

**1994**

**BMW**

**525i, 525it, 530i,  
530it, 540i (E34)**

**Electrical**

**Troubleshooting**

**Manual**

540i Produced 2/93 to 6/94  
525i, 525it, 530i, 530it Produced 9/93 to 6/94

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## ELECTRICAL TROUBLESHOOTING MANUAL

### 5 SERIES – E34 (525i/t, 530i/t, 540i)

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#### MODEL YEAR 1994

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0110.0

## Schematics

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

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

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

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

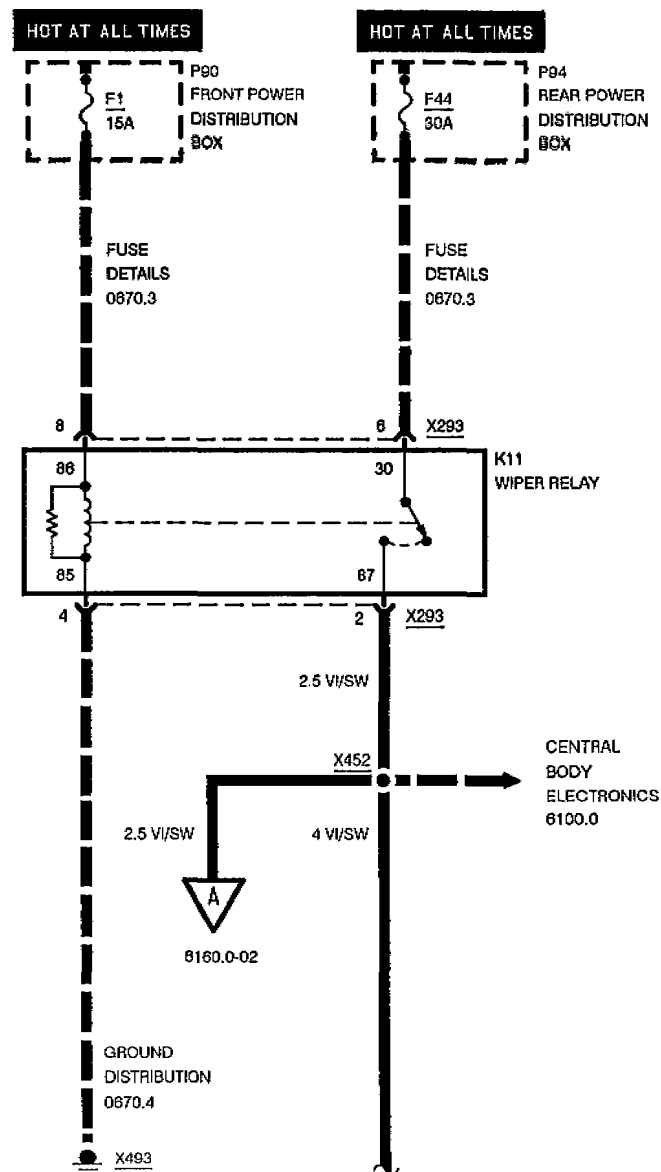
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

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

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

### Example

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



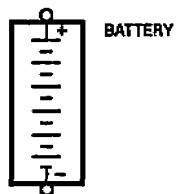


## INTRODUCTION

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### General Conventions

1. Switches and relays are always shown in rest position (e.g. K11).
2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).
3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).
4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.
5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell **0670.3 Fuse Details** at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell **6100.0 Central Body Electronics (ZKE)**. An interrupted line with an arrow indicates that only this one wire leads to another circuit.
7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell **0670.4 Ground Distribution** at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.
8. The interrupted line from splice X452 with an **A** in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.



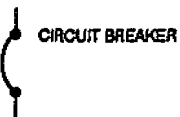
BATTERY



FUSE DETAILS



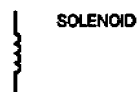
FUSIBLE LINK



CIRCUIT BREAKER



THERMO SWITCH



SOLENOID



SOLENOID CONTROLLED VALVE  
OR CLUTCH SOLENOID



HEATING ELEMENT



LOUDSPEAKER OR HORN



LIGHT



PERMANENT MAGNET MOTOR  
ONE SPEED



PERMANENT MAGNET MOTOR  
TWO SPEEDS



VARIABLE RESISTANCE  
SENSOR  
VARIABLE CONTACT IS  
MOVED BY AN EXTERNAL  
FORCE



VARIABLE RESISTOR  
RESISTANCE IS CHANGED  
BY TEMPERATURE OR  
PRESSURE



INDUCTIVE SENSOR



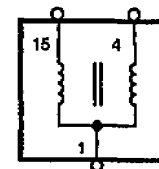
DIODE  
CURRENT CAN FLOW ONLY  
IN DIRECTION OF ARROW



ZENER DIODE  
TO REGULATE VOLTAGE



LIGHT EMITTING DIODE



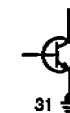
IGNITION COIL



CONTROL/POWER ELECTRONICS



RADIO



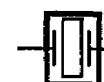
TRANSISTORIZED SWITCH



OXYGEN SENSOR

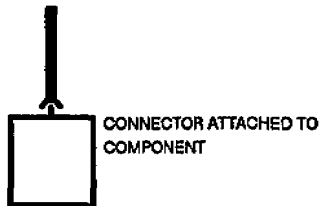
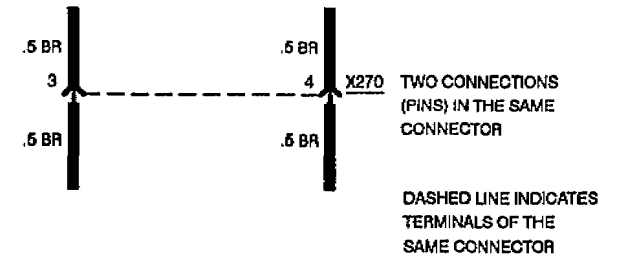
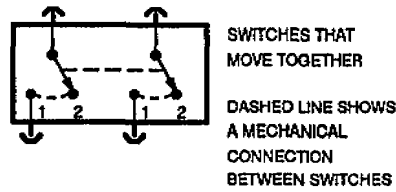
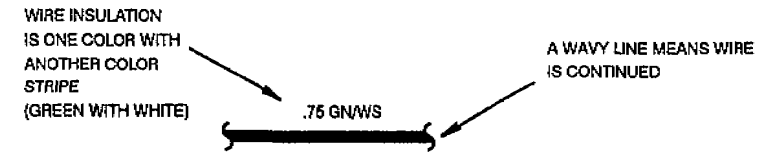
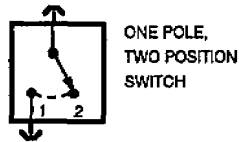
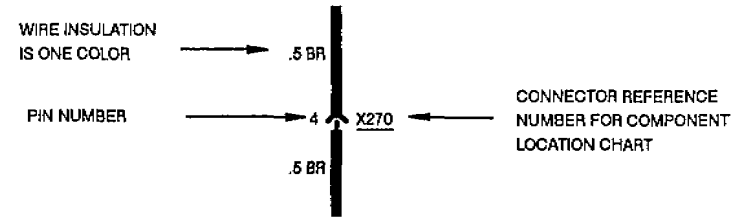
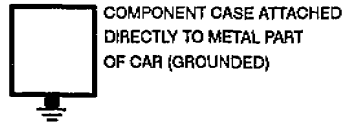


VEHICLE SPEED SENSOR

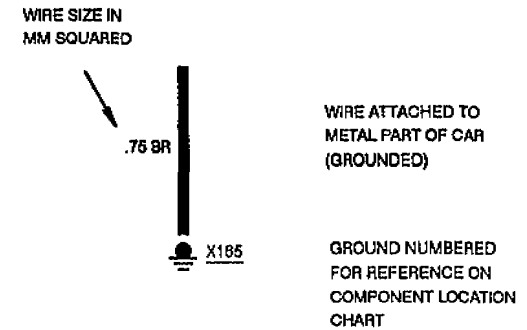
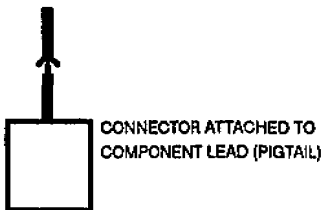


KNOCK SENSOR

# SYMBOLS



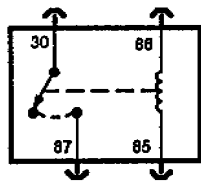
WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT



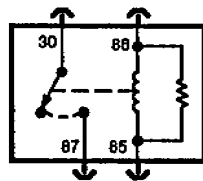




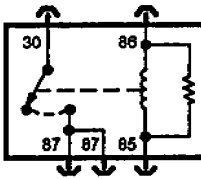
# SYMBOLS



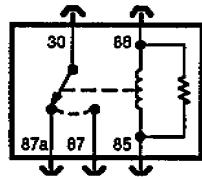
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

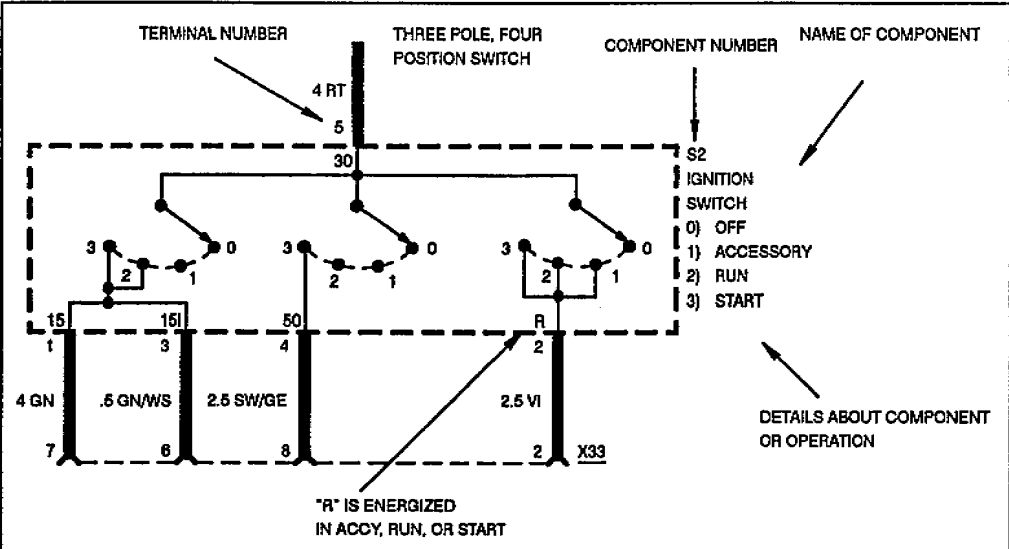


CONTACT RELAY WITH TWO OUTPUTS



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

**HOT AT ALL TIMES**



INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

**POWER STATUS**

**HOT AT ALL TIMES**

**HOT IN RUN AND START**

**HOT IN ACCY, RUN AND START**

**DESCRIPTION**

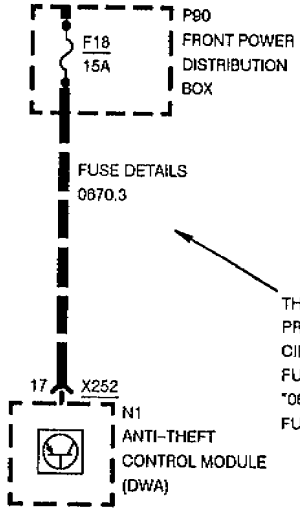
VOLTAGE: SUPPLIED AT ALL TIMES

VOLTAGE: IGNITION SWITCH IN RUN OR START

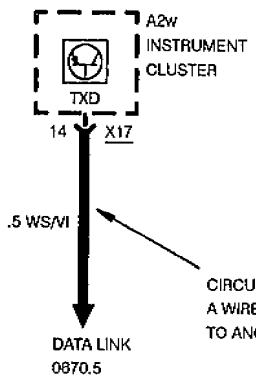
VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

**SYMBOLS**

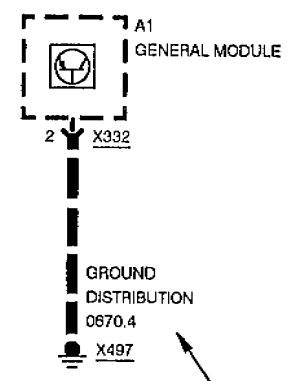
**HOT IN ACCY, RUN AND START**



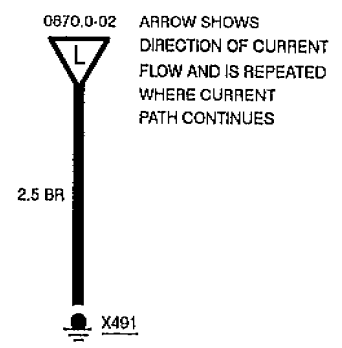
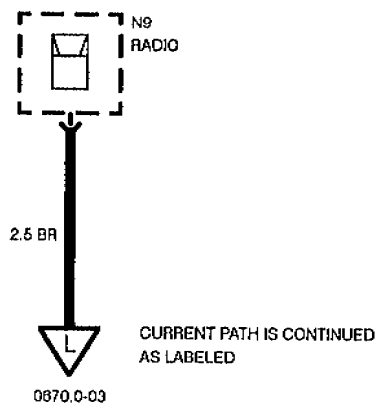
THE COMPLETE WIRE  
PROGRESSION AND FURTHER  
CIRCUITS CONNECTED TO  
FUSE 18 ARE SHOWN IN CELL  
"0870.3 FUSE DETAILS" AT  
FUSE 18



CIRCUIT REFERENCE--  
A WIRE WHICH CONNECTS  
TO ANOTHER CIRCUIT



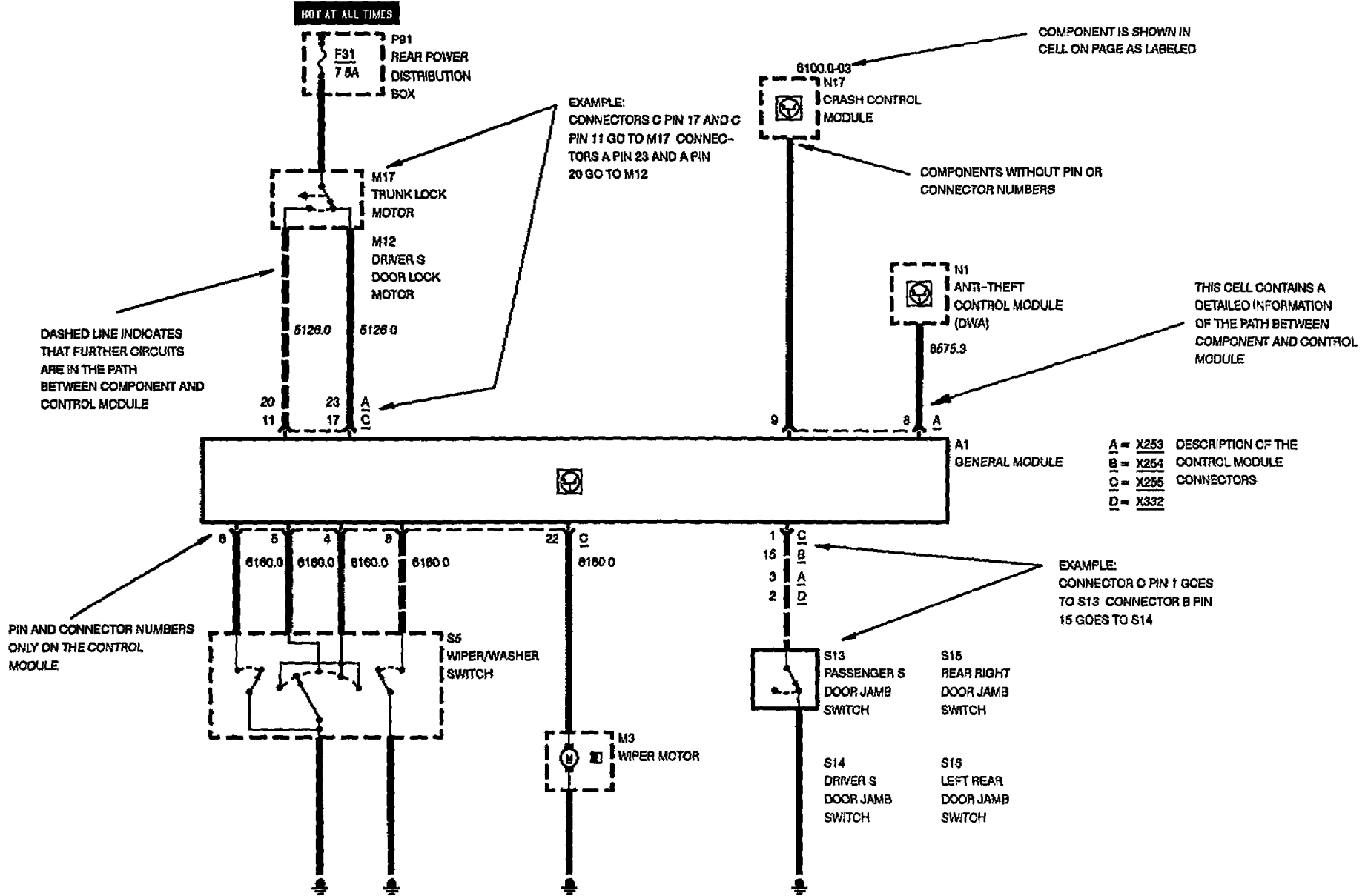
THE COMPLETE WIRE  
PROGRESSION AND FURTHER  
CIRCUITS CONNECTED TO  
GROUND X497 ARE SHOWN IN  
CELL "0870.4 GROUND  
DISTRIBUTION" AT  
GROUND X497





# SYMBOLS

## BLOCK DIAGRAM



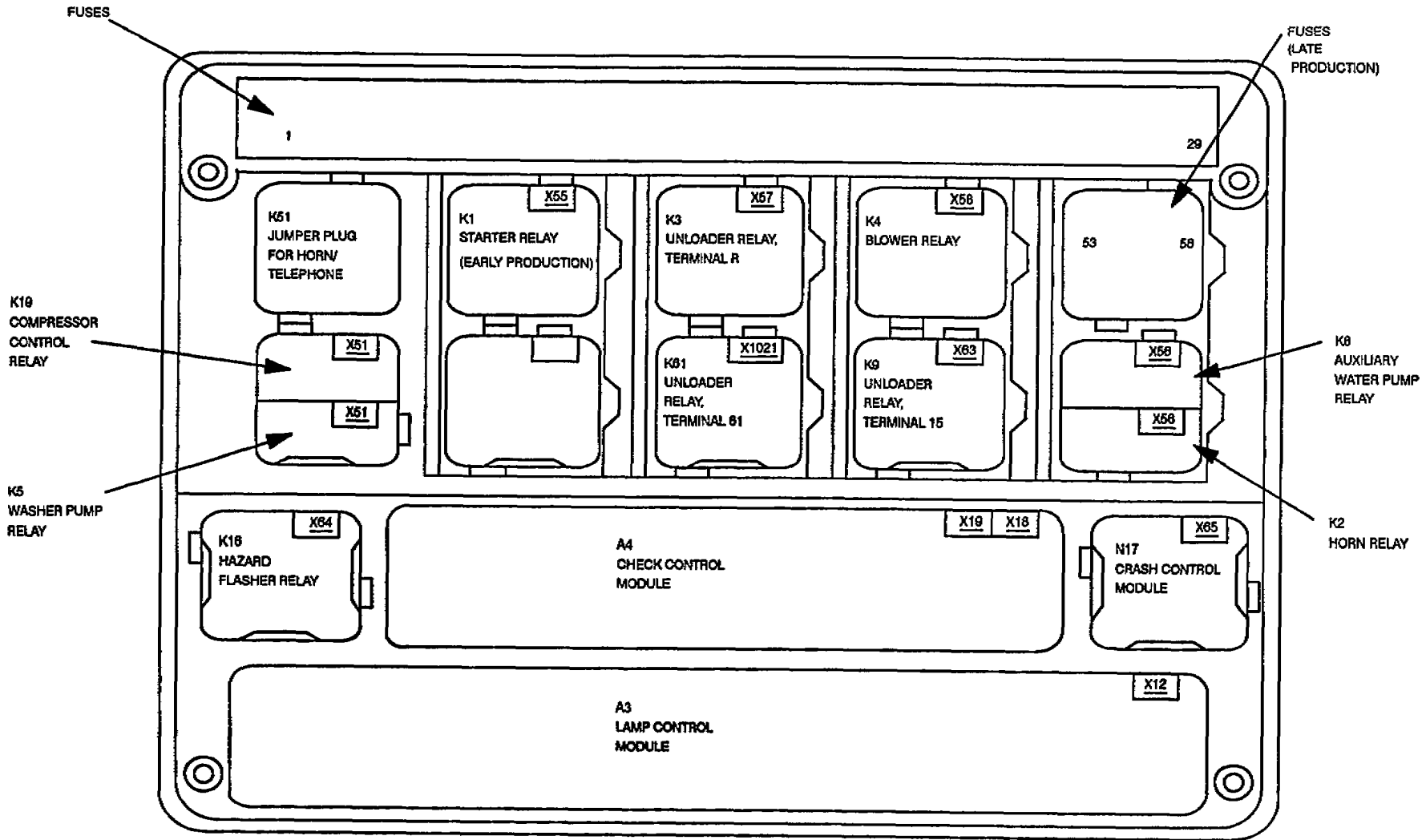
BMW  
5

0670.0



# POWER DISTRIBUTION CHART

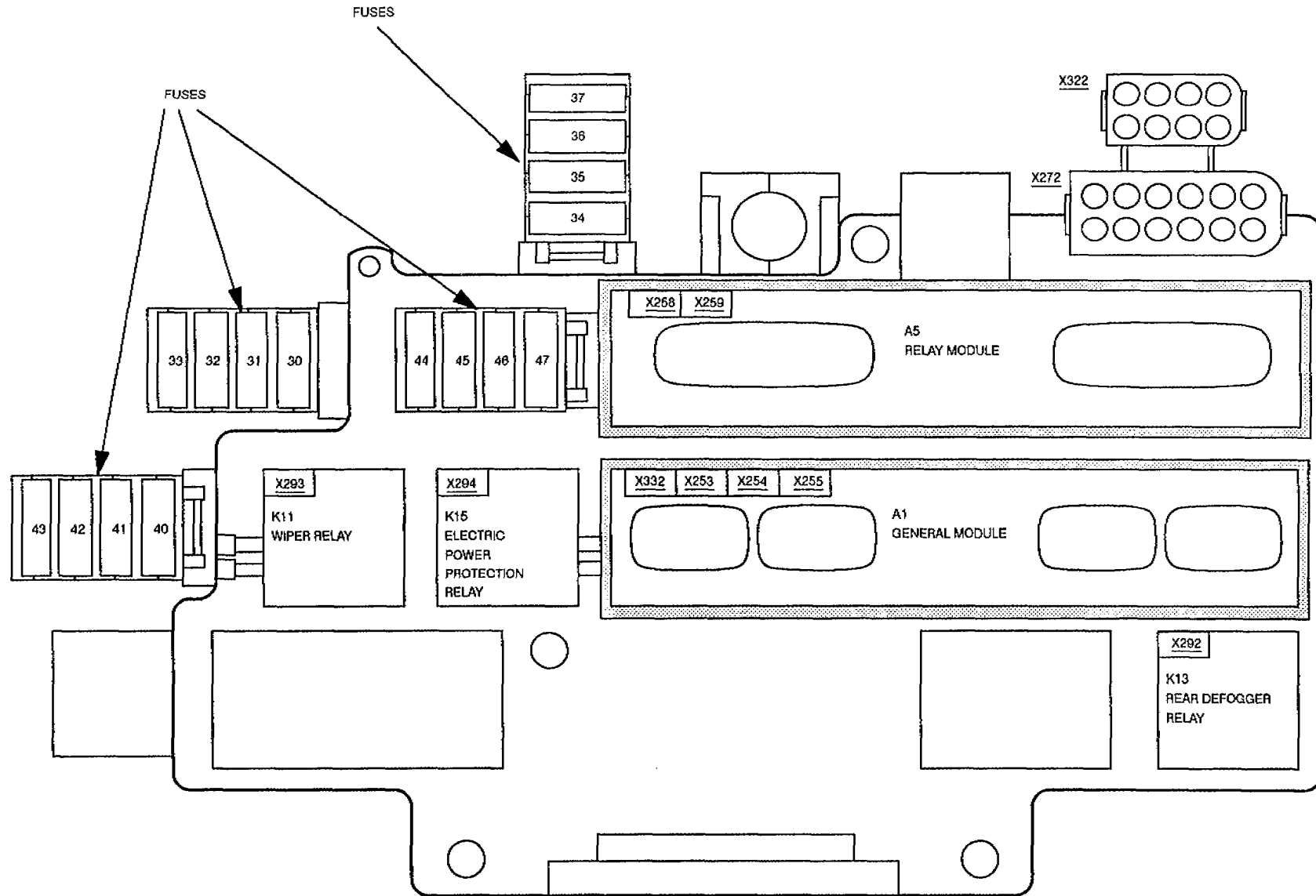
## FRONT POWER DISTRIBUTION BOX





# POWER DISTRIBUTION CHART

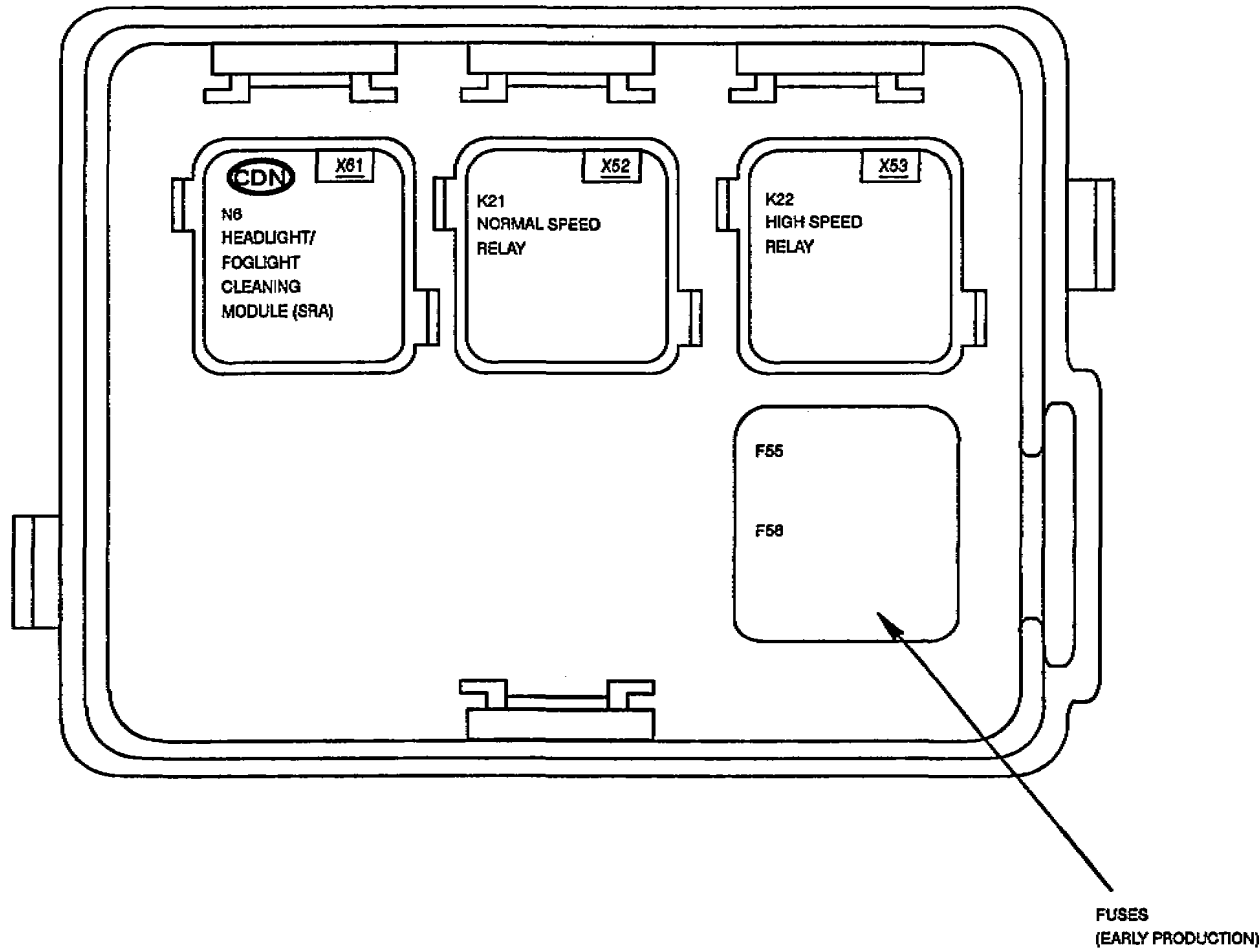
## REAR POWER DISTRIBUTION BOX





# POWER DISTRIBUTION CHART

## AUXILIARY RELAY BOX



BMW  
5

0670.1





# FUSE CHART

## FUSES 1 TO 29

	FUSE NUMBER																												
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
1210.11 ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)		●																					●						
1210.13 ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																	●						●						
1230.0 CHARGING SYSTEM																	●											●	
1240.0 START																	●												
1290.0 E-BOX FAN																	●												
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)	●																●												
2460.7 ELECTRONIC TRANSMISSION CONTROL (AGS: GS 9.22/A5S 560Z)	●											●					●												
2460.8 ELECTRONIC TRANSMISSION CONTROL (AGS: GS 7.32/A5S 310Z)	●											●					●												
3231.0 ELECTRIC STEERING COLUMN ADJUSTMENT																													
3231.1 STEERING COLUMN MEMORY (LSM)																●		●											
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																													
3450.0 SLIP CONTROL (ABS)	●																●												
3450.2 SLIP CONTROL (ABS/ASC+T)	●																●												
3450.5 SLIP CONTROL 5 (ASC 5)	●											●					●												
5116.0 POWER MIRRORS												●						●											
5120.0 ZKE DOOR LOCK HEATING (TSH)																	●												
5126.0 ZKE CENTRAL LOCKING (ZV)																	●												
5133.0 ZKE POWER WINDOWS (FH)																	●												
5200.0 POWER SEATS																													



# 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
	15A	7.5A	7.5A	7.5A	10A	15A	15A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
5200.1 SEAT/MIRROR MEMORY SYSTEM (SM/SPM)												●				●		●											
5203.0 HEATED SEATS																●													
5212.0 LUMBAR SUPPORT																●													
5410.0 ZKE SUNROOF (SHD)																		●											
5410.2 DOUBLE PANEL POWER SUNROOF (ZKE)																													
6100.0 CENTRAL BODY ELECTRONICS (ZKE)			●	●	●												●								●				
6133.0 HORN								●																					
6160.0 ZKE WIPER/WASHER CONTROL	●																								●				
6162.0 REAR WINDOW WIPER/WASHER CONTROL																			●										
6167.0 ZKE HEADLIGHT WASHER (SRA)			●	●	●													●				●							
6169.0 WINDSHIELD WASHER JET HEATERS												●																	
6200.0 INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)	●																	●			●								●
6213.2 MULTI-FUNCTION CLOCK	●																				●								
6300.0 LIGHT SWITCH DETAILS		●	●	●	●																								
6301.0 LAMP MONITOR (LKM)	●	●	●	●	●		●			●	●		●	●	●														
6312.0 HEADLIGHTS/ FOG LIGHTS		●	●		●		●			●	●		●	●															
6313.0 TURN/HAZARD LIGHTS		●	●			●							●	●															
6314.0 PARK/TAIL/ UNDERHOOD LIGHTS				●	●										●														
6320.0 LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS					●										●							●							



# 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
	15A	7.5A	7.5A	7.5A	10A	16A	16A		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
6322.0 BACK UP LIGHTS												●																	
6325.0 BRAKE LIGHTS	●														●														
6330.0 ZKE INTERIOR LIGHTS CONTROL (IB)																		●			●								
6332.0 INTERIOR ACCESSORIES					●													●			●					●			
6350.0 CRASH CONTROL MODULE						●							●	●															
6412.19 PARK VENTILATION WITH IHKR/F3																				●	●								
6424.0 REAR WINDOW DEFOGGER																													
6450.5 INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)									●												●	●					●		●
6454.0 AUXILIARY FAN																										●			●
6510.1 RADIO/HIFI																													
6510.2 RADIO PROVISIONS																													
6561.0 CELLULAR TELEPHONE (PROVISIONS)																													
6571.0 CRUISE CONTROL (TEMPOMAT)	●																●												
6575.2 ANTI-THEFT SYSTEM (ALPINE)																													
6575.3 ANTI-THEFT SYSTEM IV (DWA IV)	●																	●				●							
6581.0 ON-BOARD COMPUTER (BCIV)	●																	●				●							
6610.1 REMOTE CONTROLLED LOCKING SYSTEM																													



# FUSE CHART

## FUSES 30 TO 56

	FUSE NUMBER																												
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56		
	10A		7.5A	7.5A	30A	30A	30A	30A				7.5A	30A	30A	30A	20A			10A								50A	25A	
1210.11 ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)																													
1210.13 ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)																													
1230.0 CHARGING SYSTEM																													
1240.0 START																													
1290.0 E-BOX FAN																													
2460.2 ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																													
2460.7 ELECTRONIC TRANSMISSION CONTROL (AGS: GS 9.22/A5S 560Z)																													
2460.8 ELECTRONIC TRANSMISSION CONTROL (AGS: GS 7.32/A5S 310Z)																													
3231.0 ELECTRIC STEERING COLUMN ADJUSTMENT												●																	
3231.1 STEERING COLUMN MEMORY (LSM)													●																
3234.0 SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																		●											
3450.0 SLIP CONTROL (ABS)																											●		
3450.2 SLIP CONTROL (ABS/ASC+T)																											●	●	
3450.5 SLIP CONTROL 5 (ASC 5)																											●	●	
5116.0 POWER MIRRORS																													
5120.0 ZKE DOOR LOCK HEATING (TSH)			●																										
5126.0 ZKE CENTRAL LOCKING (ZV)			●	●				●								●													
5133.0 ZKE POWER WINDOWS (FH)			●	●				●																					
5200.0 POWER SEATS													●	●															



# FUSE CHART

## FUSES 30 TO 56

	FUSE NUMBER																													
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56			
	10A		7.5A	7.5A	30A	30A	30A	30A				7.5A	30A	30A	30A	20A			10A									50A	25A	
5200.1 SEAT/MIRROR MEMORY SYSTEM (SM/SPM)													●																	
5203.0 HEATED SEATS																														
5212.0 LUMBAR SUPPORT																														
5410.0 ZKE SUNROOF (SHD)			●	●				●																						
5410.2 DOUBLE PANEL POWER SUNROOF (ZKE)			●																											
6100.0 CENTRAL BODY ELECTRONICS (ZKE)			●					●																						
6133.0 HORN																														
6160.0 ZKE WIPER/WASHER CONTROL					●																									
6162.0 REAR WINDOW WIPER/WASHER CONTROL																●														
6167.0 ZKE HEADLIGHT WASHER (SRA)																														
6169.0 WINDSHIELD WASHER JET HEATERS																														
6200.0 INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)																														
6213.2 MULTI-FUNCTION CLOCK																														
6300.0 LIGHT SWITCH DETAILS																														
6301.0 LAMP MONITOR (LKM)																														
6312.0 HEADLIGHTS/ FOG LIGHTS																														
6313.0 TURN/HAZARD LIGHTS																														
6314.0 PARK/TAIL/ UNDERHOOD LIGHTS																														
6320.0 LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																														



# FUSE CHART

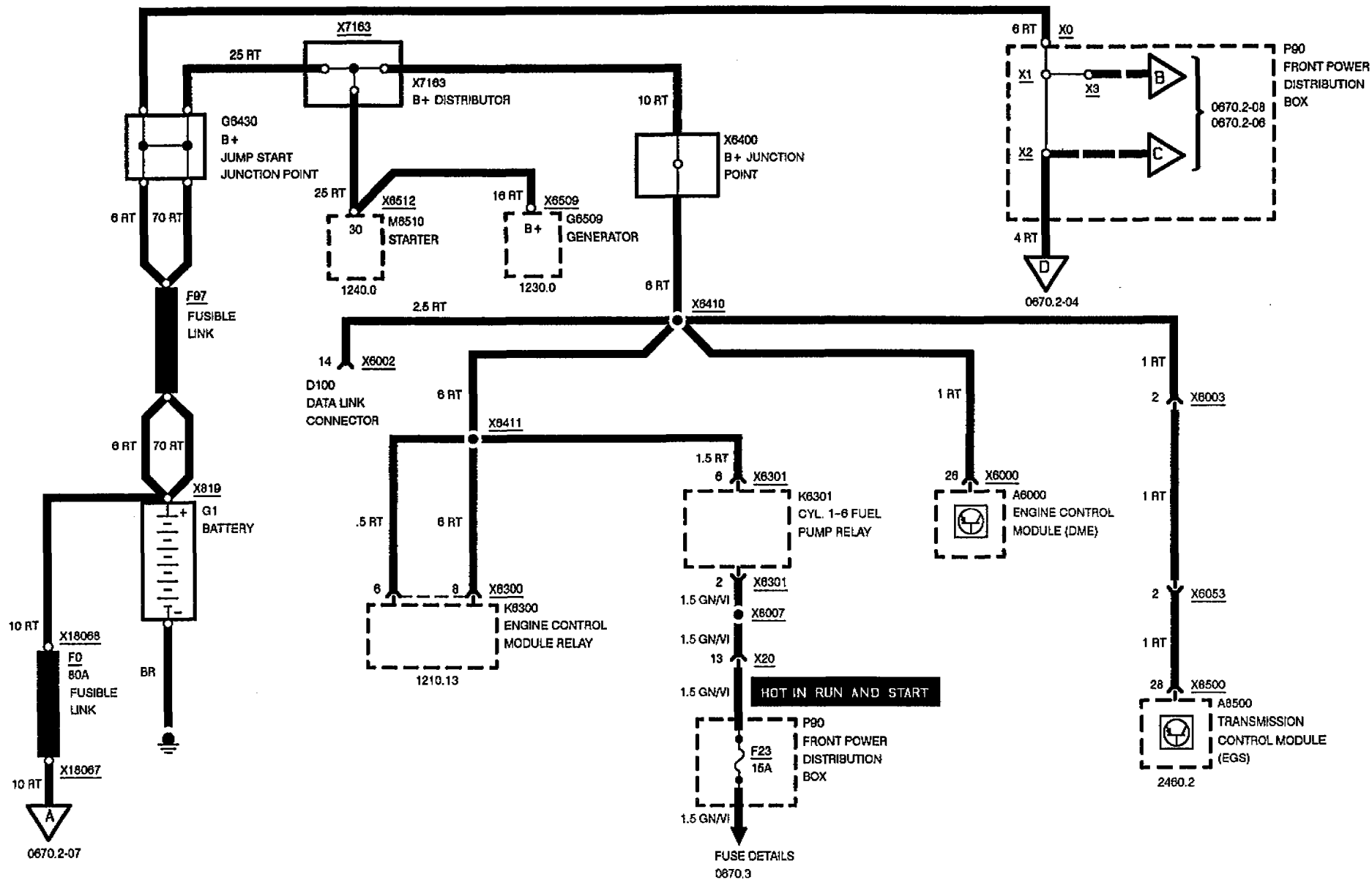
## FUSES 30 TO 56

	FUSE NUMBER																												
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56		
	10A		7.5A	7.5A	30A	30A	30A	30A				7.5A	30A	30A	30A	20A			10A								50A	25A	
6322.0																													
6325.0																													
6330.0			●																										
6332.0																													
6350.0																													
6412.19																													
6424.0						●																							
6450.5																													
6454.0																													
6510.1							●																						
6510.2							●																						
6561.0											●																		
6571.0																													
6575.2								●																					
6575.3			●	●	●																								
6581.0																													
6610.1				●																									



# POWER DISTRIBUTION

525i/t



12/94

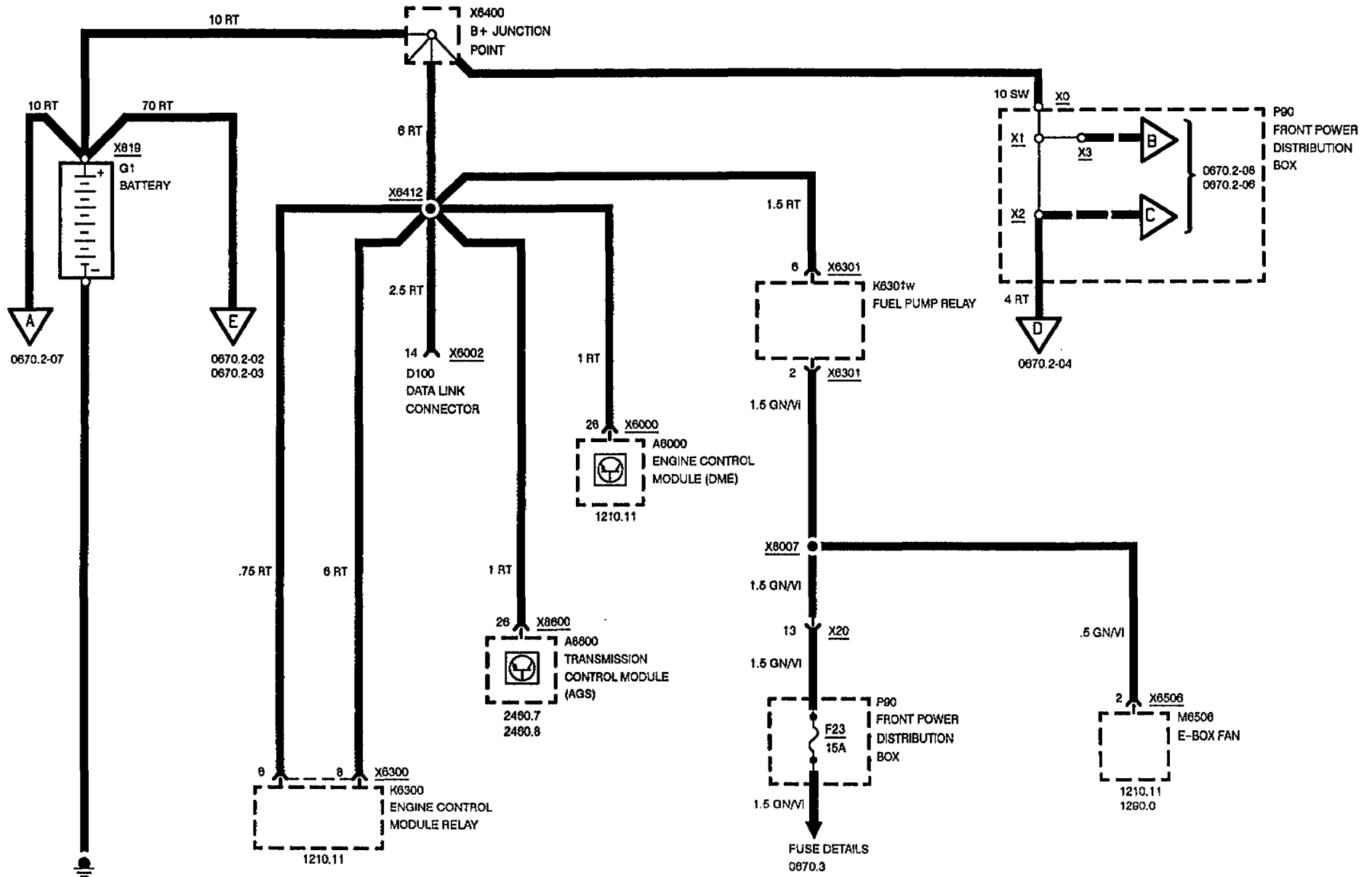
0670.2-00

1994



# POWER DISTRIBUTION

530i/t, 540i



12/94

0670.2-01

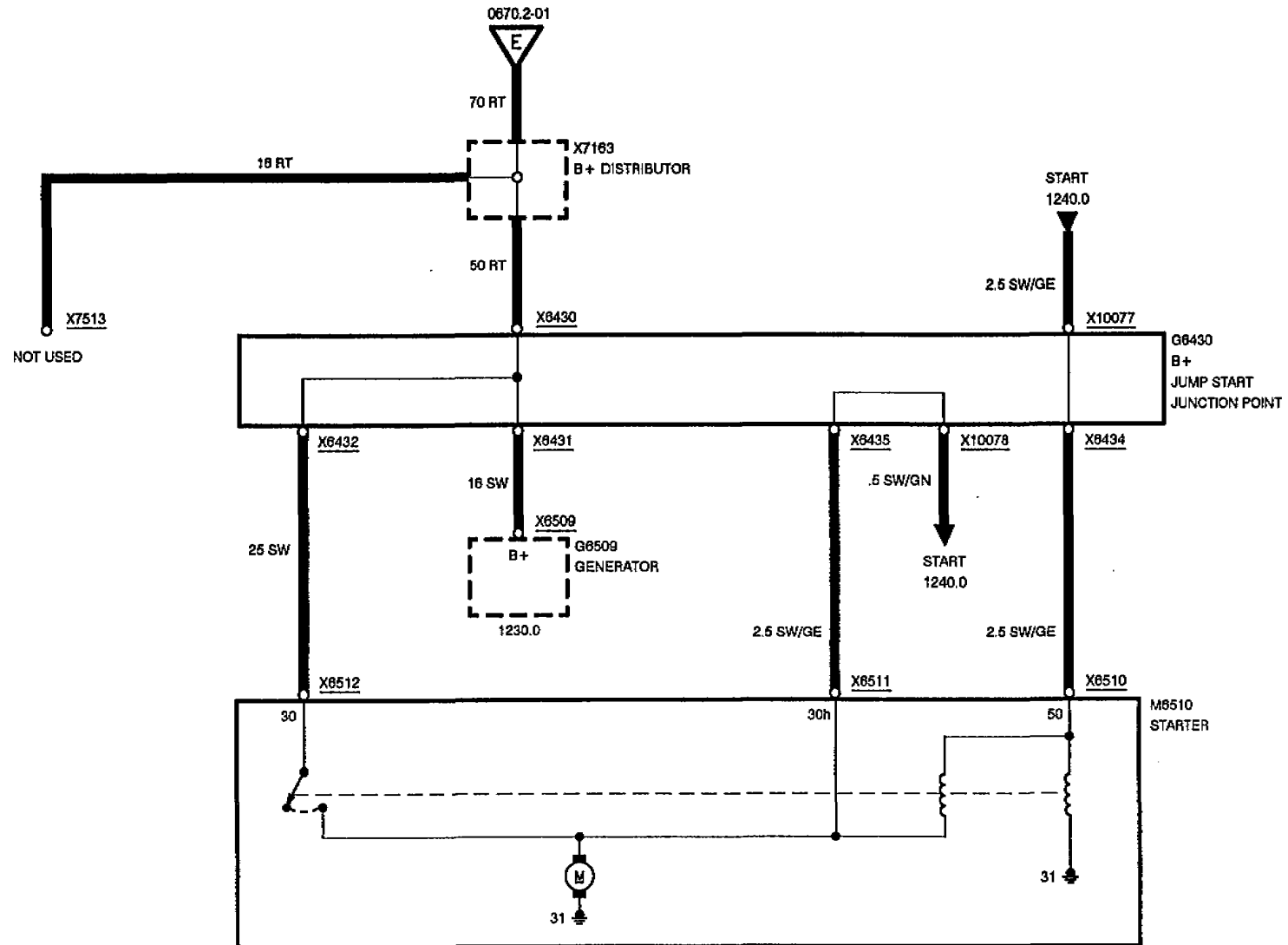
1994





# POWER DISTRIBUTION

530i/t, 540i EARLY PRODUCTION



12/94

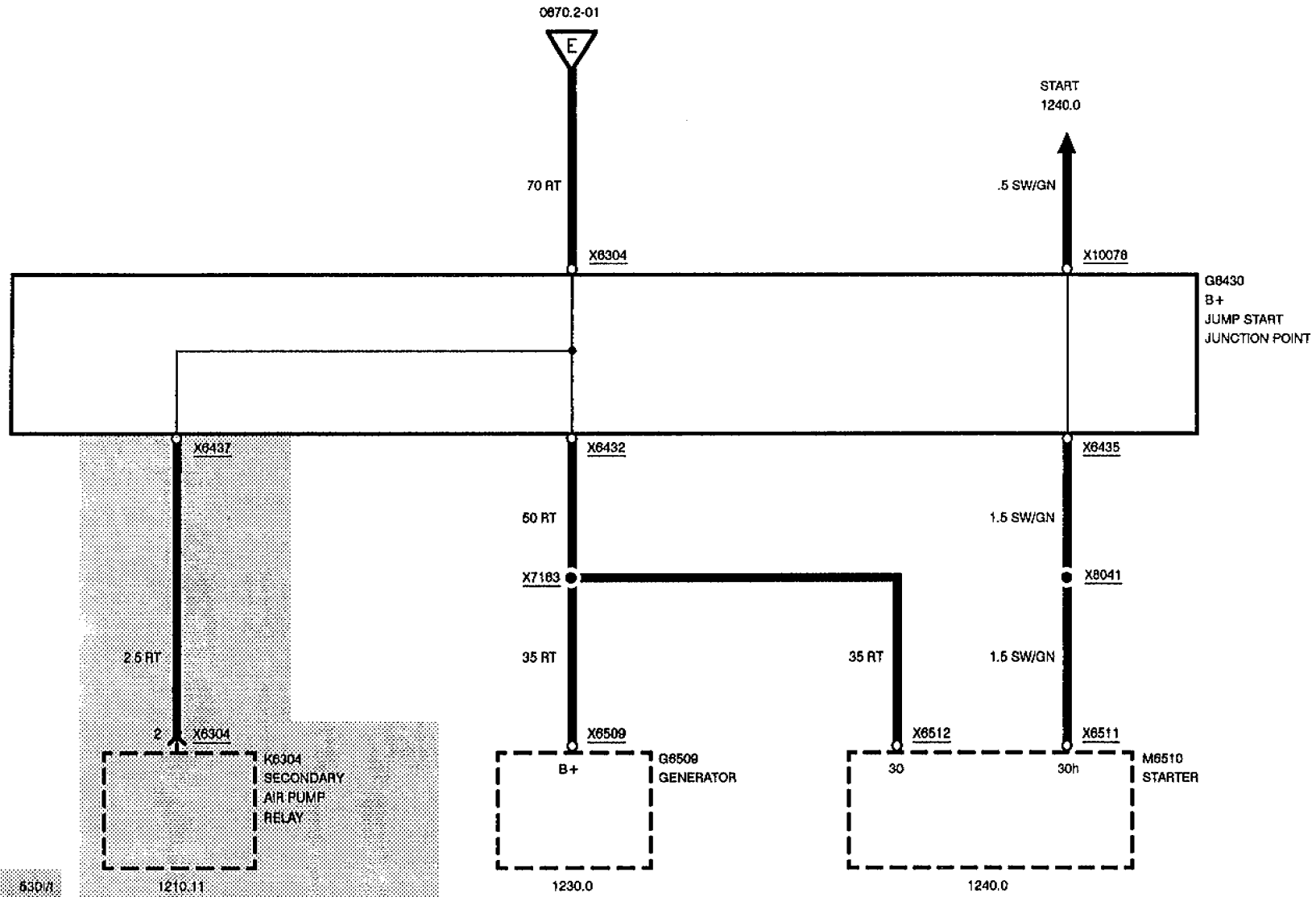
0670.2-02

1994



# POWER DISTRIBUTION

530i/t, 540i LATE PRODUCTION



12/94

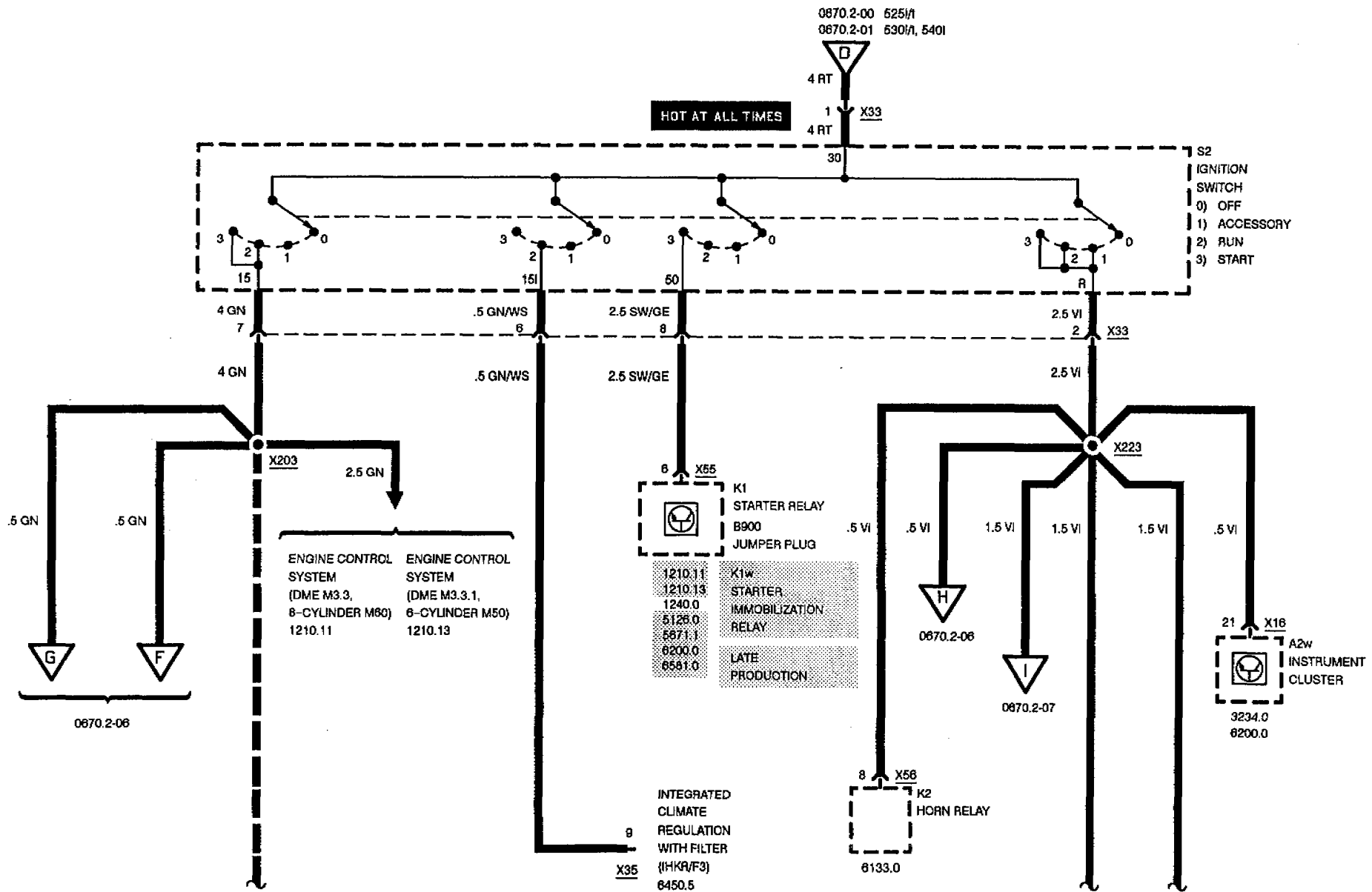
0670.2-03

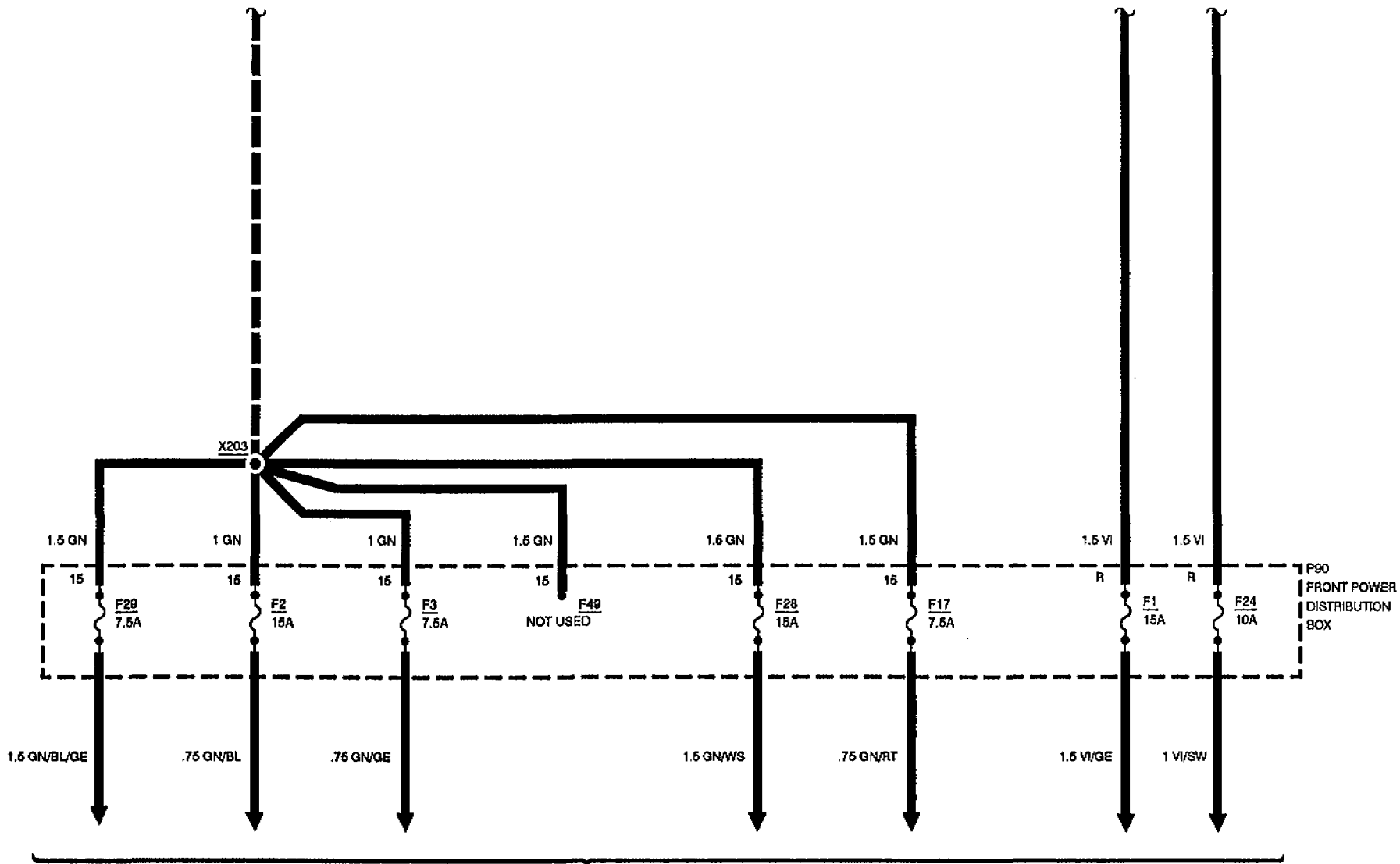
1994



# POWER DISTRIBUTION

## FRONT POWER DISTRIBUTION BOX



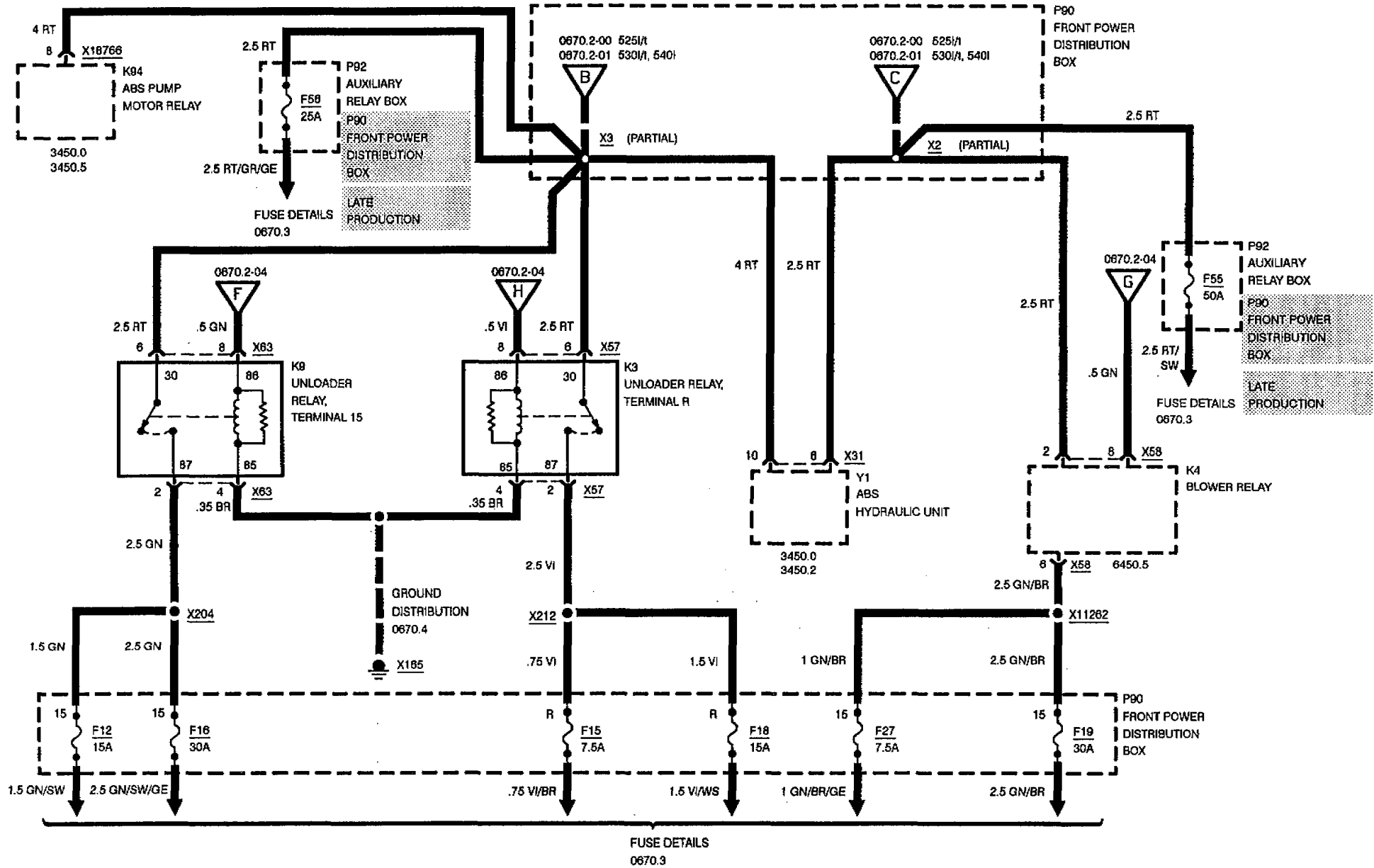


FUSE DETAILS  
0670.3



# POWER DISTRIBUTION

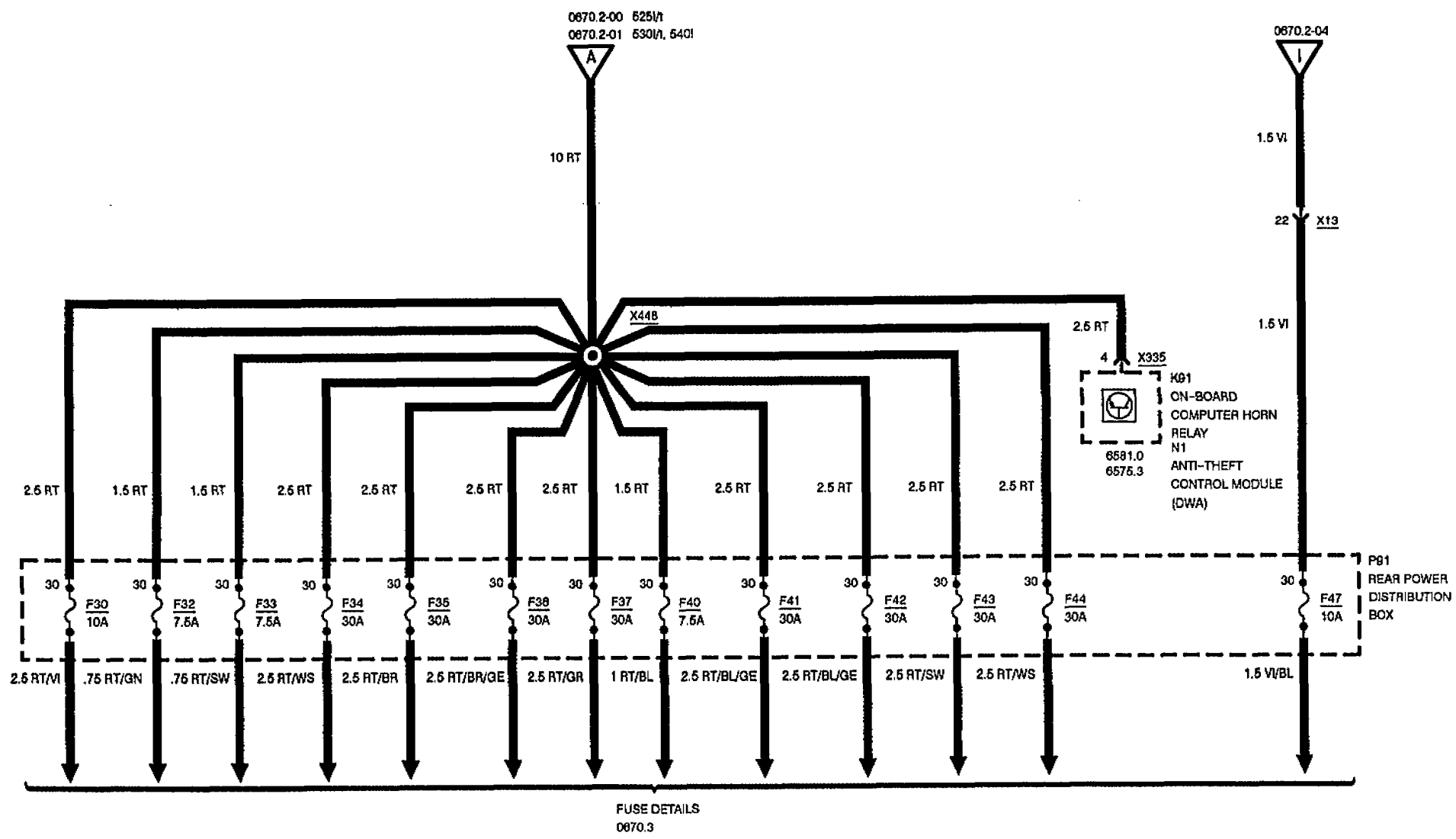
## FRONT POWER DISTRIBUTION BOX





# POWER DISTRIBUTION

## REAR POWER DISTRIBUTION BOX

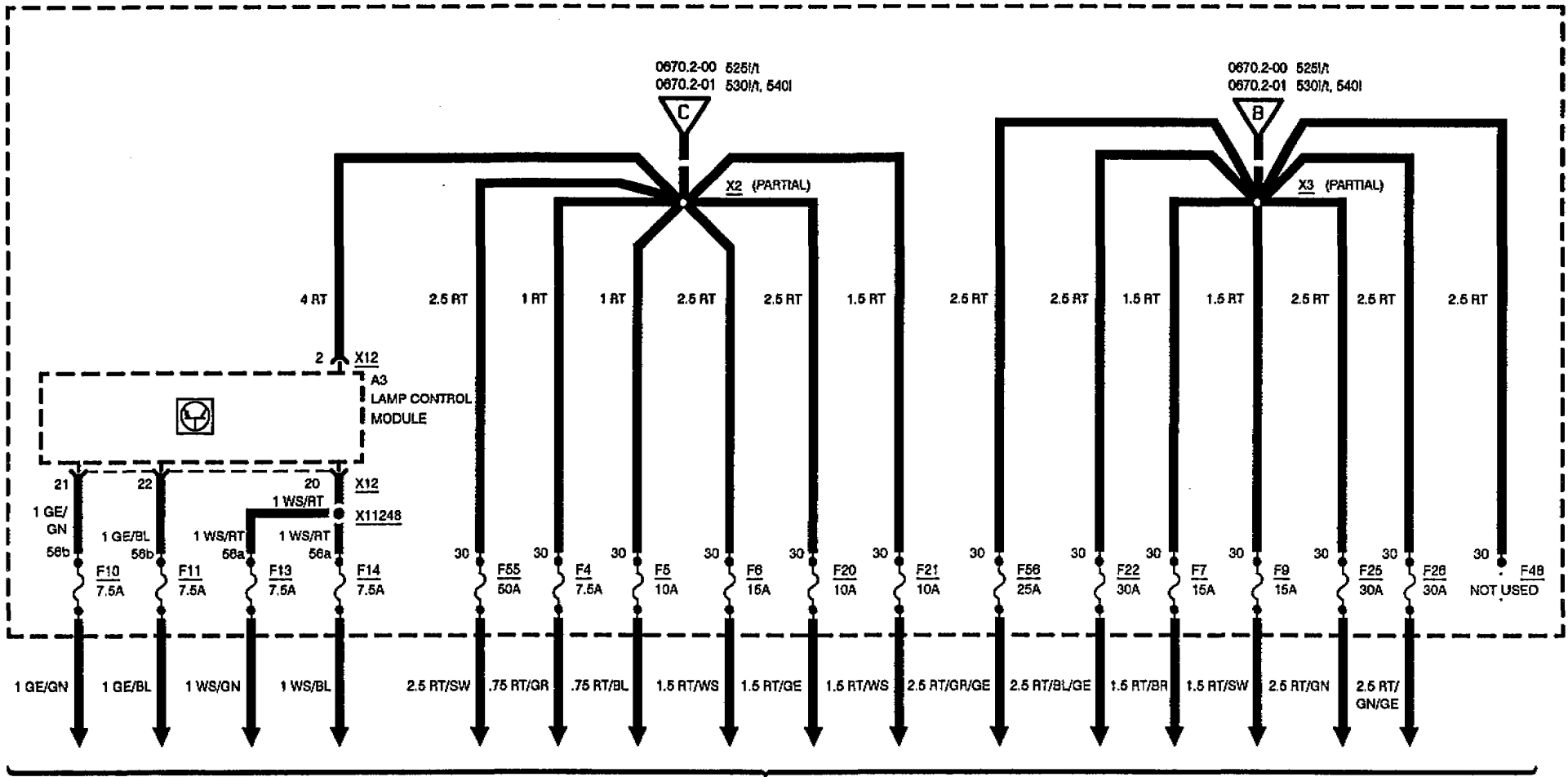




# POWER DISTRIBUTION

## FRONT POWER DISTRIBUTION BOX

P90  
FRONT POWER  
DISTRIBUTION  
BOX



FUZE DETAILS  
0670.3

BMW  
5

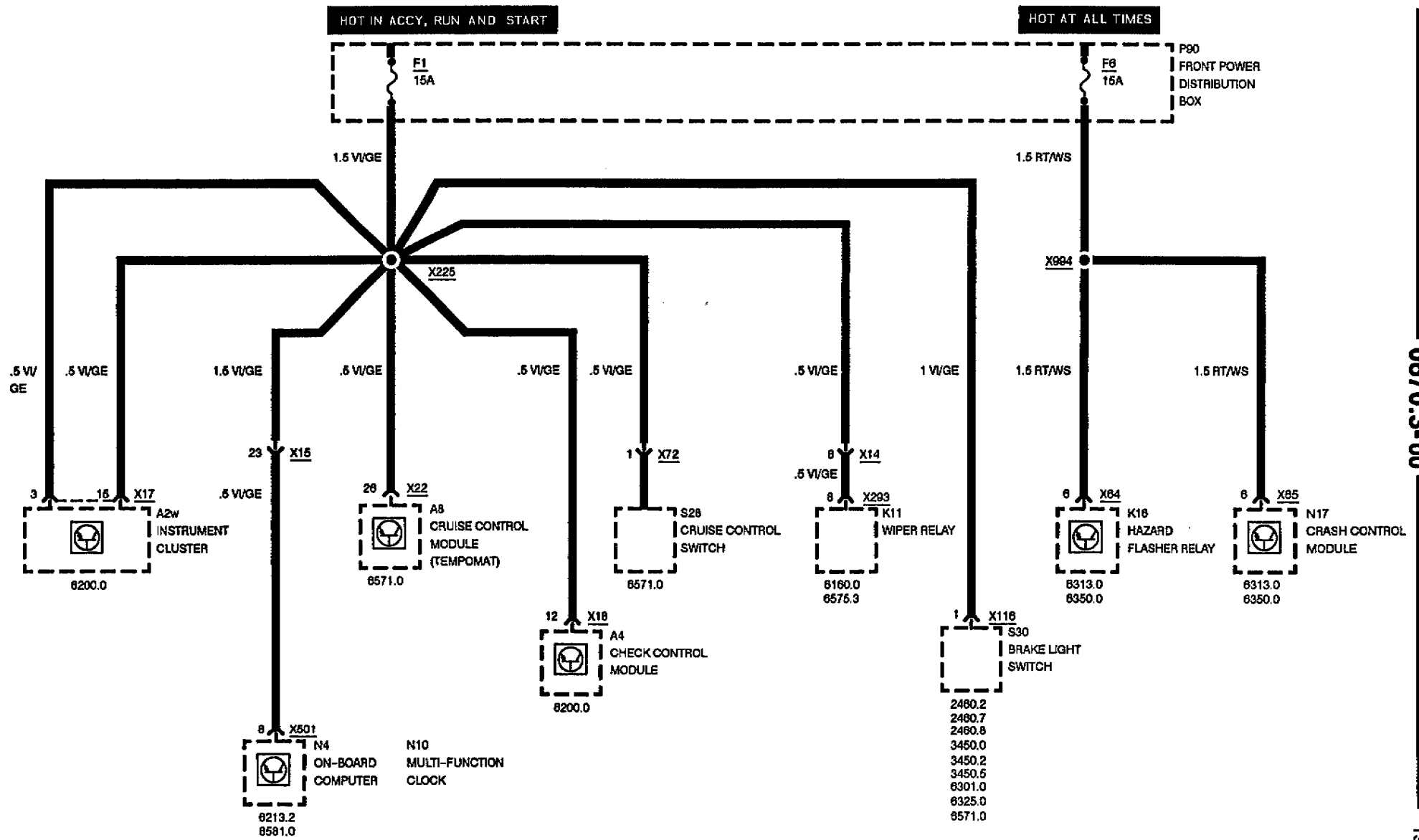
0670.3





# FUSE DETAILS

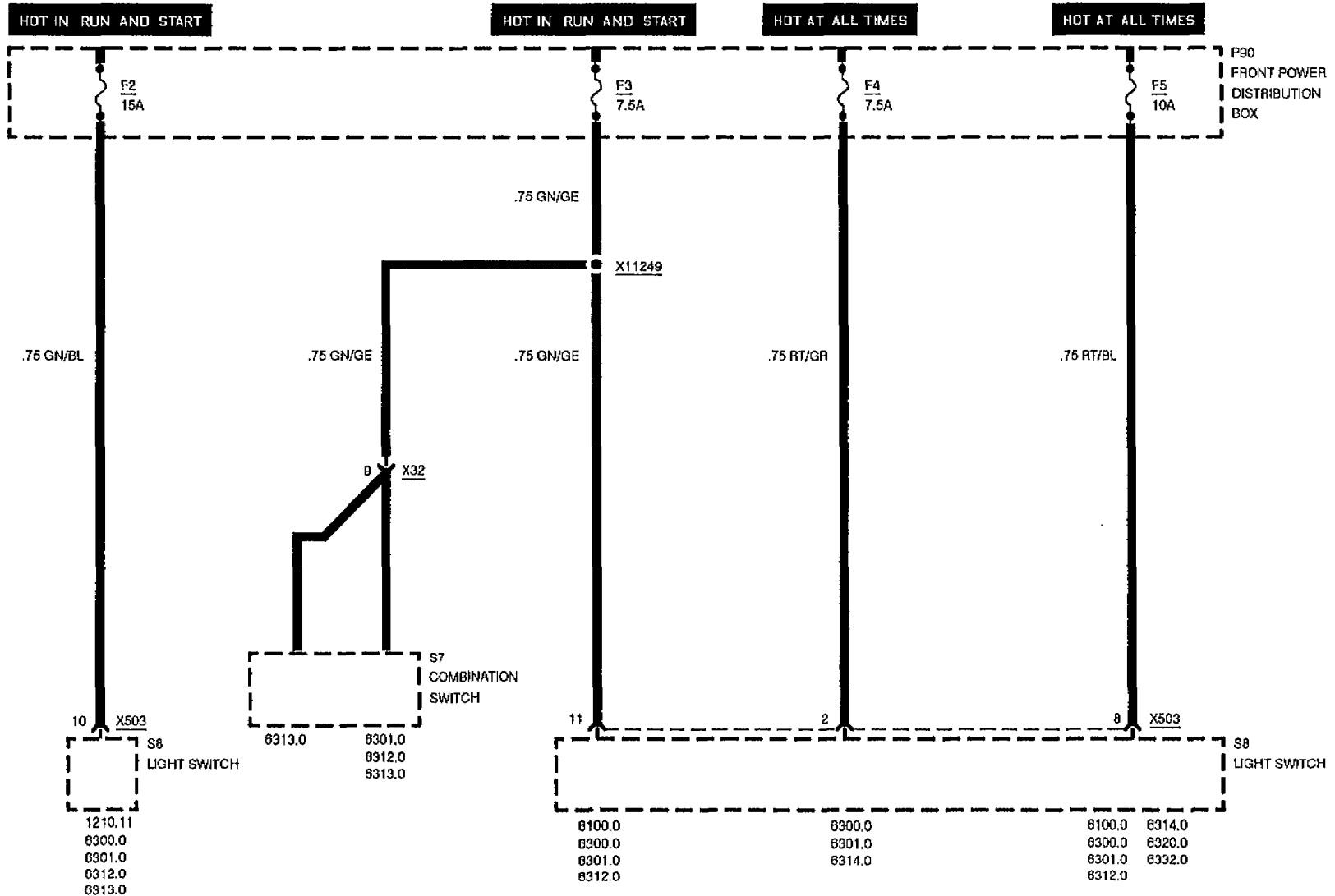
## FUSES 1 AND 6





# FUSE DETAILS

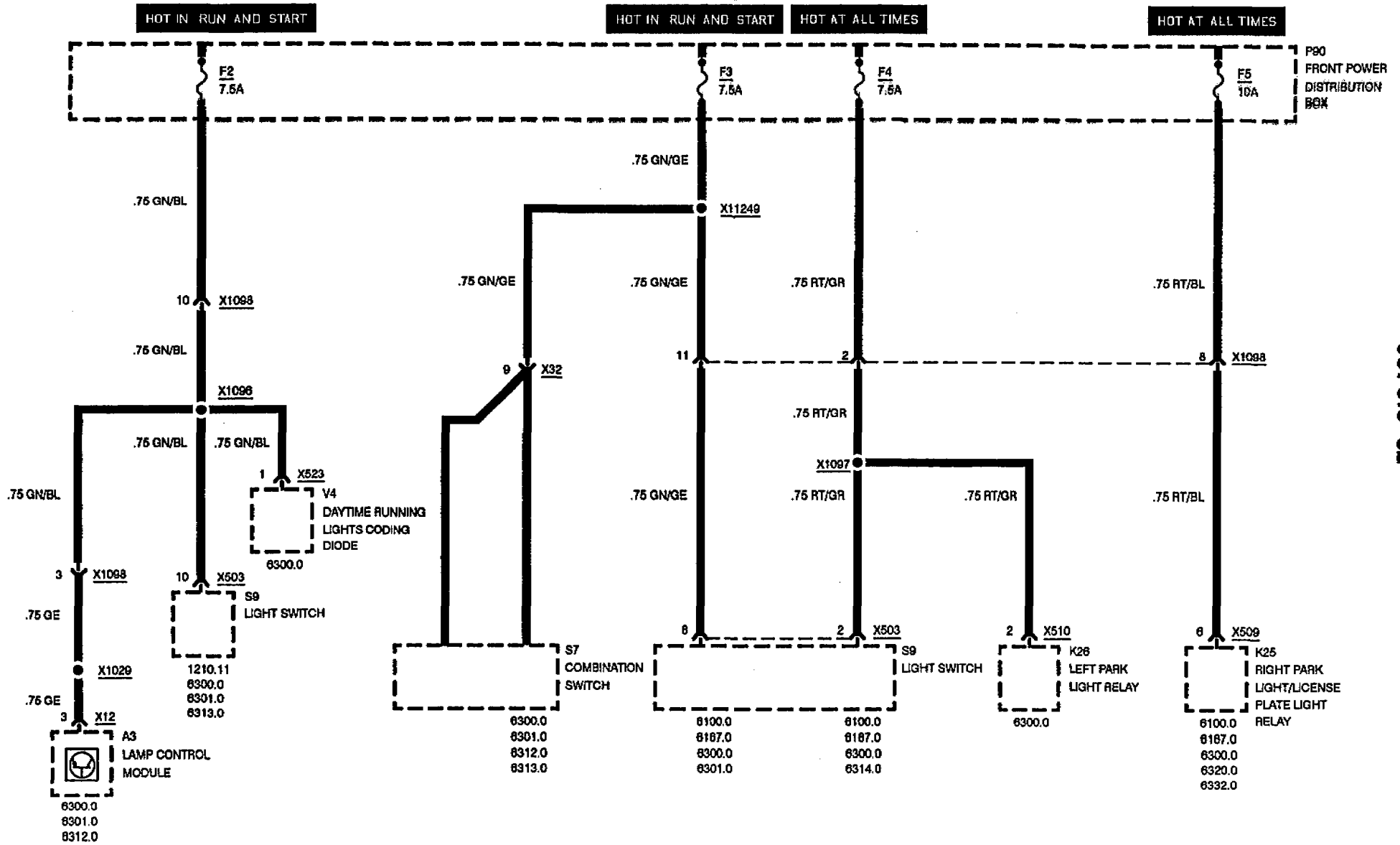
## FUSES 2, 3, 4, AND 5





# FUSE DETAILS

## FUSES 2, 3, 4, AND 5



12/94

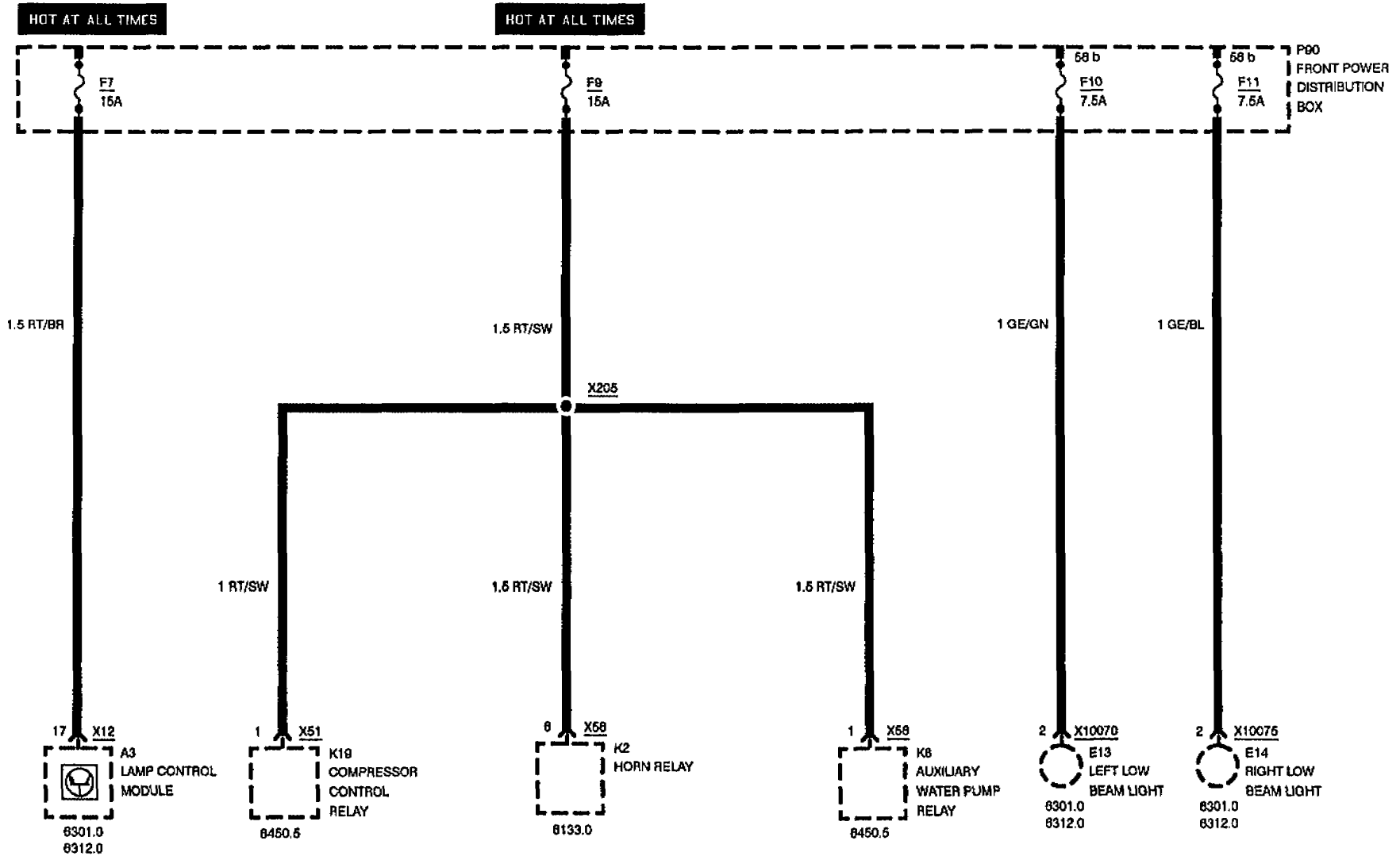
0670.3-02

1994



# FUSE DETAILS

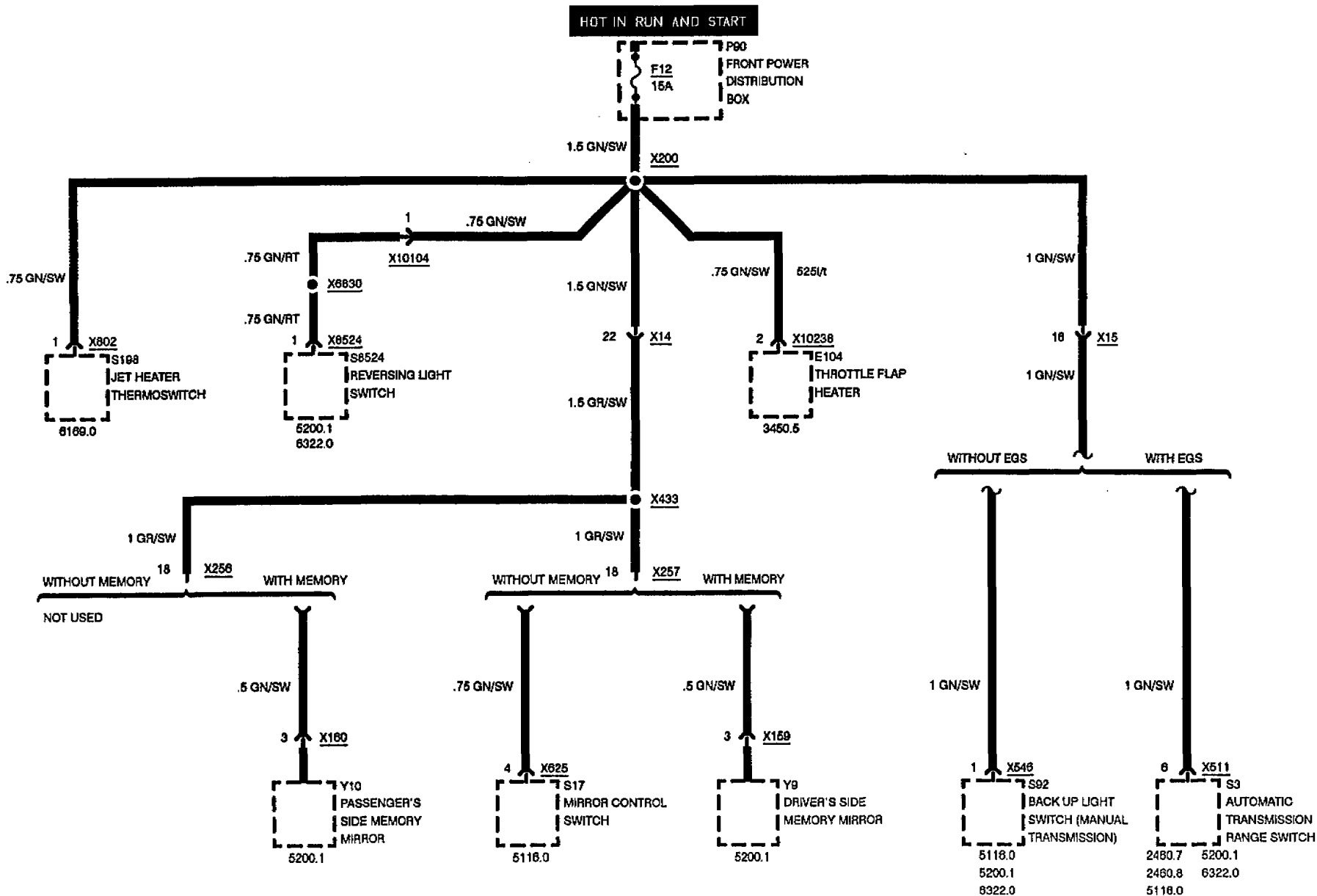
## FUSES 7, 9, 10, AND 11





# FUSE DETAILS

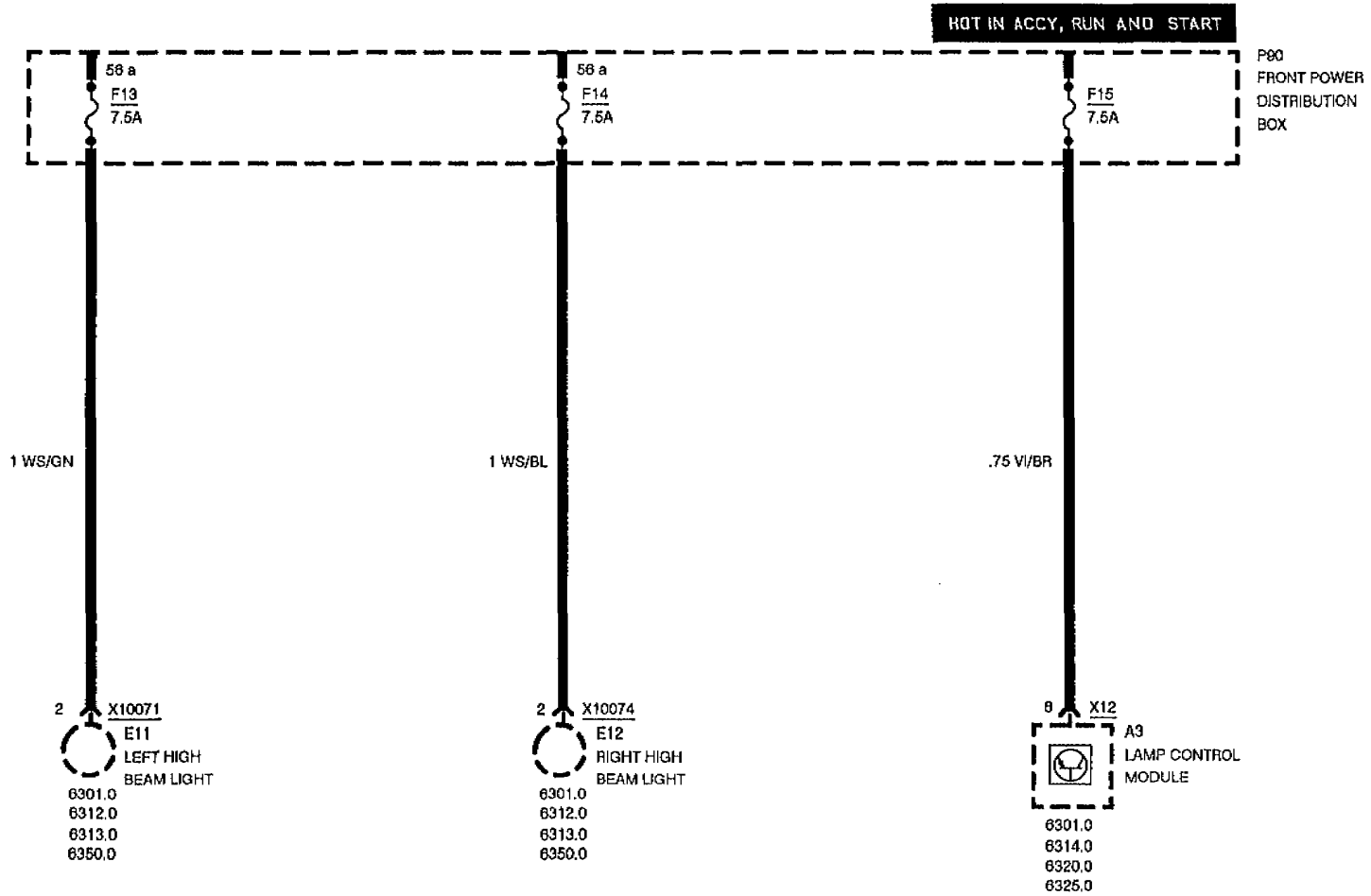
## FUSE 12





# FUSE DETAILS

## FUSES 13, 14, AND 15

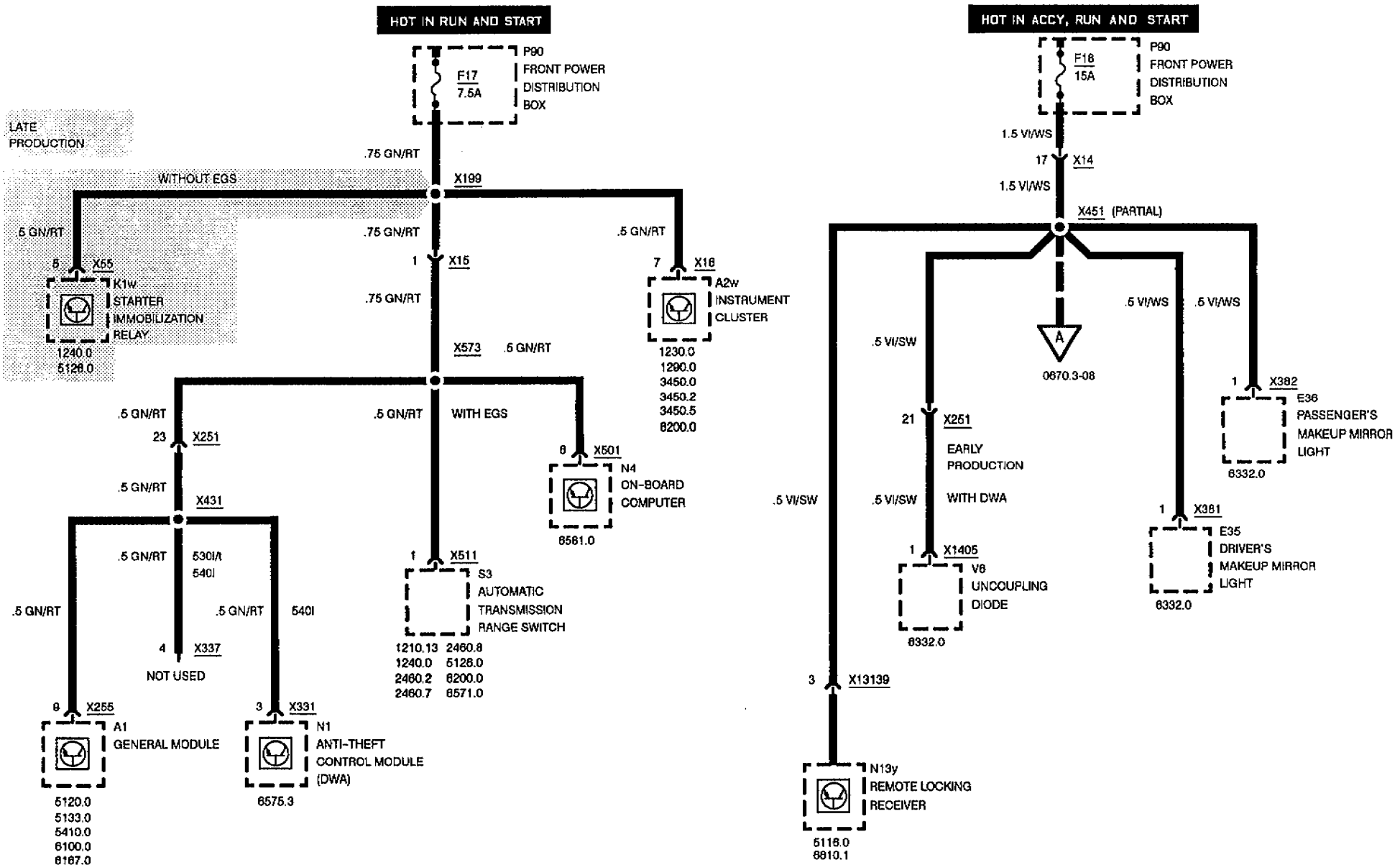






# FUSE DETAILS

## FUSES 17 AND 18

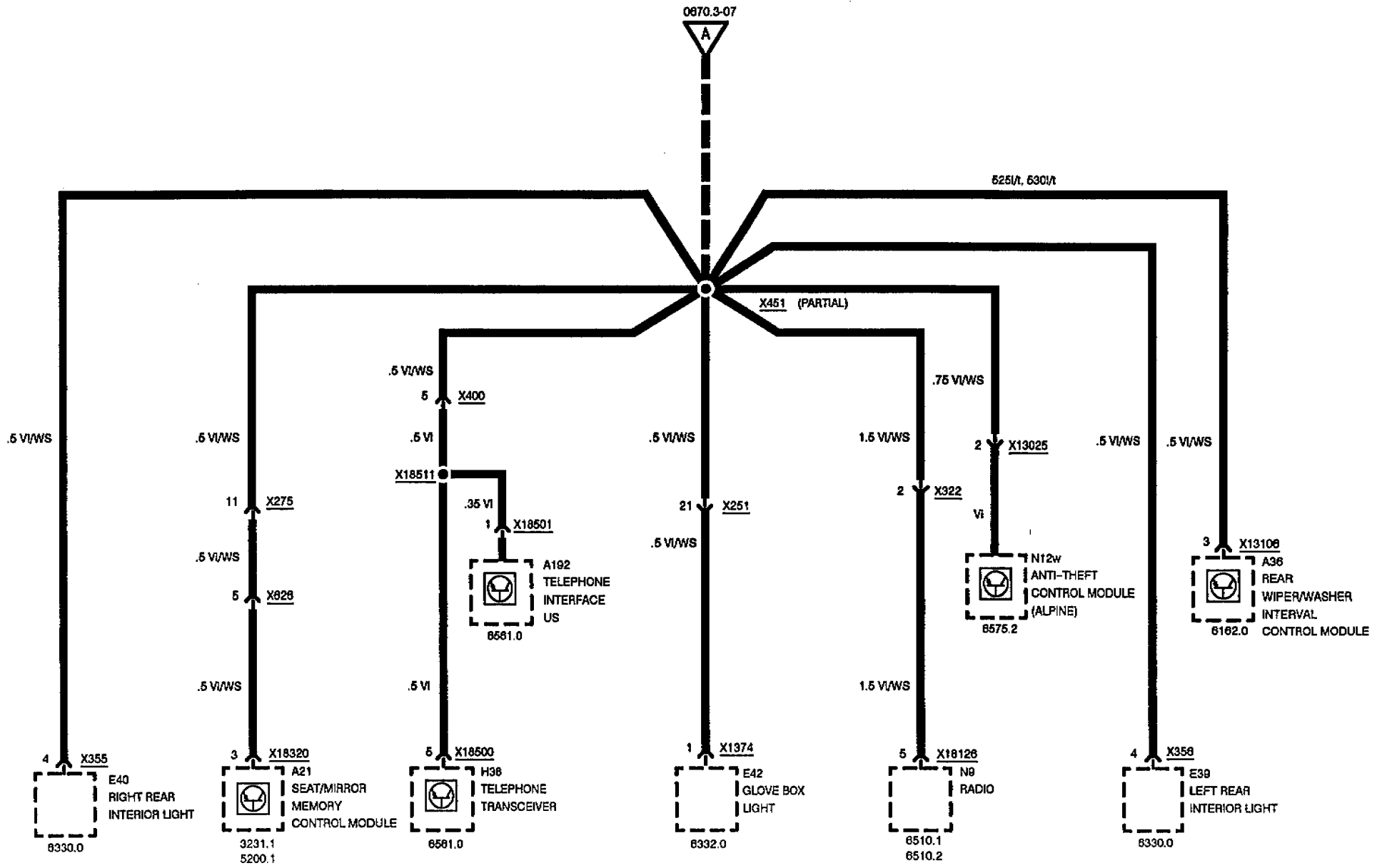






# FUSE DETAILS

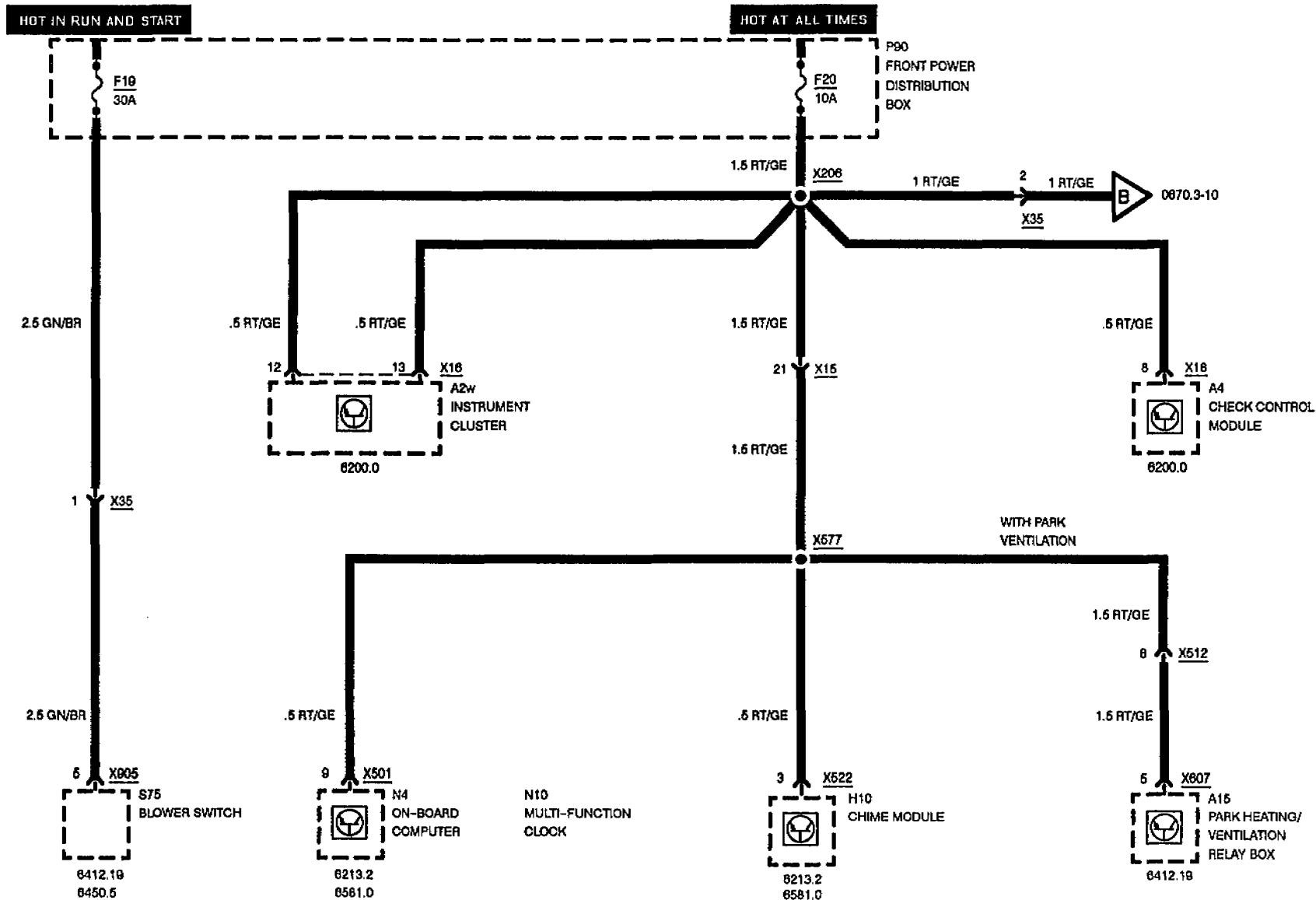
## FUSE 18





# FUSE DETAILS

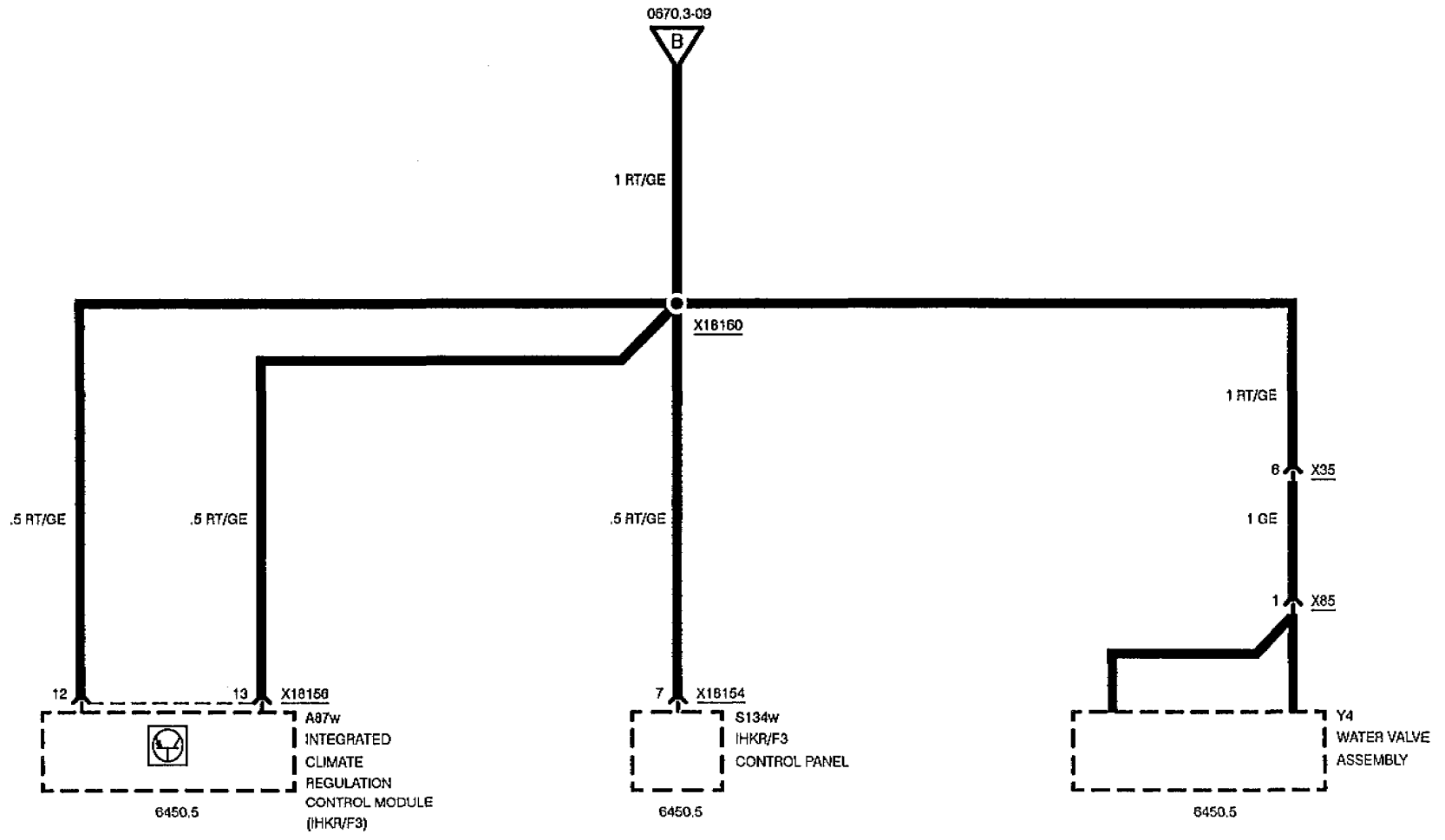
## FUSES 19 AND 20





# FUSE DETAILS

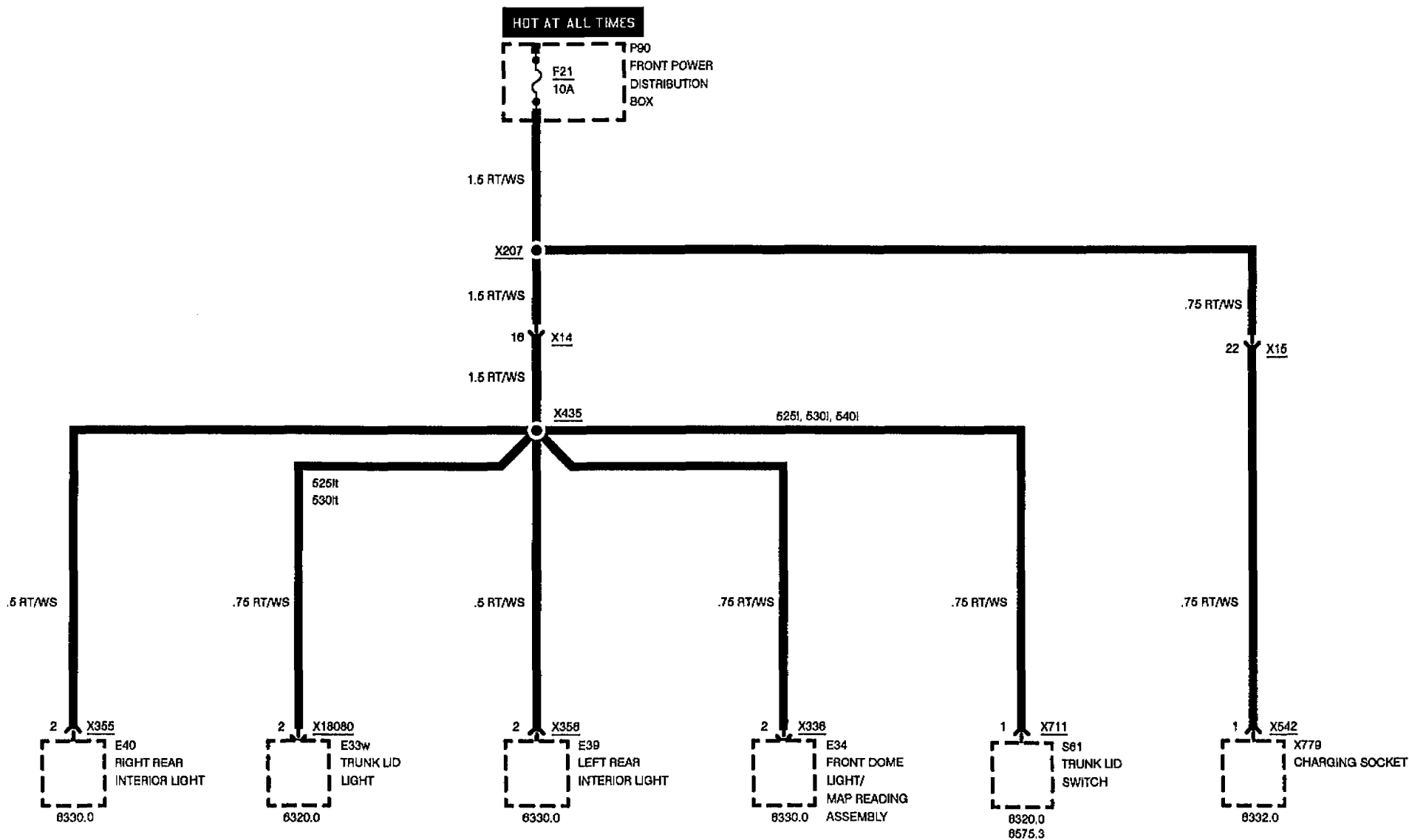
## FUSE 20





# FUSE DETAILS

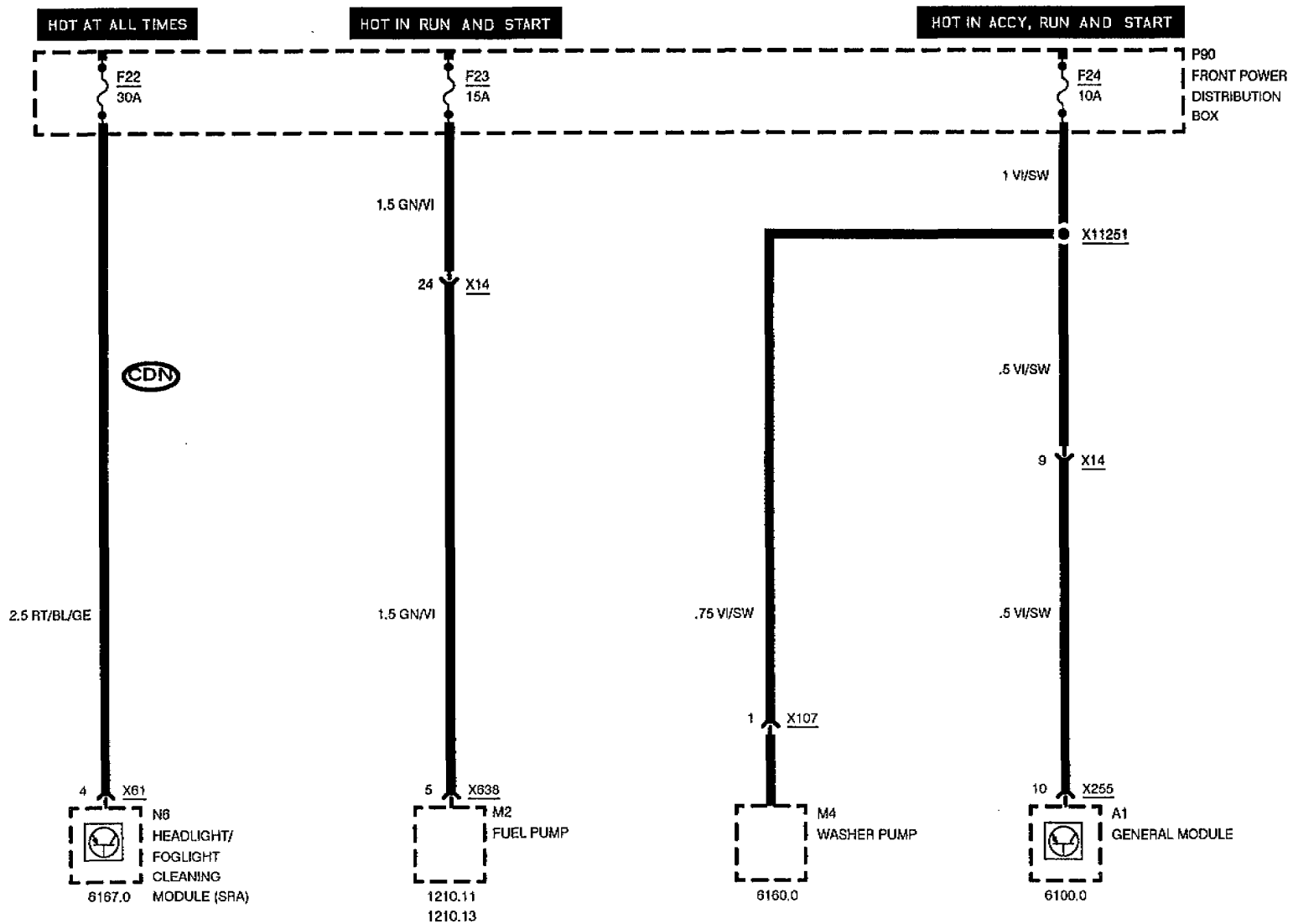
## FUSE 21





# FUSE DETAILS

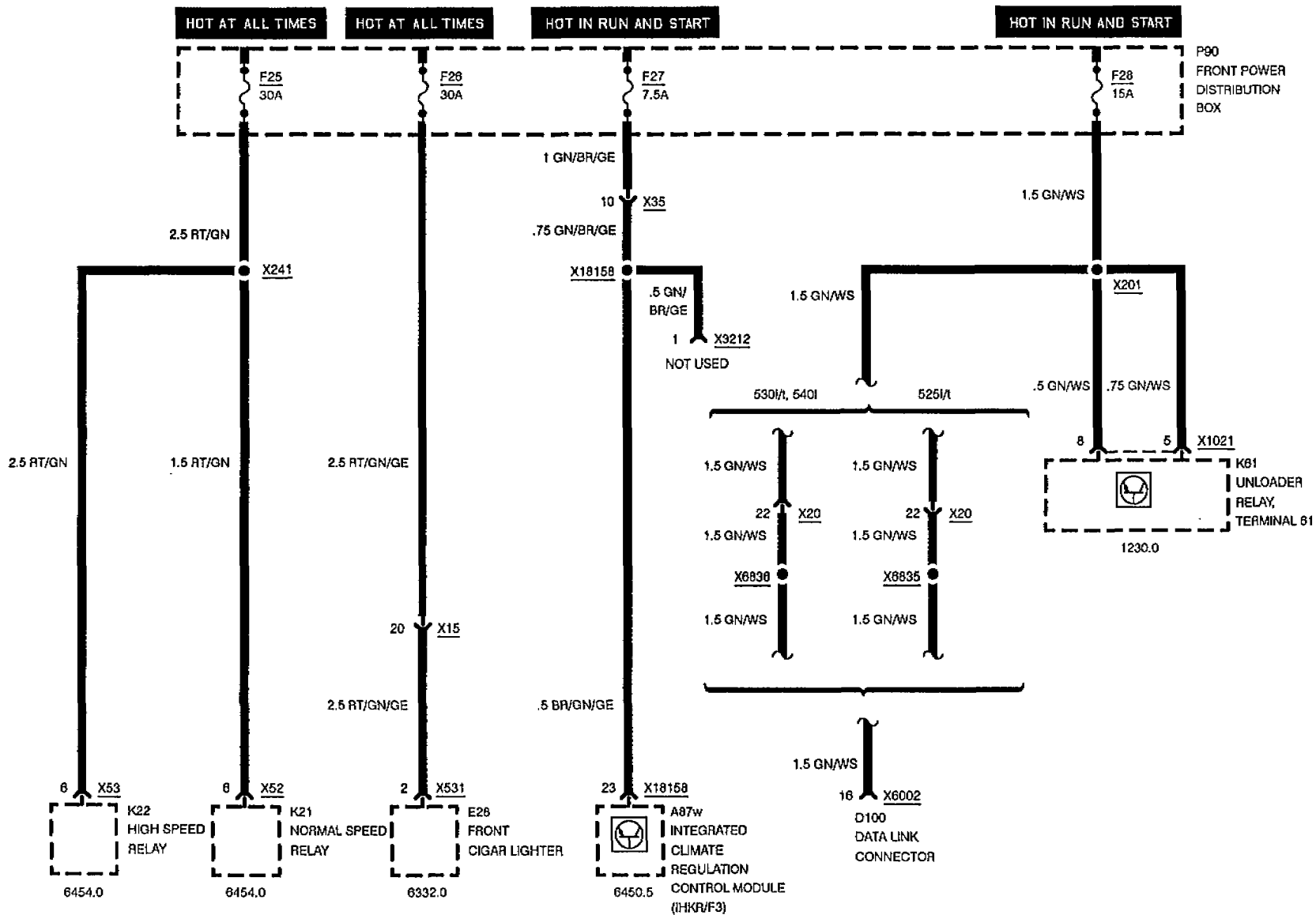
## FUSES 22, 23, AND 24





# FUSE DETAILS

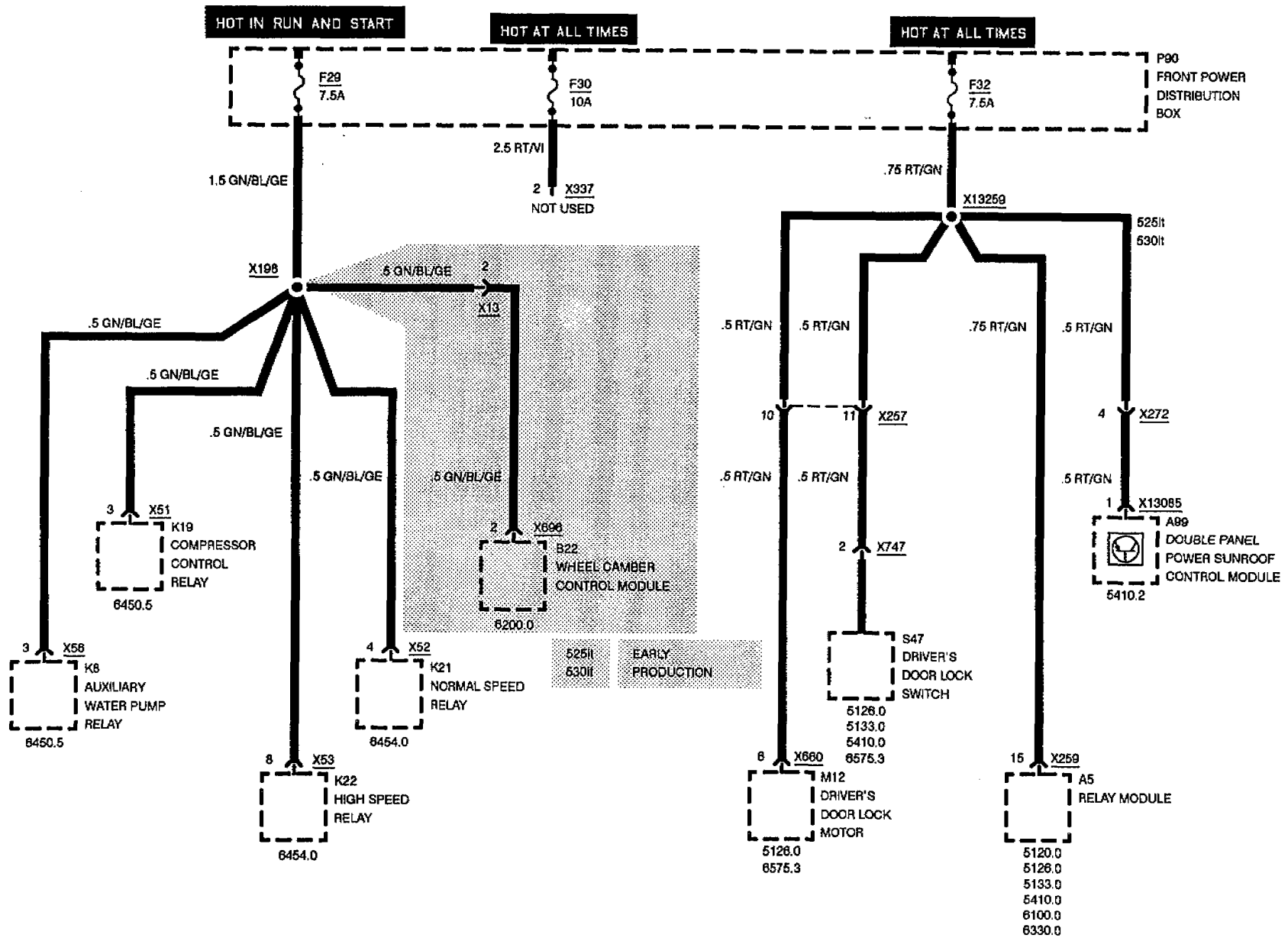
## FUSES 25, 26, 27, AND 28





# FUSE DETAILS

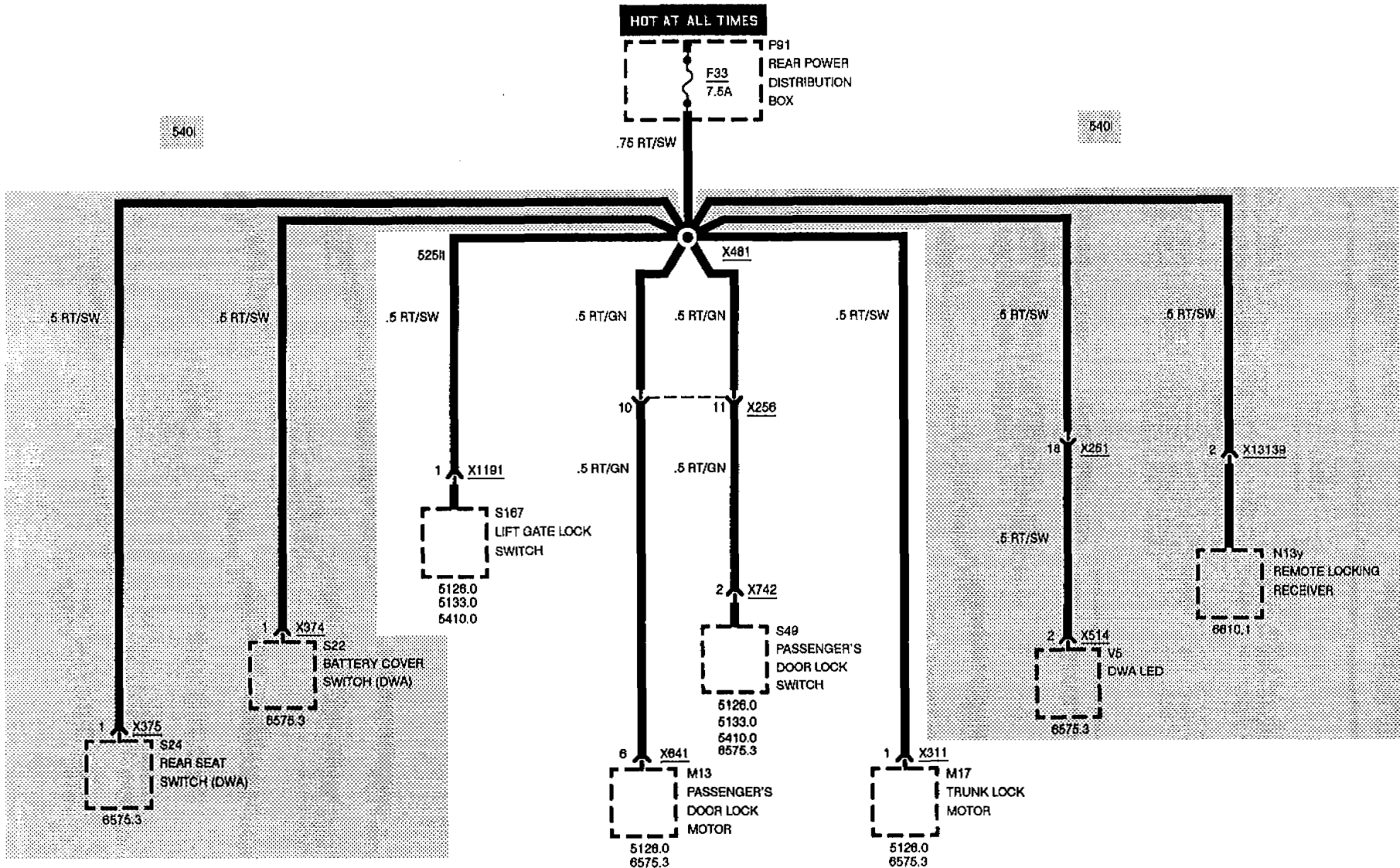
## FUSES 29, 30, AND 32





# FUSE DETAILS

## FUSE 33

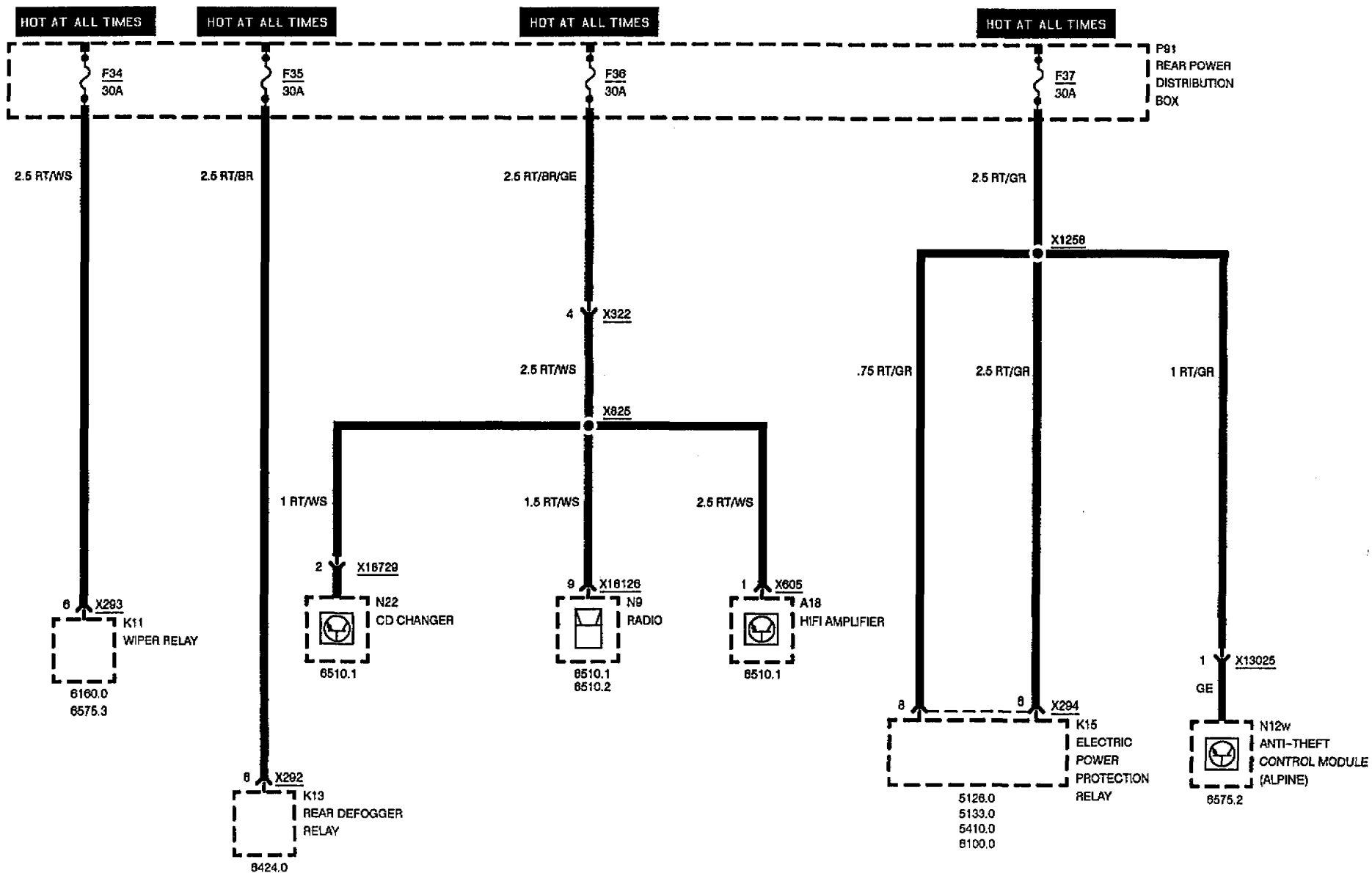






# FUSE DETAILS

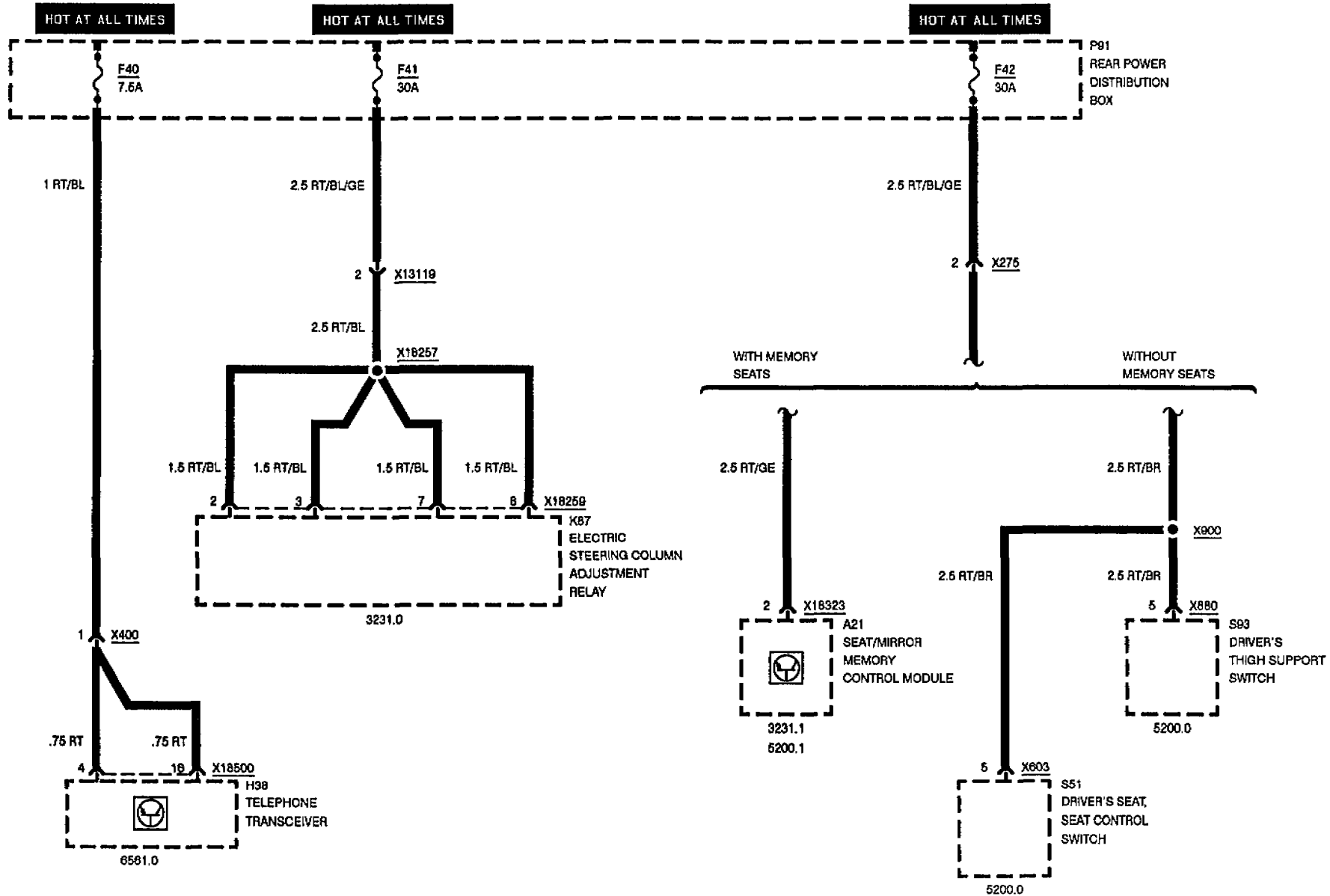
## FUSES 34, 35, 36, AND 37





# FUSE DETAILS

## FUSES 40, 41, AND 42





# FUSE DETAILS

## FUSES 43, 44, 47, 48, AND 49

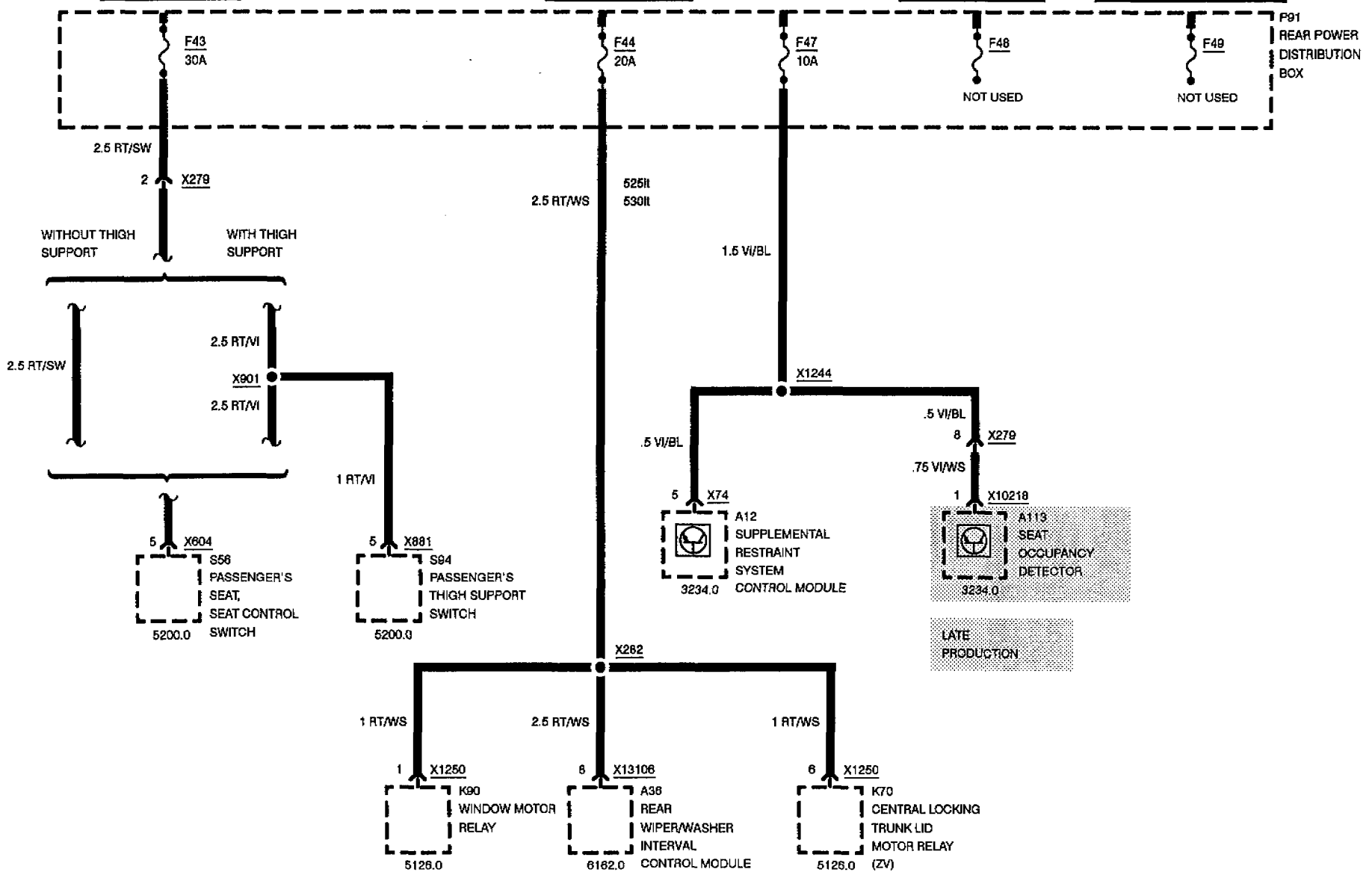
HOT IN ACCY, RUN AND START

HOT AT ALL TIMES

HOT AT ALL TIMES

HOT AT ALL TIMES

HOT IN RUN AND START

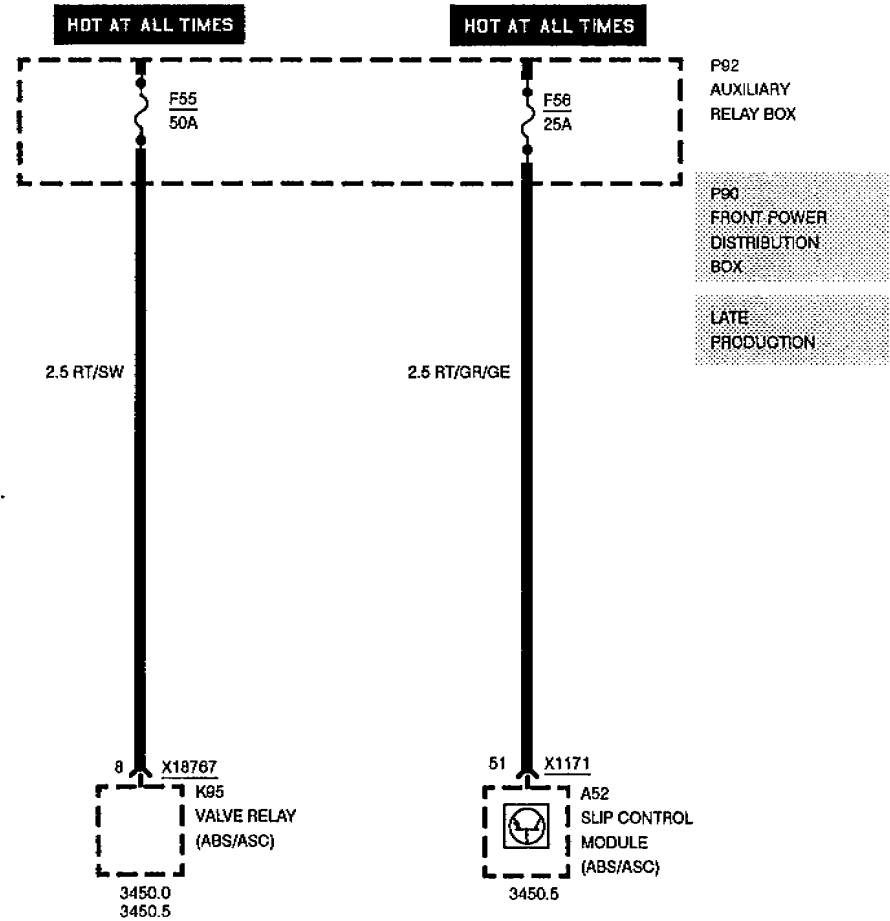
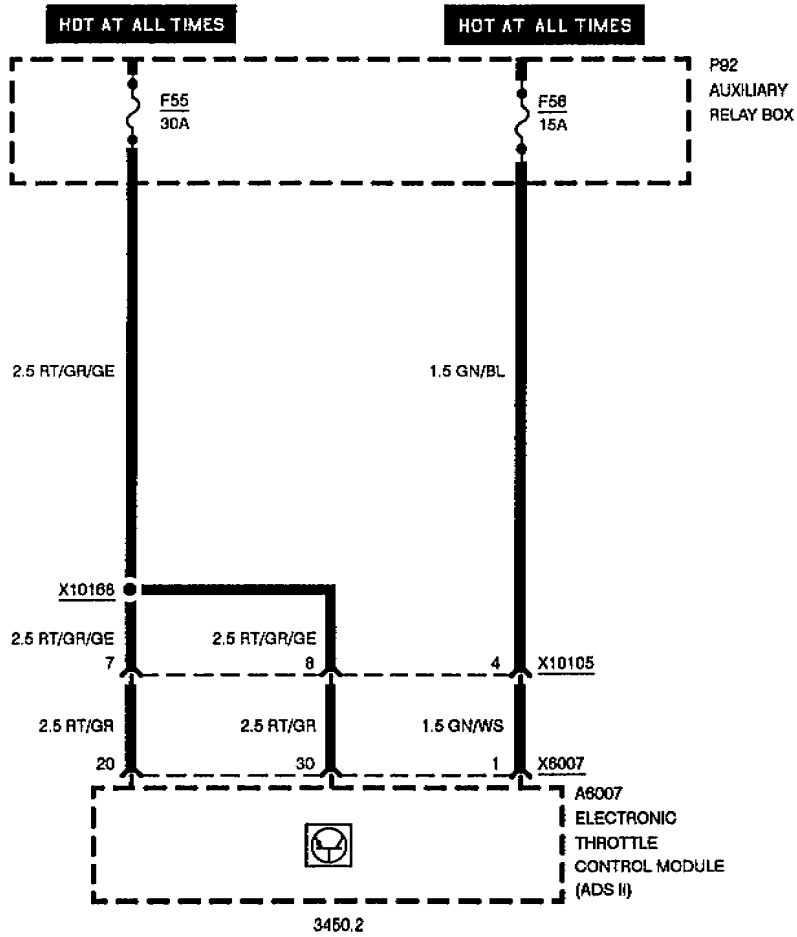




# FUSE DETAILS

## FUSES 55 AND 56

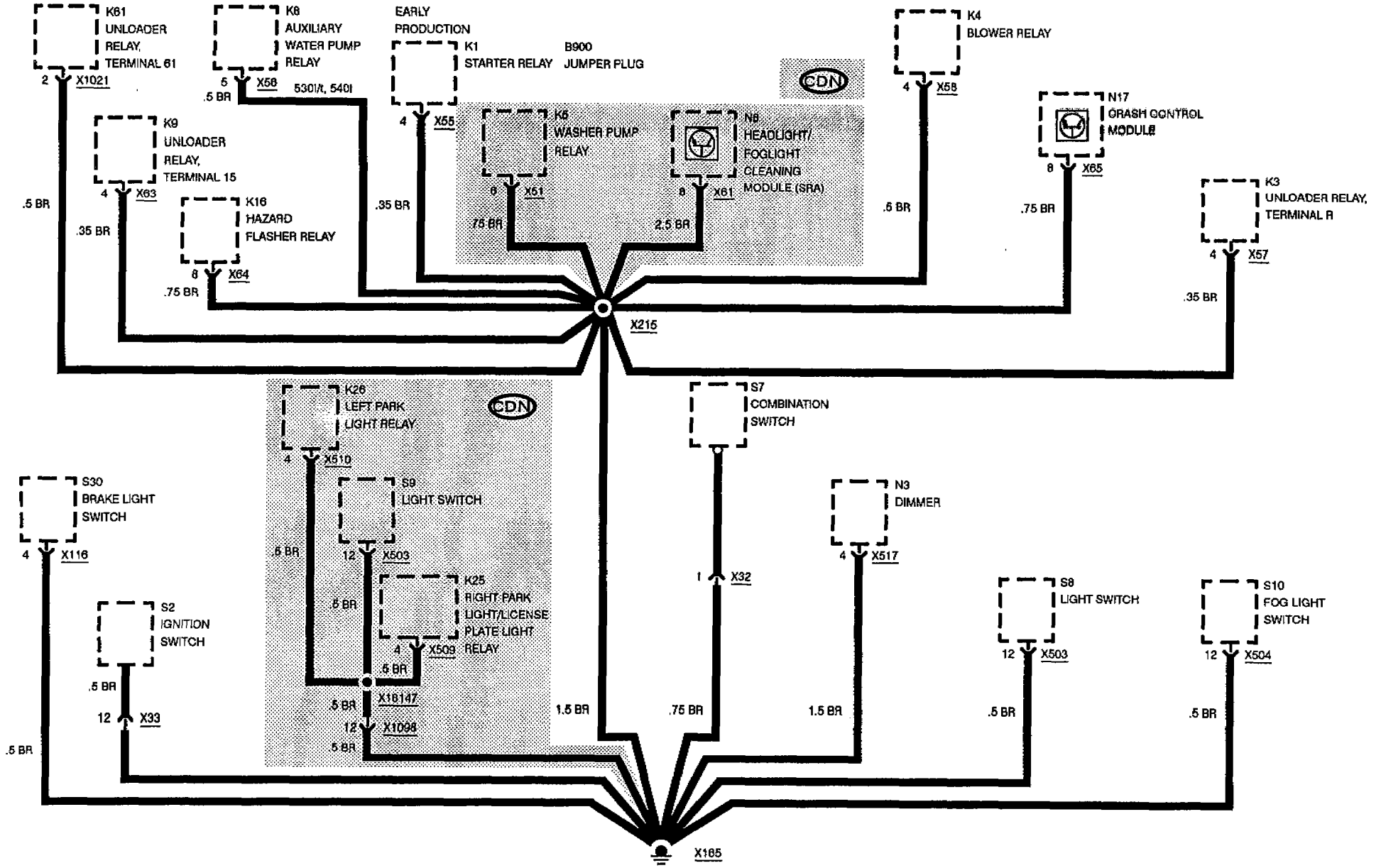
SOP 02/93 530/L, 540I





# GROUND DISTRIBUTION

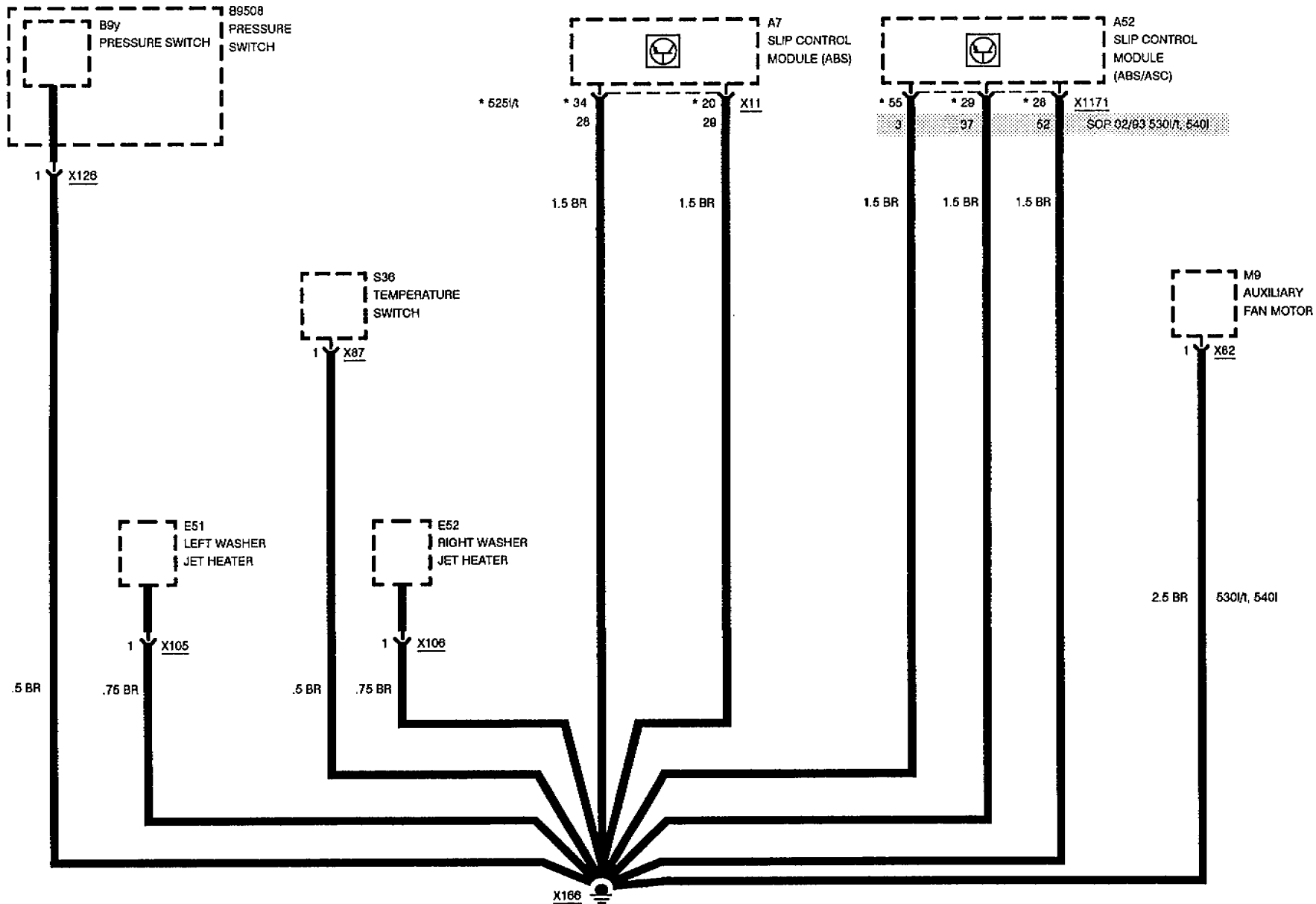
## GROUND X165





# GROUND DISTRIBUTION

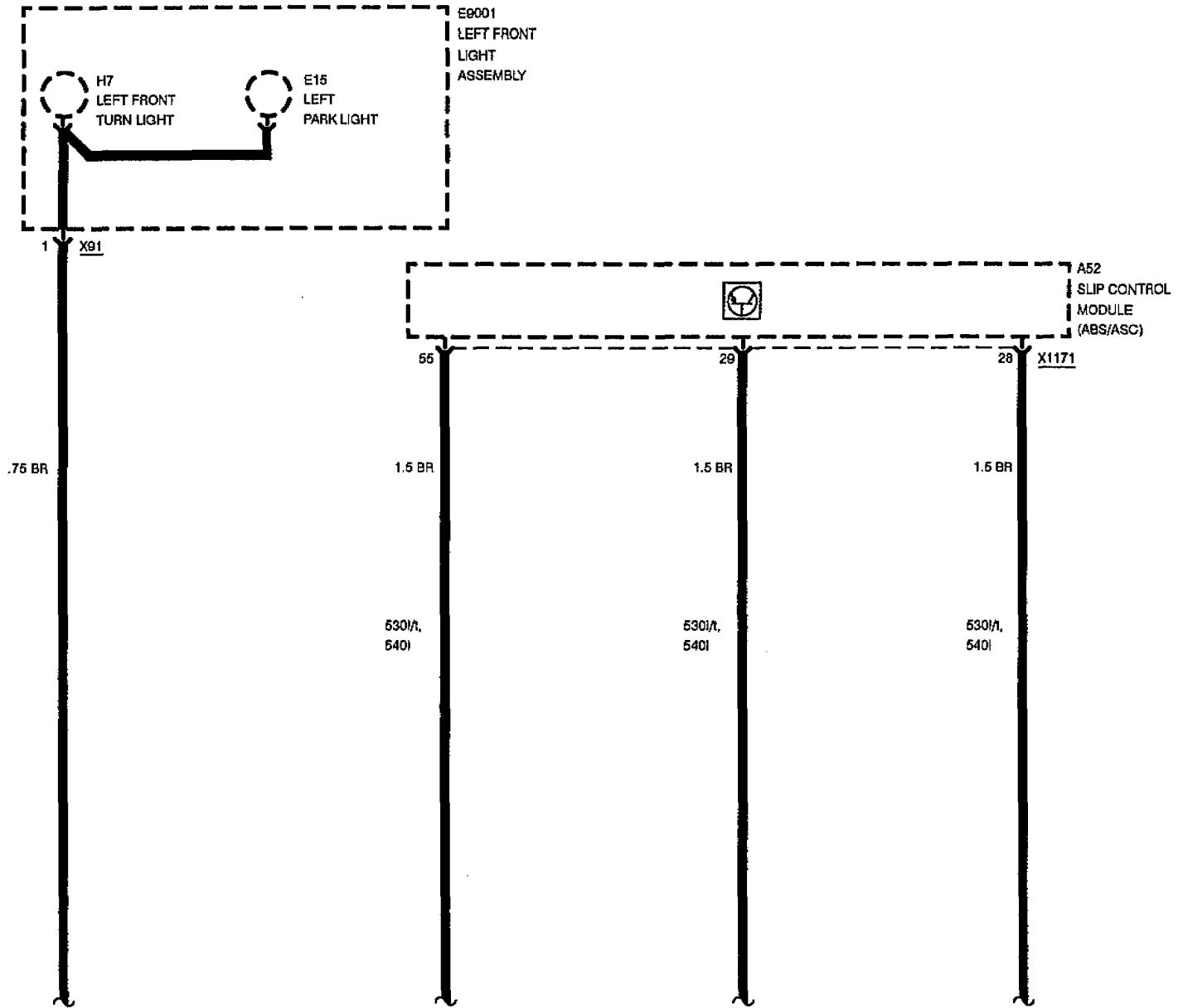
## GROUND X166

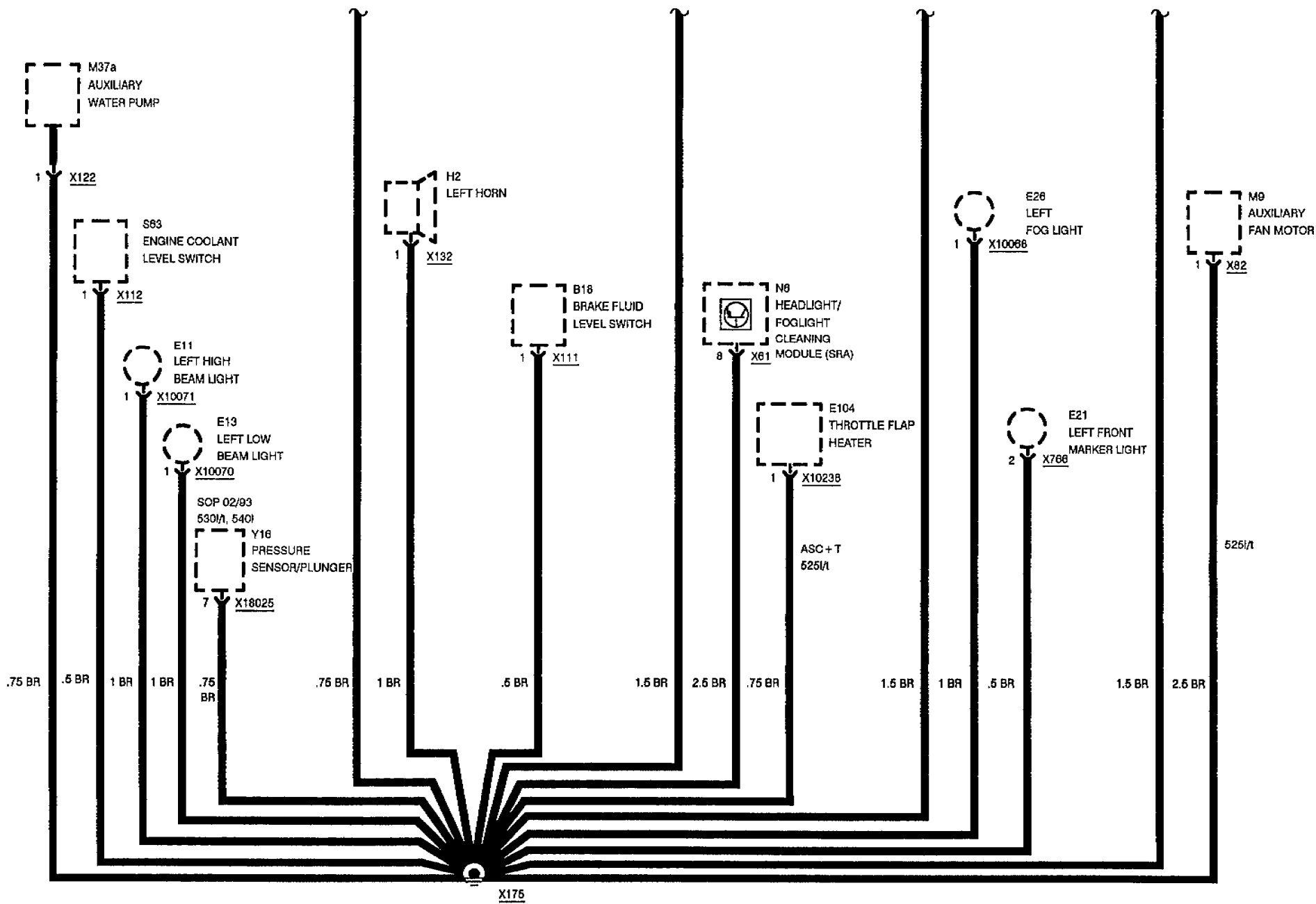




# GROUND DISTRIBUTION

## GROUND X175



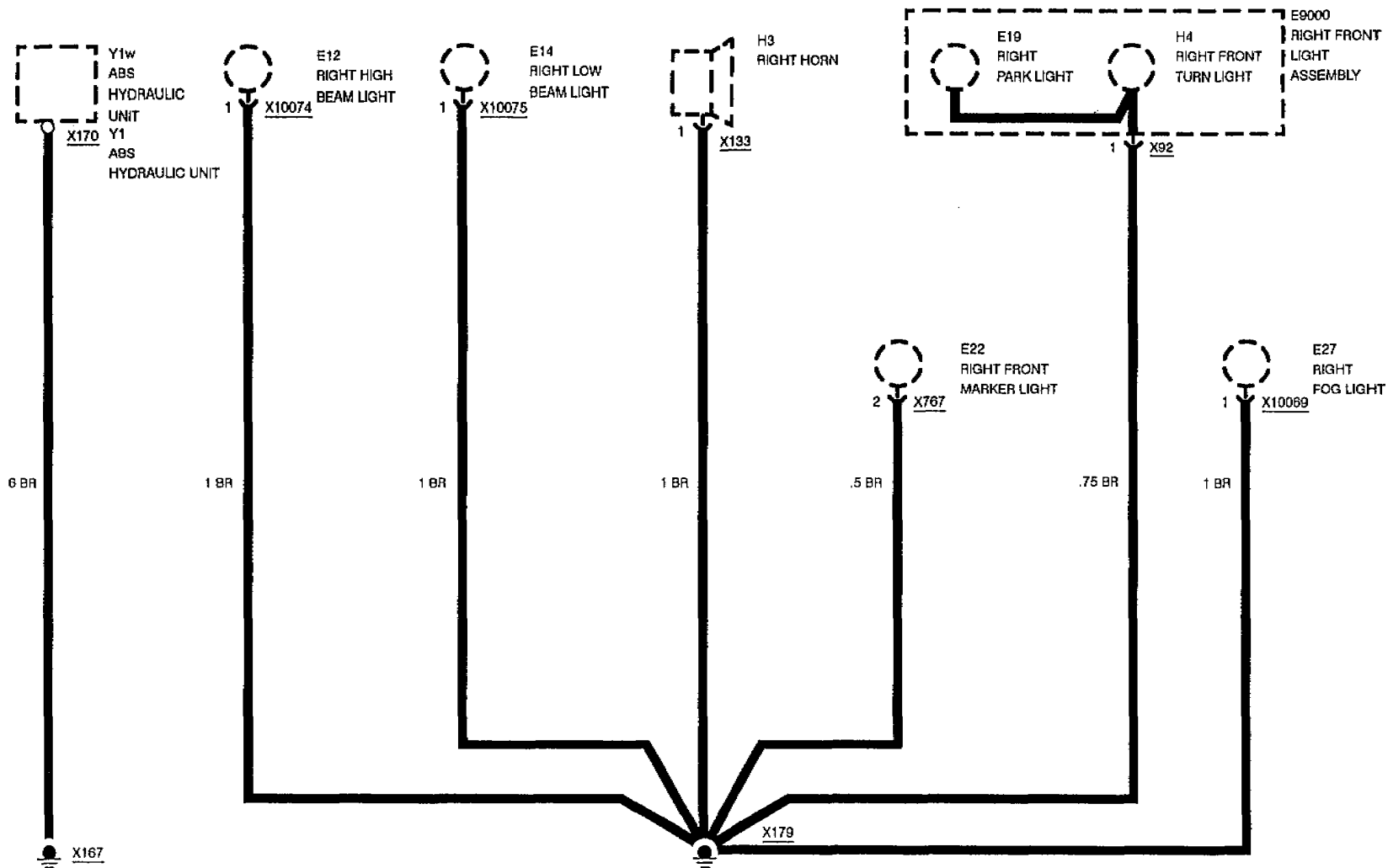






# GROUND DISTRIBUTION

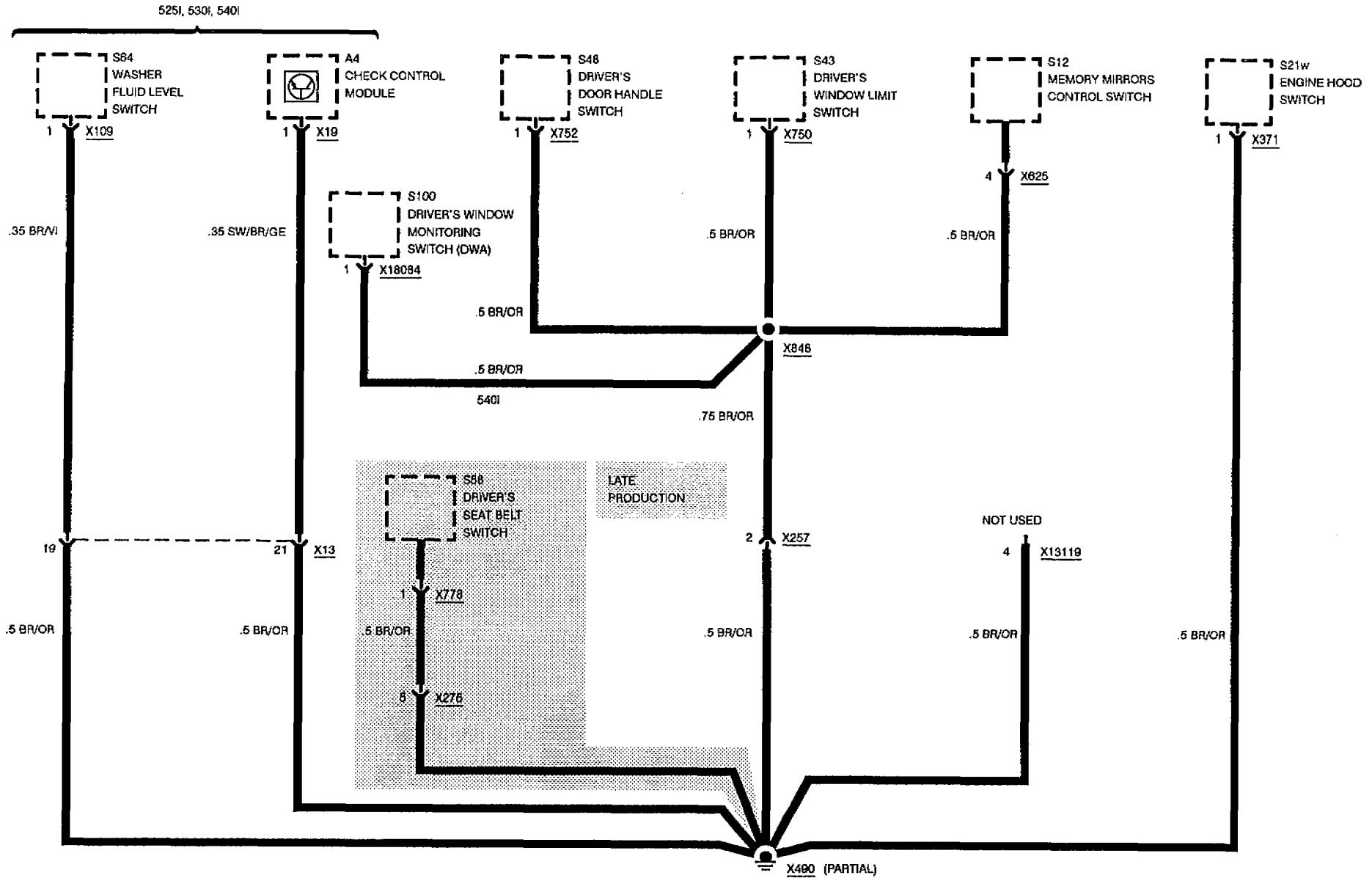
## GROUNDS X167 AND X179





# GROUND DISTRIBUTION

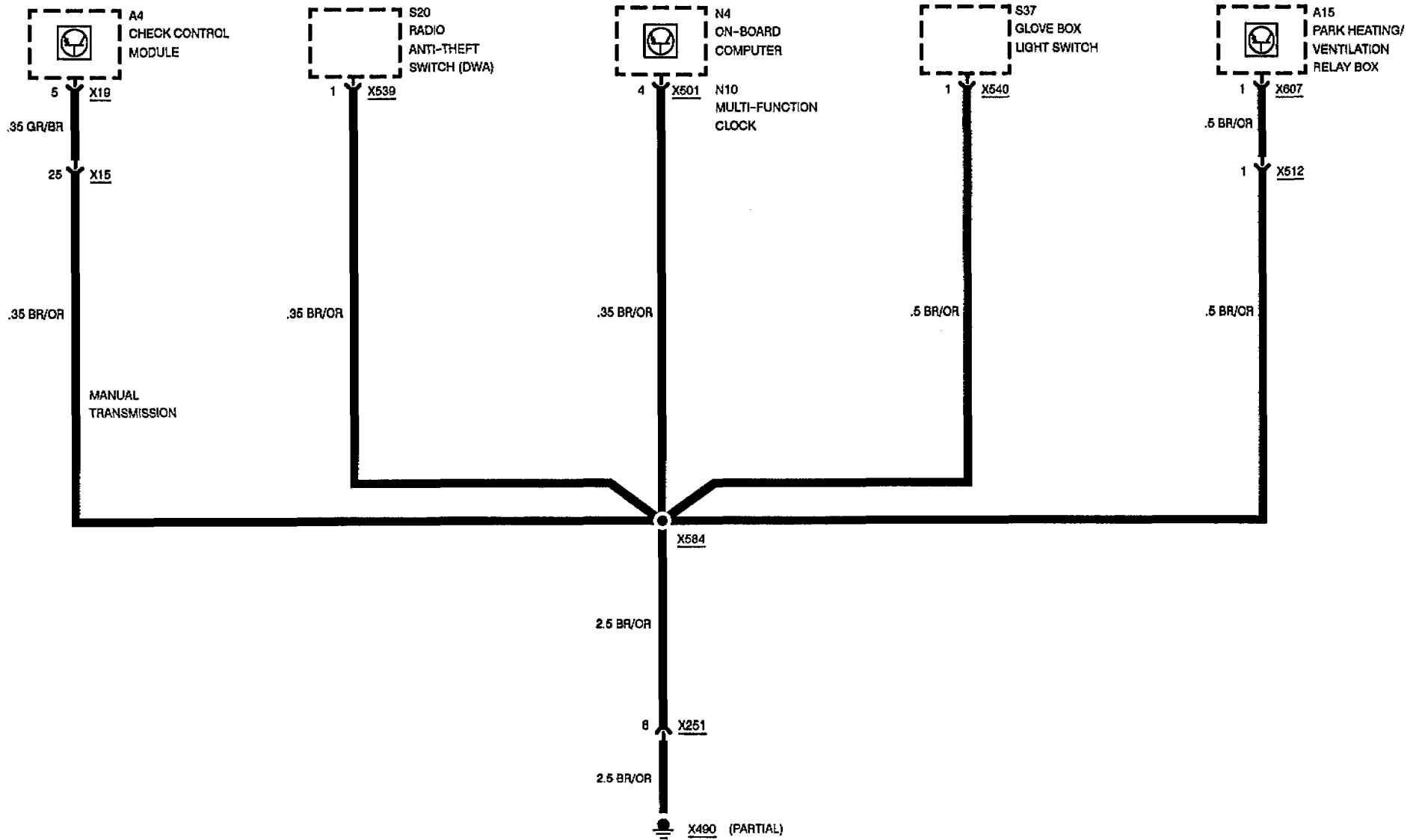
## GROUND X490





# GROUND DISTRIBUTION

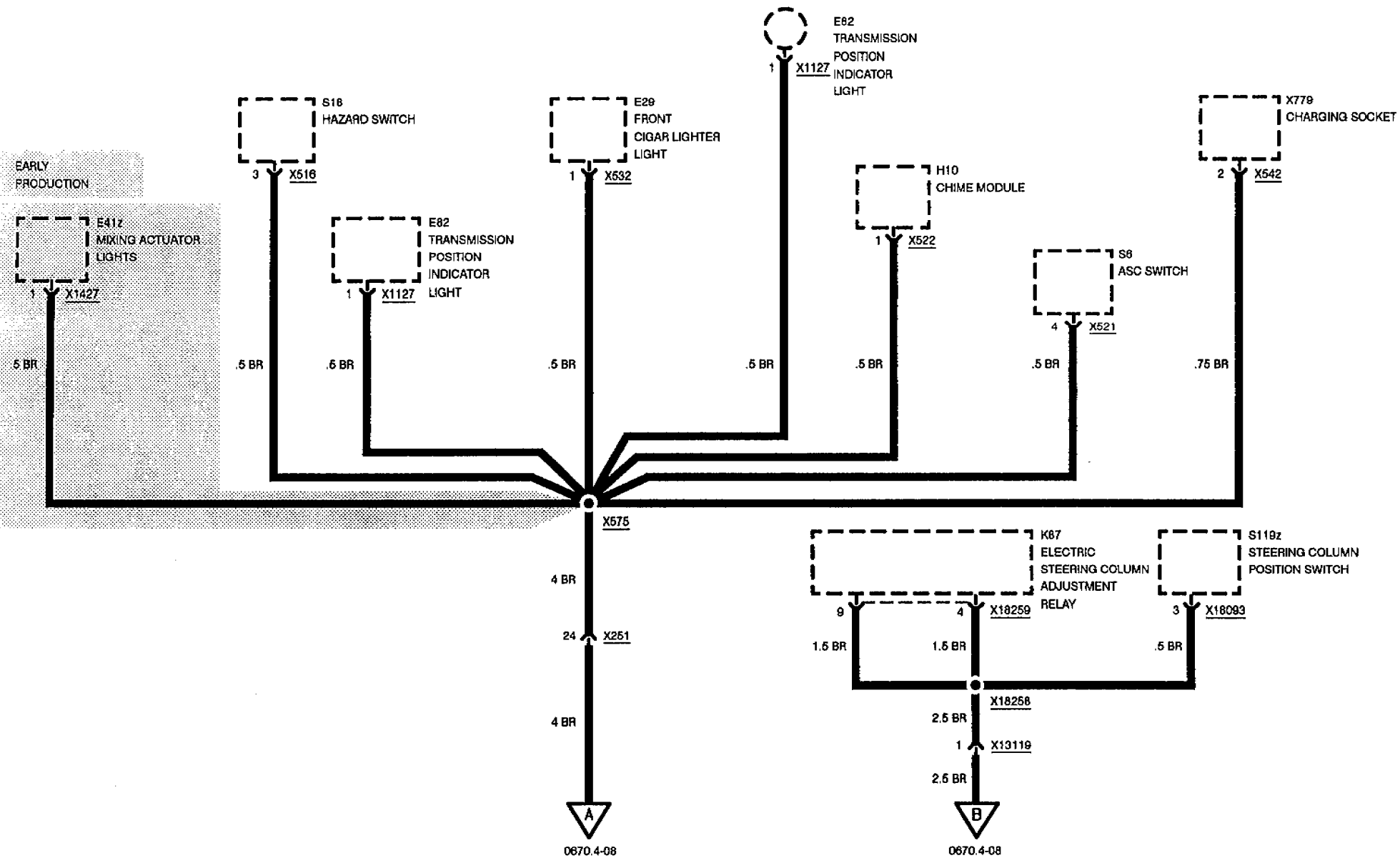
## GROUND X490





# GROUND DISTRIBUTION

## GROUND X491



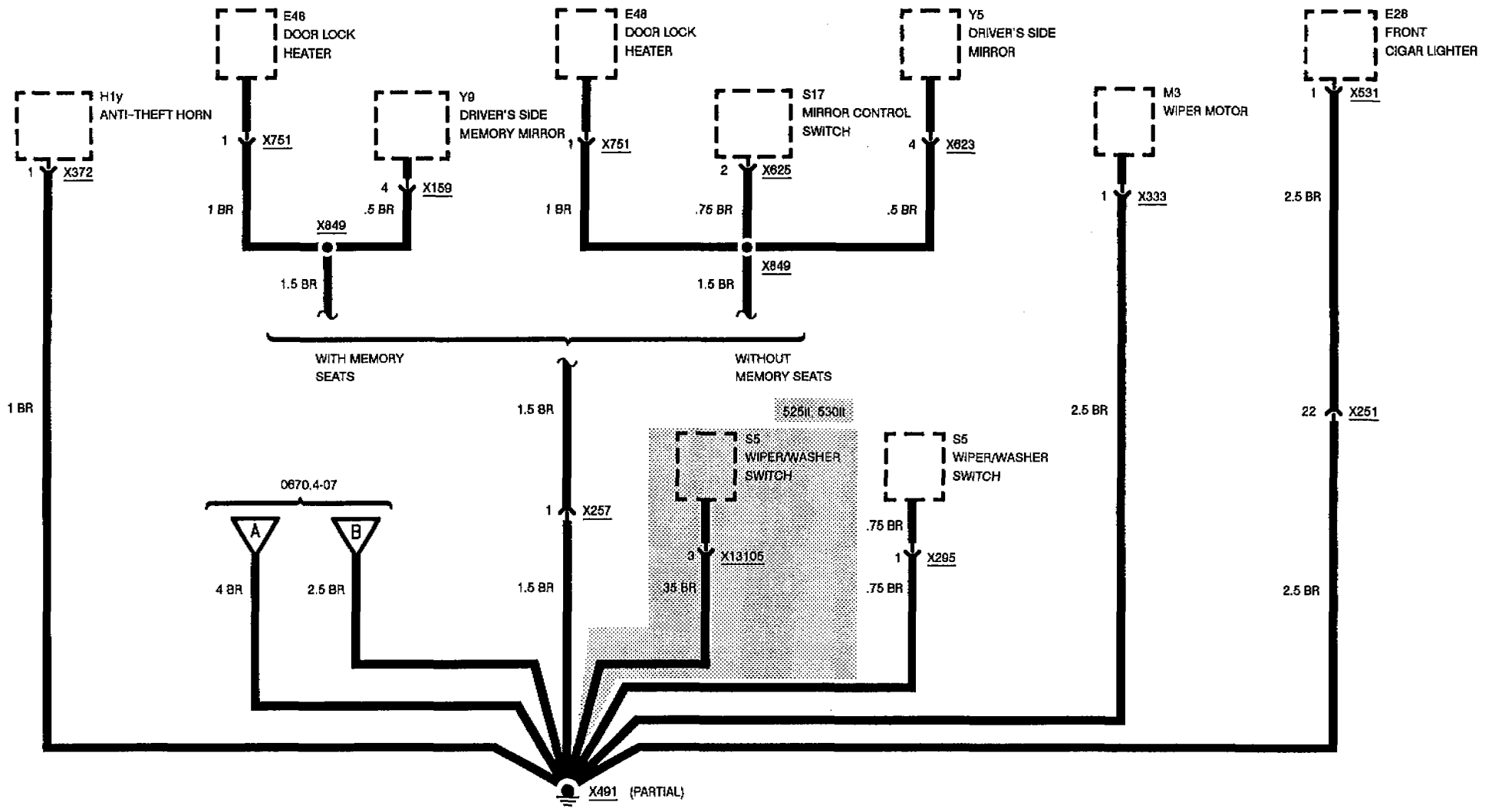
0670.4-08

0670.4-08



# GROUND DISTRIBUTION

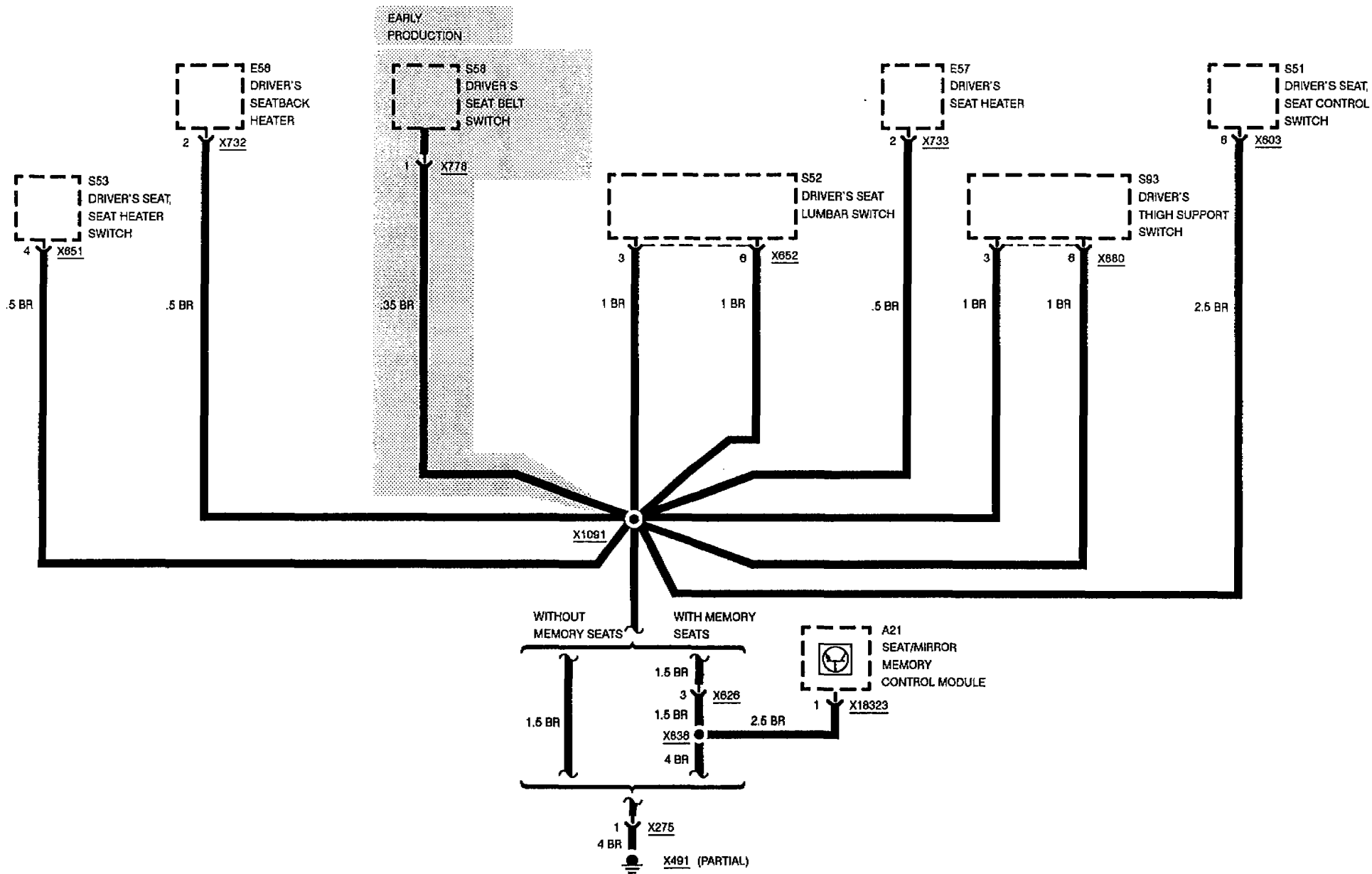
## GROUND X491





# GROUND DISTRIBUTION

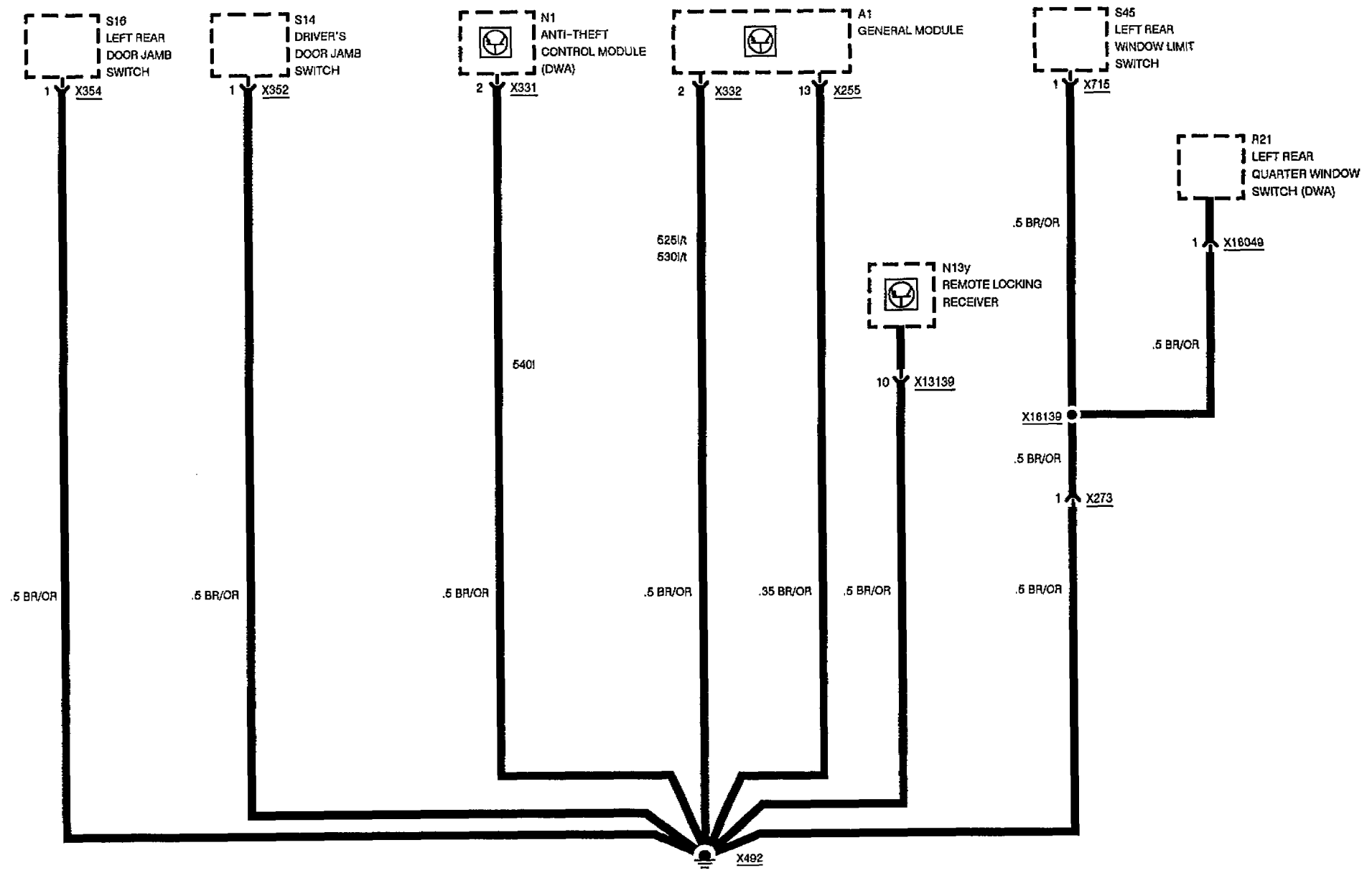
## GROUND X491





# GROUND DISTRIBUTION

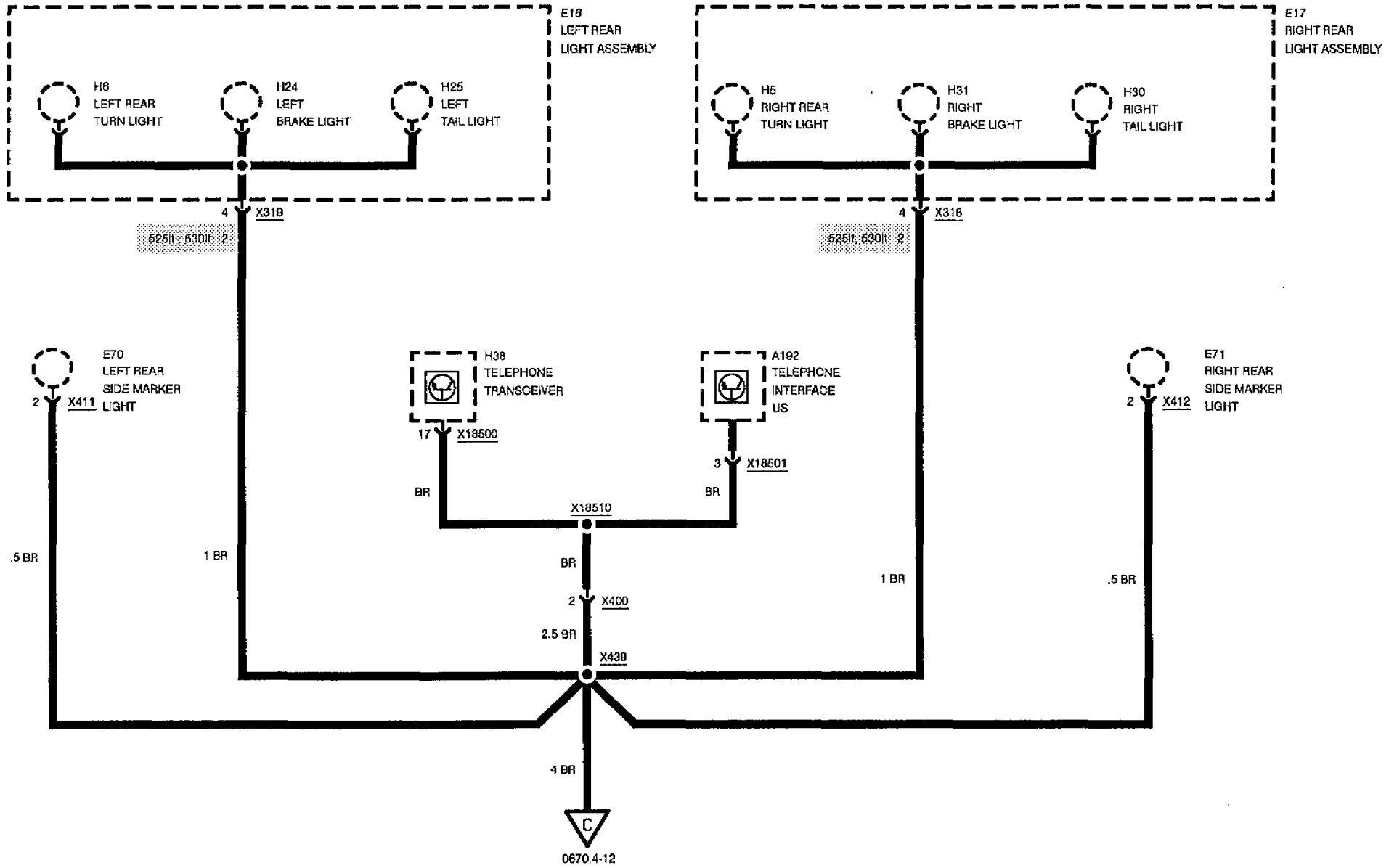
## GROUND X492





# GROUND DISTRIBUTION

## GROUND X493

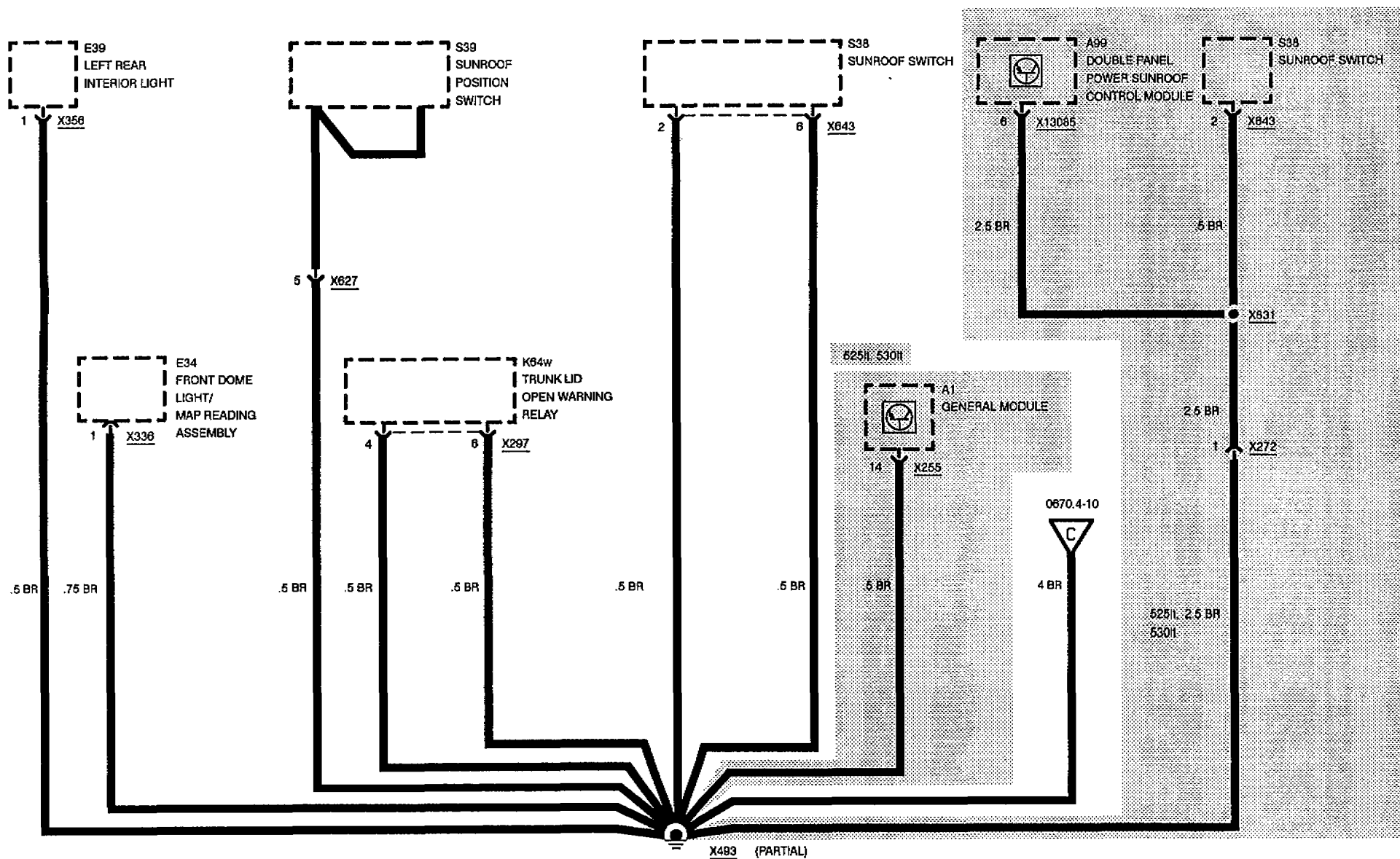






# GROUND DISTRIBUTION

## GROUND X493

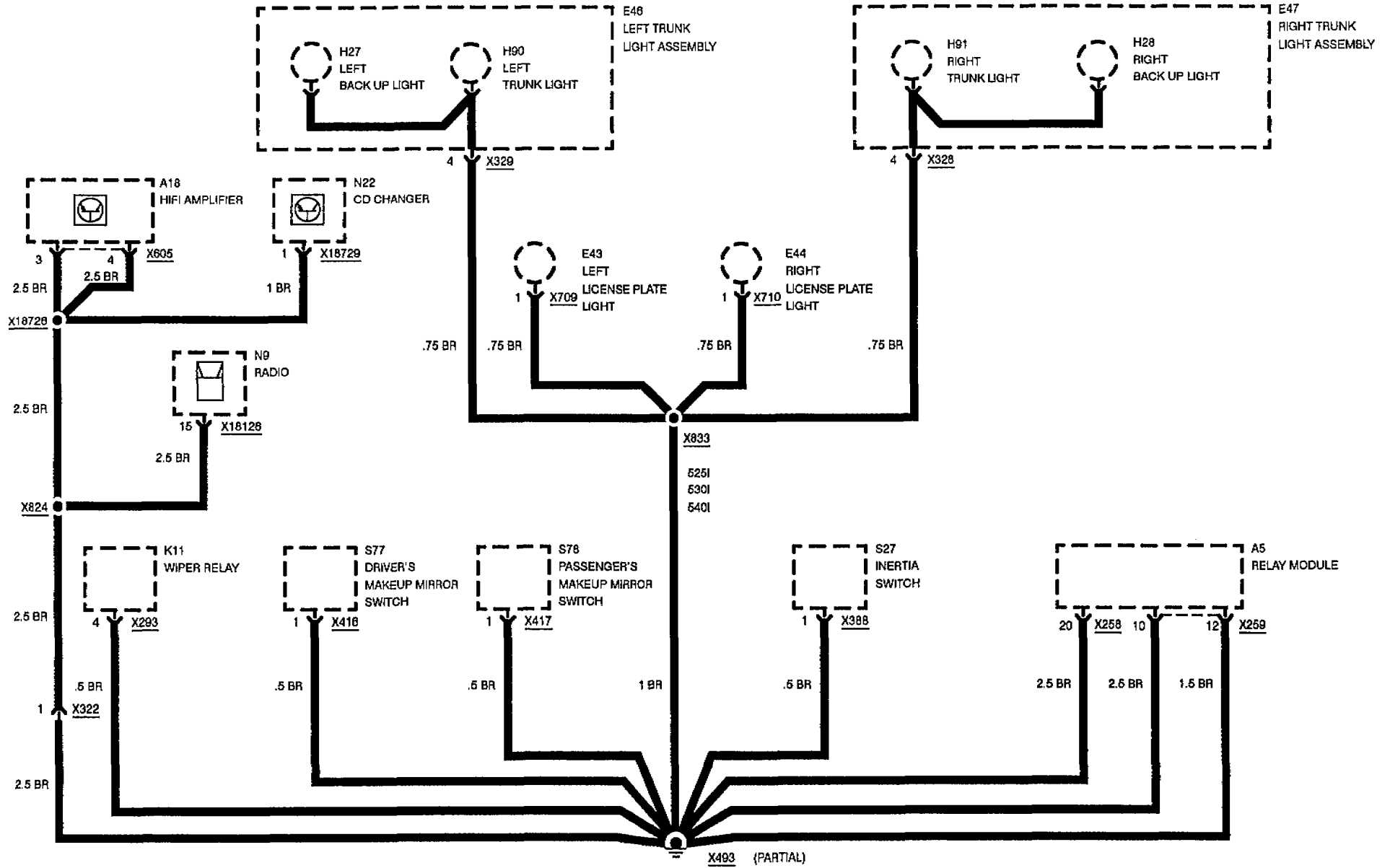


X493 (PARTIAL)



# GROUND DISTRIBUTION

## GROUND X493

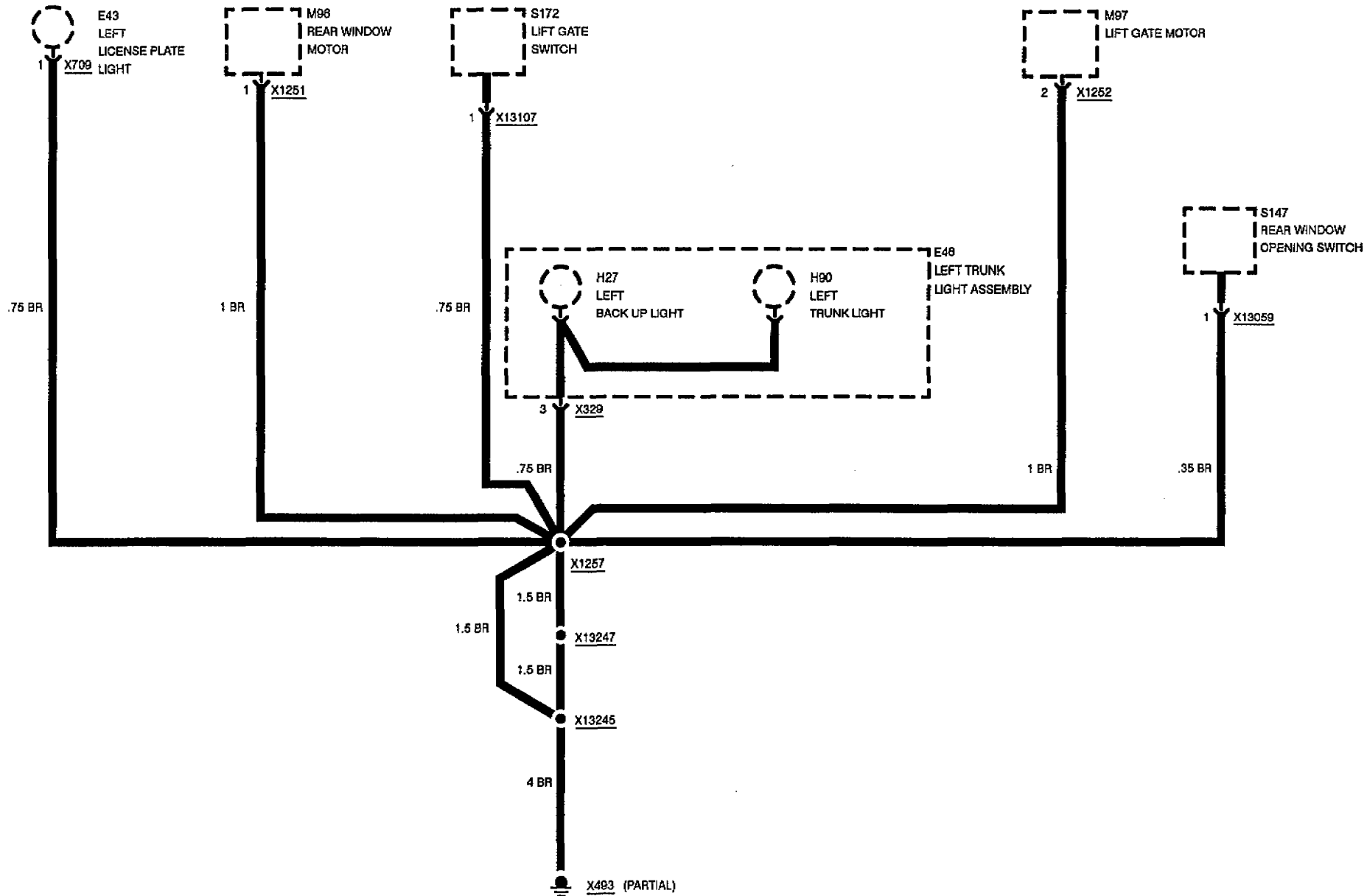




# GROUND DISTRIBUTION

525it, 530it

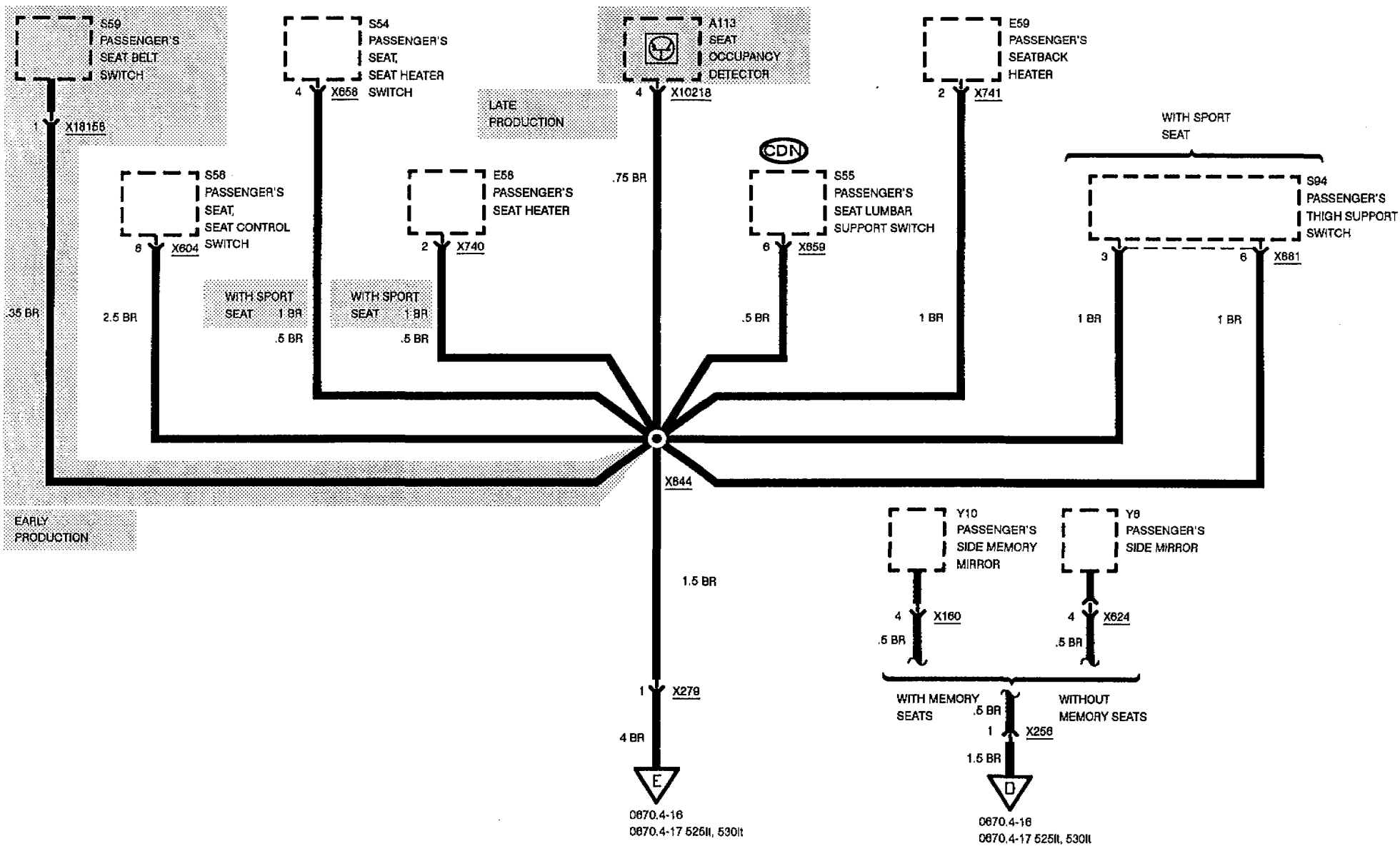
## GROUND X493





# GROUND DISTRIBUTION

## GROUND X495

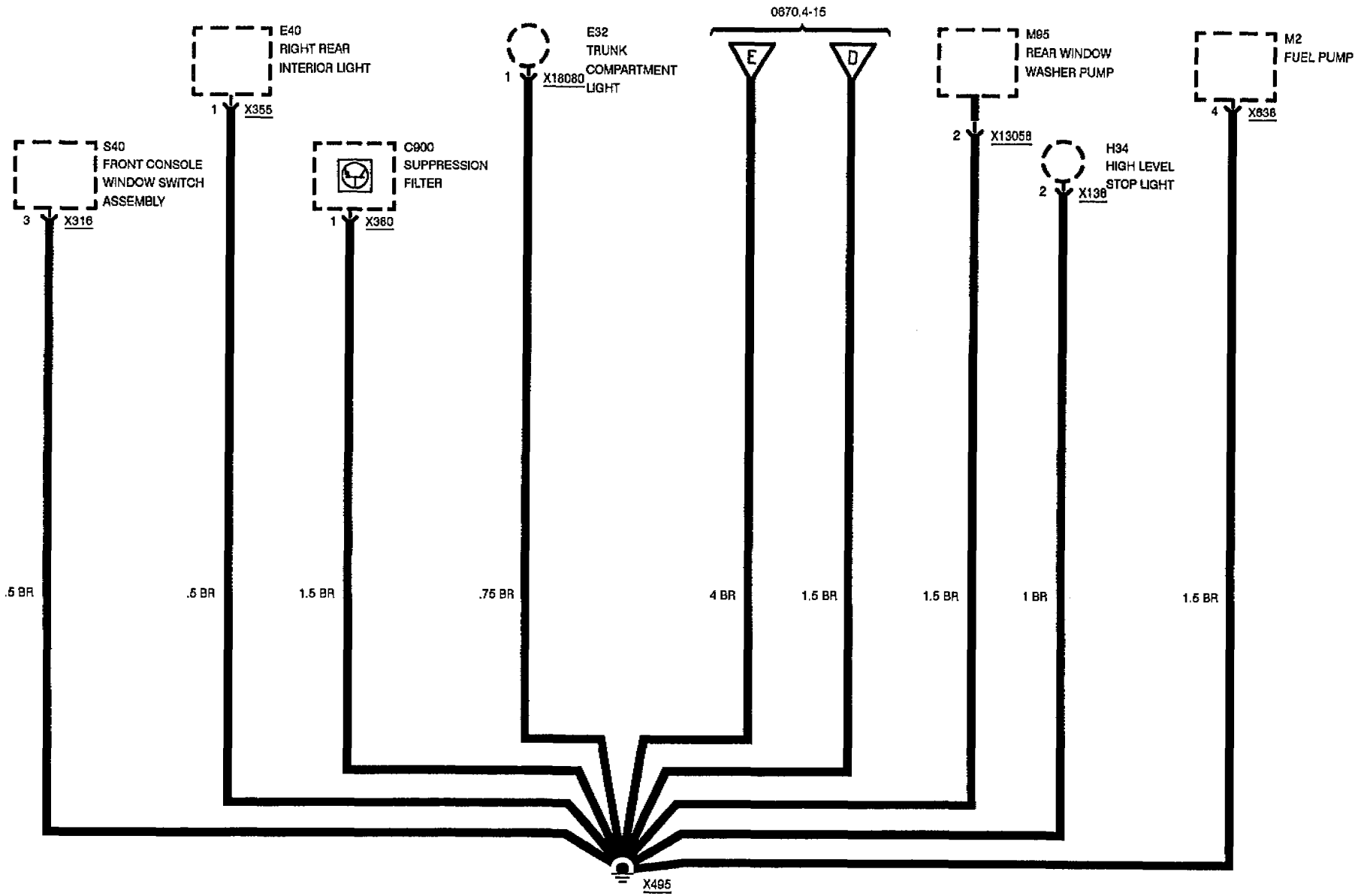




# GROUND DISTRIBUTION

525i, 530i, 540i

## GROUND X495

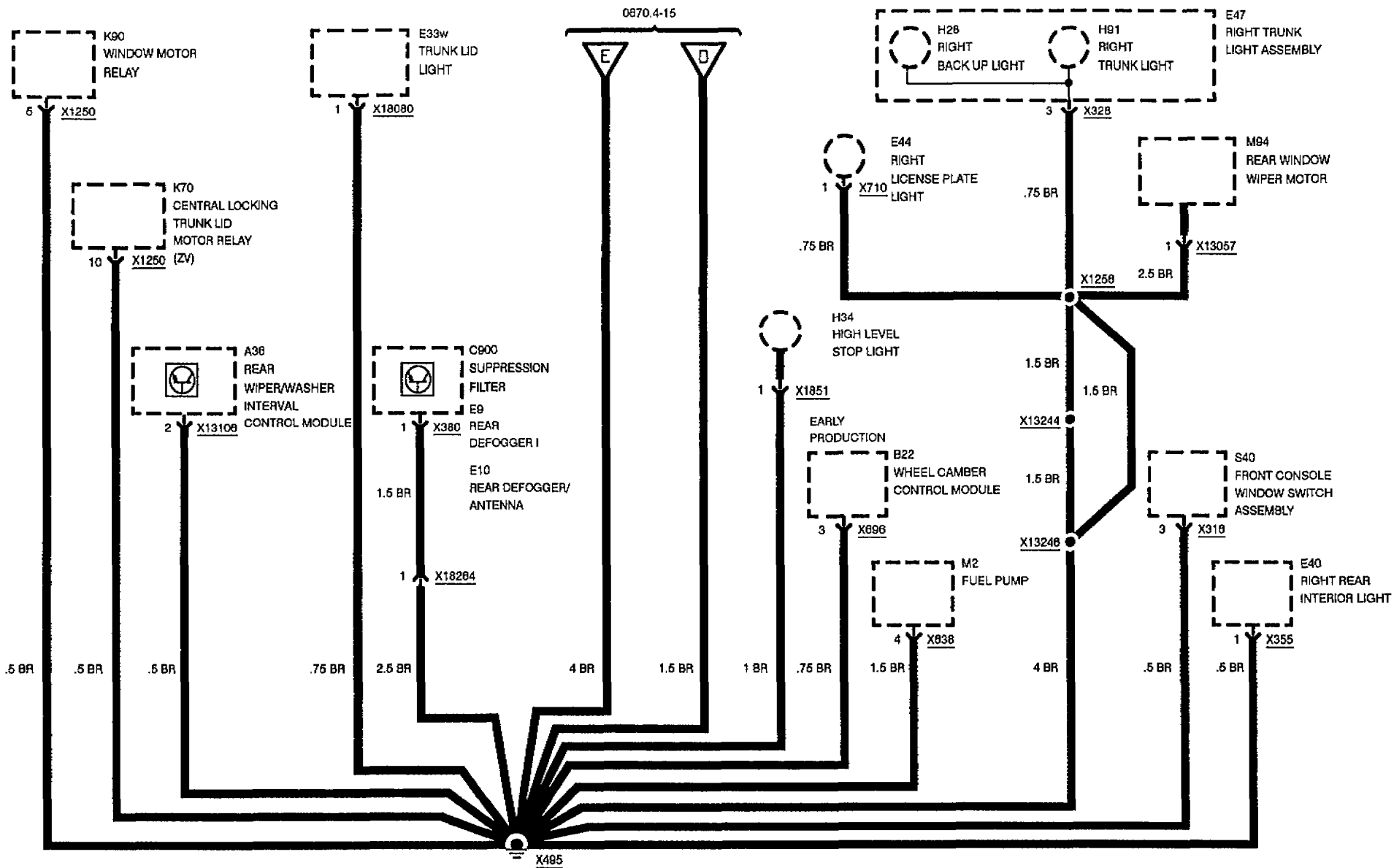




# GROUND DISTRIBUTION

## GROUND X495

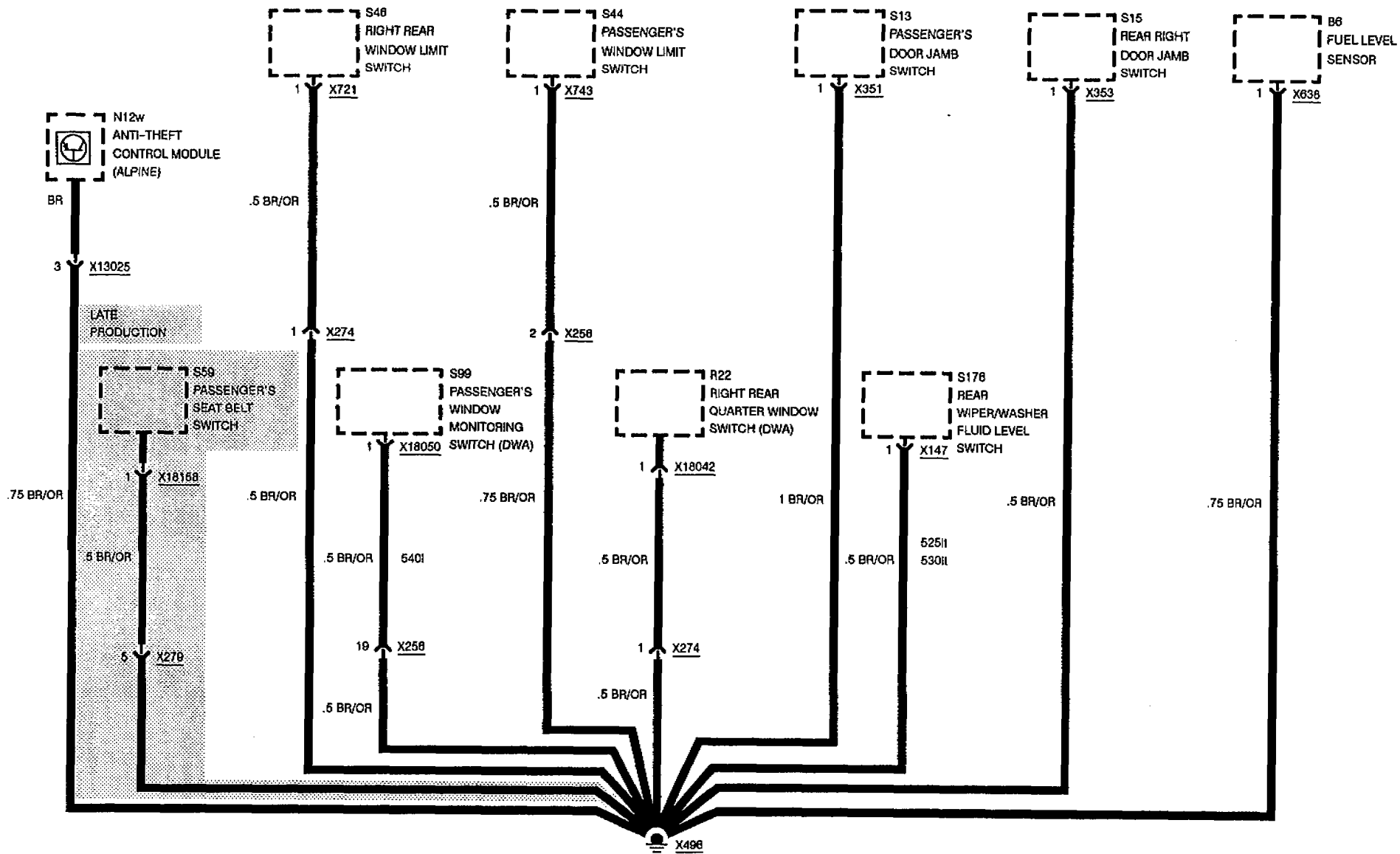
525it, 530it





# GROUND DISTRIBUTION

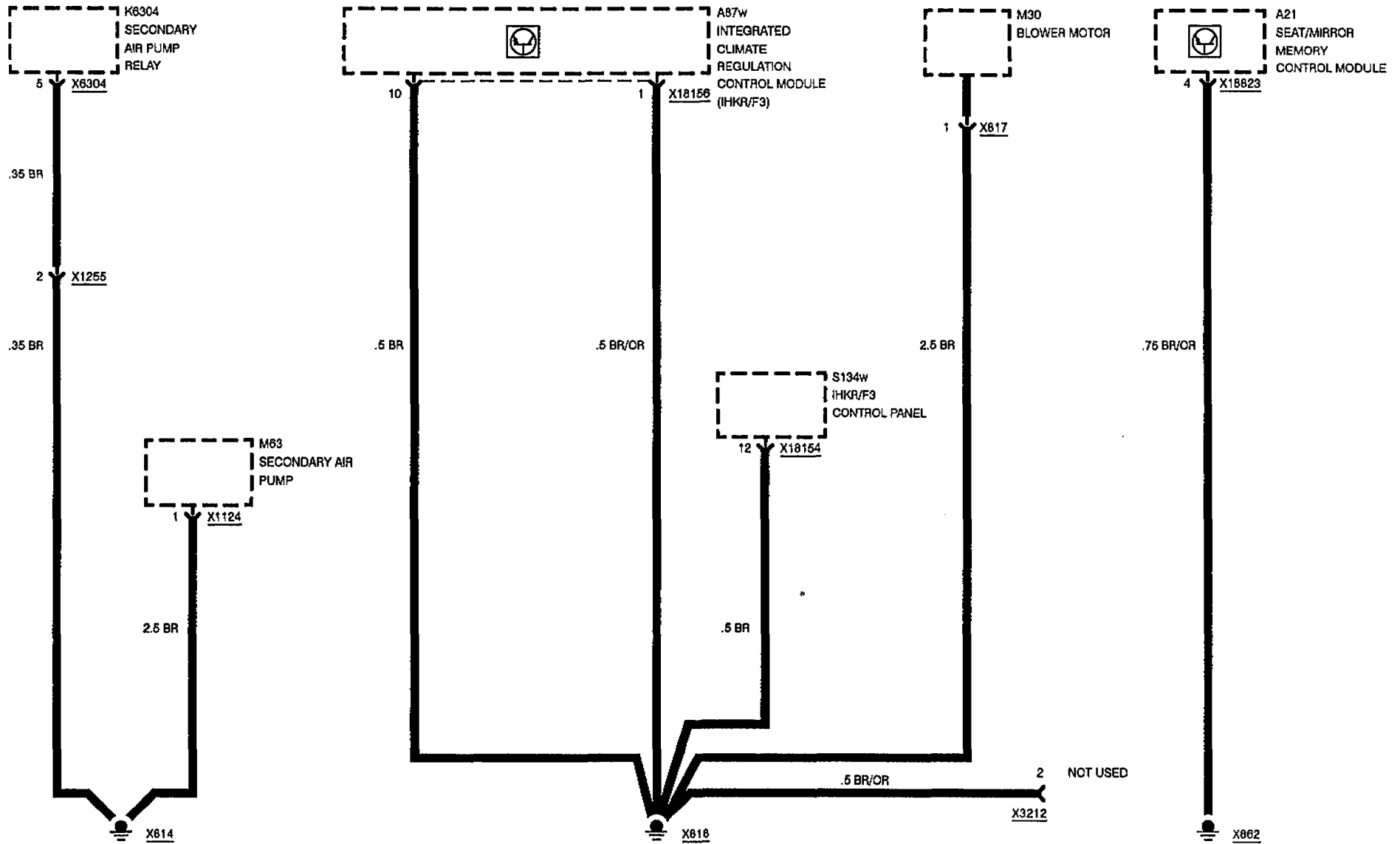
## GROUND X496





# GROUND DISTRIBUTION

## GROUND X814, X818 AND X862

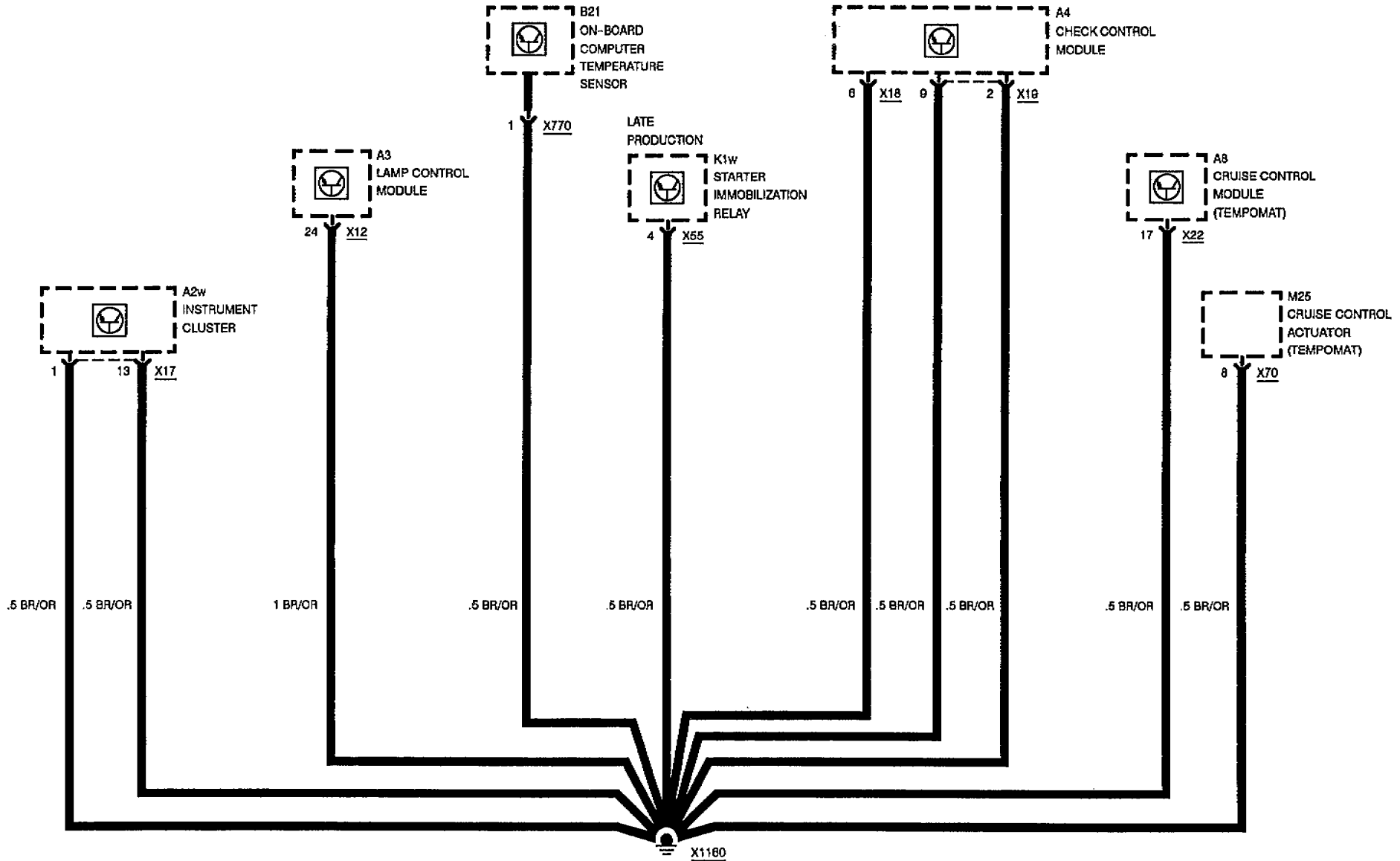






# GROUND DISTRIBUTION

## GROUND X1160

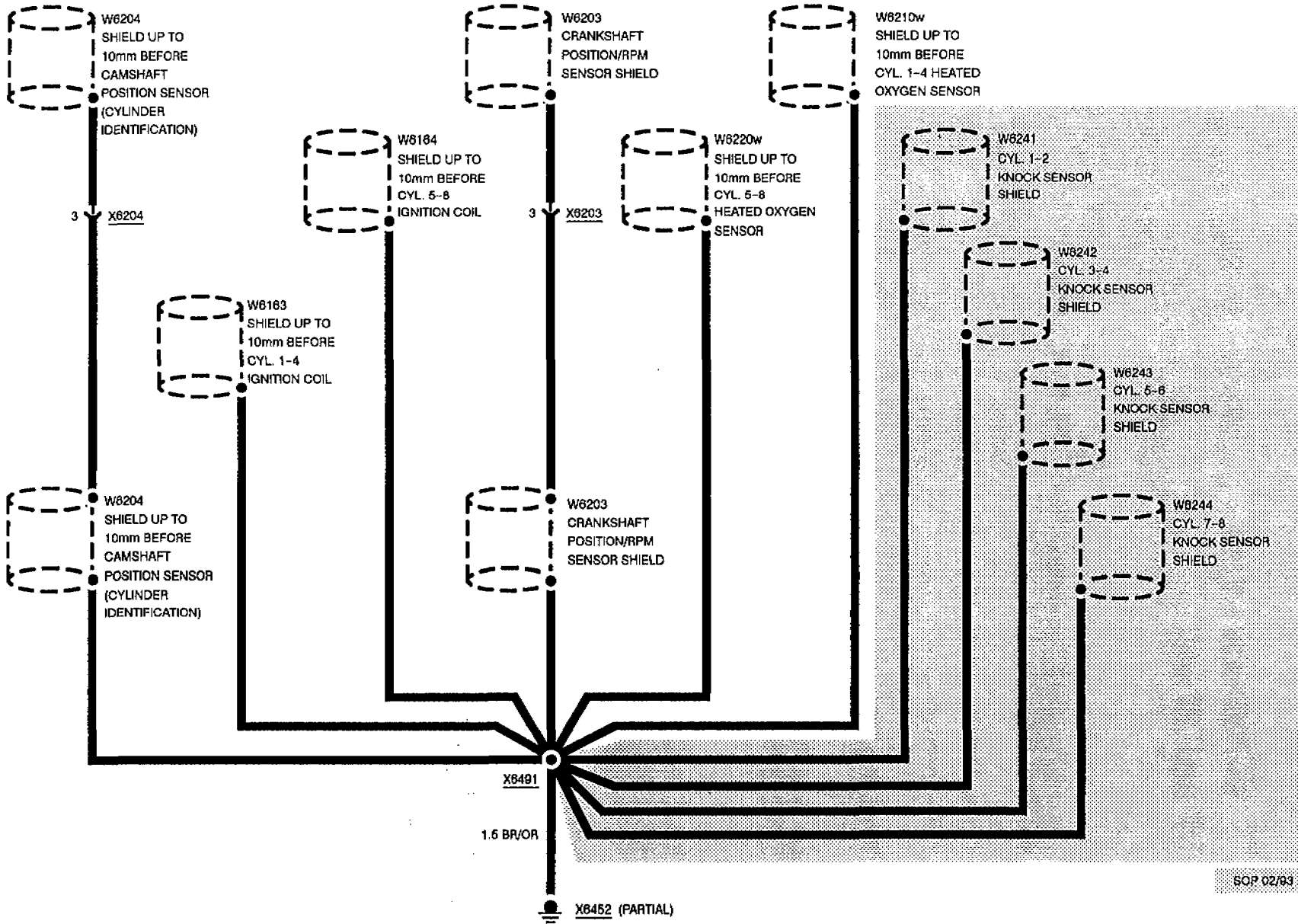




# GROUND DISTRIBUTION

530i/t, 540i

## GROUND X6452



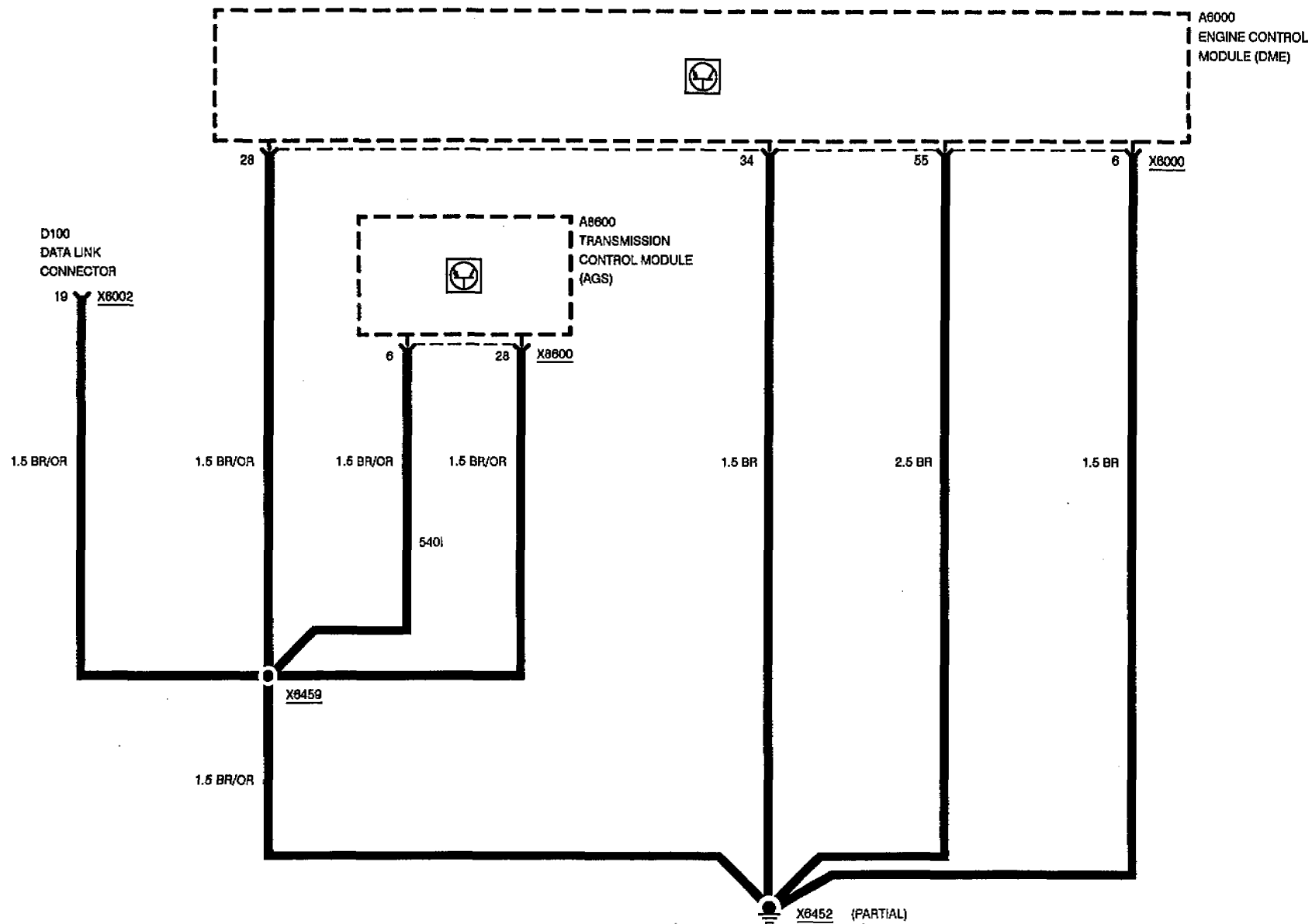
SOP 02/93



# GROUND DISTRIBUTION

530i/t, 540i

## GROUND X6452

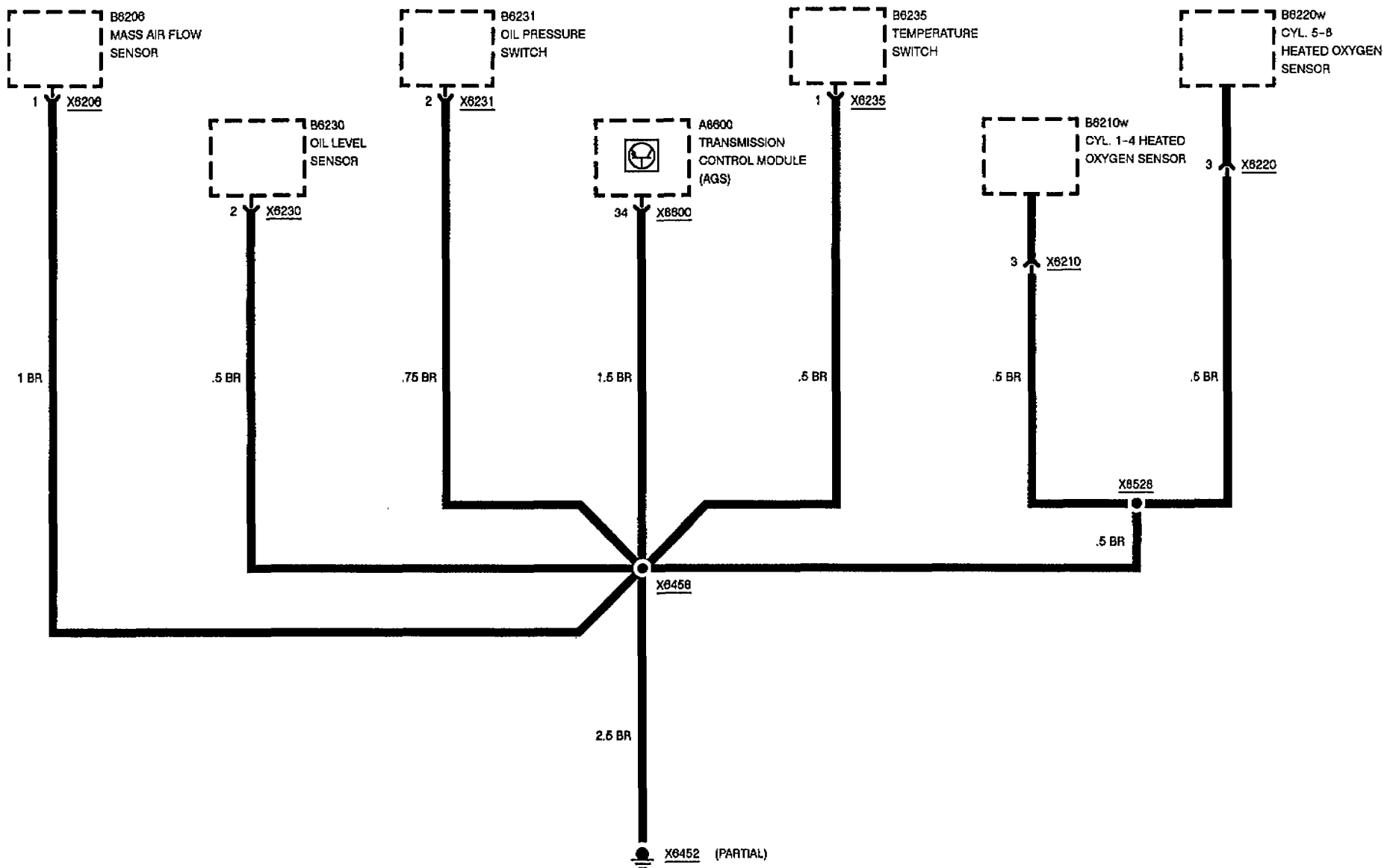




# GROUND DISTRIBUTION

530i/t, 540i

## GROUND X6452

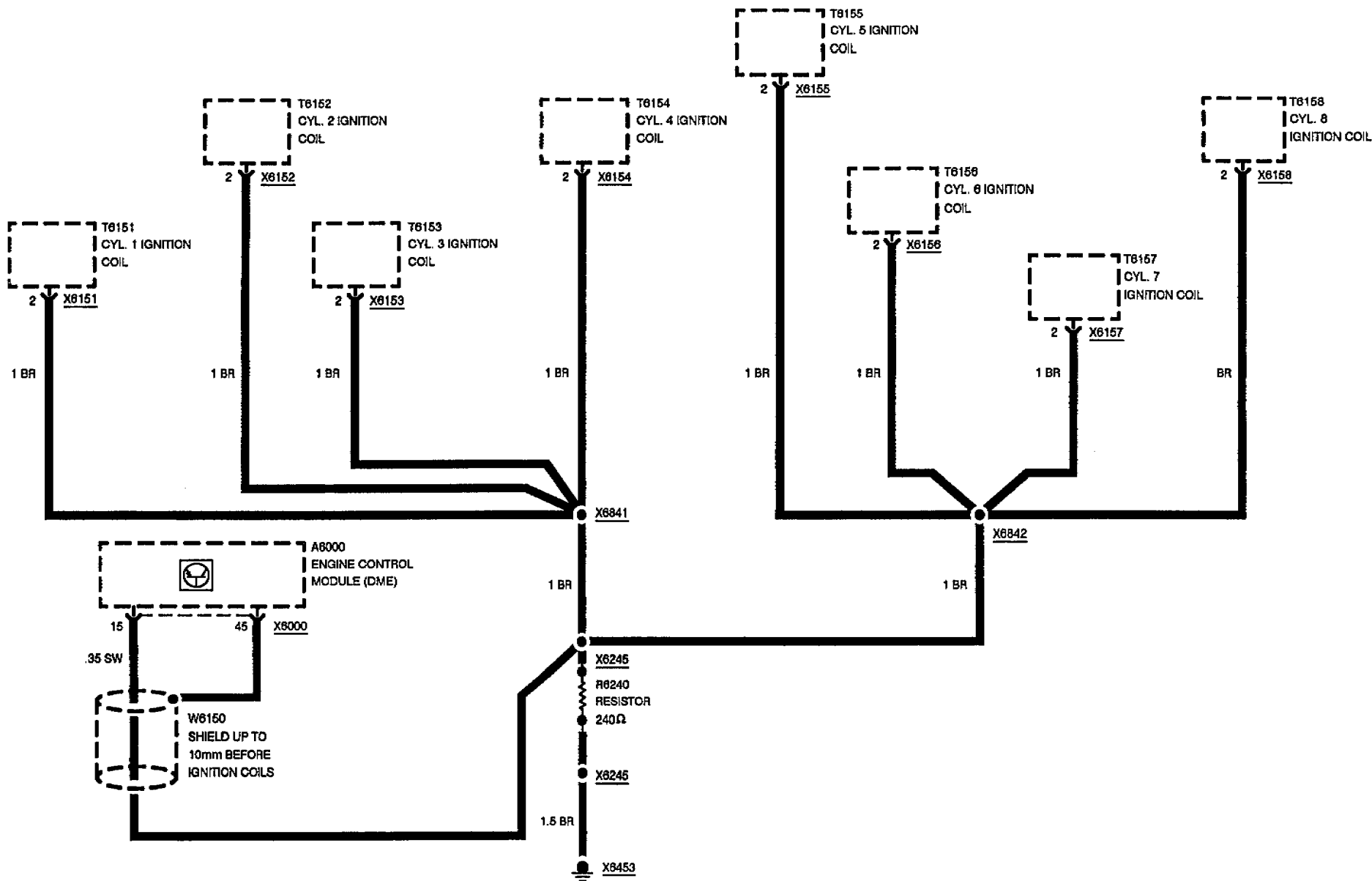




# GROUND DISTRIBUTION

530i/t, 540i

## GROUND X6453

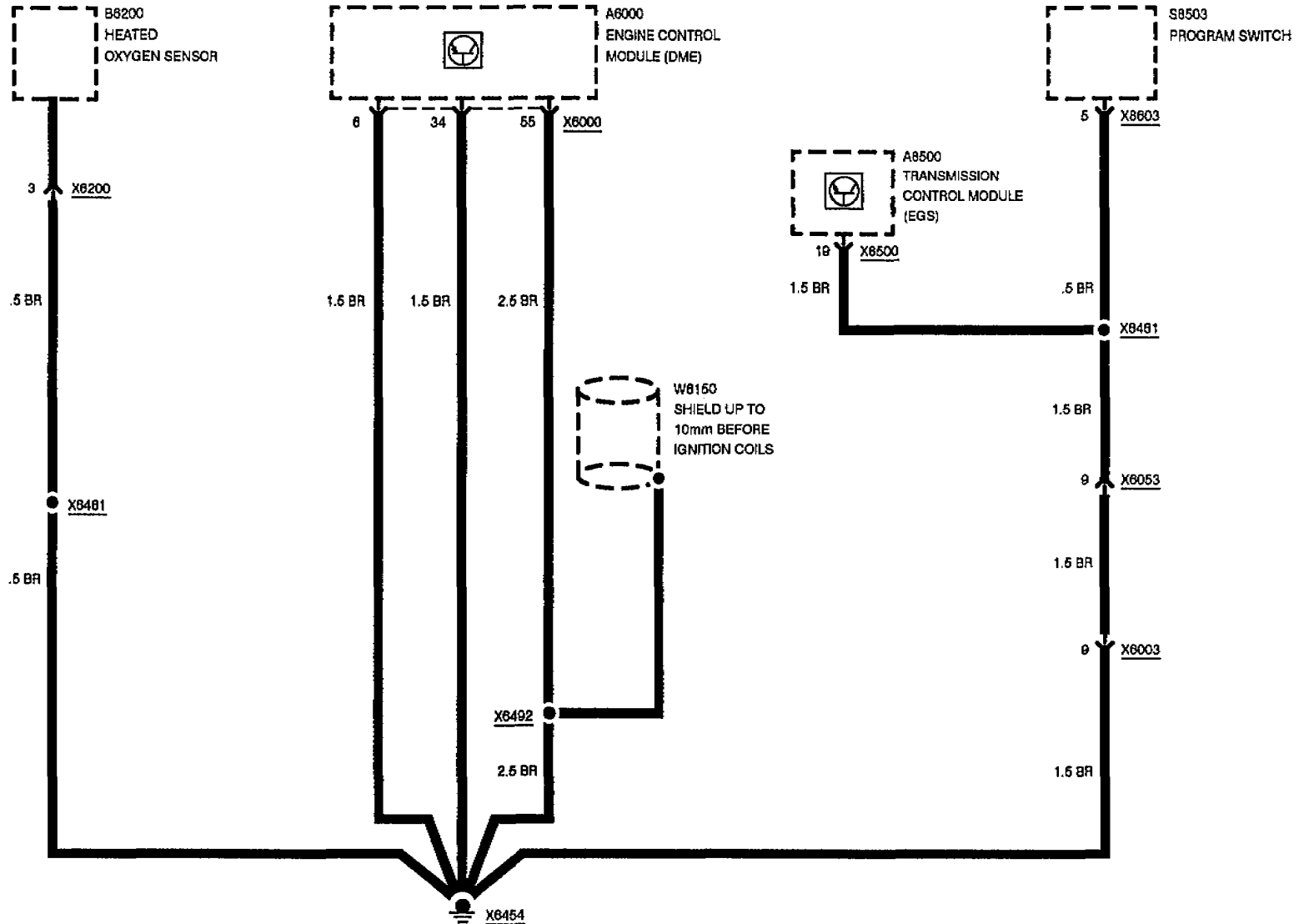


12/94 ————— 0670.4-24 ————— 1994



**GROUND DISTRIBUTION**  
**GROUND X6454**

525i/t



12/94

0670.4-25

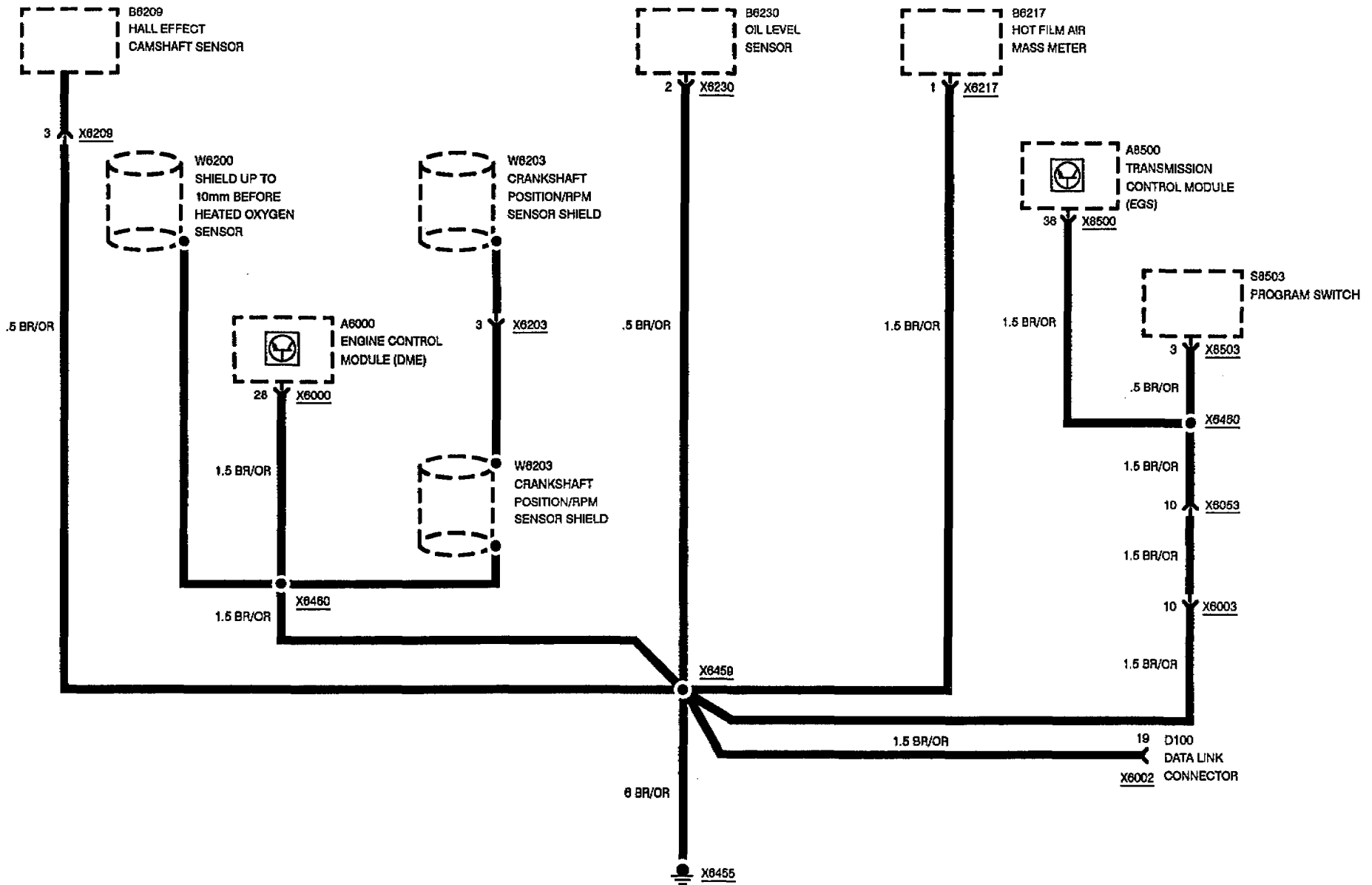
1994



# GROUND DISTRIBUTION

525i/t

## GROUND X6455

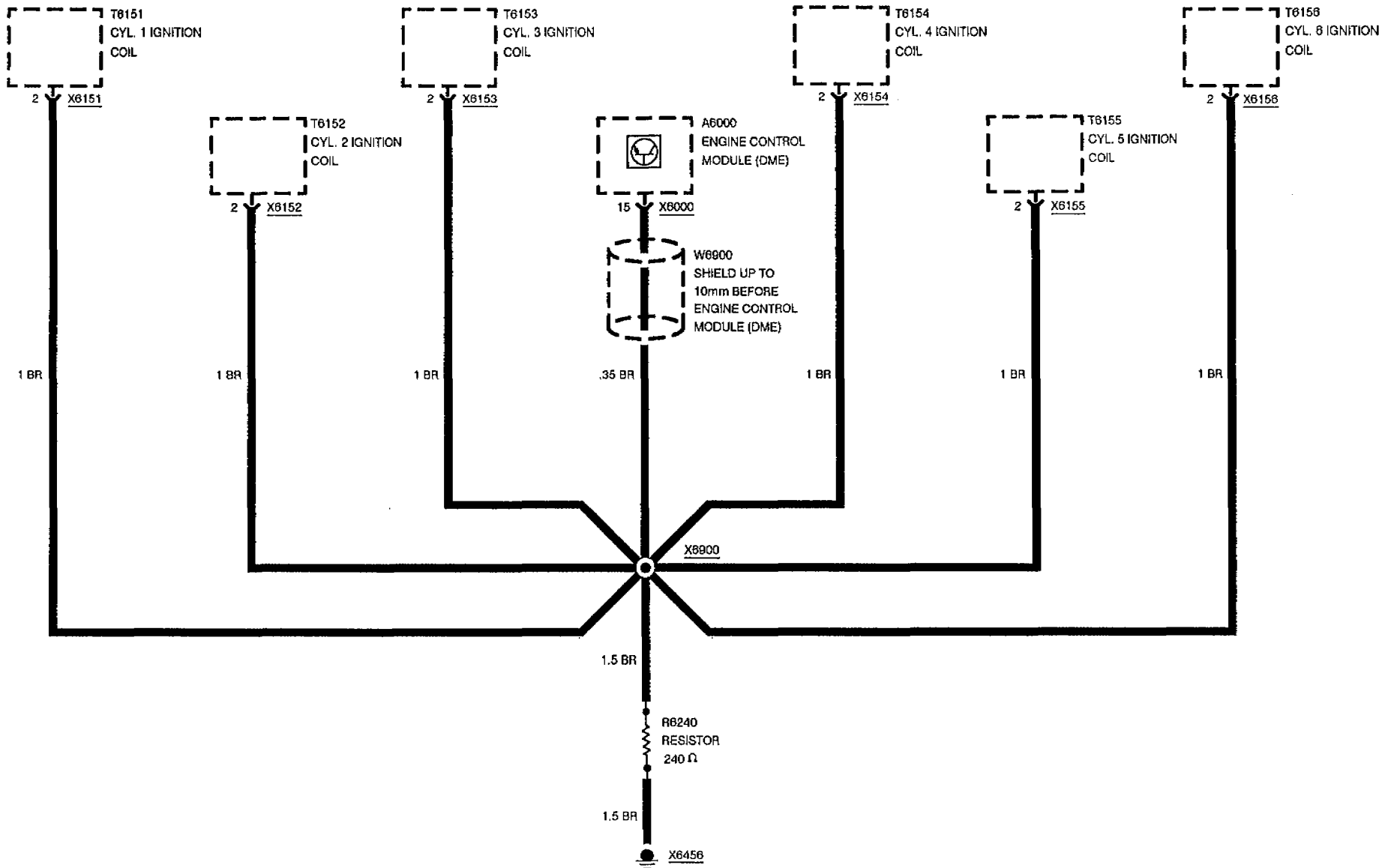




# GROUND DISTRIBUTION

525i/t

## GROUND X6456



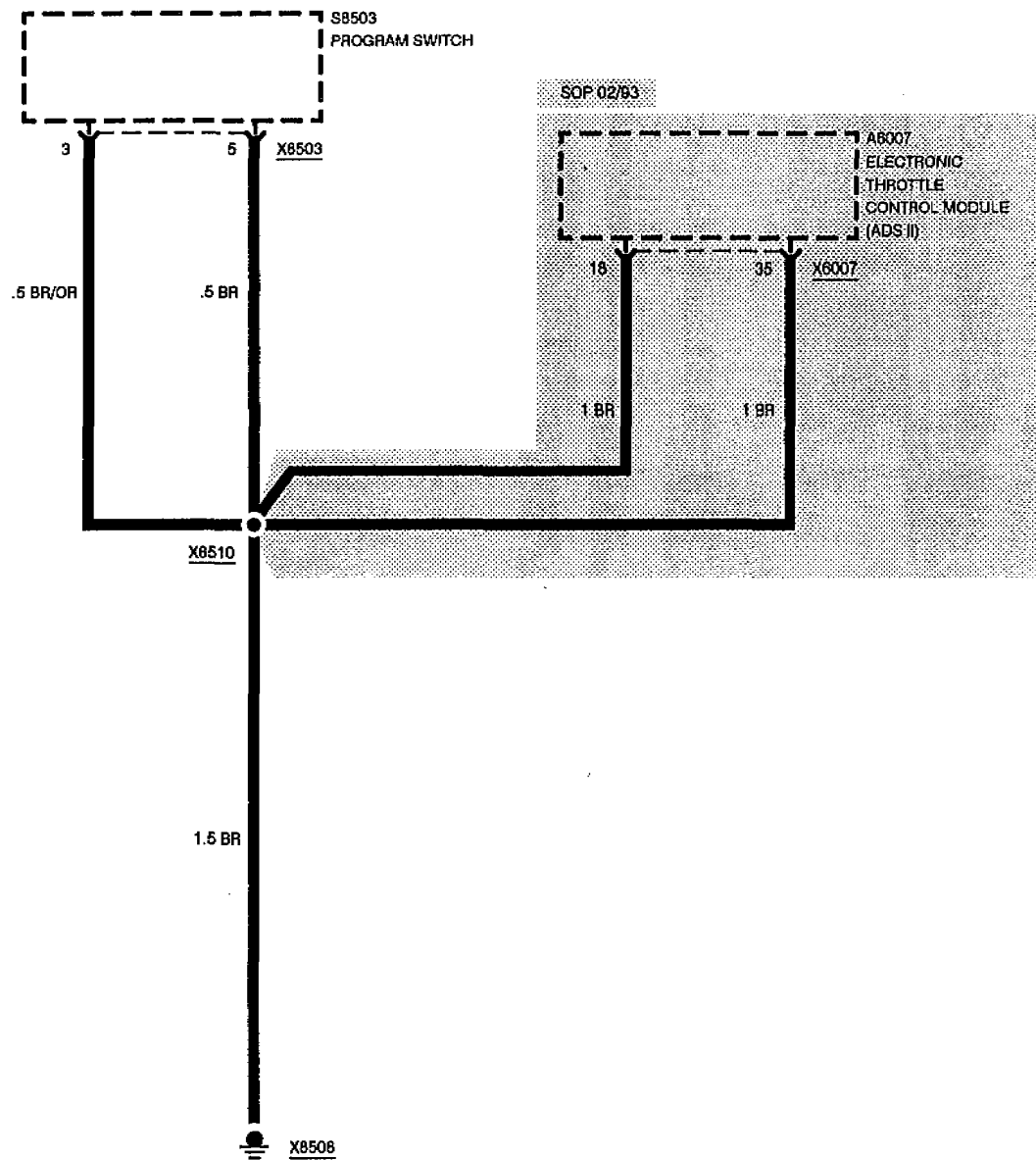




# GROUND DISTRIBUTION

## GROUND X8508

530i/t, 540i

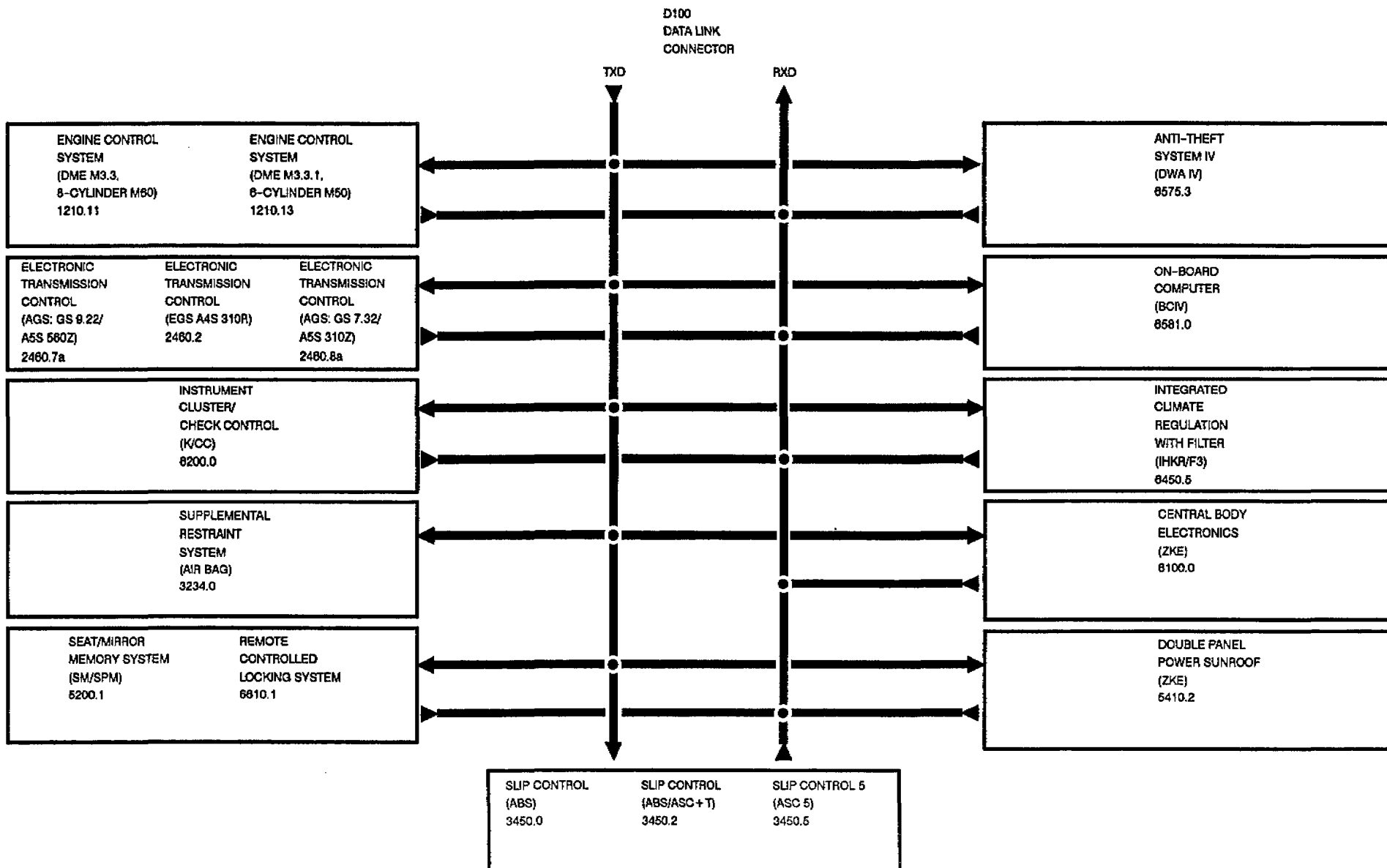




0670.5



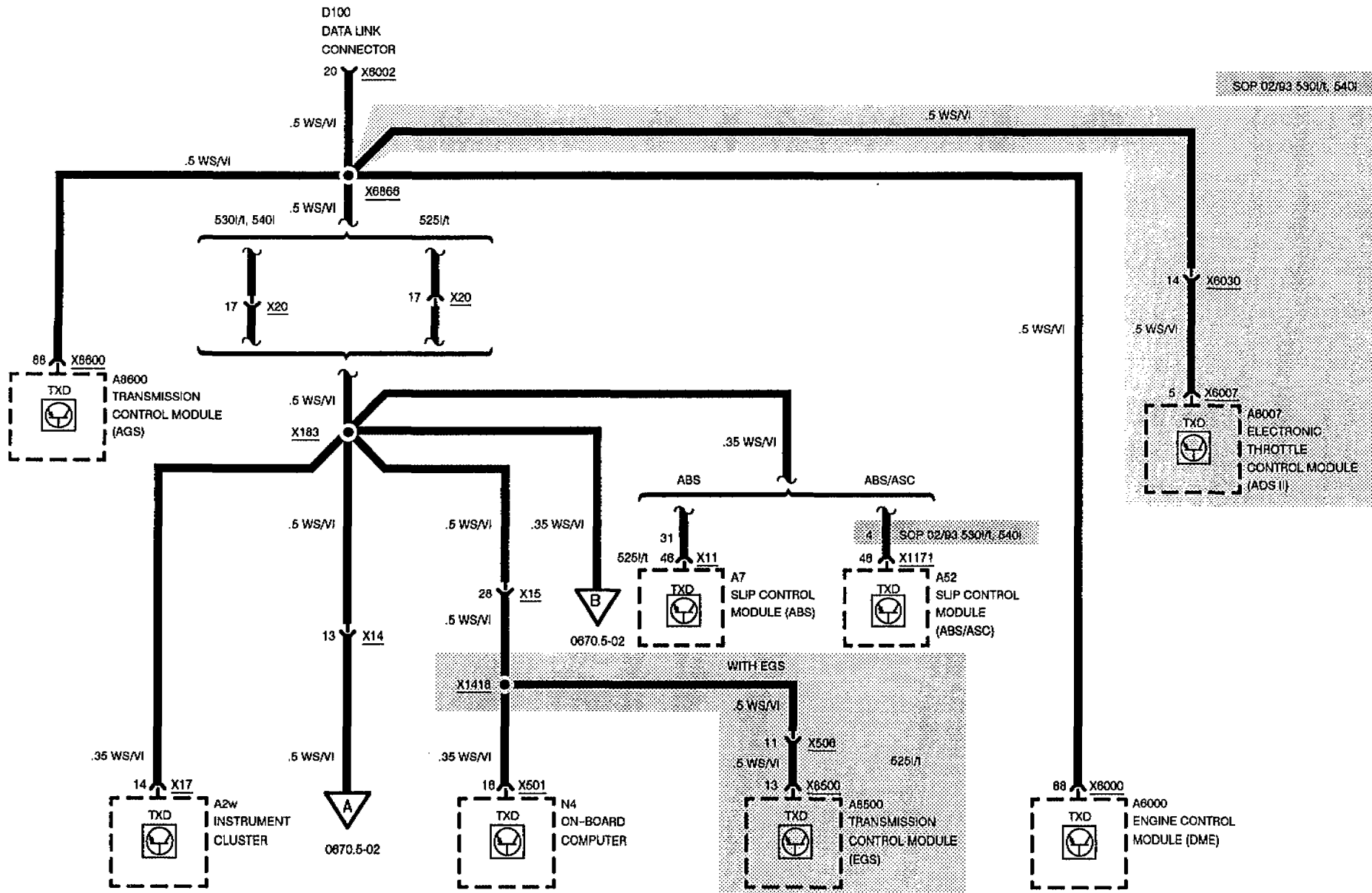
# DATA LINK BLOCK DIAGRAM





# DATA LINK

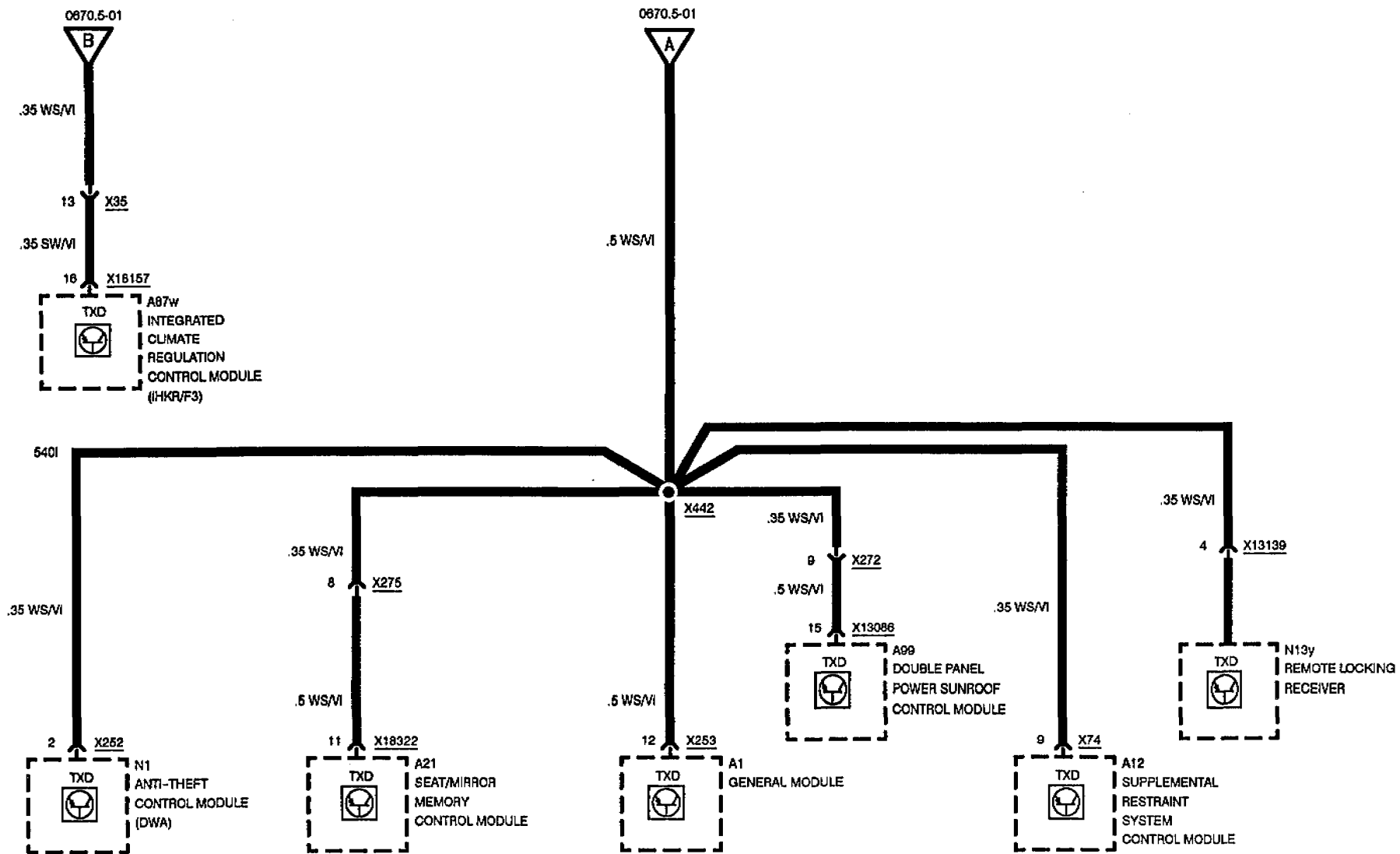
## TXD, PIN 20





# DATA LINK

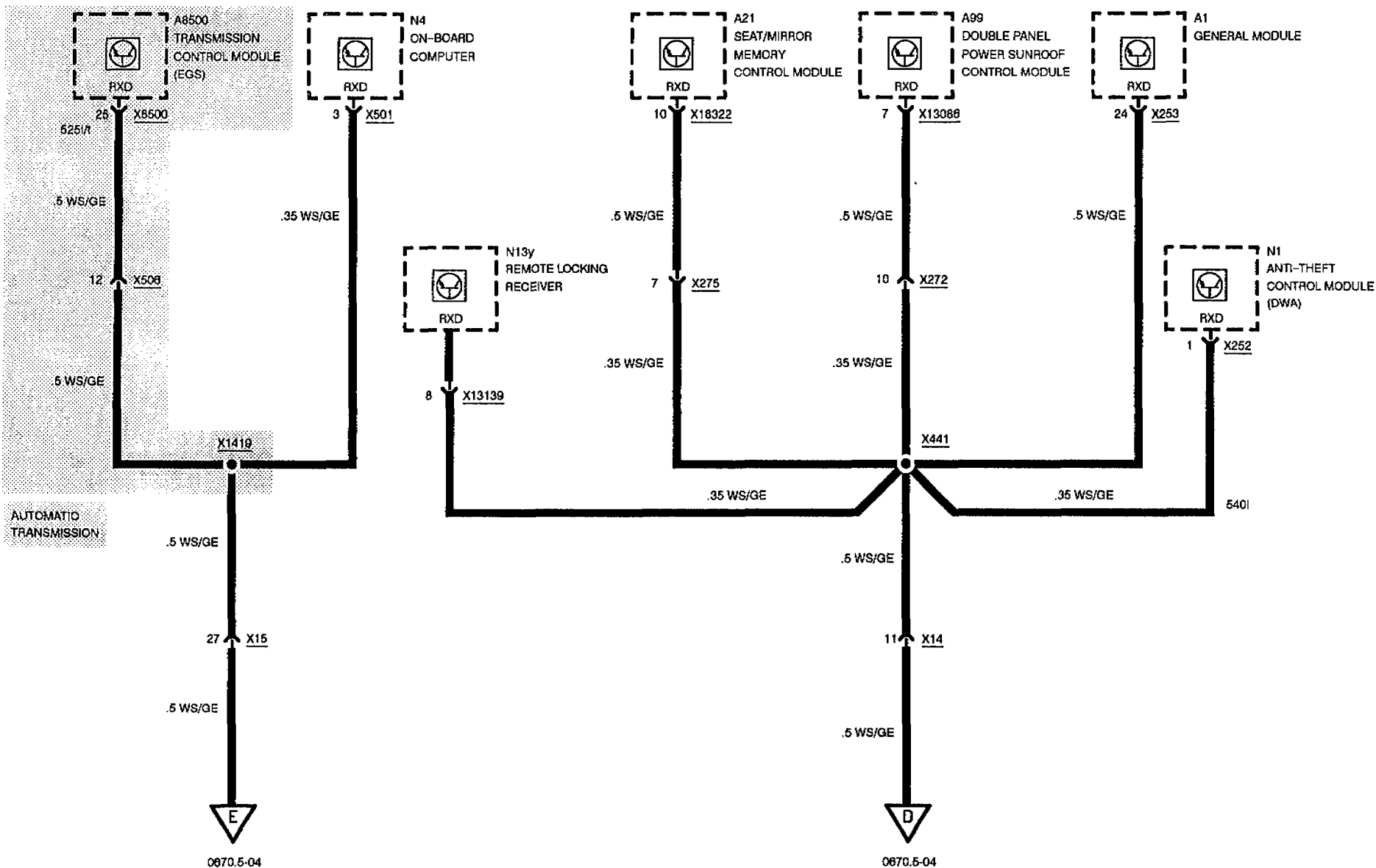
## TXD, PIN 20





# DATA LINK

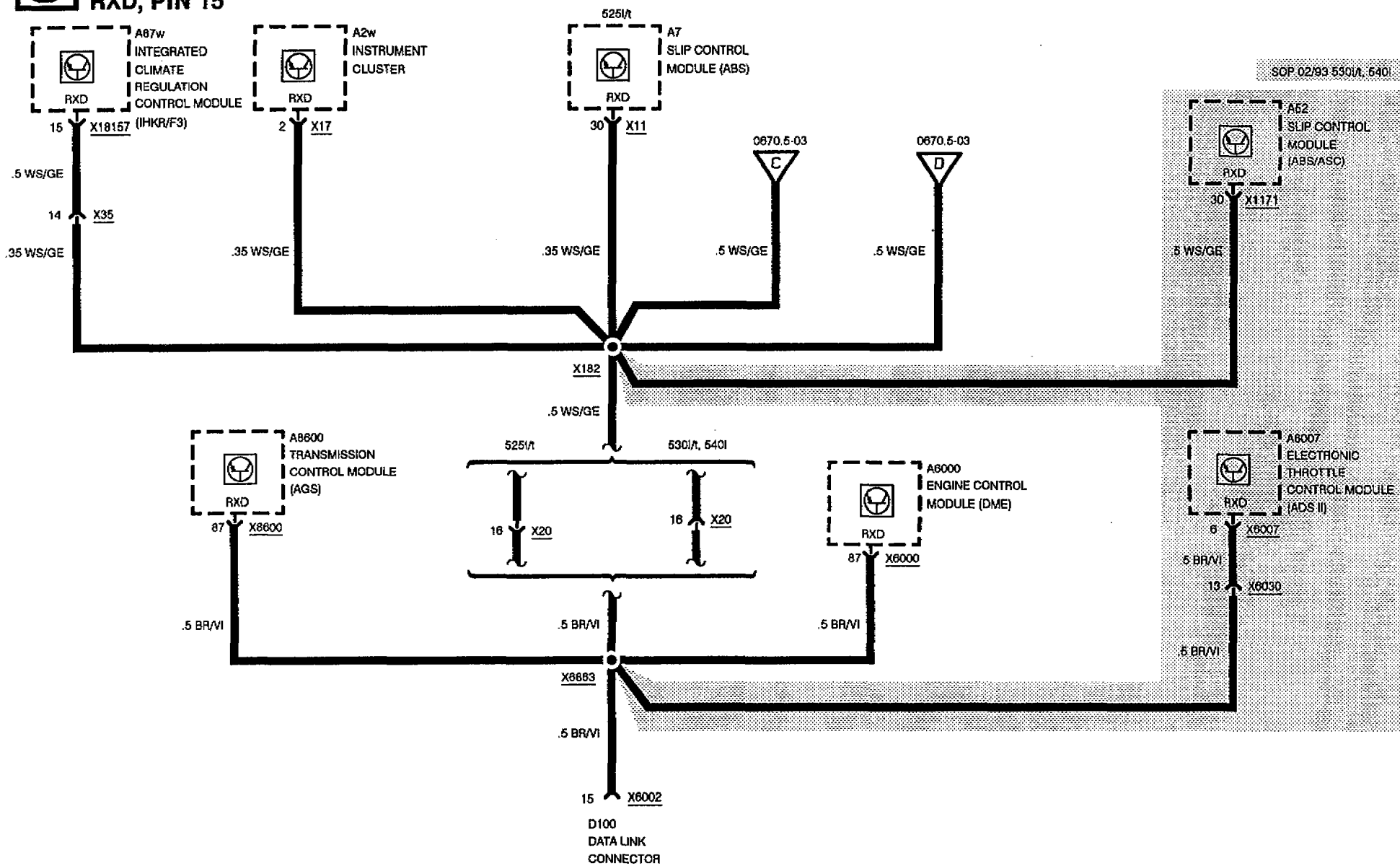
## RXD, PIN 15





# DATA LINK

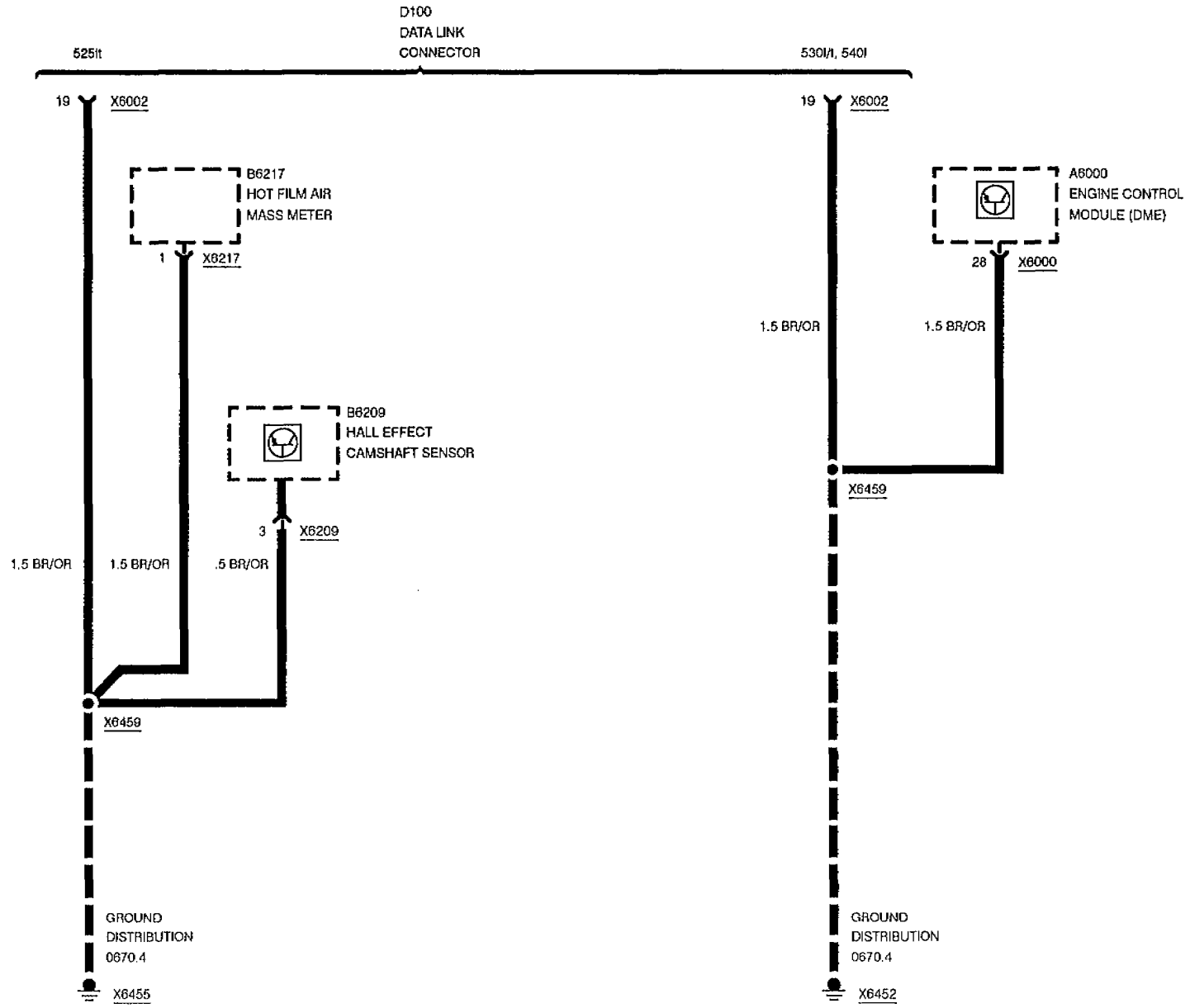
## RXD, PIN 15





# DATA LINK

## DATA LINK CONNECTOR PIN 19

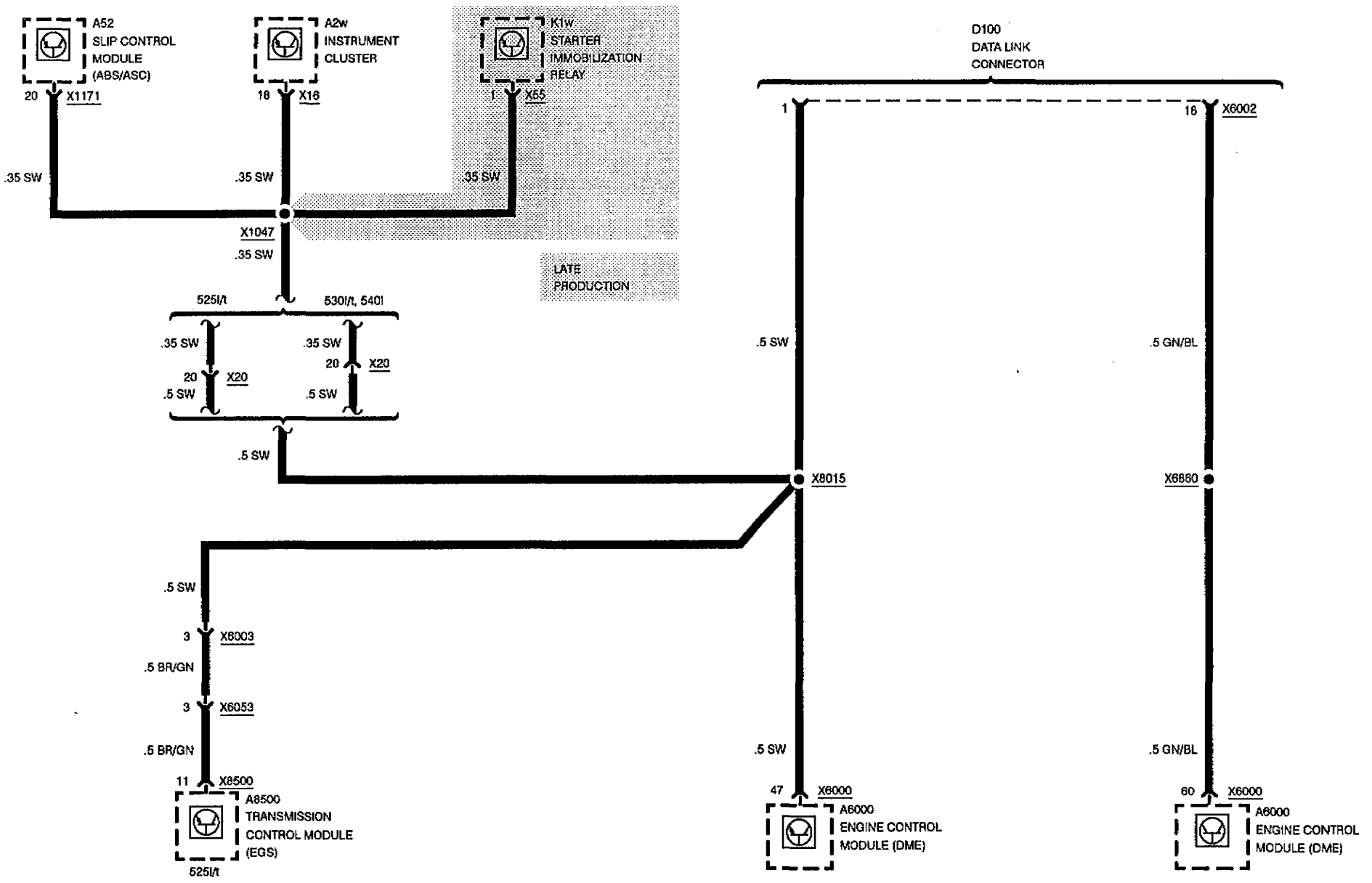






# DATA LINK

## DATA LINK CONNECTOR PINS 1, 18

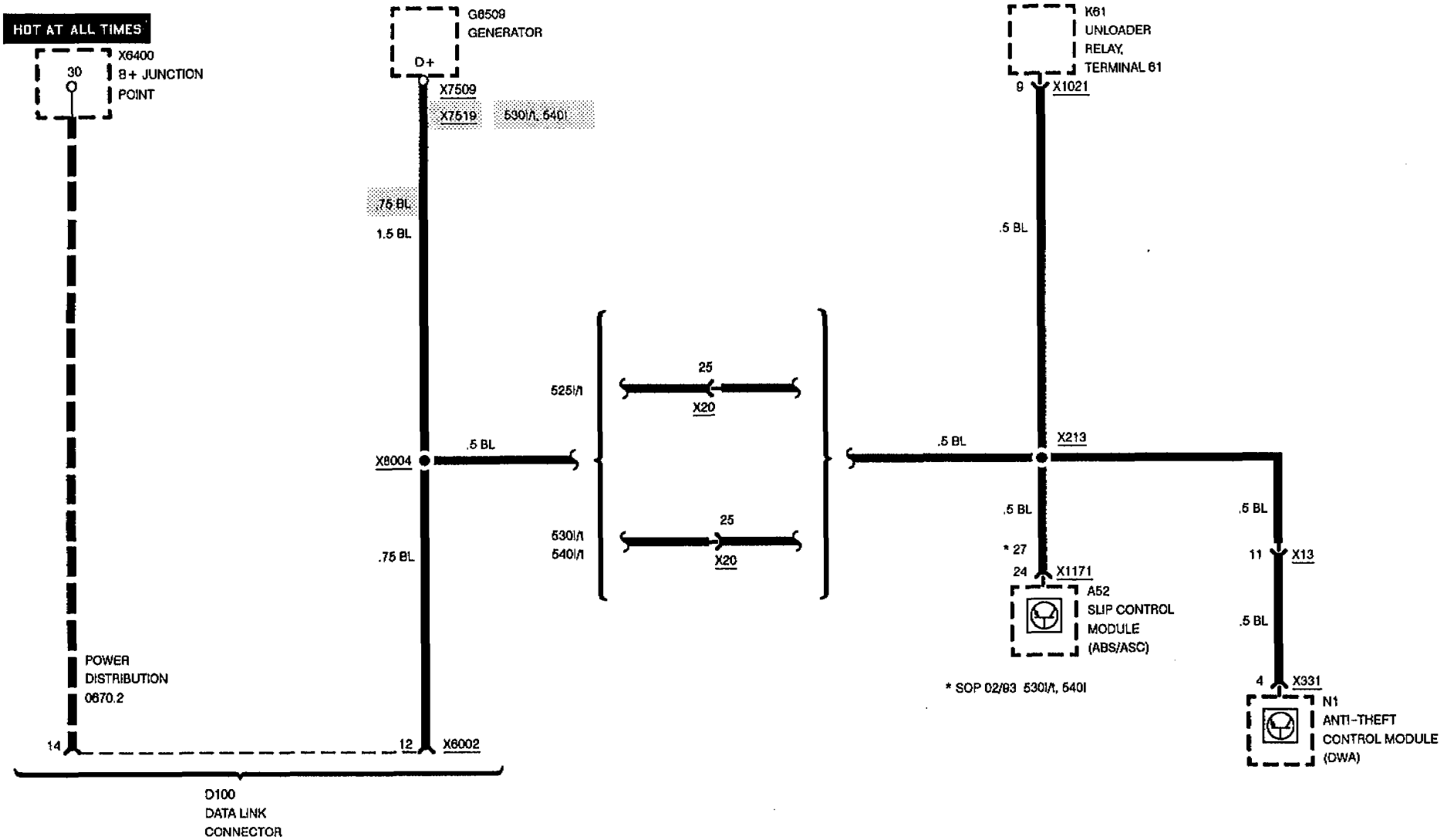


12/94  
0670.5-06  
1994



# DATA LINK

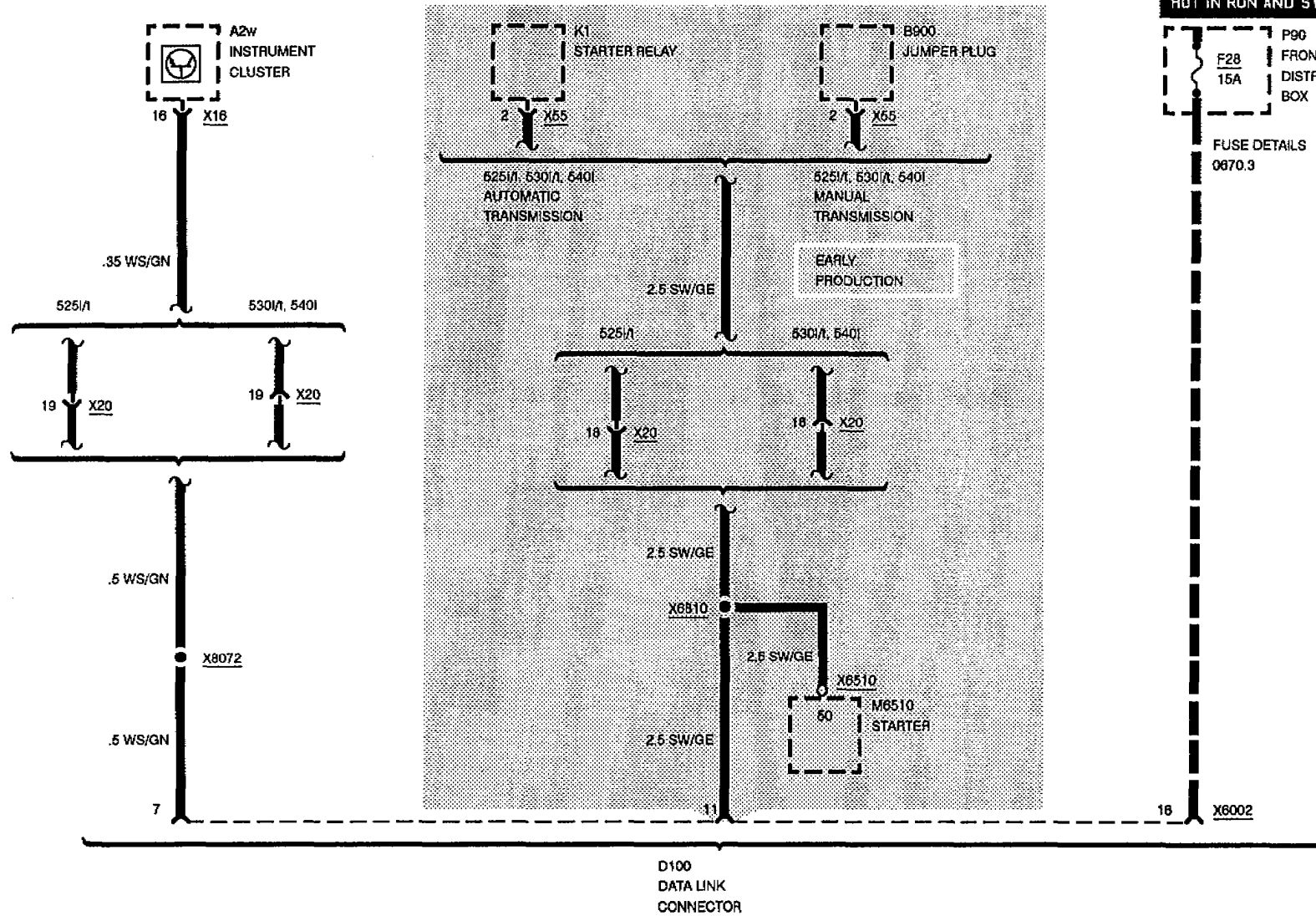
## DATA LINK CONNECTOR PINS 12 AND 14





# DATA LINK

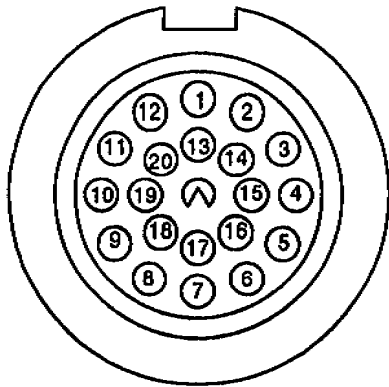
## DATA LINK CONNECTOR PINS 7, 11, AND 16





# DATA LINK

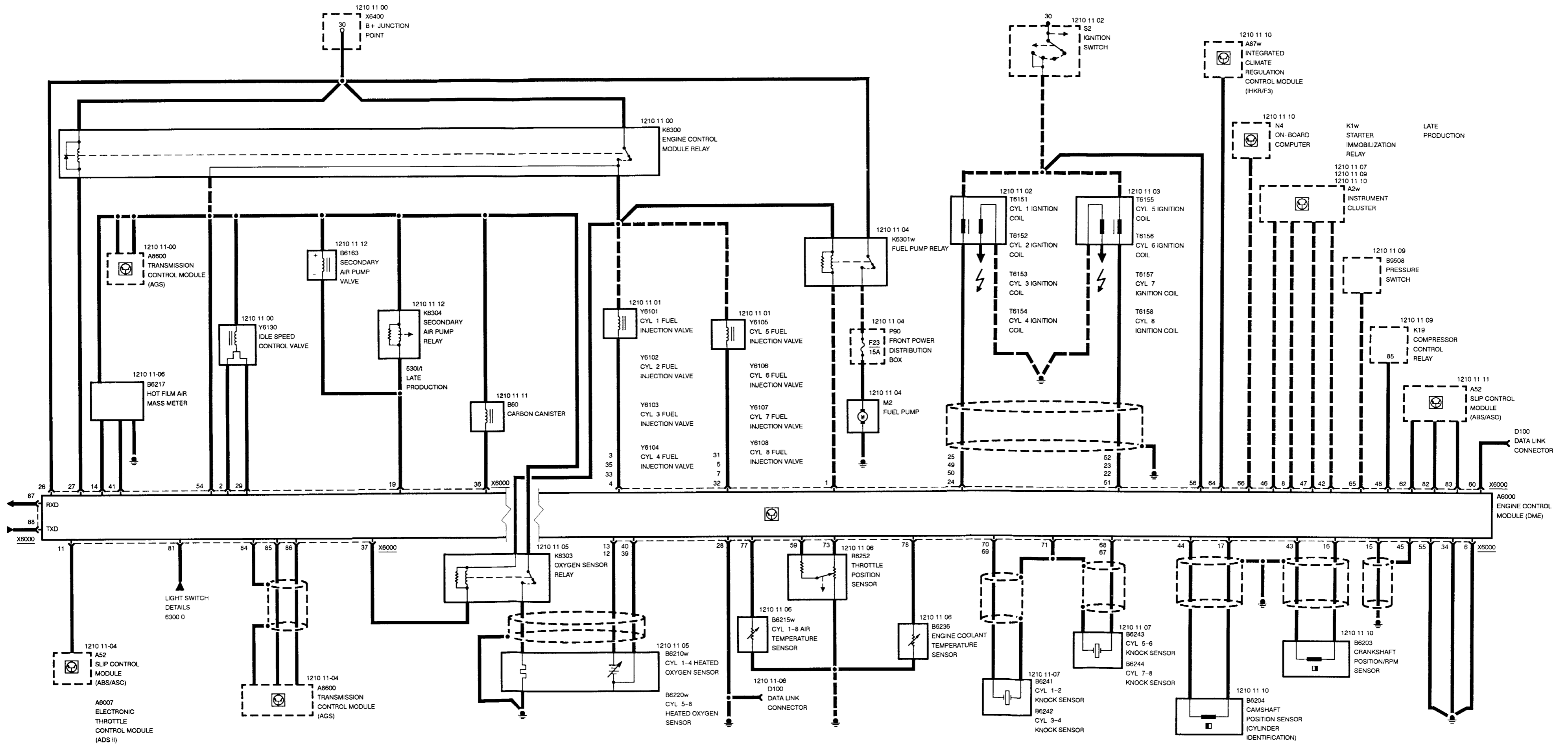
## DATA LINK CONNECTOR (X6002)

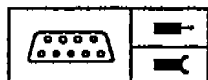


PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	TD	SPEED SIGNAL	SW
2	-	NOT OCCUPIED	
3	-	NOT OCCUPIED	
4	-	NOT OCCUPIED	
5	-	NOT OCCUPIED	
6	-	NOT OCCUPIED	
7	SI	SERVICE INDICATOR REMINDER	WS/GN
8	-	NOT OCCUPIED	
9	-	NOT OCCUPIED	
10	-	NOT OCCUPIED	
11	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE EARLY PRODUCTION
11	-	NOT OCCUPIED	LATE PRODUCTION
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	-	NOT OCCUPIED	
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	RECEIVE	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN	GN/WS
17	-	NOT OCCUPIED	
18	PGSP	ENGINE CONTROL (DME) PROGRAMMING LINE	GN/BL
19	31	GROUND	BR/OR
20	TXD	TRANSMIT	WS/VI

BMW  
5

0670.5-10





## Pin Assignments

### X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay	Fuel pump relay
2	A	Close ZWD	Idle speed control valve
3	A	Injection valve 1	Injection valve
4	A	Injection valve 4	Injection valve
5	A	Injection valve 6	Injection valve
6	M	Ground, injection valves	Ground point
7	A	Injection valve 7	Injection valve
8	A	"Check engine" indicator	Instrument cluster
9		Not used	
10		Not used	
11	A	Throttle angle signal	Slip control module (ABS/ASC)
12	E	Oxygen sensor 2 signal	Oxygen sensor
13	E	Oxygen sensor 1 signal	Oxygen sensor
14	M	Ground HLM (HFM)	Mass air flow sensor
15	M	Signal, ignition circuit monitoring	Ground connection
16	E	KWG signal	Crankshaft sensor
17	E	NWG signal	Camshaft sensor
18		Not used	
19	A	Activation, secondary air pump	Relay/valve air pump (530i/t: Late Production)
20		Not used	
21		Not used	
22	A	Ignition 7	Ignition coil
23	A	Ignition 6	Ignition coil
24	A	Ignition 4	Ignition coil
25	A	Ignition 1	Ignition coil
26	E	Continuous pulse	B+ junction coil
27	A	Activation, main relay	Main relay
28	M	Ground, electronics/shield/sensors	Ground point
29	A	ZWD open	Idle speed control valve
30		Not used	

E = Input, A = Output, M = Ground

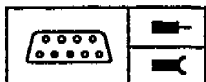


## Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Injection valve 5	Injection valve
32	A	Injection valve 8	Injection valve
33	A	Injection valve 3	Injection valve
34	M	Ground, remaining output stages	Ground connection
35	A	Injection valve 2	Injection valve
36	A	Evaporative emission	Carbon canister
37	A	Heated oxygen sensor relay	Oxygen sensor relay
38		Not used	
39	M	Ground, oxygen sensor 2	Oxygen sensor 2
40	M	Ground, oxygen sensor 1	Oxygen sensor 1
41	E	HLM signal (HFM)	Mass air flow sensor
42	E	Speed signal	Instrument cluster
43	M	KWG ground	Crankshaft sensor
44	M	NWG ground	Camshaft sensor
45	M	Ground, ignition circuit monitoring	Shield
46	A	KVA signal	Instrument cluster
47	A	TD signal	Instrument cluster
48	A	A/C compressor signal	A/C compressor relay
49	A	Ignition 2	Ignition coil
50	A	Ignition 3	Ignition coil
51	A	Ignition 8	Ignition coil
52	A	Ignition 5	Ignition coil
53		Not used	
54	E	Engine control module relay, voltage	Engine control module relay
55	M	Ground, ignition	Ground connection
56	E	Terminal 15	Ignition switch
57		Not used	
58		Not used	
59	A	+5V supply	Throttle control potentiometer
60	E	Programming voltage input	Data link connector
61		Not used	
62	A	S-EML	ASC+T control module

E = Input, A = Output, M = Ground





## Pin Assignments

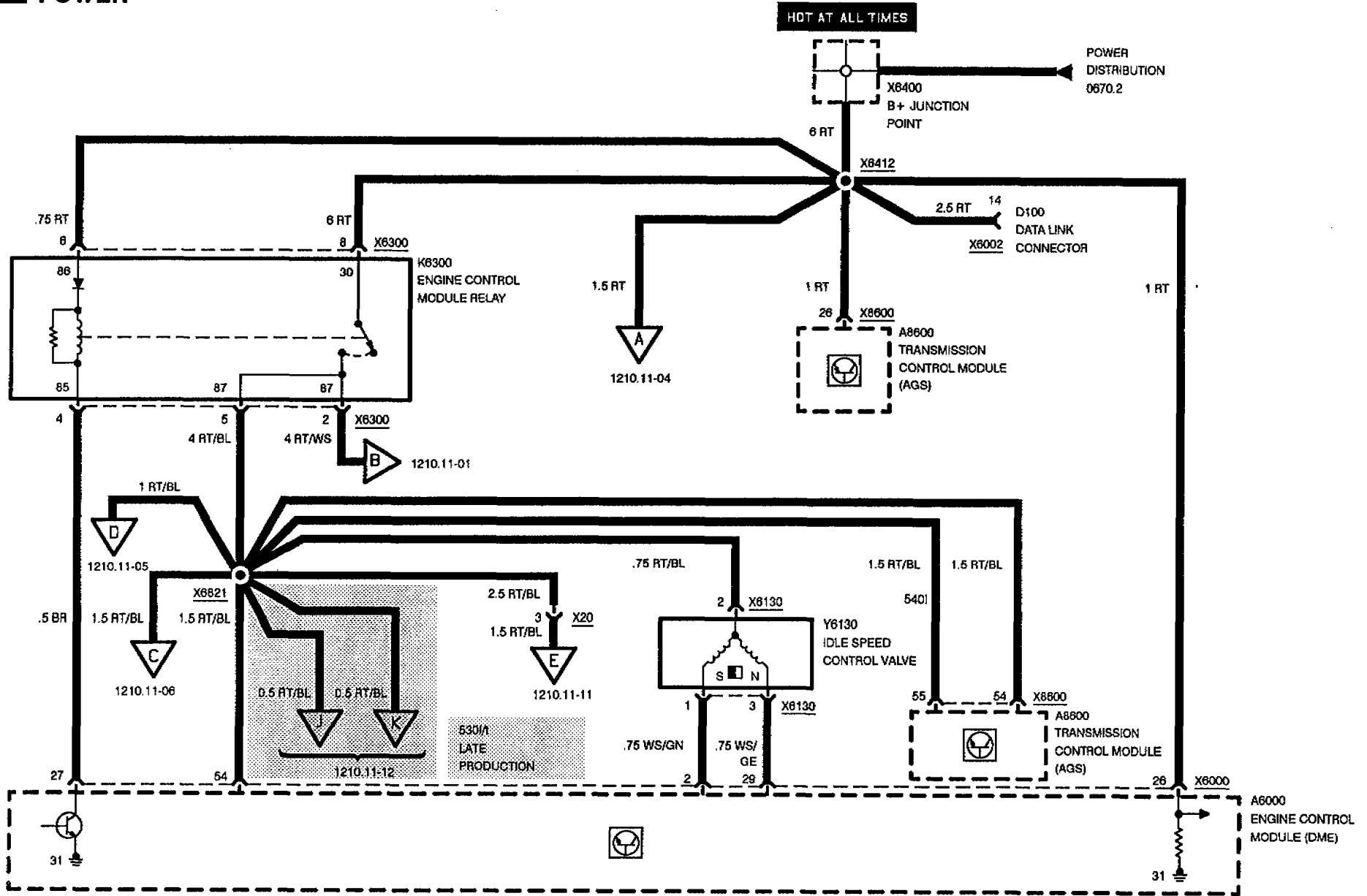
Pin	Type	Description/Function	Connection
63		Not used	
64	E	A/C signal	A/C control module
65	E	A/C compressor signal	Pressure switch
66	E	Drive away protection signal	On-board computer (Early Production) Starter immobilization relay (Late Production)
67	E	Knock sensor 4 signal	Knock sensor
68	E	Knock sensor 3 signal	Knock sensor
69	E	Knock sensor 2 signal	Knock sensor
70	E	Knock sensor 1 signal	Knock sensor
71	M	Ground, analog signals and knock sensors	Sensors
72		Not used	
73	E	Signal, throttle (DK) sensor	Throttle control potentiometer
74		Not used	
75		Not used	
76		Not used	
77	E	Intake air temperature	Intake air temperature sensor
78	E	Coolant temperature	Coolant temperature sensor
79		Not used	
80		Not used	
81	E	S-FS low beam	Light switch
82	E	Signal, engine drag torque control	ASC + T control module
83	E	Signal, drive slips control	ASC + T control module
84	A	CAN shield	Transmission control module
85	E/A	CAN-L	Transmission control module
86	E/A	CAN-H	Transmission control module
87	E	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, 8-CYLINDER M60)

## POWER



12/94

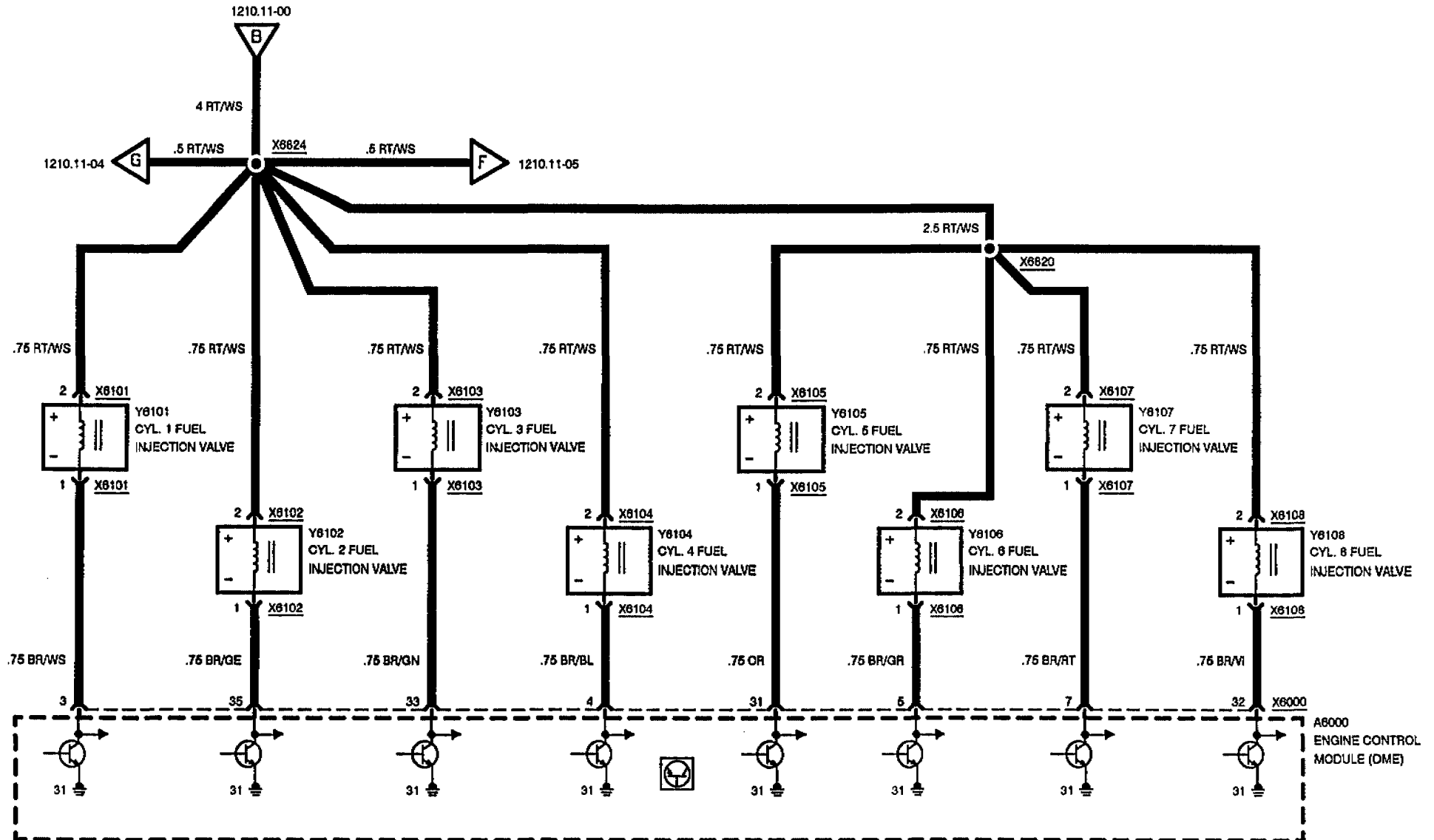
1210.11-00

1994



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

## FUEL INJECTION VALVES



09/93

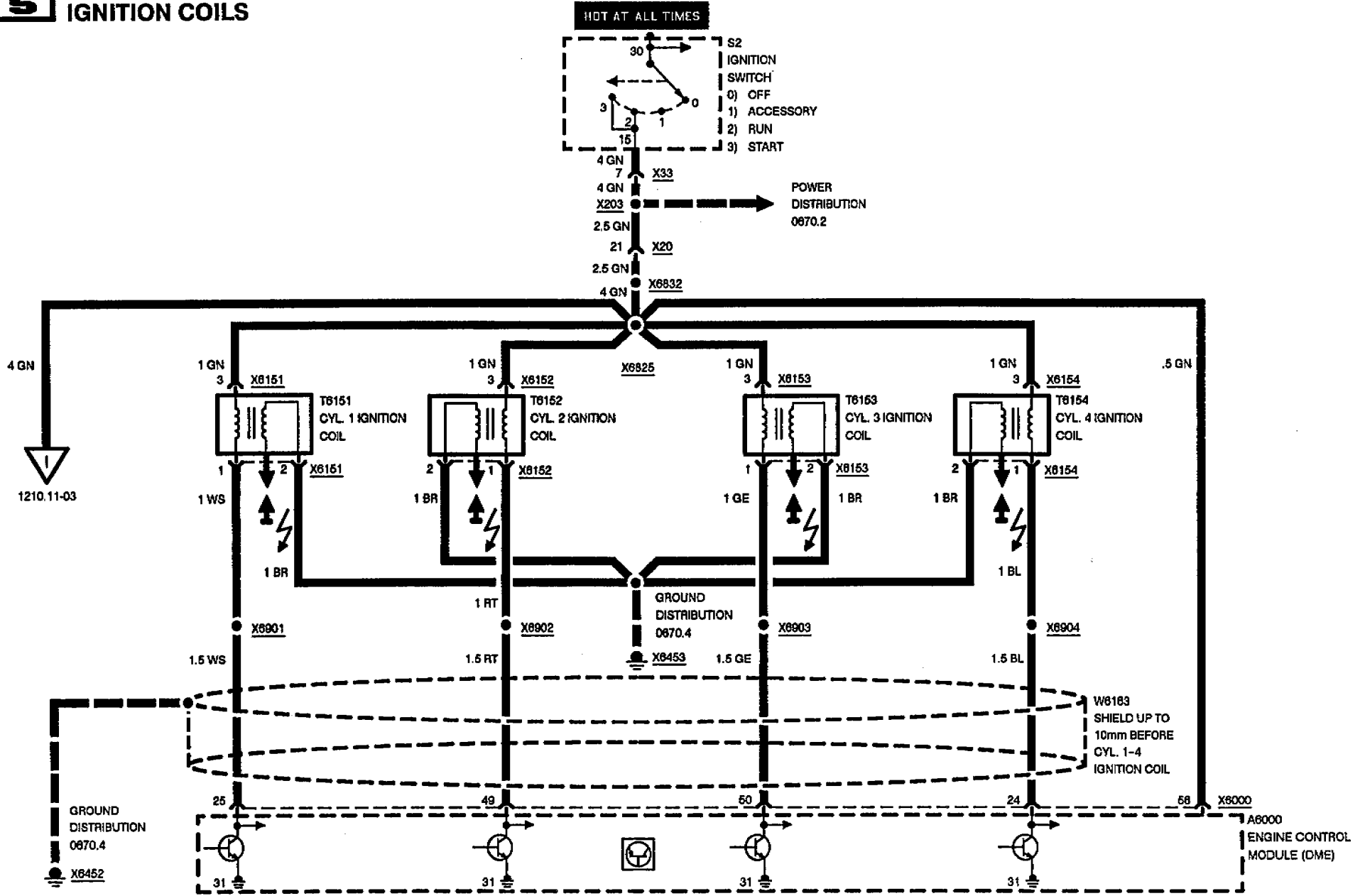
1210.11-01

1994



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

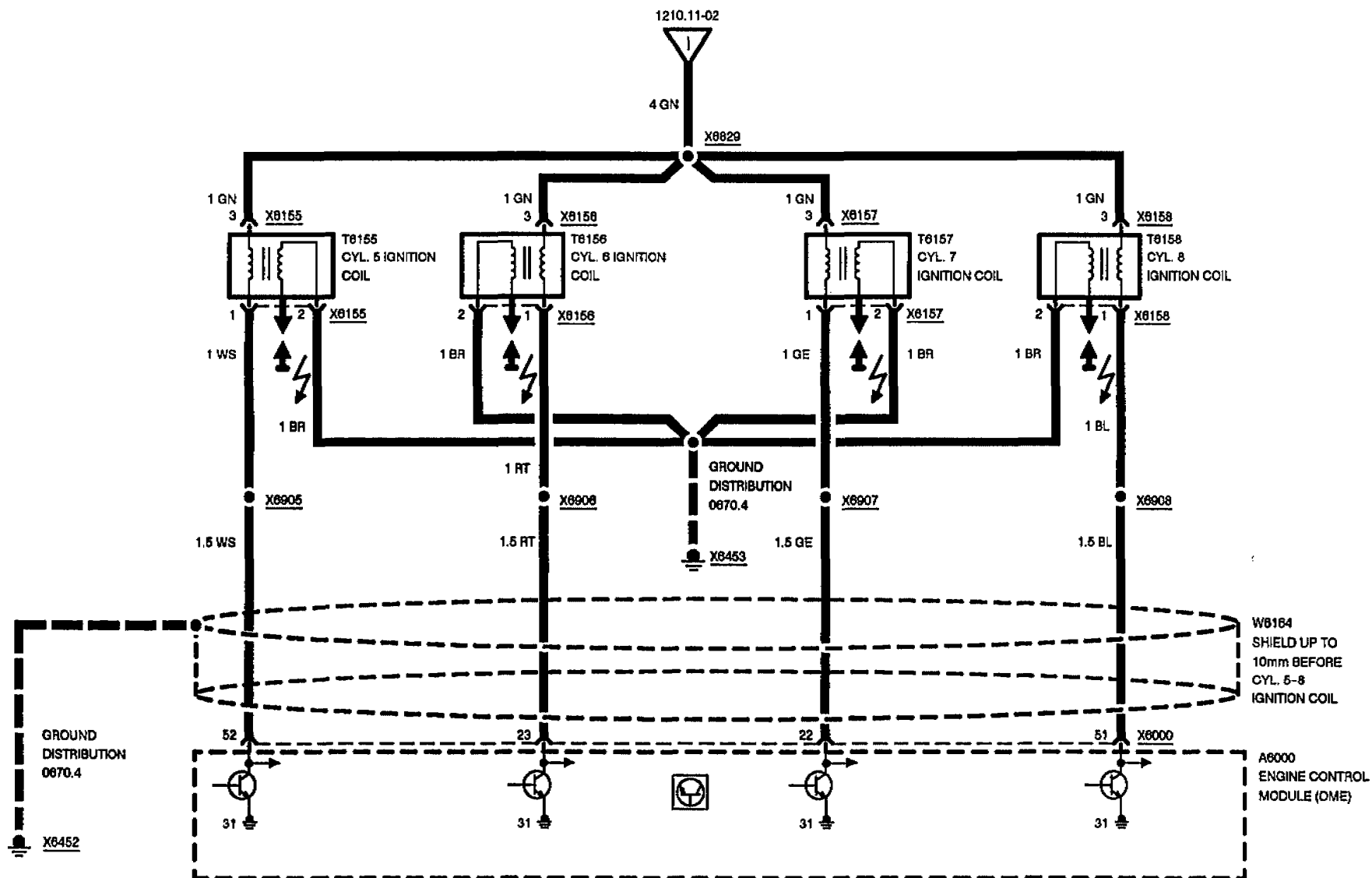
## IGNITION COILS





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

## IGNITION COILS



09/93

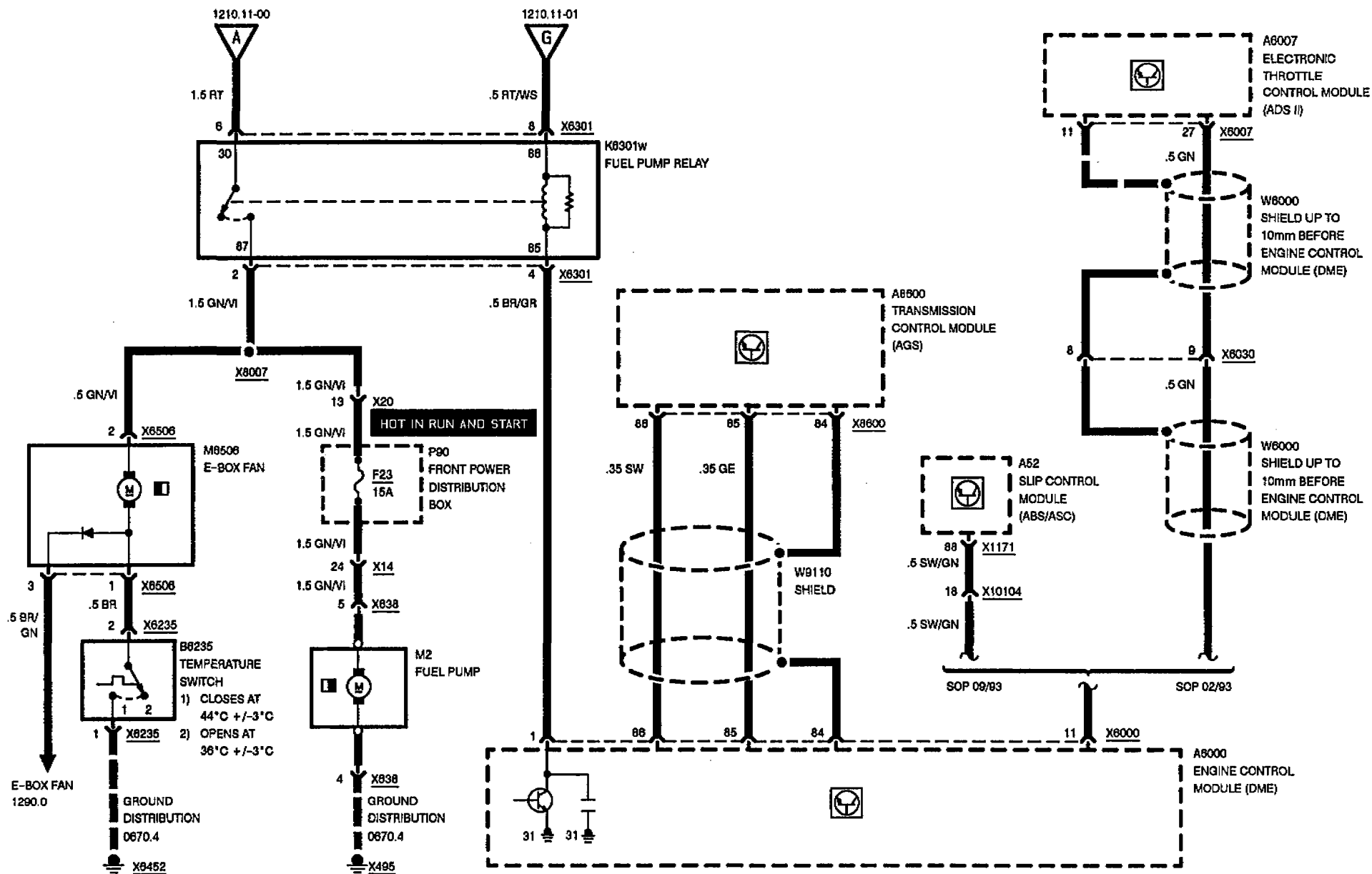
1210.11-03

1994



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

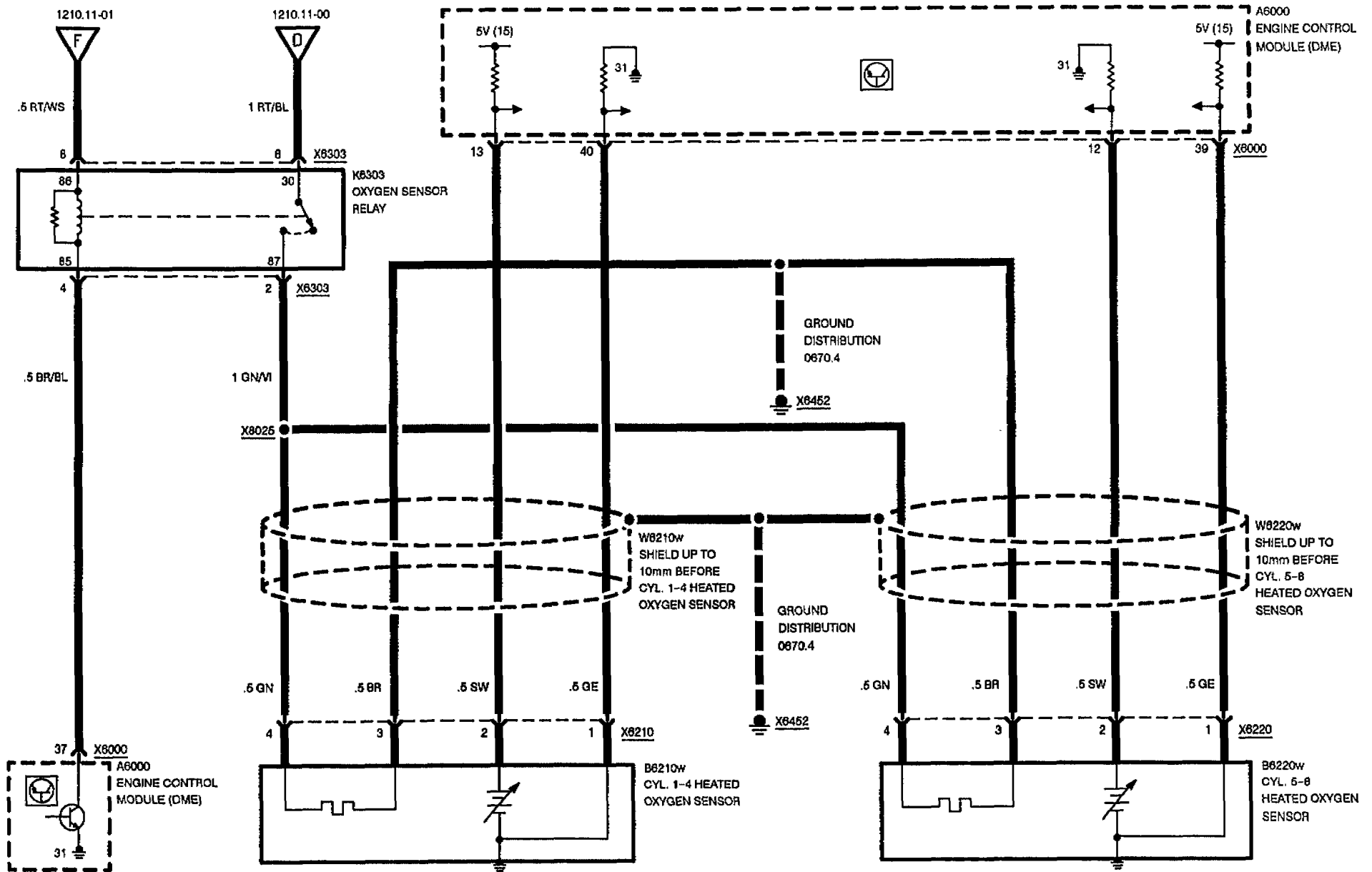
## FUEL PUMP





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

## OXYGEN SENSORS



09/93

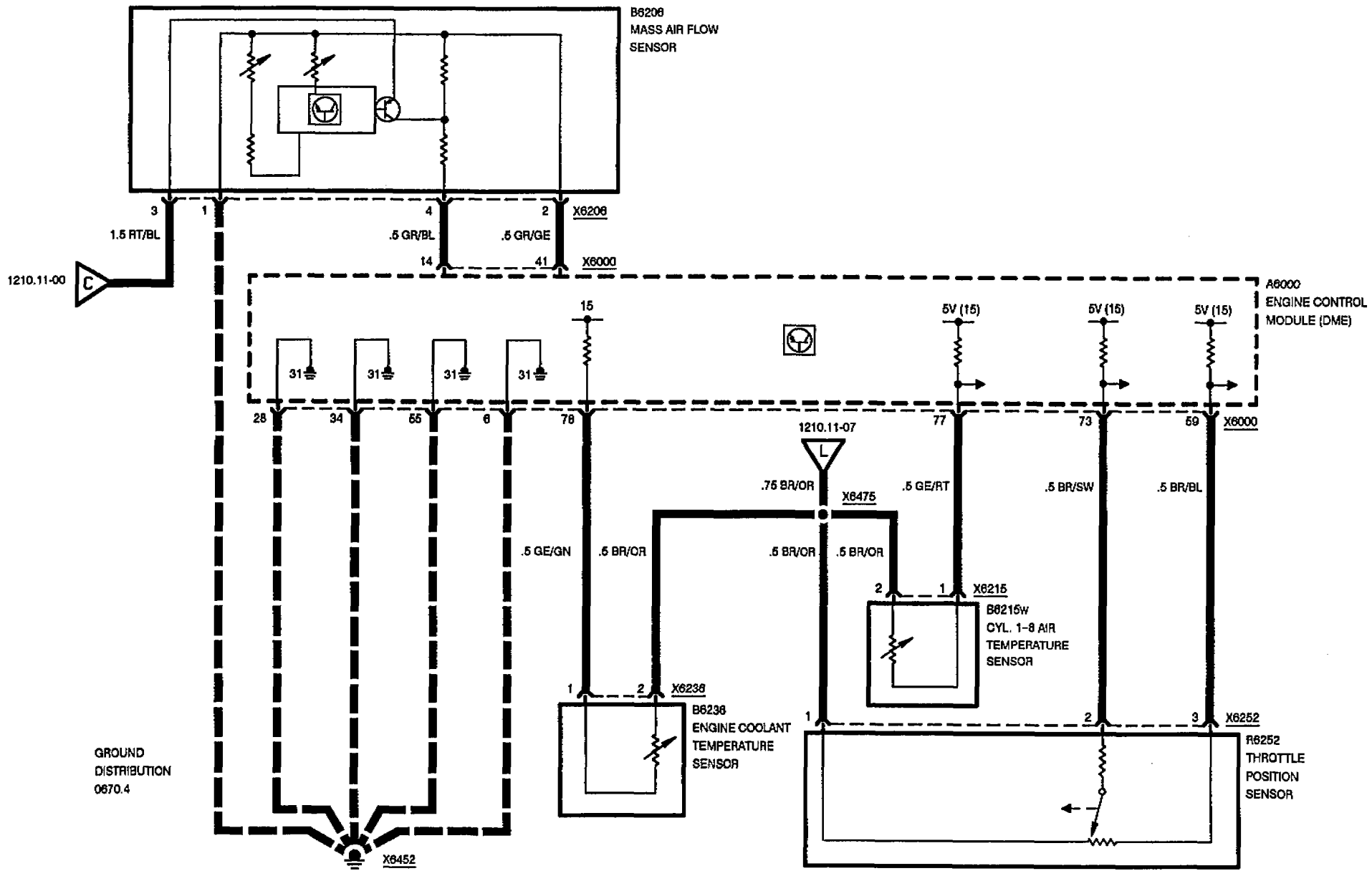
1210.11-05

1994



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

## SENSORS

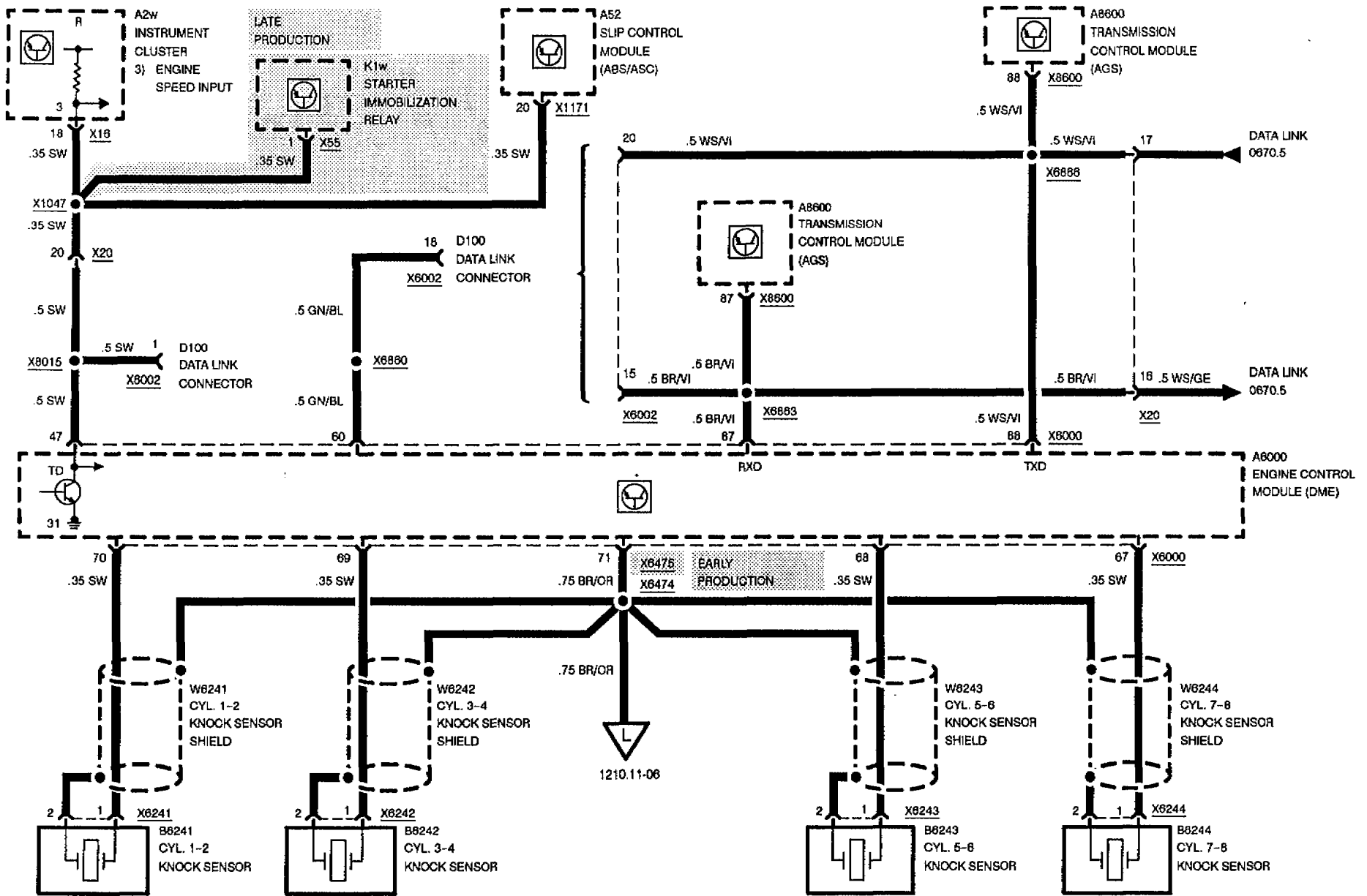


12/94  
1210.11-06  
1994



**BMW 5 ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)**

**DATA LINK, KNOCK SENSORS**

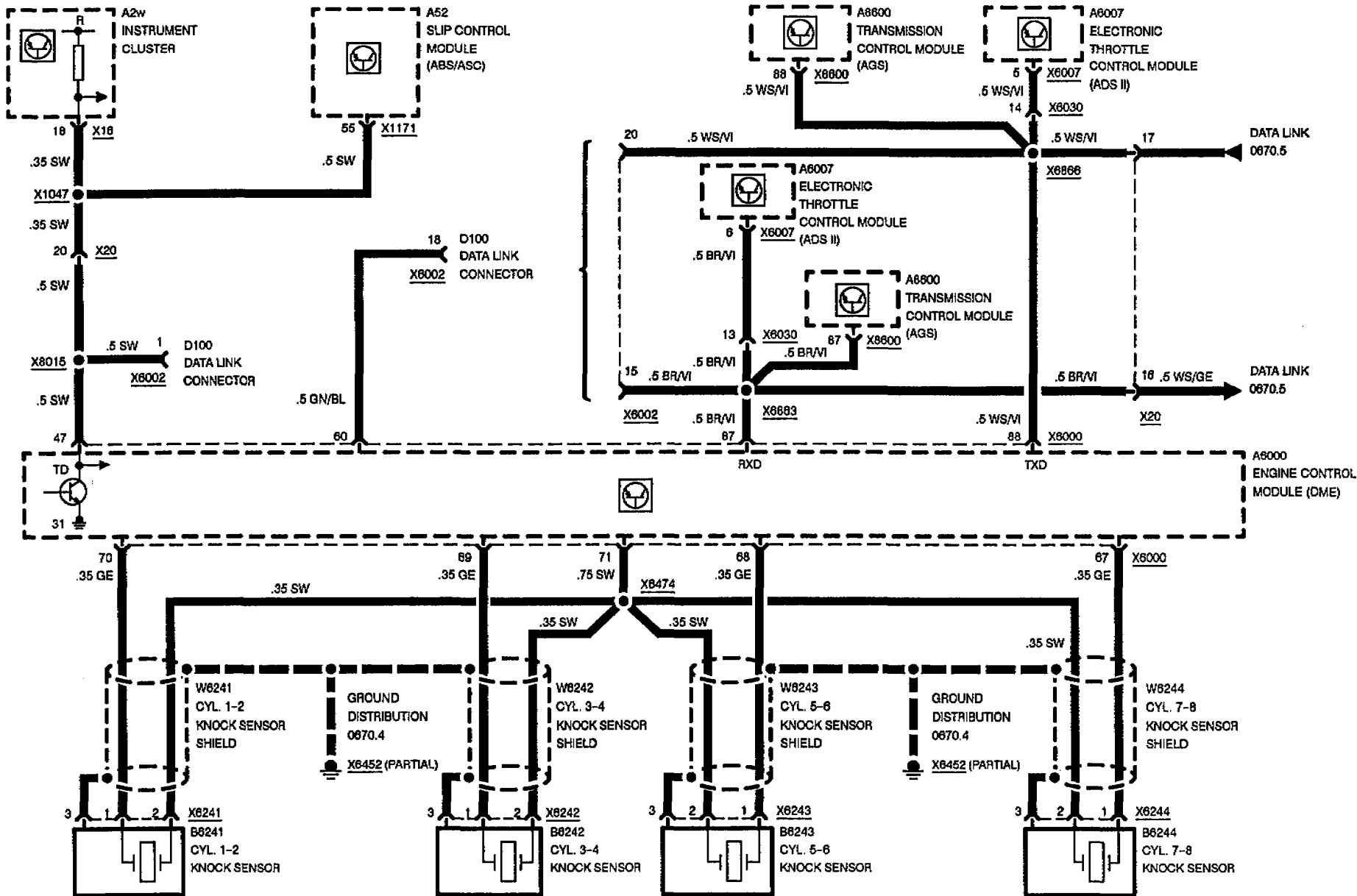


12/94

1210.11-07

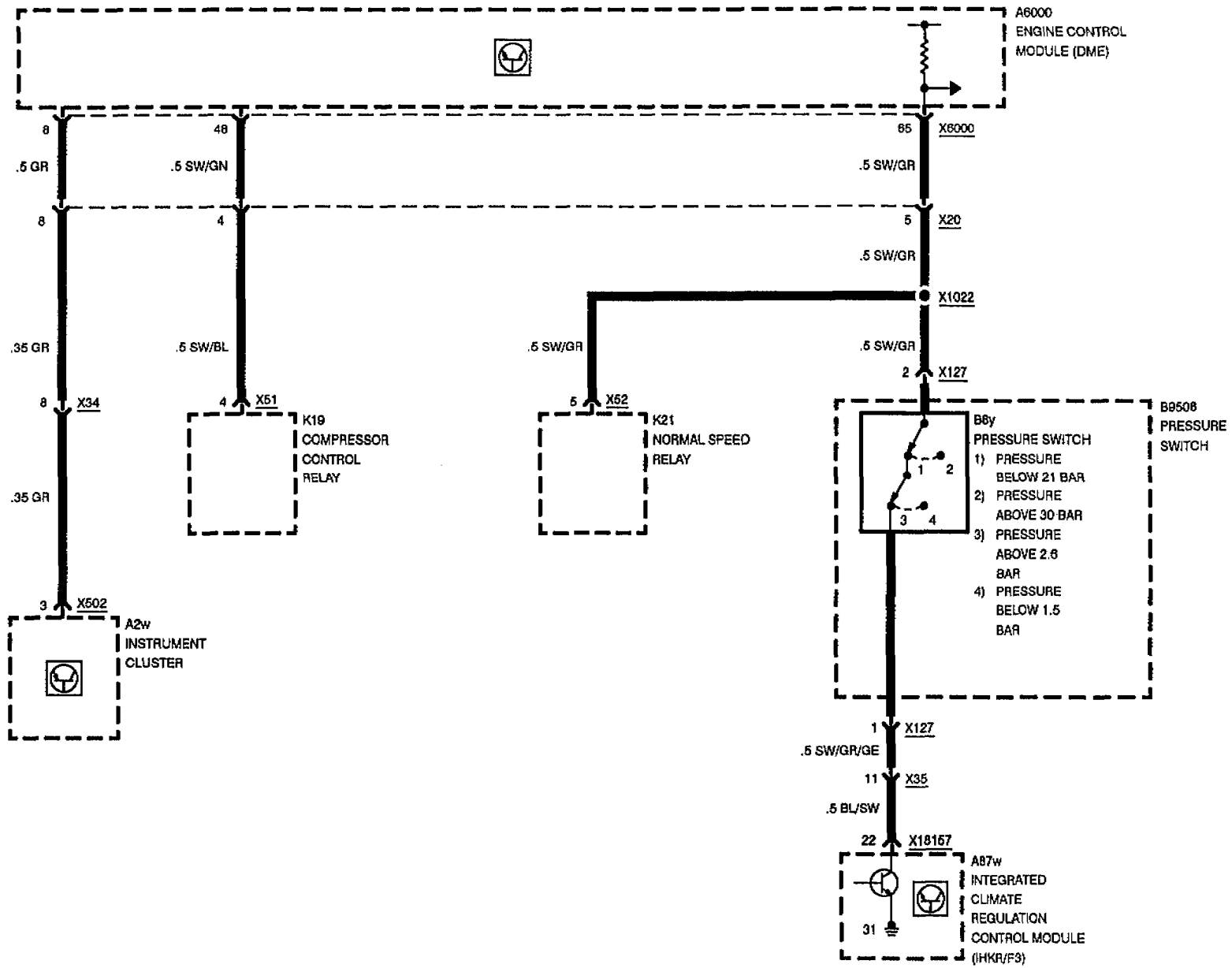
1994

**BMW 5 ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60) SOP 02/93**



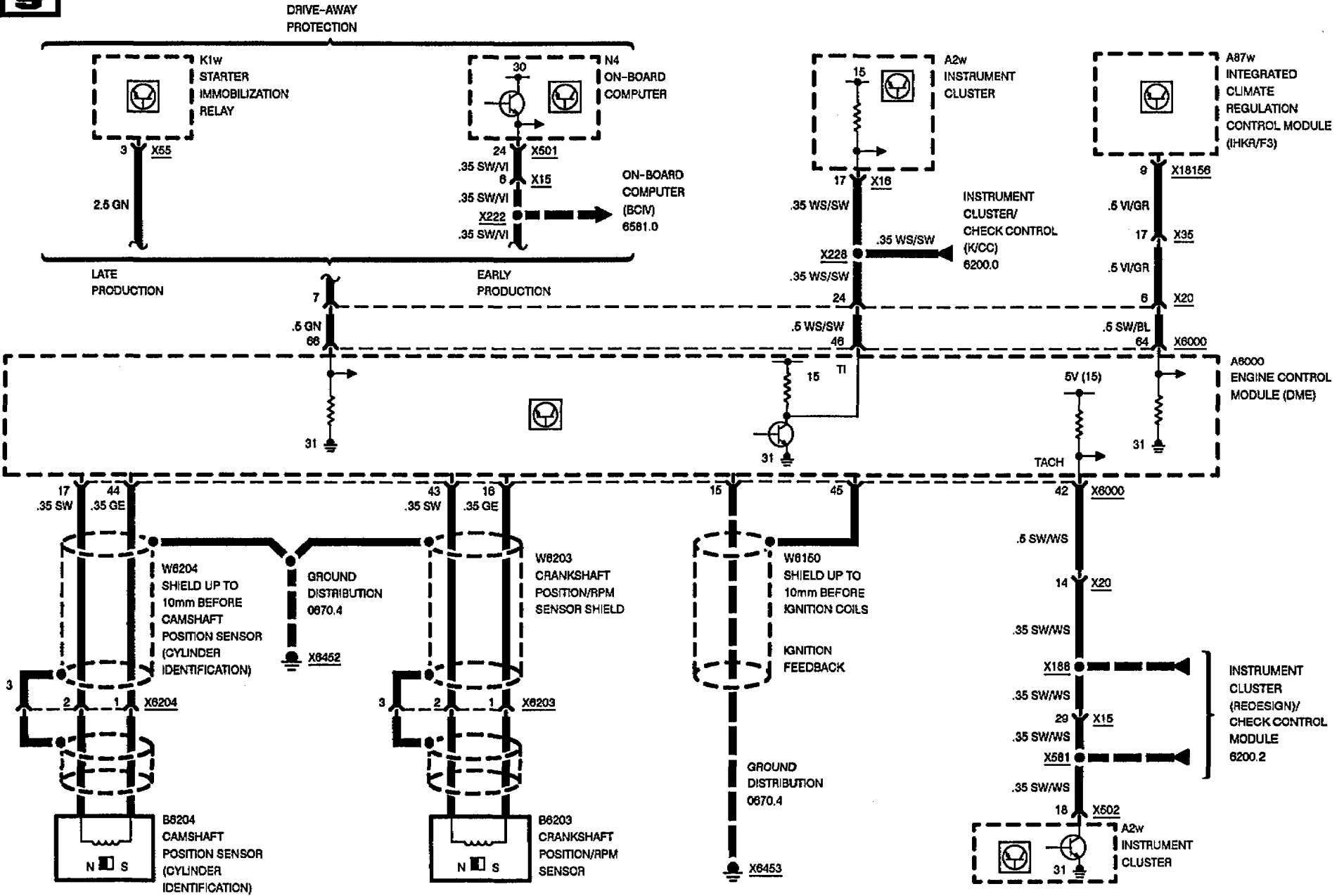


# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

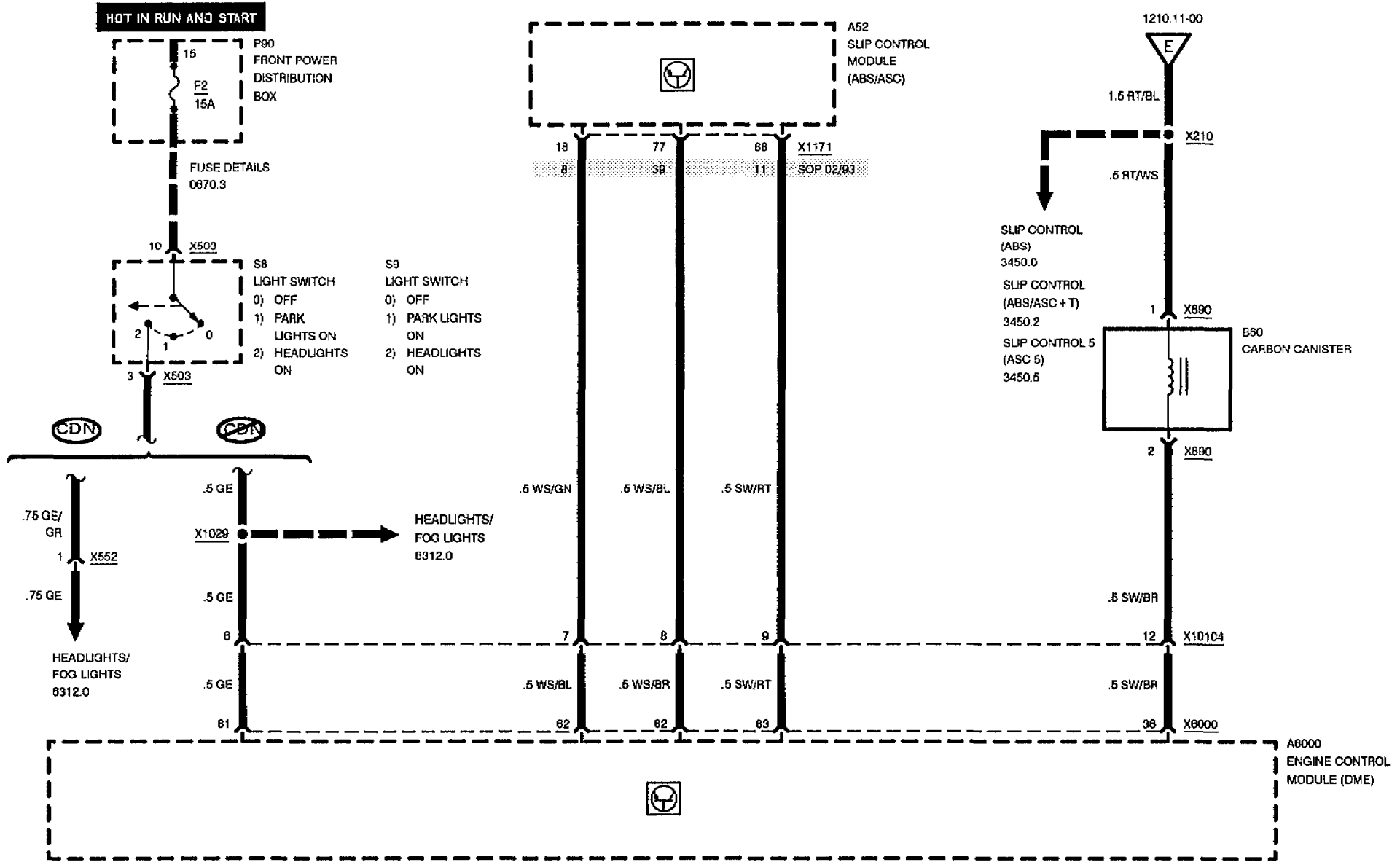




# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)



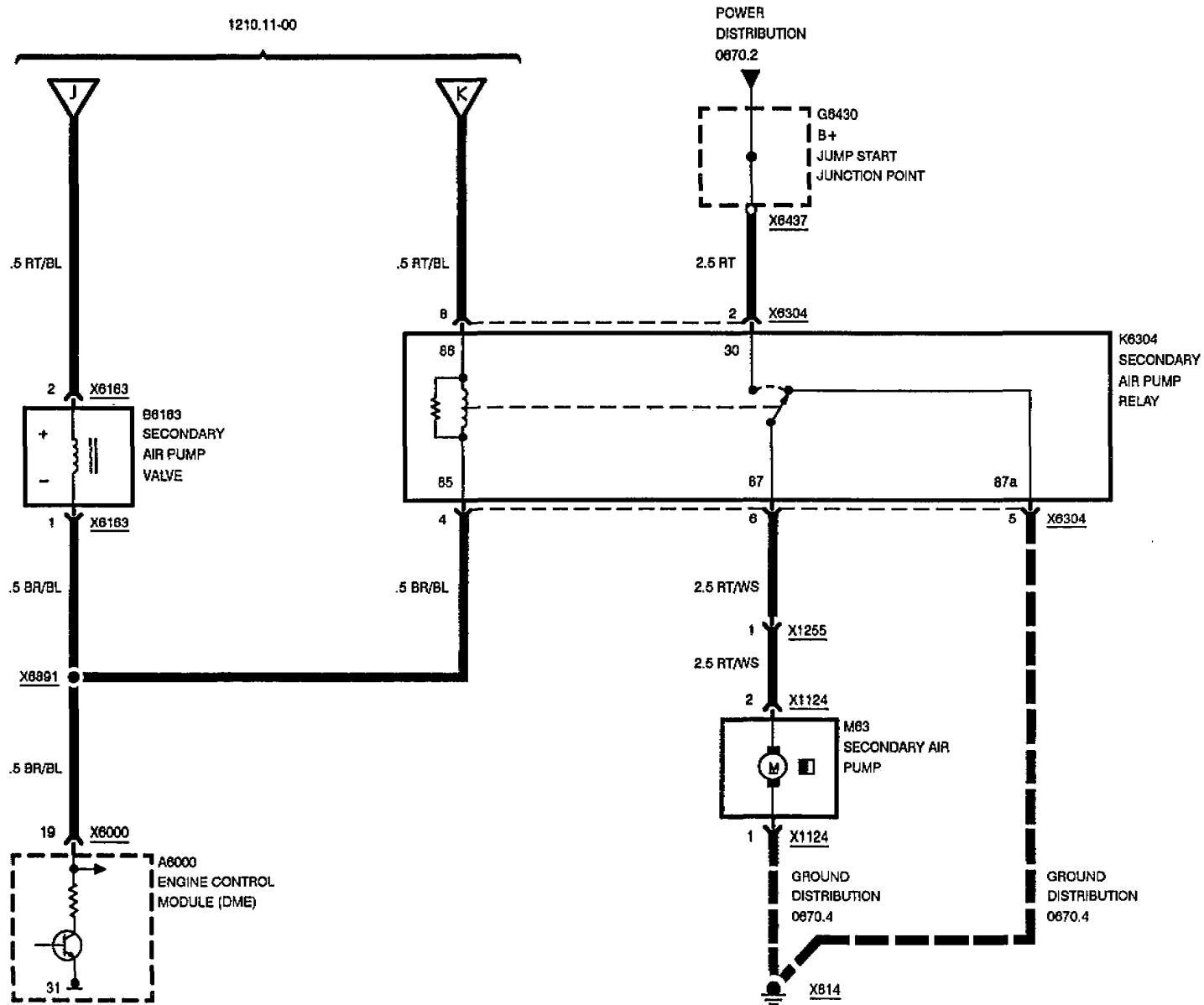
# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)





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

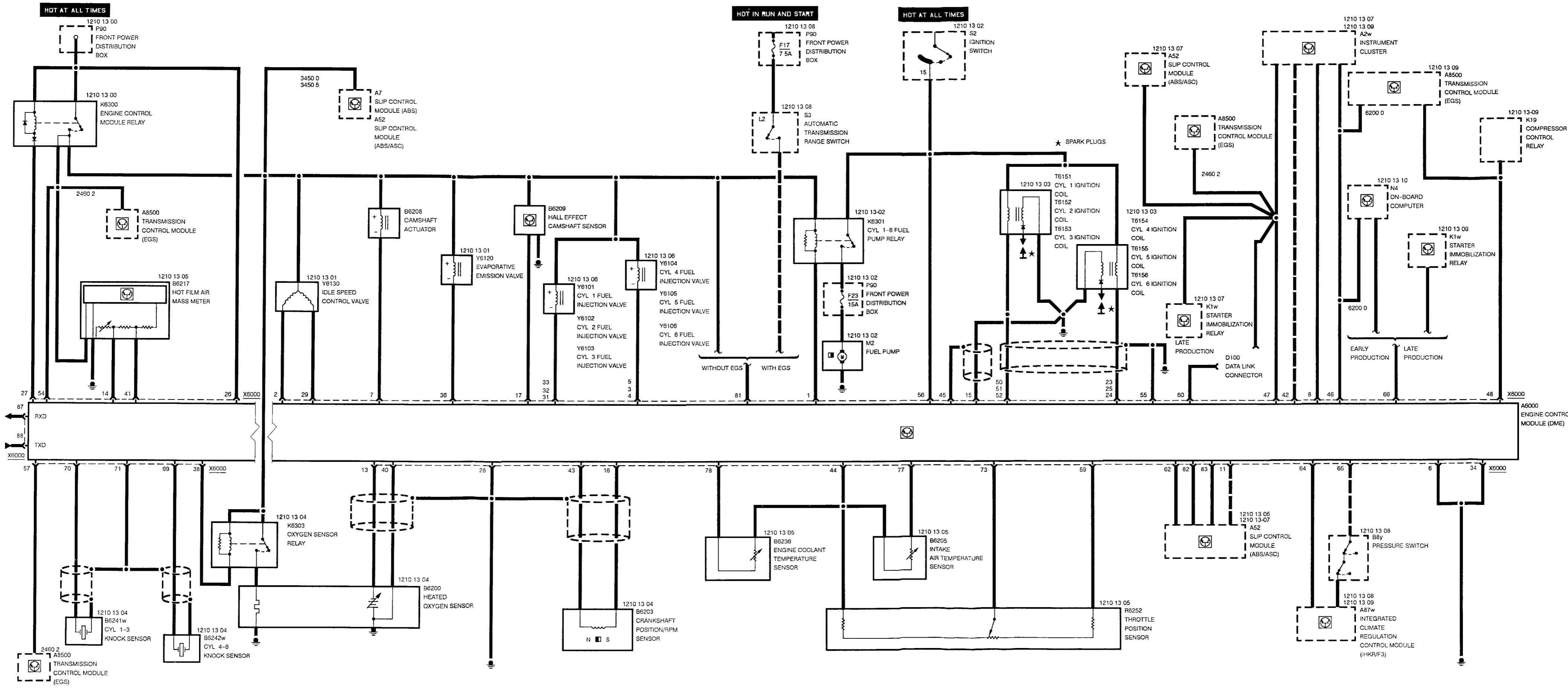
530i/t LATE PRODUCTION

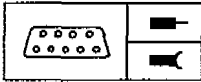


12/94

1210.11-12

1994





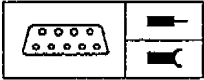
## Pin Assignments

### 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	Instrument cluster
9		Not used	
10		Not used	
11	A	Throttle valve position	Slip control module (ABS/ASC)
12		Not used	
13	E	Oxygen sensor signal	Heated oxygen sensor
14	A	Hot film air mass meter	Hot film air mass meter
15	M	Ground	Ground point
16	E	Crankshaft RPM sensor + signal	Crankshaft RPM sensor
17	E	Crankshaft 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	Terminal 30 voltage supply	B + junction point
27	A	Engine control module relay control	Engine control module relay
28	M	Ground for electronics and shielding of sensors	Ground point

E = Input, A = Output, M = Ground

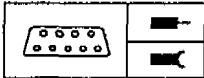




## Pin Assignments

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	Evaporation emission valve control	Evaporative emission valve
37		Not used	
38	A	Oxygen sensor, heater control	Oxygen sensor relay
39		Not used	
40	M	Oxygen sensor signal ground	Heated oxygen sensor
41	E	Hot film air mass meter	Hot film air mass meter
42	E	Vehicle speed signal TD	Instrument cluster
43	E	Crankshaft RPM sensor – signal	Crankshaft RPM sensor
44	A	Ground for sensors	Engine intake air temperature sensor, engine coolant temperature sensor, and throttle position sensor
45	A	Ground	Shield ignition
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
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
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch
57	E	Ignition timing intervention	Transmission control module (EGS)

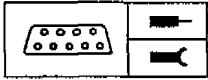
E = Input, A = Output, M = Ground



## 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	A	Throttle valve angle position signal	Slip control module (ABS/ASC + T)
63		Not used	
64	E	Compressor signal	Integrated climate regulation control module
65	E	A/C pressure signal	Pressure switch
66	E	Drive-away protection signal (code)	On-board computer (Early Production) 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 shield	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	Transmission range switch
82	E	Throttle valve angle reduction	Slip control module (ABS/ASC + T)
83	E	Throttle valve angle increase	Slip control module (ABS/ASC + T)
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 diagnostic data line	Data link connector
88	E/A	TxD diagnostic data line	Data link connector

E = Input, A = Output, M = Ground

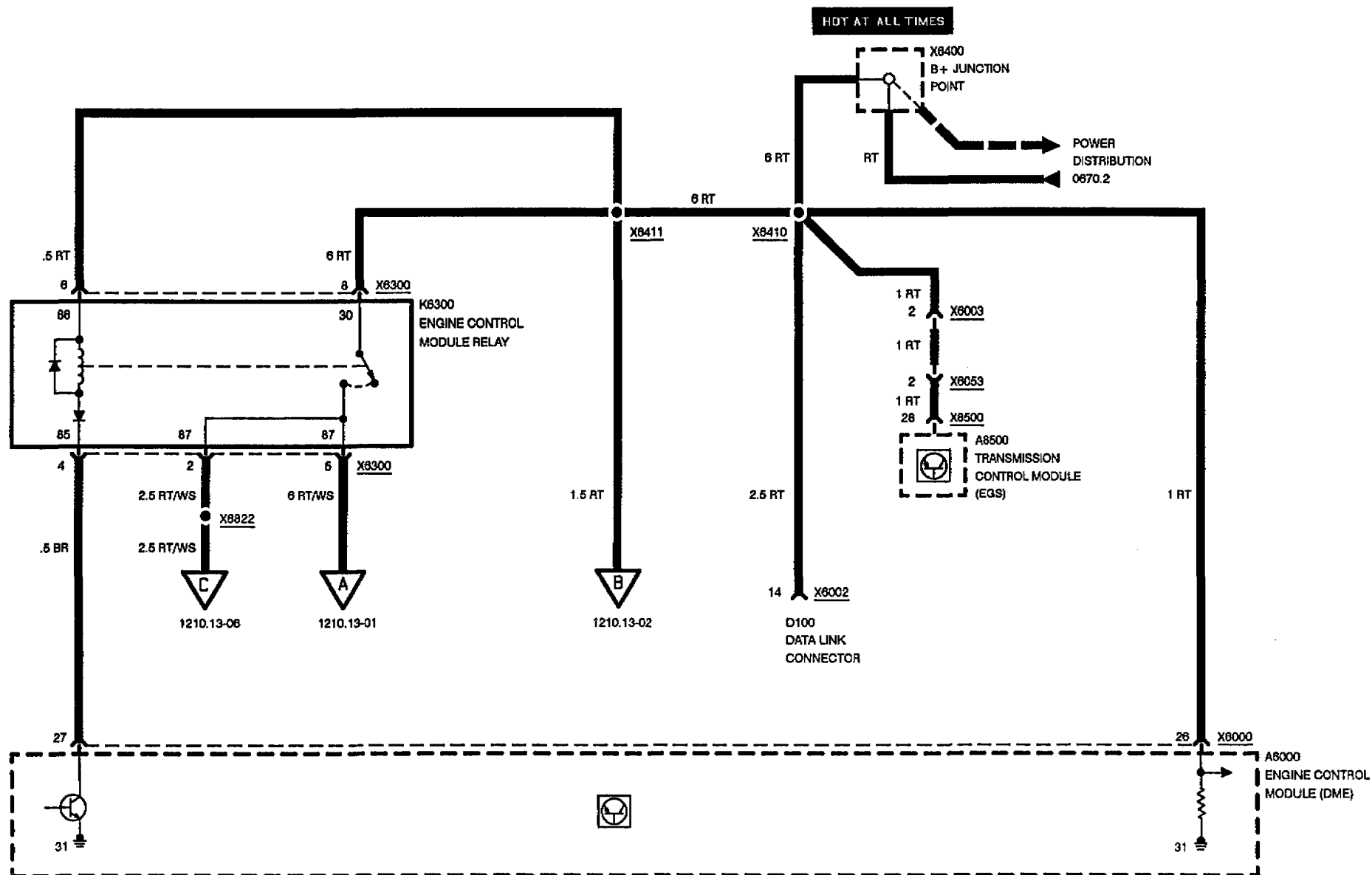
BMW  
**5**

1210.13



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

## POWER



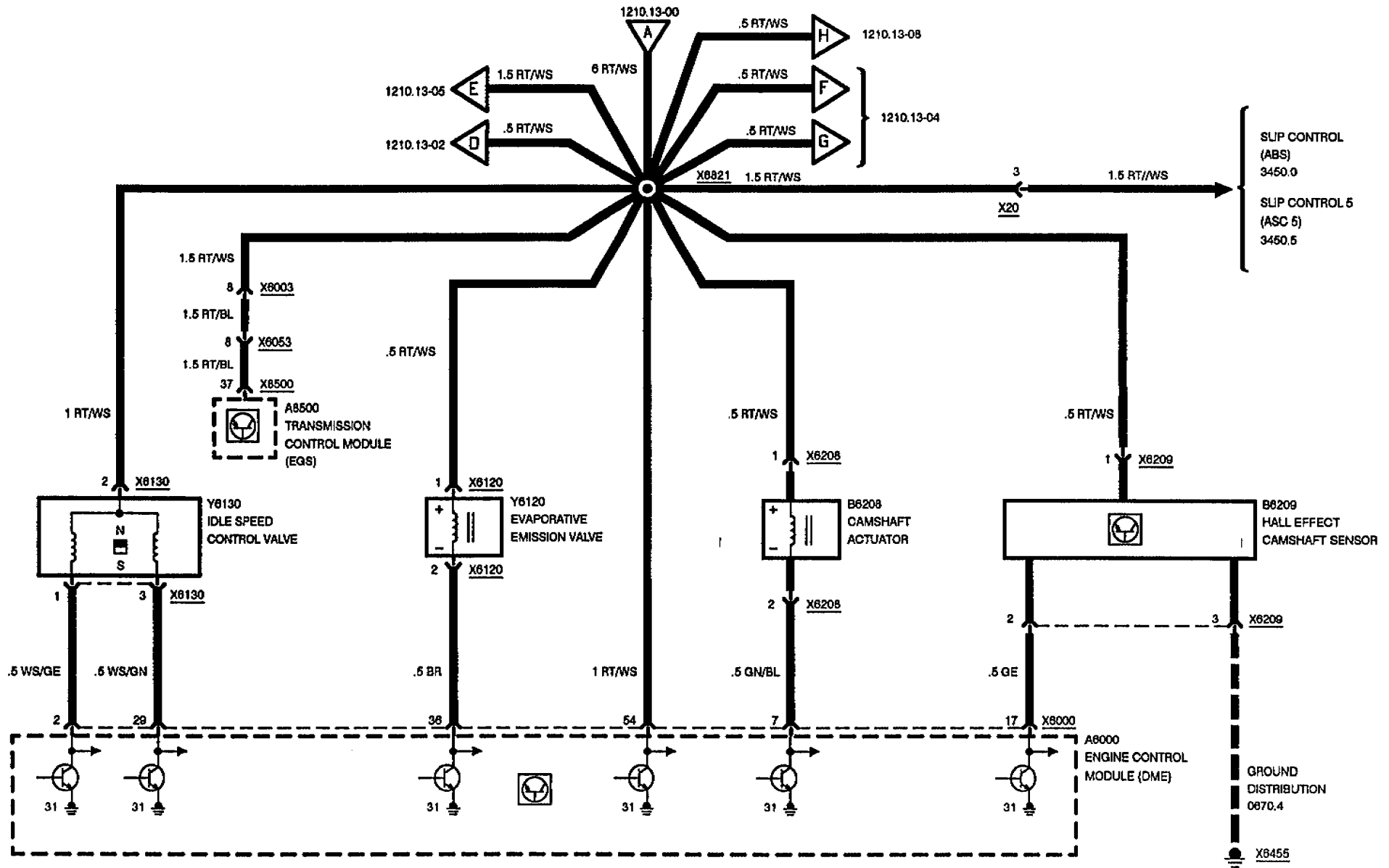
12/94

1210.13-00

1994



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



12/94

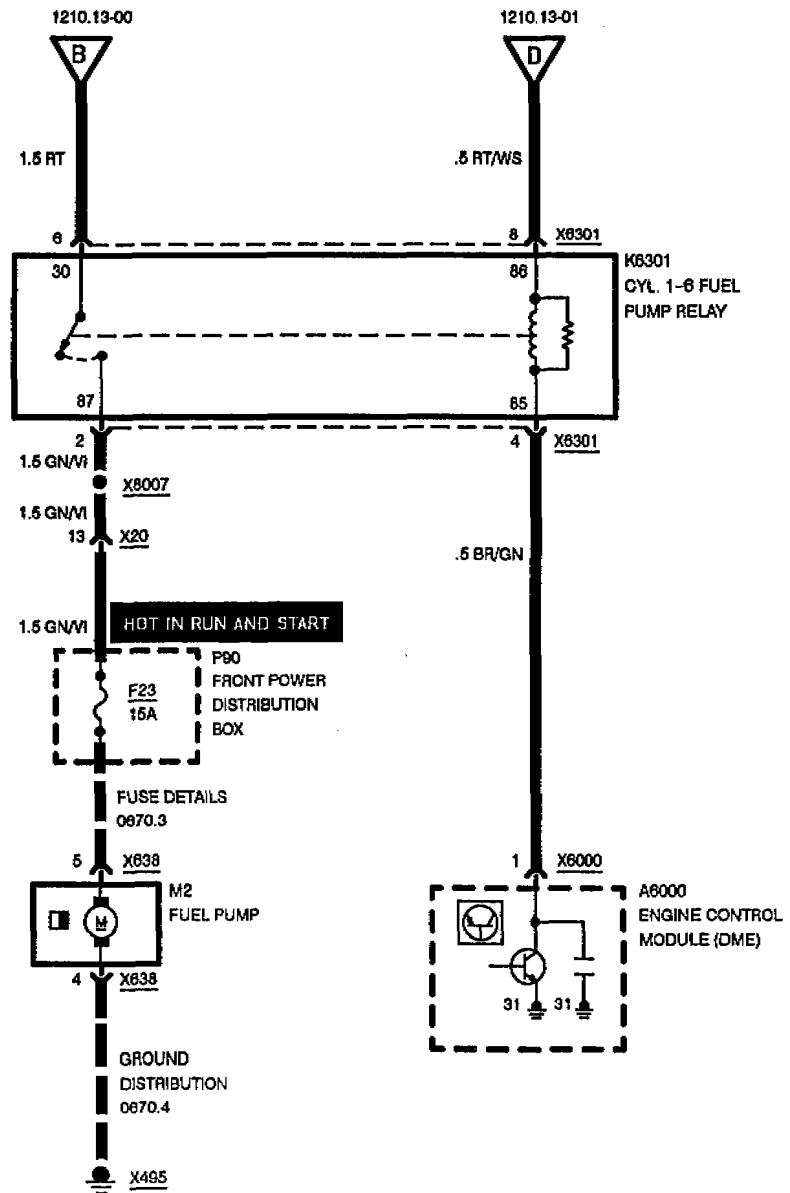
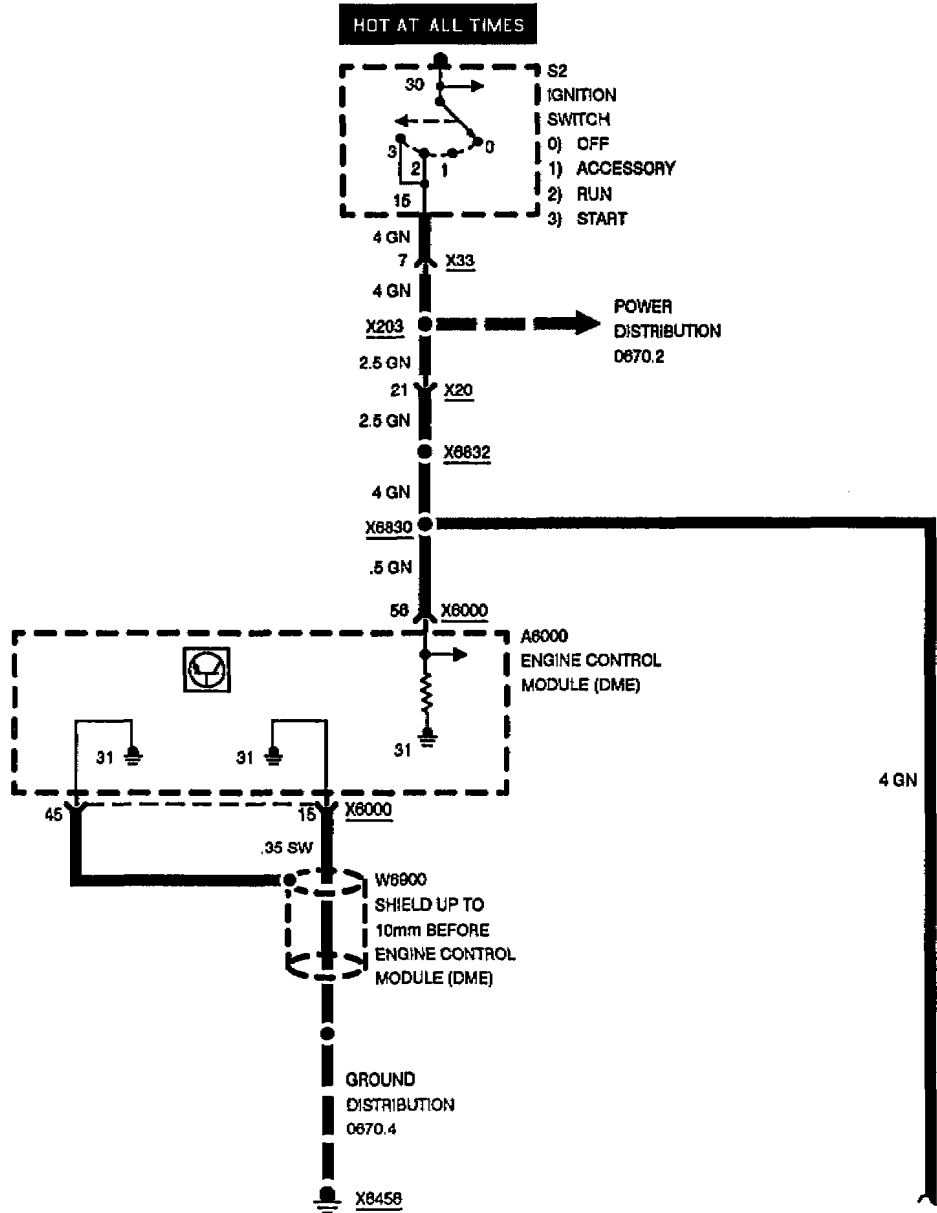
1210.13-01

1/94

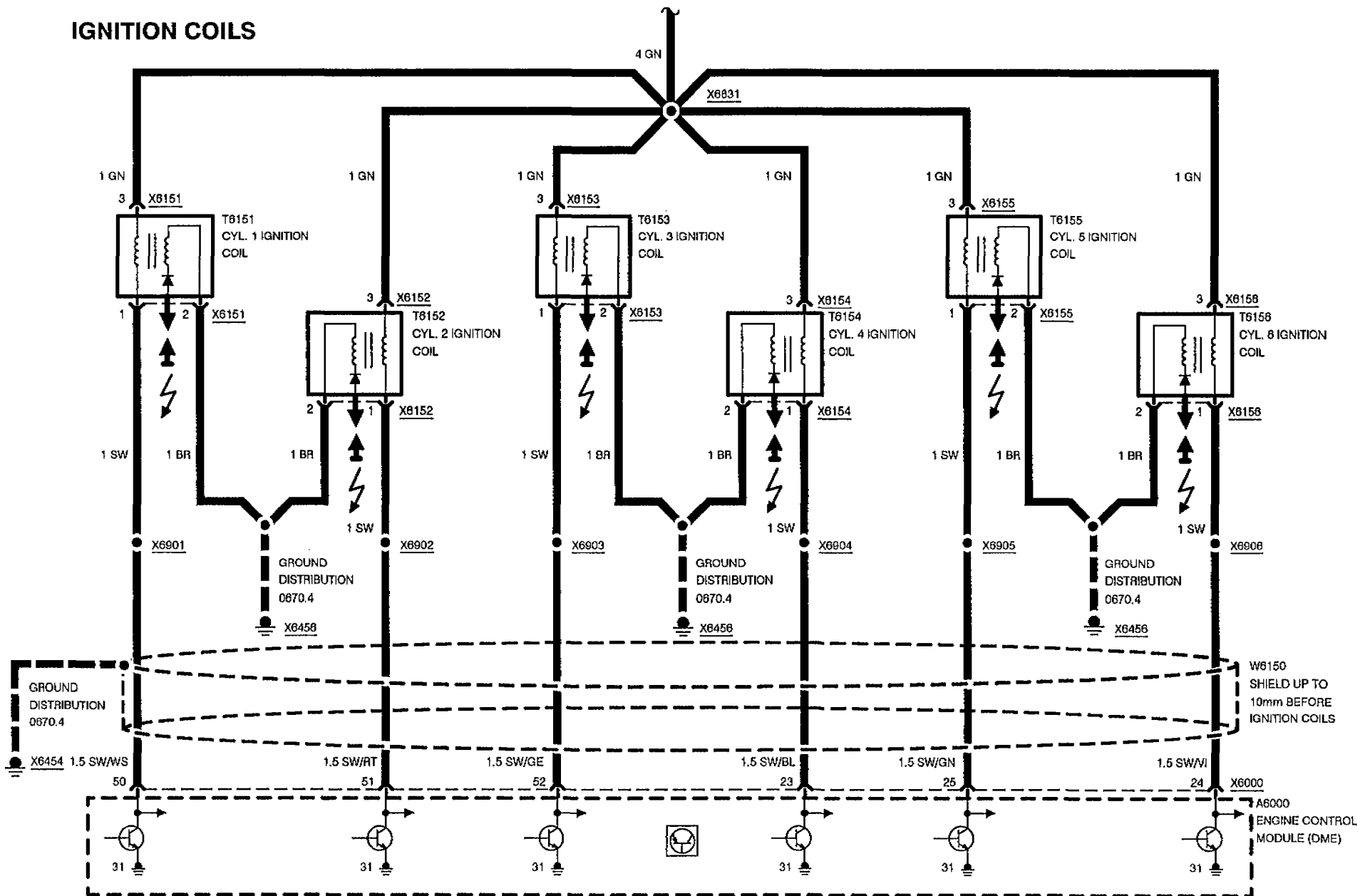


# ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

## FUEL PUMP



# IGNITION COILS

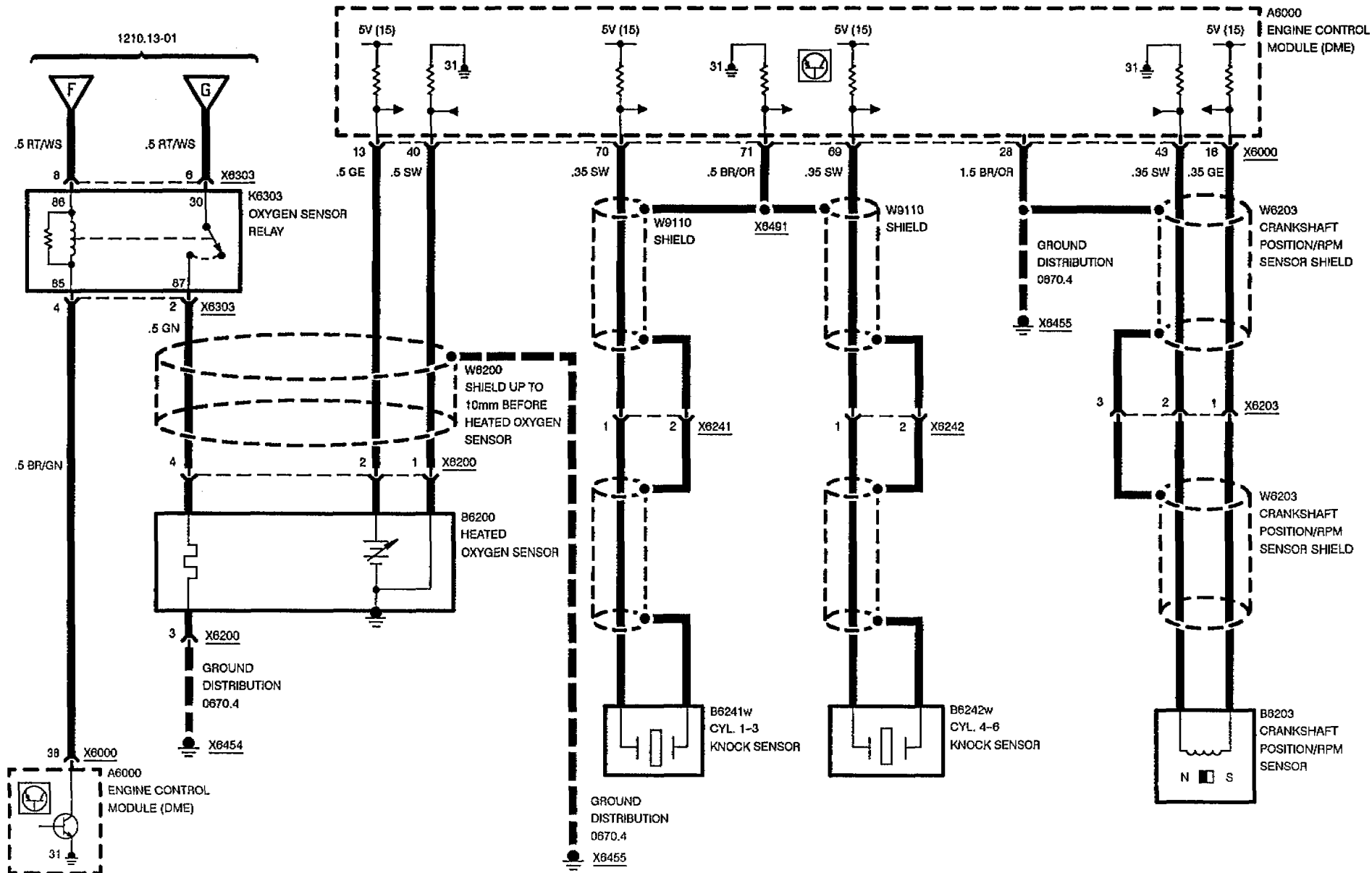




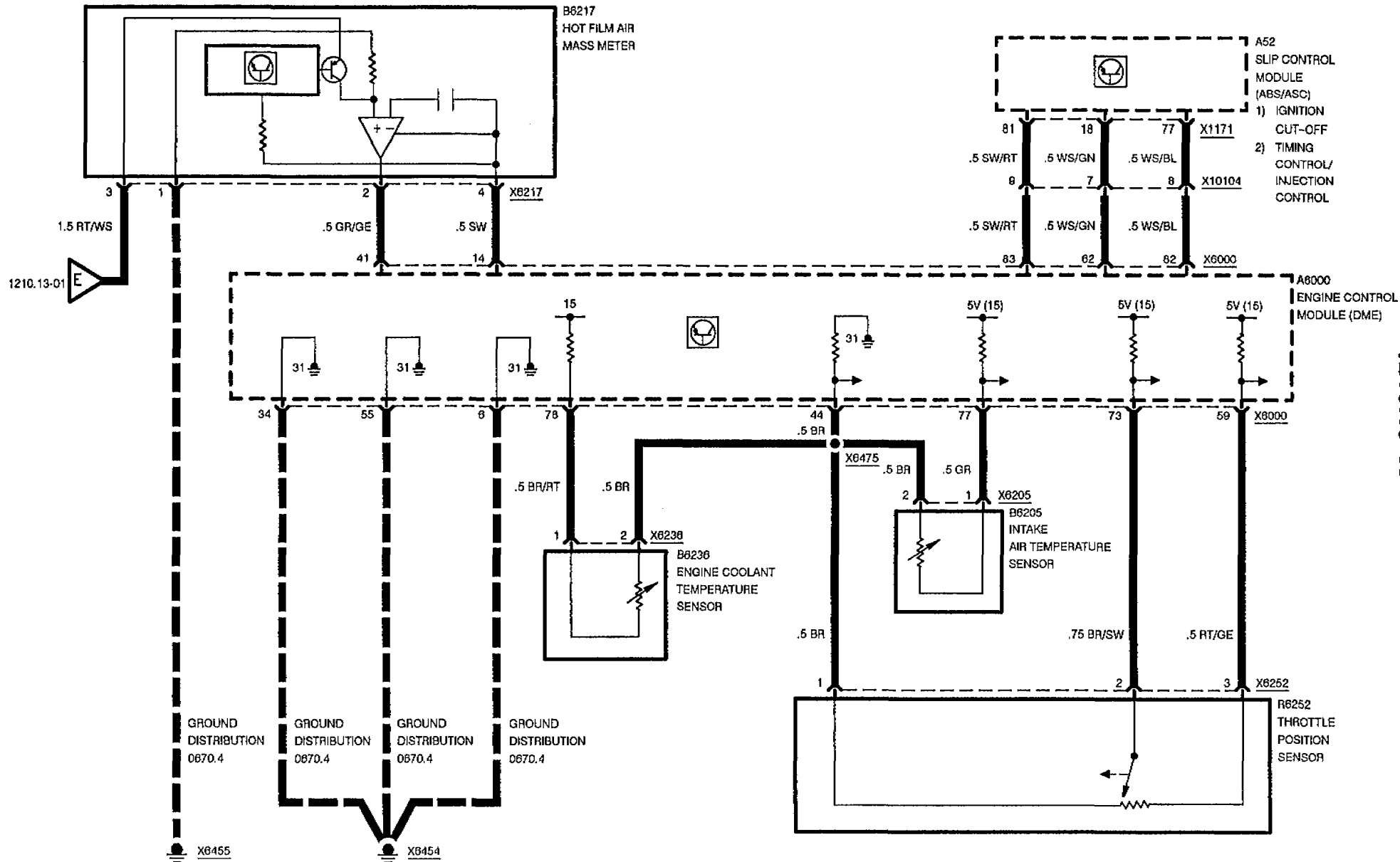


# ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

## SENSORS



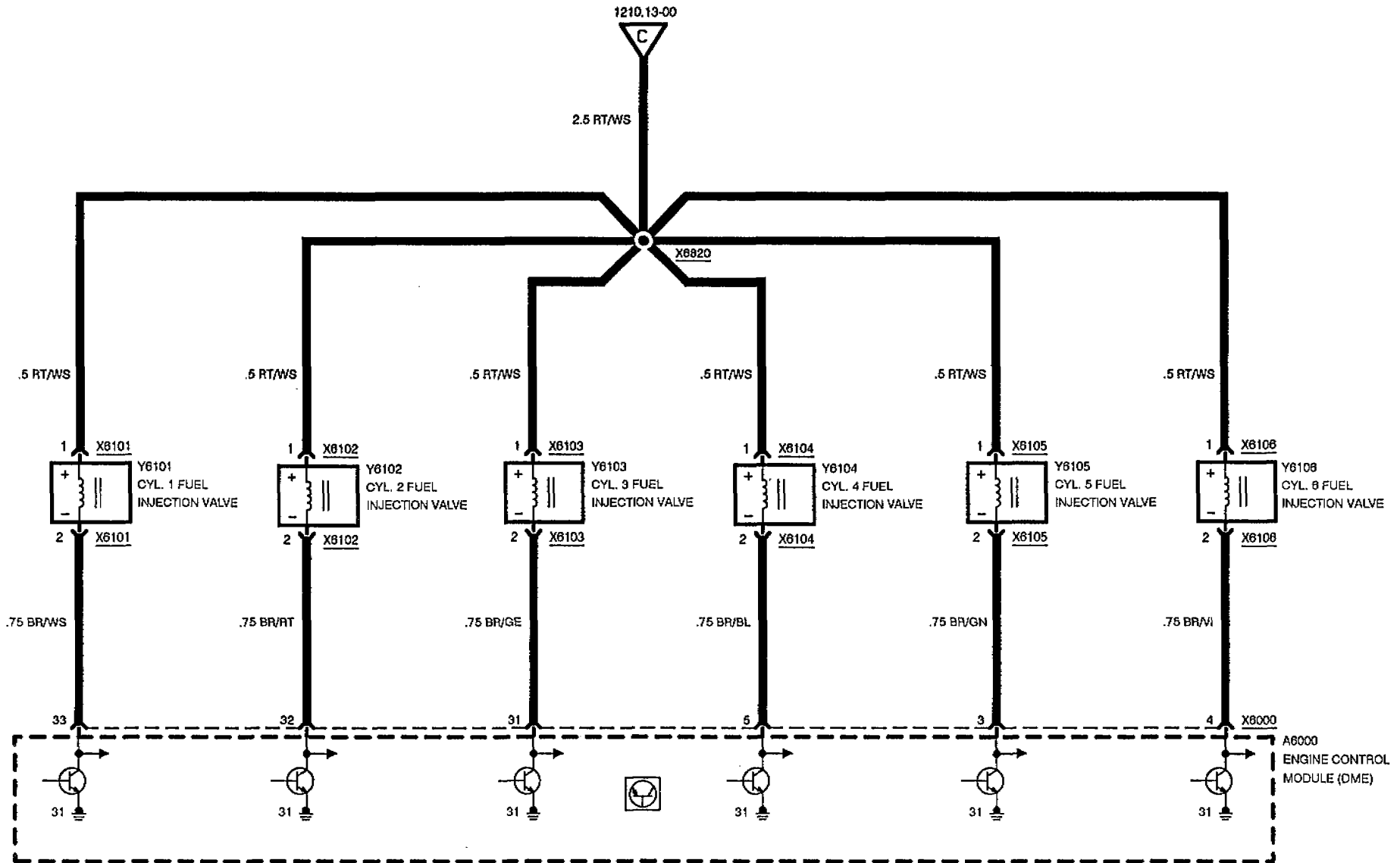
# ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)





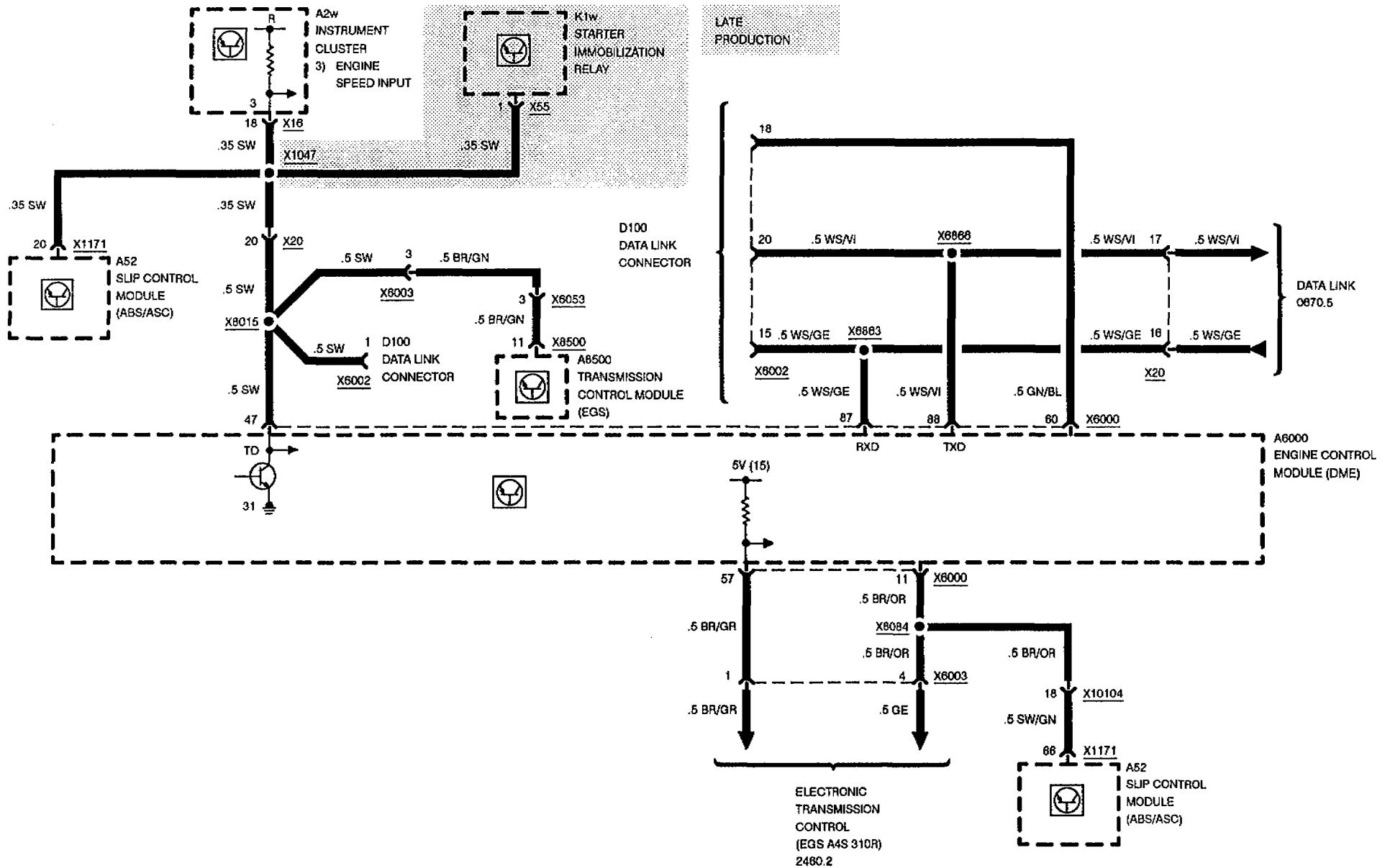
# ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

## FUEL INJECTION VALVES



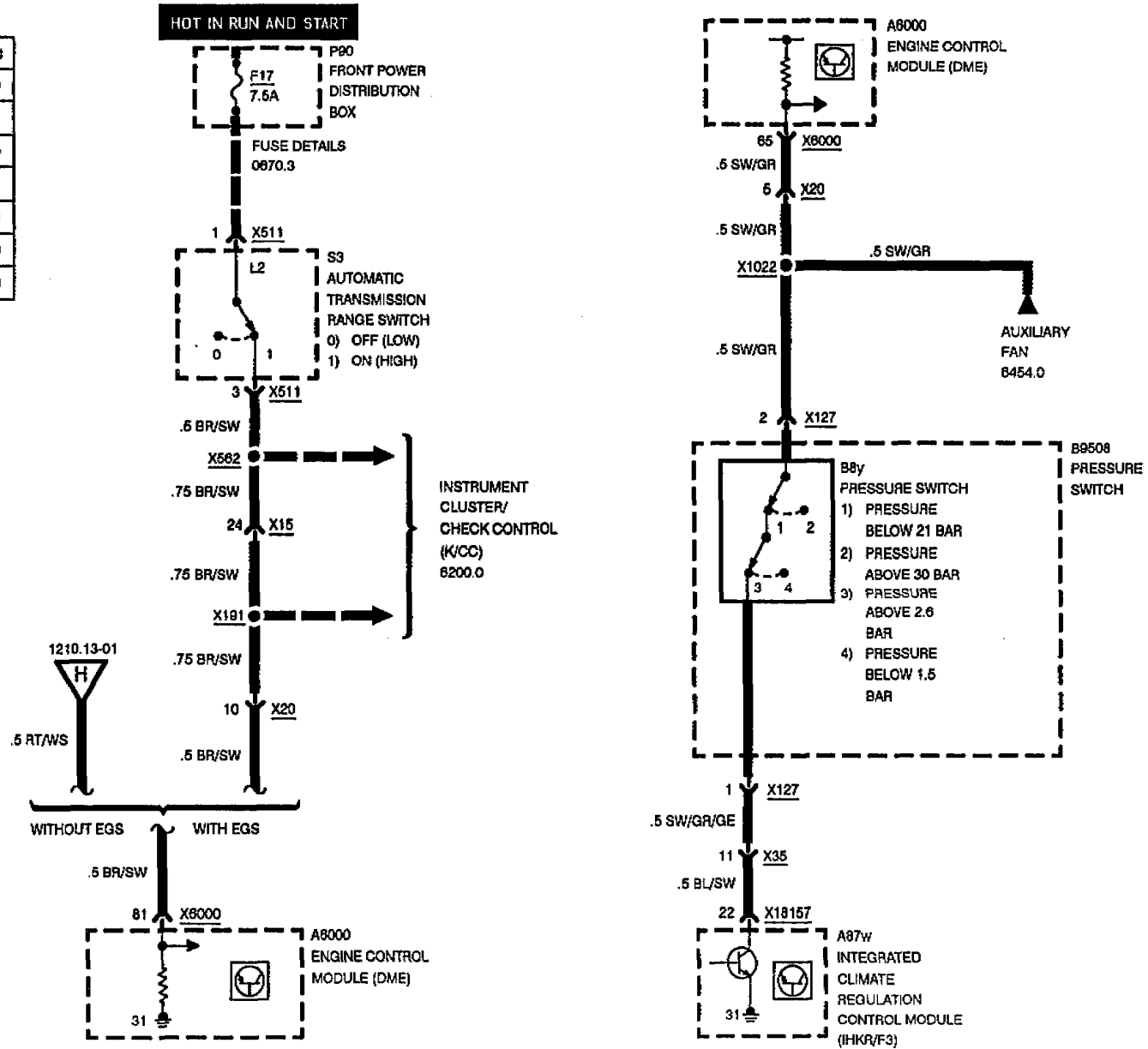


# ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)



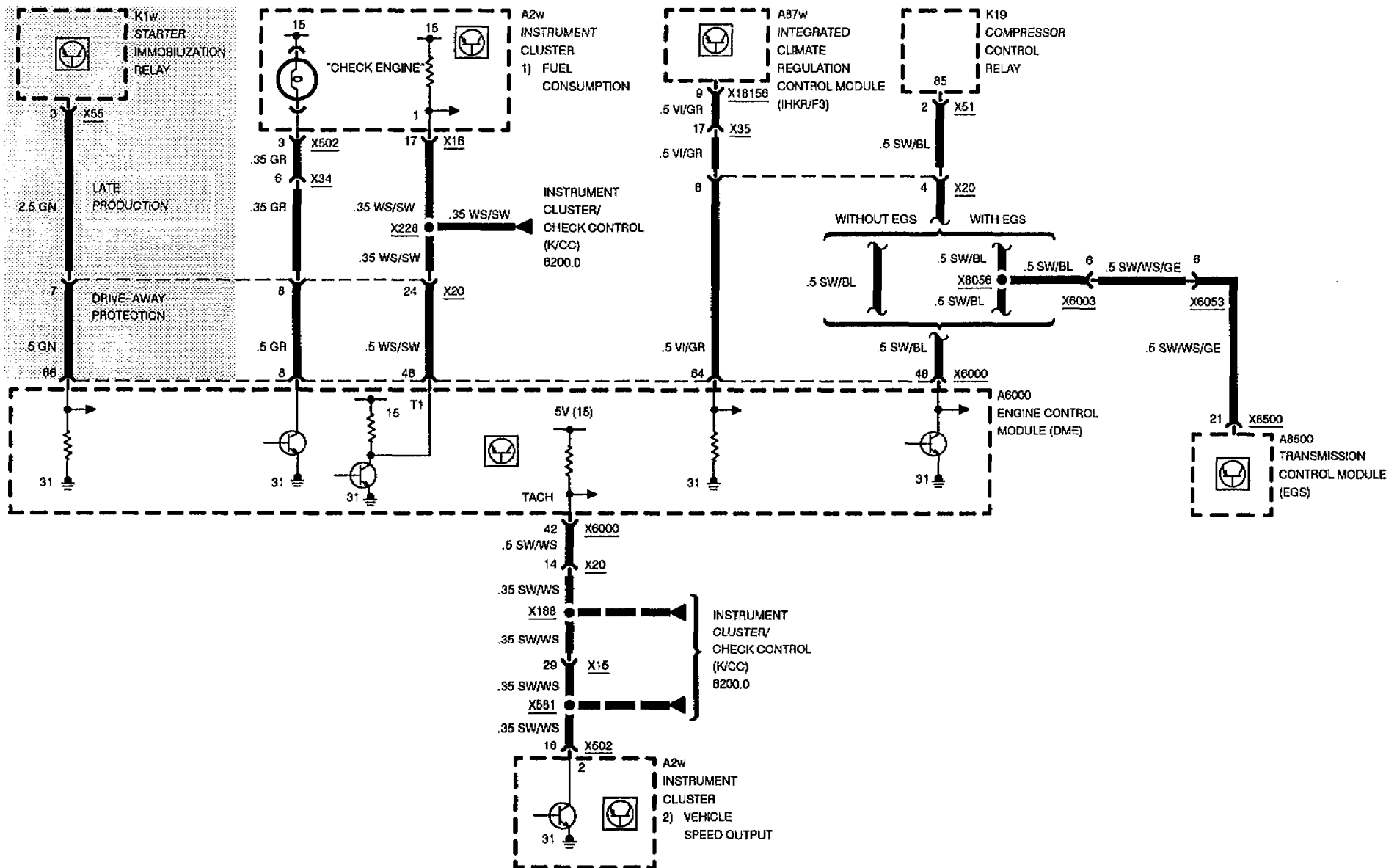
**ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)**

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





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

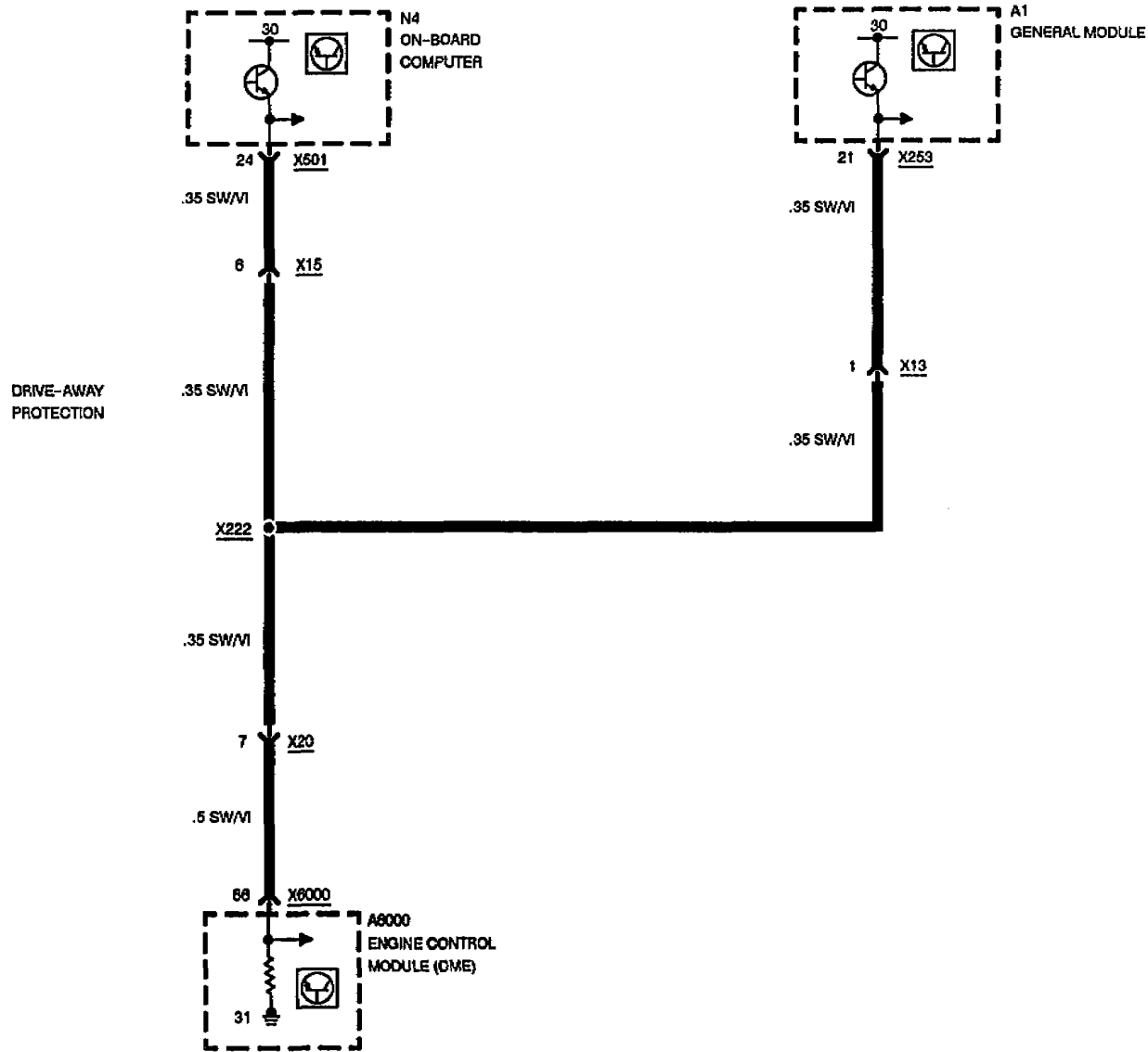




# ENGINE CONTROL SYSTEM (DME M3.3.1, 6-CYLINDER M50)

EARLY PRODUCTION

## INPUTS, DRIVE AWAY PROTECTION

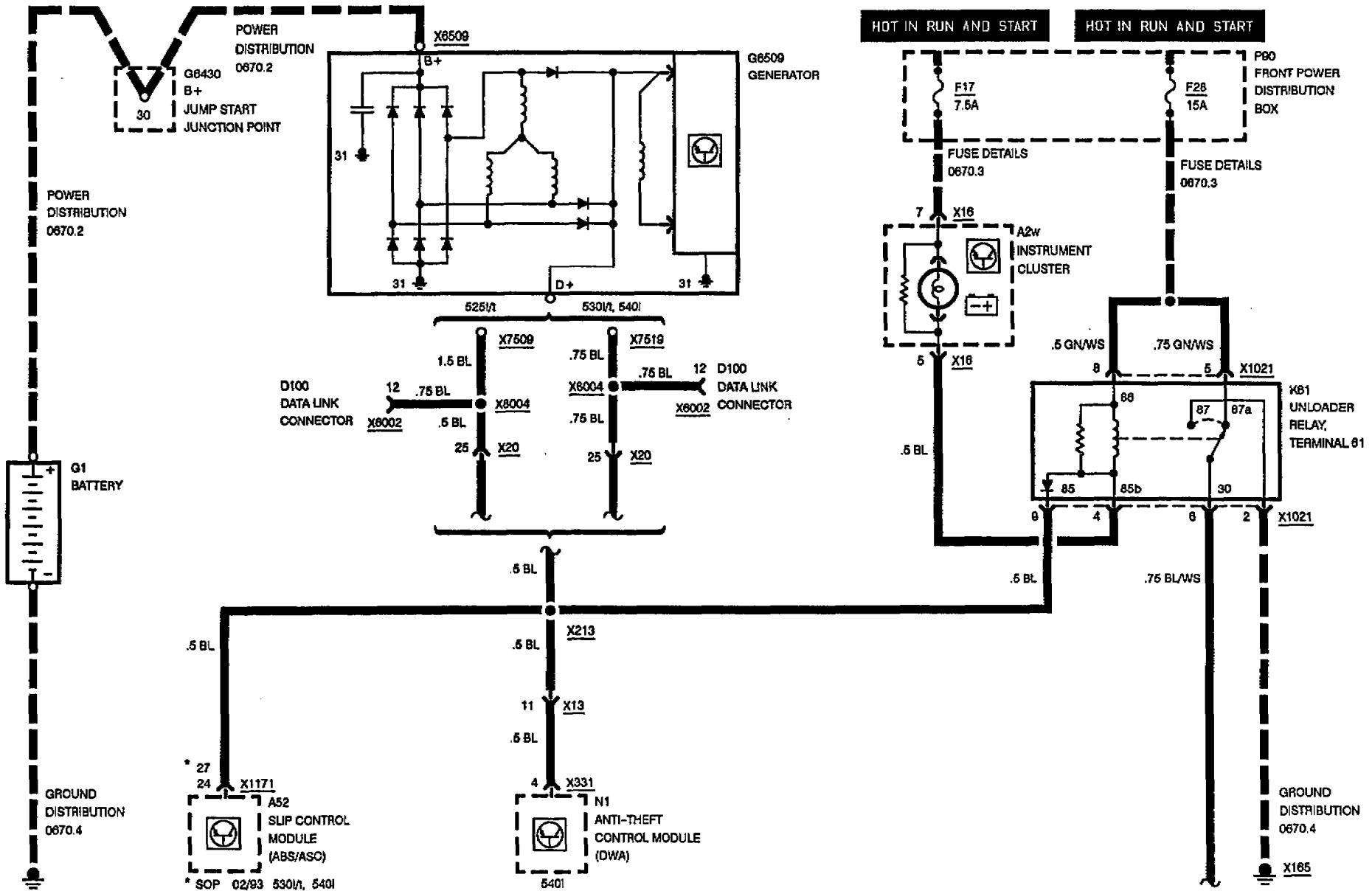


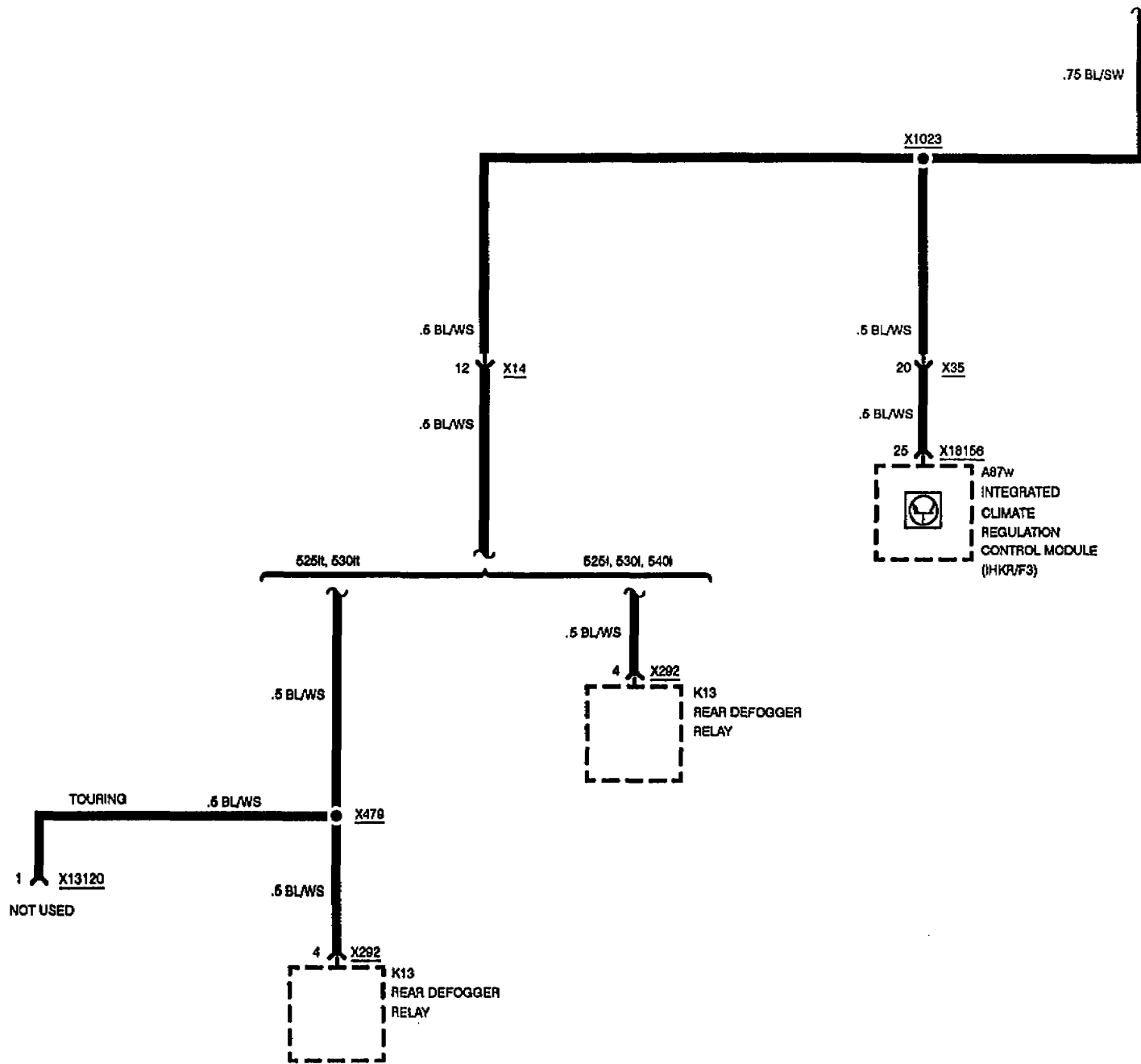
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# CHARGING SYSTEM







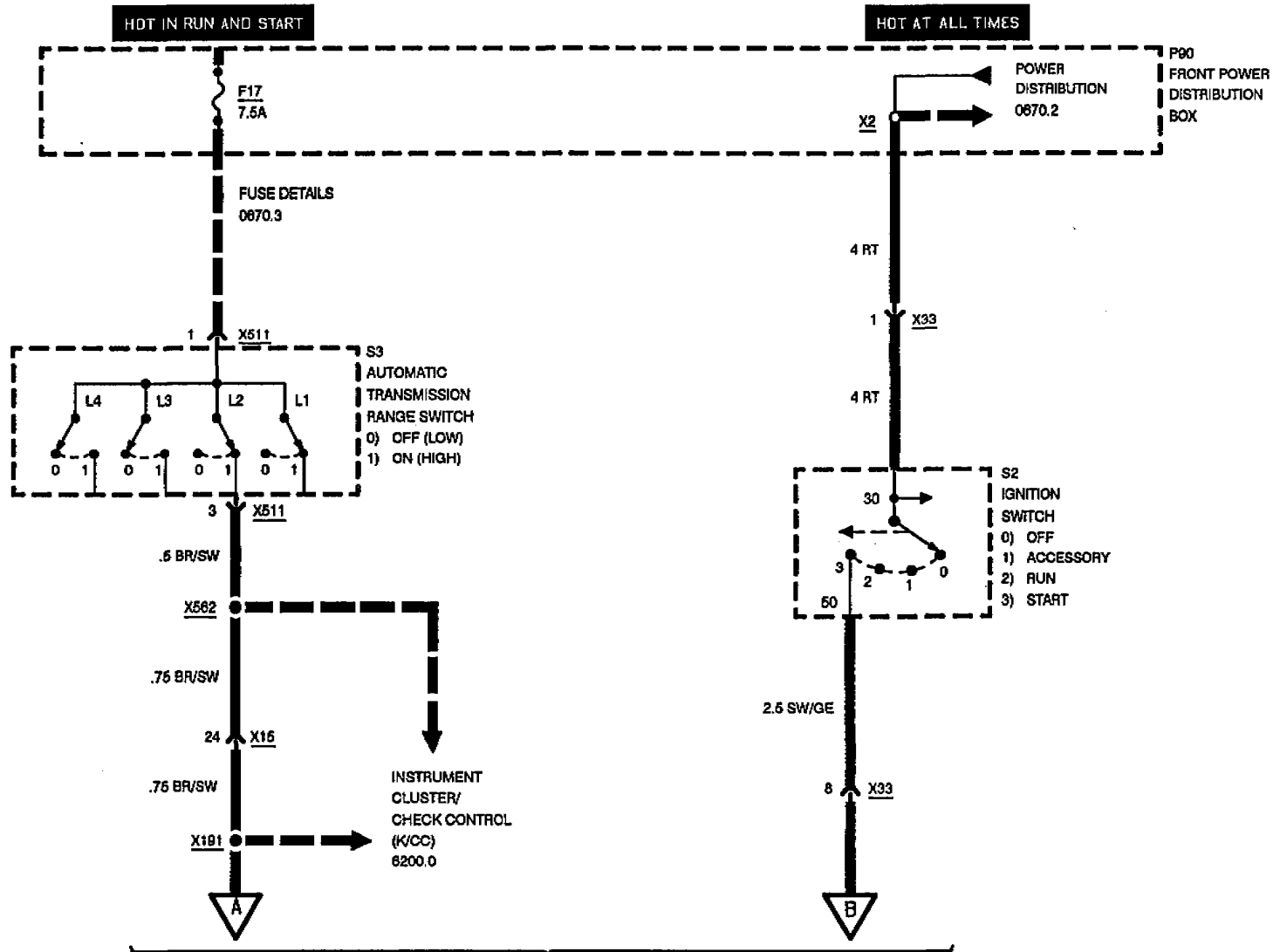
# START

AGS A5S 310Z  
AGS A5S 660Z

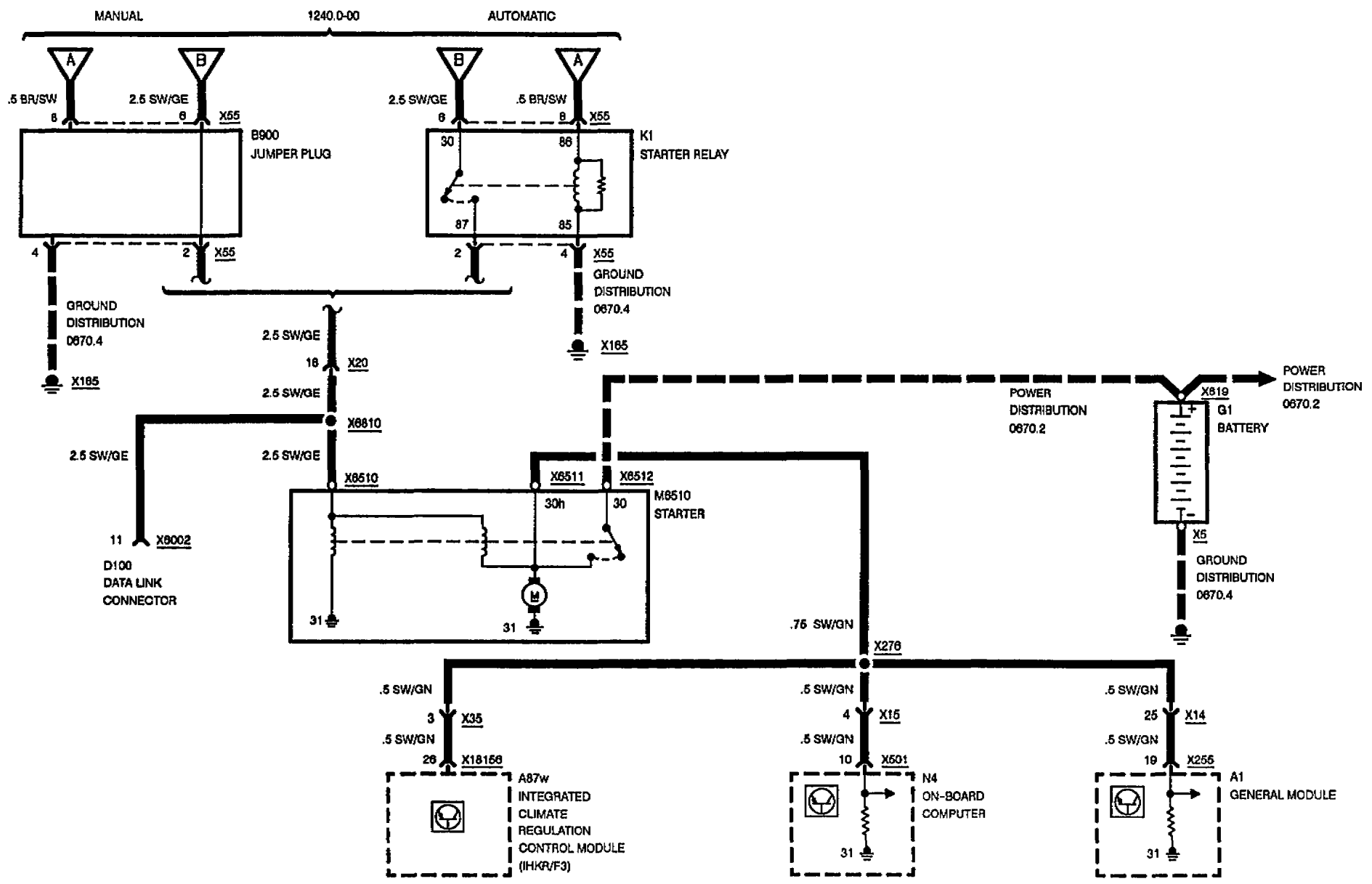
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0

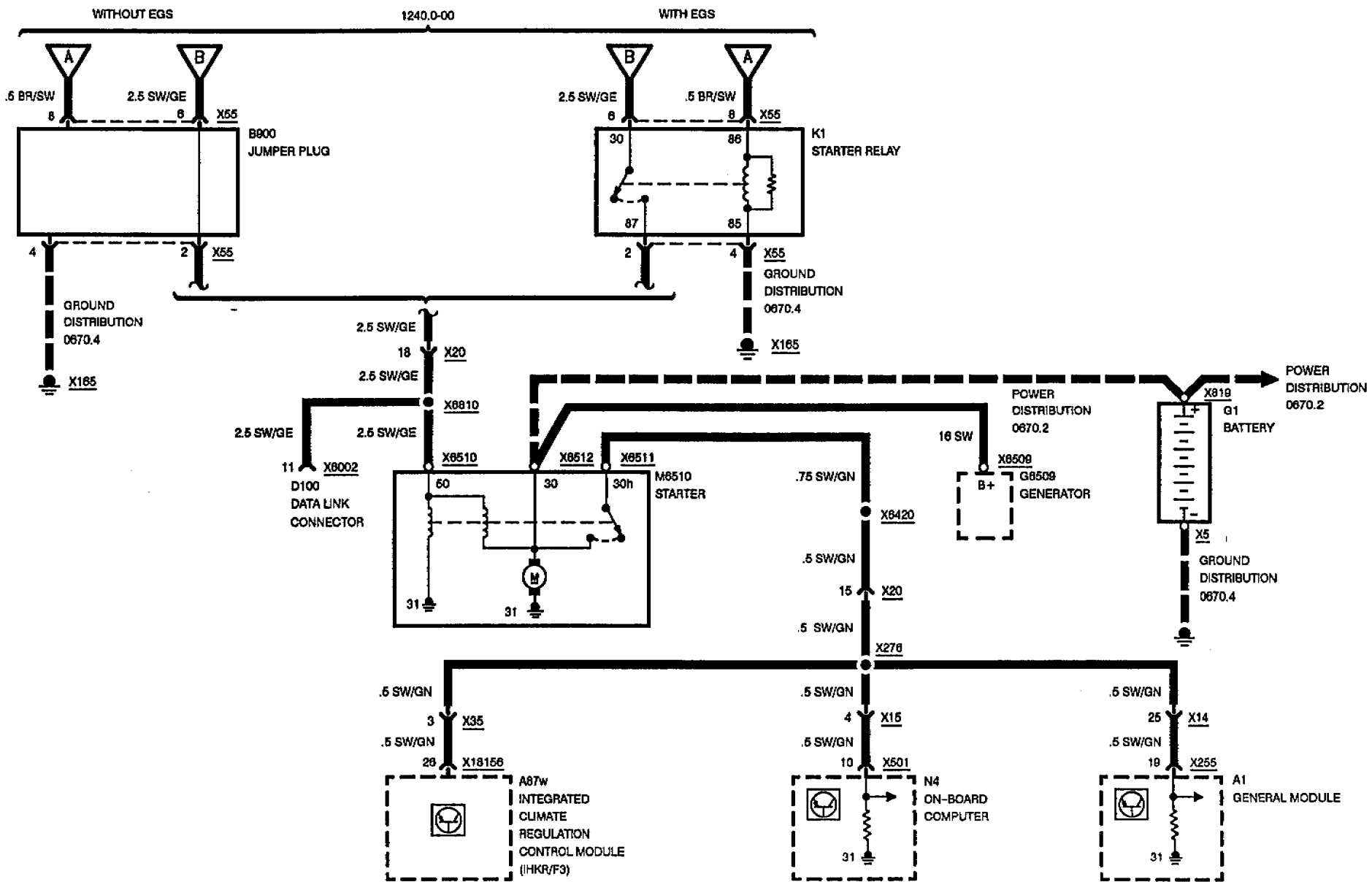
EQS A4S 310R

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



1240.0-01  
1240.0-02  
1240.0-03  
1240.0-04  
1240.0-05







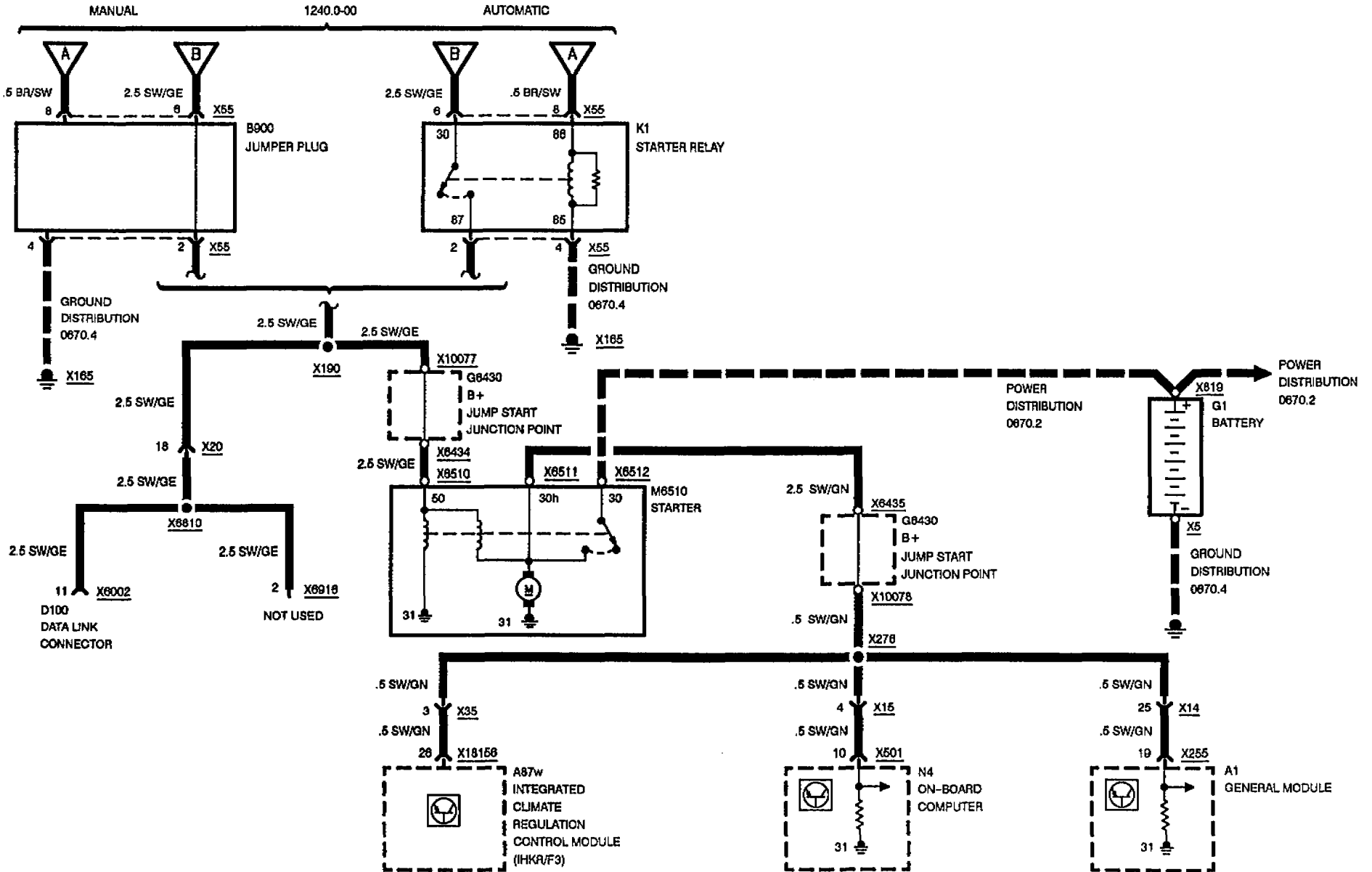
START

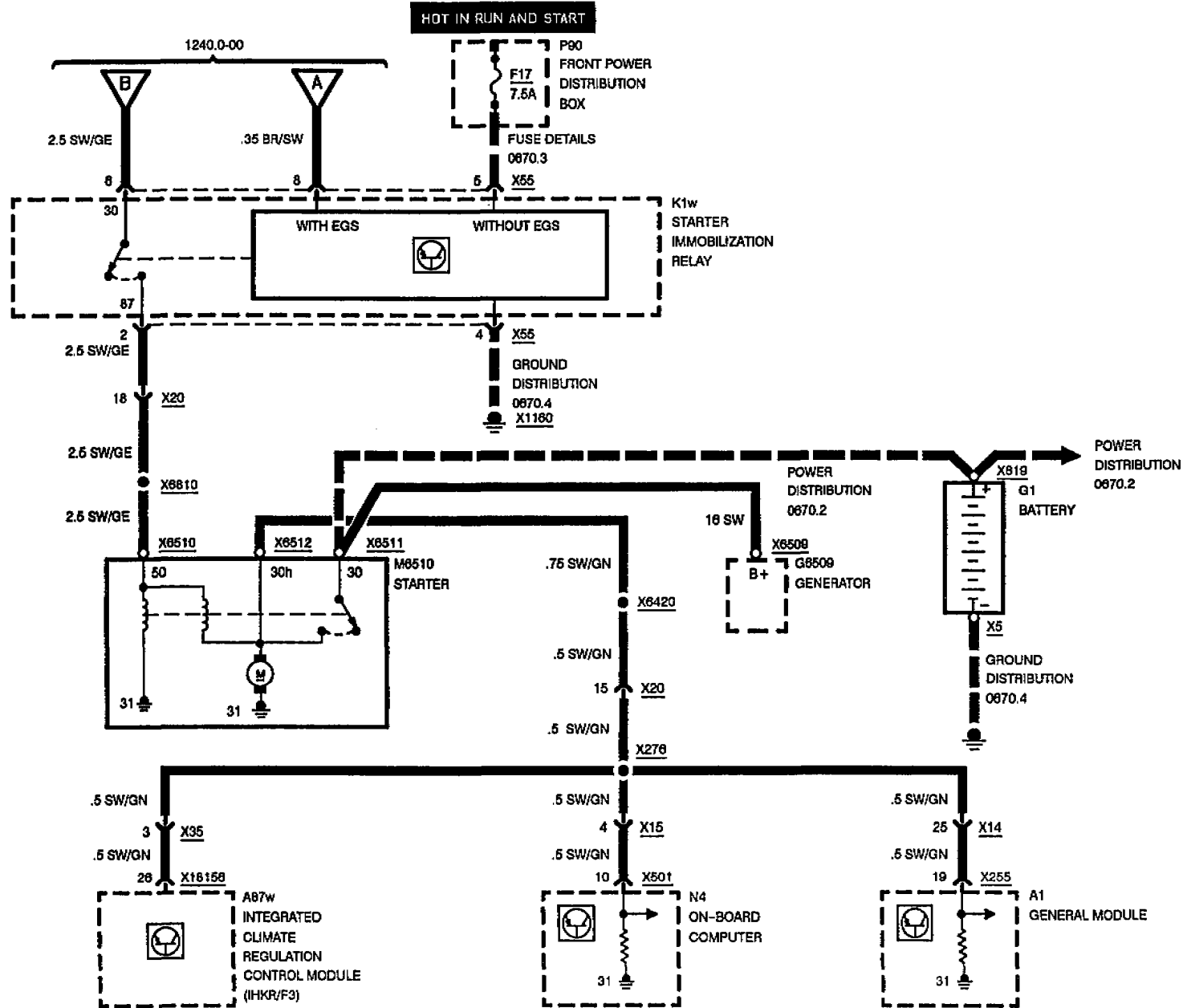
530i/t, 540i EARLY PRODUCTION

12/94

1240.0-03

1994

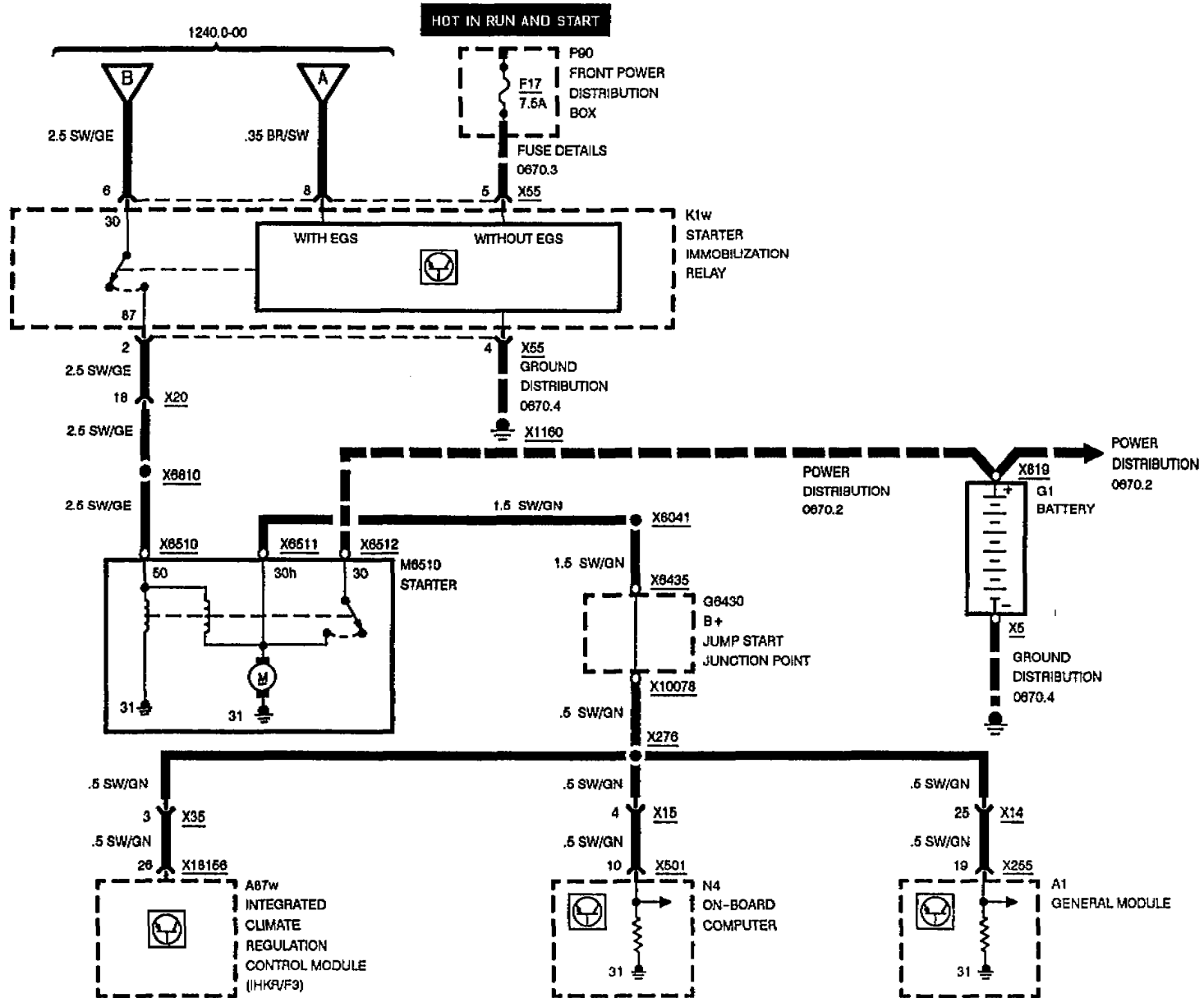






START

530i/t, 540i LATE PRODUCTION



12/94

1240.0-05

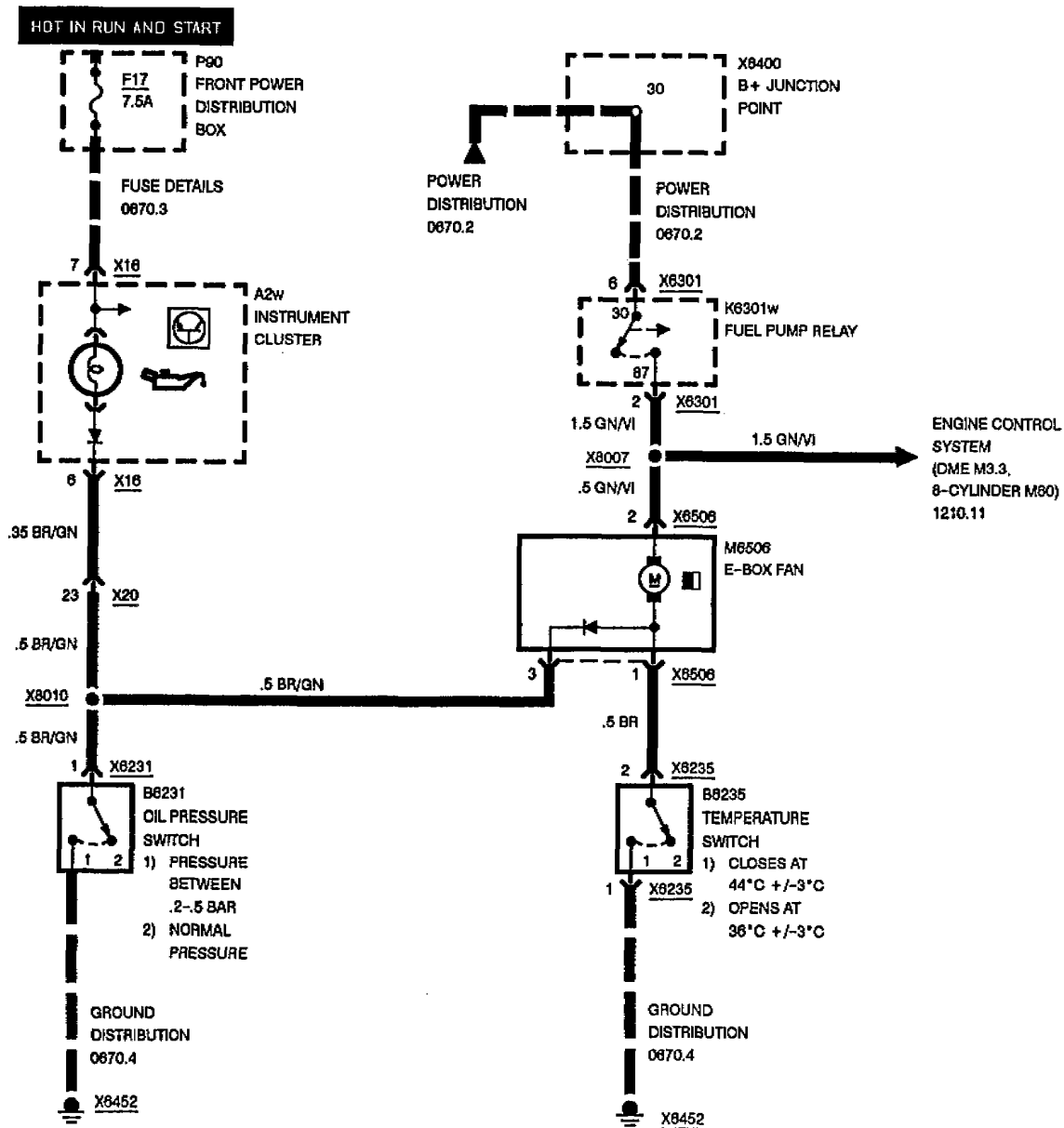
1994

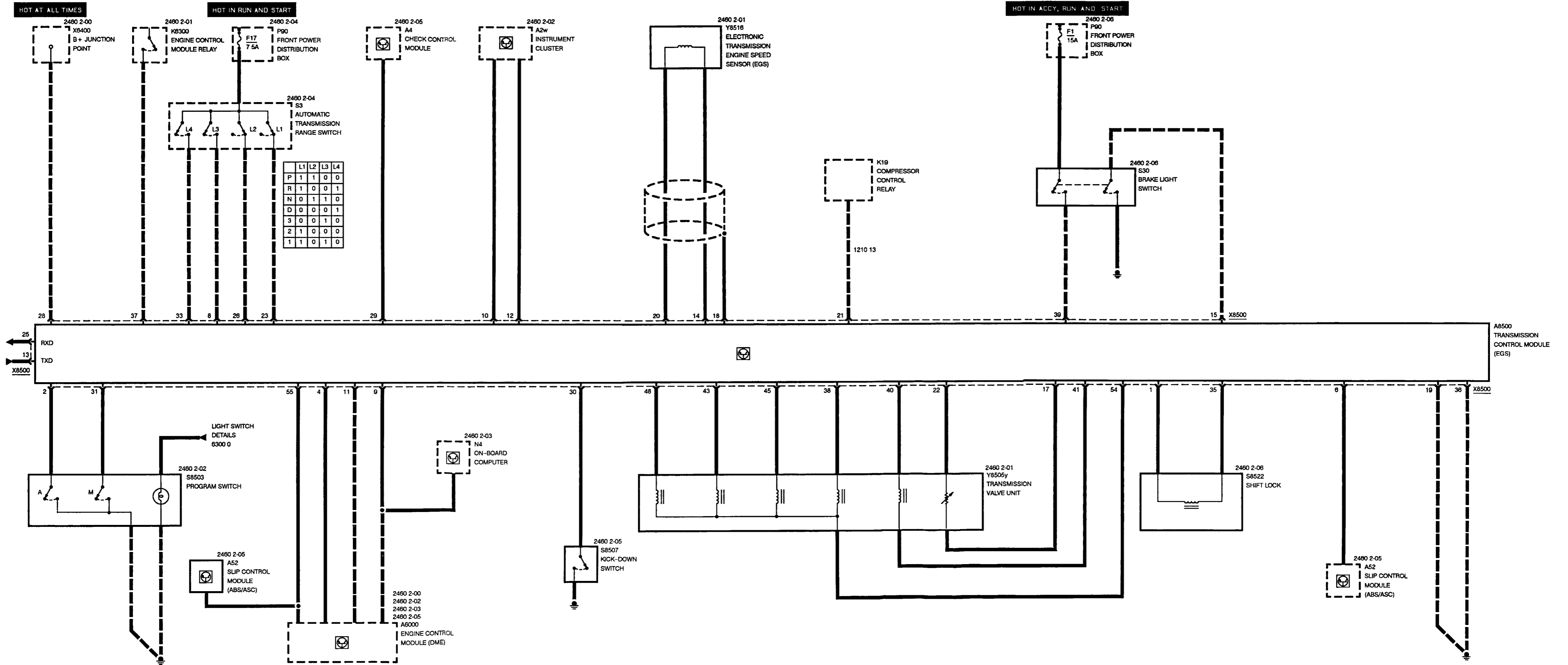


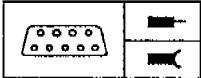


# E-BOX FAN

530i/t, 540i





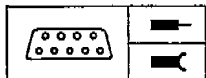


## Pin Assignments

### X8500

Pin	Type	Description/Function	Connection
1	A	Shift lock solenoid control	Shift lock
2	E	Automatic mode signal	Program switch
3		Not used	
4	A	Ignition timing intervention	Engine control module (DME)
5		Not used	
6	E	Transmission intervention signal	Slip control module (ABS/ASC + T)
7		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	Automatic mode indicator control	Instrument cluster
11	E	Crankshaft RPM speed signal TD	Engine control module (DME)
12	A	Manual mode indicator control	Instrument cluster
13	E/A	TxD diagnostic data link	Data link connector
14	E	Transmission output shaft speed (-)	Electronic transmission output shaft speed sensor (EGS)
15	E	Brake switch test signal	Brake light switch
16		Not used	
17	E	Oil temperature signal (analog ground)	Transmission gear shift unit
18	A	Shield ground	Electronic transmission output shaft speed sensor (EGS) shield
19	M	Ground, power	Ground point
20	E	Transmission output shaft speed (+)	Electronic transmission output shaft speed sensor (EGS)
21	E	A/C compressor ON signal	Compressor control relay
22	E	Oil temperature signal (+)	Transmission gear shift unit
23	E	Gear range signal L1	Automatic transmission range switch
24		Not used	
25	E	RxD diagnostic data link	Data link connector
26	E	Gear range signal L2	Automatic transmission range switch
27		Not used	
28	E	Terminal 30 voltage supply	B+ junction point

E = Input, A = Output, M = Ground



## Pin Assignments

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

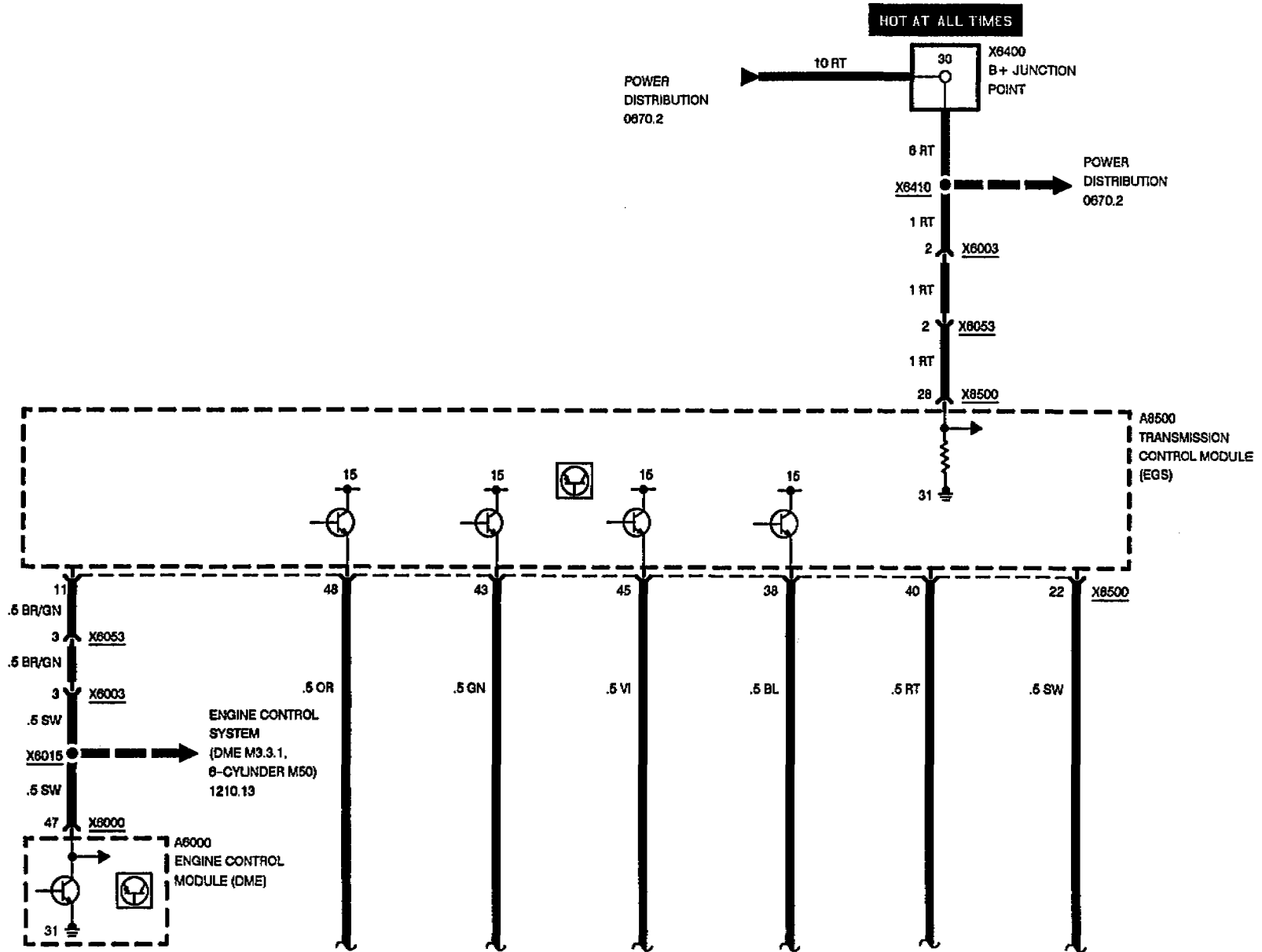
E = Input, A = Output, M = Ground

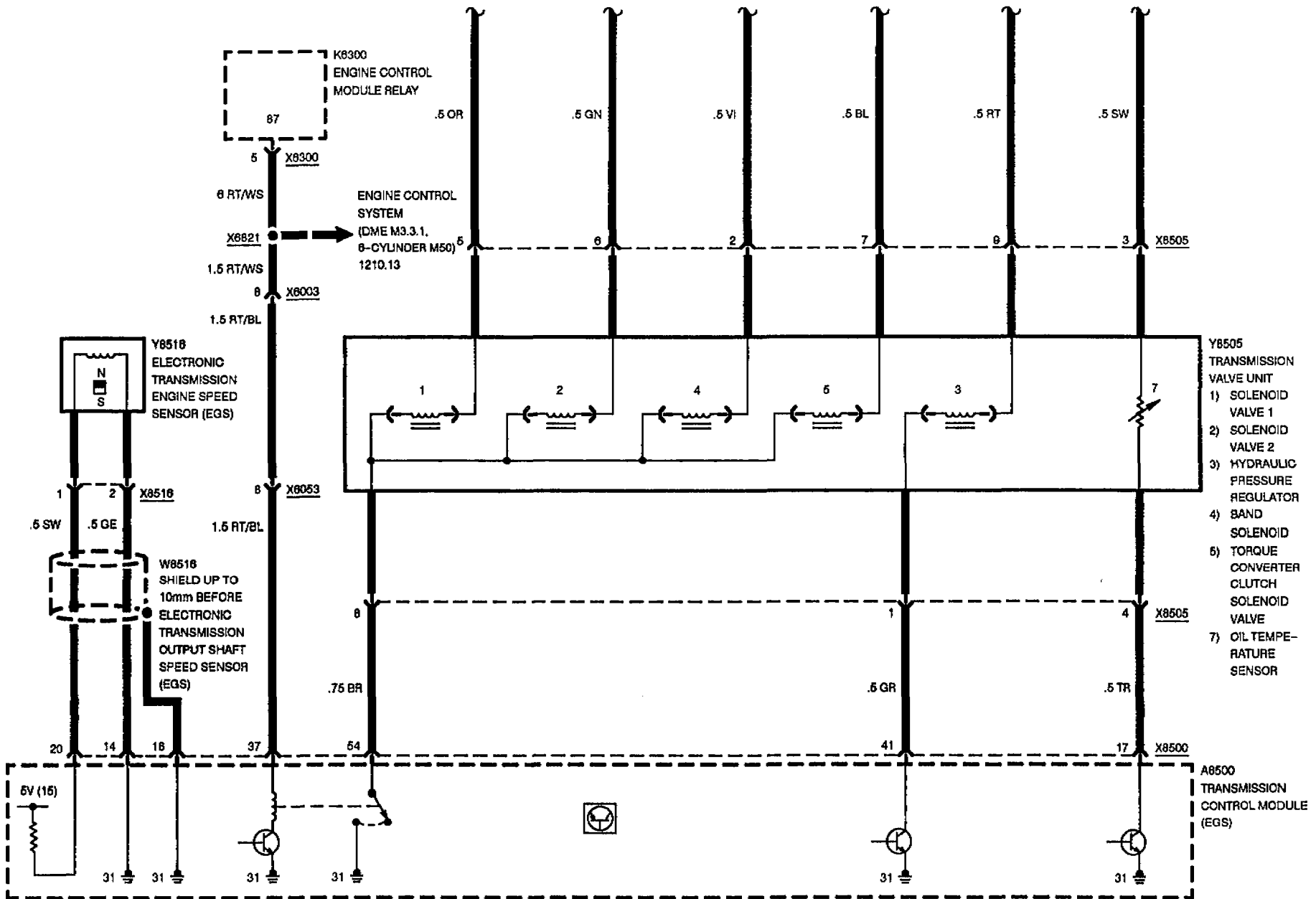
BMW  
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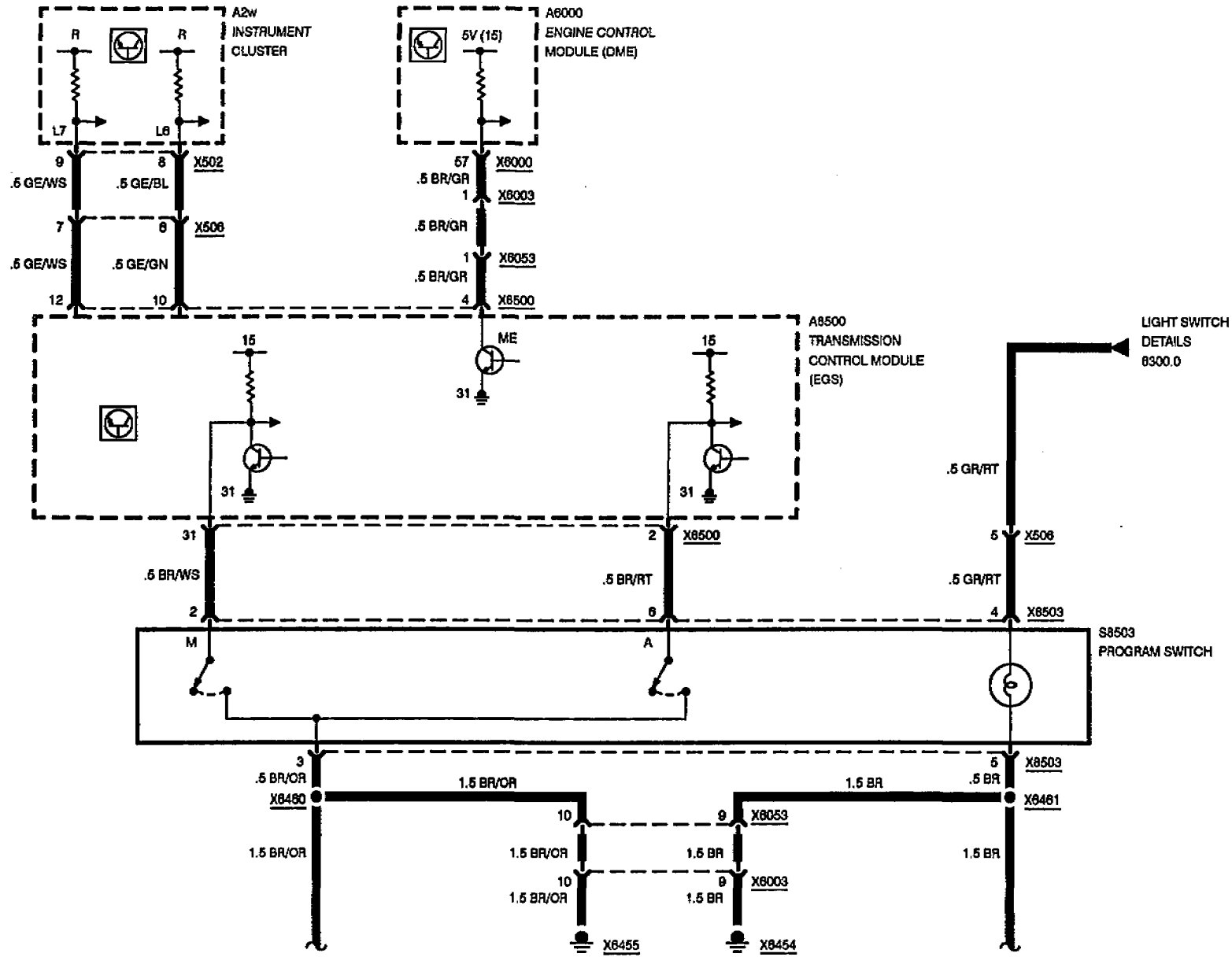
# ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



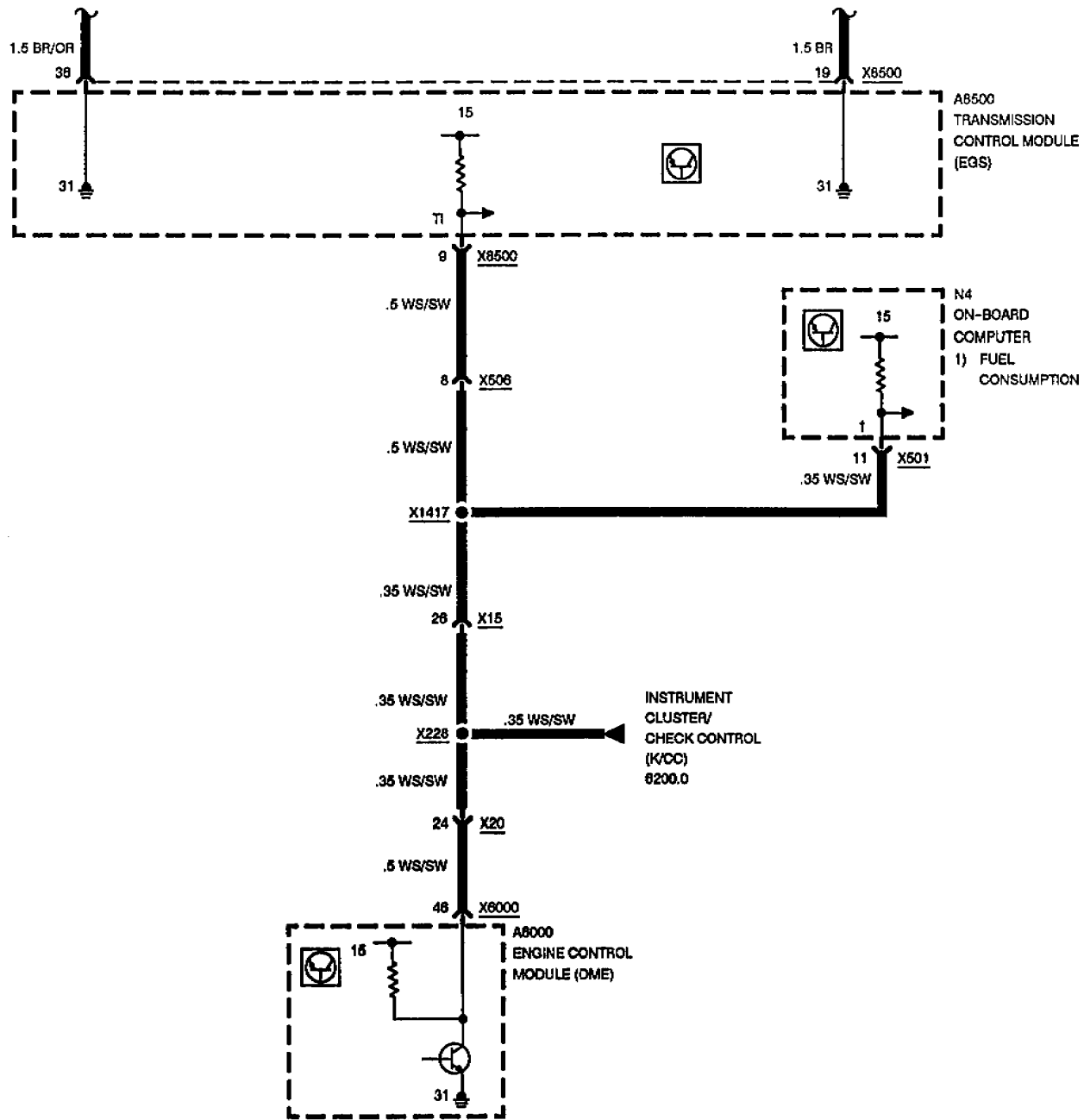




# ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

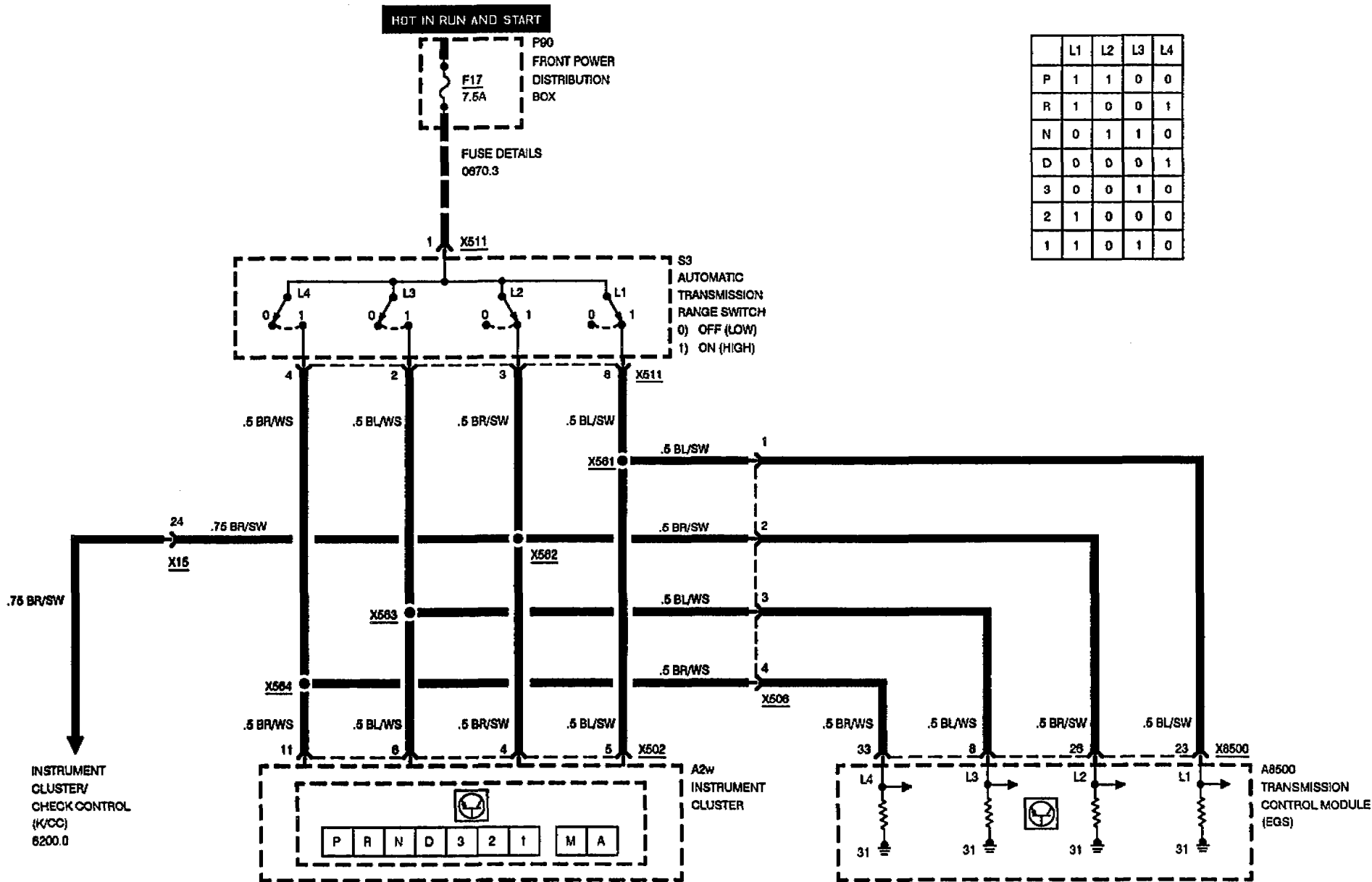






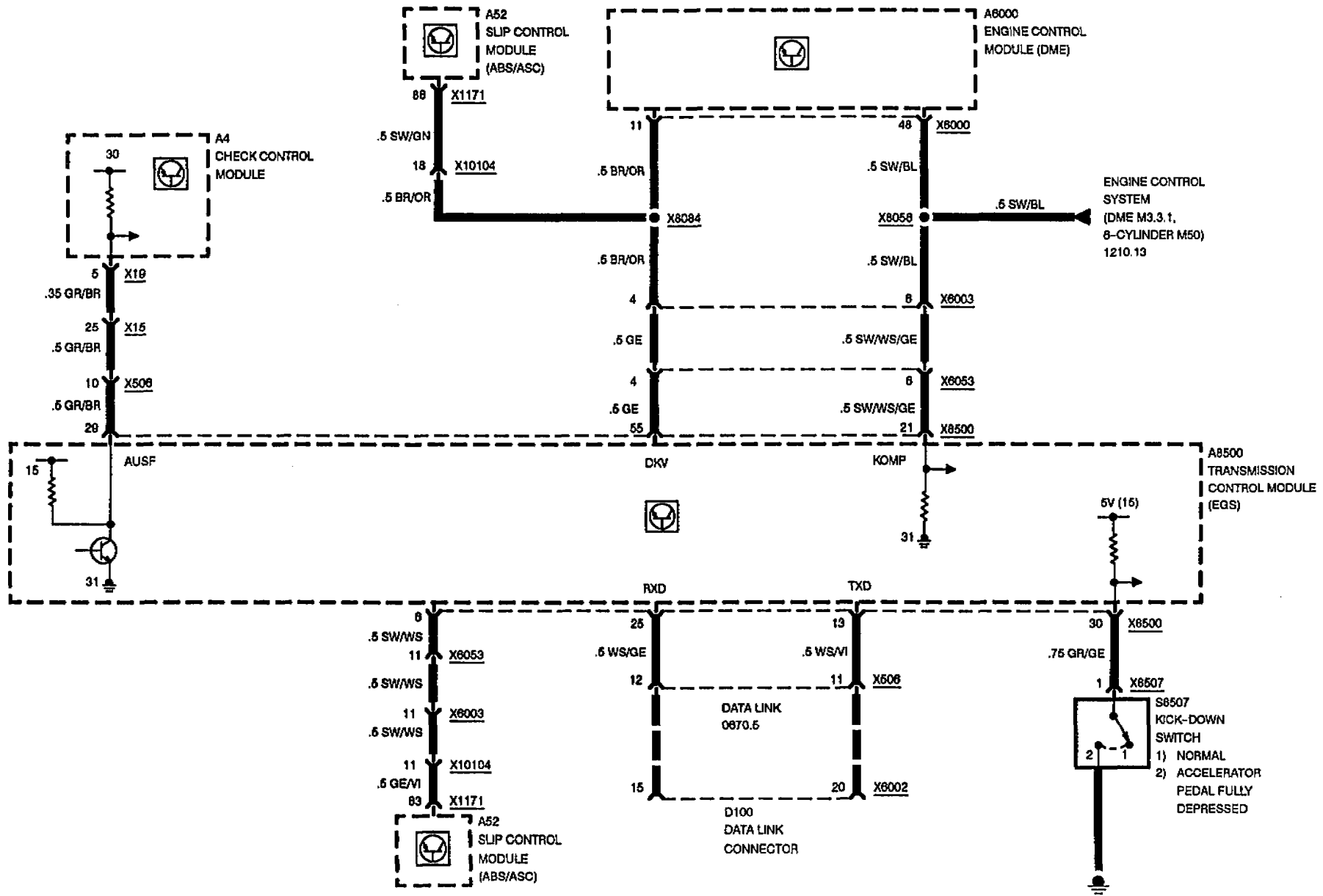


# ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)



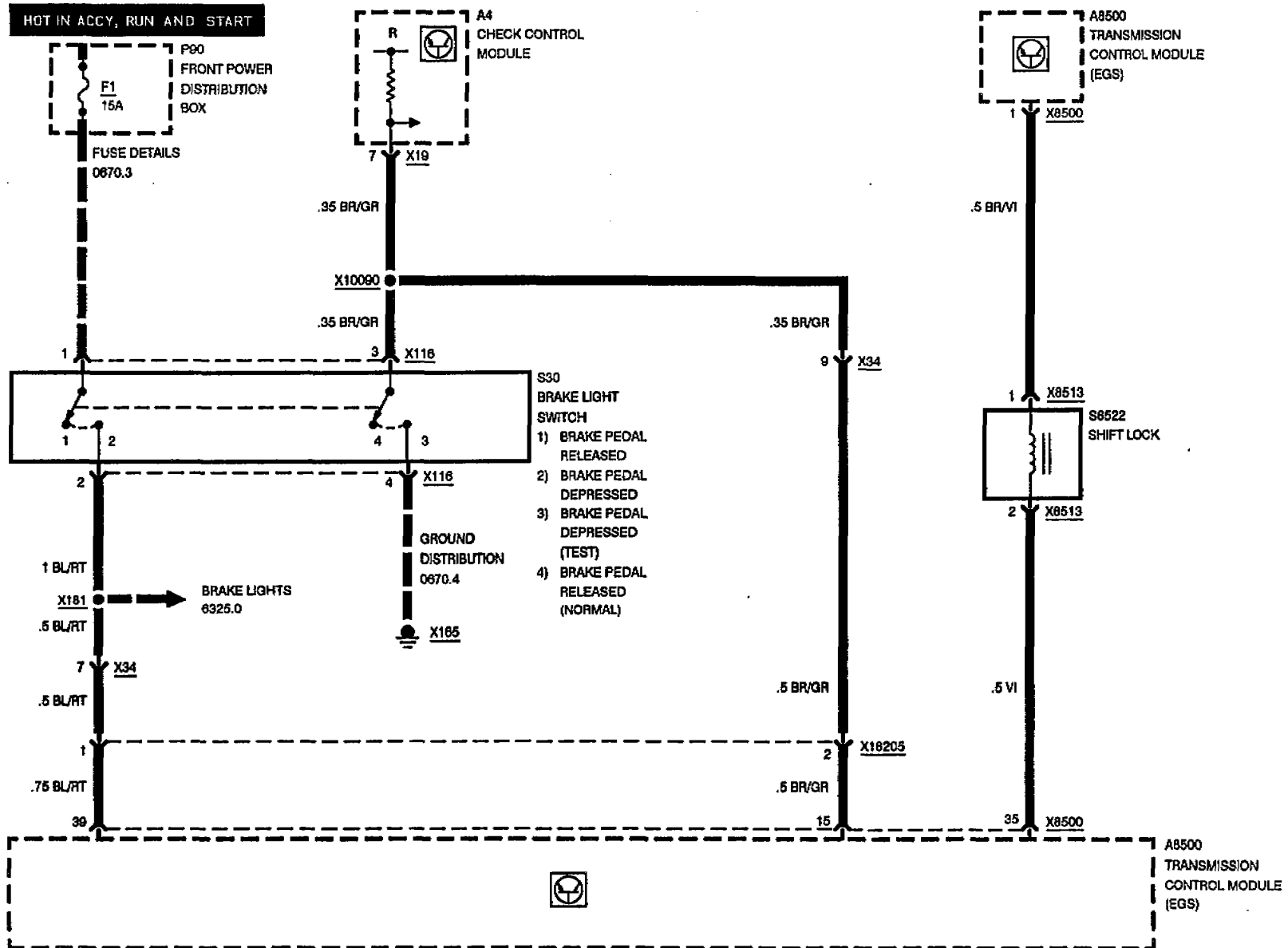


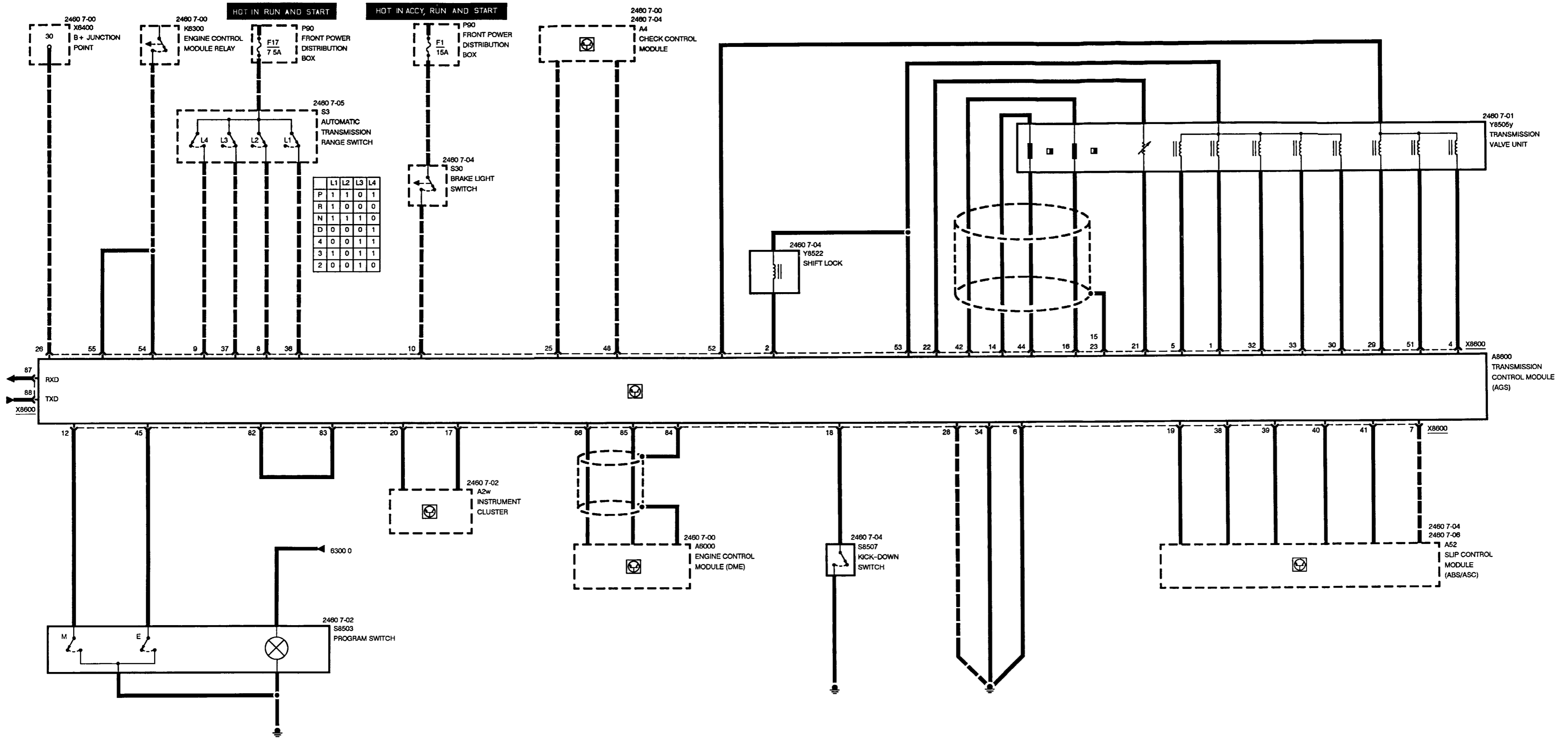
# ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)

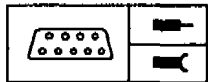




# ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)





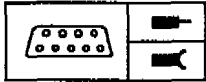


## Pin Assignments

### X8600

Pin	Type	Description/Function	Connection
1	A	Activation, pressure regulator 2	Transmission gear shift unit
2	A	Activation, PN shift lock	Shift lock
3		Not used	
4	A	Activation, pressure regulator 4	Transmission gear shift unit
5	A	Activation, pressure regulator 1	Transmission gear shift unit
6	M	Ground, electronics	Ground connection
7	E	ASC passive button voltage signal	Slip control module (ABS/ASC + T)
8	E	Position switch L2	Selector lever
9	E	Position switch L4	Selector lever
10	E	Brake pedal signal	Brake light switch
11		Not used	
12	E	S-program signal	Program switch
13		Not used	
14	E	Signal, output speed sensor (+)	Transmission gear shift unit
14	E	Signal, turbine speed (-)	Transmission gear shift unit (SOP 02/93)
15	M	Shield	Speed sensor
16	E	Signal, turbine speed (-)	Transmission gear shift unit
16	E	Signal, output speed sensor (+)	Transmission gear shift unit (SOP 02/93)
17	A	L5 M-program	Instrument cluster
18	E	Signal, kick down operated	Kick down switch
19	E	ABS/ASC signal	ABS/ASC control module
20	A	L6 A-program	Instrument cluster
21	M	Transmission temperature sensor (-)	Transmission gear shift unit
22	E	Transmission temperature sensor (+)	Transmission gear shift unit
23	M	Shield	Transmission control module (AGS)
24		Not used	
25	A	Signal, fault indicator	Check control module
26	E	Positive supply terminal 30	B+ junction point
27		Not used	
28	M	Ground, electronics	Ground connection

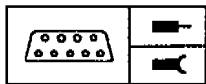
E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Activation, pressure regulator 3	Transmission gear shift unit
30	A	Activation, solenoid valve 1	Transmission gear shift unit
31		Not used	
32	A	Activation, solenoid valve 3	Transmission gear shift unit
33	A	Activation, solenoid valve 2	Transmission gear shift unit
34	M	Ground, power	Ground connection
35		Not used	
36	E	Position switch L1	Selector lever
37	E	Position switch L3	Selector lever
38	E	Left front wheel speed signal (ABS/ASC+T)	Slip control module (ABS/ASC+T)
39	E	Right front wheel speed signal (ABS/ASC+T)	Slip control module (ABS/ASC+T)
40	E	Left rear wheel speed signal (ABS/ASC+T)	Slip control module (ABS/ASC+T)
41	E	Right rear wheel speed signal (ABS/ASC+T)	Slip control module (ABS/ASC+T)
42	E	Signal, output speed sensor (+)	Transmission gear shift unit
43		Not used	
44	E	Signal, turbine speed (-)	Transmission gear shift unit
45	E	Signal E-program	Program switch
46		Not used	
47		Not used	
48	E	Signal, brake test switch	Brake light switch
49		Not used	
50		Not used	
51	A	Activation pressure regulator 5	Transmission gear shift unit
52	A	Positive supply pressure regulator 3/4/5	Transmission gear shift unit
53	A	Positive supply pressure regulator 1/2 solenoid valves 1/2/3	Transmission gear shift unit
54	A	Positive supply terminal 15	Engine control module relay
55	A	Positive supply terminal 15	Engine control module relay
56		Not used	
57		Not used	
58		Not used	

E = Input, A = Output, M = Ground



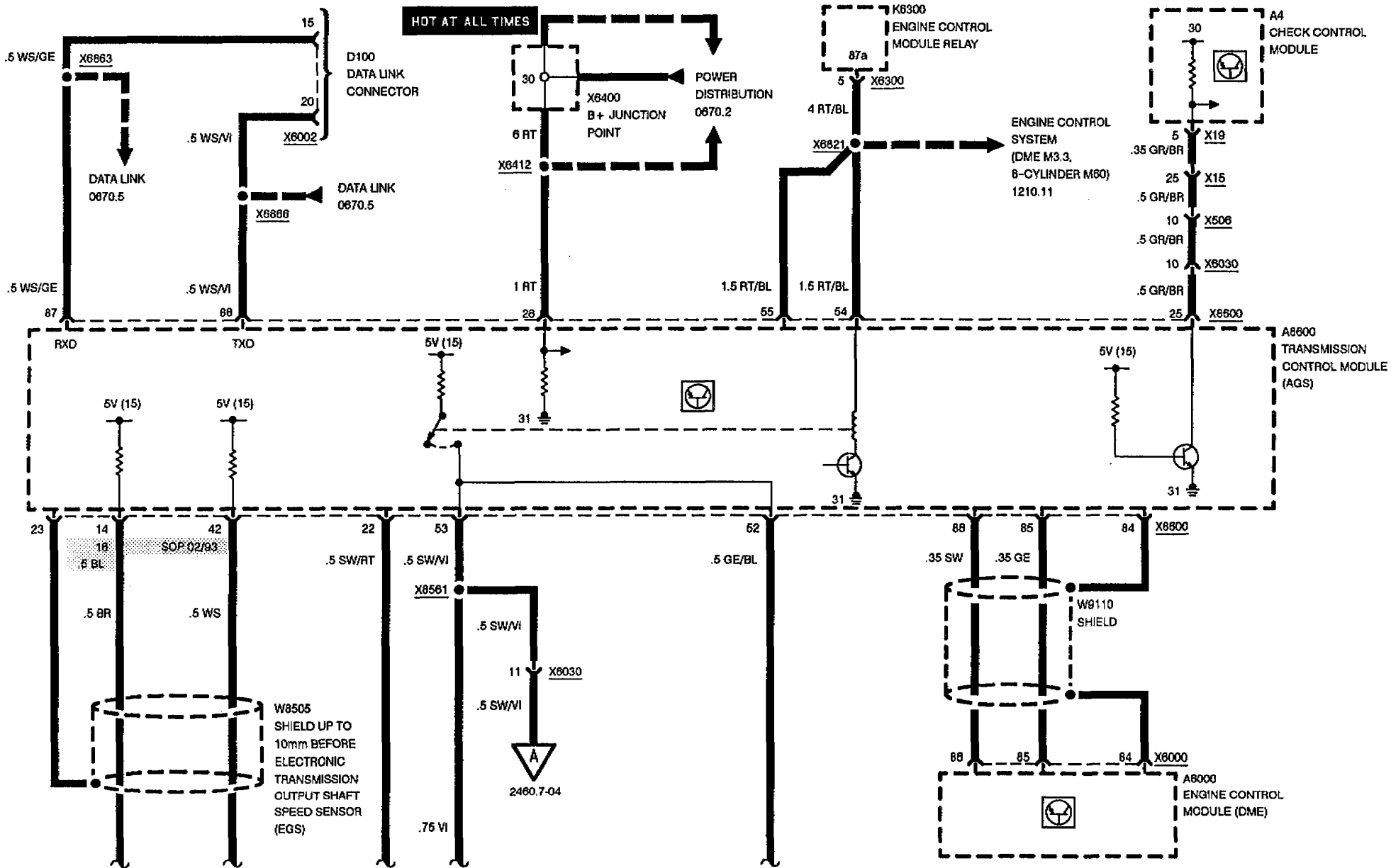
## Pin Assignments

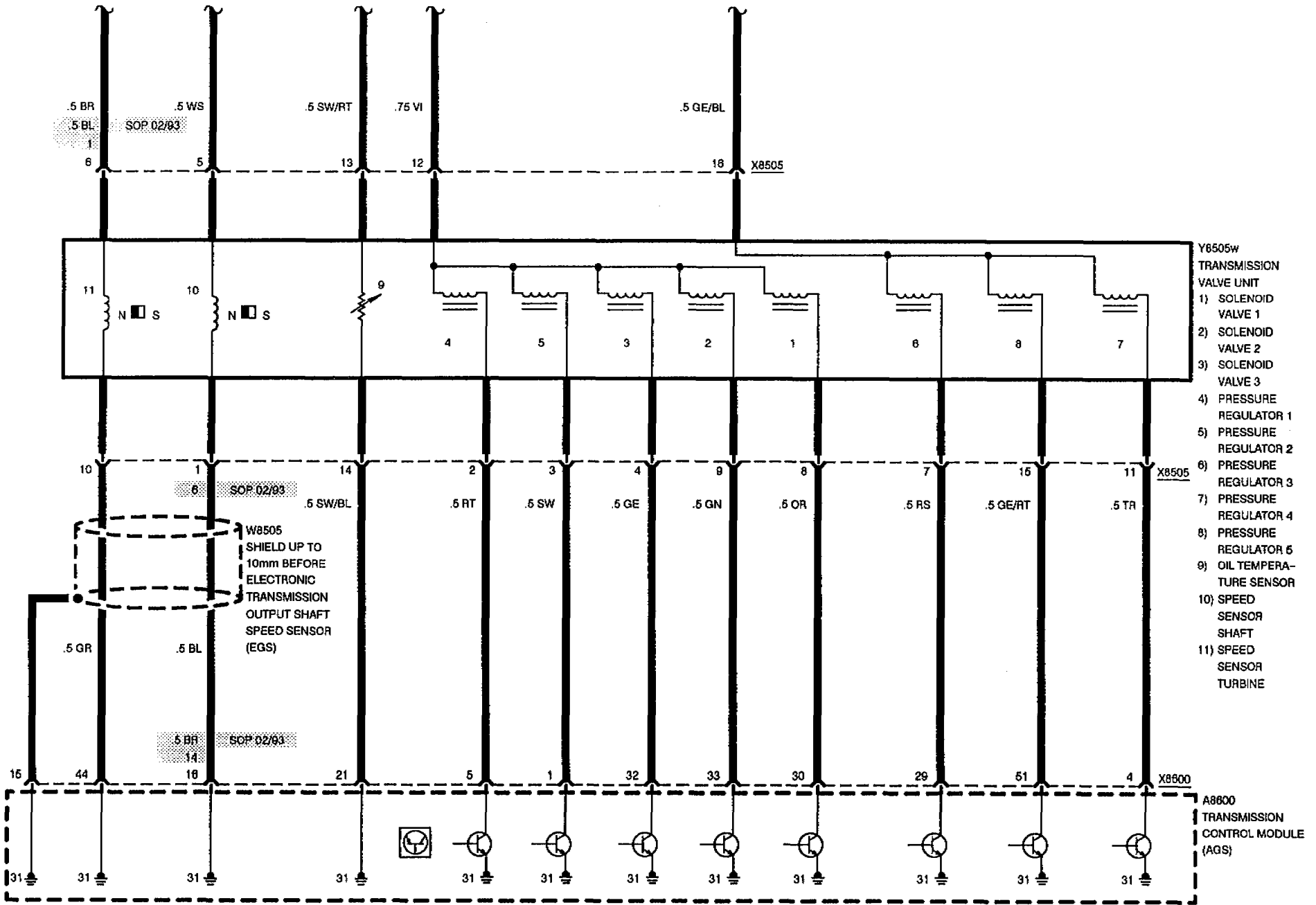
Pin	Type	Description/Function	Connection
59		Not used	
60		Not used	
61		Not used	
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	CAN R1 bridged-out	Transmission control module (pin 83)
83	E/A	CAN R2 bridged-out	Transmission control module (pin 82)
84	M	Ground	Shield
85	E/A	CAN-L	Engine control module (DME)
86	E/A	CAN-H	Engine control module (DME)
87	E	RxD	Data link connector
88	E/A	TxD	Data link connector

E = Input, A = Output, M = Ground



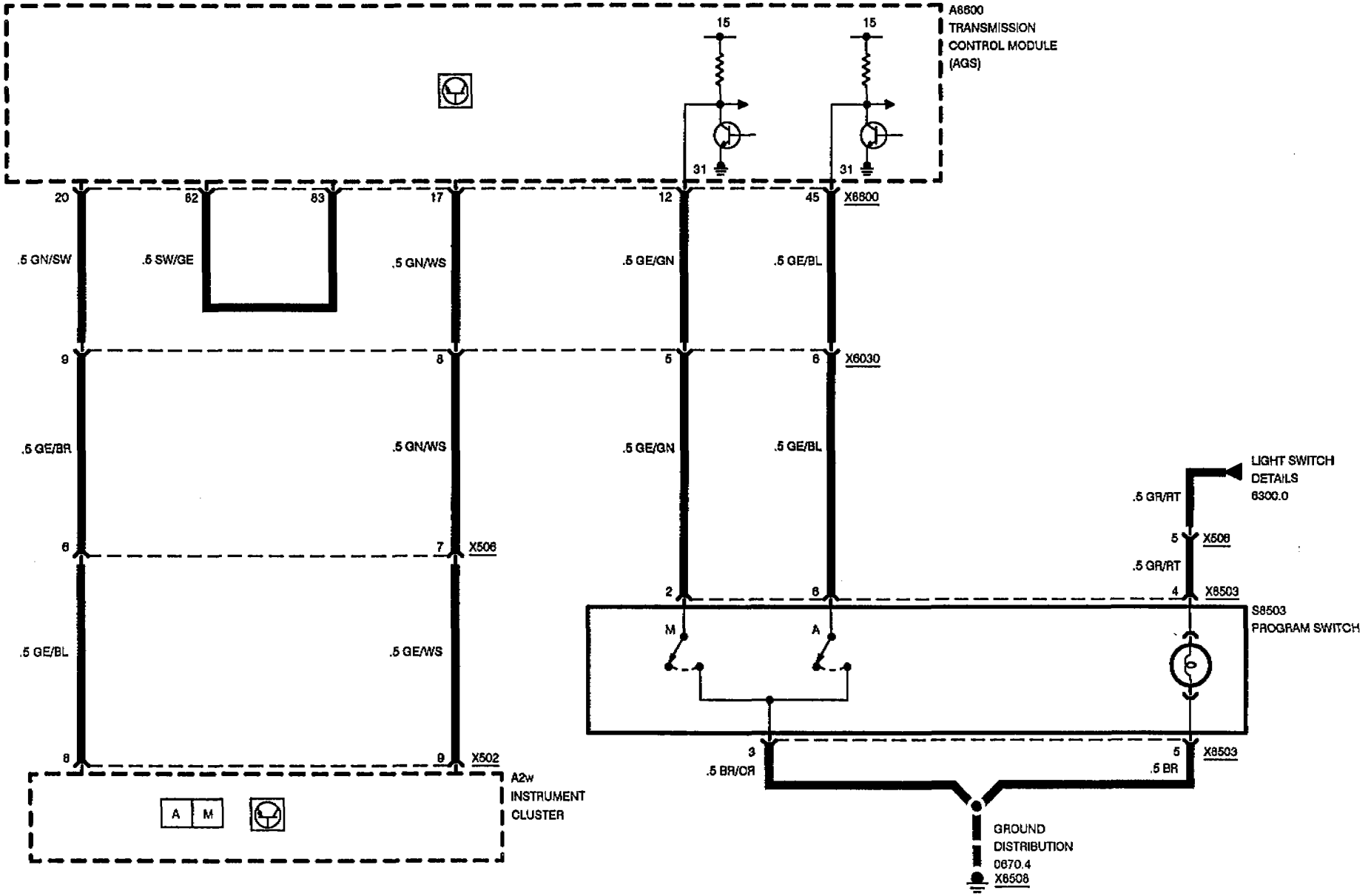
**ELECTRONIC TRANSMISSION CONTROL (AGS: GS 9.22/ A5S 560Z)**





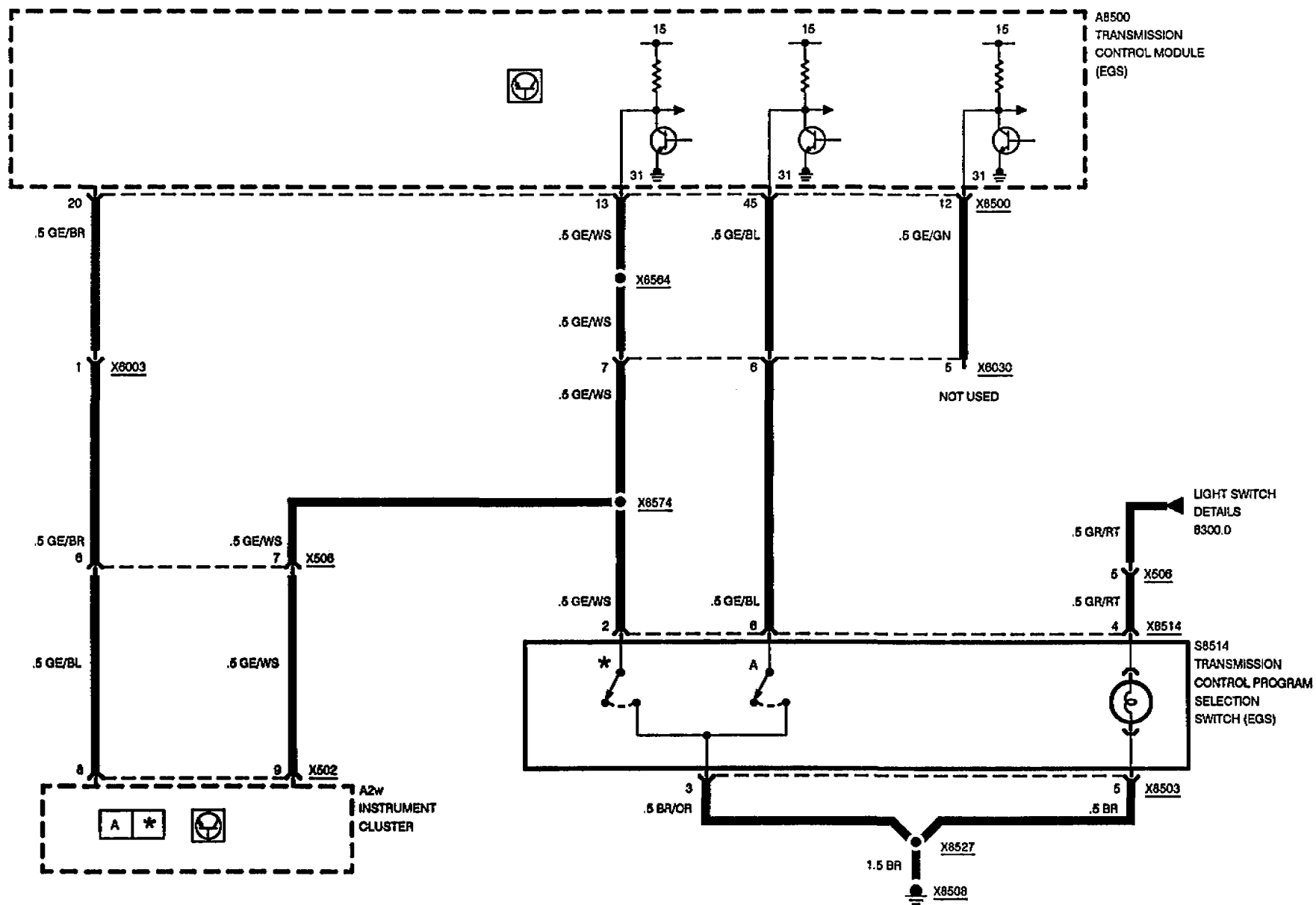


# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 9.22/ A5S 560Z)





# ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/ A5S 560Z) SOP 02/93



12/94

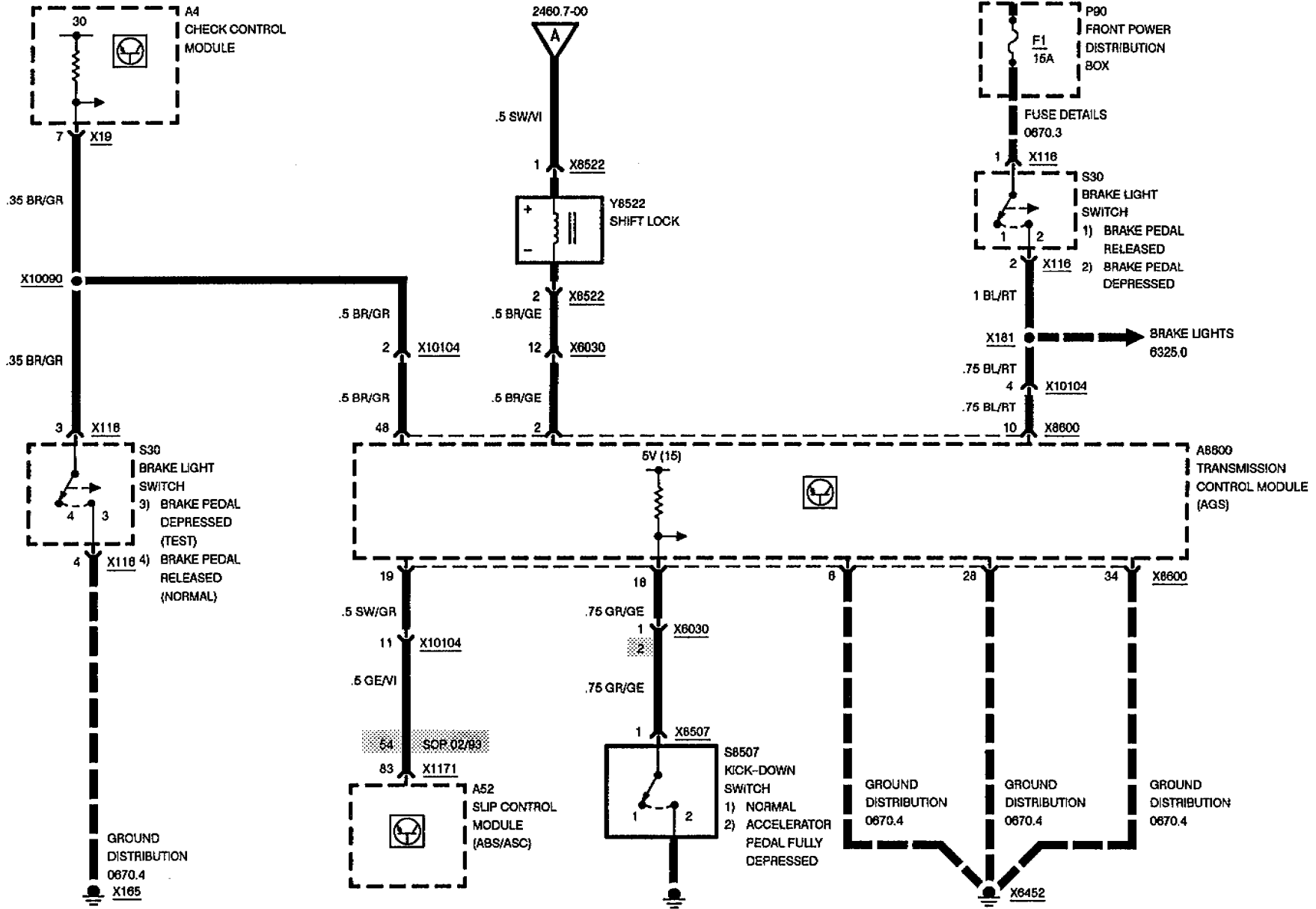
2460.7-03

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# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 9.22/ A5S 560Z)

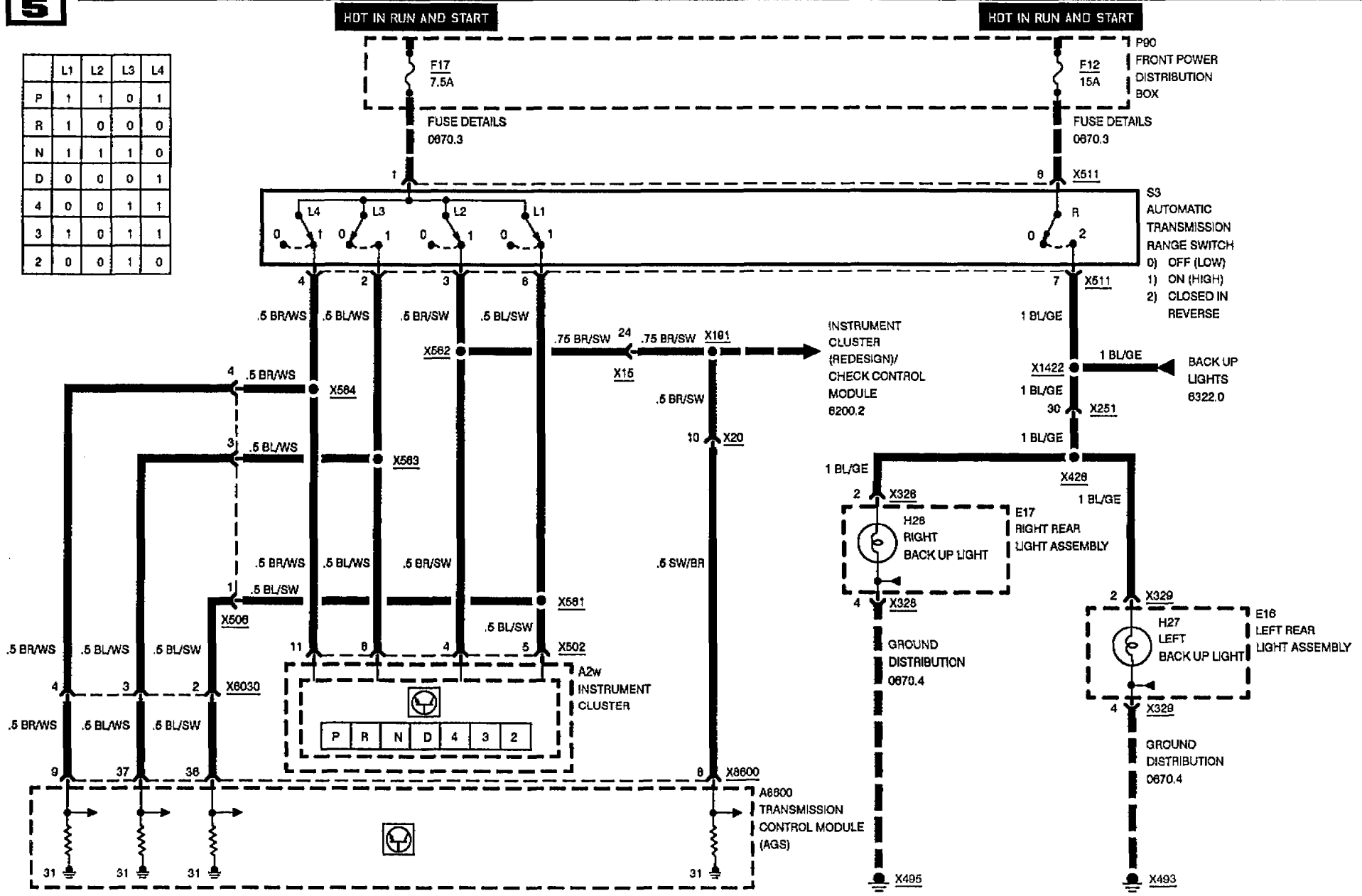
HOT IN ACCY, RUN AND START





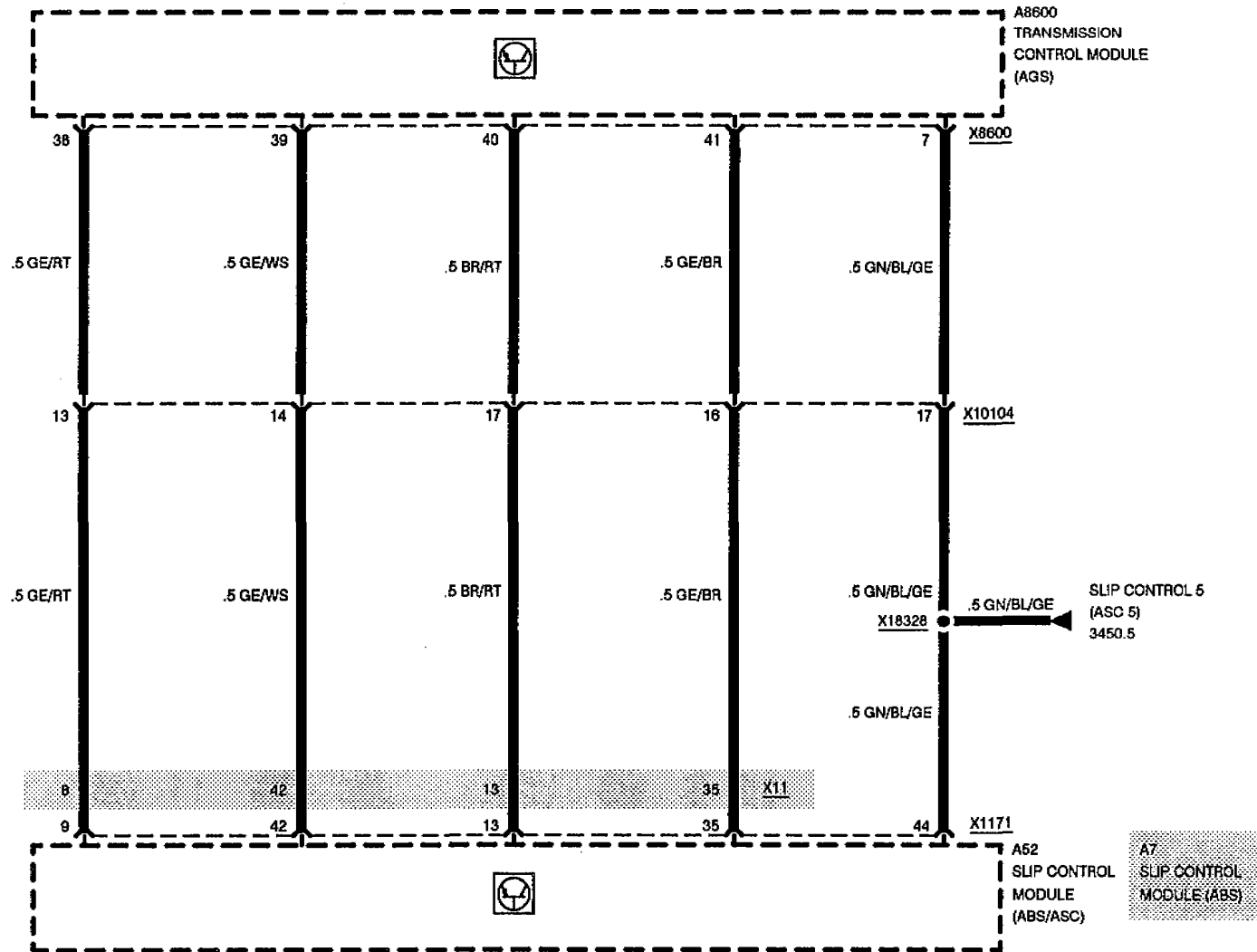
# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 9.22/ A5S 560Z)

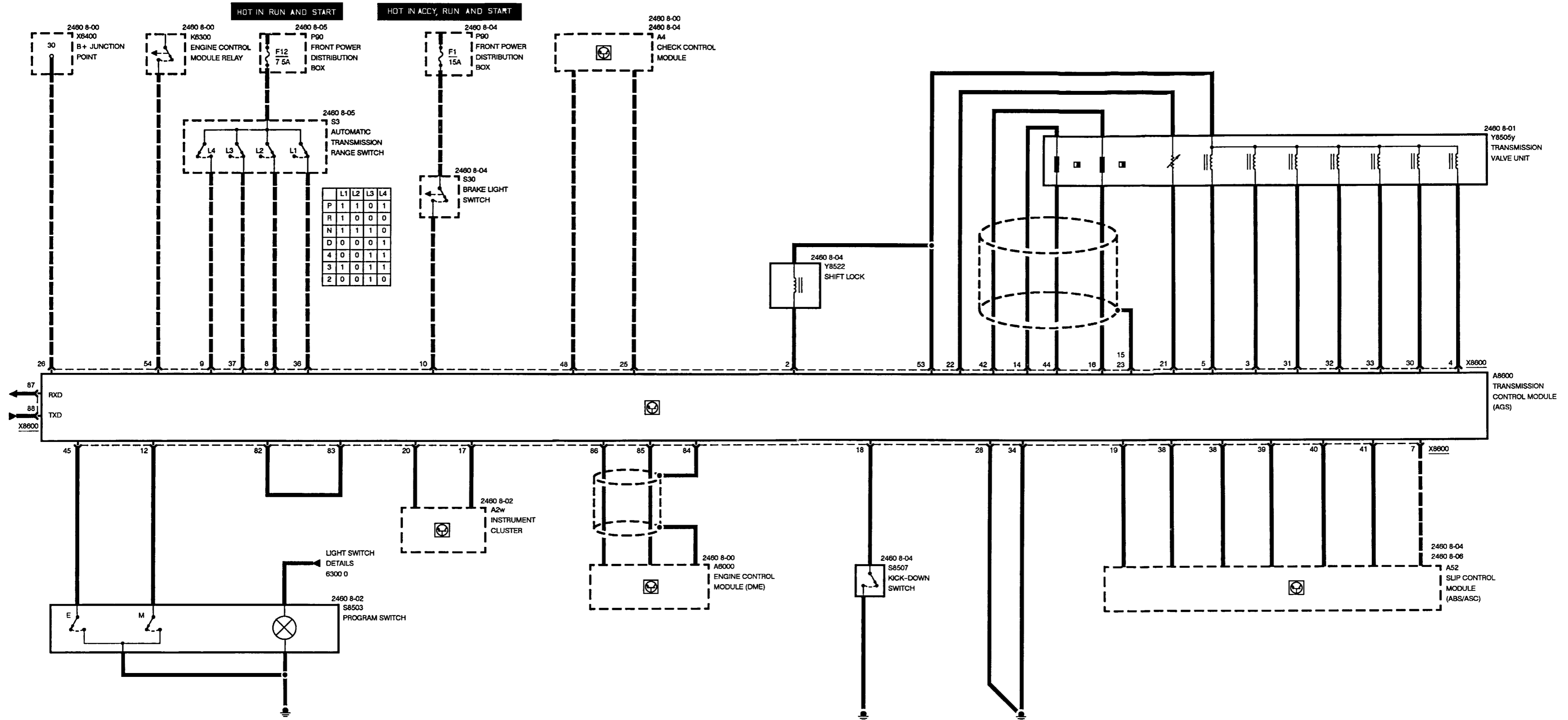
	L1	L2	L3	L4
P	1	1	0	1
R	1	0	0	0
N	1	1	1	0
D	0	0	0	1
4	0	0	1	1
3	1	0	1	1
2	0	0	1	0



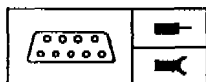


# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 9.22/ A5S 560Z)







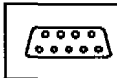


## Pin Assignments

### X8600

Pin	Type	Description/Function	Connection
1		Not used	
2	A	Activation, PN shift lock	Shift lock
3	A	Activation, solenoid valve 5	Transmission gear shift unit
4	A	Activation, converter clutch solenoid valve	Transmission gear shift unit
5	A	Activation, pressure regulator	Transmission gear shift unit
6		Not used	
7	E	ASC passive button voltage signal	Slip control module (ABS/ASC + T)
8	E	Position switch L2	Selector lever
9	E	Position switch L4	Selector lever
10	E	Brake pedal signal	Brake light switch
11		Not used	
12	E	S-program signal	Program switch
13		Not used	
14	E	Signal, output speed sensor (+)	Transmission gear shift unit
14	E	Signal, turbine speed (-)	Transmission gear shift unit (SOP 02/93)
15	M	Shield	Speed sensor
16	E	Signal, turbine speed (-)	Transmission gear shift unit
16	E	Signal, output speed sensor (+)	Transmission gear shift unit (SOP 02/93)
17	A	L5 program	Instrument cluster
18	E	Signal, kick down operated	Kick down switch
19	E	ASC signal	Slip control module (ASC + T)
20	A	L6 A-program	Instrument cluster
21	M	Transmission temperature sensor (-)	Transmission gear shift unit
22	E	Transmission temperature sensor (+)	Transmission gear shift unit
23	M	Shield	Speed sensor
24		Not used	
25	A	Signal, fault indicator	Check control module
26	E	Positive supply terminal 30	B+ junction point
27		Not used	
28	M	Ground, electronics	Ground connection

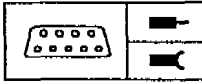
E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
29		Not used	
30	A	Activation, solenoid valve 1	Transmission gear shift unit
31	A	Activation, solenoid valve 4	Transmission gear shift unit
32	A	Activation, solenoid valve 3	Transmission gear shift unit
33	A	Activation, solenoid valve 2	Transmission gear shift unit
34	M	Ground, power	Ground point
35		Not used	
36	E	Position switch L1	Selector lever
37	E	Position switch L3	Selector lever
38	E	Left front wheel speed signal (ABS/ASC + T)	Slip control module (ABS/ASC + T)
39	E	Right front wheel speed signal (ABS/ASC + T)	Slip control module (ABS/ASC + T)
40	E	Left rear wheel speed signal (ABS/ASC + T)	Slip control module (ABS/ASC + T)
41	E	Right rear wheel speed signal (ABS/ASC + T)	Slip control module (ABS/ASC + T)
42	E	Signal, output speed sensor (+)	Transmission gear shift unit
43		Not used	
44	E	Signal, turbine speed (-)	Transmission gear shift unit
45	E	Signal E-program	Program switch
46		Not used	
47		Not used	
48	E	Signal, brake test switch	Brake light switch
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53	A	Positive supply pressure regulator and solenoid valves	Transmission gear shift unit
54	E	Positive supply terminal 15	Engine control module relay
55		Not used	
56		Not used	
57		Not used	
58		Not used	

E = Input, A = Output, M = Ground



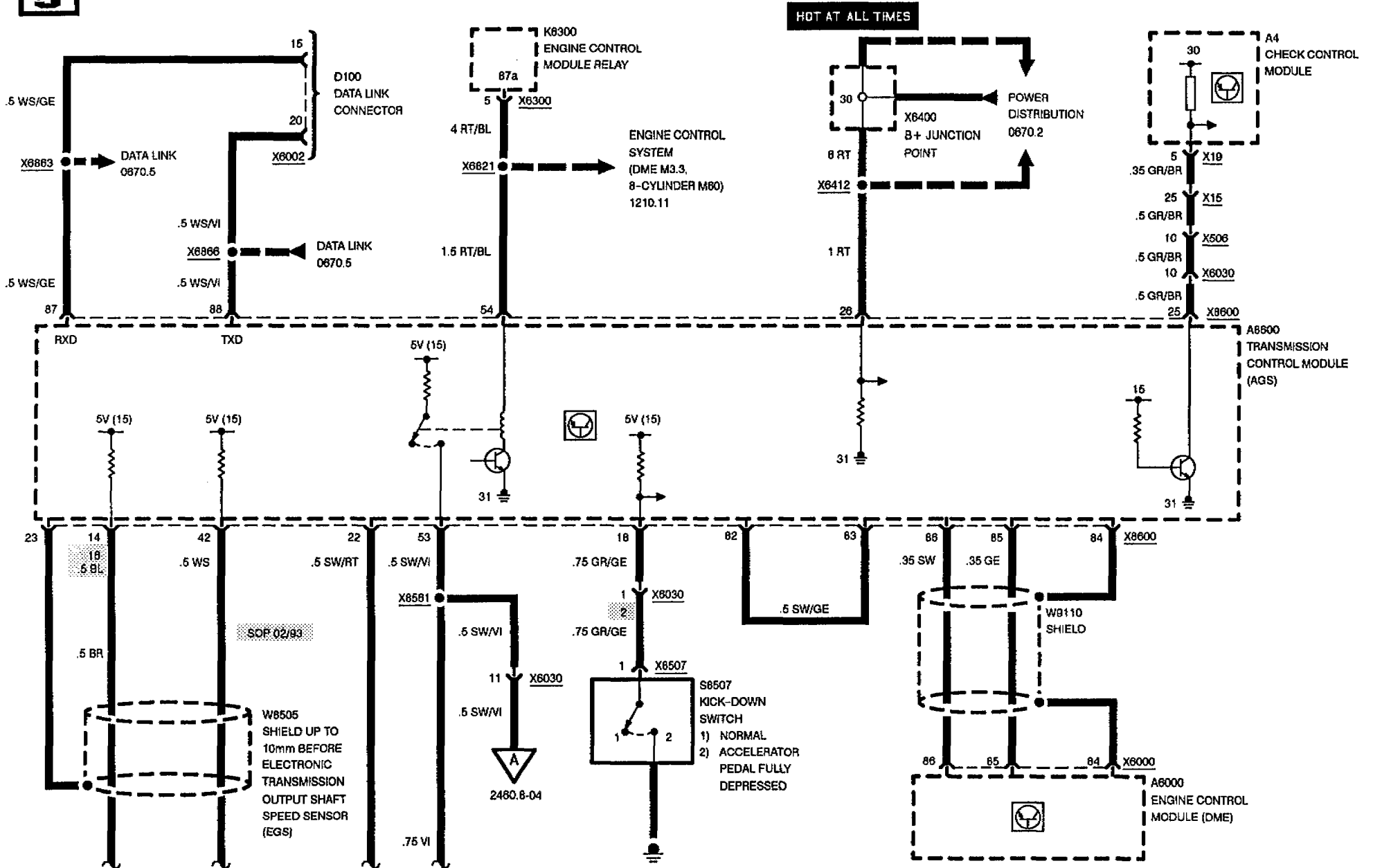
## Pin Assignments

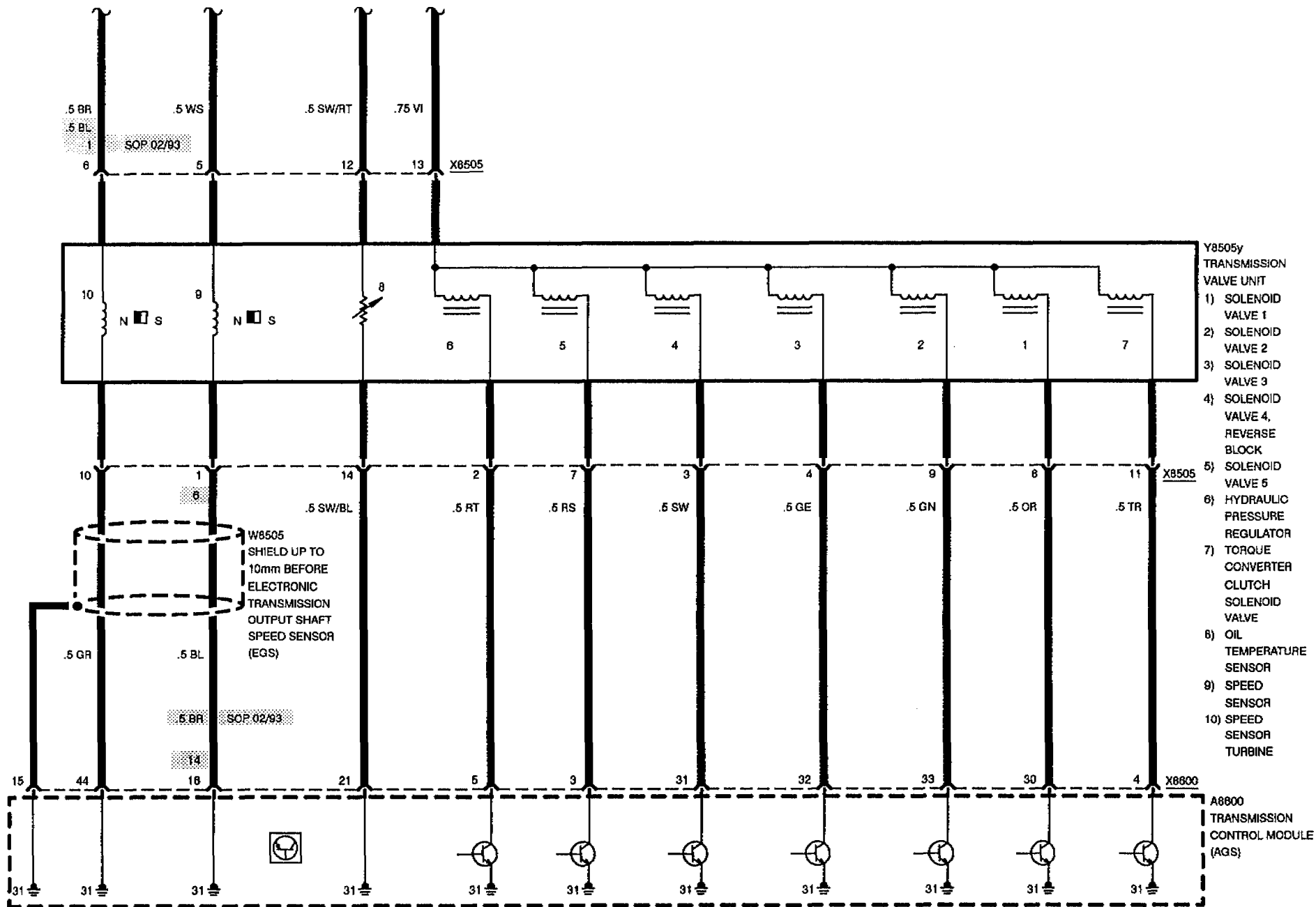
Pin	Type	Description/Function	Connection
59		Not used	
60		Not used	
61		Not used	
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not used	
81		Not used	
82	E/A	CAN R1 bridged-out	Transmission control module (pin 83)
83	E/A	CAN R2 bridged-out	Transmission control module (pin 82)
84	M	Ground	Shield
85	E/A	CAN-L	Engine control module (DME)
86	E/A	CAN-H	Engine control module (DME)
87	E	RxD	Data link connector
88	E/A	TxD	Data link connector

E = Input, A = Output, M = Ground

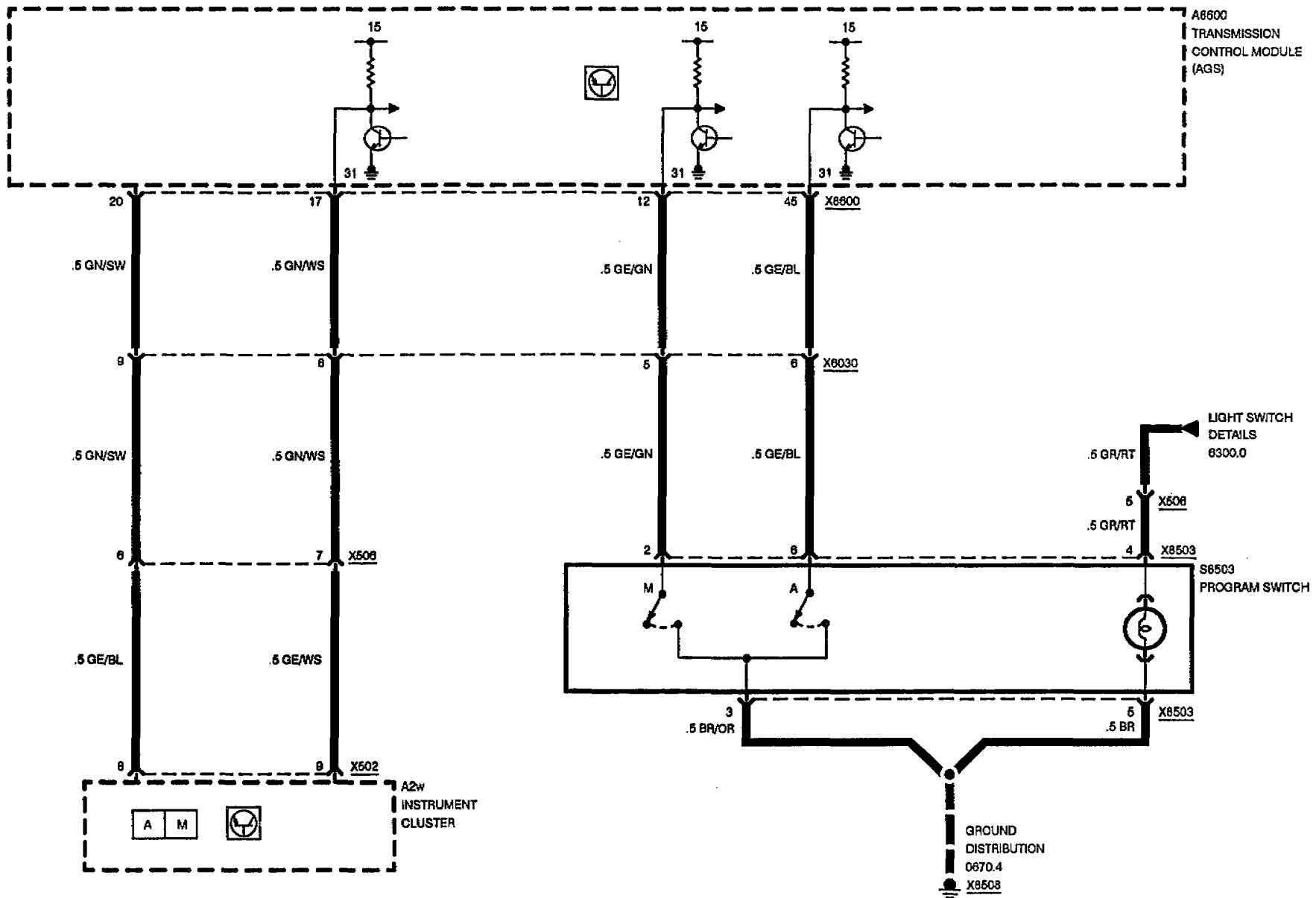


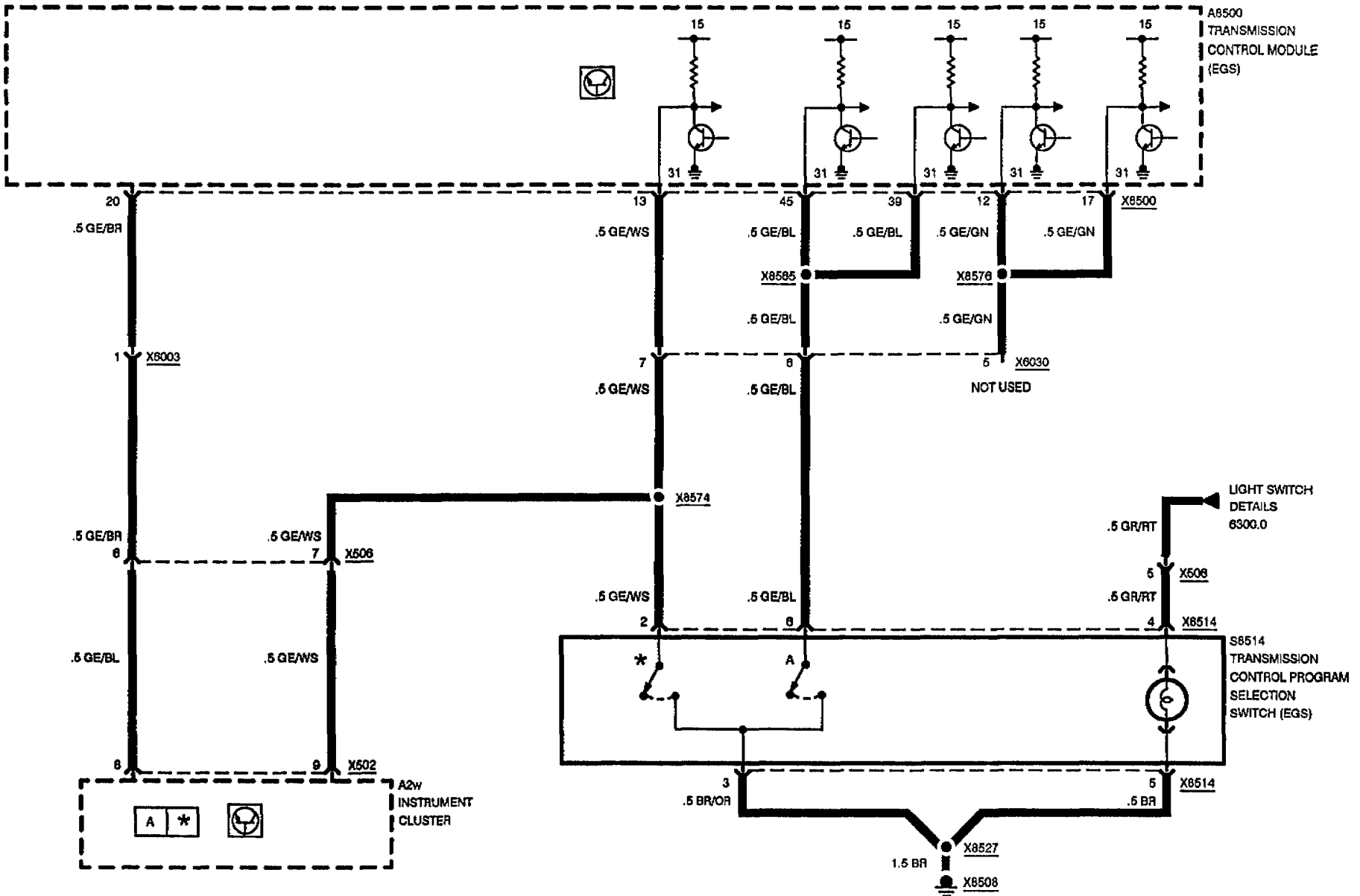
# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 7.32/ A5S 310Z)



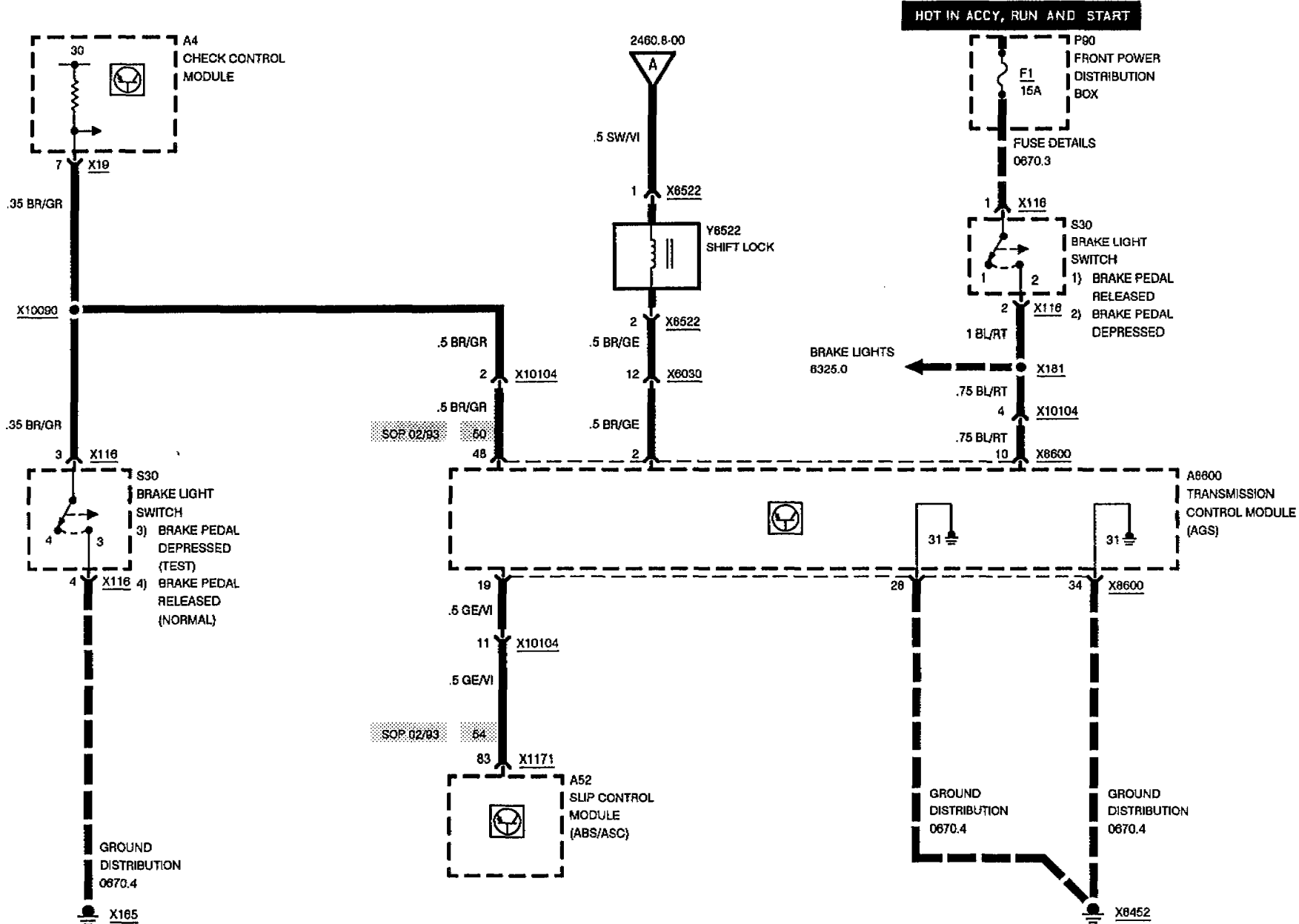


# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 7.32/ A5S 310Z)





# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 7.32/ A5S 310Z)

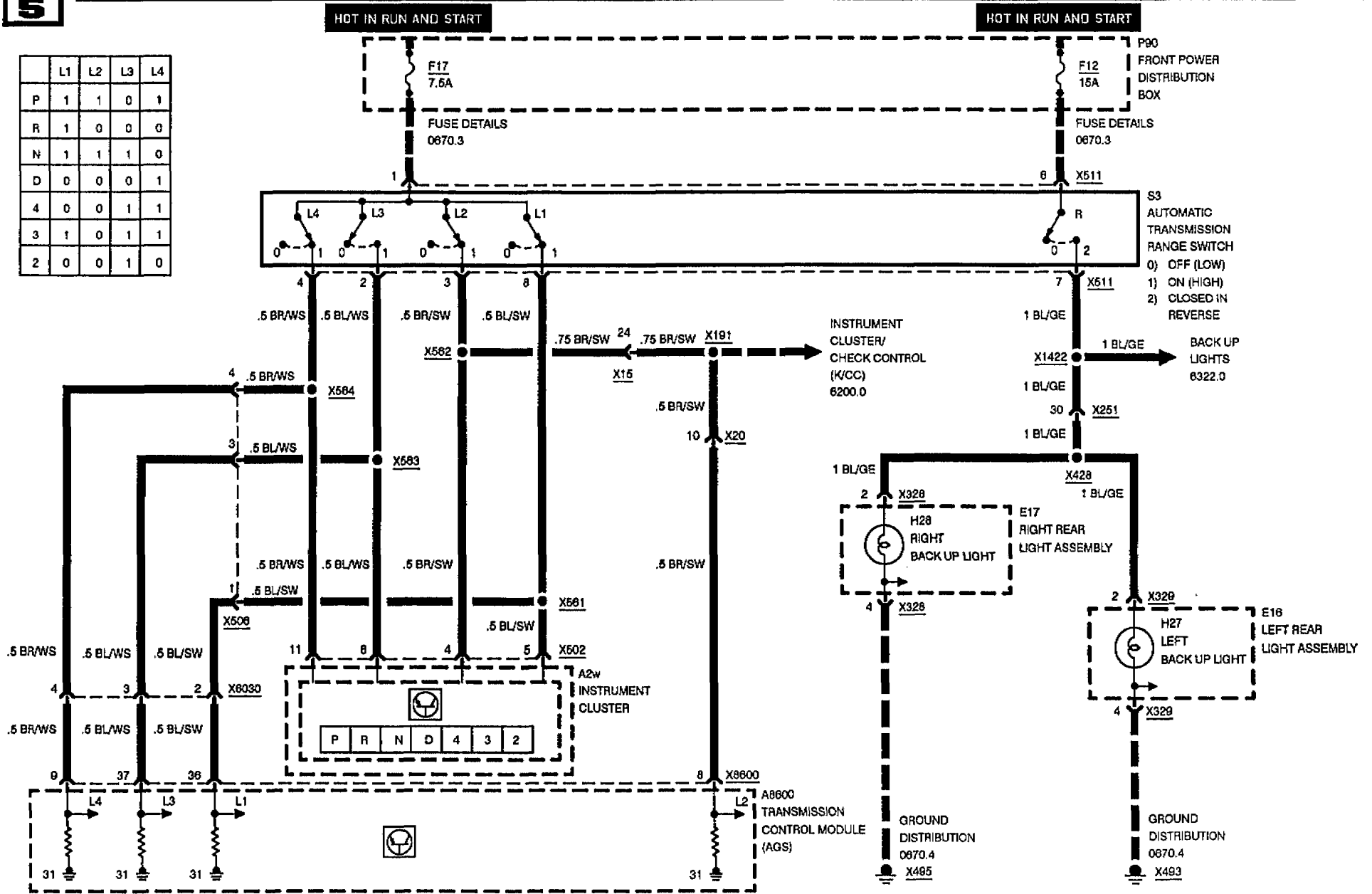






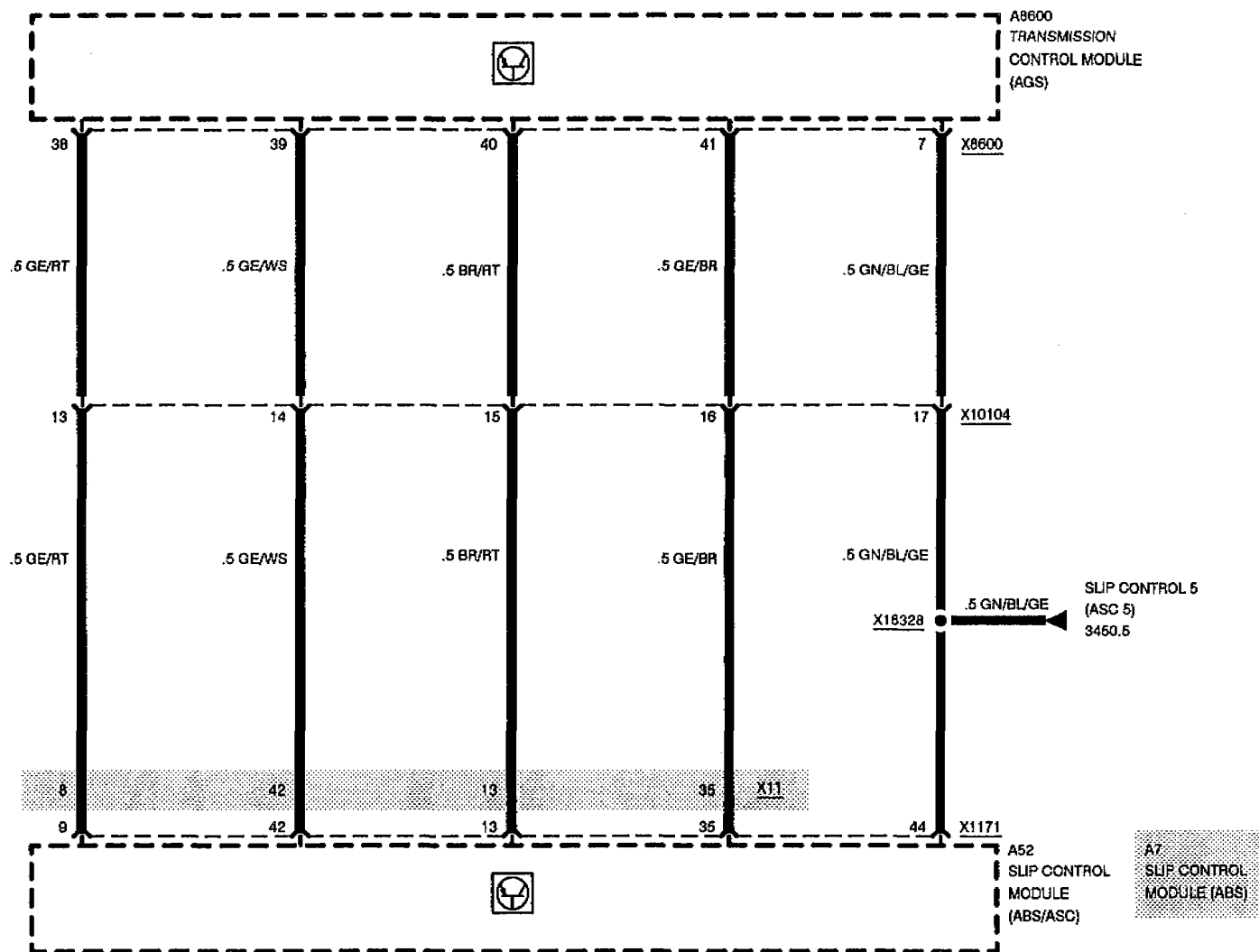
# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 7.32/ A5S 310Z)

	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





# ELECTRONIC TRANSMISSION CONTROL (AGS: GS 7.32/ A5S 310Z)

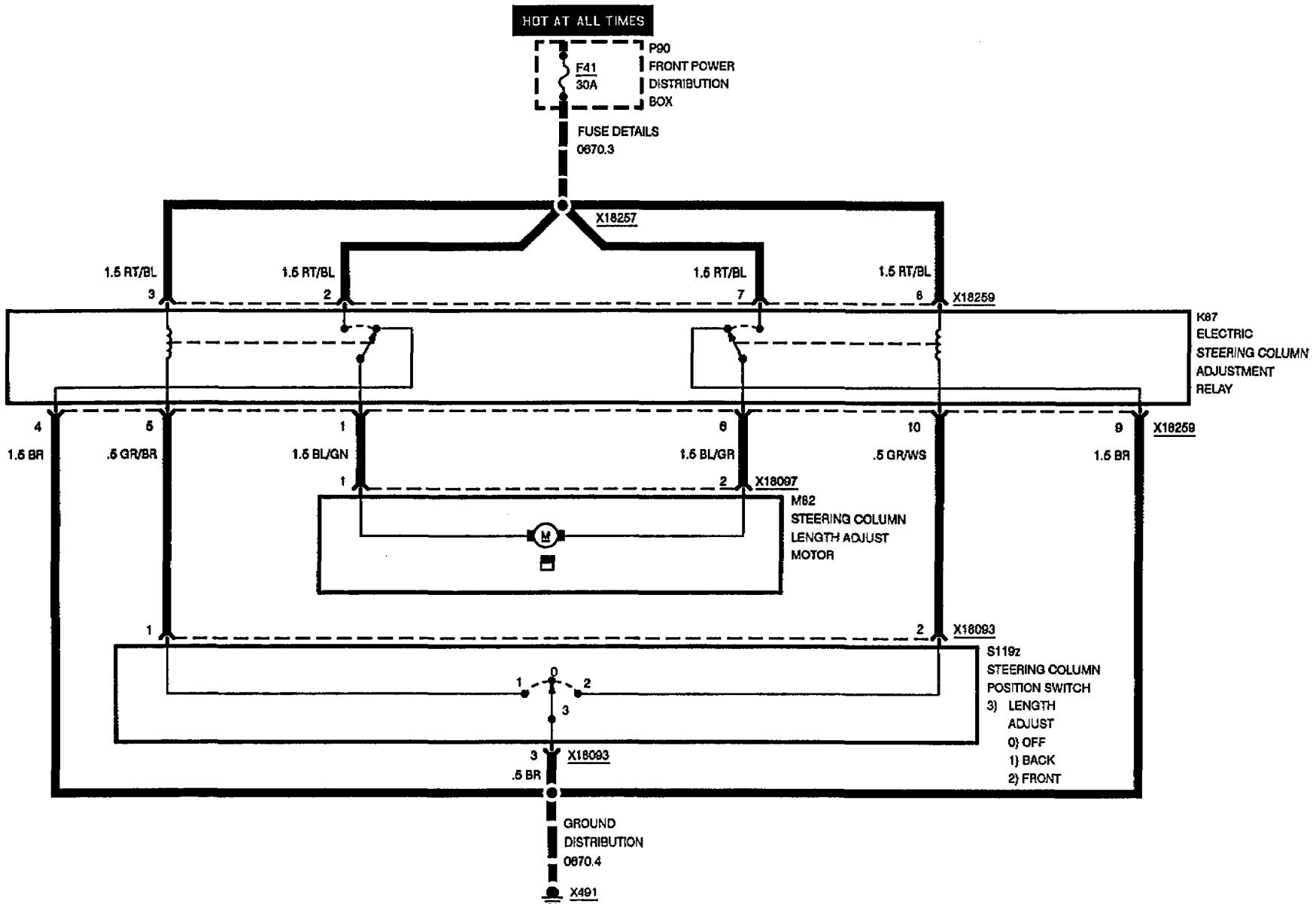




3231.0



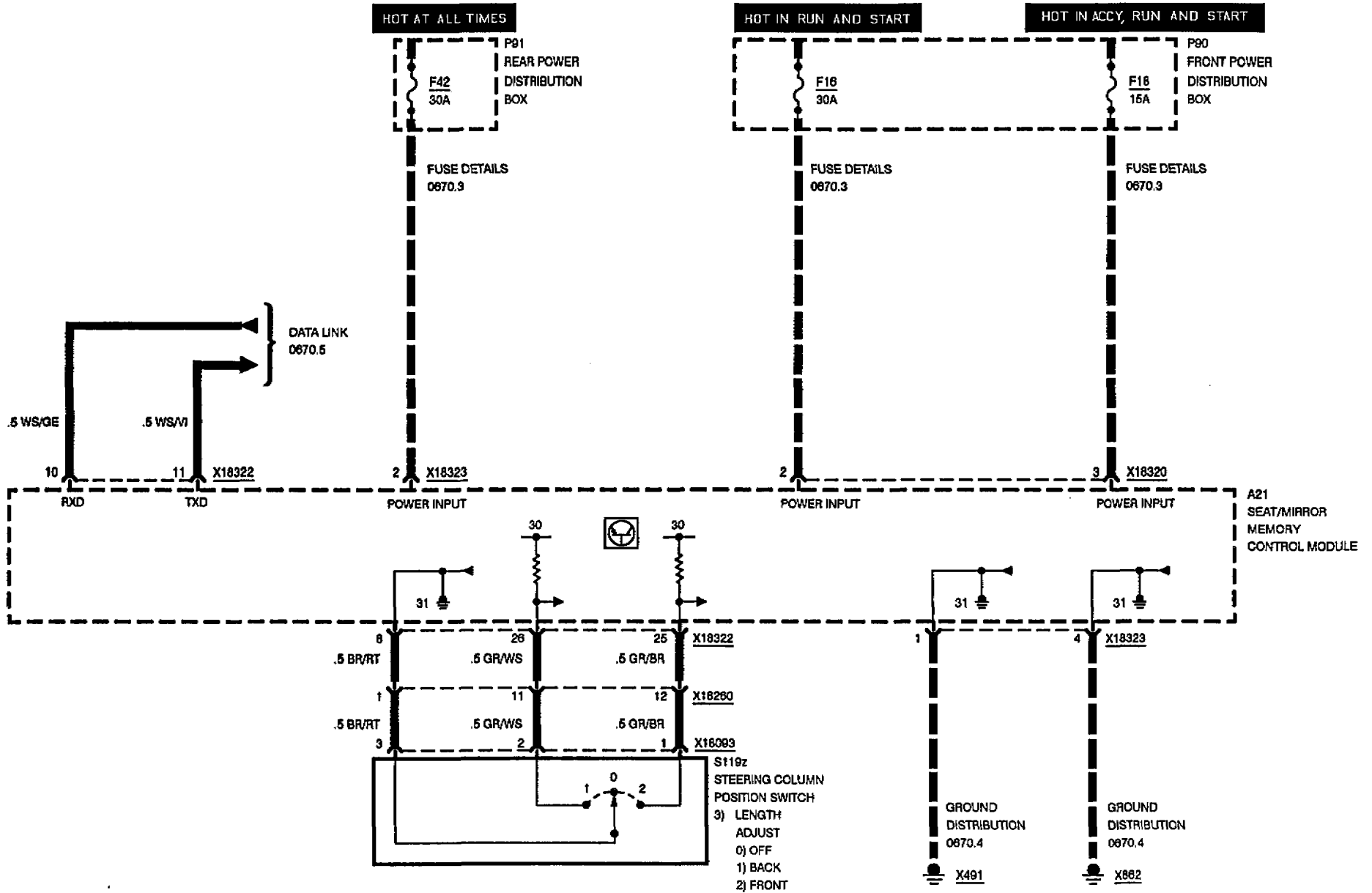
# ELECTRIC STEERING COLUMN ADJUSTMENT







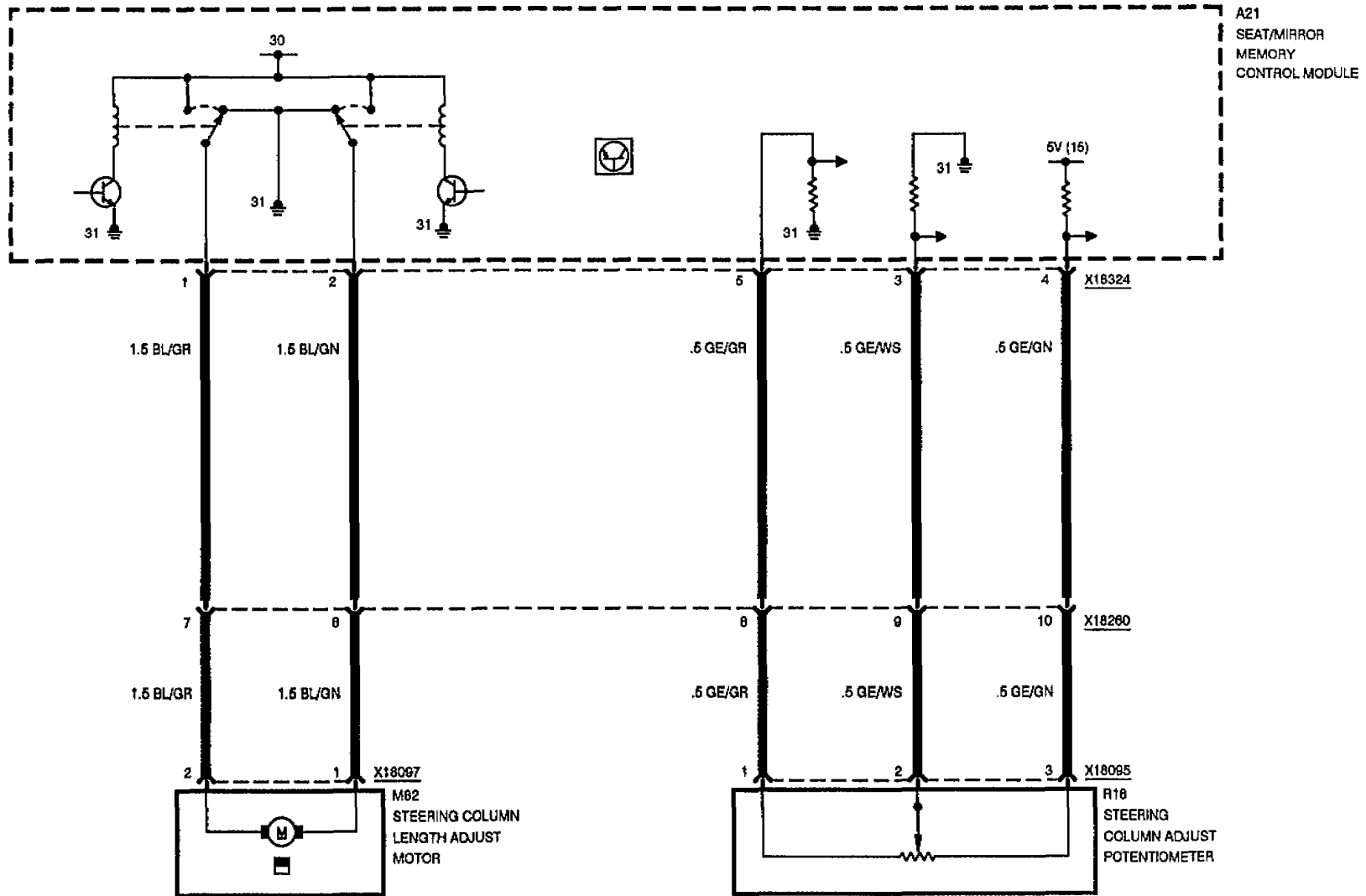
# STEERING COLUMN MEMORY (LSM) LENGTH ADJUST ONLY





# STEERING COLUMN MEMORY (LSM)

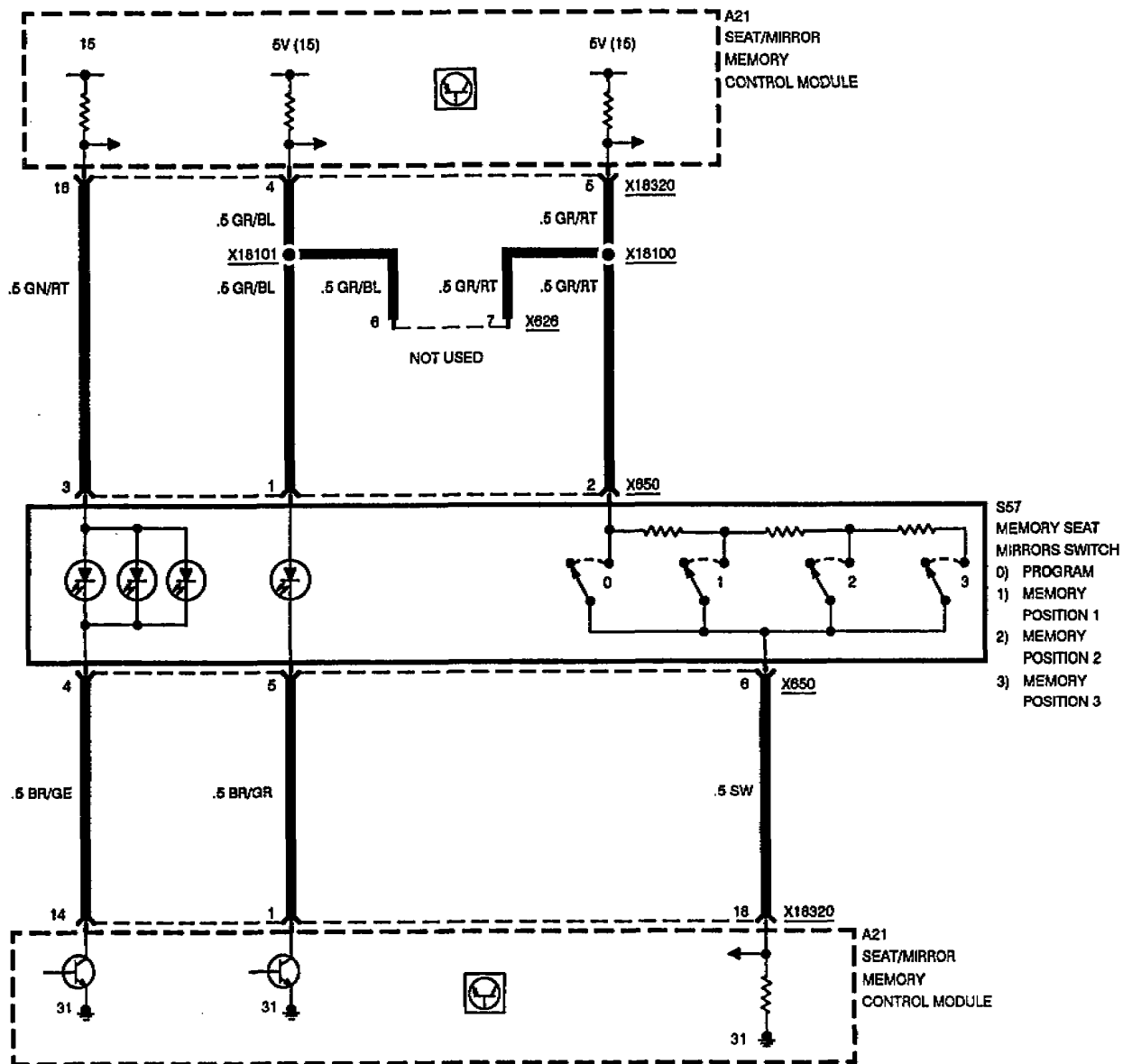
## LENGTH ADJUST ONLY





# STEERING COLUMN MEMORY (LSM)

## LENGTH ADJUST ONLY

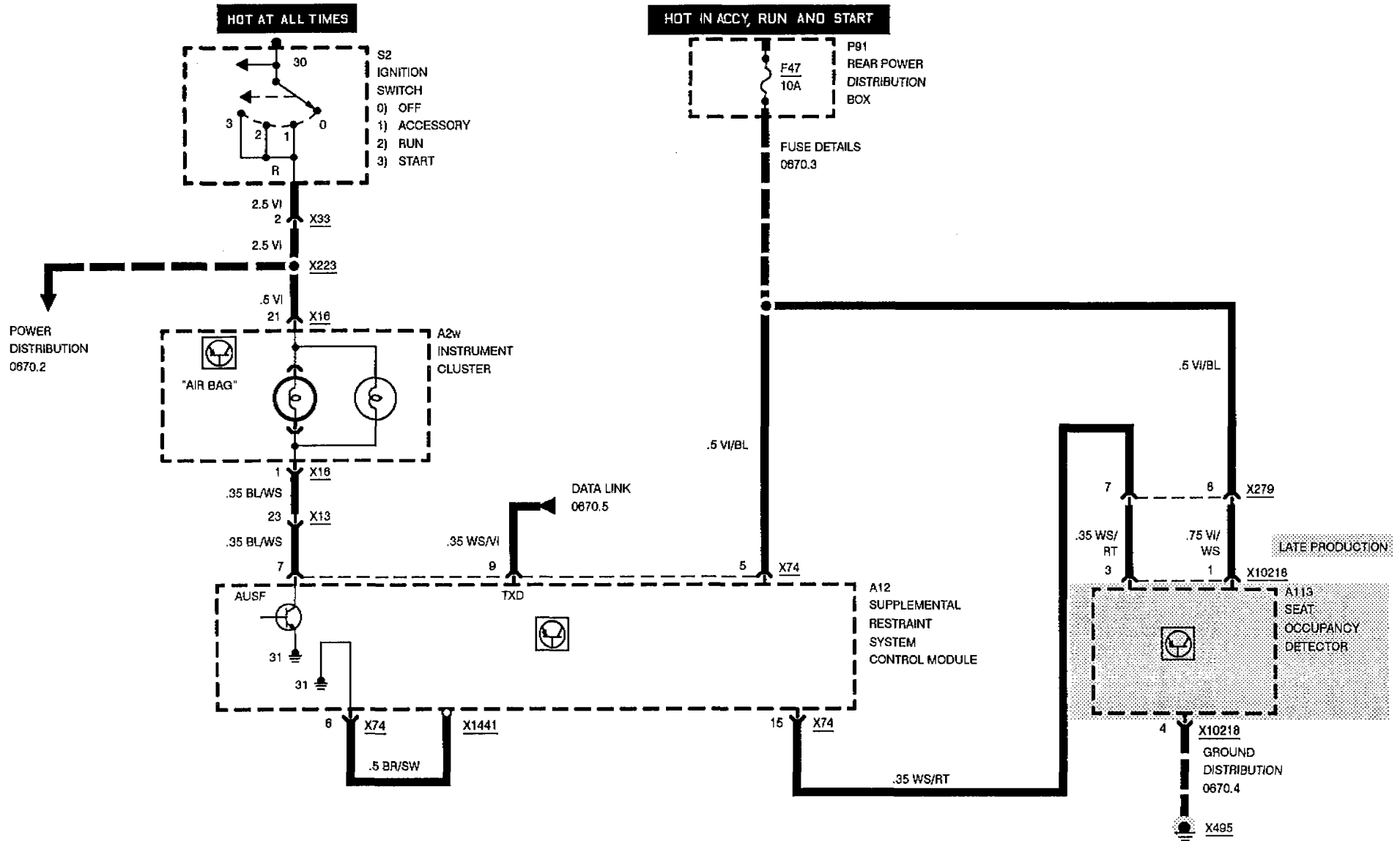




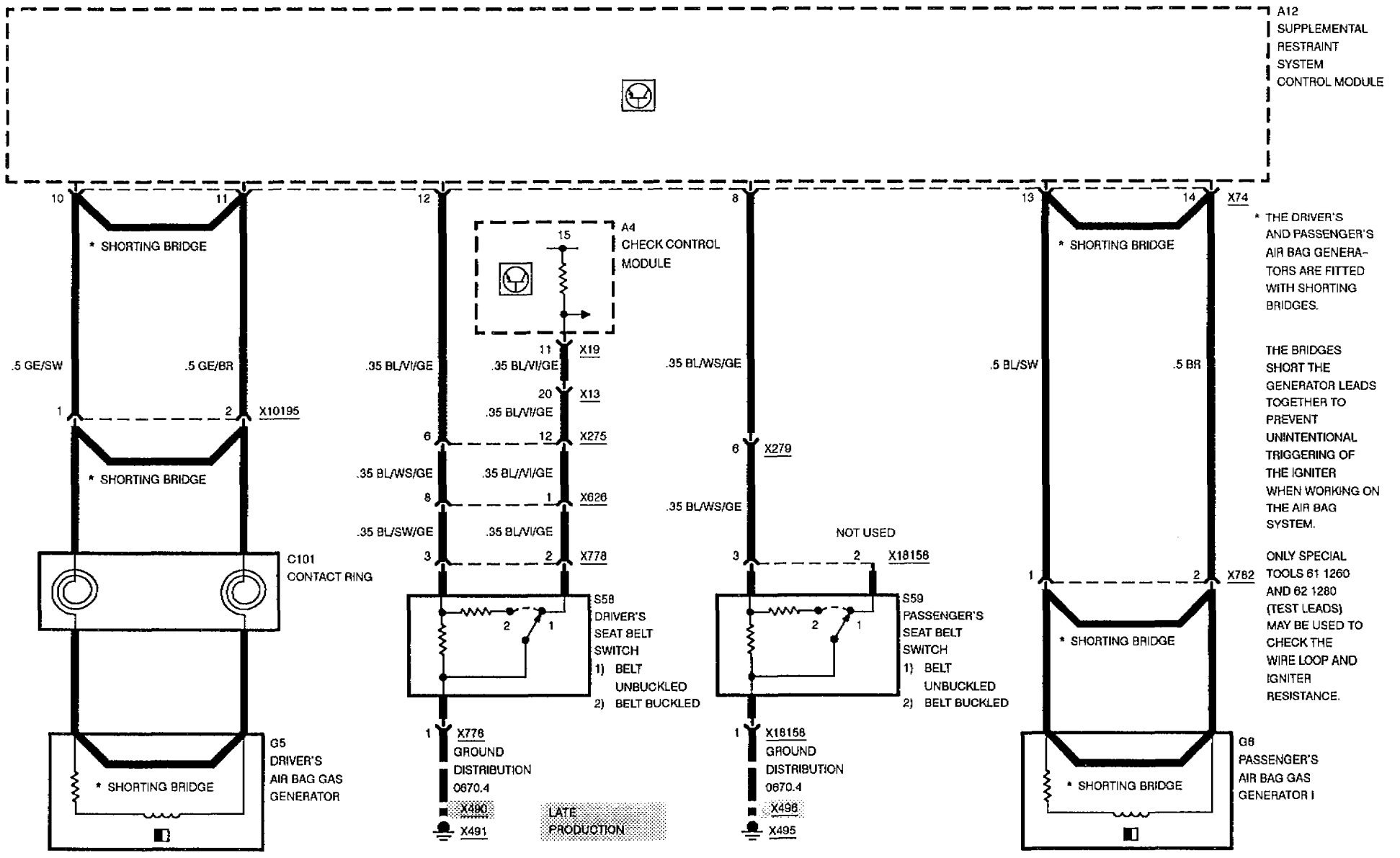
BMW  
5

3234.0

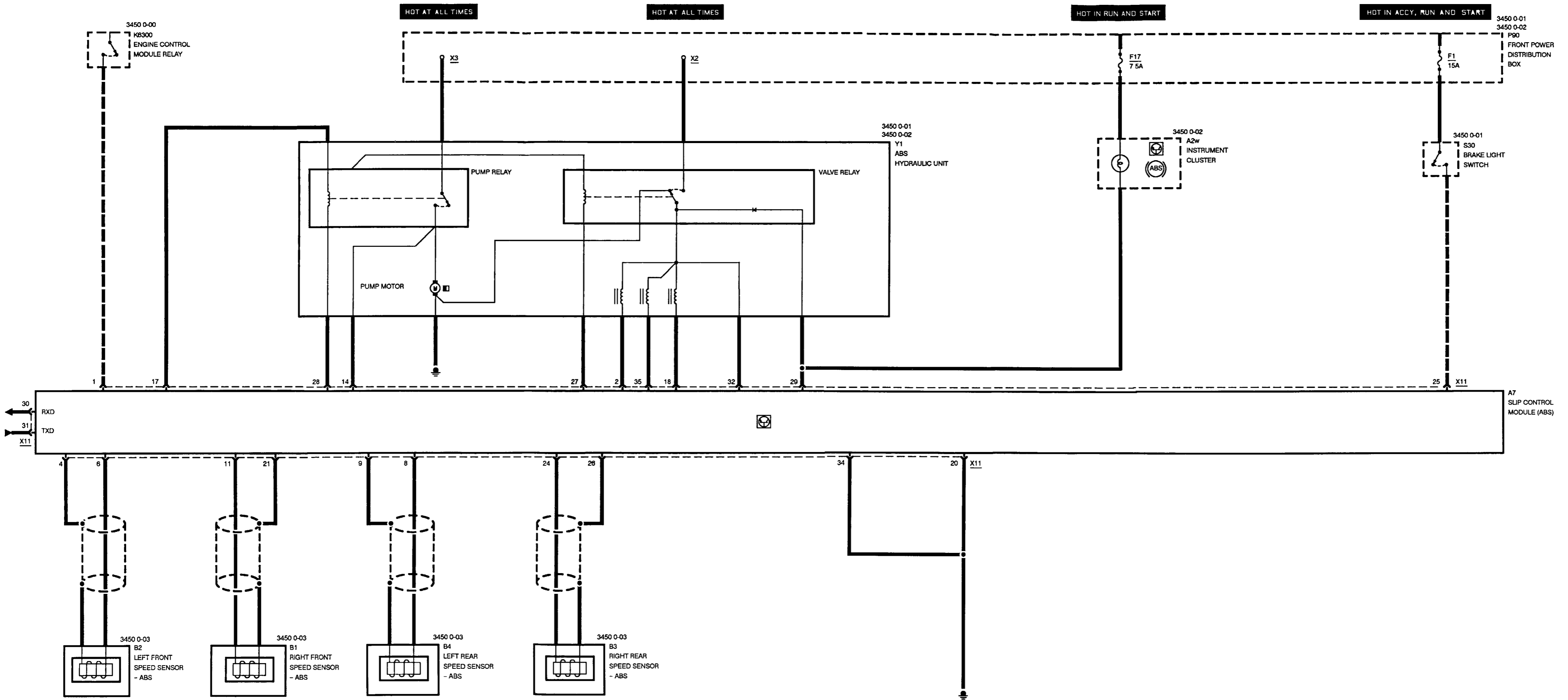
# SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

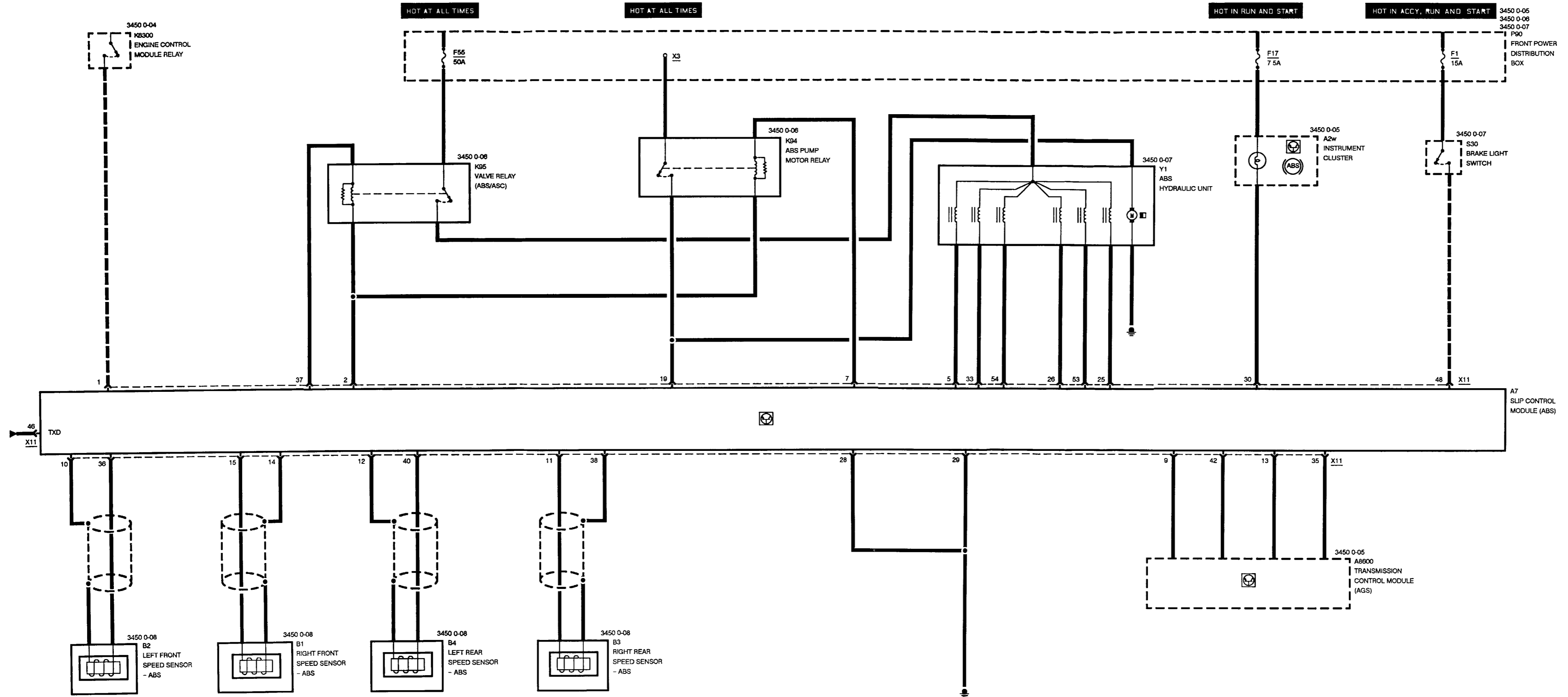


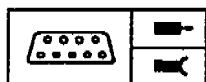
**SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)**









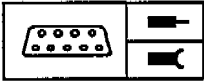


## Pin Assignments

### X11

Pin	Type	Description/Function	Connection
1	E	Terminal 30 voltage supply	Engine control module relay
2	A	Left front solenoid control	ABS hydraulic unit
3		Not used	
4	E	Speed sensor ground, FL	ABS left front wheel speed sensor
5		Not used	
6	E	Speed sensor signal, FL	ABS left front wheel speed sensor
7		Not used	
8	E	Speed sensor signal, RL	ABS left rear wheel speed sensor
9	E	Speed sensor ground, RL	ABS left rear wheel speed sensor
10		Not used	
11	E	Speed sensor signal, FR	ABS right front wheel speed sensor
12		Not used	
13		Not used	
14	E	Pump relay monitor	ABS hydraulic unit
15		Not used	
16		Not used	
17	A	Pump valve relay	ABS hydraulic unit
18	A	Rear solenoid control	ABS hydraulic unit
19		Not used	
20	M	Ground, control module	Ground point
21	E	Speed sensor ground, FR	ABS right front wheel speed sensor
22		Not used	
23		Not used	
24	E	Speed sensor signal, RR	ABS right rear wheel speed sensor
25	E	Brake pedal position	Brake light switch
26	E	Speed sensor ground, RR	ABS right rear wheel speed sensor
27	A	Valve relay control	ABS hydraulic unit
28	A	Pump motor relay control	ABS hydraulic unit
29	A	ABS warning lamp control	Instrument cluster
30	A	RxD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground

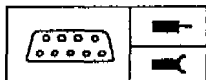


### Pin Assignments

Pin	Type	Description/Function	Connection
31	E/A	TxD diagnostic data link	Data link connector
32	E	Display, valve relay	ABS hydraulic unit
33		Not used	
34	M	Ground, control module	Ground point
35	A	Right front solenoid control	ABS hydraulic unit

E = Input, A = Output, M = Ground



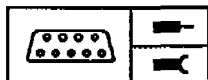


## Pin Assignments

### X11

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

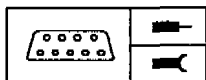
E = Input, A = Output, M = Ground



## Pin Assignments

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

E = Input, A = Output, M = Ground



### Pin Assignments

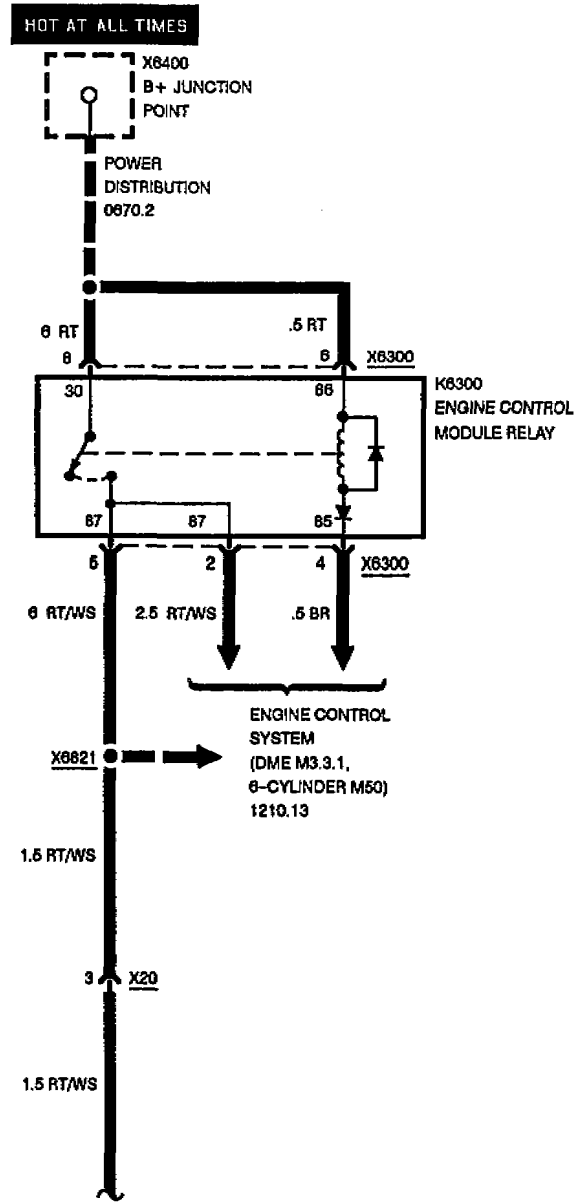
Pin	Type	Description/Function	Connection
62		Not used	
63		Not used	
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77		Not used	
78		Not used	
79		Not used	
80		Not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

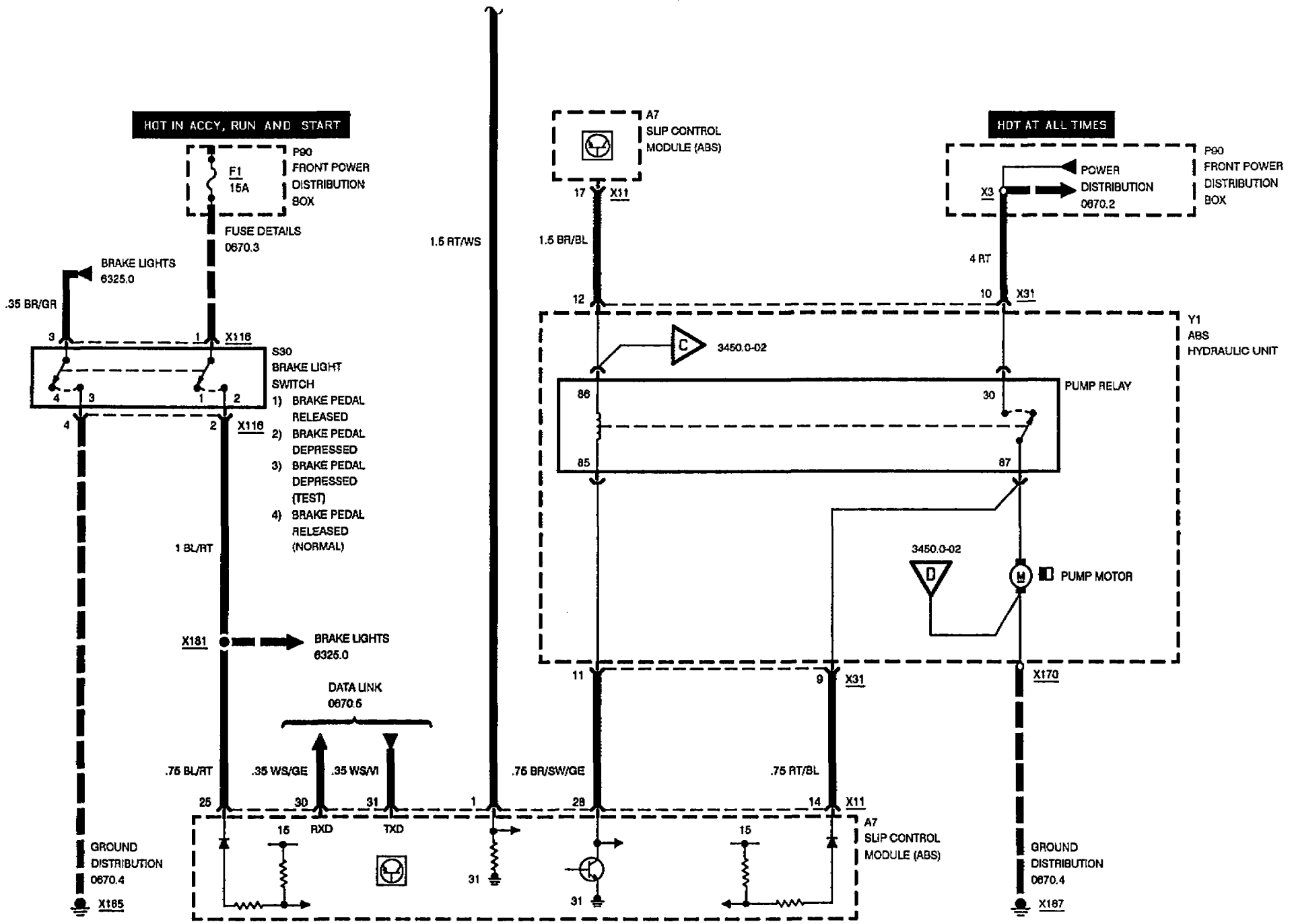
E = Input, A = Output, M = Ground



# SLIP CONTROL (ABS)

525i/t

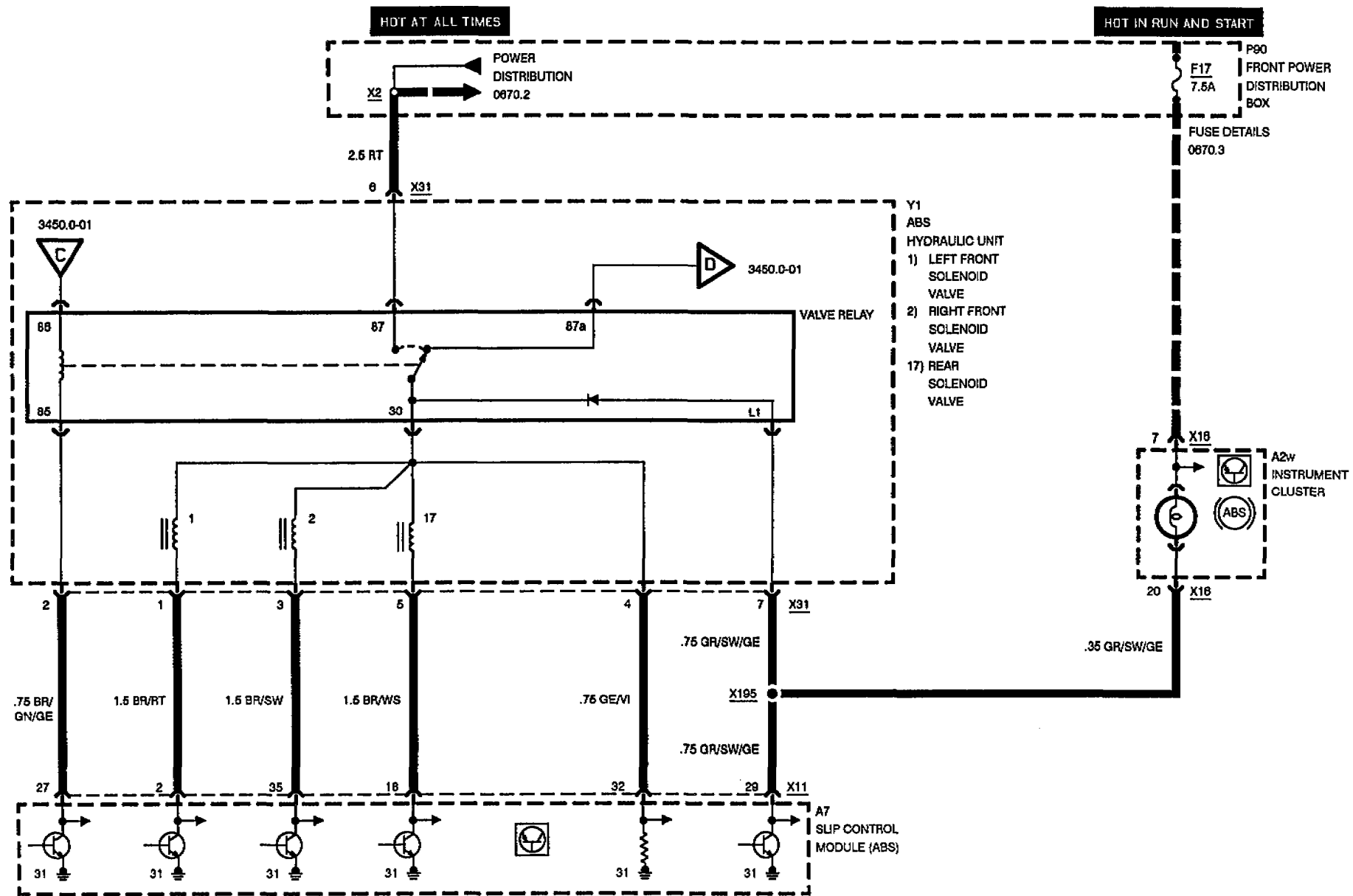


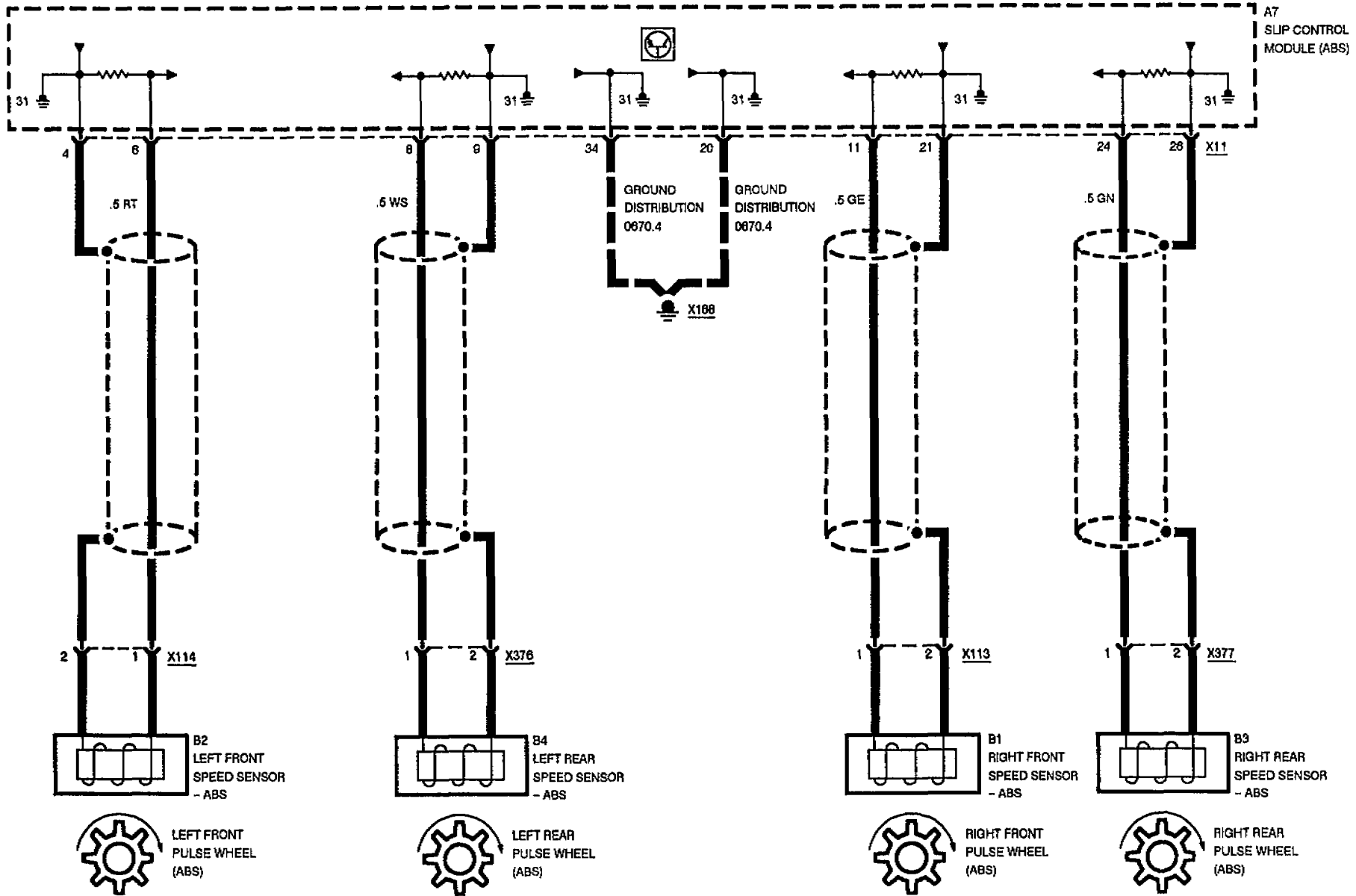




# SLIP CONTROL (ABS)

525i/t

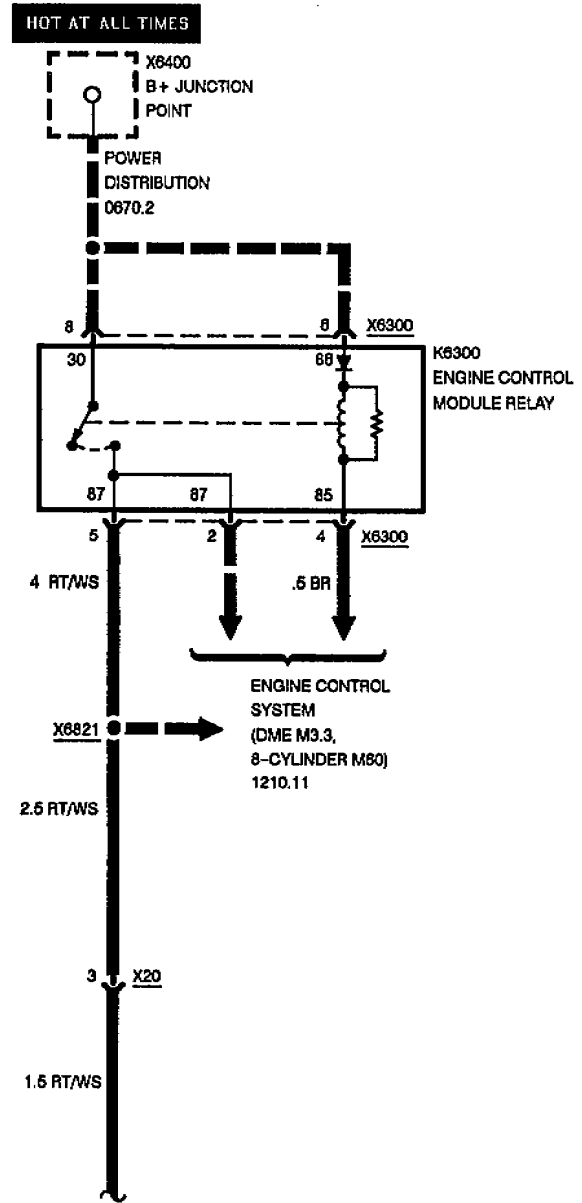






# SLIP CONTROL (ABS)

530i/t, 540i

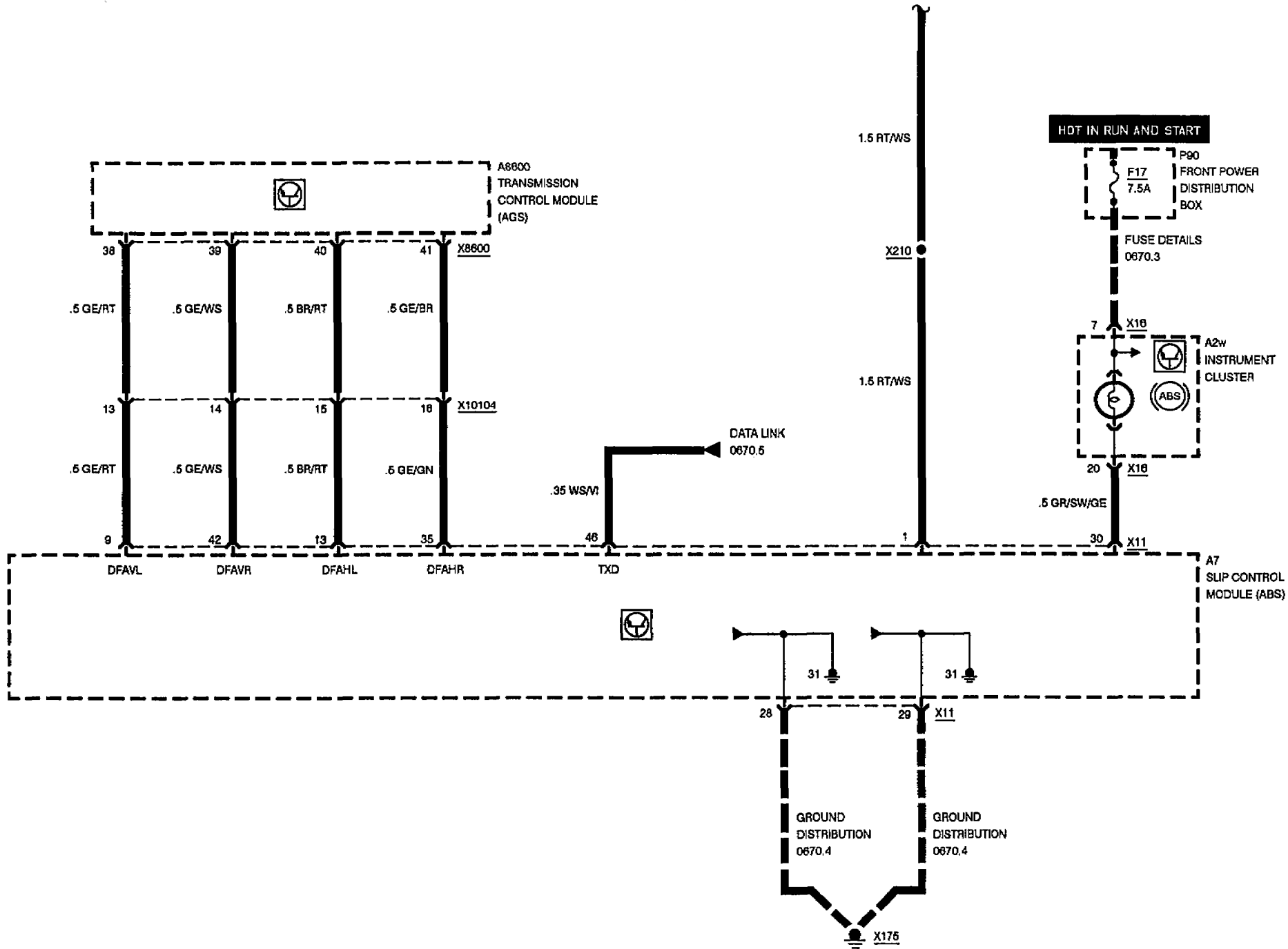


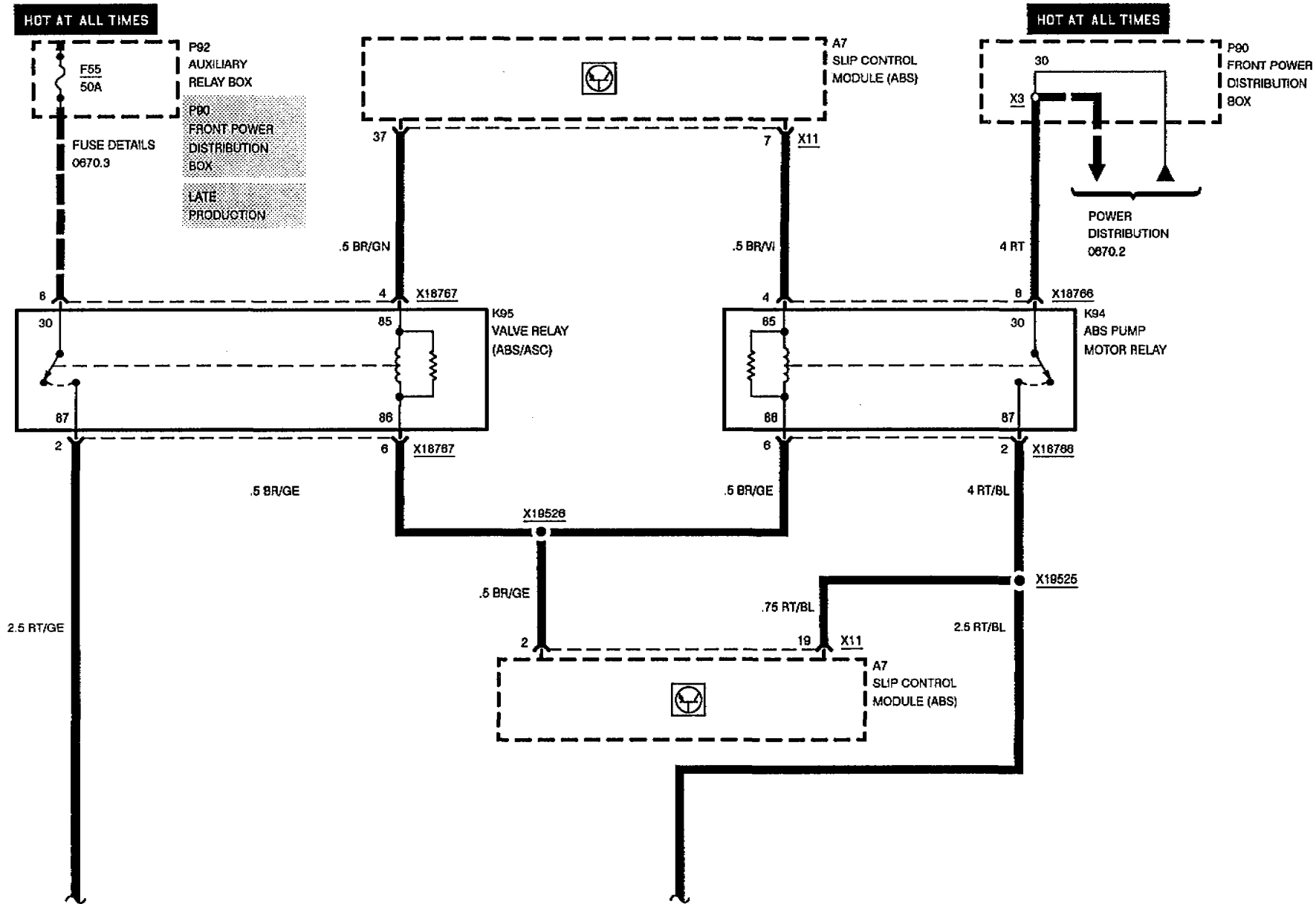
09/93

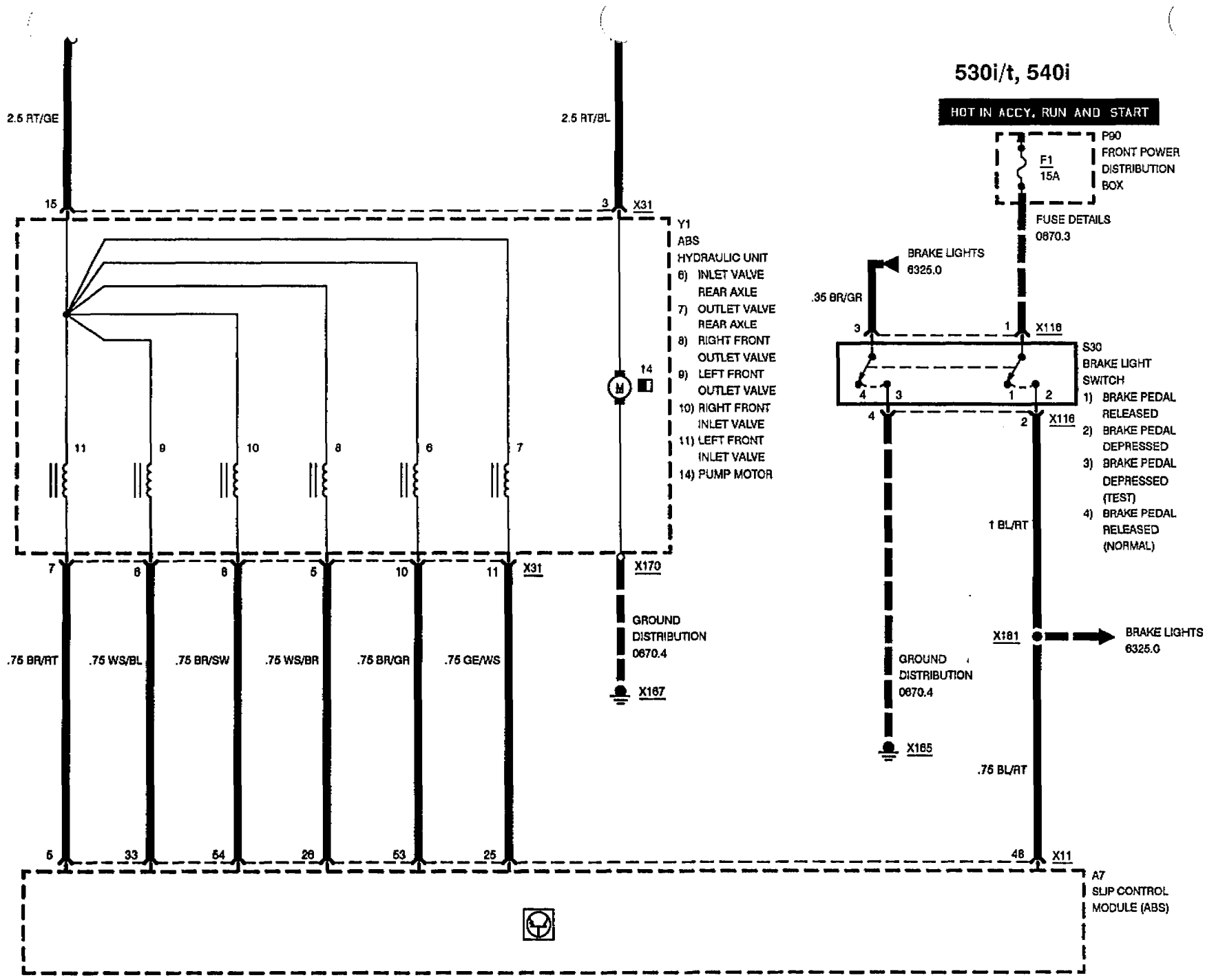
3450.0-04

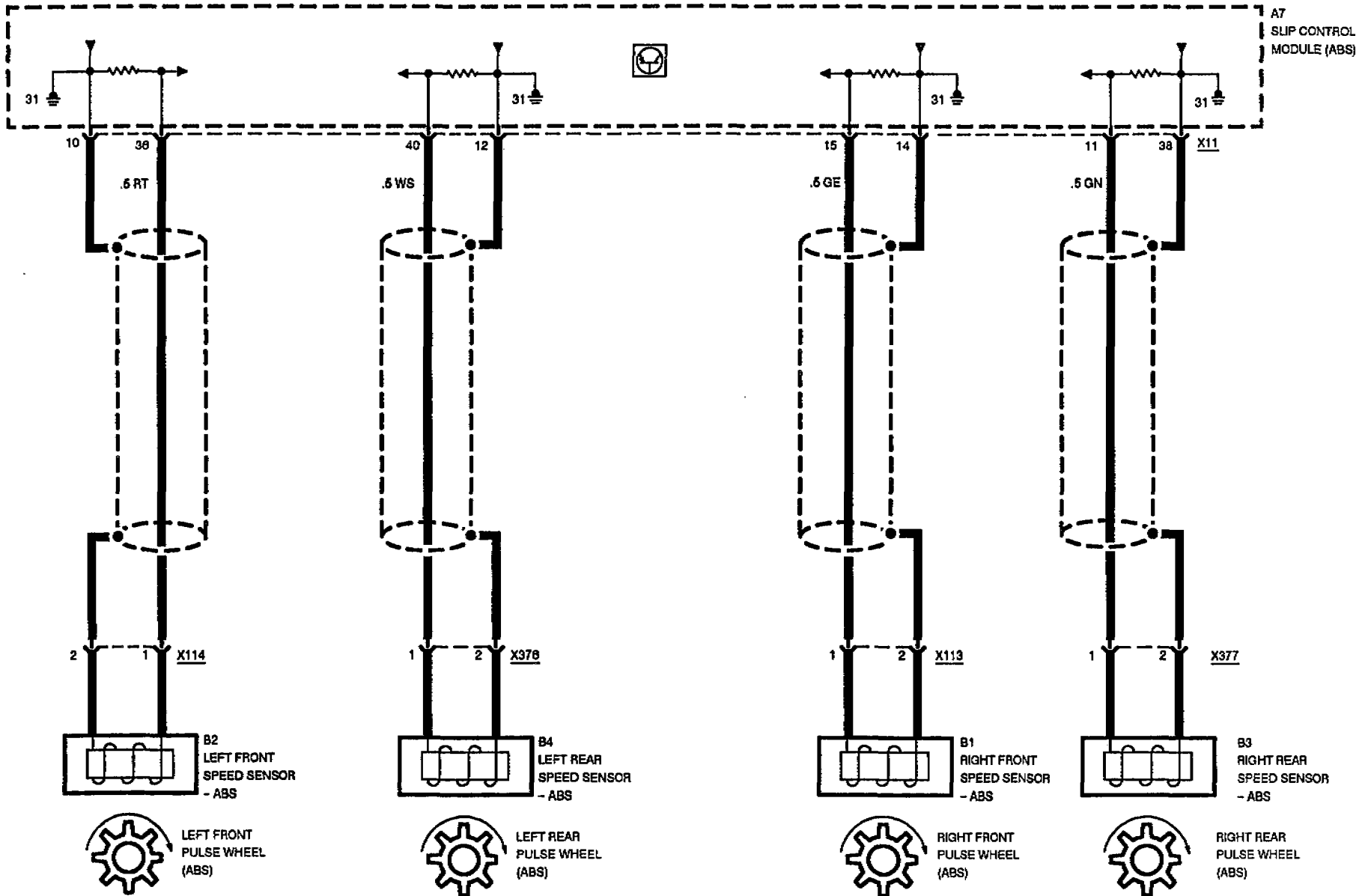
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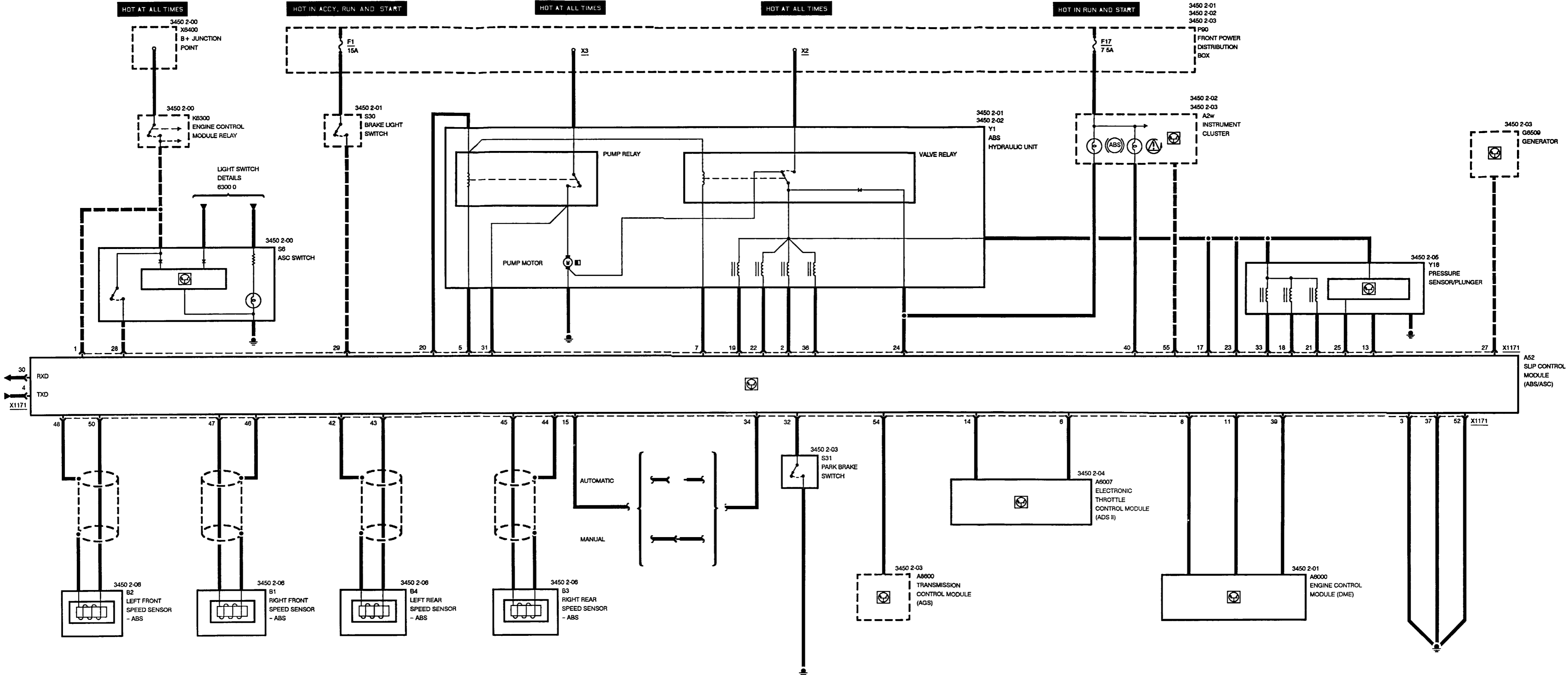


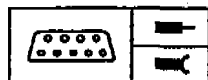










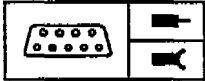


## Pin Assignments

### X1171

Pin	Type	Description/Function	Connection
1	E	Battery voltage	Engine control module relay
2	A	Signal solenoid valve left rear	ABS hydraulic unit
3	M	Ground	Ground point
4	E/A	TXD diagnostic data link	Data link connector
5	A	Signal pump relay	Hydraulic unit
6	A	Throttle reduction	Electronic throttle control module
7	A	Signal valve relay	Hydraulic unit
8	A	Throttle valve increase	Engine control module (DME)
9		Not used	
10		Not used	
11	E	Plus supply, terminal 30	Engine control module (DME)
12		Not used	
13	E	Operating pressure signal	Pressure sensor/plunger
14	E	Set throttle value	Electronic throttle control module
15	A	Coding plug manual transmission	Pin 34
16		Not used	
17	E	Voltage from valve relay	ABS hydraulic unit/plunger
18	A	Solenoid valve right rear	Pressure sensor/plunger
19	A	Signal solenoid valve left front	ABS hydraulic unit
20	A	Pump/valve relay	ABS hydraulic unit
21	A	Solenoid valve left rear	Pressure sensor/plunger
22	A	Signal solenoid valve right front	ABS hydraulic unit
23	E	Voltage from valve relay	ABS hydraulic unit/plunger
24	A	ABS warning lamp control	Instrument cluster
25	E	Accumulator warning treshold	Pressure sensor/plunger
26		Not used	
27	E	D+ (terminal 61d)	Generator
28	E	ASC passive button voltage signal	ASC switch
29	E	Brake light signal	Brake light switch
30	A	RXD diagnostic data link	Data link connector

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
31	E	Motor relay signal	Hydraulic unit
32	E	Brake pedal position	Brake light switch
33	A	Recharging valve	Pressure sensor/plunger
34	E	Coding plug manual transmission	Pin 15
35		Not used	
36	A	Signal solenoid valve right rear	ABS hydraulic unit
37	M	Ground	Ground point
38		Not used	
39	A	Ignition angle adjustment	Engine control module (DME)
40	A	ASC multi-function lamp	Instrument cluster
41		Not used	
42	E	Speed sensor ground	Left rear speed sensor ABS
43	E	Speed sensor signal	Left rear speed sensor ABS
44	E	Speed sensor ground	Right rear speed sensor ABS
45	E	Speed sensor signal	Right rear speed sensor ABS
46	E	Speed sensor ground	Right front speed sensor ABS
47	E	Speed sensor signal	Right front speed sensor ABS
48	E	Speed sensor ground	Left front speed sensor ABS
49		Not used	
50	E	Speed sensor signal	Left front speed sensor ABS
51		Not used	
52	M	Ground	Ground point
53		Not used	
54	A	Signal transmission intervention	Transmission control module (AGS)
55	E	Engine speed signal	Instrument cluster

E = Input, A = Output, M = Ground

BMW  
5

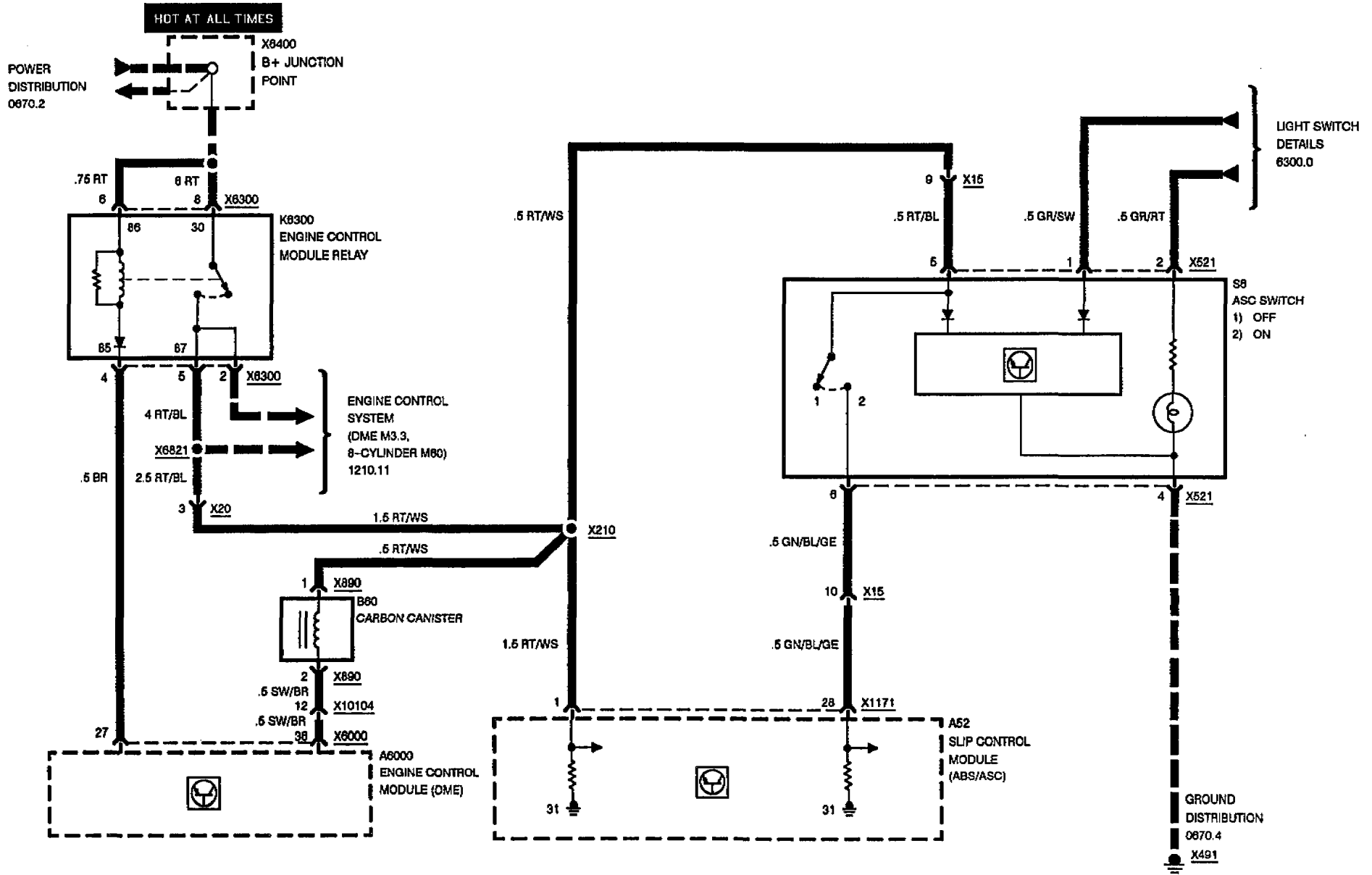
3450.2





# SLIP CONTROL (ABS/ASC+T)

SOP 02/93 530i/t, 540i

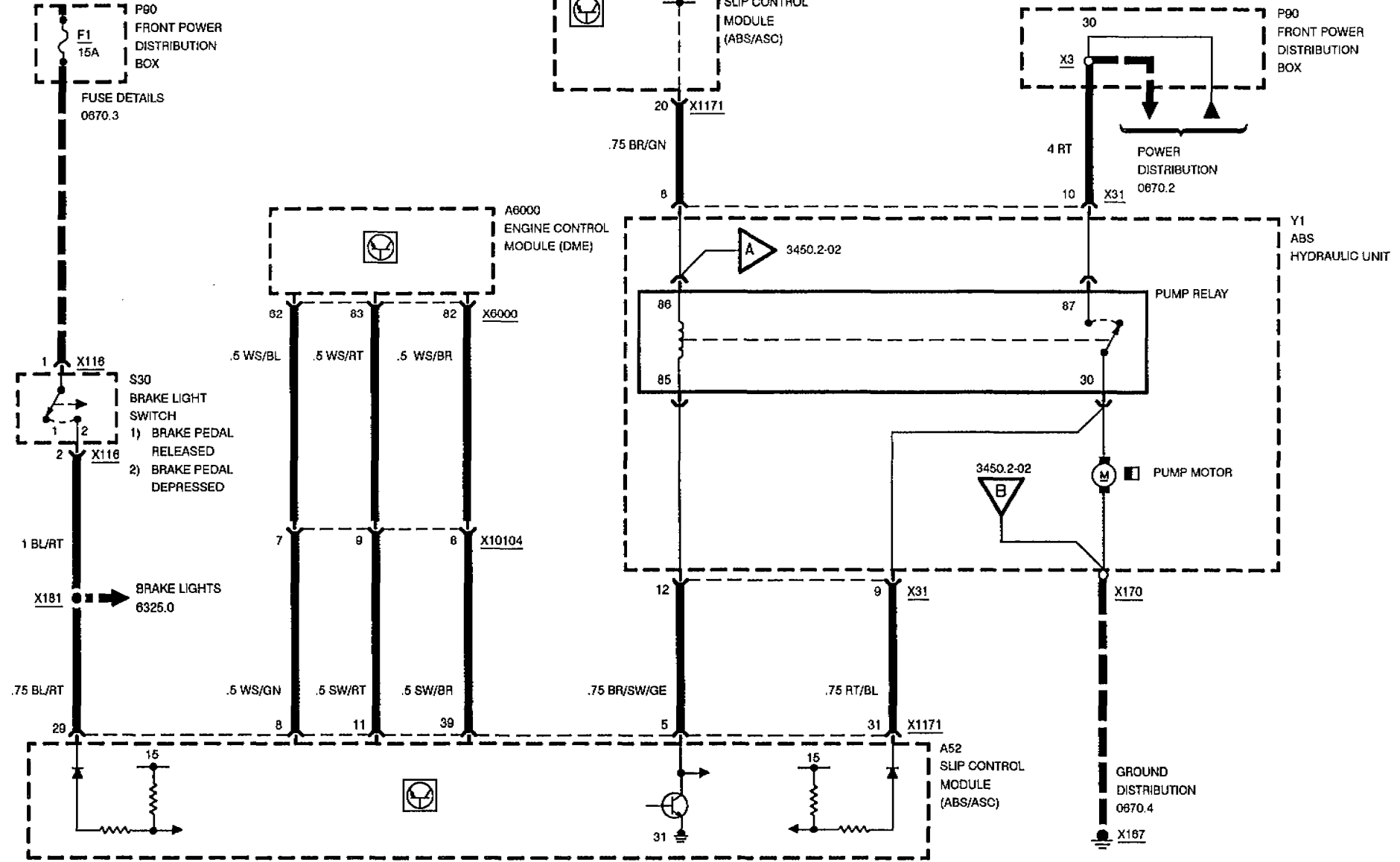




# SLIP CONTROL (ABS/ASC+T)

SOP 02/93 530i/t, 540i

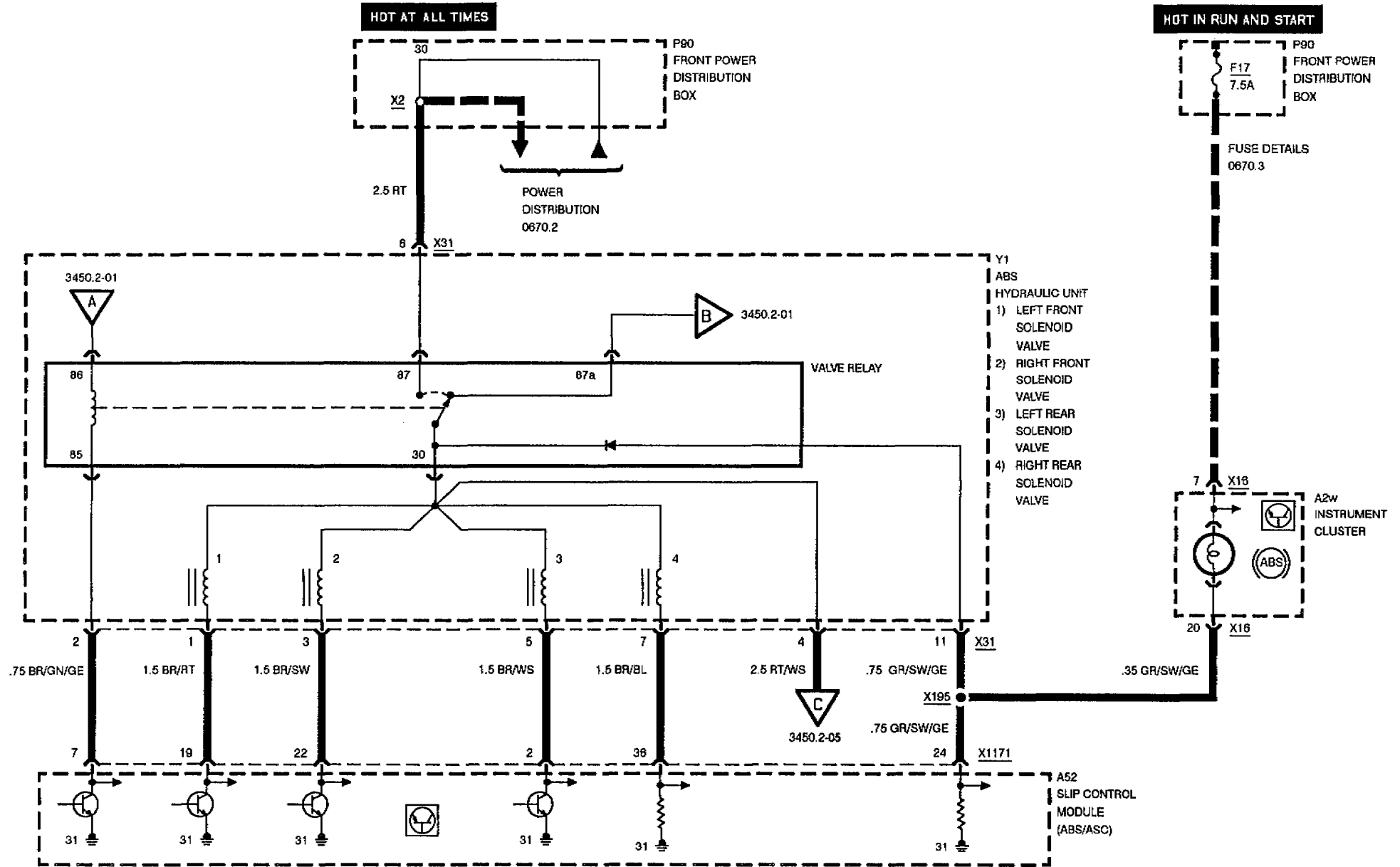
**HOT IN ACCY, RUN AND START**





# SLIP CONTROL (ABS/ASC + T)

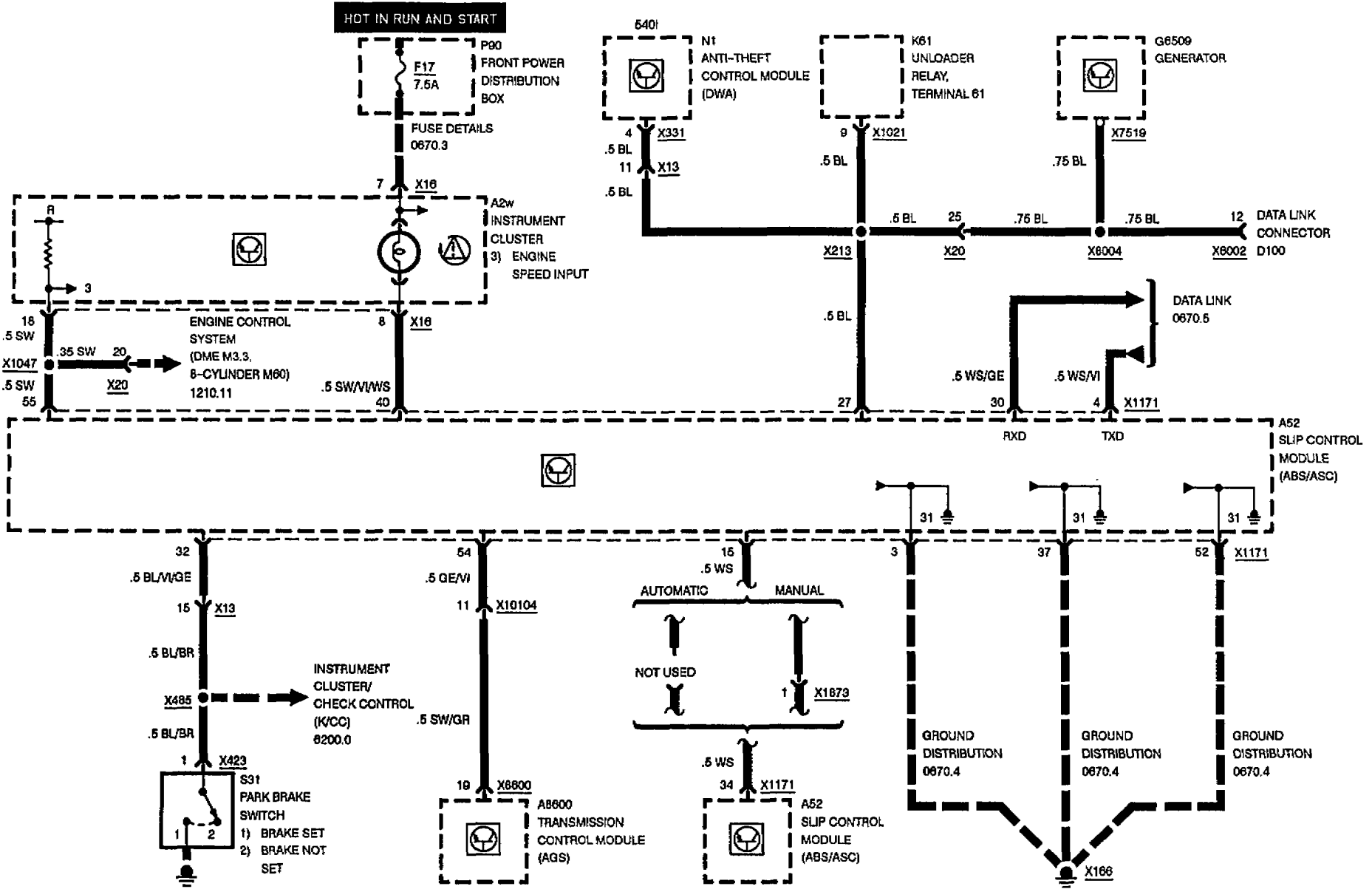
SOP 02/93 530i/t, 540i





# SLIP CONTROL (ABS/ASC + T)

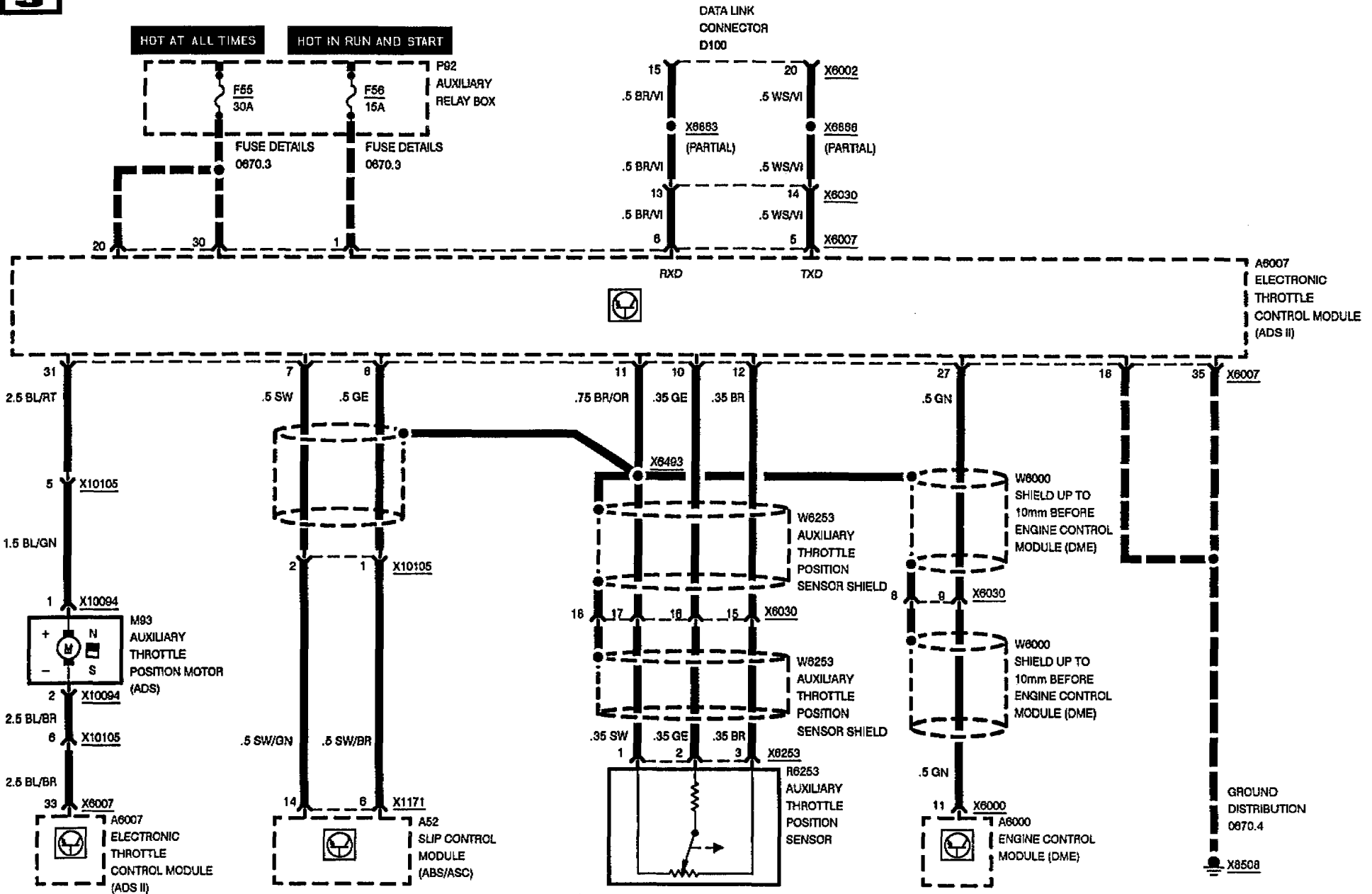
SOP 02/93 530i/t, 540i

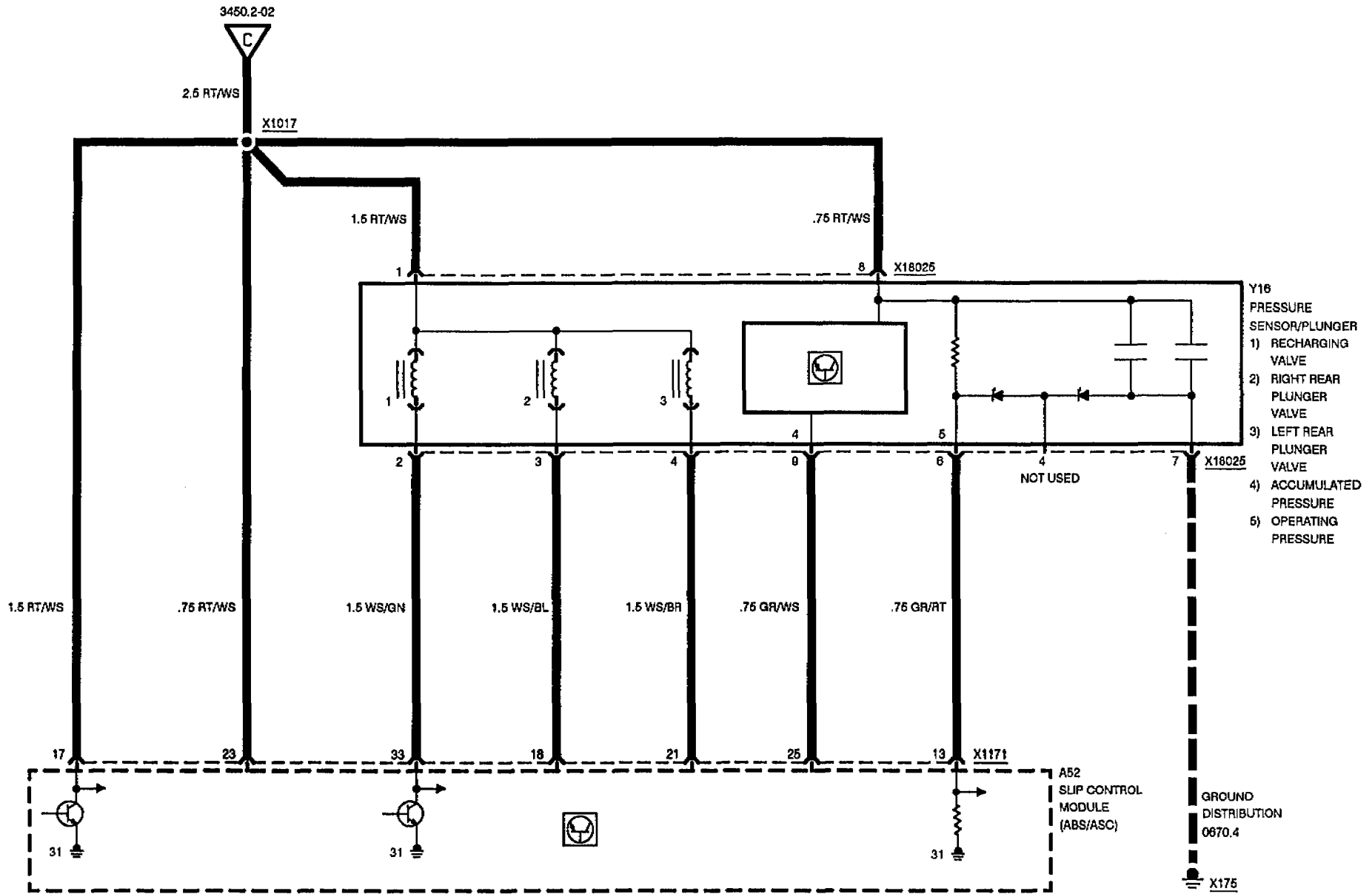


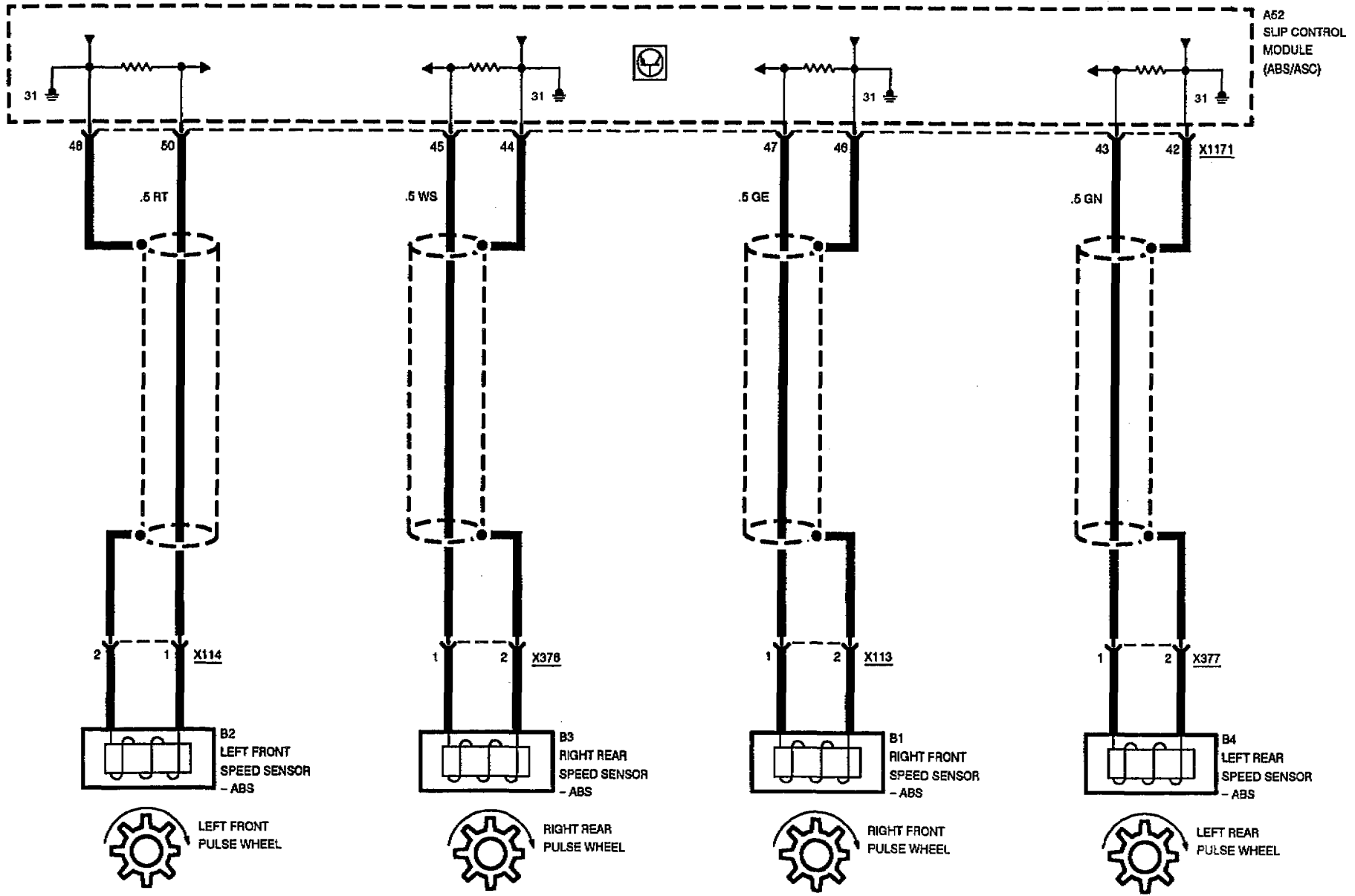


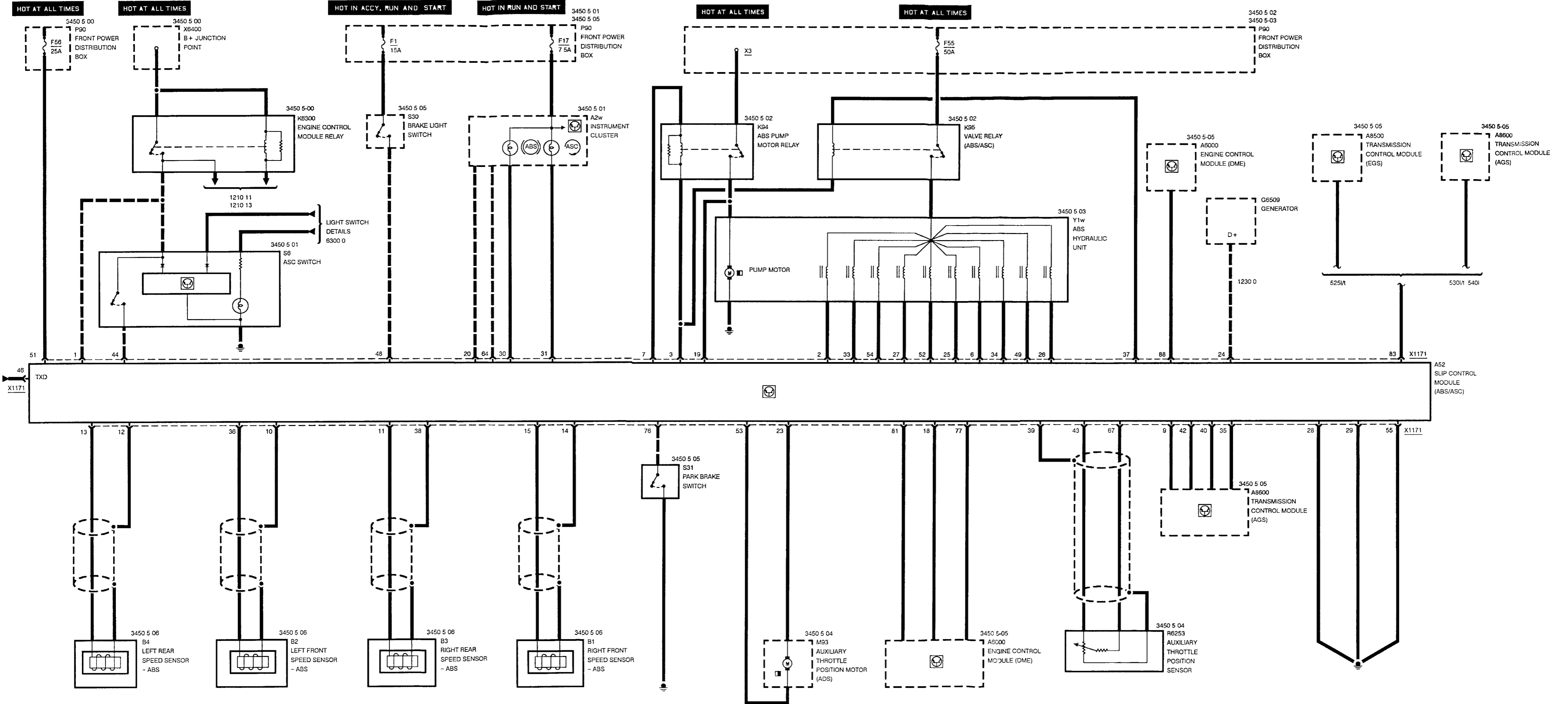
# SLIP CONTROL (ABS/ASC + T)

## SOP 02/93 530i/t, 540i

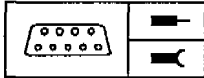










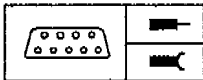


## Pin Assignments

### X1171

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

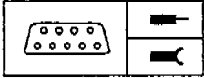
E = Input, A = Output, M = Ground



## Pin Assignments

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

E = Input, A = Output, M = Ground



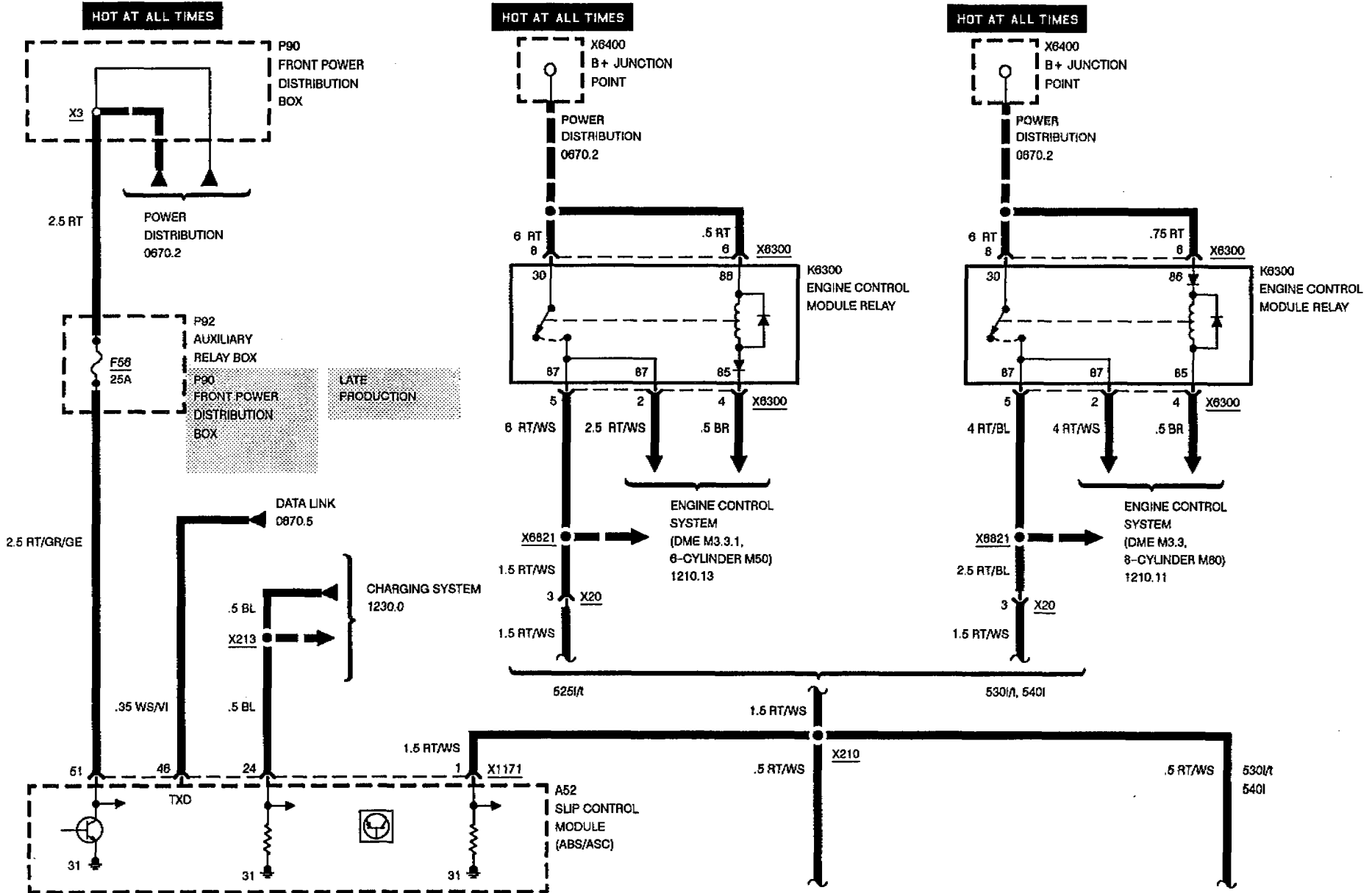
## Pin Assignments

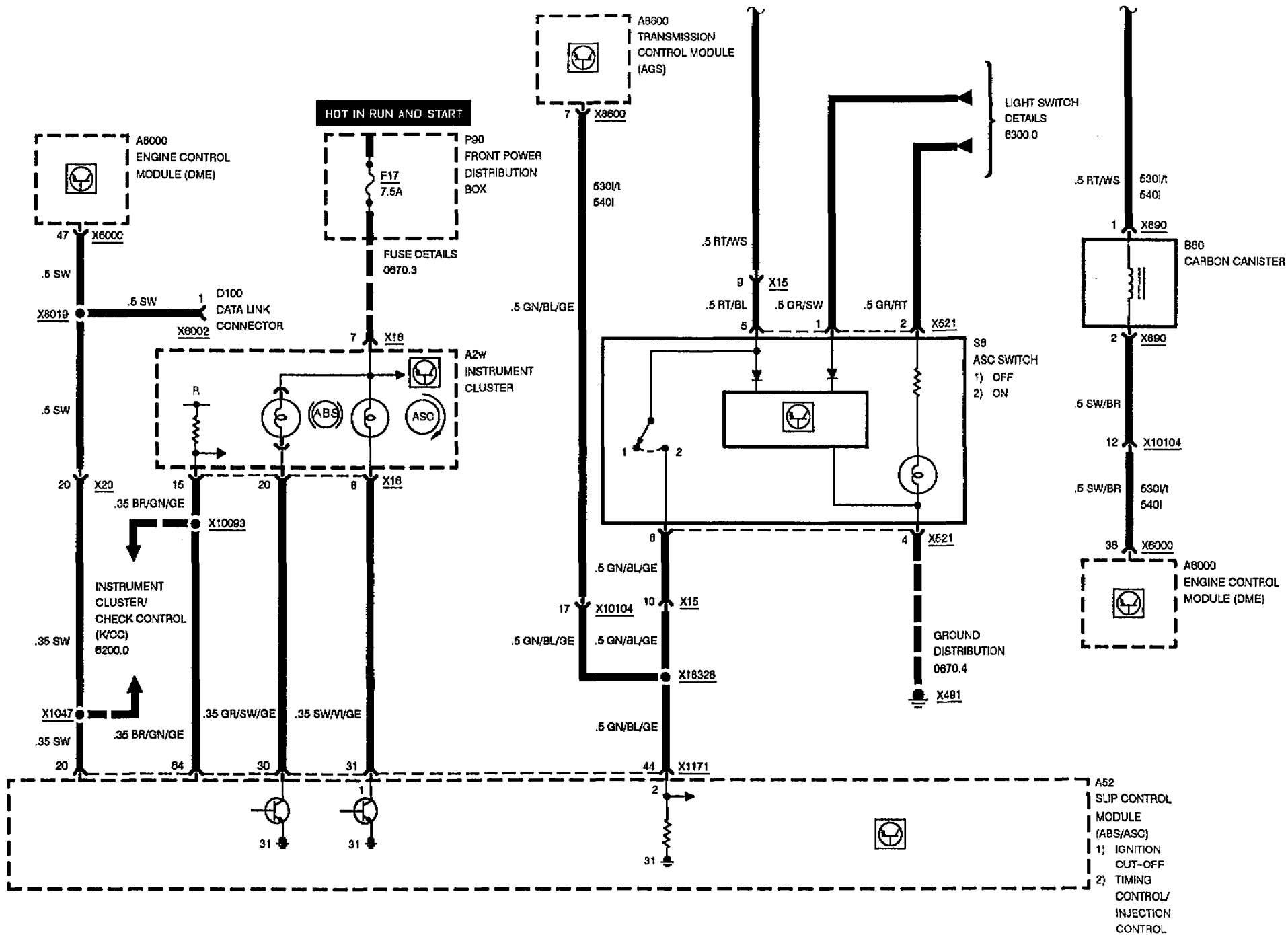
Pin	Type	Description/Function	Connection
61		Not used	
62		Not used	
63		Not used	
64	E	Brake fluid warning lamp signal	Instrument cluster
65		Not used	
66		Not used	
67	E	Throttle control potentiometer, signal	Throttle flap potentiometer (ASC)
68		Not used	
69		Not used	
70		Not used	
71		Not used	
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76	E	Park brake signal	Park brake switch
77	A	Ignition timing set	Engine control module (DME)
78		Not used	
79		Not used	
80		Not used	
81	E	Signal line	Engine control module (DME)
82		Not used	
83	A	Transmission intervention	Transmission control unit (AGS/EGS)
84		Not used	
85		Not used	
86		Not used	
87		Not used	
88	E	Throttle angle signal	Transmission control unit (AGS)

E = Input, A = Output, M = Ground



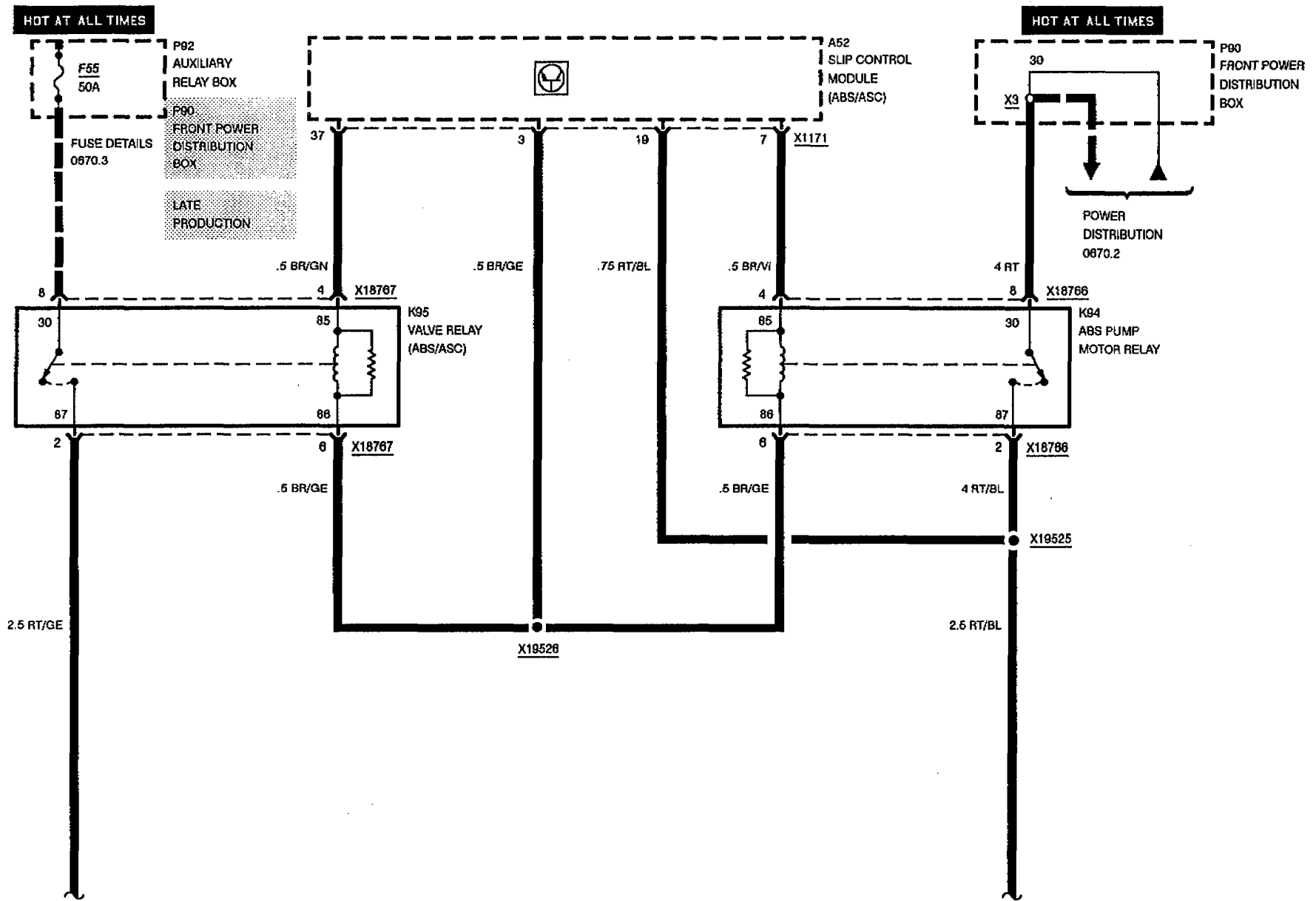
# SLIP CONTROL 5 (ASC 5)

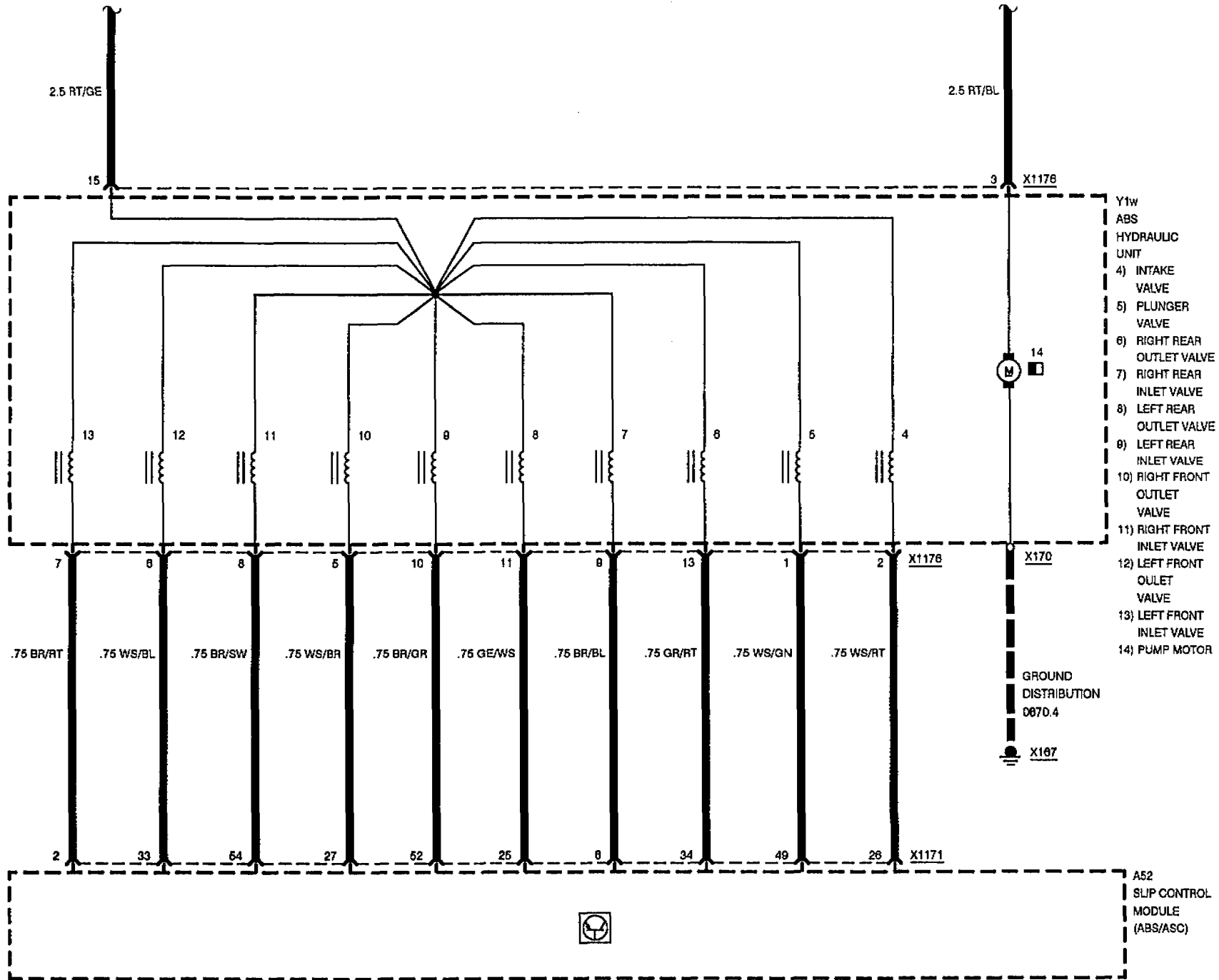




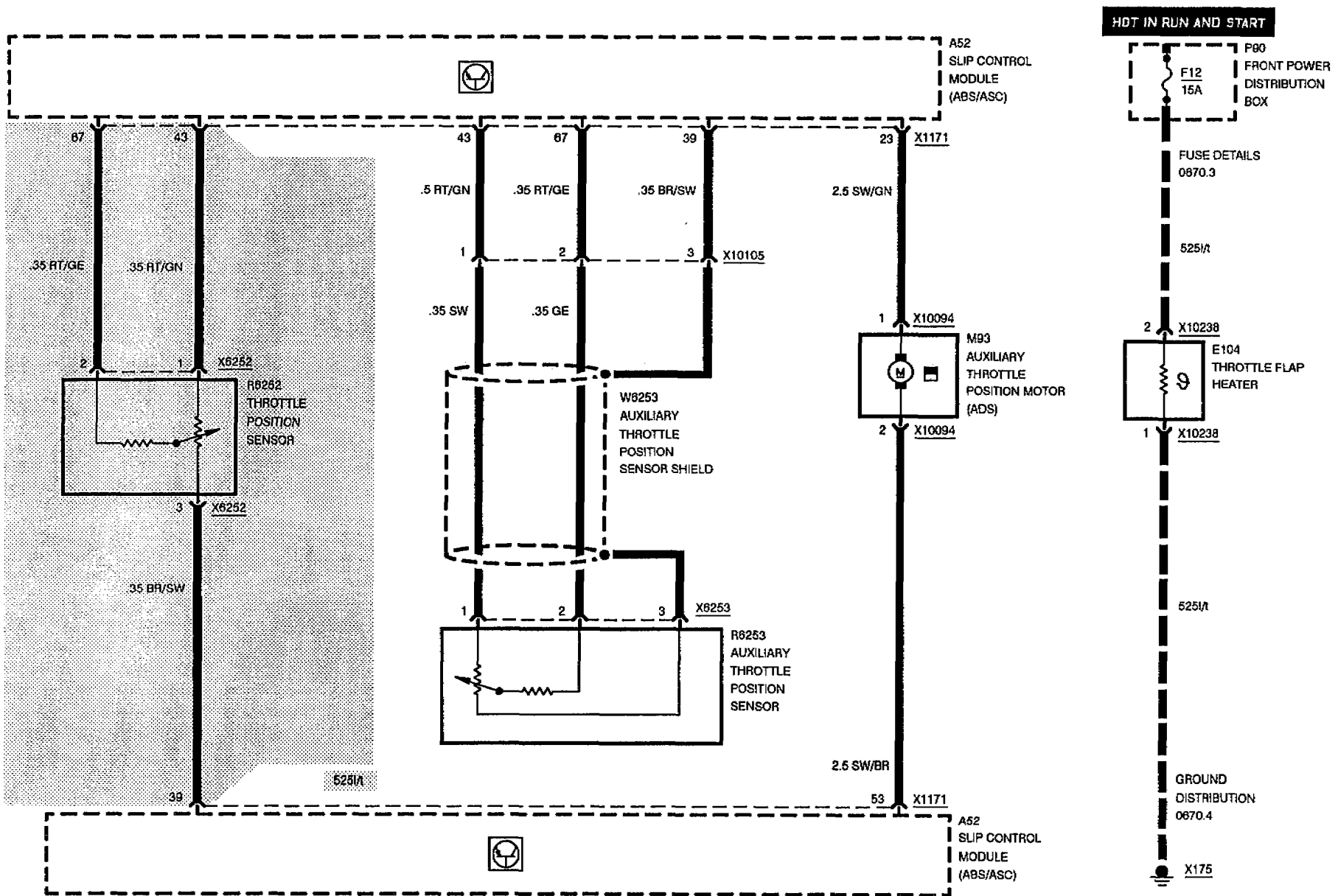


# SLIP CONTROL 5 (ASC 5)

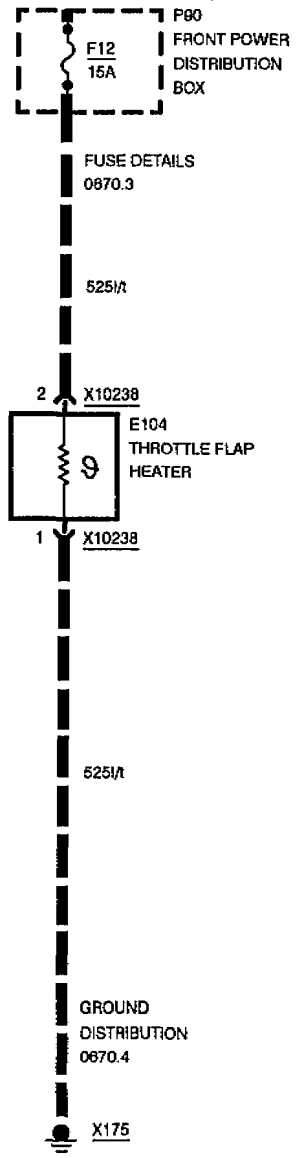




SLIP CONTROL 5 (ASC 5)



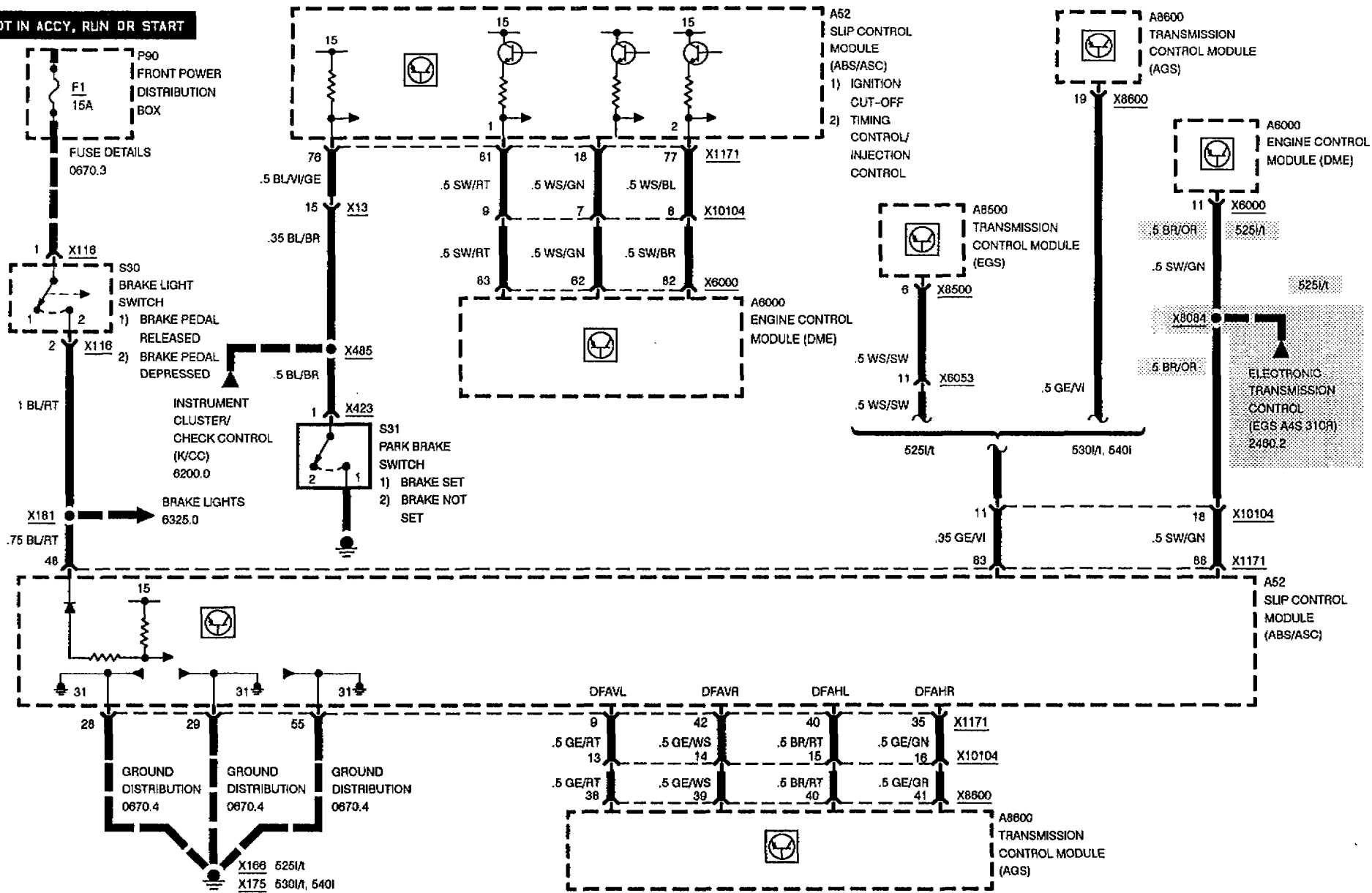
HDT IN RUN AND START





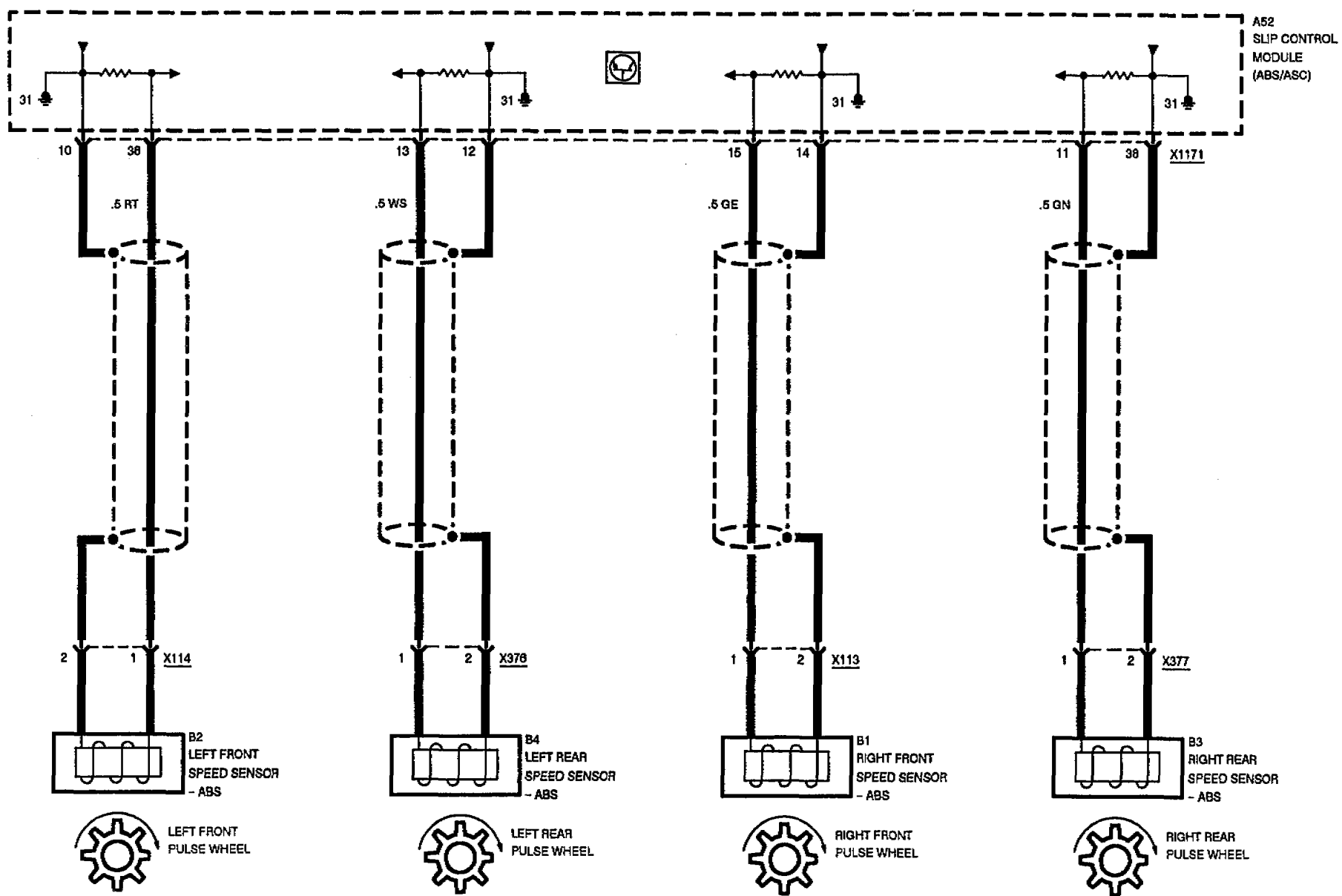
# SLIP CONTROL 5 (ASC 5)

HOT IN ACCY, RUN OR START





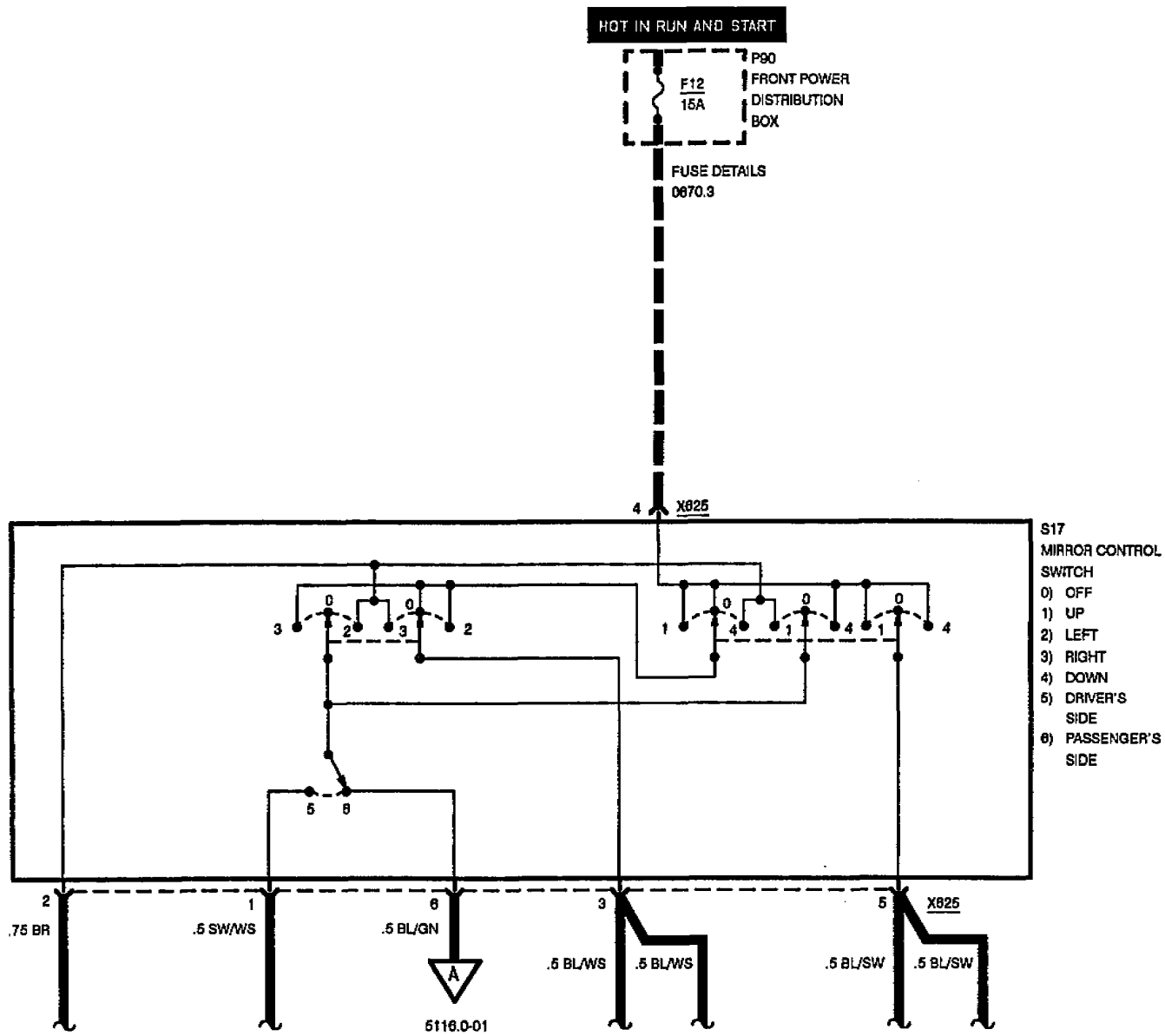
# SLIP CONTROL 5 (ASC 5)

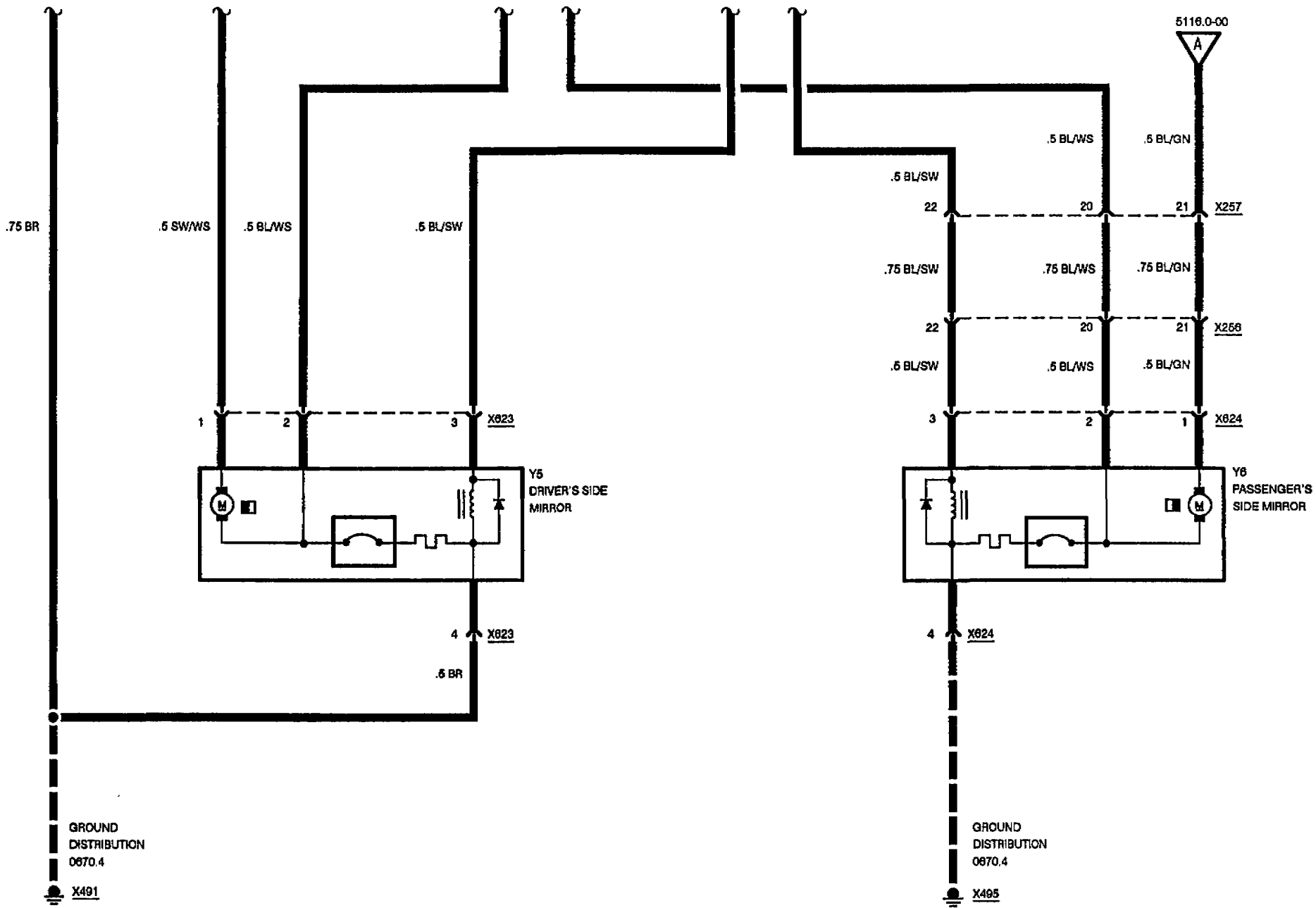






# POWER MIRRORS

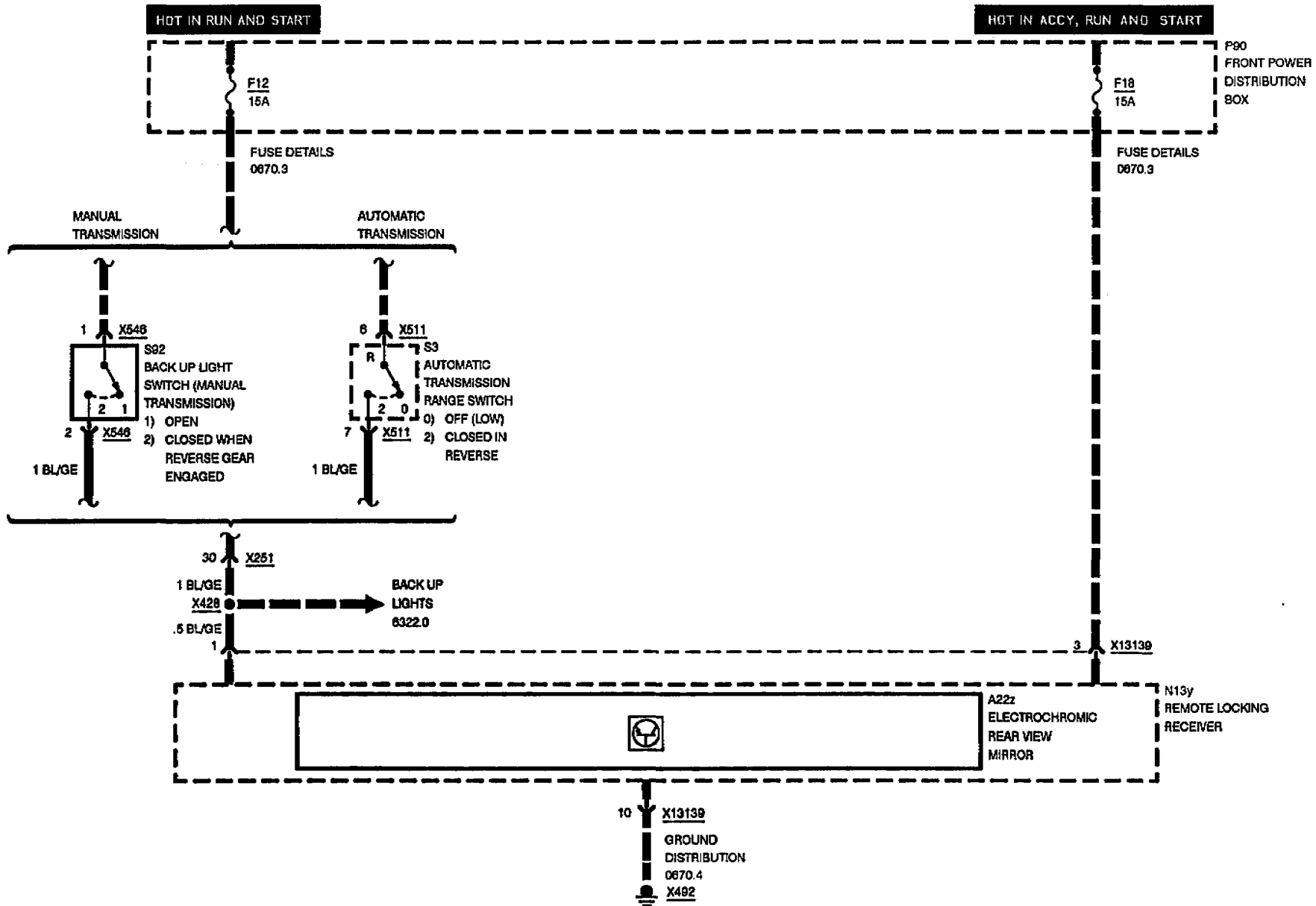






# POWER MIRRORS

## INSIDE MIRRORS



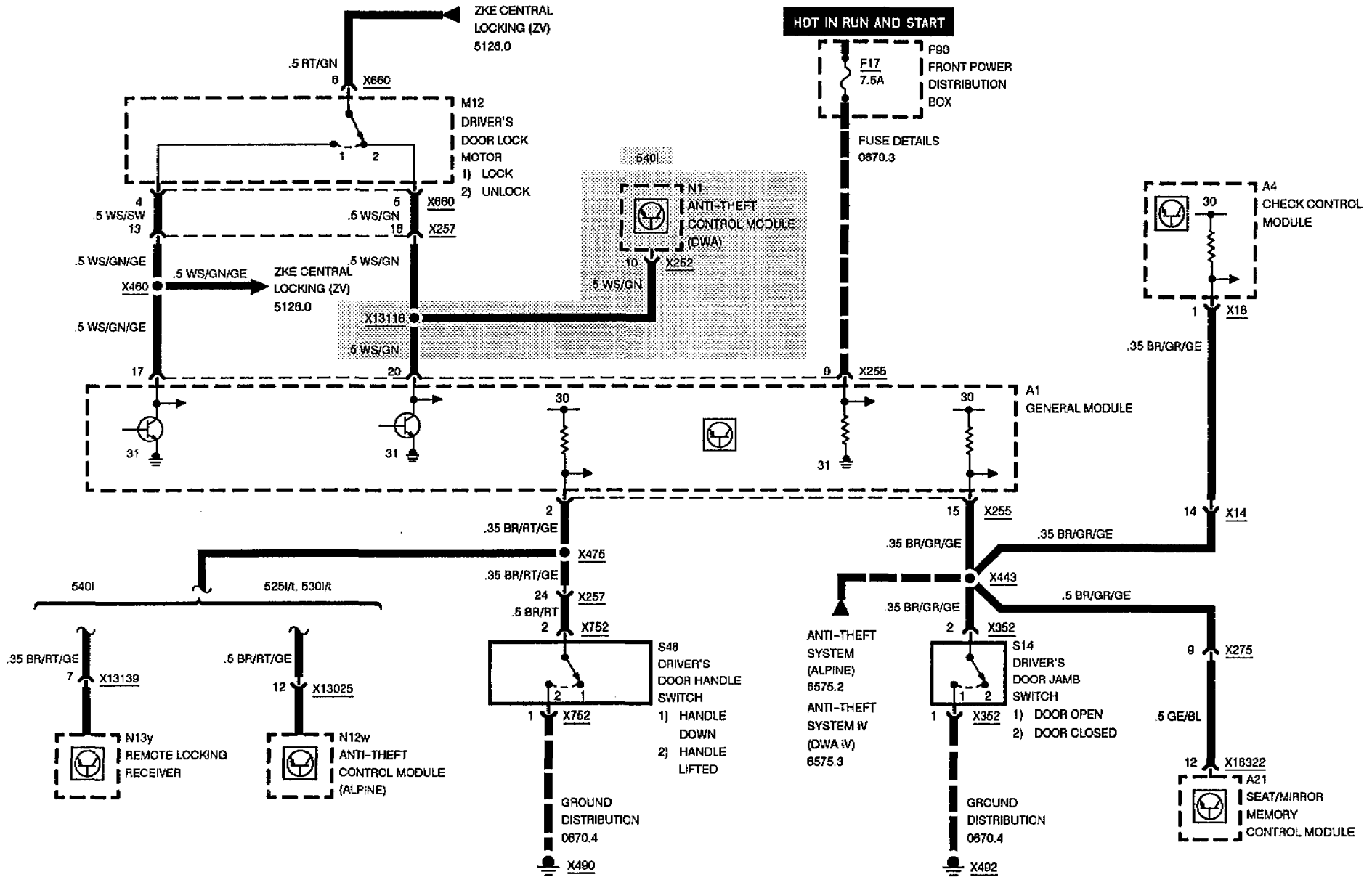
BMW  
**5**

5120.0



# ZKE DOOR LOCK HEATING (TSH)

## INPUT DETAILS



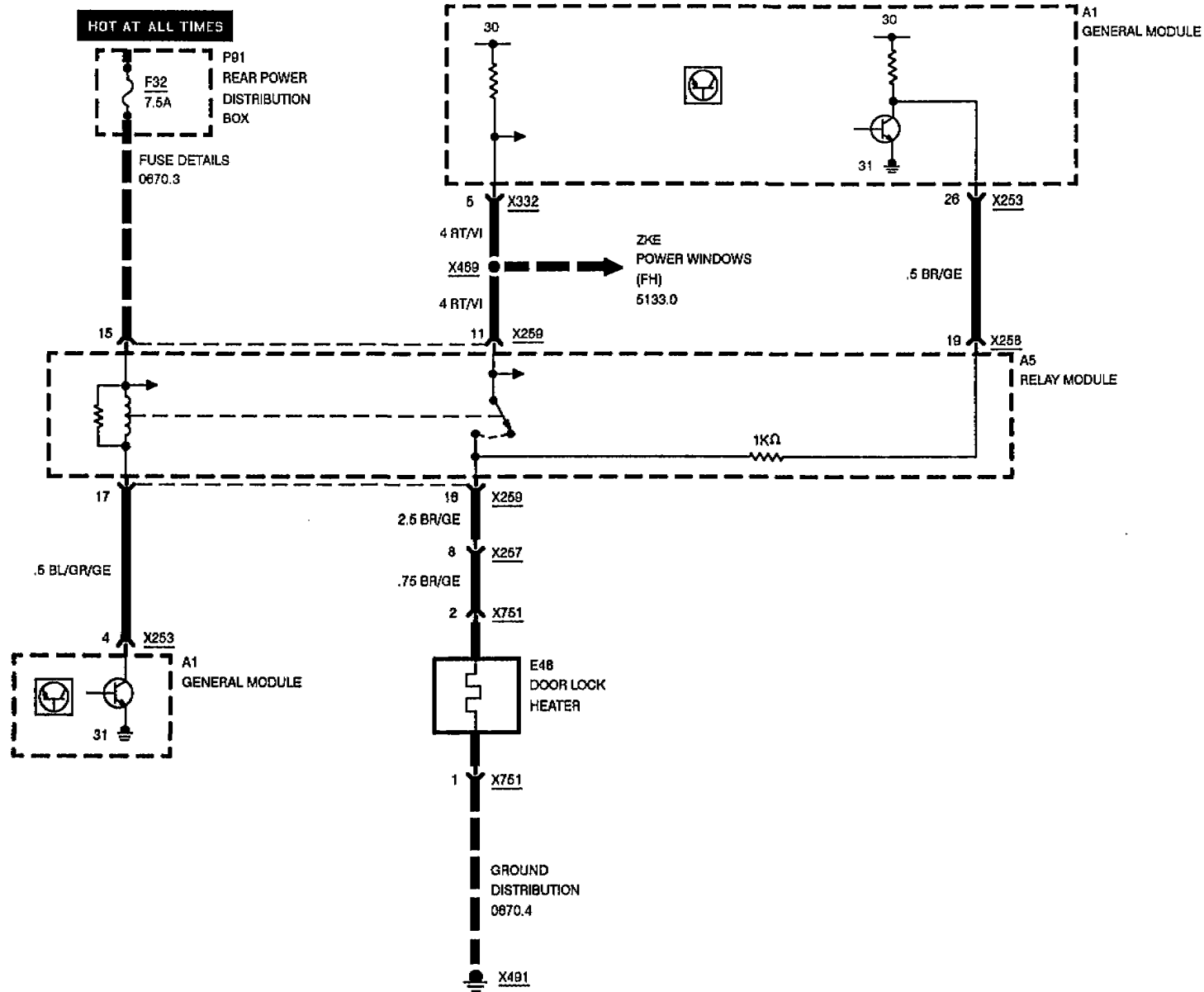
12/94  
5120.0-00  
1994





# ZKE DOOR LOCK HEATING (TSH)

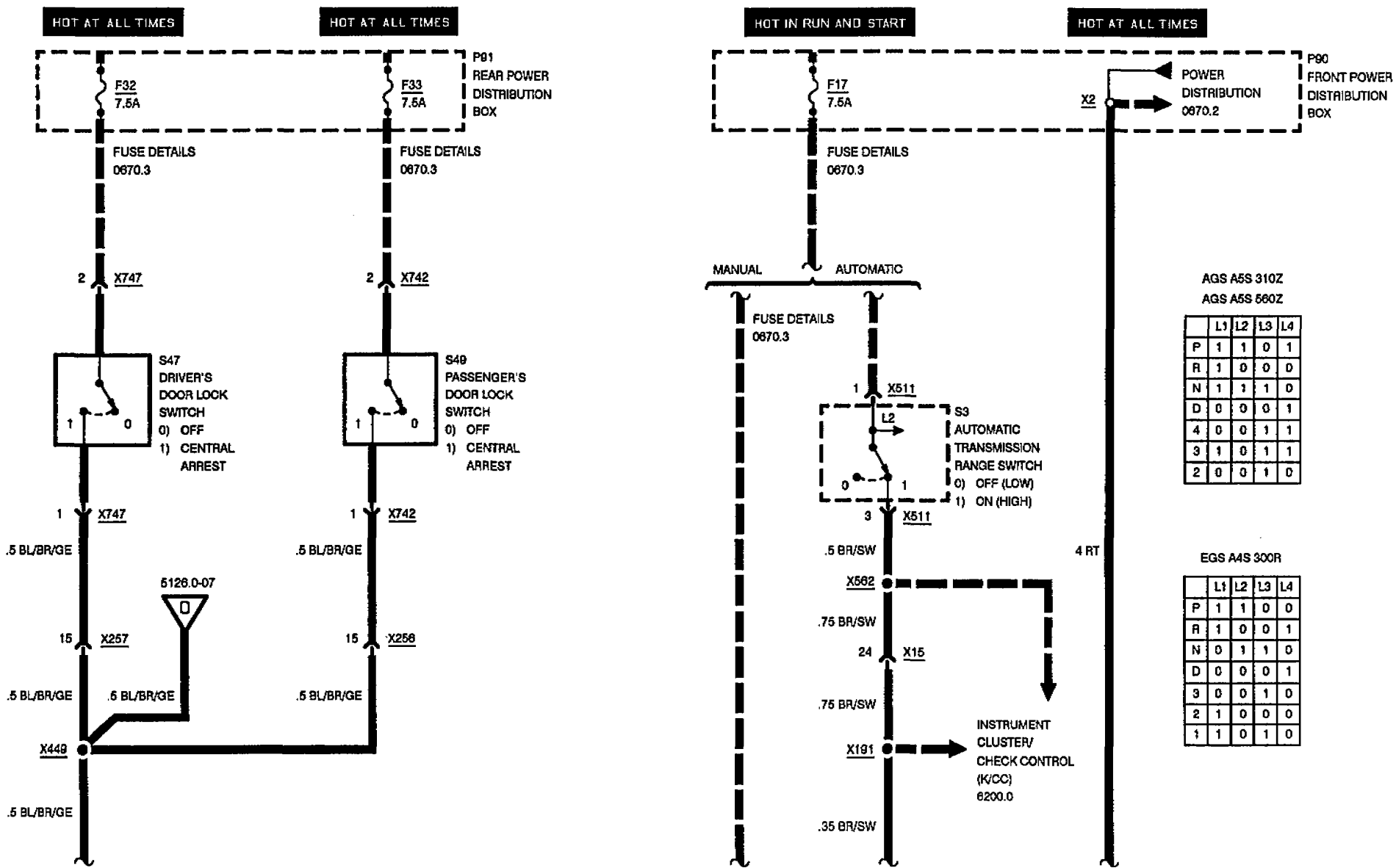
## OUTPUT DETAILS

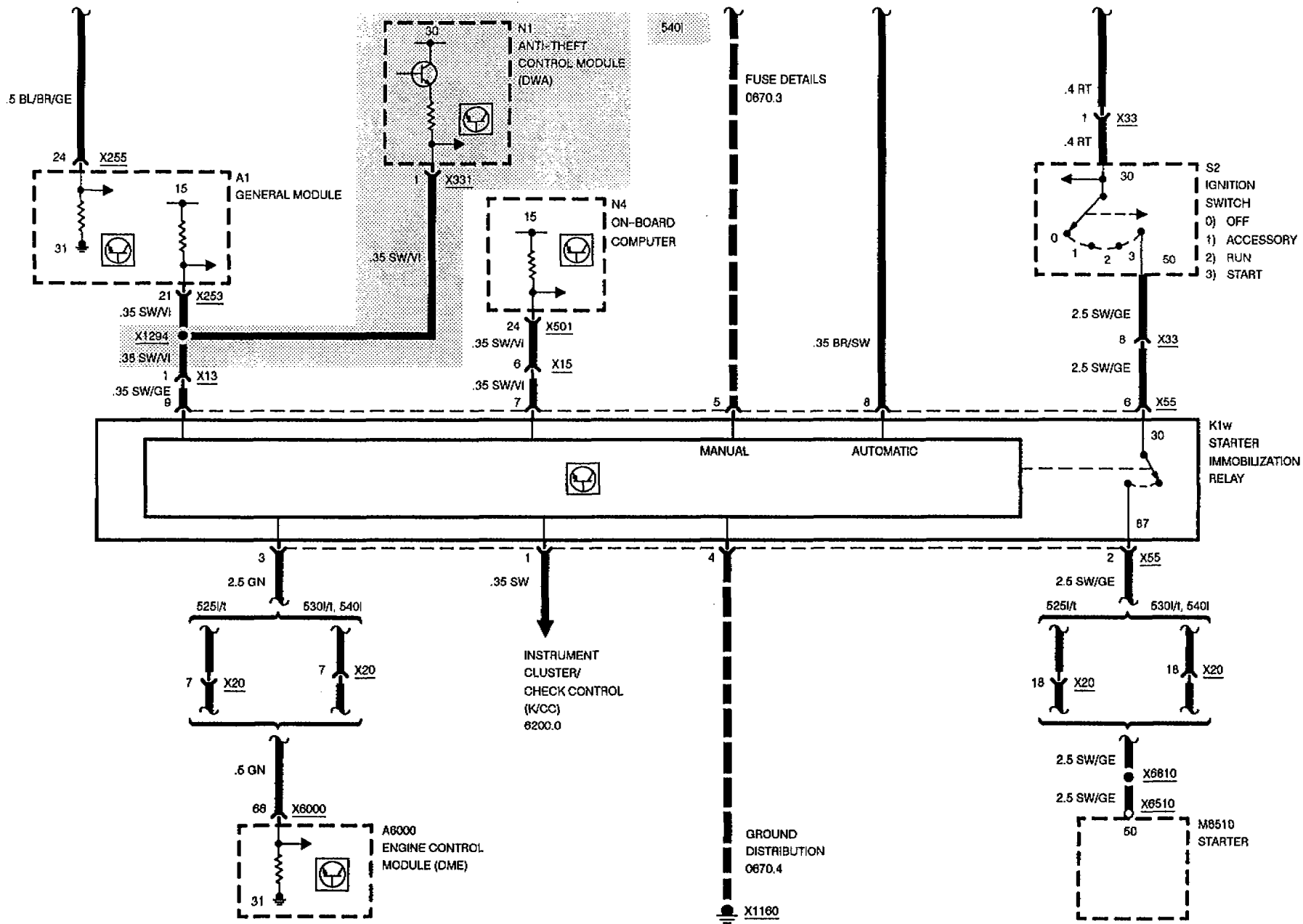




# ZKE CENTRAL LOCKING (ZV) INPUTS, DRIVE AWAY PROTECTION

LATE PRODUCTION



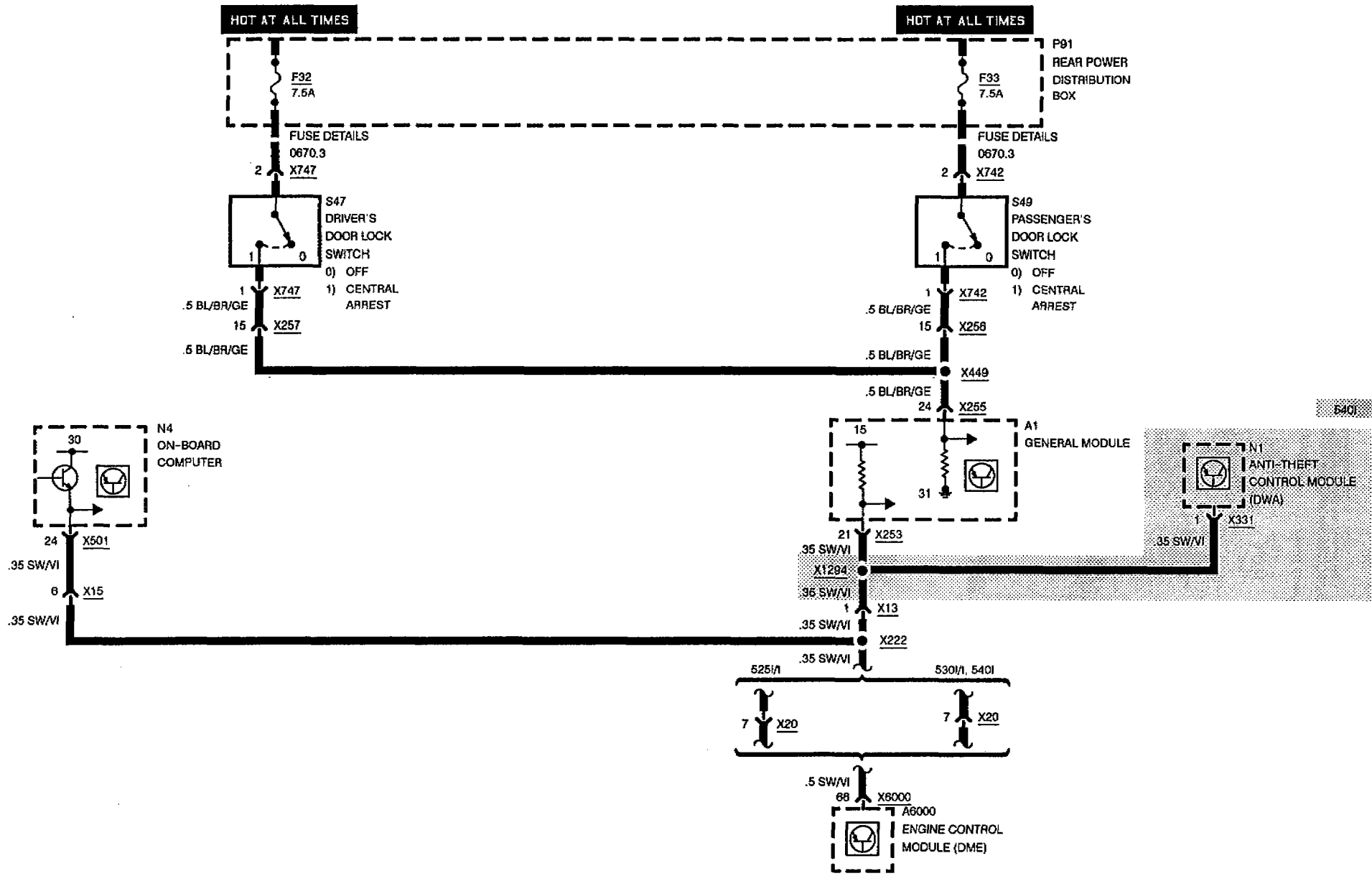




# ZKE CENTRAL LOCKING (ZV)

## INPUTS, DRIVE AWAY PROTECTION

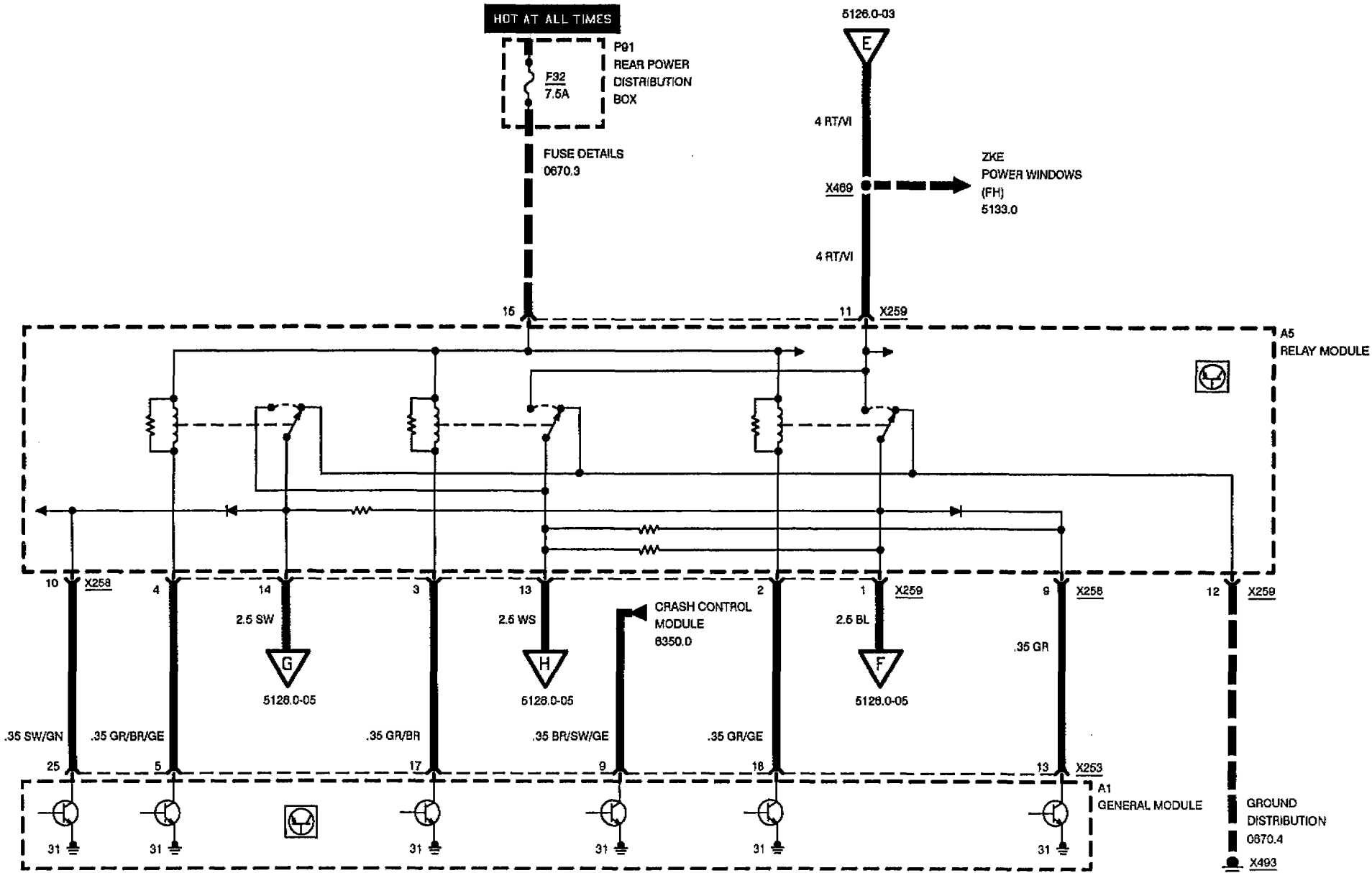
EARLY PRODUCTION







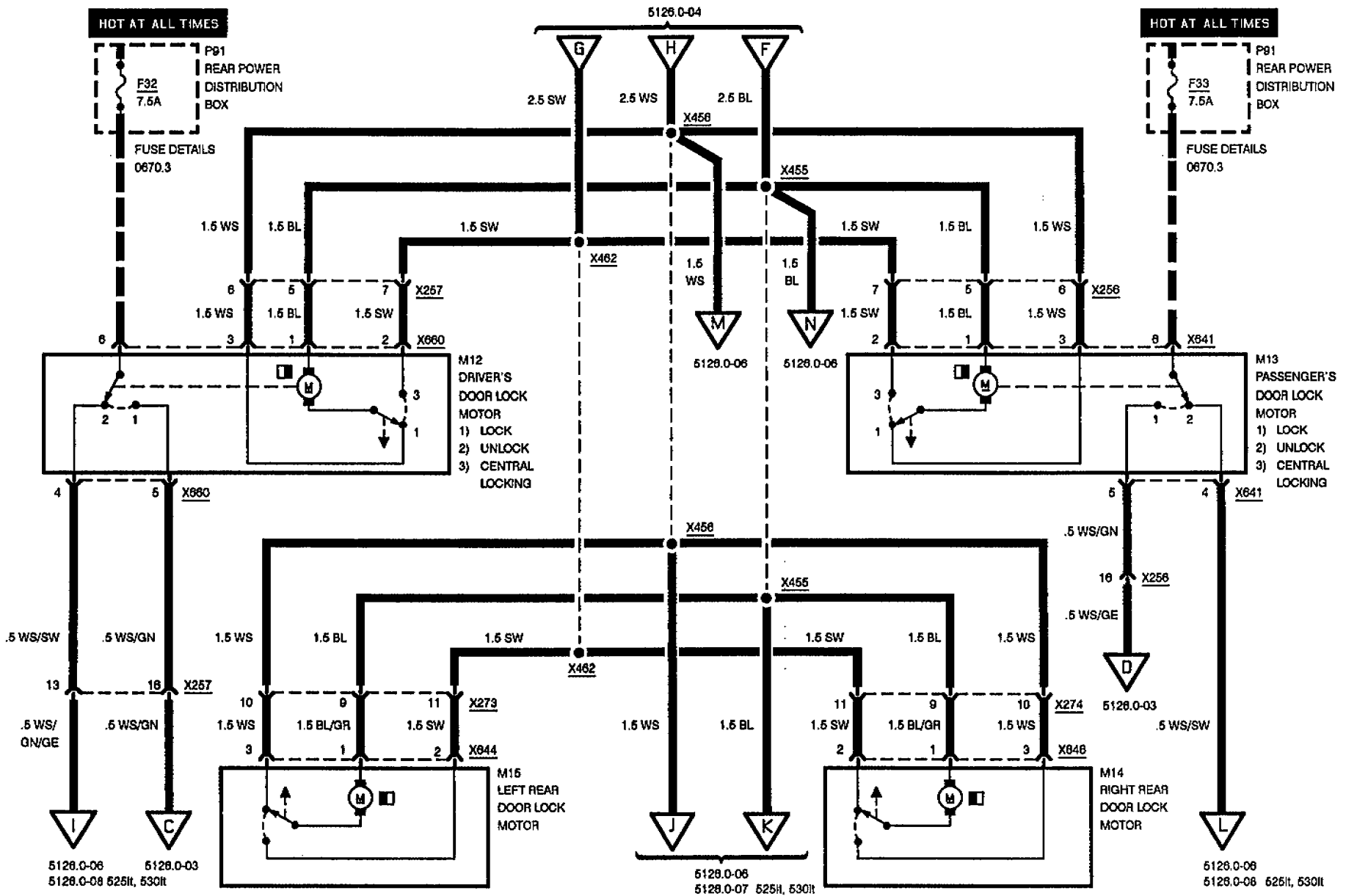
# ZKE CENTRAL LOCKING (ZV) OUTPUT DETAILS



12/94  
5126.0-04  
1994



# ZKE CENTRAL LOCKING (ZV) OUTPUT DETAILS

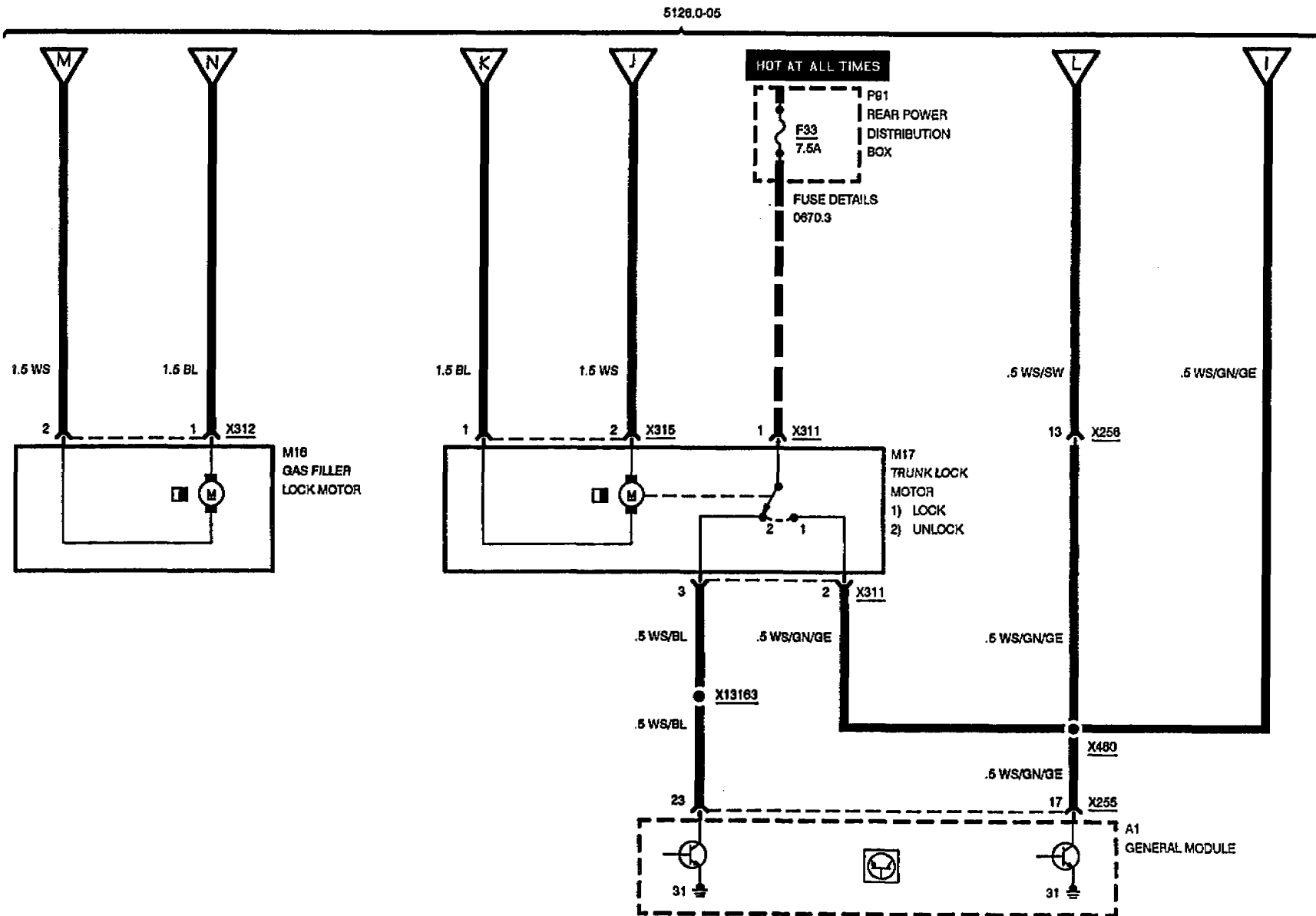




# ZKE CENTRAL LOCKING (ZV)

525i, 530i, 540i

## OUTPUT DETAILS

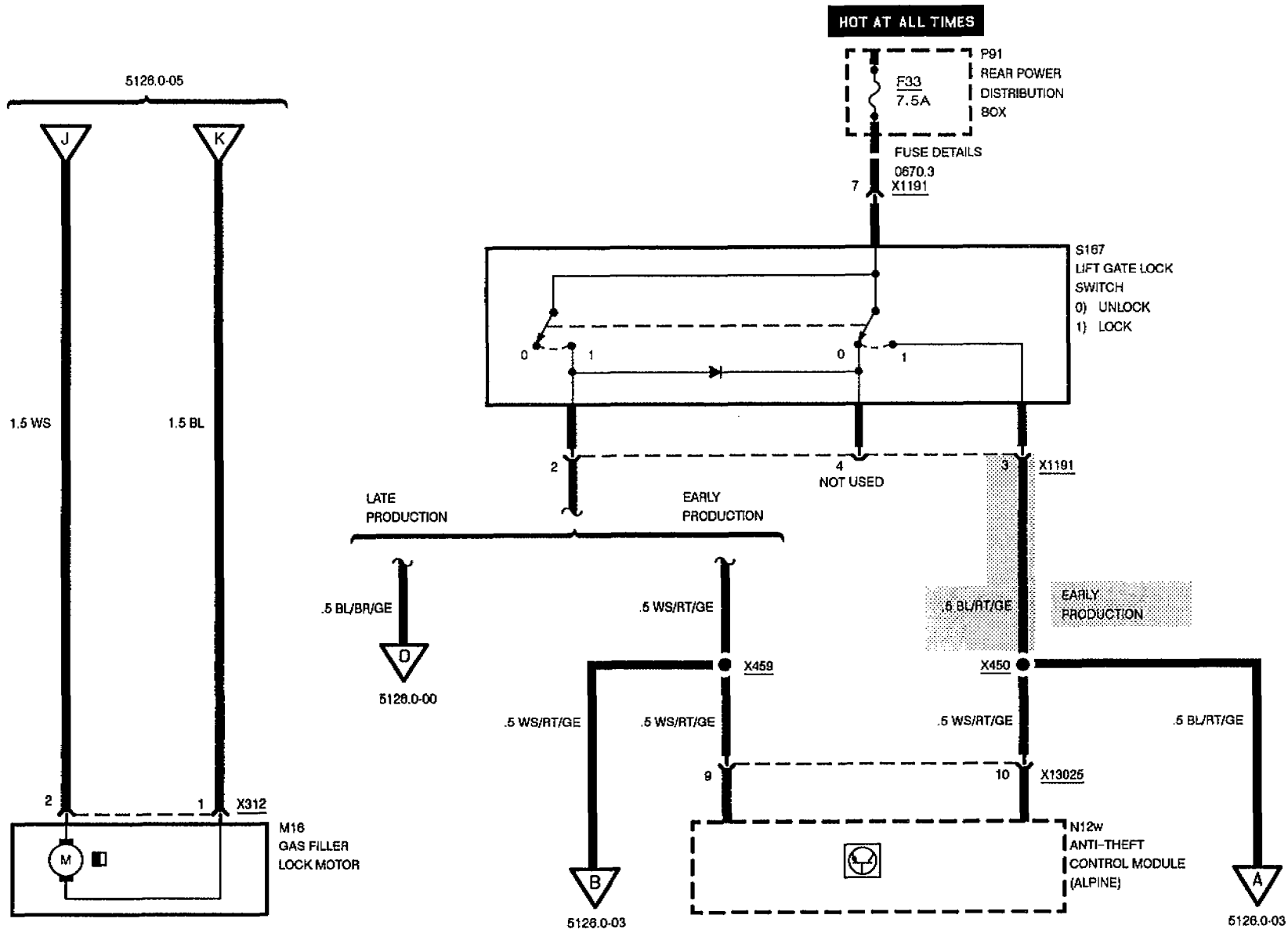






# ZKE CENTRAL LOCKING (ZV) OUTPUT DETAILS

525it, 530it



12/94

5126.0-07

1994

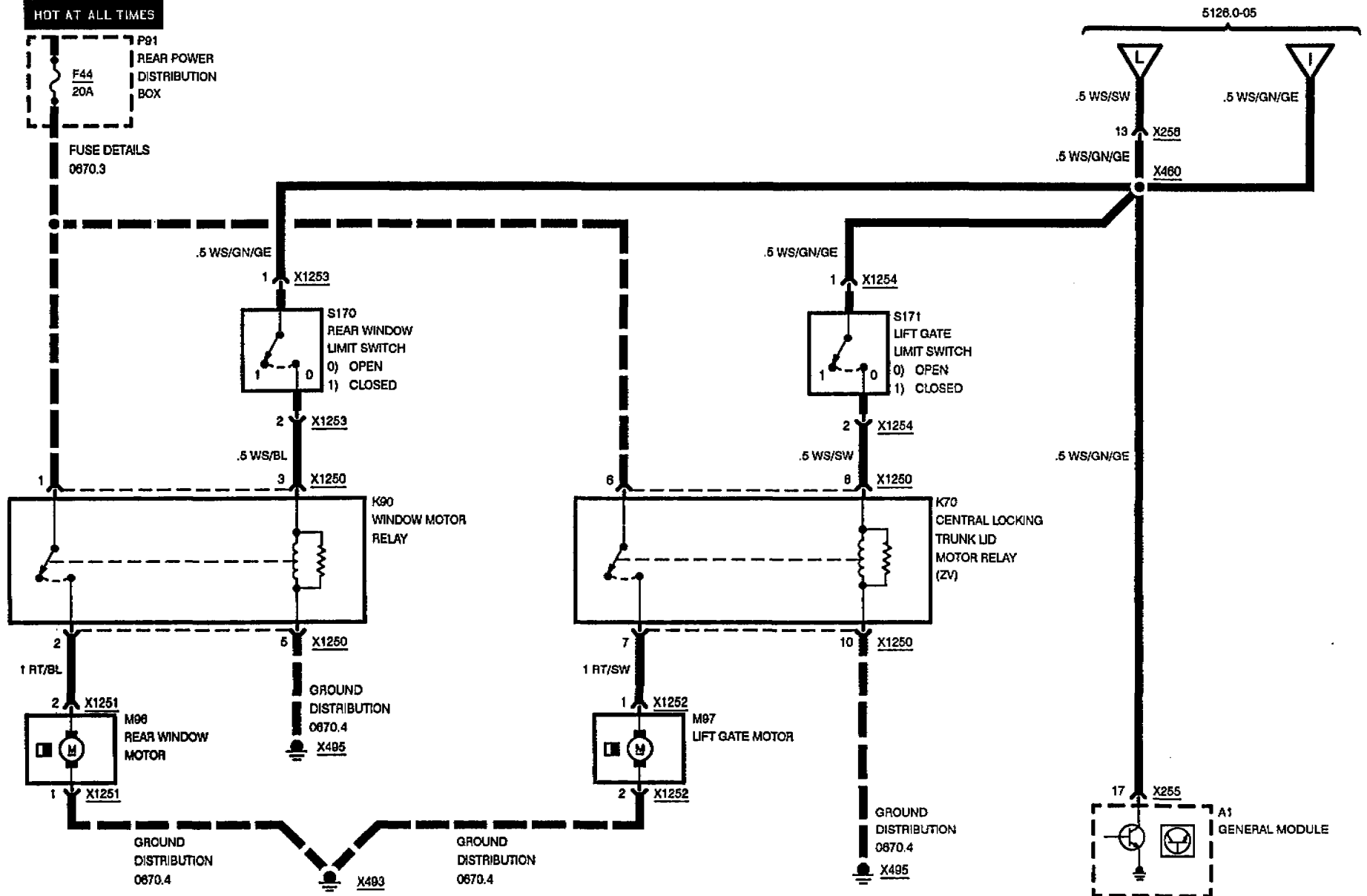


# ZKE CENTRAL LOCKING (ZV)

525it, 530it

## OUTPUT DETAILS

**HOT AT ALL TIMES**



12/94

5126.0-08

1994

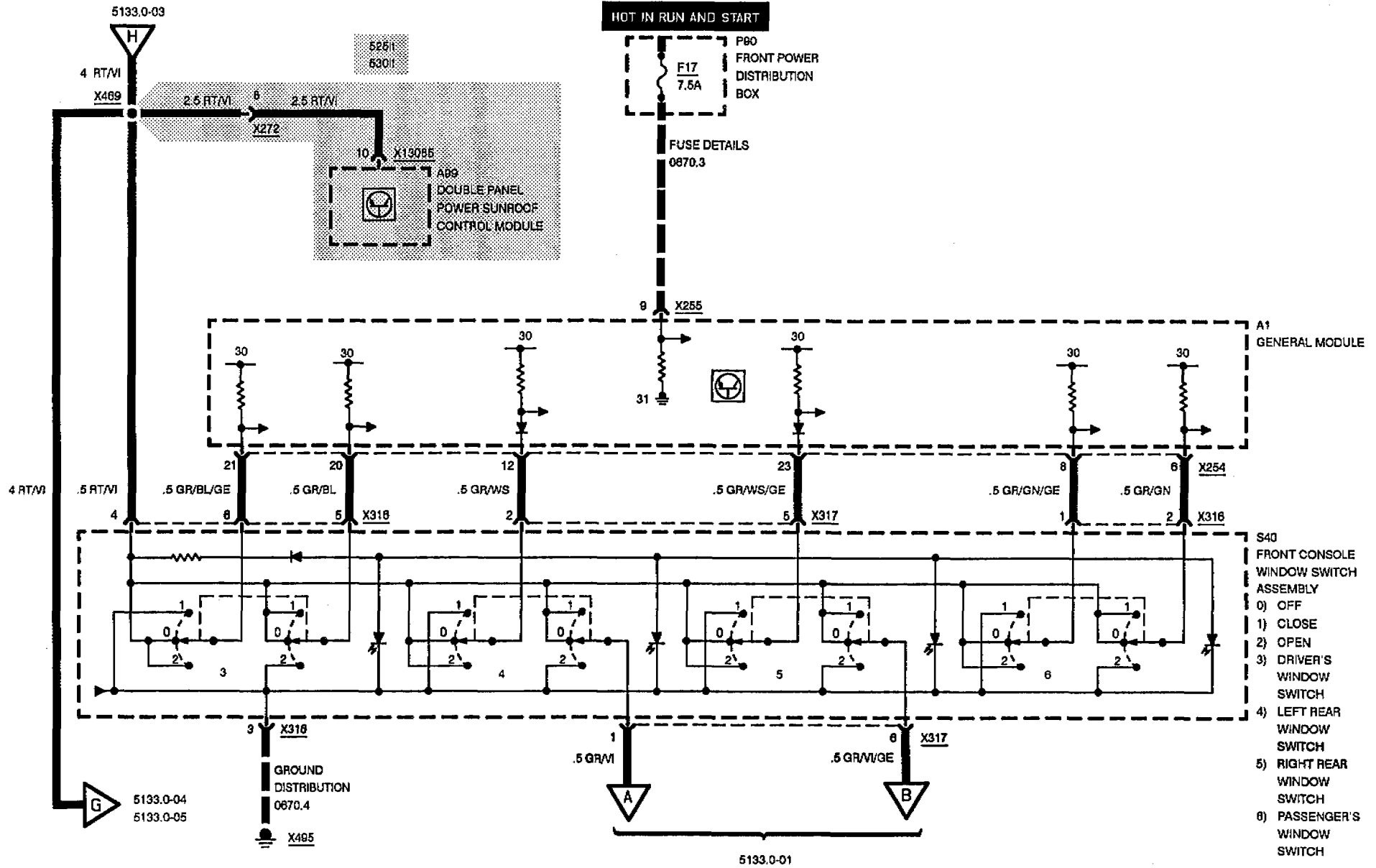


5133.0



# ZKE POWER WINDOWS (FH)

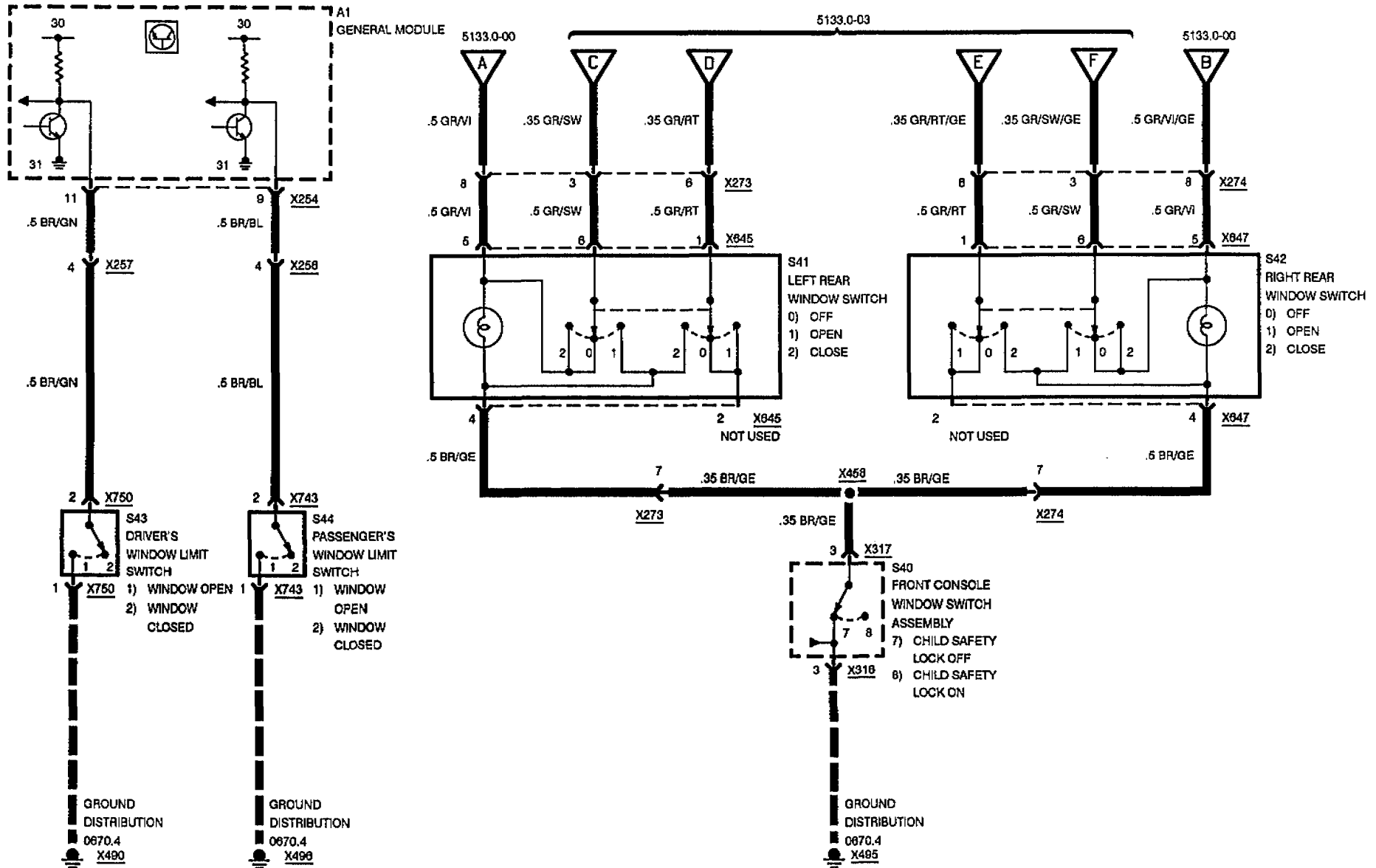
## INPUT DETAILS





# ZKE POWER WINDOWS (FH)

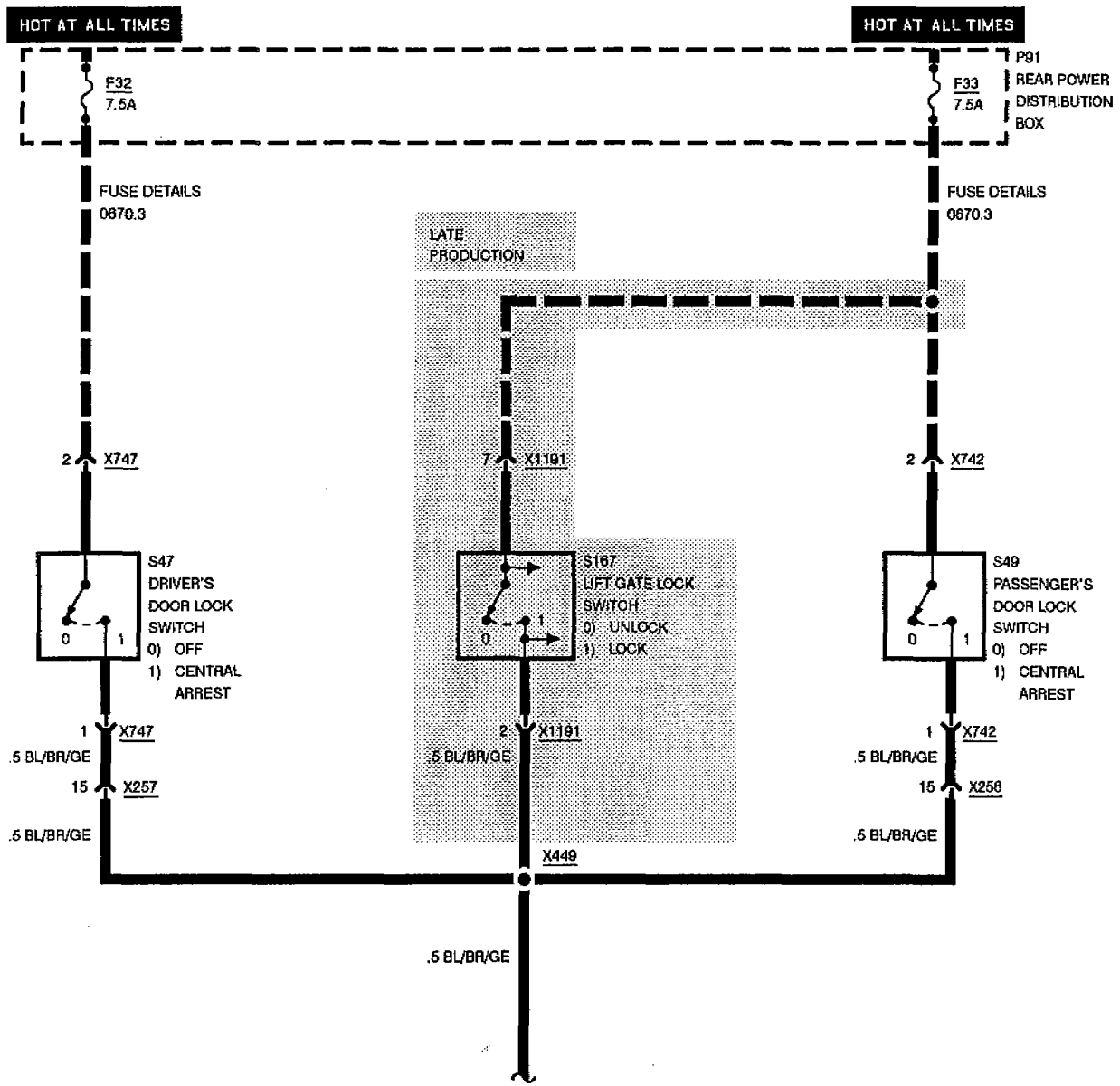
## INPUT DETAILS

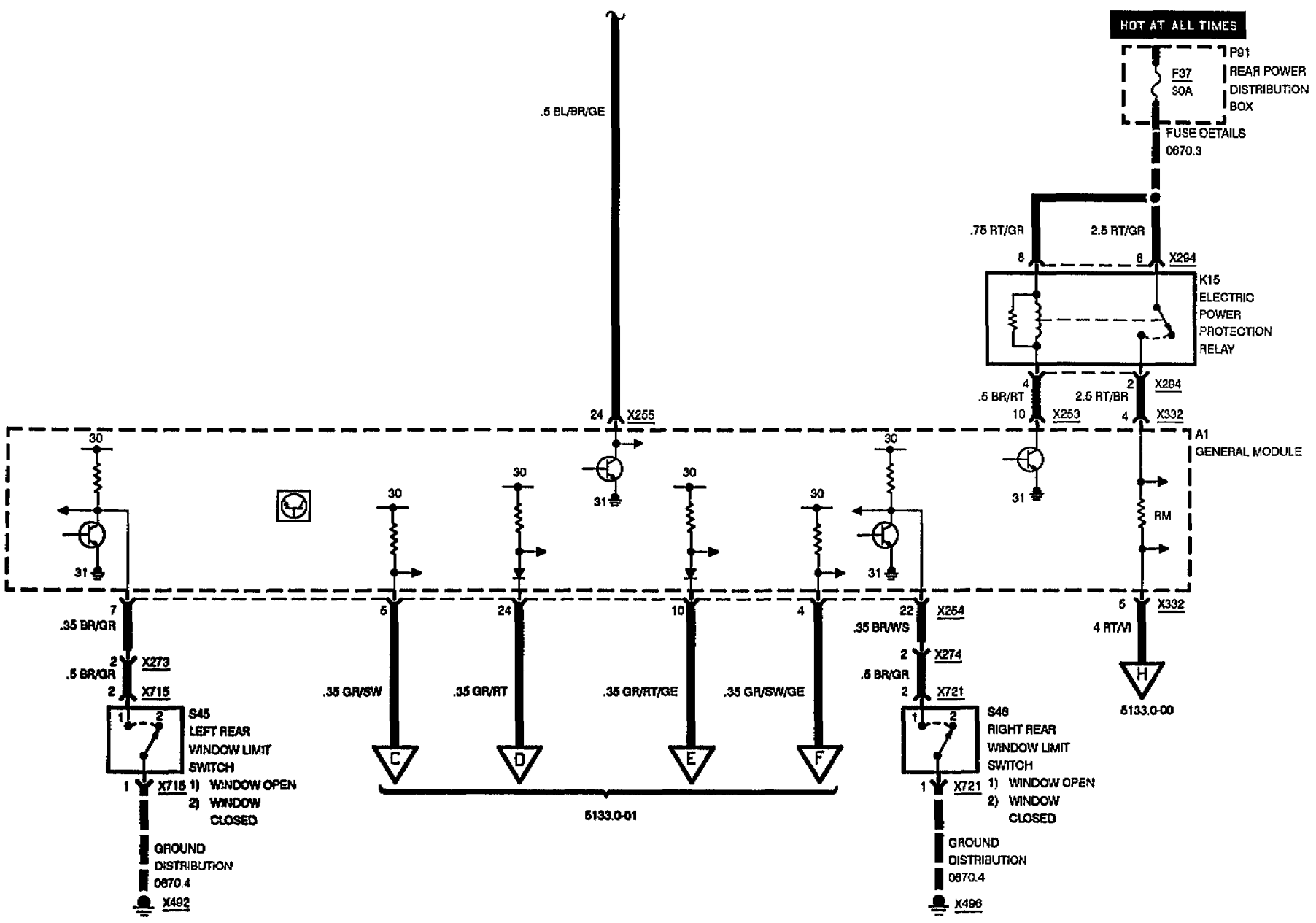




# ZKE POWER WINDOWS (FH)

## INPUT DETAILS



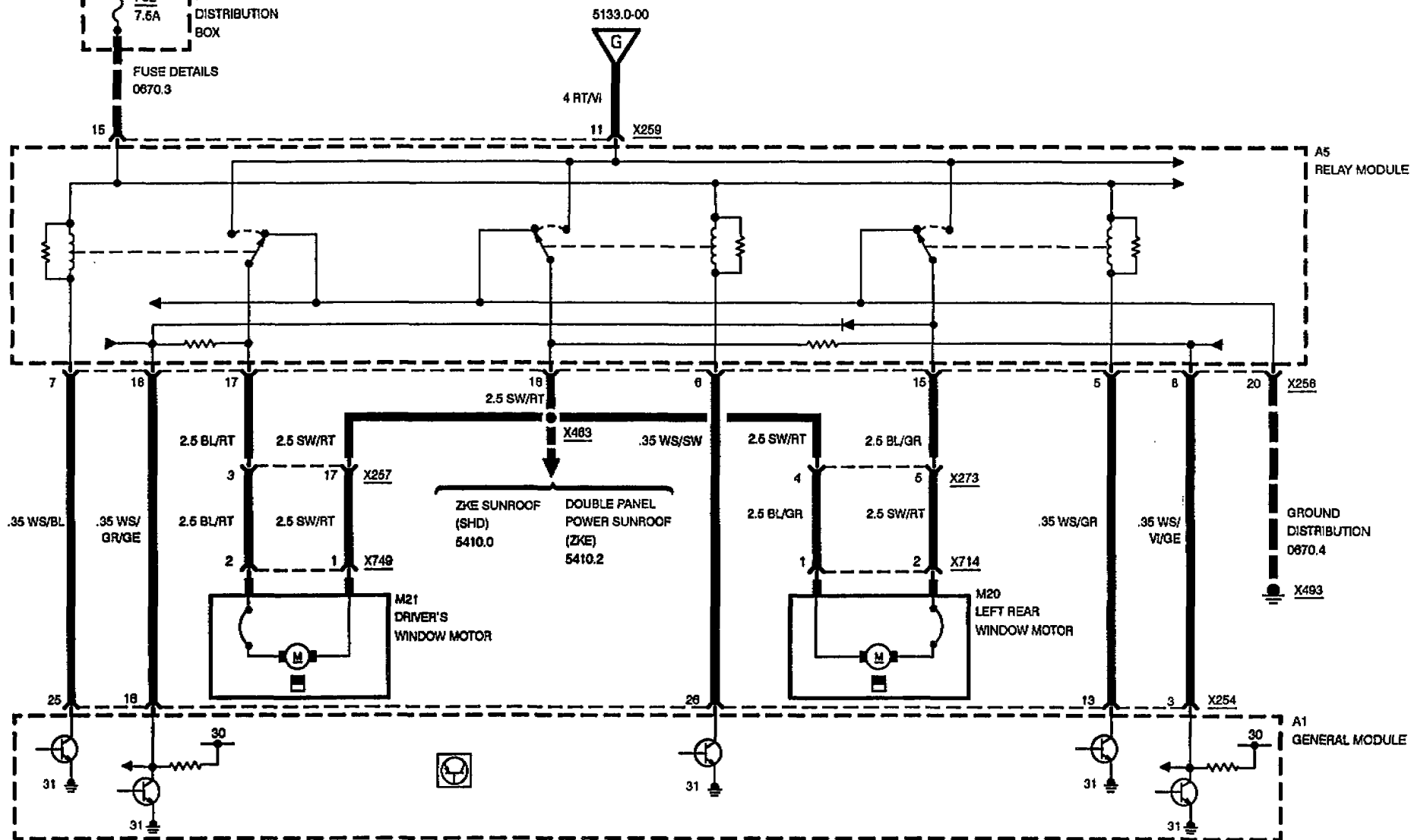
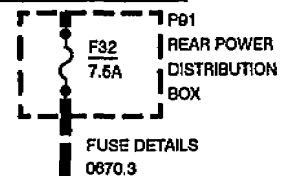




# ZKE POWER WINDOWS (FH)

## LEFT SIDE OUTPUT DETAILS

HOT AT ALL TIMES



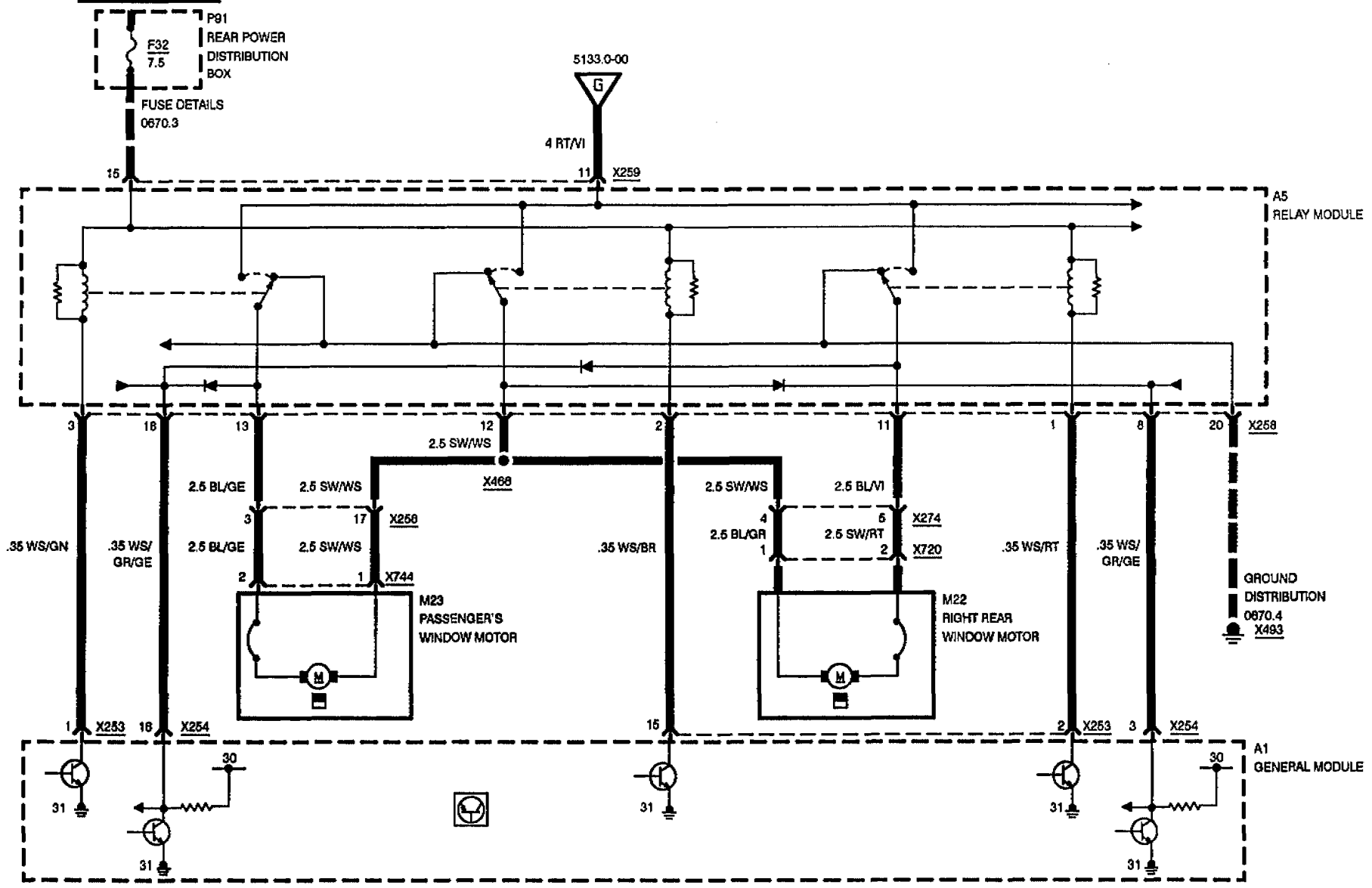




# ZKE POWER WINDOWS (FH)

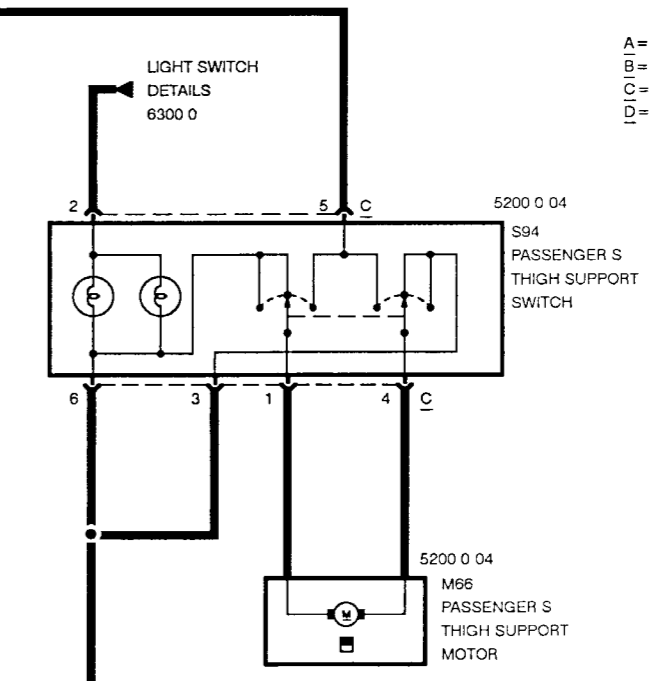
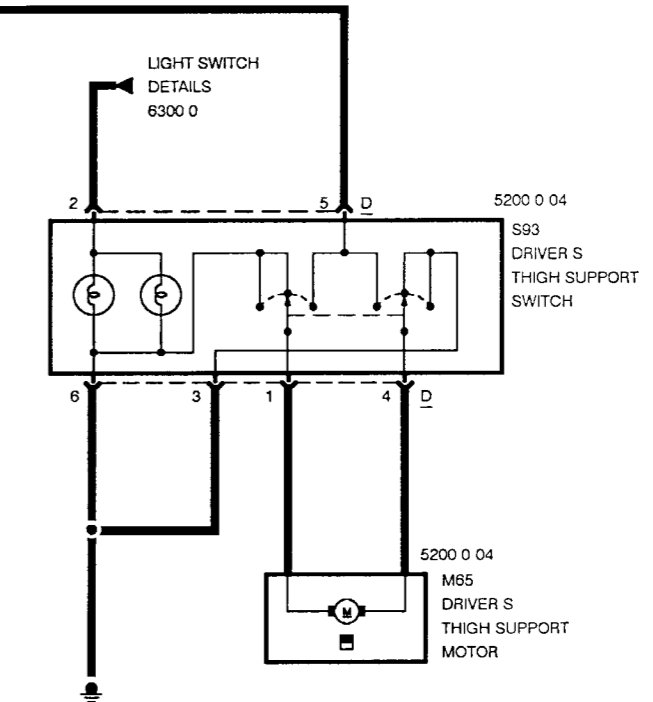
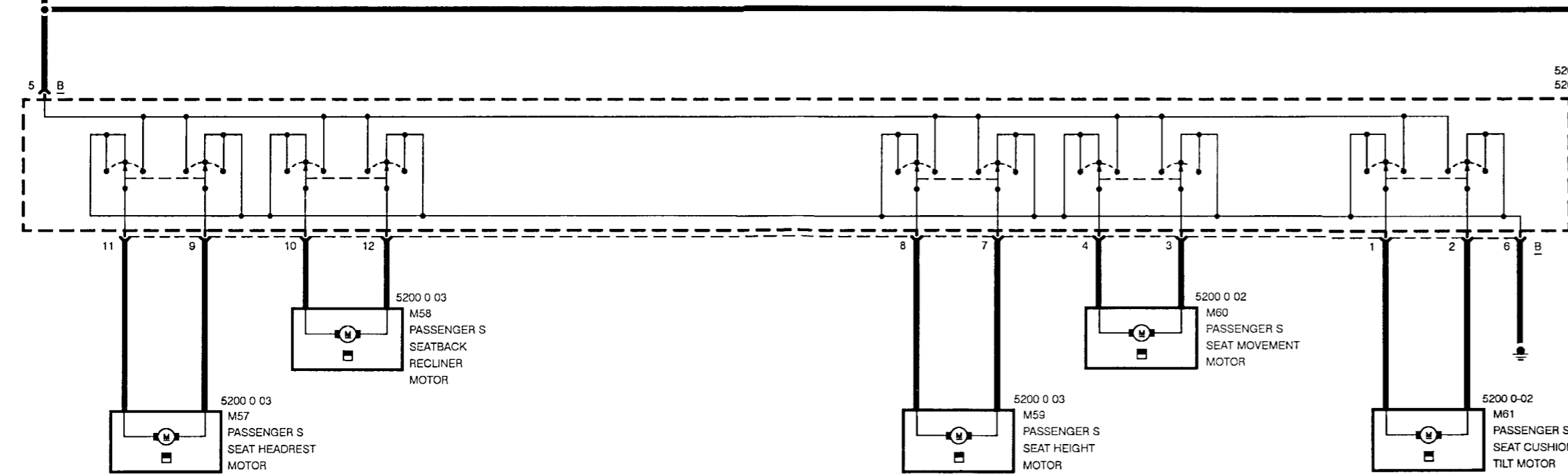
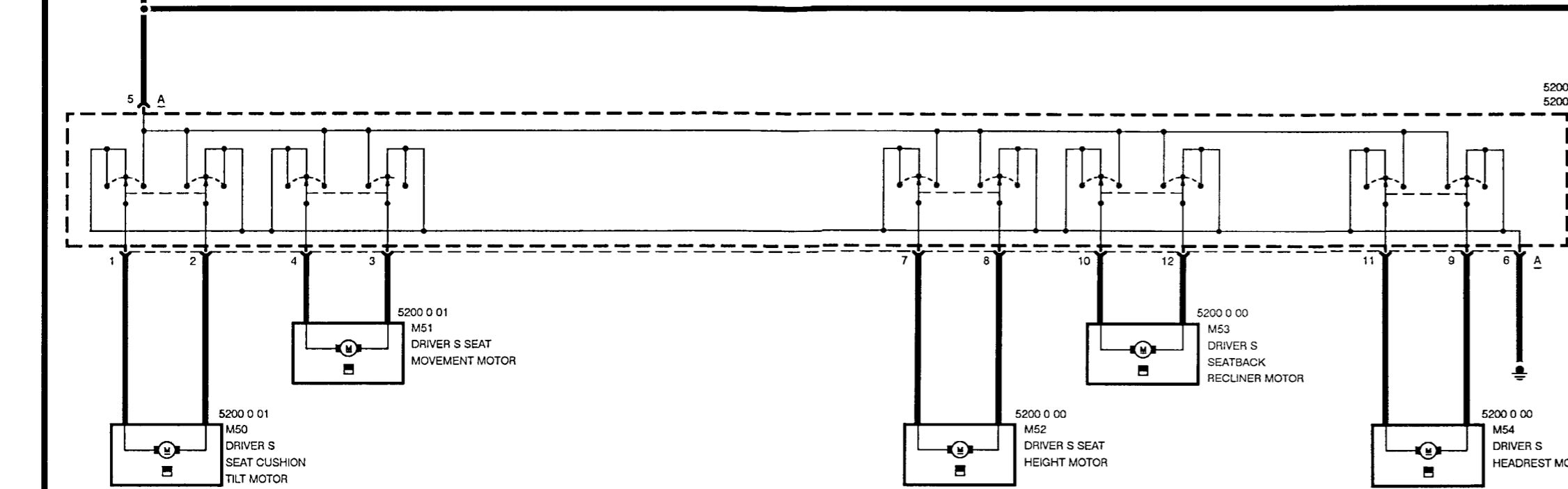
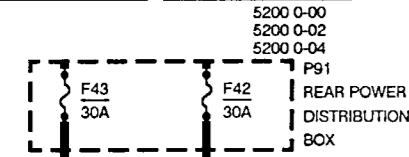
## RIGHT SIDE OUTPUT DETAILS

HOT AT ALL TIMES

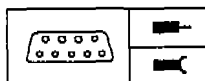




HOT AT ALL TIMES



A = X603  
 B = X604  
 C = X881  
 D = X880



## Pin Assignments

A=X603	12 Pins black
B=X604	12 Pins black
C=X881	6 Pins white
D=X880	6 Pins black

### X603 (Driver) and X604 (Passenger)

Pin	Type	Description/Function	Connection
1	E/A	Seat cushion tilt control	Seat cushion tilt motor
2	E/A	Seat cushion tilt control	Seat cushion tilt motor
3	E/A	Seat cushion movement control	Seat movement motor
4	E/A	Seat cushion movement control	Seat movement motor
5	E	Battery voltage	Rear power distribution box
6	M	Ground	Ground point
7	E/A	Seat cushion height control	Seat height motor
8	E/A	Seat cushion height control	Seat height motor
9	E/A	Headrest control	Headrest motor
10	E/A	Recliner control	Seat back recliner motor
11	E/A	Headrest control	Headrest motor
12	E/A	Recliner control	Seat back recliner motor

### X880 (Driver) and X881 (Passenger)

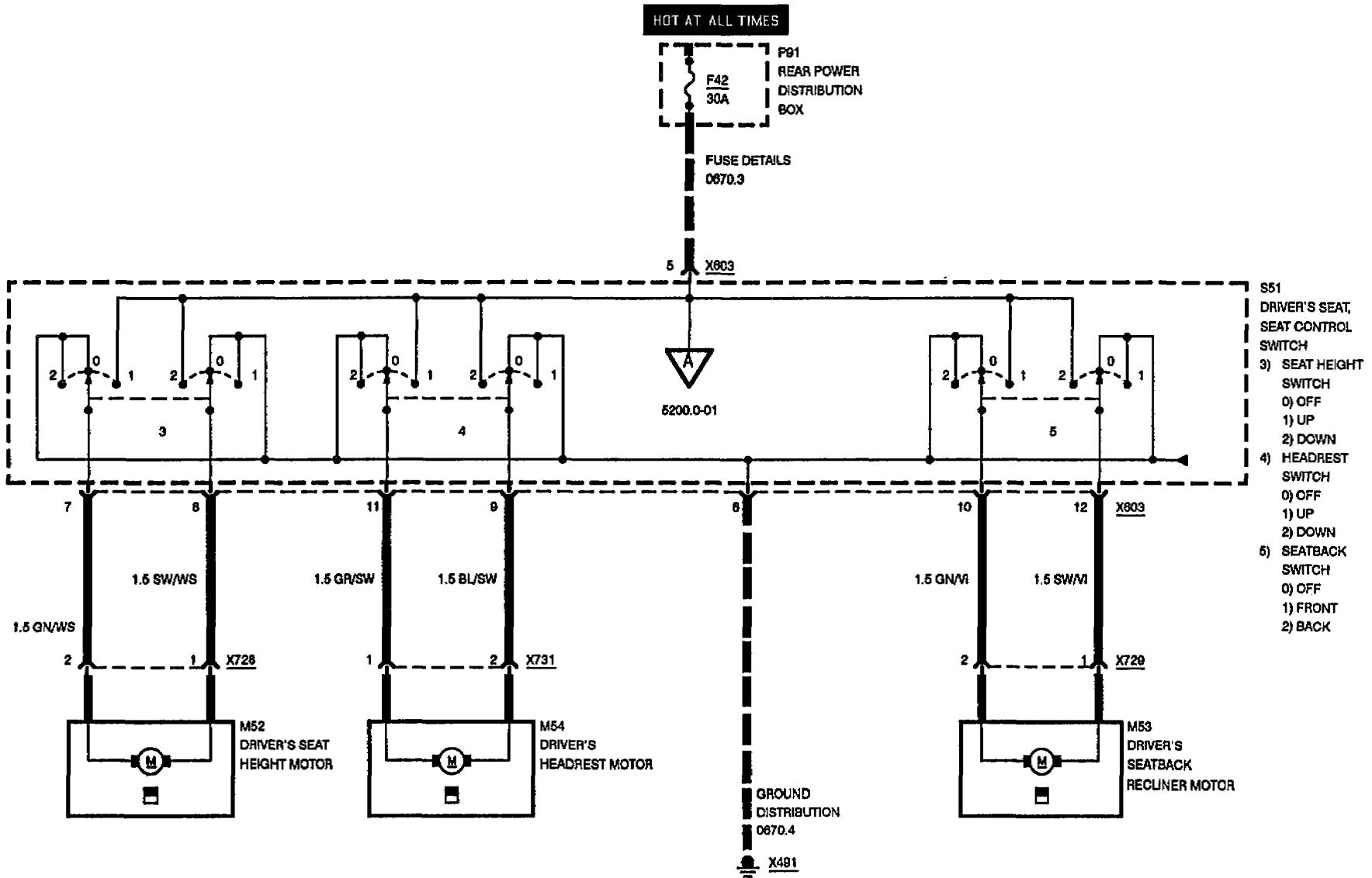
Pin	Type	Description/Function	Connection
1	E/A	Thigh support control	Thigh support motor
2	E	Switch illumination	Light switch
3	M	Ground	Ground point
4	E/A	Thigh support control	Thigh support motor
5	E	Battery voltage	Rear power distribution box
6	M	Ground	Ground point

E = Input A = Output M = Ground



# POWER SEATS

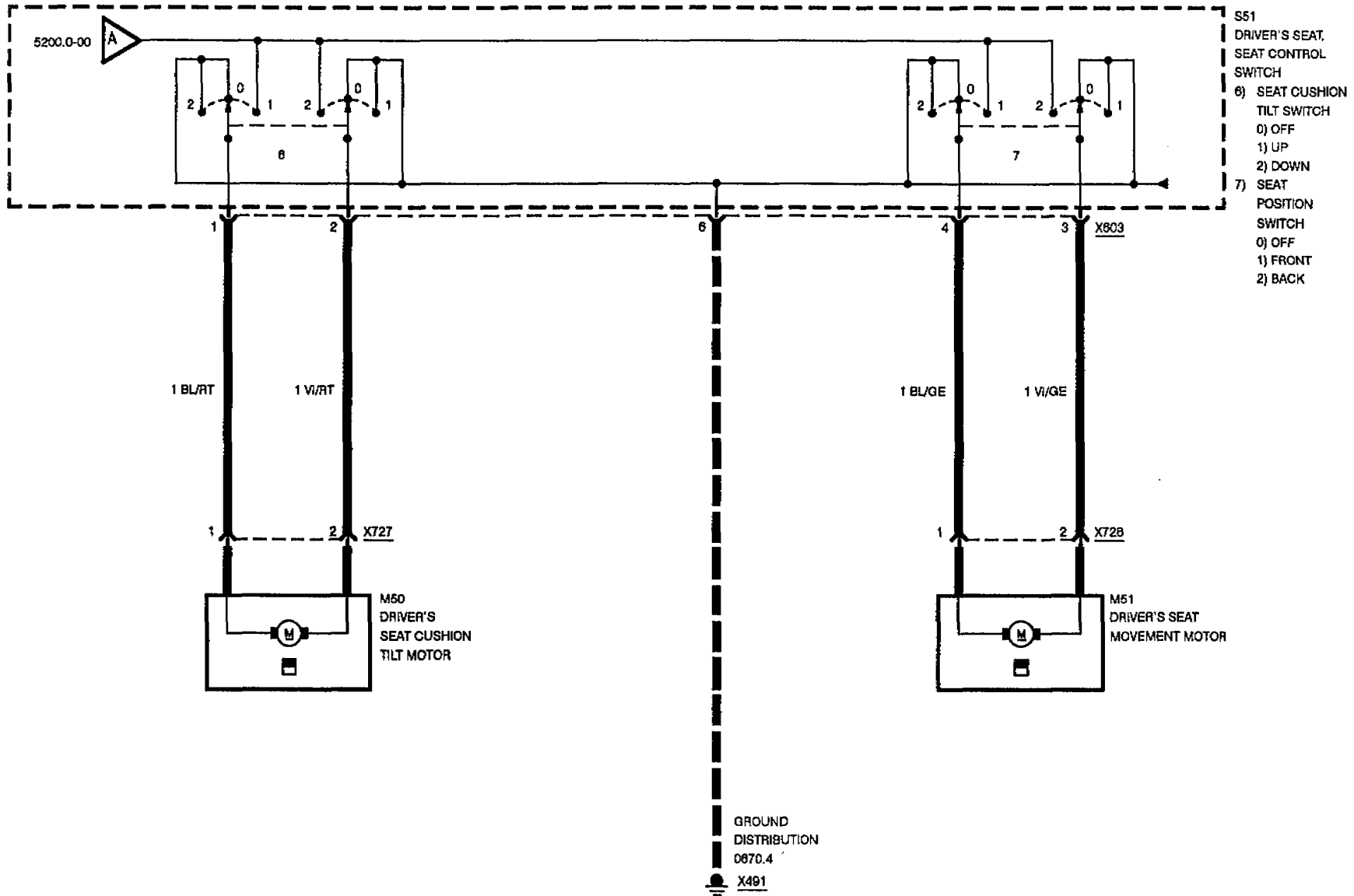
## DRIVER'S SEAT





# POWER SEATS

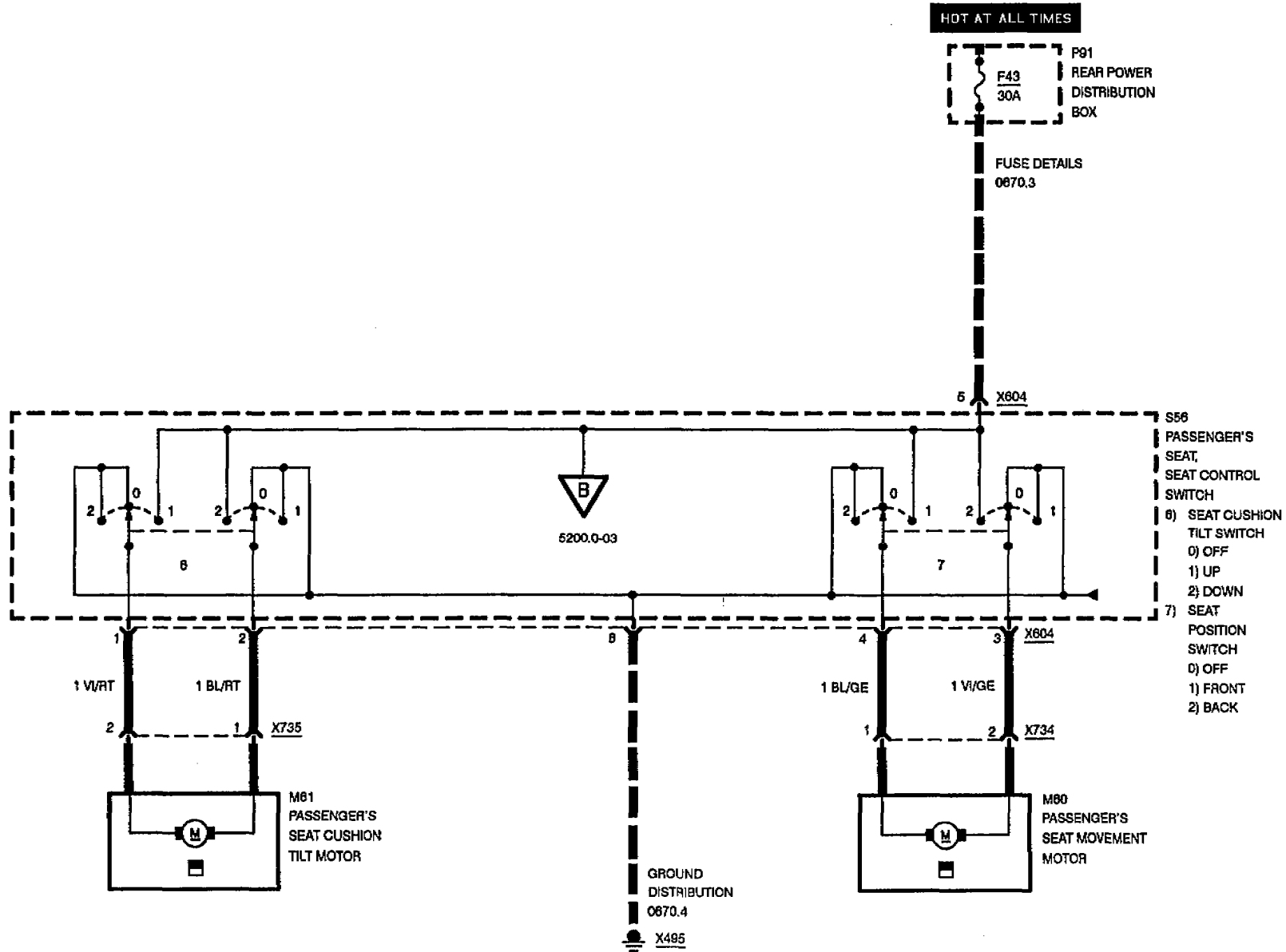
## DRIVER'S SEAT





# POWER SEATS

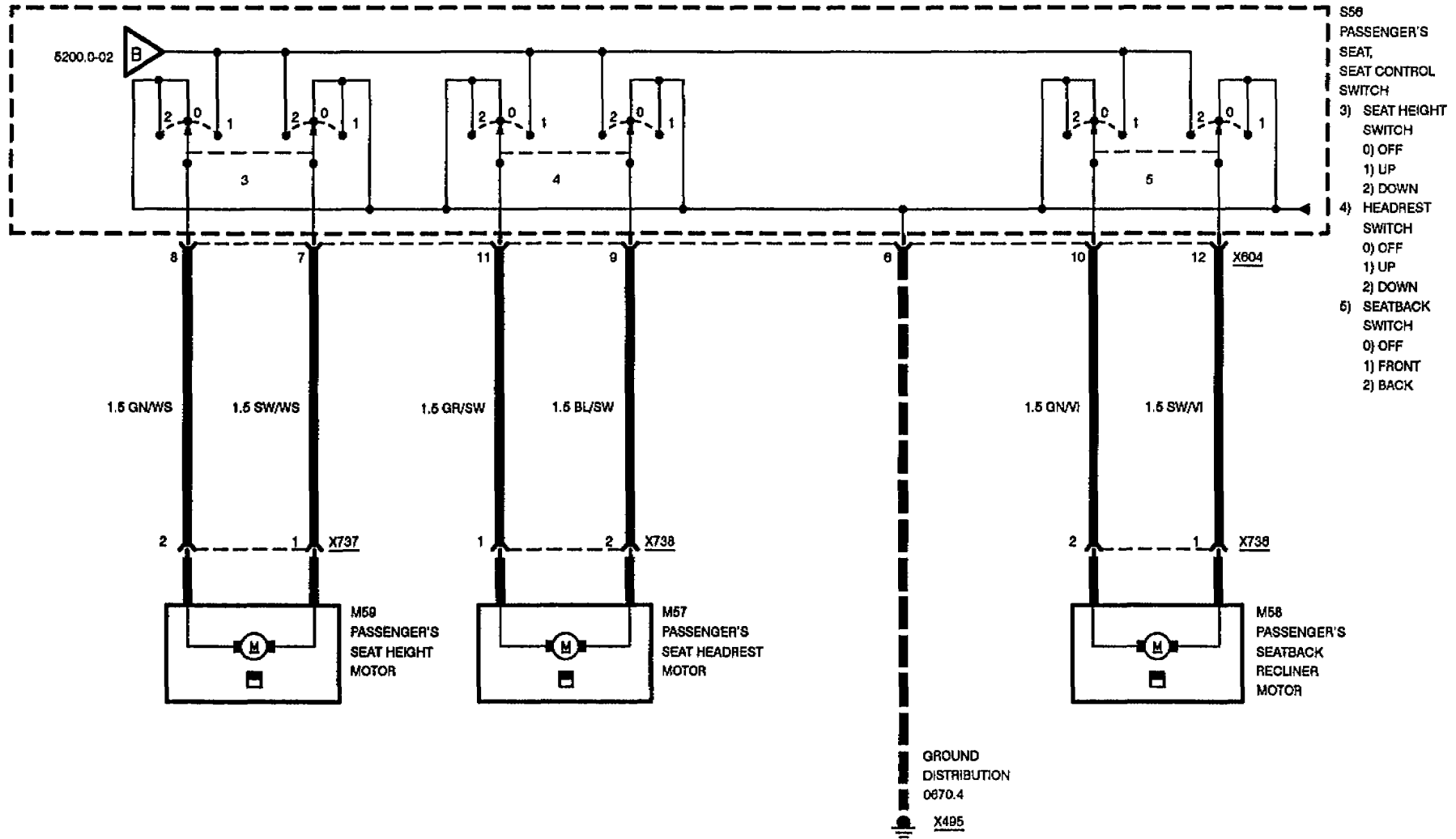
## PASSENGER'S SEAT





# POWER SEATS

## PASSENGER'S SEAT

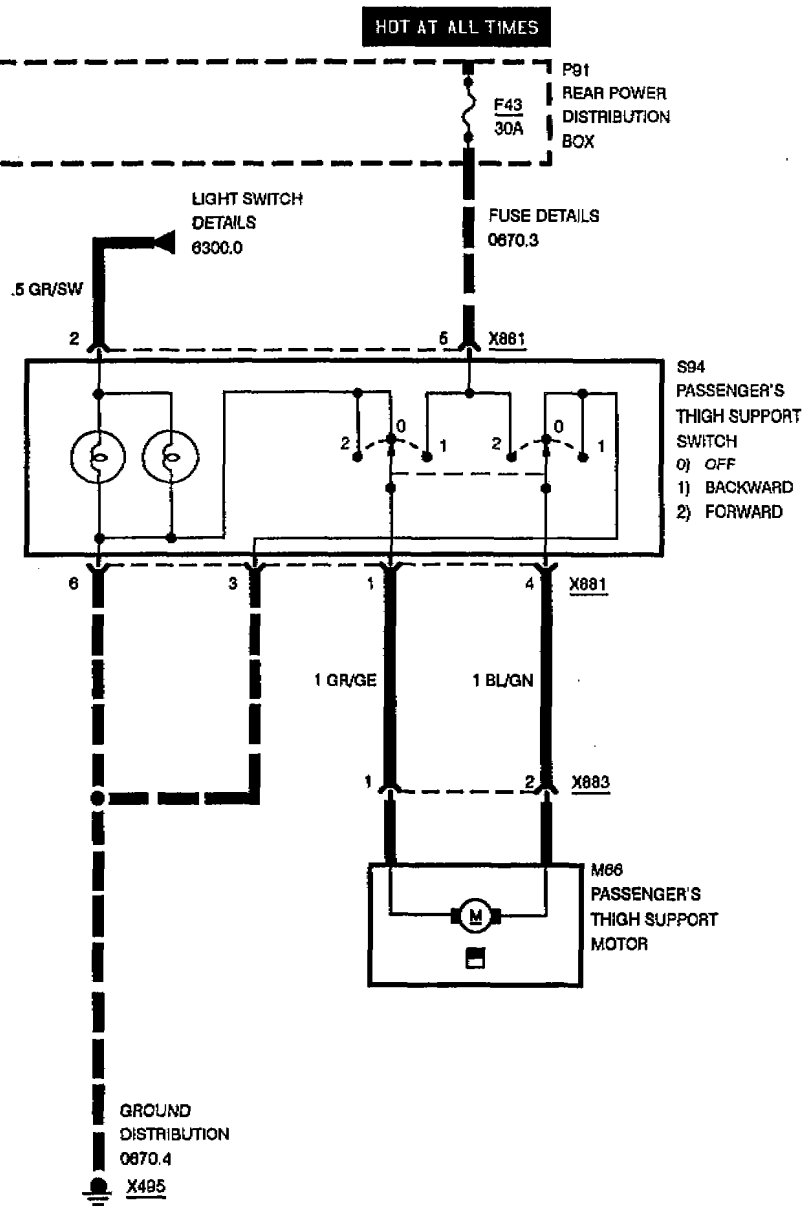
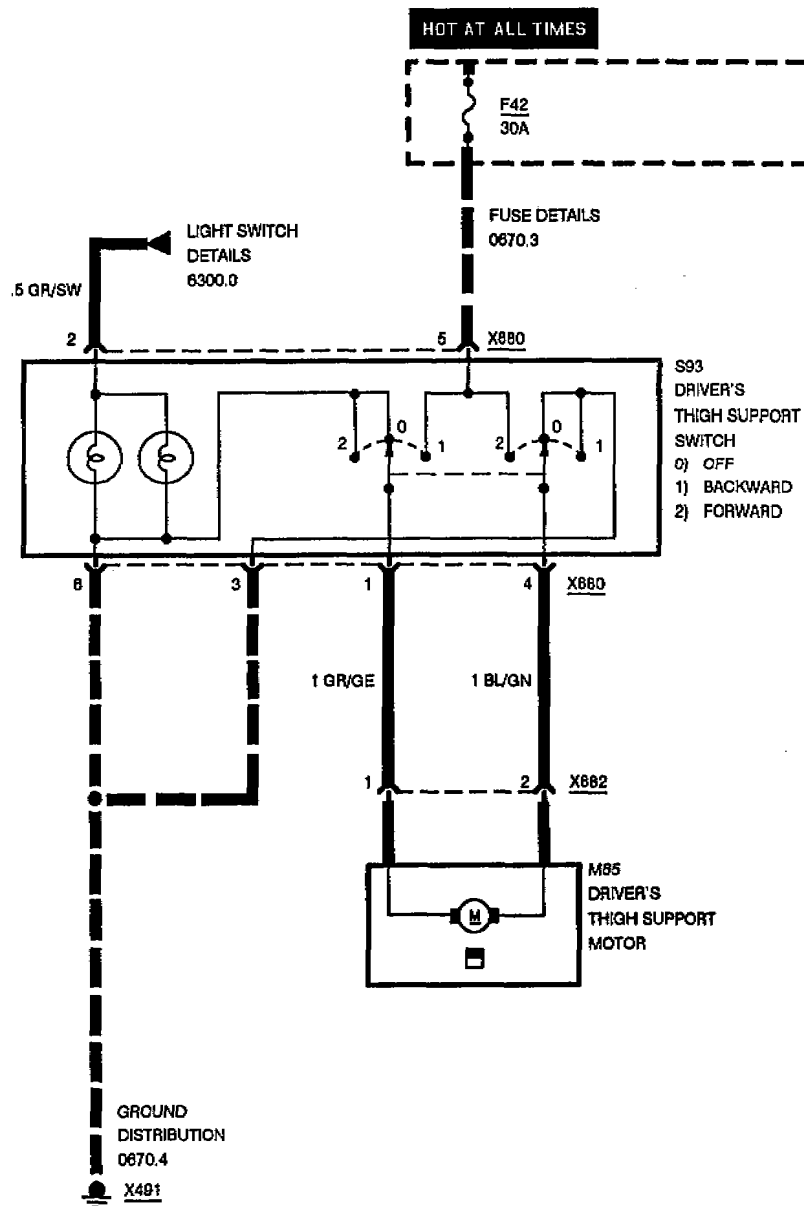


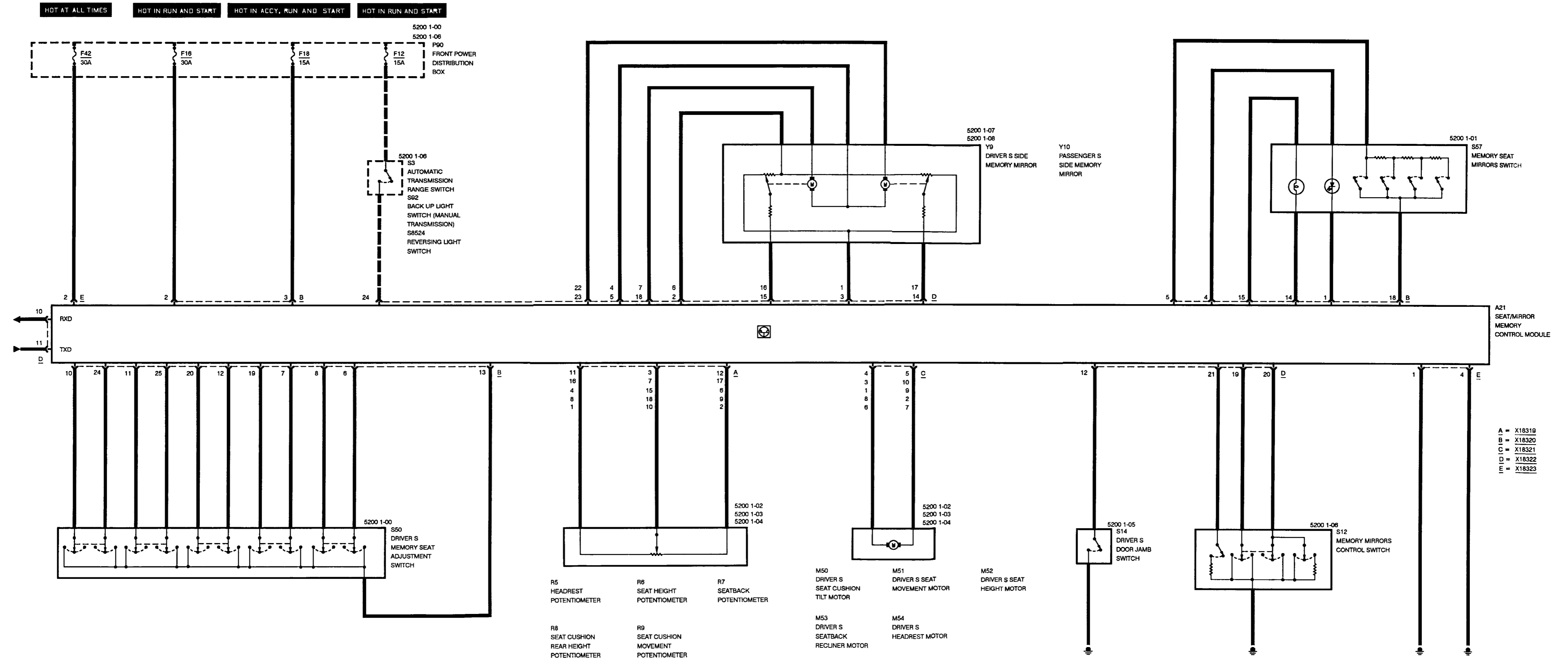


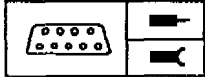


# POWER SEATS

## THIGH SUPPORT, WITH SPORT SEATS ONLY







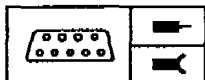
## Pin Assignments

A=X18319	18 Pins, black
B=X18320	26 Pins, natural
C=X18321	10 Pins, black
D=X18322	26 Pins, black
E=X18323	4 Pins, black

### X18319

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

E = Input, A = Output, M = Ground

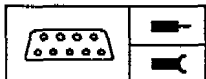


## Pin Assignments

### X18320

Pin	Type	Description/Function	Connection
1	A	Memory seat/mirrors switch LED (+)	Memory seat/mirrors switch
2	E	Voltage supply (terminal 15)	Front power distribution box
3	E	Voltage supply (terminal R)	Front power distribution box
4	A	Memory seat/mirrors switch LED (-)	Memory seat/mirrors switch
5	A	Voltage supply for memory seat/ mirrors switch	Memory seat/mirrors switch
6	E	Backrest, back	Seat control switch, driver's seat
7	E	Headrest, up	Seat control switch, driver's seat
8	E	Backrest, forward	Seat control switch, driver's seat
9		Not used	
10	E	Seat movement, back	Seat control switch, driver's seat
11	E	Tilt, up	Seat control switch, driver's seat
12	E	Height, down	Seat control switch, driver's seat
13	M	Ground	Seat control switch, driver's seat
14	A	Switch illumination (-)	Memory seat/mirrors switch
15	A	Switch illumination (+)	Memory seat/mirrors switch
16		Not used	
17		Not used	
18	E	Memory seat/mirrors switch signal	Memory seat/mirrors switch
19	E	Headrest, down	Seat control switch, driver's seat
20	E	Height, up	Seat control switch, driver's seat
21		Not used	
22		Not used	
23		Not used	
24	E	Seat movement, back	Seat control switch, driver's seat
25	E	Tilt, down	Seat control switch, driver's seat
26		Not used	

E = Input, A = Output, M = Ground



## Pin Assignments

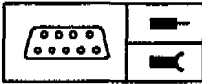
### X18321

Pin	Type	Description/Function	Connection
1	E/A	Motor voltage/ground	Seat movement motor, driver's
2	E/A	Motor voltage/ground	Headrest motor, driver's
3	E/A	Motor voltage/ground	Seat back recliner motor, driver's
4	E/A	Motor voltage/ground	Seat cushion tilt motor, driver's
5	E/A	Motor voltage/ground	Seat cushion tilt motor, driver's
6	E/A	Motor voltage/ground	Seat height motor, driver's
7	E/A	Motor voltage/ground	Seat height motor, driver's
8	E/A	Motor voltage/ground	Headrest motor, driver's
9	E/A	Motor voltage/ground	Seat movement motor, driver's
10	E/A	Motor voltage/ground	Seat back recliner motor, driver's

### X18322

Pin	Type	Description/Function	Connection
1	M	Position potentiometer	Memory mirror, passenger's side
2	A	Position potentiometer	Memory mirror, driver's side
3	M	Position potentiometer	Memory mirror, driver's side
4	E/A	Mirror adjustment motor horizontal/vertical	Memory mirror, driver's side
5	E/A	Mirror adjustment motor horizontal/vertical	Memory mirror, passenger's side
6	A	Position potentiometer	Memory mirror, passenger's side
7	E/A	Mirror adjustment motor, vertical	Memory mirror, driver's side
8		Not used	
9		Not used	
10	A	RxD diagnostic data link	Data link connector
11	E/A	TxD diagnostic data link	Data link connector
12	E	Driver's door status	Door jamb switch, driver's
13		Not used	
14	E	Potentiometer connection	Memory mirror, driver's side
15	E	Potentiometer connection	Memory mirror, driver's side
16	E	Potentiometer connection	Memory mirror, passenger's side
17	E	Potentiometer connection	Memory mirror, passenger's side

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
18	E/A	Mirror adjustment motor	Memory mirror, driver's side
19	E	Mirror adjustment, L/R	Memory seat/mirror switch
20	E	Mirror adjustment, L/R and U/D	Memory seat/mirror switch
21	E	Mirror select signal	Memory seat/mirror switch
22	A	Potentiometer connection	Memory mirror, passenger's side
23	A	Potentiometer connection	Memory mirror, driver's side
24	E	Reverse gear signal	Automatic transmission range switch or back up switch
25		Not used	
26		Not used	

### X18323

Pin	Type	Description/Function	Connection
1	M	Ground	Ground point
2	E	Voltage supply (terminal 30)	Front power distribution box
3		Not used	
4	M	Ground	Ground point

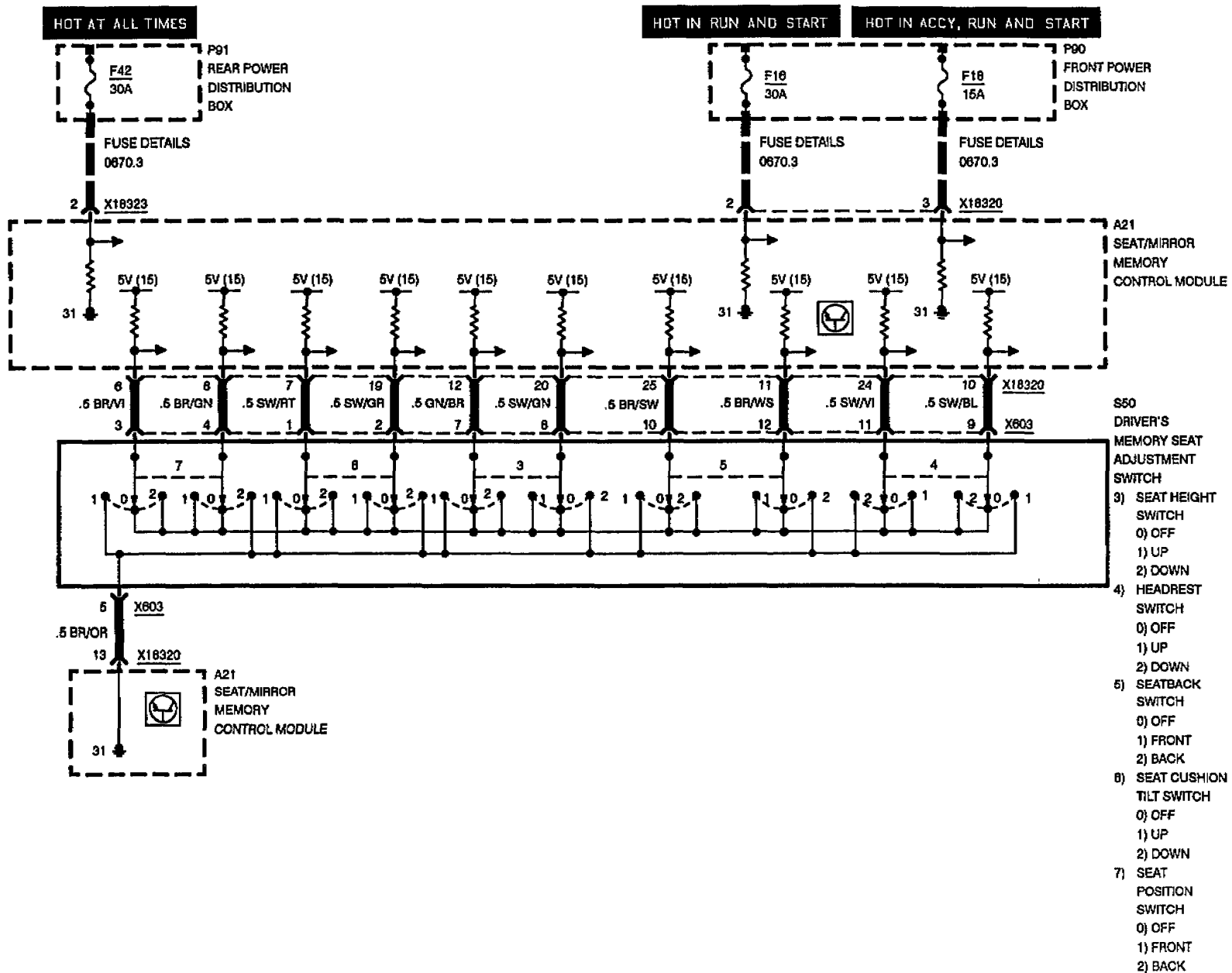
E = Input, A = Output, M = Ground

BMW  
**5**

5200.1



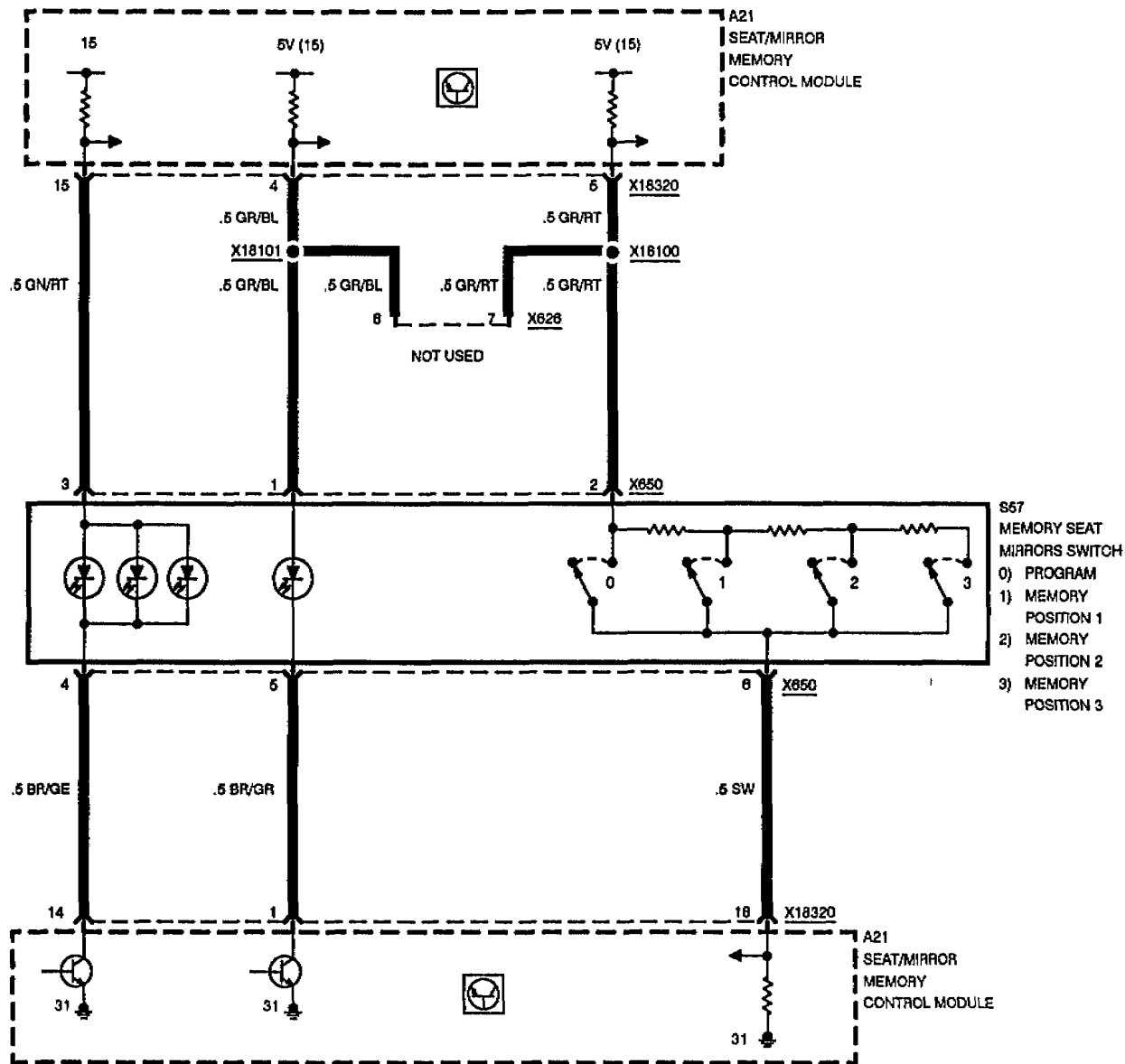
# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)







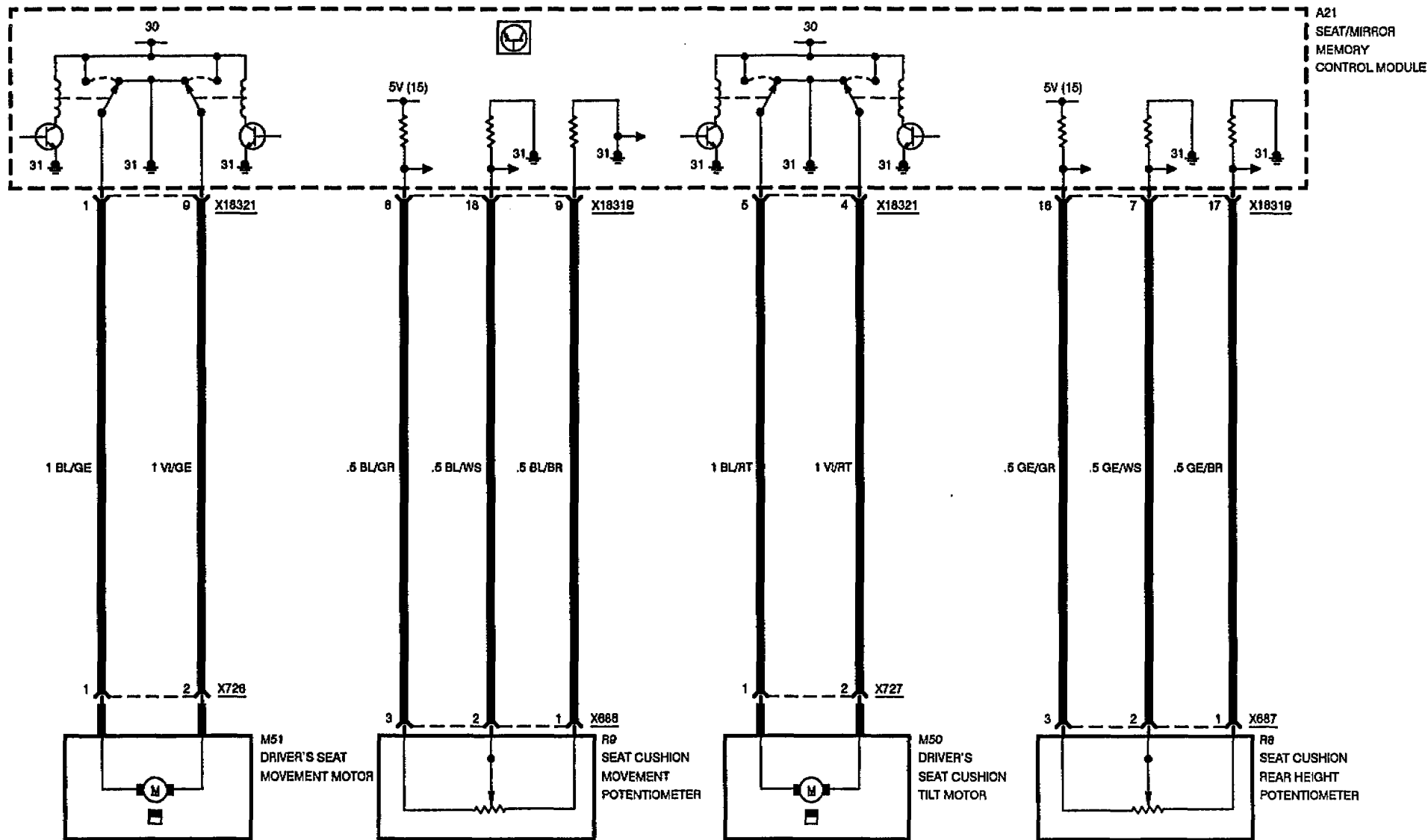
# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)





# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

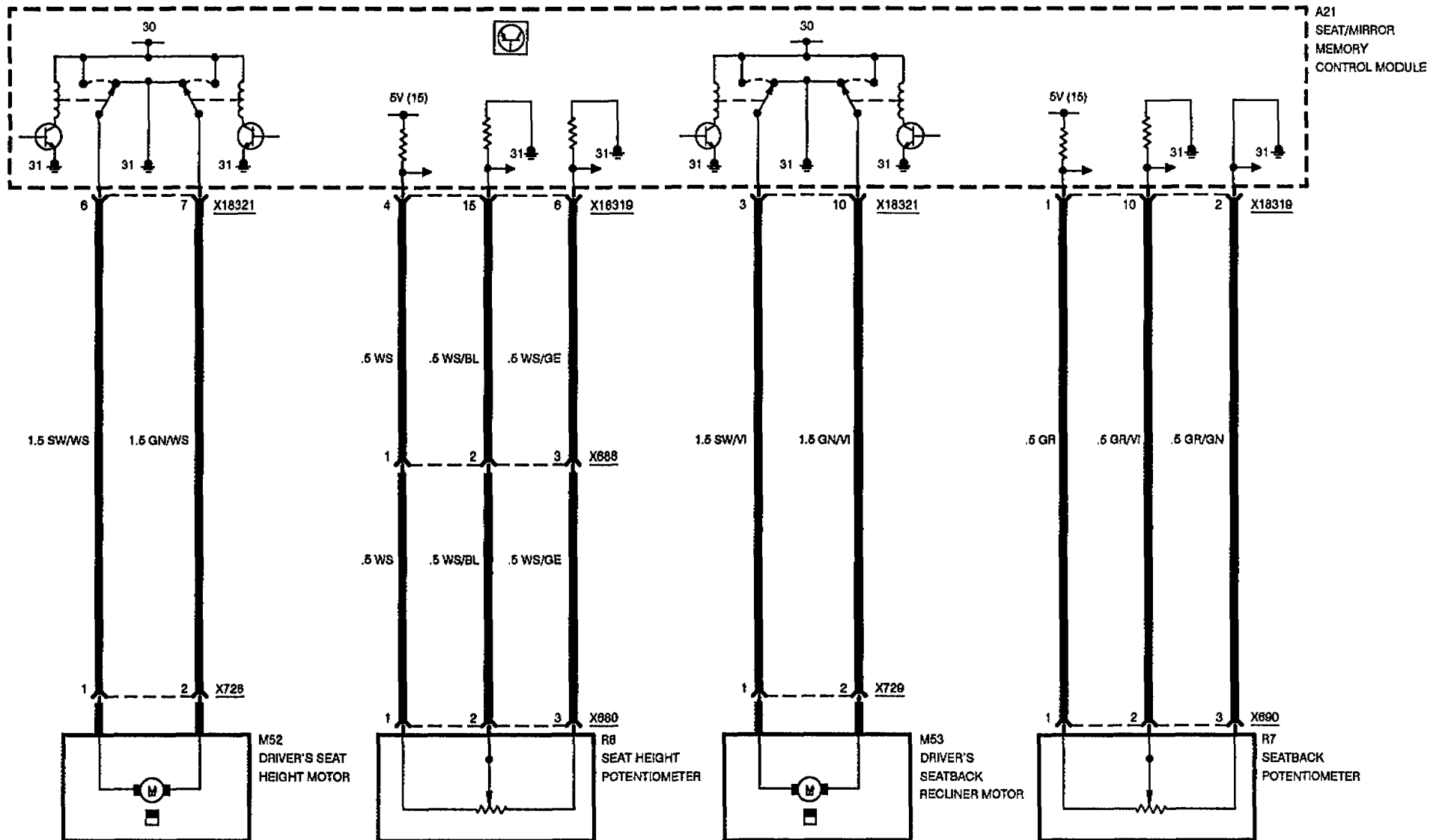
## SEAT





# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

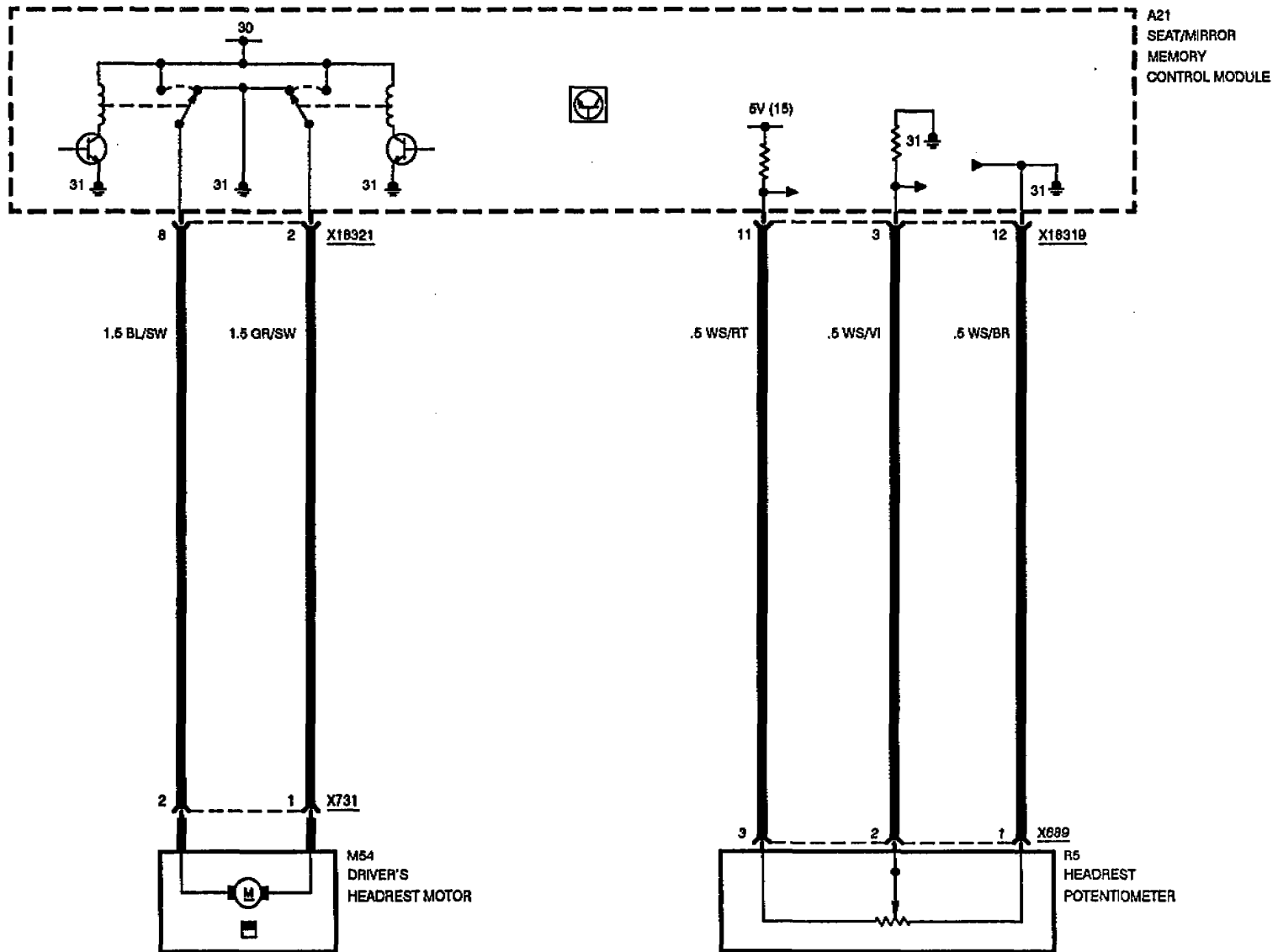
## SEAT





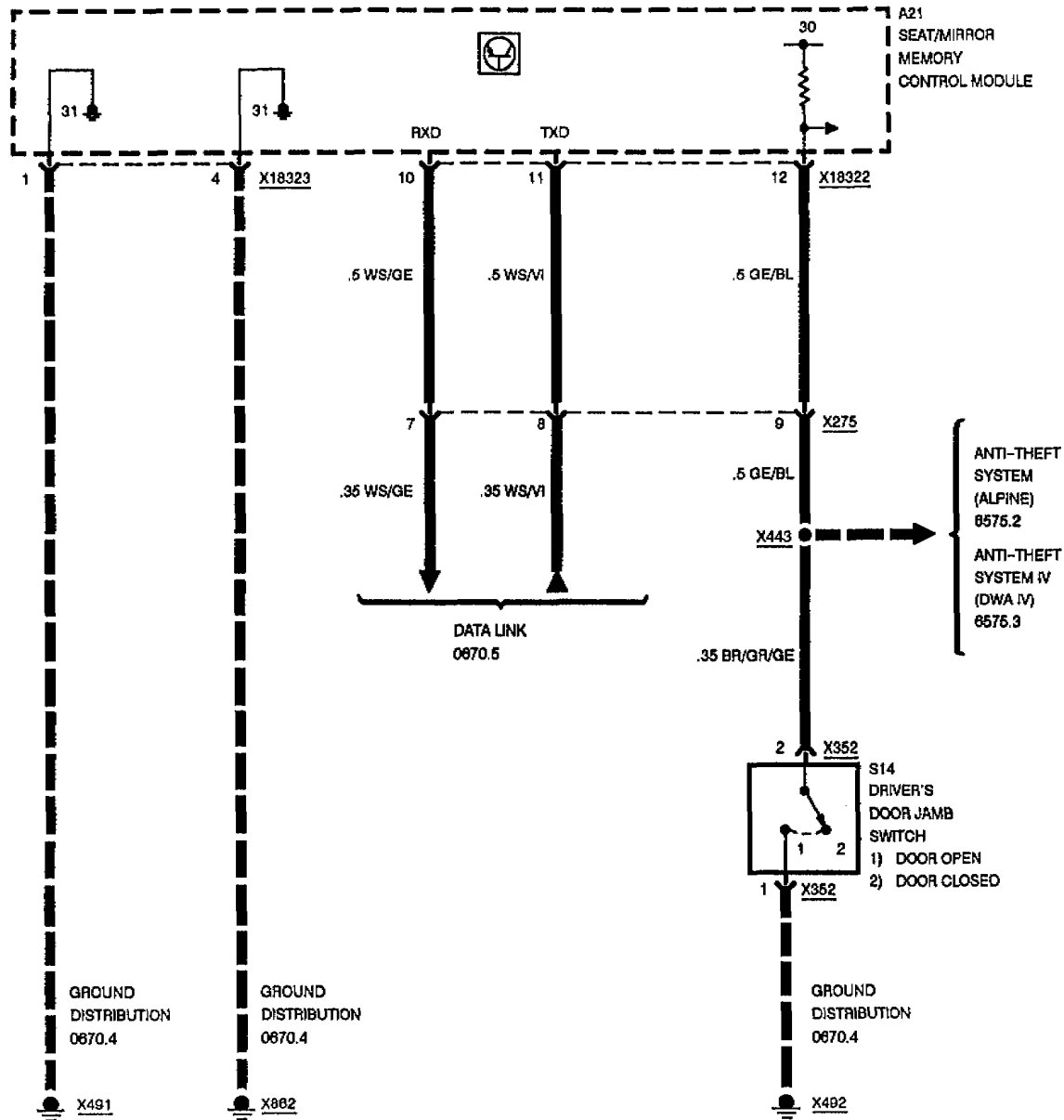
# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

## SEAT





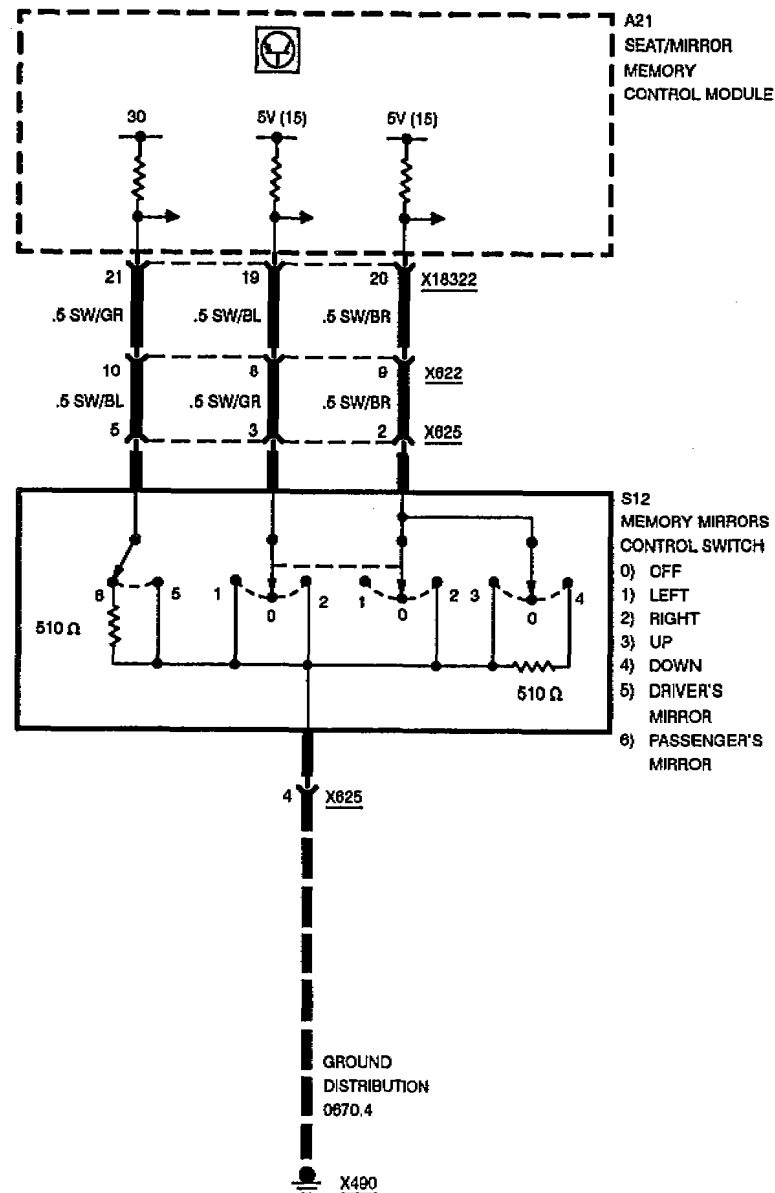
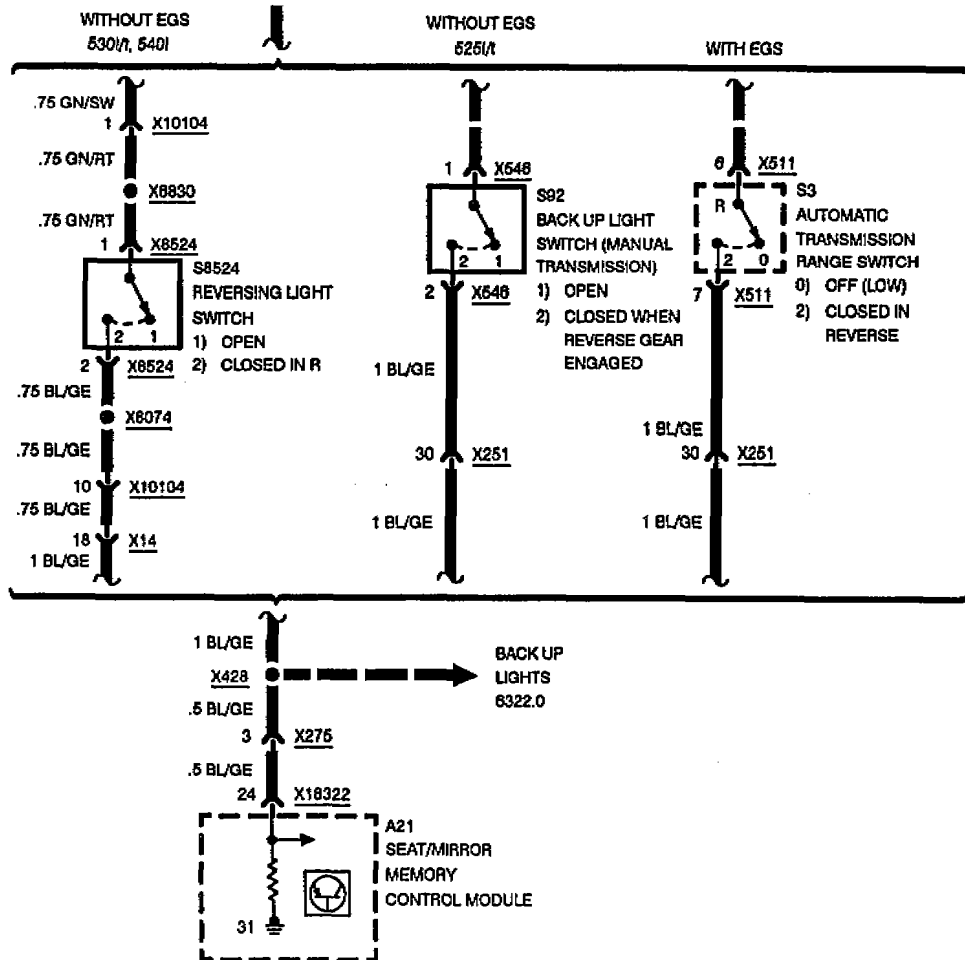
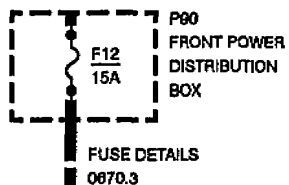
# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)





# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

HOT IN RUN AND START

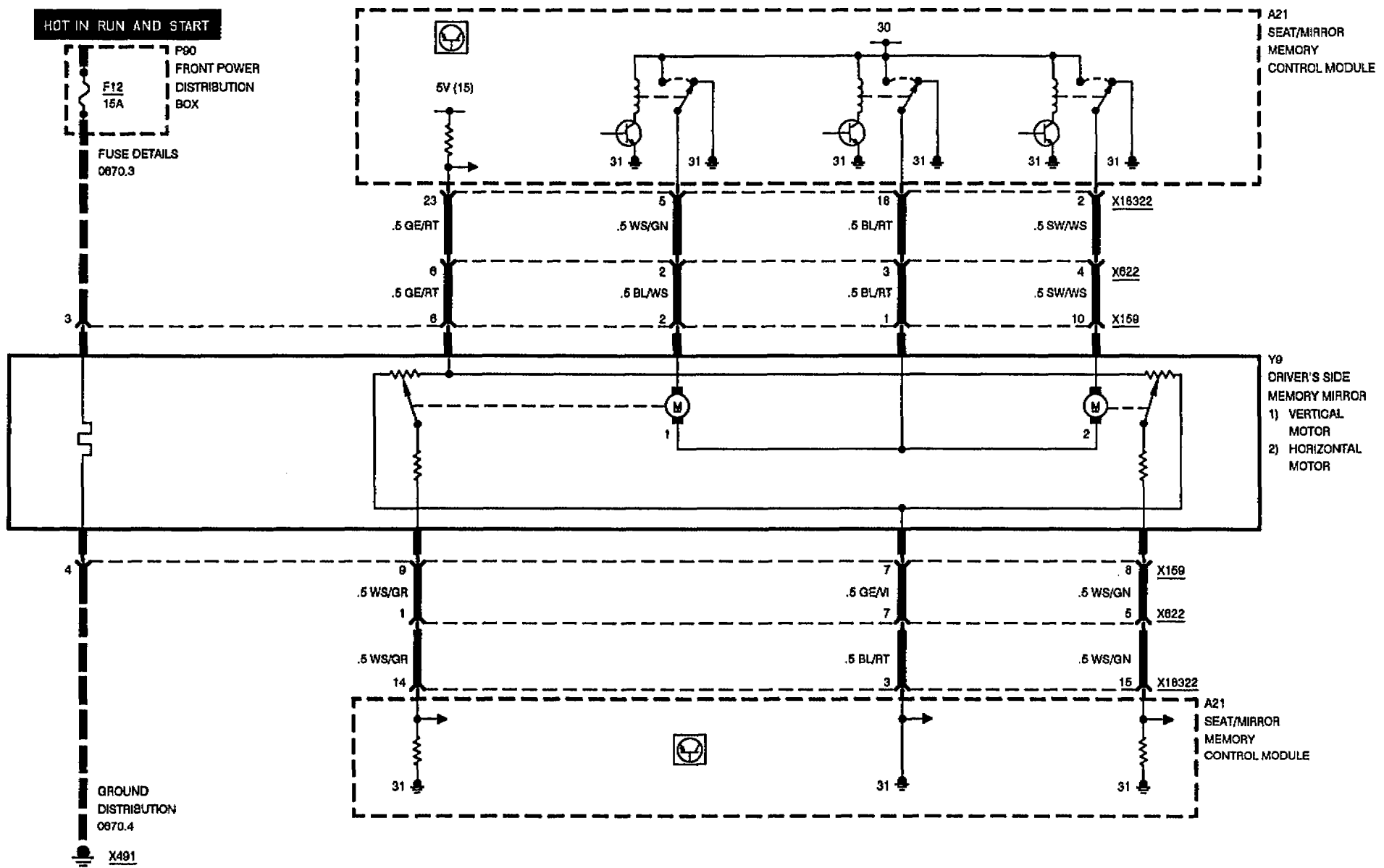




# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

## MIRROR

HOT IN RUN AND START

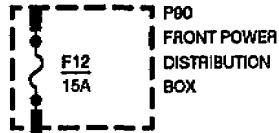




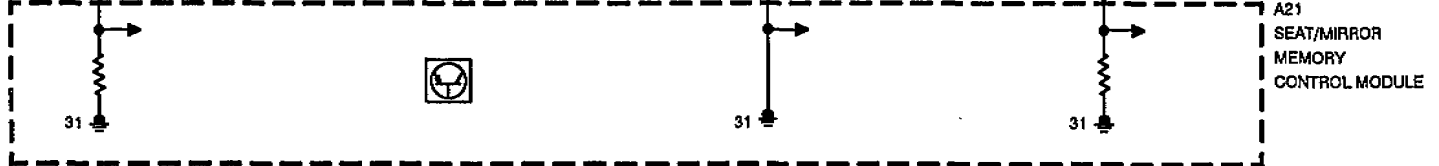
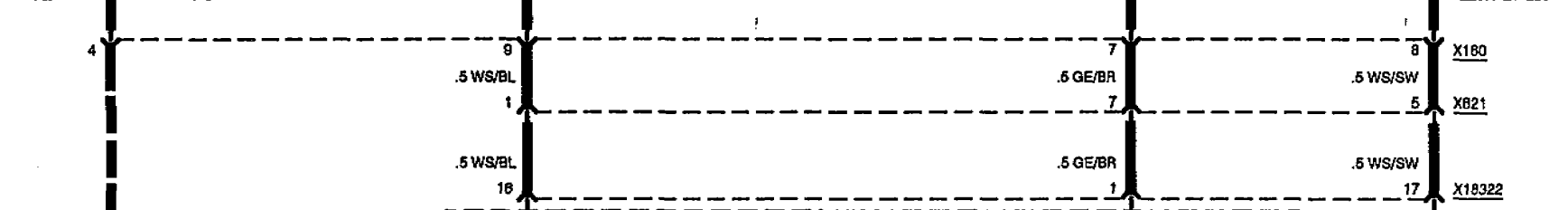
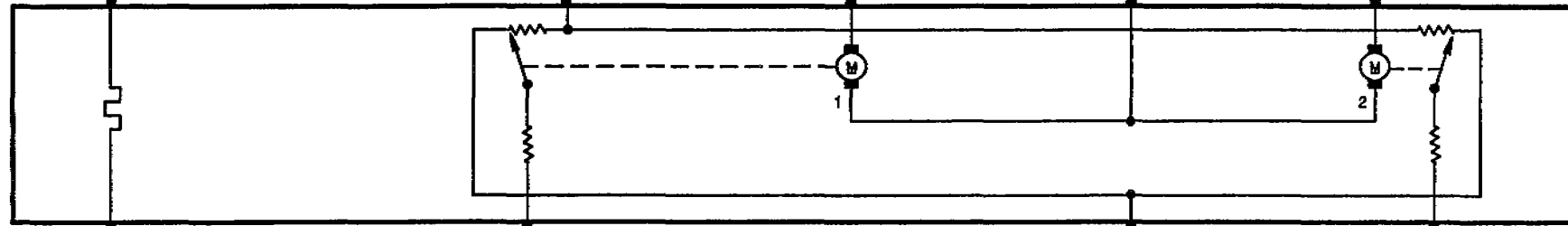
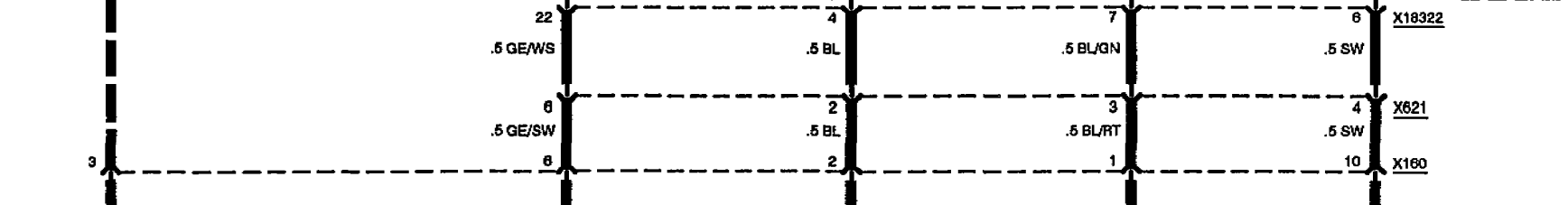
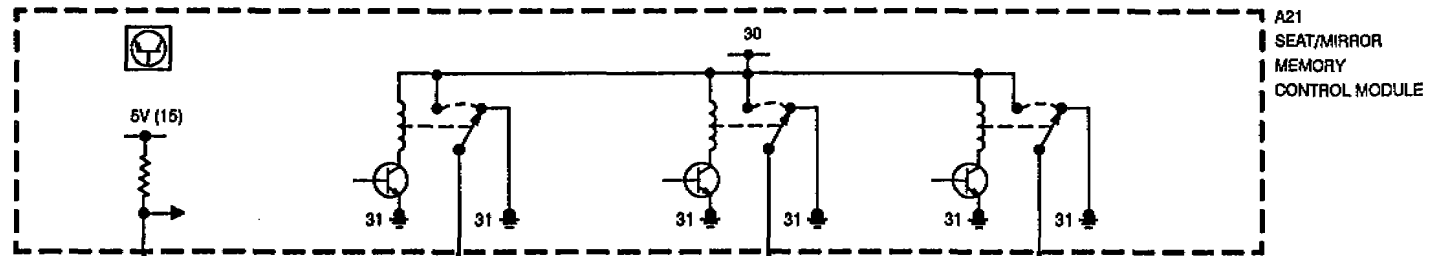
# SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

## MIRROR

HOT IN RUN AND START



FUSE DETAILS  
0670.3



GROUND  
DISTRIBUTION  
0670.4

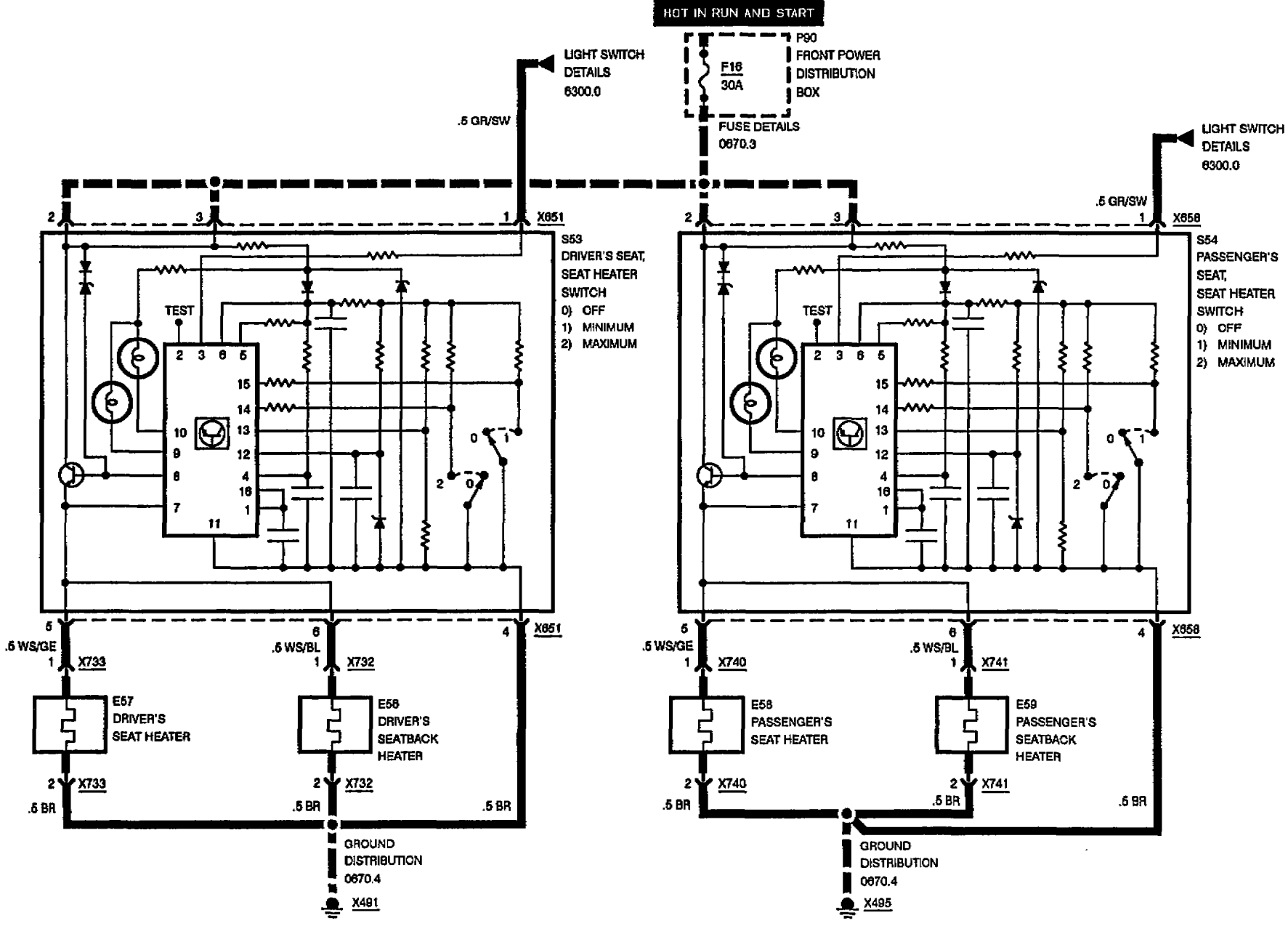








# HEATED SEATS

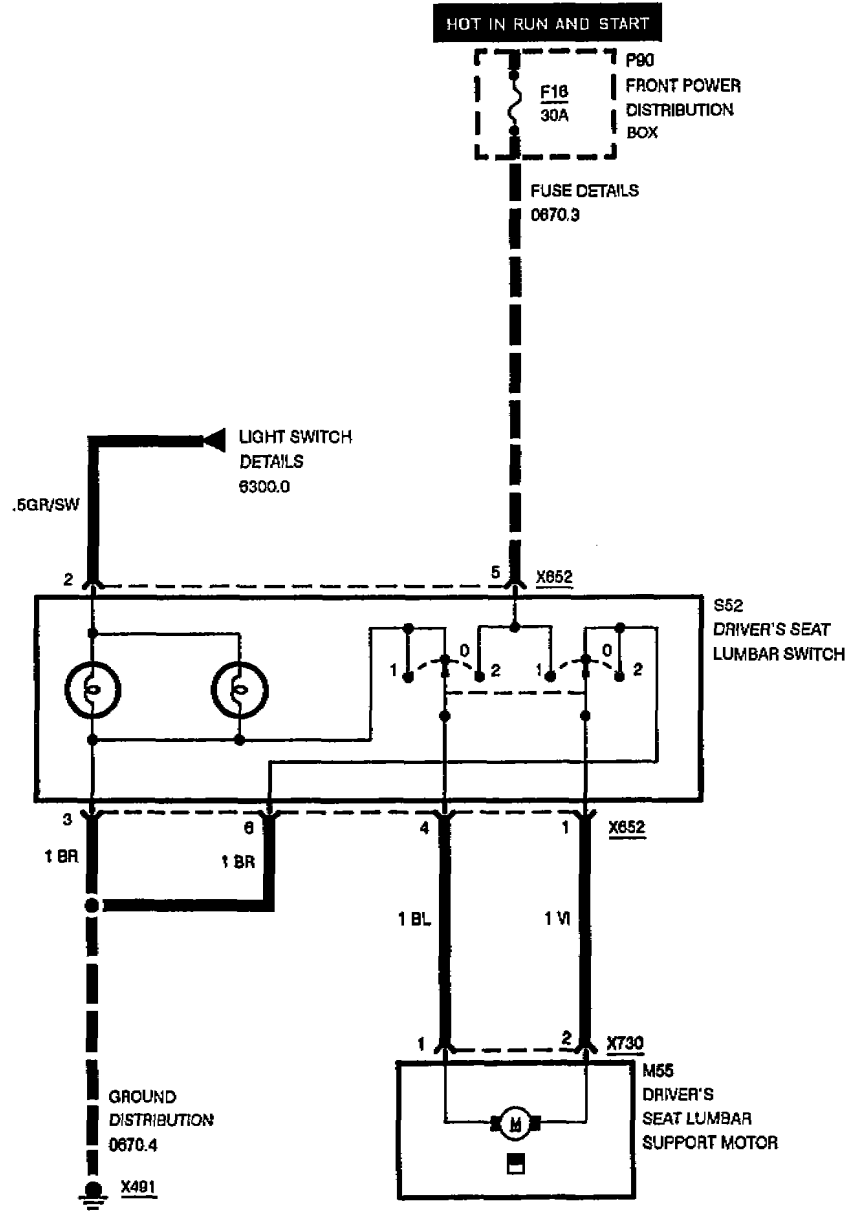


BMW  
5

5212.0



# LUMBAR SUPPORT DRIVER'S SIDE



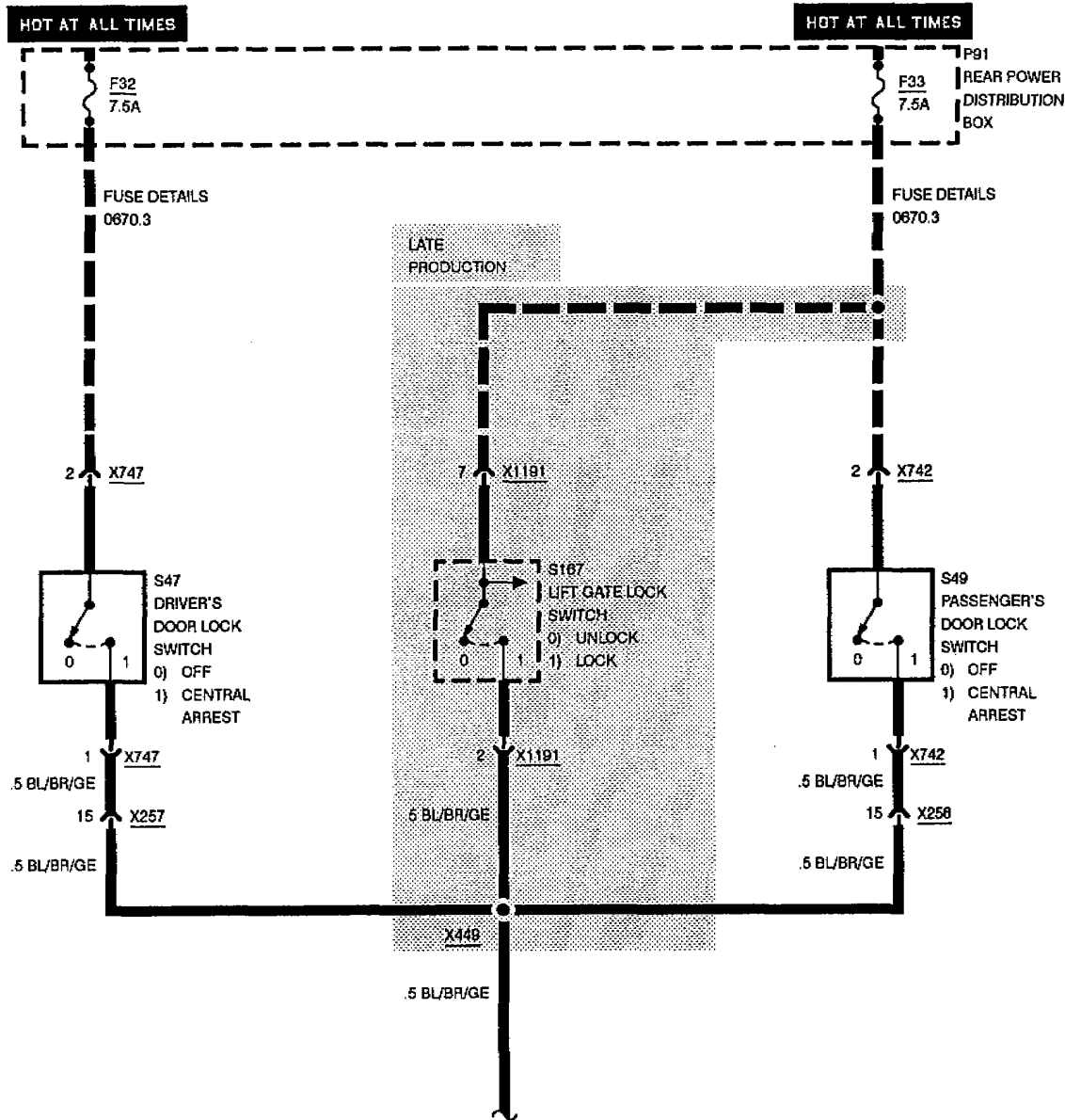
BMW  
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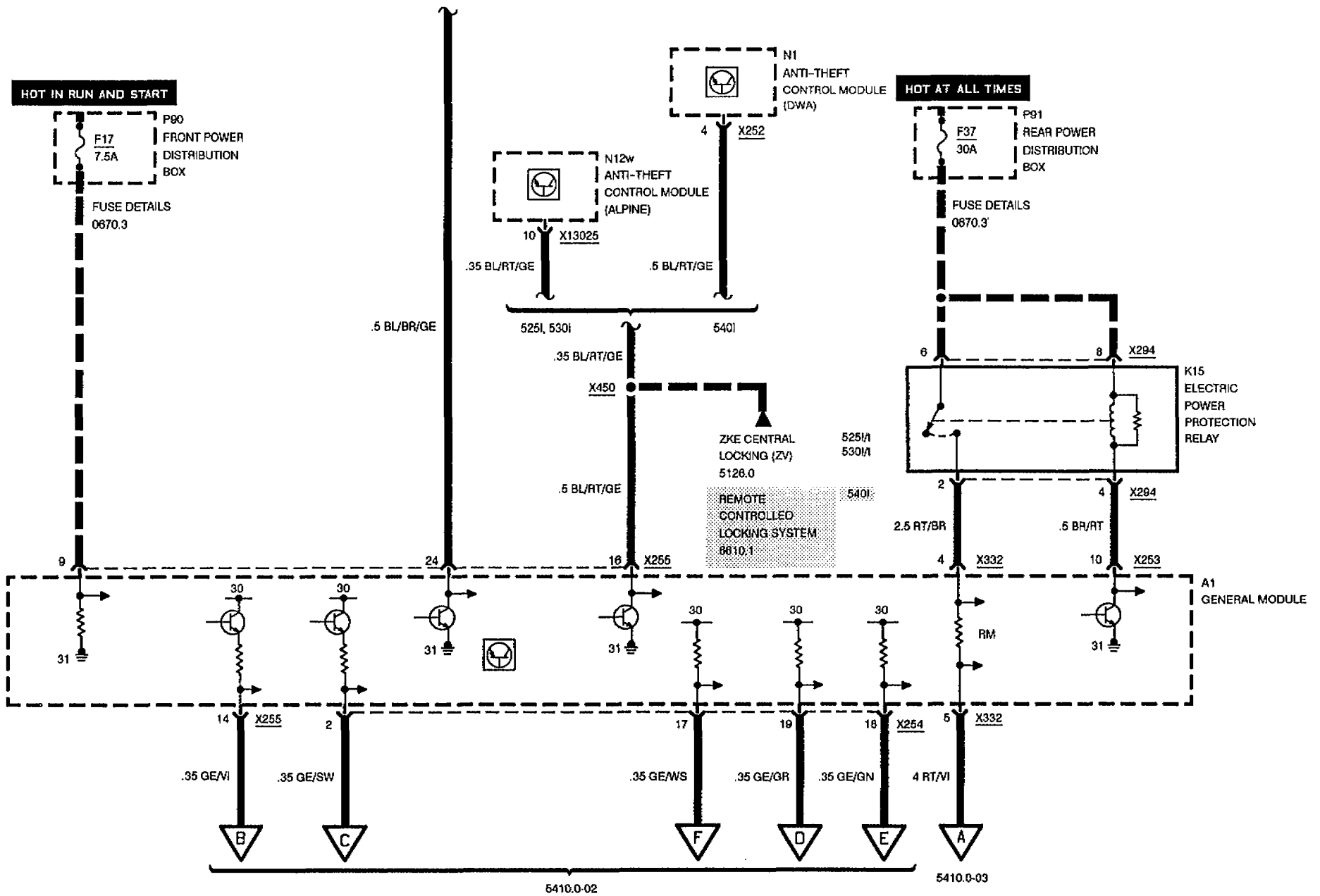
5410.0



# ZKE SUNROOF (SHD)

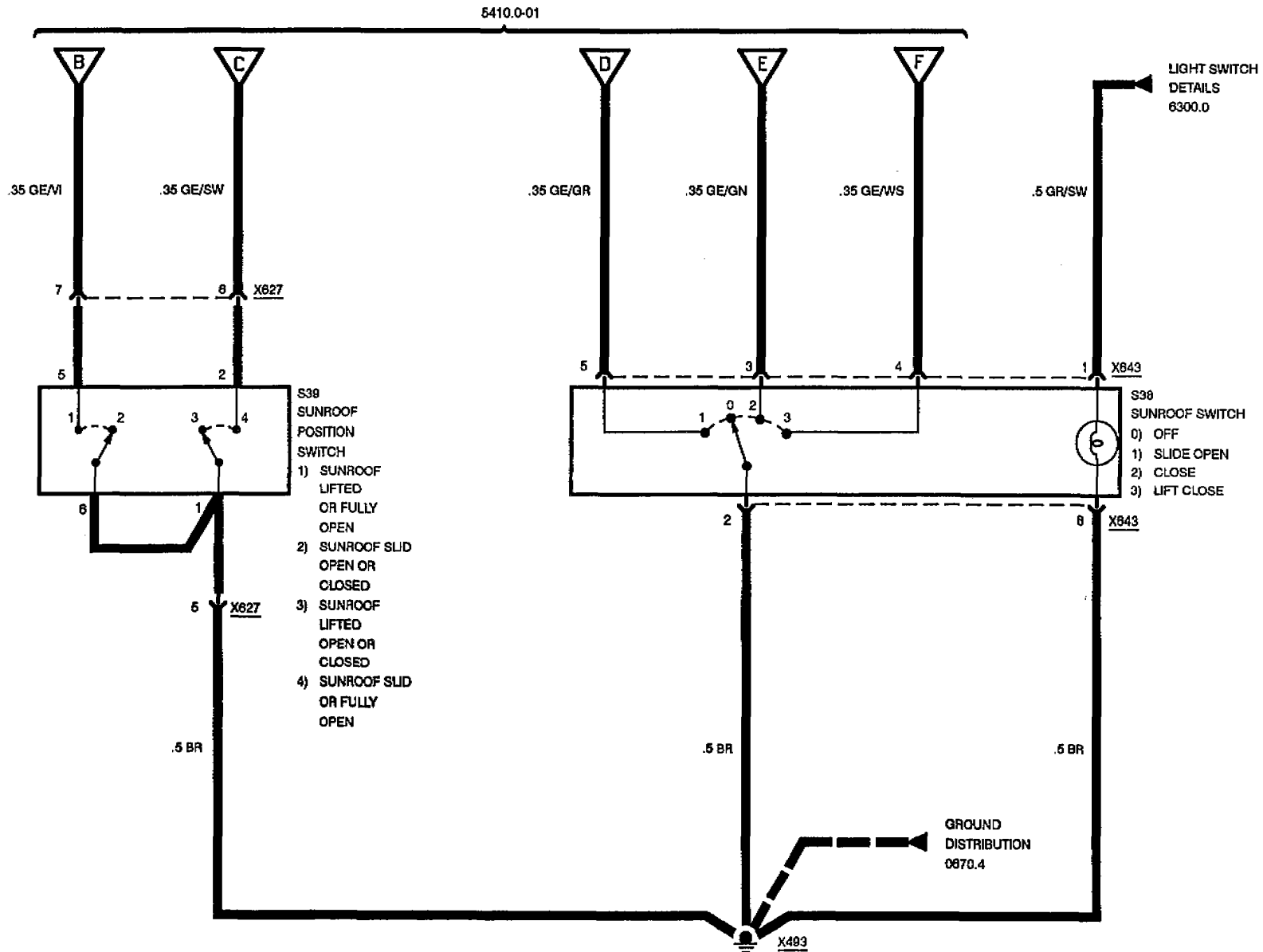
## INPUT DETAILS







# ZKE SUNROOF (SHD) INPUT DETAILS

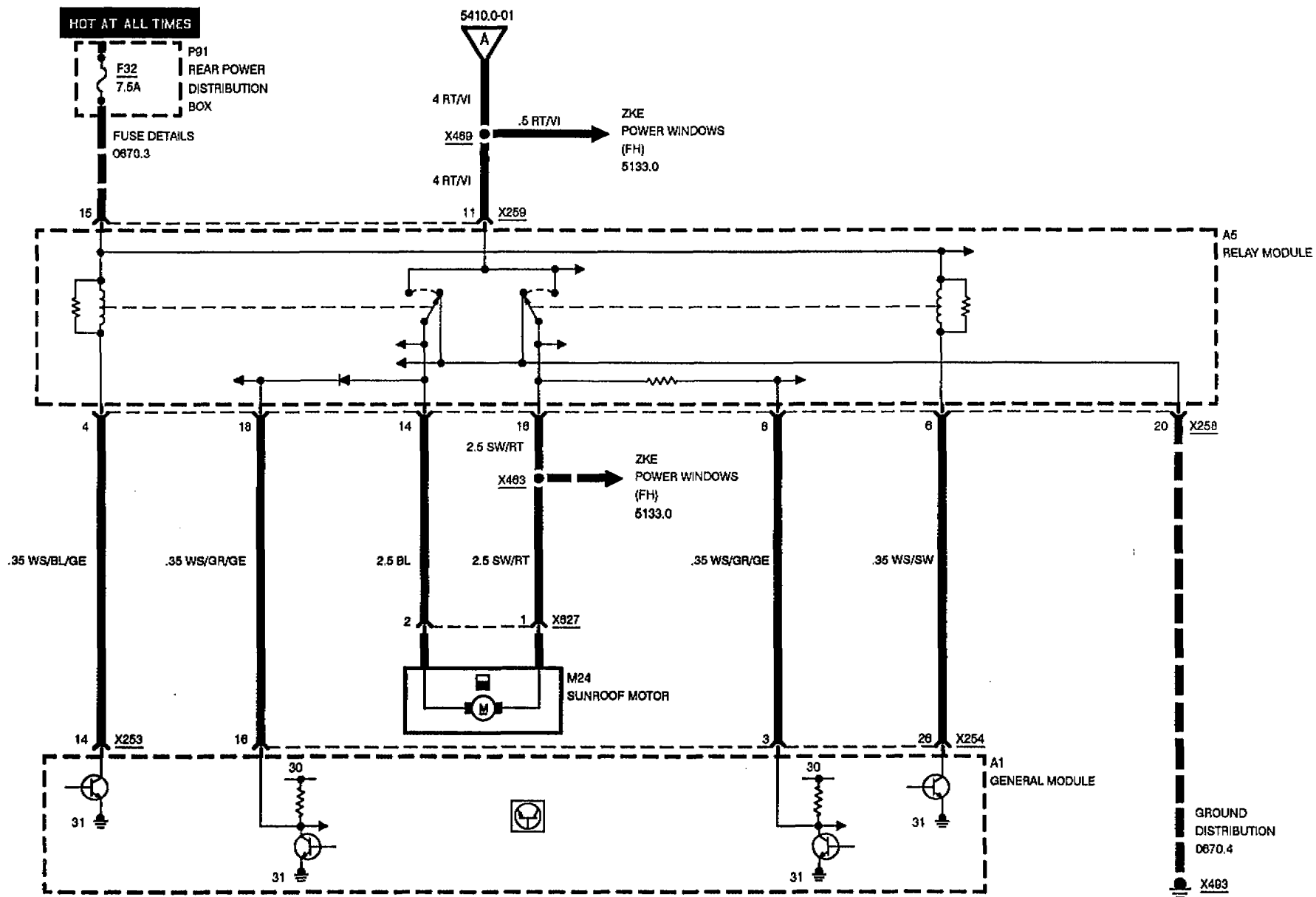






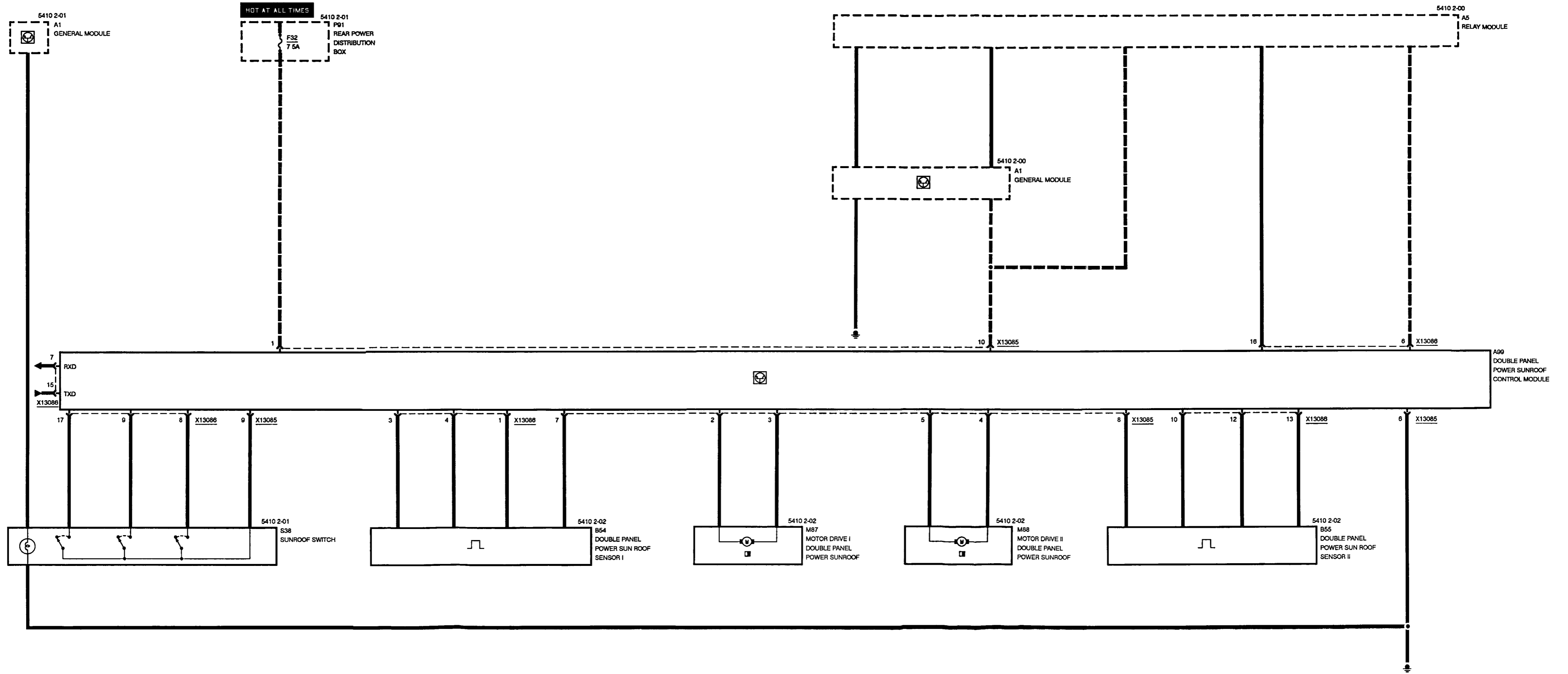
# ZKE SUNROOF (SHD)

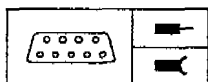
## OUTPUT DETAILS





5410.0-04





## Pin Assignments

A=X13085 10 Pins

B=X13086 18 Pins

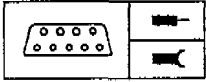
### X13085

Pin	Type	Description/Function	Connect
1	E	Terminal 30, voltage supply	Rear power distribution box, fuse 32
2	E/A	Motor voltage/ground	Motor drive I double panel power sunroof
3	E/A	Motor voltage/ground	Motor drive I double panel power sunroof
4	E/A	Motor voltage/ground	Motor drive II double panel power sunroof
5	E/A	Motor voltage/ground	Motor drive II double panel power sunroof
6	M	Module ground	Ground point
7	A	Power	Contact, front roof
8	A	Power	Contact, rear roof
9	A	Power	Sunroof switch
10	E	Power	General module

### X13086

Pin	Type	Description/Function	Connect
1	E	Position contact	Contact, front roof
2		Not used	
3	E	Position contact	Contact, front roof
4	E	Position contact	Contact, front roof
5		Not used	
6	E	Control signal	Relay module
7	E	RxD diagnostic data link	Data link connector
8	E	Switch, closed	Sunroof switch
9	E	Switch, closed	Sunroof switch
10	E	Position contact	Contact, rear roof
11		Not used	
12	E	Position contact	Contact, rear roof

E = Input, A = Output, M = Ground



## Pin Assignments

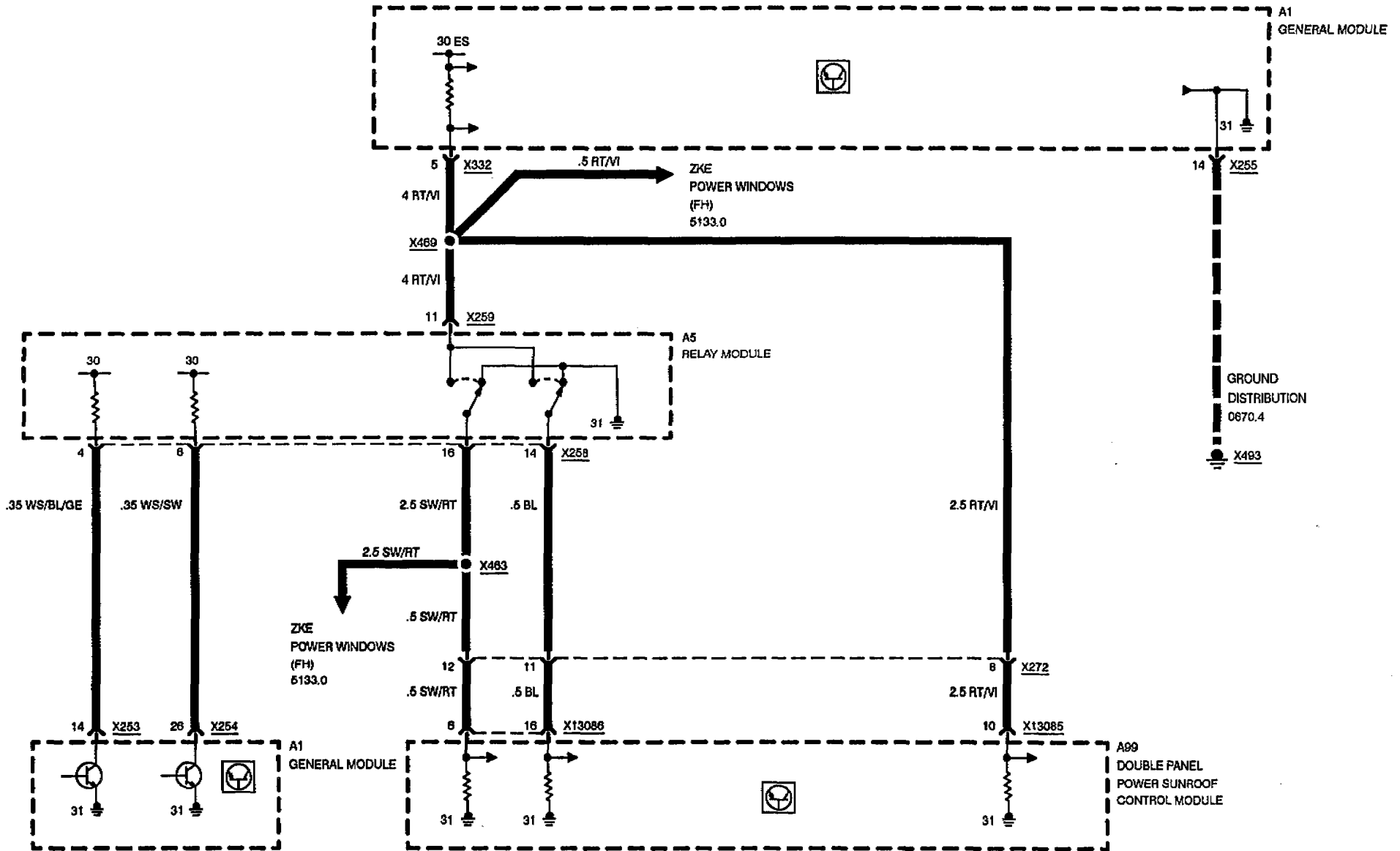
Pin	Type	Description/Function	Connect
13	E	Position contact	Contact, rear roof
14		Not used	
15	E/A	TxD diagnostic data link	Data link connector
16	E	MSD+	Relay module
17	E	Switch, closed	Sunroof switch
18		Not used	

E = Input, A = Output, M = Ground





# DOUBLE PANEL POWER SUNROOF (ZKE)

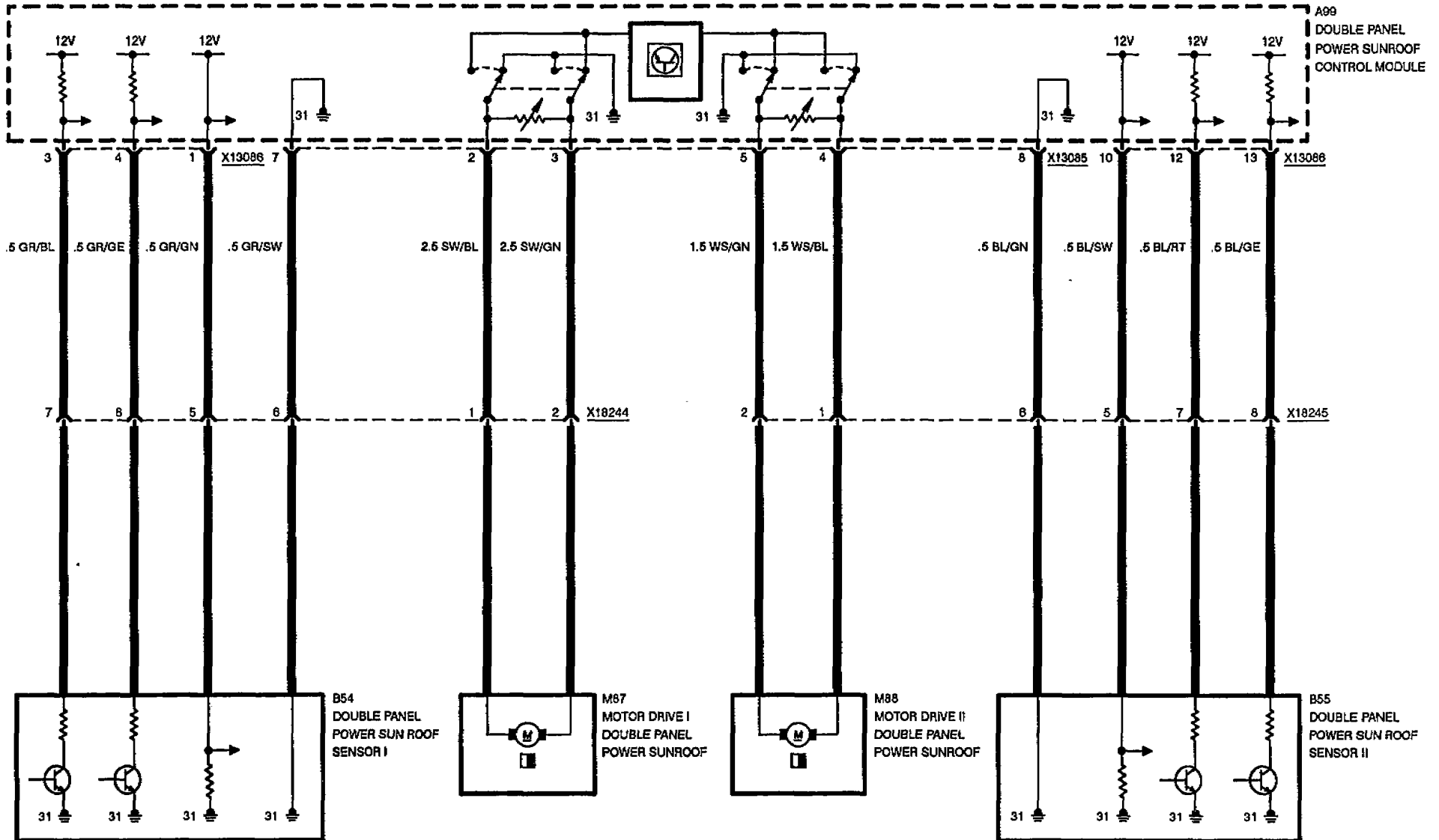


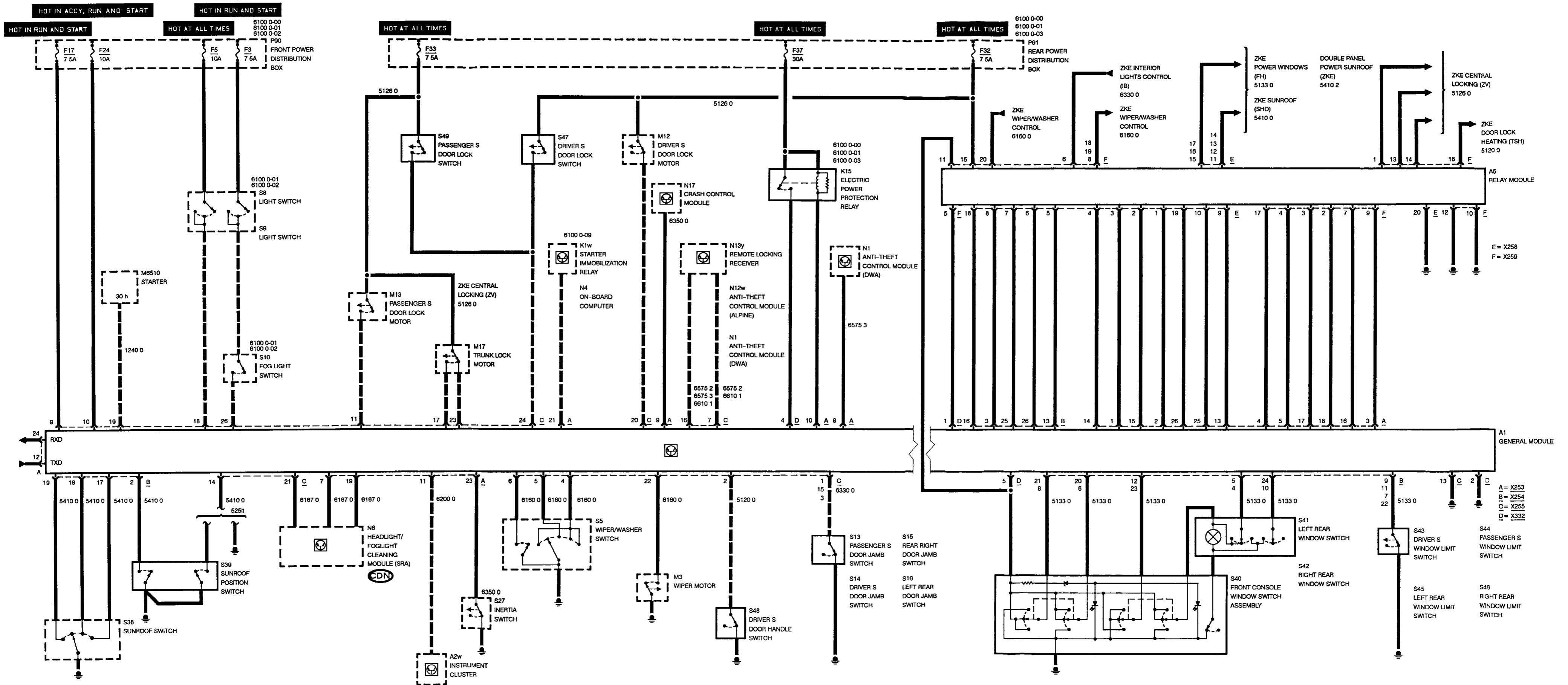


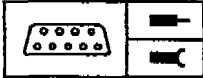




# DOUBLE PANEL POWER SUNROOF (ZKE)







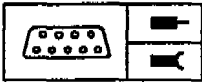
## Pin Assignments

A = X253	26 Pins, green
B = X254	26 Pins, white
C = X255	26 Pins, yellow
D = X332	5 Pins, white
E = X258	20 Pins, white
F = X259	20 Pins, black

### X253

Pin	Type	Description/Function	Connection
1	A	Passenger's window motor control	Relay module
2	A	Passenger's window motor control	Relay module
3	A	Wiper motor control	Relay module
4	A	Door lock heater control	Relay module
5	A	Lock motors control	Relay module
6		Not used	
7	A	Light cleaning control	Headlight/front fog light cleaning system module (SRA)
8	A	QZV	Anti-theft control module (DWA)
9	A	Crash information	Crash control module
10	A	Electric power control protection relay control	Electric power protection relay, terminal 85
11	E	Vehicle speed signal	Instrument cluster
12	E/A	TxD diagnostic data link	Data link connector
13	E	Data line	Relay module
14	A	Sunroof motor control	Relay module
15	A	Passenger's and right rear window motor control	Relay module
16	A	Interior lights control	Relay module
17	A	Lock motors control (close)	Relay module
18	A	Lock motors control (open)	Relay module
19	A	Light cleaning control	Headlight/front fog light cleaning system module (SRA)

E = Input, A = Output, M = Ground



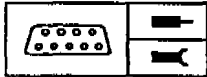
## Pin Assignments

Pin	Type	Description/Function	Connection
20		Not used	
21	A	Drive away protection	Engine control module (DME) Starter immobilization relay (Late Protection)
22		Not used	
23	E	Crash signal	Inertia switch
24	E	RxD diagnostic data link	Data link connector
25	E	Data line	Relay module
26	E	Data line	Relay module

### X254

Pin	Type	Description/Function	Connection
1		Not used	
2	E	Sunroof position signal	Sunroof position switch
3	E	Data line (window and sunroof motors position)	Relay module
4	E	Open right rear window signal (switch)	Right rear window switch
5	E	Open left rear window signal (switch)	Left rear window switch
6	E	Open passenger's window signal (switch)	Front console window switch assembly
7	E	Left rear window open signal (position)	Left rear window limit switch
8	E	Close passenger's window signal (switch)	Front console window switch assembly
9	E	Passenger's window open signal (position)	Passenger's window limit switch
10	E	Close right rear window signal (switch)	Right rear window switch
11	E	Driver's window open signal (position)	Driver's window limit switch
12	E	Close left rear window signal (switch)	Front console window switch assembly
13	A	Left rear window motor control	Relay module
14		Not used	
15		Not used	
16	E	Data line (window and sunroof motors position)	Relay module
17	E	Close sunroof lift signal	Sunroof switch
18	E	Close sunroof signal	Sunroof switch

E = Input, A = Output, M = Ground



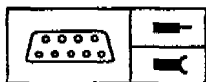
## Pin Assignments

Pin	Type	Description/Function	Connection
19	E	Open sunroof slide signal	Sunroof switch
20	E	Open driver's window signal (switch)	Front console window switch assembly
21	E	Close driver's window signal (switch)	Front console window switch assembly
22	E	Right rear window open signal (position)	Right rear window limit switch
23	E	Close right rear window signal (switch)	Front console window switch assembly
24	E	Close left rear window signal (switch)	Left rear window switch
25	A	Driver's window motor control	Relay module
26	A	Driver's and left rear window control/sunroof motor control	Relay module

### X255

Pin	Type	Description/Function	Connection
1	E	Passenger's door open signal	Passenger's door jamb switch
2	E	Driver's door handle lifted signal	Driver's door handle switch
3	E	Rear doors open signal	Rear door jamb switches
4	E	Standard wiper signal	Wiper/washer switch
5	E	Interval wiper signal	Wiper/washer switch
6	E	Wash signal	Wiper/washer switch
7	E	Anti-theft system control module (Alpine)	Anti-theft system control module (Alpine)
8		Not used	
9	E	Voltage supply, terminal 15	Front power distribution box
10	E	Voltage supply, terminal R	Front power distribution box
11	E	Passenger's door lock motor locked	Passenger's door lock motor
12		Not used	
13	M	Ground	Ground point
14	E	Sunroof position signal	Sunroof position switch
	M	Ground (525it)	Ground point
15	E	Driver's door open signal	Driver's door jamb switch
16	E	Anti-theft system control module	Anti-theft system control module
17	E	Unlock door lock motors signal	Trunk lock motor
18	E	Park or headlights ON signal	Light switch

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
19	E	Starter, terminal 30h	Starter
20	E	Driver's door lock motor locked	Door lock motor
21	E	Data line	Headlight/front fog light cleaning system module (SRA)
22	E	Wipers not in park signal	Wiper motor
23	E	Unlock trunk lock motor signal	Trunk lock motor
24	E	Lock front doors signal	Front door lock switches
25		Not used	
26	E	Front or rear fog lights ON signal	Fog light switch

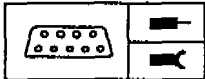
### X332

Pin	Type	Description/Function	Connection
1	E	Power for electronics	Relay module
2	M	Ground	Ground point
3		Not used	
4	E	Power input	Electric power protection relay, terminal 87
5	E	Power for electronics	Relay module, front console window switch assembly

### X258

Pin	Type	Description/Function	Connection
1	E	Right rear window motor control	General module
2	E	Passenger's and right rear window motor control	General module
3	E	Passenger's window motor control	General module
4	E	Sunroof motor control	General module
5	E	Left rear window motor control	General module
6	E	Driver's and left rear window motor control/ sunroof motor control	General module
7	E	Driver's window motor control	General module

E = Input, A = Output, M = Ground



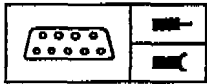
## Pin Assignments

Pin	Type	Description/Function	Connection
8	A	Data line (window and sunroof motors position)	General module
9	A	Data line	General module
10	A	Data line	General module
11	A	Right rear window motor power/ground supply	Right rear window motor
12	A	Passenger's and right rear window motor power/ground supply	Right rear window motor
13	A	Passenger's window motor power/ground supply	Passenger's window motor
14	A	Sunroof motor power/ground supply	Sunroof motor
15	A	Left rear window motor power/ground supply	Left rear window motor
16	A	Driver's window motor, left rear window motor, and sunroof motor power/ground supply	Driver's and left rear window motors/sunroof motor
17	A	Driver's window motor power/ground supply	Driver's window motor
18	A	Data line (window and sunroof motors position)	General module
19	A	Data line	General module
20	M	Ground	Ground point

### X259

Pin	Type	Description/Function	Connection
1	A	Lock motors voltage/ground supply	Door lock motors
2	E	Lock motors control (open)	General module
3	E	Lock motors control (close)	General module
4	E	Lock motors control	General module
5	A	Power output	General module
6	A	Interior lights ground supply (Automatic)	Interior lights
7	E	Interior lights control	General module
8	E	Fast wiper speed signal	Wiper/washer switch
9	E	Wiper motor control	General module

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
10	M	Ground	Ground point
11	E	Power input	General module
12	M	Ground	Ground point
13	A	Lock motors voltage/ground supply	Door lock motors
14	A	Central locking voltage/ground supply	Door lock motors
15	E	Voltage supply, terminal 30	Rear power distribution box
16	A	Door lock heater voltage supply	Door lock heater
17	E	Door lock heater control	General module
18	A	Wiper motor voltage supply (slow)	Wiper motor
19	A	Wiper motor voltage supply (fast)	Wiper motor
20	E	Power input	Wiper relay

E = Input, A = Output, M = Ground



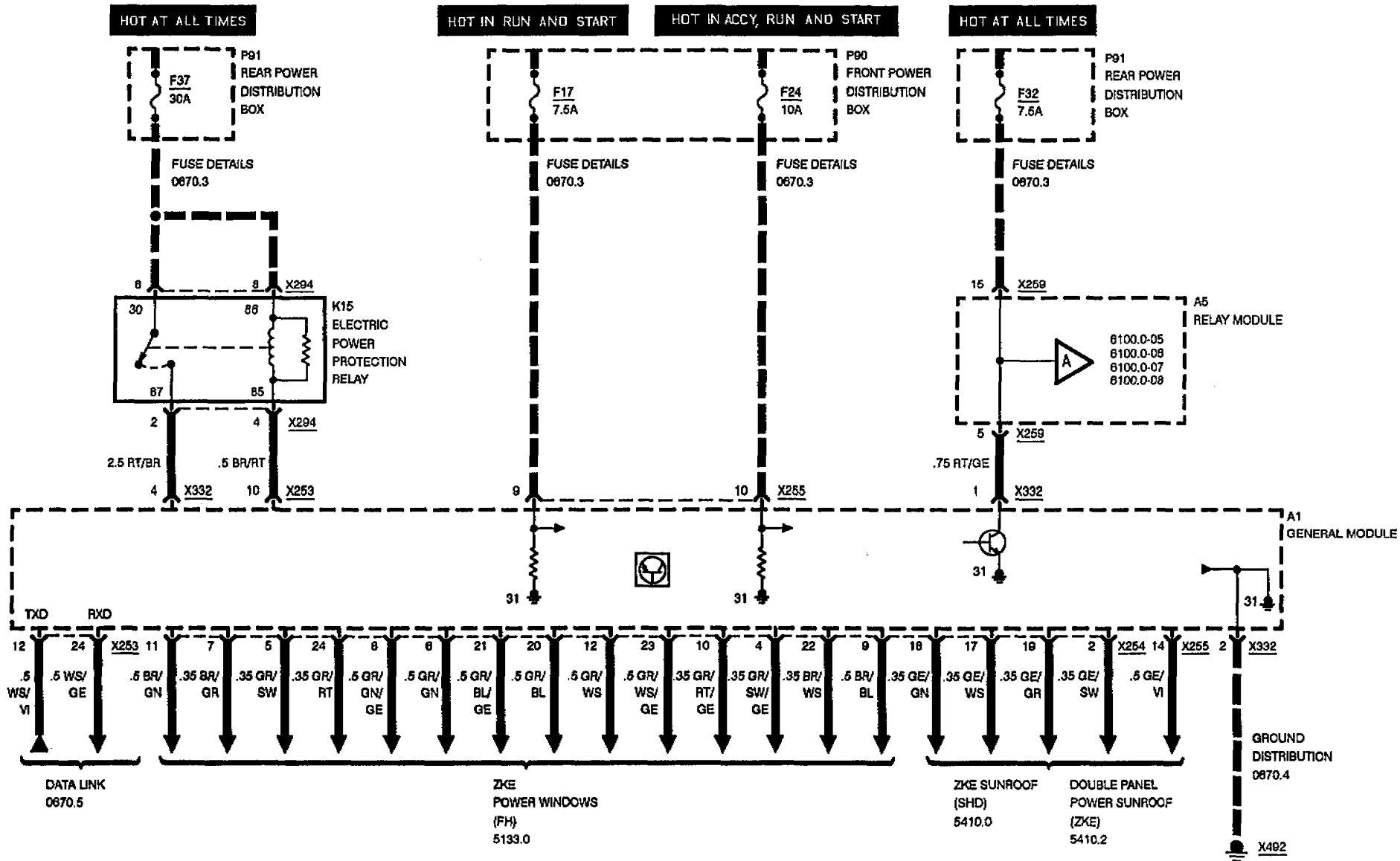
BMW  
**5**

6100.0



# CENTRAL BODY ELECTRONICS (ZKE)

## GENERAL MODULE



09/93

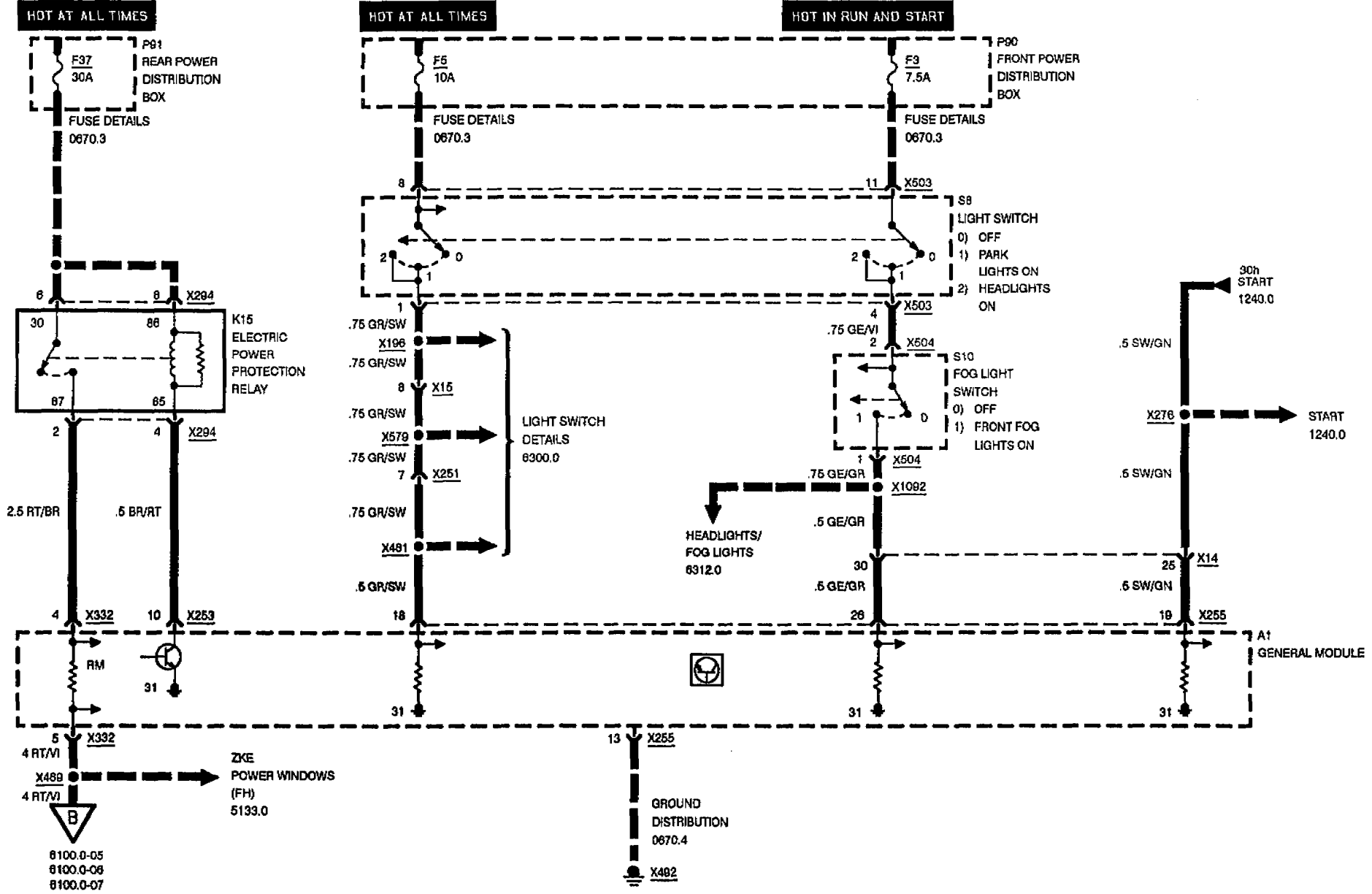
6100.0-00

1994



# CENTRAL BODY ELECTRONICS (ZKE)

## GENERAL MODULE

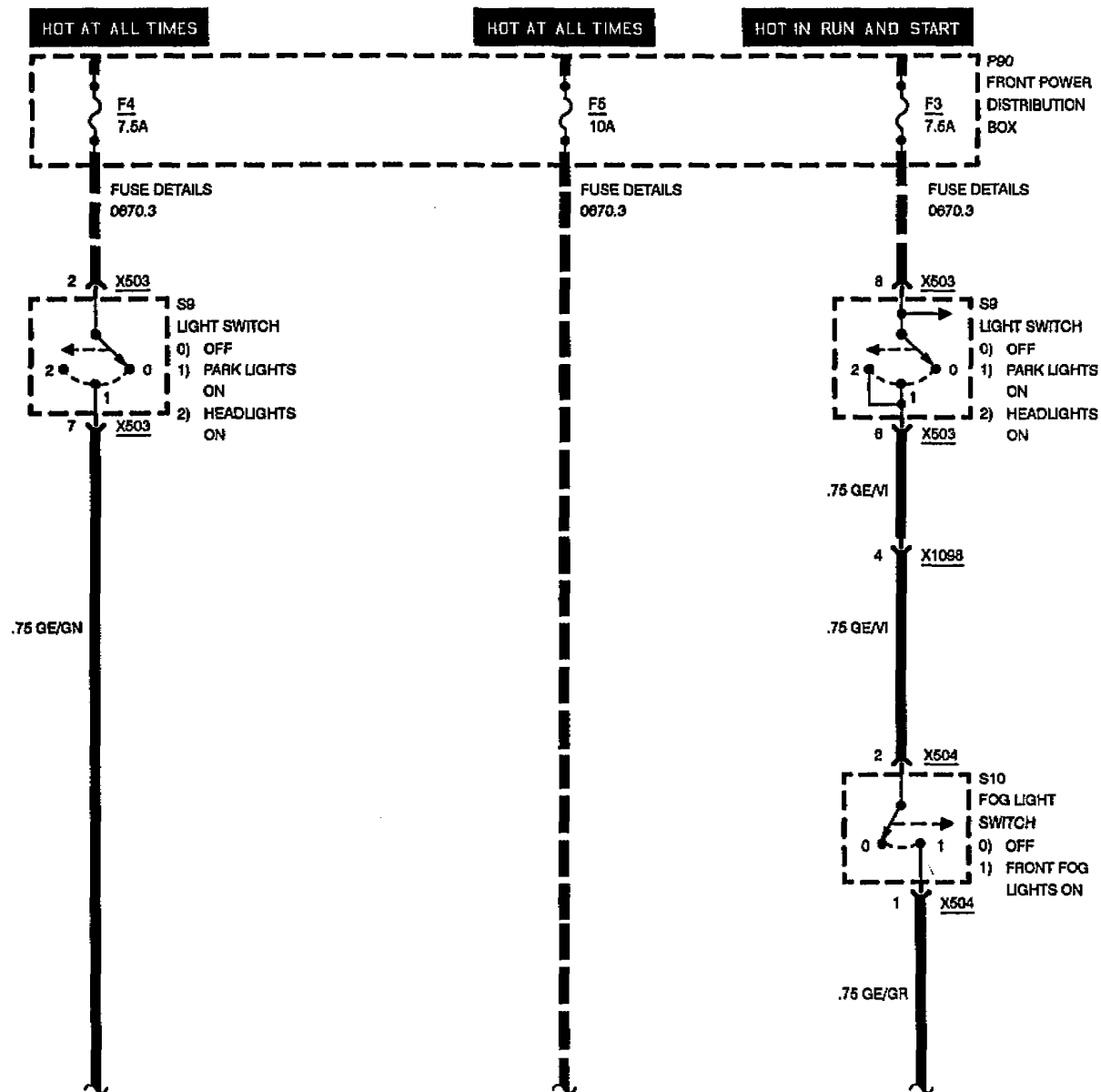


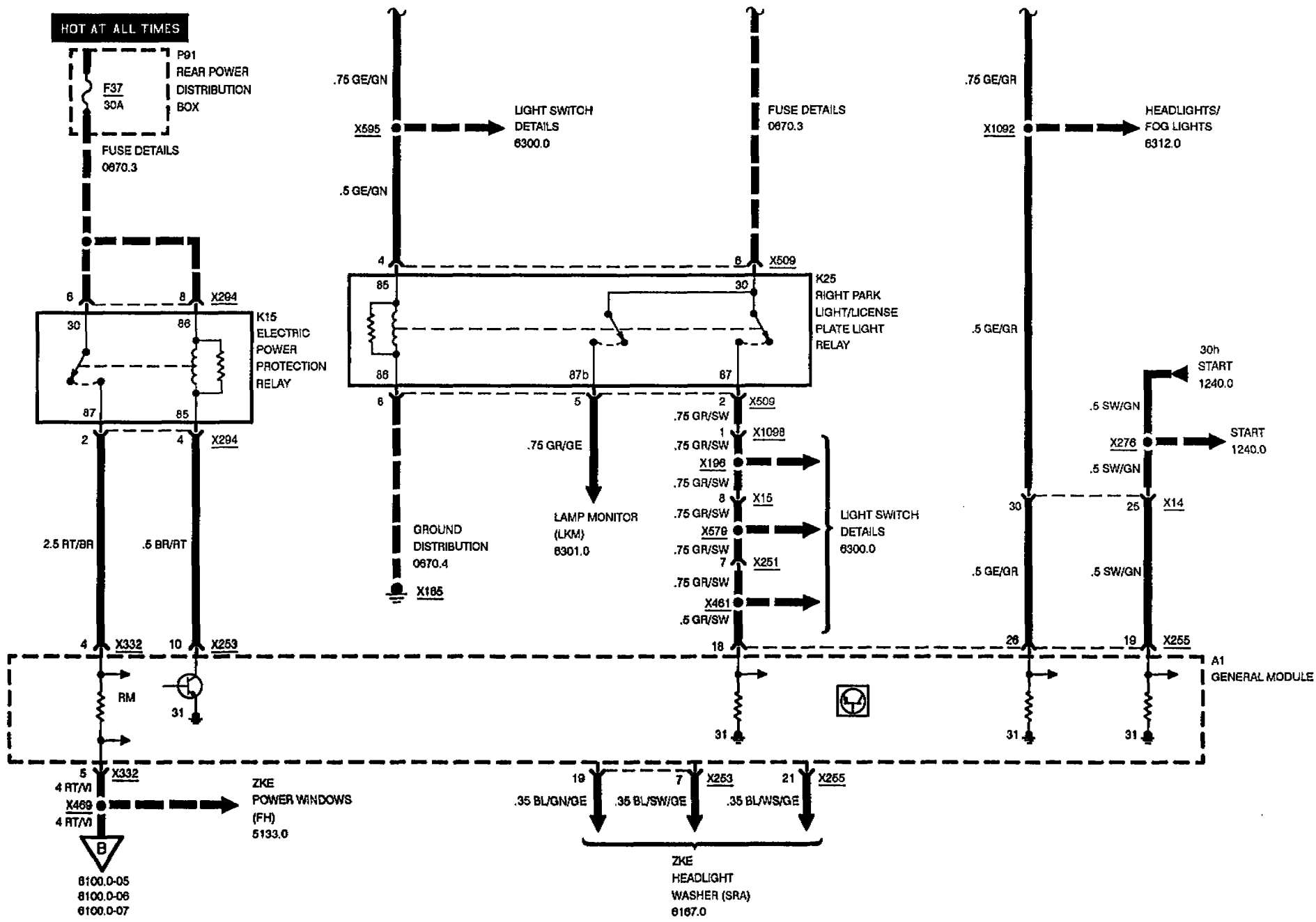


# CENTRAL BODY ELECTRONICS (ZKE)



## GENERAL MODULE

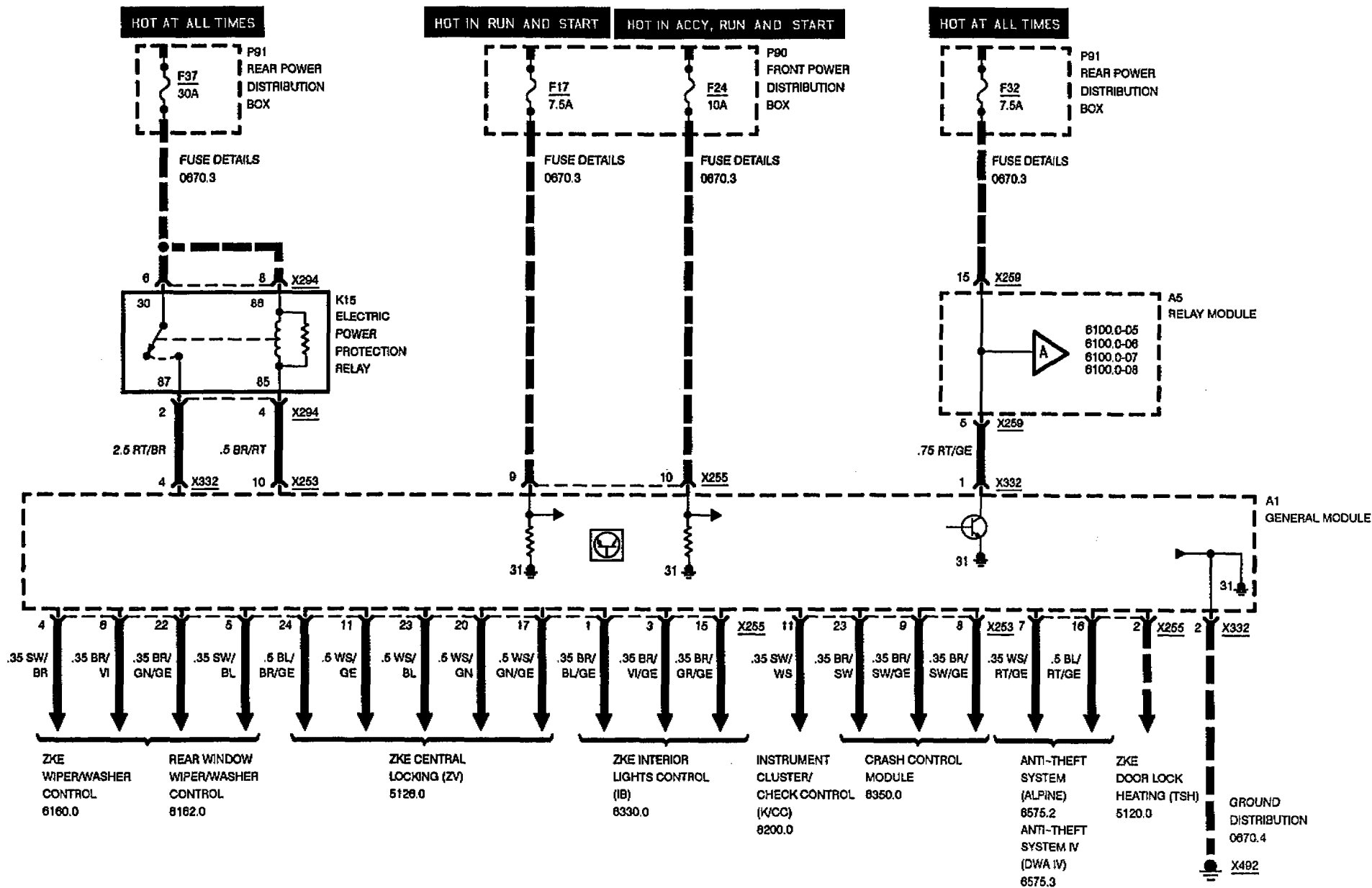






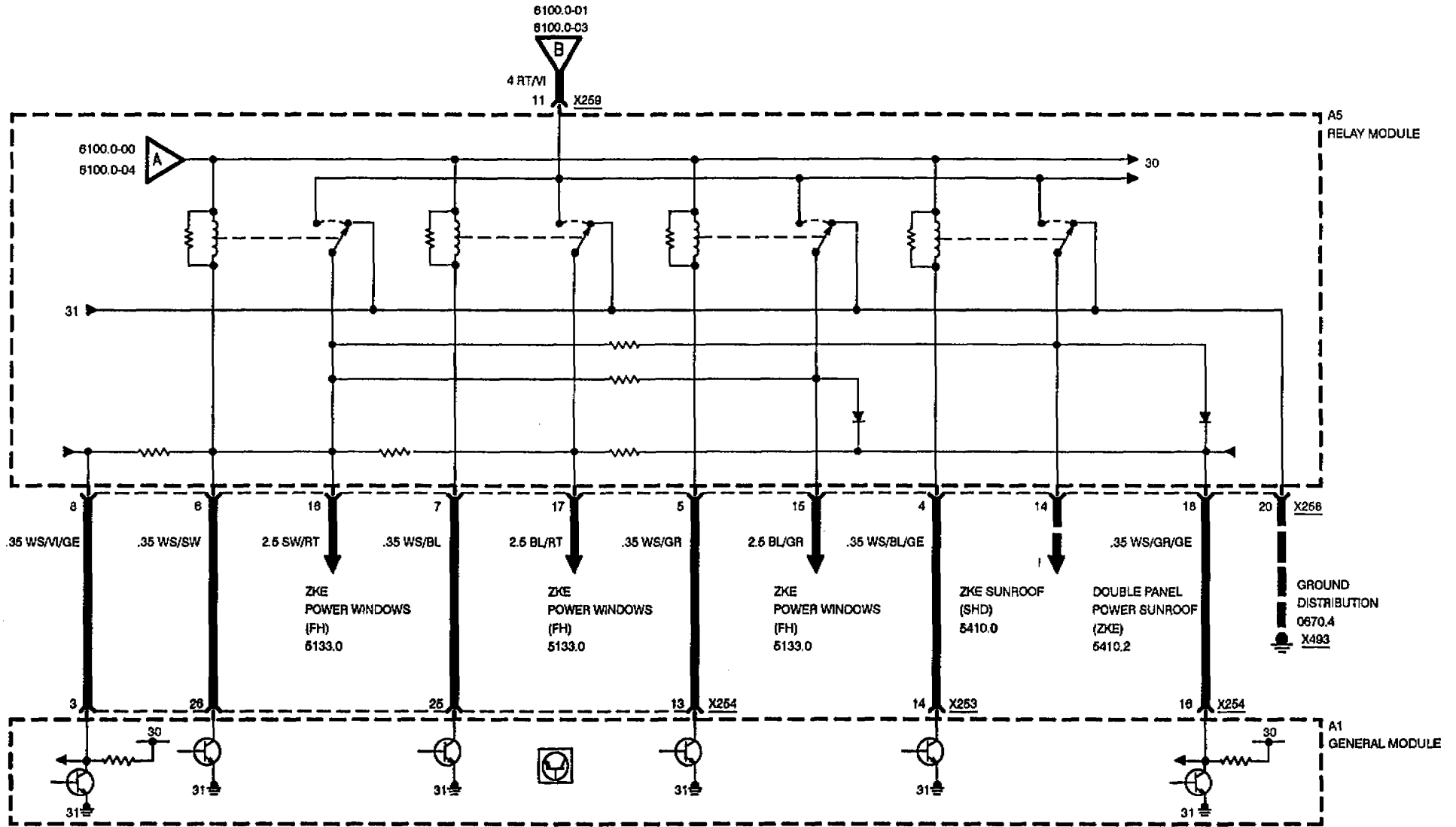
# CENTRAL BODY ELECTRONICS (ZKE)

## GENERAL MODULE



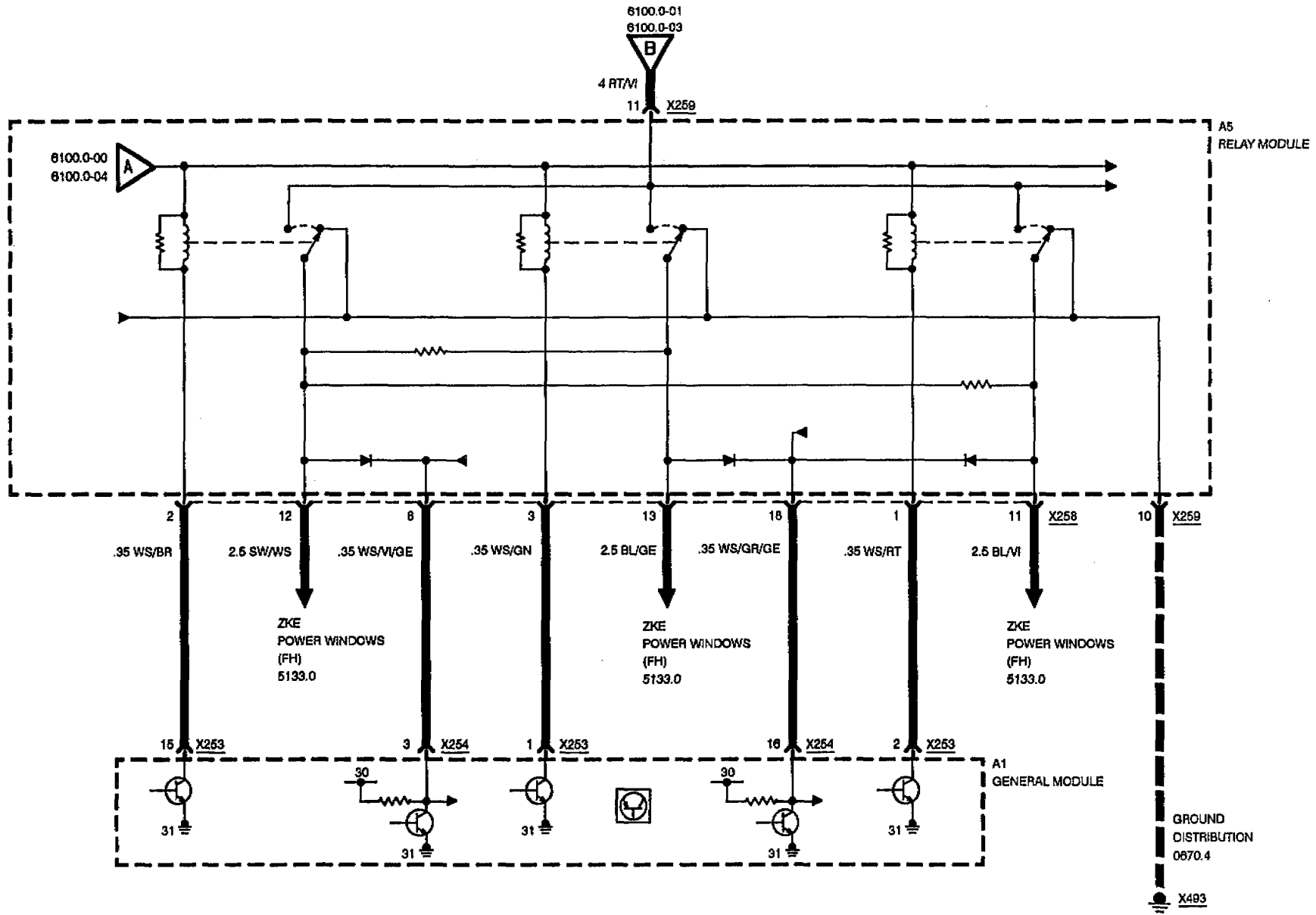


# CENTRAL BODY ELECTRONICS (ZKE) RELAY MODULE





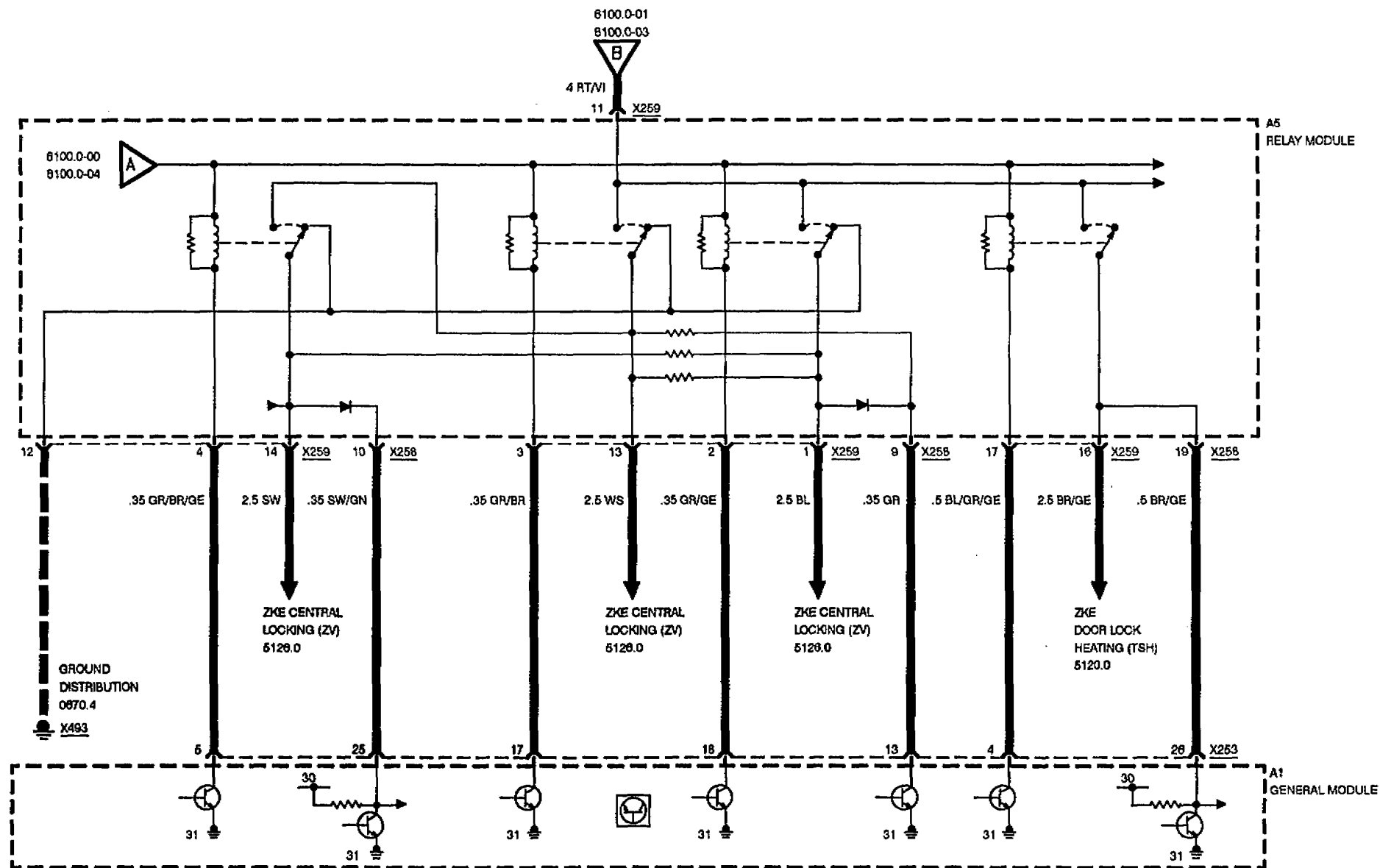
# CENTRAL BODY ELECTRONICS (ZKE) RELAY MODULE







# CENTRAL BODY ELECTRONICS (ZKE) RELAY MODULE



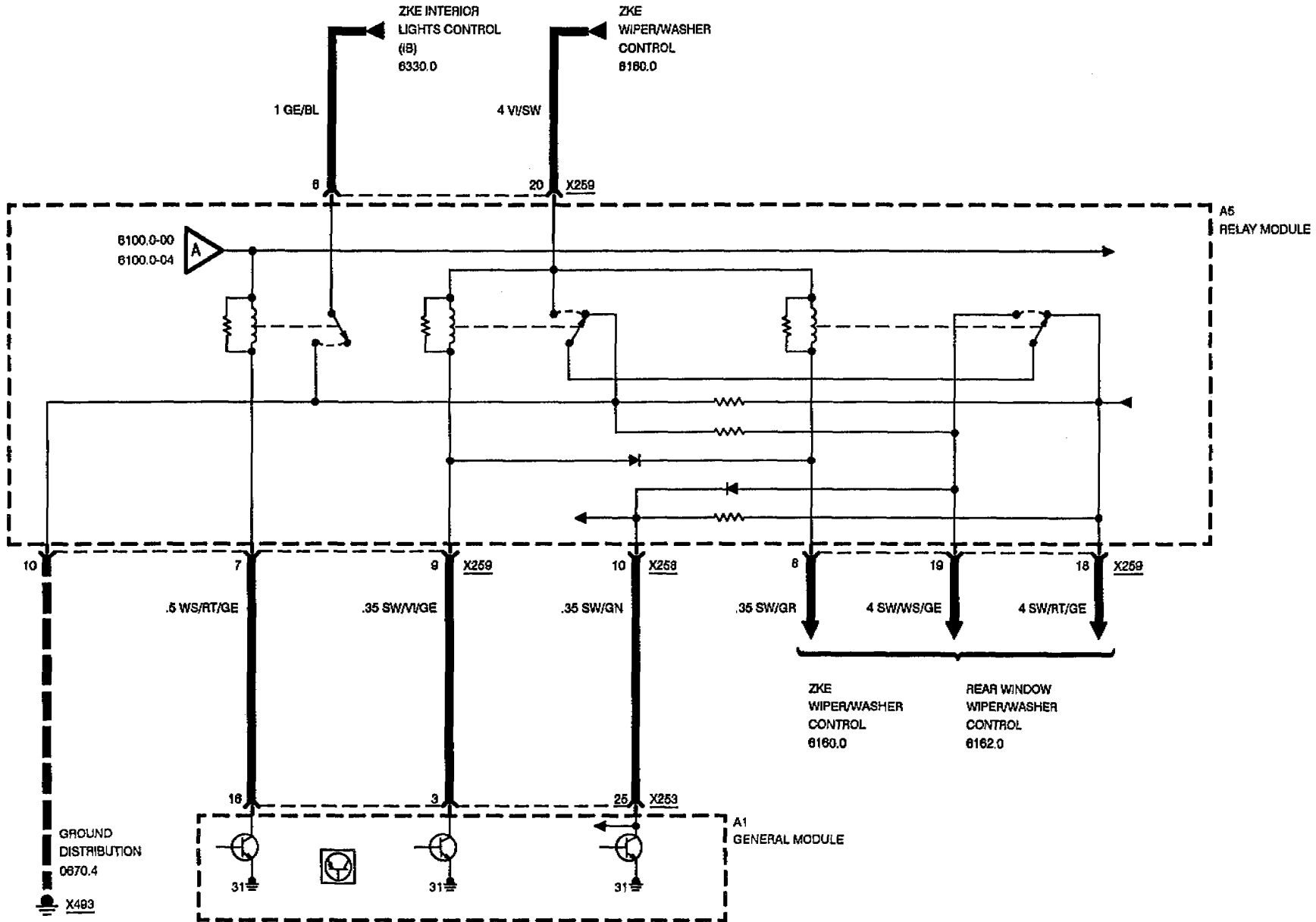
09/93

6100.0-07

1994

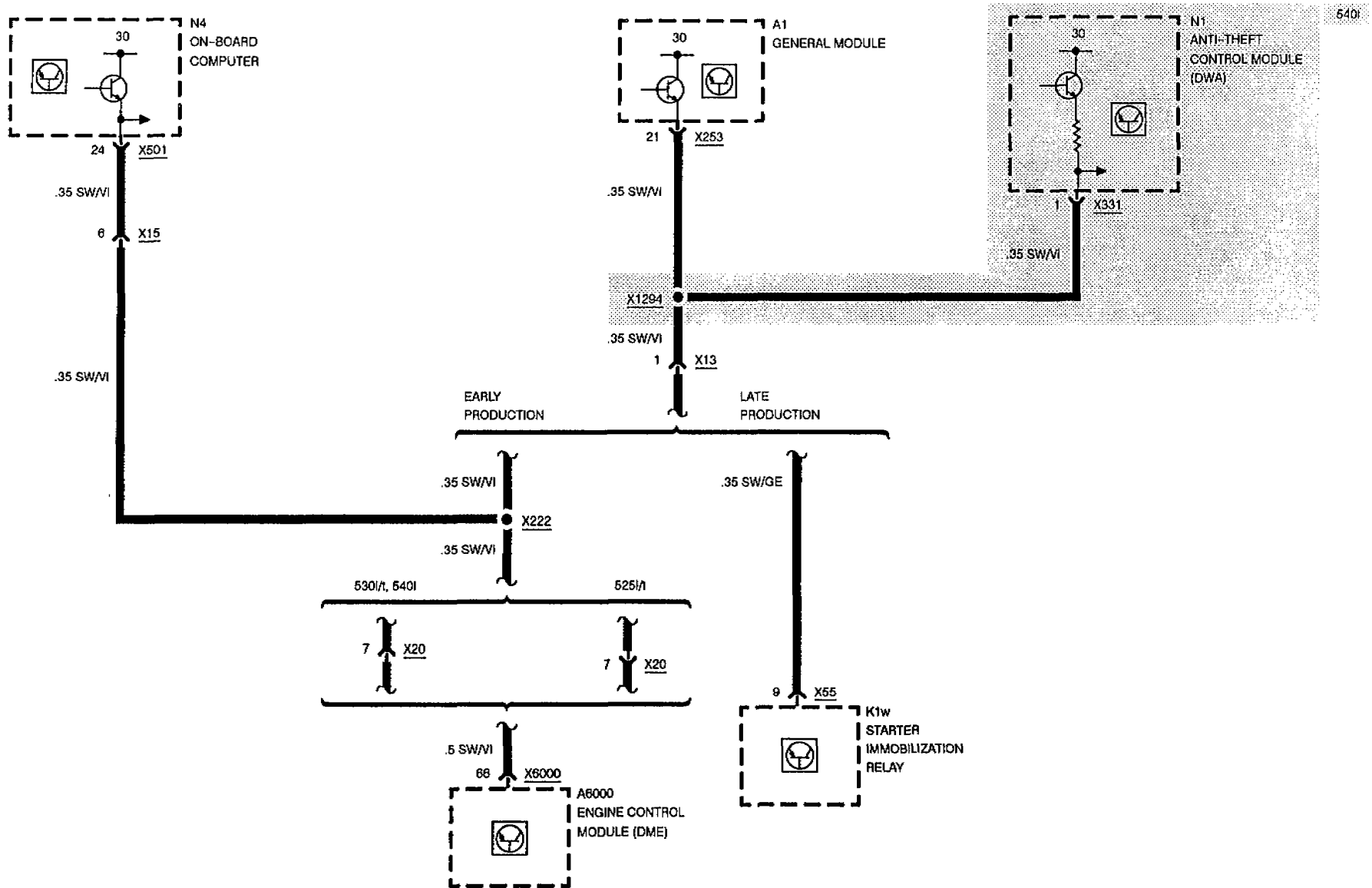


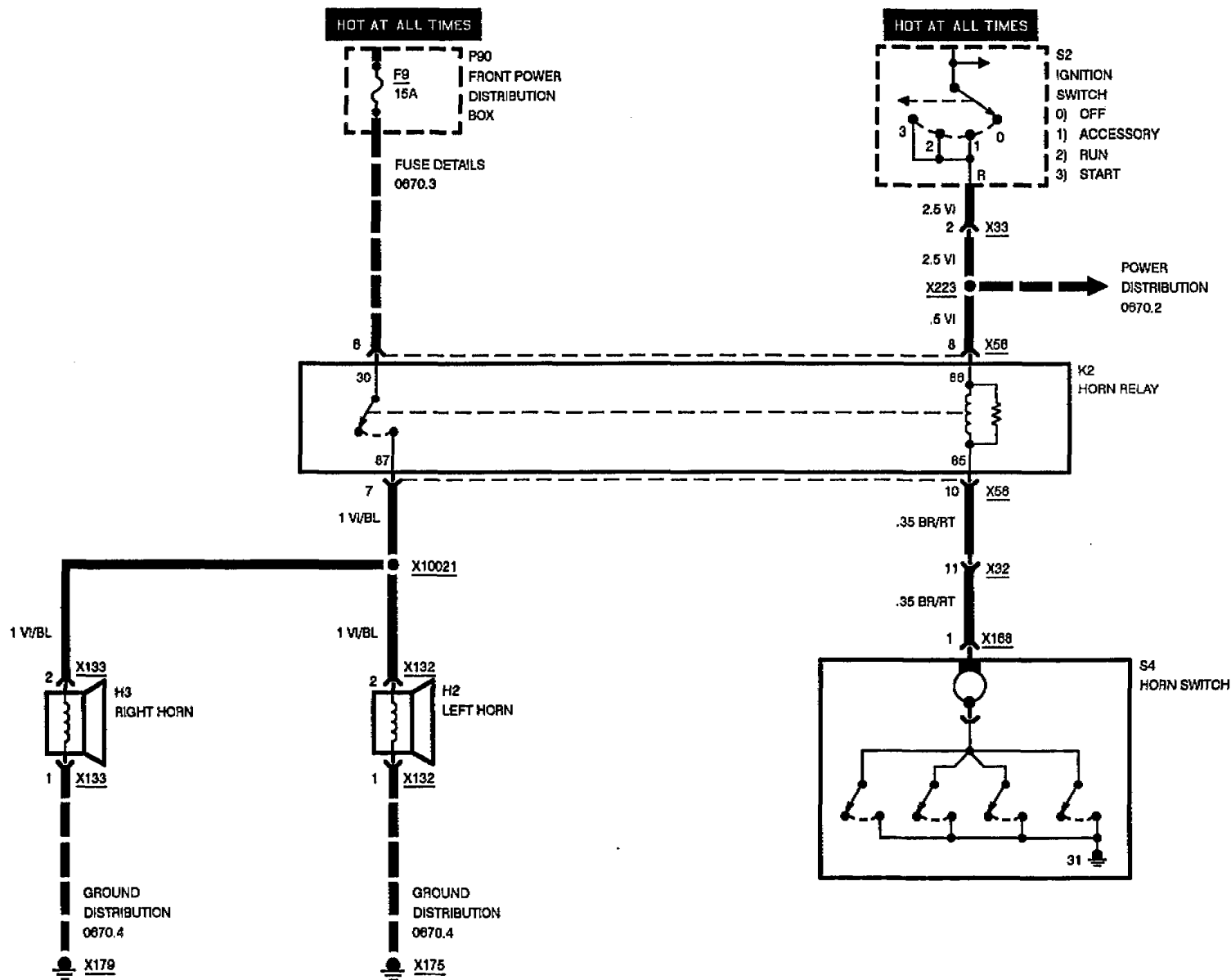
# CENTRAL BODY ELECTRONICS (ZKE) RELAY MODULE





# CENTRAL BODY ELECTRONICS (ZKE) DRIVE-AWAY PROTECTION



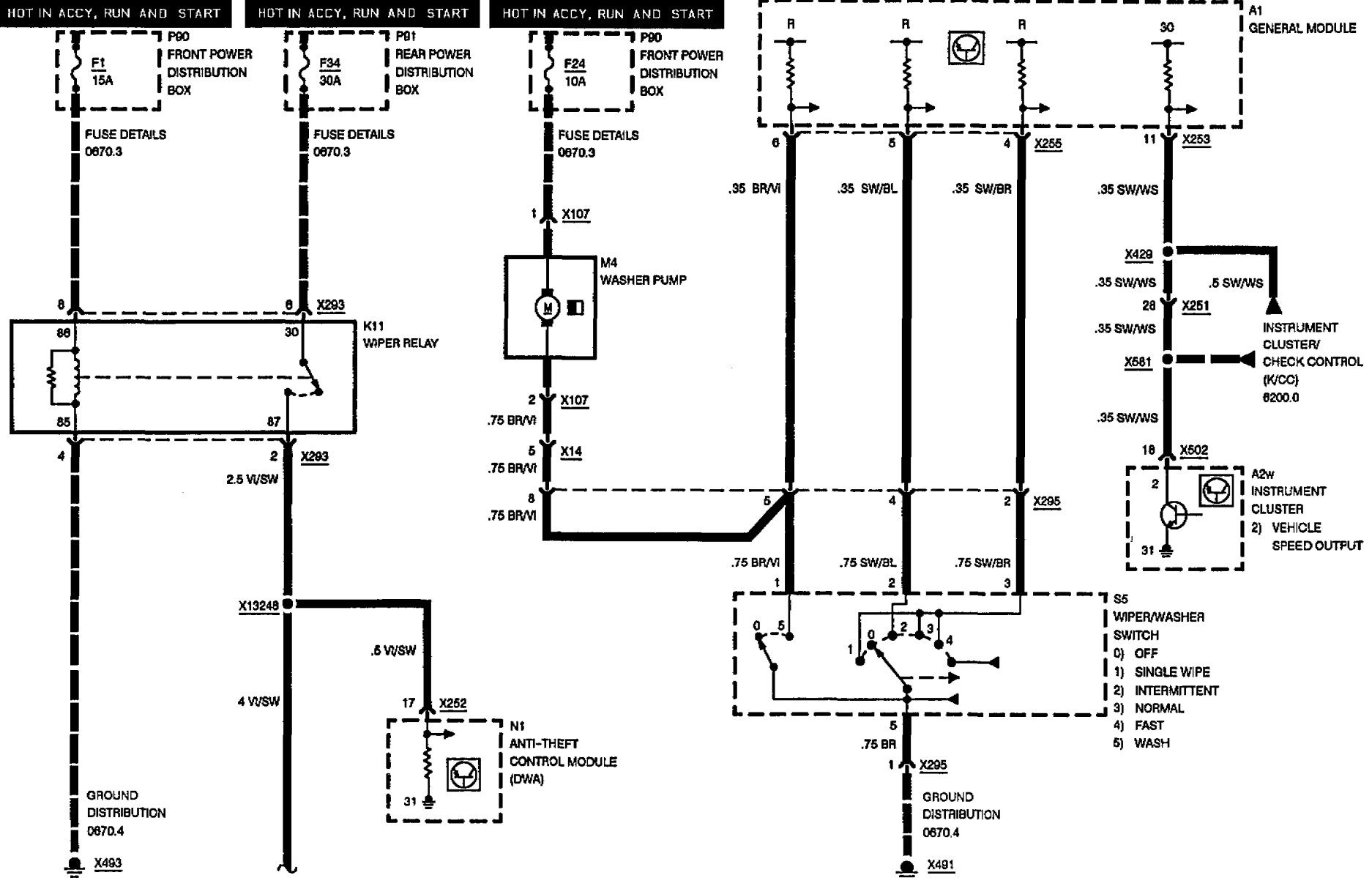


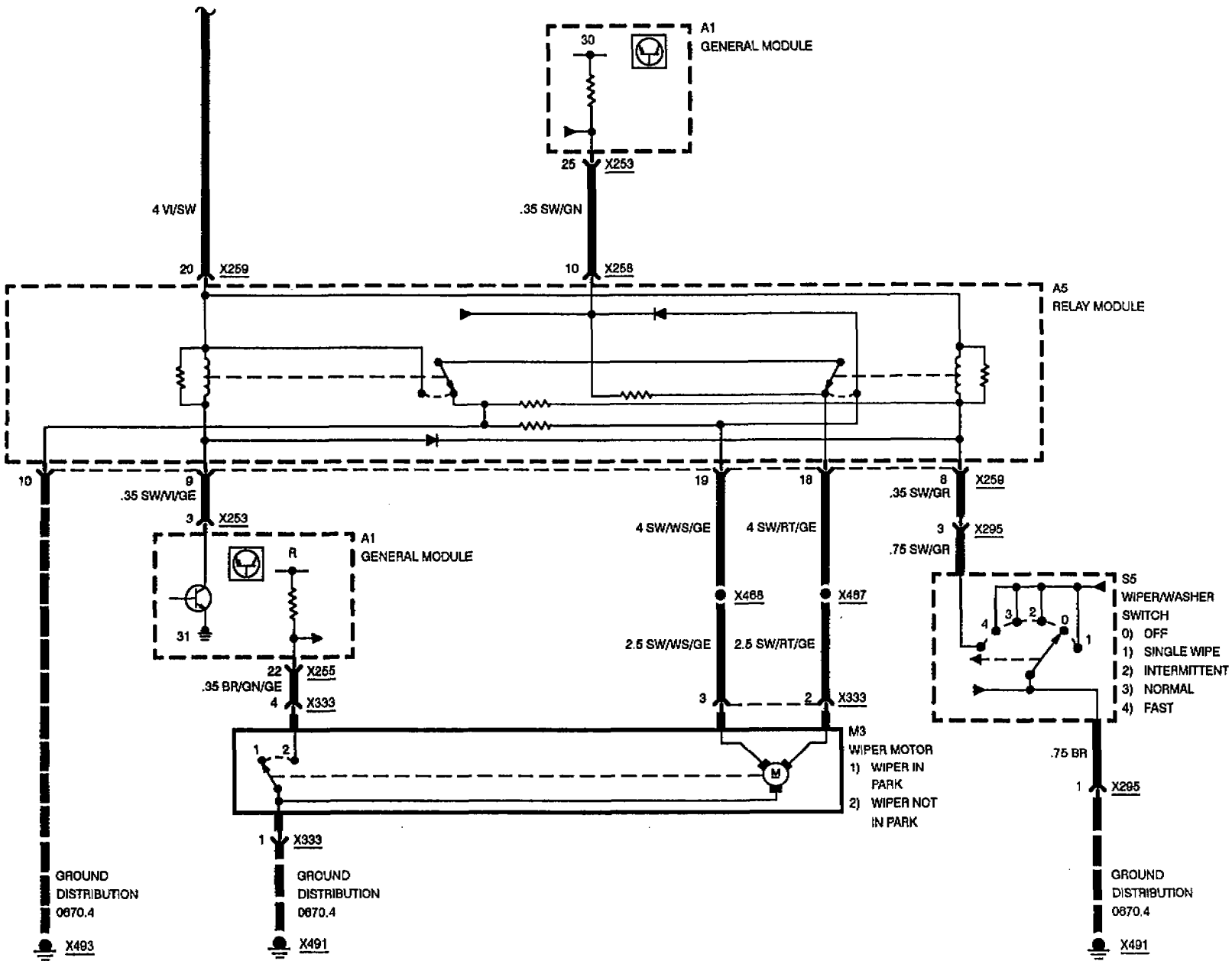


6160.0

# ZKE WIPER/WASHER CONTROL

## INPUT DETAILS





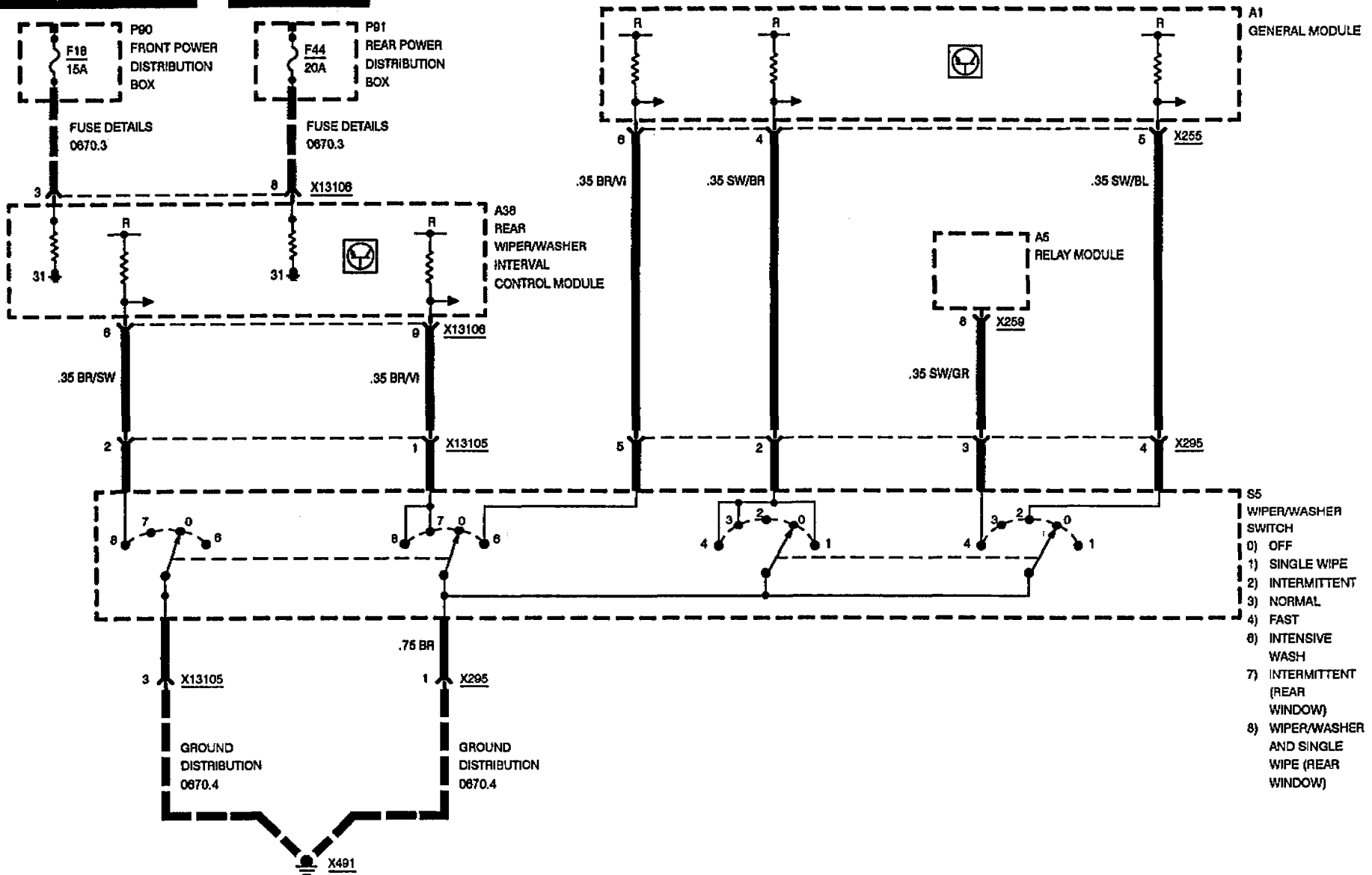


# REAR WINDOW WIPER/WASHER CONTROL

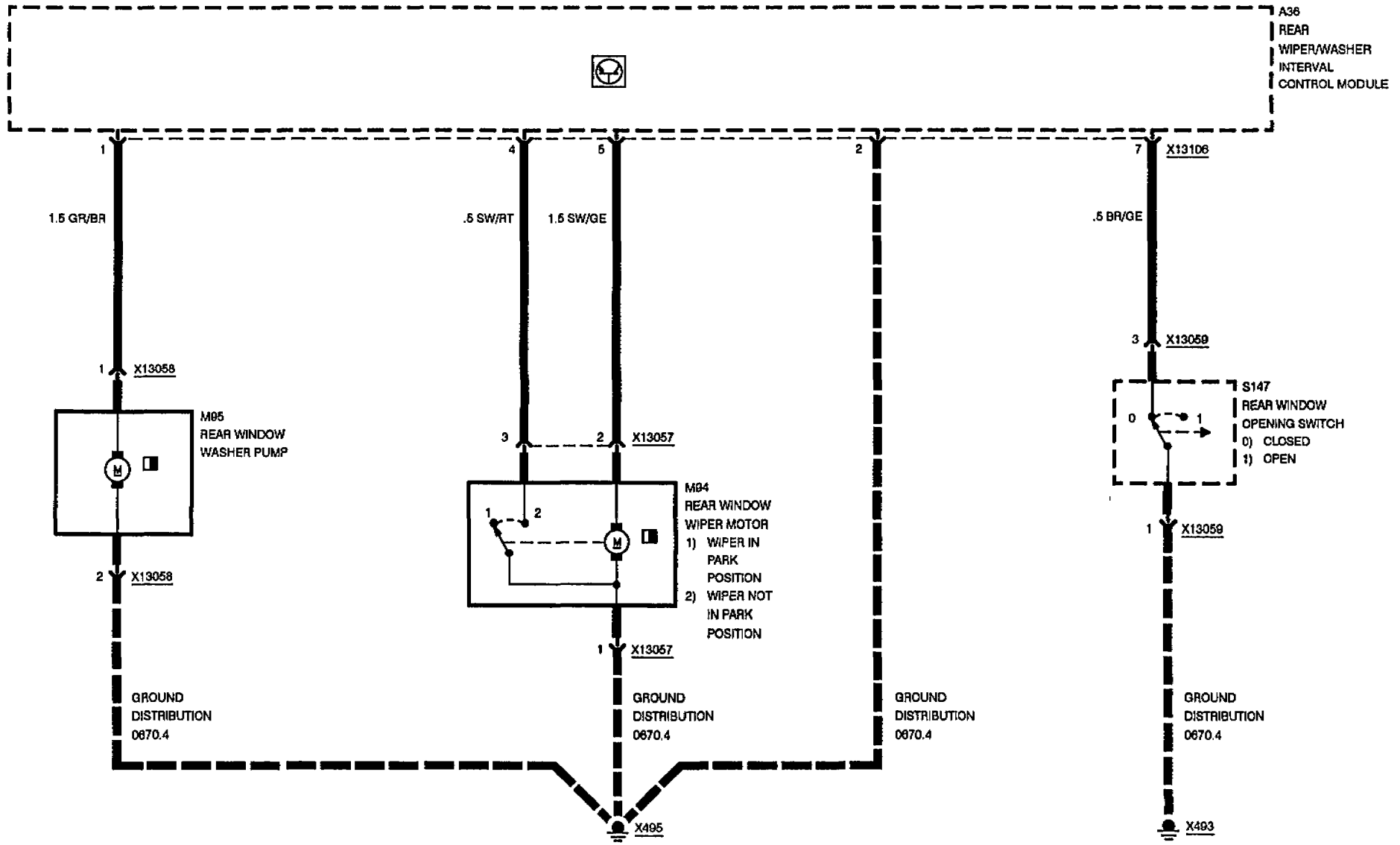
525it/530it

HOT IN ACCY, RUN AND START

HOT AT ALL TIMES





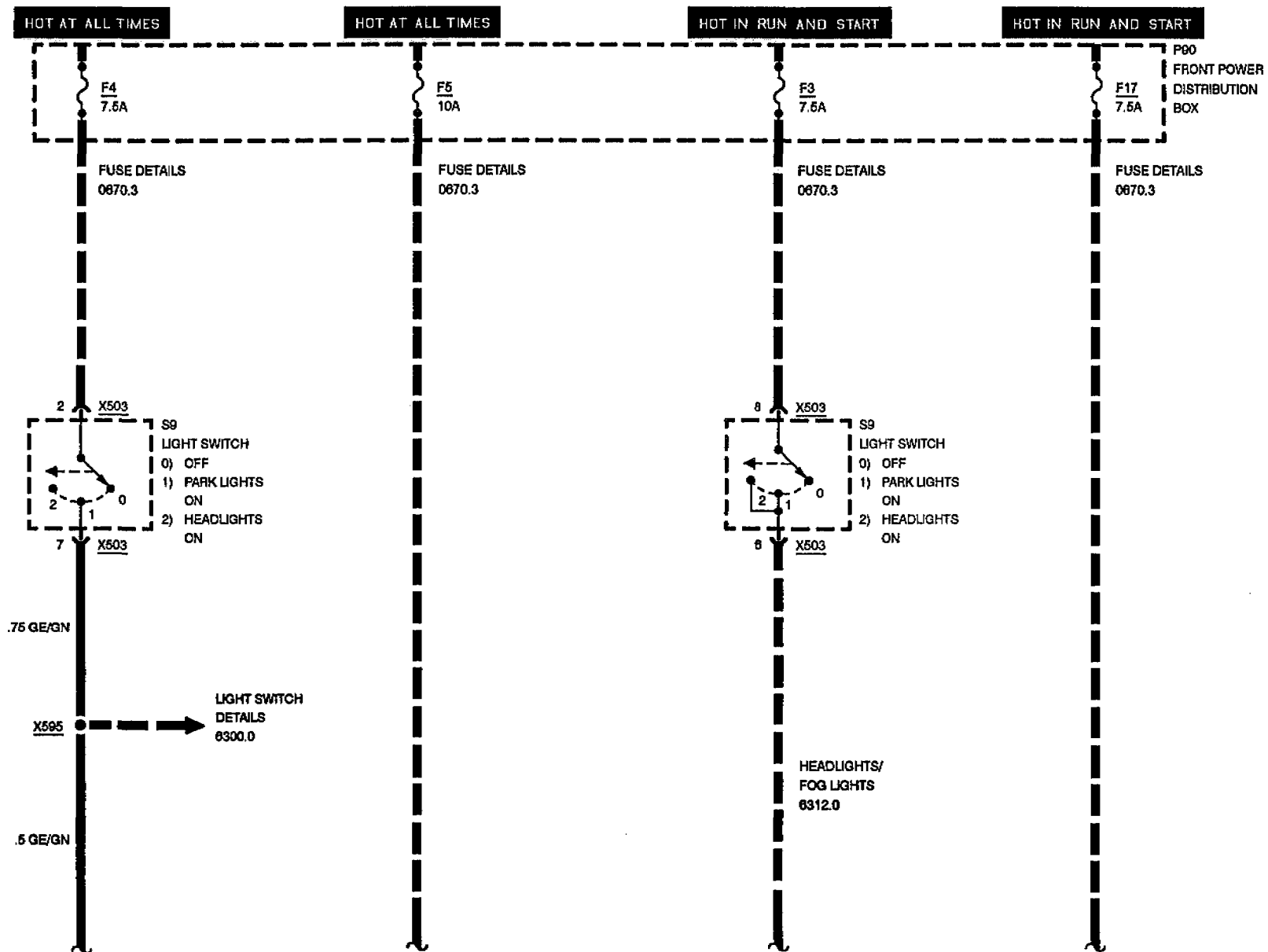


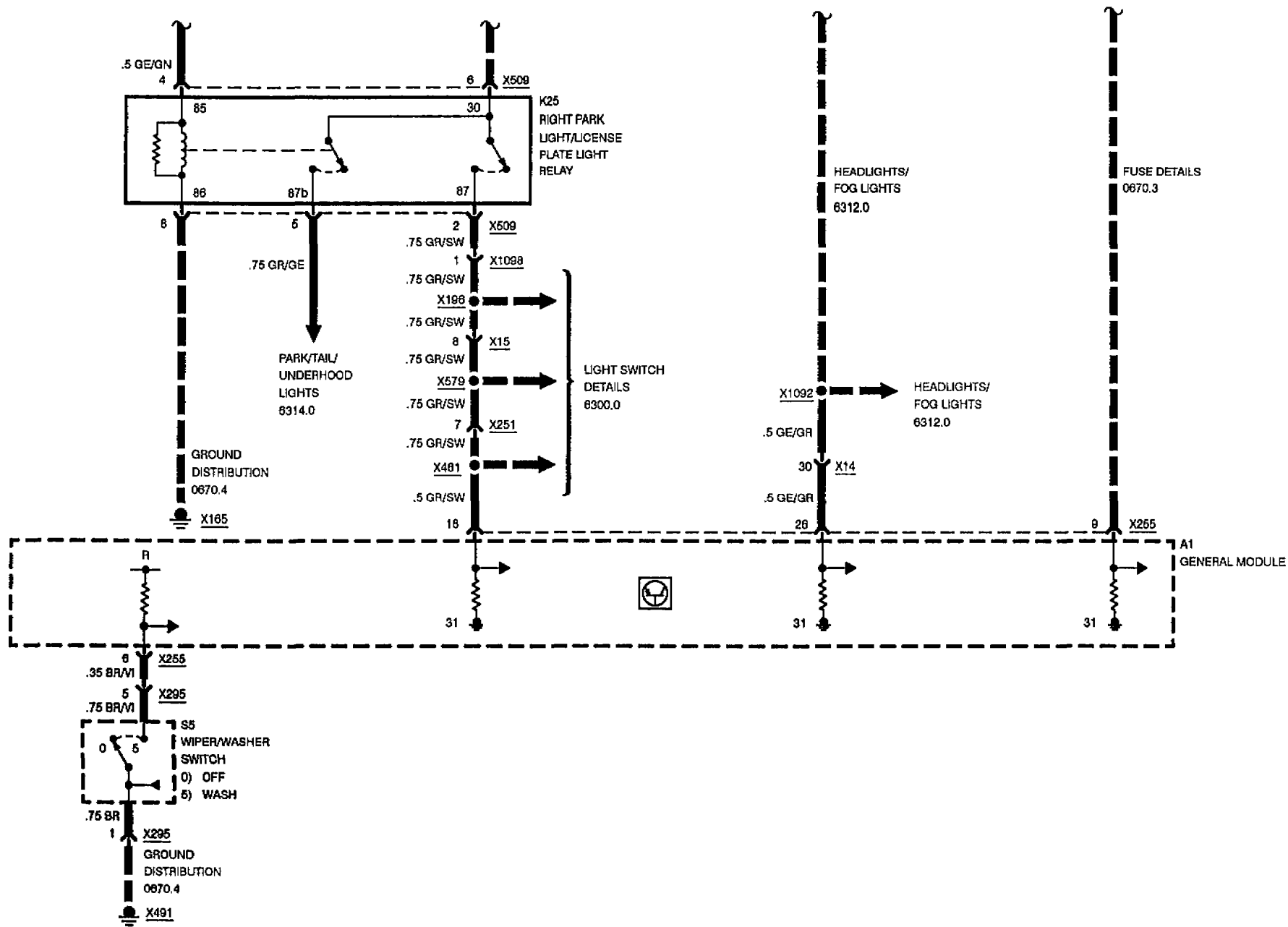


# ZKE HEADLIGHT WASHER (SRA)



## INPUT DETAILS





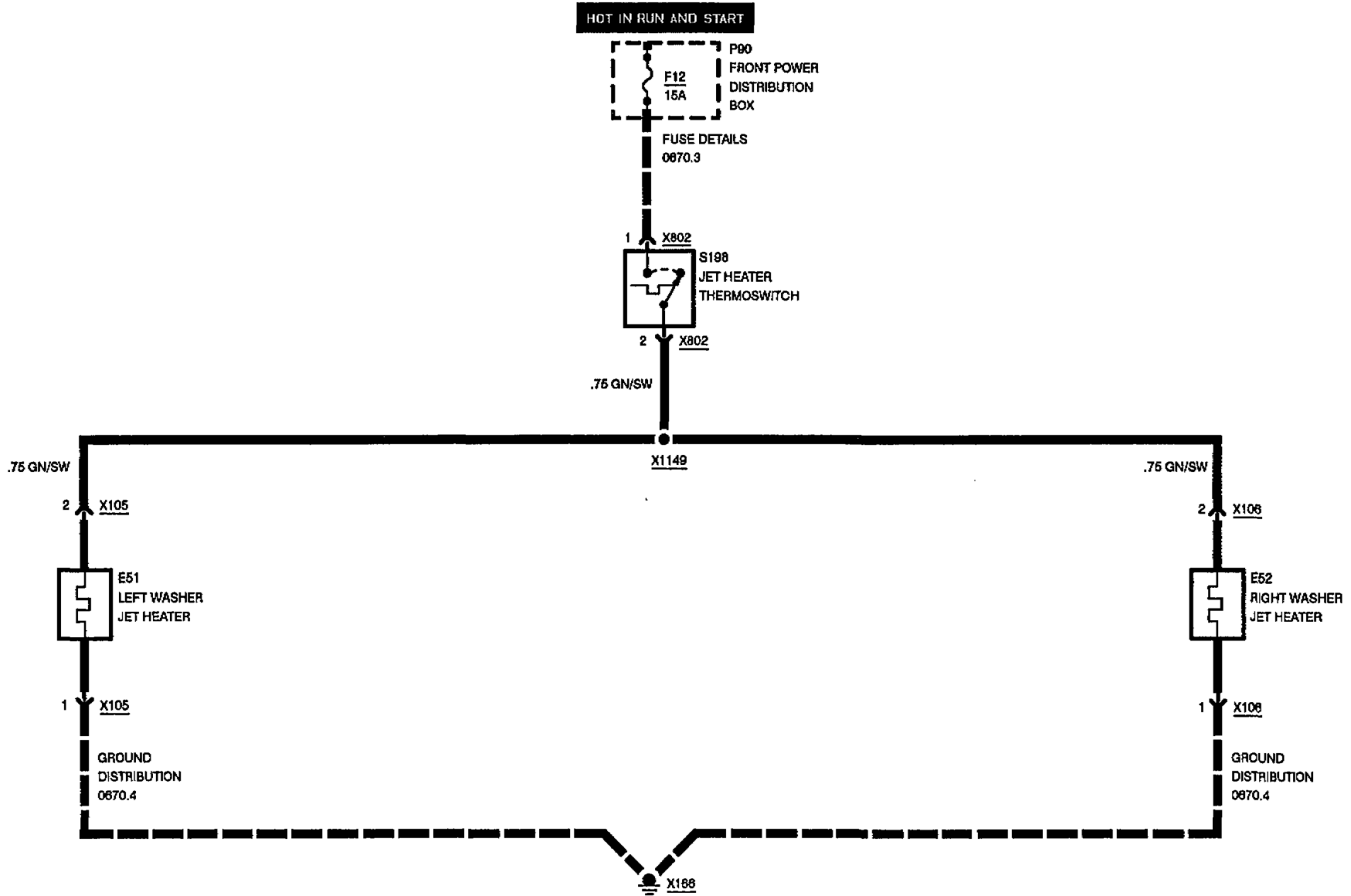


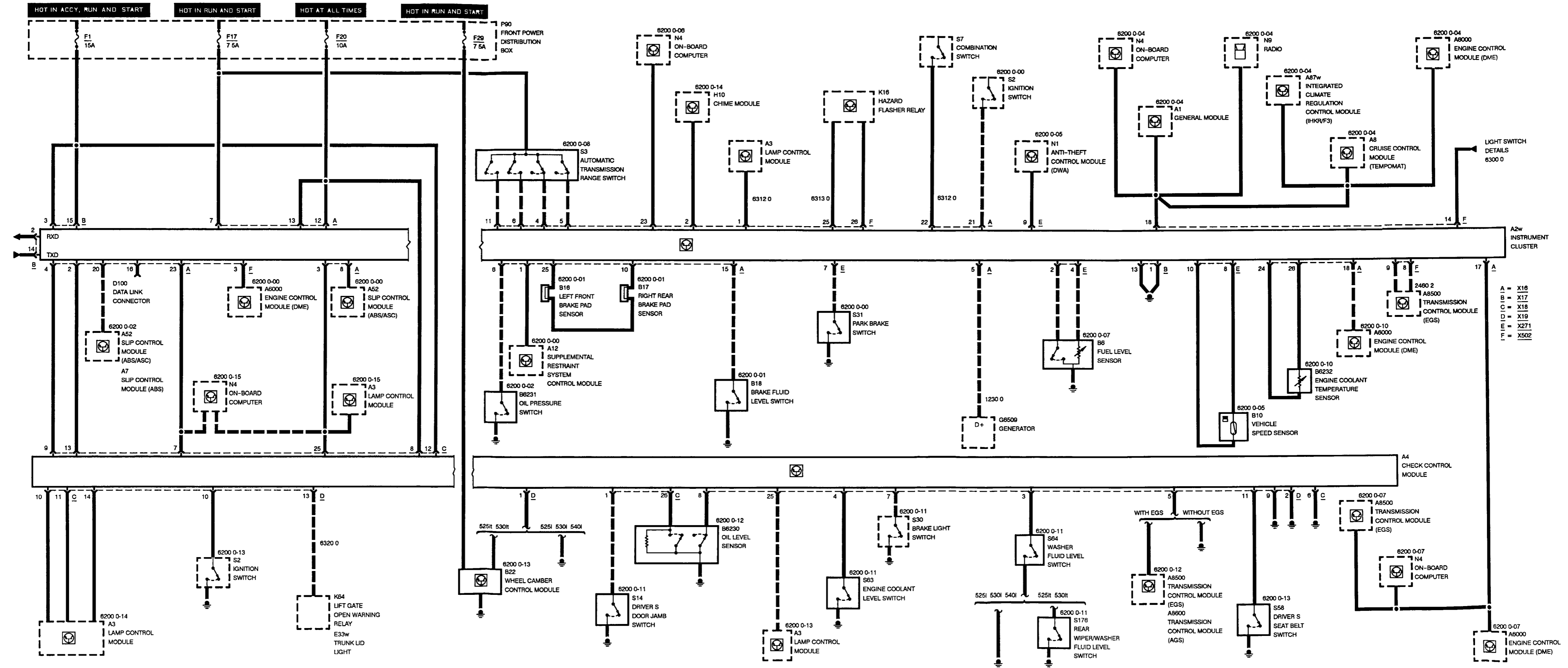
BMW  
5

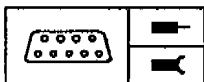
6169.0



# WINDSHIELD WASHER JET HEATERS







## Pin Assignments

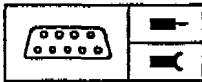
A=X16	26 Pins, beige
B=X17	24 Pins, brown
C=X18	26 Pins, blue
D=X19	26 Pins, green
E=X271	12 Pins, grey
F=X502	26 Pins, white

### X16

Pin	Type	Description/Function	Connect
1	A	Airbag warning lamp (SRS) control	Supplemental restraint system control module
2	E	Data line	Check control module
3	A	Data line	Check control module, lamp control module, on-board computer and radio
4	E	Data line	Check control module
5	E	Charge indicator control	Generator
6	E	Oil pressure warning lamp control	Oil pressure switch
7	E	Terminal 15 voltage supply	Front power distribution box, fuse 17
8	E	ASC indicator control	Slip control module (ABS/ASC)
9		Not used	
10	M	Ground, brake pad signal	Brake pad sensors
11		Not used	
12	E	Terminal 30 voltage supply	Front power distribution box, fuse 20
13	E	Terminal 30 voltage supply	Front power distribution box, fuse 20
14		Not used	
15	E	Brake fluid warning lamp control	Brake fluid level switch
16	A	SIA reset/service interval indicator reset	Data link connector
17	E	ti signal for fuel economy	Engine control module (DME)
18	E	TD signal for tachometer	Engine control module (DME)
19		Not used	
20	E	Antilock brake system warning lamp (ABS) control	ABS electronic control module or slip control module (ABS/ASC)

E = Input, A = Output, M = Ground





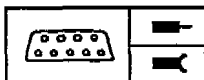
## Pin Assignments

Pin	Type	Description/Function	Connect
21	E	Airbag warning lamp (SRS) control	Ignition switch, terminal R
22	E	High beam indicator control	Combination switch
23	A	Data line	Check control module, on-board computer and radio
24	M	Engine coolant temperature sensor ground	Engine coolant temperature sensor
25	E	Brake pad wear warning lamp control	Brake pad sensors
26	E	Temperature gauge signal	Engine coolant temperature sensor

### X17

Pin	Type	Description/Function	Connect
1	M	Ground	Ground point
2	E	RxD diagnostic data link	Data link connector
3	E	Terminal R voltage supply	Front power distribution box, fuse 1
4		Cluster programming	NV-RAM
5		Cluster programming	NV-RAM
6		Cluster programming	NV-RAM
7		Cluster programming	NV-RAM
8		Cluster programming	NV-RAM
9		Cluster programming	NV-RAM
10		Cluster programming	NV-RAM
11		Cluster programming	NV-RAM
12		Cluster programming	NV-RAM
13	M	Ground	Ground point
14	E/A	TxD diagnostic data link	Data link connector
15	E	Terminal R voltage supply	Front power distribution box, fuse 1
16		Cluster programming	NV-RAM
17		Cluster programming	NV-RAM
18		Cluster programming	NV-RAM
19		Cluster programming	NV-RAM
20		Cluster programming	NV-RAM
21		Cluster programming	NV-RAM

E = Input, A = Output, M = Ground



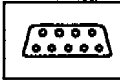
## Pin Assignments

Pin	Type	Description/Function	Connect
22		Cluster programming	NV-RAM
23		Cluster programming	NV-RAM
24		Cluster programming	NV-RAM

### X18

Pin	Type	Description/Function	Connect
1	E	Door open signal	Door jamp switch, driver's
2		Not used	
3		Not used	
4		Not used	
5		Not used	
6	M	Ground, control module	Ground point
7		Data line	Instrument cluster, on-board computer and radio
8	E	Terminal 30 voltage supply	Front power distribution box, fuse 20
9	A	Data line	Instrument cluster
10	E	Data line	Lamp control module
11	E	Data line	Lamp control module
12	E	Terminal R voltage supply	Front power distribution box, fuse 1
13	A	Data line	Instrument cluster
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	

E = Input, A = Output, M = Ground



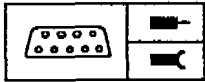
## Pin Assignments

Pin	Type	Description/Function	Connect
25	E	Data line	Instrument cluster, on-board computer, lamp control module and radio
26	E	Oil level signal	Oil level sensor

### X19

Pin	Type	Description/Function	Connect
1	M	Ground (525i, 530i, 540i)	Ground point
	E	Wheel camber signal (525it, 530it)	Wheel camber control module
2	M	Ground, control module	Ground point
3	E	Washer fluid level signal	Washer fluid level switch
4	E	Engine coolant level signal	Engine coolant level switch
5	M	Ground (without EGS)	Ground point
	E	EGS fault signal (with EGS)	Transmission control module (EGS)
6		Not used	
7	E	Brake pedal status	Brake light switch
8	E	Oil level signal	Oil level sensor
9	M	Ground	Ground point
10	E	Ignition switch status	Ignition switch
11	E	Seat belt status	Seat belt switch, driver's
12		Not used	
13	E	Lift gate open signal (525it, 530it)	Lift gate open switch
14	E	Data line	Lamp control module
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	

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connect
25		Light switch ON signal	Lamp control module
26		Not used	

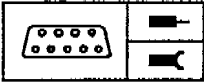
### X271

Pin	Type	Description/Function	Connect
1		Not used	
2	E	Fuel level warning signal	Fuel tank sensor
3		Not used	
4	E	Fuel level signal	Fuel tank sensor
5		Not used	
6		Not used	
7	E	Park brake warning lamp control	Park brake switch
8	E	Vehicle speed input (+)	Vehicle speed sensor
9	A	Impulse path	Anti-theft control module (DWA)
10	E	Vehicle speed input (-)	Vehicle speed sensor
11		Not used	
12		Not used	

### X502

Pin	Type	Description/Function	Connect
1	E	Fog light indicator control	Lamp control module
2	A	Sound tone signal	Chime module
3	E	"Check engine" indicator control	Engine control module (DME)
4	E	Gear range signal	Automatic transmission range switch (L2)
5	E	Gear range signal	Automatic transmission range switch (L1)
6	E	Gear range signal	Automatic transmission range switch (L3)
7		Not used	
8	E	Transmission mode signal	Transmission control module (EGS)
9	E	Transmission mode signal	Transmission control module (EGS)
10		Not used	

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connect
11	E	Gear range signal	Automatic transmission range switch (L4)
12		Not used	
13		Not used	
14	E	Terminal 58g, instrument illumination power	Dimmer
15		Not used	
16		Not used	
17		Not used	
18	A	Vehicle speed signal	Various control modules
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	A	Check control reset signal	On-board computer
24		Not used	
25	E	Left turn signal indicator control	Hazard flasher relay
26	E	Right turn signal indicator control	Hazard flasher relay

E = Input, A = Output, M = Ground

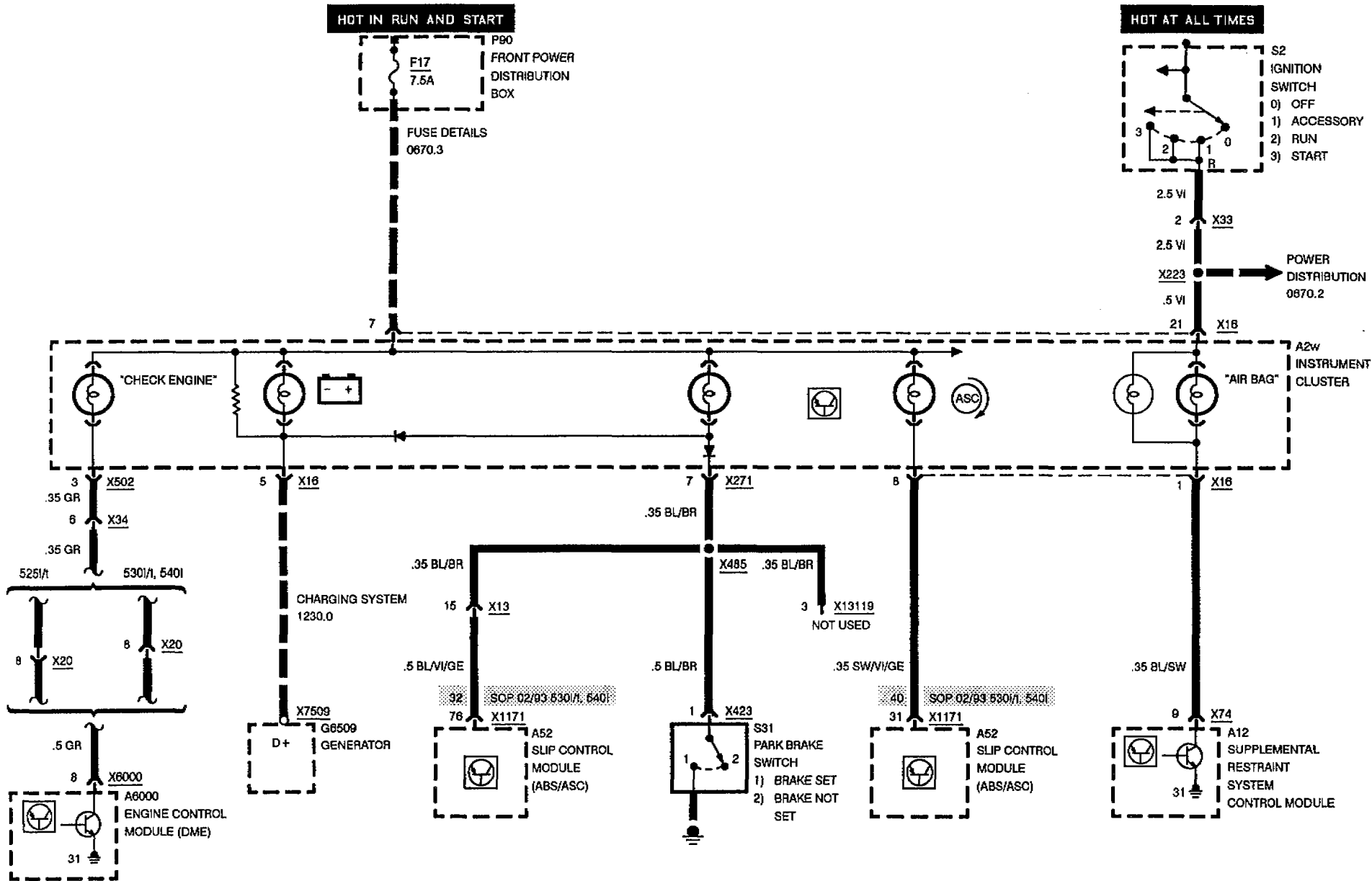
BMW  
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6200.0



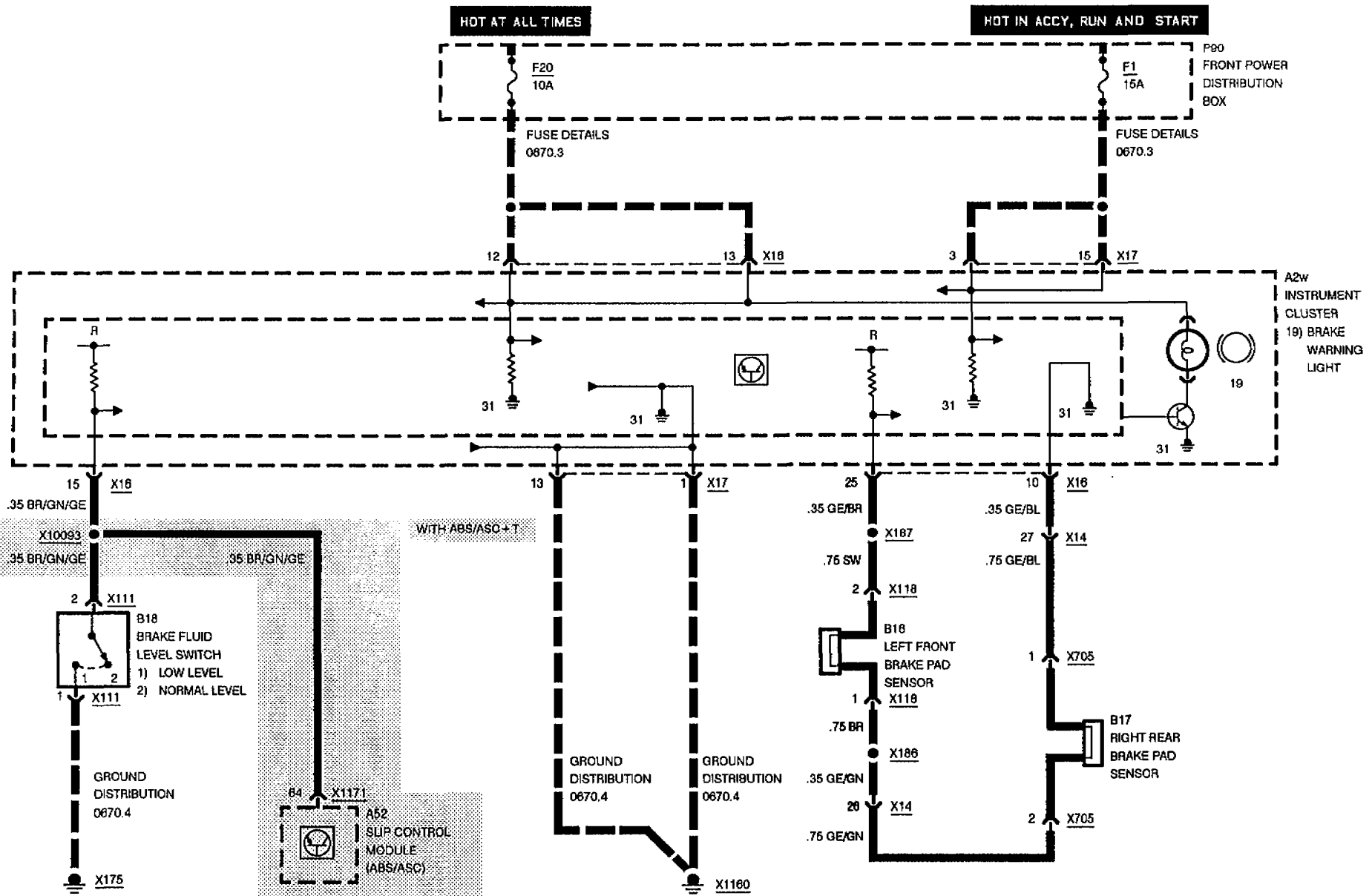
# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

## INDICATORS





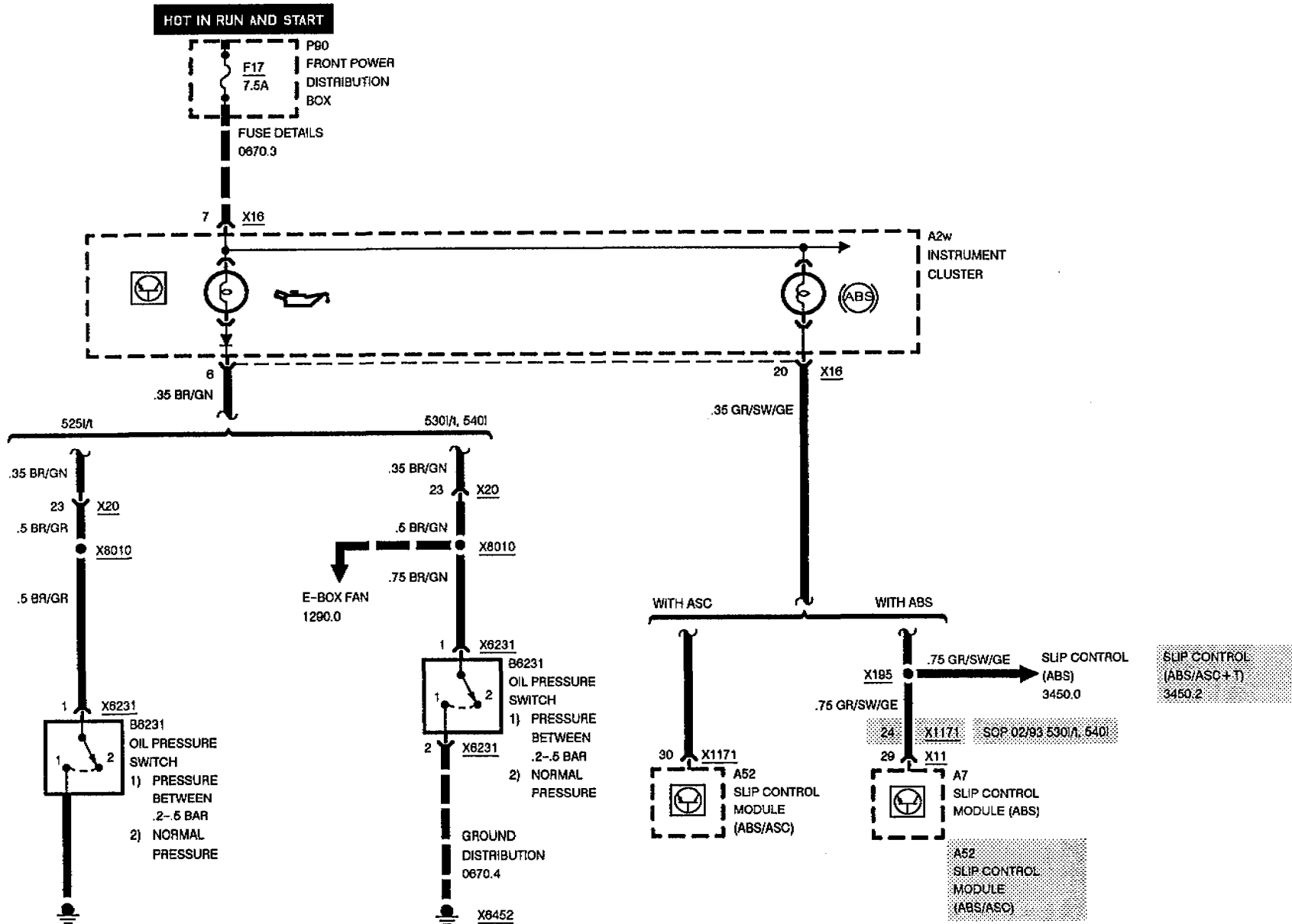
# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC) INDICATORS







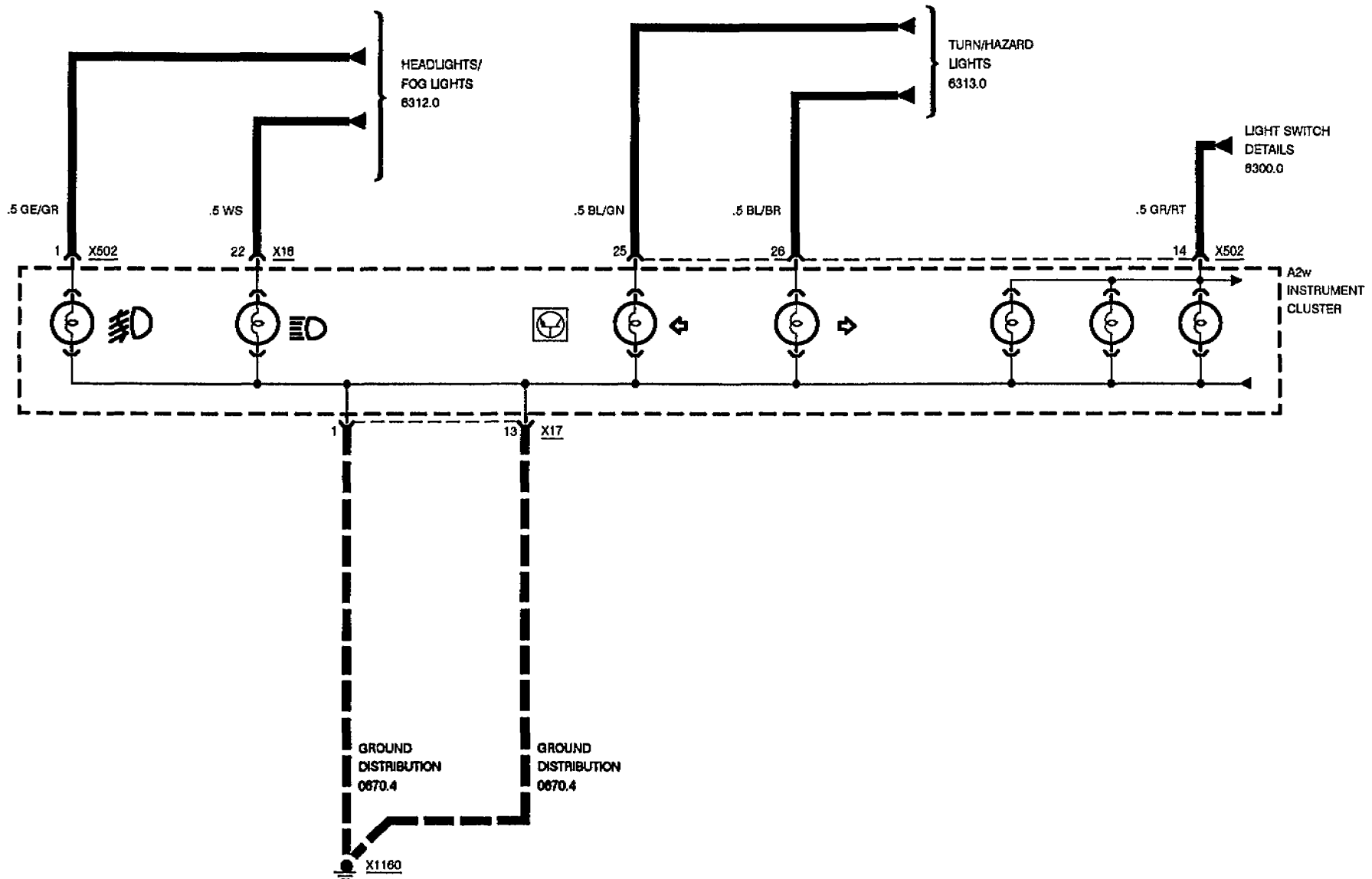
# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC) INDICATORS





# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

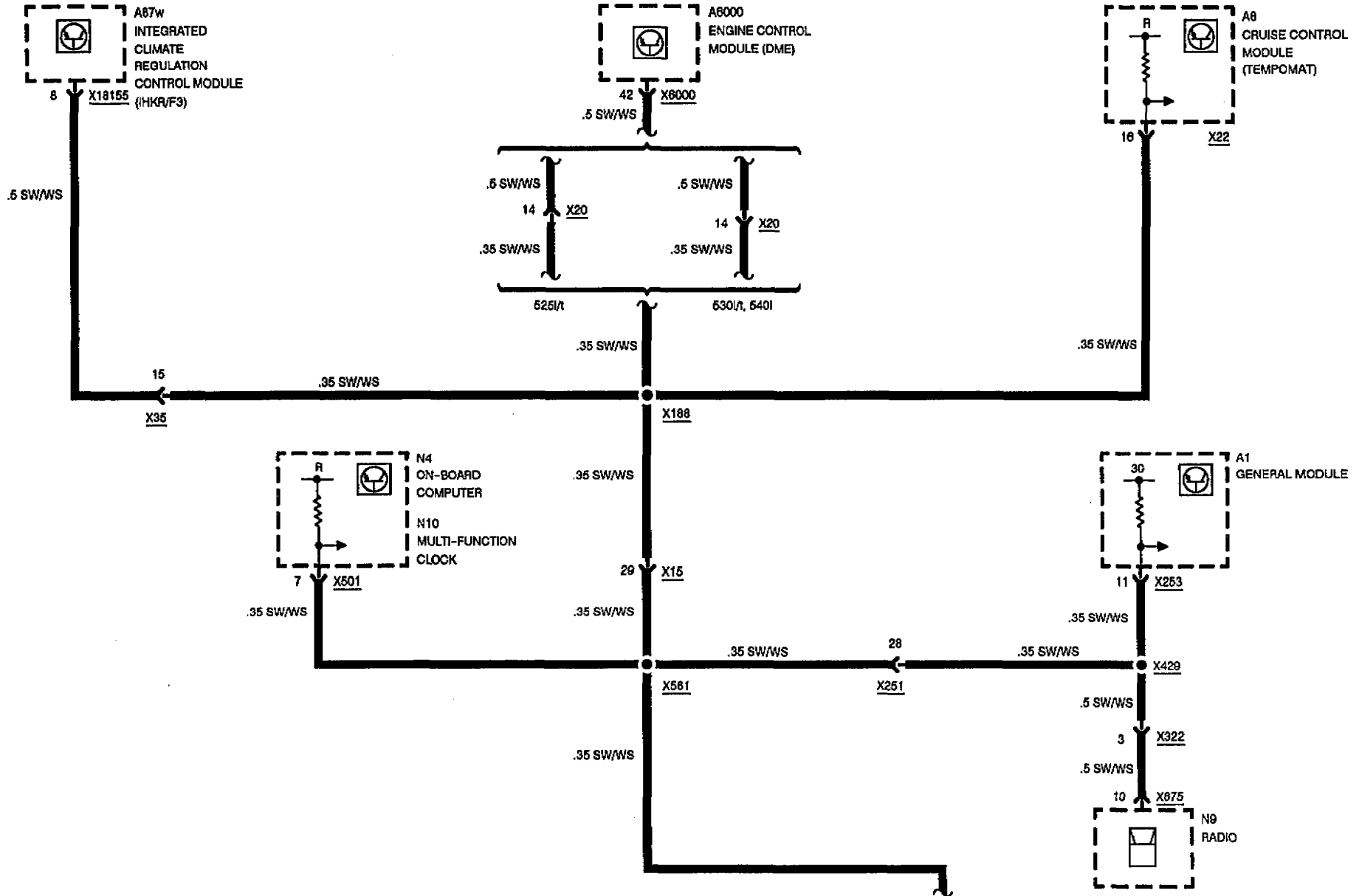
## INDICATORS



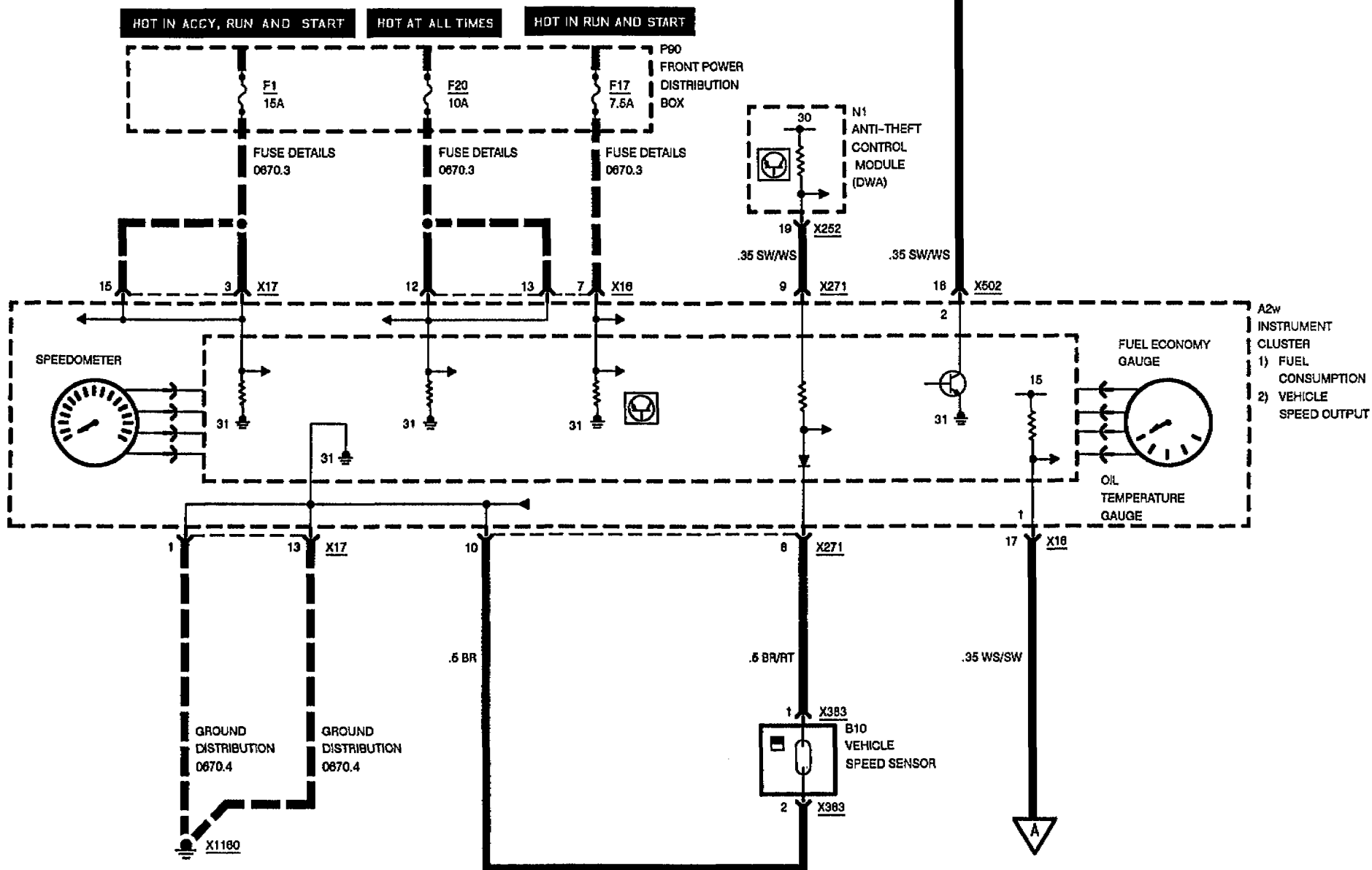


# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

## SPEED SIGNAL



# GAUGES

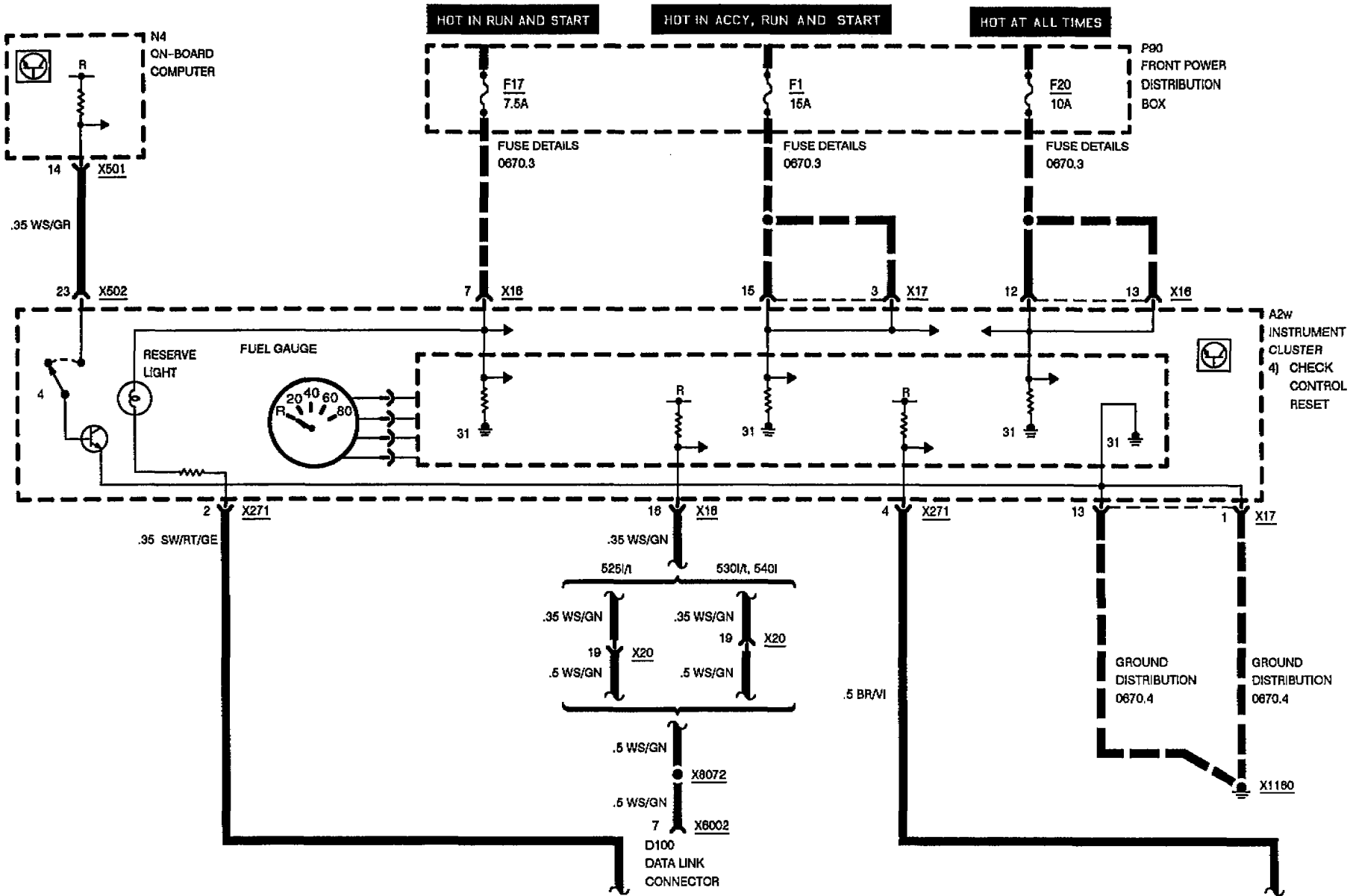


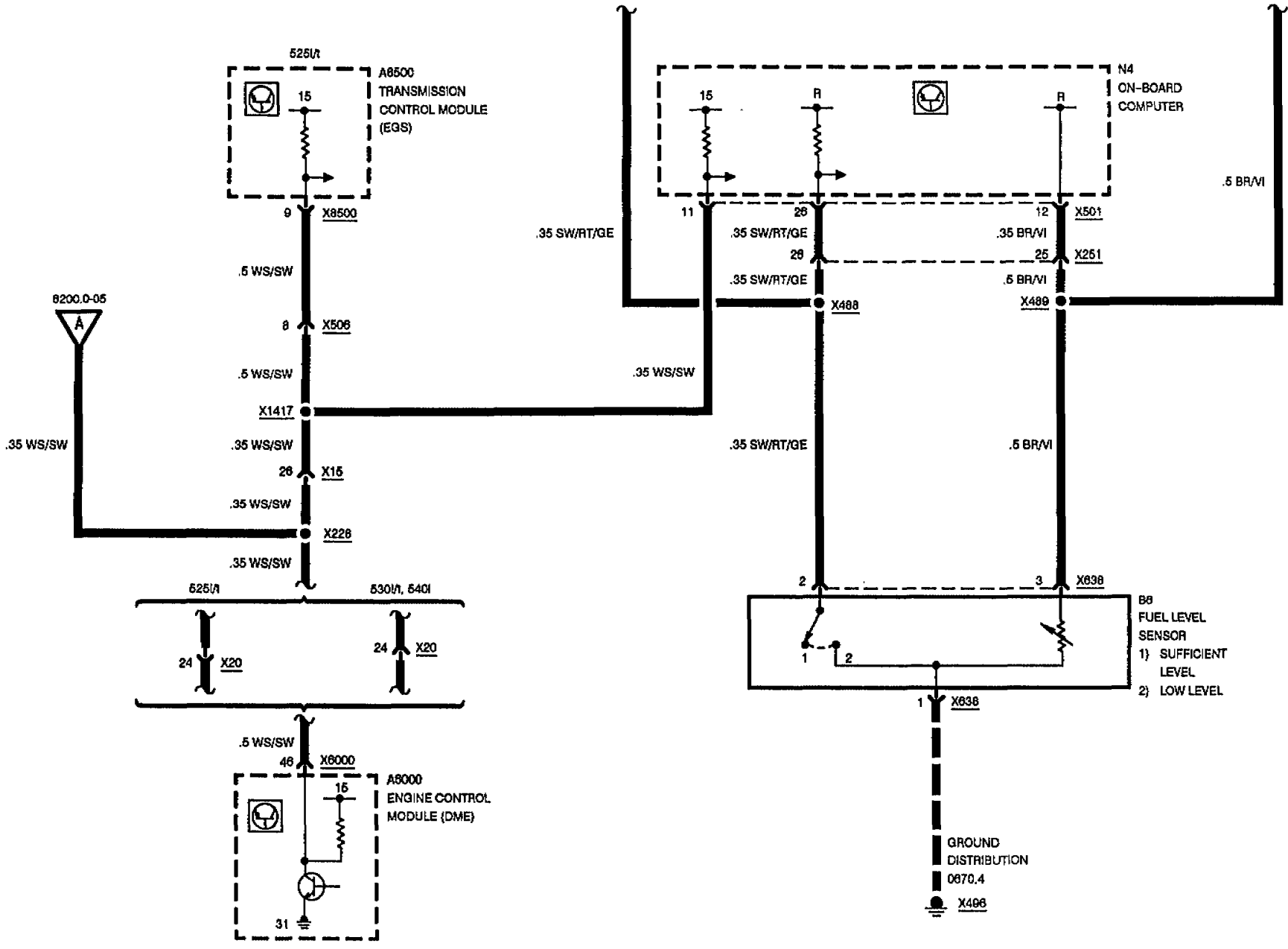
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# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

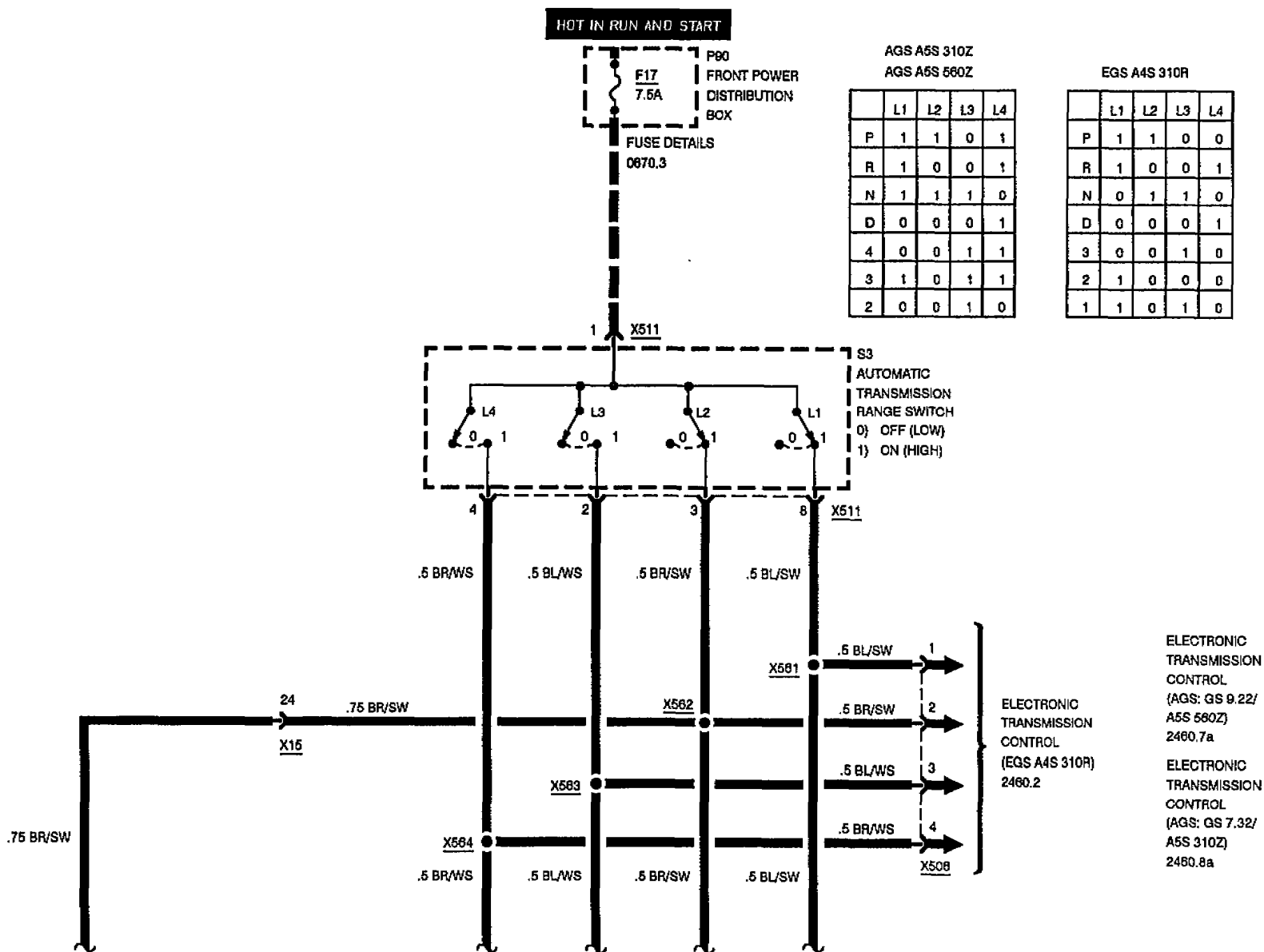
## GAUGES

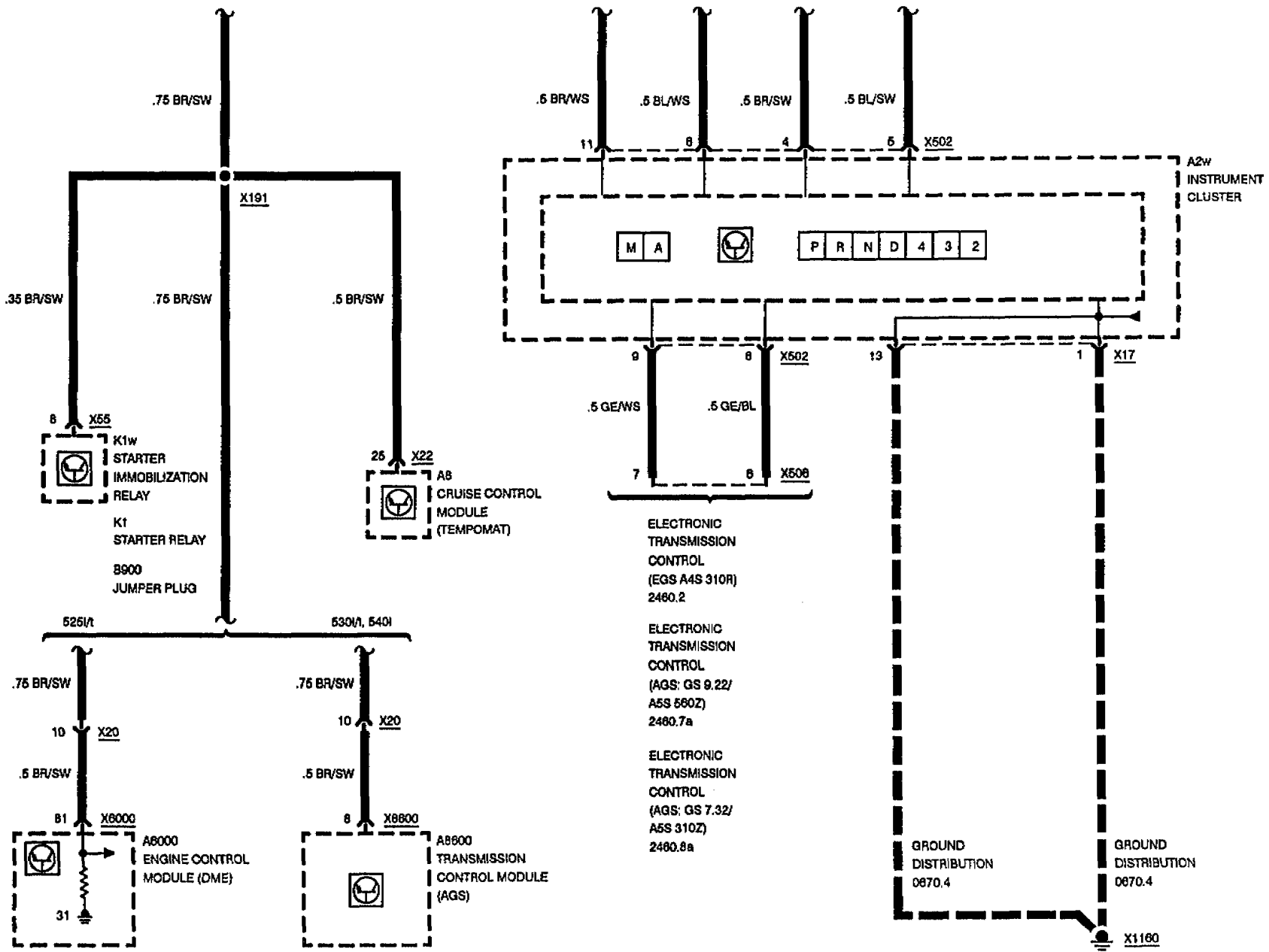






# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC) GEAR SELECTOR







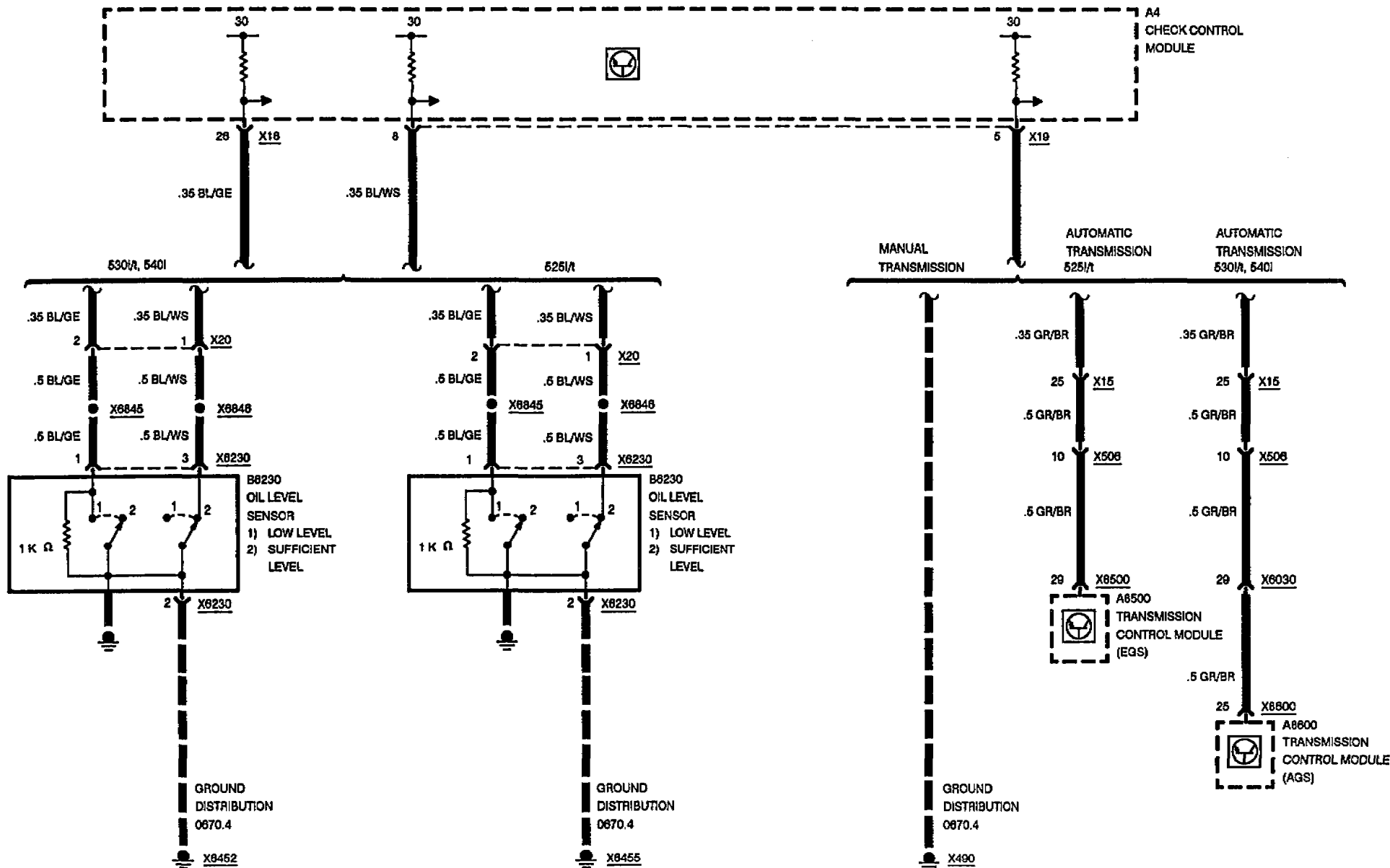






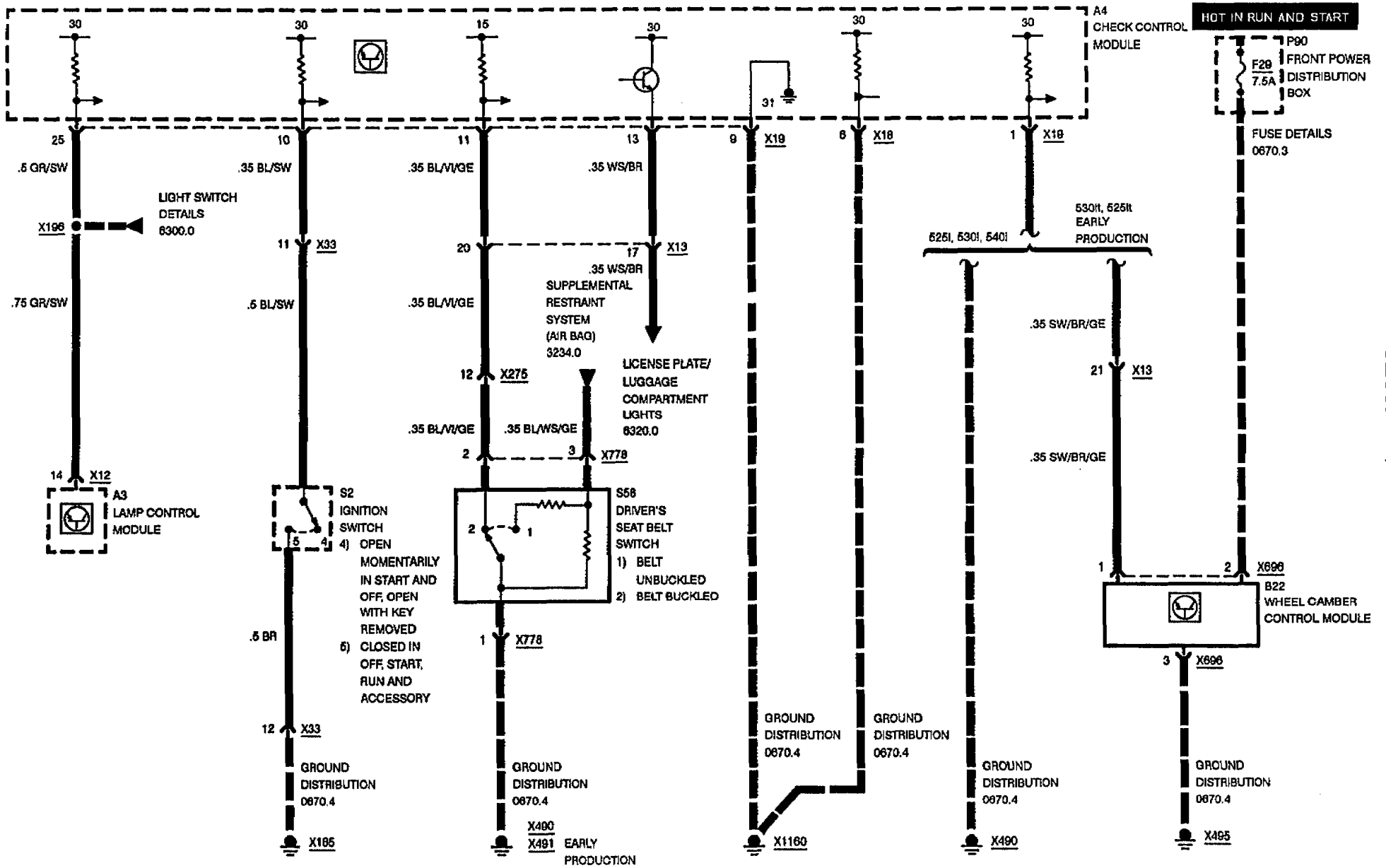
# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

## CHECK CONTROL



# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

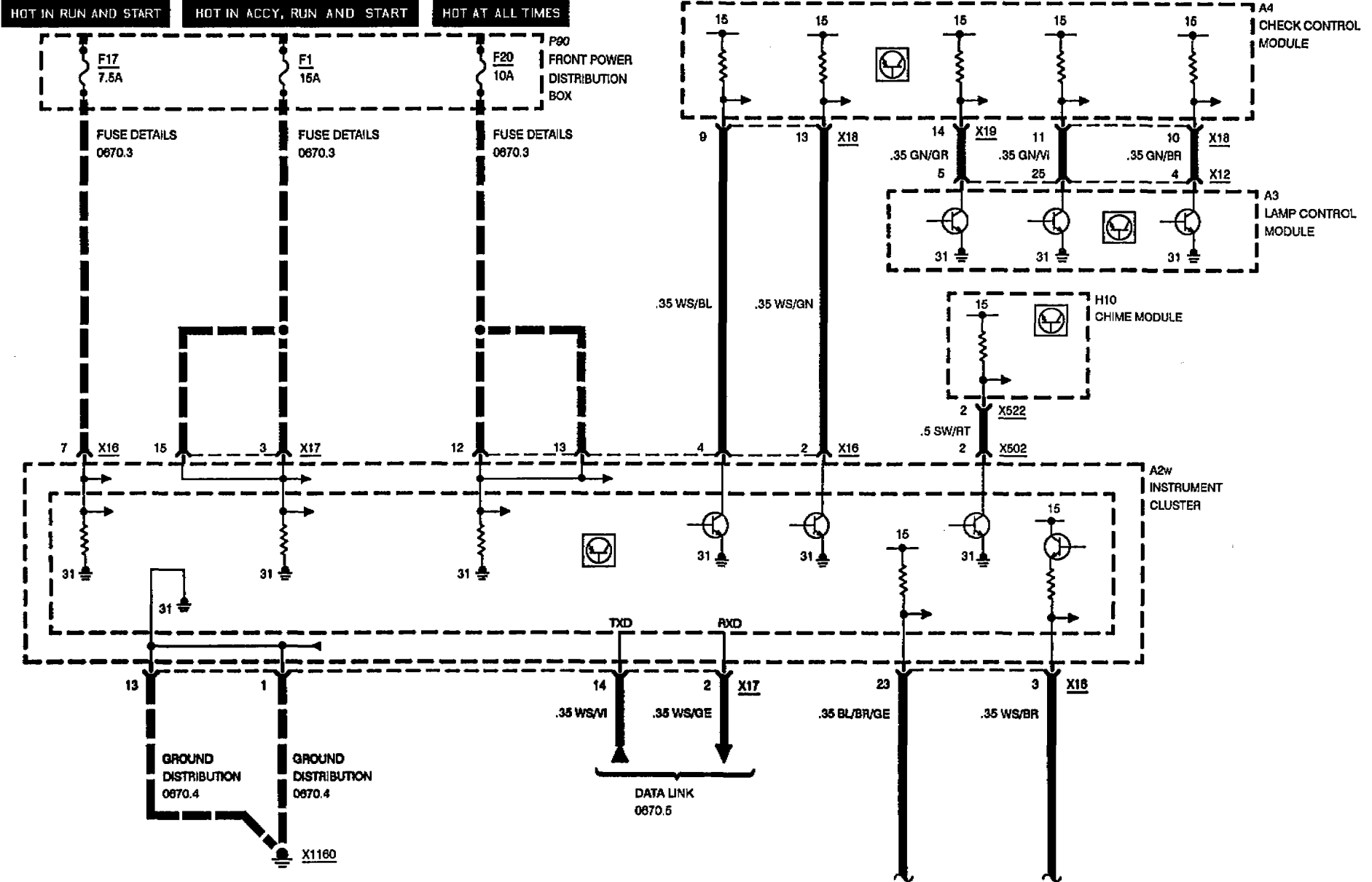
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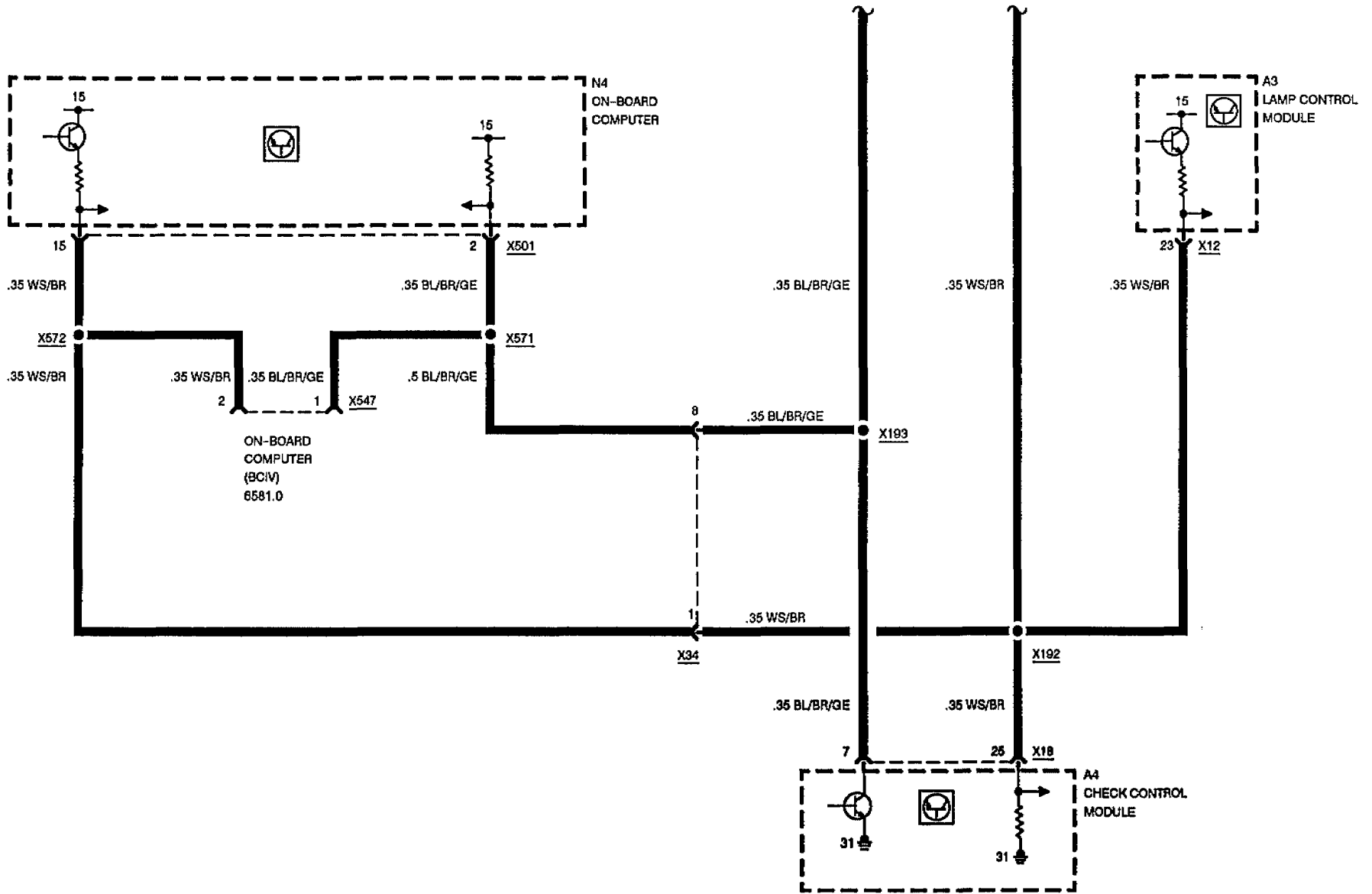




# INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)

## DATA LINK





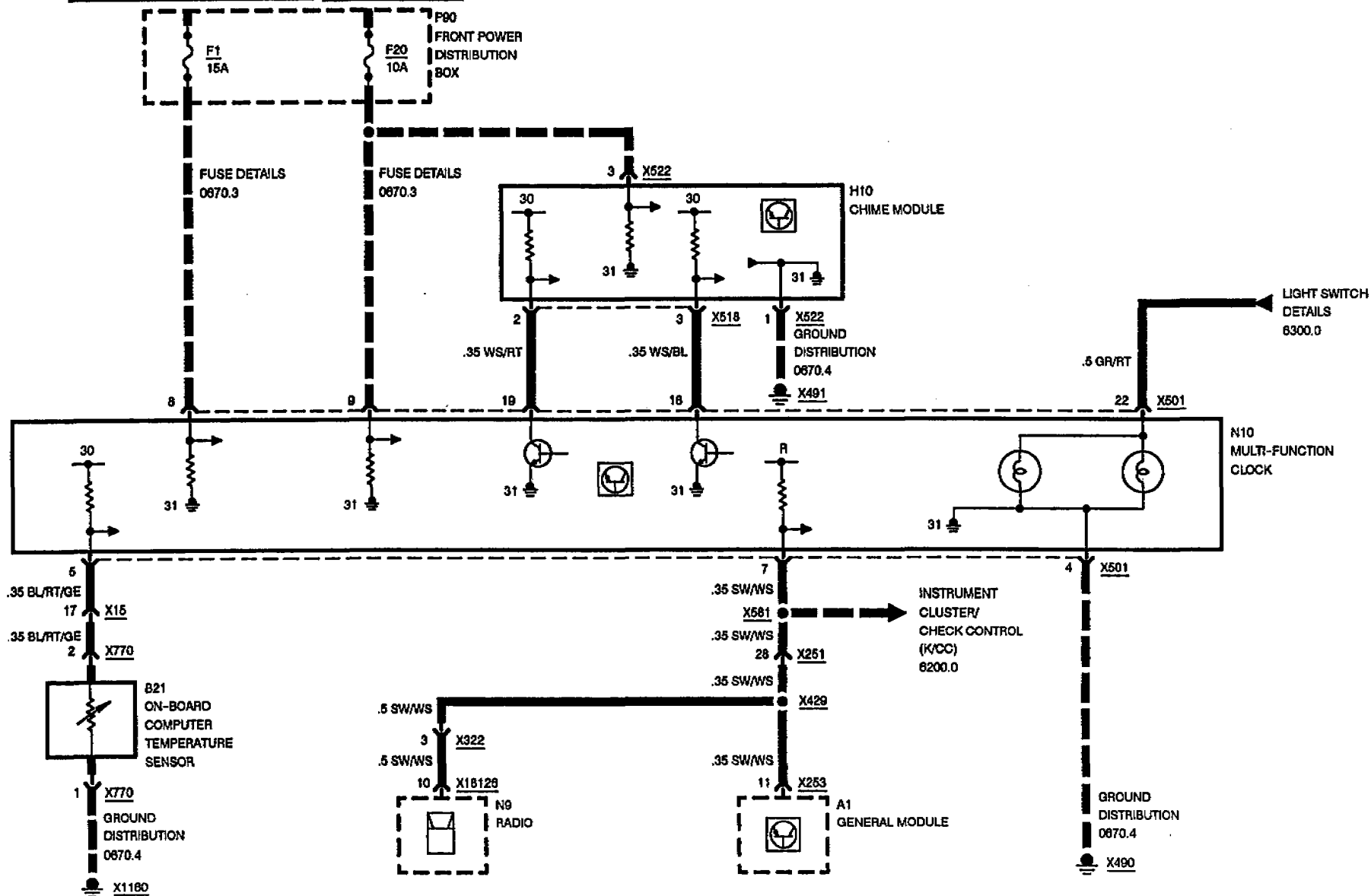


# CLOCK

## WITHOUT ON-BOARD COMPUTER

HOT IN ACCY, RUN AND START

HOT AT ALL TIMES



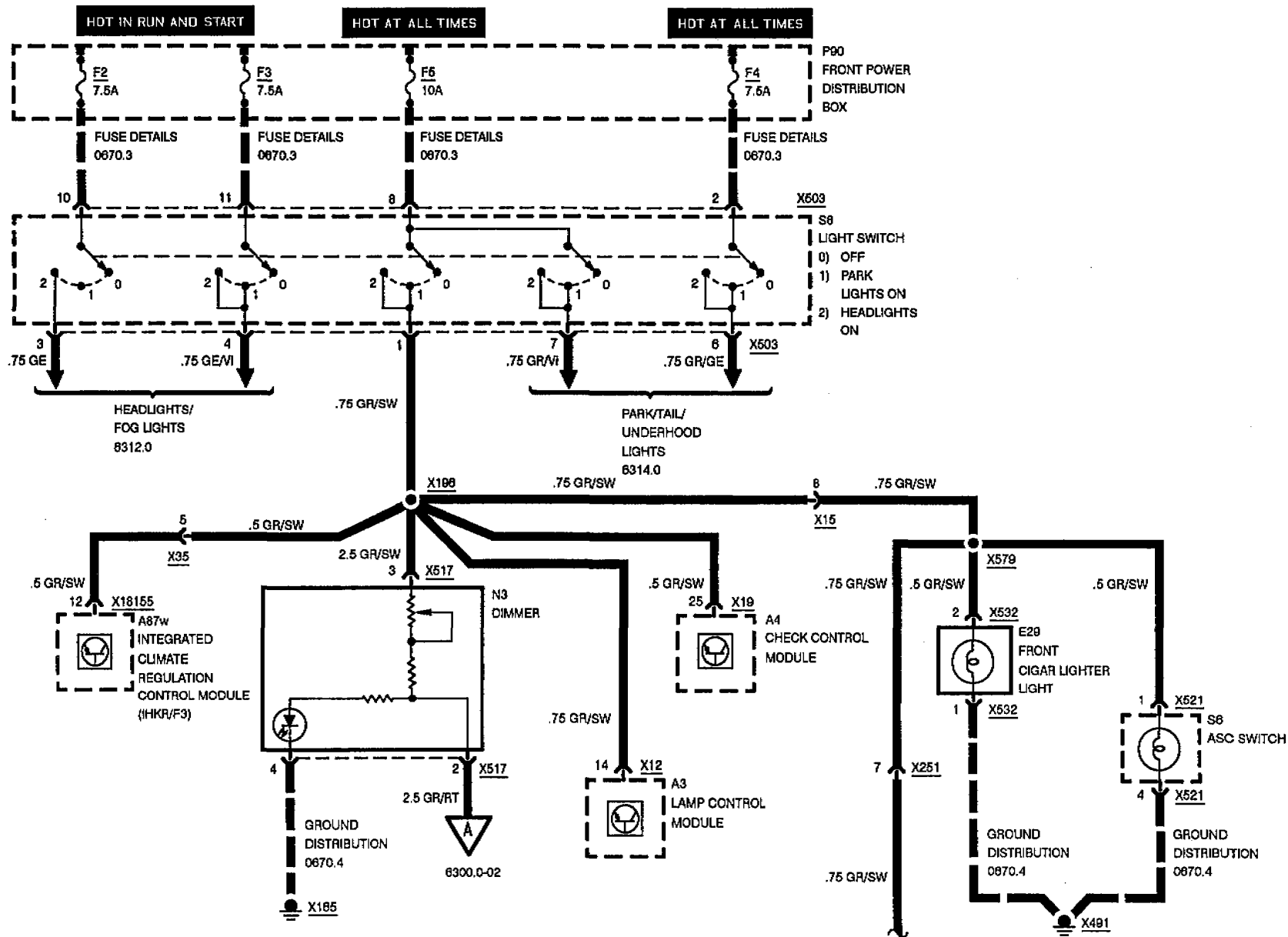
BMW  
5

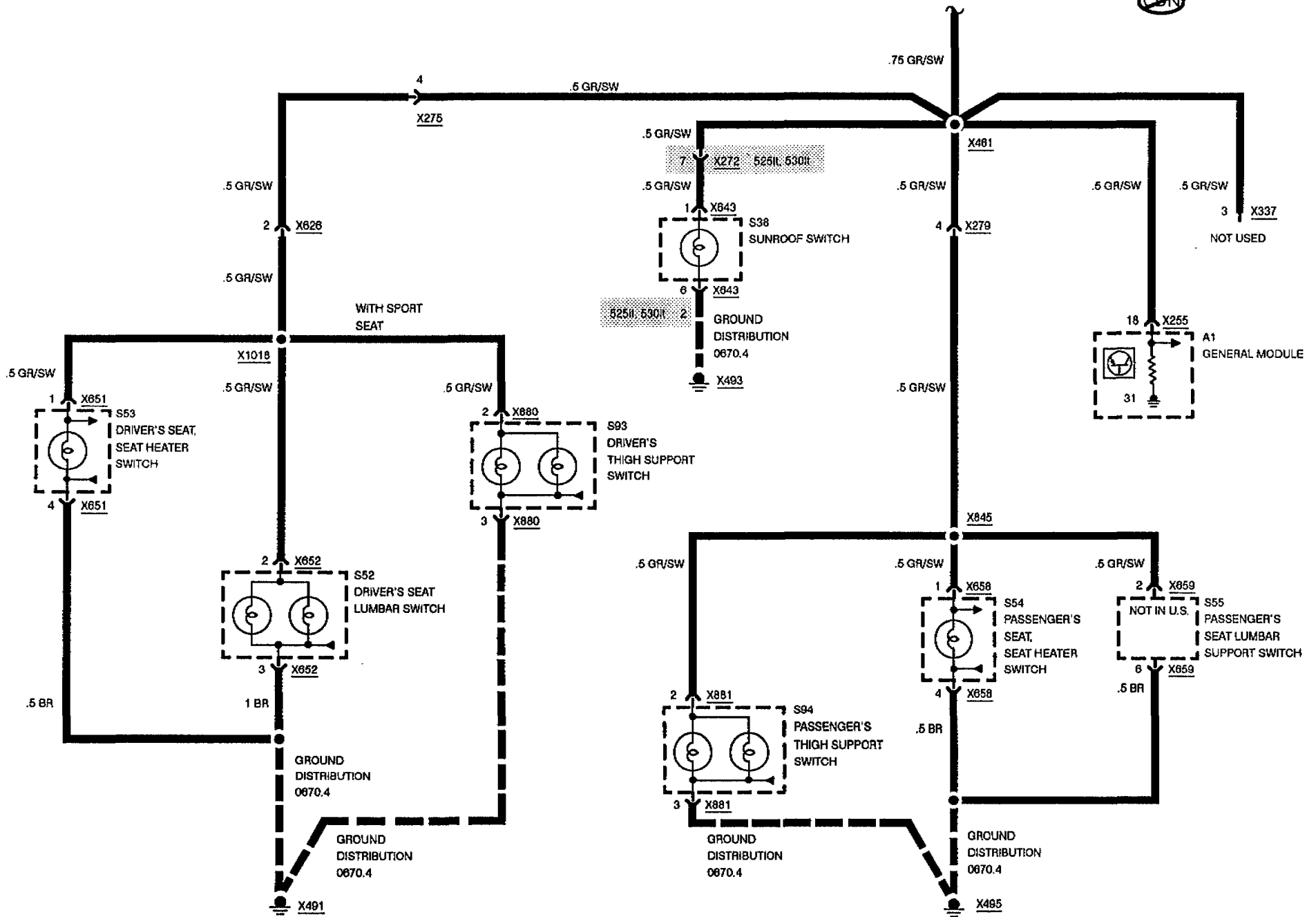
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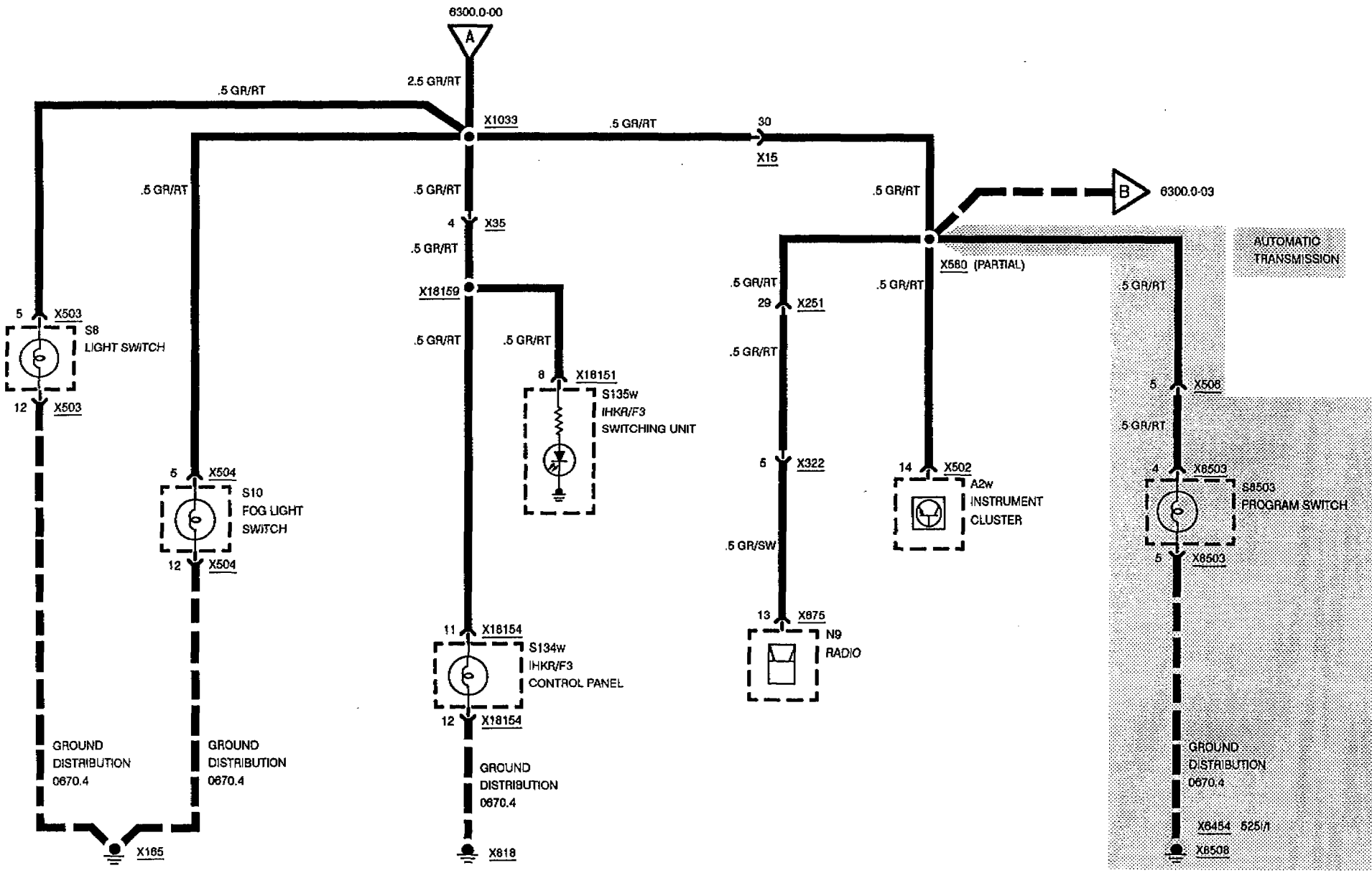


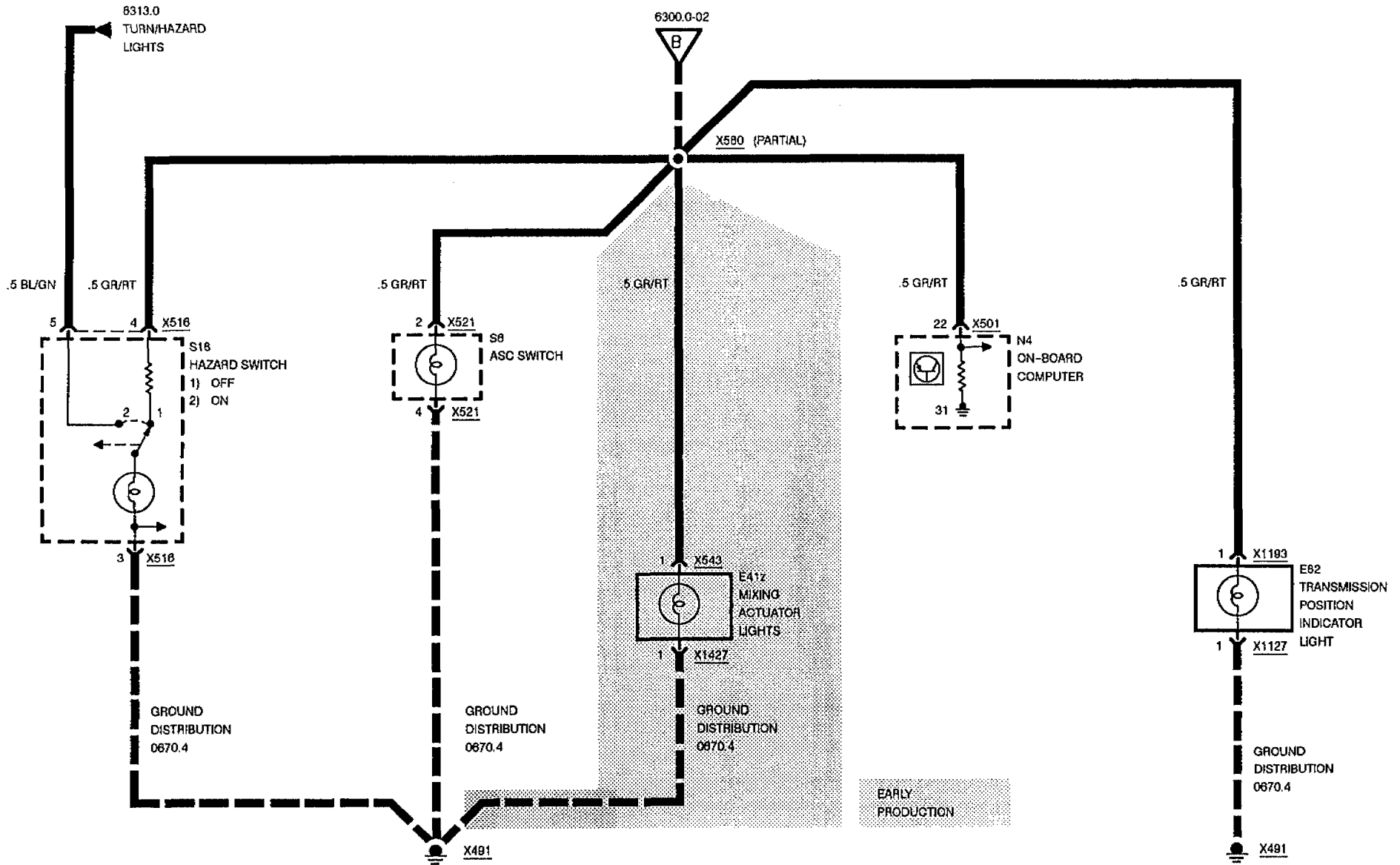
# LIGHT SWITCH DETAILS



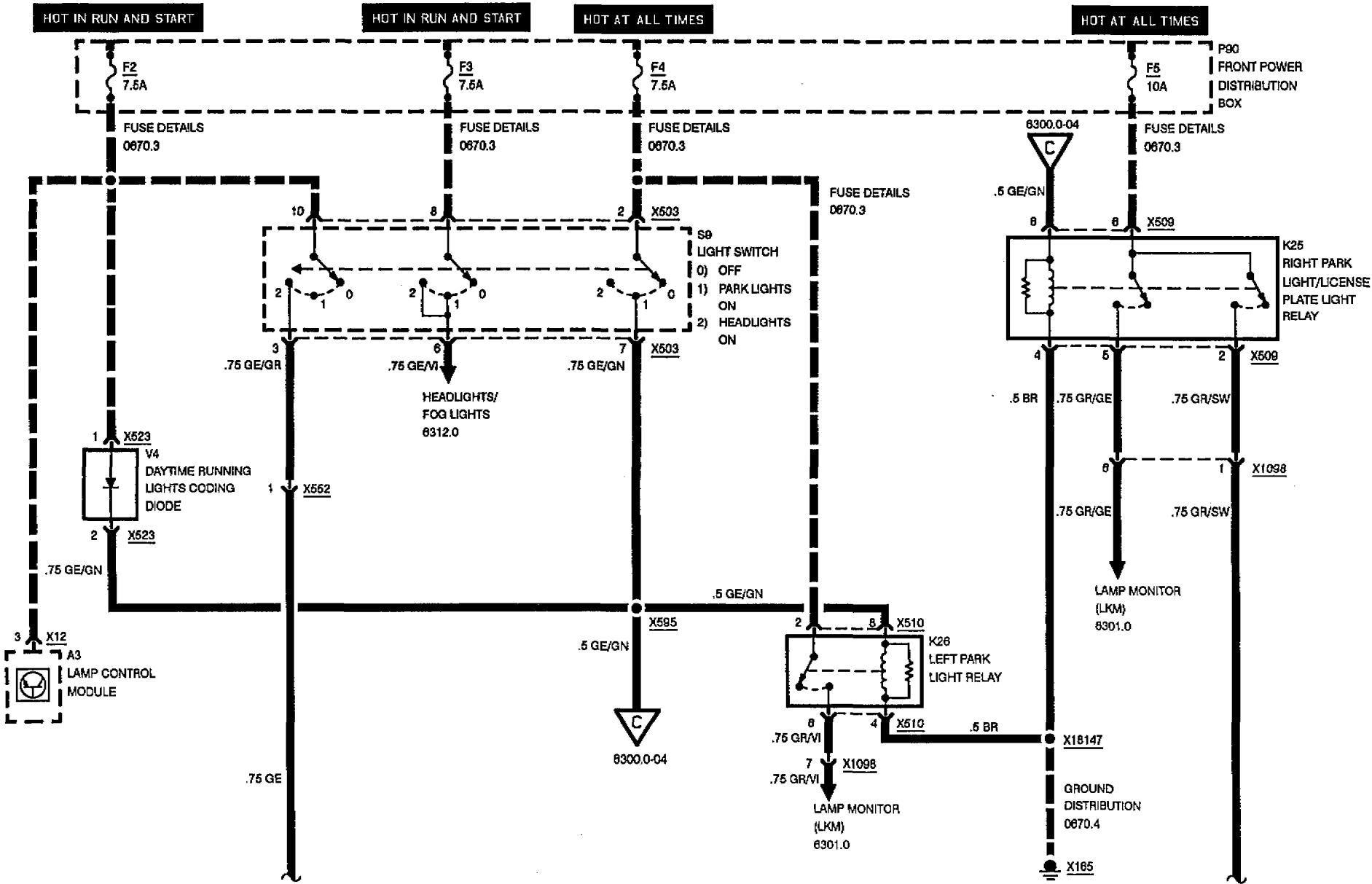


# LIGHT SWITCH DETAILS





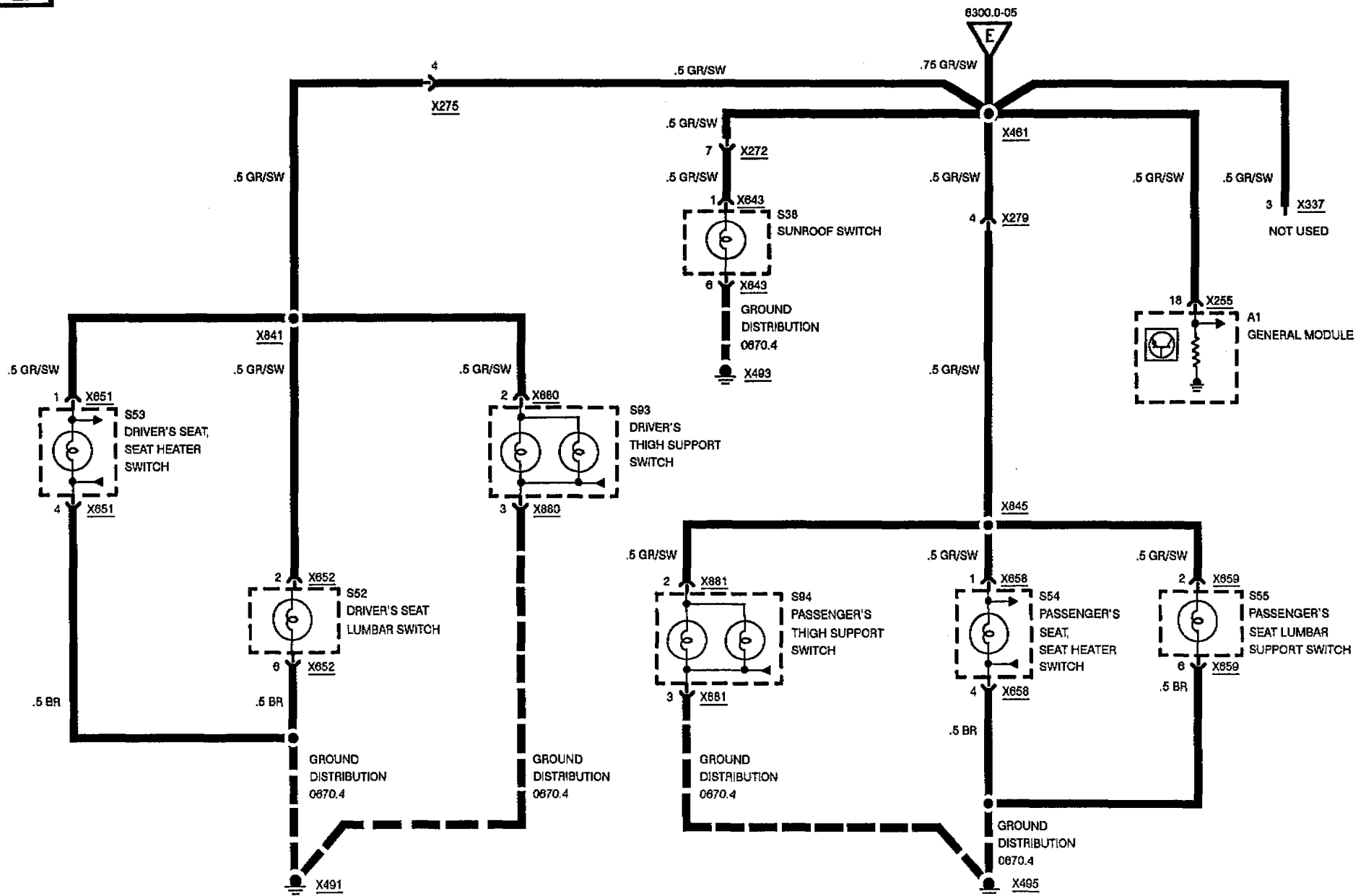
# LIGHT SWITCH DETAILS







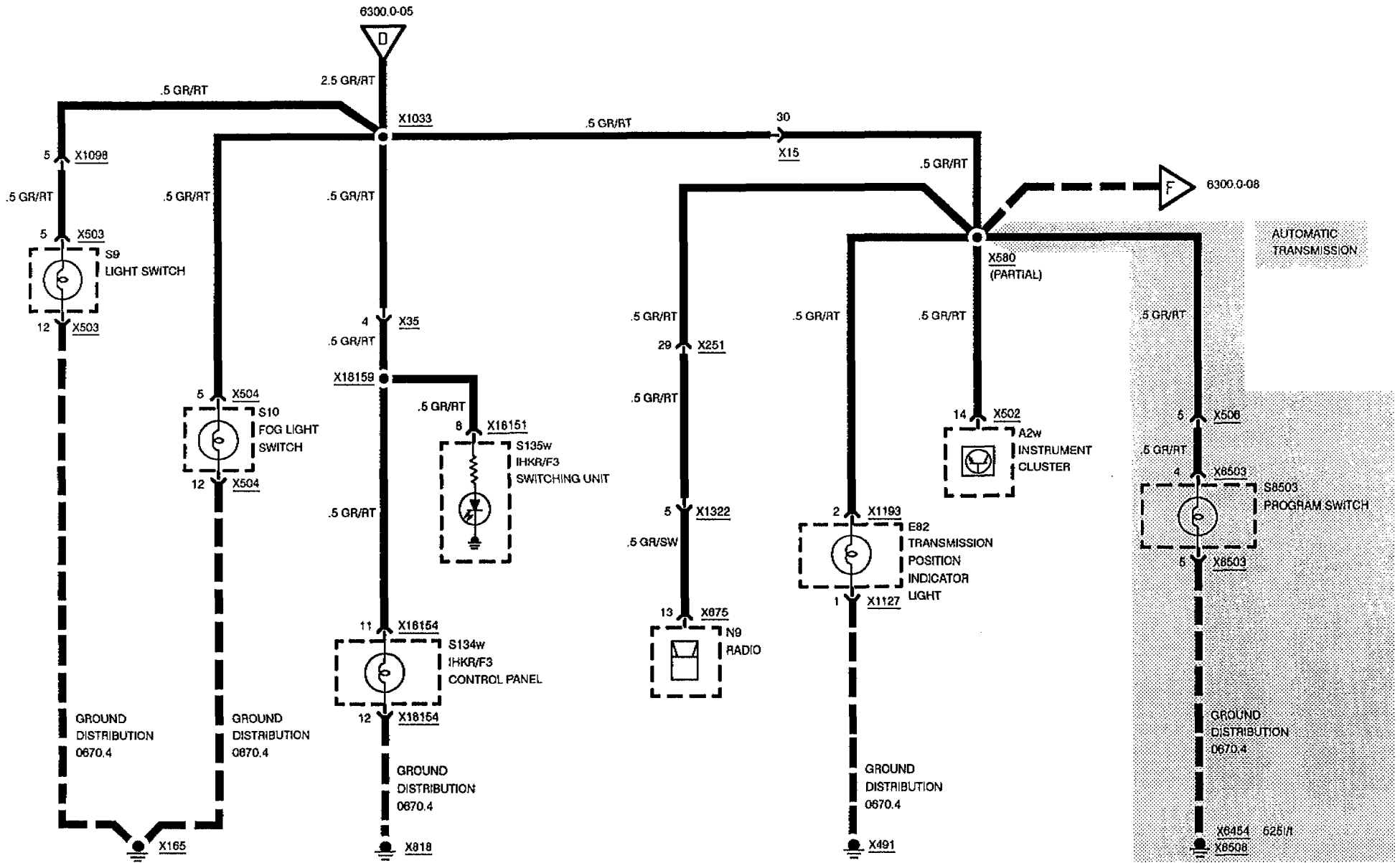
# LIGHT SWITCH DETAILS



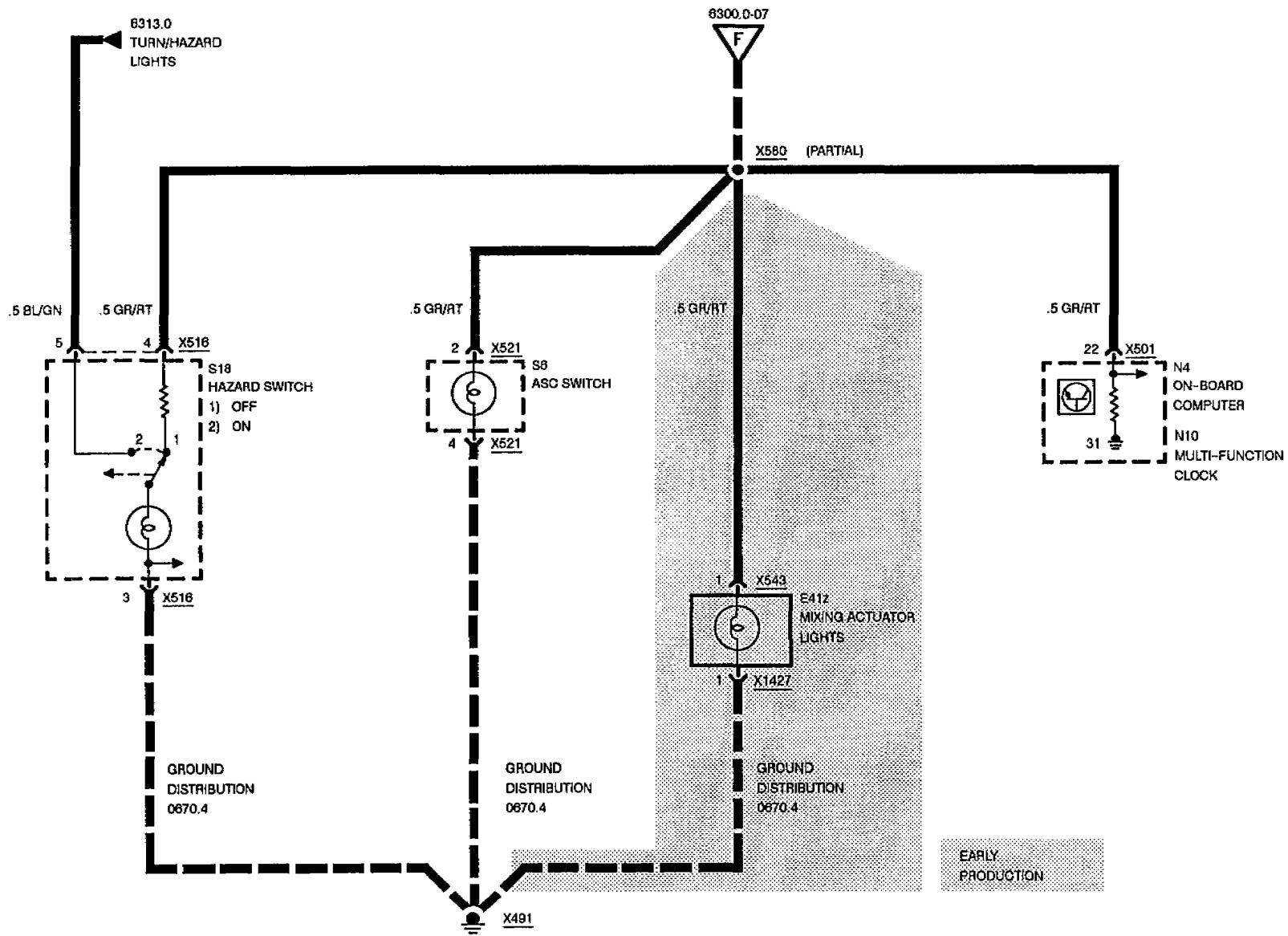
09/93

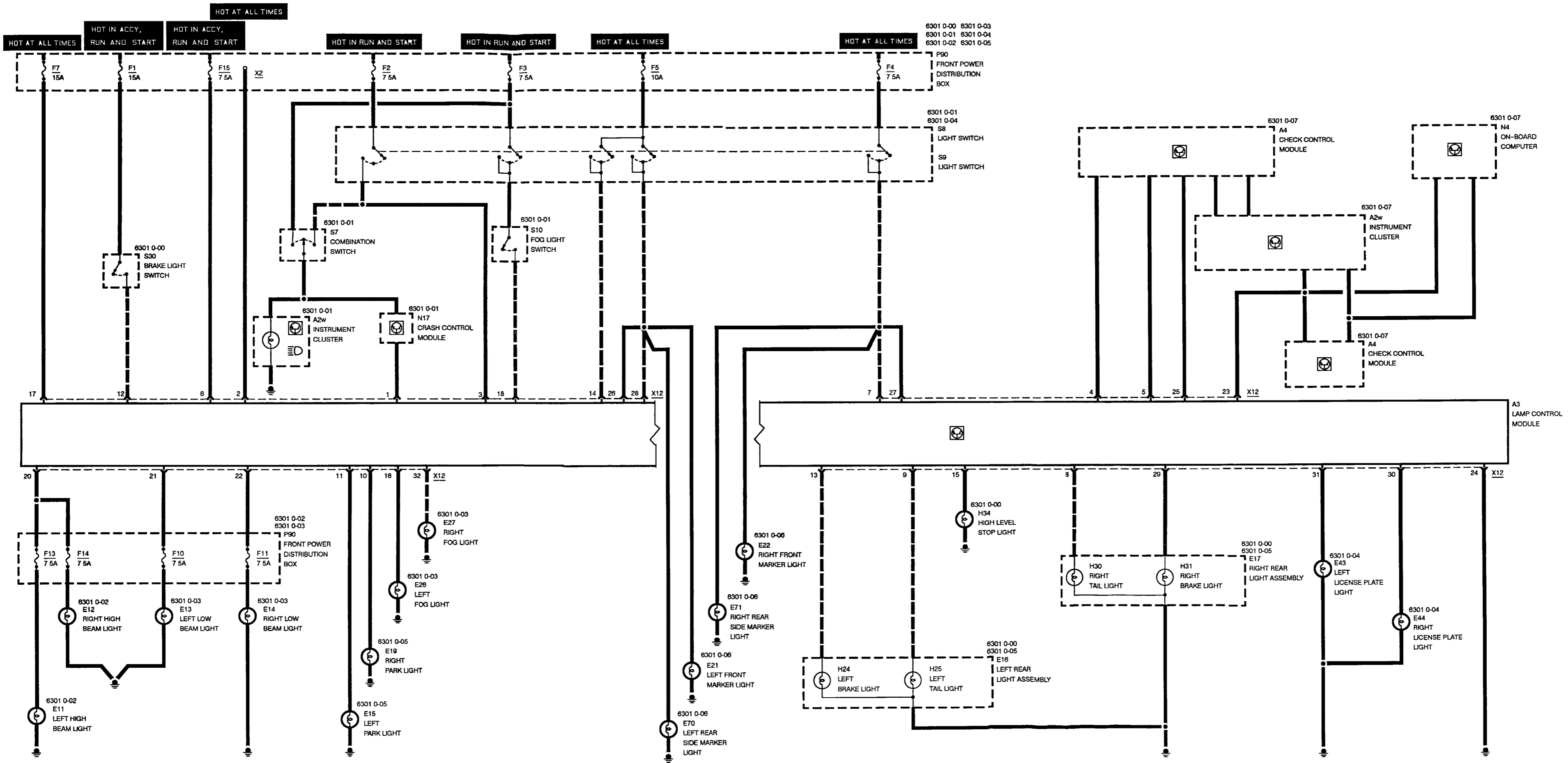
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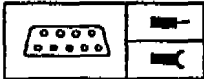
1994









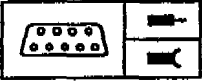


## Pin Assignments

### X12

Pin	Type	Description/Function	Connection
1	E	High beam signal	Crash control unit
2	E	Voltage supply (terminal 30)	Front power distribution box
3	E	Headlights signal	Light switch
4	A	Data link to CCM	Check control module
5	A	Data link to CCM	Check control module
6	E	Voltage supply (terminal R)	Front power distribution box
7	E	Tail light signal, right	Light switch
8	A	Tail light power, right	Rear light assembly, right
9	A	Tail light power, left	Rear light assembly, left
10	A	Park light power, right	Front light assembly, right
11	A	Park light power, left	Front light assembly, left
12	E	Brake pedal status	Brake light switch
13	A	Brake light power, left	Rear light assembly, left
14	E	Park lights signal	Light switch
15	A	High level stop light power	High level stop light
16	A	Fog light power, left	Fog light, left
17	E	Fog lights power	Front power distribution box
18	E	Fog light signal	Fog light switch
19		Not used	
20	A	High beam light power	Fuses/Front power distribution box
21	A	Low beam power, left	Fuses/Front power distribution box
22	A	Low beam power, right	Fuses/Front power distribution box
23	E	Data link to CCM	Check control module
24	M	Ground	Body ground point
25	E	Data link to CCM	Check control module
26	E	Tail light signal, left	Light switch
27	E	Park light signal, right	Light switch
28	E	Park light signal, left	Light switch
29	A	Brake light power, right	Brake light, right
30	A	License plate light power, right	License plate light, right

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
31	A	License plate light power, left	License plate light, left
32	A	Fog light power, right	Fog light, right

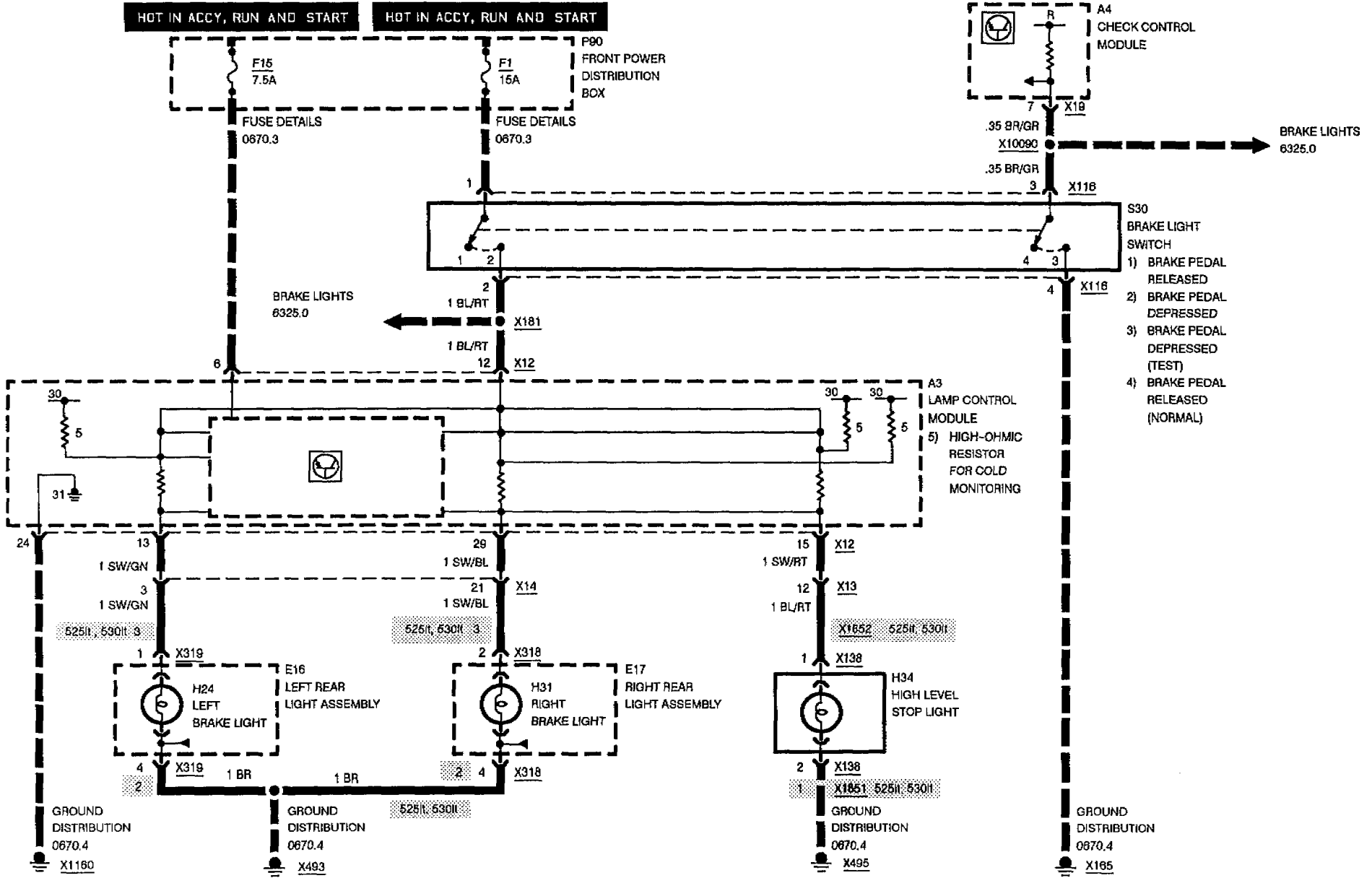
E = Input, A = Output, M = Ground

BMW  
5

6301.0



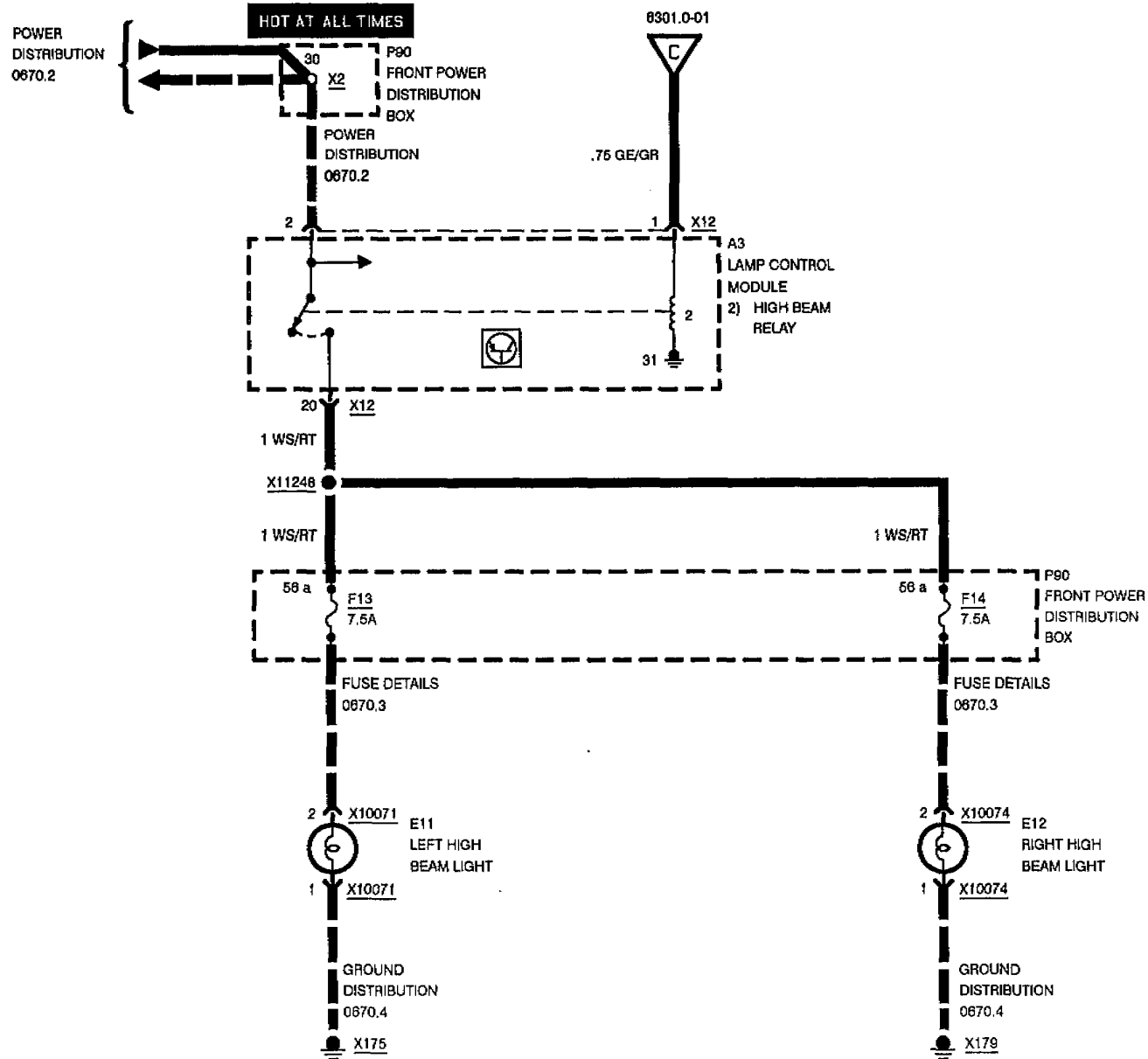
# LAMP MONITOR (LKM) BRAKE LIGHTS





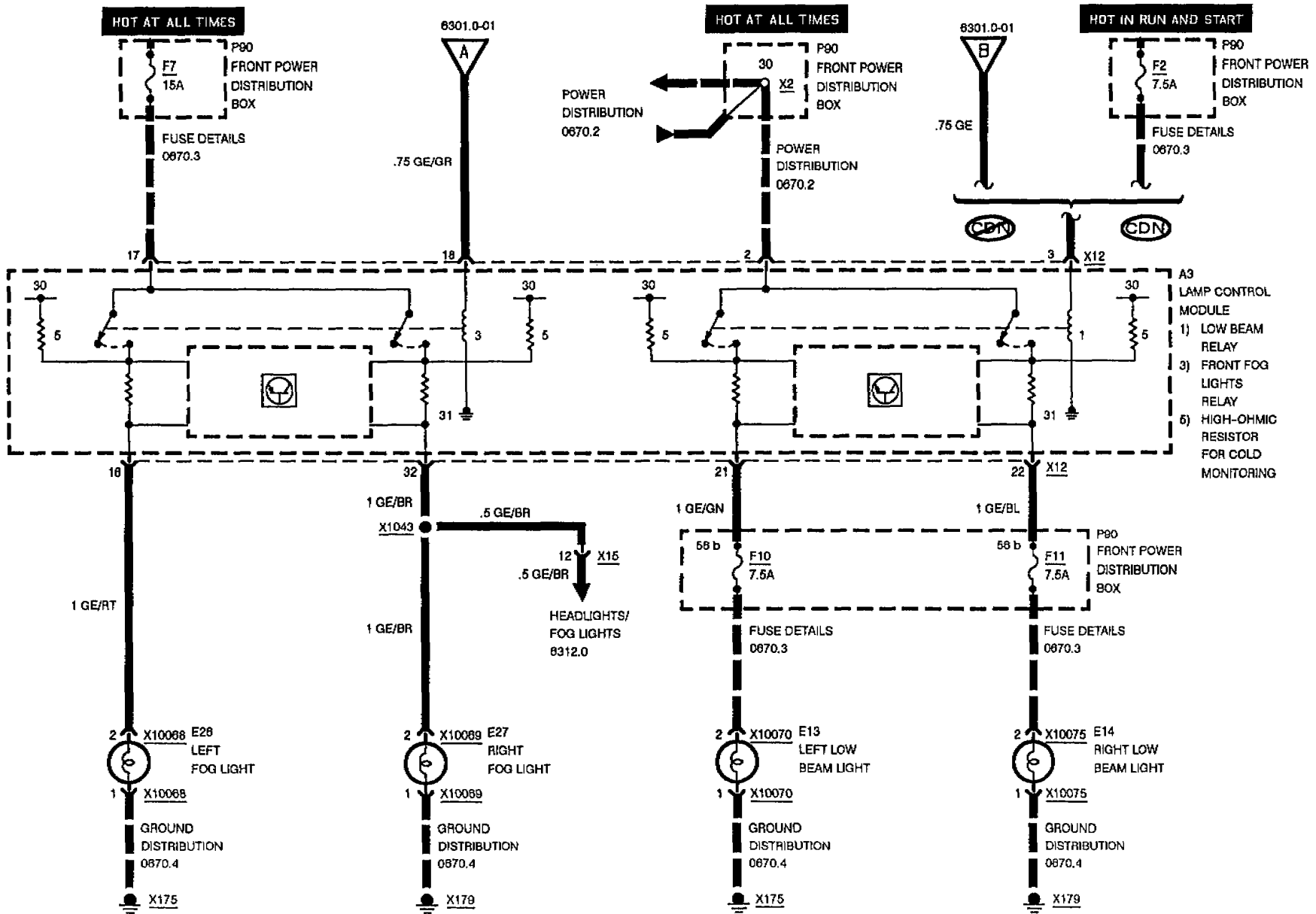


# LAMP MONITOR (LKM)



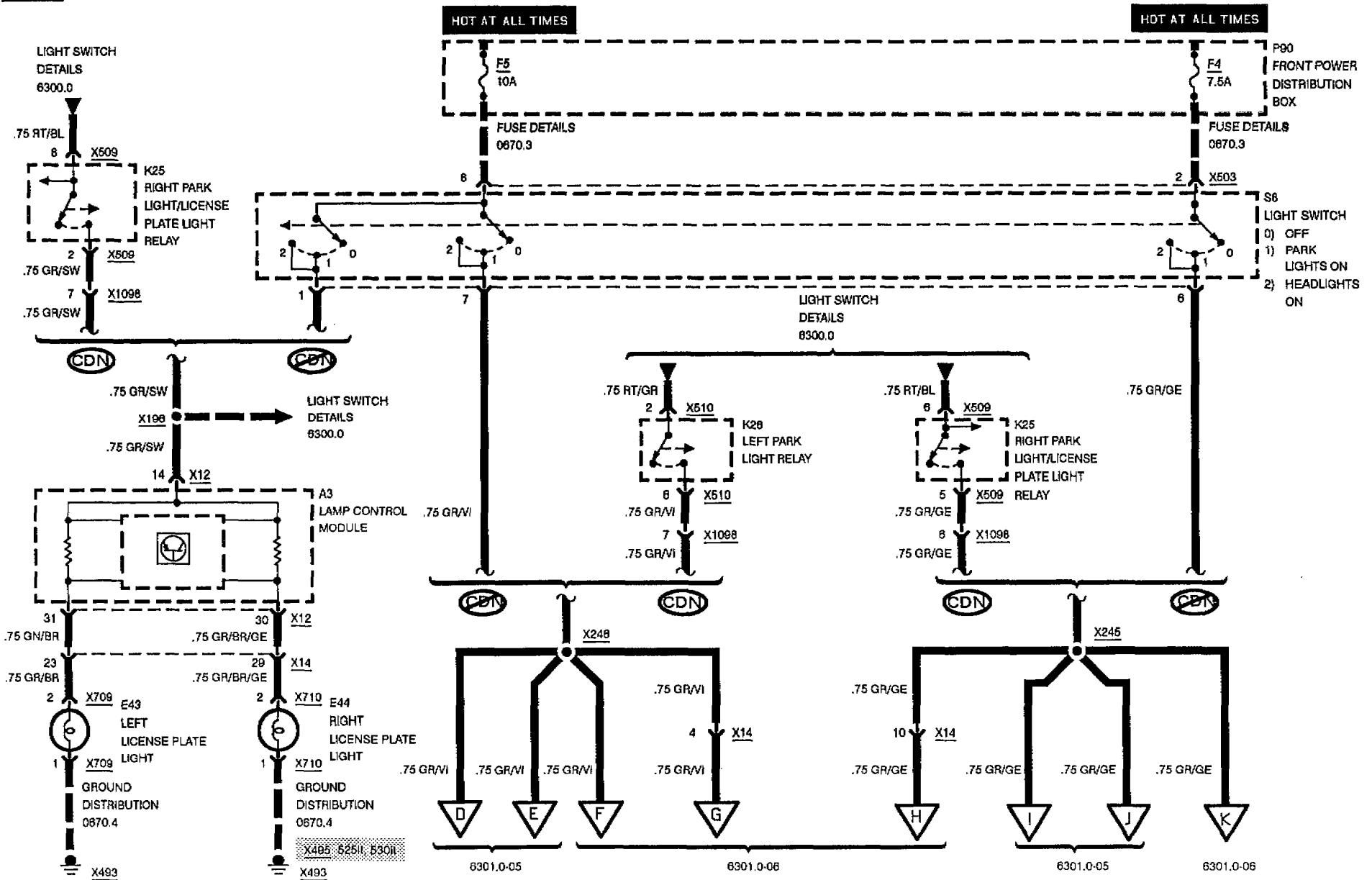


# LAMP MONITOR (LKM)





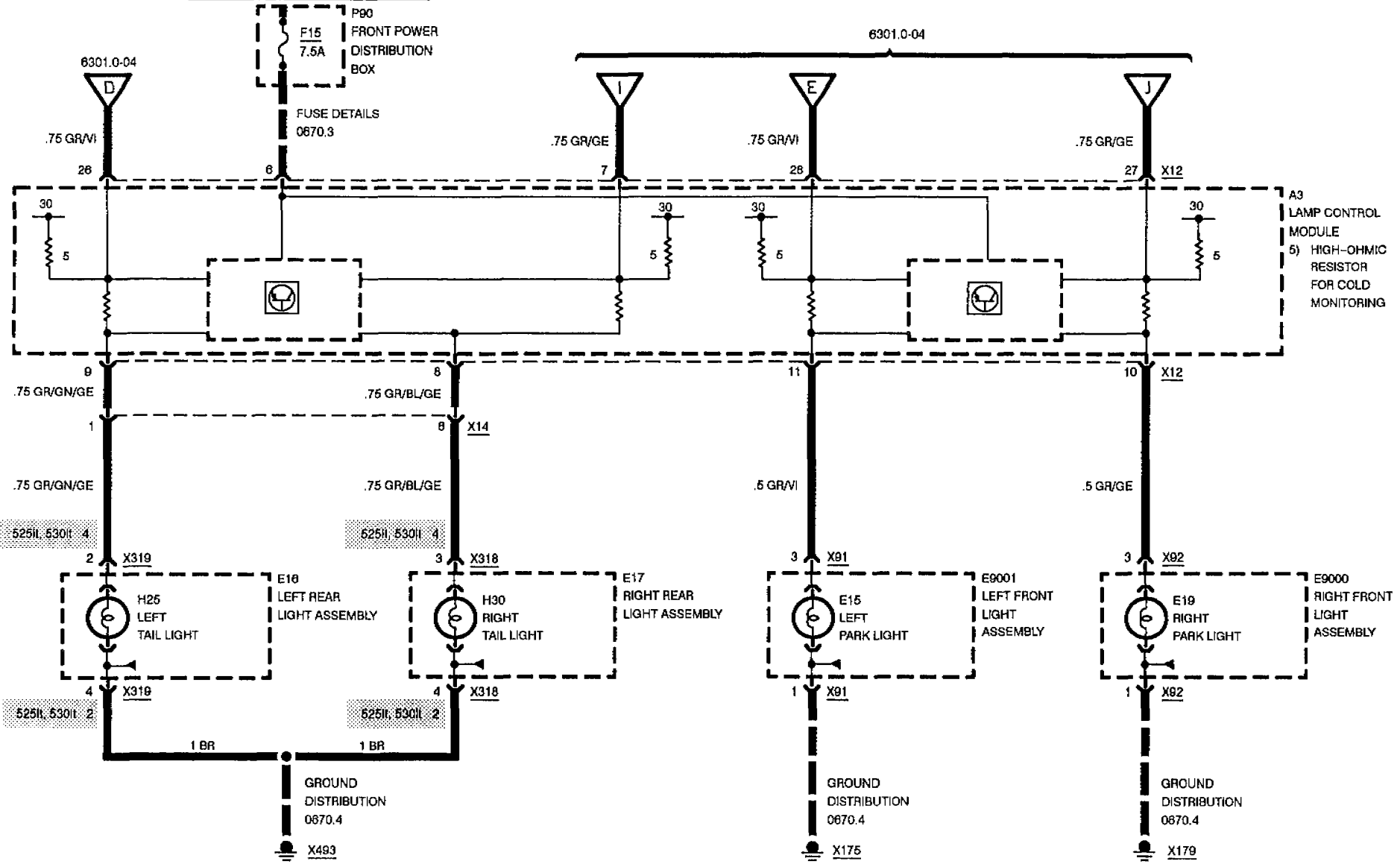
# LAMP MONITOR (LKM)





# LAMP MONITOR (LKM)

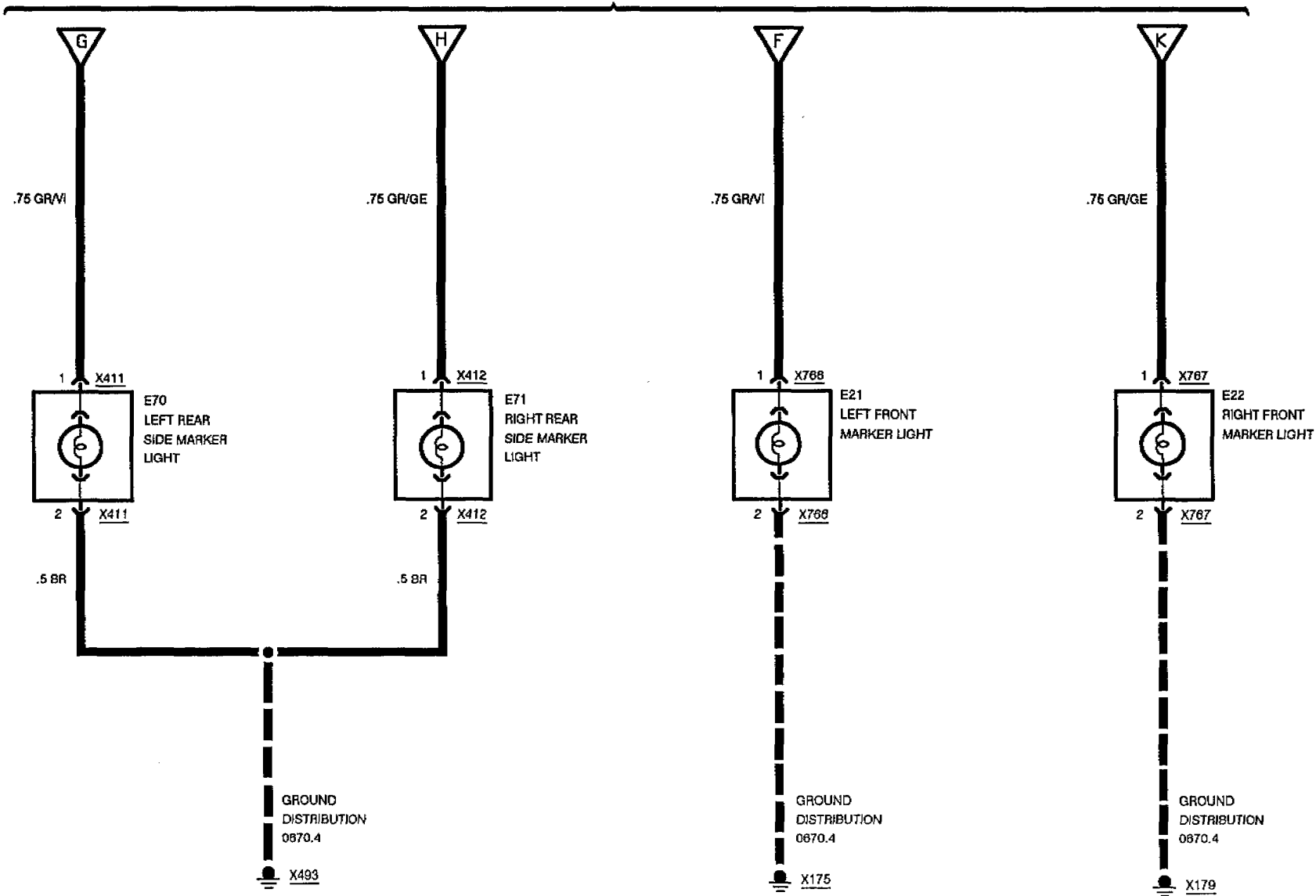
HOT IN ACCY, RUN AND START





# LAMP MONITOR (LKM)

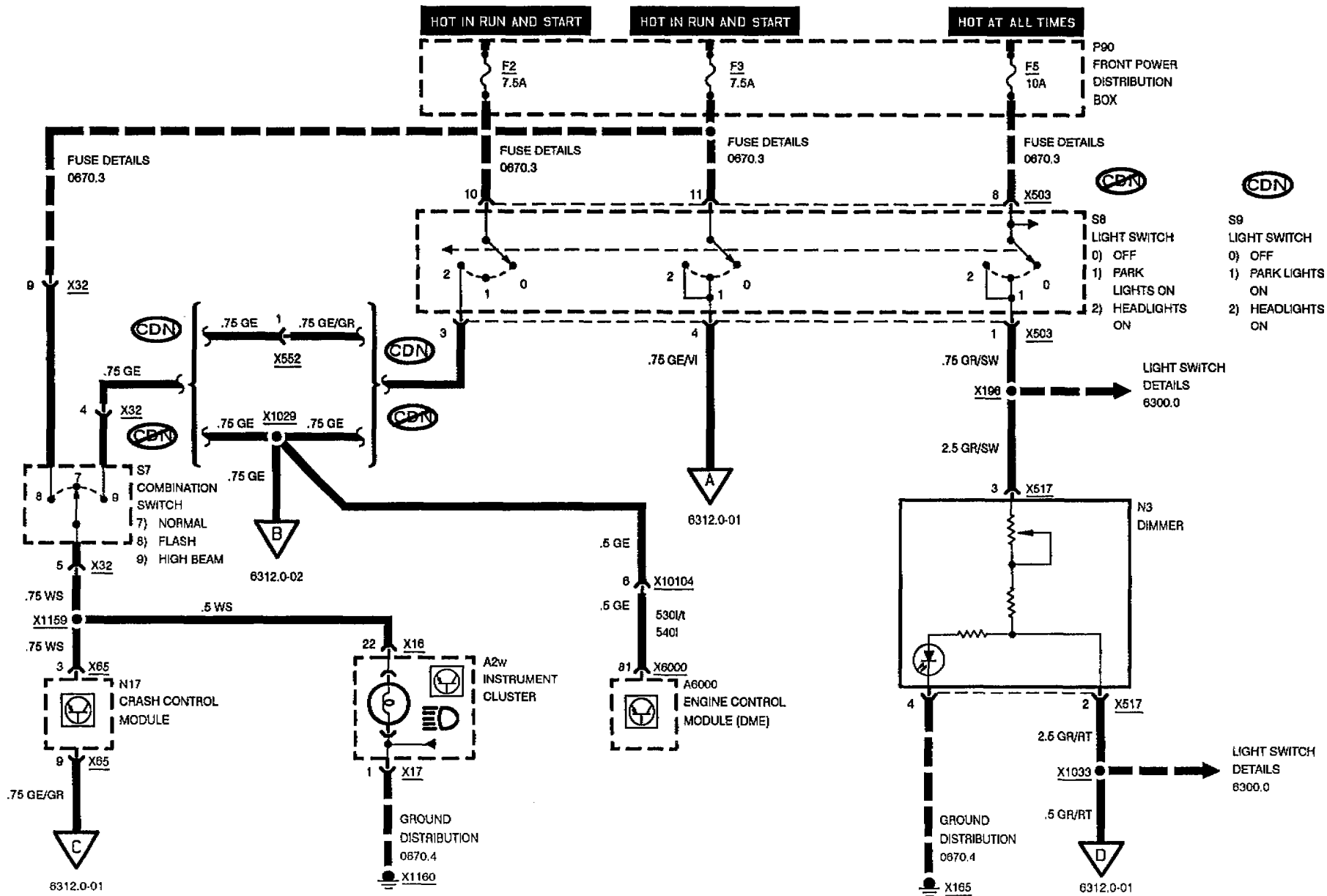
6301.0-04



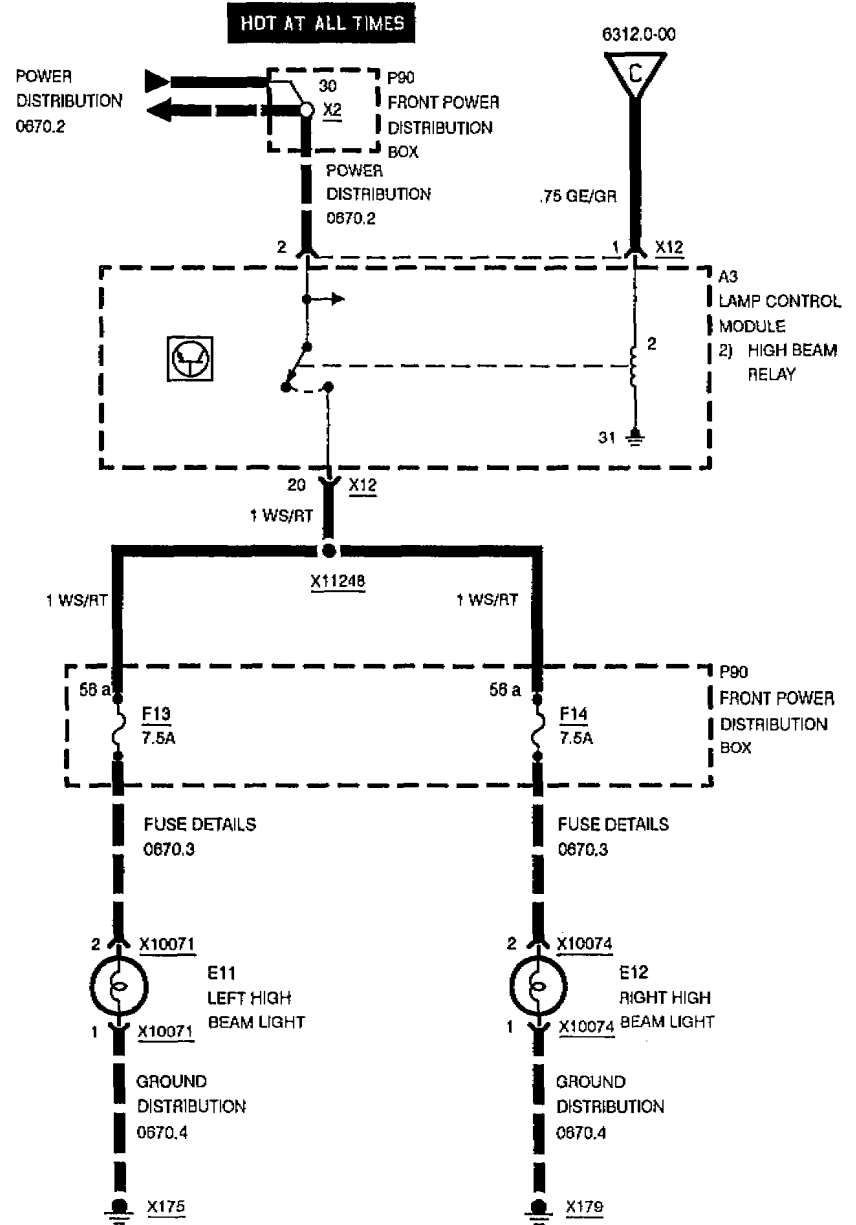
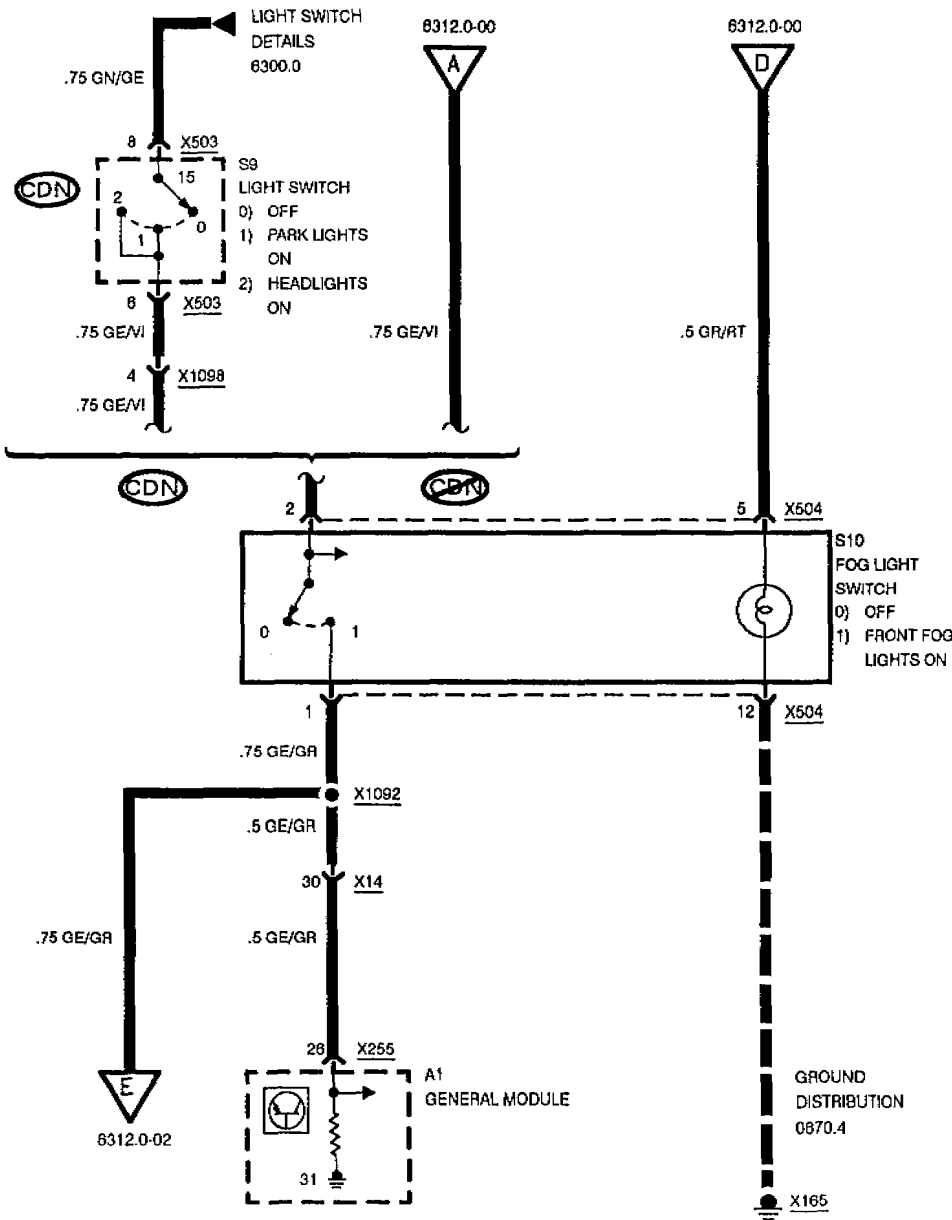




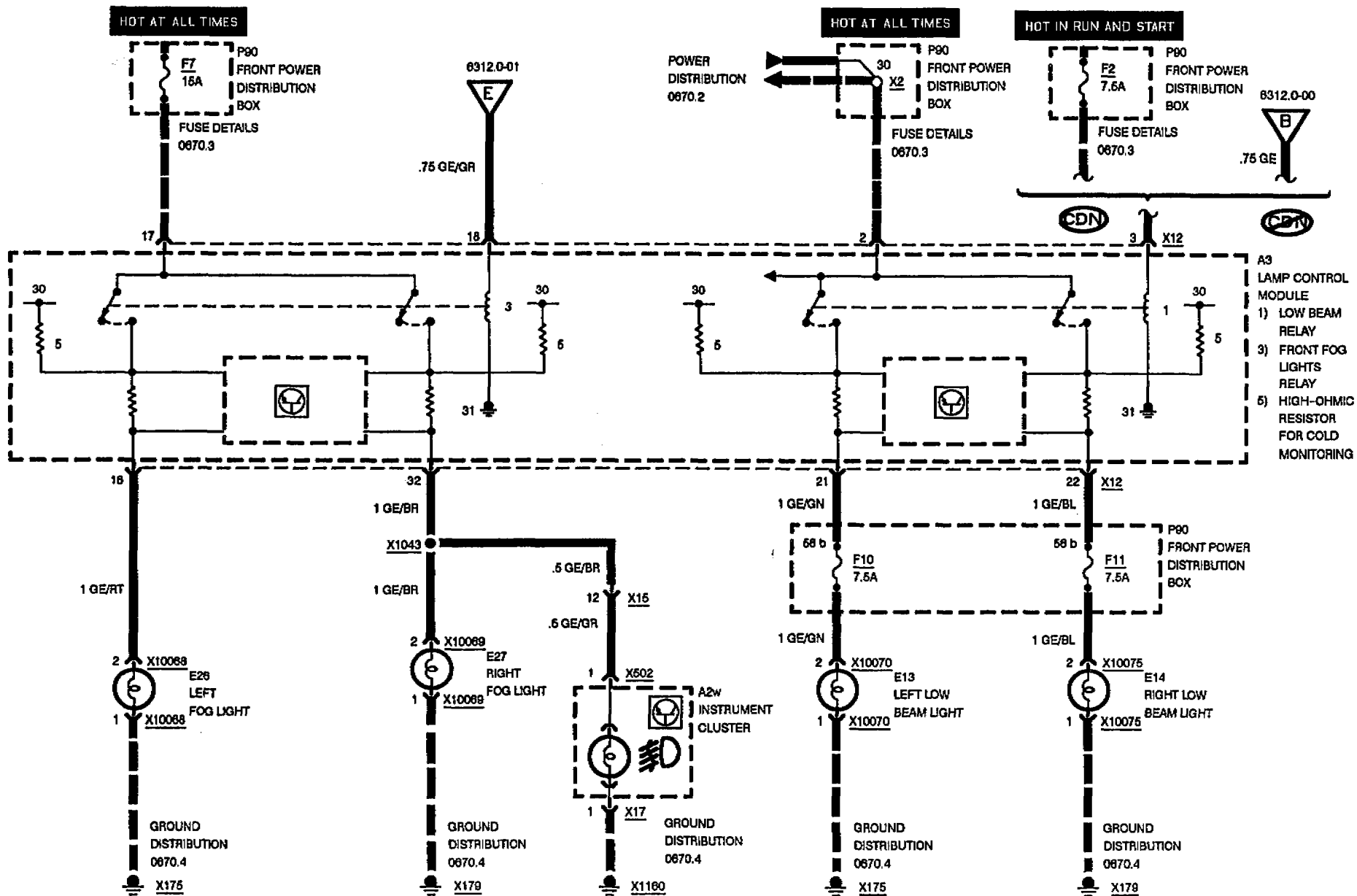
# HEADLIGHTS/ FOG LIGHTS



HEADLIGHTS/ FOG LIGHTS



# HEADLIGHTS/ FOG LIGHTS



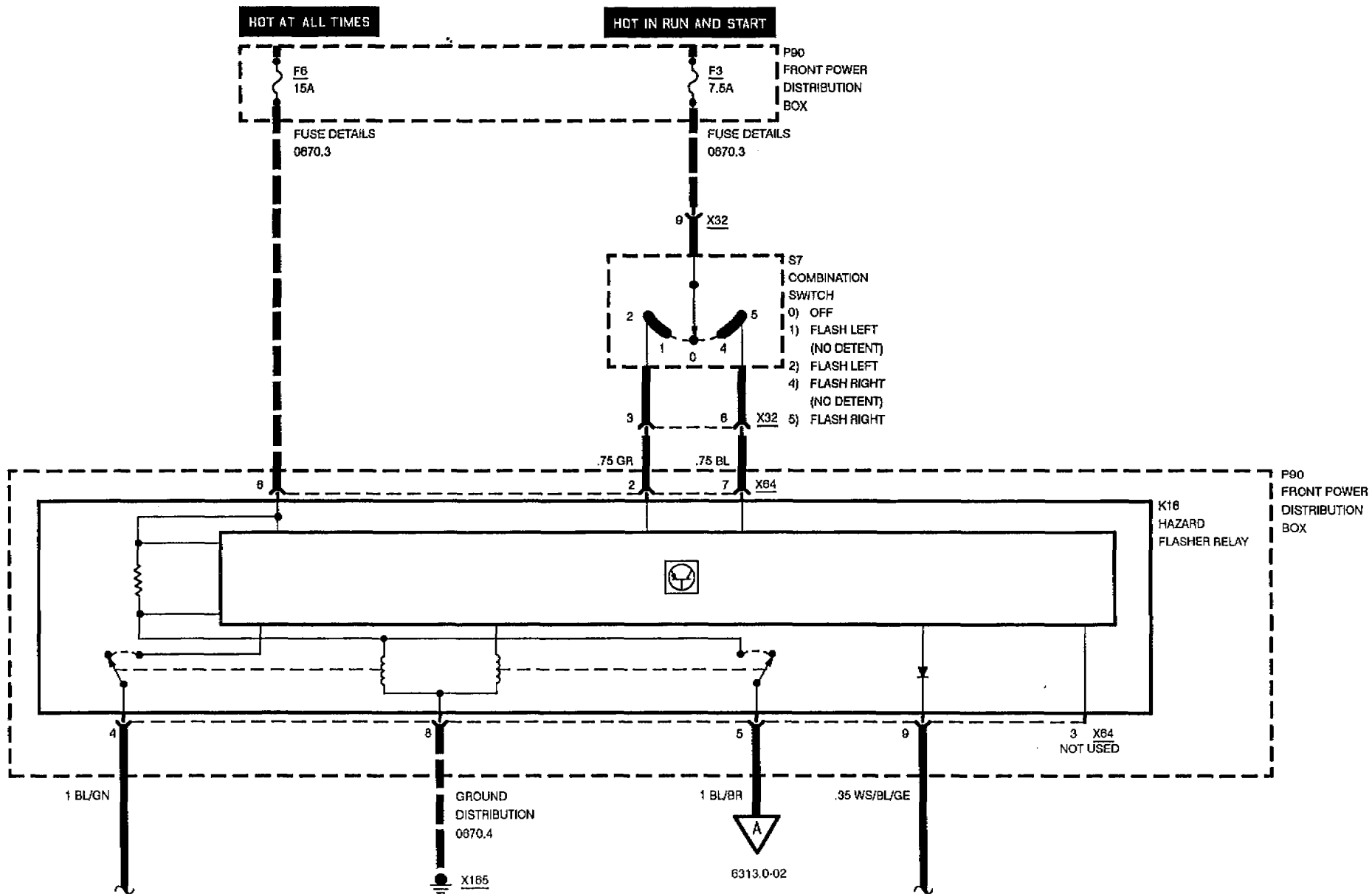


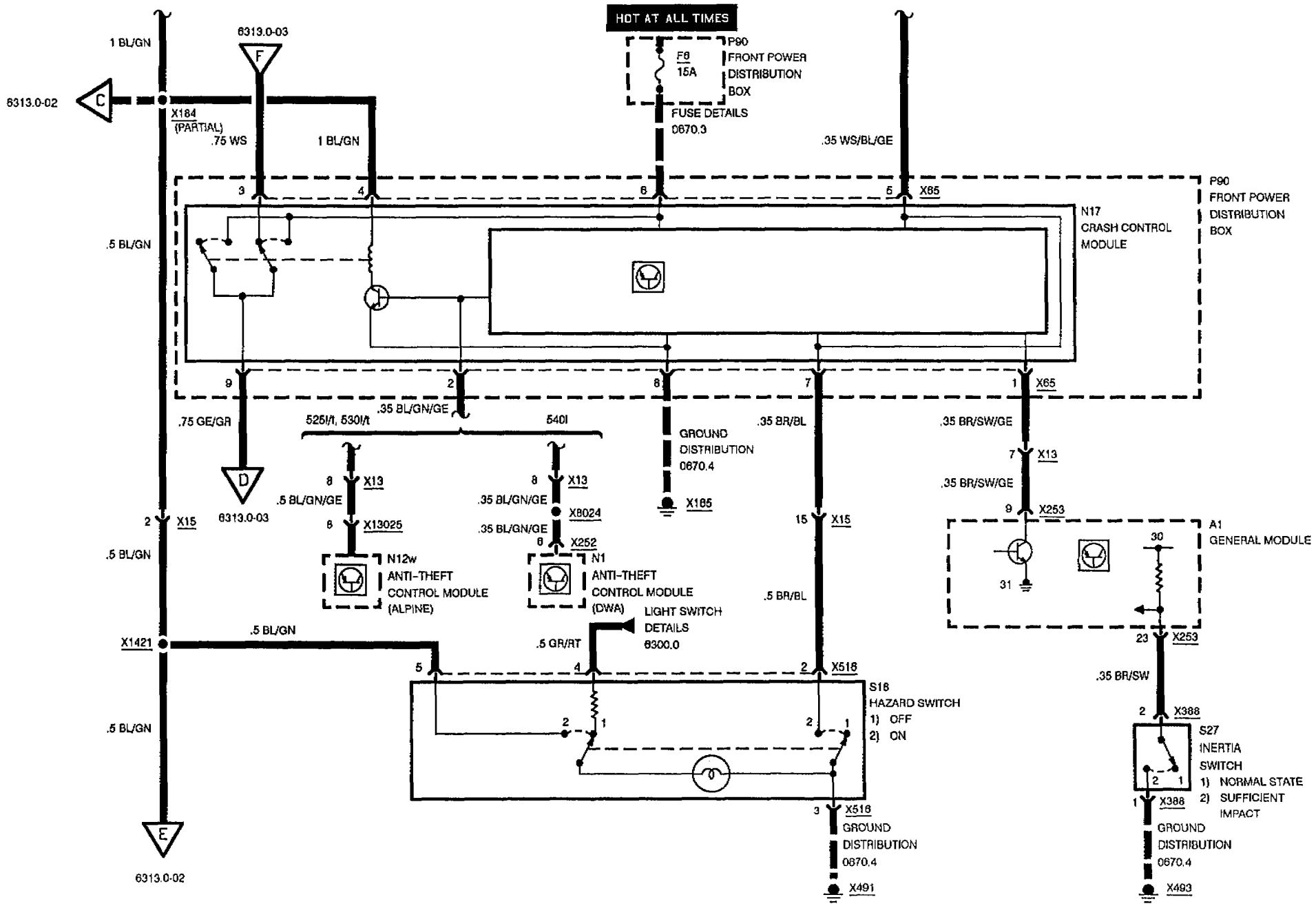
BMW  
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6313.0



# TURN/HAZARD LIGHTS

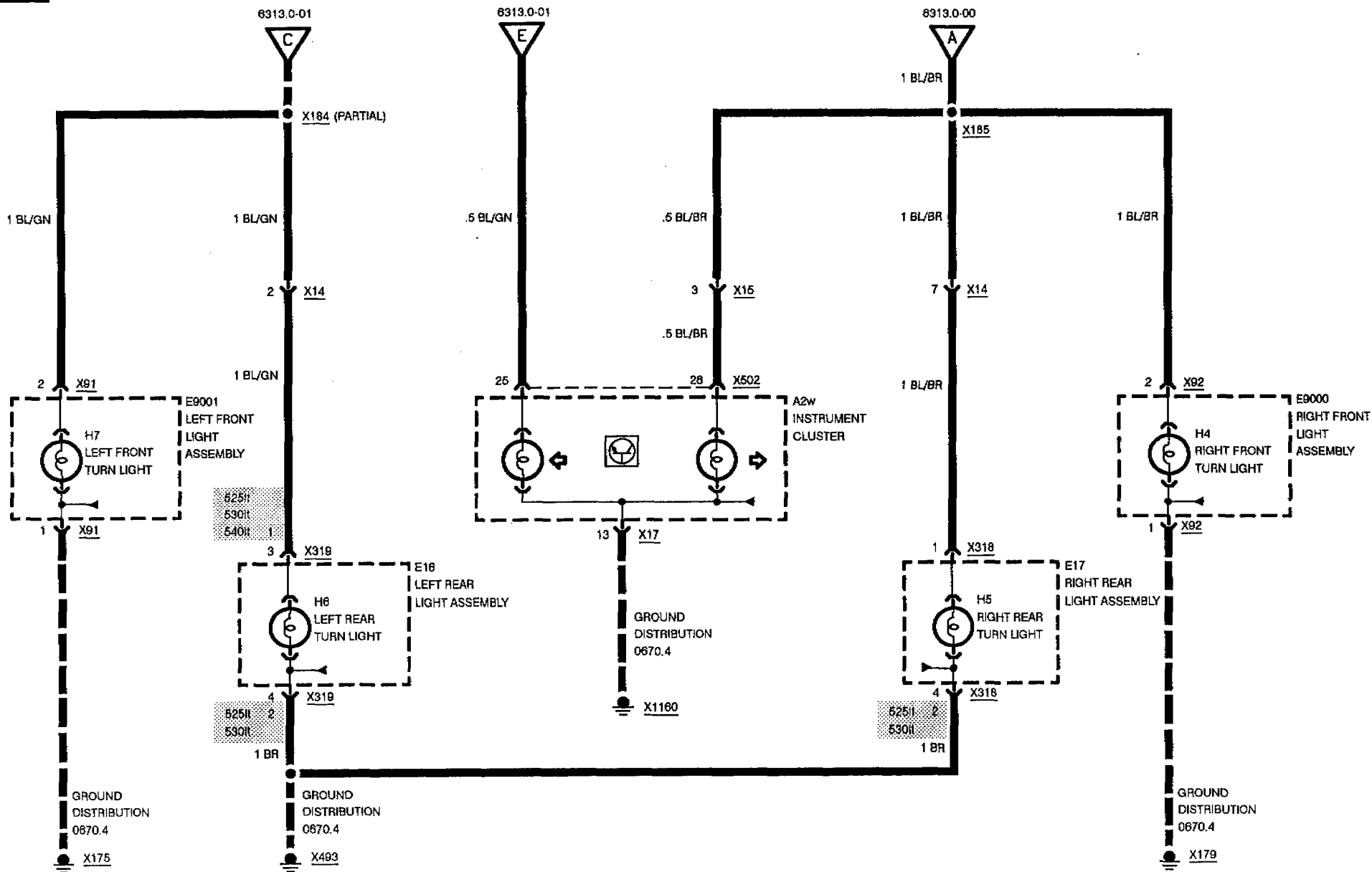




09/93  
 6313.0-01  
 1994



# TURN/HAZARD LIGHTS

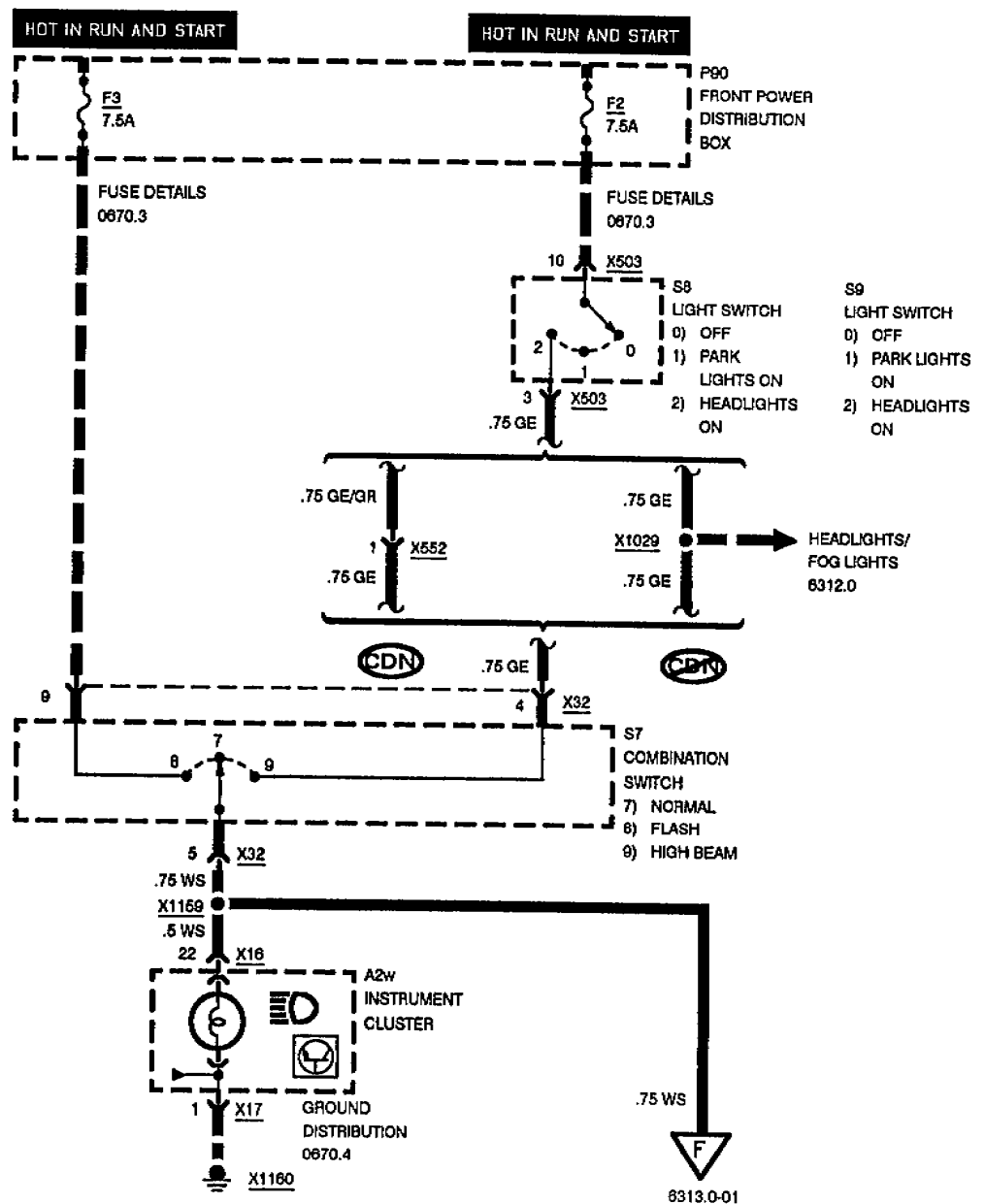
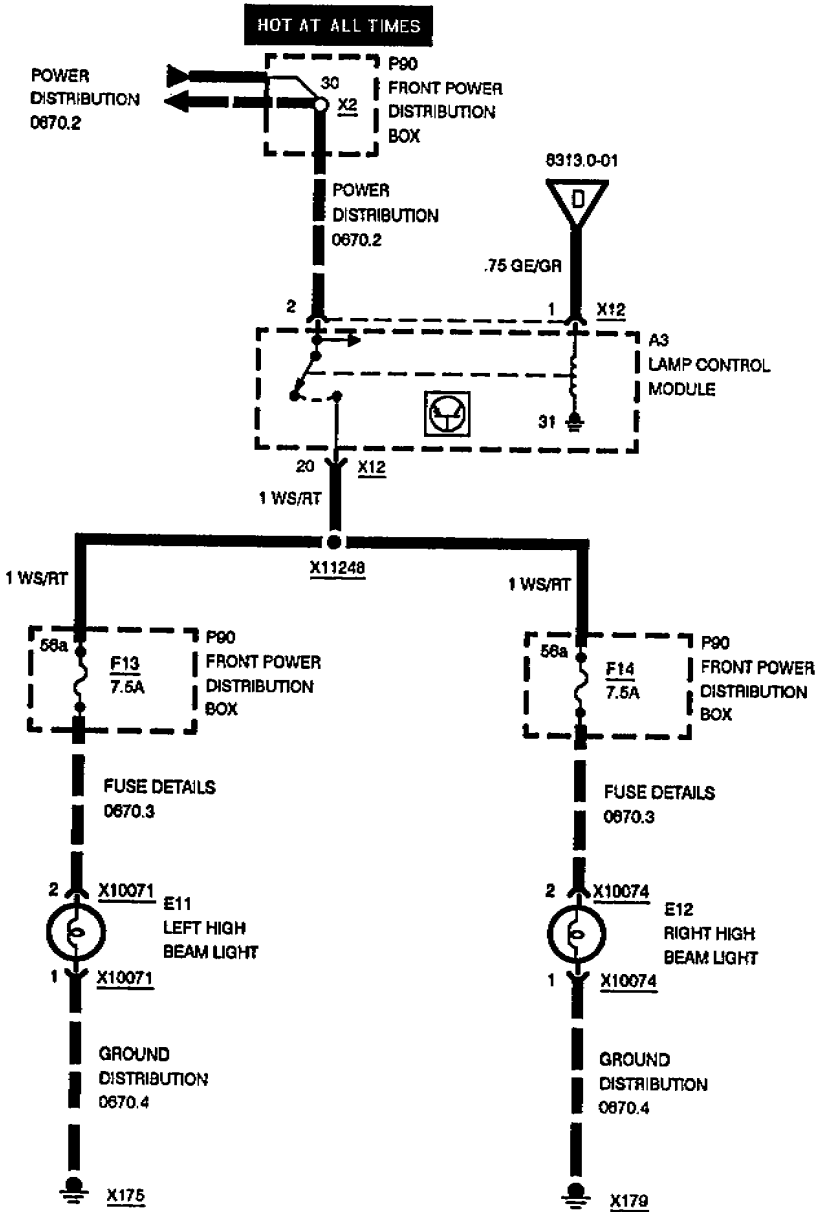


09/93

6313.0-02

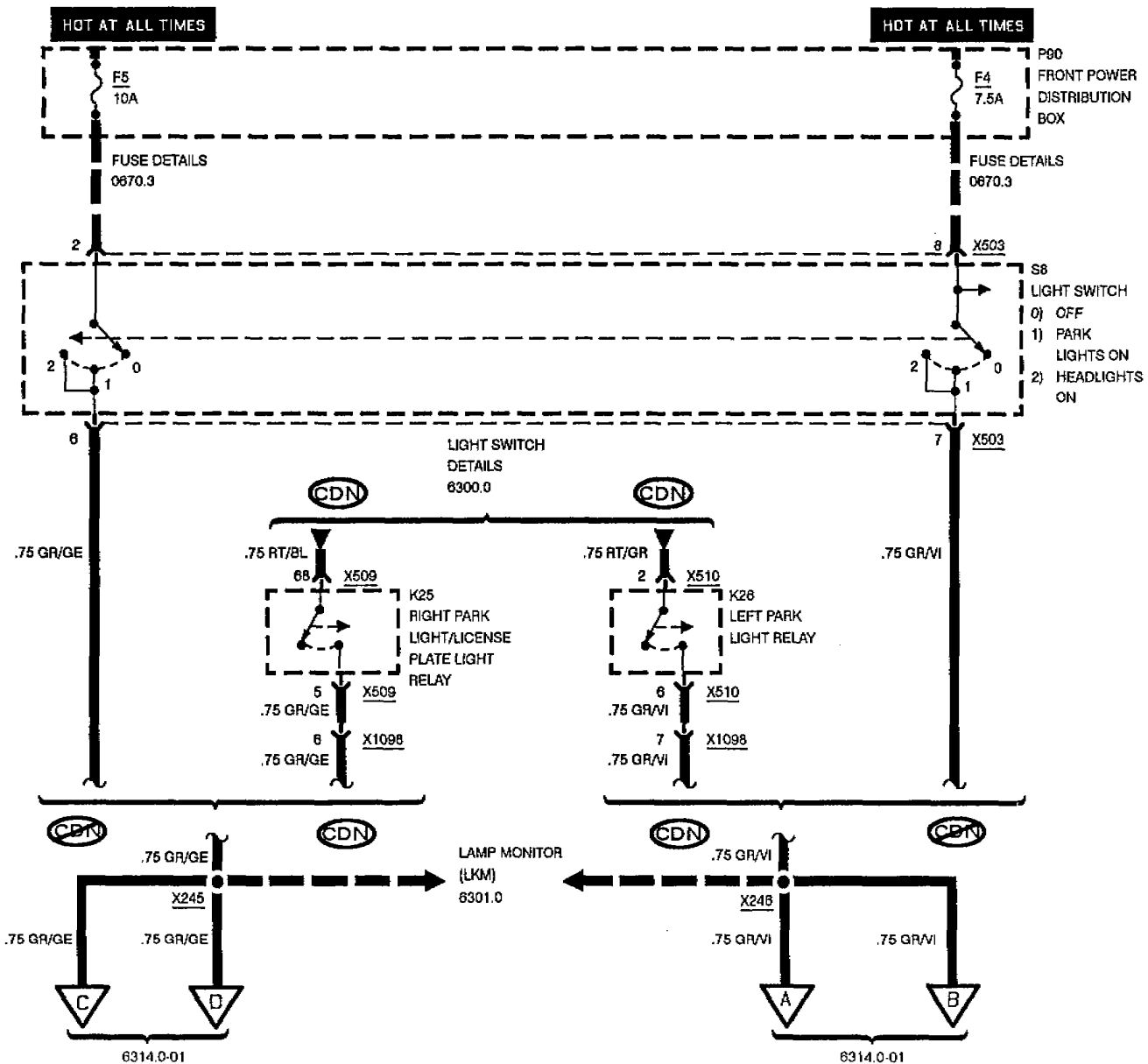
1994

# TURN/HAZARD LIGHTS





# PARK/TAIL LIGHTS

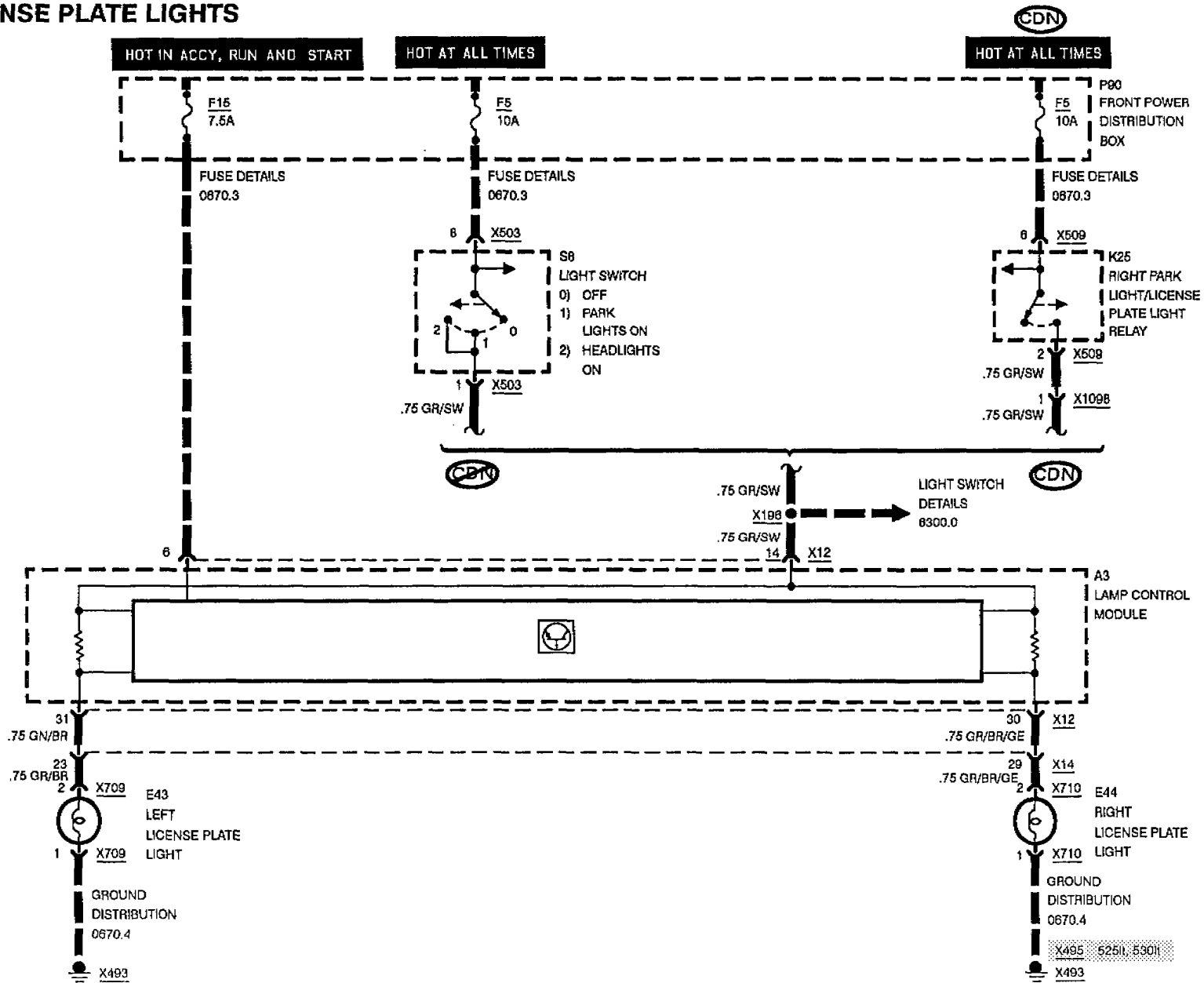






# LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

## LICENSE PLATE LIGHTS





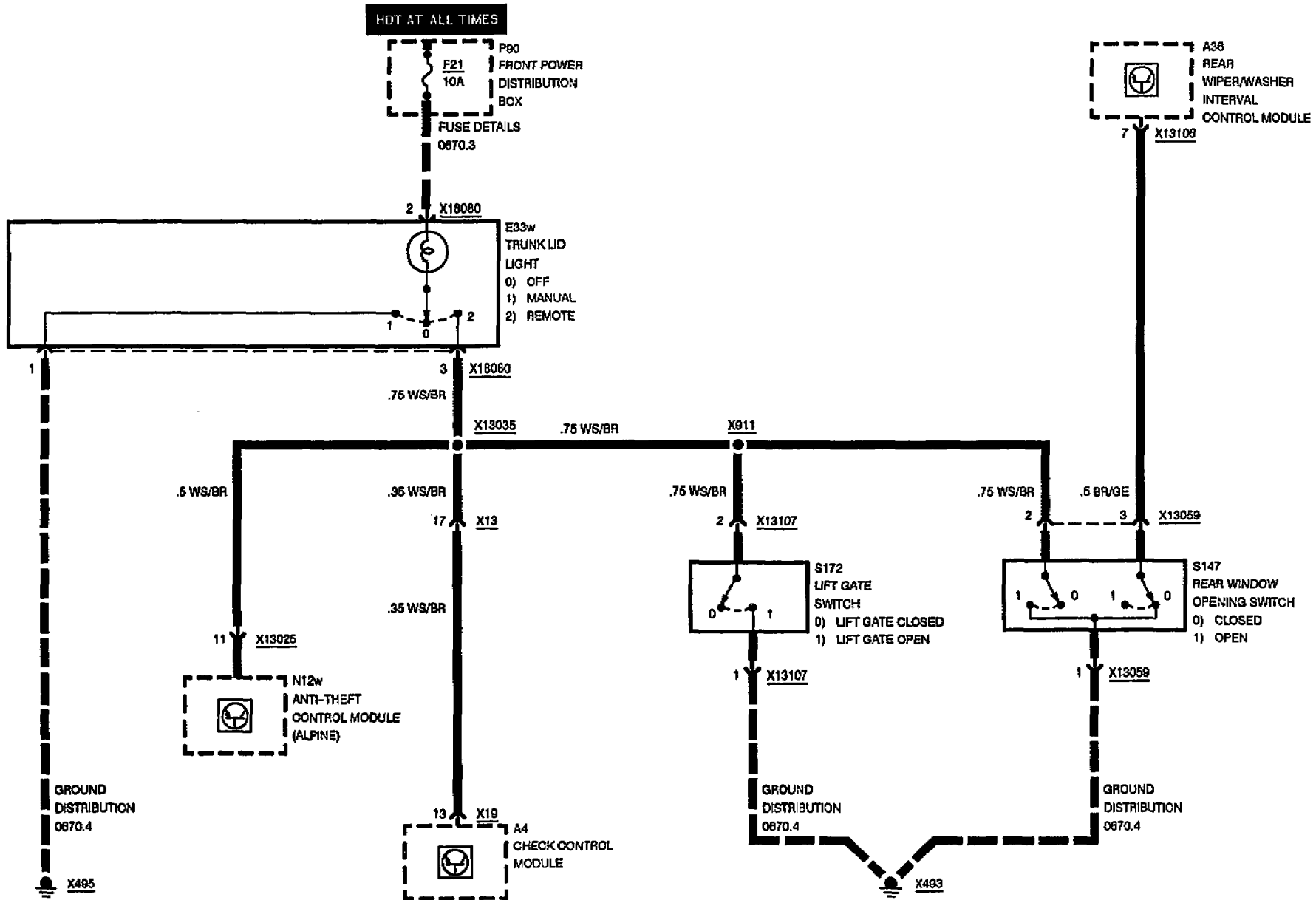




# LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

525it, 530it

## TRUNK LIGHTS



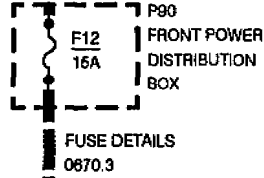
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6322.0

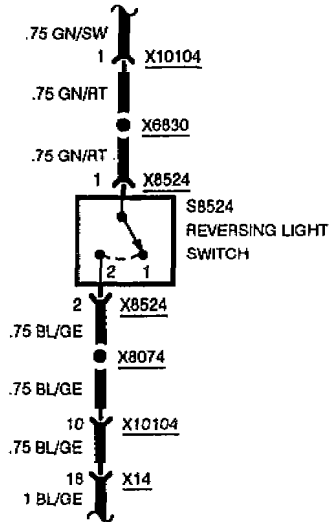


# BACK UP LIGHTS

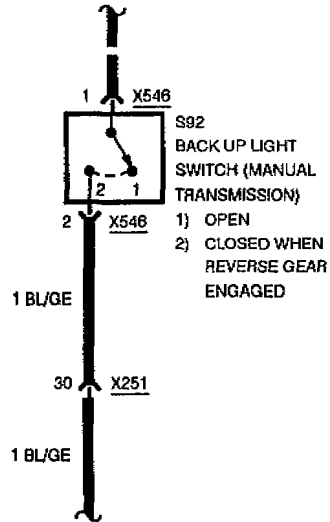
HOT IN RUN AND START



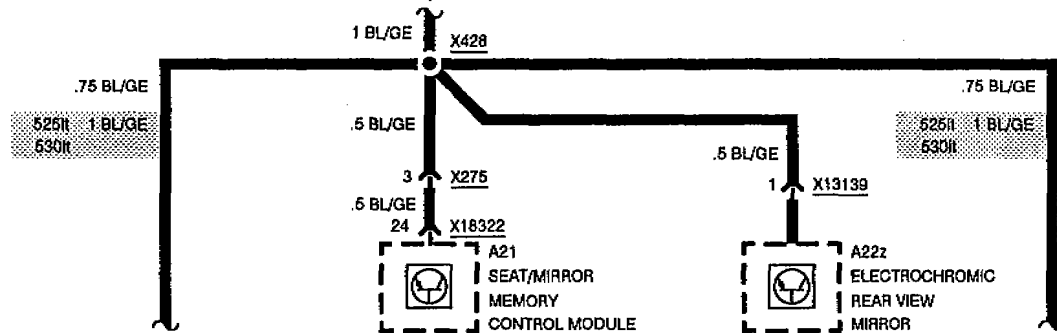
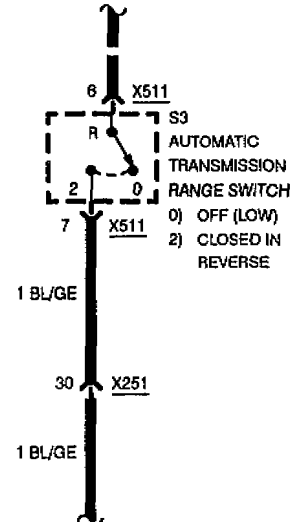
MANUAL  
TRANSMISSION  
530i, 540i

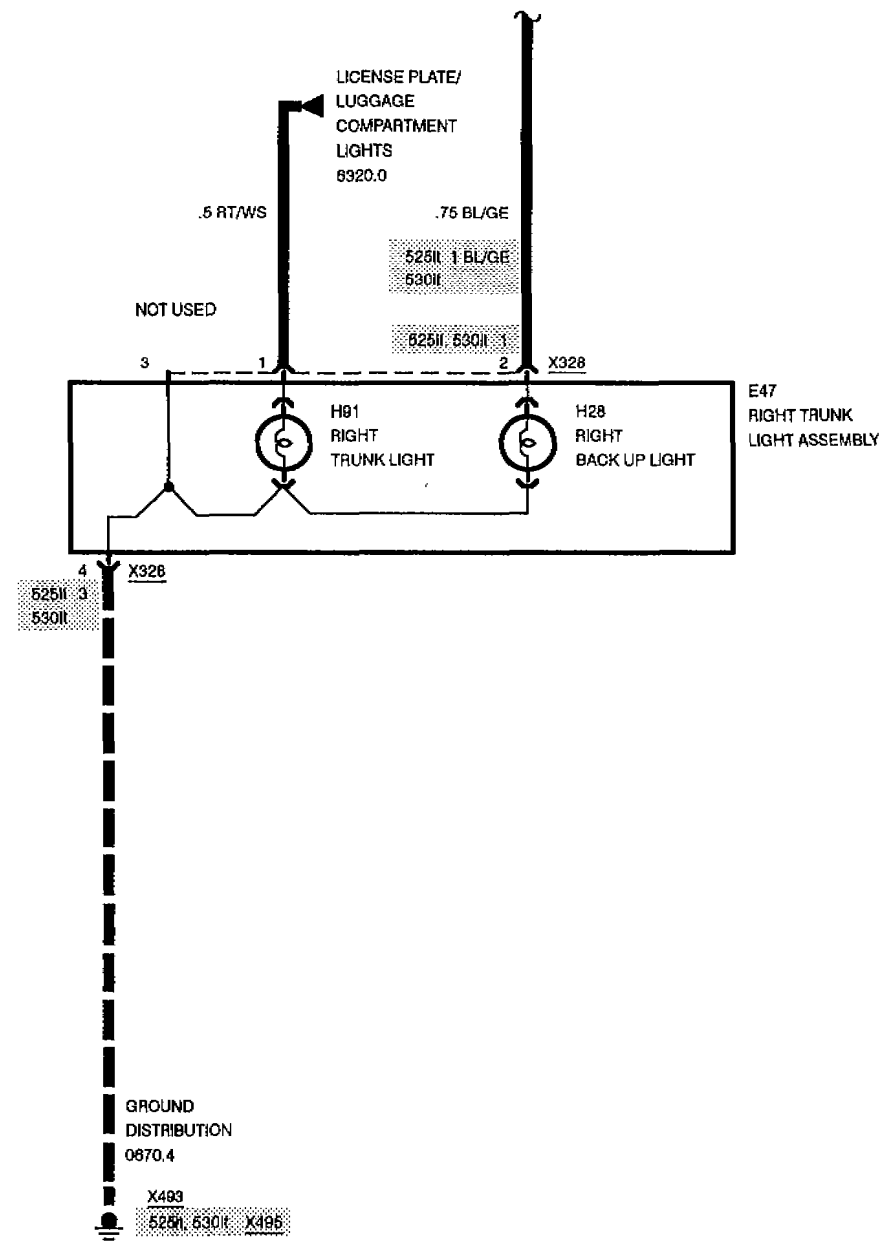
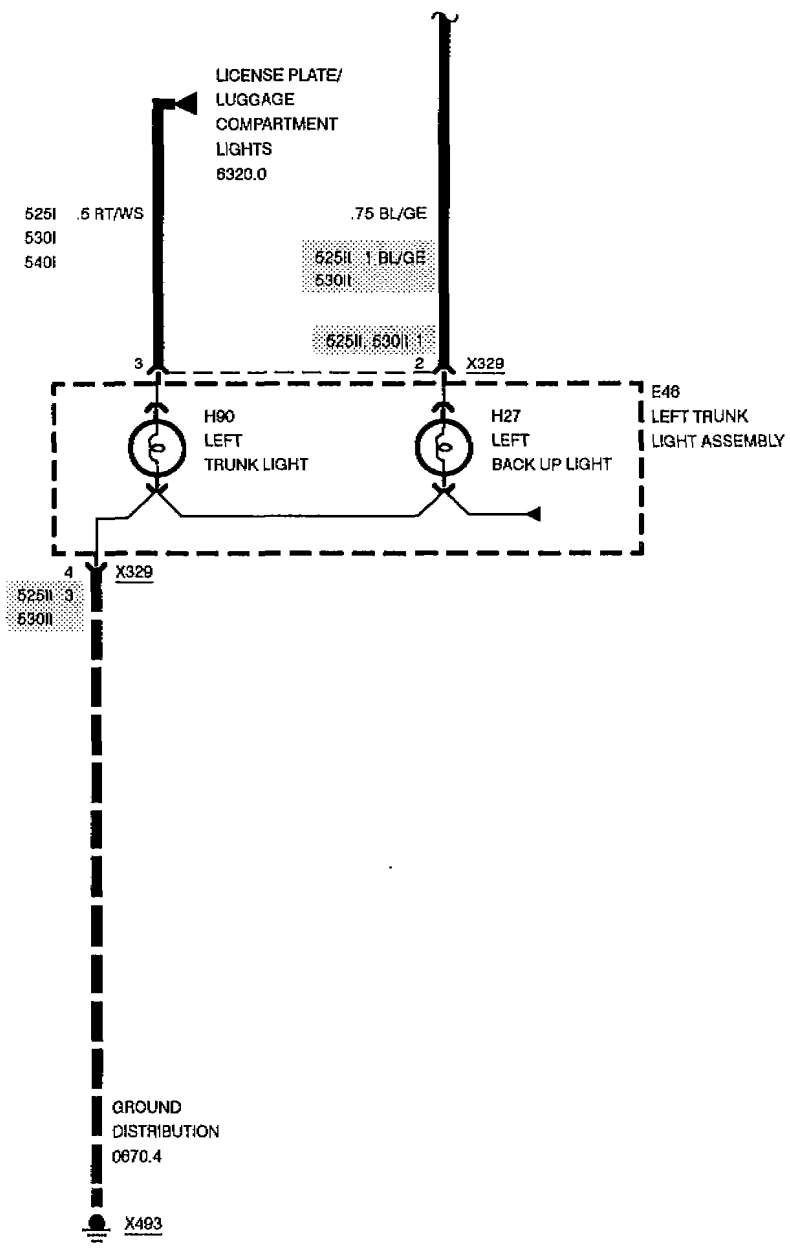


MANUAL  
TRANSMISSION  
525i

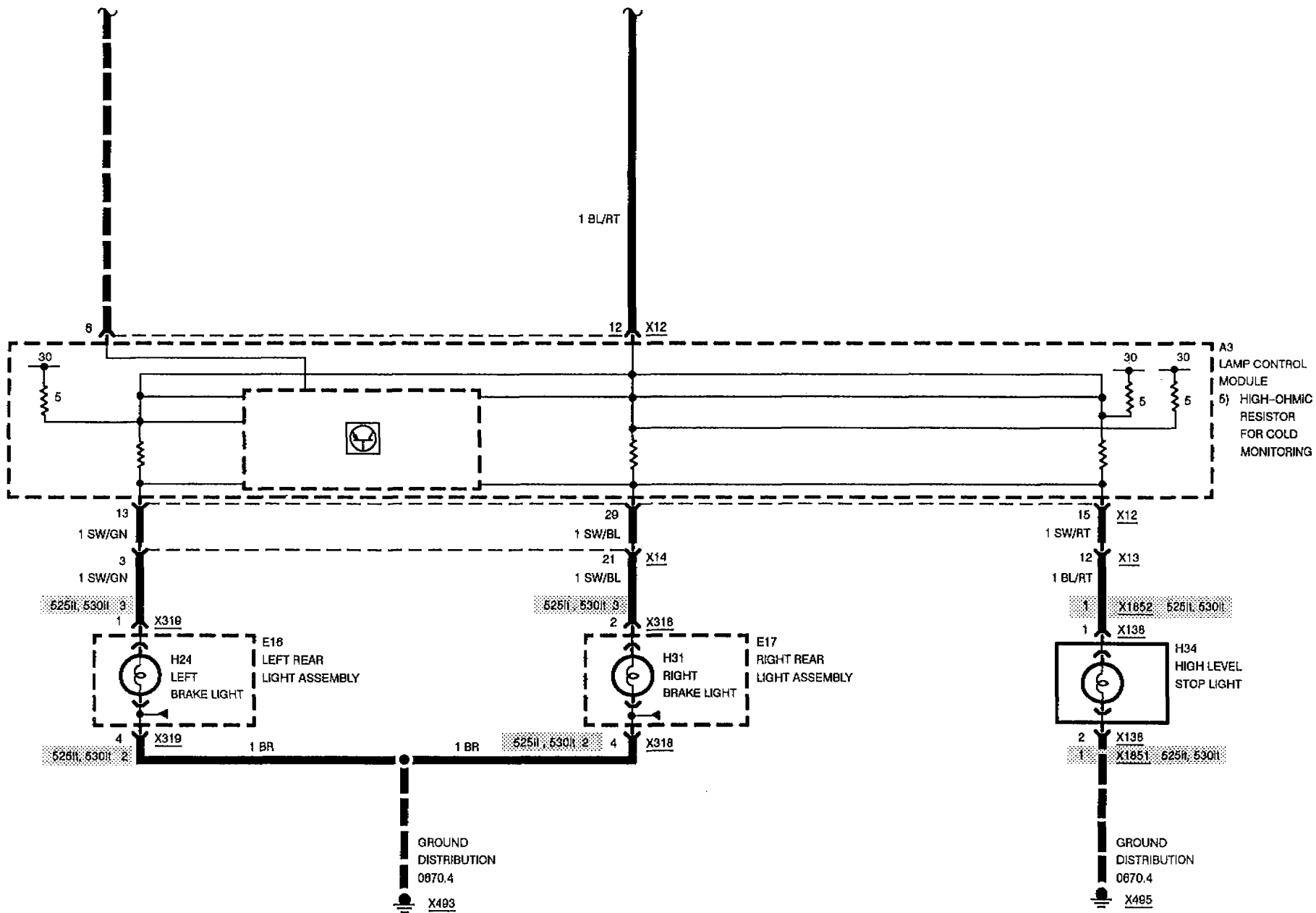


AUTOMATIC  
TRANSMISSION









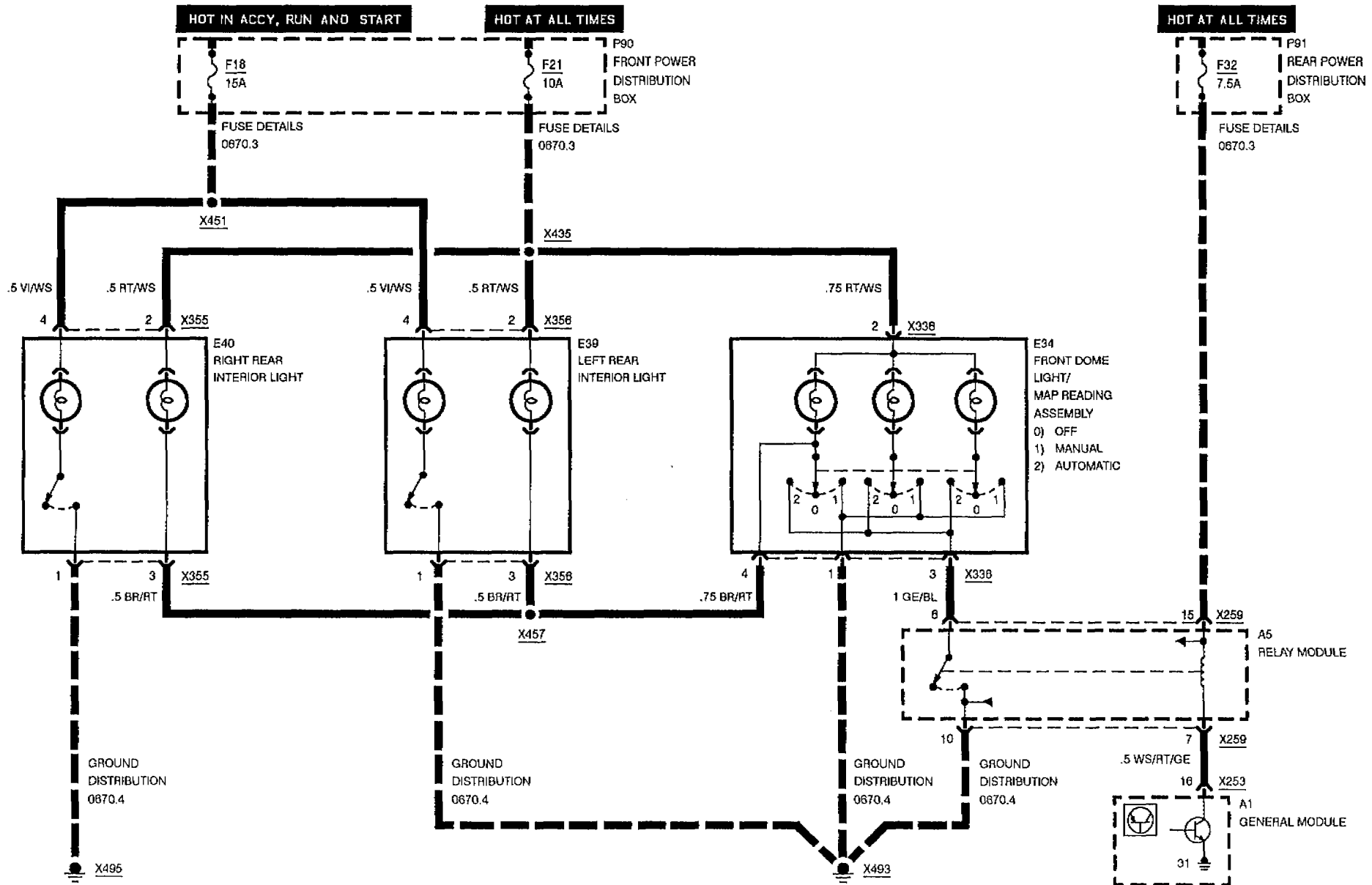


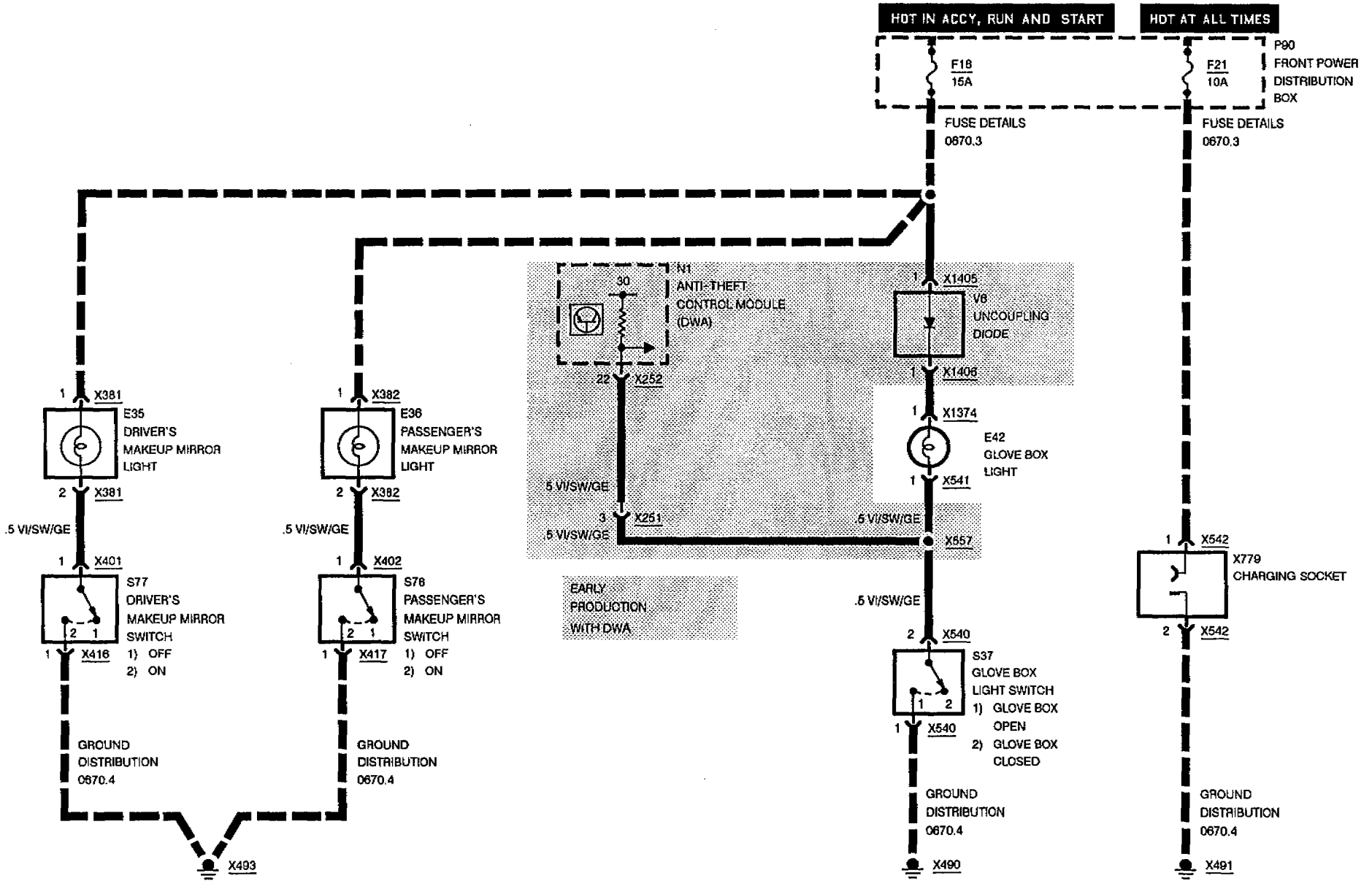




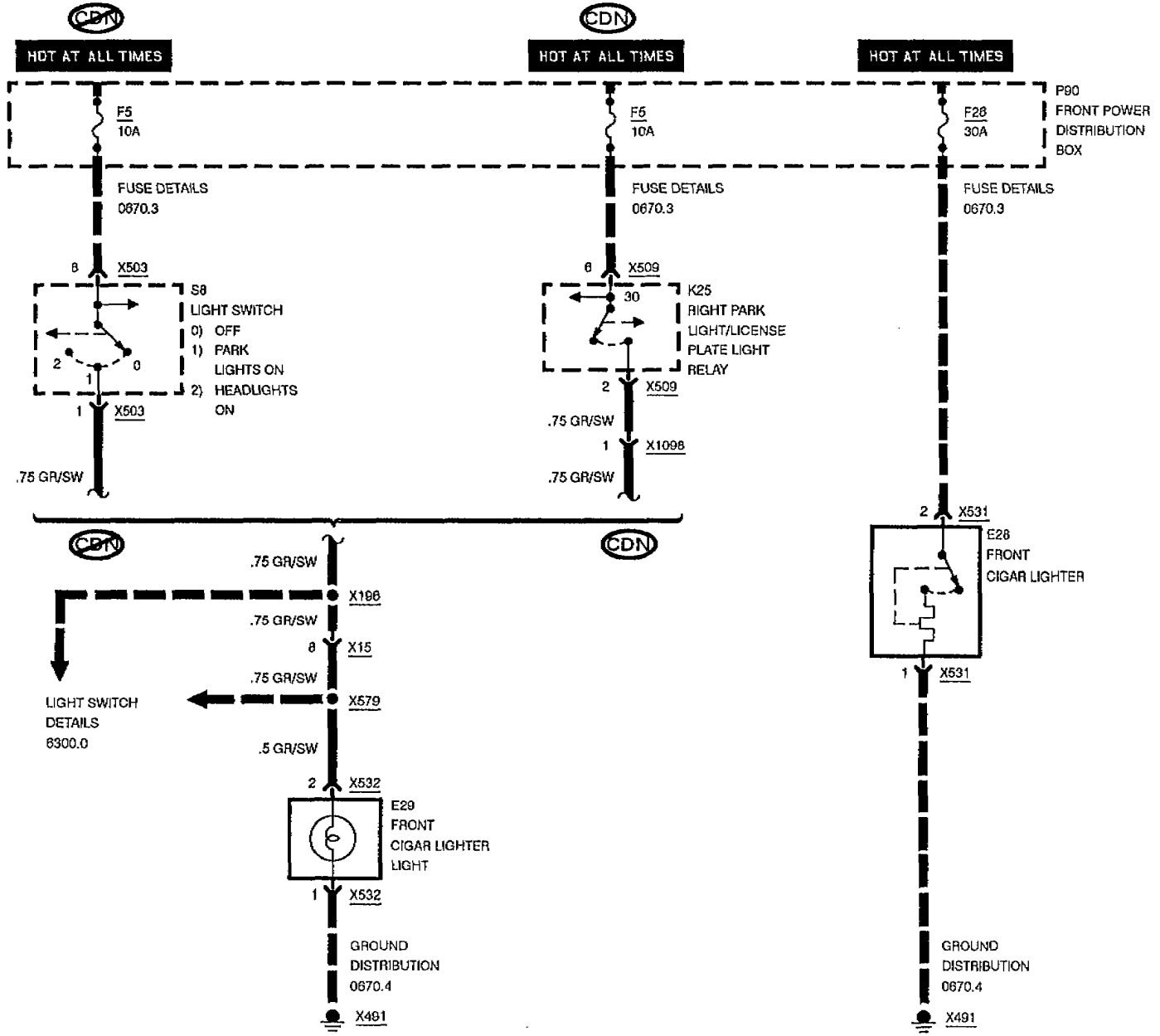
# ZKE INTERIOR LIGHTS CONTROL (IB)

## OUTPUT DETAILS



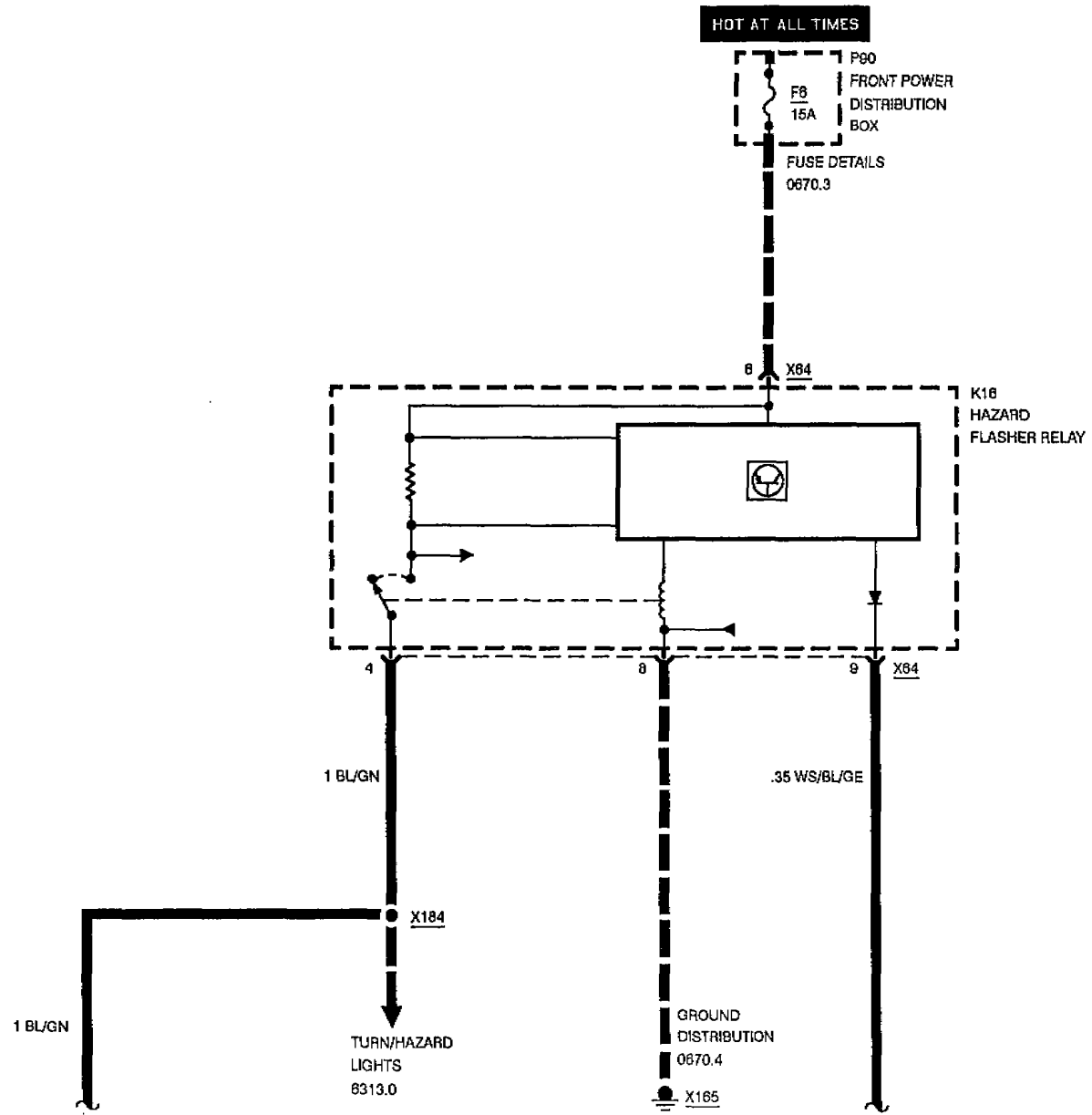


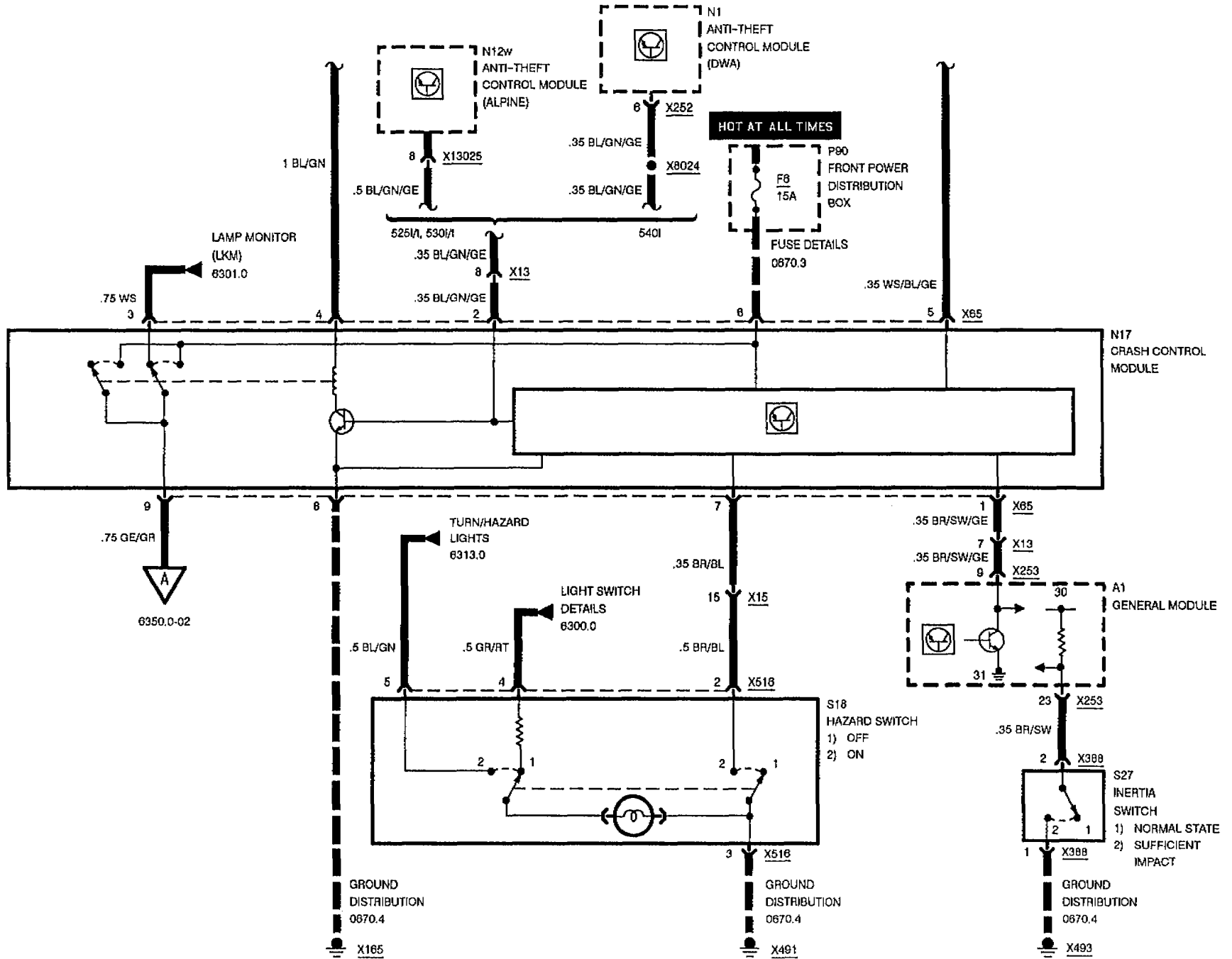
**BMW 5** INTERIOR ACCESSORIES





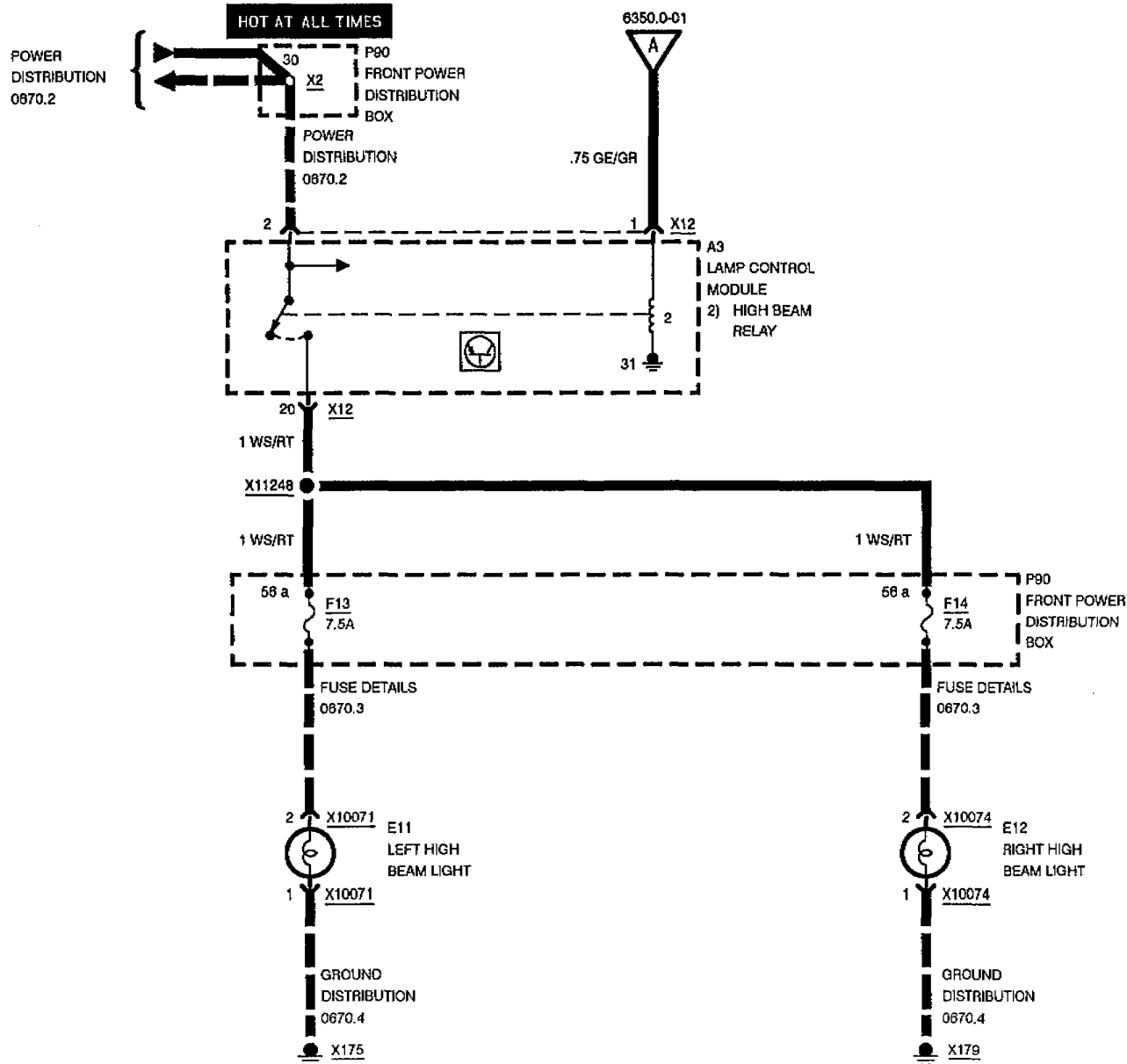
# CRASH CONTROL MODULE







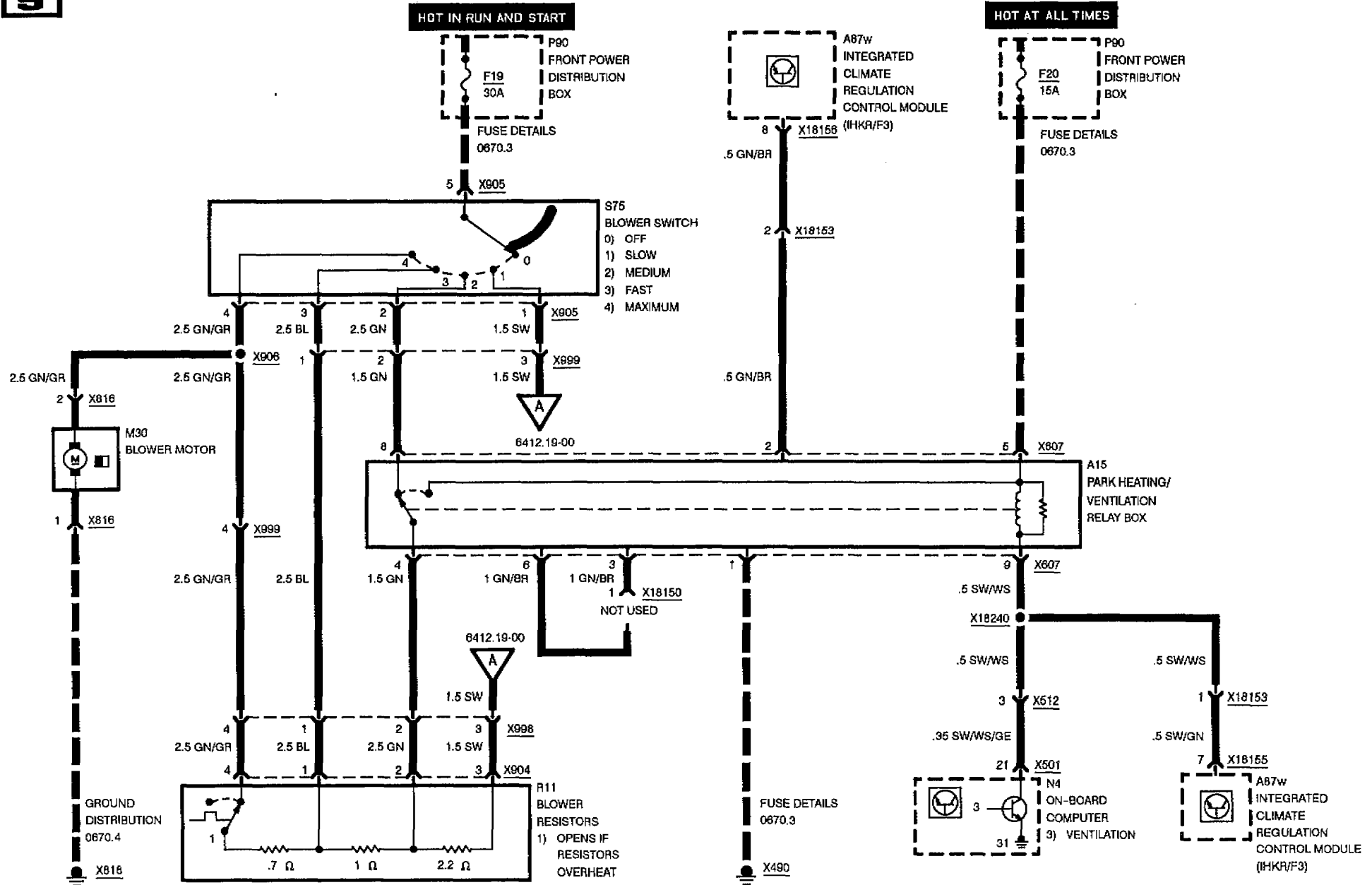
# CRASH CONTROL MODULE



BMW  
5

6412.19

# PARK VENTILATION WITH IHKR/F3

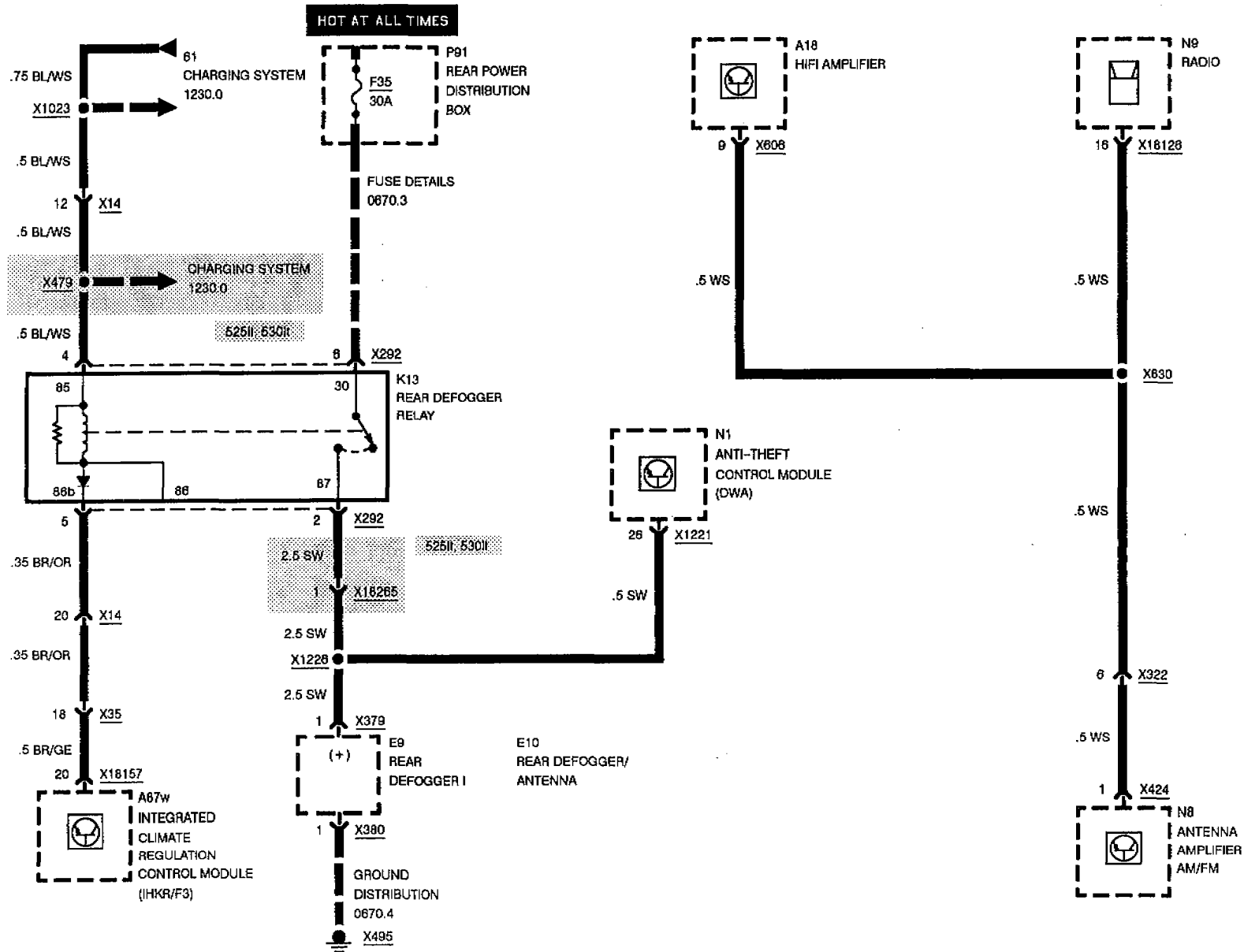








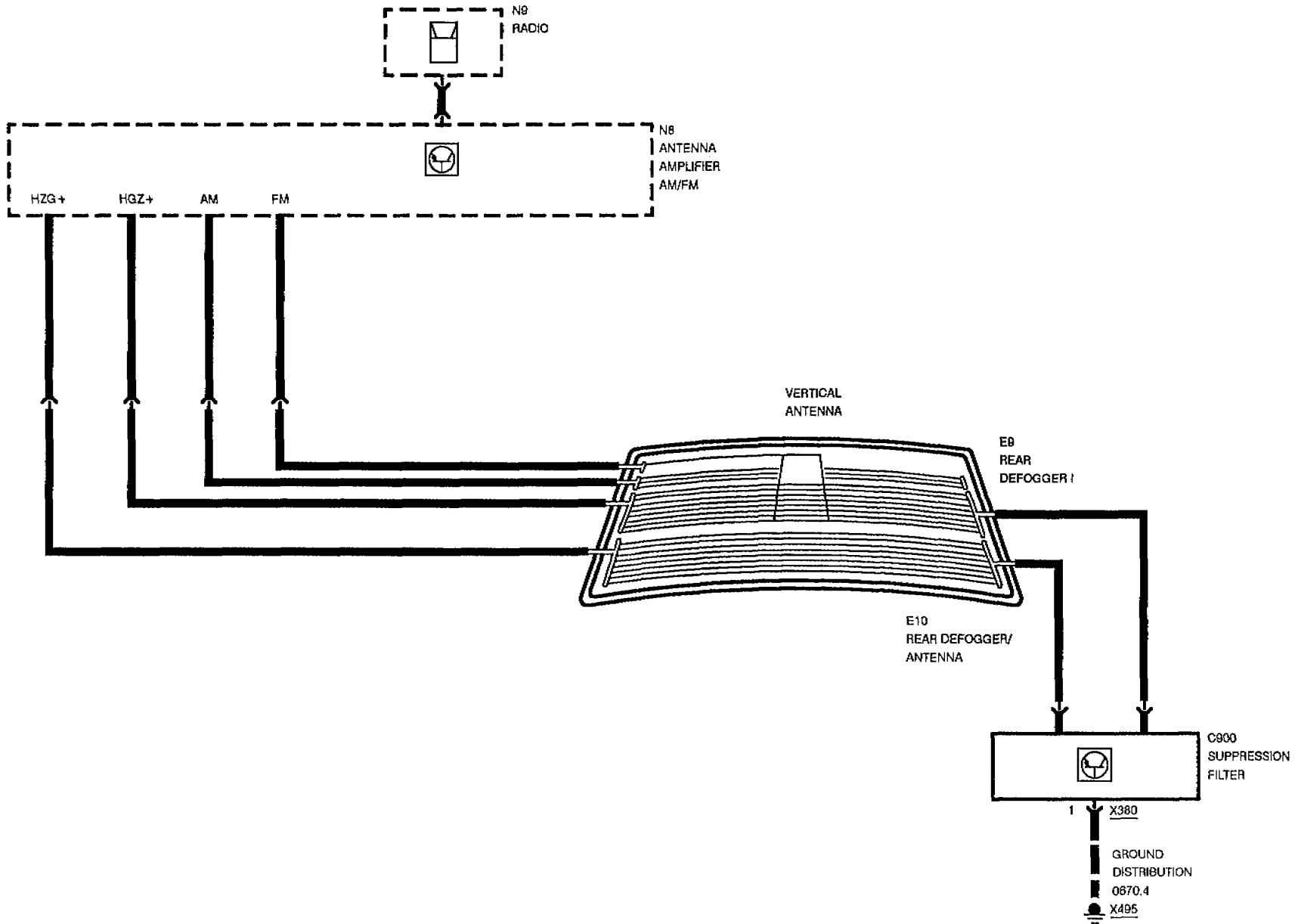
# REAR WINDOW DEFOGGER





# REAR WINDOW DEFOGGER

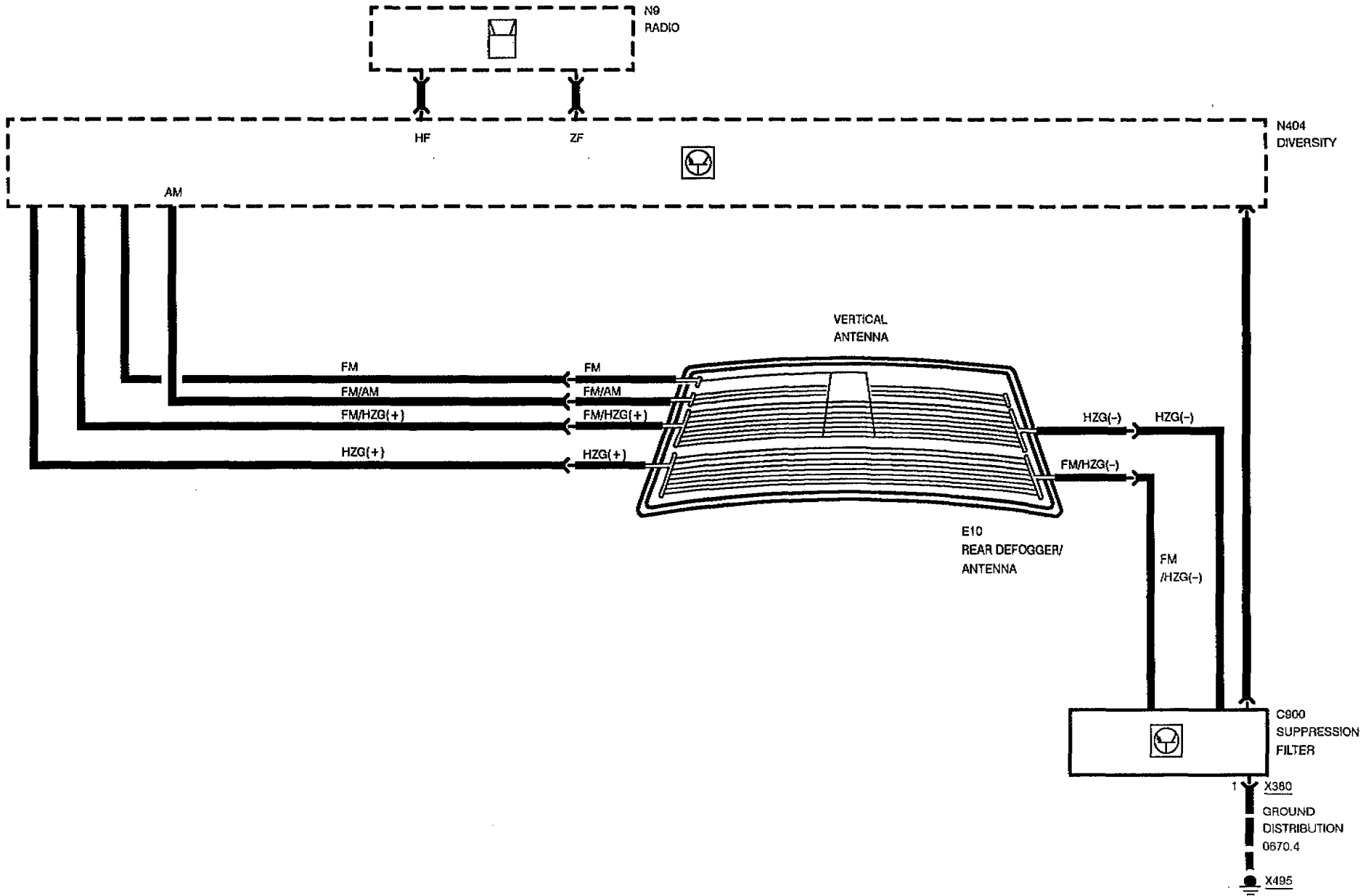
## REAR WINDOW ANTENNA

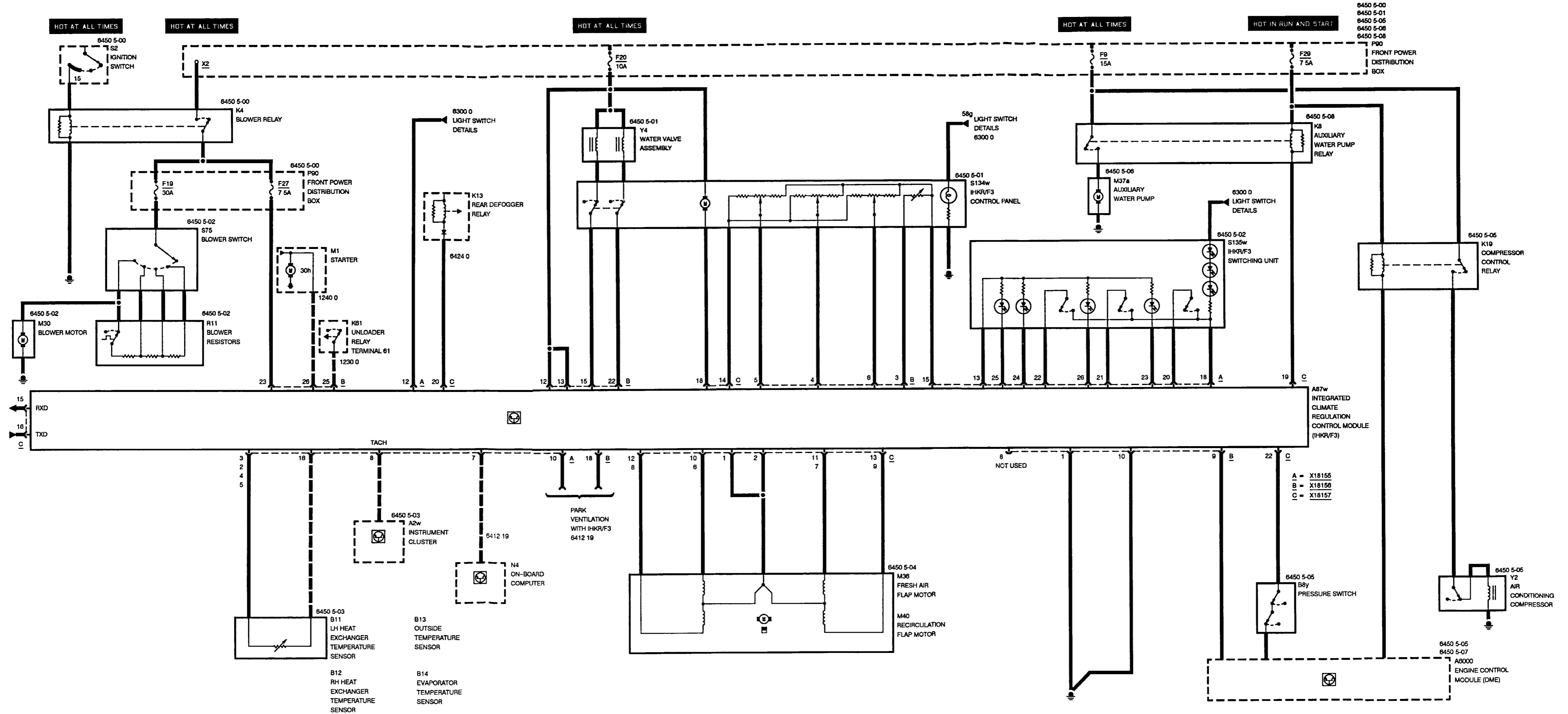


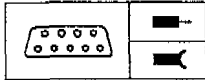


# REAR WINDOW DEFOGGER

## 3-ANTENNA-DIVERSITY







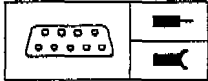
## Pin Assignments

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

### X18155

Pin	Type	Description/ Function	Connection
1		Not used	
2	E	Heater temperature, right	Heat exchanger temperature sensor, RH
3	E	Heater temperature, left	Heat exchanger temperature sensor, LH
4	E	Outside temperature	Outside temperature sensor
5	E	Evaporator temperature	Evaporator temperature sensor
6		Not used	
7	E	Independent ventilation	Park heating/ventilation relay box
8	E	Vehicle speed	Instrument cluster
9		Not used	
10	E	Independent heating	Park heating/ventilation relay box
11		Not used	
12	E	Terminal 58k	Light switch
13	A	Voltage supply for function lights	IHKR/F3 switching unit
14		Not used	
15	M	Ground for control wheels and inside temperature sensor	IHKR/F3 control switch
16	M	Ground for temperature sensors	Various temperature sensors
17		Not used	
18	M	Ground for illumination and switches	IHKR/F3 switching unit
19		Not used	
20	E	Push button for air conditioning	IHKR/F3 switching unit
21	E	Push button for air recirculation	IHKR/F3 switching unit
22	E	Push button for rear window defogger	IHKR/F3 switching unit
23	A	Function light, air conditioning	IHKR/F3 switching unit
24	A	Function light, rear window defogger	IHKR/F3 switching unit

E = Input, A = Output, M = Ground



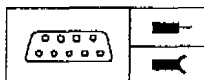
## Pin Assignments

Pin	Type	Description/ Function	Connection
25	A	Function light, air recirculation	IHKR/F3 switching unit
26	A	Function light, air recirculation control	IHKR/F3 switching unit

### X18156

Pin	Type	Description/ Function	Connection
1	E	Ground for electronics	Ground point
2		Not used	
3	E	Inside temperature sensor	IHKR/F3 control switch
4	E	Nominal air flow value	IHKR/F3 control switch
5	E	Nominal temperature value, left	IHKR/F3 control switch
6	E	Nominal temperature value, right	IHKR/F3 control switch
7		Not used	
8		Not used	
9	A	Auxiliary fan signal	Engine control module (DME)
10	M	Ground for electronics	Ground point
11		Not used	
12	E	Voltage supply (terminal 30)	Front power distribution box
13	E	Voltage supply (terminal 30)	Front power distribution box
14		Not used	
15	A	Water valve activation, right	IHKR/F3 control switch
16		Not used	
17		Not used	
18	E	Terminal 15 (independent ventilation only)	
19		Not used	
20		Not used	
21		Not used	
22	A	Water valve activation	IHKR/F3 control switch
23	E	Voltage supply (terminal 15)	Front power distribution box
24		Not used	
25	E	Terminal 61	Unloader relay terminal 61
26	E	Terminal 30h	Starter

E = Input, A = Output, M = Ground



## Pin Assignments

### X18157

Pin	Type	Description/ Function	Connection
1	A	Voltage supply for flap motors	All flap motors
2	A	Voltage supply for flap motors	All flap motors
3		Not used	
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 control wheels	IHKR/F3 control switch
15	E	RxD diagnostic data line	Data link connector RxD
16	E/A	TxD diagnostic data line	Data link connector TxD
17		Not used	
18	A	Sensor for activation	IHKR/F3 control switch
19	A	Auxiliary water pump activation	Auxiliary water pump relay
20	A	Rear window defogger activation	Rear defogger relay
21		Not used	
22	A	A/C compressor activation	Pressure switch
23		Not used	
24		Not used	
25		Not used	
26		Not used	

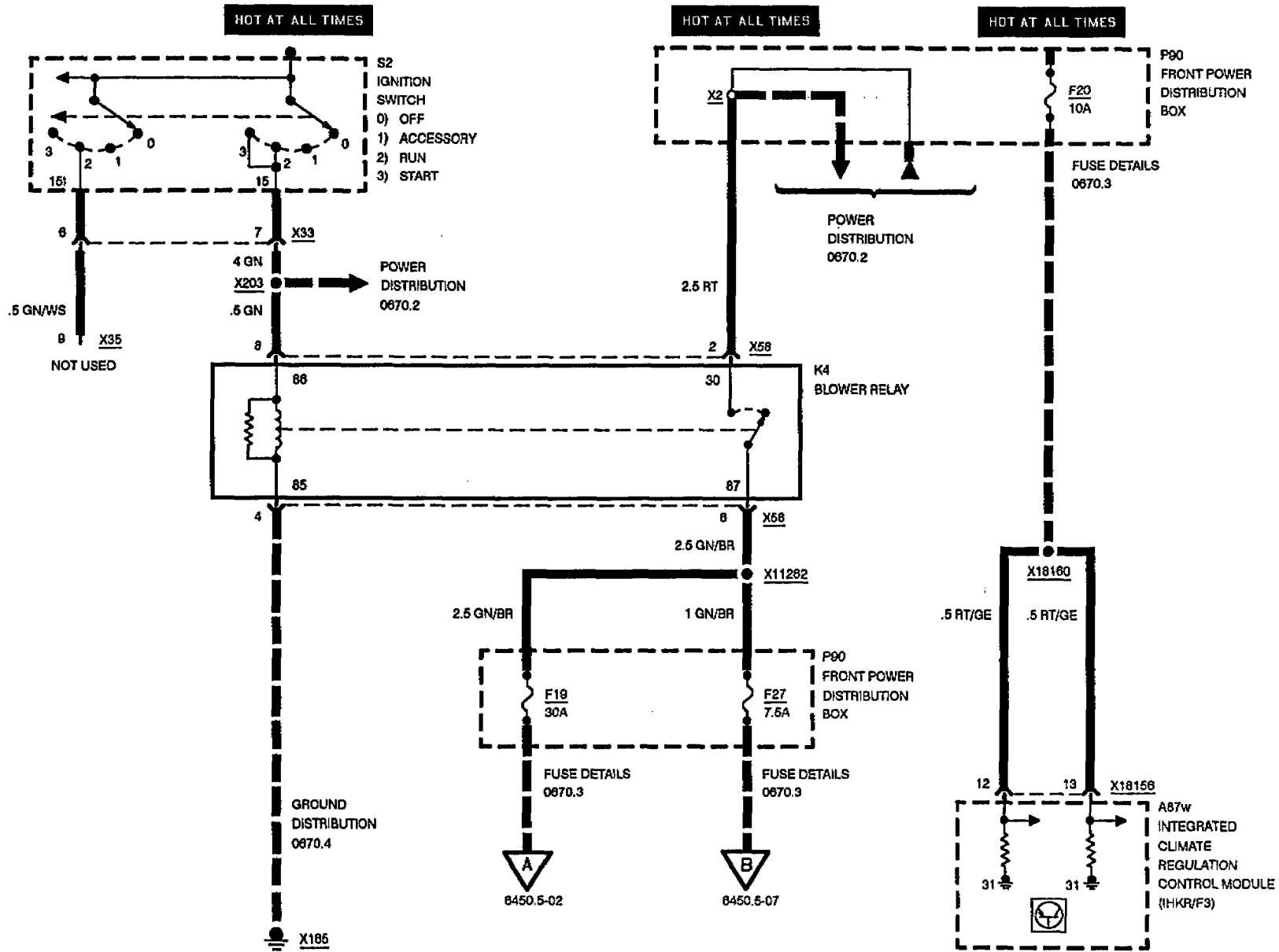
E = Input, A = Output, M = Ground



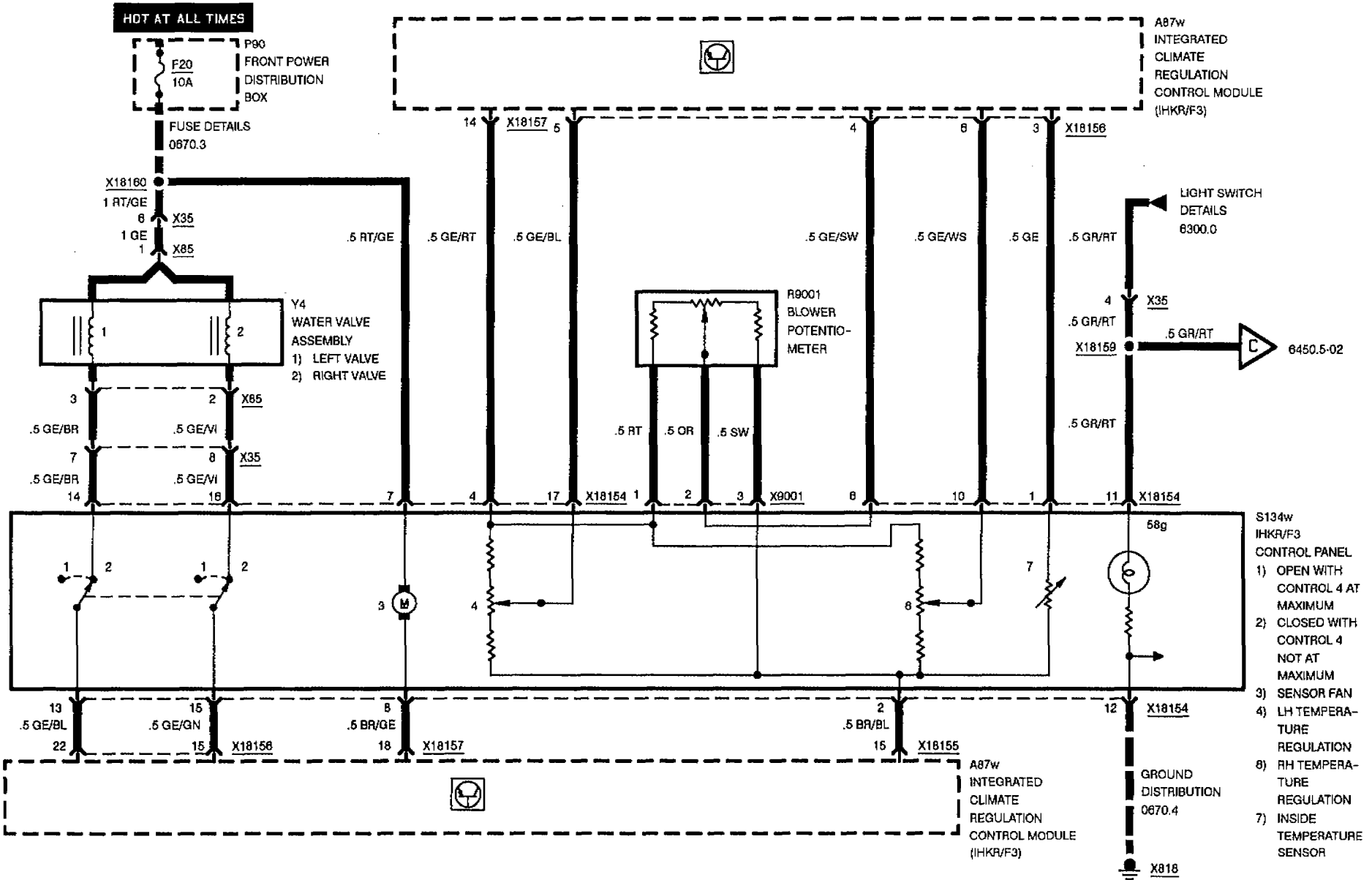


# INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

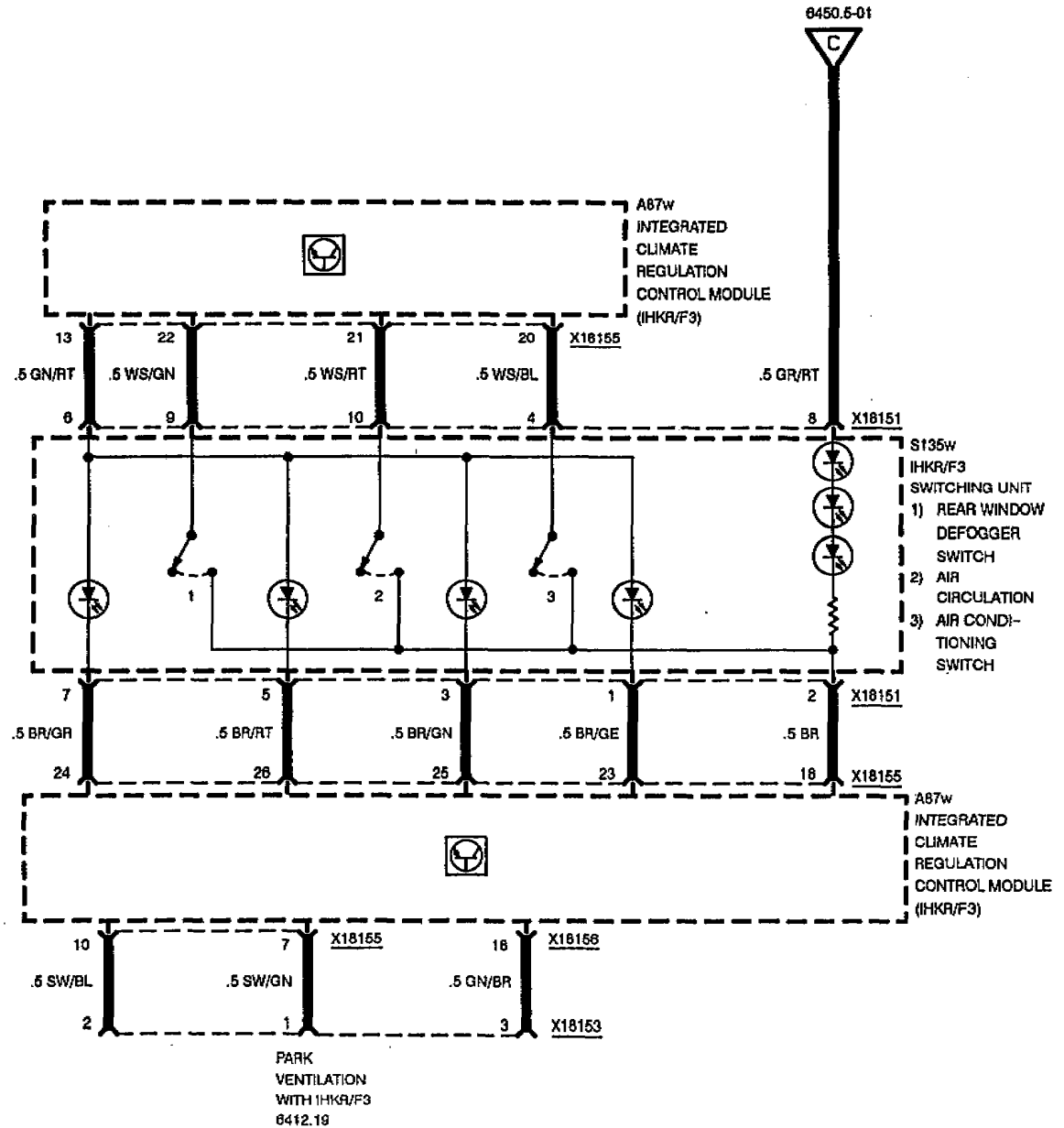
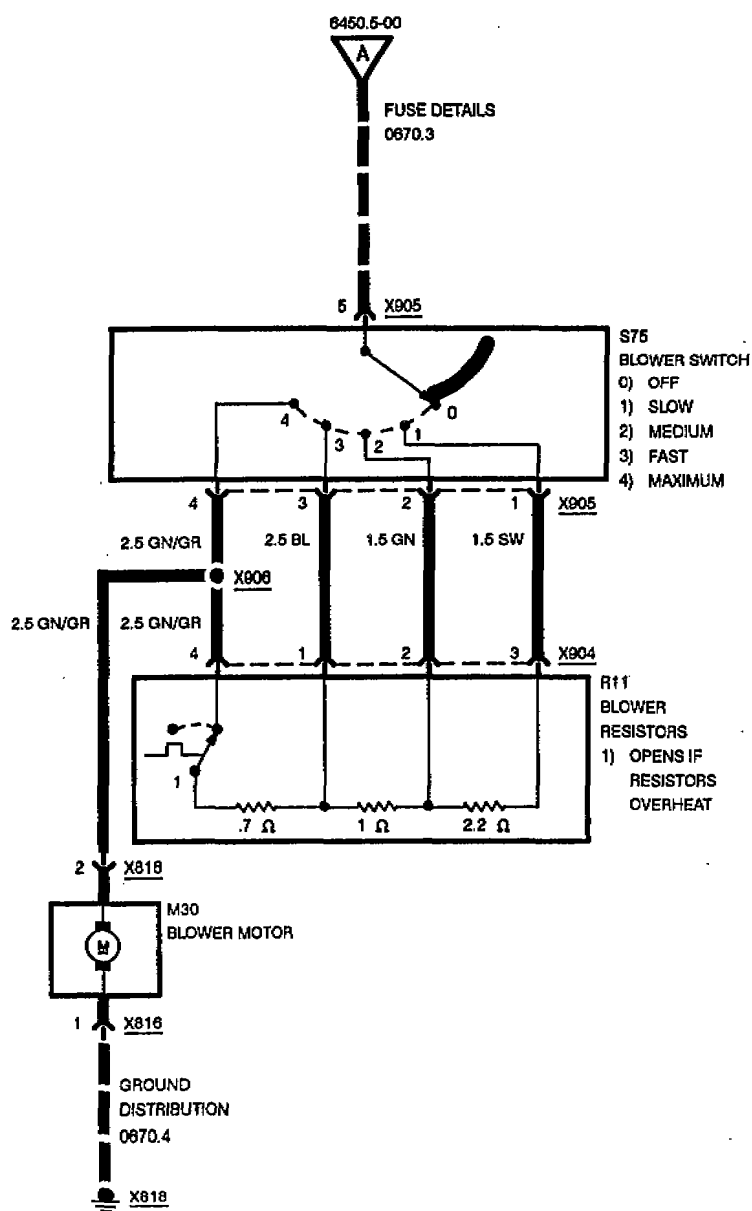
## POWER



**INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)**

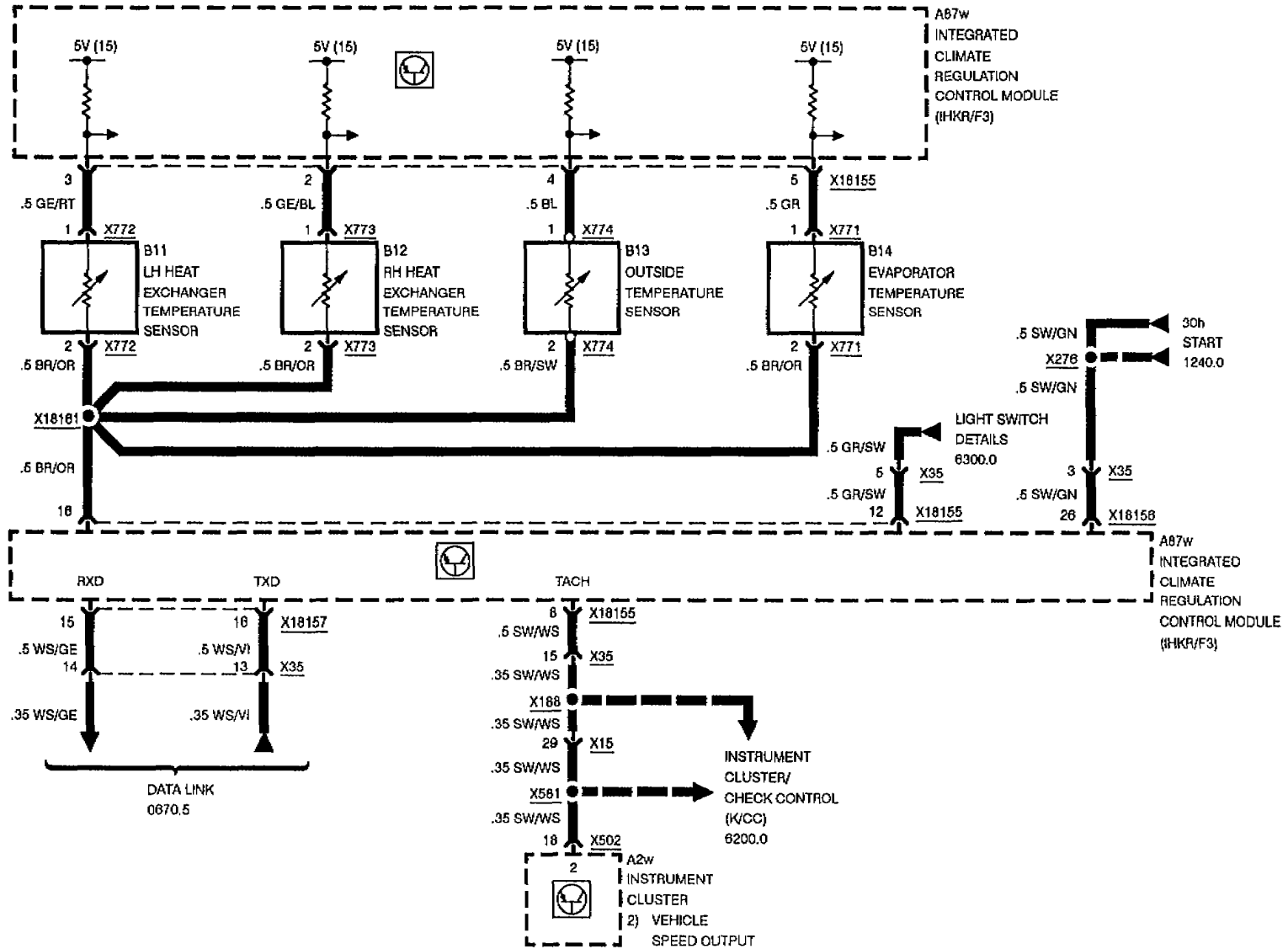


# INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)





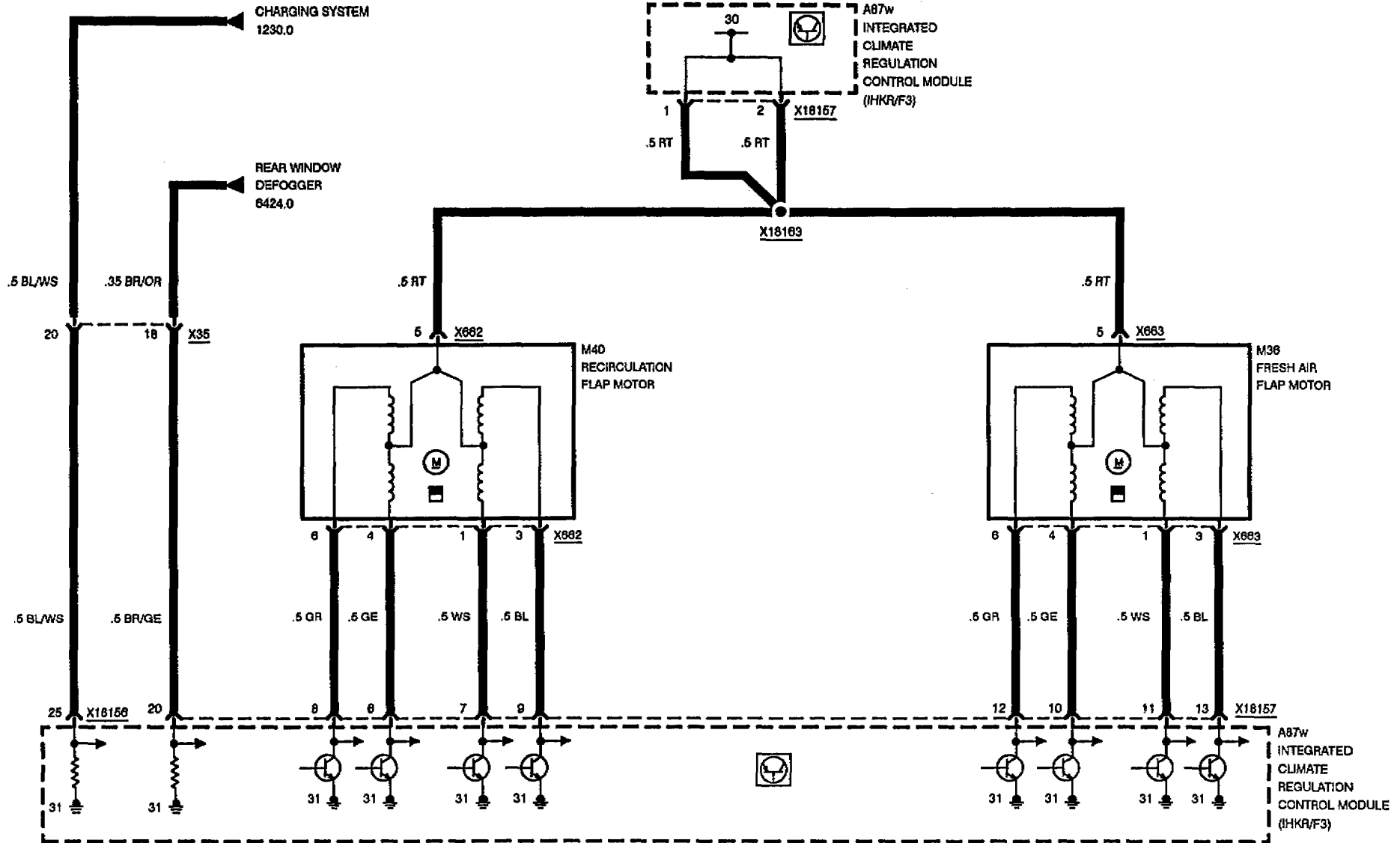
# INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3) TEMPERATURE CONTROLS





# INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

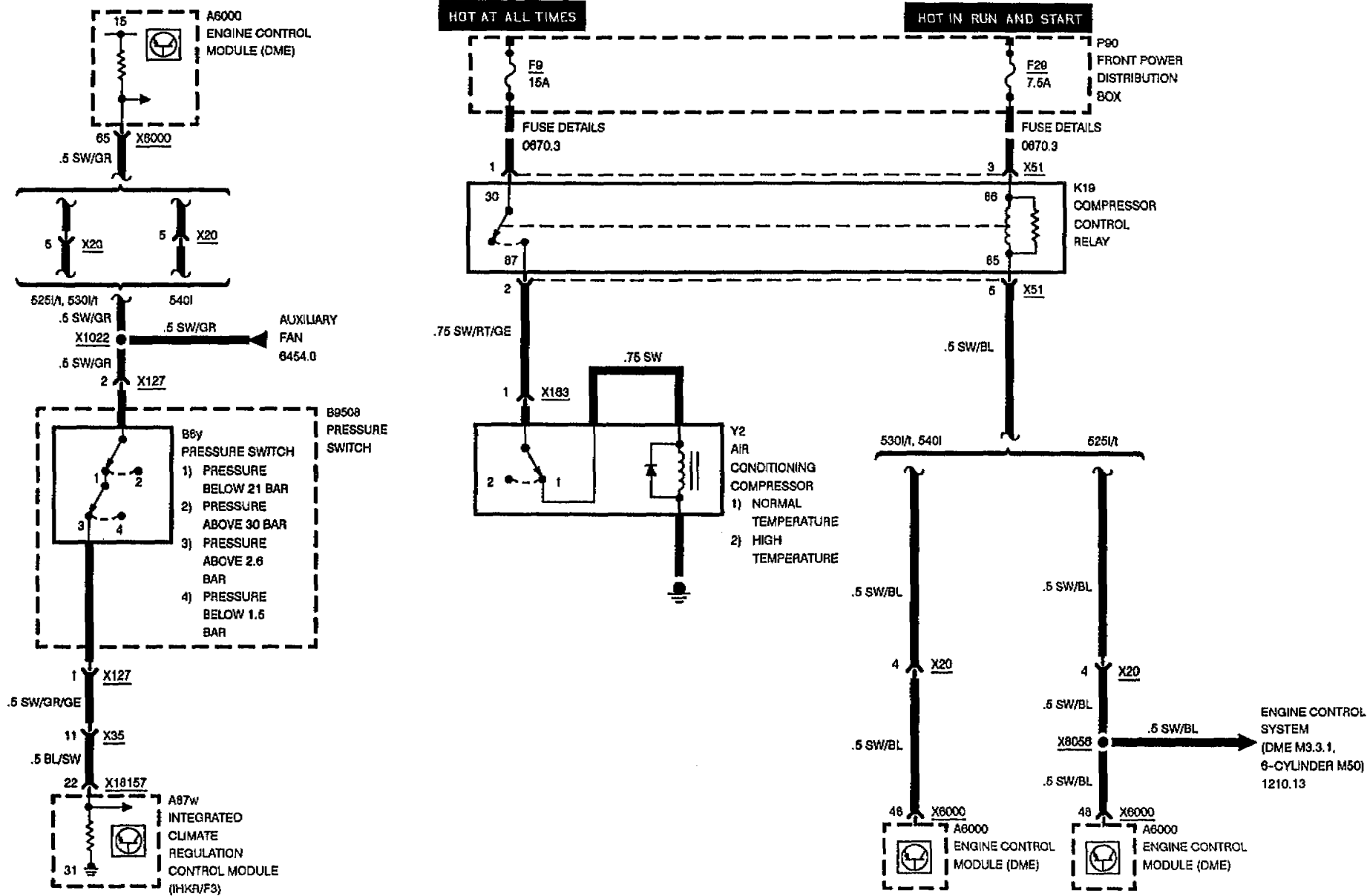
## AIR DELIVERY





# INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

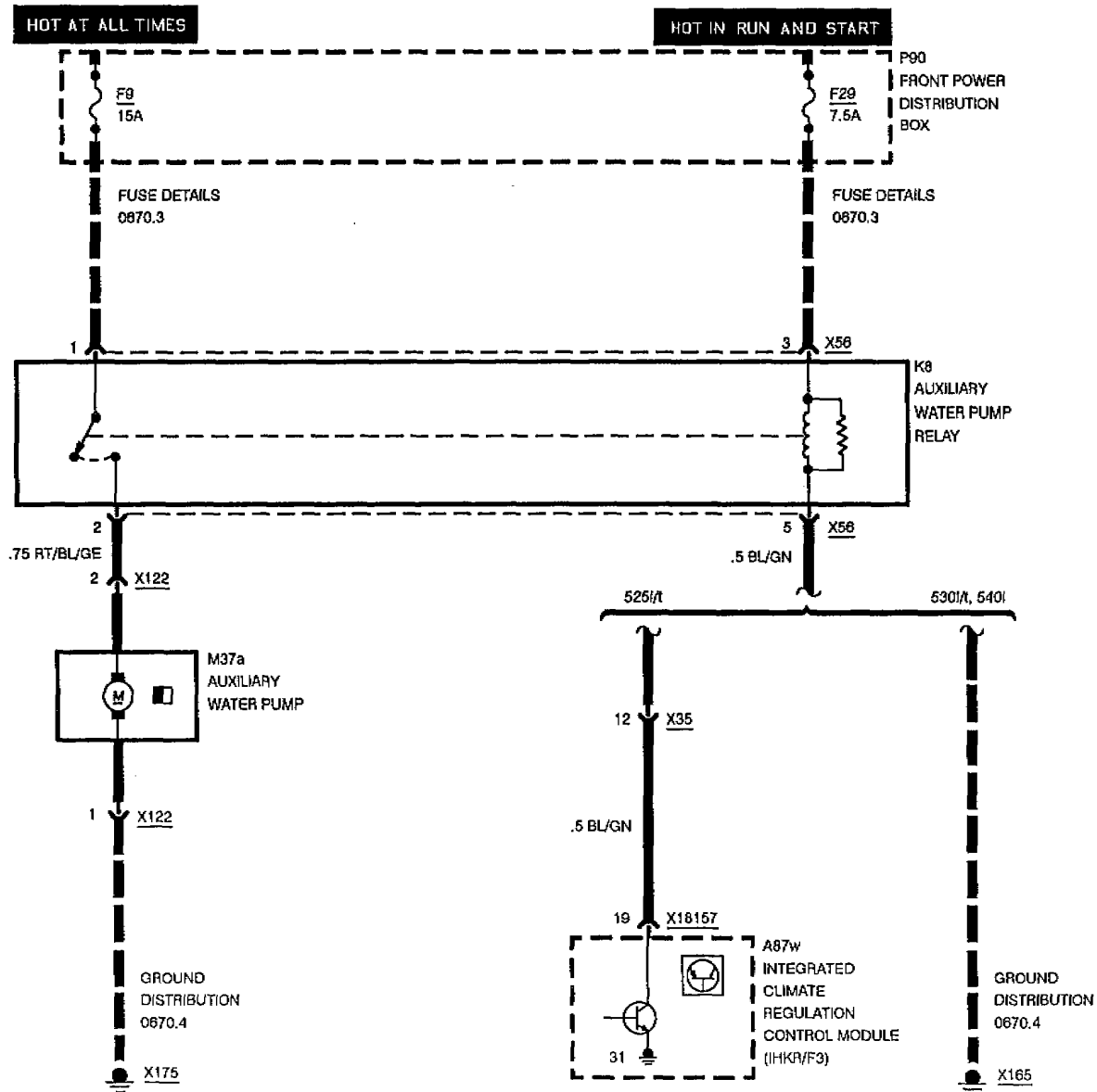
## COMPRESSOR CONTROL





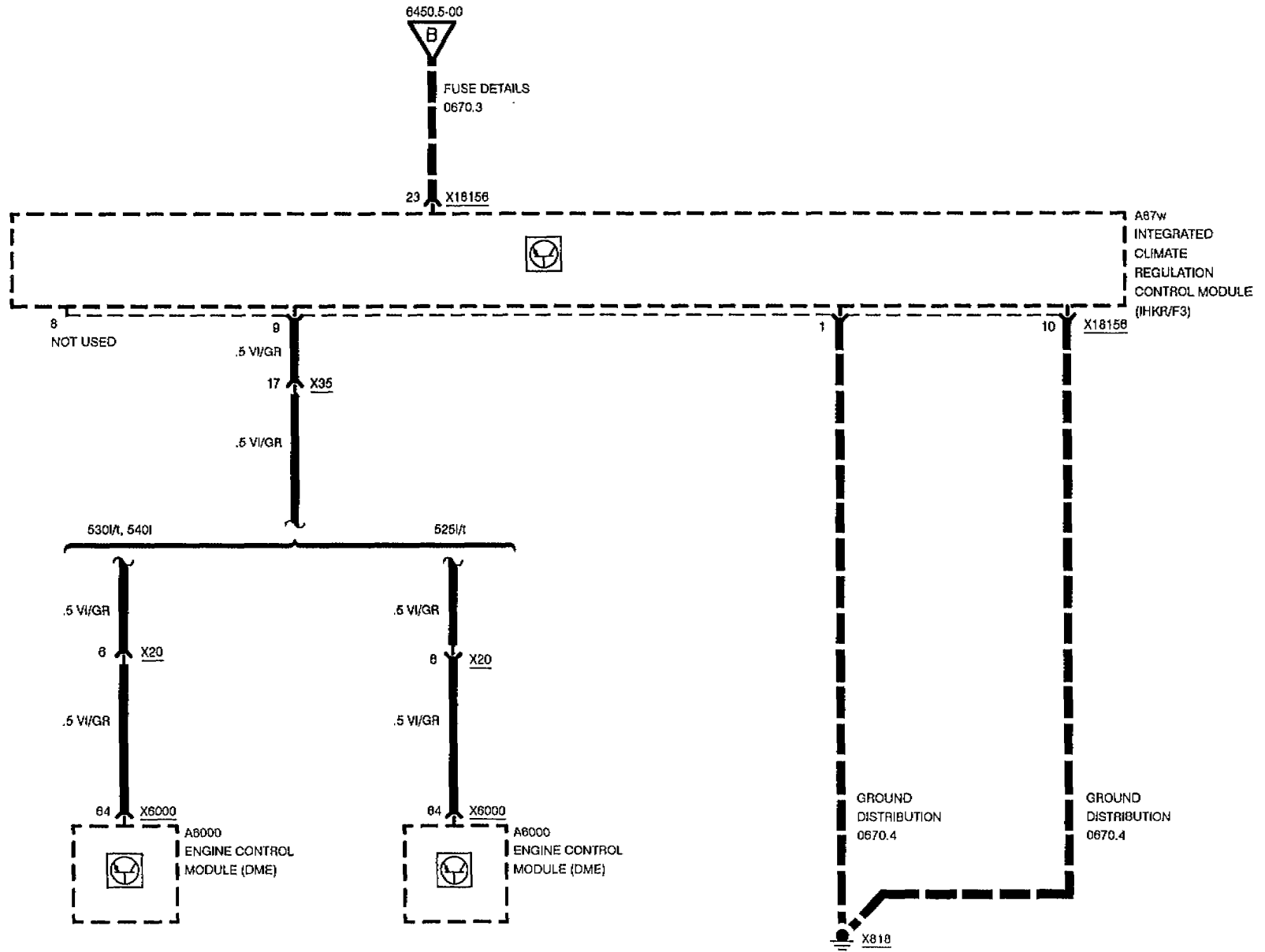
# INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)

## AUXILIARY WATER PUMP



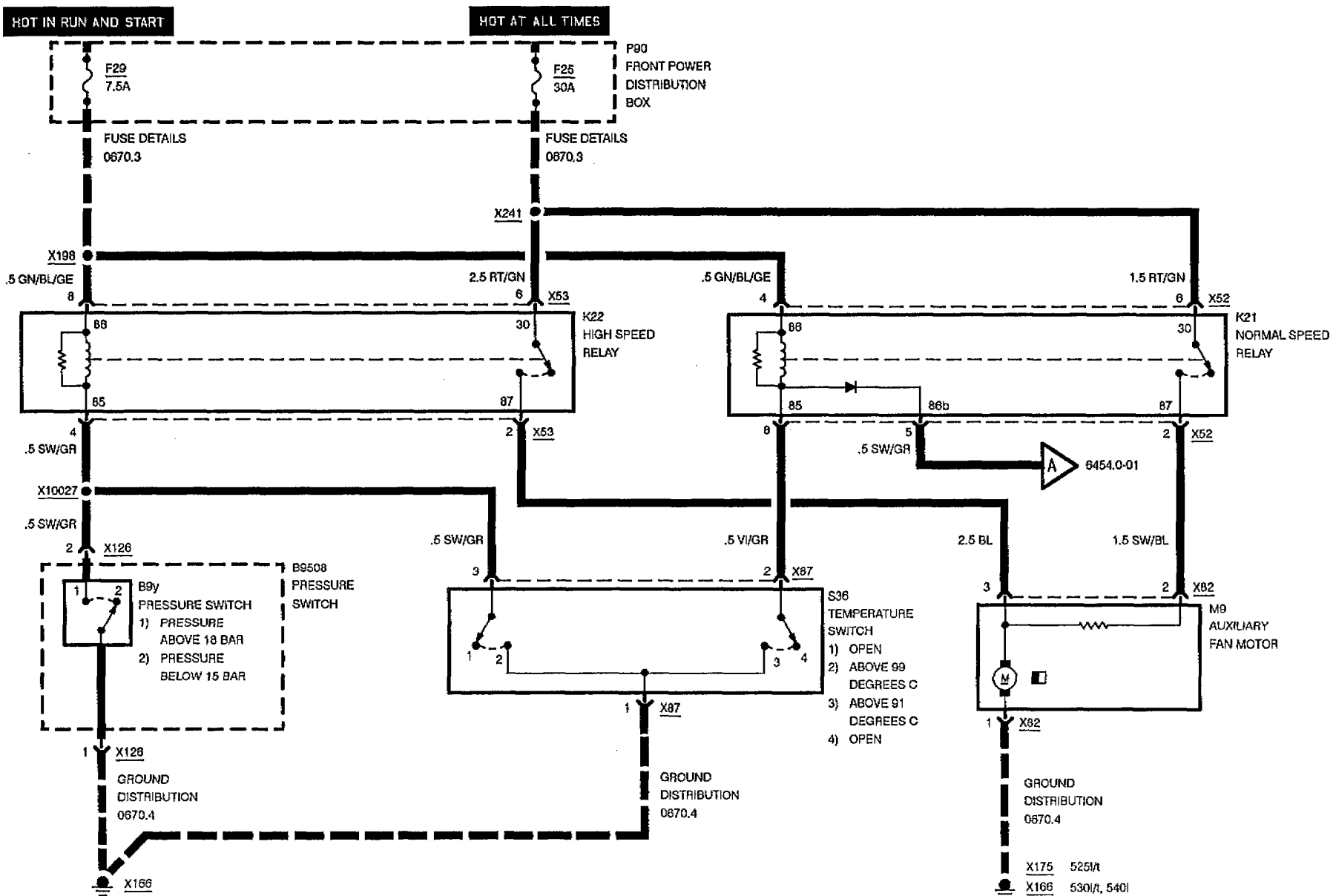


# INTEGRATED CLIMATE REGULATION WITH FILTER (IHKR/F3)



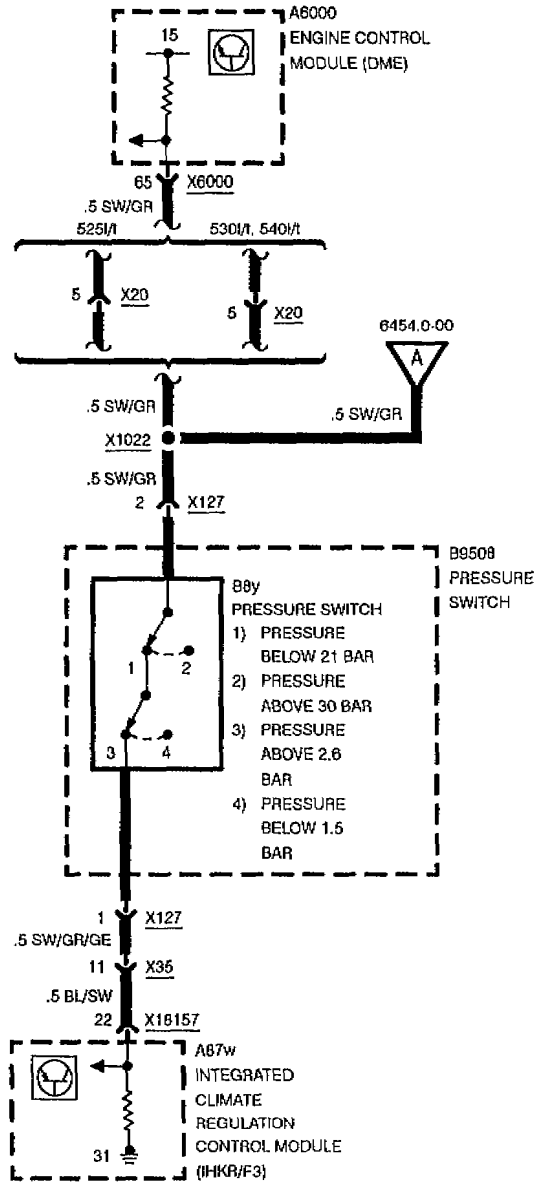


# AUXILIARY FAN





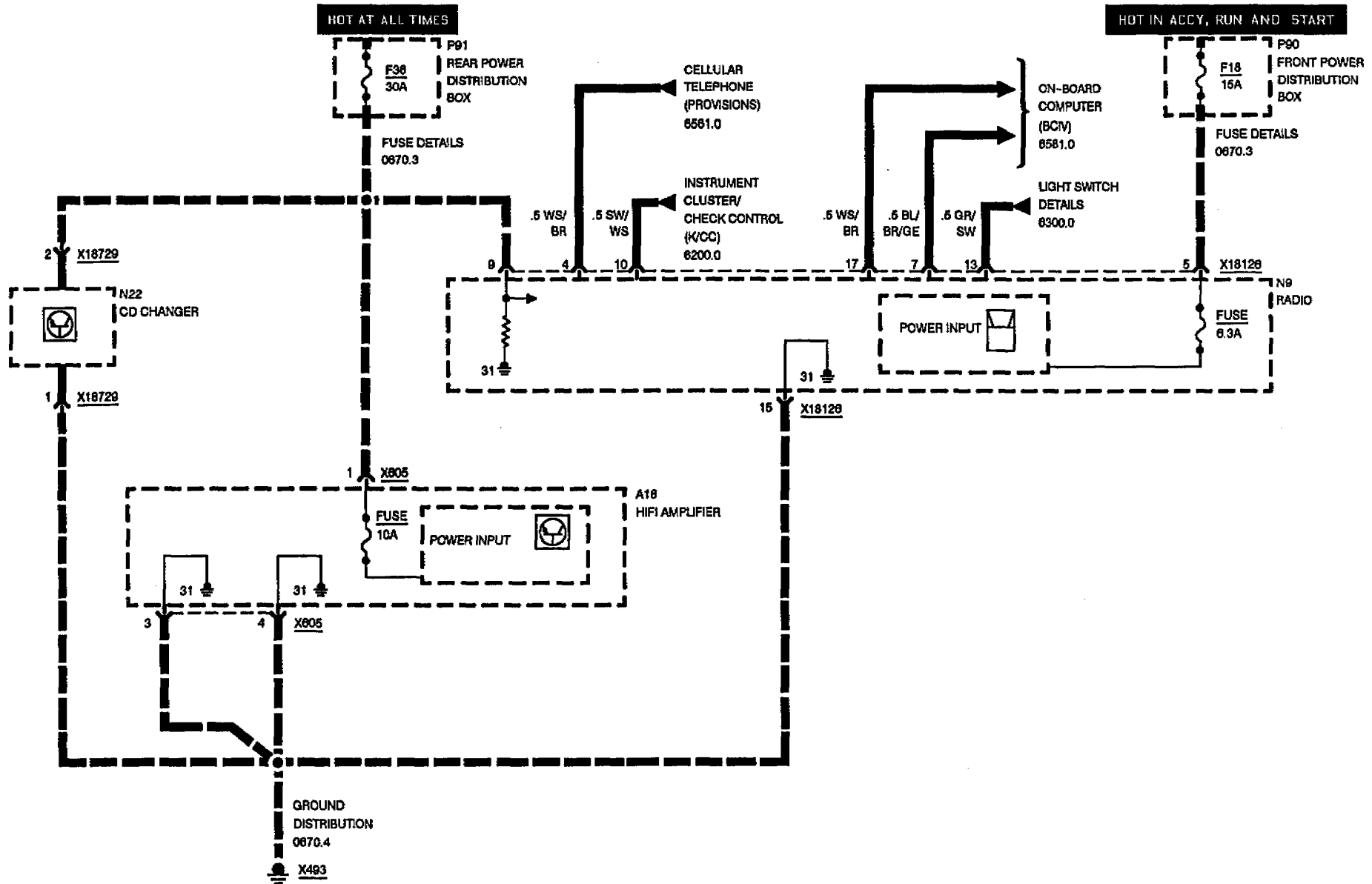
# AUXILIARY FAN





# RADIO/HIFI

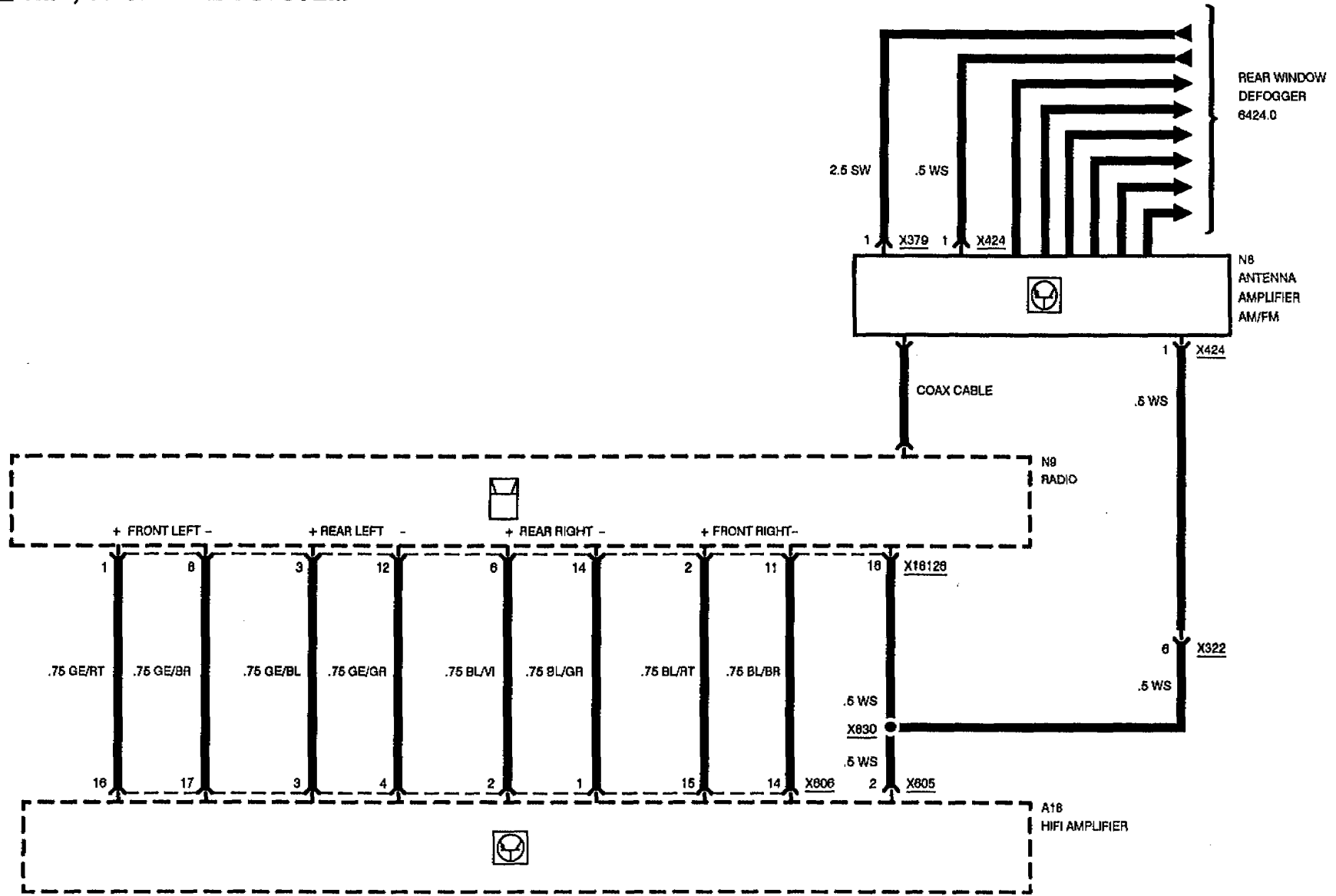
## HIFI, 10-SPEAKER SYSTEM





# RADIO/HIFI

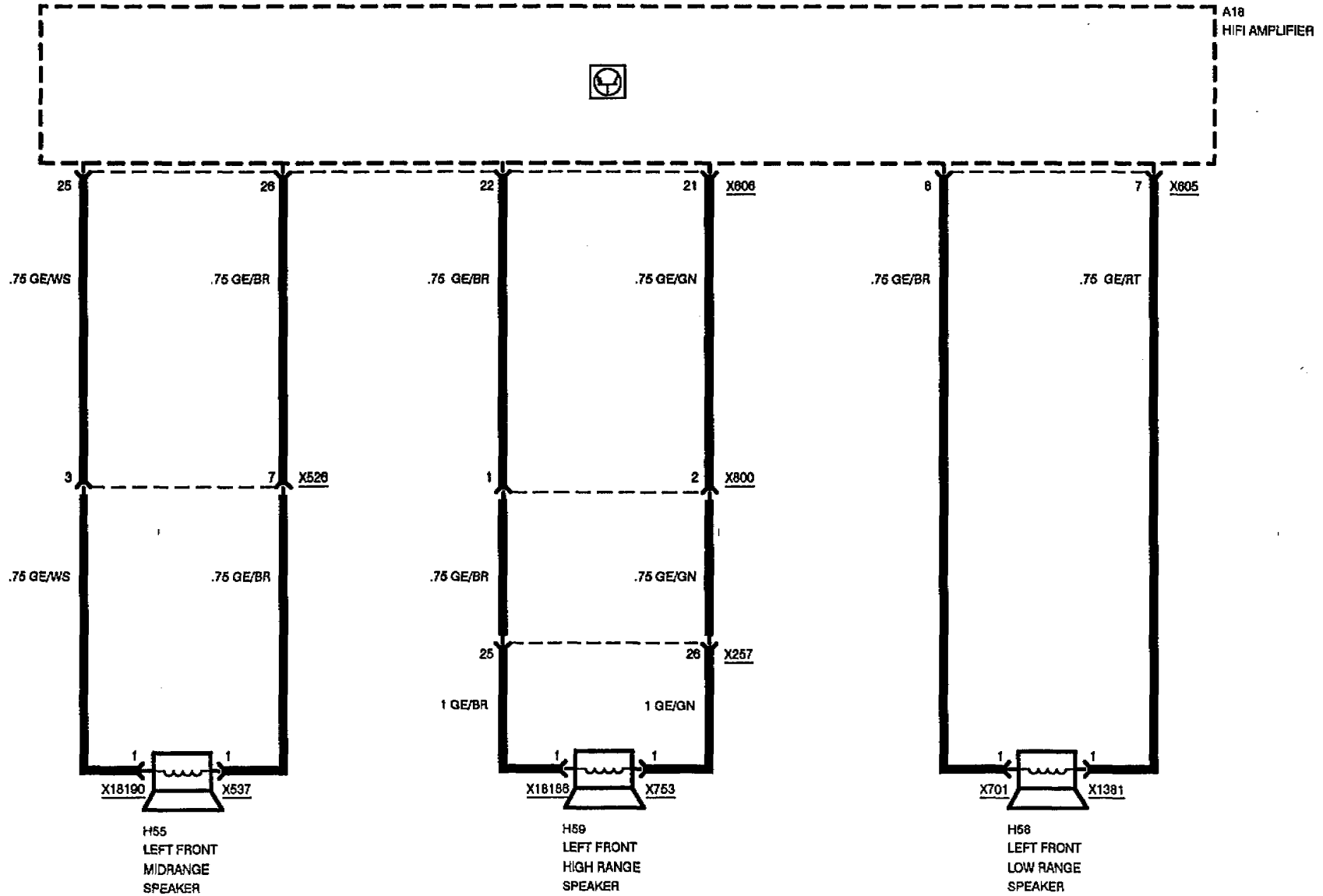
## HIFI, 10-SPEAKER SYSTEM





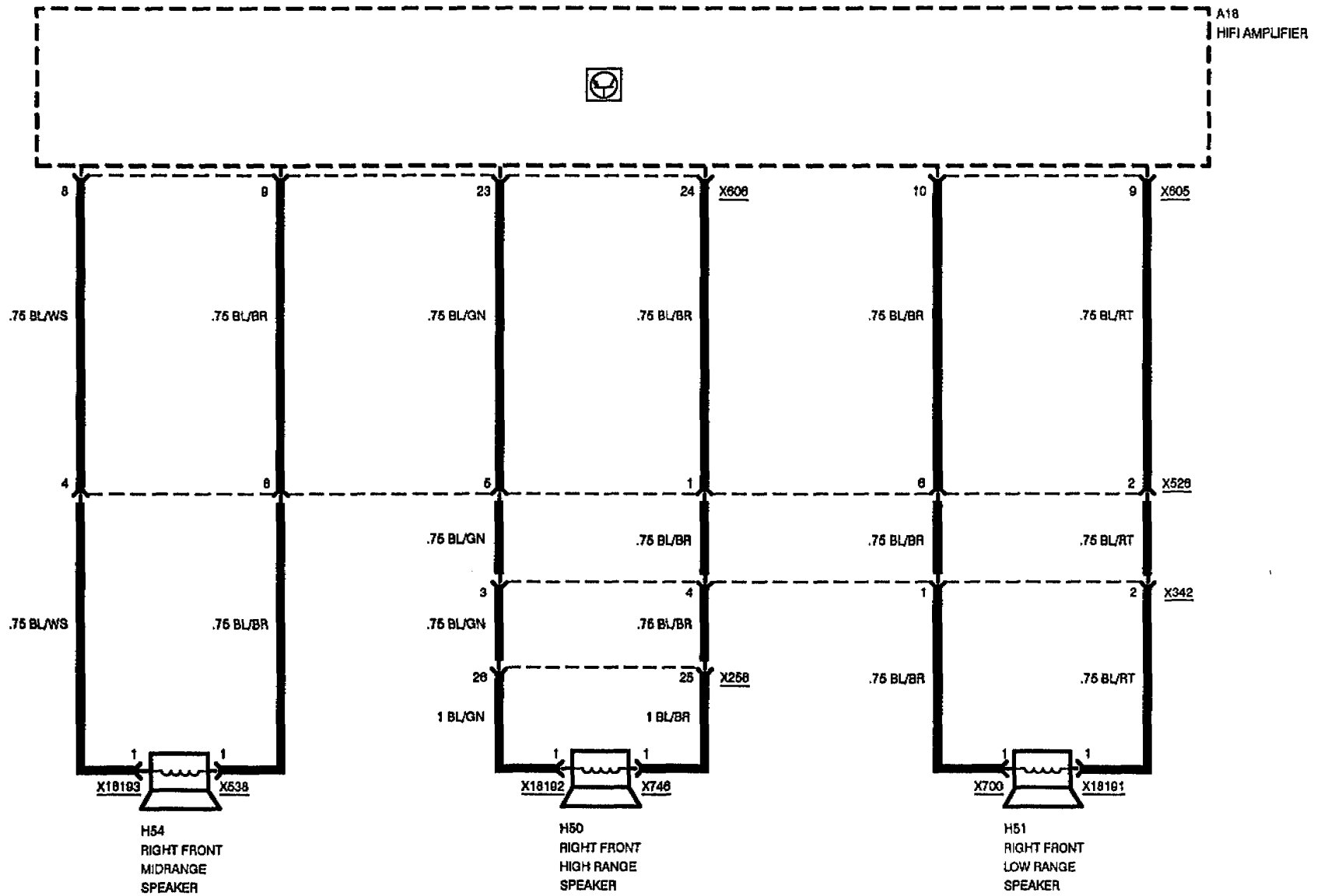
# RADIO/HIFI

## HIFI, 10-SPEAKER SYSTEM





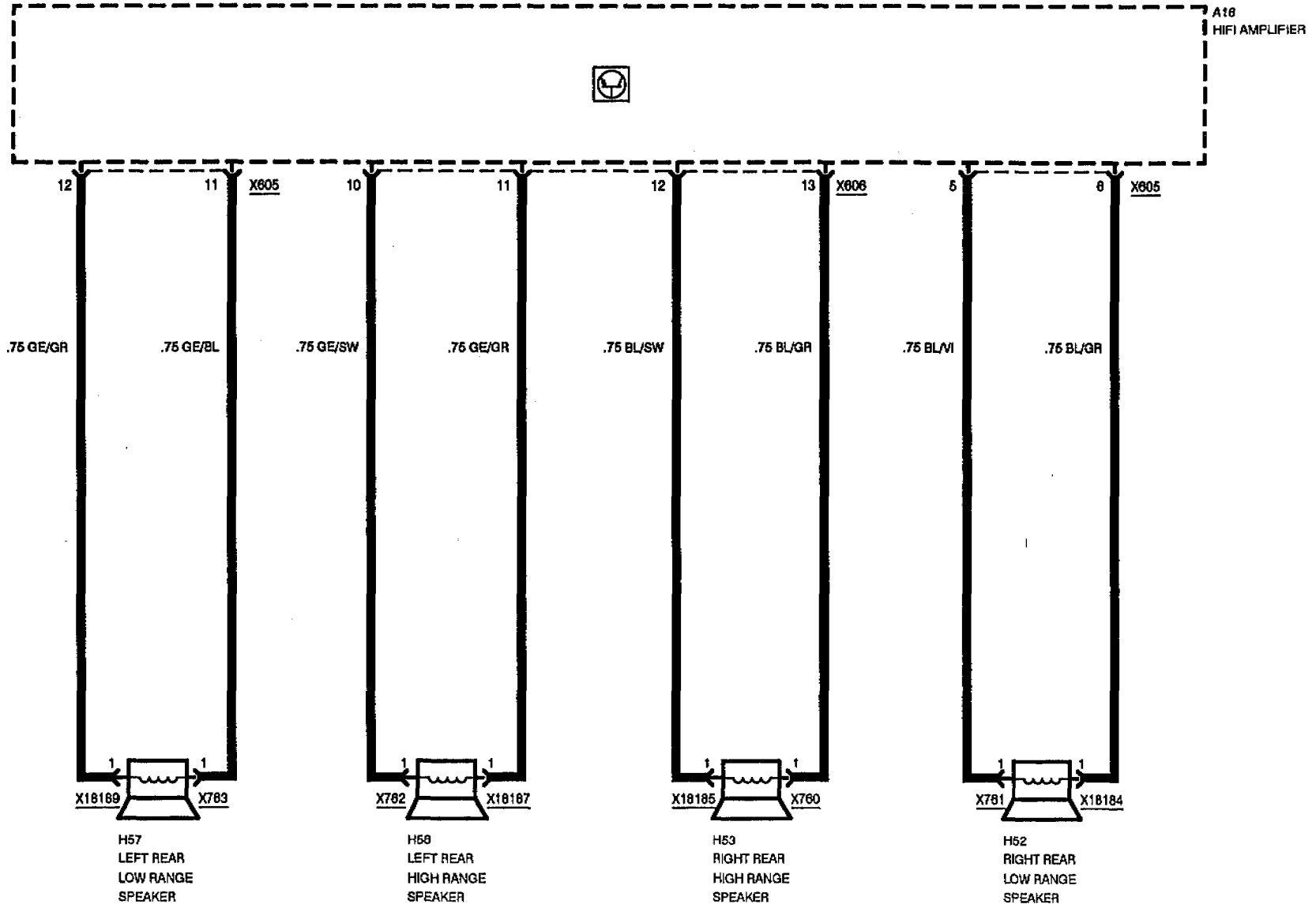
# RADIO/HIFI HIFI, 10-SPEAKER SYSTEM





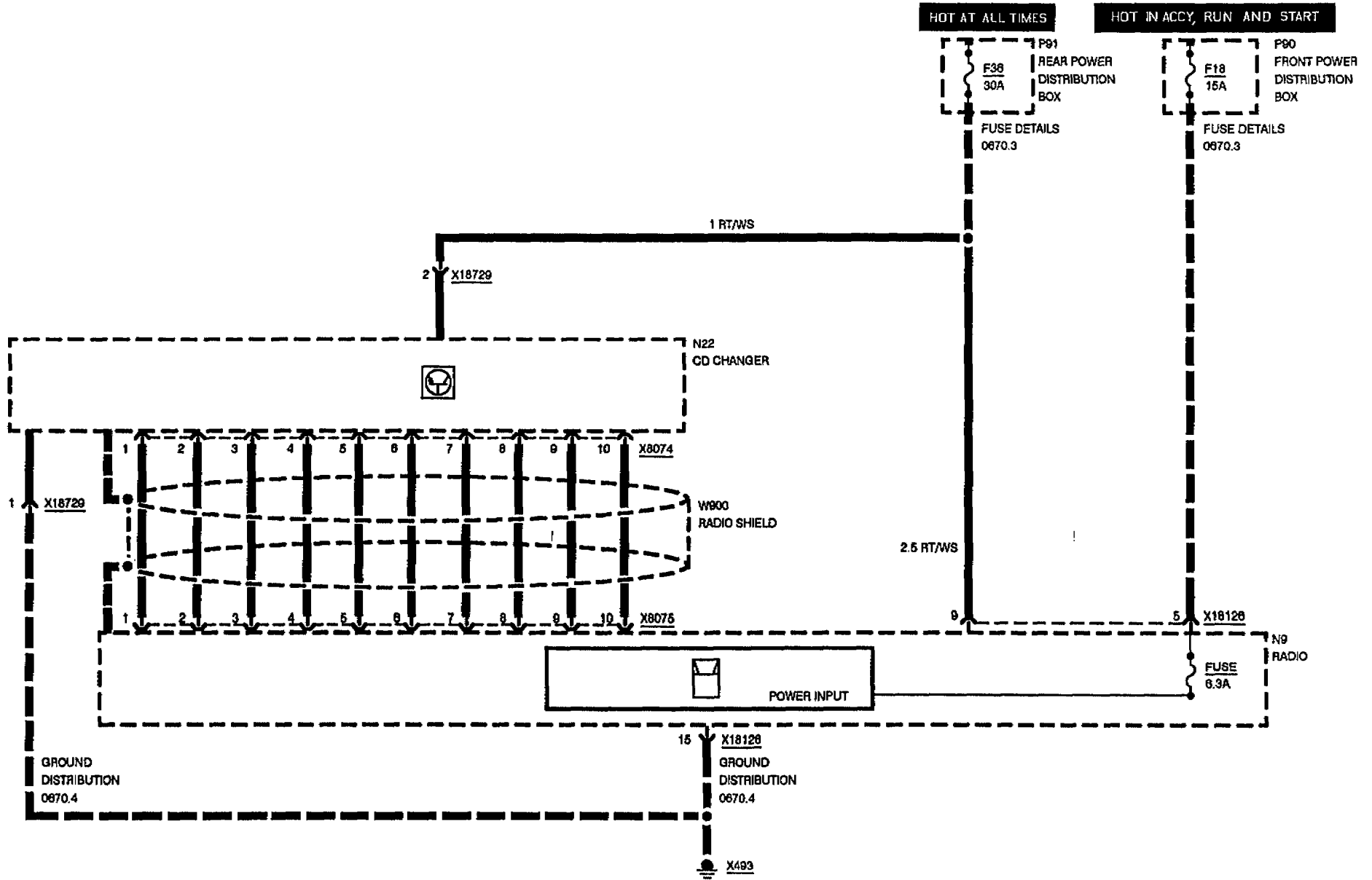
# RADIO/HIFI

## HIFI, 10-SPEAKER SYSTEM





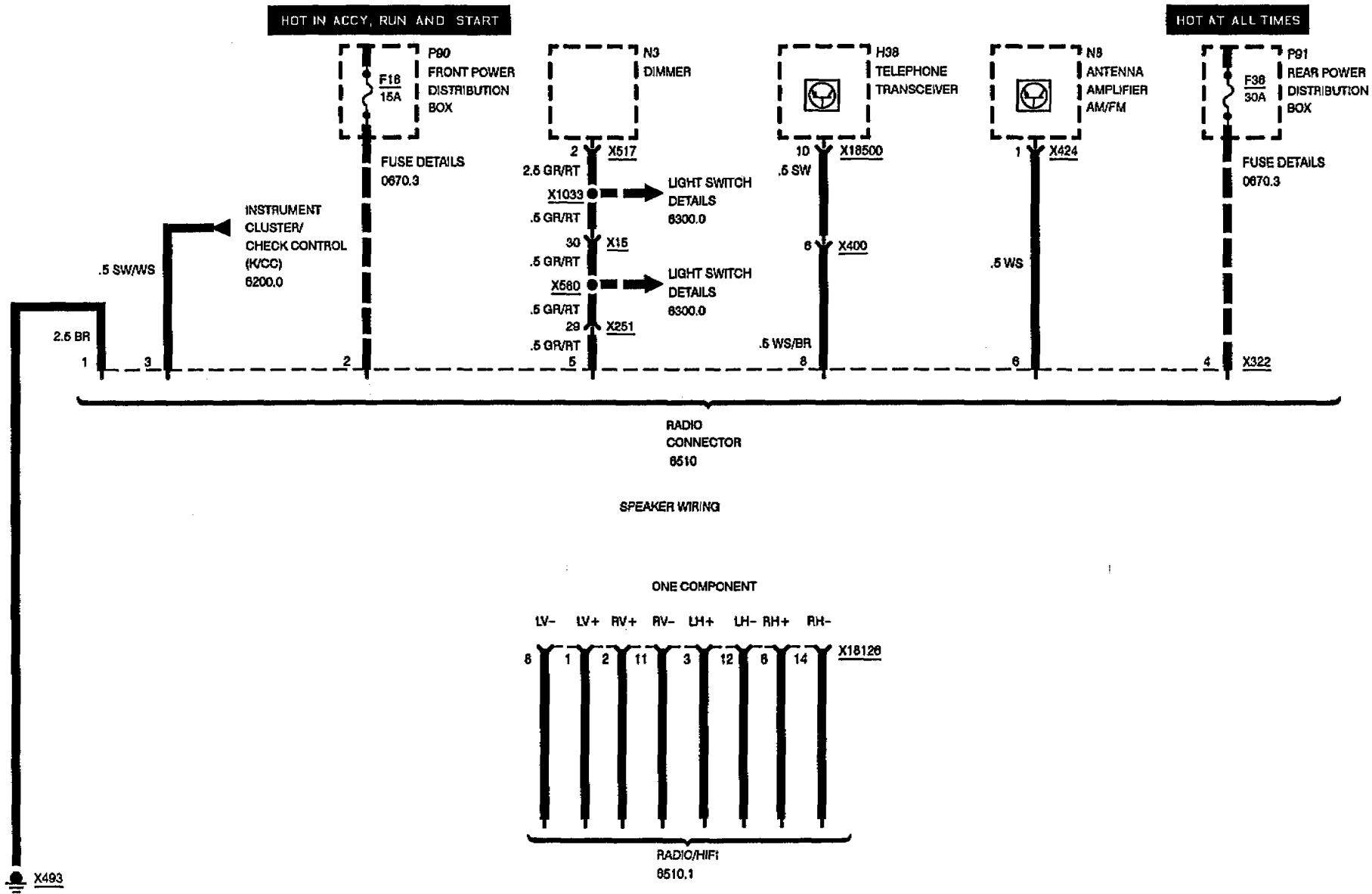
# RADIO/HIFI RADIO/CD PLAYER VARIATION







# RADIO PROVISIONS

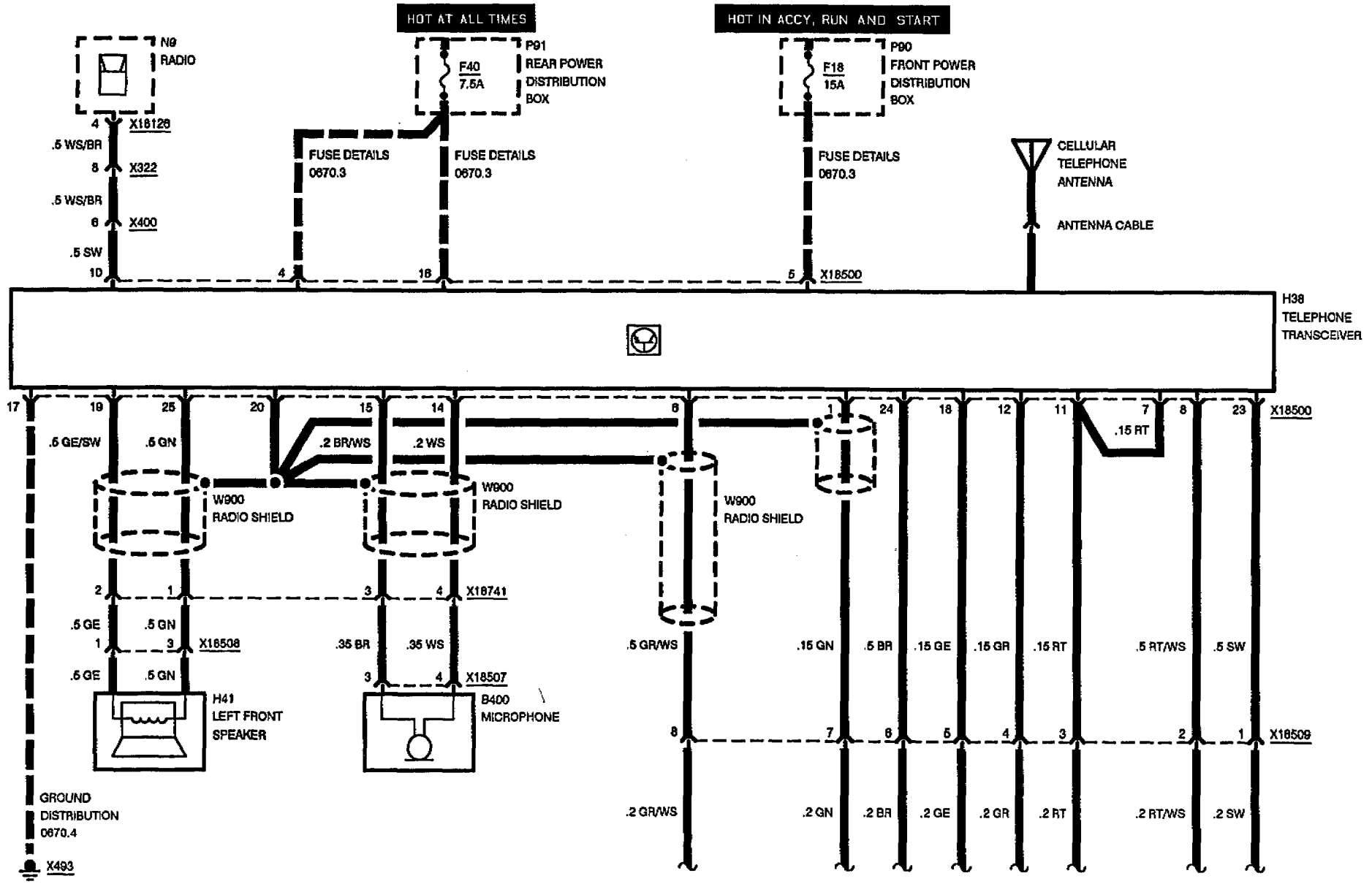


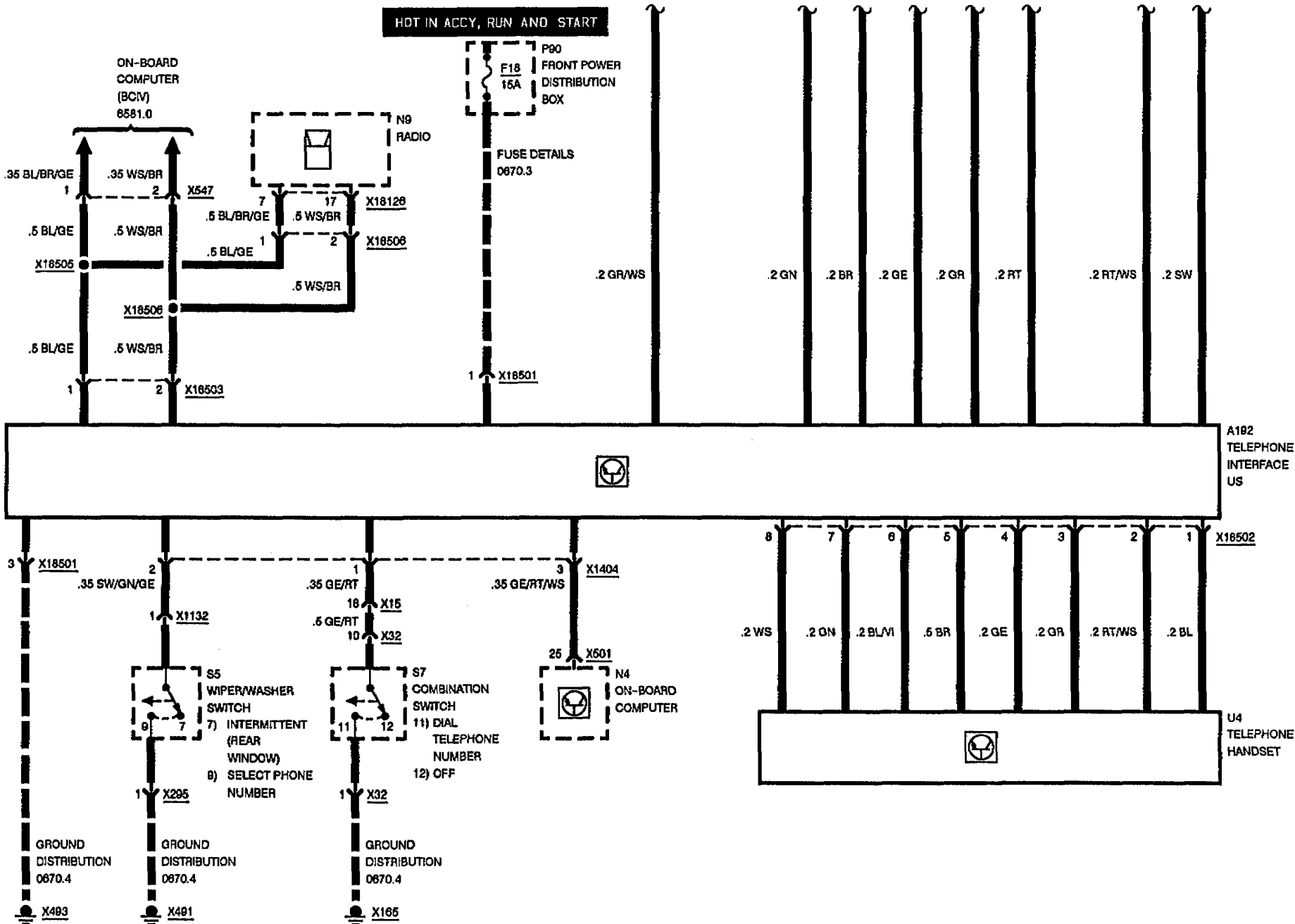
BMW  
5

6561.0



# CELLULAR TELEPHONE (PROVISIONS) WITH INTERFACE

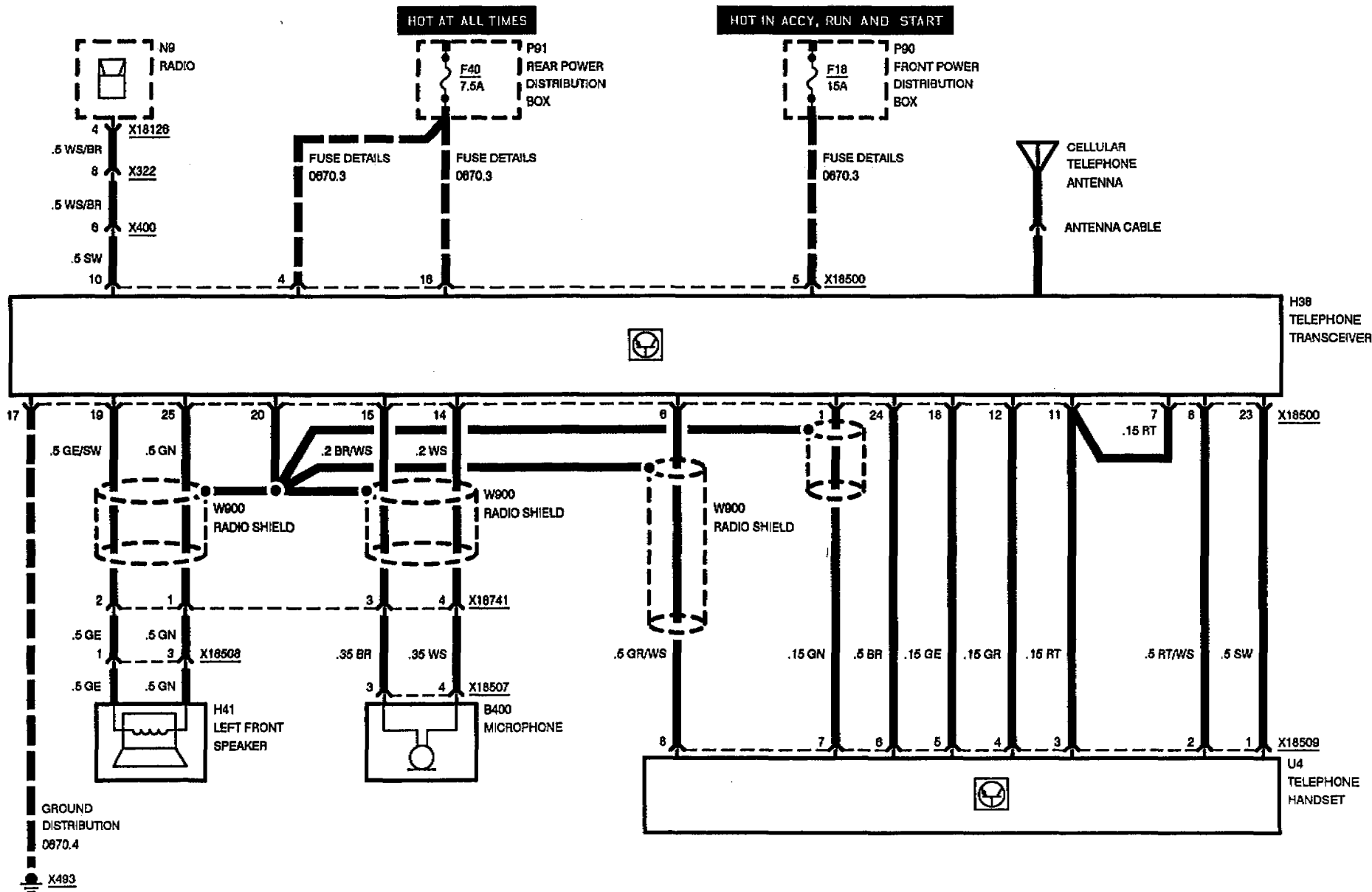






# CELLULAR TELEPHONE (PROVISIONS)

## WITHOUT INTERFACE

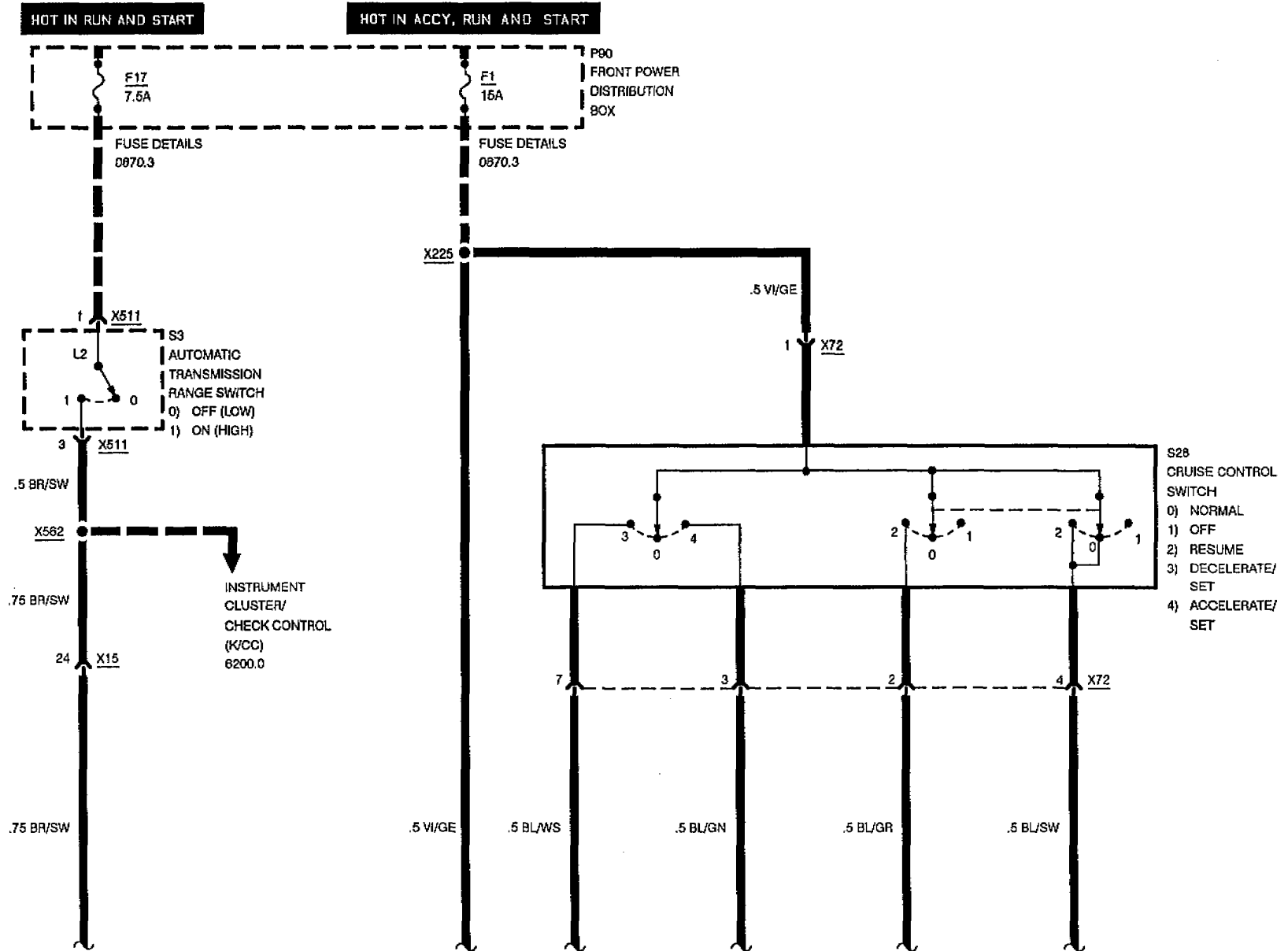


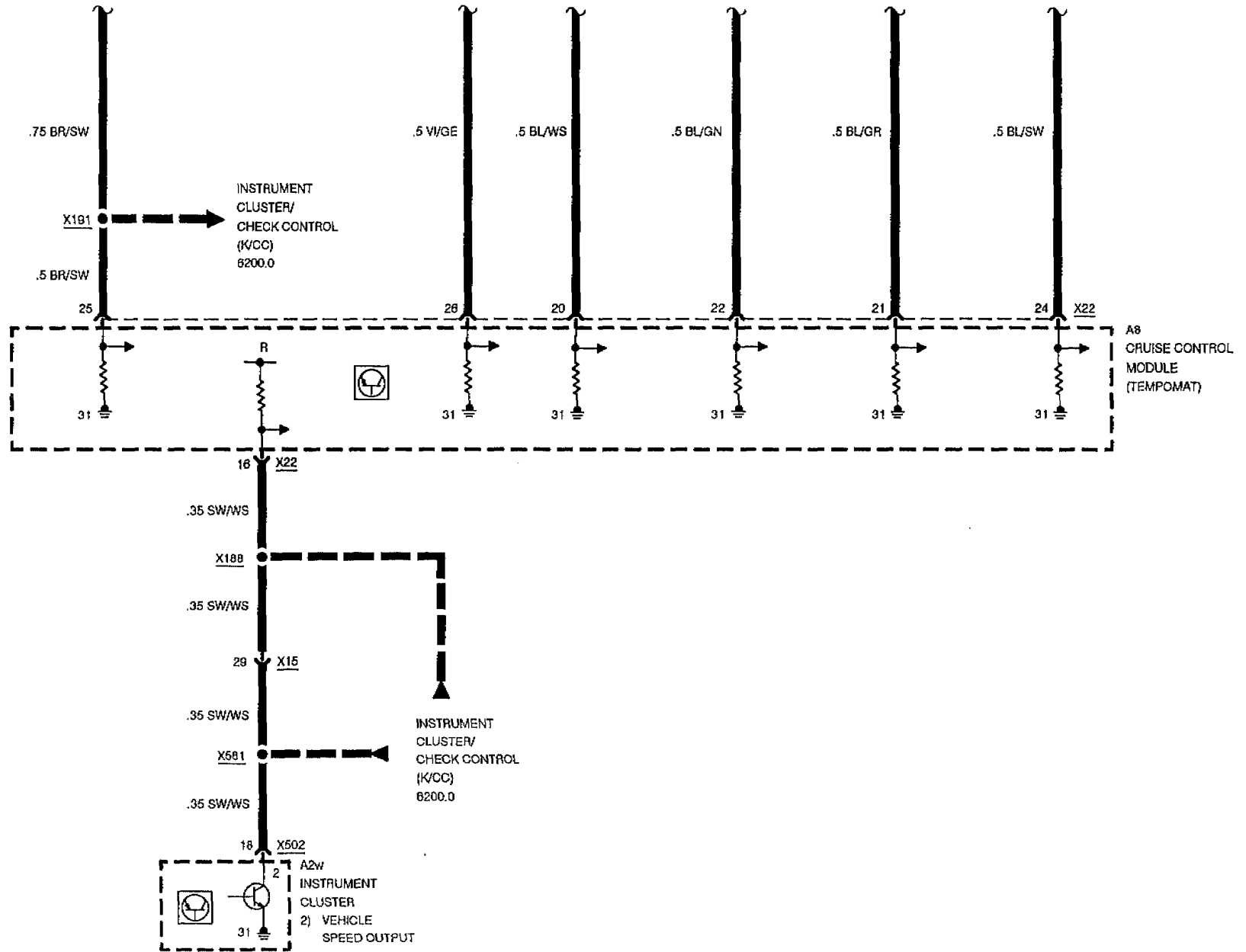
BMW  
**5**

6571.0



# CRUISE CONTROL (TEMPOMAT)

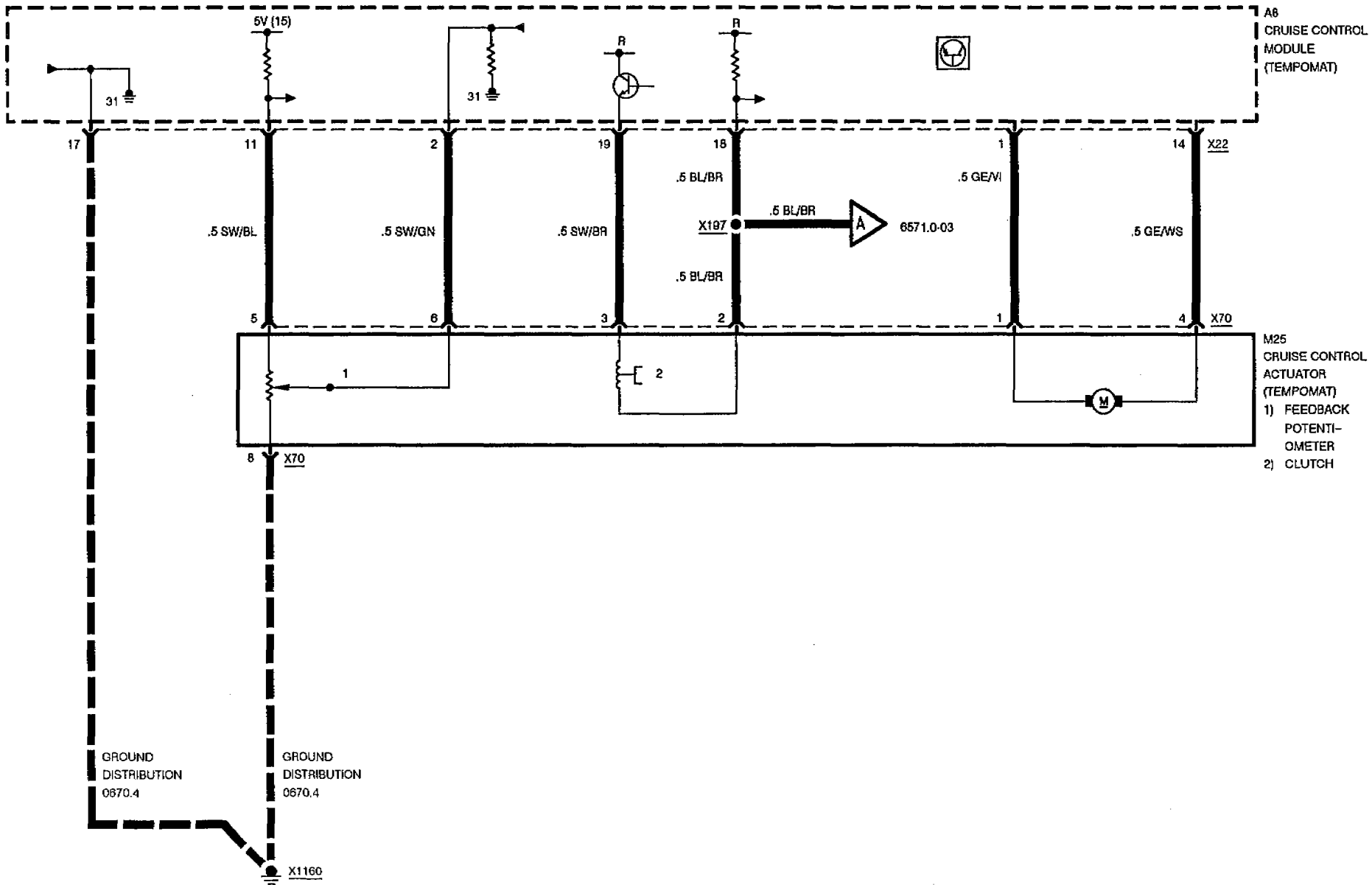






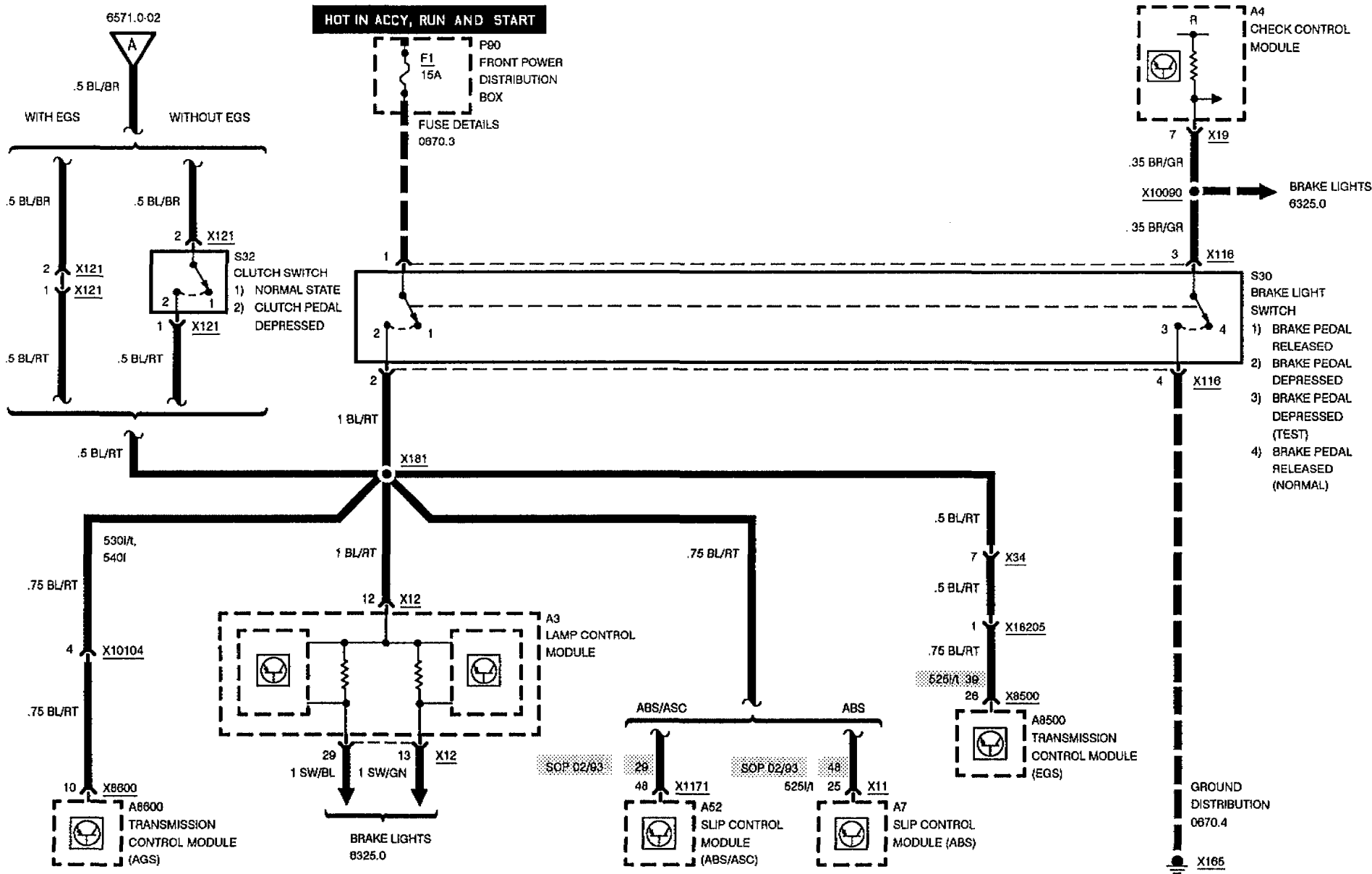


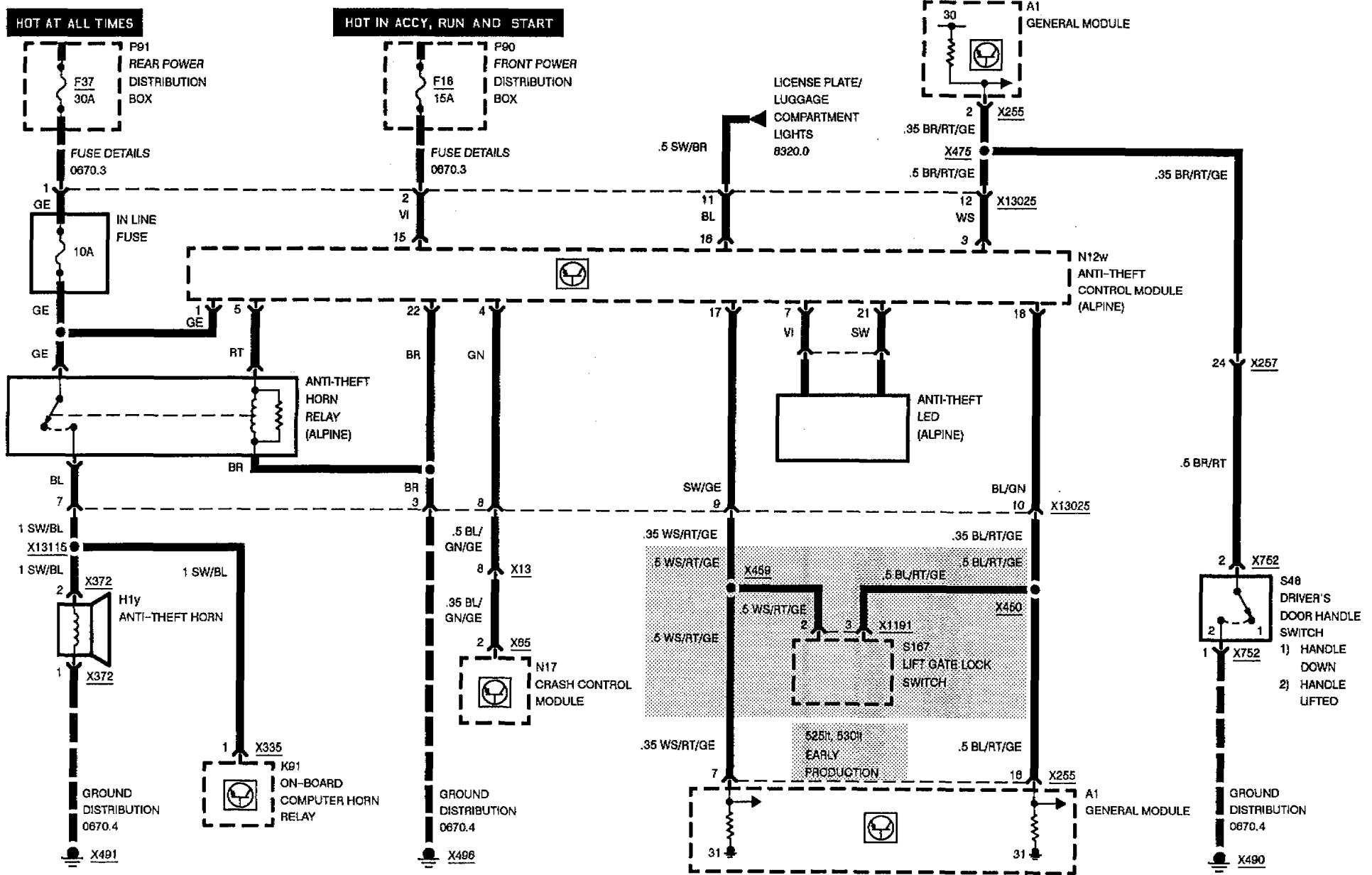
# CRUISE CONTROL (TEMPOMAT)





# CRUISE CONTROL (TEMPOMAT)



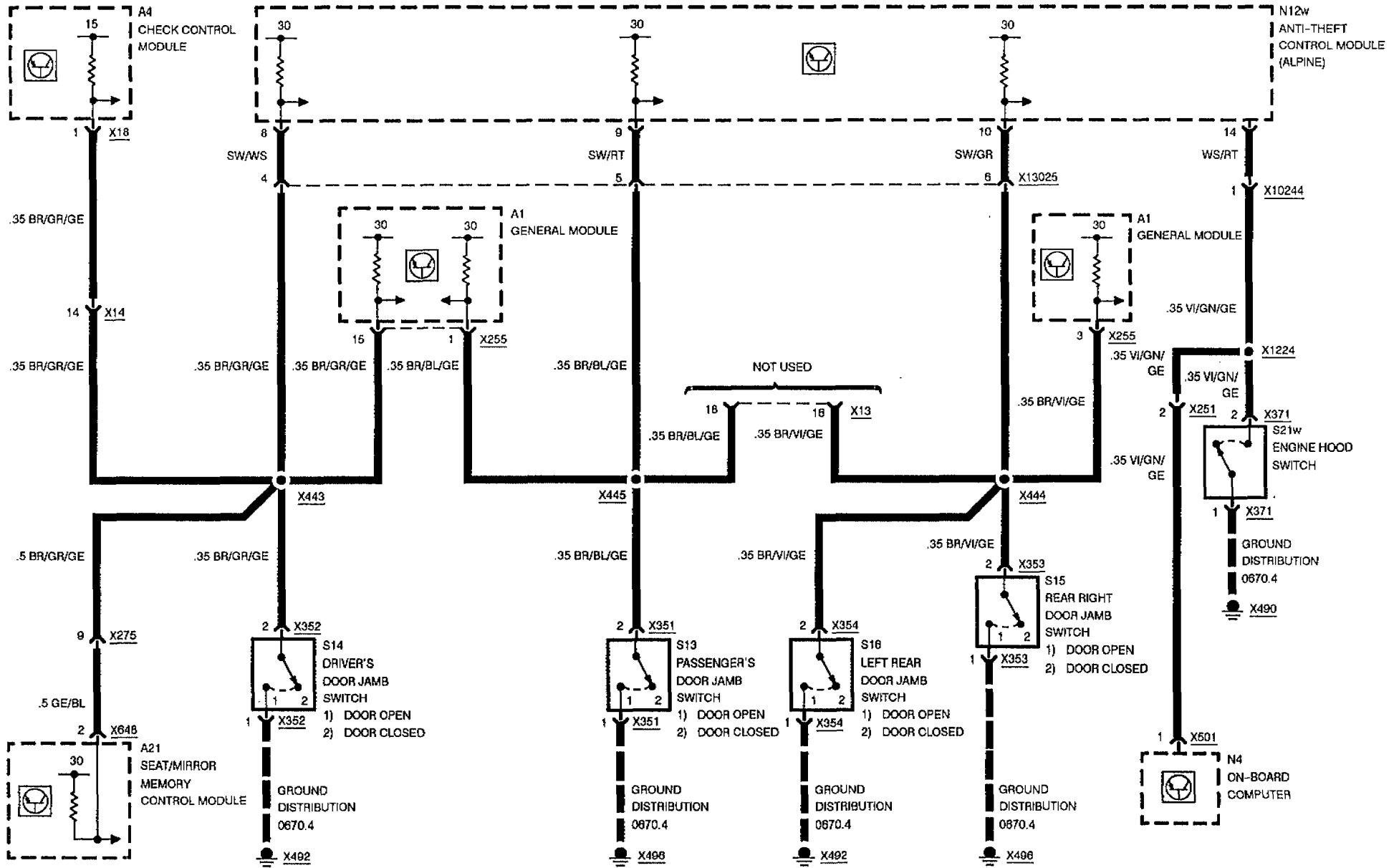




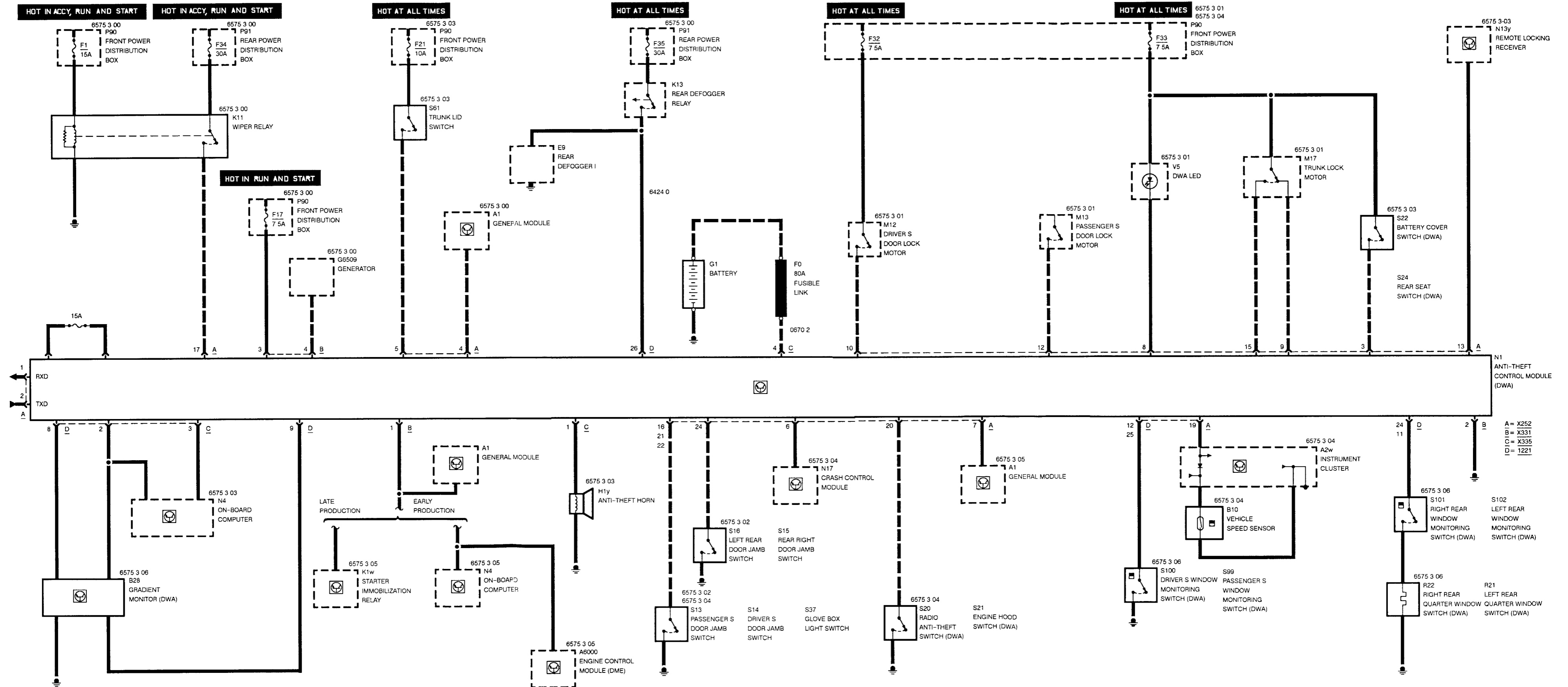
# ANTI-THEFT SYSTEM (ALPINE)

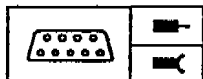
525i/t, 530i/t

## FRONT AND REAR DOOR JAMB SWITCHES









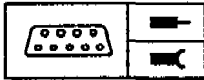
## Pin Assignments

A=X252	26 Pins, black
B=X331	5 Pins, black
C=X335	4 Pins, black
D=X1221	26 Pins, white

### X252

Pin	Type	Description/Function	Connection
1	A	Diagnosis RxD	Data link connector
2	E	Diagnosis TxD	Data link connector
3	E	Rear seat/battery monitor	Rear seat/battery micro switch
4	E	Central locking signal	General module
5	E	Trunk lid	Trunk lid light switch
6	A	"Optical Alarm"	Crash control module
7	E	QZV	General module
8	A	Status-LED	LED
9	E	Trunk lock motor	Lock motor switch
10	E	Driver's door lock motor	Lock motor switch
11		Not used	
12	E	Passenger's door lock motor	Lock motor switch
13	E	IRS lock signal	IR control module
14		Not used	
15	E	Trunk lock motor	Lock motor switch
16	E	Passenger's door	Passenger's door contact
17	E	Connection terminal R	Wiper relay
18	E	Central locking	Door lock switch
19	E	Impulse path	Instrument cluster
20	E	Hood/radio	Hood/radio contact
21	E	Driver's door	Driver's door contact
22	E	Glove box	Glove box contact
23		Not used	
24	E	Rear door contact	Door contacts

E = Input, A = Output, M = Ground



## Pin Assignments

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

### X331

Pin	Type	Description/Function	Connection
1	A	Drive-away protection	BC, engine control module (DME) Starter immobilization relay (Late Production)
2	M	Ground	Ground connection
3	E	Ignition ON signal	Terminal 15
4	E	Terminal 61	Generator charge indicator
5		Not used	

### X335

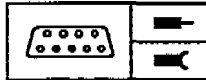
Pin	Type	Description/Function	Connection
1	A	Anti-theft horn connection	Anti-theft horn
2	A	Terminal 30S	BC, inclination monitoring
3	E	BC-alarm	BC
4	E	Terminal 30U	Battery

### X1221

Pin	Type	Description/Function	Connection
1		Not used	
2		Not used	
3		Not used	
4		Not used	
5		Not used	
6		Not used	

E = Input, A = Output, M = Ground





## Pin Assignments

Pin	Type	Description/Function	Connection
7		Not used	
8	E	Inclination sensor	Gradient monitor
9	A	Inclination sensor	Gradient monitor
10		Not used	
11	E	Left rear windows	Left rear window contact
12	E	Driver's window	Driver's window contact
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	E	Right rear windows	Right rear window contact
25	E	Passenger's window	Passenger's window contact
26	E	Rear window	Rear defogger

E = Input, A = Output, M = Ground



# ANTI-THEFT SYSTEM IV (DWA IV)

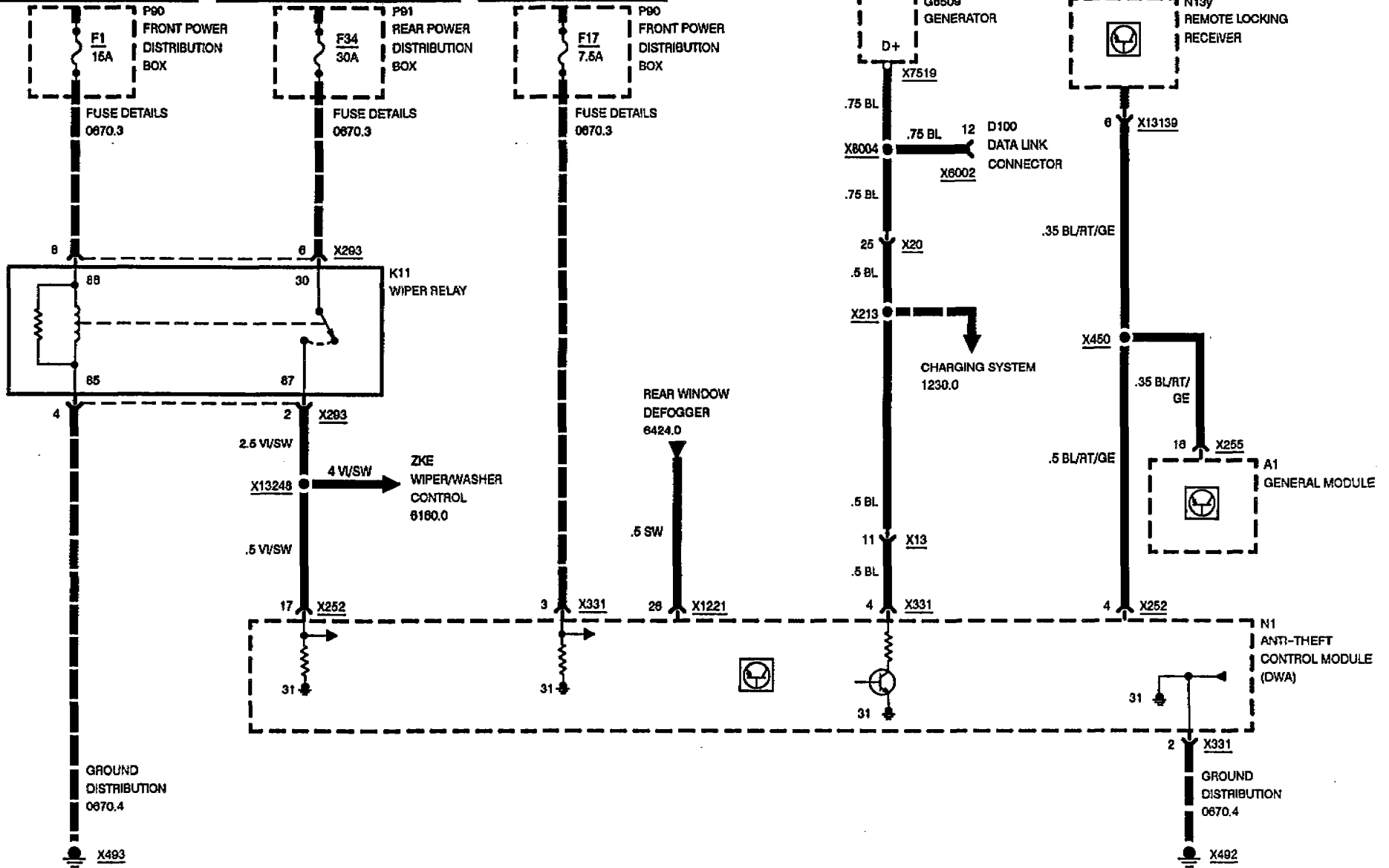
## POWER

540i

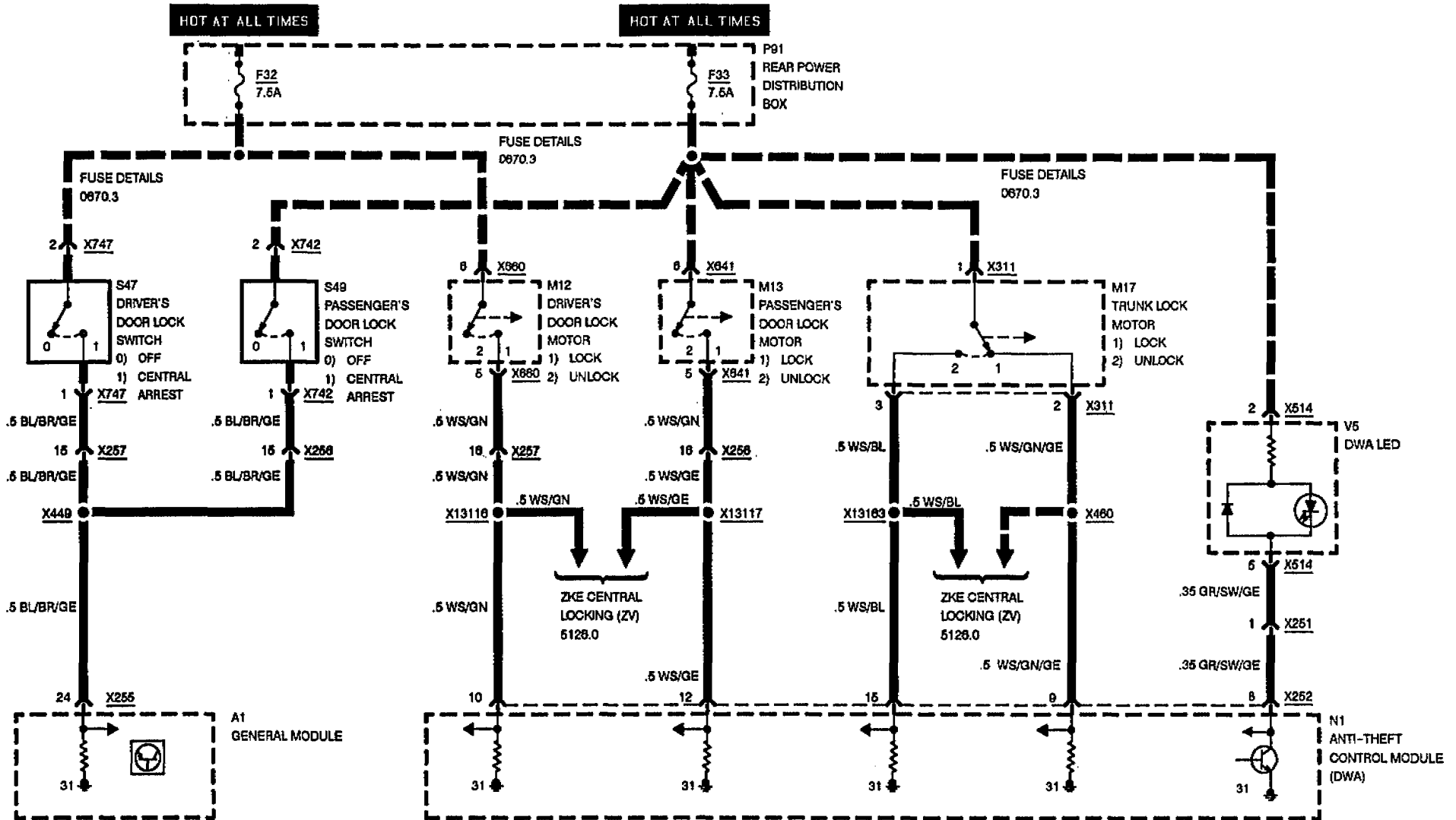
HOT IN ACCY, RUN AND START

HOT IN ACCY, RUN AND START

HOT IN RUN AND START



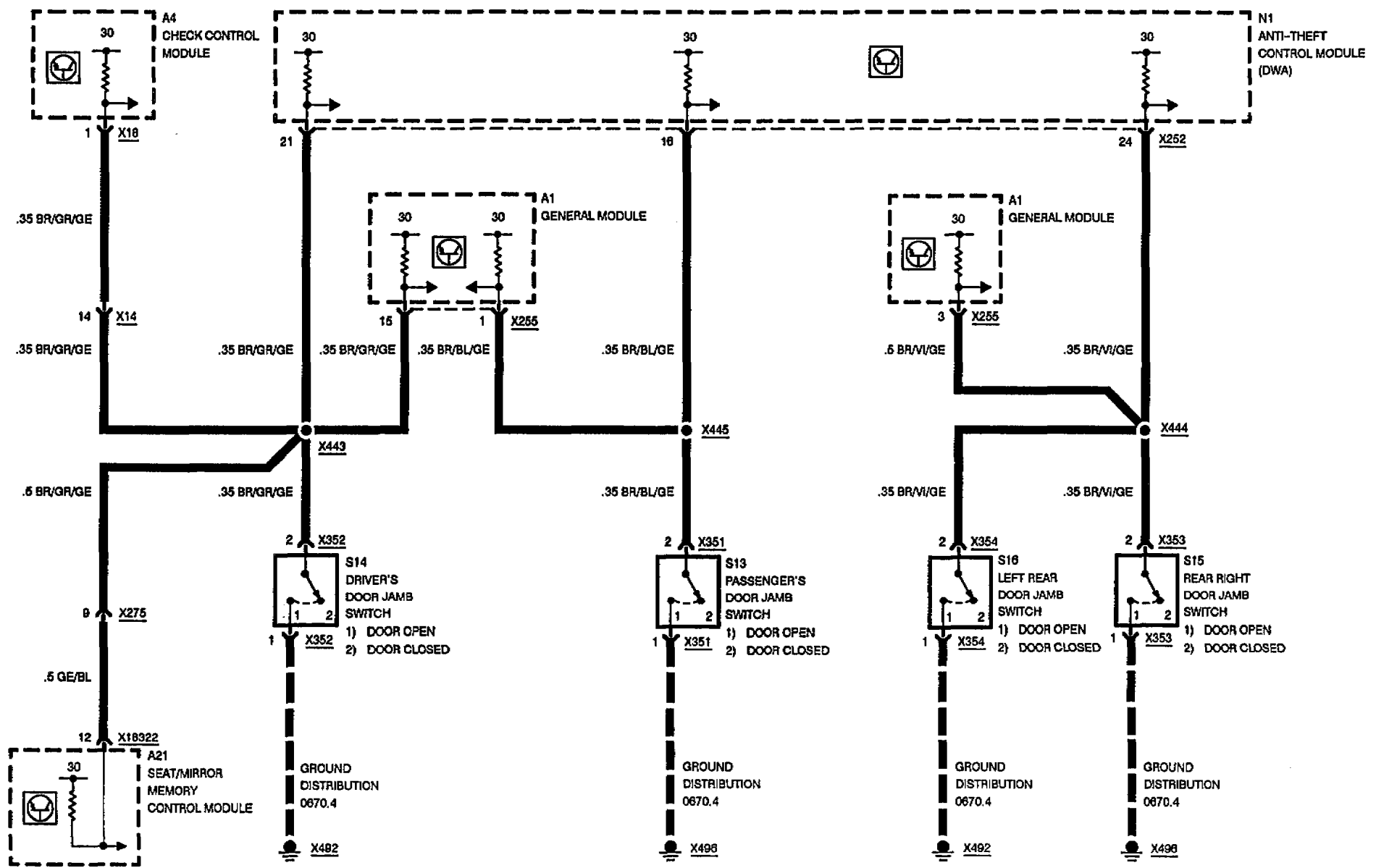
DRIVER'S AND PASSENGER'S DOOR INPUTS, LIFT GATE AND INDICATOR LIGHTS





# ANTI-THEFT SYSTEM IV (DWA IV) FRONT AND REAR DOOR JAMB SWITCHES

540i



12/94

6575.3-02

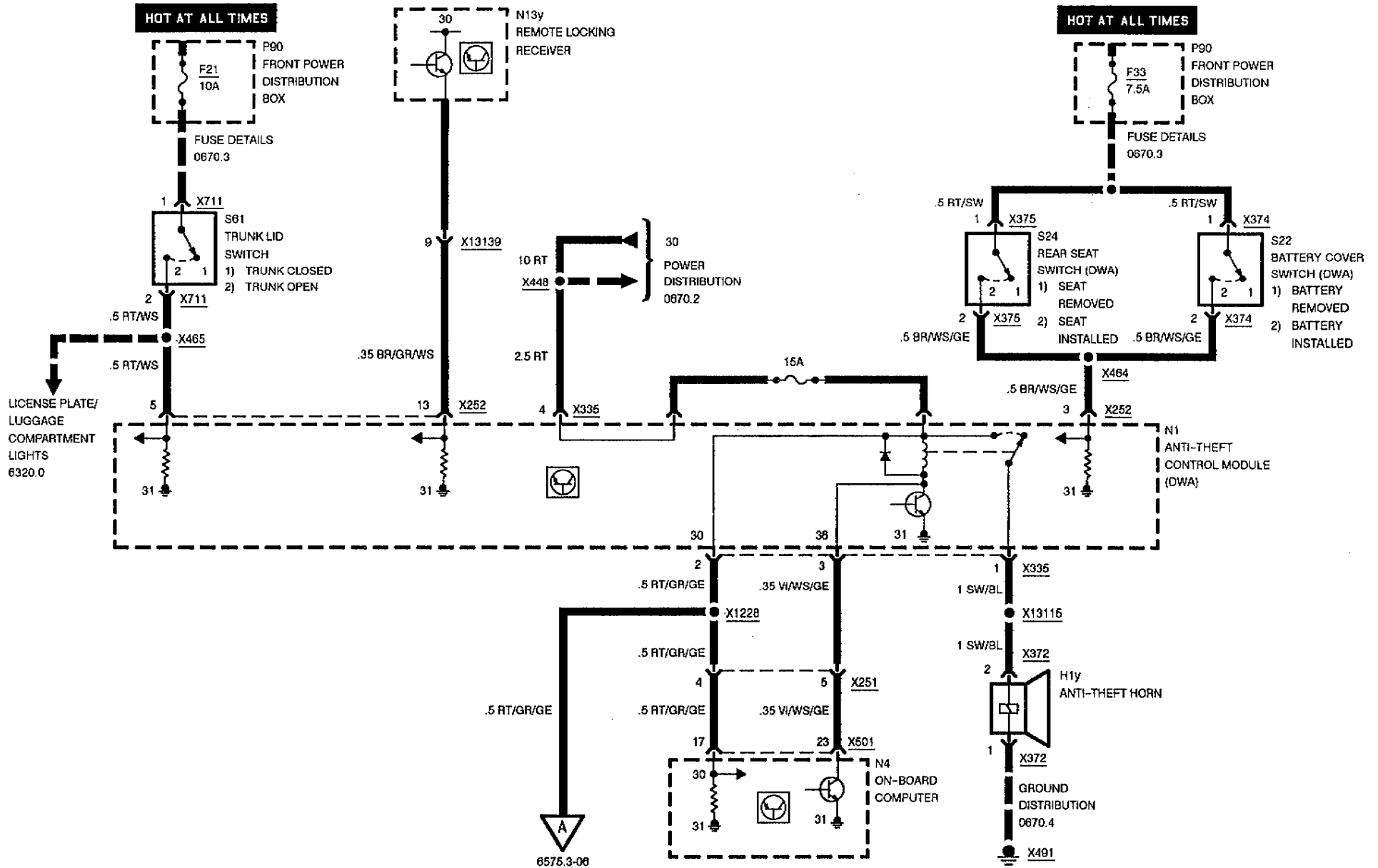
1994

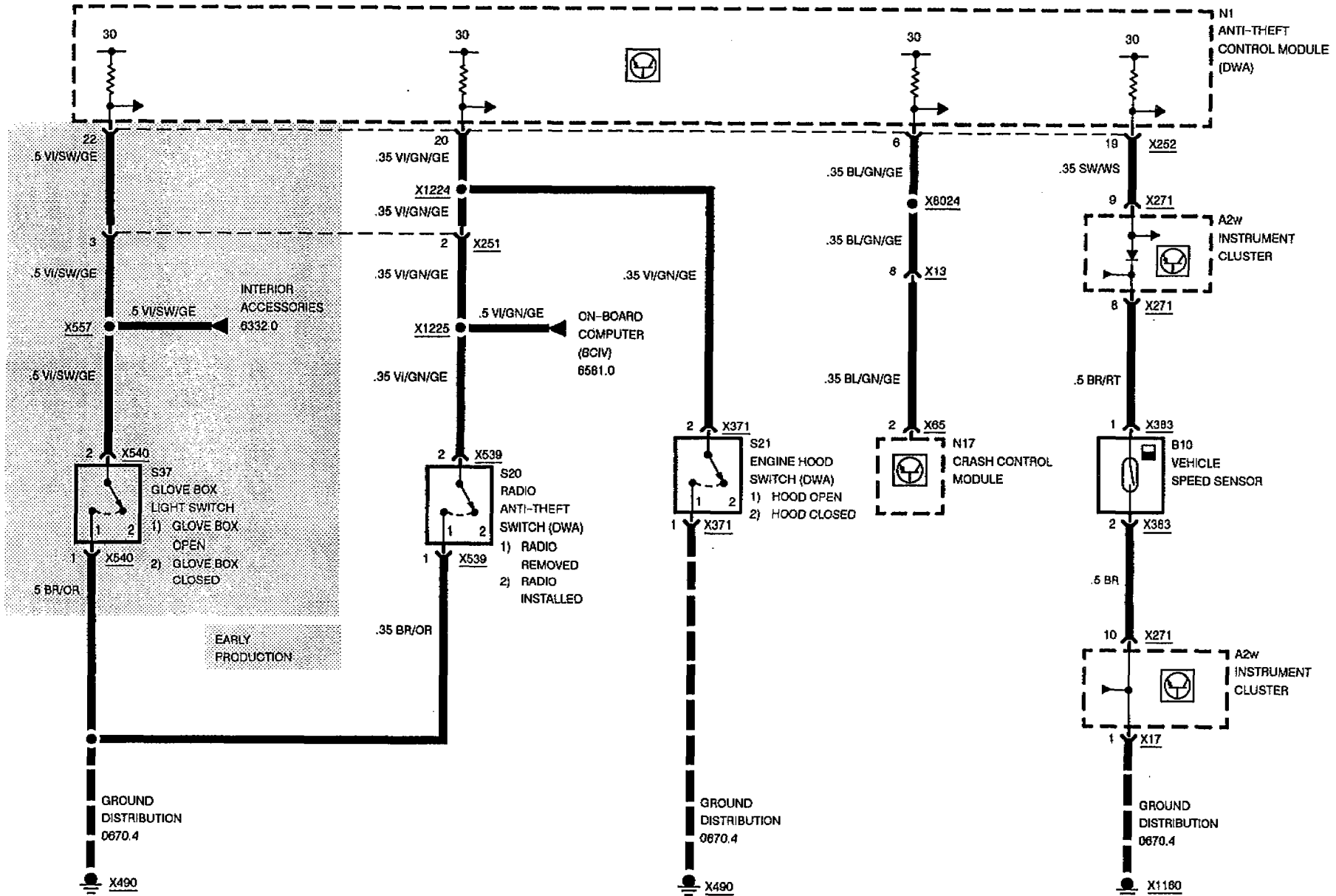


# ANTI-THEFT SYSTEM IV (DWA IV)

## ANTI-THEFT HORN (DWA), BATTERY, REAR SEAT

540i

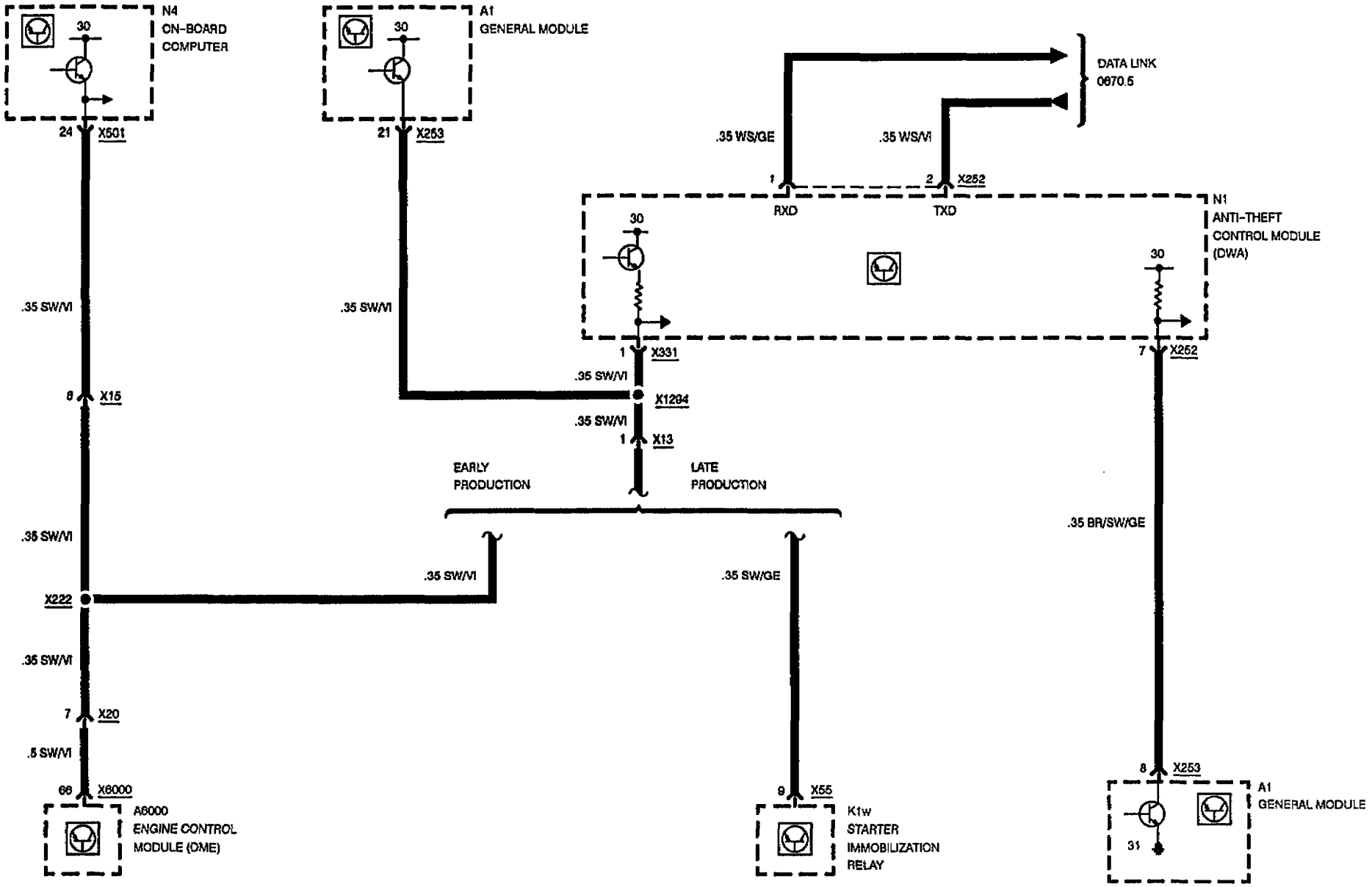






# ANTI-THEFT SYSTEM IV (DWA IV) DATA LINK, DRIVE AWAY PROTECTION (QZV)

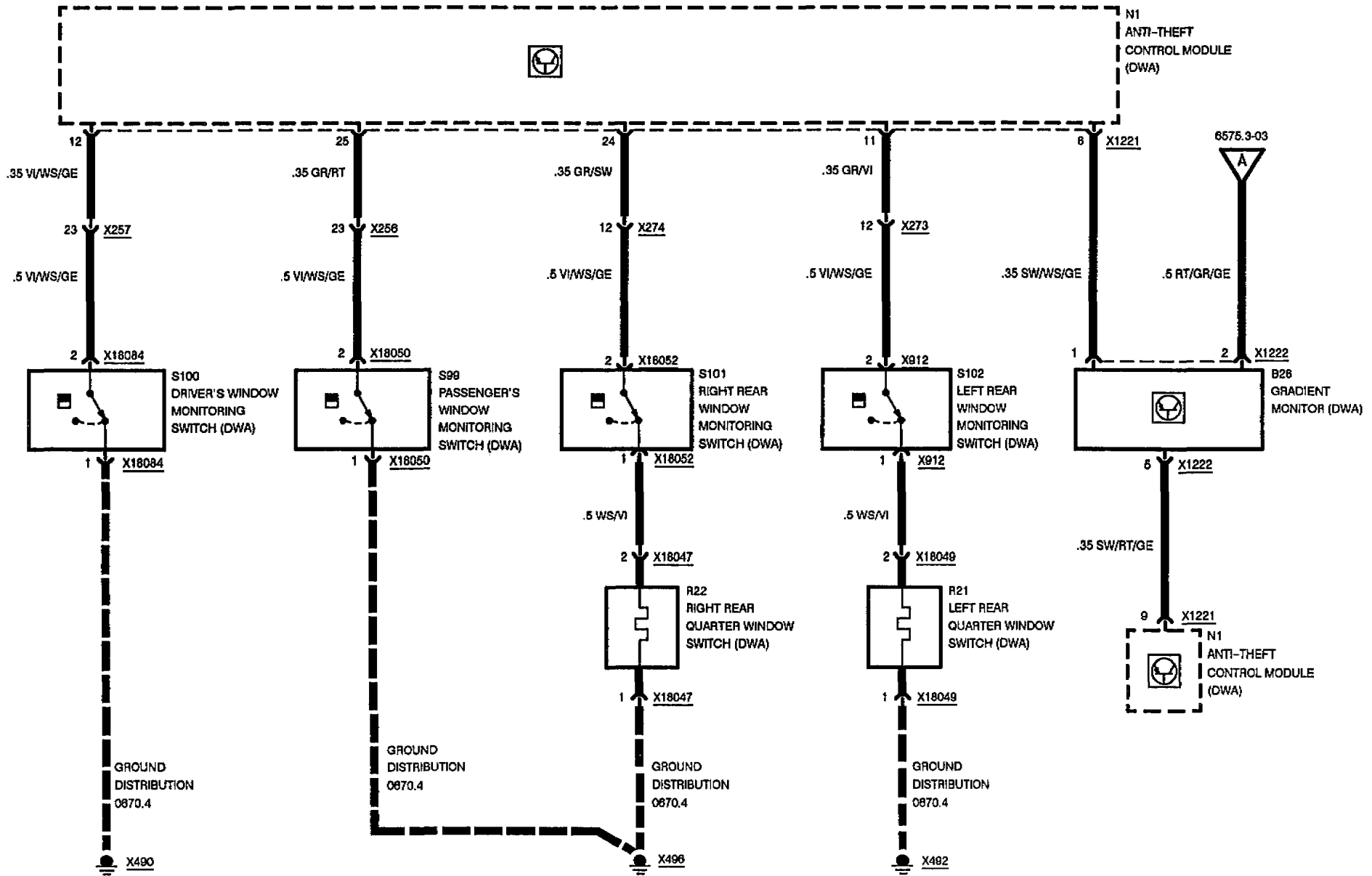
540i



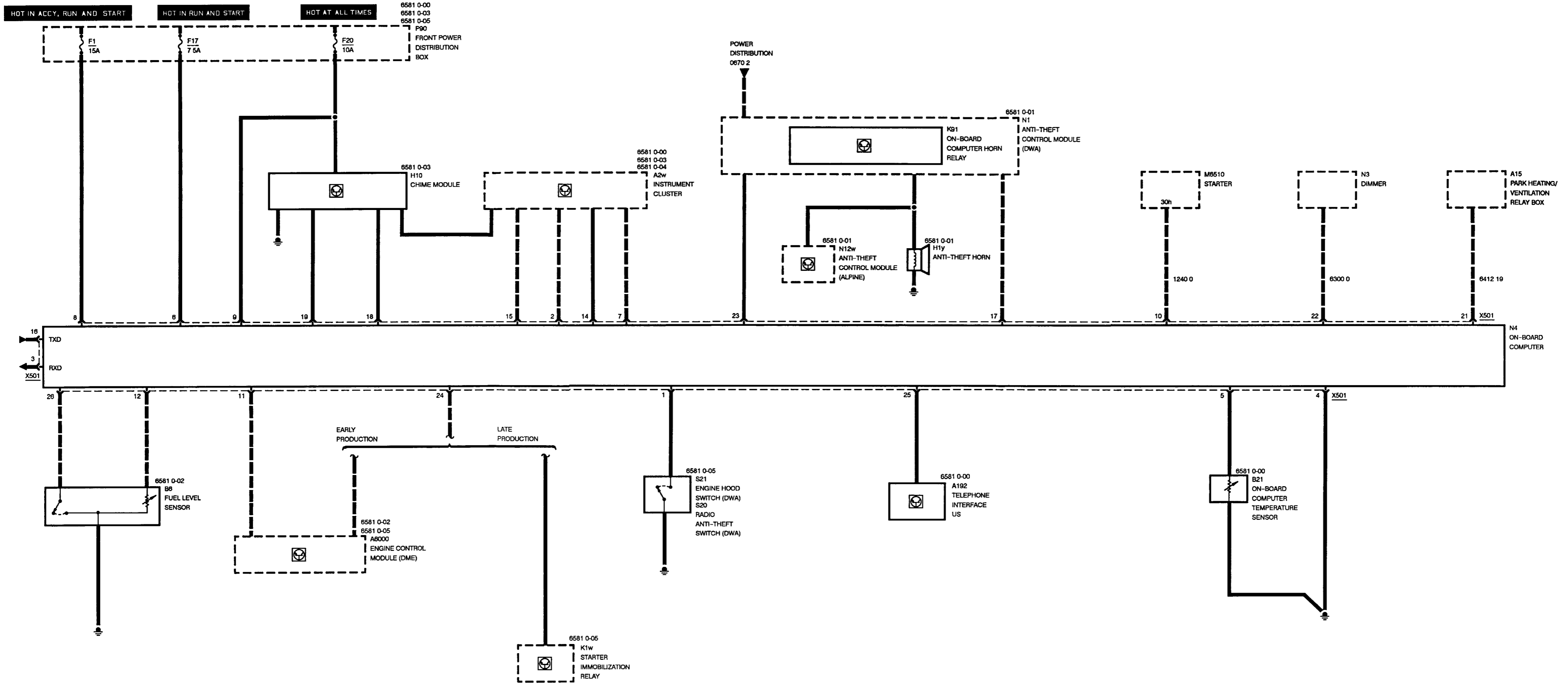


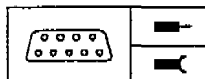
# ANTI-THEFT SYSTEM IV (DWA IV) FRONT AND REAR WINDOW PROTECTION, INCLINATION MONITORING

540i









## Pin Assignments

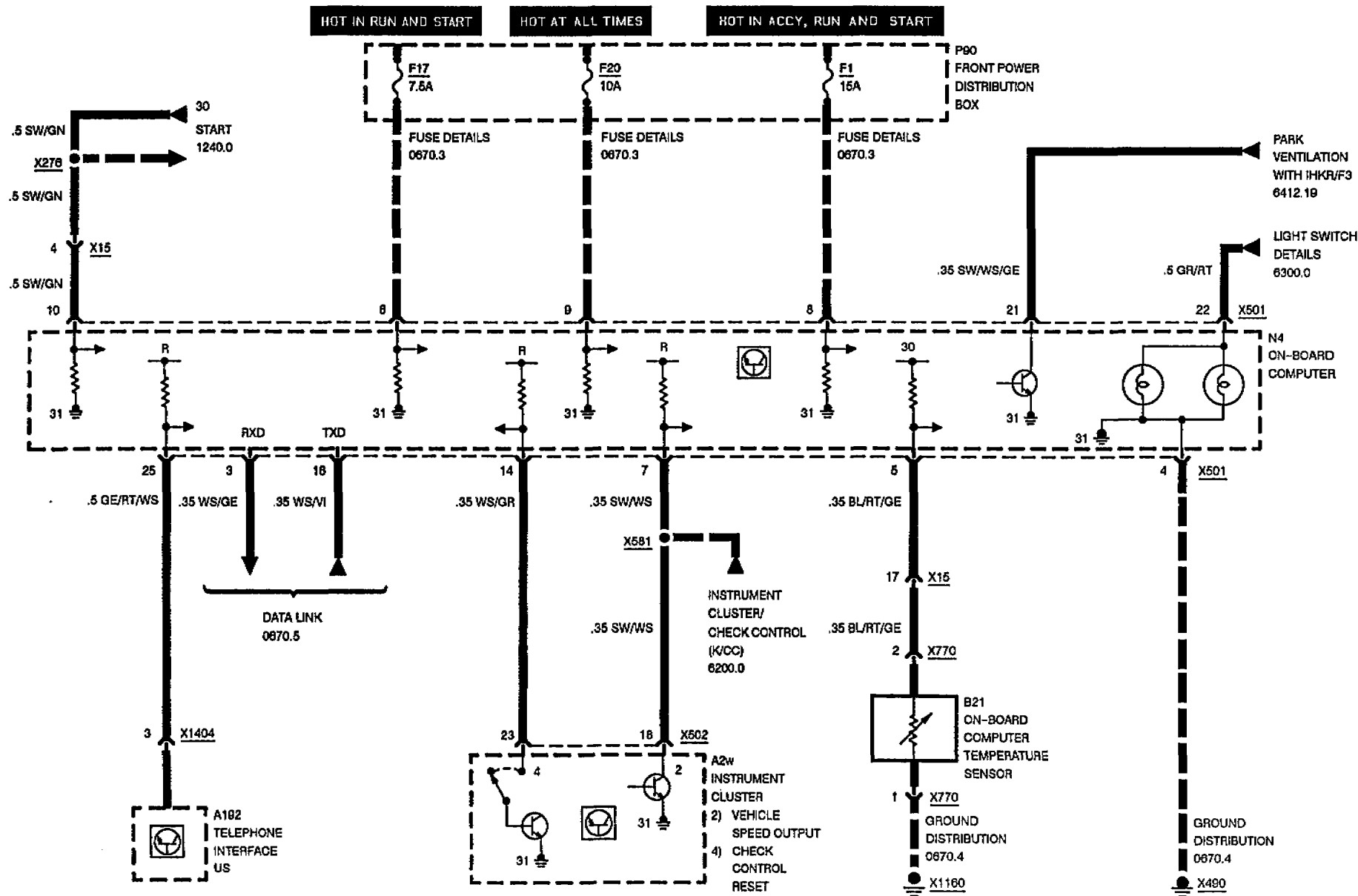
### X501

Pin	Type	Description/Function	Connection
1	E	Hood tamper	Engine hood switch
2	A	DAC line	Instrument cluster
3	E	RxD diagnostic data link	Data link connector
4	M	Ground	Ground point
5	E	Outside temperature	Outside temperature sensor
6	E	Voltage supply, terminal 15	Front power distribution box
7	E	Vehicle speed signal	Instrument cluster
8	E	Voltage supply, terminal R	Front power distribution box
9	E	Voltage supply, terminal 30	Front power distribution box
10	E	Voltage supply, terminal 30h	Starter
11	E	Injection signal	Engine control module (DME)
12	E	Fuel gauge	Fuel tank sensor
13		Not used	
14	E	Check control reset button	Instrument cluster
15	E	LAC line	Instrument cluster
16	E/A	TxD diagnostic data link	Data link connector
17	E	Power input	On-board computer horn relay
18	A	Gong T2 control	Chime module
19	A	Gong T1 control	Chime module
20		Not used	
21	A	Independent ventilation control	Park heating/ventilation relay box
22	E	Instrument illumination, terminal 58g	Dimmer
23	A	On-board computer horn relay control	On-board computer horn relay
24	A	Drive-away protection signal	Engine control module (DME) Starter immobilization relay (Late Production)
25	E	Remote control (telephone)	Phone interface box
26	E	Reserve tank contact	Fuel tank sensor

E = Input, A = Output, M = Ground

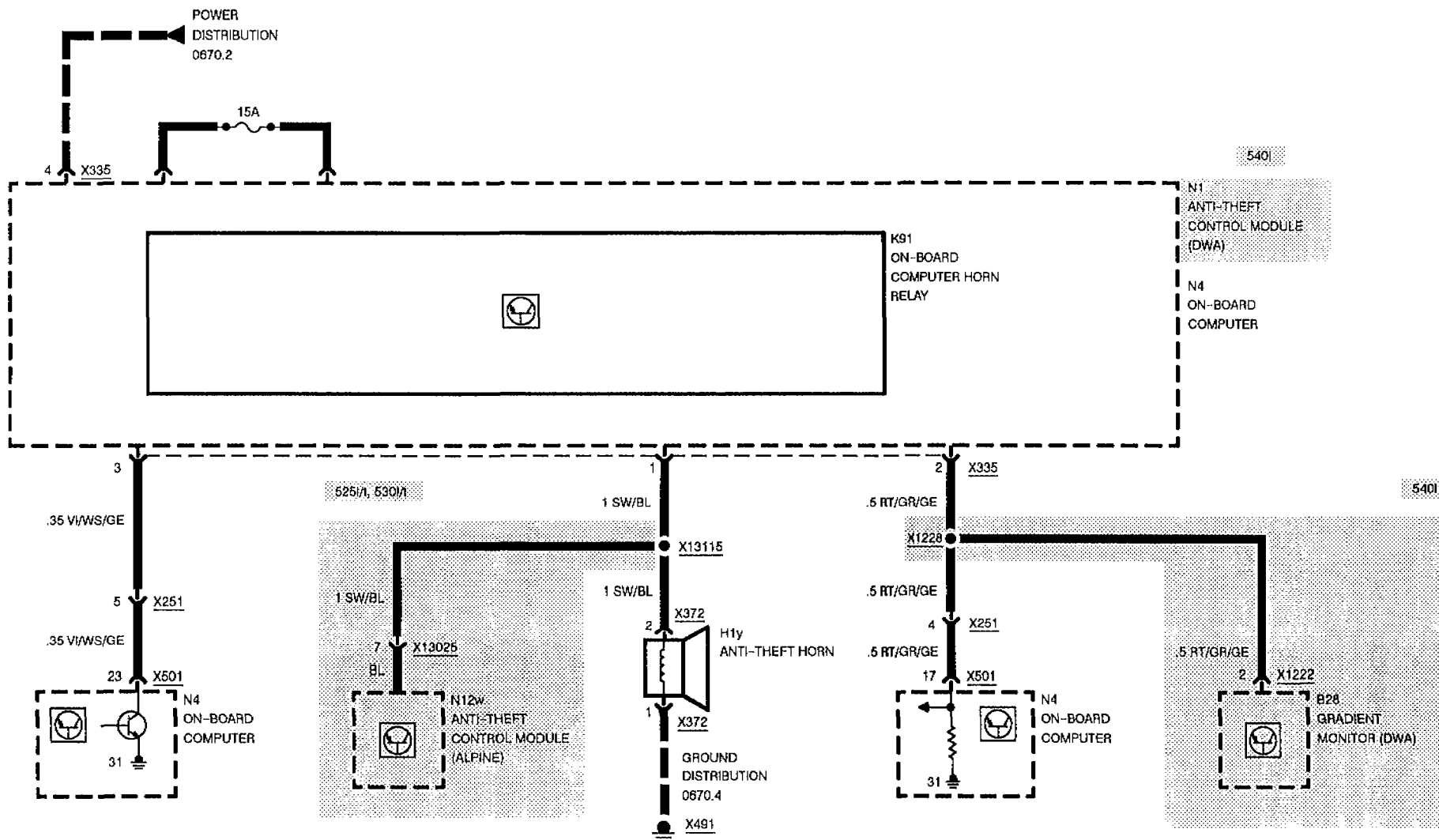


# ON-BOARD COMPUTER (BCIV)





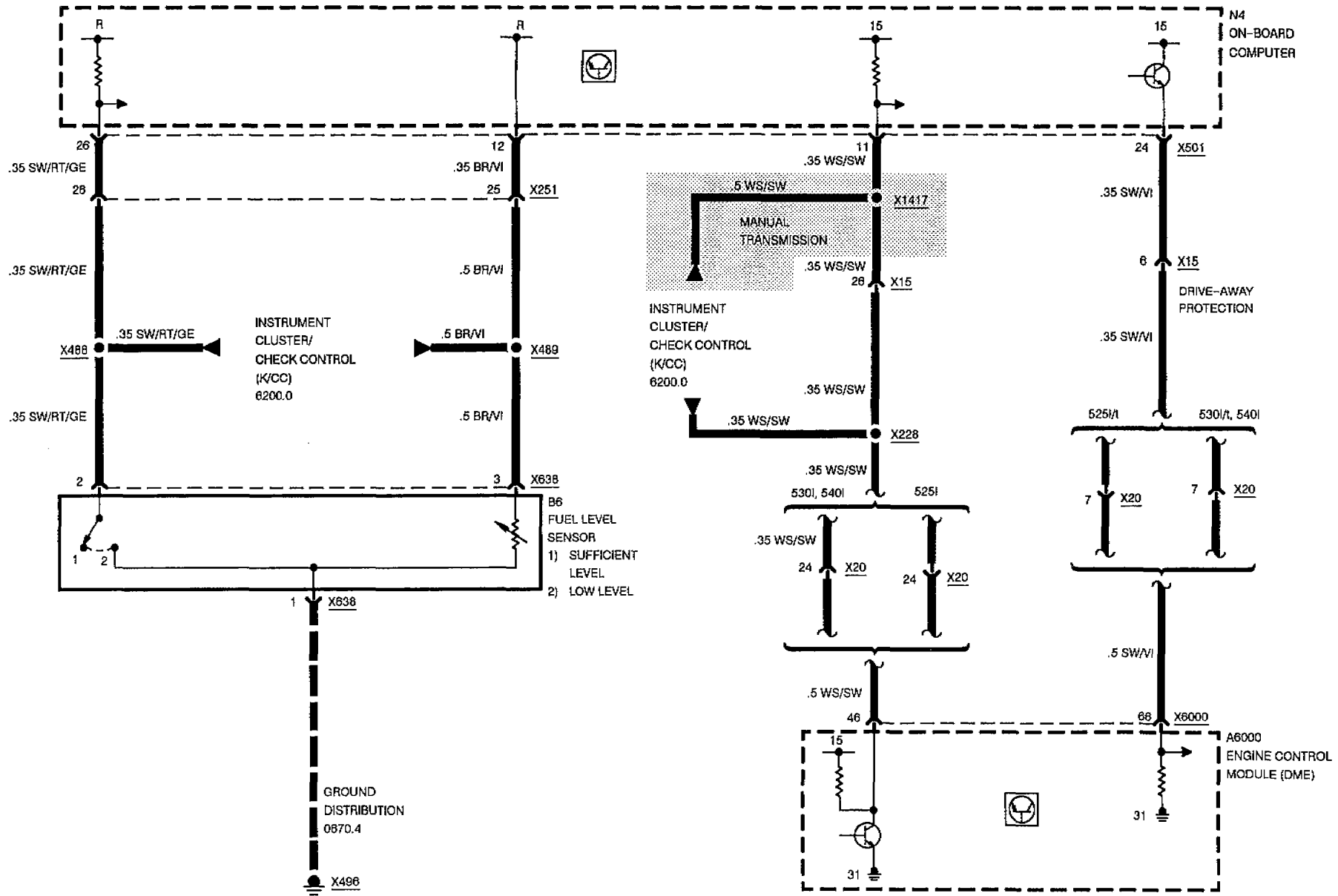
# ON-BOARD COMPUTER (BCIV) ANTI-THEFT HORN





# ON-BOARD COMPUTER (BCIV)

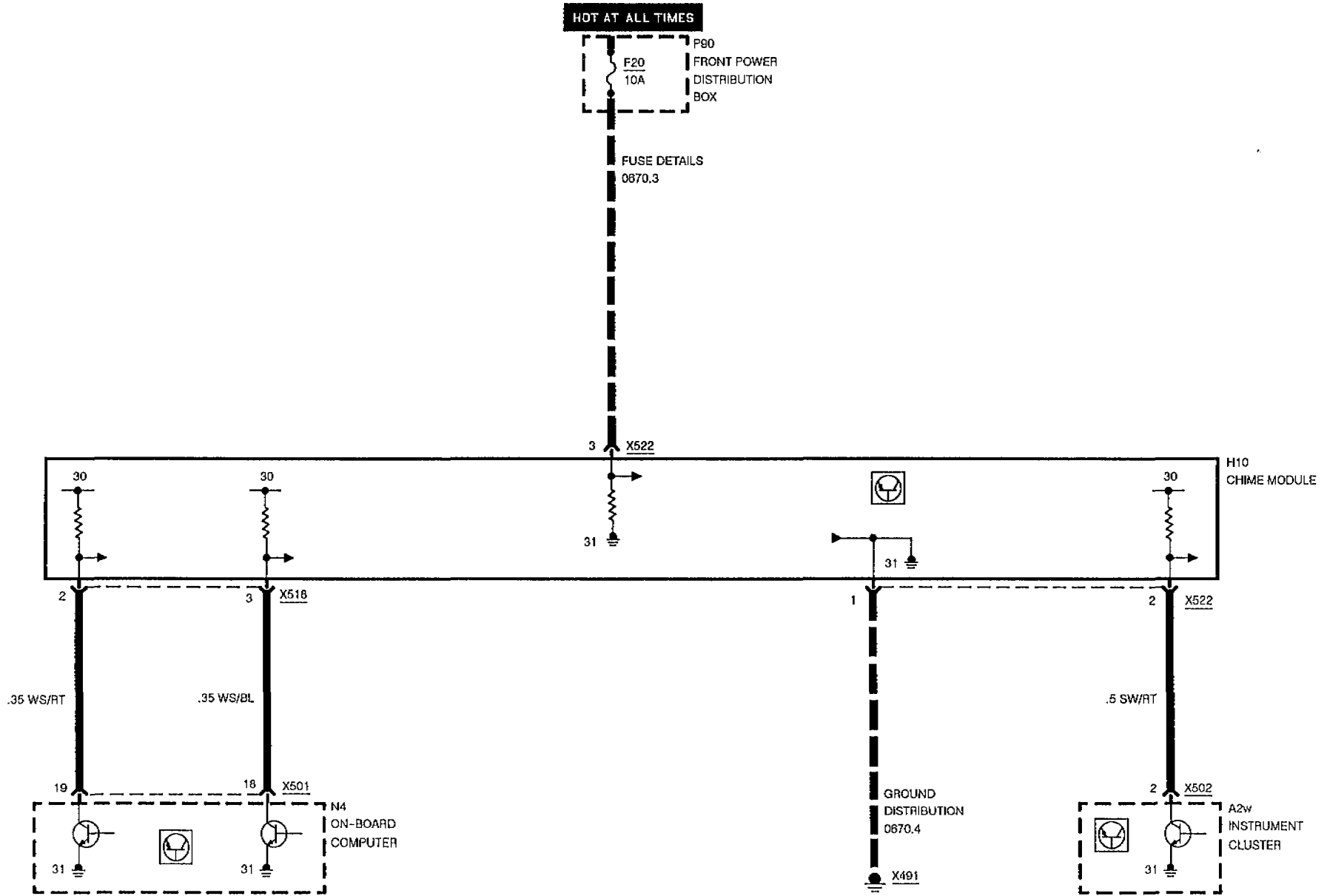
## FUEL GAUGE





# ON-BOARD COMPUTER (BCIV)

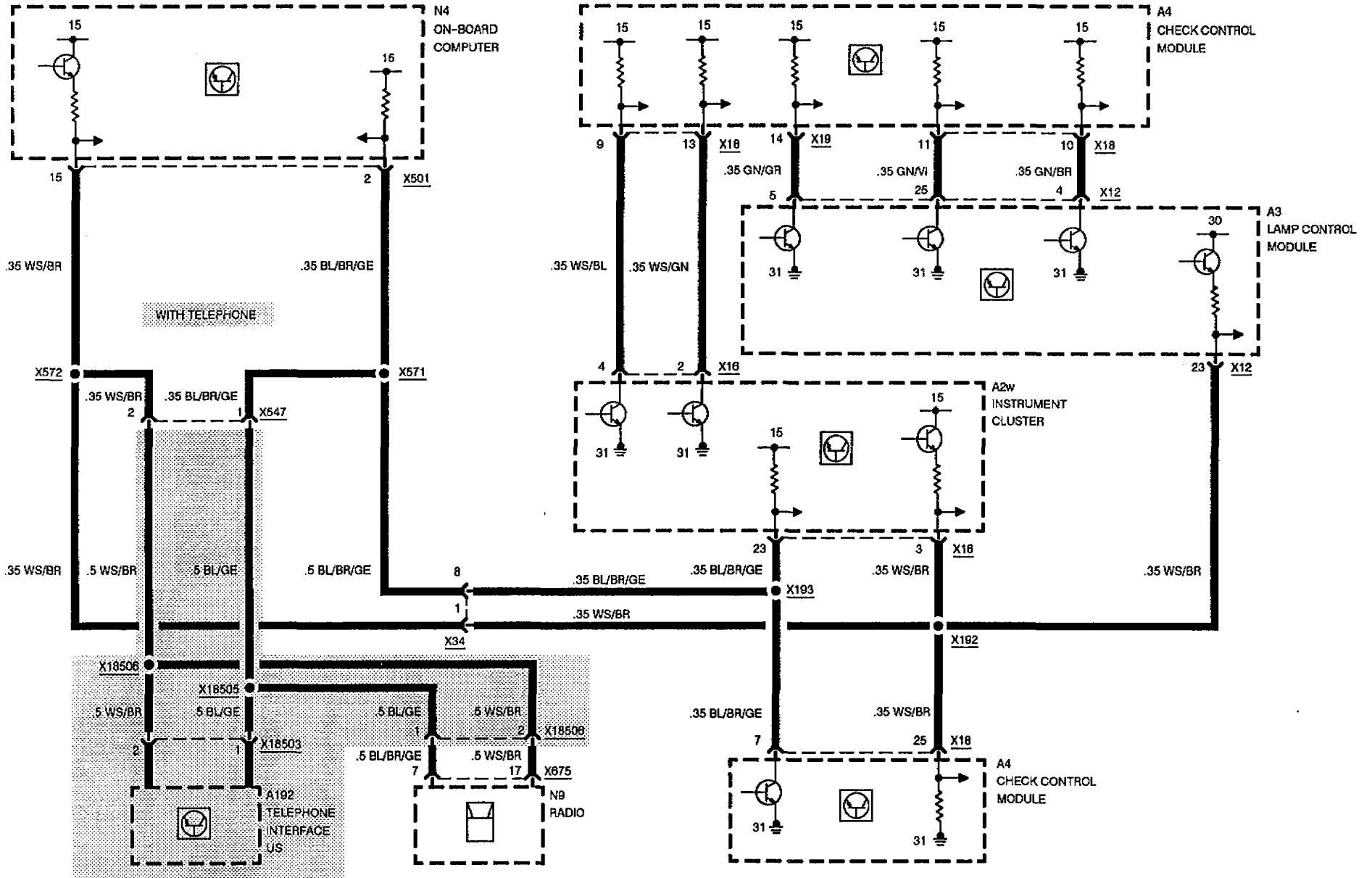
## CHIME MODULE



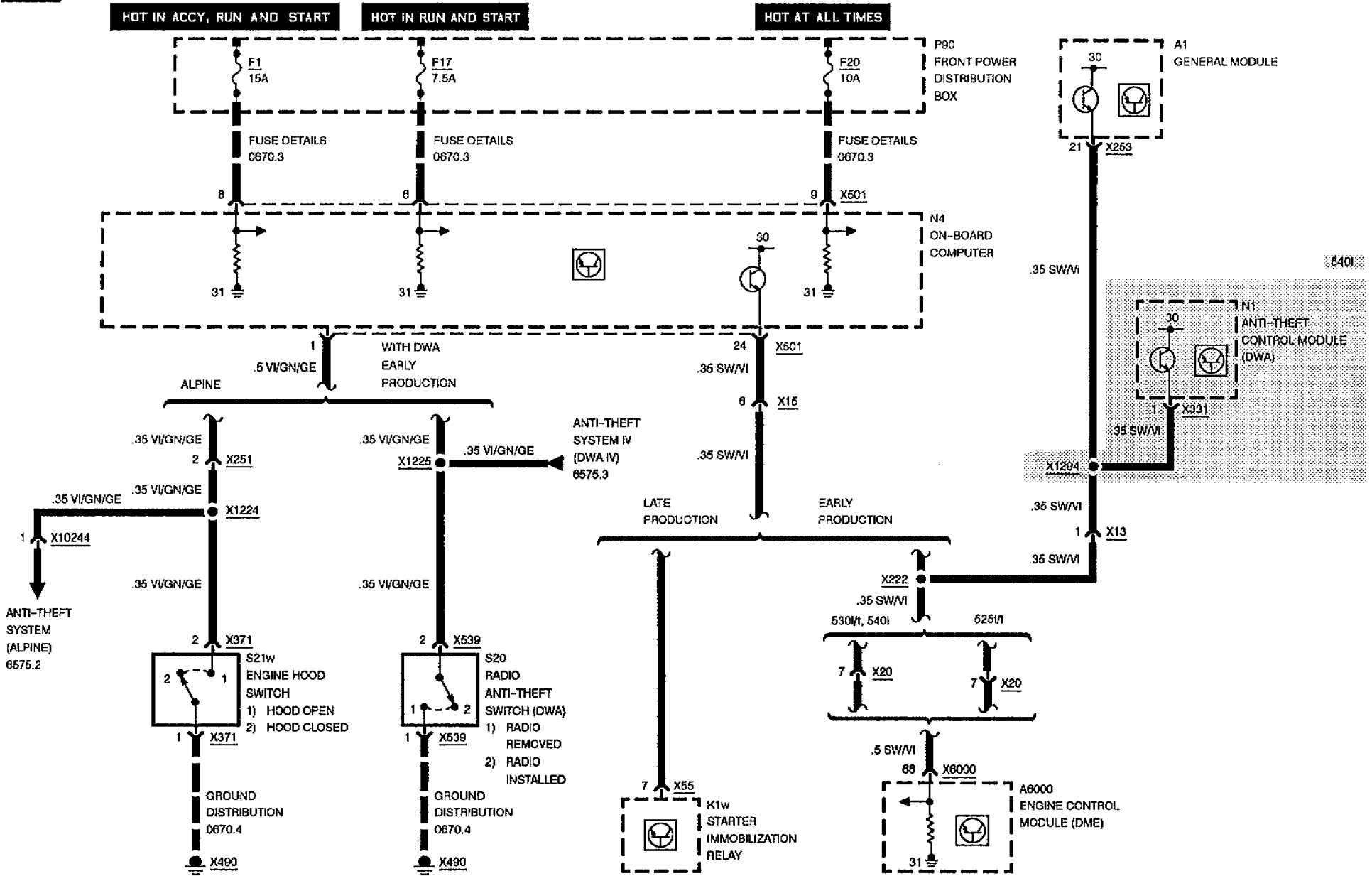


# ON-BOARD COMPUTER (BCIV)

## DATA LINK



# ON-BOARD COMPUTER (BCIV)

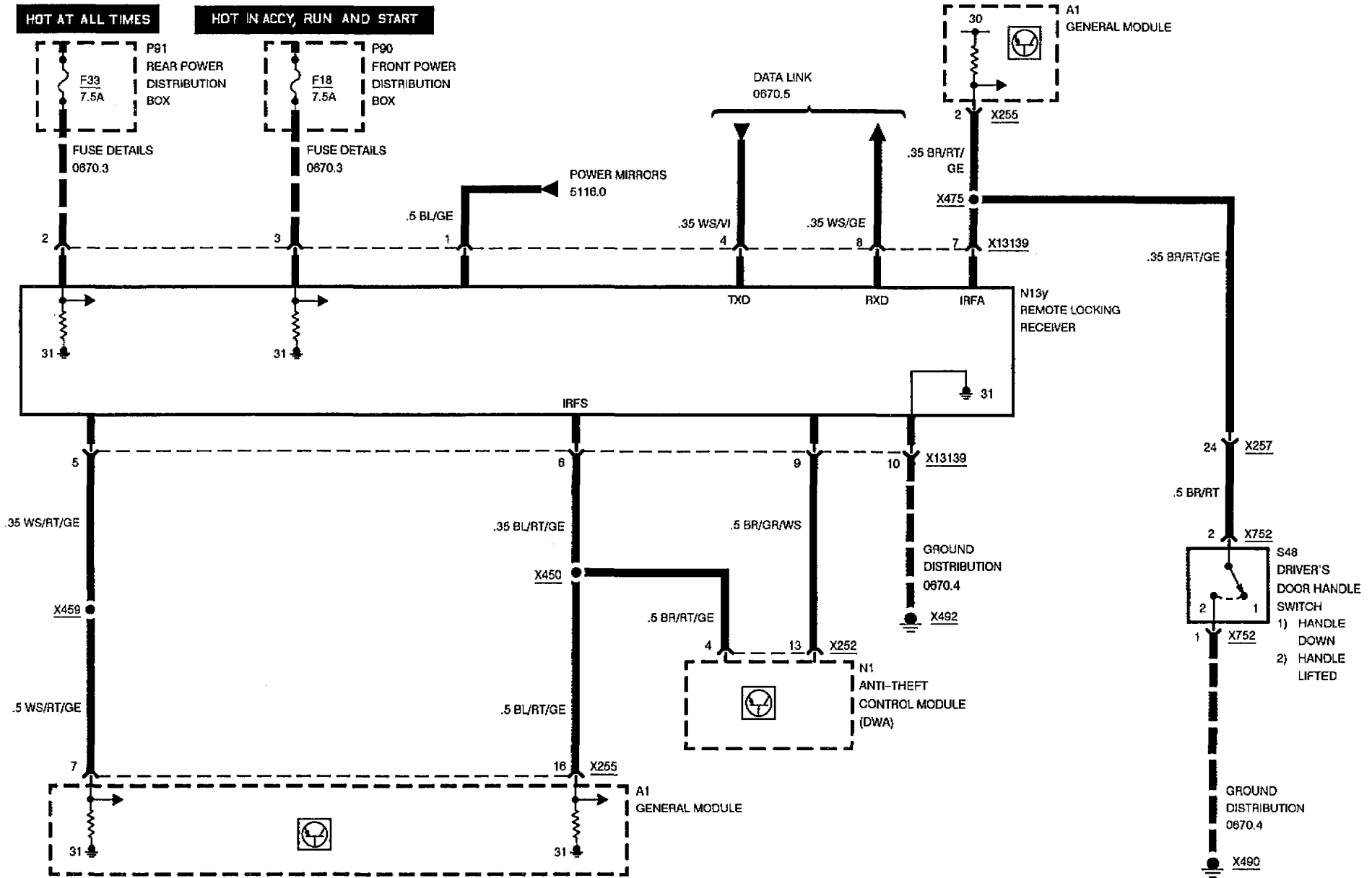






# REMOTE CONTROLLED LOCKING SYSTEM

540i



12/94 ————— 6610.0-00 ————— 1994

BMW  
5

7000.0



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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A1	GENERAL MODULE	In Rear Power Distribution Box	00-3
A3	LAMP CONTROL MODULE	Front Power Distribution Box	00-2
A4	CHECK CONTROL MODULE	Front Power Distribution Box	00-2
A5	RELAY MODULE	In Rear Power Distribution Box	00-3
A7	SLIP CONTROL MODULE (ABS)	In E-Box	00-1
A8	CRUISE CONTROL MODULE (TEMPOMAT)	Behind LH footwell speaker grille	33-2
A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE	Below LH side of rear seat	33-3
A15	PARK HEATING/VENTILATION RELAY BOX	Behind RH footwell speaker grille	
A18	HIFI AMPLIFIER	In LH rear side of luggage compartment	30-1
A18	HIFI AMPLIFIER	In LH rear side of luggage compartment	30-2
A21	SEAT/MIRROR MEMORY CONTROL MODULE	Underside of LH front seat	22-1
A2w	INSTRUMENT CLUSTER	LH side of dash	
A36	REAR WIPER/WASHER INTERVAL CONTROL MODULE	RH side of luggage compartment	30-3
A52	SLIP CONTROL MODULE (ABS/ASC)	In E-Box	00-1
A99	DOUBLE PANEL POWER SUNROOF CONTROL MODULE	In roof panel	29-1
A113	SEAT OCCUPANCY DETECTOR	RH front seat	
A192	TELEPHONE INTERFACE US	Below front of console	



## COMPONENT LOCATION CHART

### COMPONENT

PAGE - FIGURE  
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A87w . . .	INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3) . . . . .	LH side of RH footwell . . . . .	19-3
A6000 . . .	ENGINE CONTROL MODULE (DME) . . . . .	In E-Box . . . . .	00-1
A6007 . . .	ELECTRONIC THROTTLE CONTROL MODULE (ADS II) . . . . .	Behind RH footwell speaker grille . . . . .	35-2
A8500 . . .	TRANSMISSION CONTROL MODULE (EGS) . . . . .	In E-Box . . . . .	00-1
A8600 . . .	TRANSMISSION CONTROL MODULE (AGS) . . . . .	In E-Box . . . . .	00-1
B1 . . . . .	RIGHT FRONT SPEED SENSOR - ABS . . . . .	Behind RH front wheel . . . . .	
B2 . . . . .	LEFT FRONT SPEED SENSOR - ABS . . . . .	Behind LH front wheel . . . . .	09-1
B3 . . . . .	RIGHT REAR SPEED SENSOR - ABS . . . . .	Behind RH rear wheel . . . . .	09-2
B4 . . . . .	LEFT REAR SPEED SENSOR - ABS . . . . .	Behind LH rear wheel . . . . .	
B6 . . . . .	FUEL LEVEL SENSOR . . . . .	In RH side of luggage compartment . . . . .	31-2
B10 . . . . .	VEHICLE SPEED SENSOR . . . . .	Under rear of car . . . . .	09-3
B11 . . . . .	LH HEAT EXCHANGER TEMPERATURE SENSOR . . . . .	LH side of IHKR/F3 Plenum . . . . .	19-2
B12 . . . . .	RH HEAT EXCHANGER TEMPERATURE SENSOR . . . . .	LH side of RH footwell . . . . .	19-3
B13 . . . . .	OUTSIDE TEMPERATURE SENSOR . . . . .	Rear RH side of engine compartment . . . . .	16-3
B14 . . . . .	EVAPORATOR TEMPERATURE SENSOR . . . . .	LH side of IHKR/F3 Plenum . . . . .	19-2
B16 . . . . .	LEFT FRONT BRAKE PAD SENSOR . . . . .	Behind LH front wheel . . . . .	09-1
B17 . . . . .	RIGHT REAR BRAKE PAD SENSOR . . . . .	Behind RH rear wheel . . . . .	09-2
B18 . . . . .	BRAKE FLUID LEVEL SWITCH . . . . .	LH side of engine compartment . . . . .	13-3



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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B21 ...	ON-BOARD COMPUTER TEMPERATURE SENSOR .....	Under LH front bumper .....	10-2
B22 ...	WHEEL CAMBER CONTROL MODULE .....	Under RH rear of car RH side of differential	
B28 ...	GRADIENT MONITOR (DWA) .....	In LH forward side of luggage compartment .....	33-1
B54 ...	DOUBLE PANEL POWER SUN ROOF SENSOR I .....	Behind front of roof trim panel	
B55 ...	DOUBLE PANEL POWER SUN ROOF SENSOR II .....	In roof panel .....	29-1
B60 ...	CARBON CANISTER .....	Behind LH front fog light (530i/t) (540i)	
B8y ...	PRESSURE SWITCH .....	Front RH side of engine compartment	
B9y ...	PRESSURE SWITCH .....	Front RH side of engine compartment	
B400 ..	MICROPHONE .....	Center of dash	
B900 ..	JUMPER PLUG .....	In Front Power Distribution Box .....	11-1
B6163 .	SECONDARY AIR PUMP VALVE .....	Front of engine compartment .....	32-3
B6200 .	HEATED OXYGEN SENSOR .....	On catalytic converter	
B6203 .	CRANKSHAFT POSITION/RPM SENSOR .....	Front RH side of engine compartment .....	05-1
B6204 .	CAMSHAFT POSITION SENSOR (CYLINDER IDENTIFICATION) .....	Front RH side of engine compartment (530i/t) (540i) .....	05-1
B6205 .	INTAKE AIR TEMPERATURE SENSOR .....	Front of engine on coolant inlet .....	14-1
B6206 .	MASS AIR FLOW SENSOR .....	RH front of engine (530i/t) (540i) .....	05-3
B6208 .	CAMSHAFT ACTUATOR .....	Front of engine	
B6209 .	HALL EFFECT CAMSHAFT SENSOR .....	Front of engine (525i/t) .....	13-2
B6209 .	HALL EFFECT CAMSHAFT SENSOR .....	Top front of engine	



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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B6217 .	HOT FILM AIR MASS METER	Top front of engine	
B6230 .	OIL LEVEL SENSOR	Underside of oil pan	10-1
B6231 .	OIL PRESSURE SWITCH	Front of engine (525i/t)	13-2
B6231 .	OIL PRESSURE SWITCH	Lower LH front of engine (530i/t) (540i)	
B6232 .	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine (525i/t)	13-2
B6235 .	TEMPERATURE SWITCH	In E-Box	15-2
B6236 .	ENGINE COOLANT TEMPERATURE SENSOR	Front of engine (525i/t)	13-2
B6236 .	ENGINE COOLANT TEMPERATURE SENSOR	Rear of engine RH side of engine (530i/t) (540i)	
B6241 .	CYL. 1-2 KNOCK SENSOR	LH side of engine (530i/t) (540i)	
B6242 .	CYL. 3-4 KNOCK SENSOR	LH side of engine (530i/t) (540i)	
B6243 .	CYL. 5-6 KNOCK SENSOR	RH side of engine (530i/t) (540i)	
B6244 .	CYL. 7-8 KNOCK SENSOR	RH side of engine (530i/t) (540i)	
B9508 .	PRESSURE SWITCH	Front RH side of engine compartment	16-2
B6210w	CYL. 1-4 HEATED OXYGEN SENSOR	Under transmission (530i/t) (540i)	
B6215w	CYL. 1-8 AIR TEMPERATURE SENSOR	Top front of engine compartment (530i/t) (540i)	08-1
B6220w	CYL. 5-8 HEATED OXYGEN SENSOR	Under transmission (530i/t) (540i)	
B6241w	CYL. 1-3 KNOCK SENSOR	Top front of engine (525i/t)	
B6242w	CYL. 4-6 KNOCK SENSOR	Top front of engine (525i/t)	
C101 ..	CONTACT RING	Top of steering column	20-1
C900 ..	SUPPRESSION FILTER	In upper RH C-pillar	28-2



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
7100.0 8500.0

D100	.. DATA LINK CONNECTOR	.....	Near E-Box left (530i/t) (540i)	.....	05-2
E9	.... REAR DEFOGGER I	.....	In rear window		
E10	.... REAR DEFOGGER/ANTENNA	.....	In rear window		
E11	.... LEFT HIGH BEAM LIGHT	.....	Front of car left		
E12	.... RIGHT HIGH BEAM LIGHT	.....	Front of car right		
E13	.... LEFT LOW BEAM LIGHT	.....	Front of car left		
E14	.... RIGHT LOW BEAM LIGHT	.....	Front of car right		
E15	.... LEFT PARK LIGHT	.....	Front of car left		
E16	.... LEFT REAR LIGHT ASSEMBLY	.....	Rear of car left		
E17	.... RIGHT REAR LIGHT ASSEMBLY	.....	Rear of car right		
E19	.... RIGHT PARK LIGHT	.....	Front of car right		
E21	.... LEFT FRONT MARKER LIGHT	.....	Near LH headlight assembly		
E22	.... RIGHT FRONT MARKER LIGHT	.....	Near RH headlight assembly		
E26	.... LEFT FOG LIGHT	.....	Front of car left		
E27	.... RIGHT FOG LIGHT	.....	Front of car right		
E28	.... FRONT CIGAR LIGHTER	.....	Center console		
E29	.... FRONT CIGAR LIGHTER LIGHT	.....	Center of dash below front of console		
E34	.... FRONT DOME LIGHT/MAP READING ASSEMBLY	.....	Center of windshield header		
E35	.... DRIVER'S MAKEUP MIRROR LIGHT	.....	Center of windshield header		
E36	.... PASSENGER'S MAKEUP MIRROR LIGHT	....	Center of windshield header		



## COMPONENT LOCATION CHART

### COMPONENT

PAGE - FIGURE  
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E39 ... LEFT REAR INTERIOR LIGHT	In upper LH C-pillar	28-3
E40 ... RIGHT REAR INTERIOR LIGHT	In upper RH C-pillar	
E42 ... GLOVE BOX LIGHT	RH side of glove box above	
E43 ... LEFT LICENSE PLATE LIGHT	Underside of trunk lid	
E44 ... RIGHT LICENSE PLATE LIGHT	Underside of trunk lid	
E46 ... LEFT TRUNK LIGHT ASSEMBLY	Underside of trunk lid	
E47 ... RIGHT TRUNK LIGHT ASSEMBLY	Underside of trunk lid	
E48 ... DOOR LOCK HEATER	LH front door in door at key lock assembly	
E51 ... LEFT WASHER JET HEATER	On underside of engine hood	
E52 ... RIGHT WASHER JET HEATER	On underside of engine hood	
E56 ... DRIVER'S SEATBACK HEATER	In lower LH front seatback	
E57 ... DRIVER'S SEAT HEATER	Underside of LH front seat	
E58 ... PASSENGER'S SEAT HEATER	Underside of RH front seat	
E59 ... PASSENGER'S SEATBACK HEATER	In lower RH front seatback	
E62 ... RIGHT FRONT FOOTWELL LIGHT	Center console	
E70 ... LEFT REAR SIDE MARKER LIGHT	Front of car	
E71 ... RIGHT REAR SIDE MARKER LIGHT	Front of car	
E82 ... TRANSMISSION POSITION INDICATOR LIGHT	Center console	
E104 ... THROTTLE FLAP HEATER	Near throttle body (525i/t)	35-1
E33w ... TRUNK LID LIGHT	Underside of trunk lid	





# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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E41z	MIXING ACTUATOR LIGHTS	Center of dash	
E9000	RIGHT FRONT LIGHT ASSEMBLY	Right	
E9001	LEFT FRONT LIGHT ASSEMBLY	Left	
G1	BATTERY	Below RH side of rear seat	27-3
G5	DRIVER'S AIR BAG GAS GENERATOR	Top of steering column	20-1
G6	PASSENGER'S AIR BAG GAS GENERATOR I	RH side of dash	
G6430	B+ JUMP START JUNCTION POINT	Rear LH side of engine compartment (525i/t)	01-1
G6430	B+ JUMP START JUNCTION POINT	Rear RH side of engine compartment (530i/t) (540i)	05-2
G6509	GENERATOR	In the engine compartment	
H2	LEFT HORN	Front LH side of engine compartment	16-1
H3	RIGHT HORN	Front RH side of engine compartment	16-1
H4	RIGHT FRONT TURN LIGHT	Front of car	
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 car	
H10	CHIME MODULE	LH footwell	17-2
H1y	ANTI-THEFT HORN	Rear RH side of engine compartment	16-3
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	LH side of body rear end	



## COMPONENT LOCATION CHART

### COMPONENT

PAGE - FIGURE  
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H27 ... LEFT BACK UP LIGHT .....	LH side of body rear end	
H28 ... RIGHT BACK UP LIGHT .....	RH side of body rear end	
H29 ... RIGHT REAR FOG LIGHT .....	RH side of body rear end	
H30 ... RIGHT TAIL LIGHT .....	RH side of body rear end	
H31 ... RIGHT BRAKE LIGHT .....	RH side of body rear end	
H34 ... HIGH LEVEL STOP LIGHT .....	At back of rear window shelf	
H38 ... TELEPHONE TRANSCEIVER .....	In LH forward side of luggage compartment	
H41 ... LEFT FRONT SPEAKER .....	In upper LH front door	
H50 ... RIGHT FRONT HIGH RANGE SPEAKER .....	In upper RH front door	
H51 ... RIGHT FRONT LOW RANGE SPEAKER .....	Behind RH footwell speaker grille	
H52 ... RIGHT REAR LOW RANGE SPEAKER .....	In roof panel (touring) .....	32-1
H52 ... RIGHT REAR LOW RANGE SPEAKER .....	Under rear window shelf	
H53 ... RIGHT REAR HIGH RANGE SPEAKER .....	In roof panel (touring) .....	32-1
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 .....	In roof panel (touring) .....	32-1
H56 ... LEFT REAR HIGH RANGE SPEAKER .....	Under rear window shelf	
H57 ... LEFT REAR LOW RANGE SPEAKER .....	In roof panel (touring) .....	32-1
H57 ... LEFT REAR LOW RANGE SPEAKER .....	Under rear window shelf	



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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H58 ...	LEFT FRONT LOW RANGE SPEAKER	.....	Behind LH footwell speaker grille	
H59 ...	LEFT FRONT HIGH RANGE SPEAKER	.....	In upper LH front door	
H90 ...	LEFT TRUNK LIGHT	.....	In LH forward side of luggage compartment	
H91 ...	RIGHT TRUNK LIGHT	.....	Underside of trunk lid	
K1 ....	STARTER RELAY	.....	In Front Power Distribution Box	11-1
K2 ....	HORN RELAY	.....	In Front Power Distribution Box	11-1
K3 ....	UNLOADER RELAY, TERMINAL R	.....	In Front Power Distribution Box	11-1
K4 ....	BLOWER RELAY	.....	In Front Power Distribution Box	11-1
K5 ....	WASHER PUMP RELAY	.....	In Front Power Distribution Box	10-3
K8 ....	AUXILIARY WATER PUMP RELAY	.....	In Front Power Distribution Box	11-1
K9 ....	UNLOADER RELAY, TERMINAL 15	.....	In Front Power Distribution Box	10-3
K11 ...	WIPER RELAY	.....	In Rear Power Distribution Box	26-3
K13 ...	REAR DEFOGGER RELAY	.....	In Rear Power Distribution Box	26-3
K15 ...	ELECTRIC POWER PROTECTION RELAY	....	In Rear Power Distribution Box	26-3
K16 ...	HAZARD FLASHER RELAY	.....	In Front Power Distribution Box	11-2
K19 ...	COMPRESSOR CONTROL RELAY	.....	In Front Power Distribution Box	10-3
K1w ...	STARTER IMMOBILIZATION RELAY	.....	Behind LH footwell speaker grille	33-2
K21 ...	NORMAL SPEED RELAY	.....	In LH auxiliary relay box, engine compartment	12-3
K22 ...	HIGH SPEED RELAY	.....	In LH auxiliary relay box, engine compartment	12-3



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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K25 ...	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY .....	Below LH side of dash near hood release lever	
K26 ...	LEFT PARK LIGHT RELAY .....	Below LH side of dash near hood release lever	
K51 ...	JUMPER PLUG FOR HORN/TELEPHONE .....	In Front Power Distribution Box .....	11-2
K61 ...	UNLOADER RELAY, TERMINAL 61 .....	In Front Power Distribution Box .....	11-2
K70 ...	CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV) .....	RH side of luggage compartment .....	30-3
K87 ...	ELECTRIC STEERING COLUMN ADJUSTMENT RELAY .....	Below LH side of dash	
K90 ...	WINDOW MOTOR RELAY .....	RH side of luggage compartment .....	30-3
K91 ...	ON-BOARD COMPUTER HORN RELAY .....	Below LH side of rear seat .....	27-1
K94 ...	ABS PUMP MOTOR RELAY .....	Behind LH footwell speaker grille .....	33-2
K95 ...	VALVE RELAY (ABS/ASC) .....	Behind LH footwell speaker grille .....	33-2
K64w ..	TRUNK LID OPEN WARNING RELAY .....	Rear of luggage compartment	
K6300 .	ENGINE CONTROL MODULE RELAY .....	In E-Box .....	15-1
K6303 .	OXYGEN SENSOR RELAY .....	In E-Box .....	15-1
K6304 .	SECONDARY AIR PUMP RELAY .....	In E-Box .....	15-1
K6301w	FUEL PUMP RELAY .....	In E-Box .....	15-1
M2 ....	FUEL PUMP .....	In RH side of luggage compartment .....	31-2
M3 ....	WIPER MOTOR .....	Behind LH fresh air cowl .....	12-1



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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M4	WASHER PUMP	Front RH side of engine compartment	
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment near windshield washer reservoir	
M9	AUXILIARY FAN MOTOR	Behind front grille	16-1
M12	DRIVER'S DOOR LOCK MOTOR	Driver's door	25-1
M13	PASSENGER'S DOOR LOCK MOTOR	Passenger's door	25-3
M14	RIGHT REAR DOOR LOCK MOTOR	In upper RH rear door	34-3
M15	LEFT REAR DOOR LOCK MOTOR	In upper LH rear door	34-2
M16	GAS FILLER LOCK MOTOR	In RH side of luggage compartment	31-1
M17	TRUNK LOCK MOTOR	Underside of trunk lid	29-2
M20	LEFT REAR WINDOW MOTOR	In lower LH rear door	34-2
M21	DRIVER'S WINDOW MOTOR	Driver's door	25-2
M22	RIGHT REAR WINDOW MOTOR	In lower RH rear door	34-3
M23	PASSENGER'S WINDOW MOTOR	Passenger's door	26-1
M24	SUNROOF MOTOR	Center of windshield header near rear view mirror	21-3
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	Front LH side of engine compartment (530i/t) (540i)	06-1
M25	CRUISE CONTROL ACTUATOR (TEMPOMAT)	LH side of engine compartment (525i/t)	12-2
M30	BLOWER MOTOR	Rear RH side of engine compartment	16-3
M36	FRESH AIR FLAP MOTOR	LH side of IHKR/F3 Plenum	19-2
M40	RECIRCULATION FLAP MOTOR	LH side of IHKR/F3 Plenum	19-2
M50	DRIVER'S SEAT CUSHION TILT MOTOR	Underside of LH front seat	23-2



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
7100.0 8500.0

M51 ... DRIVER'S SEAT MOVEMENT MOTOR	Underside of LH front seat	23-2
M52 ... DRIVER'S SEAT HEIGHT MOTOR	Underside of LH front seat	23-2
M53 ... DRIVER'S SEATBACK RECLINER MOTOR	Underside of LH front seat	23-2
M54 ... DRIVER'S HEADREST MOTOR	In driver's seatback	26-2
M55 ... DRIVER'S SEAT LUMBAR SUPPORT MOTOR	Under LH front seat	
M56 ... PASSENGER'S SEAT LUMBAR SUPPORT MOTOR	Under RH front seat	
M57 ... PASSENGER'S SEAT HEADREST MOTOR	In upper RH front seatback	
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	
M63 ... SECONDARY AIR PUMP	Front RH side of engine compartment	32-2
M65 ... DRIVER'S THIGH SUPPORT MOTOR	Underside of LH front seat	23-2
M66 ... PASSENGER'S THIGH SUPPORT MOTOR	Under RH front seat	
M82 ... STEERING COLUMN LENGTH ADJUST MOTOR	Bottom of steering column	17-3
M87 ... MOTOR DRIVE I DOUBLE PANEL POWER SUNROOF	In roof panel	
M88 ... MOTOR DRIVE II DOUBLE PANEL POWER SUNROOF	In roof panel	29-1
M93 ... AUX. THROTTLE POSITION MOTOR (ADS)	Front LH side of engine compartment (530i/t) (540i)	06-1
M93 ... AUX. THROTTLE POSITION MOTOR (ADS)	Near throttle body (525i/t)	35-1



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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M94 ...	REAR WINDOW WIPER MOTOR	Rear of luggage compartment on lift gate behind trim panel	
M95 ...	REAR WINDOW WASHER PUMP	RH side of luggage compartment	31-3
M96 ...	REAR WINDOW MOTOR	Rear of luggage compartment in lift gate	29-3
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N9 ....	RADIO	Center of dash	20-3
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### COMPONENT

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## COMPONENT

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- S55 ... PASSENGER'S SEAT LUMBAR SUPPORT SWITCH ..... In rear of console
- S57 ... MEMORY SEAT MIRRORS SWITCH ..... In rear of console
- S58 ... DRIVER'S SEAT BELT SWITCH ..... In LH front seat belt buckle
- S59 ... PASSENGER'S SEAT BELT SWITCH ..... In RH front seat belt buckle
- S61 ... TRUNK LID SWITCH ..... Underside of trunk lid left
- S63 ... ENGINE COOLANT LEVEL SWITCH ..... Top center of engine ahead of oil fill cap
- S64 ... WASHER FLUID LEVEL SWITCH ..... Front RH side of engine compartment
- S75 ... BLOWER SWITCH ..... Center of dash middle of heater control panel
- S77 ... DRIVER'S MAKEUP MIRROR SWITCH ..... Above LH sun visor
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- S92 ... BACK UP LIGHT SWITCH (MANUAL TRANSMISSION) ..... Below center console
- S93 ... DRIVER'S THIGH SUPPORT SWITCH ..... LH front seat left
- S94 ... PASSENGER'S THIGH SUPPORT SWITCH ... RH front seat
- S99 ... PASSENGER'S WINDOW MONITORING SWITCH (DWA) ..... RH front door
- S100 .. DRIVER'S WINDOW MONITORING SWITCH (DWA) ..... LH front door
- S101 .. RIGHT REAR WINDOW MONITORING SWITCH (DWA) ..... In lower RH rear door



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S102 ..	LEFT REAR WINDOW MONITORING SWITCH (DWA) .....	In lower LH rear door	
S147 ..	REAR WINDOW OPENING SWITCH .....	On lift gate behind trim panel	
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S170 ..	REAR WINDOW LIMIT SWITCH .....	On lift gate behind trim panel	
S171 ..	LIFT GATE LIMIT SWITCH .....	On lift gate behind trim panel	
S172 ..	LIFT GATE SWITCH .....	Right of lid lock assembly	
S176 ..	REAR WIPER/WASHER FLUID LEVEL SWITCH	RH side of luggage compartment .....	31-3
S198 ..	JET HEATER THERMOSWITCH .....	RH side of engine compartment	
S21w ..	ENGINE HOOD SWITCH .....	Back of LH side shock tower .....	11-2
S119z ..	STEERING COLUMN POSITION SWITCH .....	Below LH side of dash	
S134w ..	IHKR/F3 CONTROL PANEL .....	RH side of LH footwell	
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T6152	. CYL. 2 IGNITION COIL	On cylinder head right (530i/t) (540i)	06-3
T6152	. CYL. 2 IGNITION COIL	RH side of engine (525i/t)	14-2
T6153	. CYL. 3 IGNITION COIL	On cylinder head right (530i/t) (540i)	06-3
T6153	. CYL. 3 IGNITION COIL	RH side of engine (525i/t)	14-2
T6154	. CYL. 4 IGNITION COIL	On cylinder head right (530i/t) (540i)	06-3
T6154	. CYL. 4 IGNITION COIL	RH side of engine (525i/t)	14-2
T6155	. CYL. 5 IGNITION COIL	RH side of engine (525i/t)	14-2
T6155	. CYL. 5 IGNITION COIL	On cylinder head left (530i/t) (540i)	
T6156	. CYL. 6 IGNITION COIL	RH side of engine (525i/t)	14-2
T6156	. CYL. 6 IGNITION COIL	On cylinder head left (530i/t) (540i)	
T6157	. CYL. 7 IGNITION COIL	On cylinder head left (530i/t) (540i)	
T6158	. CYL. 8 IGNITION COIL	On cylinder head left (530i/t) (540i)	
U4	.... TELEPHONE HANDSET	Below center console	
V4	.... DAYTIME RUNNING LIGHTS CODING DIODE	Behind LH side of dash center of windshield header	
V5	.... DWA LED	Center of dash	
V6	.... UNCOUPLING DIODE	RH side of dash behind glove box	
X1	.... B+ JUNCTION POINT	Rear LH side of engine compartment	01-1
X0	.... B+ JUNCTION POINT	Footwell, driver's side	01-3
X2	.... BATTERY B+ START POINT	Rear LH side of engine compartment	01-1
X3	.... B+ JUNCTION POINT	Rear LH side of engine compartment	01-1



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## COMPONENT

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X11 ... CONNECTOR (35-PINS, NATURAL) .....	Rear RH side of engine compartment in E-Box .....		00-3
X12 ... CONNECTOR (35-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		00-2
X13 ... CONNECTOR (21-PINS, WHITE) .....	Behind LH footwell trim .....	19-1	01-3
X14 ... CONNECTOR (30-PINS, YELLOW) .....	Behind LH footwell trim .....	19-1	00-4
X15 ... CONNECTOR (30-PINS, WHITE) .....	LH footwell .....	18-3	00-4
X16 ... CONNECTOR (26-PINS, NATURAL) .....	Rear side of A2w Instrument cluster .....	20-2	01-1
X17 ... CONNECTOR (6-PINS, BROWN) .....	Rear side of A2w Instrument cluster .....	20-2	01-4
X18 ... CONNECTOR (26-PINS, BLUE) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		01-1
X19 ... CONNECTOR (26-PINS, GREEN) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		01-1
X20 ... CONNECTOR (25-PINS, BLACK) .....	Rear LH side of engine compartment .....	11-3	03-4
X22 ... CONNECTOR (26-PINS, BLUE) .....	Behind LH footwell speaker grille .....	33-2	01-1
X31 ... CONNECTOR (12-PINS, BLACK) .....	LH side of engine compartment .....	13-3	
X32 ... CONNECTOR (12-PINS, WHITE) .....	LH footwell .....	18-2	06-4
X33 ... CONNECTOR (12-PINS, BLACK) .....	LH footwell .....	18-2	06-4
X34 ... CONNECTOR (12-PINS, WHITE) .....	LH footwell .....	18-3	06-4
X35 ... CONNECTOR (21-PINS, BLACK) .....	LH footwell .....	18-3	01-3
X51 ... CONNECTOR (10-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		07-6
X52 ... CONNECTOR (9-PINS, BLACK) .....	In LH auxiliary relay box, engine compartment .....	12-3	02-3
X53 ... CONNECTOR (9-PINS, BLACK) .....	In LH auxiliary relay box, engine compartment .....	12-3	02-3
X55 ... CONNECTOR (9-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		02-3



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X56 ... CONNECTOR (10-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		07-6
X57 ... CONNECTOR (9-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		02-3
X58 ... CONNECTOR (9-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		02-3
X61 ... CONNECTOR (9-PINS, BLACK) .....	In LH auxiliary relay box, engine compartment .....	12-3	02-3
X63 ... CONNECTOR (9-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		02-3
X64 ... CONNECTOR (9-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		02-3
X65 ... CONNECTOR (9-PINS, BLACK) .....	Rear LH side of engine compartment in Front Power Distribution Box .....		02-3
X70 ... CONNECTOR (8-PINS, BLACK) .....	Front LH side of engine compartment (530i/t) (540i) .....	06-1	01-5
X70 ... CONNECTOR (8-PINS, BLACK) .....	LH side of engine compartment ahead of LH side shock tower (525i/t) .....		01-5
X72 ... CONNECTOR (8-PINS, WHITE) .....	LH footwell .....	18-2	06-1
X74 ... CONNECTOR (30-PINS, ORANGE) .....	Below rear seat .....		07-2
X82 ... CONNECTOR (3-PINS, BLACK) .....	Front of engine compartment behind front grille .....		04-5
X85 ... CONNECTOR (3-PINS, BLACK) .....	LH side of engine compartment .....		04-5
X87 ... CONNECTOR (3-PINS, BLACK) .....	Front RH side of engine compartment near windshield washer reservoir RH top of radiator .....	15-3	02-5
X91 ... CONNECTOR (3-PINS, BLACK) .....	LEFT FRONT LIGHT ASSEMBLY, E9001 .....		04-3
X92 ... CONNECTOR (3-PINS, BLACK) .....	RIGHT FRONT LIGHT ASSEMBLY, E9000 .....		04-3
X105 .. CONNECTOR (2-PINS, GRAY) .....	On underside of engine hood		
X106 .. CONNECTOR (2-PINS, GRAY) .....	On underside of engine hood		
X107 .. CONNECTOR (2-PINS, GRAY) .....	Front RH side of engine compartment on washer fluid reservoir		



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## COMPONENT

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X109	.. CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment on washer fluid reservoir	
X111	.. CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	13-3
X112	.. CONNECTOR (2-PINS, BLACK)	Top center of engine ahead of oil fill cap (with EML)	
X113	.. CONNECTOR (2-PINS, NATURAL)	Near base of shock tower	
X114	.. CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	13-3
X116	.. CONNECTOR (4-PINS, BLACK)	On brake pedal (530i/t) (540i)	18-3 06-3
X118	.. CONNECTOR (2-PINS, BLACK)	Behind LH front wheel	09-1
X121	.. CONNECTOR (2-PINS, WHITE)	LH side of dash on clutch pedal support bracket	17-2
X122	.. CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment	11-3
X123	.. CONNECTOR (2-PINS, GRAY)	Front RH side of engine compartment near windshield washer reservoir	
X126	.. CONNECTOR (2-PINS, NATURAL)	Front RH side of engine compartment	16-2
X127	.. CONNECTOR (2-PINS, BLACK)	Front RH side of engine compartment	16-2
X128	.. CONNECTOR (2-PINS, BLACK)	LEFT FRONT TURN LIGHT, H7	
X129	.. CONNECTOR (2-PINS, GRAY)	LEFT PARK LIGHT, E15	
X130	.. CONNECTOR (2-PINS, YELLOW)	LEFT LOW BEAM LIGHT, E13	
X131	.. CONNECTOR (2-PINS, WHITE)	LEFT HIGH BEAM LIGHT, E11	
X132	.. CONNECTOR (2-PINS, BLACK)	LEFT HORN, H2	
X133	.. CONNECTOR (2-PINS, BLACK)	RIGHT HORN, H3	
X134	.. CONNECTOR (2-PINS, WHITE)	RIGHT HIGH BEAM LIGHT, E12	
X135	.. CONNECTOR (2-PINS, YELLOW)	RIGHT LOW BEAM LIGHT, E14	





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## COMPONENT

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X136 ..	CONNECTOR (2-PINS, GRAY) .....	RIGHT PARK LIGHT, E19		
X137 ..	CONNECTOR (2-PINS, BLACK) .....	RIGHT FRONT TURN LIGHT, H4		
X138 ..	CONNECTOR (2-PINS, BLACK) .....	HIGH LEVEL STOP LIGHT, H34		
X147 ..	CONNECTOR (2-PINS, BLACK) .....	REAR WIPER/WASHER FLUID LEVEL SWITCH, S176 .....	31-3	
X159 ..	CONNECTOR (10-PINS, BLACK) .....	Driver's door DRIVER'S SIDE MEMORY MIRROR, Y9 .....		09-1
X160 ..	CONNECTOR (10-PINS, BLACK) .....	PASSENGER'S SIDE MEMORY MIRROR, Y10passenger's door .....	25-3	09-1
X163 ..	CONNECTOR (3-PINS, BLACK) .....	Front RH side of engine compartment on A/C compressor .....	05-1	02-5
X165 ..	GROUND .....	LH footwell .....	02-1	
X166 ..	GROUND .....	Under RH front of car .....	04-1	
X167 ..	GROUND .....	Front LH side of engine compartment .....	03-2	
X168 ..	CONNECTOR (1-PINS, BLACK) .....	Underside of steering column		
X170 ..	GROUND .....	LH side of engine compartment .....	02-2	
X175 ..	GROUND .....	Front LH side of engine compartment .....	03-2	
X179 ..	GROUND .....	Under RH front of car .....	04-1	
X251 ..	CONNECTOR (30-PINS, BLACK) .....	LH footwell .....	18-3	11-1
X252 ..	CONNECTOR (26-PINS, GREEN) .....	Below LH side of rear seat .....	33-3	01-1
X253 ..	CONNECTOR (26-PINS, GREEN) .....	Below LH side of rear seat in Rear Power Distribution Box .....		01-1
X254 ..	CONNECTOR (26-PINS, WHITE) .....	Below LH side of rear seat in Rear Power Distribution Box .....		01-1
X255 ..	CONNECTOR (26-PINS, YELLOW) .....	Below LH side of rear seat in Rear Power Distribution Box .....		01-1
X256 ..	CONNECTOR (26-PINS, BLACK) .....	Ahead of RH front door .....	24-2	08-1



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## COMPONENT

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X257	.. CONNECTOR (26-PINS, BLACK)	..... In lower LH front door ahead of LH front door	..... 24-2	08-1
X258	.. CONNECTOR (20-PINS, WHITE)	..... Below LH side of rear seat		08-4
X259	.. CONNECTOR (20-PINS, BLACK)	..... Below LH side of rear seat front of battery		08-4
X271	.. CONNECTOR (12-PINS, GRAY)	..... Rear side of A2w Instrument cluster	..... 20-2	08-2
X272	.. CONNECTOR (12-PINS, BLACK)	..... Below LH side of rear seat in Rear Power Distribution Box		06-4
X273	.. CONNECTOR (12-PINS, BLACK)	..... Ahead of LH rear door in wire grommet	..... 24-3	10-3
X274	.. CONNECTOR (12-PINS, BLACK)	..... Ahead of RH rear door in wire grommet	..... 24-3	10-3
X275	.. CONNECTOR (12-PINS, WHITE)	..... Underside of LH front seat	..... 24-1	02-1
X279	.. CONNECTOR (12-PINS, WHITE)	..... Under RH front seat		02-1
X292	.. CONNECTOR (9-PINS, WHITE)	..... Below LH side of rear seat in Rear Power Distribution Box		02-3
X293	.. CONNECTOR (9-PINS, WHITE)	..... Below LH side of rear seat in Rear Power Distribution Box		02-3
X294	.. CONNECTOR (9-PINS, WHITE)	..... Below LH side of rear seat in Rear Power Distribution Box		02-3
X295	.. CONNECTOR (8-PINS, BLACK)	..... LH footwell	..... 18-2	06-1
X297	.. CONNECTOR (9-PINS, WHITE)	..... Below LH side of dash		02-3
X311	.. CONNECTOR (3-PINS, BLACK)	..... Underside of trunk lid	..... 29-2	
X312	.. CONNECTOR (2-PINS, BLACK)	..... In RH side of luggage compartment		
X315	.. CONNECTOR (2-PINS, WHITE)	..... Underside of trunk lid	..... 29-2	
X316	.. CONNECTOR (6-PINS, WHITE)	..... Center console		05-5
X317	.. CONNECTOR (6-PINS, BLACK)	..... Center console		05-4
X318	.. CONNECTOR (4-PINS, BLACK)	..... In LH rear side of luggage compartment RIGHT REAR LIGHT ASSEMBLY, E17		06-3



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## COMPONENT

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X319 .. CONNECTOR (4-PINS, BLACK) .....	In LH rear side of luggage compartment LEFT REAR LIGHT ASSEMBLY, E16 .....	06-3
X322 .. CONNECTOR (8-PINS, BLACK) .....	Below LH side of rear seat in Rear Power Distribution Box .....	11-2
X328 .. CONNECTOR (4-PINS, BLACK) .....	Underside of trunk lid .....	29-2 06-3
X328 .. CONNECTOR (4-PINS, BLACK) .....	In lift gate (touring) .....	29-3 06-3
X329 .. CONNECTOR (4-PINS, BLACK) .....	Underside of trunk lid LEFT TRUNK LIGHT ASSEMBLY, E46 .....	06-3
X331 .. CONNECTOR (5-PINS, BLACK) .....	Below LH side of rear seat .....	33-3 02-4
X332 .. CONNECTOR (5-PINS, NATURAL) .....	Below LH side of rear seat in Rear Power Distribution Box .....	03-2
X333 .. CONNECTOR (4-PINS, BLACK) .....	Behind LH fresh air cowl .....	12-1 08-6
X335 .. CONNECTOR (4-PINS, BLACK) .....	Below LH side of rear seat .....	33-3 02-6
X336 .. CONNECTOR (4-PINS, WHITE) .....	Center of windshield header near rear view mirror .....	21-3 06-5
X337 .. CONNECTOR (4-PINS, BLACK) .....	Below LH side of rear seat .....	26-3 06-3
X342 .. CONNECTOR (4-PINS, NATURAL) .....	Behind glove box .....	34-1 06-3
X351 .. CONNECTOR (2-PINS, BLACK) .....	Ahead of RH rear door	
X352 .. CONNECTOR (2-PINS, BLACK) .....	Ahead of LH rear door	
X353 .. CONNECTOR (2-PINS, BLACK) .....	Front LH door pillar	
X354 .. CONNECTOR (2-PINS, BLACK) .....	LH rear door jamb	
X355 .. CONNECTOR (3-PINS, WHITE) .....	In upper RH C-pillar .....	05-2
X356 .. CONNECTOR (4-PINS, BLACK) .....	In lower RH C-pillar .....	28-3 11-6
X371 .. CONNECTOR (2-PINS, BLACK) .....	LH side of windshield header above LH visor	
X372 .. CONNECTOR (2-PINS, GRAY) .....	Rear RH side of engine compartment	



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## COMPONENT

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X374	.. CONNECTOR (2-PINS, BLACK)	..... Below RH side of rear seat In lower LH front door	
X375	.. CONNECTOR (2-PINS, BLACK)	..... Below RH side of rear seat	27-2
X376	.. CONNECTOR (2-PINS, WHITE)	..... Below LH side of rear seat	27-1
X377	.. CONNECTOR (2-PINS, WHITE)	..... Below RH side of rear seat	27-2
X379	.. CONNECTOR (1-PINS, BLACK)	..... in upper LH C-pillar	28-3
X380	.. CONNECTOR (1-PINS, BROWN)	..... In upper RH C-pillar	28-2
X381	.. CONNECTOR (2-PINS, BLACK)	..... DRIVER'S MAKEUP MIRROR LIGHT, E35	
X382	.. CONNECTOR (2-PINS, BLACK)	..... PASSENGER'S MAKEUP MIRROR LIGHT, E36	
X383	.. CONNECTOR (2-PINS, YELLOW)	..... Under rear of car near differential	09-3
X388	.. CONNECTOR (2-PINS, BLACK)	..... Below LH side of rear seat	
X400	.. CONNECTOR (8-PINS, BLACK)	..... In LH forward side of luggage compartment	11-2
X401	.. CONNECTOR (1-PINS, BLACK)	..... DRIVER'S MAKEUP MIRROR SWITCH, S77	
X402	.. CONNECTOR (1-PINS, BLACK)	..... PASSENGER'S MAKEUP MIRROR SWITCH, S78	
X411	.. CONNECTOR (2-PINS, (---))	..... Front of car LEFT REAR SIDE MARKER LIGHT, E70	
X416	.. CONNECTOR (1-PINS, BLACK)	..... Above LH sun visor	
X417	.. CONNECTOR (1-PINS, BLACK)	..... Under roof center panel	
X423	.. CONNECTOR (1-PINS, (---))	..... Below center of console	
X424	.. CONNECTOR (1-PINS, BROWN)	..... In upper LH C-pillar	28-3
X490	.. GROUND	..... LH footwell	02-1
X491	.. GROUND	..... LH footwell	02-1



# COMPONENT LOCATION CHART

## COMPONENT

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X492	GROUND	Below LH side of rear seat	04-3
X493	GROUND	Below LH side of rear seat	04-3
X495	GROUND	Underside of RH rear seat	04-2
X496	GROUND	Underside of RH rear seat	04-2
X501	CONNECTOR (26-PINS, GREEN)	Center of dash ON-BOARD COMPUTER, N4	01-1
X502	CONNECTOR (26-PINS, BLACK)	Rear side of A2w instrument cluster	20-2 01-1
X503	CONNECTOR (12-PINS, BLACK)	LH side of dash	05-6
X504	CONNECTOR (12-PINS, BLACK)	FOG LIGHT SWITCH, S10	05-6
X506	CONNECTOR (12-PINS, BLACK)	Front of gearshift selector	21-2 06-4
X509	CONNECTOR (9-PINS, WHITE)	Below LH side of dash near hood release lever	02-3
X510	CONNECTOR (9-PINS, WHITE)	Below LH side of dash near hood release lever	02-3
X511	CONNECTOR (8-PINS, BLACK)	Front of gearshift selector	21-2 03-1
X512	CONNECTOR (8-PINS, BLACK)	Behind glove box	34-1 03-1
X516	CONNECTOR (5-PINS, BLACK)	Center of console HAZARD SWITCH, S18	06-2
X517	CONNECTOR (4-PINS, BLACK)	DIMMER, N3	06-3
X518	CONNECTOR (4-PINS, BLACK)	LH footwell	17-2 06-3
X521	CONNECTOR (6-PINS, BLACK)	ASC SWITCH, S6	10-2
X522	CONNECTOR (3-PINS, WHITE)	LH footwell	17-2 05-2
X523	CONNECTOR (6-PINS, BLACK)	Behind LH side of dash center of windshield header	09-2
X526	CONNECTOR (8-PINS, BLACK)	LH footwell	17-2 06-1



# COMPONENT LOCATION CHART

## COMPONENT

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X531	..	CONNECTOR (2-PINS, WHITE)	.....	FRONT CIGAR LIGHTER, E28		
X532	..	CONNECTOR (2-PINS, NATURAL)	.....	FRONT CIGAR LIGHTER LIGHT, E29		
X537	..	CONNECTOR (1-PINS, NATURAL)	.....	In upper LH front door		
X538	..	CONNECTOR (1-PINS, NATURAL)	.....	In upper RH front door		
X539	..	CONNECTOR (2-PINS, BLACK)	.....	Center of dash		
X540	..	CONNECTOR (2-PINS, BLACK)	.....	GLOVE BOX LIGHT SWITCH, S37		
X541	..	CONNECTOR (1-PINS, NATURAL)	.....	GLOVE BOX LIGHT, E42		
X542	..	CONNECTOR (2-PINS, BLACK)	.....	Under RH front seat		
X546	..	CONNECTOR (2-PINS, WHITE)	.....	Below center of console LH side of gearshift selector		
X547	..	CONNECTOR (2-PINS, BLACK)	.....	Behind center of dashboard RADIO, N9		
X603	..	CONNECTOR (12-PINS, BLACK)	.....	DRIVER'S SEAT, SEAT CONTROL SWITCH, S51	.....	06-6
X604	..	CONNECTOR (12-PINS, BLACK)	.....	PASSENGER'S SEAT, SEAT CONTROL SWITCH, S56	.....	06-6
X605	..	CONNECTOR (12-PINS, BLACK)	.....	In LH rear side of luggage compartment	..... 30-1	02-1
X605	..	CONNECTOR (12-PINS, BLACK)	.....	In LH rear side of luggage compartment	..... 30-2	02-1
X606	..	CONNECTOR (12-PINS, WHITE)	.....	In LH rear side of luggage compartment	..... 30-1	02-1
X606	..	CONNECTOR (12-PINS, WHITE)	.....	In LH rear side of luggage compartment	..... 30-2	02-1
X607	..	CONNECTOR (20-PINS, WHITE)	.....	RH side of RH footwell behind RH footwell kickpanel	.....	08-4
X621	..	CONNECTOR (10-PINS, BLACK)	.....	Ahead of RH front door	..... 24-2	09-1
X622	..	CONNECTOR (10-PINS, BLACK)	.....	Ahead of LH front door	..... 24-2	09-1
X623	..	CONNECTOR (4-PINS, BLACK)	.....	Driver's door	..... 25-2	11-6



# COMPONENT LOCATION CHART

## COMPONENT

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X624 ..	CONNECTOR (4-PINS, BLACK) .....	Passenger's door PASSENGER'S SIDE MIRROR, Y6 .....	25-3	11-6
X625 ..	CONNECTOR (6-PINS, BLACK) .....	Driver's door MEMORY MIRRORS CONTROL SWITCH, S12 .....	25-2	05-3
X626 ..	CONNECTOR (8-PINS, BLACK) .....	Underside of LH front seat .....	22-2	11-2
X627 ..	CONNECTOR (8-PINS, BLACK) .....	Center of windshield header near rear view mirror .....	21-3	03-1
X632 ..	CONNECTOR (9-PINS, BLACK) .....	Below LH side of rear seat in Rear Power Distribution Box .....		02-3
X638 ..	CONNECTOR (6-PINS, BLACK) .....	In RH side of luggage compartment .....	31-2	09-4
X641 ..	CONNECTOR (6-PINS, BLACK) .....	Passenger's door .....	26-1	09-4
X642 ..	CONNECTOR (8-PINS, BLACK) .....	Below RH side of rear seat .....		04-4
X643 ..	CONNECTOR (6-PINS, BLUE) .....	SUNROOF SWITCH, S38 .....		08-3
X644 ..	CONNECTOR (6-PINS, WHITE) .....	In lower LH rear door .....		09-4
X645 ..	CONNECTOR (6-PINS, BLACK) .....	LEFT REAR WINDOW SWITCH, S41 .....	34-2	07-3
X646 ..	CONNECTOR (6-PINS, WHITE) .....	In lower RH rear door .....		09-4
X647 ..	CONNECTOR (6-PINS, BLACK) .....	RIGHT REAR WINDOW SWITCH, S42 .....	34-3	07-3
X650 ..	CONNECTOR (6-PINS, BLACK) .....	MEMORY SEAT MIRRORS SWITCH, S57 .....		07-3
X651 ..	CONNECTOR (6-PINS, BLACK) .....	DRIVER'S SEAT, SEAT HEATER SWITCH, S53 .....		07-3
X652 ..	CONNECTOR (6-PINS, BLUE) .....	DRIVER'S SEAT LUMBAR SWITCH, S52 .....		08-3
X658 ..	CONNECTOR (6-PINS, BLACK) .....	PASSENGER'S SEAT, SEAT HEATER SWITCH, S54 .....		07-3
X659 ..	CONNECTOR (6-PINS, BLACK) .....	Under RH front seat .....		07-3
X660 ..	CONNECTOR (6-PINS, BLACK) .....	Driver's door .....	25-1	09-4
X673 ..	CONNECTOR (2-PINS, BLACK) .....	Below LH side of rear seat .....		



# COMPONENT LOCATION CHART

## COMPONENT

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X674 ..	CONNECTOR (2-PINS, BLACK) .....	Below RH side of rear seat		
X680 ..	CONNECTOR (3-PINS, BLACK) .....	Underside of LH front seat .....	22-3	05-2
X685 ..	CONNECTOR (3-PINS, BLACK) .....	In upper LH front door near door handle .....		02-5
X686 ..	CONNECTOR (3-PINS, BLUE) .....	In lower LH front seatback .....		07-1
X687 ..	CONNECTOR (3-PINS, BLUE) .....	In lower LH front seatback .....		07-1
X688 ..	CONNECTOR (3-PINS, BLUE) .....	In lower LH front seatback .....		07-1
X689 ..	CONNECTOR (3-PINS, BLUE) .....	In lower LH front seatback .....		07-1
X690 ..	CONNECTOR (3-PINS, BLUE) .....	In lower LH front seatback .....		07-1
X692 ..	CONNECTOR (3-PINS, BLACK) .....	Center of dash (radio removed) .....		03-3
X696 ..	CONNECTOR (3-PINS, BLACK) .....	Under RH rear of car RH side of differential .....		07-5
X700 ..	CONNECTOR (1-PINS, (---)) .....	Behind RH footwell speaker grille		
X701 ..	CONNECTOR (1-PINS, (---)) .....	Behind LH footwell speaker grille		
X705 ..	CONNECTOR (2-PINS, BLACK) .....	Near RH rear wheel well .....	09-2	
X709 ..	CONNECTOR (2-PINS, BLACK) .....	LEFT LICENSE PLATE LIGHT, E43		
X710 ..	CONNECTOR (2-PINS, BLACK) .....	RIGHT LICENSE PLATE LIGHT, E44		
X711 ..	CONNECTOR (2-PINS, BLACK) .....	Underside of trunk lid left		
X714 ..	CONNECTOR (2-PINS, GRAY) .....	In lower LH rear door .....	34-2	
X715 ..	CONNECTOR (2-PINS, BLACK) .....	In upper LH rear door .....	34-2	
X720 ..	CONNECTOR (2-PINS, GRAY) .....	In lower RH rear door .....	34-3	
X721 ..	CONNECTOR (1-PINS, (---)) .....	In upper RH rear door .....	34-3	





# COMPONENT LOCATION CHART

## COMPONENT

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X726 .. CONNECTOR (2-PINS, BLACK) .....	Underside of LH front seat .....	24-1
X727 .. CONNECTOR (2-PINS, WHITE) .....	Underside of LH front seat .....	23-1
X728 .. CONNECTOR (2-PINS, WHITE) .....	Underside of LH front seat .....	24-1
X729 .. CONNECTOR (2-PINS, BLACK) .....	Underside of LH front seat .....	24-1
X730 .. CONNECTOR (2-PINS, (---)) .....	In upper LH front seatback	
X731 .. CONNECTOR (2-PINS, WHITE) .....	In upper LH front seatback	
X732 .. CONNECTOR (2-PINS, WHITE) .....	In upper LH front seatback	
X733 .. CONNECTOR (2-PINS, BLACK) .....	In lower LH front seatback	
X734 .. CONNECTOR (2-PINS, BLACK) .....	Under RH front seat	
X735 .. CONNECTOR (2-PINS, WHITE) .....	Underside of LH front seat .....	23-1
X736 .. CONNECTOR (2-PINS, BLACK) .....	Under RH front seat	
X737 .. CONNECTOR (2-PINS, WHITE) .....	Under RH front seat	
X738 .. CONNECTOR (2-PINS, (---)) .....	In upper RH front seatback	
X739 .. CONNECTOR (2-PINS, YELLOW) .....	Under RH front seat	
X740 .. CONNECTOR (2-PINS, WHITE) .....	Underside of LH front seat .....	23-3
X741 .. CONNECTOR (2-PINS, WHITE) .....	In upper RH front seatback	
X742 .. CONNECTOR (2-PINS, YELLOW) .....	Passenger's door .....	25-3
X743 .. CONNECTOR (2-PINS, BLACK) .....	Passenger's door .....	26-1
X744 .. CONNECTOR (2-PINS, GRAY) .....	Passenger's door .....	25-3
X746 .. CONNECTOR (1-PINS, (---)) .....	In upper RH front door	



## COMPONENT LOCATION CHART

### COMPONENT

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X747 .. CONNECTOR (2-PINS, YELLOW) .....	Driver's door .....	25-1
X749 .. CONNECTOR (2-PINS, GRAY) .....	Driver's door .....	25-2
X750 .. CONNECTOR (1-PINS, (---)) .....	Driver's door .....	25-2
X751 .. CONNECTOR (2-PINS, WHITE) .....	Driver's door .....	25-1
X752 .. CONNECTOR (2-PINS, GRAY) .....	Driver's door .....	25-1
X753 .. CONNECTOR (1-PINS, (---)) .....	In upper LH front door	
X760 .. CONNECTOR (1-PINS, (---)) .....	Under rear window shelf	
X761 .. CONNECTOR (1-PINS, (---)) .....	Under rear window shelf	
X762 .. CONNECTOR (1-PINS, (---)) .....	Under rear window shelf	
X763 .. CONNECTOR (1-PINS, (---)) .....	Under rear window shelf	
X764 .. CONNECTOR (2-PINS, WHITE) .....	In RH side of luggage compartment	
X765 .. CONNECTOR (2-PINS, WHITE) .....	In RH side of luggage compartment	
X766 .. CONNECTOR (2-PINS, (---)) .....	Near LH headlight assembly LEFT FRONT MARKER LIGHT, E21	
X767 .. CONNECTOR (2-PINS, GRAY) .....	Near RH headlight assembly RIGHT FRONT MARKER LIGHT, E22	
X768 .. CONNECTOR (2-PINS, WHITE) .....	LEFT FOG LIGHT, E26	
X770 .. CONNECTOR (2-PINS, WHITE) .....	Under LH front bumper .....	10-2
X771 .. CONNECTOR (2-PINS, BLACK) .....	Below LH side of dash	
X772 .. CONNECTOR (2-PINS, WHITE) .....	RH side of LH footwell	
X773 .. CONNECTOR (2-PINS, WHITE) .....	RH side of dash	
X774 .. CONNECTOR (1-PINS, GRAY) .....	Near LH headlight assembly	



# COMPONENT LOCATION CHART

## COMPONENT

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X778 .. CONNECTOR (2-PINS, BLACK) .....	Underside of LH front seat .....	23-1	
X779 .. CHARGING SOCKET .....	LH side of glove box .....	21-1	
X782 .. CONNECTOR (3-PINS, ORANGE) .....	PASSENGER'S AIR BAG GAS GENERATOR I, G6 .....		12-3
X786 .. CONNECTOR (2-PINS, BLACK) .....	UNDERHOOD LIGHT, E20		
X800 .. CONNECTOR (2-PINS, NATURAL) .....	Behind LH footwell trim		
X802 .. CONNECTOR (2-PINS, BLACK) .....	Front LH side of engine compartment JET HEATER THERMOSWITCH, S198		
X814 .. GROUND .....	RH front of wheel well		
X816 .. CONNECTOR (1-PINS, BLACK) .....	Between front footwells		
X817 .. CONNECTOR (1-PINS, BLACK) .....	Between front footwells		
X818 .. GROUND .....	LH footwell .....	02-1	
X862 .. GROUND .....	Underside of LH front seat		
X880 .. CONNECTOR (6-PINS, WHITE) .....	DRIVER'S THIGH SUPPORT SWITCH, S93 .....		07-4
X881 .. CONNECTOR (6-PINS, WHITE) .....	PASSENGER'S THIGH SUPPORT SWITCH, S94 .....		07-4
X882 .. CONNECTOR (2-PINS, BLACK) .....	Underside of LH front seat .....	24-1	
X883 .. CONNECTOR (2-PINS, BLACK) .....	Under RH front seat		
X884 .. CONNECTOR (3-PINS, BLUE) .....	In upper RH front seatback .....		07-1
X885 .. CONNECTOR (3-PINS, BLACK) .....	Underside of LH front seat .....		09-5
X890 .. CONNECTOR (2-PINS, BLACK) .....	Behind LH front fog light (530l/t) (540l)		
X904 .. CONNECTOR (4-PINS, BLACK) .....	LH side of RH footwell .....		06-3
X905 .. CONNECTOR (5-PINS, BLACK) .....	Center of dash middle of heater control panel .....		09-3



# COMPONENT LOCATION CHART

## COMPONENT

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X912	.. CONNECTOR (2-PINS, (---))	..... LEFT REAR WINDOW MONITORING SWITCH (DWA), S102		
X998	.. CONNECTOR (4-PINS, BLACK)	..... Below LH side of dash		06-5
X999	.. CONNECTOR (4-PINS, BLACK)	..... Below LH side of dash		06-3
X1021	.. CONNECTOR (9-PINS, BLACK)	..... Rear LH side of engine compartment in Front Power Distribution Box		02-3
X1098	.. CONNECTOR (12-PINS, BLACK)	..... Front of engine compartment		05-6
X1124	.. CONNECTOR (2-PINS, BLACK)	..... Front RH side of engine compartment	32-2	
X1127	.. CONNECTOR (1-PINS, (---))	..... Center console		
X1132	.. CONNECTOR (1-PINS, WHITE)	..... LH footwell	18-3	
X1160	.. GROUND	..... LH footwell	02-1	
X1171	.. CONNECTOR (88-PINS, NATURAL)	..... Rear RH side of engine compartment in E-Box		00-1
X1176	.. CONNECTOR (15-PINS, NATURAL)	..... LH side of engine compartment		12-3
X1191	.. CONNECTOR (4-PINS, BLACK)	..... Rear of luggage compartment below brake fluid reservoir behind trim panel		06-3
X1193	.. CONNECTOR (1-PINS, BLACK)	..... Center console		
X1221	.. CONNECTOR (26-PINS, GREEN)	..... Below LH side of rear seat in Rear Power Distribution Box	33-3	10-4
X1222	.. CONNECTOR (6-PINS, WHITE)	..... In LH forward side of luggage compartment	33-1	04-1
X1250	.. CONNECTOR (10-PINS, BLACK)	..... RH side of luggage compartment behind side panel	30-3	07-6
X1251	.. CONNECTOR (2-PINS, BLACK)	..... In lift gate behind trim panel	29-3	
X1252	.. CONNECTOR (2-PINS, BLACK)	..... In lift gate behind trim panel	29-3	
X1253	.. CONNECTOR (2-PINS, BLACK)	..... Rear of luggage compartment on lift gate behind trim panel		
X1254	.. CONNECTOR (2-PINS, BLACK)	..... Rear of luggage compartment on lift gate behind trim panel		



# COMPONENT LOCATION CHART

## COMPONENT

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X1255 . CONNECTOR (2-PINS, NATURAL) . . . . .	In E-Box . . . . .	15-2	
X1374 . CONNECTOR (1-PINS, NATURAL) . . . . .	GLOVE BOX LIGHT, E42		
X1404 . CONNECTOR (3-PINS, YELLOW) . . . . .	TELEPHONE INTERFACE US, A192		
X1427 . CONNECTOR (1-PINS, NATURAL) . . . . .	DASH LIGHT, E41		
X1441 . GROUND . . . . .	Below LH side of rear seat		
X1851 . CONNECTOR (1-PINS, BLACK) . . . . .	At back of rear window shelf		
X1852 . CONNECTOR (1-PINS, WHITE) . . . . .	At back of rear window shelf		
X6000 . CONNECTOR (88-PINS, BLACK) . . . . .	In E-Box (530i/t) (540i) . . . . .		12-1
X6002 . CONNECTOR (20-PINS, BLACK) . . . . .	Near E-Box left (530i/t) (540i) . . . . .	05-2	04-6
X6003 . CONNECTOR (8-PINS, BLACK) . . . . .	In E-Box . . . . .		03-1
X6007 . CONNECTOR (35-PINS, BLACK) . . . . .	Behind RH footwell speaker grille . . . . .	35-2	00-3
X6030 . CONNECTOR (18-PINS, BLACK) . . . . .	In E-Box (530i/t) (540i) . . . . .	15-2	01-2
X6053 . CONNECTOR (12-PINS, BLACK) . . . . .	RH side of dash behind glove box . . . . .		02-1
X6101 . CONNECTOR (2-PINS, BLACK) . . . . .	Cylinder head (525i/t)		
X6101 . CONNECTOR (2-PINS, BLACK) . . . . .	RH cylinder head (530i/t) (540i)		
X6102 . CONNECTOR (2-PINS, BLACK) . . . . .	Cylinder head (525i/t)		
X6102 . CONNECTOR (2-PINS, BLACK) . . . . .	RH cylinder head (530i/t) (540i)		
X6103 . CONNECTOR (2-PINS, BLACK) . . . . .	Cylinder head (525i/t)		
X6103 . CONNECTOR (2-PINS, BLACK) . . . . .	RH cylinder head (530i/t) (540i)		
X6104 . CONNECTOR (2-PINS, BLACK) . . . . .	Cylinder head (525i/t)		



## COMPONENT LOCATION CHART

### COMPONENT

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X6104 . CONNECTOR (2-PINS, BLACK) . . . . .	RH cylinder head (530i/t) (540i)	
X6105 . CONNECTOR (2-PINS, BLACK) . . . . .	Cylinder head (525i/t)	
X6105 . CONNECTOR (2-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i)	
X6106 . CONNECTOR (2-PINS, BLACK) . . . . .	Cylinder head (525i/t)	
X6106 . CONNECTOR (2-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i)	
X6107 . CONNECTOR (2-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i)	
X6108 . CONNECTOR (2-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i)	
X6120 . CONNECTOR (2-PINS, BLACK) . . . . .	LH side of engine	
X6130 . CONNECTOR (3-PINS, GRAY) . . . . .	Front of engine . . . . .	03-5
X6151 . CONNECTOR (3-PINS, BLACK) . . . . .	RH cylinder head (530i/t) (540i) . . . . .	08-5
X6151 . CONNECTOR (3-PINS, GRAY) . . . . .	RH side of engine (525i/t) . . . . .	08-5
X6152 . CONNECTOR (3-PINS, BLACK) . . . . .	RH cylinder head (530i/t) (540i) . . . . .	08-5
X6152 . CONNECTOR (3-PINS, GRAY) . . . . .	RH side of engine (525i/t) . . . . .	08-5
X6153 . CONNECTOR (3-PINS, BLACK) . . . . .	RH cylinder head (530i/t) (540i) . . . . .	08-5
X6153 . CONNECTOR (3-PINS, GRAY) . . . . .	RH side of engine (525i/t) . . . . .	08-5
X6154 . CONNECTOR (3-PINS, BLACK) . . . . .	RH cylinder head (530i/t) (540i) . . . . .	08-5
X6154 . CONNECTOR (3-PINS, GRAY) . . . . .	LH side of engine (525i/t) . . . . .	08-5
X6155 . CONNECTOR (3-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i) . . . . .	08-5
X6155 . CONNECTOR (3-PINS, GRAY) . . . . .	LH side of engine (525i/t) . . . . .	08-5
X6156 . CONNECTOR (3-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i) . . . . .	08-5



# COMPONENT LOCATION CHART

## COMPONENT

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X6156 . CONNECTOR (3-PINS, GRAY) . . . . .	LH side of engine (525i/t) . . . . .		08-5
X6157 . CONNECTOR (3-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i) . . . . .		08-5
X6158 . CONNECTOR (3-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i) . . . . .		08-5
X6163 . CONNECTOR (2-PINS, BLACK) . . . . .	Front of engine compartment . . . . .	32-3	
X6200 . CONNECTOR (4-PINS, BLACK) . . . . .	LH side of engine . . . . .		11-5
X6203 . CONNECTOR (3-PINS, BLACK) . . . . .	RH front of engine below . . . . .	06-3	03-5
X6204 . CONNECTOR (3-PINS, BLACK) . . . . .	LH side of engine (530i/t) (540i) . . . . .		03-5
X6205 . CONNECTOR (2-PINS, BLACK) . . . . .	Front of engine on coolant inlet		
X6206 . CONNECTOR (7-PINS, BLACK) . . . . .	Front LH side of engine compartment ahead of LH side shock tower . . . . .		11-4
X6208 . CONNECTOR (2-PINS, BLACK) . . . . .	Front of engine CAMSHAFT ACTUATOR, B6208		
X6209 . CONNECTOR (3-PINS, BLACK) . . . . .	Front of engine HALL EFFECT CAMSHAFT SENSOR, B6209		
X6210 . CONNECTOR (4-PINS, BLACK) . . . . .	Under transmission (530i/t) (540i) . . . . .	07-2	03-6
X6215 . CONNECTOR (2-PINS, BLACK) . . . . .	Top front of engine compartment (530i/t) (540i)		
X6217 . CONNECTOR (4-PINS, GRAY) . . . . .	Top front of engine . . . . .		09-6
X6220 . CONNECTOR (4-PINS, BLACK) . . . . .	Under transmission (530i/t) (540i) . . . . .	07-2	03-6
X6230 . CONNECTOR (3-PINS, BLACK) . . . . .	LH side of engine . . . . .		03-5
X6231 . CONNECTOR (2-PINS, BLACK) . . . . .	Front of engine compartment below intake manifold (525i/t)		
X6231 . CONNECTOR (2-PINS, BLACK) . . . . .	Lower LH front of engine (530i/t) (540i)		
X6232 . CONNECTOR (2-PINS, BLACK) . . . . .	Front of engine on coolant inlet		
X6235 . CONNECTOR (2-PINS, BLACK) . . . . .	Rear RH side of engine compartment in E-Box		



# COMPONENT LOCATION CHART

## COMPONENT

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X6236 . CONNECTOR (2-PINS, BLACK) . . . . .	Top rear of engine on coolant inlet		
X6241 . CONNECTOR (3-PINS, BLACK) . . . . .	On cylinder head right (530i/t) (540i) . . . . .	06-2	03-5
X6241 . CONNECTOR (2-PINS, BLACK) . . . . .	Top front of engine (525i/t)		
X6242 . CONNECTOR (3-PINS, BLACK) . . . . .	On cylinder head right (530i/t) (540i) . . . . .	06-2	03-5
X6242 . CONNECTOR (2-PINS, BLACK) . . . . .	Top front of engine (525i/t)		
X6243 . CONNECTOR (3-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i) . . . . .	08-2	03-5
X6244 . CONNECTOR (3-PINS, BLACK) . . . . .	LH cylinder head (530i/t) (540i) . . . . .	08-2	03-5
X6252 . CONNECTOR (3-PINS, BLACK) . . . . .	Near throttle body (525i/t) . . . . .	35-1	03-5
X6252 . CONNECTOR (3-PINS, BLACK) . . . . .	Top front of engine compartment (530i/t) (540i) . . . . .		03-5
X6253 . CONNECTOR (3-PINS, BLACK) . . . . .	Top front of engine compartment (530i/t) (540i) . . . . .		03-5
X6300 . CONNECTOR (9-PINS, BLACK) . . . . .	Rear RH side of engine compartment in E-Box . . . . .		02-3
X6301 . CONNECTOR (9-PINS, BLACK) . . . . .	Rear RH side of engine compartment in E-Box . . . . .		02-3
X6302 . CONNECTOR (9-PINS, BLACK) . . . . .	Rear RH side of engine compartment in E-Box . . . . .		02-3
X6303 . CONNECTOR (9-PINS, BLACK) . . . . .	In E-Box (530i/t) (540i) . . . . .		02-3
X6304 . CONNECTOR (9-PINS, BLACK) . . . . .	In E-Box (530i/t) . . . . .		02-3
X6400 . B+ JUNCTION POINT . . . . .	In E-Box . . . . .	01-2	
X6452 . GROUND . . . . .	Near E-Box left (530i/t) (540i) . . . . .	03-3	
X6453 . GROUND . . . . .	Near E-Box left (530i/t) (540i) . . . . .	03-3	
X6454 . GROUND . . . . .	Rear RH side of engine compartment (525i/t) . . . . .	03-1	
X6455 . GROUND . . . . .	Rear RH side of engine compartment (525i/t) . . . . .	03-1	





# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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X6456 . GROUND	Front of engine (525i/t)	02-3	
X6506 . CONNECTOR (4-PINS, BLACK)	In E-Box	15-2	06-3
X6509 . CONNECTOR (1-PINS, (---))	GENERATOR, G6509		
X6510 . CABLE SOCKET STARTER TERMINAL 50	LH side of engine compartment below intake manifold		
X6511 . CABLE SOCKET ALTERNATOR TERMINAL 30h	Below intake manifold		
X6512 . CABLE SOCKET STARTER TERMINAL 30h	LH side of engine		
X7509 . CONNECTOR (1-PINS, (---))	GENERATOR, G6509		
X8500 . CONNECTOR (55-PINS, BLACK)	Behind RH footwell kickpanel (525i/t)		00-1
X8503 . CONNECTOR (6-PINS, BLUE)	Below center console		08-3
X8505 . CONNECTOR (16-PINS, BLACK)	Under transmission (530i/t) (540i)	07-3	
X8505 . CONNECTOR (9-PINS, BLACK)	On LH side of transmission (525i/t)		
X8507 . CONNECTOR (1-PINS, BLACK)	Rear RH side of engine compartment		
X8508 . GROUND	Underside of RH rear seat	04-2	
X8516 . CONNECTOR (2-PINS, BLACK)	Under center of car		
X8522 . CONNECTOR (2-PINS, WHITE)	Center console (530i/t) (540i)		
X8524 . CONNECTOR (2-PINS, BLACK)	On RH side of transmission REVERSING LIGHT SWITCH, S8524		
X8600 . CONNECTOR (88-PINS, BLACK)	In E-Box (530i/t) (540i)		12-1
X10068 . CONNECTOR (2-PINS, GRAY)	LEFT FOG LIGHT, E26		
X10069 . CONNECTOR (2-PINS, GRAY)	RIGHT FOG LIGHT, E27		
X10070 . CONNECTOR (2-PINS, BLACK)	LEFT LOW BEAM LIGHT, E13		



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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X10071	CONNECTOR (2-PINS, BLACK)	LEFT HIGH BEAM LIGHT, E11		
X10074	CONNECTOR (2-PINS, BLACK)	RIGHT HIGH BEAM LIGHT, E12		
X10075	CONNECTOR (2-PINS, GRAY)	RIGHT LOW BEAM LIGHT, E14		
X10094	CONNECTOR (2-PINS, BLACK)	Front LH side of engine compartment (530i/t) (540i)	06-1	
X10094	CONNECTOR (2-PINS, BLACK)	Near throttle body (525i/t)	35-1	
X10104	CONNECTOR (18-PINS, BLACK)	In E-Box	15-2	05-1
X10105	CONNECTOR (4-PINS, WHITE)	In E-Box	15-2	06-5
X10195	CONNECTOR (3-PINS, BLACK)	DRIVER'S AIR BAG GAS GENERATOR, G5		12-2
X10218	CONNECTOR (4-PINS, (---))	RH front seat		
X10238	CONNECTOR (2-PINS, BLACK)	Near throttle body (525i/t)	35-1	
X13025	CONNECTOR (12-PINS, BLACK)	Below RH side of rear seat	27-2	
X13057	CONNECTOR (3-PINS, BLACK)	Rear of luggage compartment on lift gate behind trim panel		05-2
X13058	CONNECTOR (2-PINS, GREEN)	RH side of luggage compartment behind side panel	31-3	
X13059	CONNECTOR (3-PINS, BLACK)	On lift gate behind trim panel		05-2
X13085	CONNECTOR (10-PINS, BLACK)	In roof panel	29-1	09-1
X13086	CONNECTOR (18-PINS, BLACK)	In roof panel	29-1	11-3
X13105	CONNECTOR (3-PINS, BLACK)	LH footwell	18-2	03-3
X13106	CONNECTOR (6-PINS, BLACK)	RH side of luggage compartment behind side panel	30-3	10-1
X13107	CONNECTOR (2-PINS, WHITE)	In lift gate	29-3	
X13119	CONNECTOR (12-PINS, WHITE)	Below LH side of dash		06-4



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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X13120	CONNECTOR (1-PINS, BLACK)	In LH rear side of luggage compartment behind trim panel		
X13139	CONNECTOR (10-PINS, BLACK)	Center of windshield header		09-1
X18025	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment		09-1
X18047	CONNECTOR (2-PINS, (---))	In lower RH rear door		
X18049	CONNECTOR (2-PINS, YELLOW)	In lower LH rear door		
X18050	CONNECTOR (2-PINS, BLACK)	RH front door		
X18052	CONNECTOR (2-PINS, BLACK)	In upper RH rear door		
X18058	CONNECTOR (3-PINS, (---))	RH front seat		
X18080	CONNECTOR (1-PINS, NATURAL)	TRUNK LID LIGHT, E33		
X18084	CONNECTOR (2-PINS, BLACK)	Driver's door	25-1	
X18093	CONNECTOR (3-PINS, WHITE)	STEERING COLUMN POSITION SWITCH, S119z		03-3
X18095	CONNECTOR (3-PINS, BLACK)	Underside of steering column		
X18097	CONNECTOR (2-PINS, BLACK)	Bottom of steering column	17-3	
X18126	CONNECTOR (17-PINS, BLACK)	Behind radio	20-3	04-2
X18151	CONNECTOR (10-PINS, BLACK)	IHKR/F3 SWITCHING UNIT, S135w		09-1
X18153	CONNECTOR (3-PINS, BLACK)	LH footwell near gearshift lever	18-2	05-2
X18154	CONNECTOR (18-PINS, BLACK)	IHKR/F3 CONTROL PANEL, S134w		11-3
X18155	CONNECTOR (26-PINS, WHITE)	LH side of RH footwell	19-3	10-4
X18156	CONNECTOR (26-PINS, BLUE)	LH side of RH footwell	19-3	10-4
X18157	CONNECTOR (26-PINS, BLUE)	LH side of RH footwell	19-3	10-4



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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X18181	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	07-3
X18184	CONNECTOR (1-PINS, (---))	Under rear window shelf	
X18185	CONNECTOR (1-PINS, (---))	Under rear window shelf	
X18186	CONNECTOR (1-PINS, NATURAL)	In upper LH front door	
X18186	CONNECTOR (1-PINS, NATURAL)	In upper LH front door	
X18187	CONNECTOR (1-PINS, (---))	Under rear window shelf	
X18187	CONNECTOR (1-PINS, (---))	Under rear window shelf	
X18188	CONNECTOR (1-PINS, (---))	LH A-pillar behind trim panel	
X18189	CONNECTOR (1-PINS, (---))	Under rear window shelf	
X18190	CONNECTOR (1-PINS, NATURAL)	In upper LH front door	
X18191	CONNECTOR (1-PINS, (---))	Behind RH footwell speaker grille	
X18192	CONNECTOR (1-PINS, WHITE)	In upper RH front door	
X18193	CONNECTOR (1-PINS, (---))	In upper RH front door	
X18205	CONNECTOR (2-PINS, WHITE)	Front of gearshift selector	21-2
X18244	CONNECTOR (8-PINS, BLACK)	In roof panel	03-1
X18245	CONNECTOR (8-PINS, BLACK)	In roof panel	29-1 03-1
X18259	CONNECTOR (10-PINS, BLACK)	Below LH side of dash	07-6
X18260	CONNECTOR (12-PINS, BLACK)	Bottom of steering column	02-1
X18319	CONNECTOR (18-PINS, BLACK)	Underside of LH front seat	22-1 01-2
X18320	CONNECTOR (26-PINS, NATURAL)	Underside of LH front seat	22-1 01-1



# COMPONENT LOCATION CHART

## COMPONENT

PAGE - FIGURE  
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X18321	CONNECTOR (10-PINS, BLACK)	Underside of LH front seat	22-1	10-5
X18322	CONNECTOR (26-PINS, BLACK)	Underside of LH front seat	22-1	01-1
X18323	CONNECTOR (4-PINS, BLACK)	Underside of LH front seat	22-1	02-6
X18500	CONNECTOR (25-PINS, BLACK)	TELEPHONE TRANSCEIVER, H38		02-2
X18501	CONNECTOR (3-PINS, YELLOW)	Below center console TELEPHONE INTERFACE US, A192		05-1
X18503	CONNECTOR (2-PINS, (---))	TELEPHONE INTERFACE US, A192		
X18506	CONNECTOR (2-PINS, (---))	Behind center of dashboard		
X18507	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard		01-6
X18508	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard		01-6
X18509	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard		01-6
X18729	CONNECTOR (3-PINS, WHITE)	In LH forward side of luggage compartment	30-1	05-2
X18729	CONNECTOR (3-PINS, WHITE)	In LH forward side of luggage compartment	30-2	05-2
X18741	CONNECTOR (4-PINS, BLACK)	Behind center of dashboard		01-6
X18766	CONNECTOR (9-PINS, BLACK)	RH A-pillar behind LH footwell speaker grille		02-3
X18767	CONNECTOR (9-PINS, BLACK)	LH A-pillar behind LH footwell speaker grille		02-3
Y1	ABS HYDRAULIC UNIT	LH side of engine compartment	13-3	
Y2	AIR CONDITIONING COMPRESSOR	Lower RH side of engine compartment		
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment	11-3	
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		



## COMPONENT LOCATION CHART

### COMPONENT

PAGE - FIGURE  
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Y7	....	PARK HEATING METERING PUMP	.....	Under rear of car behind RH rear wheel	
Y9	....	DRIVER'S SIDE MEMORY MIRROR	.....	In upper LH front door	
Y10	...	PASSENGER'S SIDE MEMORY MIRROR	.....	In upper RH front door	
Y16	...	PRESSURE SENSOR/PLUNGER	.....	Rear LH side of engine compartment	
Y6101	.	CYL. 1 FUEL INJECTION VALVE	.....	RH cylinder head (530i/t) (540i)	08-3
Y6101	.	CYL. 1 FUEL INJECTION VALVE	.....	On engine bulkhead (525i/t)	14-3
Y6102	.	CYL. 2 FUEL INJECTION VALVE	.....	RH cylinder head (530i/t) (540i)	06-2
Y6102	.	CYL. 2 FUEL INJECTION VALVE	.....	On engine bulkhead (525i/t)	14-3
Y6103	.	CYL. 3 FUEL INJECTION VALVE	.....	RH cylinder head (530i/t) (540i)	06-2
Y6103	.	CYL. 3 FUEL INJECTION VALVE	.....	On engine bulkhead (525i/t)	14-3
Y6104	.	CYL. 4 FUEL INJECTION VALVE	.....	RH cylinder head (530i/t) (540i)	06-2
Y6104	.	CYL. 4 FUEL INJECTION VALVE	.....	On engine bulkhead (525i/t)	14-3
Y6105	.	CYL. 5 FUEL INJECTION VALVE	.....	LH cylinder head (530i/t) (540i)	08-2
Y6105	.	CYL. 5 FUEL INJECTION VALVE	.....	On engine bulkhead (525i/t)	14-3
Y6106	.	CYL. 6 FUEL INJECTION VALVE	.....	LH cylinder head (530i/t) (540i)	08-2
Y6106	.	CYL. 6 FUEL INJECTION VALVE	.....	On engine bulkhead (525i/t)	14-3
Y6107	.	CYL. 7 FUEL INJECTION VALVE	.....	LH cylinder head (530i/t) (540i)	
Y6108	.	CYL. 8 FUEL INJECTION VALVE	.....	LH cylinder head (530i/t) (540i)	
Y6120	.	EVAPORATIVE EMISSION VALVE	.....	LH side of engine compartment LH side of engine (525i/t)	
Y6130	.	IDLE SPEED CONTROL VALVE	.....	Top front of engine compartment (530i/t) (540i)	08-1



# COMPONENT LOCATION CHART

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## COMPONENT

PAGE - FIGURE  
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Y6130 . IDLE SPEED CONTROL VALVE .....	Front of engine (525i/t) .....	13-2
Y6130 . IDLE SPEED CONTROL VALVE .....	Top front of engine on throttle body	
Y6208 . CAMSHAFT ACTUATOR .....	Top front of engine	
Y8516 . ELECTRONIC TRANSMISSION ENGINE SPEED SENSOR (EGS) .....	Under center of car	
Y8522 . SHIFT LOCK .....	Center console (530i/t) (540i)	
Y8505w TRANSMISSION VALVE UNIT .....	In transmission (530i/t) (540i)	
Y8505y TRANSMISSION VALVE UNIT .....	In transmission (525i/t)	

BMW  
5

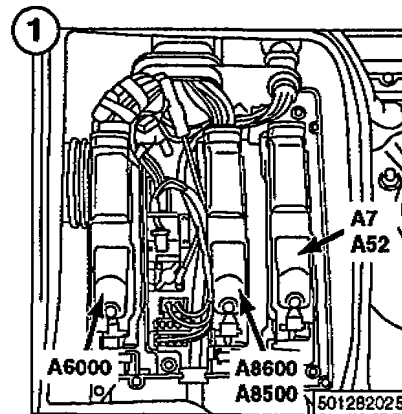
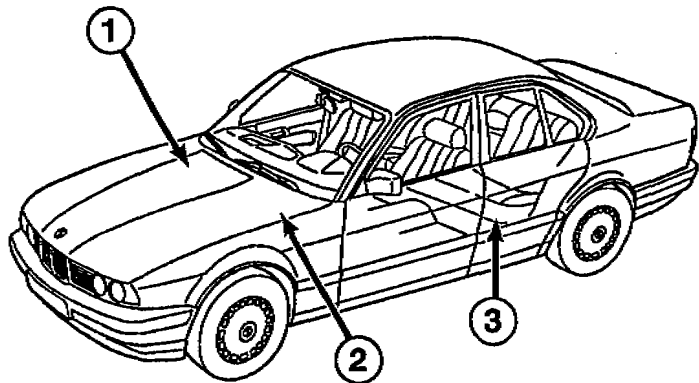
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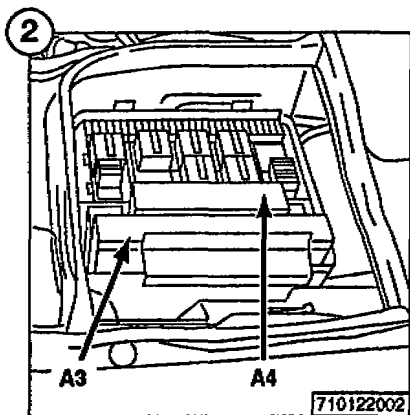


# COMPONENT LOCATION VIEWS

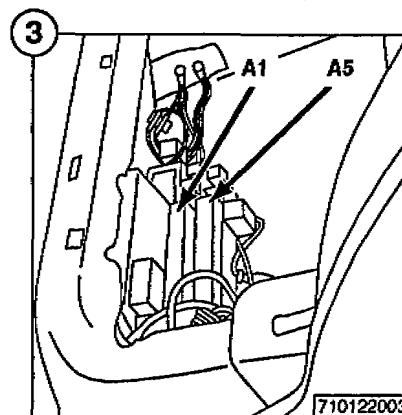
## ELECTRICAL CONTROL MODULE LOCATIONS



- A7 SLIP CONTROL MODULE (ABS)
- A52 SLIP CONTROL MODULE (ABS/ASC)
- A6000 ENGINE CONTROL MODULE (DME)
- A8500 TRANSMISSION CONTROL MODULE (EGS)
- A8600 TRANSMISSION CONTROL MODULE (AGS)



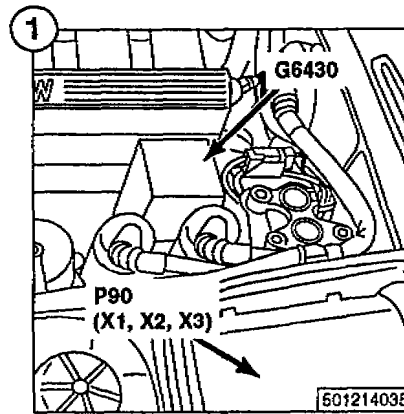
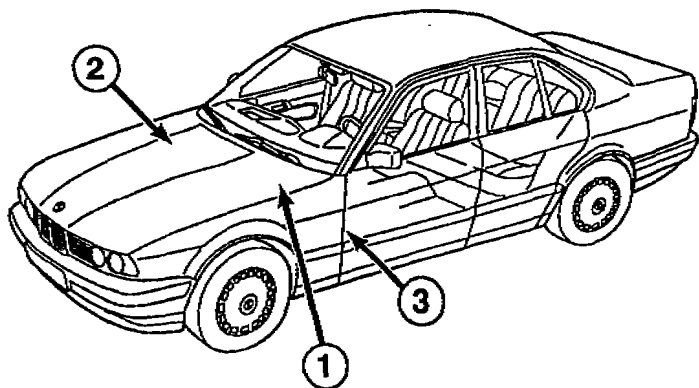
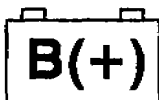
- A3 LAMP CONTROL MODULE
- A4 CHECK CONTROL MODULE



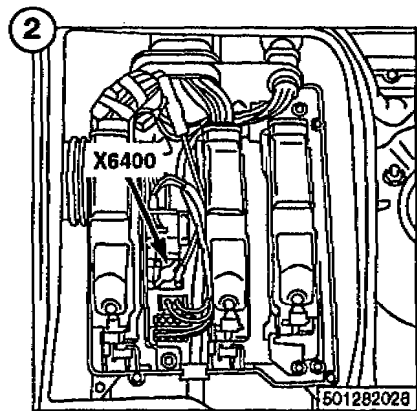
- A1 GENERAL MODULE
- A5 RELAY MODULE



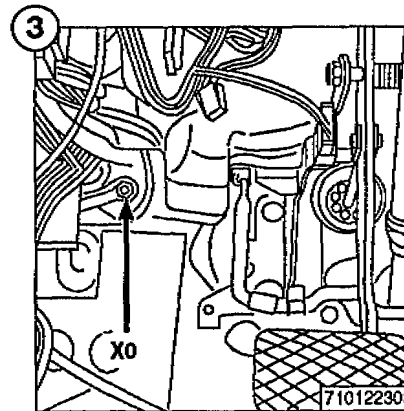
# COMPONENT LOCATION VIEWS



- P90 FRONT POWER DISTRIBUTION BOX
- G6430 B+ JUMP START JUNCTION POINT
- X1 B+ JUNCTION POINT
- X2 BATTERY B+ START POINT
- X3 B+ JUNCTION POINT



X6400  
B+ JUNCTION POINT

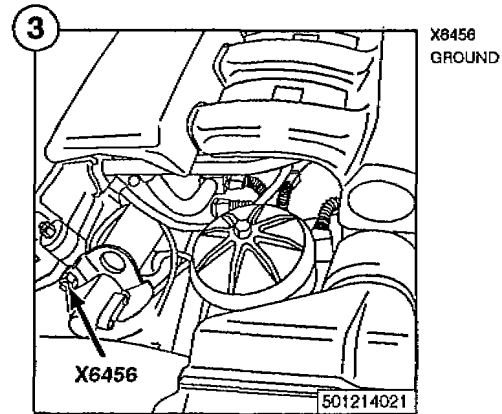
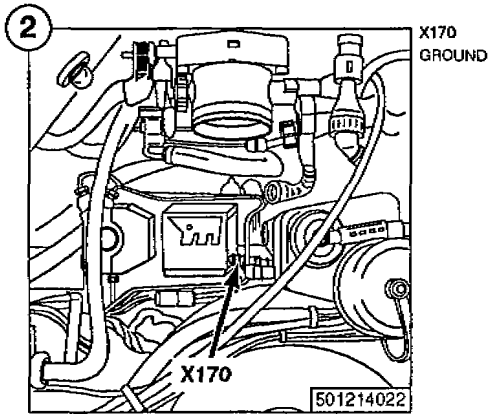
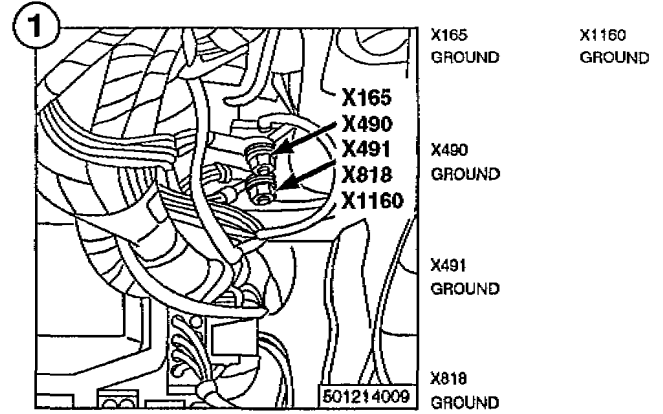
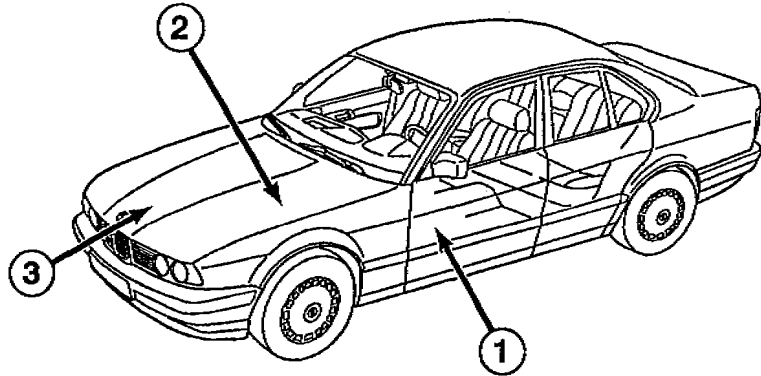


X0

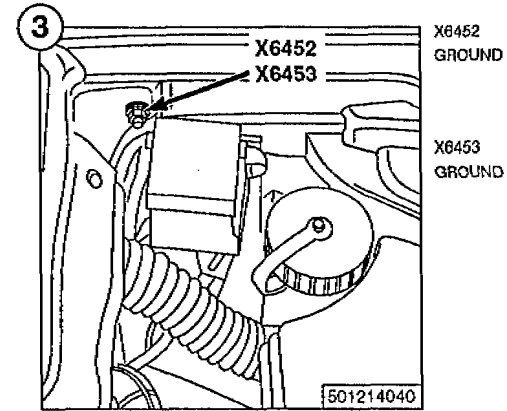
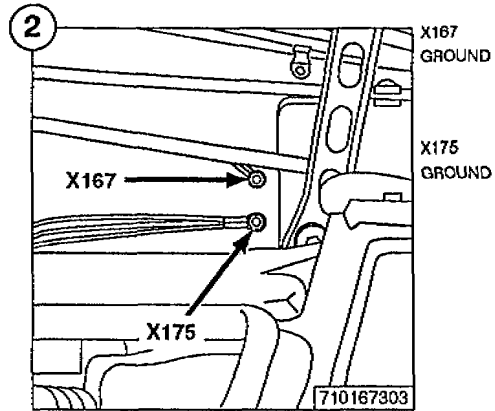
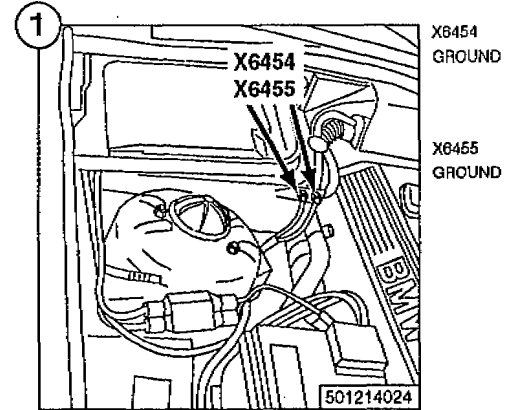
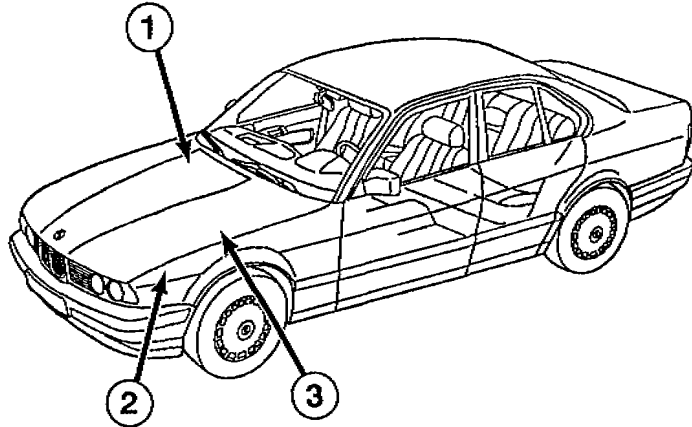


# COMPONENT LOCATION VIEWS

**B(-)**



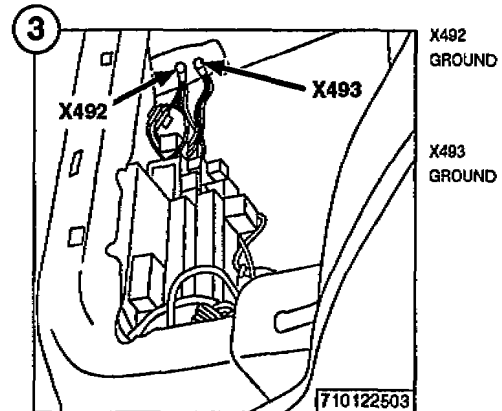
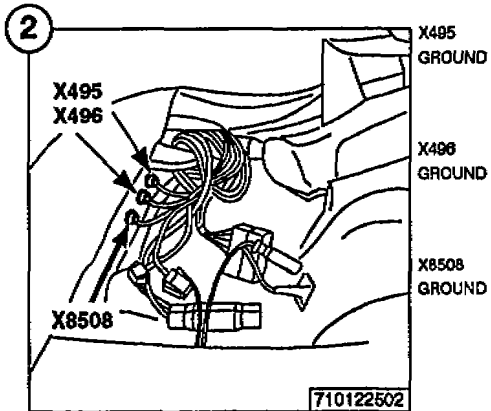
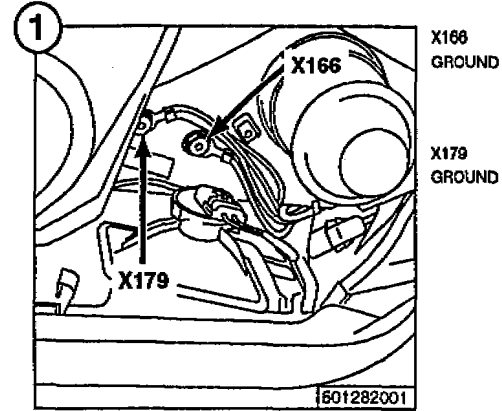
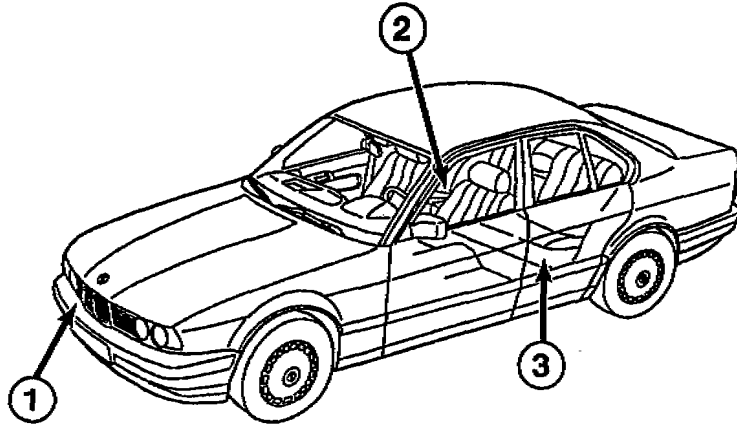
B(-)





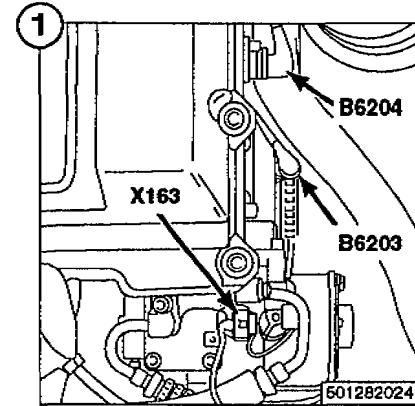
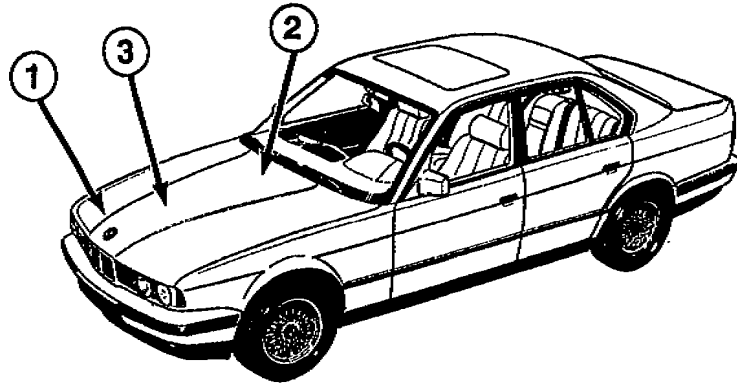
# COMPONENT LOCATION VIEWS

**B(-)**



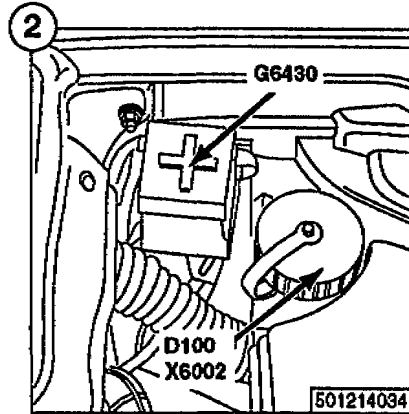


# COMPONENT LOCATION VIEWS



B6203  
CRANKSHAFT  
POSITION/RPM  
SENSOR

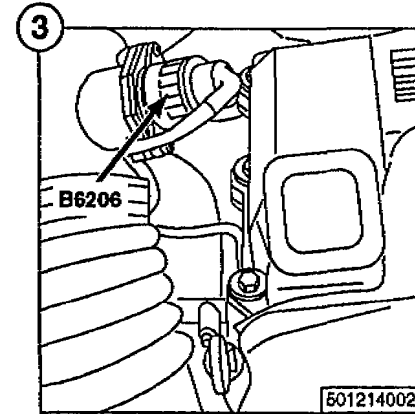
B6204  
CAMSHAFT  
POSITION SENSOR  
(CYLINDER  
IDENTIFICATION)  
X163



D100  
DATA LINK  
CONNECTOR

G6430  
B+  
JUMP START  
JUNCTION POINT

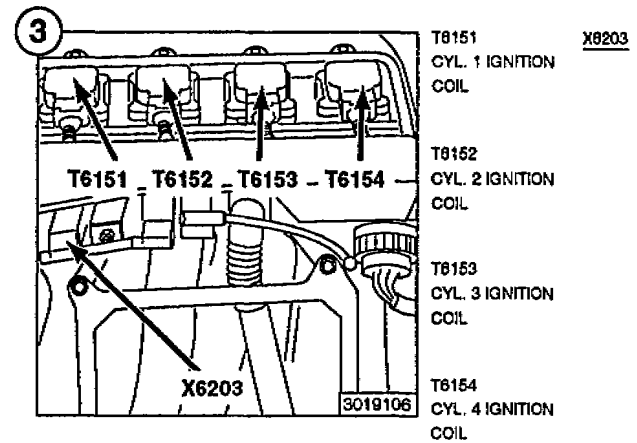
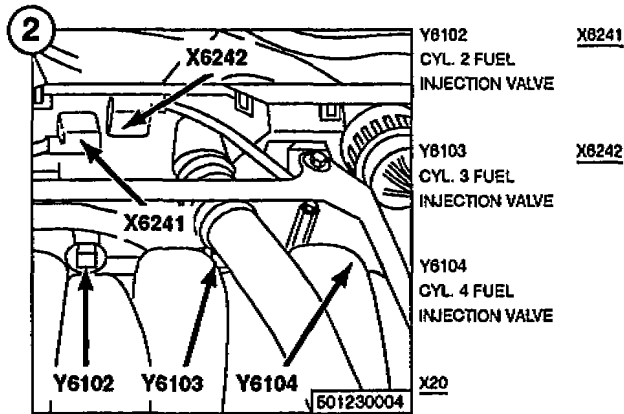
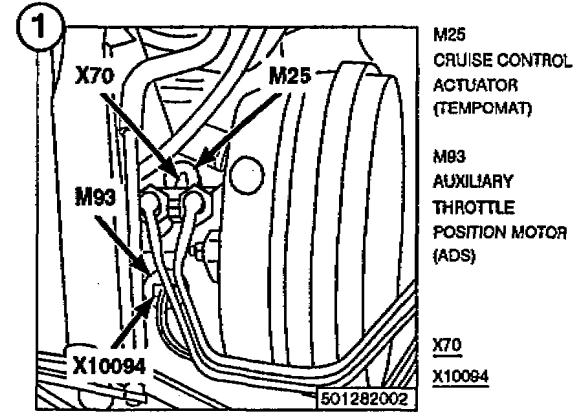
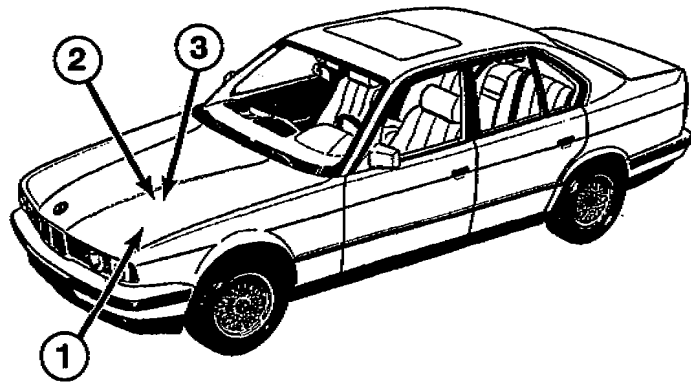
X6002



B6206  
MASS AIR FLOW  
SENSOR

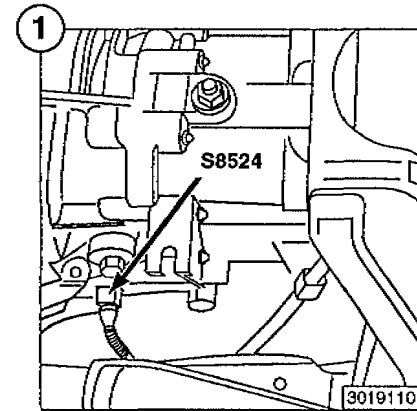
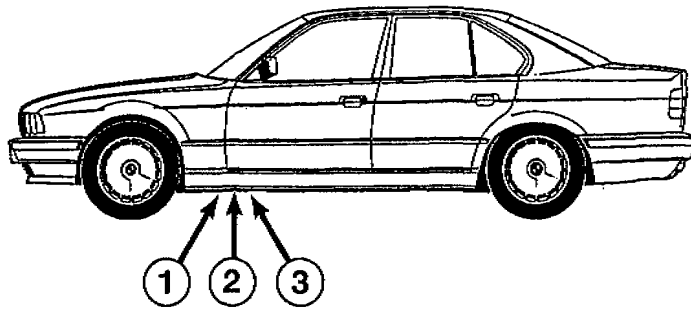


# COMPONENT LOCATION VIEWS

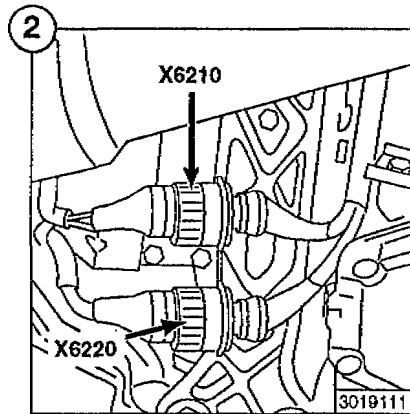




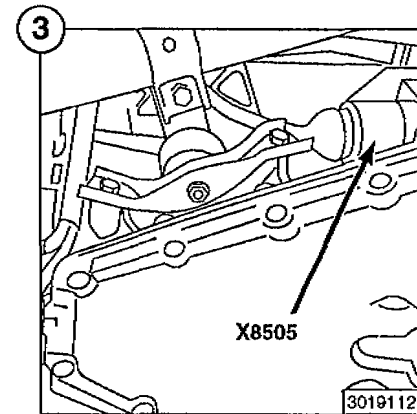
# COMPONENT LOCATION VIEWS



S8524  
REVERSING LIGHT  
SWITCH



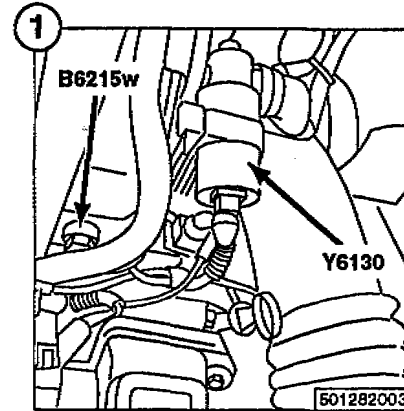
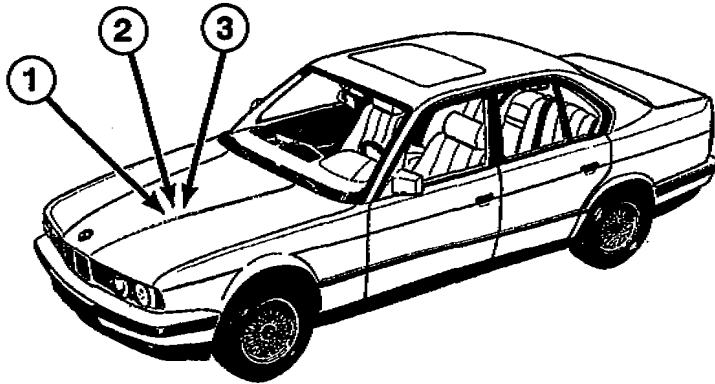
X6210  
X6220



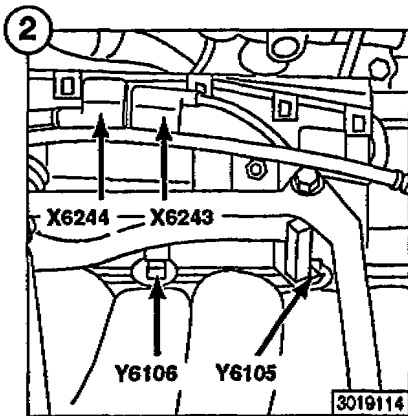
X8505



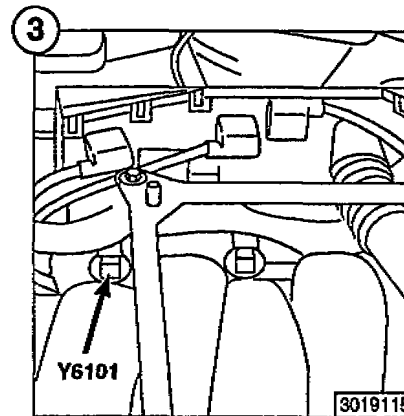
# COMPONENT LOCATION VIEWS



B6215w  
CYL. 1-8 AIR  
TEMPERATURE  
SENSOR  
Y6130  
IDLE SPEED  
CONTROL VALVE



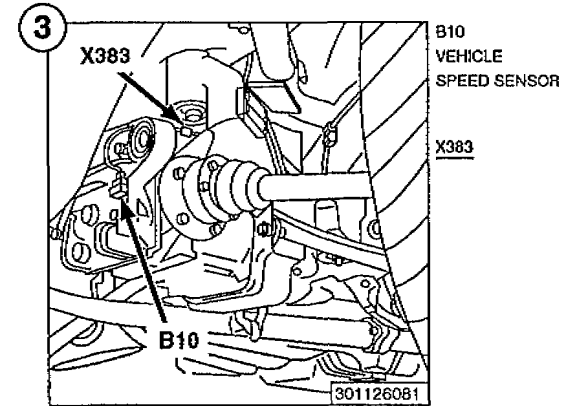
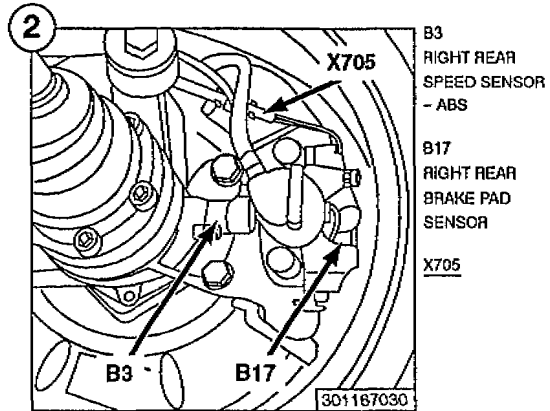
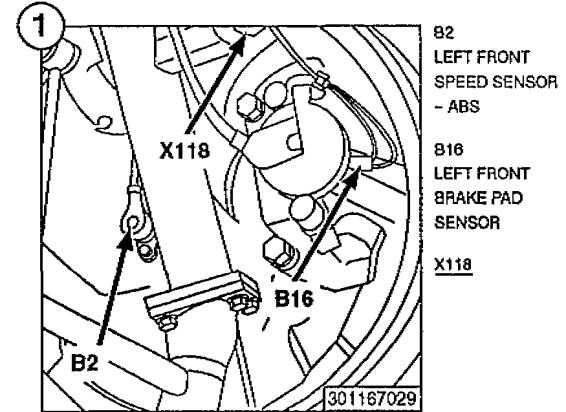
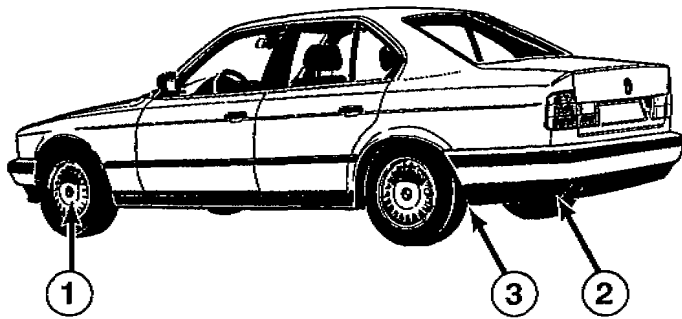
Y6105  
CYL. 6 FUEL  
INJECTION VALVE  
Y6106  
CYL. 6 FUEL  
INJECTION VALVE  
X6243  
X6244



Y6101  
CYL. 1 FUEL  
INJECTION VALVE

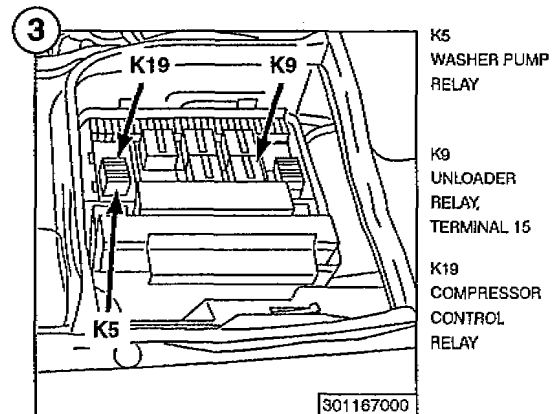
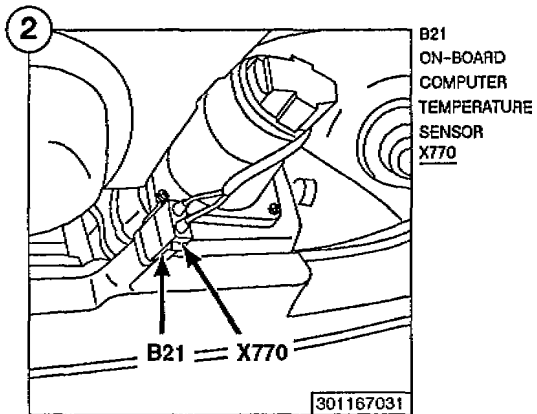
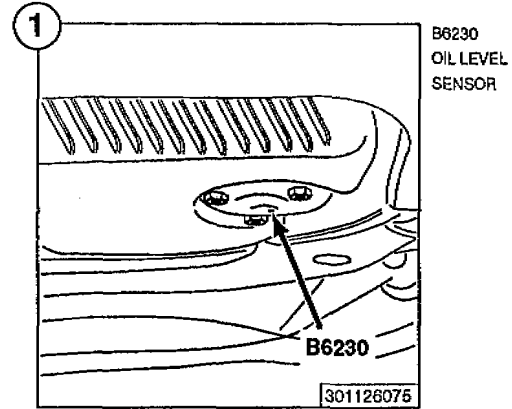
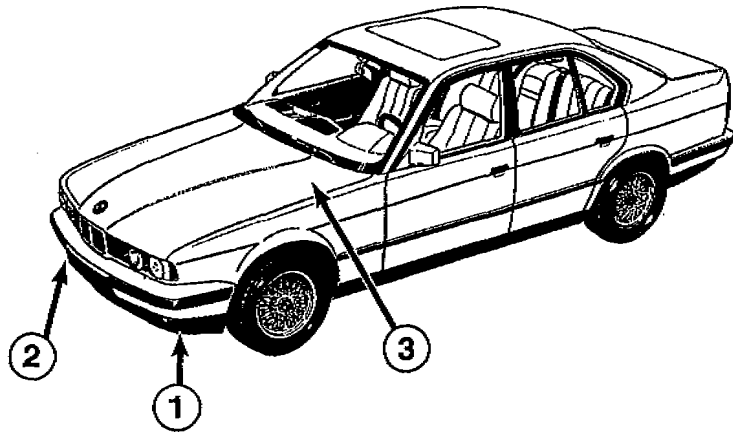


# COMPONENT LOCATION VIEWS



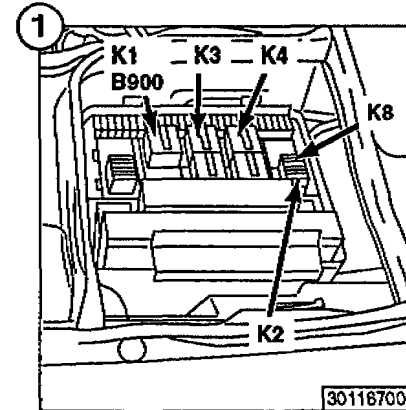
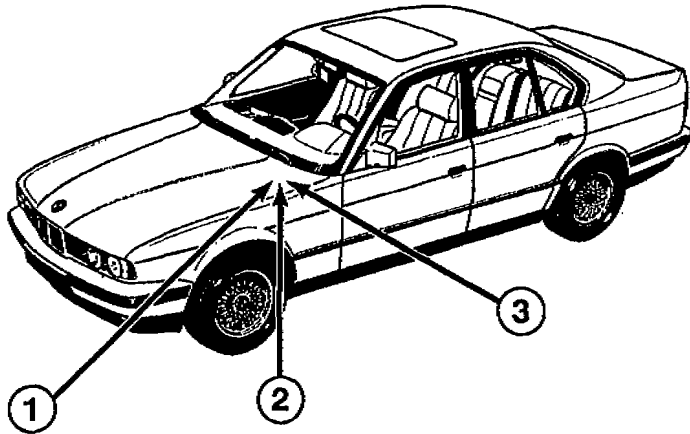


# COMPONENT LOCATION VIEWS

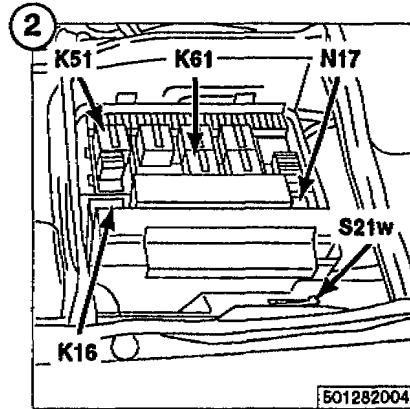




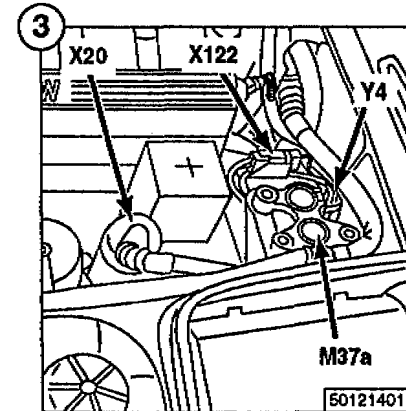
# COMPONENT LOCATION VIEWS



- B900 JUMPER PLUG
- K1 STARTER RELAY
- K2 HORN RELAY
- K3 UNLOADER RELAY, TERMINAL R
- K4 BLOWER RELAY
- K8 AUXILIARY WATER PUMP RELAY



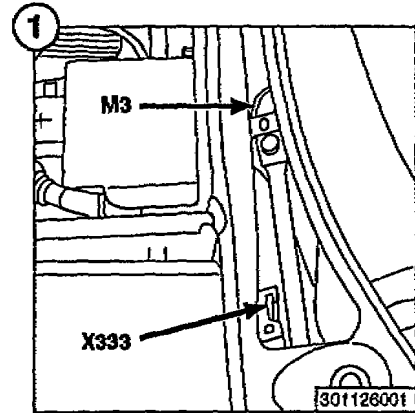
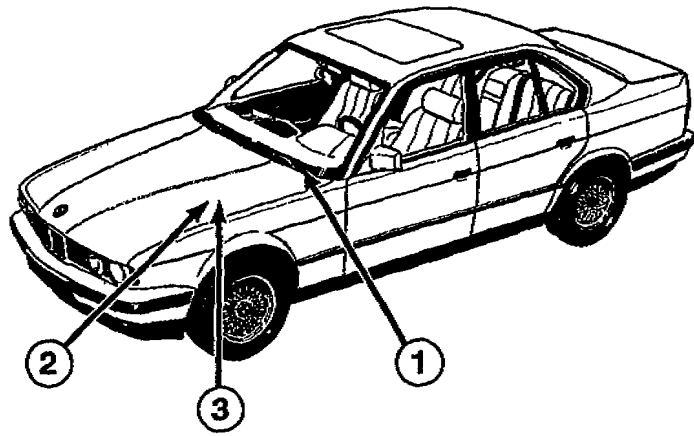
- K51 HAZARD FLASHER RELAY
- K61 UNLOADER RELAY, TERMINAL 61
- K16 JUMPER PLUG FOR HORN/ TELEPHONE
- N17 CRASH CONTROL MODULE
- S21w ENGINE HOOD SWITCH



- M37a AUXILIARY WATER PUMP
- Y4 WATER VALVE ASSEMBLY
- X20
- X122



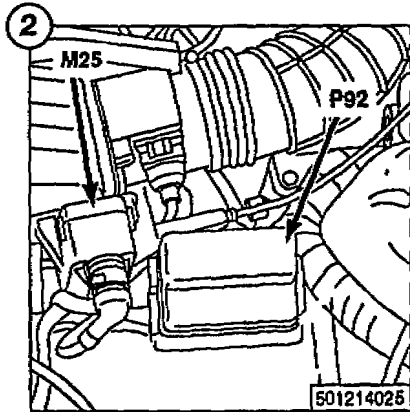
# COMPONENT LOCATION VIEWS



M3  
WIPER MOTOR

X333

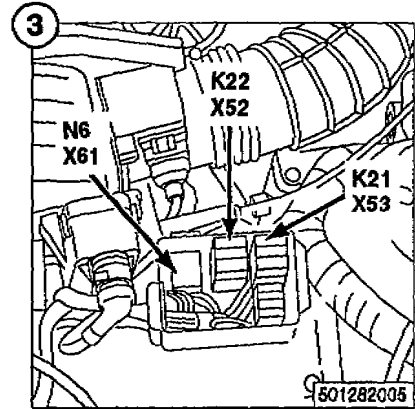
301128001



M25  
CRUISE CONTROL  
ACTUATOR  
(TEMPOMAT)

P92  
AUXILIARY  
RELAY BOX

501214025



K21  
NORMAL SPEED  
RELAY

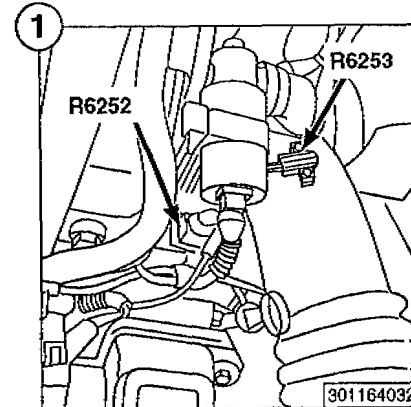
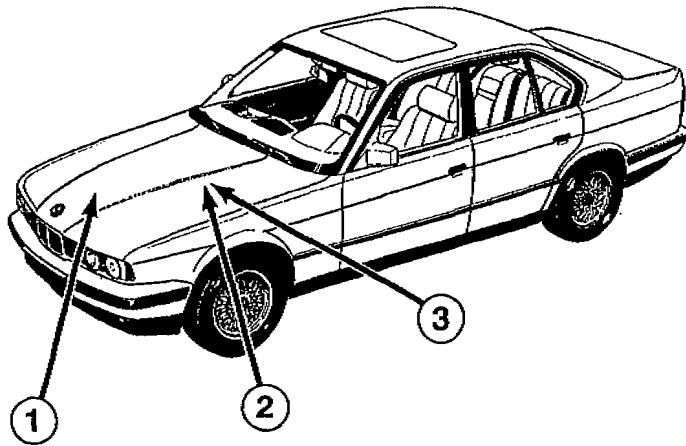
X52  
X53  
X61

K22  
HIGH SPEED  
RELAY

N6  
HEADLIGHT/  
FOGLIGHT  
CLEANING  
MODULE (SRA)

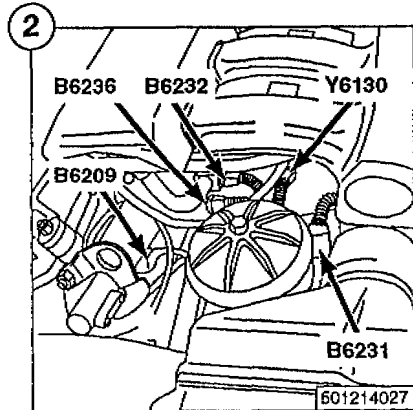
501282005

**COMPONENT LOCATION VIEWS**



R6252  
THROTTLE  
POSITION  
SENSOR

R6253  
AUXILIARY  
THROTTLE  
POSITION  
SENSOR



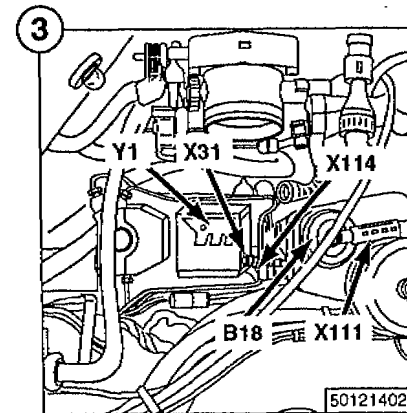
B6209  
HALL EFFECT  
CAMSHAFT SENSOR

B6231  
OIL PRESSURE  
SWITCH

B6232  
ENGINE COOLANT  
TEMPERATURE  
SENSOR

B6236  
ENGINE COOLANT  
TEMPERATURE  
SENSOR

Y6130  
IDLE SPEED  
CONTROL VALVE



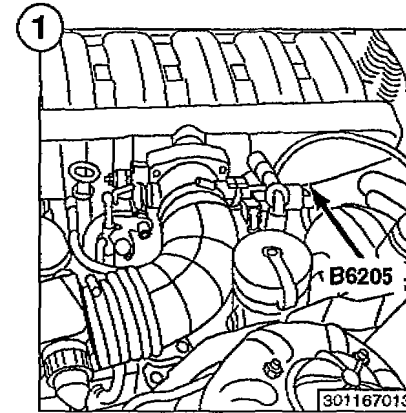
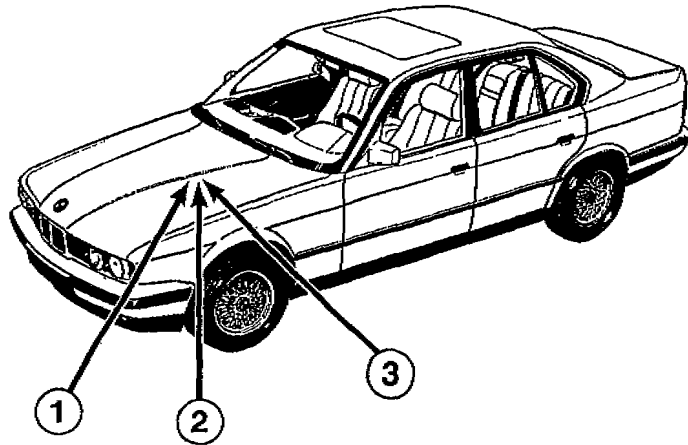
B18  
BRAKE FLUID  
LEVEL SWITCH

Y1  
ABS  
HYDRAULIC UNIT

X31  
X111  
X114

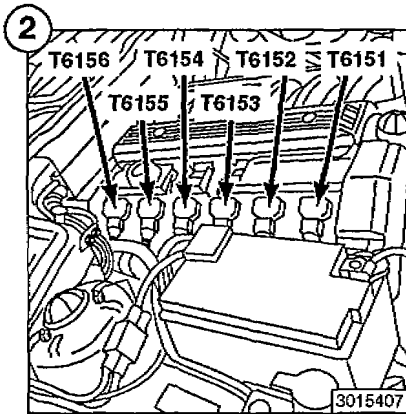


# COMPONENT LOCATION VIEWS



B8205  
INTAKE  
AIR TEMPERATURE  
SENSOR

301167013



T6151  
CYL 1 IGNITION  
COIL

T6152  
CYL 2 IGNITION  
COIL

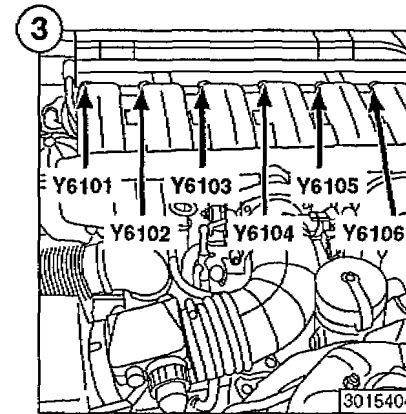
T6153  
CYL 3 IGNITION  
COIL

T6154  
CYL 4 IGNITION  
COIL

T6155  
CYL 5 IGNITION  
COIL

T6158  
CYL 6 IGNITION  
COIL

3015407



Y6101  
CYL 1 FUEL  
INJECTION VALVE

Y6102  
CYL 2 FUEL  
INJECTION VALVE

Y6103  
CYL 3 FUEL  
INJECTION VALVE

Y6104  
CYL 4 FUEL  
INJECTION VALVE

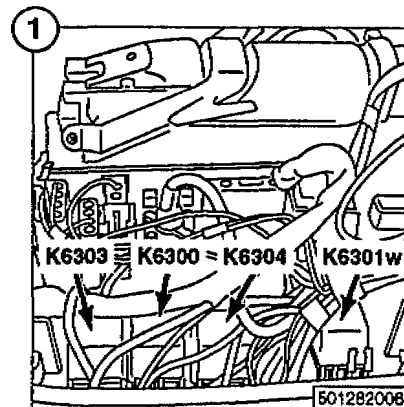
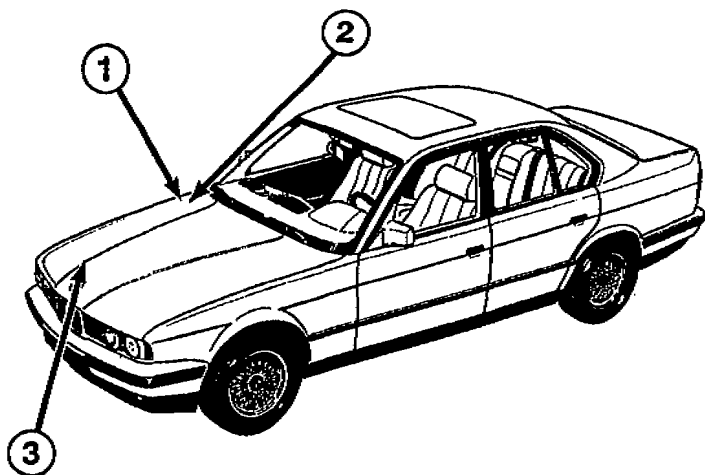
Y6105  
CYL 5 FUEL  
INJECTION VALVE

Y6106  
CYL 6 FUEL  
INJECTION VALVE

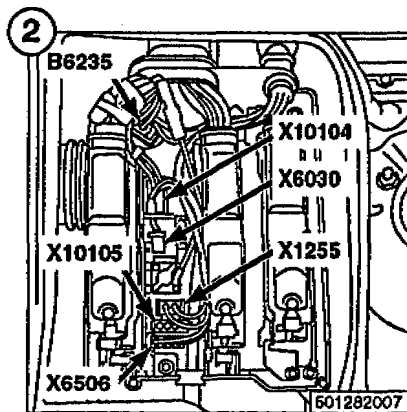
3015404



# COMPONENT LOCATION VIEWS

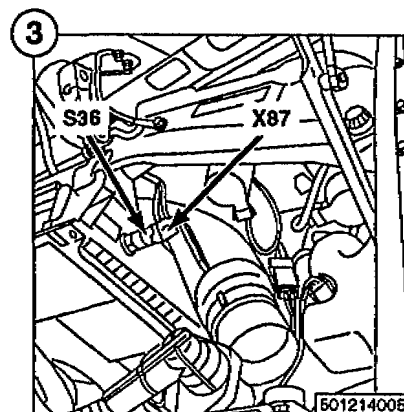


- K6300 ENGINE CONTROL MODULE RELAY
- K6304 SECONDARY AIR PUMP RELAY
- K8301w FUEL PUMP RELAY
- K6303 OXYGEN SENSOR RELAY



B6235  
TEMPERATURE  
SWITCH

- X1255
- X6030
- X10104
- X10105
- X6506



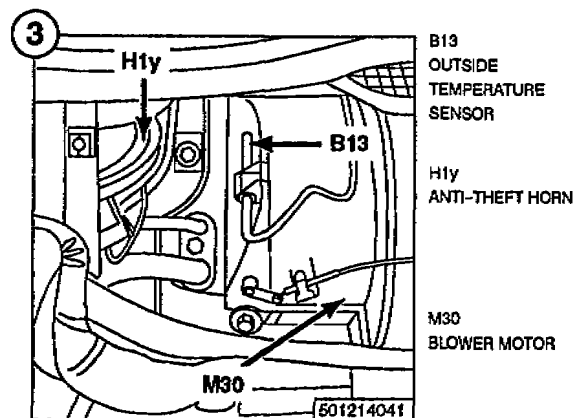
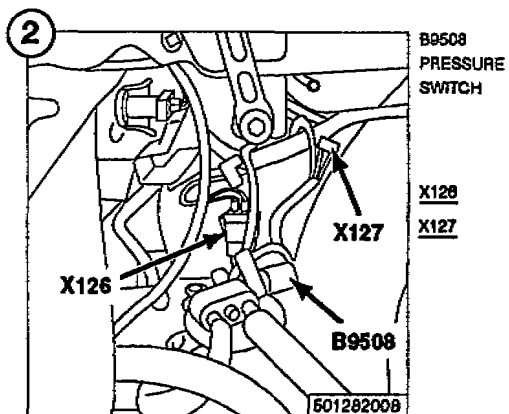
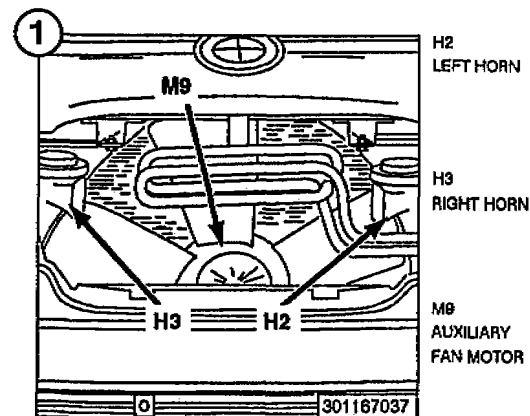
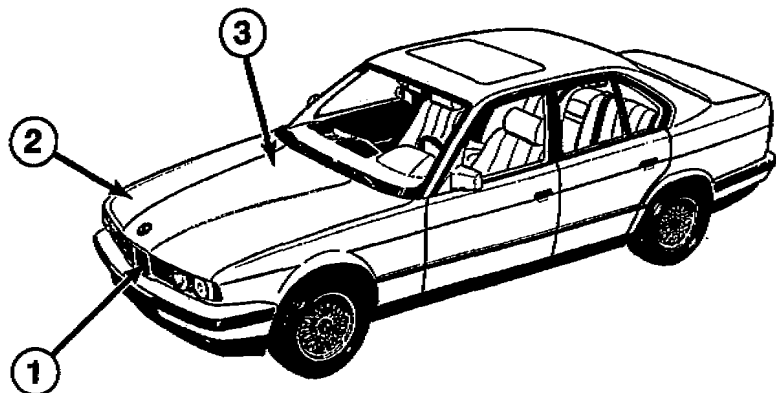
S36  
TEMPERATURE  
SWITCH

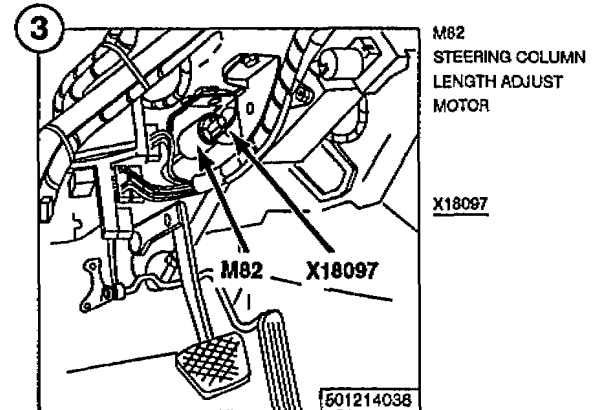
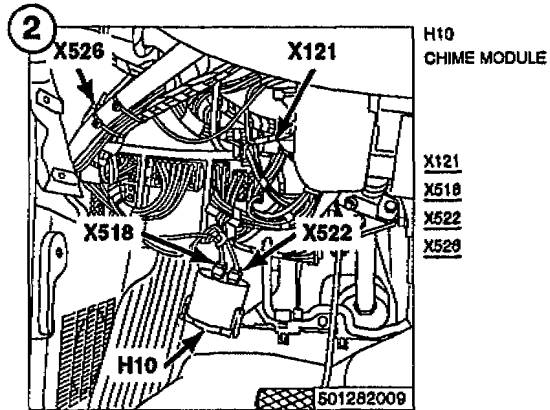
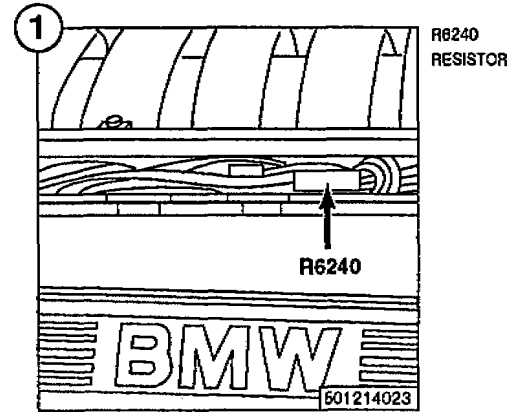
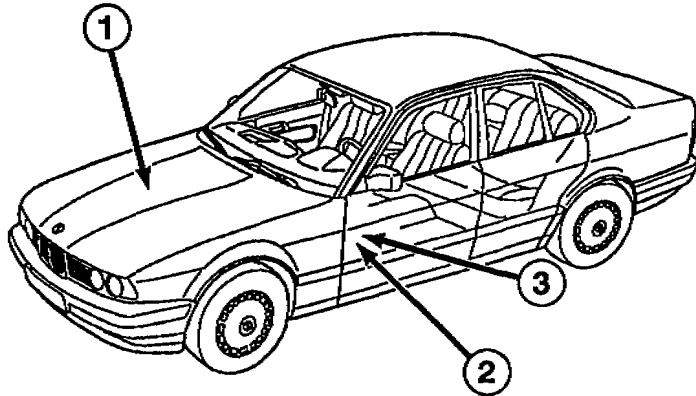
X87



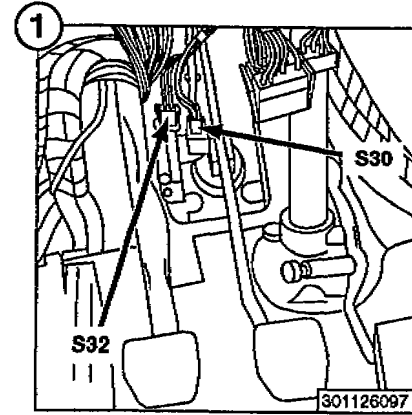
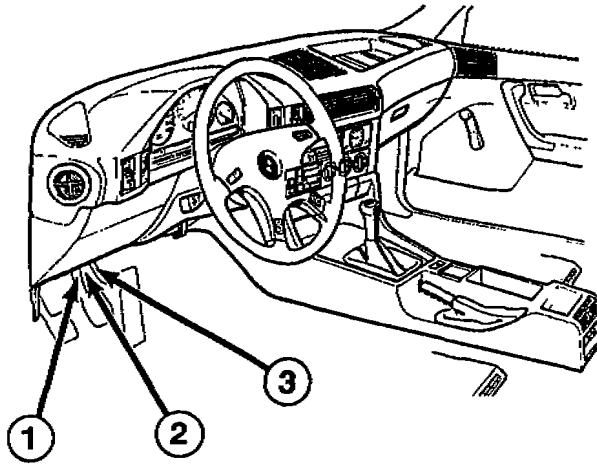


# COMPONENT LOCATION VIEWS



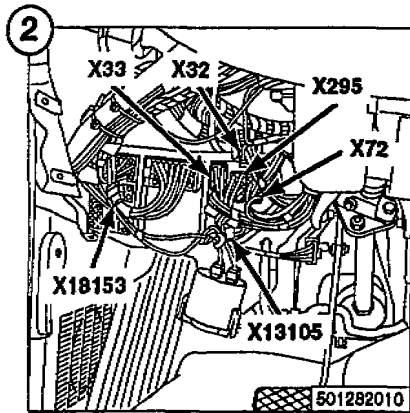


**COMPONENT LOCATION VIEWS**

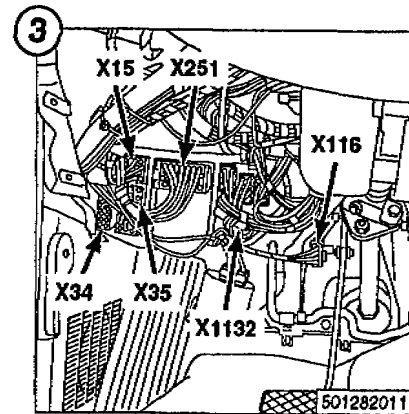


S30  
BRAKE LIGHT  
SWITCH

S32  
CLUTCH SWITCH



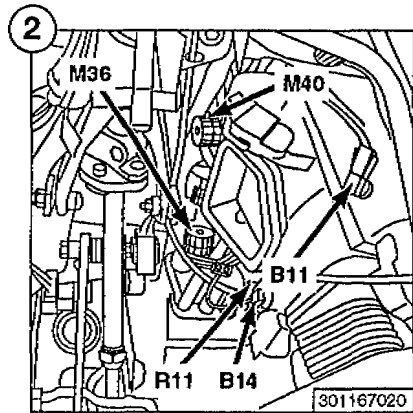
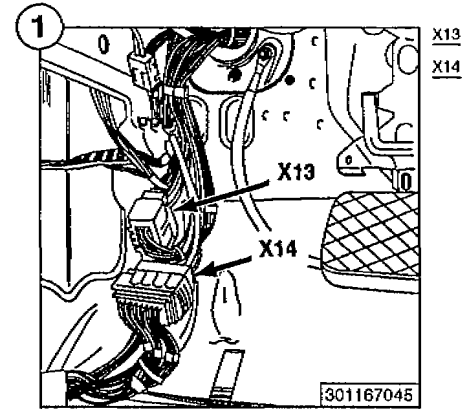
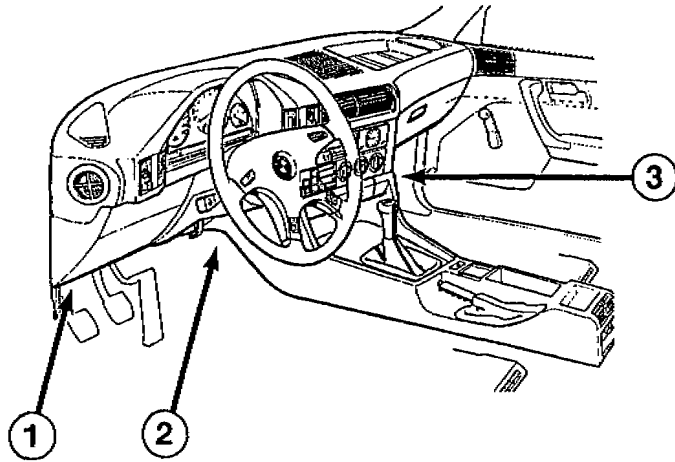
X32  
X33  
X72  
X295  
X13105  
X18153



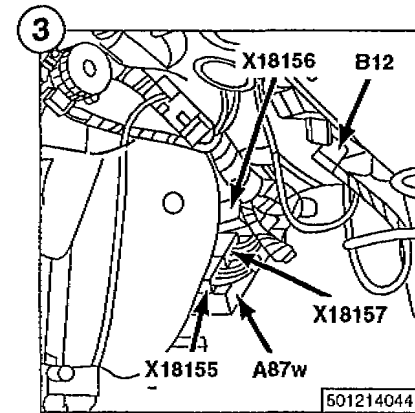
X15  
X34  
X35  
X116  
X251  
X1132



# COMPONENT LOCATION VIEWS



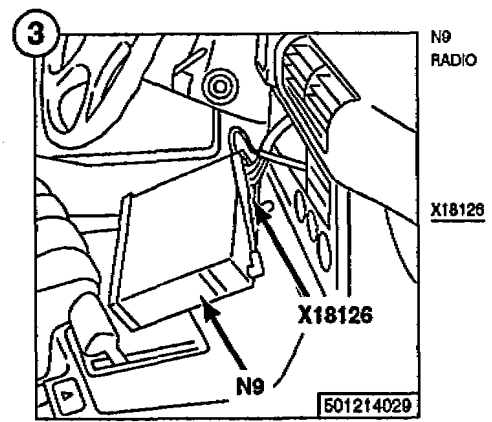
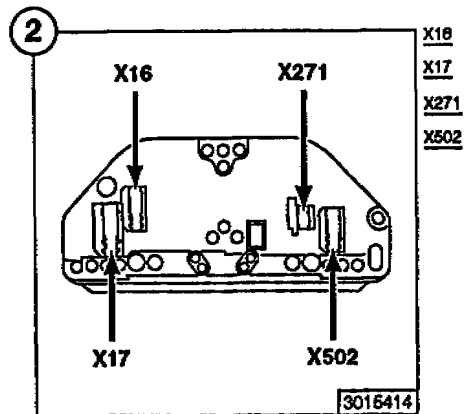
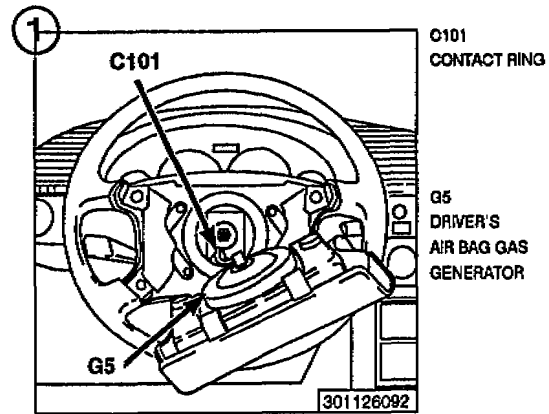
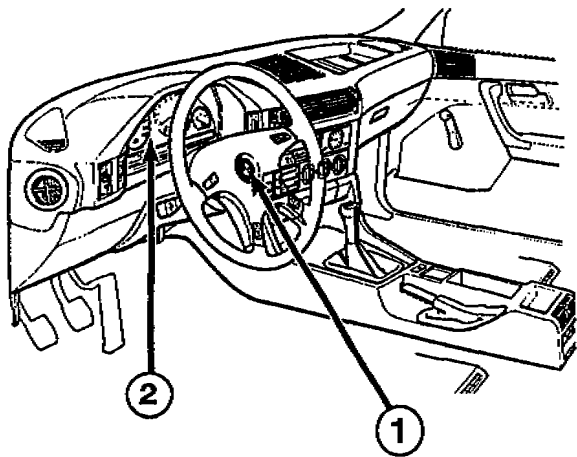
- M36 FRESH AIR FLAP MOTOR
- M40 RECIRCULATION FLAP MOTOR
- B11 LH HEAT EXCHANGER TEMPERATURE SENSOR
- B14 EVAPORATOR TEMPERATURE SENSOR
- R11 BLOWER RESISTORS



- A87w INTEGRATED CLIMATE REGULATION CONTROL MODULE (IHKR/F3)
- B12 RH HEAT EXCHANGER TEMPERATURE SENSOR
- X18155
- X18156
- X18157

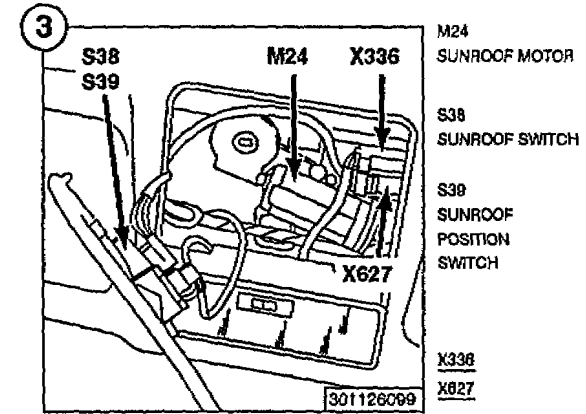
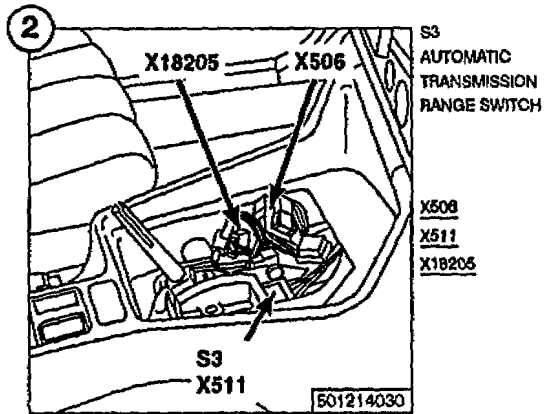
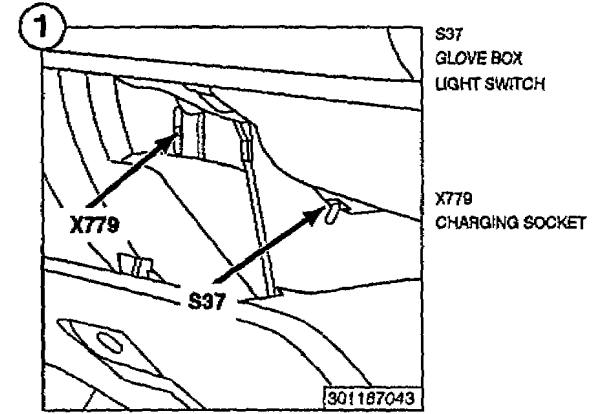
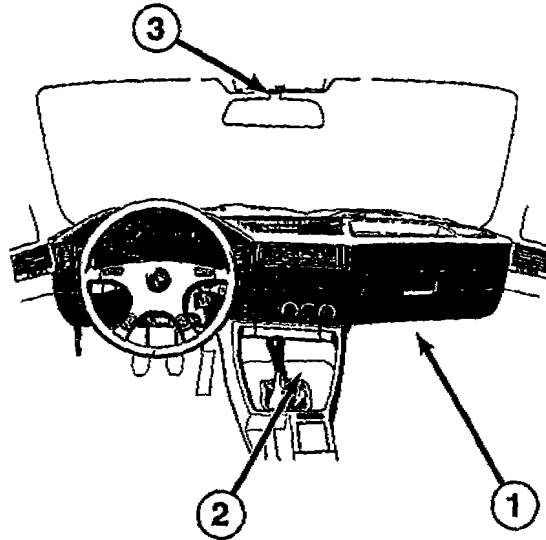


# COMPONENT LOCATION VIEWS



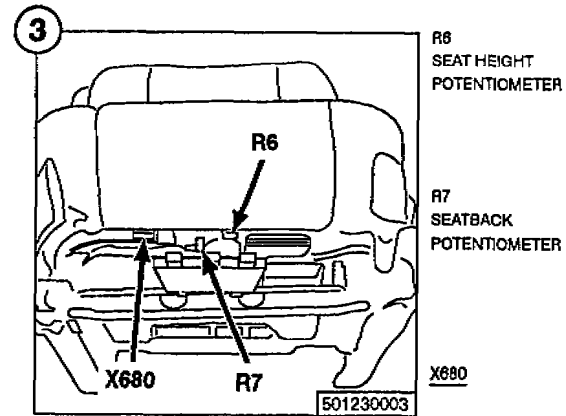
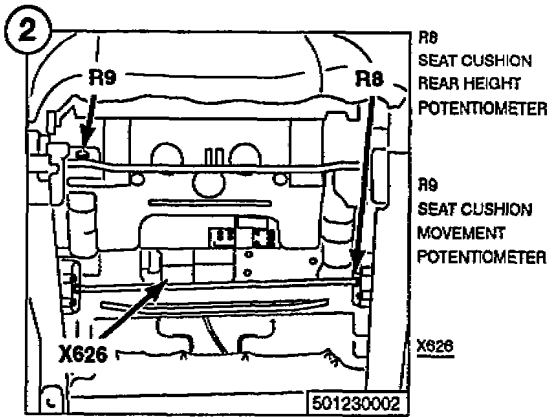
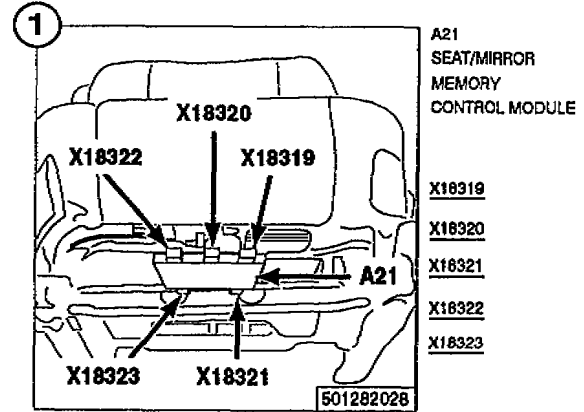
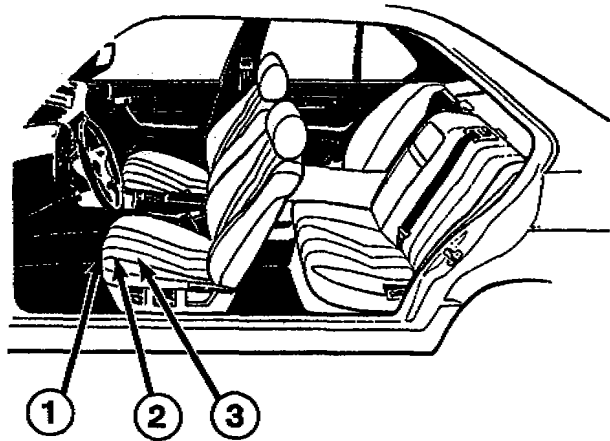


# COMPONENT LOCATION VIEWS



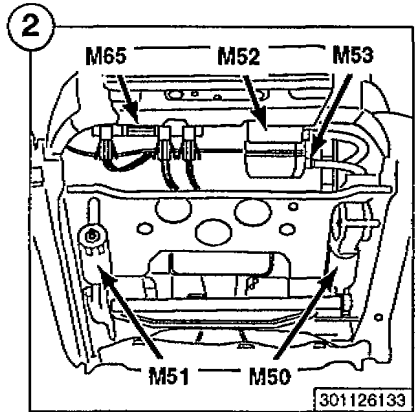
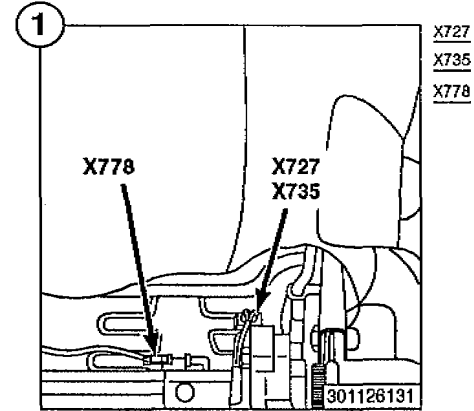
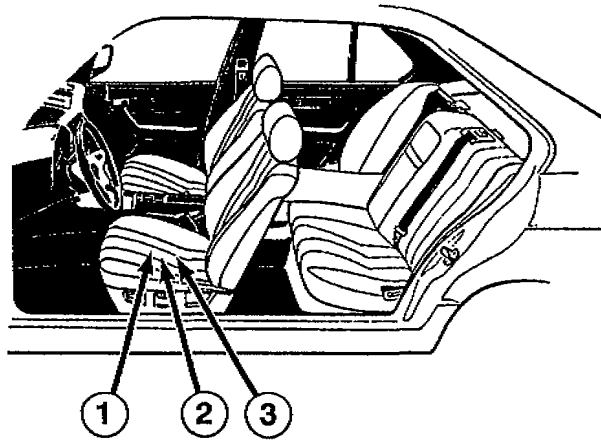


# COMPONENT LOCATION VIEWS

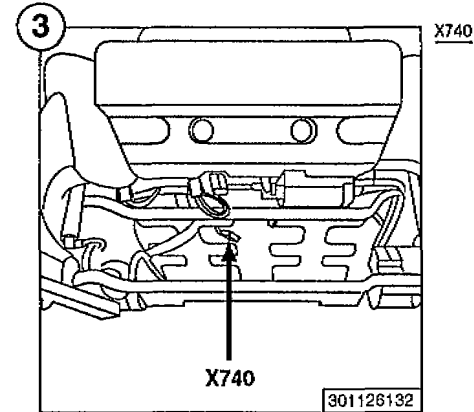




# COMPONENT LOCATION VIEWS



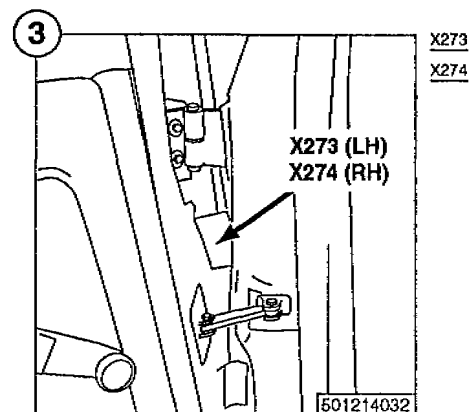
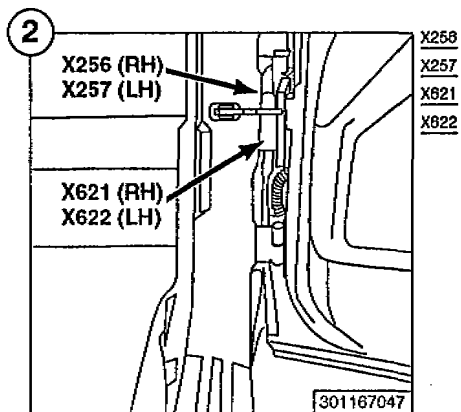
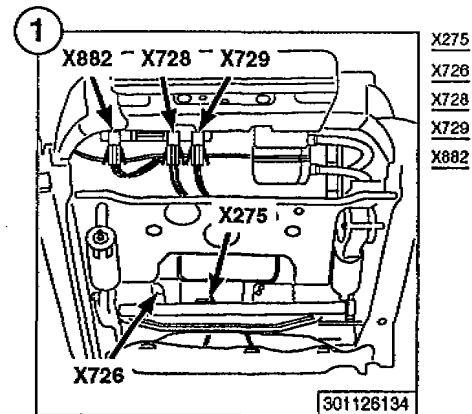
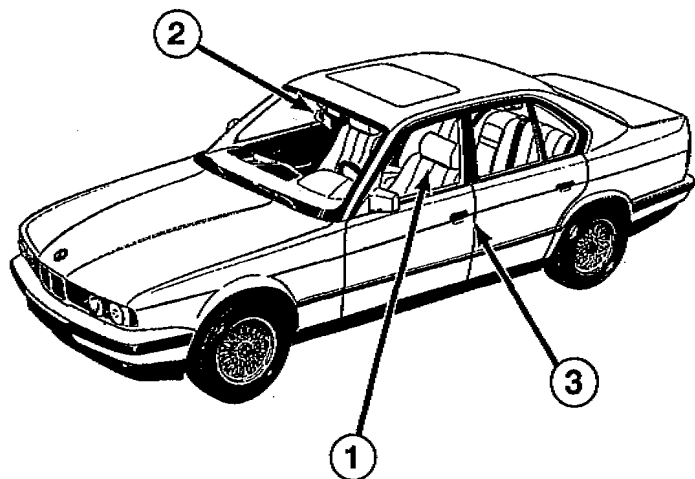
- |   |   |
|---|---|
| M50<br>DRIVER'S<br>SEAT CUSHION<br>TILT MOTOR | M53<br>DRIVER'S<br>SEATBACK<br>RECLINER MOTOR |
| M51<br>DRIVER'S SEAT<br>MOVEMENT MOTOR        | M65<br>DRIVER'S<br>THIGH SUPPORT<br>MOTOR     |
| M52<br>DRIVER'S SEAT<br>HEIGHT MOTOR          |   |





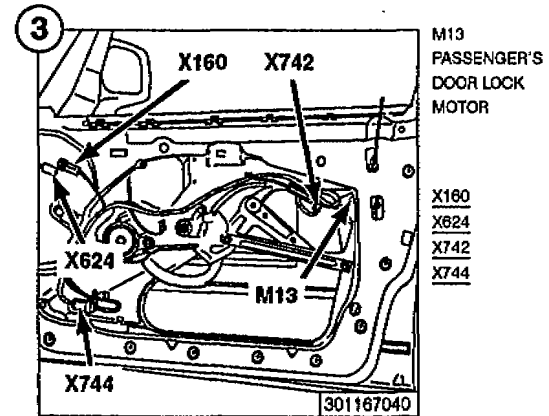
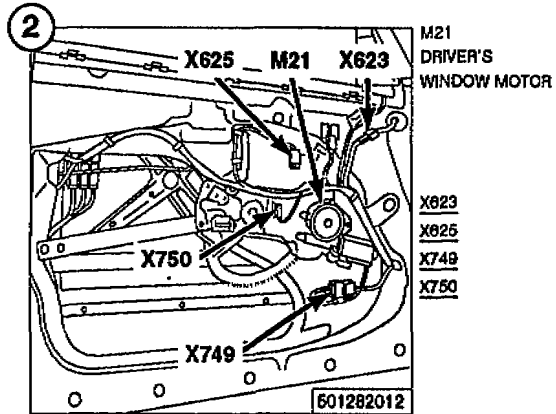
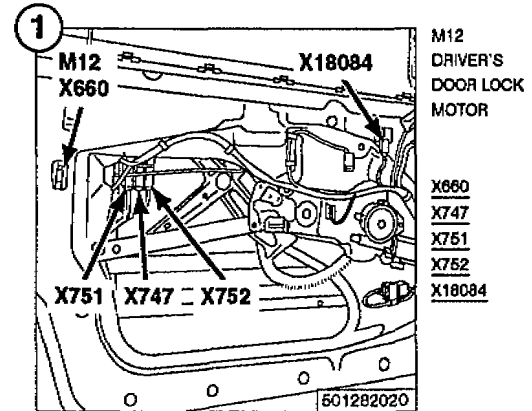
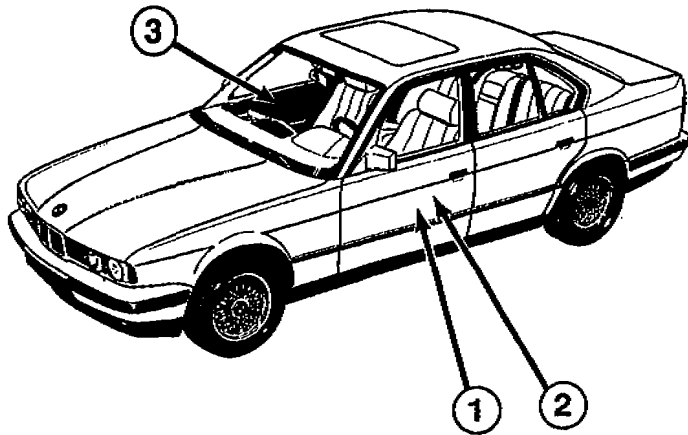


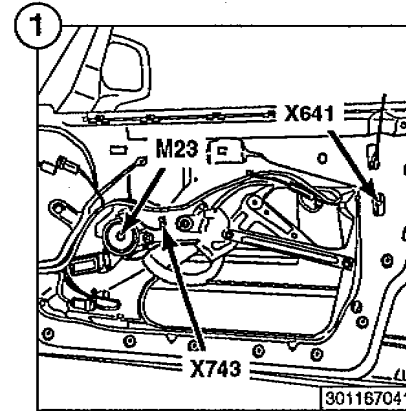
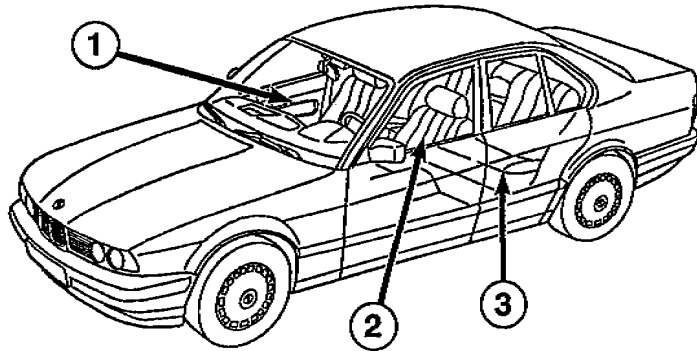
# COMPONENT LOCATION VIEWS





# COMPONENT LOCATION VIEWS

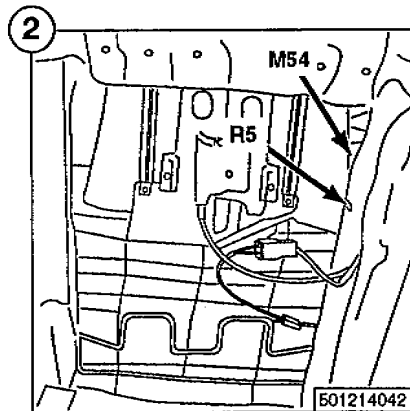




M23  
PASSENGER'S  
WINDOW MOTOR

X641  
X743

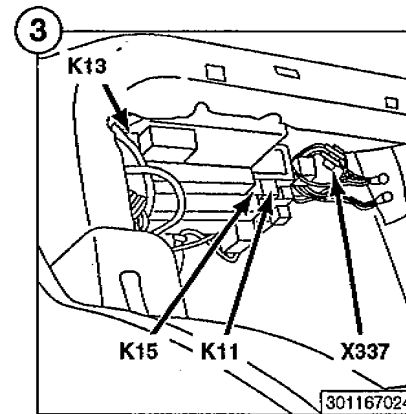
301167041



M54  
DRIVER'S  
HEADREST MOTOR

R5  
HEADREST  
POTENTIOMETER

601214042



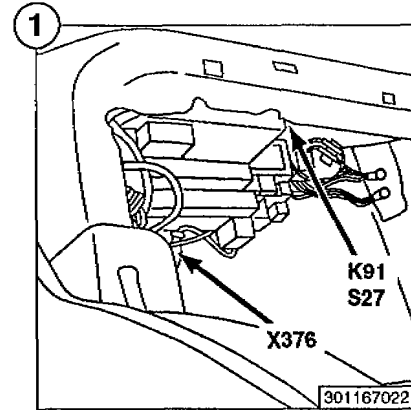
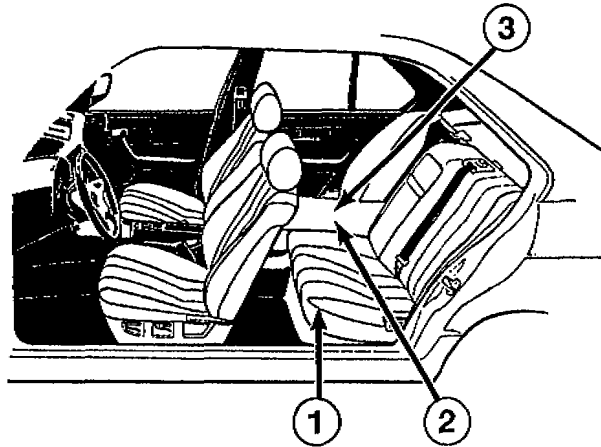
K11  
WIPER RELAY

K13  
REAR DEFOGGER  
RELAY

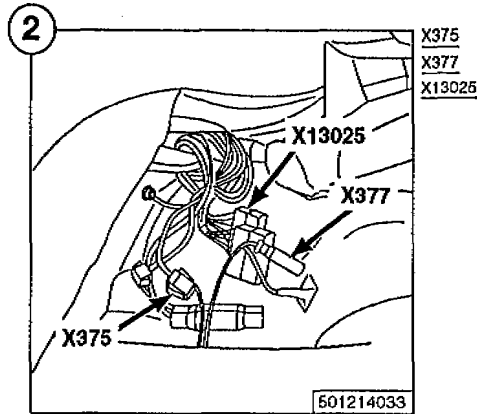
K15  
ELECTRIC  
POWER  
PROTECTION  
RELAY  
X337

301167024

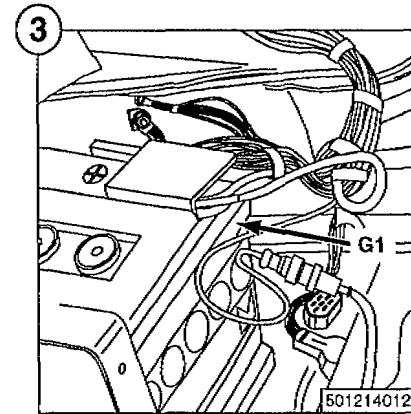
# COMPONENT LOCATION VIEWS



K91  
ON-BOARD  
COMPUTER HORN  
RELAY  
S27  
INERTIA  
SWITCH  
X376



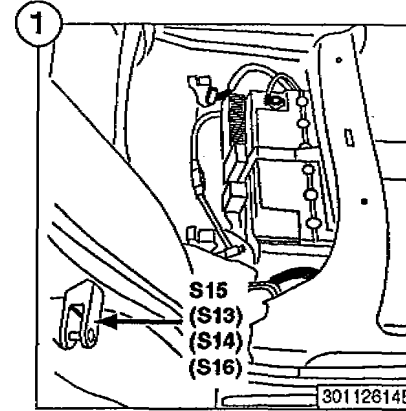
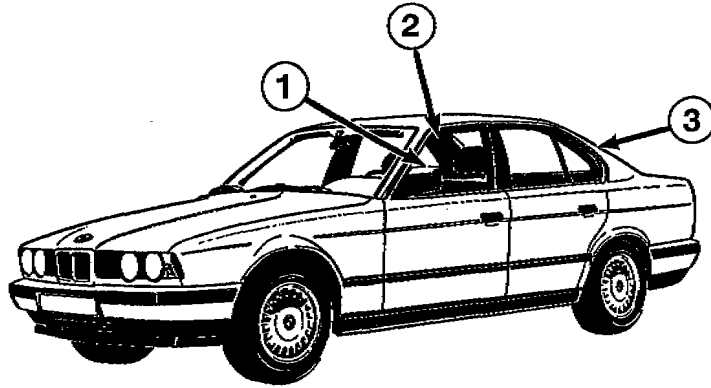
X375  
X377  
X13025



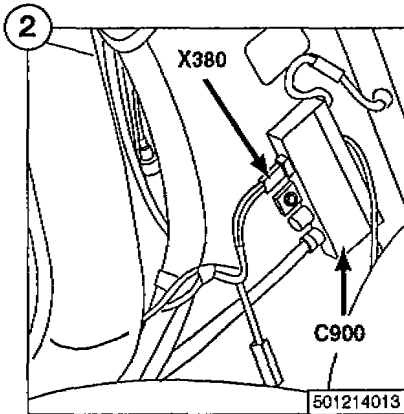
G1  
BATTERY



# COMPONENT LOCATION VIEWS



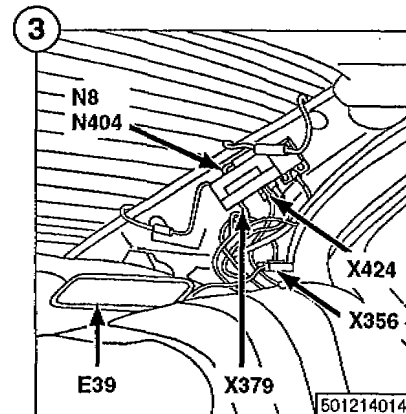
- S13 PASSENGER'S DOOR JAMB SWITCH
- S14 DRIVER'S DOOR JAMB SWITCH
- S15 REAR RIGHT DOOR JAMB SWITCH
- S18 LEFT REAR DOOR JAMB SWITCH



C900 SUPPRESSION FILTER

X380

501214013



E39 LEFT REAR INTERIOR LIGHT

N8 ANTENNA AMPLIFIER AM/FM

N404 DIVERSITY

X356

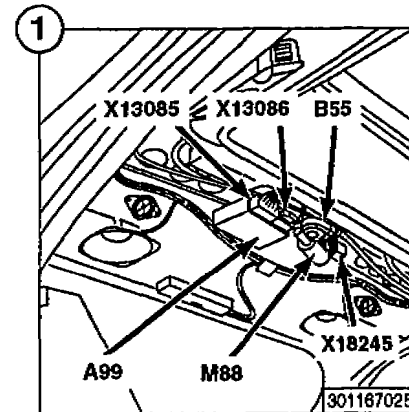
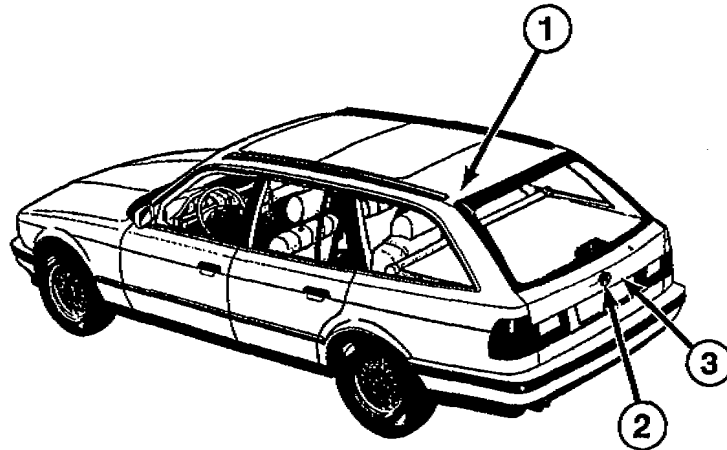
501214014

X379

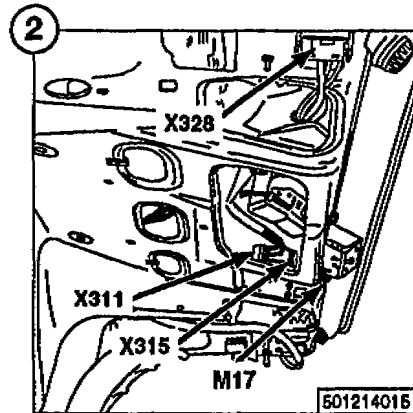
X424



# COMPONENT LOCATION VIEWS

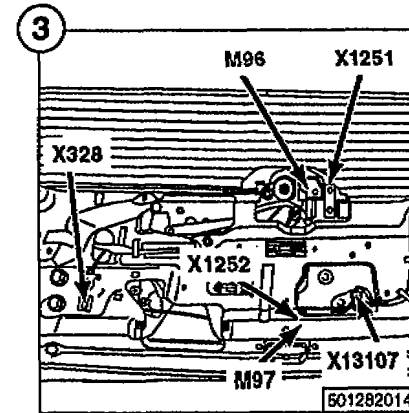


- A99  
DOUBLE PANEL  
POWER SUNROOF  
CONTROL MODULE
- X18245
- B55  
DOUBLE PANEL  
POWER SUN ROOF  
SENSOR II
- M88  
MOTOR DRIVE II  
DOUBLE PANEL  
POWER SUNROOF
- X13085
- X13086



- M17  
TRUNK LOCK  
MOTOR
- X311
- X315
- X328

501214015

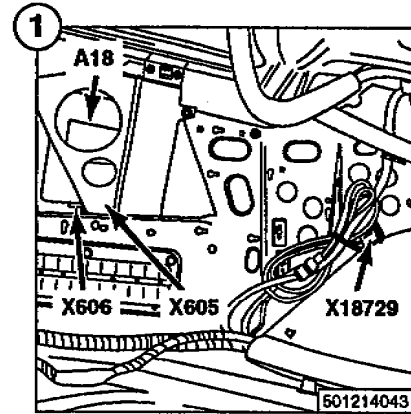
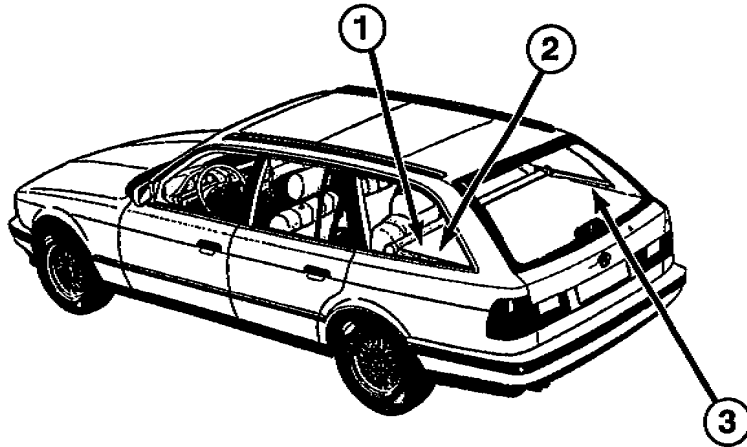


- M96  
REAR WINDOW  
MOTOR
- M87  
LIFT GATE MOTOR
- X328
- X1251
- X1252
- X13107

501282014

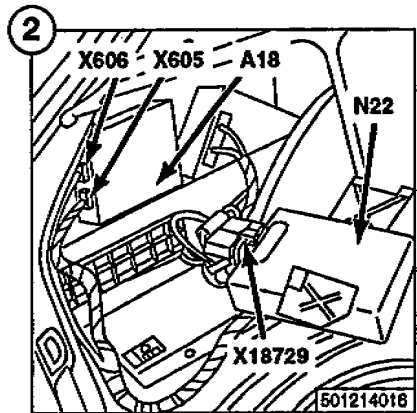


# COMPONENT LOCATION VIEWS



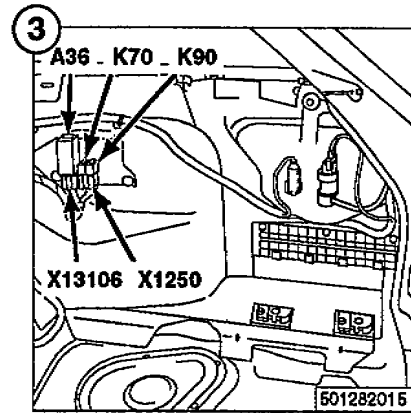
- 1
- A18  
HIFI AMPLIFIER
- X605
- X606
- X18729

501214043



- 2
- X606 - X605 - A18
- N22
- N22  
CD CHANGER
- X605
- X606
- X18729

501214016

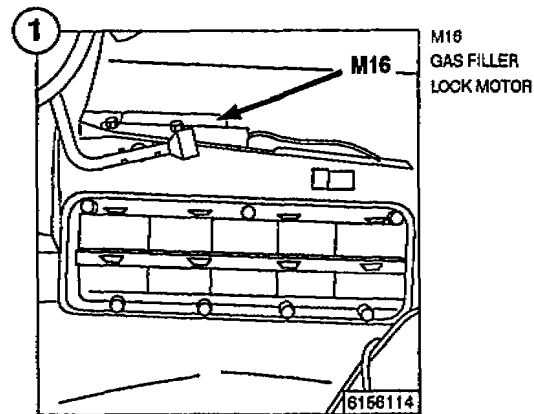
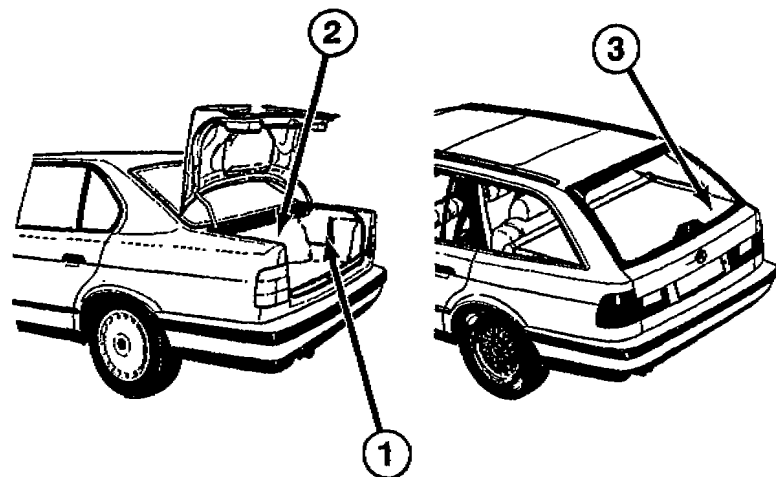


- 3
- A36 - K70 - K90
- A36
- REAR  
WIPER/WASHER  
INTERVAL  
CONTROL MODULE
- X1250
- X13108
- K70
- CENTRAL LOCKING  
TRUNK LID  
MOTOR RELAY  
(ZV)
- K90
- WINDOW MOTOR  
RELAY

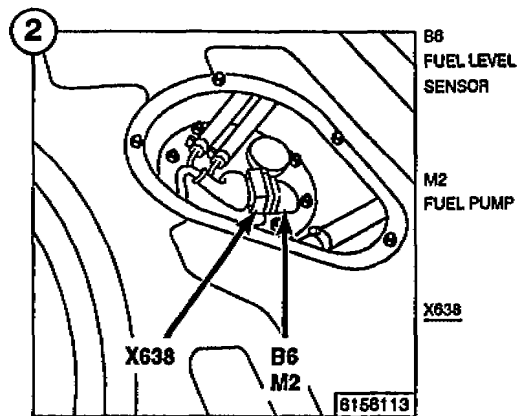
501282015



# COMPONENT LOCATION VIEWS



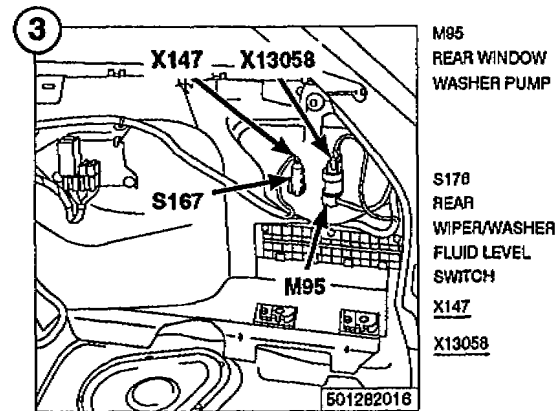
M16  
GAS FILLER  
LOCK MOTOR



B6  
FUEL LEVEL  
SENSOR

M2  
FUEL PUMP

X638



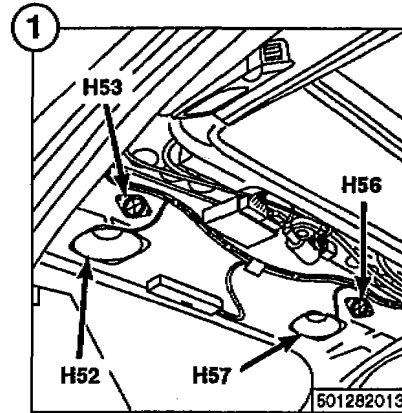
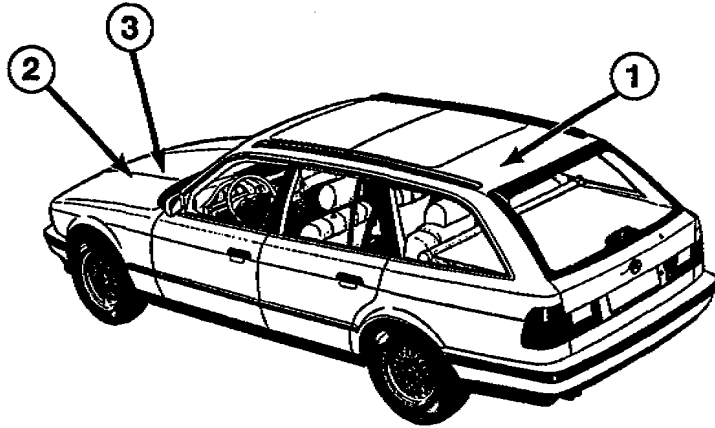
M85  
REAR WINDOW  
WASHER PUMP

S178  
REAR  
WIPER/WASHER  
FLUID LEVEL  
SWITCH

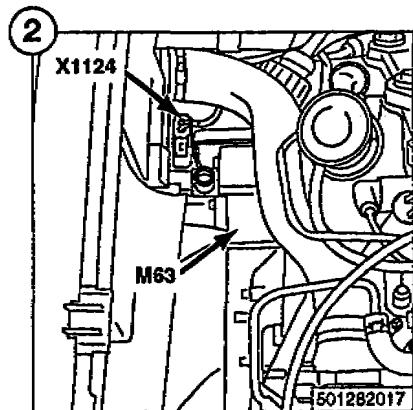
X147

X13058





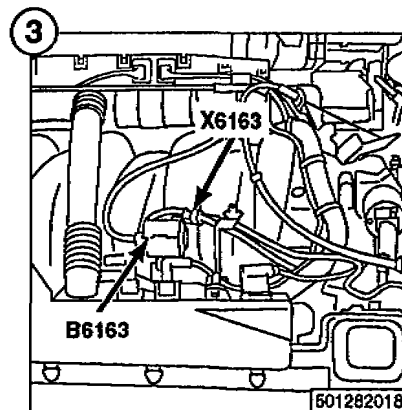
- H52  
RIGHT REAR  
LOW RANGE  
SPEAKER
- H53  
RIGHT REAR  
HIGH RANGE  
SPEAKER
- H56  
LEFT REAR  
HIGH RANGE  
SPEAKER
- H57  
LEFT REAR  
LOW RANGE  
SPEAKER



M63  
SECONDARY AIR  
PUMP

X1124

501282017



B6163  
SECONDARY  
AIR PUMP  
VALVE

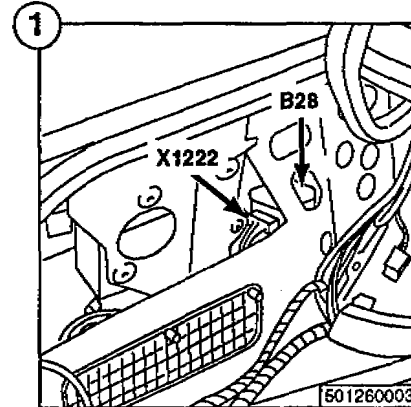
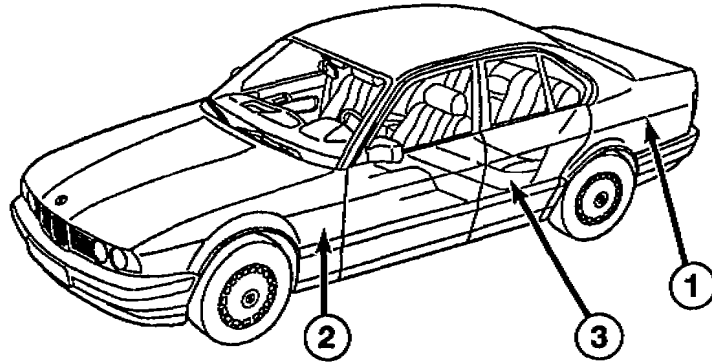
X6163

501282018



# COMPONENT LOCATION VIEWS

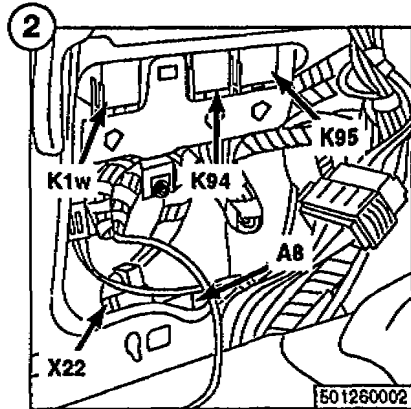
## ELECTRICAL CONTROL MODULE LOCATIONS



B28  
GRADIENT  
MONITOR (DWA)

X1222

501260003



A8  
CRUISE CONTROL  
MODULE  
(TEMPOMAT)

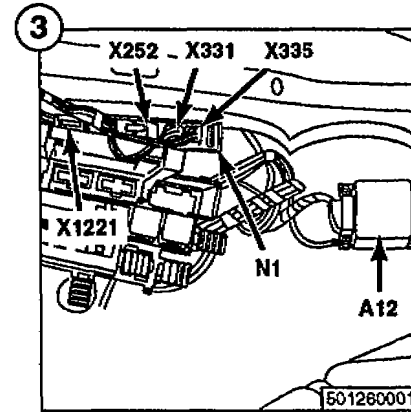
K1w  
STARTER  
IMMOBILIZATION  
RELAY

K94  
ABS PUMP  
MOTOR RELAY

K95  
VALVE RELAY  
(ABS/ASC)

X22

501260002



A12  
SUPPLEMENTAL  
RESTRAINT  
SYSTEM  
CONTROL MODULE  
N1  
ANTI-THEFT  
CONTROL MODULE  
(DWA)

X252

X331

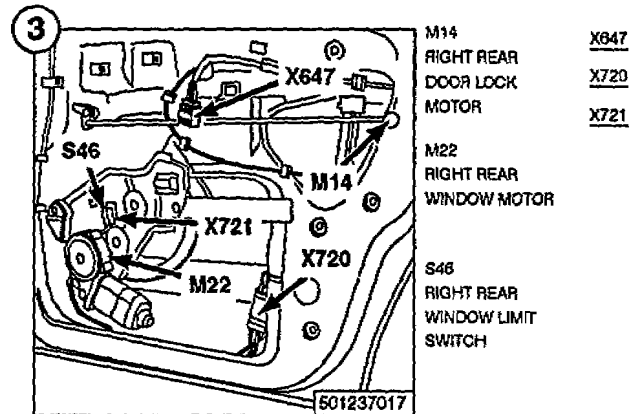
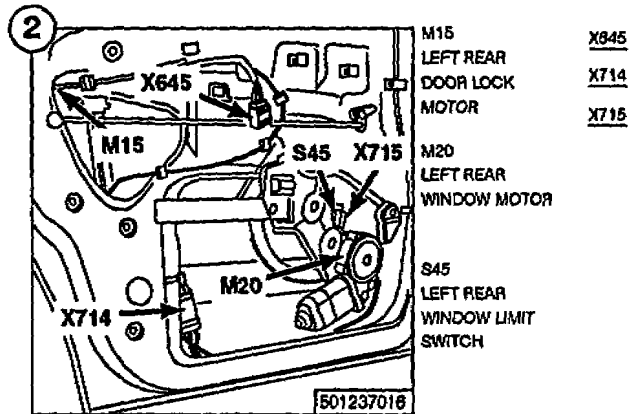
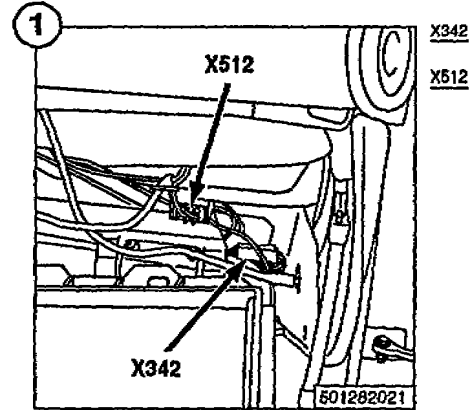
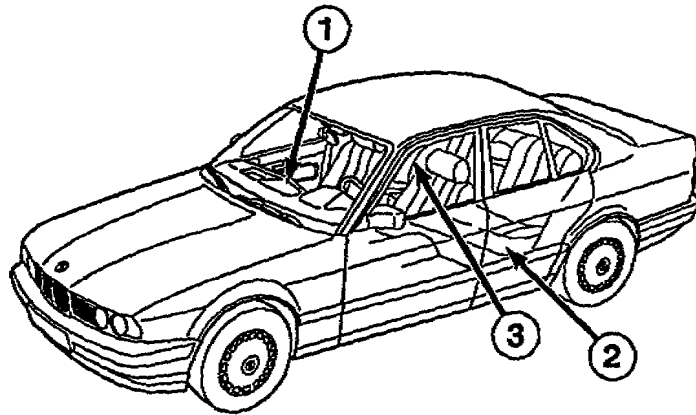
X335

X1221

501260001



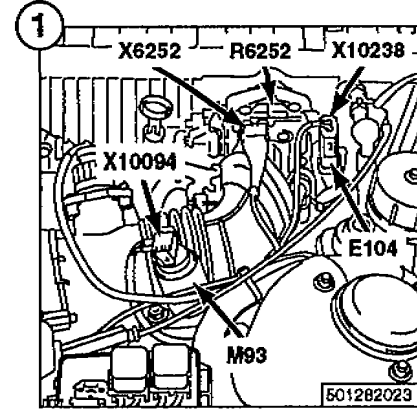
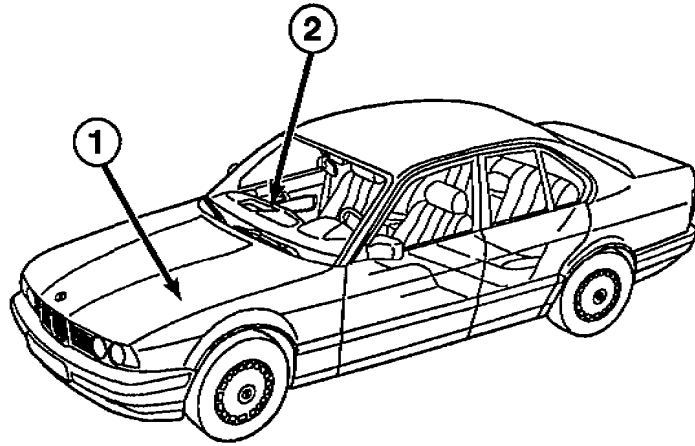
# COMPONENT LOCATION VIEWS



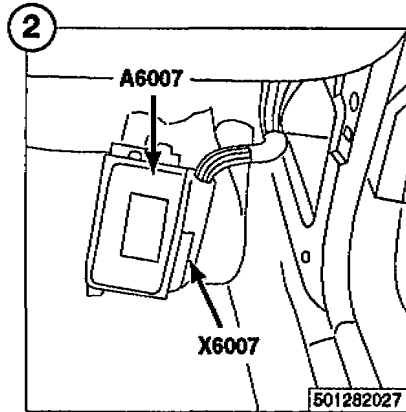


# COMPONENT LOCATION VIEWS

## ELECTRICAL CONTROL MODULE LOCATIONS



- E104 THROTTLE FLAP HEATER
- X8252
- X10094
- X10238
- M93 AUXILIARY THROTTLE POSITION MOTOR (ADS)
- R6252 THROTTLE POSITION SENSOR



- A6007 ELECTRONIC THROTTLE CONTROL MODULE (ADS II)

X6007

501282027



# SPLICE LOCATION VIEWS

## SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X181-X189	FRONT	8000.0-03	X448-X451	REAR	8000.0-05
X190	FRONT	8000.0-03	X455-X470	REAR	8000.0-05
X191-X193	FRONT	8000.0-03	X475	REAR	8000.0-05
X195-X201	FRONT	8000.0-03	X479	REAR	8000.0-05
X203-X207	FRONT	8000.0-03	X481	REAR	8000.0-05
X209	FRONT	8000.0-03	X485	REAR	8000.0-05
X210	FRONT	8000.0-03	X488	REAR	8000.0-05
X212	FRONT	8000.0-03	X489	REAR	8000.0-05
X213	FRONT	8000.0-03	X499	REAR	8000.0-05
X215	FRONT	8000.0-03	X557	INSTRUMENT	8000.0-04
X217	FRONT	8000.0-03	X561-X564	INSTRUMENT	8000.0-04
X222-X225	FRONT	8000.0-03	X571-X573	INSTRUMENT	8000.0-04
X228	FRONT	8000.0-03	X575-X577	INSTRUMENT	8000.0-04
X239	FRONT	8000.0-03	X579-X584	INSTRUMENT	8000.0-04
X241	FRONT	8000.0-03	X833	REAR	8000.0-05
X245	FRONT	8000.0-03	X906	IHKR/F3	8000.0-06
X246	FRONT	8000.0-03	X911	REAR	8000.0-05
X276	FRONT	8000.0-03	X994	FRONT	8000.0-03
X282	REAR	8000.0-05	X1017	FRONT	8000.0-03
X414	REAR	8000.0-05	X1022	FRONT	8000.0-03
X426	REAR	8000.0-05	X1023	FRONT	8000.0-03
X428	REAR	8000.0-05	X1029	FRONT	8000.0-03
X429	REAR	8000.0-05	X1033	FRONT	8000.0-03
X431	REAR	8000.0-05	X1036	FRONT	8000.0-03
X433	REAR	8000.0-05	X1043	FRONT	8000.0-03
X435	REAR	8000.0-05	X1047	FRONT	8000.0-03
X439	REAR	8000.0-05	X1152	FRONT	8000.0-03
X441-X445	REAR	8000.0-05	X1092-X1095	FRONT	8000.0-03



# SPLICE LOCATION VIEWS

## SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X1149	FRONT	8000.0-03	X6475	M60 ENGINE	8000.0-07
X1159	INSTRUMENT	8000.0-04	X6475	M50 ENGINE	8000.0-08
X1224	REAR	8000.0-05	X6491	M60 ENGINE	8000.0-07
X1225	INSTRUMENT	8000.0-04	X6810	M60 ENGINE	8000.0-07
X1226	REAR	8000.0-05	X6810	M50 ENGINE	8000.0-08
X1228	REAR	8000.0-05	X6820	M60 ENGINE	8000.0-07
X1256-X1258	REAR	8000.0-05	X6820	M50 ENGINE	8000.0-08
X1294	REAR	8000.0-05	X6821	M60 ENGINE	8000.0-07
X1304	REAR	8000.0-05	X6821	M50 ENGINE	8000.0-08
X1306	REAR	8000.0-05	X6822	M50 ENGINE	8000.0-08
X1362	REAR	8000.0-05	X6825	M60 ENGINE	8000.0-07
X1366	REAR	8000.0-05	X6824	M50 ENGINE	8000.0-08
X1367	REAR	8000.0-05	X6829	M60 ENGINE	8000.0-07
X1402	INSTRUMENT	8000.0-04	X6830	M50 ENGINE	8000.0-08
X1414	REAR	8000.0-05	X6830	M60 ENGINE	8000.0-07
X1417	INSTRUMENT	8000.0-04	X6831	M50 ENGINE	8000.0-08
X1418	INSTRUMENT	8000.0-04	X6835	M50 ENGINE	8000.0-08
X1419	INSTRUMENT	8000.0-04	X6836	M60 ENGINE	8000.0-07
X1421-X1423	INSTRUMENT	8000.0-04	X6841	M60 ENGINE	8000.0-07
X1428	INSTRUMENT	8000.0-04	X6842	M60 ENGINE	8000.0-07
X6245	M60 ENGINE	8000.0-07	X6845	M60 ENGINE	8000.0-07
X6410	M50 ENGINE	8000.0-08	X6845	M50 ENGINE	8000.0-08
X6411	M50 ENGINE	8000.0-08	X6846	M50 ENGINE	8000.0-08
X6412	M60 ENGINE	8000.0-07	X6846-X6848	M60 ENGINE	8000.0-07
X6420	M50 ENGINE	8000.0-08	X6860	M50 ENGINE	8000.0-08
X6458	M60 ENGINE	8000.0-07	X6863	M50 ENGINE	8000.0-08
X6459	M60 ENGINE	8000.0-07	X6863	M60 ENGINE	8000.0-07
X6459	M50 ENGINE	8000.0-08	X6866	M60 ENGINE	8000.0-07



# SPLICE LOCATION VIEWS

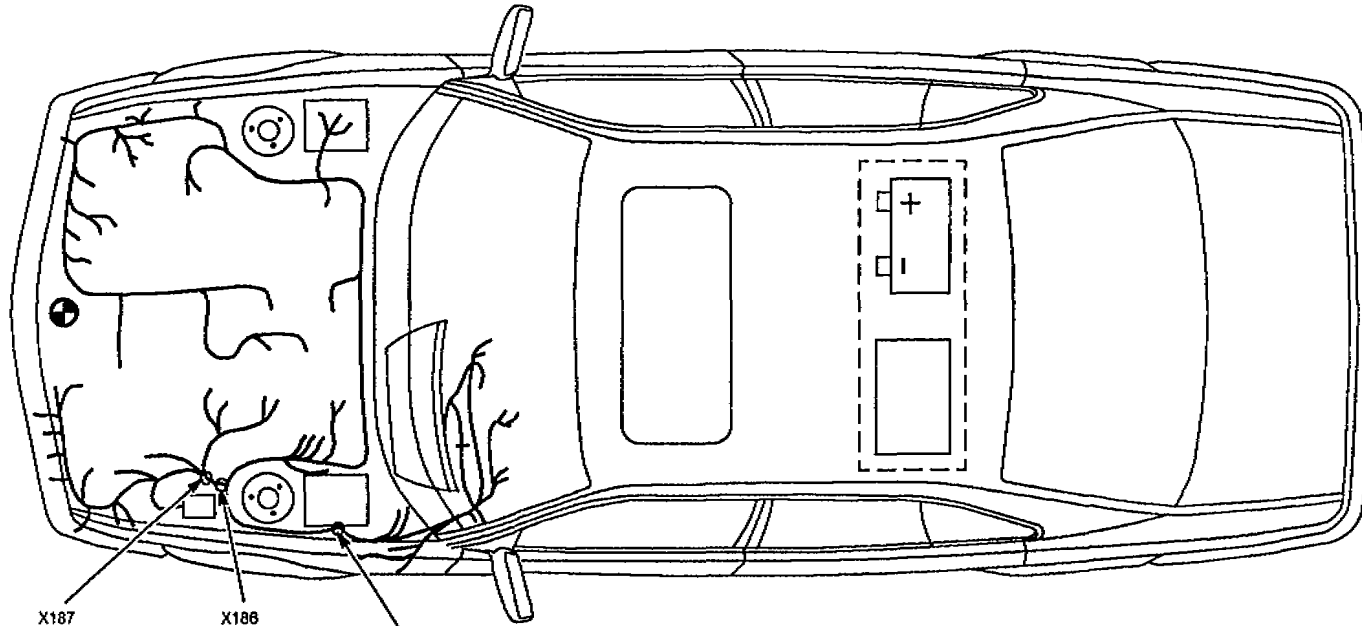
## SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X6866	M50 ENGINE	8000.0-08	X10080	FRONT	8000.0-03
X6880	M50 ENGINE	8000.0-08	X10081	FRONT	8000.0-03
X6900-X6906	M50 ENGINE	8000.0-08	X10090	FRONT	8000.0-03
X6901-X6908	M60 ENGINE	8000.0-07	X10091	FRONT	8000.0-03
X8004	M60 ENGINE	8000.0-07	X10093	FRONT	8000.0-03
X8004	M50 ENGINE	8000.0-08	X11247	FRONT	8000.0-03
X8007	M60 ENGINE	8000.0-07	X11248	FRONT	8000.0-03
X8007	M50 ENGINE	8000.0-08	X11249	FRONT	8000.0-03
X8010	M60 ENGINE	8000.0-07	X11251	FRONT	8000.0-03
X8010	M50 ENGINE	8000.0-08	X11252	FRONT	8000.0-03
X8015	M60 ENGINE	8000.0-07	X11262	FRONT	8000.0-03
X8015	M50 ENGINE	8000.0-08	X11263	FRONT	8000.0-03
X8022	M50 ENGINE	8000.0-08	X13035	REAR	8000.0-05
X8024	REAR	8000.0-05	X13074	REAR	8000.0-05
X8041	M60 ENGINE	8000.0-07	X13240	REAR	8000.0-05
X8042	M50 ENGINE	8000.0-08	X13241	REAR	8000.0-05
X8051	M50 ENGINE	8000.0-08	X13244-X13250	REAR	8000.0-05
X8054	M50 ENGINE	8000.0-08	X13259	REAR	8000.0-05
X8056	M50 ENGINE	8000.0-08	X18158-X18163	IHKR/F3	8000.0-06
X8071	M50 ENGINE	8000.0-08	X18328	FRONT	8000.0-03
X8072	M60 ENGINE	8000.0-07	X19525	FRONT	8000.0-03
X8072	M50 ENGINE	8000.0-08	X19526	FRONT	8000.0-03
X8074	M60 ENGINE	8000.0-07			
X8528	M60 ENGINE	8000.0-07			
X8561	M60 ENGINE	8000.0-07			
X10021	FRONT	8000.0-03			
X10027	FRONT	8000.0-03			
X10060	FRONT	8000.0-03			



# SPLICE LOCATION VIEWS

## FRONT HARNESS



X187

X186

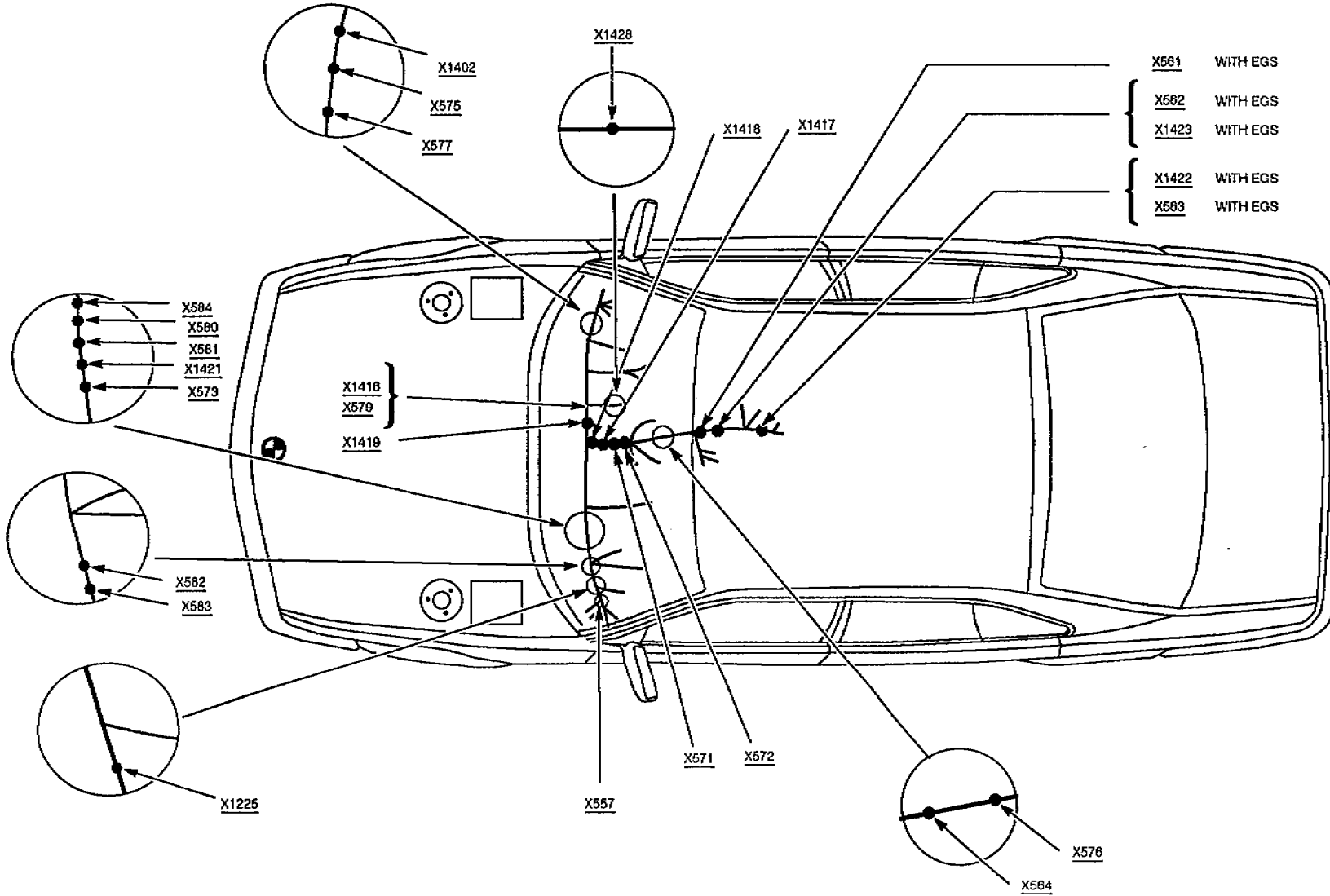
X181	•	X196	•	X210	•	X246	•	X1093	•	X10091	•
X182	•	X197	•	X212	•	X276	•	X1094	•	X10093	•
X183	•	X198	•	X213	•	X994	•	X1095	•	X11247	•
X184	•	X199	•	X215	•	X1017	•	X1149	•	X11248	•
X185	•	X200	•	X222	•	X1022	•	X1162	•	X11249	•
X188	•	X201	•	X223	•	X1023	•	X1159	•	X11251	•
X189	•	X203	•	X224	•	X1029	•	X10021	•	X11252	•
X190	•	X204	•	X225	•	X1033	•	X10027	•	X11262	•
X191	•	X205	•	X228	•	X1038	•	X10060	•	X11263	•
X192	•	X206	•	X239	•	X1043	•	X10080	•	X18328	•
X193	•	X207	•	X241	•	X1047	•	X10081	•	X19525	•
X195	•	X209	•	X245	•	X1092	•	X10090	•	X19526	•





# SPLICE LOCATION VIEWS

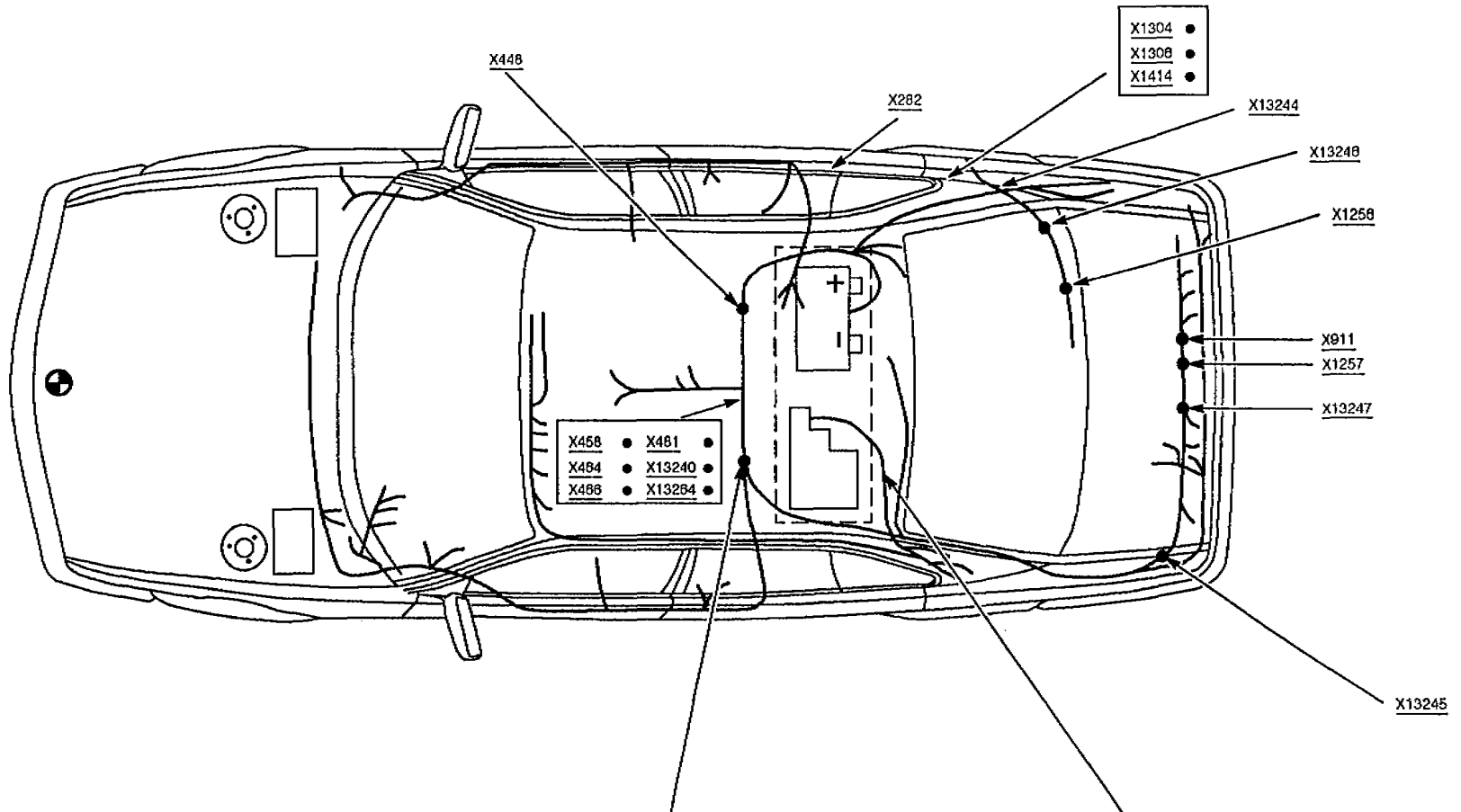
## INSTRUMENT HARNESS





# SPLICE LOCATION VIEWS

## REAR HARNESS



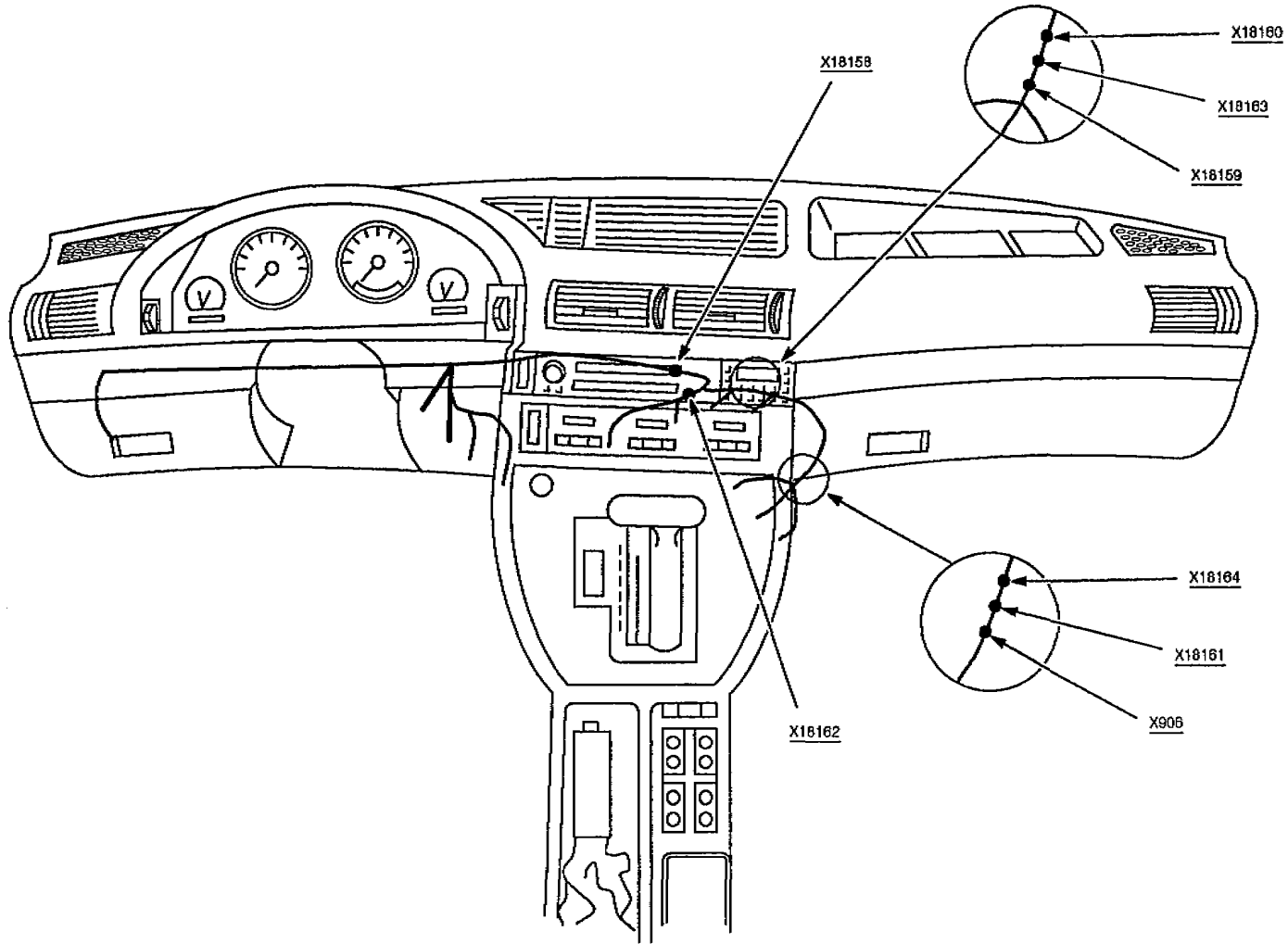
X414	•	X448	•	X483	•	X499	•	X13241	•
X428	•	X451	•	X487	•	X833	•	X13249	•
X433	•	X455	•	X488	•	X1228	•	X13250	•
X435	•	X456	•	X470	•	X1366	•		
X439	•	X459	•	X475	•	X1367	•		
X443	•	X460	•	X479	•	X13047	•		
X444	•	X461	•	X488	•	X13116	•		
X445	•	X462	•	X489	•	X13117	•		

X426	•	X485	•	X13248	•
X431	•	X1224	•	X13259	•
X441	•	X1228	•		
X442	•	X1258	•		
X450	•	X1294	•		
X457	•	X1362	•		
X465	•	X8024	•		
X469	•	X13115	•		



# SPLICE LOCATION VIEWS

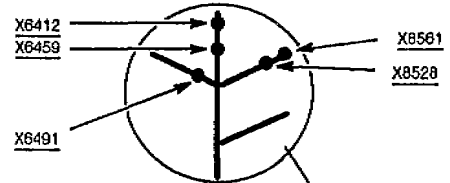
IHKR/F3



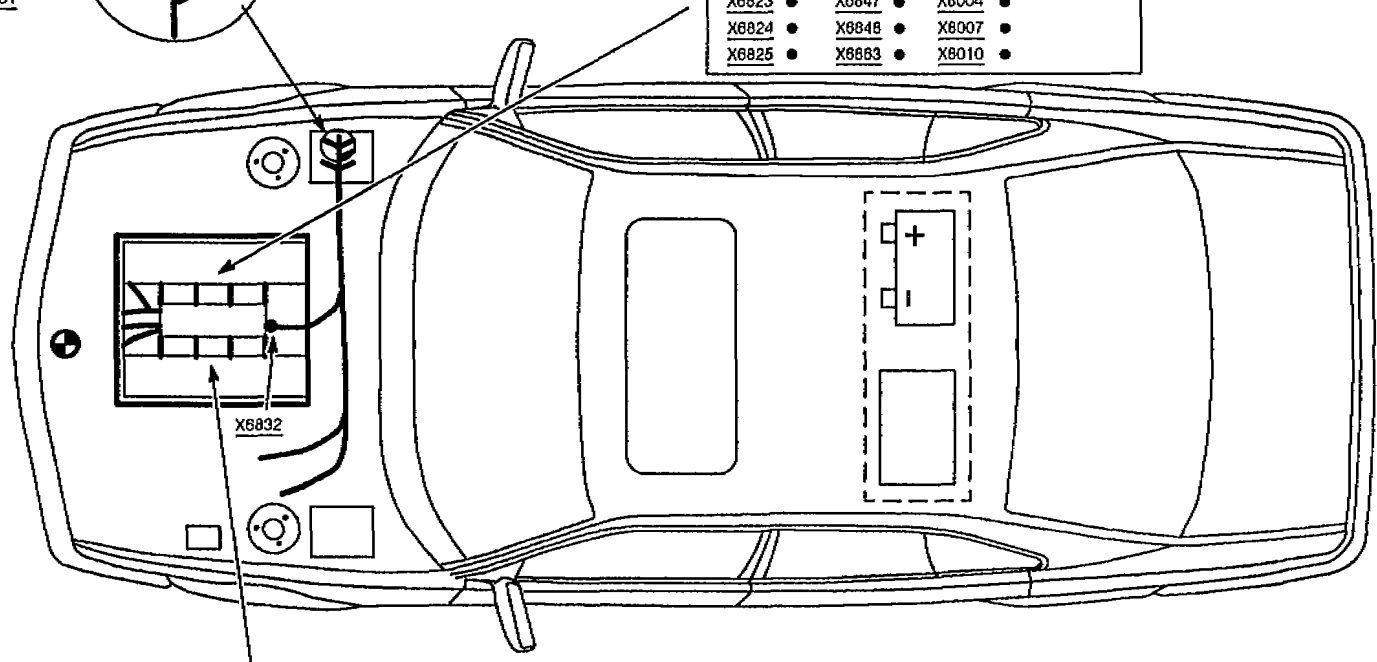


# SPLICE LOCATION VIEWS

## M60 HARNESS



X6245 ●	X6830 ●	X6866 ●	X8015 ●
X8458 ●	X6836 ●	X6901 ●	X8041 ●
X6475 ●	X6841 ●	X6902 ●	X8072 ●
X6810 ●	X6845 ●	X6903 ●	X8074 ●
X6821 ●	X6846 ●	X6904 ●	
X6823 ●	X6847 ●	X8004 ●	
X6824 ●	X6848 ●	X8007 ●	
X6825 ●	X6883 ●	X8010 ●	

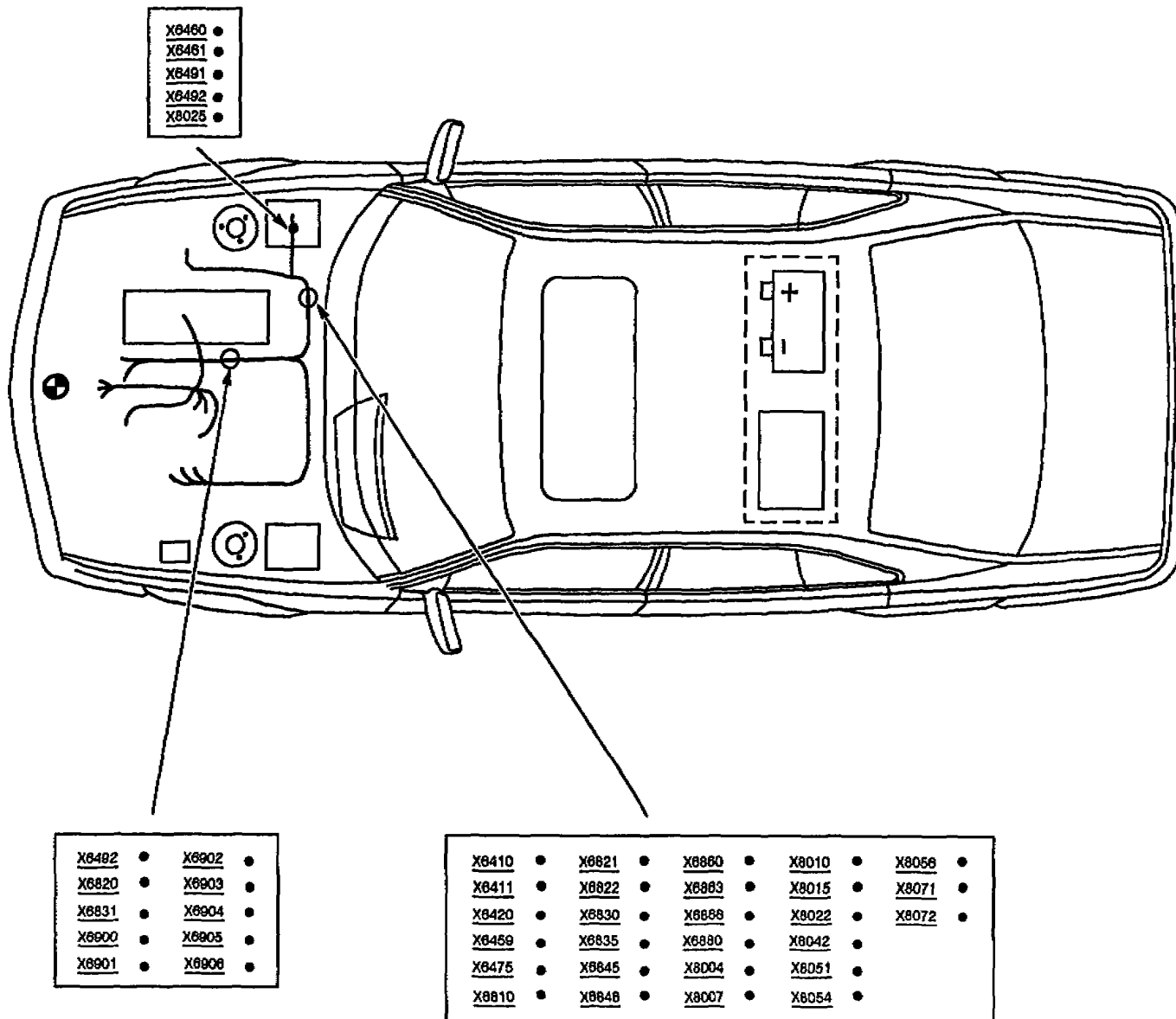


X8820 ●
X6829 ●
X8842 ●
X8905 ●
X8906 ●
X8907 ●
X6908 ●



# SPLICE LOCATION VIEWS

## M50 ENGINE HARNESS



BMW  
5



8500.0

FIG. 1

B550001.00

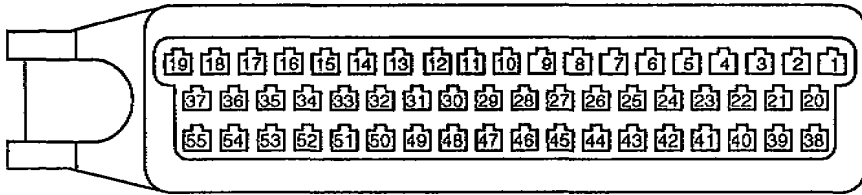


FIG. 2

B350001.00

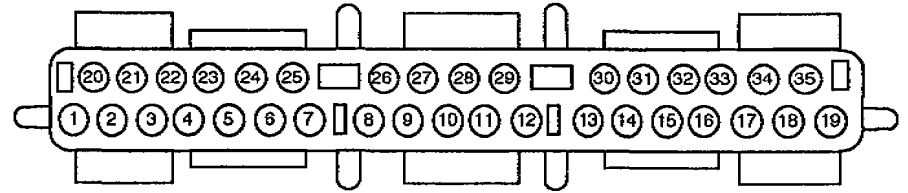


FIG. 3

B350002.00

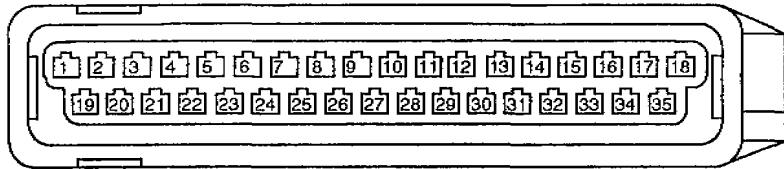
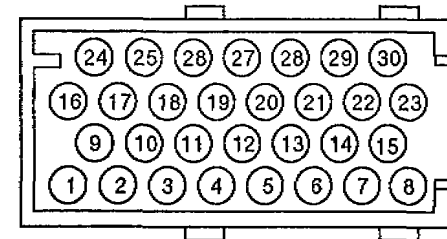


FIG. 4

B300001.00



# CONNECTOR VIEWS

FIG. 1

B260002.00

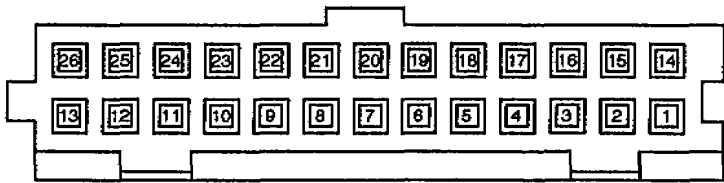


FIG. 2

B180002.00

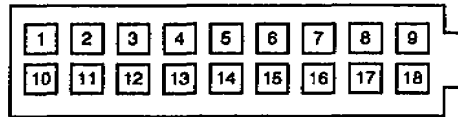


FIG. 3

B210001.00

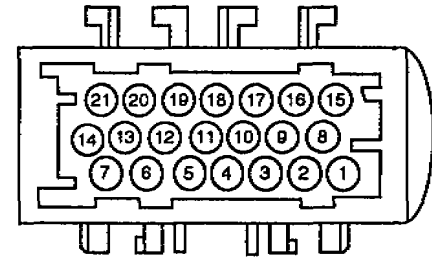


FIG. 4

B240001.00

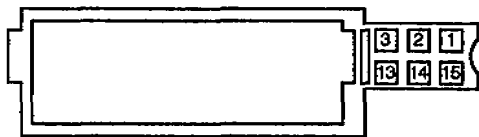


FIG. 5

B080003.00

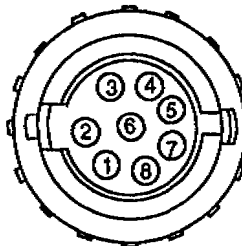


FIG. 6

B040020.01

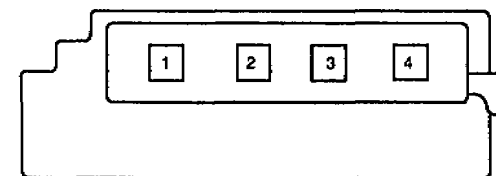




FIG. 1

B120002.02

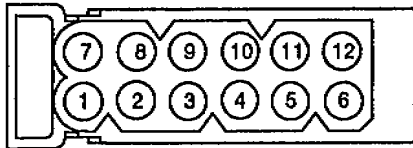


FIG. 2

B250003.00

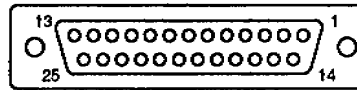


FIG. 3

B090001.00

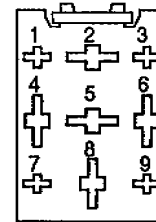


FIG. 4

B050005.00

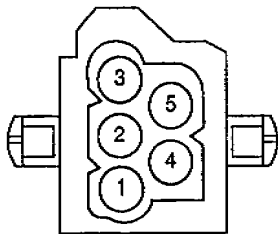


FIG. 5

B030006.00

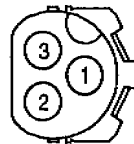
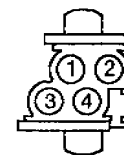


FIG. 6

B040003.00





# CONNECTOR VIEWS

FIG. 1

B060002.00

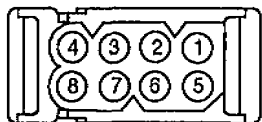


FIG. 2

B050006.00

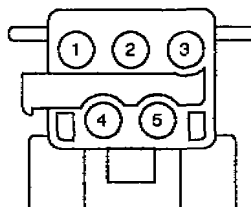


FIG. 3

B030001.00

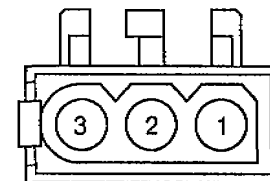


FIG. 4

B250001.00

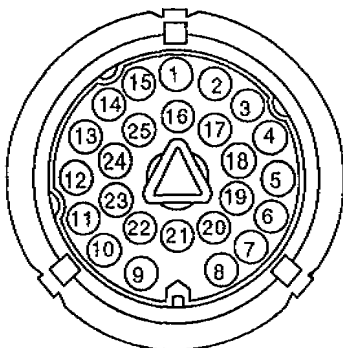


FIG. 5

B030015.10



FIG. 6

B040006.03

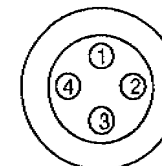


FIG. 1

B060017.00

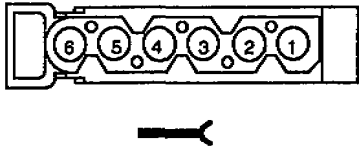


FIG. 2

B170001.00

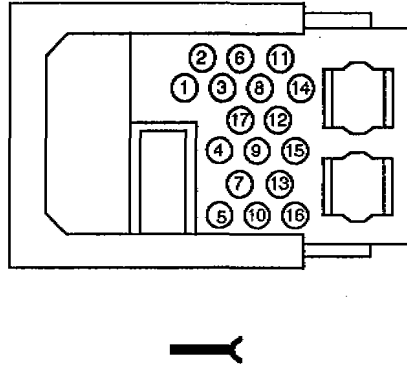


FIG. 3

B030004.04



FIG. 4

B080006.00

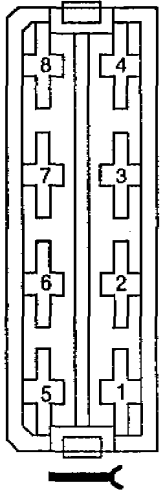


FIG. 5

B030012.00

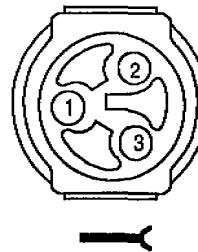


FIG. 6

B200003.01

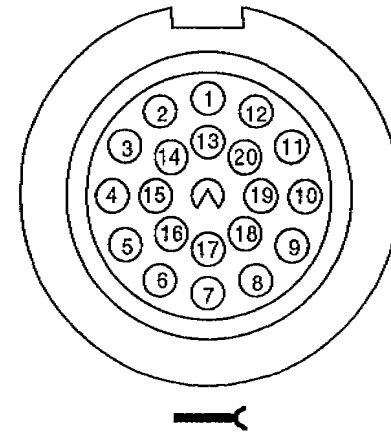


FIG. 1

B030022.00

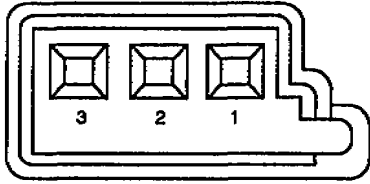


FIG. 2

B030003.04

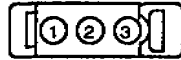


FIG. 3

B060013.00

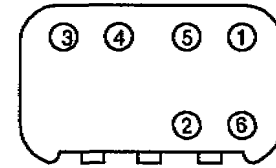


FIG. 4

B060002.00

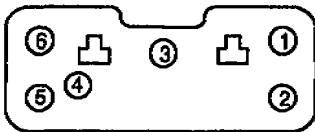


FIG. 5

B060002.00

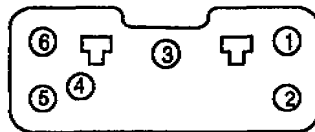


FIG. 6

B120006.00

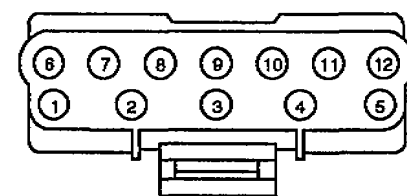


FIG. 1

B030023.00

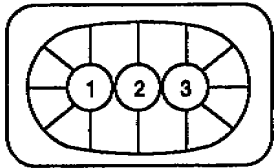


FIG. 2

B050003.00

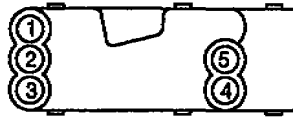


FIG. 3

B040004.00



FIG. 4

B120004.01

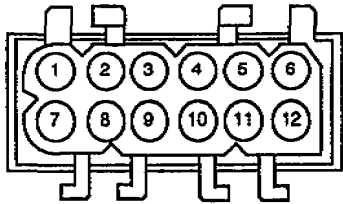


FIG. 5

B040002.00

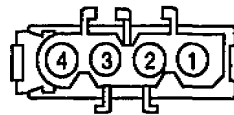


FIG. 6

B120008.00

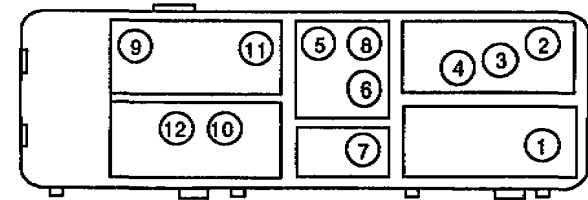


FIG. 1

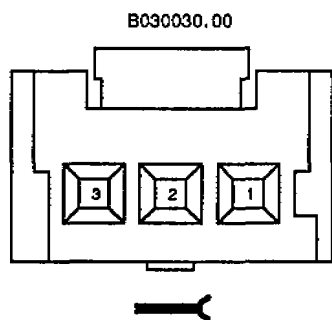


FIG. 2

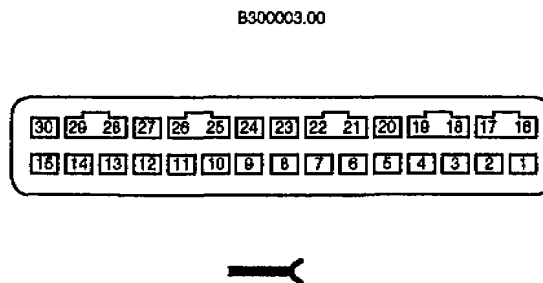


FIG. 3

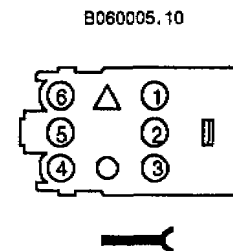


FIG. 4

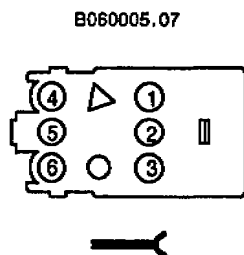


FIG. 5

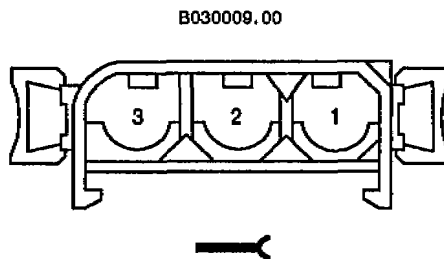


FIG. 6

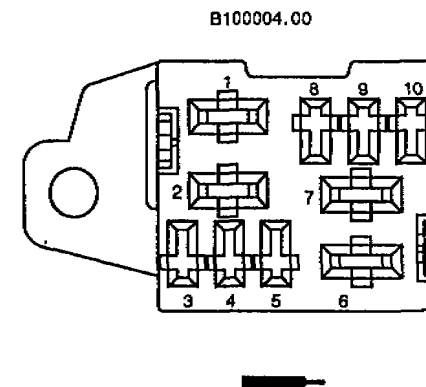


FIG. 1

B210002.00

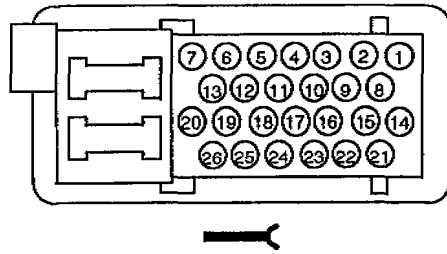


FIG. 2

B120011.00

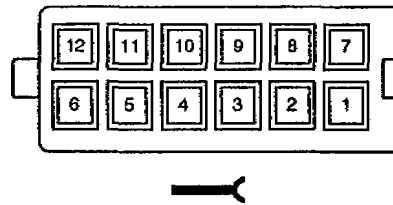


FIG. 3

B120011.00

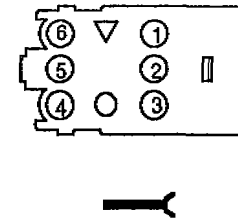


FIG. 4

B200001.00

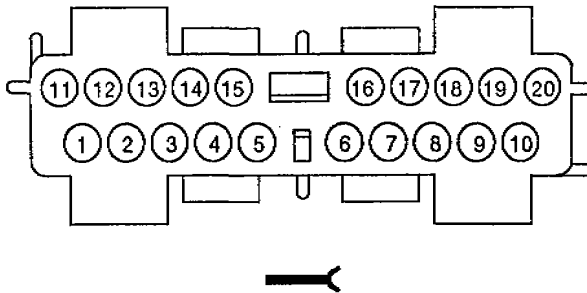


FIG. 5

B030015.08

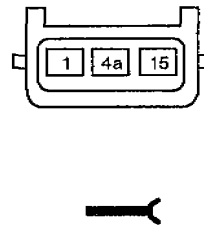
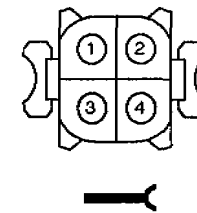


FIG. 6

B040010.00





# CONNECTOR VIEWS

FIG. 1

B100008.00

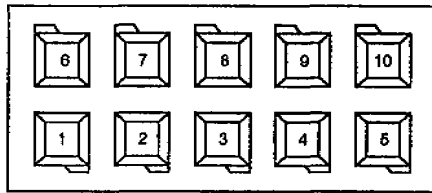


FIG. 2

B060023.00

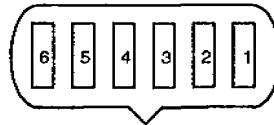


FIG. 3

B050002.00

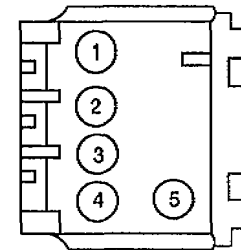


FIG. 4

B060043.00

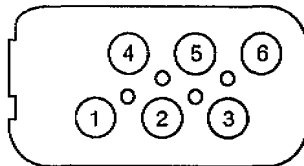


FIG. 5

B030022.00

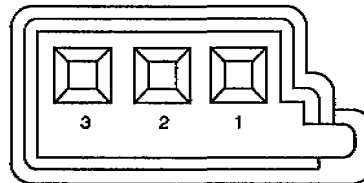


FIG. 6

B040016.00

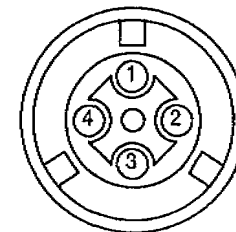




FIG. 1

B060019.00

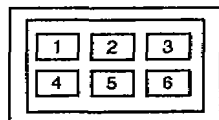


FIG. 2

B060019.03

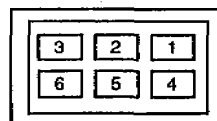


FIG. 3

B120003.01

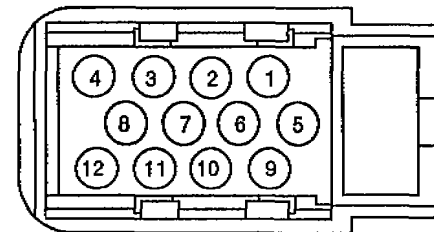


FIG. 4

B260005.00

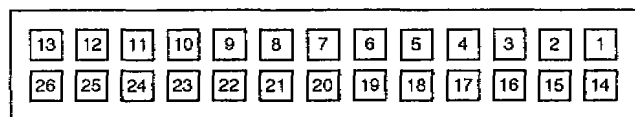
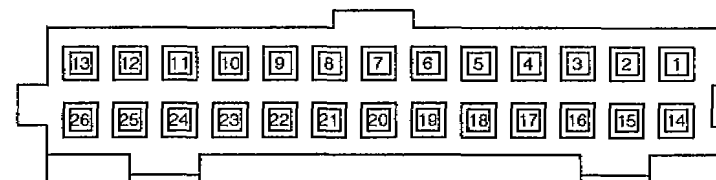


FIG. 5

B260002.00





# CONNECTOR VIEWS

FIG. 1

B160001.00

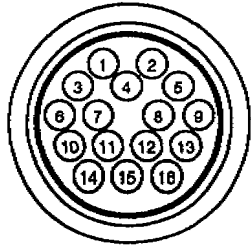


FIG. 2

B080001.00

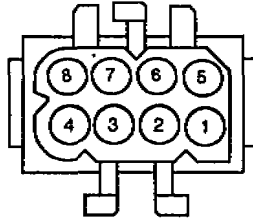


FIG. 3

B180000.00

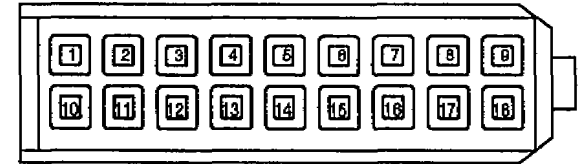


FIG. 4

B070005.00

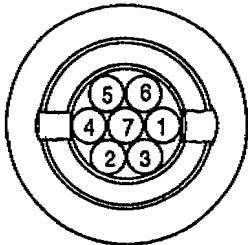


FIG. 5

B040018.01

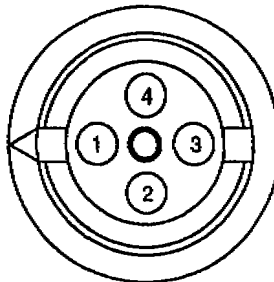
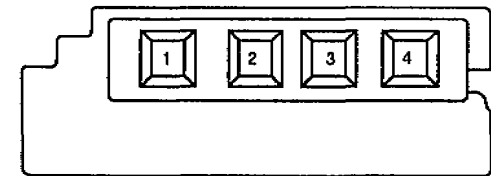


FIG. 6

B040020.00





# CONNECTOR VIEWS

FIG. 1

B880001.00

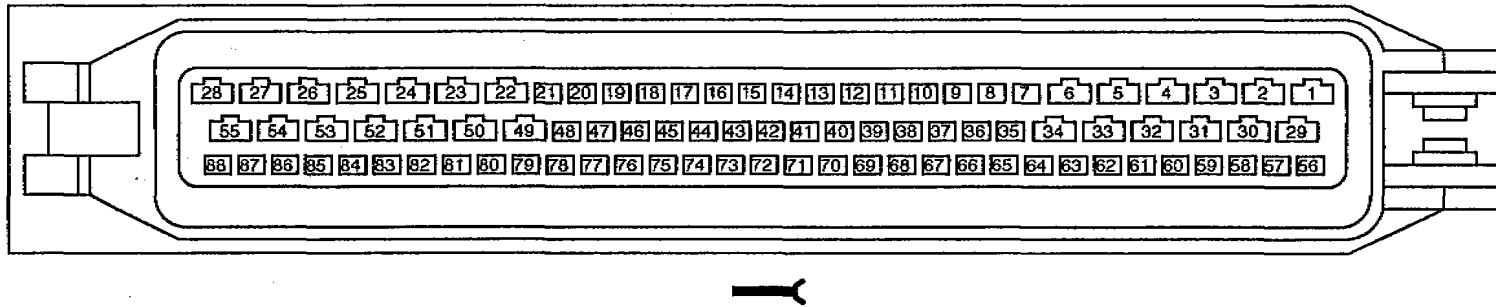


FIG. 2

B030042.00

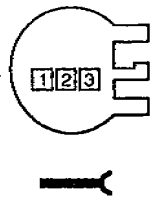


FIG. 3

B150008.00

