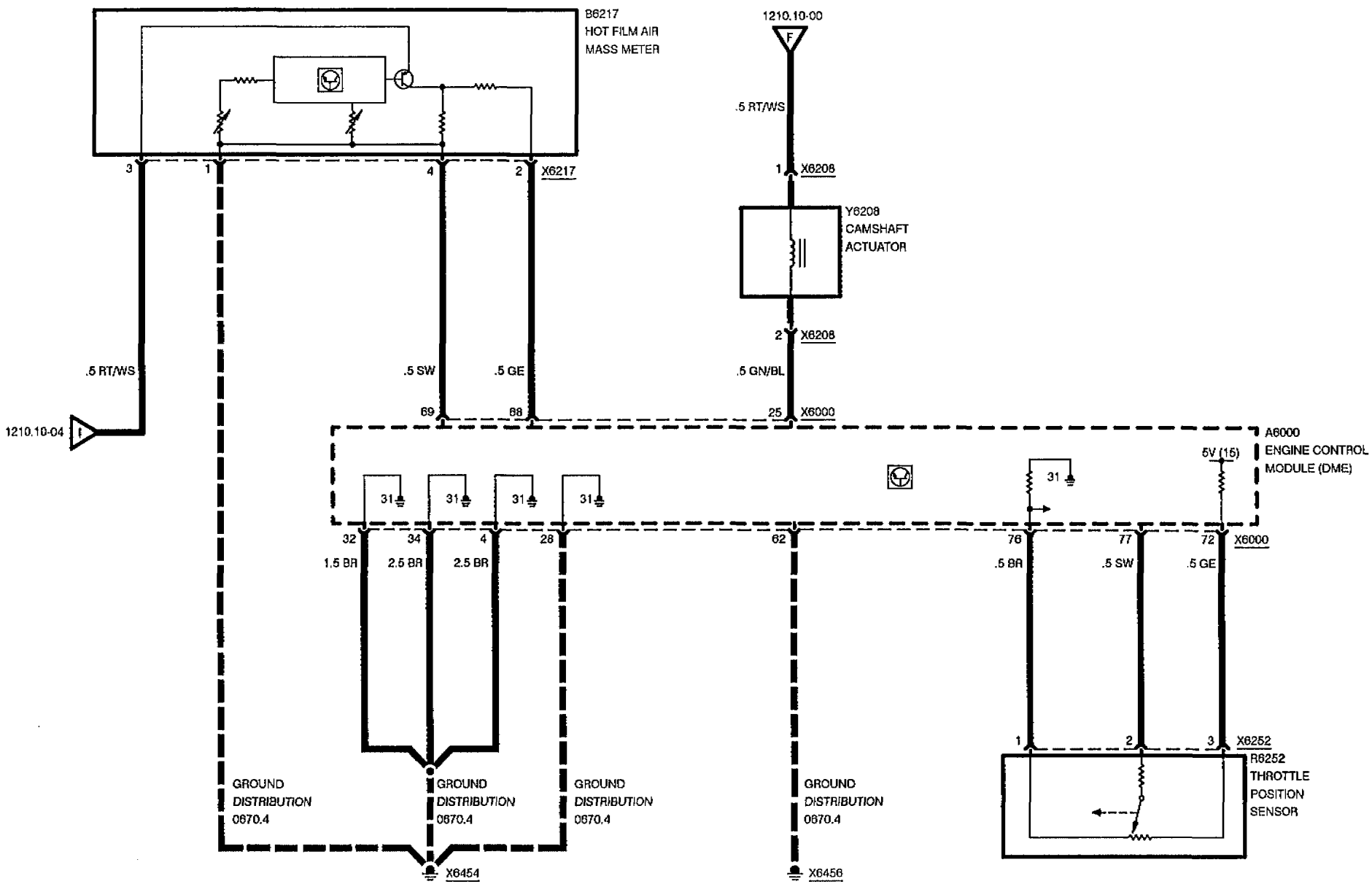


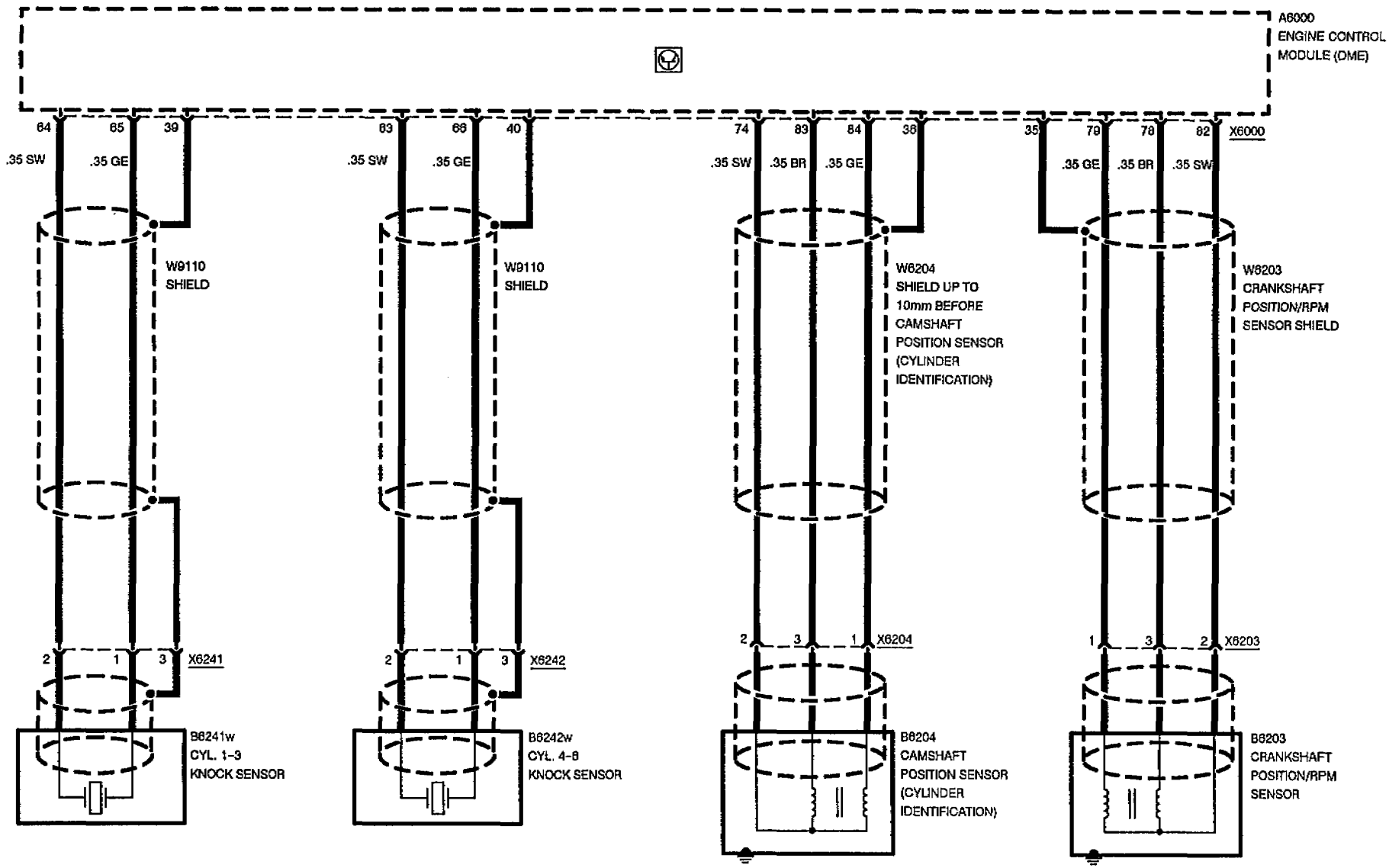

HOT AT ALL TIMES
S2
IGNITION SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
2.5 GN
7
X33
2.5 GN
X203
2.5 GN
21
X20
2.5 GN
POWER DISTRIBUTION 0670.2
X6832
4 GN
X6830
.5 GN
49
X6000
A6000
ENGINE CONTROL MODULE (DME)
86
85
81
80
X6000
4 GN
.5 GR/BR
.5 BR
.75 BR/RT
.75 BR
2
1
X6205
1
2
X6236
B6205
INTAKE AIR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


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

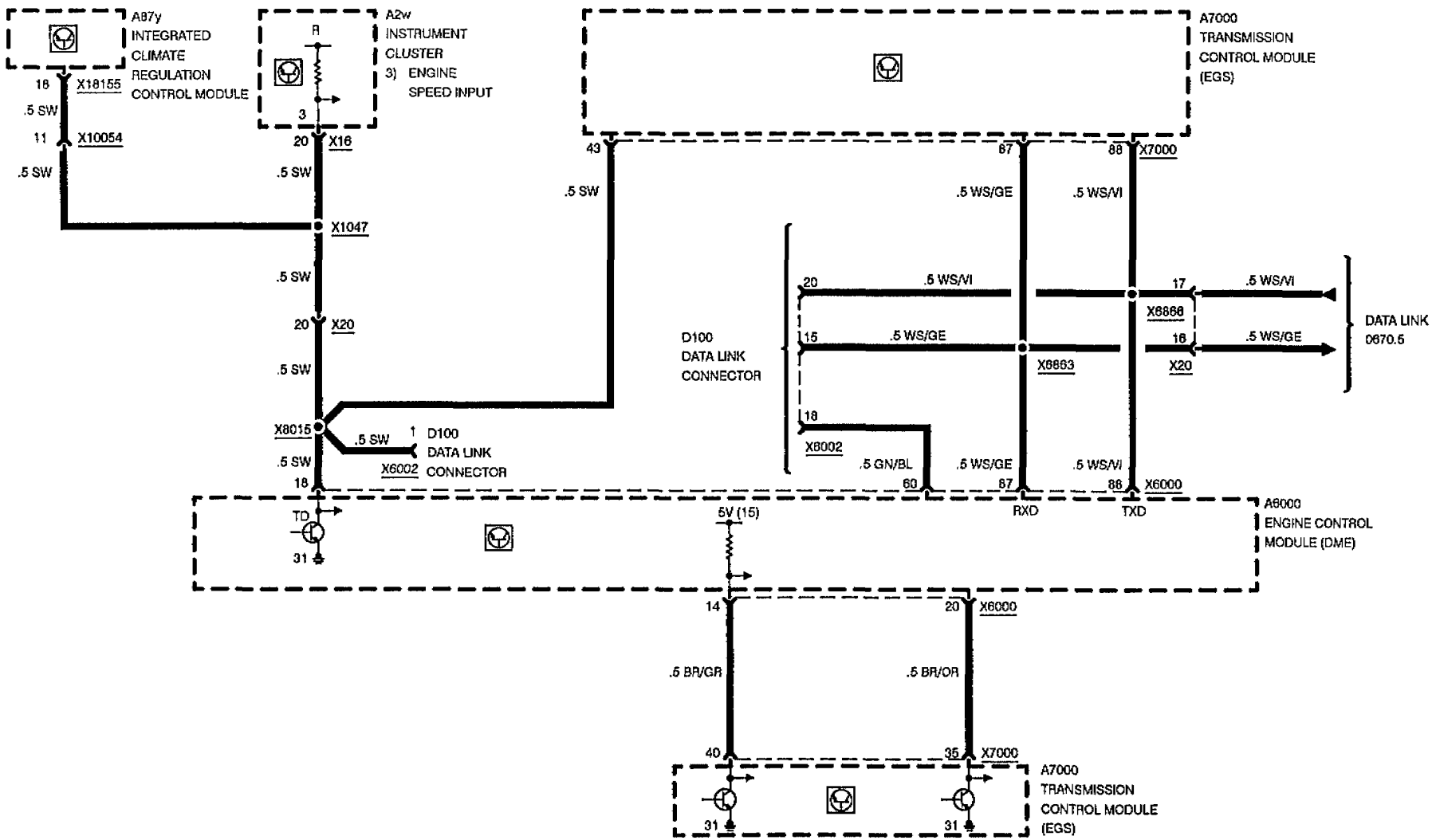

1210.10-00
G
4 RT
6
30
87
2
4 RT/WS
X8007
1.5 GN/VI
13
X20
1.5 GN/VI
15
X10016
15
F18
15A
P90
FRONT POWER
DISTRIBUTION
BOX
16
X10016
1.5 GN/VI
FUSE DETAILS
0670.3
11
X13
1.5 GN/VI
2
X636
M2
FUEL PUMP
1
X638
GROUND
DISTRIBUTION
0670.4
X13008
1.5 RT/WS
H
1210.10-01
1210.10-00
E
.5 RT/WS
8
X6301
K6301
CYL.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

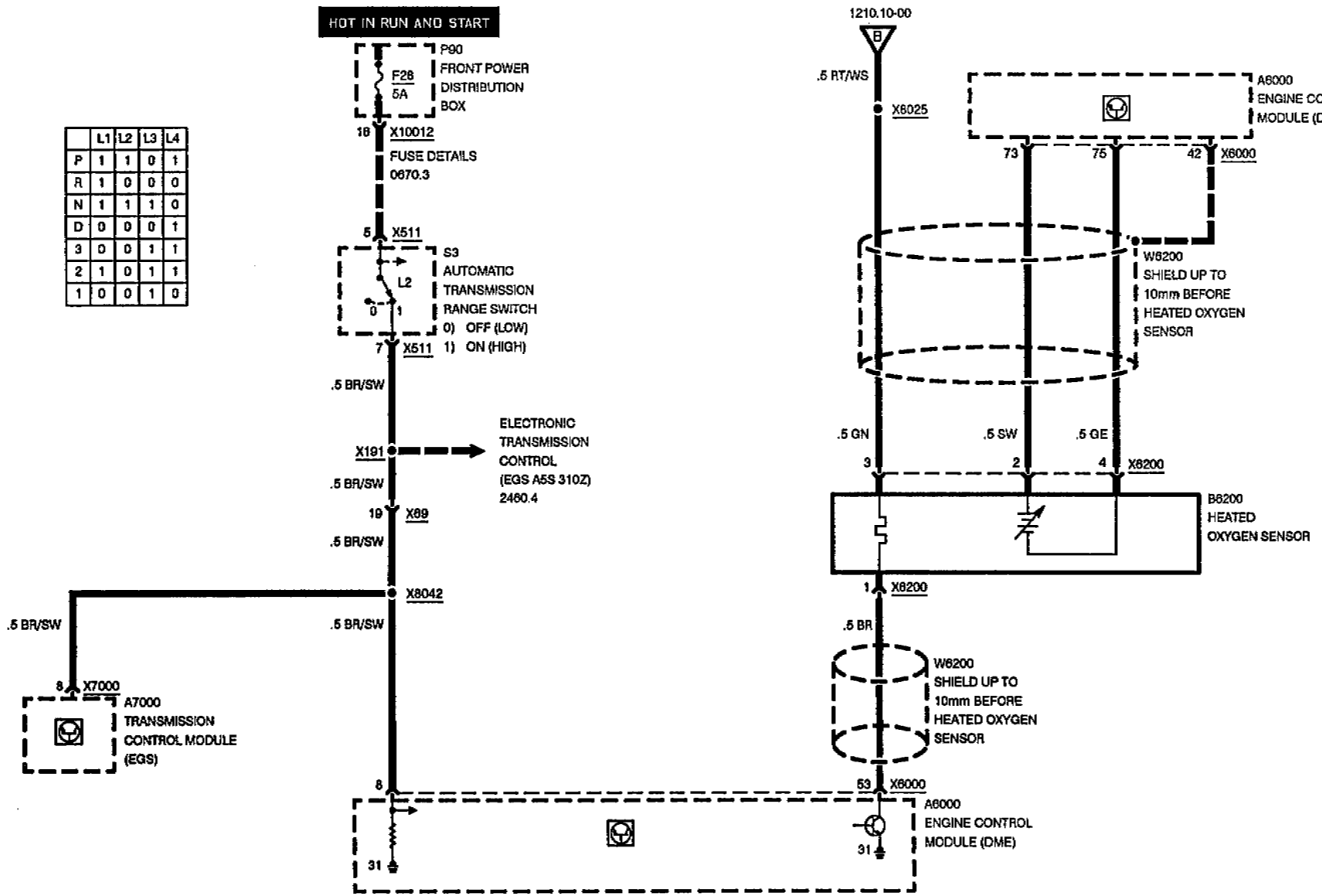
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)




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

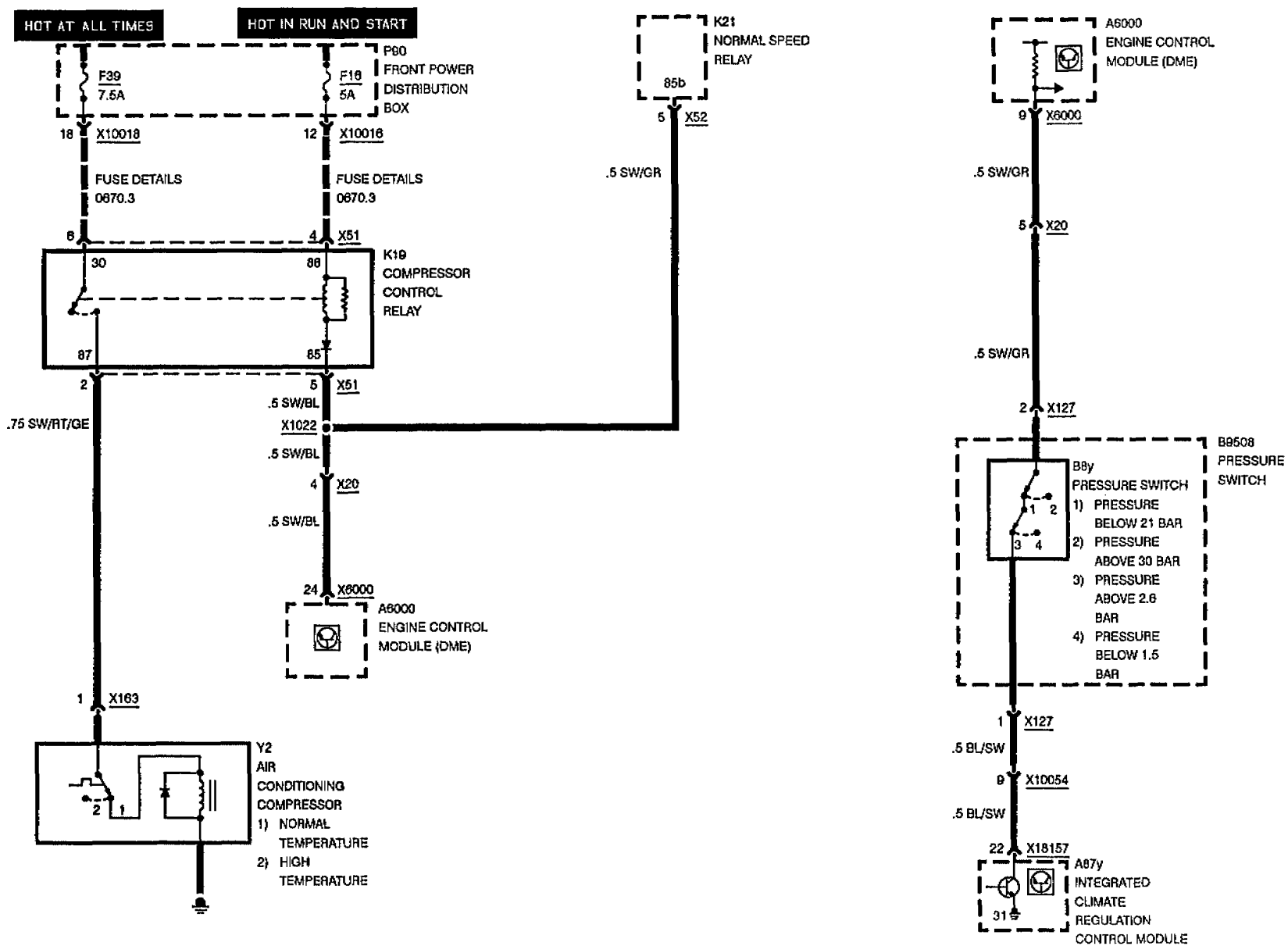
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)



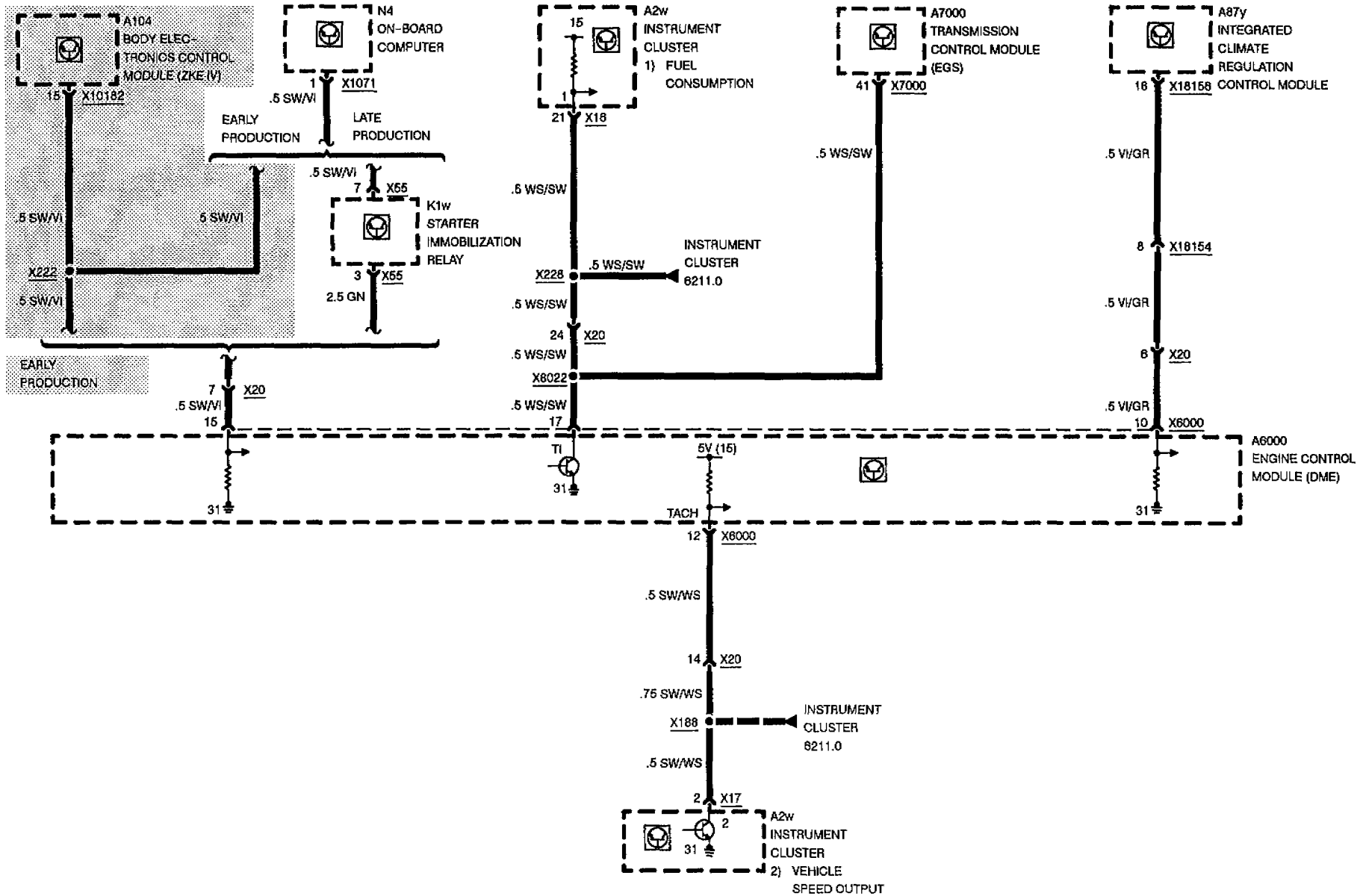


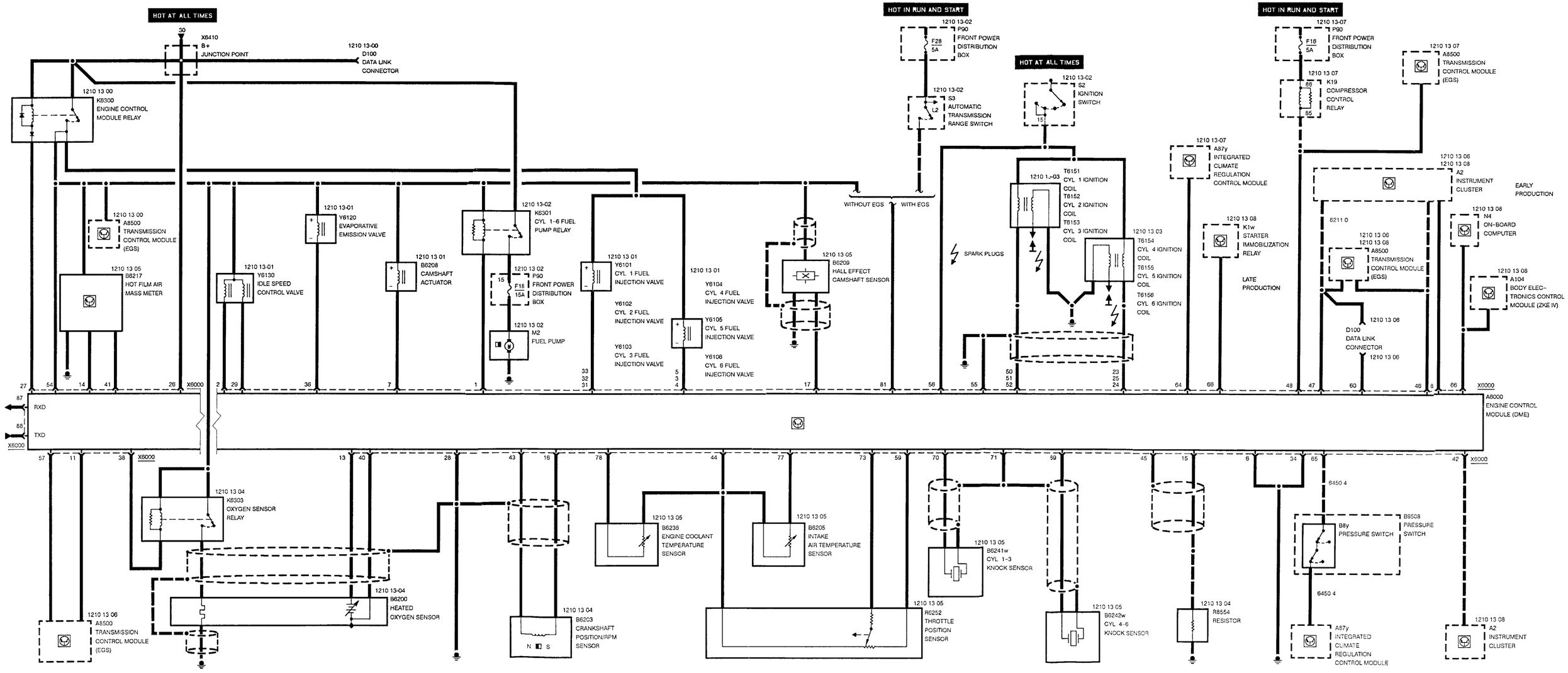
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

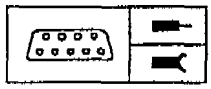
ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)



ENGINE CONTROL SYSTEM MS40 (6-CYLINDER M50)




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

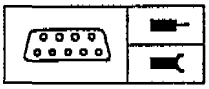


Pin Assignments

X6000

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

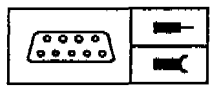
E = Input, A = Output, M = Ground



Pin Assignments

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

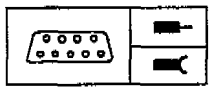
E = Input, A = Output, M = Ground



Pin Assignments

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

E = Input, A = Output, M = Ground



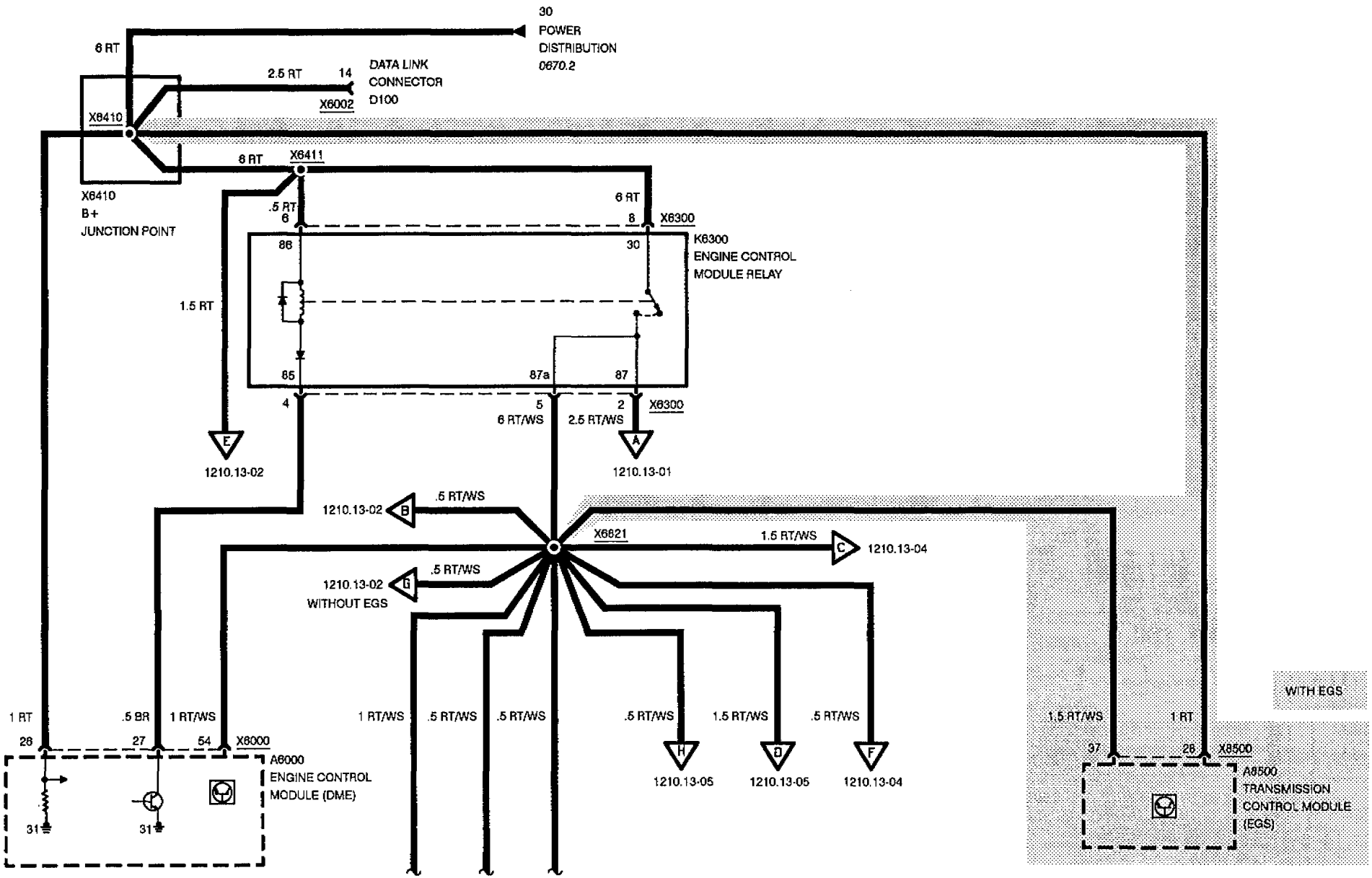
Pin Assignments

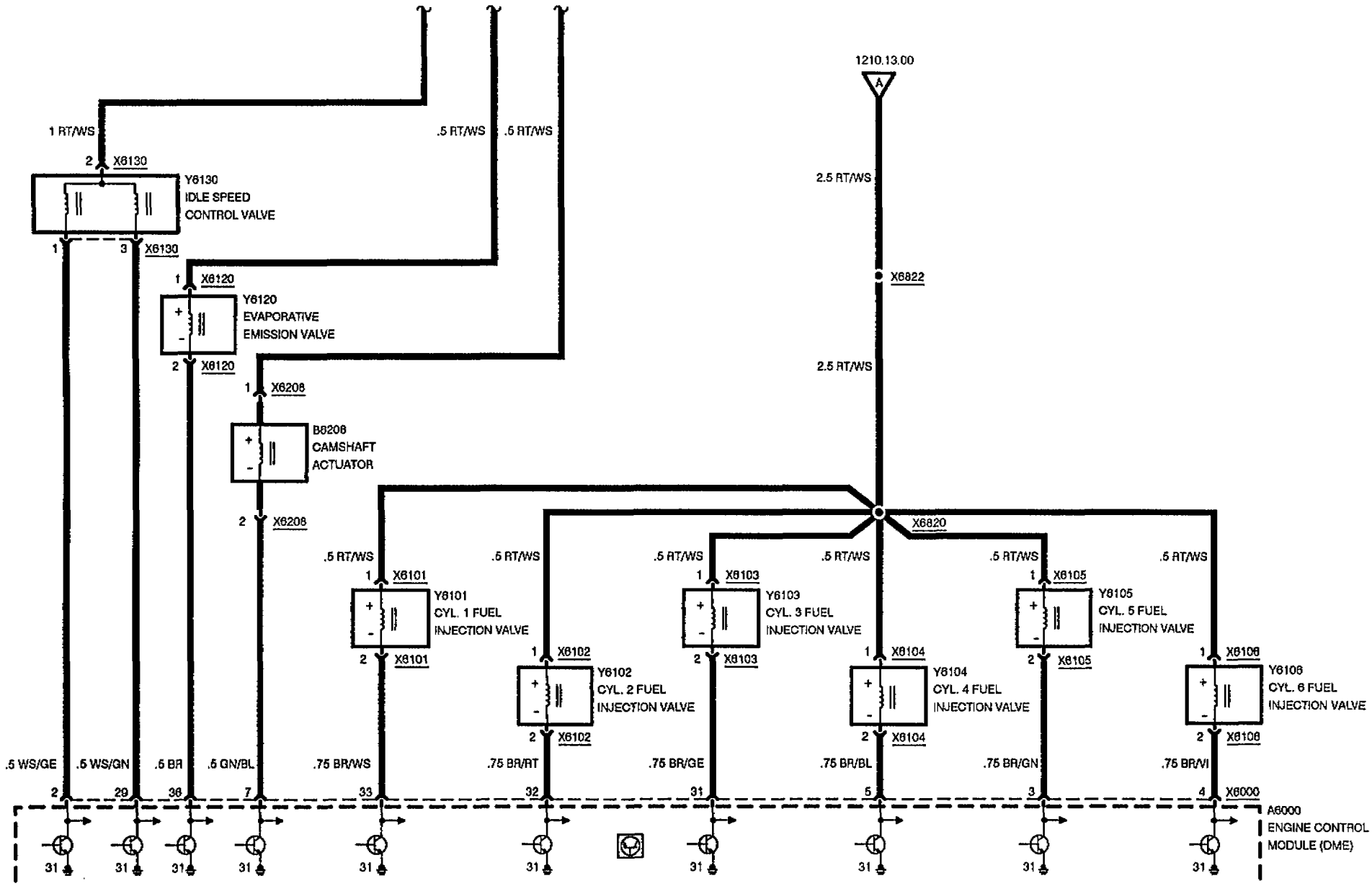
Pin	Type	Description/Function	Connection
87	E	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

E = Input, A = Output, M = Ground

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

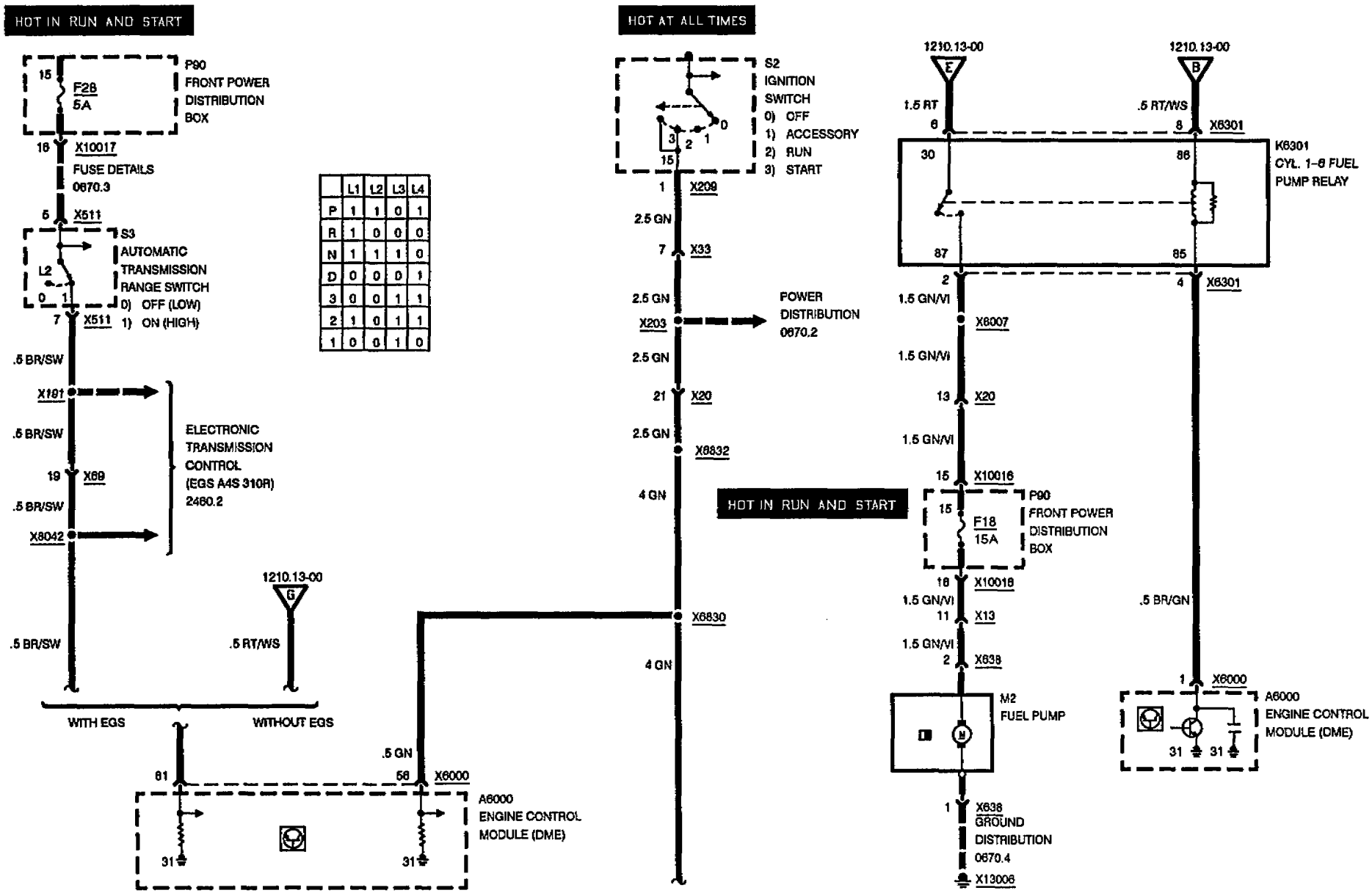
POWER, FUEL INJECTION VALVES

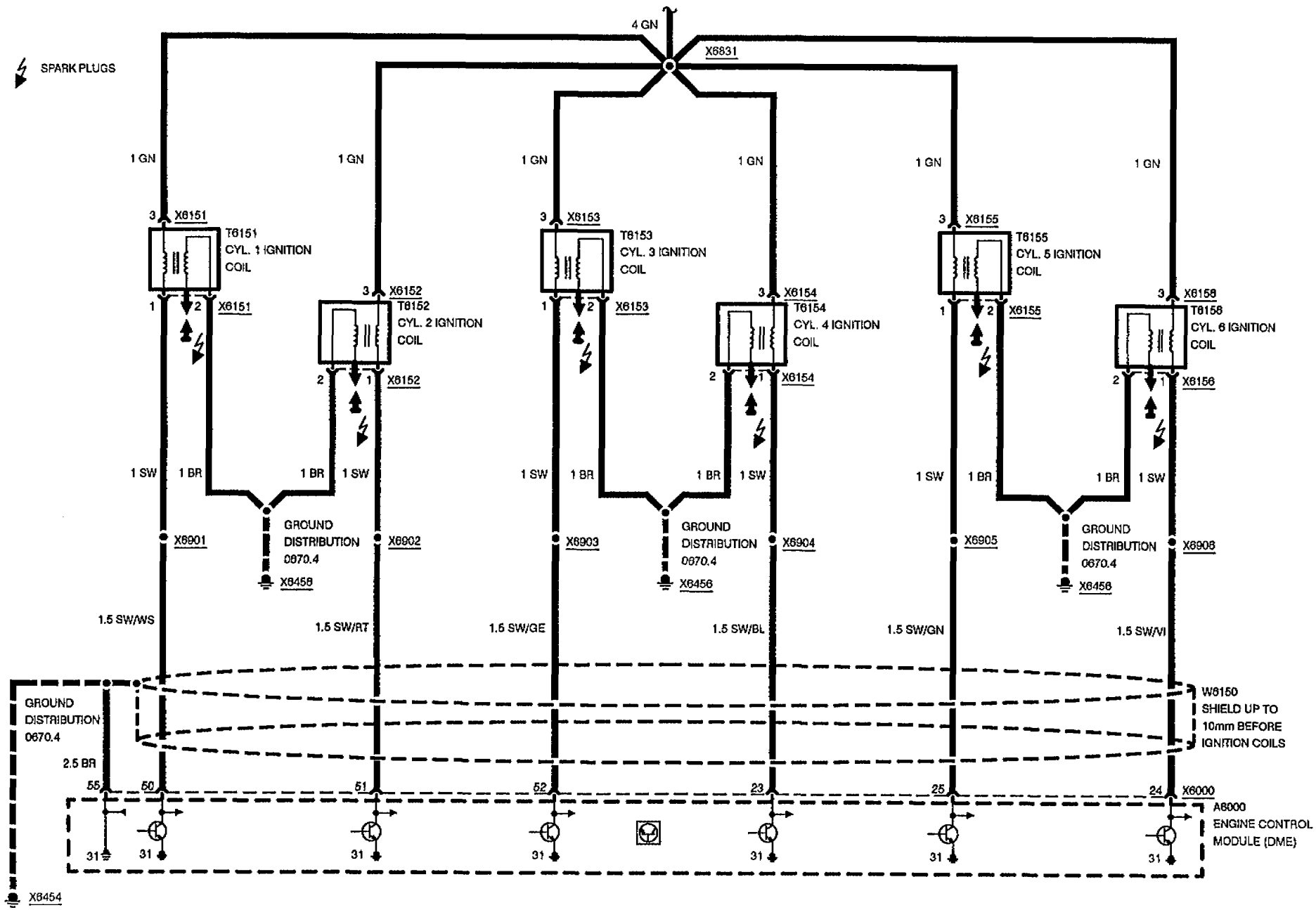



1210.13.00
A
1 RT/WS
.5 RT/WS
.5 RT/WS
2.5 RT/WS
2.5 RT/WS
X6822
X6820
2 X6130
Y6130
IDLE SPEED
CONTROL VALVE
1
3
X6130
1 X6120
Y6120
EVAPORATIVE
EMISSION VALVE
2 X6120
1 X6206
B6206
CAMSHAFT
ACTUATOR
2 X6206
.5 RT/WS
1 X6101
Y6101
CYL. 1 FUEL
INJECTION VALVE
2 X6101
.5 RT/WS
1 X6102
Y6102
CYL. 2 FUEL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

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

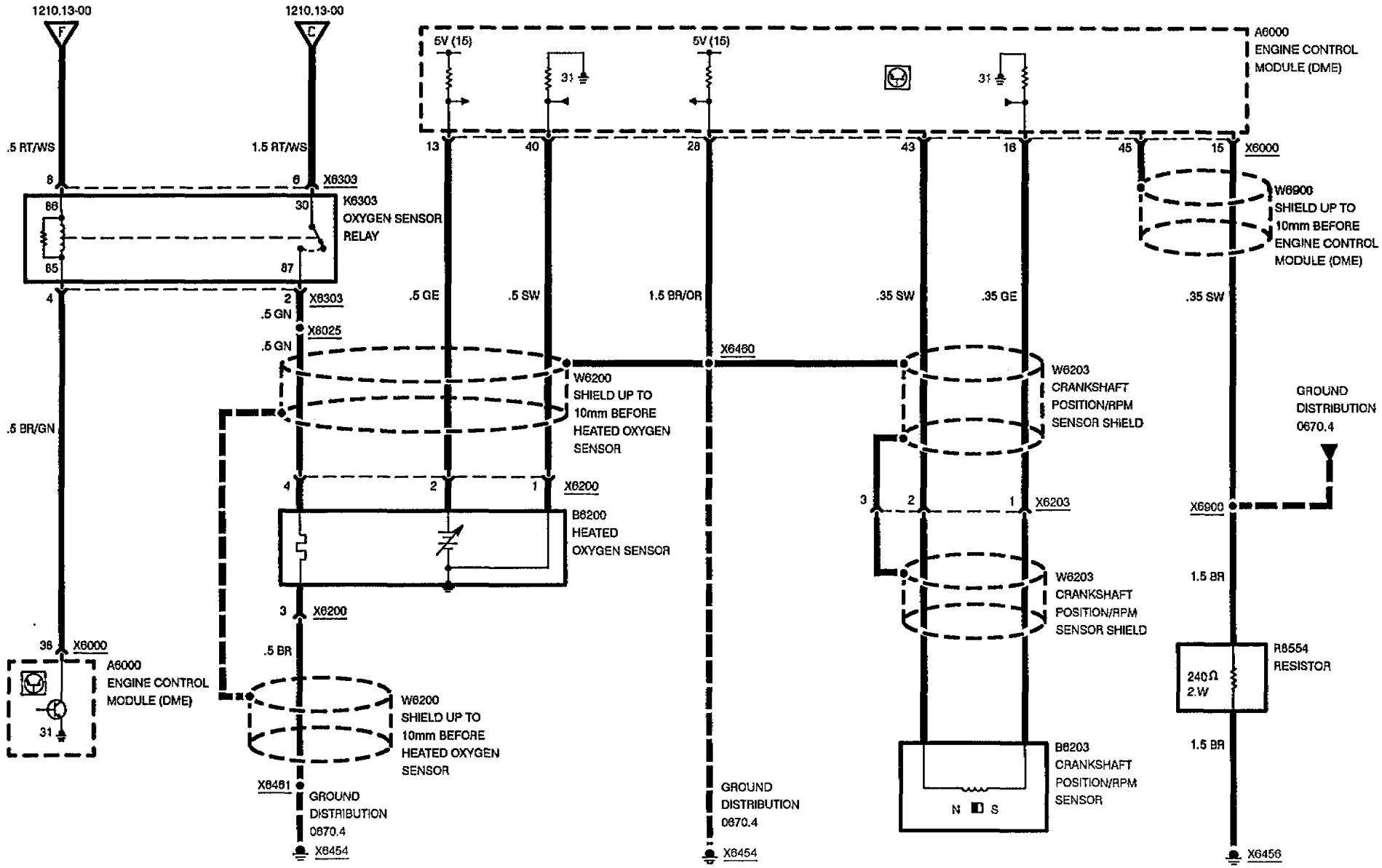
FUEL PUMP, IGNITION COILS



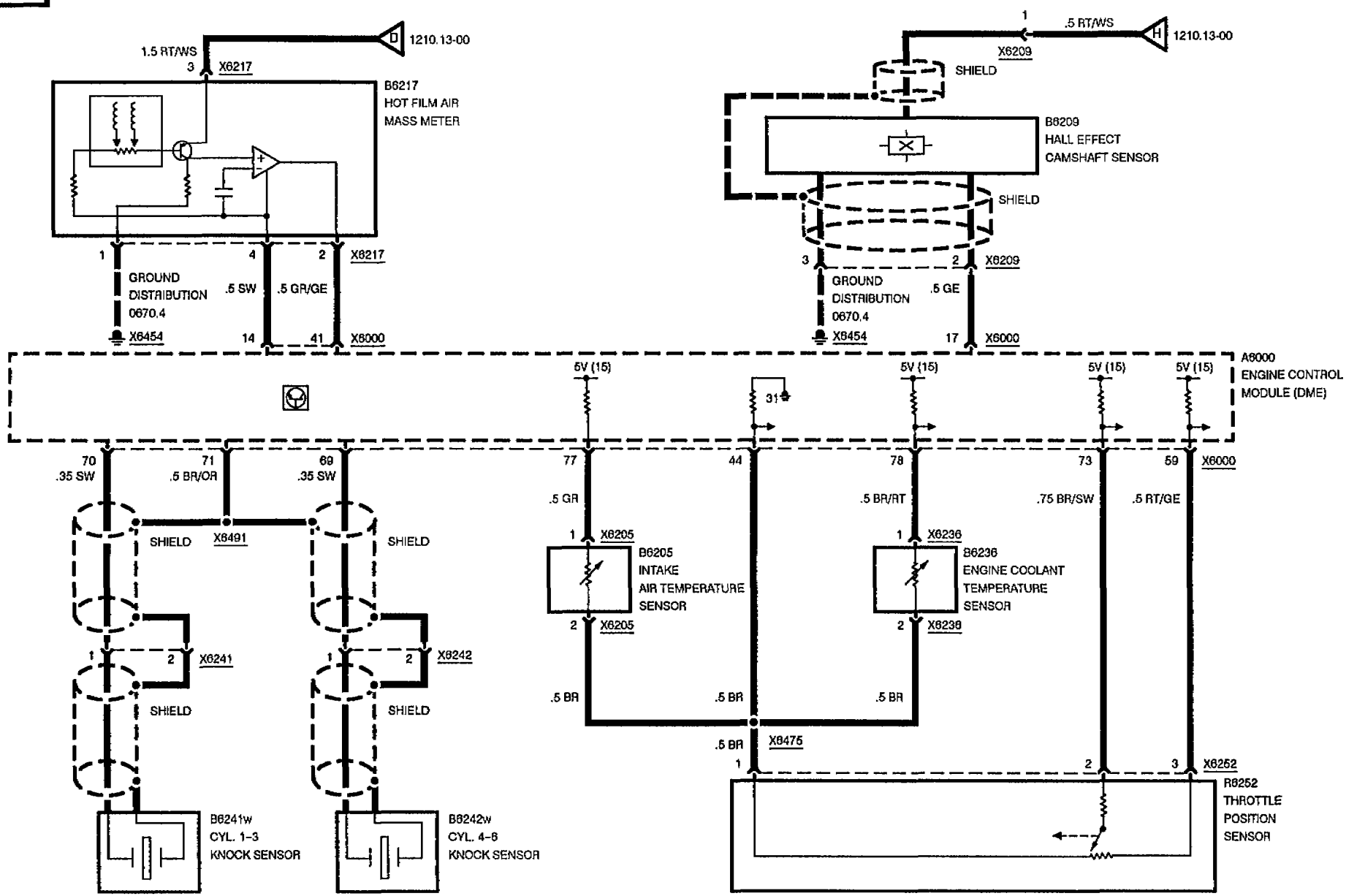

SPARK PLUGS
4 GN
X6831
1 GN
1 GN
1 GN
1 GN
1 GN
1 GN
3 X6151
T6151
CYL. 1 IGNITION COIL
1 2 X6151
3 X6152
T6152
CYL. 2 IGNITION COIL
2 1 X6152
3 X6153
T6153
CYL. 3 IGNITION COIL
1 2 X6153
3 X6154
T6154
CYL. 4 IGNITION COIL
2 1 X6154
3 X6155
T6155
CYL. 5 IGNITION COIL
1 2 X6155
3 X6156
T6156
CYL. 6 IGNITION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

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

HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS

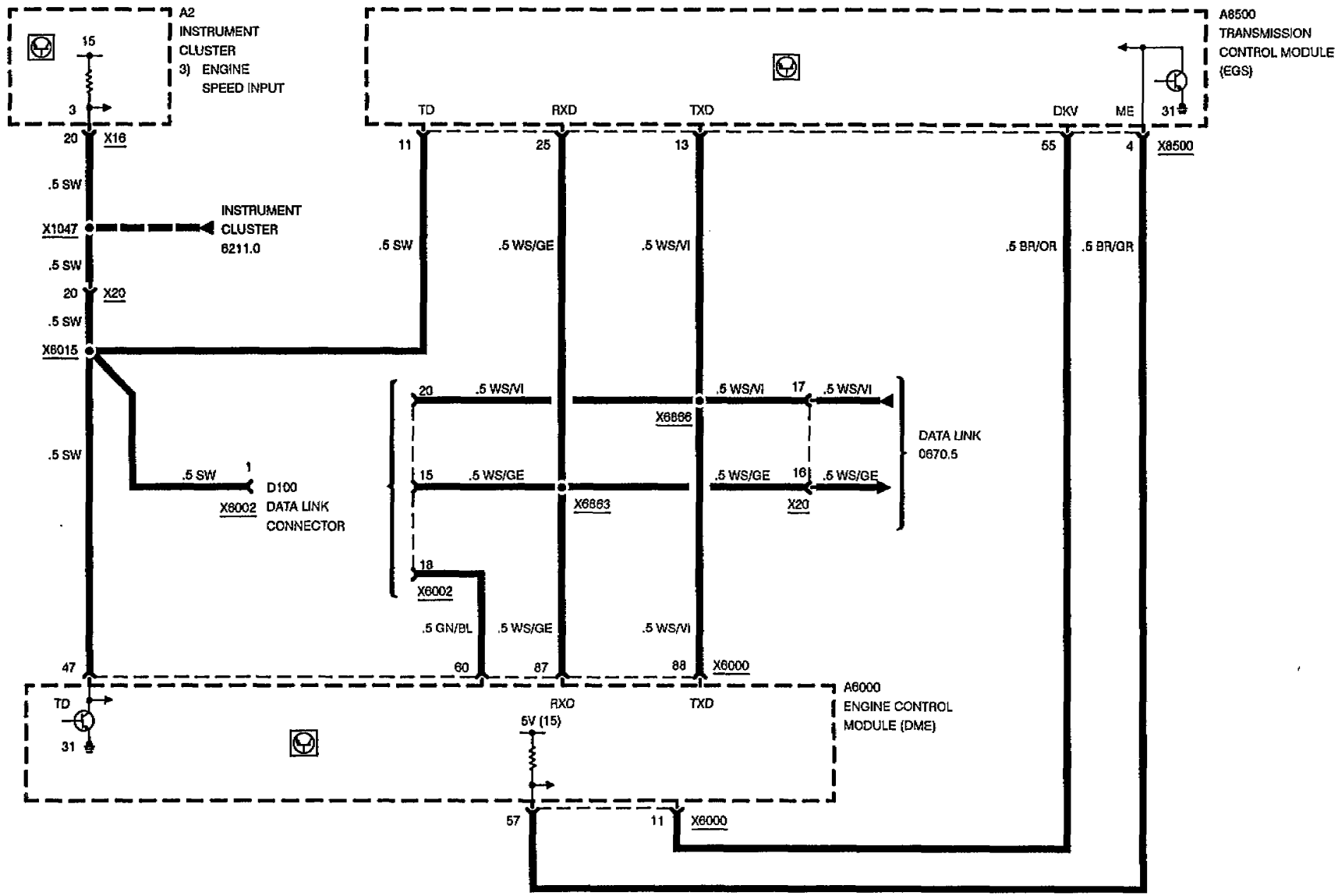


BMW 3 — ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

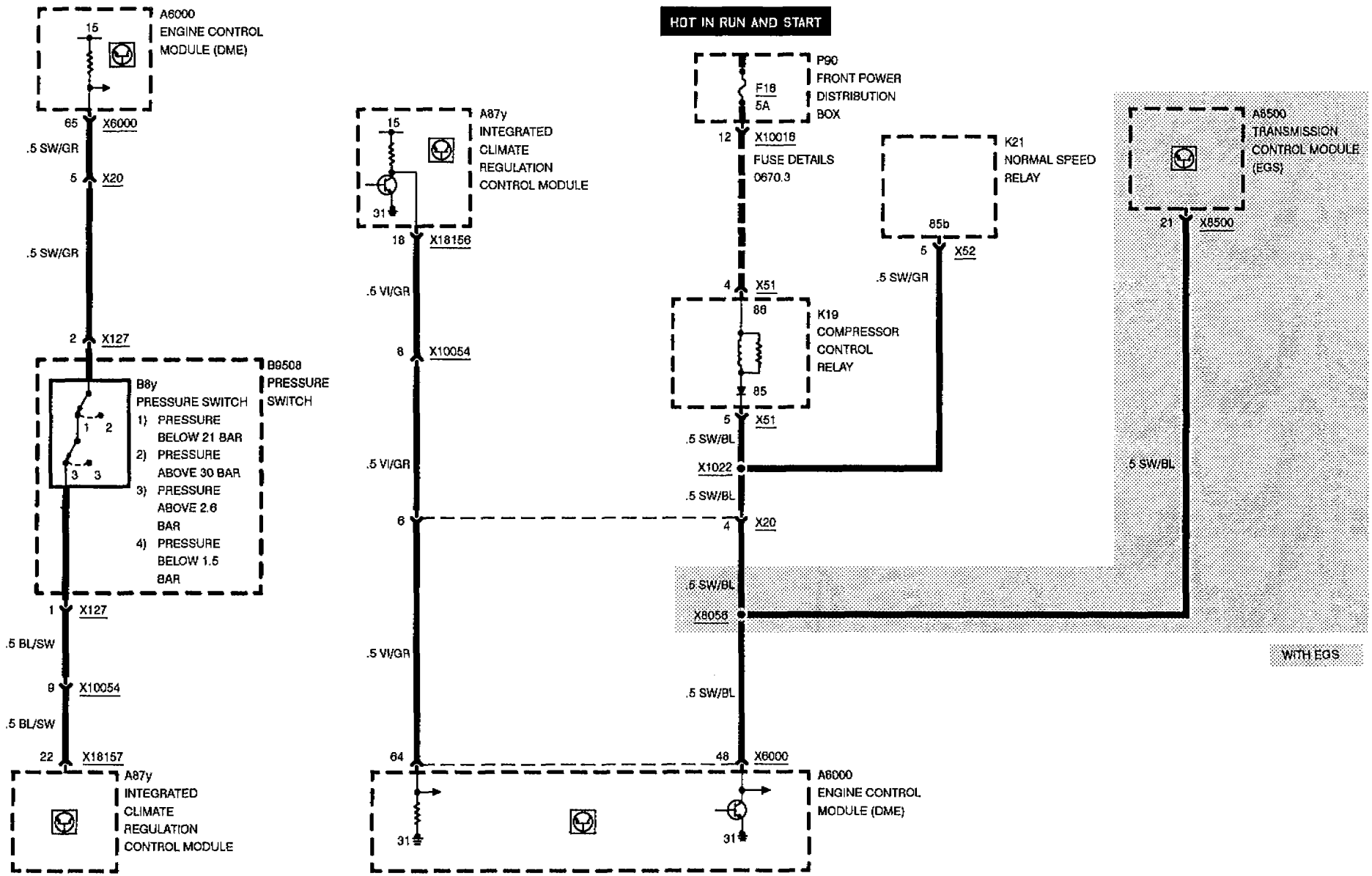


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

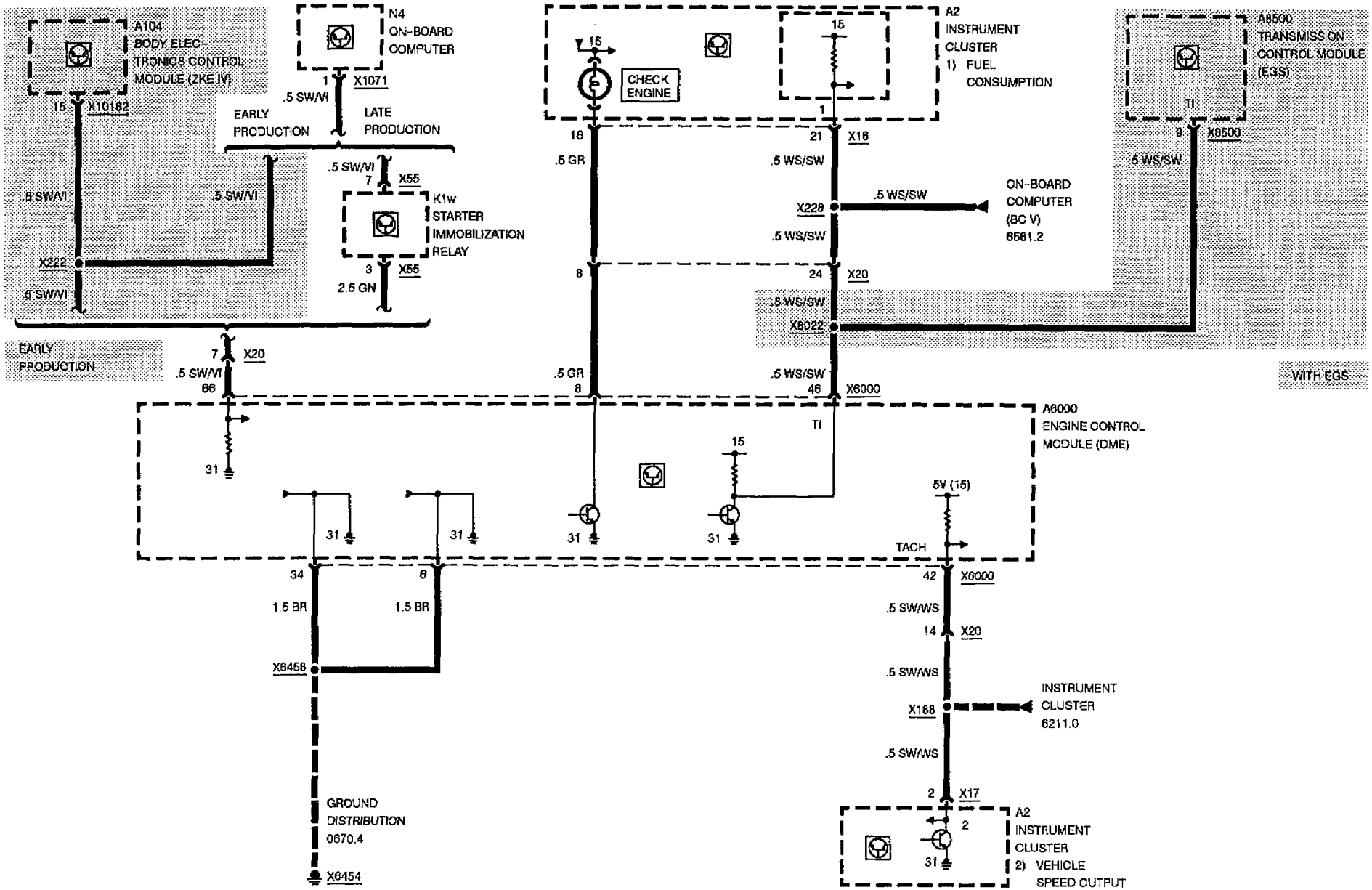
DATA LINK



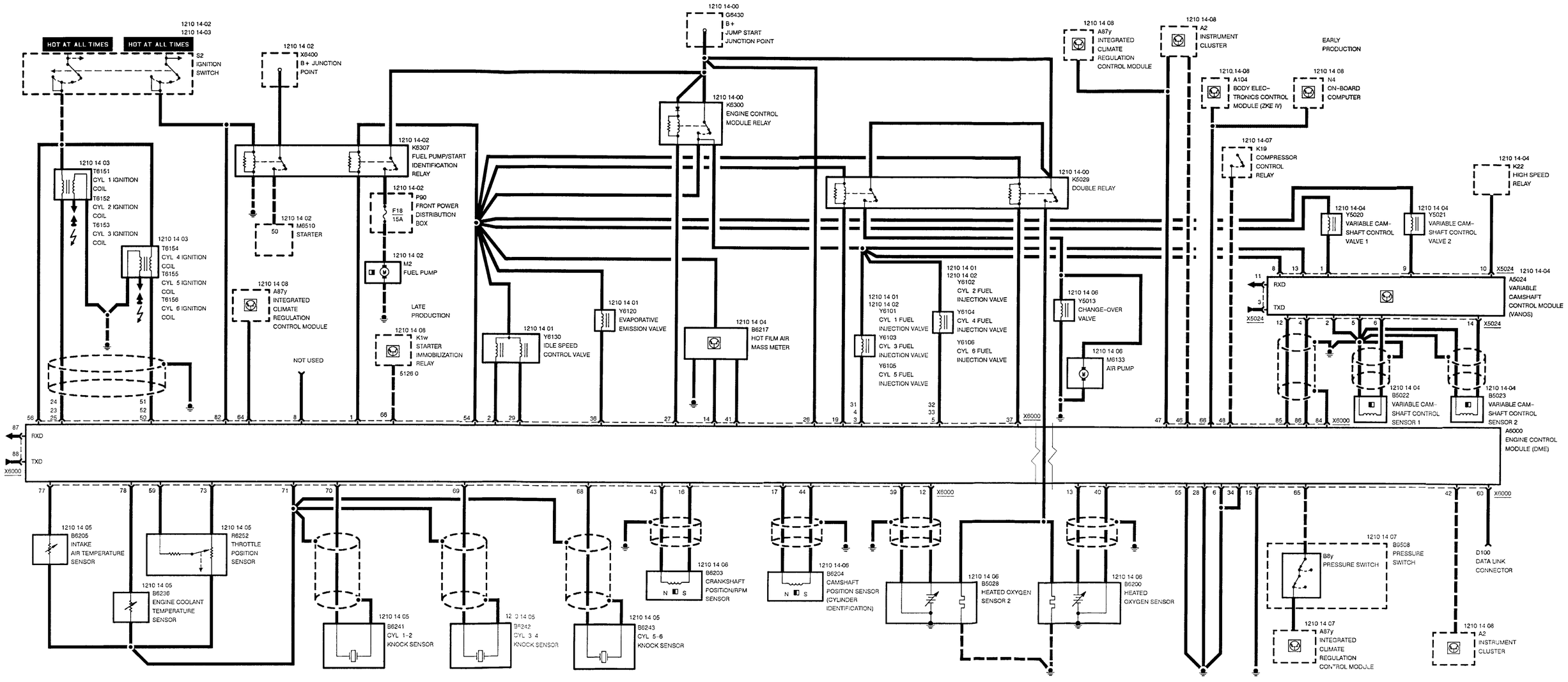
ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

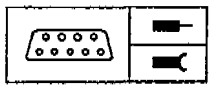


ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



12/94 1210 14 1994
12/94 1210.14 1994





Pin Assignments

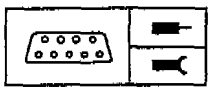
X5024

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

X6000

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

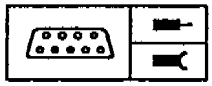
E = Input, A = Output, M = Ground



Pin Assignments

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

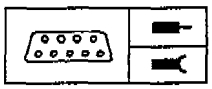
E = Input, A = Output, M = Ground



Pin Assignments

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

E = Input, A = Output, M = Ground



Pin Assignments

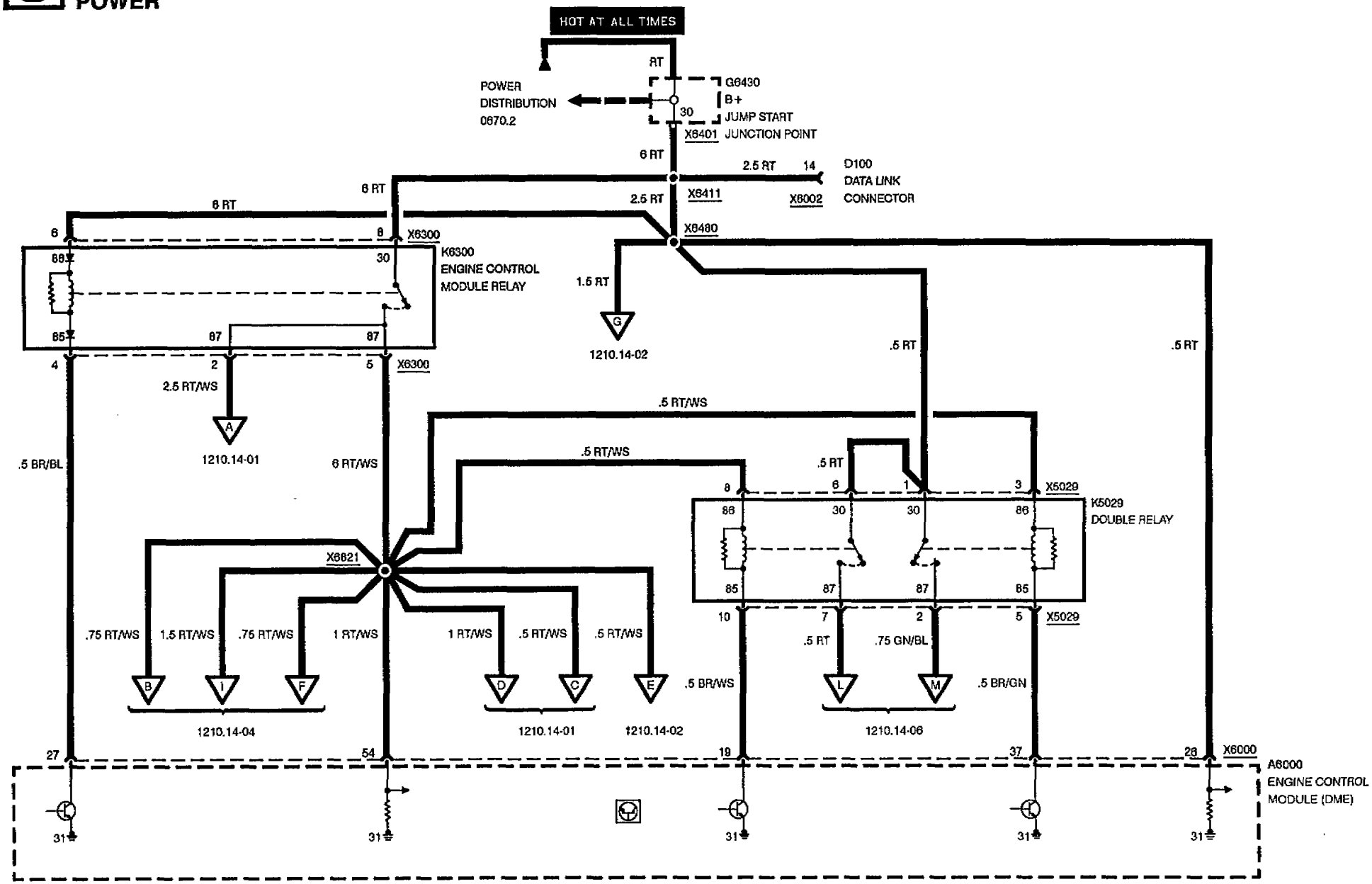
Pin	Type	Description/Function	Connection
74		Not used	
75		Not used	
76		Not used	
77	E	Engine intake air temperature	Engine intake air temperature sensor
78	E	Engine coolant temperature	Engine coolant temperature sensor
79		Not used	
80		Not used	
81		Not used	
82	E	Start revolution signal	Ignition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

E = Input, A = Output, M = Ground

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

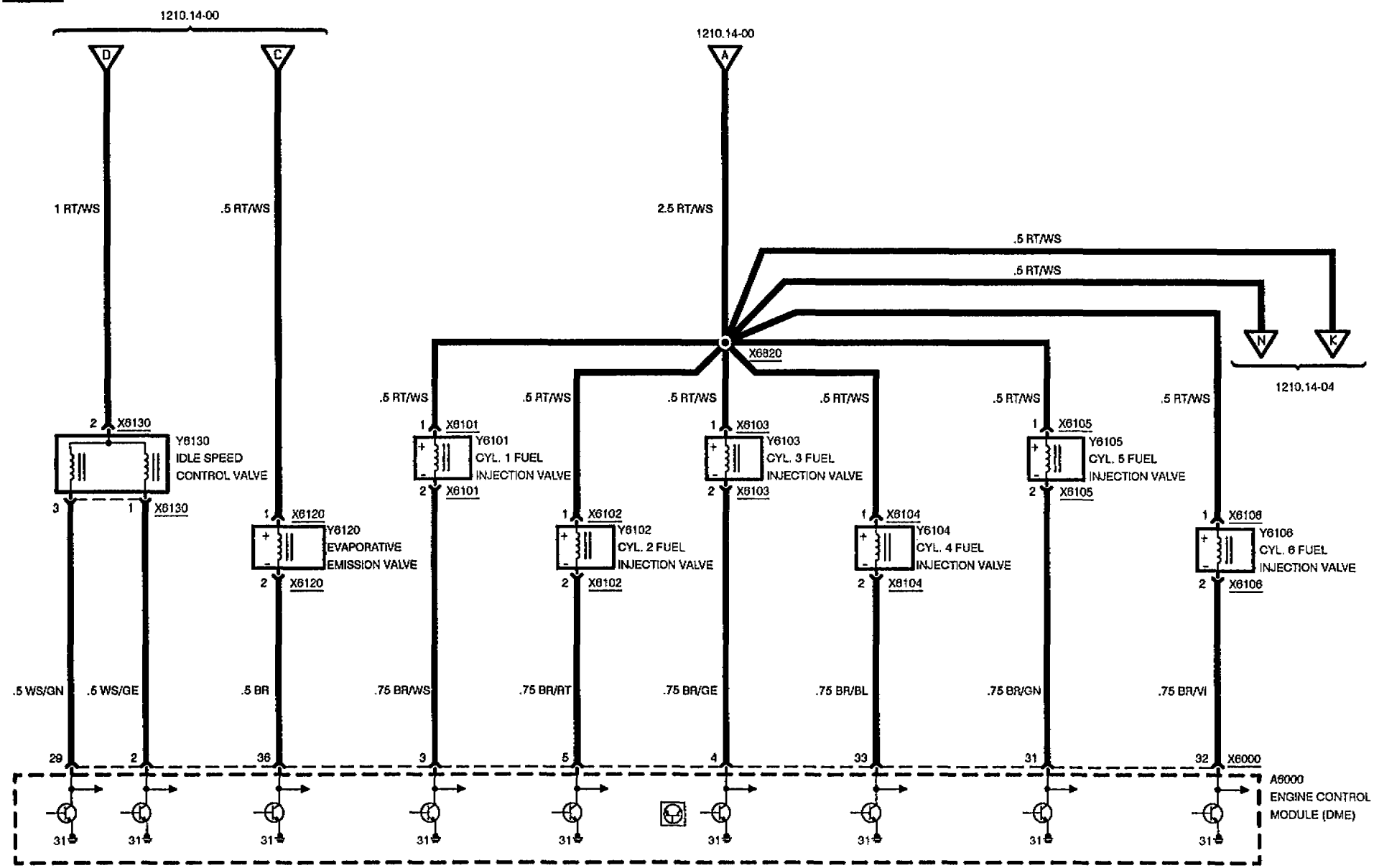
CDN

POWER



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

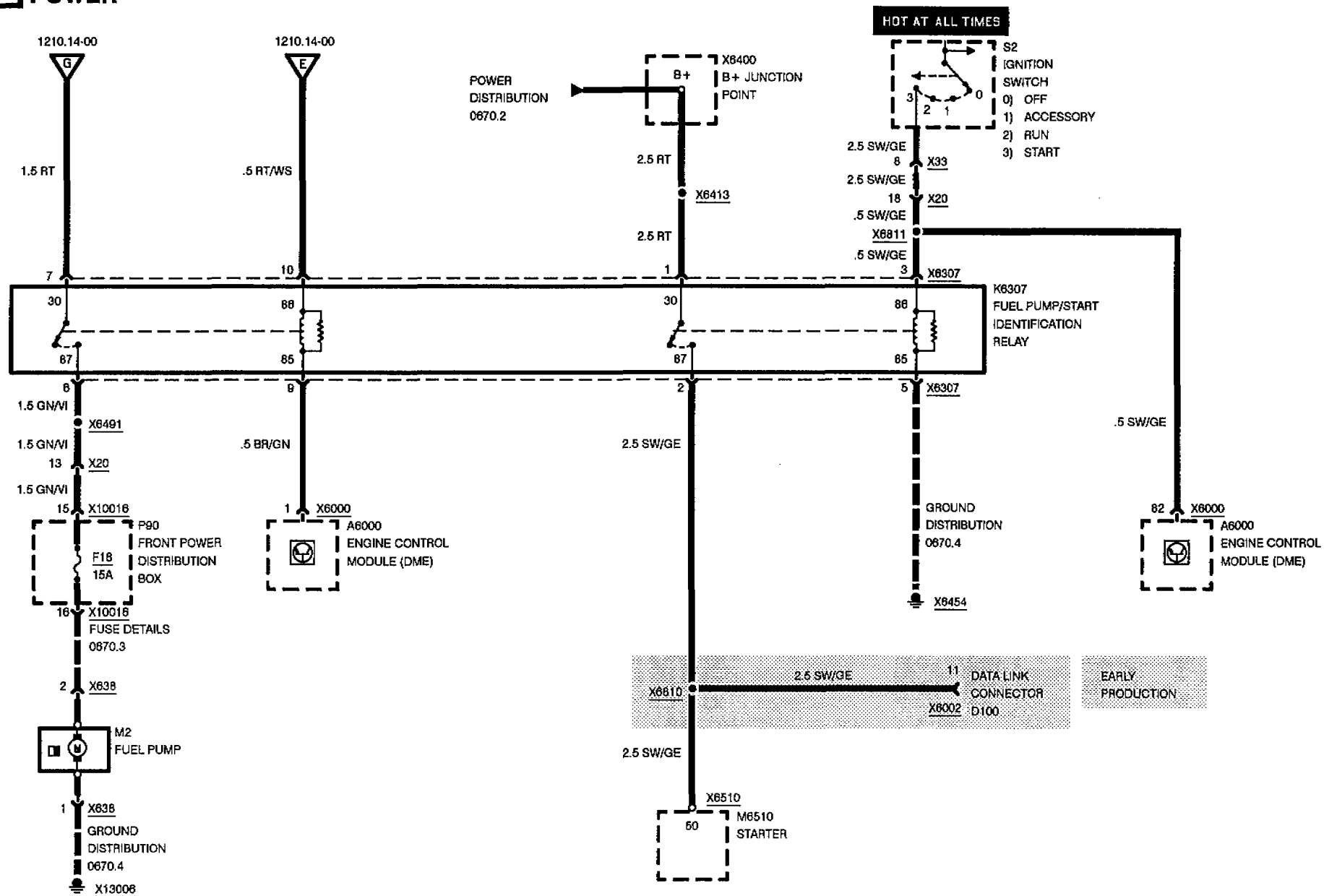
CDN



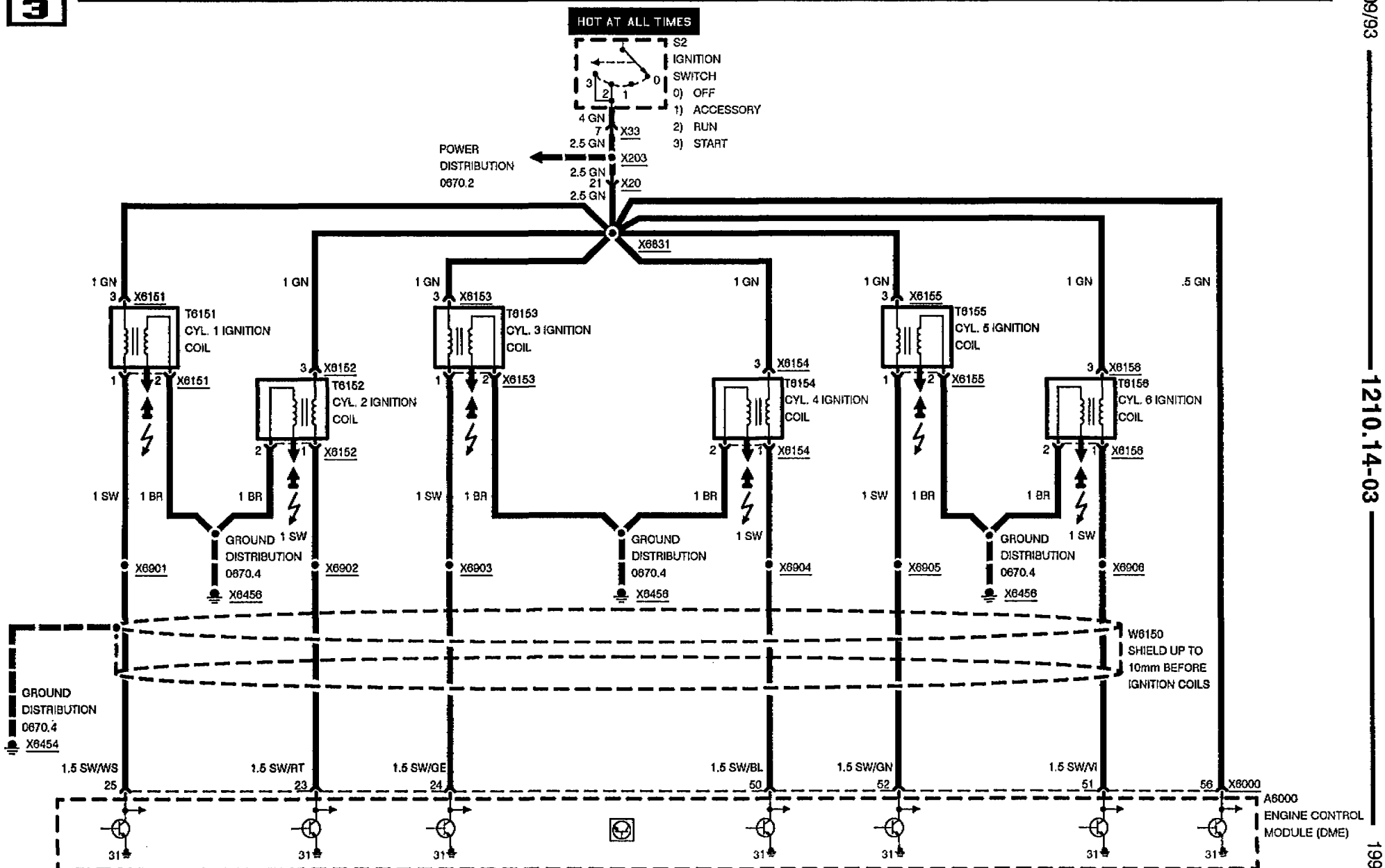
ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)

CDN

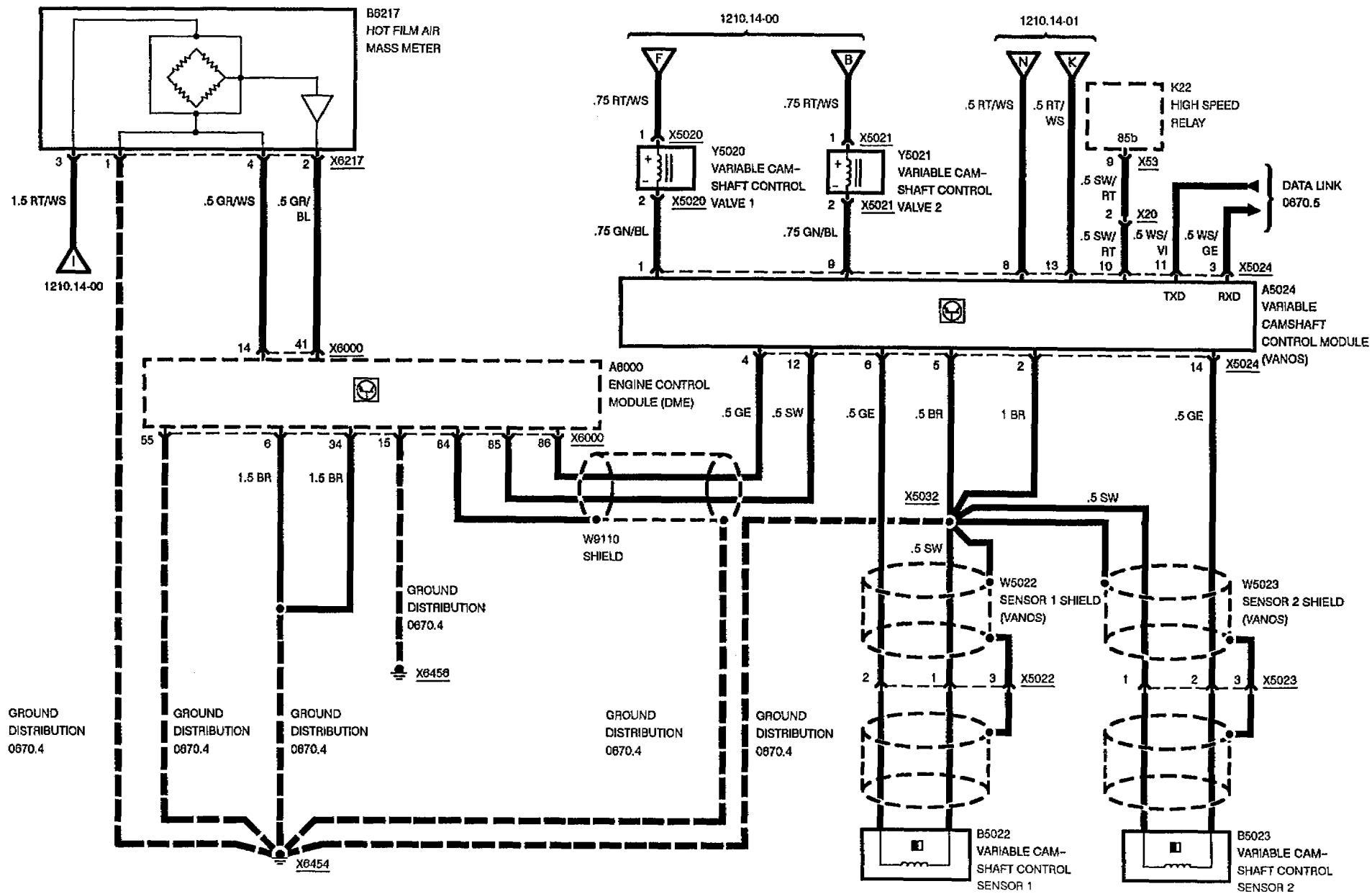
POWER



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

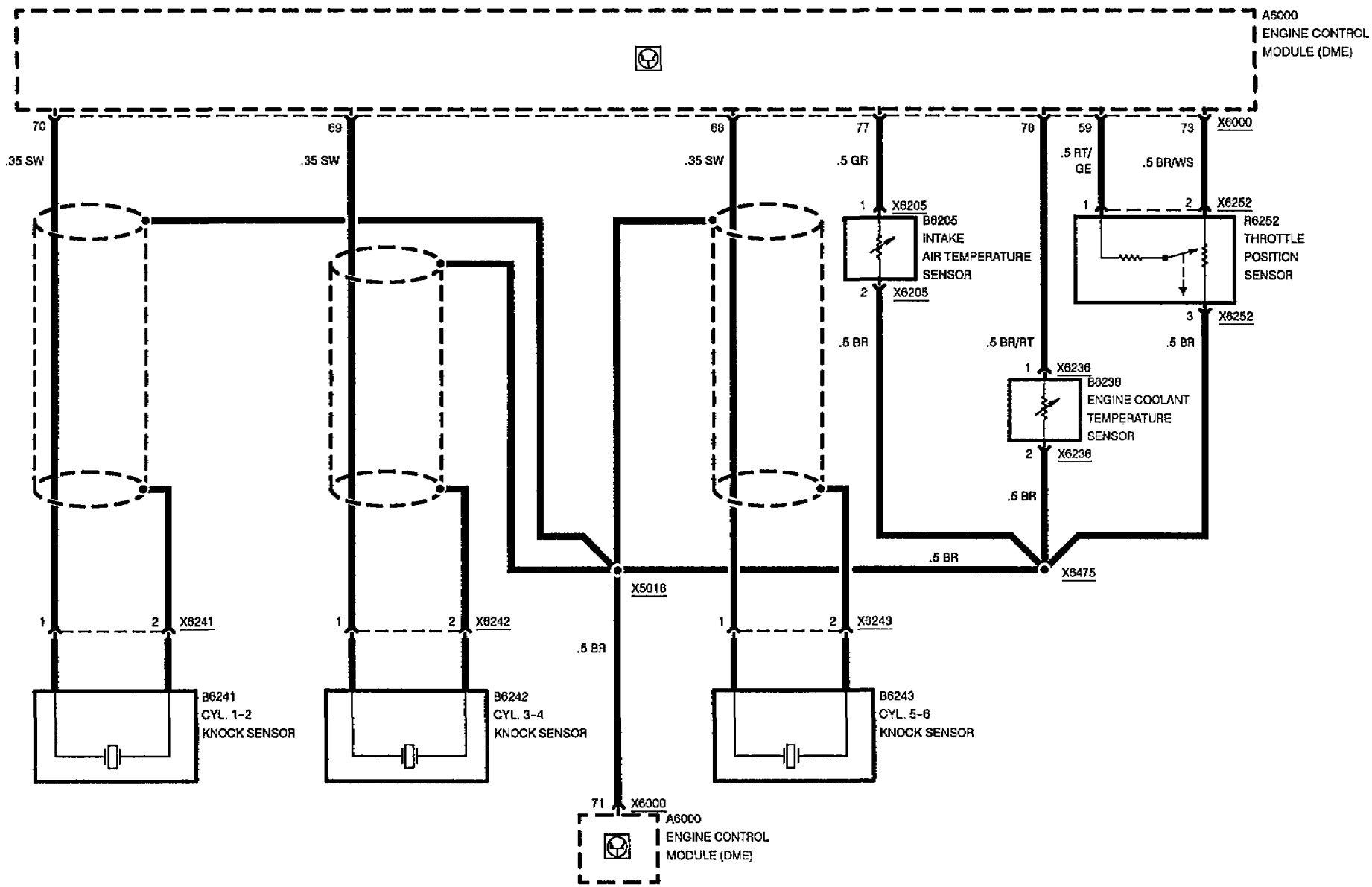


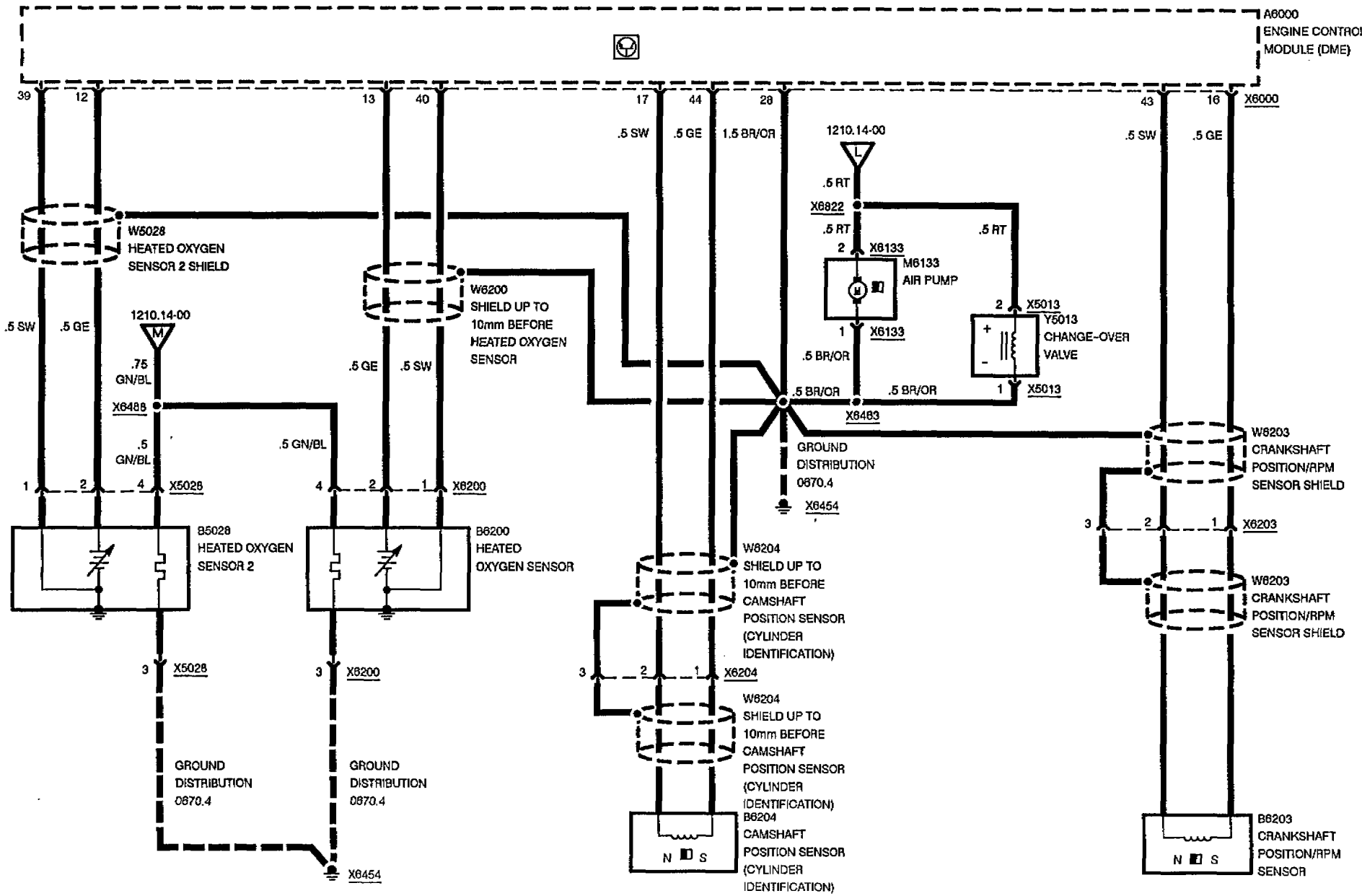
ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)



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

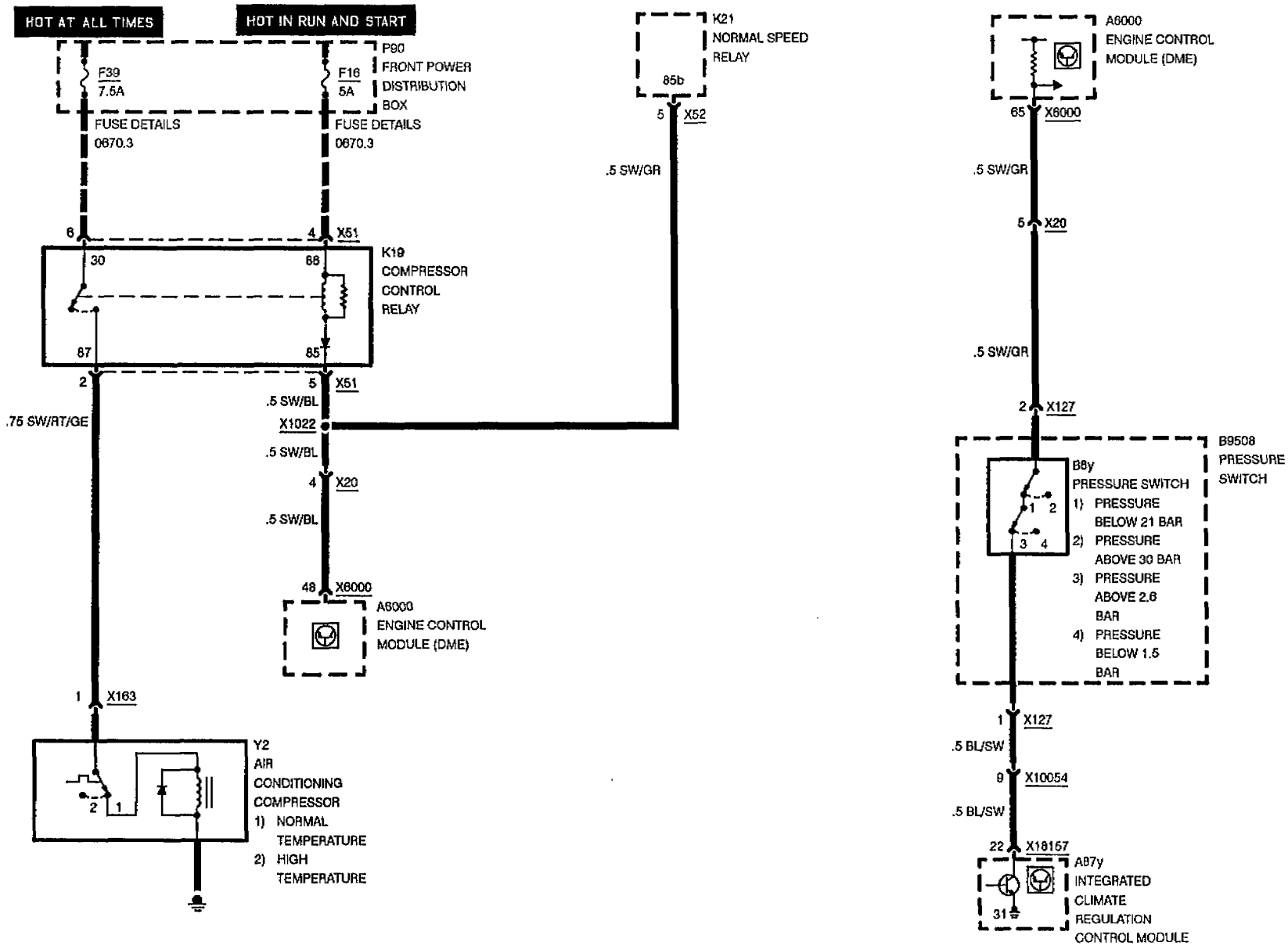
CDN



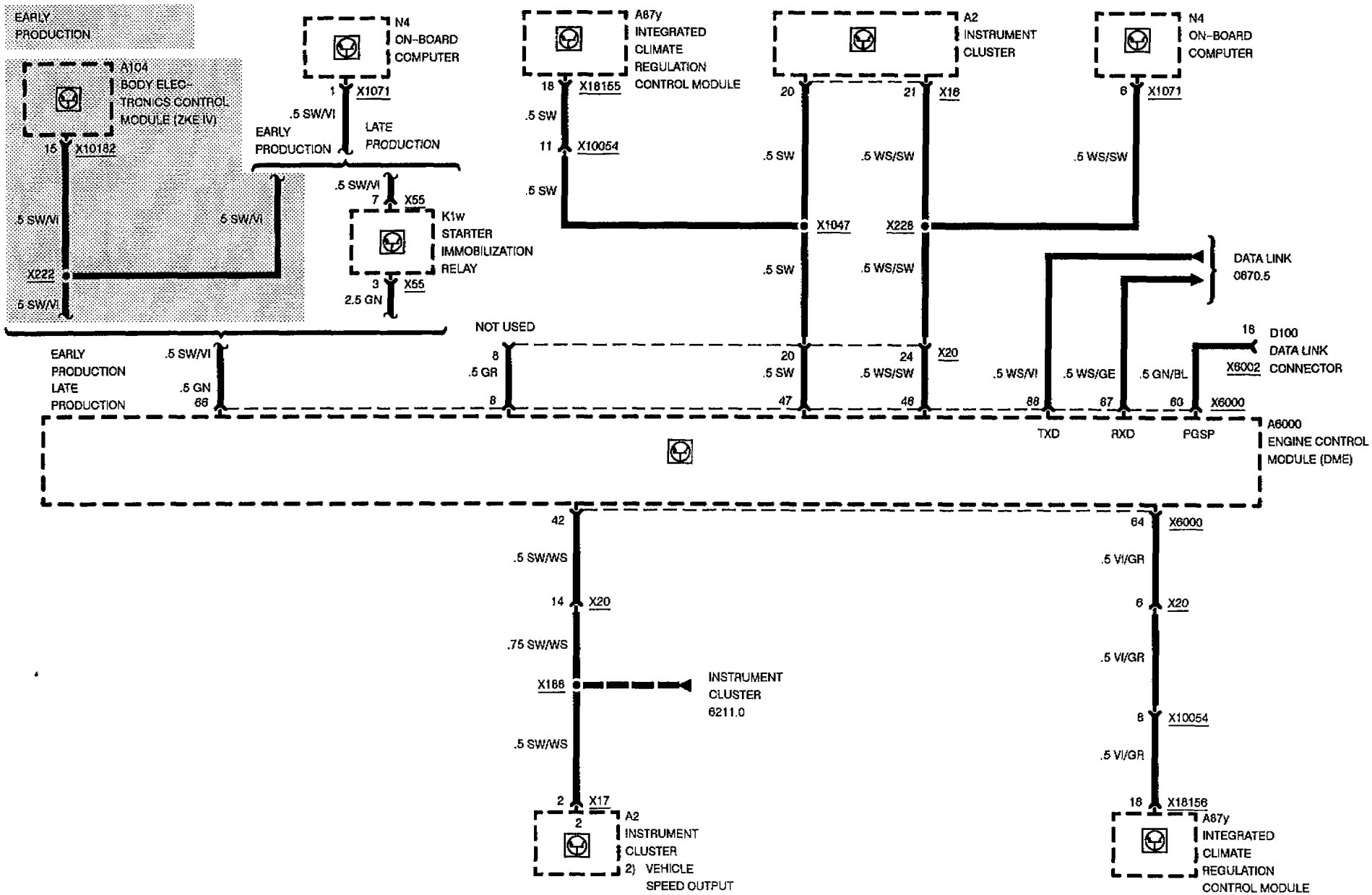

A6000
ENGINE CONTROL MODULE (DME)
39
12
13
40
17
44
28
43
16
X6000
.5 SW
.5 GE
1.5 BR/OR
.5 SW
.5 GE
W5028
HEATED OXYGEN SENSOR 2 SHIELD
W6200
SHIELD UP TO 10mm BEFORE HEATED OXYGEN SENSOR
1210.14-00
.5 SW
.5 GE
.75 GN/BL
X6488
.5 GN/BL
.5 GE
.5 SW
.5 GN/BL
1
2
4
X5028
4
2
1
X6200
B5028
HEATED OXYGEN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

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

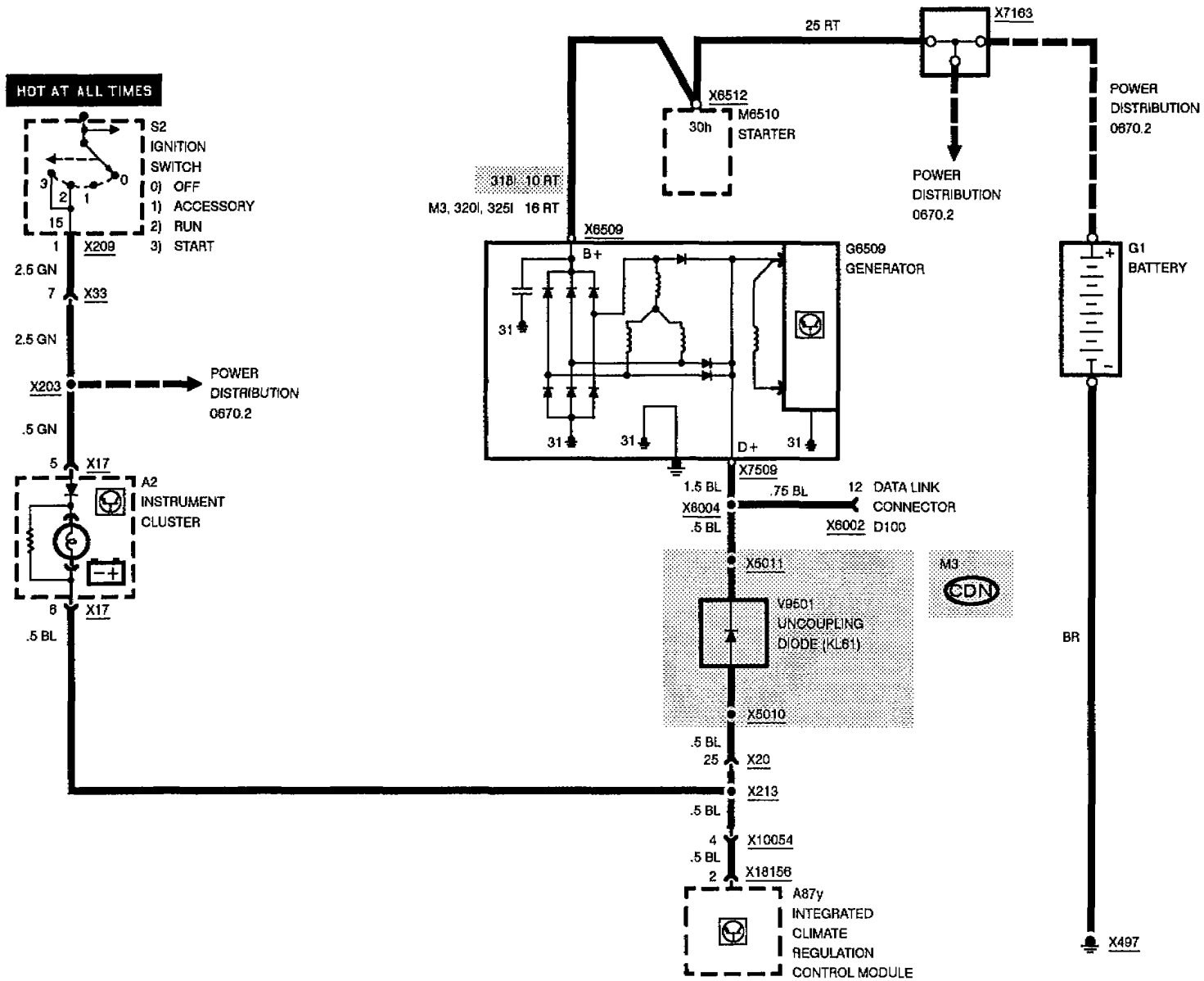
CDN

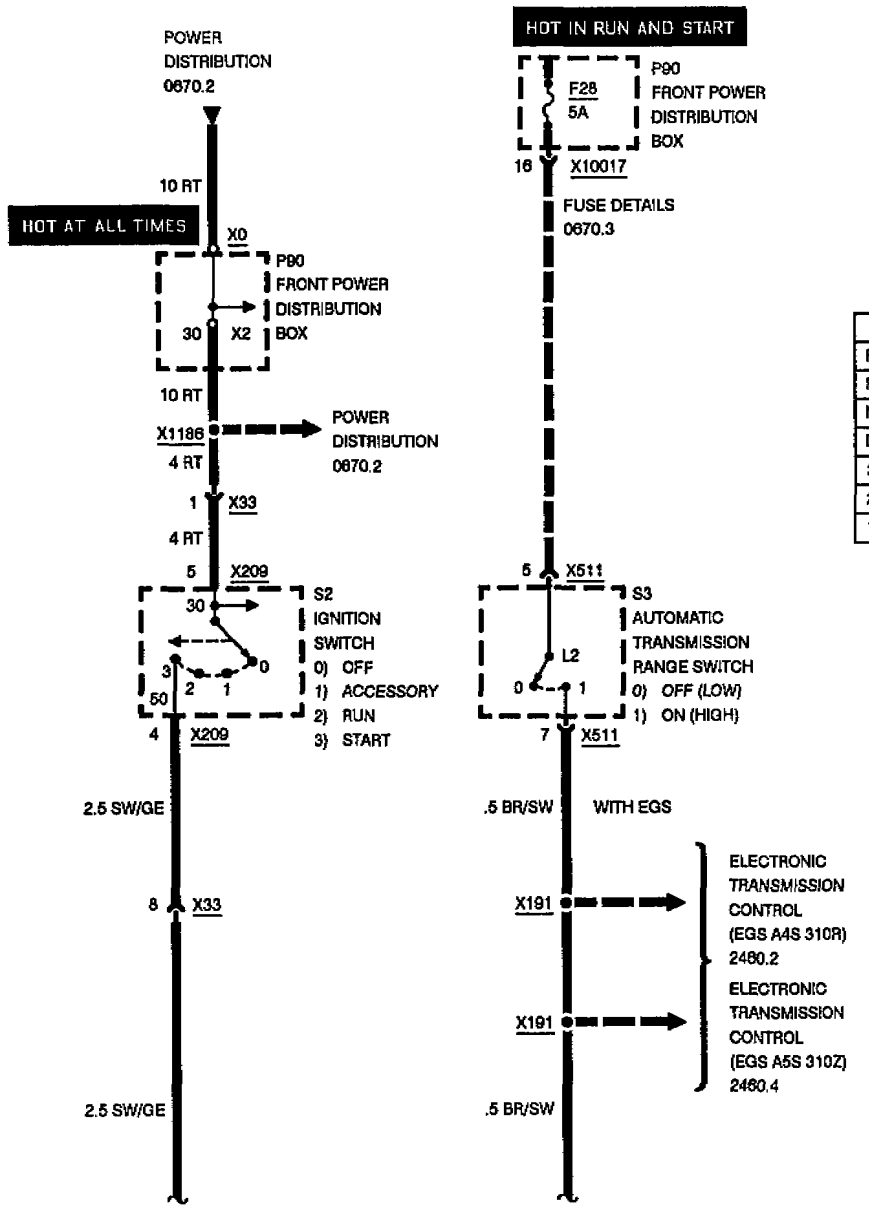


ENGINE CONTROL SYSTEM (DME M3.3, 6-CYLINDER S50 B30)



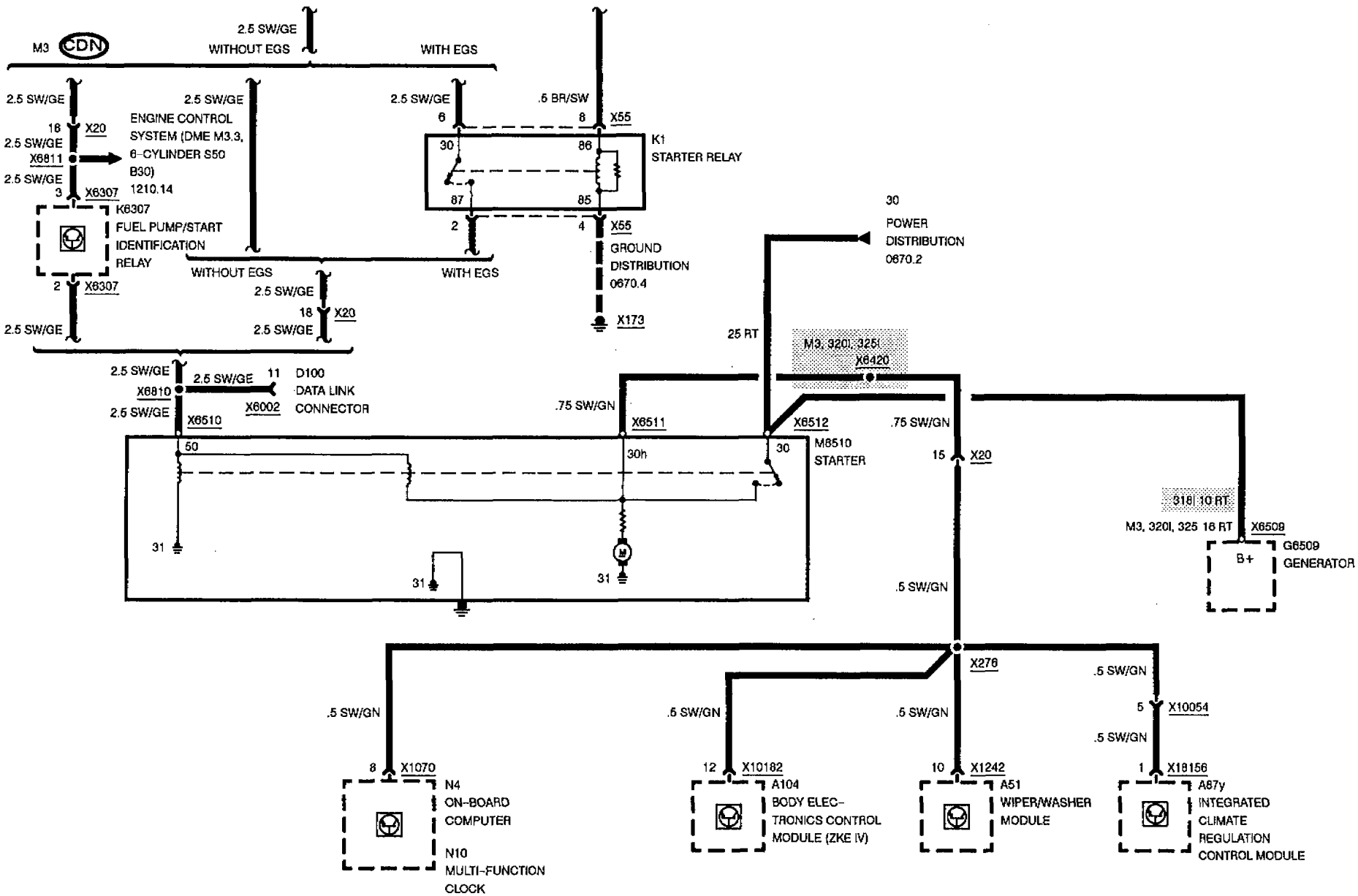
CHARGING SYSTEM

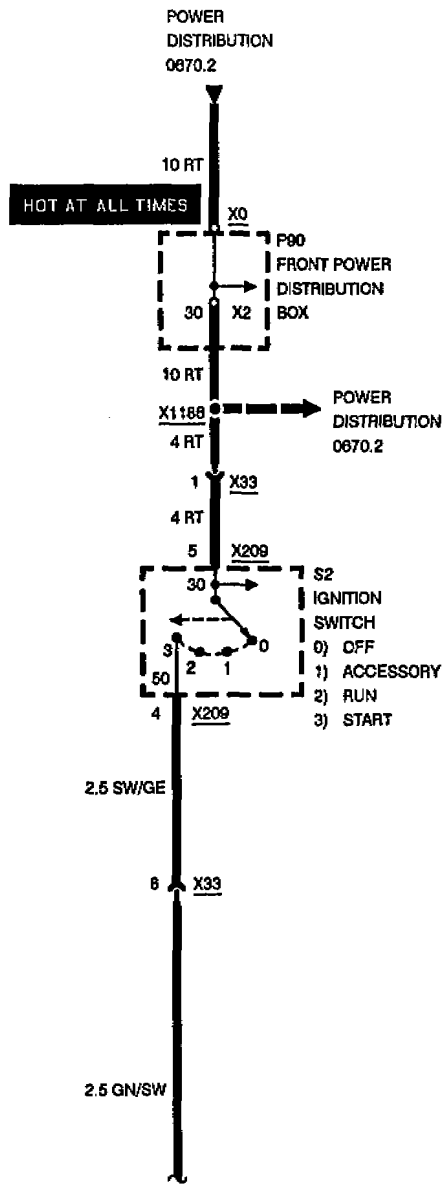


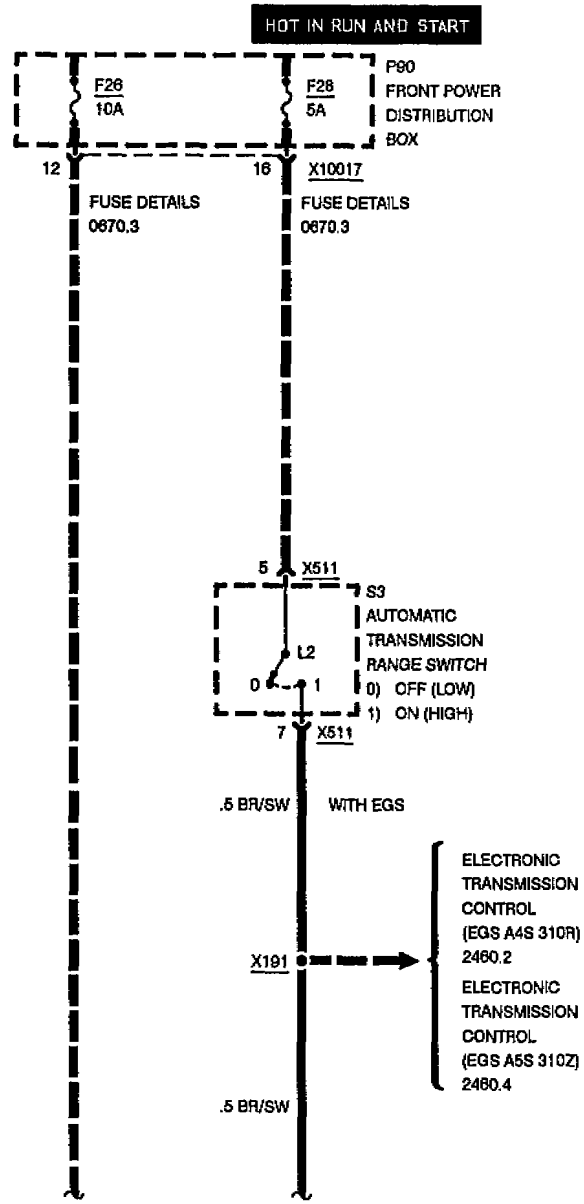


	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

EARLY PRODUCTION

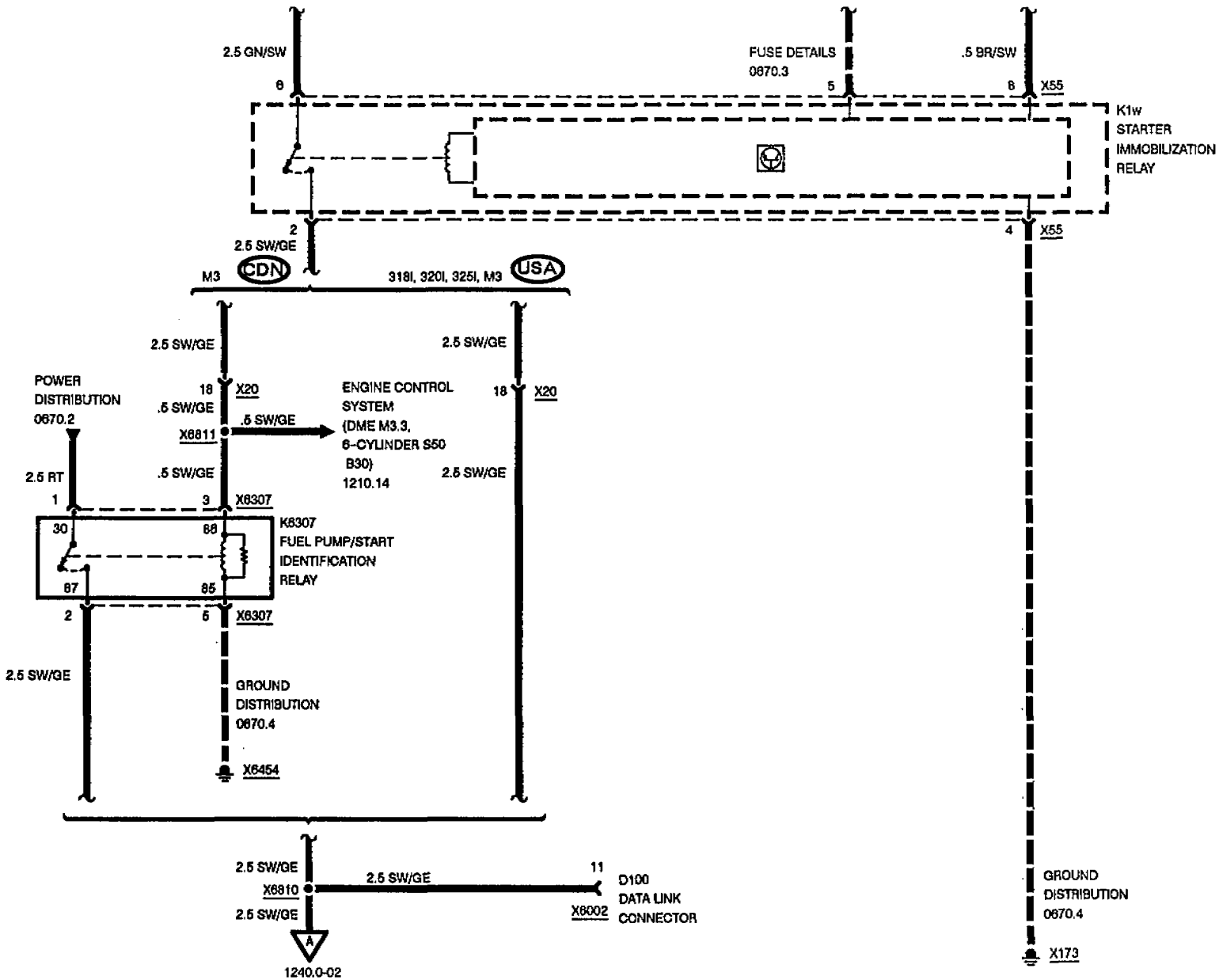


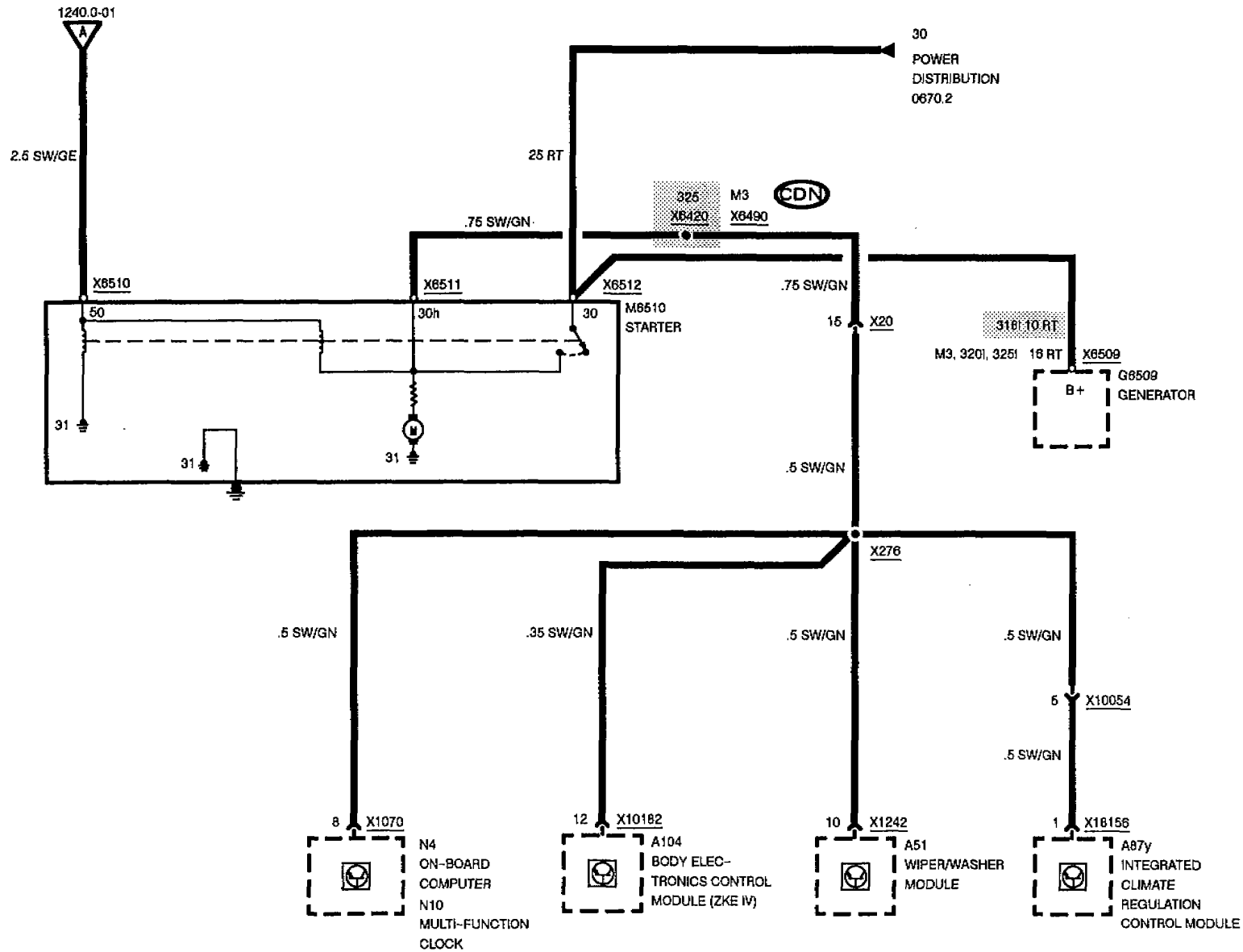


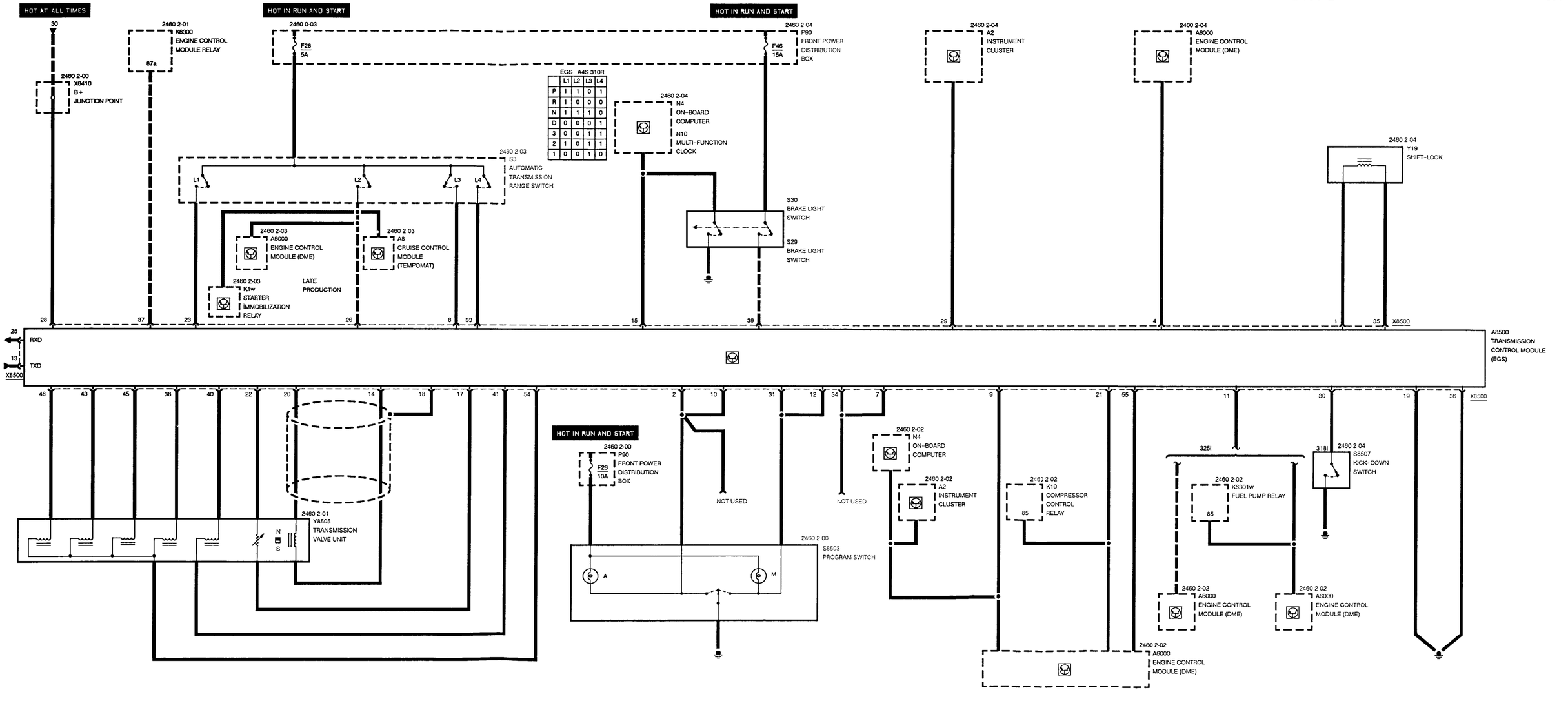


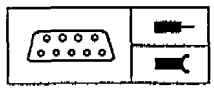
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
3	0	0	1	1
2	1	0	1	1
1	0	0	1	0

LATE PRODUCTION




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


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

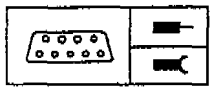


Pin Assignments

X8500

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

E = Input, A = Output, M = Ground



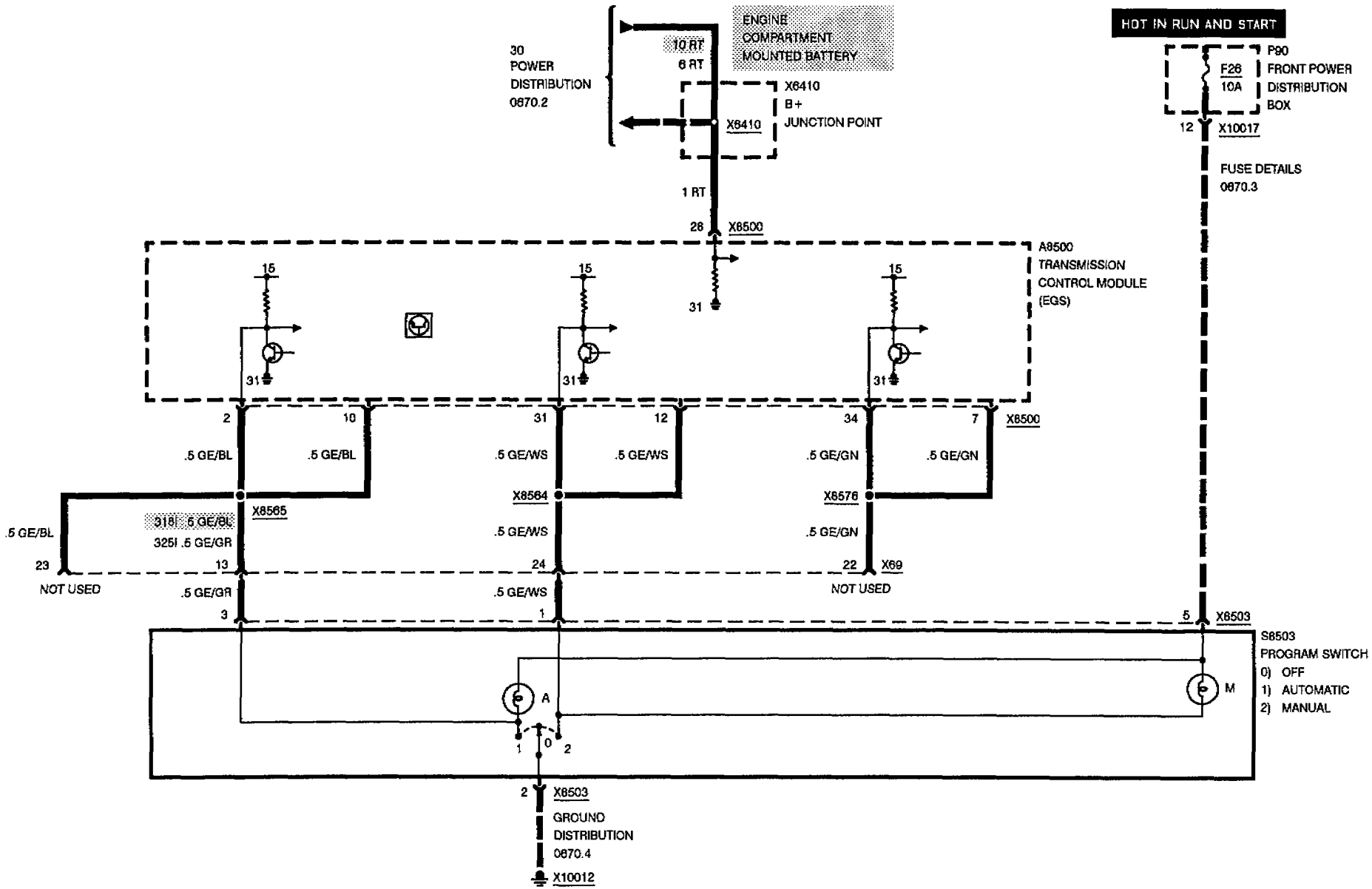
Pin Assignments

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

E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

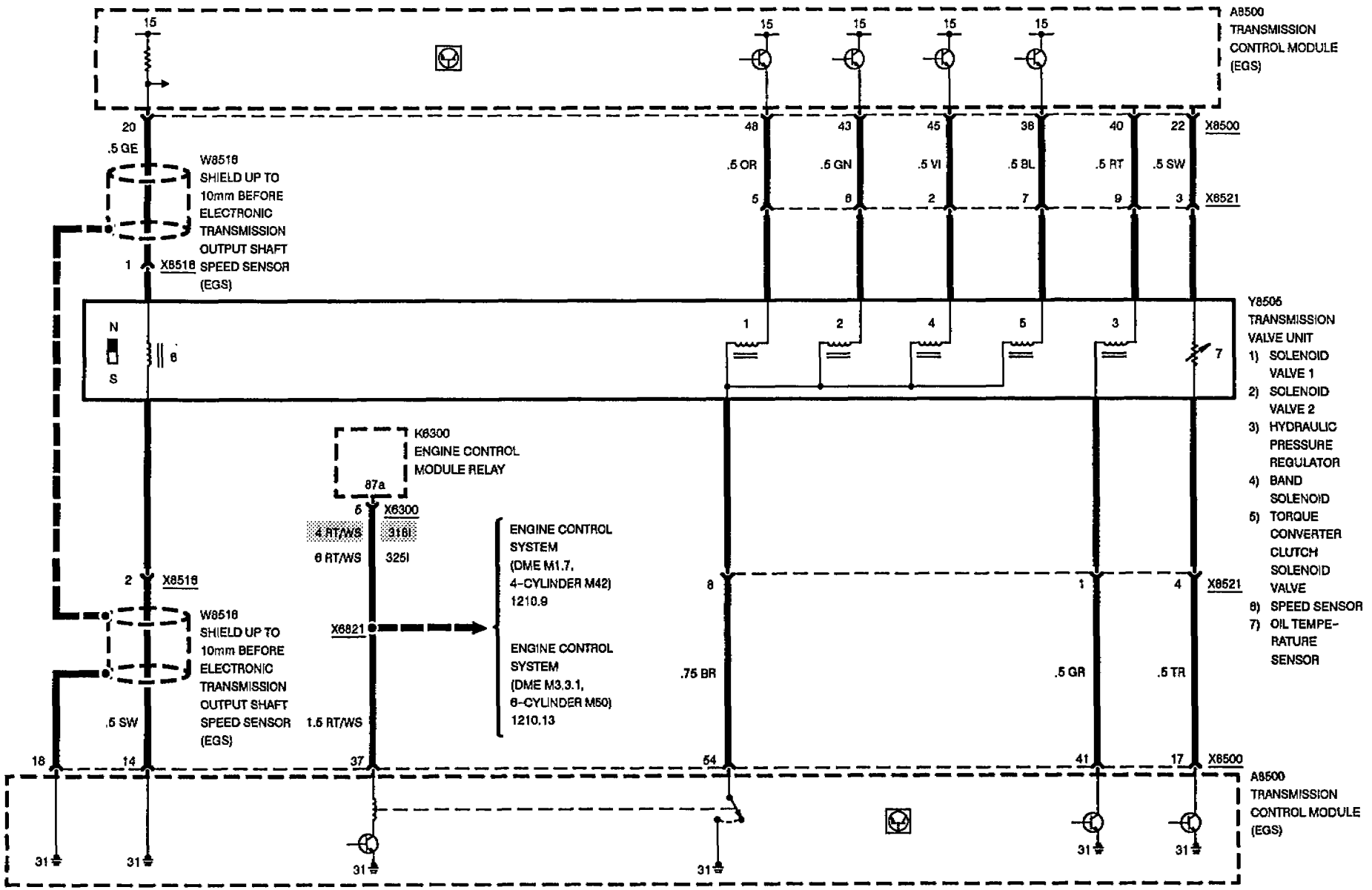
POWER, PROGRAM SWITCH



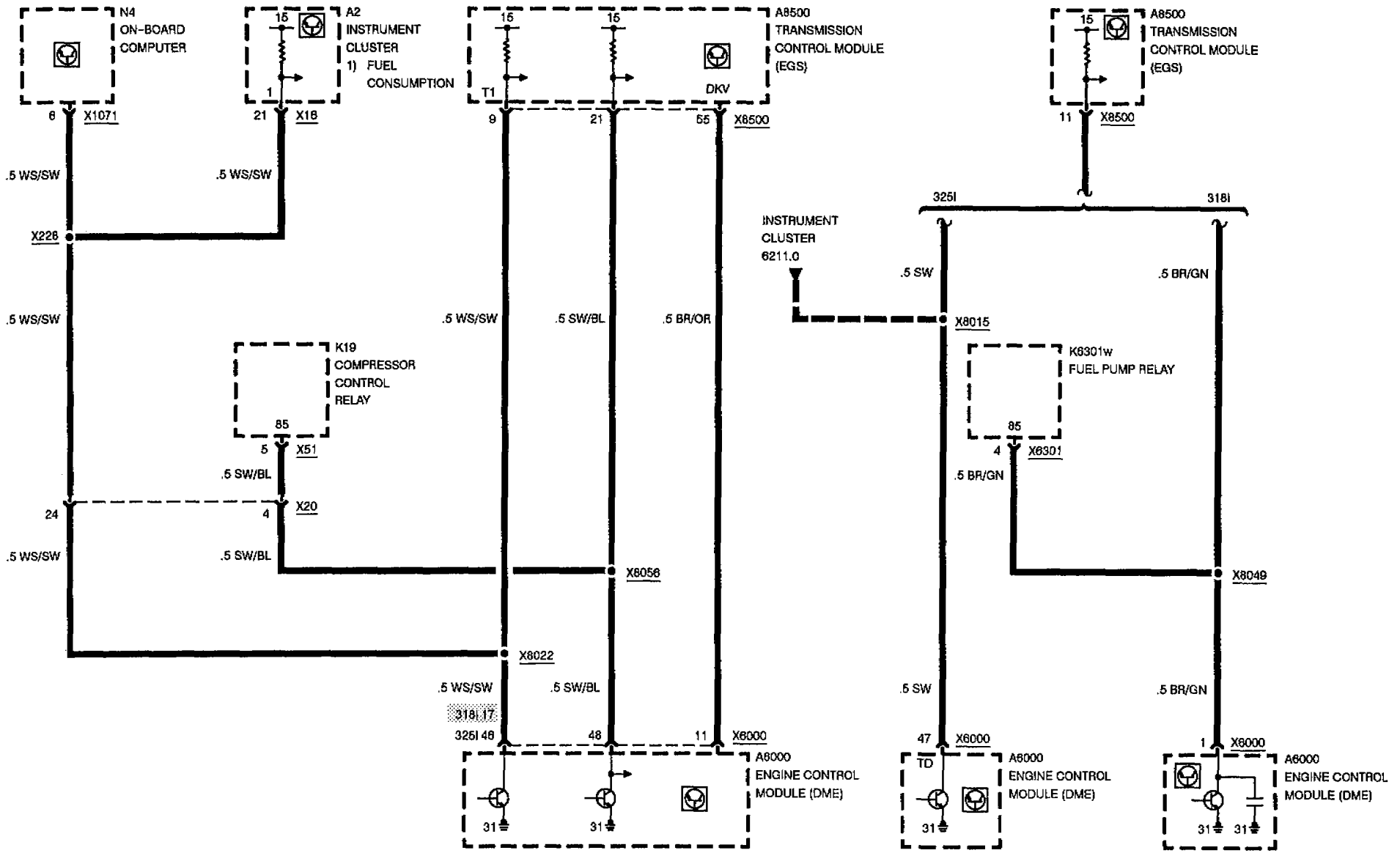
BMW 3

ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR VALVE UNIT

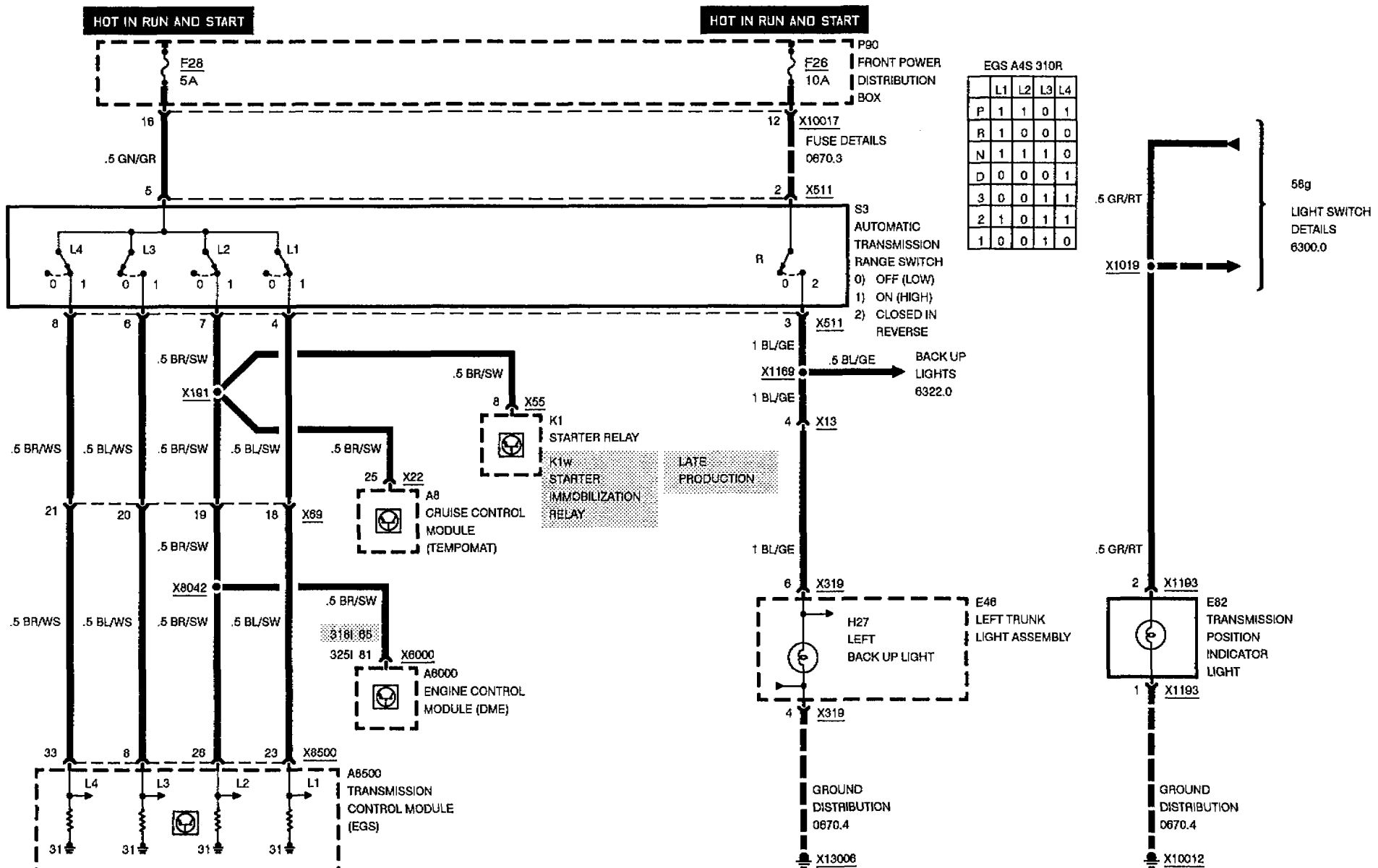


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



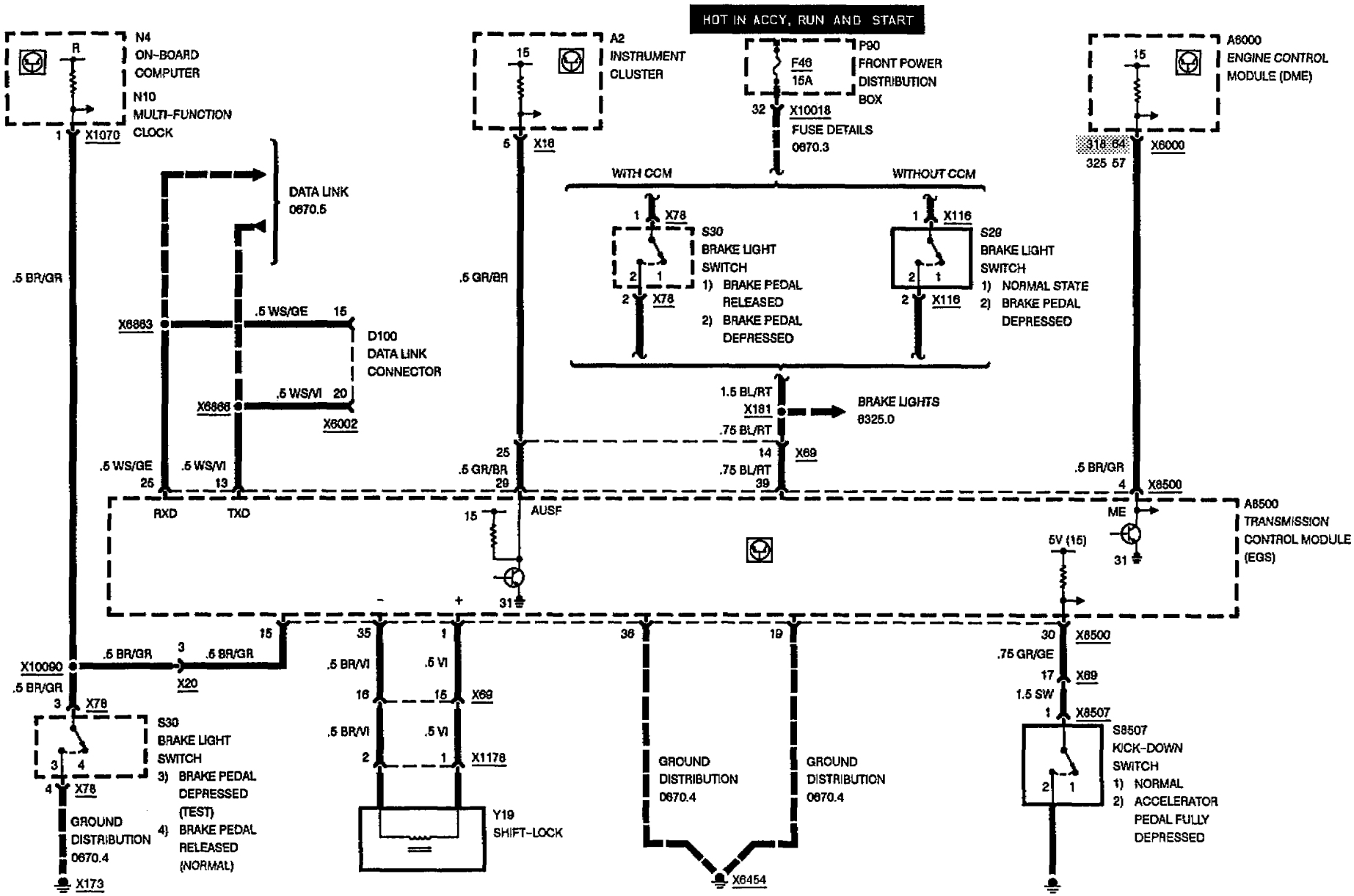
ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

GEAR SELECTOR SWITCH

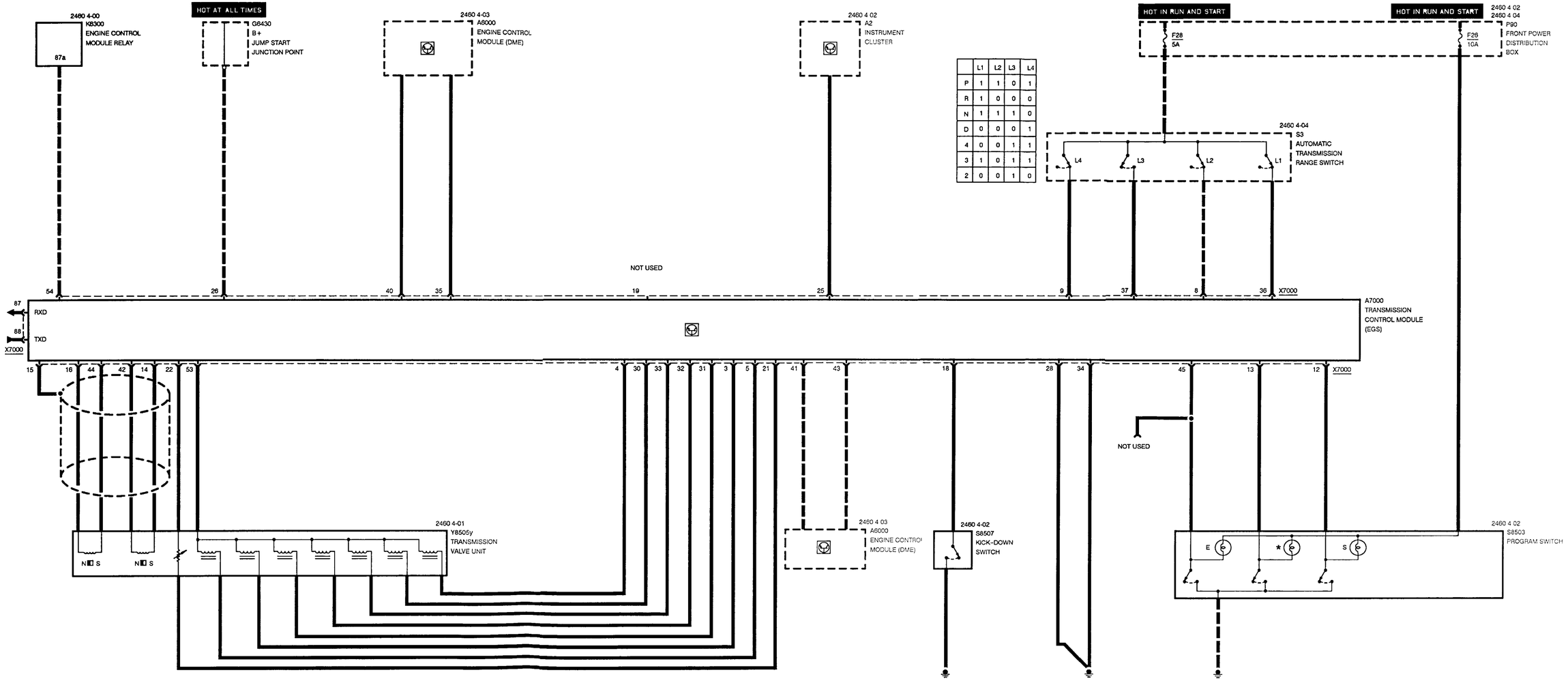


ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

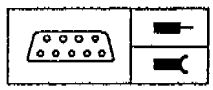
SHIFT LOCK, DATA LINK, KICK-DOWN SWITCH



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



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

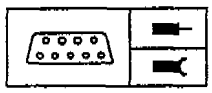


Pin Assignments

X7000

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

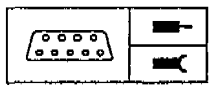
E = Input, A = Output, M = Ground



Pin Assignments

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

E = Input, A = Output, M = Ground

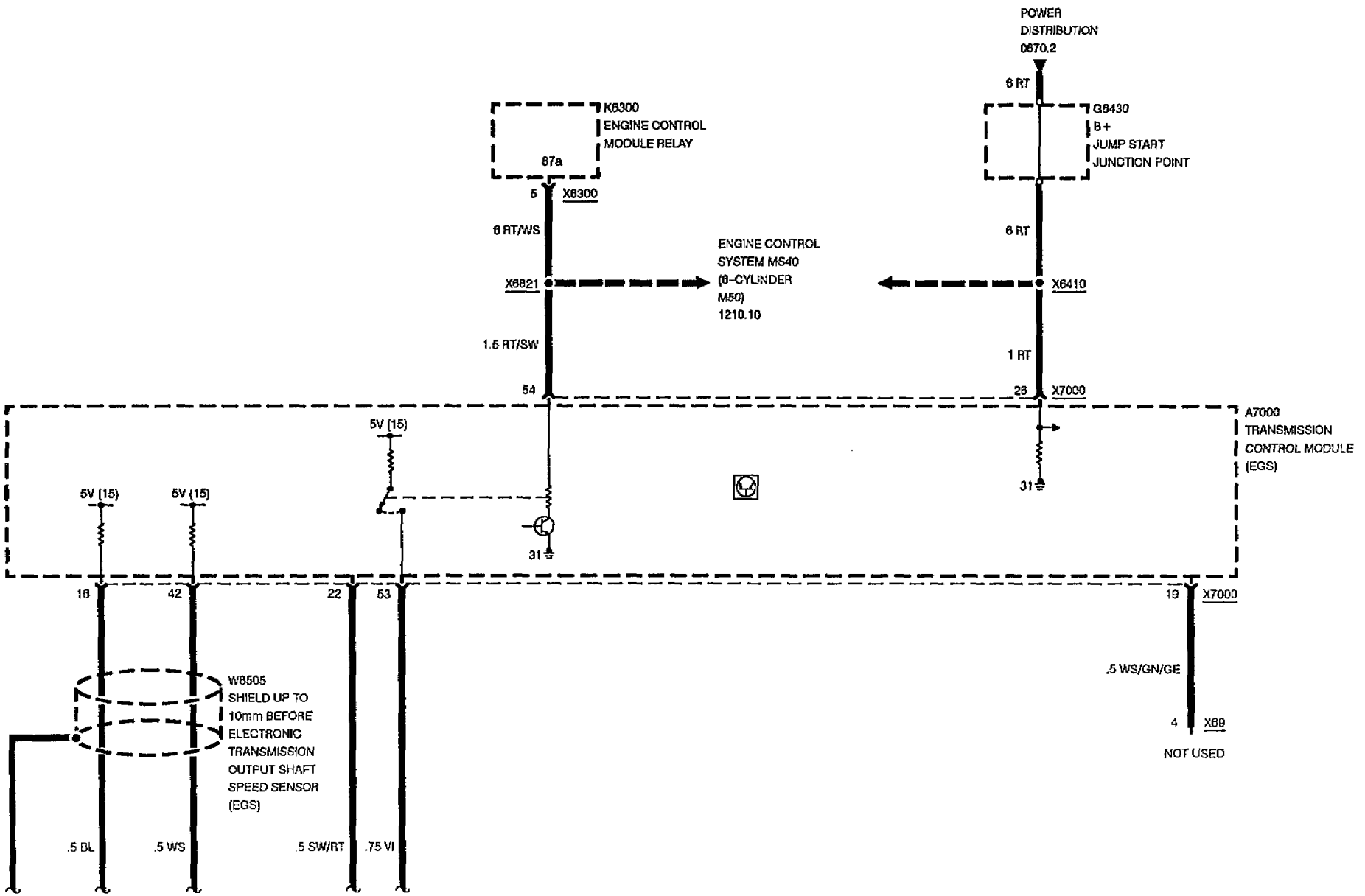


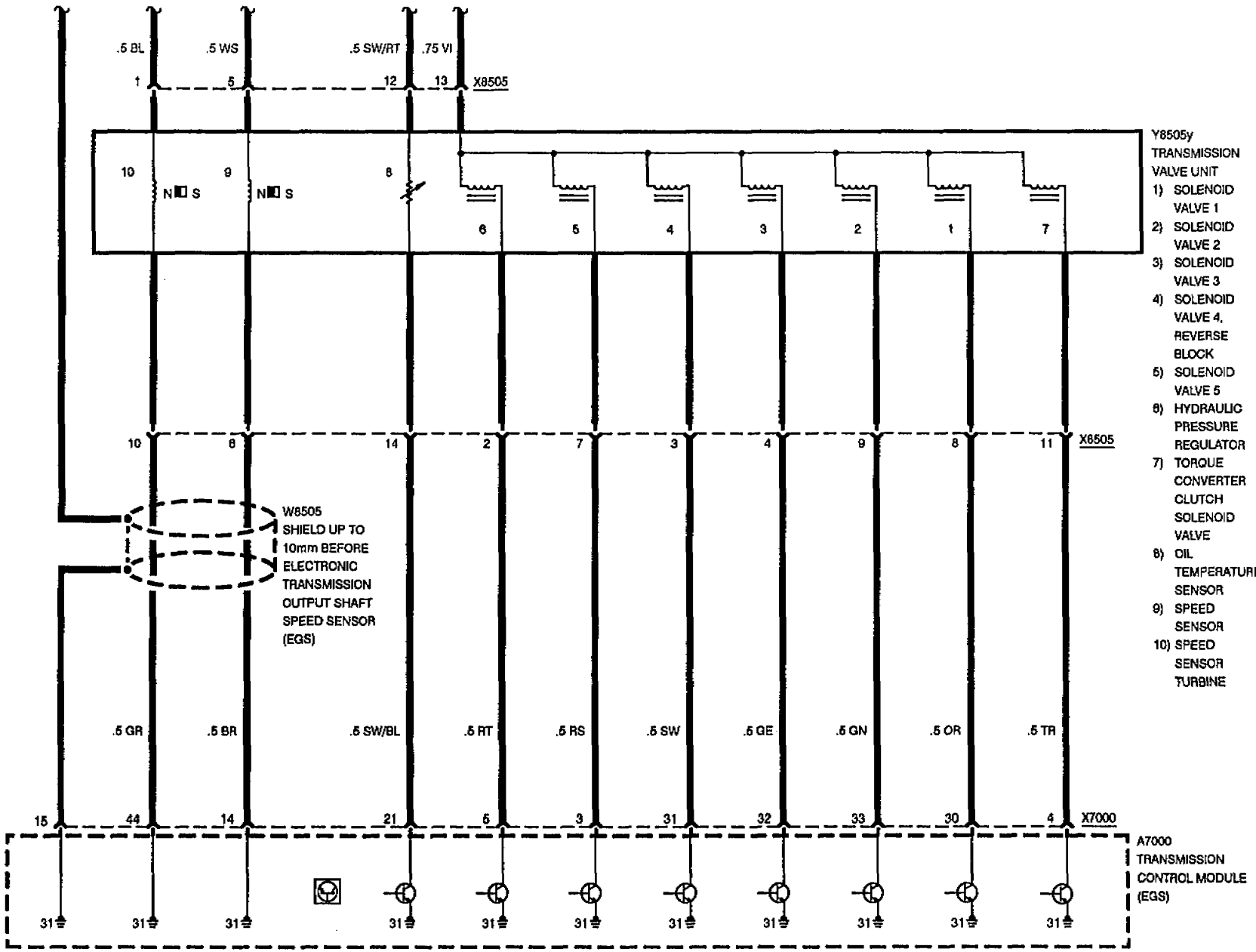
Pin Assignments

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

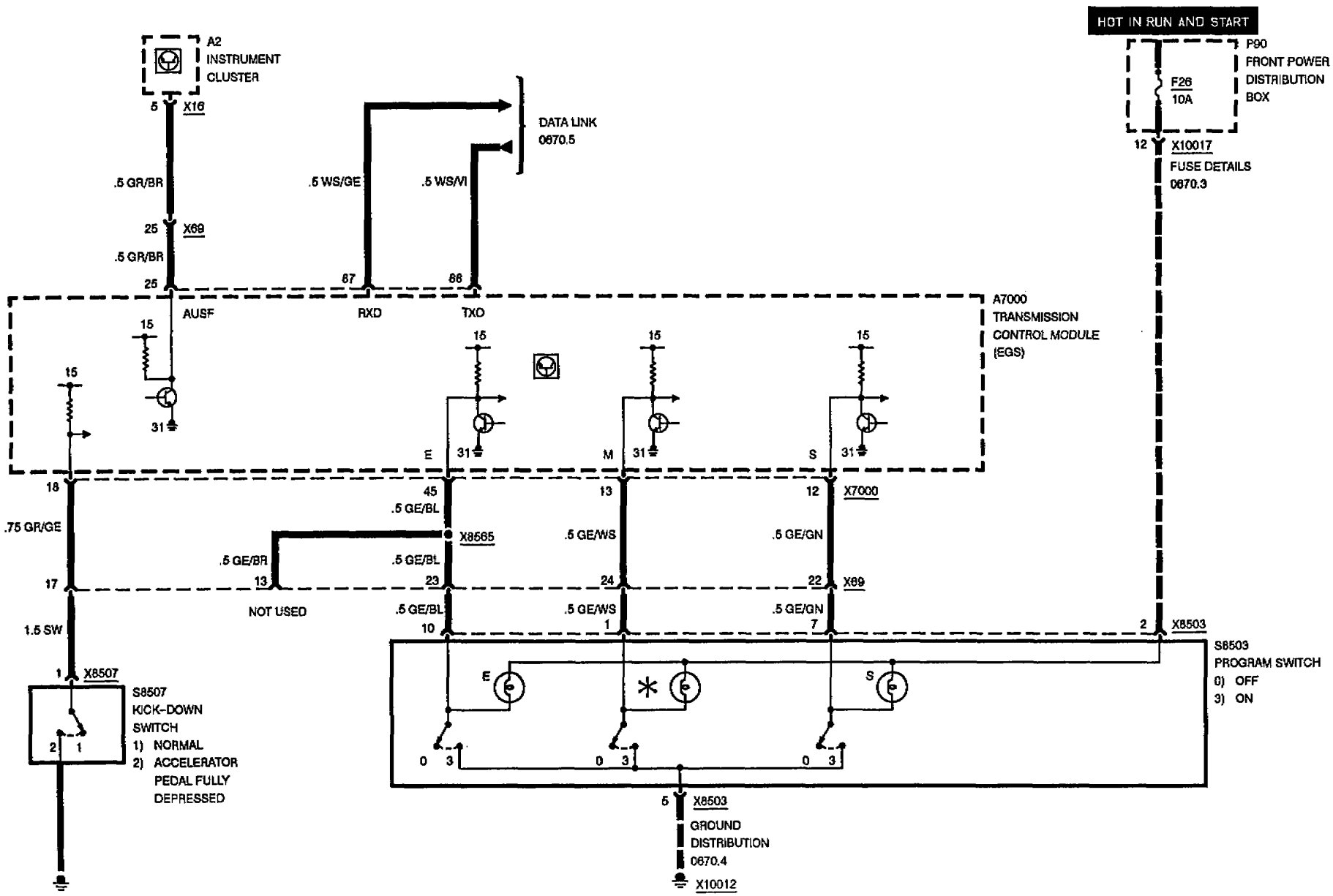
E = Input, A = Output, M = Ground

ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

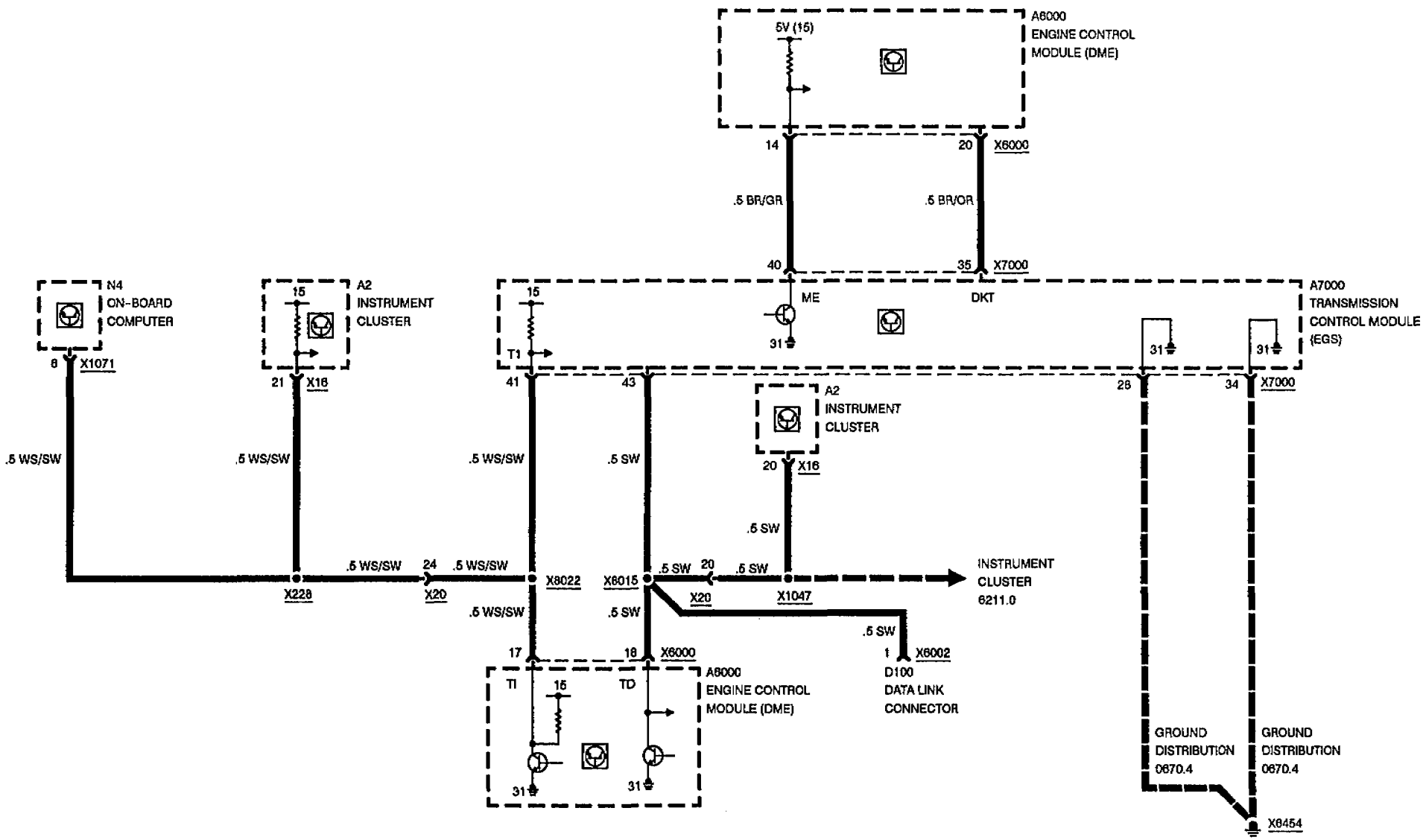



.5 BL
.5 WS
.5 SW/RT
.75 VI
1
5
12
13
X8505
10
9
8
N
S
6
5
4
3
2
1
7
Y8505y
TRANSMISSION
VALVE UNIT
1) SOLENOID VALVE 1
2) SOLENOID VALVE 2
3) SOLENOID VALVE 3
4) SOLENOID VALVE 4, REVERSE BLOCK
5) SOLENOID VALVE 5
6) HYDRAULIC PRESSURE REGULATOR
7) TORQUE CONVERTER CLUTCH SOLENOID VALVE
8) OIL TEMPERATURE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

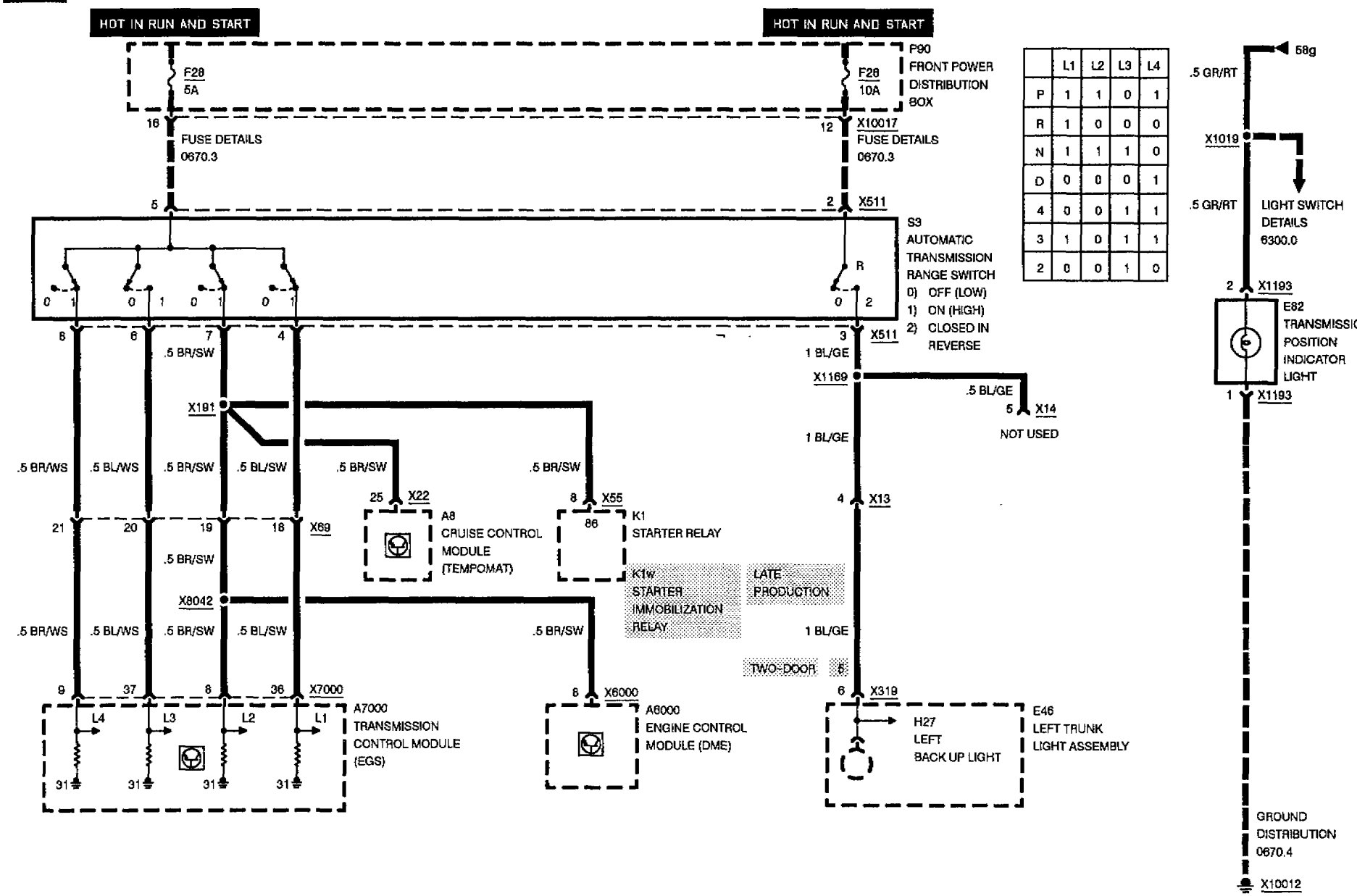
ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)



ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

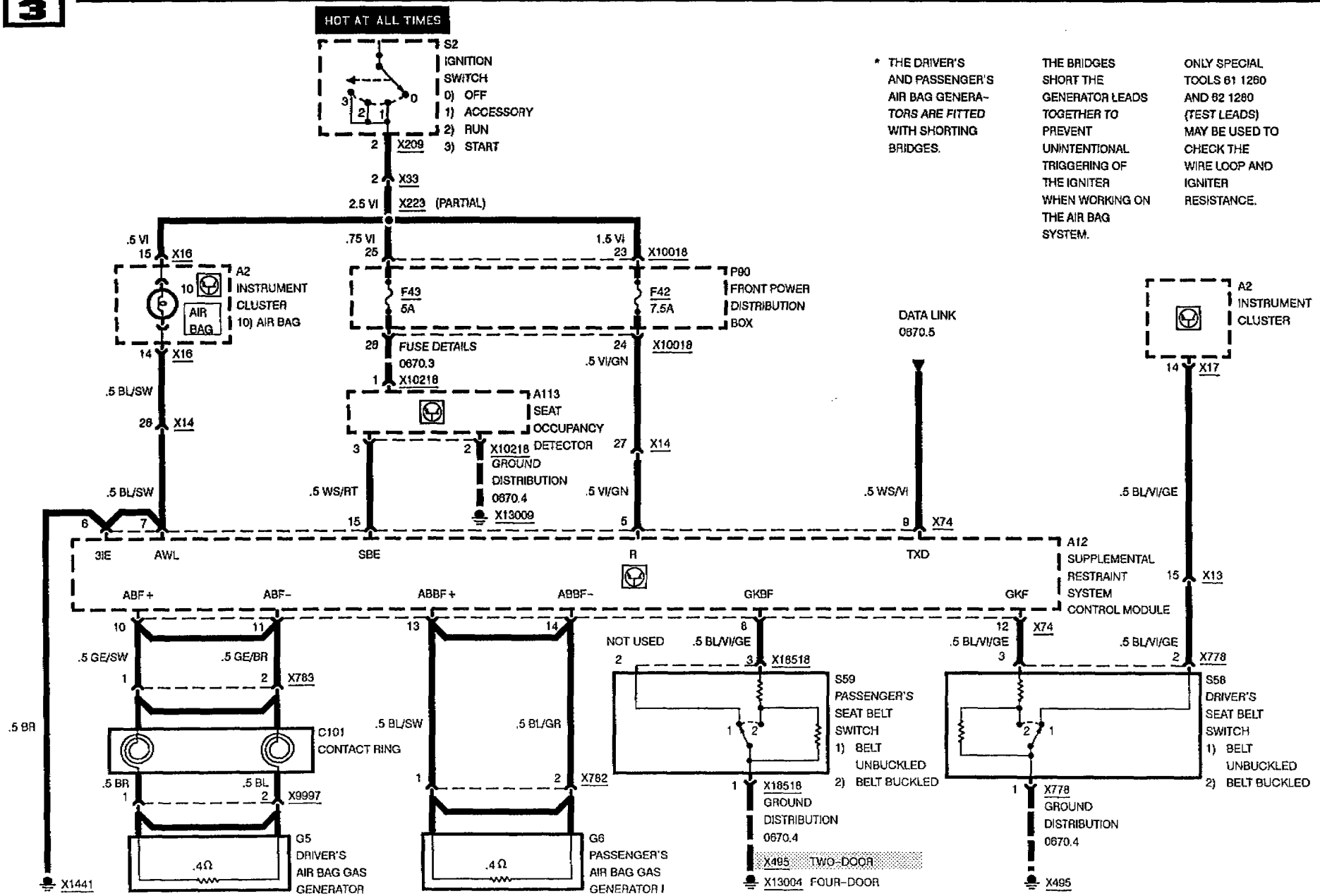


ELECTRONIC TRANSMISSION CONTROL (EGS A5S 310Z)

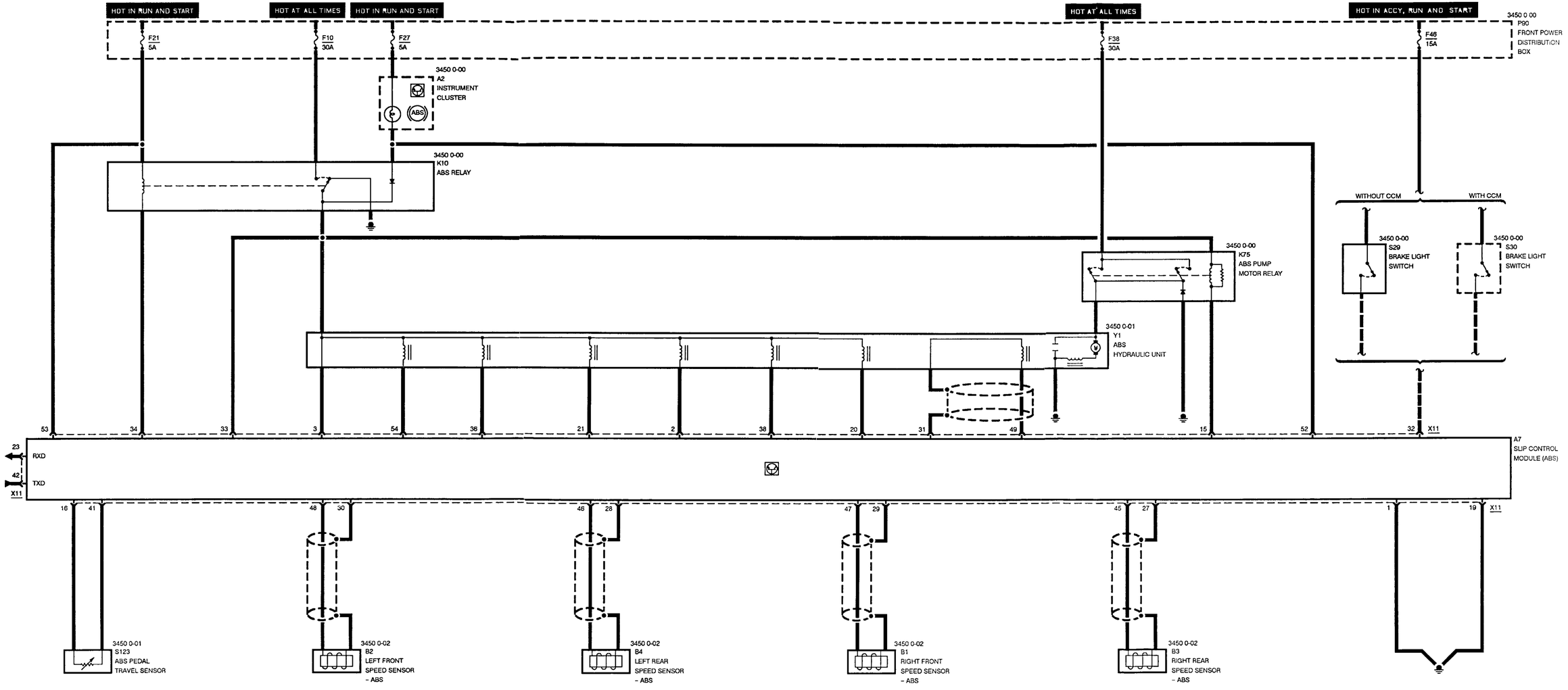


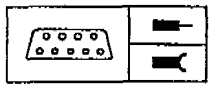
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



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



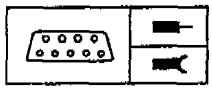


Pin Assignments

X11

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

E = Input, A = Output, M = Ground

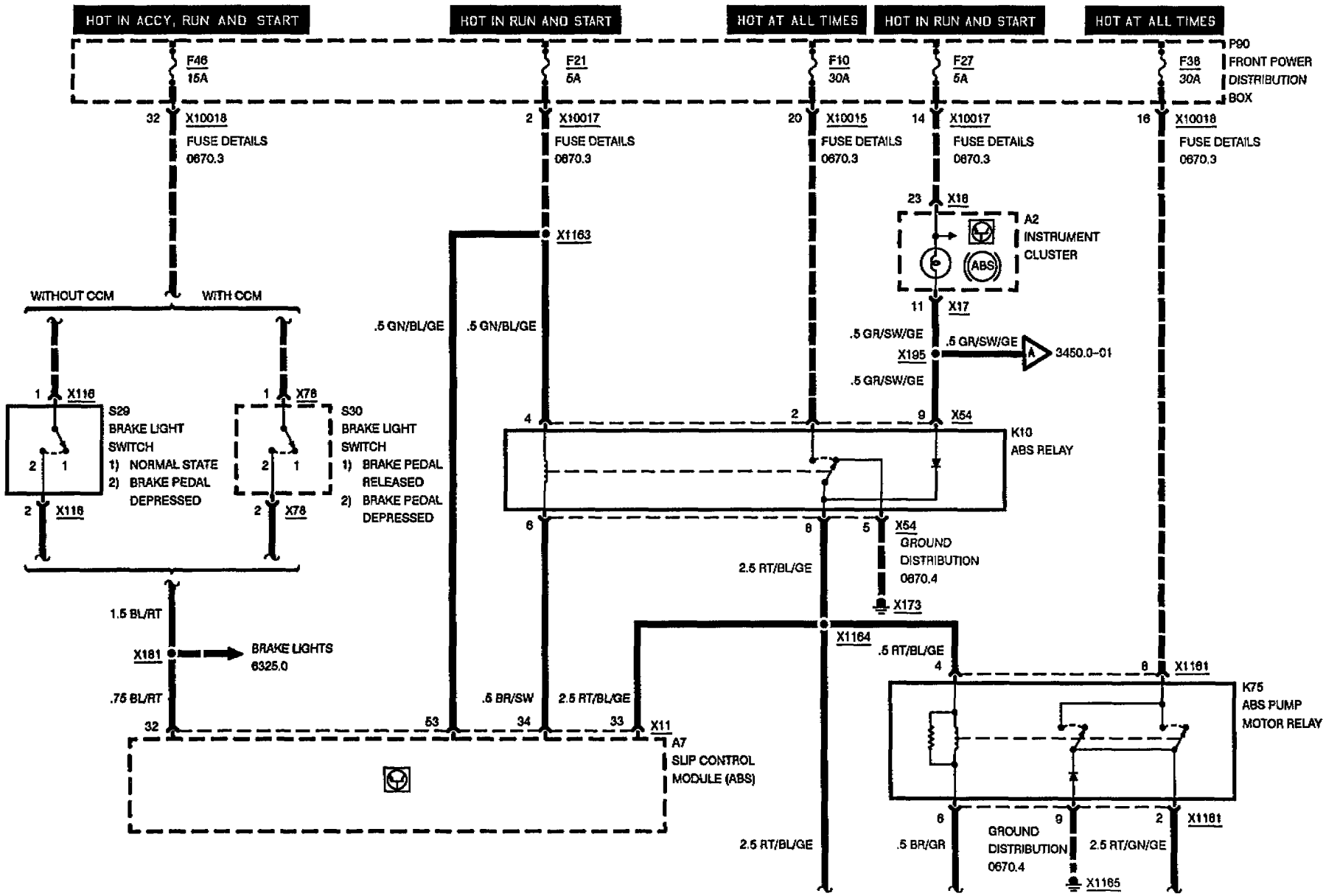


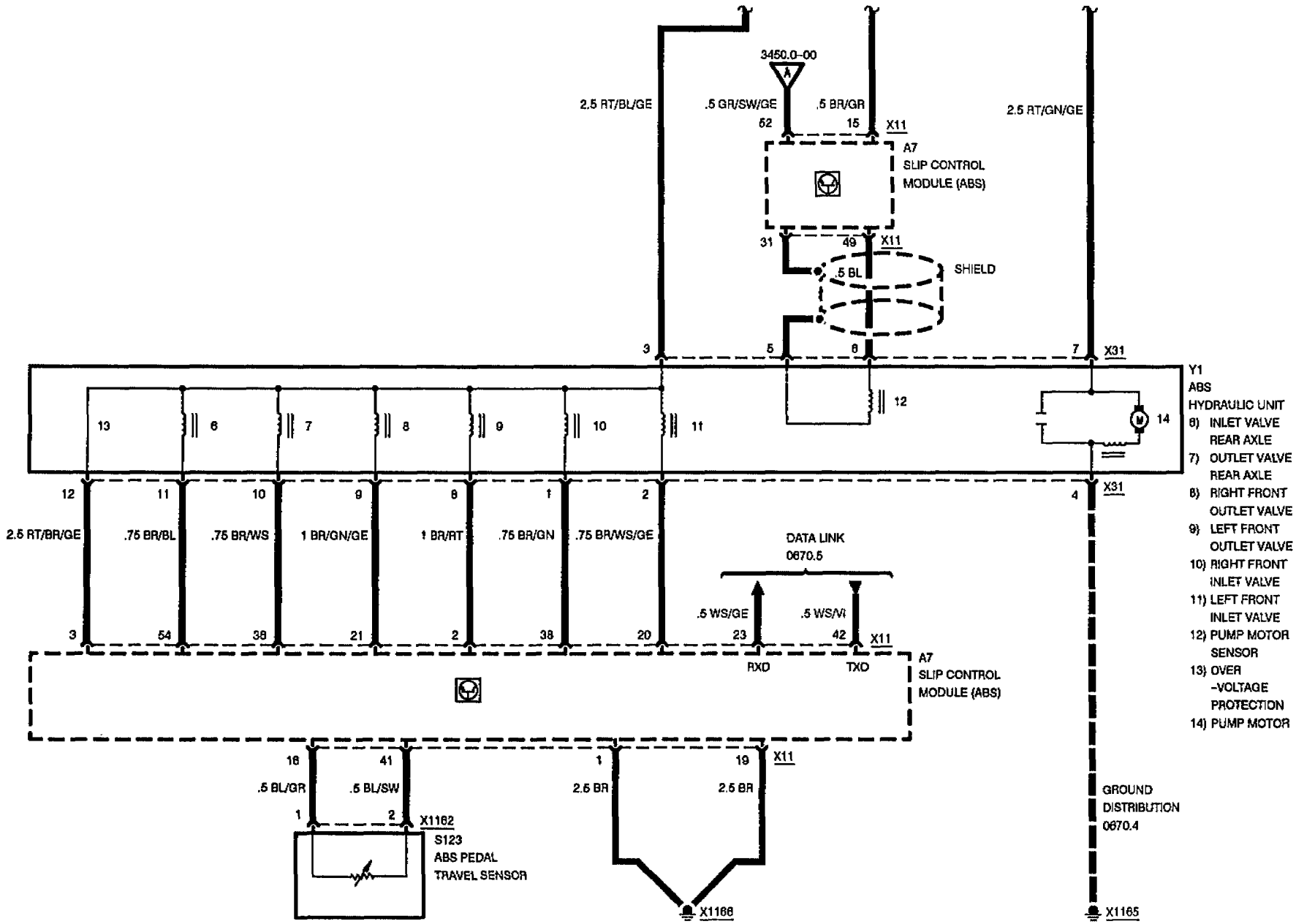
Pin Assignments

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

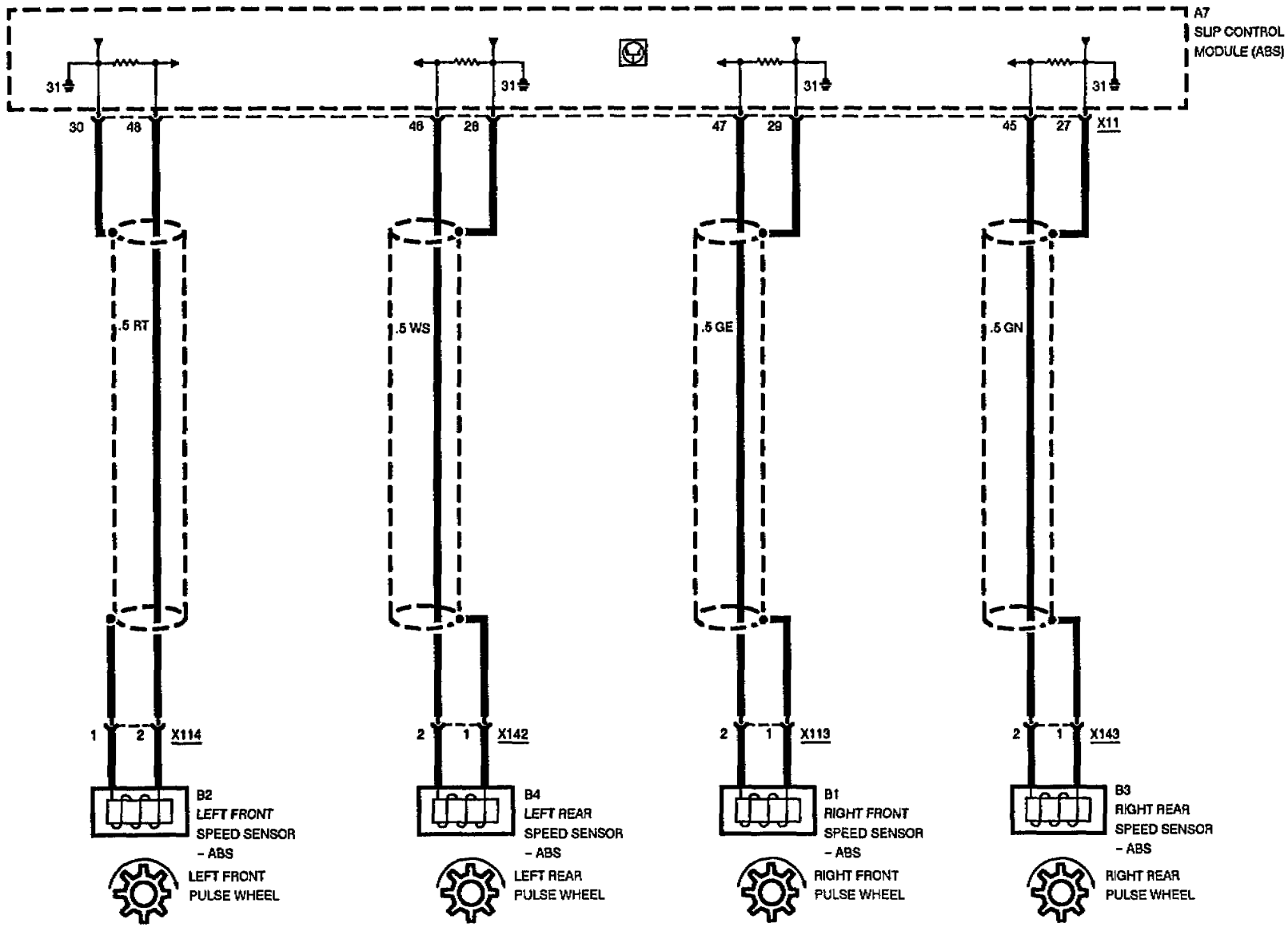
E = Input, A = Output, M = Ground

SLIP CONTROL (ABS)

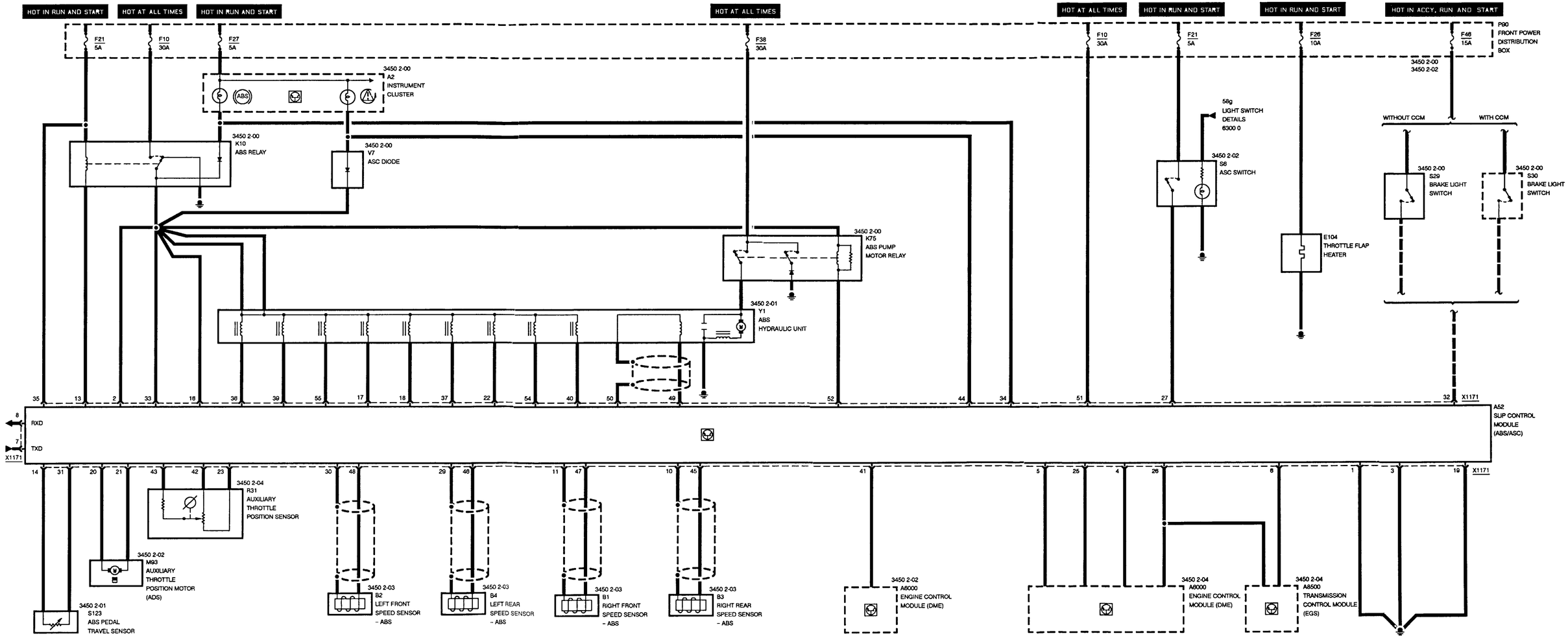


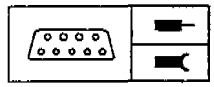

3450.0-00
2.5 RT/BL/GE
.5 GR/SW/GE
.5 BR/GR
2.5 RT/GN/GE
52
15
X11
A7
SLIP CONTROL
MODULE (ABS)
31
49
X11
.5 BL
SHIELD
3
5
6
7
X31
Y1
ABS
HYDRAULIC UNIT
6) INLET VALVE
REAR AXLE
7) OUTLET VALVE
REAR AXLE
8) RIGHT FRONT
OUTLET VALVE
9) LEFT FRONT
OUTLET VALVE
10) RIGHT FRONT
INLET VALVE
11) LEFT FRONT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

SLIP CONTROL (ABS)



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



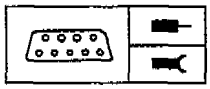


Pin Assignments

X1171

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

E = Input, A = Output, M = Ground



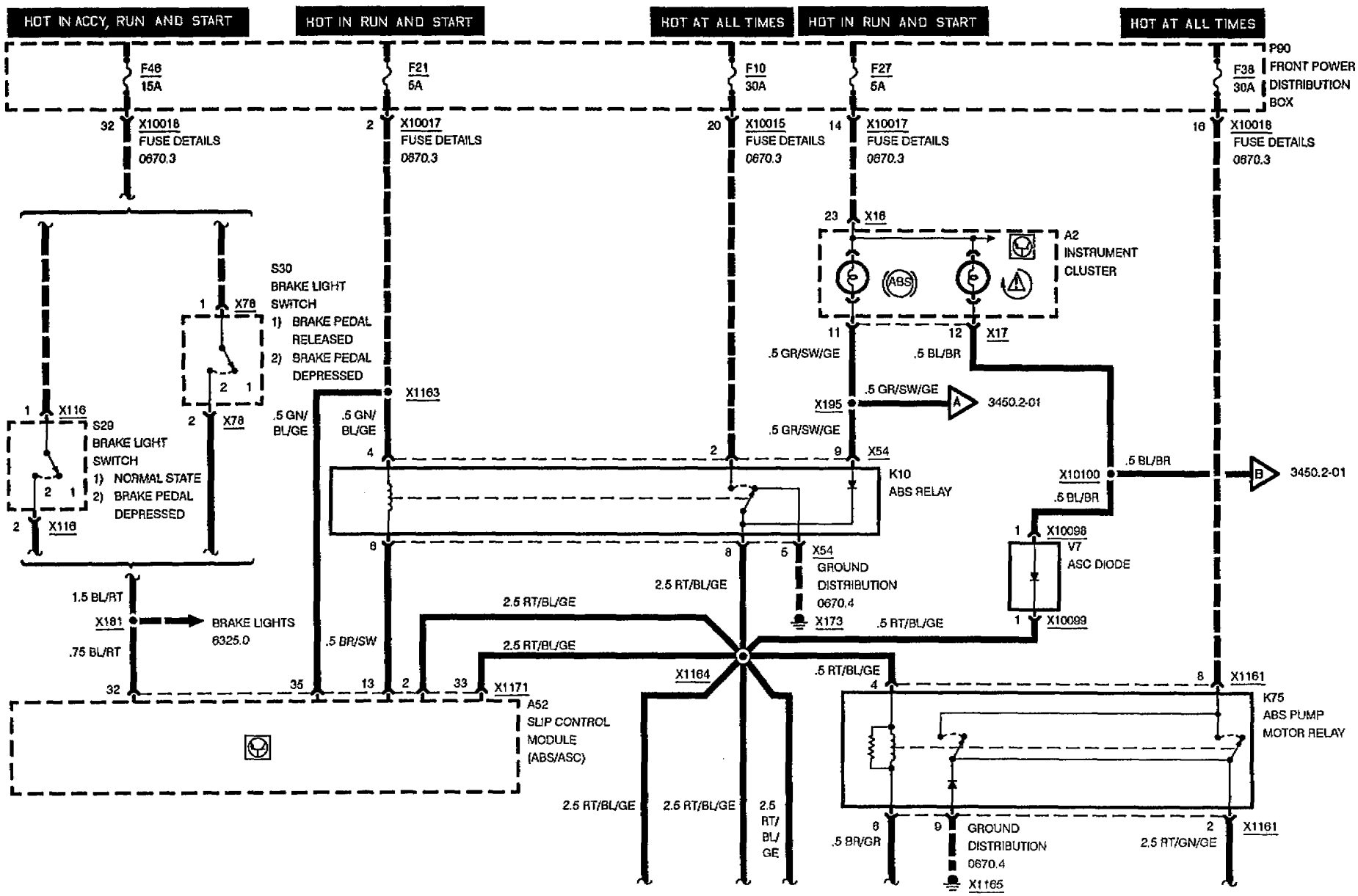
Pin Assignments

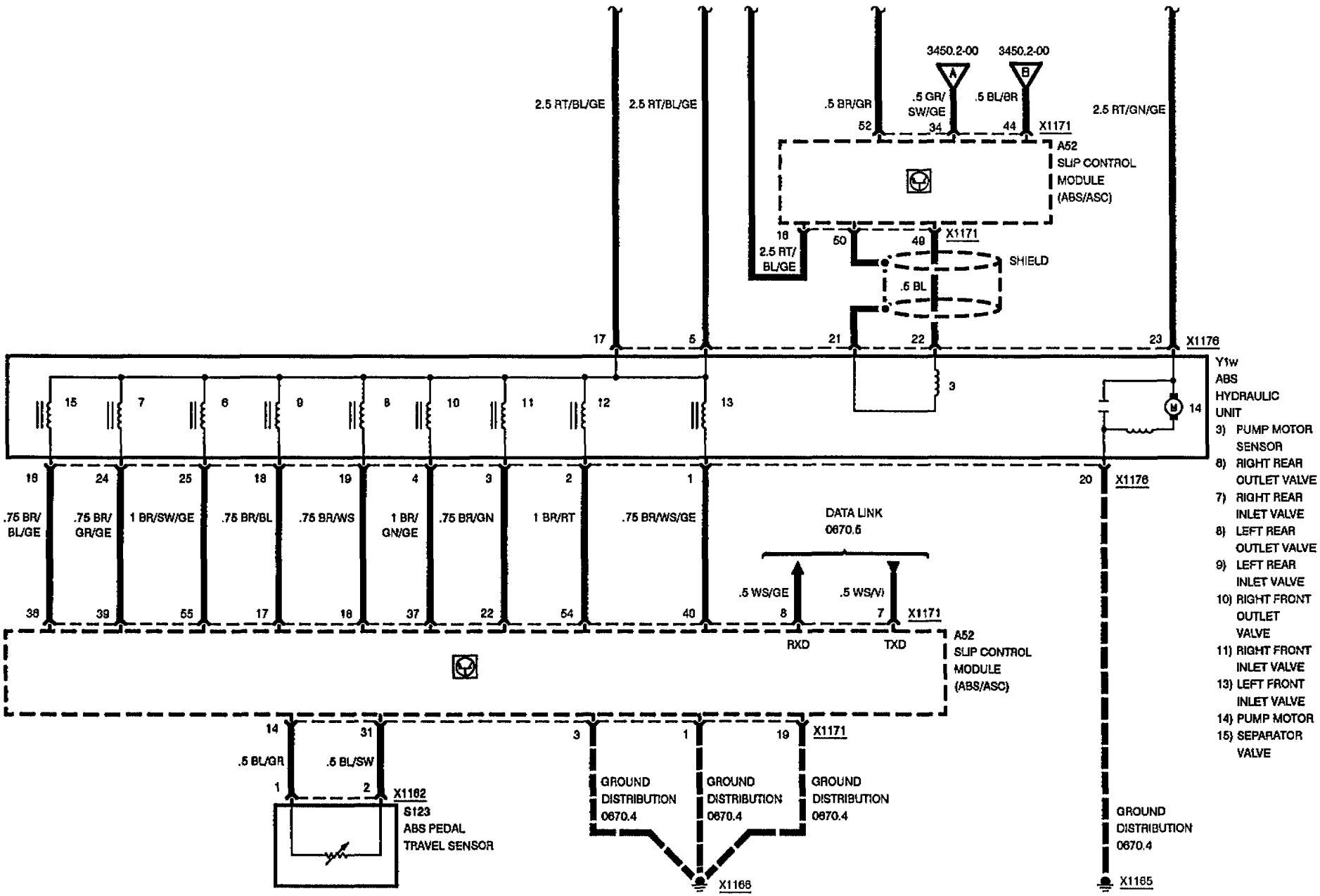
Pin	Type	Description/Function	Connection
31	A	Signal ABS-travel sensor	ABS-travel sensor
32	E	Brake signal	Brake light switch
33	E	Plus supply	ABS-protection relay
34	A	ABS-lamp control	Instrument cluster
35	E	Ignition signal	Ignition switch
36	A	Solenoid valve	ABS-hydraulic unit
37	A	Solenoid valve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

E = Input, A = Output, M = Ground

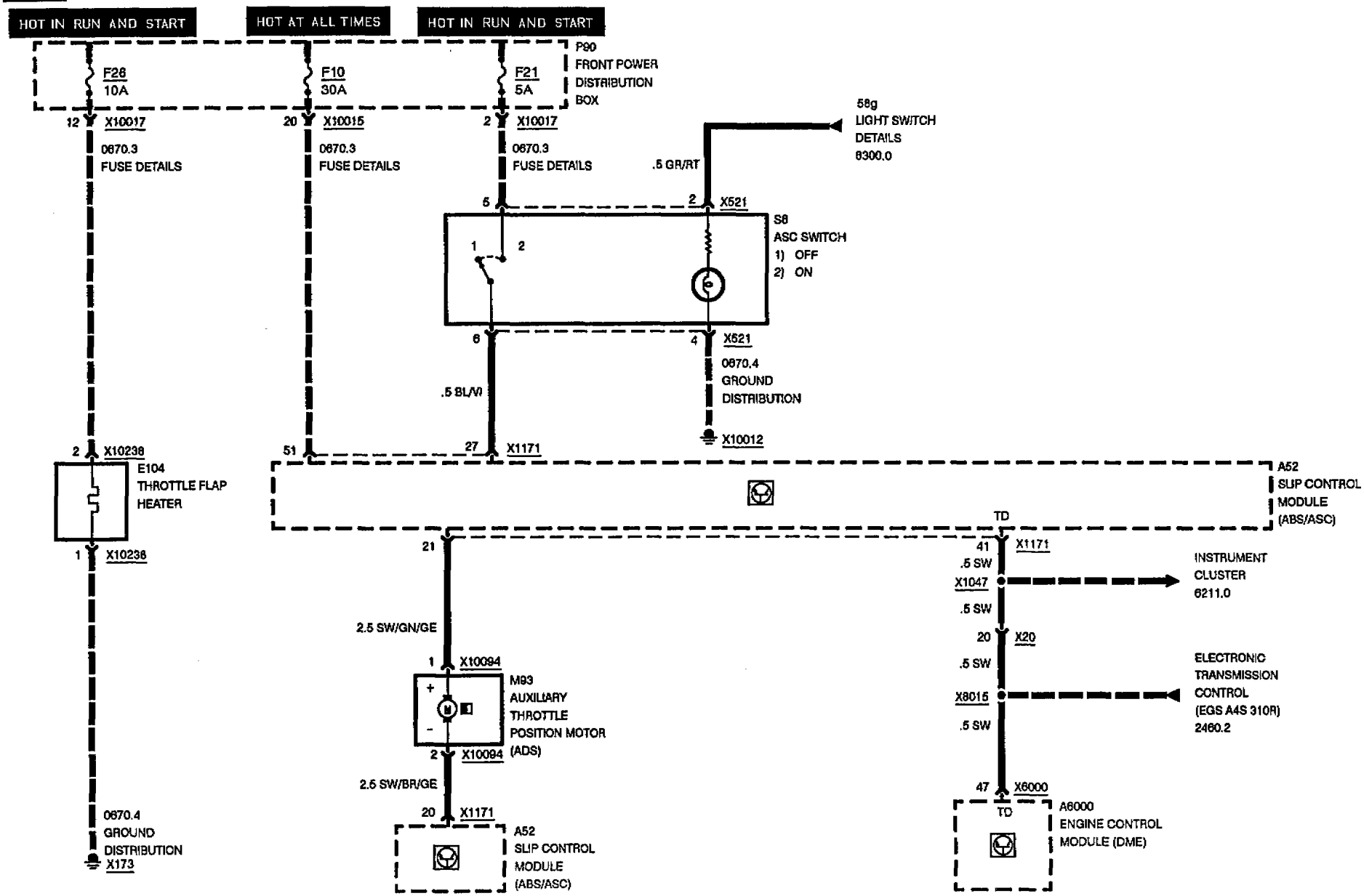
SLIP CONTROL (ABS/ASC+T)

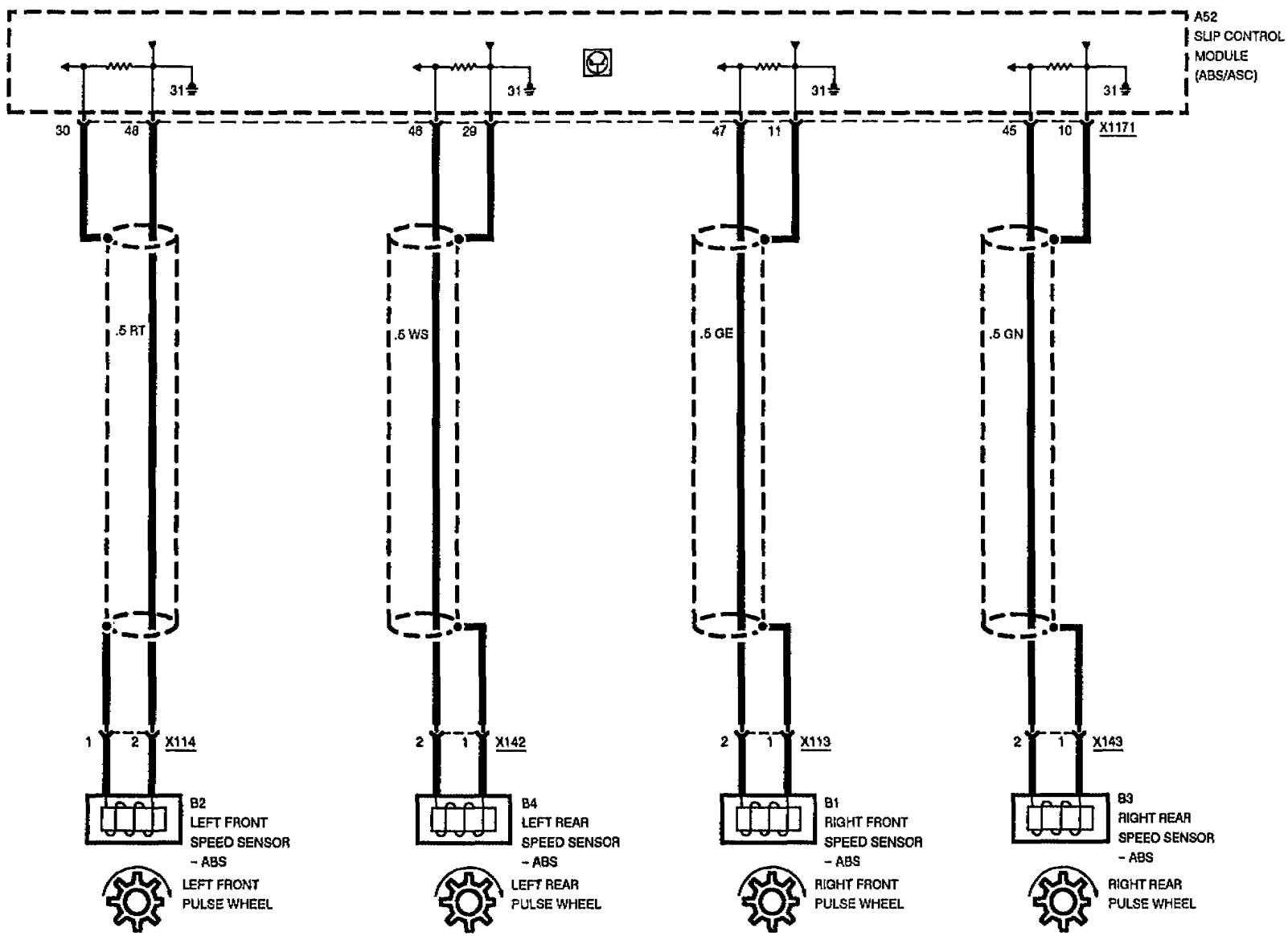
325i




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

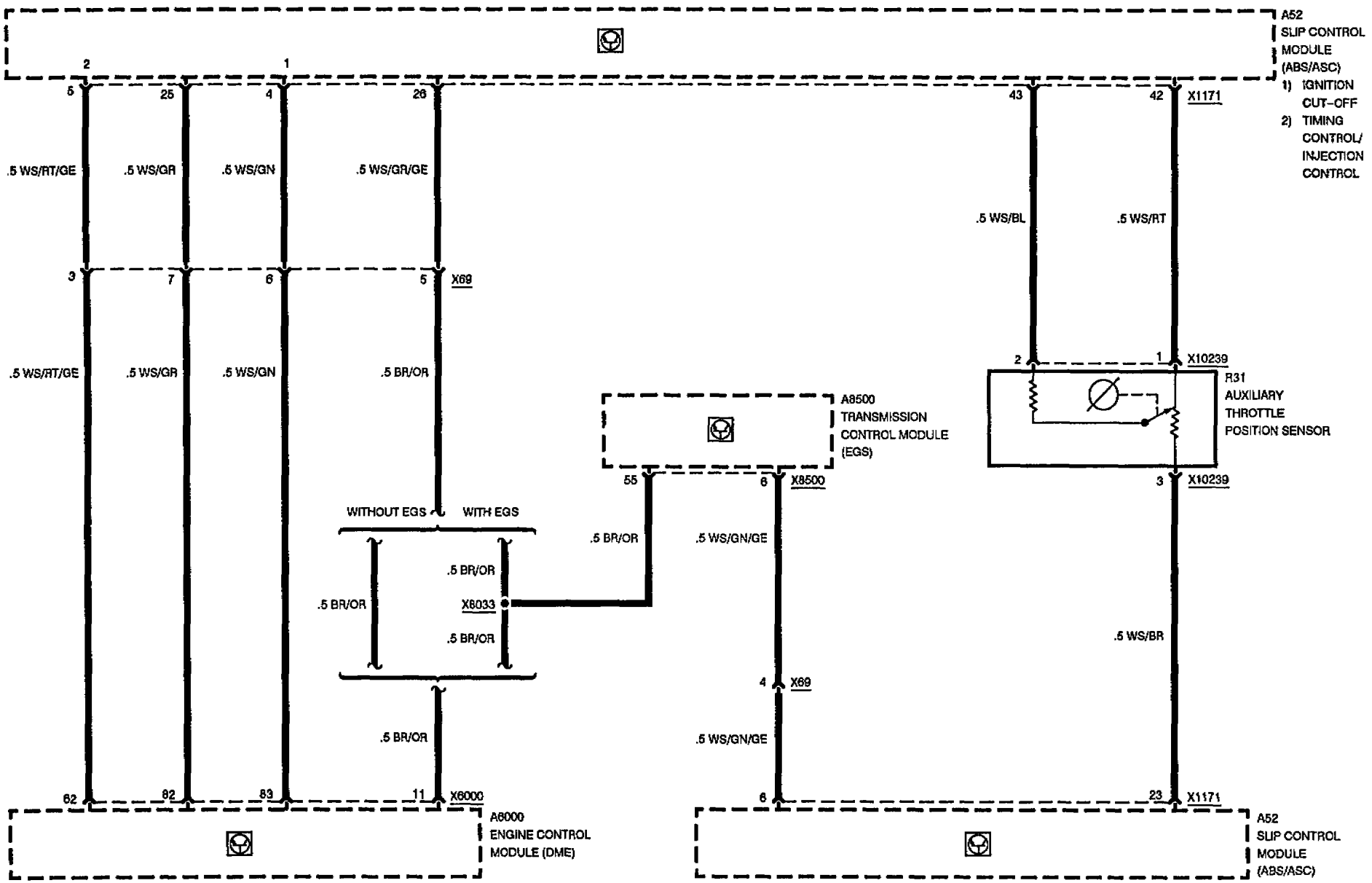
SLIP CONTROL (ABS/ASC+T)

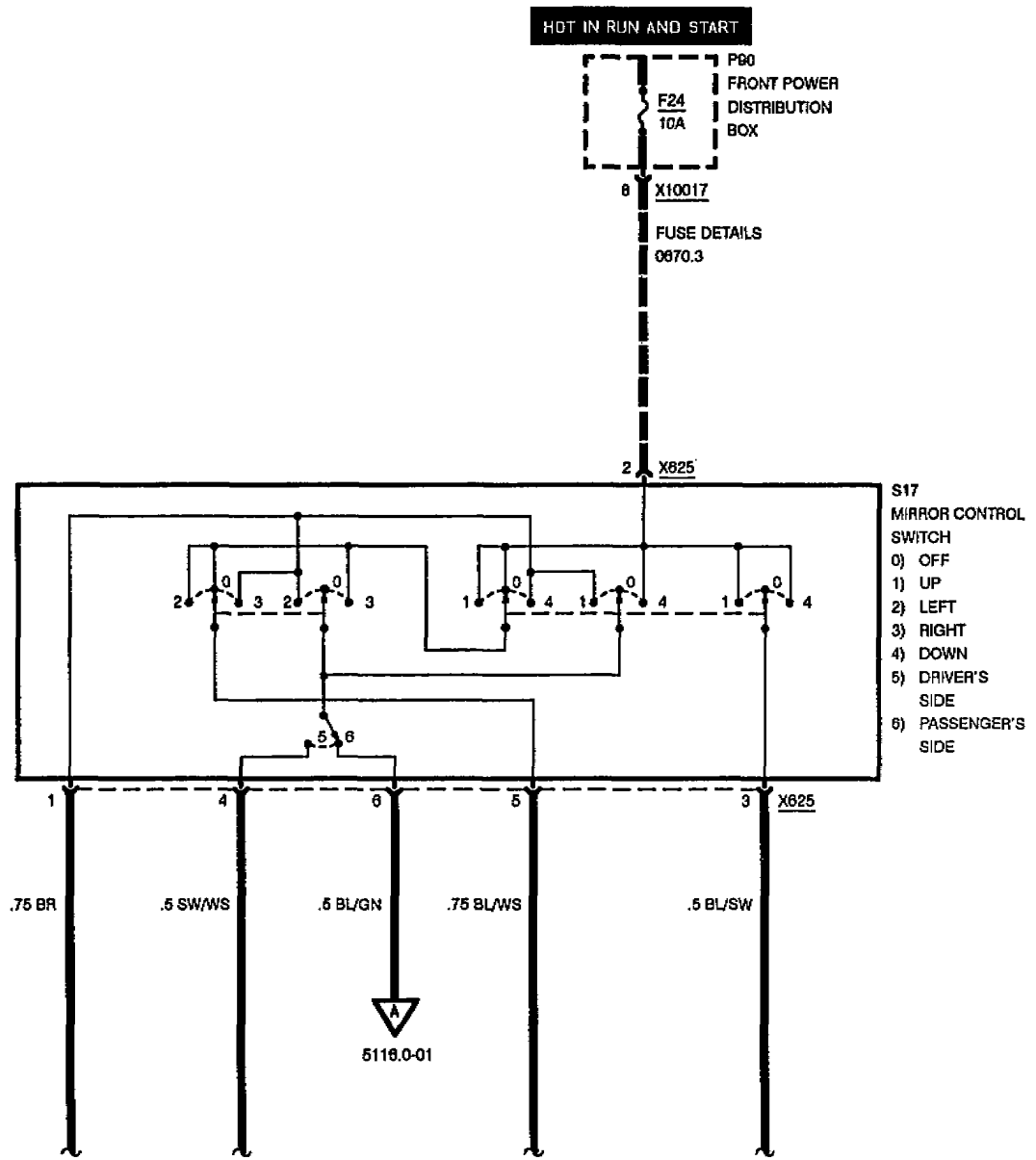


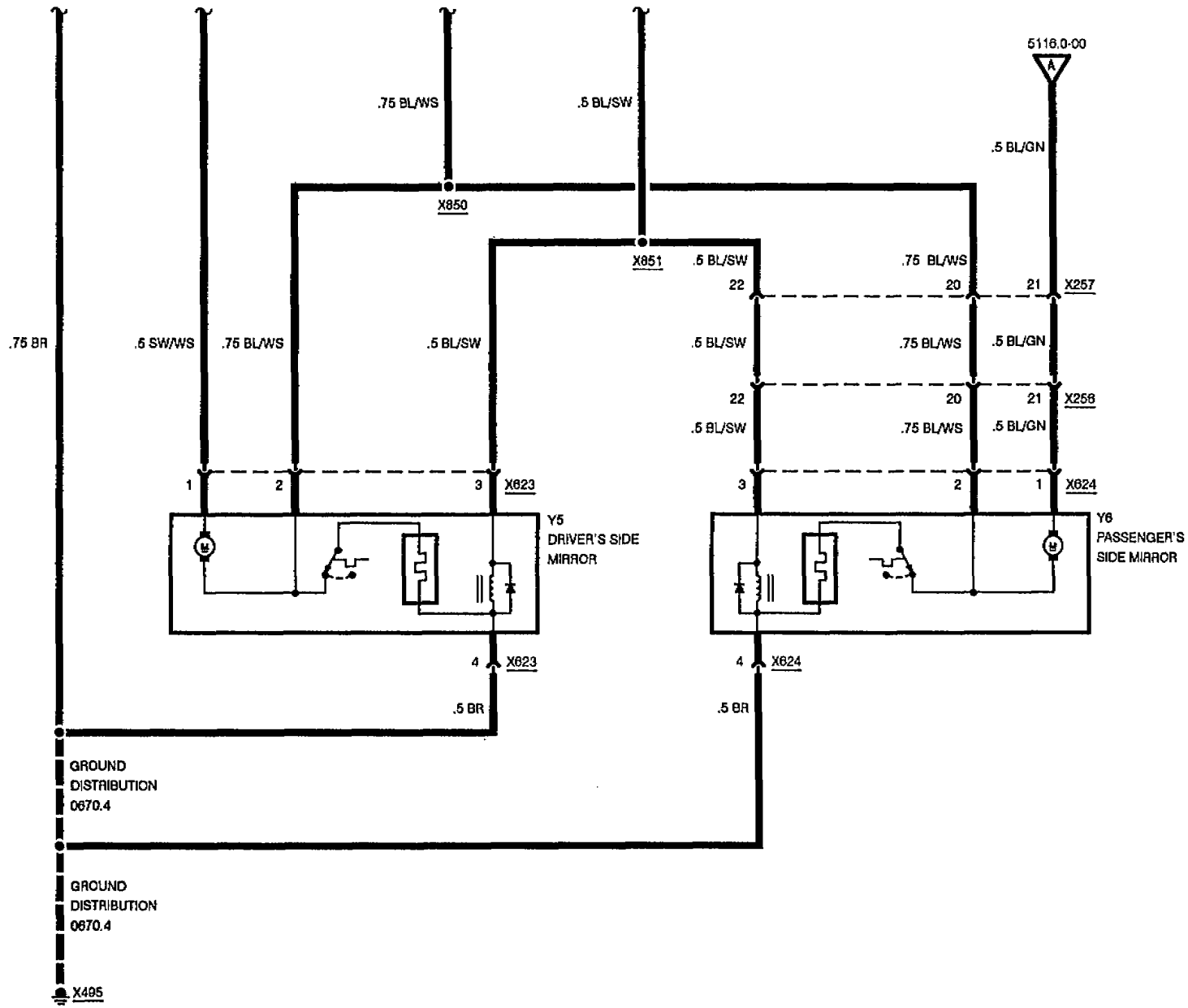

A52
SLIP CONTROL
MODULE
(ABS/ASC)
31
30
48
29
47
11
45
10
X1171
.5 RT
.5 WS
.5 GE
.5 GN
1
2
X114
X142
X113
X143
B2
LEFT FRONT
SPEED SENSOR
- ABS
B4
LEFT REAR
SPEED SENSOR
- ABS
B1
RIGHT FRONT
SPEED SENSOR
- ABS
B3
RIGHT REAR
SPEED SENSOR
- ABS
LEFT FRONT
PULSE WHEEL
LEFT REAR
PULSE WHEEL
RIGHT FRONT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

SLIP CONTROL (ABS/ASC+T)

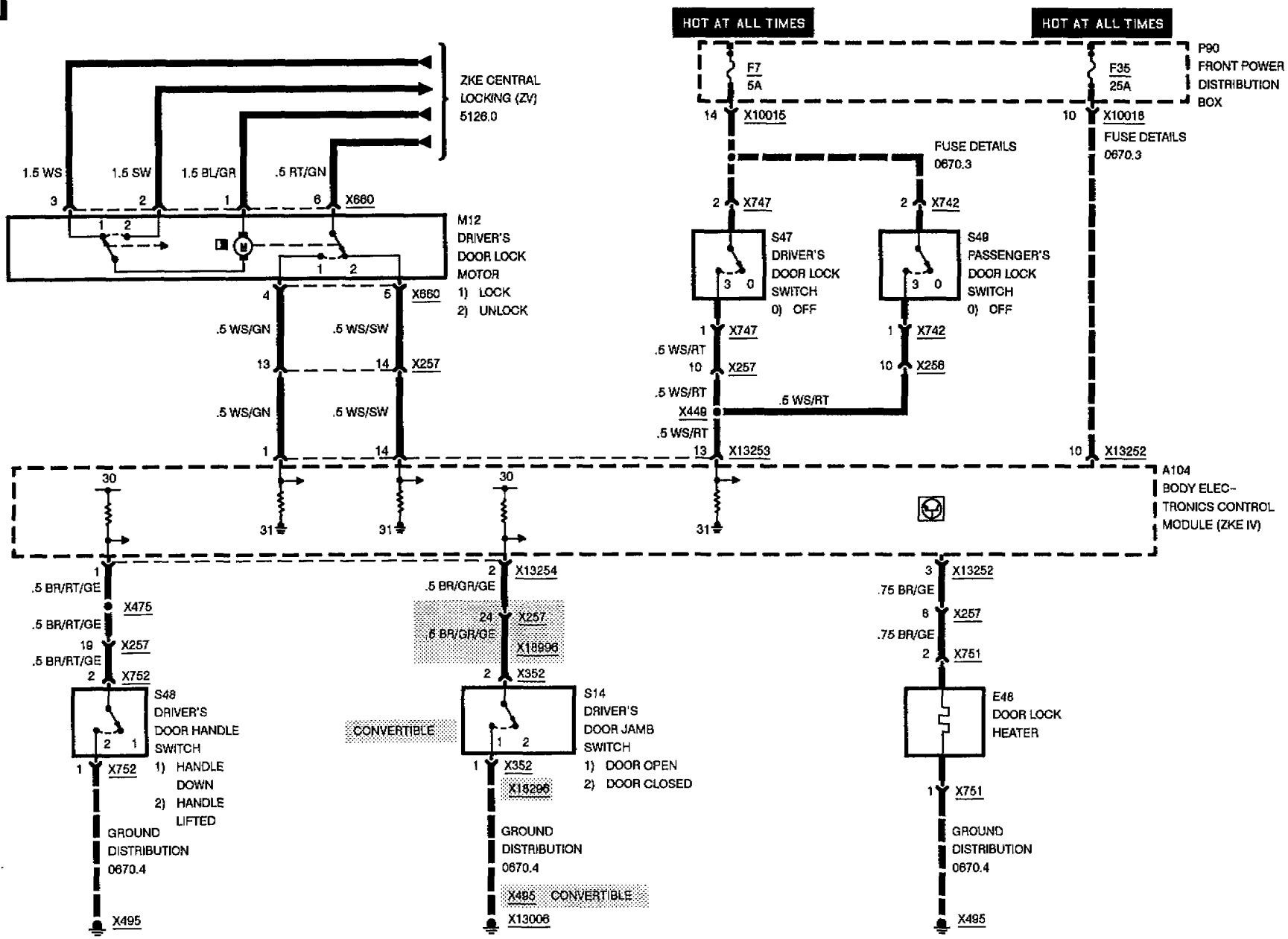
325i




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

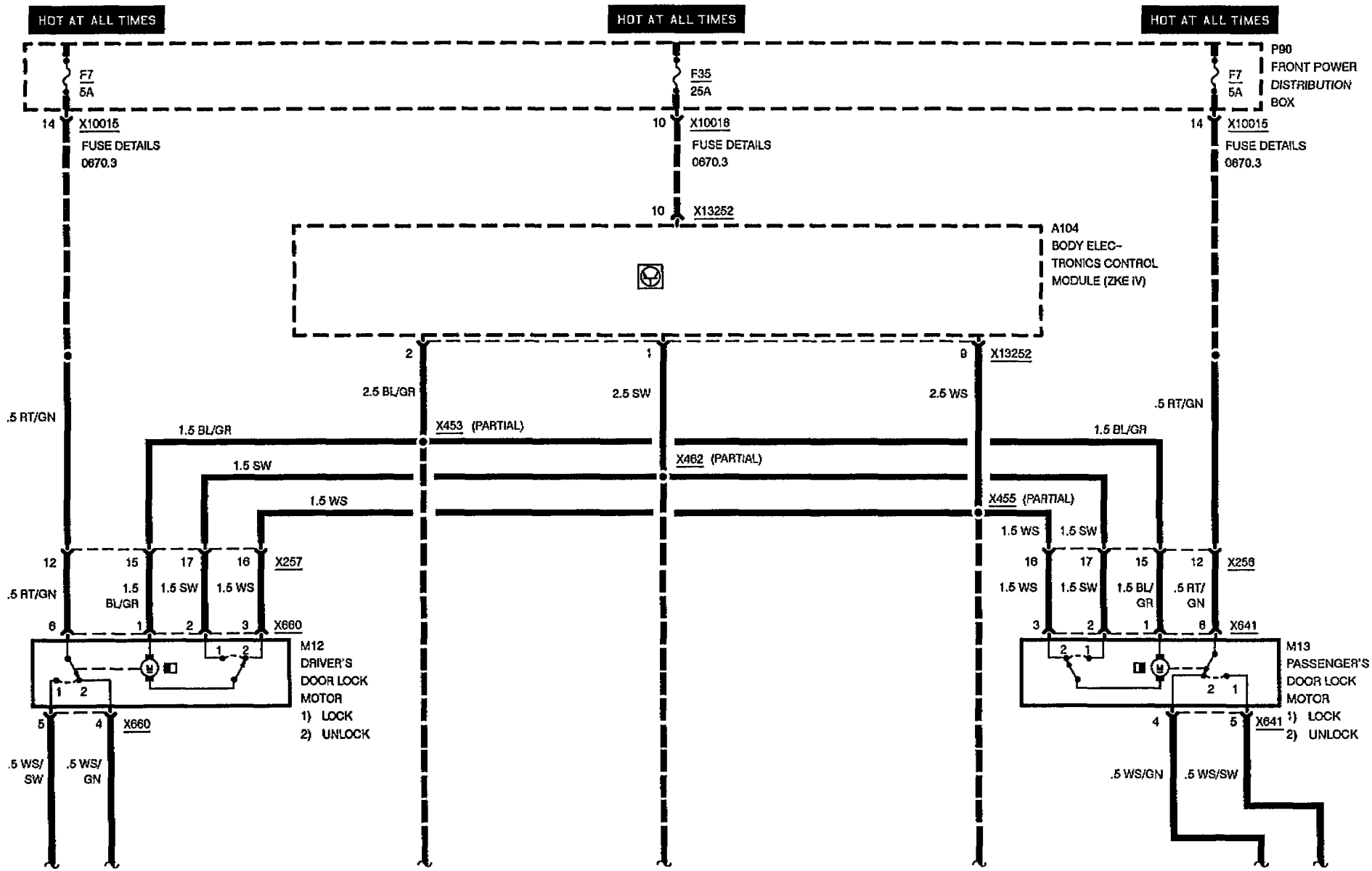

5116.0-00
.75 BL/WS
.5 BL/SW
.5 BL/GN
X850
X851
.5 BL/SW
.75 BL/WS
22
20
21
X257
.75 BR
.5 SW/WS
.75 BL/WS
.5 BL/SW
.5 BL/SW
.75 BL/WS
.5 BL/GN
22
20
21
X256
.5 BL/SW
.75 BL/WS
.5 BL/GN
1
2
3
X623
3
2
1
X624
Y5
DRIVER'S SIDE
MIRROR
Y6
PASSENGER'S
SIDE MIRROR
4
X623
4
X624
.5 BR
.5 BR
GROUND
DISTRIBUTION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

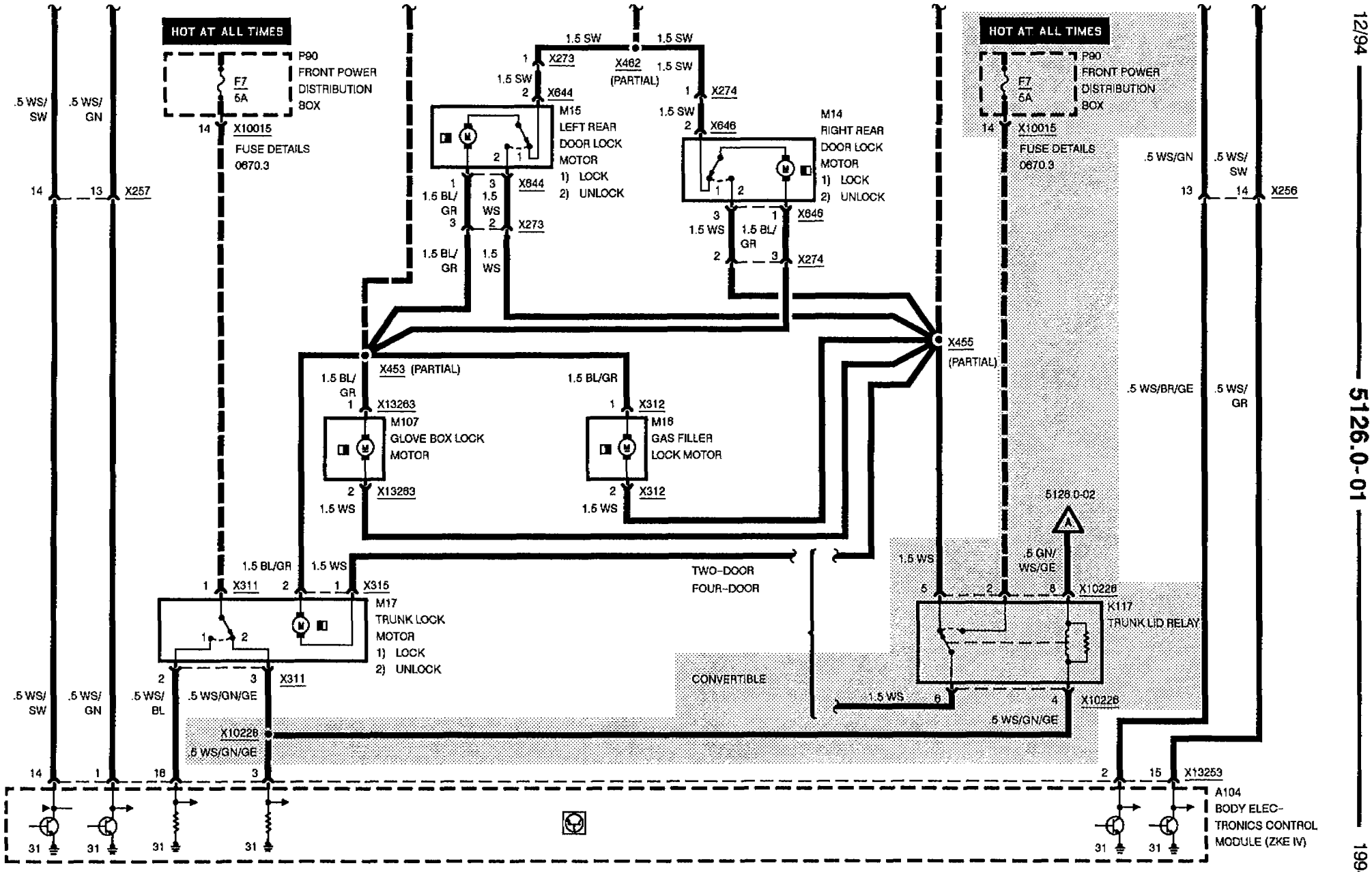
ZKE DOOR LOCK HEATING (TSH)



ZKE CENTRAL LOCKING (ZV)

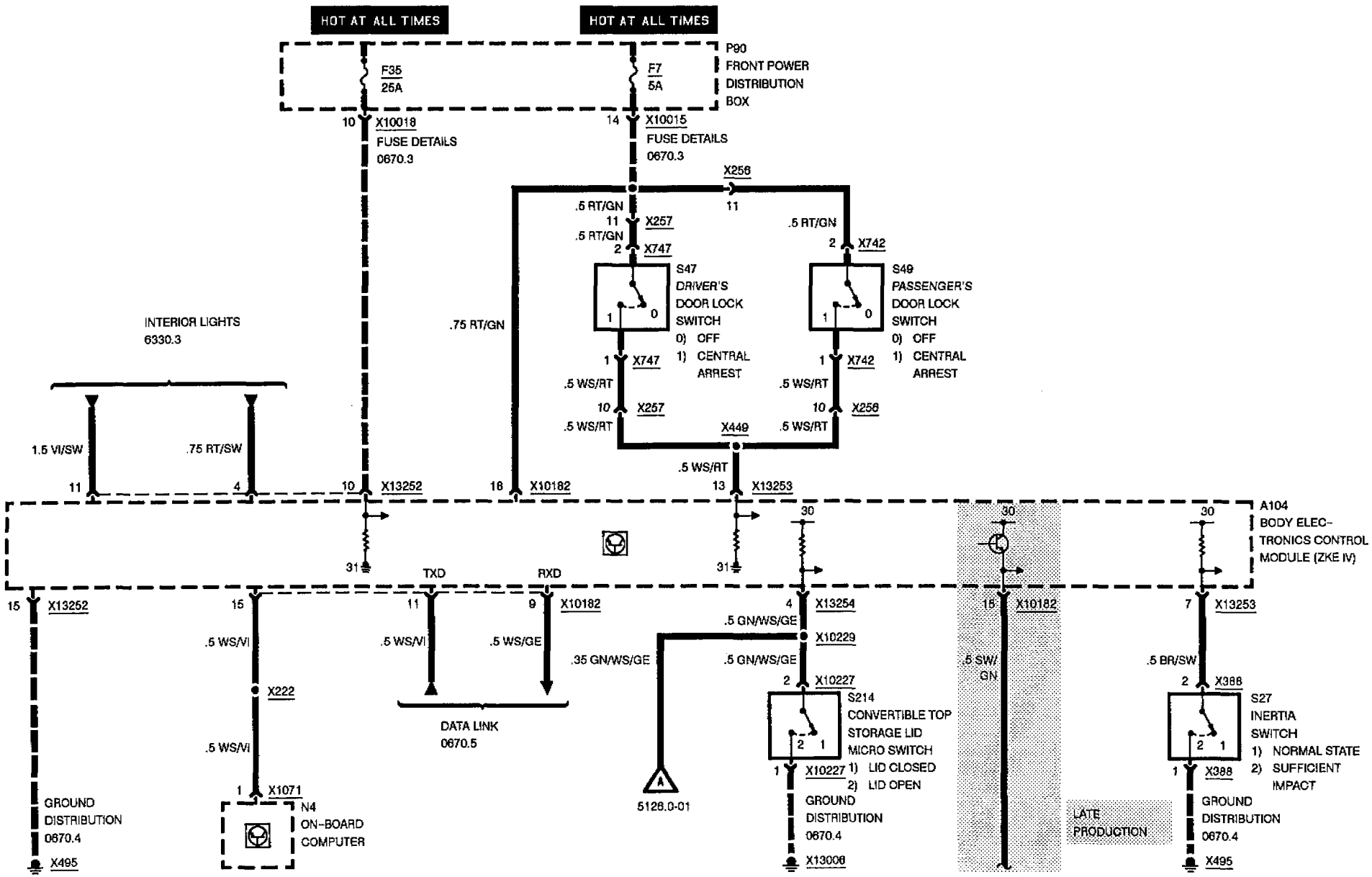
OUTPUT DETAILS

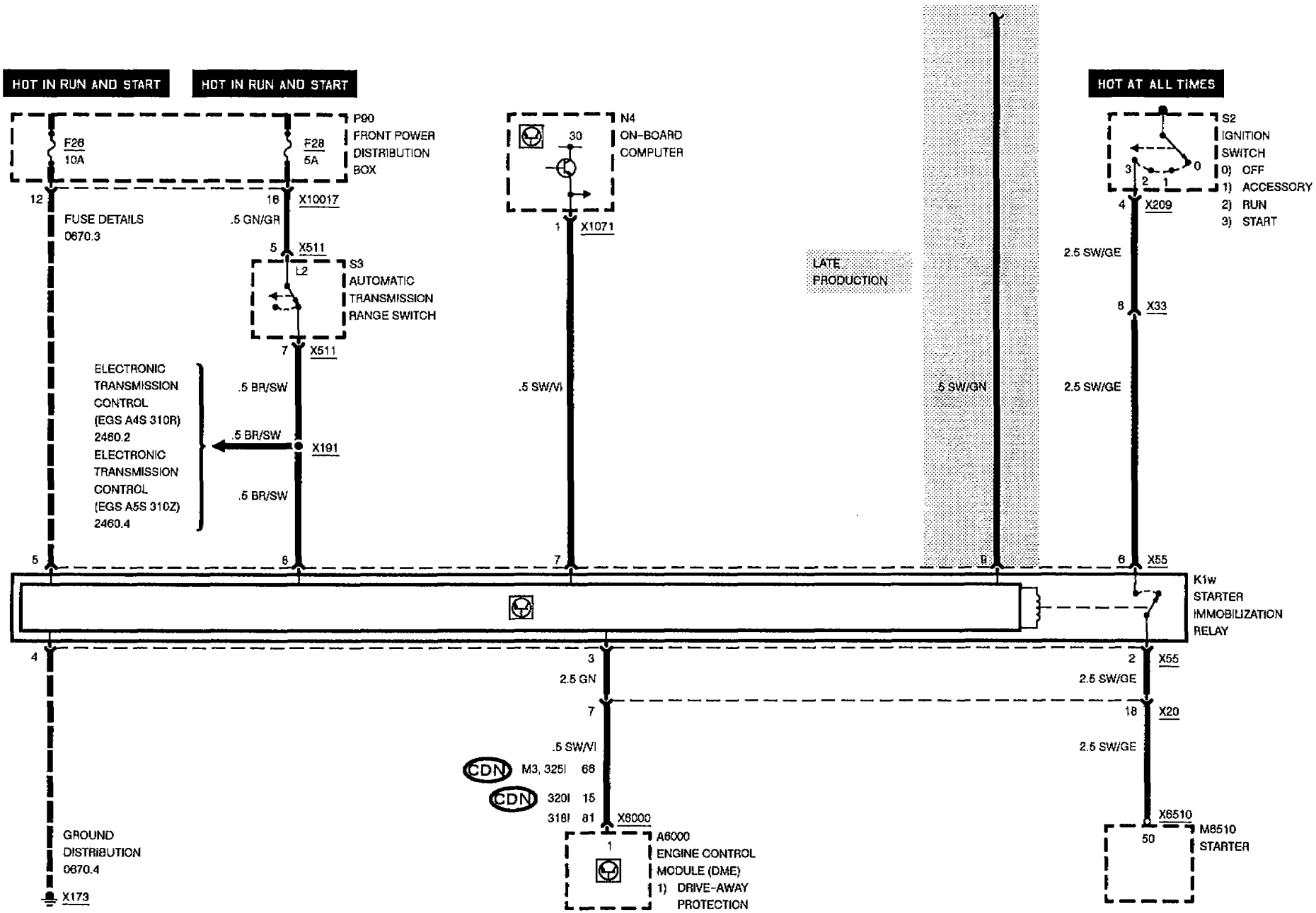



HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F7
5A
X10015
FUSE DETAILS
0670.3
HOT AT ALL TIMES
P90
FRONT POWER DISTRIBUTION BOX
F7
5A
X10015
FUSE DETAILS
0670.3
.5 WS/SW
.5 WS/GN
.5 WS/BL
.5 WS/GN/GE
.5 WS/BR/GE
.5 WS/GR
1.5 SW
1.5 BL/GR
1.5 WS
.5 GN/WS/GE
X257
X256
X273
X462 (PARTIAL)
X274
X644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

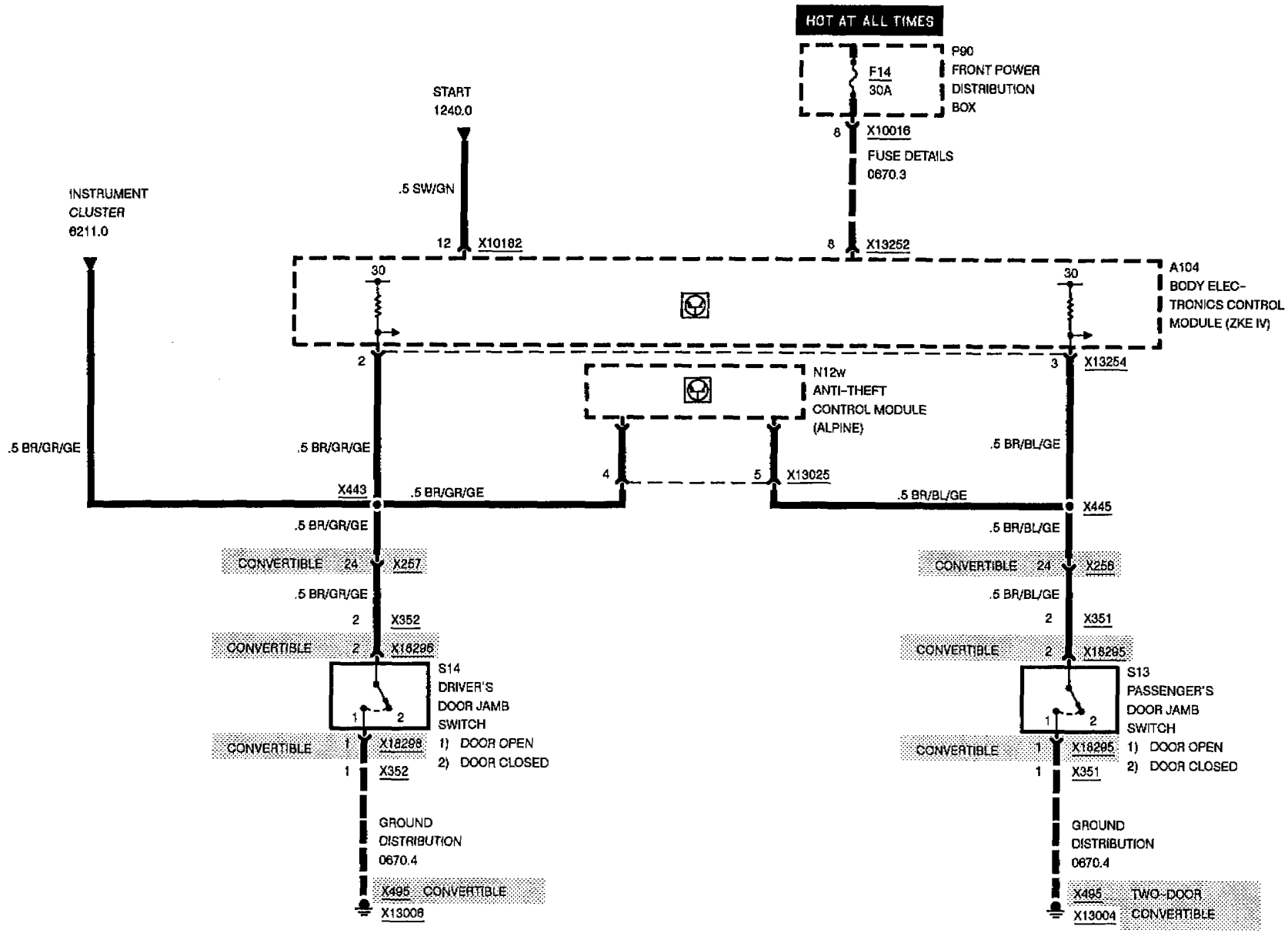
ZKE CENTRAL LOCKING (ZV)

EARLY PRODUCTION



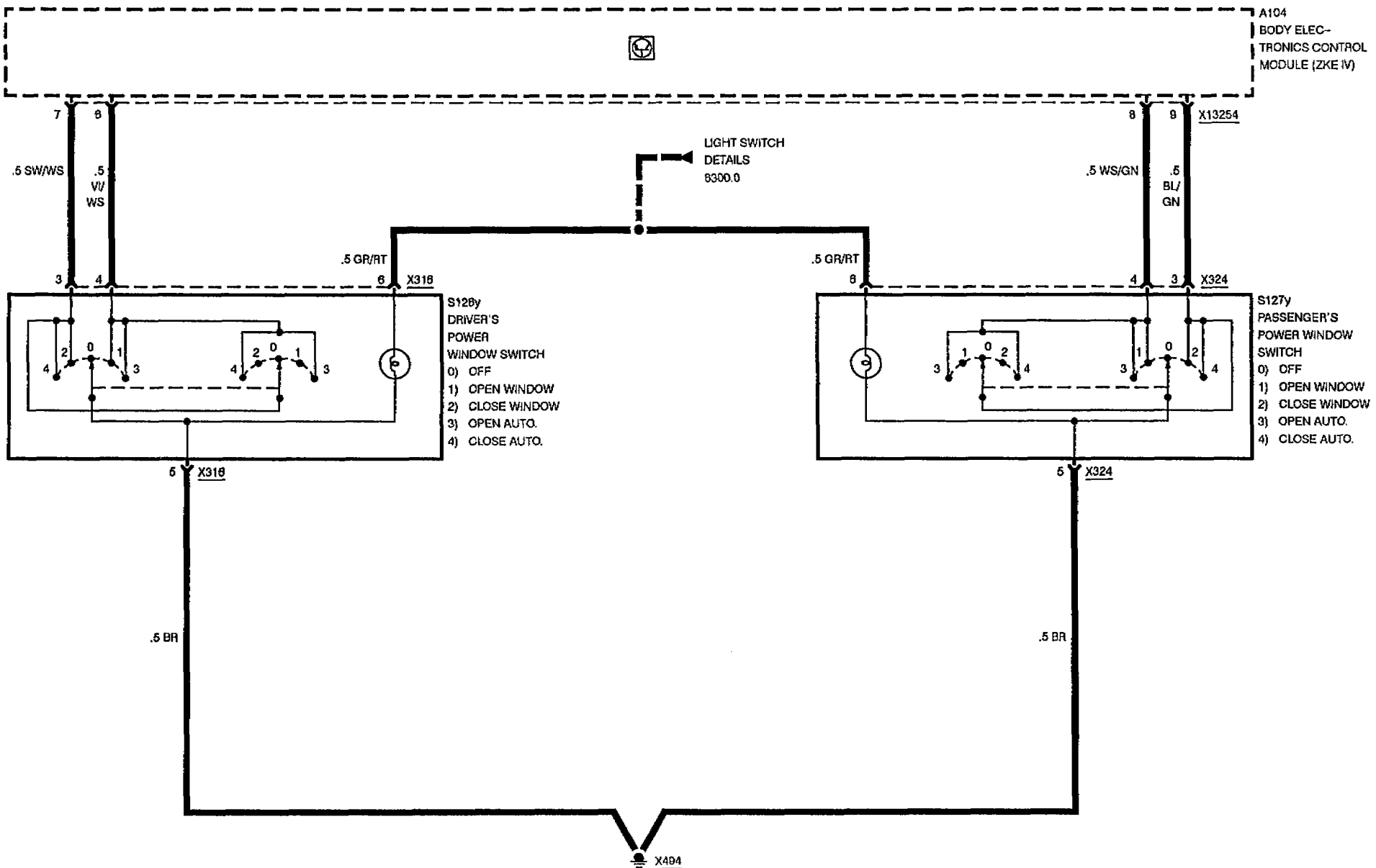

HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F26
10A
F28
5A
FUSE DETAILS
0670.3
X10017
.5 GN/GR
X511
S3
AUTOMATIC
TRANSMISSION
RANGE SWITCH
L2
X511
ELECTRONIC
TRANSMISSION
CONTROL
(EGS A4S 310R)
2460.2
ELECTRONIC
TRANSMISSION
CONTROL
(EGS A5S 310Z)
2460.4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

POWER WINDOWS (FH)
INPUT DETAILS



POWER WINDOWS (FH)

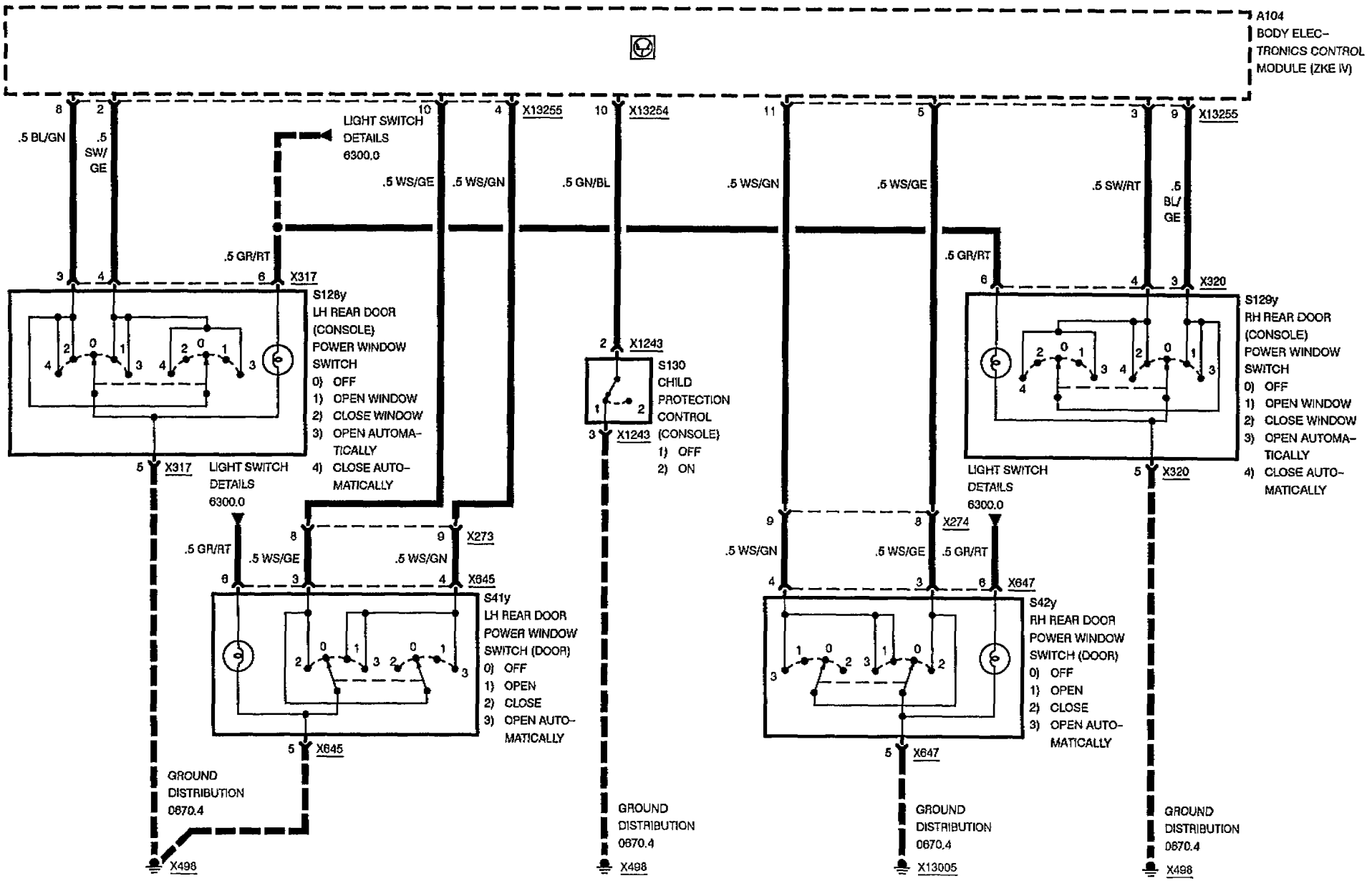
INPUT DETAILS



POWER WINDOWS (FH)

INPUT DETAILS

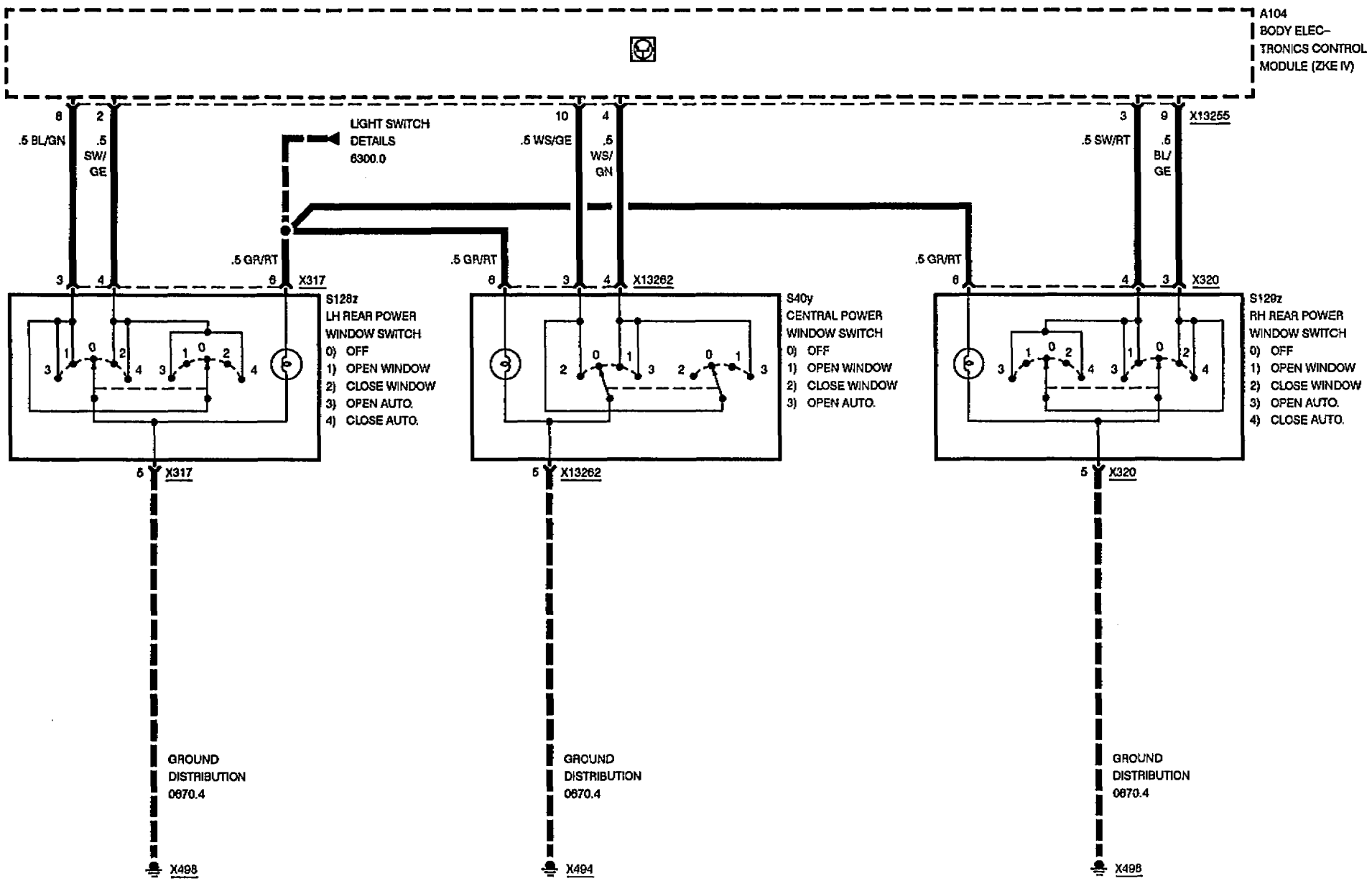
FOUR-DOOR



POWER WINDOWS (FH)

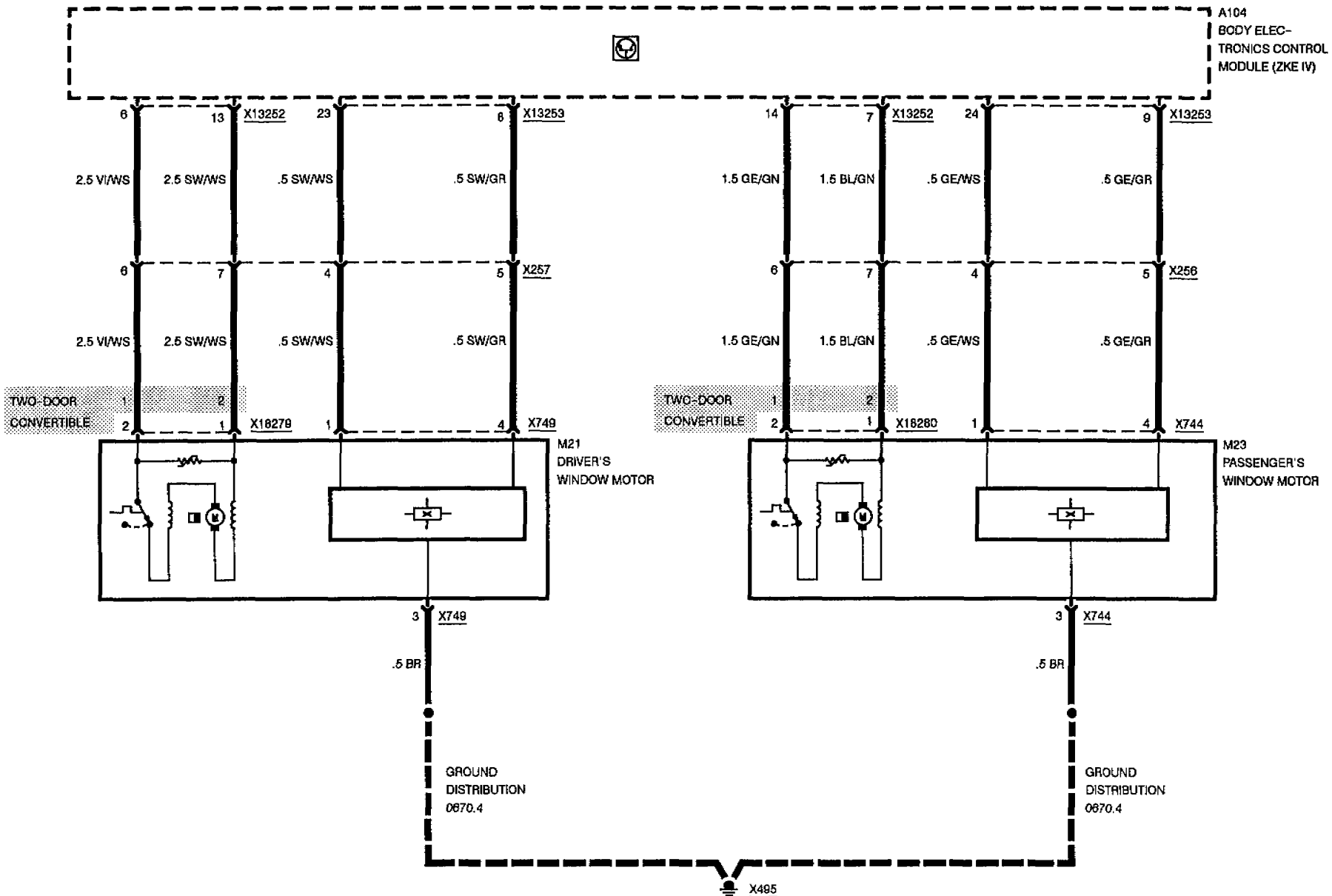
CONVERTIBLE

INPUT DETAILS



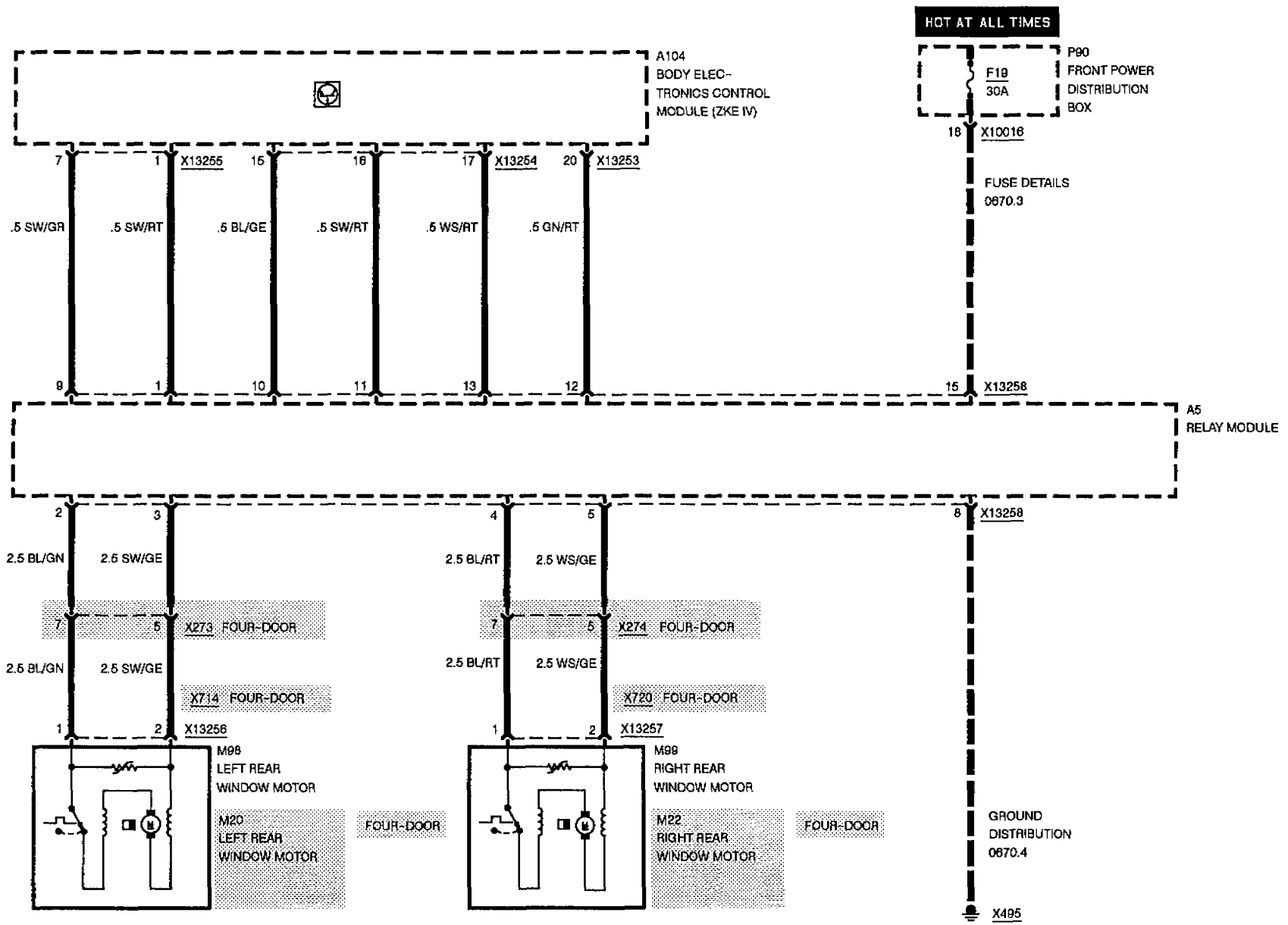
POWER WINDOWS (FH)

OUTPUT DETAILS



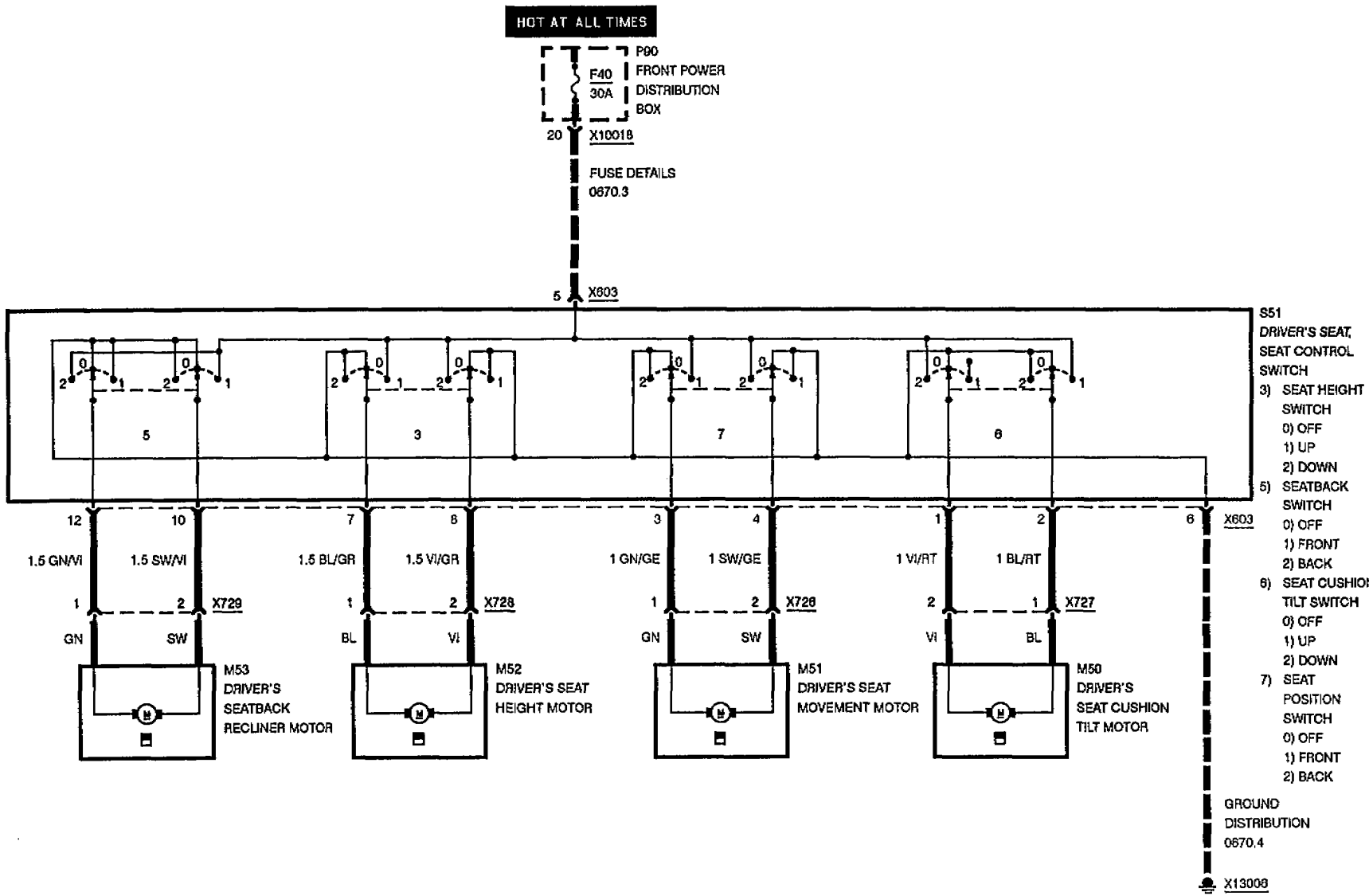
POWER WINDOWS (FH)

OUTPUT DETAILS



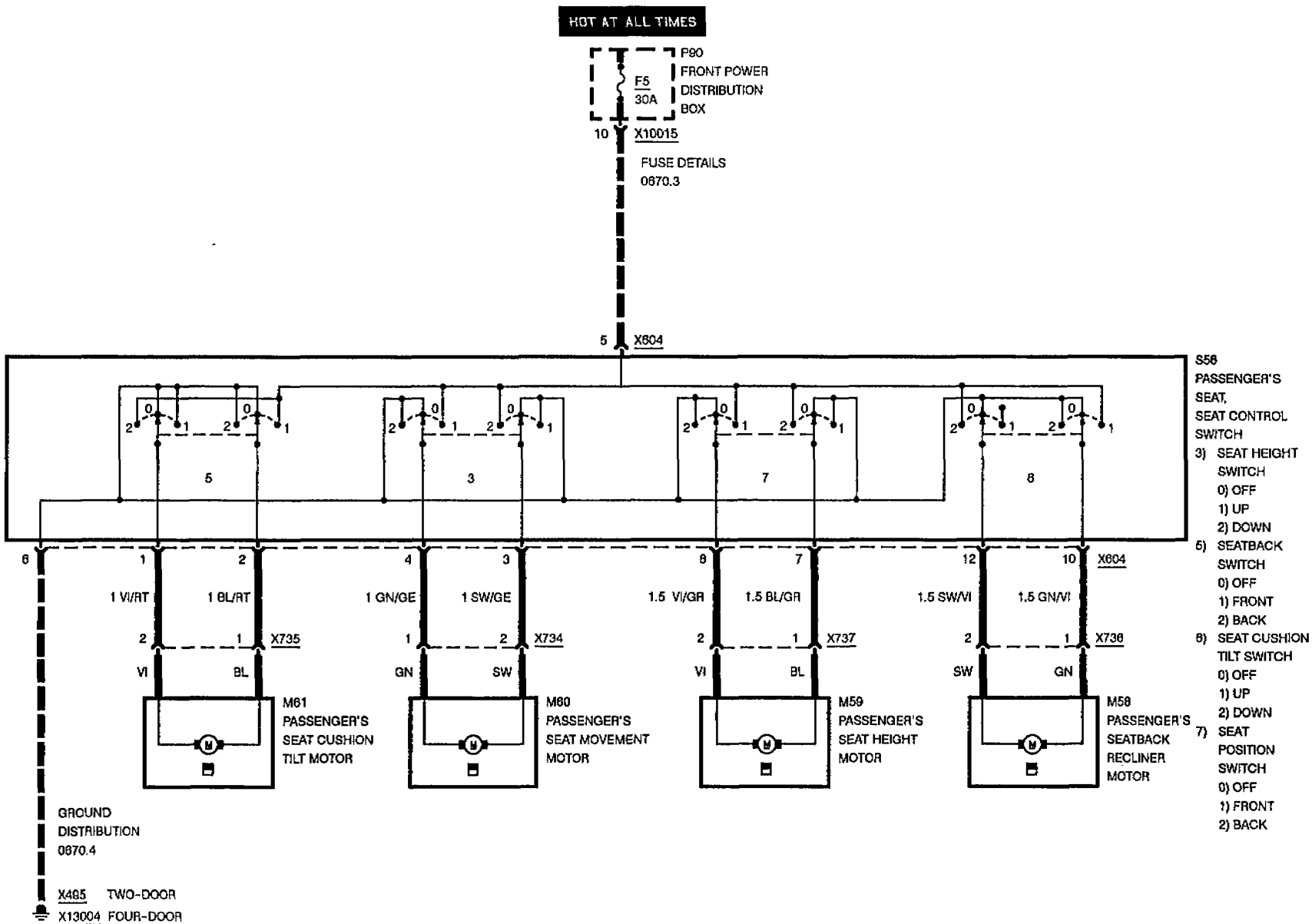
POWER SEATS

DRIVER'S SEAT

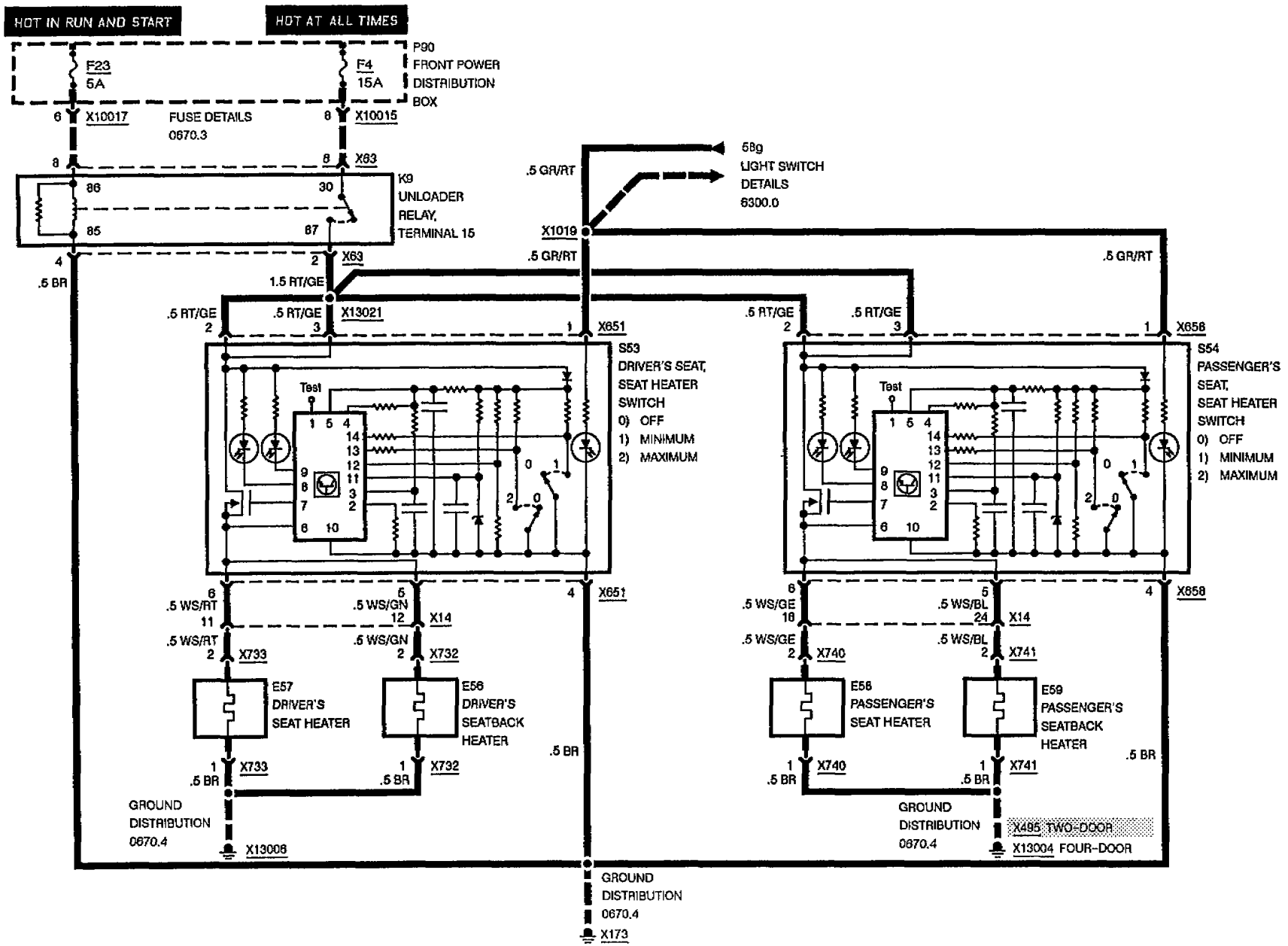


POWER SEATS

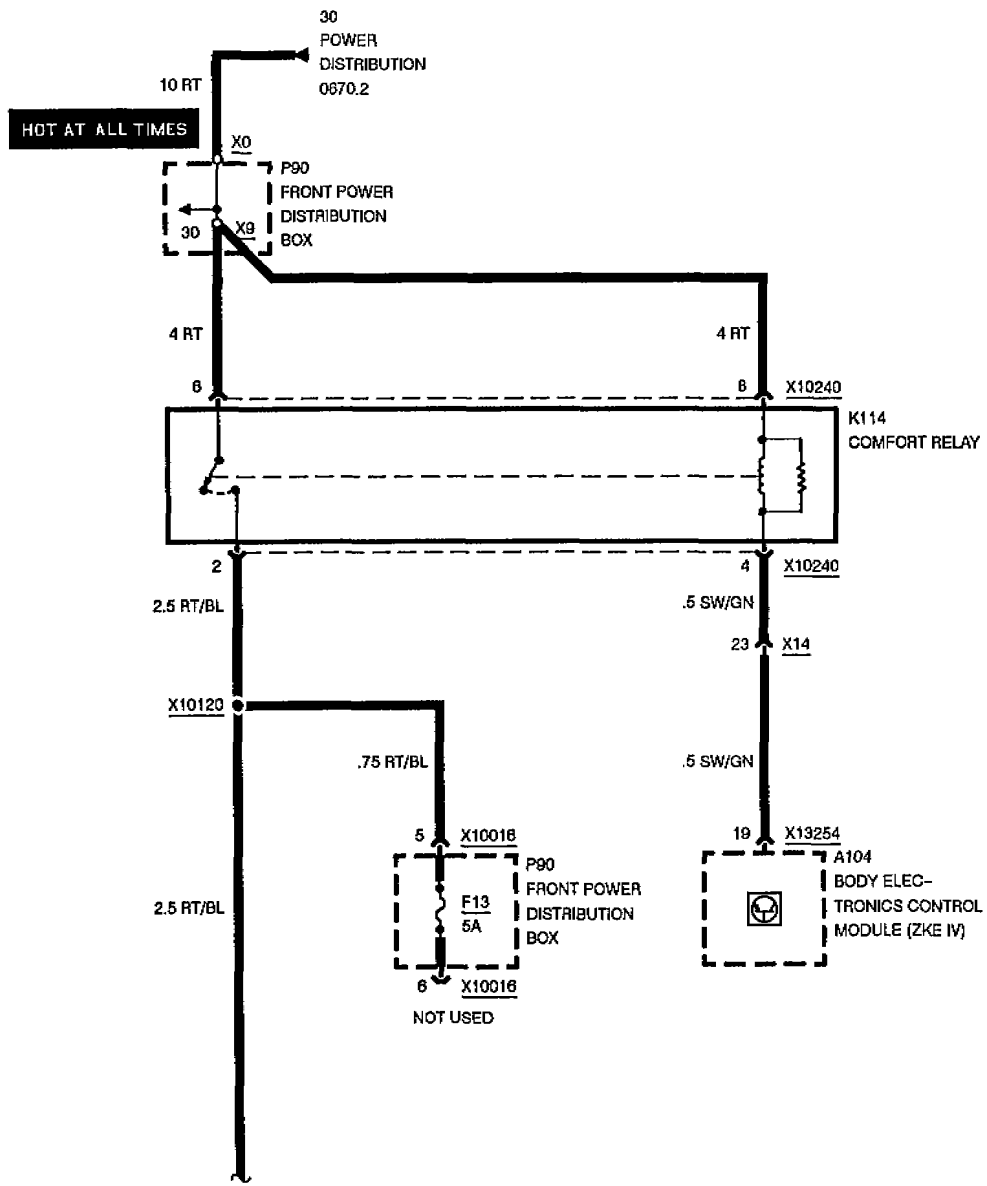
PASSENGER'S SEAT

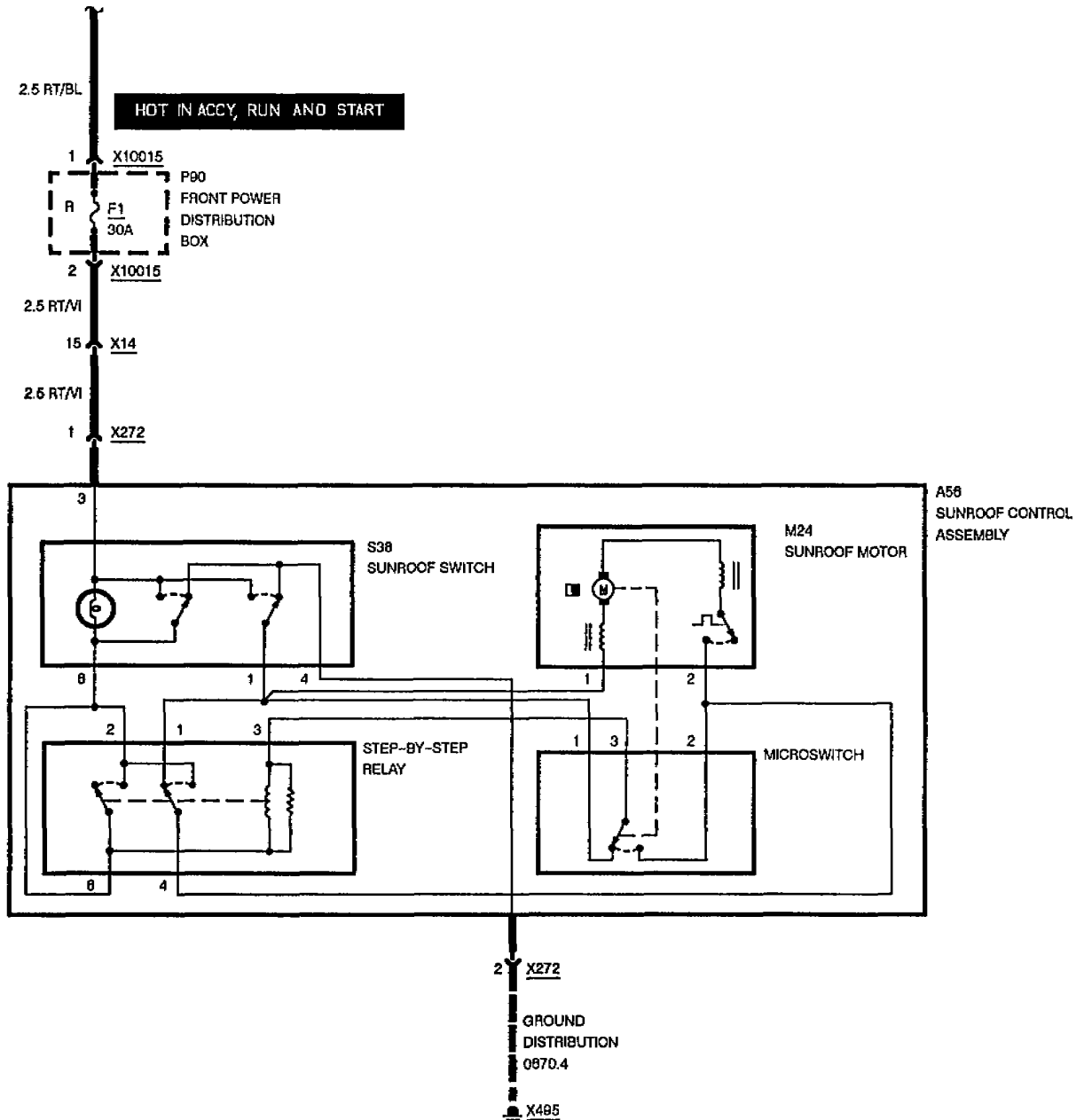


HEATED SEATS

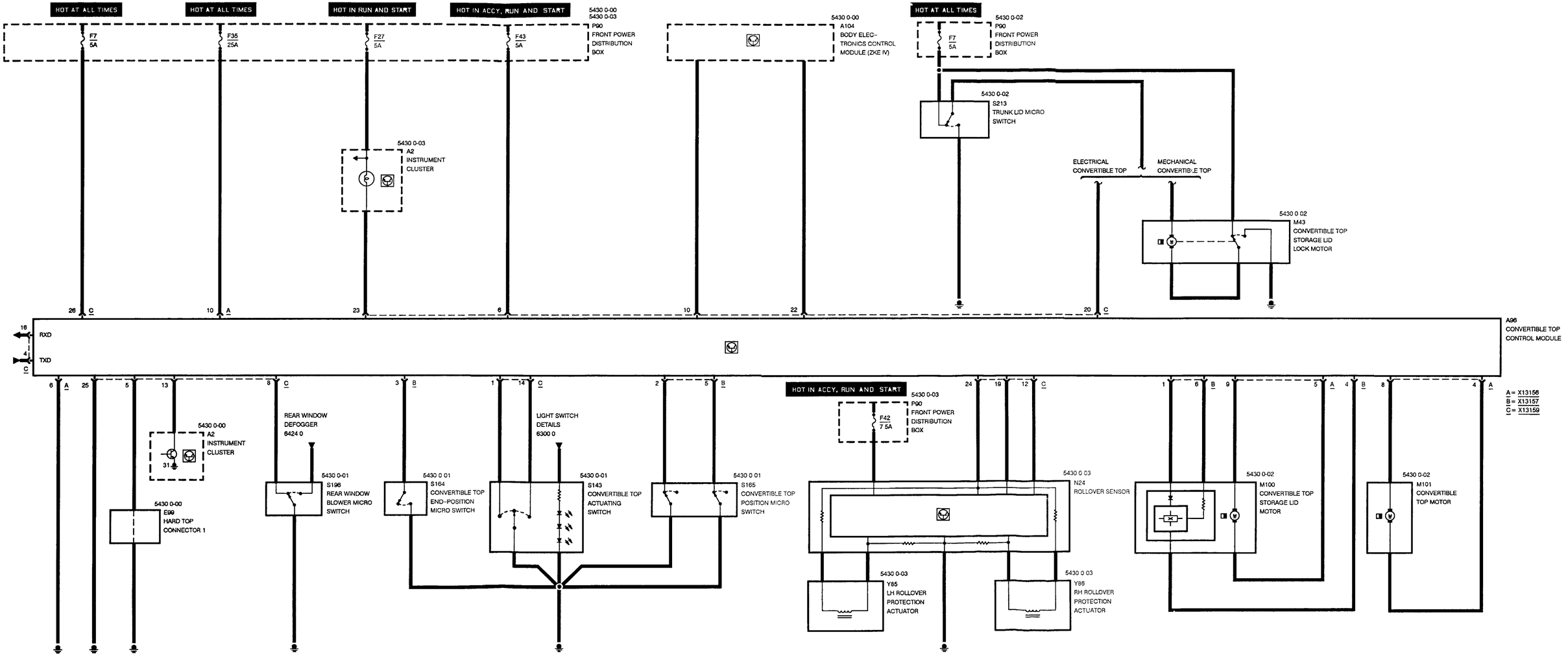


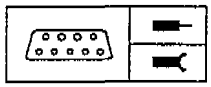
POWER SUN ROOF (SHD)




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

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





Pin Assignments

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

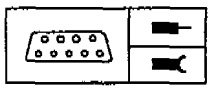
X13156

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

X13157

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

E = Input, A = Output, M = Ground



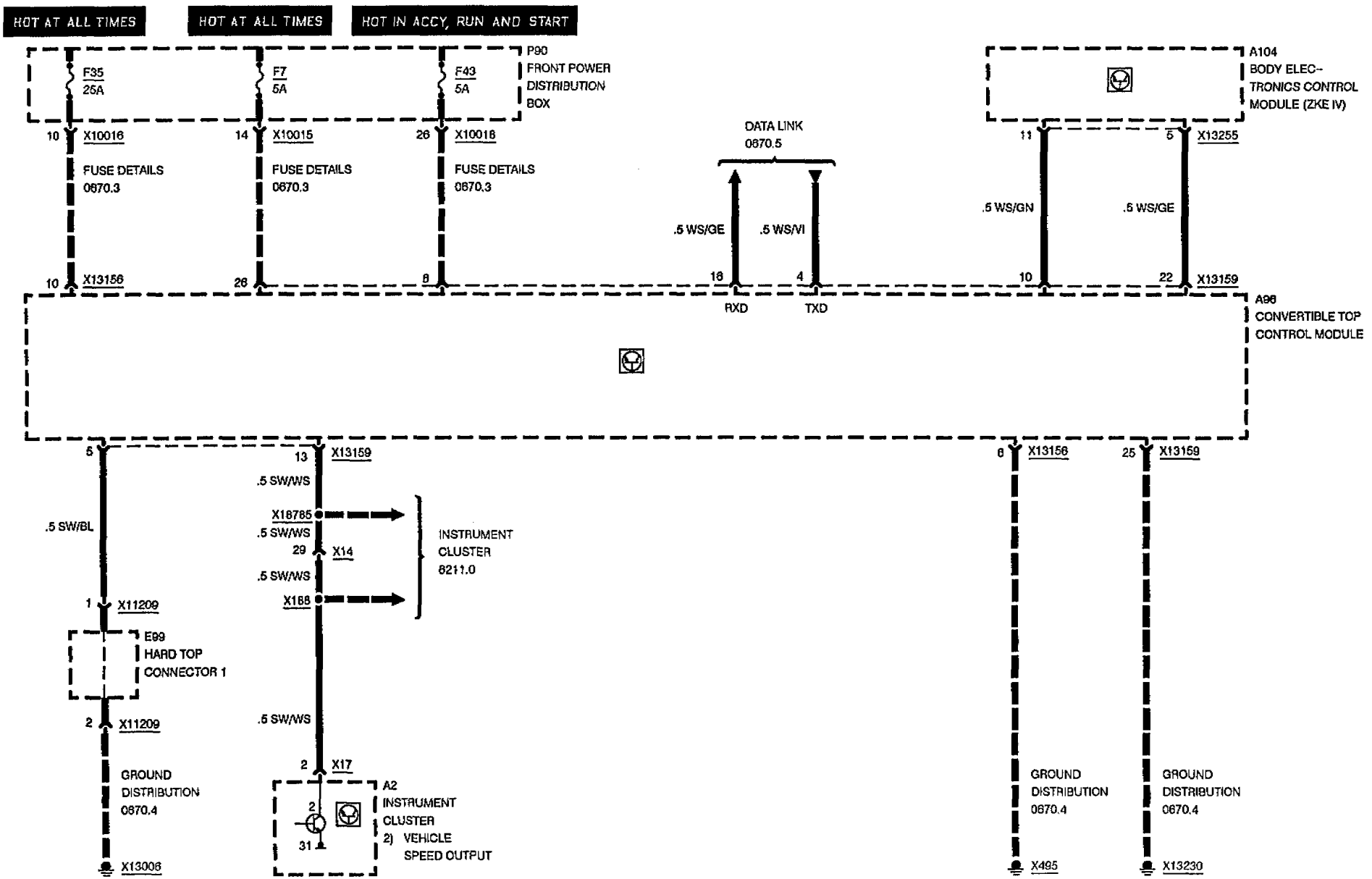
Pin Assignments

X13159

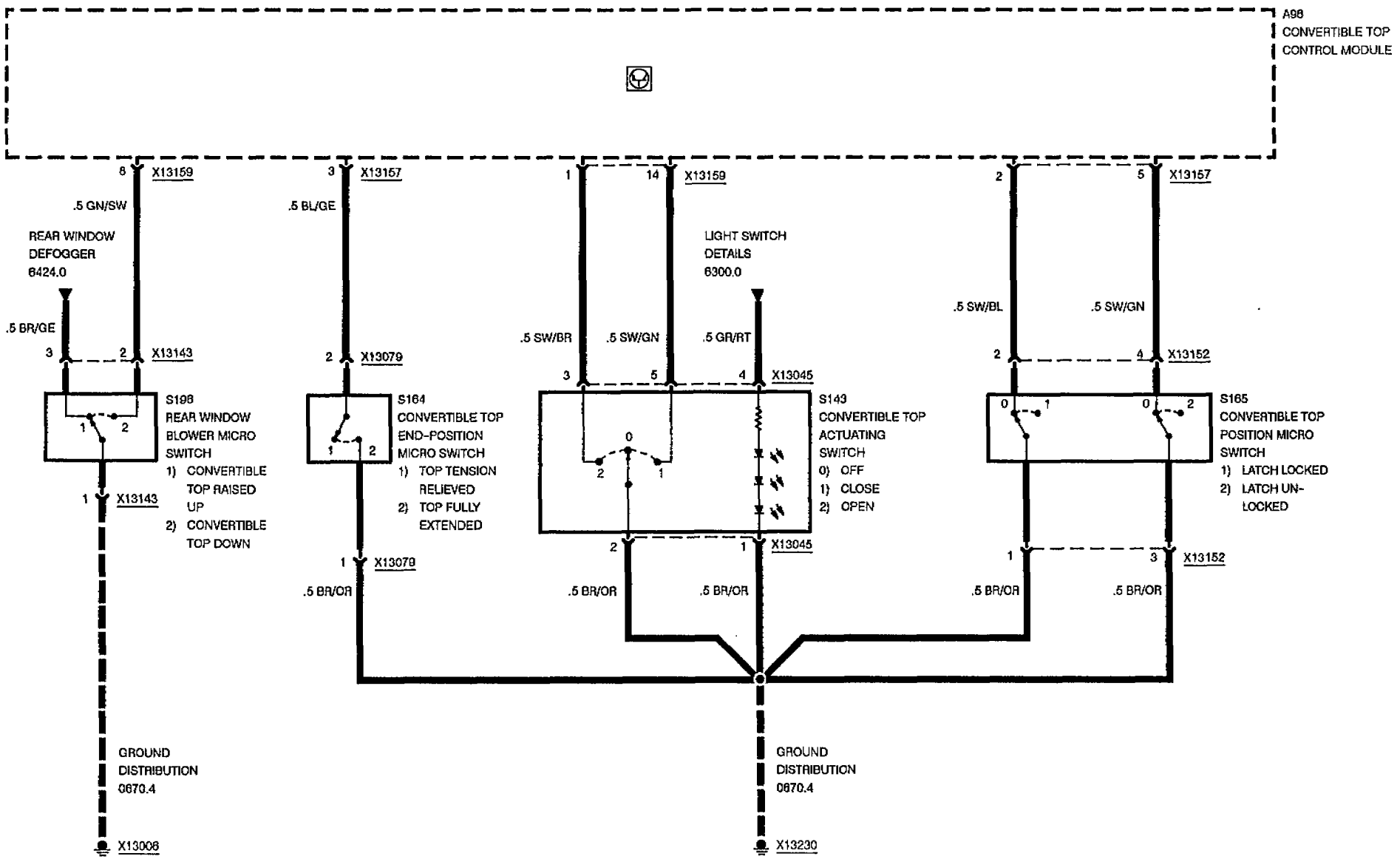
Pin	Type	Description/Function	Connection
1	E	Top open signal	Convertible top actuating switch
2		Not used	
3		Not used	
4	E/A	TxD data signal	Data link connector
5	M	Ground	Hard top connector 1
6	E	Power supply	Front power distribution box
7		Not used	
8	E	Rear window blower signal	Rear window blower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

E = Input, A = Output, M = Ground

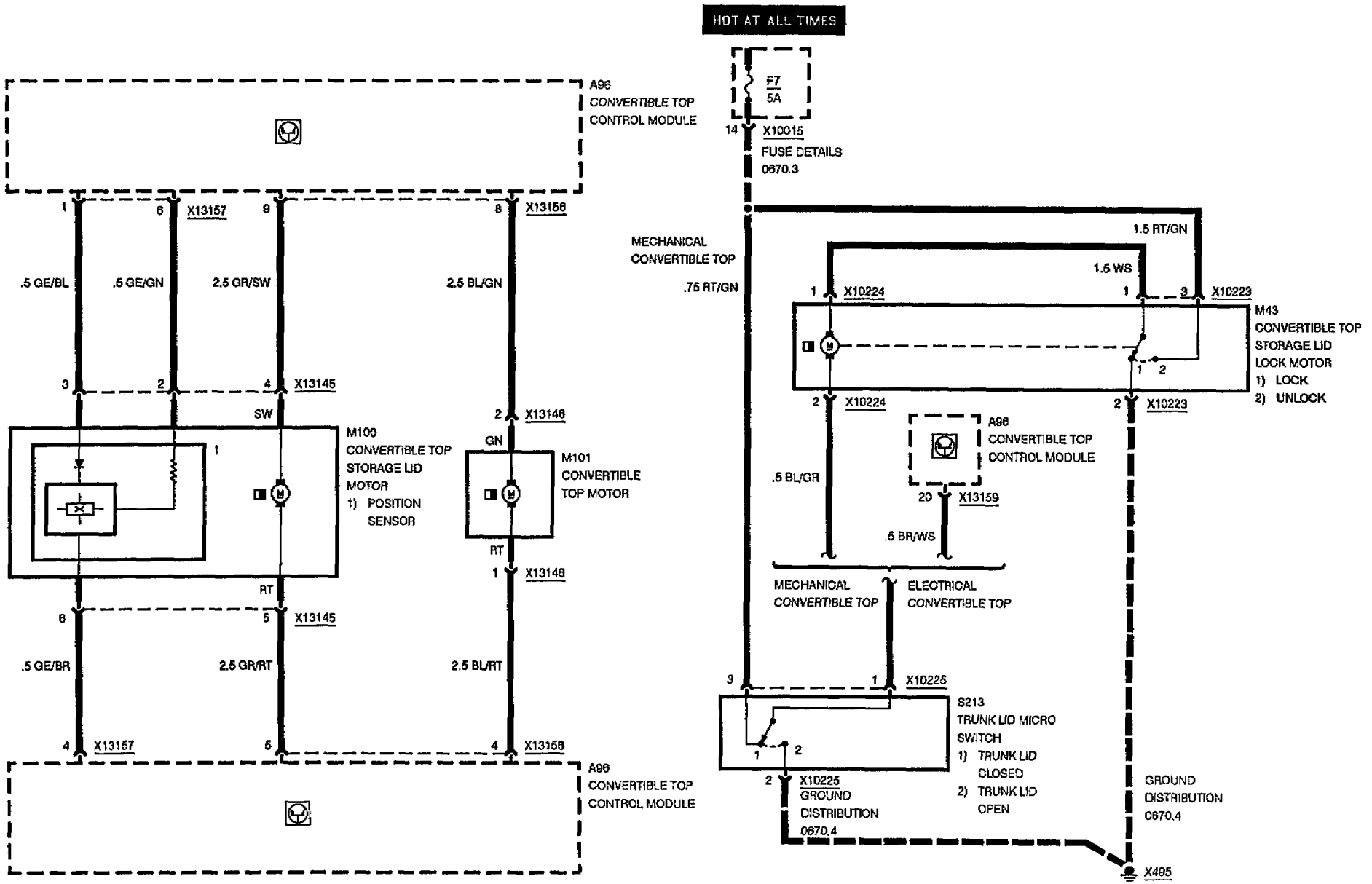
ELECTRO- MECHANICAL CONVERTIBLE TOP



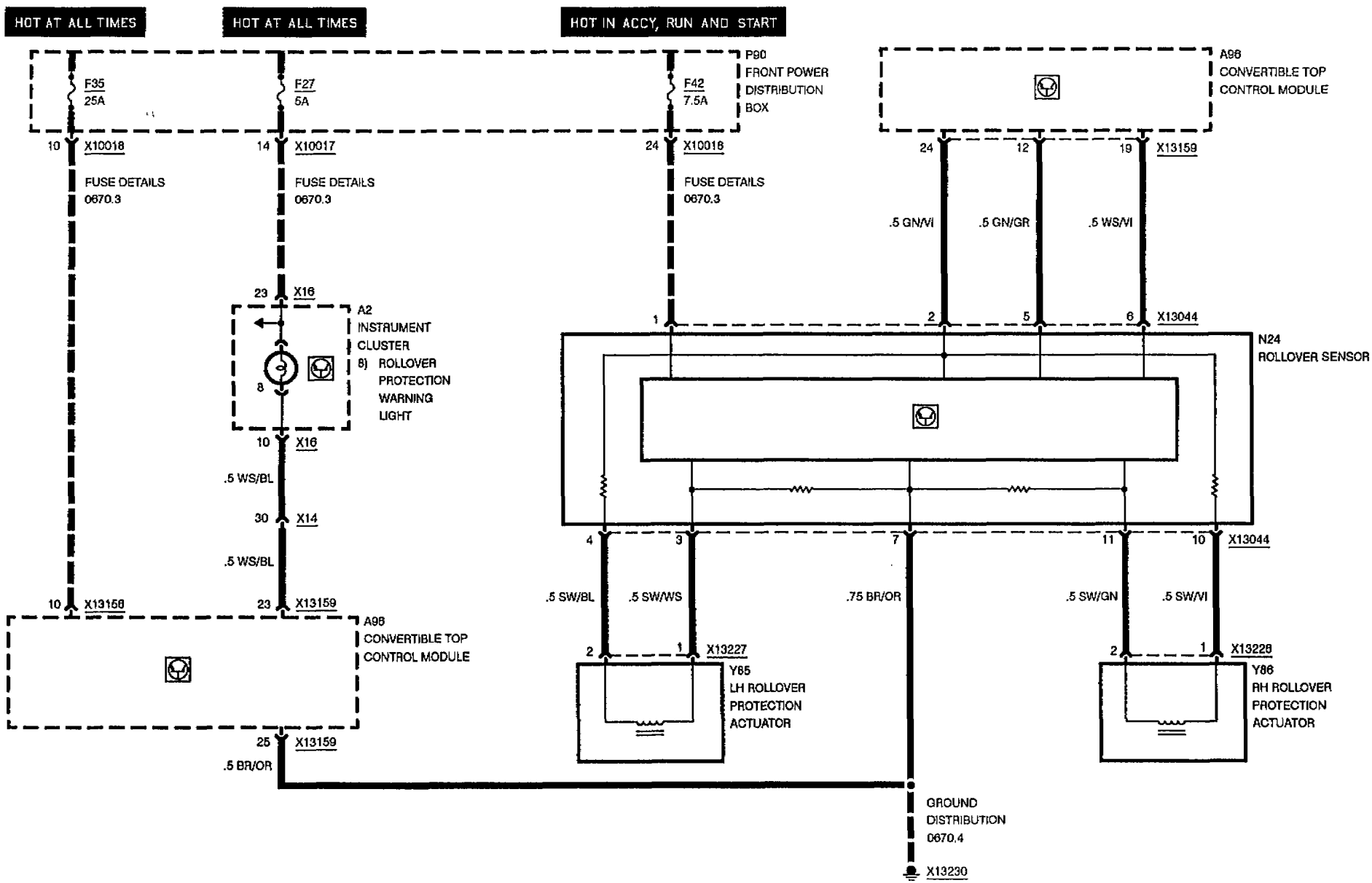
ELECTRO- MECHANICAL CONVERTIBLE TOP

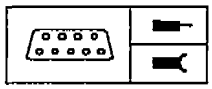


ELECTRO- MECHANICAL CONVERTIBLE TOP



ELECTRO- MECHANICAL CONVERTIBLE TOP





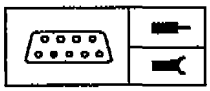
Pin Assignments

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

X13258

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

E = Input, A = Output, M = Ground

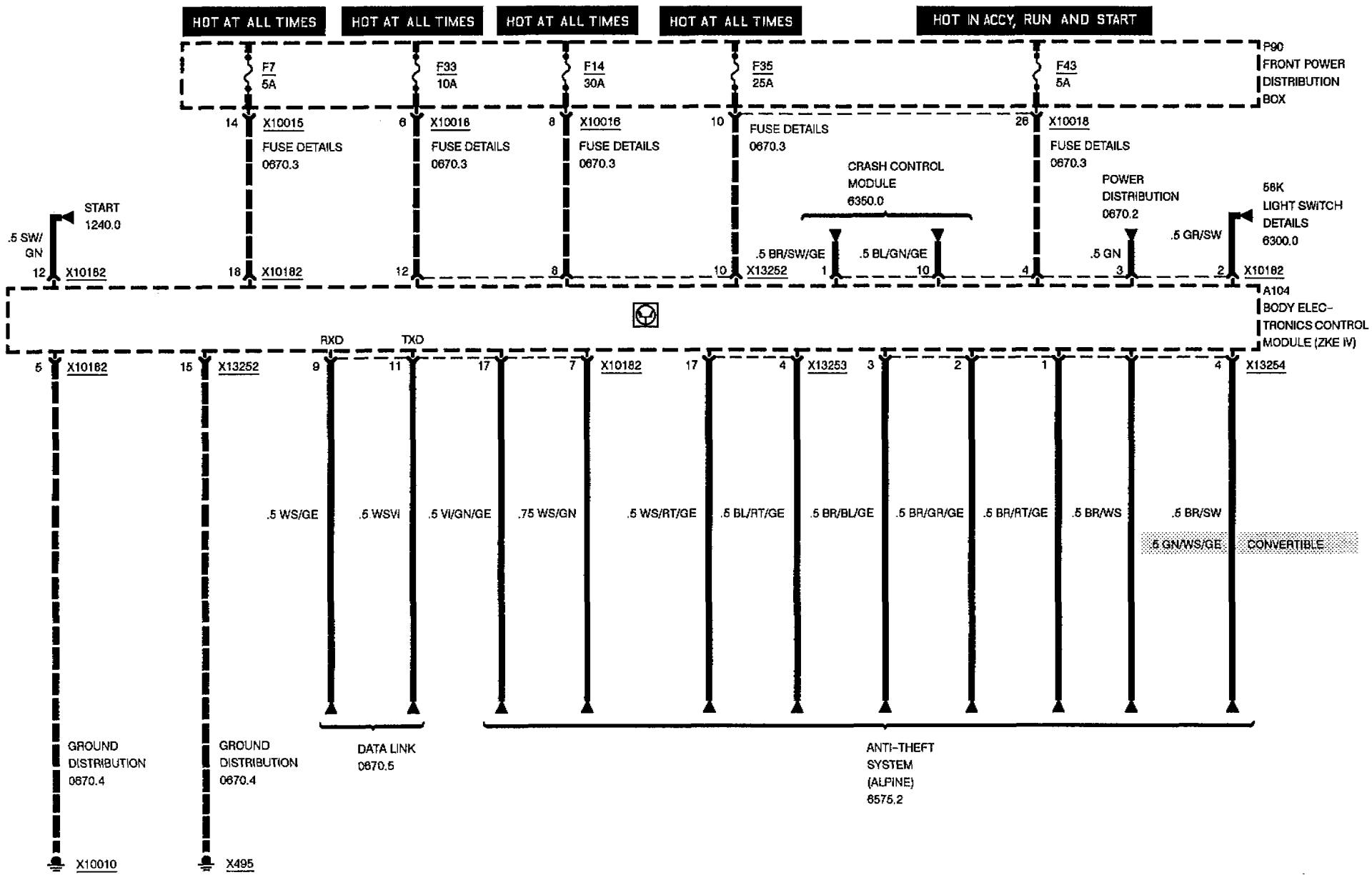


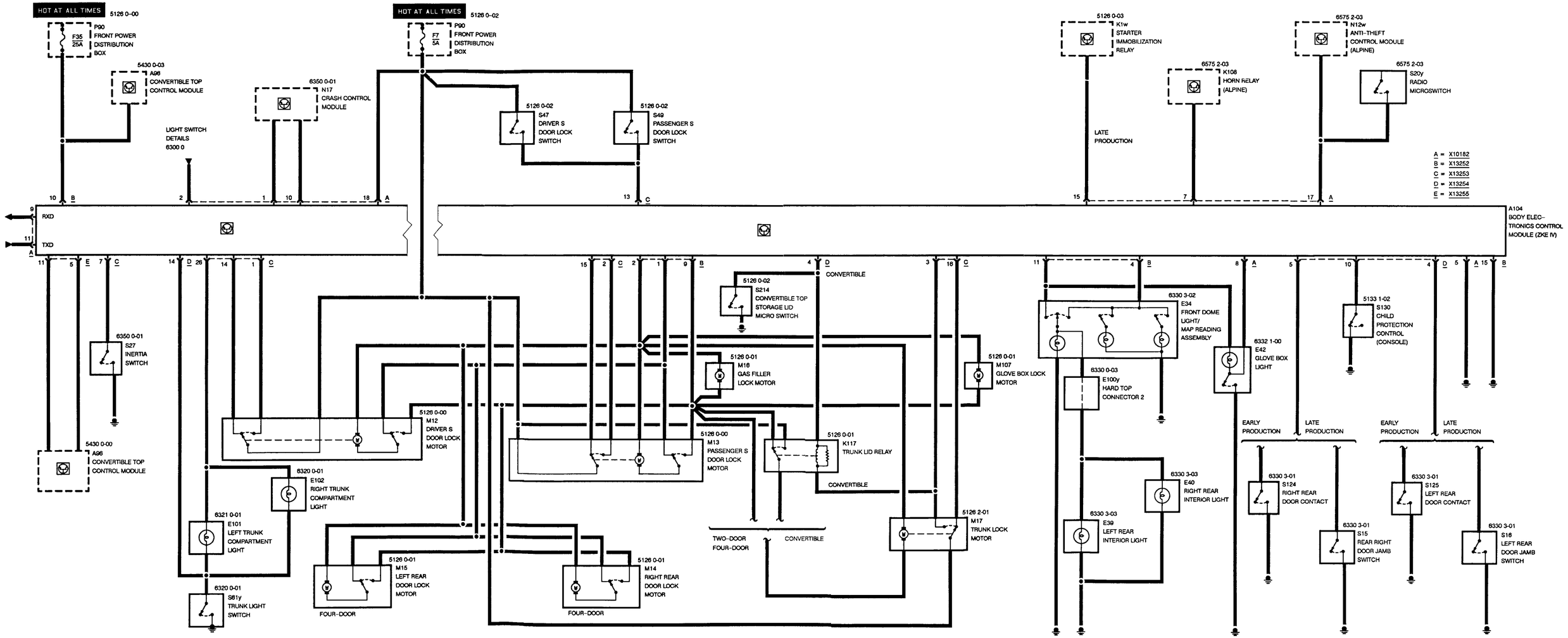
Pin Assignments

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

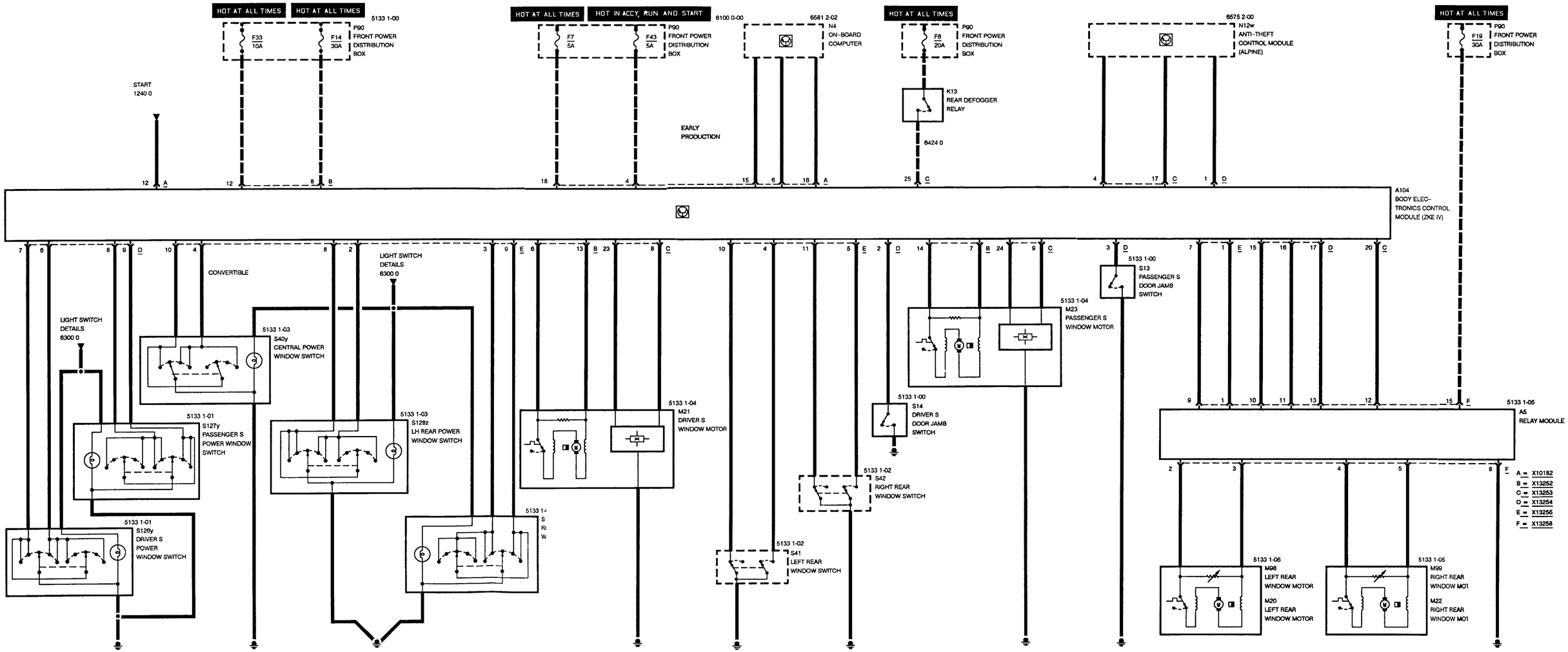
E = Input, A = Output, M = Ground

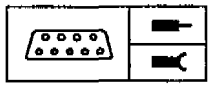
CENTRAL BODY ELECTRONICS (ZKE IV)




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

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





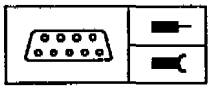
Pin Assignments

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

X10182

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

E = Input, A = Output, M = Ground



Pin Assignments

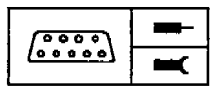
X13252

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

X13253

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

E = Input, A = Output, M = Ground



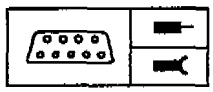
Pin Assignments

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

X13254

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

E = Input, A = Output, M = Ground



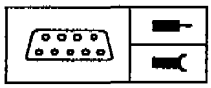
Pin Assignments

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

X13255

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

E = Input, A = Output, M = Ground



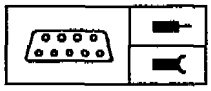
Pin Assignments

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

X13258

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

E = Input, A = Output, M = Ground

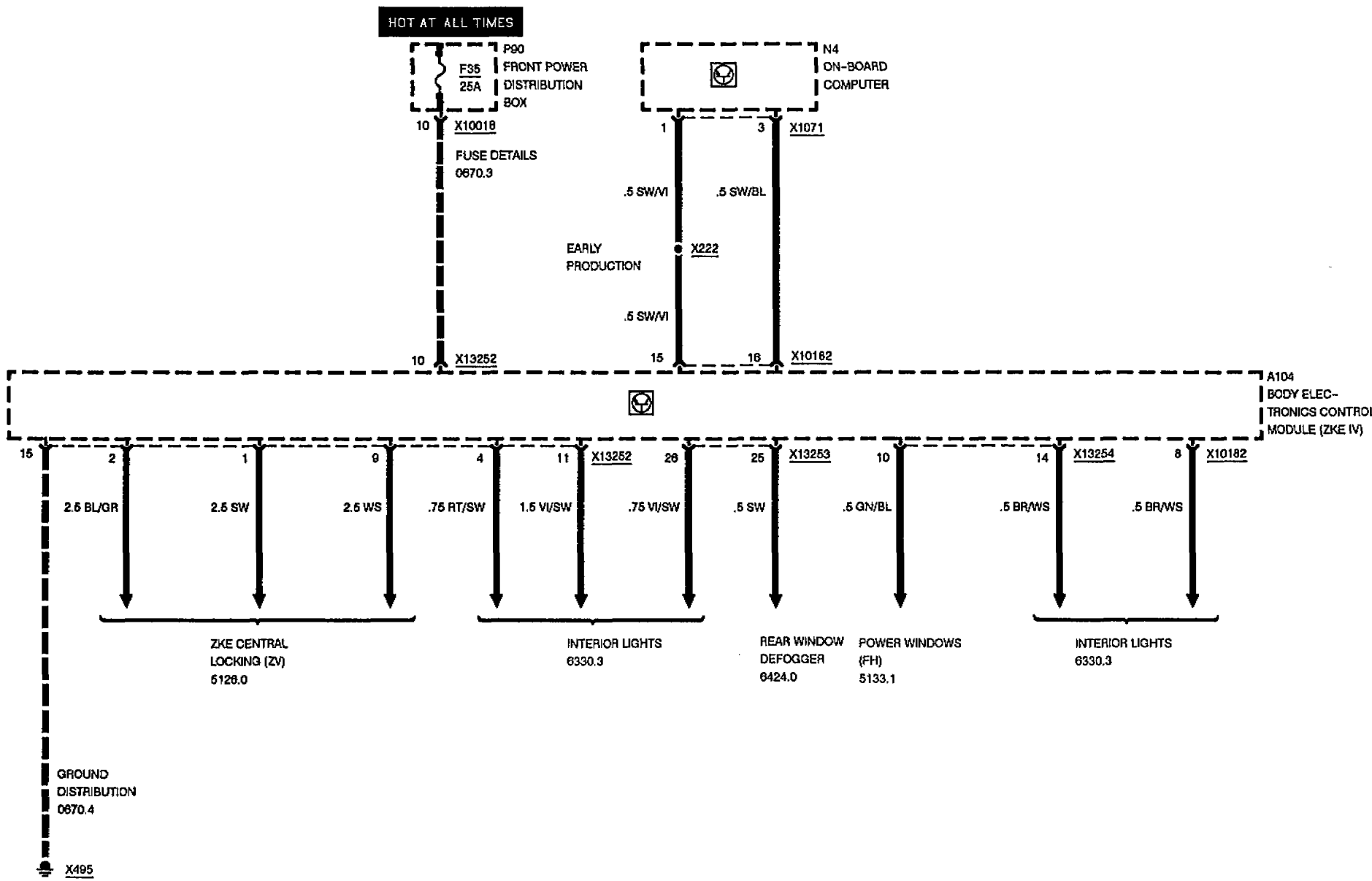


Pin Assignments

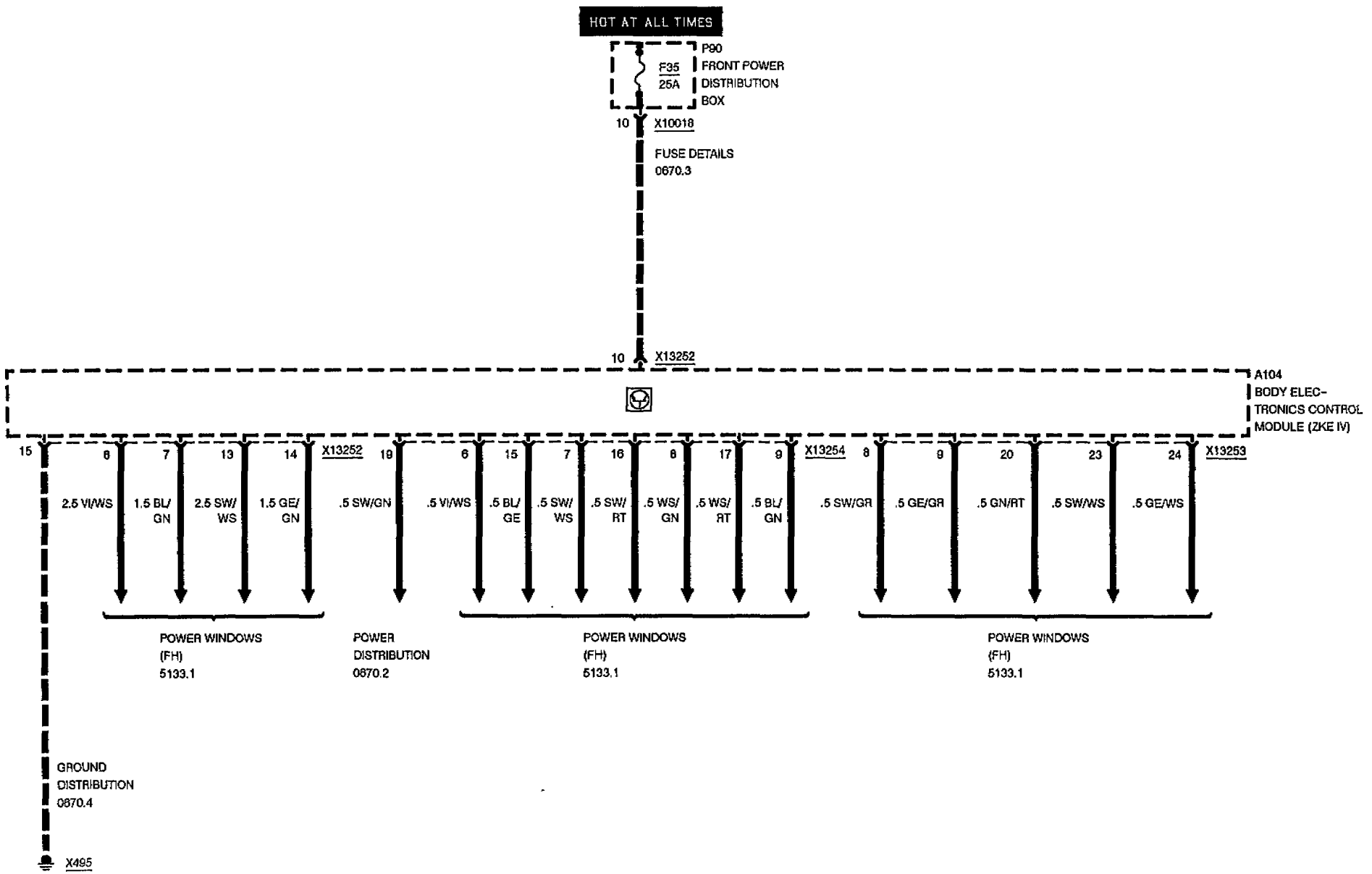
Pin	Type	Description/Function	Connection
12	E	DATA-signal	Central body electronic module
13	E/A	DATA-signal	Central body electronic module
14		Not used	
15	E	Power supply	Front power distribution box

E = Input, A = Output, M = Ground

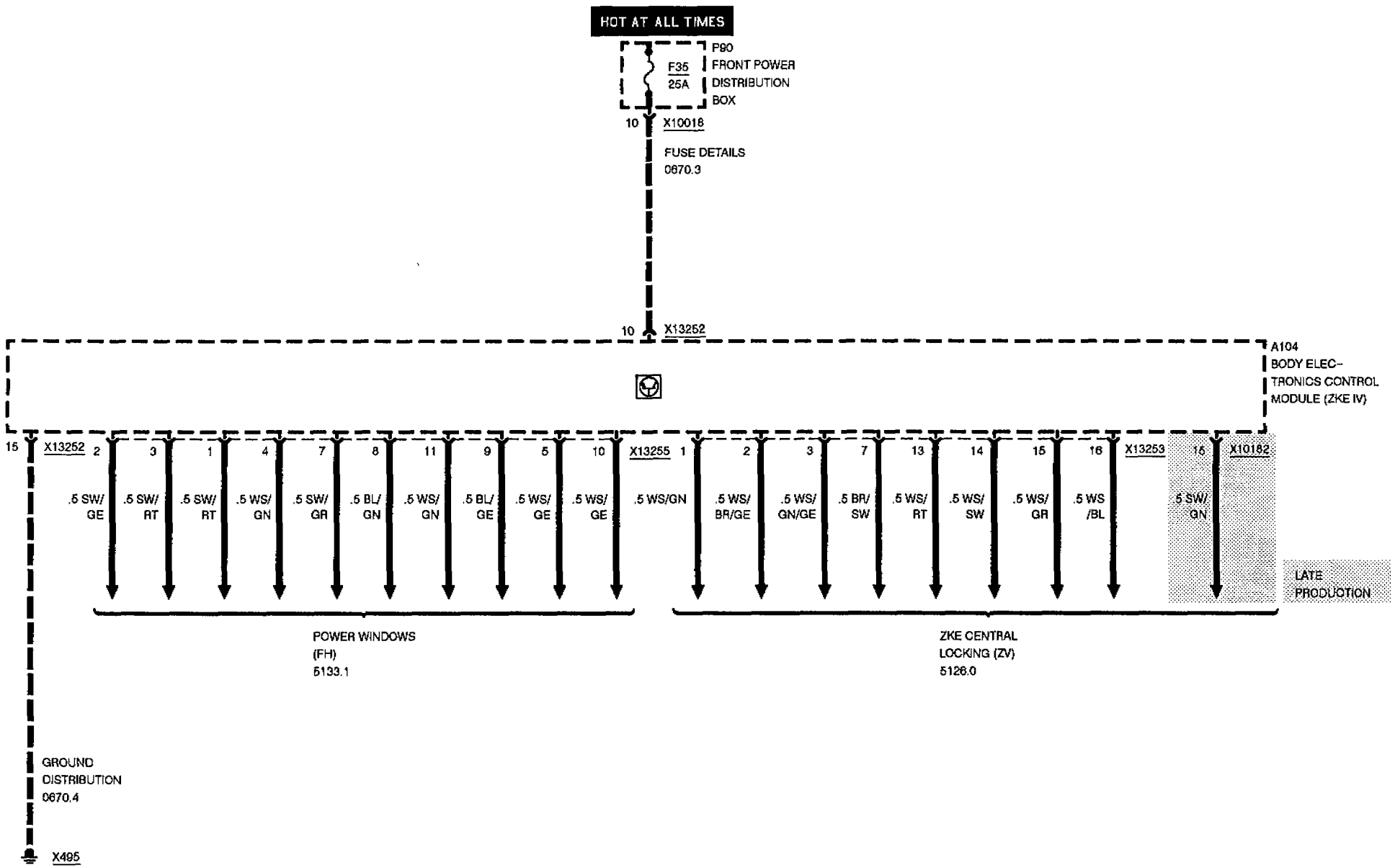
CENTRAL BODY ELECTRONICS (ZKE IV)

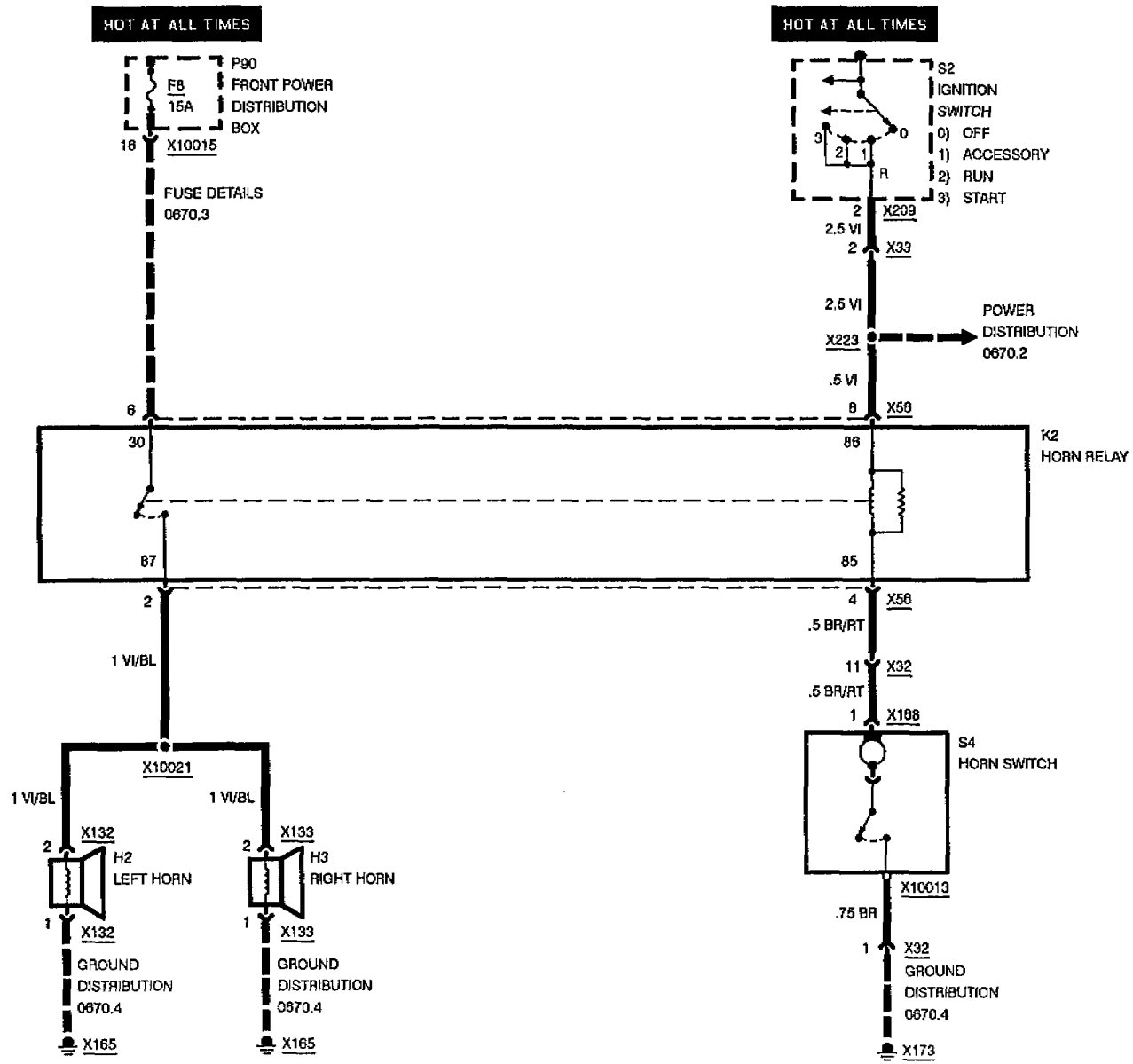


CENTRAL BODY ELECTRONICS (ZKE IV)



CENTRAL BODY ELECTRONICS (ZKE IV)

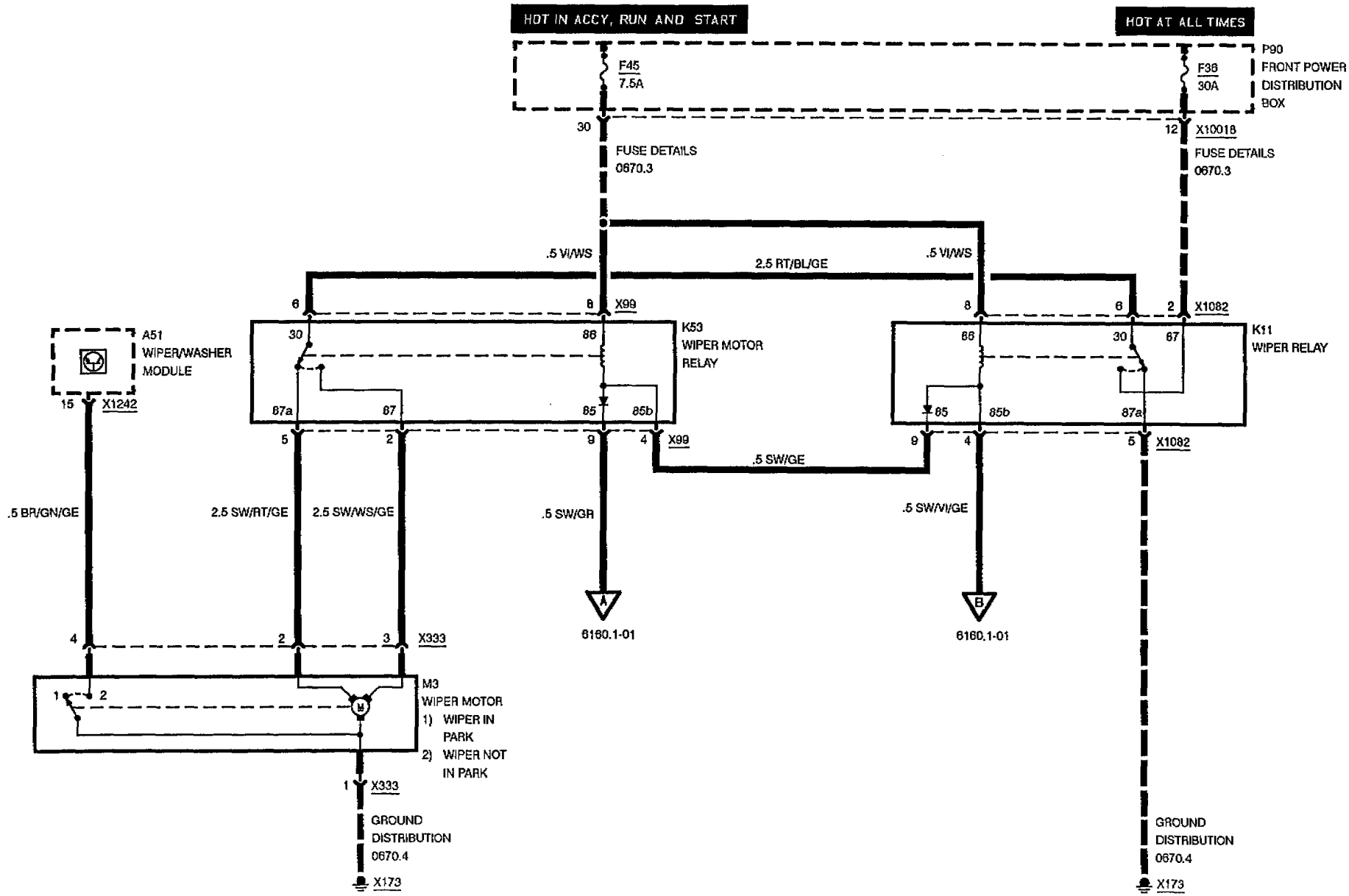



HOT AT ALL TIMES
HOT AT ALL TIMES
P90
F8
15A
FRONT POWER
DISTRIBUTION
BOX
18
X10015
FUSE DETAILS
0670.3
S2
IGNITION
SWITCH
0) OFF
1) ACCESSORY
2) RUN
3) START
2
X209
2.5 VI
2
X33
2.5 VI
X223
POWER
DISTRIBUTION
0670.2
.5 VI
6
8
X56
K2
HORN RELAY
30
86
87
85
2
4
X56
.5 BR/RT
1 VI/BL
11
X32
.5 BR/RT
1
X168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

WIPER/WASHER MODULE (WWM)

CDN

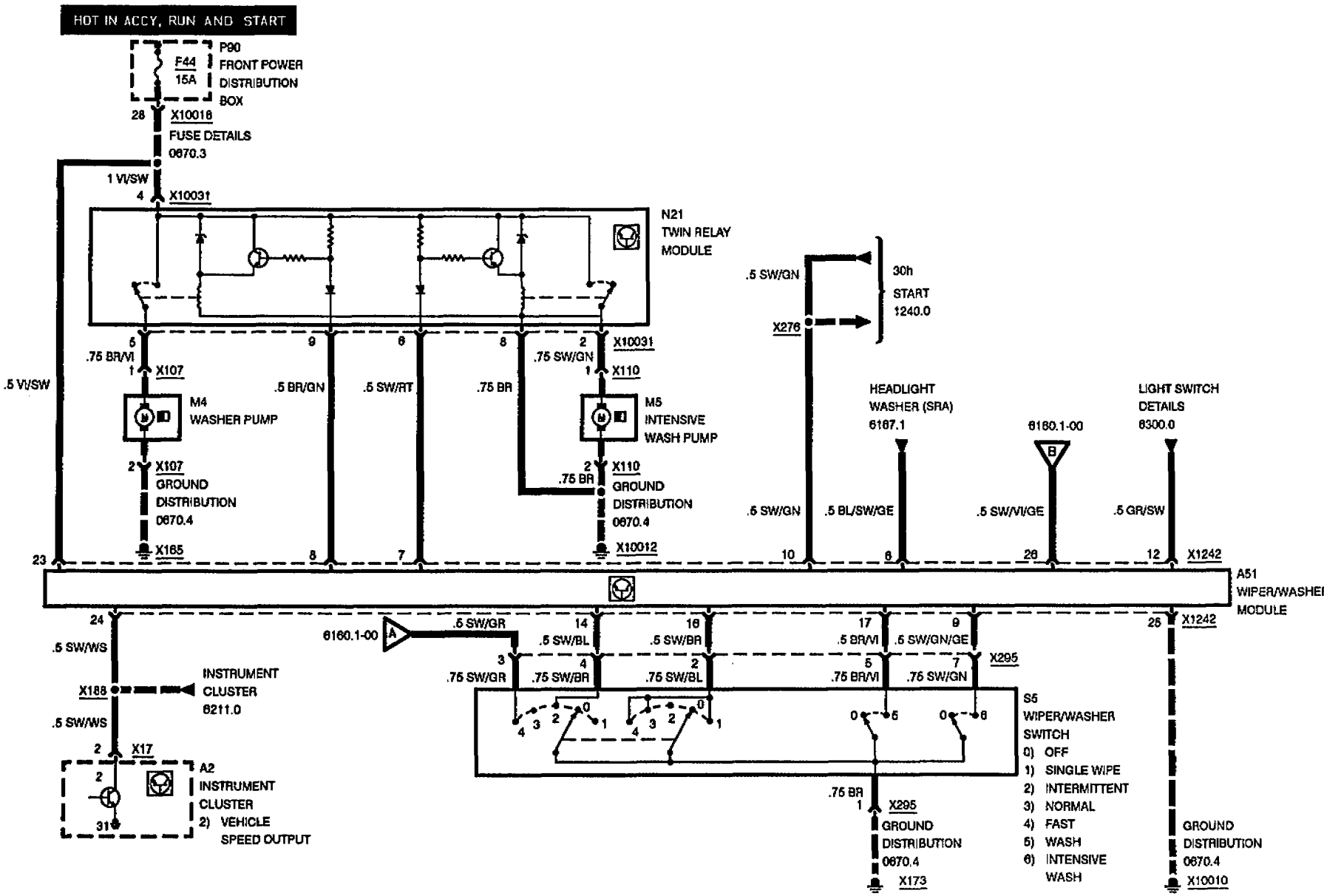
WASHER, INTENSIVE WASHER, HEADLIGHT WASHER - HIGH



WIPER/WASHER MODULE (WWM)

CDN

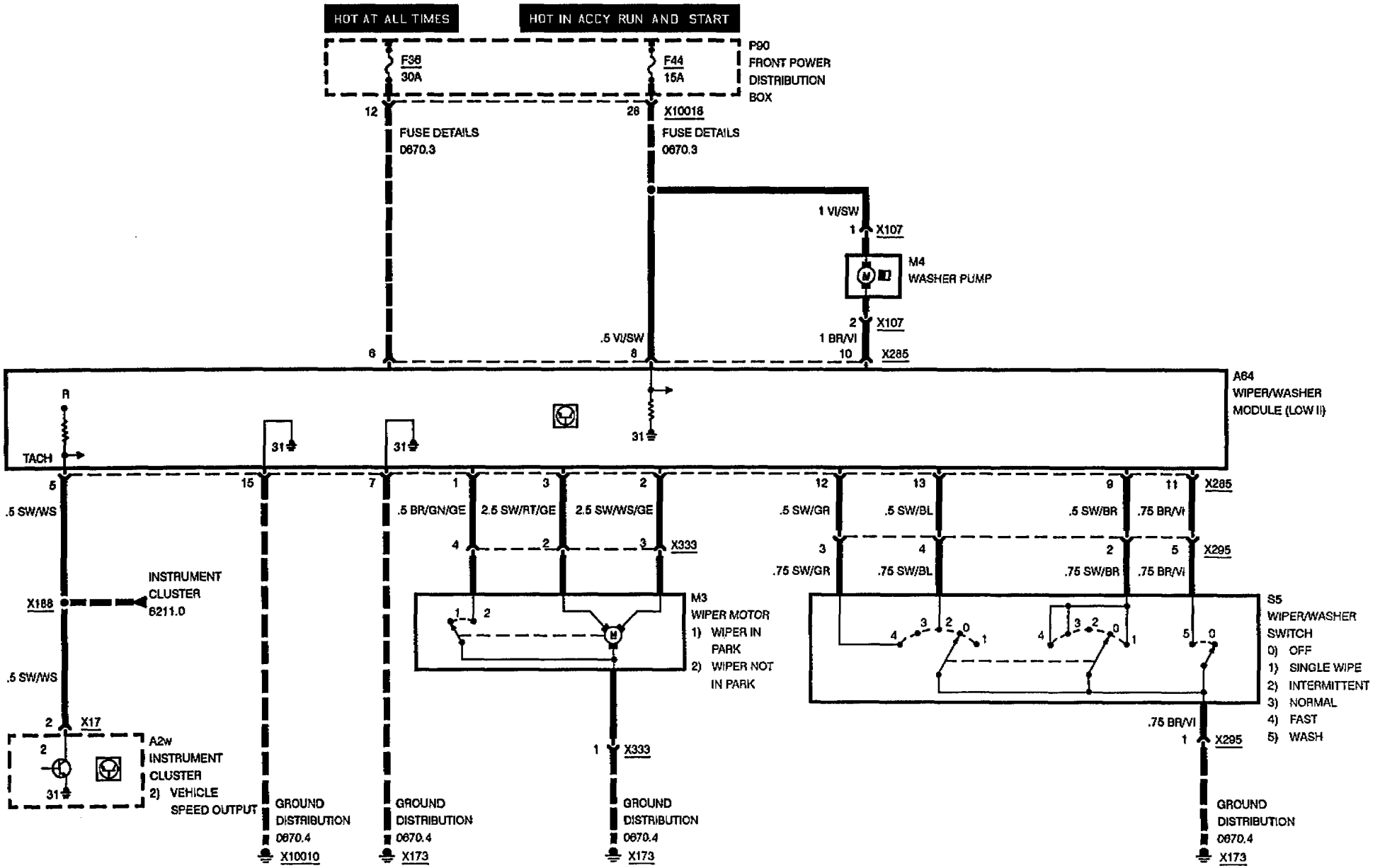
WASHER, INTENSIVE WASHER, HEADLIGHT WASHER - HIGH



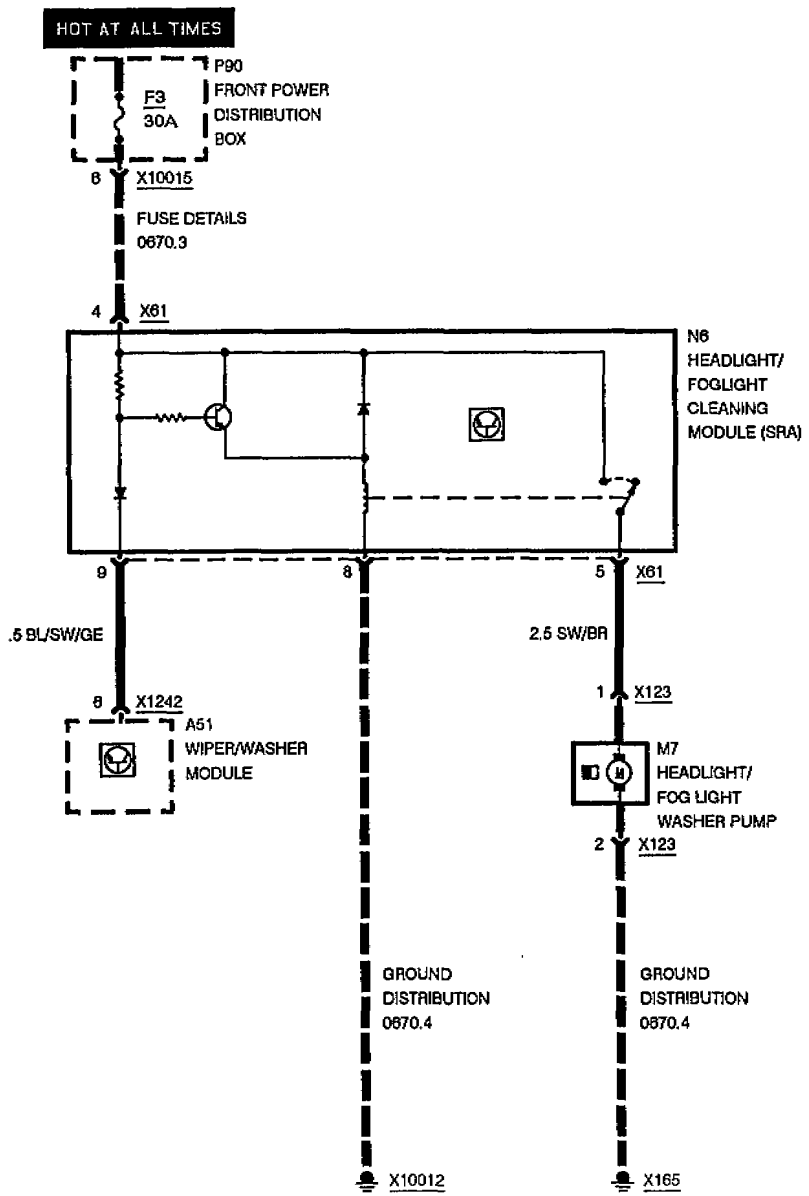
WIPER/WASHER MODULE (WWM)

USA

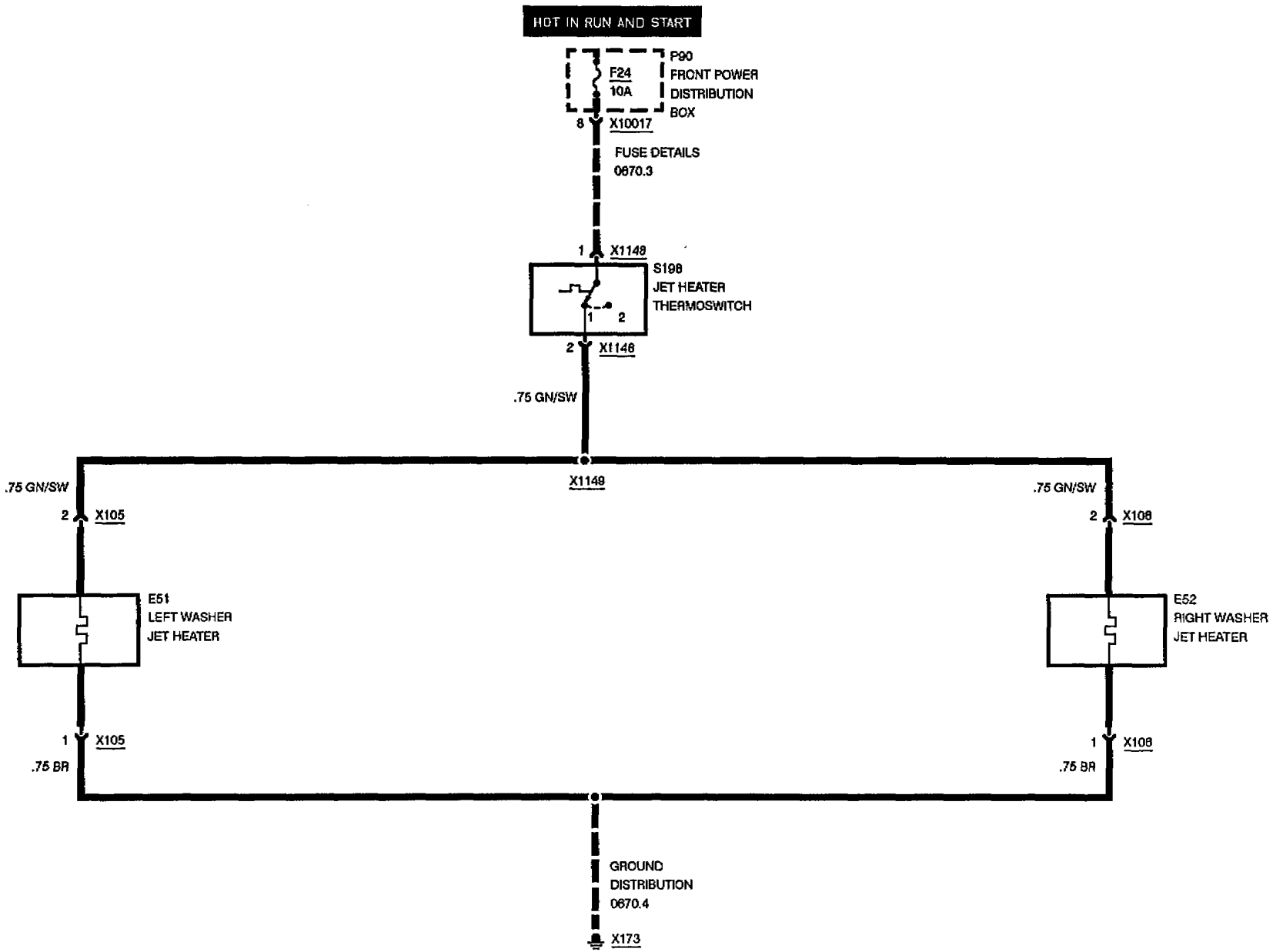
WASHER - LOW



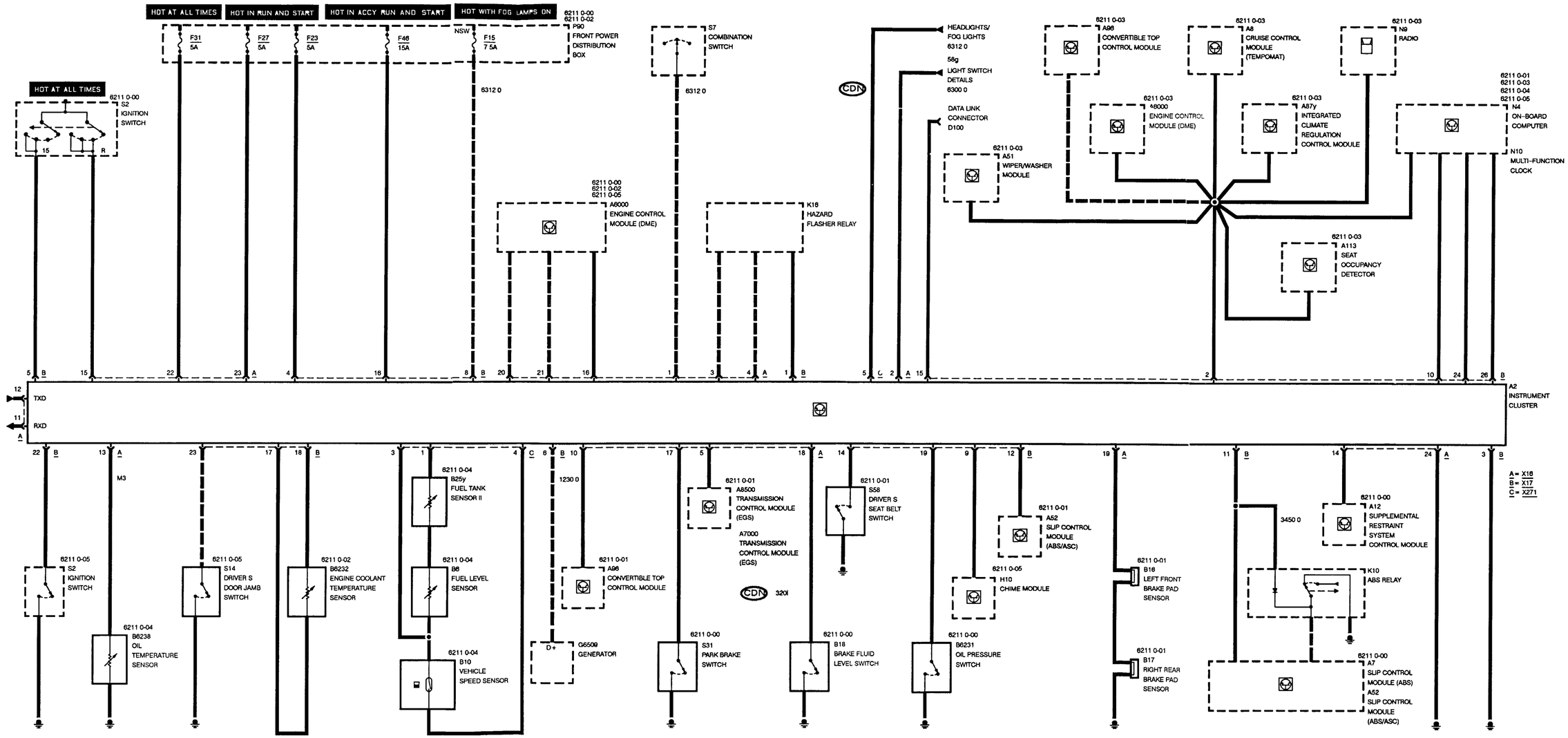
HEADLIGHT WASHER (SRA)

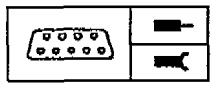


WINDSHIELD WASHER JET HEATERS



12/94 — 6211.0 — 1994
12/94 — 6211 0 — 1994





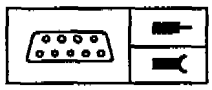
Pin Assignments

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

X16

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

E = Input, A = Output, M = Ground



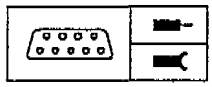
Pin Assignments

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

X17

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

E = Input, A = Output, M = Ground



Pin Assignments

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

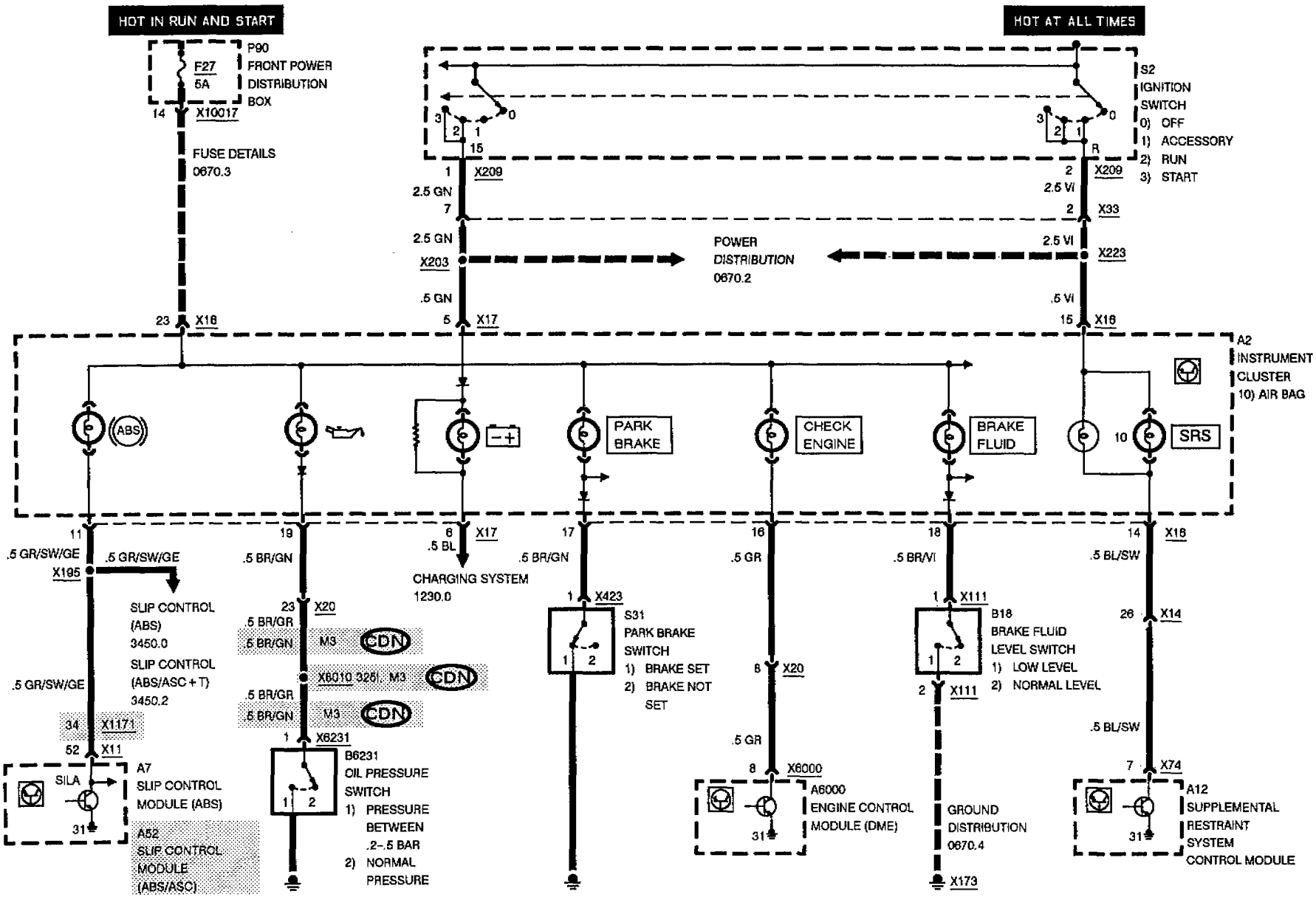
X271

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

E = Input, A = Output, M = Ground

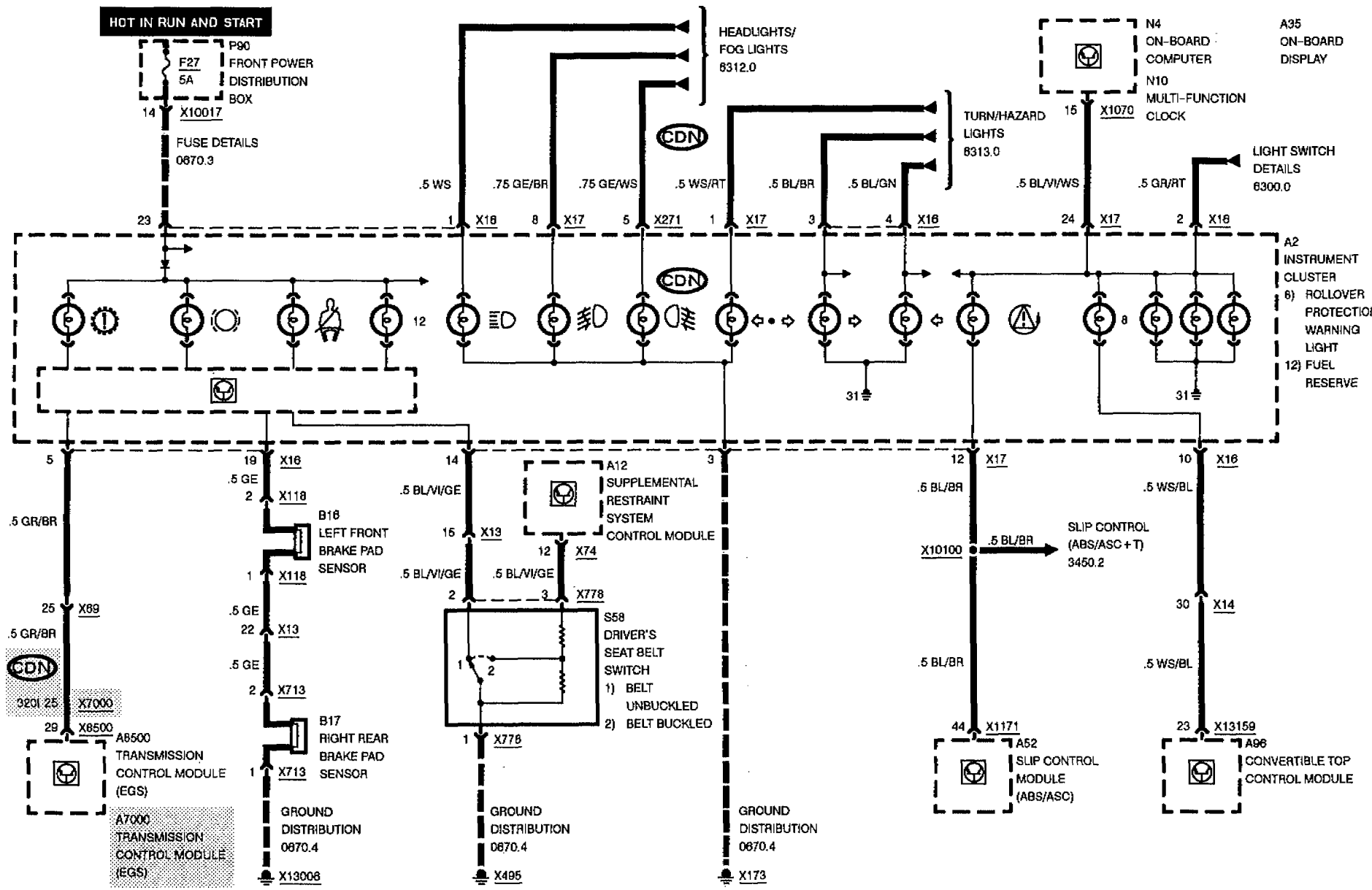
INSTRUMENT CLUSTER

INDICATORS



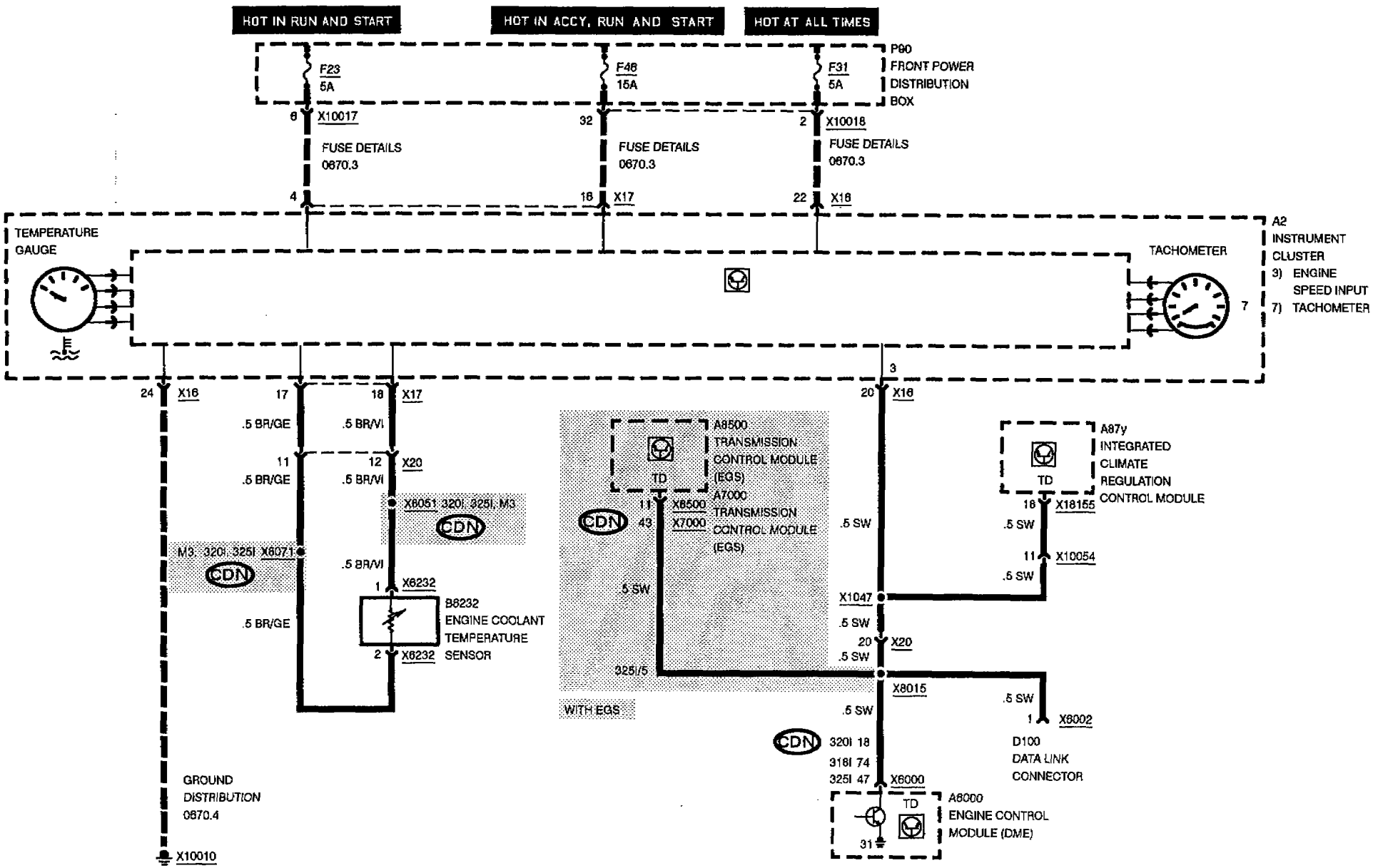
INSTRUMENT CLUSTER

INDICATORS



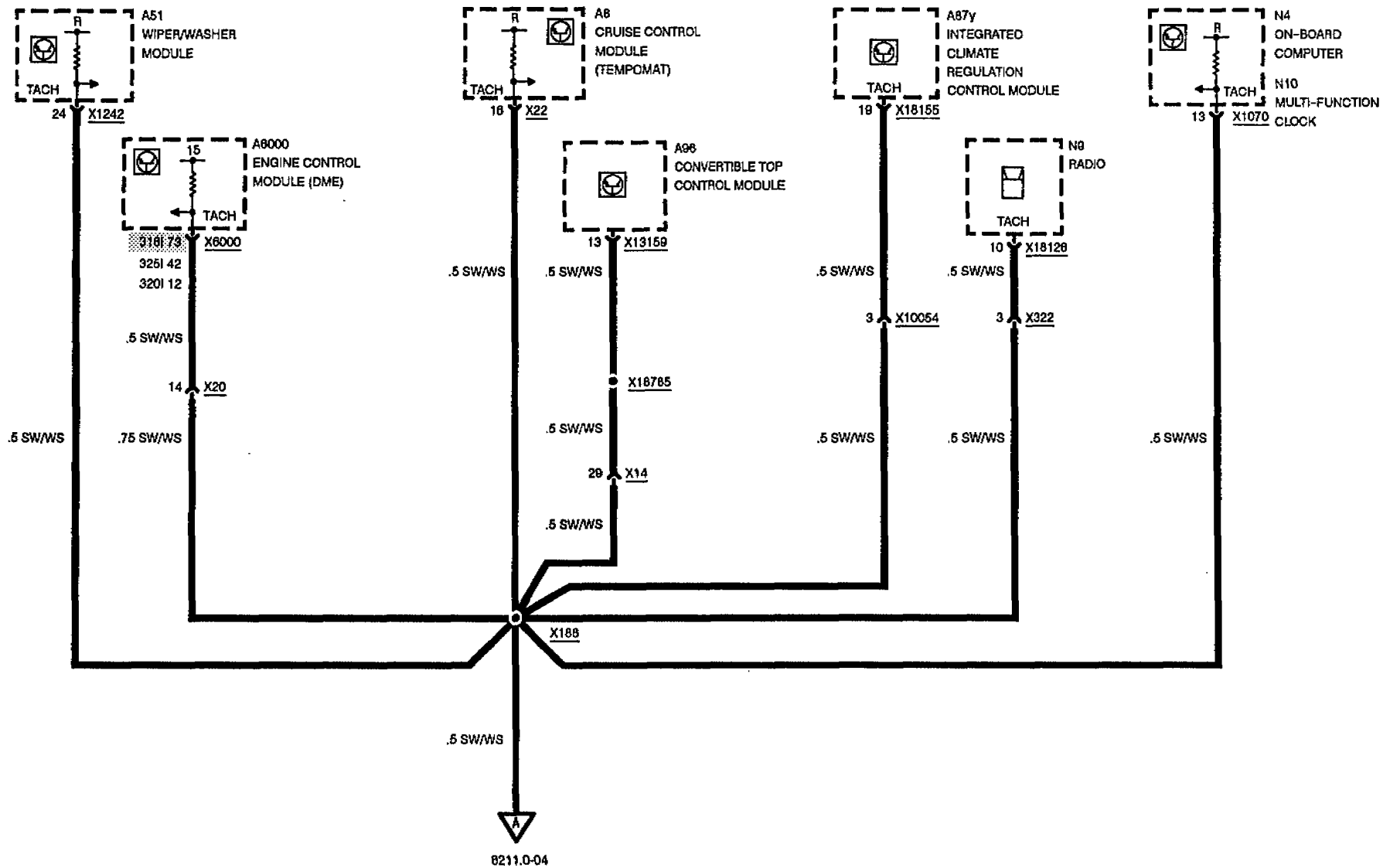
INSTRUMENT CLUSTER

INDICATORS



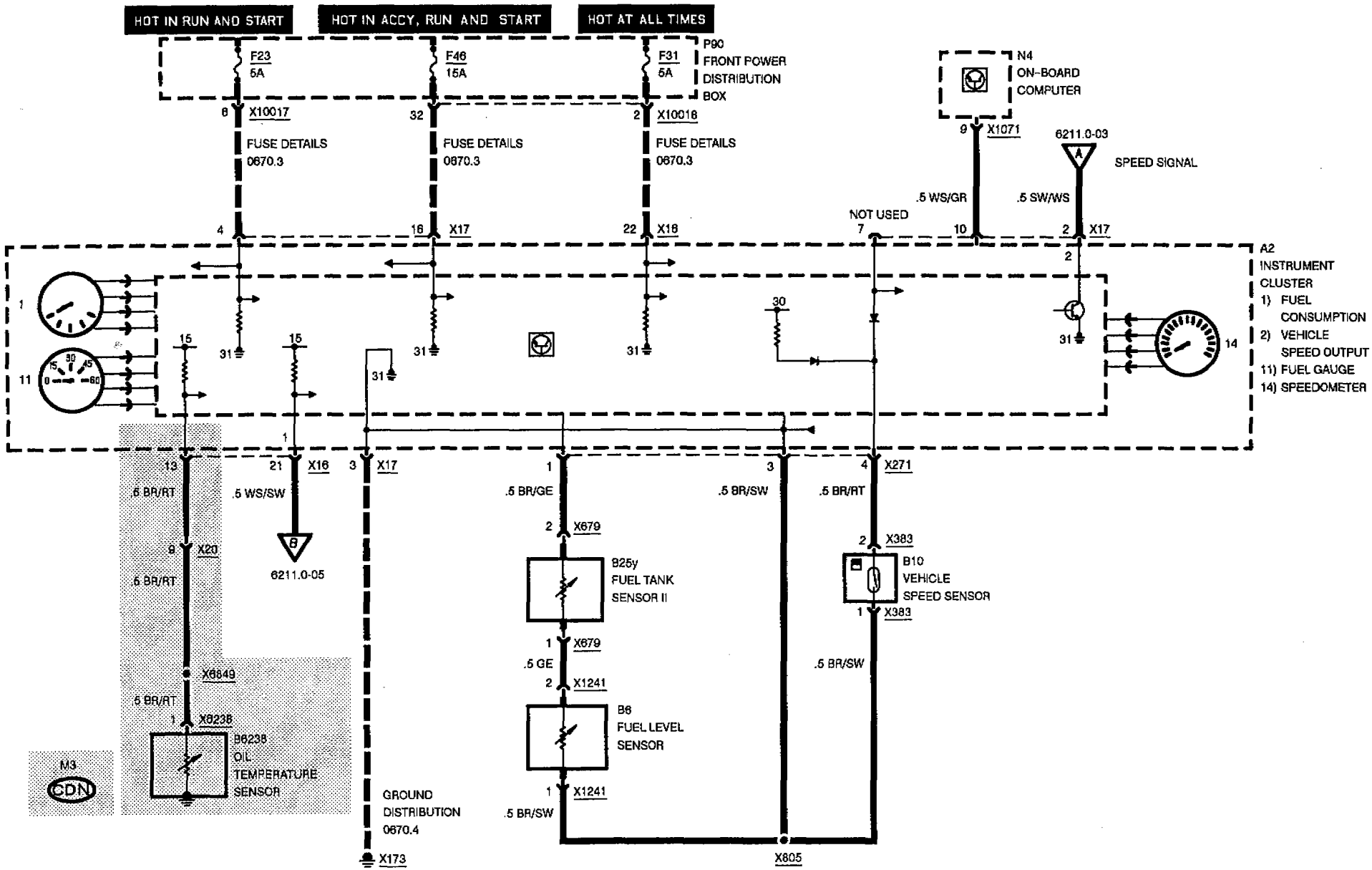
INSTRUMENT CLUSTER

SIGNAL-OUTPUT SPEEDOMETER



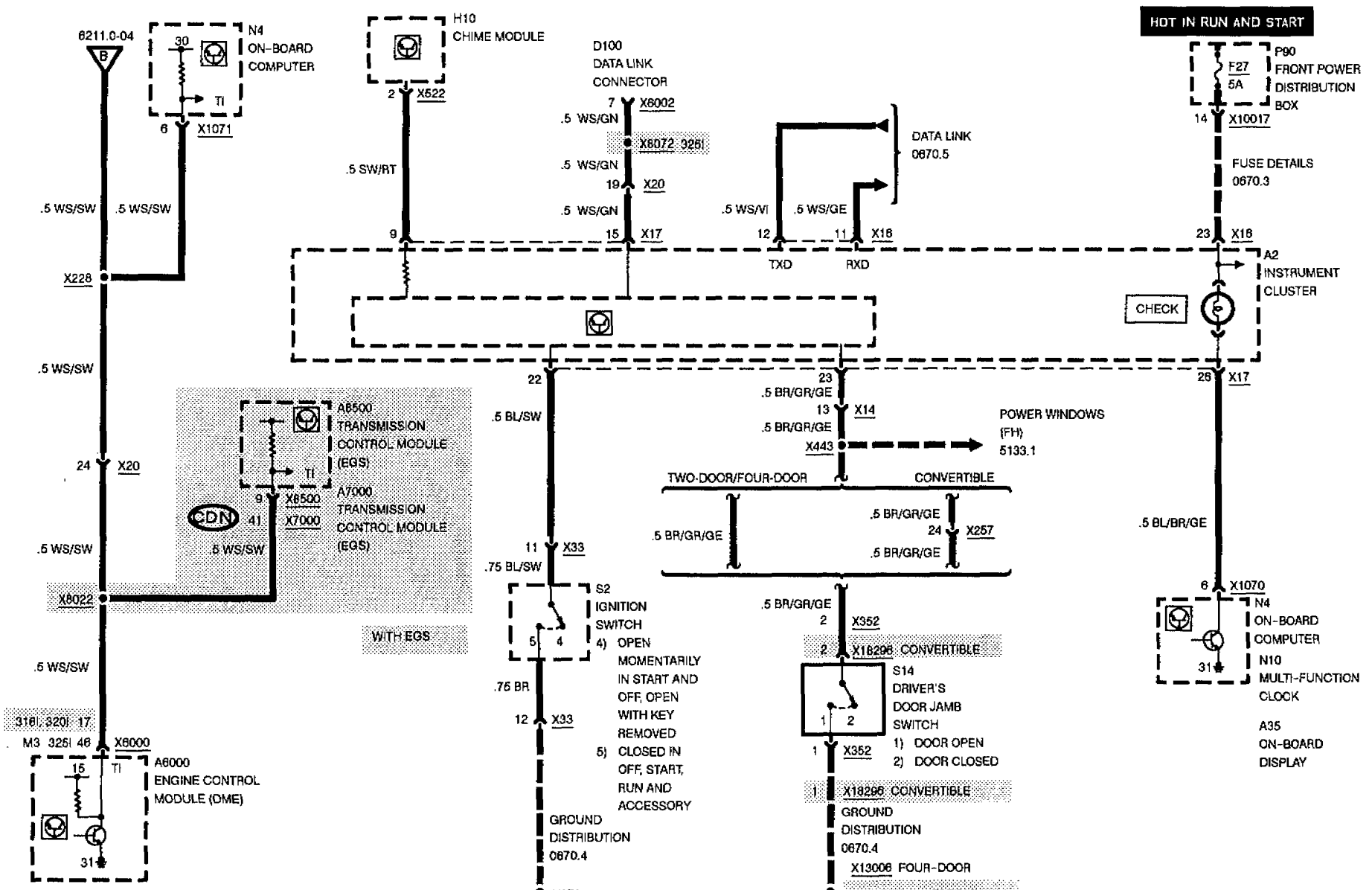
INSTRUMENT CLUSTER

INDICATORS

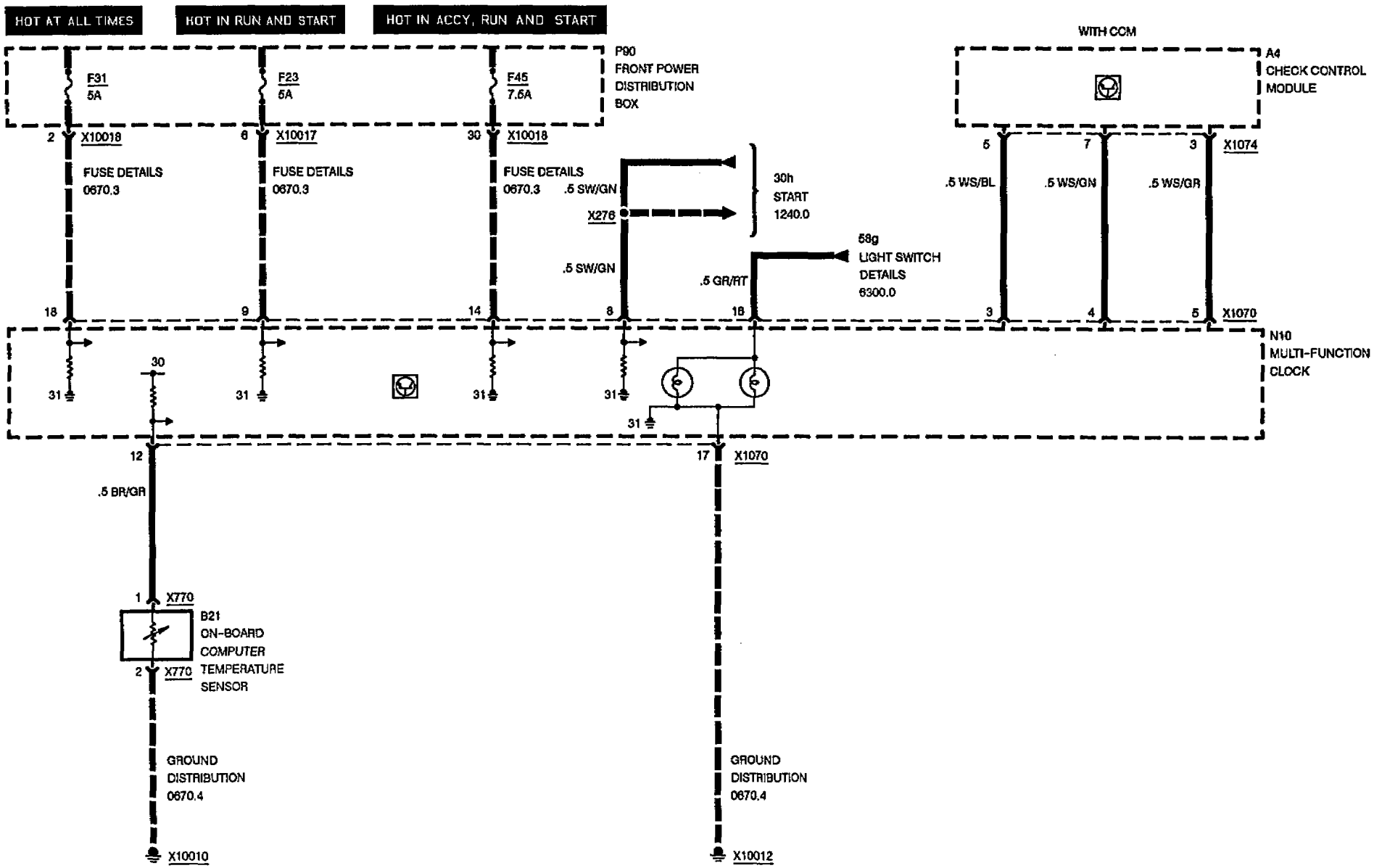


BMW 3 INSTRUMENT CLUSTER

INDICATORS

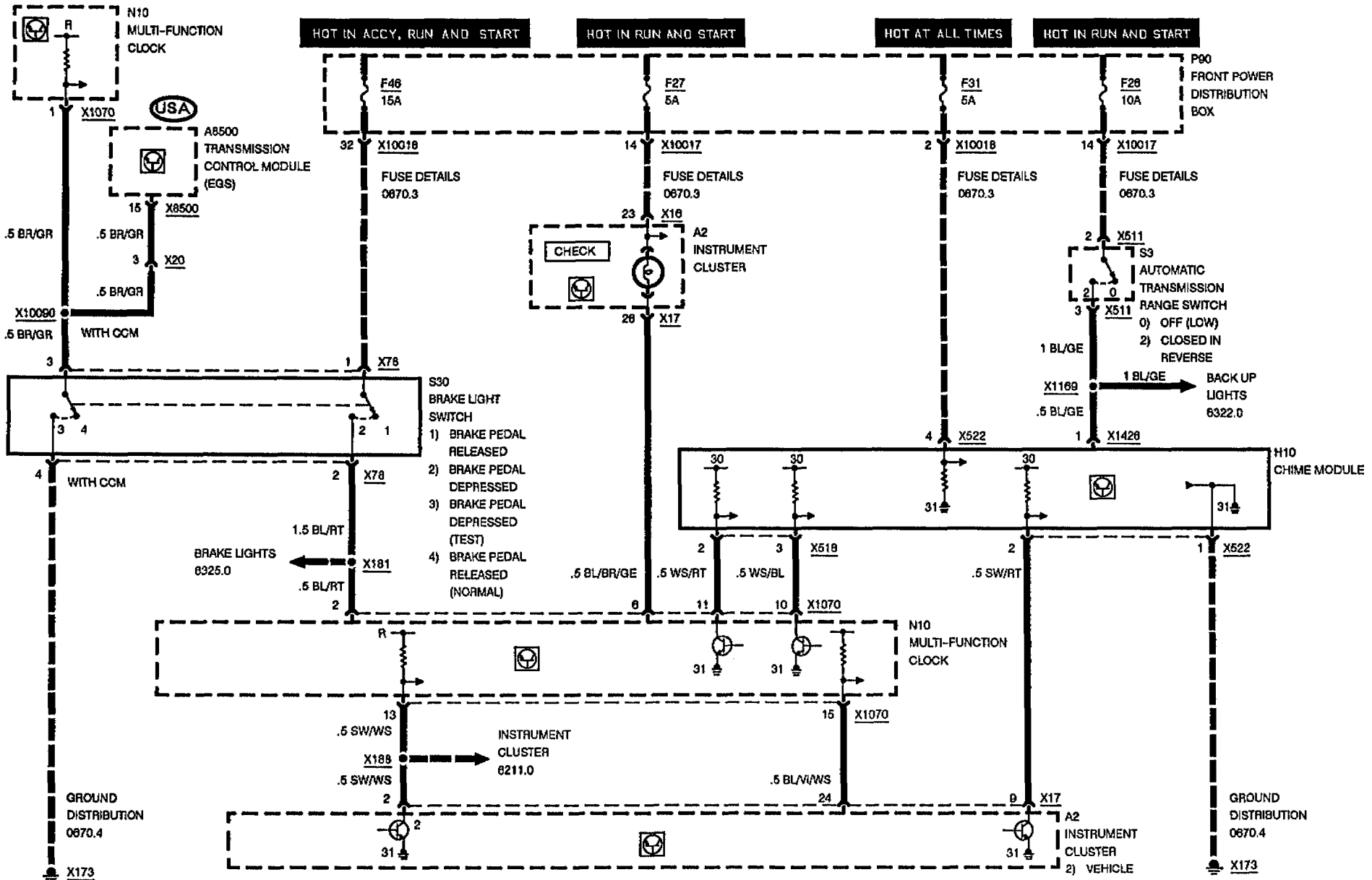


MULTI-FUNCTION CLOCK

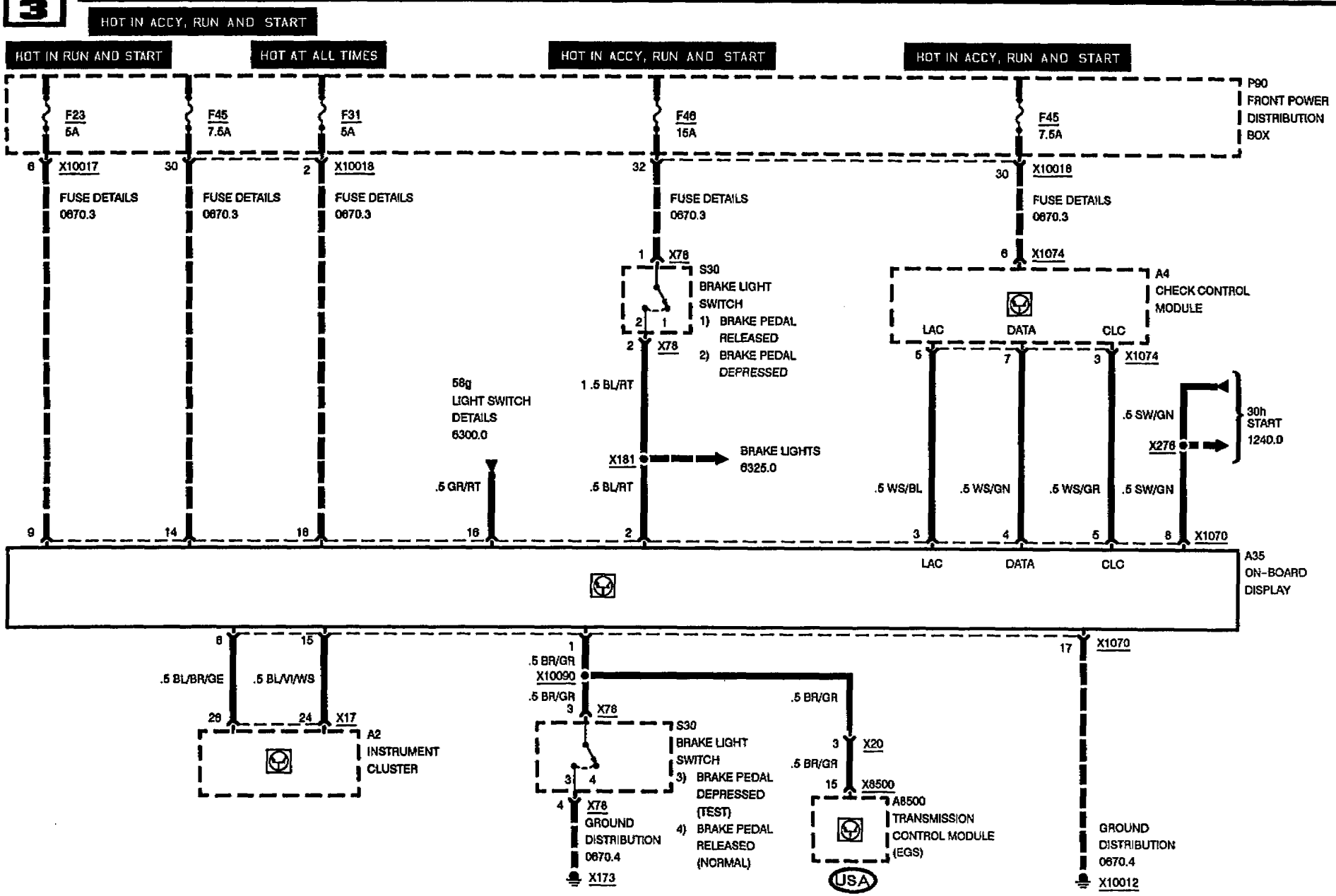


MULTI-FUNCTION CLOCK

CHIME, BRAKE LIGHT SWITCH

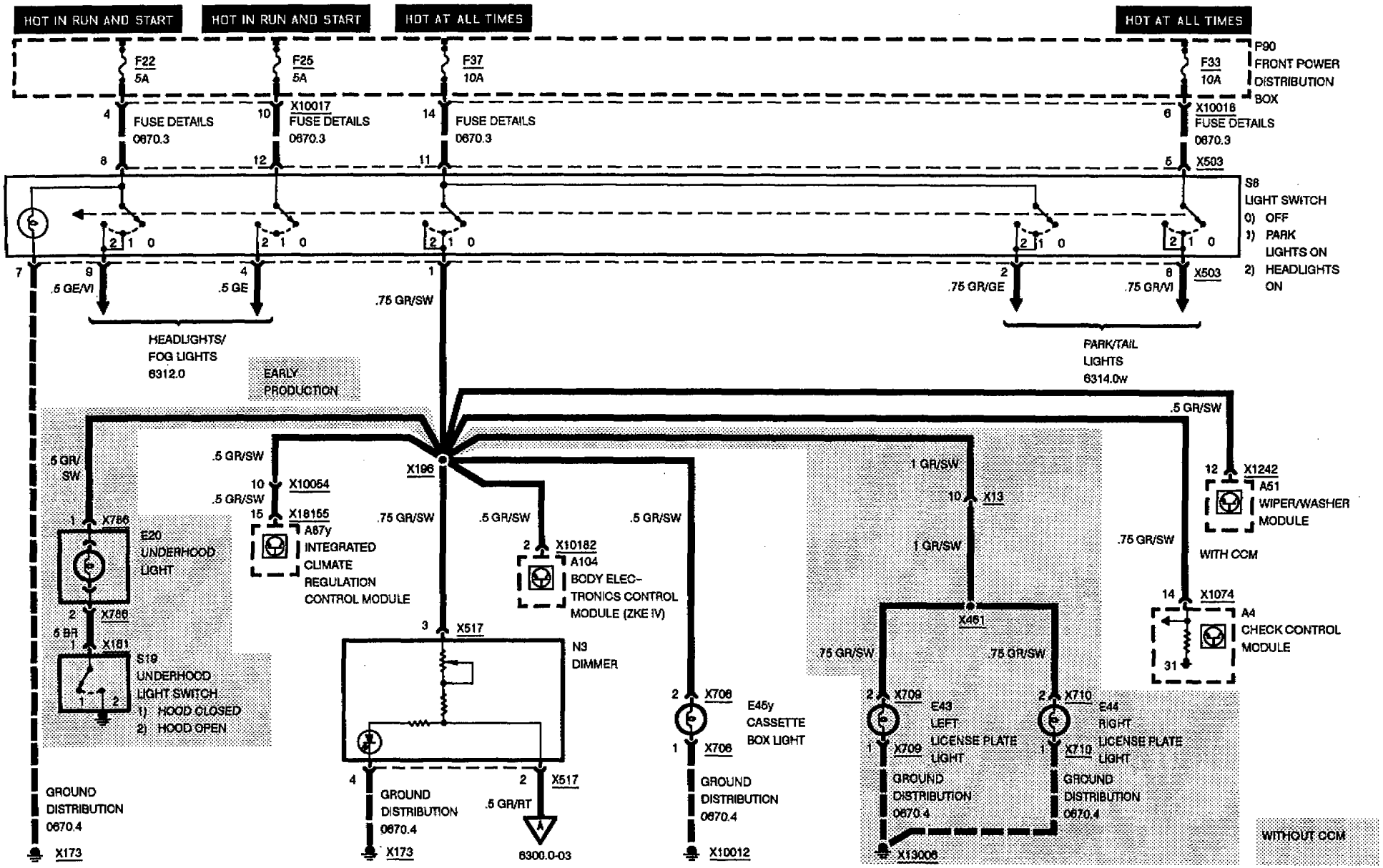


ON-BOARD DISPLAY

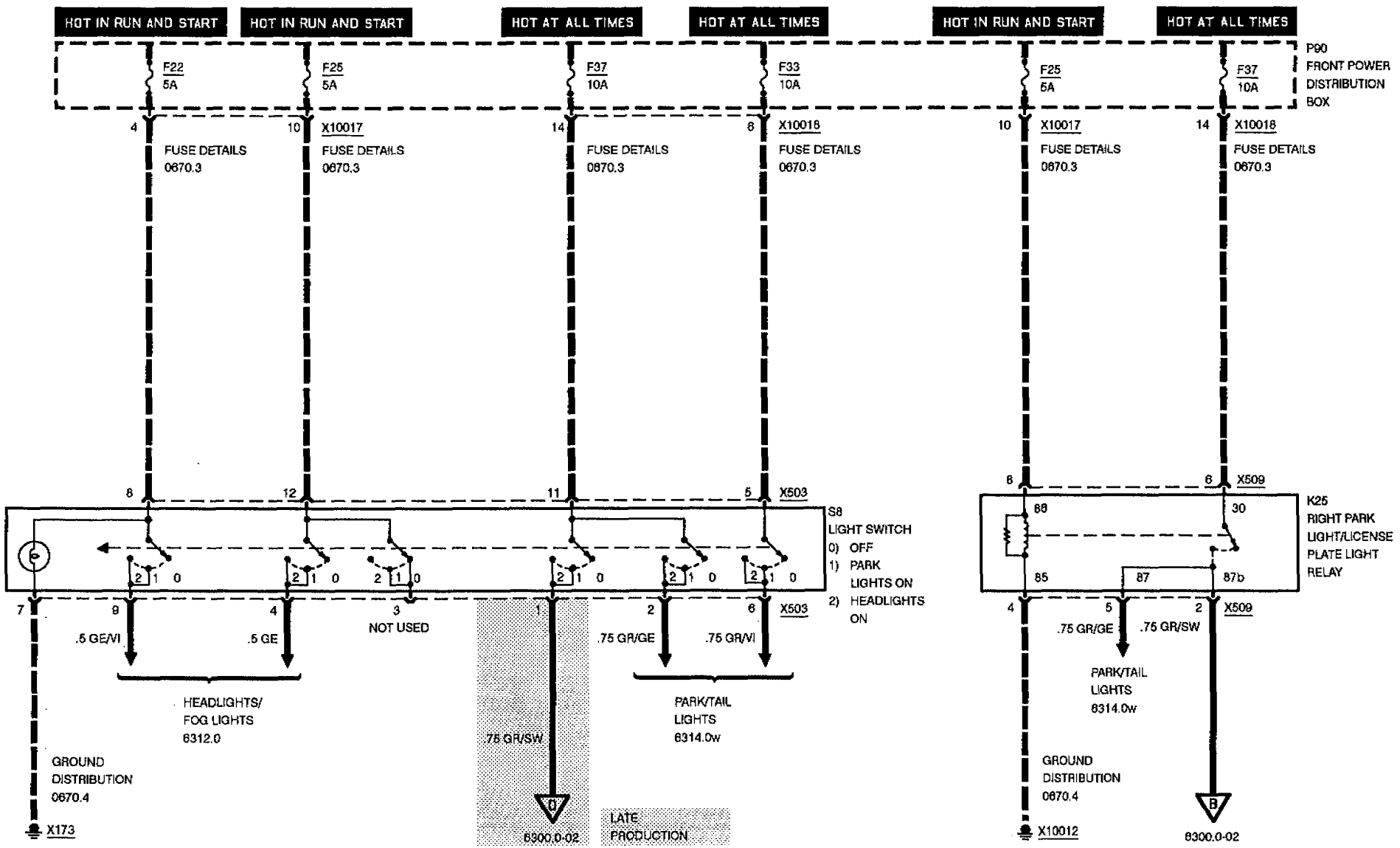


LIGHT SWITCH DETAILS

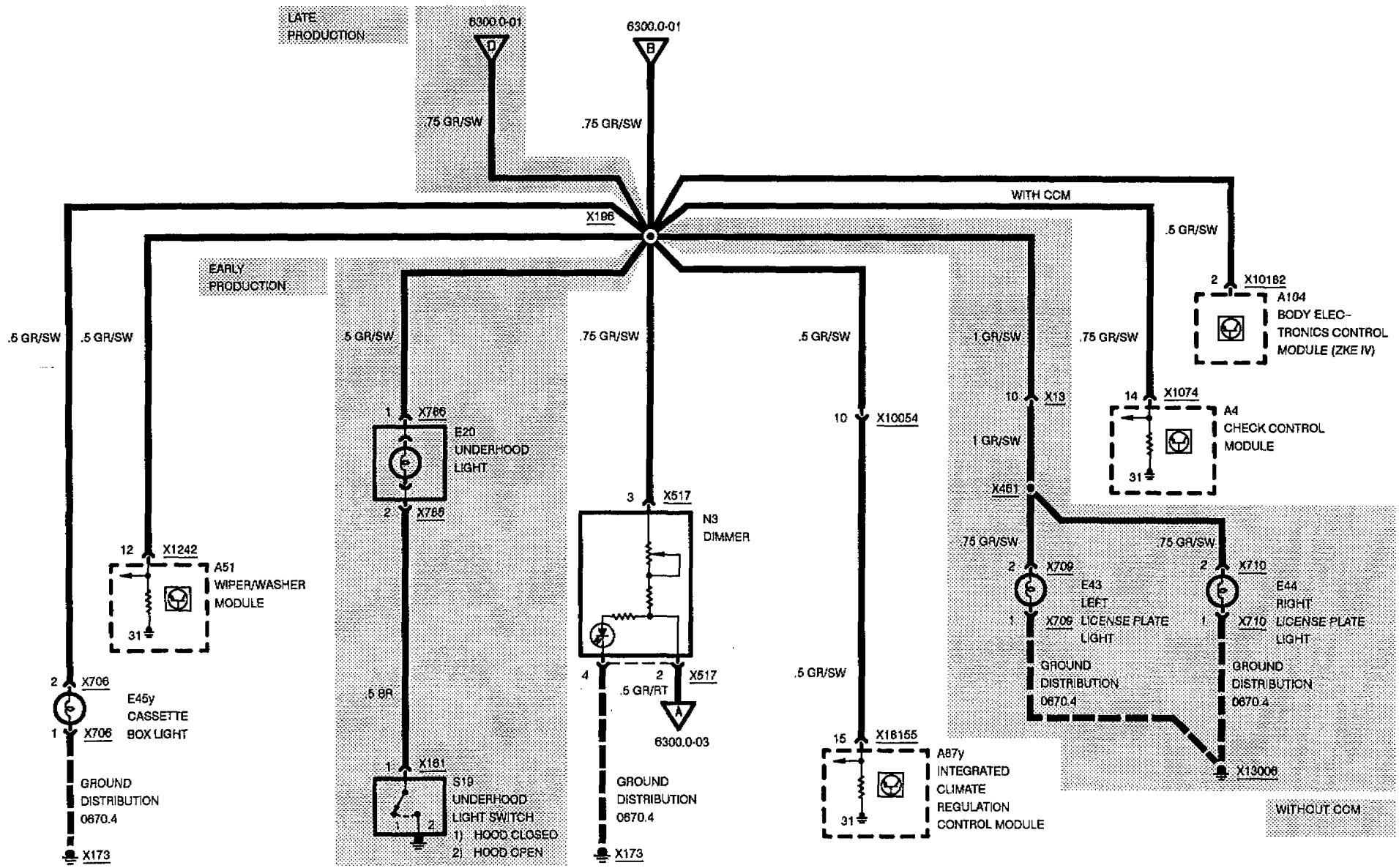
USA



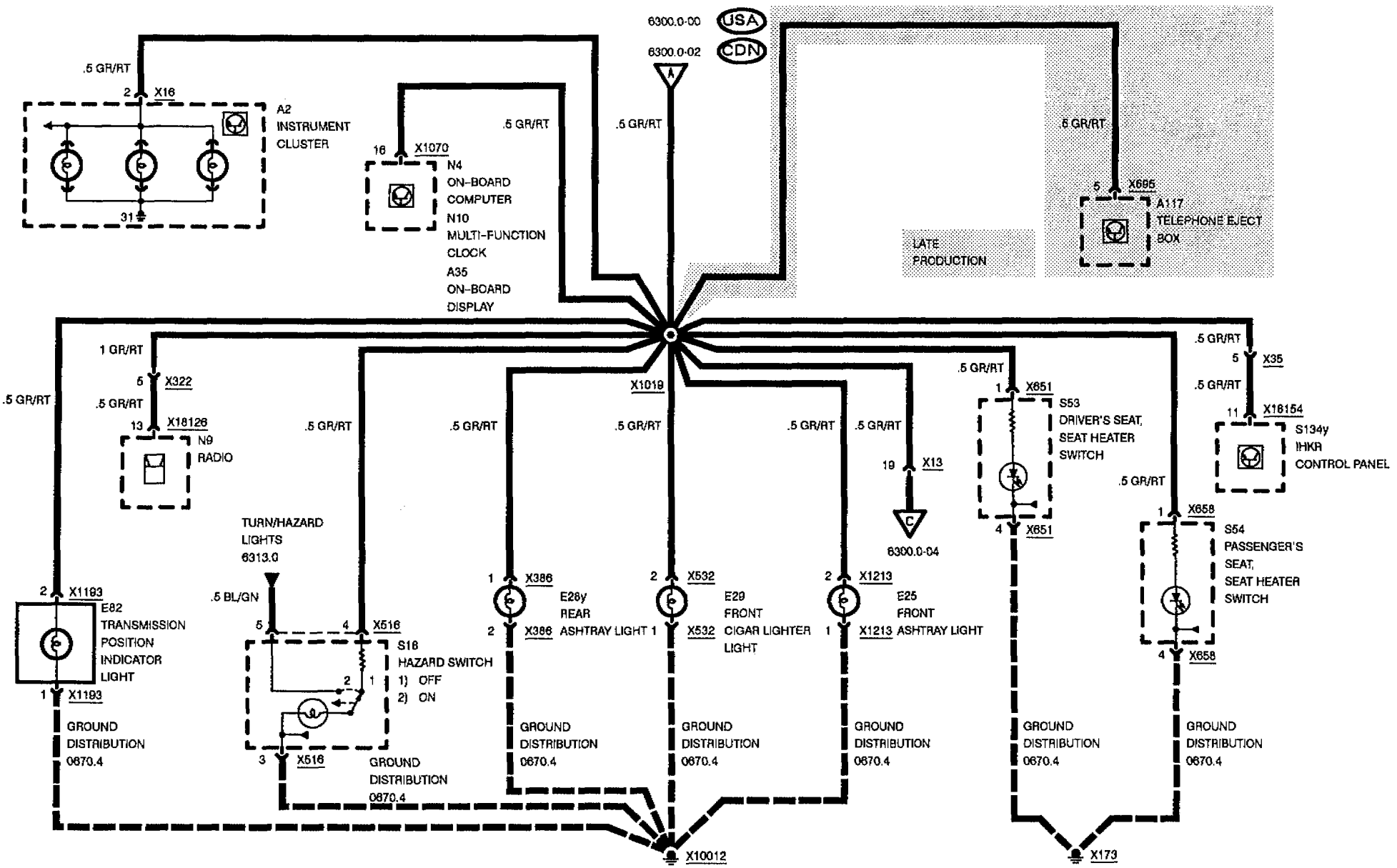
LIGHT SWITCH DETAILS



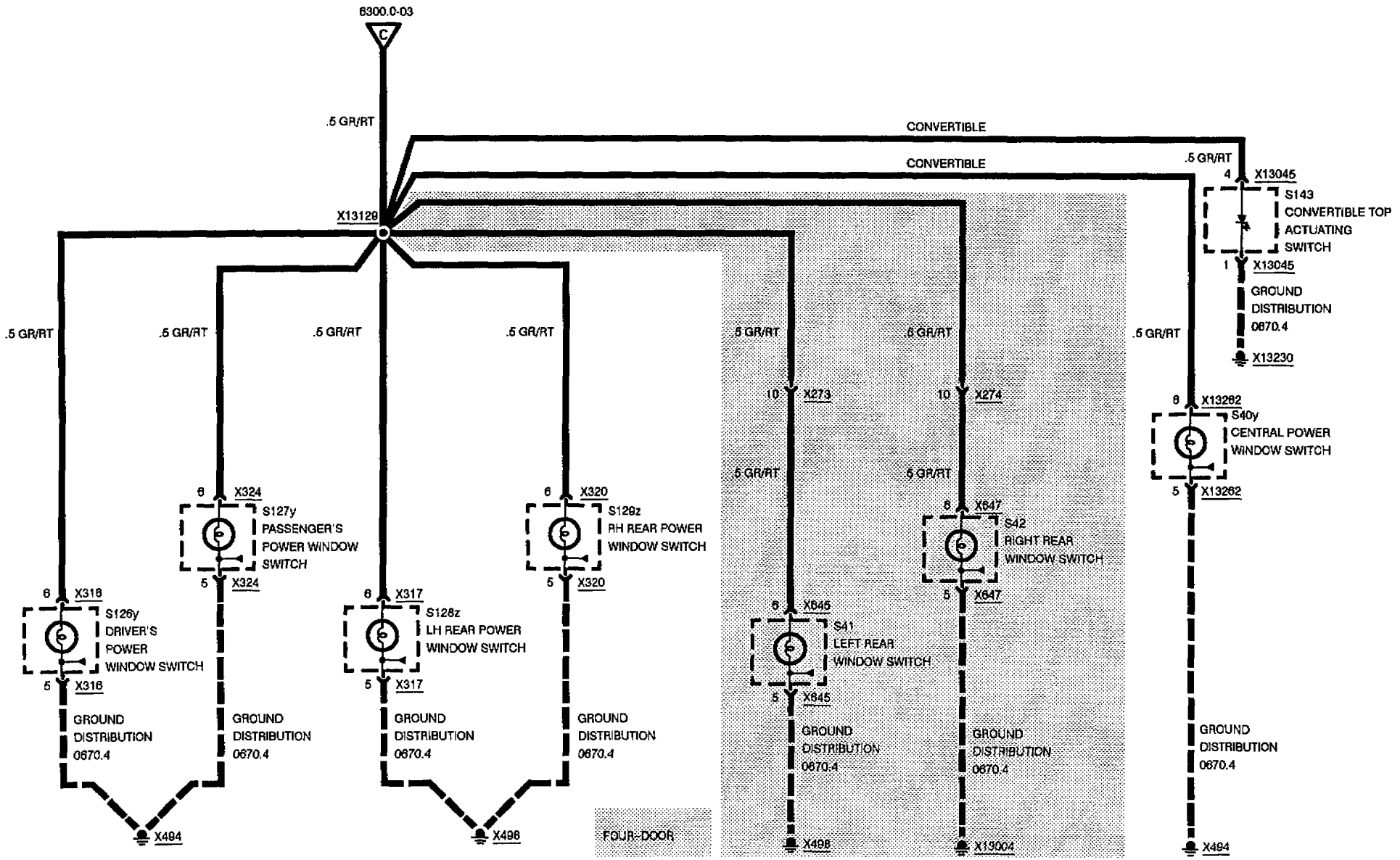
LIGHT SWITCH DETAILS



LIGHT SWITCH DETAILS

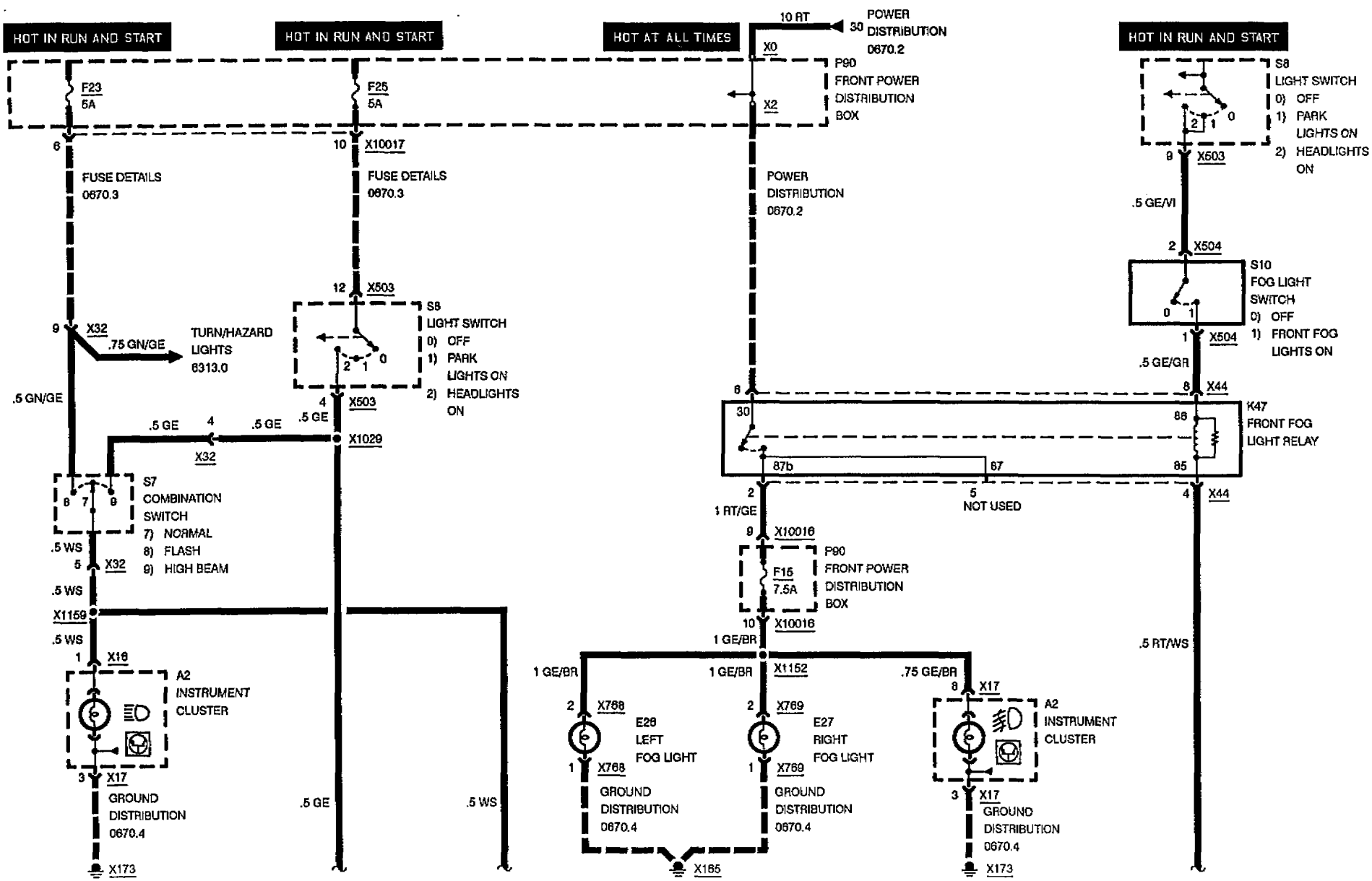


LIGHT SWITCH DETAILS

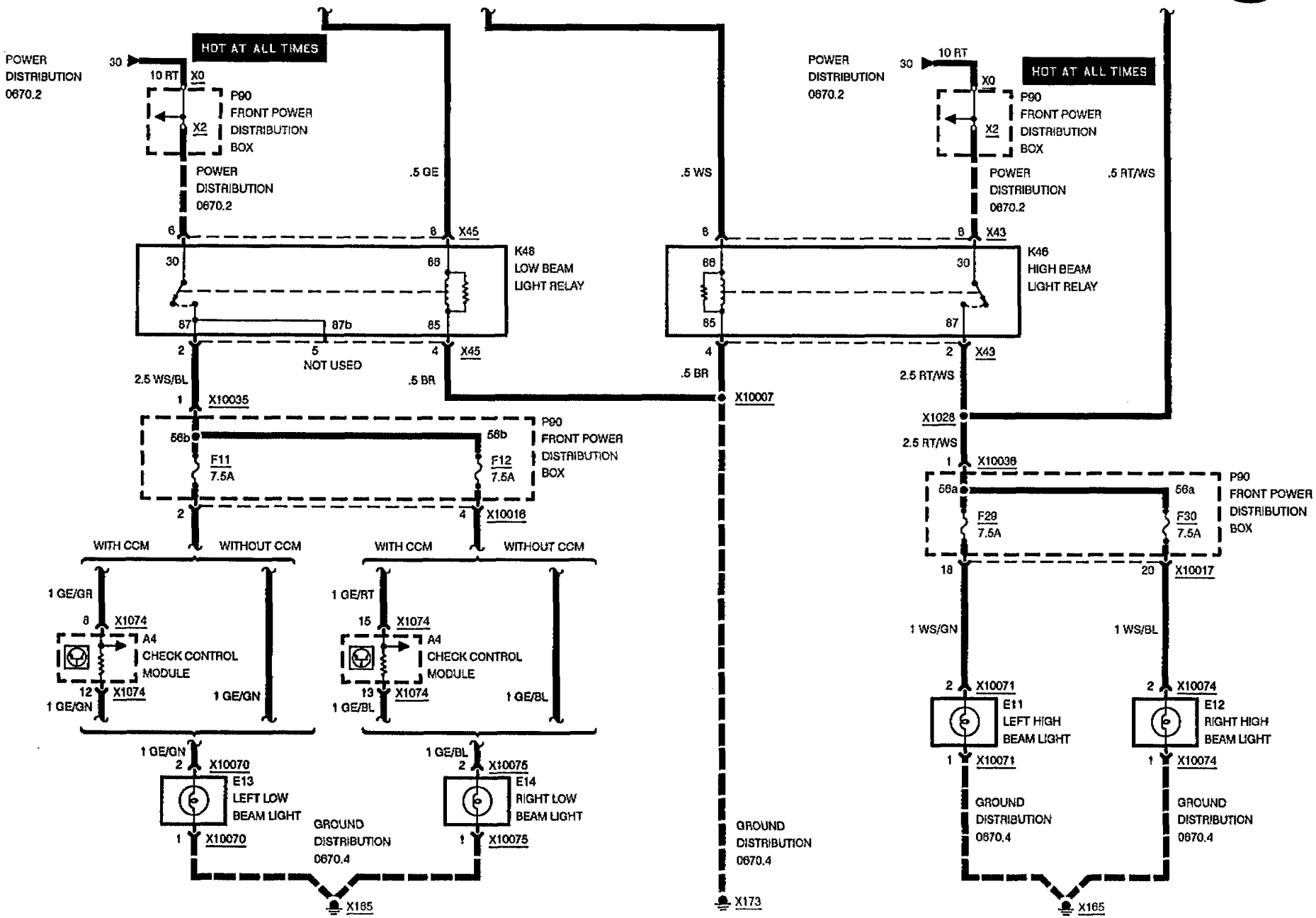


HEADLIGHTS/ FOG LIGHTS

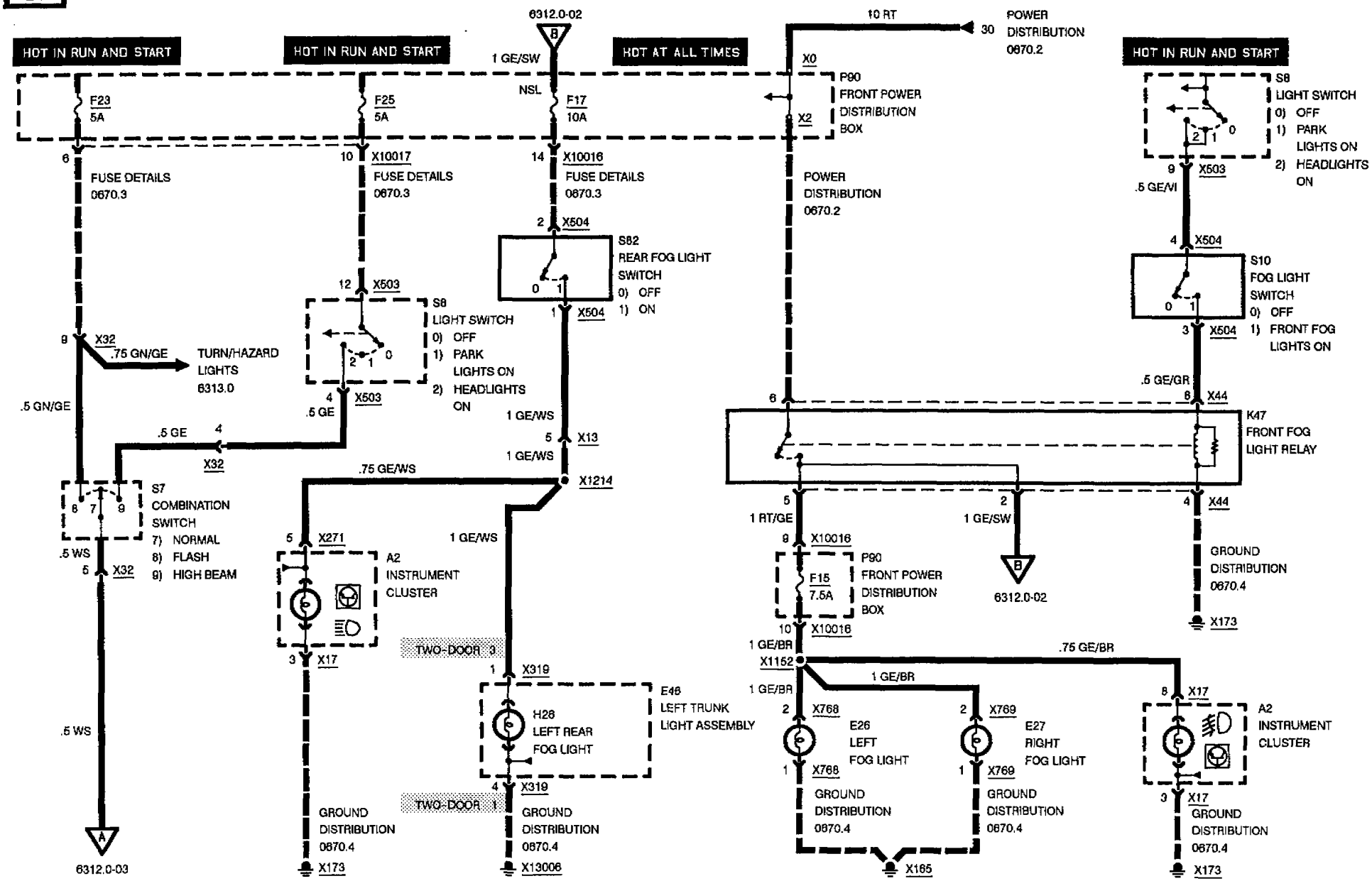
USA



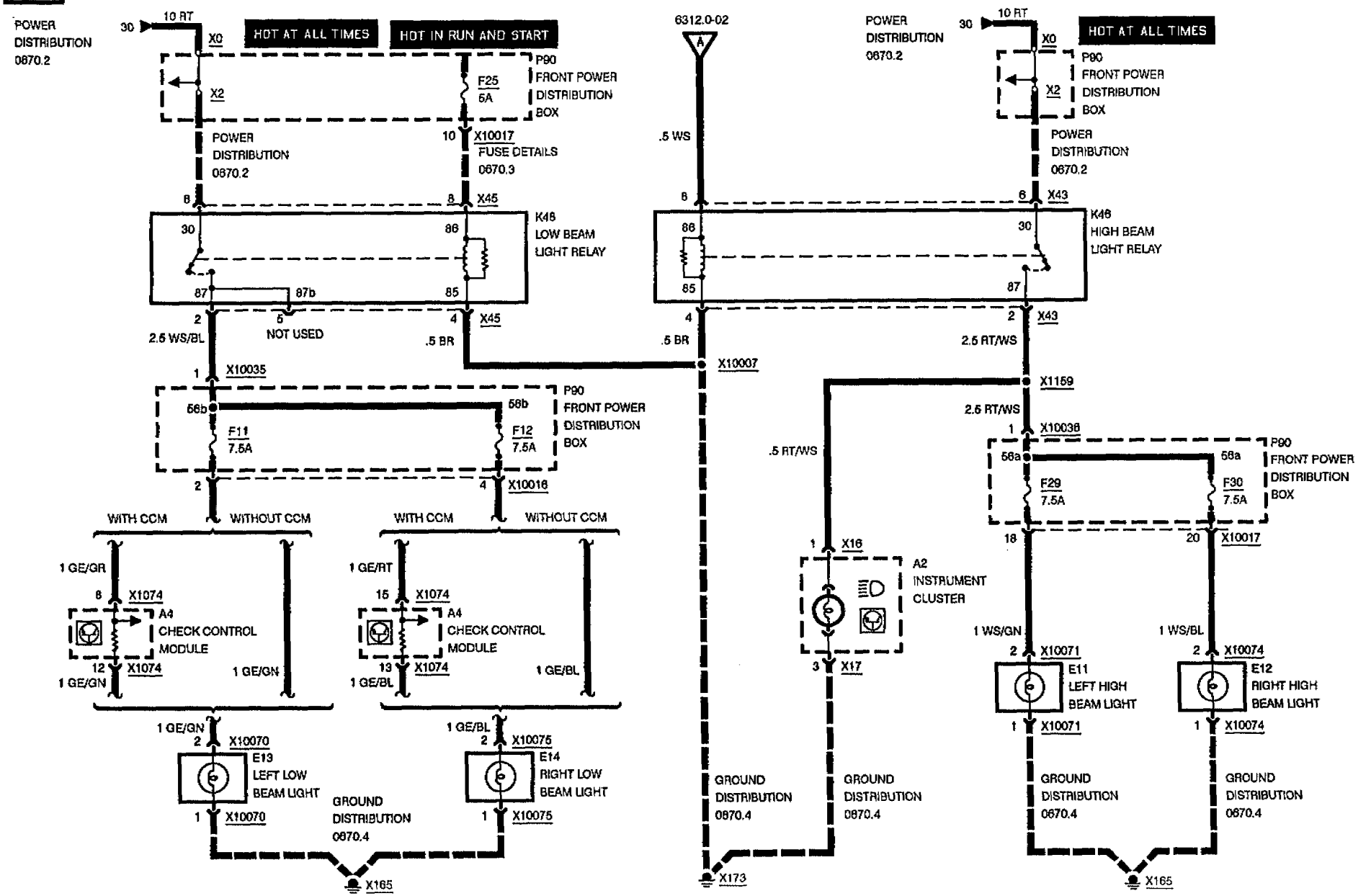
USA


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

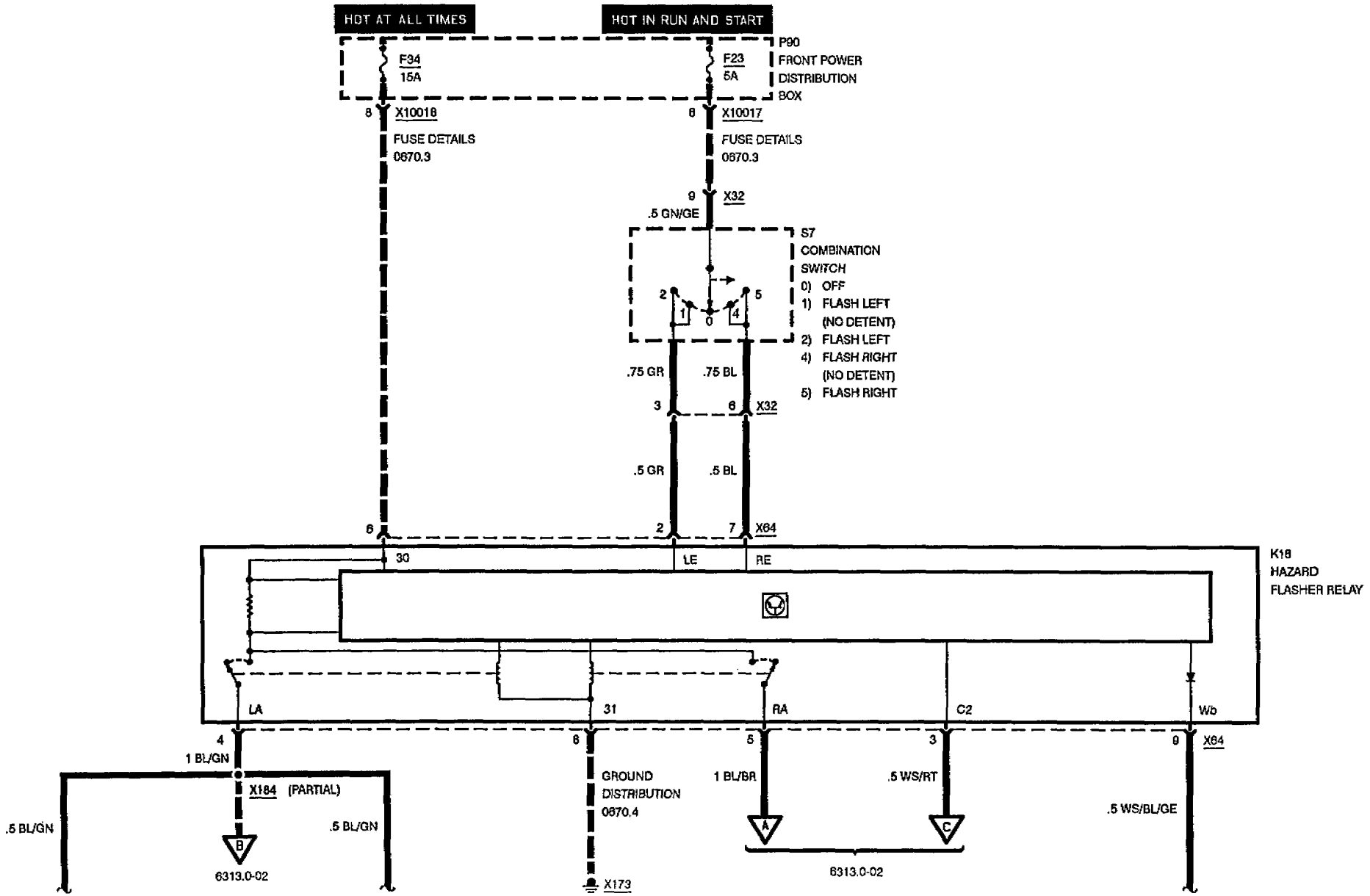
HEADLIGHTS/ FOG LIGHTS

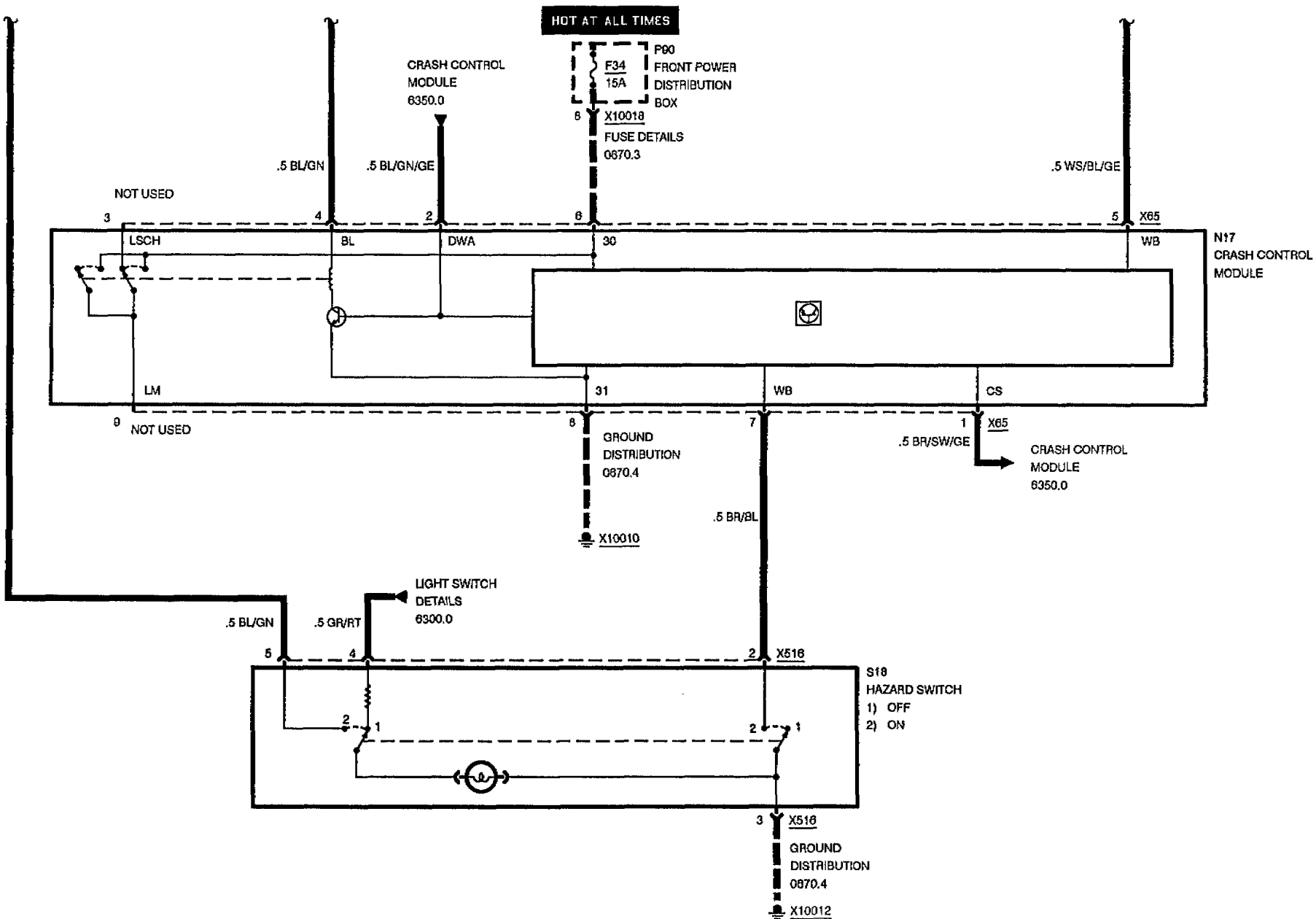


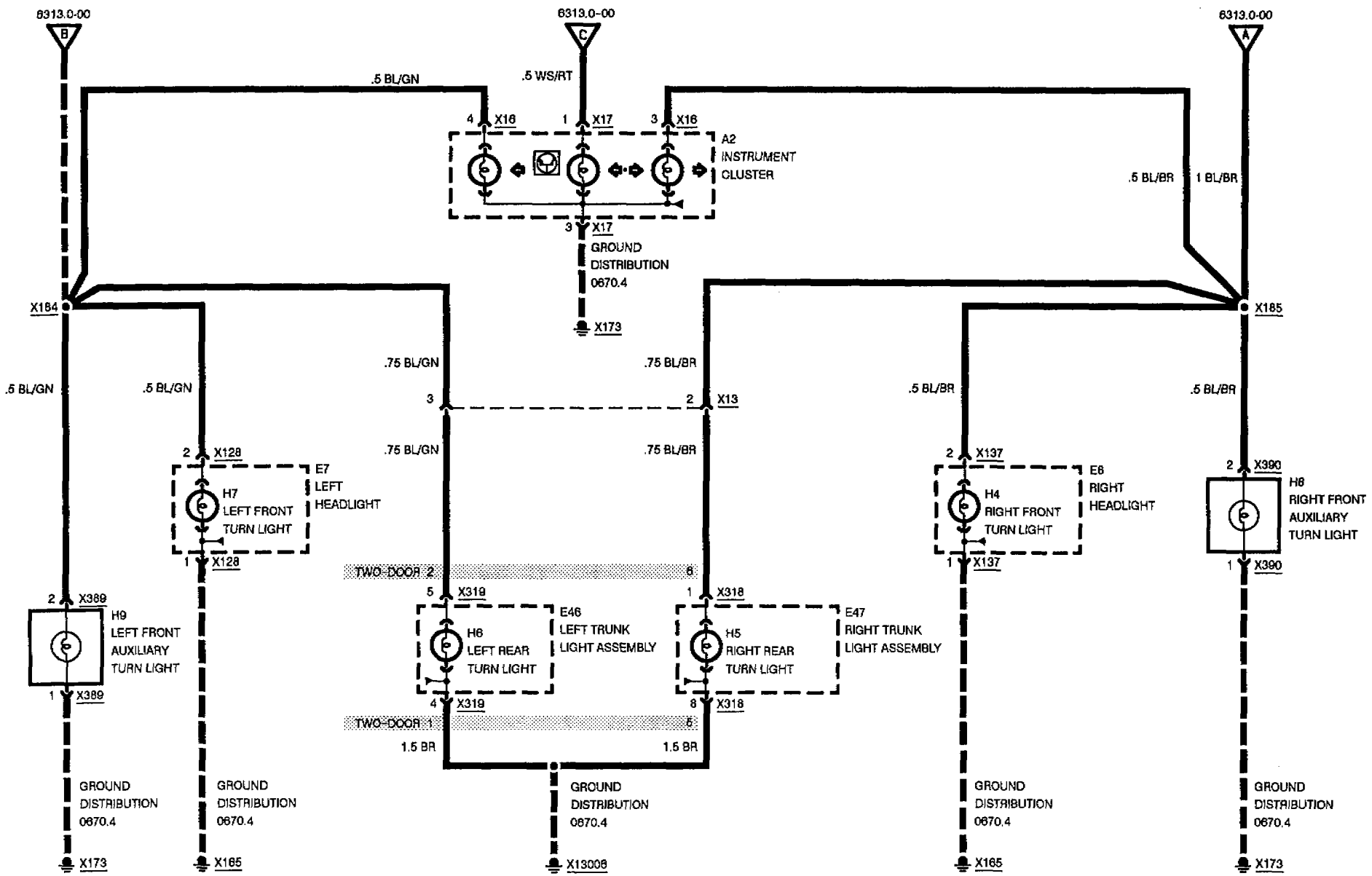
HEADLIGHTS/ FOG LIGHTS



TURN/HAZARD LIGHTS

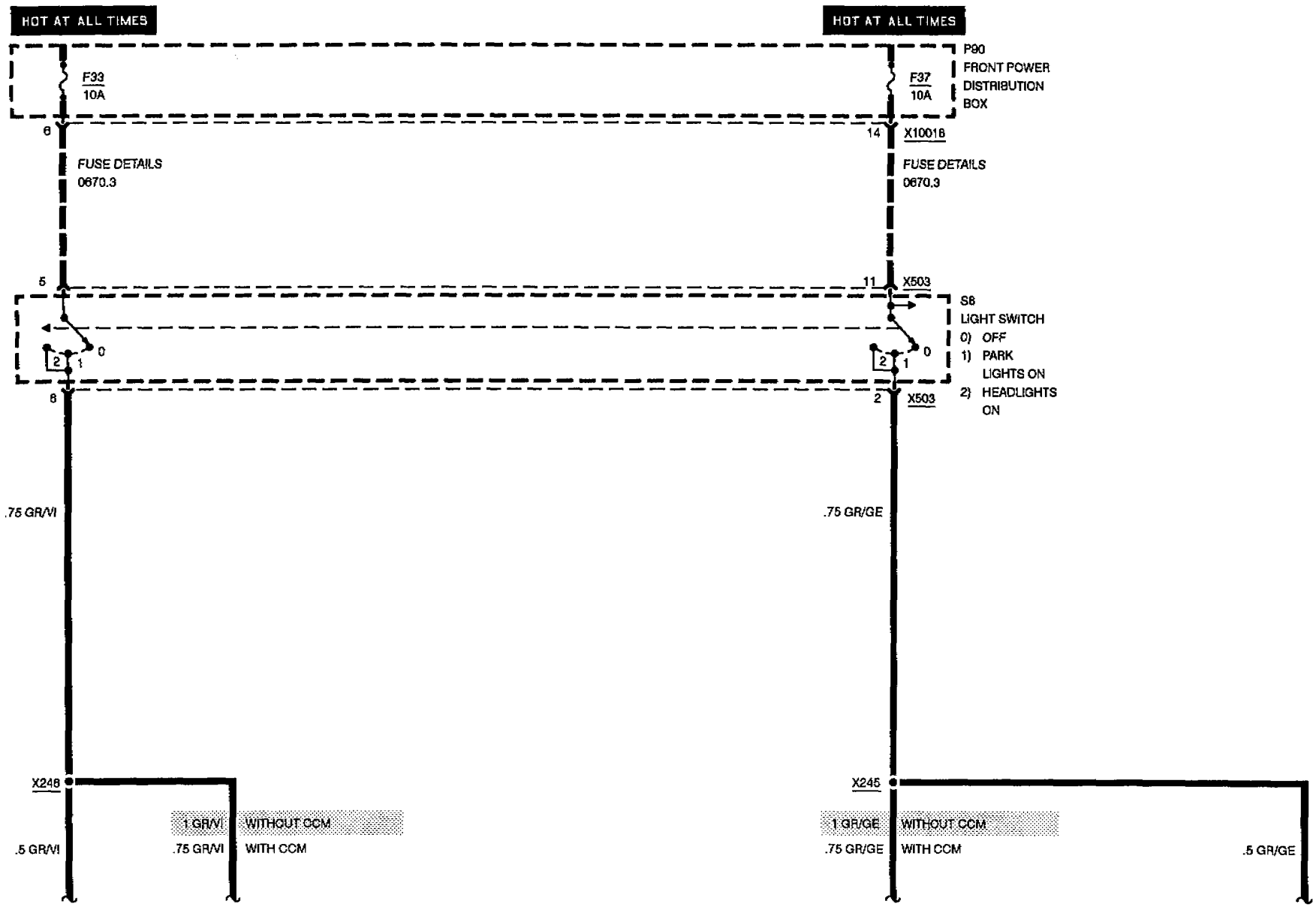


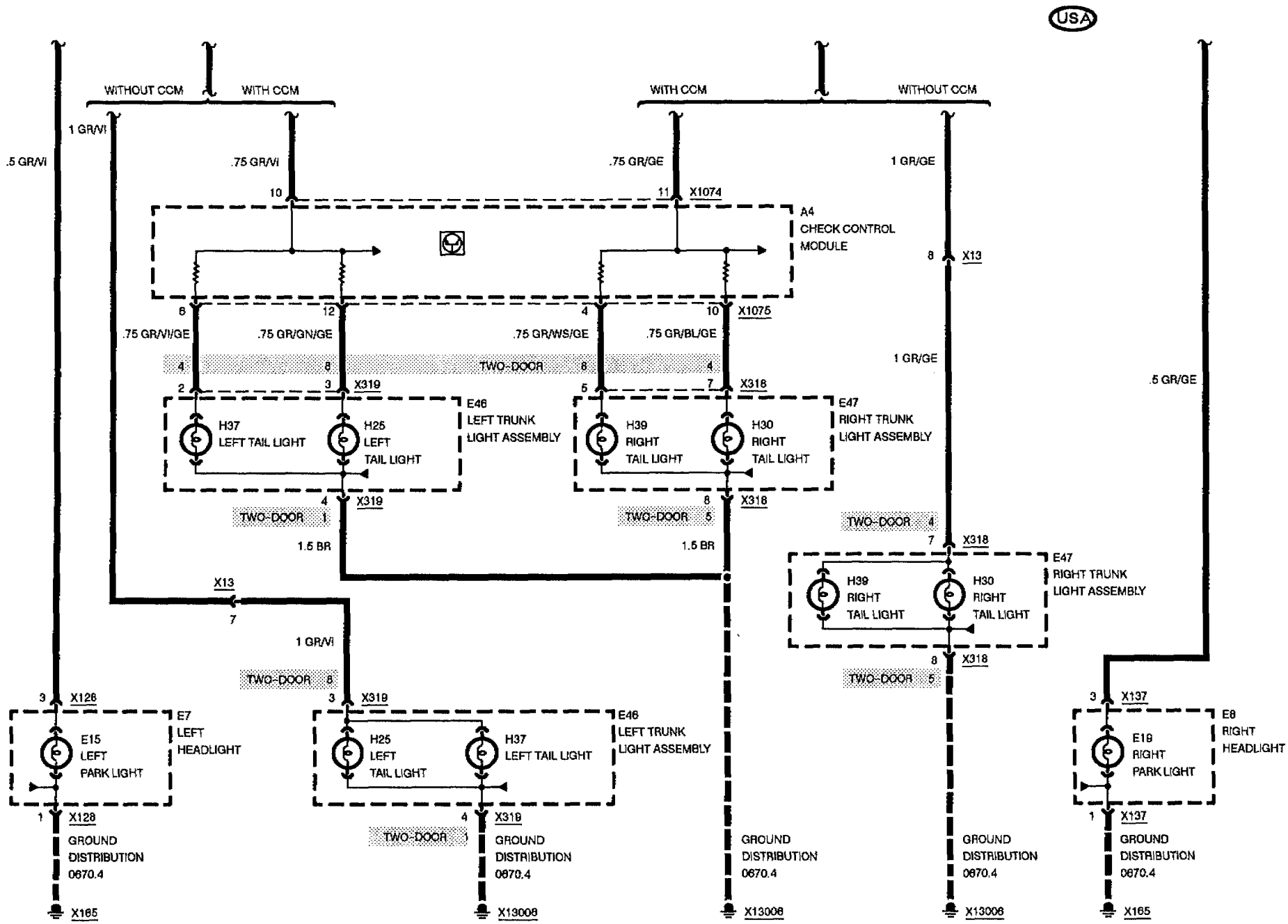

HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F34
15A
8
X10018
FUSE DETAILS
0670.3
CRASH CONTROL
MODULE
6350.0
.5 BL/GN
.5 BL/GN/GE
.5 WS/BL/GE
NOT USED
3
4
2
6
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
.5 BR/SW/GE
GROUND
DISTRIBUTION
0670.4
CRASH CONTROL
MODULE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


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

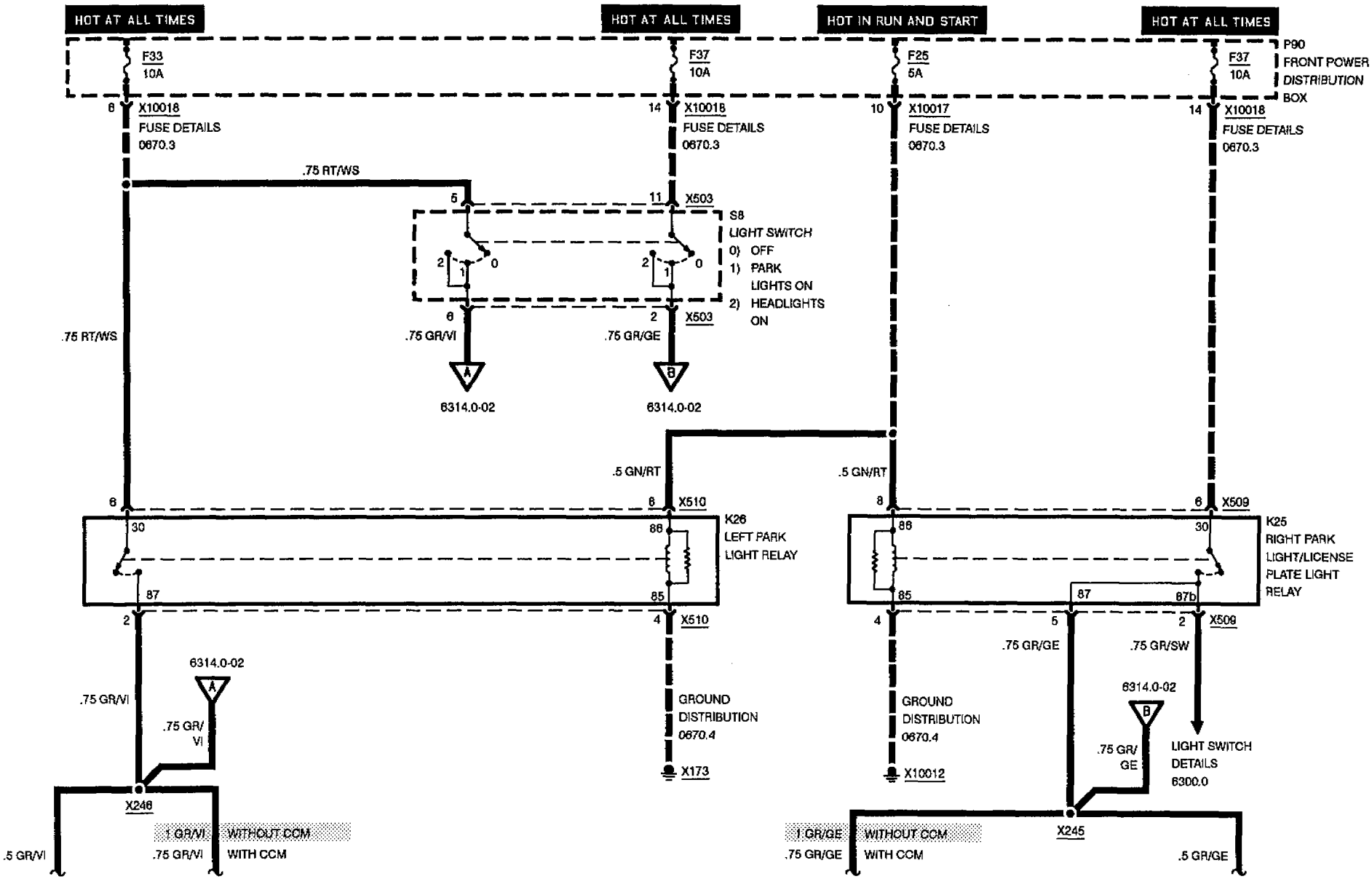
PARK/TAIL LIGHTS

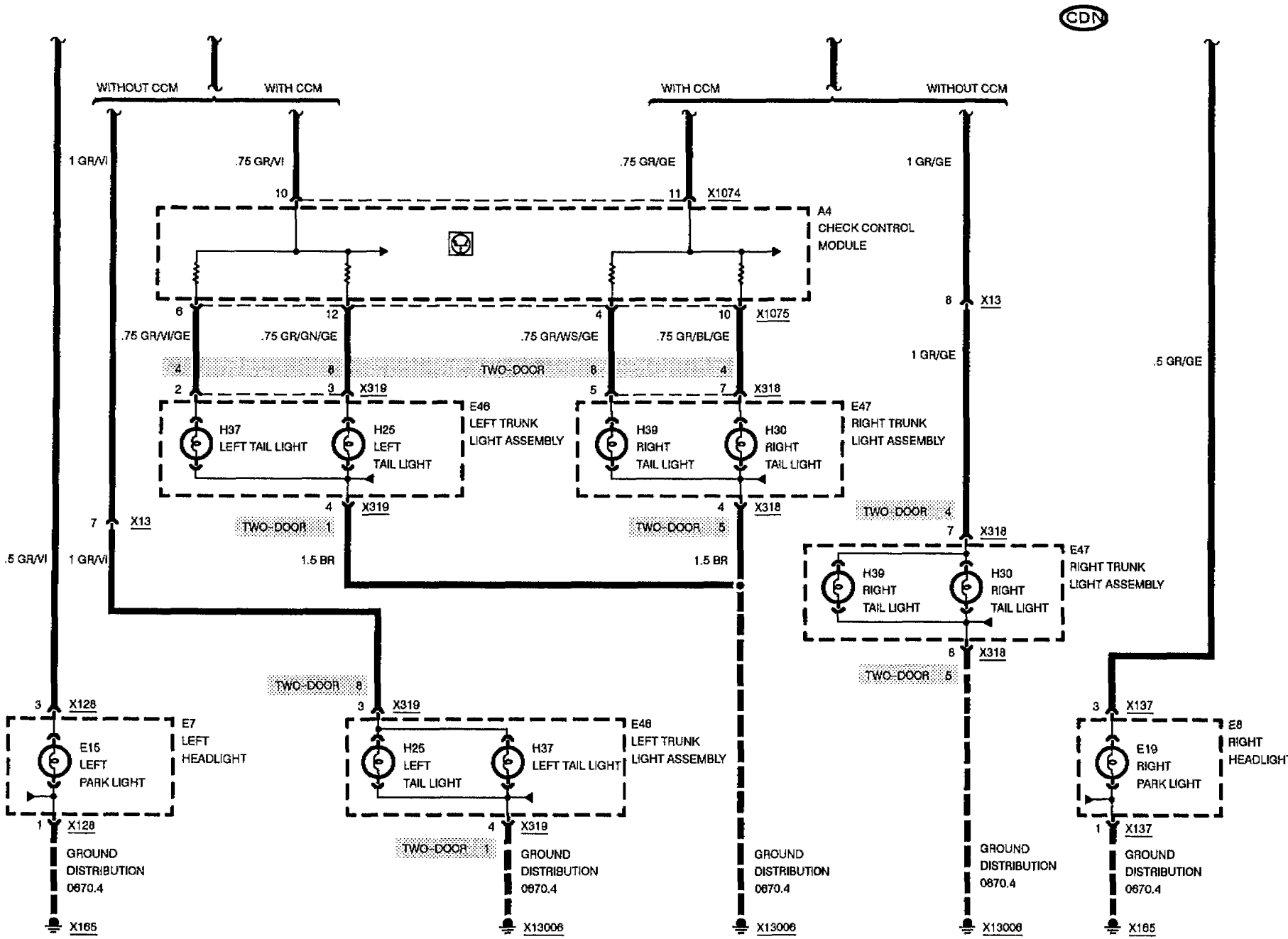
USA



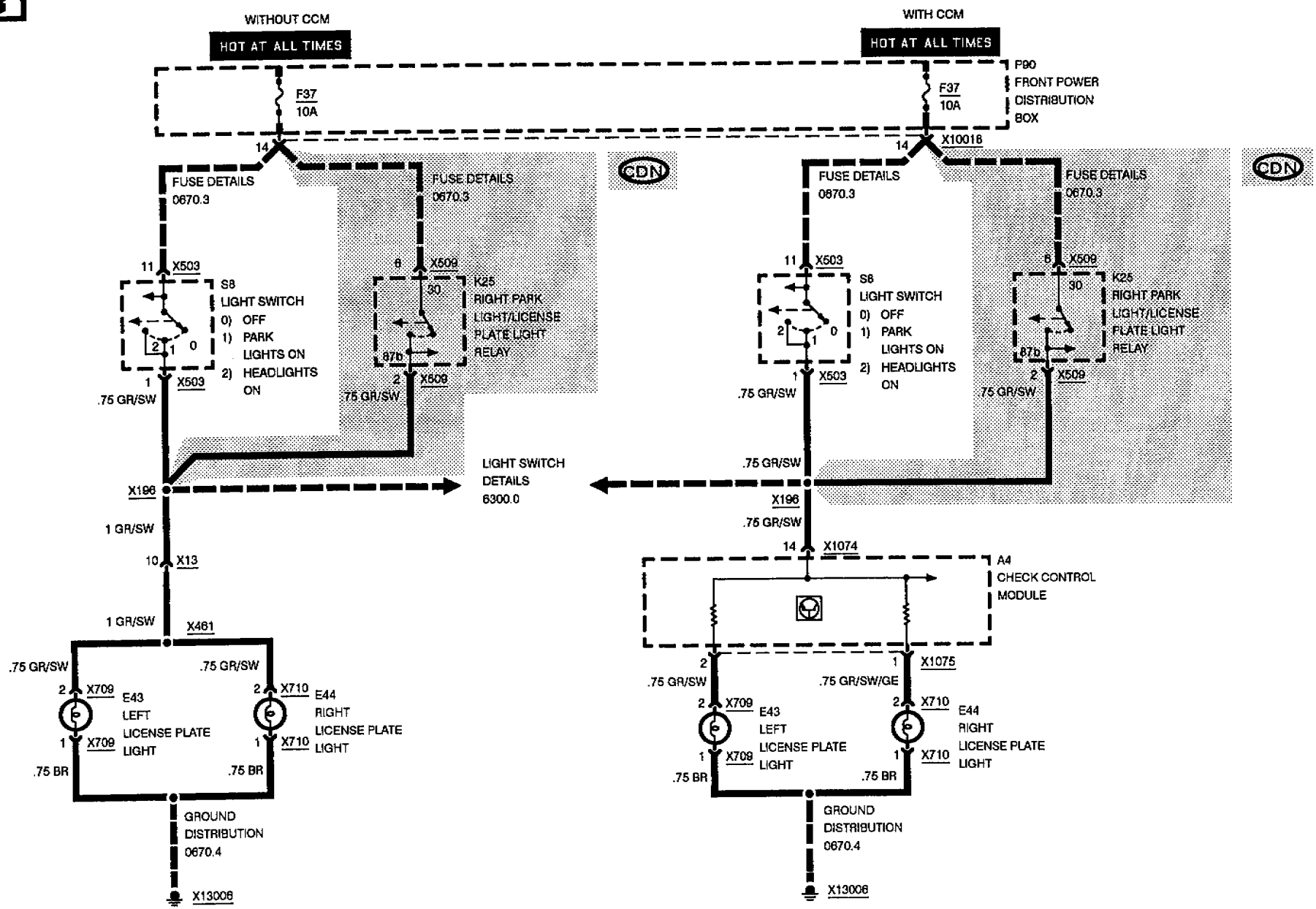

USA
WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
.5 GR/VI
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
10
11 X1074
A4
CHECK CONTROL
MODULE
8 X13
6
12
4
10 X1075
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
1 GR/GE
.5 GR/GE
TWO-DOOR
2
3 X319
5
7 X318
E46
LEFT TRUNK
LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT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

PARK/TAIL LIGHTS

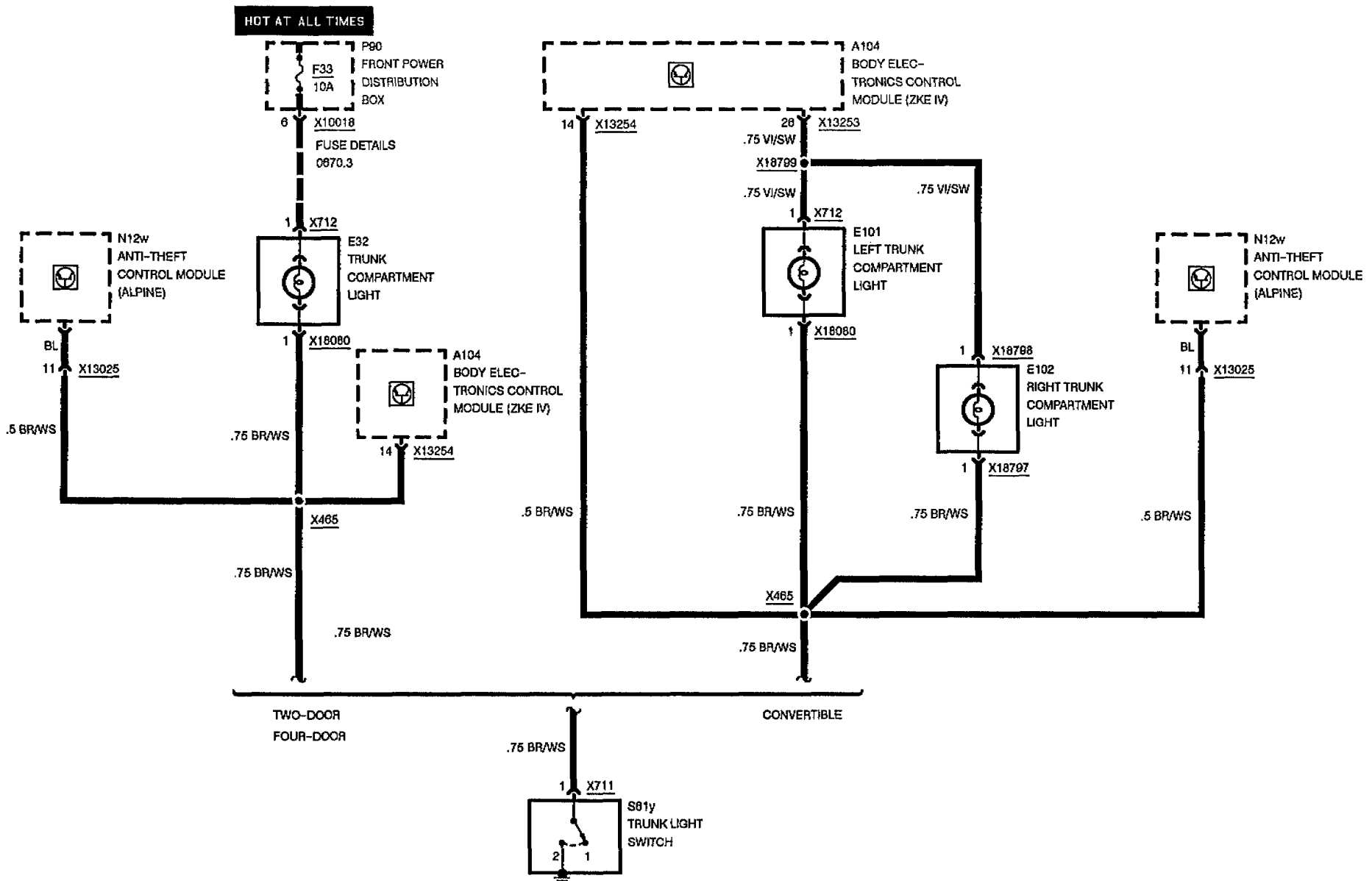



CDN
WITHOUT CCM
WITH CCM
WITH CCM
WITHOUT CCM
1 GR/VI
.75 GR/VI
.75 GR/GE
1 GR/GE
10
11
X1074
A4
CHECK CONTROL
MODULE
6
12
4
10
X1075
8
X13
.75 GR/VI/GE
.75 GR/GN/GE
.75 GR/WS/GE
.75 GR/BL/GE
1 GR/GE
.5 GR/GE
TWO-DOOR
2
3
X318
5
7
X318
E46
LEFT TRUNK
LIGHT ASSEMBLY
H37
LEFT TAIL LIGHT
H25
LEFT
TAIL LIGHT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

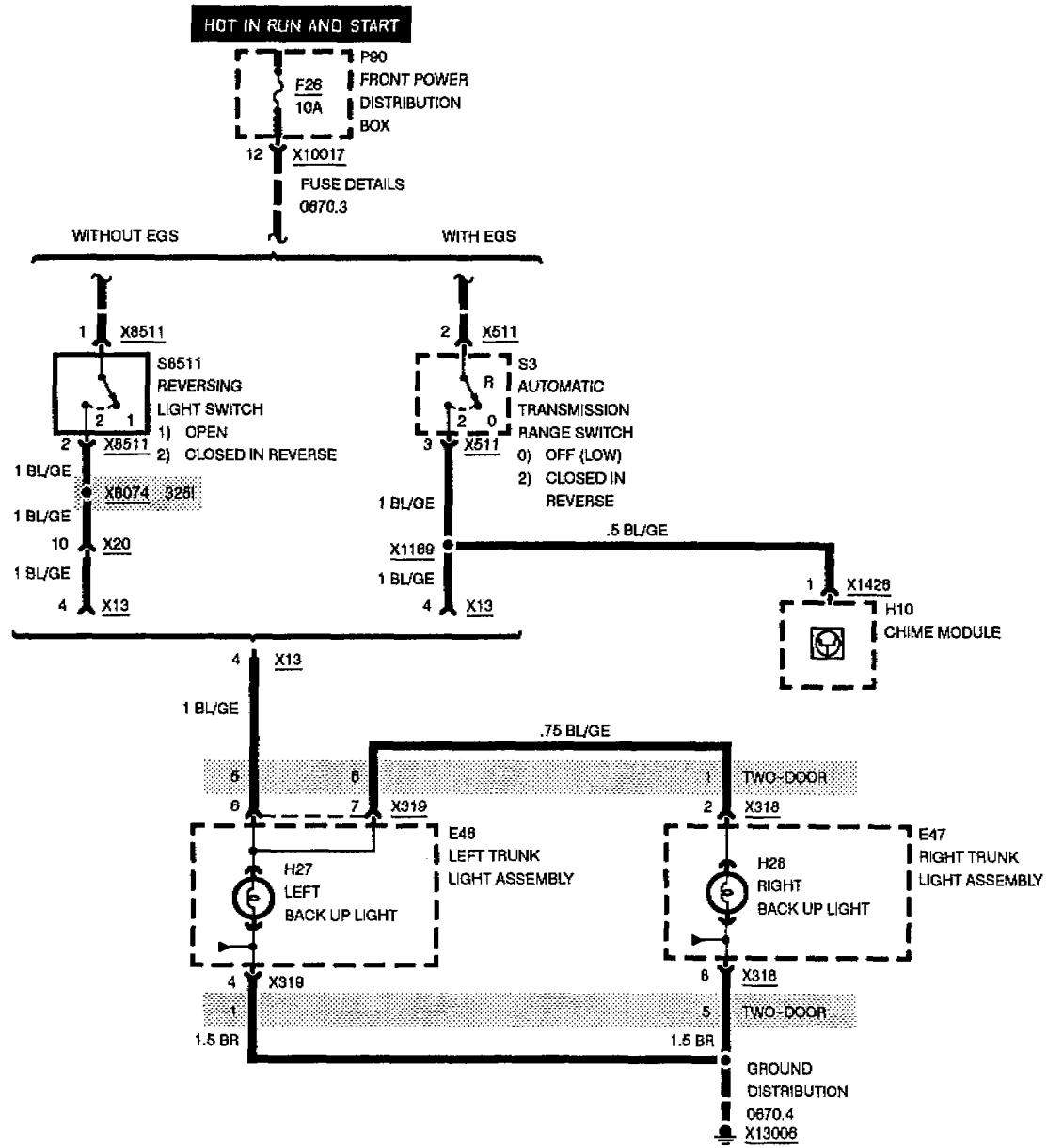
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS



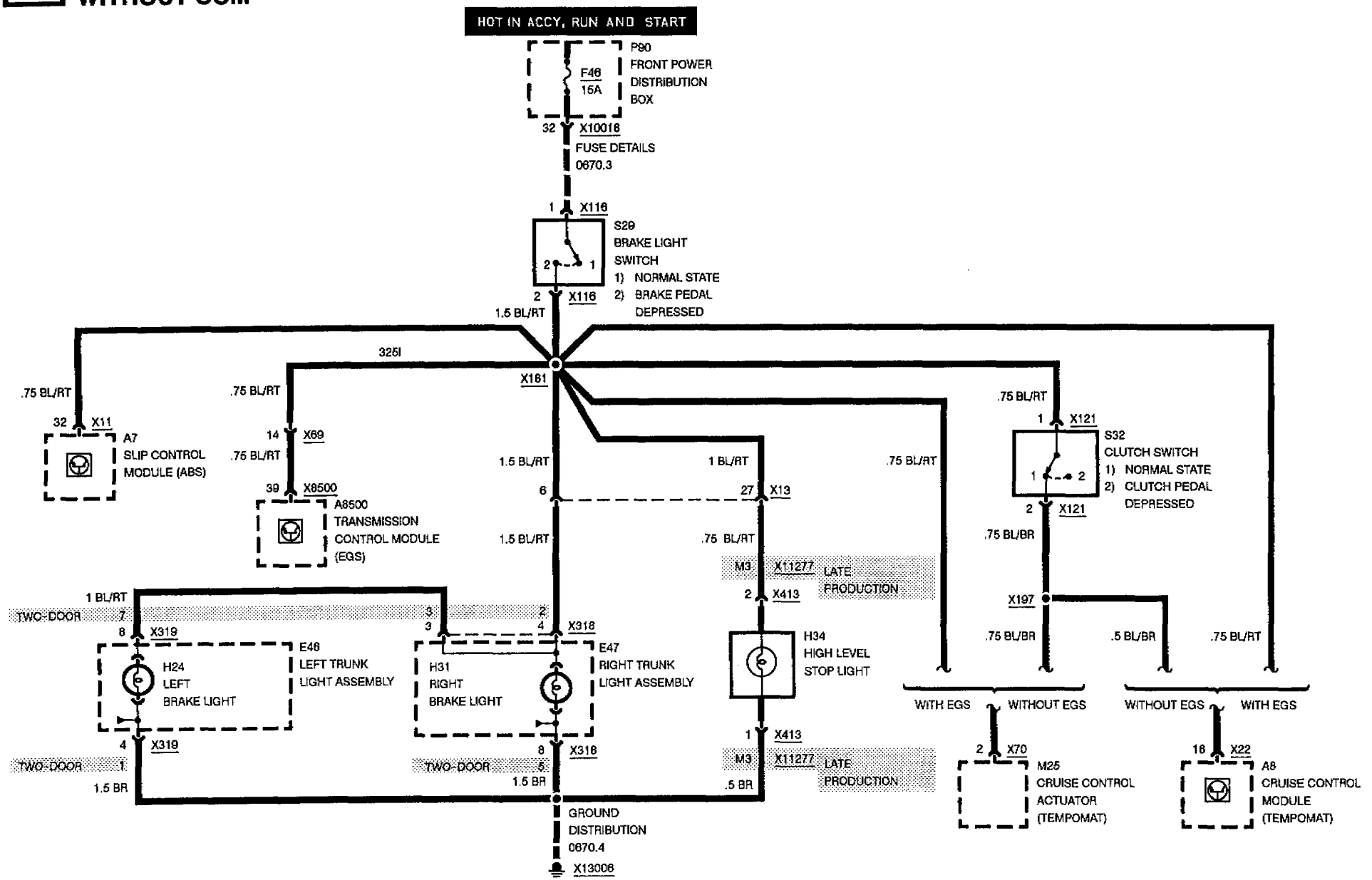
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS



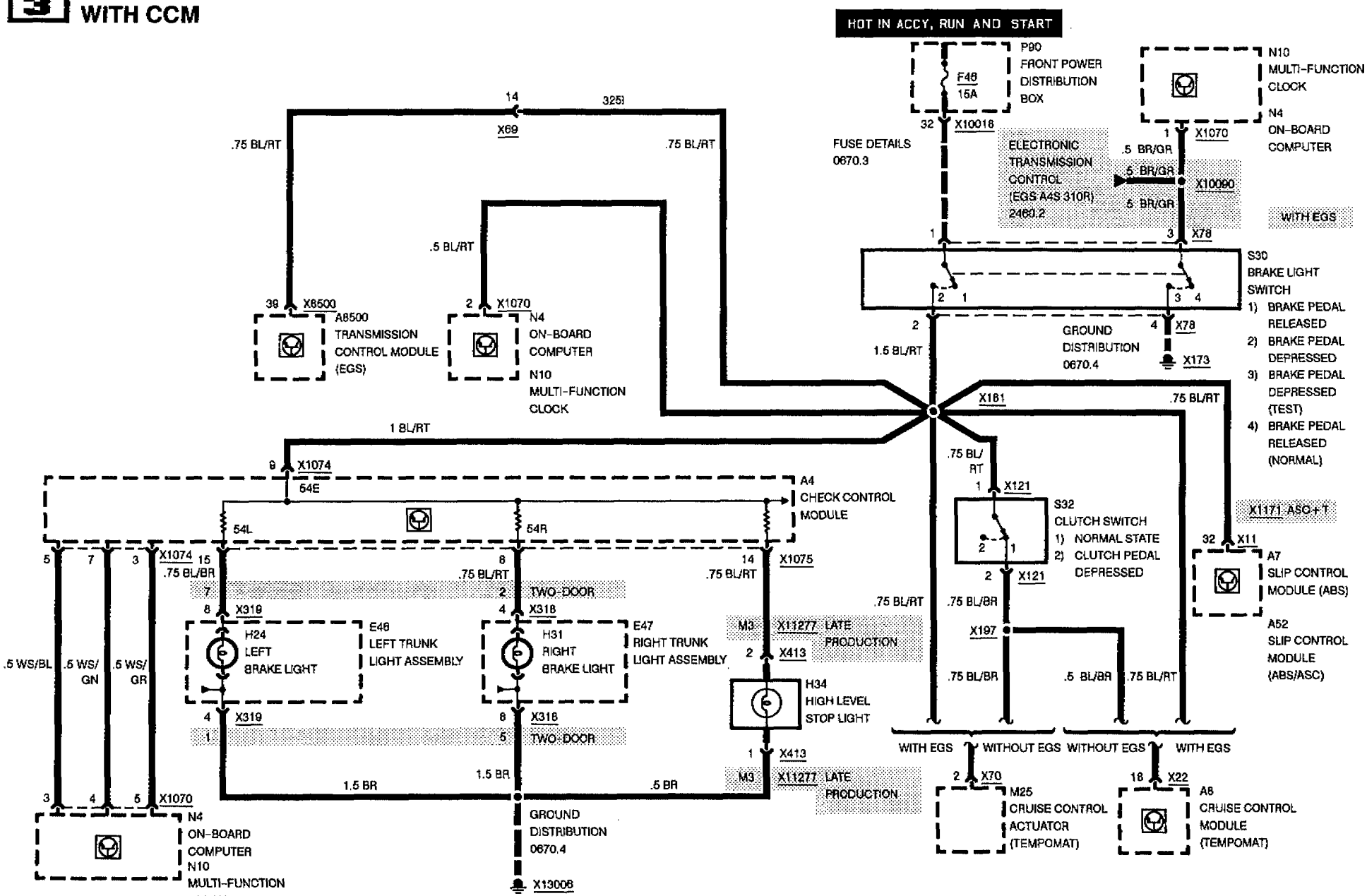
BACK UP LIGHTS

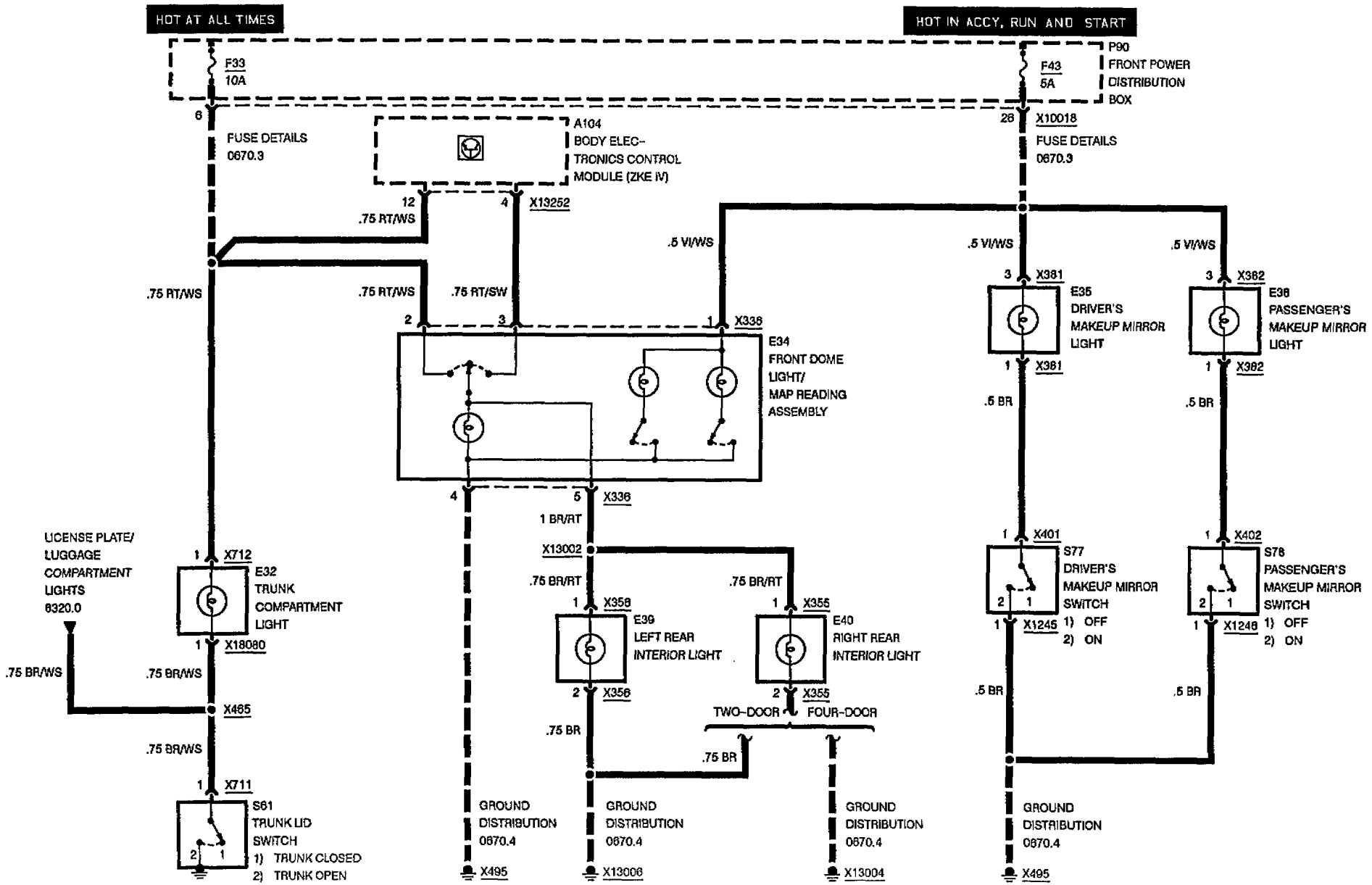


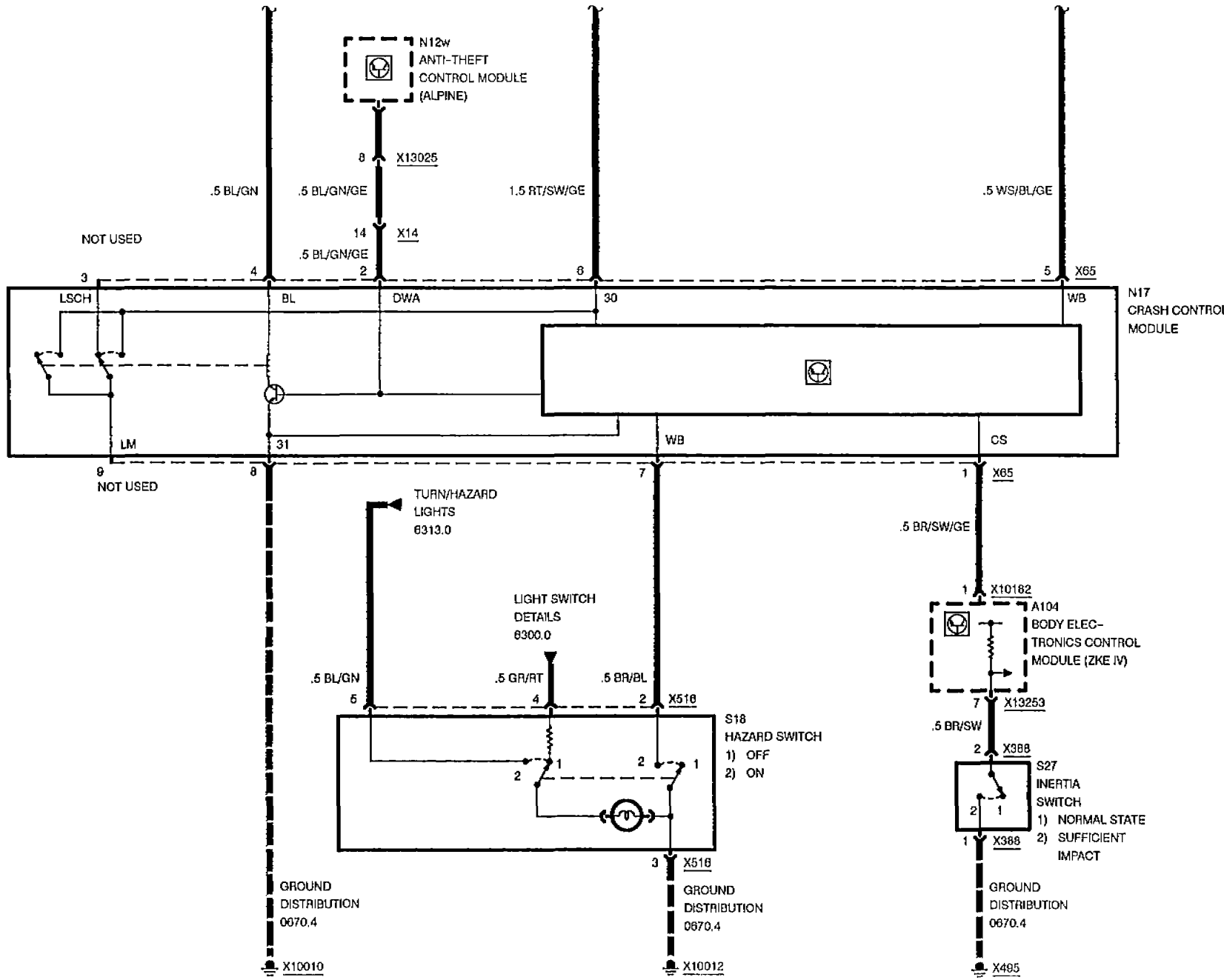
BRAKE LIGHTS
WITHOUT CCM



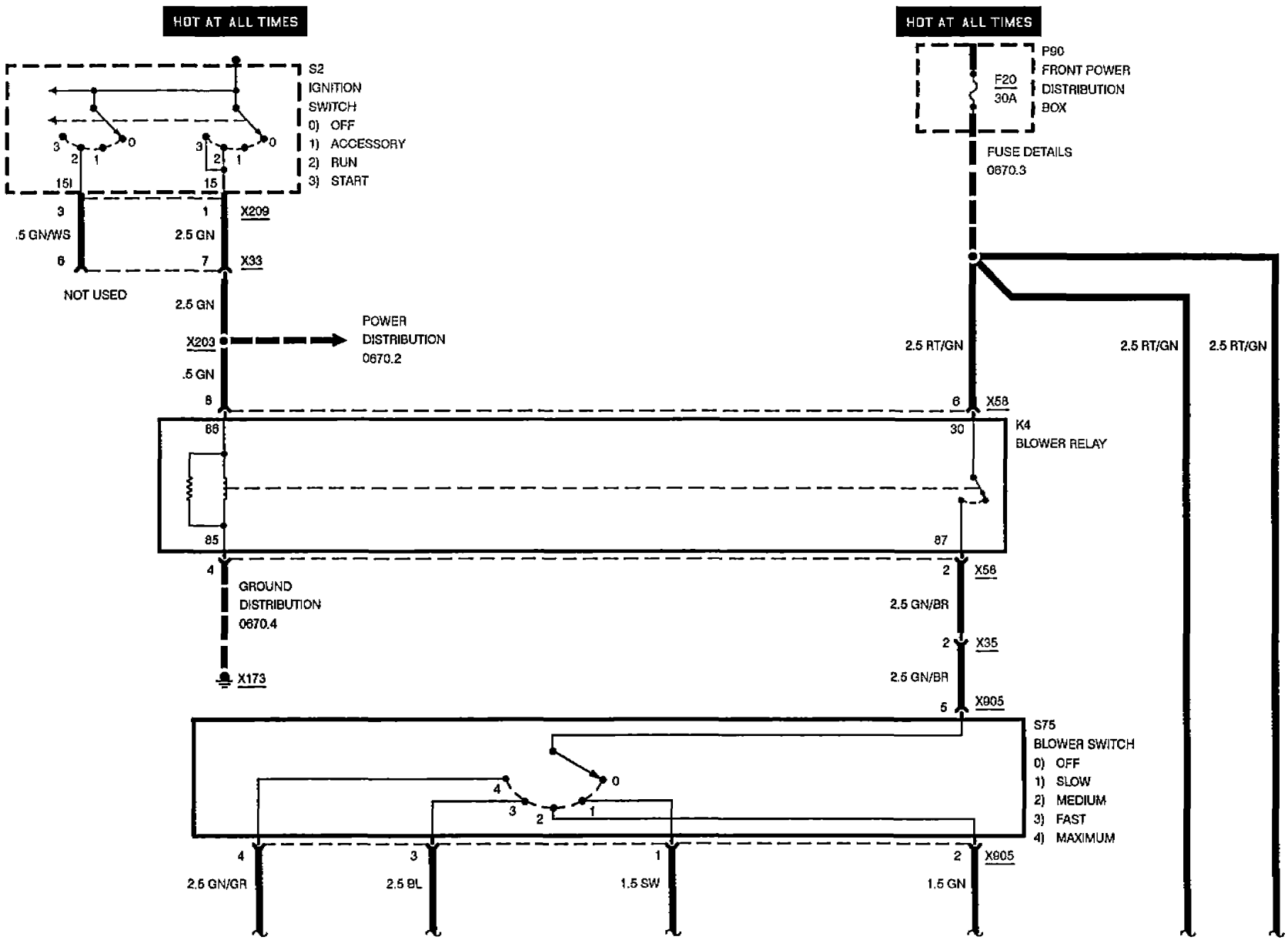
BRAKE LIGHTS
WITH CCM



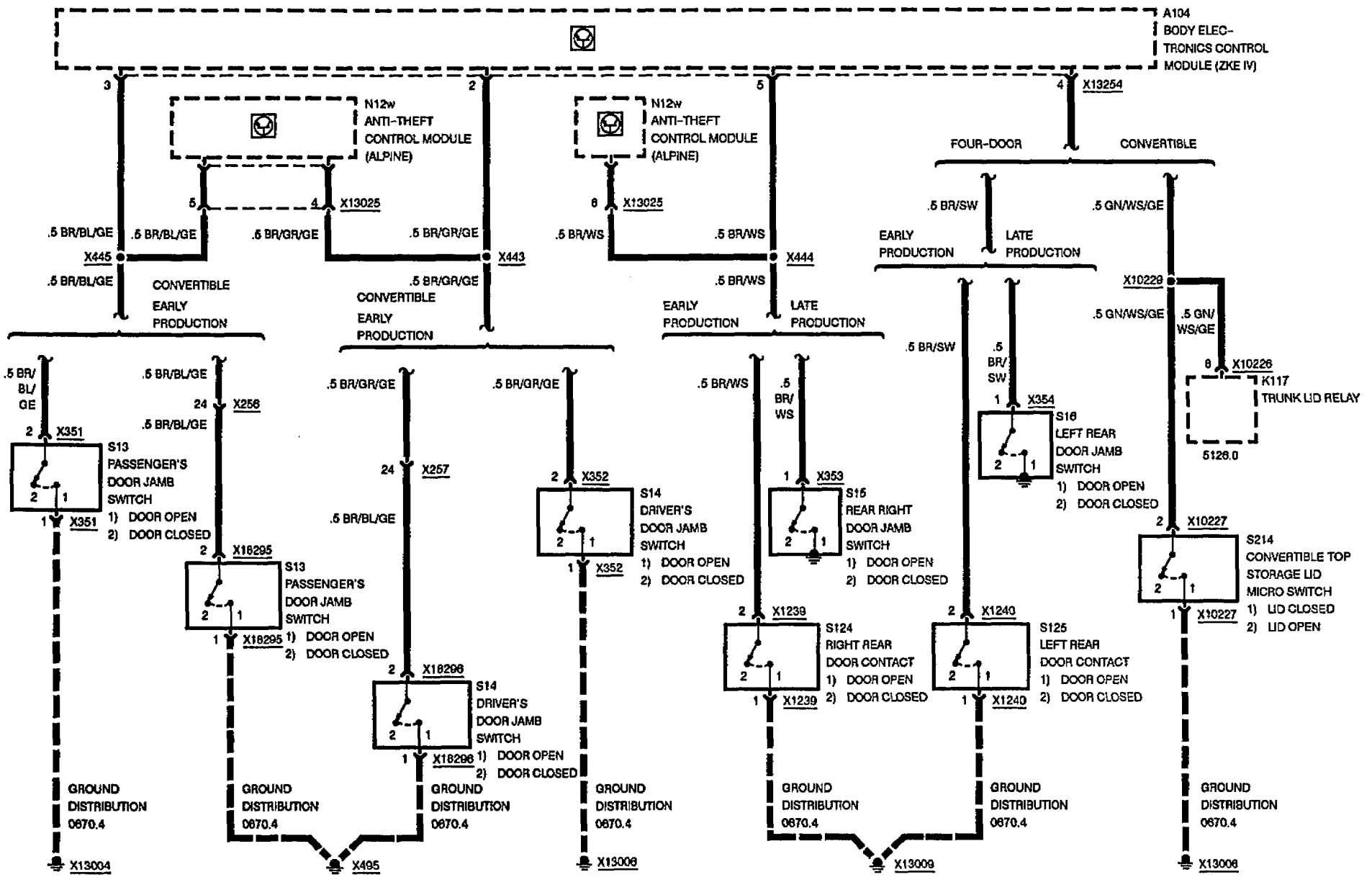

HOT AT ALL TIMES
HOT IN ACCY, RUN AND START
F33
10A
F43
5A
P90
FRONT POWER
DISTRIBUTION
BOX
6
FUSE DETAILS
0670.3
28
X10018
FUSE DETAILS
0670.3
A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)
12
.75 RT/WS
4
X13252
.5 VI/WS
.5 VI/WS
.5 VI/WS
.75 RT/WS
.75 RT/WS
.75 RT/SW
2
3
1
X336
E34
FRONT DOME
LIGHT/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


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

PARK VENTILATION WITH IHKR

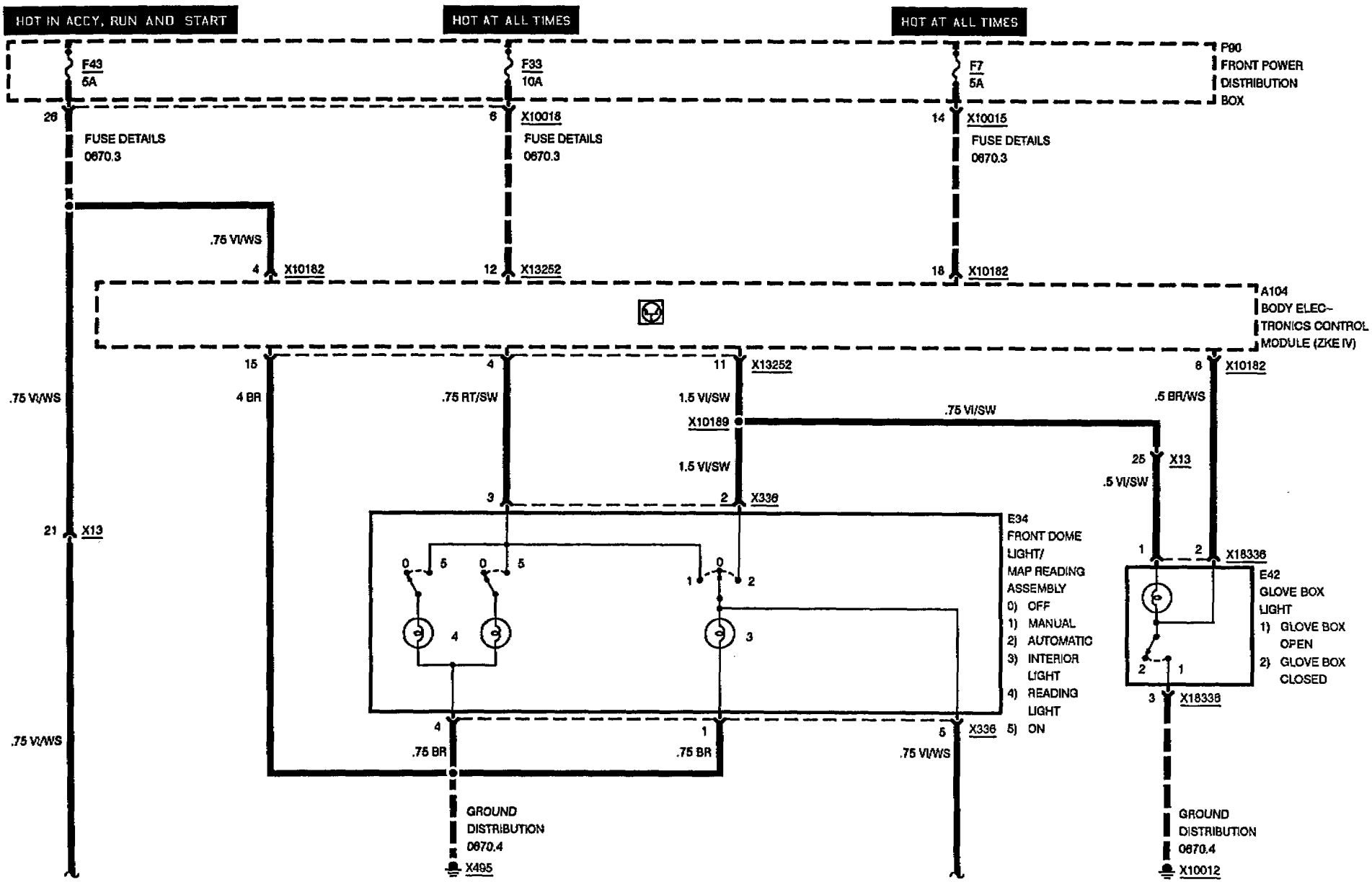


BMW 3 INTERIOR LIGHTS

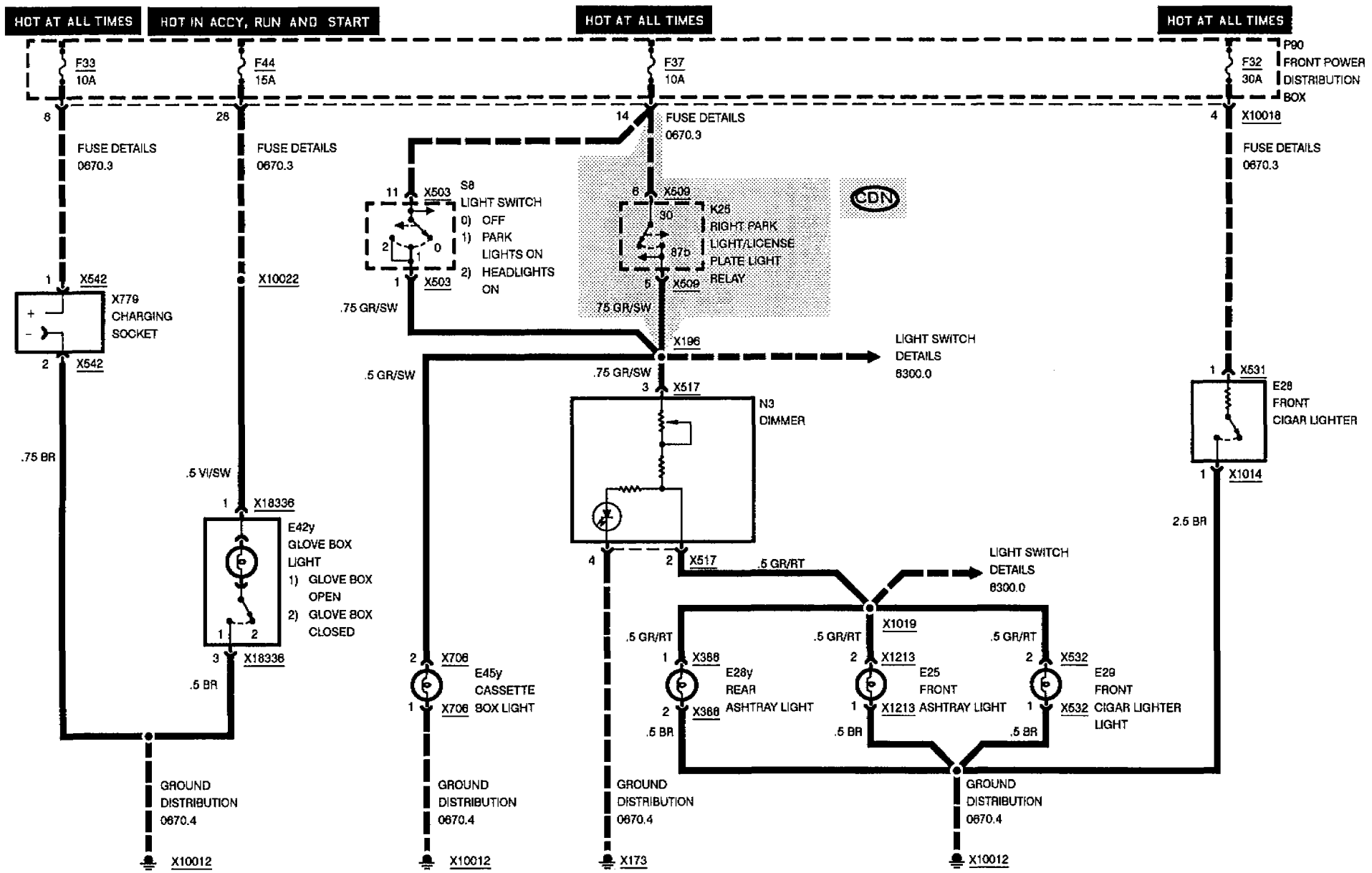


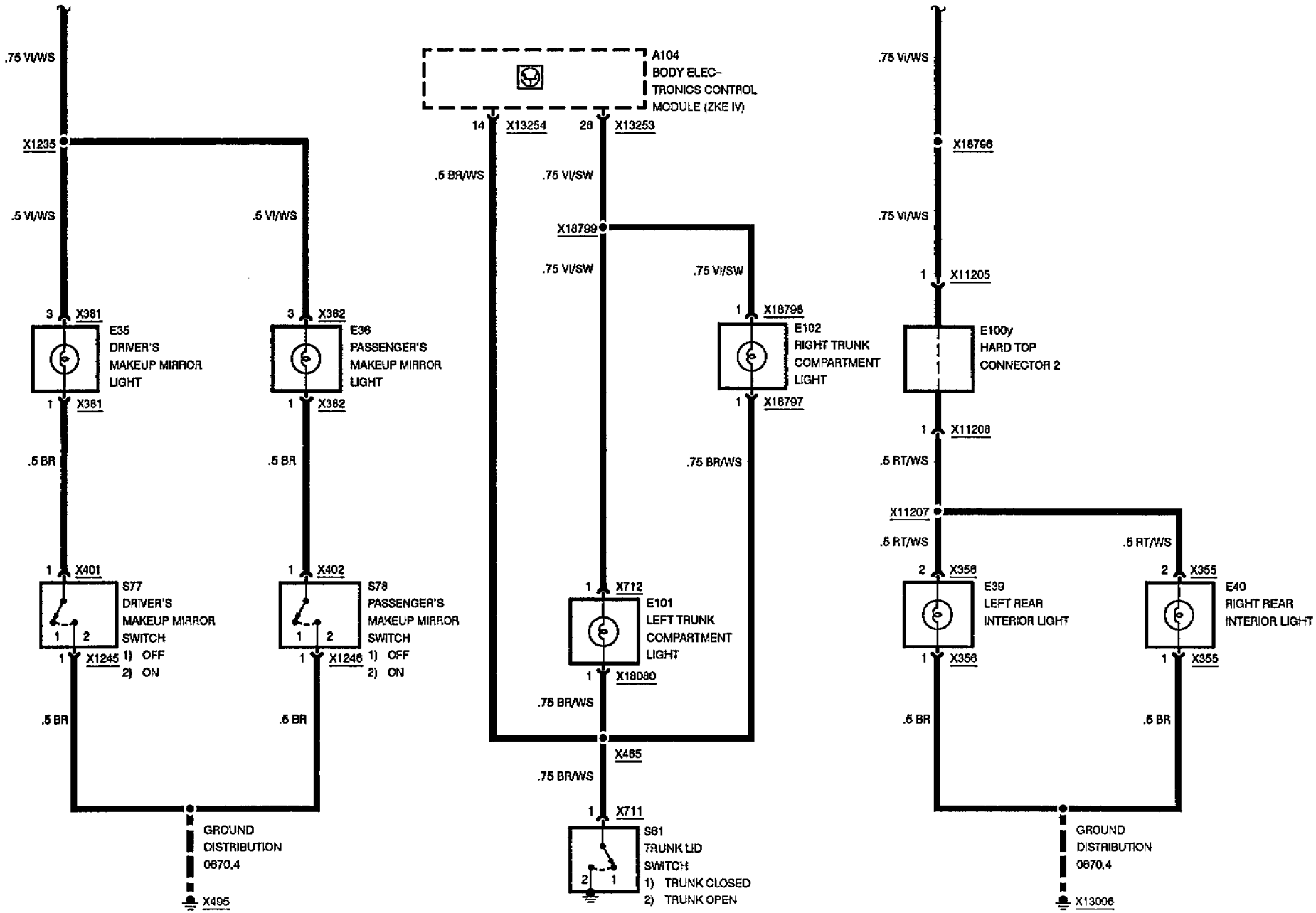
INTERIOR LIGHTS

CONVERTIBLE

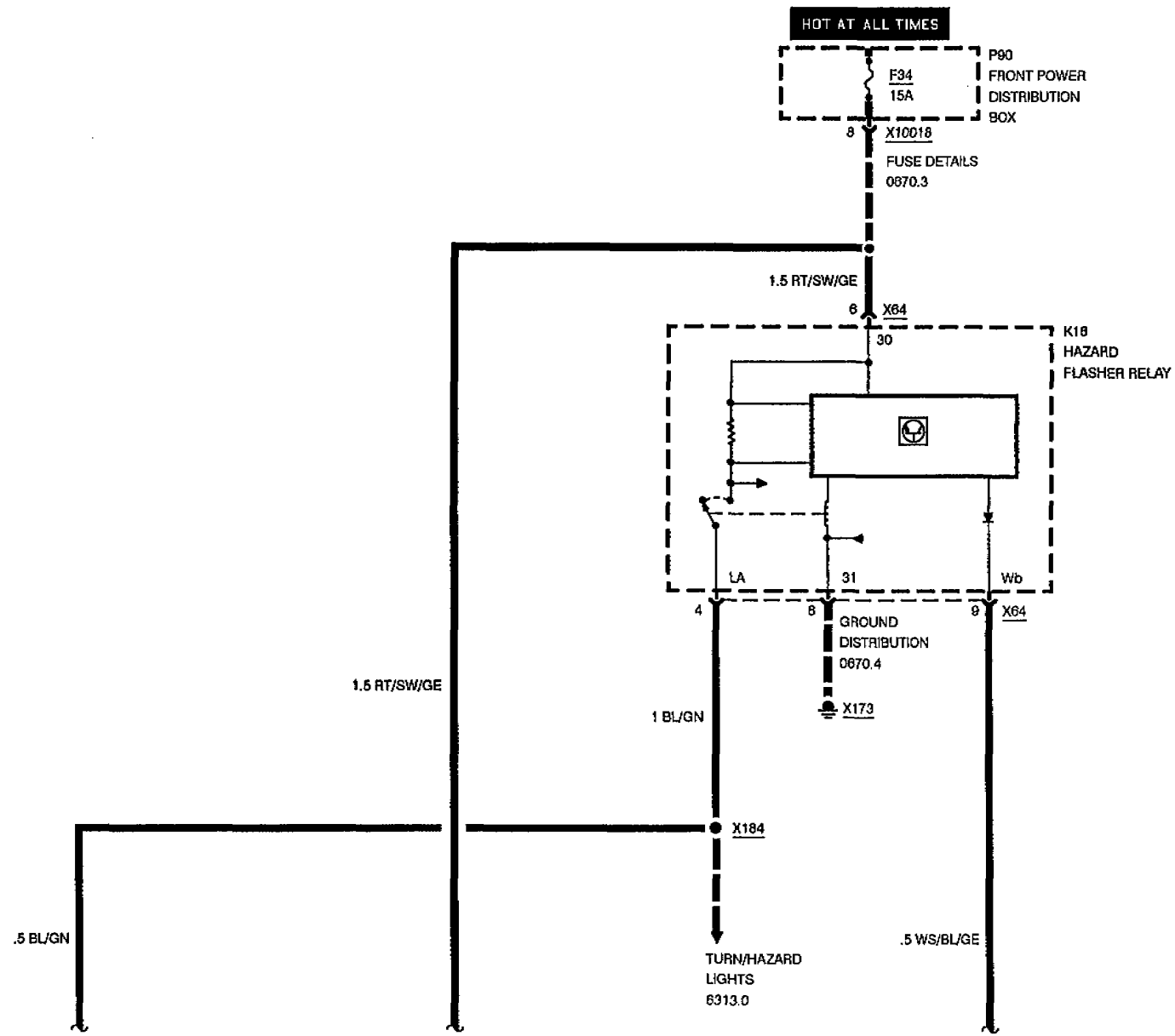


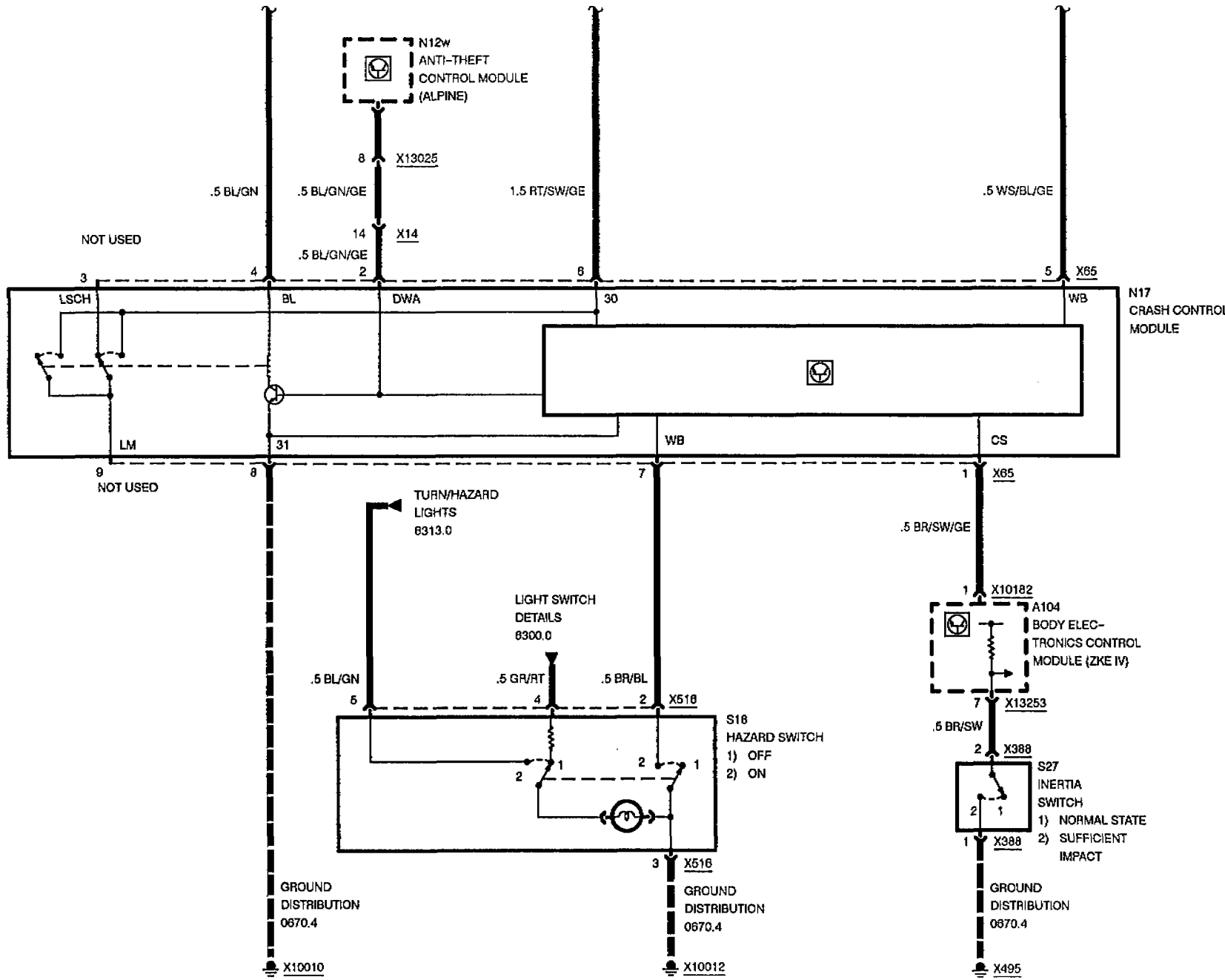
GLOVE BOX LIGHT/CASSETTE BOX/ASHTRAY LIGHT/CHARGING SOCKET/CIGAR LIGHTER



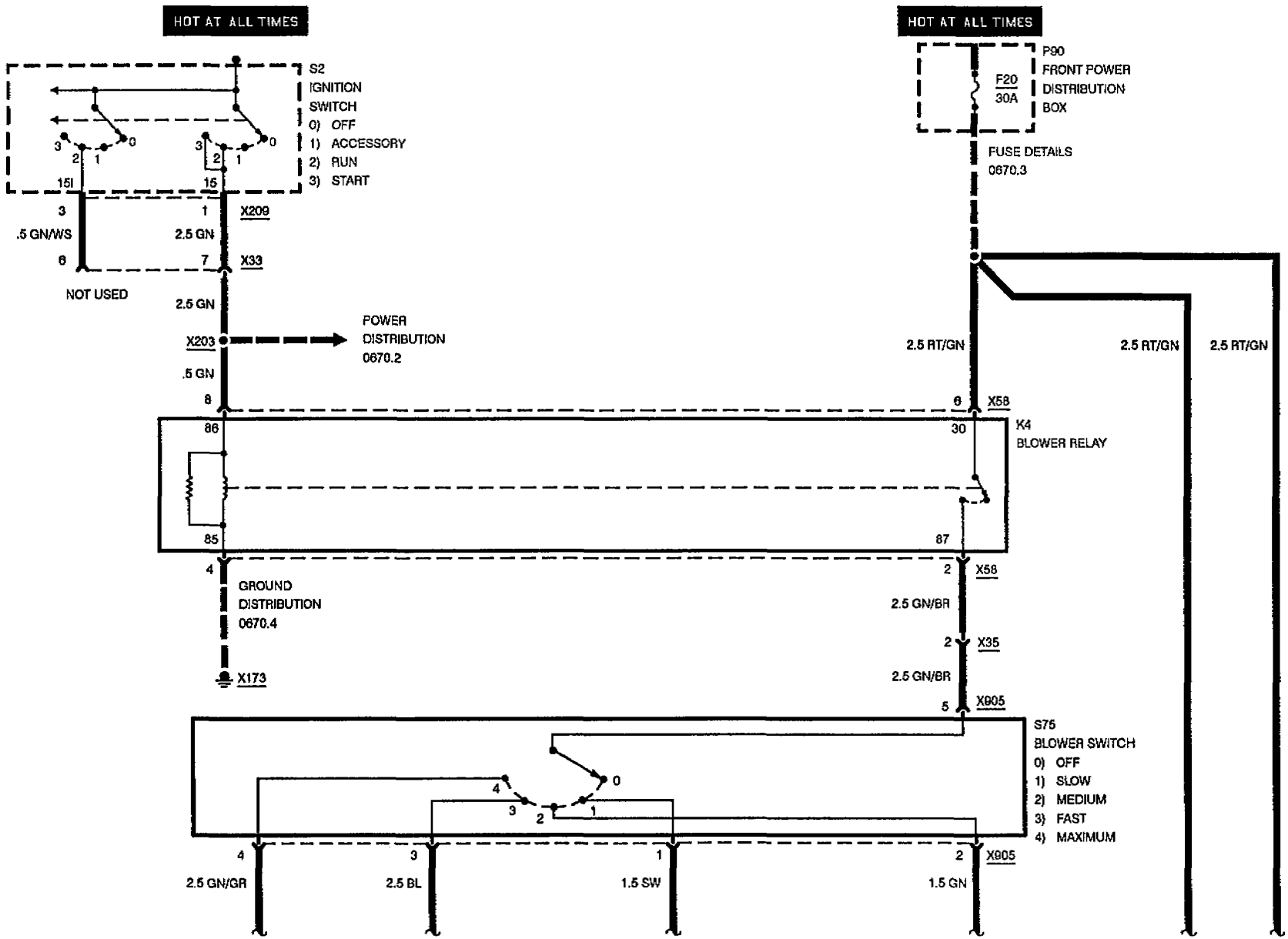

.75 VI/WS
X1235
.5 VI/WS
.5 VI/WS
3 X381
E35
DRIVER'S
MAKEUP MIRROR
LIGHT
1 X381
3 X382
E36
PASSENGER'S
MAKEUP MIRROR
LIGHT
1 X382
.5 BR
.5 BR
1 X401
S77
DRIVER'S
MAKEUP MIRROR
SWITCH
1) OFF
2) ON
1 X1245
1 X402
S78
PASSENGER'S
MAKEUP MIRROR
SWITCH
1) OFF
2) ON
1 X1246
.5 BR
.5 BR
GROUND
DISTRIBUTION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

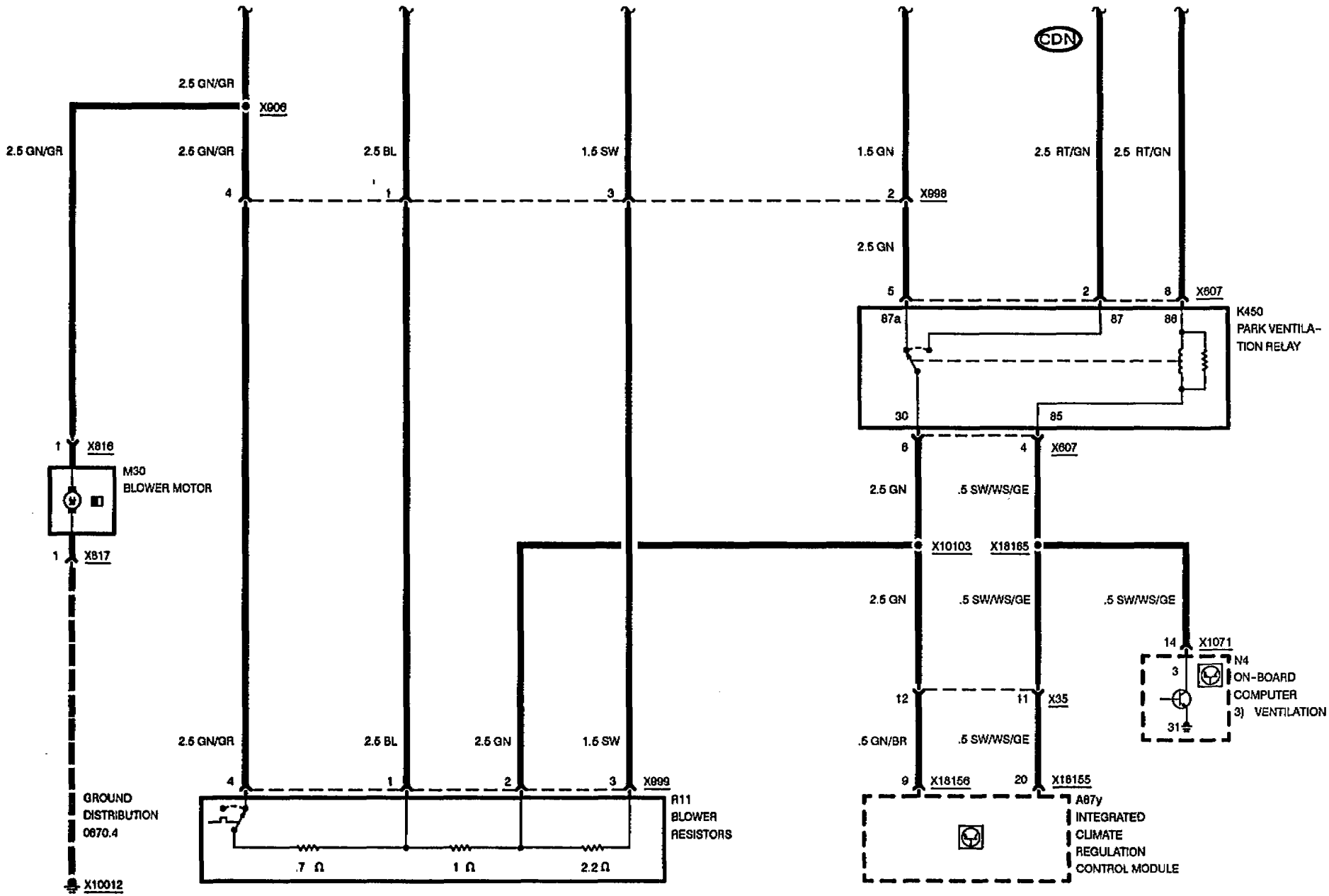
CRASH CONTROL MODULE



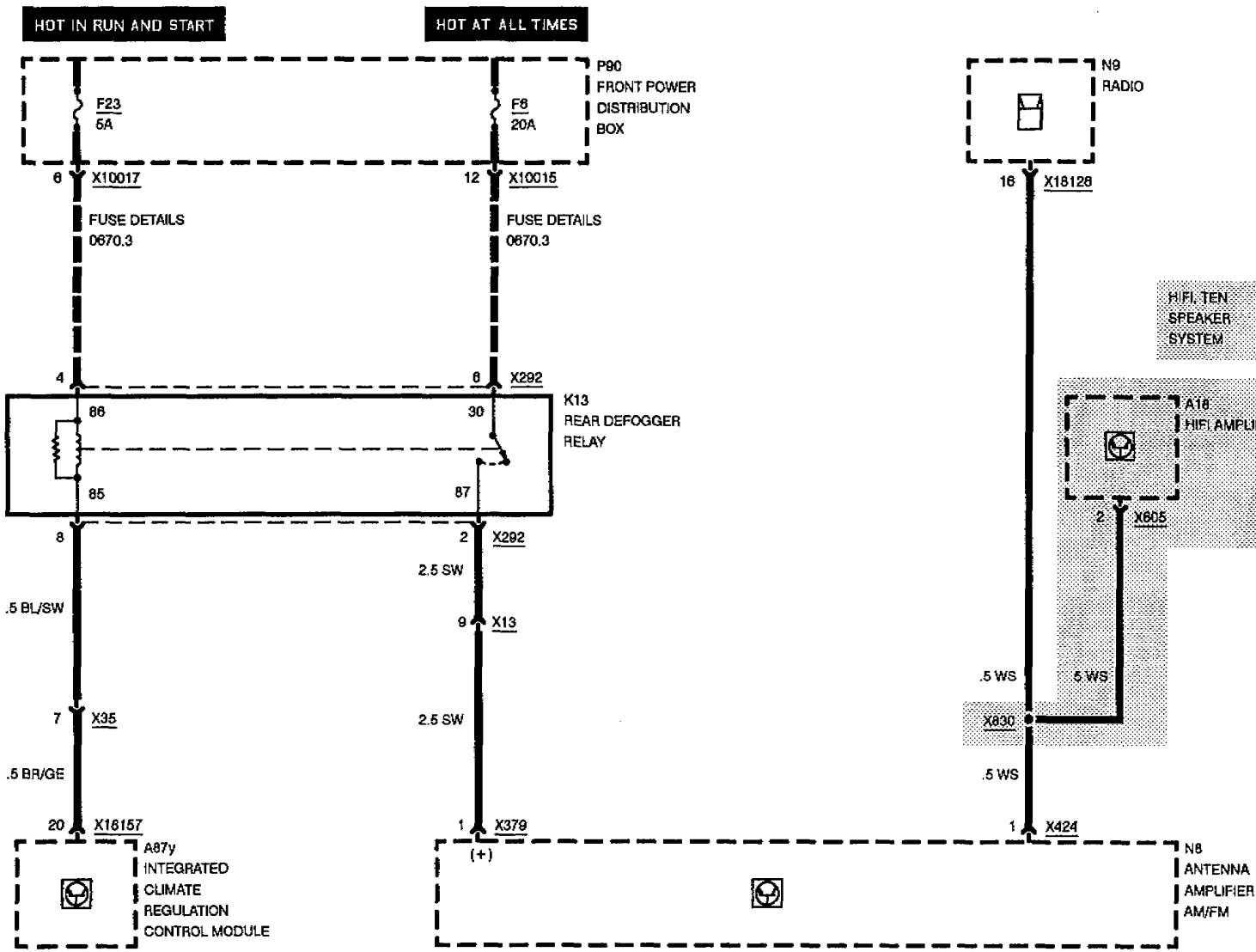

N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)
8
X13025
.5 BL/GN
.5 BL/GN/GE
1.5 RT/SW/GE
.5 WS/BL/GE
NOT USED
14
X14
.5 BL/GN/GE
3
4
2
6
5
X65
LSCH
BL
DWA
30
WB
N17
CRASH CONTROL
MODULE
LM
31
WB
CS
9
NOT USED
8
7
1
X65
TURN/HAZARD
LIGHTS
6313.0
.5 BR/SW/GE
LIGHT SWITCH
DETAILS
6300.0
1
X10182
A104
BODY ELEC-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

PARK VENTILATION WITH IHKR



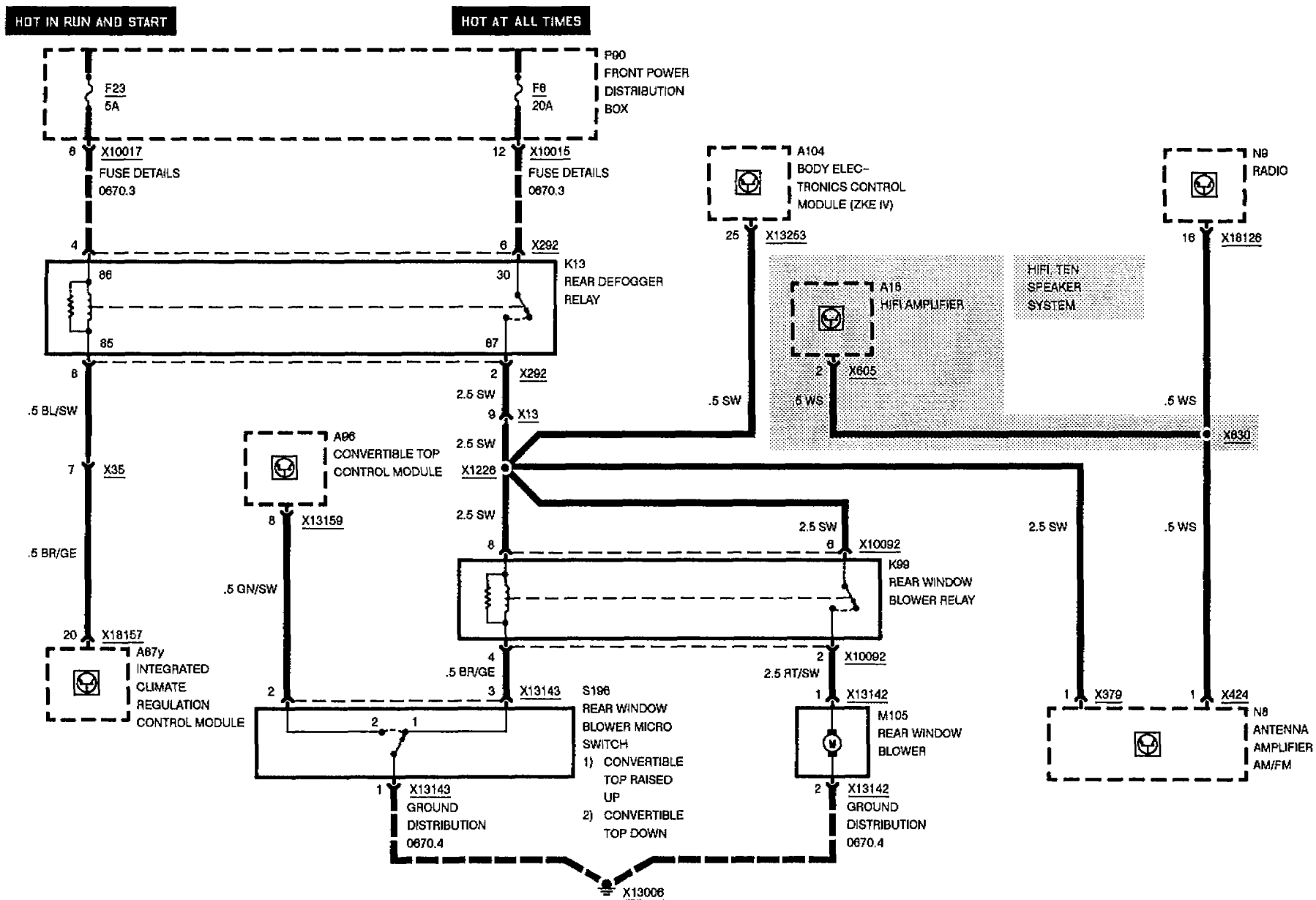

CDN
2.5 GN/GR
X906
2.5 GN/GR
2.5 GN/GR
2.5 BL
1.5 SW
1.5 GN
2.5 RT/GN
2.5 RT/GN
4
1
3
2
X998
2.5 GN
5
2
8
X607
87a
87
86
K450
PARK VENTILA-
TION RELAY
30
85
1
X816
M30
BLOWER MOTOR
1
X817
6
4
X607
2.5 GN
.5 SW/WS/GE
X10103
X18165
2.5 GN
.5 SW/WS/GE
.5 SW/WS/GE
14
X1071
N4
ON-BOARD
COMPUTER
3) VENTILATION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

REAR WINDOW DEFOGGER



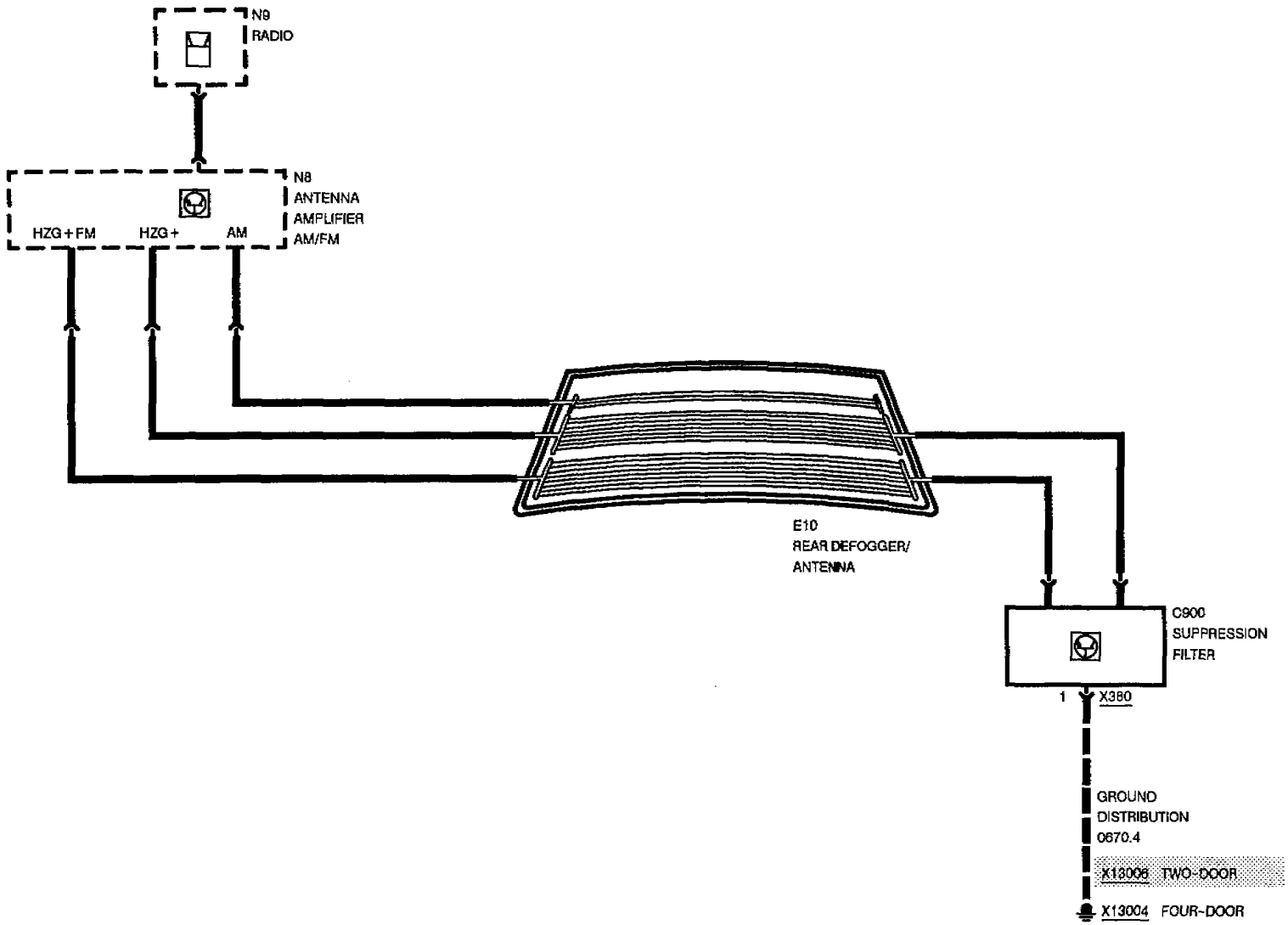
REAR WINDOW DEFOGGER

CONVERTIBLE



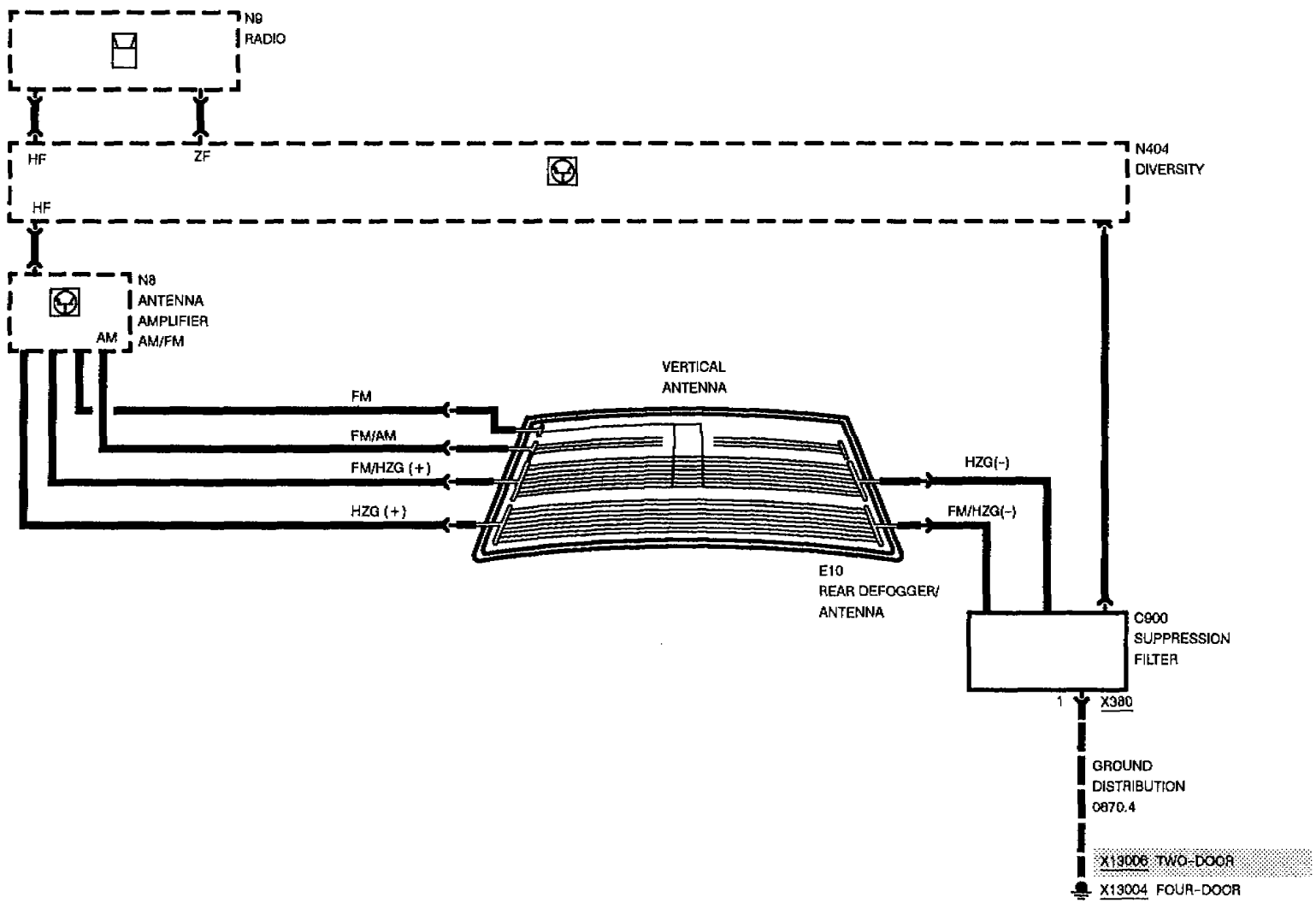
REAR WINDOW DEFOGGER

REAR WINDOW ANTENNA



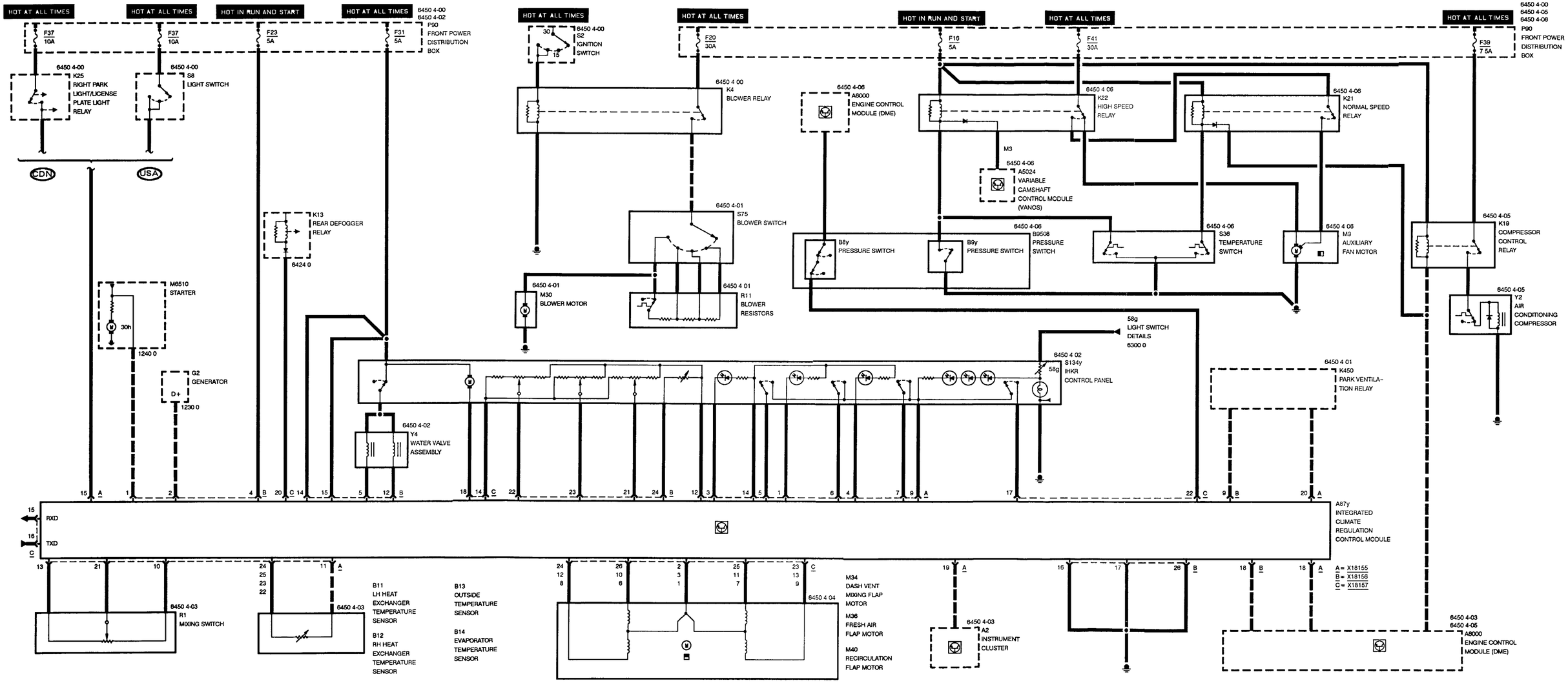
REAR WINDOW DEFOGGER

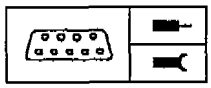
3-ANTENNA-DIVERSITY



12/94 — 6450 4 — 1994

12/94 — 6450 4 — 1994





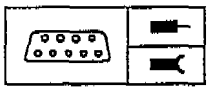
Pin Assignments

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

X18155

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

E = Input, A = Output, M = Ground



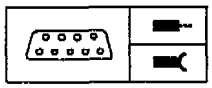
Pin Assignments

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

X18156

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

E = Input, A = Output, M = Ground



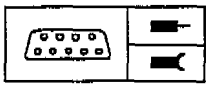
Pin Assignments

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

X18157

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

E = Input, A = Output, M = Ground



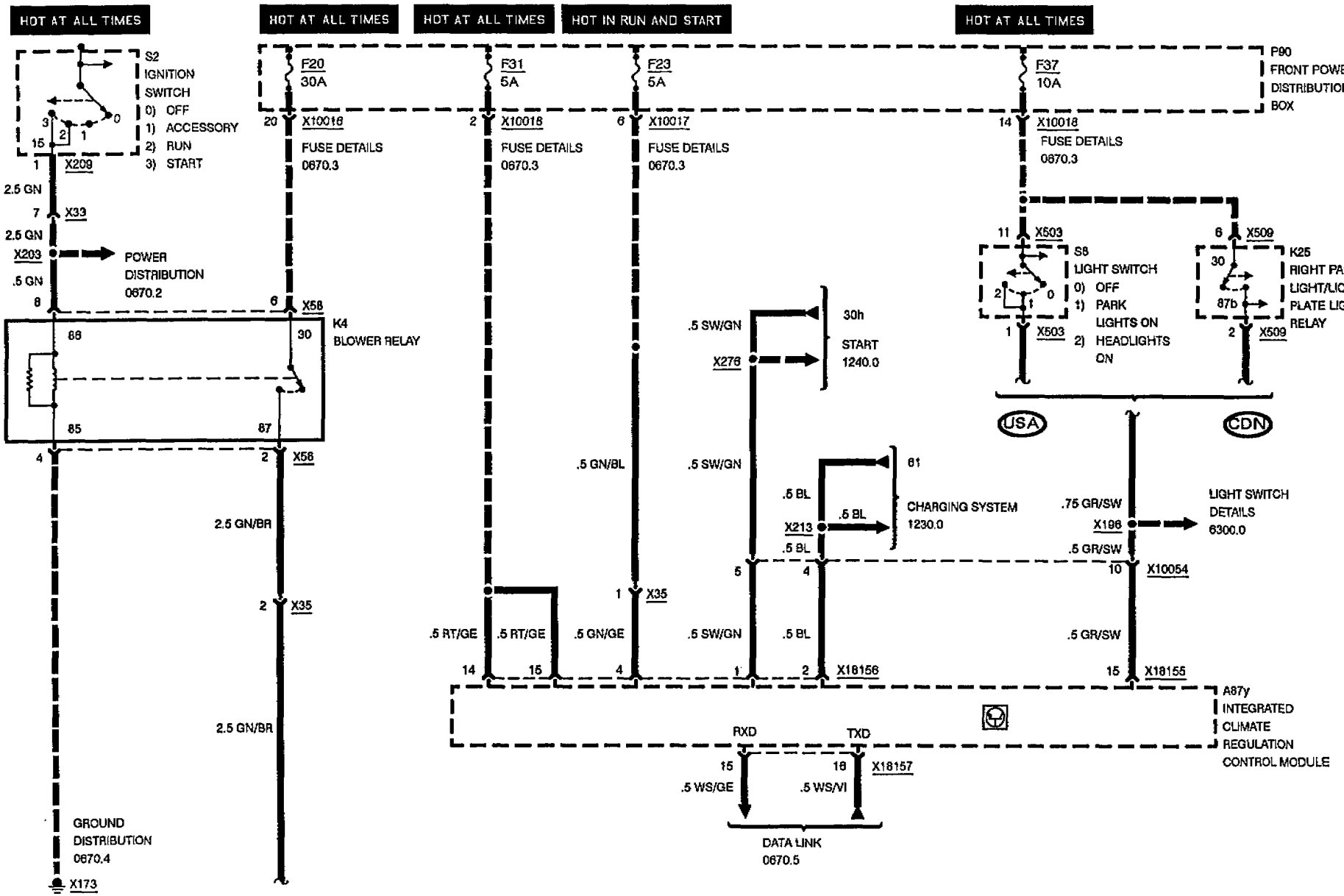
Pin Assignments

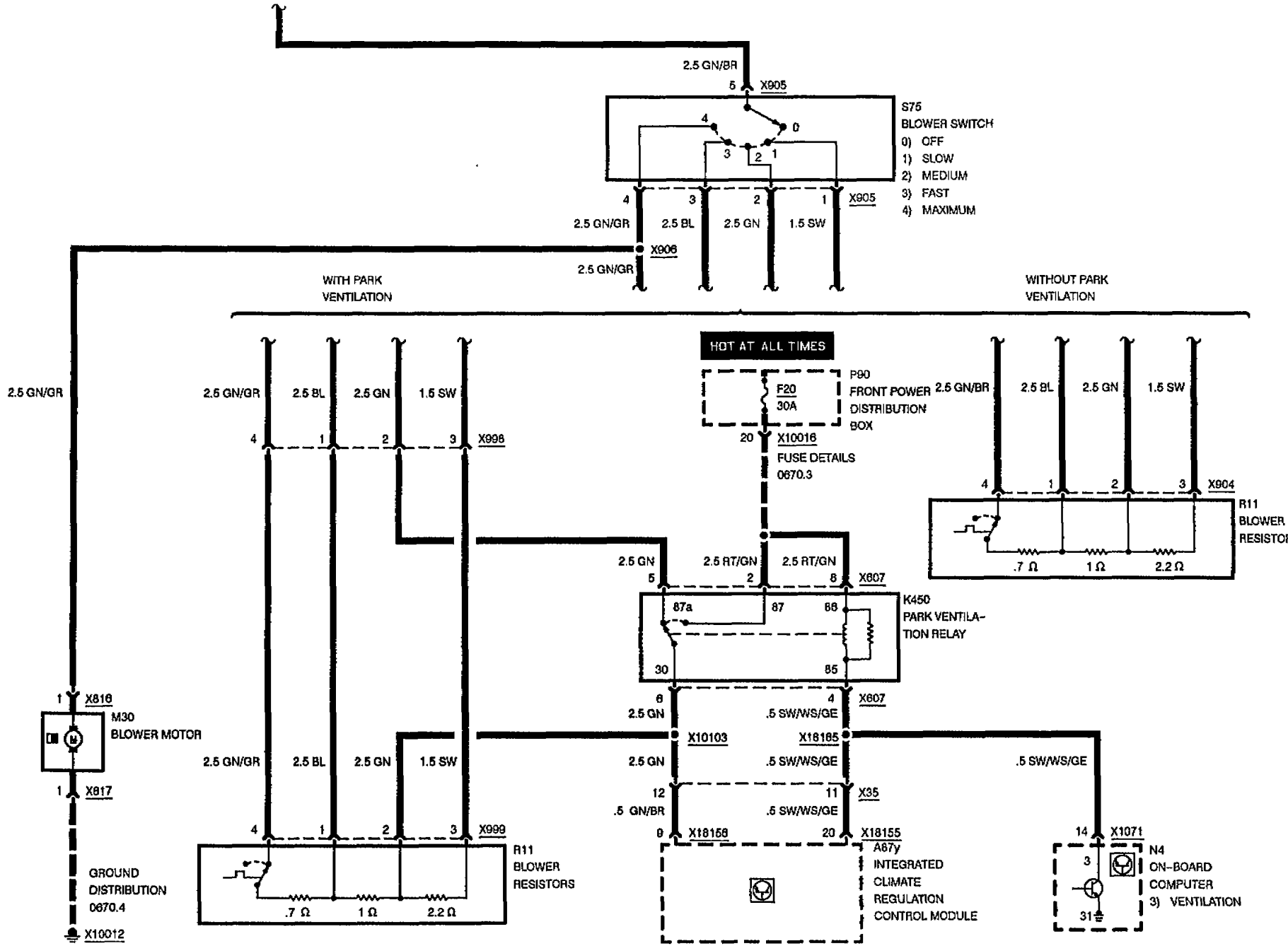
Pin	Type	Description/Function	Connection
25	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor
26	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor

E = Input, A = Output, M = Ground

INTEGRATED CLIMATE REGULATION (IHKR E36)

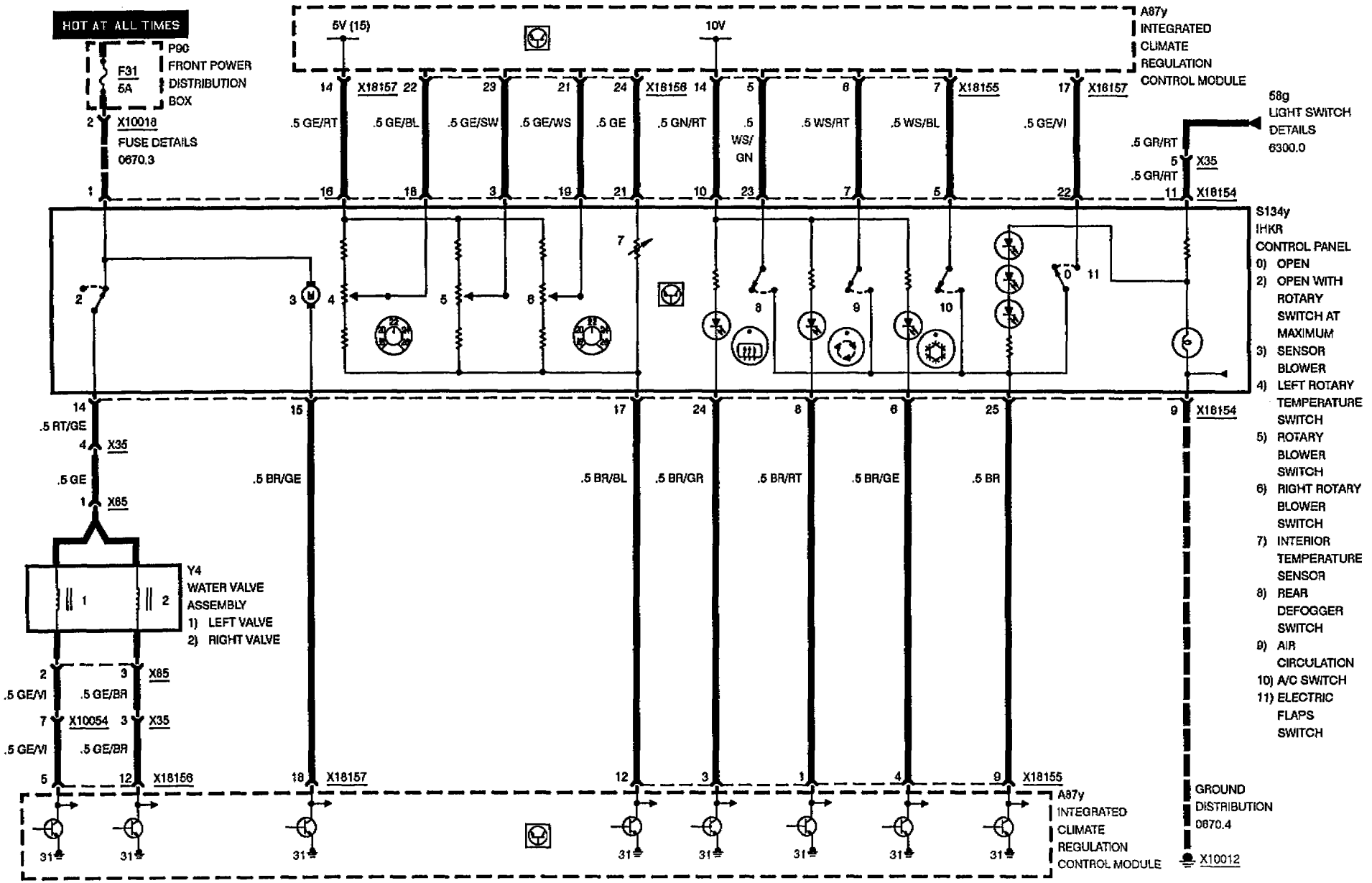
POWER, BLOWER CONTROLS




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

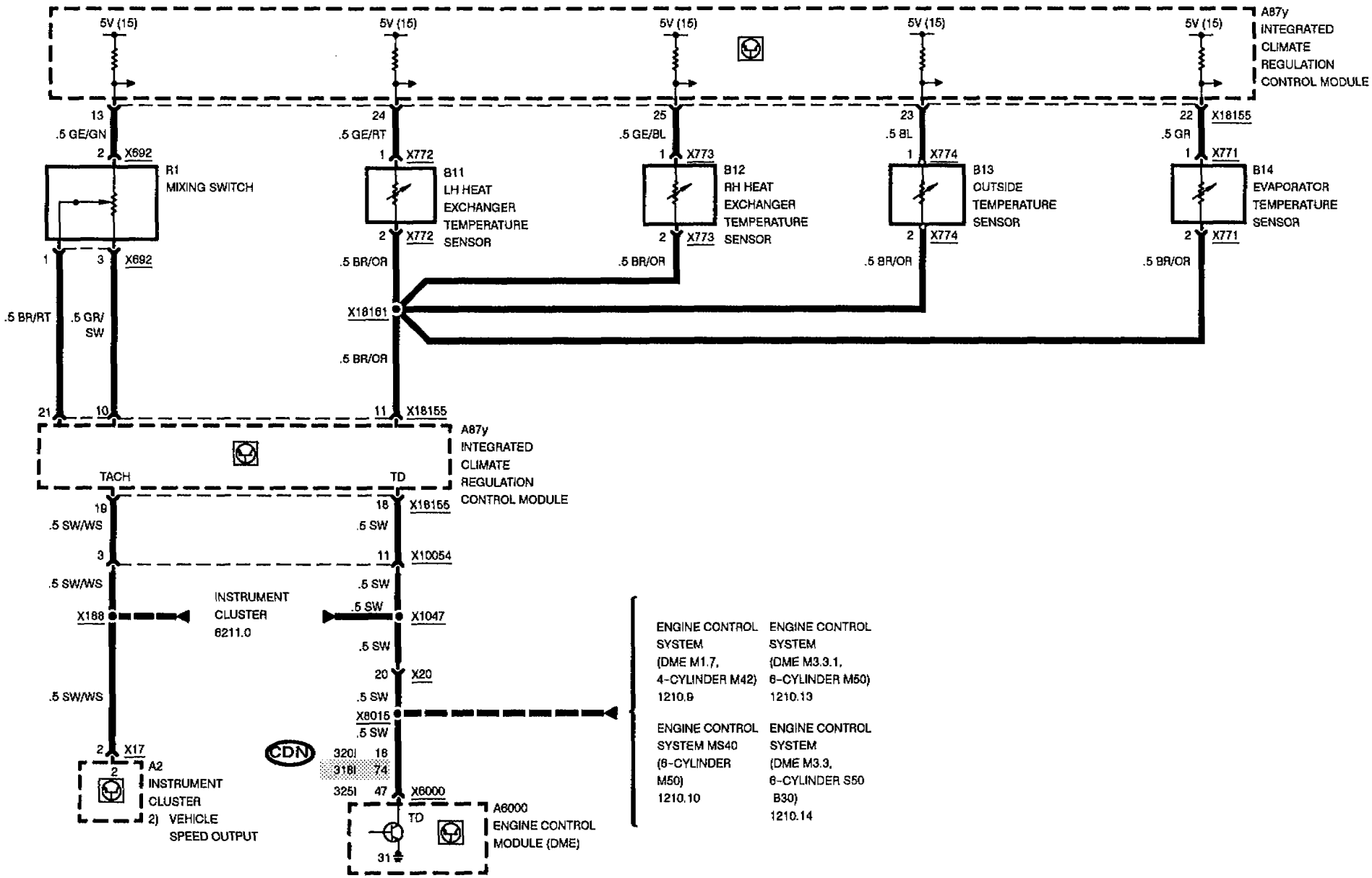
INTEGRATED CLIMATE REGULATION (IHKR E36)

CONTROL MODULE, WATER VALVES



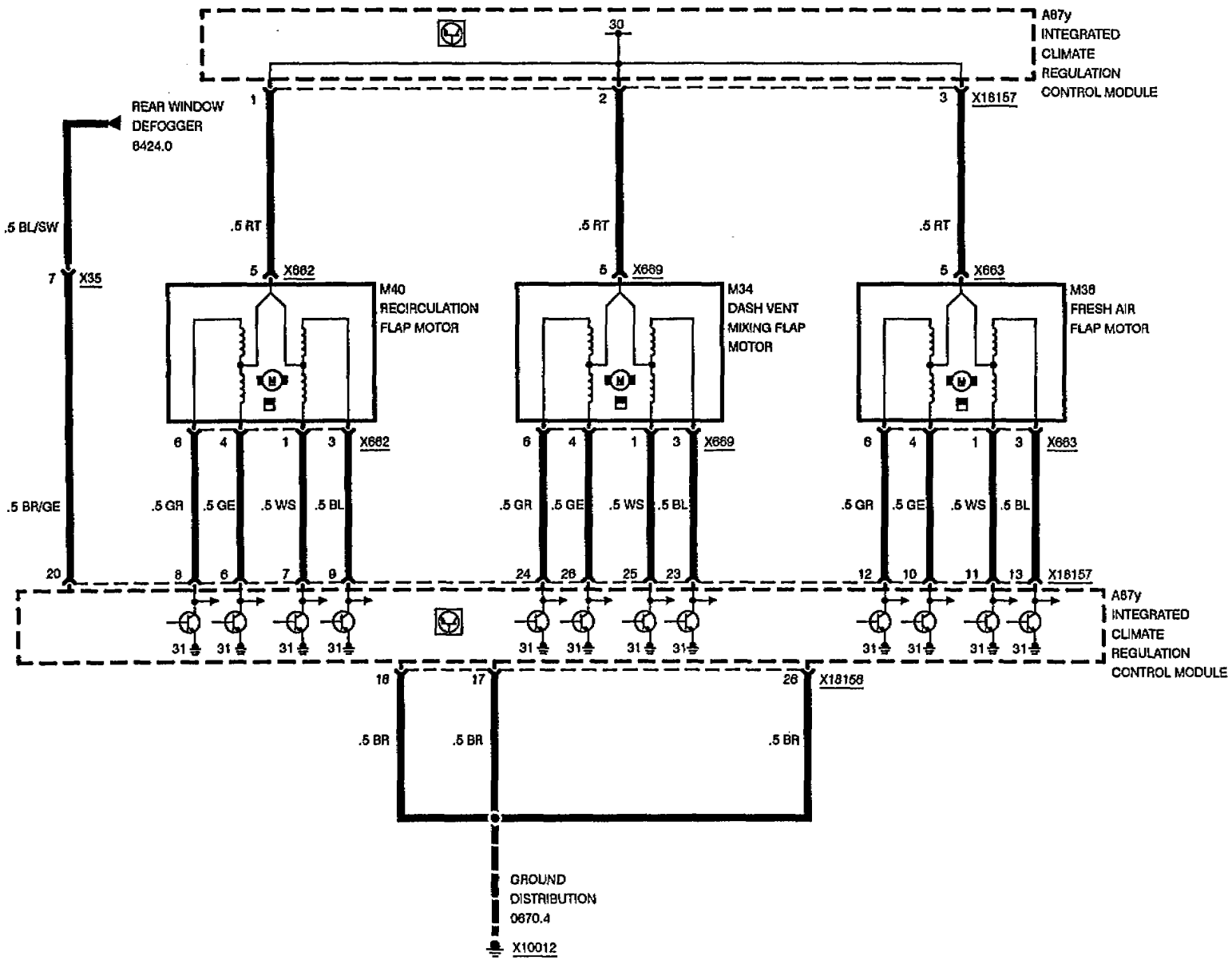
INTEGRATED CLIMATE REGULATION (IHKR E36)

TEMPERATURE CONTROL



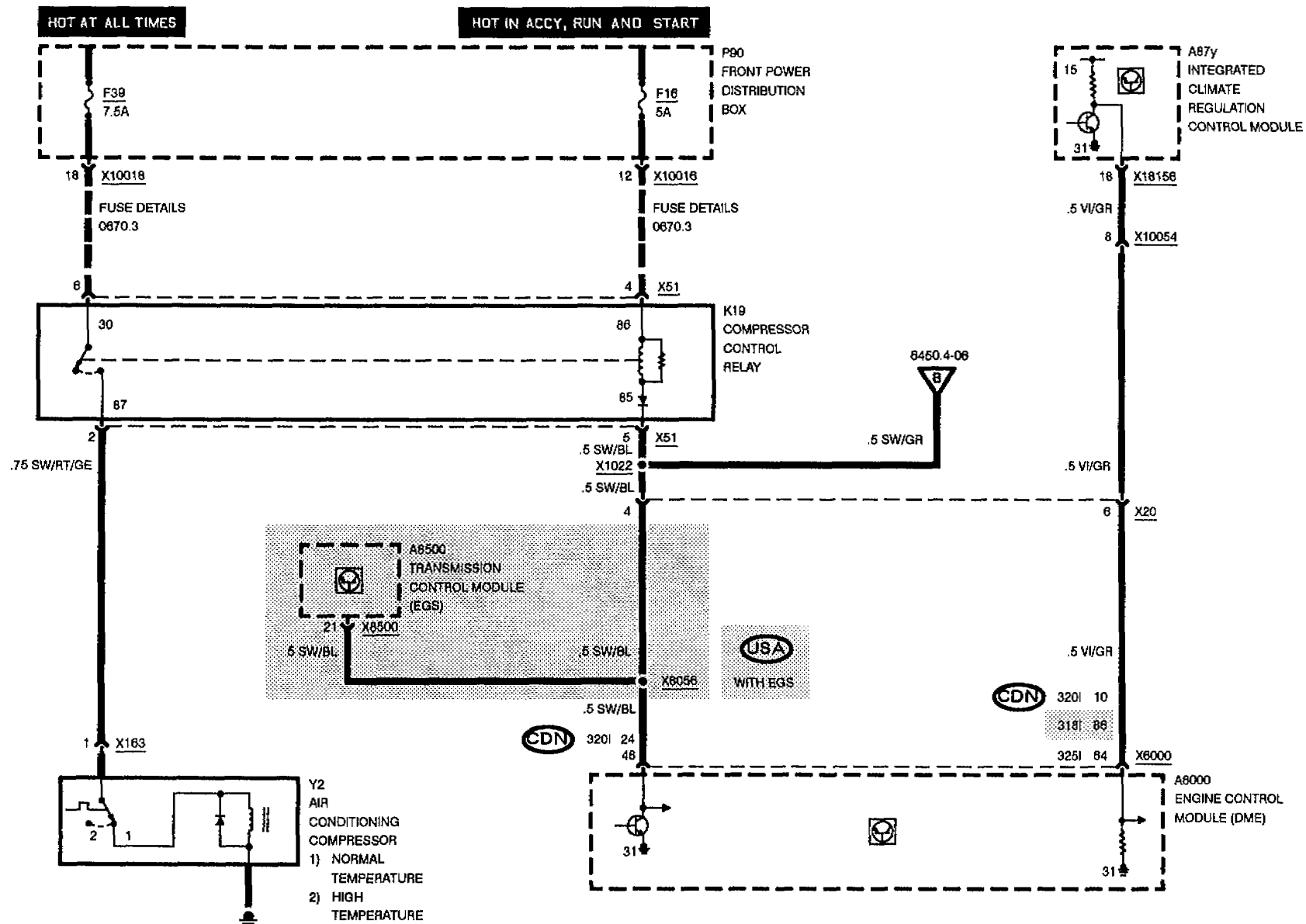
INTEGRATED CLIMATE REGULATION (IHKR E36)

AIR DELIVERY



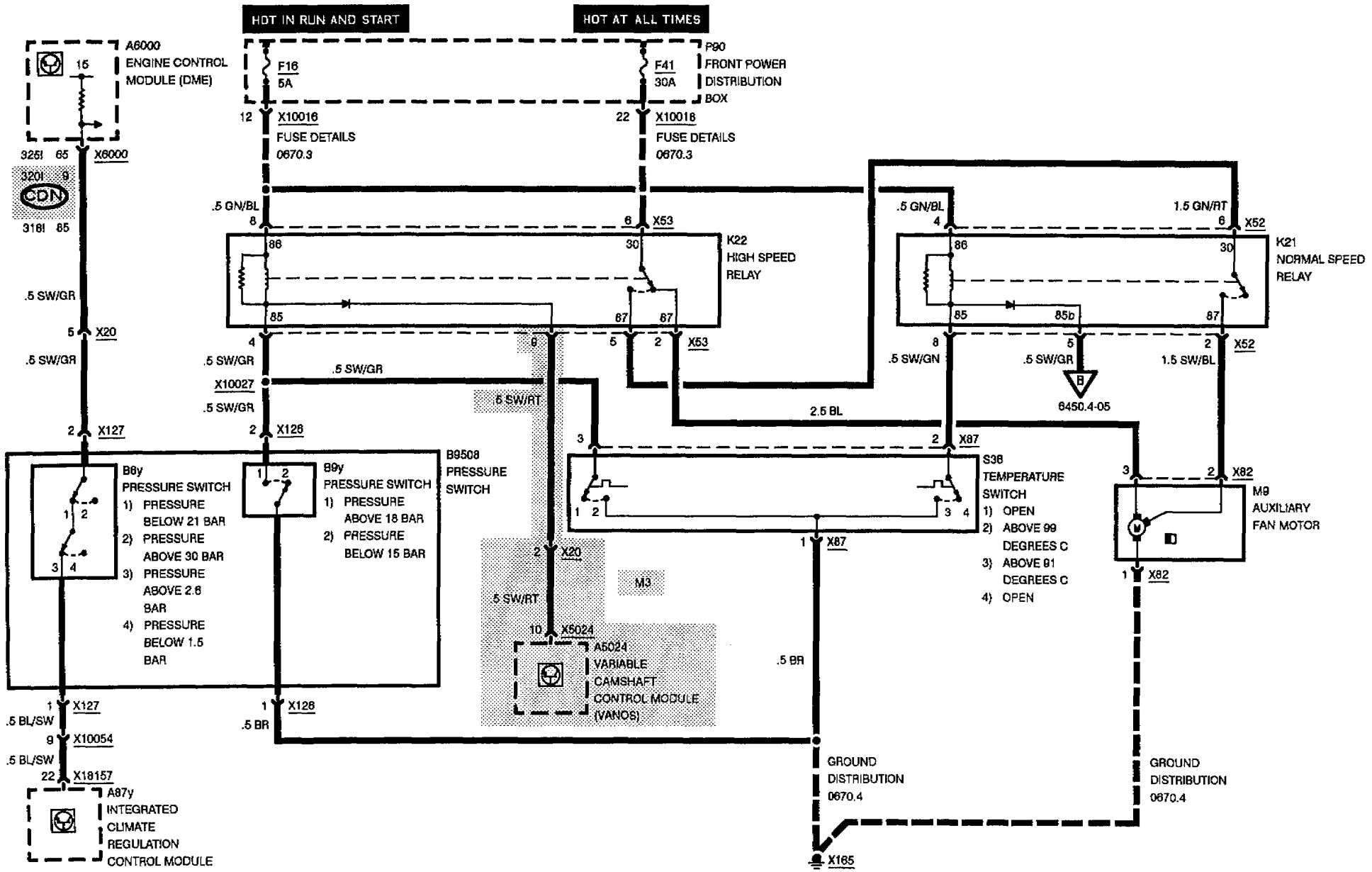
INTEGRATED CLIMATE REGULATION (IHKR E36)

COMPRESSOR CONTROLS



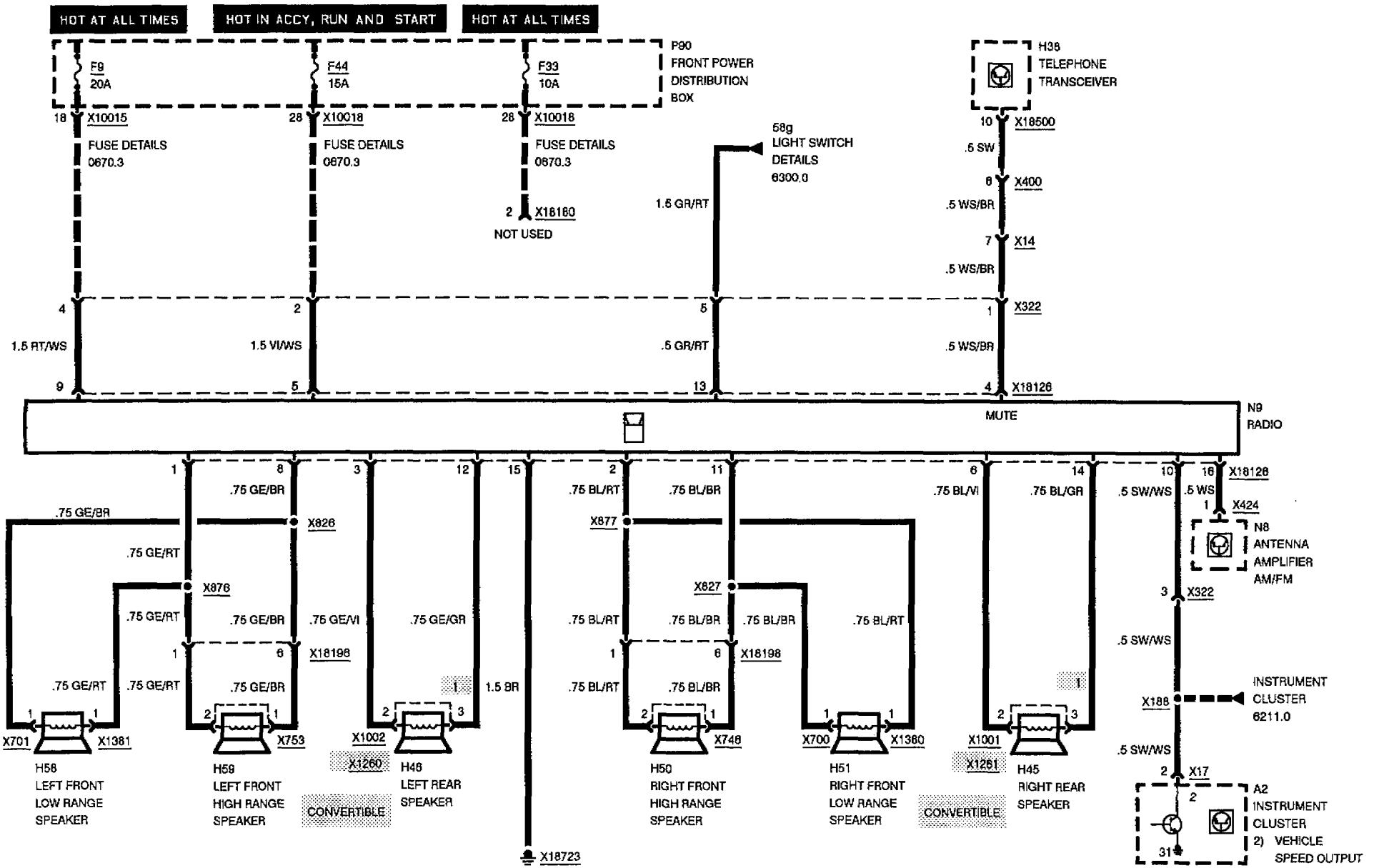
INTEGRATED CLIMATE REGULATION (IHKR E36)

AUXILIARY FAN



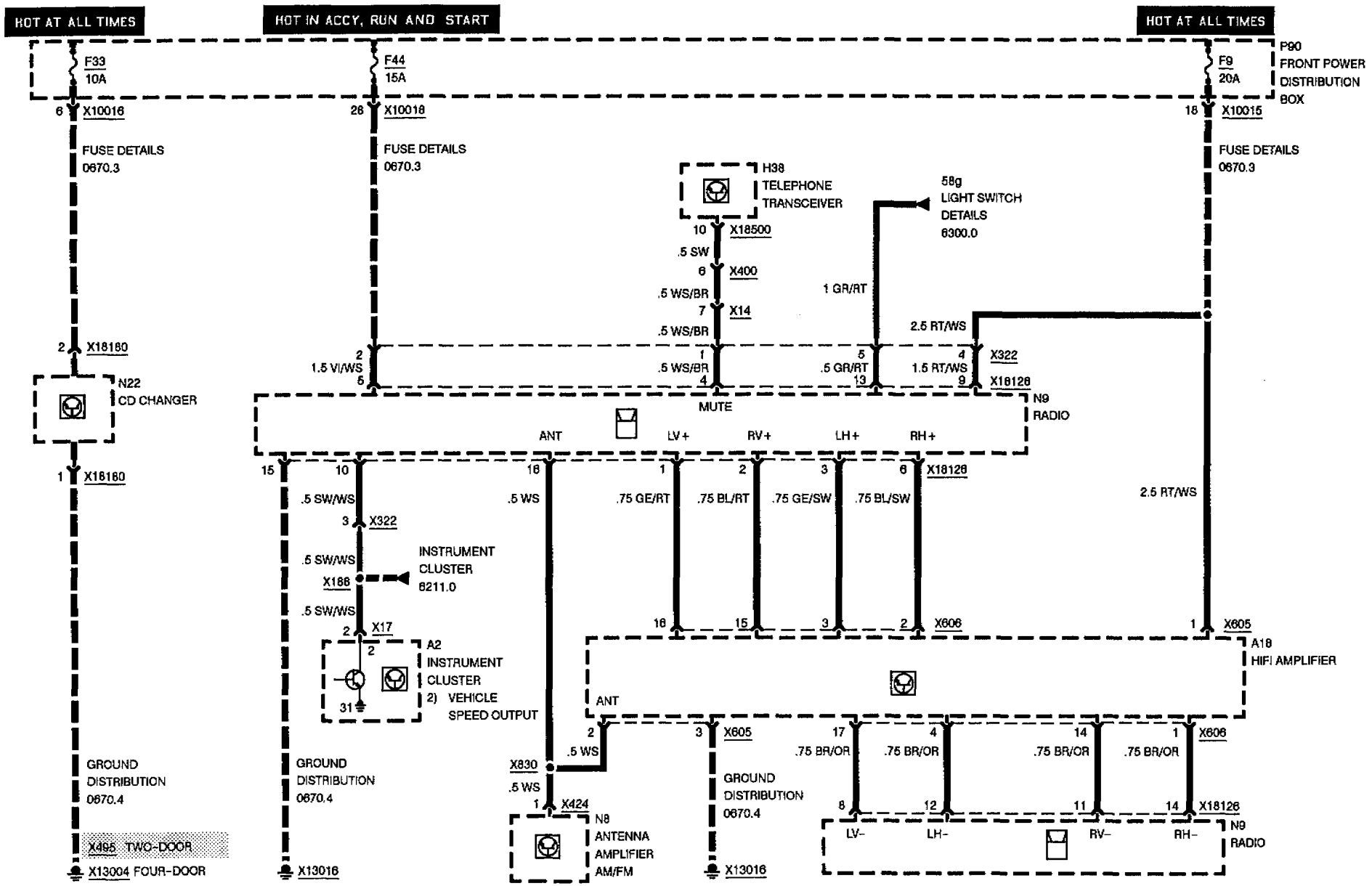
RADIO/STEREO

STEREO, 6-SPEAKER SYSTEM



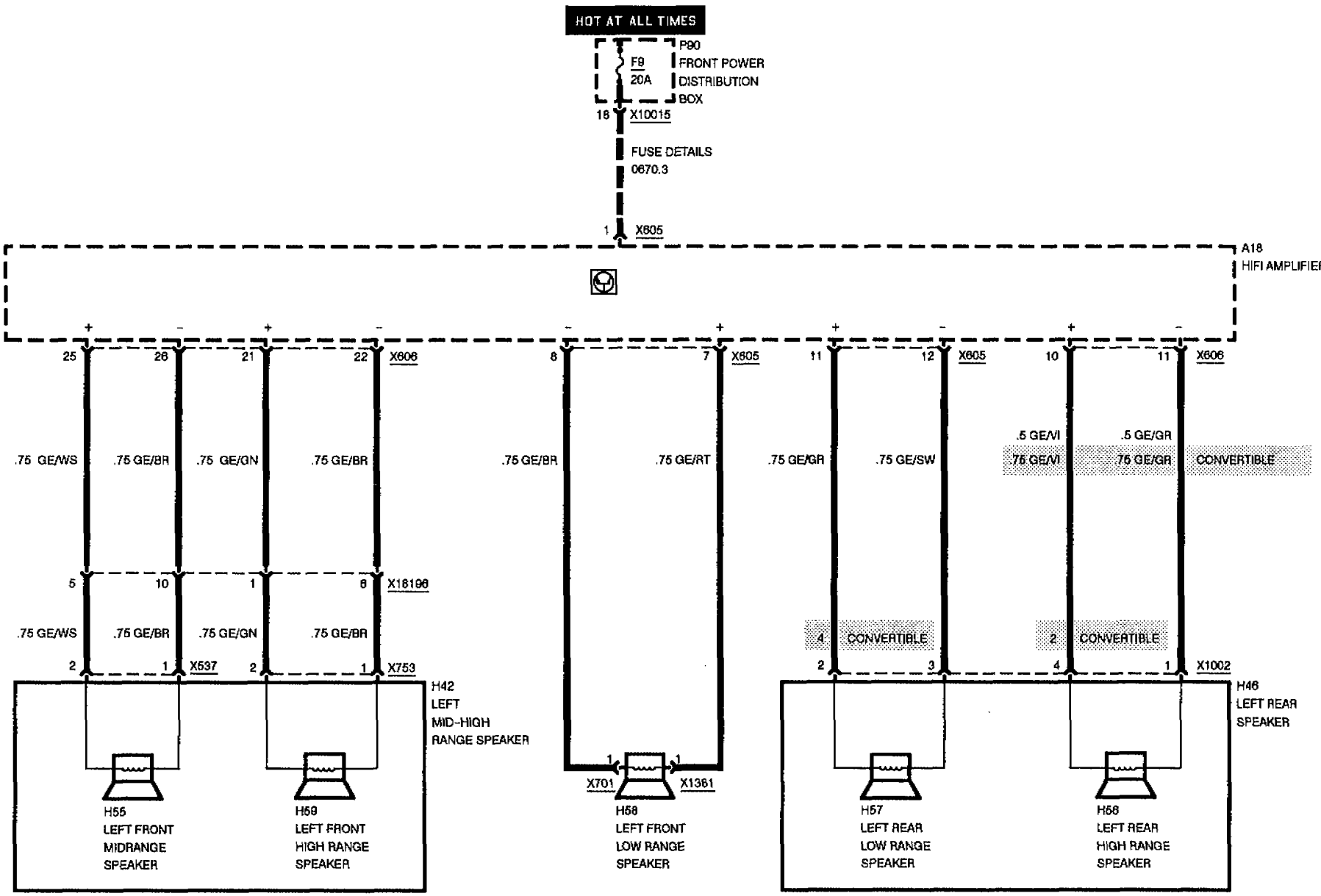
RADIO/HIFI

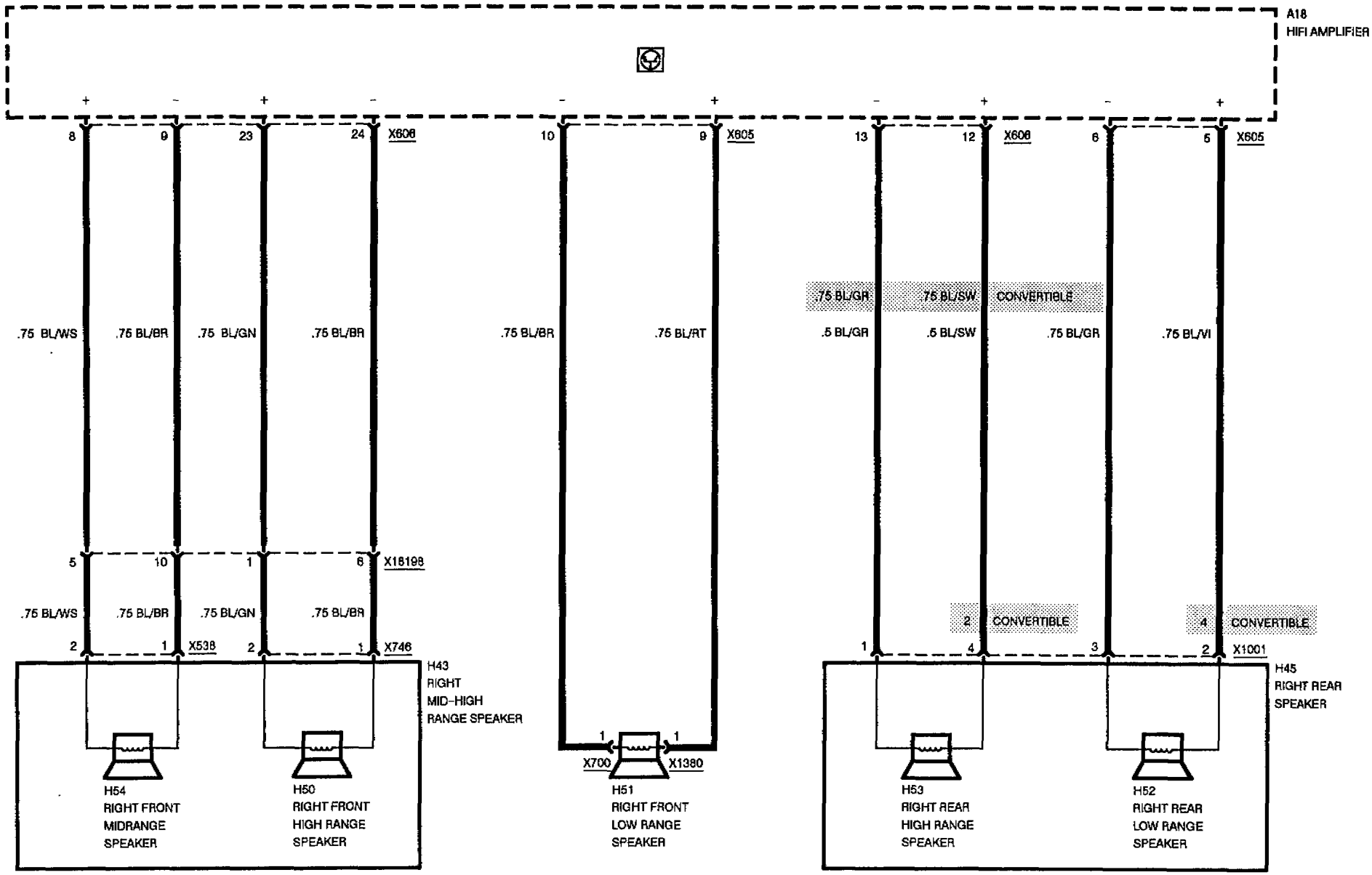
HIFI, 10-SPEAKER SYSTEM



RADIO/HIFI

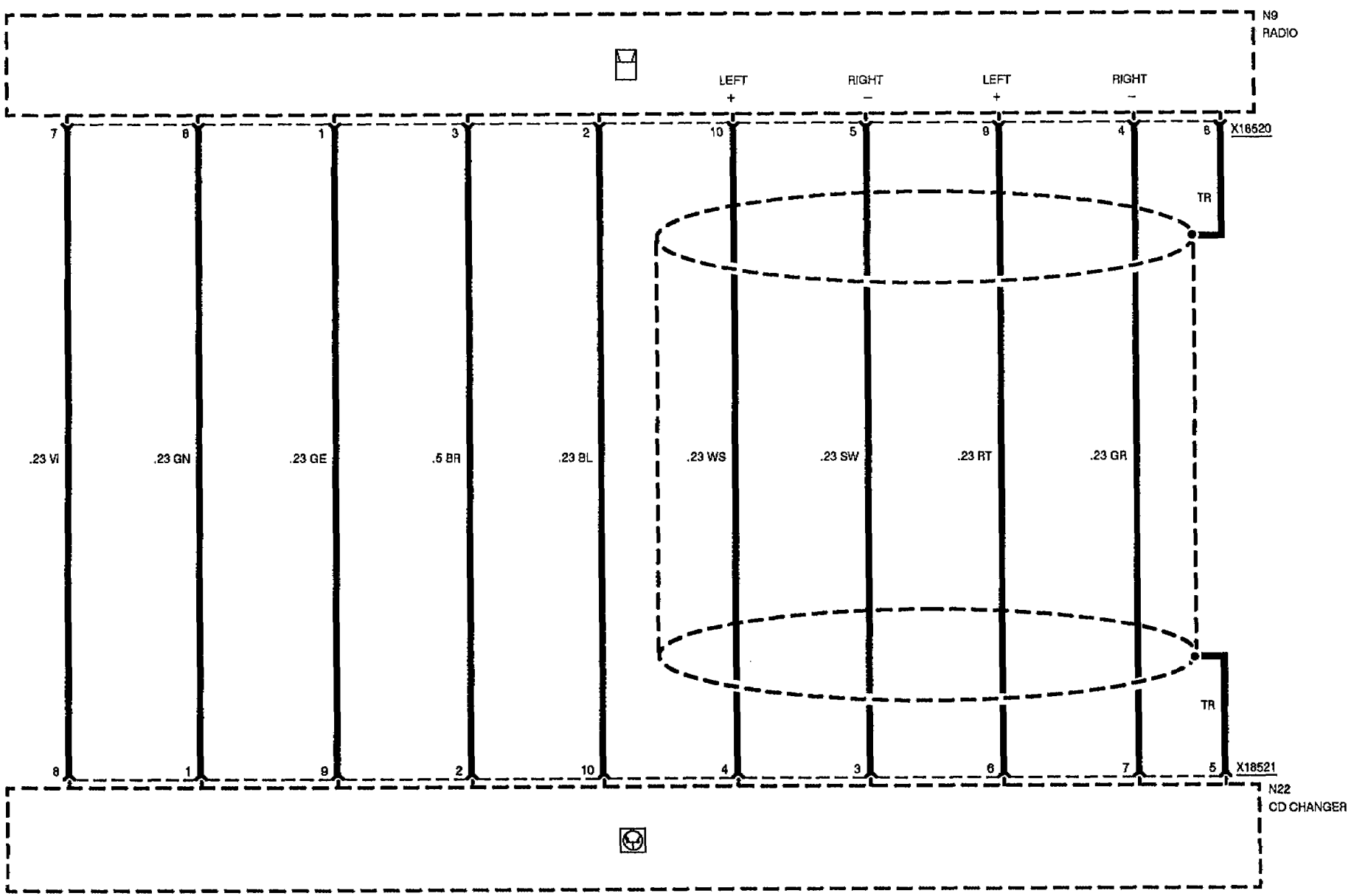
HIFI, 10-SPEAKER SYSTEM




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

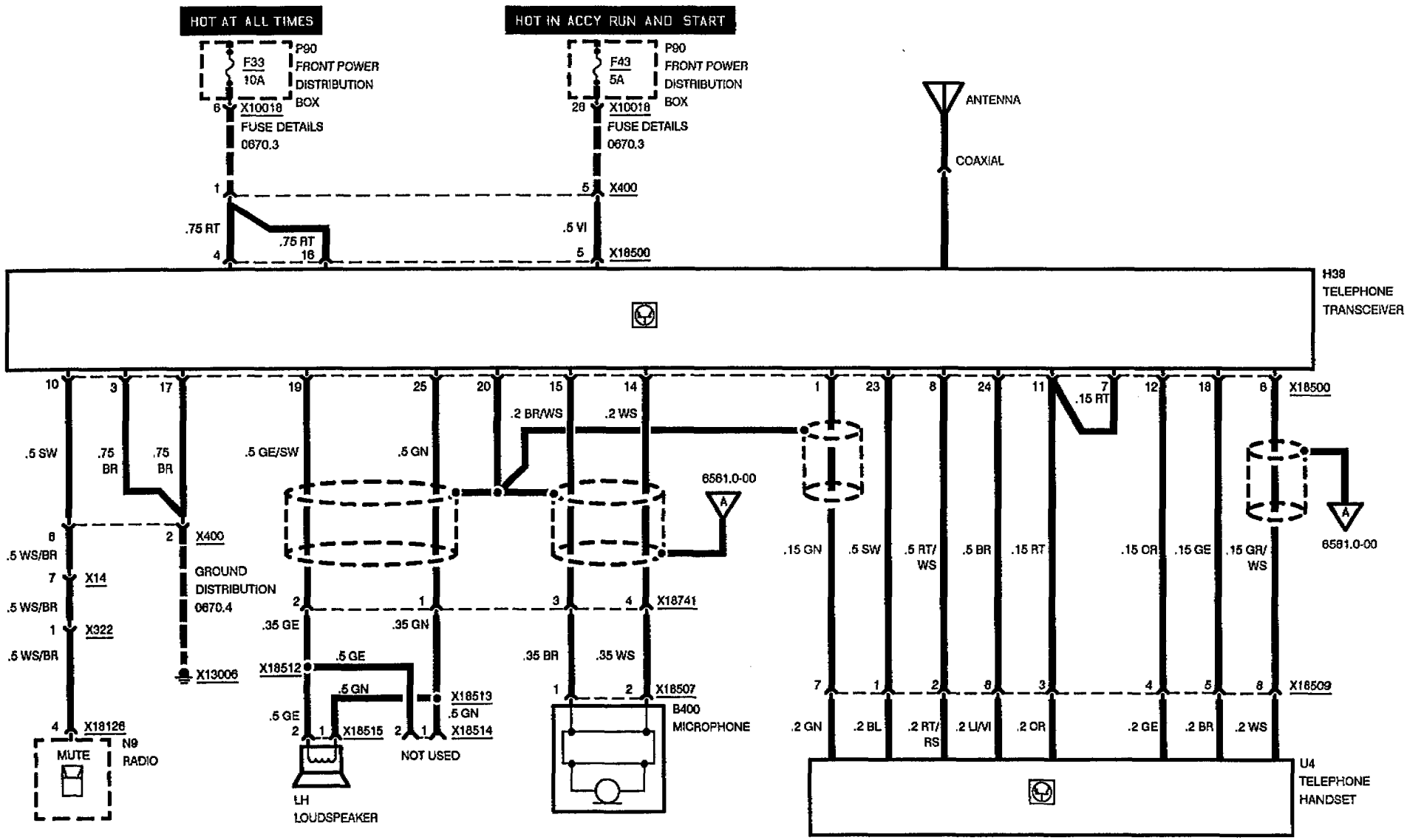
RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM

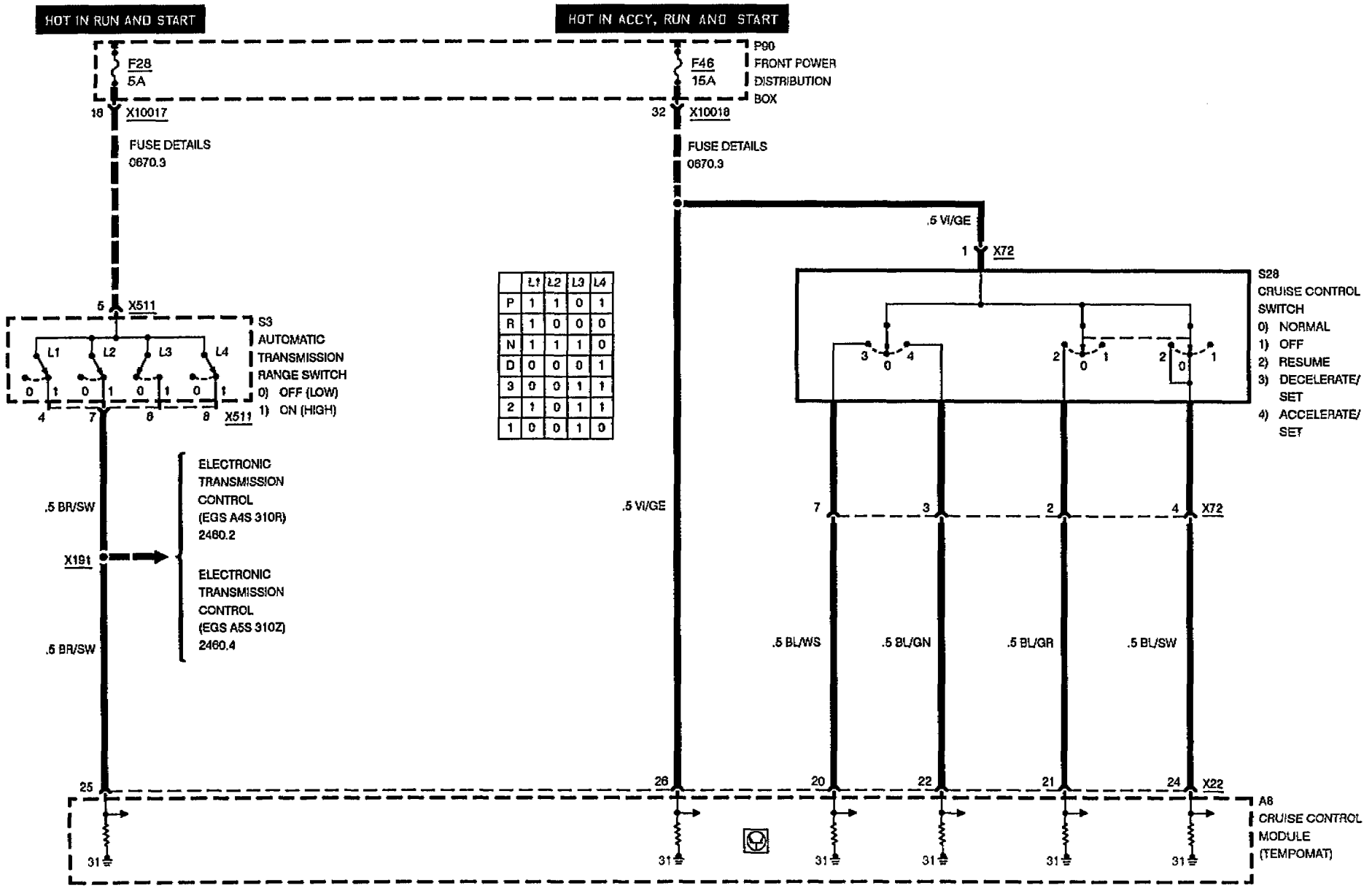


CELLULAR TELEPHONE (PROVISIONS)

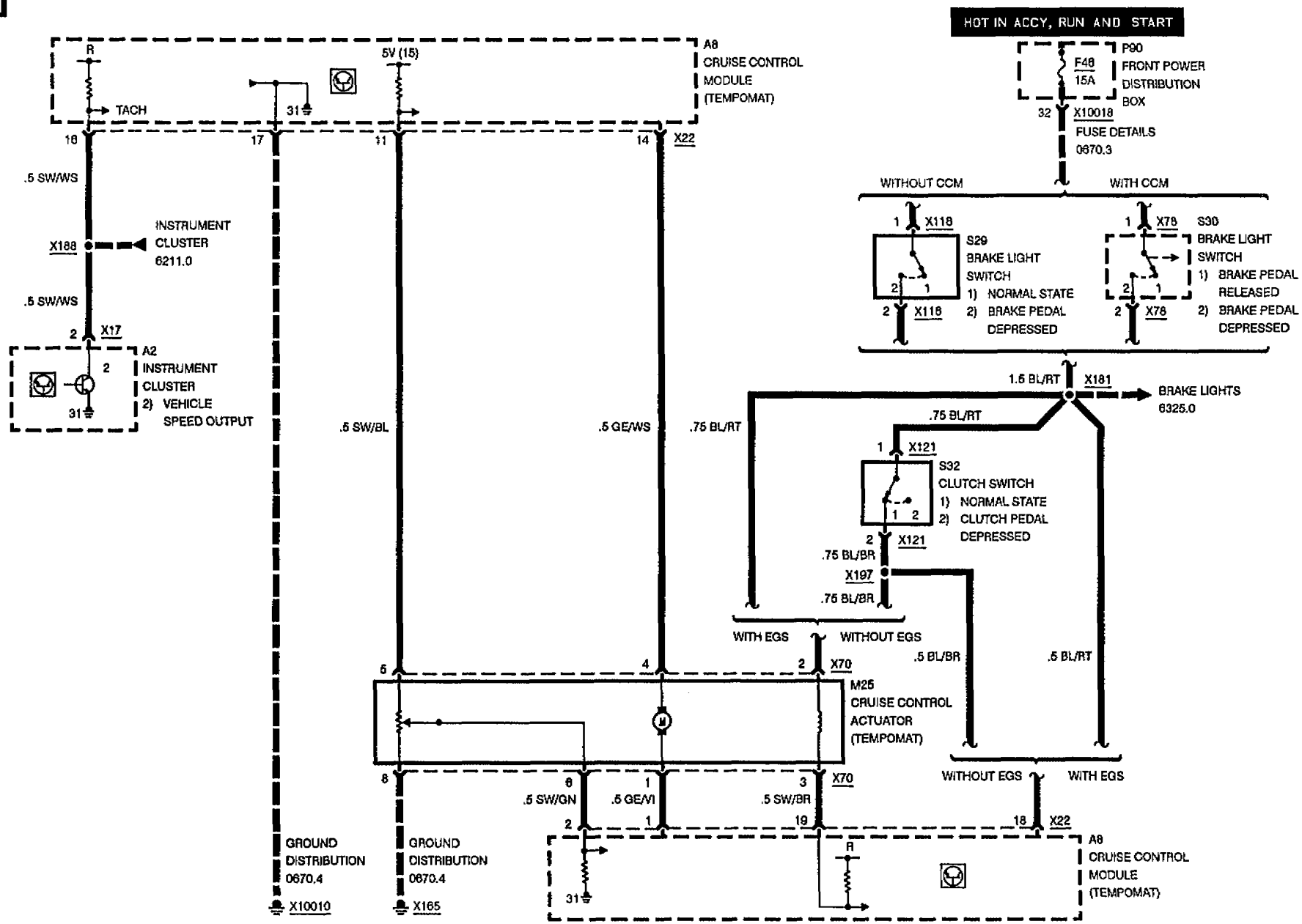
AMPS SYSTEM



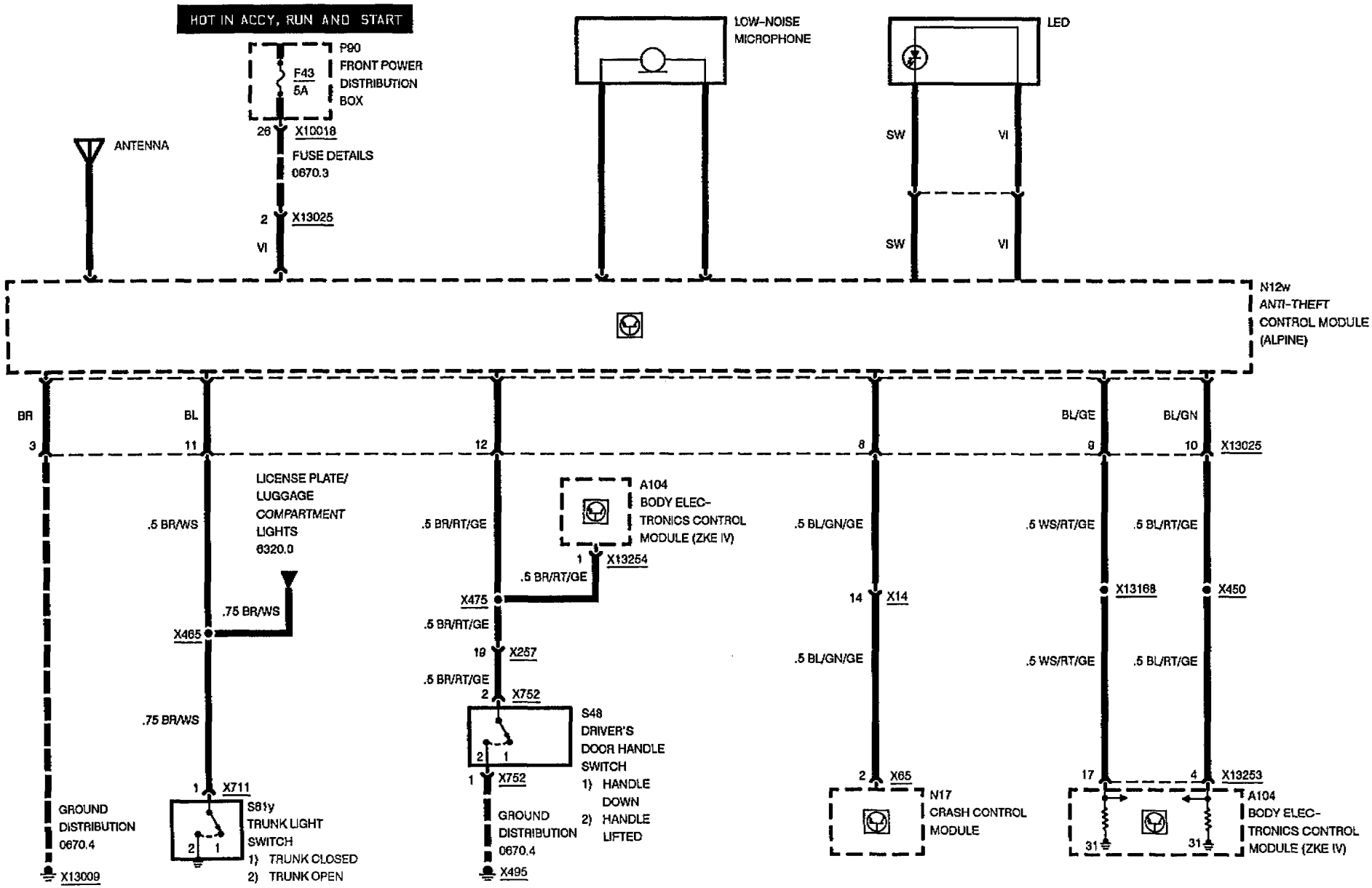
CRUISE CONTROL (TEMPOMAT)



CRUISE CONTROL (TEMPOMAT)



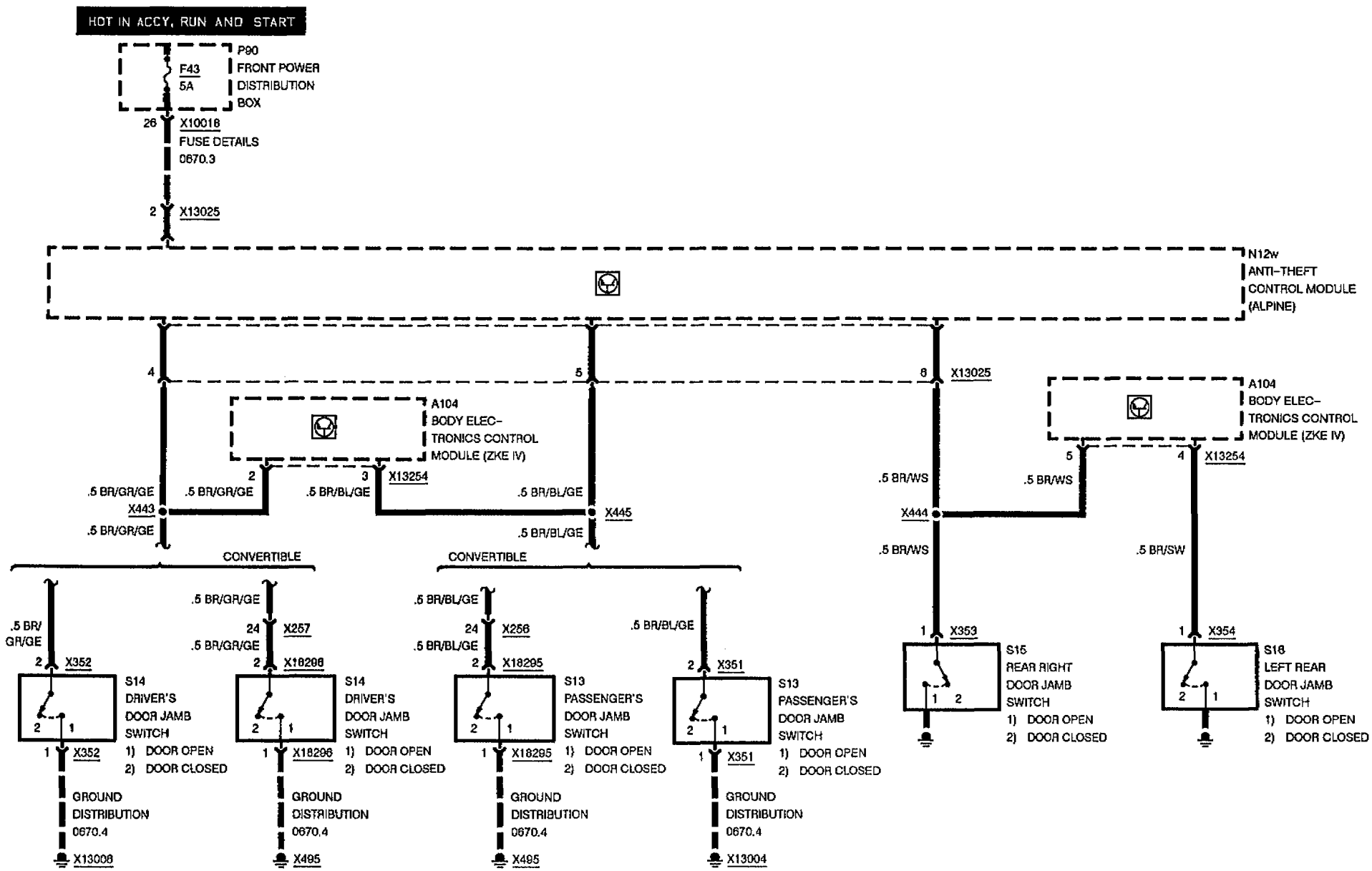
ANTI-THEFT SYSTEM (ALPINE)



ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

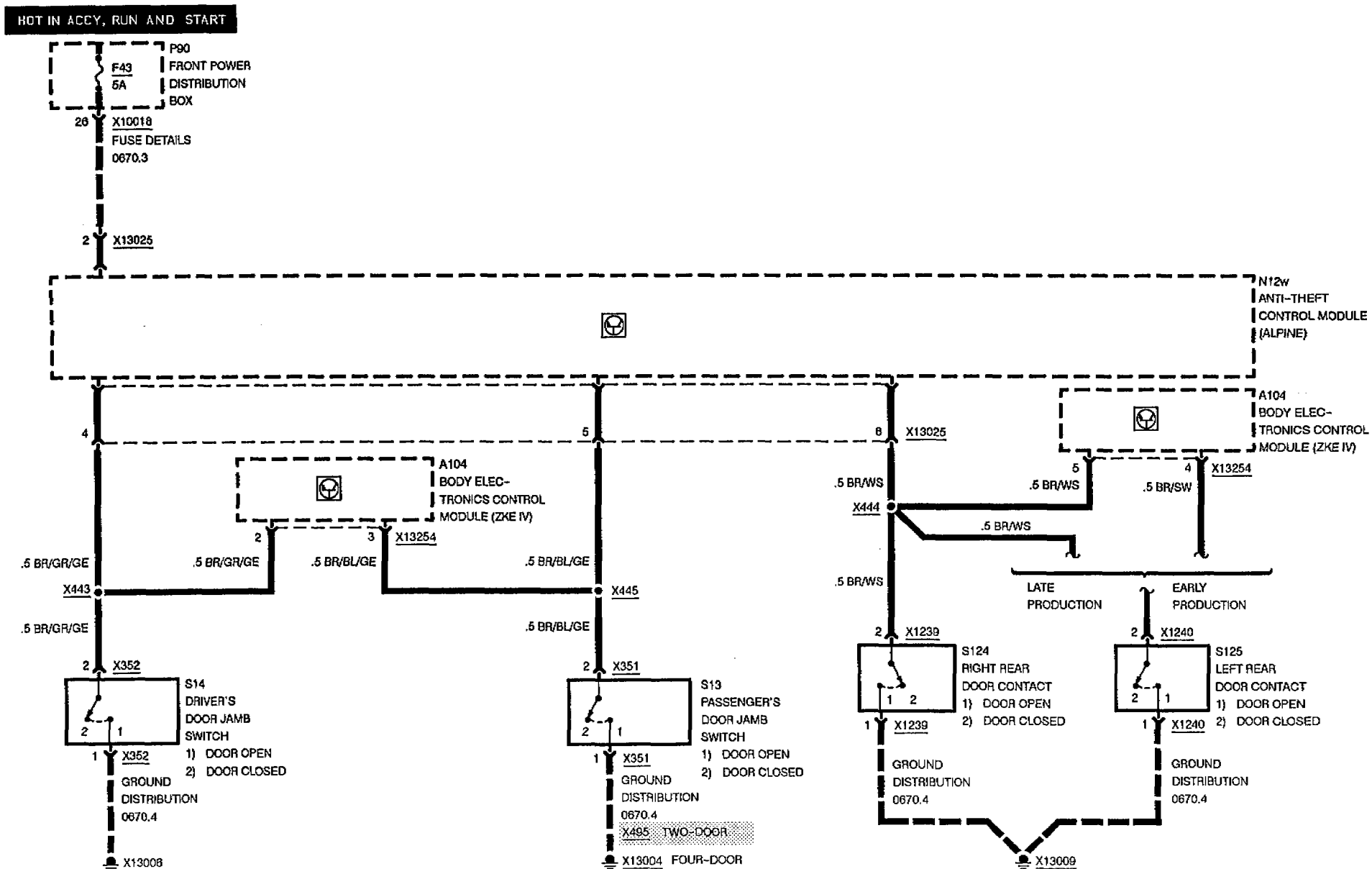
EARLY PRODUCTION



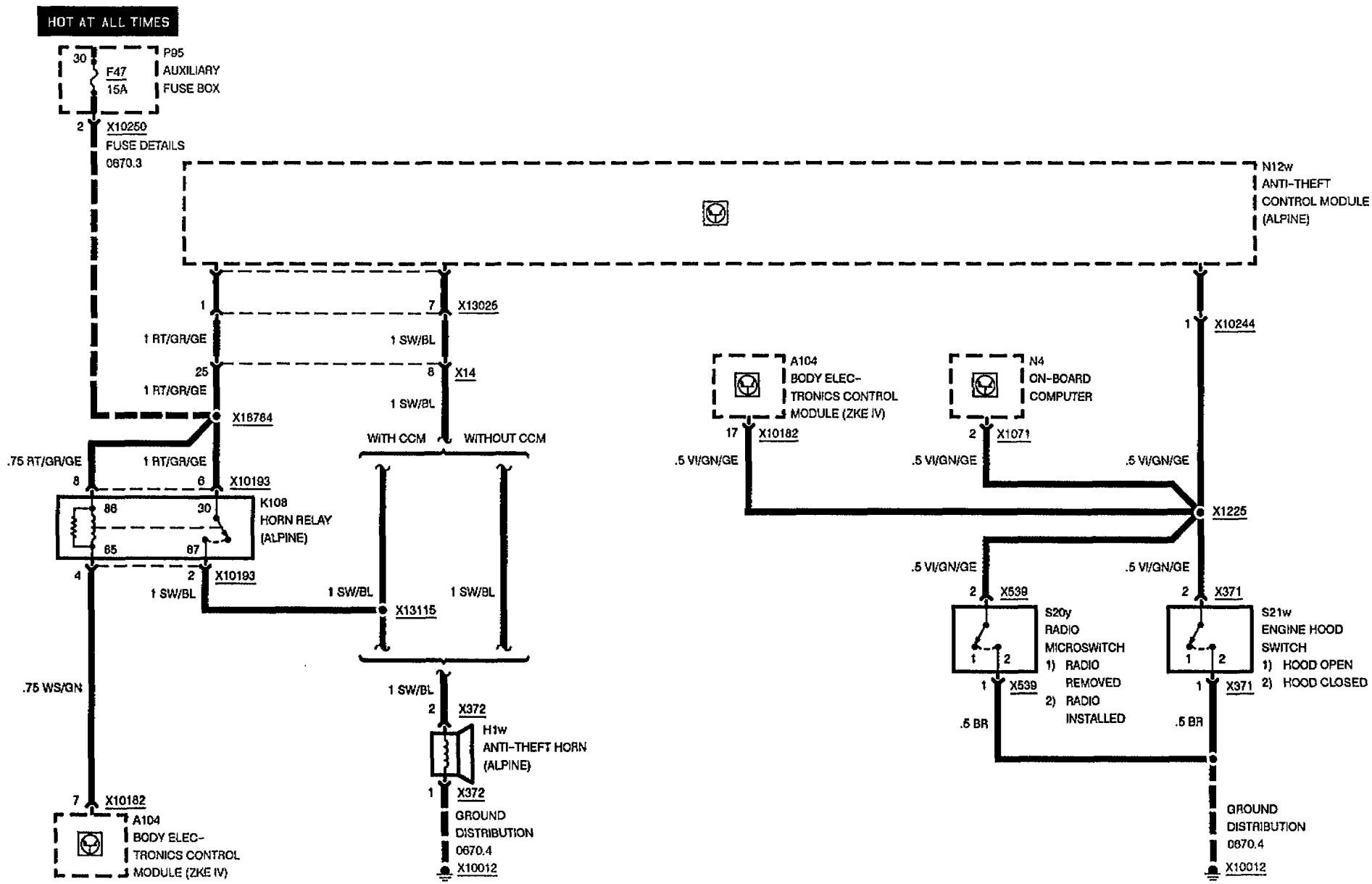
ANTI-THEFT SYSTEM (ALPINE)

FRONT AND REAR DOOR JAMB SWITCHES

LATE PRODUCTION

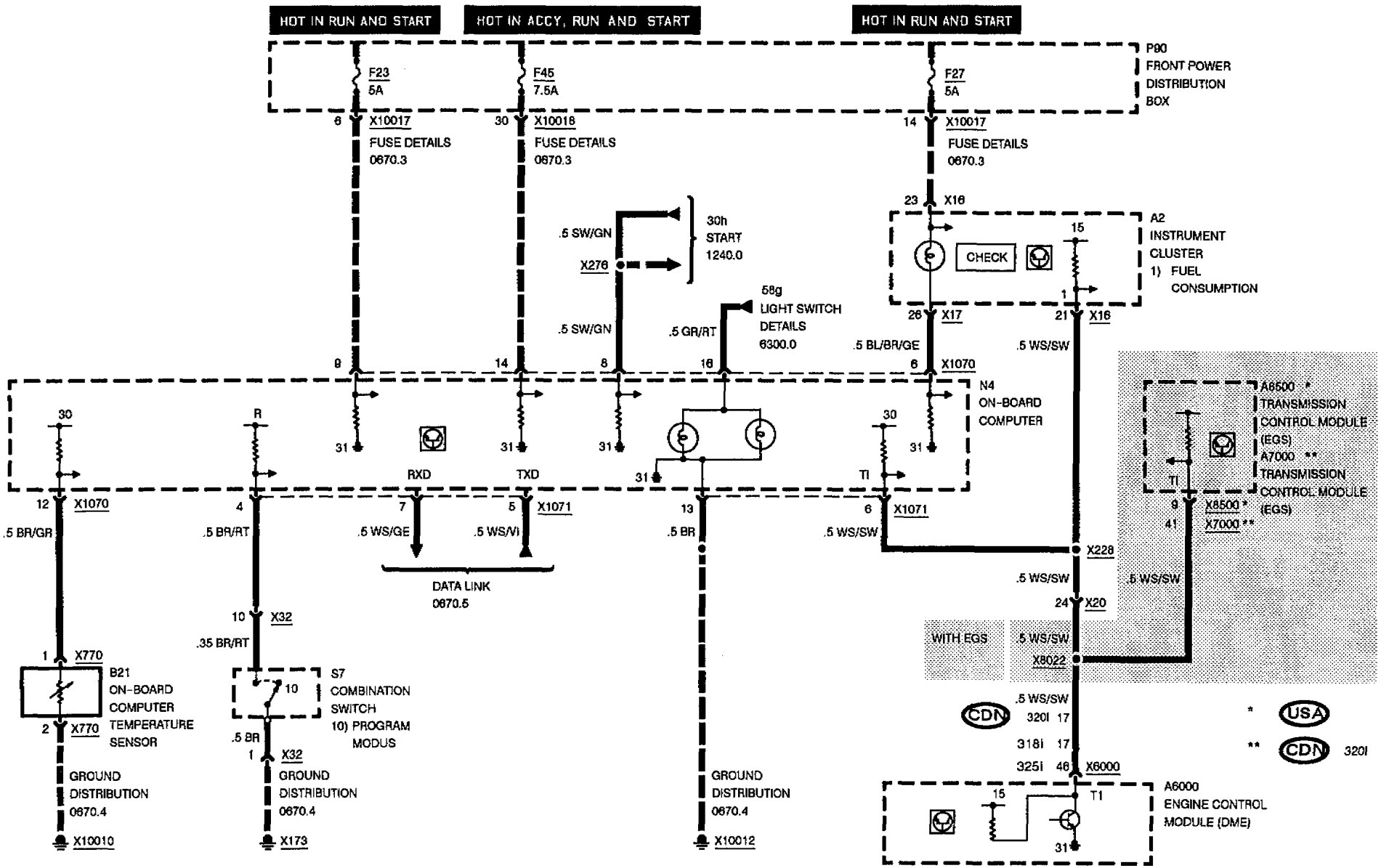


ANTI-THEFT SYSTEM (ALPINE)



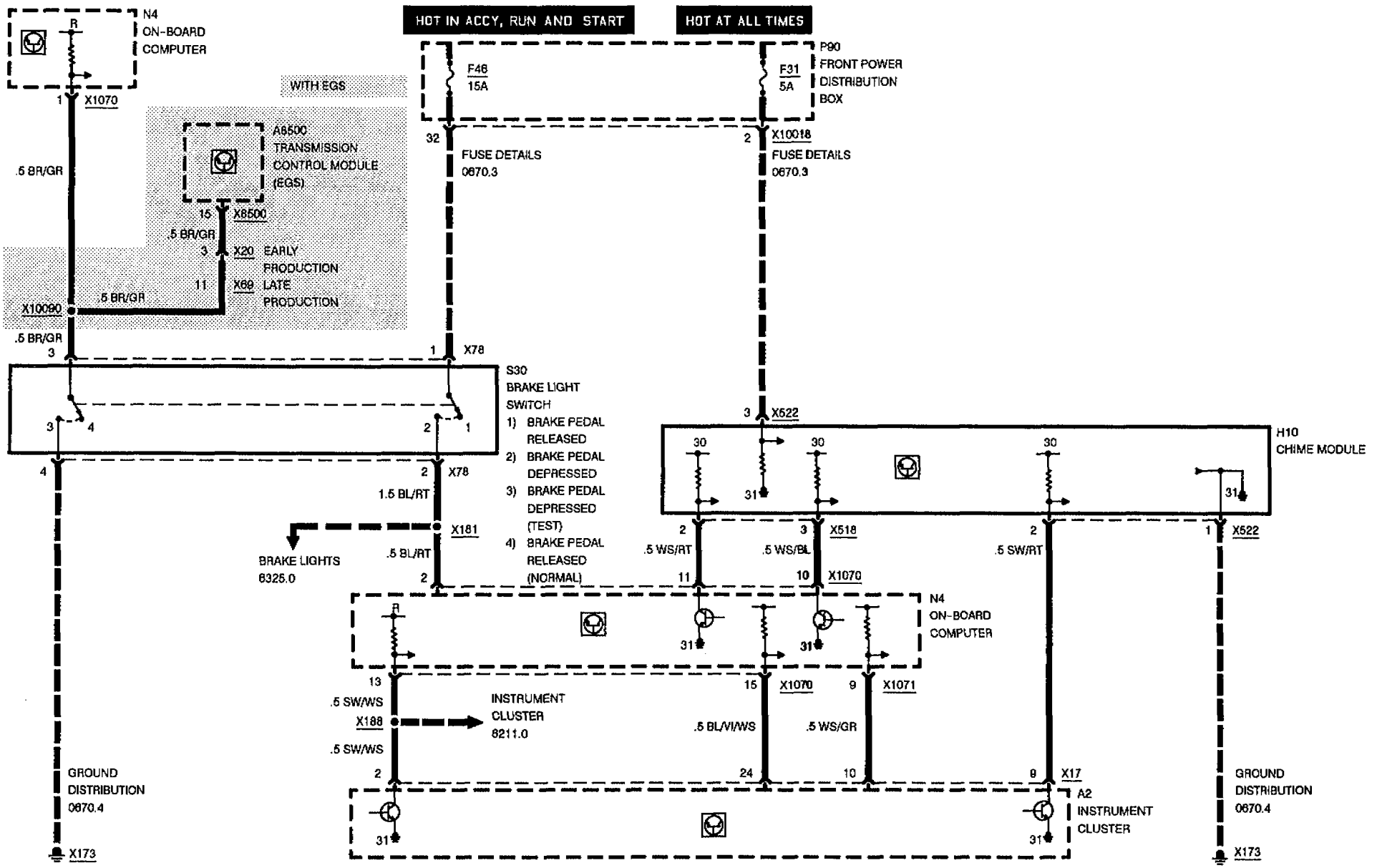
ON-BOARD COMPUTER (BC V)

POWER



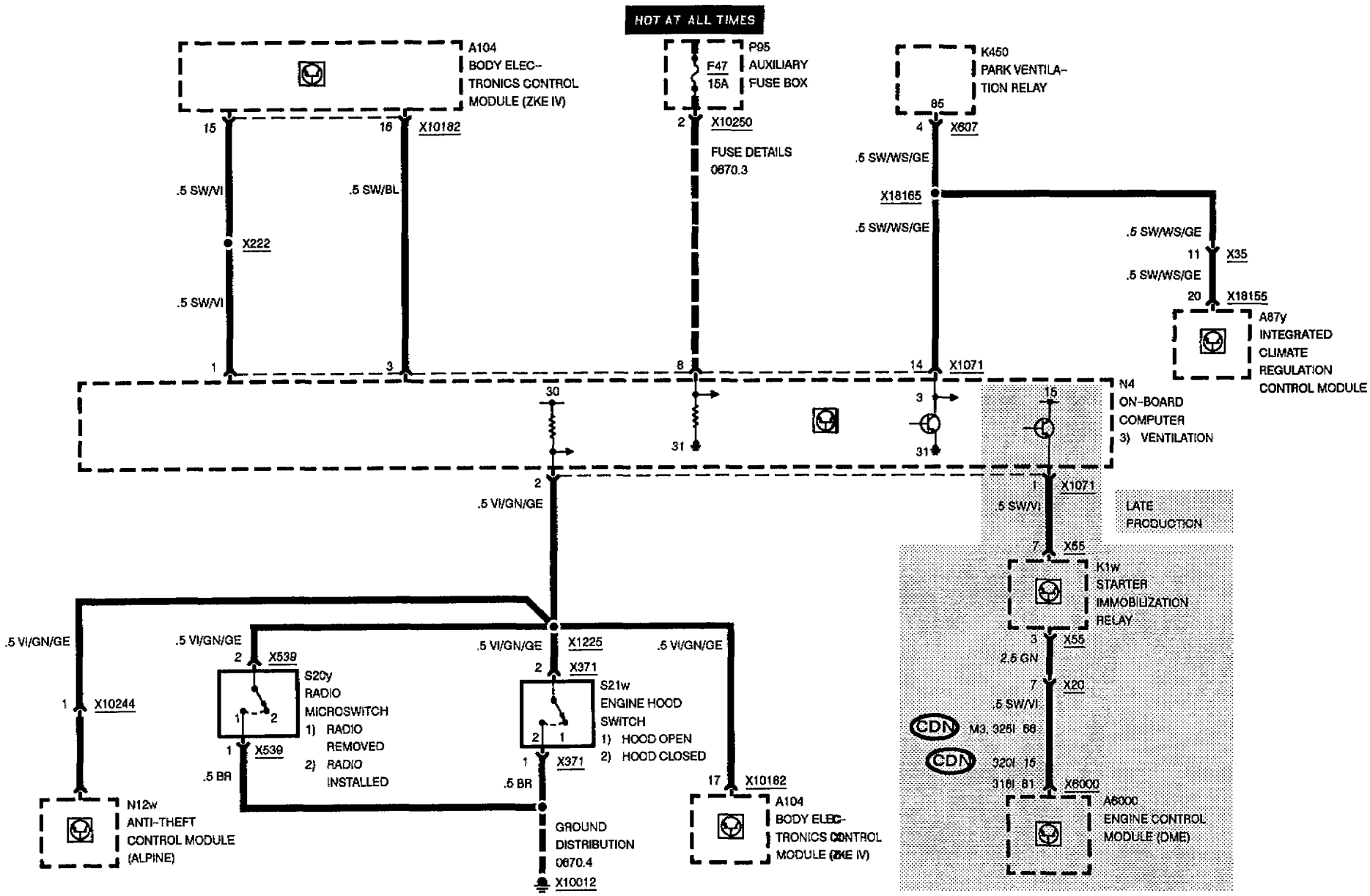
ON-BOARD COMPUTER (BC V)

CHIME, BRAKE LIGHT SWITCH



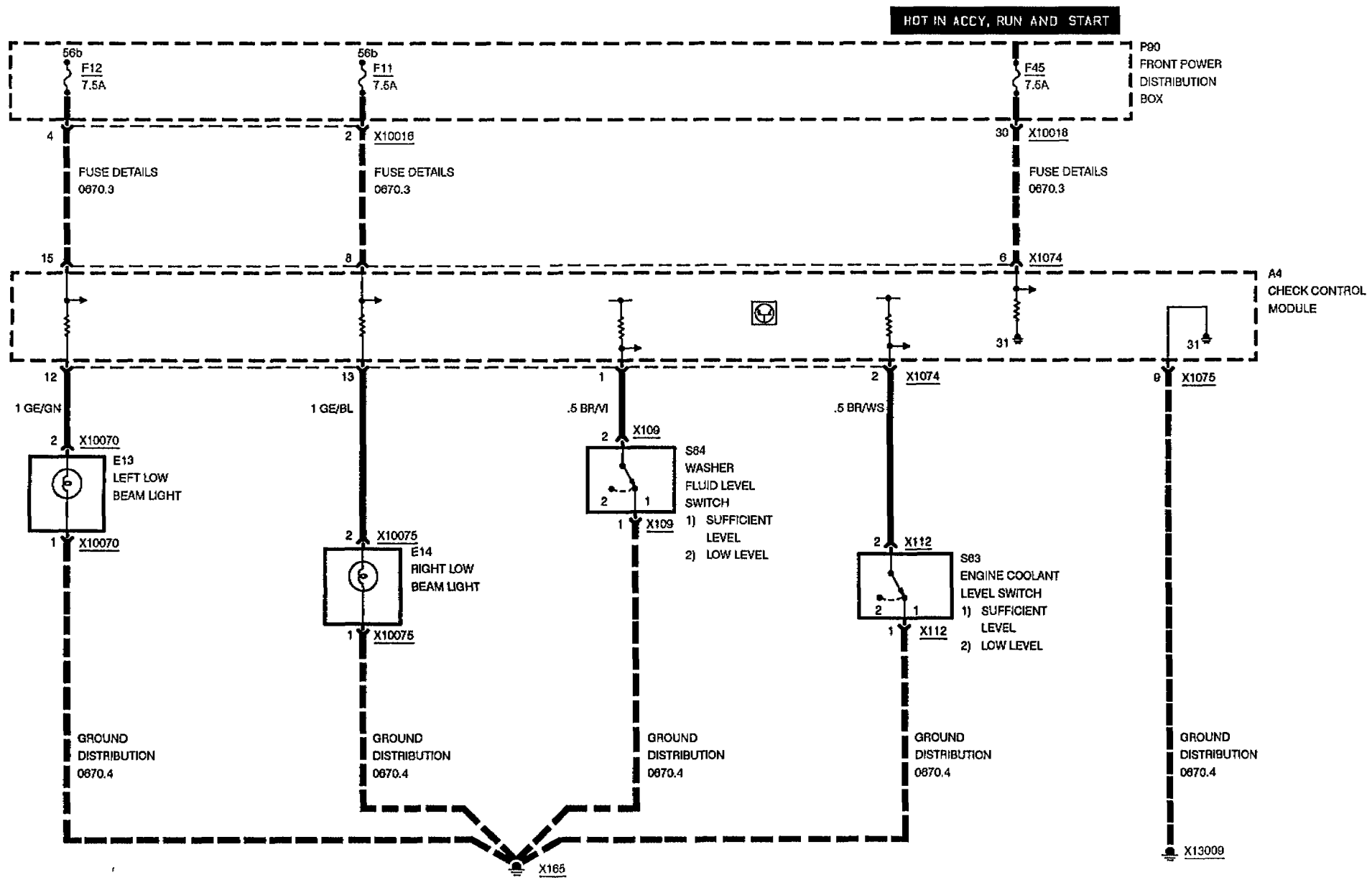
ON-BOARD COMPUTER (BC V)

DRIVE-AWAY PROTECTION



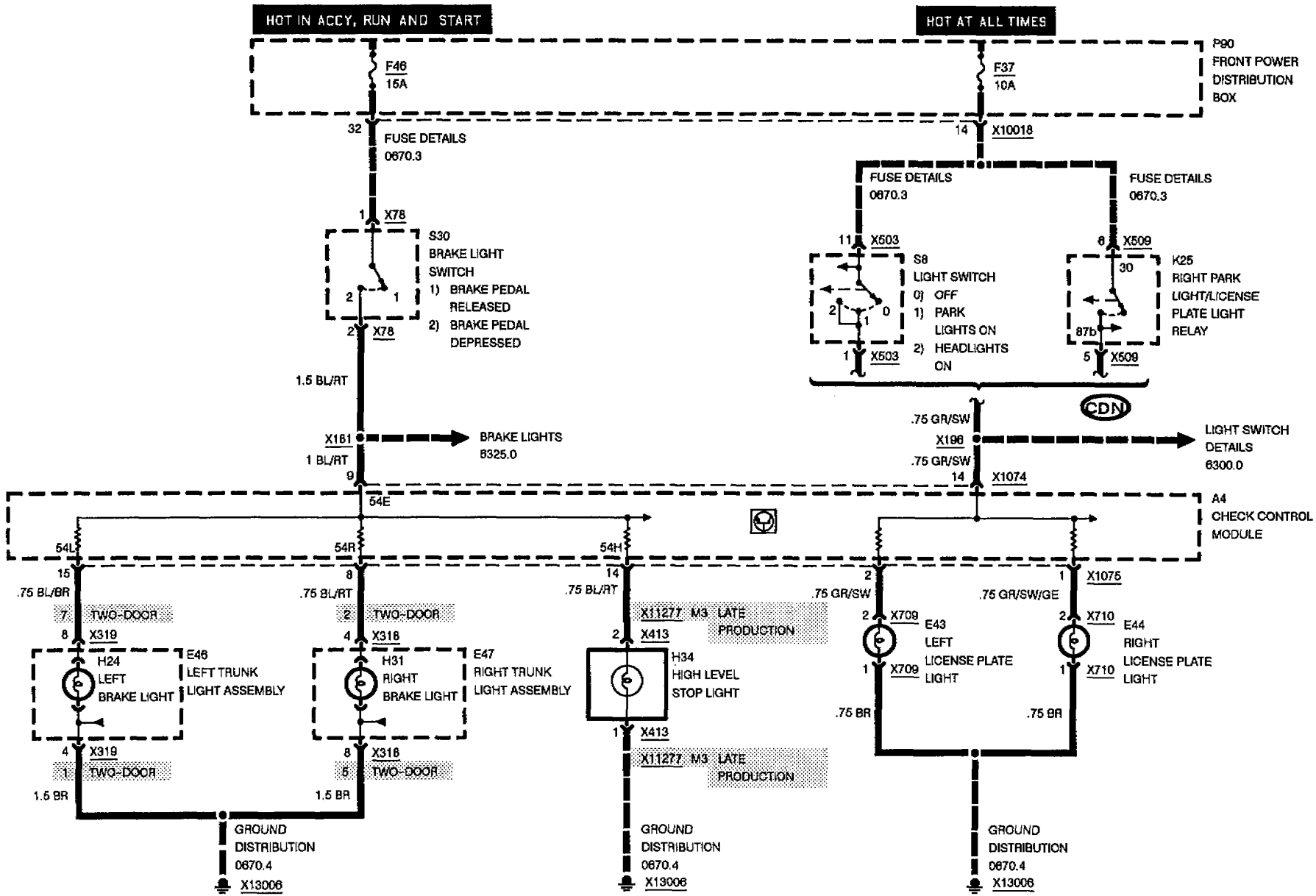
ON-BOARD COMPUTER (BC V)

CHECK CONTROL



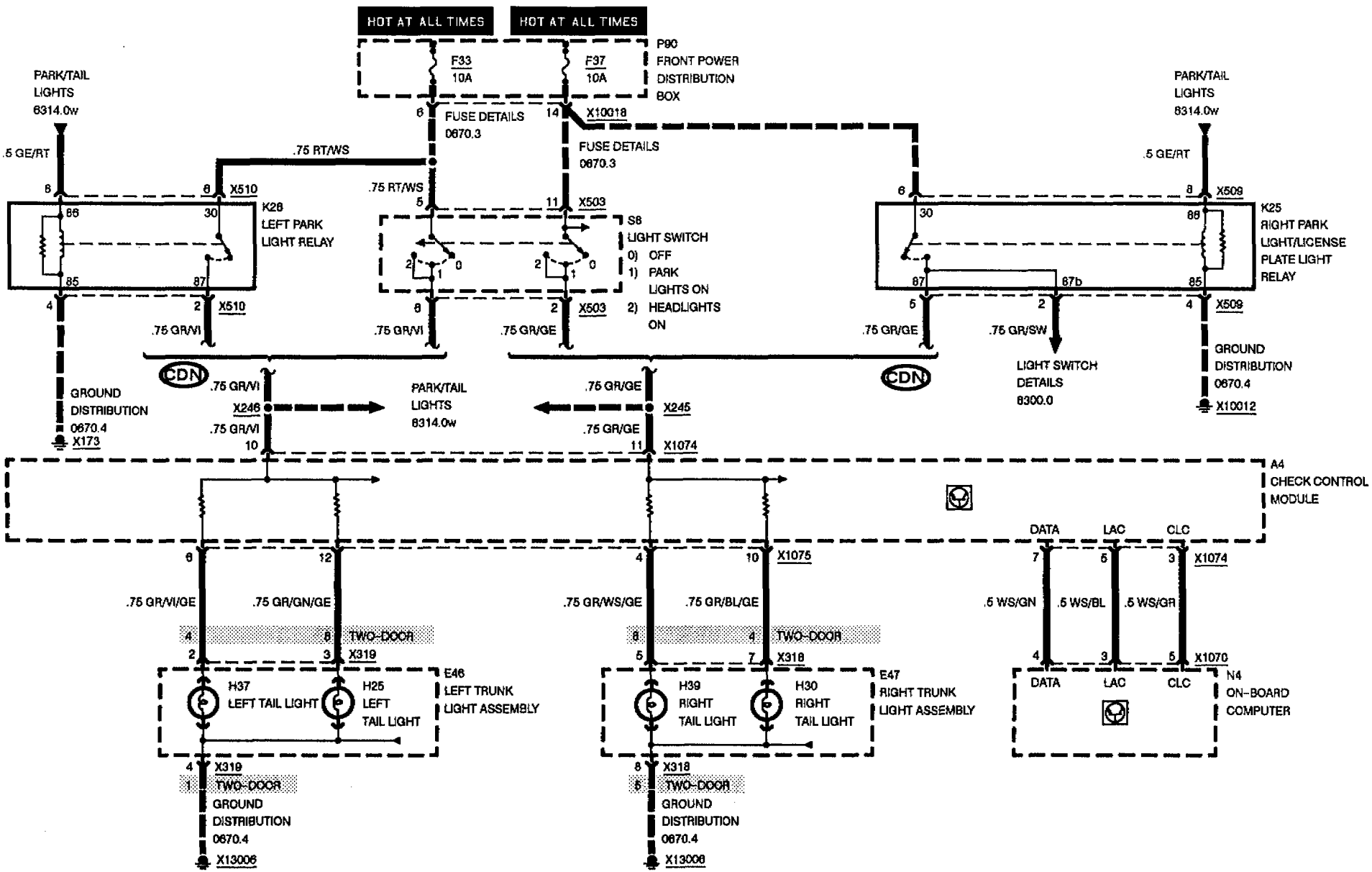
ON-BOARD COMPUTER (BC V)

CHECK CONTROL



ON-BOARD COMPUTER (BC V)

CHECK CONTROL



COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

COMPONENT

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

COMPONENT

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

COMPONENT

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

BMW 3 COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

COMPONENT

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

COMPONENT LOCATION CHART

COMPONENT

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

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

COMPONENT LOCATION CHART

COMPONENT

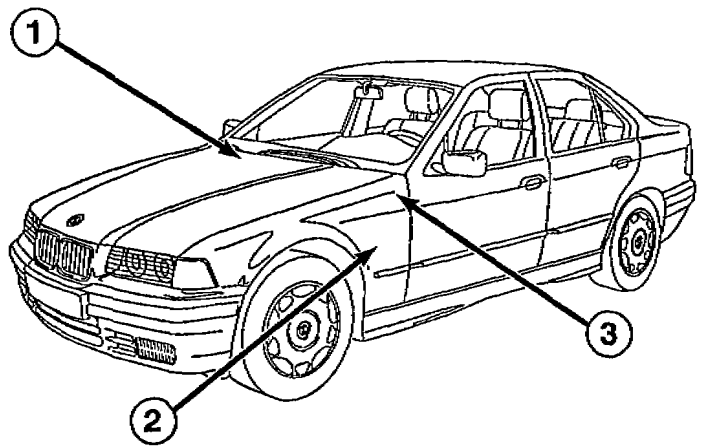
			PAGE – FIGURE 7100.0	8500.0
X18500	CONNECTOR (25-PINS, (---))	Center console		
X18507	CONNECTOR (2-PINS, (---))	Center console		
X18509	CONNECTOR (8-PINS, (---))	Center console		
X18515	CONNECTOR (2-PINS, (---))	LH side of LH footwell behind trim panel		
X18518	CONNECTOR (3-PINS, BLACK)	Under RH front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

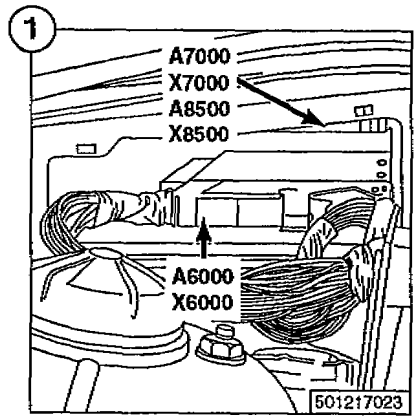
COMPONENT LOCATION CHART

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

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

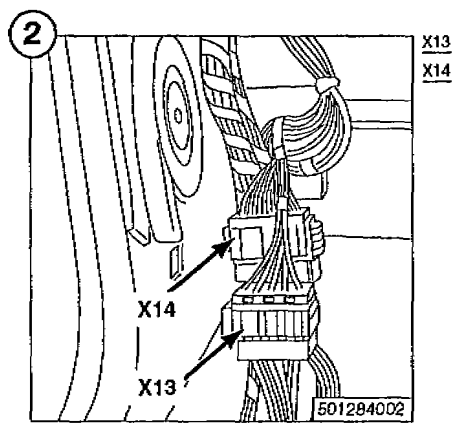




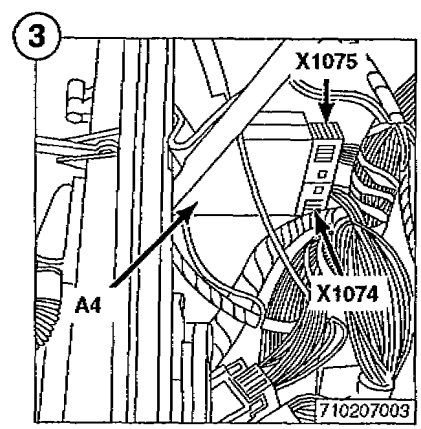
A6000 X6000
ENGINE CONTROL MODULE (DME) X7000 X8500

A7000
TRANSMISSION CONTROL MODULE (EGS)

A6500
TRANSMISSION CONTROL MODULE (EGS)



X13
X14

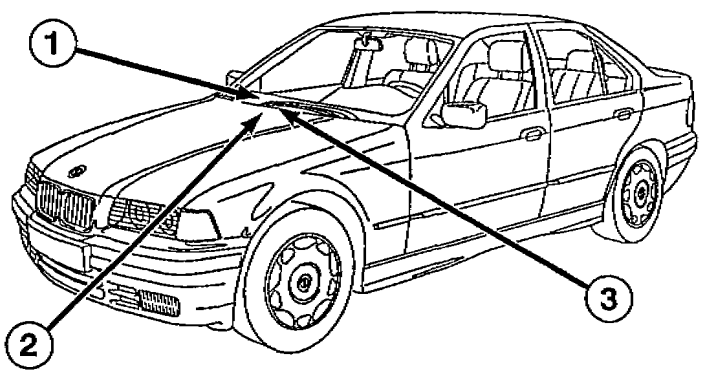


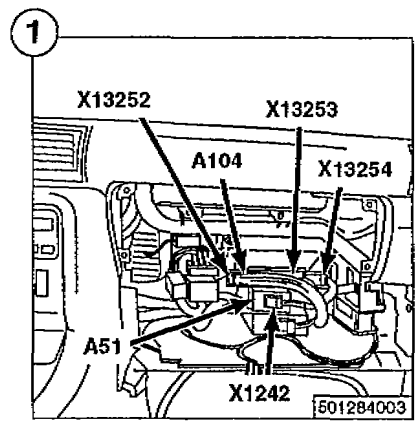
A4
CHECK CONTROL MODULE

X1074
X1075

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

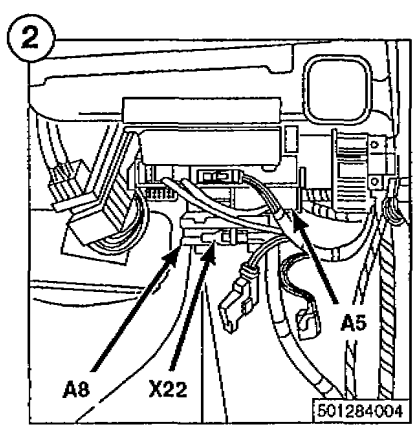




A104
BODY ELEC-
TRONICS CONTROL
MODULE (ZKE IV)

A51
WIPER/WASHER
MODULE

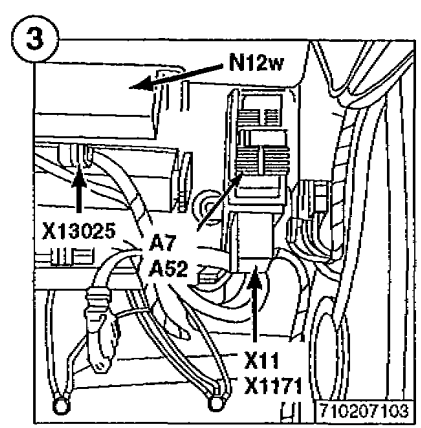
X1242
X13252
X13253
X13254



A5
RELAY MODULE

A8
CRUISE CONTROL
MODULE
(TEMPOMAT)

X22



A7
SLIP CONTROL
MODULE (ABS)

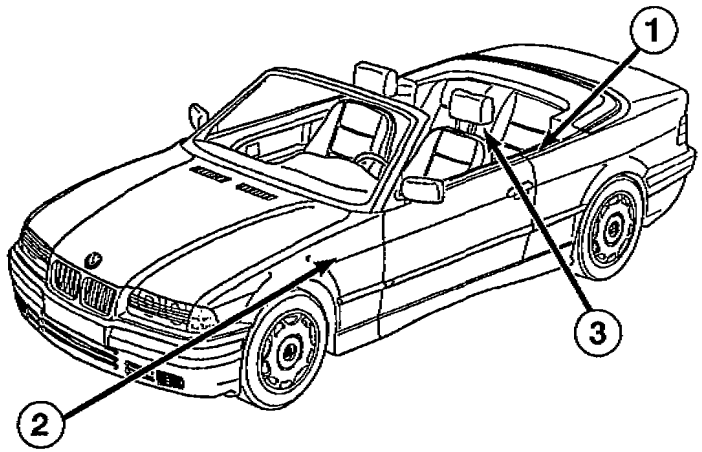
X11
X1171
X13025

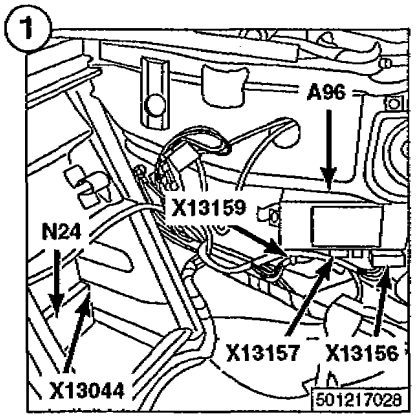
A52
SLIP CONTROL
MODULE
(ABS/ASC)

N12w
ANTI-THEFT
CONTROL MODULE
(ALPINE)

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

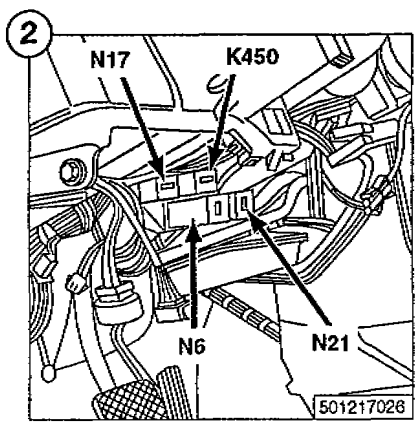




A96
CONVERTIBLE TOP CONTROL MODULE

N24
ROLLOVER SENSOR

X13044
X13156
X13157
X13159

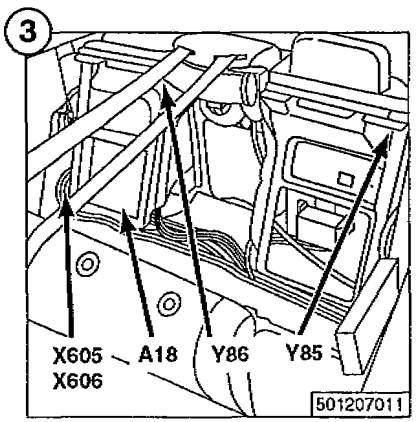


N6
HEADLIGHT/ FOGLIGHT CLEANING MODULE (SRA)

K450
PARK VENTILATION RELAY

N17
CRASH CONTROL MODULE

N21
TWIN RELAY MODULE



A18
HIFI AMPLIFIER

X605
X606

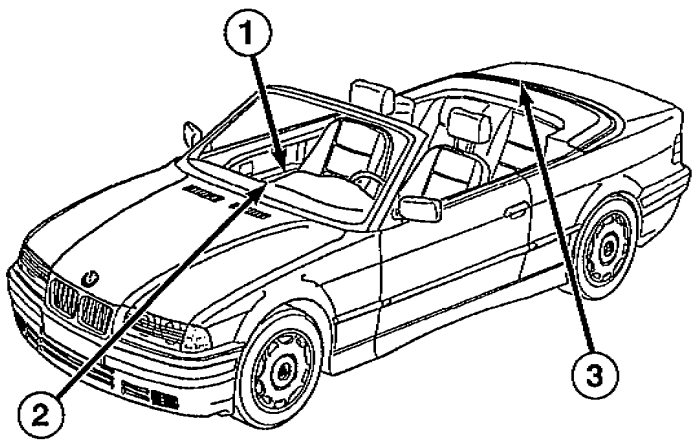
Y85
LH ROLLOVER PROTECTION ACTUATOR

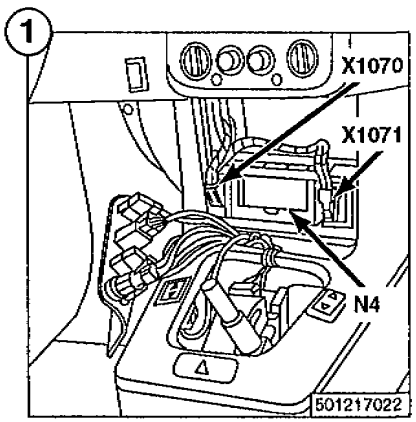
Y86
RH ROLLOVER PROTECTION ACTUATOR

CONVERTIBLE

COMPONENT LOCATION VIEWS

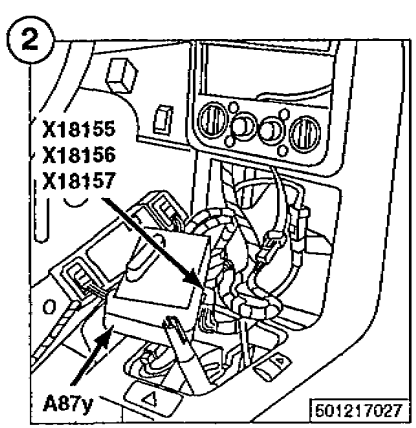
ELECTRICAL CONTROL MODULE LOCATIONS





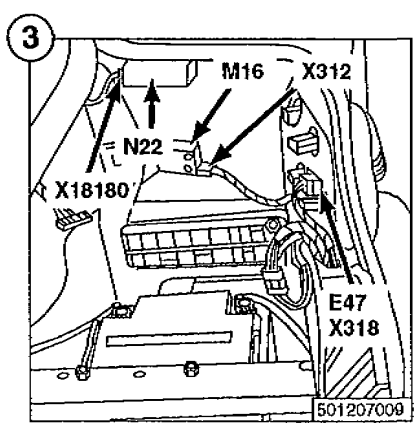
N4
ON-BOARD
COMPUTER

X1070
X1071



A87y
INTEGRATED
CLIMATE
REGULATION
CONTROL MODULE

X18155
X18156
X18157



E47
RIGHT TRUNK
LIGHT ASSEMBLY

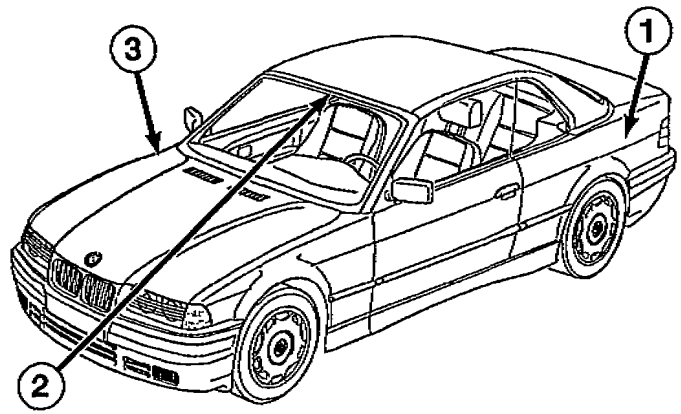
X312
X318
X18180

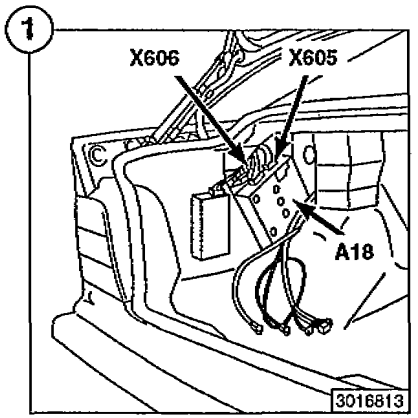
M16
GAS FILLER
LOCK MOTOR

N22
CD CHANGER

COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

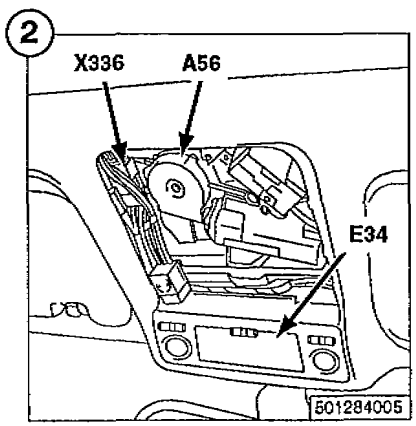




A18
HIFI AMPLIFIER

X605
X606

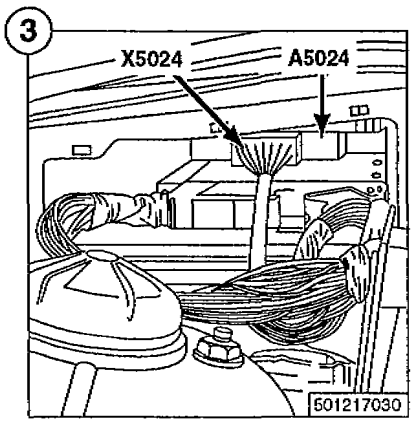
FOUR-DOOR



A56
SUNROOF CONTROL
ASSEMBLY

E34
FRONT DOME
LIGHT/
MAP READING
ASSEMBLY

X338



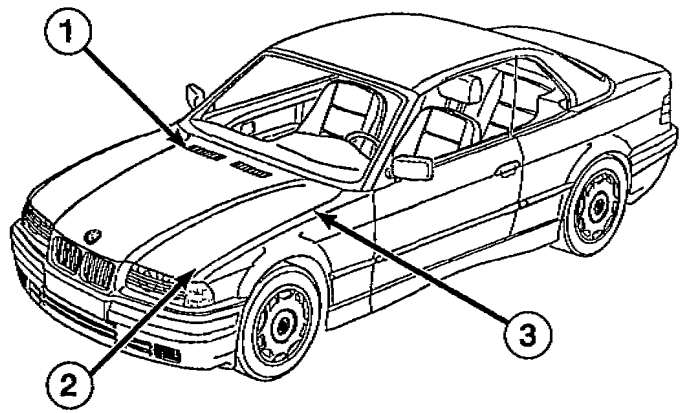
A5024
VARIABLE
CAMSHAFT
CONTROL MODULE
(VANOS)

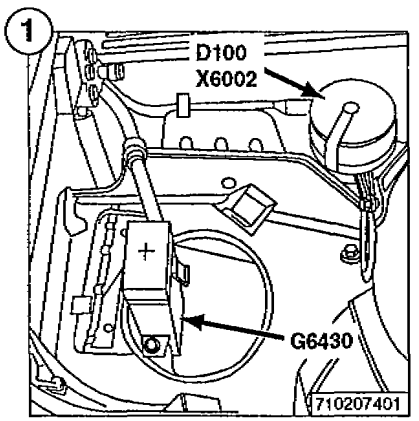
X5024

M3 CDN

COMPONENT LOCATION VIEWS

B(+)

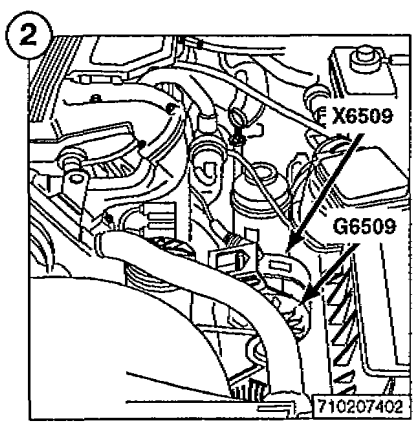




D100
DATA LINK
CONNECTOR

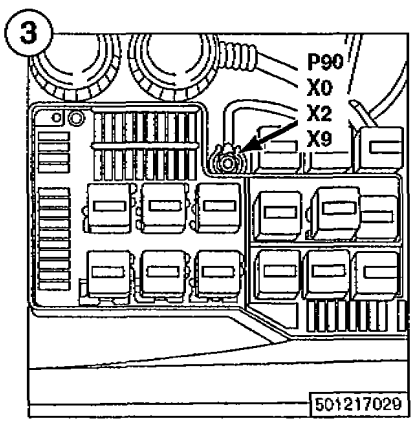
G6430
B+
JUMP START
JUNCTION POINT

X6002



G6509
GENERATOR

X6509
CABLE SOCKET
ALTERNATOR B+



P90
FRONT POWER
DISTRIBUTION
BOX

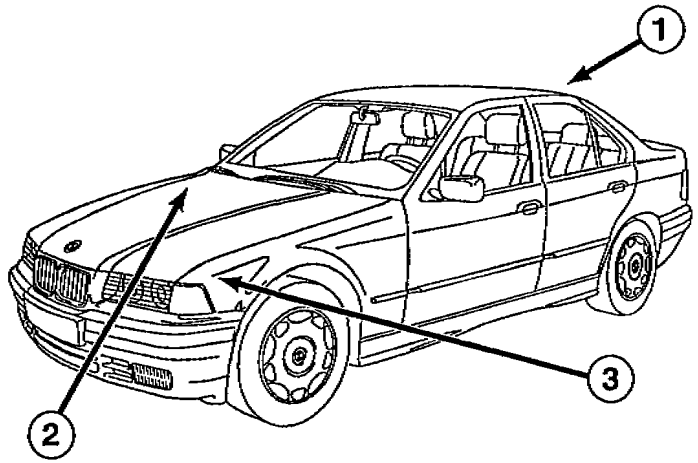
X0
B+
JUNCTION POINT

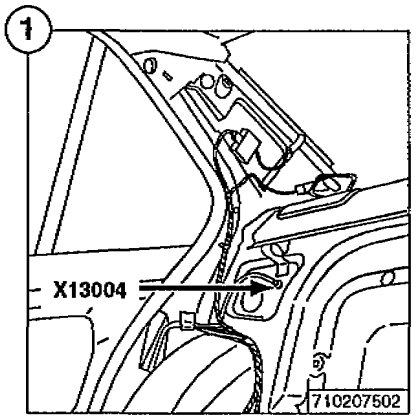
X2
BATTERY
B+ START POINT

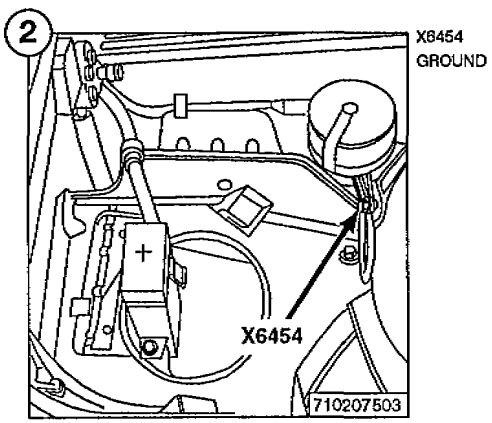
X9
B+
JUNCTION POINT

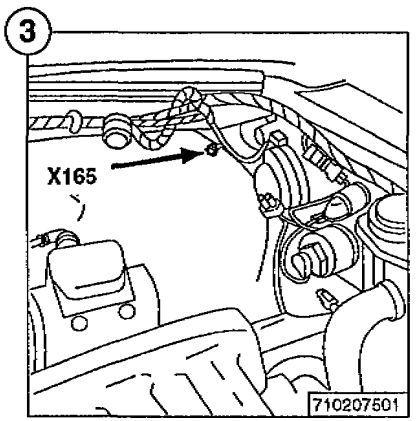
COMPONENT LOCATION VIEWS

B(-)



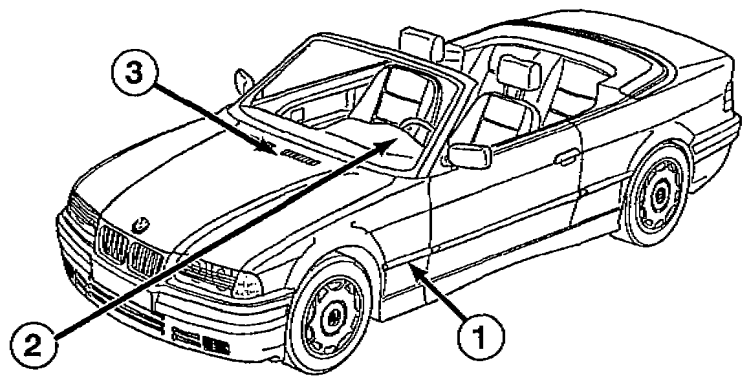


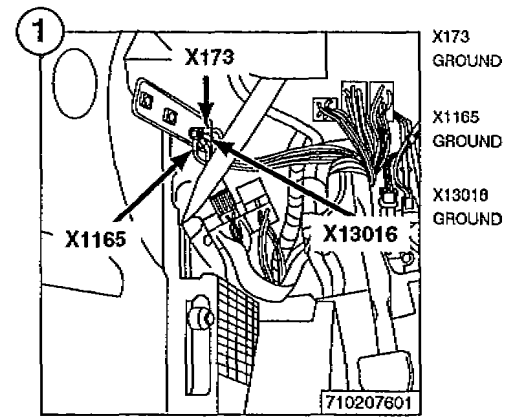


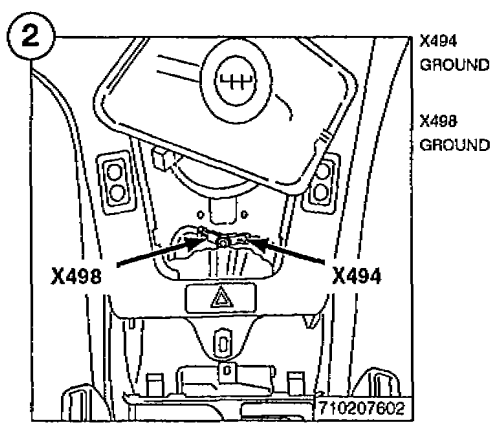


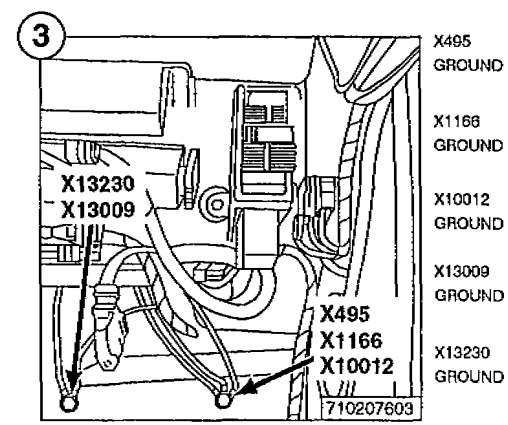
COMPONENT LOCATION VIEWS

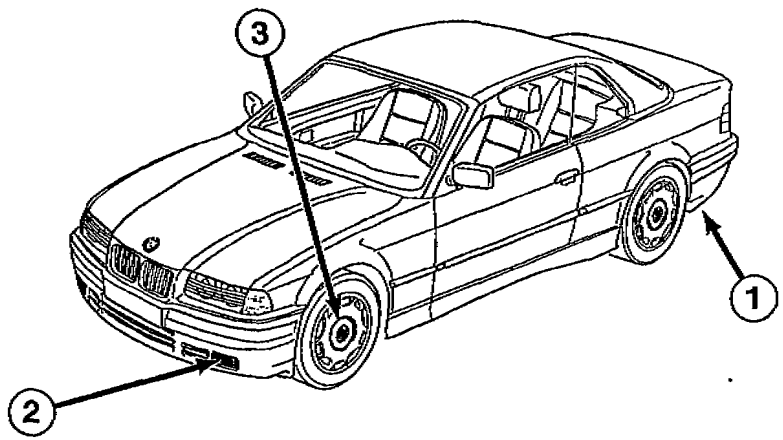
B(-)

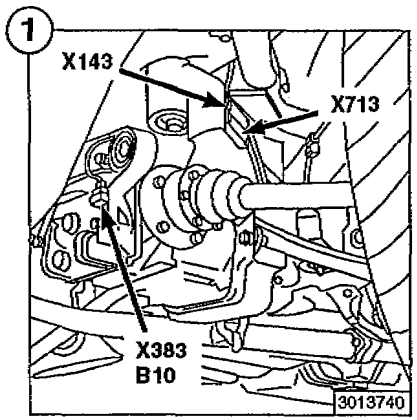






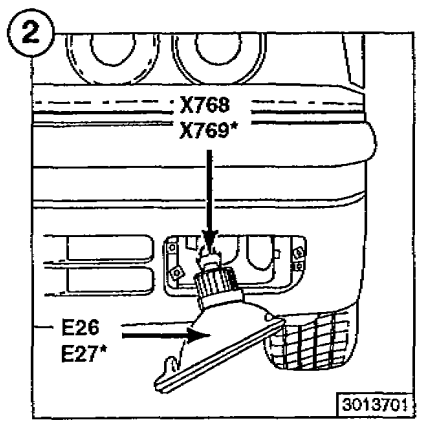






B10
VEHICLE
SPEED SENSOR

X143
X383
X713

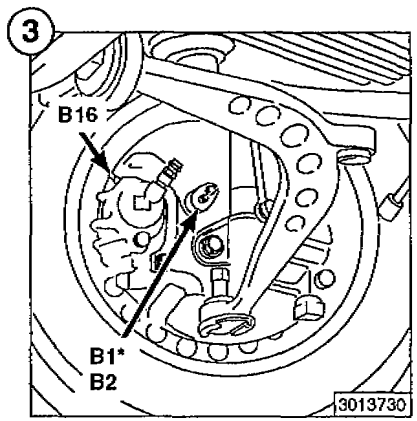


E26
LEFT
FOG LIGHT

E27 *
RIGHT
FOG LIGHT

X768
X769 *

* RH similar



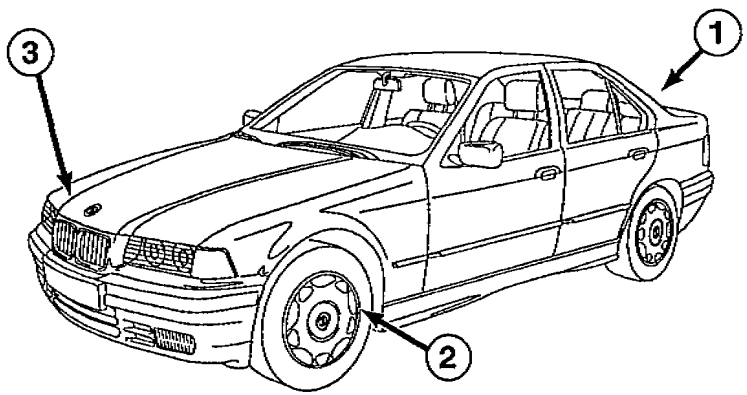
B1 *
RIGHT FRONT
SPEED SENSOR
- ABS

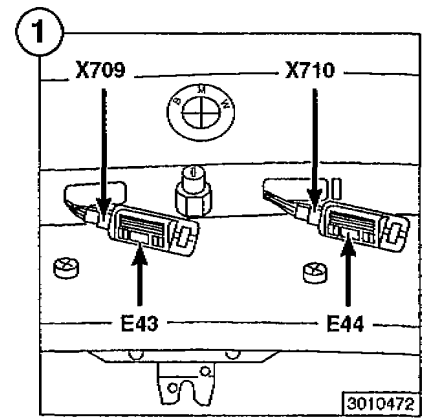
B2
LEFT FRONT
SPEED SENSOR
- ABS

B16
LEFT FRONT
BRAKE PAD
SENSOR

* RH similar

COMPONENT LOCATION VIEWS

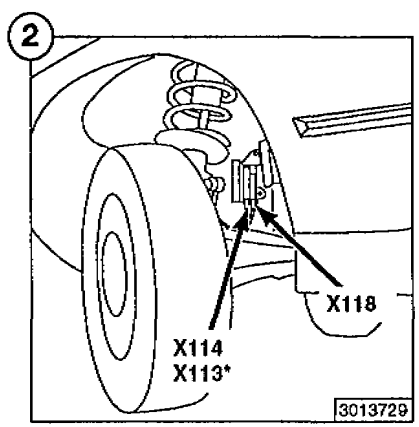




E43
LEFT
LICENSE PLATE
LIGHT

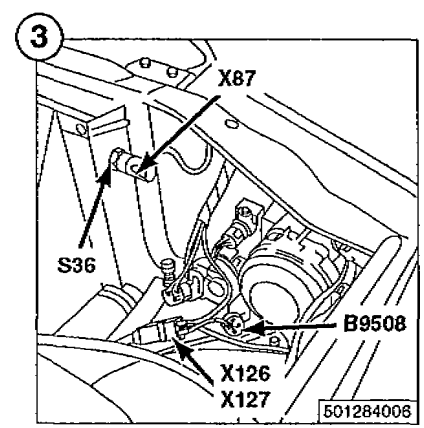
E44
RIGHT
LICENSE PLATE
LIGHT

X709
X710



X113 *
X114
X118

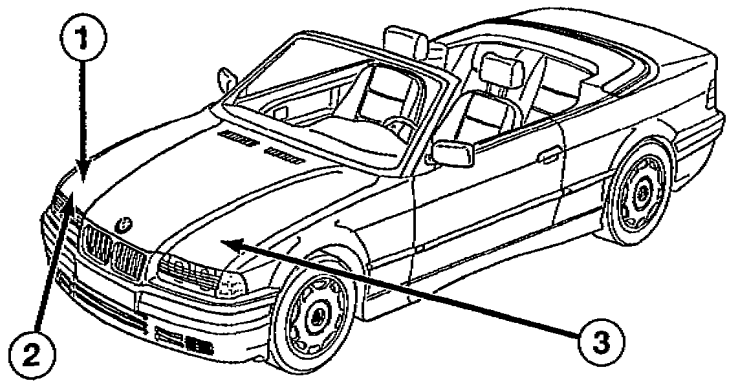
* RH similar

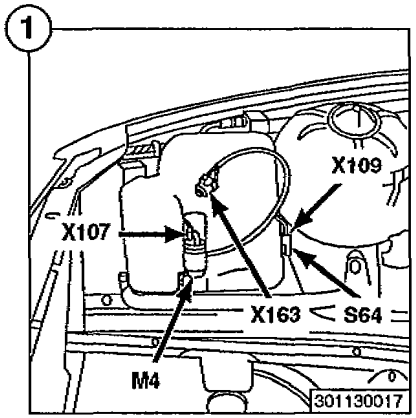


B9508
PRESSURE
SWITCH

S36
TEMPERATURE
SWITCH

X87
X126
X127

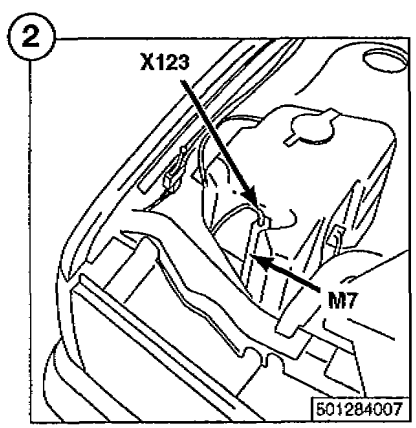




M4
WASHER PUMP

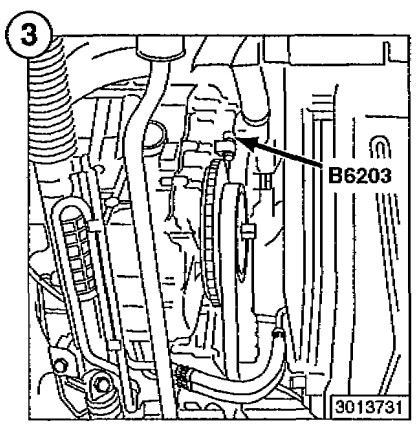
S64
WASHER
FLUID LEVEL
SWITCH

X107
X109
X163



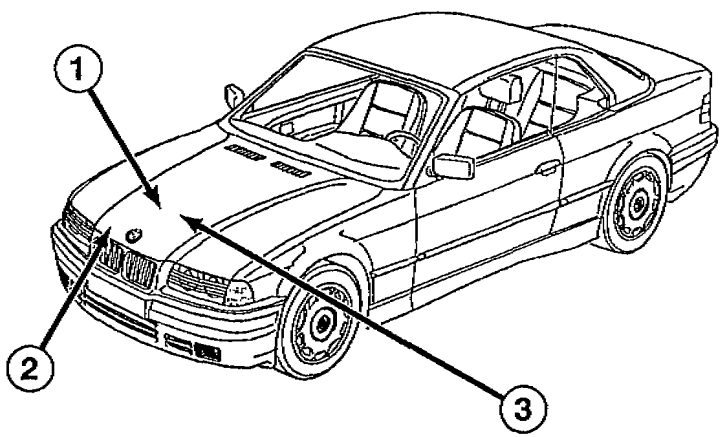
M7
HEADLIGHT/
FOG LIGHT
WASHER PUMP

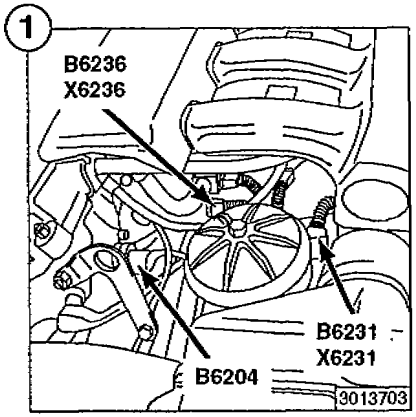
X123



B6203
CRANKSHAFT
POSITION/RPM
SENSOR

COMPONENT LOCATION VIEWS



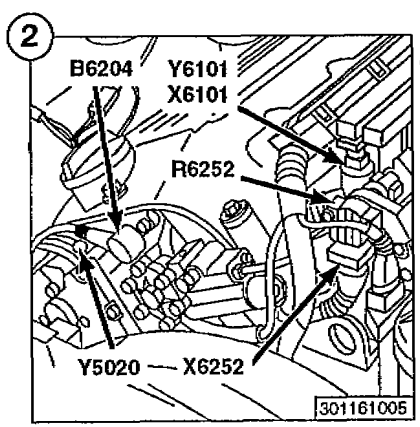


325I

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

B6231 OIL PRESSURE SWITCH

B6236 ENGINE COOLANT TEMPERATURE SENSOR

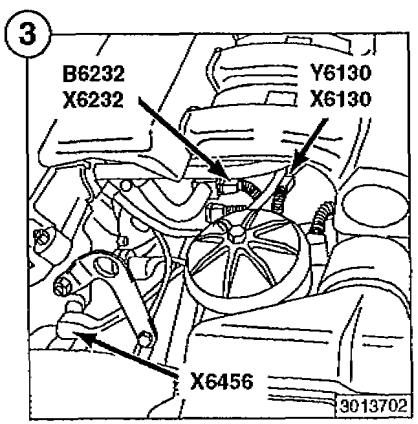


M3

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

R6252 THROTTLE POSITION SENSOR — X6101, X6252

Y5020 VARIABLE CAMSHAFT CONTROL VALVE 1

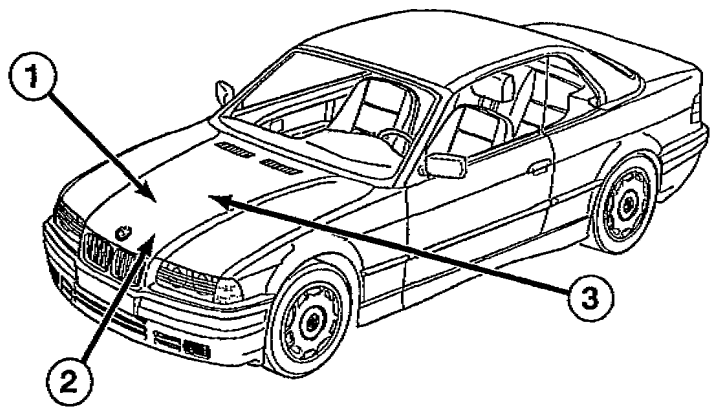


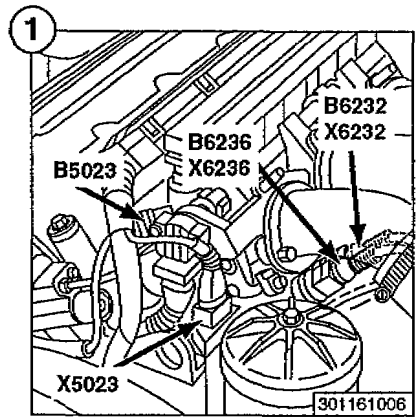
325I

B6232 ENGINE COOLANT TEMPERATURE SENSOR

Y6130 IDLE SPEED CONTROL VALVE

X6456 GROUND — X6130, X6232



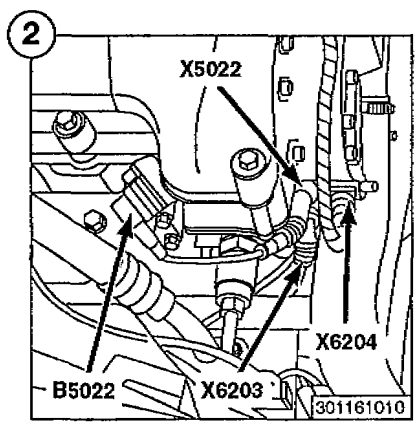


B5023 VARIABLE CAM-SHAFT CONTROL SENSOR 2 — X5023, X6232, X6236

B6232 ENGINE COOLANT TEMPERATURE SENSOR

B6236 ENGINE COOLANT TEMPERATURE SENSOR

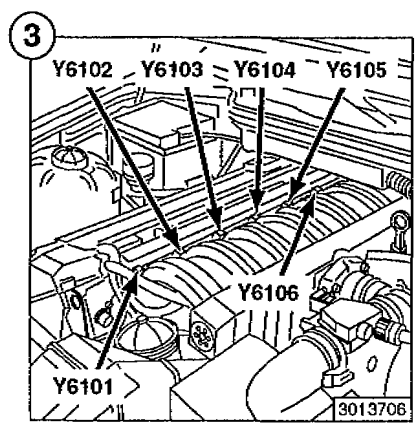
M3



B5022 VARIABLE CAM-SHAFT CONTROL SENSOR 1

X5022
X6203
X6204

M3



Y6101 CYL. 1 FUEL INJECTION VALVE

Y6102 CYL. 2 FUEL INJECTION VALVE

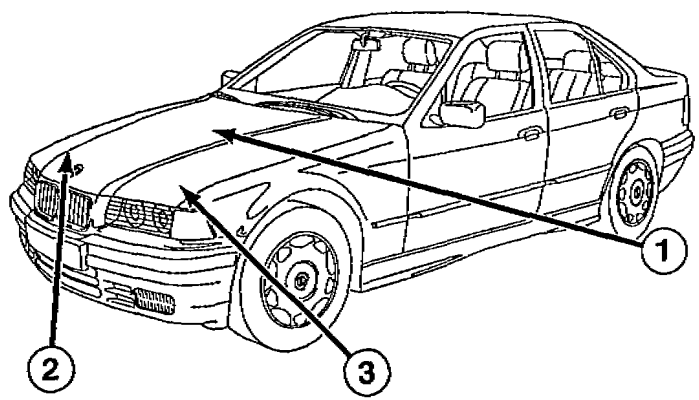
Y6103 CYL. 3 FUEL INJECTION VALVE

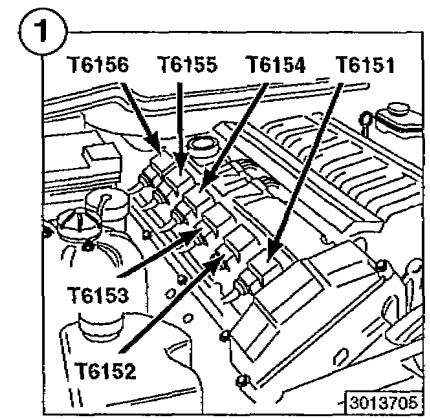
Y6104 CYL. 4 FUEL INJECTION VALVE

Y6105 CYL. 5 FUEL INJECTION VALVE

Y6106 CYL. 6 FUEL INJECTION VALVE

COMPONENT LOCATION VIEWS





T6151
CYL. 1 IGNITION COIL

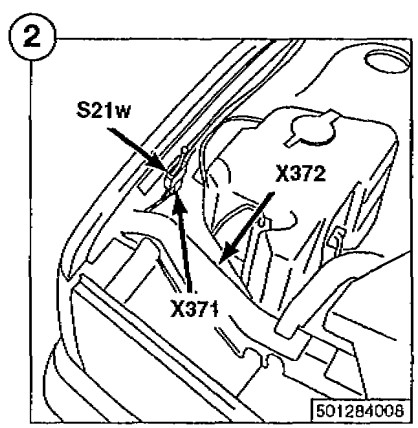
T6154
CYL. 4 IGNITION COIL

T6152
CYL. 2 IGNITION COIL

T6155
CYL. 5 IGNITION COIL

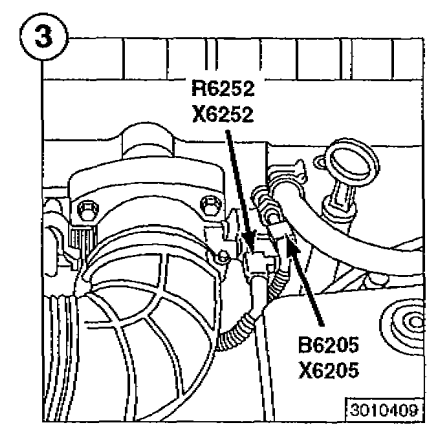
T6153
CYL. 3 IGNITION COIL

T6156
CYL. 6 IGNITION COIL



S21w
ENGINE HOOD SWITCH

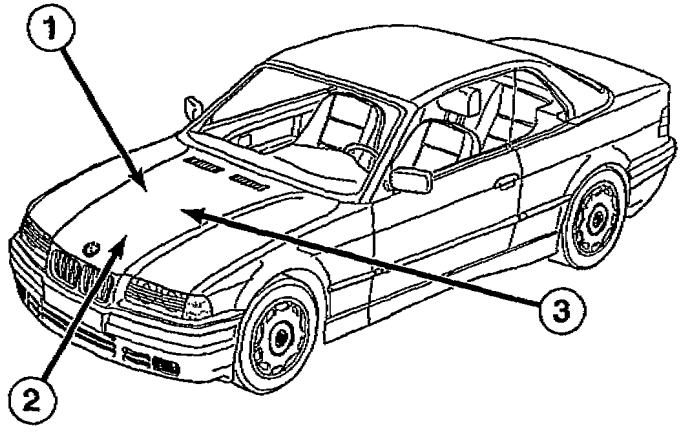
X371
X372

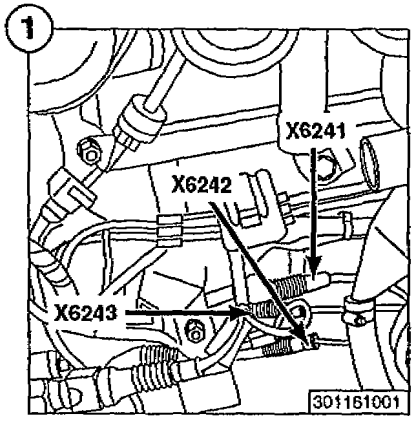


B6205
INTAKE AIR TEMPERATURE SENSOR

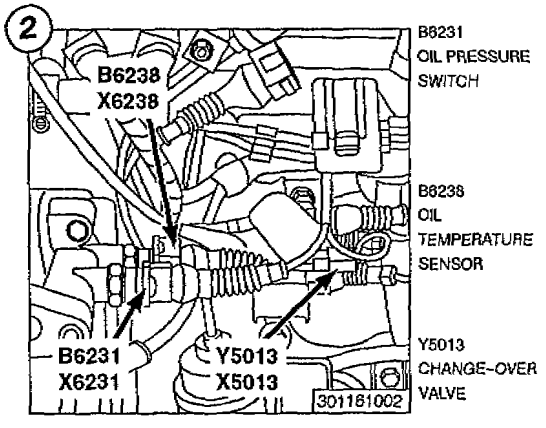
R6252
THROTTLE POSITION SENSOR

X6205
X6252





M3

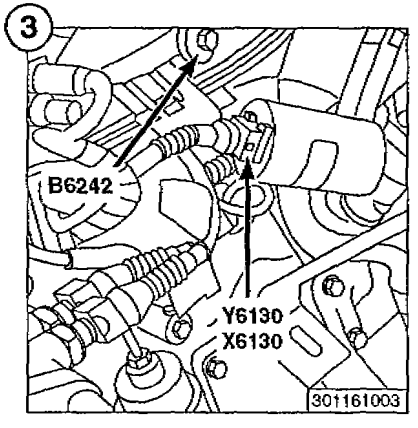


B6231 OIL PRESSURE SWITCH — X5013, X6231, X6238

B6238 OIL TEMPERATURE SENSOR

Y5013 CHANGE-OVER VALVE

M3

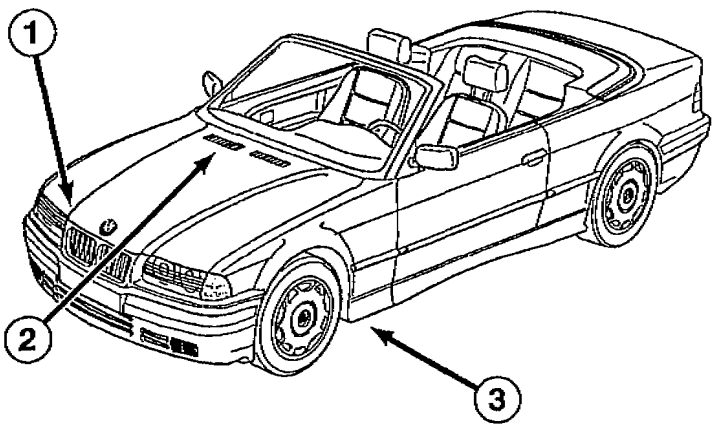


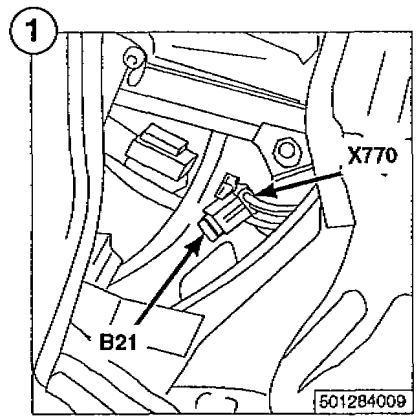
B6242 CYL 3-4 KNOCK SENSOR

Y6130 IDLE SPEED CONTROL VALVE — X6130

M3

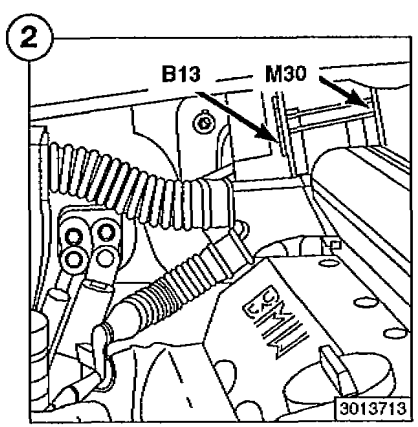
COMPONENT LOCATION VIEWS





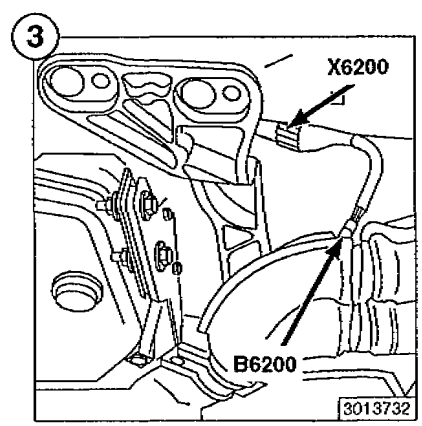
B21
ON-BOARD
COMPUTER
TEMPERATURE
SENSOR

X770



B13
OUTSIDE
TEMPERATURE
SENSOR

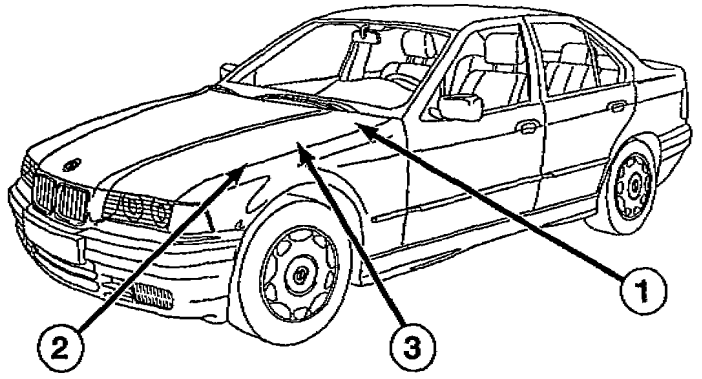
M30
BLOWER MOTOR

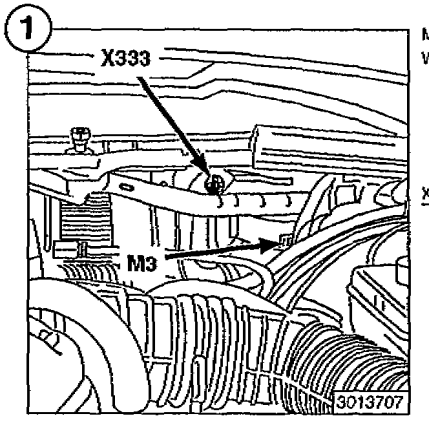


B6200
HEATED
OXYGEN SENSOR

X6200

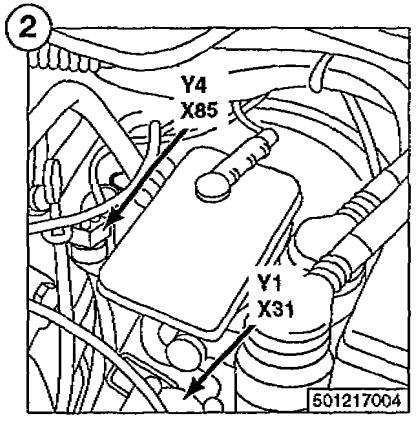
COMPONENT LOCATION VIEWS





M3
WIPER MOTOR

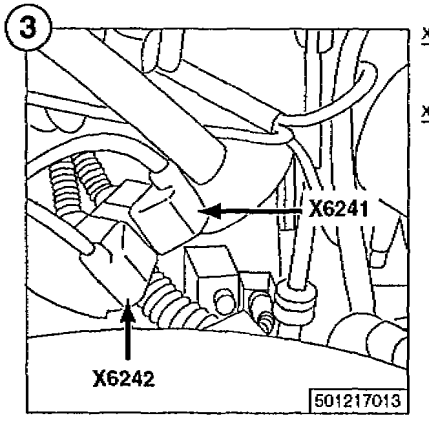
X333



Y1
ABS
HYDRAULIC UNIT

Y4
WATER VALVE
ASSEMBLY

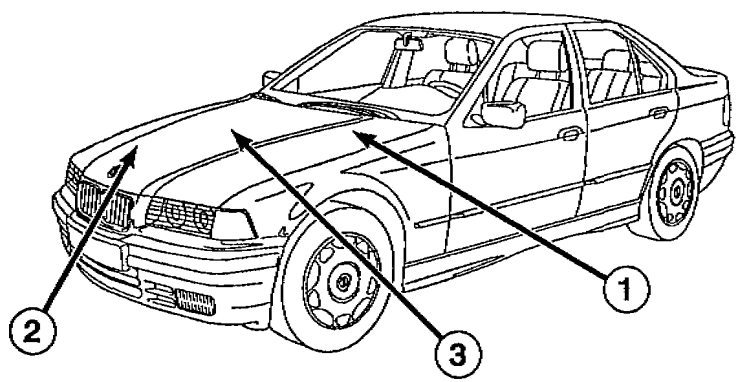
X31
X85

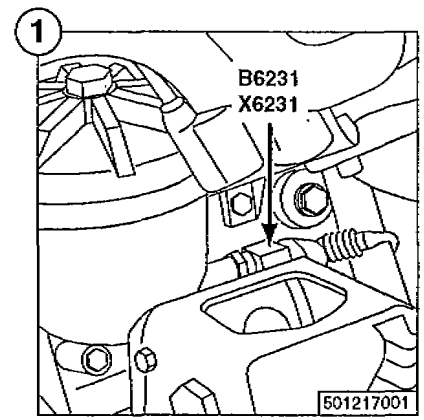


X6241

X6242

COMPONENT LOCATION VIEWS

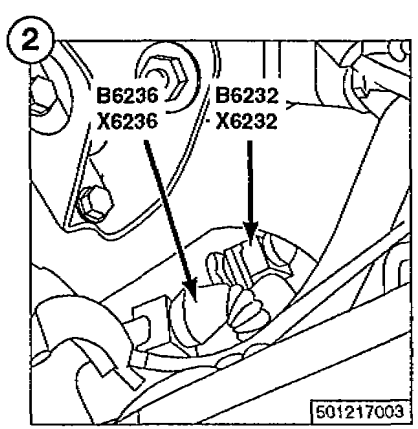




B6231
OIL PRESSURE SWITCH

X6231

318I

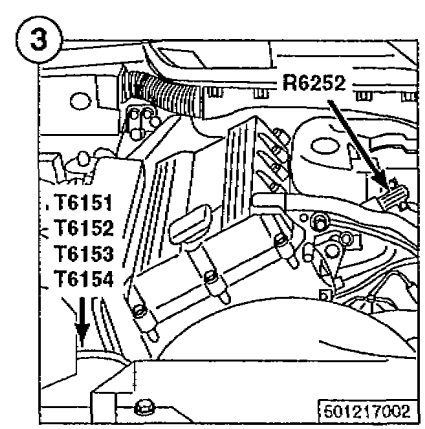


B6232
ENGINE COOLANT TEMPERATURE SENSOR

B6236
ENGINE COOLANT TEMPERATURE SENSOR

X6232
X6236

318I



R6252
THROTTLE POSITION SENSOR

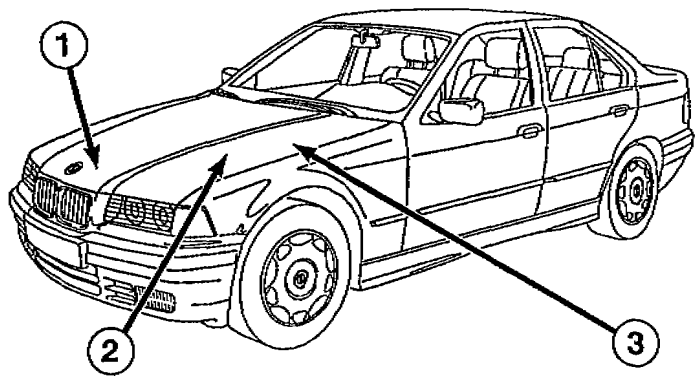
T6151
CYL. 1 IGNITION COIL

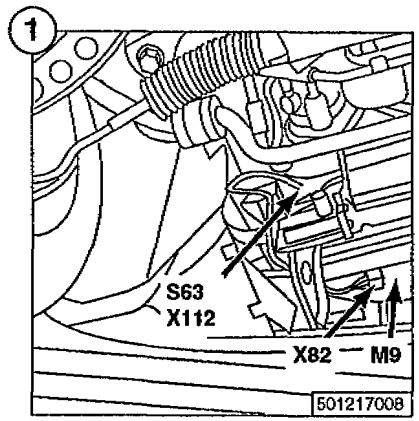
T6152
CYL. 2 IGNITION COIL

T6153
CYL. 3 IGNITION COIL

T6154
CYL. 4 IGNITION COIL

318I



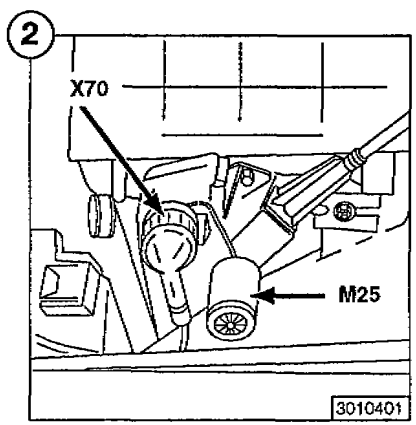


M9
AUXILIARY
FAN MOTOR

S63
ENGINE COOLANT
LEVEL SWITCH

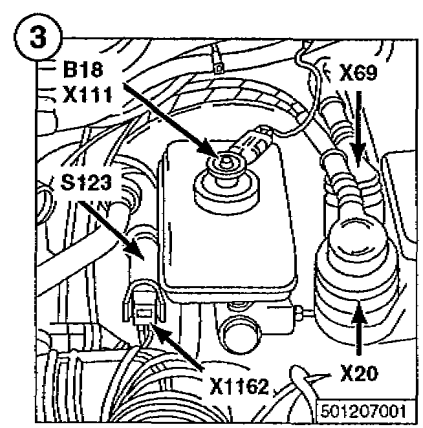
X82
X112

318i



M25
CRUISE CONTROL
ACTUATOR
(TEMPOMAT)

X70

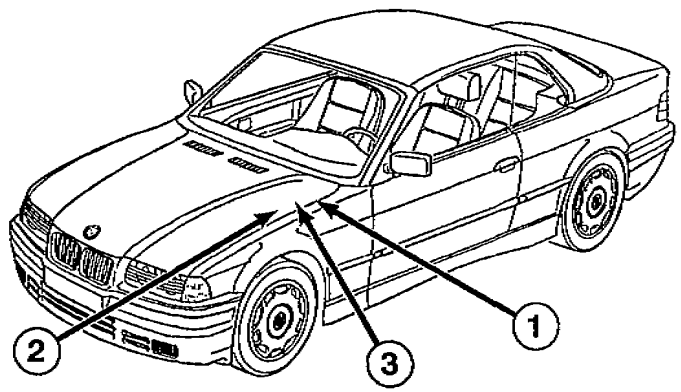


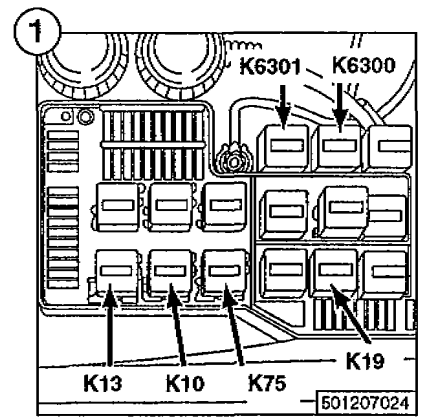
B18
BRAKE FLUID
LEVEL SWITCH

S123
ABS PEDAL
TRAVEL SENSOR

X20
X69
X111
X1162

COMPONENT LOCATION VIEWS





K10 ABS RELAY

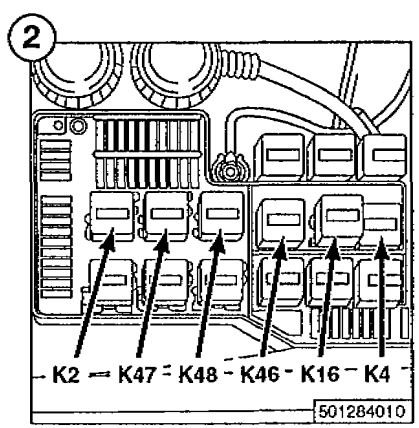
K75 ABS PUMP MOTOR RELAY

K13 REAR DEFOGGER RELAY

K6300 ENGINE CONTROL MODULE RELAY

K19 COMPRESSOR CONTROL RELAY

K6301 CYL. 1-6 FUEL PUMP RELAY



K2 HORN RELAY

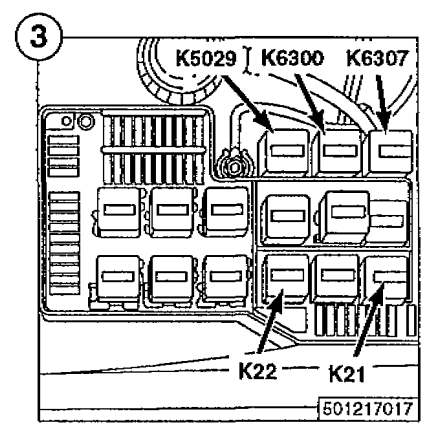
K46 HIGH BEAM LIGHT RELAY

K4 BLOWER RELAY

K47 FRONT FOG LIGHT RELAY

K16 HAZARD FLASHER RELAY

K48 LOW BEAM LIGHT RELAY



K21 NORMAL SPEED RELAY

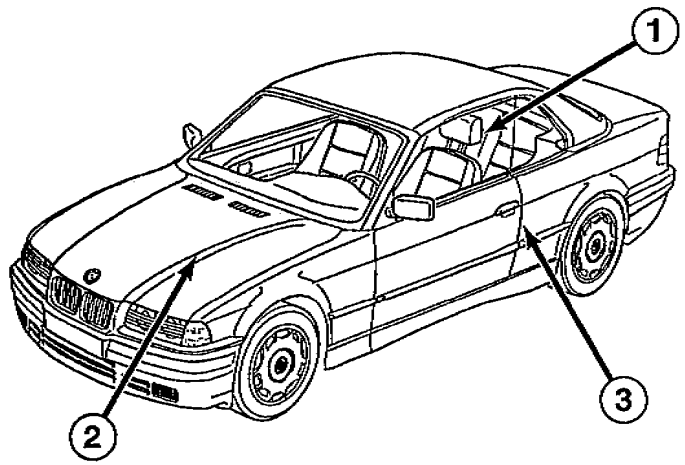
K6300 ENGINE CONTROL MODULE RELAY

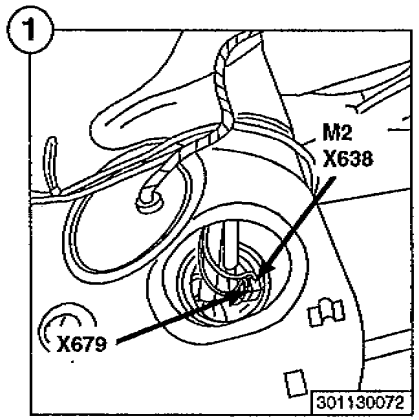
K22 HIGH SPEED RELAY

K6307 FUEL PUMP/START IDENTIFICATION RELAY

K5029 DOUBLE RELAY

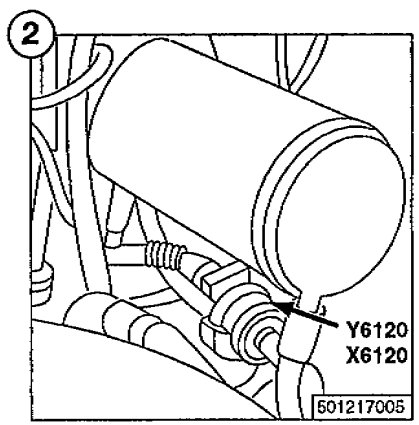
COMPONENT LOCATION VIEWS





M2
FUEL PUMP

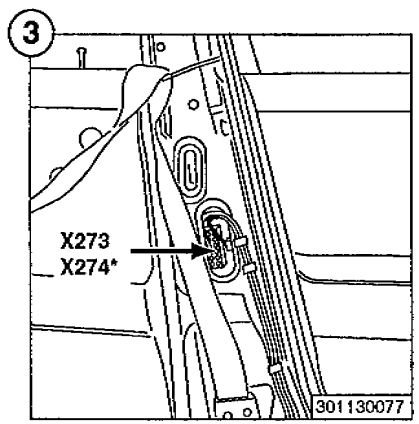
X636
X679



Y6120
EVAPORATIVE
EMISSION VALVE

X6120

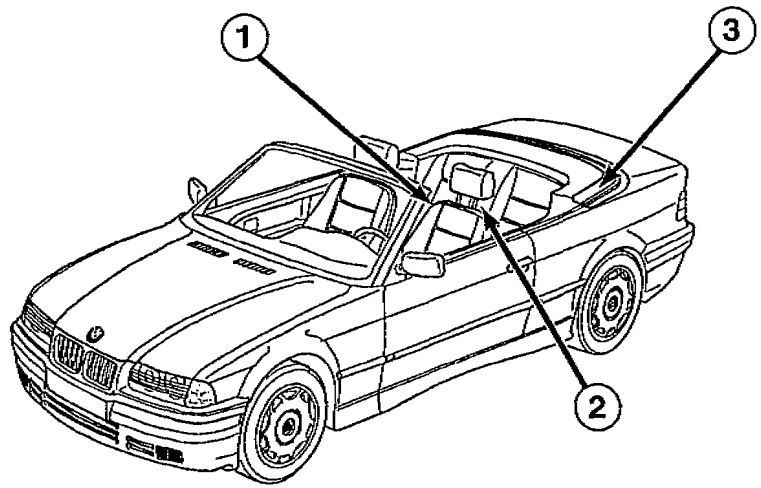
318I

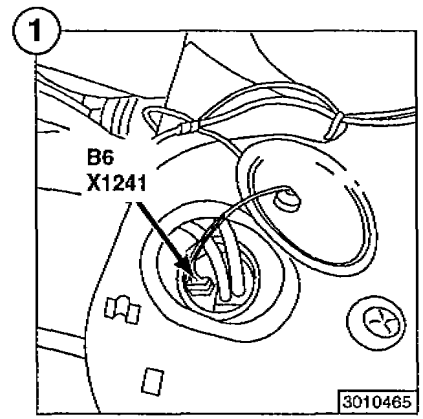


X273
X274 *

* RH similar

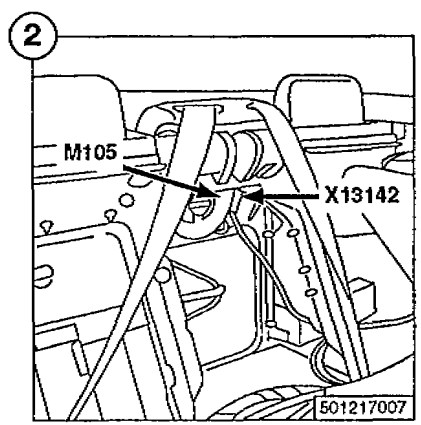
COMPONENT LOCATION VIEWS





B6
FUEL LEVEL
SENSOR

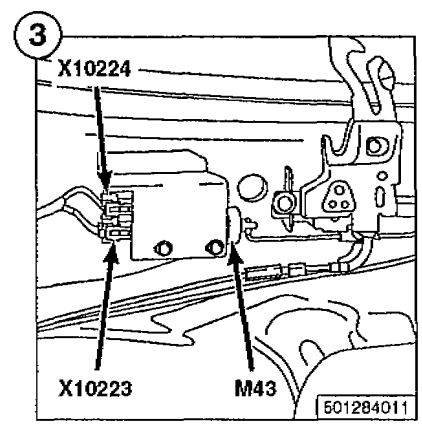
X1241



M105
REAR WINDOW
BLOWER

X13142

convertible

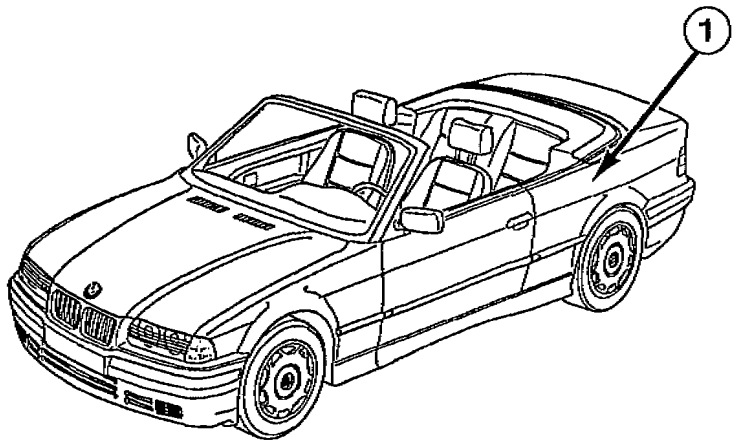


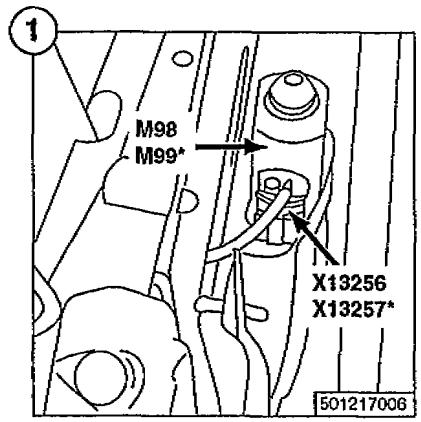
M43
CONVERTIBLE TOP
STORAGE LID
LOCK MOTOR

X10223
X10224

convertible

COMPONENT LOCATION VIEWS





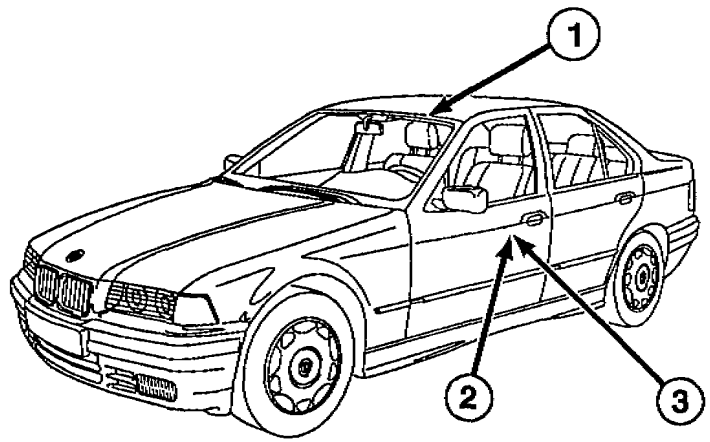
M98 X13257 *
LEFT REAR
WINDOW MOTOR

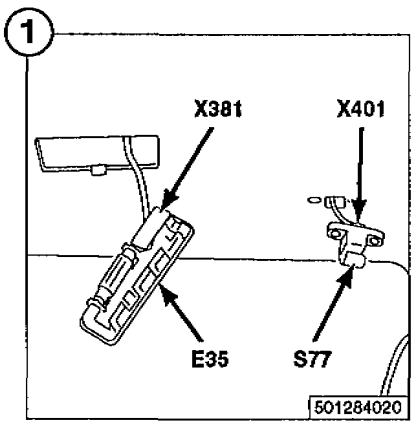
M99 *
RIGHT REAR
WINDOW MOTOR

X13256

* RH similar

COMPONENT LOCATION VIEWS

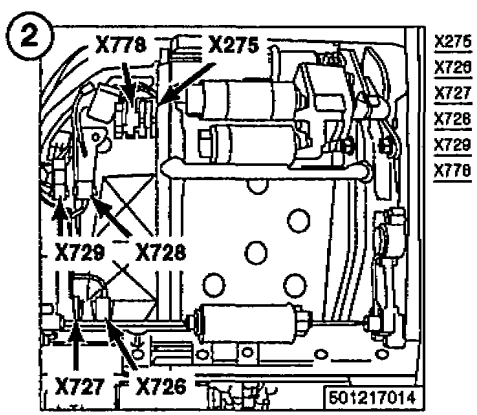




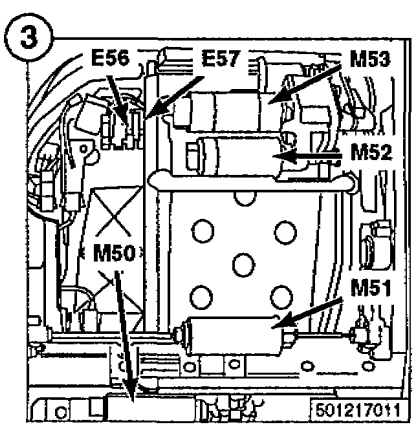
E35
DRIVER'S
MAKEUP
MIRROR LIGHT

S77
DRIVER'S
MAKEUP
MIRROR SWITCH

X381
X401



X275
X726
X727
X726
X729
X778



E56
DRIVER'S
SEATBACK
HEATER

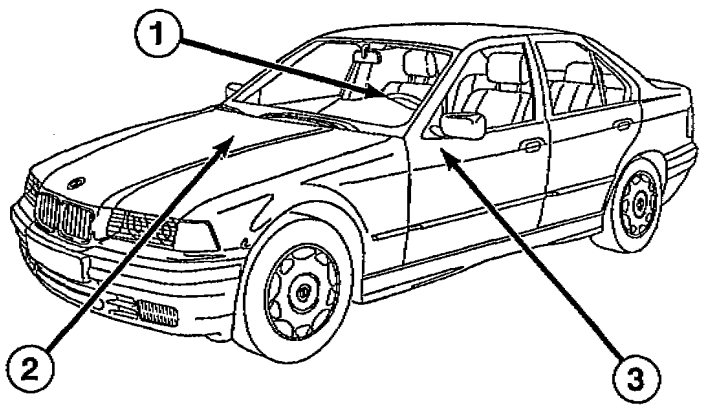
M51
DRIVER'S SEAT
MOVEMENT MOTOR

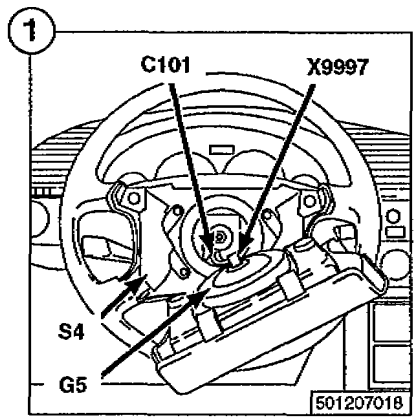
E57
DRIVER'S
SEAT HEATER

M52
DRIVER'S SEAT
HEIGHT MOTOR

M50
DRIVER'S
SEAT CUSHION
TILT MOTOR

M53
DRIVER'S
SEATBACK
RECLINER MOTOR

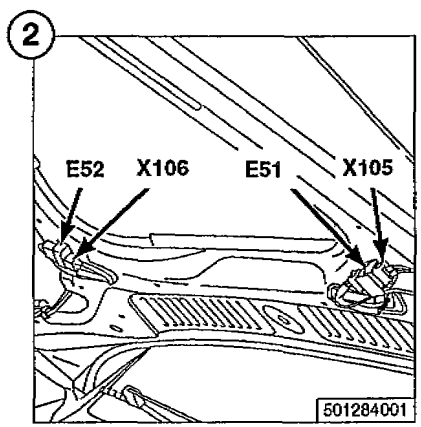




C101 X9997
CONTACT RING

G5
DRIVER'S
AIR BAG GAS
GENERATOR

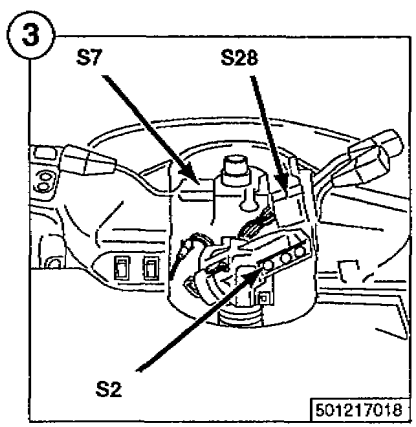
S4
HORN SWITCH



E51
LEFT WASHER
JET HEATER

E52
RIGHT WASHER
JET HEATER

X105
X106

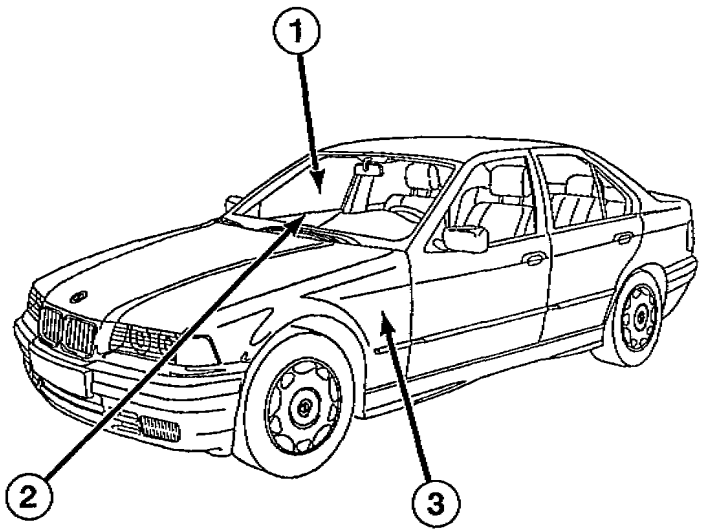


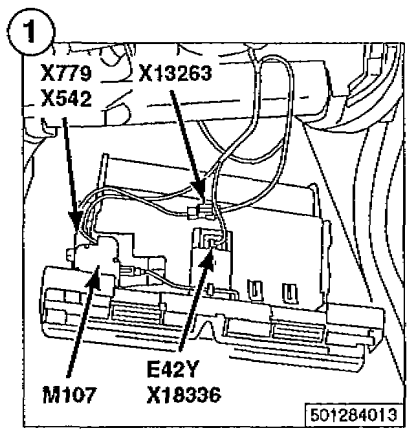
S2
IGNITION
SWITCH

S7
COMBINATION
SWITCH

S28
CRUISE CONTROL
SWITCH

COMPONENT LOCATION VIEWS

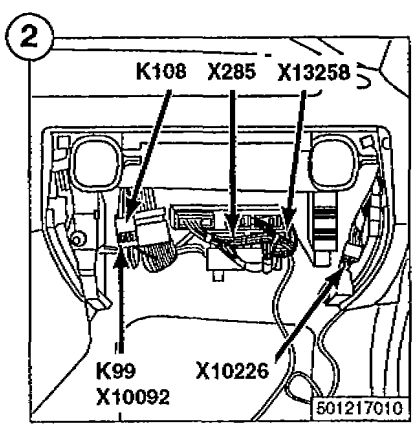




E42y
GLOVE BOX
LIGHT/SWITCH

M107
GLOVE BOX LOCK
MOTOR

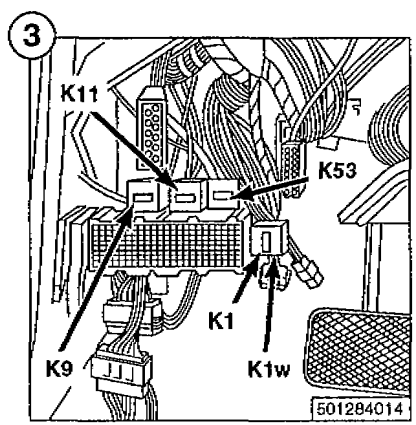
X542
X779
X13263
X18336



K99
REAR WINDOW
BLOWER RELAY

K108
HORN RELAY
(ALPINE)

X285
X10092
X10226
X13258



K1
STARTER RELAY

K1w*
STARTER
IMMOBILIZATION
RELAY

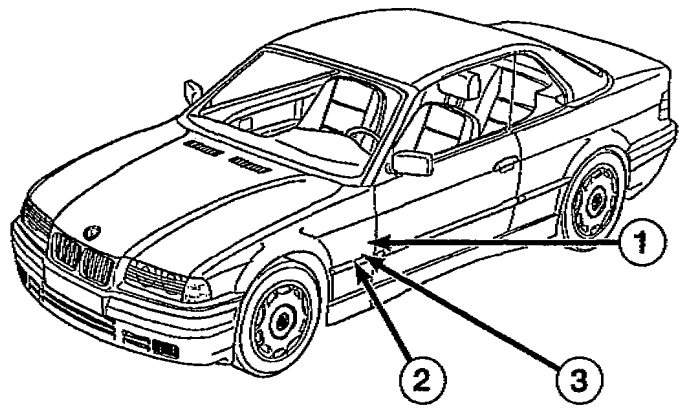
K9
UNLOADER
RELAY,
TERMINAL 15

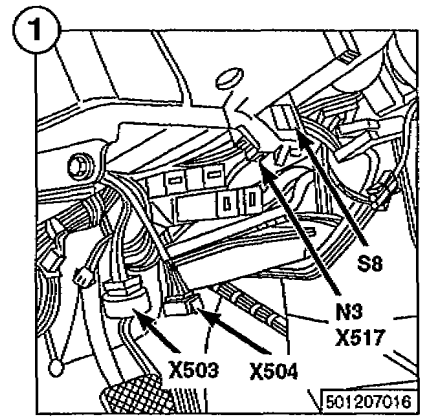
K53
WIPER MOTOR
RELAY

K11
WIPER RELAY

* LATE PRODUCTION

COMPONENT LOCATION VIEWS

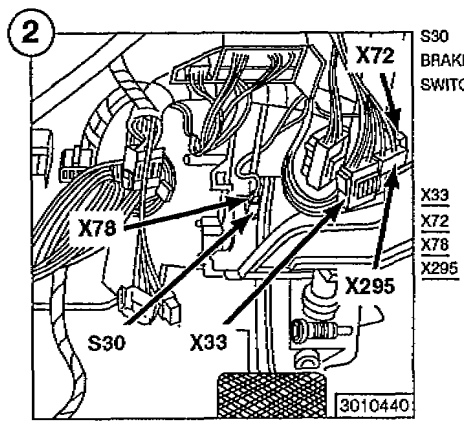




N3
DIMMER

S8
LIGHT SWITCH

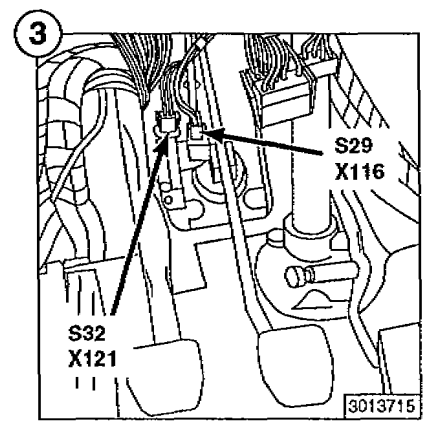
X503
X504
X517



S30
BRAKE LIGHT
SWITCH

X33
X72
X78
X295

AUTOMATIC



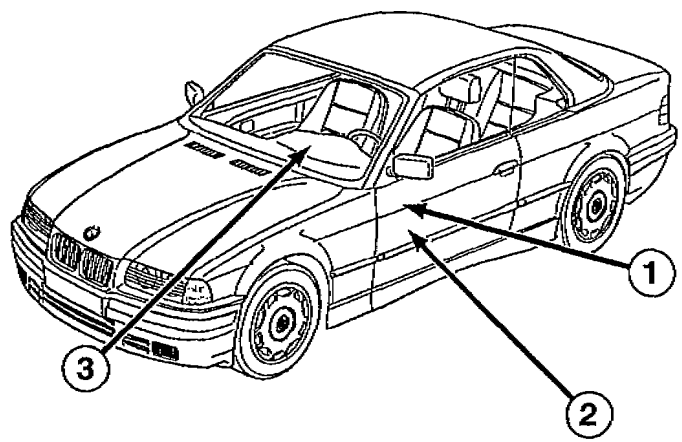
S29
BRAKE LIGHT
SWITCH

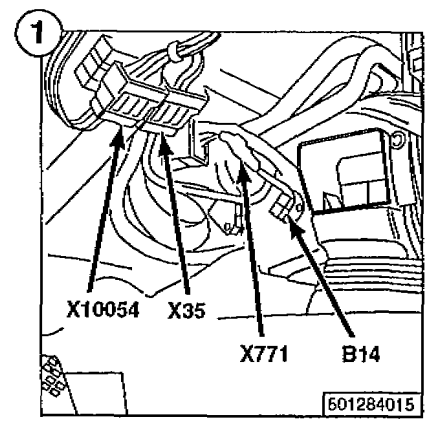
S32
CLUTCH SWITCH

X116
X121

MANUAL

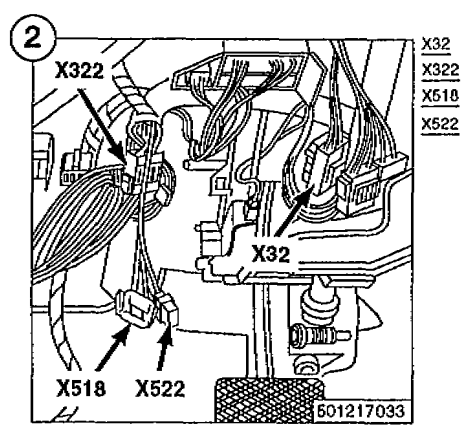
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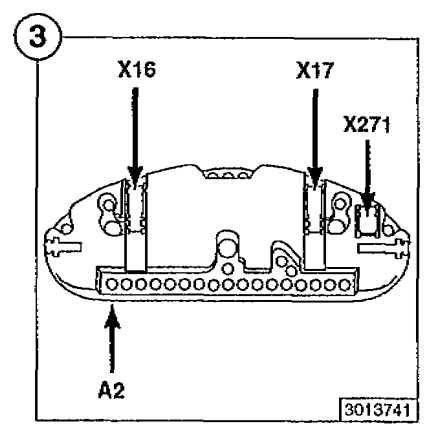


B14
EVAPORATOR
TEMPERATURE
SENSOR

X35
X771
X10054



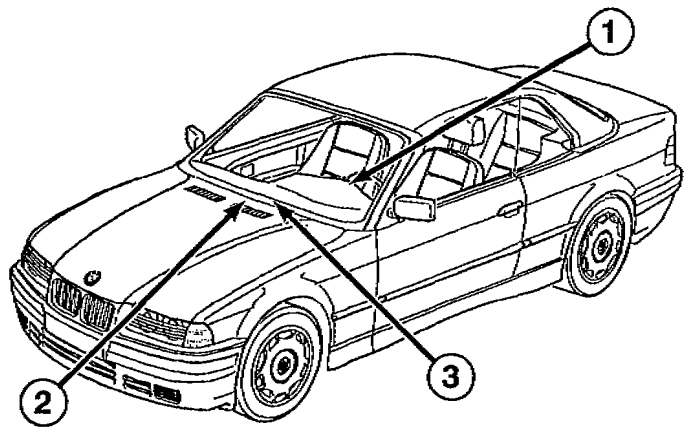
X32
X322
X518
X522

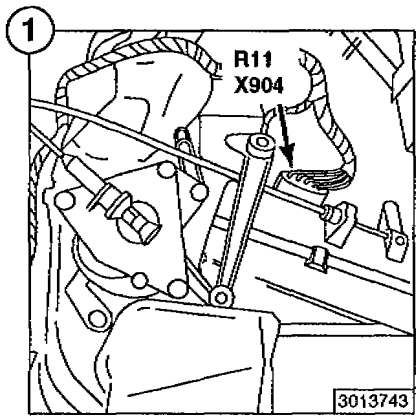


A2
INSTRUMENT
CLUSTER

X16
X17
X271

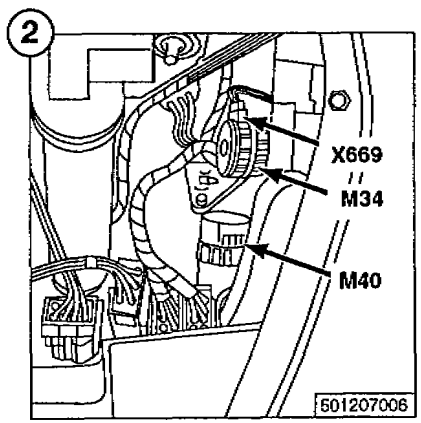
COMPONENT LOCATION VIEWS





R11
BLOWER
RESISTORS

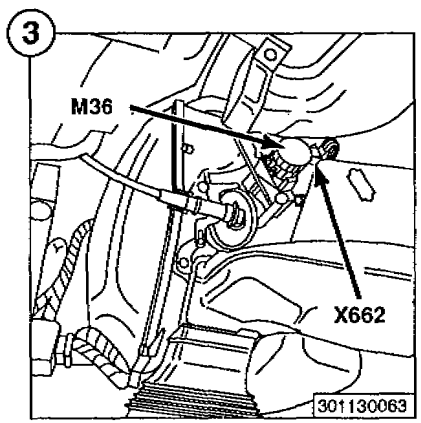
X904



M34
DASH VENT
MIXING FLAP
MOTOR

M40
RECIRCULATION
FLAP MOTOR

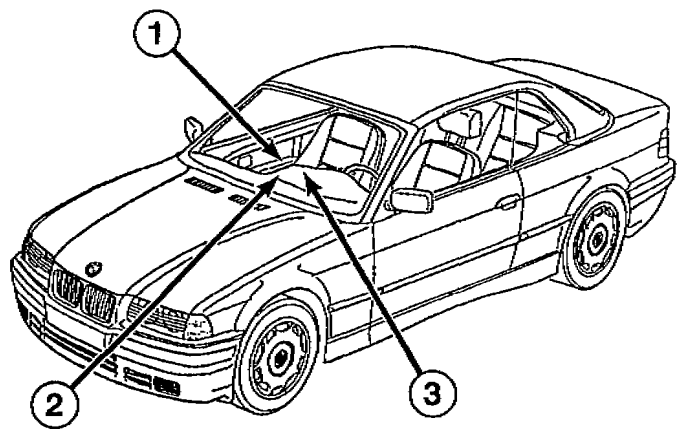
X669

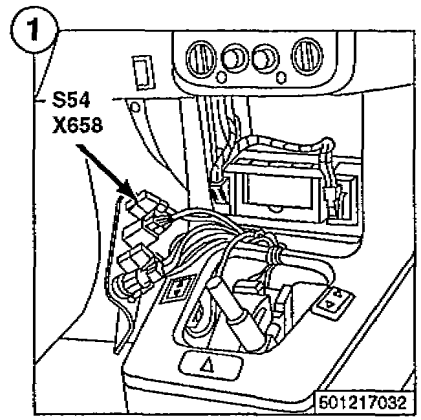


M36
FRESH AIR
FLAP MOTOR

X662

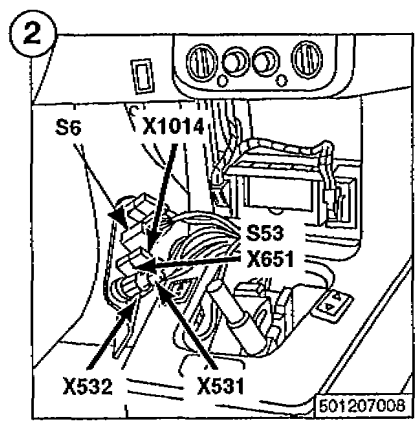
COMPONENT LOCATION VIEWS





S54
PASSENGER'S SEAT, SEAT HEATER SWITCH

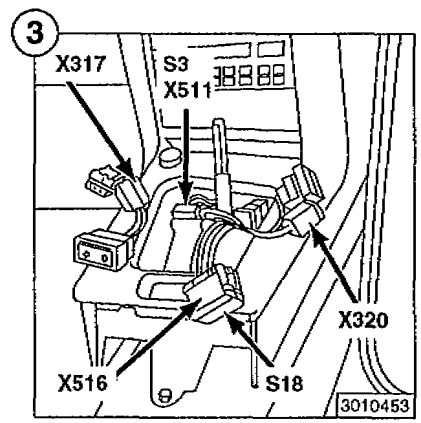
X658



S6
ASC SWITCH

S53
DRIVER'S SEAT, SEAT HEATER SWITCH

X531
X532
X651
X1014

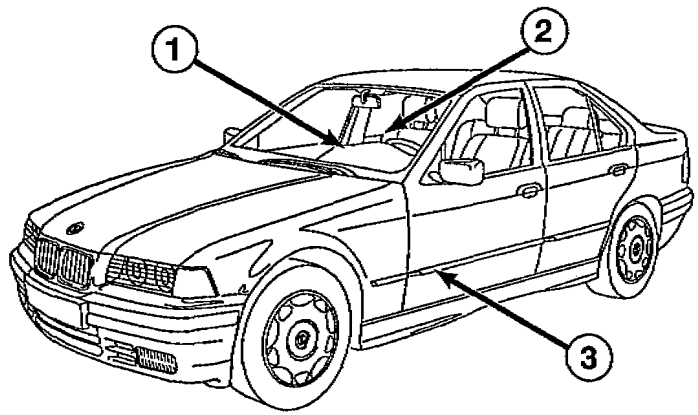


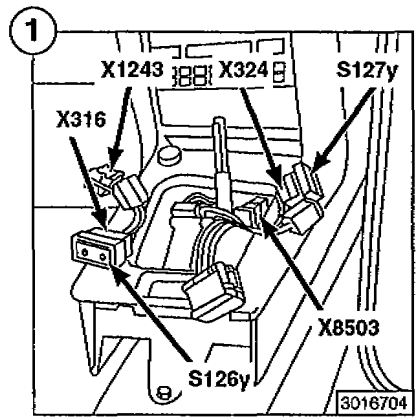
S3
AUTOMATIC TRANSMISSION RANGE SWITCH

S18
HAZARD SWITCH

X317
X320
X511
X516

COMPONENT LOCATION VIEWS

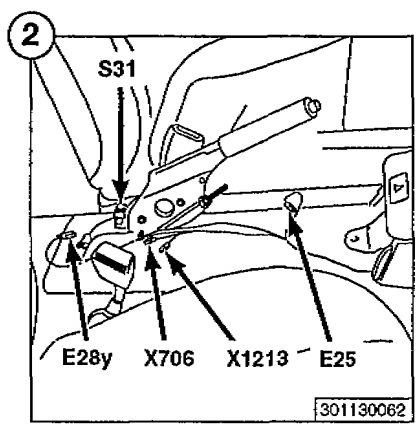




S126y
DRIVER'S
POWER
WINDOW SWITCH

S127y
PASSENGER'S
POWER WINDOW
SWITCH

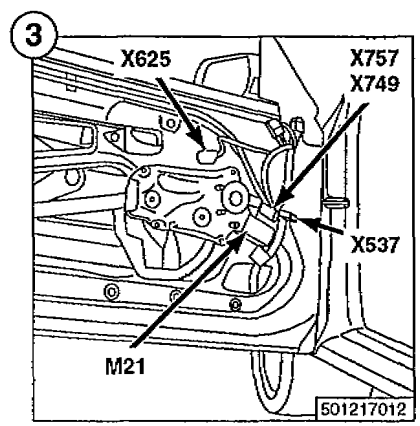
X316
X324
X1243
X8503



E25 X706
FRONT X1213
ASHTRAY LIGHT

E28y
REAR
ASHTRAY LIGHT

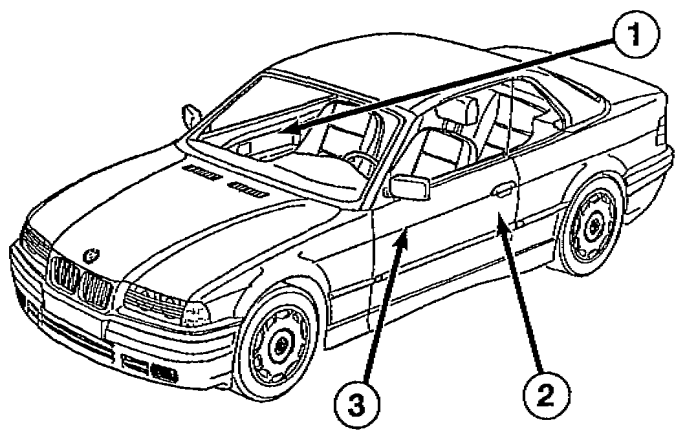
S31
PARK BRAKE
SWITCH

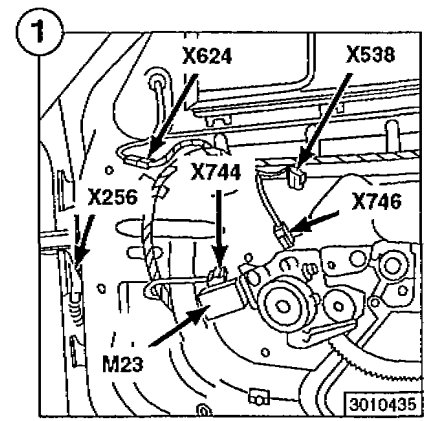


M21
DRIVER'S
WINDOW MOTOR

X537
X625
X749
X757

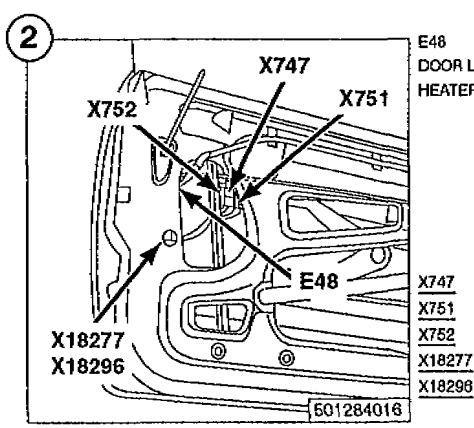
COMPONENT LOCATION VIEWS





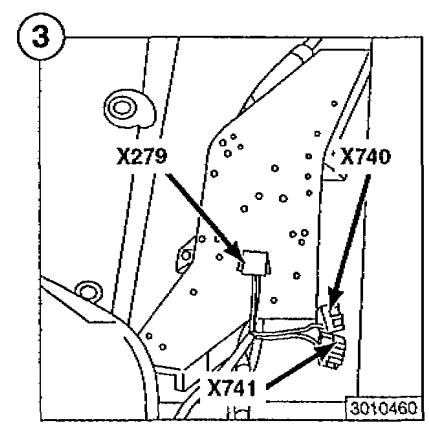
M23
PASSENGER'S
WINDOW MOTOR

X256
X538
X624
X744
X746



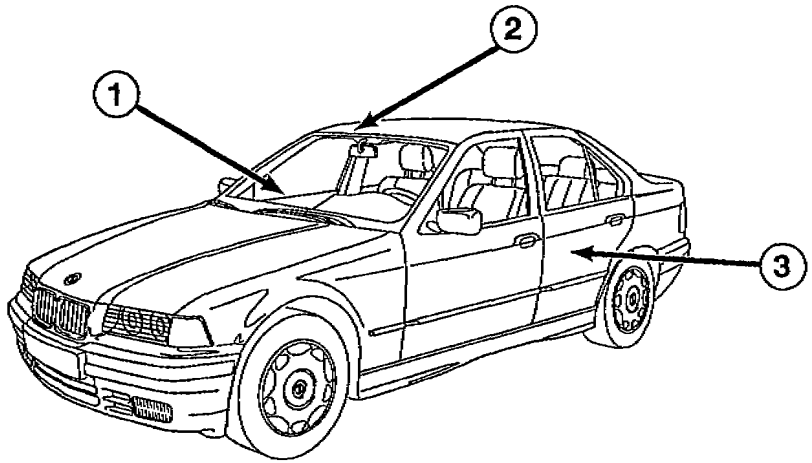
E48
DOOR LOCK
HEATER

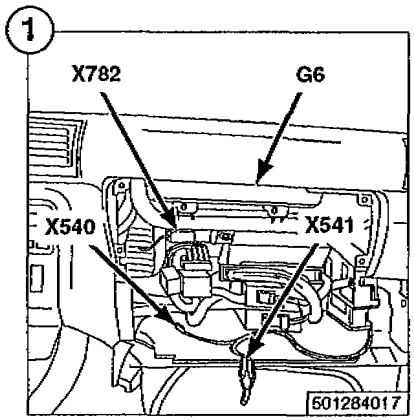
X747
X751
X752
X18277
X18296



X279
X740
X741

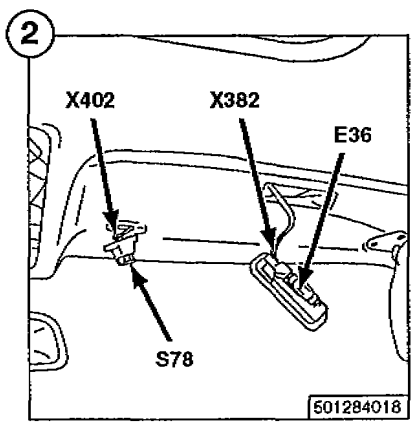
COMPONENT LOCATION VIEWS





G6
PASSENGER'S AIR BAG GAS GENERATOR 1

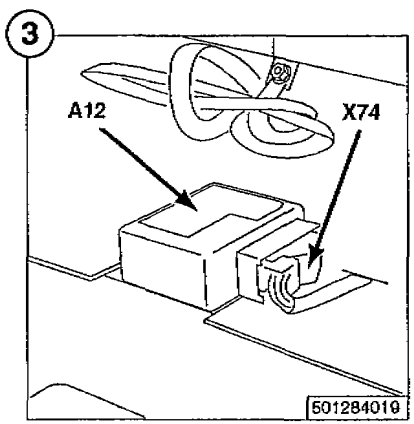
X540
X541
X782



E36
PASSENGER'S MAKEUP MIRROR LIGHT

S78
PASSENGER'S MAKEUP MIRROR SWITCH

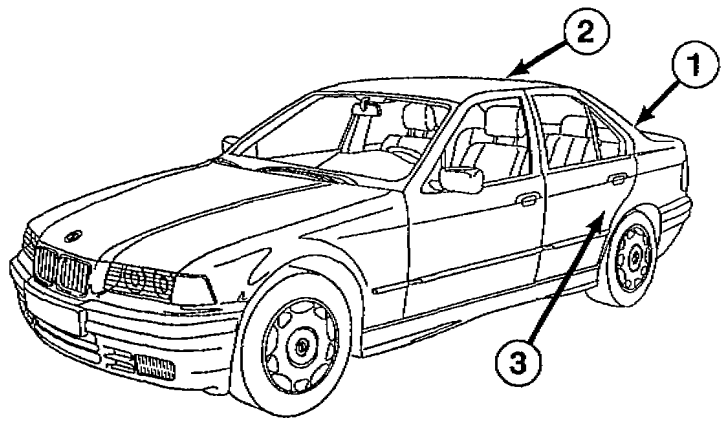
X382
X402

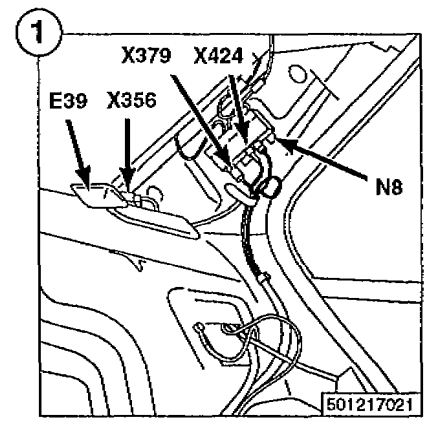


A12
SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE

X74

COMPONENT LOCATION VIEWS

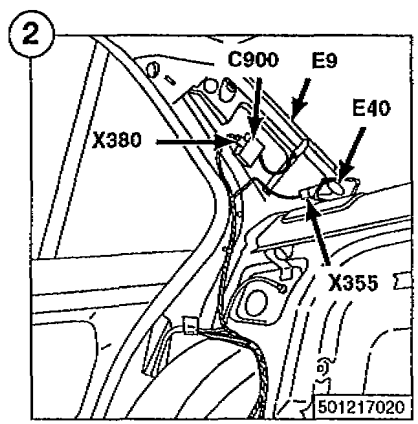




E39
LEFT REAR
INTERIOR LIGHT

N8
ANTENNA
AMPLIFIER
AM/FM

X356
X379
X424

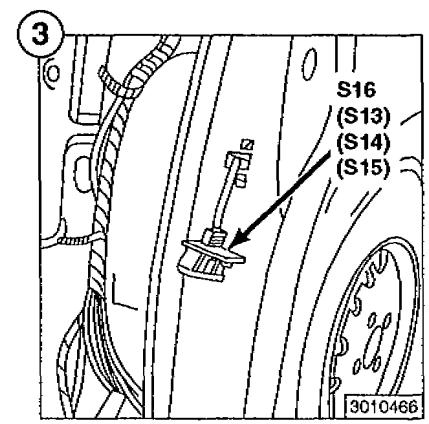


C900
SUPPRESSION
FILTER

X355
X380

E9
REAR
DEFOGGER1

E40
RIGHT REAR
INTERIOR LIGHT



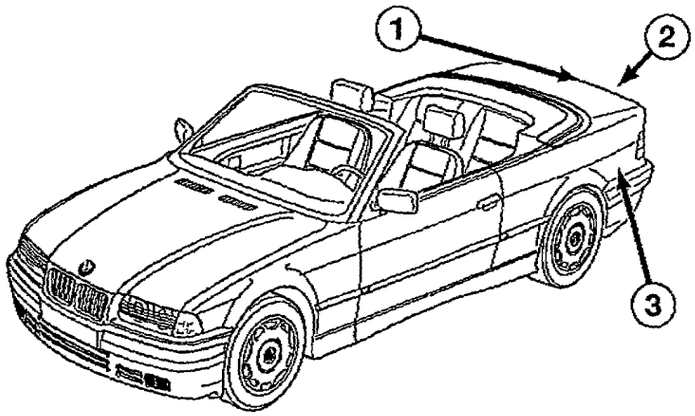
S13
PASSENGER'S
DOOR JAMB
SWITCH

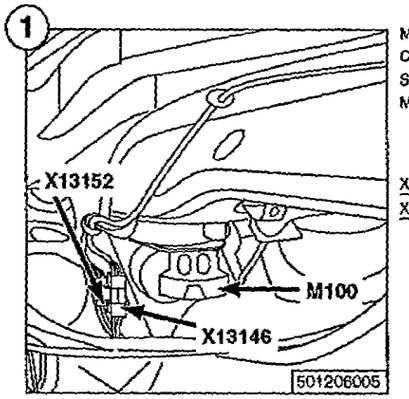
S16
LEFT REAR
DOOR JAMB
SWITCH

S14
DRIVER'S
DOOR JAMB
SWITCH

S15
REAR RIGHT
DOOR JAMB
SWITCH

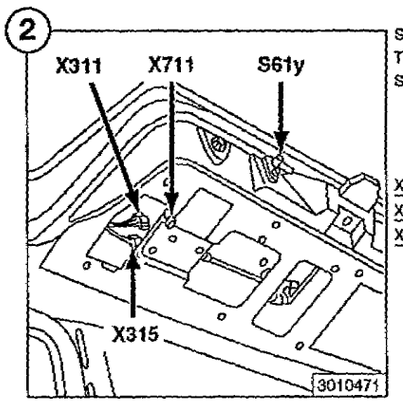
COMPONENT LOCATION VIEWS





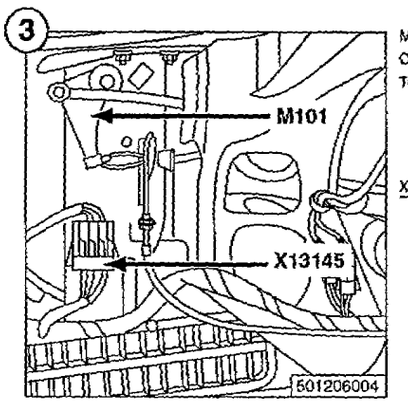
M100
CONVERTIBLE TOP
STORAGE LID
MOTOR

X13146
X13152



S61y
TRUNK LIGHT
SWITCH

X311
X315
X711



M101
CONVERTIBLE
TOP MOTOR

X13145

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X441-X456	REAR, CONVERTIBLE	8000.0-04
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X465-X481	REAR, CONVERTIBLE	8000.0-04
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X6410	M50 ENGINE	8000.0-06
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SPLICE LOCATION VIEWS

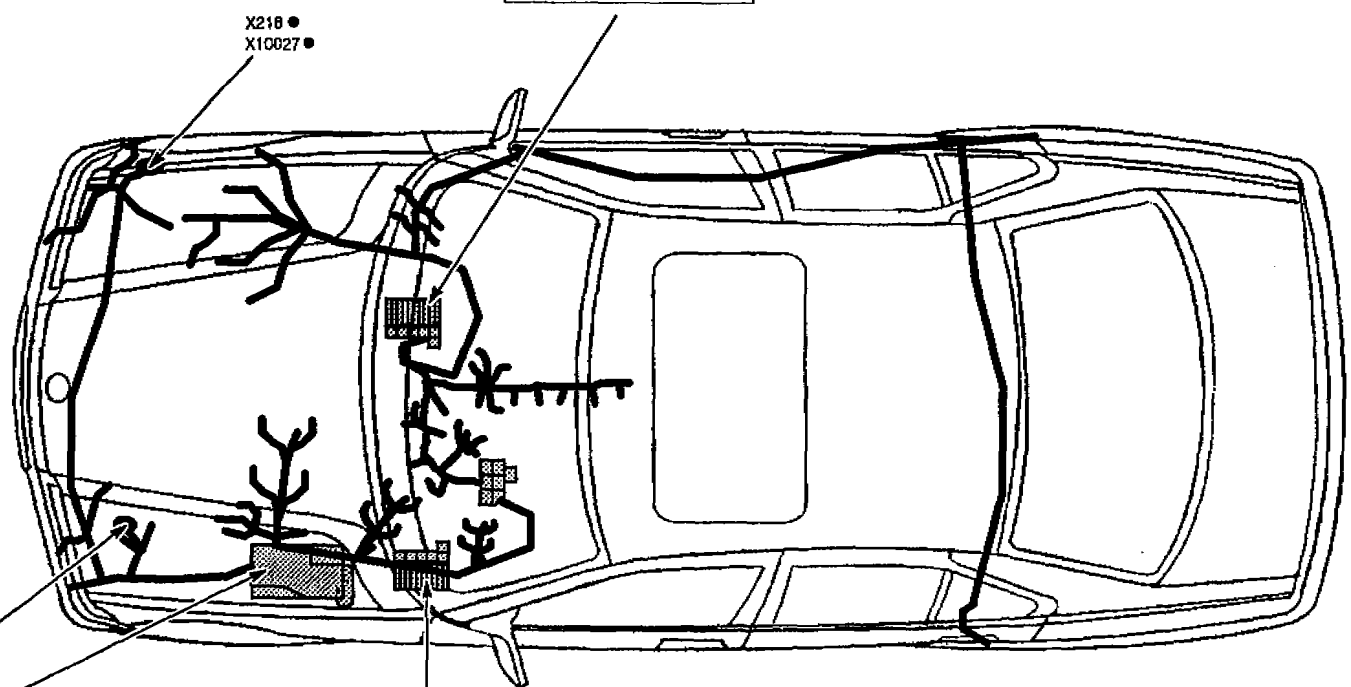
SPLICE LOCATION INDEX

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X19513-X19514	RADIO	NOT SHOWN
X69008-X69009	S50 ENGINE	8000.0-07

SPLICE LOCATION VIEWS

FRONT HARNESS

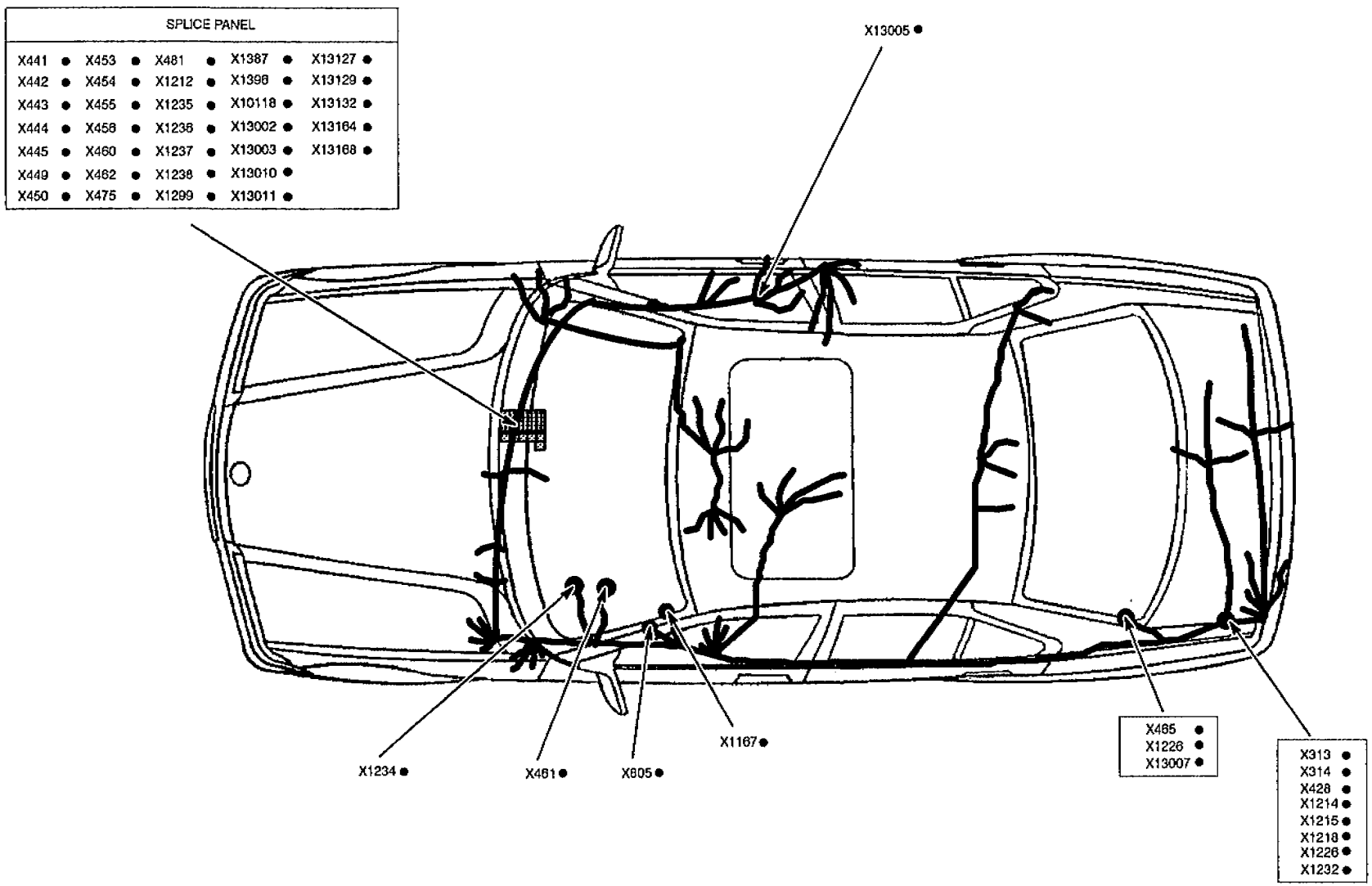


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X197 ●	X1066 ●	X1169 ●	X10024 ●	X10120 ●	X11264 ●	

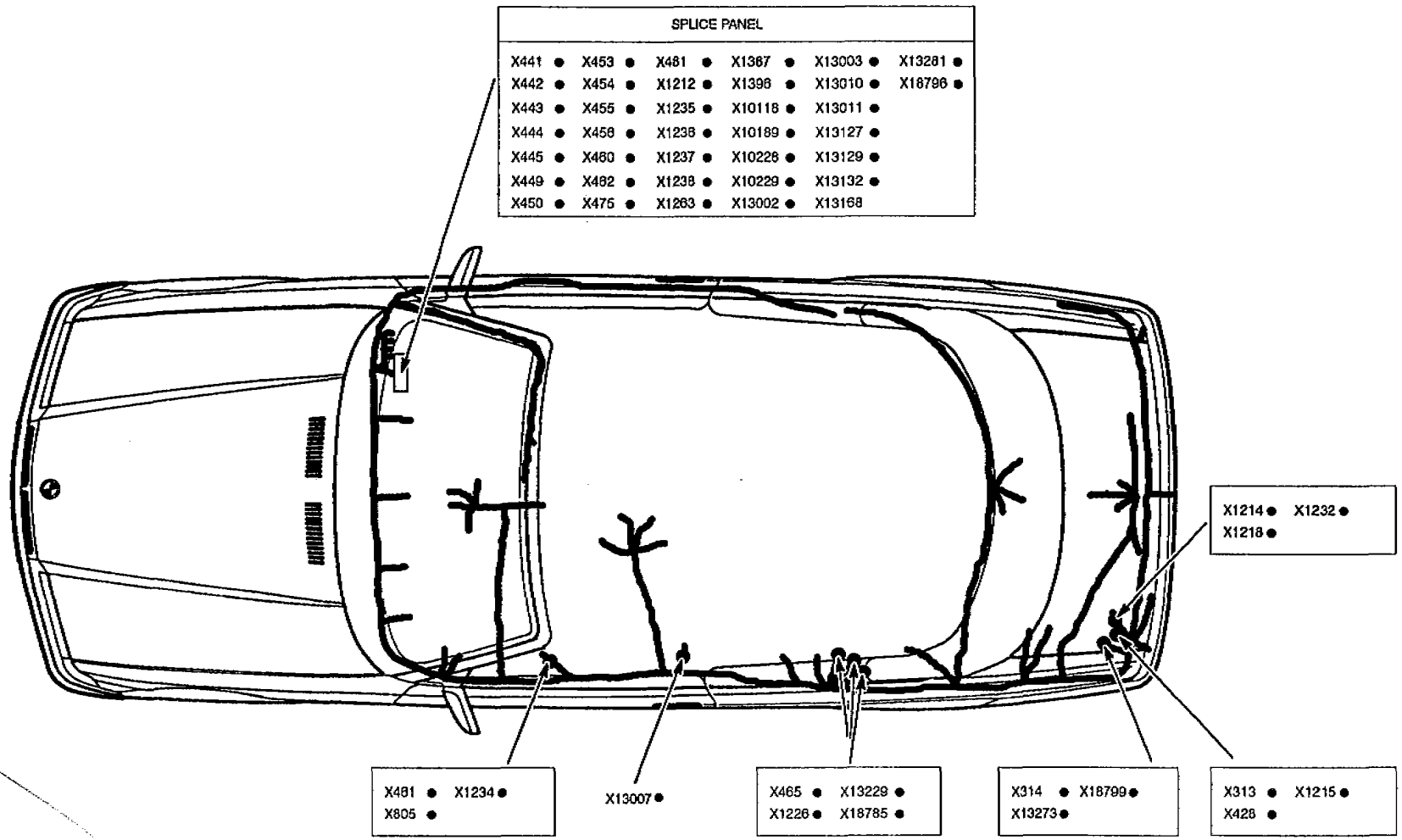
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REAR HARNESS



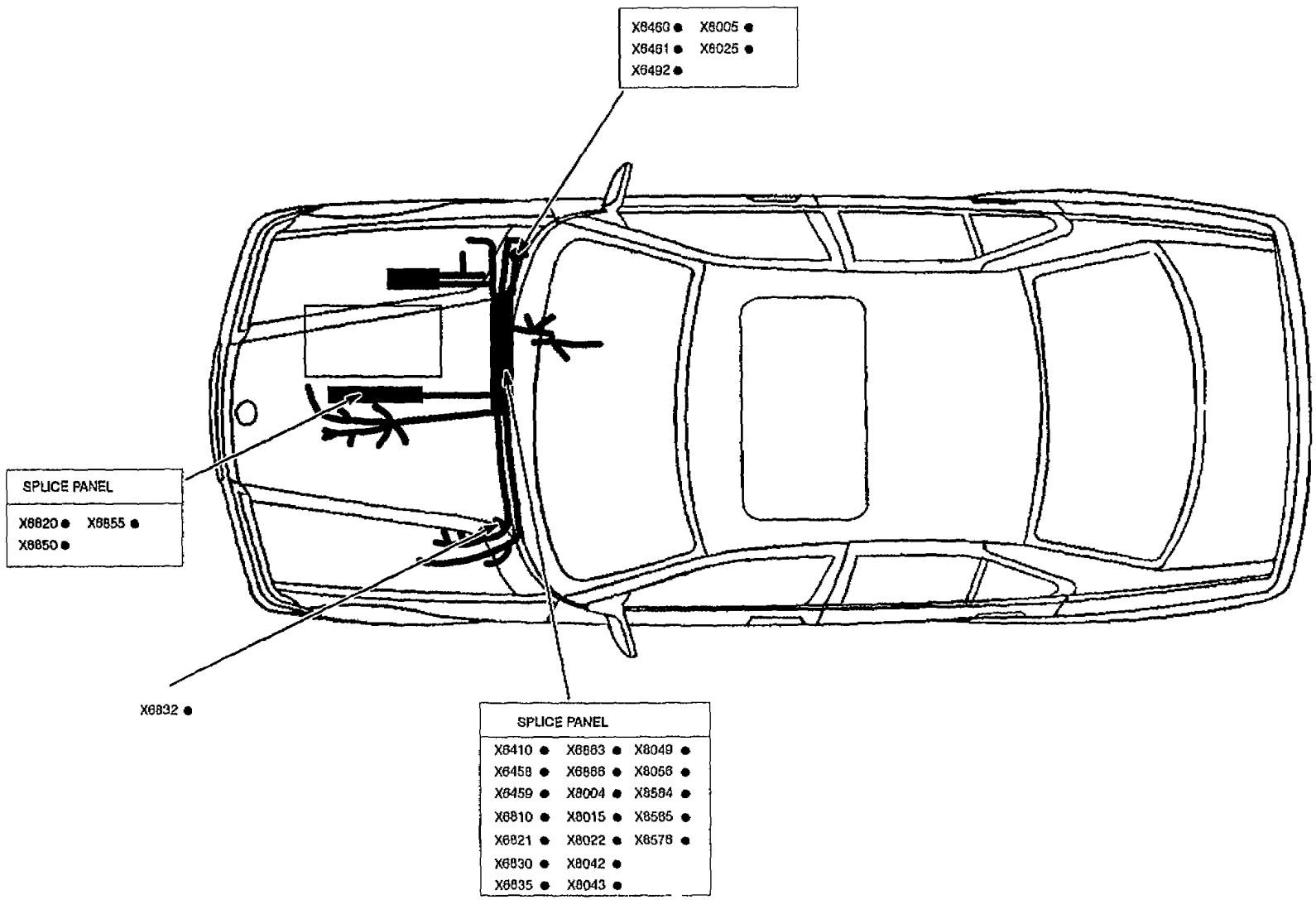
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REAR WIRING HARNESS - CONVERTIBLE



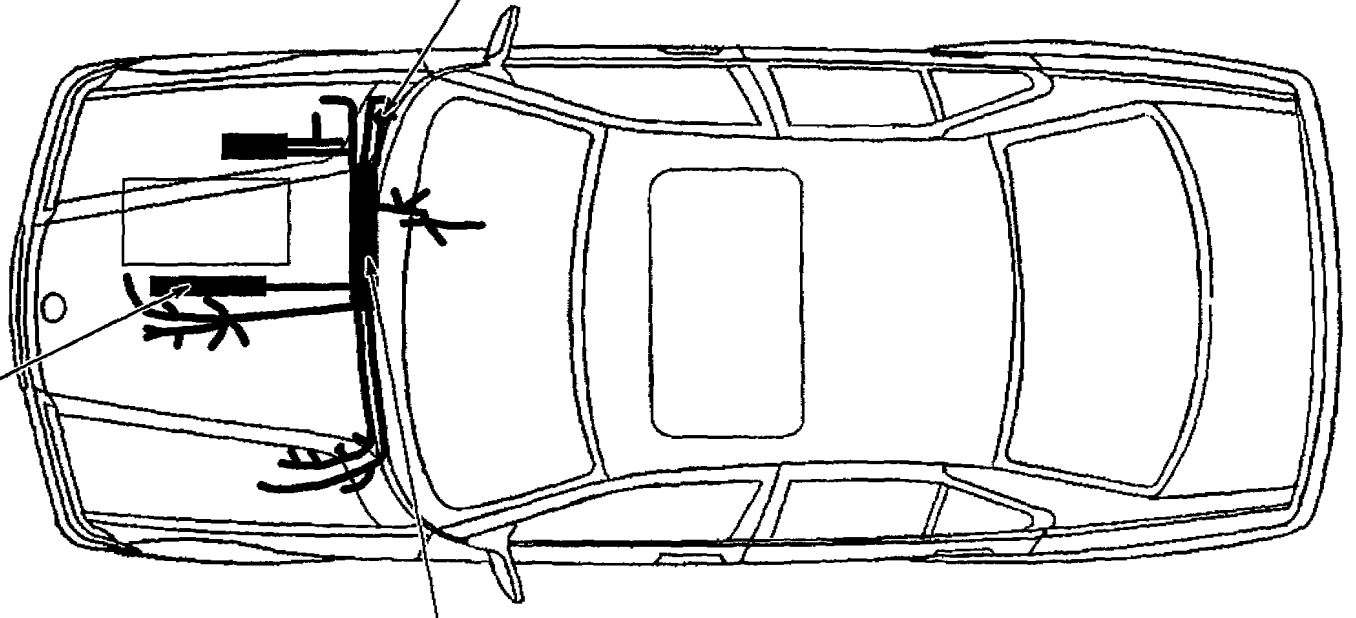
SPLICE LOCATION VIEWS

ENGINE HARNESS M42



SPLICE LOCATION VIEWS

M50 ENGINE HARNESS



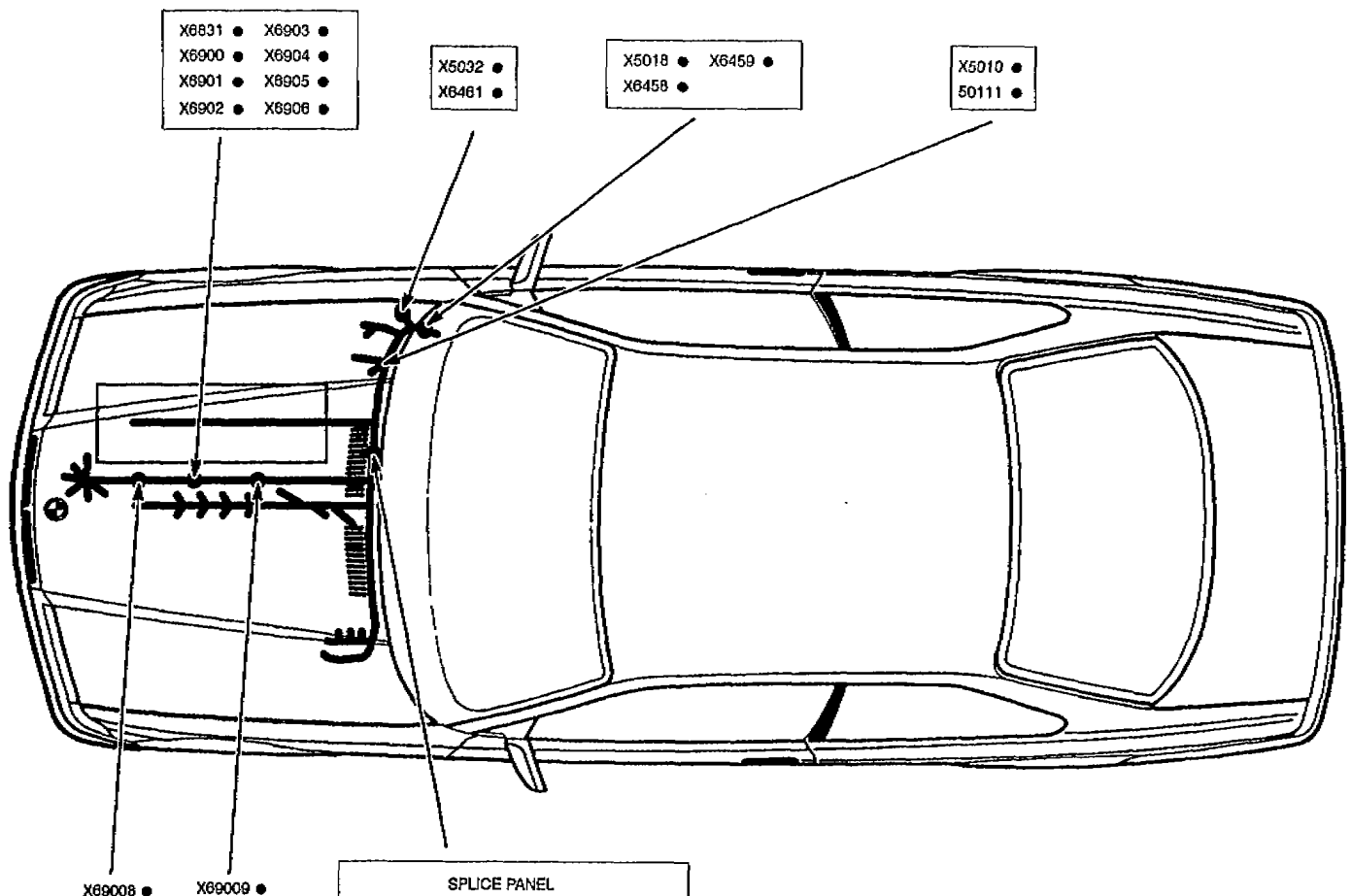
X6460	X6492
X6461	X6025
X6491	

SPLICE PANEL	
X6820	X6903
X6831	X6904
X6900	X6905
X6901	X6906
X6902	

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

SPLICE LOCATION VIEWS

ENGINE HARNESS S50



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

FIG. 1

B550001.03

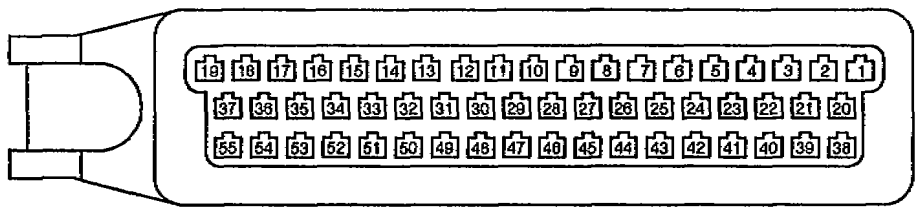


FIG. 2

B260005.00

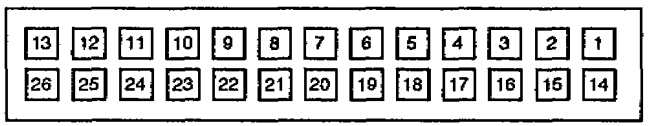


FIG. 3

B150003.00

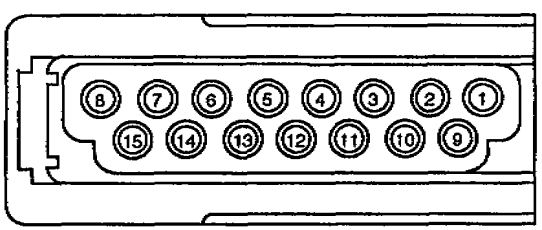
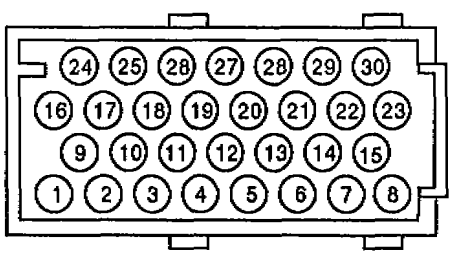


FIG. 4

B300001.00



CONNECTOR VIEWS

FIG. 1

B030024

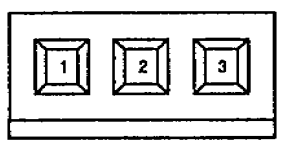


FIG. 2

B120003.00

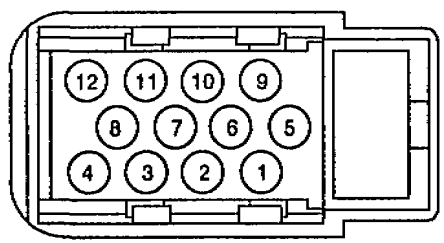


FIG. 3

B120001.00

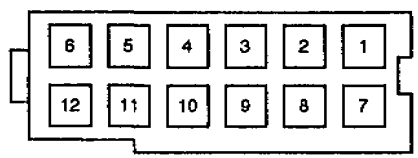


FIG. 4

B080002.00

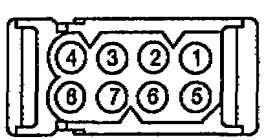


FIG. 5

B180000.00

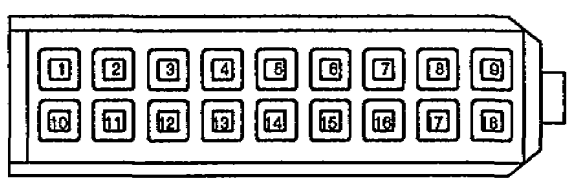
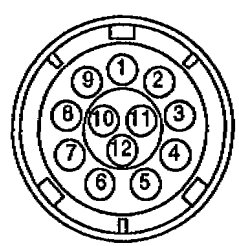


FIG. 6

B120015



CONNECTOR VIEWS

FIG. 1

B030001.00

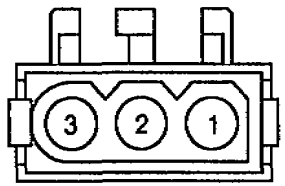


FIG. 2

B080003.00

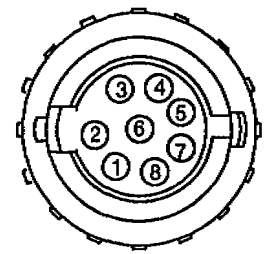


FIG. 3

B170001.00

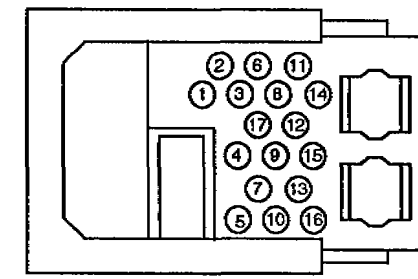


FIG. 4

B100008.00

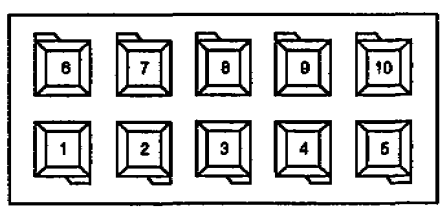


FIG. 5

B030005.00

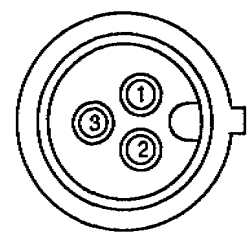
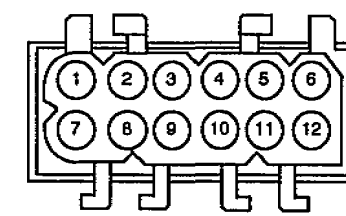


FIG. 6

B120004.01



CONNECTOR VIEWS

FIG. 1

B040002.00

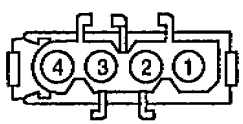


FIG. 2

B050003.00

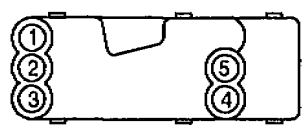


FIG. 3

B040004.00



FIG. 4

B040018

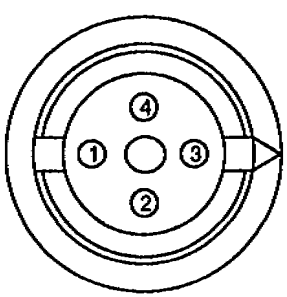


FIG. 5

B080001.00

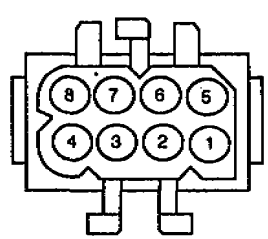


FIG. 6

B090002.00

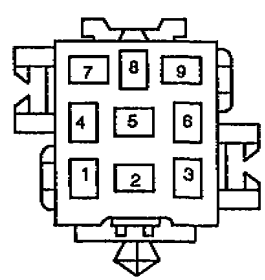


FIG. 1

B210002.00

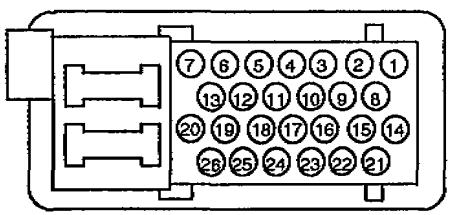


FIG. 2

B060001.02

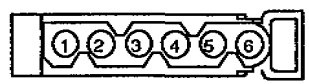


FIG. 3

B070005.00

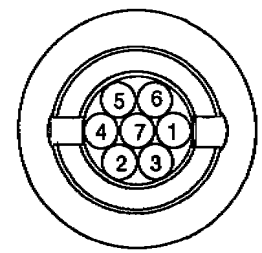


FIG. 4

B200003.00

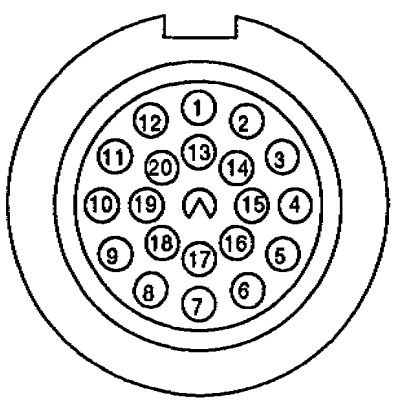


FIG. 5

B060010.01

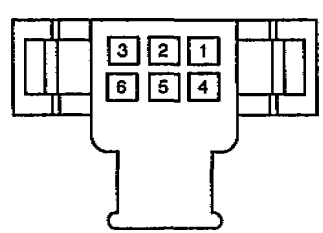


FIG. 6

B030003.02



CONNECTOR VIEWS

FIG. 1

B060008.00

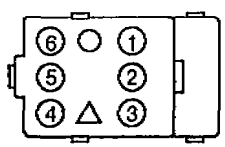


FIG. 2

B250001.01

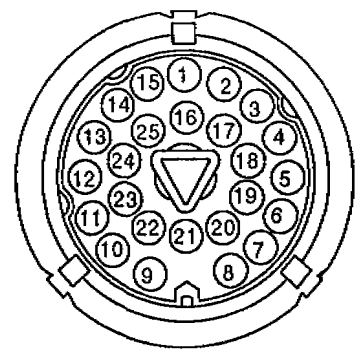


FIG. 3

B060019.02

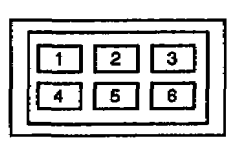


FIG. 4

B060037.00

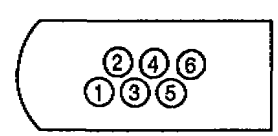


FIG. 1

B880001.00

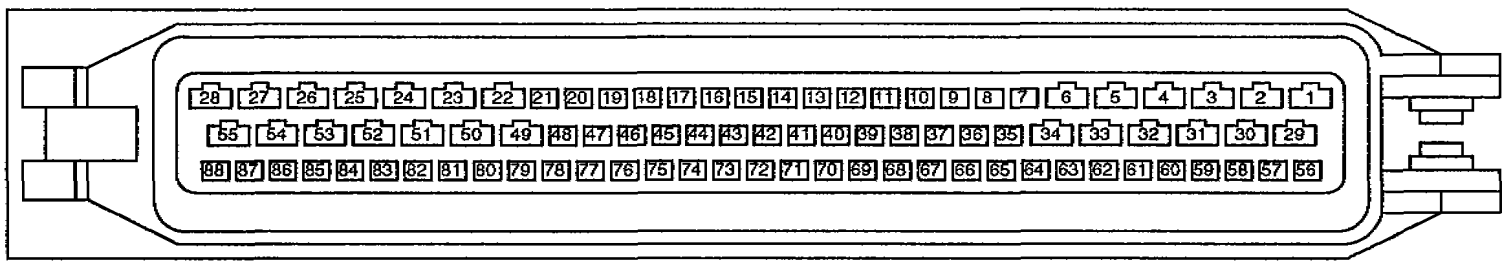


FIG. 2

B060038.00

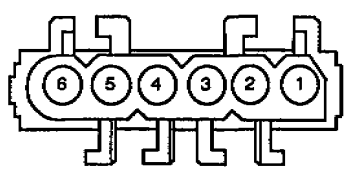
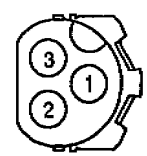


FIG. 3

B030006.00



CONNECTOR VIEWS

FIG. 1

B060012.00

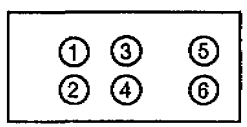


FIG. 2

B040023.00

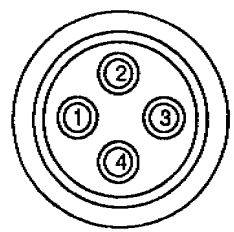


FIG. 3

B030018.00

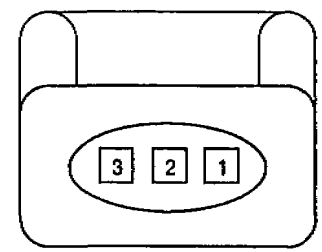


FIG. 4

B030015.08

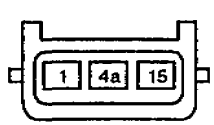


FIG. 5

B030023.00

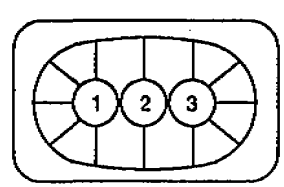


FIG. 6

B040020.00

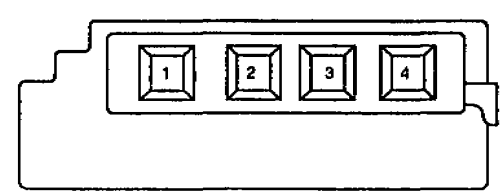


FIG. 1

B030025.00

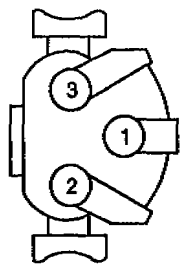


FIG. 2

B060037.01

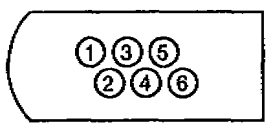


FIG. 3

B030001.00

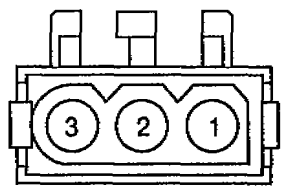


FIG. 4

B060001.00

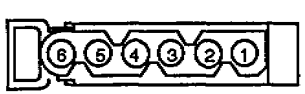


FIG. 5

B120004.05

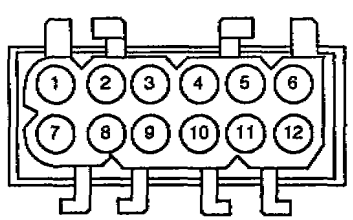


FIG. 6

B060009.00

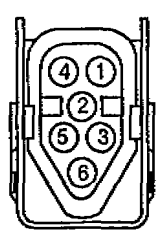


FIG. 1

B100004.01

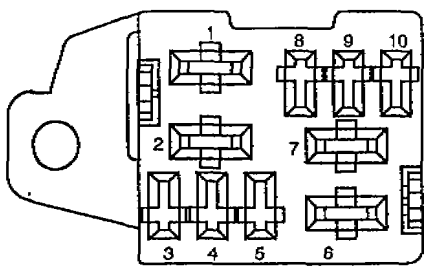


FIG. 2

B180002.00

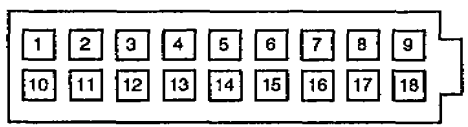


FIG. 3

B060042

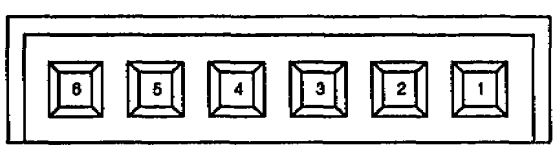


FIG. 4

B100007.00

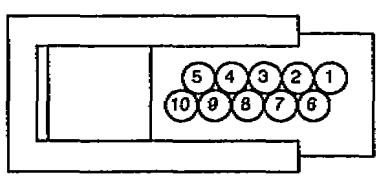


FIG. 1

B030042.01

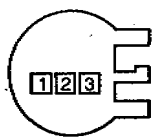


FIG. 2

B300004.00

