

**93/94**  
**BMW 740i/L/750iL (E32)**  
**Electrical**  
**Troubleshooting**  
**Manual**  
**Vehicles Produced 9/92 - 7/94**

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The purpose of this manual is to provide information to aid in electrical troubleshooting. It consists of system block diagrams, schematics, component location information, harness routing views and connector views.

The manual is divided into sections called cells. In each cell electrical components that work together are shown together on one or more schematics. At the top of the page is the fuse (positive) that powers the circuit. The flow of current is shown through all wires, connectors, switches, and motors to ground (negative) at the bottom of the page.

Within the schematic all switches and sensors are shown "at rest," as though the Ignition Switch were off. For identification, component names are underlined and placed next to or above each component. Notes are included that describe how or when switches and other components work.

The Power Distribution schematics show the current feed through all the connections from the Battery and Alternator to each fuse and the Ignition and

Light Switches. If a Power Distribution schematic is combined with any other circuit schematic, a complete picture is made of how that circuit works. The Ground Distribution schematics show how several circuits are connected to common grounds.

All wiring between components is shown exactly as it exists in the vehicles; however, the wiring is not drawn to scale. To aid in understanding electrical operation, wiring inside complicated components has been simplified. Further information regarding schematic symbols and references can be found in cell 0140 (Symbols).

The Central Body Electronics System incorporates the use of a single module that controls many apparently unrelated functions. For instance, the Sunroof and Windshield Wipers are controlled by the same module. However, only the portion of the module that controls the Sunroof will appear in the Sunroof schematics.



## INTRODUCTION

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Component Identification Information begins in cell 7000 and consists of the Component Location List, Component Location Photographs, and Harness Connector Faces. The Component Location List helps you find where the parts of the circuit are in the vehicle. A brief description of the location is given along with a reference to the photograph that shows the component and its connecting wires. The Harness Connector Faces show the cavity or terminal locations of all connectors having three or more pins. Harness Connector Faces help you locate test points. The drawings show the connector faces you see after the harness connector has been disconnected from a component.



## TROUBLESHOOTING PROCEDURES

Diagnostic procedures for many of the circuits in this manual are included with the schematics. These procedures are based on a logical problem-solving procedure. The steps listed below are provided for those circuits that do not include diagnostic procedures. Following these steps will enable you to make a quick diagnosis of the problem.

### 1. Verify the Problem

Operate the problem circuit to check the accuracy of the complaint. Note the symptoms of the inoperative circuit.

### 2. Analyze the Problem

Refer to the schematic of the problem circuit in the ETM. Determine how the circuit is supposed to work by tracing the current path(s) from the power feed through the circuit components to ground. Then, based on the symptoms you noted in step 1 and your understanding of circuit operation, identify one or more possible causes of the problem.

### 3. Isolate the Problem

Make circuit tests to prove or disprove the preliminary diagnosis made in step 2. Keep in mind that a logical, simple procedure is the key to efficient troubleshooting. Test for the most likely cause of failure first. Try to make tests at points which are easily accessible.

### 4. Repair the Problem

Once the specific problem is identified, make the repair using the proper tools and safe procedures.

### 5. Check the Problem

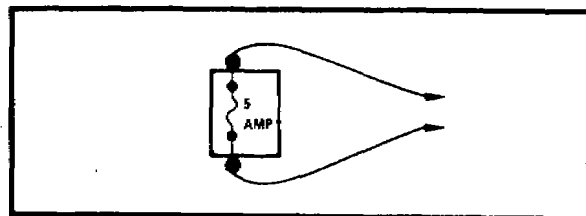
Operate the circuit to check for satisfactory circuit operation. Good repair practice calls for rechecking all circuits you have worked on.

## TROUBLESHOOTING TOOLS

Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a voltmeter and/or ohmmeter. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit under test. Disconnect the car battery when using an ohmmeter because the battery voltage will cause the ohmmeter to give false readings. Also, do not use an ohmmeter on solid state components. The voltage that the ohmmeter applies to the circuit could damage these components.

### Fused Jumper Wire

A jumper wire is made up of an in-line fuse holder connected to a set of test leads. It should have a five ampere fuse. Use it for bypassing open circuits. Never use a jumper wire across any load (motors, etc.). This direct battery short will blow the fuse.



Fused Jumper Wire

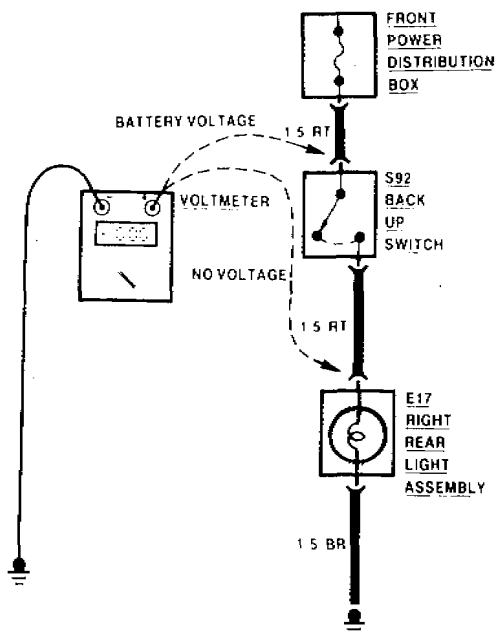


## TROUBLESHOOTING TESTS

### Voltage Test

This test measures voltage in a circuit. By taking measurements at several points (terminals or connectors) along the circuit, you can isolate the problem.

To take a voltage measurement, connect the negative lead of the voltmeter to the battery's negative terminal or other known good ground. Then connect the positive lead of the voltmeter to the point you want to test. The voltmeter will measure the voltage present at that point in the circuit.

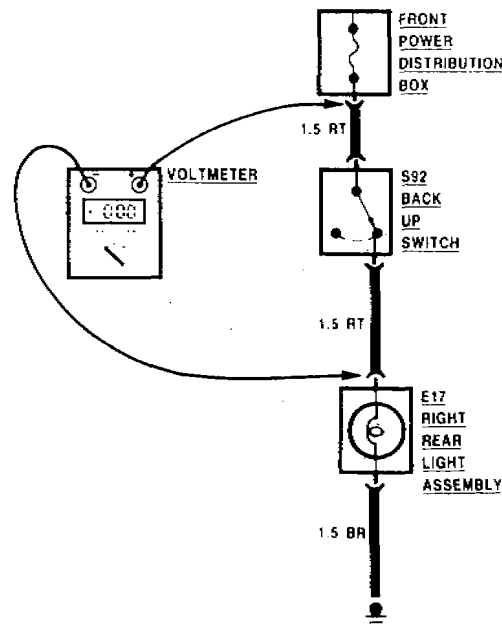


Voltage Test

### Voltage Drop Test

Wires, connectors, and switches are designed to conduct current with a minimum loss of voltage. A voltage drop of more than one voltage indicates a problem.

To test for voltage drop, connect the voltmeter leads to connectors at either end of the circuit's suspected problem area. The positive lead should be connected to the connector closest to the power source. The voltmeter will show the voltage drop between these two points. Any switch in the circuit should be closed during this test.

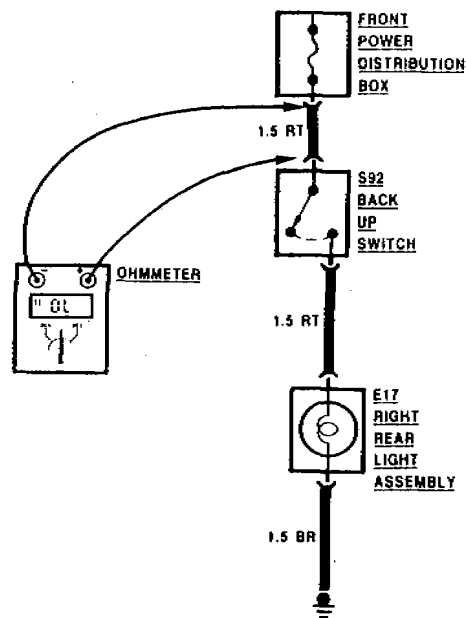


Voltage Drop Test



## Continuity Test

To perform a continuity test, first disconnect the car battery. Then, while holding the leads together, adjust the ohmmeter to read zero. Connect the ohmmeter leads to connector or terminals at either end of the circuit's suspected problem area. The ohmmeter will show the resistance across that part of the circuit. This test can also be performed with a self-powered test light.

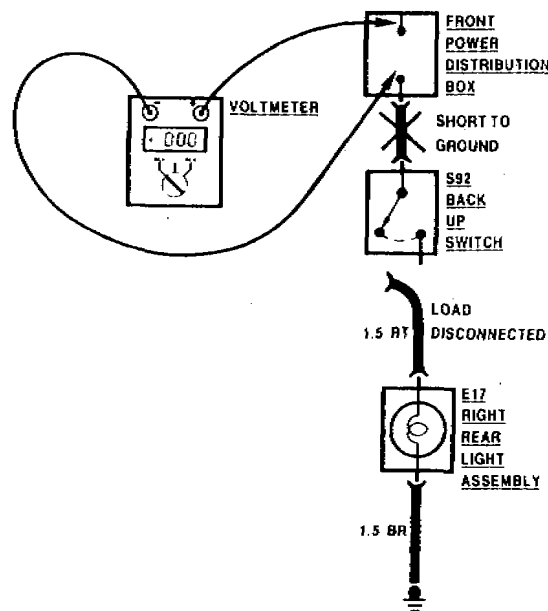


Continuity Test

## Short Test Using voltmeter

To locate a wiring short to ground, remove the blown fuse and disconnect the load. Connect the voltmeter leads to the fuse terminals. The positive lead should be connected to the terminal closest to the power source.

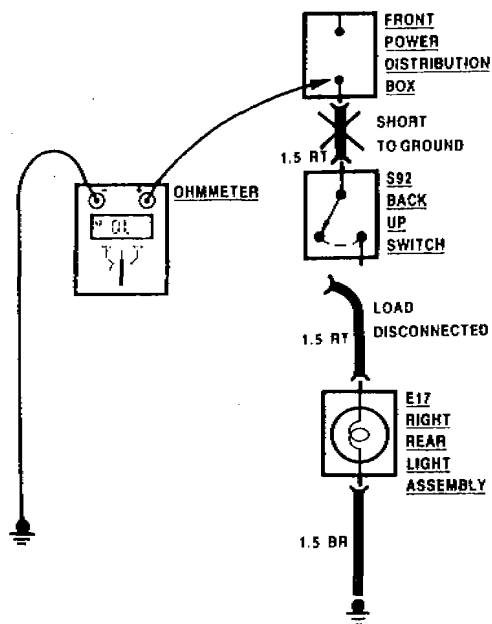
Starting near the FRONT POWER DISTRIBUTION BOX, move the wire harness back and forth and watch the voltmeter reading. If the voltmeter registers a reading, there is a short to ground in the wiring. Somewhere in the area of the harness being moved, the wire insulation is worn away and the circuit is grounding.



Short Test Using Voltmeter

**Short Test Using Ohmmeter**

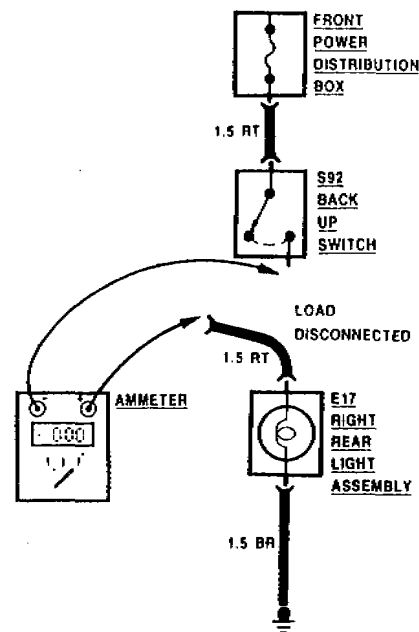
Disconnect the battery. While holding the leads together, adjust the ohmmeter to read zero. Remove the blown fuse and disconnect the load. Connect one lead of the ohmmeter to the fuse terminal that is closest to the load. Connect the other lead to a known good ground. Starting near the FRONT POWER DISTRIBUTION BOX, move the wire harness back and forth and watch the ohmmeter reading. Low or no resistance indicates a short to ground in the wiring. Infinitely high resistance indicates no short.



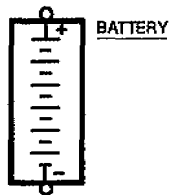
**Short Test Using Ohmmeter**

**Current Test Using Ammeter**

To measure the current, connect the ammeter leads to the connector or terminals in series with the circuit. The ammeter will show the current through the circuit.



**Current Test Using Ammeter**



BATTERY



FUSE



CIRCUIT  
BREAKER



VARIABLE RESISTANCE  
SENSOR  
VARIABLE CONTACT IS MOVED  
BY AN EXTERNAL FORCE



VARIABLE RESISTOR  
RESISTANCE IS CHANGED  
BY TEMPERATURE OR  
PRESSURE



DIODE  
CURRENT CAN FLOW ONLY  
IN DIRECTION OF ARROW



ZENER DIODE  
TO REGULATE VOLTAGE



LIGHT  
EMITTING  
DIODE



LIGHT



BIFILAMENT  
LIGHT



PERMANENT  
MAGNET  
MOTOR  
ONE SPEED



PERMANENT  
MAGNET  
MOTOR  
TWO SPEEDS



HEATING  
ELEMENT



LOUDSPEAKER  
OR HORN



COIL OR  
SOLENOID



SOLENOID  
CONTROLLED  
VALVE OR  
CLUTCH  
SOLENOID

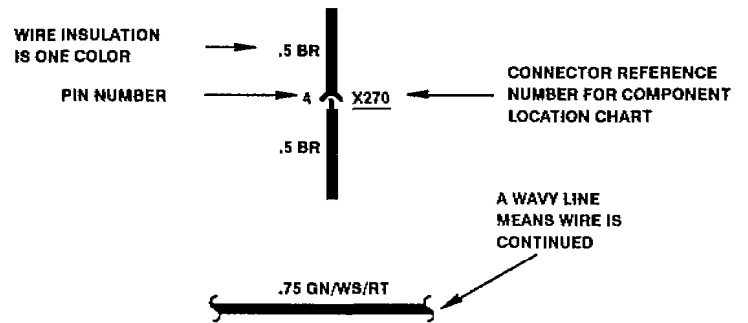
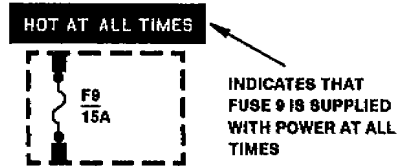
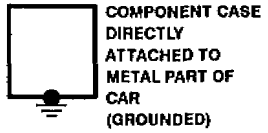
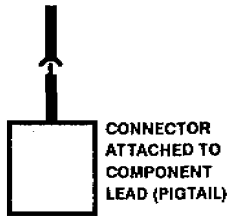
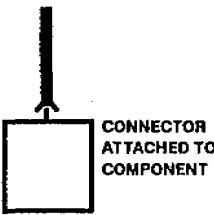
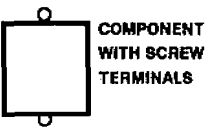


TRANSISTORIZED  
SWITCH

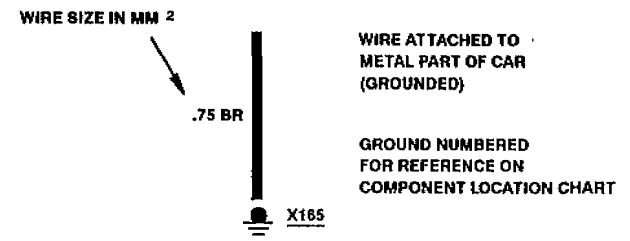
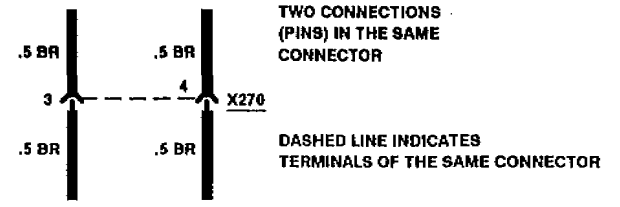


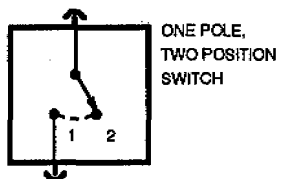
VEHICLE  
SPEED  
SENSOR

**BMW**  
**7** **SYMBOLS**

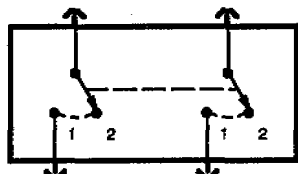


1. FIRST COLOR IS THE WIRE INSULATION.
2. SECOND COLOR IS THE "TRACER" OR "STRIPE" COLOR.
3. THIRD COLOR IS THE "DOTS" COLOR

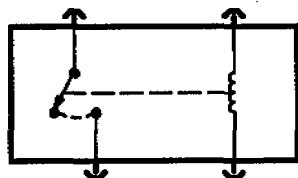




ONE POLE,  
TWO POSITION  
SWITCH

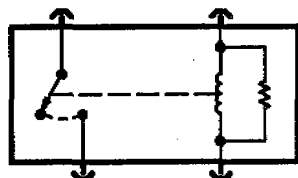


SWITCHES THAT  
MOVE TOGETHER  
DASHED LINE SHOWS  
A MECHANICAL  
CONNECTION  
BETWEEN SWITCHES

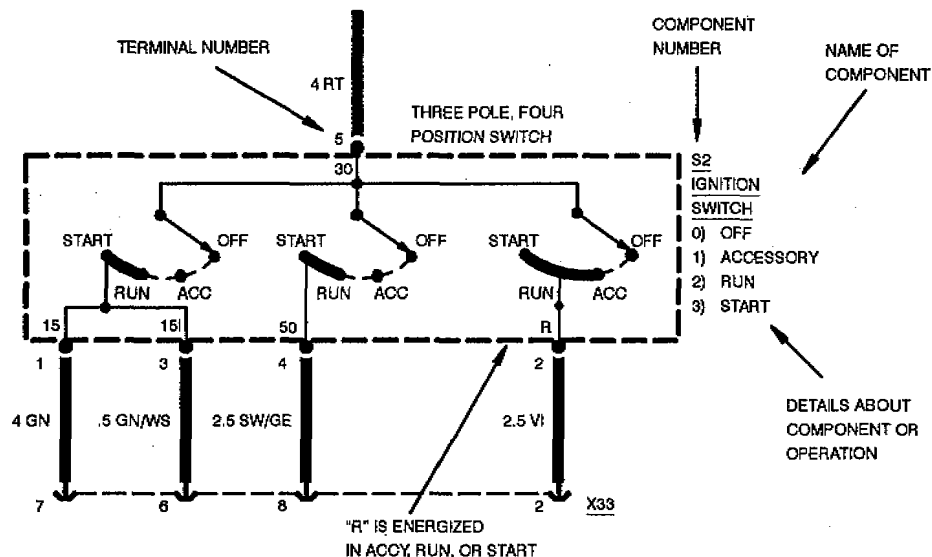


RELAY WITH NO CURRENT  
FLOWING THROUGH COIL

WHEN COIL IS  
ENERGIZED, SWITCH  
IS PULLED CLOSED



RELAY WITH  
RESISTOR ACROSS  
COIL



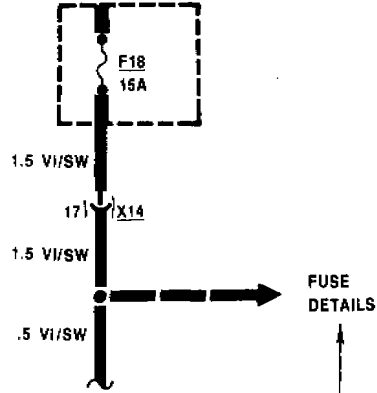
**TERMINAL  
NUMBER**

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

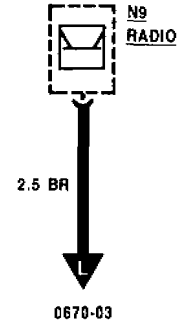
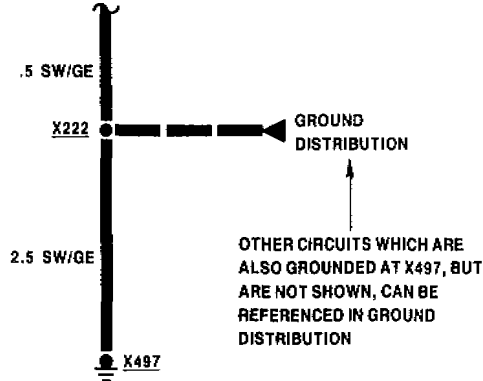
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

**SYMBOLS**

**HOT IN ACC, RUN OR START**

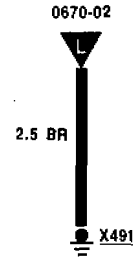


OTHER CIRCUITS WHICH SHARE FUSE 18, BUT ARE NOT SHOWN, CAN BE REFERENCED IN FUSE DETAILS

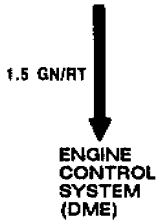


CURRENT PATH IS CONTINUED AS LABELED

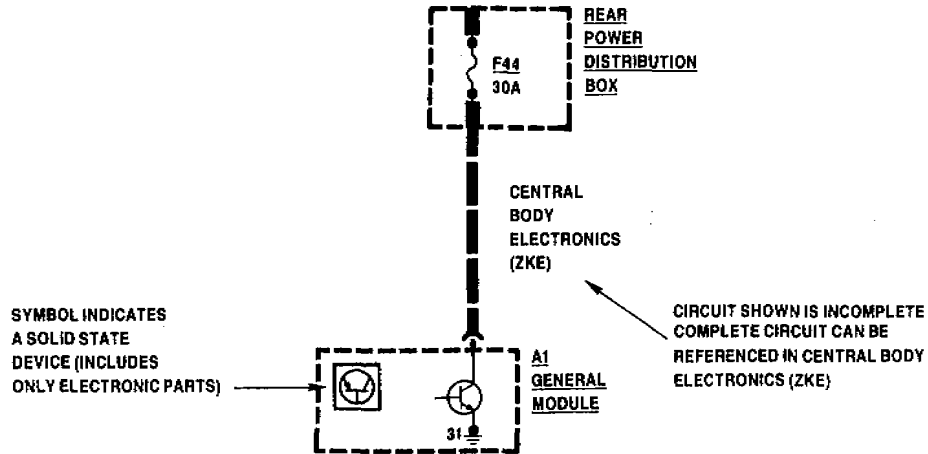
ARROW SHOWS DIRECTION OF CURRENT FLOW AND IS REPEATED WHERE CURRENT PATH CONTINUES



CIRCUIT REFERENCE — A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT



**HOT IN ACC, RUN OR START**

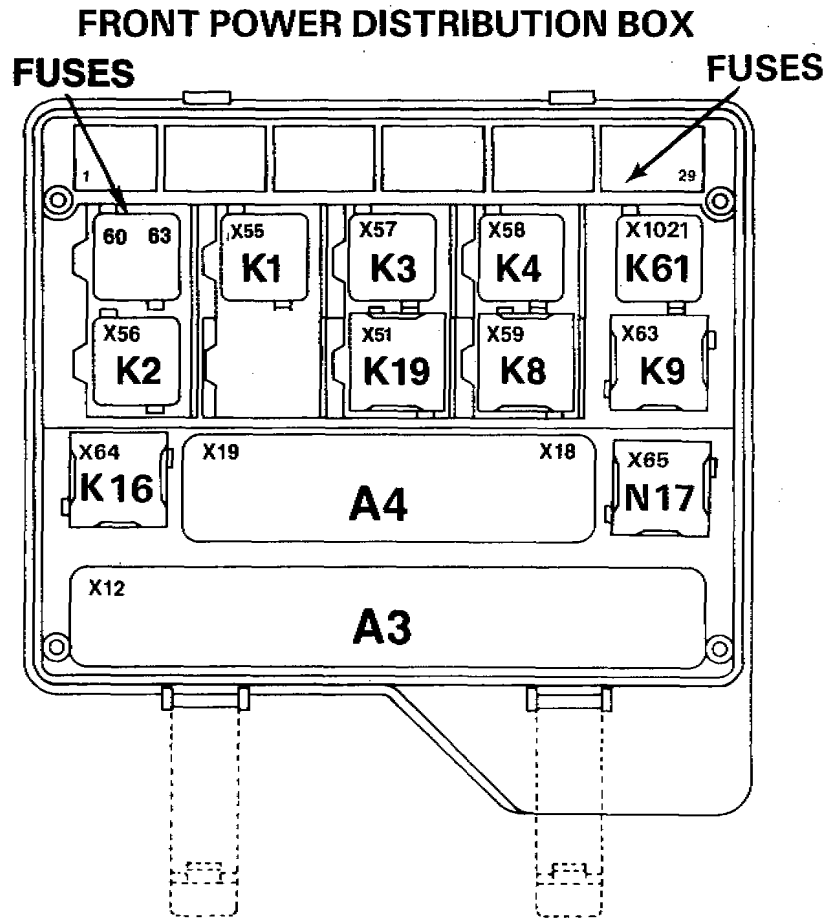






# POWER DISTRIBUTION CHARTS

## FRONT POWER DISTRIBUTION BOX



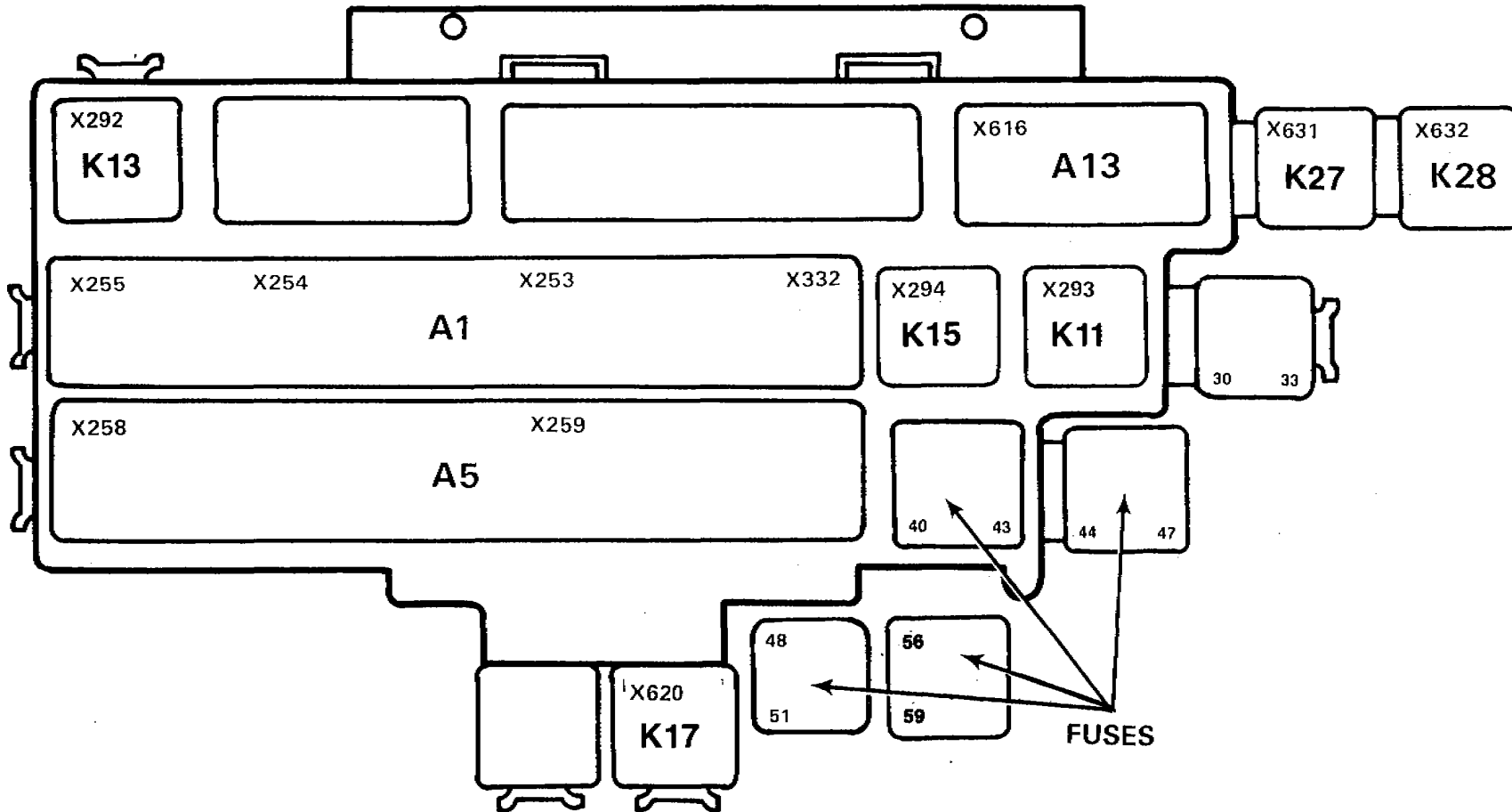
COMPONENTS IN FRONT POWER DISTRIBUTION BOX		
NUMBER	CONNECTOR	DESCRIPTION
A3	X12	LAMP CONTROL MODULE
A4	X18, X19	CHECK CONTROL MODULE
K1	X55	STARTER RELAY (AUTO)
K2	X56	HORN RELAY
K3	X57	UNLOADER RELAY, KLR
K4	X58	BLOWER RELAY
K8	X59	AUXILIARY WATER PUMP RELAY
K9	X63	UNLOADER RELAY, KL15
K16	X64	HAZARD FLASHER RELAY
K19	X51	COMPRESSOR CONTROL RELAY
K61	X1021	UNLOADER RELAY, KL61
N17	X65	CRASH CONTROL MODULE



# POWER DISTRIBUTION CHARTS

## REAR POWER DISTRIBUTION BOX

### REAR POWER DISTRIBUTION BOX





# POWER DISTRIBUTION CHARTS

## REAR POWER DISTRIBUTION BOX

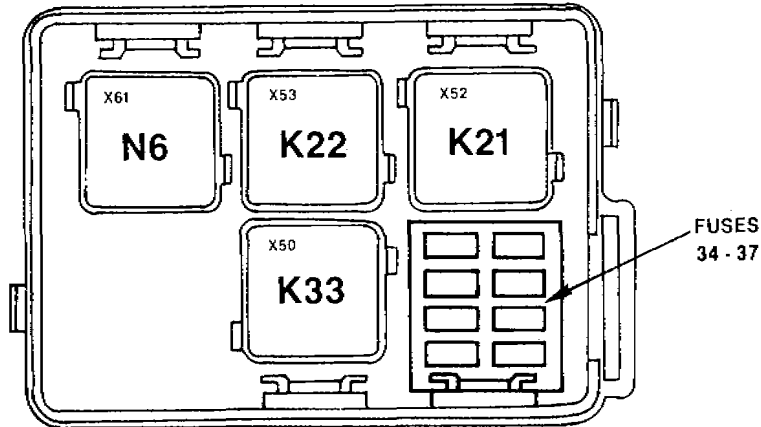
COMPONENTS IN REAR POWER DISTRIBUTION BOX		
NUMBER	CONNECTOR	DESCRIPTION
A1	X253, X254, X255, X332	GENERAL MODULE
A5	X258, X259	RELAY MODULE
A13	X616	REAR HEADREST CONTROL MODULE
K11	X293	WIPER RELAY
K13	X292	REAR DEFOGGER RELAY
K15	X294	ELECTRIC POWER PROTECTION RELAY
K17	X620	REAR SEAT HEATING RELAY
K27	X631	LEFT REAR SEAT HEATING/ POSITION RELAY (WITH POWER REAR SEAT)
K28	X632	RIGHT REAR SEAT HEATING/ POSITION RELAY (WITH POWER REAR SEAT)



# POWER DISTRIBUTION CHARTS

## AUXILIARY RELAY BOX

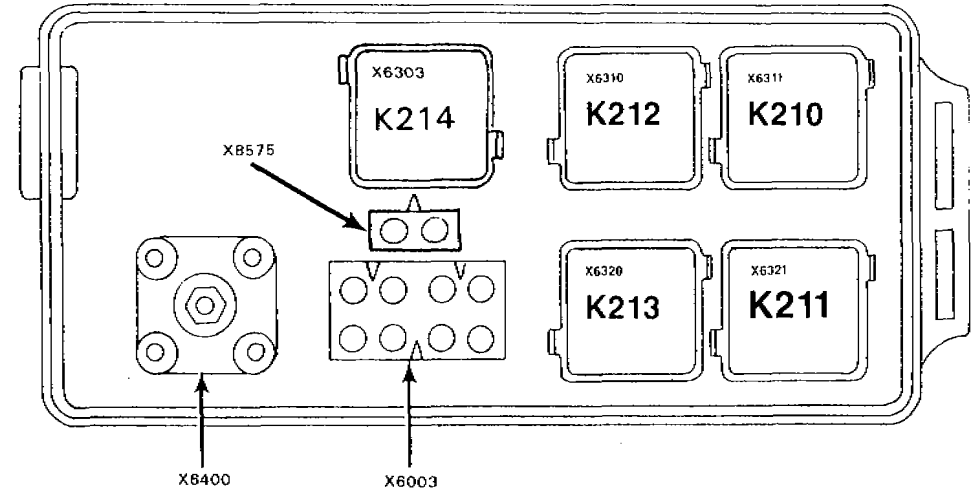
### AUXILIARY RELAY BOX 1



COMPONENTS IN AUXILIARY RELAY BOX		
NUMBER	CONNECTOR	DESCRIPTION
K21	X52	NORMAL SPEED RELAY
K22	X53	HIGH SPEED RELAY
K33	X50	AIR CONDITIONING RELAY (FOR ENGINE CONTROL MODULE)
N6	X61	HEADLIGHT/FOG LIGHT CLEANING SYSTEM MODULE (SRA)

### AUXILIARY RELAY BOX 2

750iL



COMPONENTS IN AUXILIARY RELAY BOX, 750iL ONLY		
NUMBER	CONNECTOR	DESCRIPTION
K210	X6311	CYL. 1-6 FUEL PUMP RELAY
K211	X6321	CYL. 7-12 FUEL PUMP RELAY
K212	X6310	CYL. 1-6 ENGINE CONTROL MODULE RELAY
K213	X6320	CYL. 7-12 ENGINE CONTROL MODULE RELAY
K214	X6303	OXYGEN SENSOR RELAY
—	X6003	CONNECTOR (8 PINS)
X6400	—	B + JUNCTION POST
	X8575	BRAKE LIGHT SWITCH (2 PINS)





# Fuse Chart

## Fuses 1 to 29

		Fuse Numbers																													
		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		7.5A*	7.5A*	15A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	7.5A	7.5A	30A	15A	15A	30A	30A	30A	15A	7.5A	
5126	Central Locking System (ZKE)																				●										
5133	Power Windows (ZKE)																		●		●										
5146	Electric Sun Blind																				●										
5200	Power Seats																										●		●		
5201	Seat Memory									●								●	●	●											
5202	Lumbar Support													●				●													
5203	Heated Seats																	●									●		●		
5205	Automatic Rear Headrest																										●		●		
5410	Sunroof (ZKE)																			●		●									
6100	Central Body Electronics (ZKE)																			●											
6133	Horn									●																					
6161	Windshield Wipers (ZKE)																	●													
6166	Windshield Washer (ZKE)																	●													
6167	Headlight/Fog Light Washer (ZKE)		●	●	●	●														●			●								
6169	Windshield Washer Jet Heaters									●																					●
6200	Instrument Cluster/Check Control	●													●						●		●							●	
6300	Light Switch Details		●	●	●	●																	●								
6301	Lamp Monitor (LKM)	●	●	●	●	●				●	●			●	●																
6312	Turn Hazard Lights		●	●			●								●	●															
6313	Headlights/Fog Lights		●	●	●	●			●	●				●	●																

\* 15A WITH XENON LAMPS



# Fuse Chart

## Fuses 1 to 29

	Fuse Numbers																													
	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	7.5A	7.5A	30A	15A	15A	30A	30A		15A	7.5A	
6314	●			●	●															●										
6320				●	●																									
6322												●									●									
6325	●																													
6330		●		●	●												●	●												
6331		●		●	●										●			●									●			
6413																				●	●	●								
6420																						●								
6430																						●								
6450									●											●	●	●				●				●
6454																									●					●
6500																					●									
6501																					●									
6571	●																●													
6572	●																													
6575																				●		●								
6581															●		●				●									

\* 15A WITH XENON LAMPS



# Fuse Chart

## Fuses 30 to 63

		Fuse Numbers																												
		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	60	61	62	63
		7.5A	7.5A	15A	15A							30A	30A	30A	30A	30A	30A	30A	30A	15A	10A		7.5A				30A	5A	15A	5A
1230	Charging System																													
1240	Start																													
1362	Engine Control System (DME M3.3, 8 CYL. M60)																													●
1367	Engine Control System (DME/EML 1.7)																													
1375	Electronic Throttle Control (EML 1.7)																													
2462	Electronic Transmission Control (EGS: GS 9.20/A5S 560Z) 740i/L																													
2465	Electronic Transmission Control (EGS/EML)																													
2466	Adaptive Transmission Control (AES)																													
3231	Memory Steering Column													●																
3232	Power Steering Column Adjust																													
3234	Supplemental Restraint System (Air Bag)																													
3240	Power Assist Steering (Servotronic)																													
3435	Brake Lining Warning																													
3450	Slip Control (ABS)																													
3452	Slip Control (ABS/ASC+T)																												●	●
3715	Shock Absorber Control (EDC III+)																													
5116	Electronic Mirror																													
5119	Mirror Memory													●		●														
5120	Door Lock Heating (ZKE)	●																												
5124	Soft Close Automatic Trunk Lid		●	●																										





# Fuse Chart

## Fuses 30 to 63

	Fuse Numbers																												
	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	60	61	62	63
	7.5A	7.5A	15A	15A							30A	30A	30A	30A	30A	30A	30A	30A	15A	10A		7.5A				30A	5A	15A	5A
5126 Central Locking System (ZKE)	●	●																											
5133 Power Windows (ZKE)	●	●													●														
5146 Electronic Sun Blind			●																										
5200 Power Seats											●			●															
5201 Seat Memory													●		●														
5202 Lumbar Support																													
5203 Heated Seats											●																		
5205 Automatic Rear Headrest											●																		
5410 Sunroof (ZKE)	●	●													●														
6100 Central Body Electronics (ZKE)	●														●			●											
6133 Horn																													
6161 Windshield Wipers (ZKE)															●														
6166 Windshield Washer (ZKE)															●														
6167 Headlight/Fog Light Washer (ZKE)															●														
6189 Windshield Washer Jet Heaters																													
6200 Instrument Cluster/Check Control				●																									
6300 Light Switch Details																													
6301 Lamp Monitor (LKM)																													
6312 Turn Hazard Lights																													
6313 Headlights/Fog Lights																											●		●



# Fuse Chart

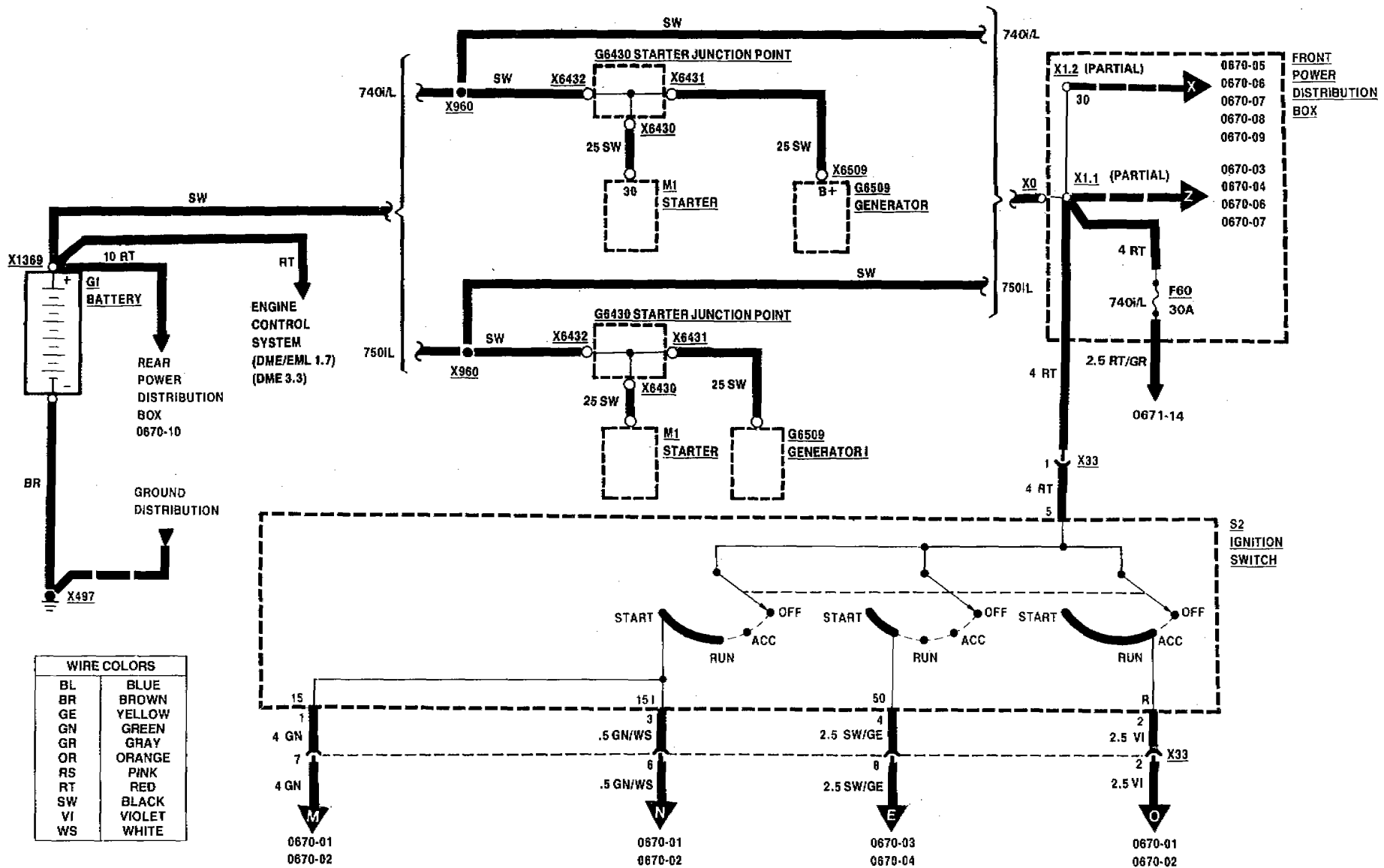
## Fuses 30 to 63

		Fuse Numbers																													
		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	60	61	62	63	
		7.5A	7.5A	15A	15A								30A	30A	30A	30A	30A	30A	30A	15A	10A		7.5A				30A	5A	15A	5A	
<b>6314</b>	Park/Tail/Marker/Underhood Lights																														
<b>6320</b>	License/Trunk Lights				●																										
<b>6322</b>	Back Up Lights																														
<b>6325</b>	Brake Lights																														
<b>6330</b>	Interior Lights (ZKE)	●			●										●																
<b>6331</b>	Glove Box Light/Cigar Lighter/Ashtray/Charging Plug/ Make-Up Mirror Lights				●																										
<b>6413</b>	Park Ventilation																														
<b>6420</b>	Rear Window Defogger/Antenna																		●												
<b>6430</b>	Automatic Air Recirculation Control (RUC)																														
<b>6450</b>	Automatic Heating/AC Control (IHKA)																														
<b>6454</b>	Auxiliary Fan																														
<b>6500</b>	Radio/CD Player (Provisions)												●																		
<b>6501</b>	Cellular Telephone (Provisions)																					●									
<b>6571</b>	Cruise Control (Tempomat)																														
<b>6572</b>	Cruise Control (EML)																														
<b>6575</b>	Antitheft System (Alpine)												●																		
<b>6581</b>	On-Board Computer																														



# POWER DISTRIBUTION

## FRONT POWER DISTRIBUTION BOX

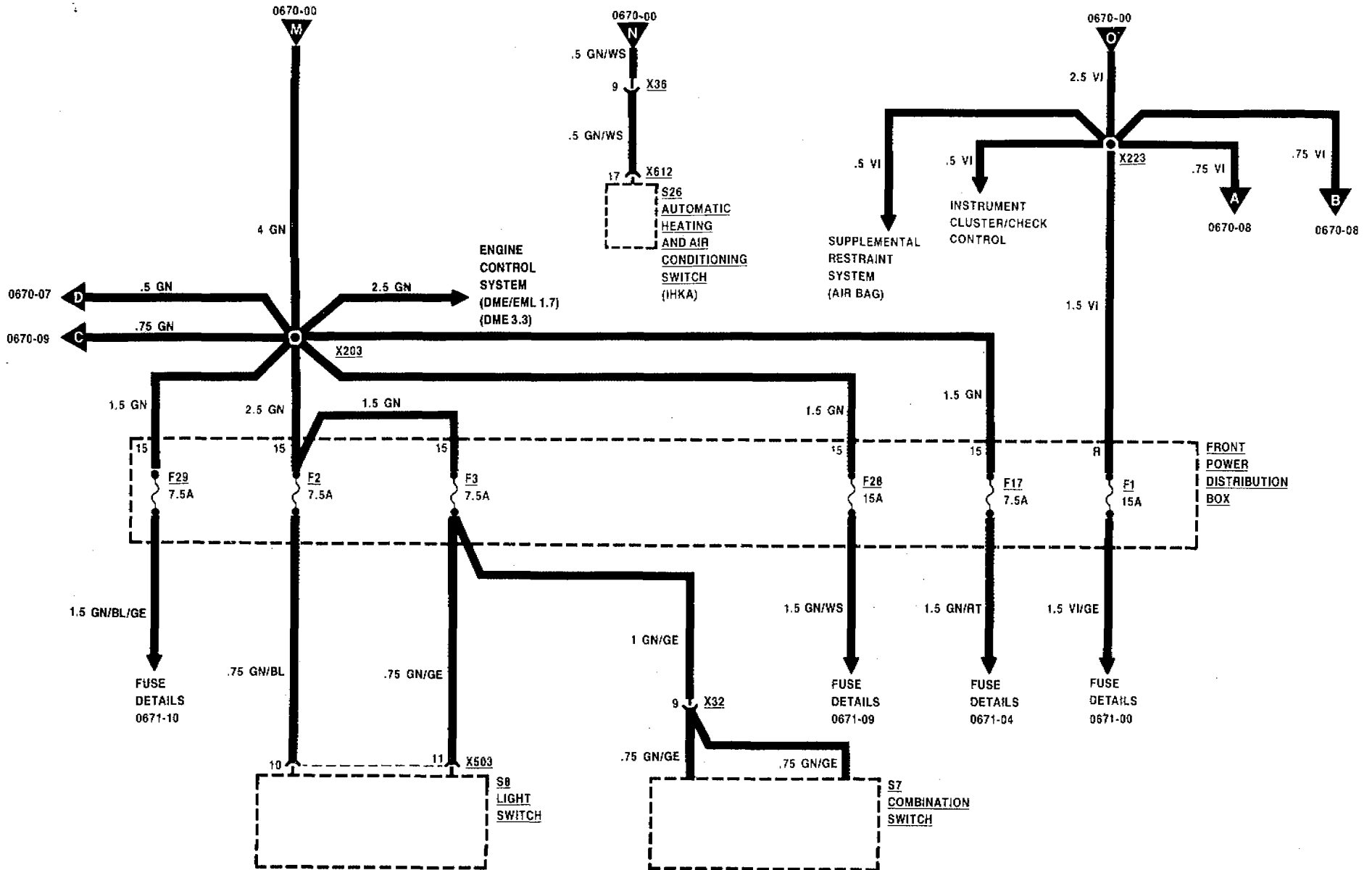




# POWER DISTRIBUTION

## FRONT POWER DISTRIBUTION BOX

U.S.A.



12/93

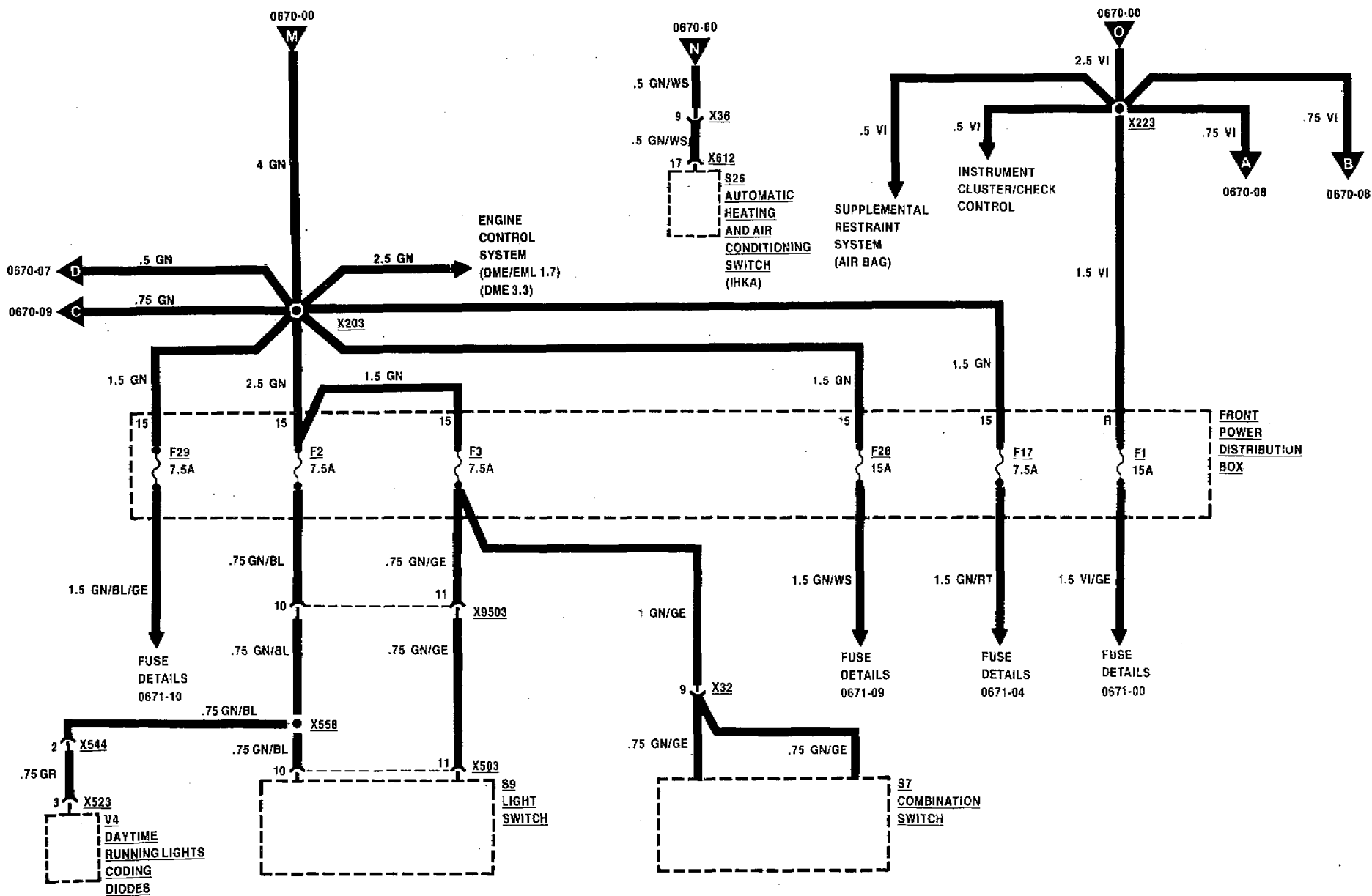
0670-01

93/94



# POWER DISTRIBUTION FRONT POWER DISTRIBUTION BOX

CANADA



12/93

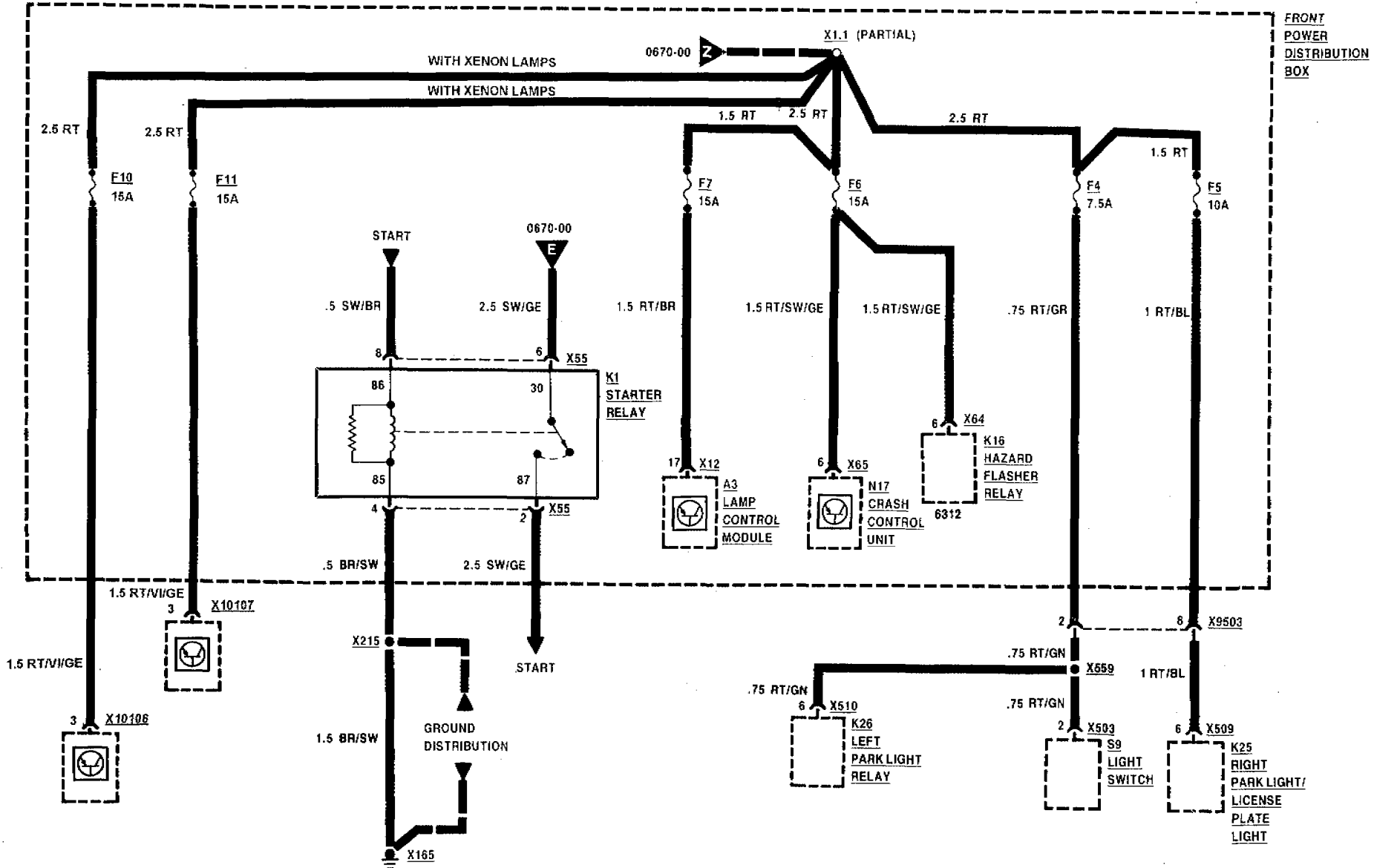
0670-02

93/94



**POWER DISTRIBUTION**  
**FRONT POWER DISTRIBUTION BOX**

**CANADA**



12/93

0670-03

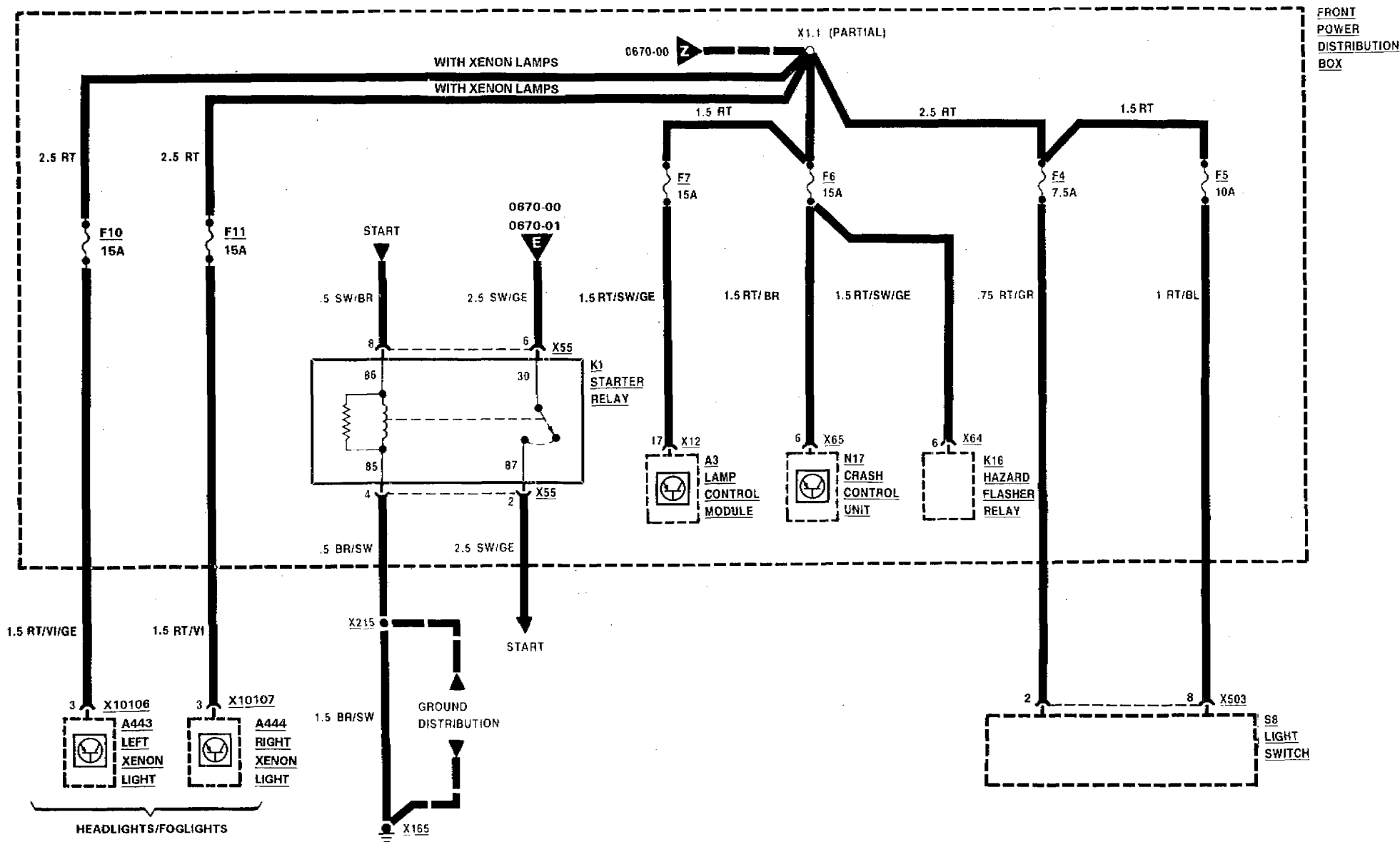
93/94



# POWER DISTRIBUTION

## FRONT POWER DISTRIBUTION BOX

U.S.A.



12/93

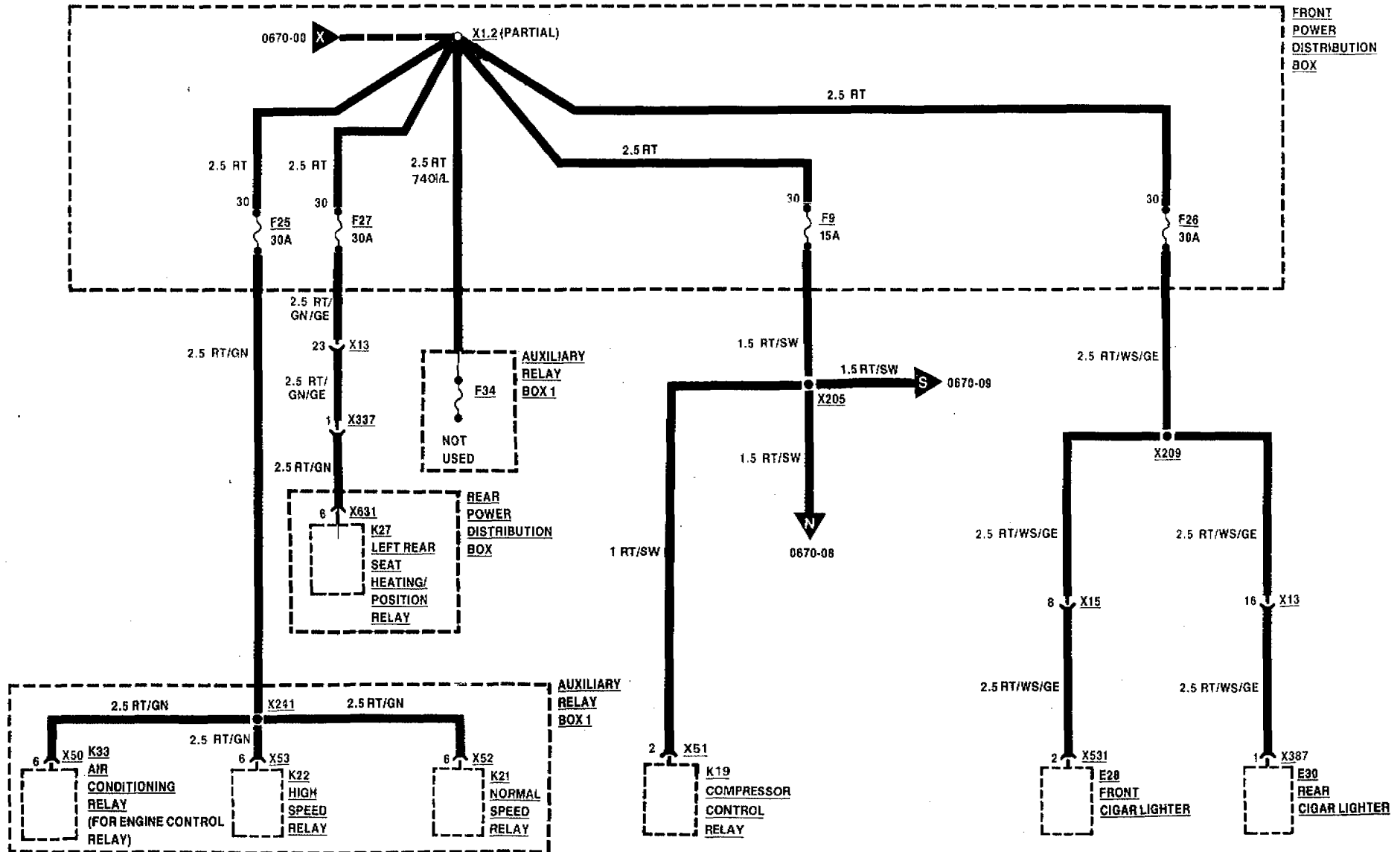
0670-04

93/94



# POWER DISTRIBUTION

## FRONT POWER DISTRIBUTION BOX

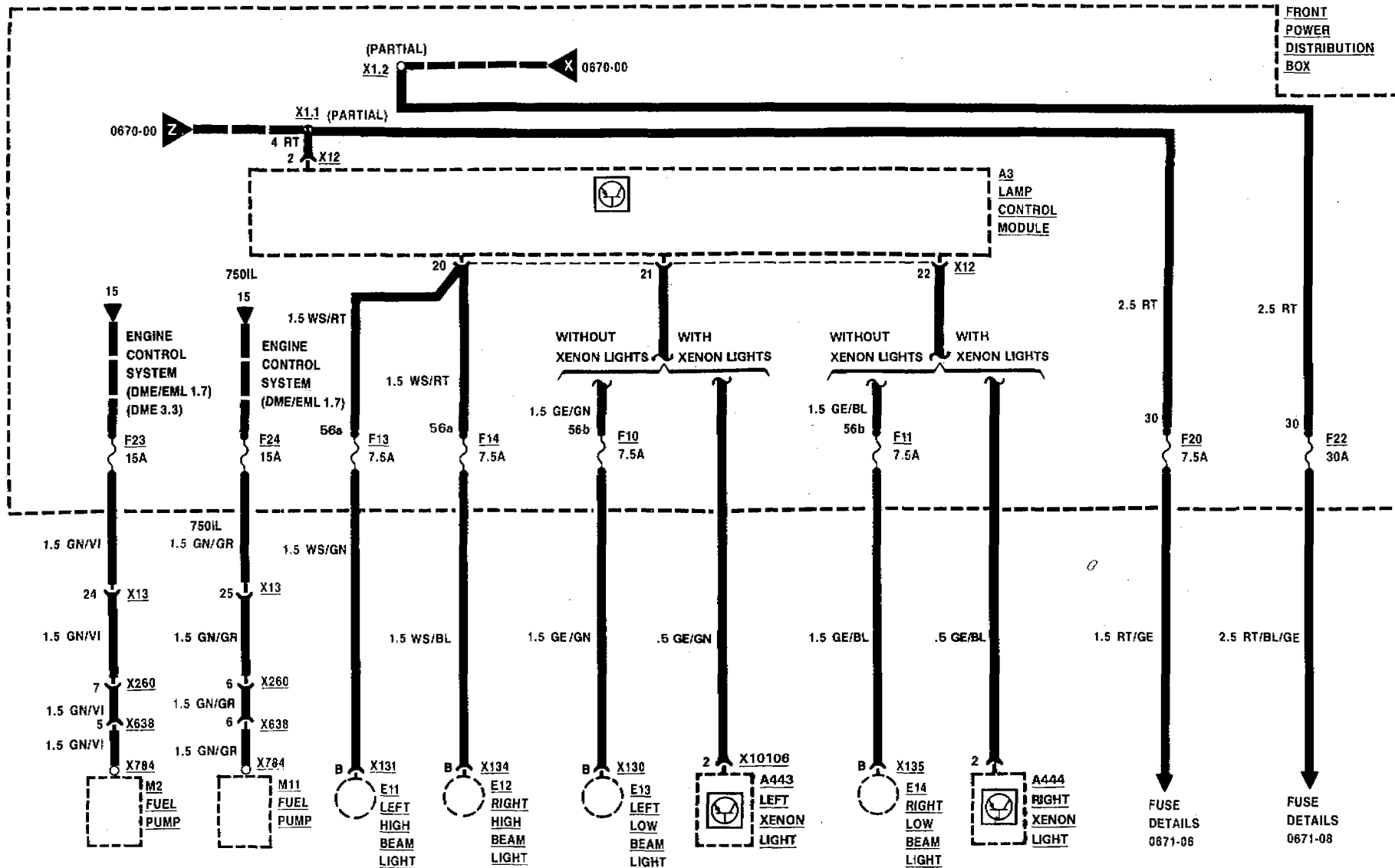






# POWER DISTRIBUTION

## FRONT POWER DISTRIBUTION BOX



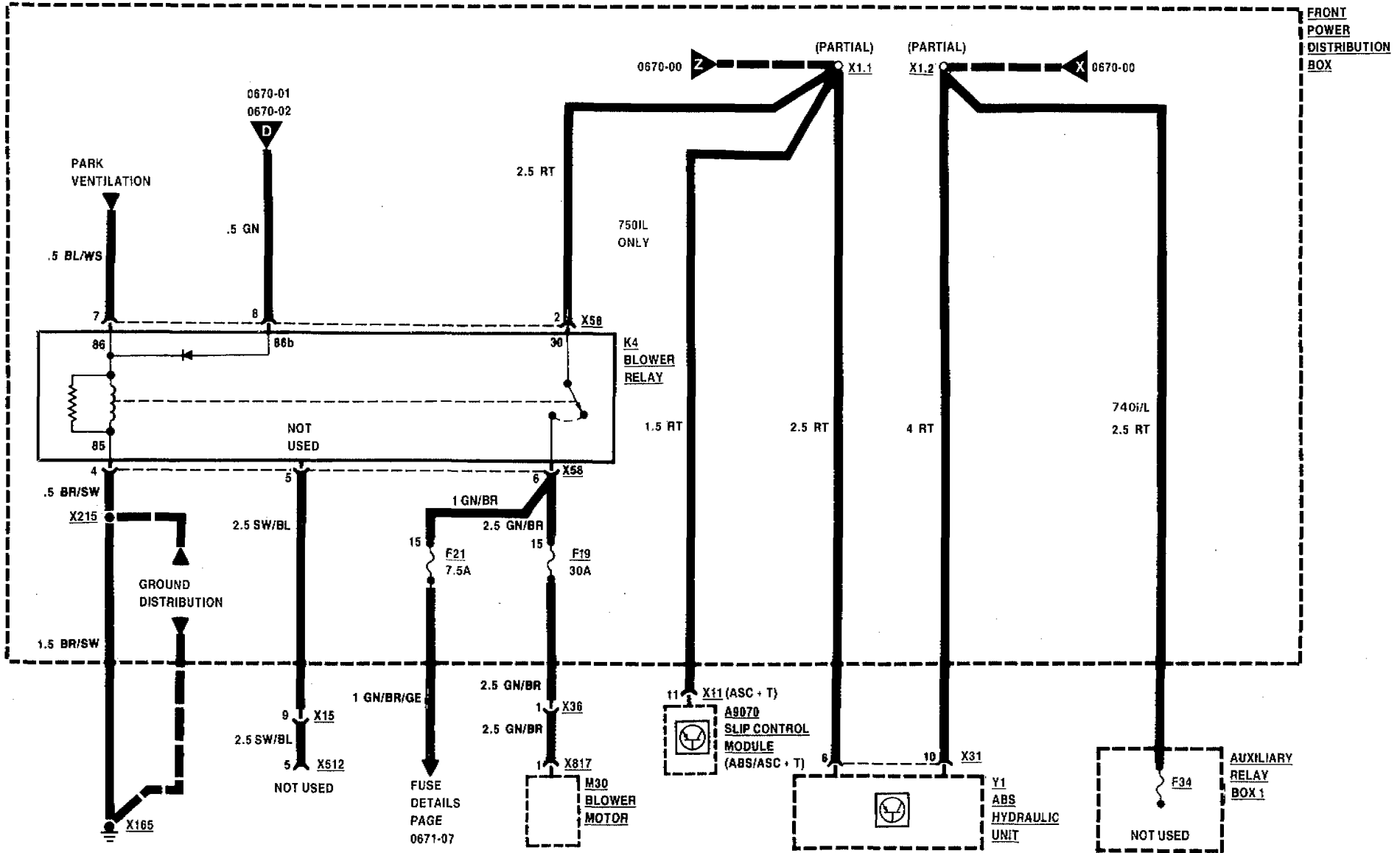
12/93

0670-06

93/94



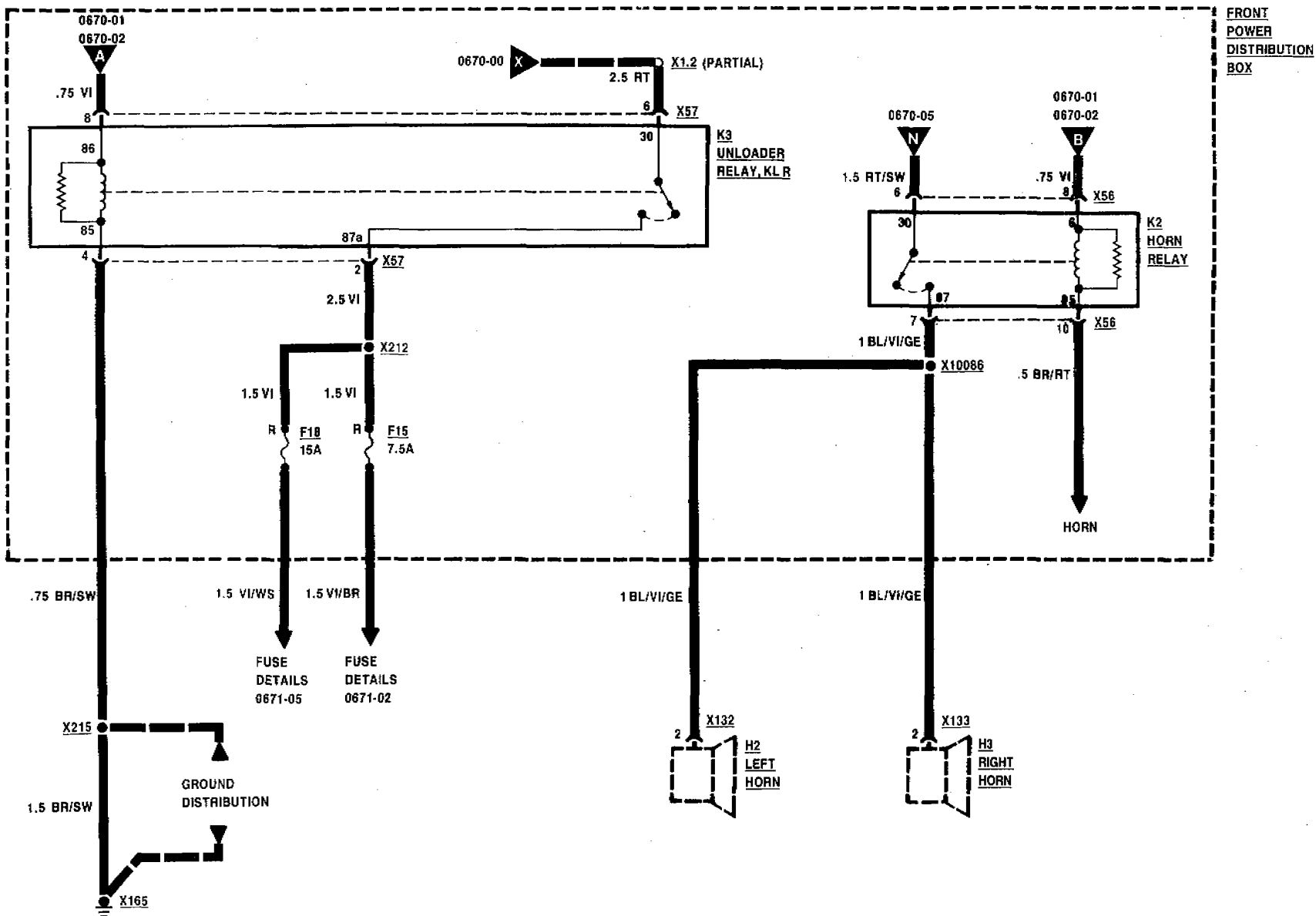
# POWER DISTRIBUTION FRONT POWER DISTRIBUTION BOX





# POWER DISTRIBUTION

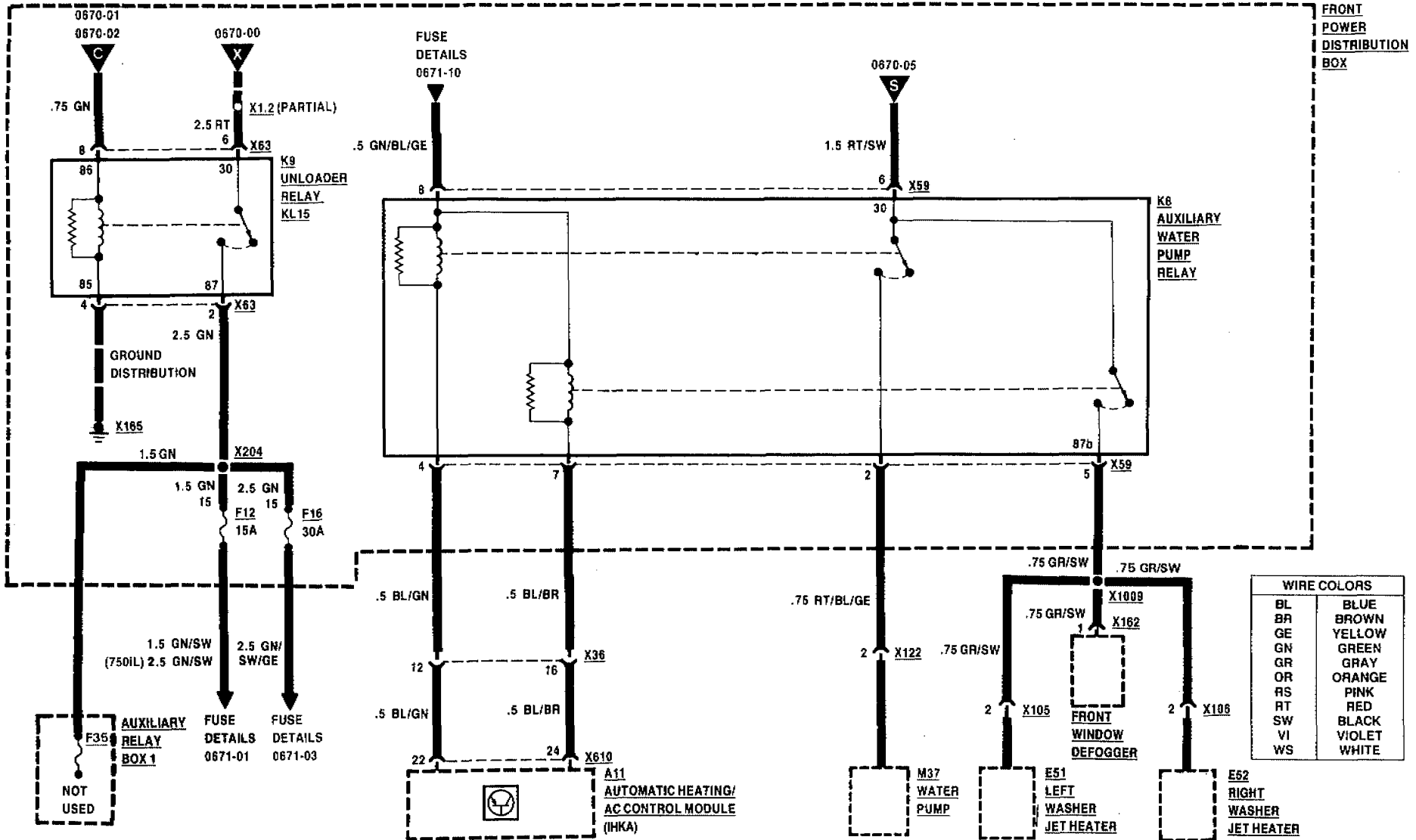
## FRONT POWER DISTRIBUTION BOX



FRONT  
POWER  
DISTRIBUTION  
BOX



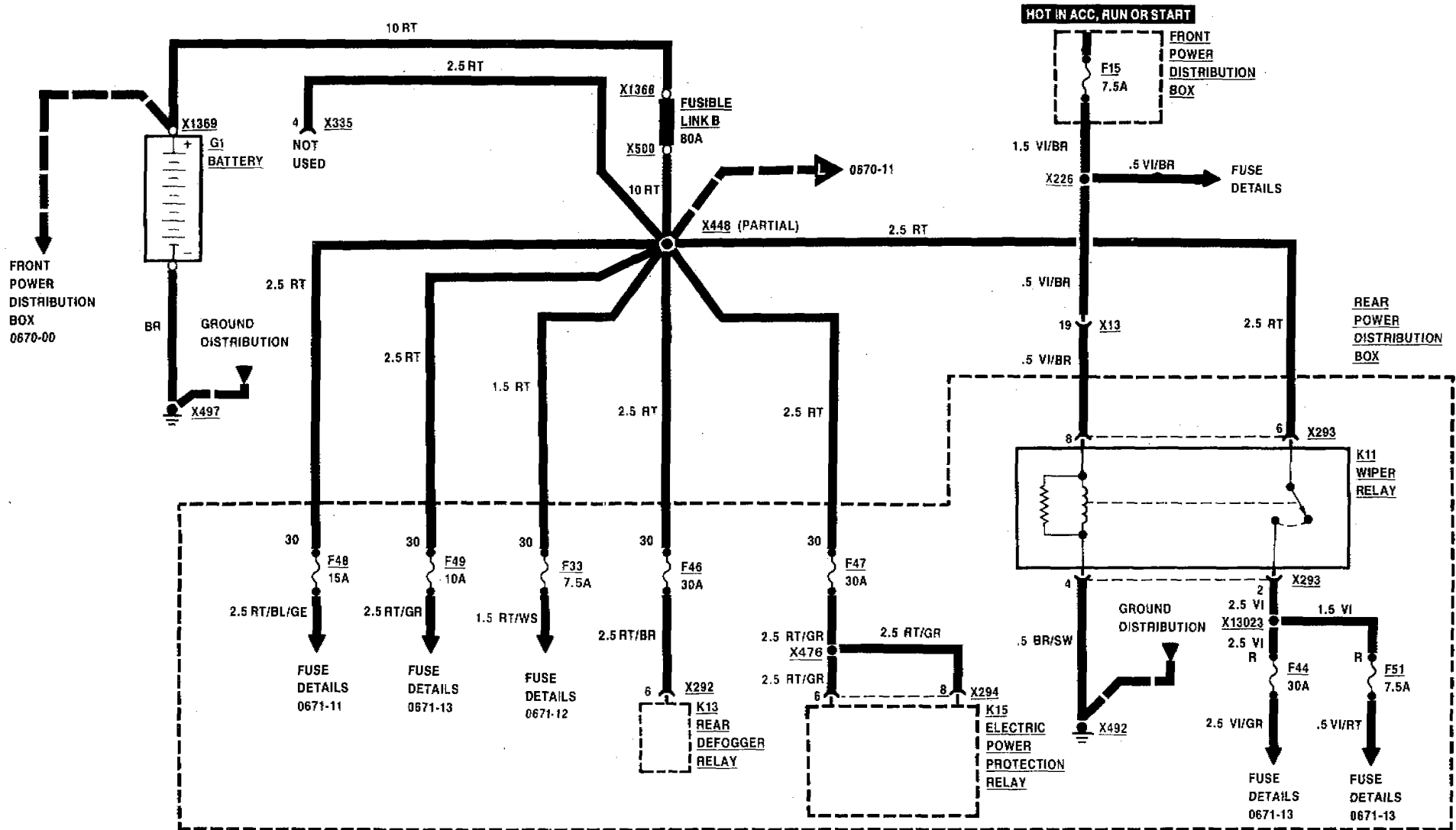
# POWER DISTRIBUTION FRONT POWER DISTRIBUTION BOX





# POWER DISTRIBUTION

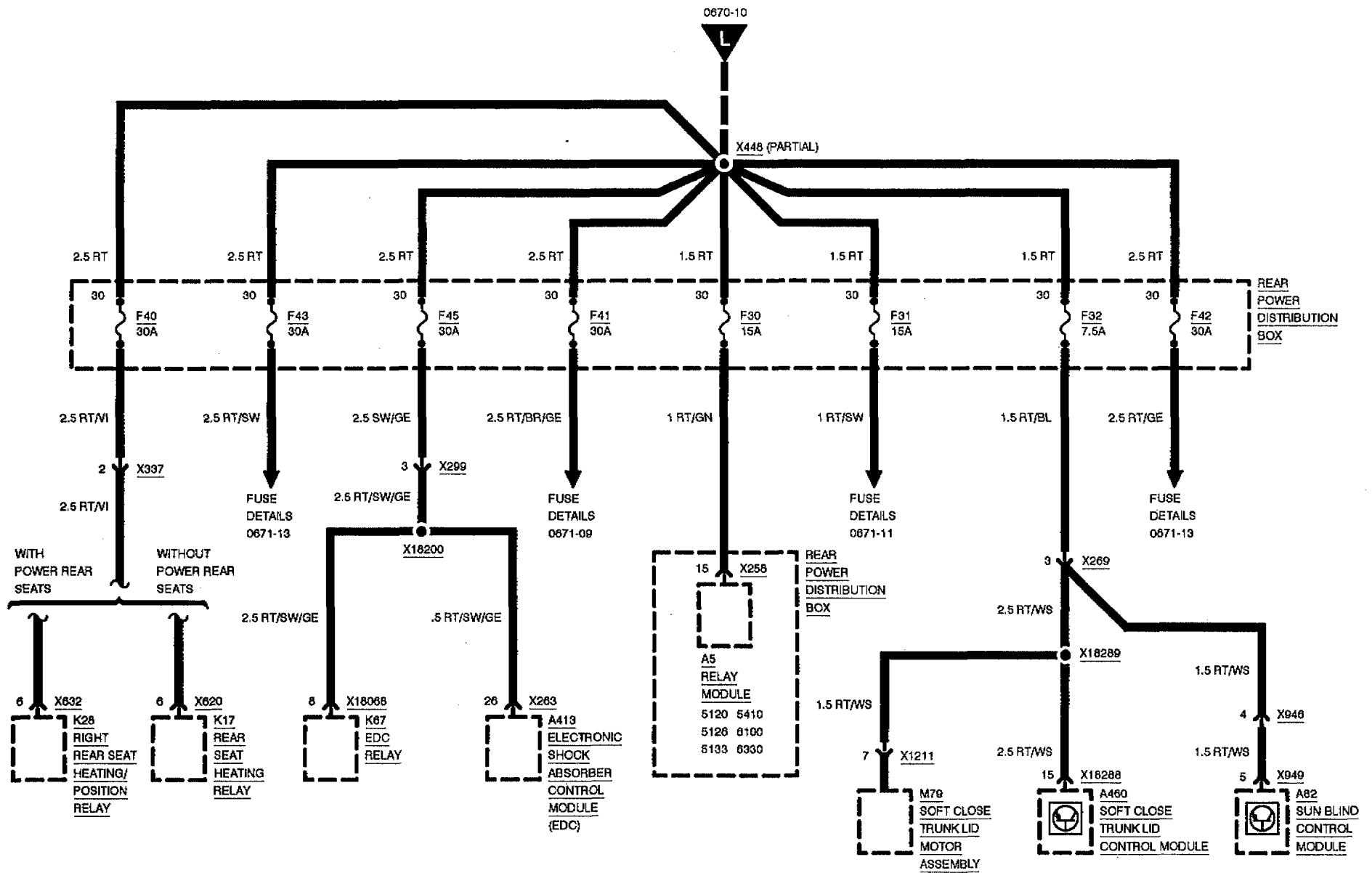
## REAR POWER DISTRIBUTION BOX





# POWER DISTRIBUTION

## REAR POWER DISTRIBUTION BOX



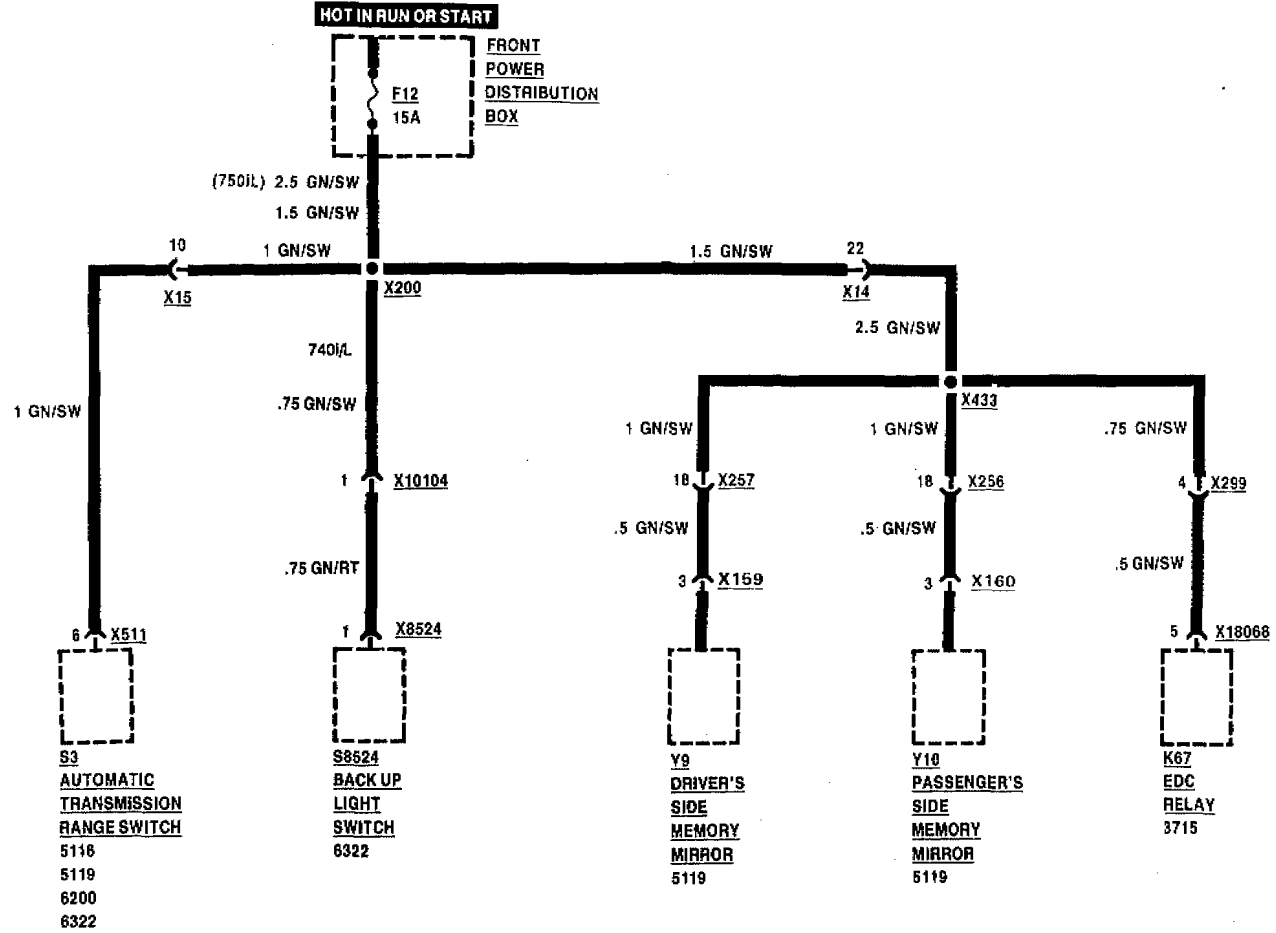




# FUSE DETAILS

## FUSE 12

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

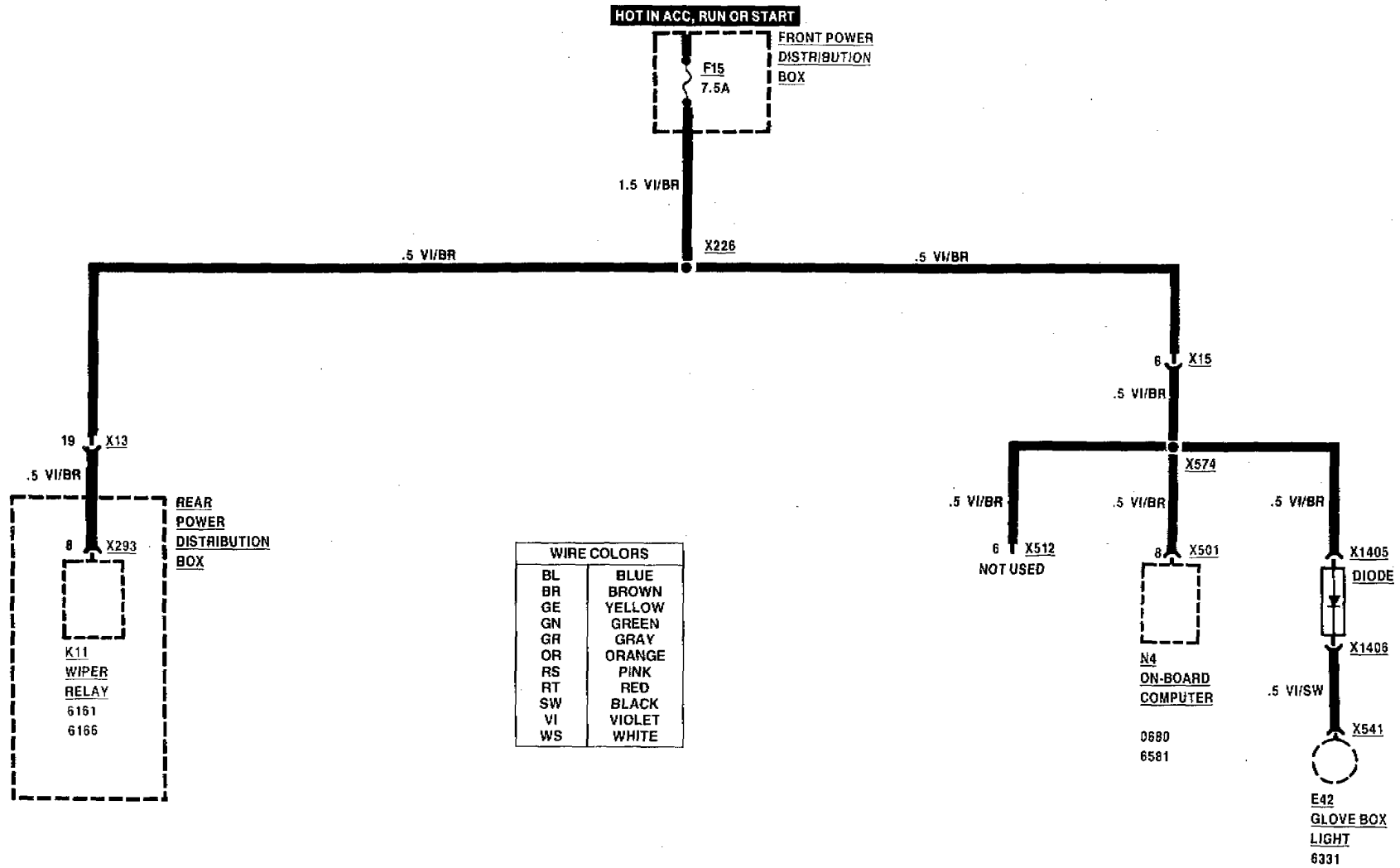






# FUSE DETAILS

## FUSE 15

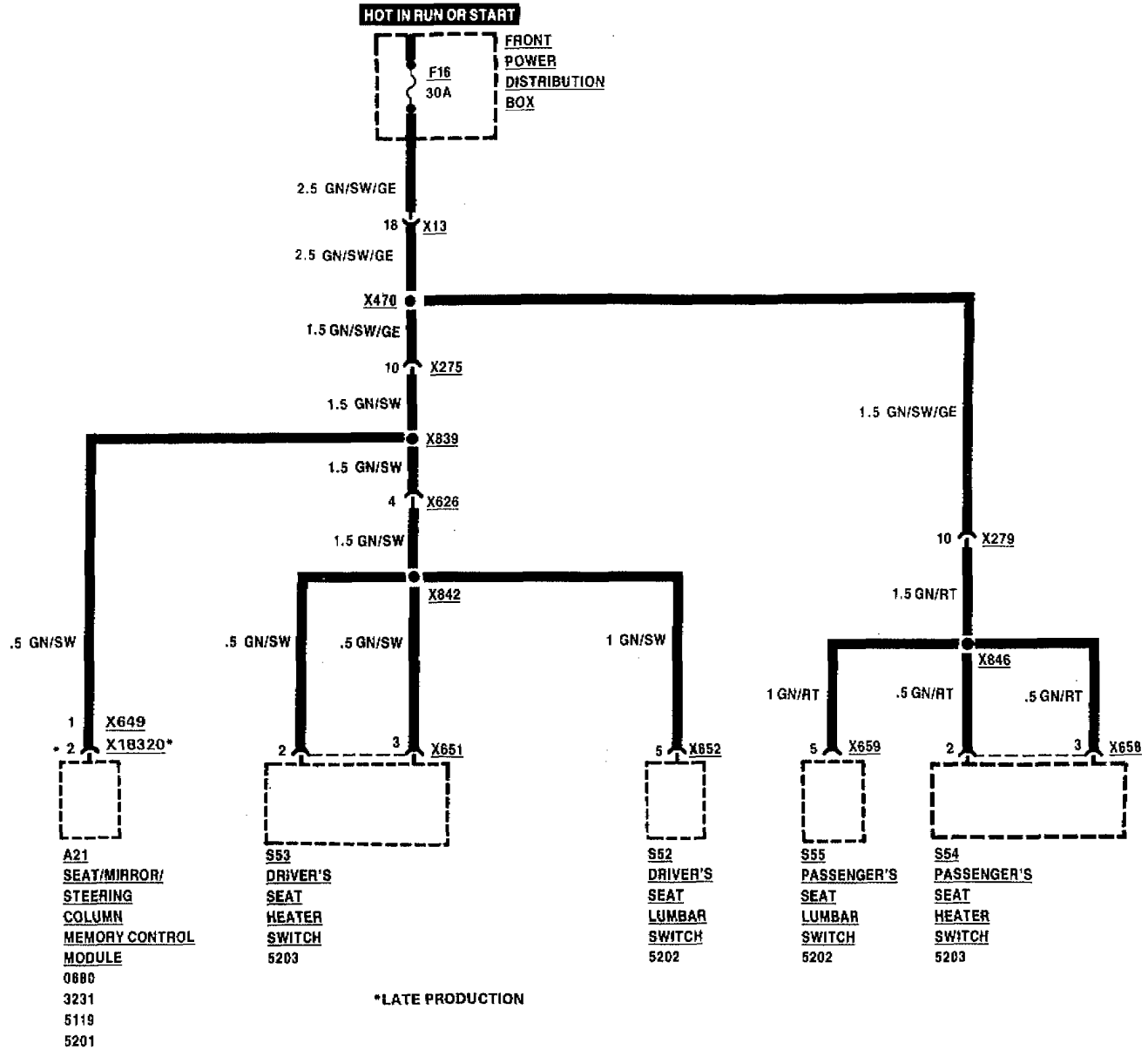




# FUSE DETAILS

## FUSE 16

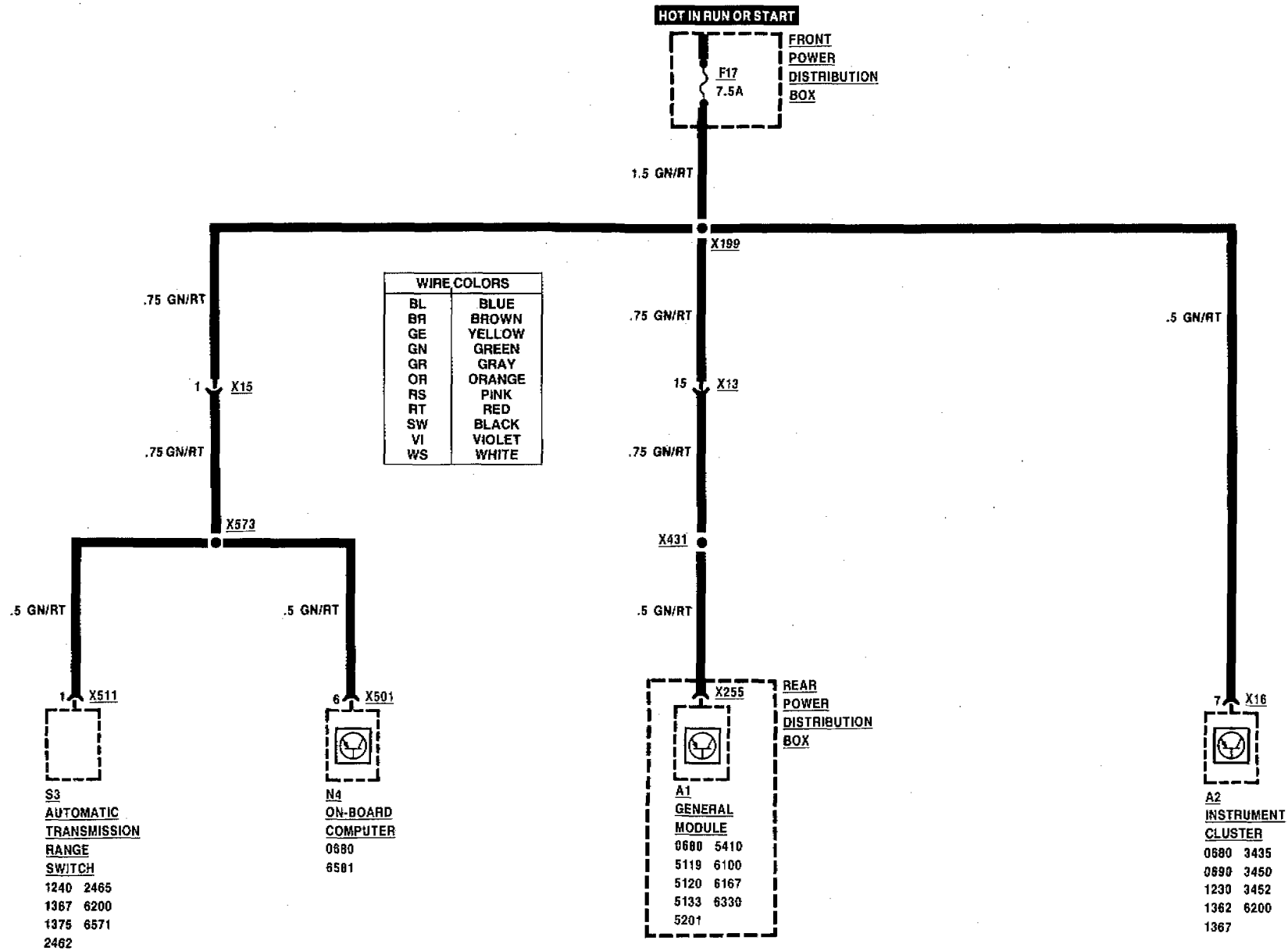
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
PT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# FUSE DETAILS

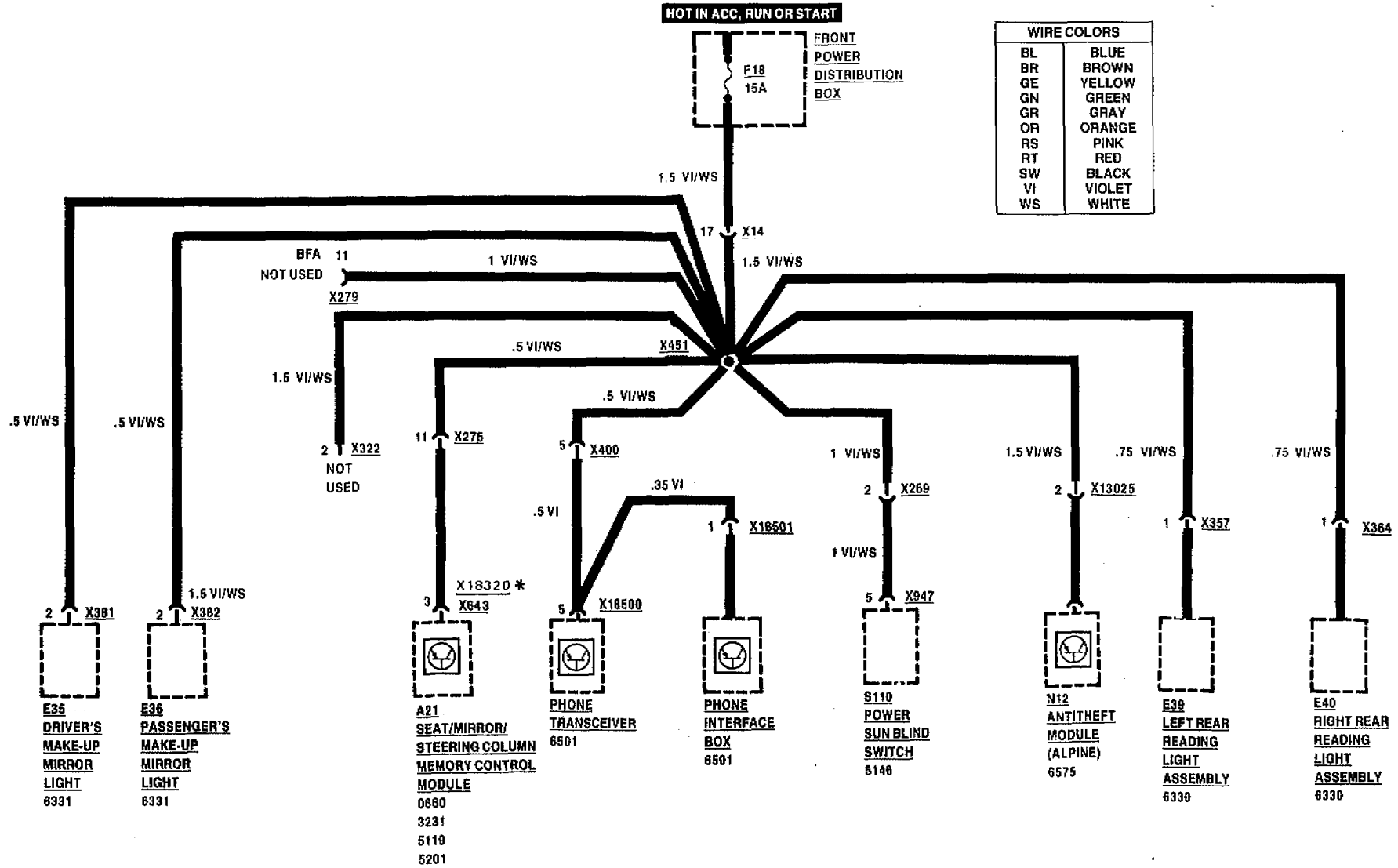
## FUSE 17





# FUSE DETAILS

## FUSE 18

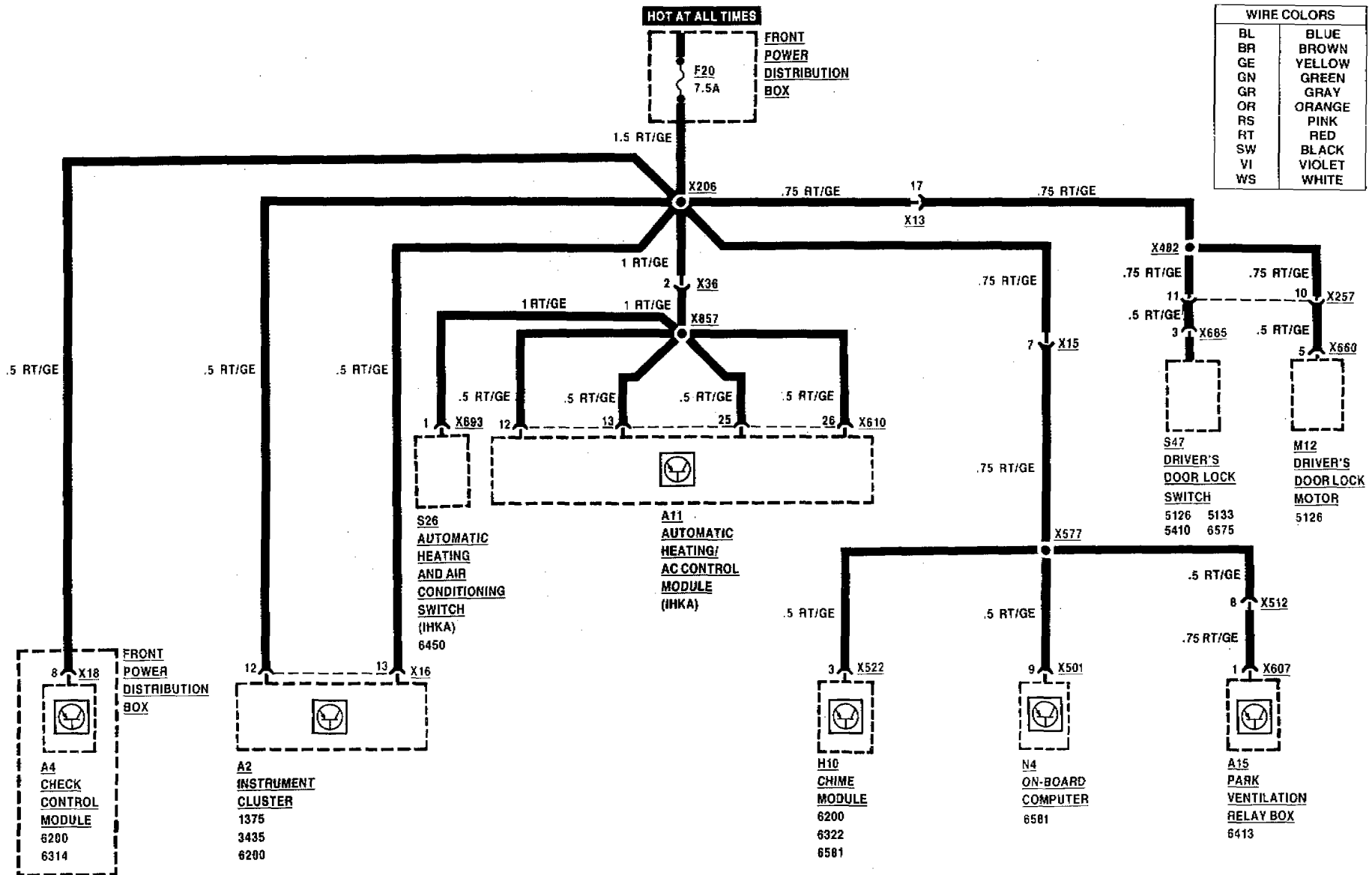


\* LATE PRODUCTION



# FUSE DETAILS

## FUSE 20

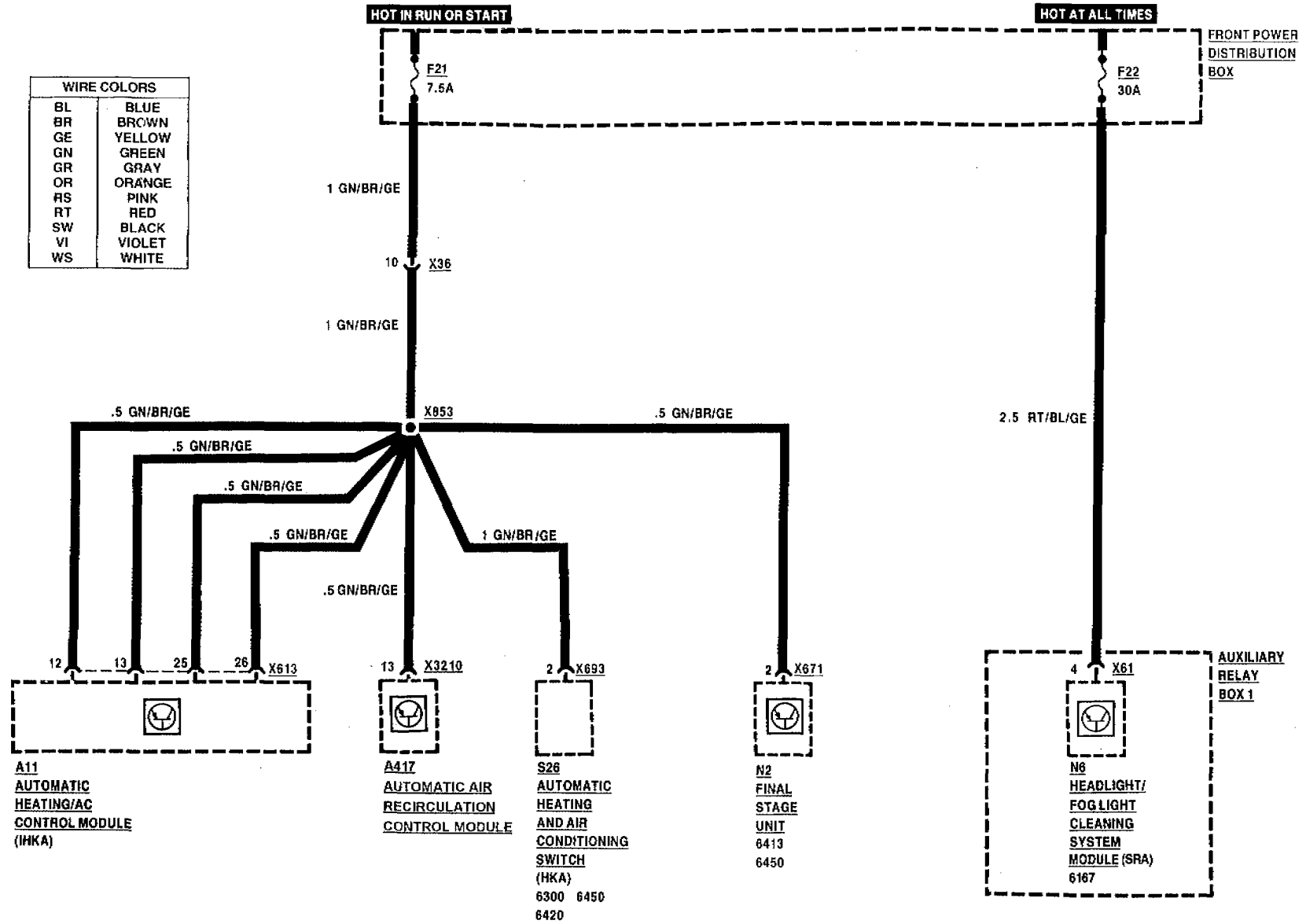




# FUSE DETAILS

## FUSES 21 AND 22

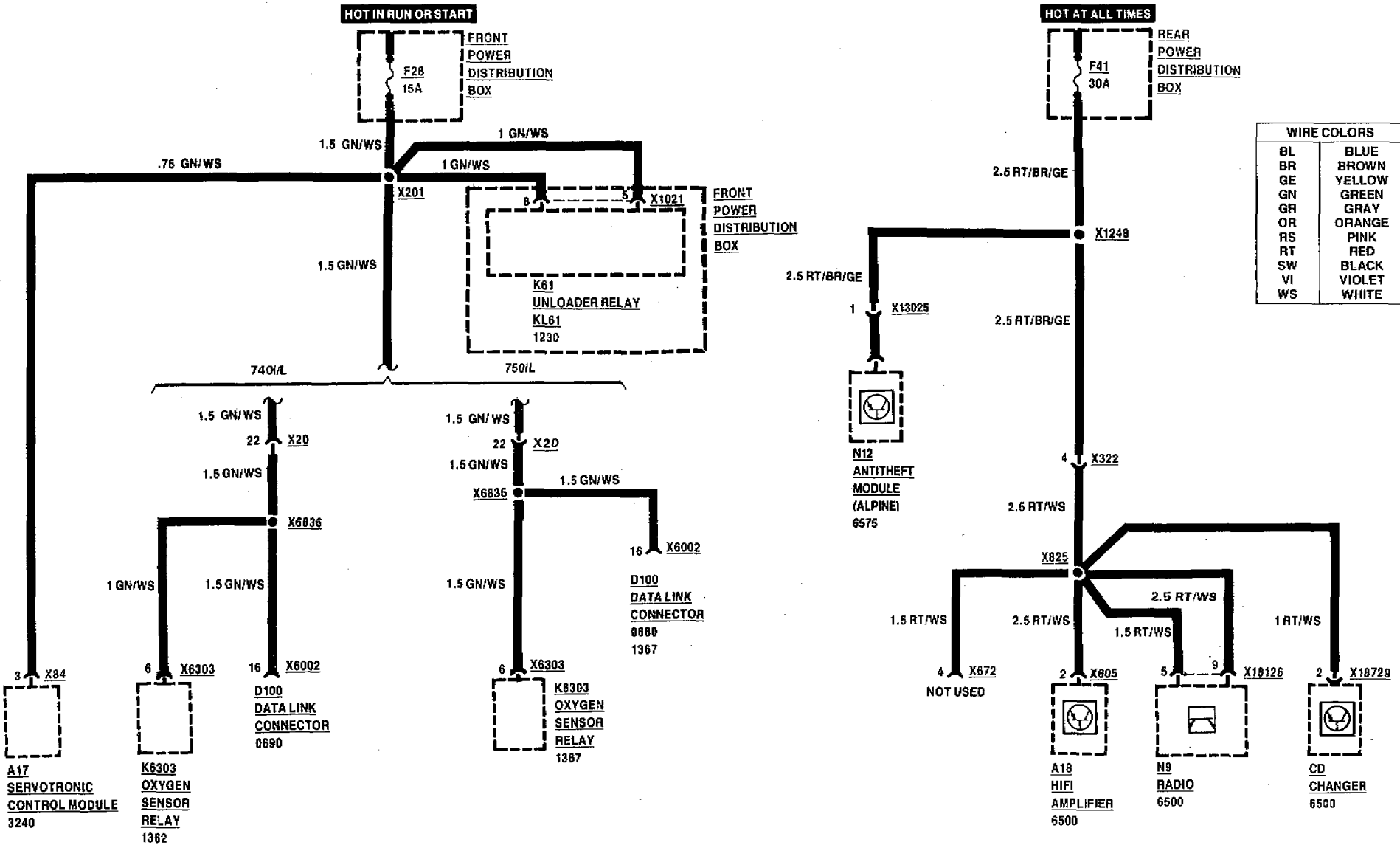
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



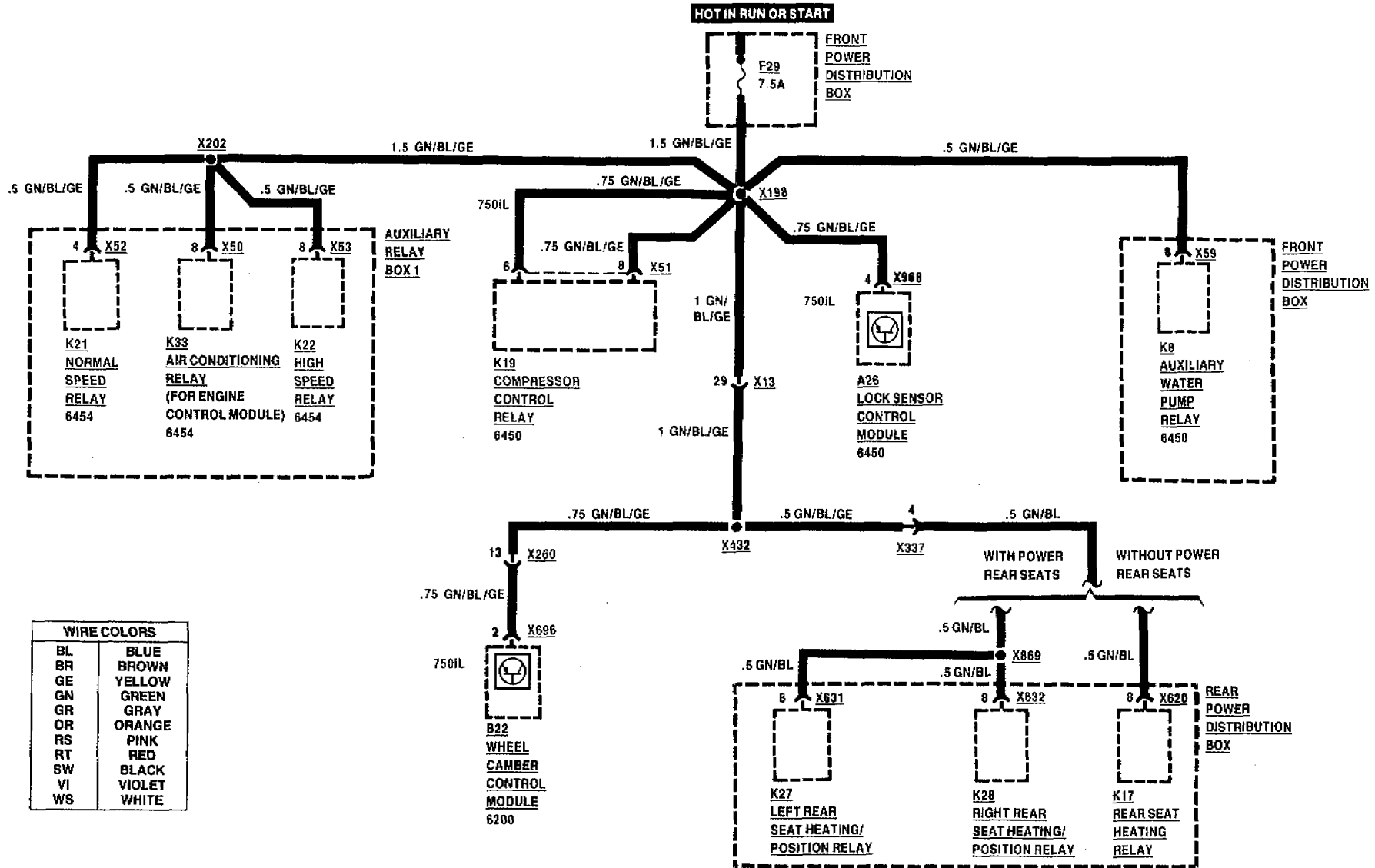


# FUSE DETAILS

## FUSES 28 AND 41



**BMW**  
**7** **FUSE DETAILS**  
**FUSE 29**



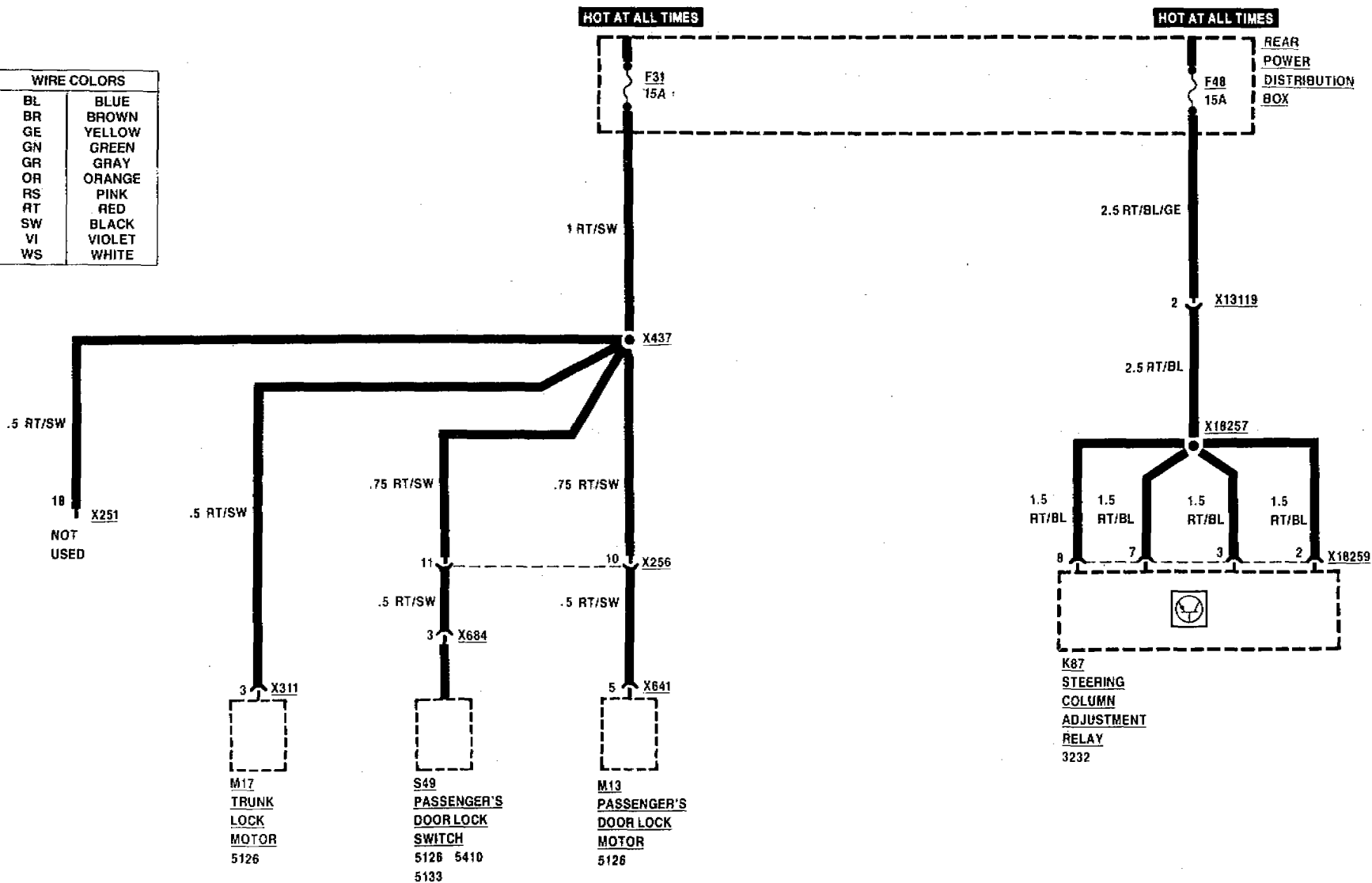




# FUSE DETAILS

## FUSES 31 AND 48

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



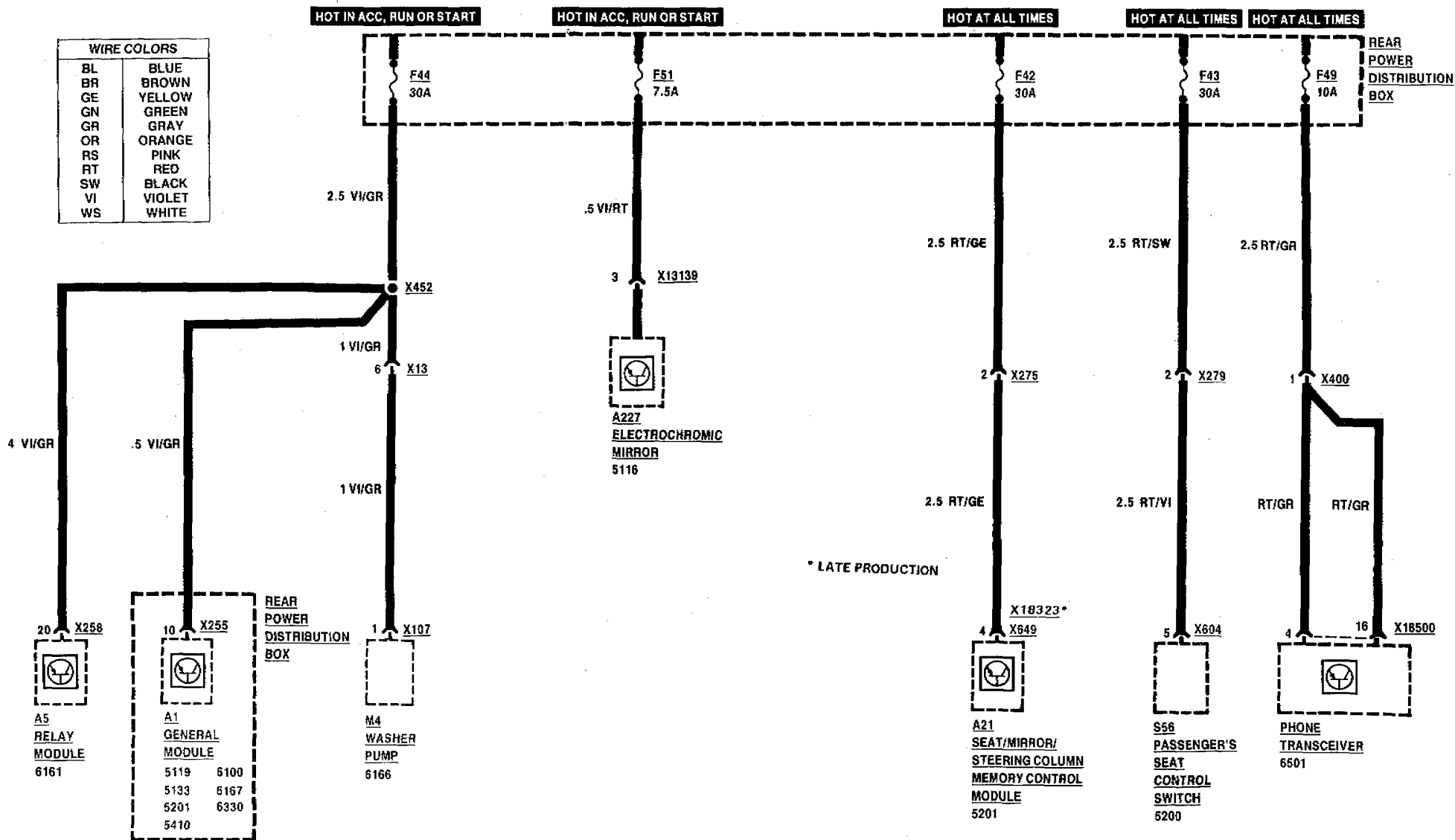




# FUSE DETAILS

## FUSES 42, 43, 44, 49 AND 51

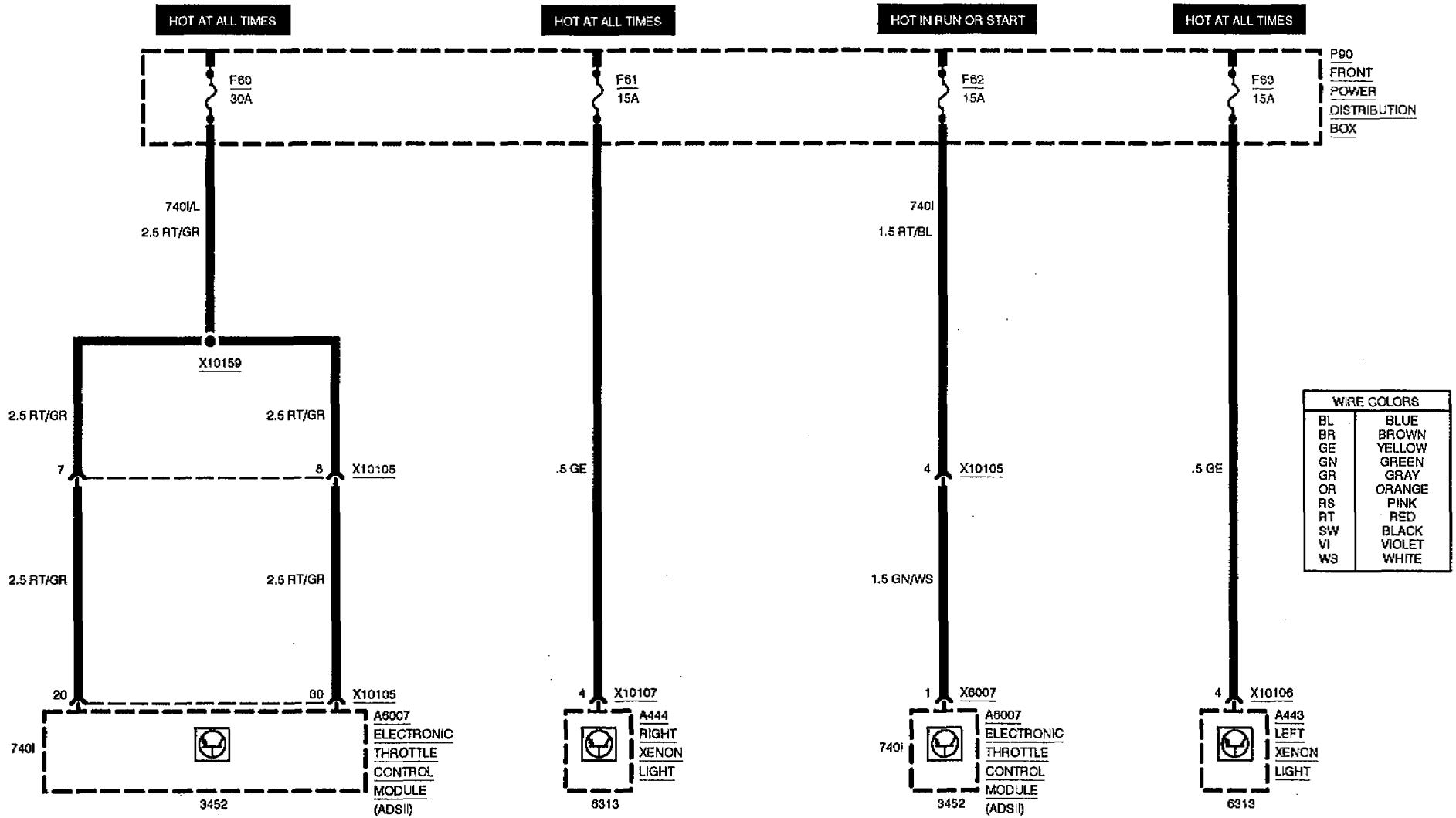
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# FUSE DETAILS

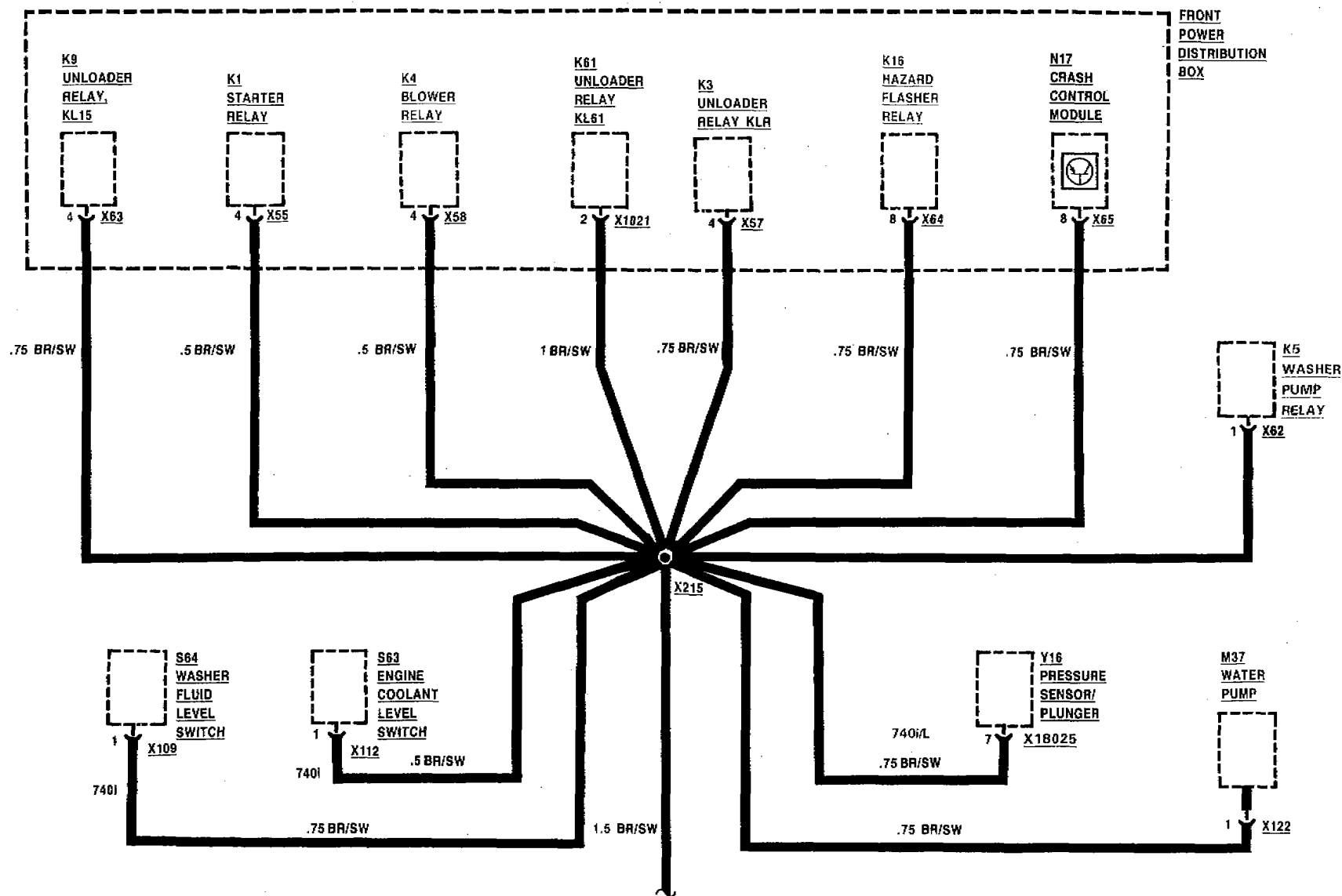
## FUSES 60, 61, 62 AND 63





# GROUND DISTRIBUTION

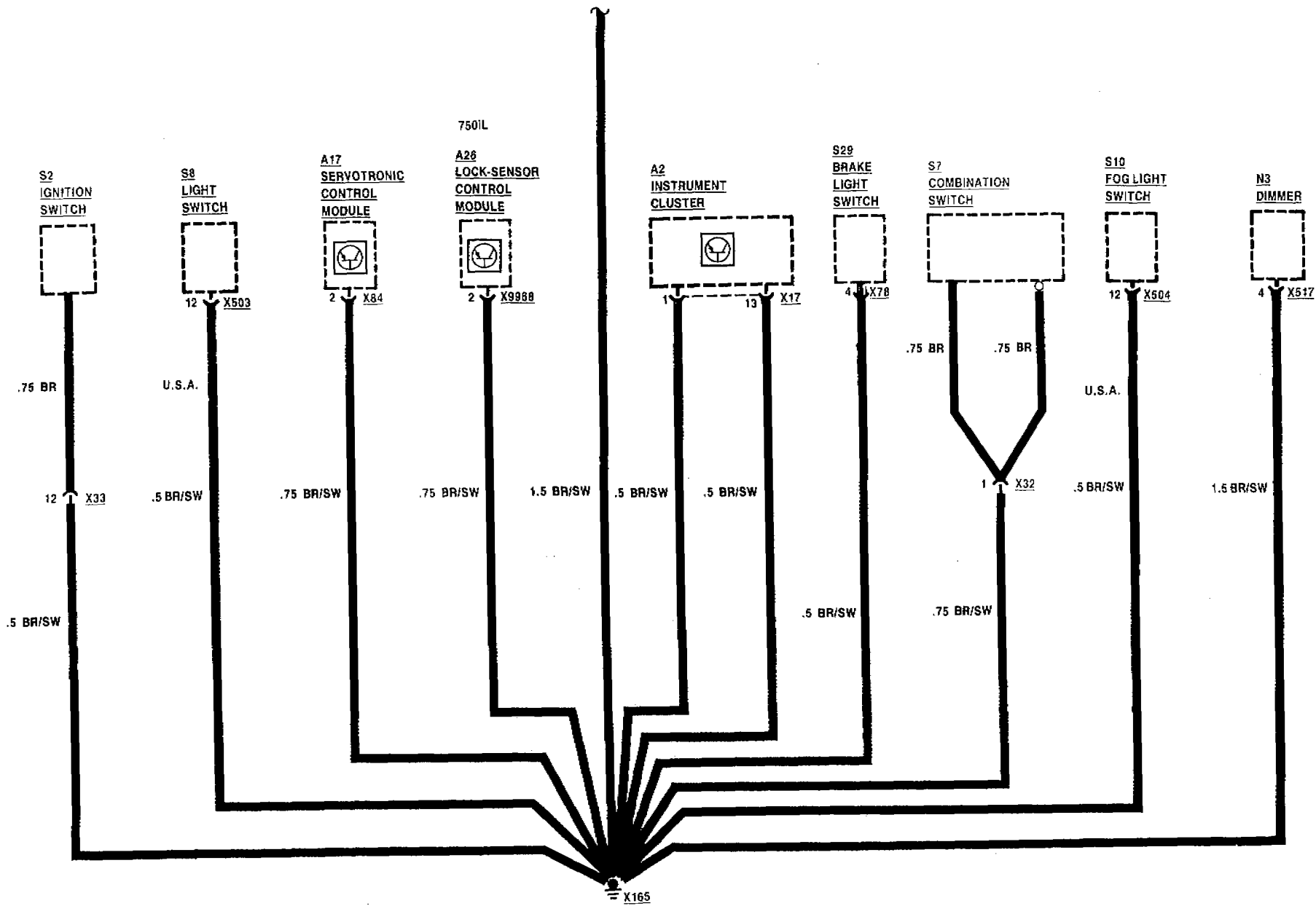
## GROUND X165



12/93

0672-00

93/94

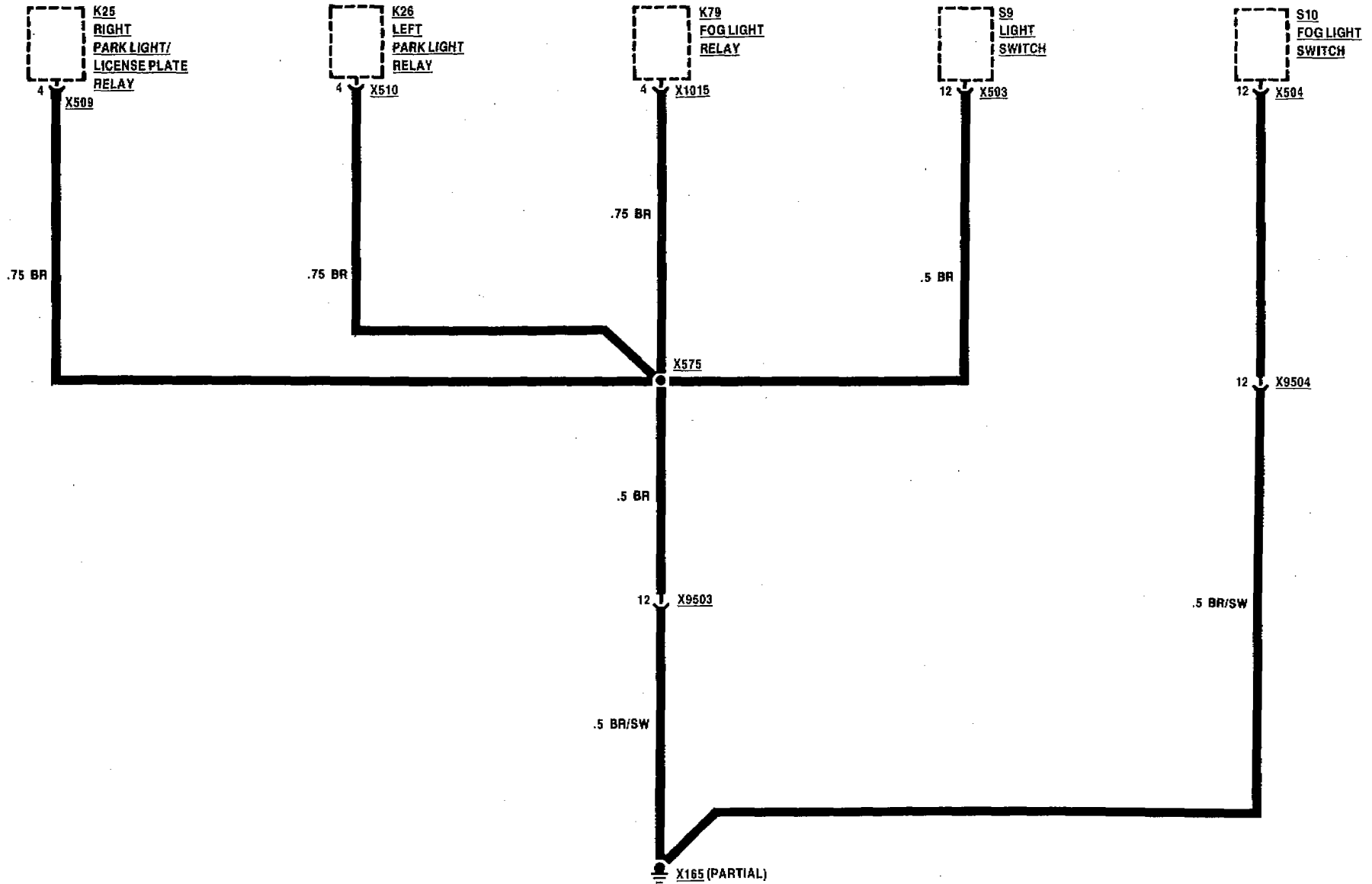




# GROUND DISTRIBUTION

## GROUND X165

CANADA



12/93

0672-02

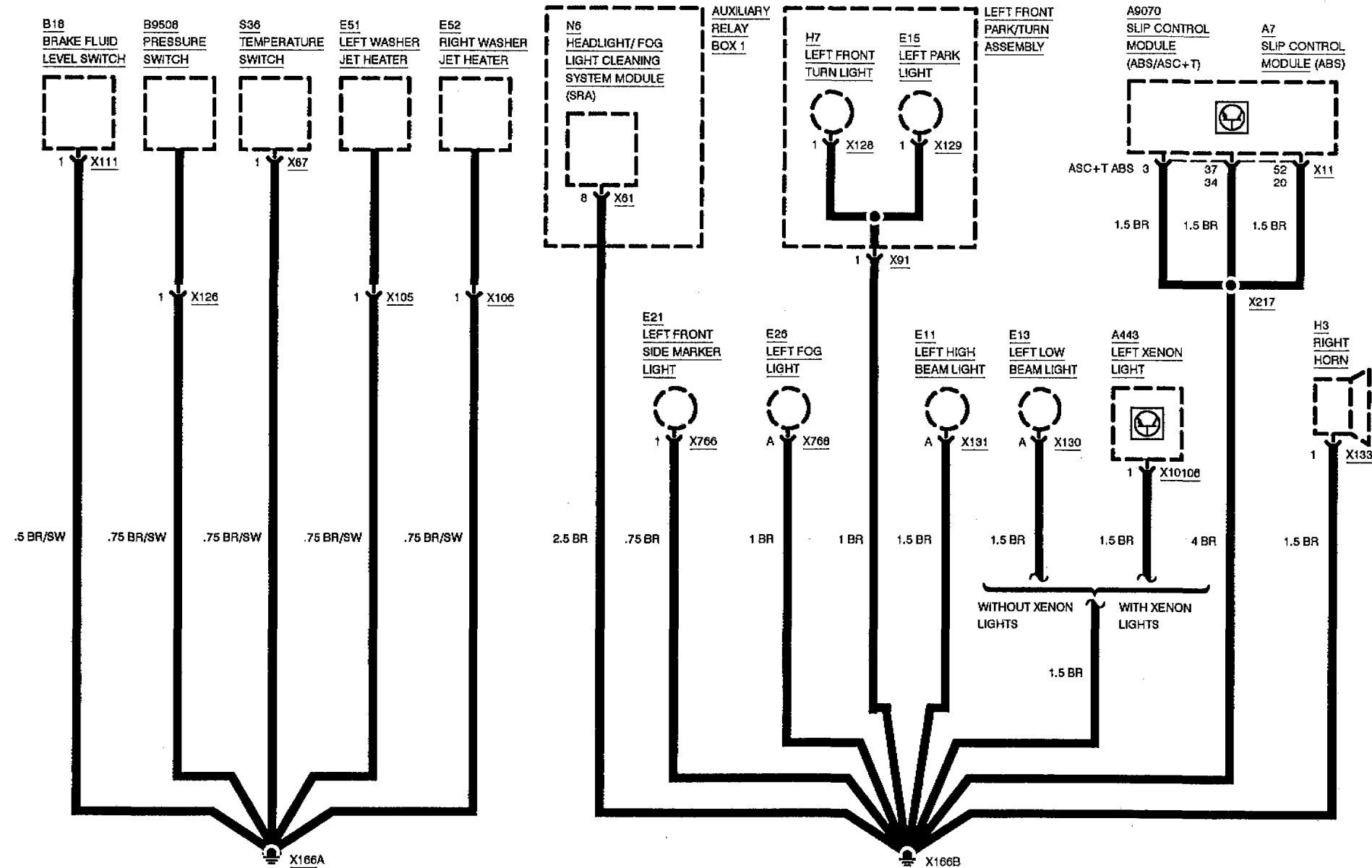
93/94



# GROUND DISTRIBUTION

## GROUNDS X166A AND X166B

740i/L



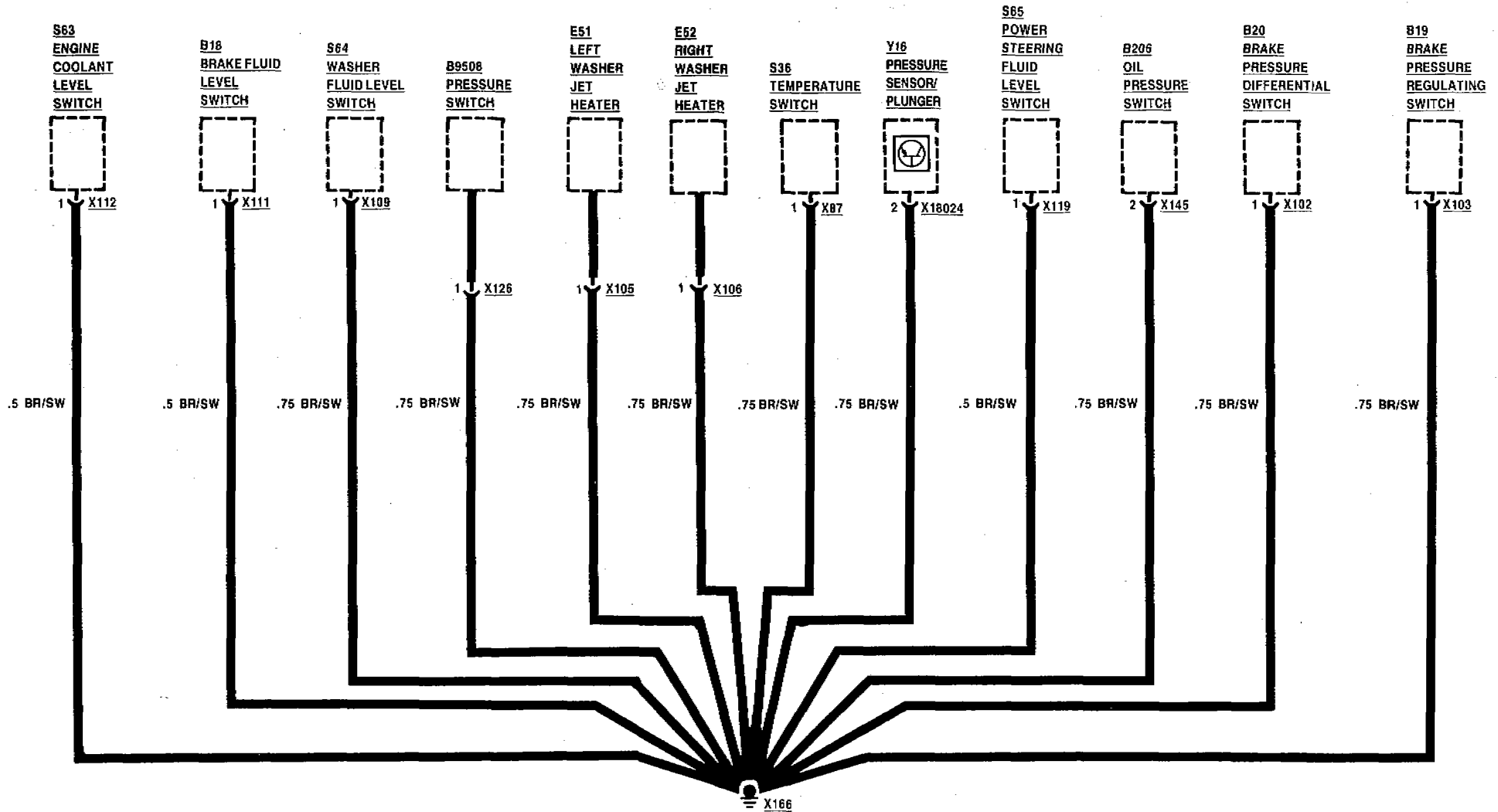




# GROUND DISTRIBUTION

750iL

## GROUND X166

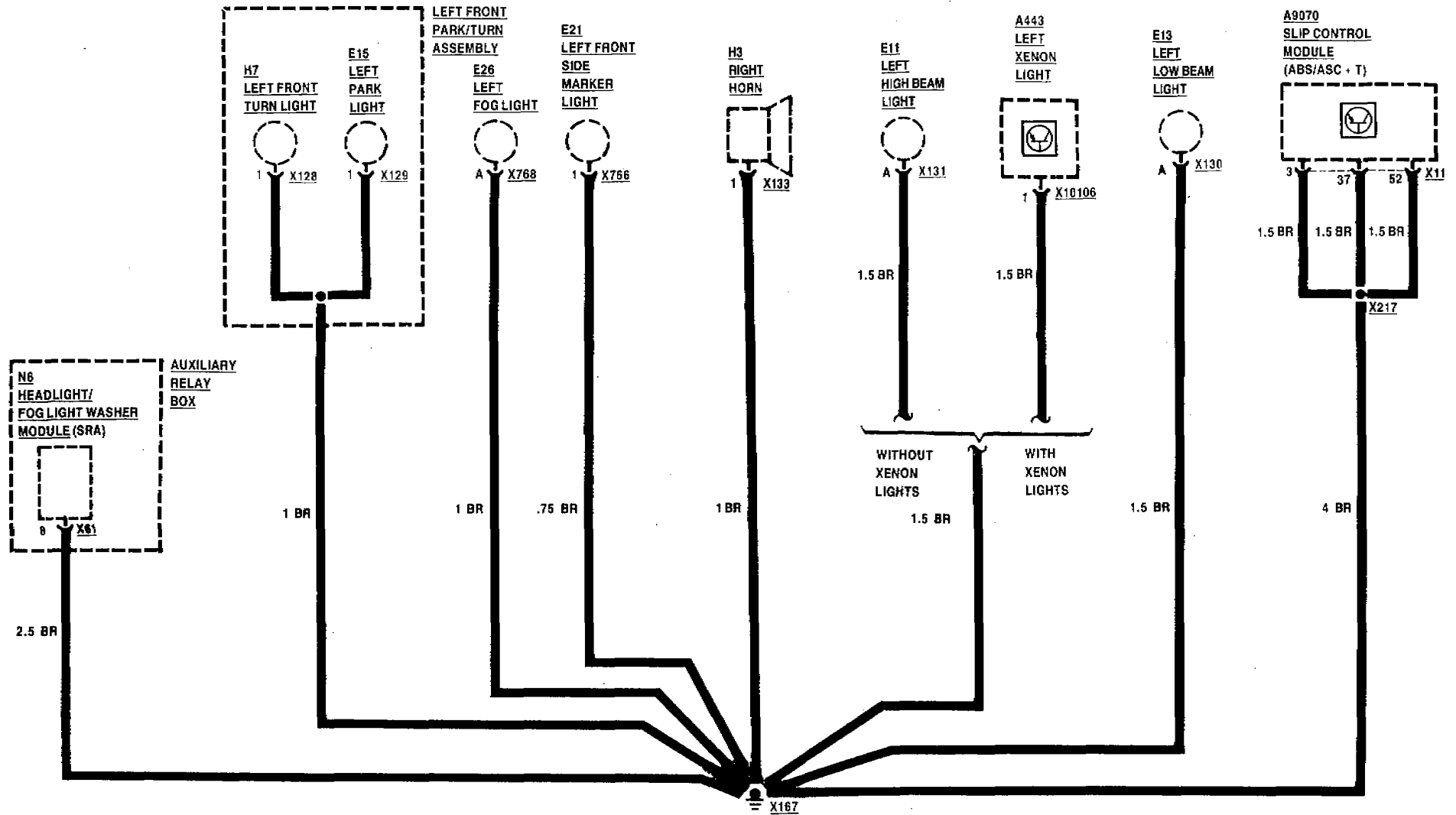




# GROUND DISTRIBUTION

## GROUND X167

750iL





**GROUND DISTRIBUTION**  
**GROUNDS X172**

740i/L

Y1  
ABS  
HYDRAULIC  
UNIT

PUMP  
MOTOR

X170

6BR

X172

12/93

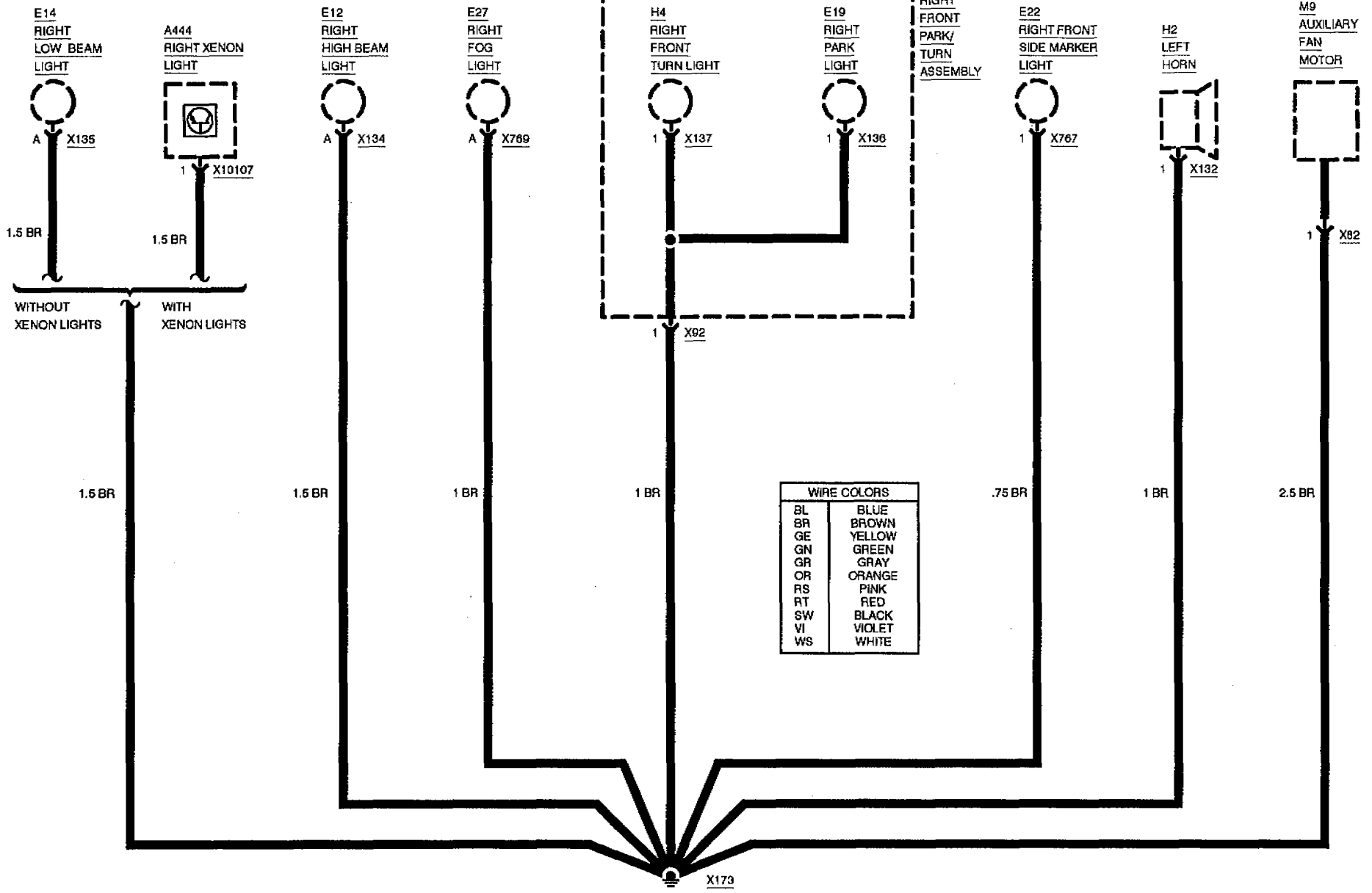
0672-06

93/94



# GROUND DISTRIBUTION

## GROUND X173

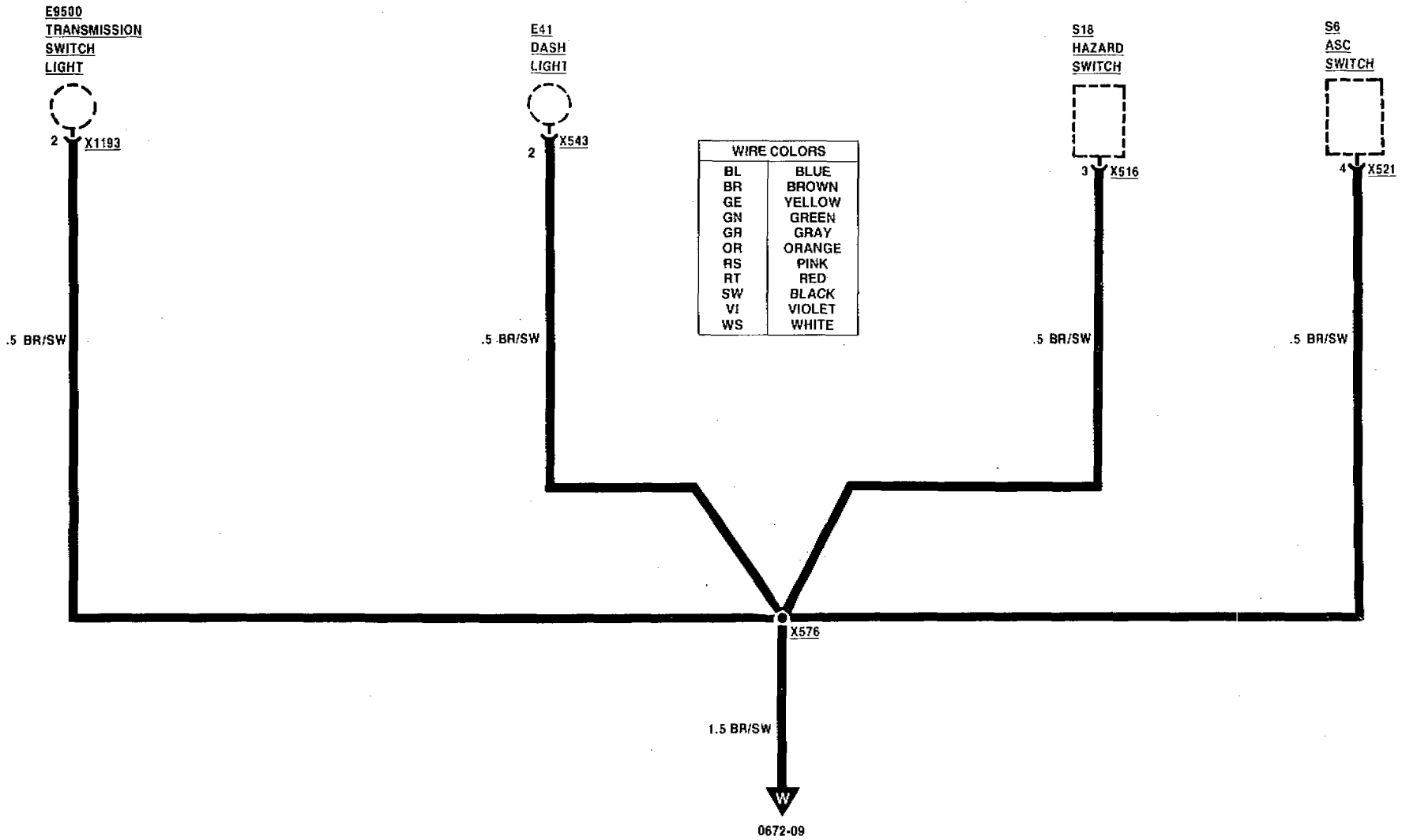


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# GROUND DISTRIBUTION

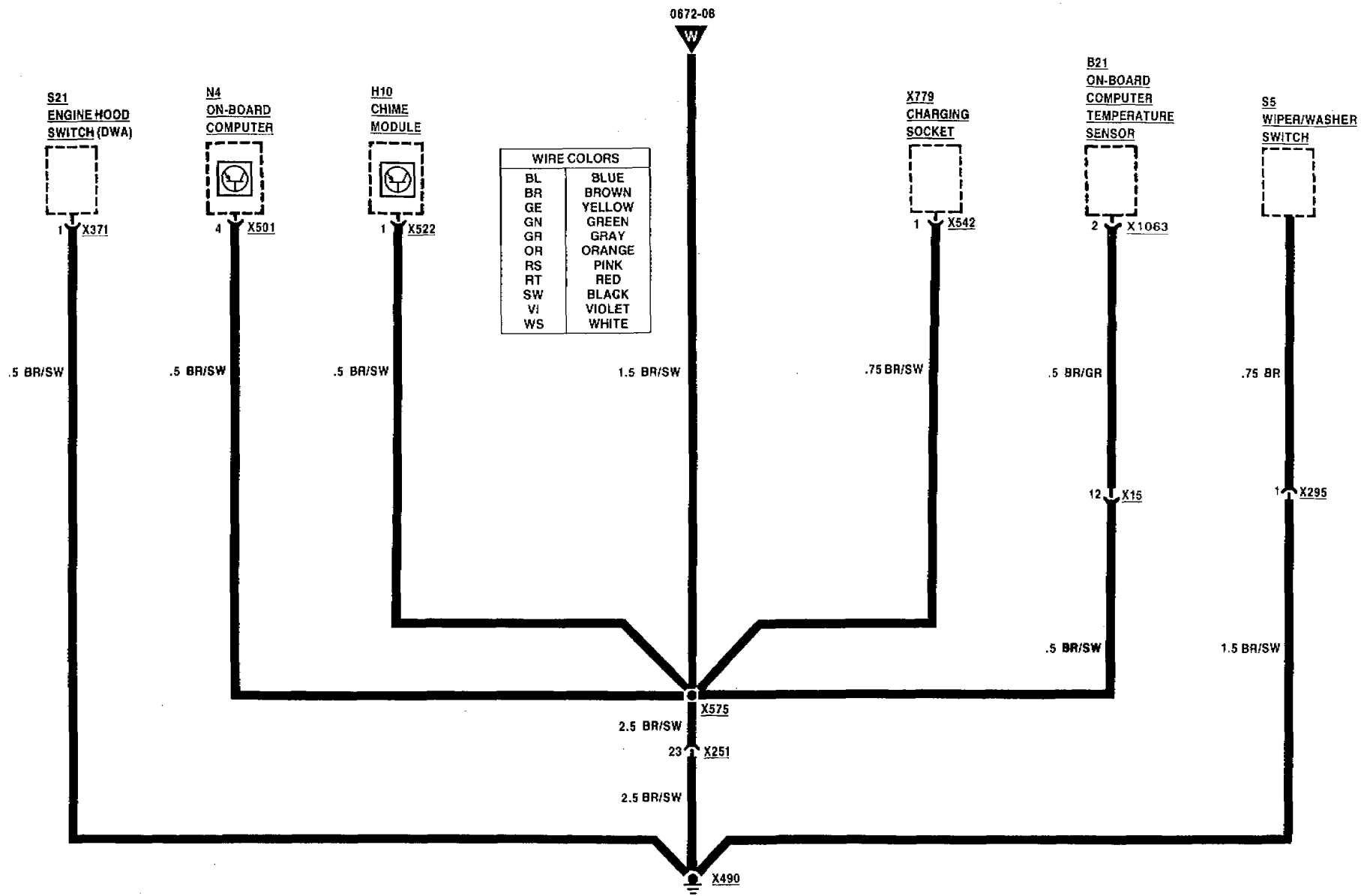
## GROUND X490





# GROUND DISTRIBUTION

## GROUND X490

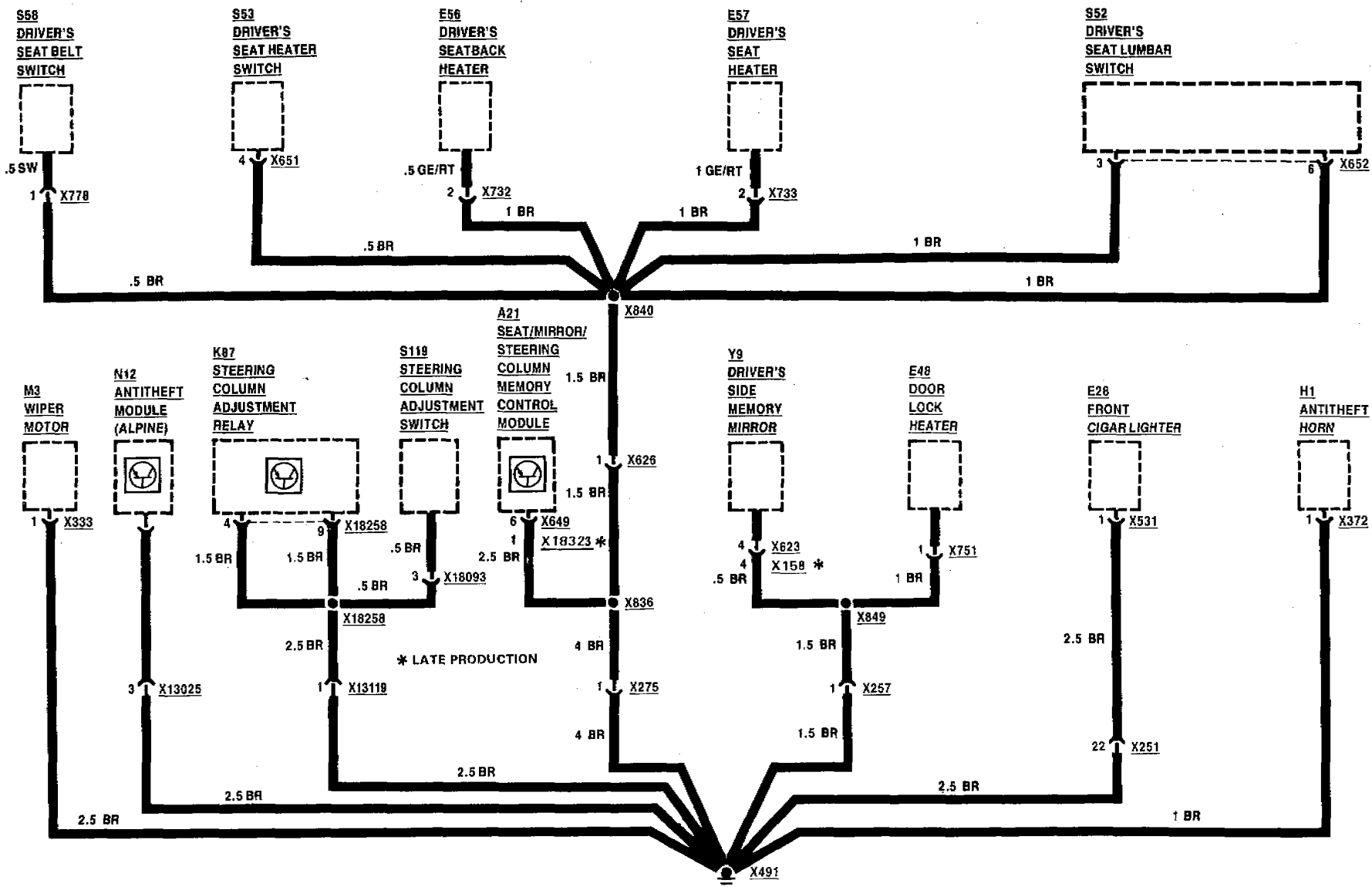


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# GROUND DISTRIBUTION

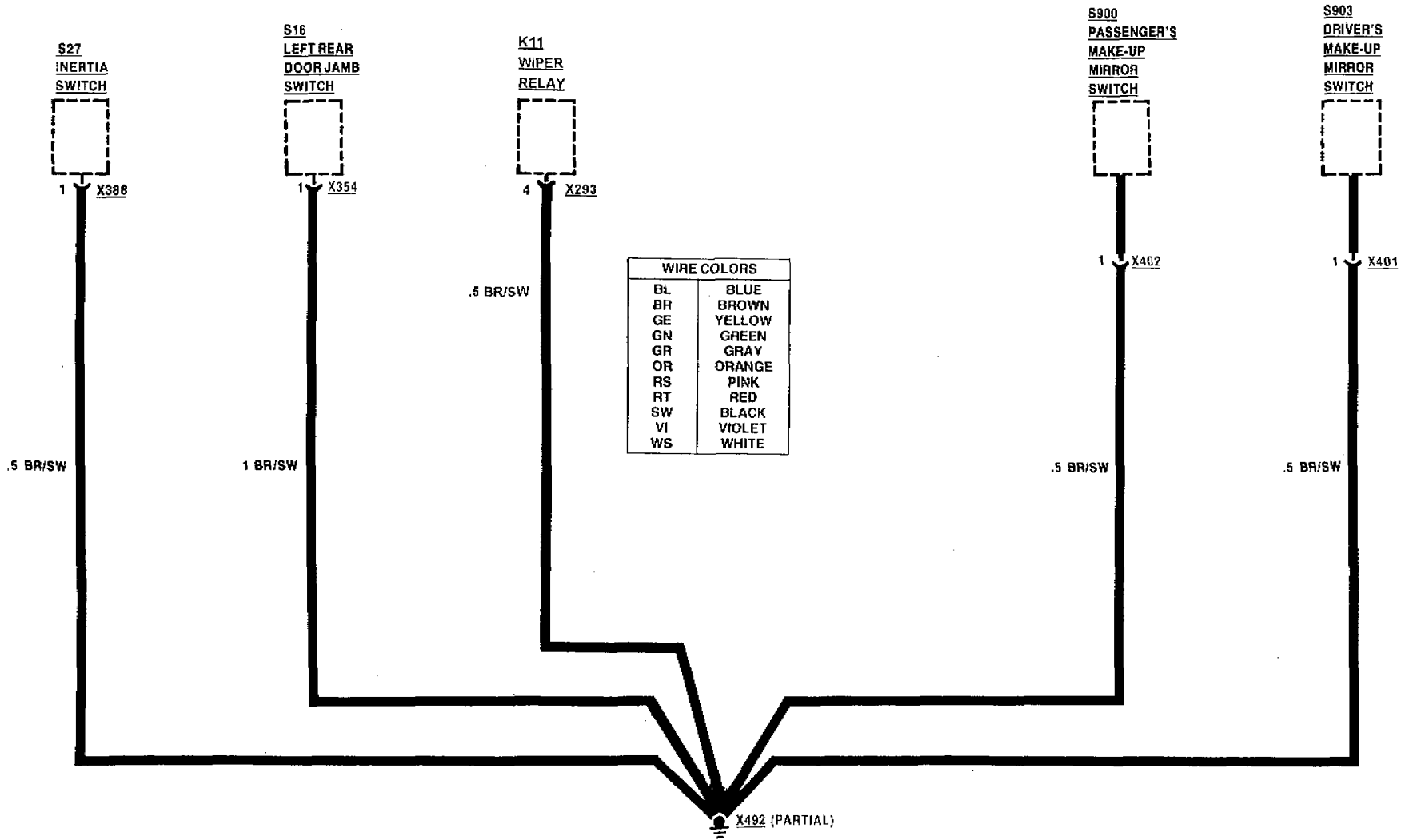
## GROUND X491





# GROUND DISTRIBUTION

## GROUND X492



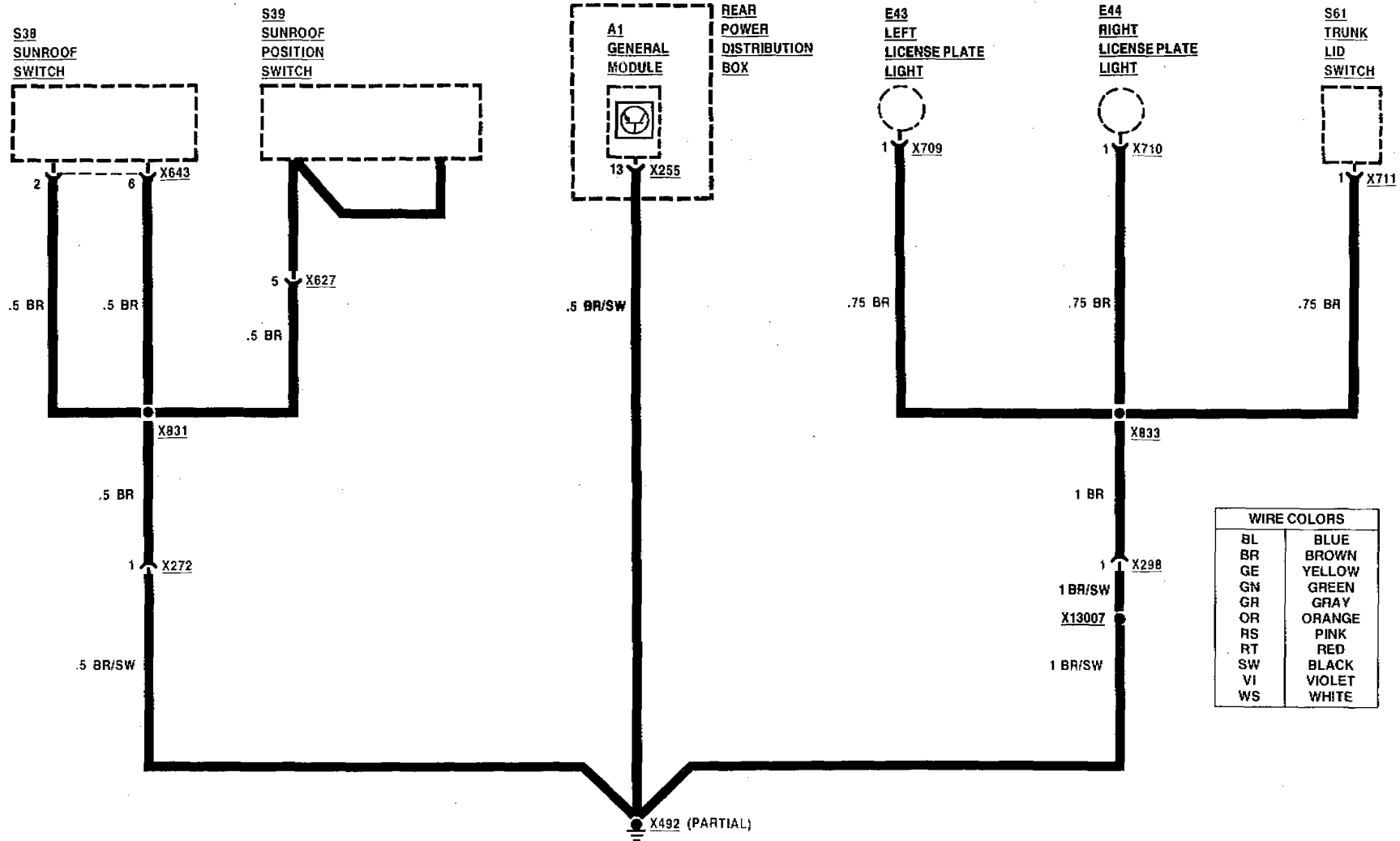
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# GROUND DISTRIBUTION

## GROUND X492

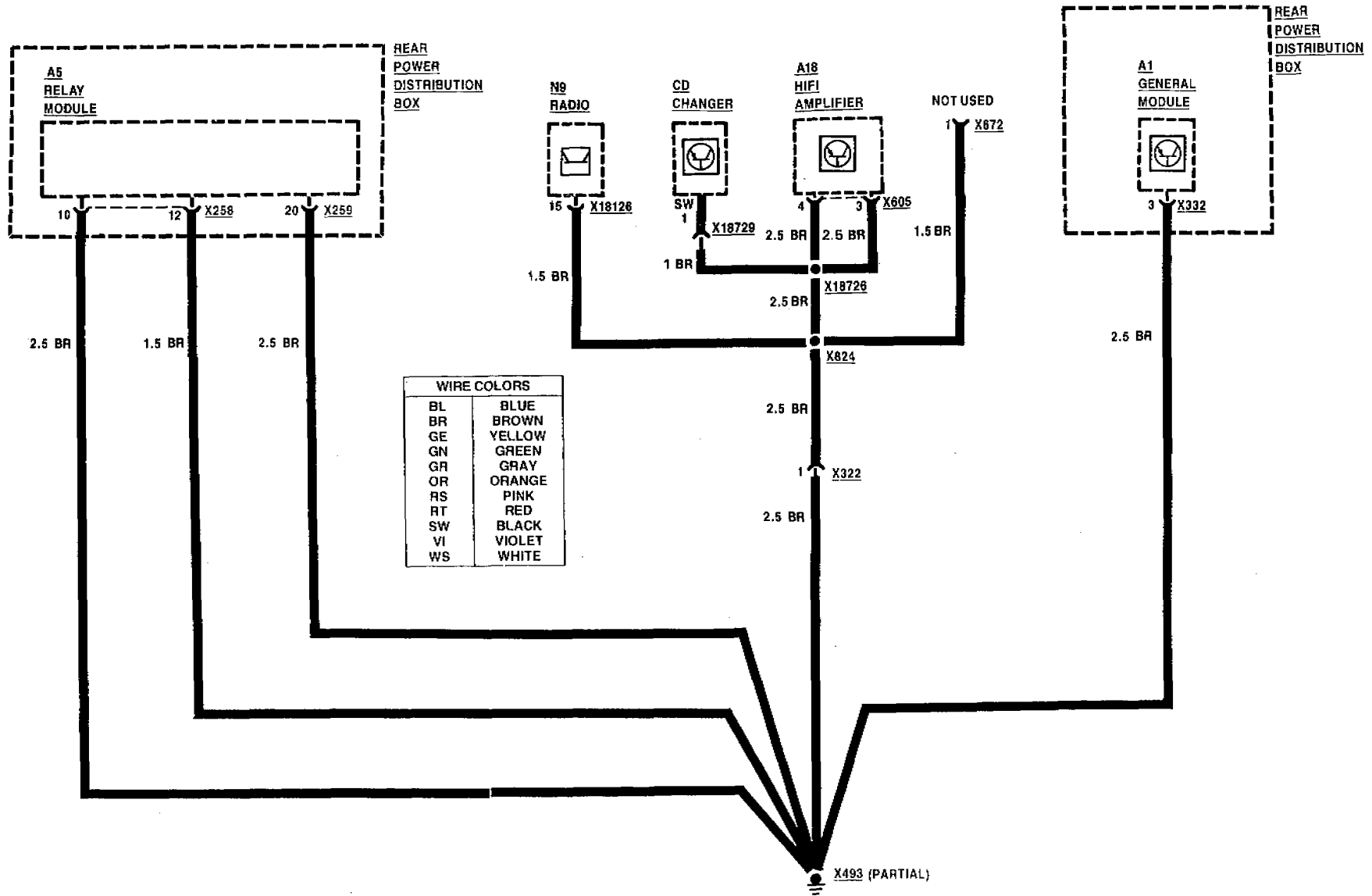


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# GROUND DISTRIBUTION

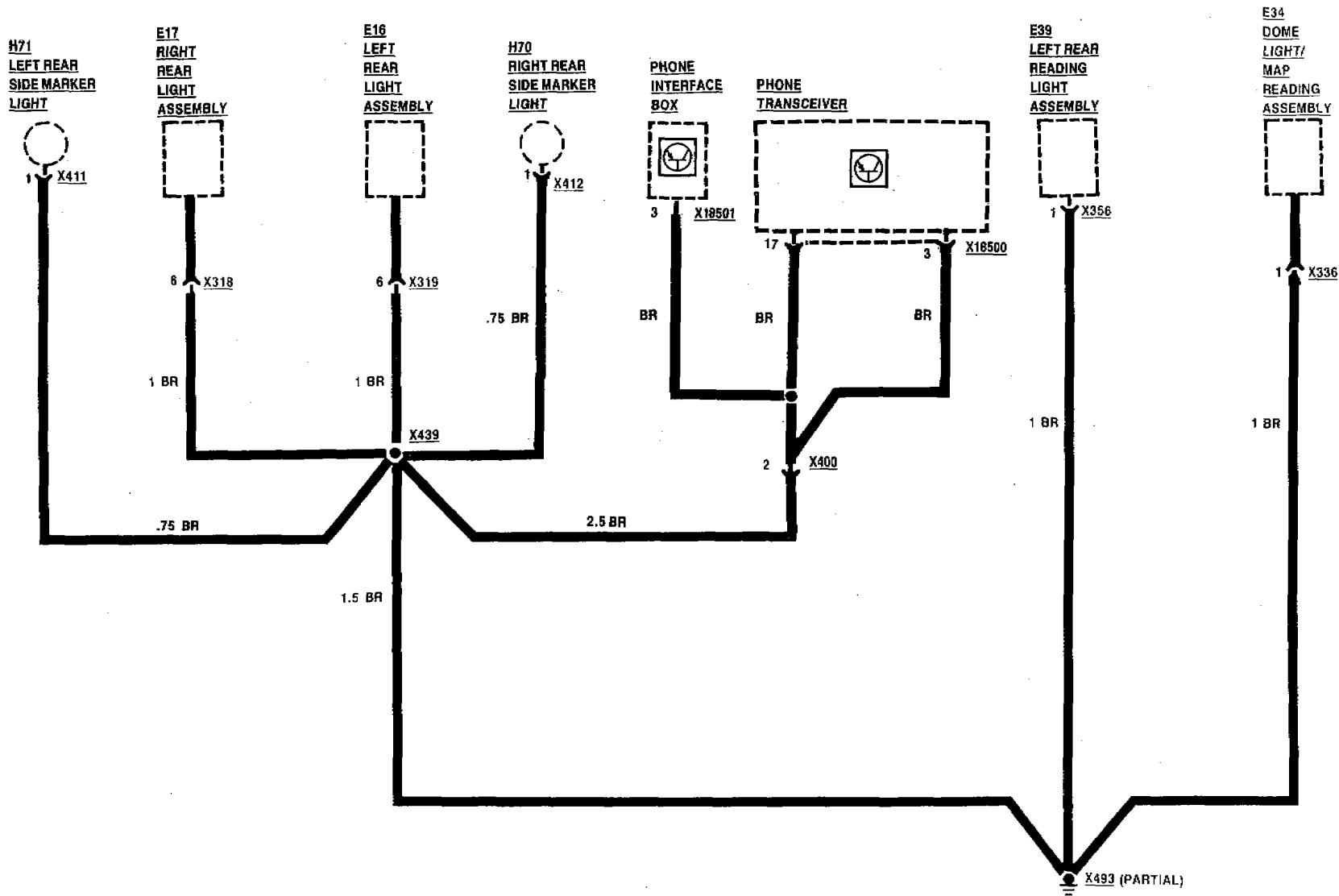
## GROUND X493





# GROUND DISTRIBUTION

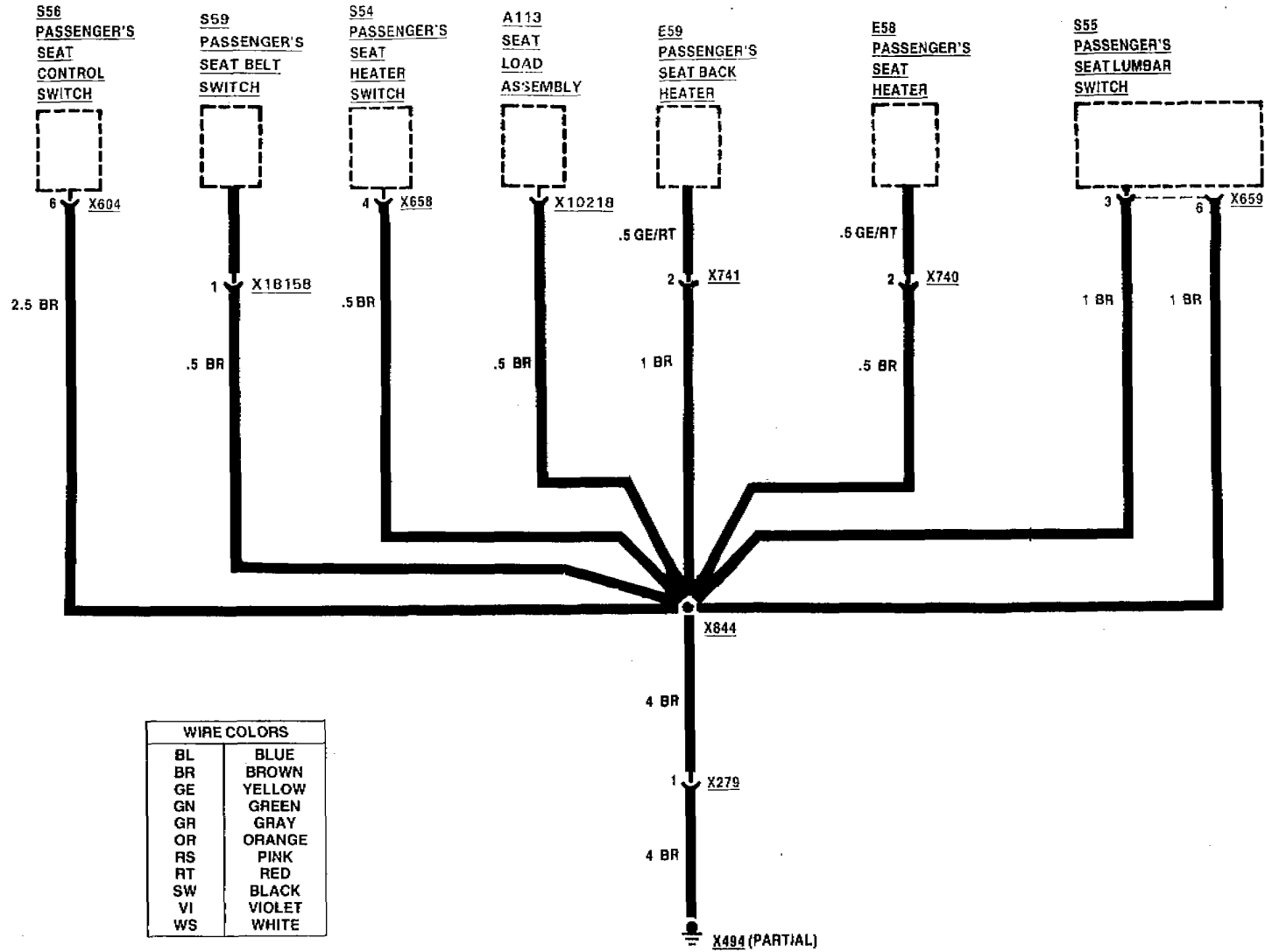
## GROUND X493





# GROUND DISTRIBUTION

## GROUND X494

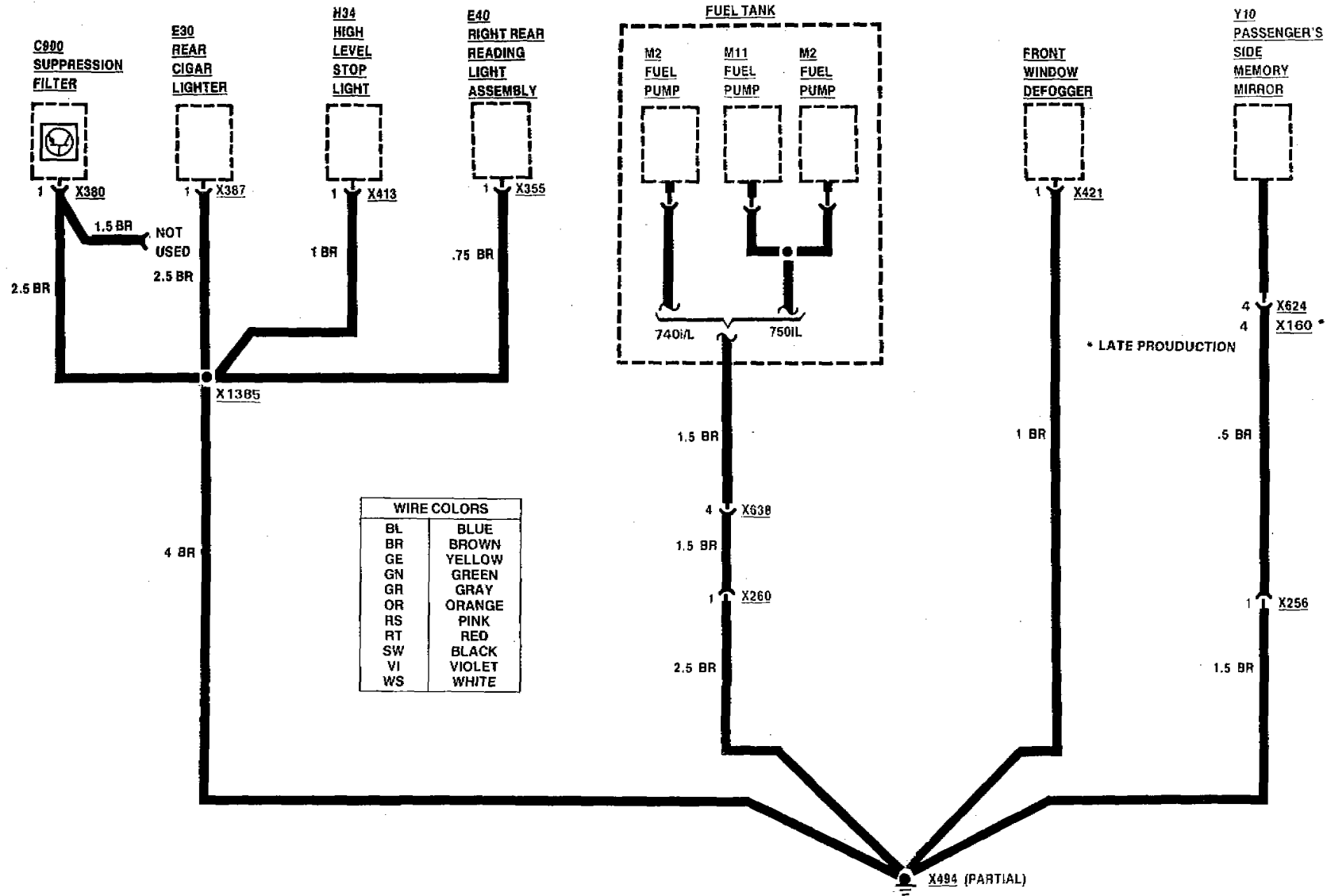


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# GROUND DISTRIBUTION

## GROUND X494

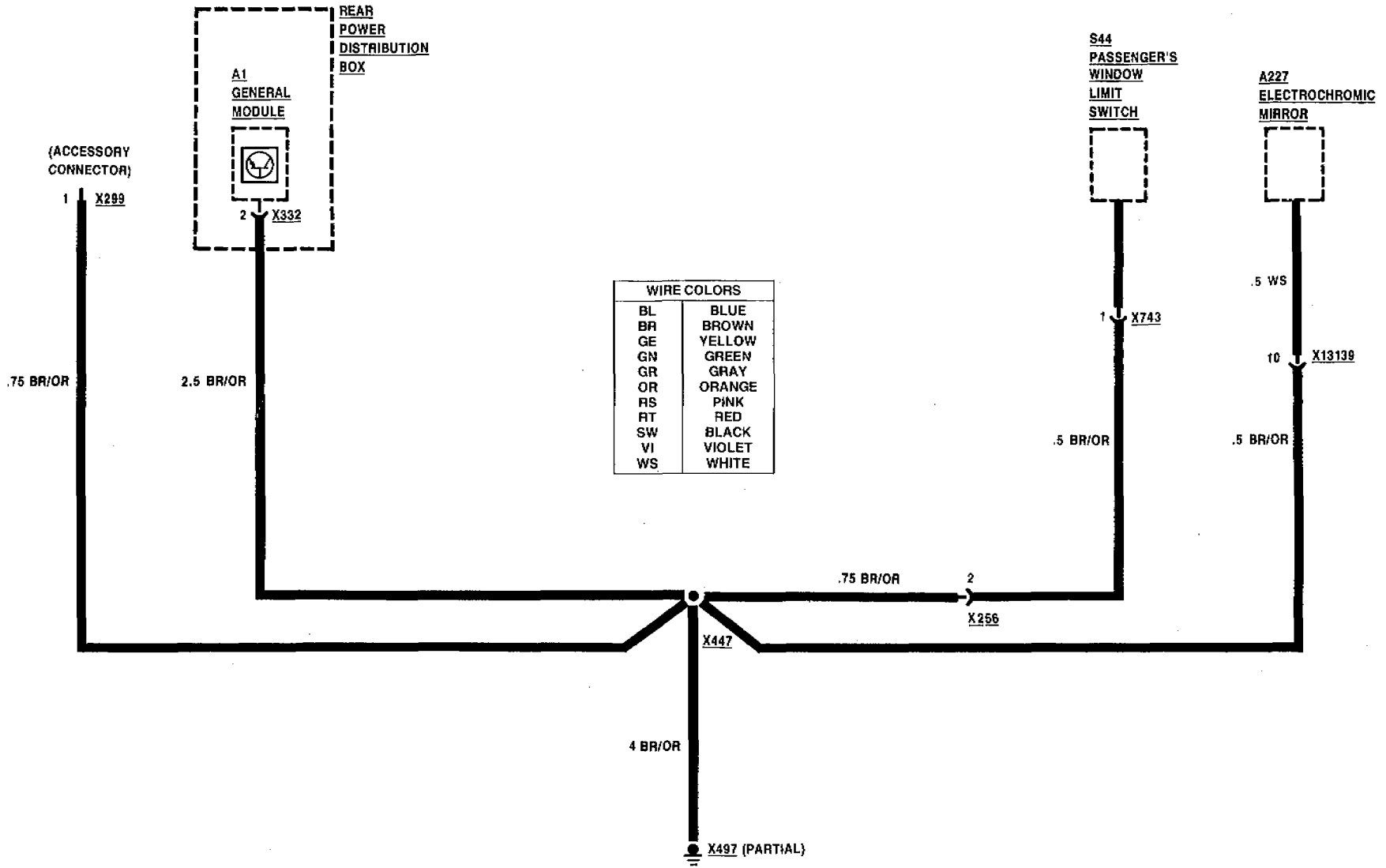


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# GROUND DISTRIBUTION

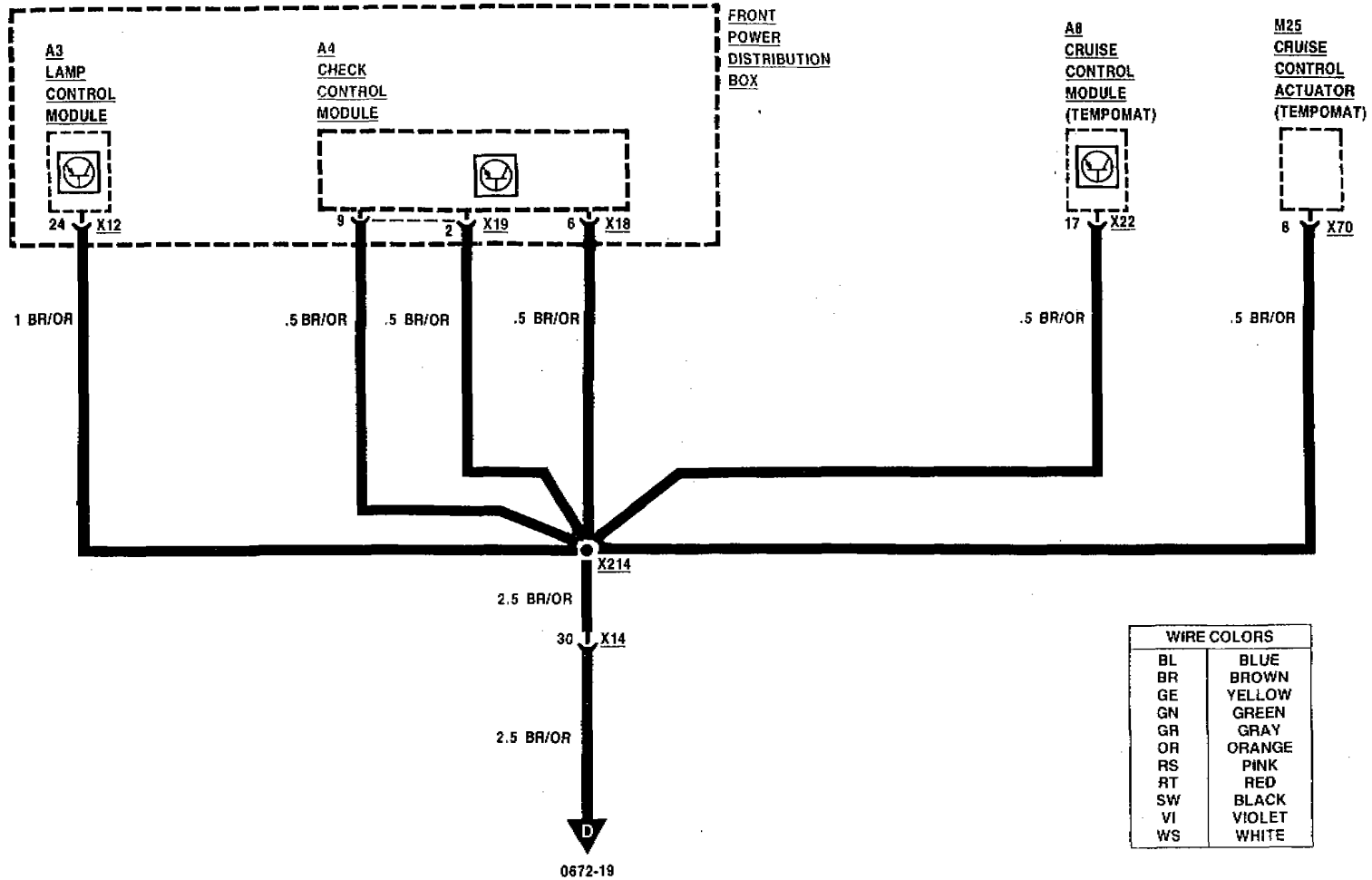
## GROUND X497





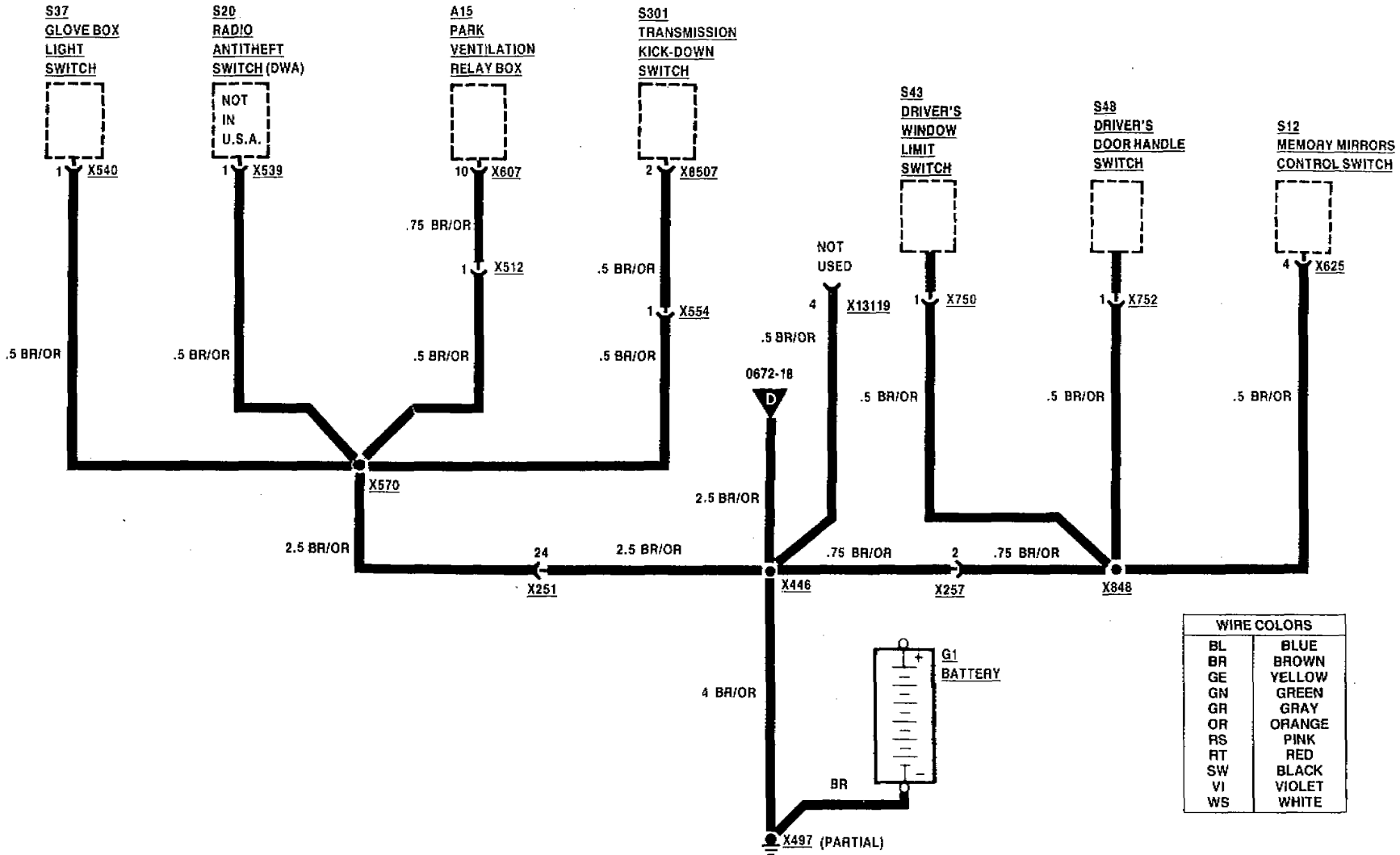
# GROUND DISTRIBUTION

## GROUND X497





# GROUND DISTRIBUTION GROUND X497

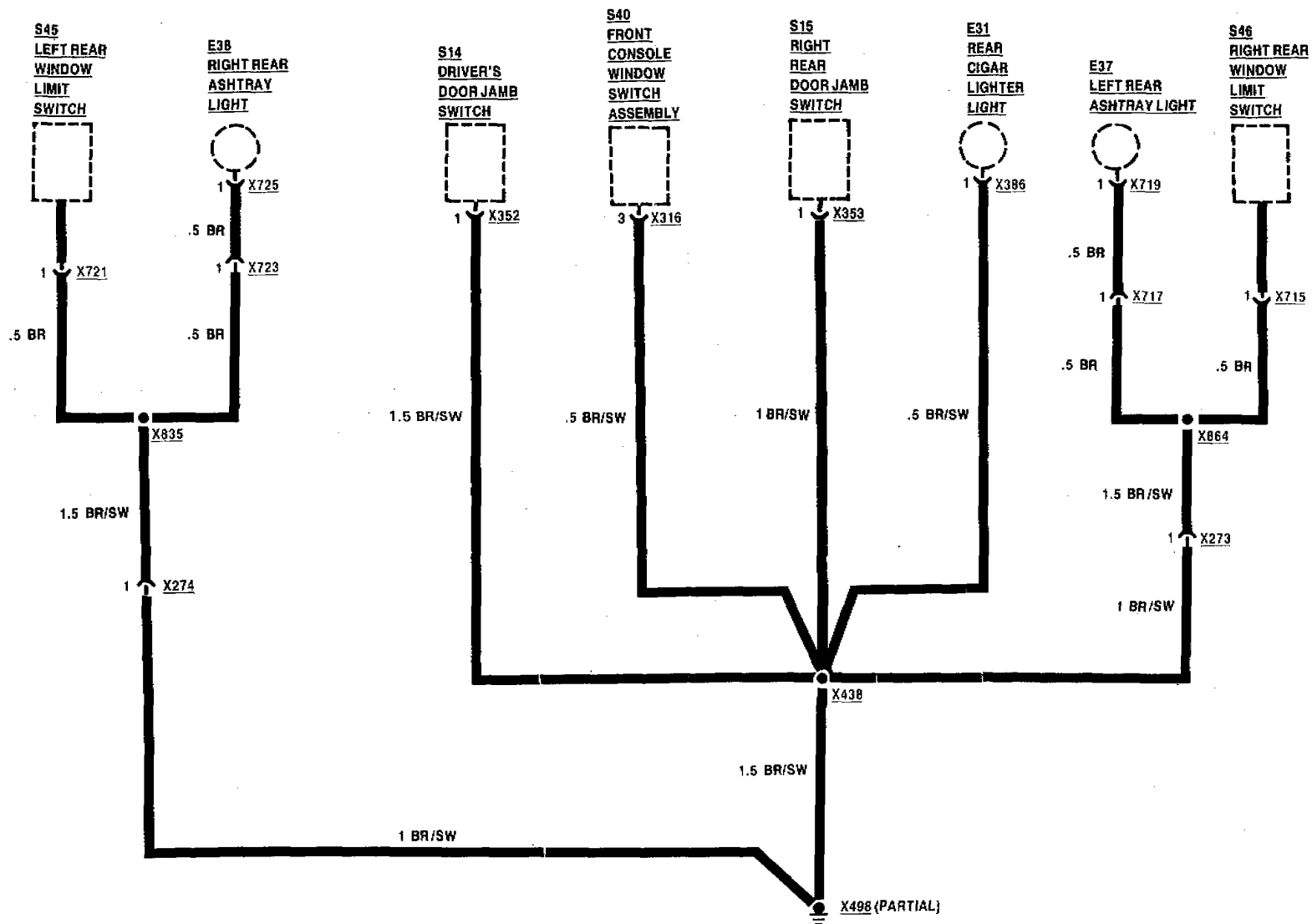


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



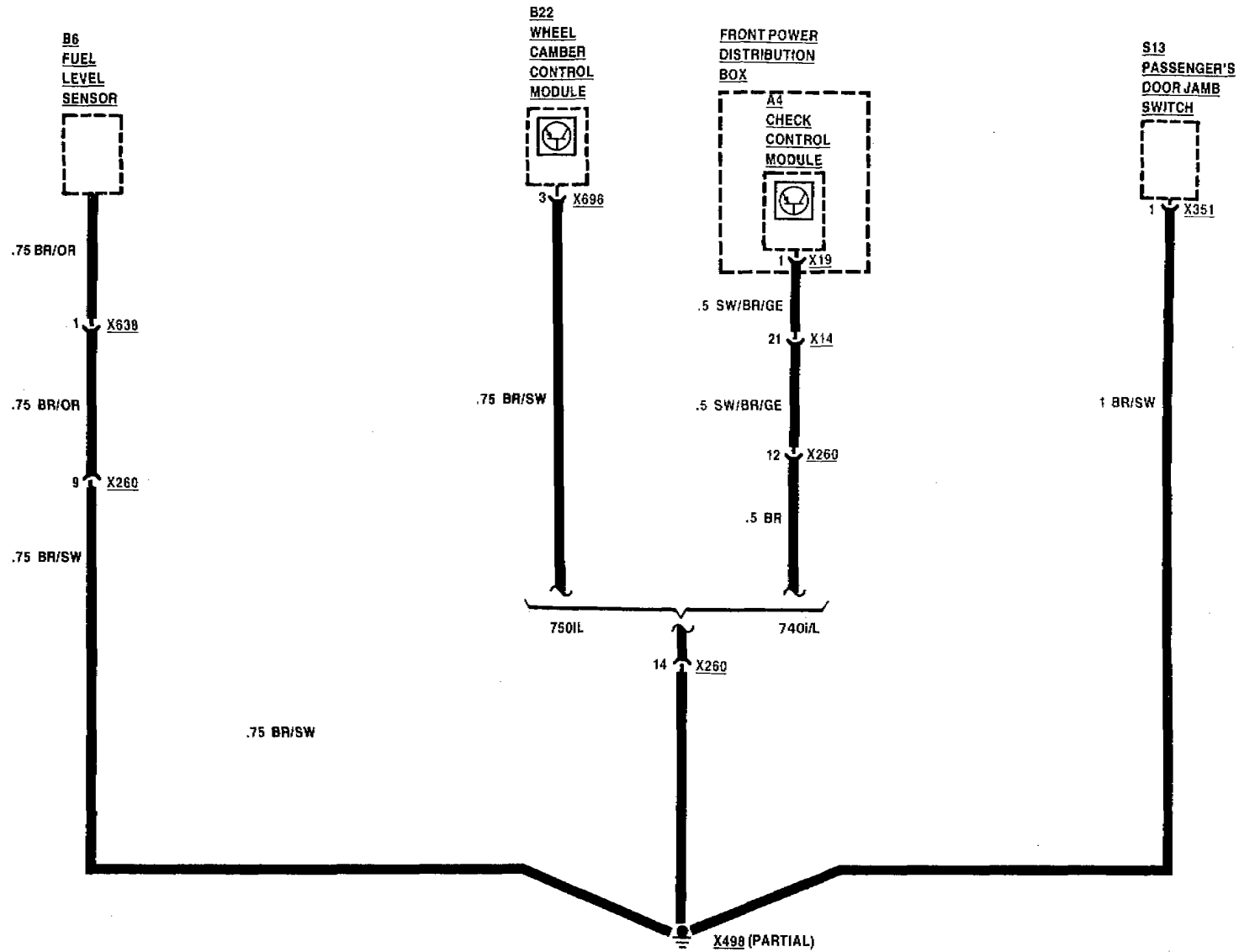


# GROUND DISTRIBUTION GROUND X498





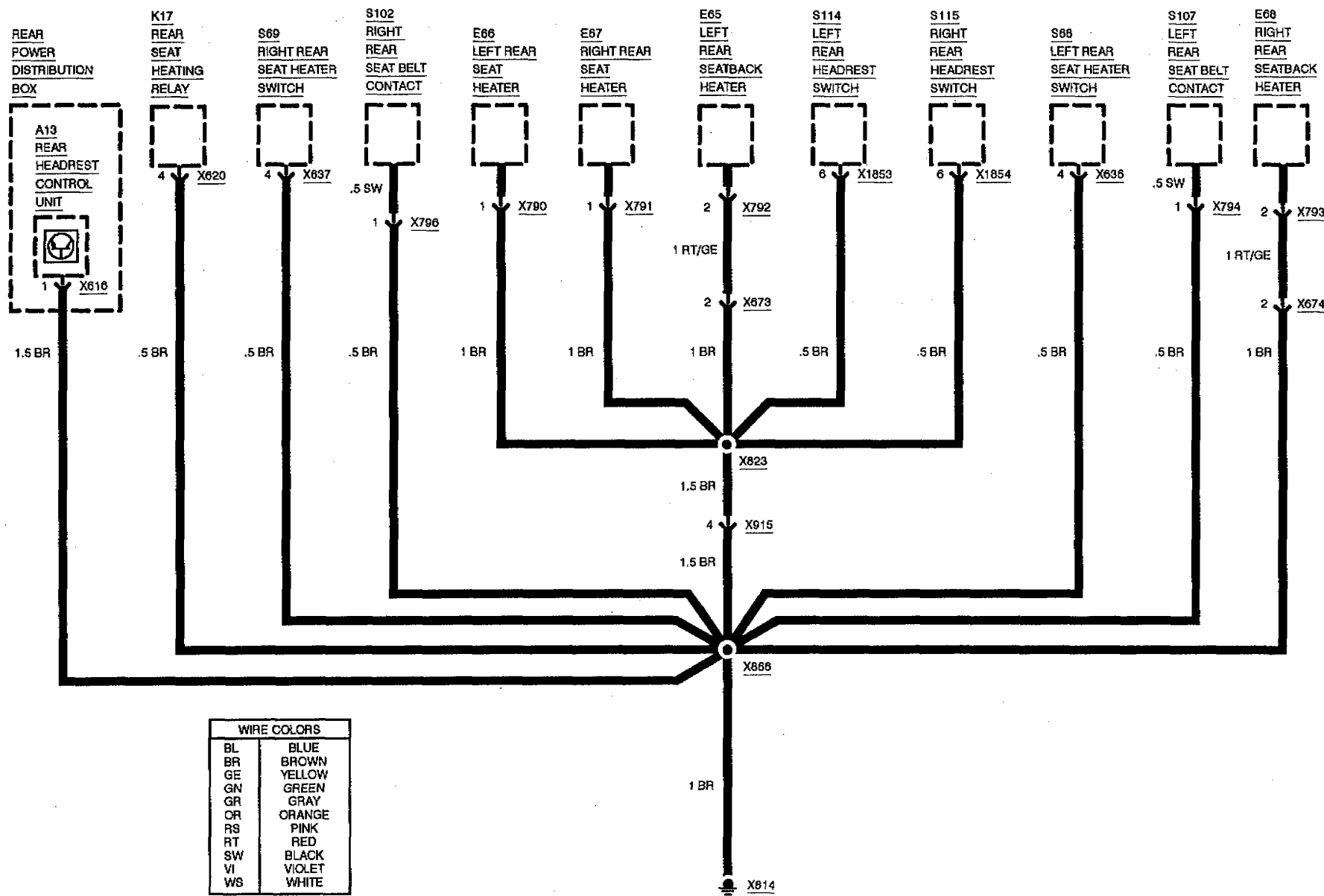
# GROUND DISTRIBUTION GROUND X498





# GROUND DISTRIBUTION

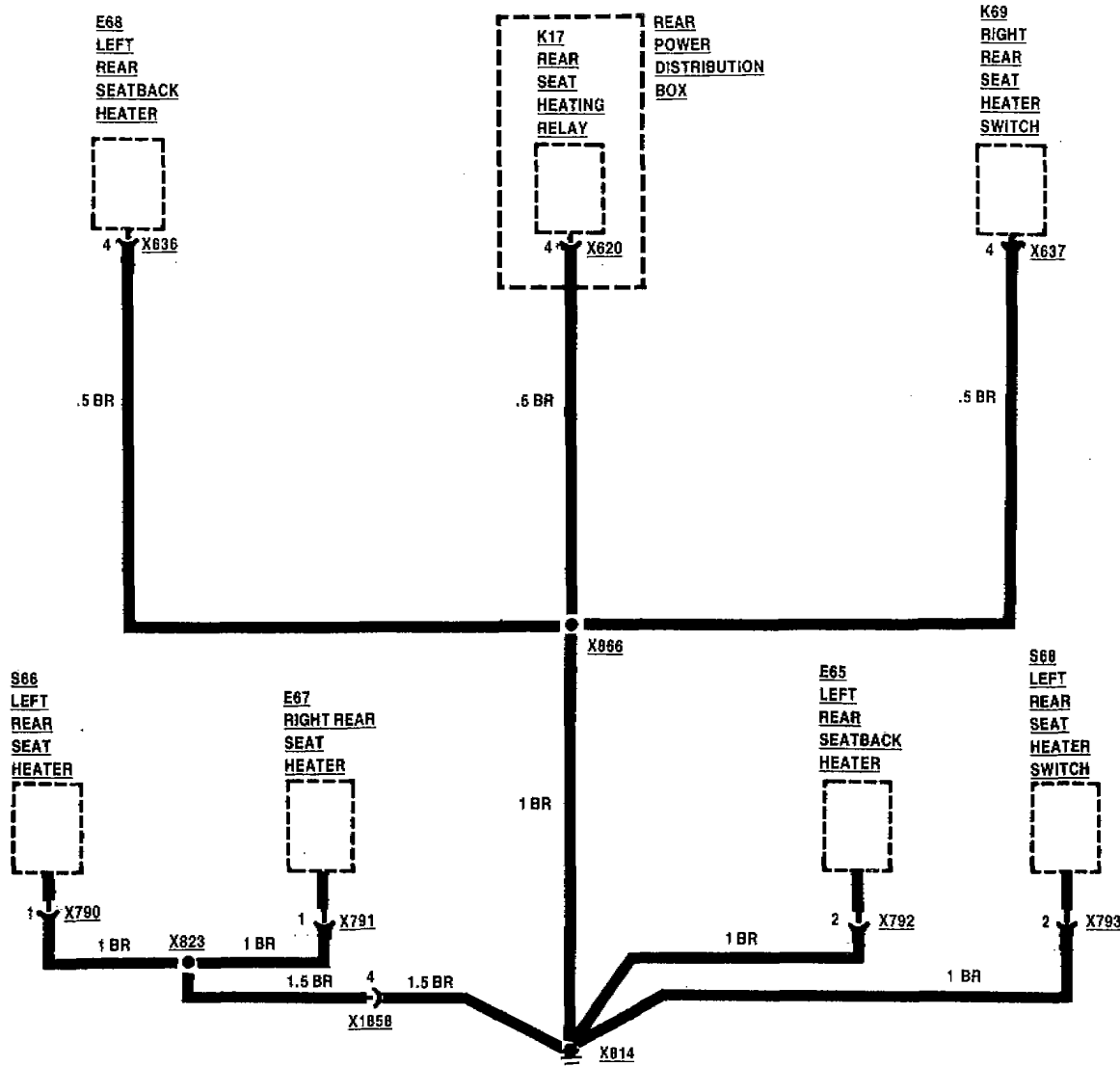
## GROUND X814, WITHOUT POWER REAR SEAT, WITH REAR HEADREST





# GROUND DISTRIBUTION

## GROUND X814 WITHOUT POWER REAR SEAT

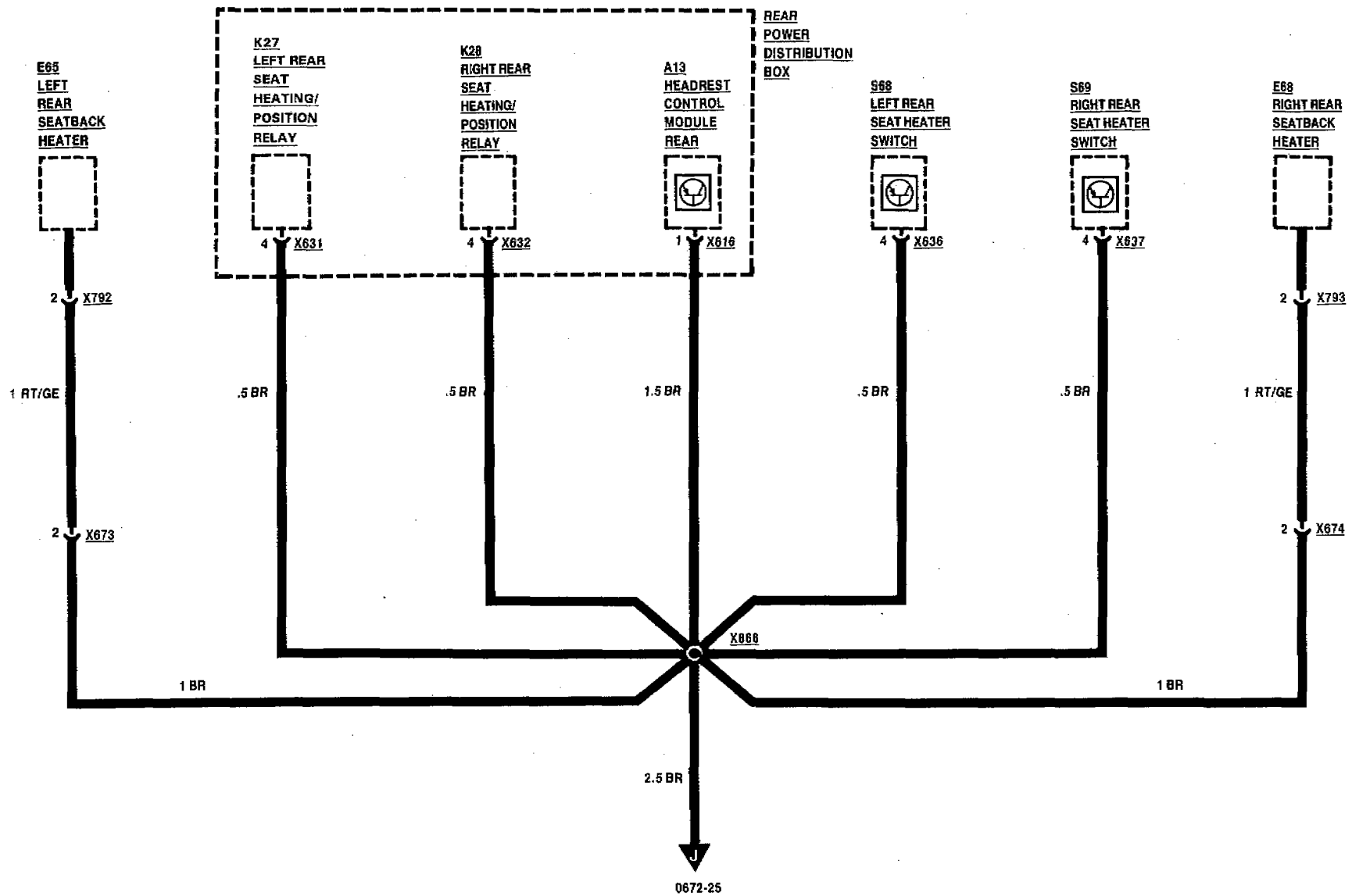


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# GROUND DISTRIBUTION

## GROUND X814 - WITH POWER REAR SEAT

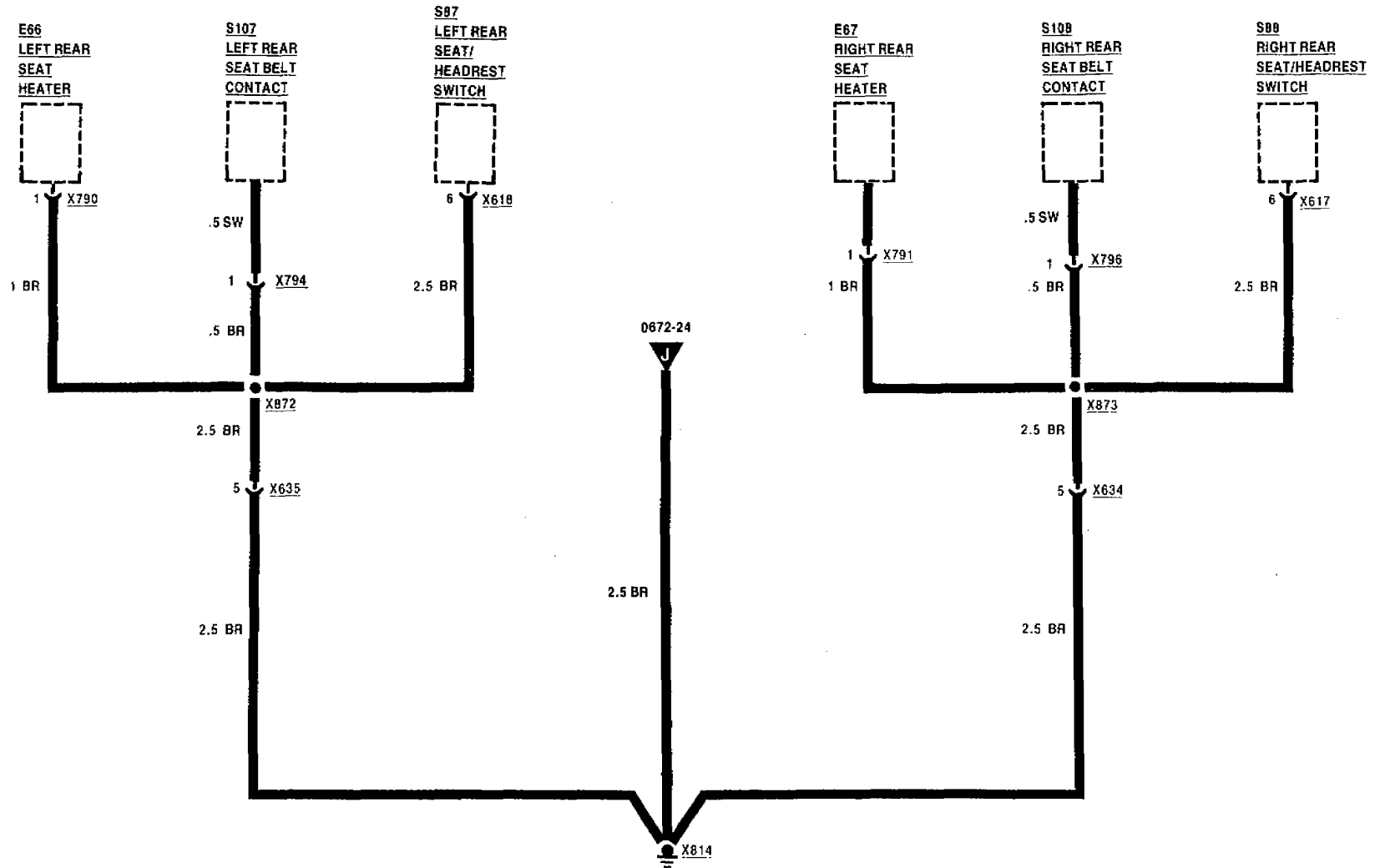




# GROUND DISTRIBUTION

## GROUND X814

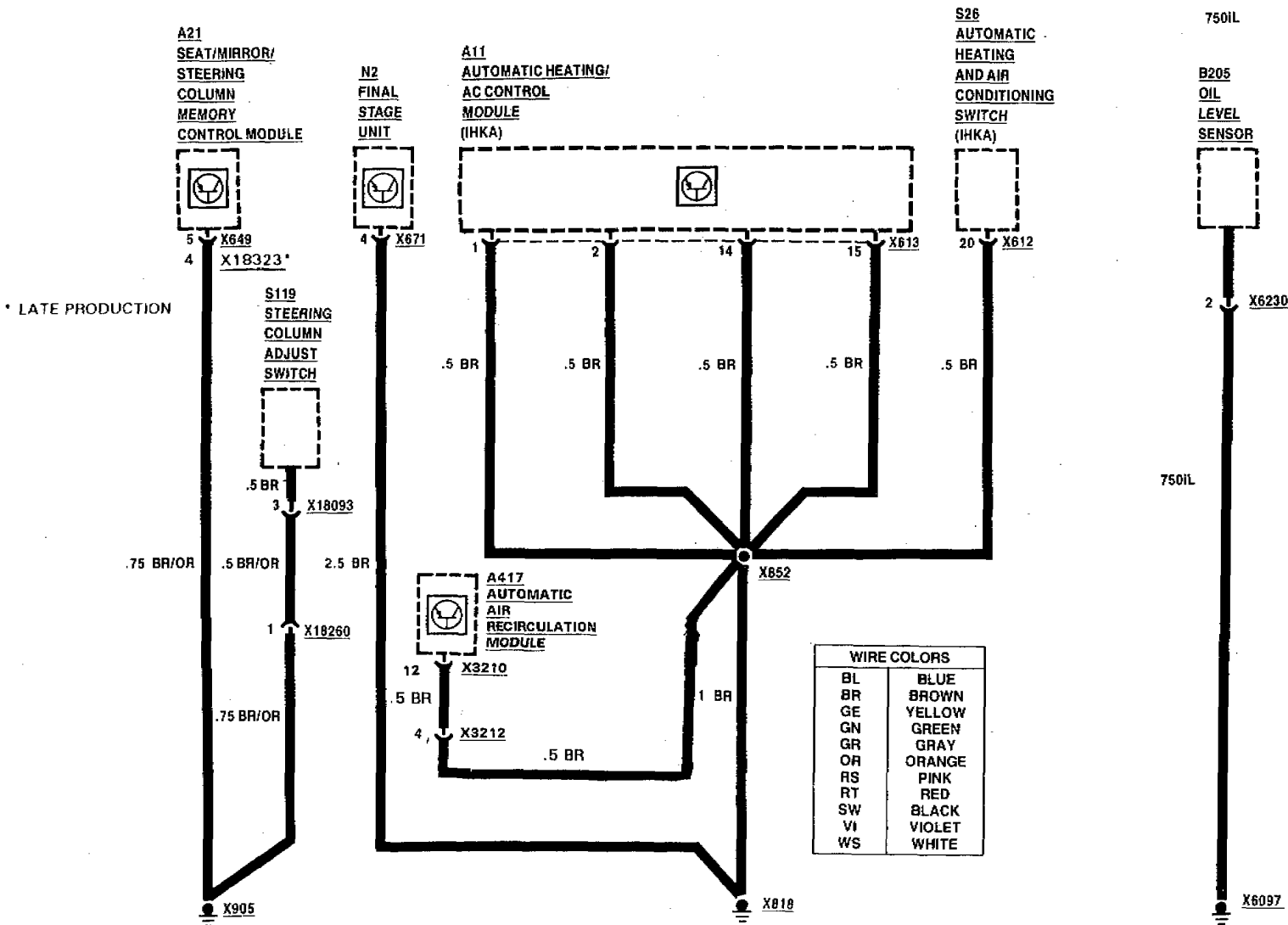
750iL





# GROUND DISTRIBUTION

## GROUNDS X818, X905, X6097

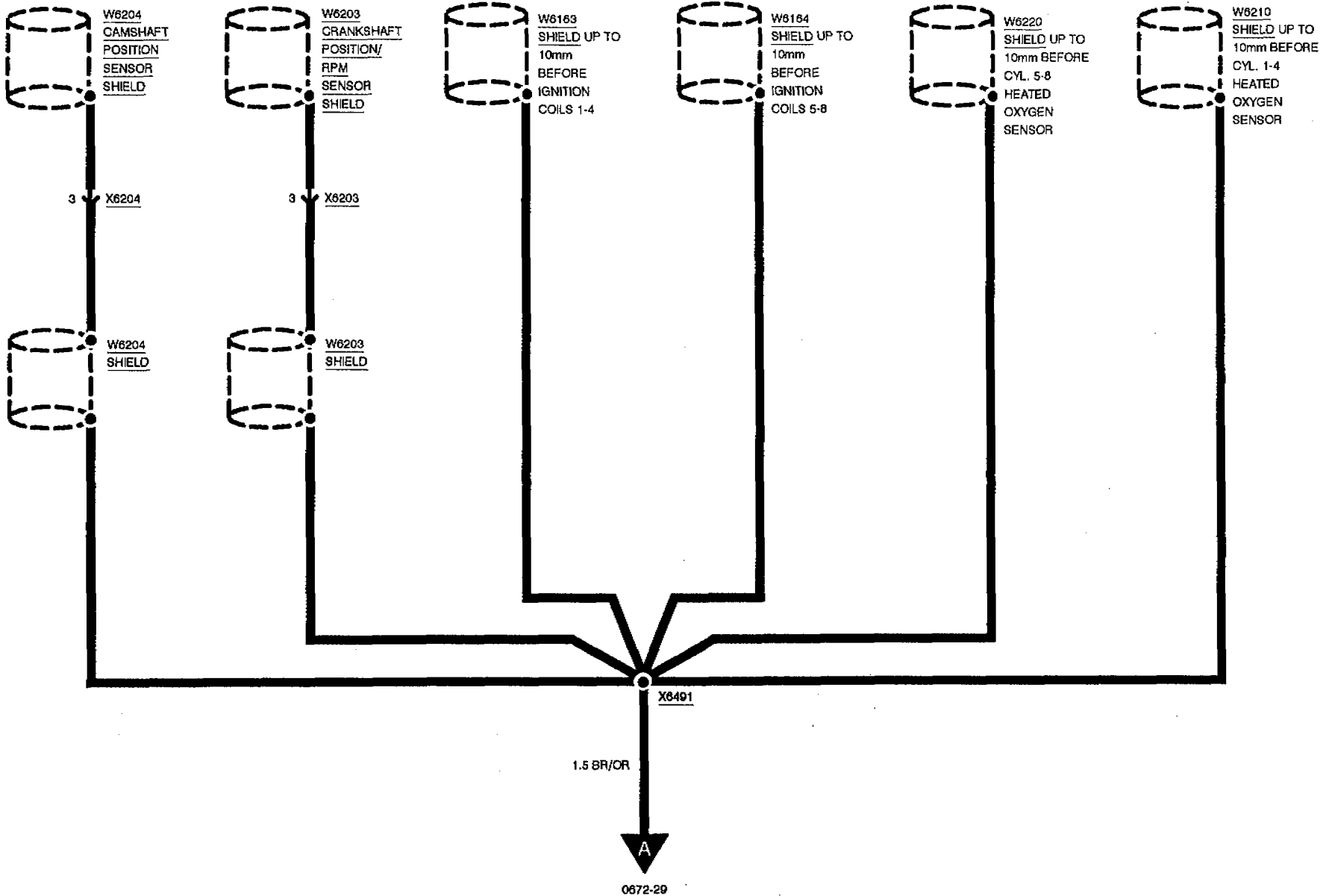




# GROUND DISTRIBUTION

740i/L

## GROUND X6452



0672-20

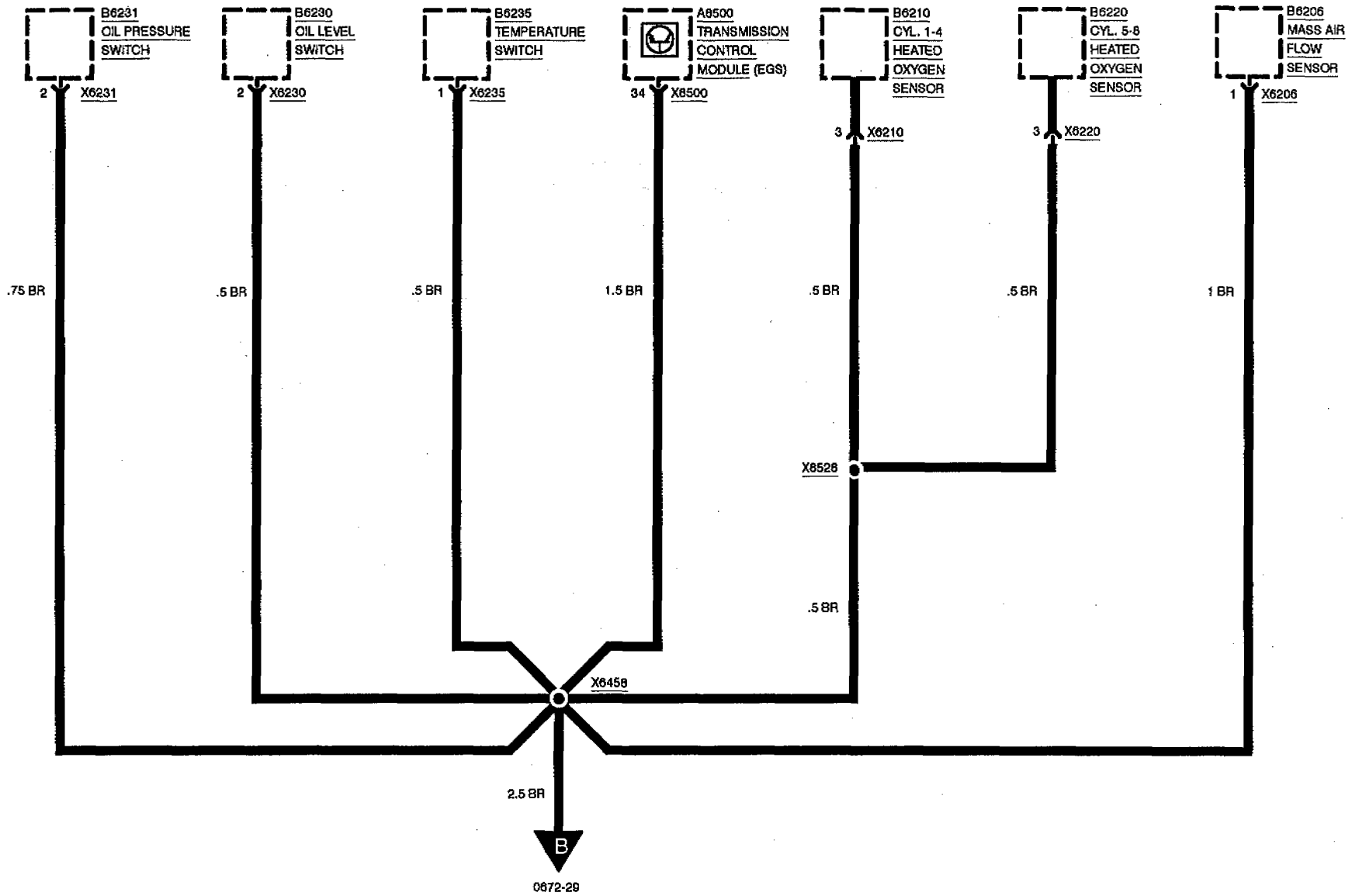




# GROUND DISTRIBUTION

740i/L

## GROUND X6452

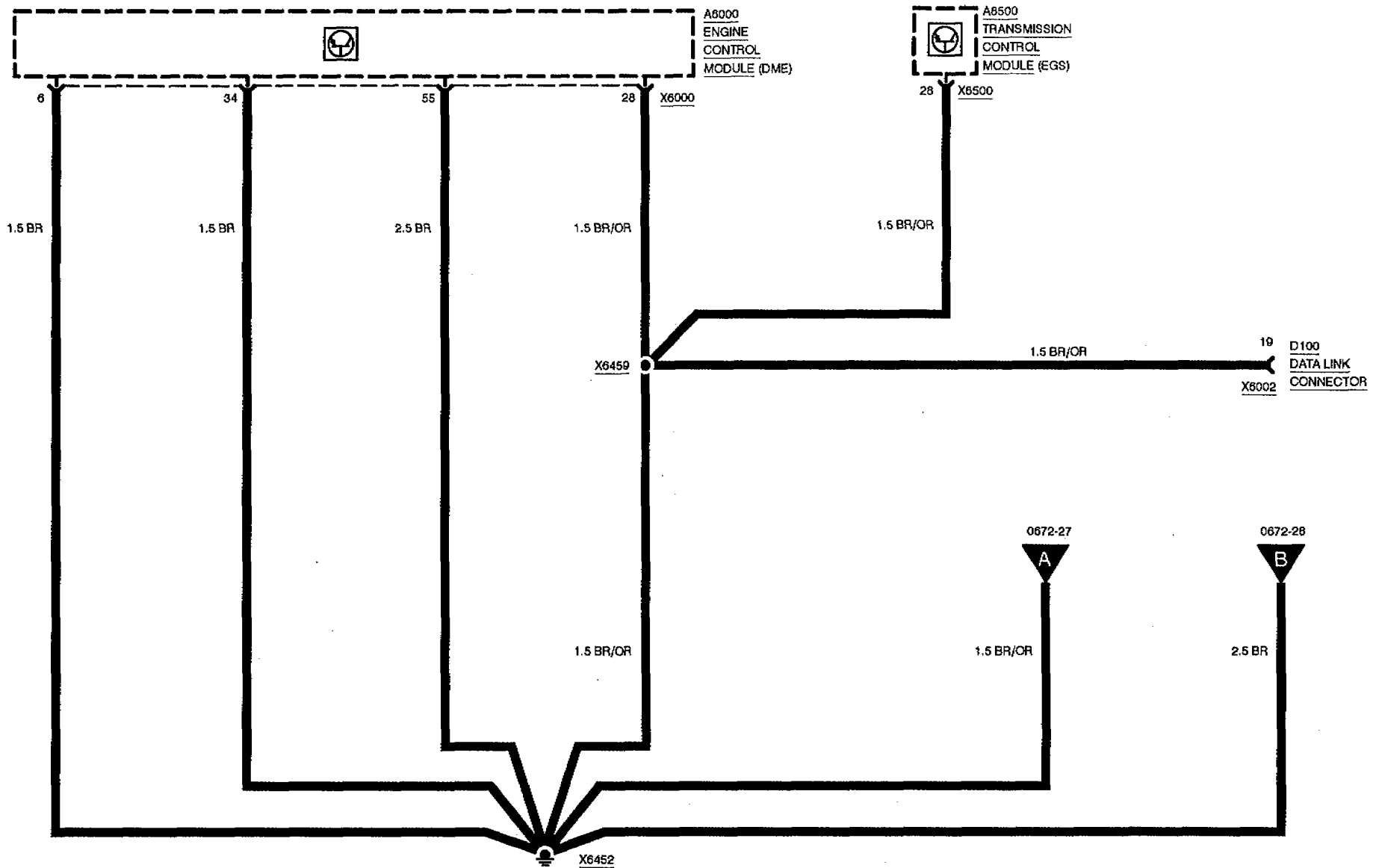




# GROUND DISTRIBUTION

740i/L

## GROUND X6452

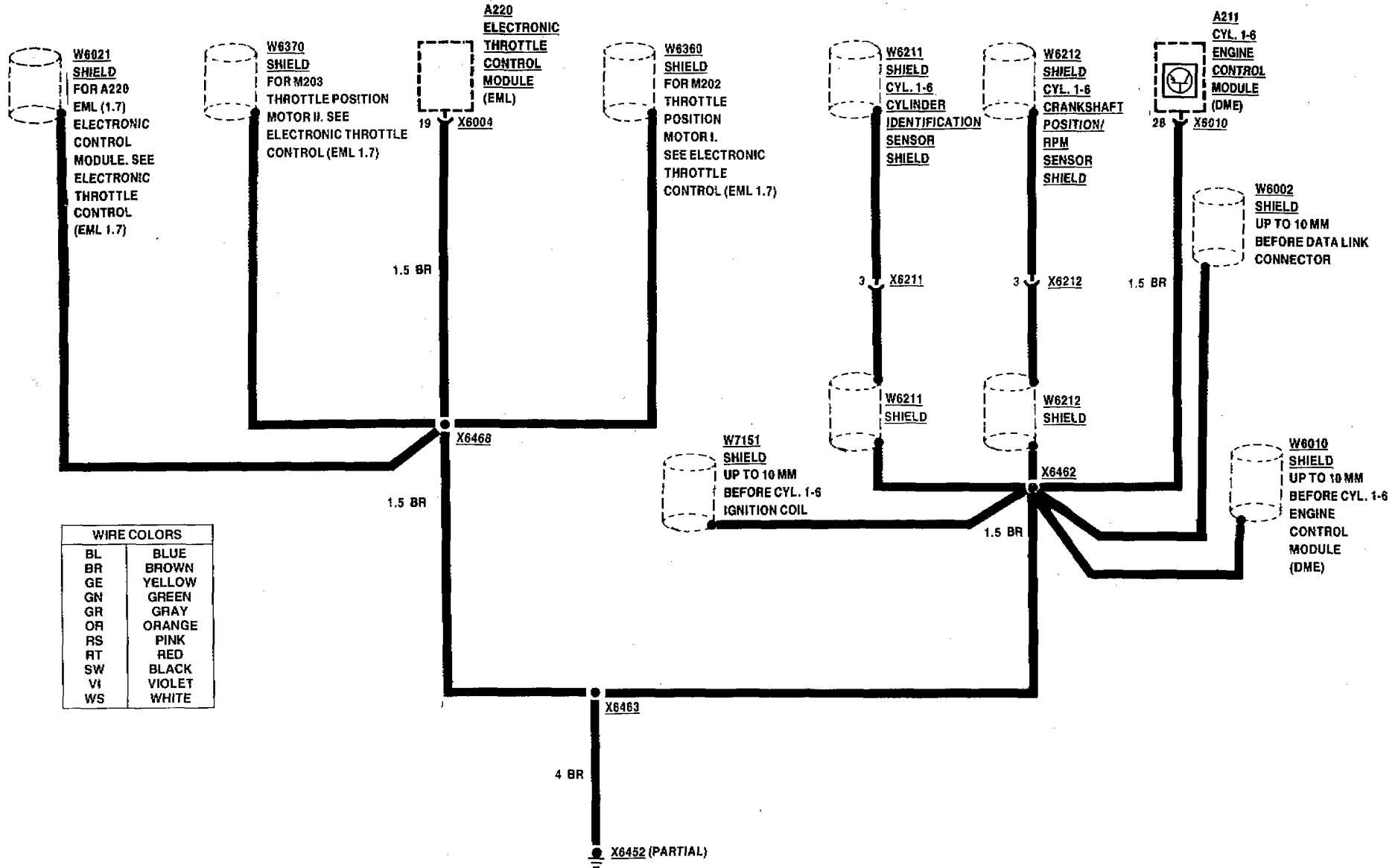




# GROUND DISTRIBUTION

750iL

## GROUND X6452



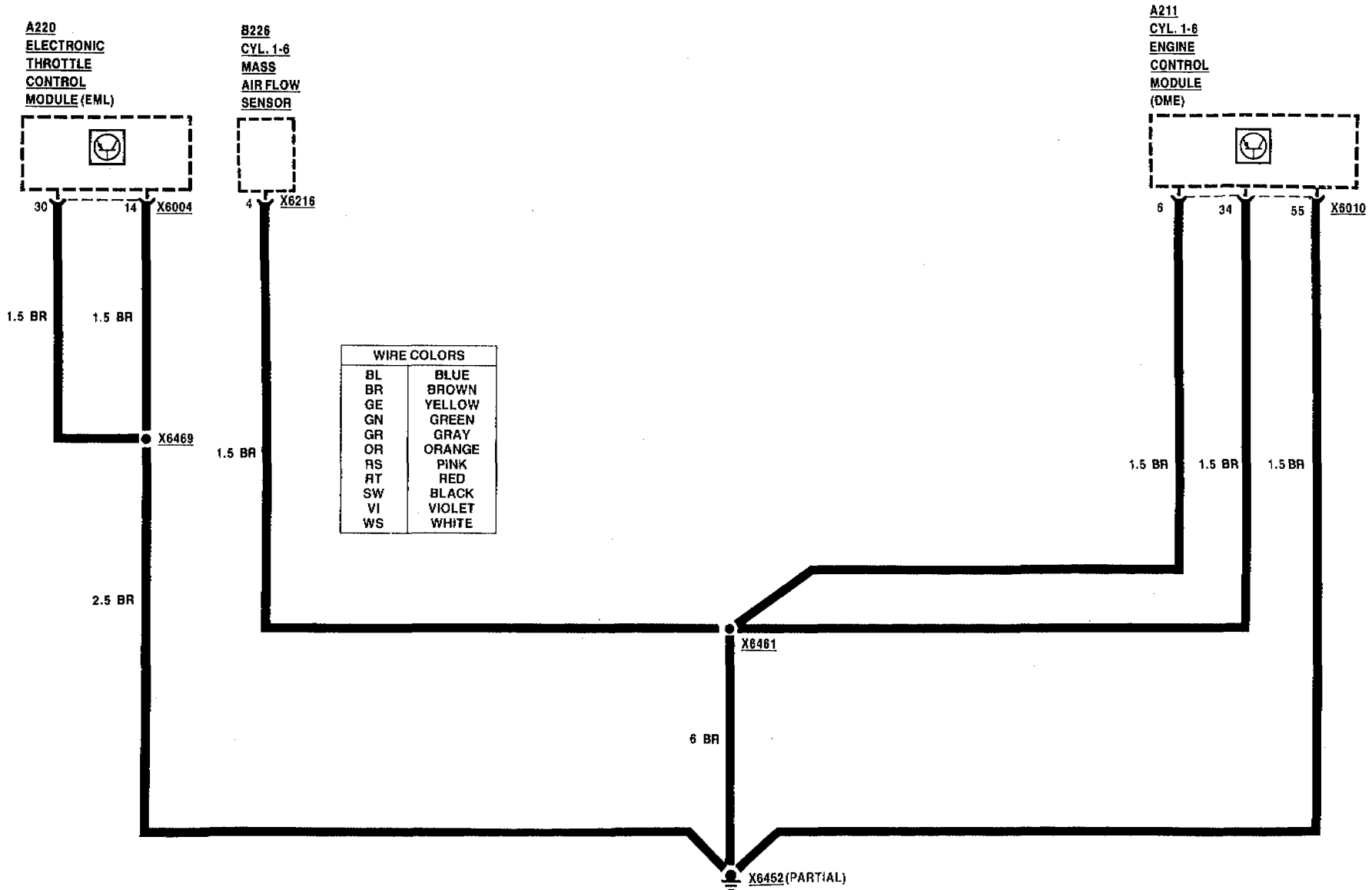
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# GROUND DISTRIBUTION

## GROUND X6452

750iL

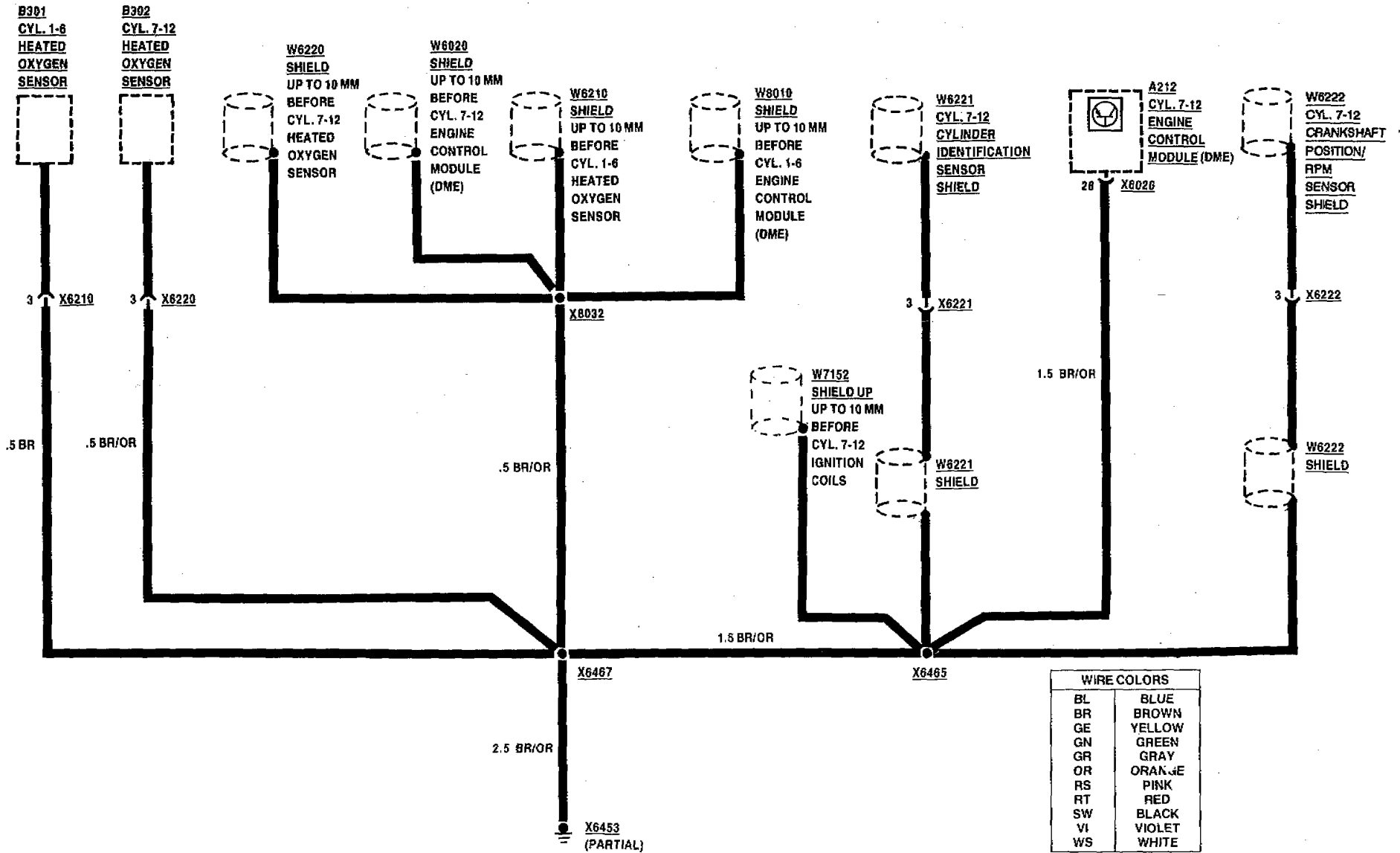




# GROUND DISTRIBUTION

## GROUND X6453

750iL

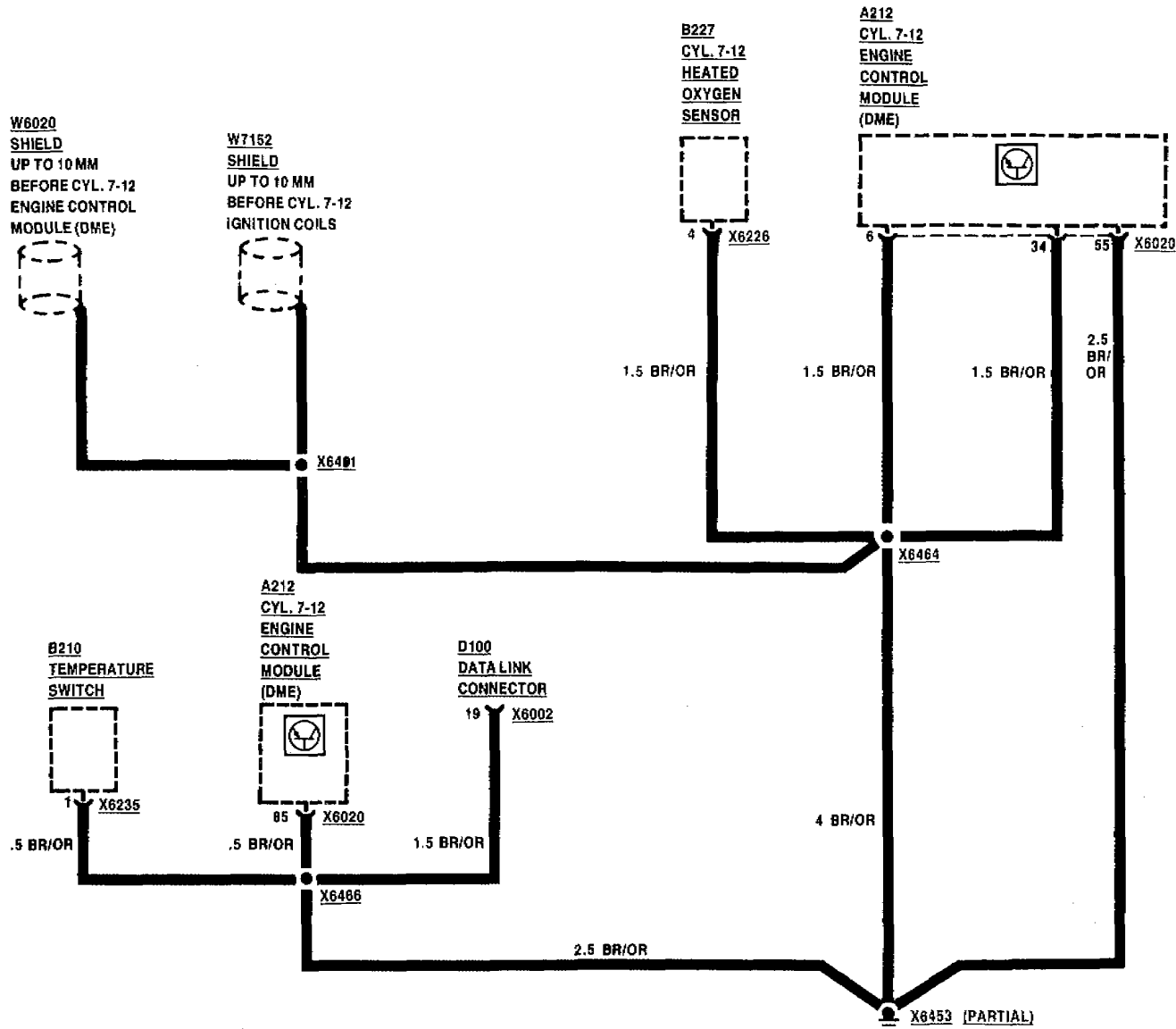




# GROUND DISTRIBUTION

## GROUND X6453

750iL

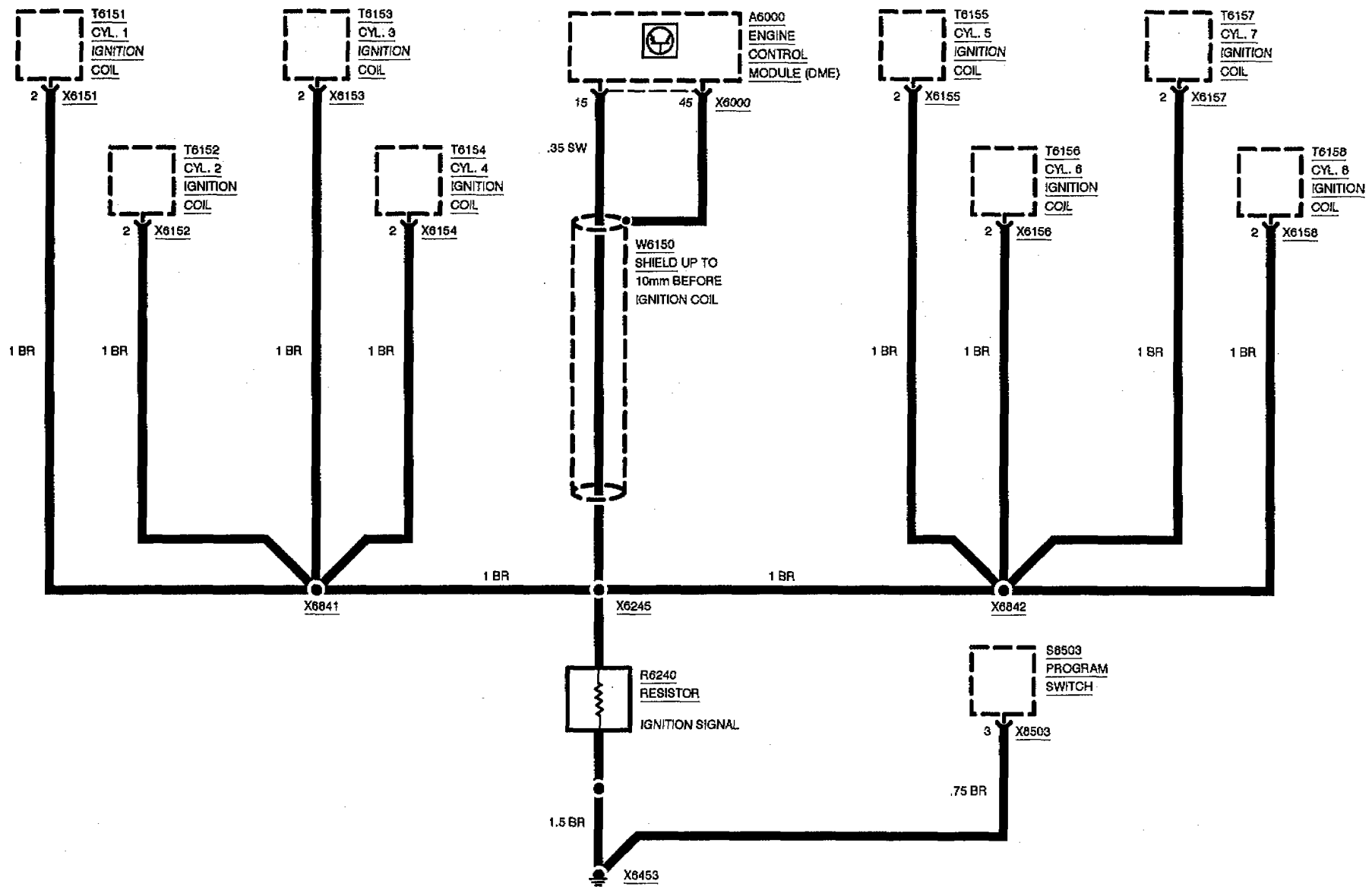




# GROUND DISTRIBUTION

740i/L

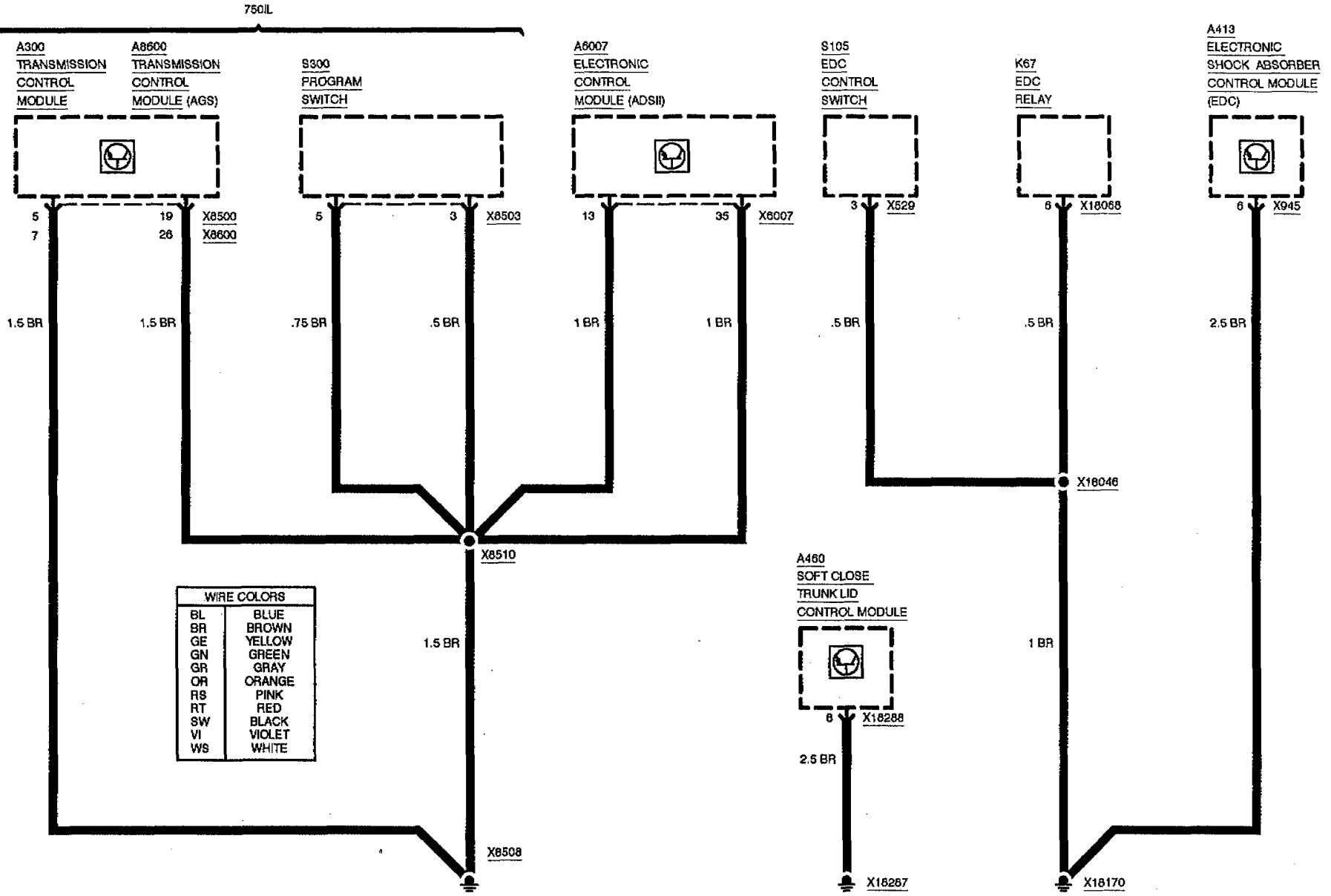
## GROUND X6453





# GROUND DISTRIBUTION

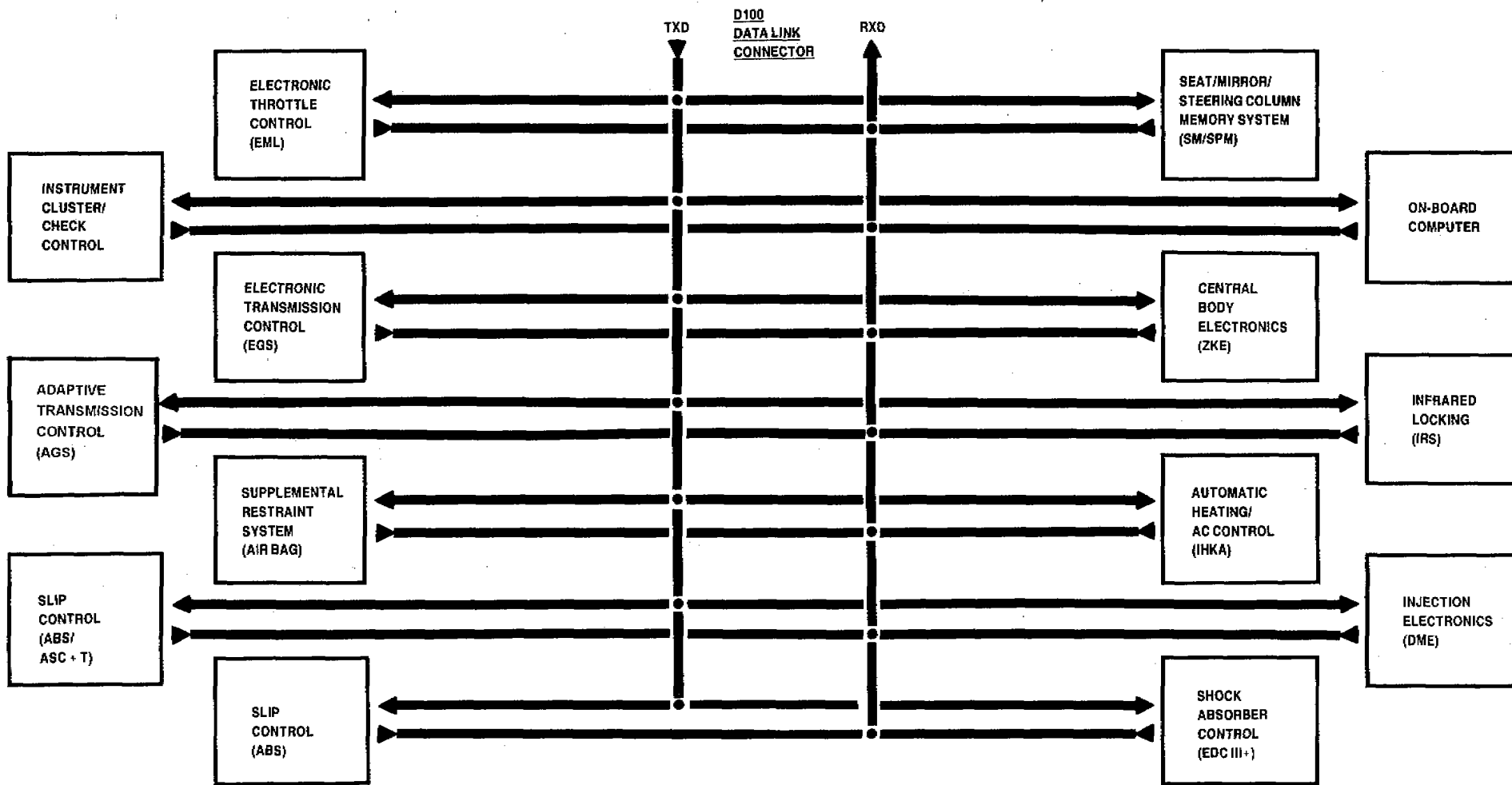
## GROUND X8508, X18170, X18287







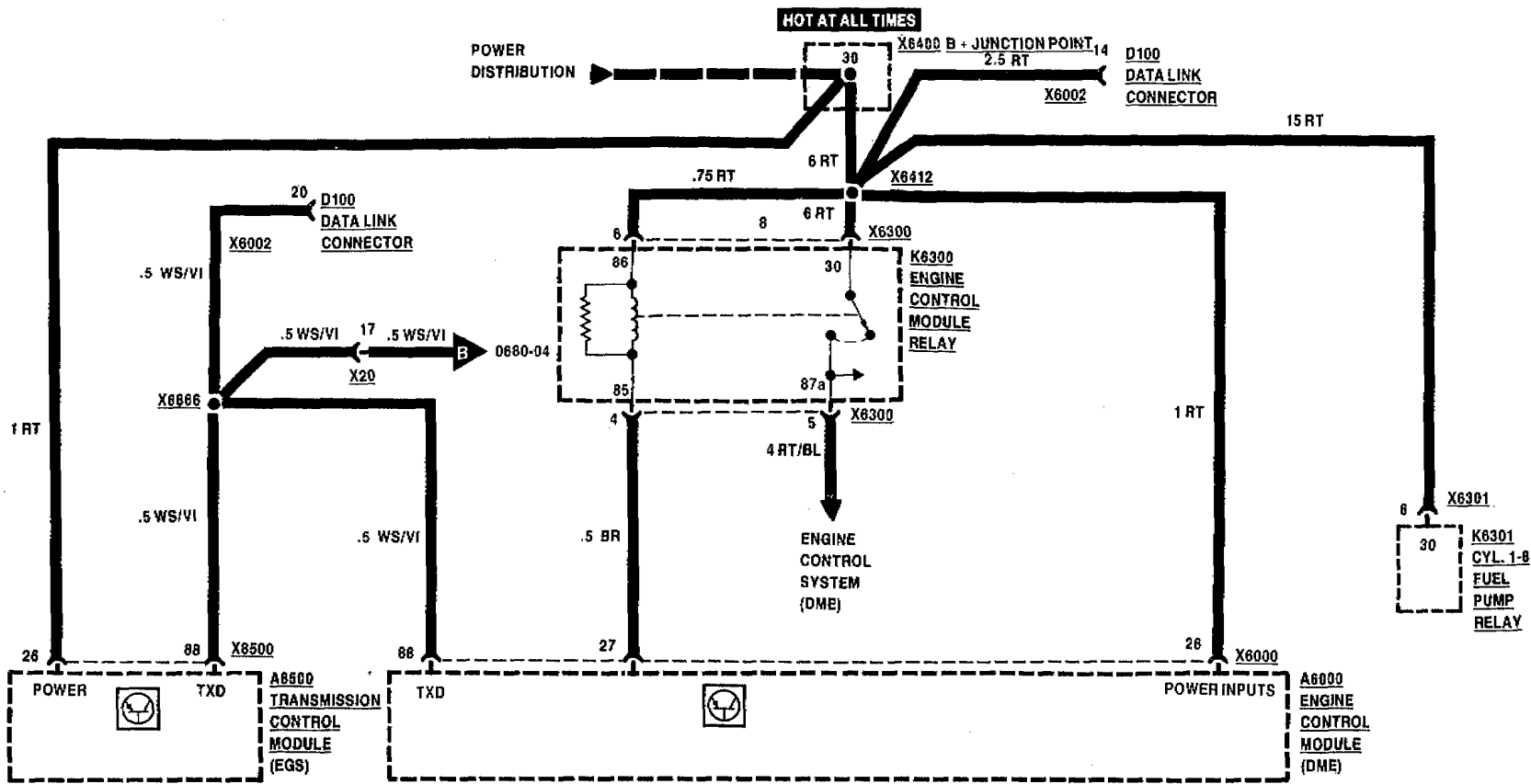
# DATA LINK BLOCK DIAGRAM





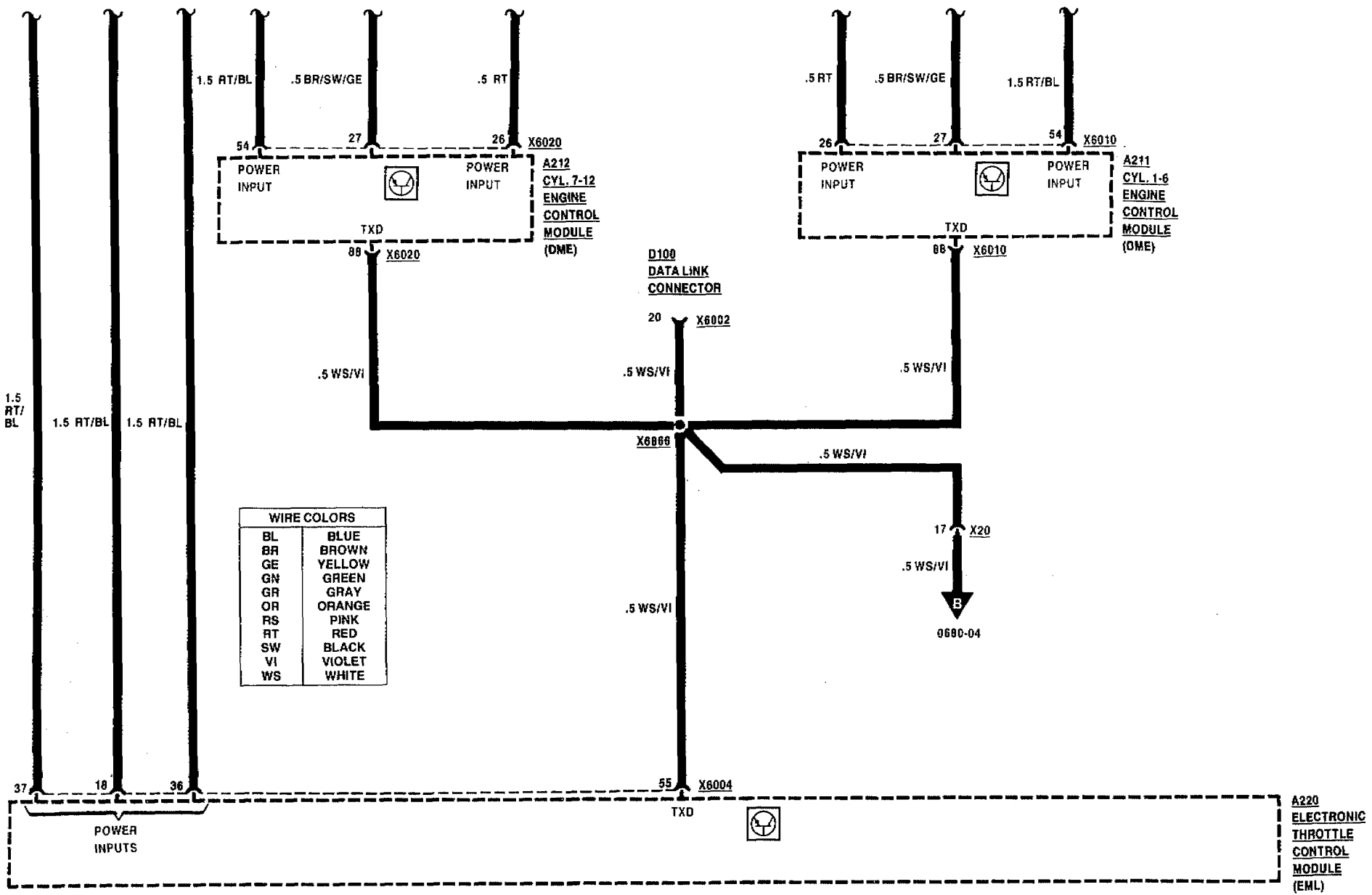
# DATA LINK TXD AND POWER

740i/L



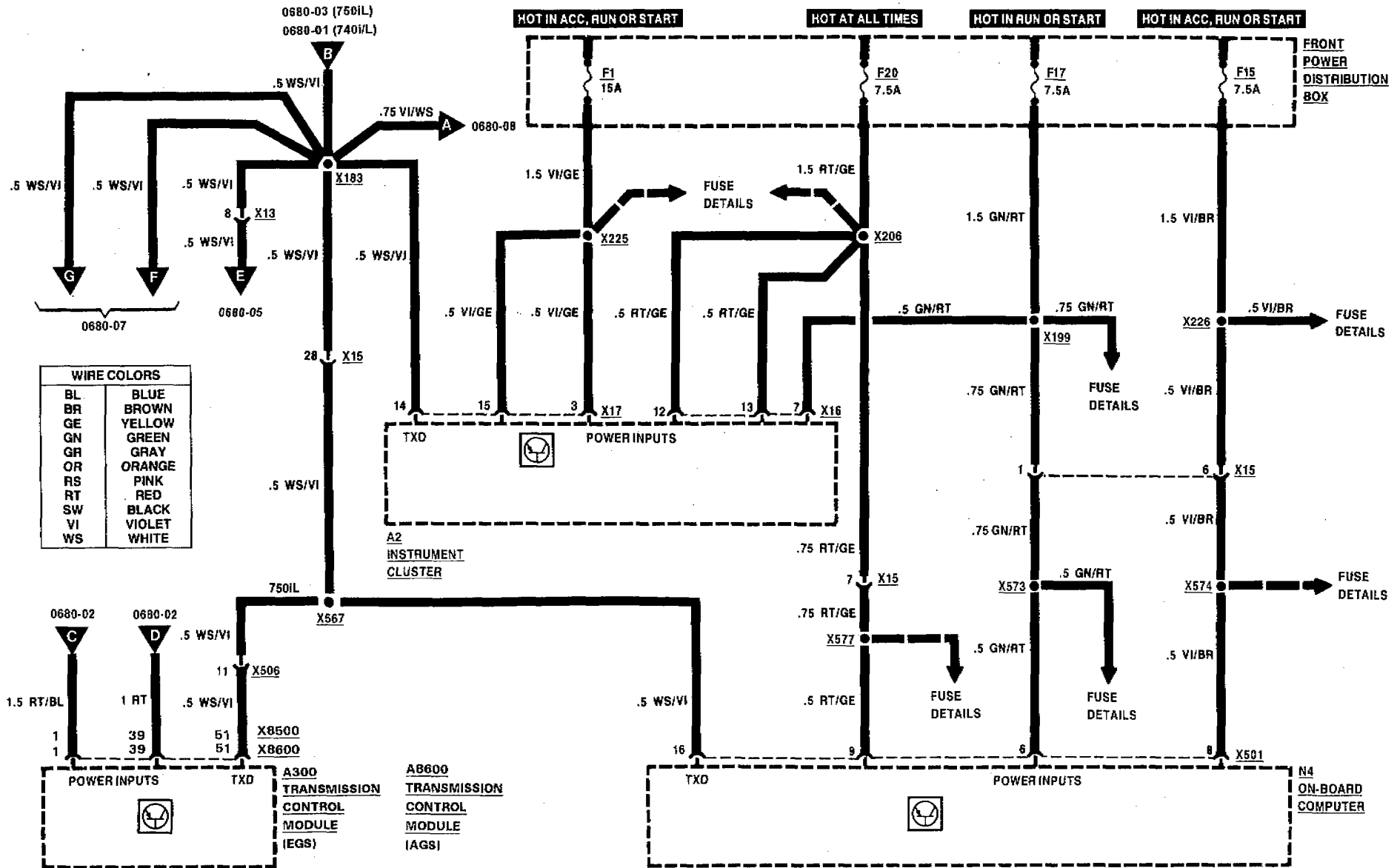
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





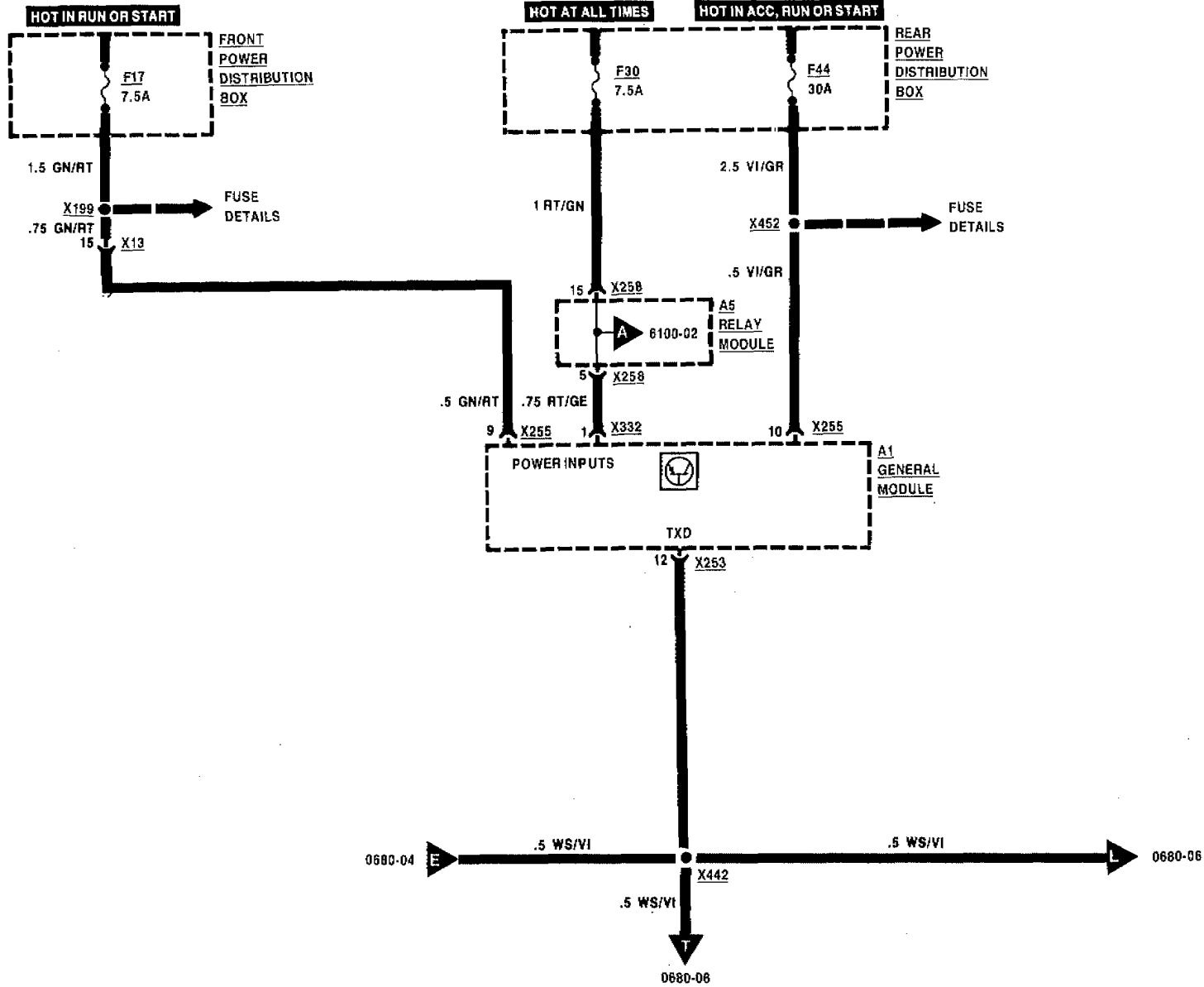


# DATA LINK TXD AND POWER



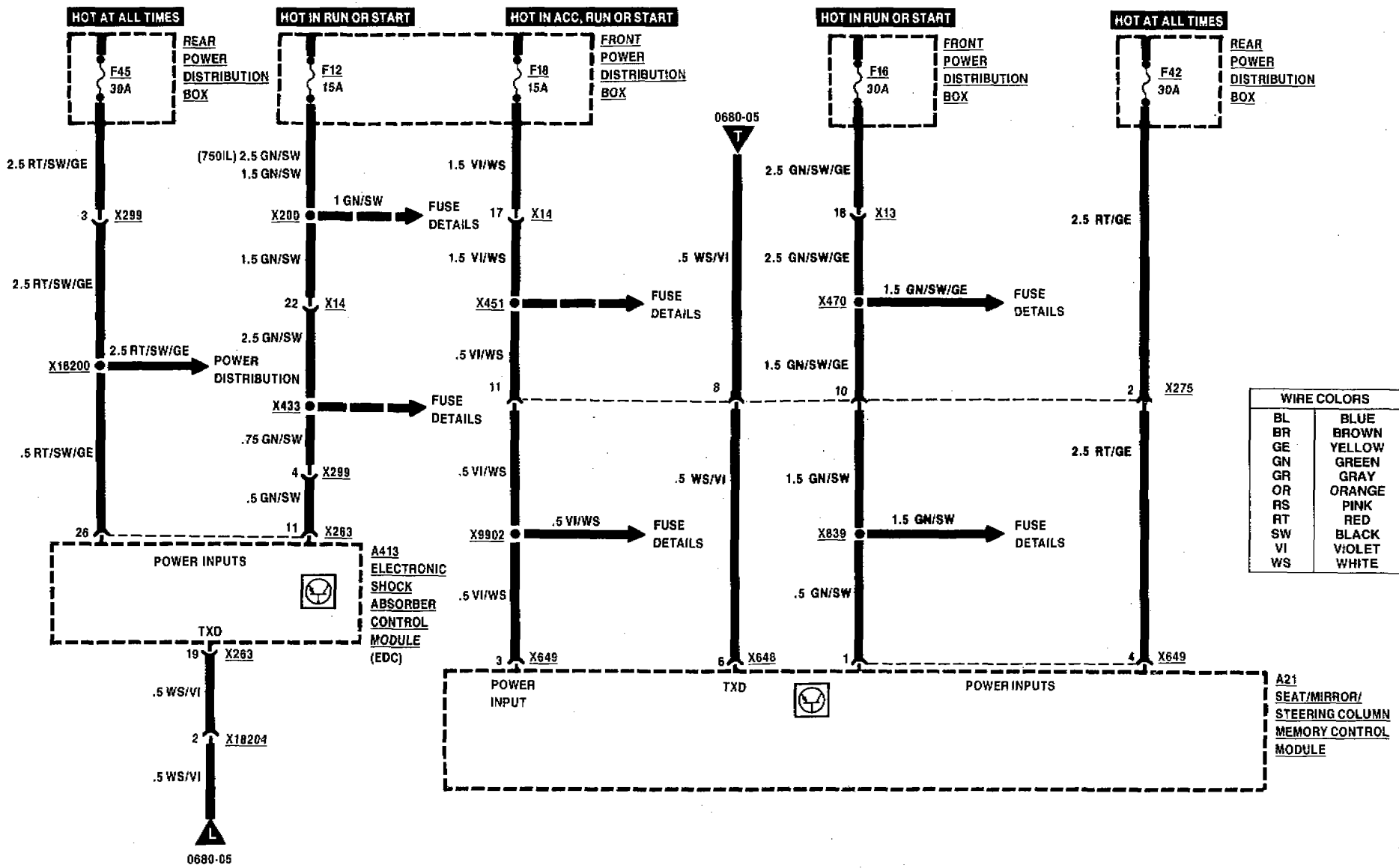


# DATA LINK TXD AND POWER





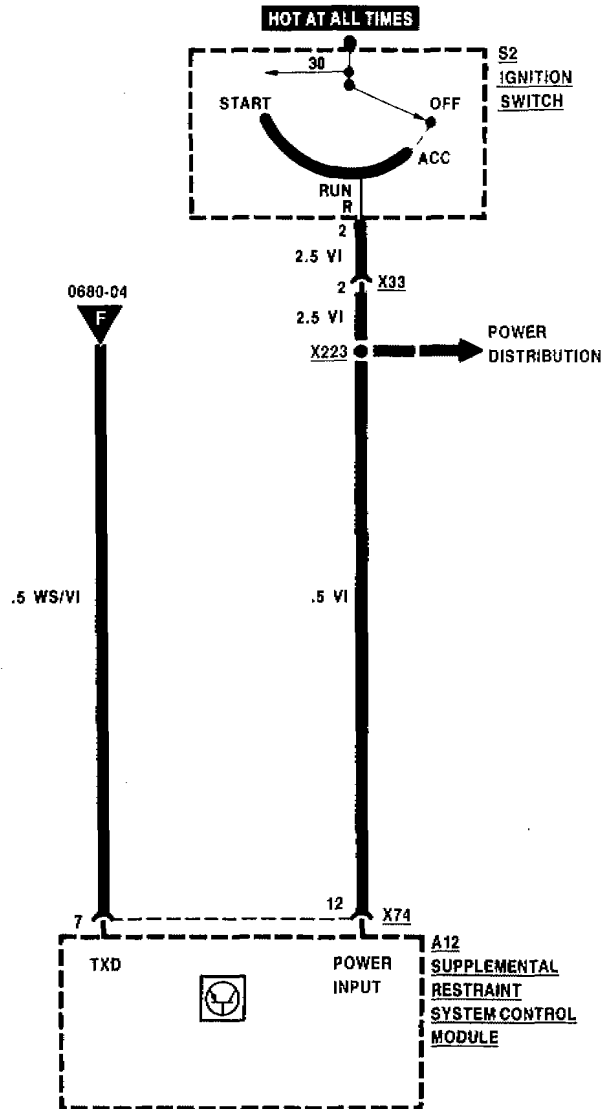
# DATA LINK TXD AND POWER



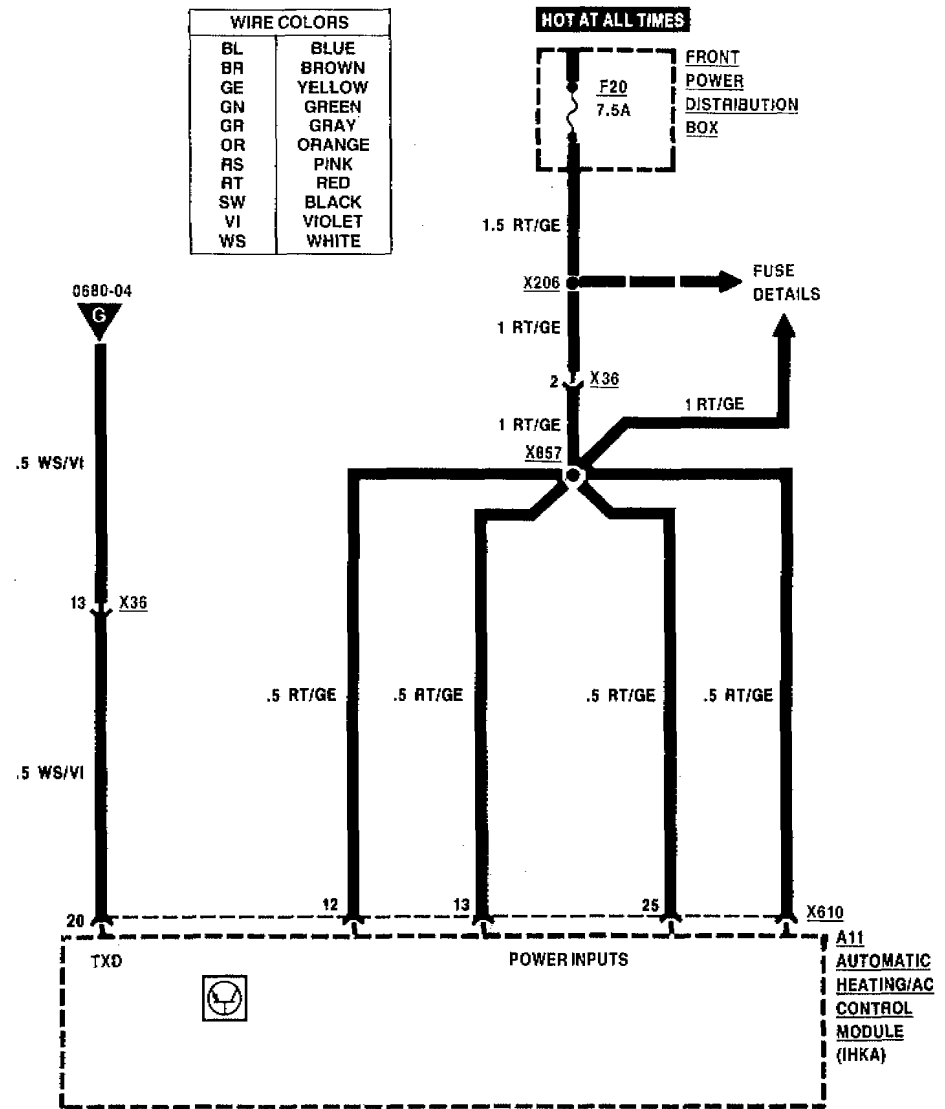


# DATA LINK

## TXD AND POWER



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

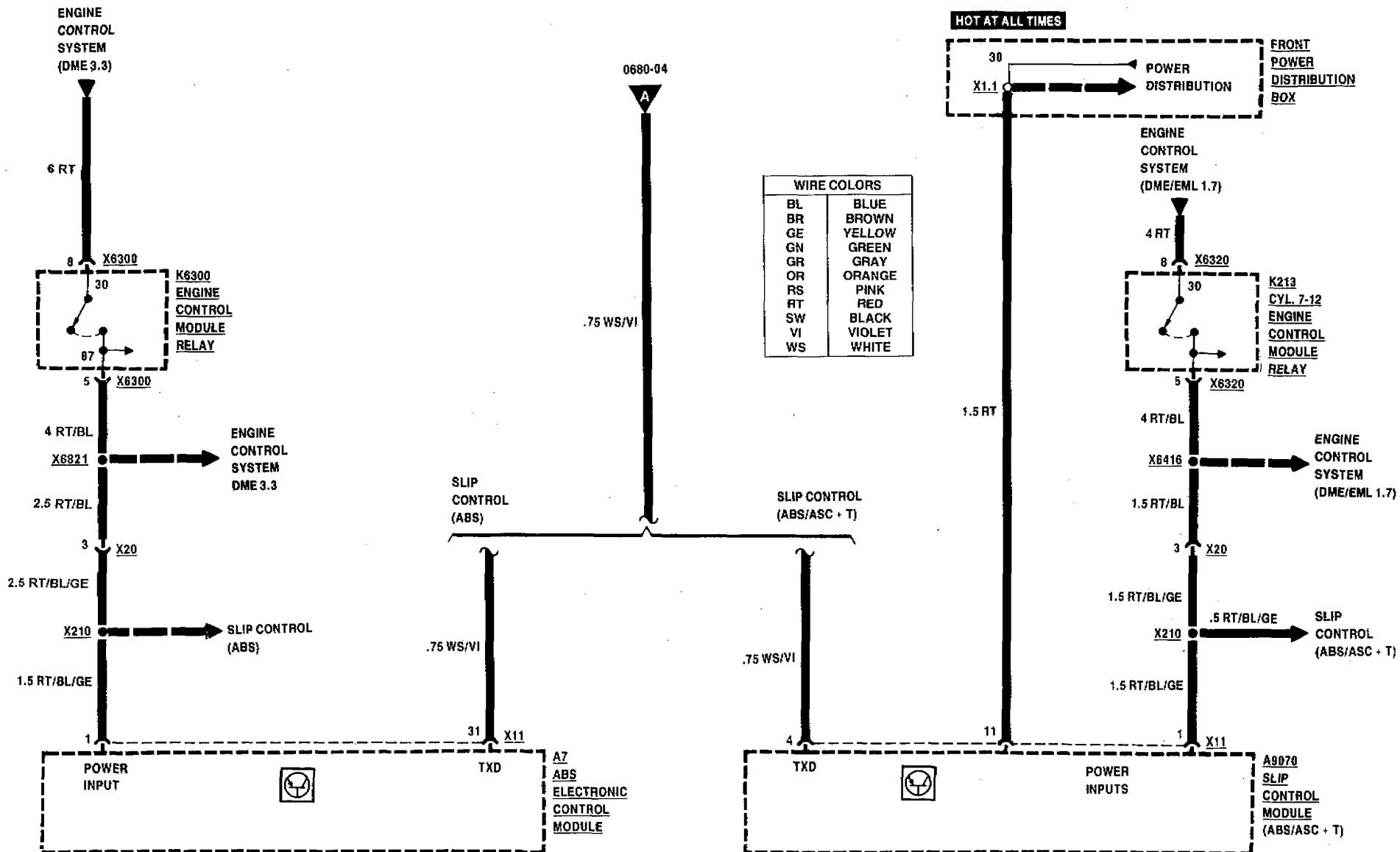






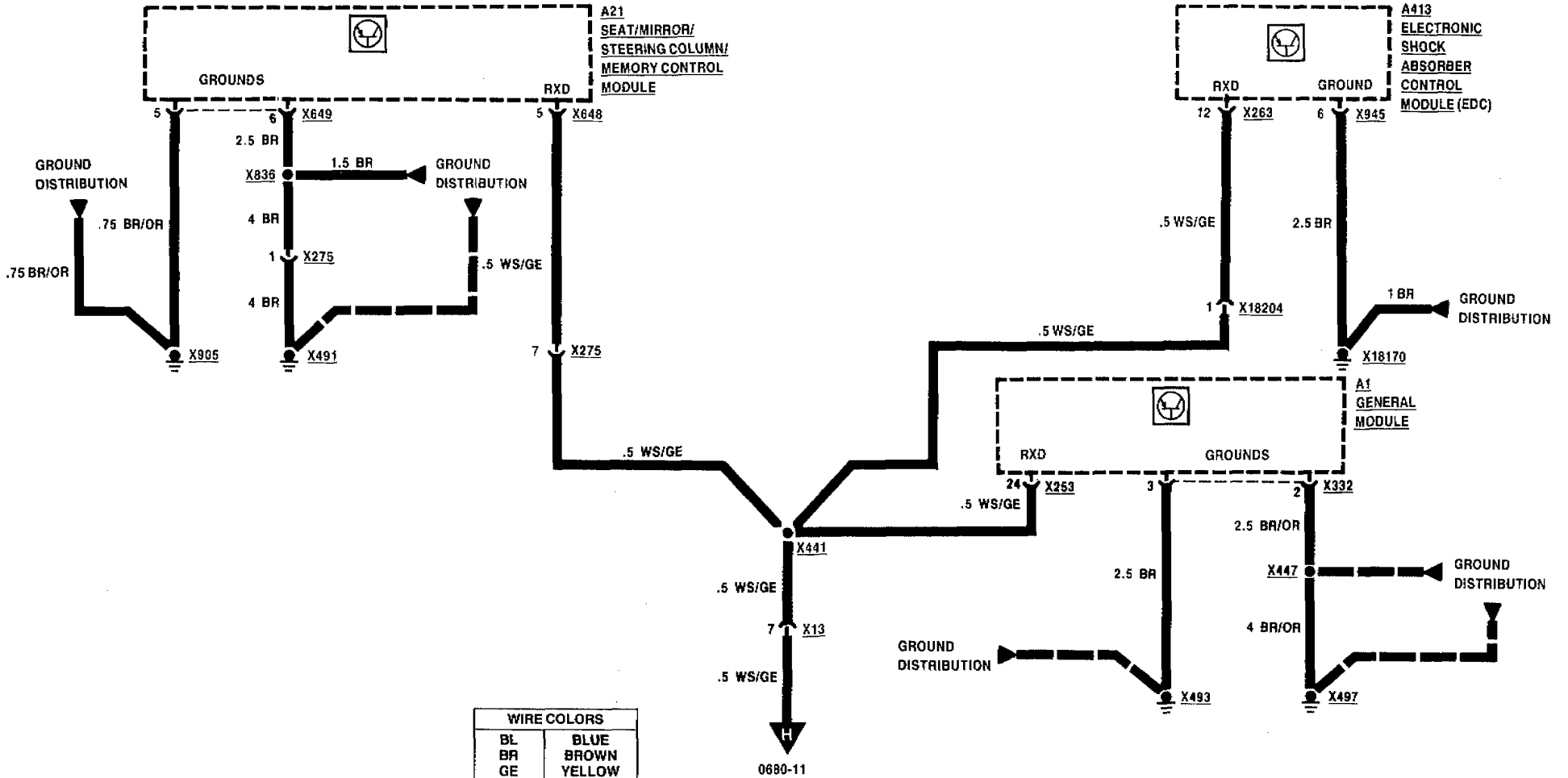
# DATA LINK

## TXD AND POWER





# RXD AND GROUNDS

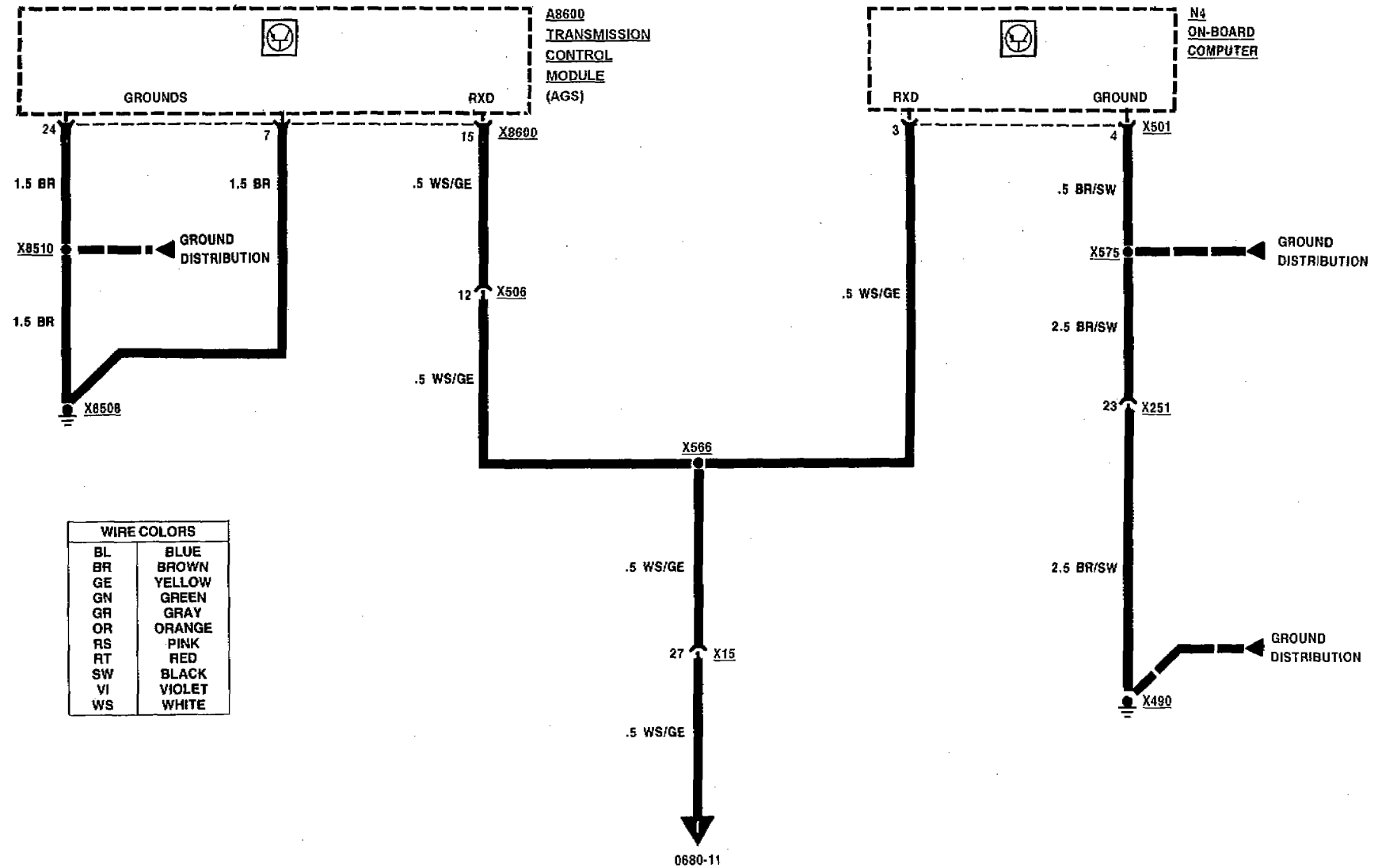


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# DATA LINK RXD AND GROUNDS

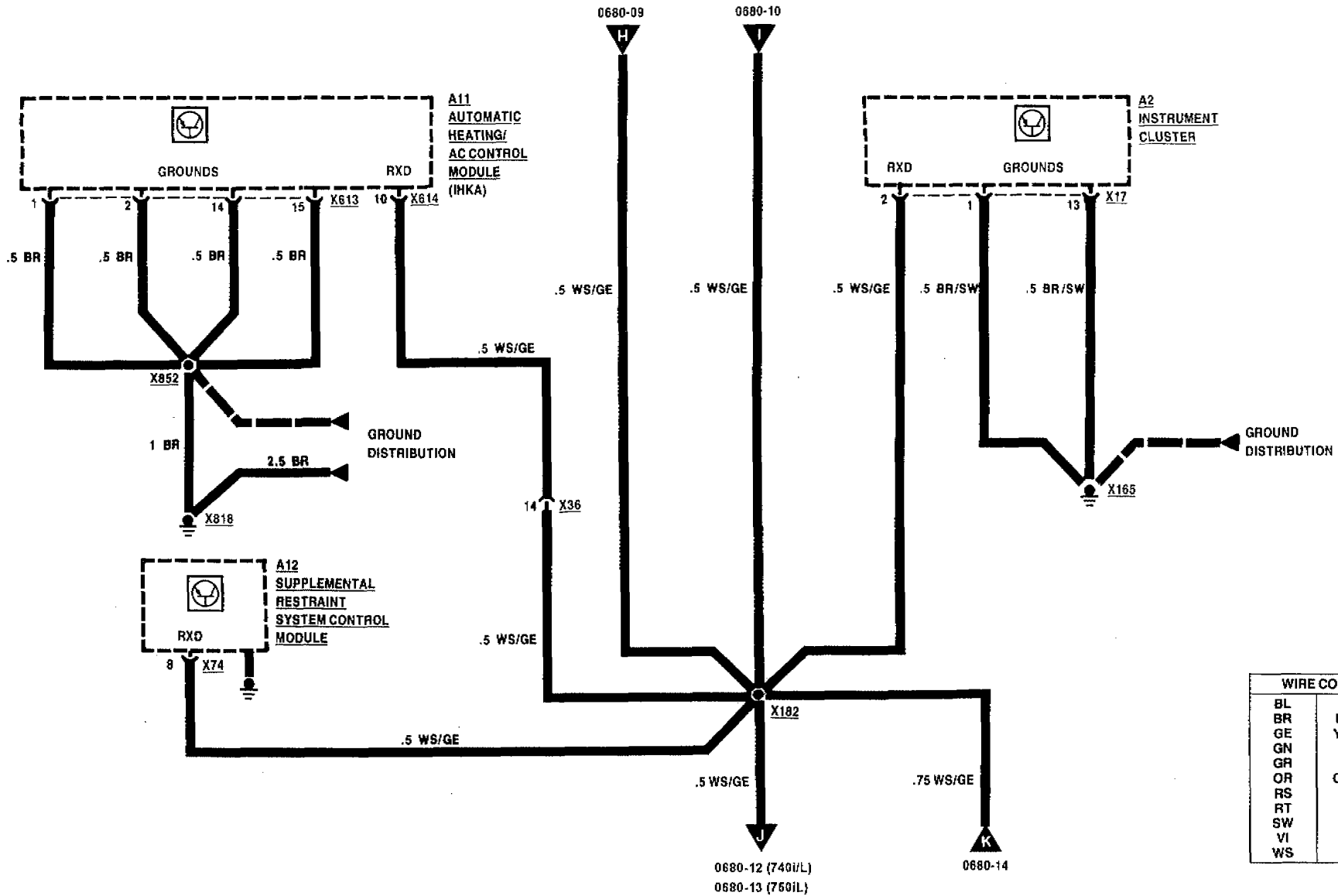
750iL



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



# DATA LINK



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



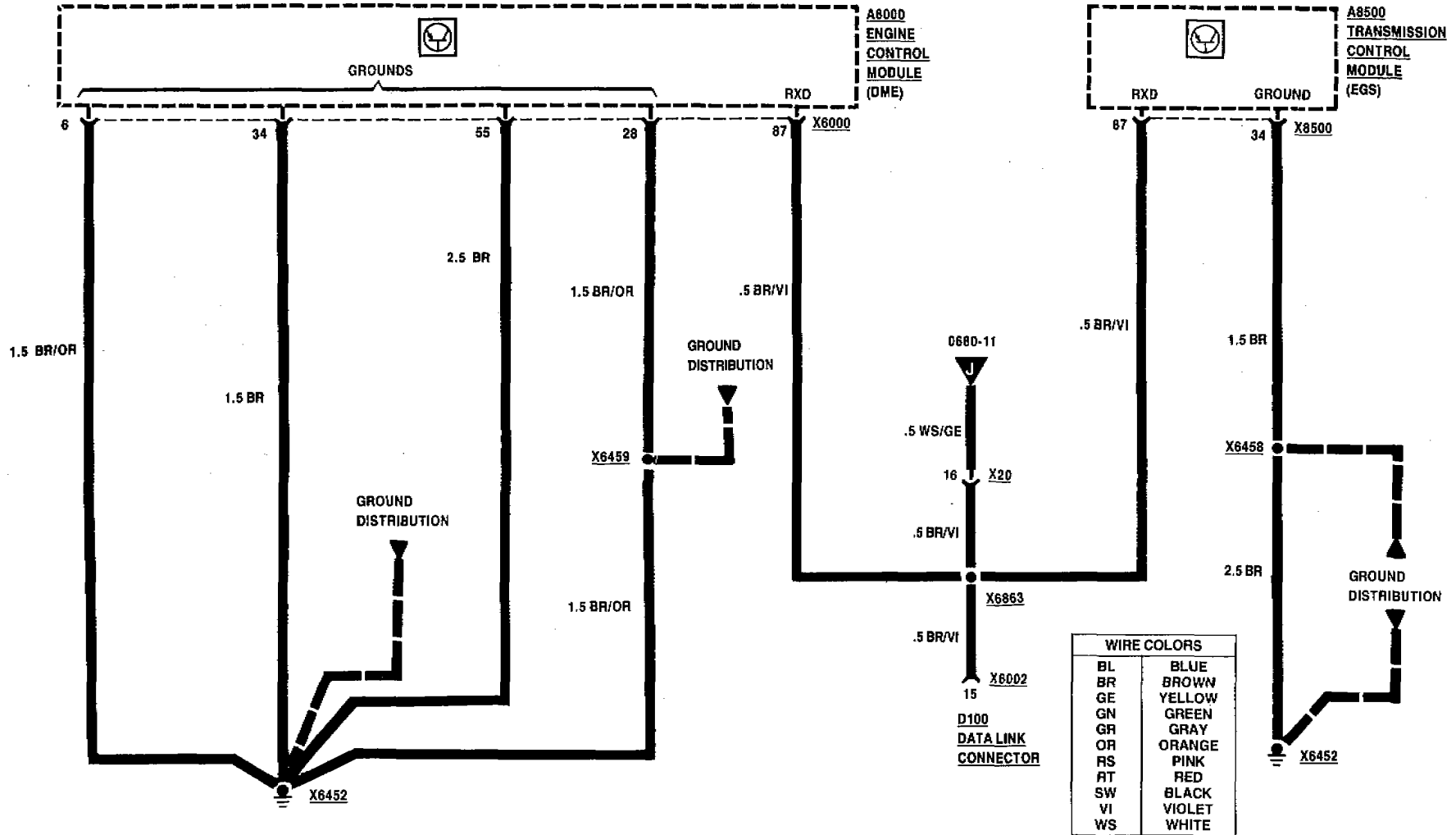
# DATA LINK RXD AND GROUNDS

740i/L

12/93

0680-12

93/94

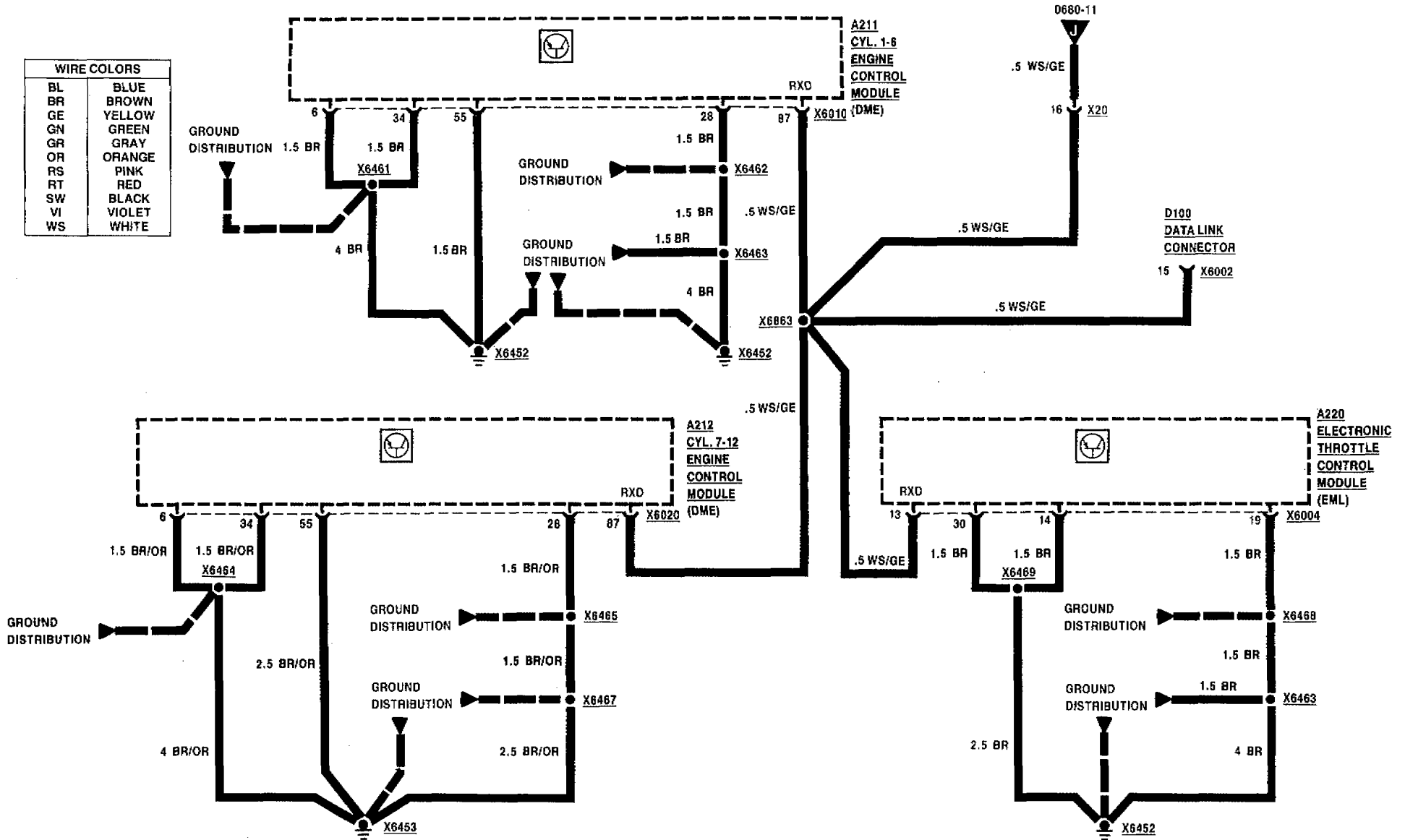




# DATA LINK RXD AND GROUNDS

750iL

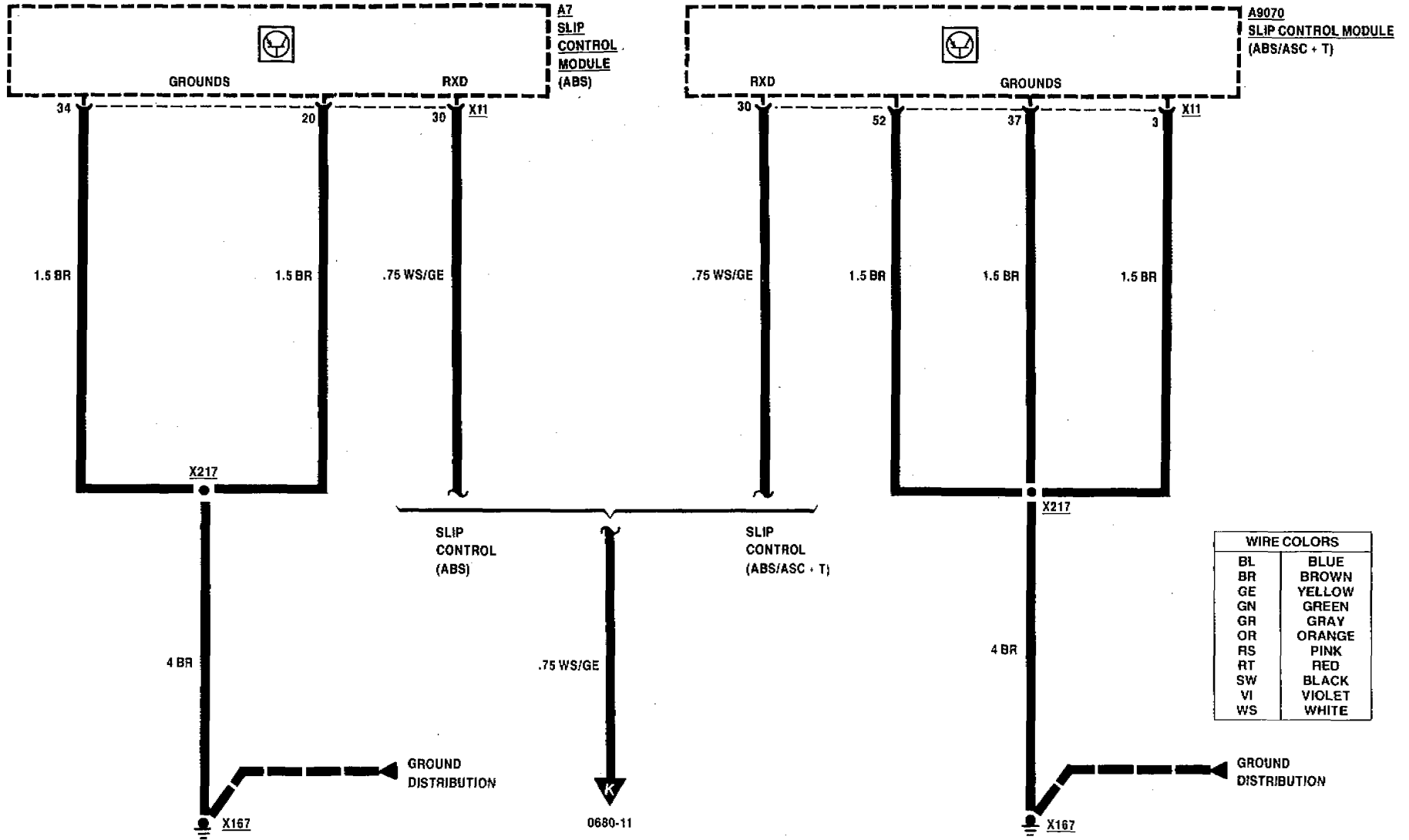
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# DATA LINK

## RXD AND GROUNDS

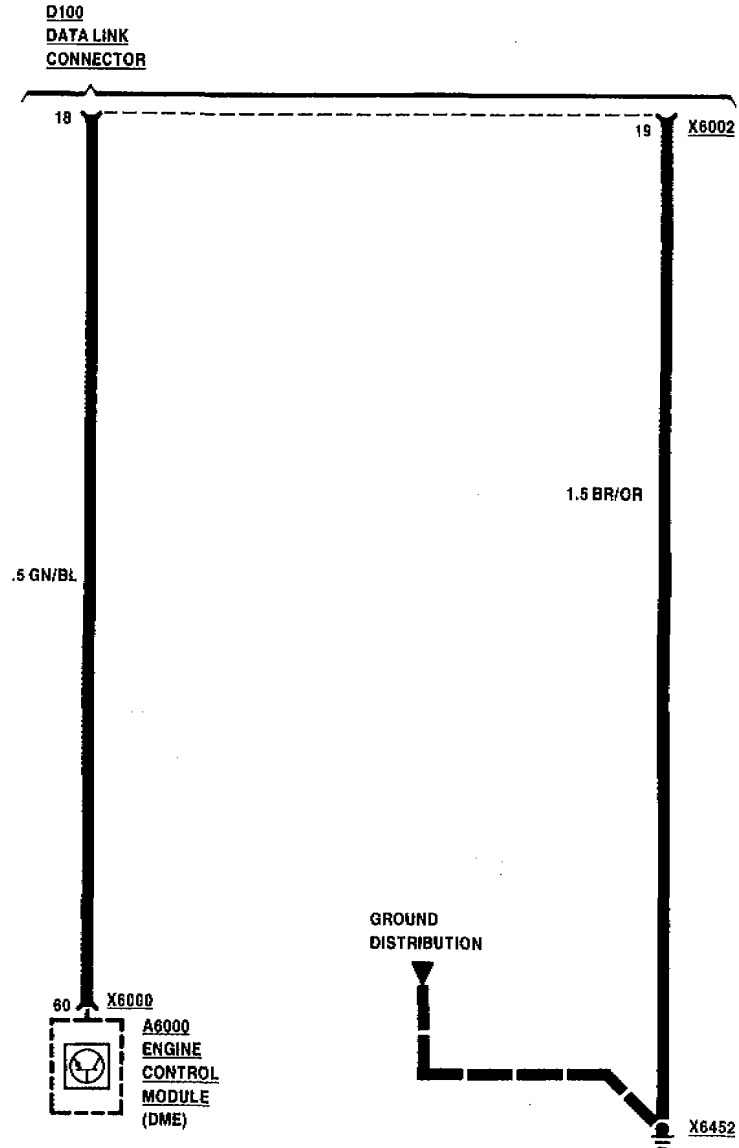




# DATA LINK

## DATA LINK CONNECTOR Pins 18, 19

740i/L



12/93

0680-15

93/94





# DATA LINK

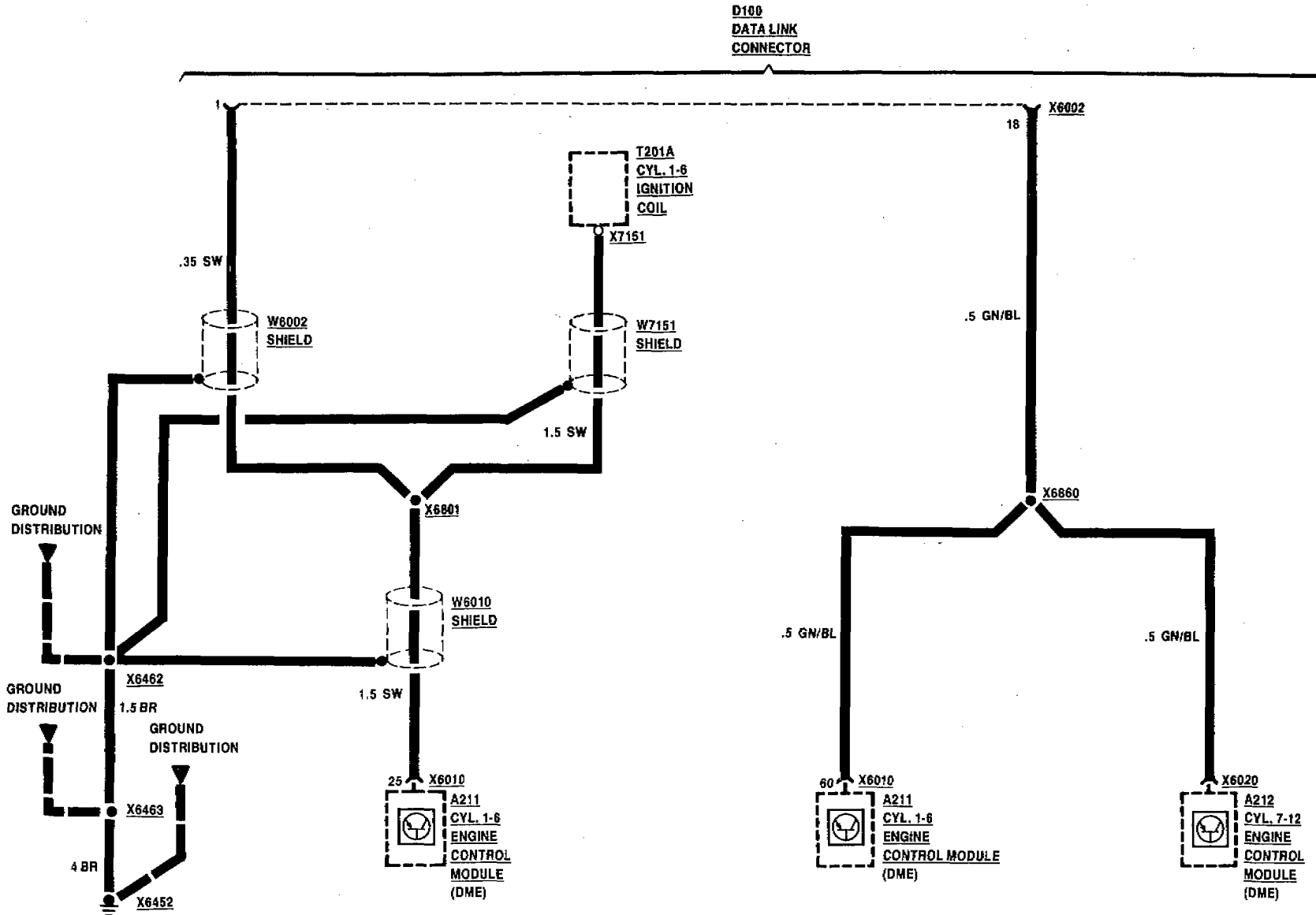
## DATA LINK CONNECTOR Pins 1, 18

750iL

12/93

0680-16

93/94





# DATA LINK

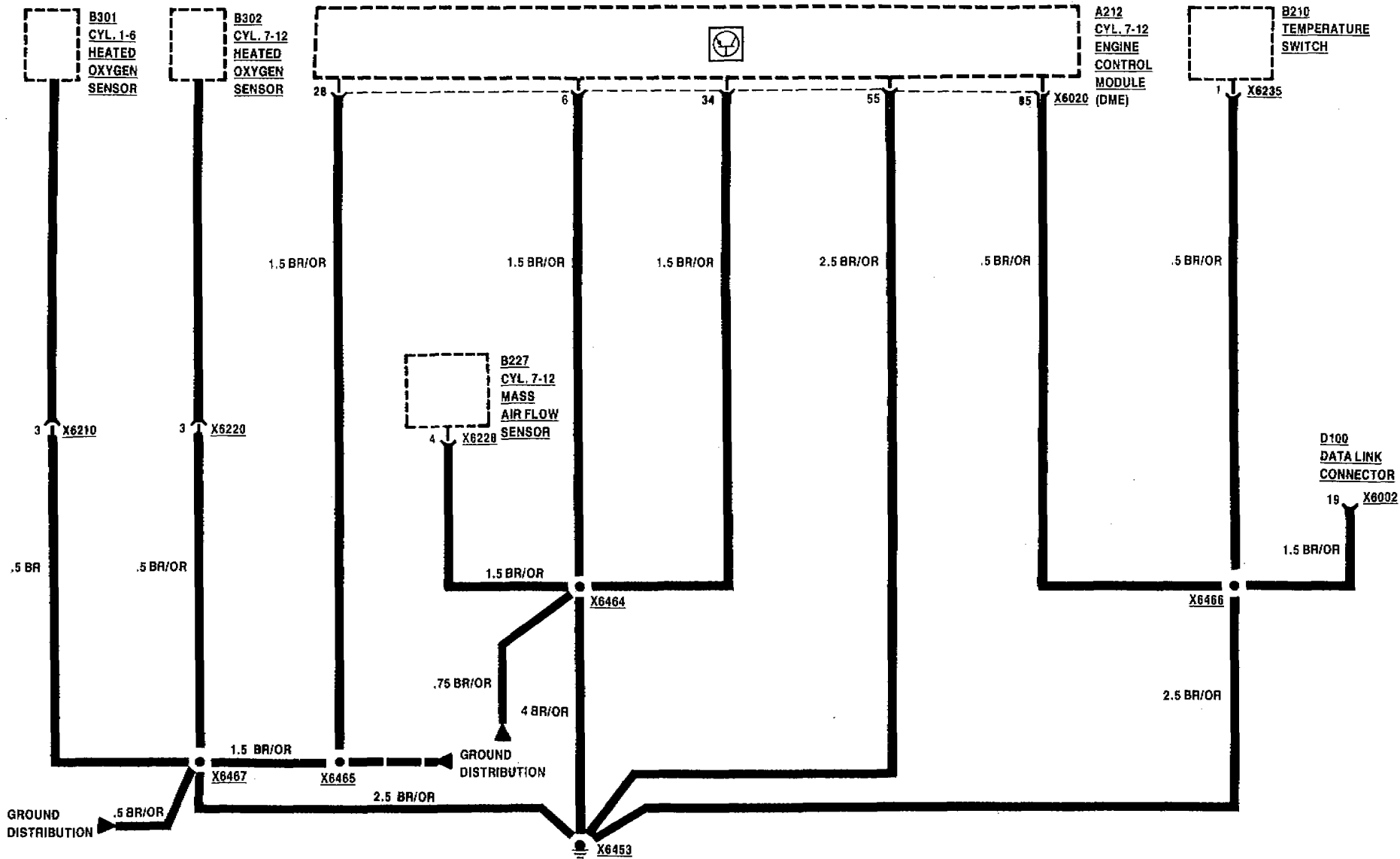
## DATA LINK CONNECTOR Pin 19

750iL

12/93

0680-17

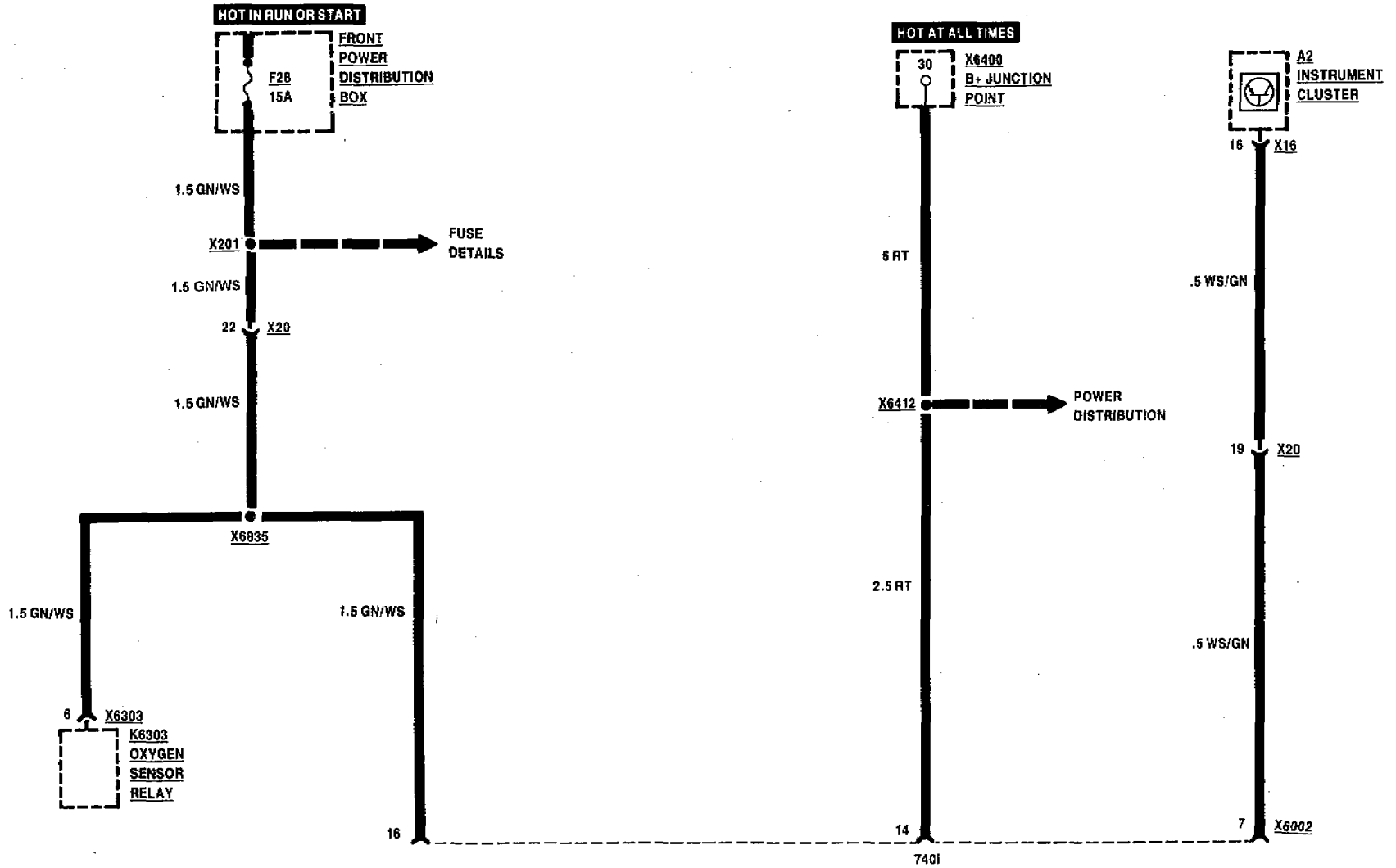
93/94





# DATA LINK

## DATA LINK Pins 7, 14, 16

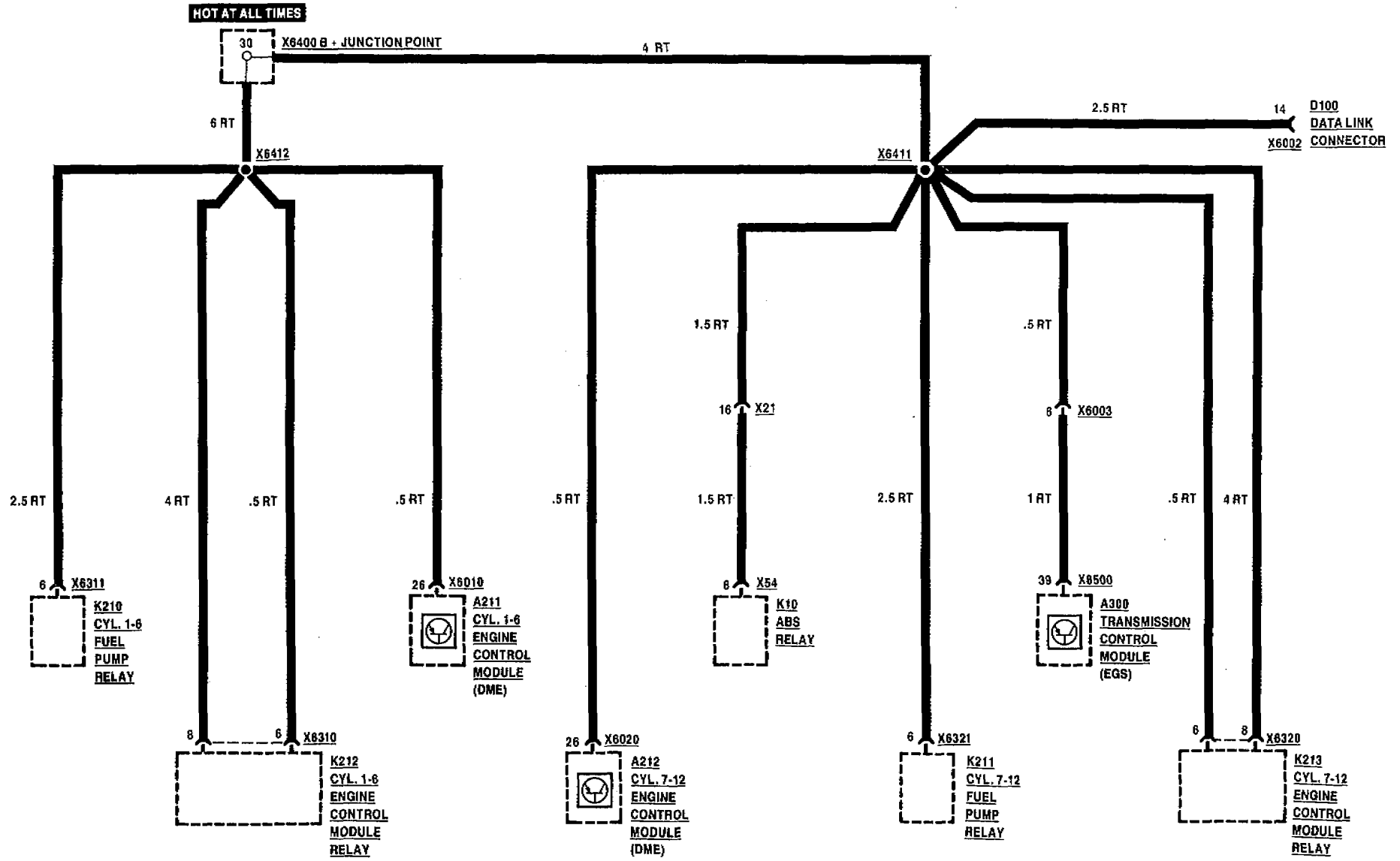


D100  
DATA LINK  
CONNECTOR



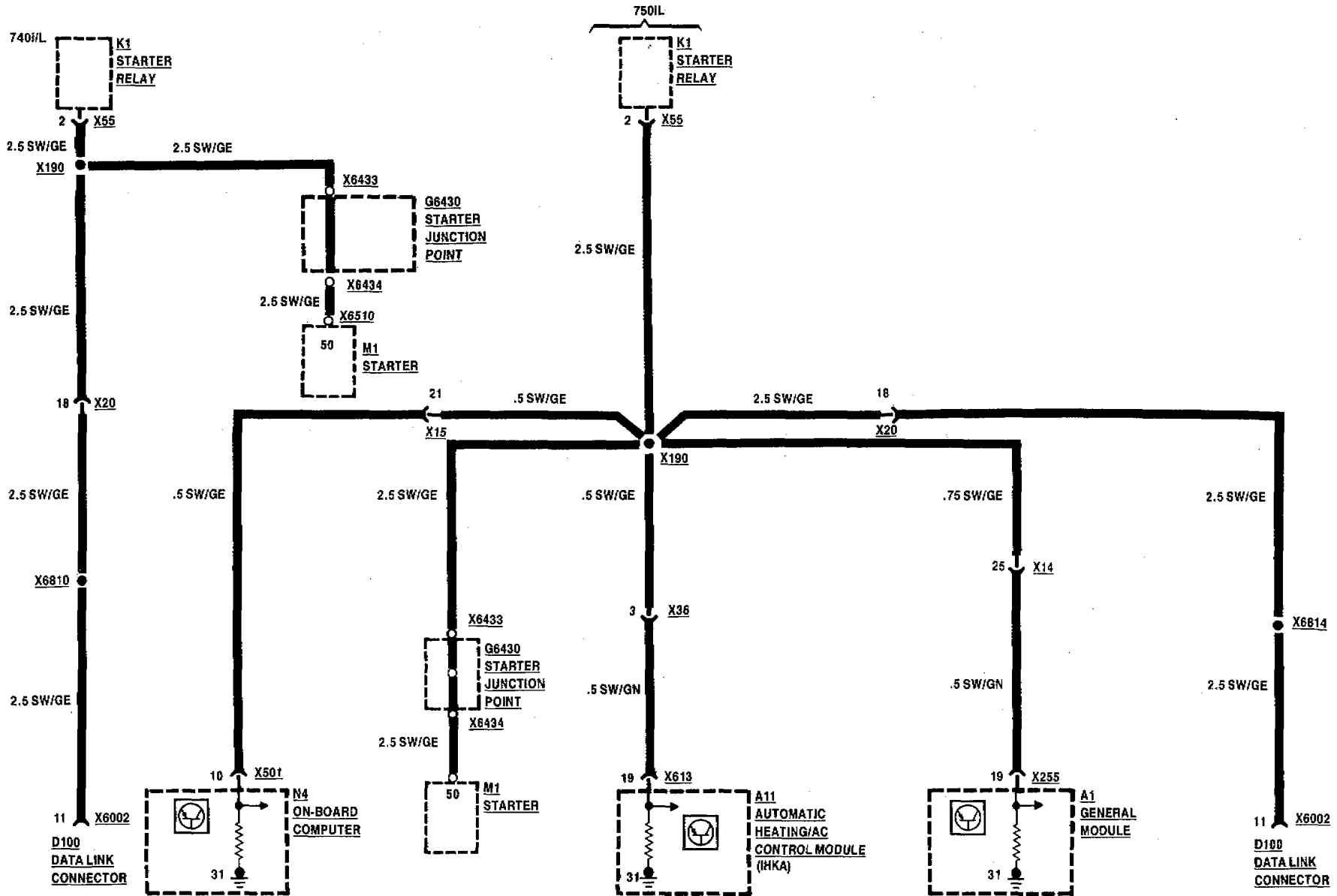
**DATA LINK**  
**DATA LINK CONNECTOR Pin 14**

750iL





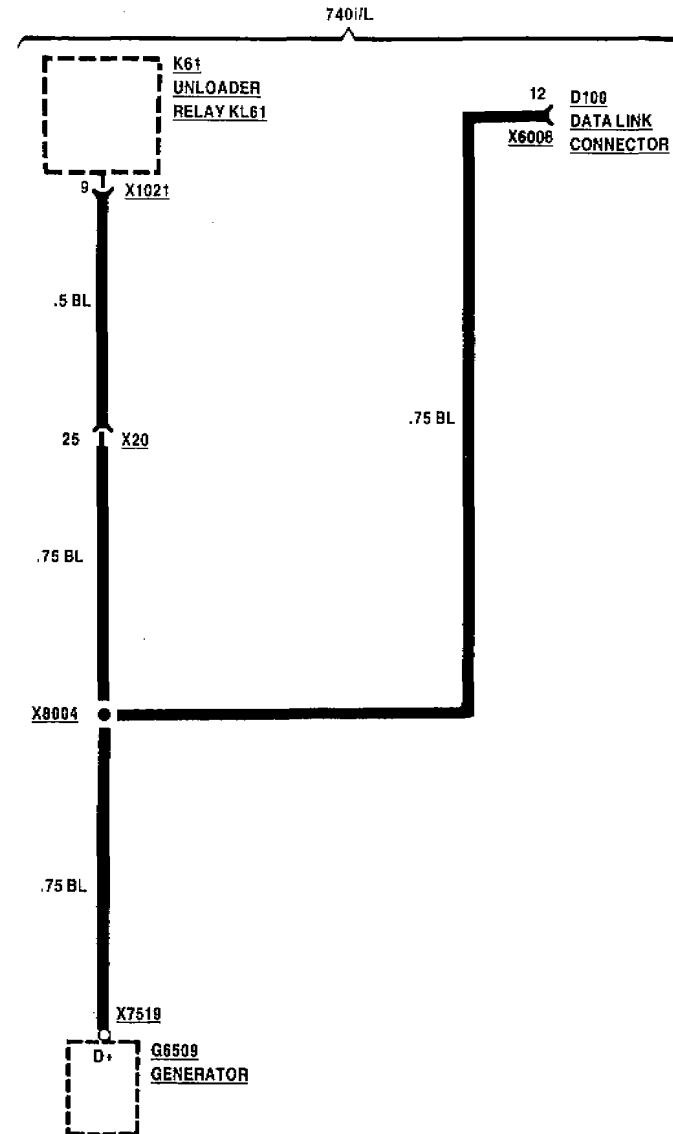
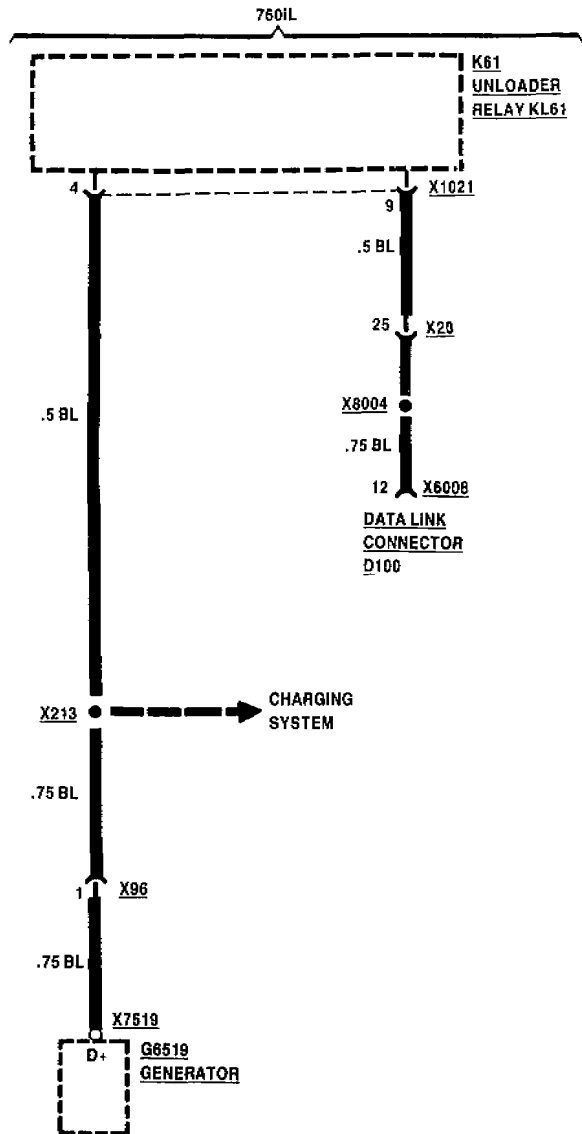
# DATA LINK DATA LINK CONNECTOR Pin 11





# DATA LINK

## DATA LINK CONNECTOR Pin 12

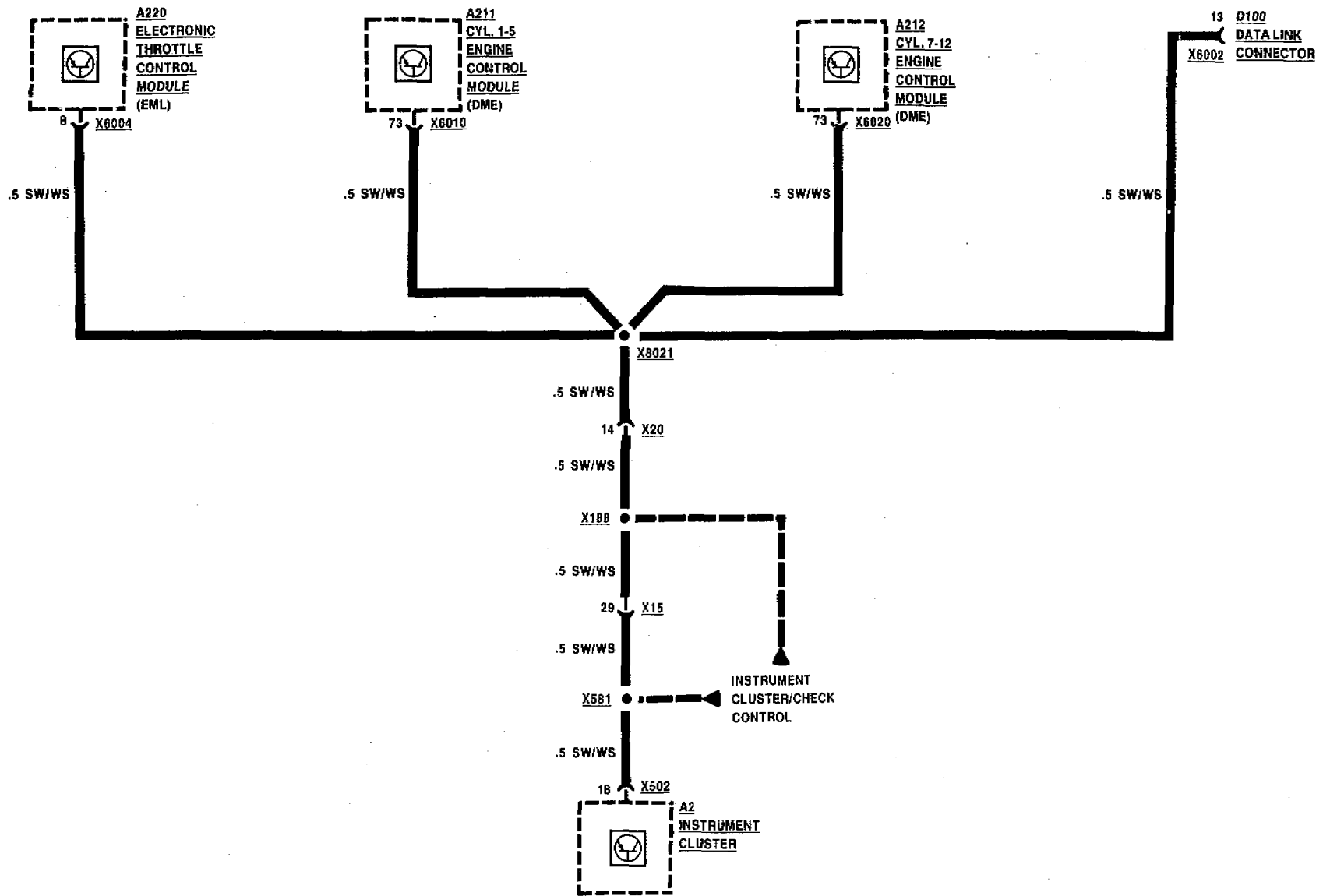




# DATA LINK

750iL

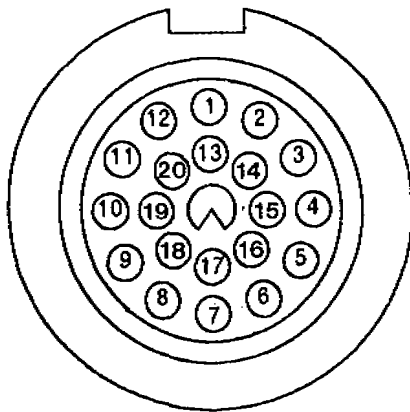
## DATA LINK CONNECTOR Pin 13





# DATA LINK

## DATA LINK CONNECTOR (X6002)



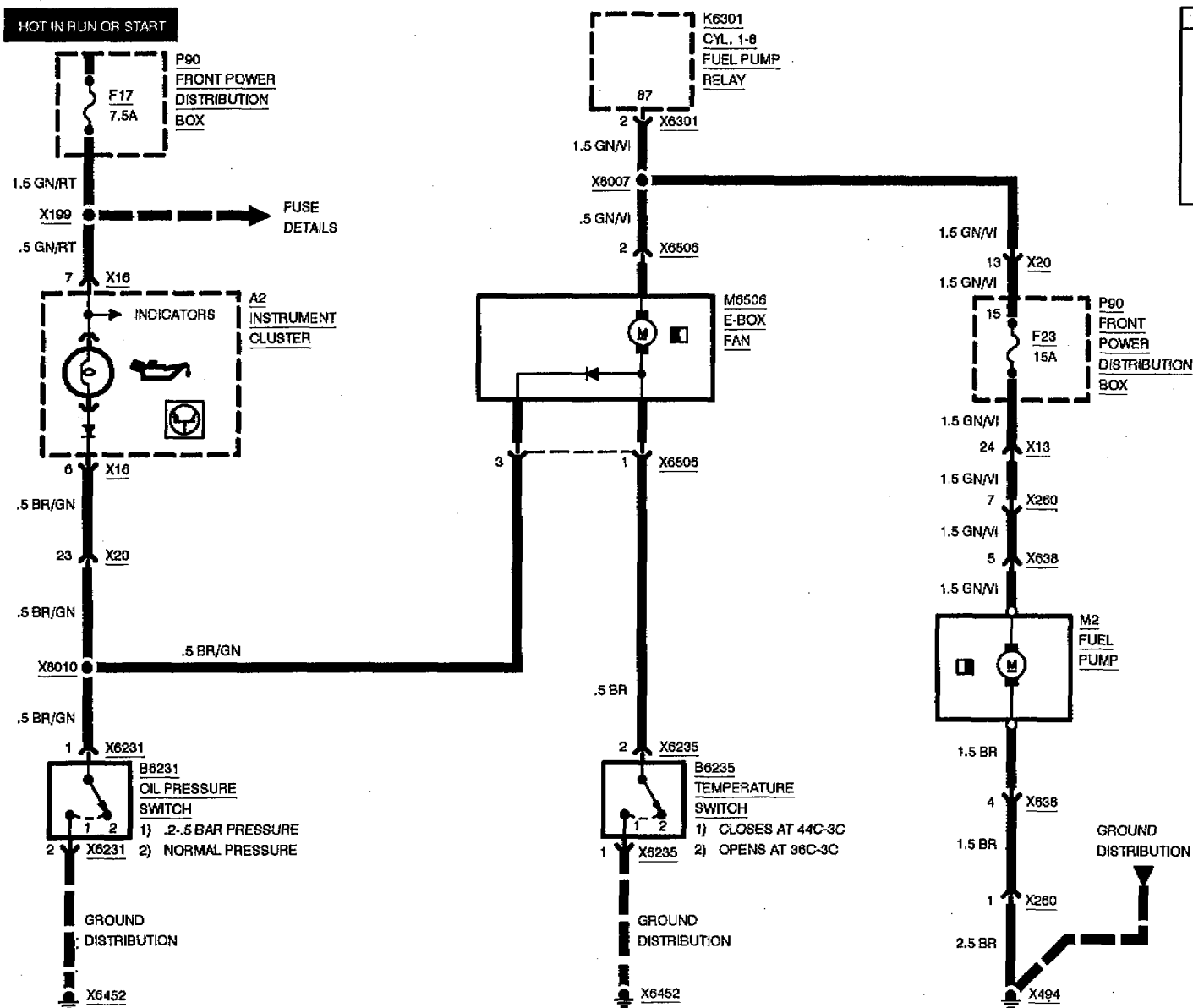
PIN		TERMINAL DESCRIPTION	WIRE 740i/L	COLOR 750i
NUMBER	TERMINAL NUMBER			
1	1	IGNITION COIL (750iL ONLY)		SW
2	—	NOT USED		
3	—	NOT USED		
4	—	NOT USED		
5	—	NOT USED		
6	—	NOT USED		
7	SI	SERVICE	WS/GN	WS/GN
8	—	NOT USED		
9	—	NOT USED		
10	—	NOT USED		
11	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE	SW/GE
12	61 (D+)	ALTERNATOR CHARGE INDICATOR	BL	BL
13	TAS	VEHICLE SPEED (750iL ONLY)		SW/WS
14	30	VOLTAGE: HOT AT ALL TIMES	RT	RT
15	RXD	DIAGNOSTIC DATA LINK	BR/VI	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN	GN/WS	GN/WS
17	—	NOT USED		
18	—	ENGINE CONTROL MODULE PROGRAMMING	GN/BL	GN/BL
19	31	GROUND	BR	BR
20	TXD	TRANSMIT	WS/VI	WS/VI





# E-BOX FAN

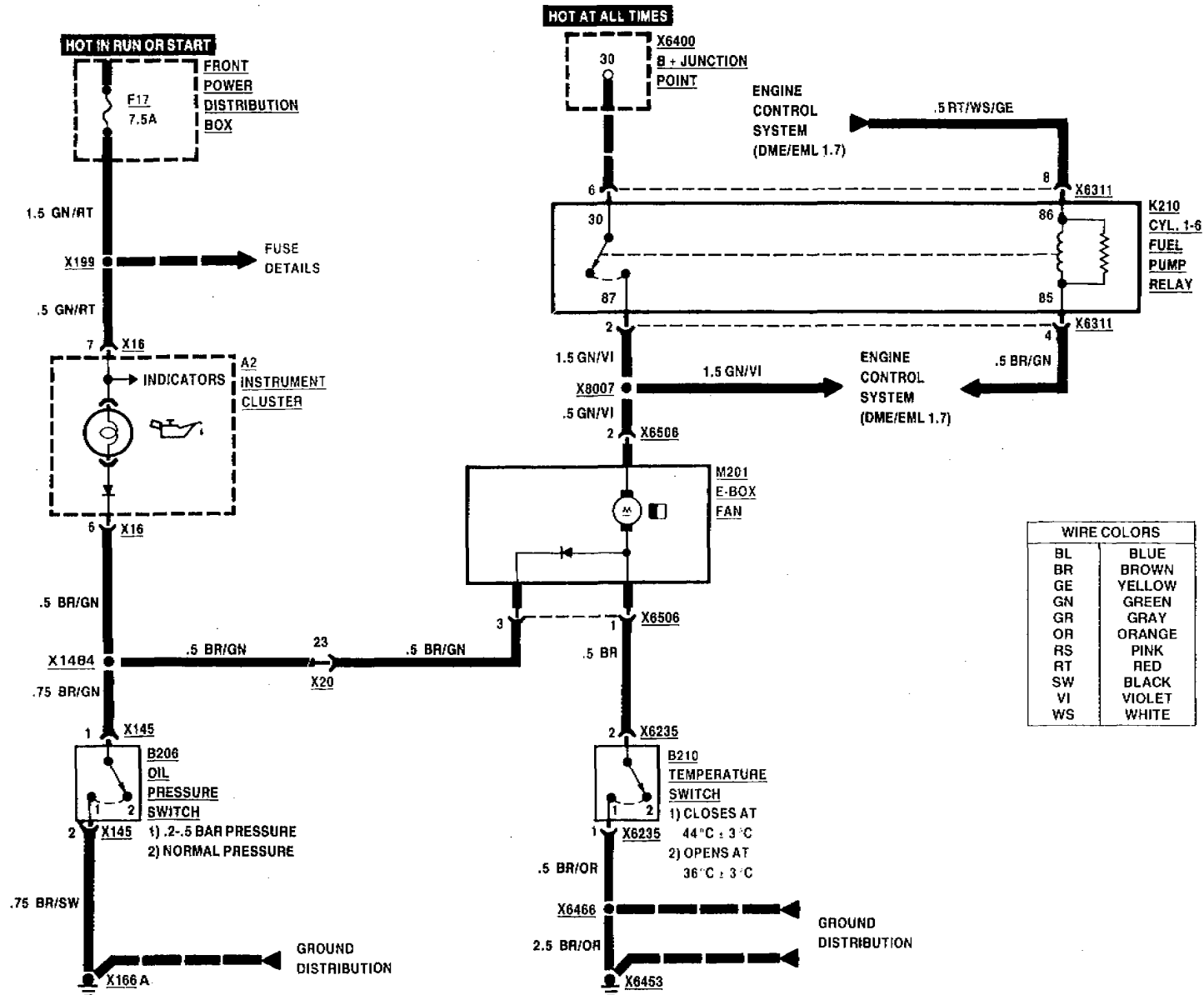
740i/L





# E-BOX FAN

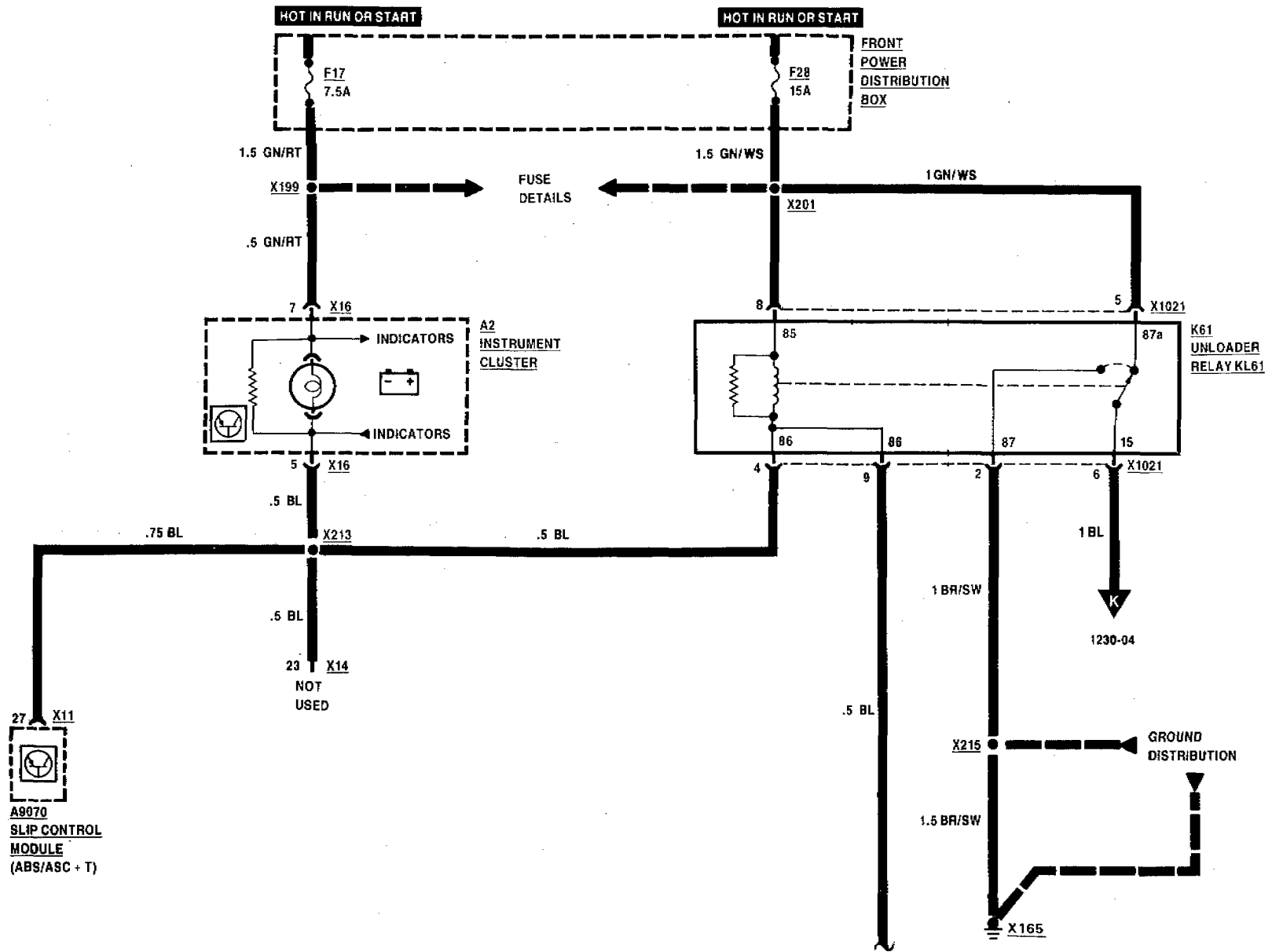
# 750iL





# CHARGING SYSTEM

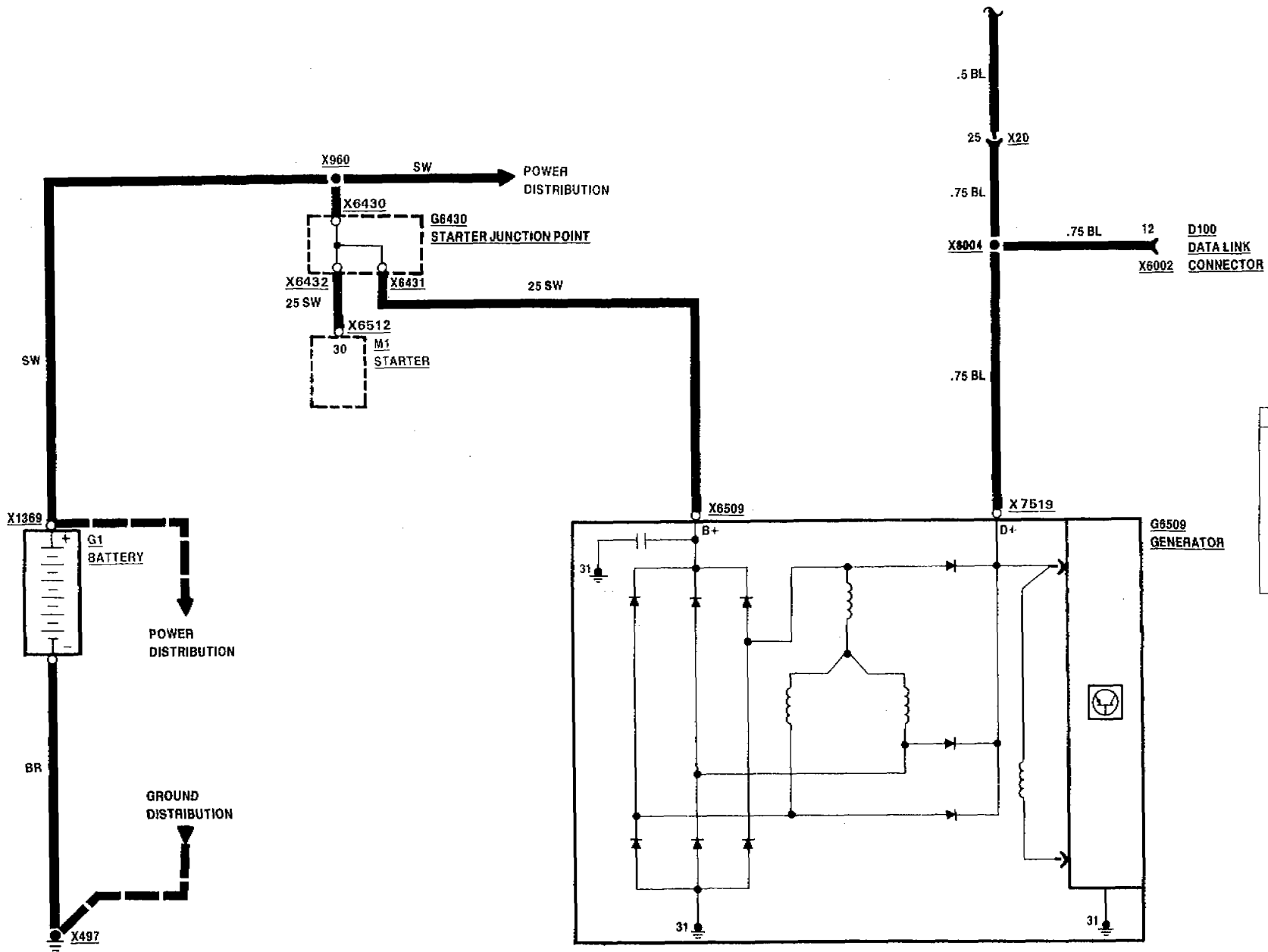
740i/L



12/93

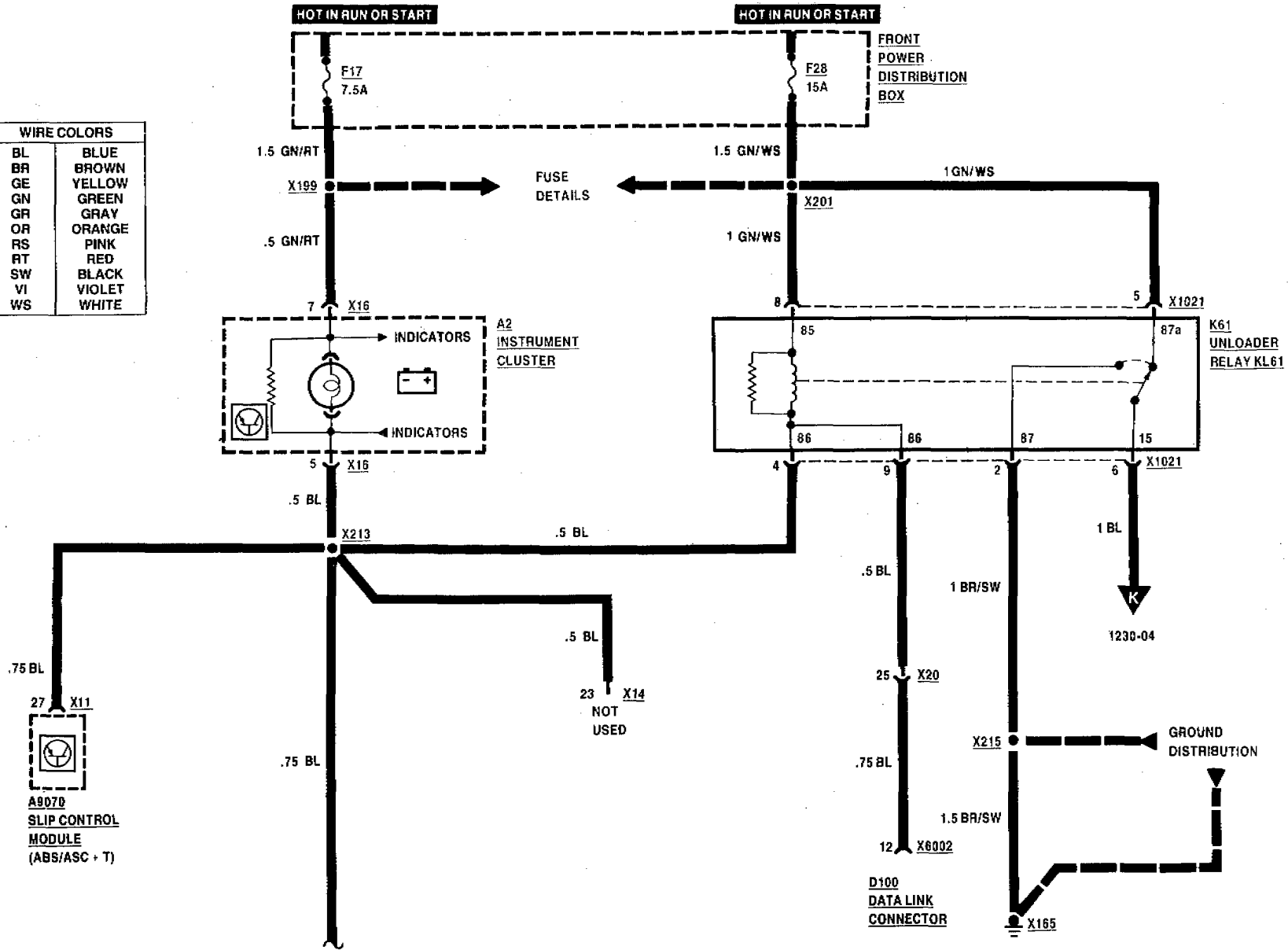
1230-00

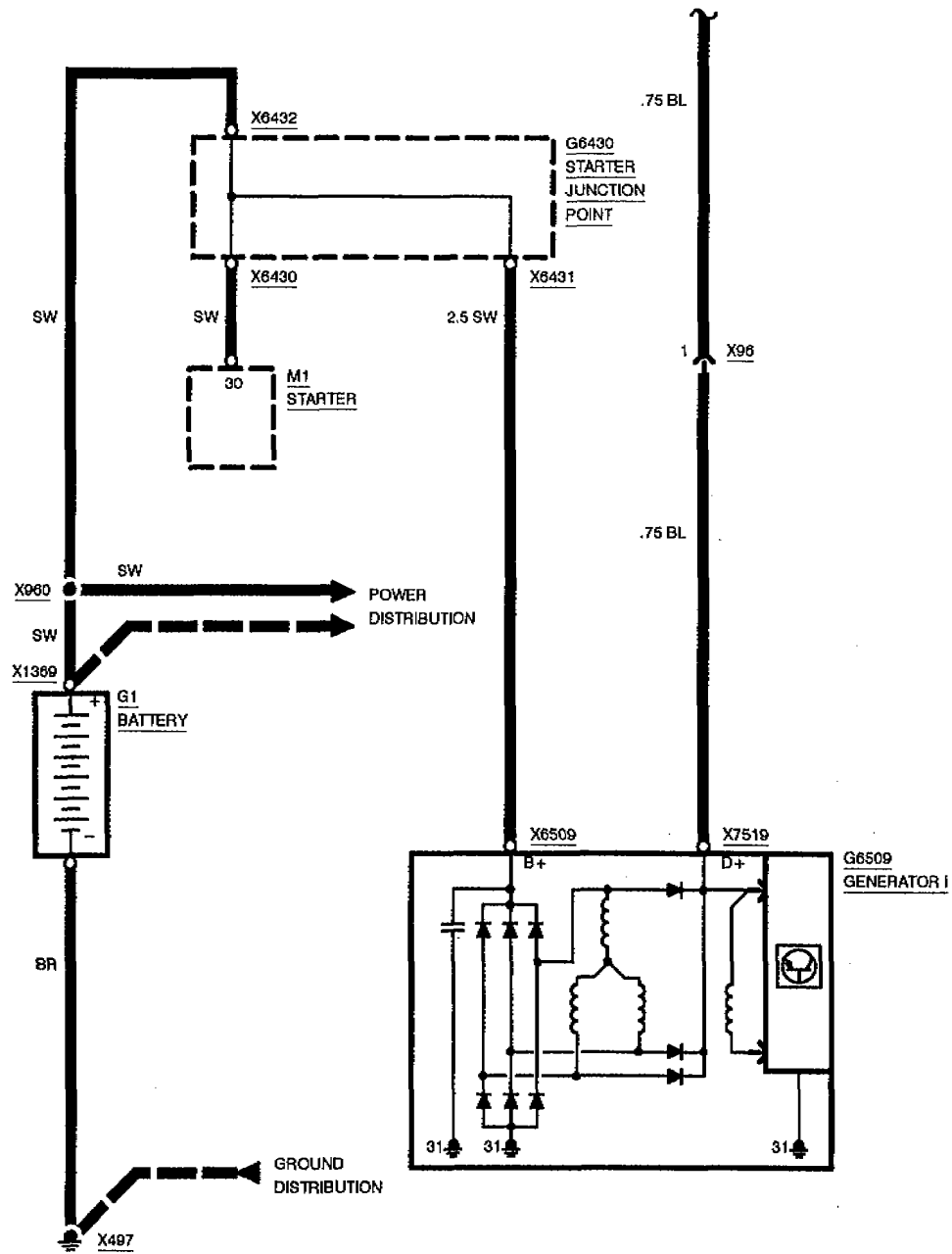
93/94



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

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

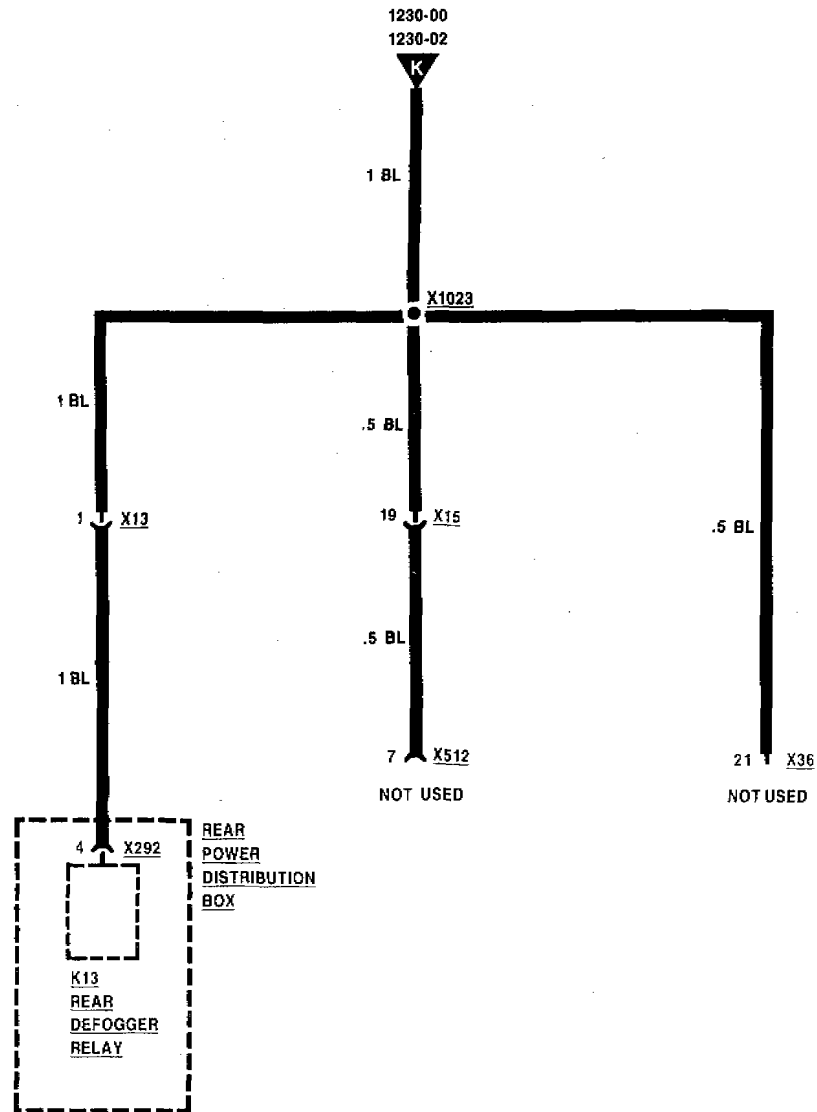




WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# CHARGING SYSTEM



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







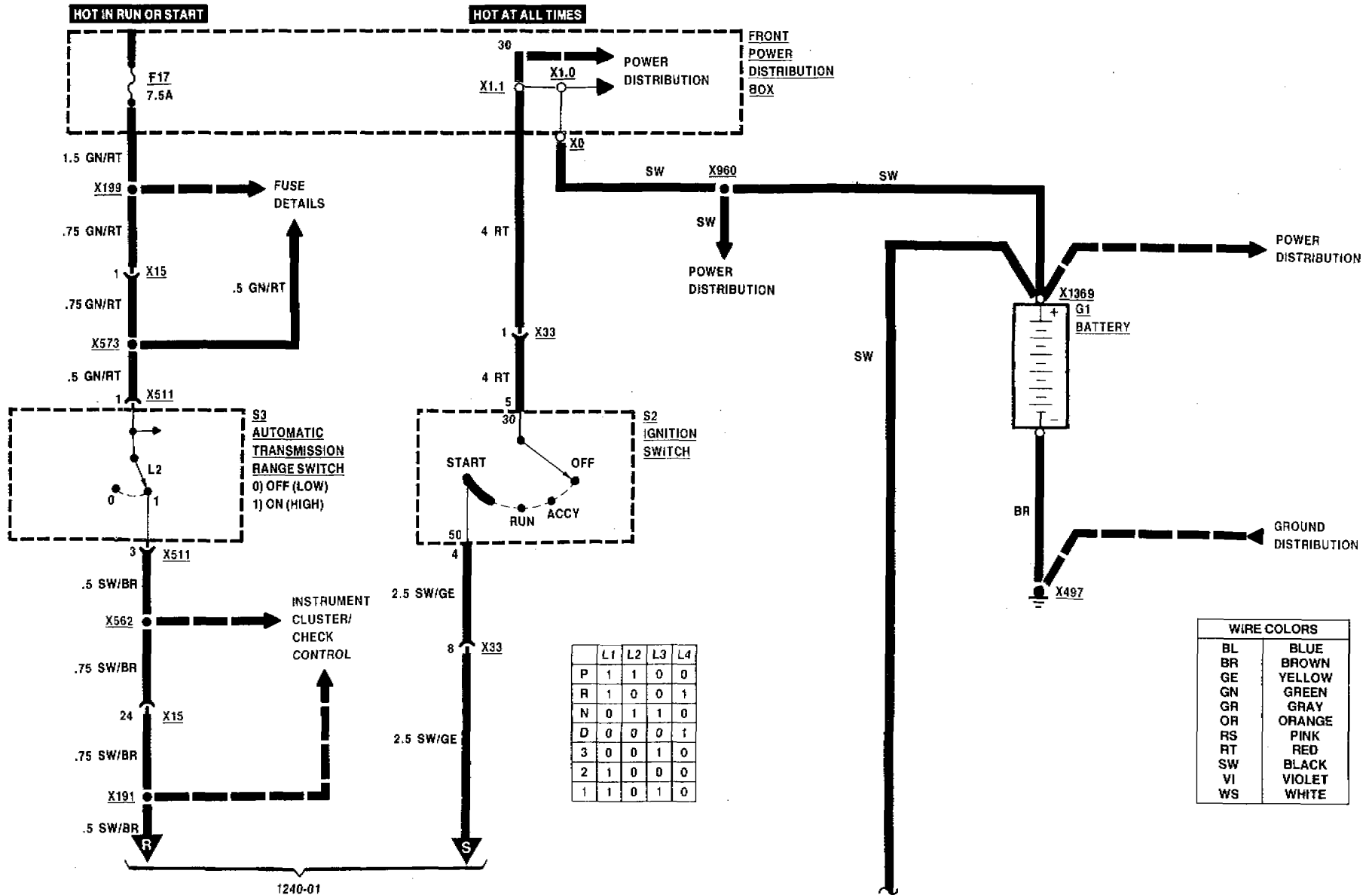
# START

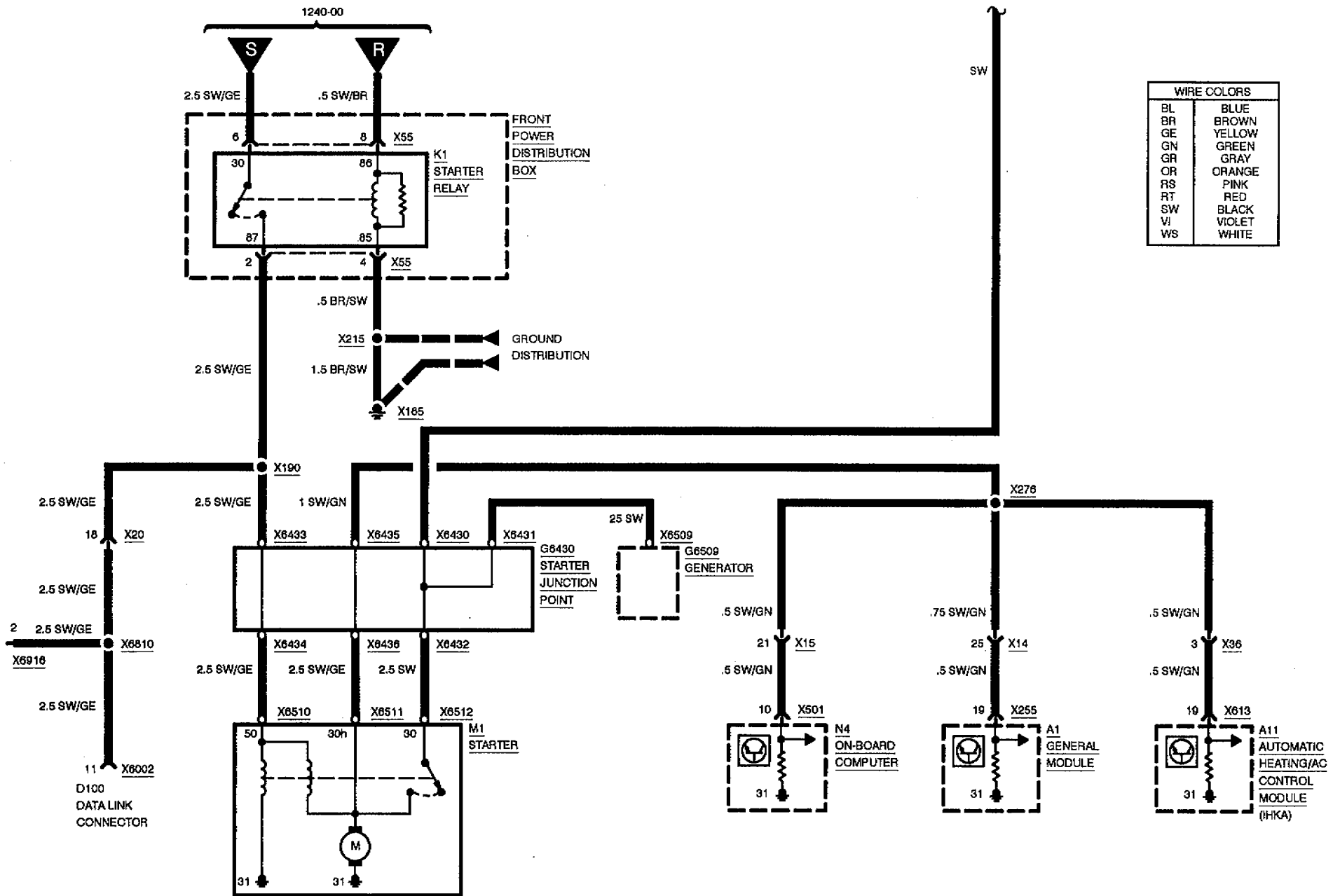
740i/L

12/93

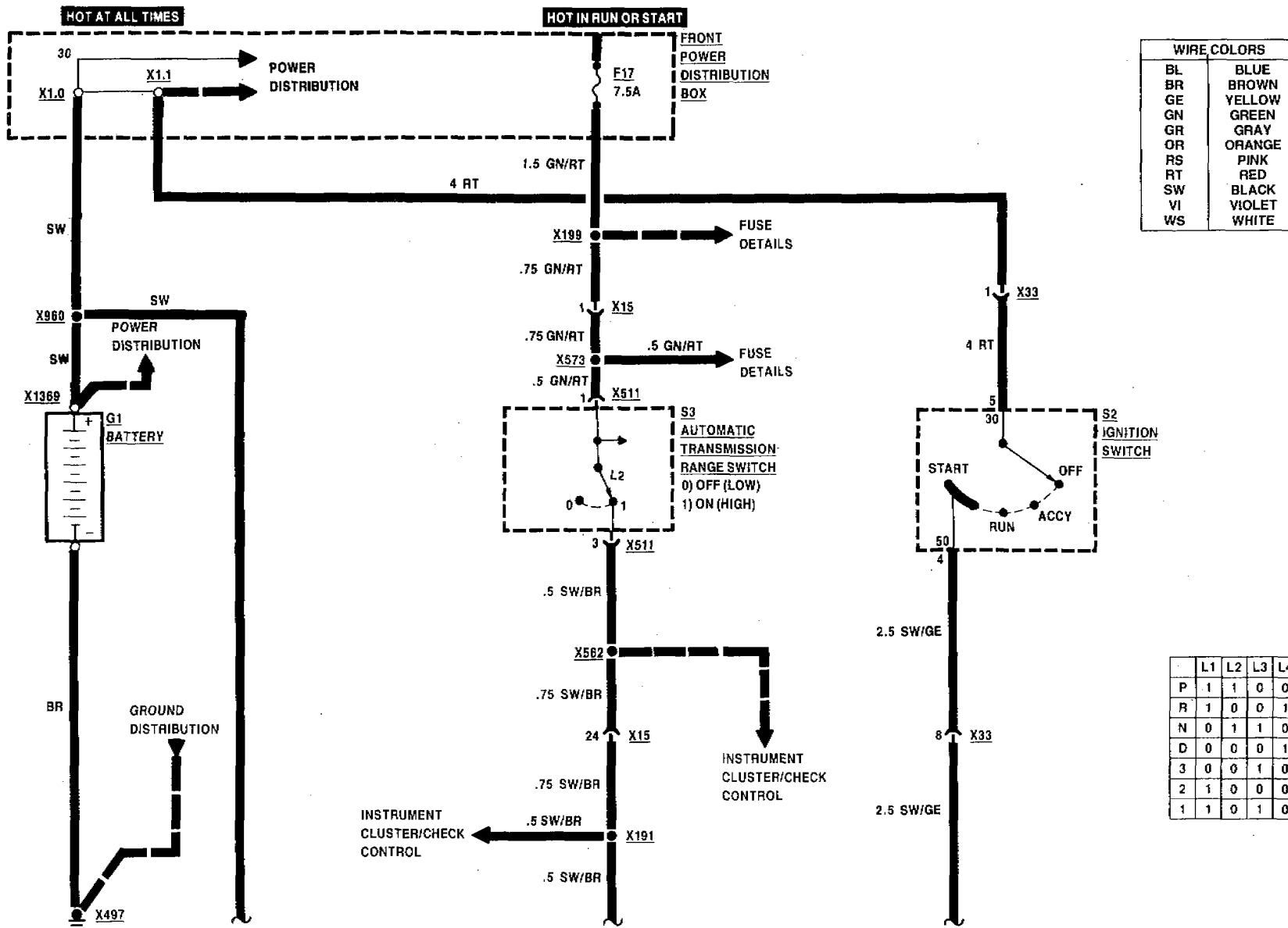
1240-00

93/94

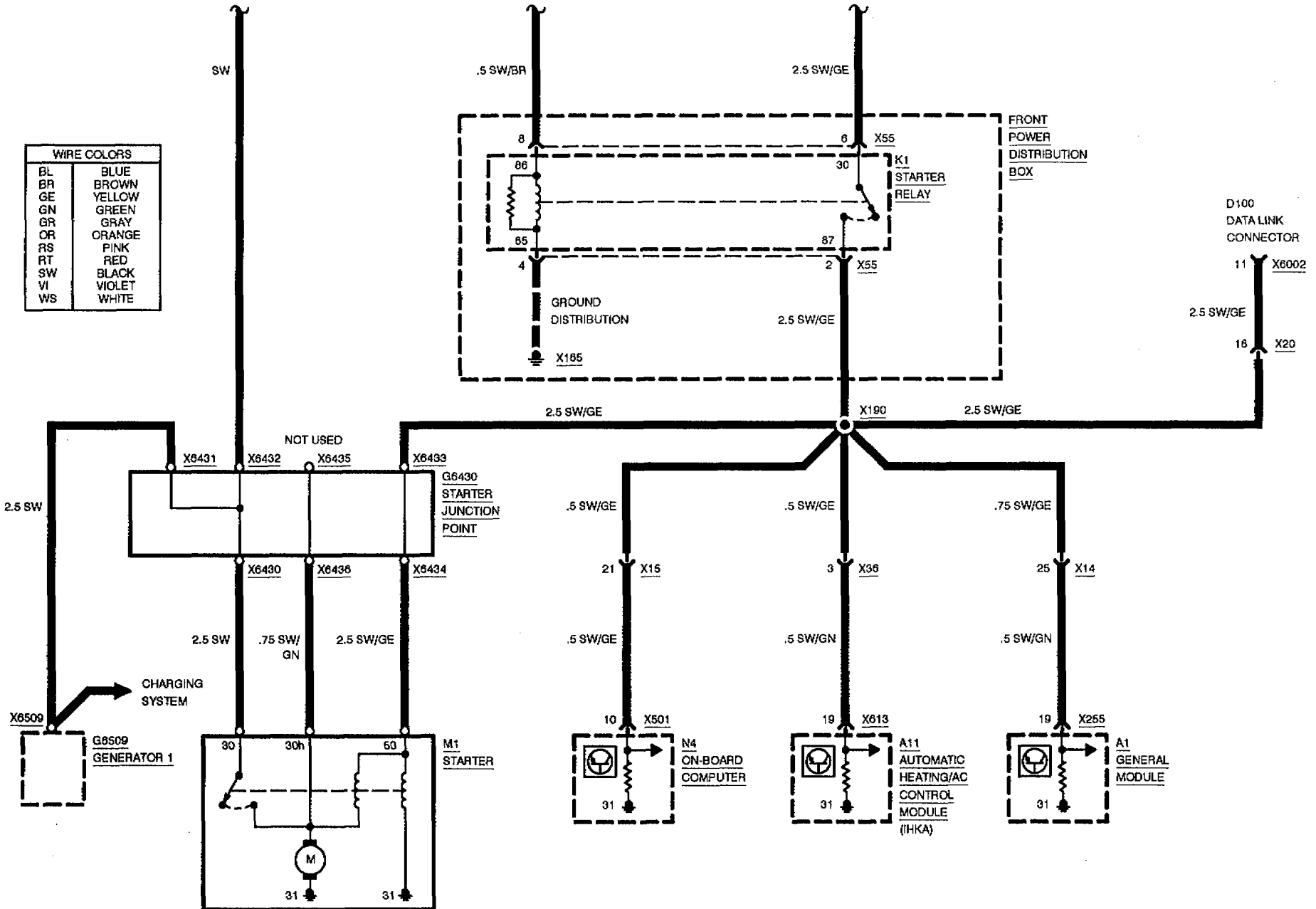




WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

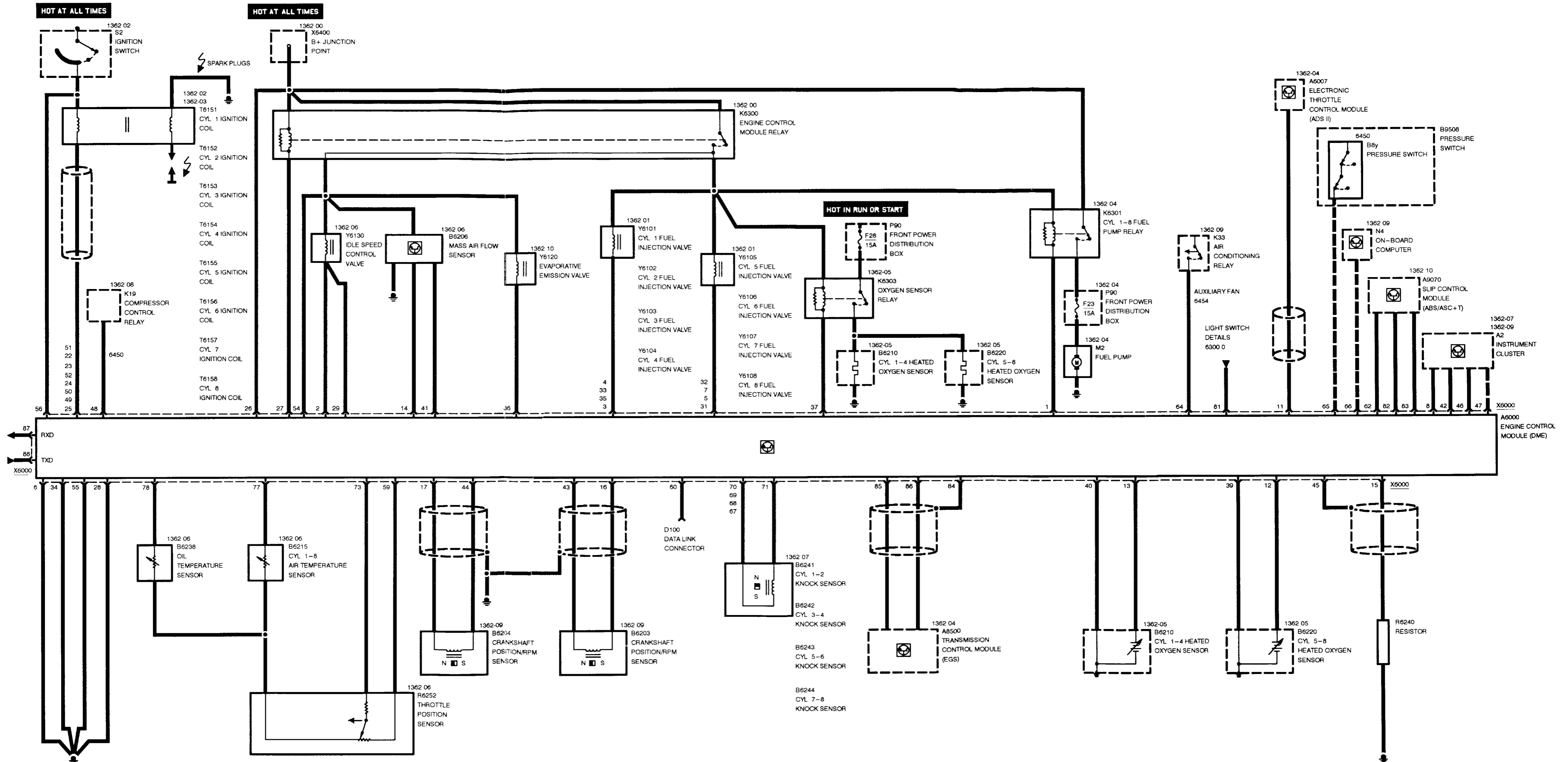


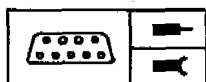
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





1240-04



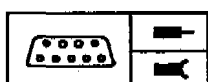


## Pin Assignments

### X6000

Pin	Type	Description/Function	Connection
1	A	Fuel pump relay	Cyl. 1 - 8 fuel pump relay, K6301
2	A	Air control valve closed	Idle speed control valve, Y6130
3	A	Cyl. 1 fuel injection valve	Cyl. 1 fuel injection valve, Y6101
4	A	Cyl. 4 fuel injection valve	Cyl. 4 fuel injection valve, Y6104
5	A	Cyl. 6 fuel injection valve	Cyl. 6 fuel injection valve, Y6106
6	M	Ground	Ground point, X6452
7	A	Cyl. 7 fuel injection valve	Cyl. 7 fuel injection valve, Y6107
8	A	"CHECK ENGINE"-lamp	Instrument cluster, A2
9		Not used	
10		Not used	
11	A	Output throttle flap sensor	Electronic throttle control module, A6007
12	E	Signal Cyl. 5 - 8 heated oxygen sensor	Cyl. 5 - 8 heated oxygen sensor, B6220
13	E	Signal Cyl. 1 - 4 heated oxygen sensor	Cyl. 1 - 4 heated oxygen sensor, B6210
14	E	Ground from mass air flow sensor	Mass air flow sensor, B6206
15	E	Injection signal	Resistor, R6240
16	E	Signal crankshaft/RPM	Crankshaft position/RPM sensor, B6203
17	E	Signal camshaft position	Camshaft position sensor, B6201
18		Not used	
19	A	Signal, secondary air pump	
20		Not used	
21		Not used	
22	A	Cyl. 7 ignition signal	Cyl. 7 ignition coil, T6157
23	A	Cyl. 6 ignition signal	Cyl. 6 ignition coil, T6156
24	A	Cyl. 4 ignition signal	Cyl. 4 ignition coil, T6154
25	A	Cyl. 1 ignition signal	Cyl. 1 ignition coil, T6151
26	E	Continuous plus supply terminal 30	Front power distribution box
27	A	Signal to engine control module relay	Engine control module relay, K6300
28	M	Ground	Ground point, X6452
29	A	Air control valve open	Idle speed control valve, Y6130
30		Not used	

E = Input, A = Output, M = Ground

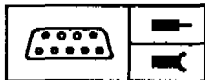


## Pin Assignments

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

E = Input, A = Output, M = Ground





## Pin Assignments

Pin	Type	Description/Function	Connection
63		Not used	
64	E	Signal AC ready	Air conditioning relay for engine control module, K33
65	E	Signal AC-compressor	Pressure switch, B8y
66	E	Signal, on-board computer	On-board computer, N4
67	E	Signal, Cyl. 7 - 8 knock sensor	Cyl. 7 - 8 knock sensor, B6244
68	E	Signal, Cyl. 5 - 6 knock sensor	Cyl. 5 - 6 knock sensor, B6243
69	E	Signal, Cyl. 3 - 4 knock sensor	Cyl. 3 - 4 knock sensor, B6242
70	E	Signal, Cyl. 1 - 2 knock sensor	Cyl. 1 - 2 knock sensor, B6241
71	E	Ground, knock sensors	Knock sensors
72		Not used	
73	E	Signal throttle position sensor	Throttle position sensor, R6252
74		Not used	
75		Not used	
76		Not used	
77	E	Signal intake air temperature	Engine intake air temperature sensor, B6215
78	E	Signal engine coolant temperature	Engine coolant temperature sensor, B6238
79		Not used	
80		Not used	
81	E	Signal headlights on	Light switch, S8
82	E	Engine coasting signal	Slip control module (ABS/ASC+T), A9070
83	E	Traction control regulation signal	Slip control module (ABS/ASC+T), A9070
84	E	Ground, EGS-shield	Shield EGS
85	E/A	Data signal	Transmission control module, A8500
86	E/A	Data signal	Transmission control module, A8500
87	A	Diagnosis	Data link connector, RxD
88	E/A	Diagnosis	Data link connector, TxD

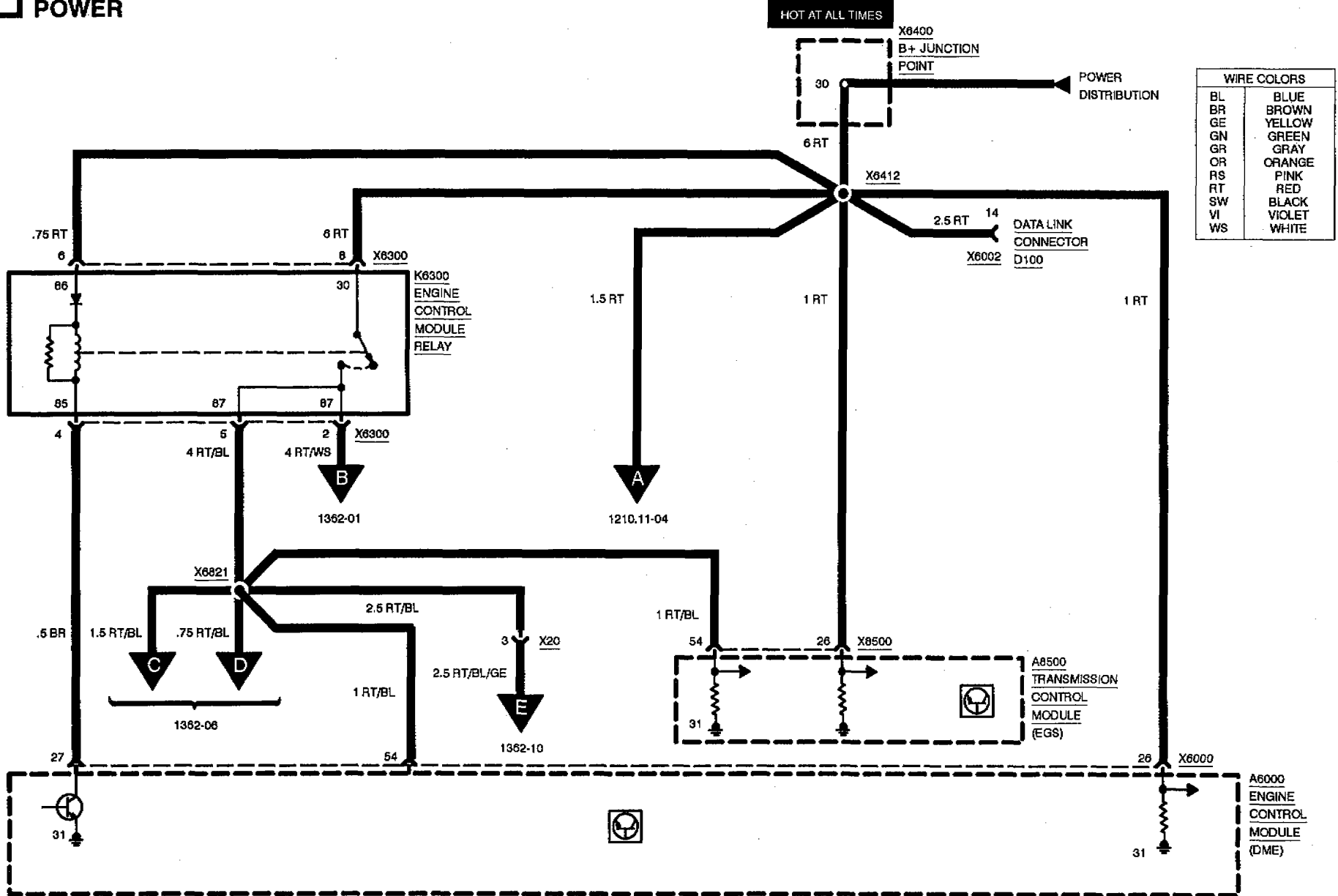
E = Input, A = Output, M = Ground



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

740i/L

## POWER



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

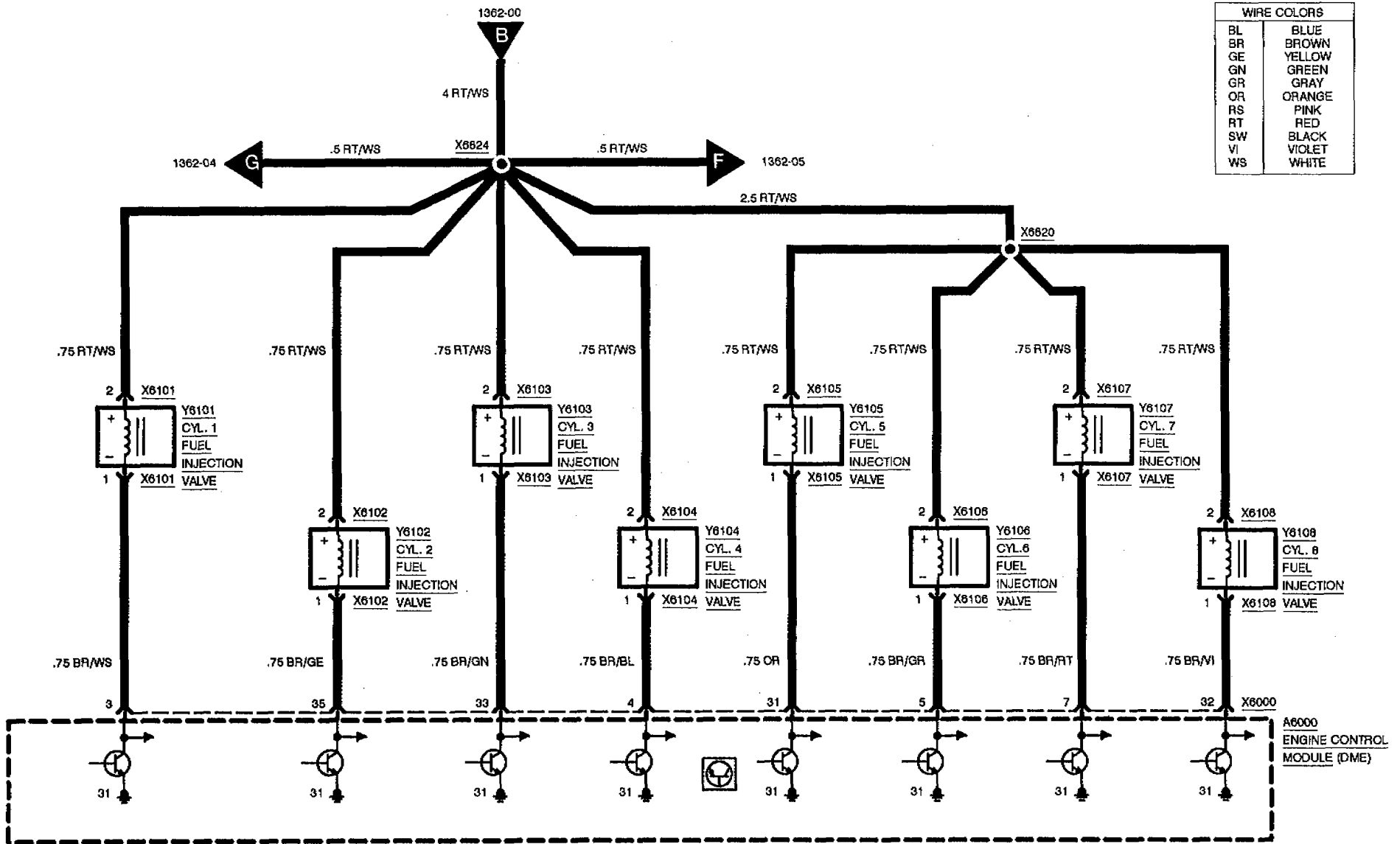


# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYL. M60)

740i/L

## INJECTION VALVES

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



12/93

1362-01

93/94

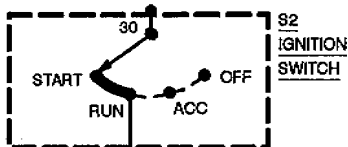


# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYL. M60)

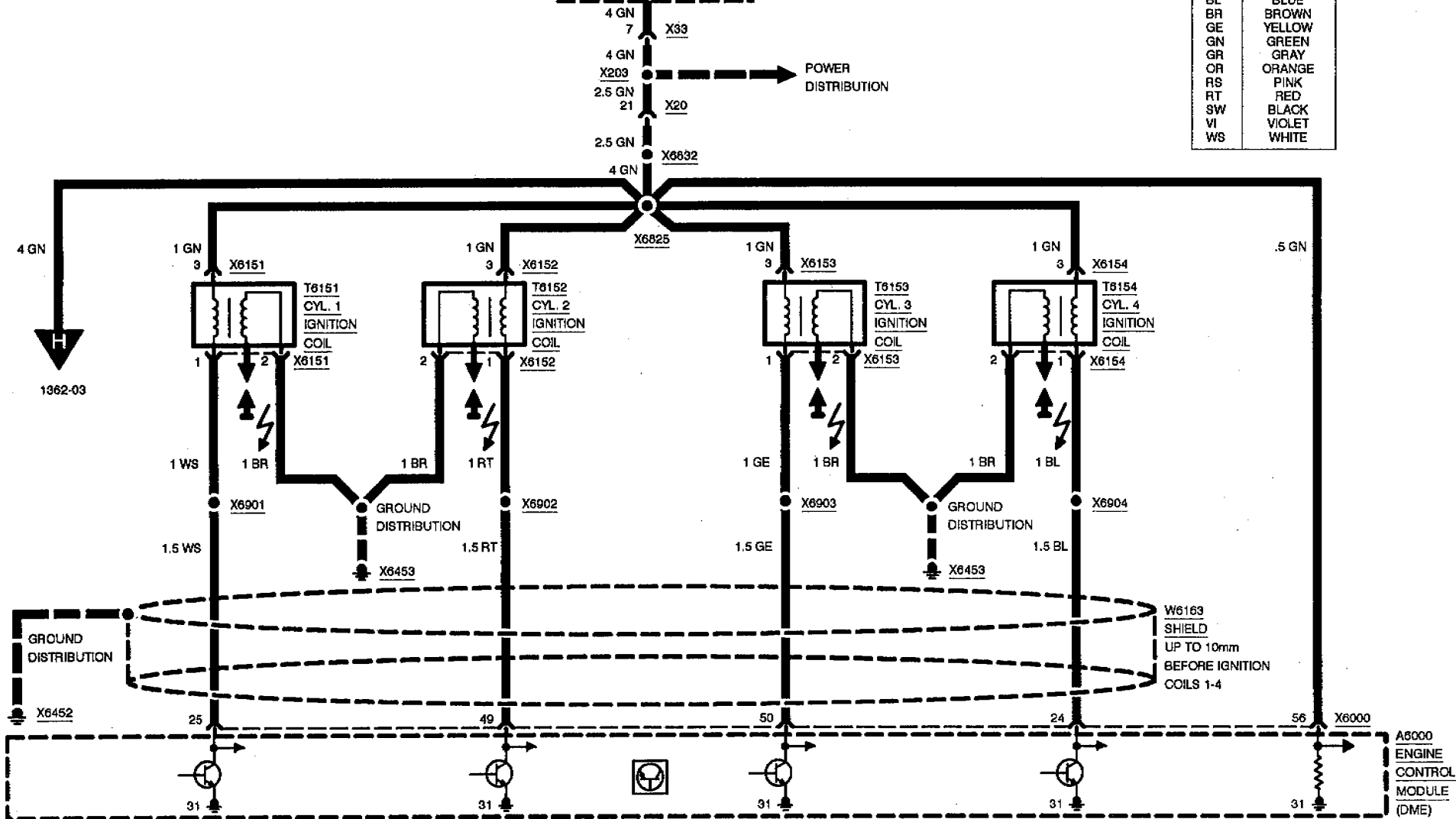
740i/L

## IGNITION COILS

HOT AT ALL TIMES



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



12/93

1362-02

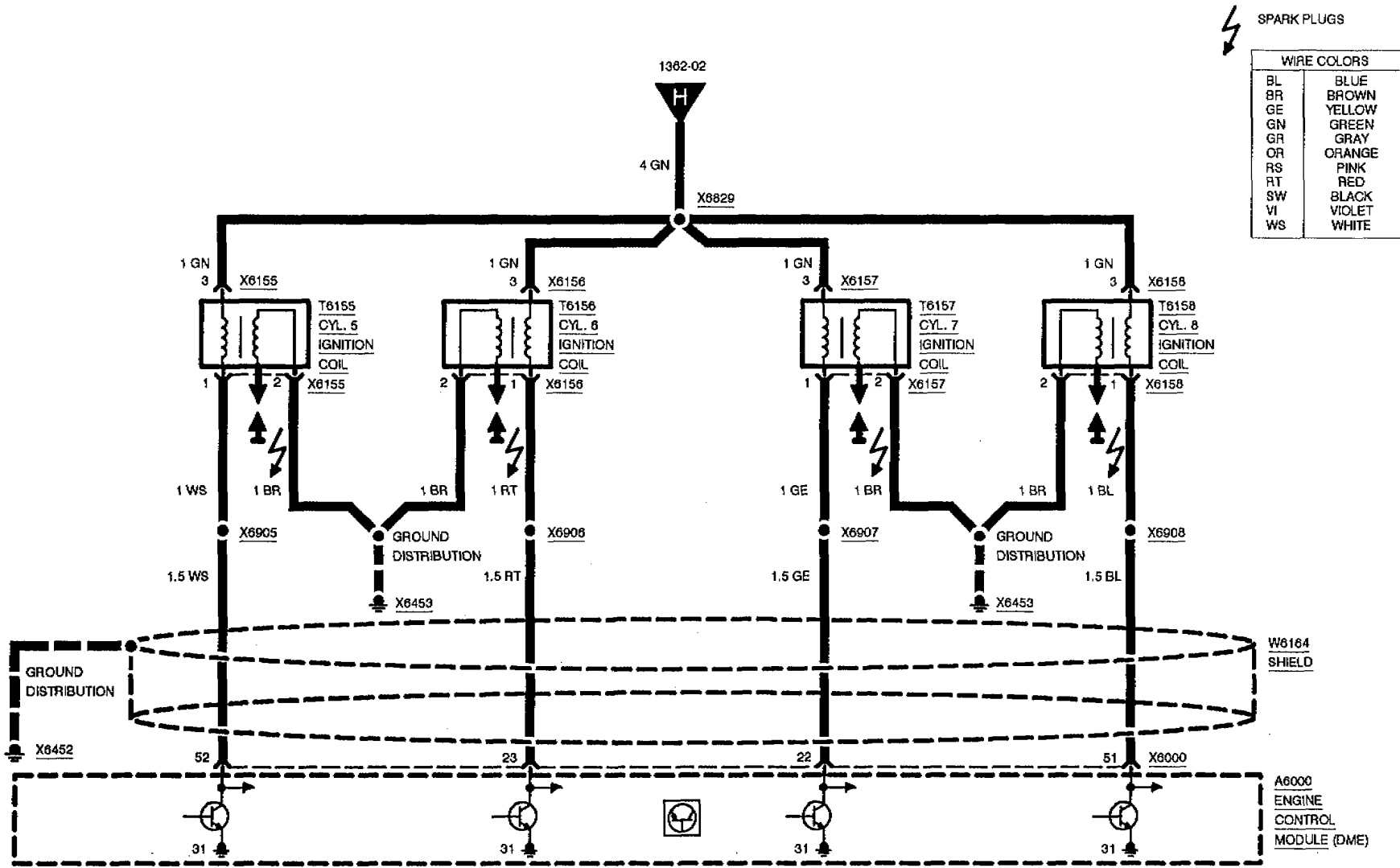
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# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYL. M60)

740i/L

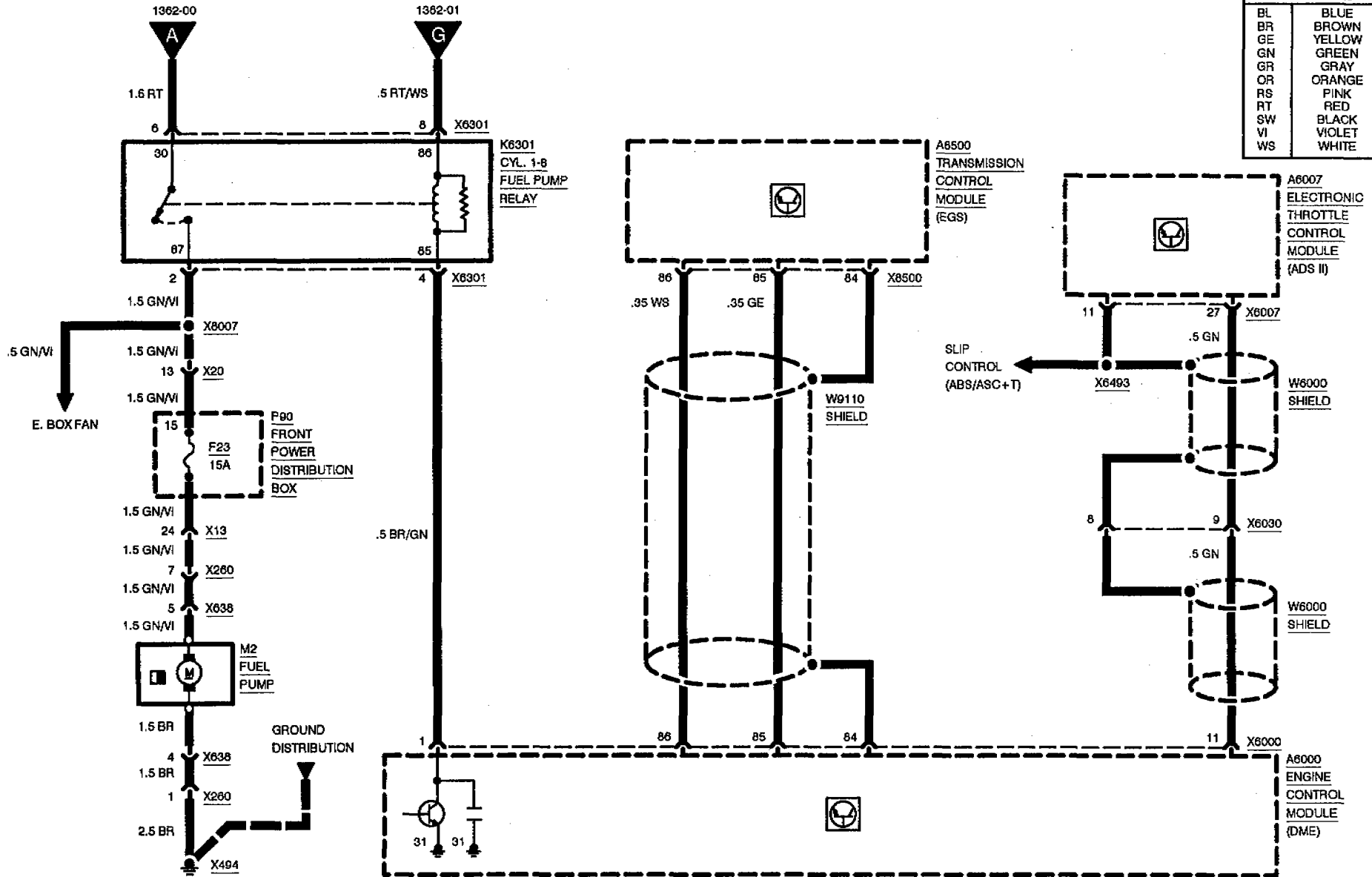
## IGNITION COILS





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

740i/L



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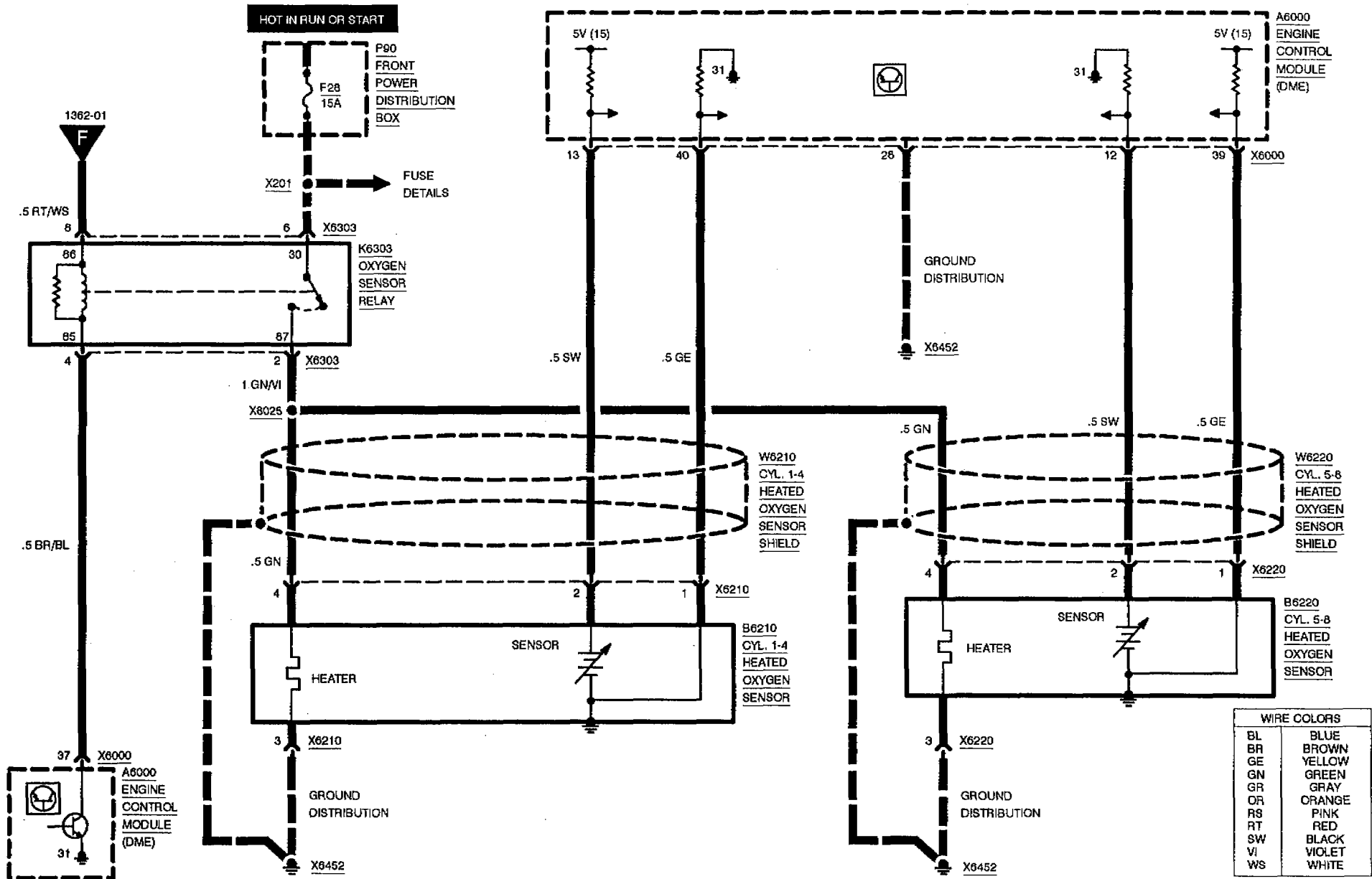
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93/94



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

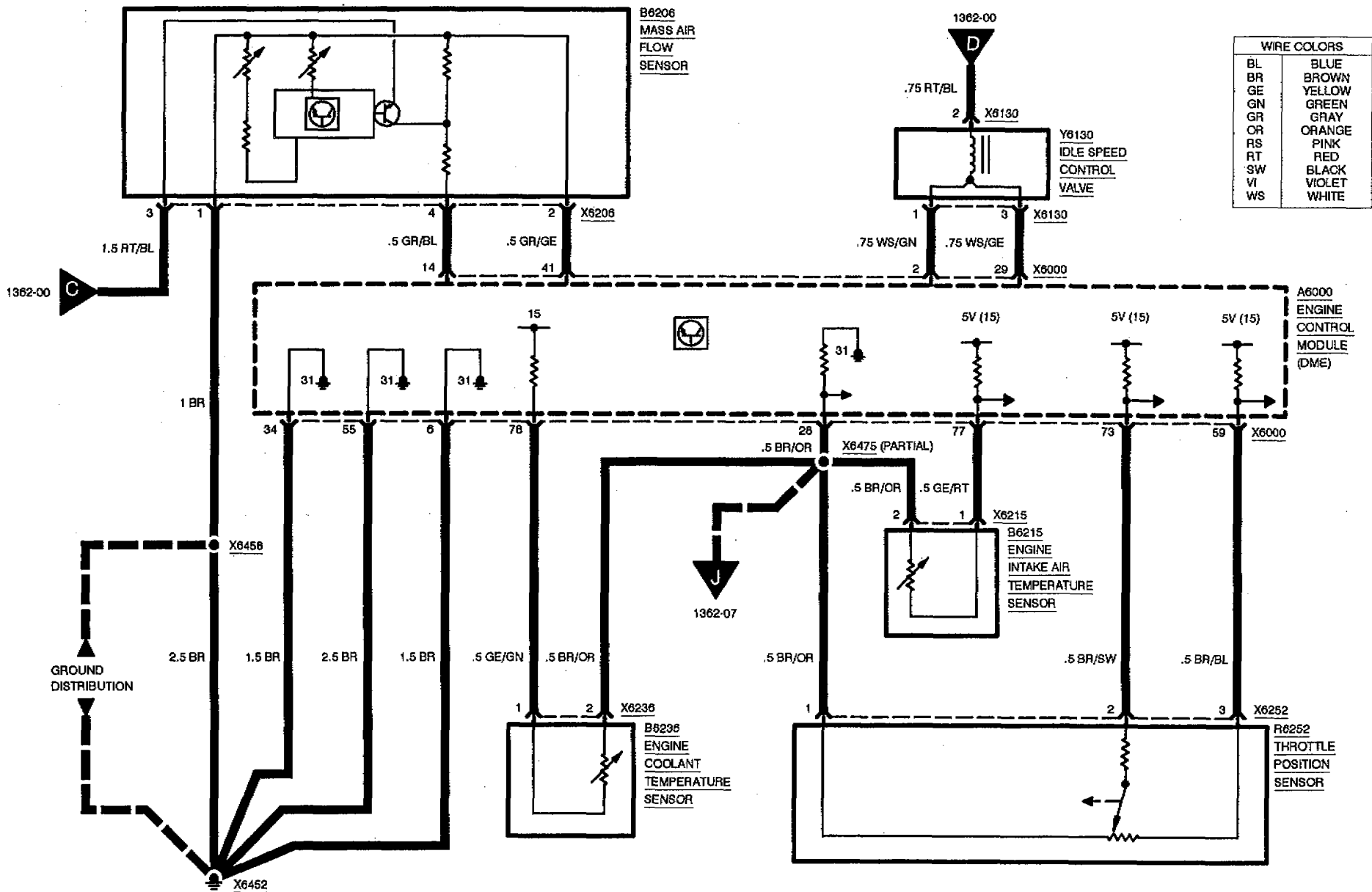
740i/L





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

740i/L



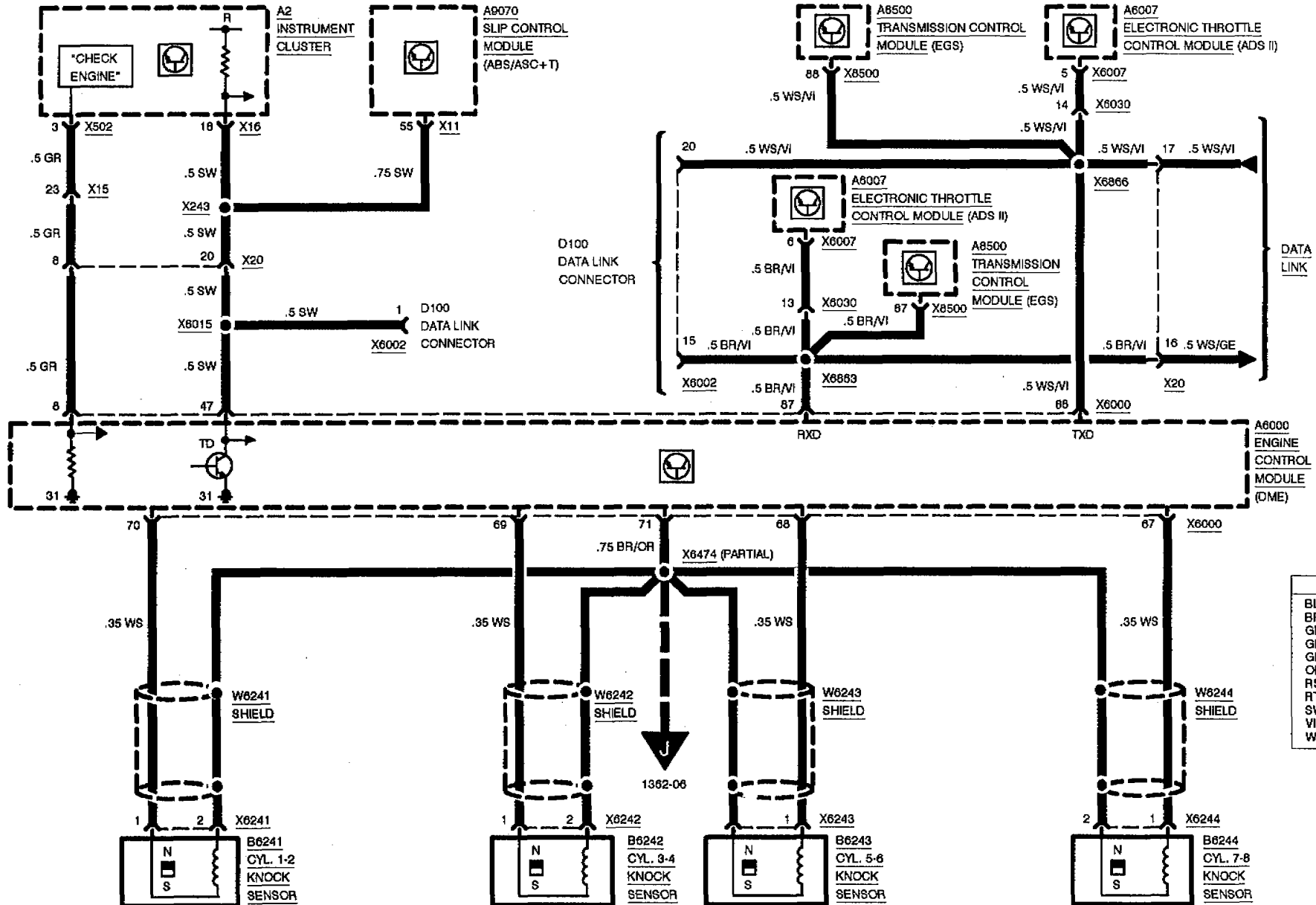
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

12/93

1362-06

93/94

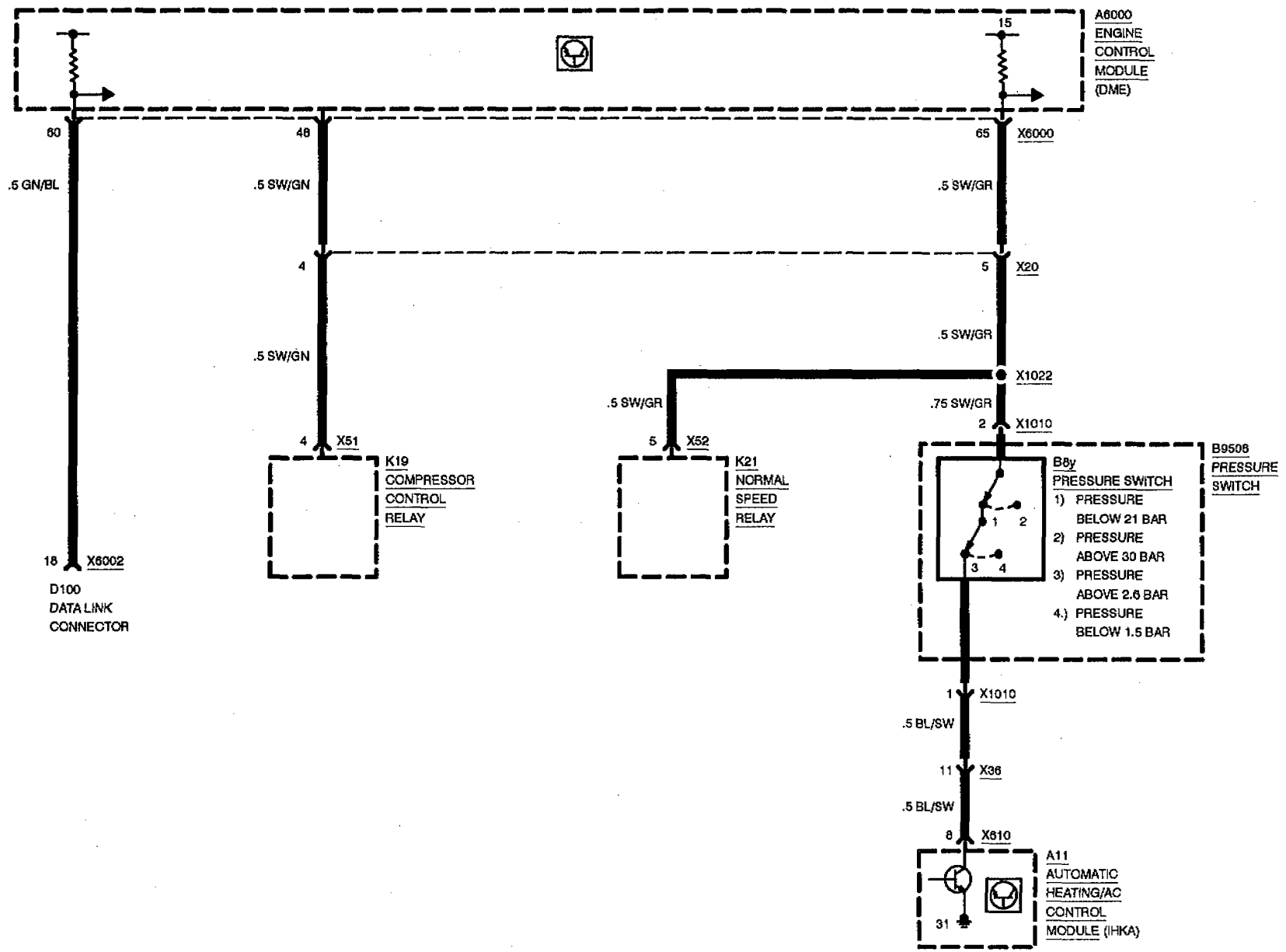






# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYL. M60)

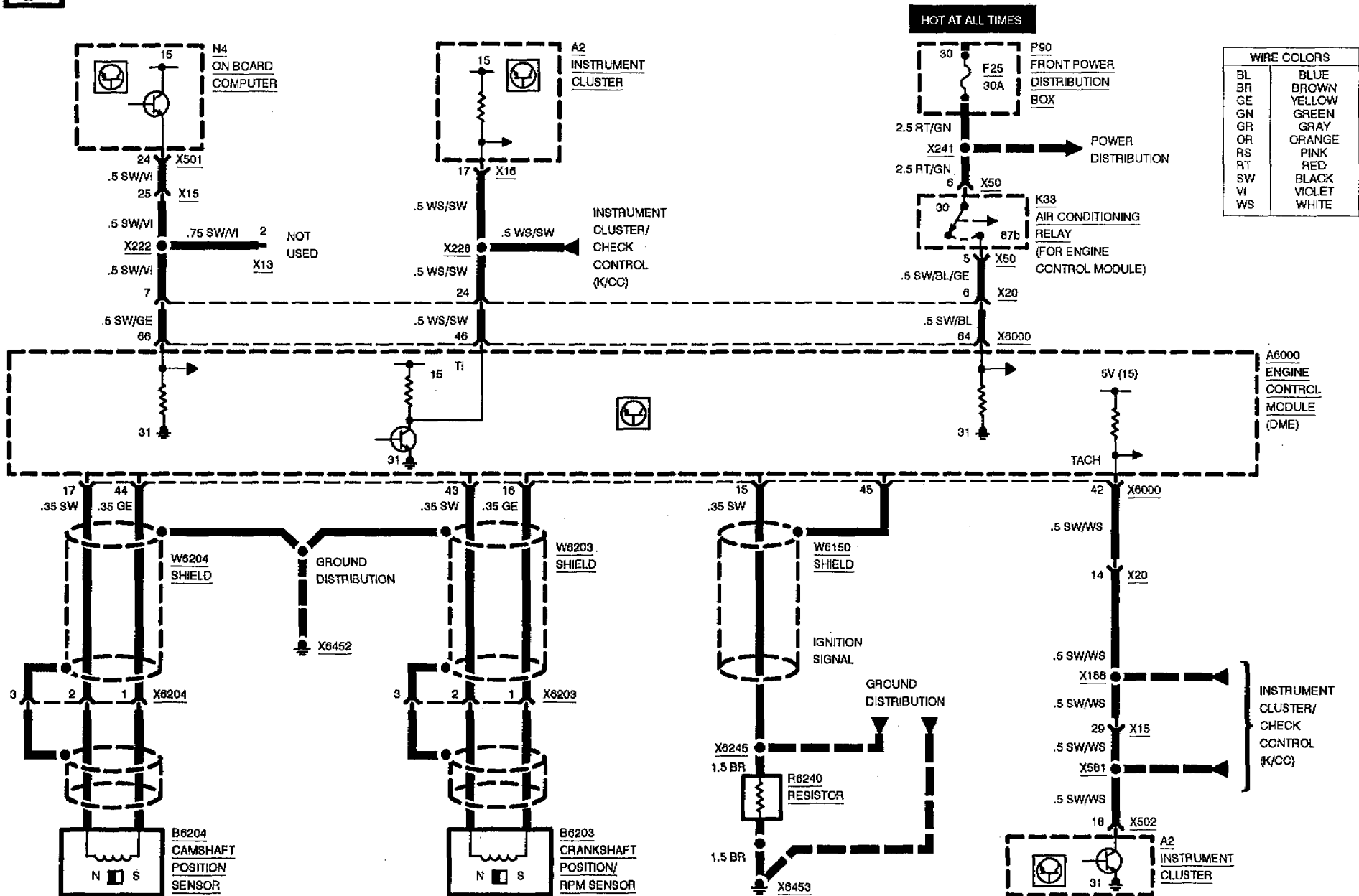
740i/L



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1362-08

93/94

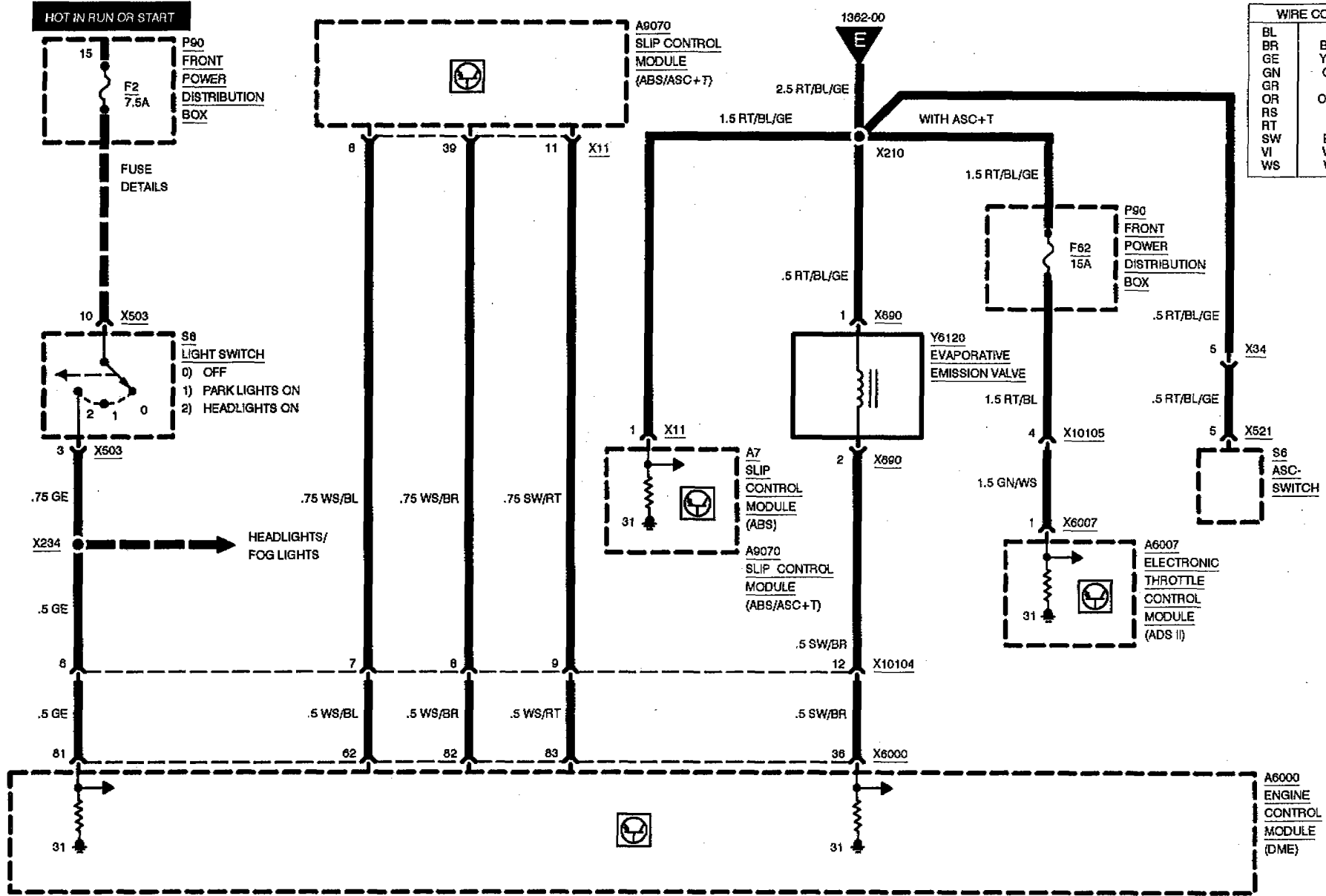




# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYL. M60)

740i/L

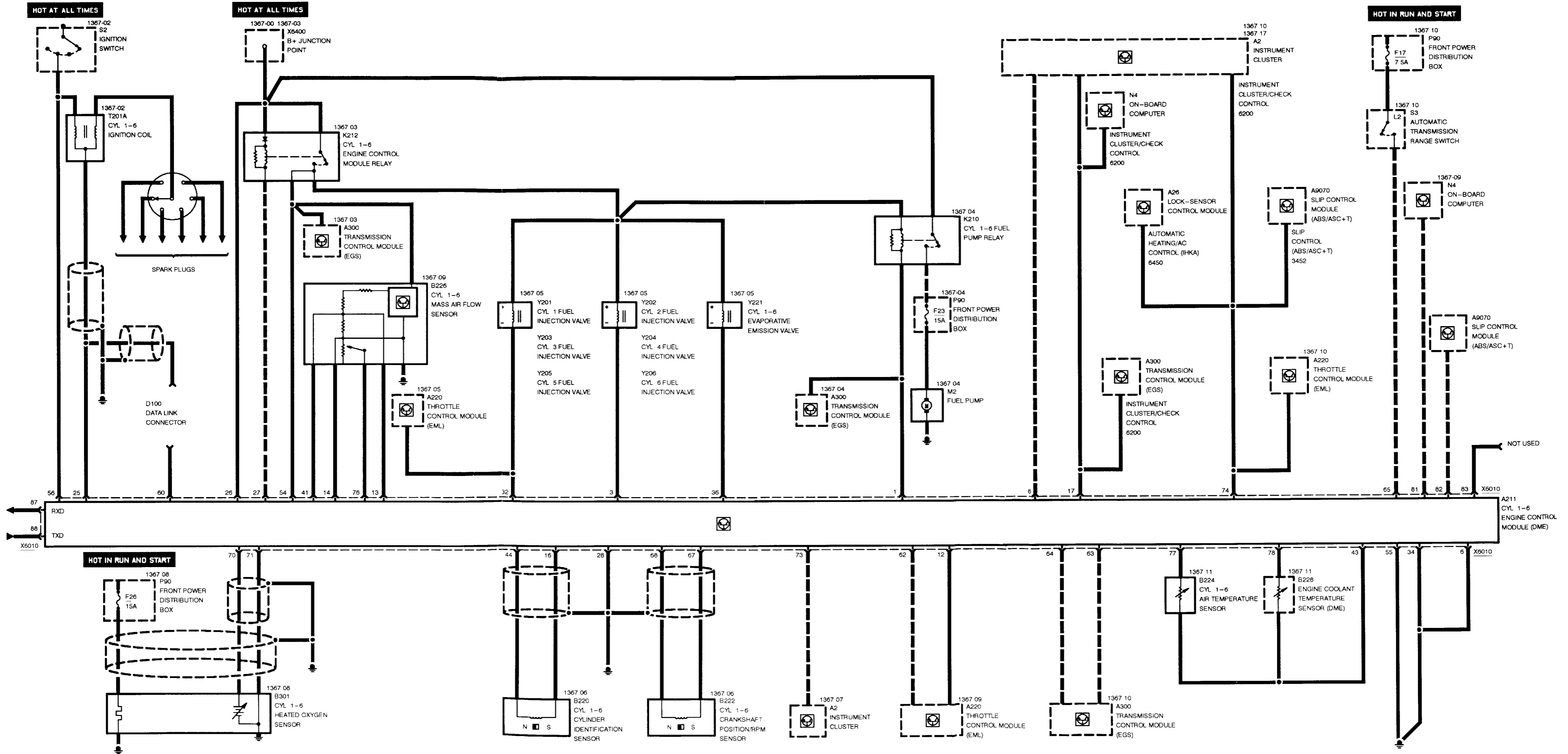
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

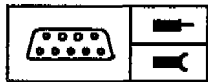


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1362-10

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## Pin Assignments

### X6010

Pin	Type	Description/Function	Connection
1	A	EKP relay and TR signal (crankshaft reference)	EKP relay and EGS control module torque converter clutch
2		Not used	
3	A	Fuel injection valves Cyl. 2 - 4 - 6	Fuel injection valves
4		Not used	
5		Not used	
6	M	Ground, injection valves output stages	Ground point, X6452
7		Not used	
8	A	CARB-lamp	Instrument cluster, A2
9		Not used	
10		Not used	
11		Not used	
12	E	Full load signal	Electronic throttle control module, A220
13	A	Free combustion	Cyl. 1 - 6 mass air flow sensor, B226
14	M	Ground, mass air flow sensor	Cyl. 1 - 6 mass air flow sensor, B226
15		Not used	
16	E	Cylinder reference signal	Cyl. 1 - 6 cylinder identification sensor, B220
17	A	Ti measuring signal (KVA signal fuel consumption signal)	Instrument cluster, A2
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25	A	Ignition terminal 1	Cyl. 1 - 6 ignition coil, T201A
26	E	Continuous plus supply terminal 30	Front power distribution box
27	A	Signal Cyl. 1 - 6 engine control module relay	Cyl. 1 - 6 engine control module relay, K212

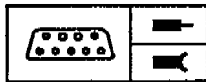
E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
28	M	Ground for electronics and shields	Shields and ground point, X6452
29		Not used	
30		Not used	
31		Not used	
32	A	Fuel Injection valves Cyl. 1 - 3 - 5	Fuel injection valves
33		Not used	
34	M	Ground	Ground point, X6452
35		Not used	
36	A	Signal, Cyl. 1 - 6 evaporative valve emission	Cyl. 1 - 6 evaporative emission valve, Y221
37		Not used	
38		Not used	
39		Not used	
40		Not used	
41	E	Signal, mass air flow sensor	Cyl. 1 - 6 mass air flow sensor, B226
42		Not used	
43	M	Ground for sensors	Temperature sensors, B224, B228
44	E	Cylinder reference signal	Cyl. 1 - 6 cylinder identification sensor, B220
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	E	Signal from engine control module relay	Engine control module relay, K212
55	M	Ground	Ground point, X6452
56	E	Ignition terminal 15	Ignition switch, S2
57		Not used	
58		Not used	

E = Input, A = Output, M = Ground



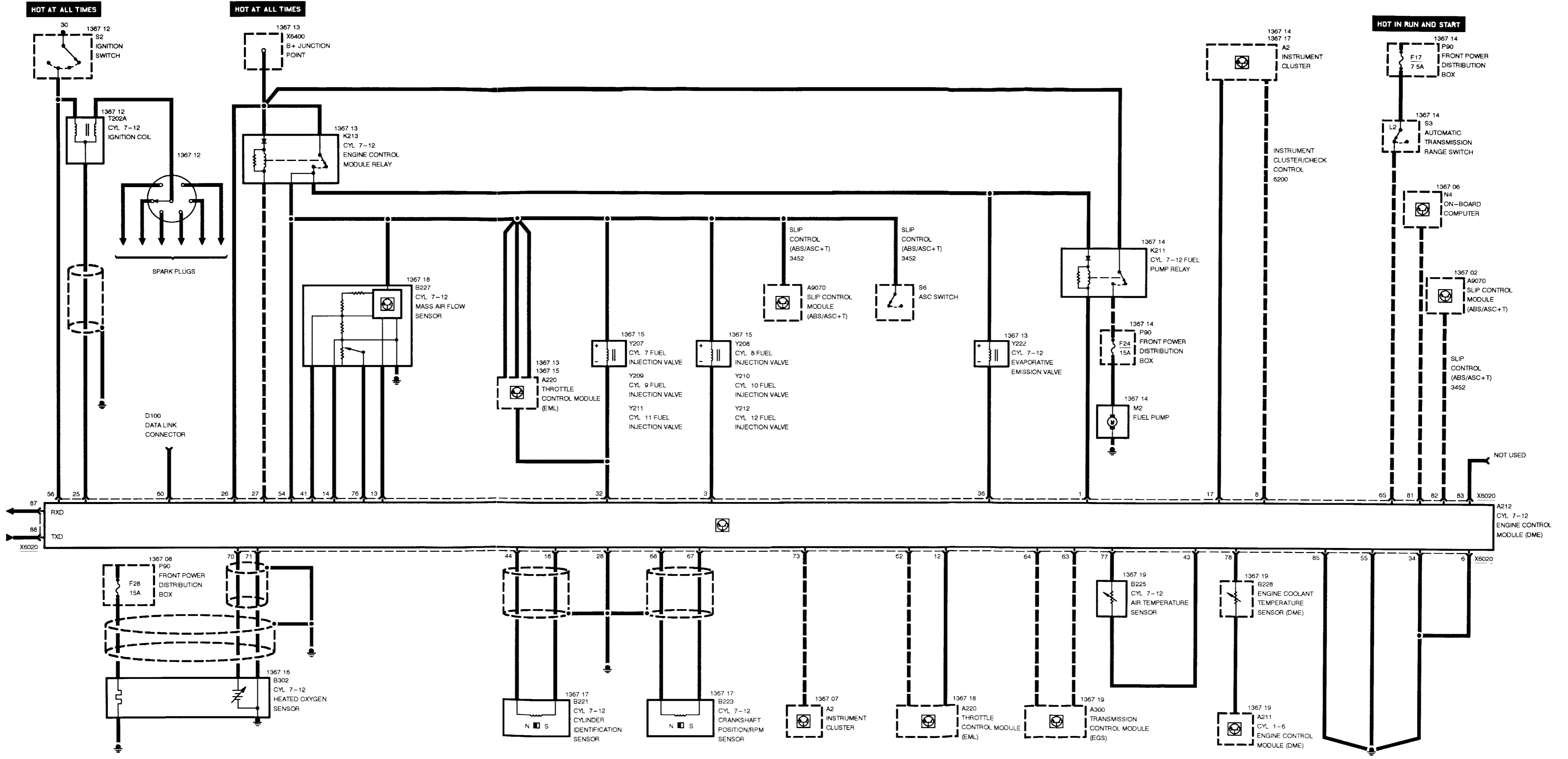
## Pin Assignments

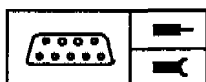
Pin	Type	Description/Function	Connection
59		Not used	
60	E	Programming voltage	Data link connector
61		Not used	
62	E	Idle signal	Electronic throttle control module, A220
63	E	Torque converter clutch	Transmission control module, A300
64	E	Ignition timing intervention	Transmission control module, A300
65	E	Drive range P/N switch	Automatic transmission range switch, S3
66		Not used	
67	E	Signal, crankshaft RPM	Cyl. 1 - 6 crankshaft position/RPM sensor, B222
68	E	Signal crankshaft RPM	Cyl. 1 - 6 crankshaft position/RPM sensor, B222
69		Not used	
70	E	Oxygen sensor signal	Cyl. 1 - 6 heated oxygen sensor, B301
71	M	Ground oxygen sensor	Cyl. 1 - 6 heated oxygen sensor, B301
72		Not used	
73	E	Speed A-signal	Instrument cluster, A2
74	E	Signal engine speed (RPM)	Instrument cluster, A2
75		Not used	
76	E	Idle CO-potentiometer	Cyl. 1 - 6 mass air flow sensor, B226
77	E	Signal, air intake temperature	Cyl. 1 - 6 engine intake air temperature sensor, B224
78	E	Signal, engine temperature	Engine coolant temperature sensor, B228
79		Not used	
80		Not used	
81	E	Signal, hood and radio	On-board computer, N4
82	E	Signal, ABS	Slip control module (ABS/ASC+T), A9070
83		Not used	
84		Not used	
85	E	Identifier Cyl. 7 - 12 engine control module	Ground point
86		Not used	
87	A	Diagnosis	Data link connector, RxD
88	E/A	Diagnosis	Data link connector, TxD

E = Input, A = Output, M = Ground







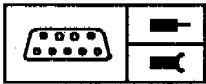


## Pin Assignments

### X6020

Pin	Type	Description/Function	Connection
1	A	EKP relay and TR signal (crankshaft reference)	EKP relay and EGS control module torque converter clutch
2		Not used	
3	A	Fuel injection valves Cyl. 8–10–12	Fuel Injection valves
4		Not used	
5		Not used	
6	M	Ground, injection valves output stages	Ground point, X6452
7		Not used	
8	A	"CHECK ENGINE"–lamp	Instrument cluster, A2
9		Not used	
10		Not used	
11		Not used	
12	E	Full load signal	Electronic throttle control module, A220
13	A	Free combustion	Cyl. 7–12 mass air flow sensor, B227
14	M	Ground, mass air flow sensor	Cyl. 7–12 mass air flow sensor, B227
15		Not used	
16	E	Cylinder reference signal	Cyl. 7–12 cylinder identification sensor, B221
17	A	ti measuring signal (KVA signal fuel consumption signal)	Instrument cluster, A2
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25	A	Ignition terminal 1	Cyl. 7–12 ignition coil, T202A
26	E	Continuous plus supply terminal 30	Front power distribution box
27	A	Signal, Cyl. 7–12 engine control module relay	Cyl. 7–12 engine control module relay, K213

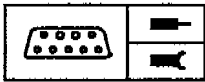
E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
28	M	Ground for electronics and shields	Shields and ground point, X6452
29		Not used	
30		Not used	
31		Not used	
32	A	Fuel injection valves Cyl. 7-9-11	Fuel injection valves
33		Not used	
34	M	Ground	Ground point, X6452
35		Not used	
36	A	Signal, Cyl. 7-12 evaporative emission valve	Cyl. 7-12 evaporative emission valve, Y222
37		Not used	
38		Not used	
39		Not used	
40		Not used	
41	E	Signal, mass air flow sensor	Cyl. 7-12 mass air flow sensor, B227
42		Not used	
43	M	Ground for temperature sensor	Cyl. 7-12 engine intake air temperature sensor, B225
44	E	Cylinder reference signal	Cyl. 7-12 cylinder identification sensor, B221
45		Not used	
46		Not used	
47		Not used	
48		Not used	
49		Not used	
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	E	Signal from engine control module relay	Engine control module relay, K213
55	M	Ground	Ground point, X6452
56	E	Ignition terminal 15	Ignition switch, S5
57		Not used	

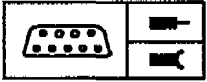
E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
58		Not used	
59		Not used	
60	E	Programming voltage	Diagnostic connector
61		Not used	
62	E	Idle signal	Electronic throttle control module, A220
63	E	Torque converter clutch	Transmission control module, A300
64	E	Ignition timing intervention	Transmission control module, A300
65	E	Drive range P/N switch	Automatic transmission range switch, S3
66		Not used	
67	E	Signal, crankshaft RPM	Cyl. 7–12 crankshaft position/RPM sensor, B223
68	E	Signal, crankshaft RPM	Cyl. 7–12 crankshaft position/RPM sensor, B223
69		Not used	
70	E	Oxygen sensor signal	Cyl. 7–12 heated oxygen sensor, B302
71	M	Ground oxygen sensor	Cyl. 7–12 heated oxygen sensor, B302
72		Not used	
73	E	Speed A–Signal	Instrument cluster, A2
74		Not used	
75		Not used	
76	E	Idle CO-potentiometer	Cyl. 7–12 mass air flow sensor, B227
77	E	Signal intake air temperature	Cyl. 7–12 engine intake air temperature sensor, B225
78	E	Signal engine temperature	Engine coolant temperature sensor, B228
79		Not used	
80		Not used	
81	E	Signal, hood and radio	On board computer, N4
82	E	Signal, ABS	Slip control module (ABS/ASC+T), A9070
83		Not used	
84		Not used	
85	E	Identifier Cyl. 1–6 engine control module	Ground point, X6452
86		Not used	

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
87	A	Diagnosis	Data link connector, RxD
88	E/A	Diagnosis	Data link connector, TxD

E = Input, A = Output, M = Ground

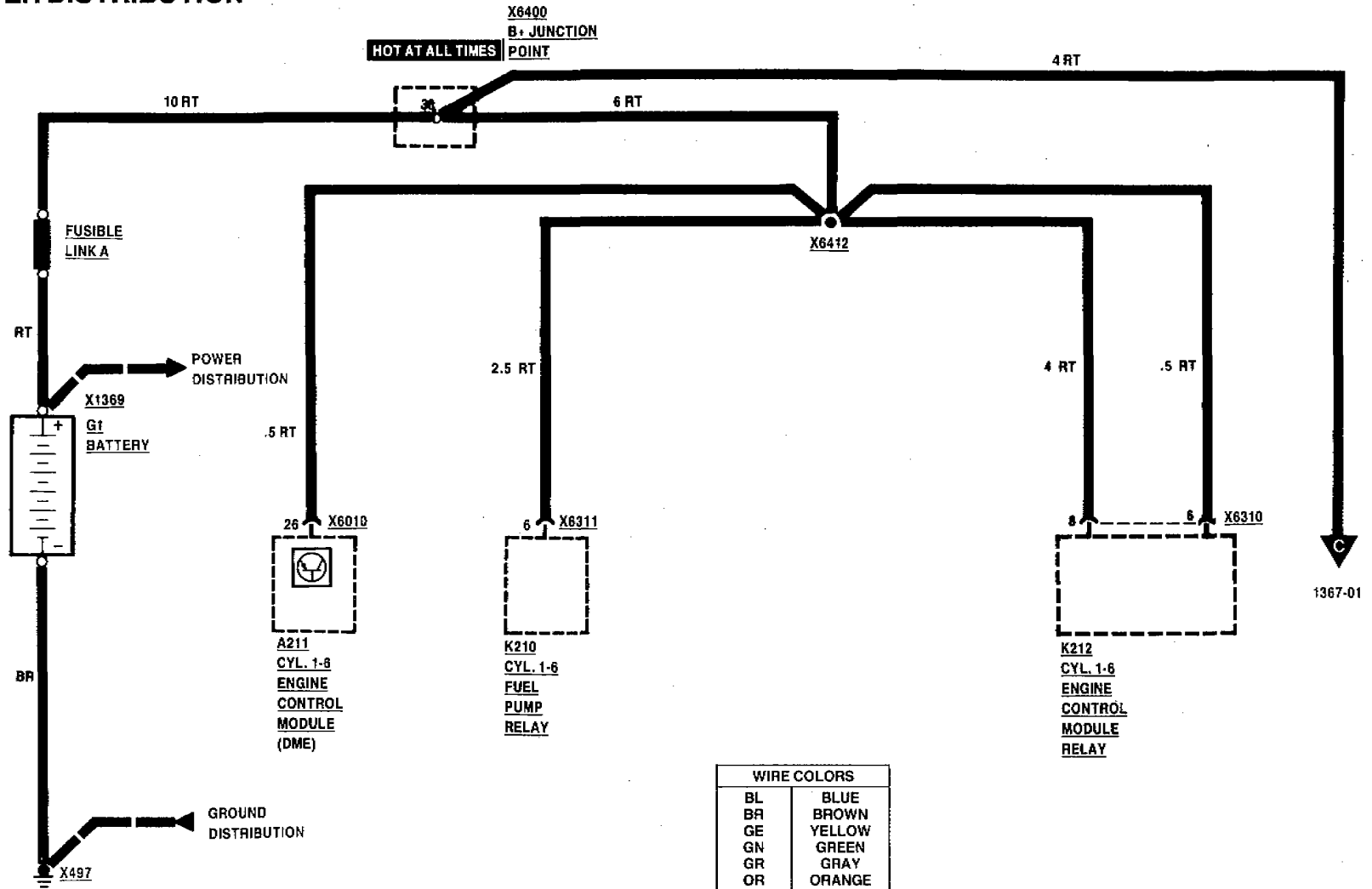




# ENGINE CONTROL SYSTEM (DME/EML 1.7)

750iL

## POWER DISTRIBUTION



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

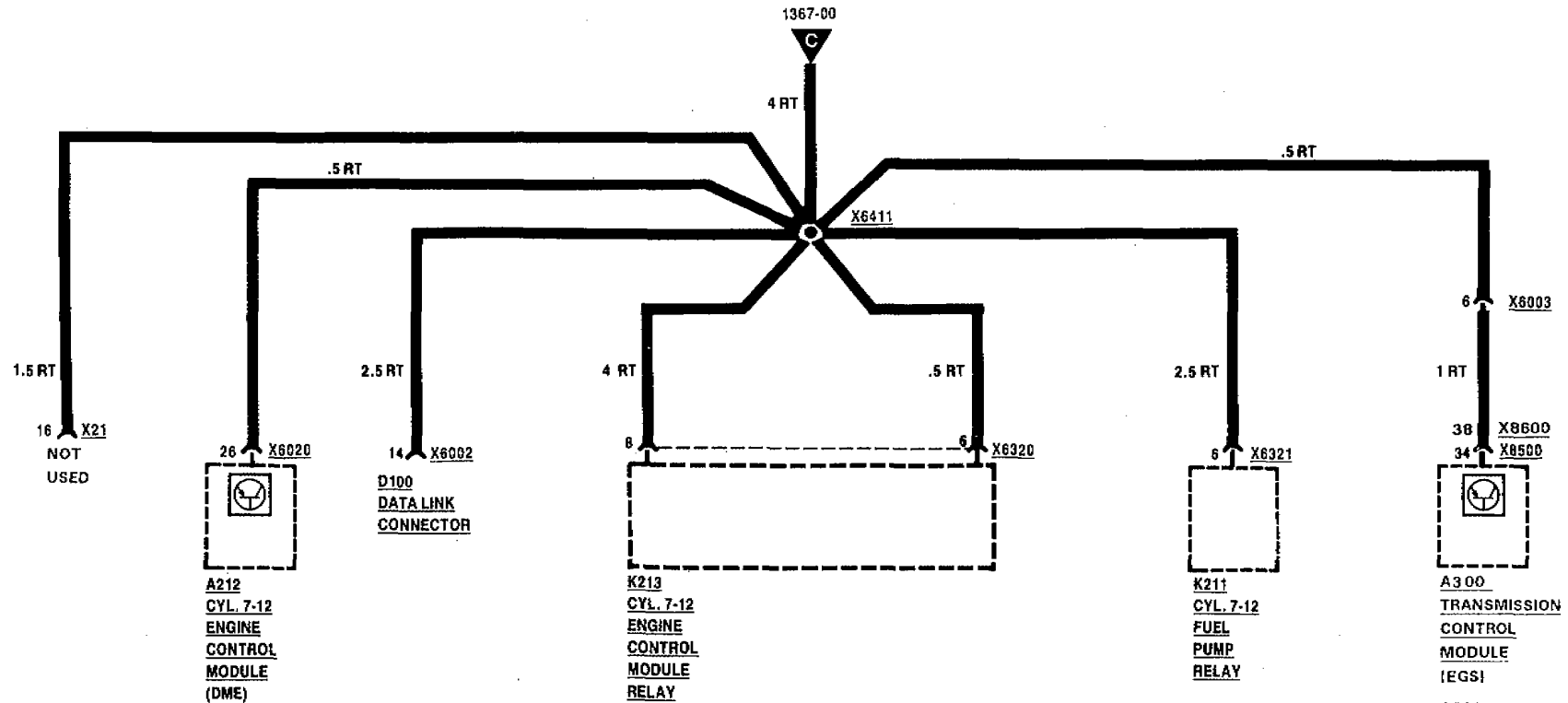




# ENGINE CONTROL SYSTEM (DME/EML 1.7)

## POWER DISTRIBUTION

750iL



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



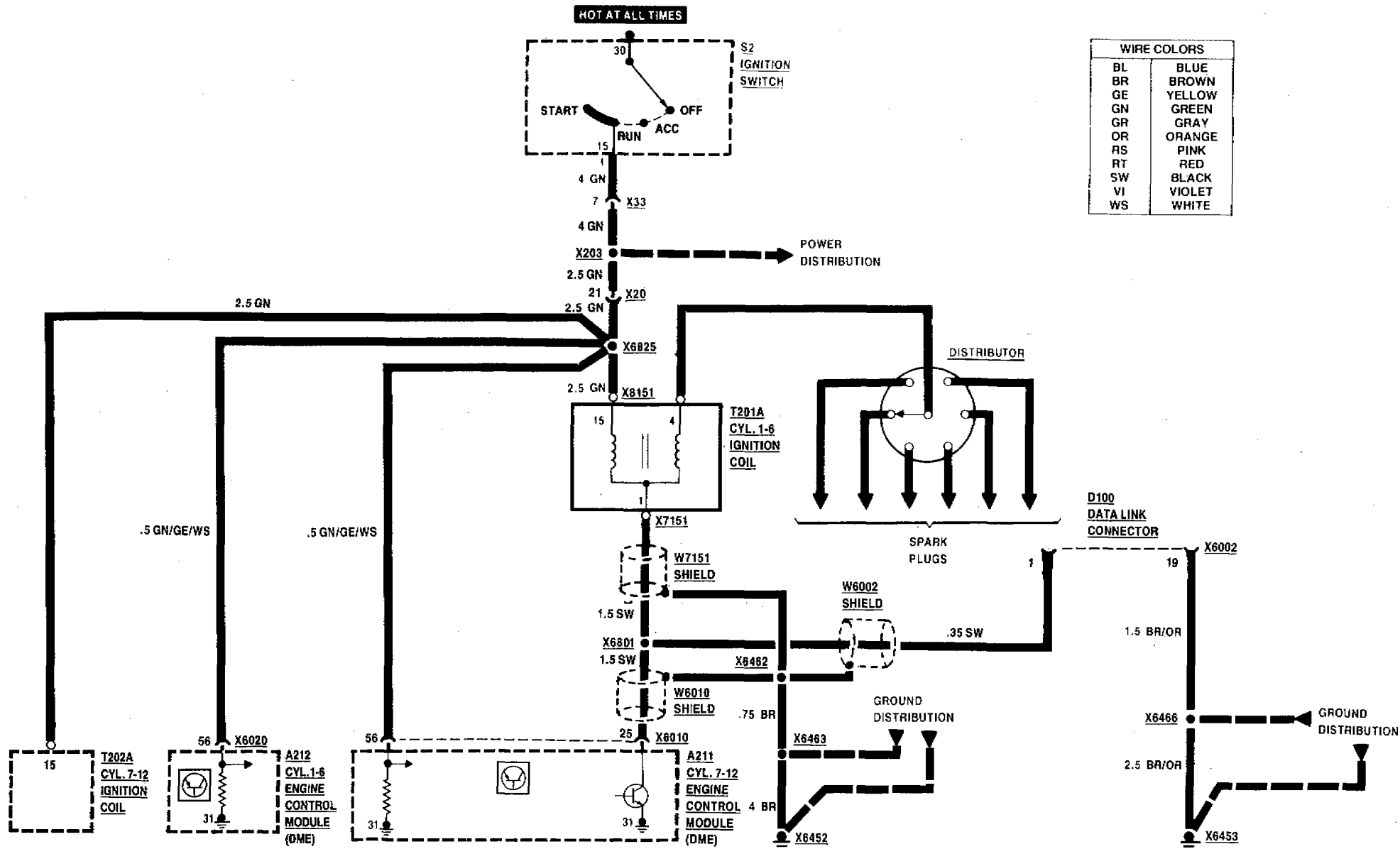
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750iL

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1367-02

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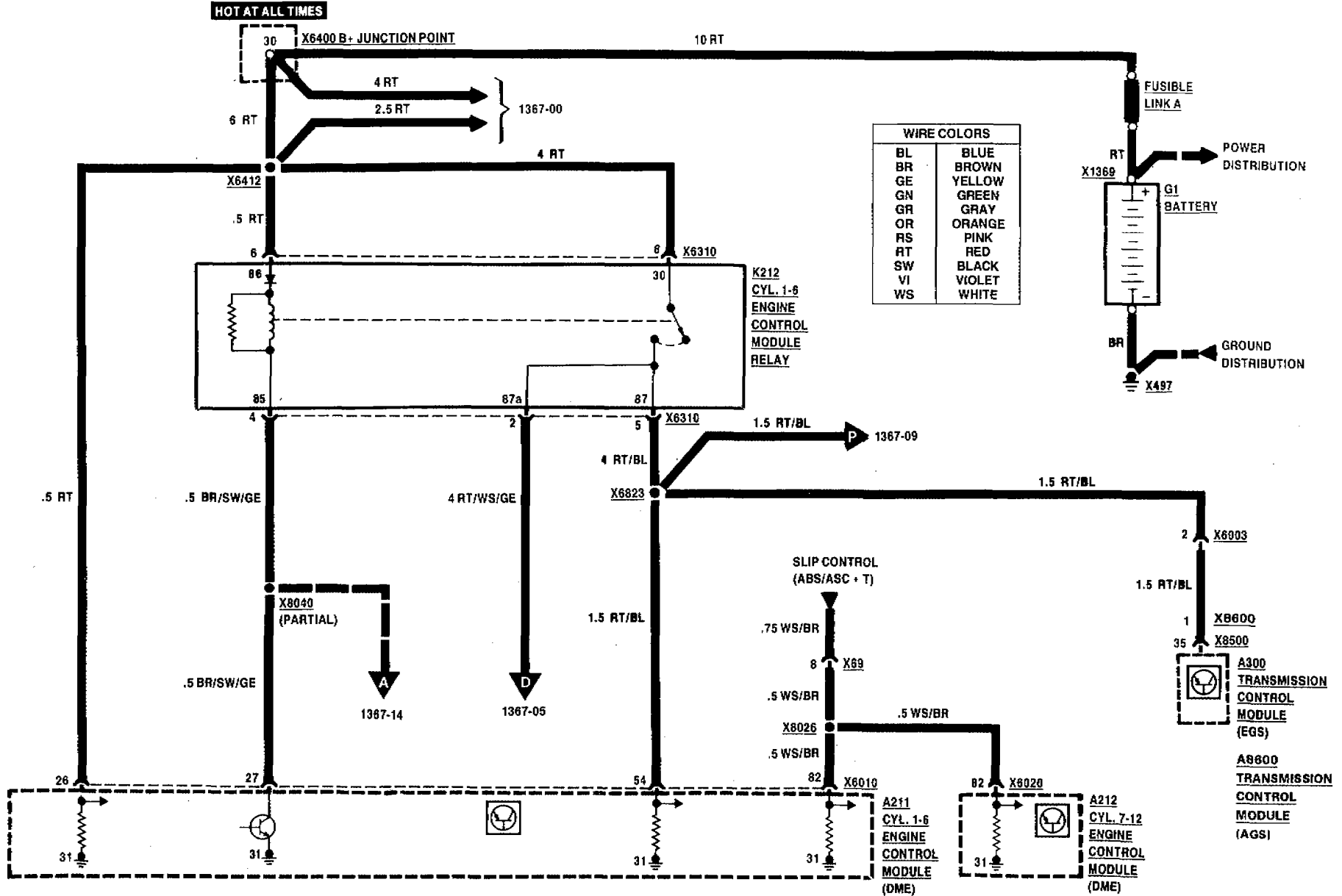




# ENGINE CONTROL SYSTEM (DME/EML 1.7)

750iL

## CONTROL MODULE



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1367-03

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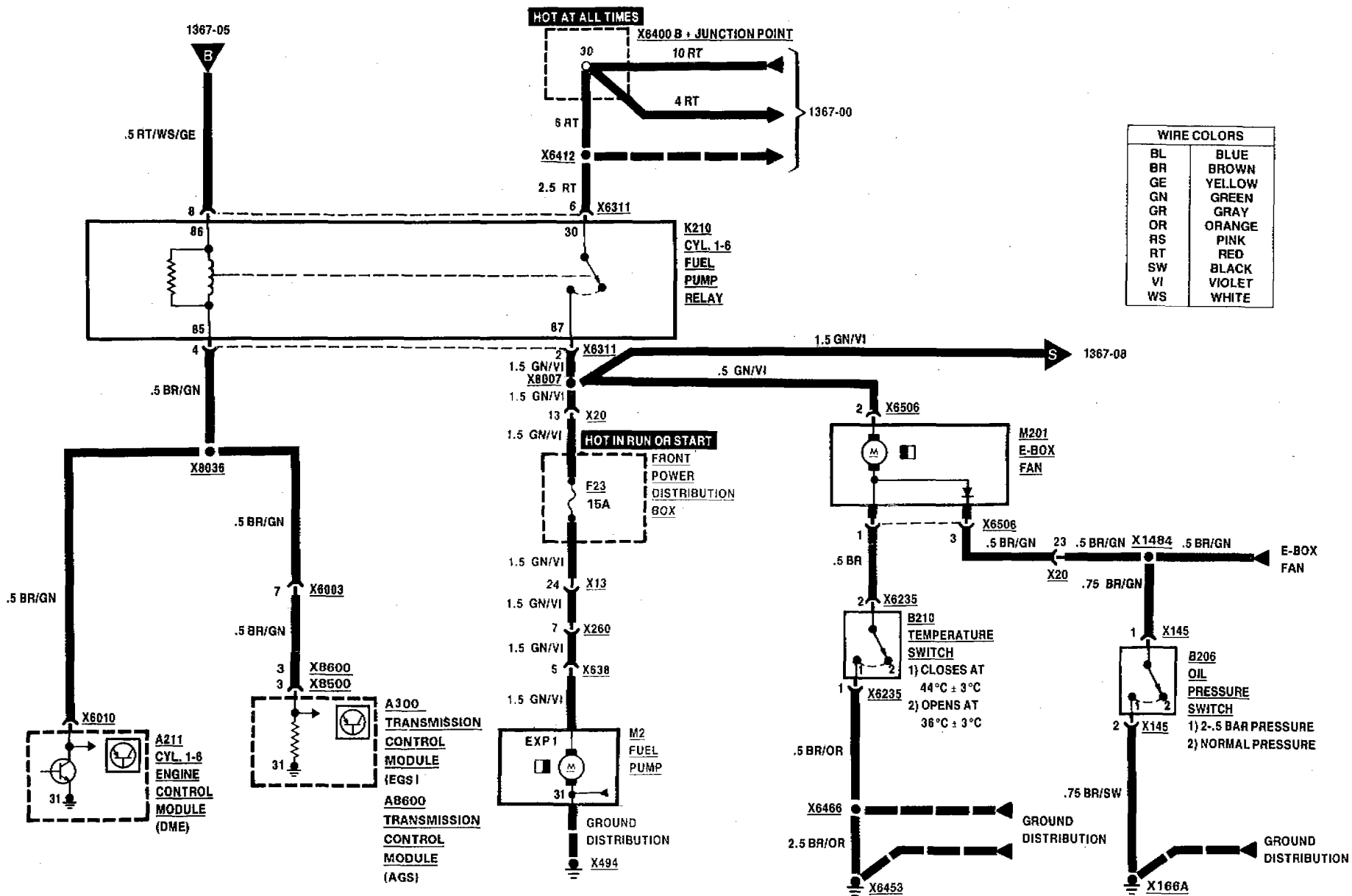
# ENGINE CONTROL SYSTEM (DME/EML 1.7) CONTROL MODULE

750iL

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1367-04

93/94

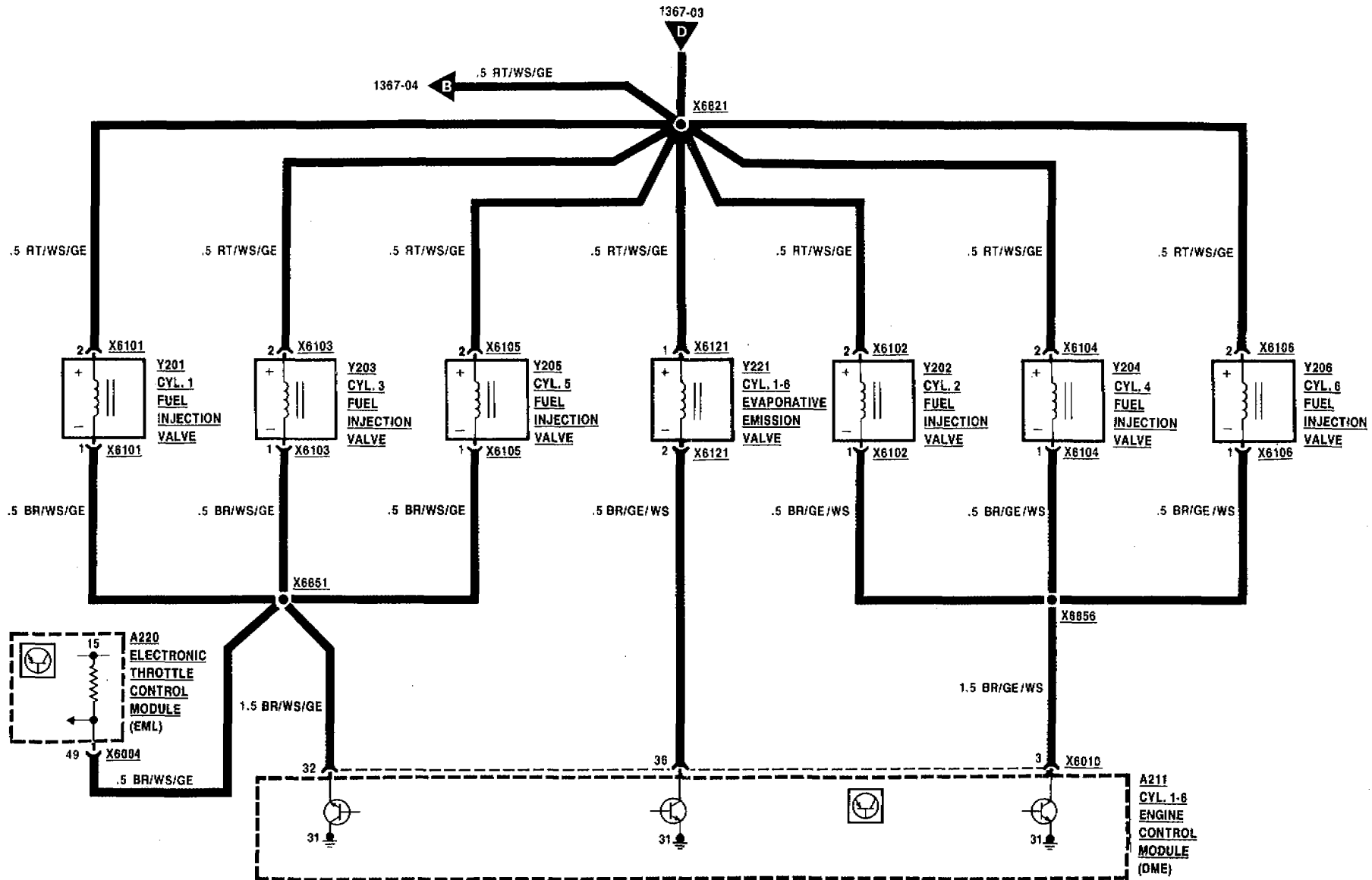


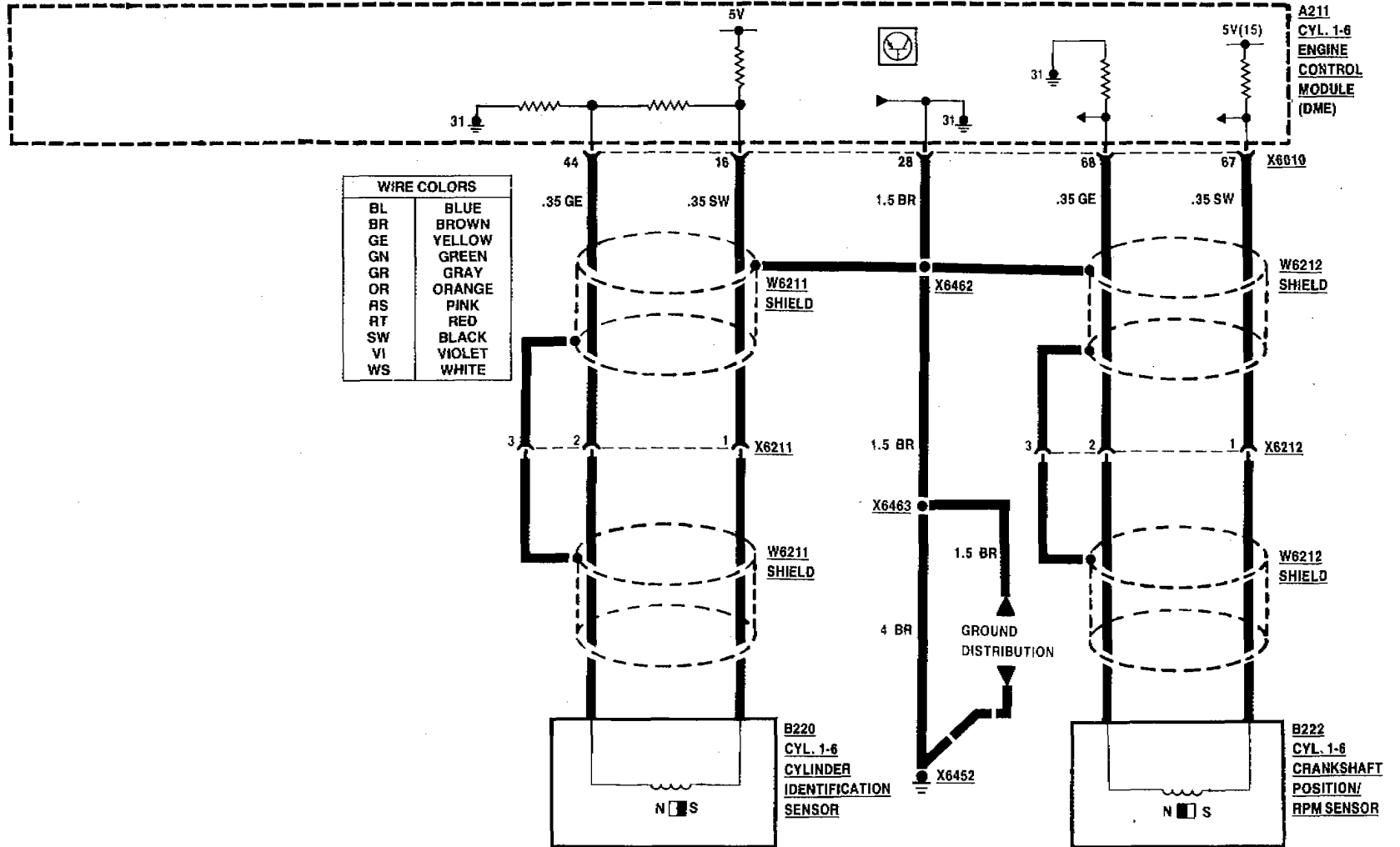


# ENGINE CONTROL SYSTEM (DME/EML 1.7) CONTROL MODULE

750iL

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1367-05  
93/94

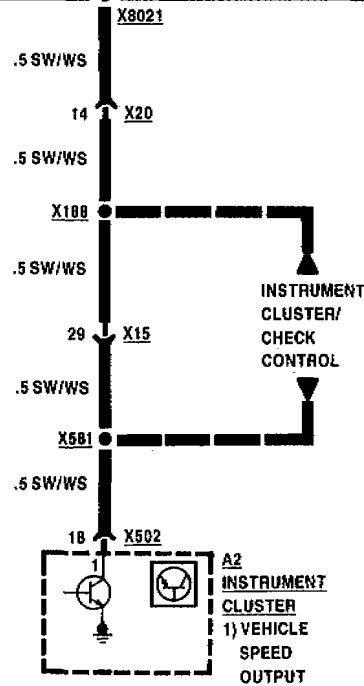
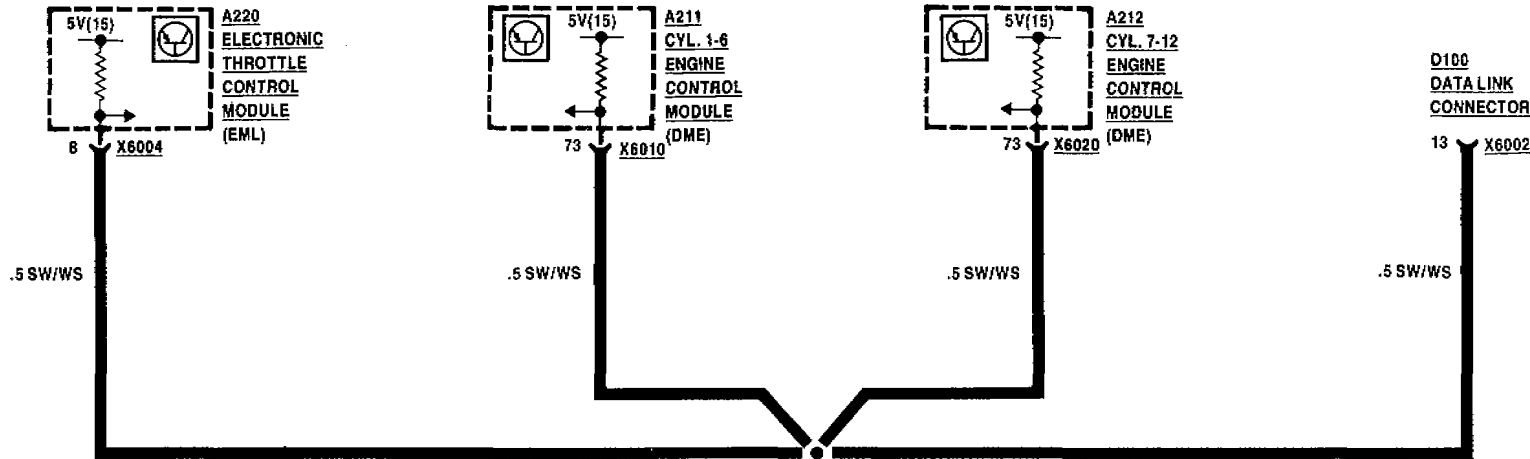






# ENGINE CONTROL SYSTEM (DME/EML 1.7) CONTROL MODULE

750iL



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

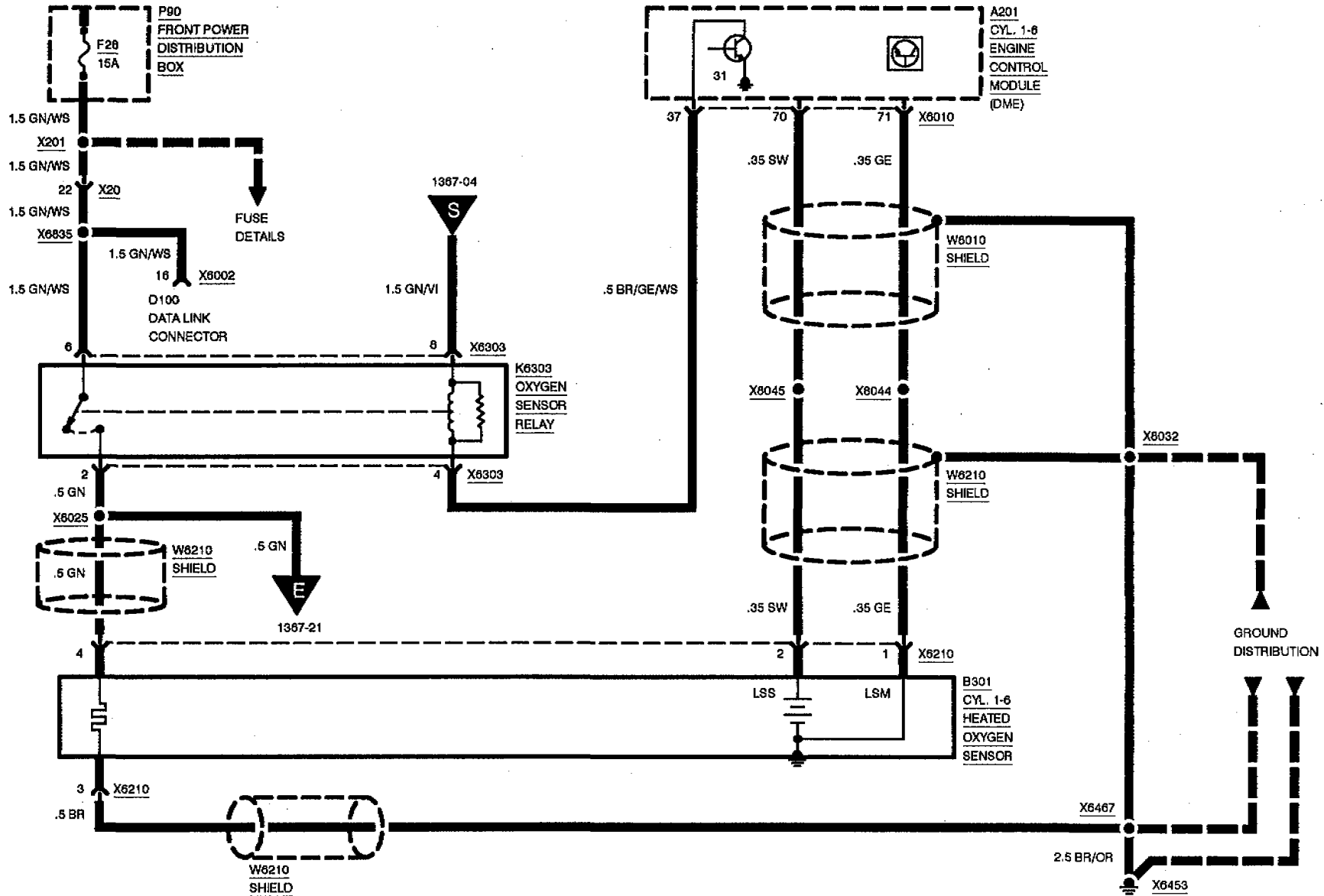


# ENGINE CONTROL SYSTEM (DME/EML 1.7)

750iL

## CONTROL MODULE

HOT IN RUN OR START



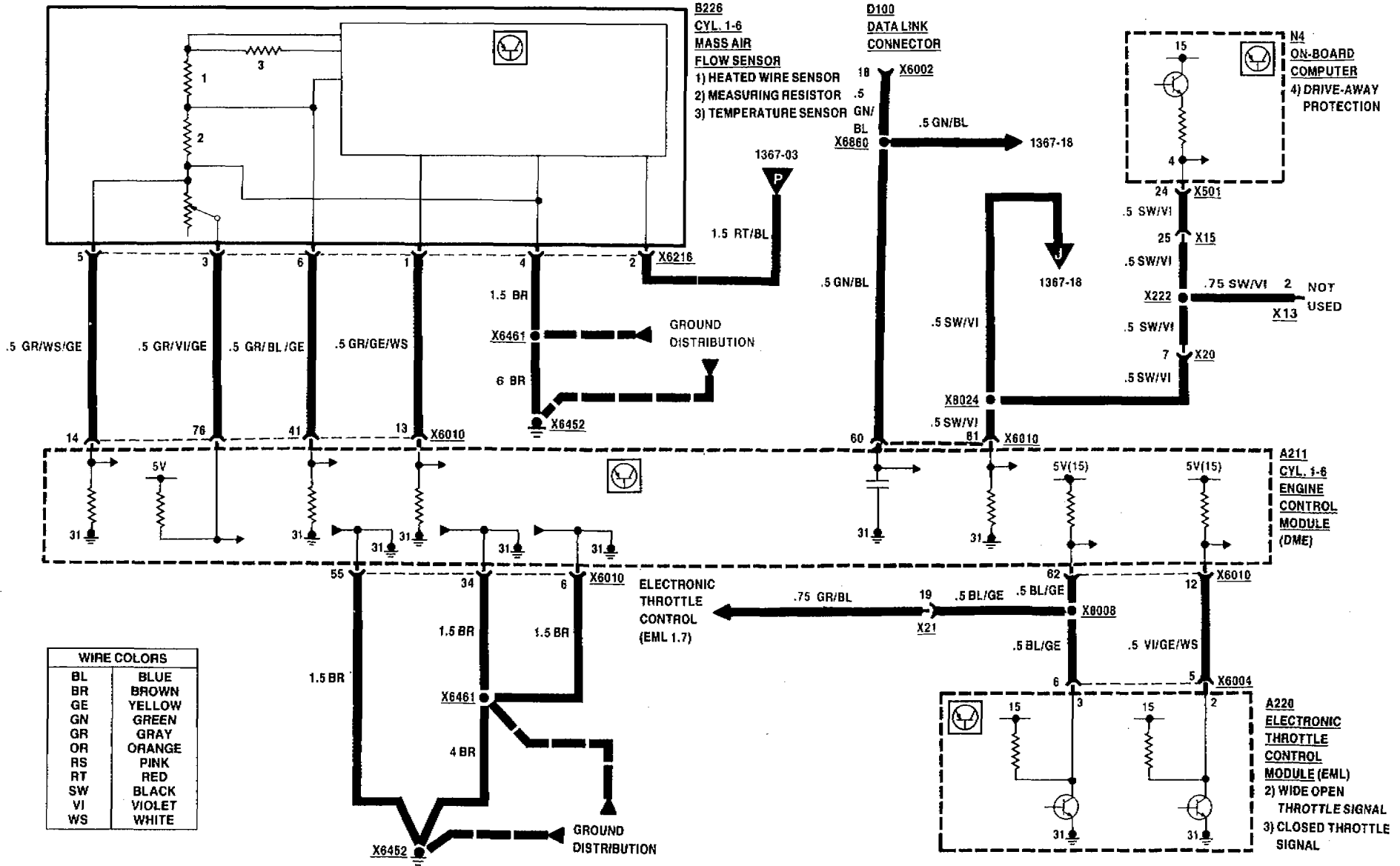




# ENGINE CONTROL SYSTEM (DME/EML 1.7)

## CONTROL MODULE

750iL



12/93

1367-09

93/94

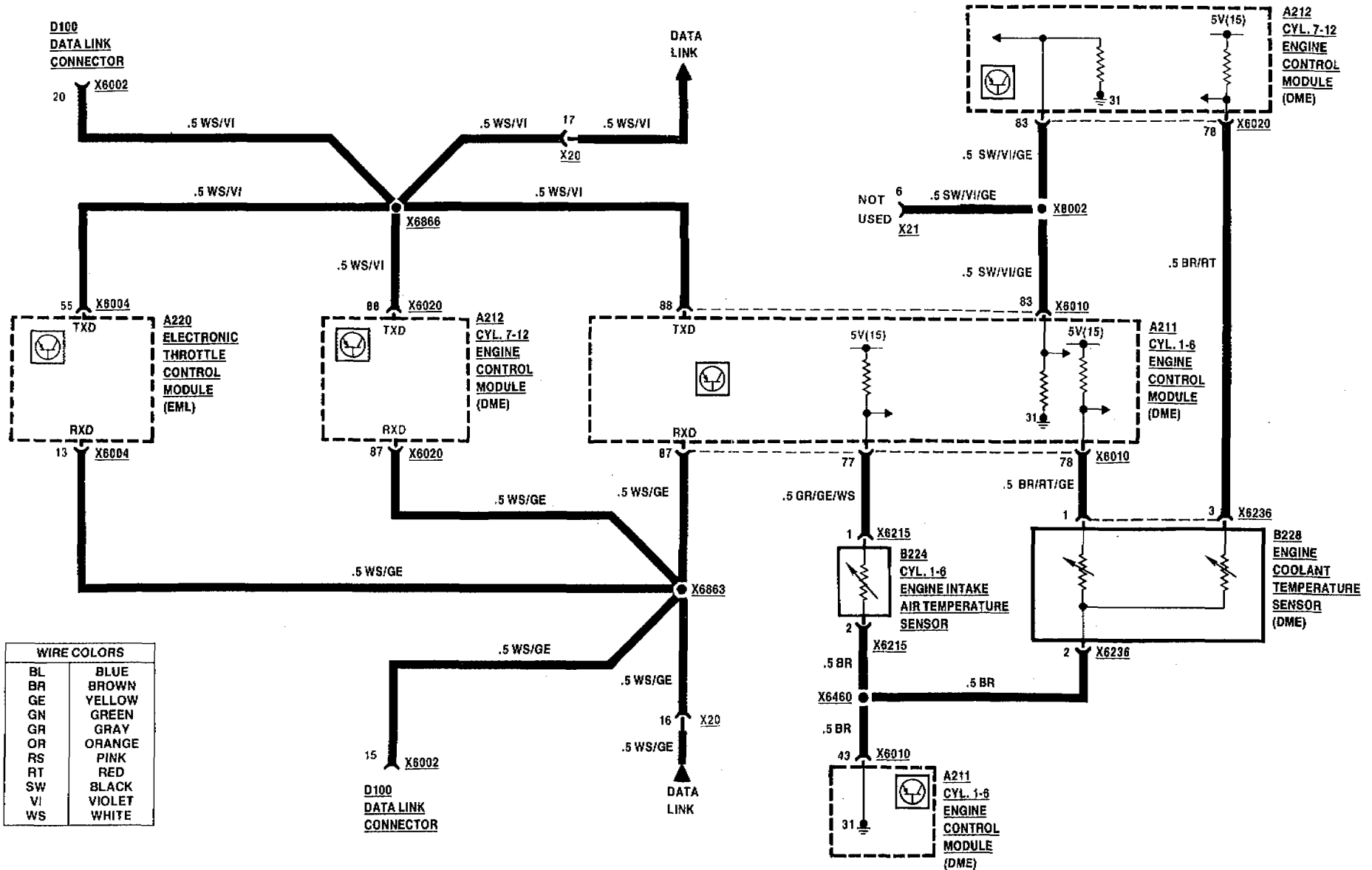




# ENGINE CONTROL SYSTEM (DME/EML 1.7)

## CONTROL MODULE

750iL



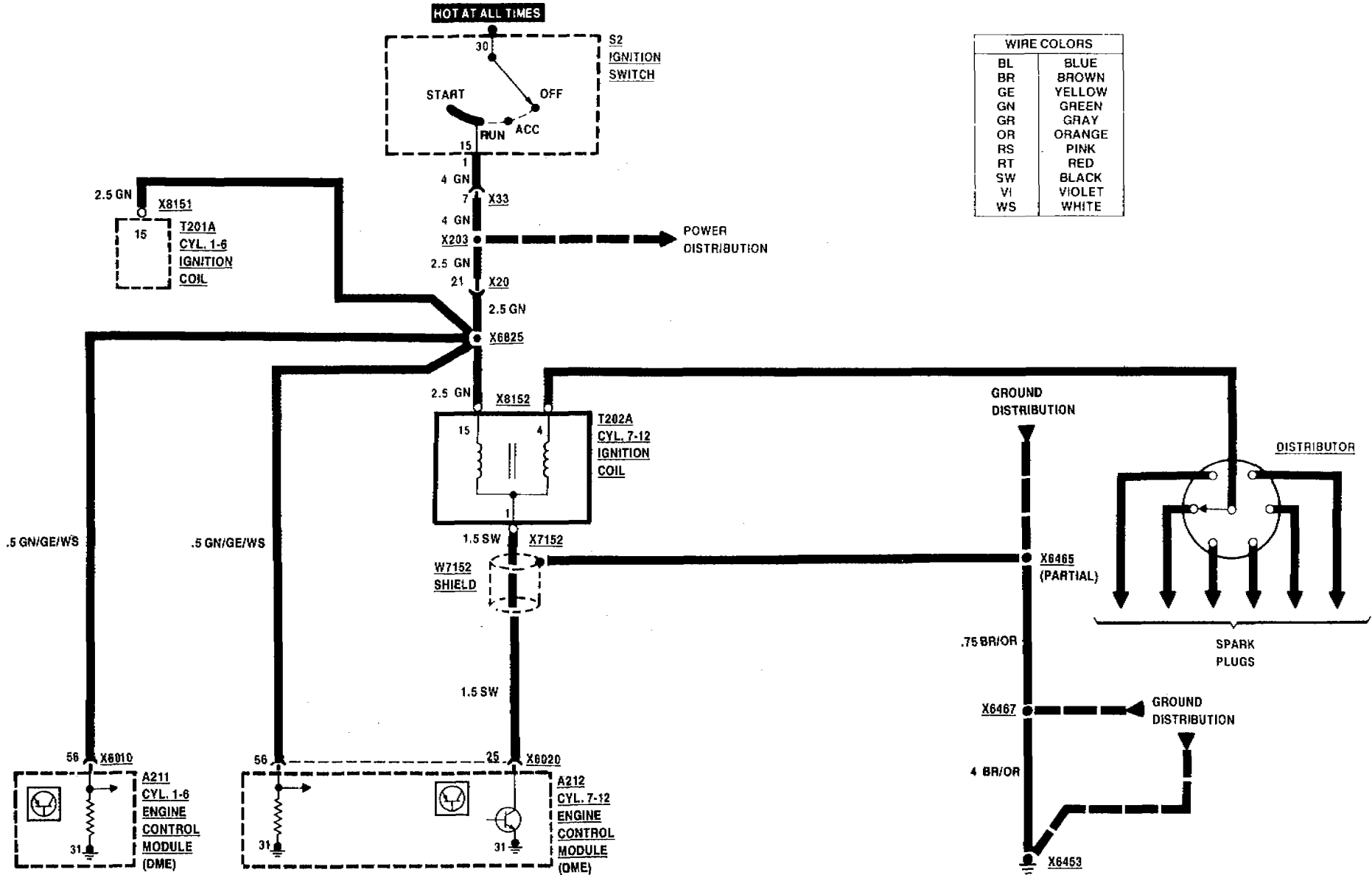




# ENGINE CONTROL SYSTEM (DME/EML 1.7)

750iL

## CONTROL MODULE II



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

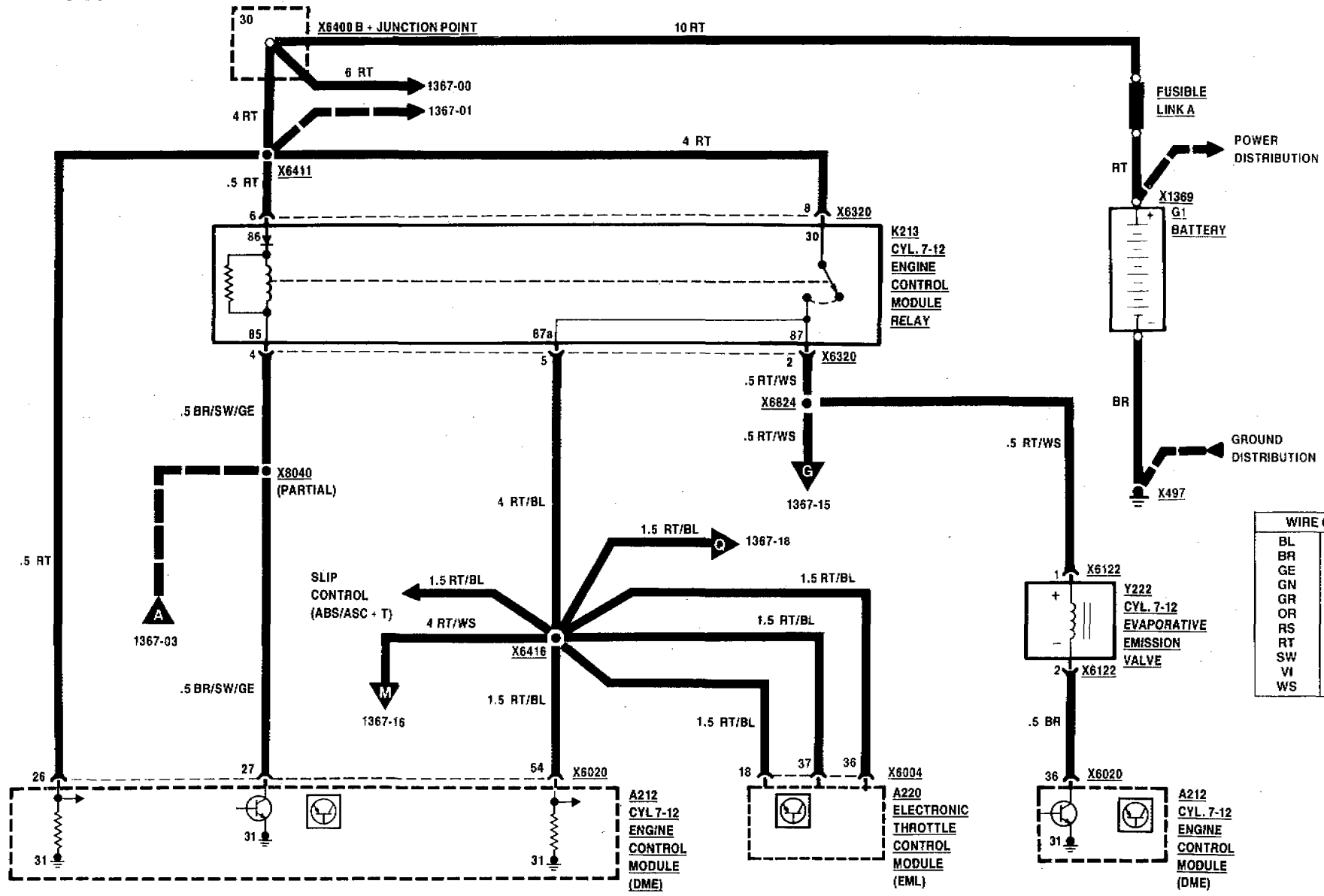
12/93  
1367-13  
93/94



# ENGINE CONTROL SYSTEM (DME/EML 1.7)

750iL

## CONTROL MODULE II



12/93

1367-14

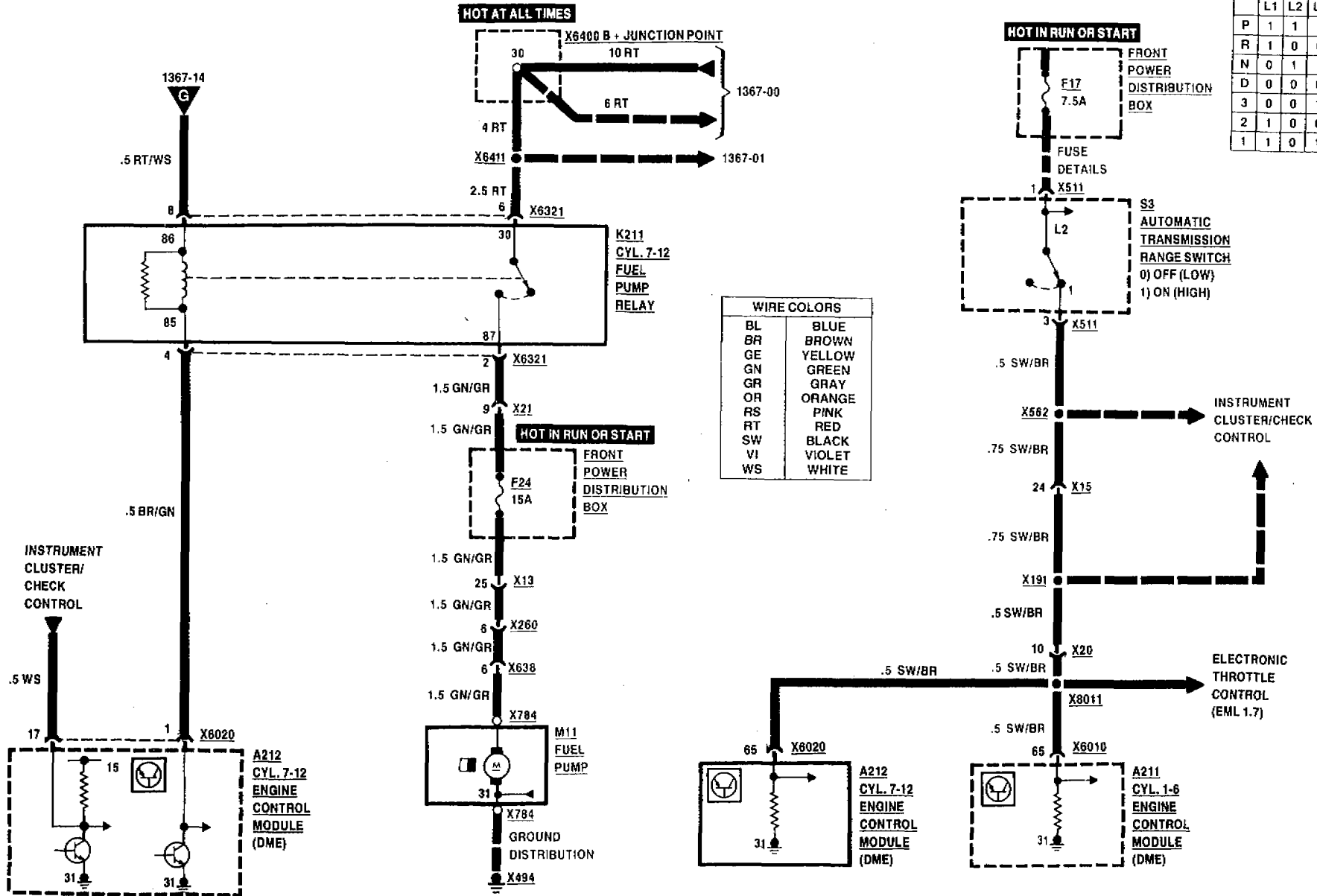
93/94



# ENGINE CONTROL SYSTEM (DME/EML 1.7)

## 750iL

### CONTROL MODULE II



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

	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/EML 1.7)

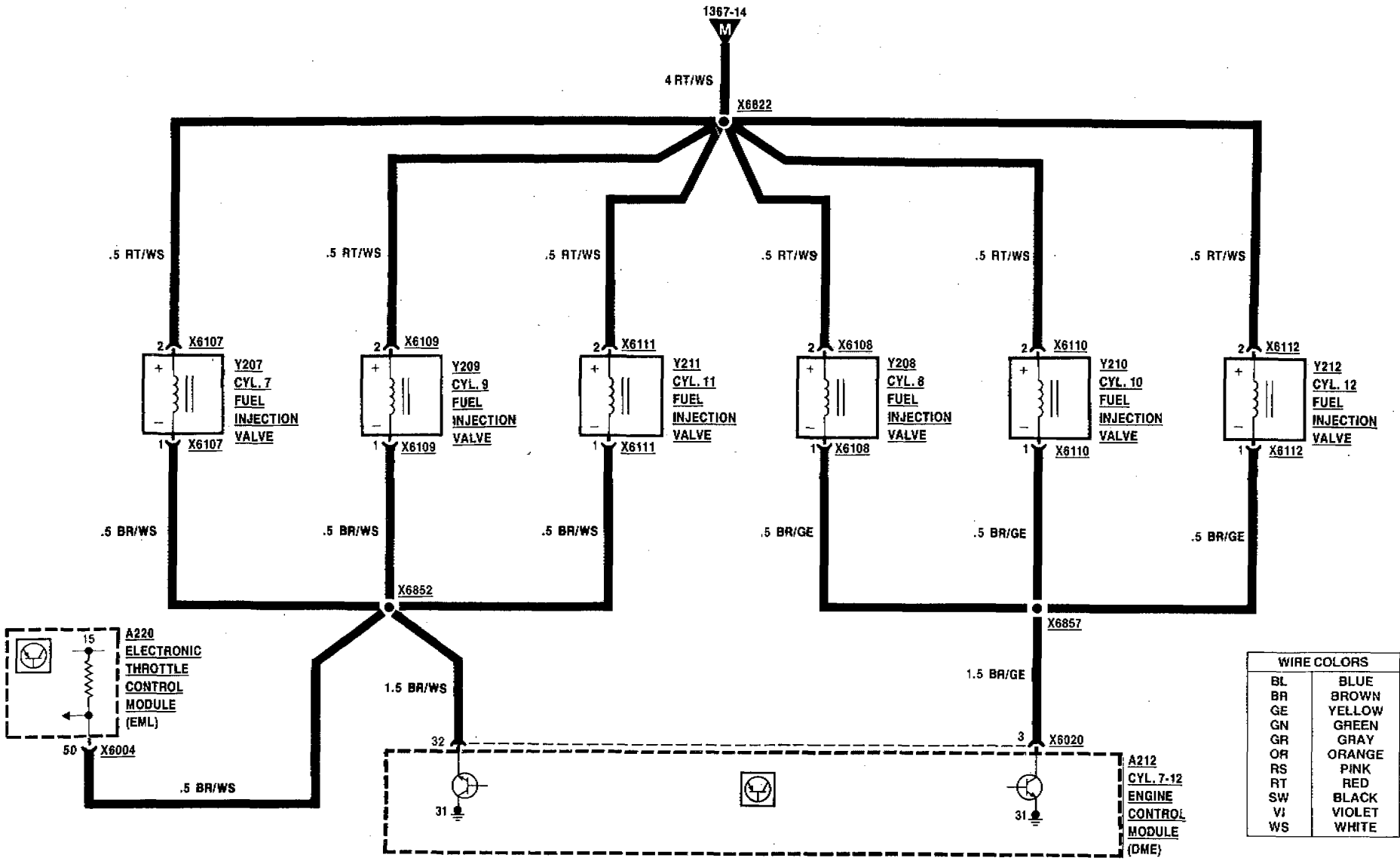
## CONTROL MODULE

740i/L

12/93

1367-16

93/94



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

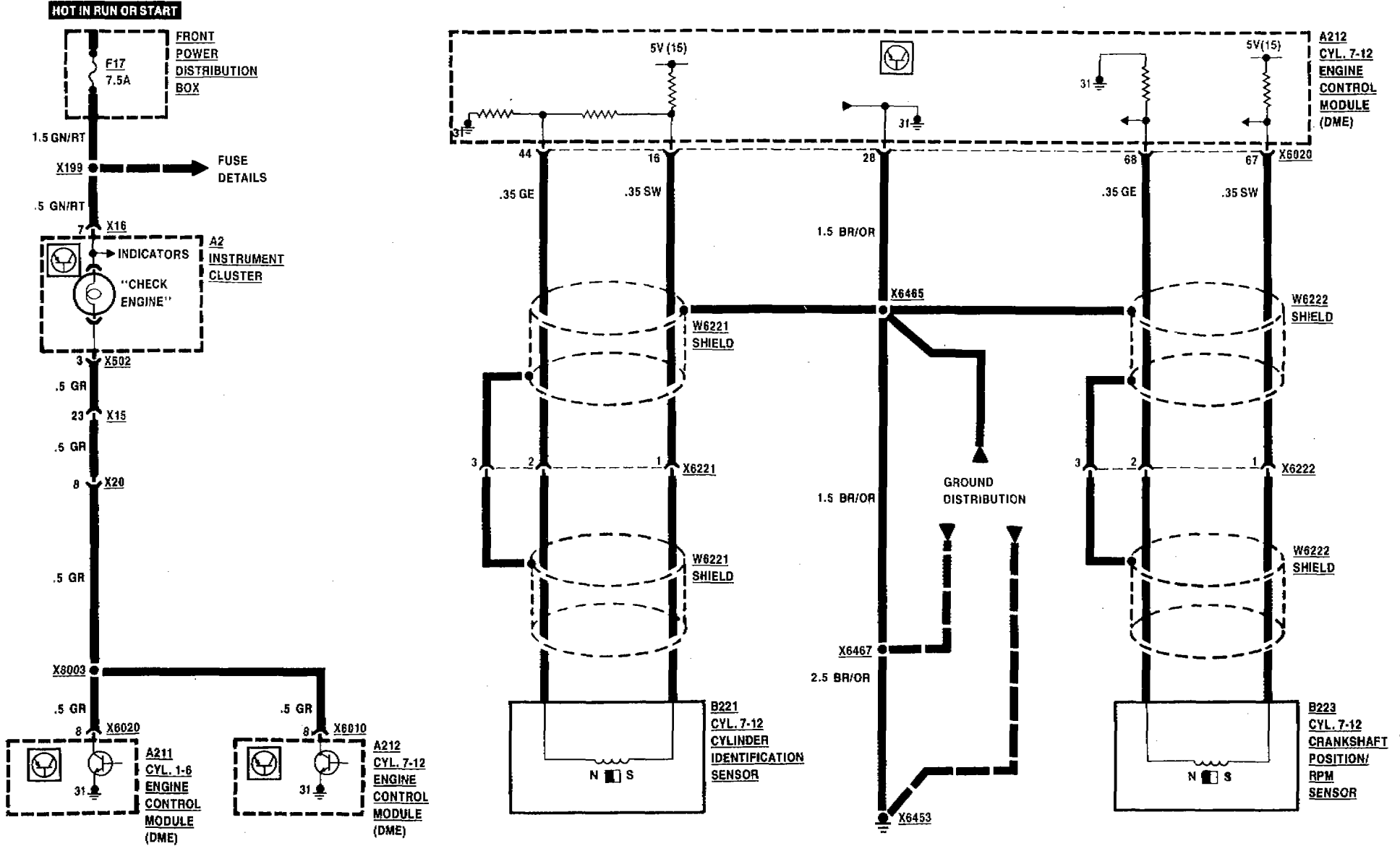


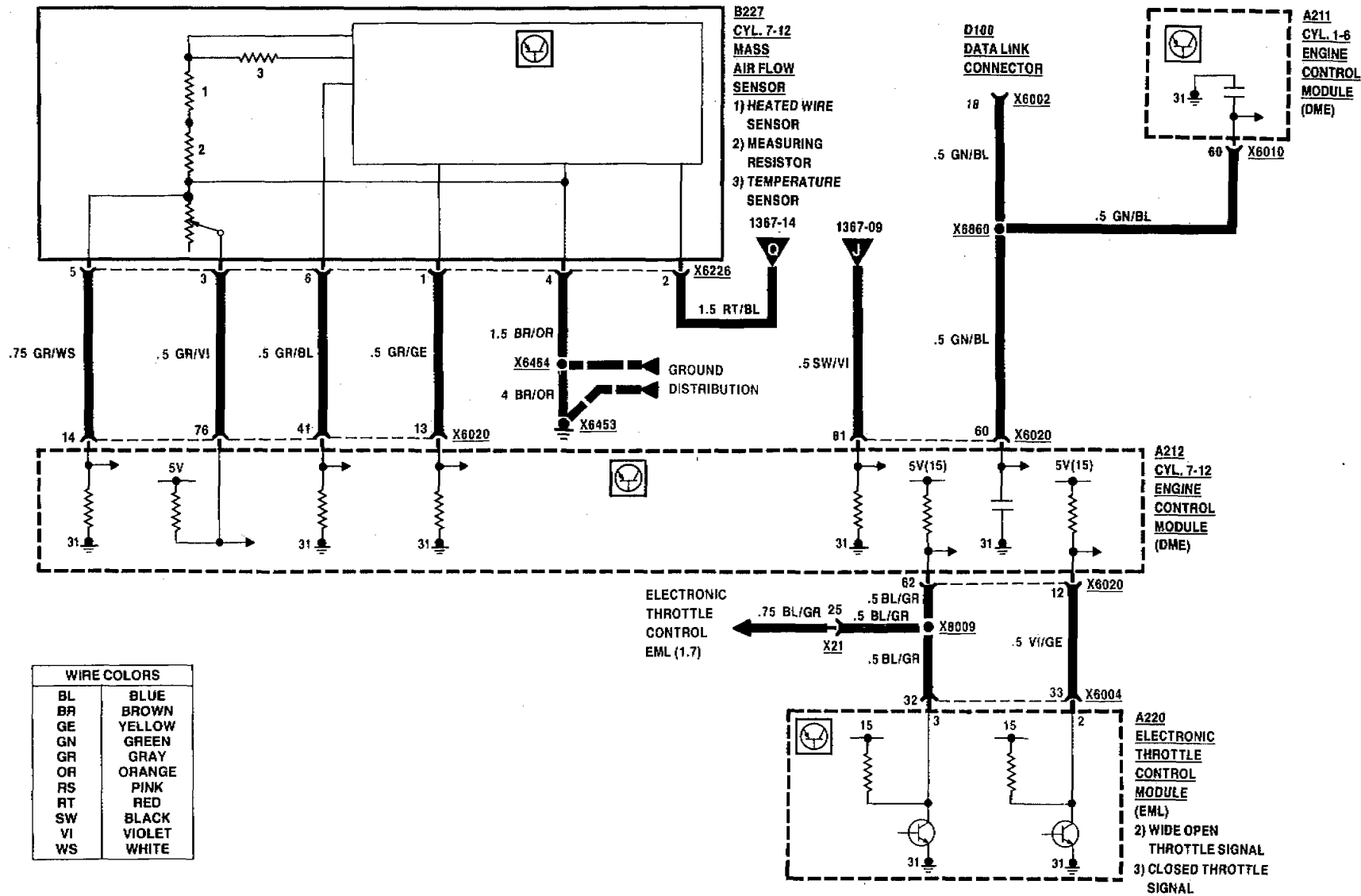


# ENGINE CONTROL SYSTEM (DME/EML 1.7)

750iL

## CONTROL MODULE





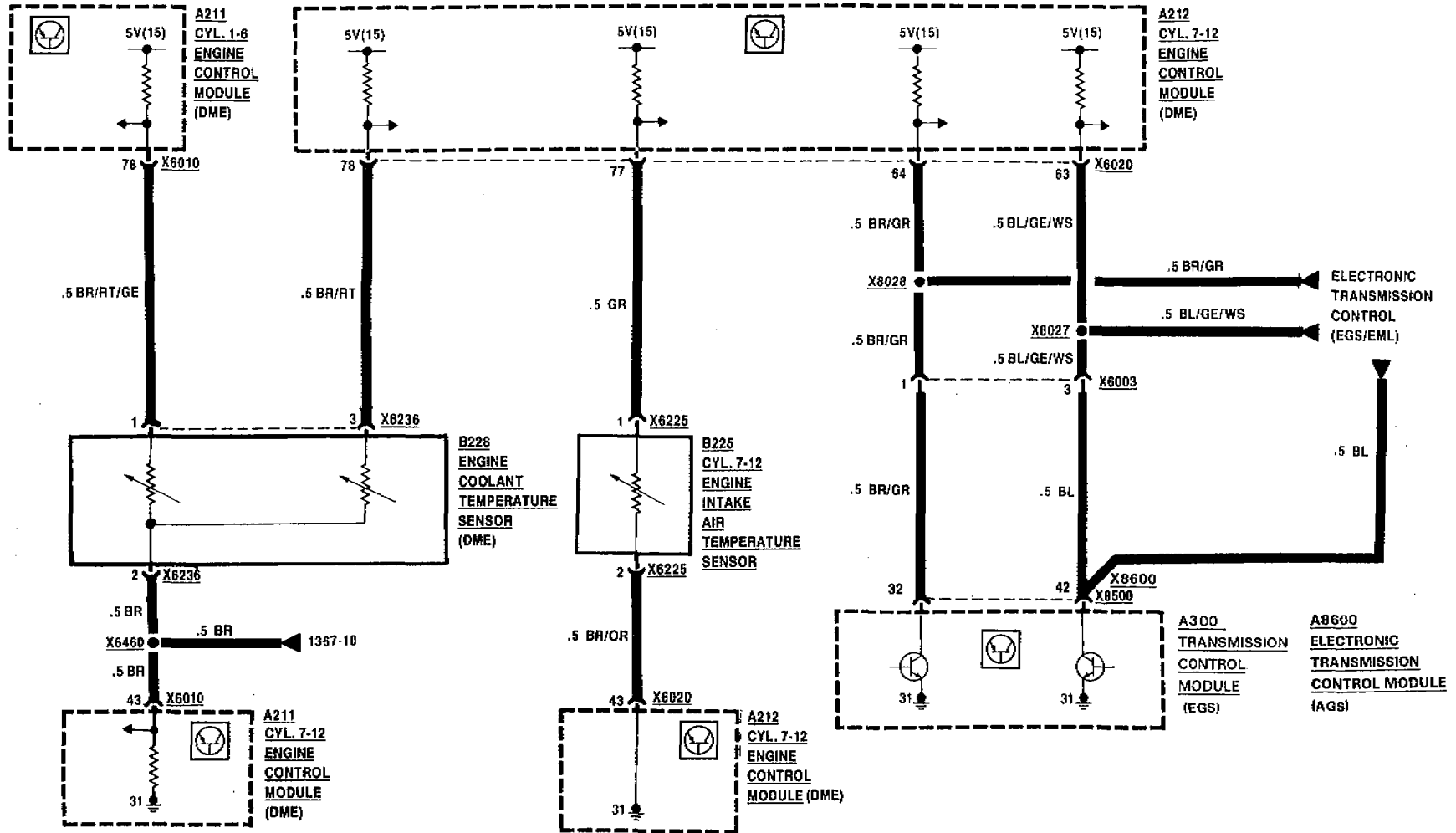


# ENGINE CONTROL SYSTEM (DME/EML 1.7)

## CONTROL MODULE

750iL

12/93  
1367-19  
93/94





# ENGINE CONTROL SYSTEM (DME/EML 1.7)

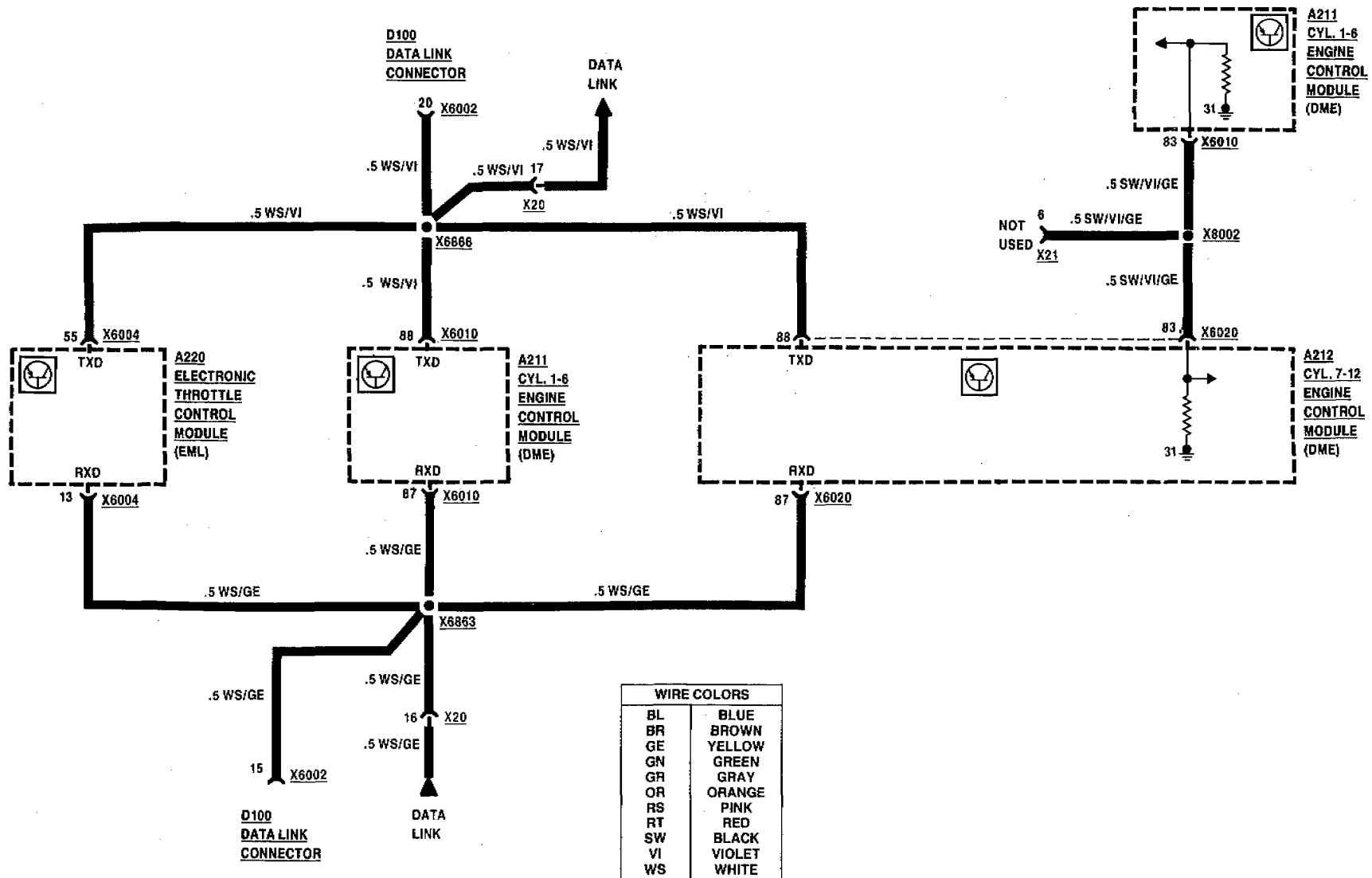
## CONTROL MODULE

750iL

12/93

1367-20

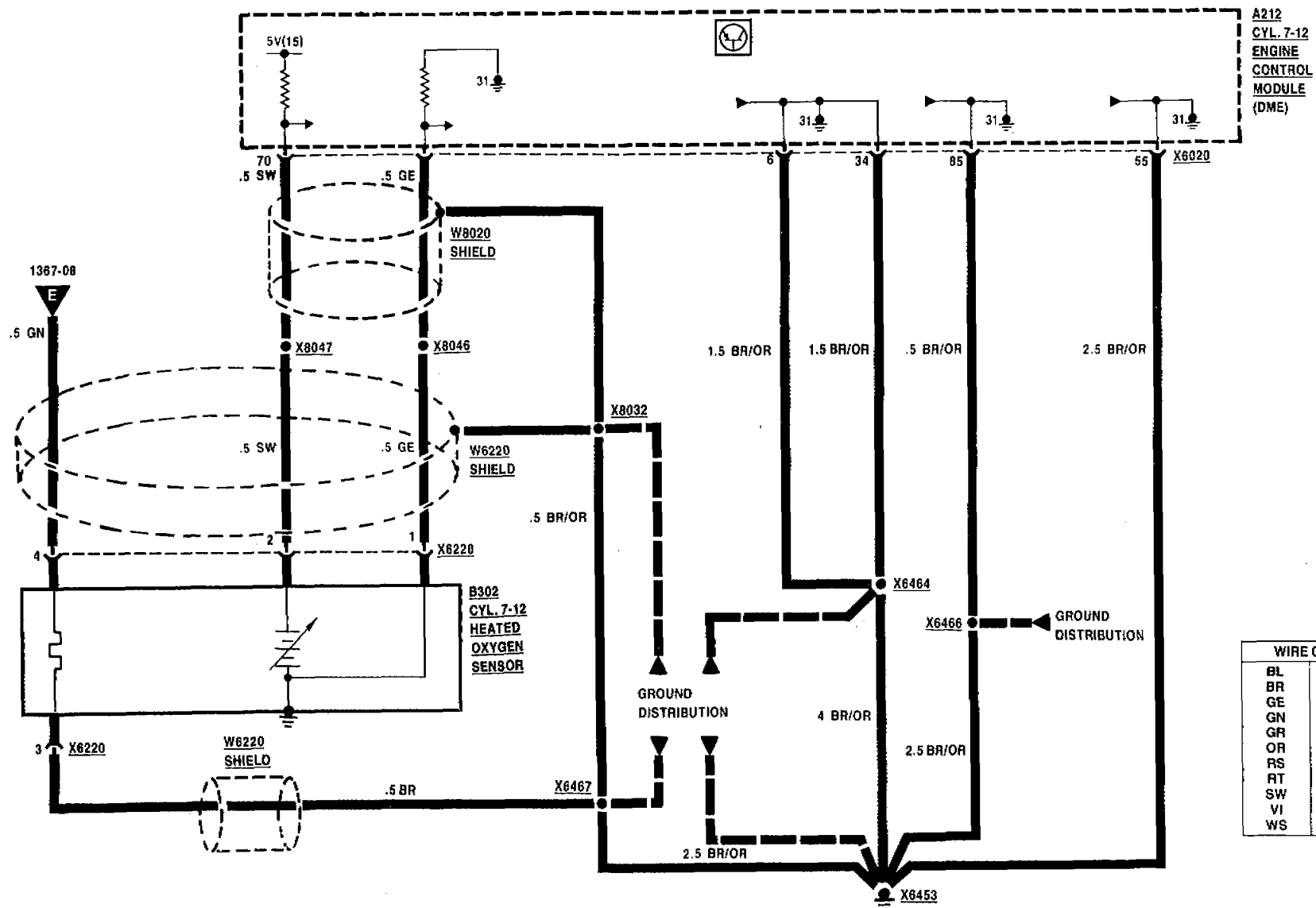
93/94



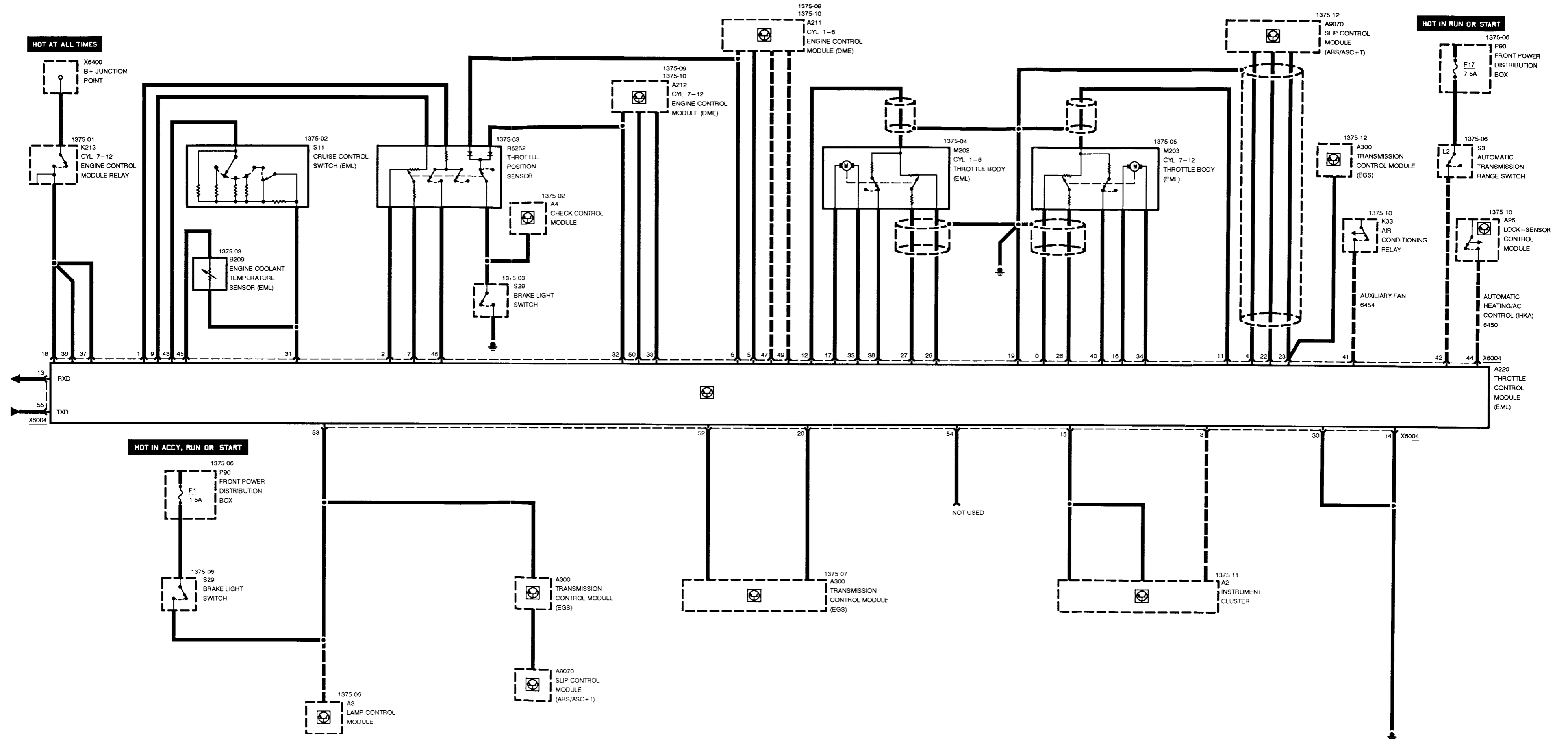


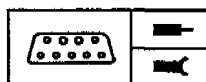
# ENGINE CONTROL SYSTEM (DME/EML 1.7)

## CONTROL MODULE









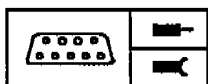
## Pin Assignments

### X6004

Pin	Type	Description/Function	Connection
1	A	5V power supply	Throttle position sensor, R6252
2	E	Ground (electronic ground)	Throttle position sensor, R6252
3		Not used	
4	E	DK angle reduction (DKR)	Slip control module (ABS/ASC+T), A9070
5	A	Full load signal	Cyl. 1-6 engine control module, A211
6	A	Idle signal	Cyl. 1-6 engine control module, A211
7	E	PWG setting	Throttle position sensor, R6252
8	E	Road speed A-signal	Instrument cluster, A2
9	A	5V power supply	Throttle position sensor, R6252
10	E	Ground (electronic ground)	Cyl. 7-12 throttle body, M203
11	A	5V Power supply	Cyl. 7-12 throttle body, M203
12	A	5V Power supply	Cyl. 1-6 throttle body, M202
13	A	Diagnosis	Data link connector, RXD
14	M	Ground	Ground point
15	A *E	EML warning lamp Voltage supply for detect code memory	Instrument cluster, A2 *with ignition off
16	A	Drive throttle (DK) actuator	Cyl. 7-12 throttle body, M203
17	A	Drive throttle (DK) actuator	Cyl. 1-6 throttle body, M202
18	E	Plus supply (terminal 15)	Cyl. 7-12 engine control module relay, K213
19	M	Ground	Ground point
20	E	Kick down signal	Transmission control module, A300
21		Not used	
22	E	DK angle increase (DKE)	Slip control module (ABS/ASC+T), A9070
23	A	Throttle position signal (DKV)	ASC EGS
24		Not used	
25		Not used	
26	E	Ground (electronic ground)	Cyl. 1-6 throttle body, M202
27	E	Throttle position	Cyl. 1-6 throttle body, M202
28	E	Throttle position	Cyl. 7-12 throttle body, M203
29		Not used	

E = Input, A = Output, M = Ground



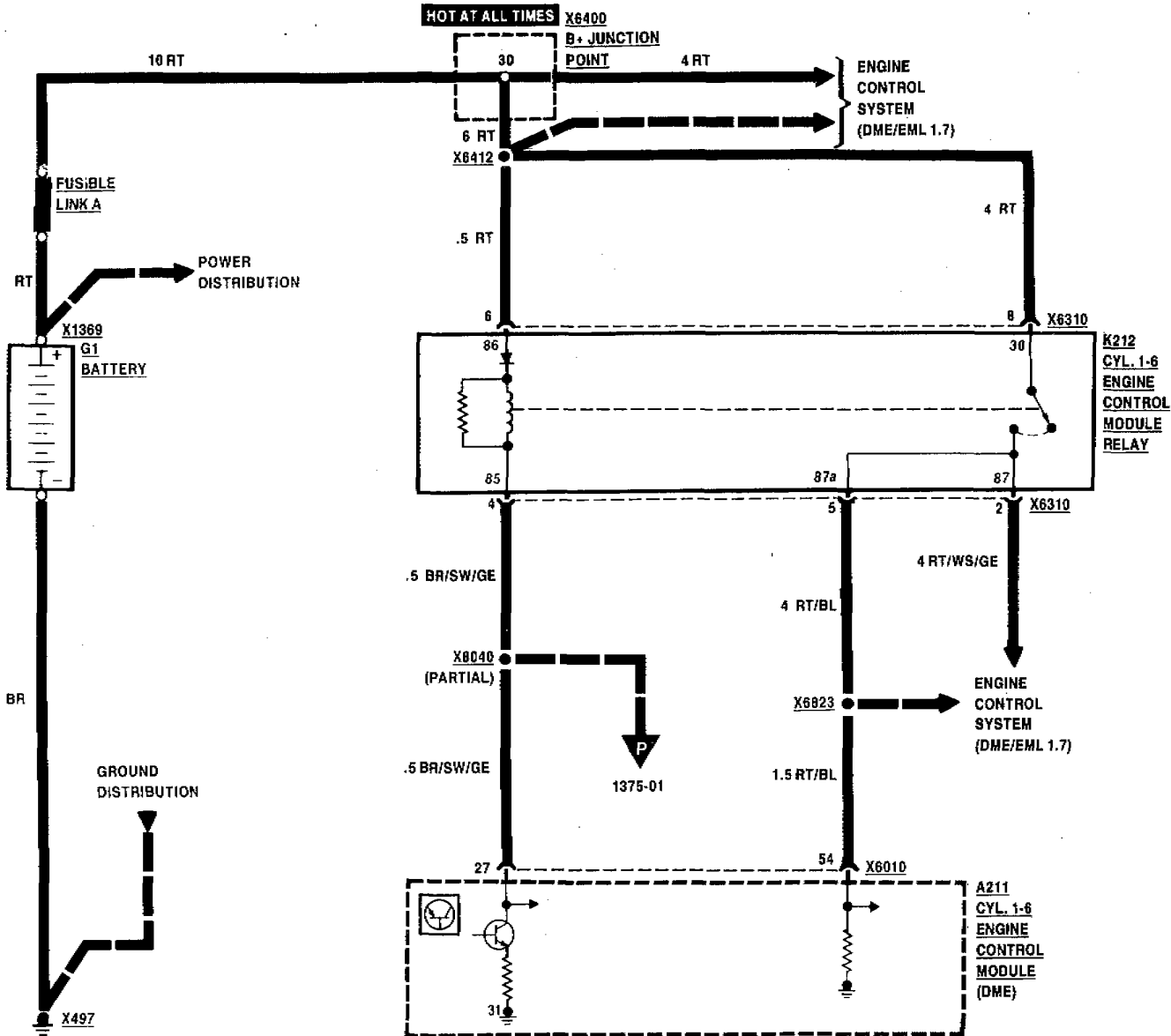


## Pin Assignments

Pin	Type	Description/Function	Connection
30	M	Ground	Ground point
31	E	Ground (electronic ground)	Cruise control switch, S11
32	A	Idle signal	Cyl. 7–12 engine control module, A212
33	A	Full load signal	Cyl. 7–12 engine control module, A212
34	A	Drive throttle (DK) actuator	Cyl. 7–12 throttle body, M203
35	A	Drive throttle (DK) actuator	Cyl. 1–6 throttle body, M202
36	E	Plus supply (terminal 15)	Cyl. 7–12 engine control module relay, K213
37	E	Plus supply (terminal 15)	Cyl. 7–12 engine control module relay, K213
38	E	Throttle 17° switch	Cyl. 1–6 throttle body, M202
39		Not used	
40	E	Throttle 17° switch	Cyl. 7–12 throttle body, M203
41	E	A/C switch	A/C relay for engine control module, K33
42	E	P/N identifier	Automatic transmission range switch, S3
43	E/A	FGR identifier	Cruise control switch, S11
44	E	A/C compressor on	Lock sensor control module, A26
45	E	Engine coolant temperature	Engine coolant temperature sensor, B209
46	E	PWG 90° switch	Cruise control switch, S11
47	E	Engine speed (TD) signal	Cyl. 1–6 engine control module, A211
48		Not used	
49	E	Injection signal	Cyl. 1–6 engine control module, A211
50	E	Injection signal	Cyl. 7–12 engine control module, A212
51		Not used	
52	E	S-program identifier (EGS)	Transmission control module, A300
53	E	Brake light switch	Brake light switch, S29
54		Not used	
55	E/A	Diagnosis	Data link connector, TxD

E = Input, A = Output, M = Ground



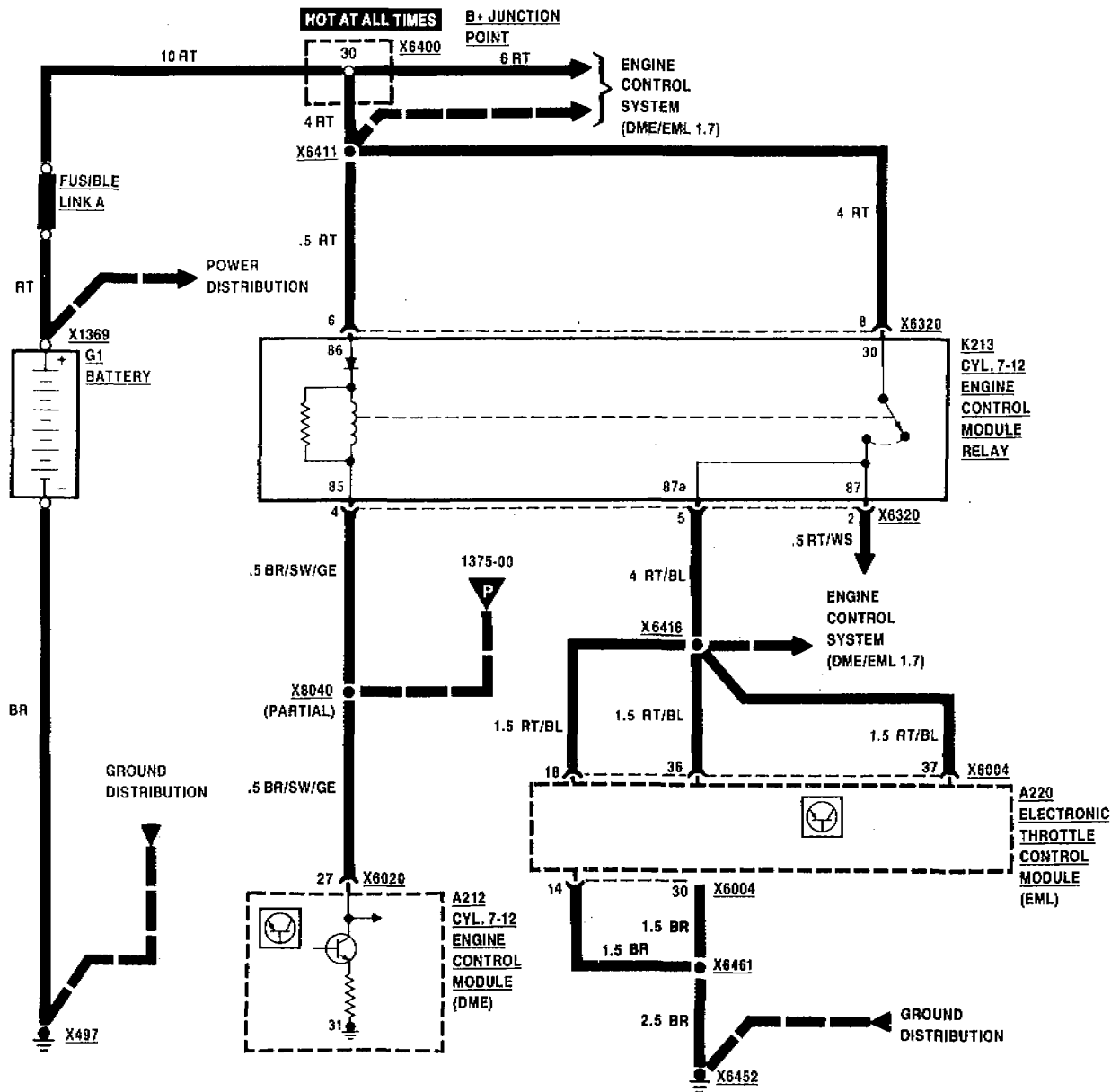


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

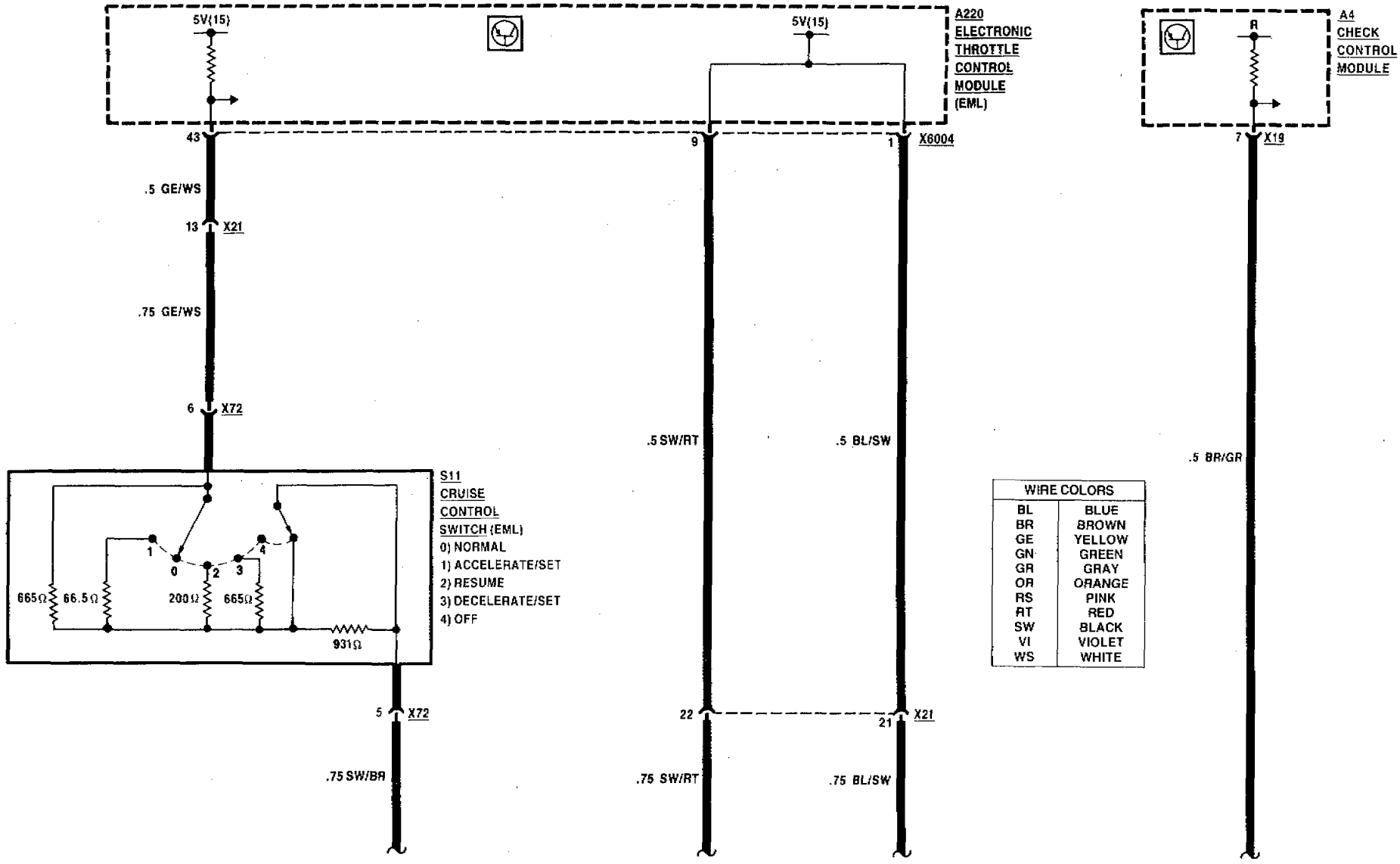


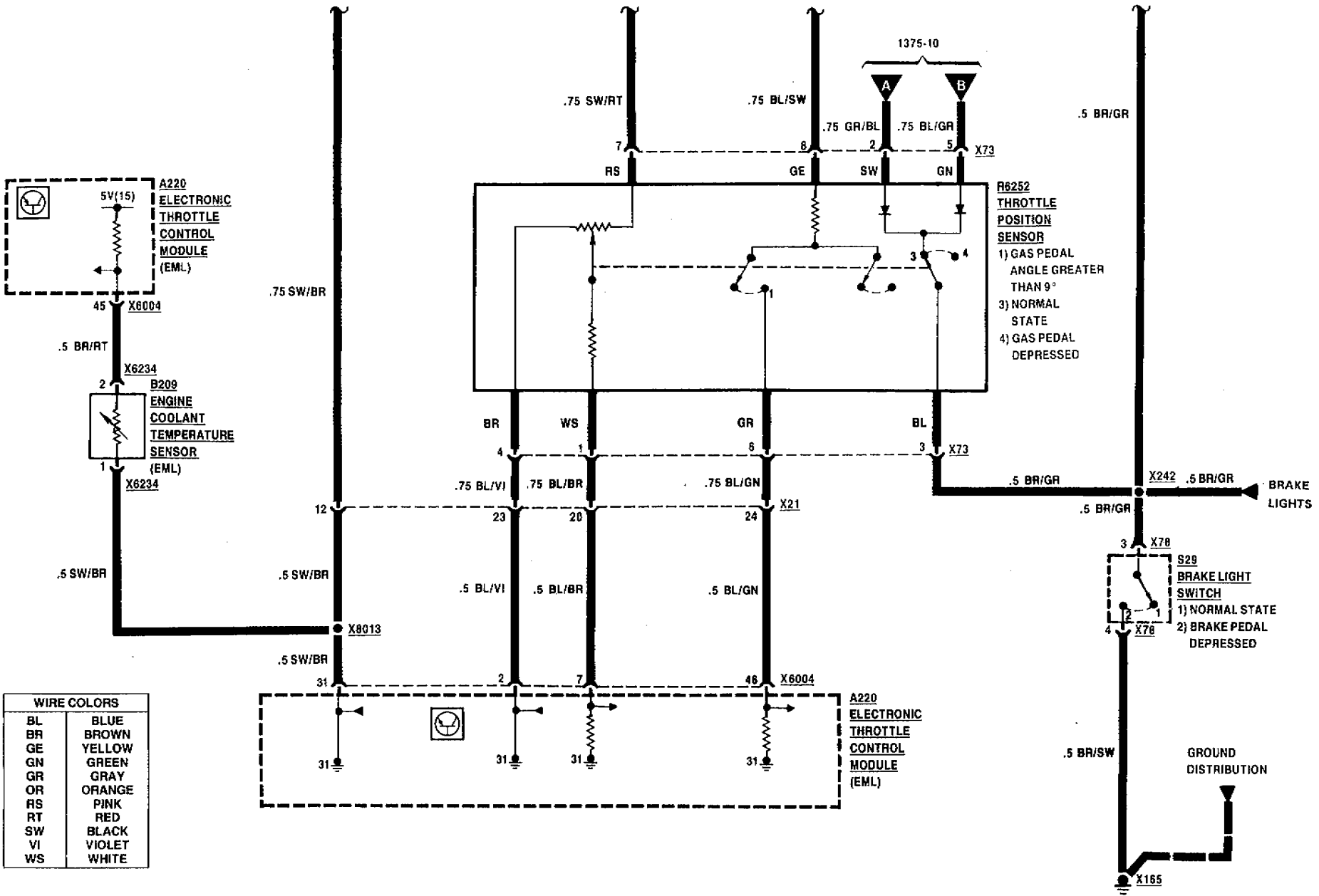
# ELECTRONIC THROTTLE CONTROL (EML 1.7)

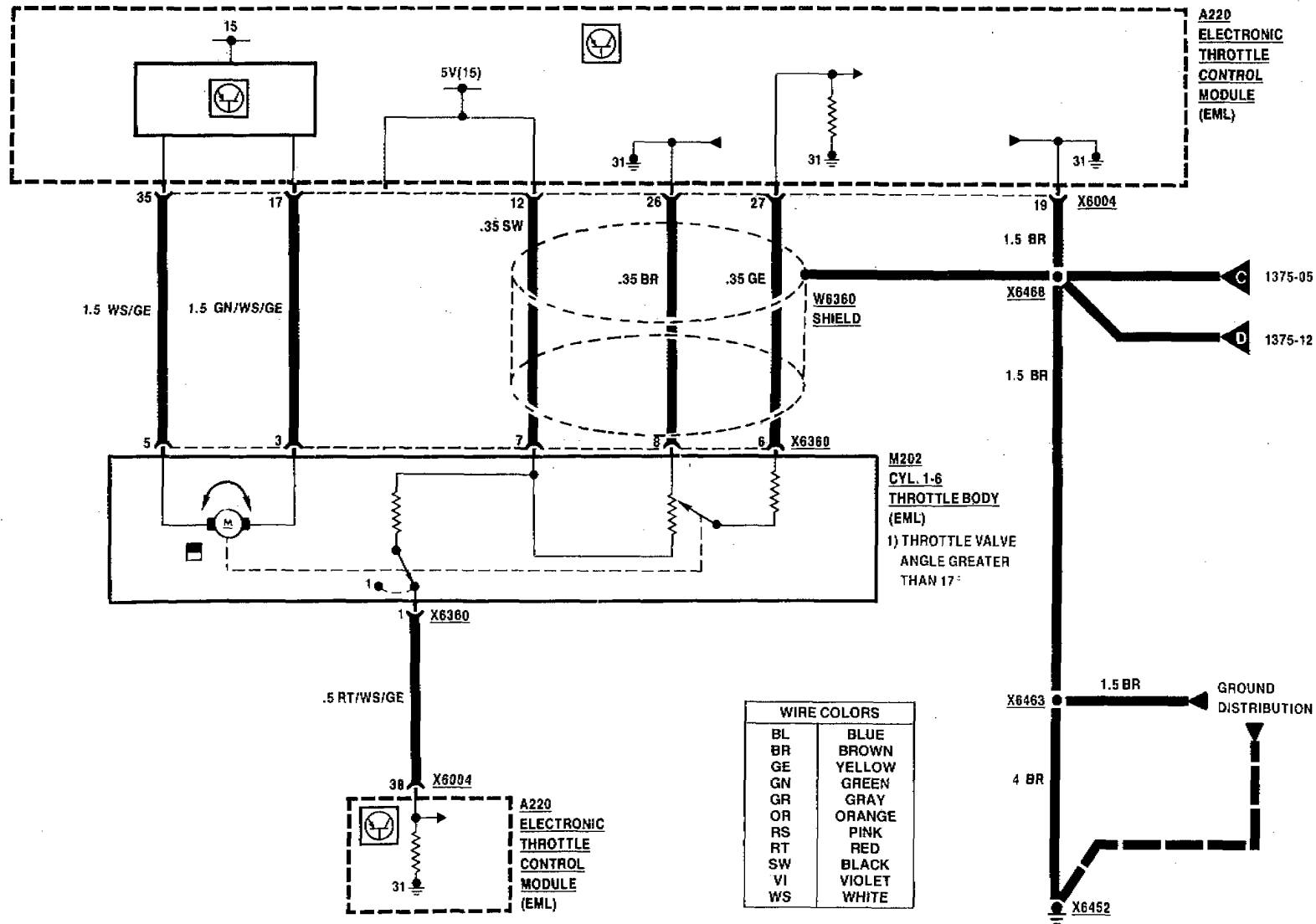
750iL



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



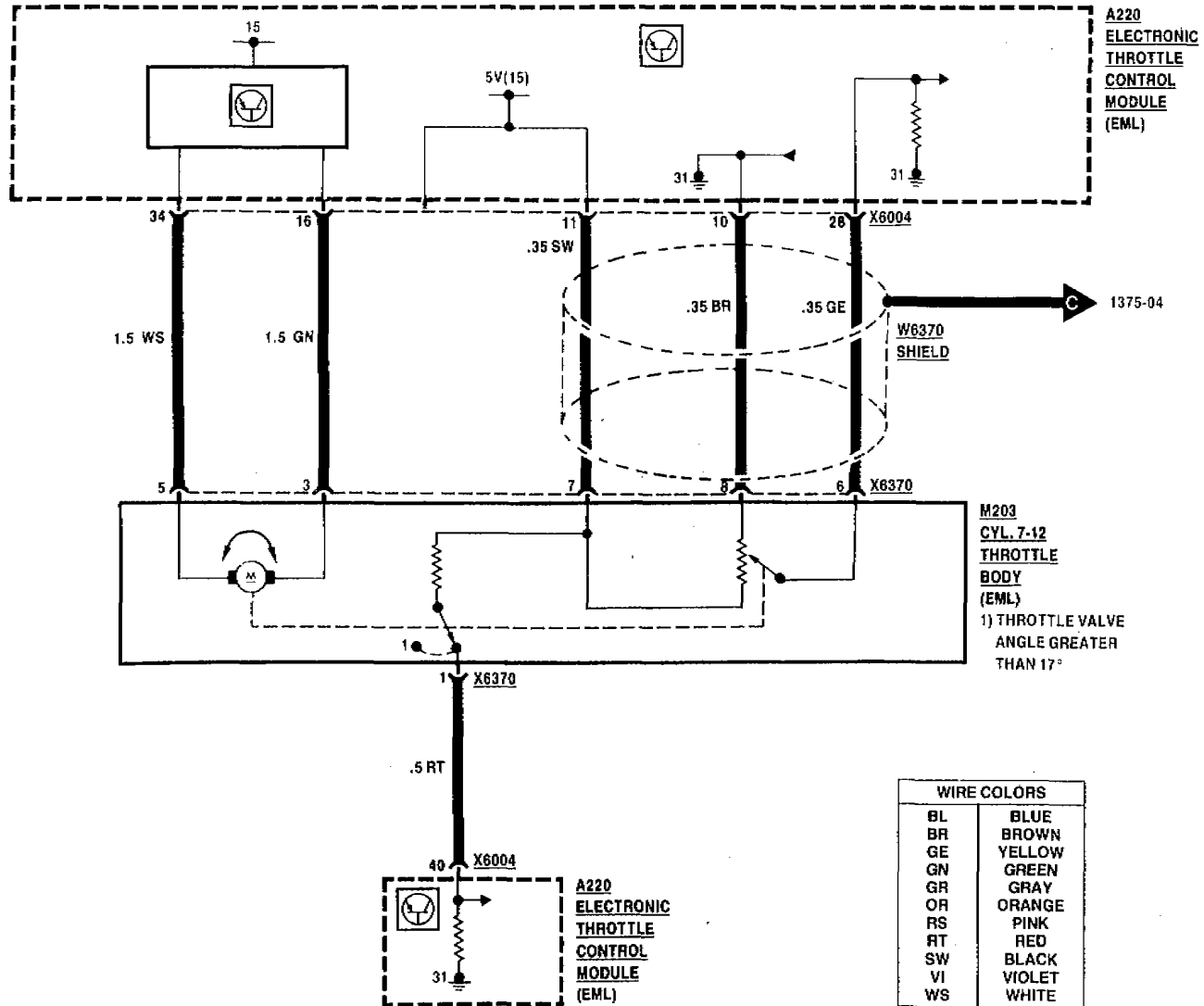






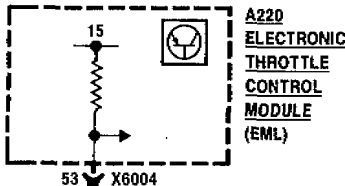
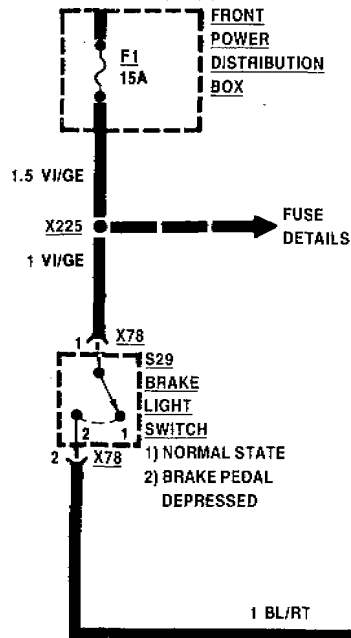
# ELECTRONIC THROTTLE CONTROL (EML 1.7)

750iL

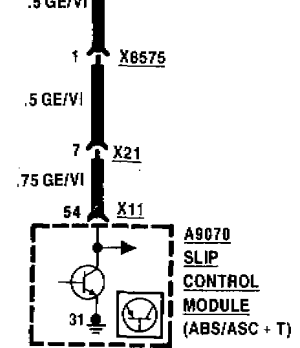
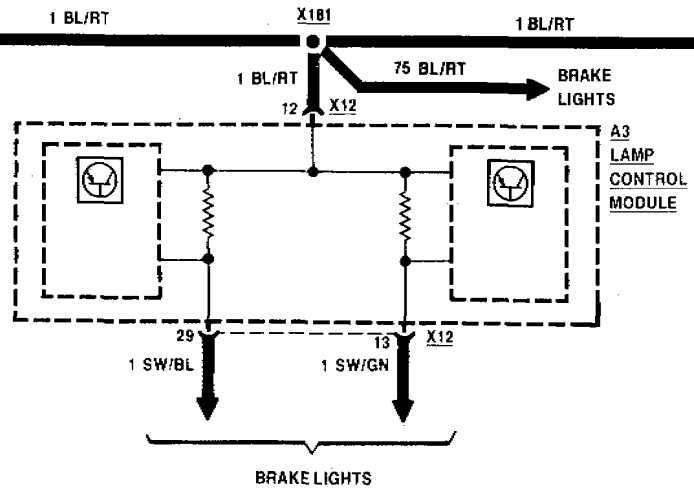
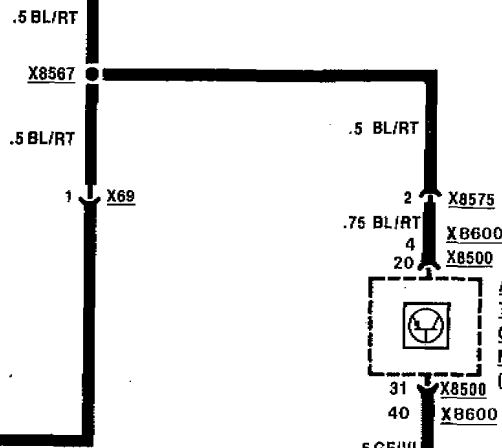




HOT IN ACC, RUN OR START



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





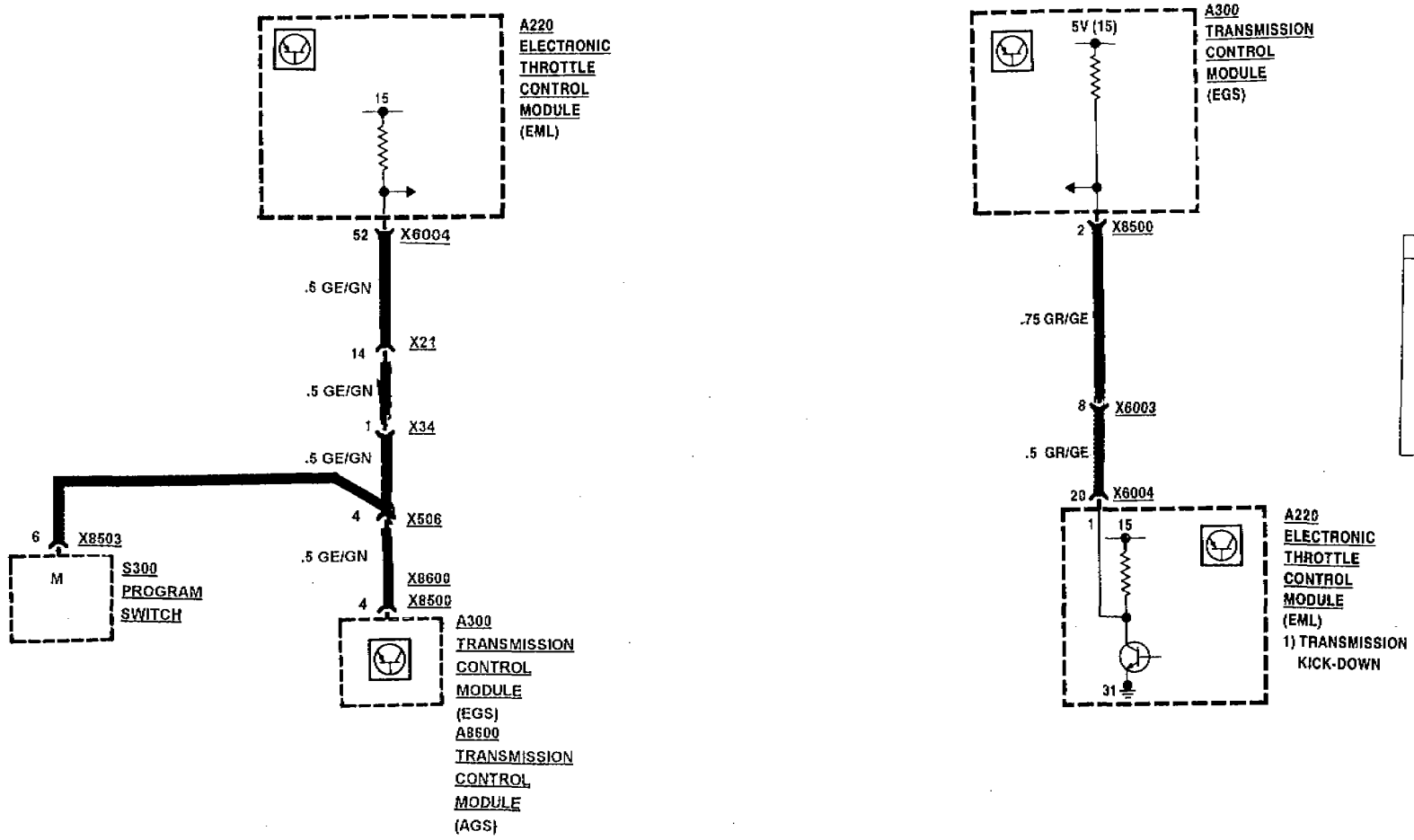
# ELECTRONIC THROTTLE CONTROL (EML 1.7)

750iL

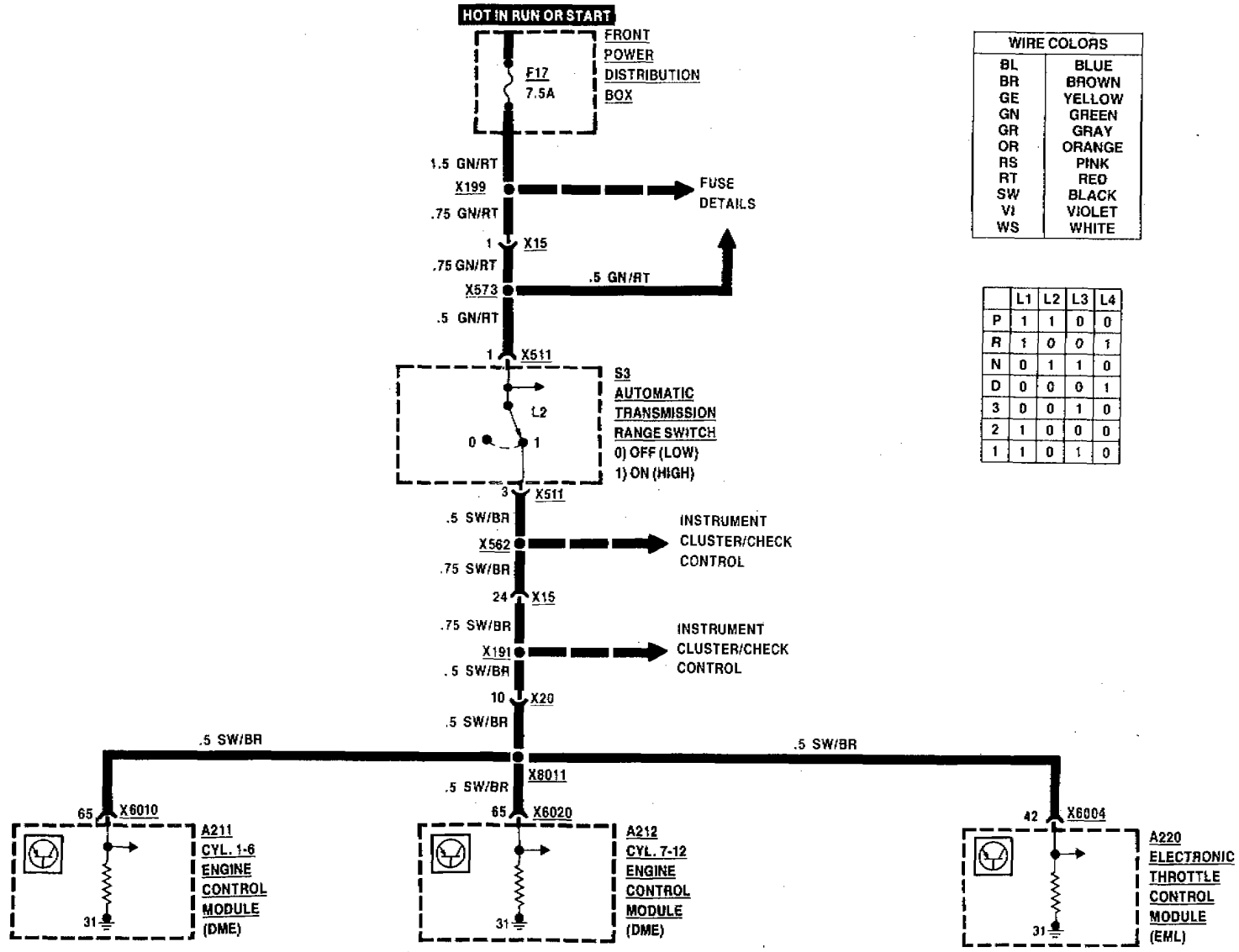
12/93

1375-07

93/94



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



**WIRE COLORS**

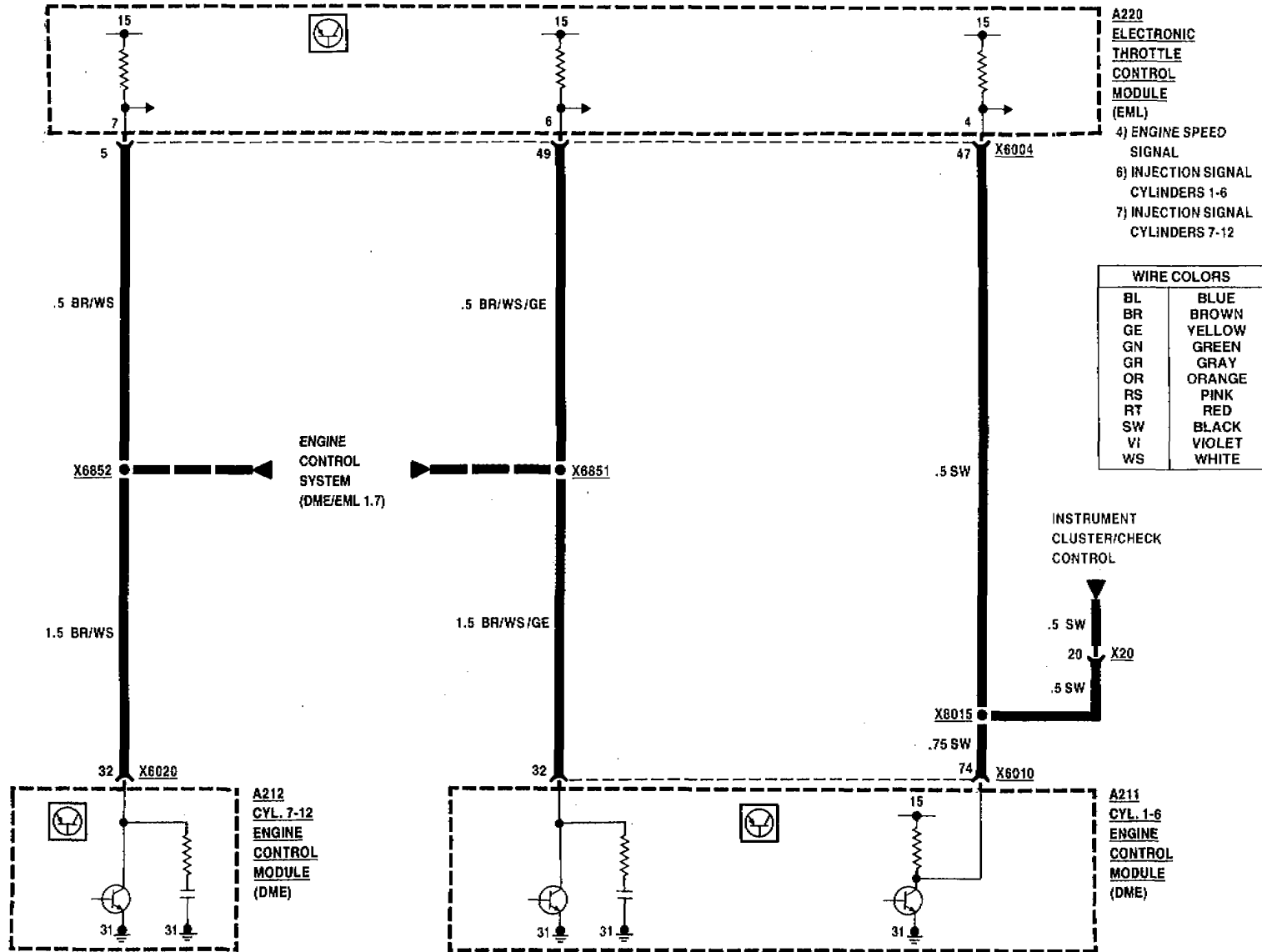
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

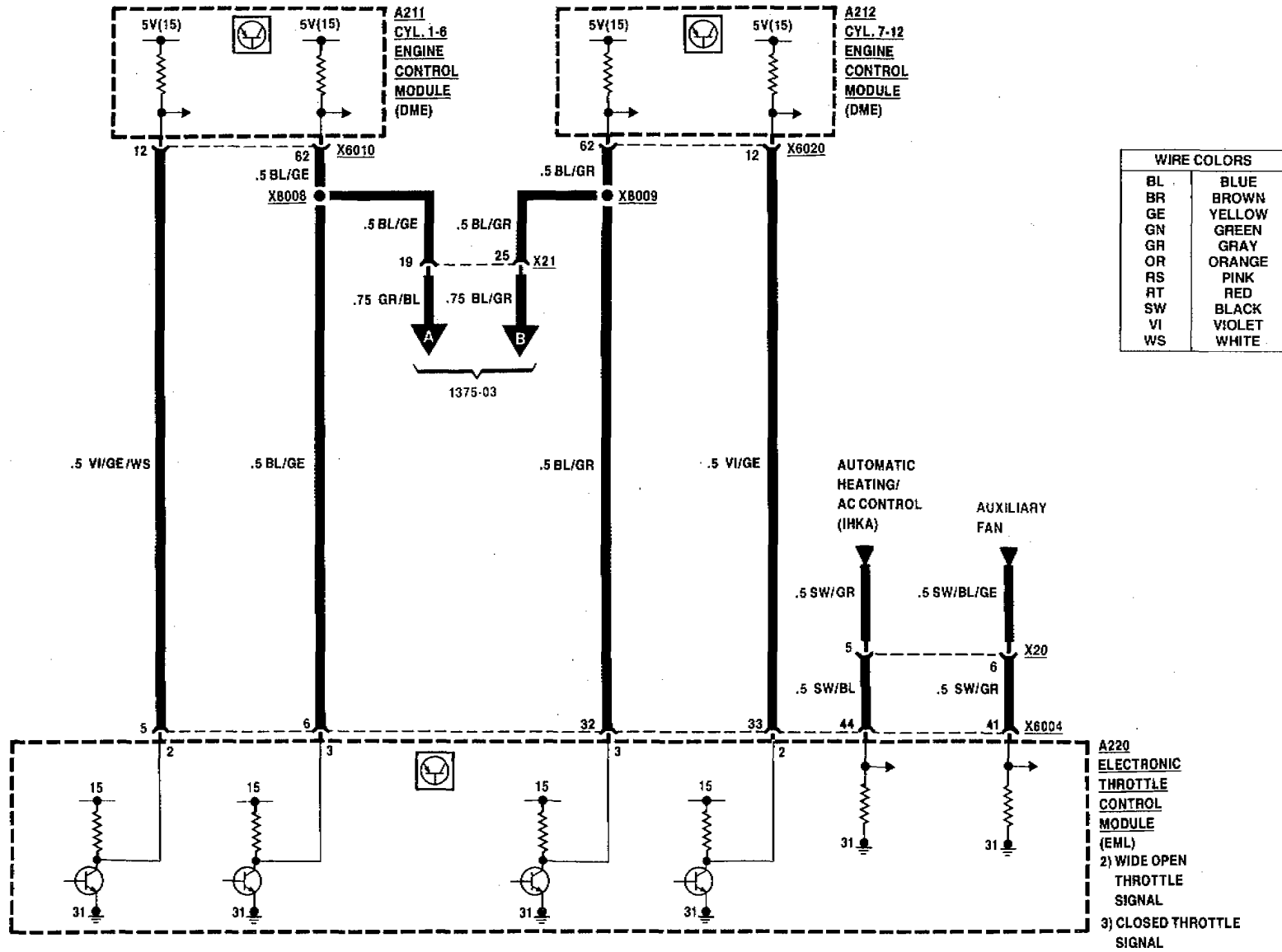
	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

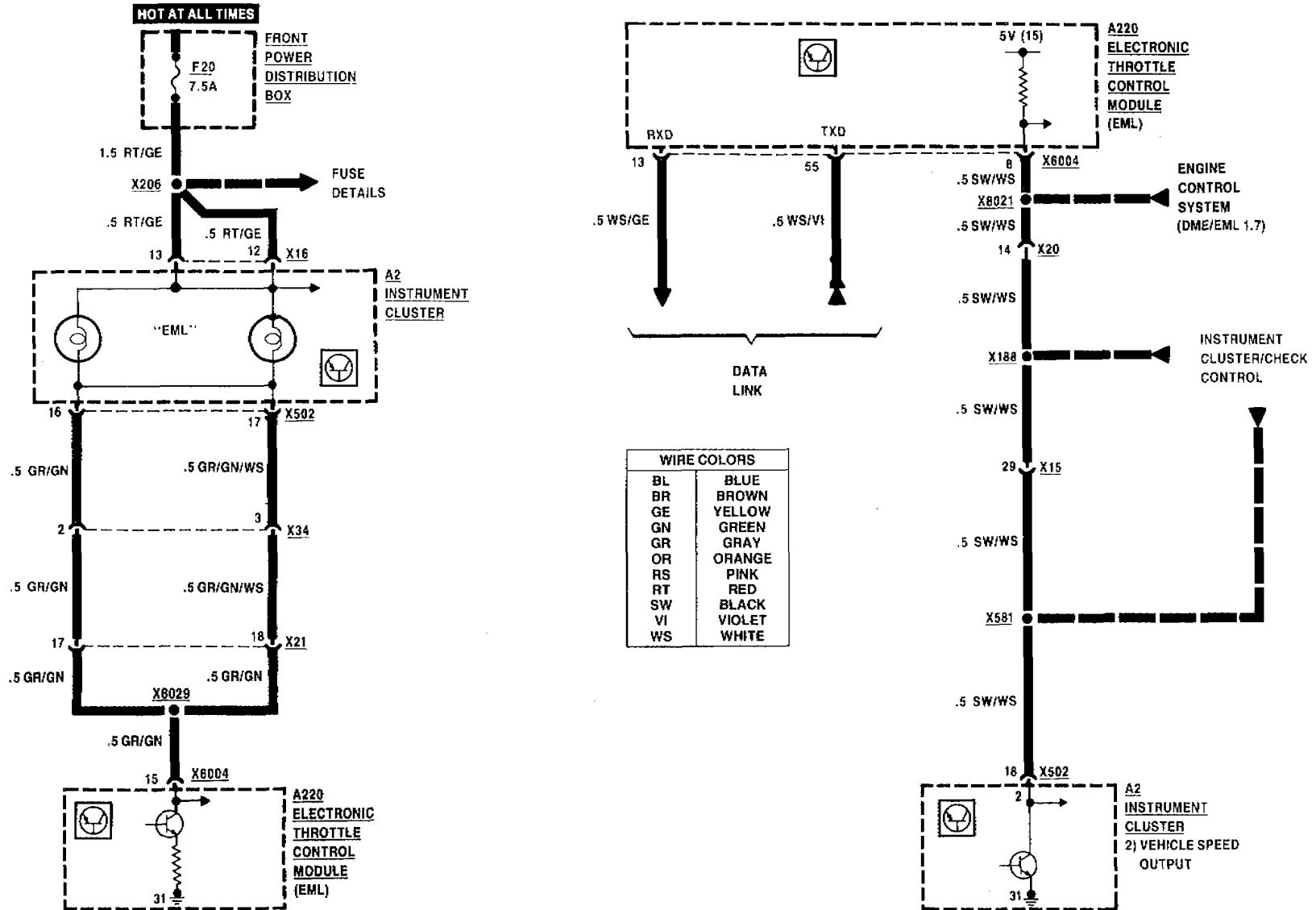


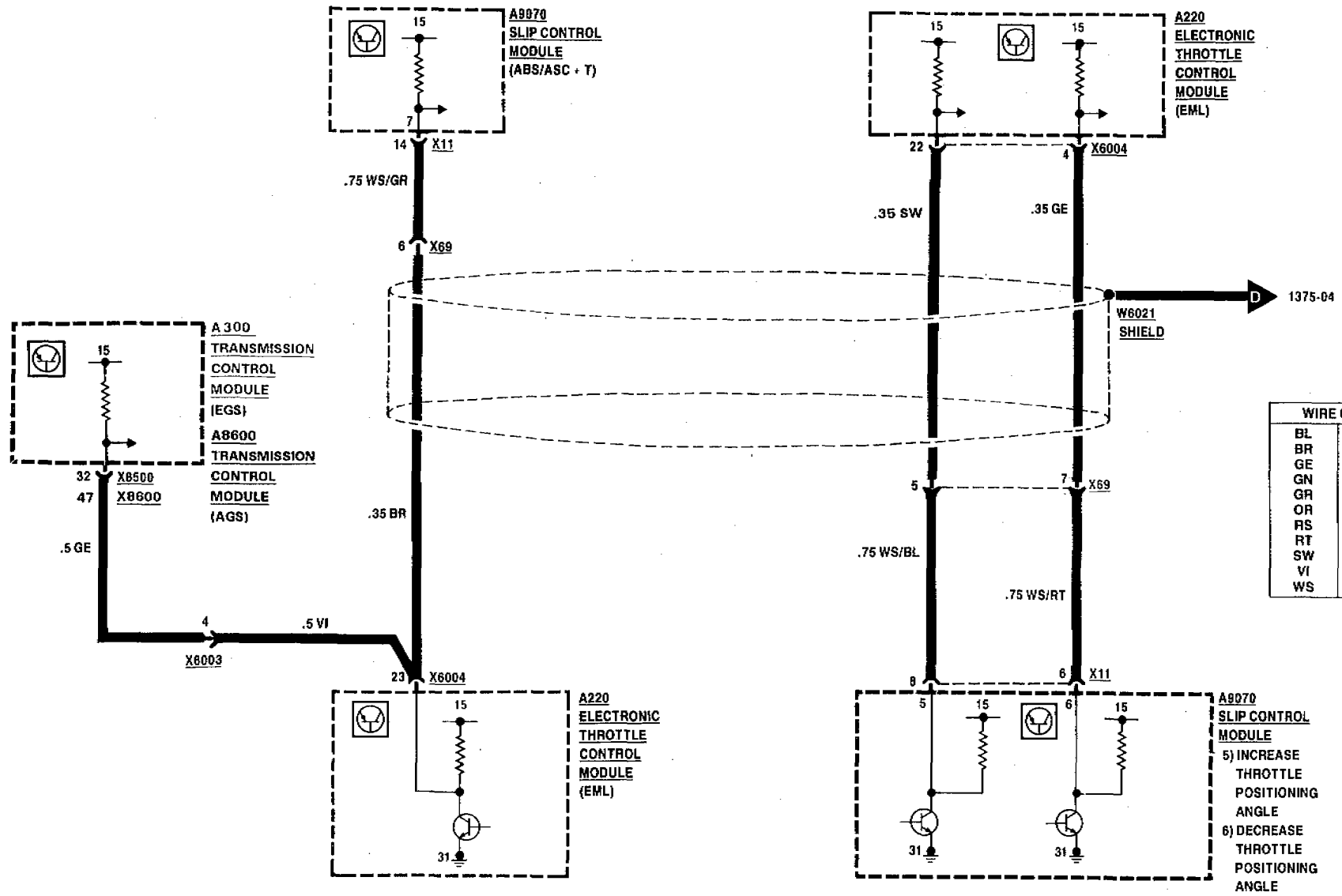
# ELECTRONIC THROTTLE CONTROL (EML 1.7)

750iL



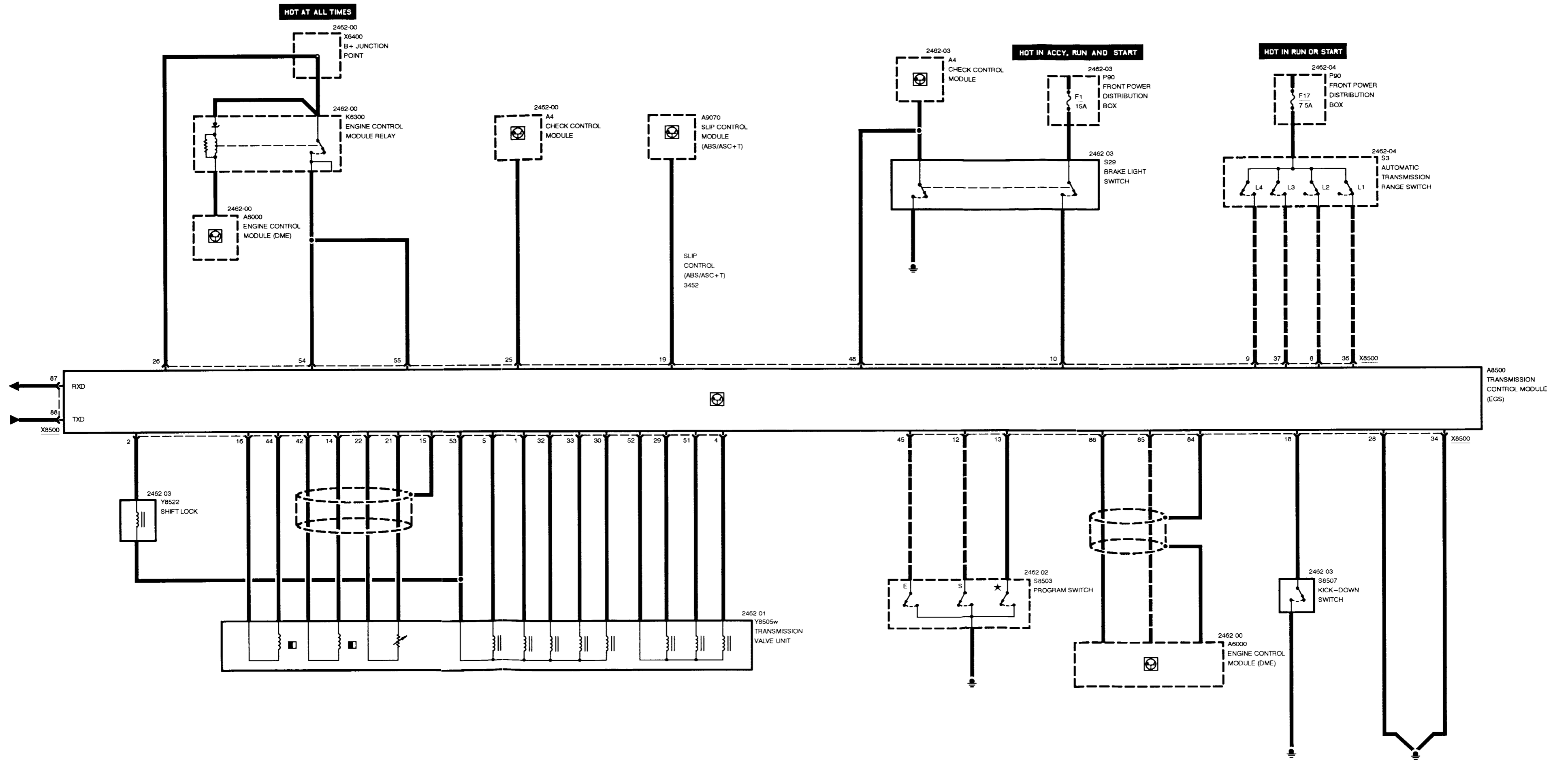




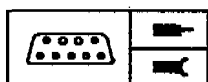


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

- 5) INCREASE THROTTLE POSITIONING ANGLE
- 6) DECREASE THROTTLE POSITIONING ANGLE





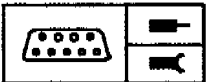


## Pin Assignments

### X8500

Pin	Type	Description/Function	Connection
1	A	Pressure regulator 2	Transmission gear shift unit, Y8505w
2	A	Shift lock solenoid	Shift lock solenoid, Y8522
3		Not used	
4	A	Pressure regulator 4	Transmission gear shift unit, Y8505w
5	A	Pressure regulator 1	Transmission gear shift unit, Y8505w
6		Not used	
7		Not used	
8	E	Position switch L2	Automatic transmission range switch, S3
9	E	Position switch L4	Automatic transmission range switch, S3
10	E	Brake light	Brake light switch, S29
11		Not used	
12	E	Program S	Program switch, S8503
13	E/A	Program M	Program switch, S8503
14	E	Maximum speed sensor n-ab (-)	Transmission gear shift unit, Y8505w
15	A	Shield n-ab	Shield to transmission gear shift unit
16	E	Speed sensor turbine n-T (+)	Transmission gear shift unit, Y8505w
17		Not used	
18	E	Kick down	Kick down switch, S8507
19	E	ASR-Signal	Slip control module (ABS/ASC+T), A9070
20		Not used	
21	A	Ground, oil temperature sensor	Transmission gear shift unit, Y8505w
22	E	Oil temperature gear shift unit	Transmission gear shift unit, Y8505w
23		Not used	
24		Not used	
25	A	Fault display	Check control module, A4
26	E	Plus supply (terminal 30)	B+ junction point, X6400
27		Not used	
28	M	Ground (electronic ground)	Ground point
29	A	Pressure regulator 3	Transmission gear shift unit, Y8505w
30	A	Solenoid valve 1	Transmission gear shift unit, Y8505w

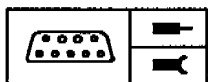
E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
31		Not used	
32	A	Solenoid valve 3	Transmission gear shift unit, Y8505w
33	A	Solenoid valve 2	Transmission gear shift unit, Y8505w
34	M	Ground	Ground point
35		Not used	
36	E	Position switch L1	Transmission range switch, S3
37	E	Position switch L3	Transmission range switch, S3
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42	E	Maximum speed sensor n-ab (+)	Transmission gear shift unit, Y8505w
43		Not used	
44	E	Speed sensor turbine n-T	Transmission gear shift unit, Y8505w
45	E	Program E	Program switch, S8503
46		Not used	
47		Not used	
48	E	Brake test	Brake test switch, S29
49		Not used	
50		Not used	
51	A	Pressure regulator 5	Transmission gear shift unit, Y8505w
52	A	Plus supply DR, MV	Transmission gear shift unit, Y8505w
53	A	Plus supply DR, MV	Transmission gear shift unit, Y8505w
54	E	Plus supply (terminal 15)	Engine control module relay, K6300
55	E	Plus supply (terminal 15)	Engine control module relay, K6300
56		Not used	
57		Not used	
58		Not used	
59		Not used	
60		Not used	
61		Not used	
62		Not used	

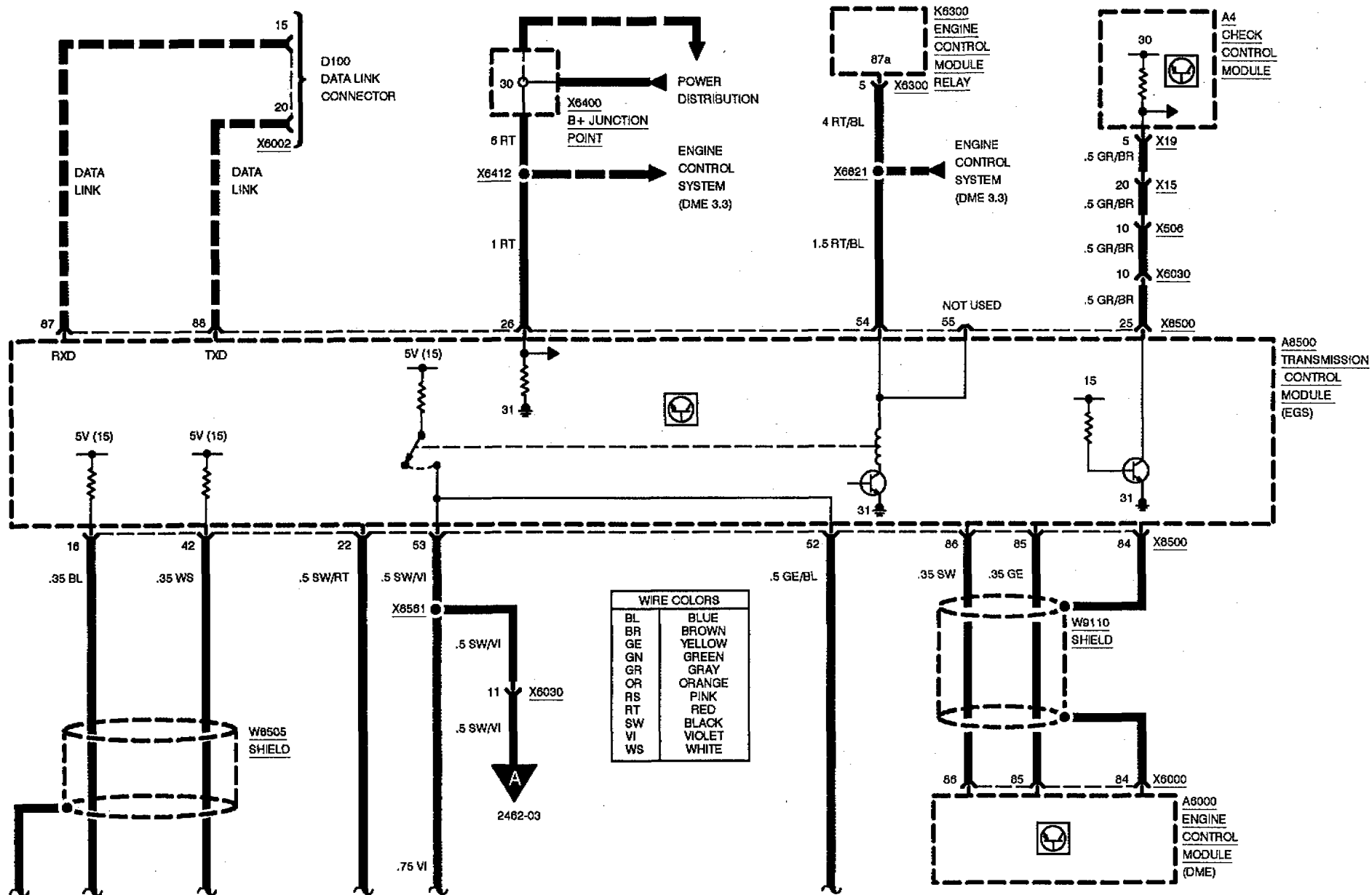
E = Input, A = Output, M = Ground

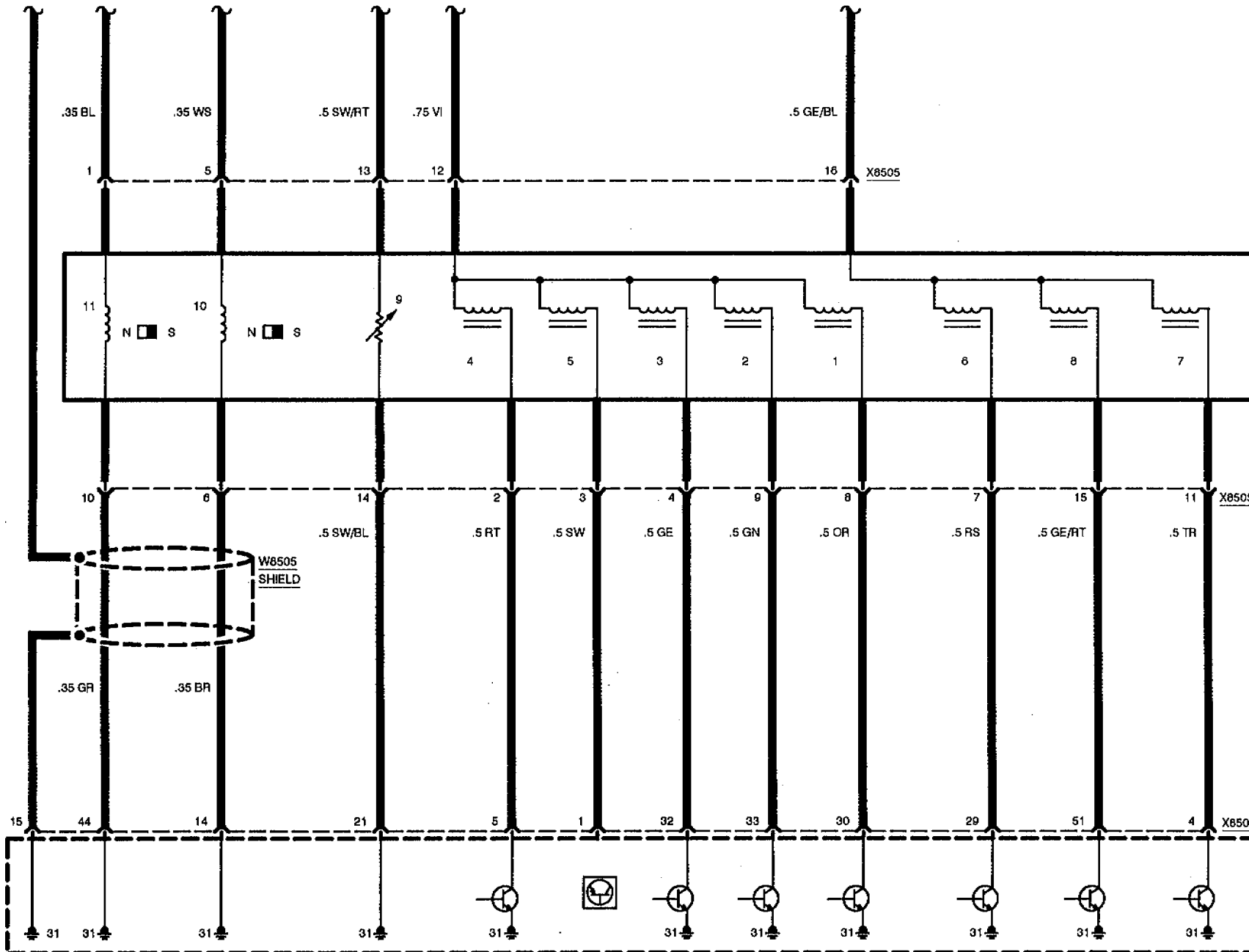


## Pin Assignments

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

E = Input, A = Output, M = Ground





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

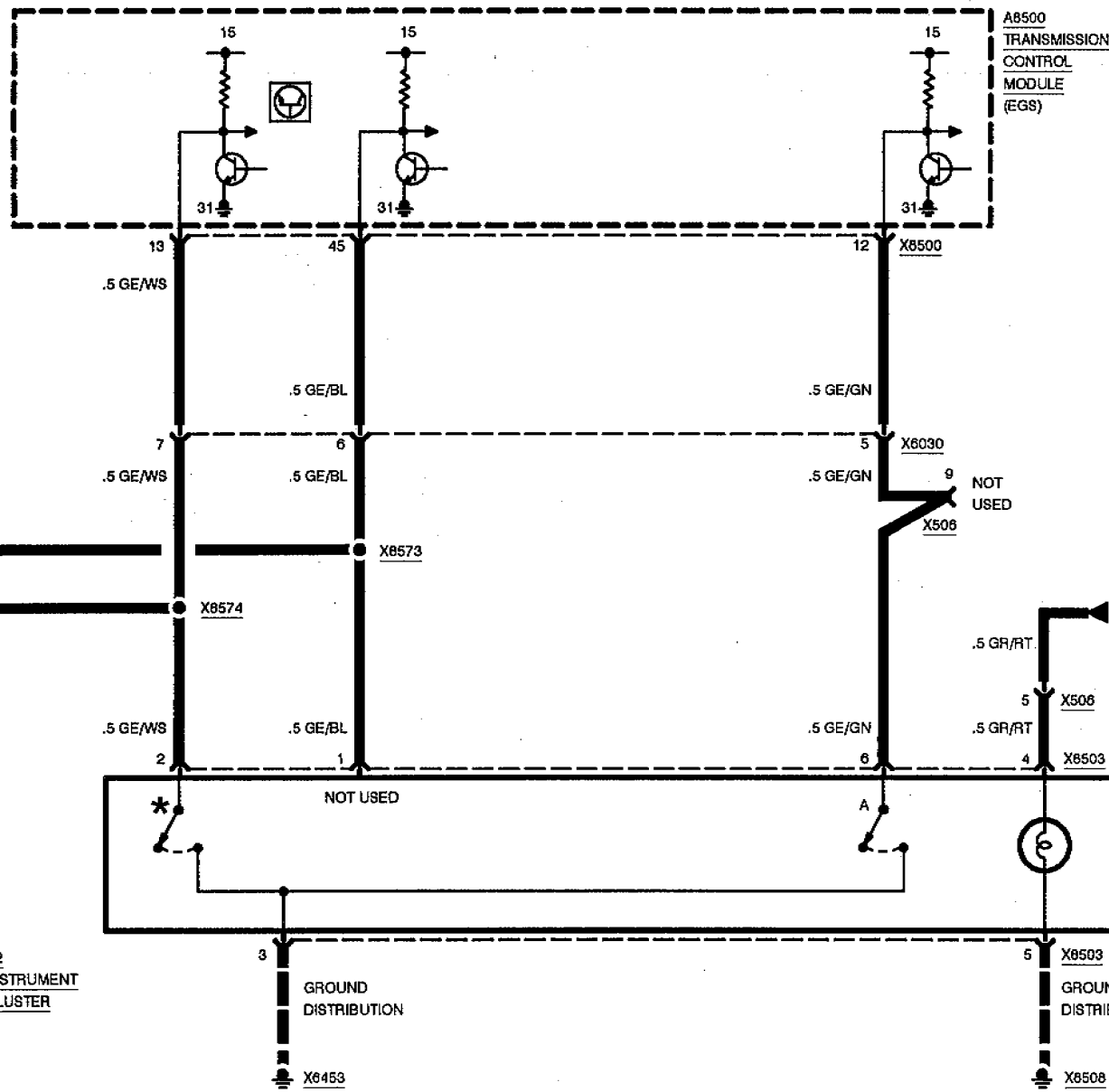
- X8505w  
TRANSMISSION  
GEAR SHIFT  
UNIT
- 1) SOLENOID VALVE 1
  - 2) SOLENOID VALVE 2
  - 3) SOLENOID VALVE 3
  - 4) PRESSURE REGULATOR 1
  - 5) PRESSURE REGULATOR 2
  - 6) PRESSURE REGULATOR 3
  - 7) PRESSURE REGULATOR 4
  - 8) PRESSURE REGULATOR 5
  - 9) OIL TEMPERATURE SENSOR
  - 10) MAXIMUM SPEED SENSOR
  - 11) SPEED SENSOR TURBINE

A8500  
TRANSMISSION  
CONTROL  
MODULE  
(EGS)



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

740i/L



A8500  
TRANSMISSION  
CONTROL  
MODULE  
(EGS)

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



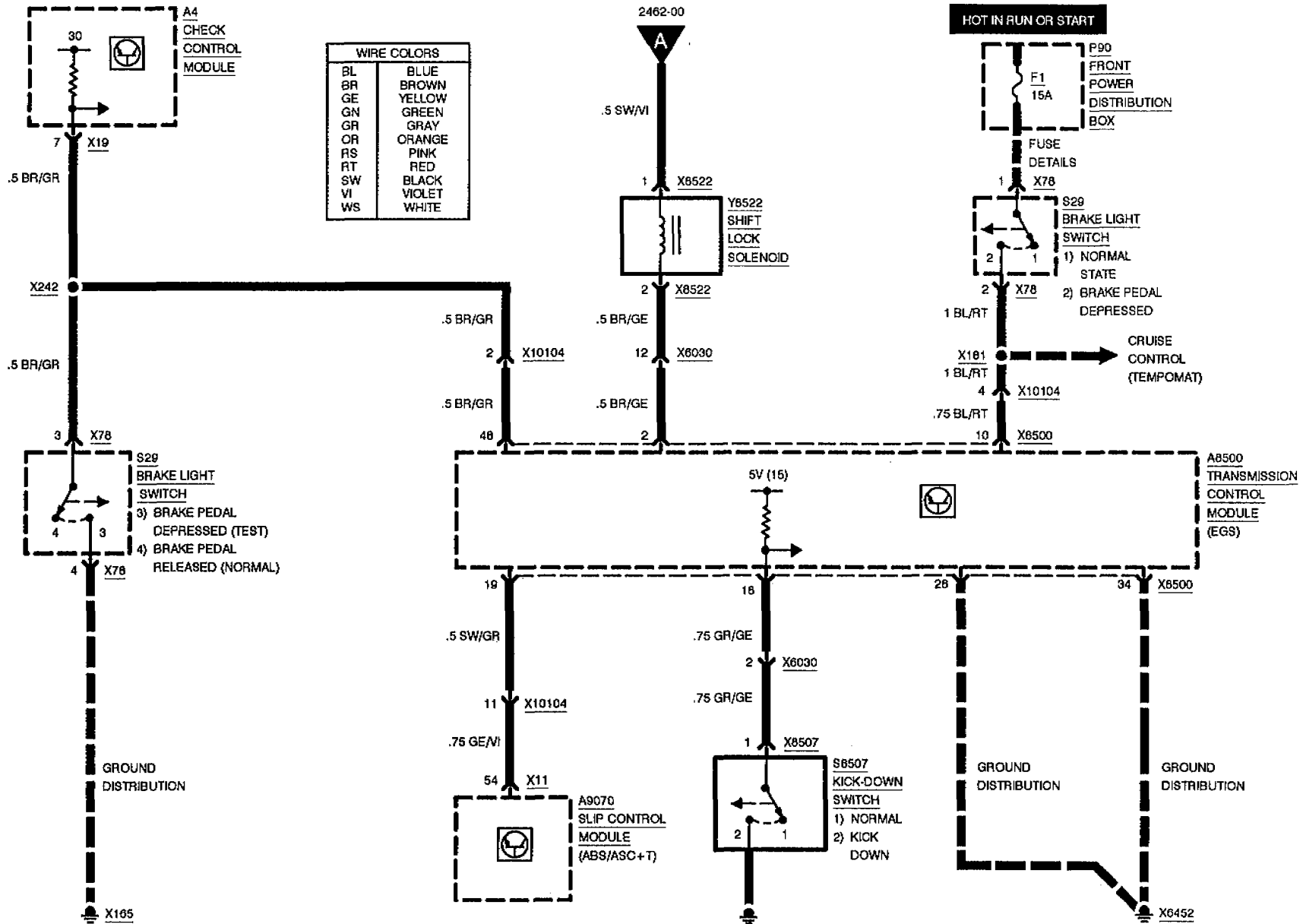
LIGHT  
SWITCH  
DETAILS

S8503  
PROGRAM  
SWITCH



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

740i/L



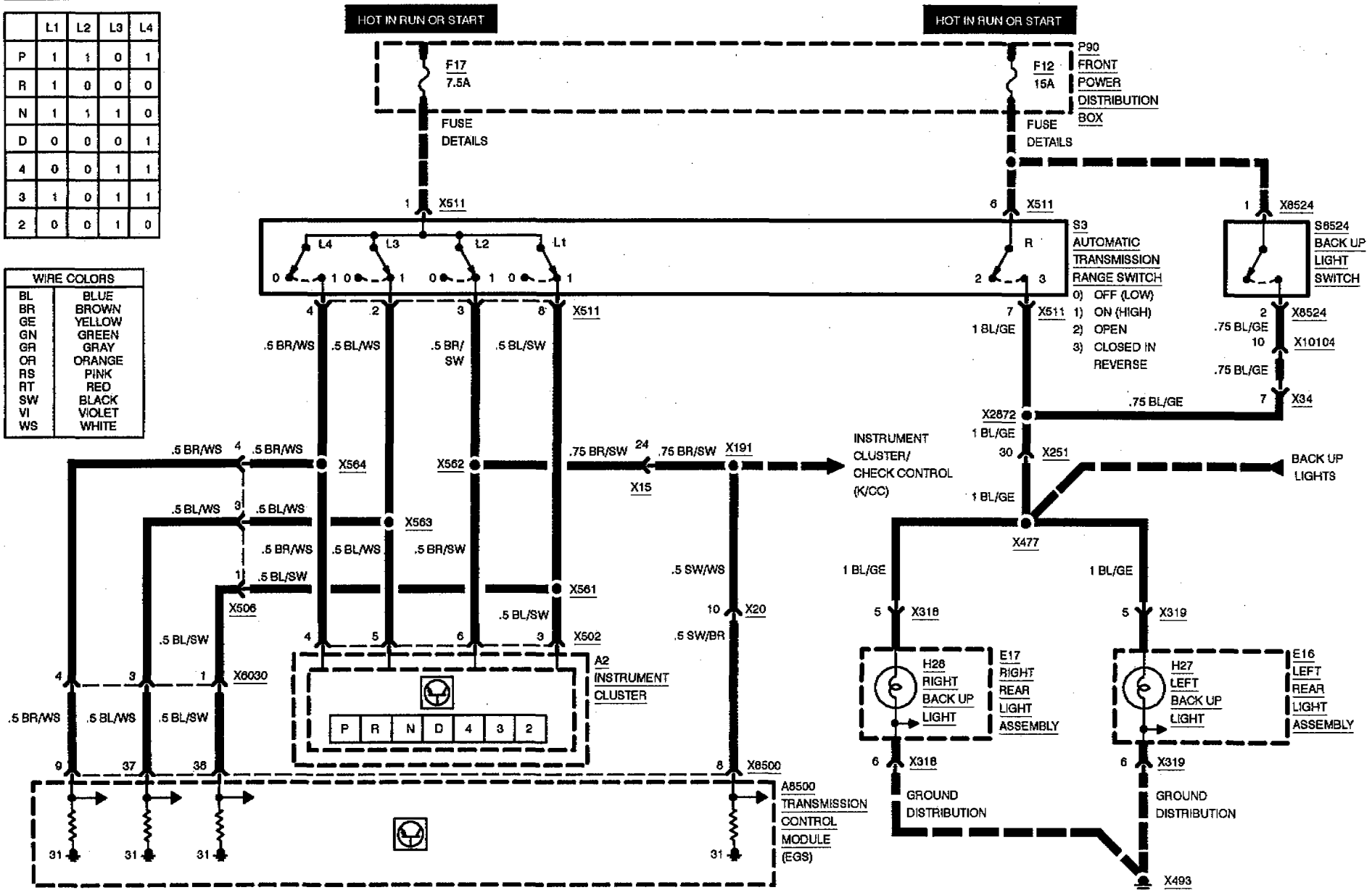


# ELECTRONIC TRANSMISSION CONTROL (EGS: GS 9.20/ A5S 560Z)

740i/L

	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

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

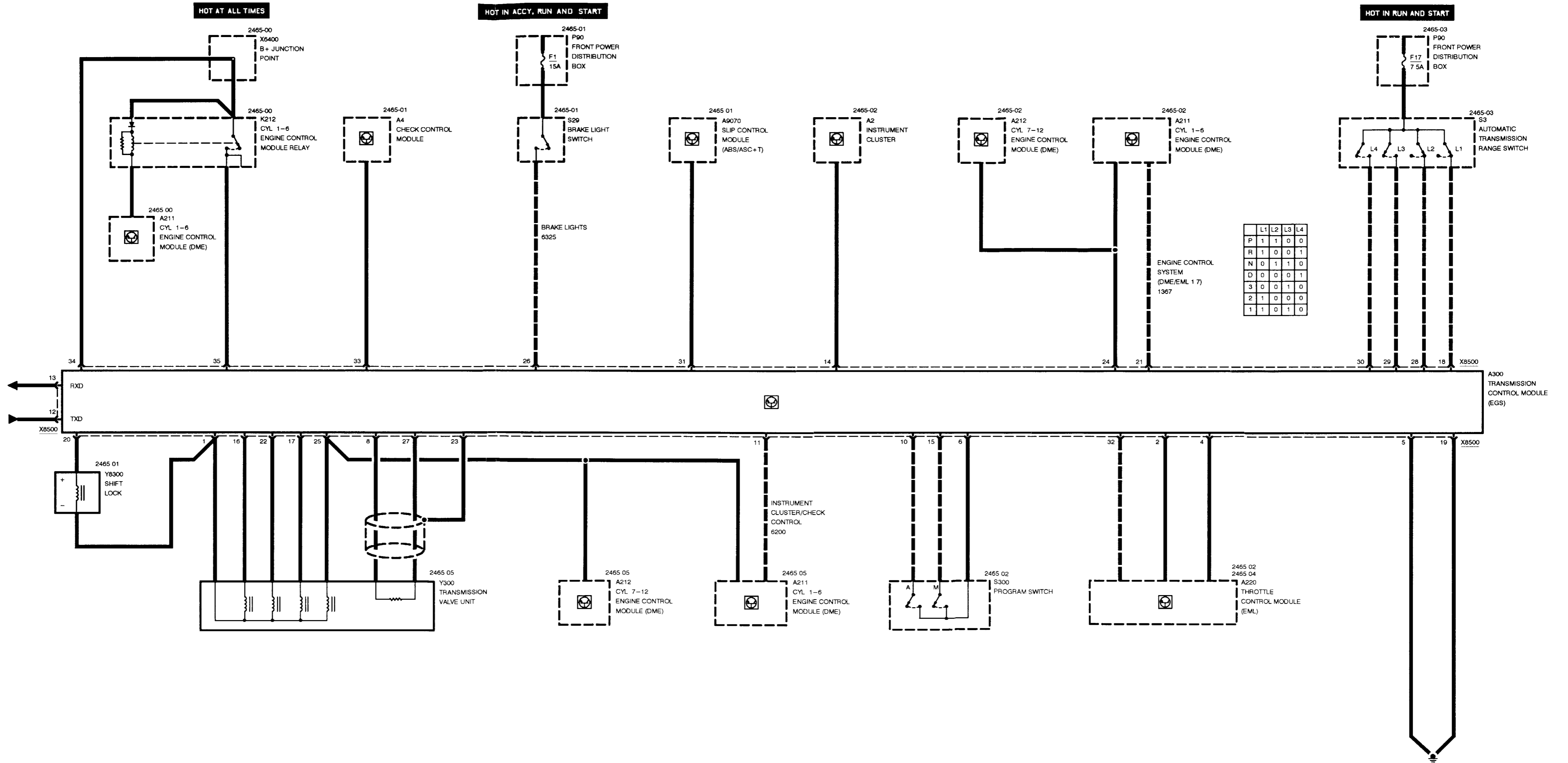


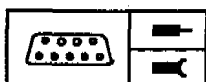
12/93

2462-04

93/94





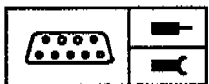


## Pin Assignments

### X8500

Pin	Type	Description/Function	Connection
1	A	Plus supply for solenoid valves	Transmission valve unit, Y300
2	E	Kick-down	Electronic throttle control module, A220
3		Not used	
4	E/A	S-program	Electronic throttle control module, A220
5	M	Ground	Ground point
6	A	Ground program button	Program switch, S300
7		Not used	
8	E	Output speed n-ab (+)	Transmission valve unit, Y300
9		Not used	
10	E	A-program button	Program switch, S300
11	E	Fuel consumption (ti-signal)	Cyl. 1–6 engine control module, A211
12	E/A	Diagnosis	Data link connector, TxD
13	A	Diagnosis	Data link connector, RxD
14	E/A	Program E	Instrument cluster, A2
15	E/A	Program M	Program switch, S300
16	A	Solenoid valve 1	Transmission valve unit, Y300
17	A	Solenoid valve 2	Transmission valve unit, Y300
18	E	Position switch L1	Transmission range switch, S3
19	M	Ground	Ground point
20	A	Ground, shift lock solenoid	Shift lock
21	E	Engine speed n-mot (tr-signal)	Cyl. 1–6 engine control module, A211
22	A	Solenoid valve pressure regulator	Transmission valve unit, Y300
23	A	Shield speed sensor	Shield speed sensor, Y300
24	E	Engine intervention	Engine control units, A211, A212
25	A	Solenoid valve torque converter clutch	Transmission valve unit, Y300
26	E	Brake test	Brake light switch, S29
27	E	Output speed n-ab (–)	Transmission valve unit, Y300
28	E	Position switch L2	Transmission range unit, S3
29	E	Position switch L3	Transmission range unit, S3
30	E	Position switch L4	Transmission range unit, S3

E = Input, A = Output, M = Ground

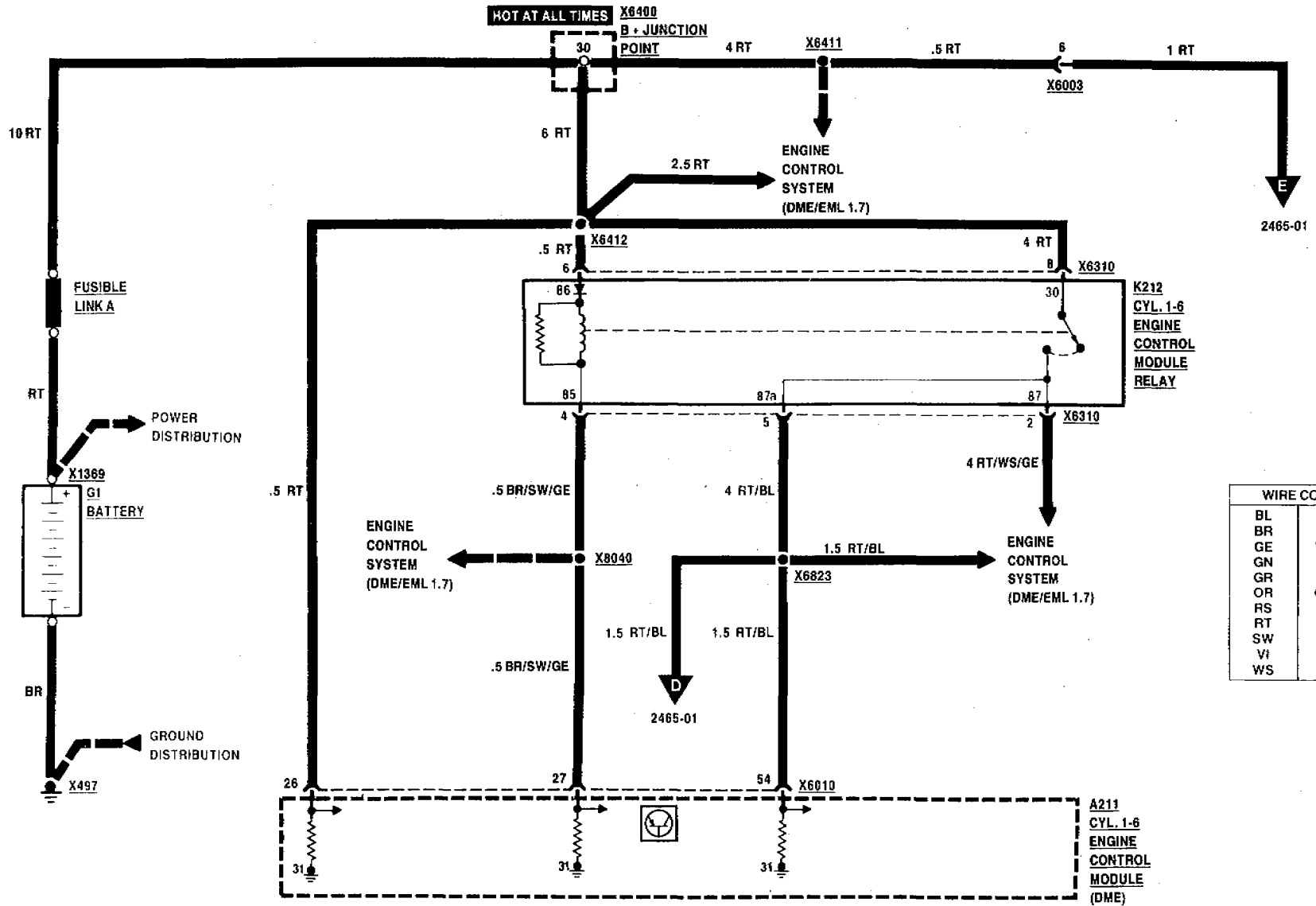


## Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Transmission intervention	Slip control module (ABS/ASC+T), A9070
32	E	Set throttle signal	Electronic throttle control module, A220
33	A	Fault display	Check control module, A4
34	E	Plus supply (terminal 30)	Front power distribution box
35	E	Plus supply (terminal 15)	Cyl. 1-6 engine control module relay, K212

E = Input, A = Output, M = Ground

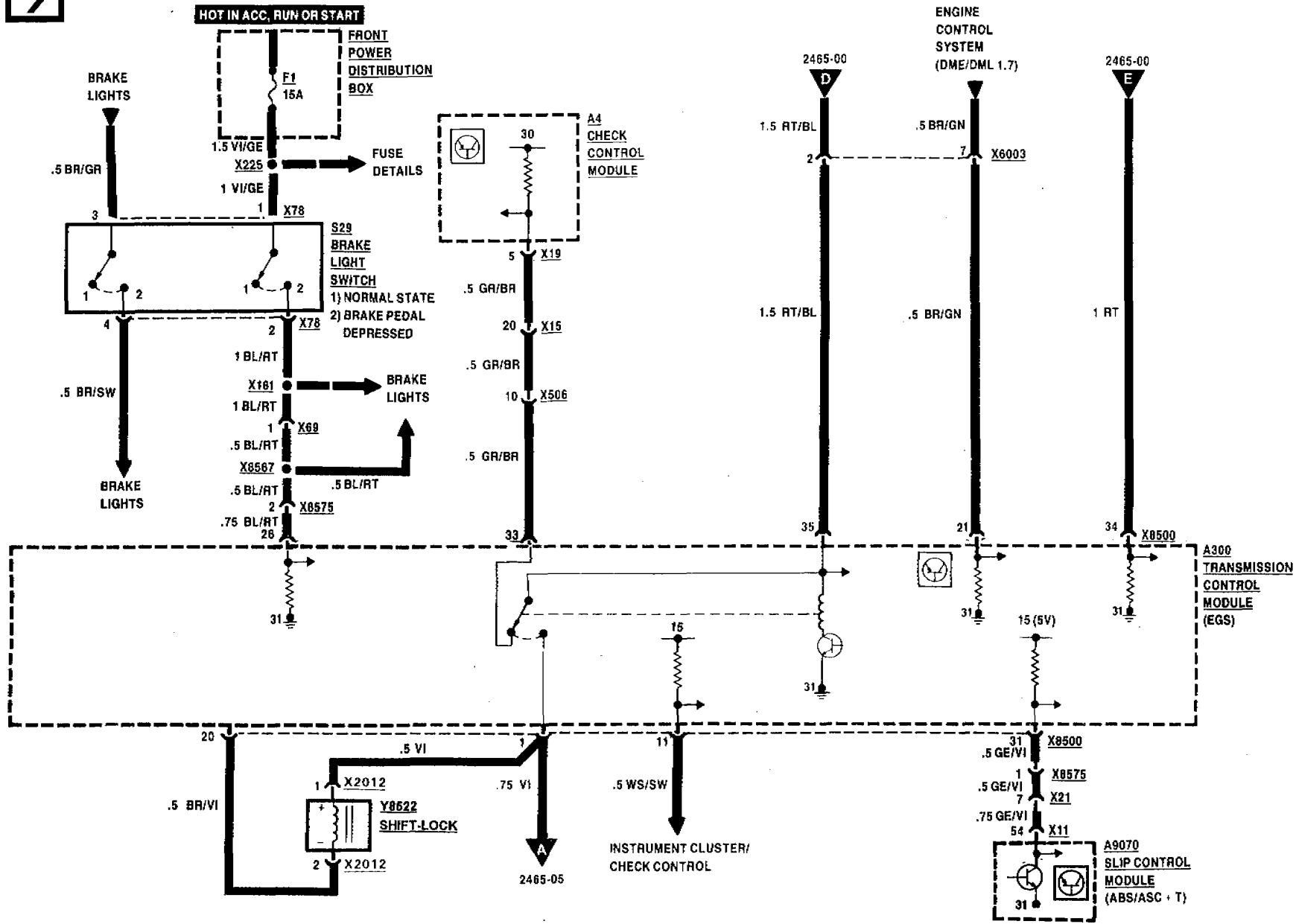




WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

# ELECTRONIC TRANSMISSION CONTROL (EGS/EML)

750iL







# ELECTRONIC TRANSMISSION CONTROL (EGS/EML)

750iL

HOT IN RUN OR START

FRONT  
POWER  
DISTRIBUTION  
BOX

F17

7.5A

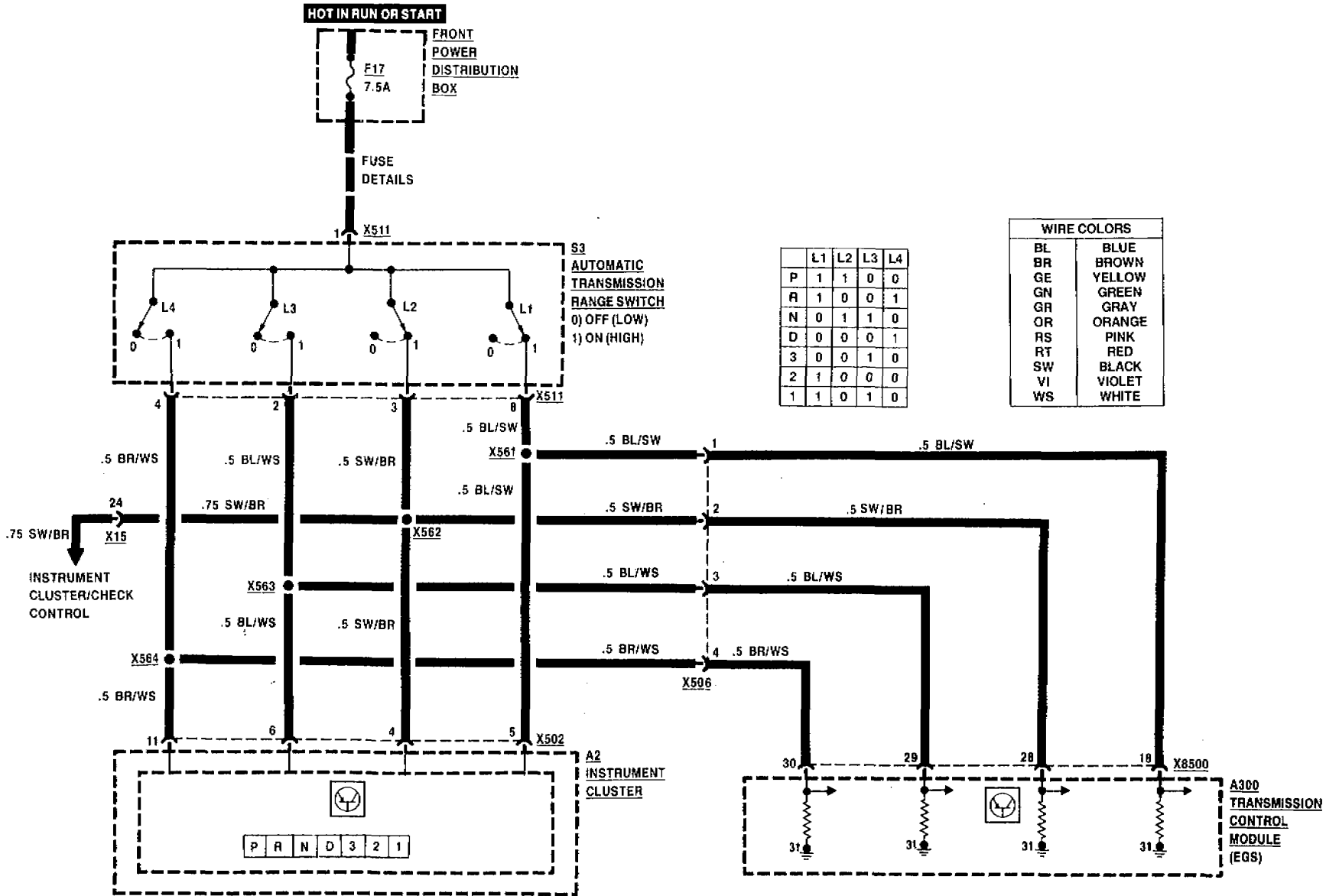
FUSE  
DETAILS

X511

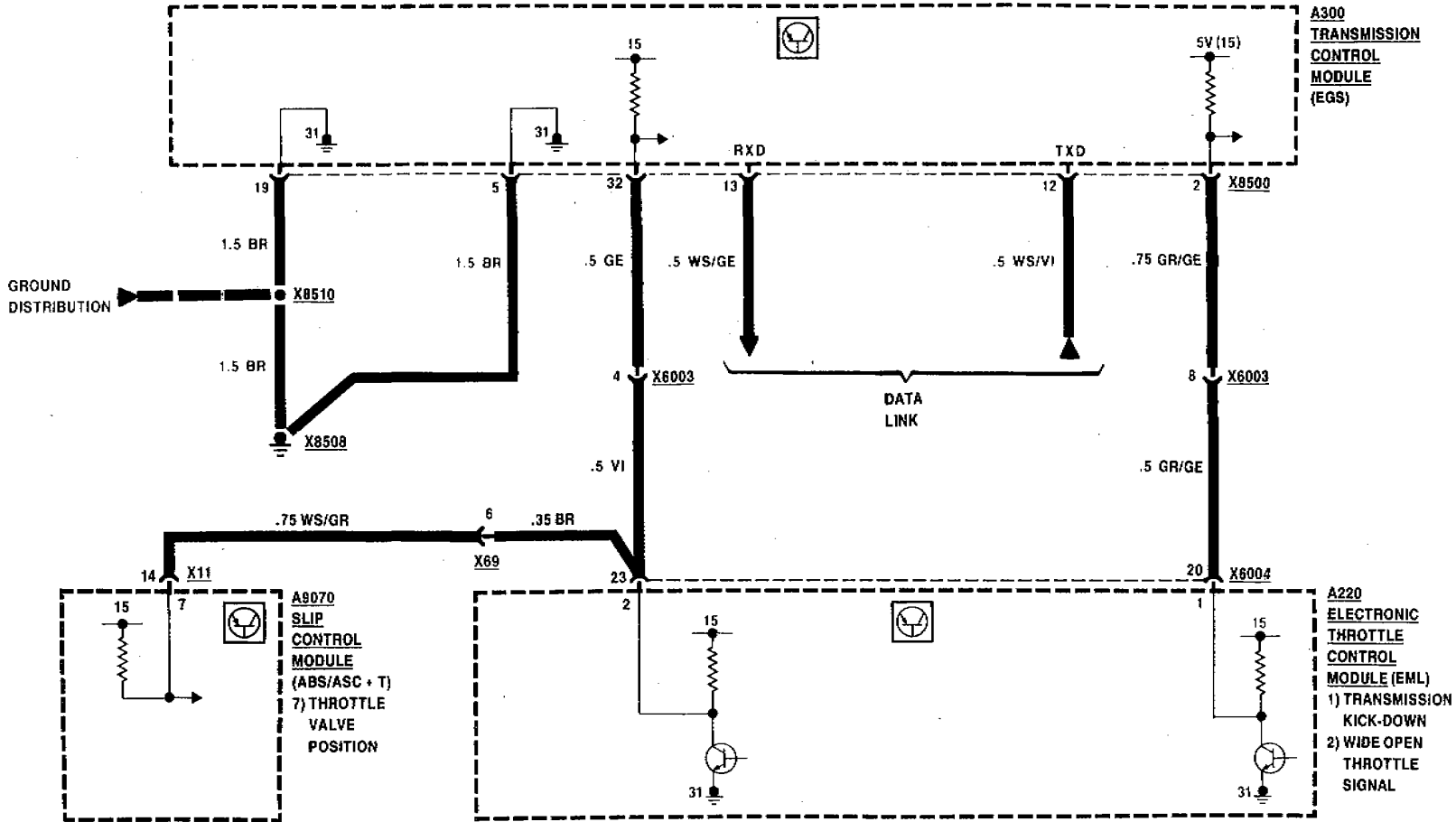
S3  
AUTOMATIC  
TRANSMISSION  
RANGE SWITCH  
0) OFF (LOW)  
1) ON (HIGH)

	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

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



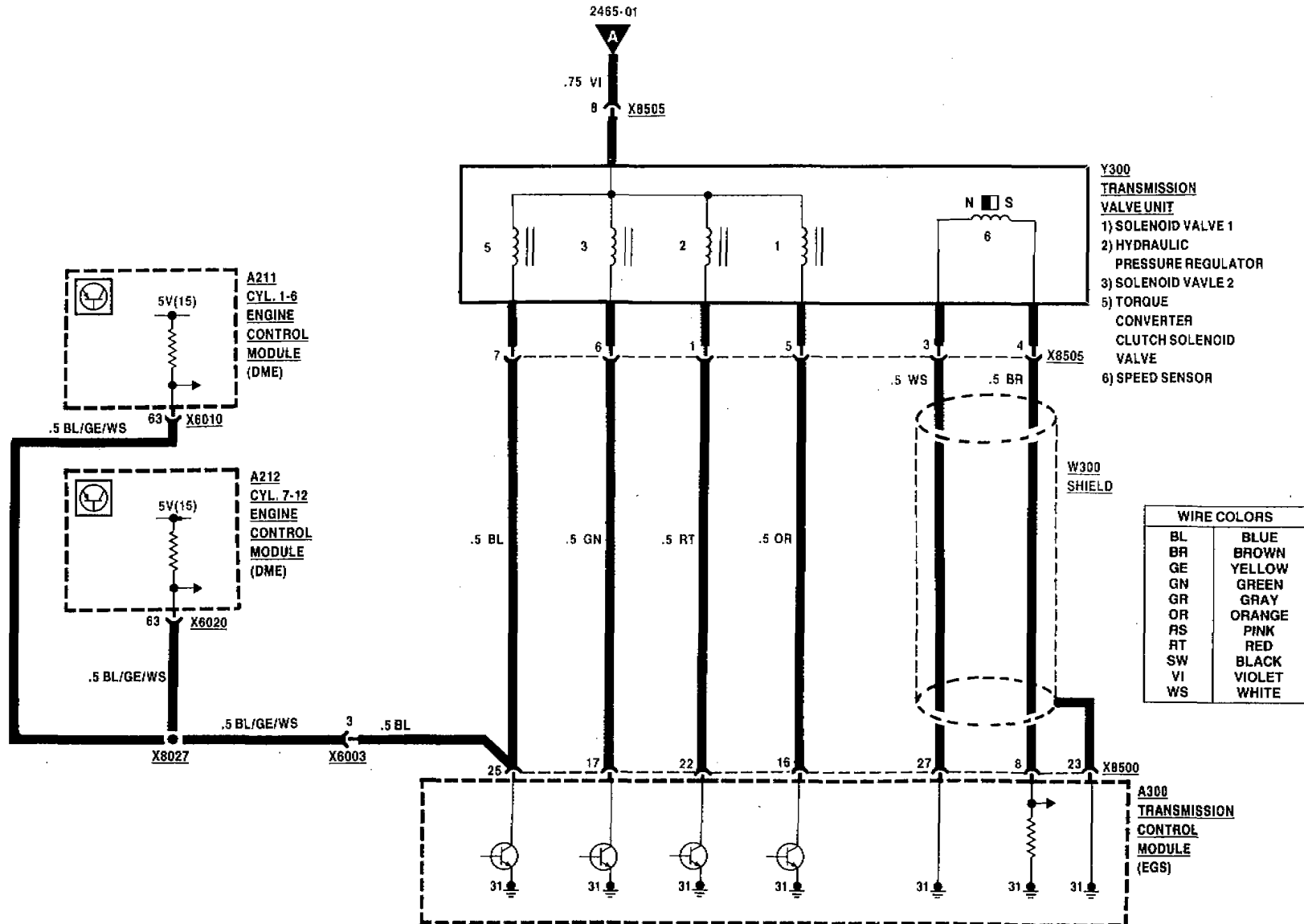






# ELECTRONIC TRANSMISSION CONTROL (EGS/EML)

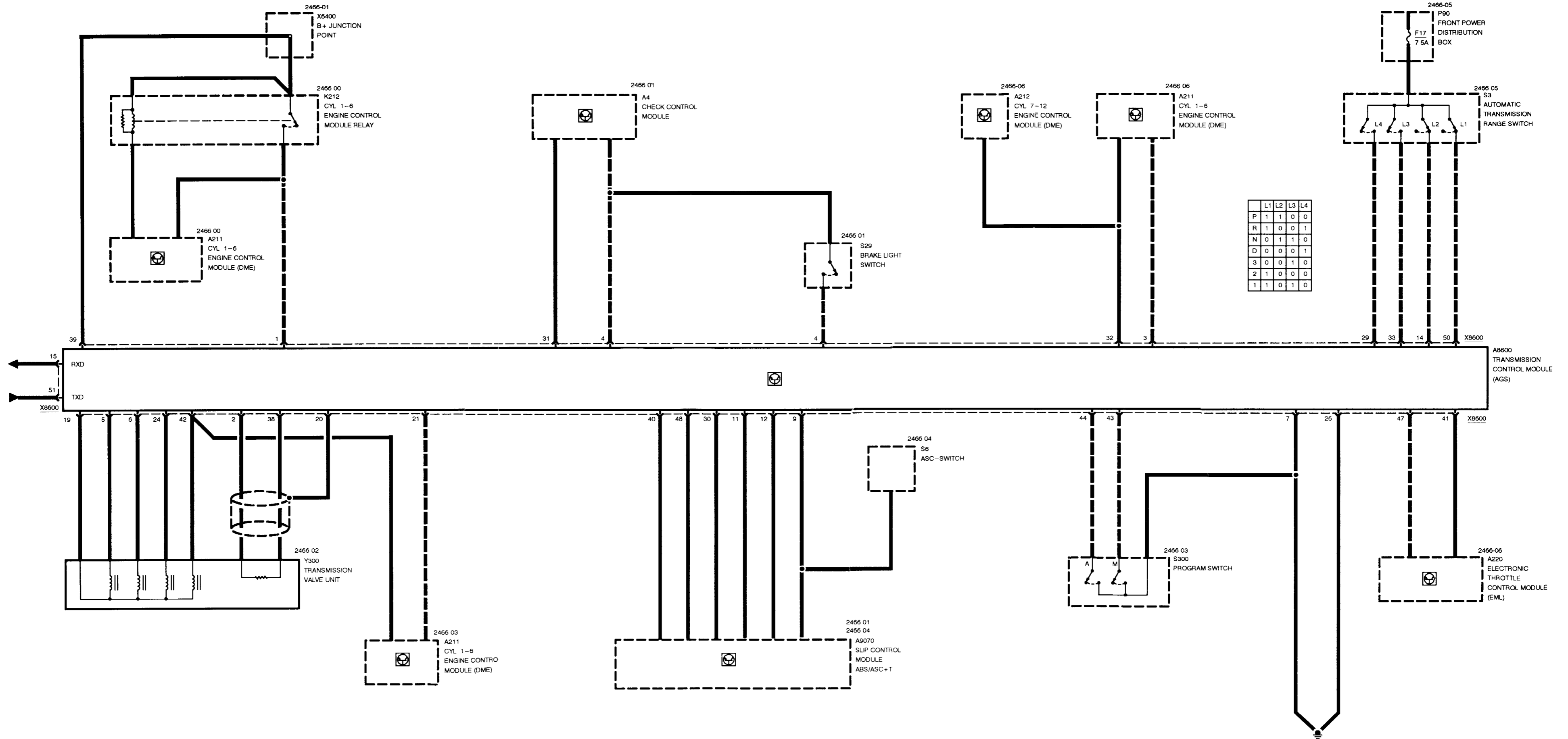
## 750iL

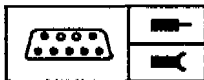




HOT AT ALL TIMES

HOT IN RUN AND START



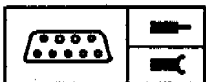


## Pin Assignments

### X8600

Pin	Type	Description/Function	Connection
1	E	Plus supply (KL 87)	DME relay
2	E	Signal output speed (+)	Transmission valve unit
3	E	RPM signal	Engine control unit, A211
4	E	Brake test	Brake light switch, S29
5	A	Solenoid valve 1	Transmission valve unit
6	A	Solenoid valve pressure regulator	Transmission valve unit
7	M	Ground	Ground point
8		Not used	
9	E	Signal ASC—Passive	Slip control module (ABS/ASC+T)
10	E	Signal brake test switch	Brake light switch, S29
11	E	Signal rear left wheel speed	Slip control module (ABS/ASC+T)
12	E	Signal rear right wheel speed	Slip control module (ABS/ASC+T)
13		Not used	
14	E	Position switch L2	Transmission range switch, S3
15	A	RXD/Diagnosis	Data link connector
16		Not used	
17		Not used	
18		Not used	
19	A	Plus supply for solenoid valves	Transmission valve unit
20	M	Shield speed sensor	Speed sensor
21	E	Fuel consumption (ti-signal)	Cyl. 1–6 engine control module, A211
22		Not used	
23		Not used	
24	A	Solenoid valve 2	Transmission valve unit
25		Not used	
26	M	Ground	Ground point
27		Not used	
28		Not used	
29	E	Position switch L4	Transmission range switch, S3
30	E	Signal front right wheel speed	Slip control module (ABS/ASC+T)

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
31	A	Fault display	Check control module
32	E	Engine intervention	Engine control units, A211, A212
33	E	Position switch L3	Transmission range switch, S3
34		Not used	
35		Not used	
36		Not used	
37		Not used	
38	E	Signal output speed (-)	Transmission valve unit
39	E	Terminal 30 voltage supply	B+ junction point
40	E	ASC signal	Slip control module (ABS/ASC+T)
41	E	Kick down signal	Kick down switch
42	A	Solenoid valve torque converter clutch	Transmission valve unit
43	E/A	Program S	Program switch
44	E/A	Program A	Program switch
45		Not used	
46		Not used	
47	E	Set throttle signal	Electronic throttle control module
48	E	Signal front left wheel speed	Slip control module (ABS/ASC+T)
49		Not used	
50	E	Position switch L1	Transmission range switch, S3
51	E/A	TXD/Diagnosis	Data link connector
52		Not used	
53		Not used	
54		Not used	
55		Not used	

E = Input, A = Output, M = Ground





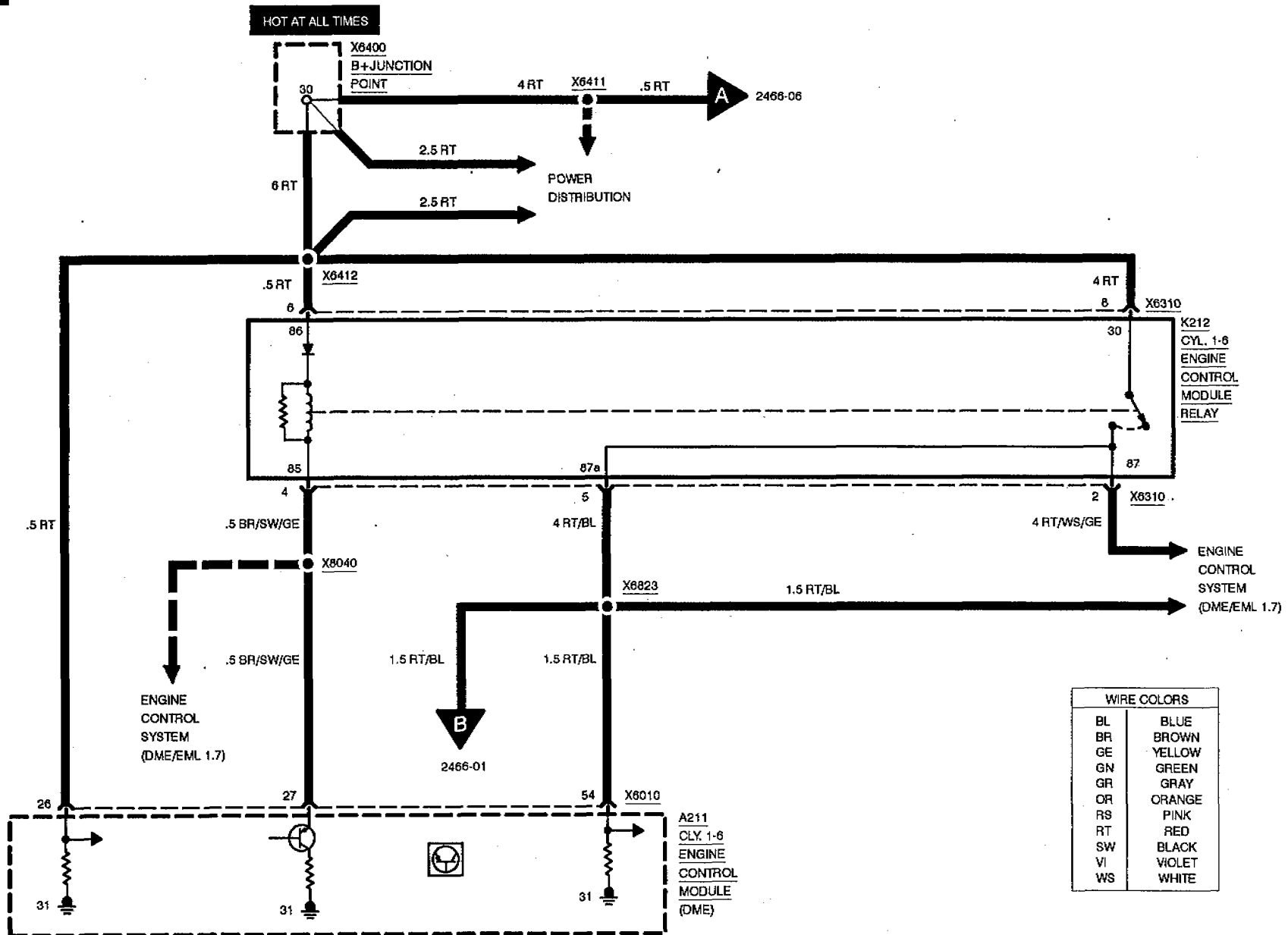
# ADAPTIVE TRANSMISSION CONTROL (AGS)

750iL

12/93

2466-00

93/94



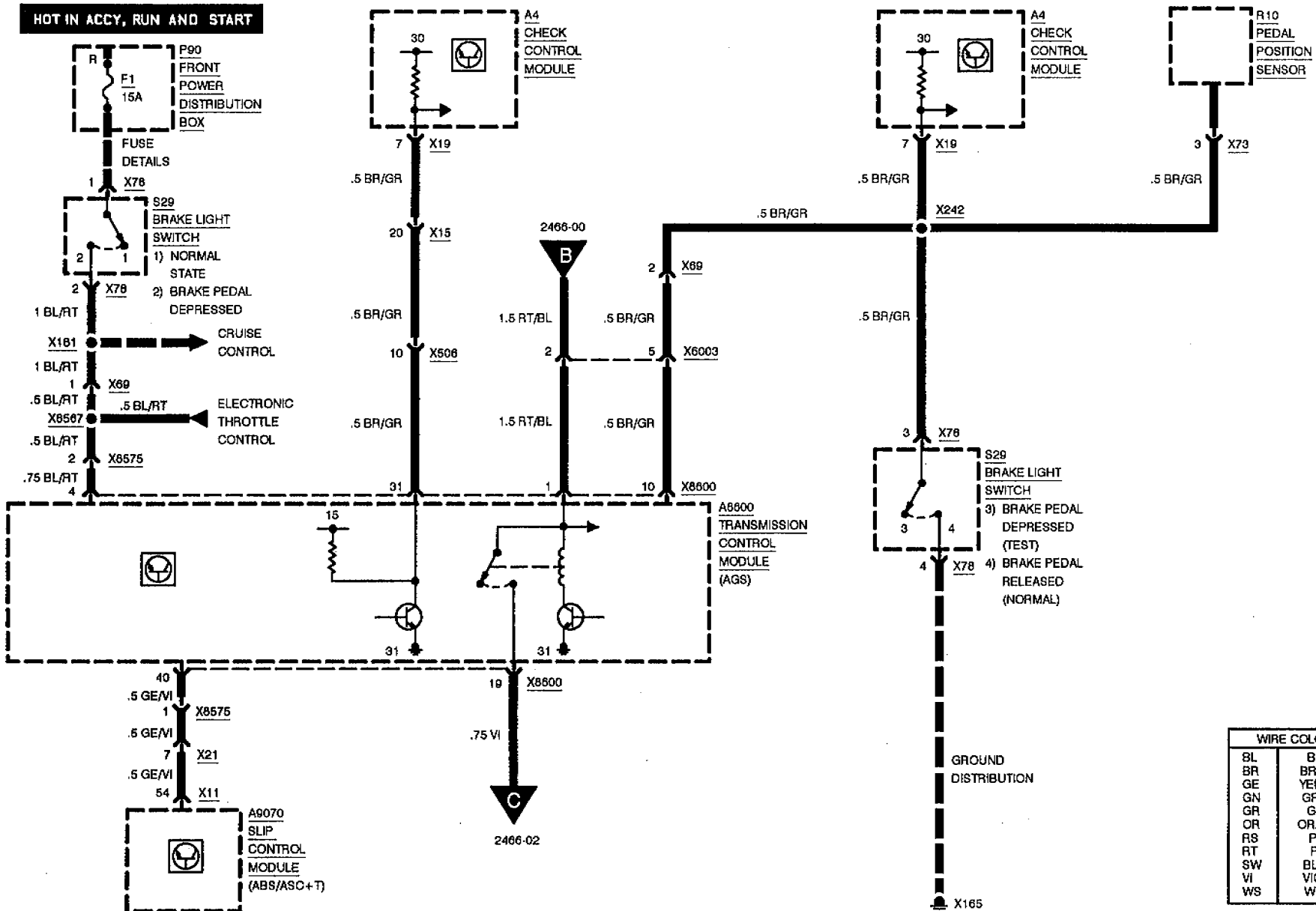
93/94





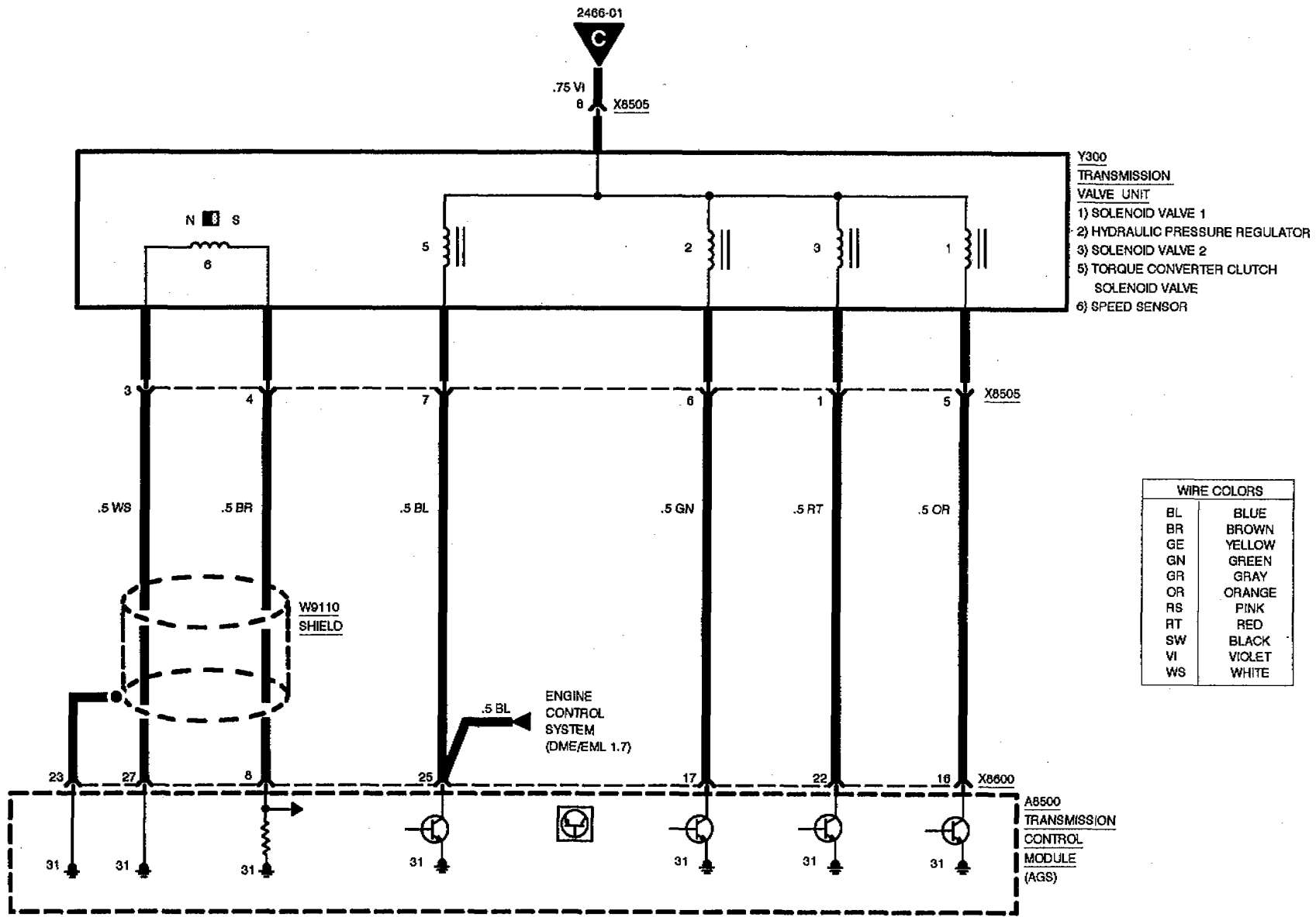
# ADAPTIVE TRANSMISSION CONTROL (AGS)

750iL





# ADAPTIVE TRANSMISSION CONTROL (AGS)



- Y300  
TRANSMISSION  
VALVE UNIT**
- 1) SOLENOID VALVE 1
  - 2) HYDRAULIC PRESSURE REGULATOR
  - 3) SOLENOID VALVE 2
  - 5) TORQUE CONVERTER CLUTCH SOLENOID VALVE
  - 6) SPEED SENSOR

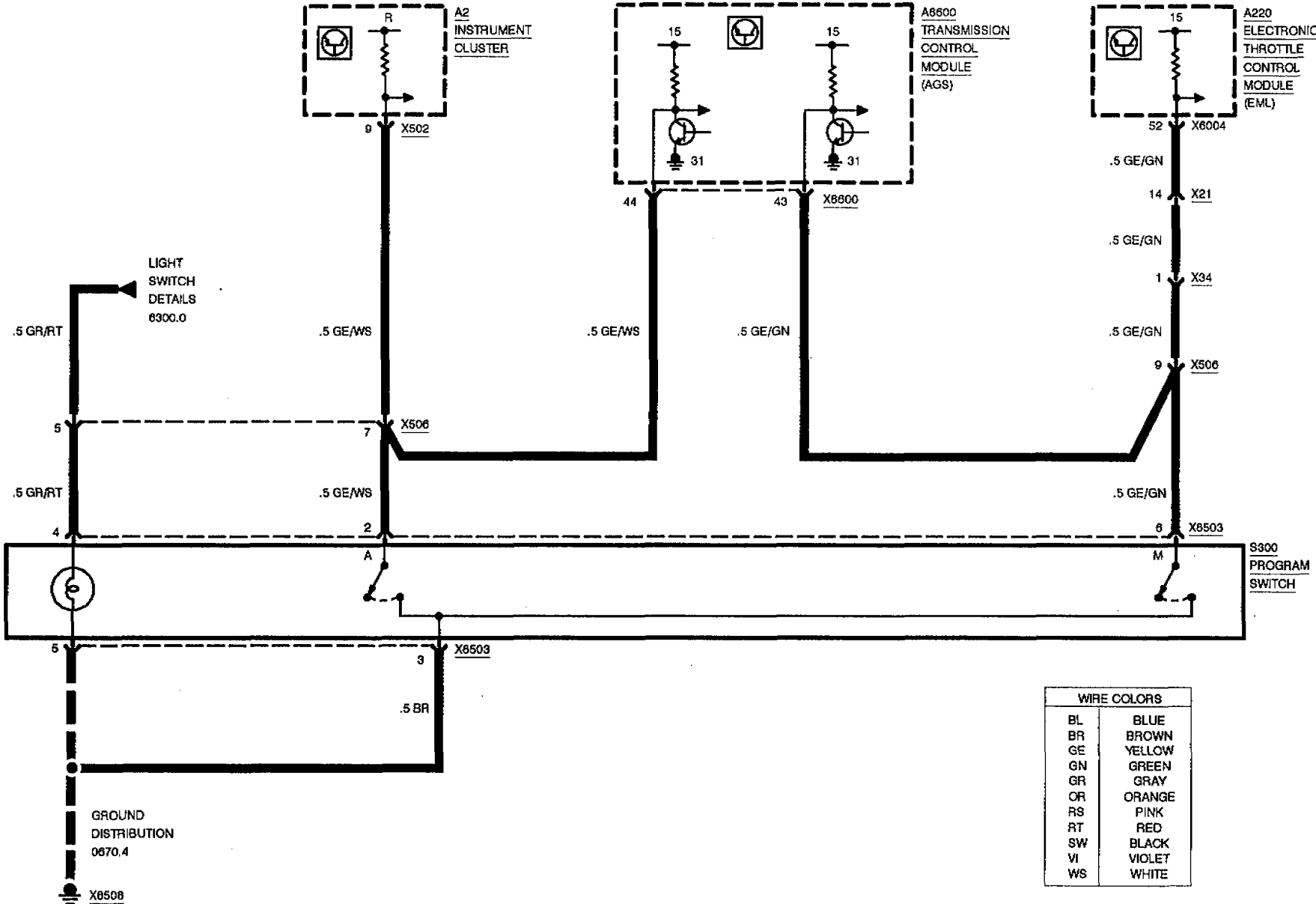
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# ADAPTIVE TRANSMISSION CONTROL (AGS)

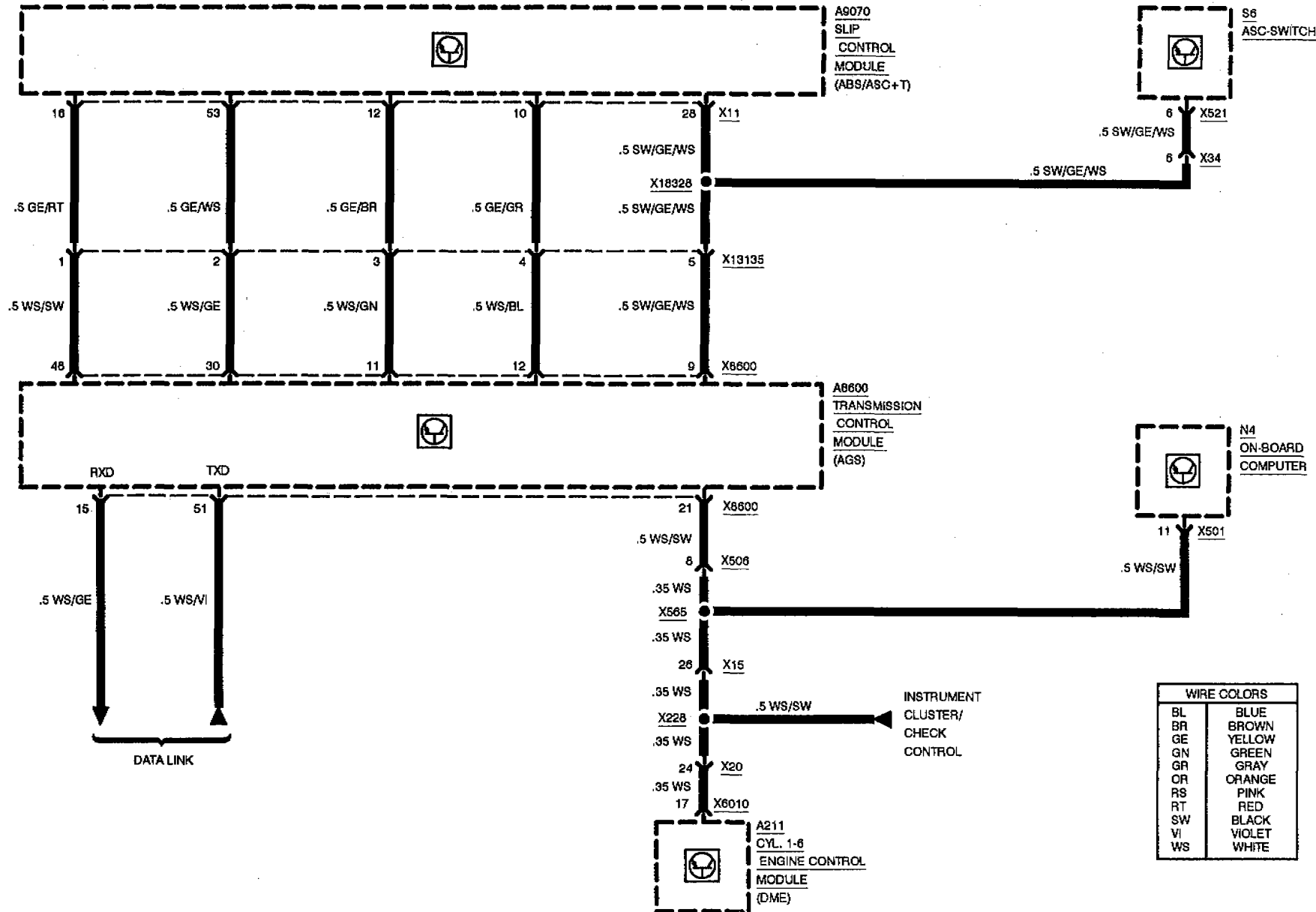
750iL

## TWO POSITION PROGRAM SWITCH



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

12/93 2466-03 93/94





# ADAPTIVE TRANSMISSION CONTROL (AGS)

750iL

HOT IN RUN OR START

P90  
FRONT  
POWER  
DISTRIBUTION

F17  
7.5A

FUSE  
DETAILS

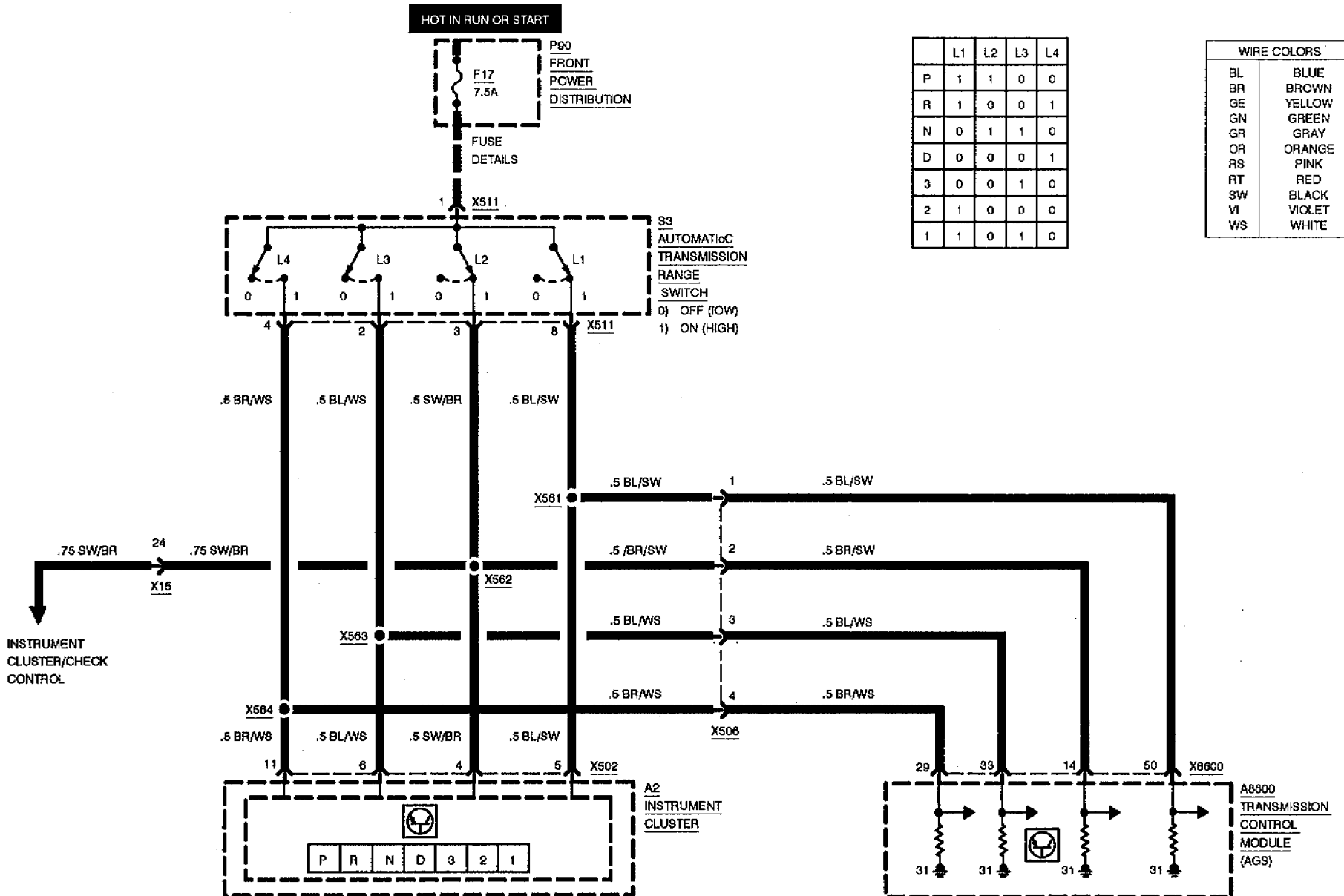
X511

S3  
AUTOMATIC  
TRANSMISSION  
RANGE  
SWITCH

0) OFF (LOW)  
1) ON (HIGH)

	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

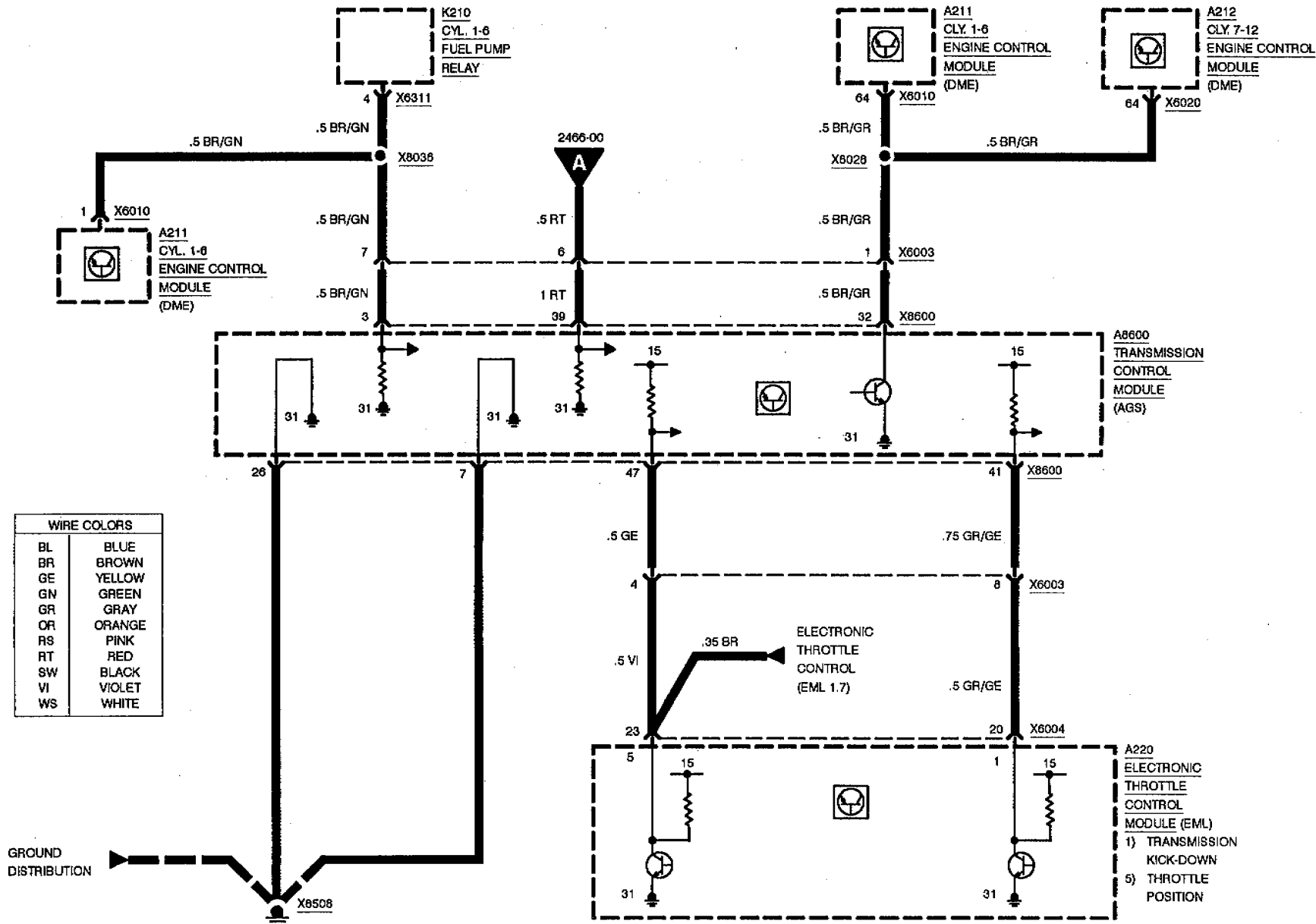
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# ADAPTIVE TRANSMISSION CONTROL (AGS)

750iL







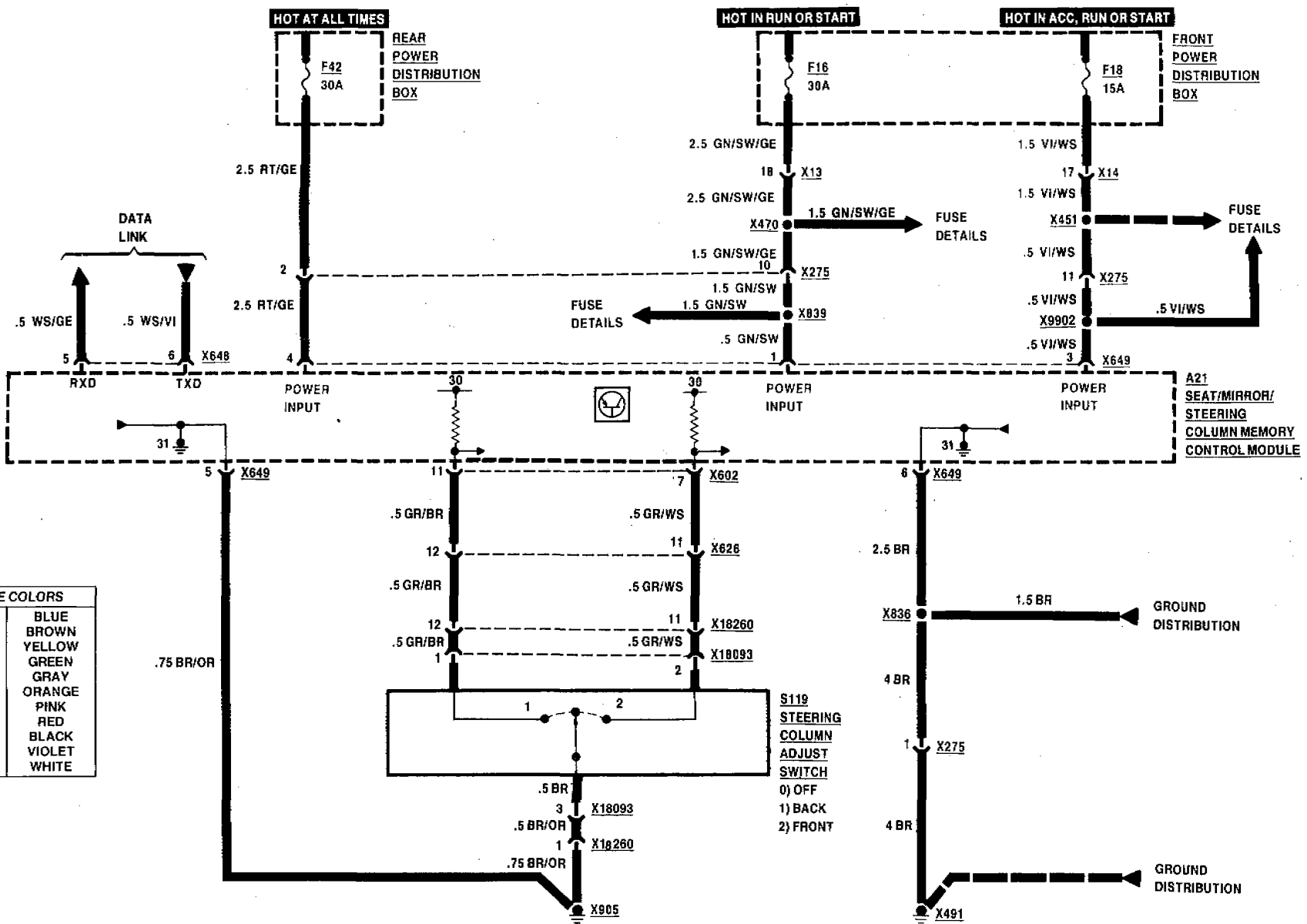
# MEMORY STEERING COLUMN

12/93

3231-00

93/94

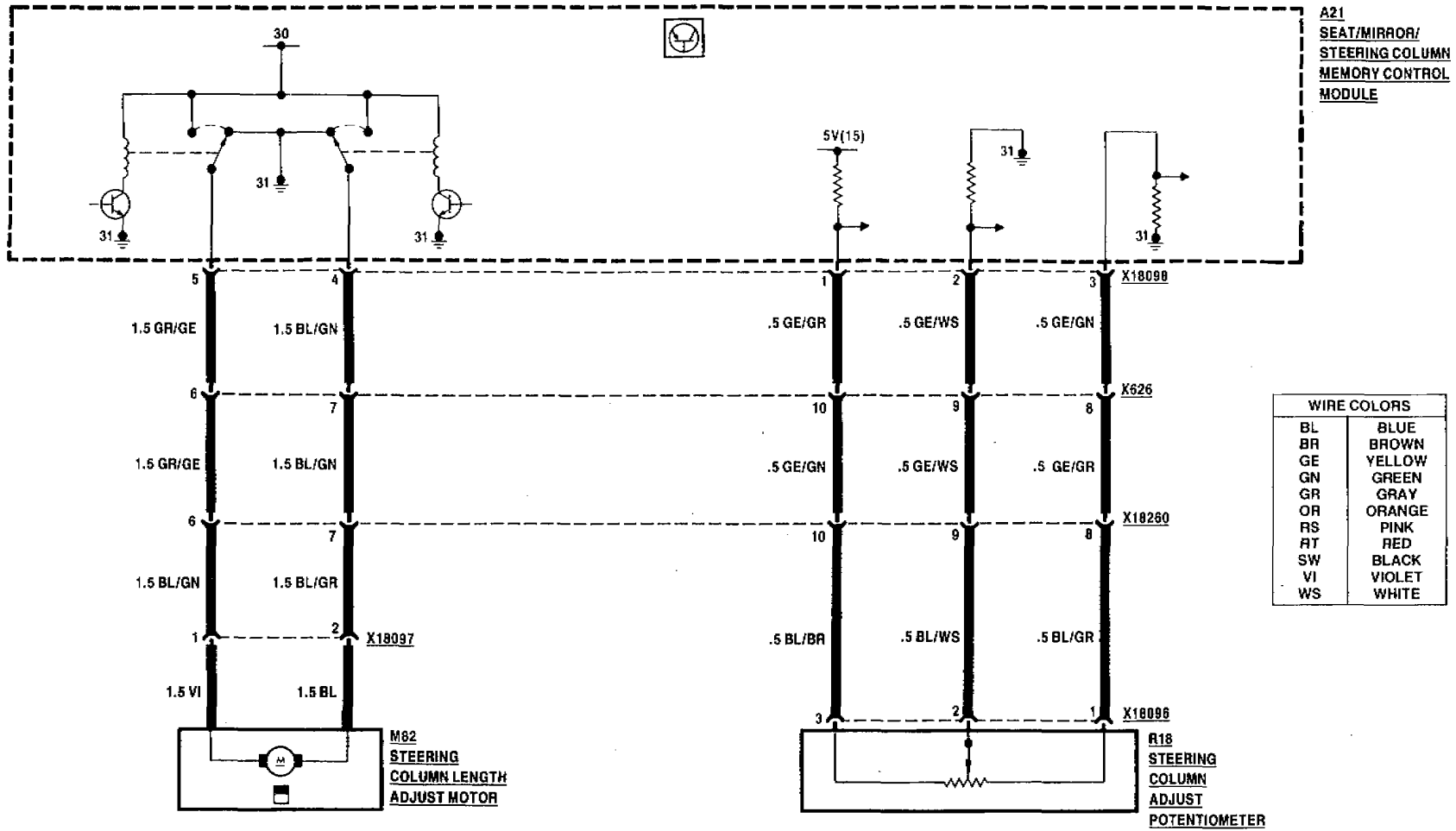
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



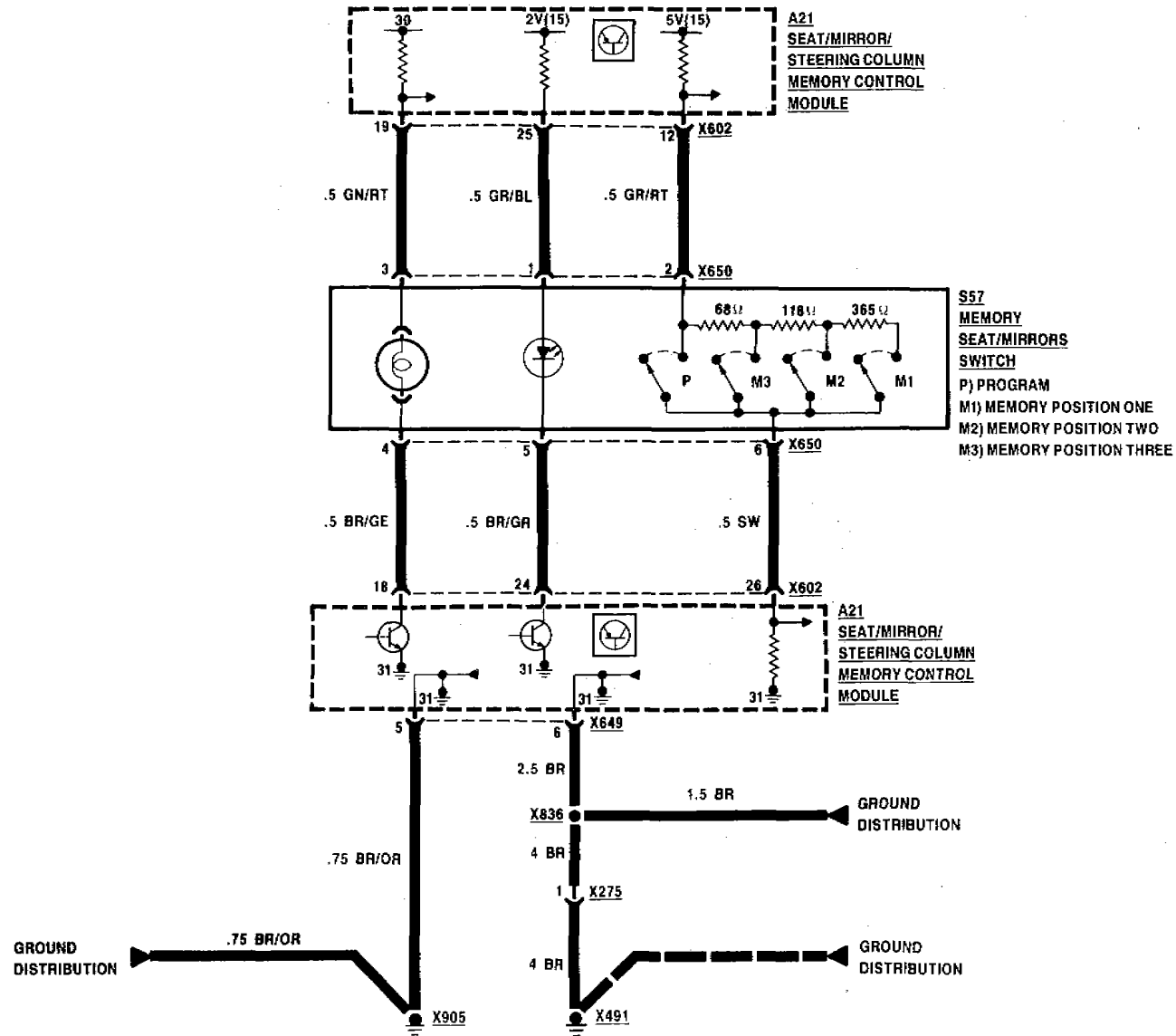




# MEMORY STEERING COLUMN



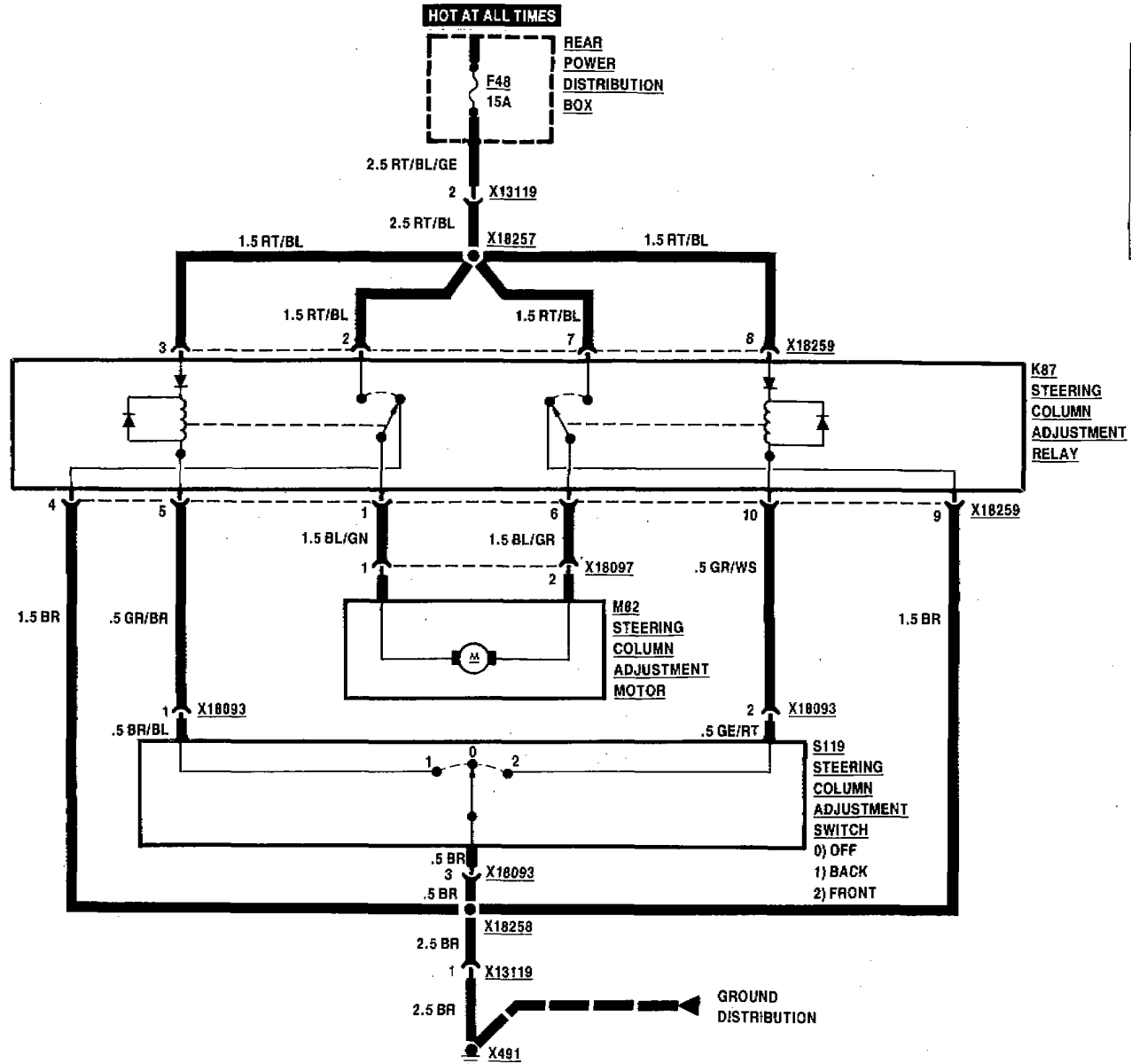
# MEMORY STEERING COLUMN







# POWER STEERING COLUMN ADJUST

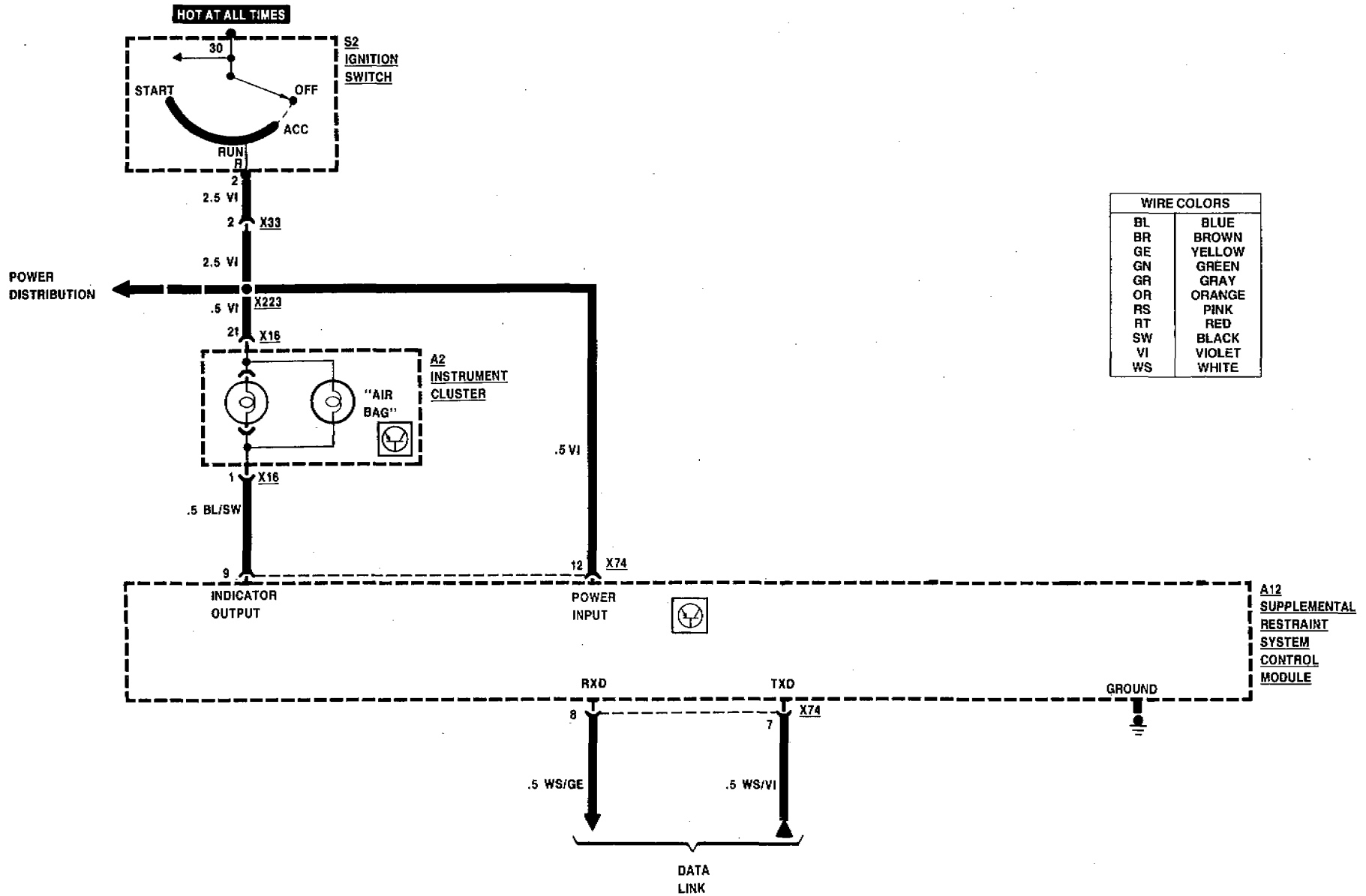


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



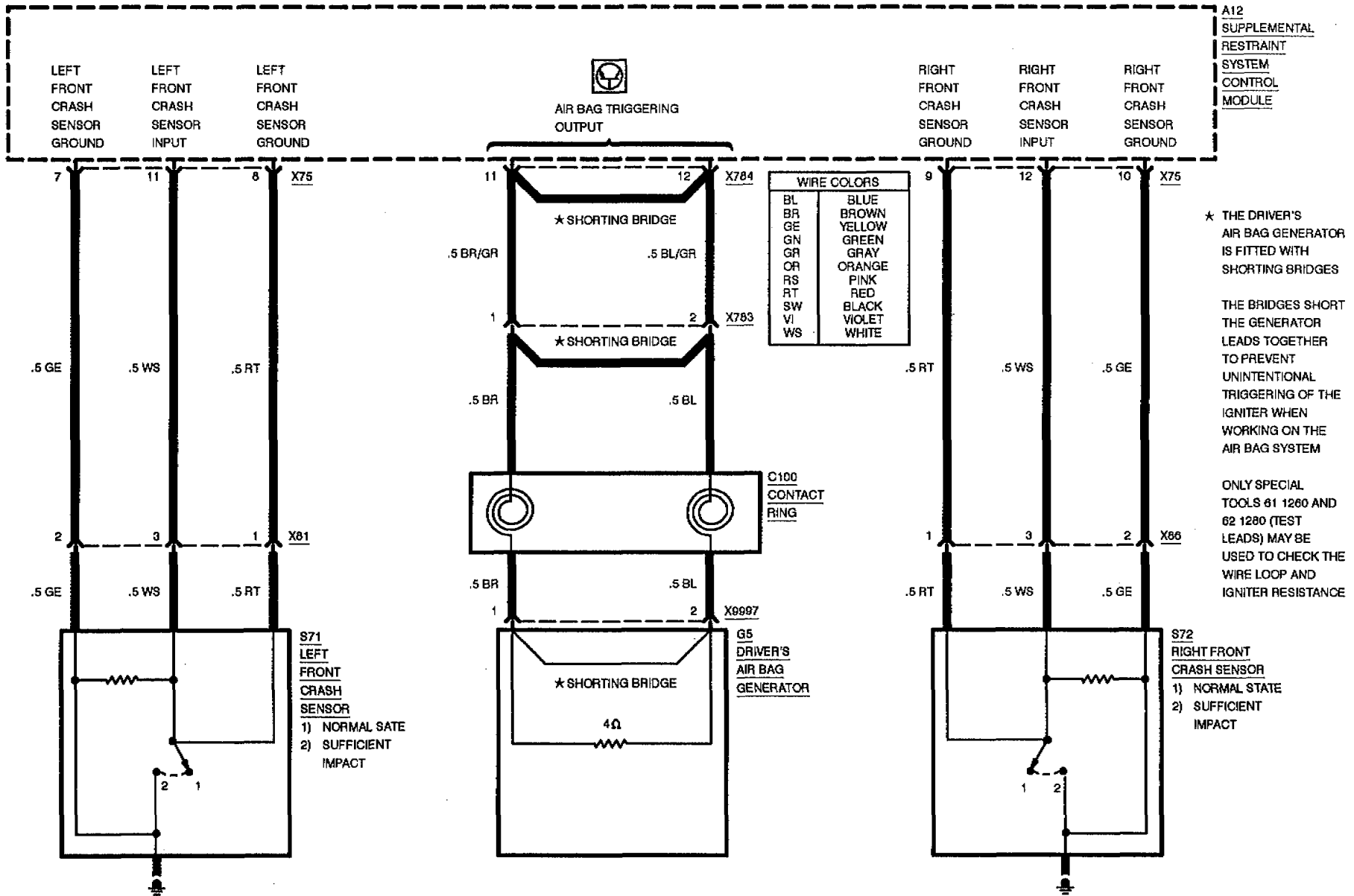


# SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



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

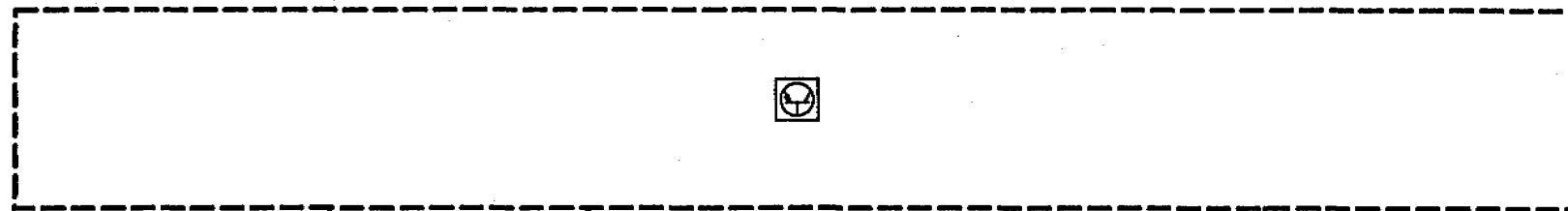
**SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)**



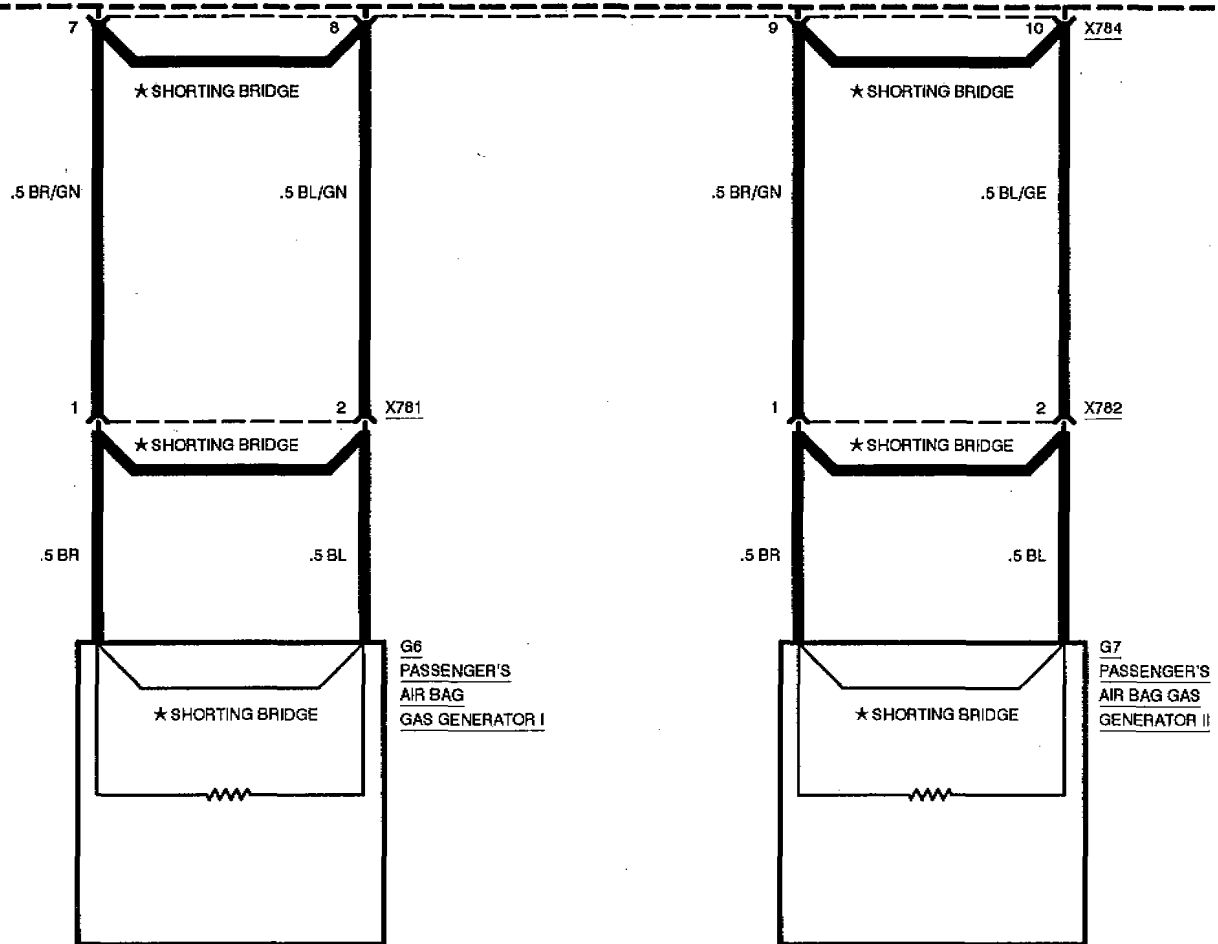


# SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

## WITH PASSENGER'S AIR BAG



A12  
SUPPLEMENTAL  
RESTRAINT  
SYSTEM  
CONTROL  
MODULE



★ THE PASSENGER'S AIR BAG GENERATOR IS FITTED WITH SHORTING BRIDGES

THE BRIDGES SHORT THE GENERATOR LEADS TOGETHER TO PREVENT UNINTENTIONAL TRIGGERING OF THE IGNITER WHEN WORKING ON THE AIR BAG SYSTEM

ONLY SPECIAL TOOLS 61 1260 AND 62 1280 (TEST LEADS) MAY BE USED TO CHECK THE WIRE LOOP AND IGNITER RESISTANCE

G6  
PASSENGER'S  
AIR BAG  
GAS GENERATOR I

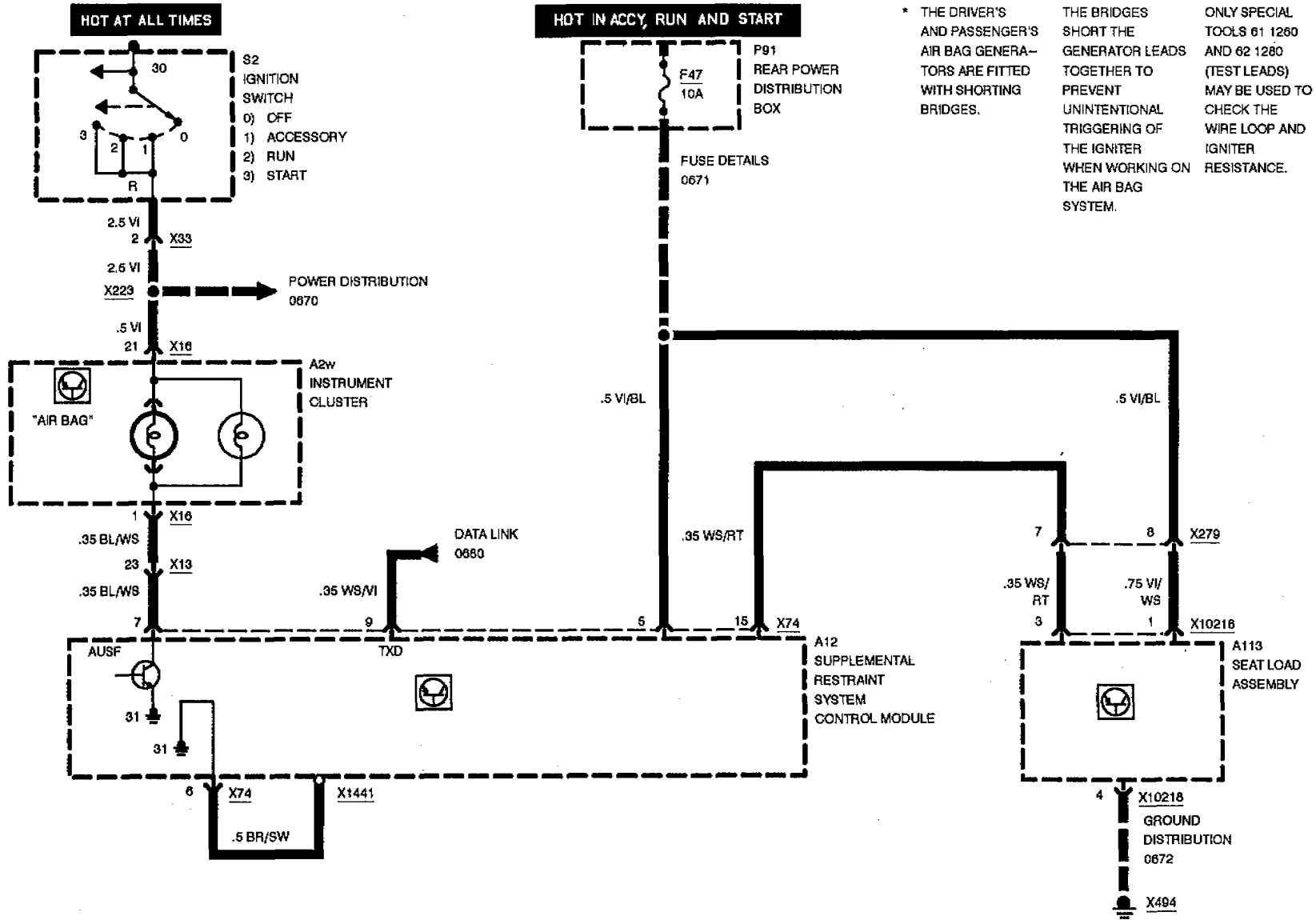
G7  
PASSENGER'S  
AIR BAG GAS  
GENERATOR II





# SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

## LATE PRODUCTION

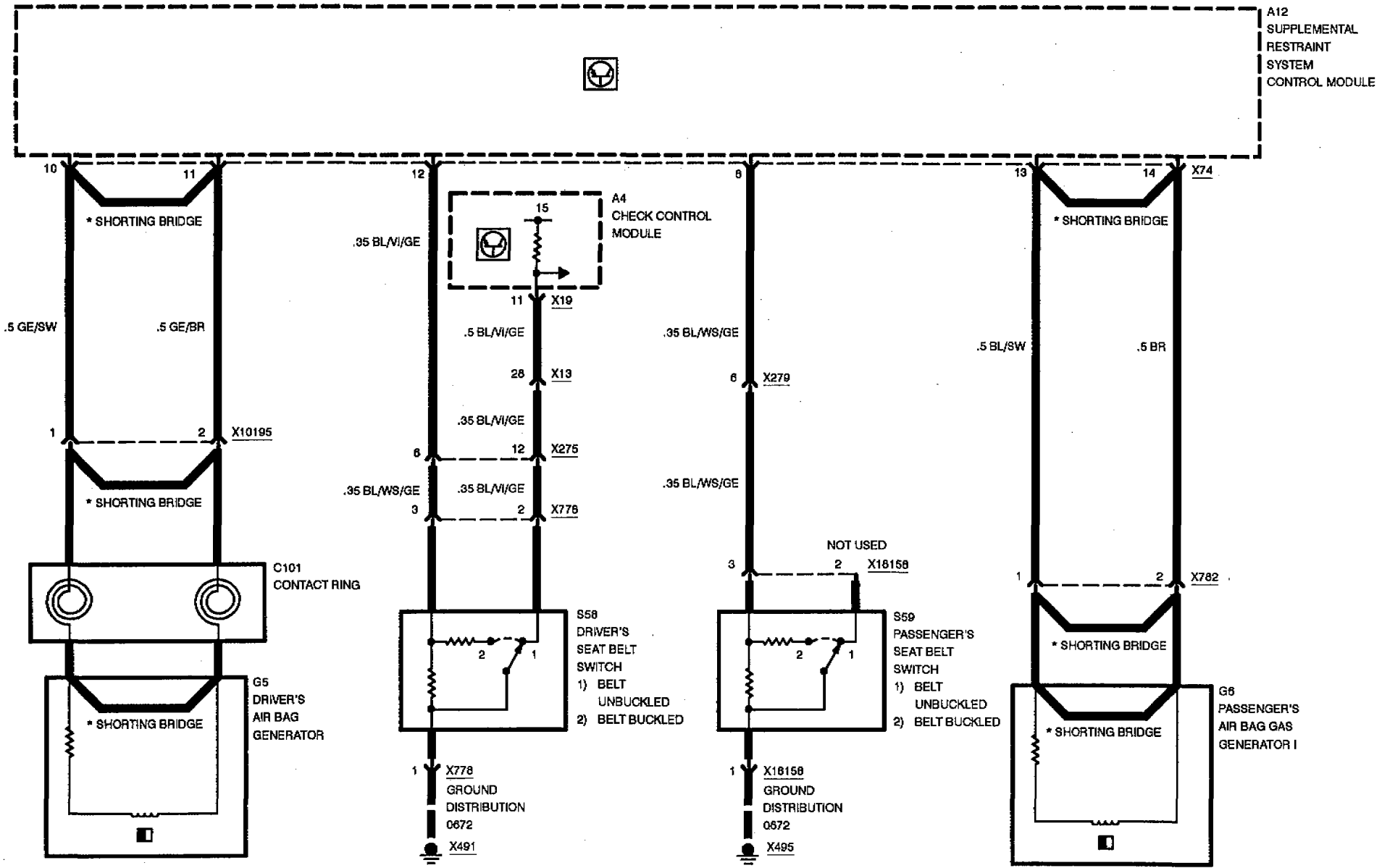




# SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)

## LATE PRODUCTION

12/93  
93/94  
3234-04





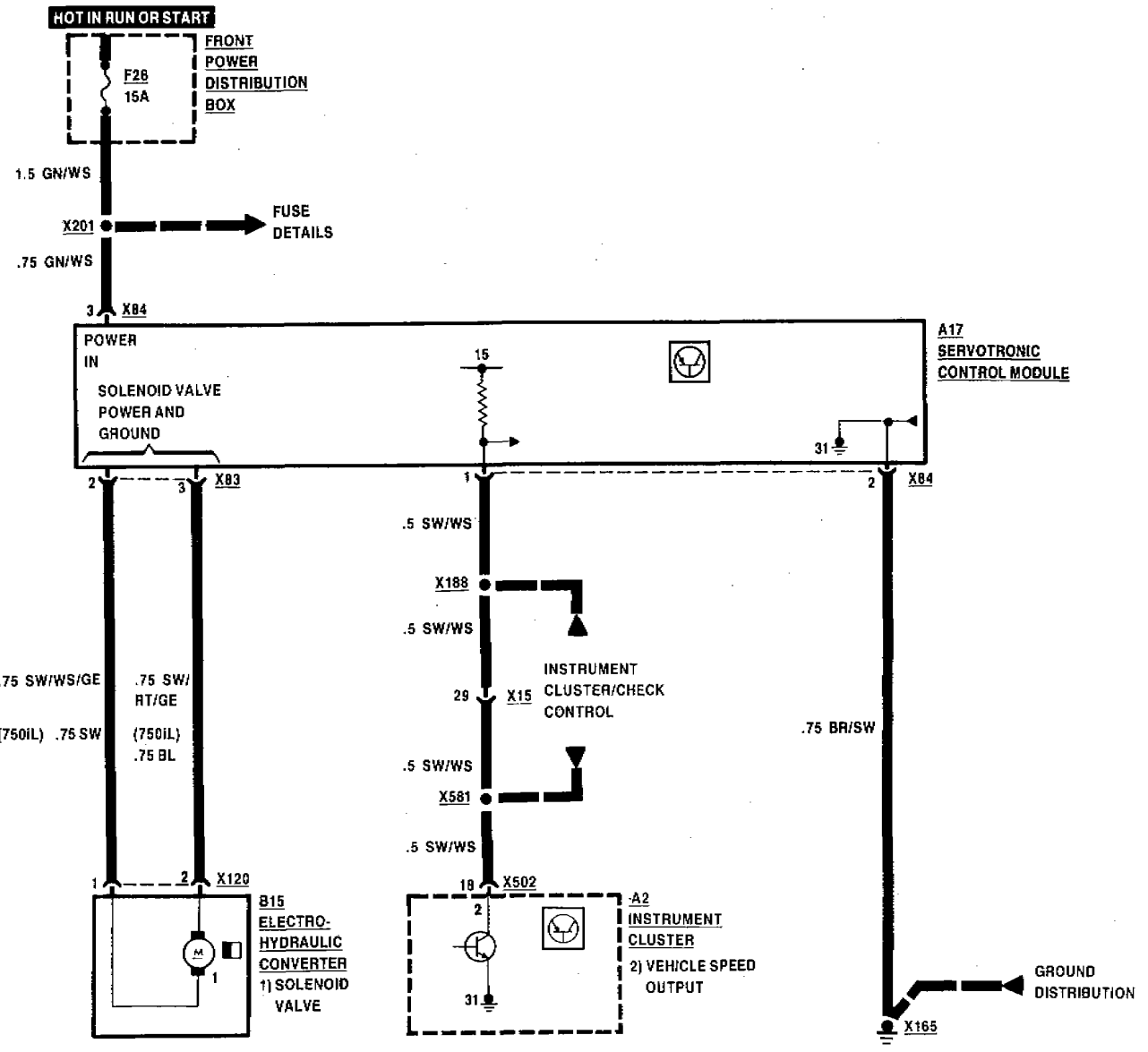


# POWER ASSIST STEERING (SERVOTRONIC)

12/93

3240-00

93/94



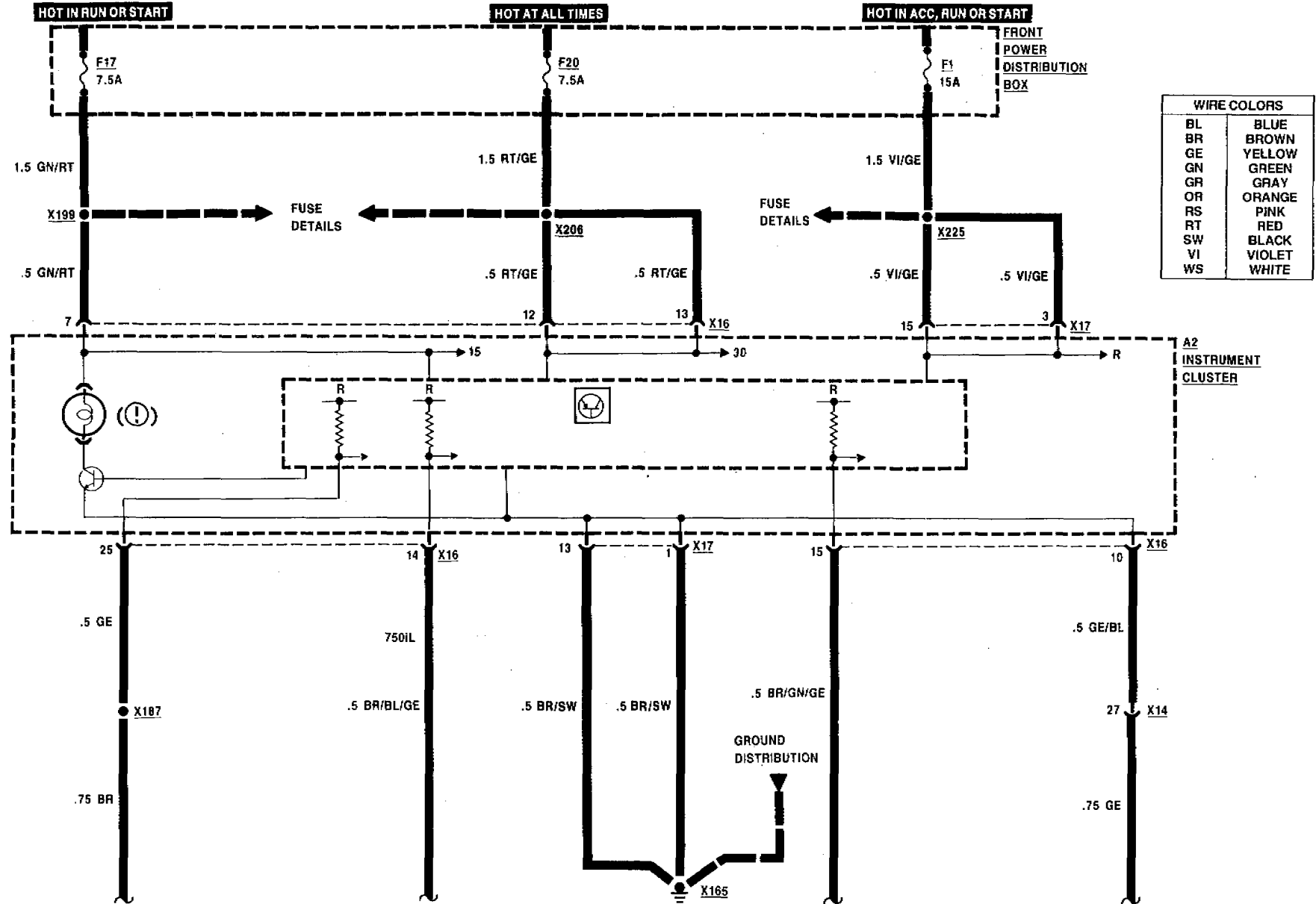
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



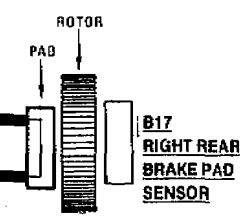
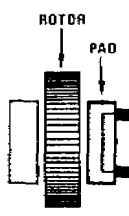
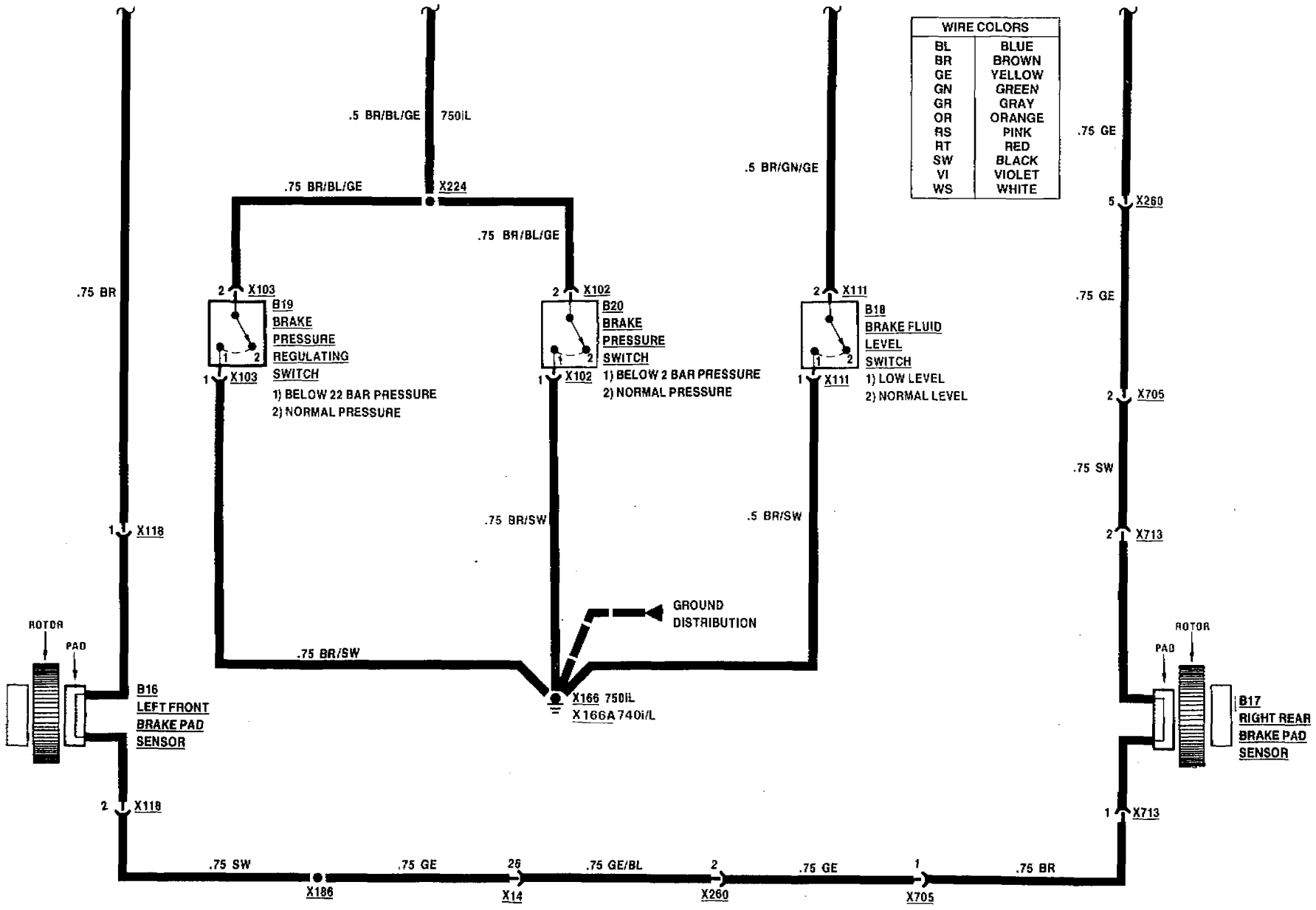


# 7 BRAKE LINING WARNING

## BRAKE WARNING LIGHT



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



**B19**  
BRAKE  
PRESSURE  
REGULATING  
SWITCH  
1) BELOW 22 BAR PRESSURE  
2) NORMAL PRESSURE

**B20**  
BRAKE  
PRESSURE  
SWITCH  
1) BELOW 2 BAR PRESSURE  
2) NORMAL PRESSURE

**B18**  
BRAKE FLUID  
LEVEL  
SWITCH  
1) LOW LEVEL  
2) NORMAL LEVEL

**B16**  
LEFT FRONT  
BRAKE PAD  
SENSOR

**B17**  
RIGHT REAR  
BRAKE PAD  
SENSOR

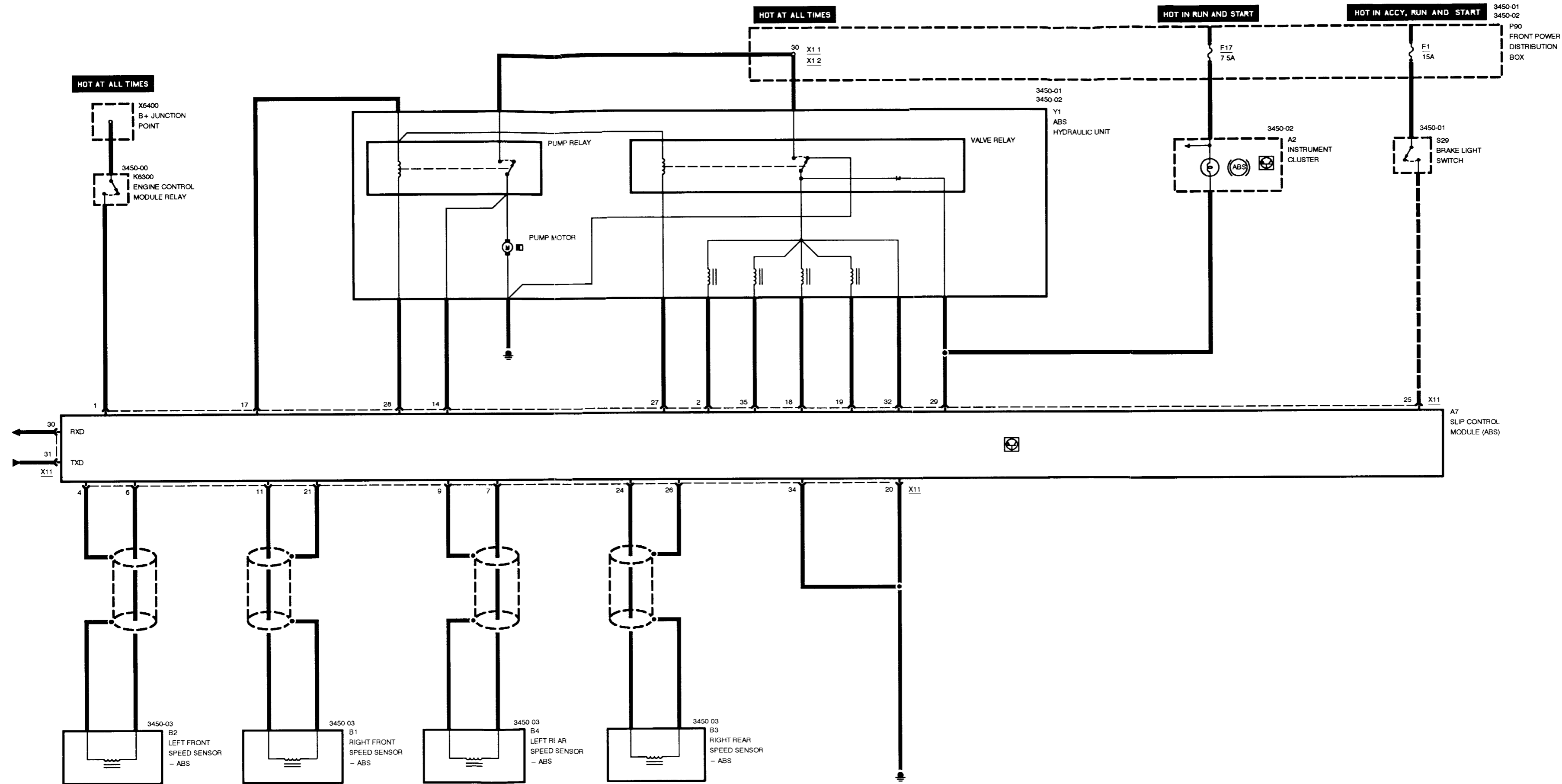
X166 750IL  
X166A 740I/L

GROUND  
DISTRIBUTION



3435-02





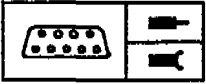


## Pin Assignments

### X11

Pin	Type	Description/Function	Connection
1	E	Plus supply terminal 15	Engine control module relay, K6300
2	A	Signal, solenoid valve left front	ABS hydraulic unit, Y1
3		Not used	
4	E	Ground, sensor shield	Left front ABS speed sensor
5		Not used	
6	E	Signal, speed sensor	Left front ABS speed sensor
7	E	Signal, speed sensor	Left rear ABS speed sensor
8		Not used	
9	E	Ground, sensor shield	Left rear ABS speed sensor
10		Not used	
11	E	Signal, speed sensor	Right front ABS speed sensor
12		Not used	
13		Not used	
14	E	Pump relay input	ABS hydraulic unit, Y1
15		Not used	
16		Not used	
17	A	Pump relay	ABS hydraulic unit, Y1
18	A	Signal, solenoid valve left rear	ABS hydraulic unit, Y1
19	A	Signal, solenoid valve right rear	ABS hydraulic unit, Y1
20	M	Ground	Ground point, X166 B
21	E	Ground, sensor shield	Right front ABS speed sensor
22		Not used	
23		Not used	
24	E	Signal, speed sensor	Right rear ABS speed sensor
25	E	Signal, brake pedal	Brake light switch
26	E	Ground, sensor shield	Right rear ABS speed sensor
27	A	Ground, valve relay	ABS hydraulic unit, Y1
28	A	Ground, pump relay	ABS hydraulic unit, Y1
29	E	Ground, display	Instrument cluster, A2 ABS hydraulic unit, Y1

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
30	A	Diagnosis	Data link connector, RxD
31	E/A	Diagnosis	Data link connector, TxD
32	E	Display valve relay	ABS hydraulic unit, Y1
33		Not used	
34	M	Ground	Ground point, X166 B
35	A	Signal, solenoid valve right front	ABS hydraulic unit, Y1

E = Input, A = Output, M = Ground





# SLIP CONTROL (ABS)

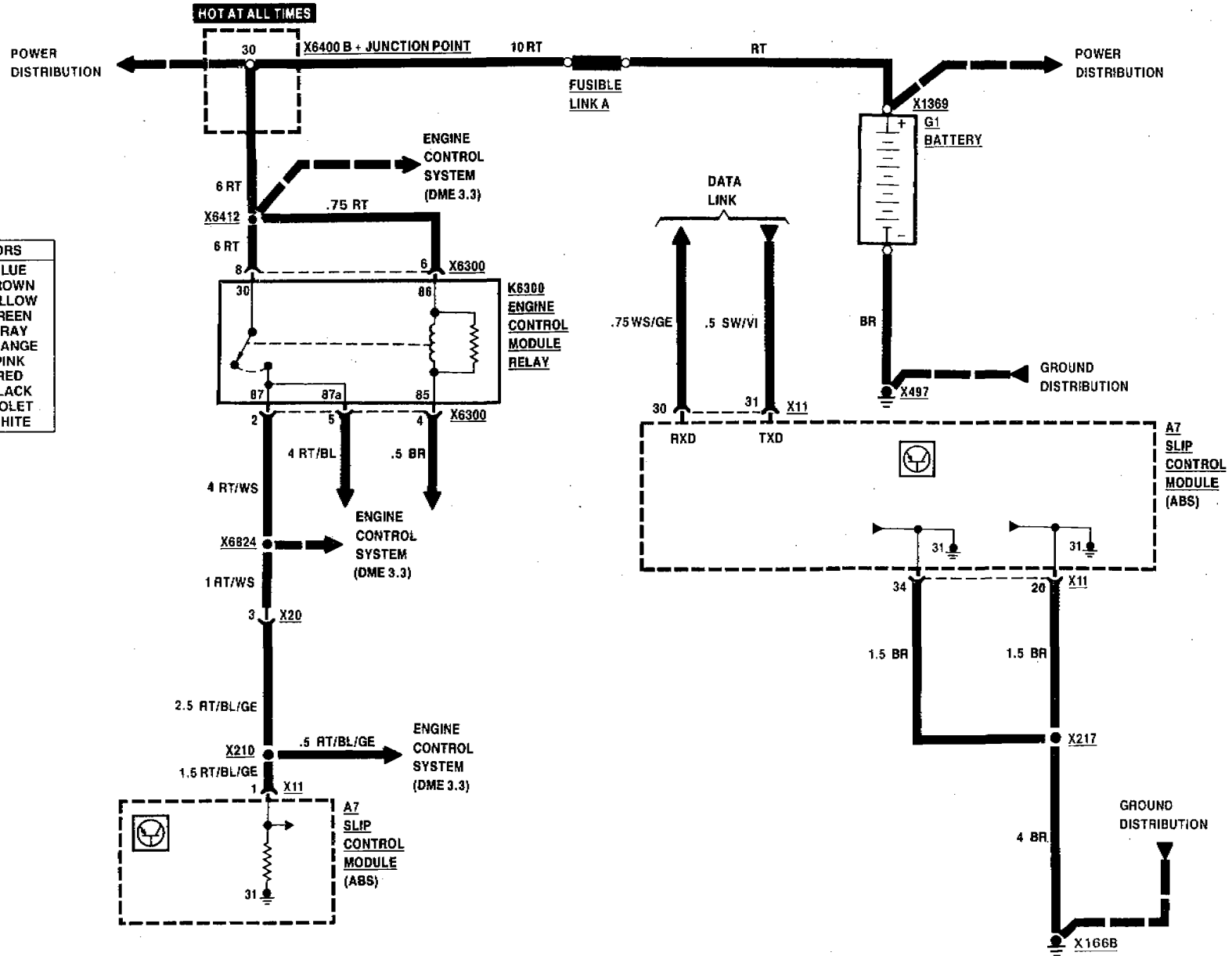
740i/L

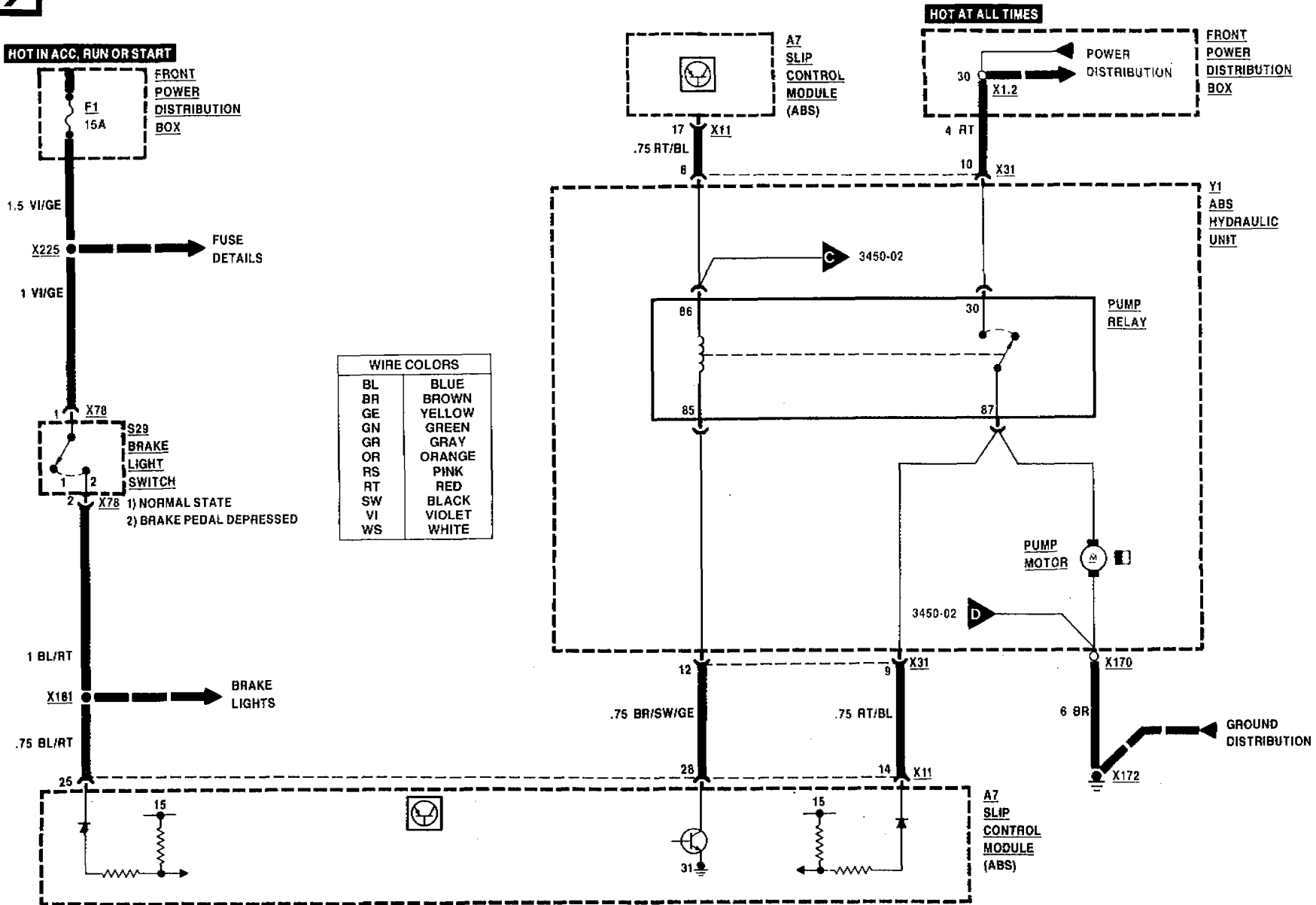
12/93

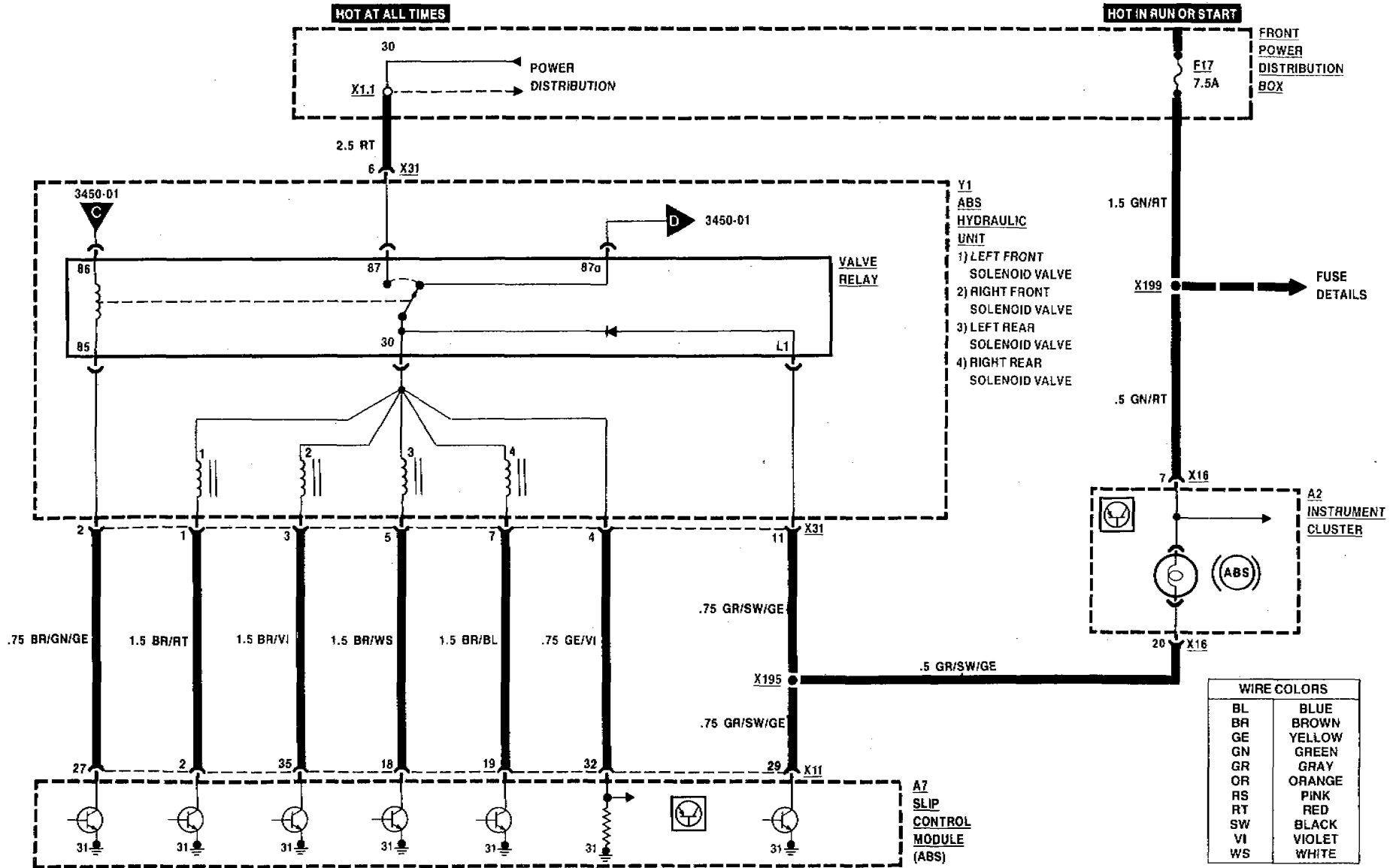
3450-00

93/94

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









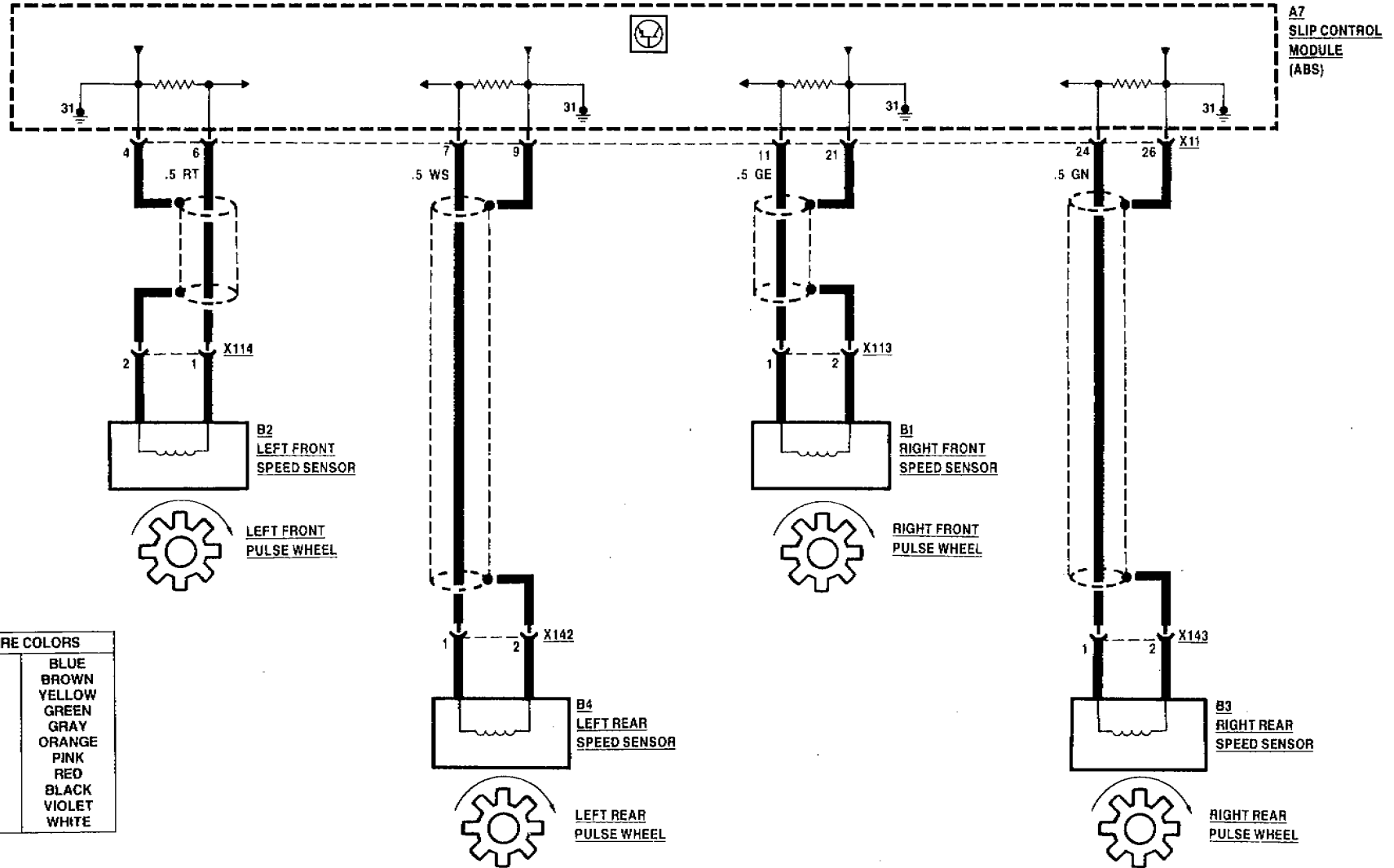
# SLIP CONTROL (ABS)

740i/L

12/93

3450-03

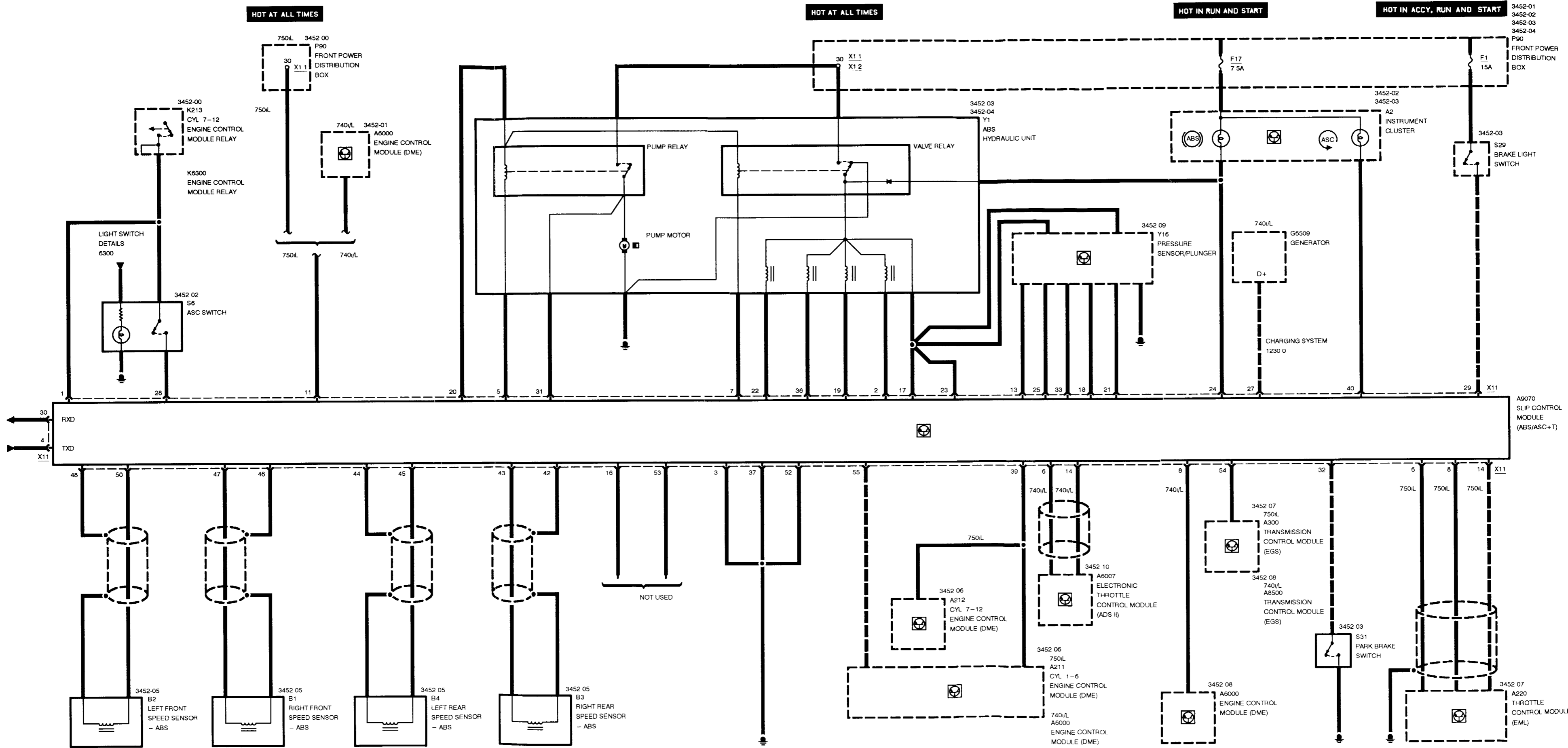
93/94



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

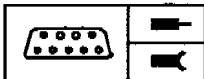






3452-01  
3452-02  
3452-03  
3452-04  
P90  
FRONT POWER  
DISTRIBUTION  
BOX

A9070  
SLIP CONTROL  
MODULE  
(ABS/ASC+T)



## Pin Assignments

### X11

Pin	Type	Description/Function	Connection
1	E	Plus supply terminal 15	Engine control module relay, K6300 (740i), K213 (750iL)
2	A	Signal, solenoid valve left rear	ABS hydraulic unit, Y1
3	M	Ground, control unit	Ground point, X166 B (740i), X167 (750iL)
4	E/A	Diagnosis	Data link connector, TxD
5	A	Signal, pump motor relay	ABS hydraulic unit, Y1
6	A	Throttle reduction	Electronic throttle control module, A6007 (740i), A220 (750iL)
7	A	Signal, valve relay	ABS hydraulic unit, Y1
8	A	Throttle valve increase	Engine control module (DME), A6000 (740i), Electronic throttle control module, A220 (750iL)
9		Not used	
10		Not used	
11	E	Plus supply, terminal 30	Engine control module (DME), A6000 (740i), Front power distribution box (750iL)
12		Not used	
13	E	Operating pressure signal	Pressure sensor/plunger, Y16
14	E	Set throttle value	Electronic throttle control module, A6007 (740i), A220 (750iL)
15		Not used	
16		Not used	
17	E	Voltage from valve relay	ABS hydraulic unit, Y1
18	A	Signal, solenoid valve right rear	Pressure sensor/plunger, Y16
19	A	Signal, solenoid valve left front	ABS hydraulic unit, Y1
20	A	Voltage signal motor relay	ABS hydraulic unit, Y1
21	A	Signal, solenoid valve left rear	Pressure sensor/plunger, Y16
22	A	Signal, solenoid valve right front	ABS hydraulic unit, Y1
23	E	Voltage signal solenoid valves	Pressure sensor/plunger, Y16
24	E	Signal ABS—sila	Instrument cluster, A2
25	E	Accumulator warning threshold	Pressure sensor/plunger, Y16
26		Not used	

E = Input, A = Output, M = Ground

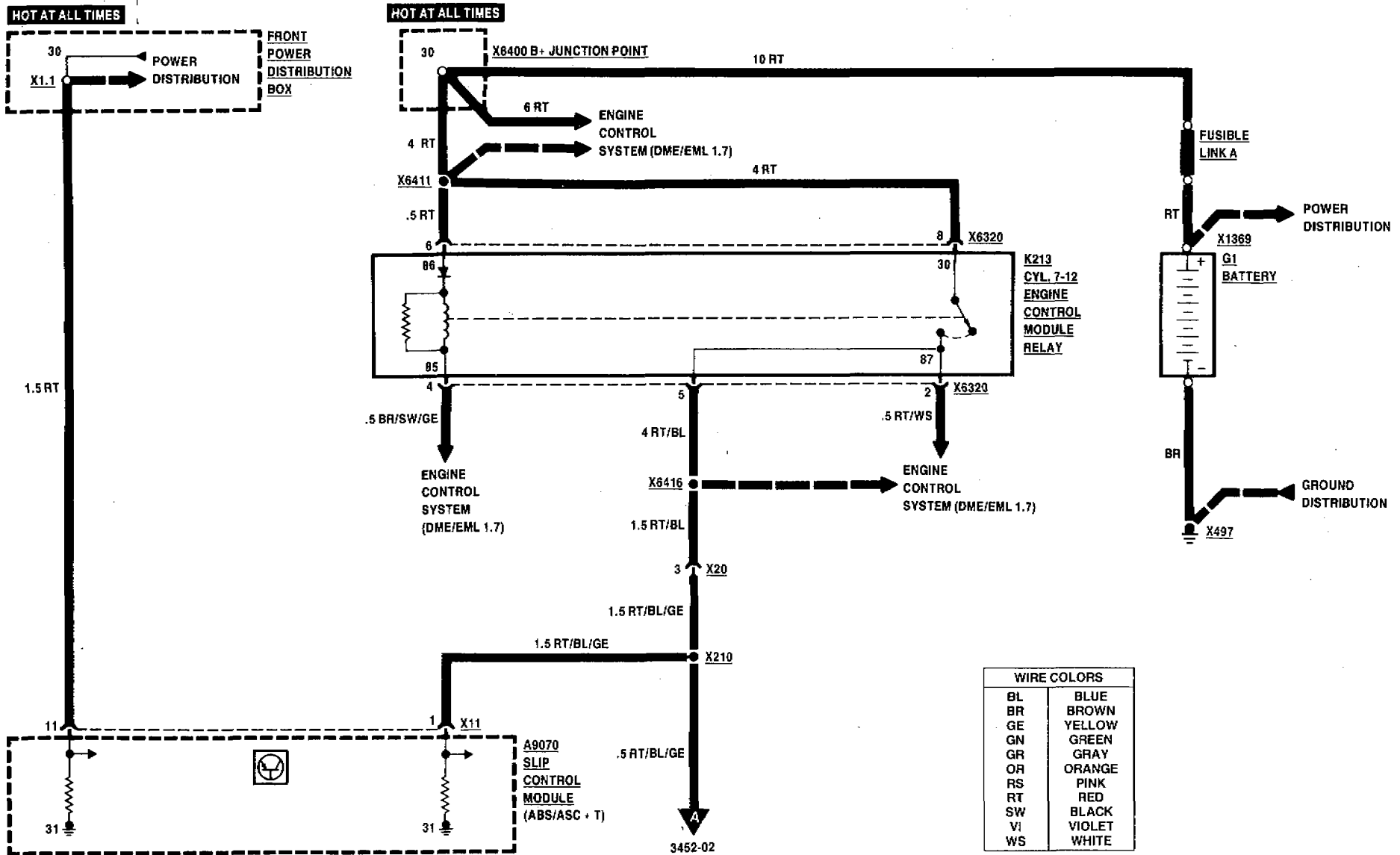


## Pin Assignments

Pin	Type	Description/Function	Connection
27	E	D+ (terminal 61d)	Generator
28	E	ASC-Signal	ASC-switch, S6
29	E	Brake light signal	Brake light switch, S29
30	A	Diagnosis	Data link connector, RxD
31	E	Motor relay signal	ABS hydraulic unit, Y1
32	E	Handbrake signal	Park brake switch, S31
33	A	Accumulator charging valve activation	Pressure sensor/plunger, Y16
34		Not used	
35		Not used	
36	A	Signal, solenoid valve right rear	ABS hydraulic unit, Y1
37	M	Ground	Ground point, X166 B (740i), X167 (750iL)
38		Not used	
39	A	Ignition angle adjustment	Engine control module (DME)
40	A	ASC multi-function lamp	Instrument cluster, A2
41		Not used	
42	A	Ground, sensor shield	Right rear ABS speed sensor, B3
43	E	Signal, wheel speed	Right rear ABS speed sensor, B3
44	A	Ground, sensor shield	Left rear ABS speed sensor, B4
45	E	Signal, wheel speed	Left rear ABS speed sensor, B4
46	A	Ground, sensor shield	Right front ABS speed sensor, B1
47	E	Signal, wheel speed	Right front ABS speed sensor, B1
48	A	Ground, sensor shield	Left front ABS speed sensor, B2
49		Not used	
50	E	Signal, wheel speed	Left front ABS speed sensor, B2
51		Not used	
52	M	Ground	Ground point, X166 B (740i), X167 (750iL)
53		Not used	
54	A	Signal transmission intervention	Transmission control module
55	E	Engine speed signal	Engine control module

E = Input, A = Output, M = Ground

BMW  
7





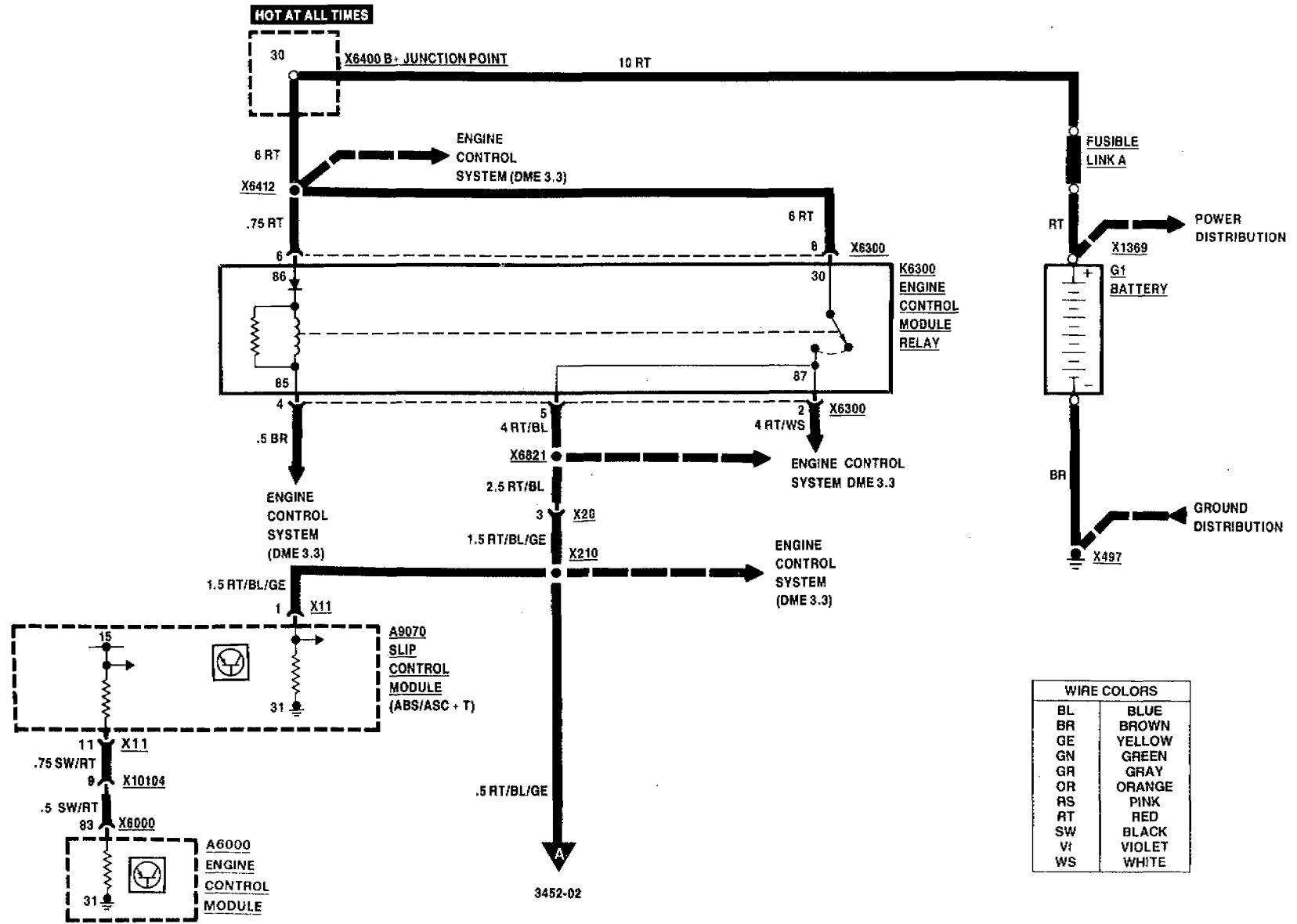
# SLIP CONTROL (ABS/ASC + T)

740i/L

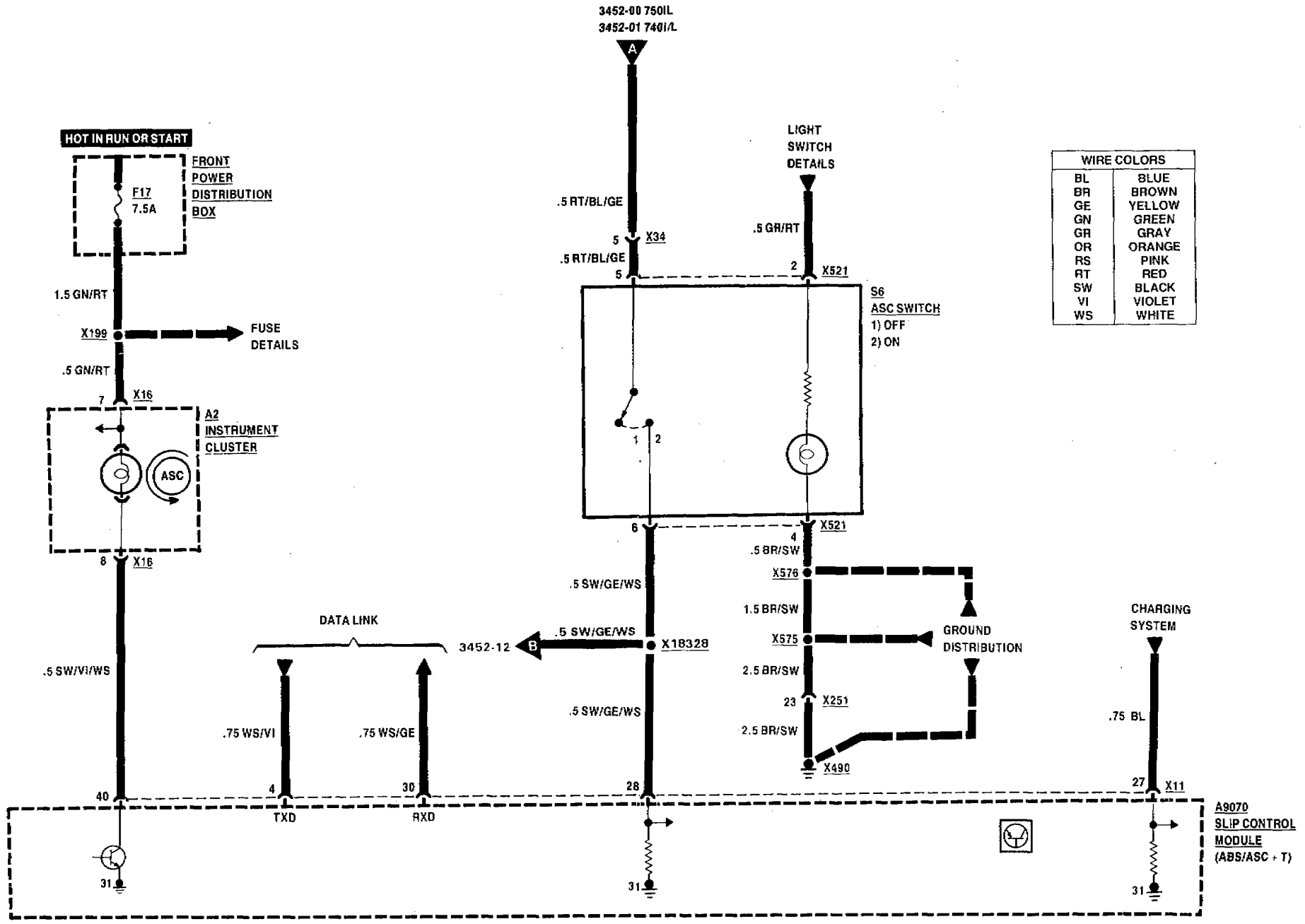
12/93

3452-01

93/94



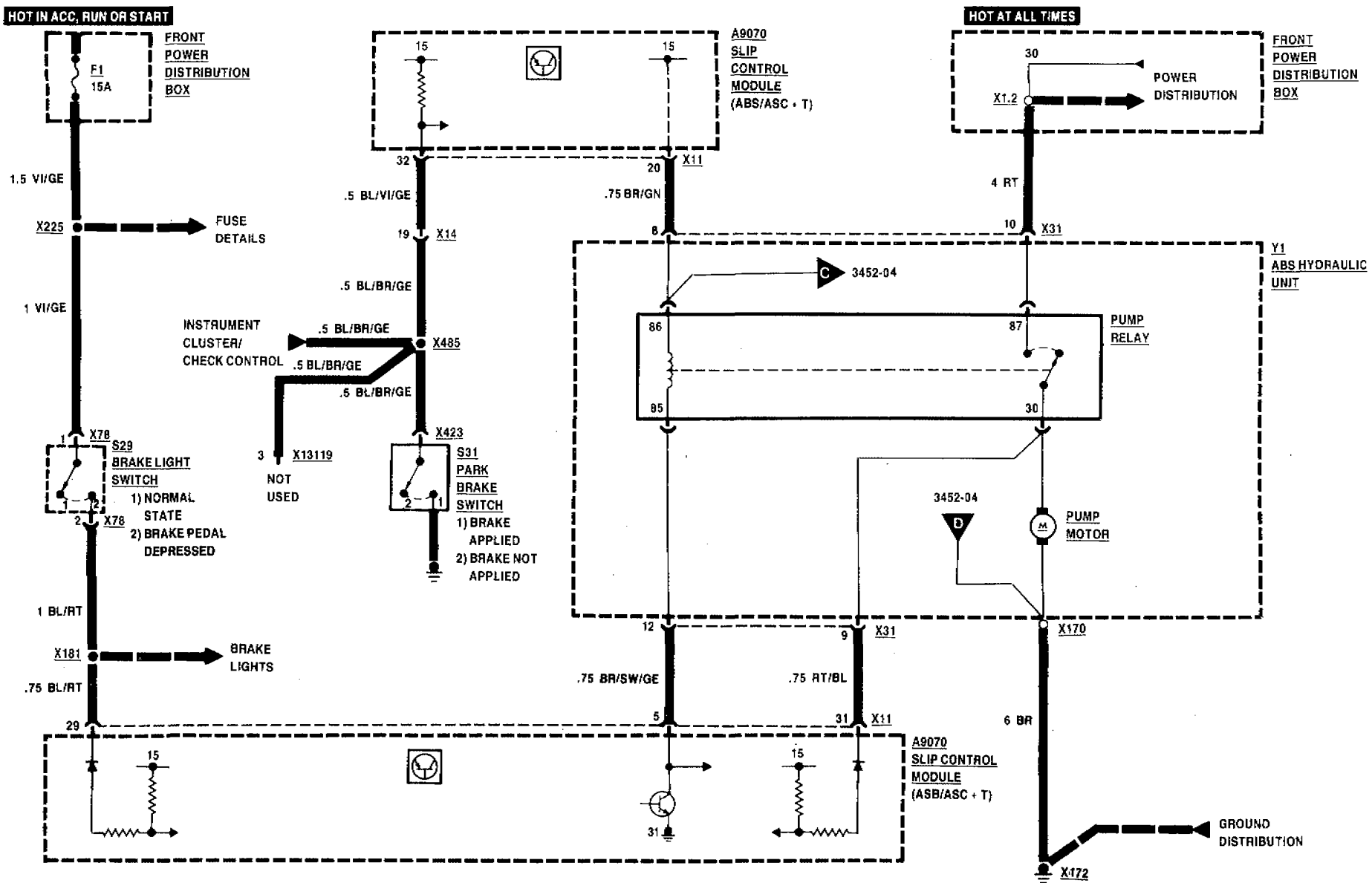
# SLIP CONTROL (ABS/ASC + T)







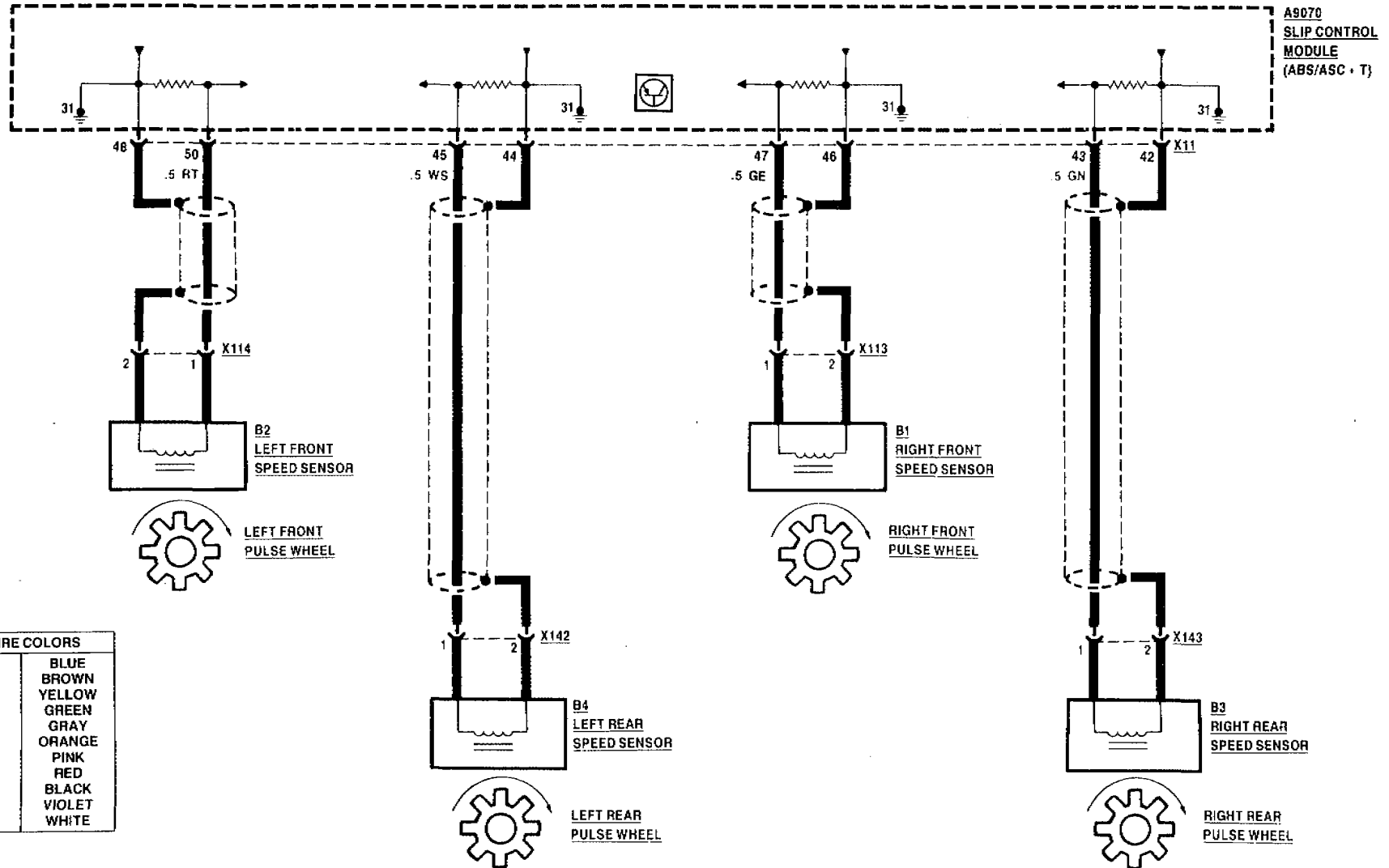
# SLIP CONTROL (ABS/ASC + T)







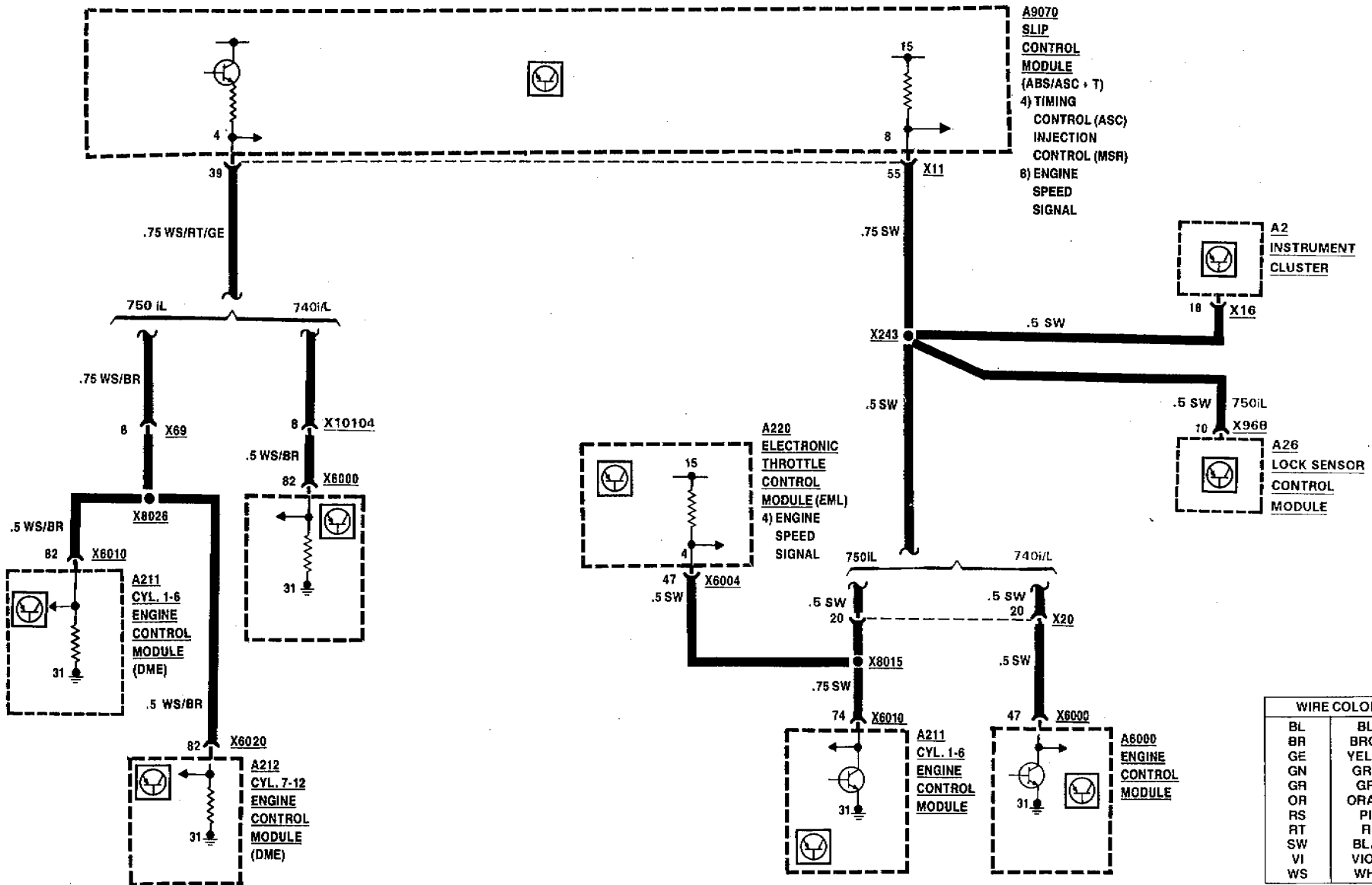
# SLIP CONTROL (ABS/ASC + T)





# SLIP CONTROL (ABS/ASC + T)

## DME INTERFACE



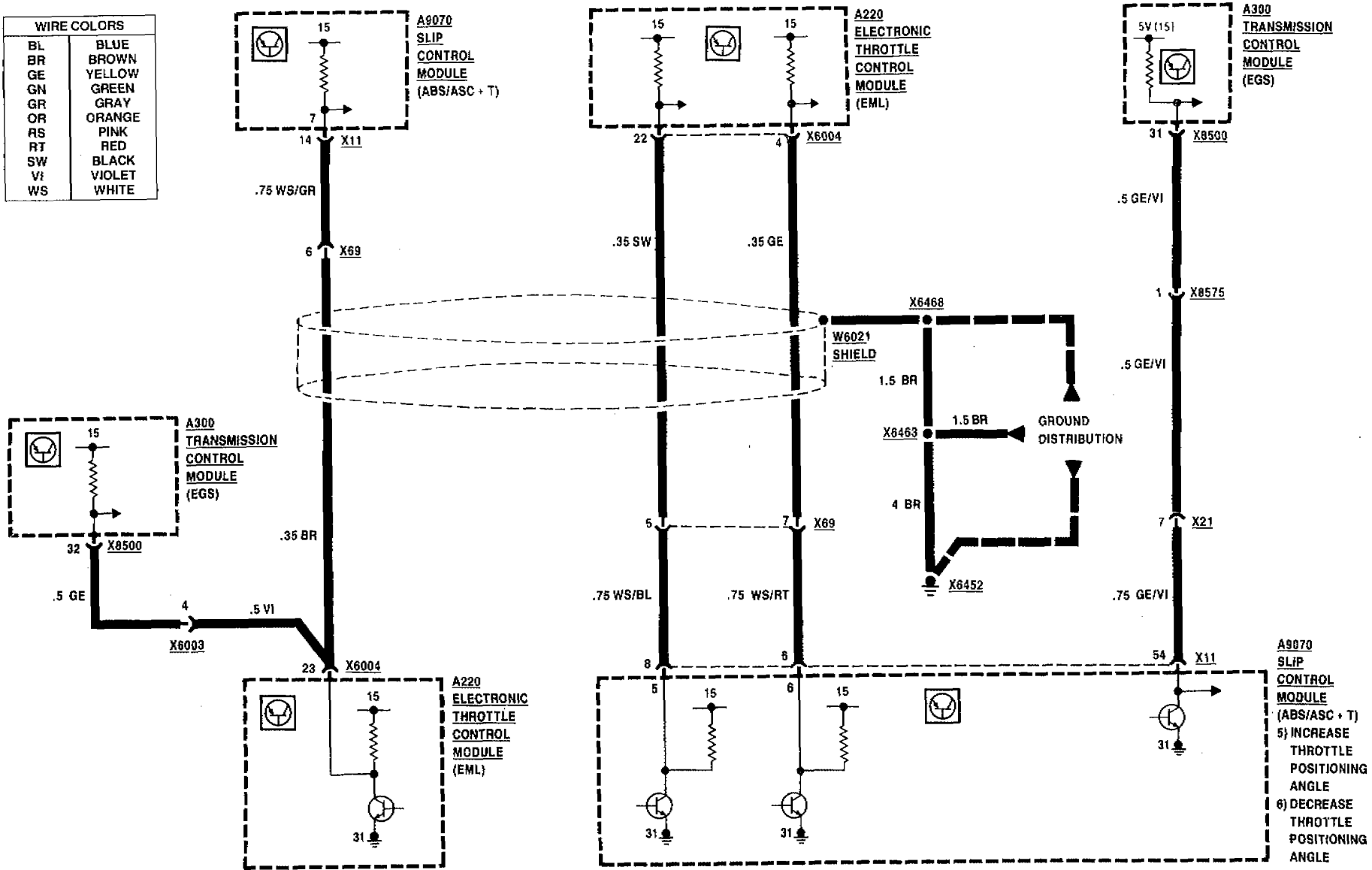


# SLIP CONTROL (ABS/ASC + T)

## EML INTERFACE

750iL

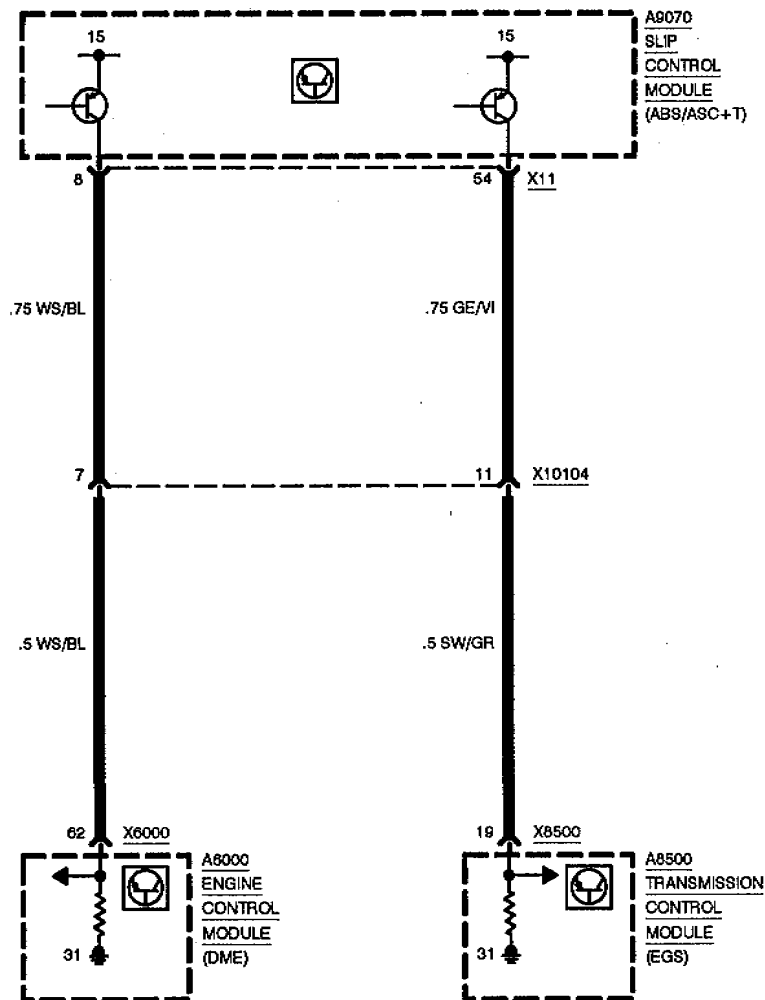
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



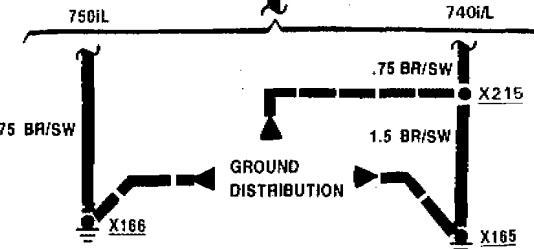
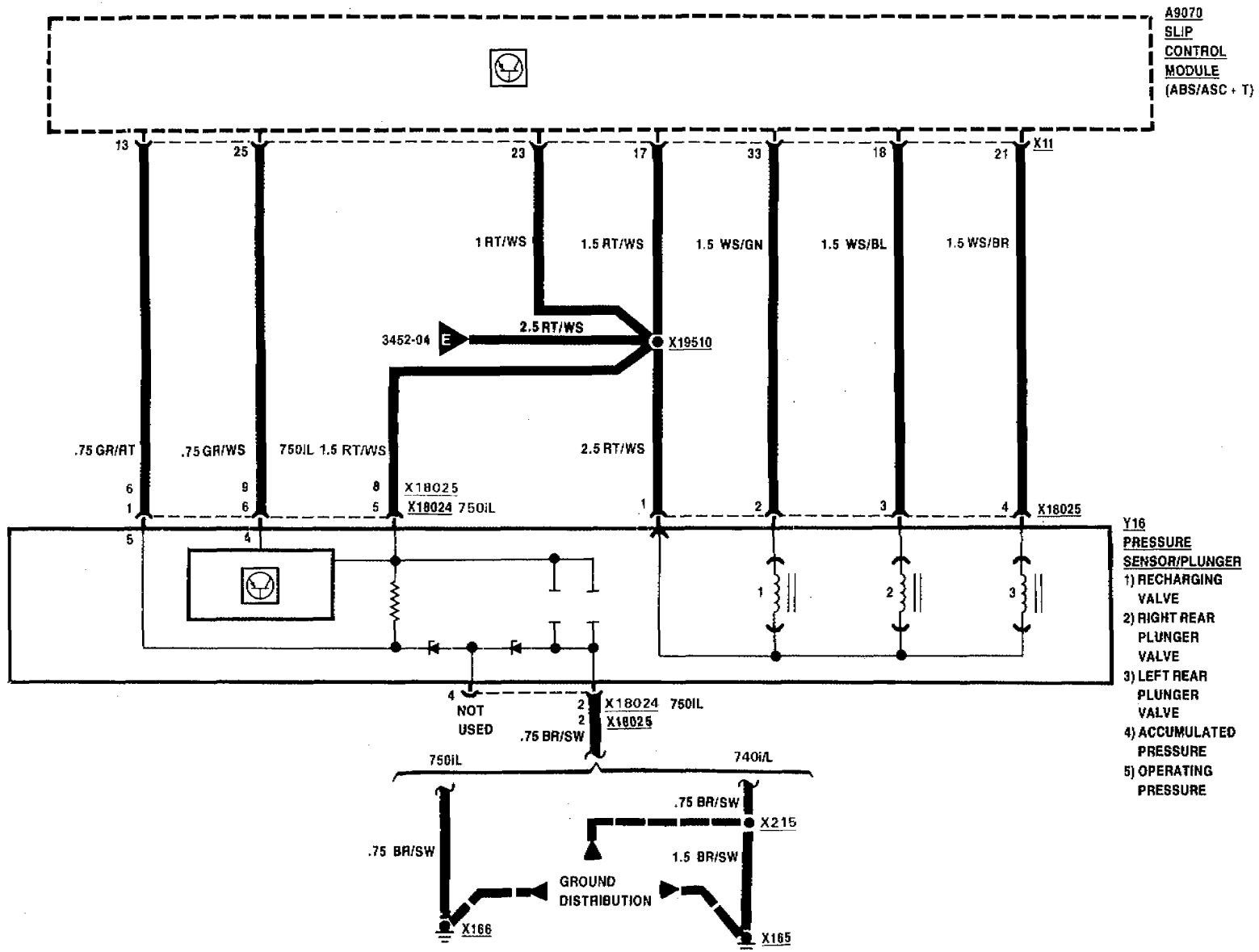


# SLIP CONTROL (ABS/ASC+T)

740i/L



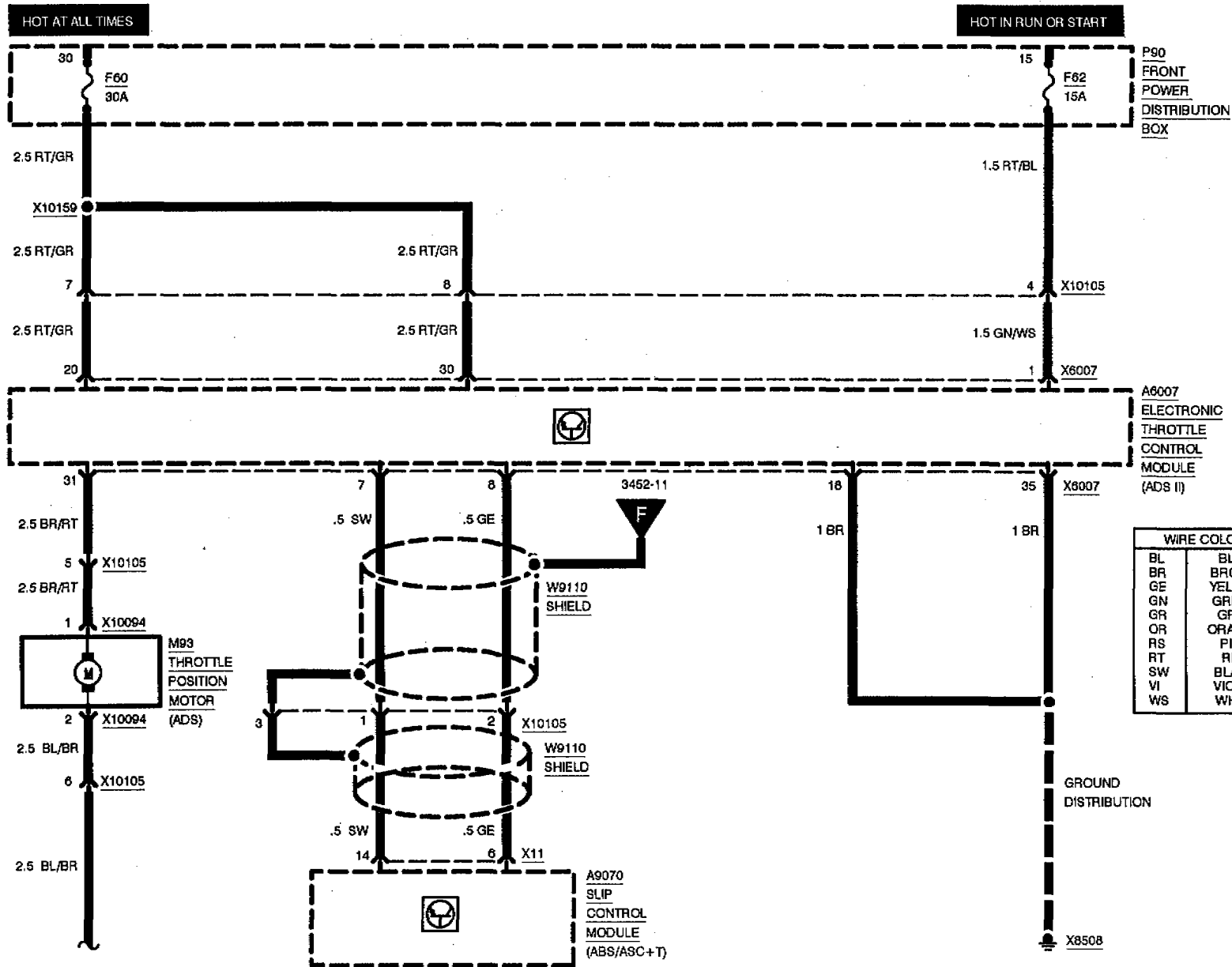
# SLIP CONTROL (ABS/ASC + T)





# SLIP CONTROL (ABS/ASC+T)

740i/L

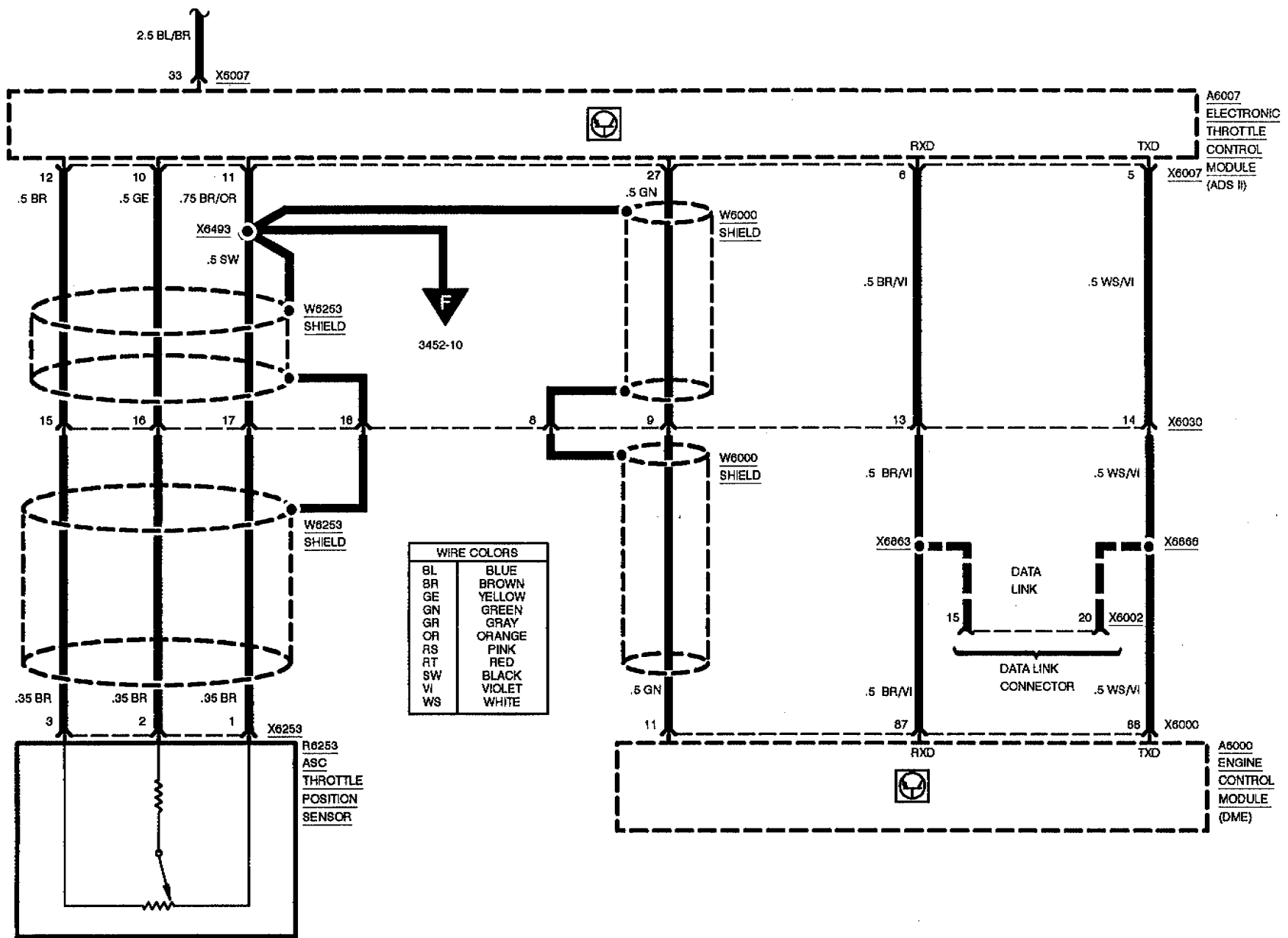


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3452-10

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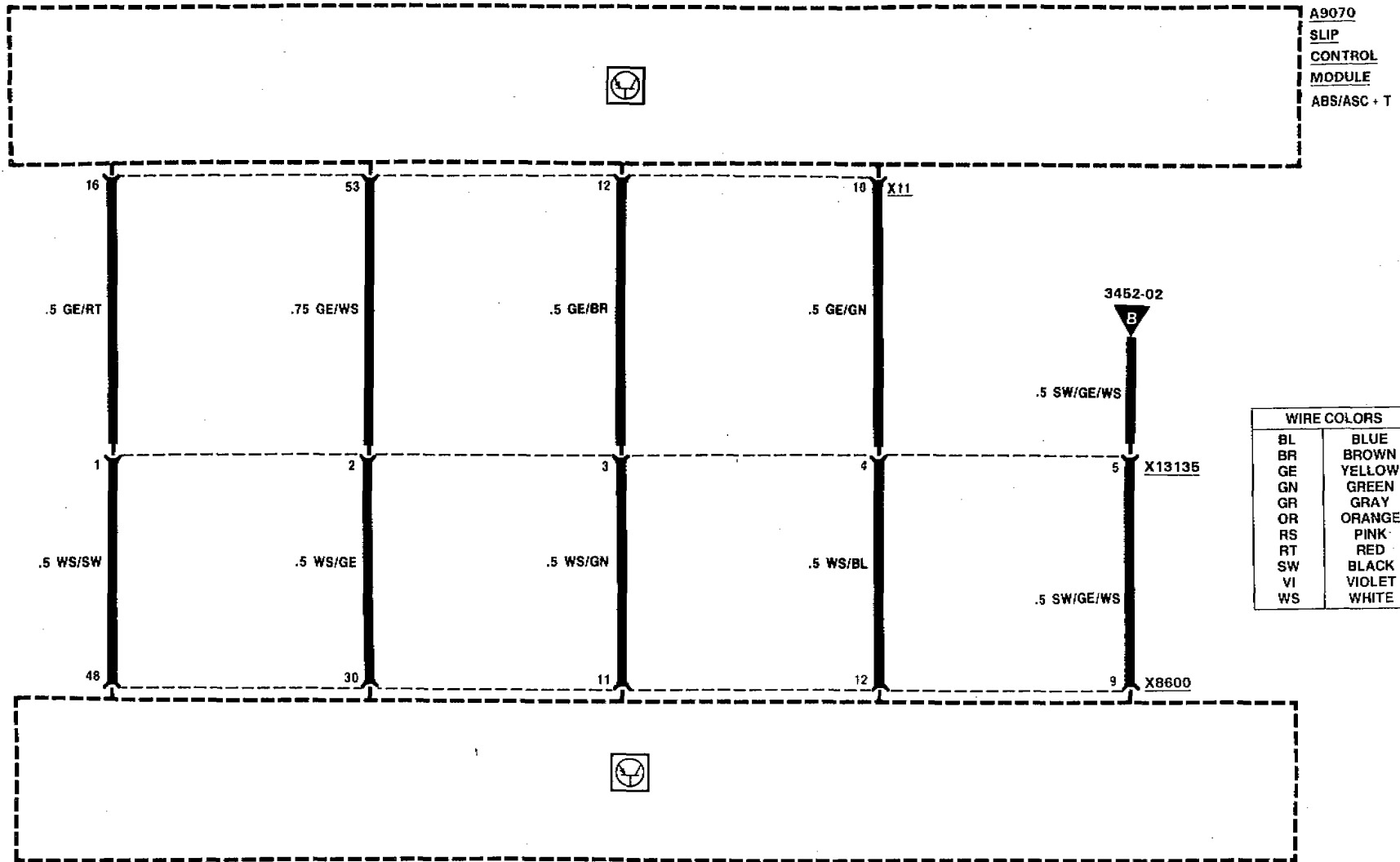






# SLIP CONTROL (ABS/ASC + T) WITH AGS

750iL



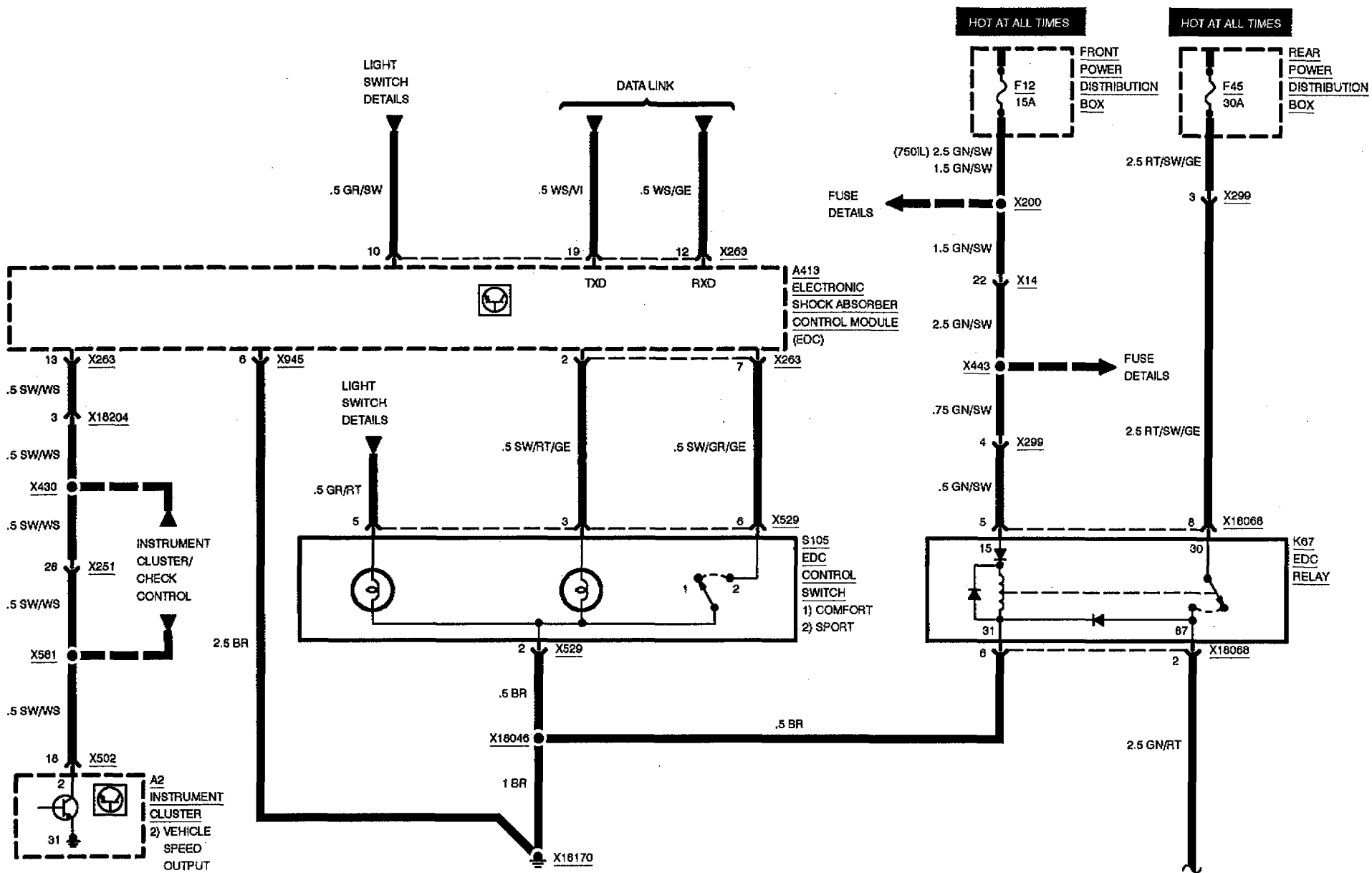
A9070  
SLIP  
CONTROL  
MODULE  
ABS/ASC + T

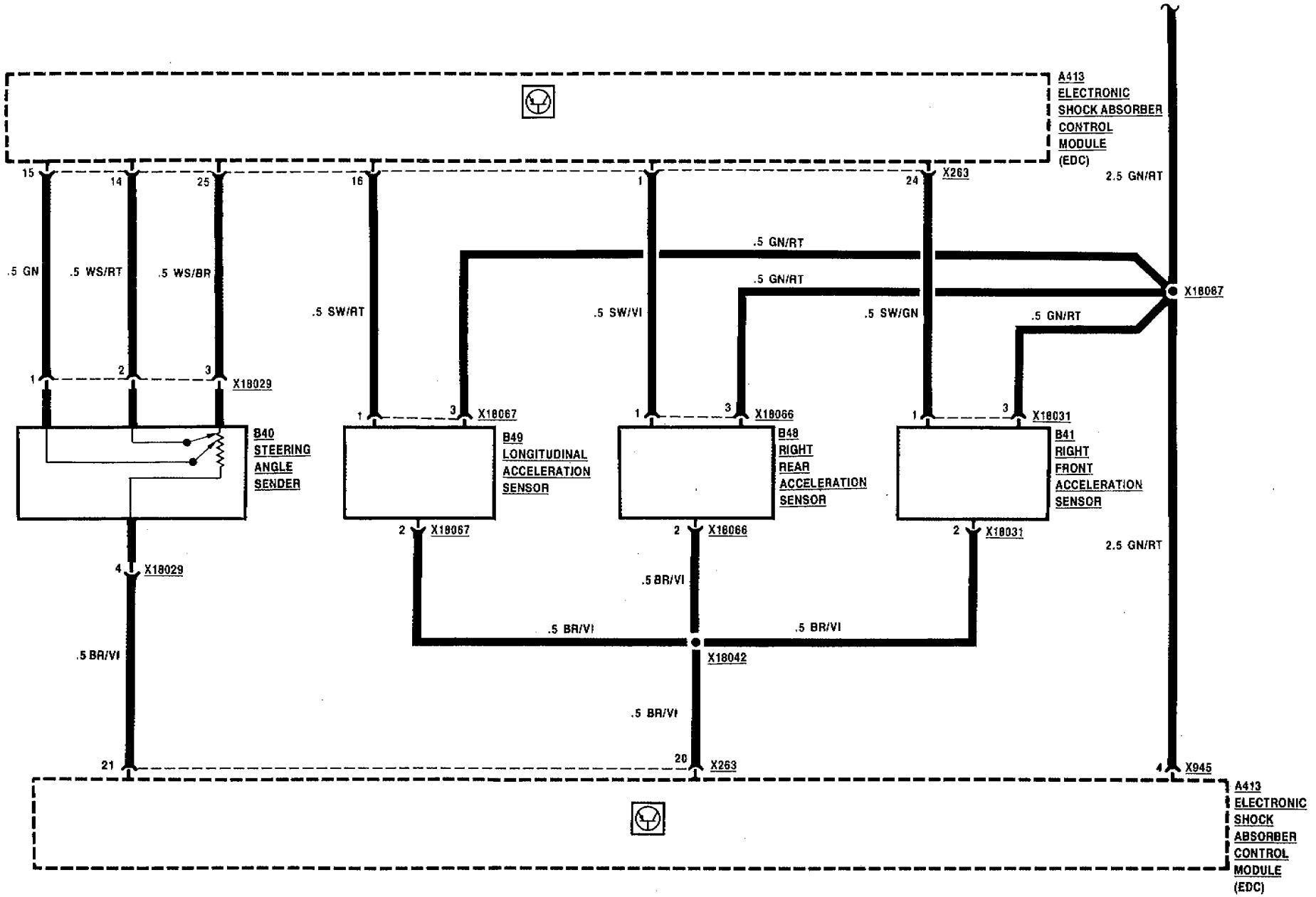
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# SHOCK ABSORBER CONTROL (EDC III+)



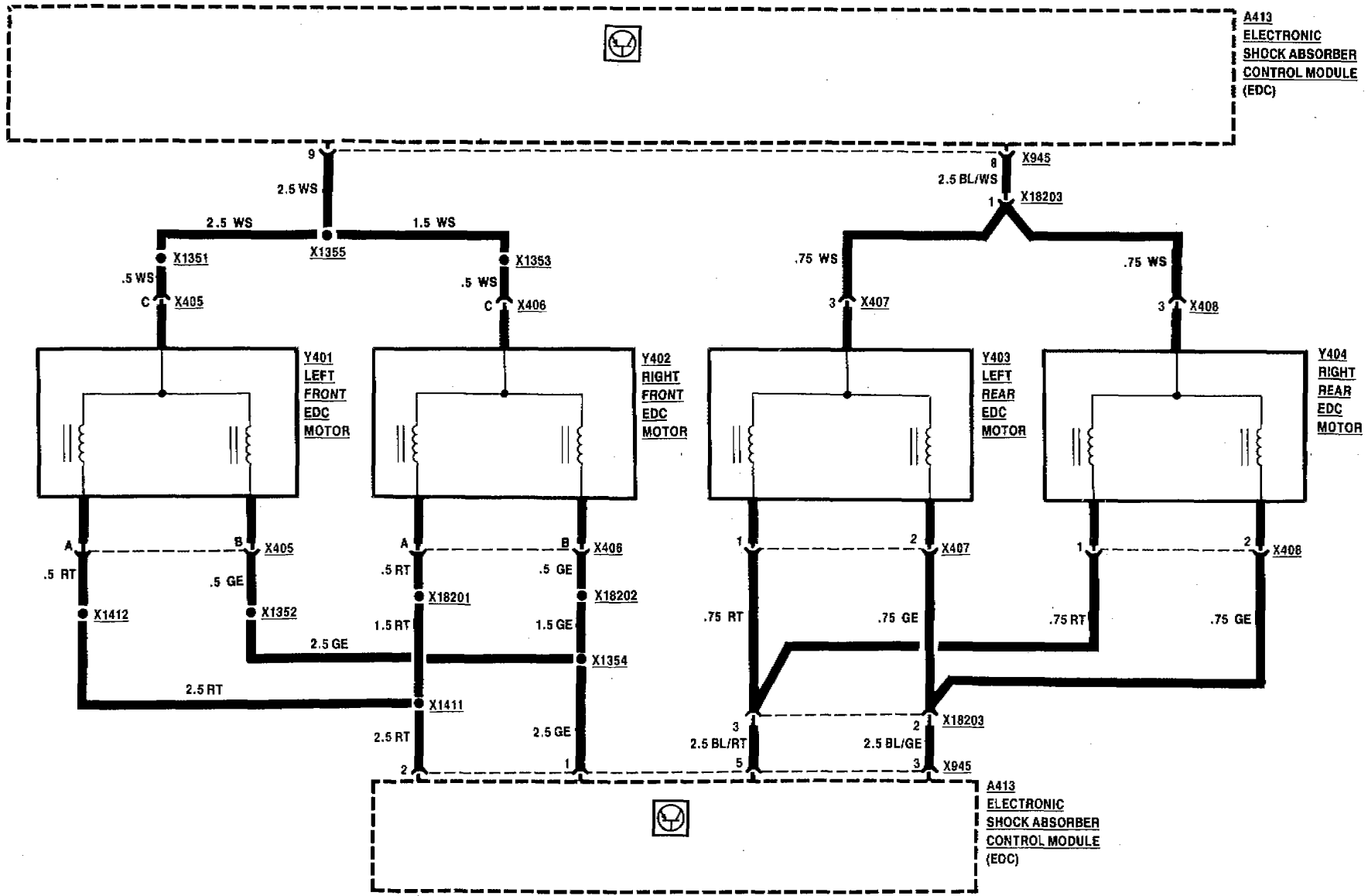


# SHOCK ABSORBER CONTROL (EDC III+)

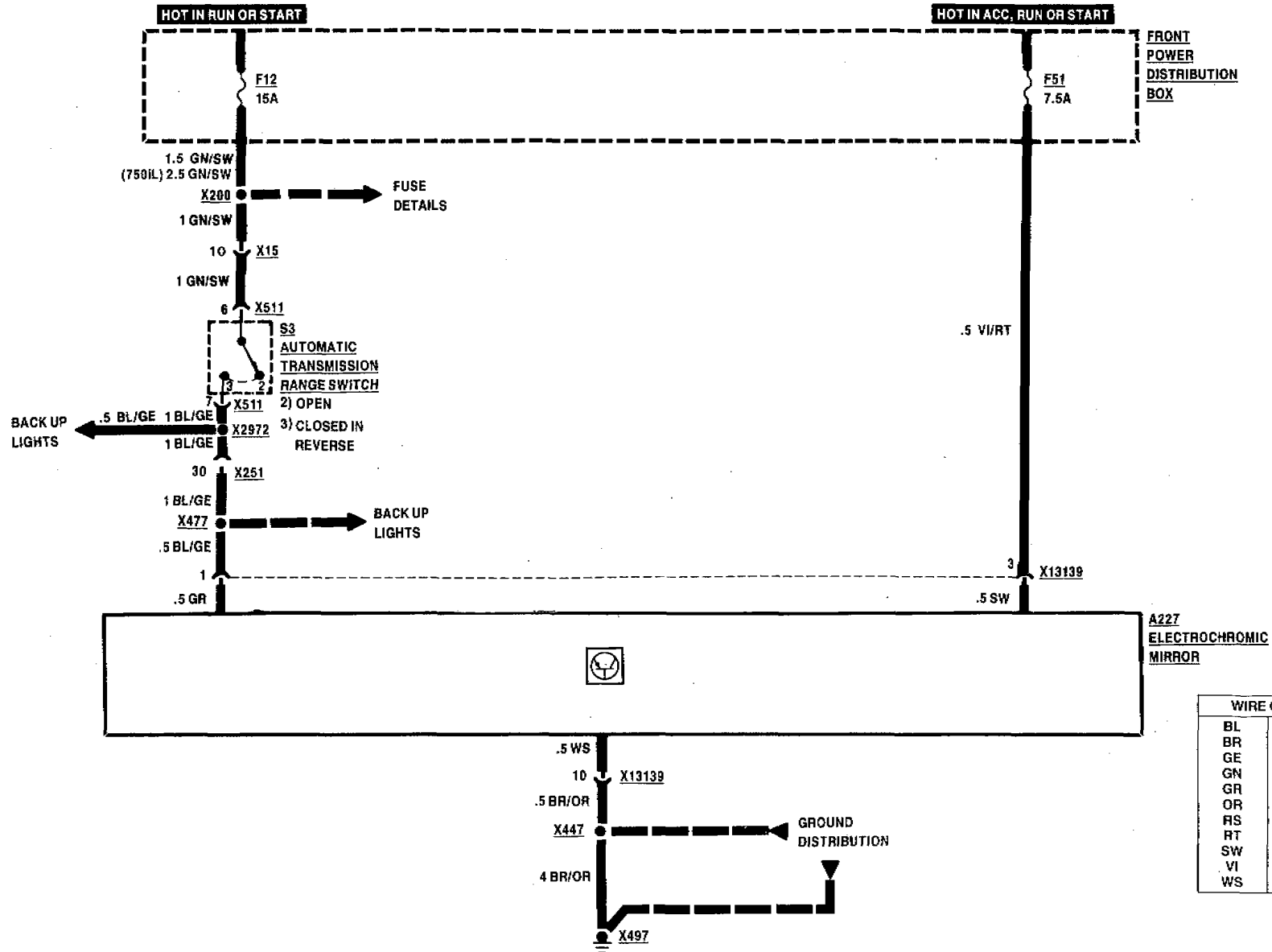
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3715-02

93/94



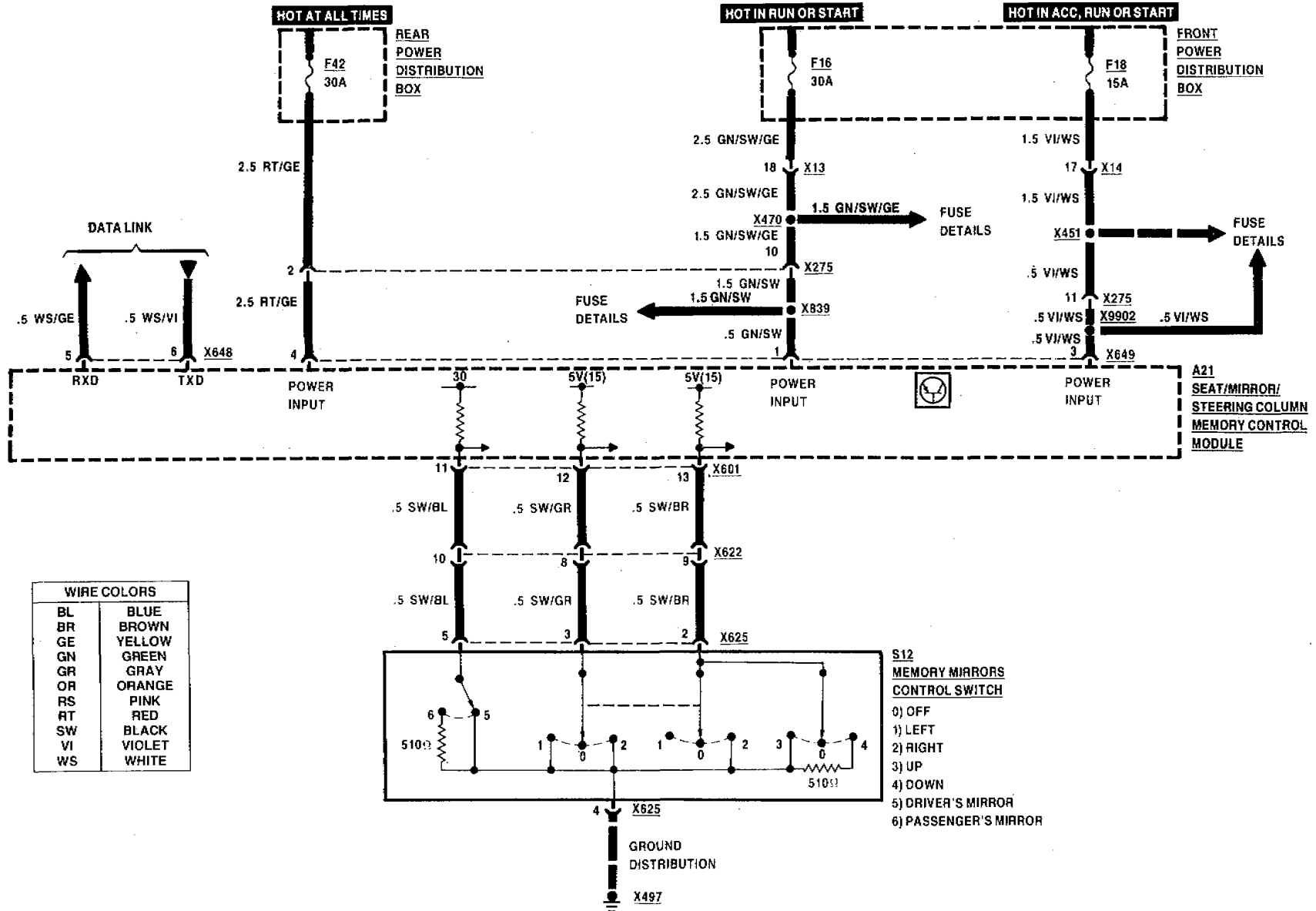




WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



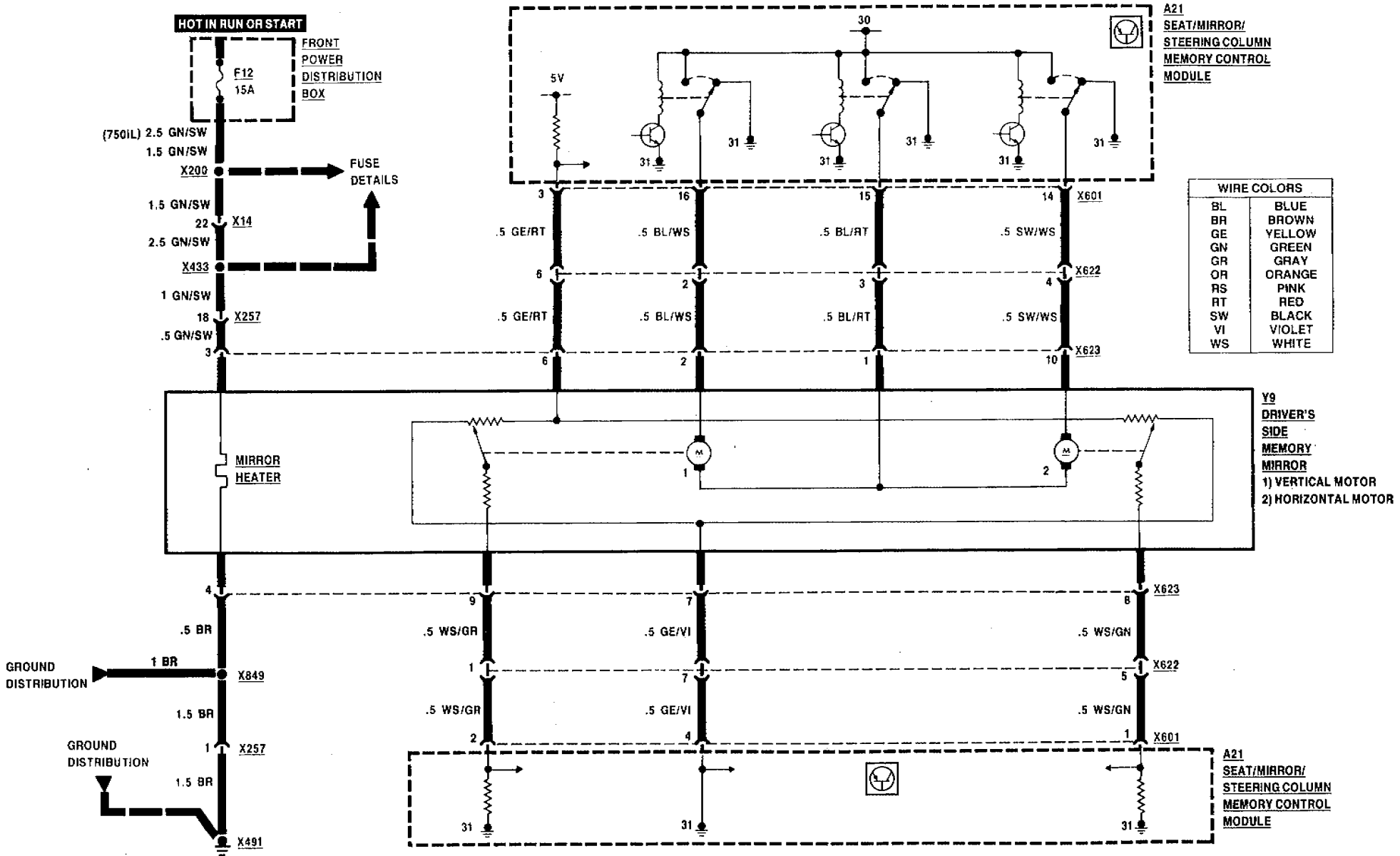




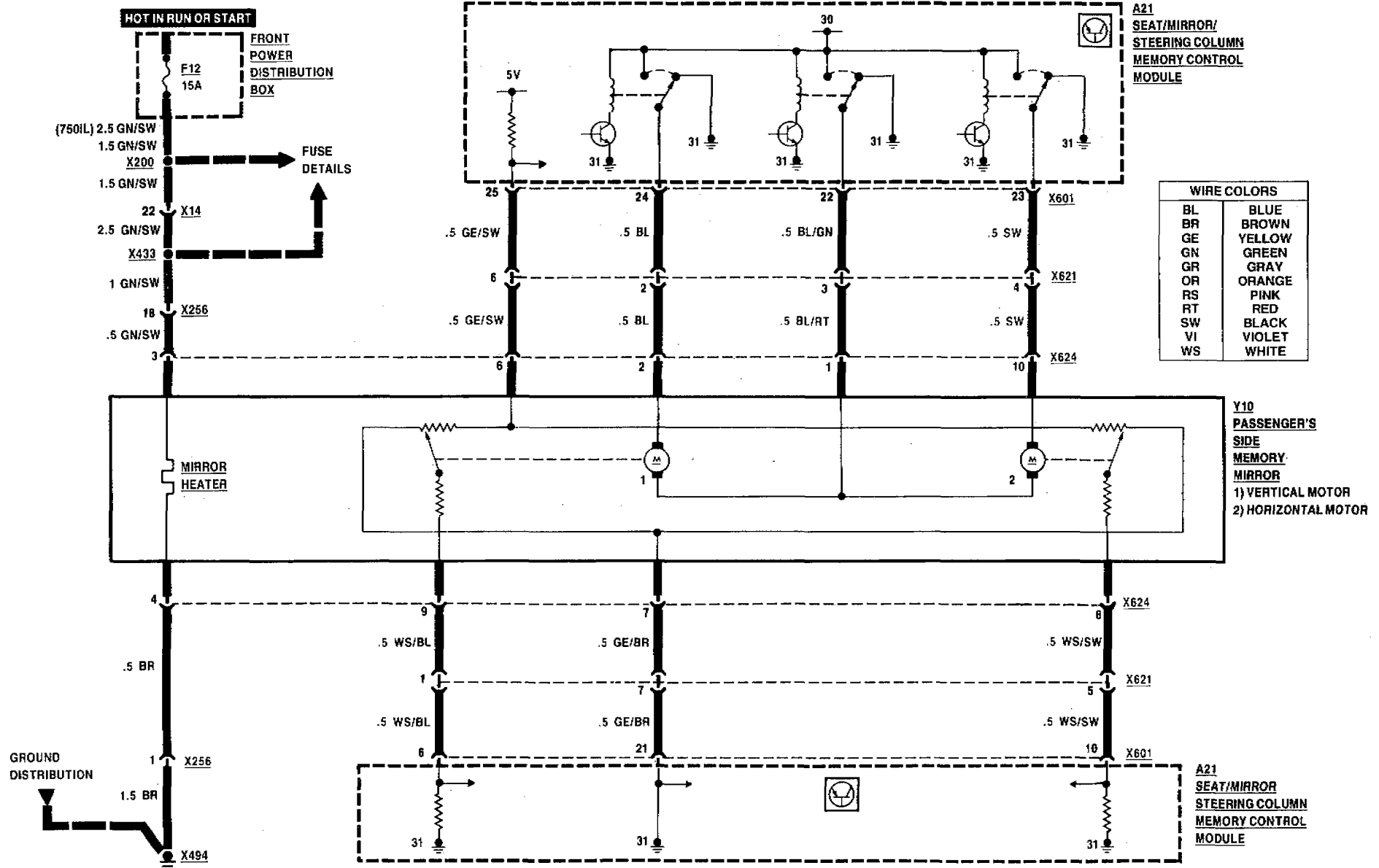
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

- S12  
 MEMORY MIRRORS  
 CONTROL SWITCH
- 0) OFF
  - 1) LEFT
  - 2) RIGHT
  - 3) UP
  - 4) DOWN
  - 5) DRIVER'S MIRROR
  - 6) PASSENGER'S MIRROR

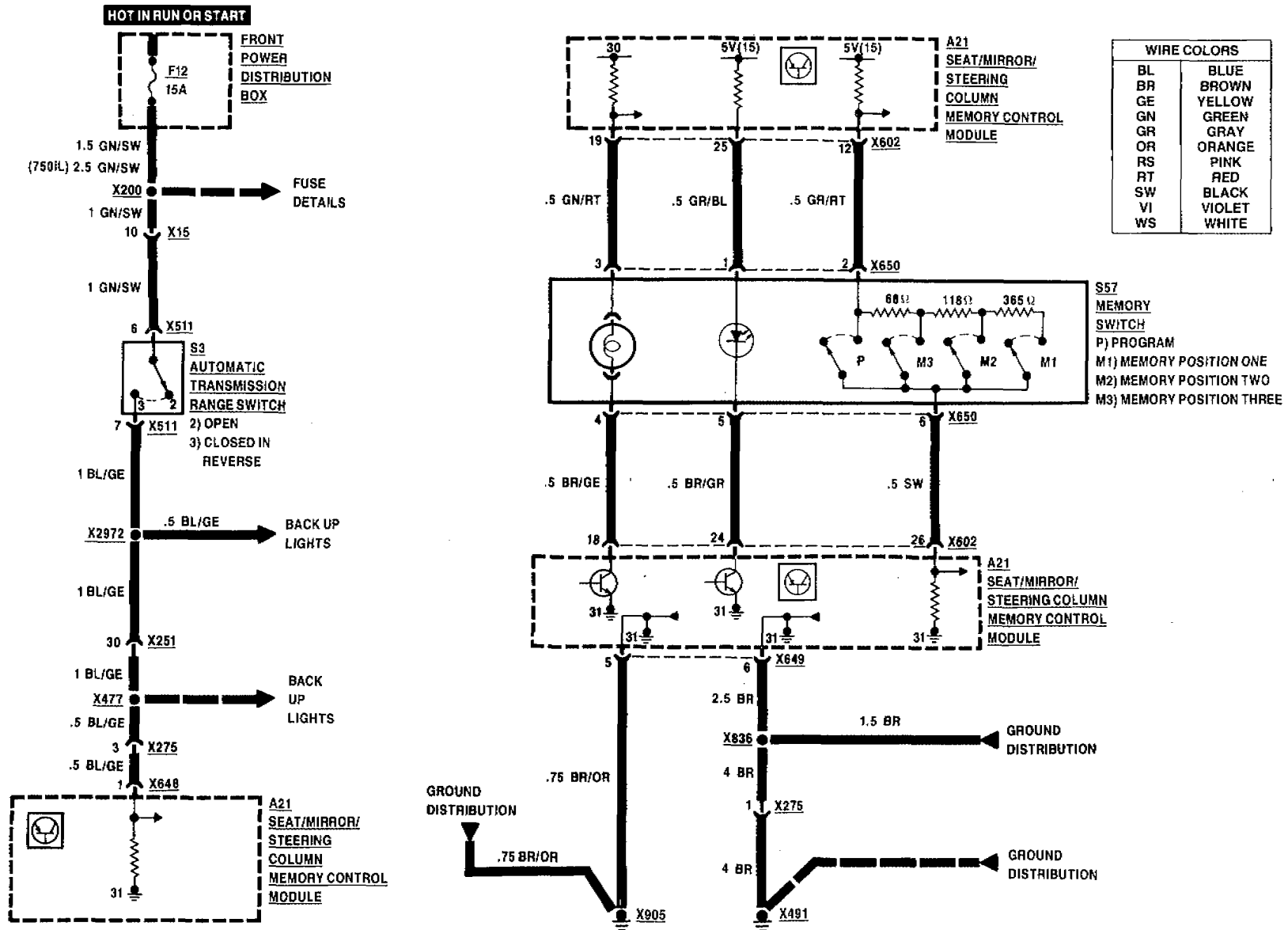
# MIRROR MEMORY



# MIRROR MEMORY



**BMW 7 MIRROR MEMORY**



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

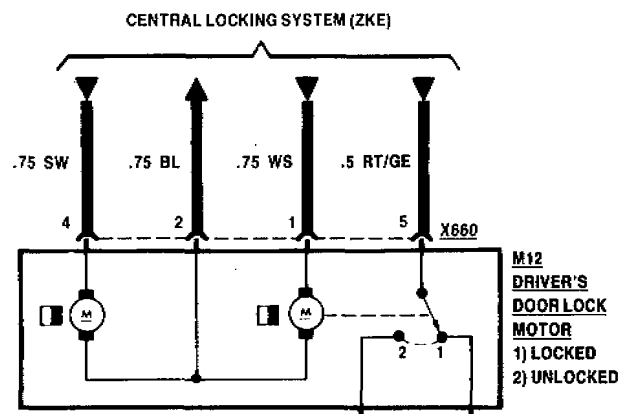




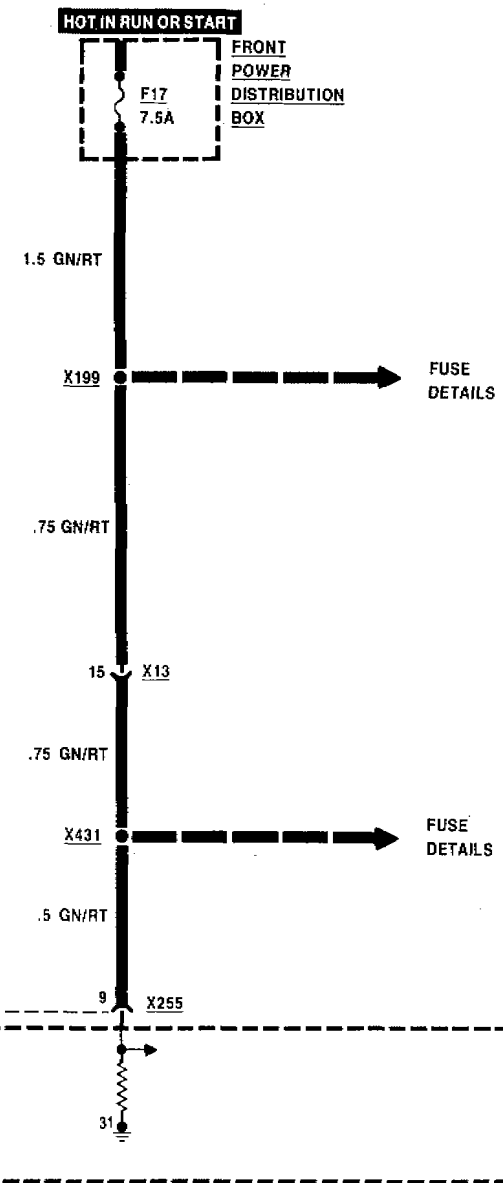
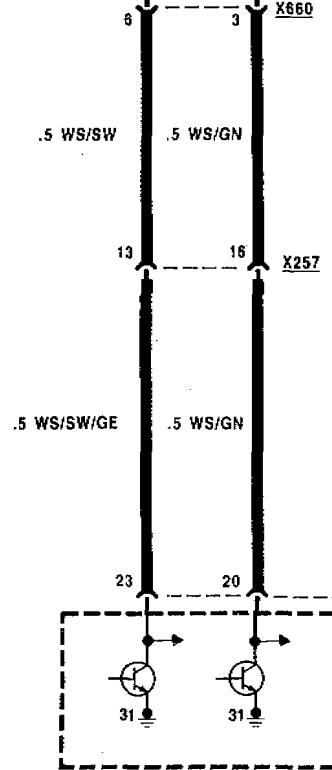


# DOOR LOCK HEATING (ZKE)

## INPUT DETAILS



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

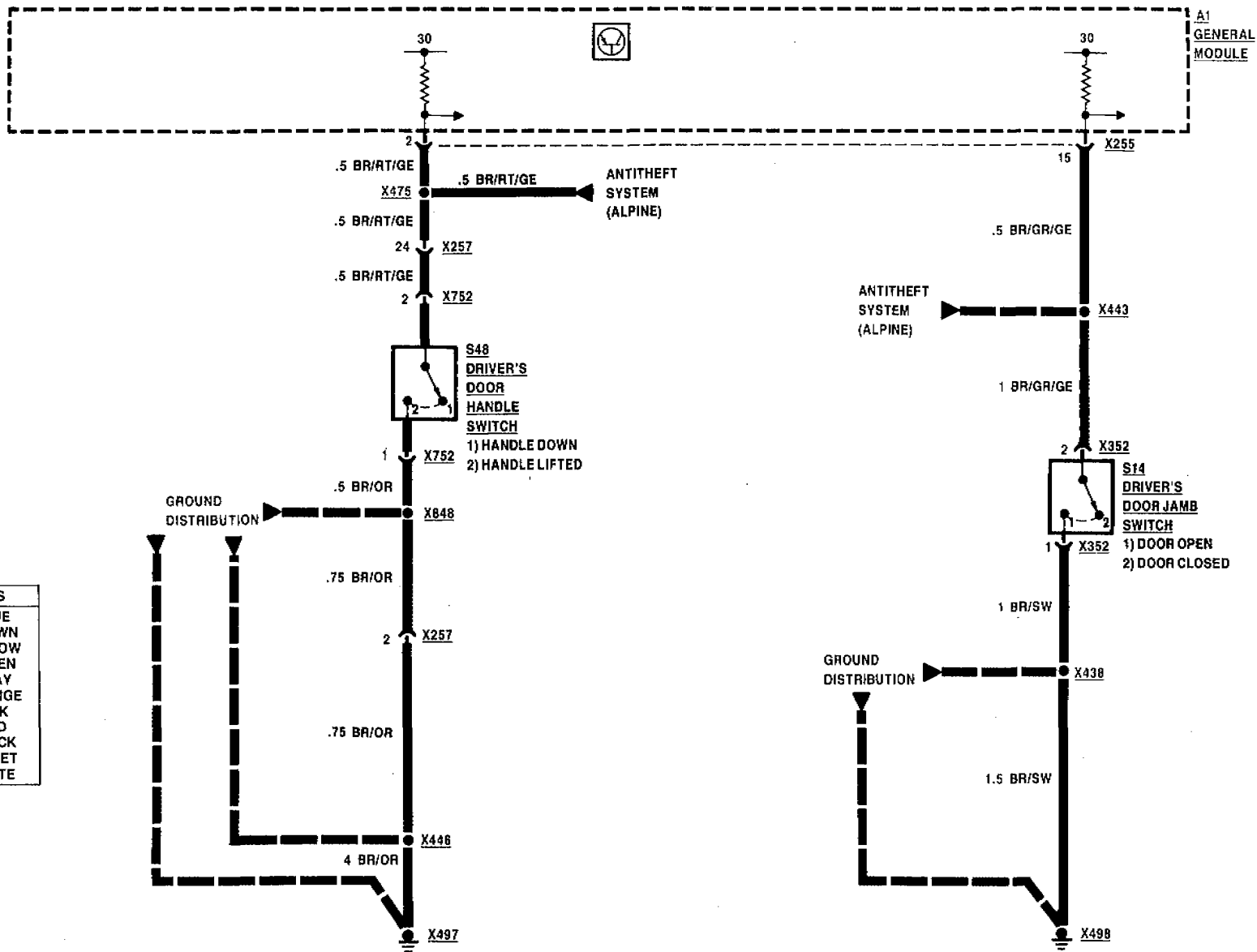






# DOOR LOCK HEATING (ZKE)

## INPUT DETAILS

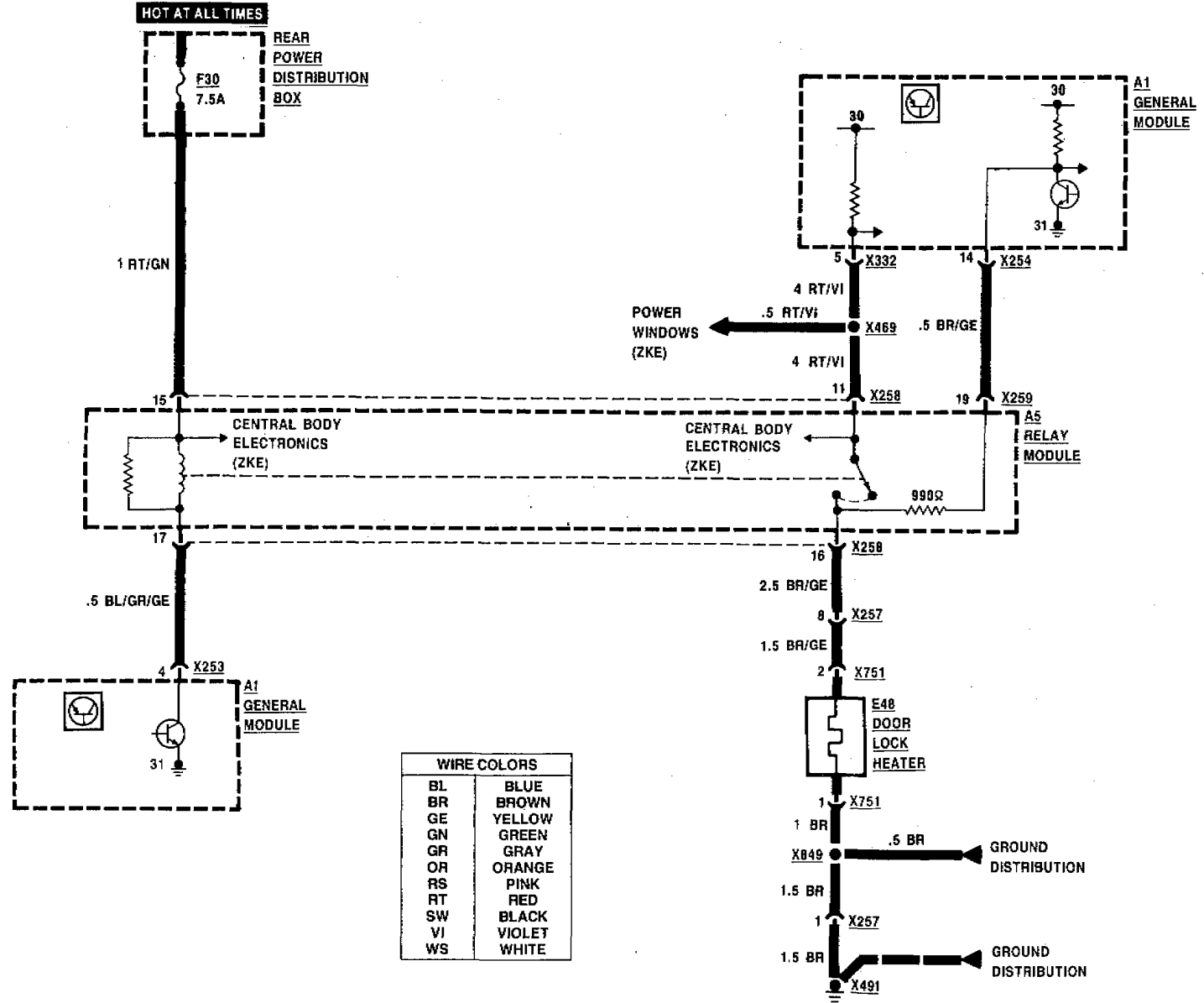


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# DOOR LOCK HEATING (ZKE)

## OUTPUT DETAILS

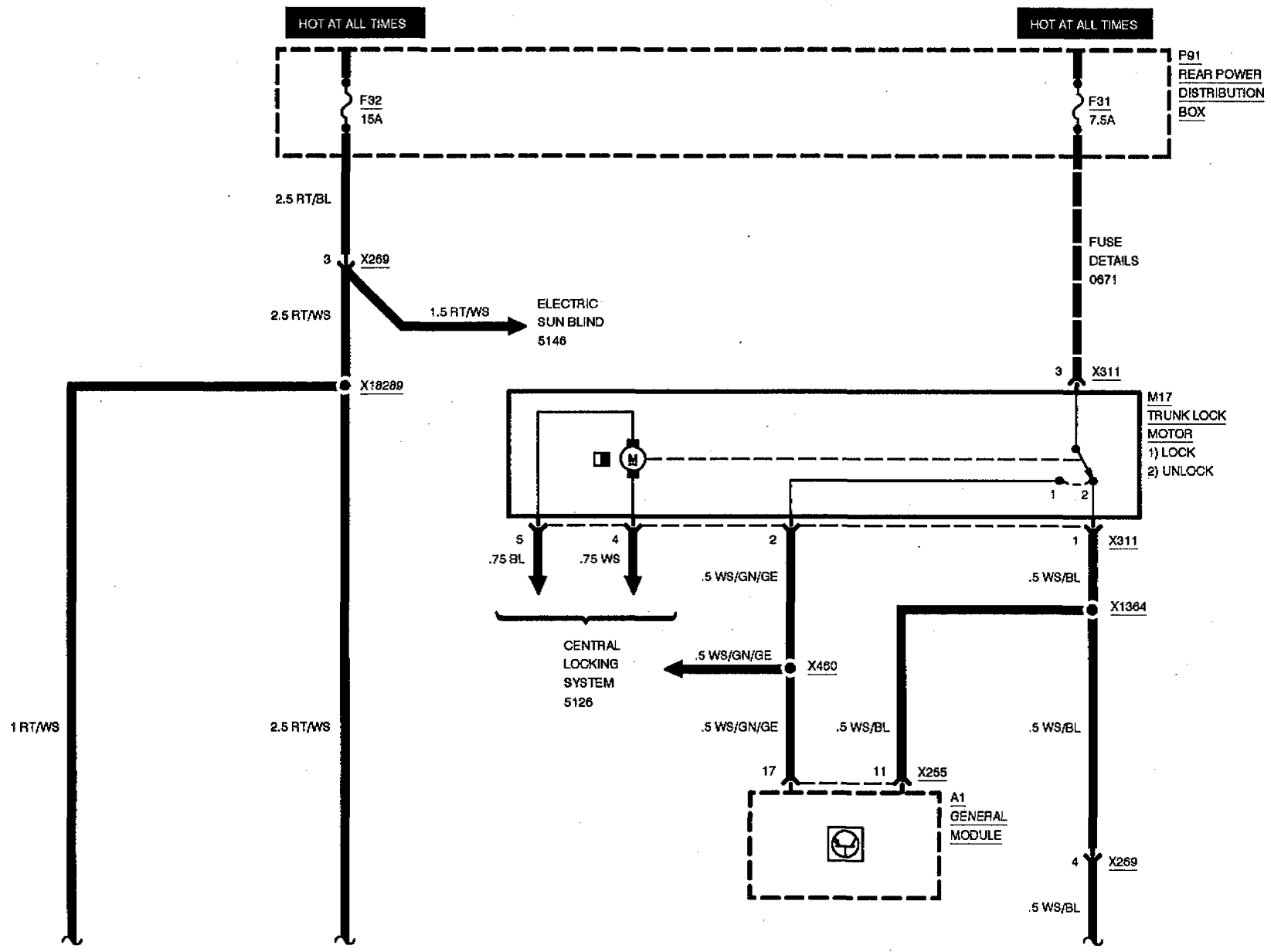


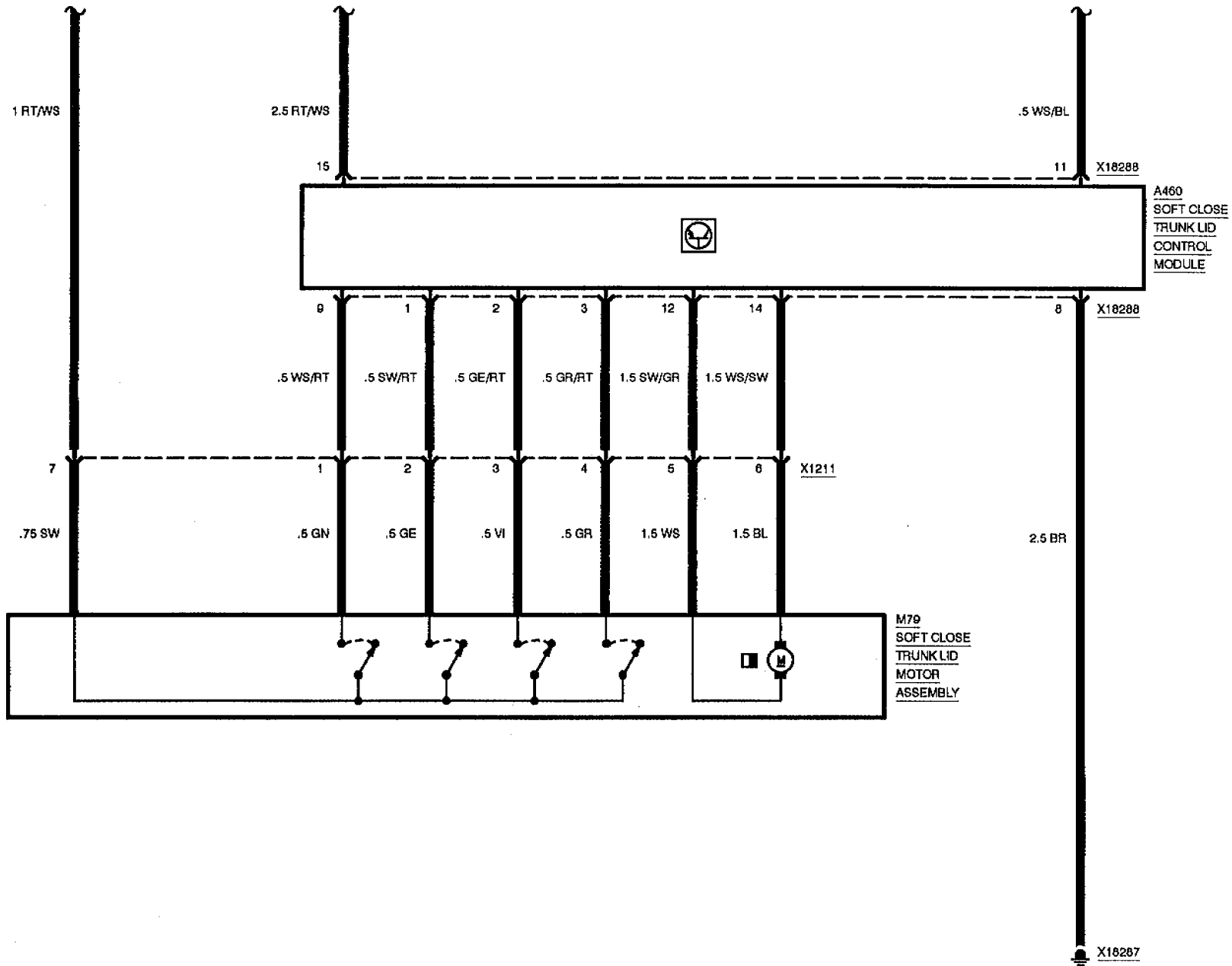
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# SOFT CLOSE AUTOMATIC TRUNK LID

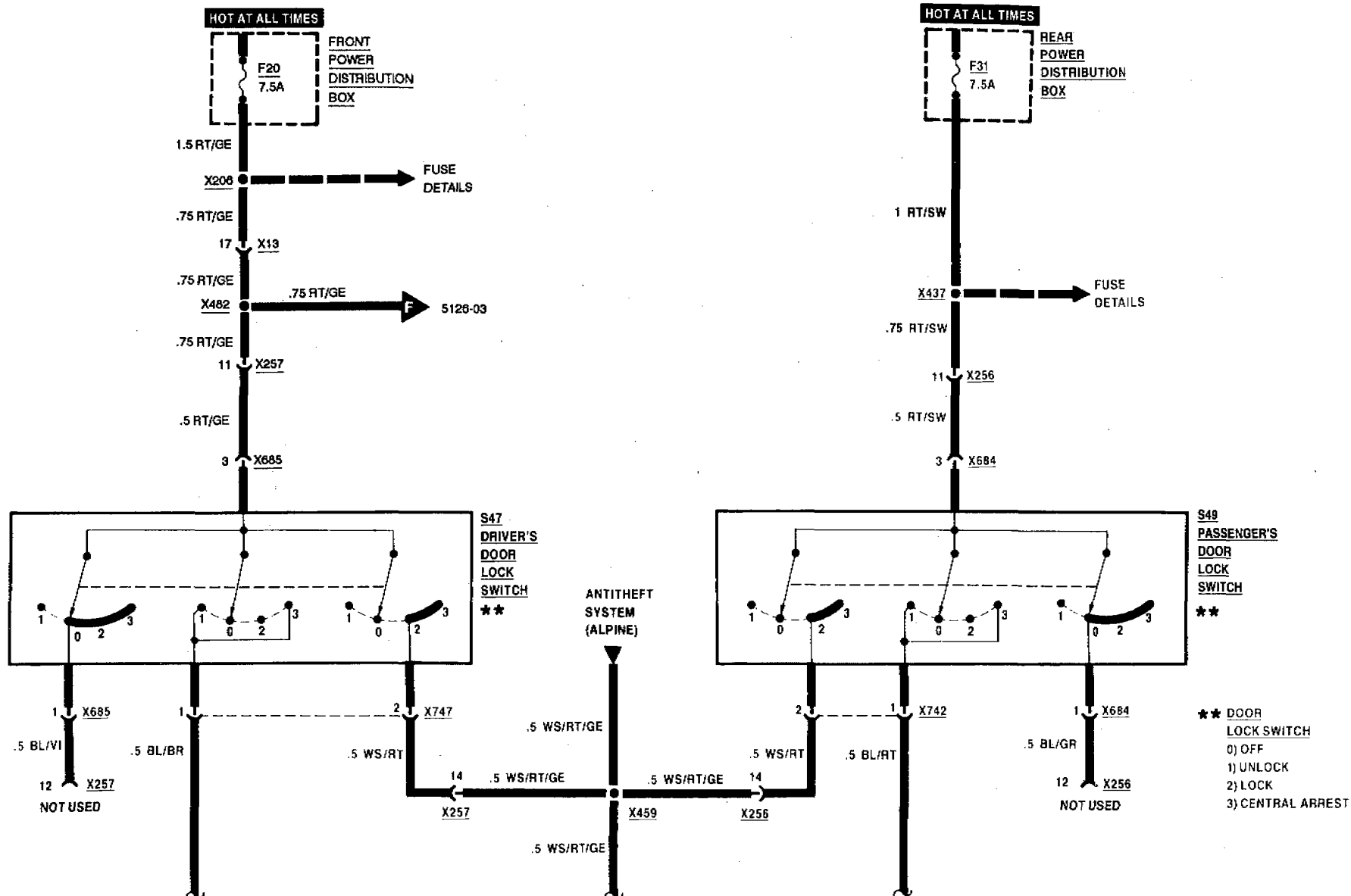


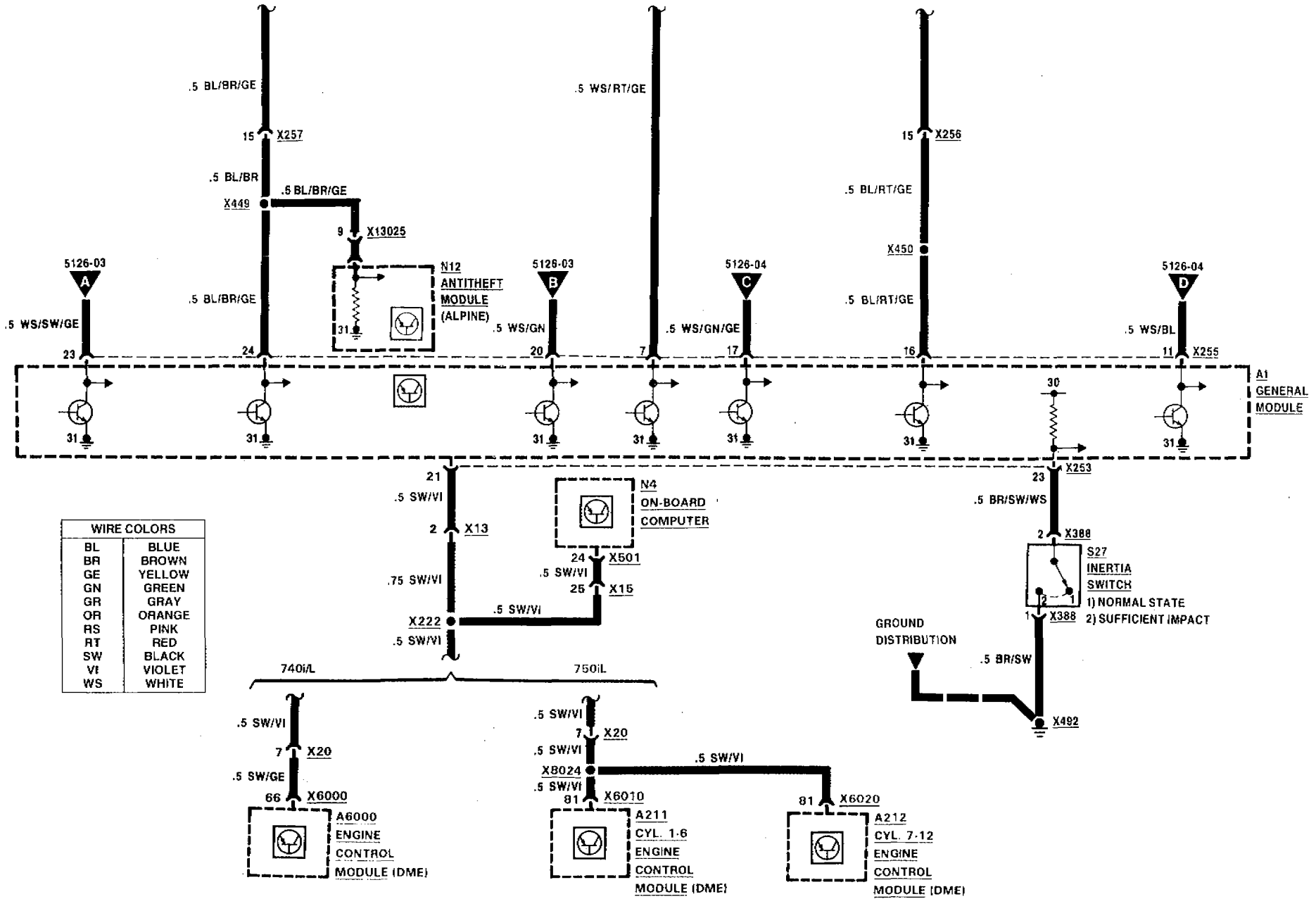




# CENTRAL LOCKING SYSTEM (ZKE)

## INPUT DETAILS



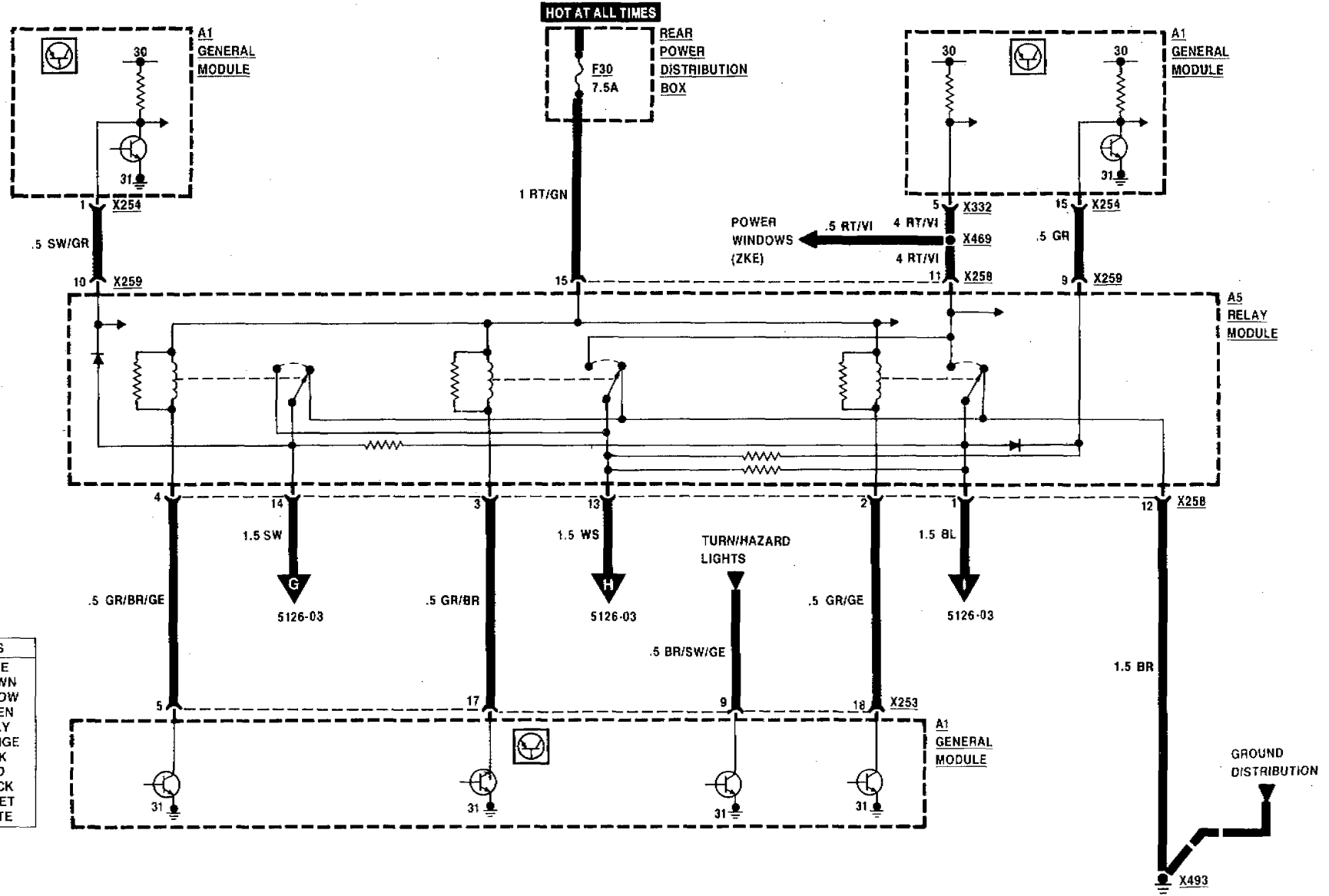


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# CENTRAL LOCKING SYSTEM (ZKE)

## OUTPUT DETAILS



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

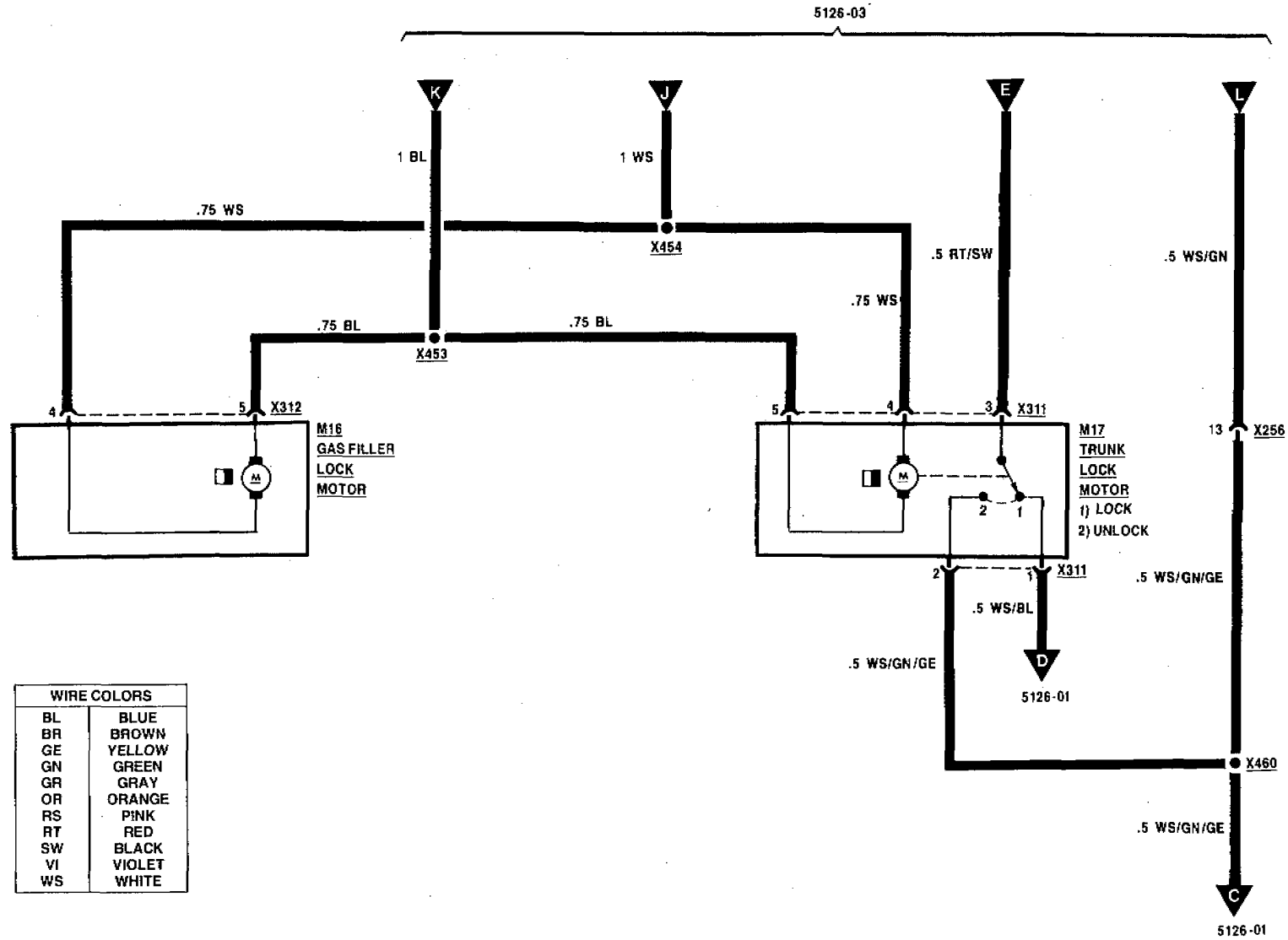






# CENTRAL LOCKING SYSTEM (ZKE)

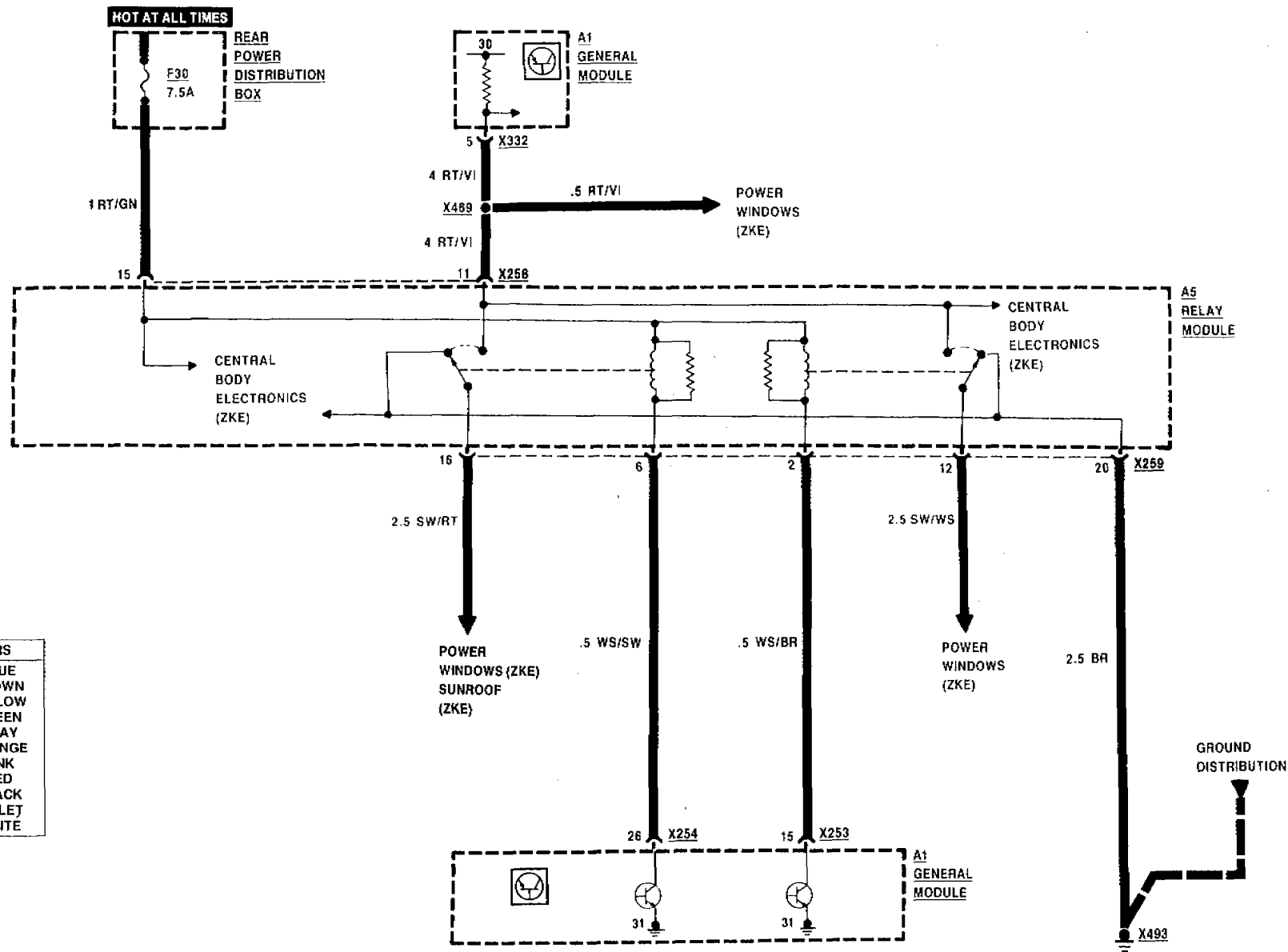
## OUTPUT DETAILS





# CENTRAL LOCKING SYSTEM (ZKE)

## OUTPUT DETAILS



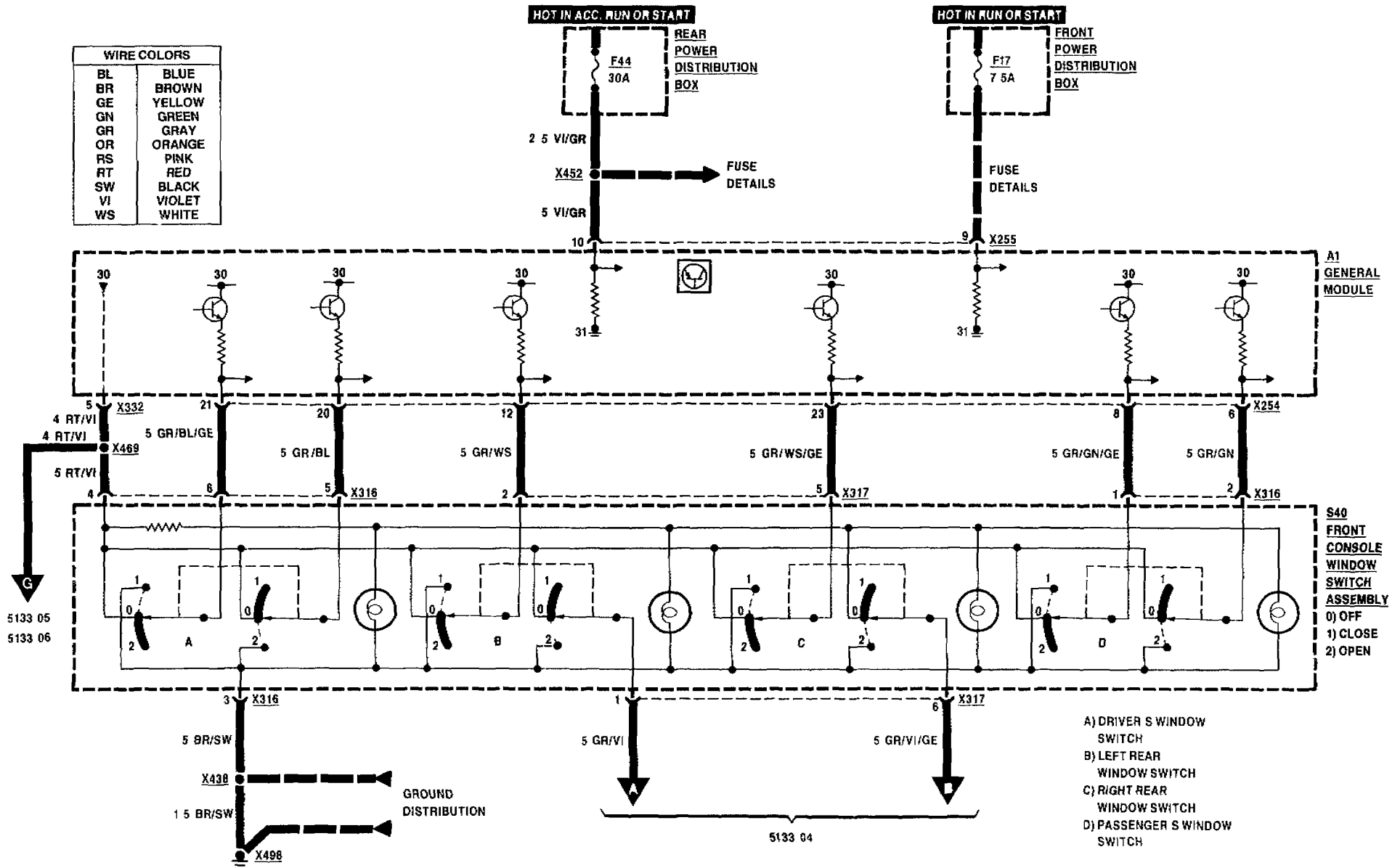
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# POWER WINDOWS (ZKE)

## INPUT DETAILS

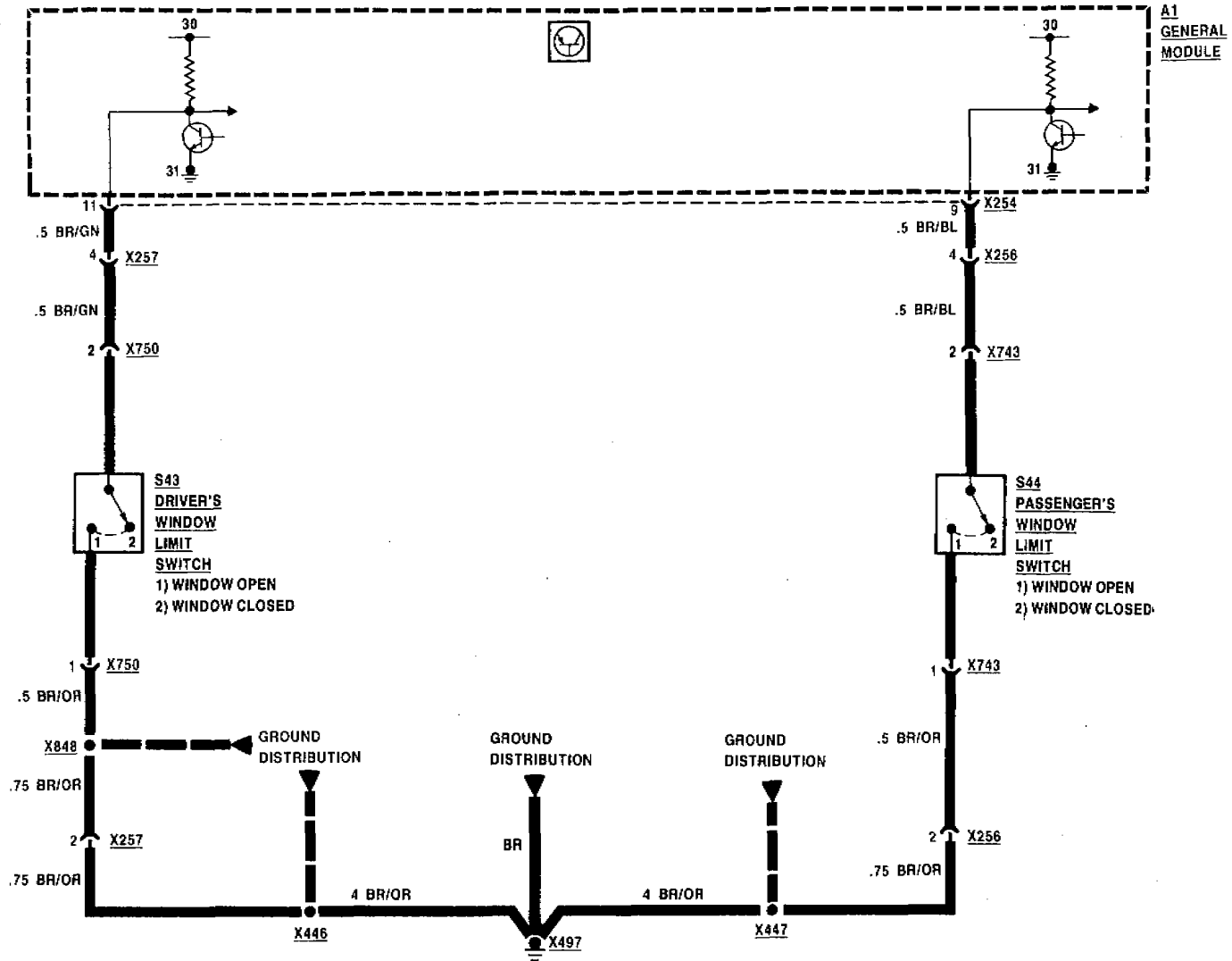
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BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# POWER WINDOWS (ZKE)

## INPUT DETAILS

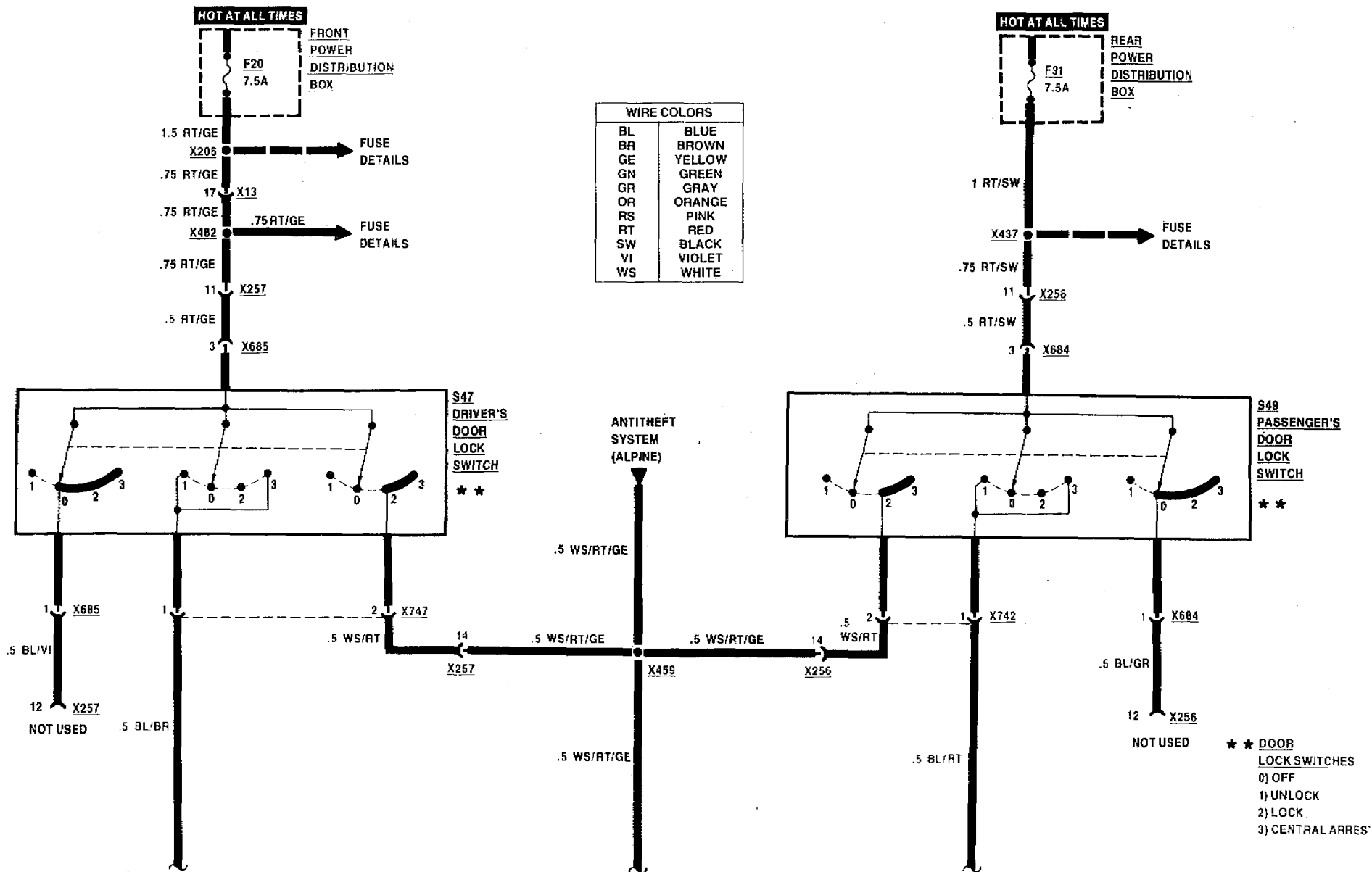


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# POWER WINDOWS (ZKE)

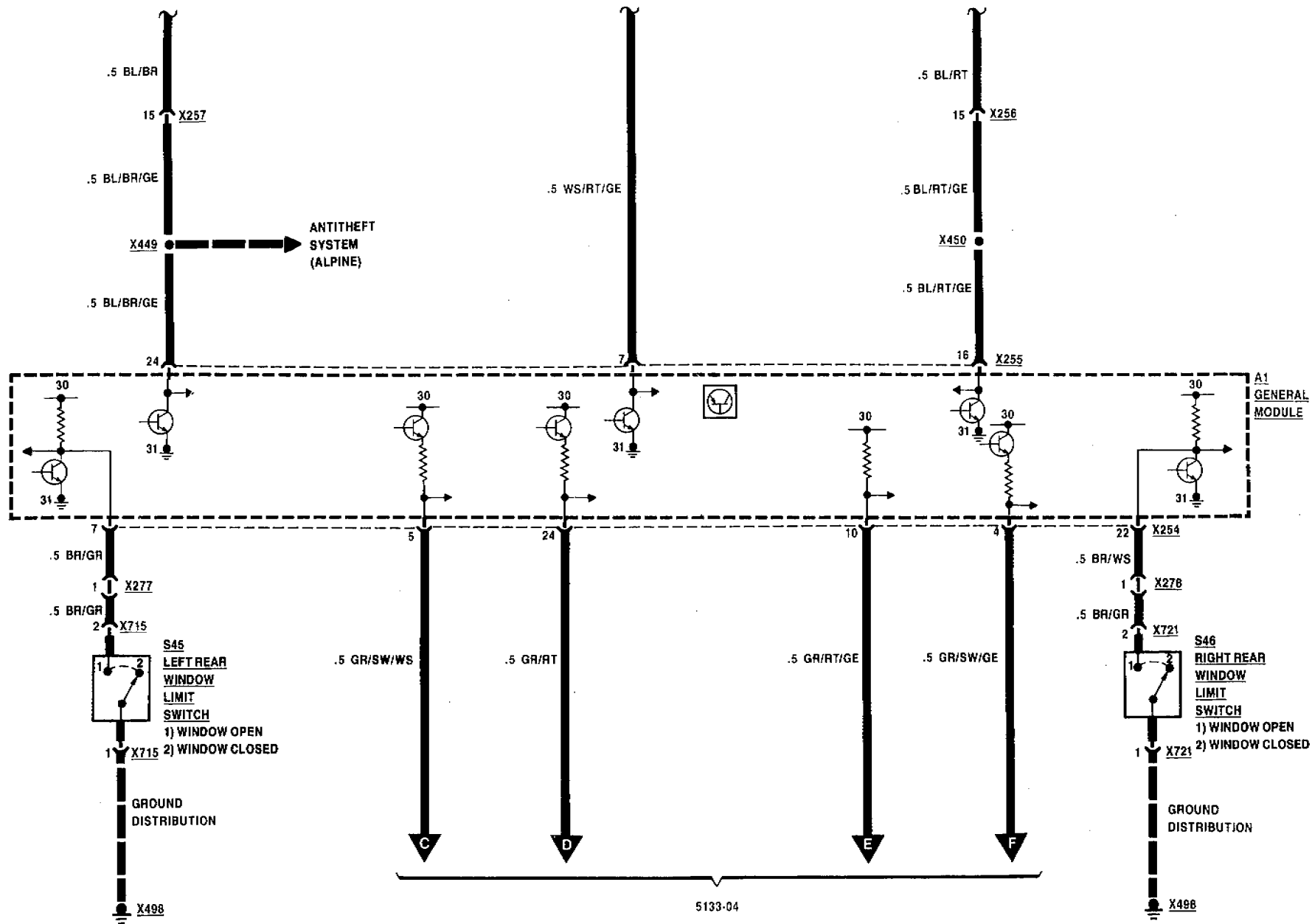
## INPUT DETAILS



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5133-02

93/94

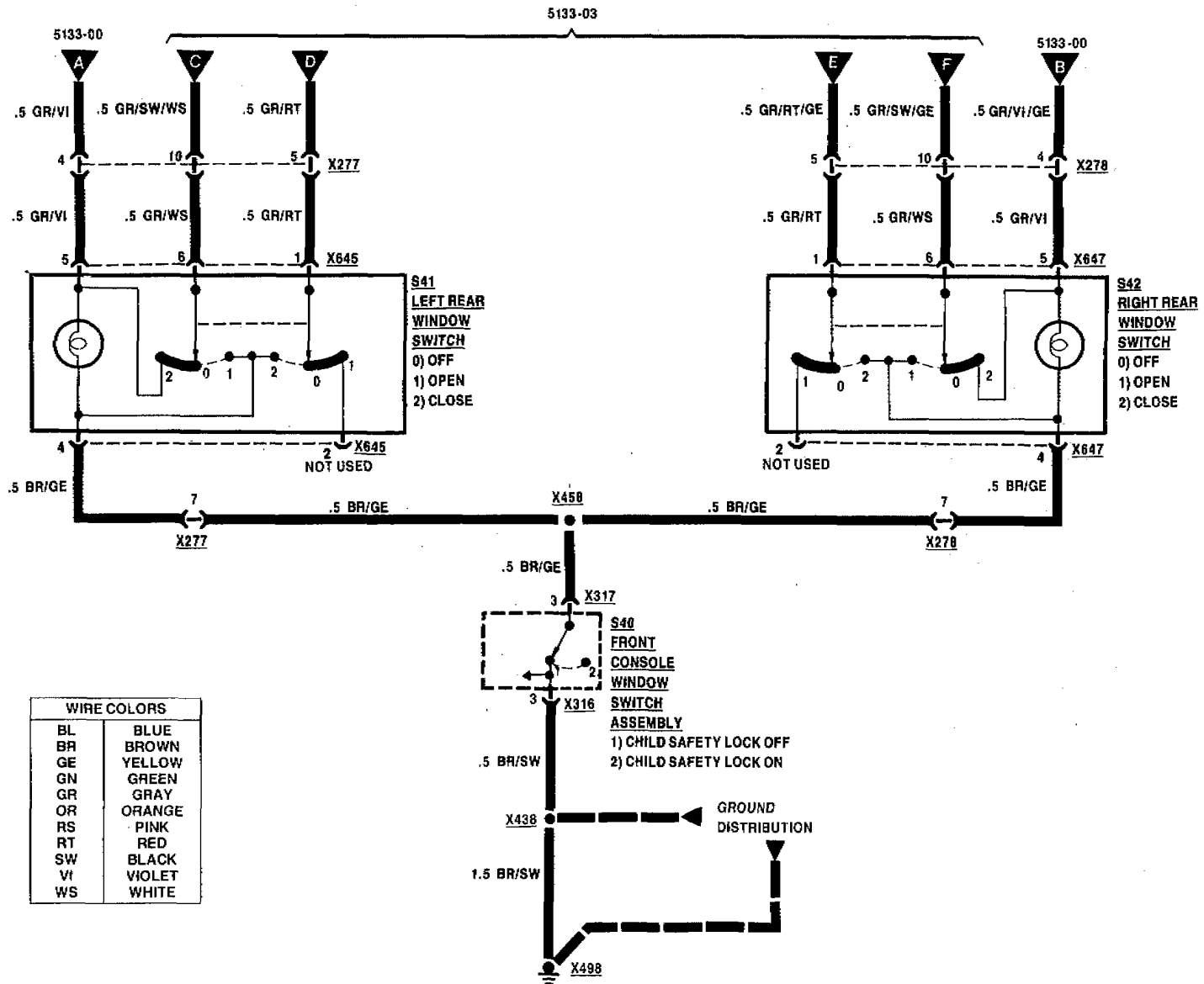


5133-04



# POWER WINDOWS (ZKE)

## INPUT DETAILS

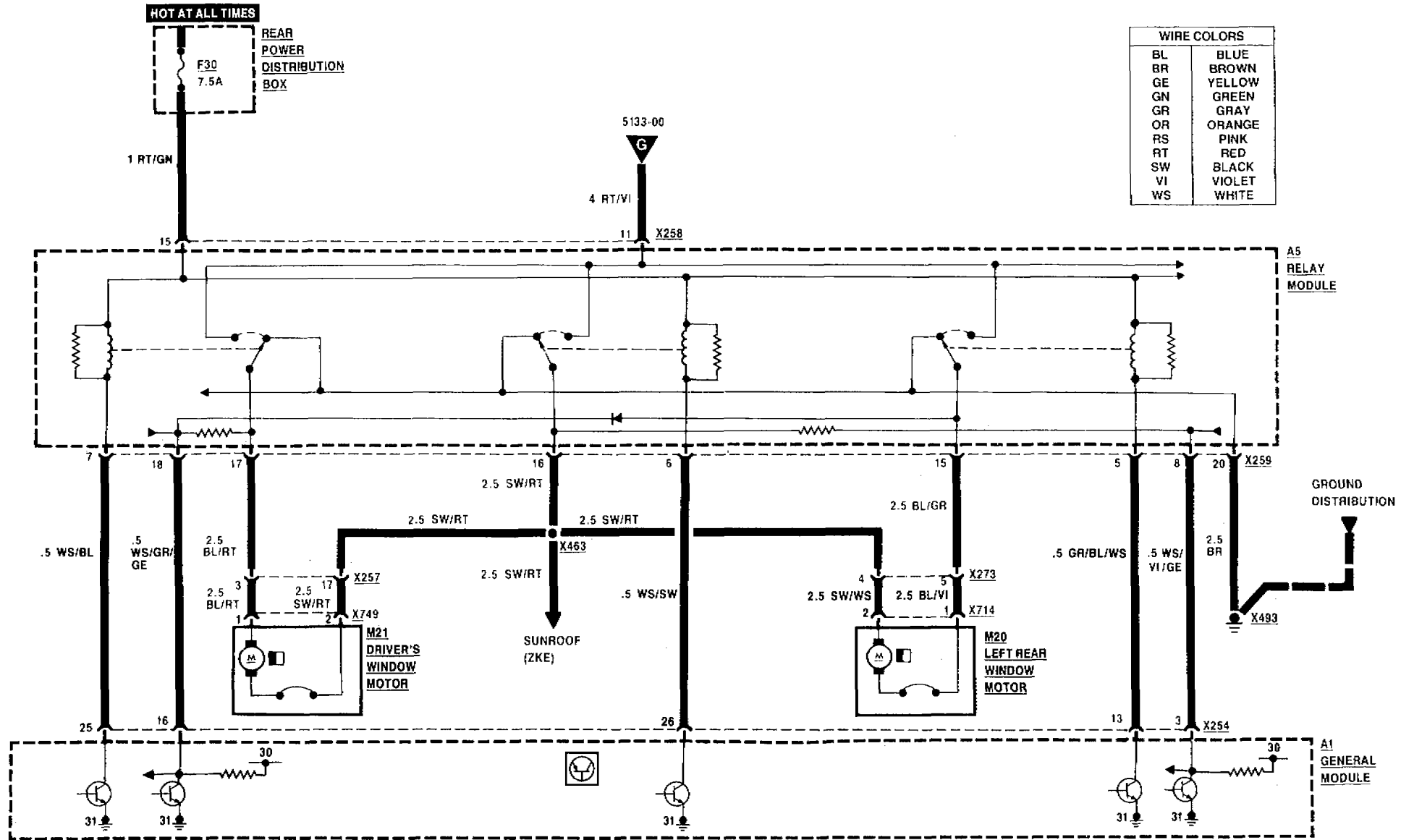






# POWER WINDOWS (ZKE)

## LEFT SIDE OUTPUT DETAILS



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5133-05

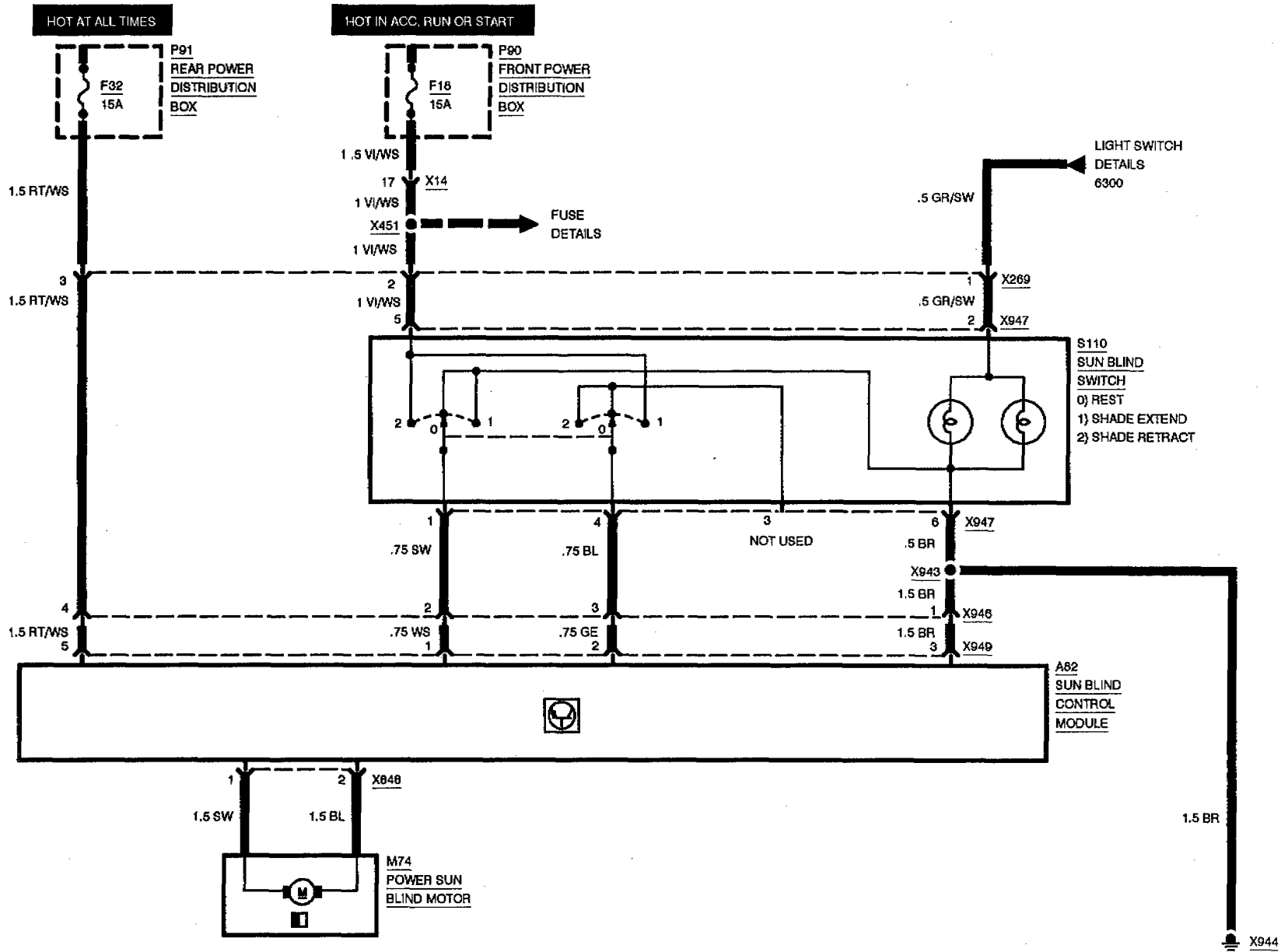
93/94





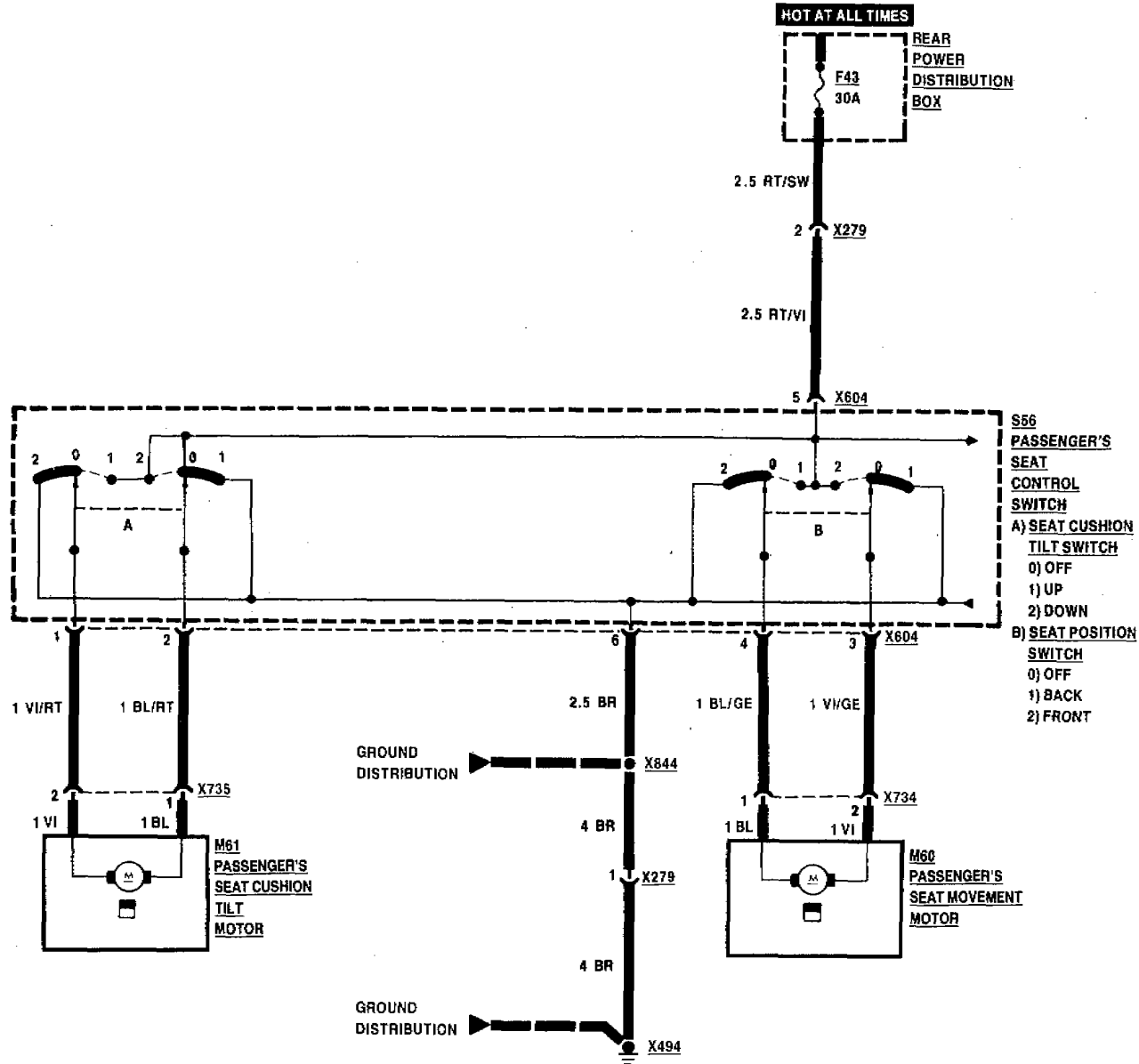


# ELECTRIC SUN BLIND





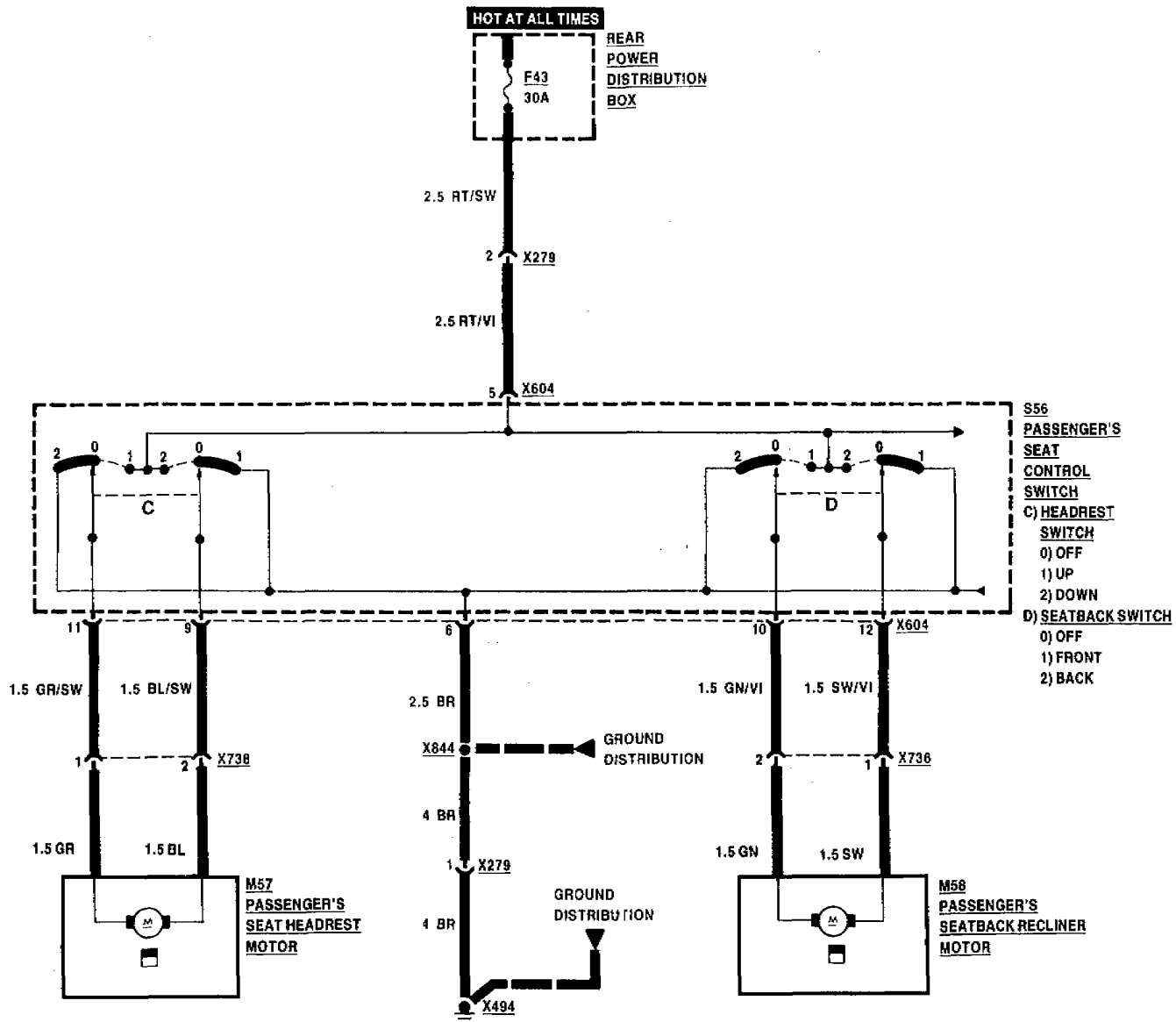
**BMW 7** **POWER SEATS**  
**PASSENGER'S SEAT**



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



# POWER SEATS PASSENGER'S SEAT

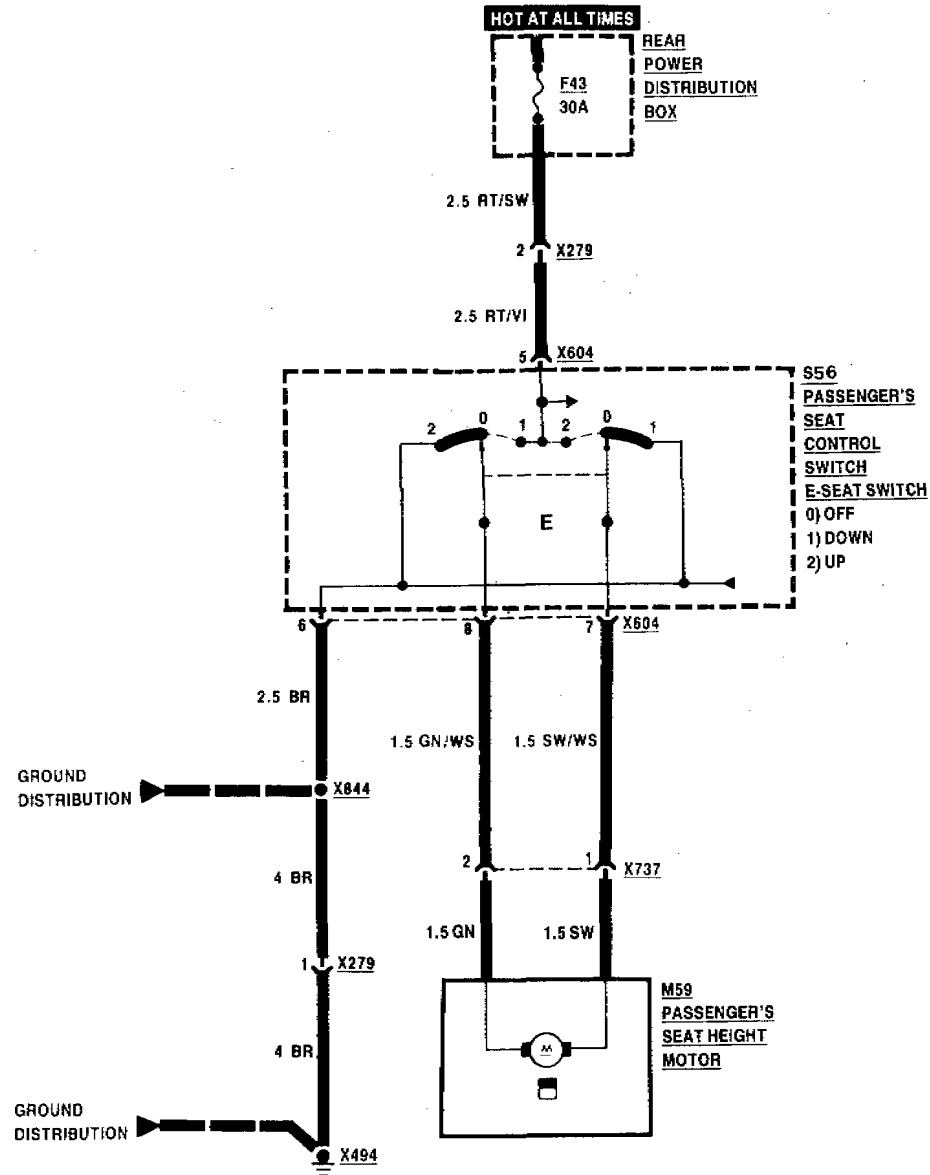


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# POWER SEATS

## PASSENGER'S SEAT



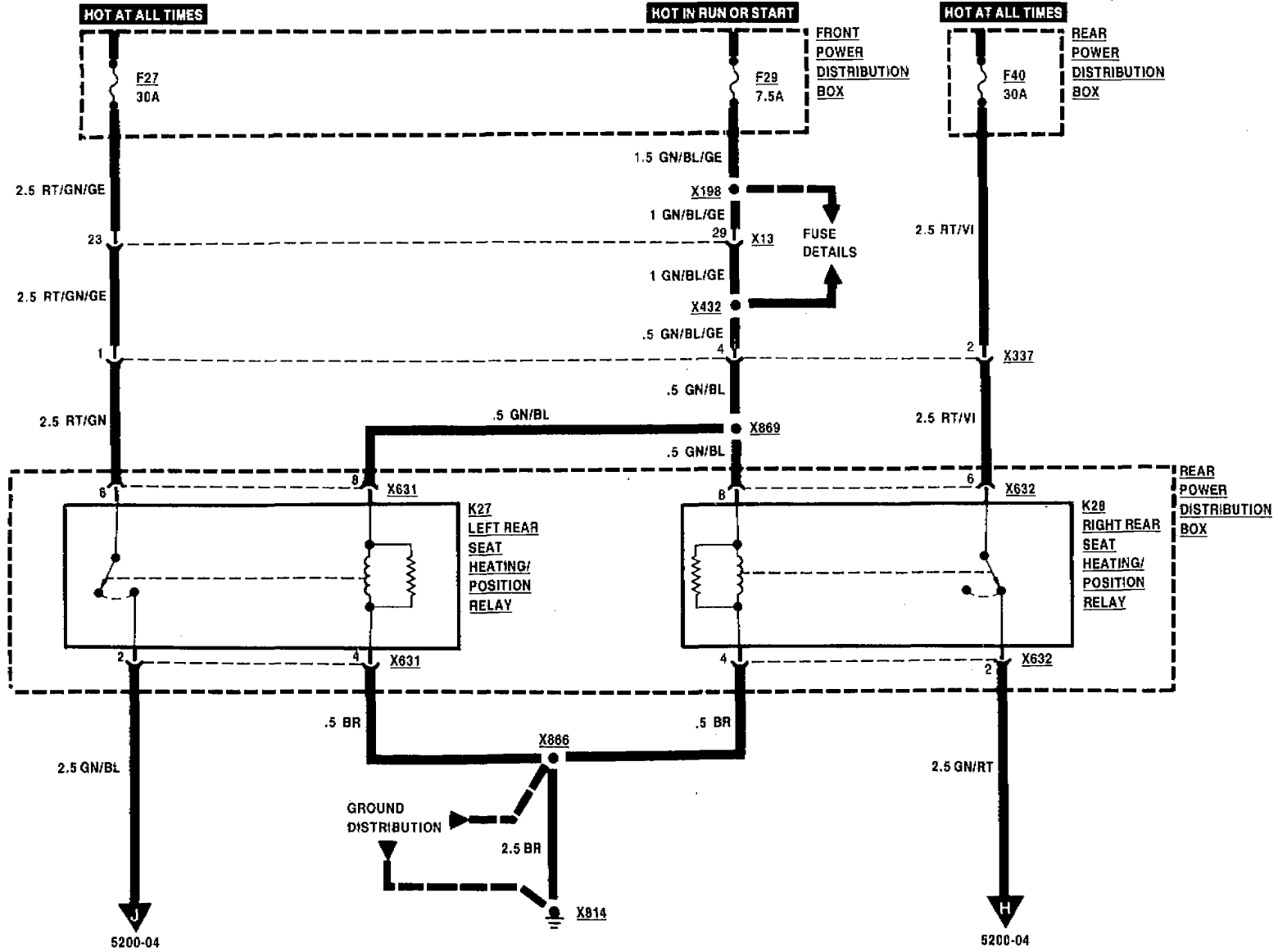
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# POWER SEATS

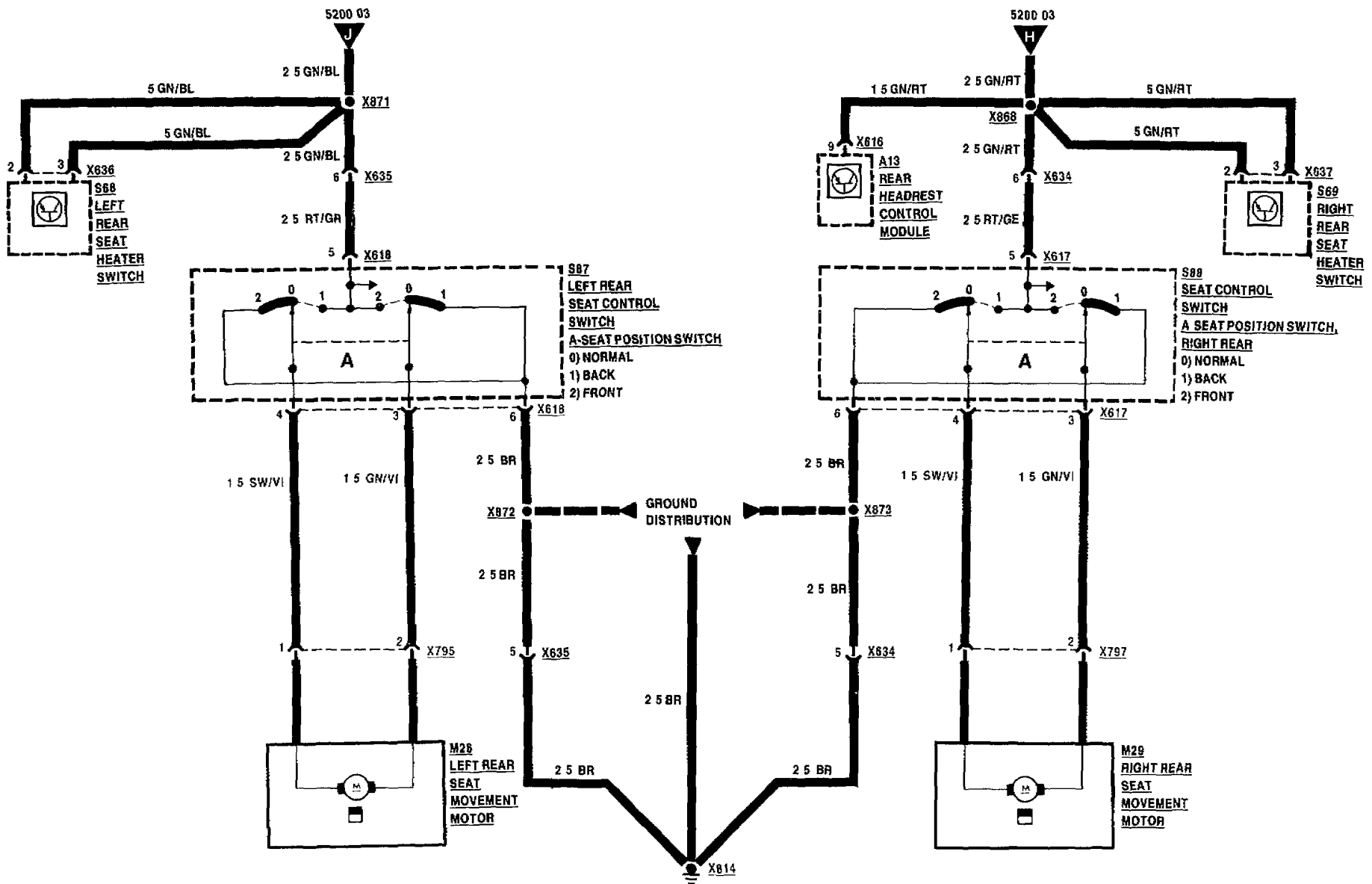
## REAR SEATS



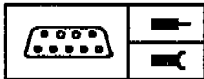


# POWER SEATS

## REAR SEATS







## Pin Assignments

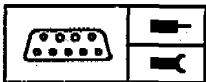
Early Production

A=X601	26 Pins, yellow
B=X602	26 Pins, white
C=X648	6 Pins, black
D=X649	6 Pins, white
E=X653	6 Pins, black
F=X654	6 Pins, white
G=X655	6 Pins, blue
H=X656	6 Pins, green
I=X657	6 Pins, brown
J=X18098	5 Pins, yellow

### X601

Pin	Type	Description/Function	Connection
1	E	Potentiometer connection	Driver's side memory mirror adjustment motor, Y9
2	E	Potentiometer connection	Driver's side memory mirror adjustment motor, Y9
3	E	Potentiometer connection	Driver's side memory mirror adjustment motor, Y9
4	E	Potentiometer connection	Driver's side memory mirror adjustment motor, Y9
5		Not used	
6	E	Potentiometer connection	Passenger's side memory mirror adjustment motor, Y10
7		Not used	
8		Not used	
9		Not used	
10	E	Potentiometer connection	Passenger's side memory mirror adjustment motor, Y10
11	E	Mirror adjustment switch Pin 5	Mirror adjustment switch, S12
12	E	Mirror adjustment switch Pin 3	Mirror adjustment switch, S12
13	E	Mirror adjustment switch Pin 2	Mirror adjustment switch, S12
14	E/A	Connection to mirror adjustment motor, driver's	Driver's mirror adjustment motor, Y9

E = Input, A = Output, M = Ground



## Pin Assignments

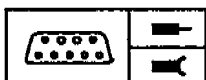
## Early Production

Pin	Type	Description/Function	Connection
15	E/A	Connection to mirror adjustment motor, driver's	Driver's mirror adjustment motor, Y9
16	E/A	Connection to mirror adjustment motor, driver's	Driver's mirror adjustment motor, Y9
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21	E	Potentiometer connection	Driver's side memory mirror adjustment motor, Y9
22	E/A	Connection to mirror adjustment motor, passenger's	Passenger's mirror adjustment motor, Y10
23	E/A	Connection to mirror adjustment motor, passenger's	Passenger's mirror adjustment motor, Y10
24	E/A	Connection to mirror adjustment motor, passenger's	Passenger's mirror adjustment motor, Y10
25	E	Potentiometer connection	Passenger's memory mirror
26		Not used	

## X602

Pin	Type	Description/Function	Connection
1	E	Headrest down	Driver's seat adjustment switch, S50
2	E	Tilt down	Driver's seat adjustment switch, S50
3	E	Height down	Driver's seat adjustment switch, S50
4	E	Headrest up	Driver's seat adjustment switch, S50
5	E	Tilt up	Driver's seat adjustment switch, S50
6	E	Height up	Driver's seat adjustment switch, S50
7		Not used	
8	E	Seat movement back	Driver's seat adjustment switch, S50
9	E	Backrest back	Driver's seat adjustment switch, S50
10	E	Seat movement forward	Driver's seat adjustment switch, S50
11		Not used	

E = Input, A = Output, M = Ground



## Pin Assignments

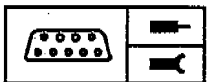
Early Production

Pin	Type	Description/Function	Connection
12	E	Memory switch Pin 2	Memory seat mirror switch, S57
13	E	Backrest forward	Driver's seat adjustment switch, S50
14		Not used	
15	E	Ground	Driver's seat adjustment switch, S50
16		Not used	
17		Not used	
18	E	Lights	Memory seat mirror switch, S57
19	A	Lights	Memory seat mirror switch, S57
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24	E	Function Light	Memory seat mirror switch, S57
25	A	Function Light	Memory seat mirror switch, S57
26	E	Program	Memory seat mirror switch, S57

### X648

Pin	Type	Description/Function	Connection
1	E	Backup Switch	Automatic transmission switch, S3
2	E	Driver's door jamb switch	Driver's door jamb switch, S14
3		Not used	
4		Not used	
5	A	Diagnosis	Data Link connector, RxD
6	E	Diagnosis	Data Link connector, TxD

E = Input, A = Output, M = Ground



## Pin Assignments

## Early Production

### X649

Pin	Type	Description/Function	Connection
1	E	Plus supply, terminal 15	Front power distribution box
2		Not used	
3	E	Plus supply, terminal R	Front power distribution box
4	E	Continuous plus supply, terminal 30	Rear power distribution box
5	M	Ground	Ground point
6	M	Ground	Ground point

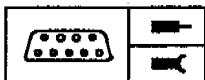
### X653

Pin	Type	Description/Function	Connection
1	A	5V voltage supply	Headrest potentiometer, R5
2	E	Signal	Headrest potentiometer, R5
3	E	Ground	Headrest potentiometer, R5
4	E/A	Power supply headrest relay	Headrest motor, M54
5		Not used	
6	E/A	Power supply headrest relay	Headrest motor, M54

### X654

Pin	Type	Description/Function	Connection
1	A	5V voltage supply	Seat height potentiometer, R6
2	E	Signal	Seat height potentiometer, R6
3	E	Ground	Seat height potentiometer, R6
4	E/A	Power supply seatheight relay	Seat height motor, M52
5		Not used	
6	E/A	Power supply seatheight relay	Seat height motor, M52

E = Input, A = Output, M = Ground



## Pin Assignments

Early Production

### X655

Pin	Type	Description/Function	Connection
1	A	5V voltage supply	Seatback potentiometer, R7
2	E	Signal	Seatback potentiometer, R7
3	E	Ground	Seatback potentiometer, R7
4	E/A	Power supply seatback relay	Seatback recliner motor, M53
5		Not used	
6	E/A	Power supply seatback relay	Seatback recliner motor, M53

### X656

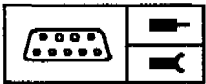
Pin	Type	Description/Function	Connection
1	A	5V voltage supply	Seat cushion potentiometer, R8
2	E	Signal	Seat cushion potentiometer, R8
3	E	Ground	Seat cushion potentiometer, R8
4	E/A	Power supply seat cushion	Seat cushion tilt motor, M50
5		Not used	
6	E/A	Power supply seat cushion	Seat cushion tilt motor, M50

### X657

Pin	Type	Description/Function	Connection
1	A	5V voltage supply	Seat movement potentiometer, R9
2	E	Signal	Seat movement potentiometer, R9
3	E	Ground	Seat movement potentiometer, R9
4	E/A	Power supply seat cushion movement relay	Seat movement motor, M51
5		Not used	
6	E/A	Power supply seat cushion movement relay	Seat movement motor, M51

E = Input, A = Output, M = Ground





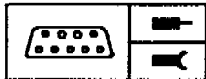
## Pin Assignments

Early Production

### X18098

Pin	Type	Description/Function	Connection
1	A	Steering column adjust potentiometer voltage supply	Steering column adjust potentiometer
2	E	Steering column adjust potentiometer position	Steering column adjust potentiometer
3	E	Steering column adjust potentiometer ground	Steering column adjust potentiometer
4	E/A	Steering column length adjust motor control	Steering column length adjust motor
5		Steering column length adjust motor control	Steering column length adjust motor

E = Input, A = Output, M = Ground



## Pin Assignments

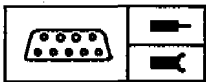
Late Production

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



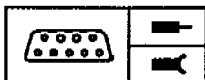
## Pin Assignments

Late Production

### 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		Not used	
16	A	Switch illumination (+)	Memory seat/mirrors switch
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

Late Production

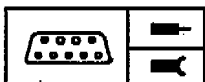
### X18321

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/vertikal	Memory mirror, driver's side
5	E/A	Mirror adjustment motor horizontal/vertikal	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, passenger's side
15		Not used	
16	E	Potentiometer connection	Passenger's side memory mirror, Y10
17	E	Potentiometer connection	Passenger's side memory mirror, Y10

E = Input, A = Output, M = Ground



## Pin Assignments

Late Production

Pin	Type	Description/Function	Connection
18	E/A	Connection to mirror adjustment motor, driver's	Driver's mirror adjustment motor, Y9
19		Not Used	
20		Not used	
21		Not used	
22	E	Potentiometer connection	Passenger's memory mirror adjustment motor, Y10
23	E	Potentiometer connection	Driver's memory mirror adjustment motor, Y9
24	E	Reverse gear signal	Automatic transmission range switch or back up switch
25		Not used	
26		Not used	

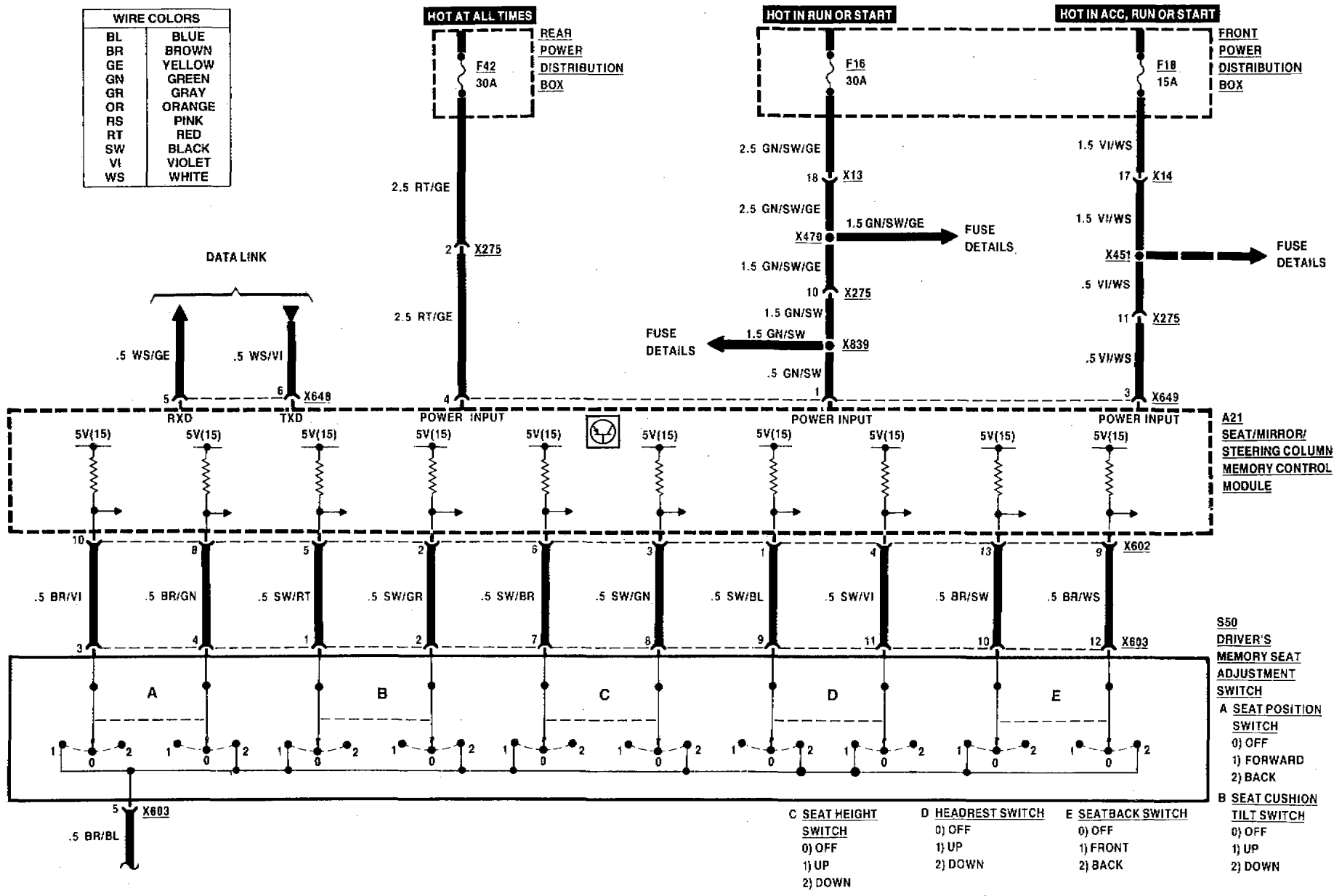
### X18323

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

E = Input, A = Output, M = Ground



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



**A21**  
SEAT/MIRROR/  
STEERING COLUMN  
MEMORY CONTROL  
MODULE

**S50**  
DRIVER'S  
MEMORY SEAT  
ADJUSTMENT  
SWITCH

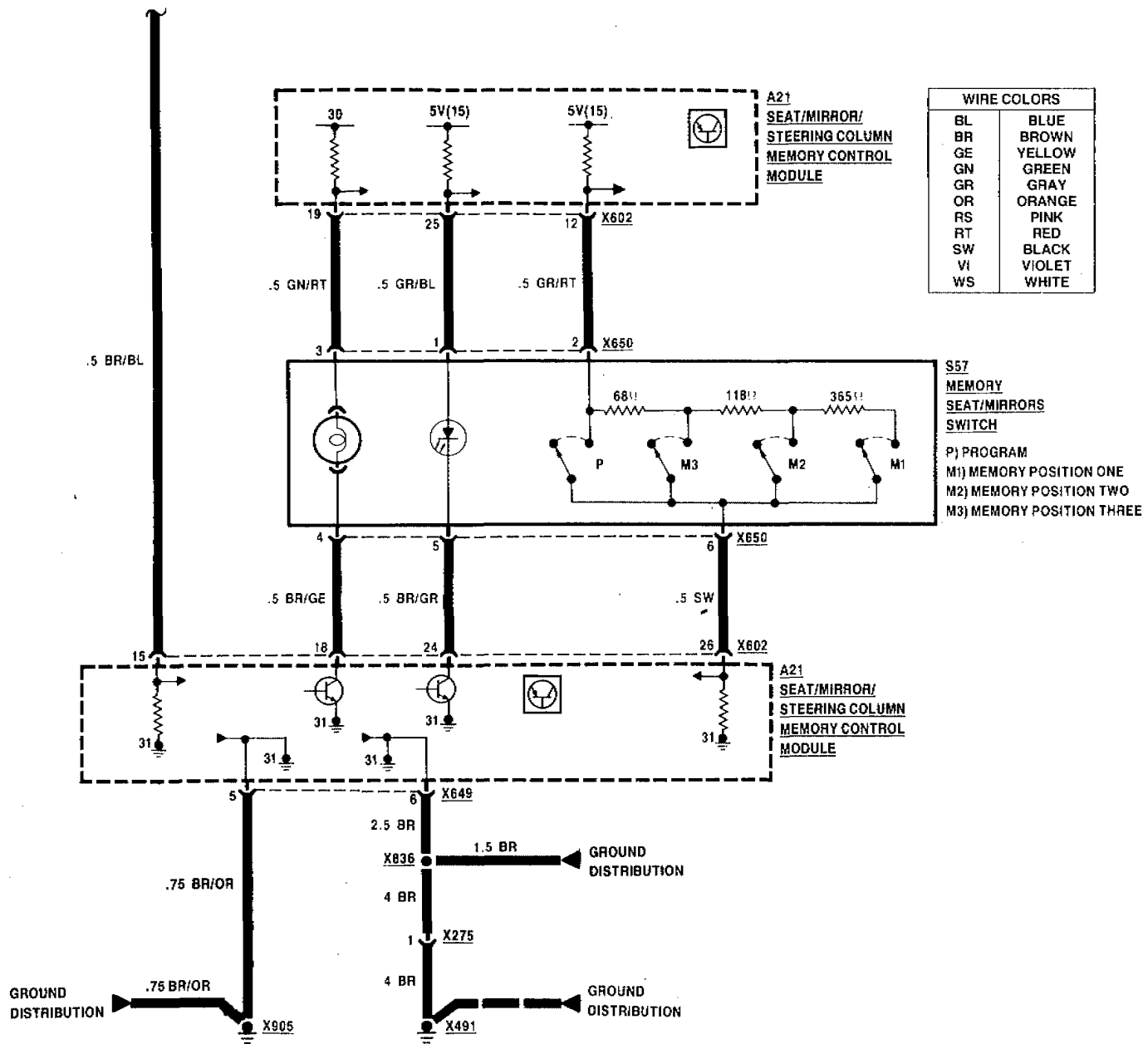
**A SEAT POSITION SWITCH**  
0) OFF  
1) FORWARD  
2) BACK

**B SEAT CUSHION TILT SWITCH**  
0) OFF  
1) UP  
2) DOWN

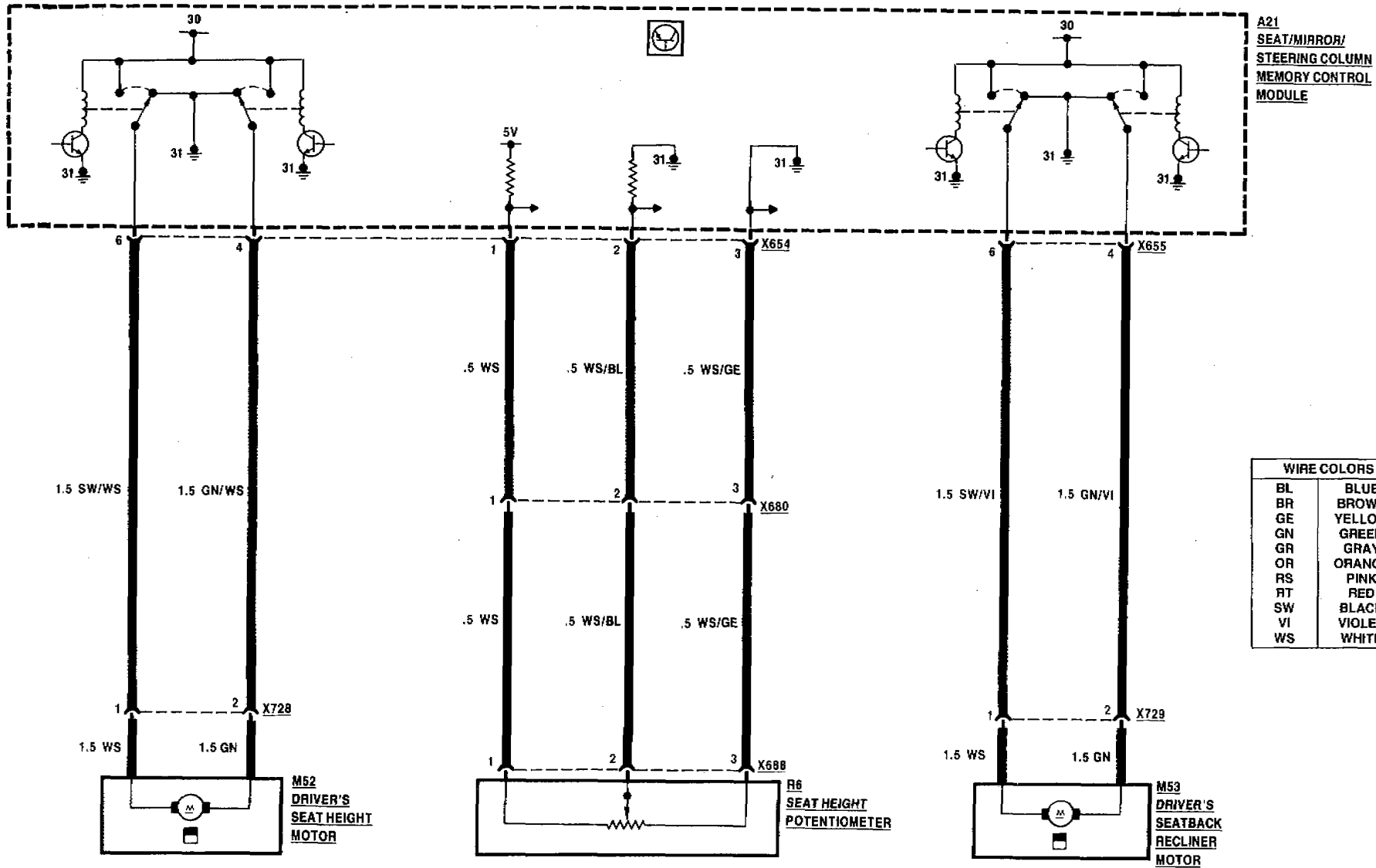
**C SEAT HEIGHT SWITCH**  
0) OFF  
1) UP  
2) DOWN

**D HEADREST SWITCH**  
0) OFF  
1) UP  
2) DOWN

**E SEATBACK SWITCH**  
0) OFF  
1) FRONT  
2) BACK







A21  
SEAT/MIRROR/  
STEERING COLUMN  
MEMORY CONTROL  
MODULE

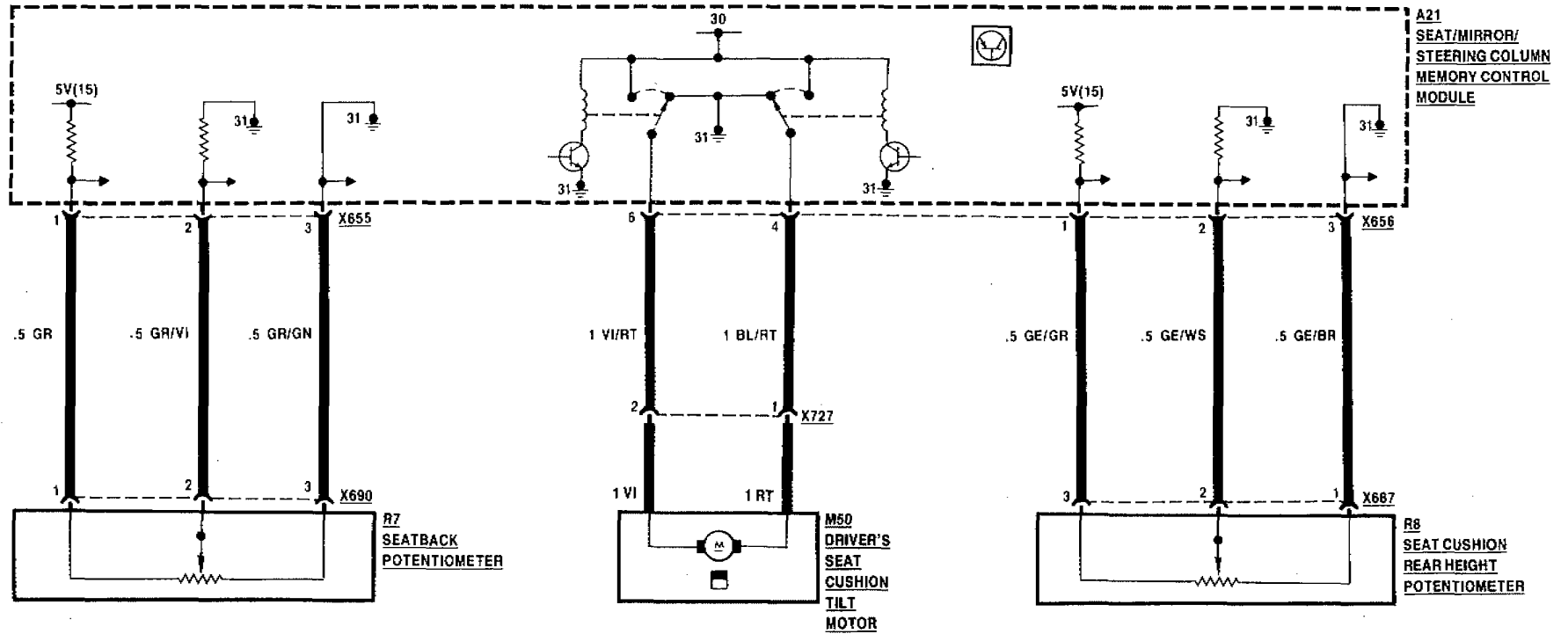
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

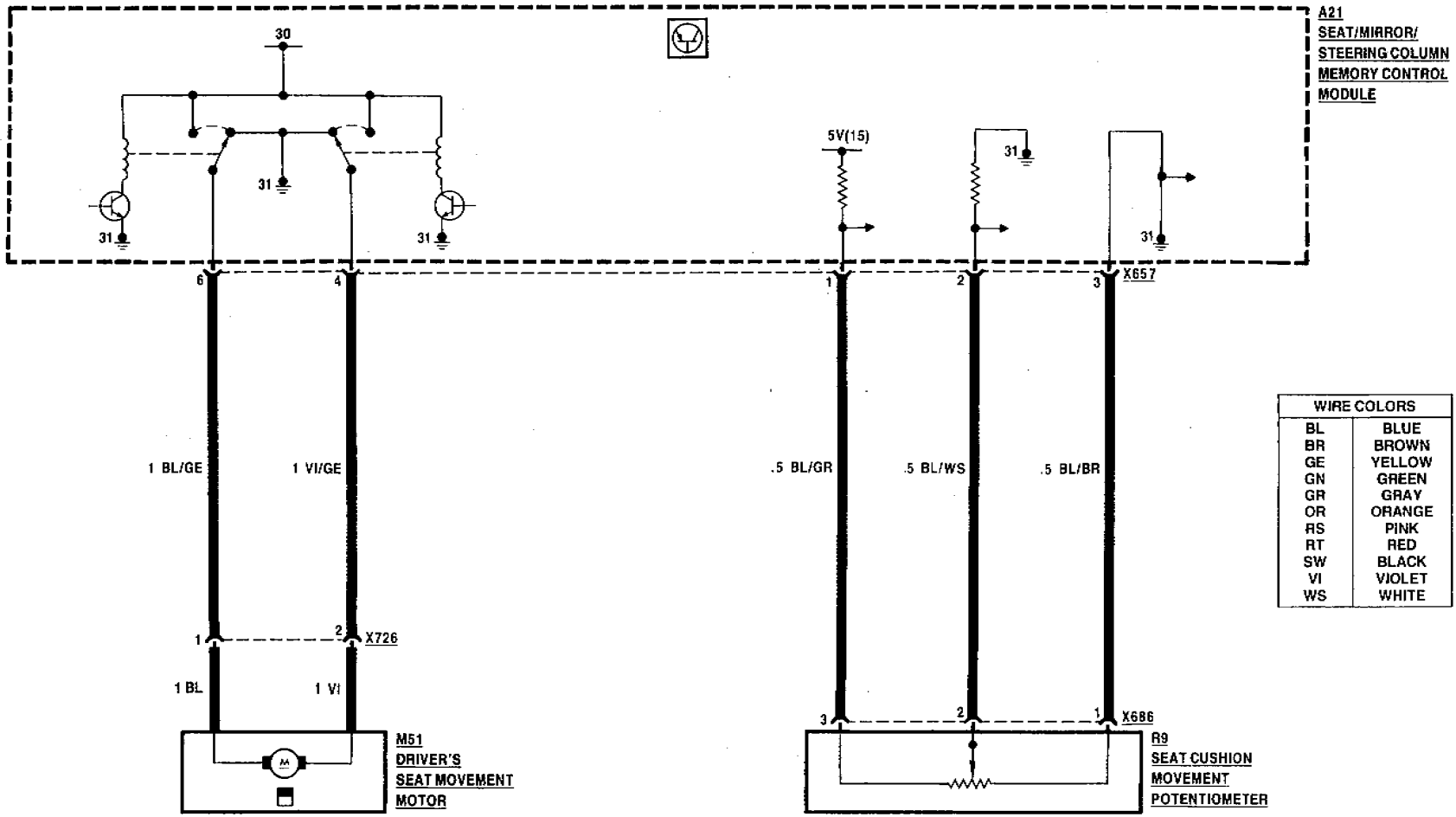


# SEAT MEMORY

## EARLY PRODUCTION

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







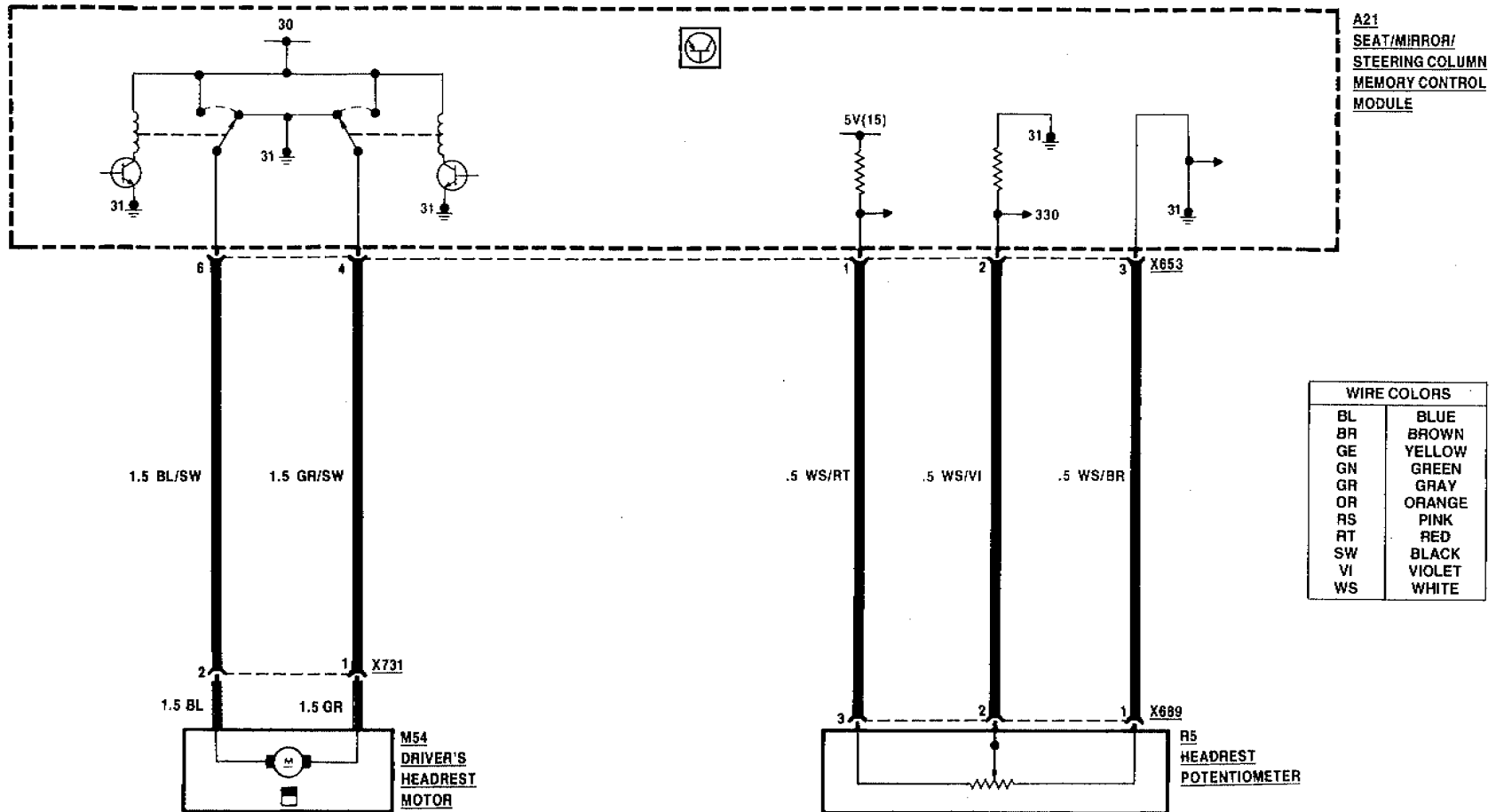
# SEAT MEMORY

EARLY PRODUCTION

12/93

5201-05

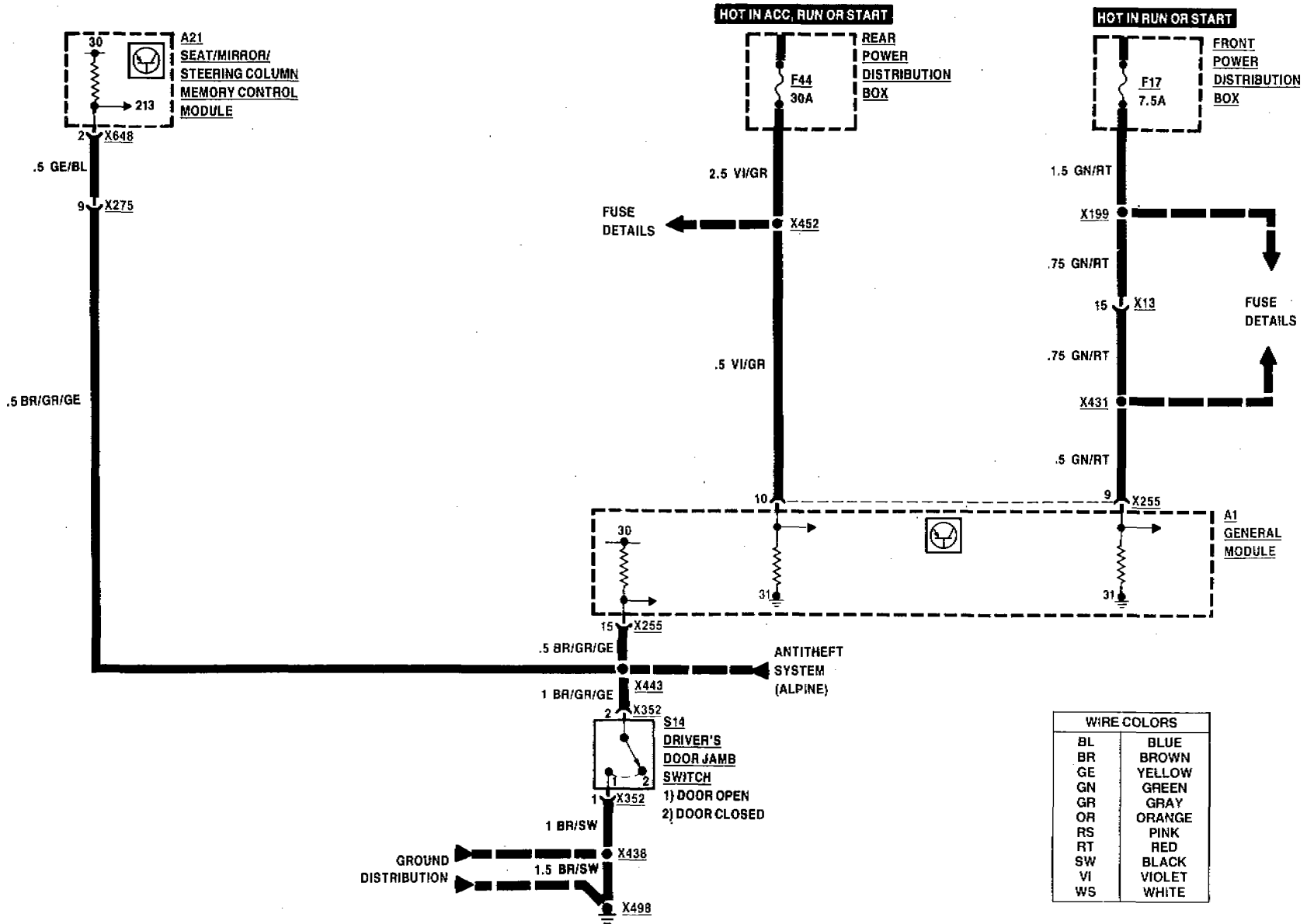
93/94





# SEAT MEMORY

## EARLY PRODUCTION



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

12/93

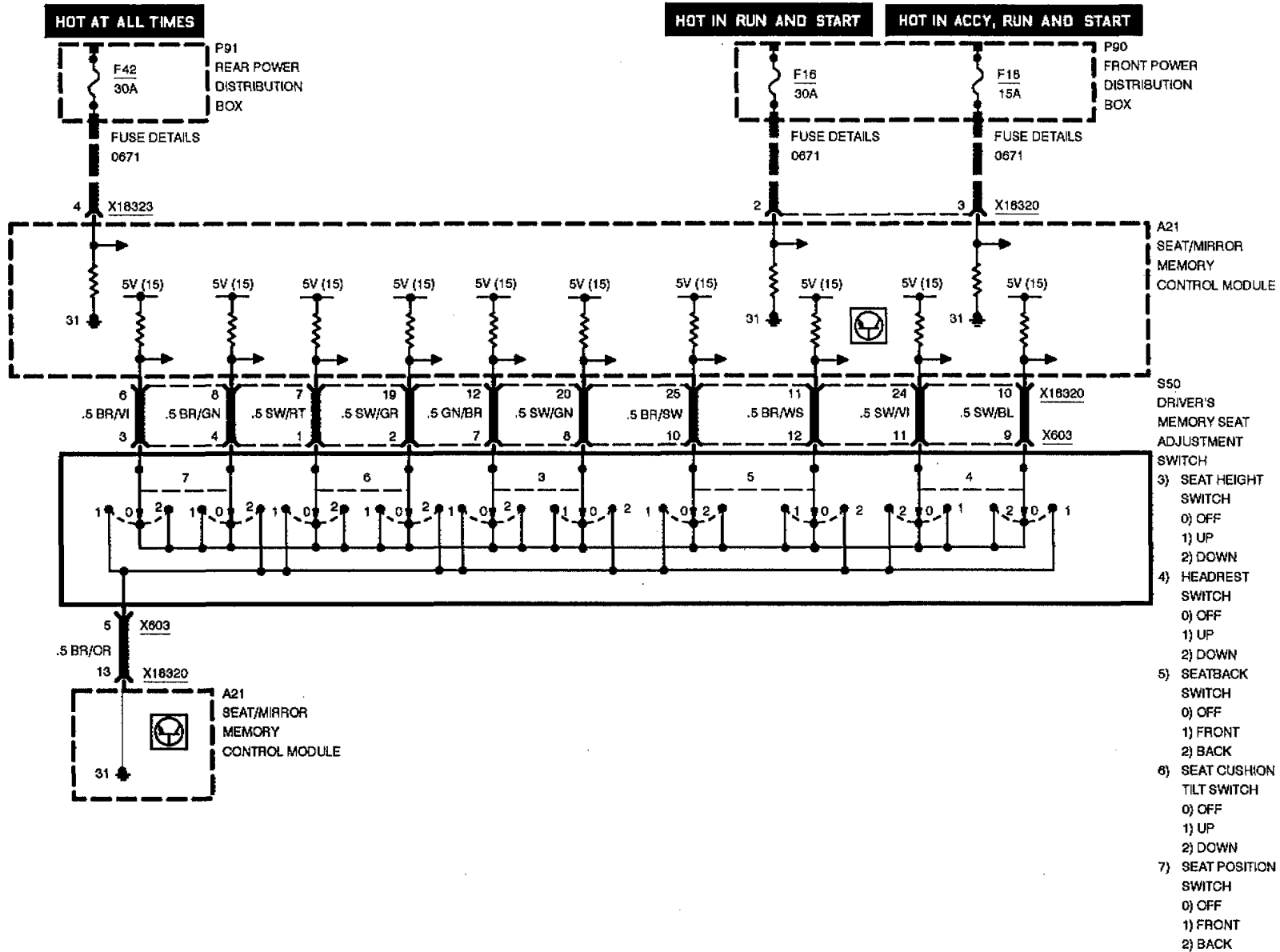
5201-06

93/94



# MEMORY SEAT

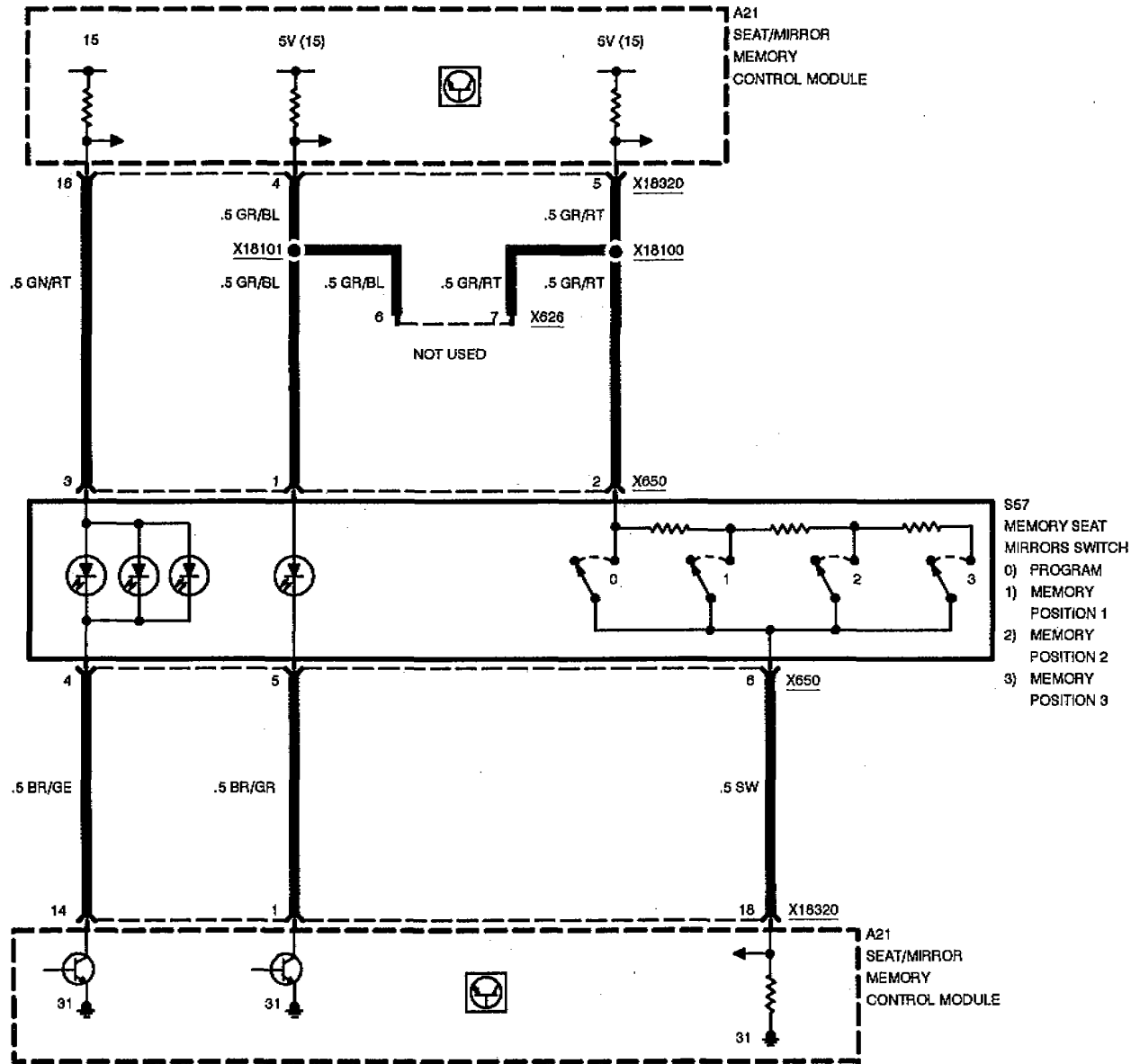
# LATE PRODUCTION





# MEMORY SEAT

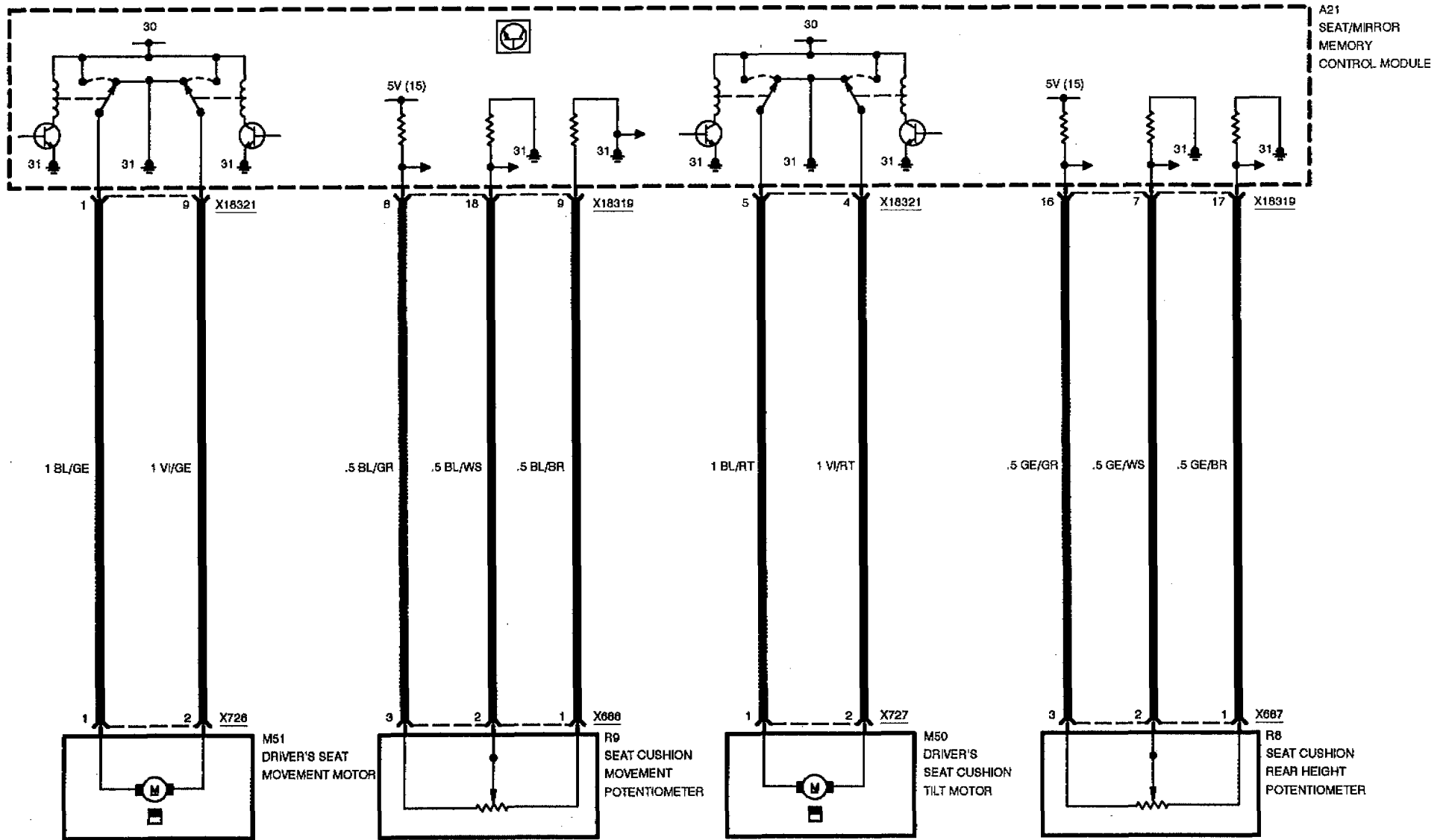
## LATE PRODUCTION





**MEMORY SEAT SEAT**

**LATE PRODUCTION**

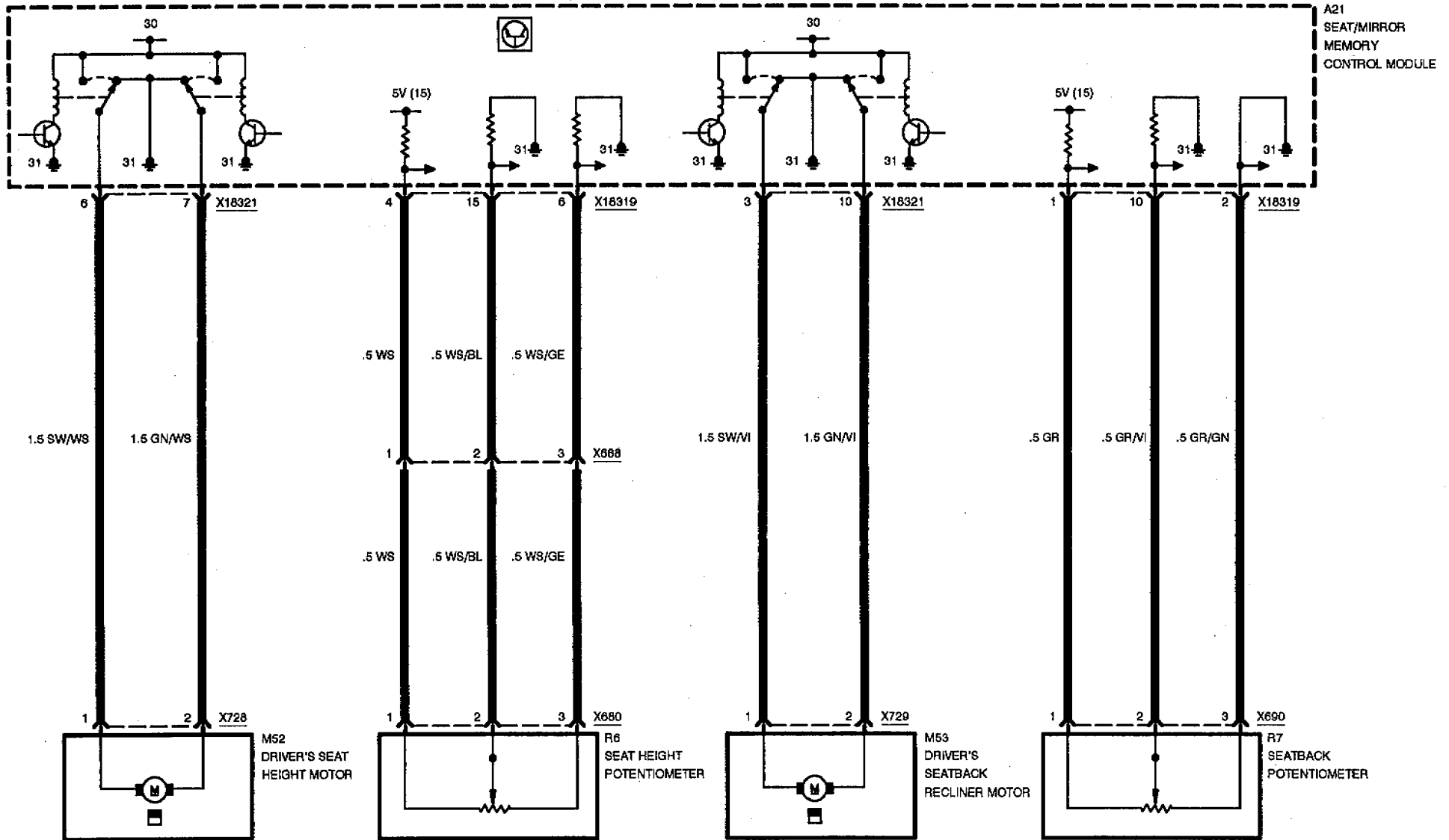






# MEMORY SEAT SEAT

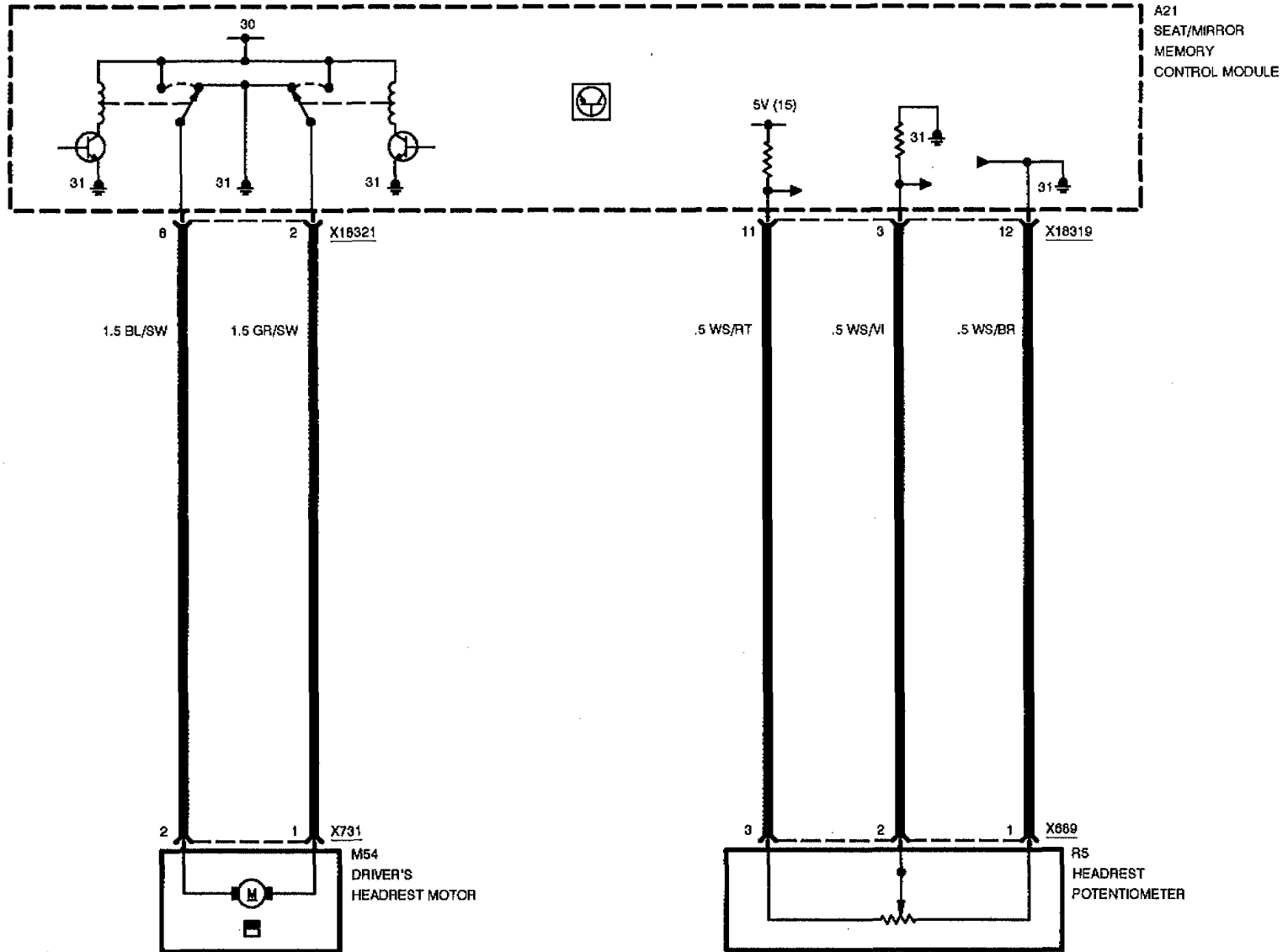
LATE PRODUCTION





# MEMORY SEAT SEAT

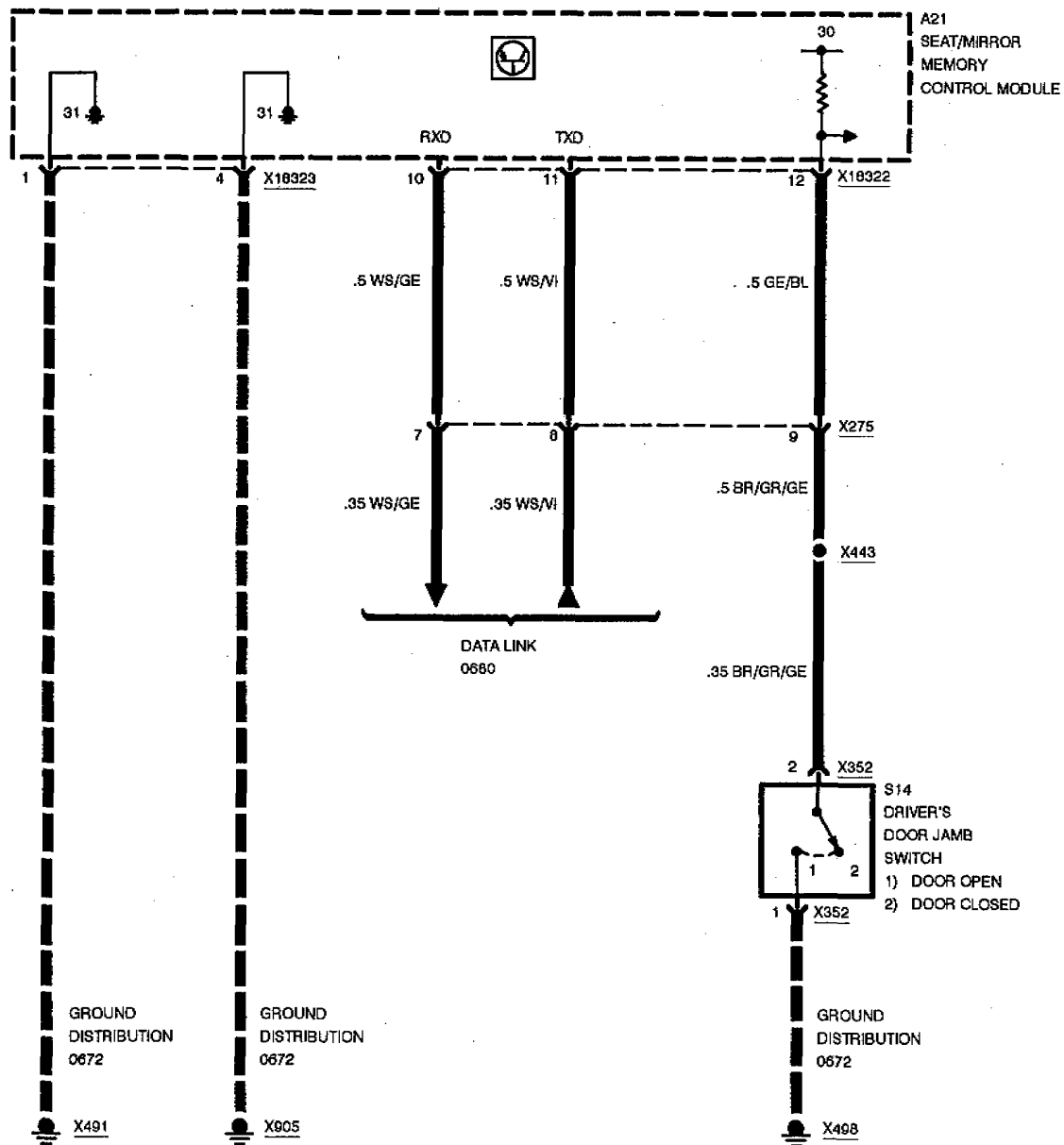
LATE PRODUCTION





# MEMORY SEAT

## LATE PRODUCTION



12/93

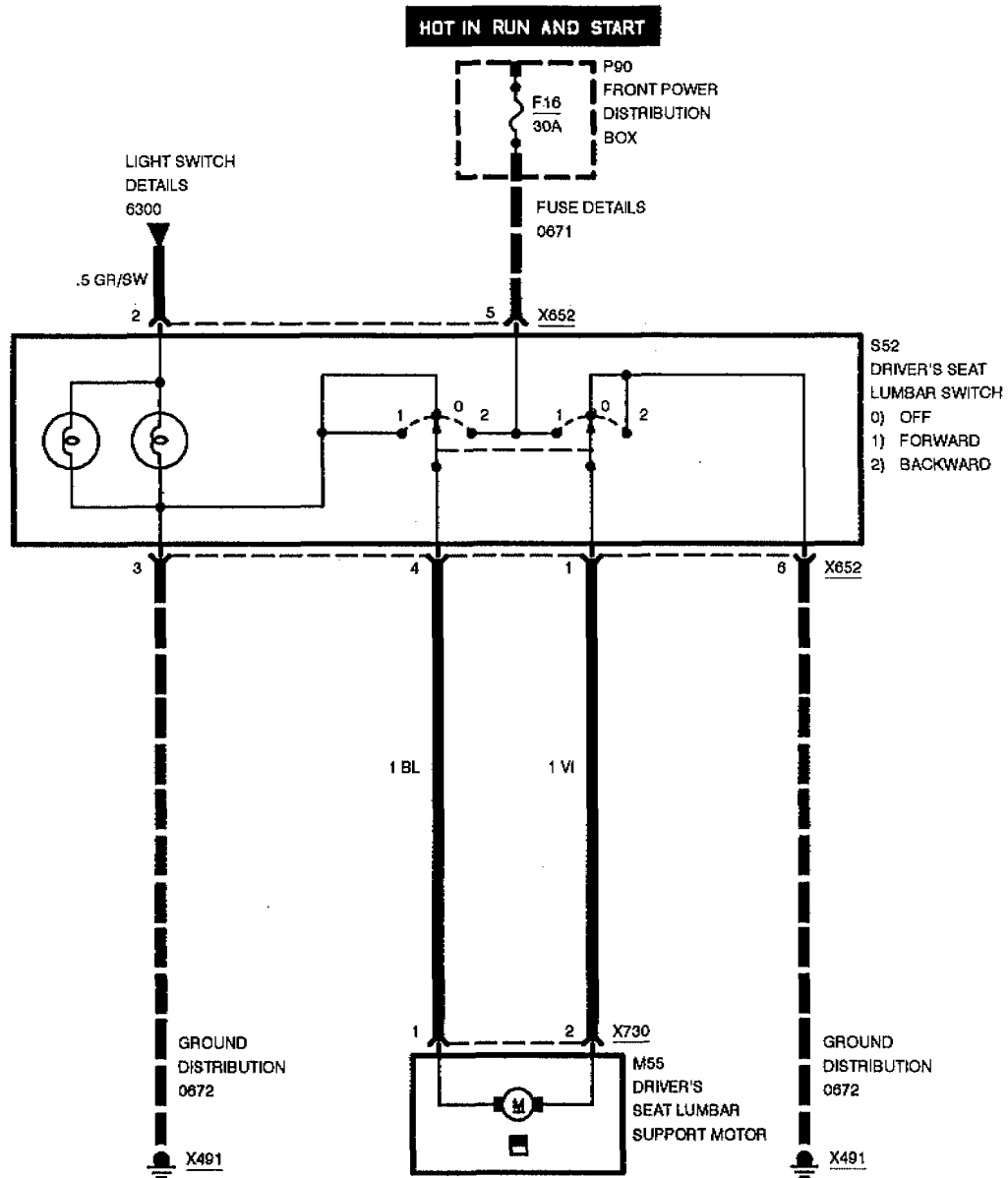
5201-12

93/94



# MEMORY SEAT

LATE PRODUCTION

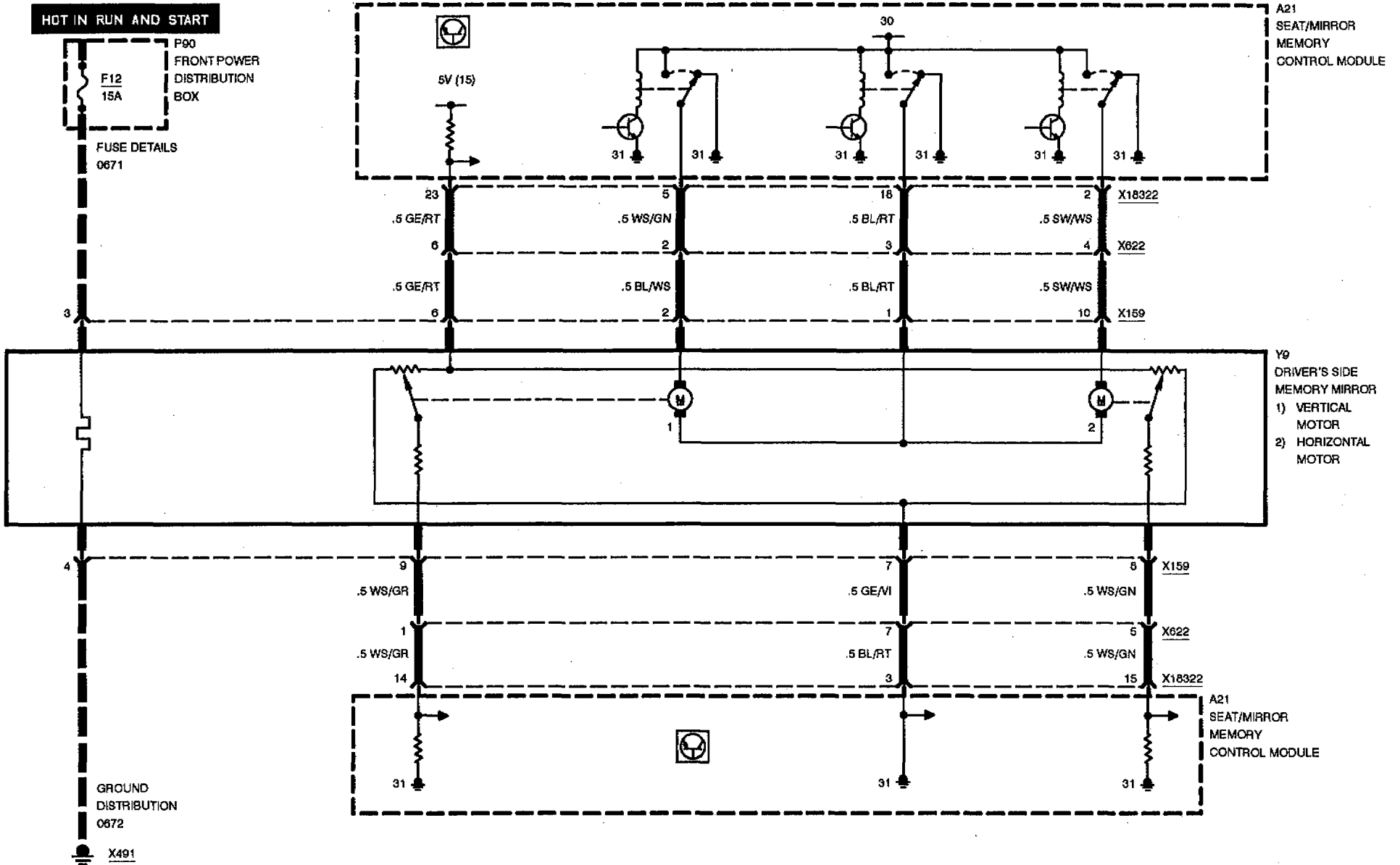




# MEMORY SEAT MIRROR

LATE PRODUCTION

HOT IN RUN AND START



A21  
SEAT/MIRROR  
MEMORY  
CONTROL MODULE

Y9  
DRIVER'S SIDE  
MEMORY MIRROR  
1) VERTICAL  
MOTOR  
2) HORIZONTAL  
MOTOR

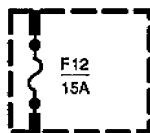
A21  
SEAT/MIRROR  
MEMORY  
CONTROL MODULE



# MEMORY SEAT MIRROR

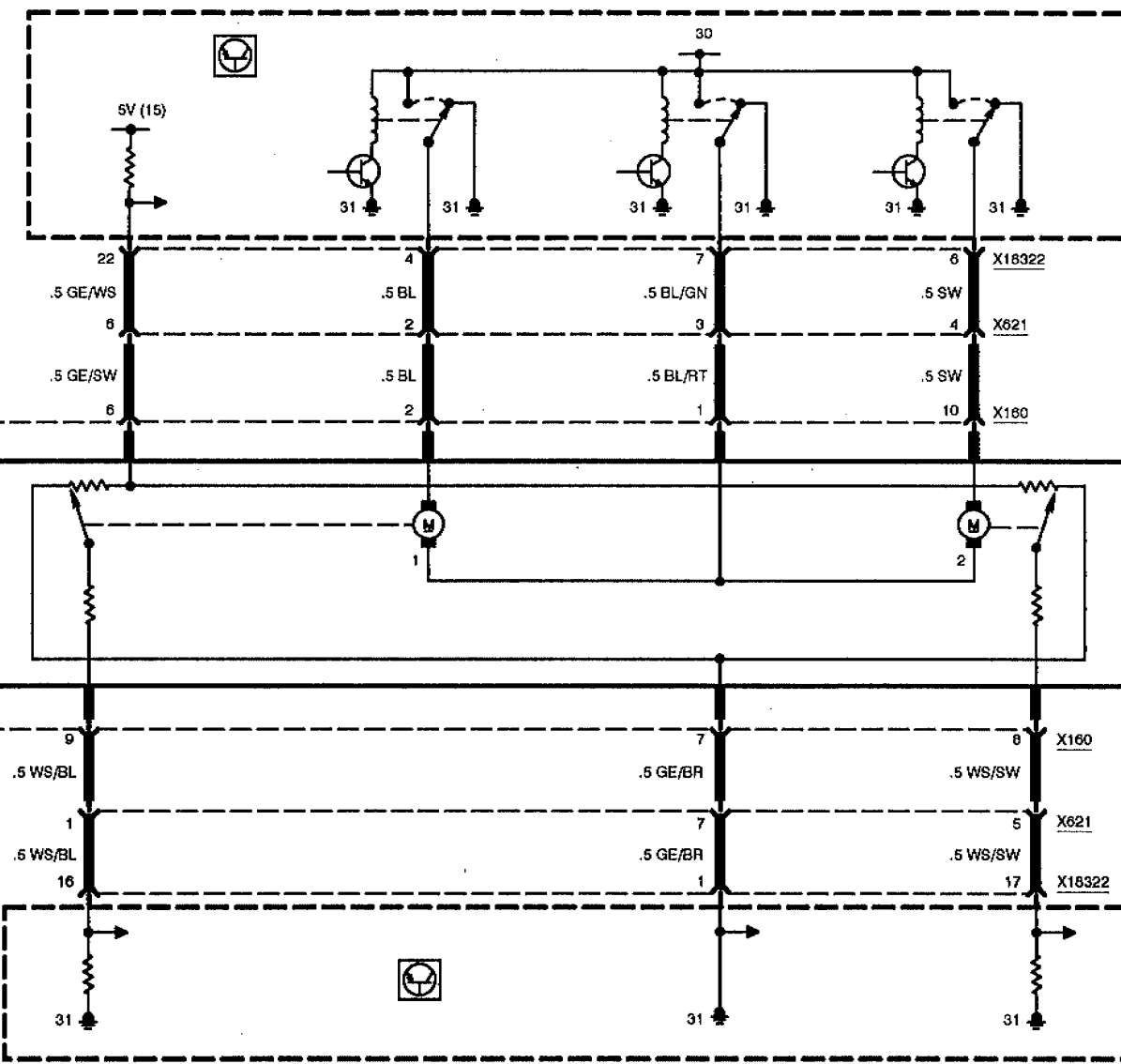
LATE PRODUCTION

HOT IN RUN AND START



P90  
FRONT POWER  
DISTRIBUTION  
BOX

FUSE DETAILS  
0671



A21  
SEAT/MIRROR  
MEMORY  
CONTROL MODULE

Y10  
PASSENGER'S  
SIDE MEMORY  
MIRROR  
1) VERTICAL  
MOTOR  
2) HORIZONTAL  
MOTOR

A21  
SEAT/MIRROR  
MEMORY  
CONTROL MODULE

GROUND  
DISTRIBUTION  
0672

X494



# MEMORY SEAT

# LATE PRODUCTION

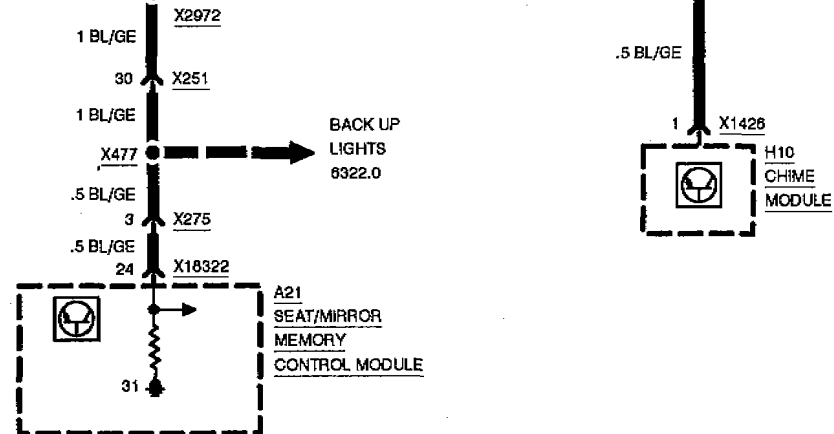
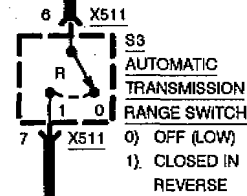
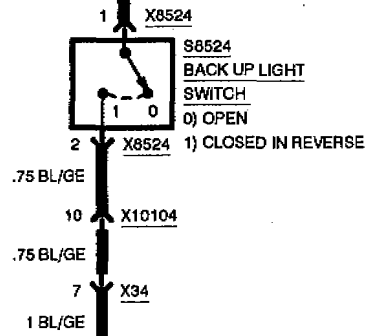
**HOT IN RUN AND START**

P90  
FRONT POWER  
DISTRIBUTION  
BOX

FUSE DETAILS  
0671

740i/L MANUAL  
TRANSMISSION

AUTOMATIC  
TRANSMISSION

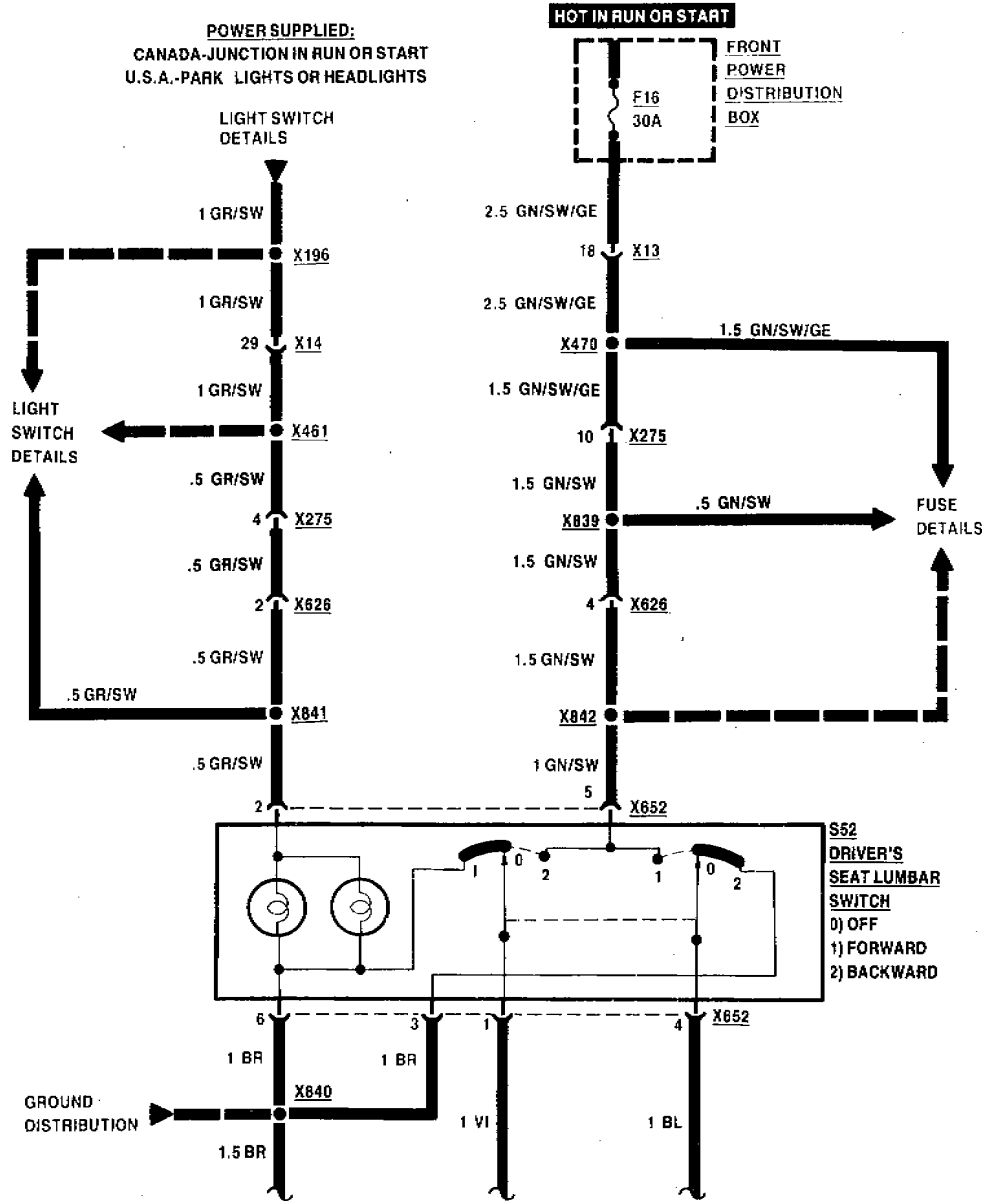


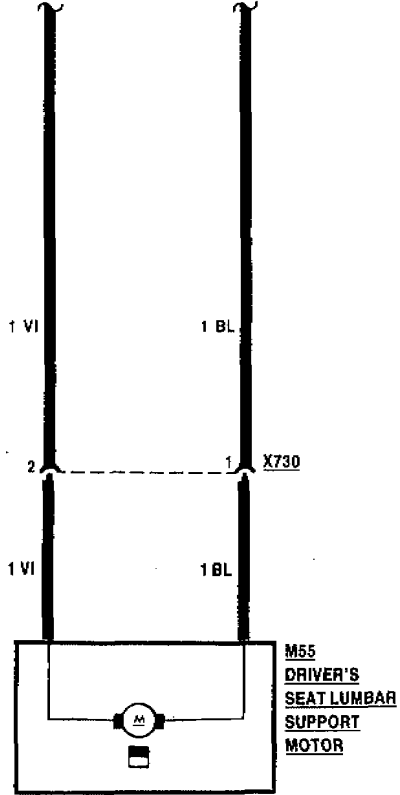
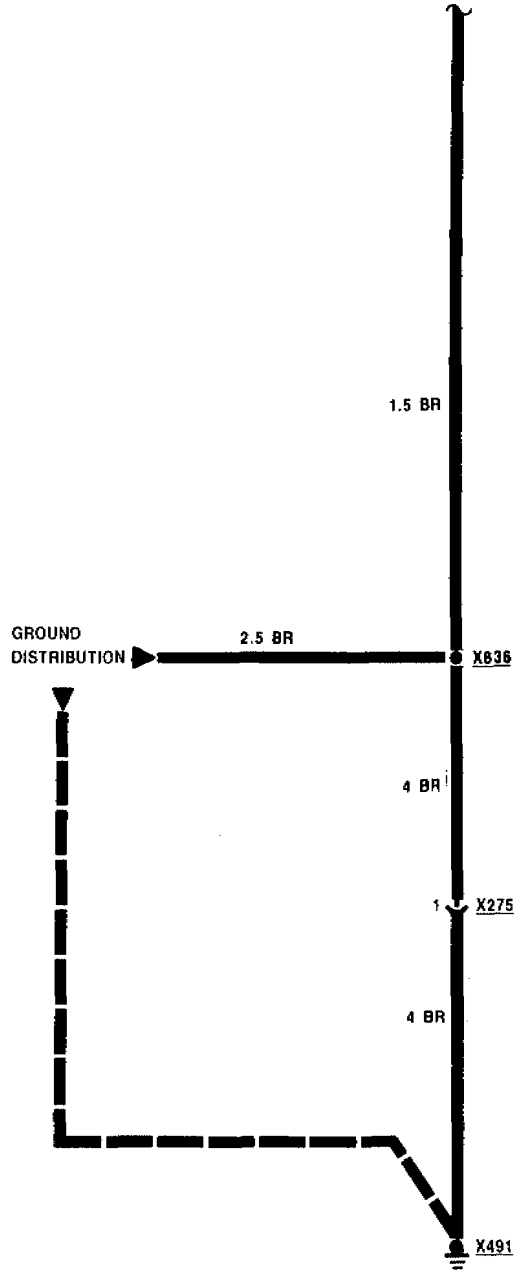






# LUMBAR SUPPORT DRIVER'S SEAT WITH MEMORY



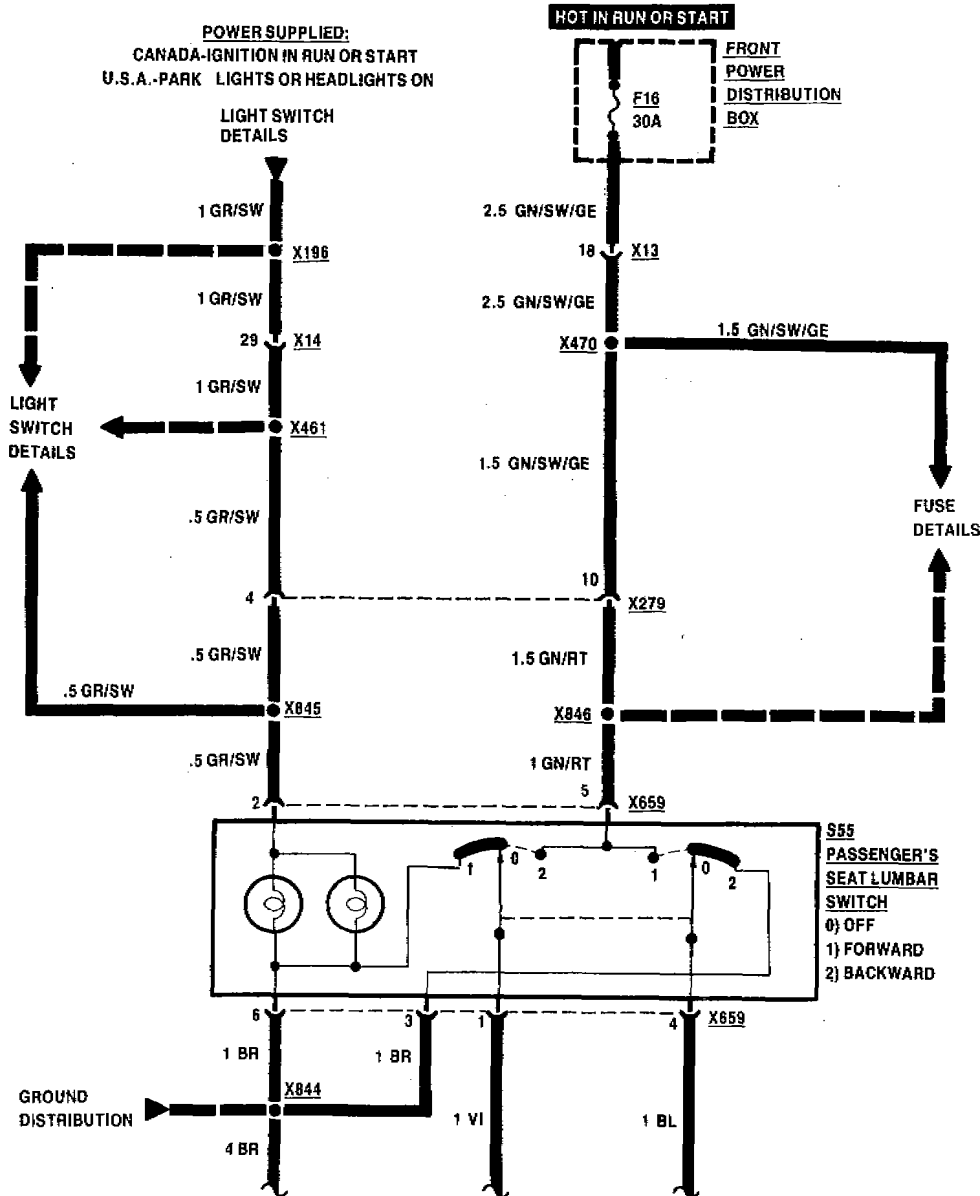


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# LUMBAR SUPPORT PASSENGER'S SEAT

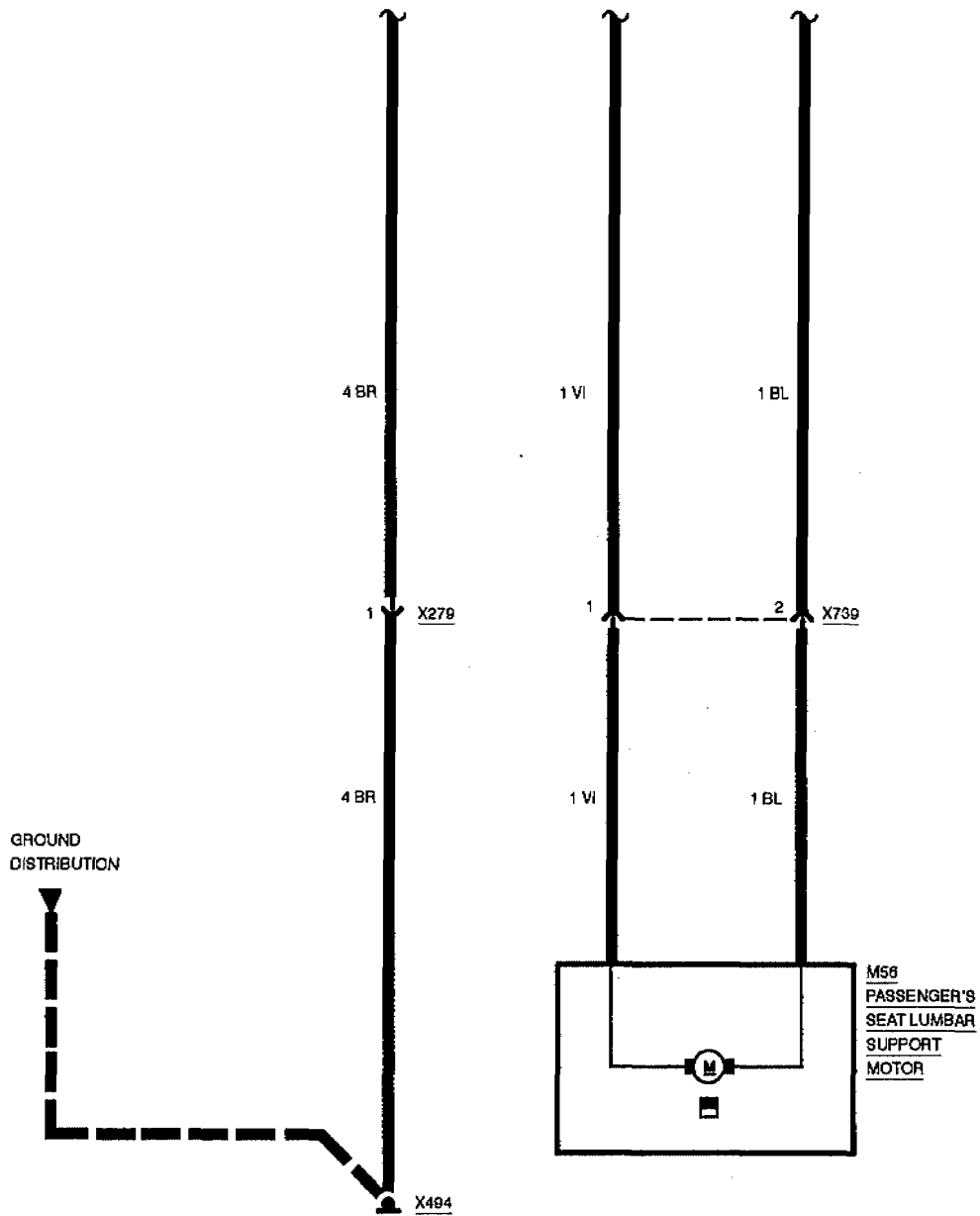
750iL



12/93

5202-02

93/94

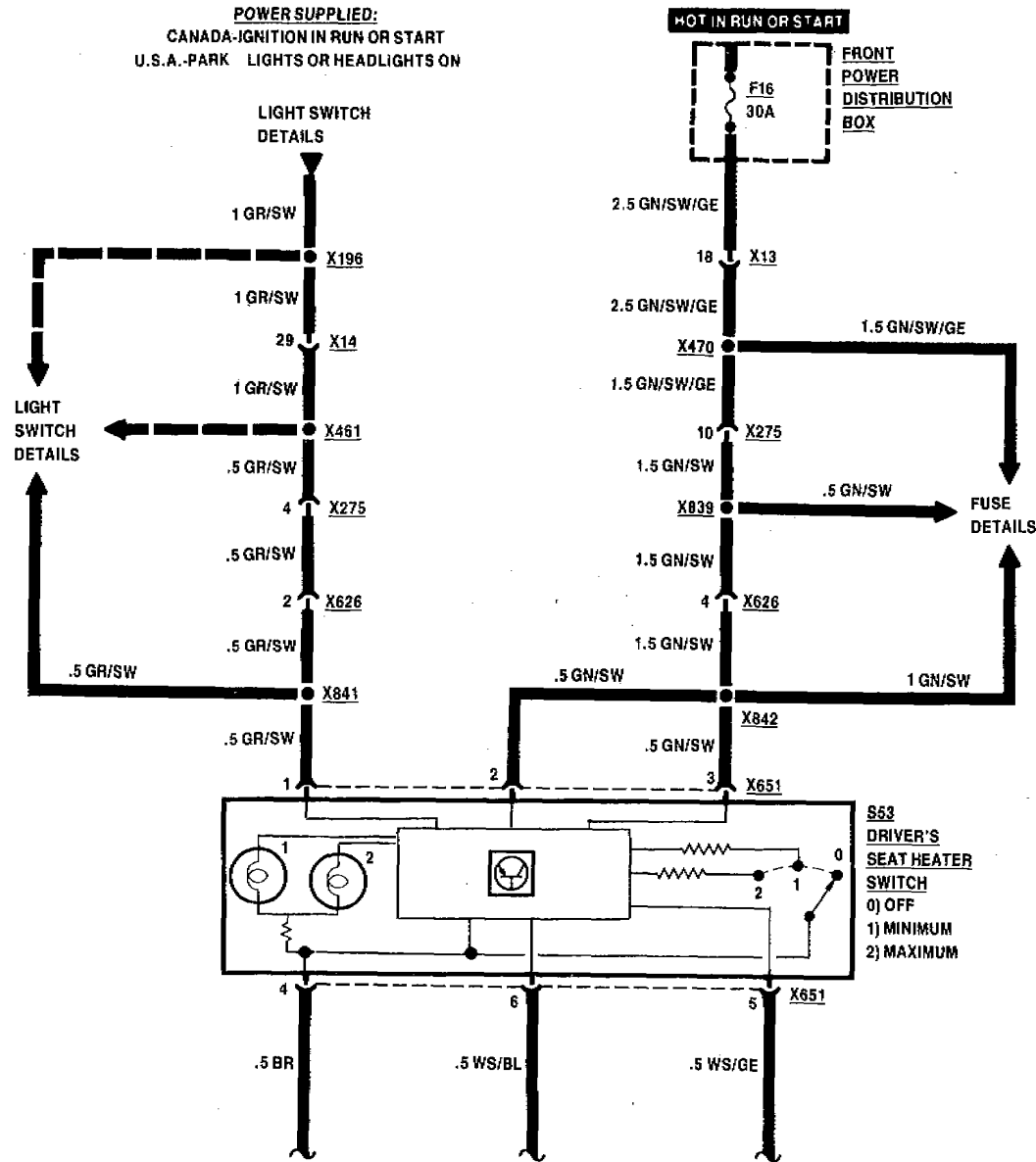


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# HEATED SEATS

## DRIVER'S SEAT WITH MEMORY

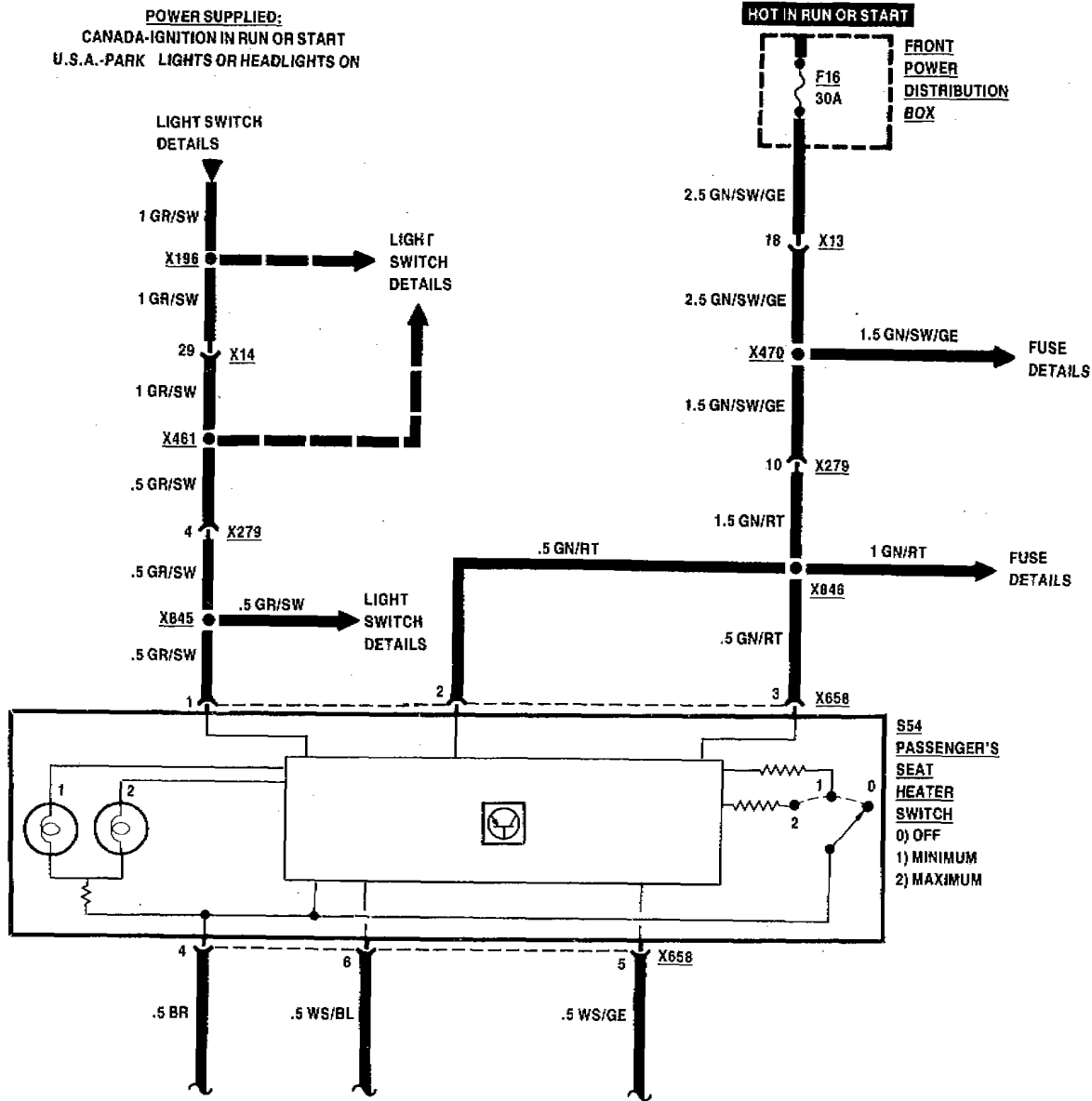






# HEATED SEATS

## PASSENGER'S SEAT





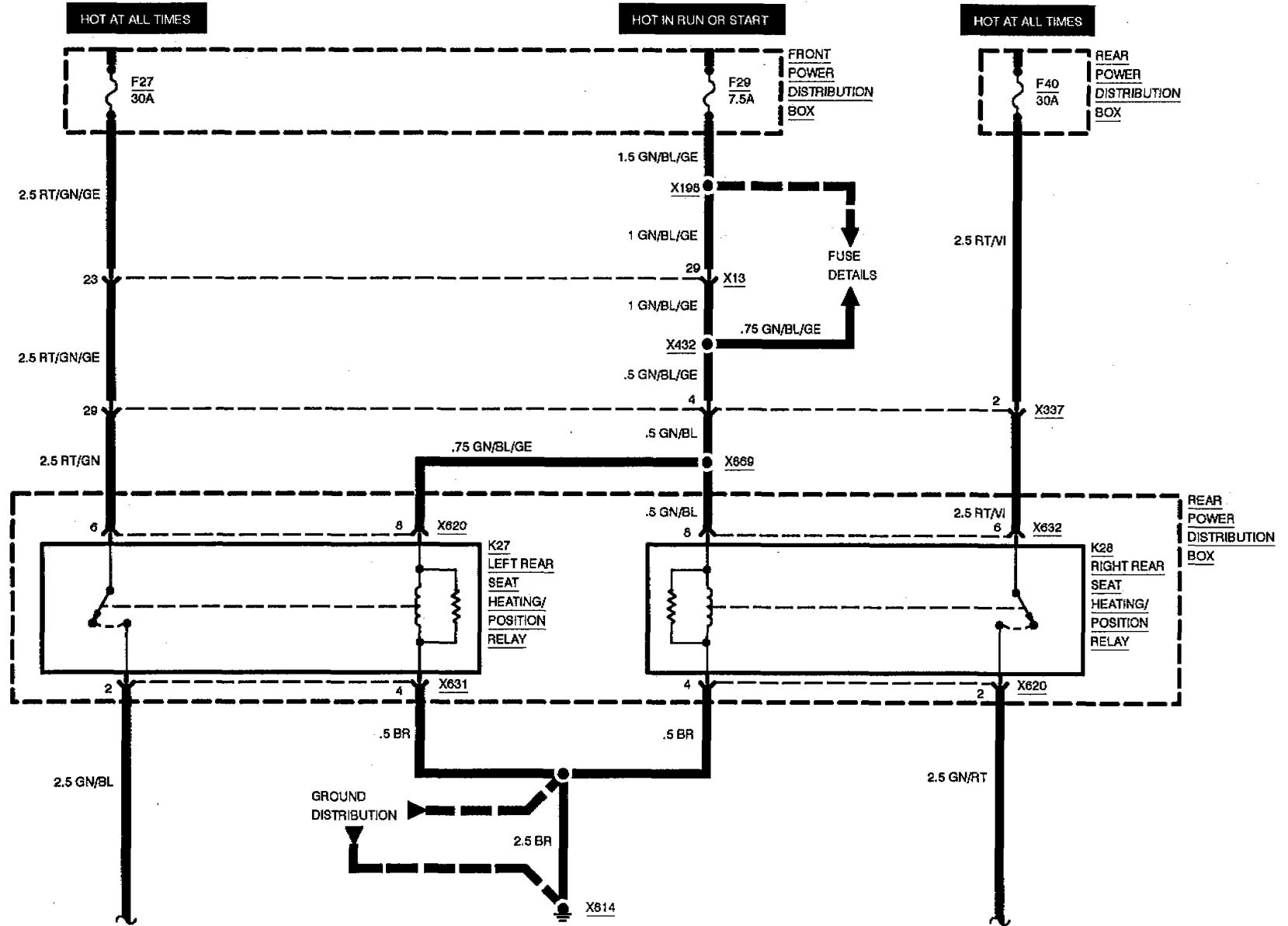




# HEATED SEATS

## REAR - WITH POWER REAR SEATS

750iL



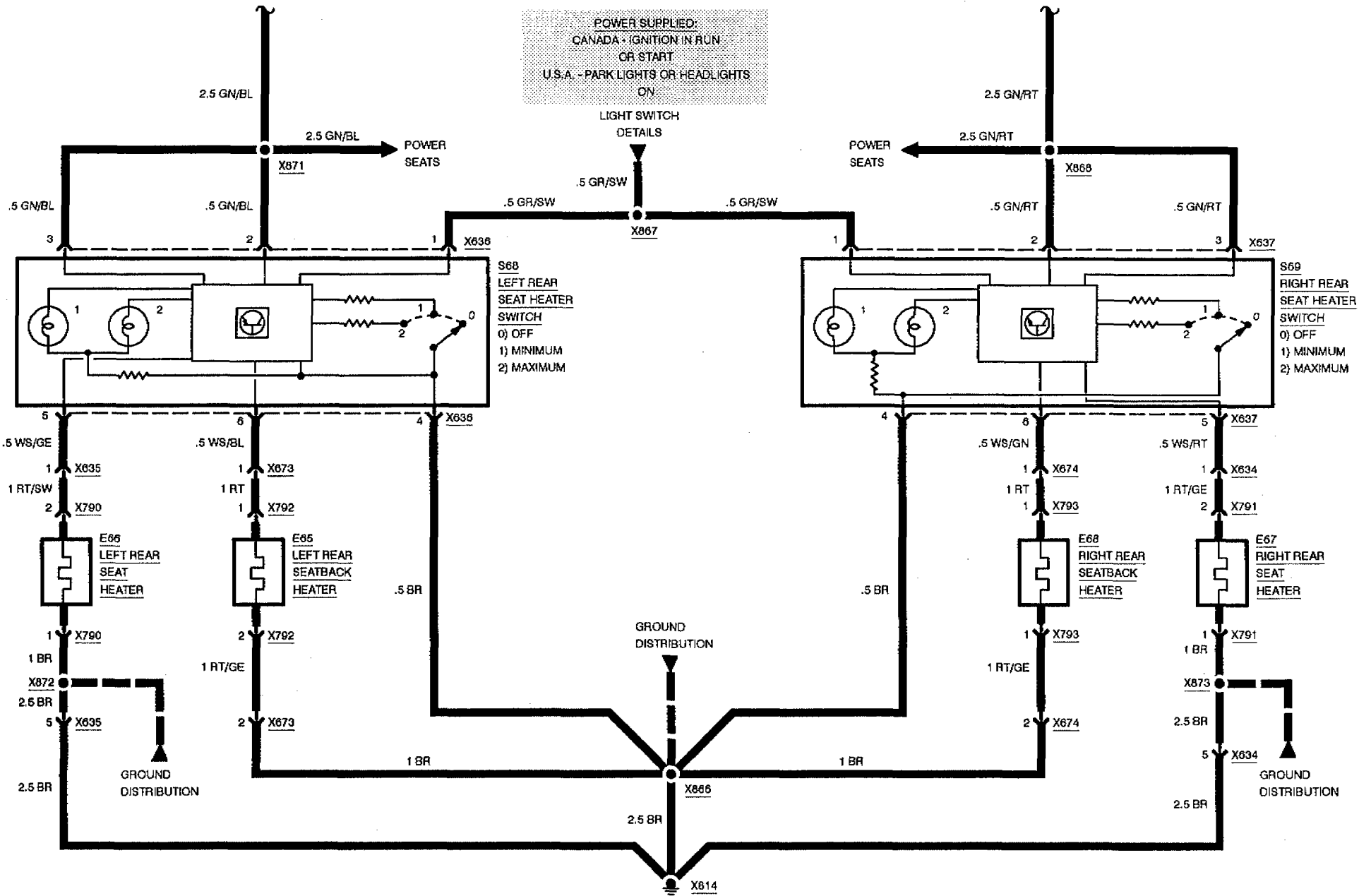
WIRE	
BC	COLORS
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

12/93

5203-04

93/94

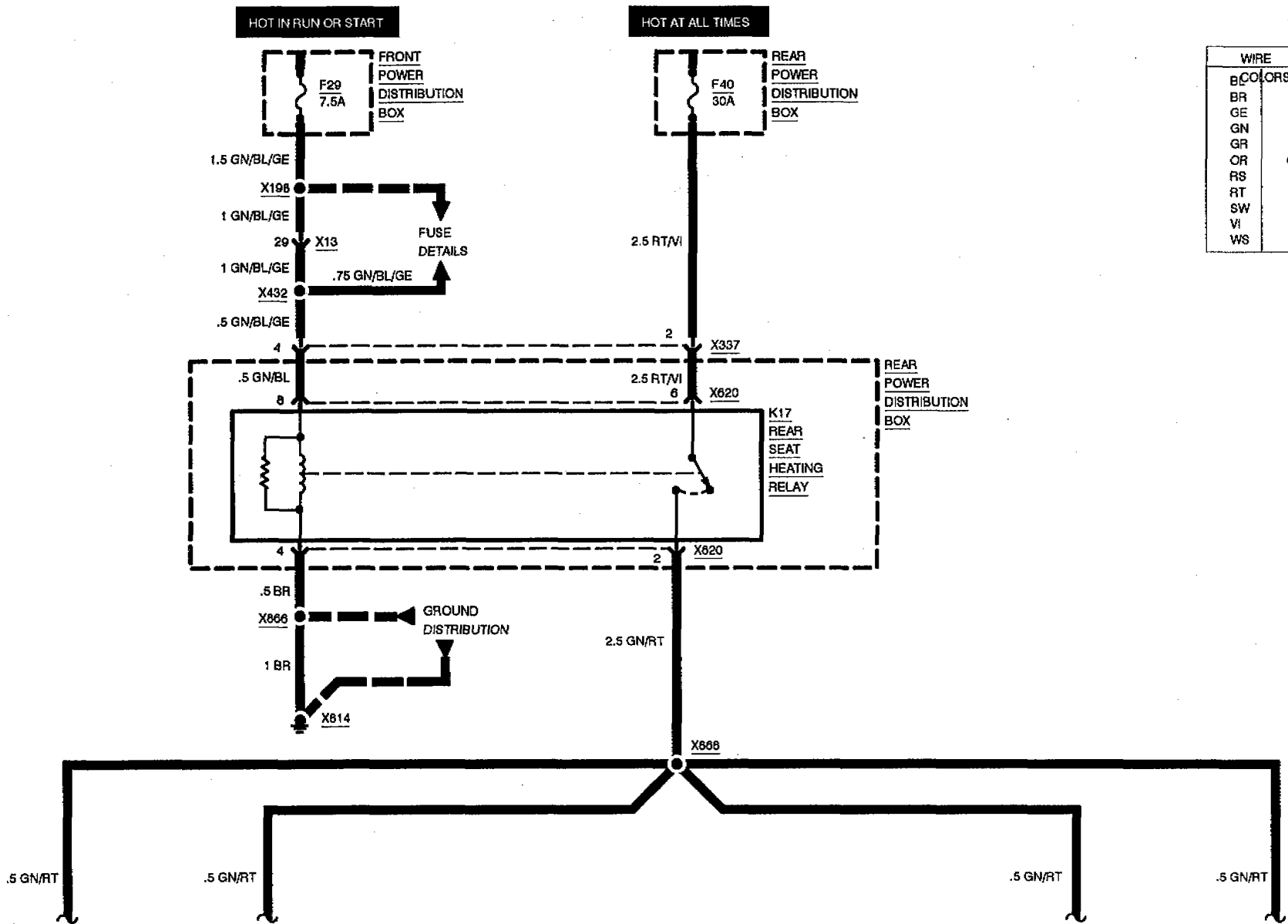
POWER SUPPLIED:  
CANADA - IGNITION IN RUN  
OR START  
U.S.A. - PARK LIGHTS OR HEADLIGHTS  
ON





# HEATED SEATS

## REAR - HEATED SEATS ONLY

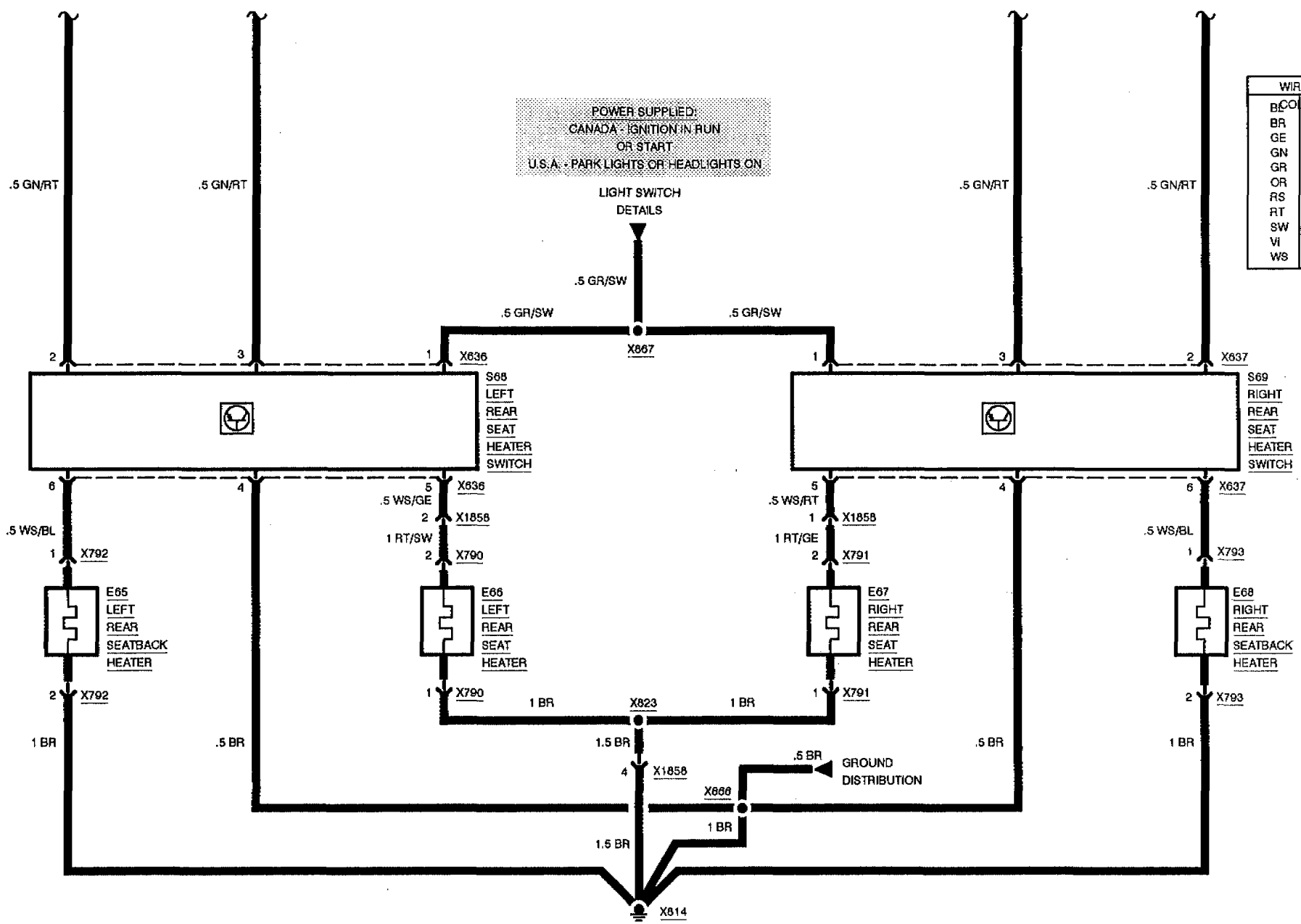


WIRE	
COLORS	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

POWER SUPPLIED:  
 CANADA - IGNITION IN RUN  
 OR START  
 U.S.A. - PARK LIGHTS OR HEADLIGHTS ON

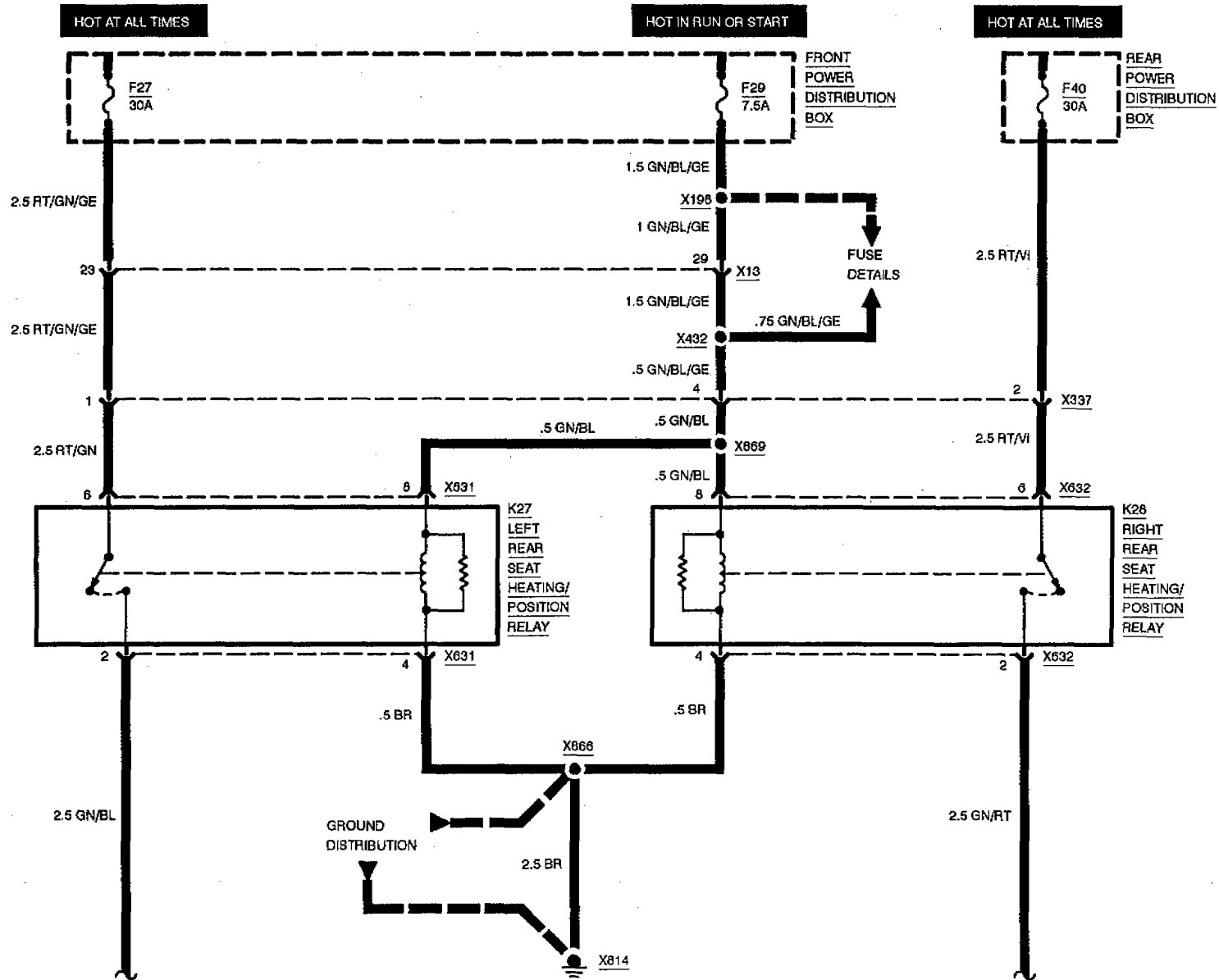
LIGHT SWITCH  
 DETAILS

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

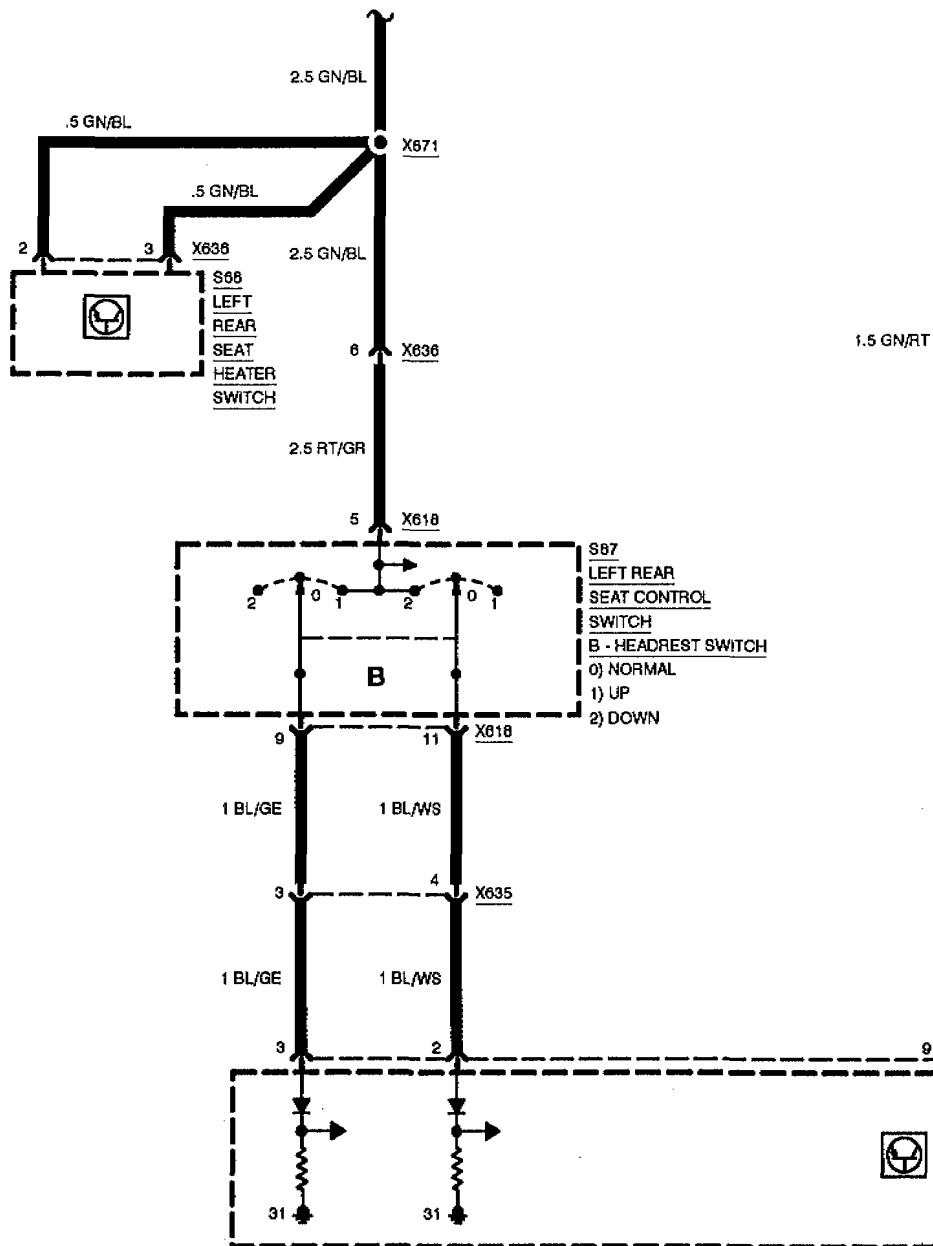




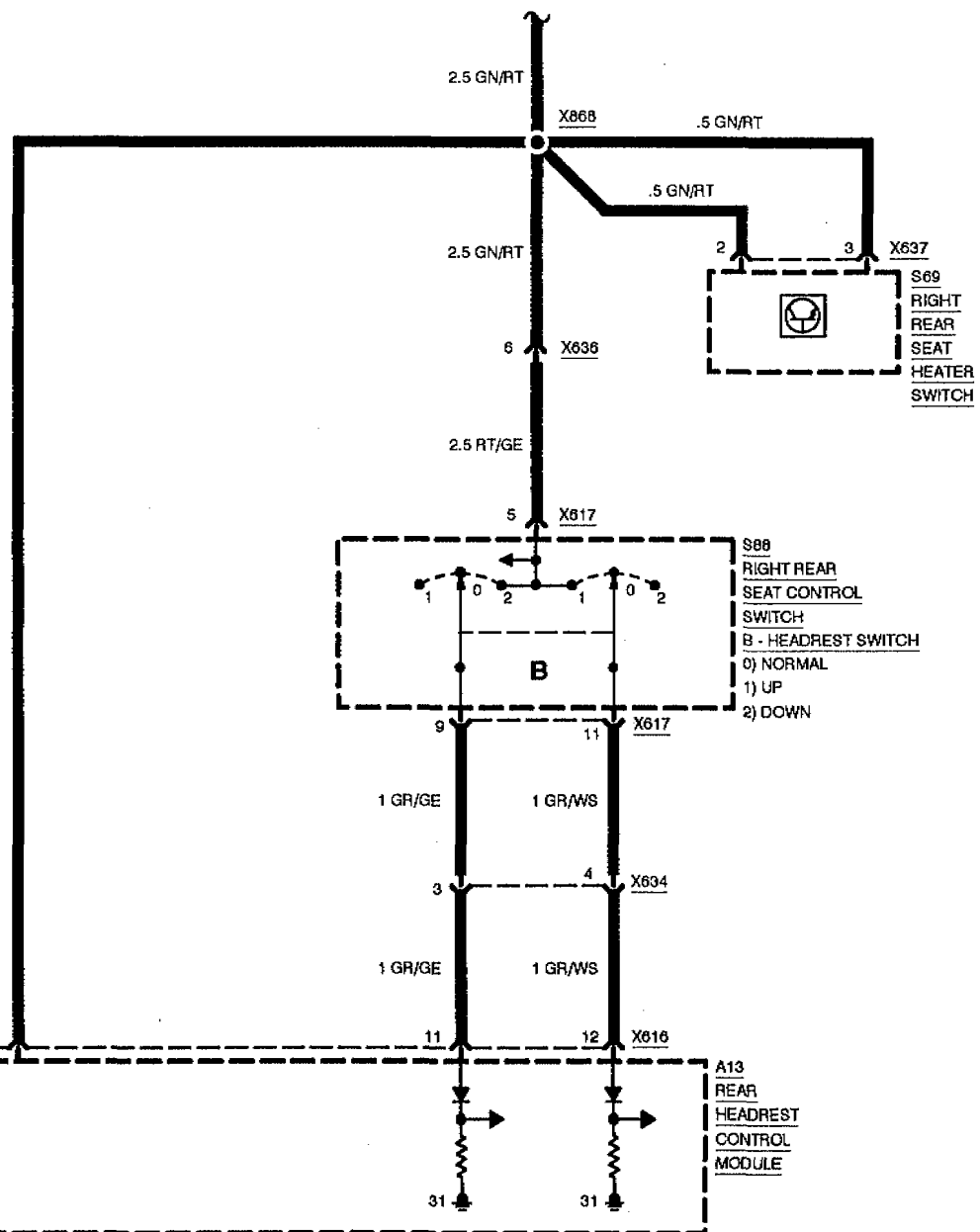
# POWER REAR HEADREST WITH POWER REAR SEATS



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

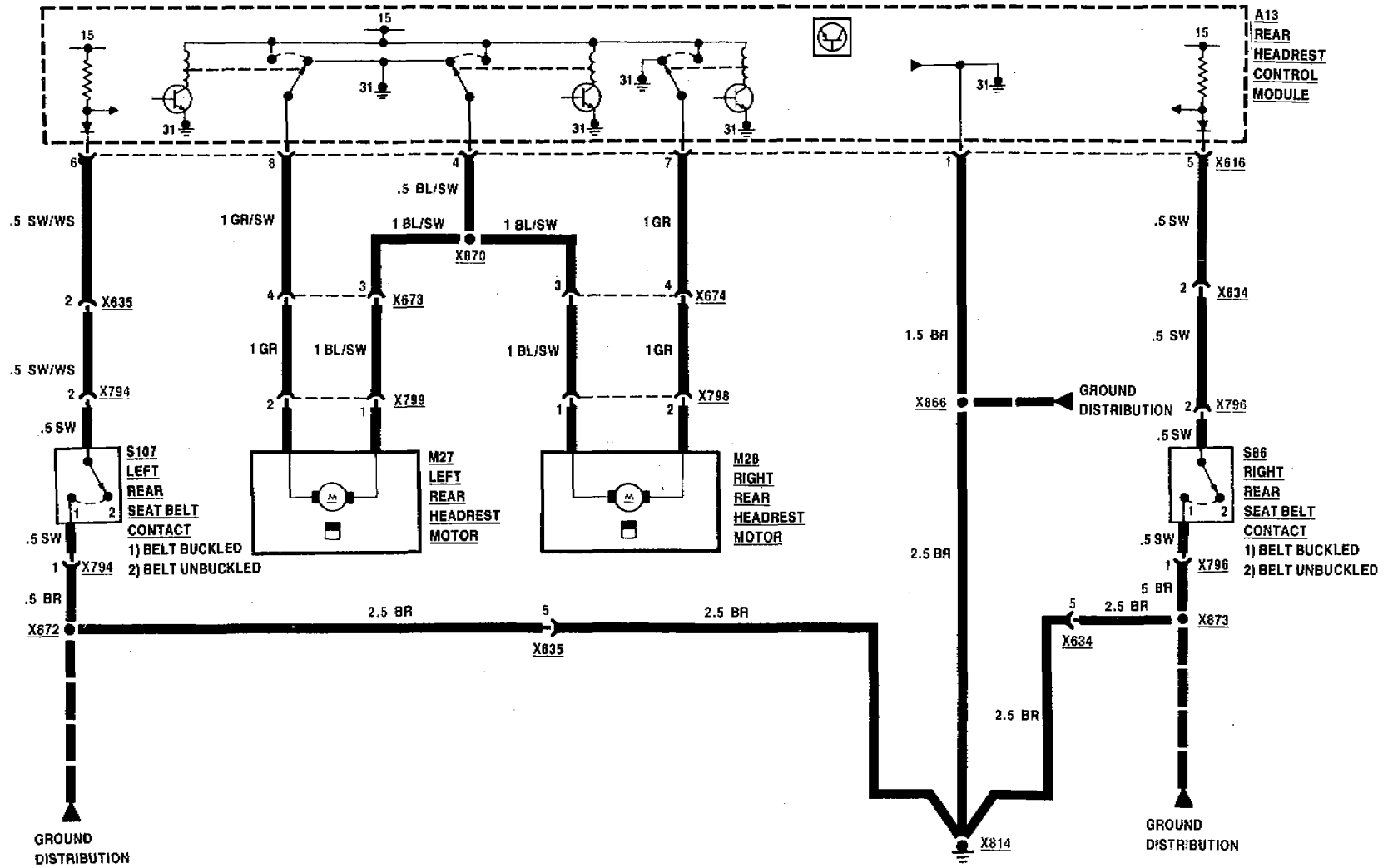


1.5 GN/RT





# POWER REAR HEADREST WITH POWER REAR SEATS



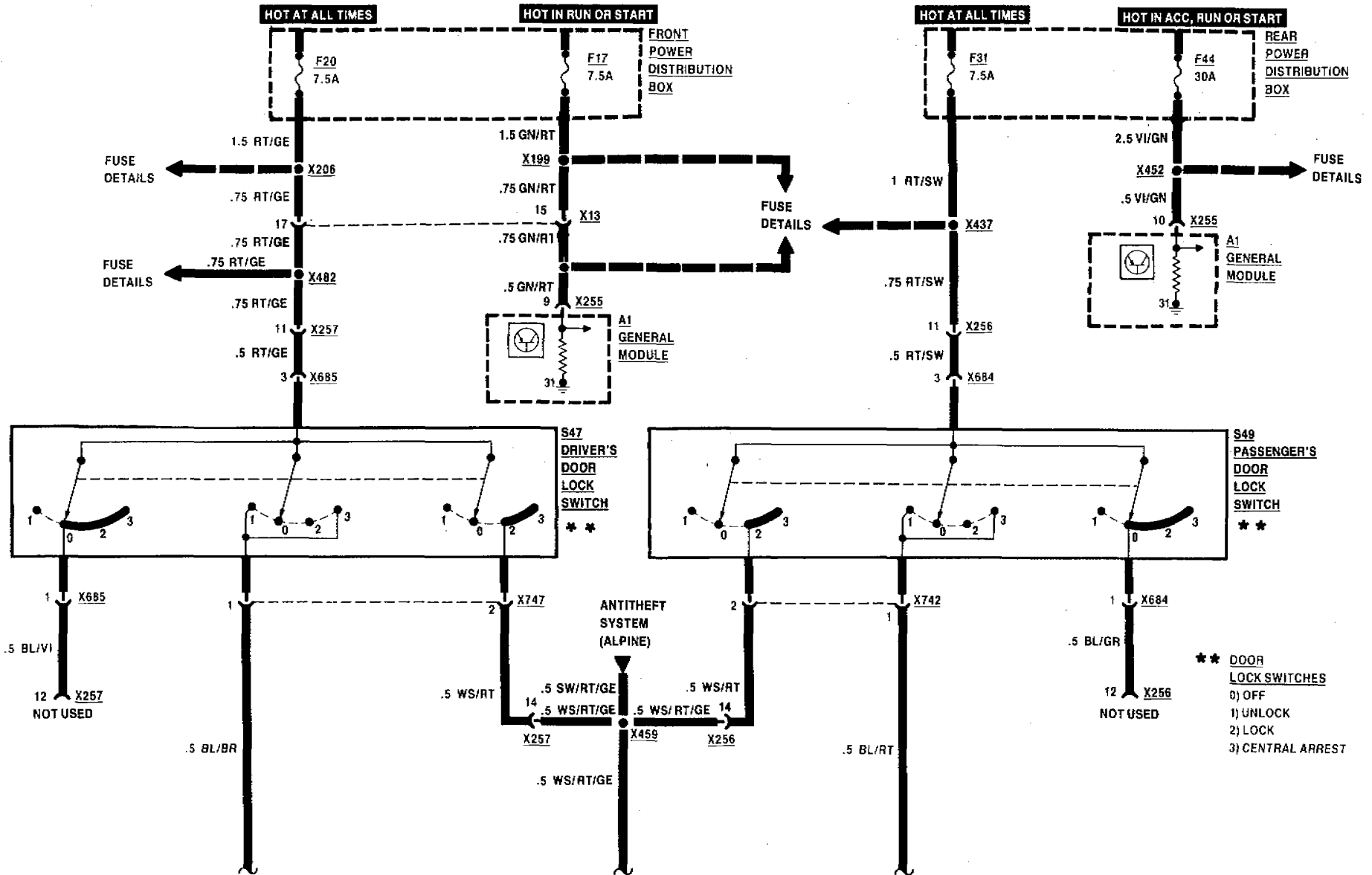


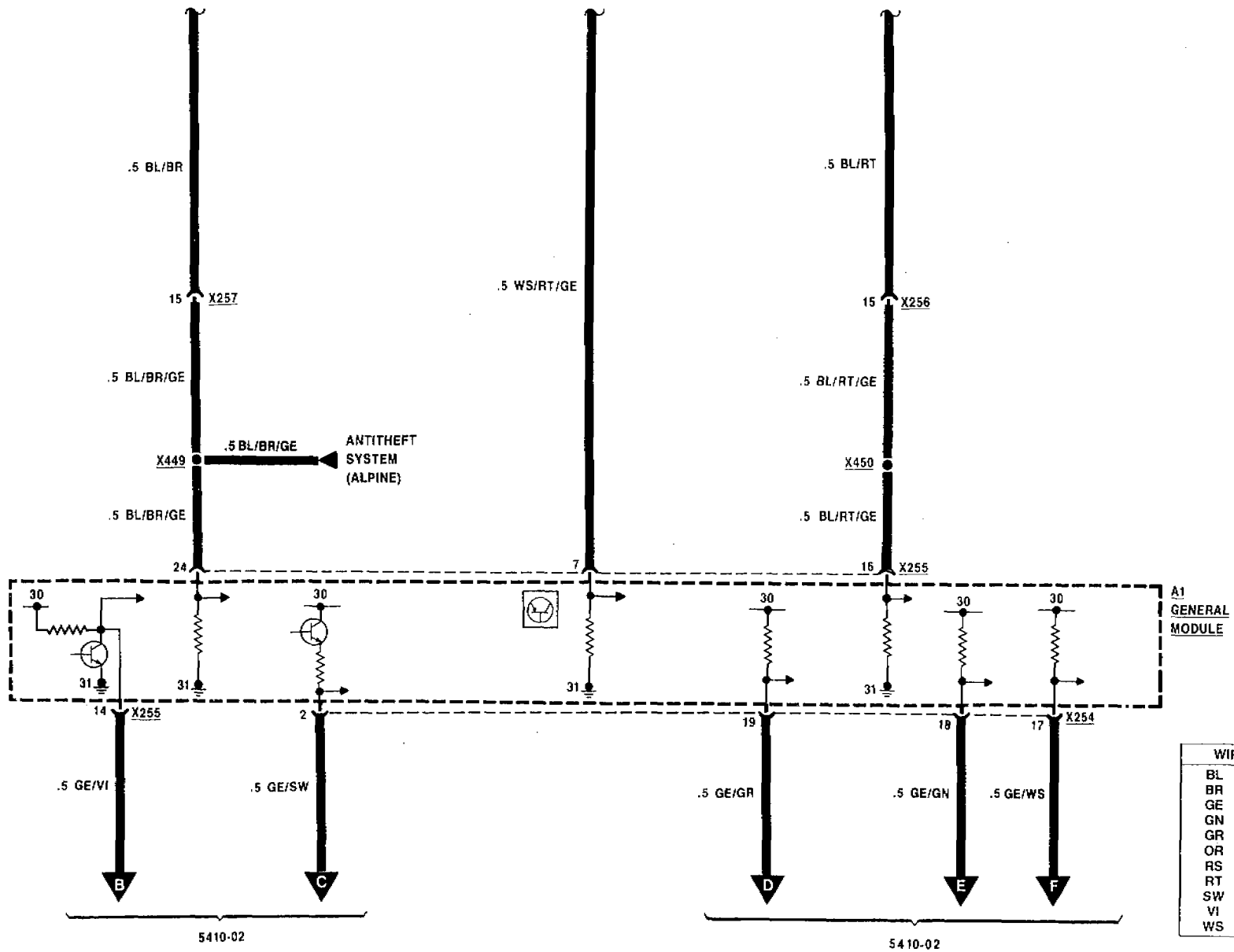




# SUNROOF (ZKE)

## INPUT DETAILS





5410-02

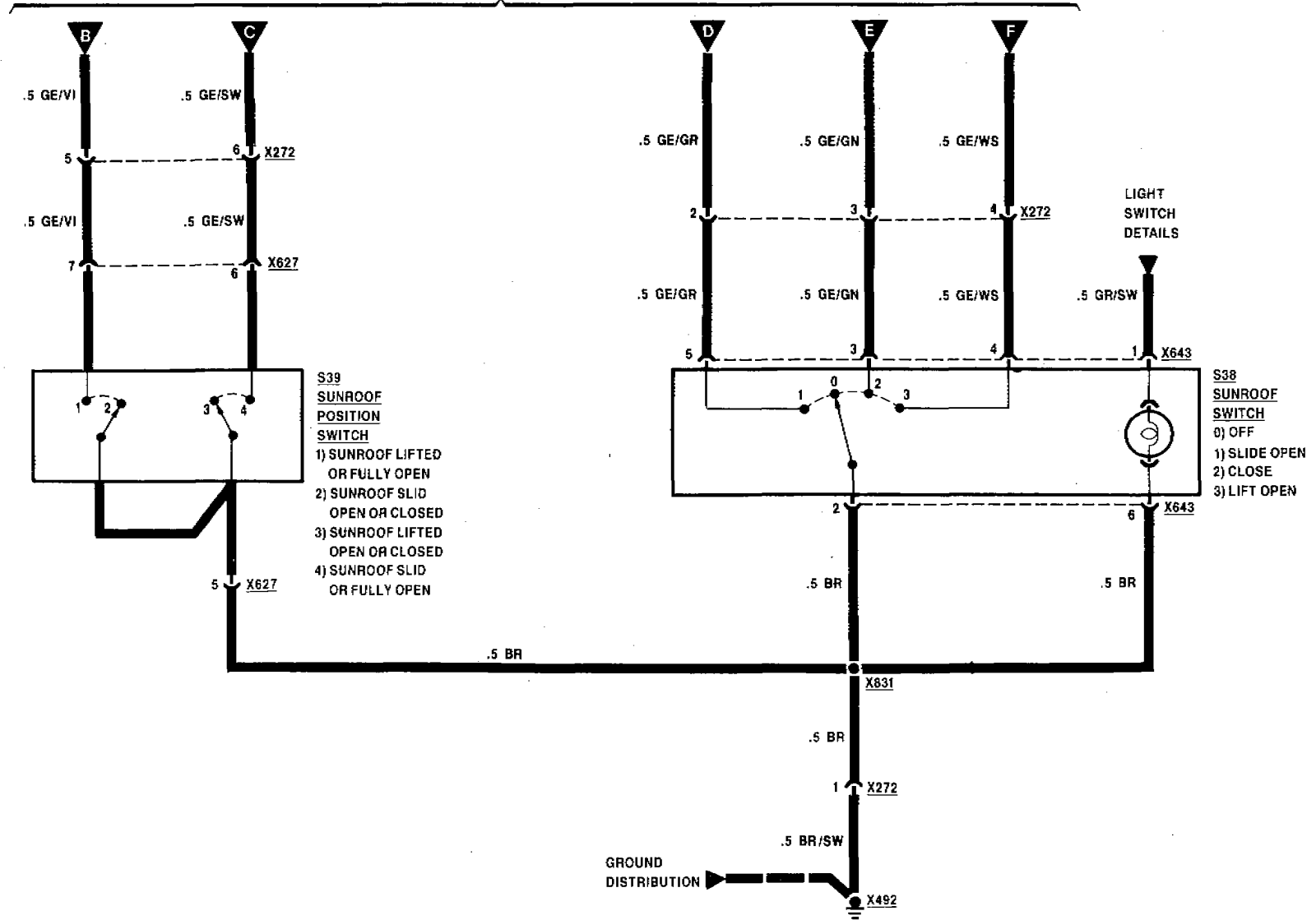
5410-02



# SUNROOF (ZKE)

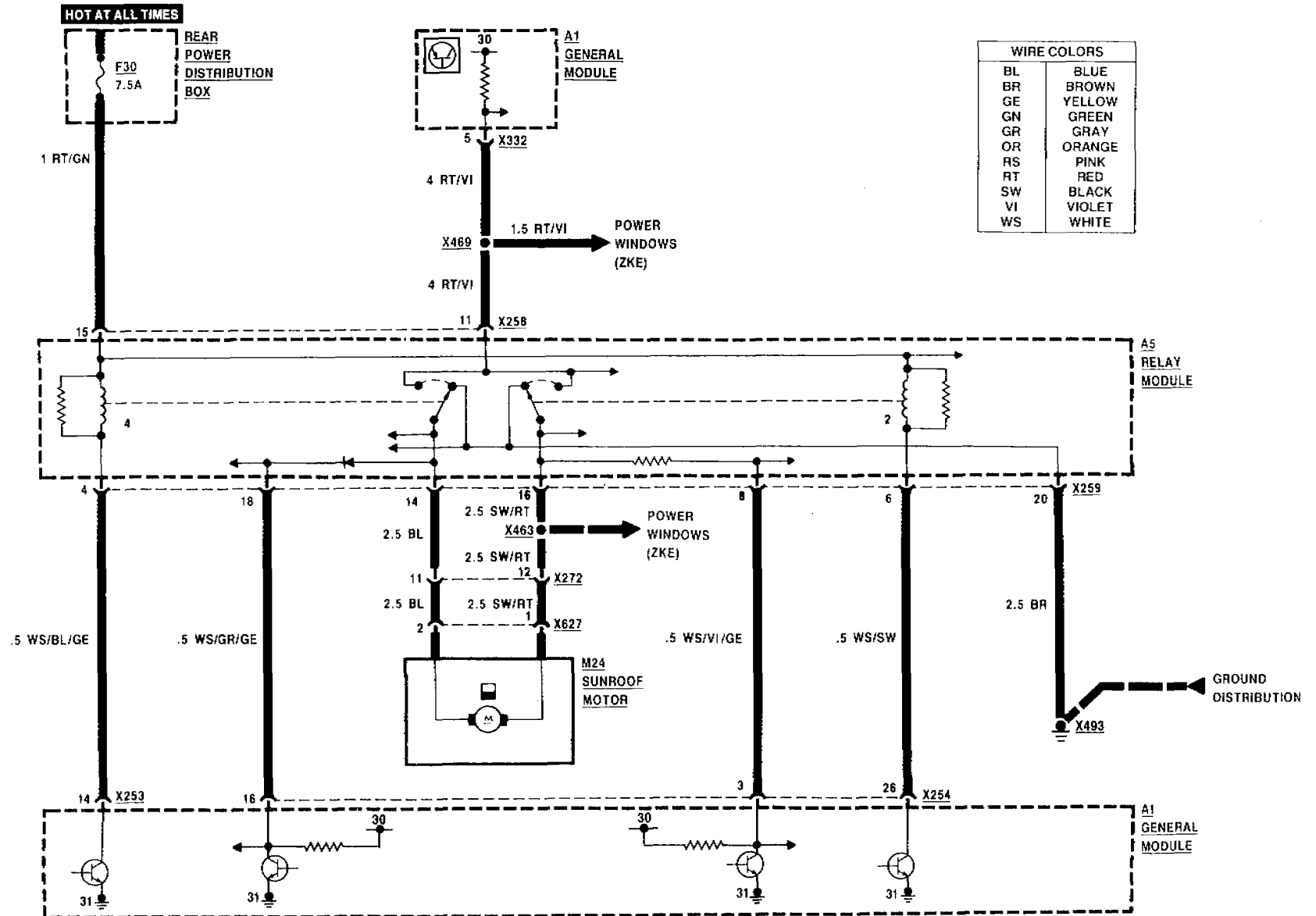
## INPUT DETAILS

5410-01





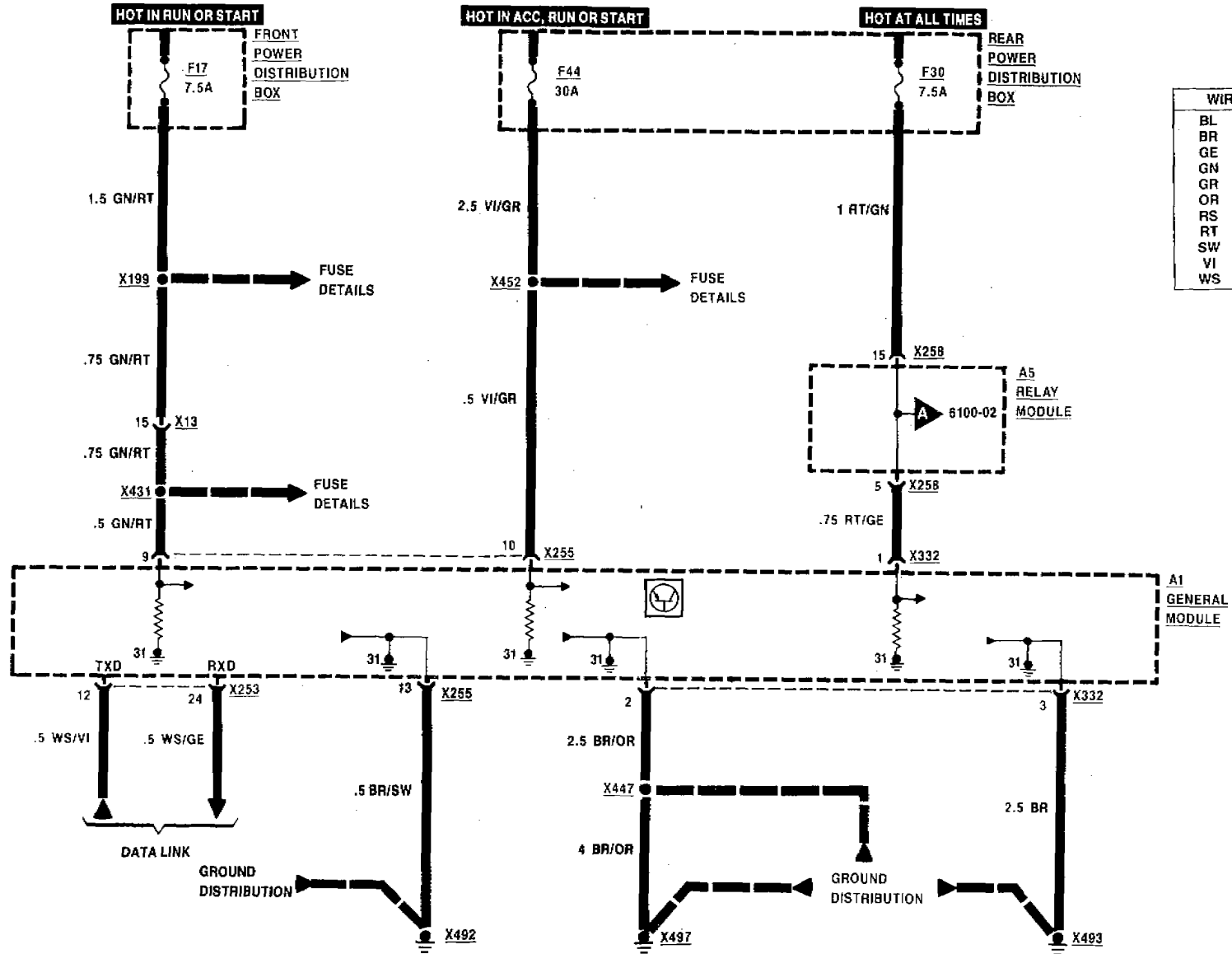
# SUNROOF (ZKE) OUTPUT DETAILS





# CENTRAL BODY ELECTRONICS (ZKE)

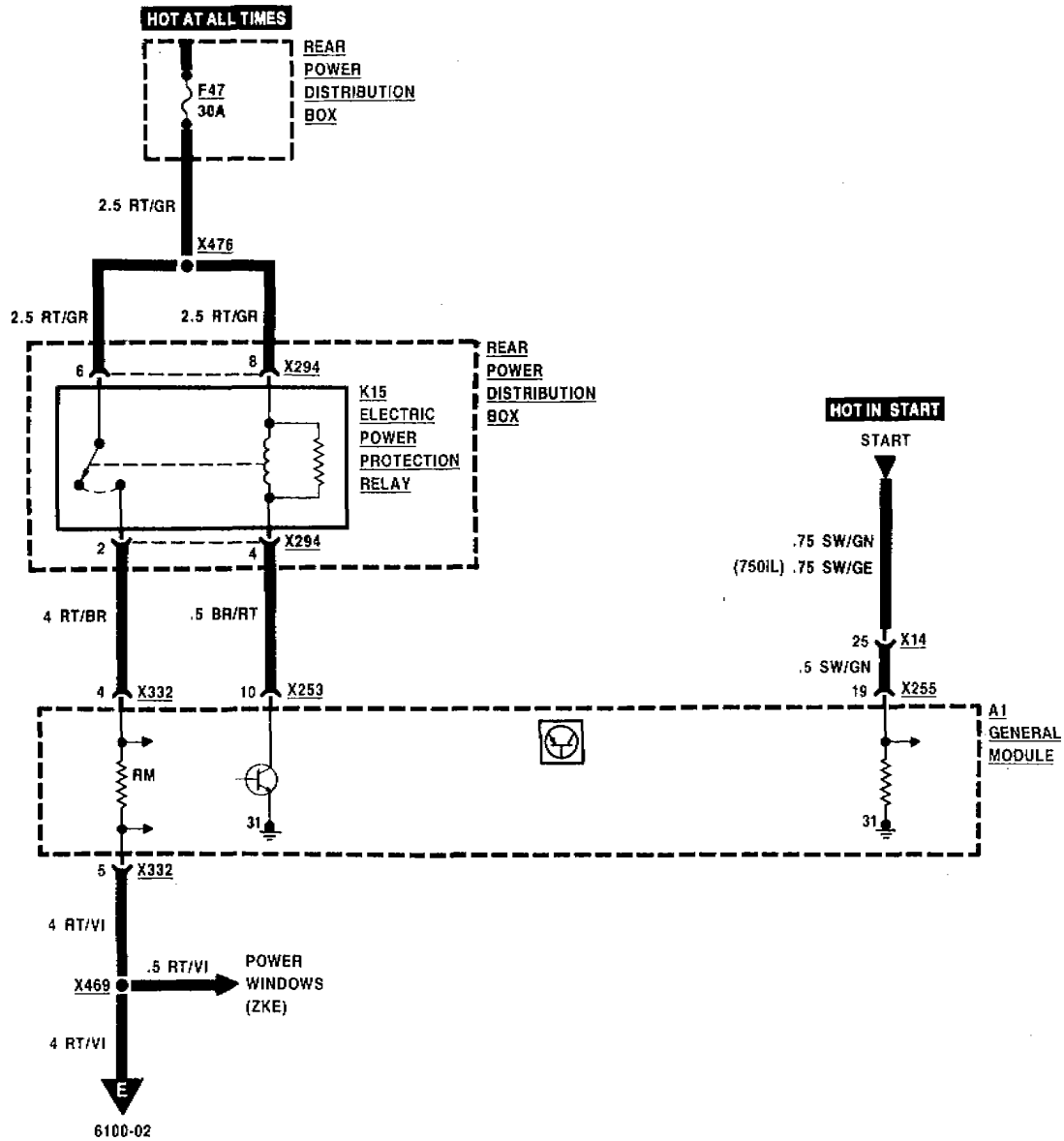
## GENERAL MODULE





# CENTRAL BODY ELECTRONICS (ZKE)

## GENERAL MODULE

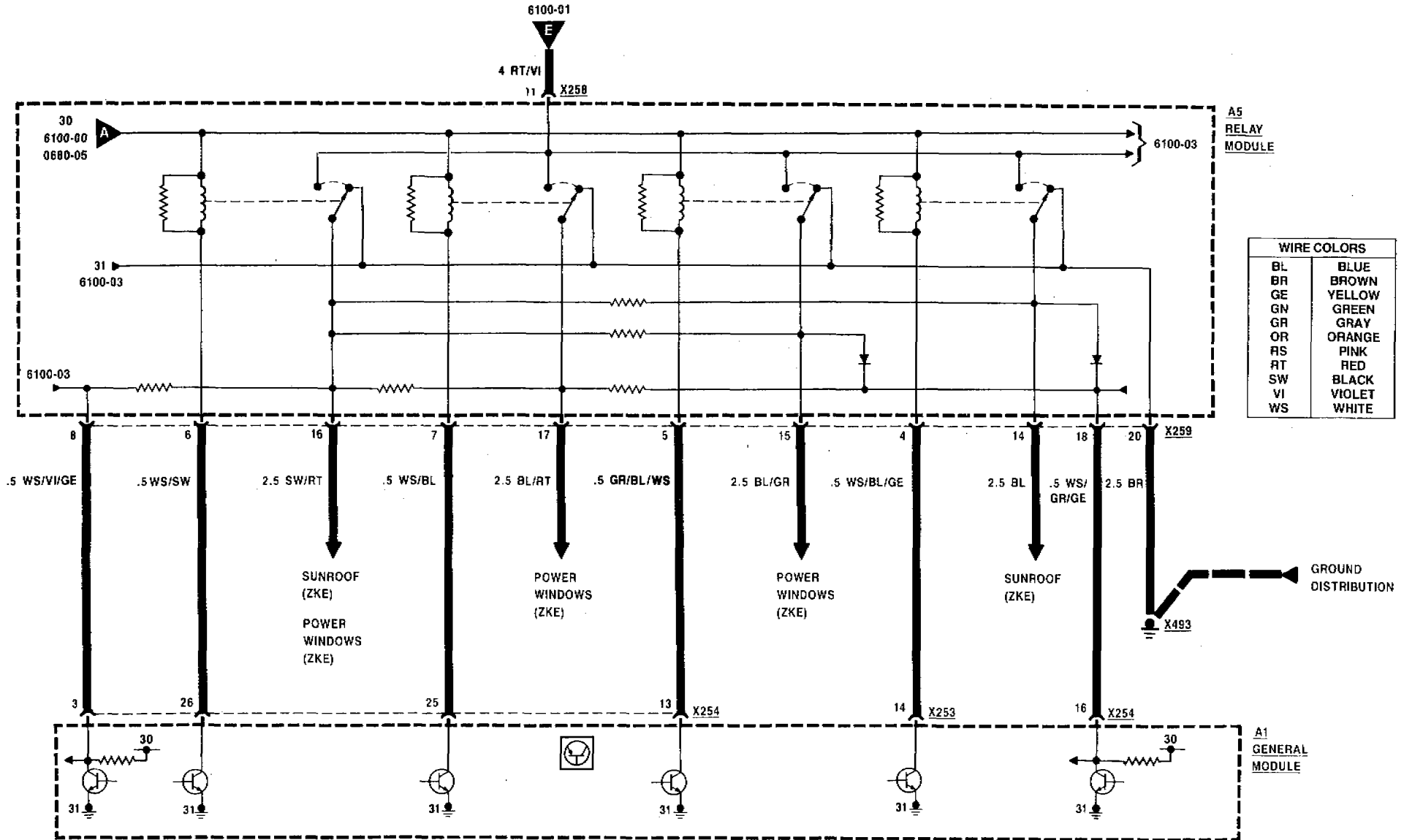


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



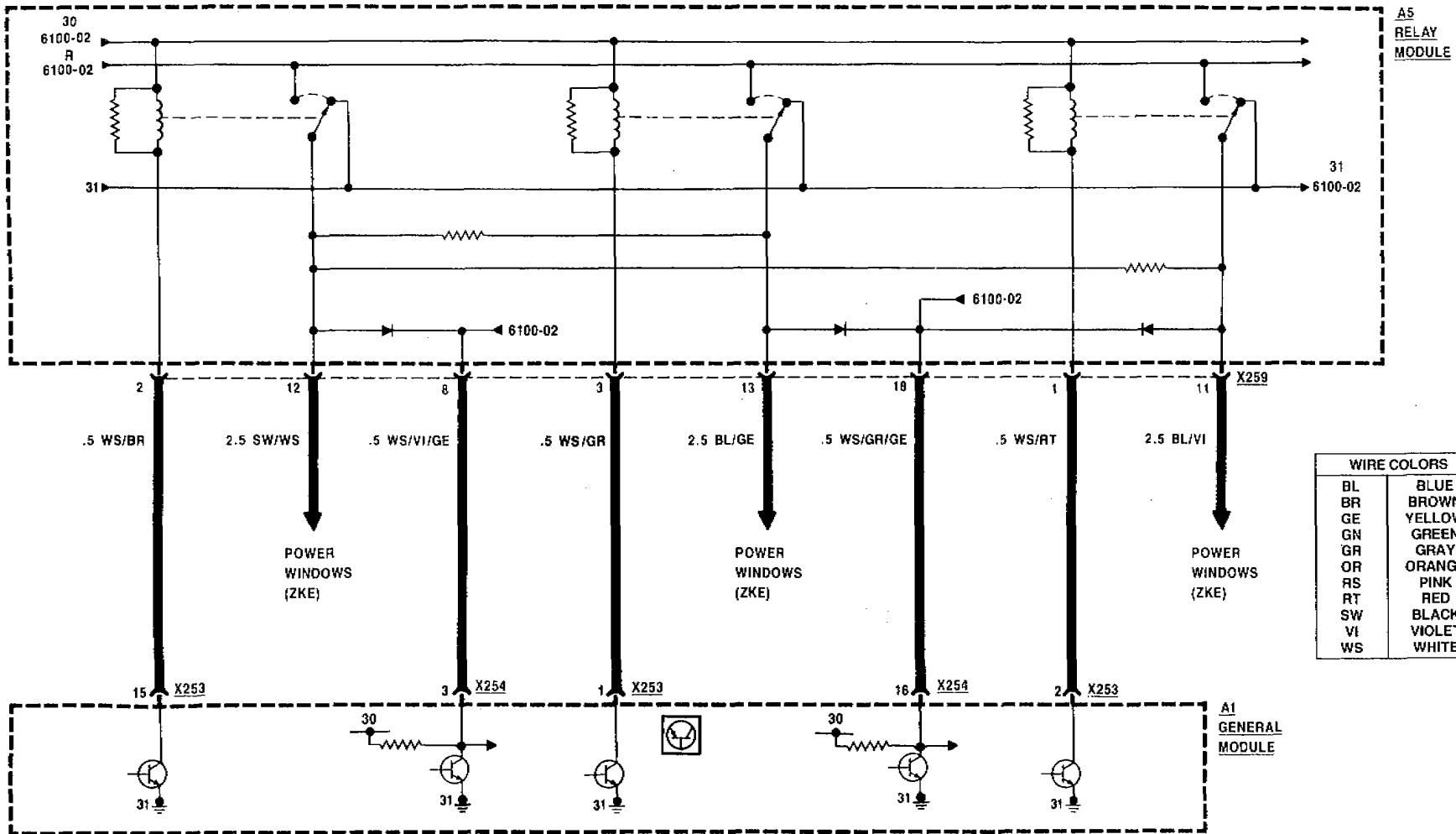
# CENTRAL BODY ELECTRONICS (ZKE)

## RELAY MODULE





# CENTRAL BODY ELECTRONICS (ZKE) RELAY MODULE

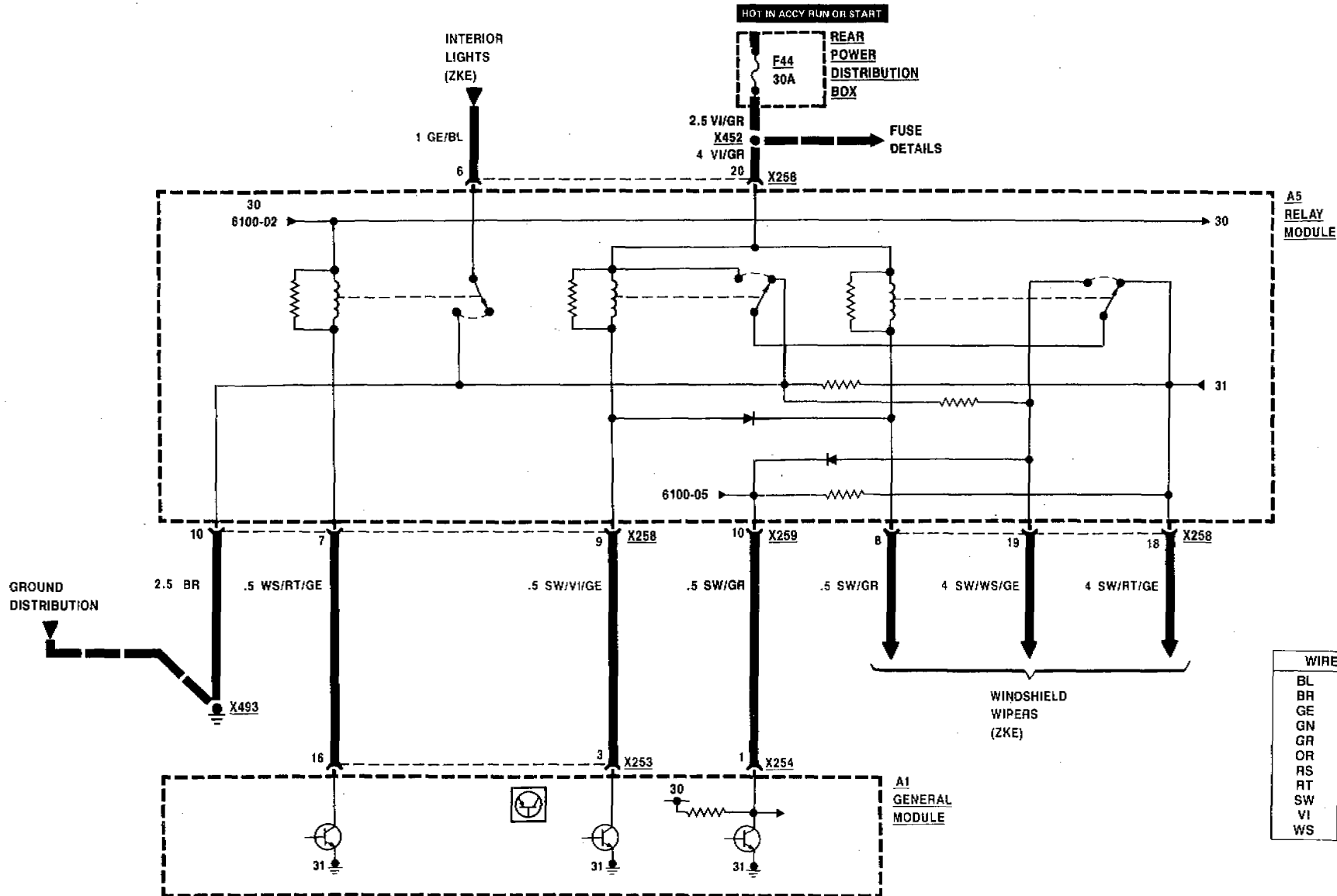






# CENTRAL BODY ELECTRONICS (ZKE)

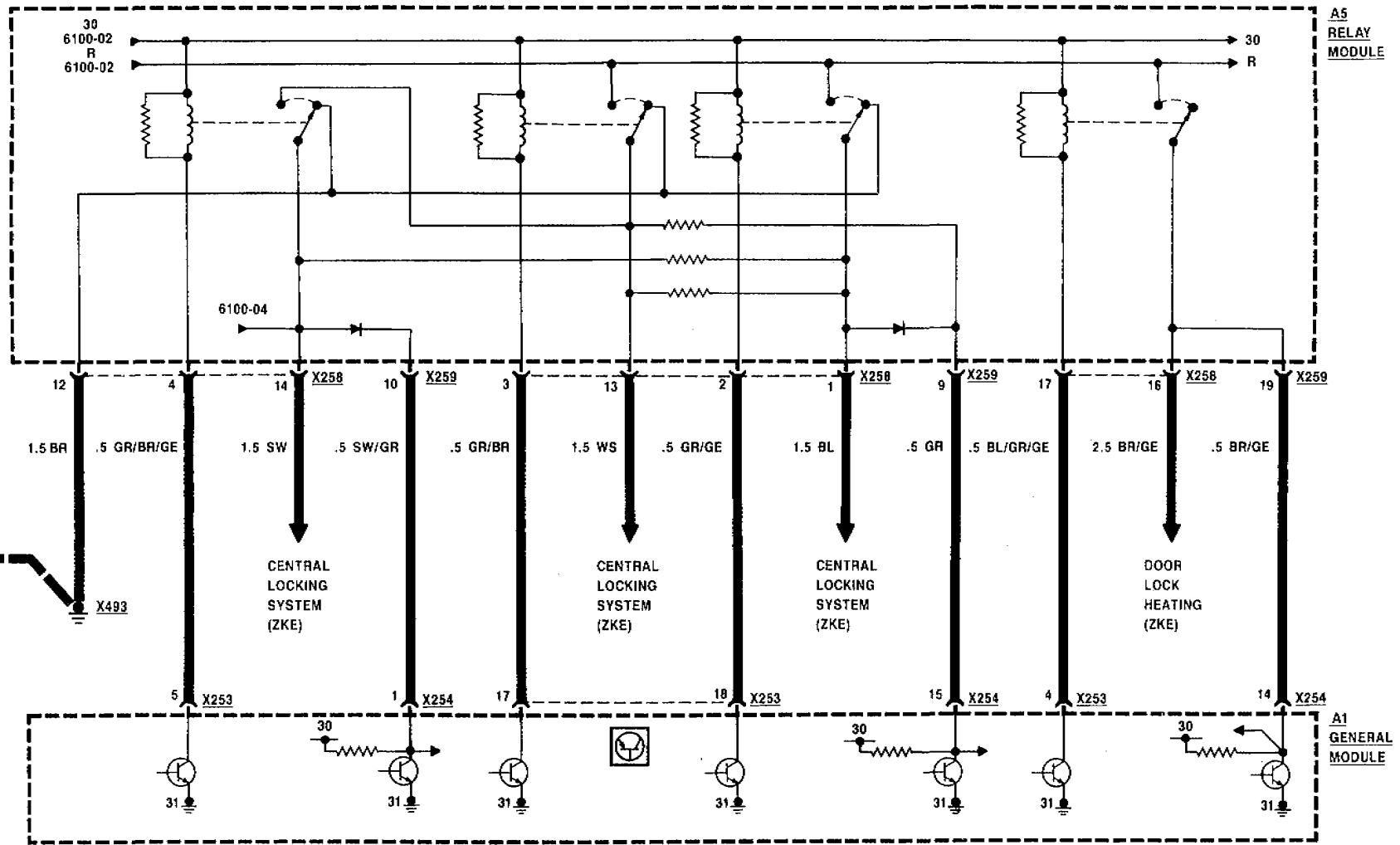
## RELAY MODULE





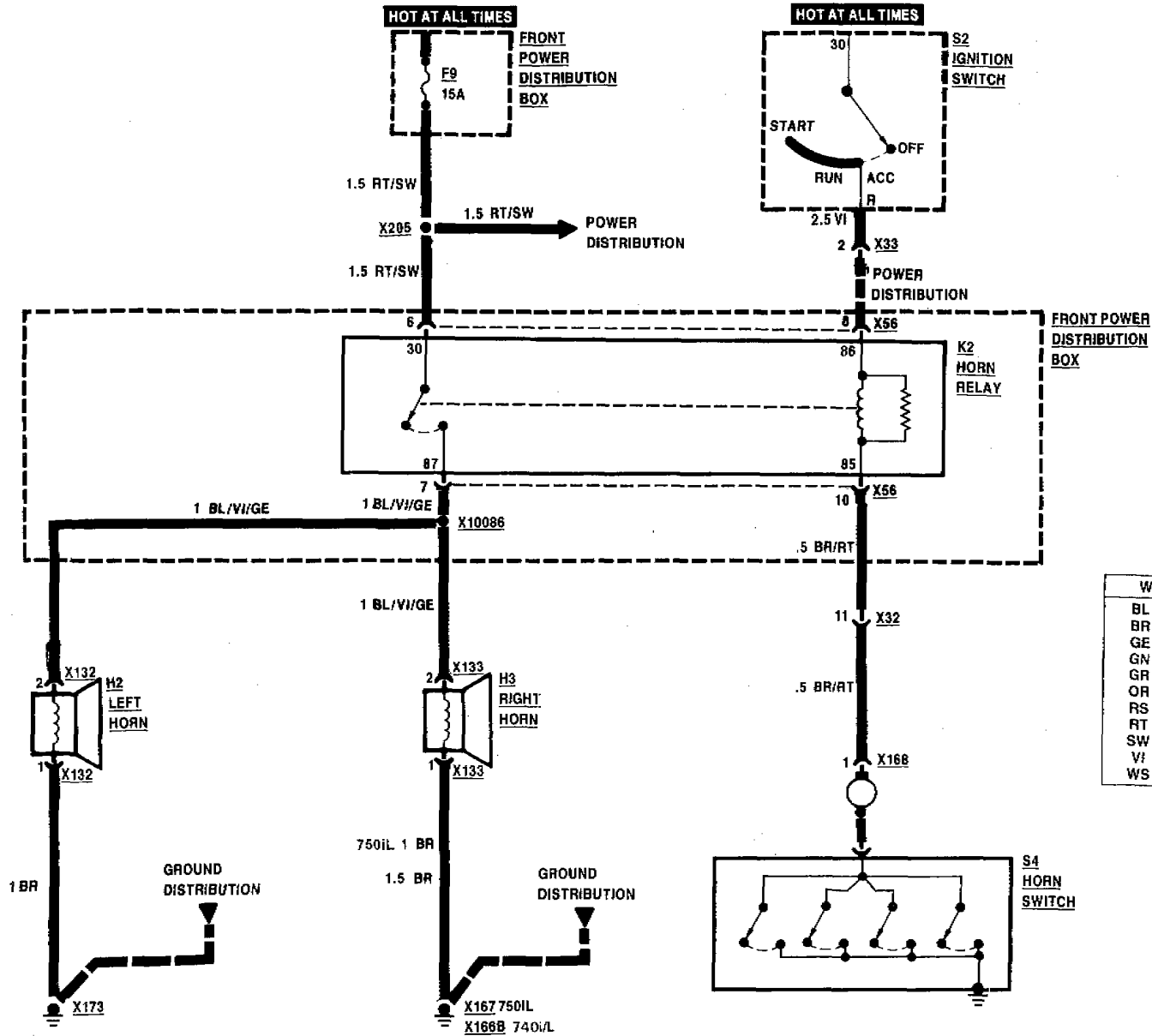
# CENTRAL BODY ELECTRONICS (ZKE)

## RELAY MODULE



GROUND DISTRIBUTION

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GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



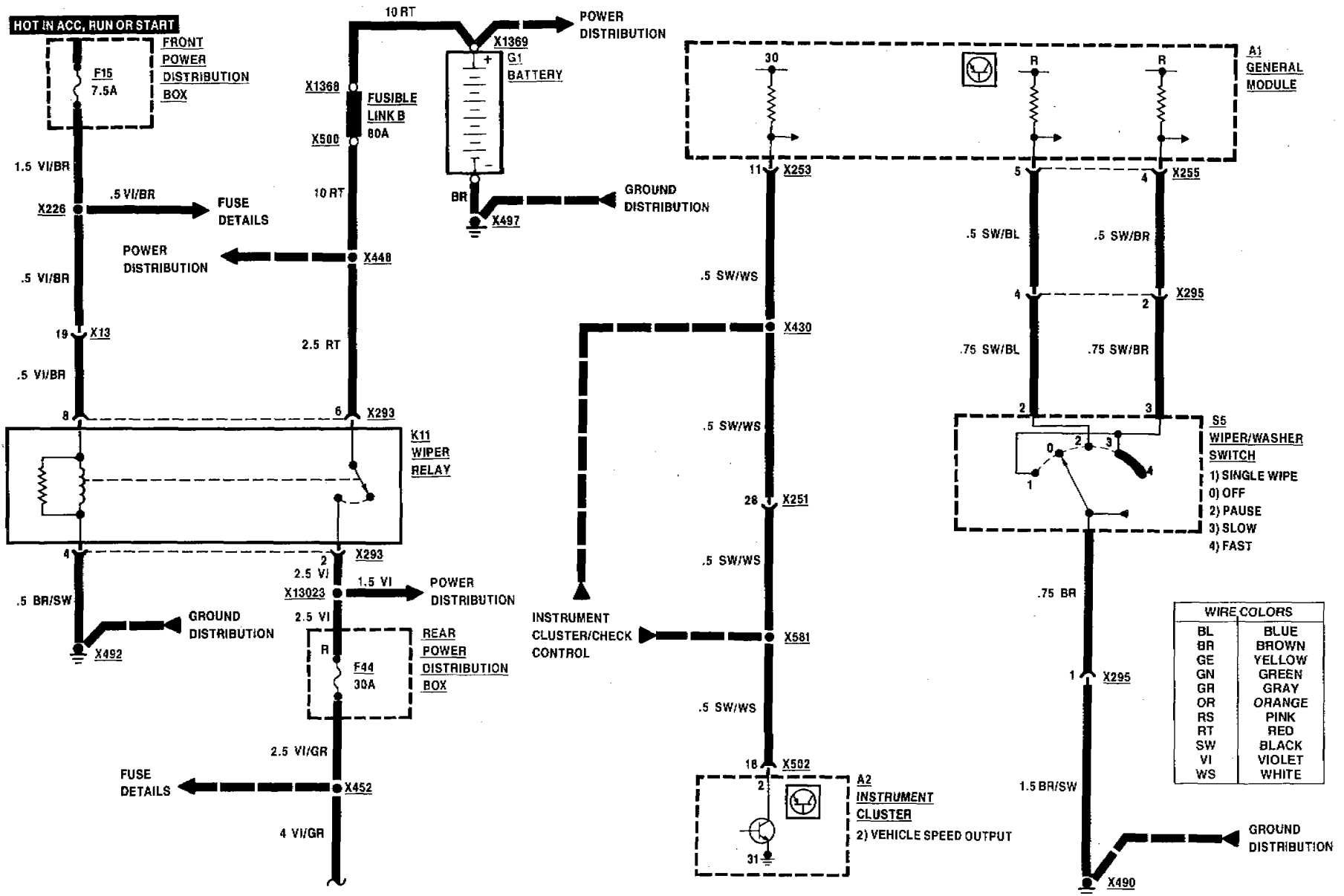
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BL	BLUE
BR	BROWN
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GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





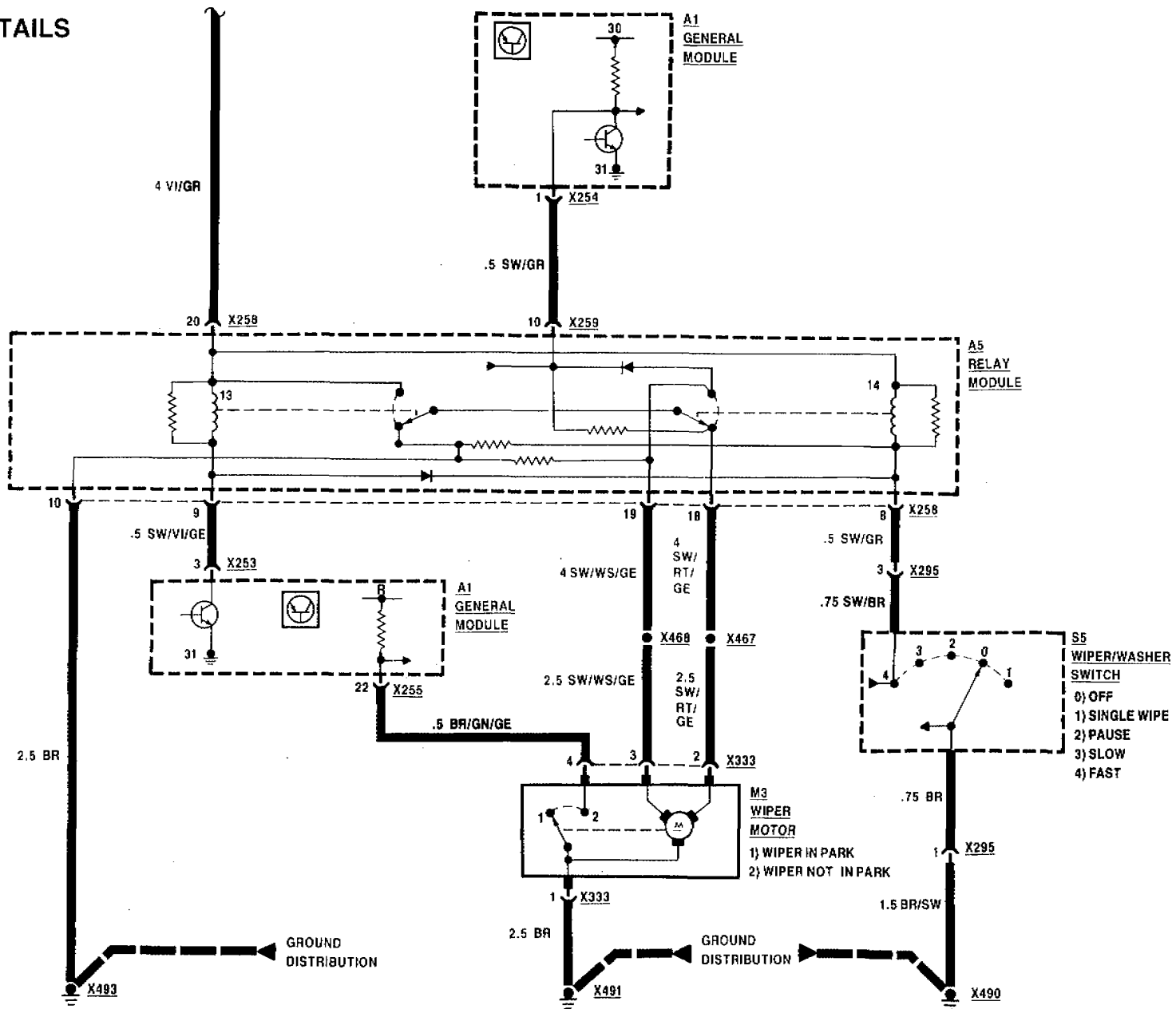
# WINDSHIELD WIPERS (ZKE)

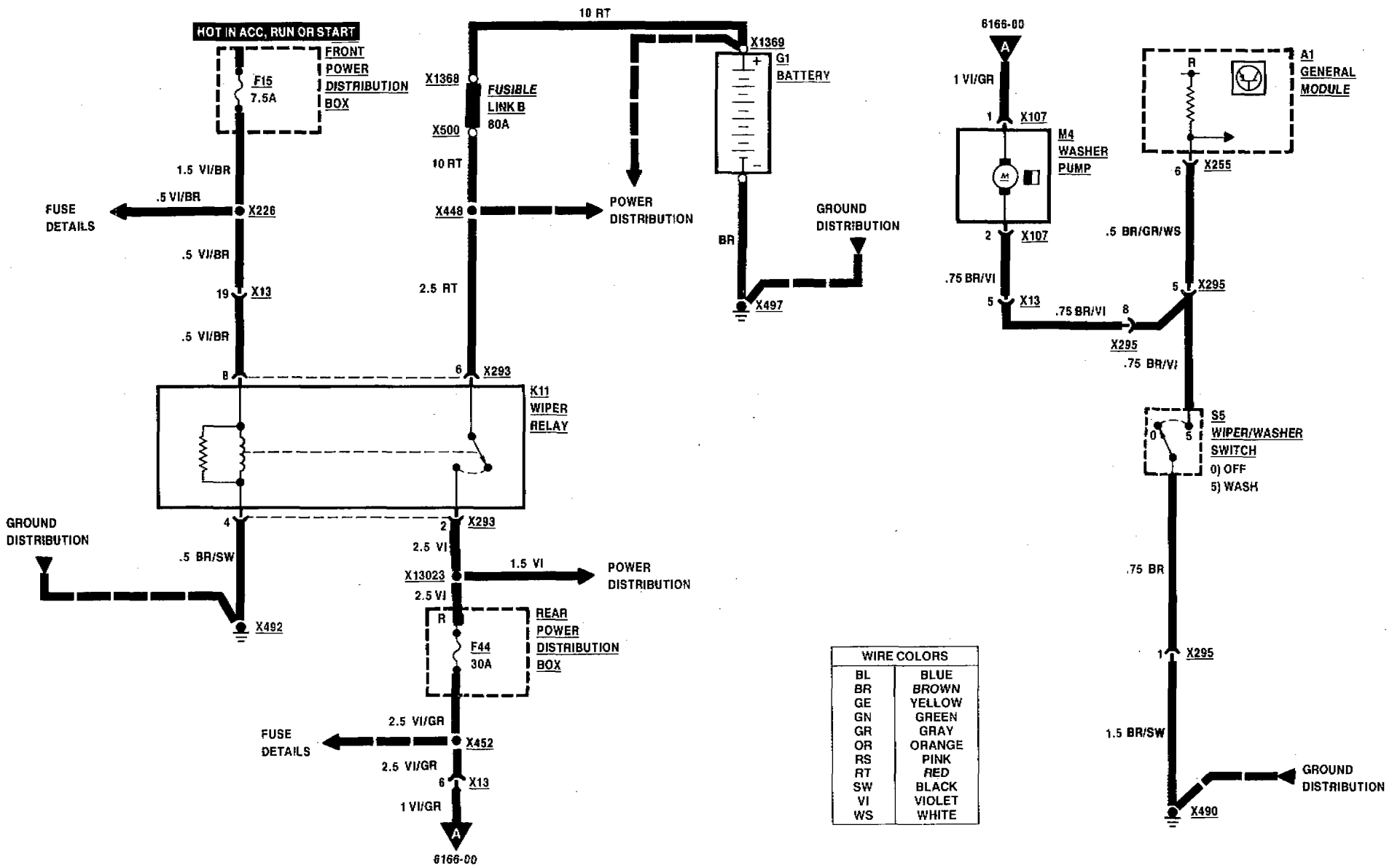
## INPUT DETAILS



# OUTPUT DETAILS

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







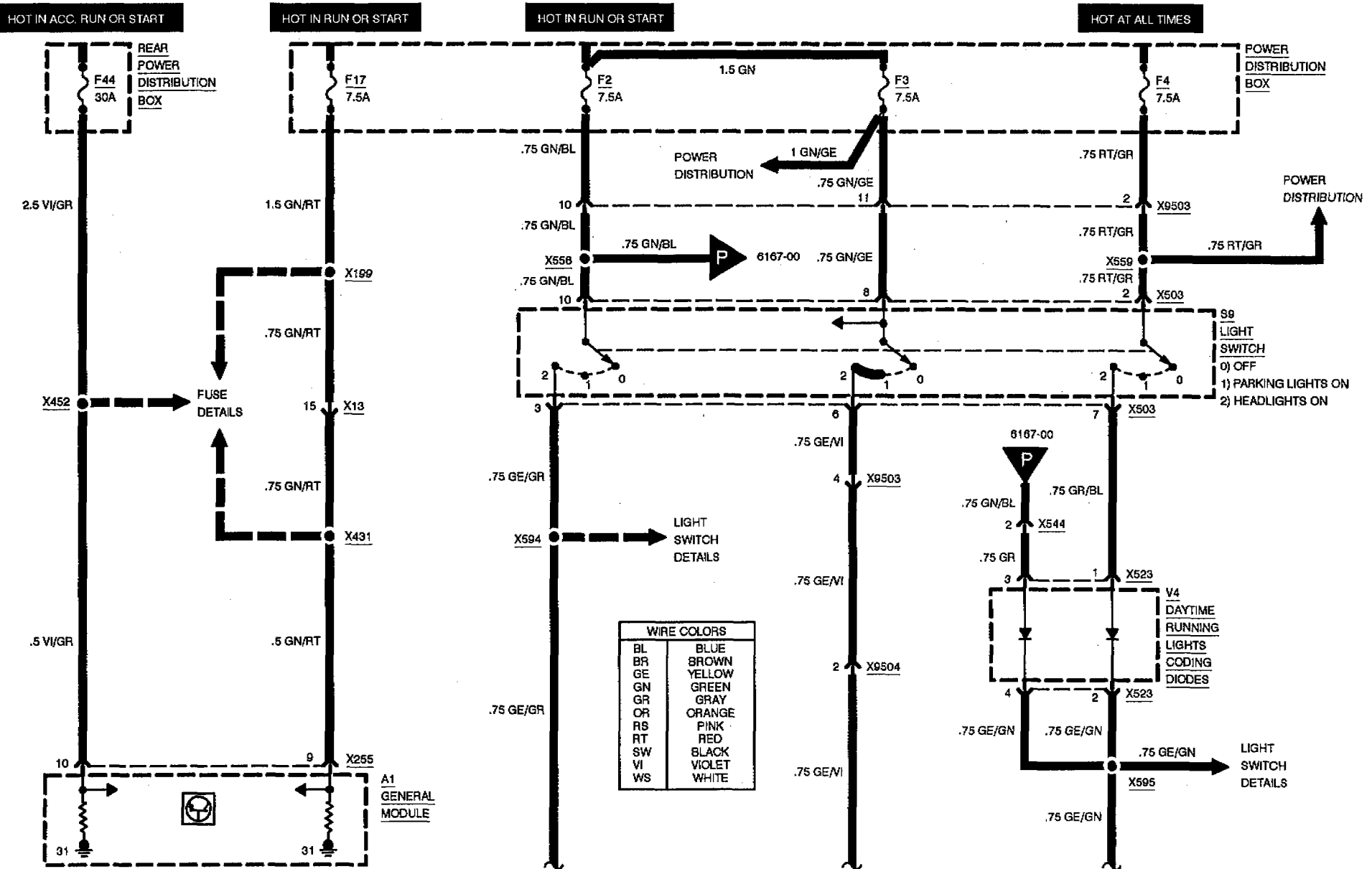




# HEADLIGHTS/FOGLIGHT WASHER (ZKE)

CANADA

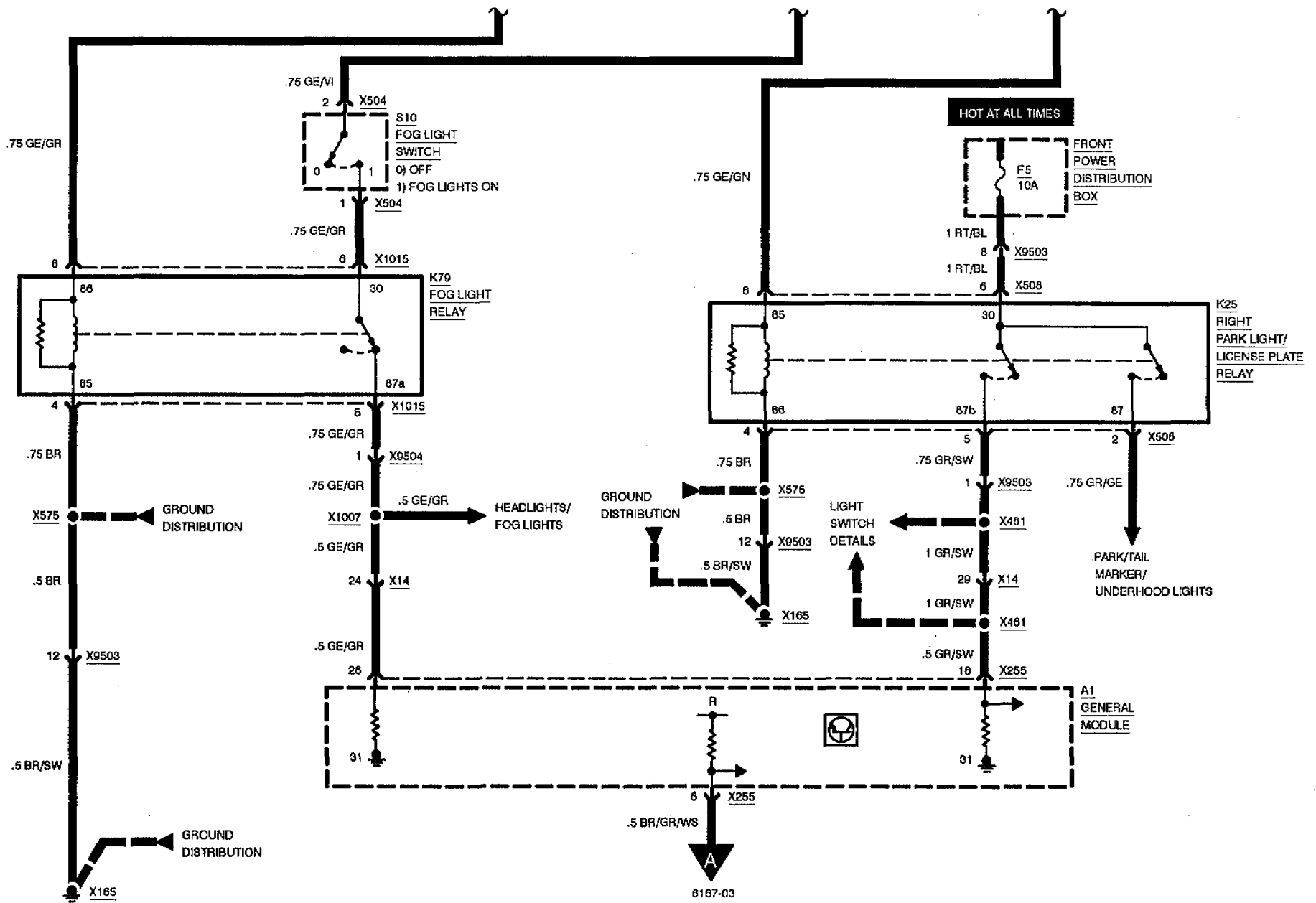
## INPUT DETAILS



12/93

6167-00

93/94

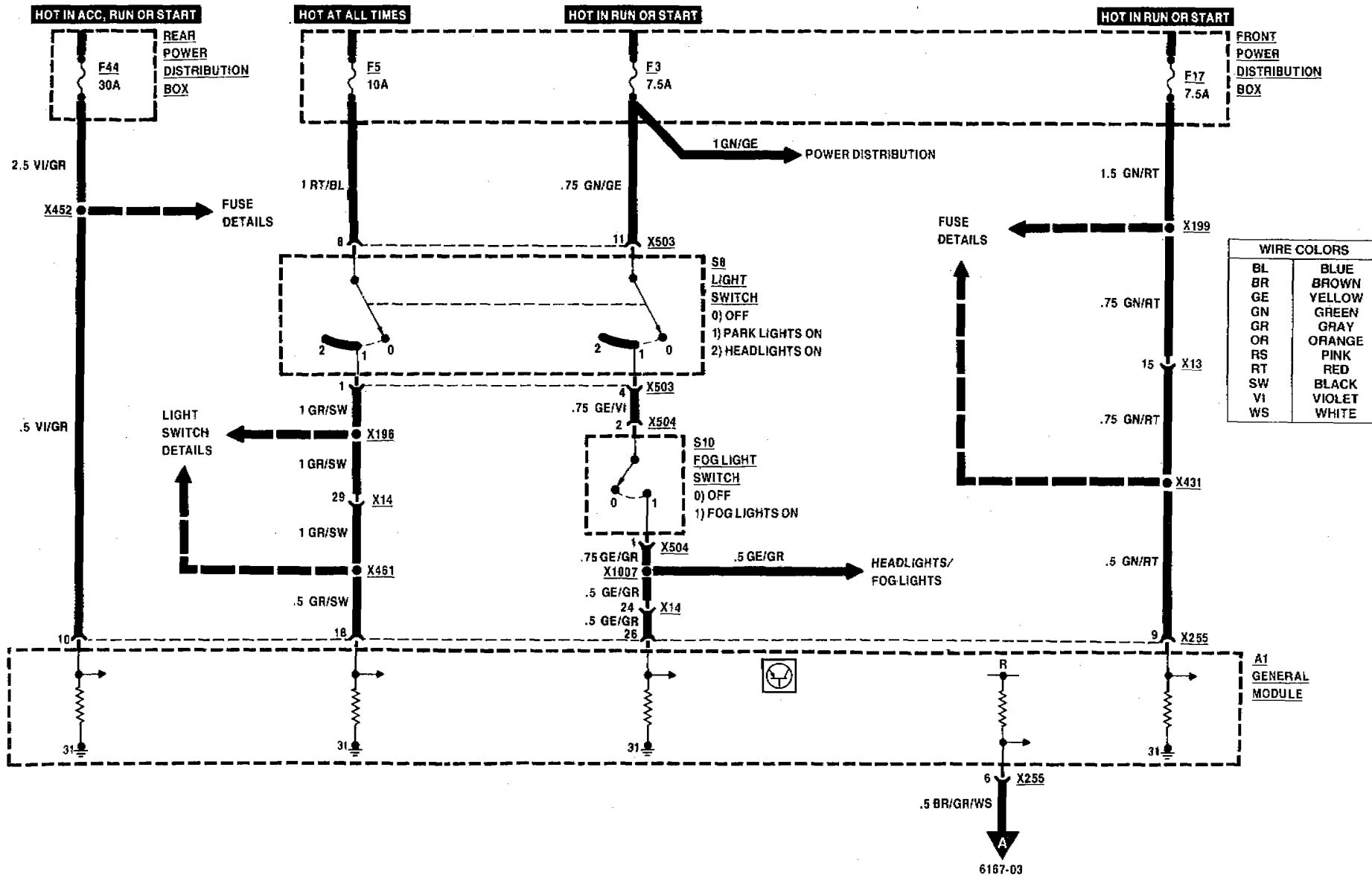




# HEADLIGHT/FOG LIGHT WASHER (ZKE)

U.S.A.

## INPUT DETAILS

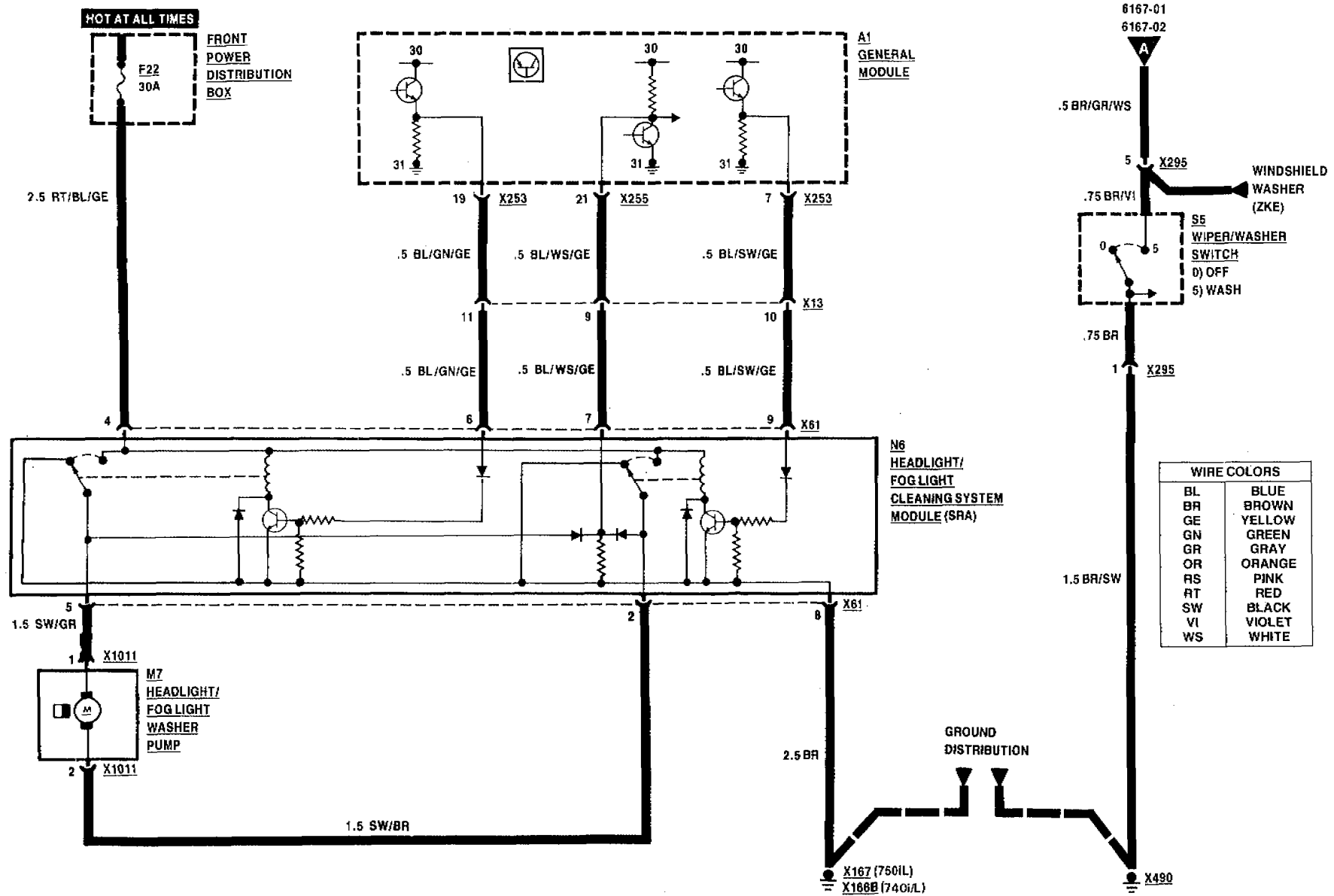


12/93

6167-02

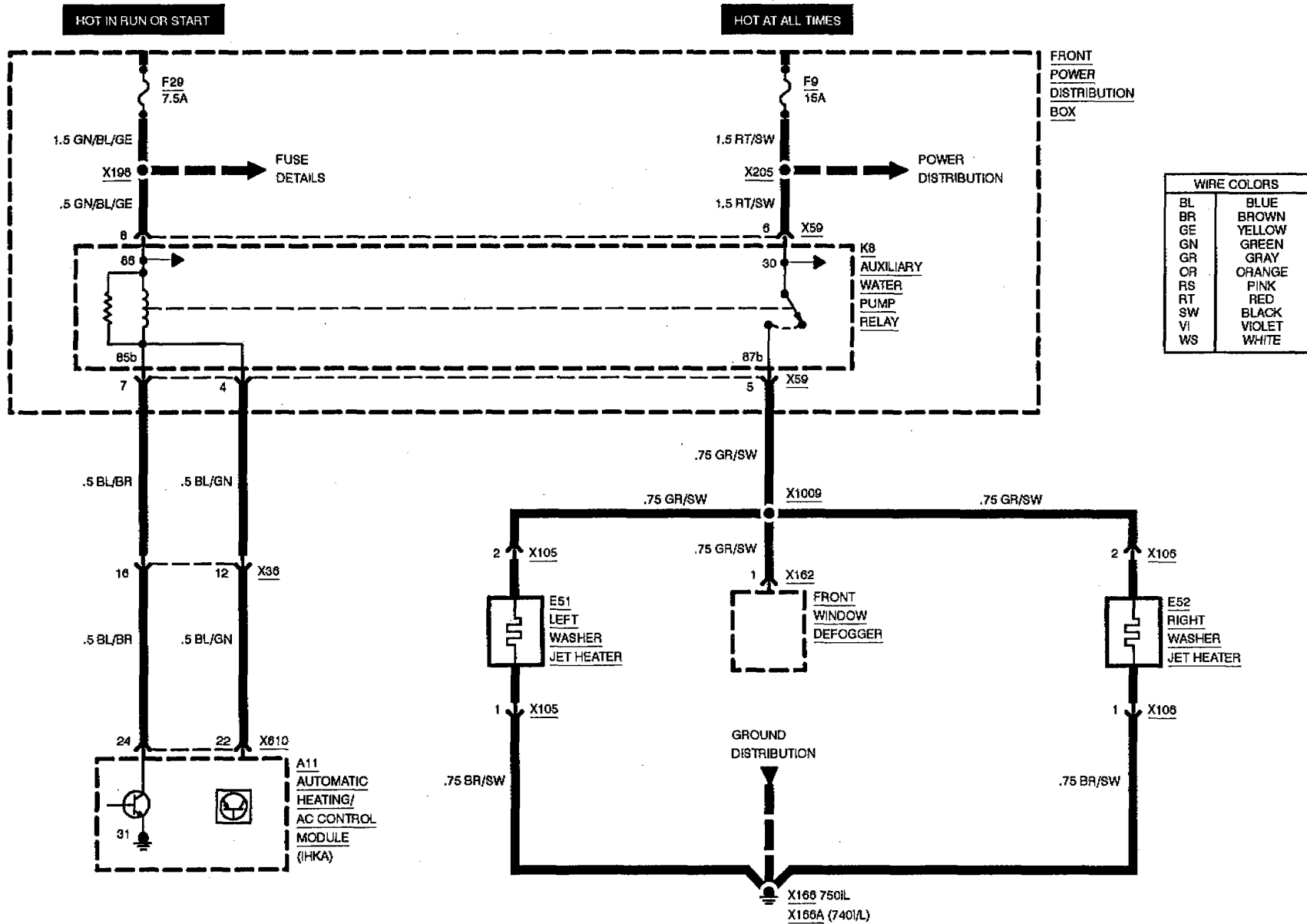
93/94

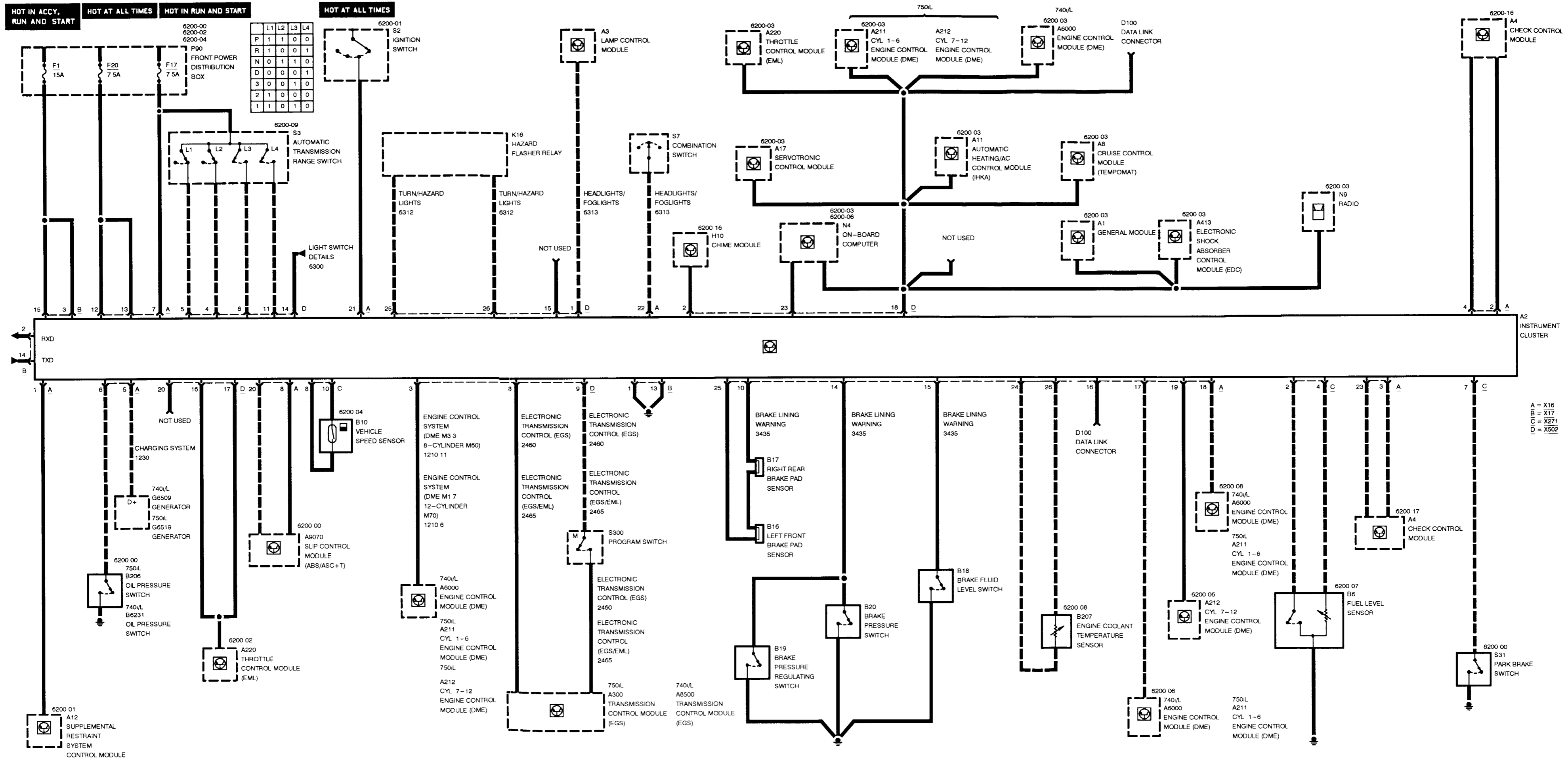
**BMW 7 HEADLIGHT/FOG LIGHT WASHER (ZKE)**  
**OUTPUT DETAILS**

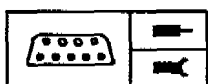




# WINDSHIELD WASHER JET HEATERS







## Pin Assignments

A=X16	26 Pins, tan
B=X17	6 Pins, brown
C=X271	12 Pins, gray
D=X502	26 Pins, white

### X16

Pin	Type	Description/Function	Connection
1	E	Airbag indicator lamp	Supplemental restraint system control module, A12
2	E/A	Data line	Check control module, A4
3	E/A	Data line	Check control module, A4
4	E/A	Data line	Check control module, A4
5	E	Battery charge control lamp	Generator, 740i G6509 750iL G6519
6	E	Oil pressure signal	Oil pressure switch, 740i B6231 750iL B206
7	E	Plus supply, terminal 15	Front power distribution box, P90
8	E	ABS/ASC+T signal	Slip control module (ABS/ASC+T), A9070
9		Not used	
10	E	Brake pad sensor 2	Right rear brake pad sensor, B17
11		Not used	
12	E	Continuous plus supply, terminal 30	Front power distribution box, P90
13	E	Continuous plus supply, terminal 30	Front power distribution box, P90
14	E	Brake lining warning	Brake pressure switch, B20
15	E	Brake fluid level	Brake fluid level switch, B18
16	E	SIA—reset	Data link connector
17	E	TI signal from DME	Engine control module, 740i A6000 750iL A211
18	E	TD signal from DME	Engine control module, 740i A6000 750iL A211
19	E	Signal from DME (750i)	Engine control module, A212 (750iL)

E = Input, A = Output, M = Ground



## Pin Assignments

Pin	Type	Description/Function	Connection
20	E	ABS-indicator lamp	Slip control module (ABS), A7 Slip control module (ABS/ASC+T), A9070
21	E	Terminal 30 for airbag indicator lamp	Ignition switch, S2
22	E	High beam indicator	Combination switch, S7
23	E/A	DAC—data line	Check control module, A4
24	E	Engine coolant temperature	Engine coolant temperature sensor, B207
25	A	Power supply	Left front brake pad sensor, B16
26	A	Power supply	Engine coolant temperature sensor, B207

### X17

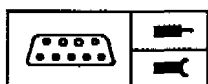
Pin	Type	Description/Function	Connection
1	M	Ground	Ground point
2	A	Diagnosis	Data link connector, RxD
3	E	Power supply, terminal R	Front power distribution box, P90
13	M	Ground	Ground point
14	E/A	Diagnosis	Data link connector, TxD
15	E	Power supply, terminal R	Front power distribution box, P90

### X271

Pin	Type	Description/Function	Connection
1		Not used	
2	E	Reserve tank indicator lamp	Fuel level sensor, B6
3		Not used	
4	E	Fuel tank immersion tube sending unit	Fuel level sensor, B6
5		Not used	
6		Not used	
7	E	Handbrake signal	Park brake switch, S31
8	E	Position pulse input	Vehicle speed sensor, B10
9		Not used	

E = Input, A = Output, M = Ground





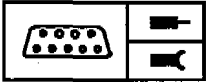
## Pin Assignments

Pin	Type	Description/Function	Connection
10	E	Rear axle reed contact	Vehicle speed sensor, B10
11		Not used	
12		Not used	

### X502

Pin	Type	Description/Function	Connection
1	E	Fog light indicator lamp	Lamp control module, A3
2	A	Chime module	Chime module, H10
3	E	CHECK engine lamp	Engine control module 740i A6000 750iL A211, A212
4	E	Automatic transmission indicator	Transmission range switch, S3
5	E	Automatic transmission indicator	Transmission range switch, S3
6	E	Automatic transmission indicator	Transmission range switch, S3
7		Not used	
8	E	EGS program indicator	Transmission control module
9	A	EGS program indicator	Program switch, S300
10		Not used	
11	E	Automatic transmission indicator	Transmission range switch, S3
12		Not used	
13		Not used	
14	E	Instrument cluster lighting	Light switch, S8
15		Not used	
16	E	EML indicator lamp	Electronic throttle control module, A220
17	E	EML indicator lamp	Electronic throttle control module, A220
18	A	Speedometer output A—signal	Control modules
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23	E	CC button for BC	On-board computer, N4
24		Not used	

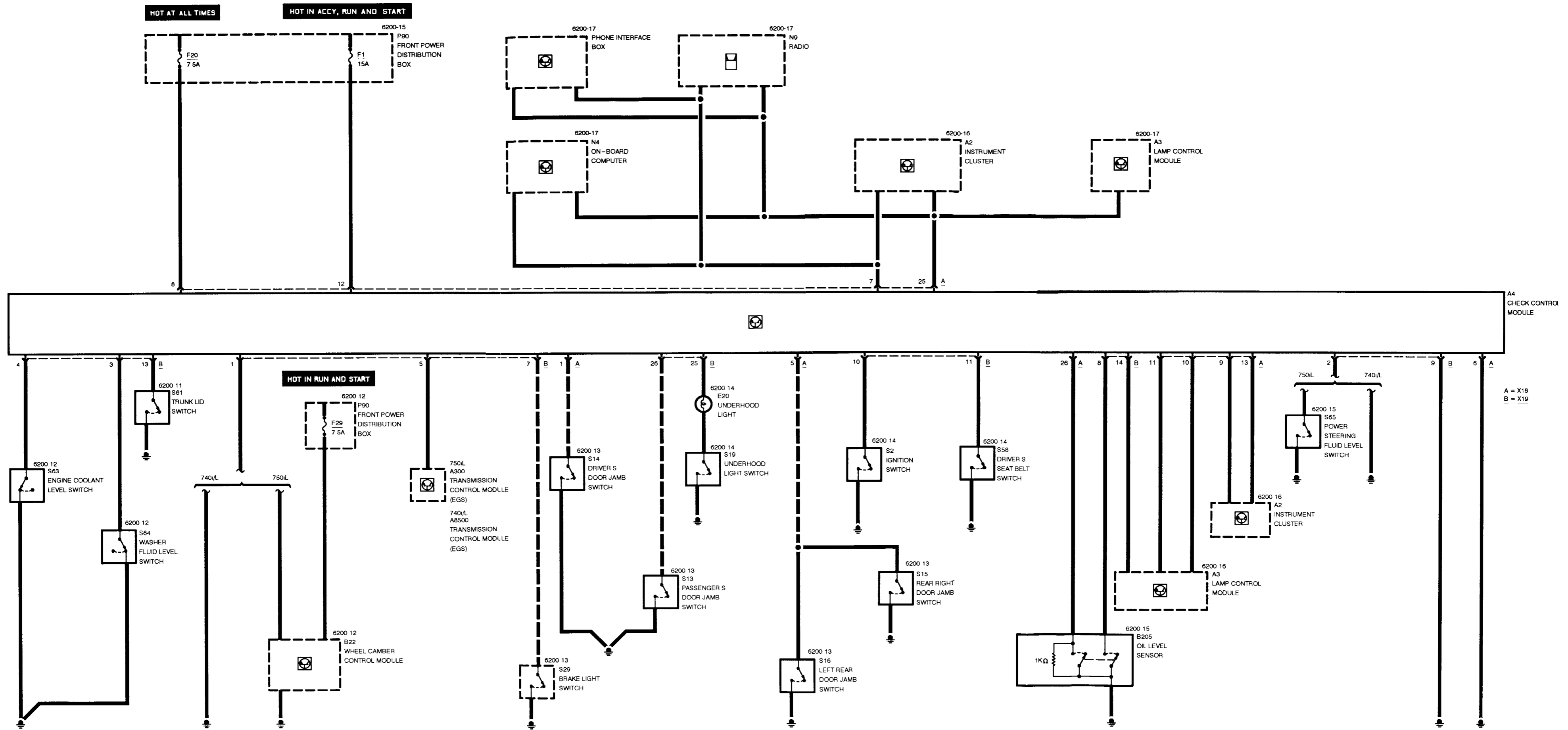
E = Input, A = Output, M = Ground

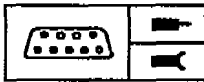


## Pin Assignments

Pin	Type	Description/Function	Connection
25	E	Left turn signal indicator	Hazard flasher relay, K16
26	E	Right turn signal indicator	Hazard flasher relay, K16

E = Input, A = Output, M = Ground





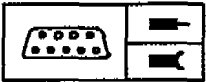
## Pin Assignments

A=X18	26 Pins, blue
B=X19	26 Pins, green

### X18

Pin	Type	Description/Function	Connection
1	E	Driver's door contact	Driver's door jamb switch, S14
2		Not used	
3		Not used	
4		Not used	
5	E	Door contact rear	Both rear door jamb switches, S15, S16
6	M	Ground	Ground point
7	E/A	Data line to instrument cluster and BC	Instrument cluster, A2; BC, N4
8	E	Power supply (terminal 30)	Front power distribution box
9	A	Internal instrument cluster	Instrument cluster, A2
10	E	Data line to lamp monitor (LKM)	Lamp monitor, A3
11	E	Operating voltage for lamp monitor (LKM)	Lamp monitor, A3
12	E	Power supply (terminal R)	Front power distribution box
13	E/A	Data line to instrument cluster	Instrument cluster, A2
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25	E/A	Data line to instrument cluster, LKM and BC	Instrument cluster, LKM, BC
26	E	Oil level signal	Oil level sensor, B205

E = Input, A = Output, M = Ground



## Pin Assignments

### X19

Pin	Type	Description/Function	Connection
1	E	Wheel camber warning (750iL)	Wheel camber control module, B22
2	E	Power steering fluid level	Power steering fluid level switch, S65
3	E	Washer fluid level	Washer fluid level switch, S64
4	E	Coolant level	Coolant level switch, S63
5	E	EGS signal	Transmission control module
6		Not used	
7	E	Brake light test	Brake light test switch, S29
8	E	Static level, engine oil	Static level switch, engine oil, B205
9	M	Ground	Ground point
10	E	Ignition lock	Ignition switch, S2
11	E	Driver's seat belt	Driver's seat belt switch, S58
12		Not used	
13	E	Trunk lid signal	Trunk lid switch, S61
14	E	Lamp control module	Lamp monitor (LKM), A3
15		Not used	
16		Not used	
17		Not used	
18		Not used	
19		Not used	
20		Not used	
21		Not used	
22		Not used	
23		Not used	
24		Not used	
25	A	Engine compartment light	Underhood light, E20
26	E	Passenger's door	Passenger's door jamb switch, S13

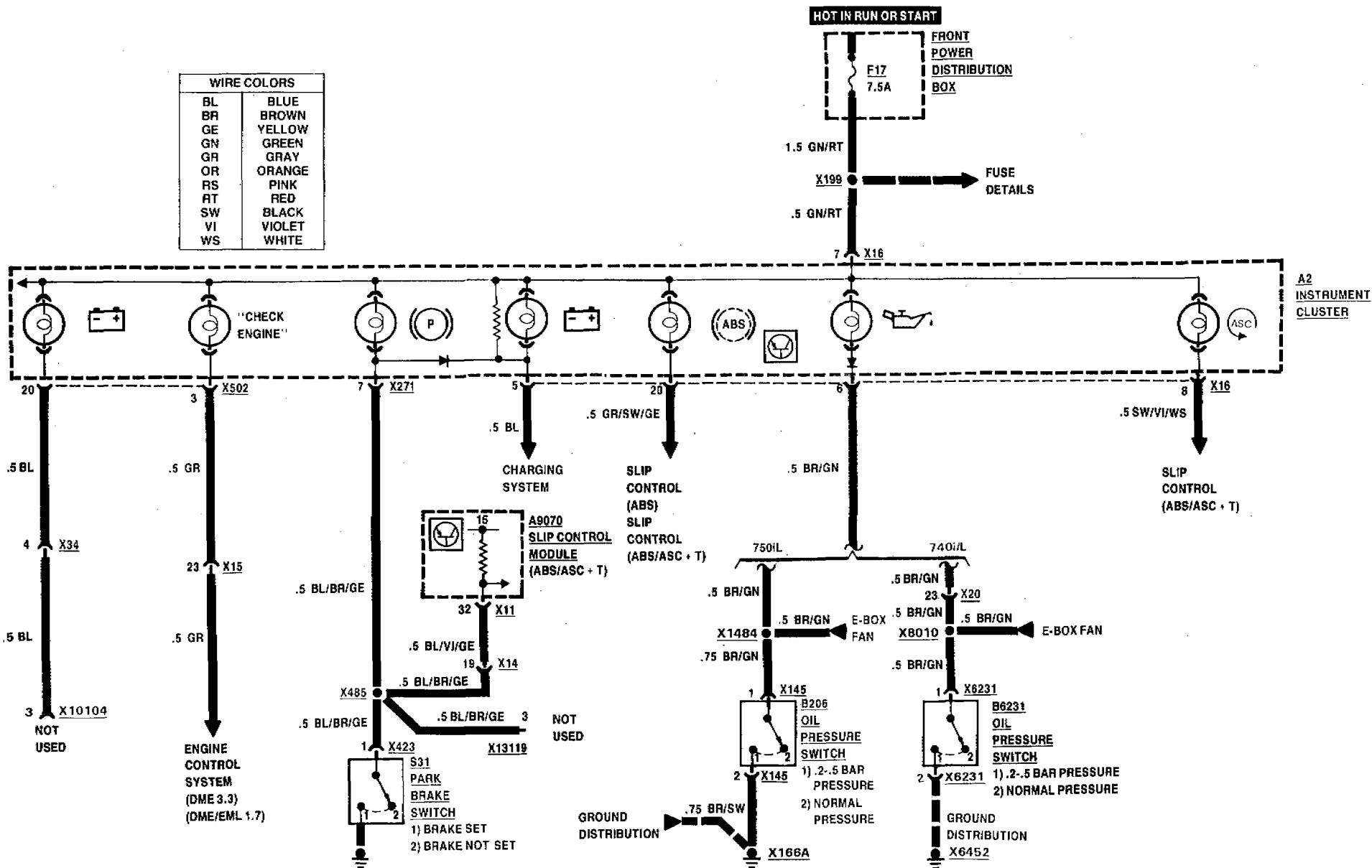
E = Input, A = Output, M = Ground





# INSTRUMENT CLUSTER/CHECK CONTROL INDICATORS

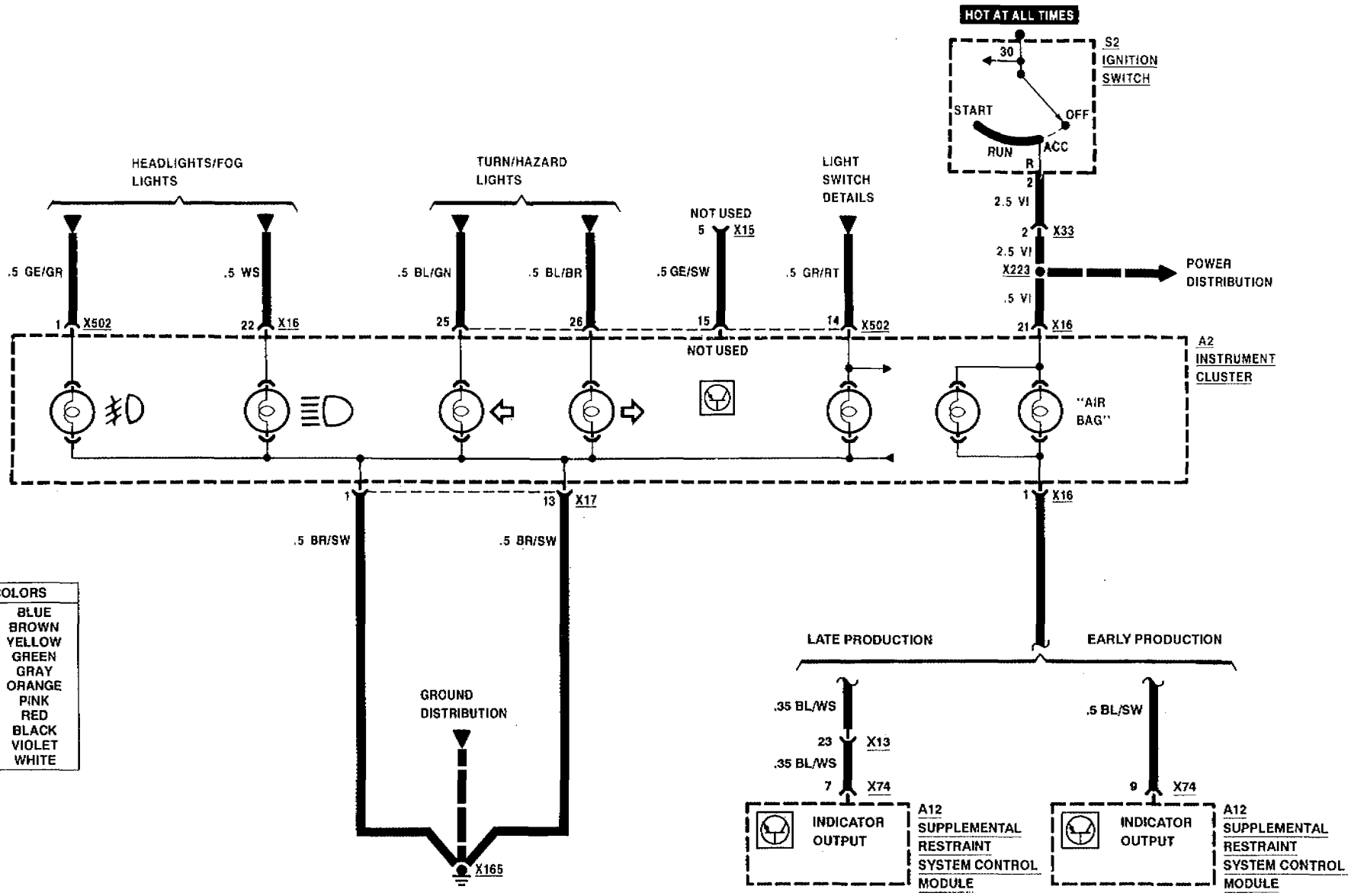
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# INSTRUMENT CLUSTER/CHECK CONTROL

## INSTRUMENT CLUSTER INDICATORS

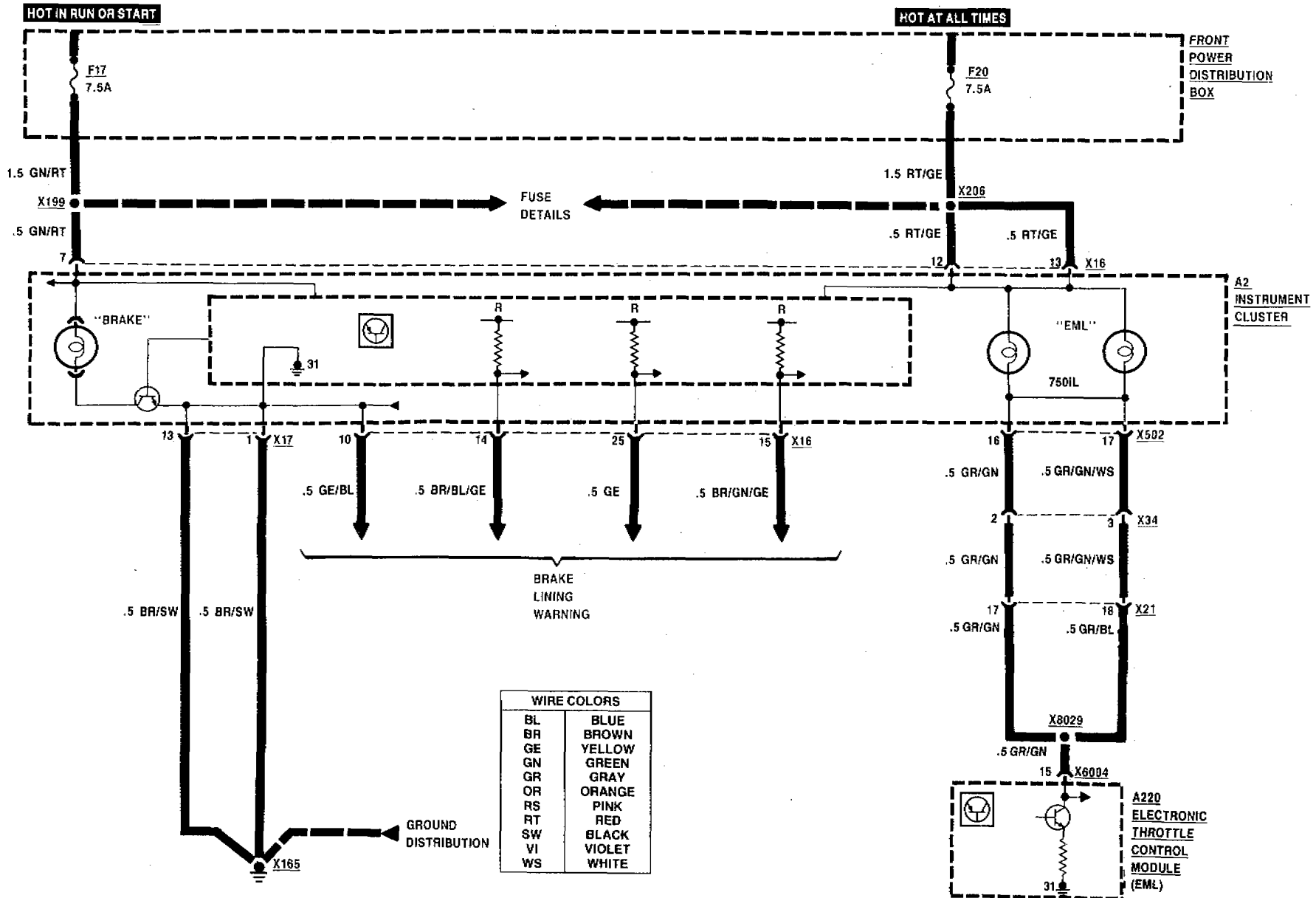


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# INSTRUMENT CLUSTER/CHECK CONTROL INDICATORS

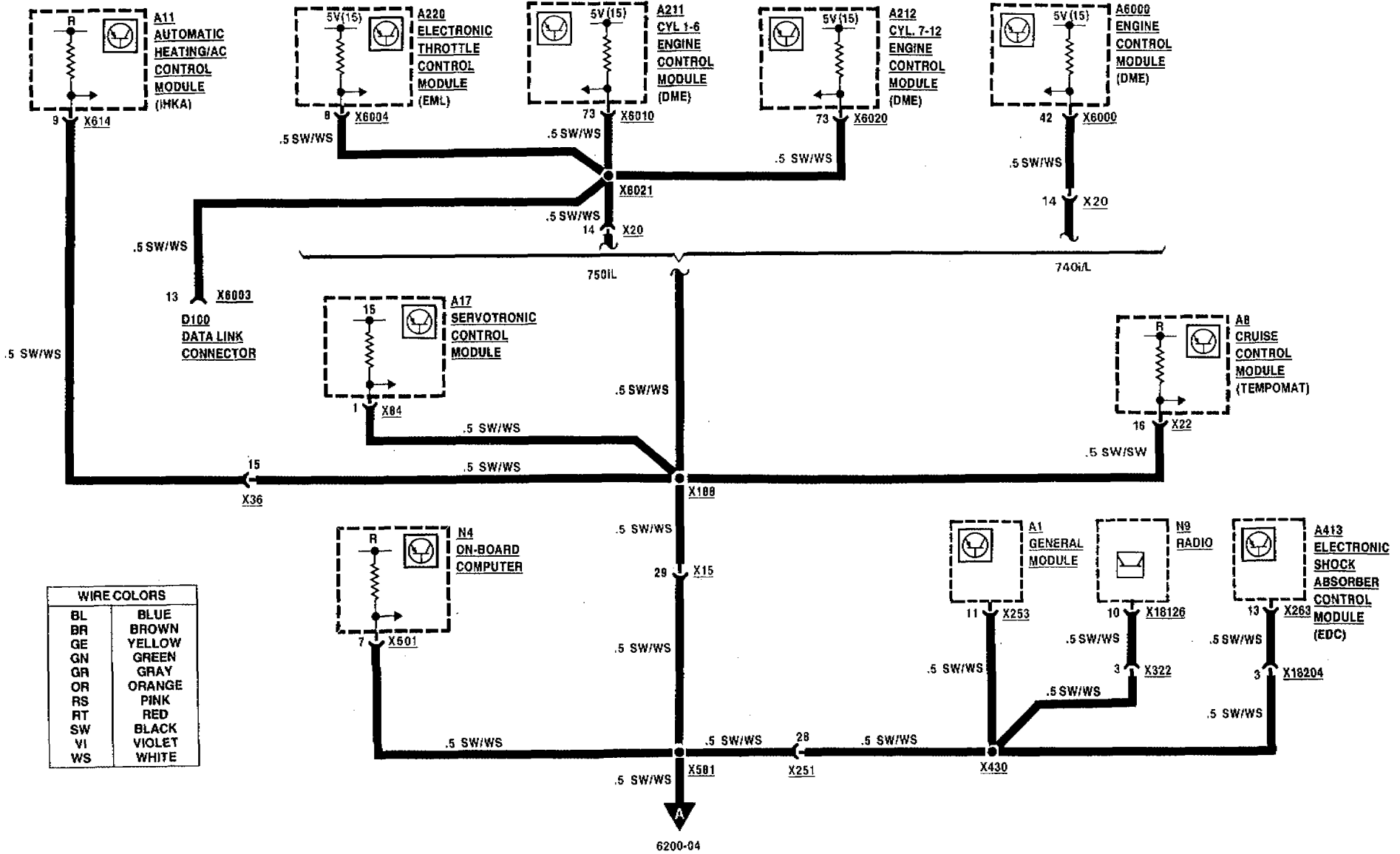


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6200-02

93/94

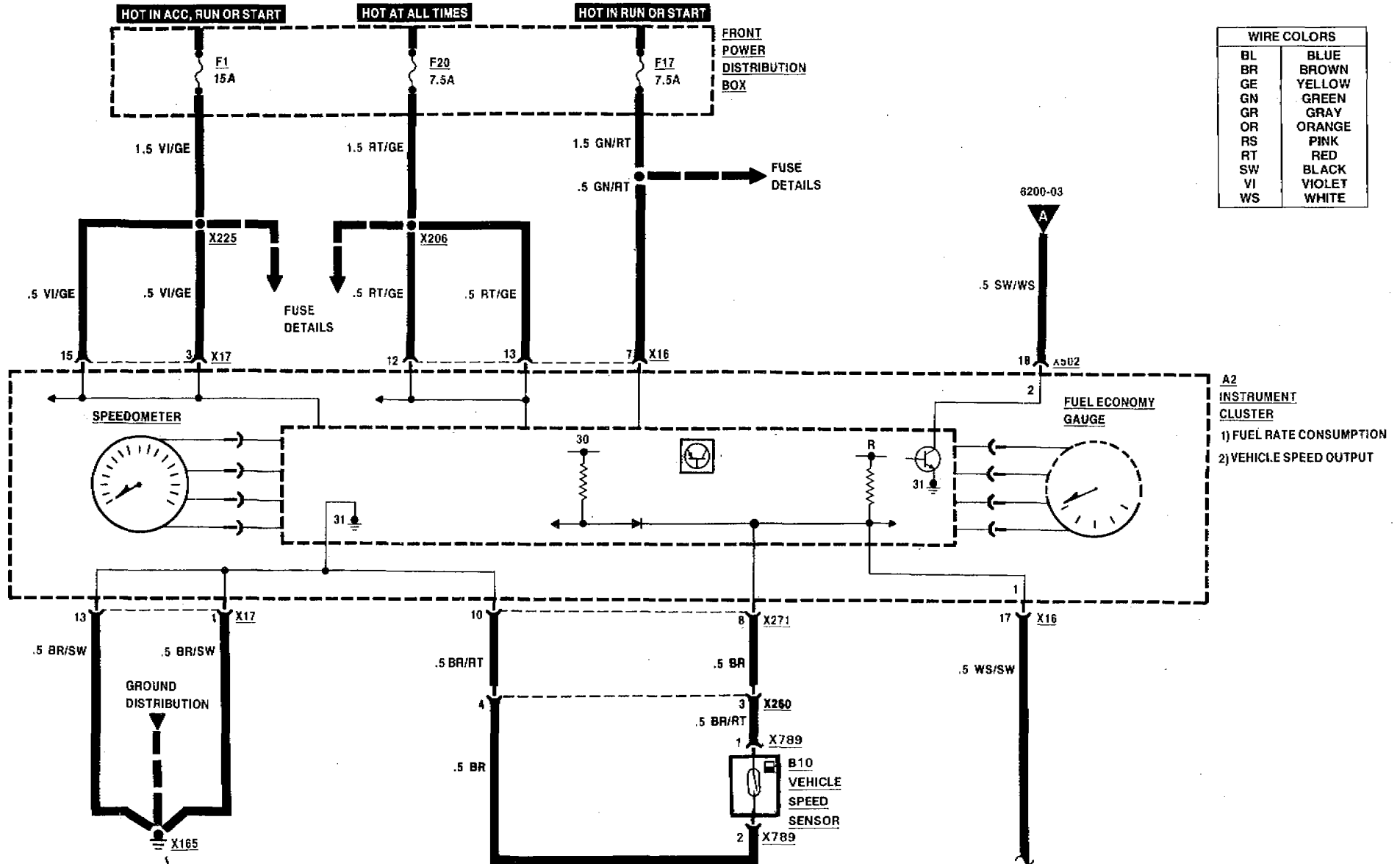
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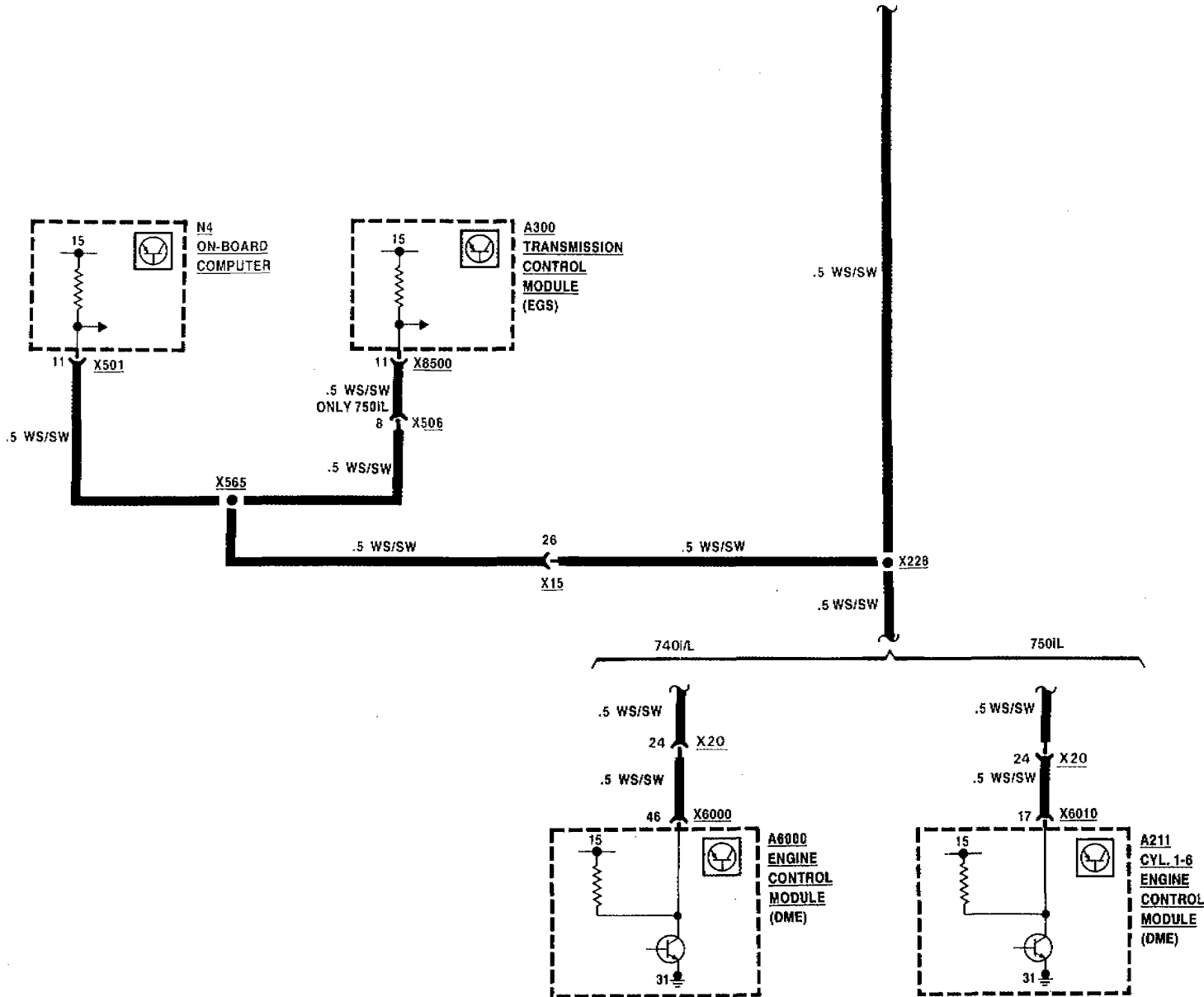


# INSTRUMENT CLUSTER/CHECK CONTROL

## INSTRUMENT CLUSTER GAUGES



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

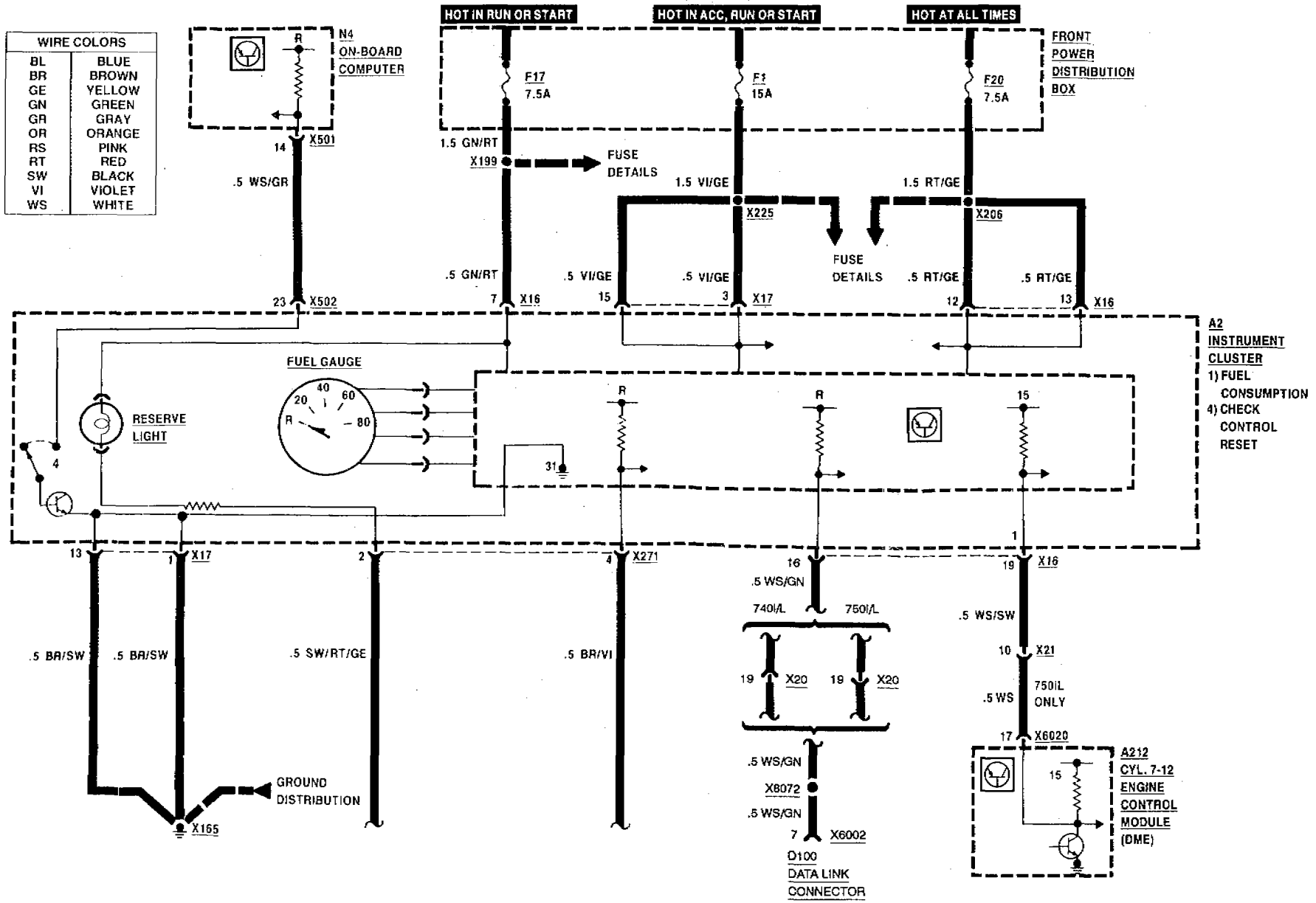


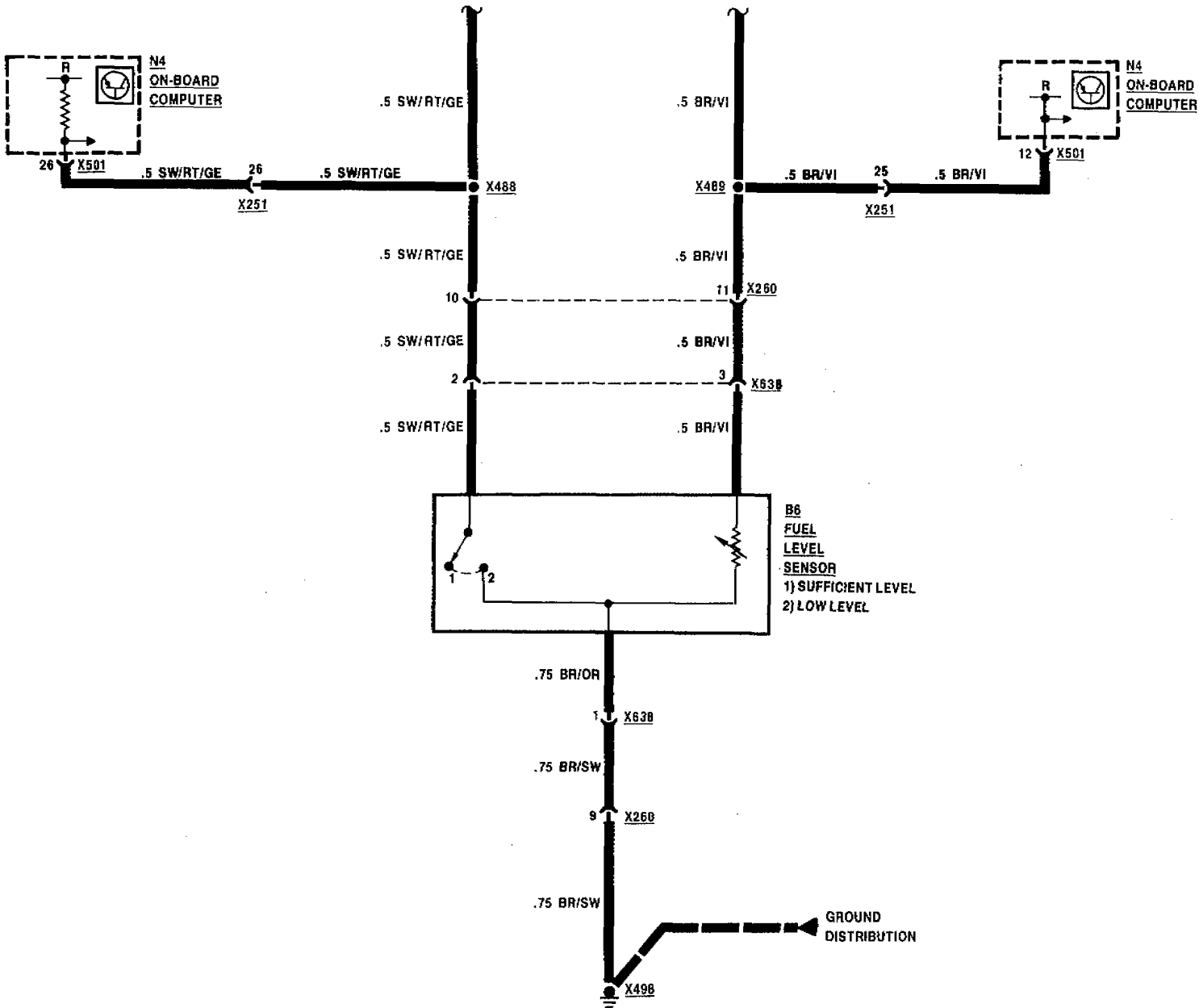
WIRE COLORS	
BL	BLUE
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GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



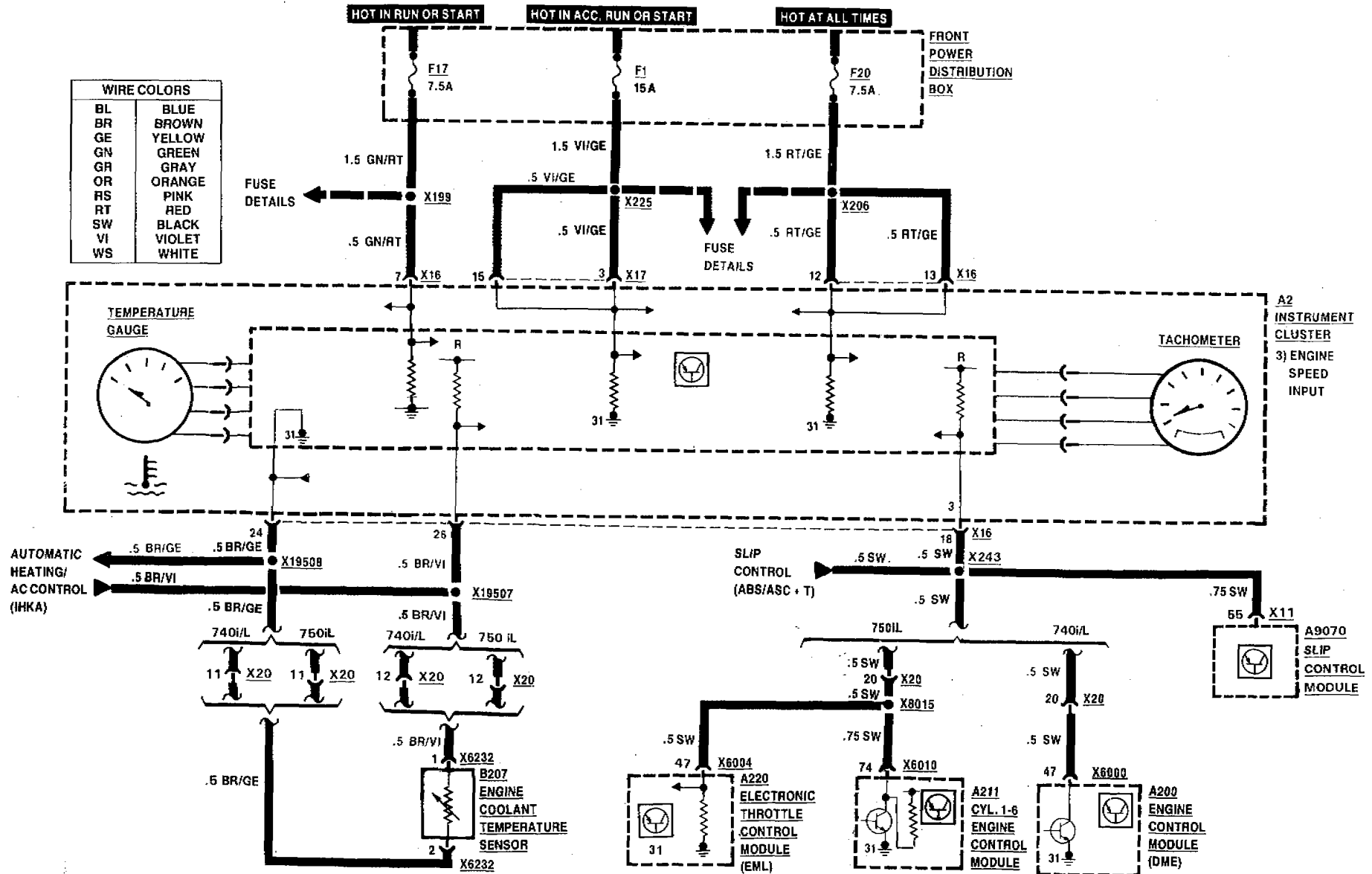
# INSTRUMENT CLUSTER/CHECK CONTROL

## INSTRUMENT CLUSTER GAUGES





# INSTRUMENT CLUSTER/CHECK CONTROL GAUGES





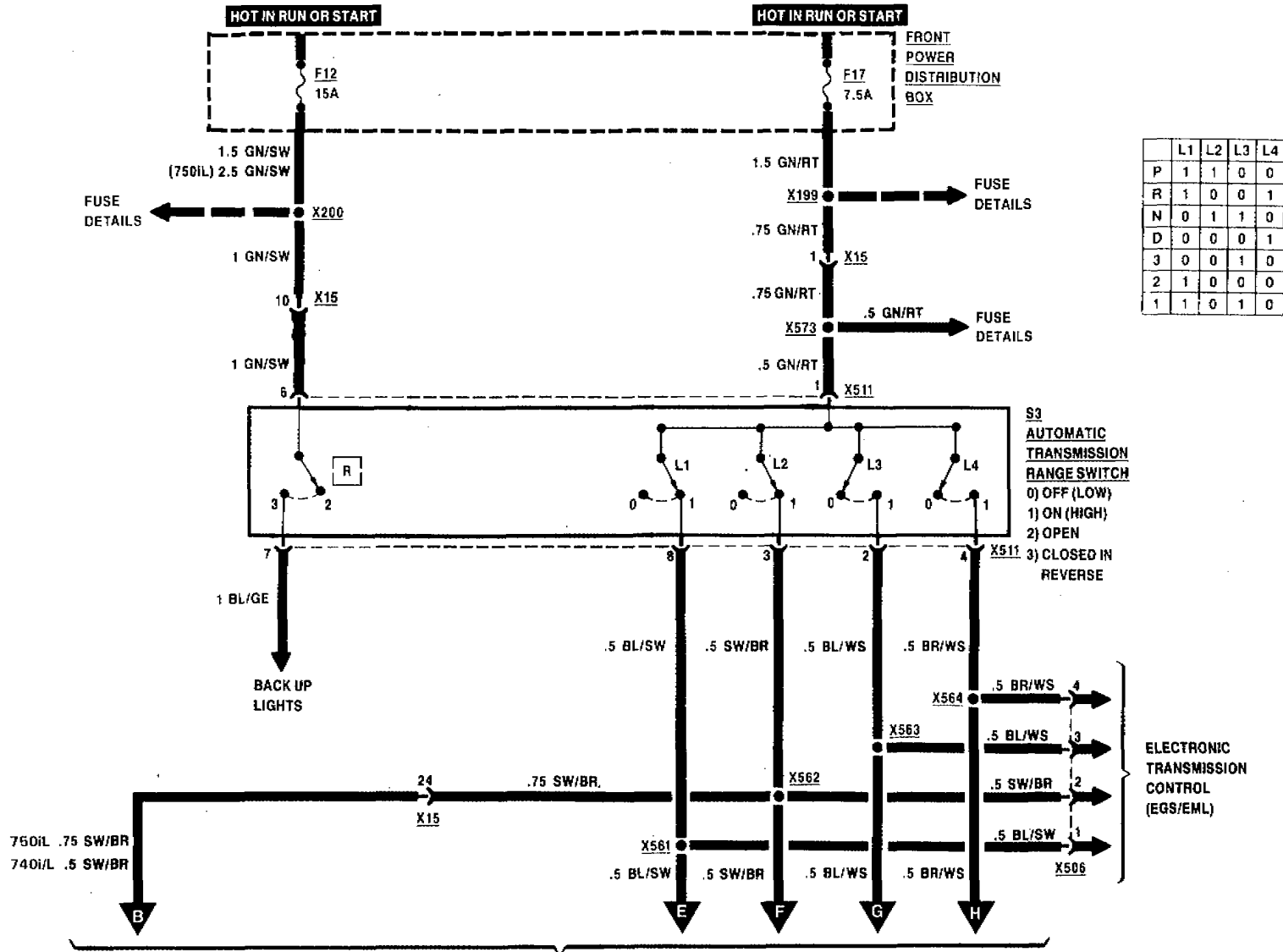
# INSTRUMENT CLUSTER/CHECK CONTROL

## GEAR INDICATOR

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6200-09

93/94



	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

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

750iL .75 SW/BR  
740iL .5 SW/BR

6200-10



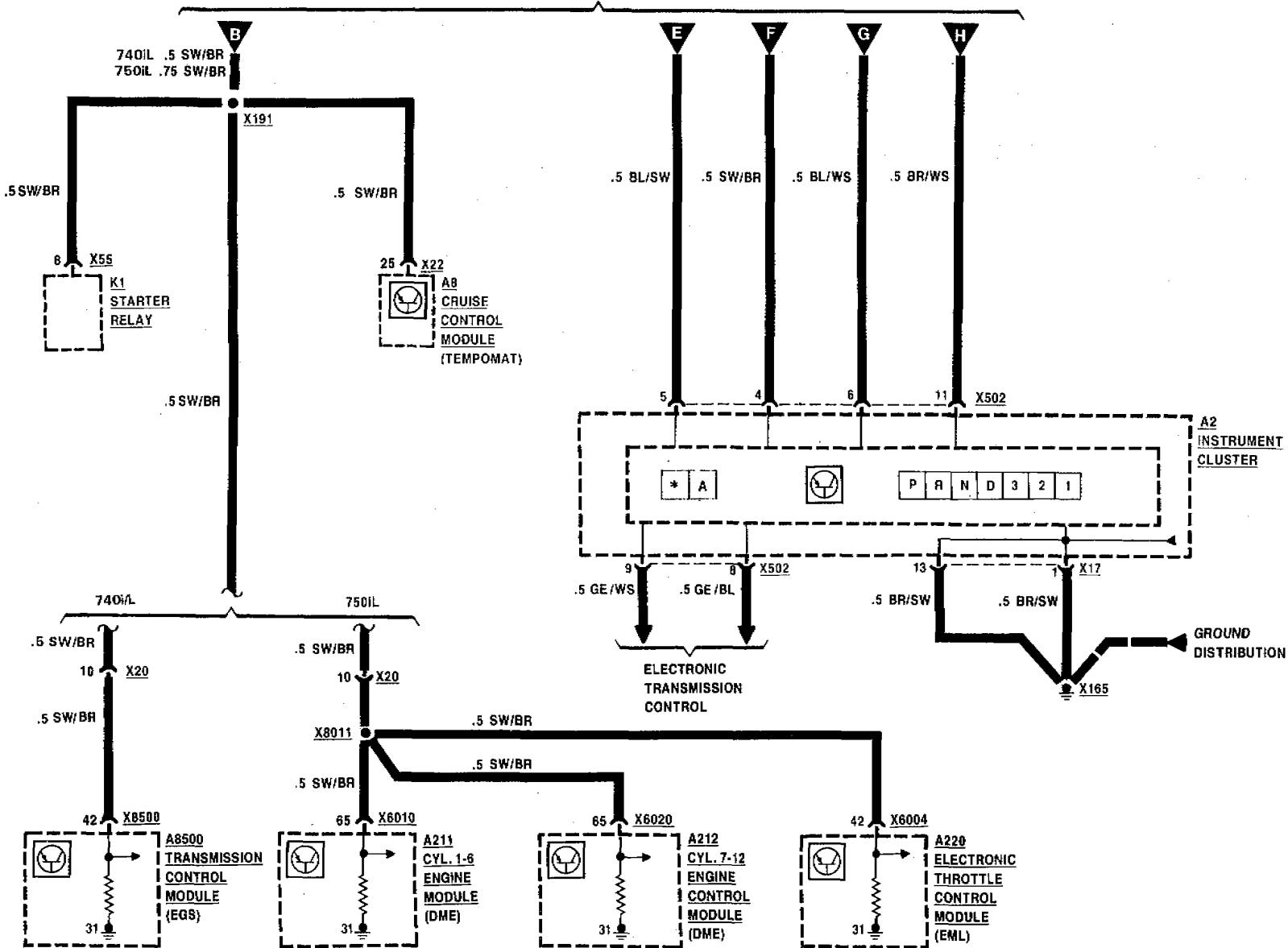


# INSTRUMENT CLUSTER/CHECK CONTROL

## GEAR INDICATOR

6200-09

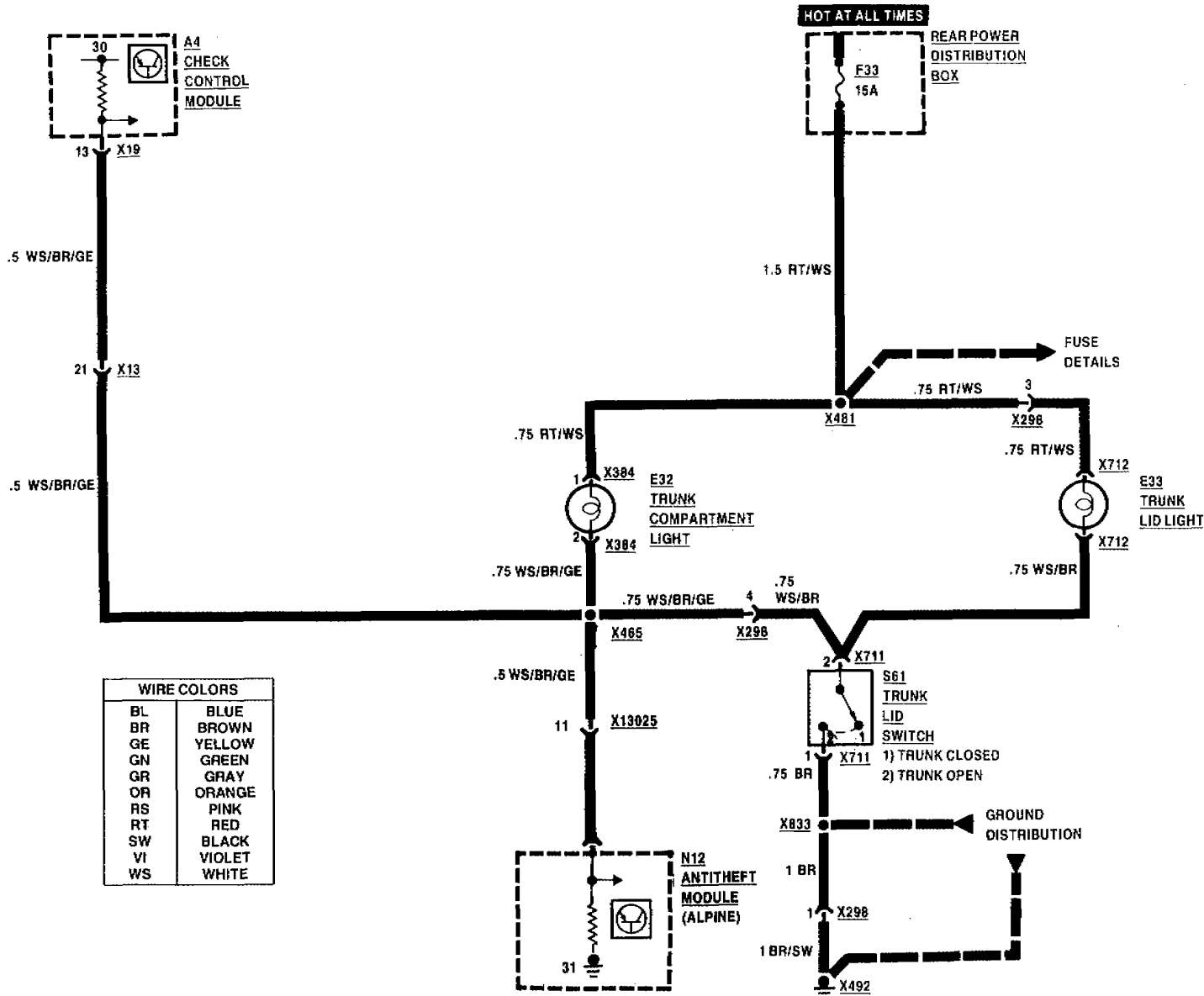
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GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# INSTRUMENT CLUSTER/CHECK CONTROL

## CHECK CONTROL

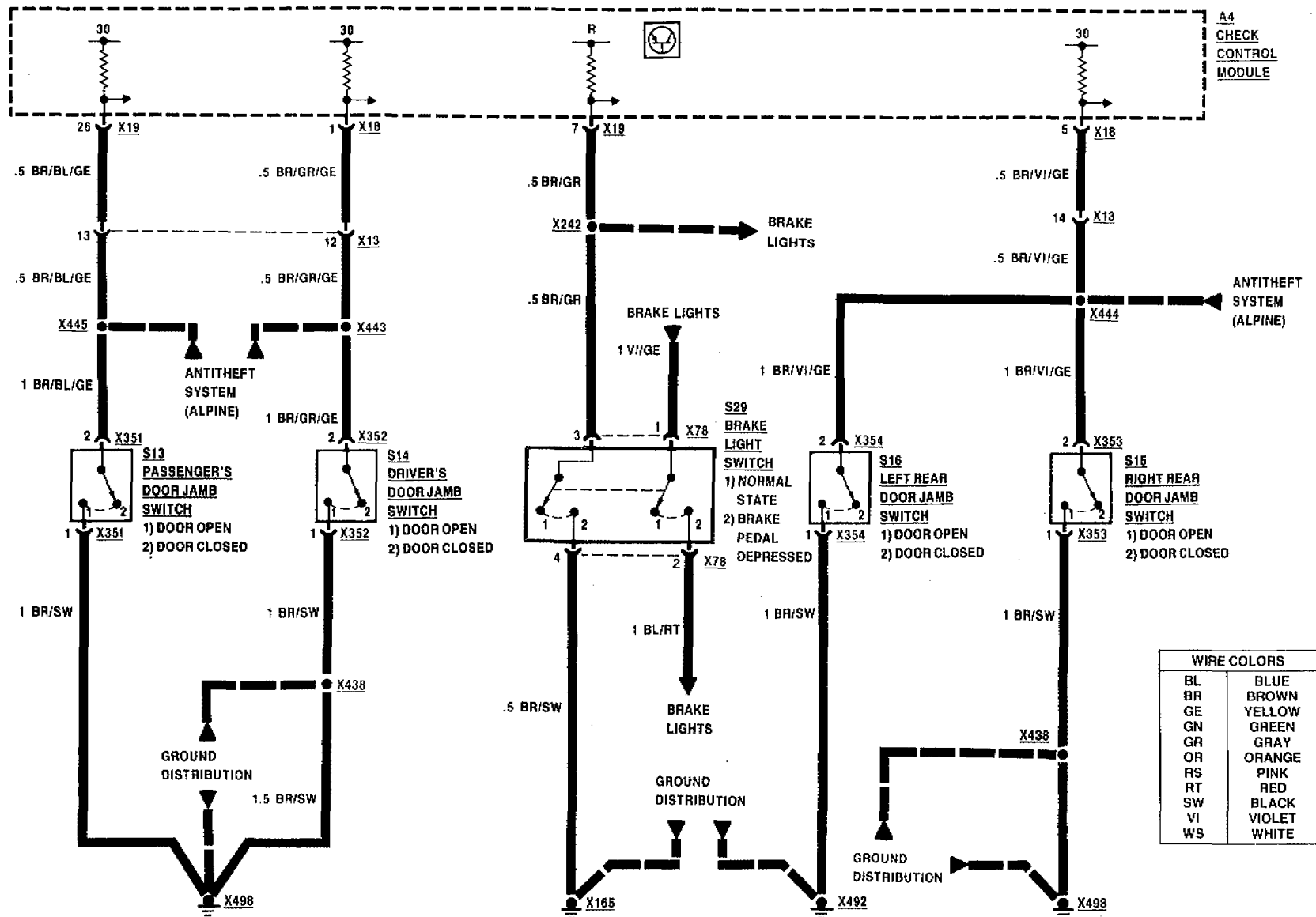






# INSTRUMENT CLUSTER/CHECK CONTROL

## CHECK CONTROL



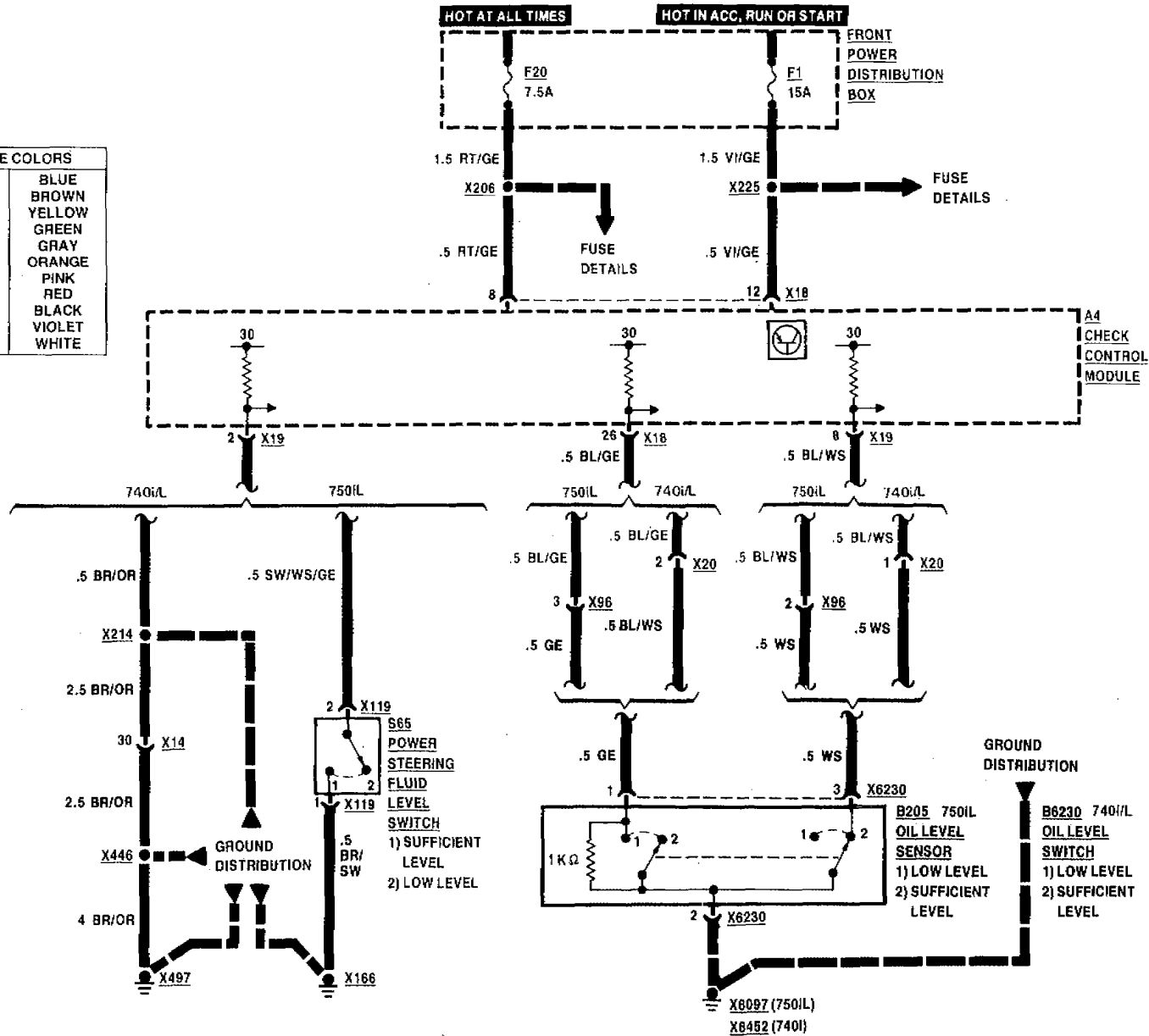




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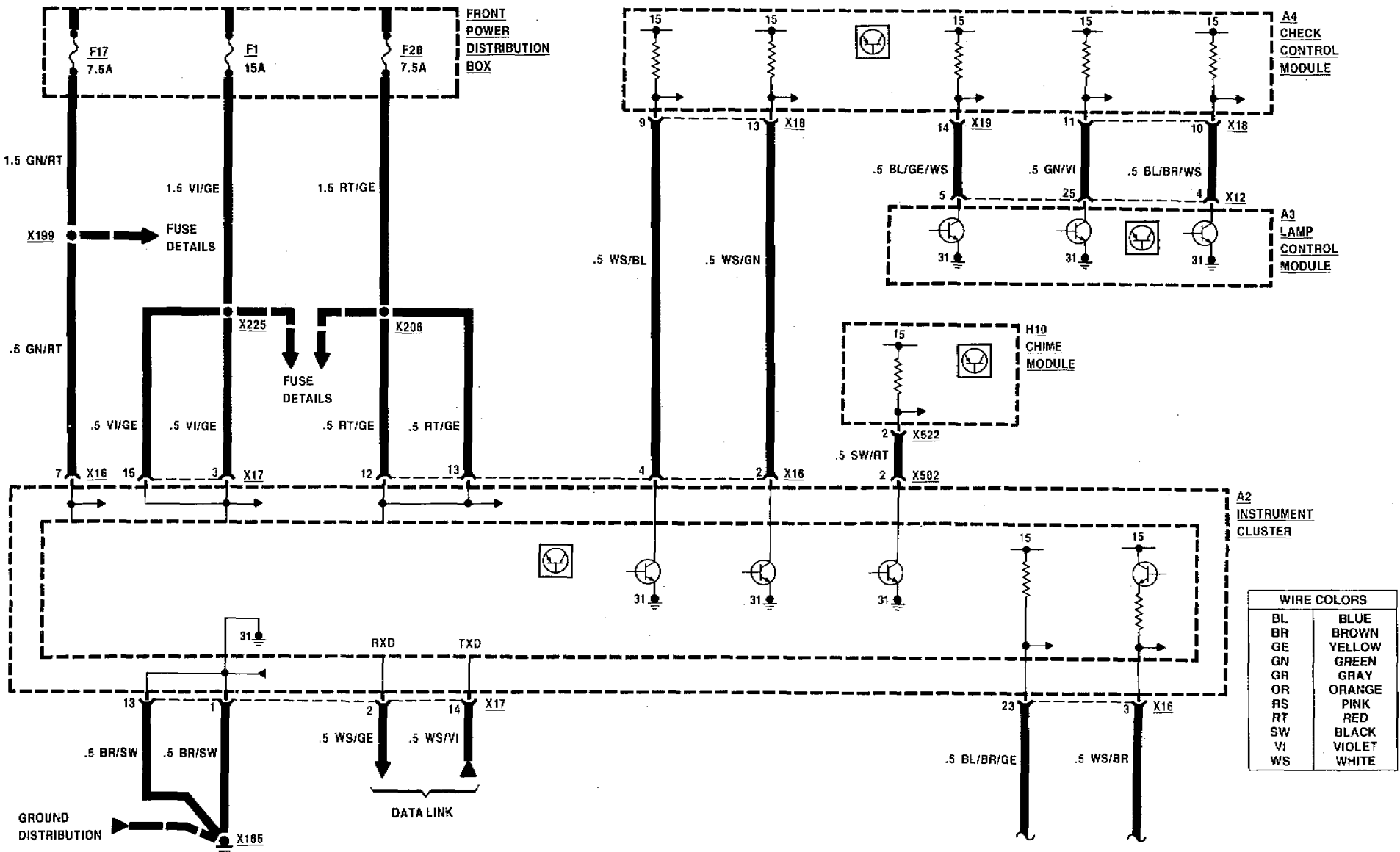
## CHECK CONTROL

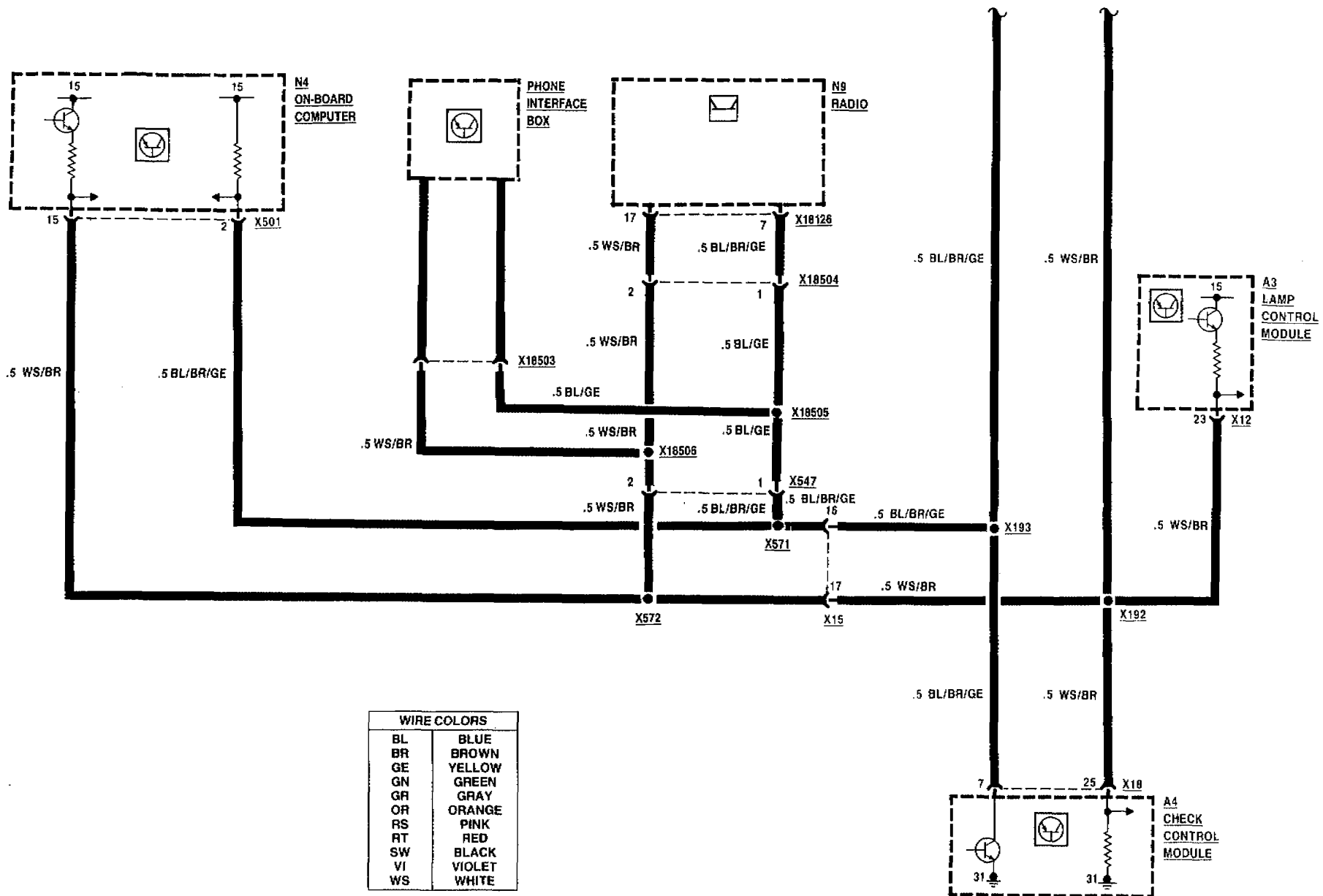
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# INSTRUMENT CLUSTER/CHECK CONTROL DATA LINK

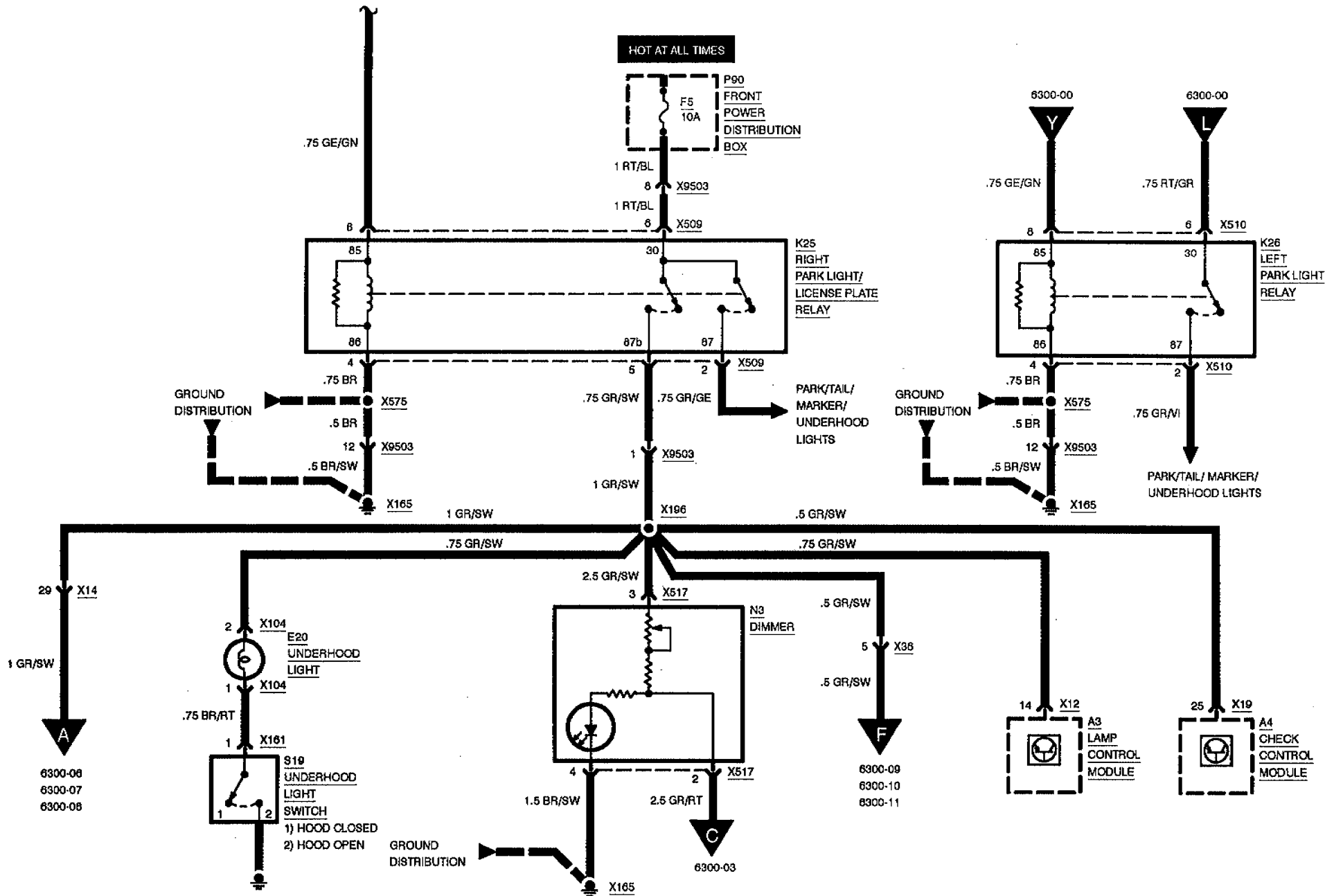
HOT IN RUN OR START    HOT IN ACC, RUN OR START    HOT AT ALL TIMES

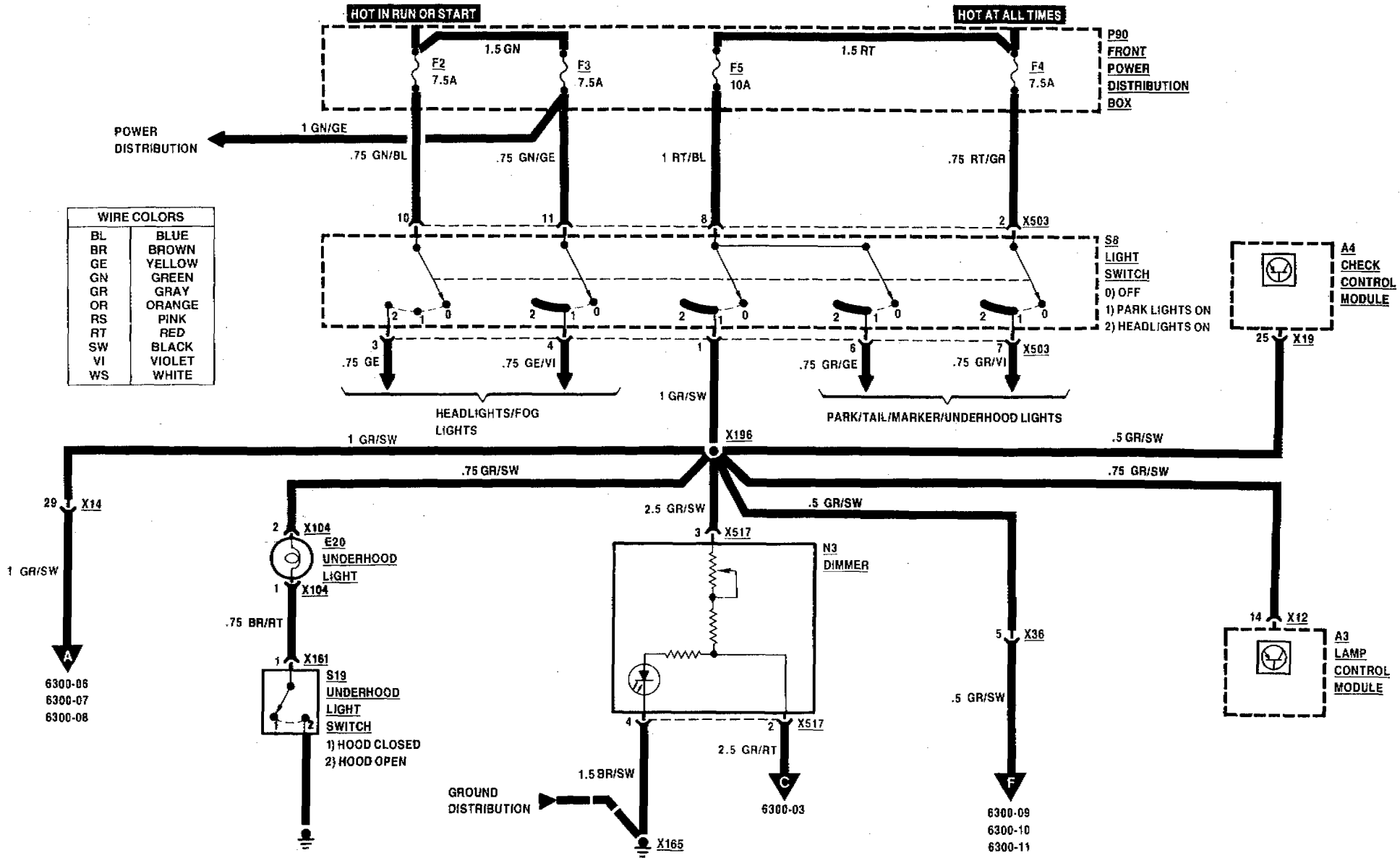












**WIRE COLORS**

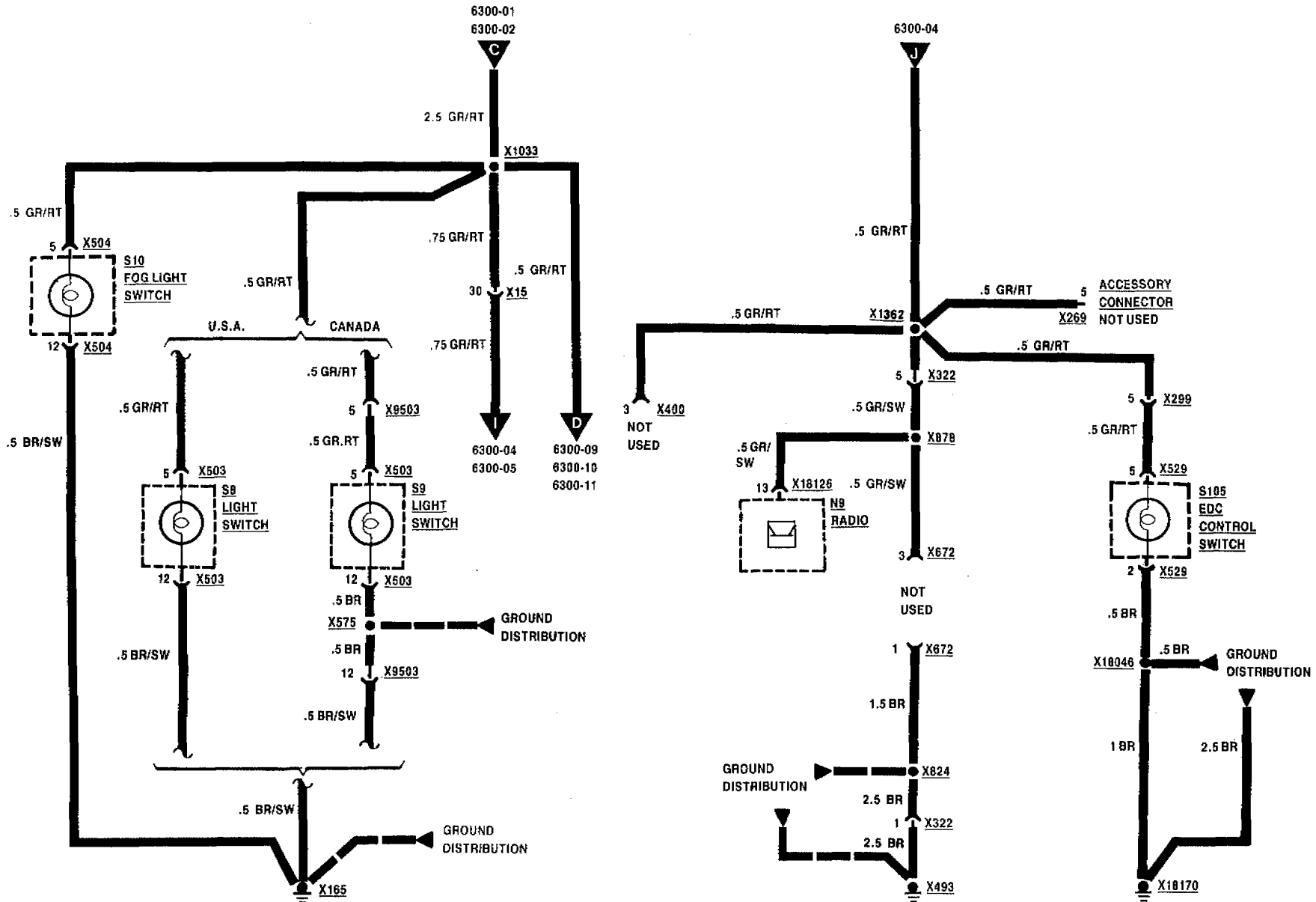
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

6300-06  
6300-07  
6300-08

6300-09  
6300-10  
6300-11

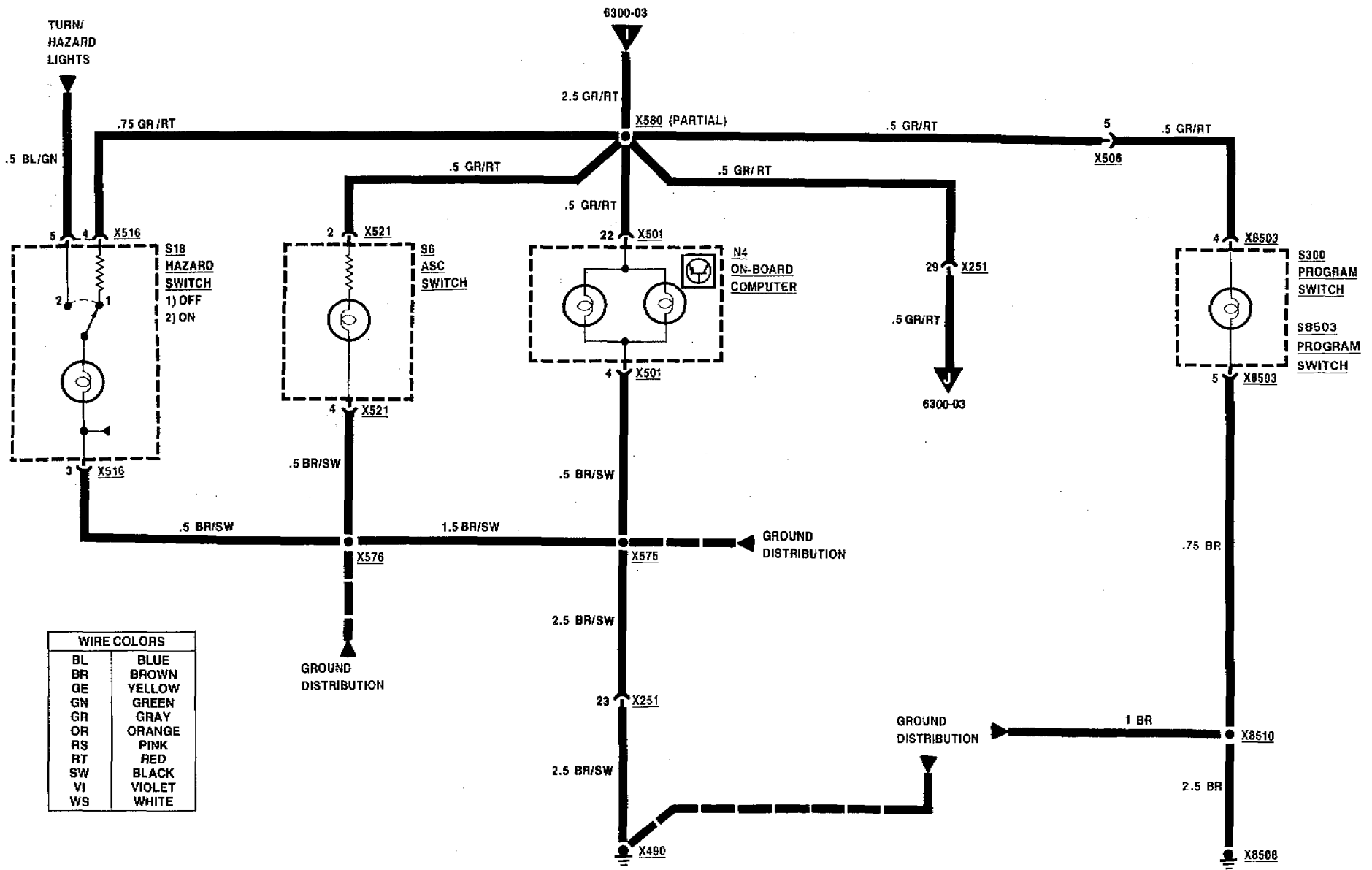


# LIGHT SWITCH DETAILS





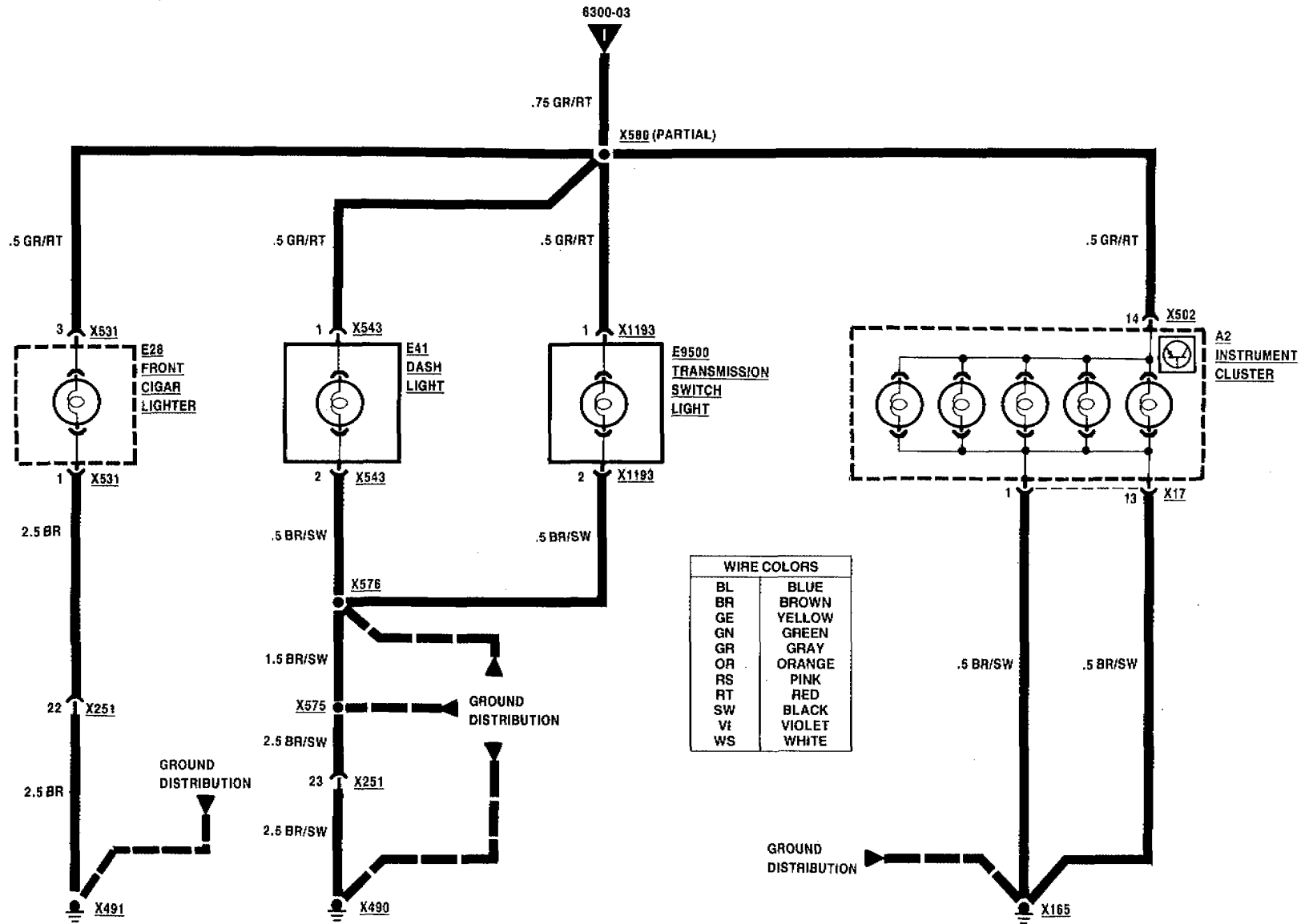
# LIGHT SWITCH DETAILS



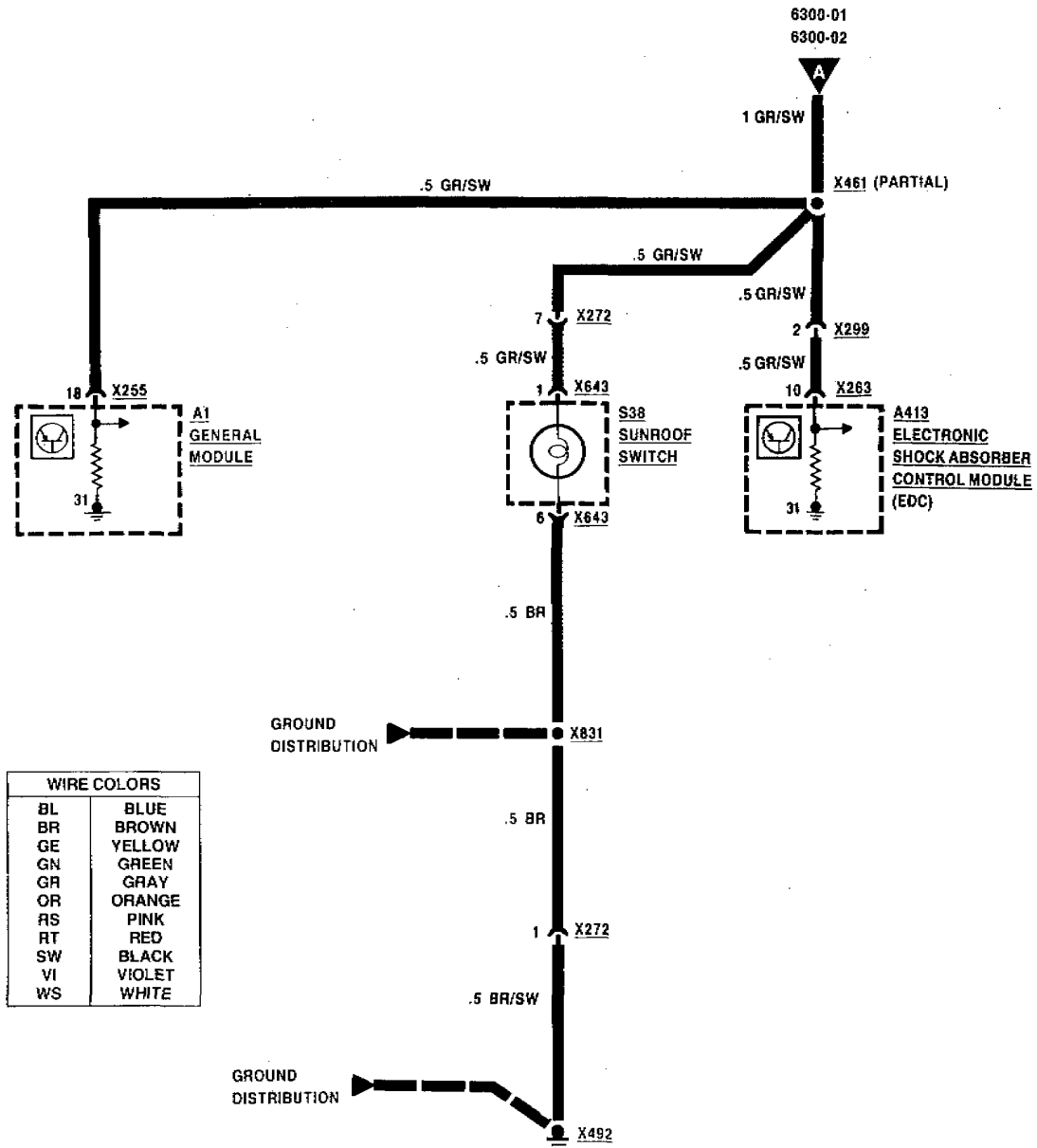
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# LIGHT SWITCH DETAILS



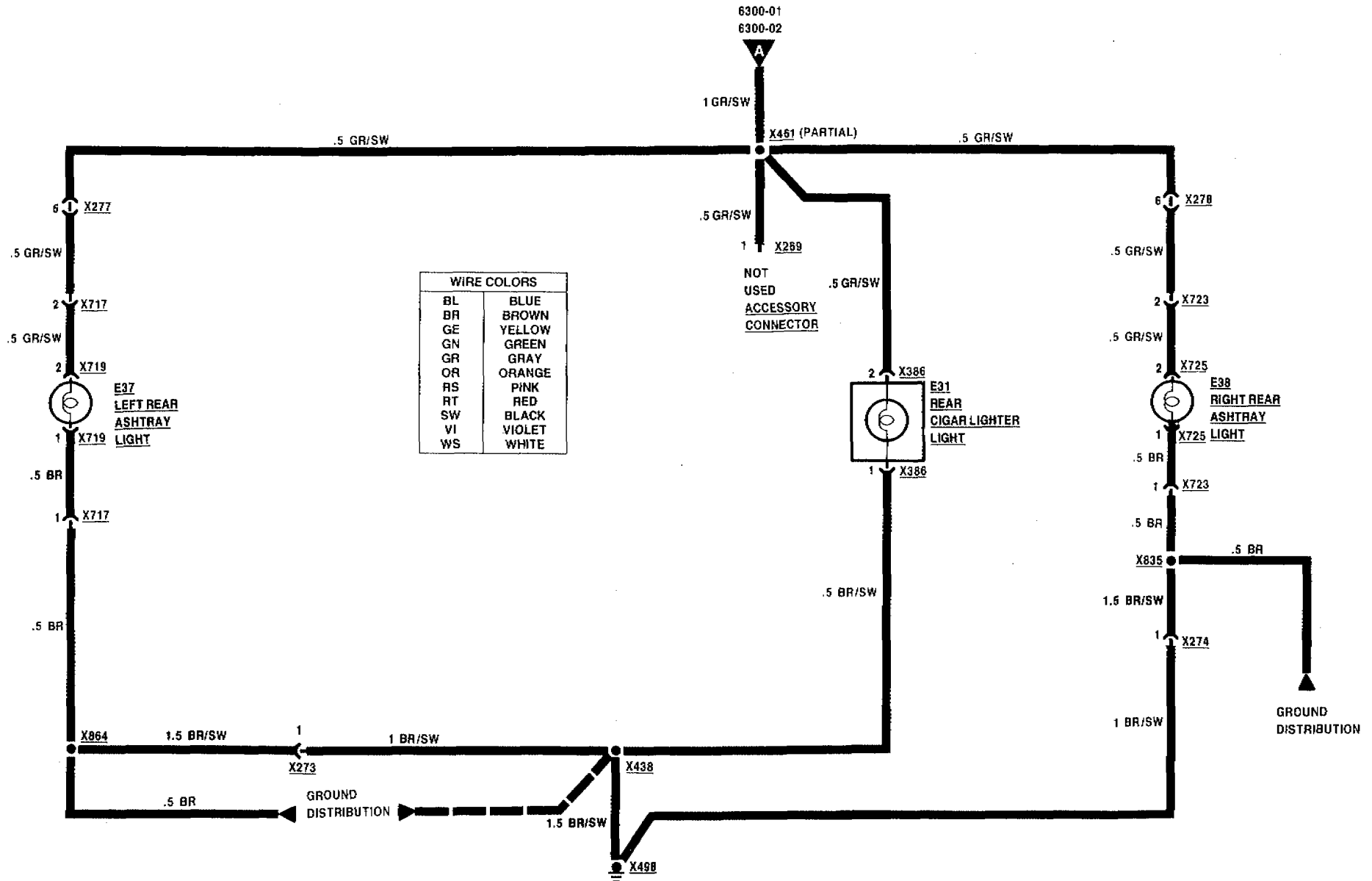
# LIGHT SWITCH DETAILS



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



# LIGHT SWITCH DETAILS



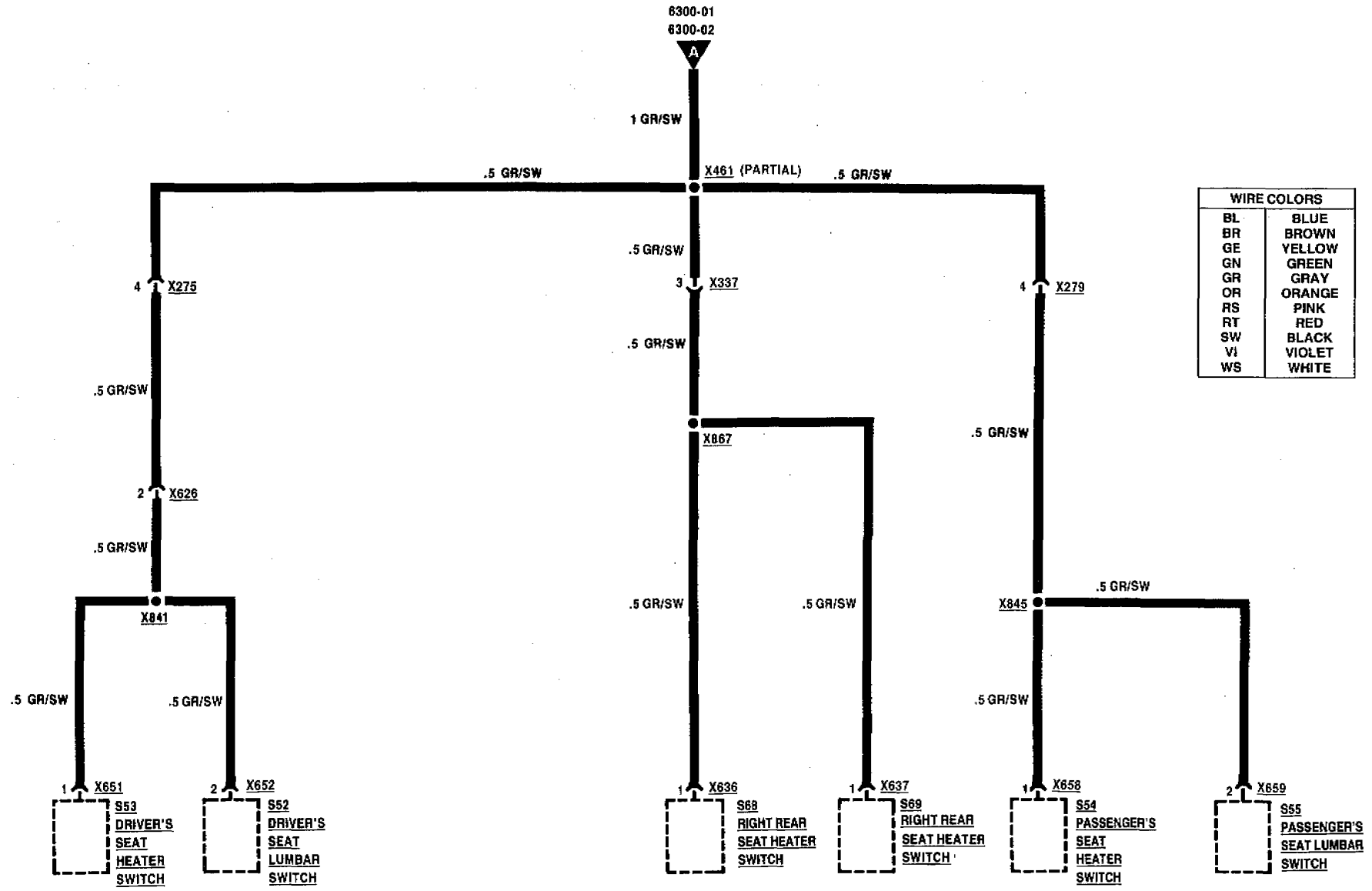
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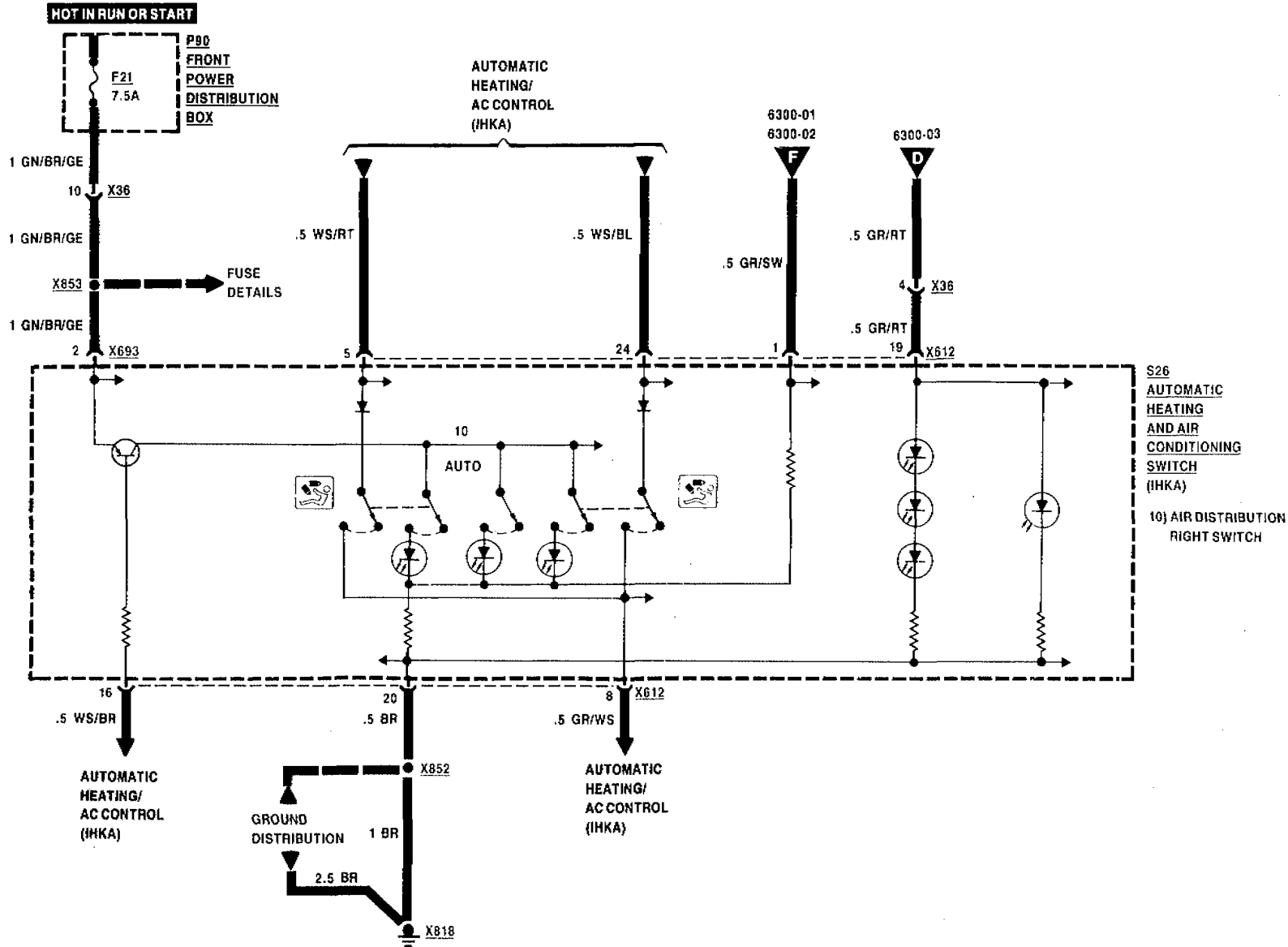


# LIGHT SWITCH DETAILS



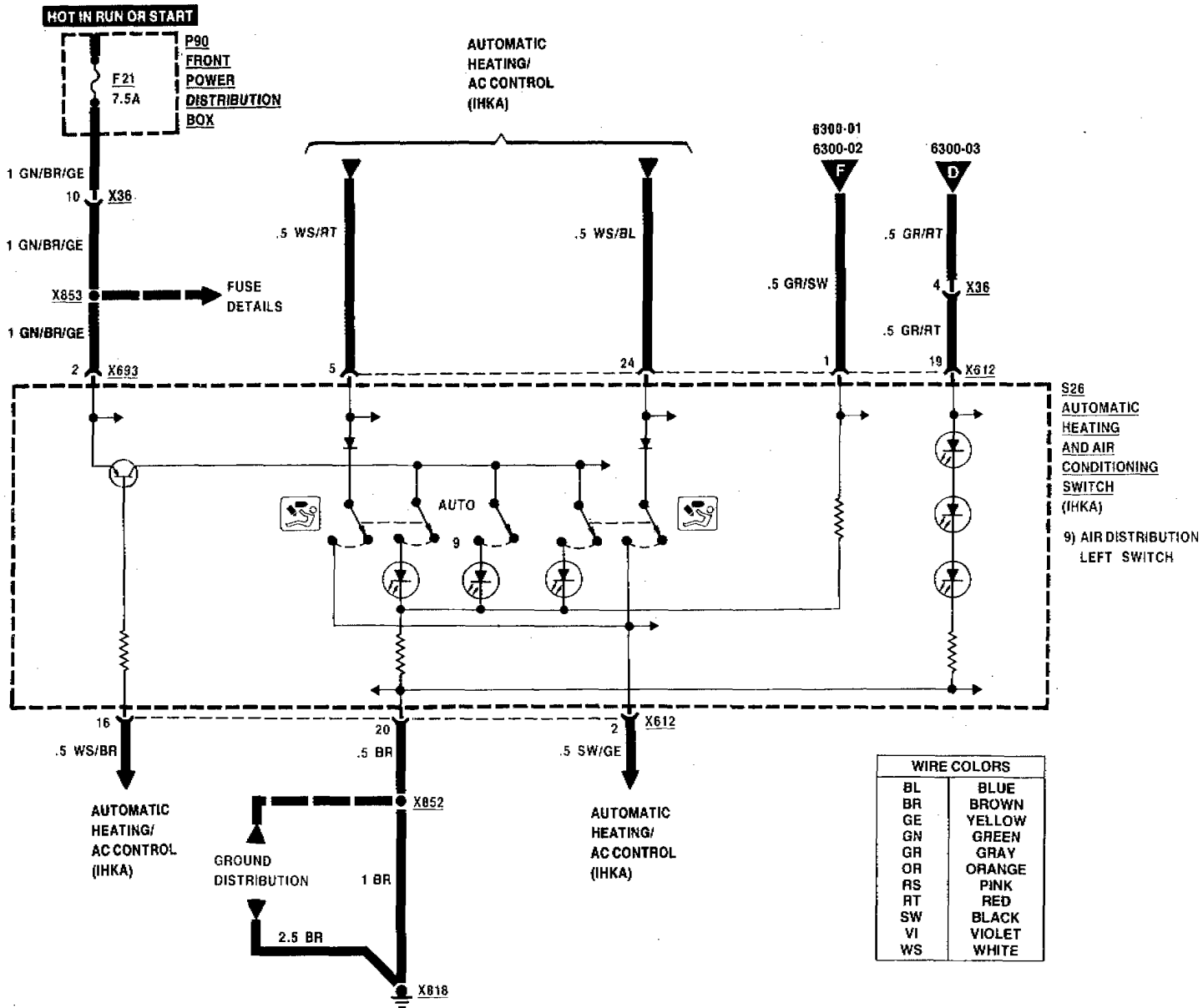
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

**LIGHT SWITCH DETAILS**



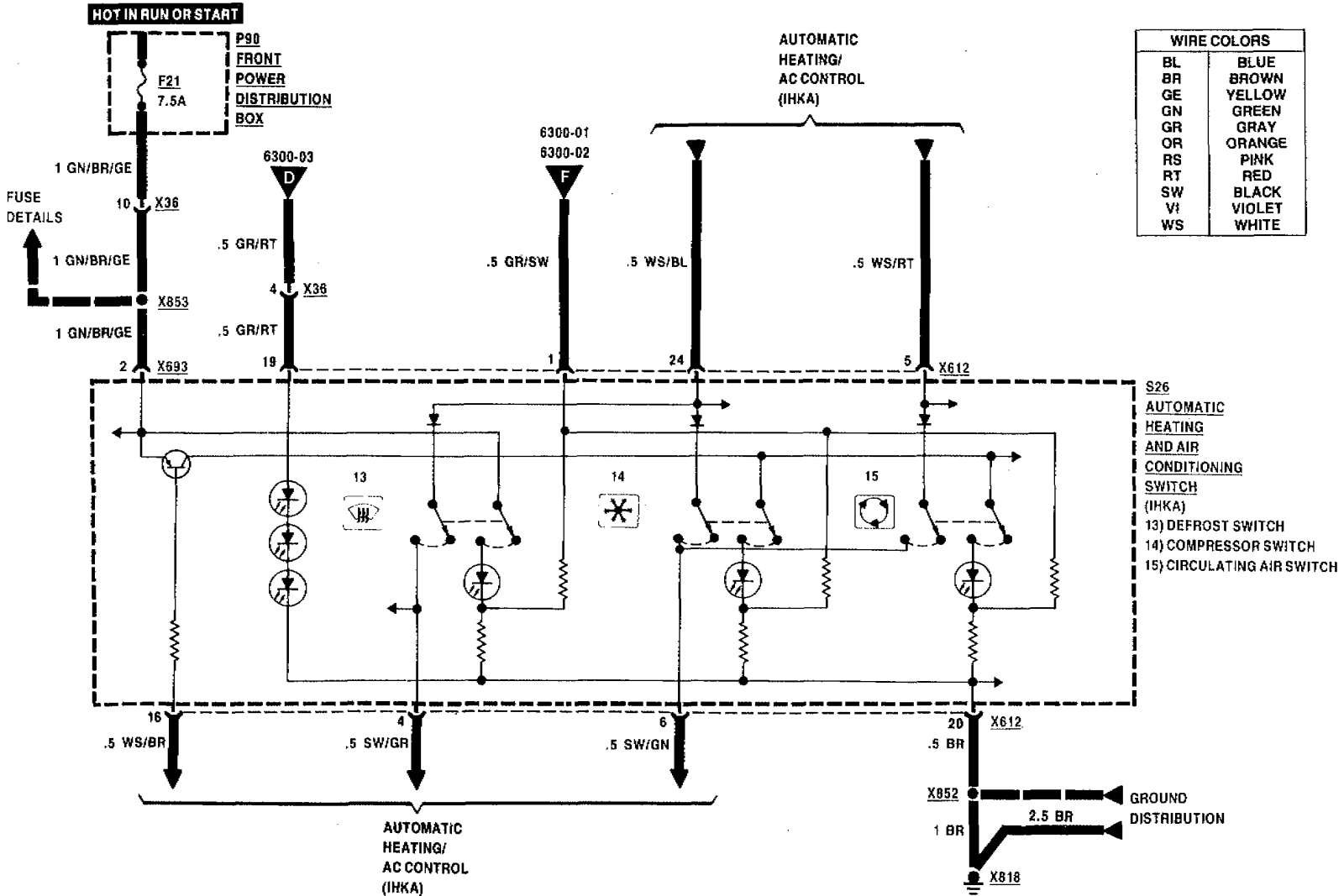
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

# LIGHT SWITCH DETAILS

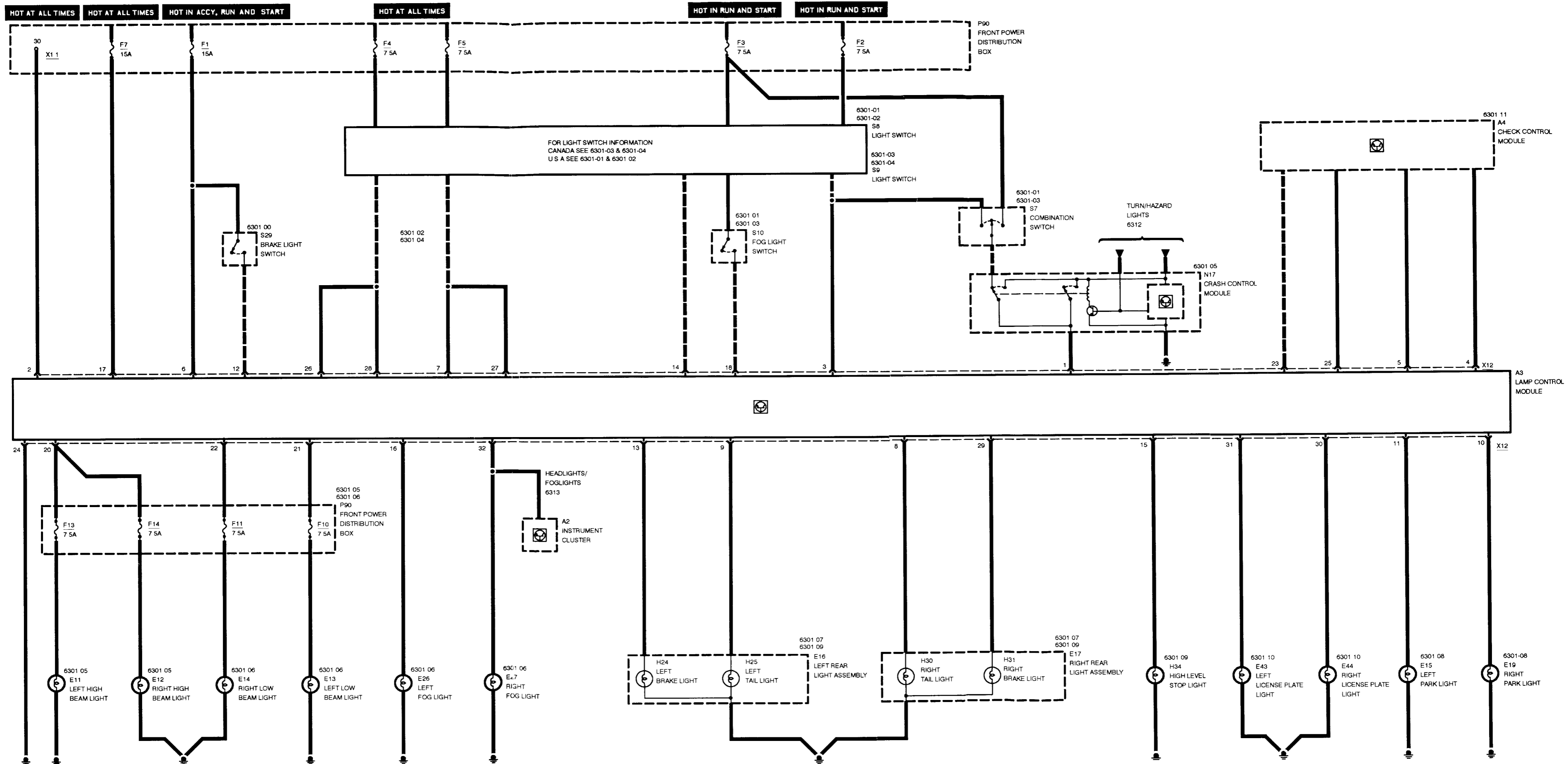


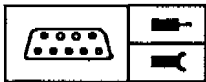


# LIGHT SWITCH DETAILS







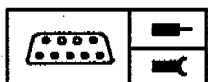


## Pin Assignments

### X12

Pin	Type	Description/Function	Connection
1	E	Power supply high beam relay	Crash control module, N17
2	E	Power supply (terminal 30)	Front power distribution box
3	E	Signal low beam relay	Light switch
4	A	Data line	Check control module, A4
5	A	Data line	Check control module, A4
6	E	Power supply (terminal 30)	Front power distribution box
7	E	Signal, right rear parking light	Light switch
8	A	Signal, right rear parking light	Right rear light assembly, E17
9	A	Signal, left rear parking light	Left rear light assembly, E16
10	A	Signal, right front parking light	Right park light, E19
11	A	Signal, left front parking light	Left park light, E15
12	E	Brake signal	Brake light switch, S29
13	A	Signal, left brake light	Left brake light, H24
14	E	Signal, license plate lights	Light switch
15	A	Signal, high level stop lights	High level stop light, H34
16	A	Signal, left fog light	Left fog light, E26
17	E	Power supply, fog lights	Front power distribution box
18	E	Signal, fog light relay	Fog light switch, S10
19		Not used	
20	A	Signal, high beam lights	Front power distribution box
21	A	Signal, left low beam	Front power distribution box
22	A	Signal, right low beam	Front power distribution box
23	E	Control line from instrument cluster	Check control module, A4
24	M	Ground	Ground point
25	E	Signal, battery voltage (terminal 15)	Check control module, A4
26	E	Signal, left rear parking light	Light switch
27	E	Signal, right parking light	Light switch
28	E	Signal, left parking light	Light switch
29	A	Signal, right brake light	Brake light right
30	A	Signal, right license plate light	Right license plate light, E44

E = Input, A = Output, M = Ground



## Pin Assignments

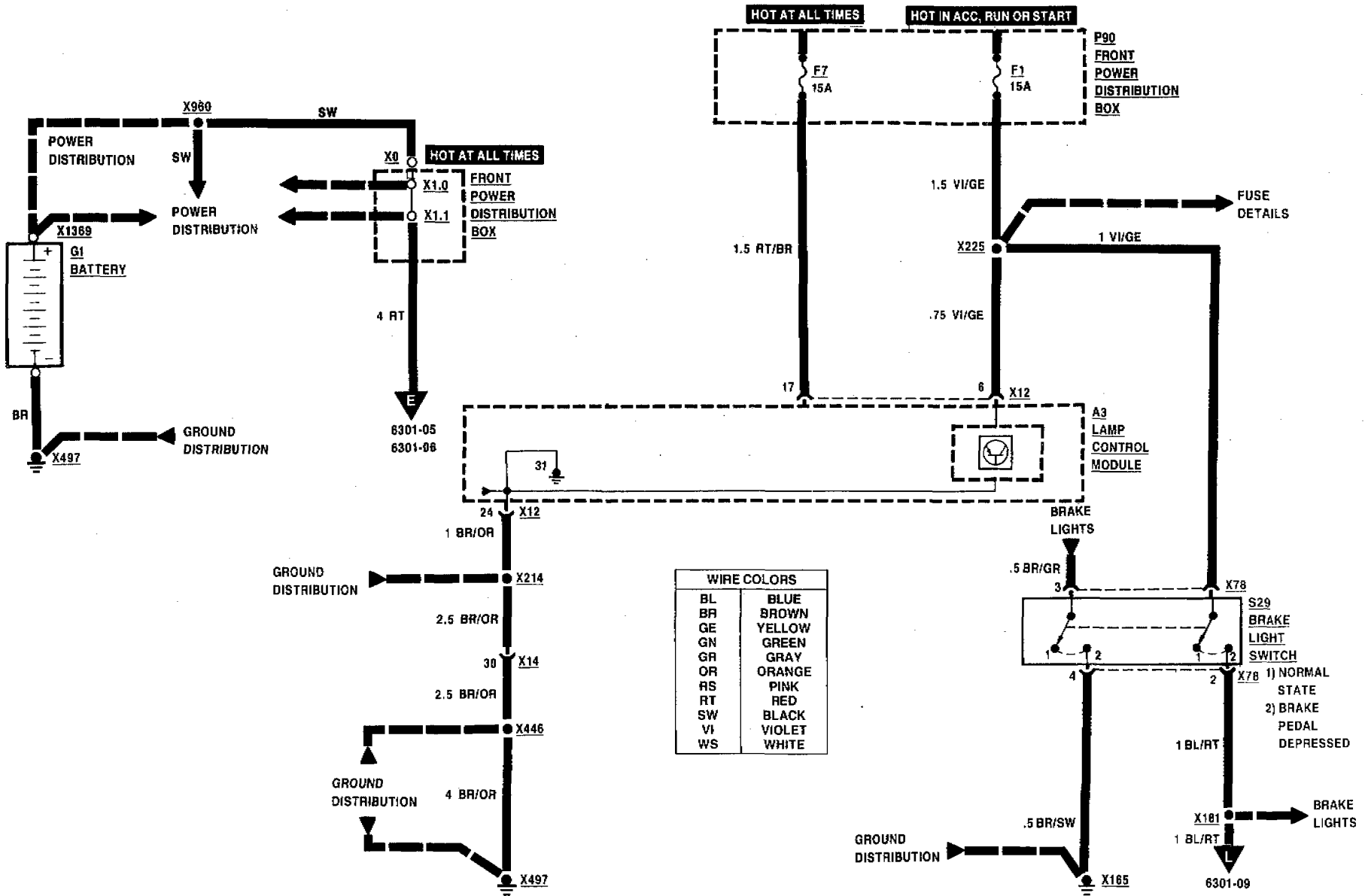
Pin	Type	Description/Function	Connection
31	A	Signal, left license plate light	Left license plate light, E43
32	A	Signal, right fog light	Right fog light, E27
33		Not used	
34		Not used	
35		Not used	

E = Input, A = Output, M = Ground





# LAMP MONITOR (LKM)





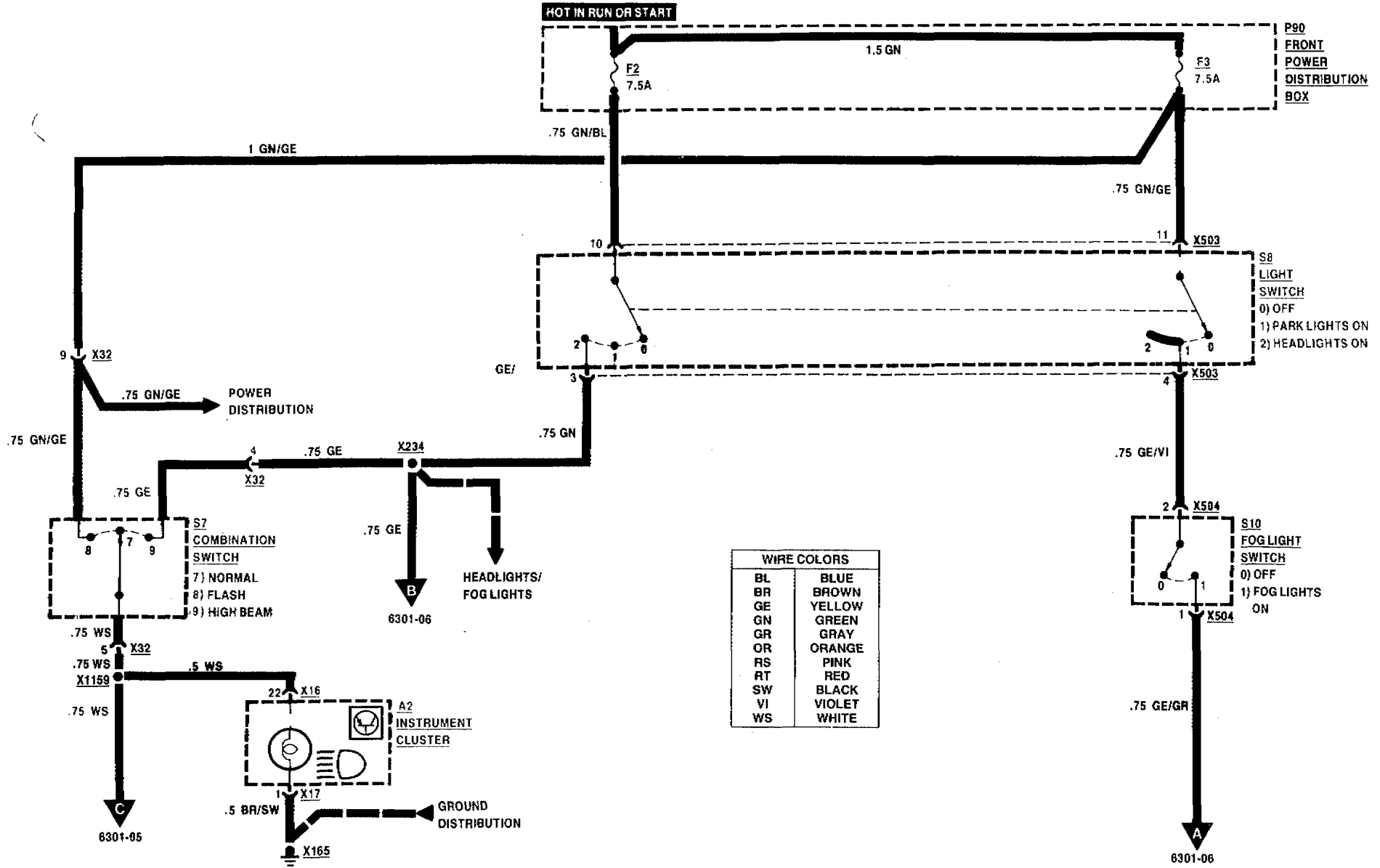
# LAMP MONITOR (LKM)

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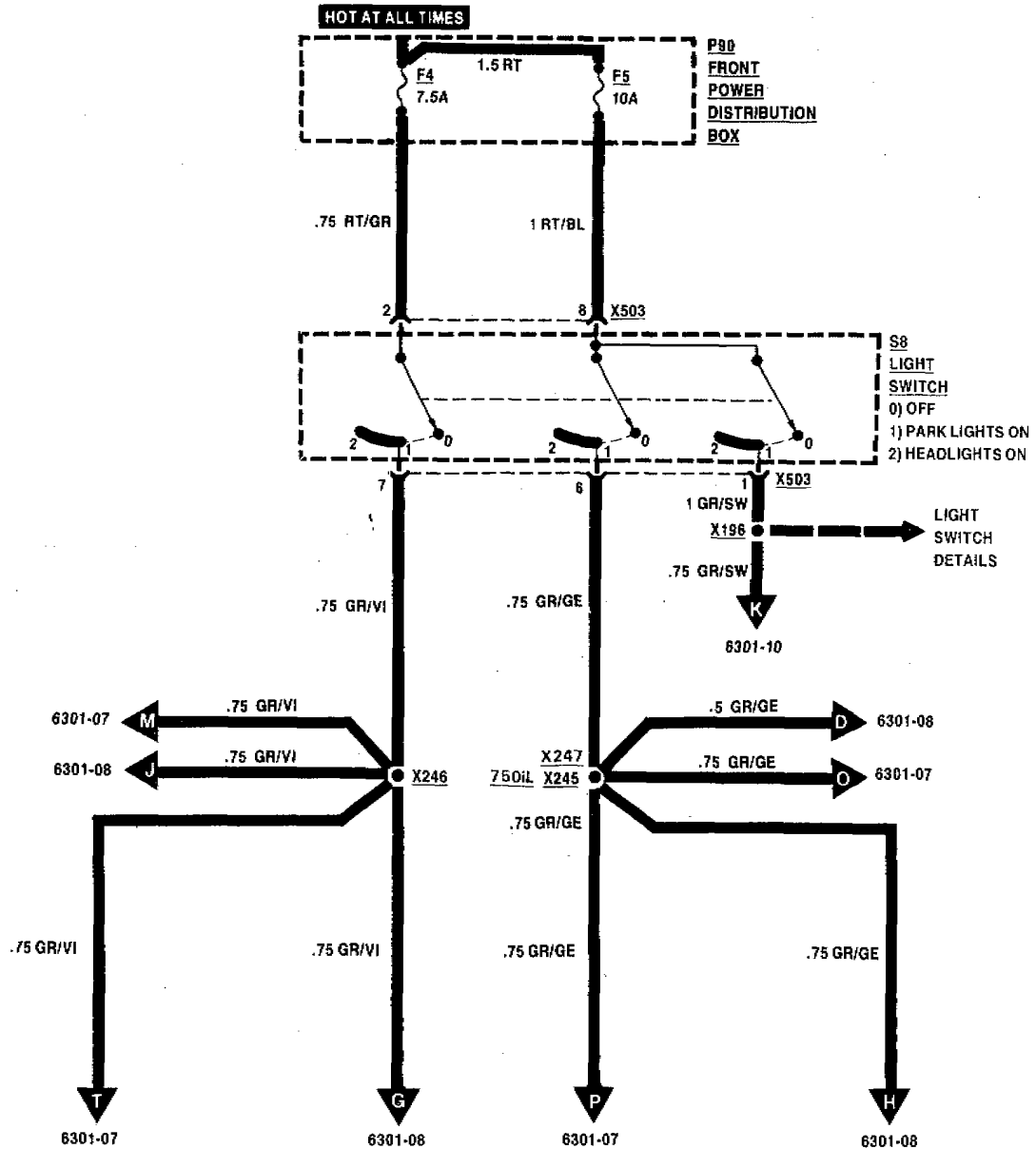
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# LAMP MONITOR (LKM)

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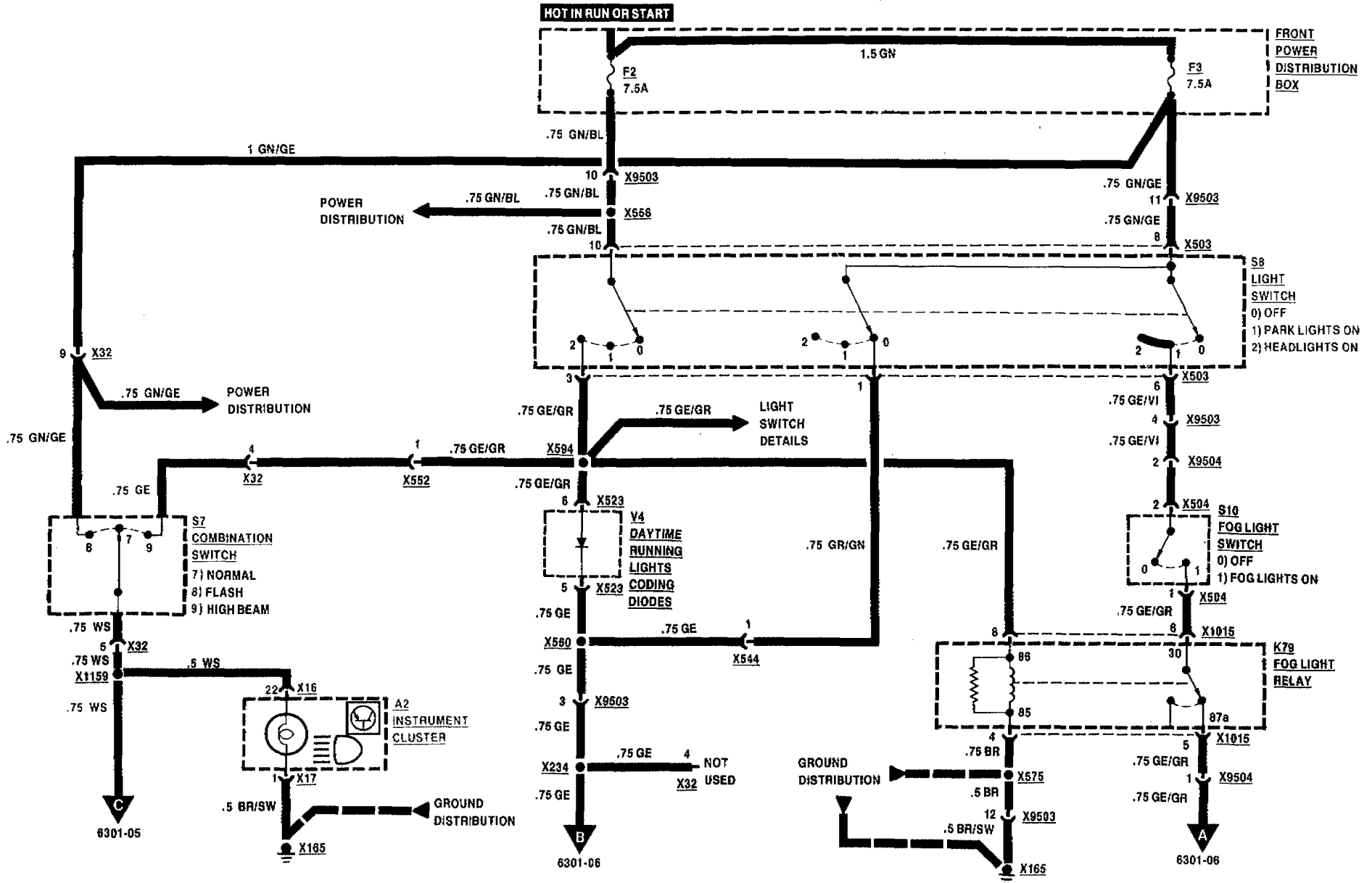
# LAMP MONITOR (LKM)

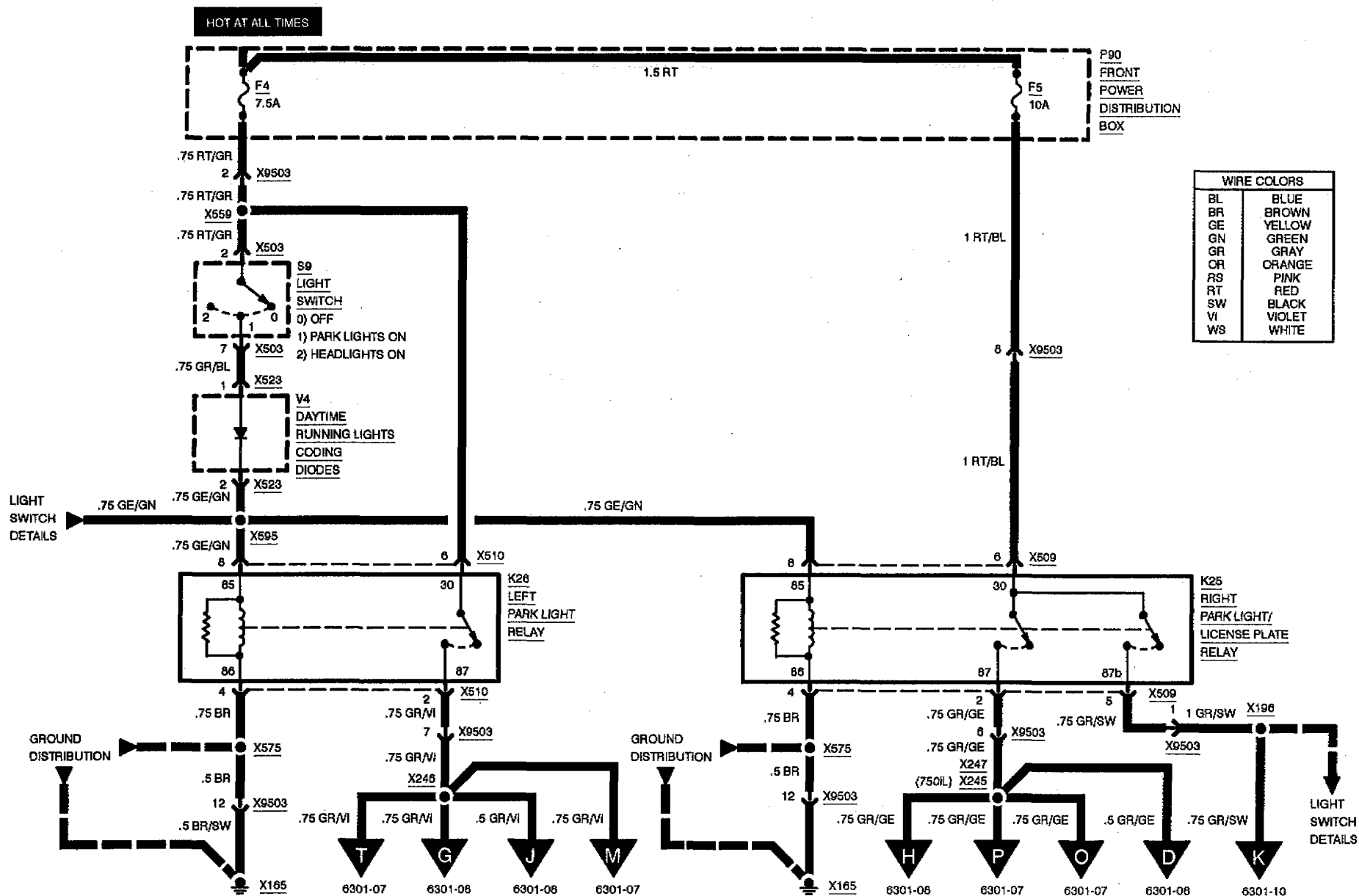
# CANADA

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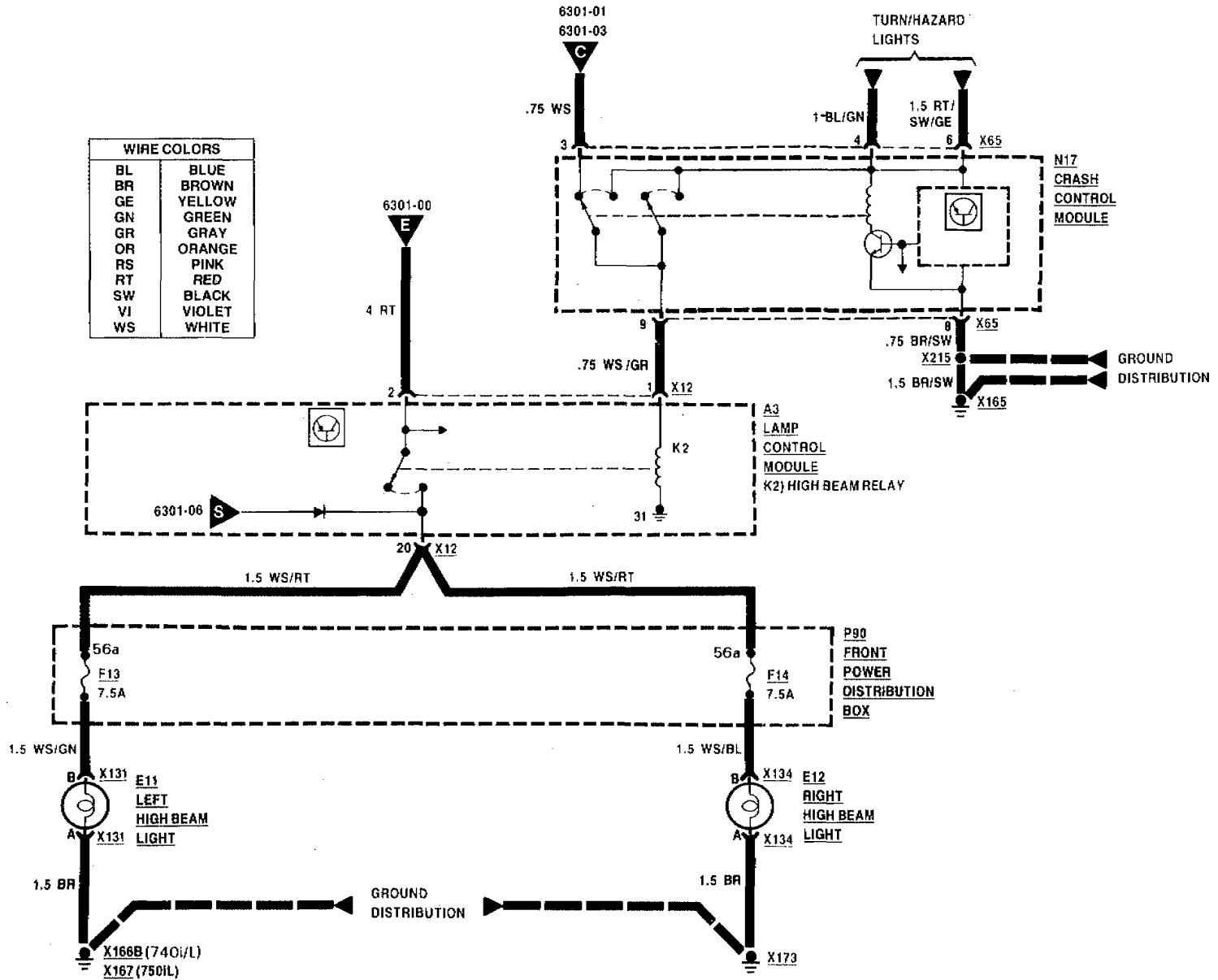






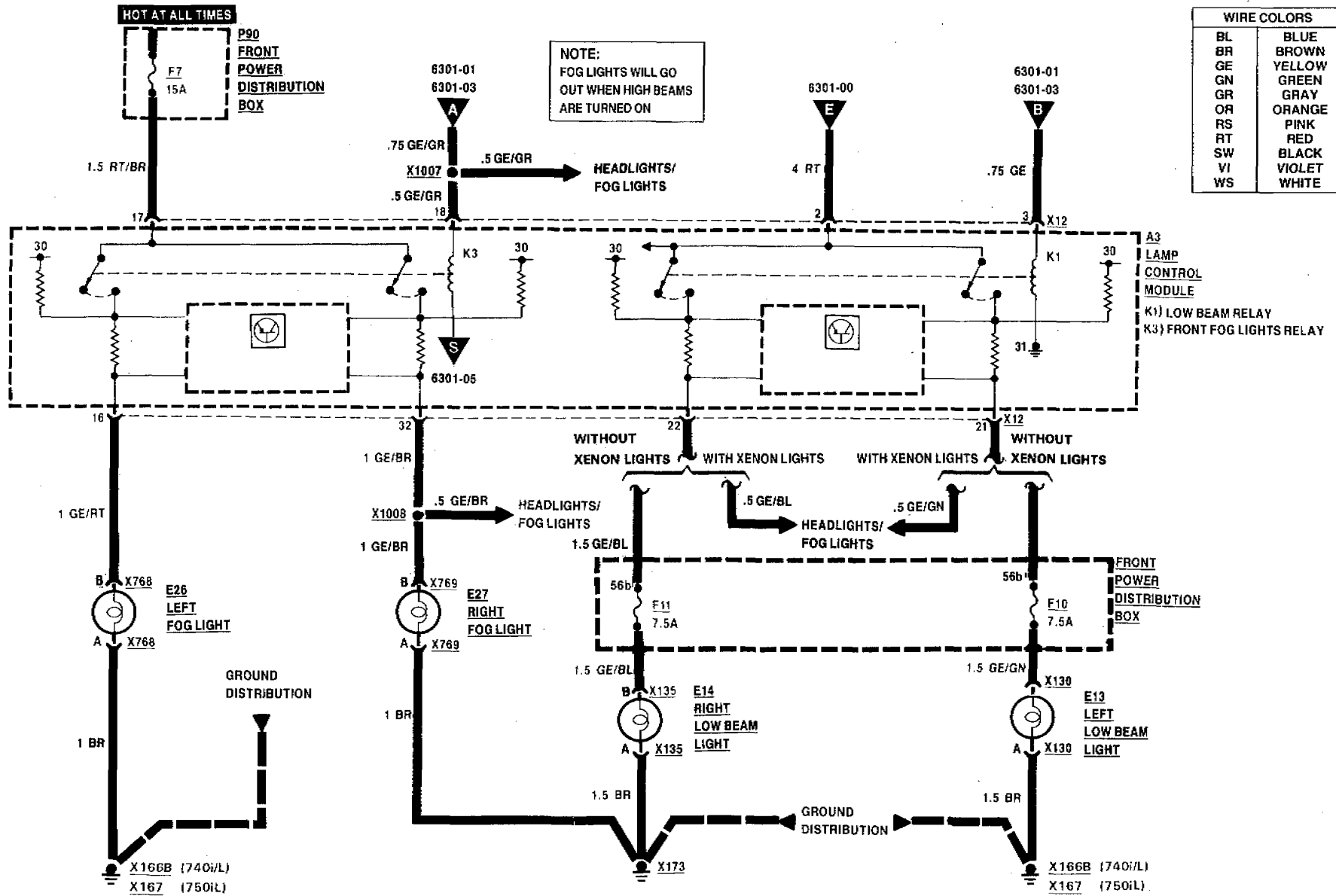
# LAMP MONITOR (LKM)

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





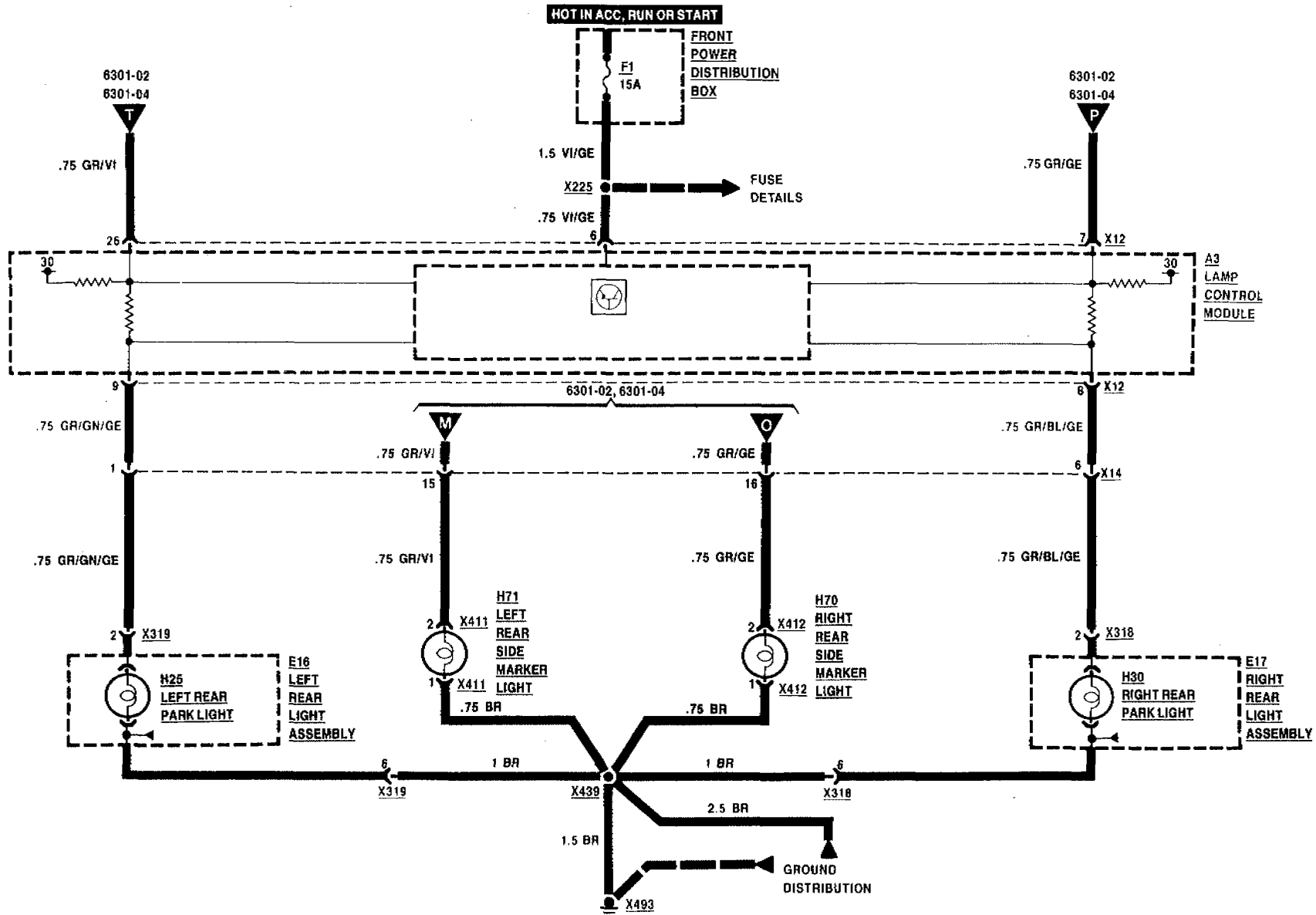
# LAMP MONITOR (LKM)



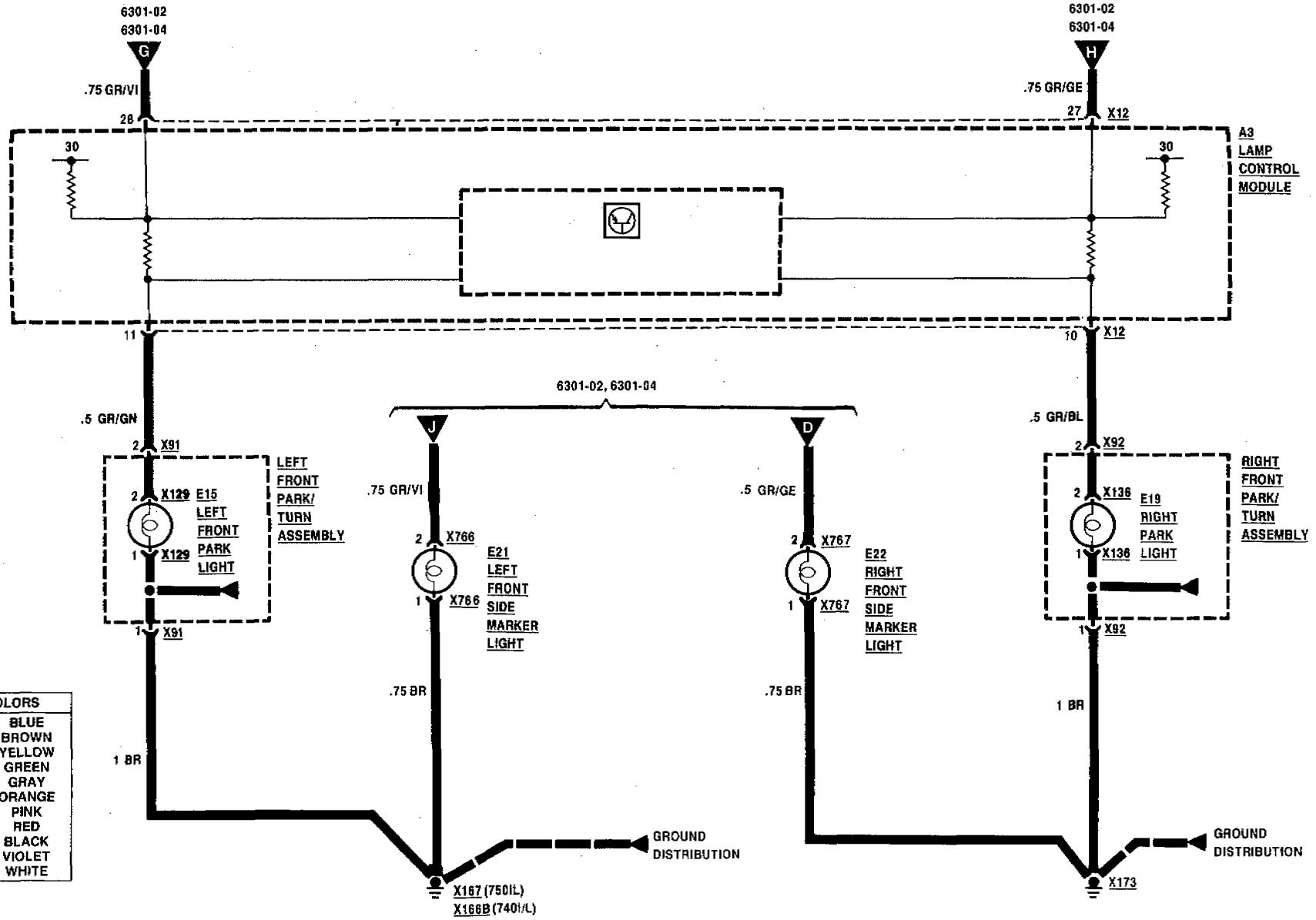




# LAMP MONITOR (LKM)



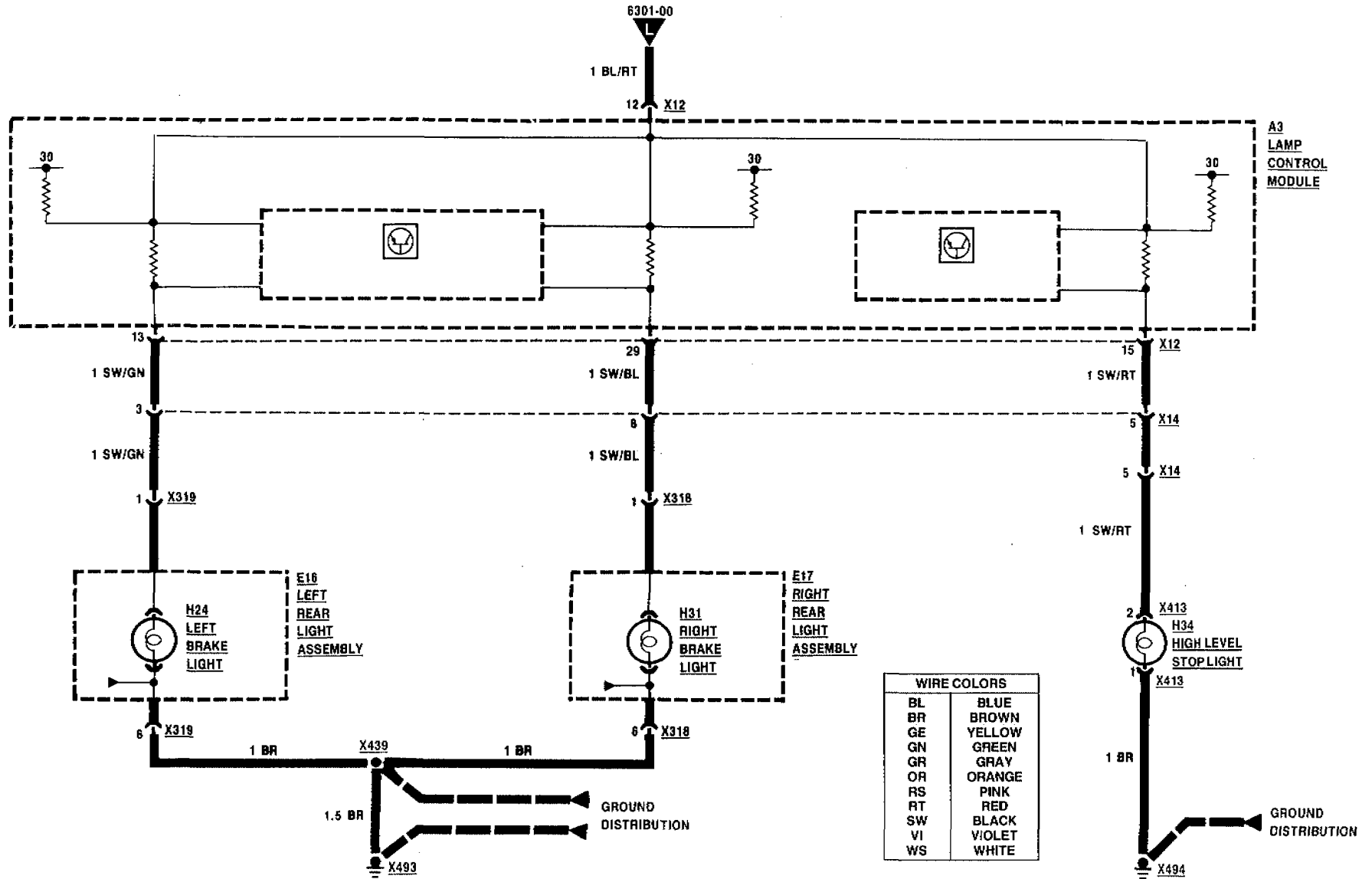
# LAMP MONITOR (LKM)



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



# LAMP MONITOR (LKM)

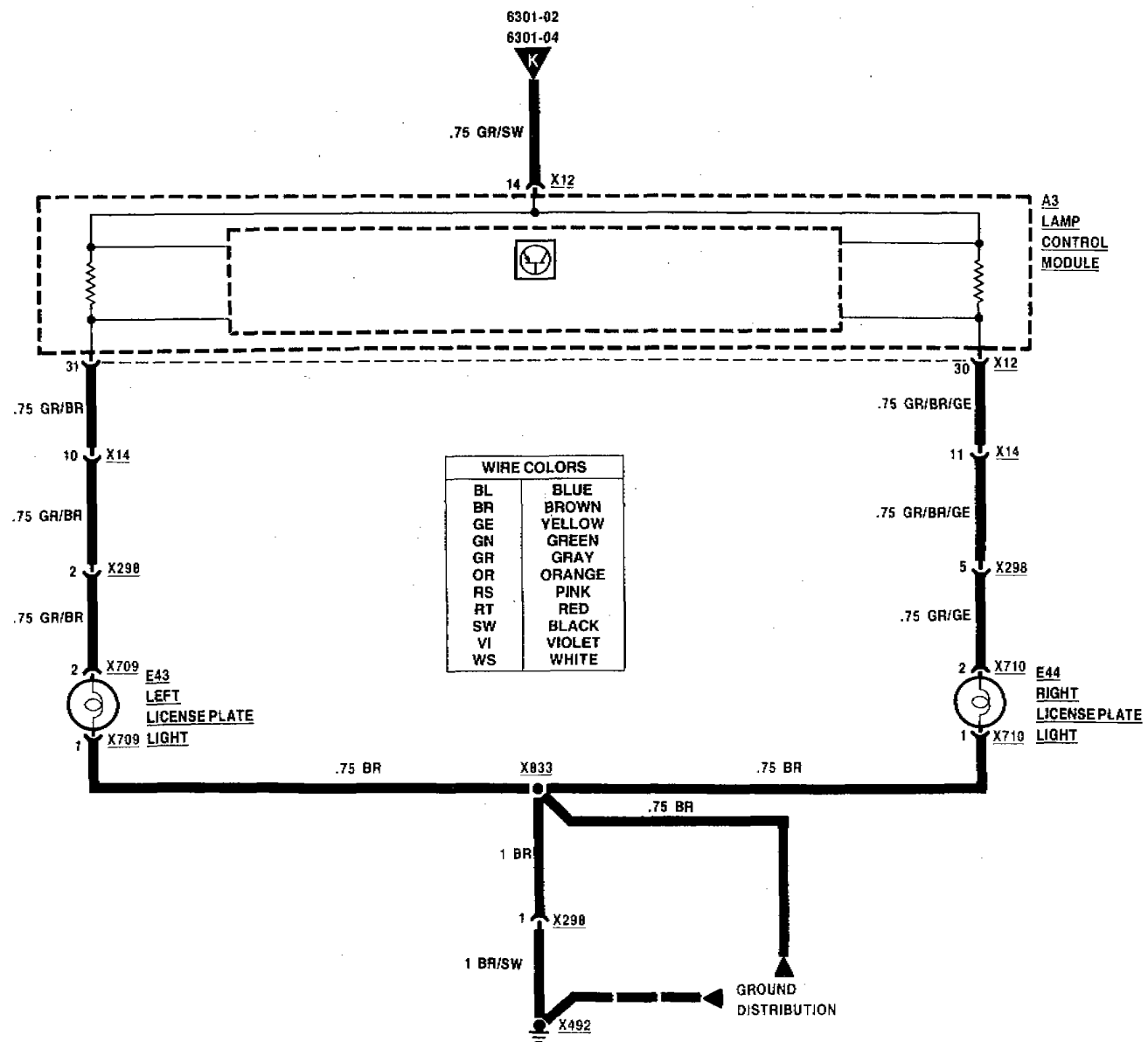


# LAMP MONITOR (LKM)

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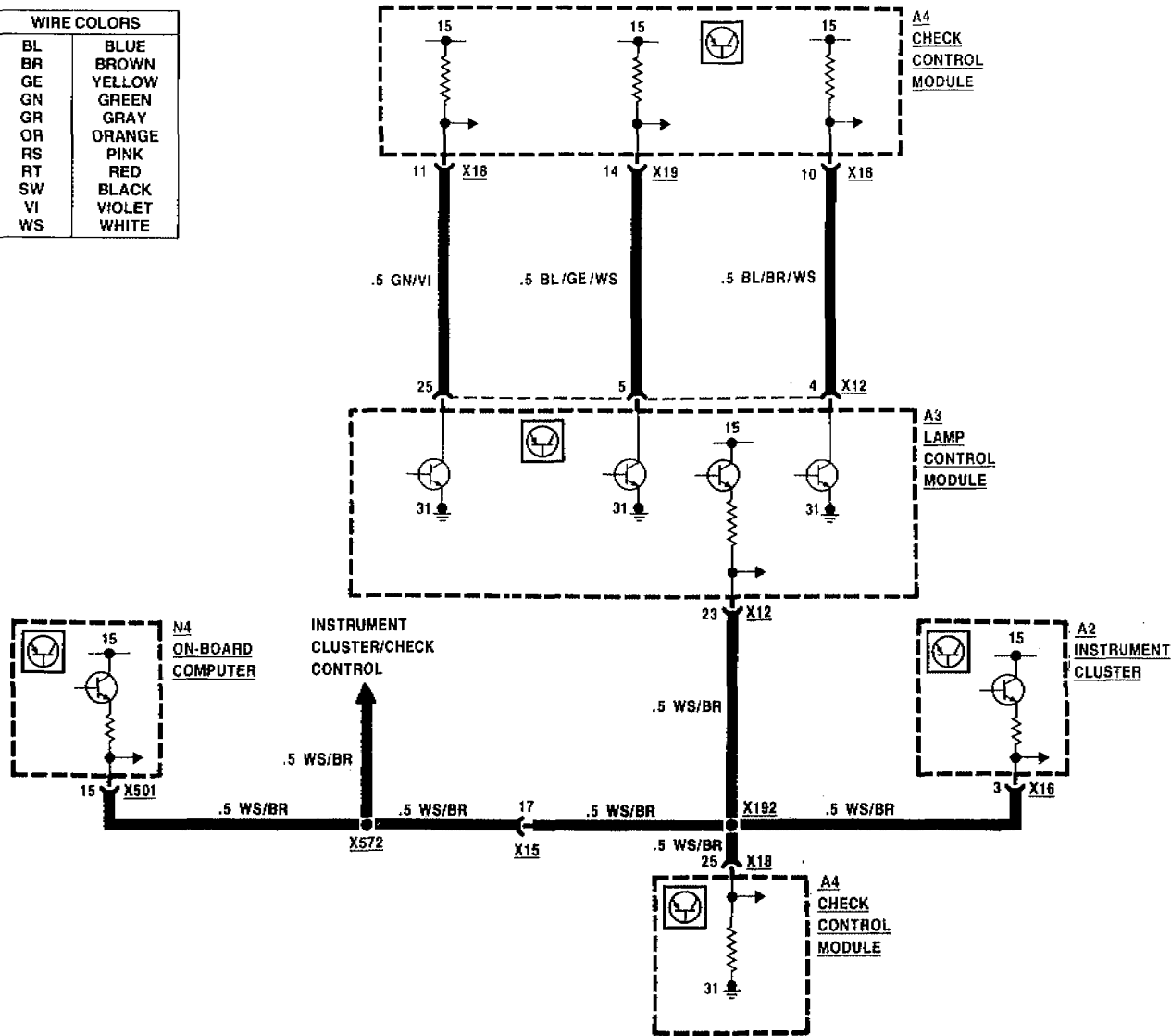


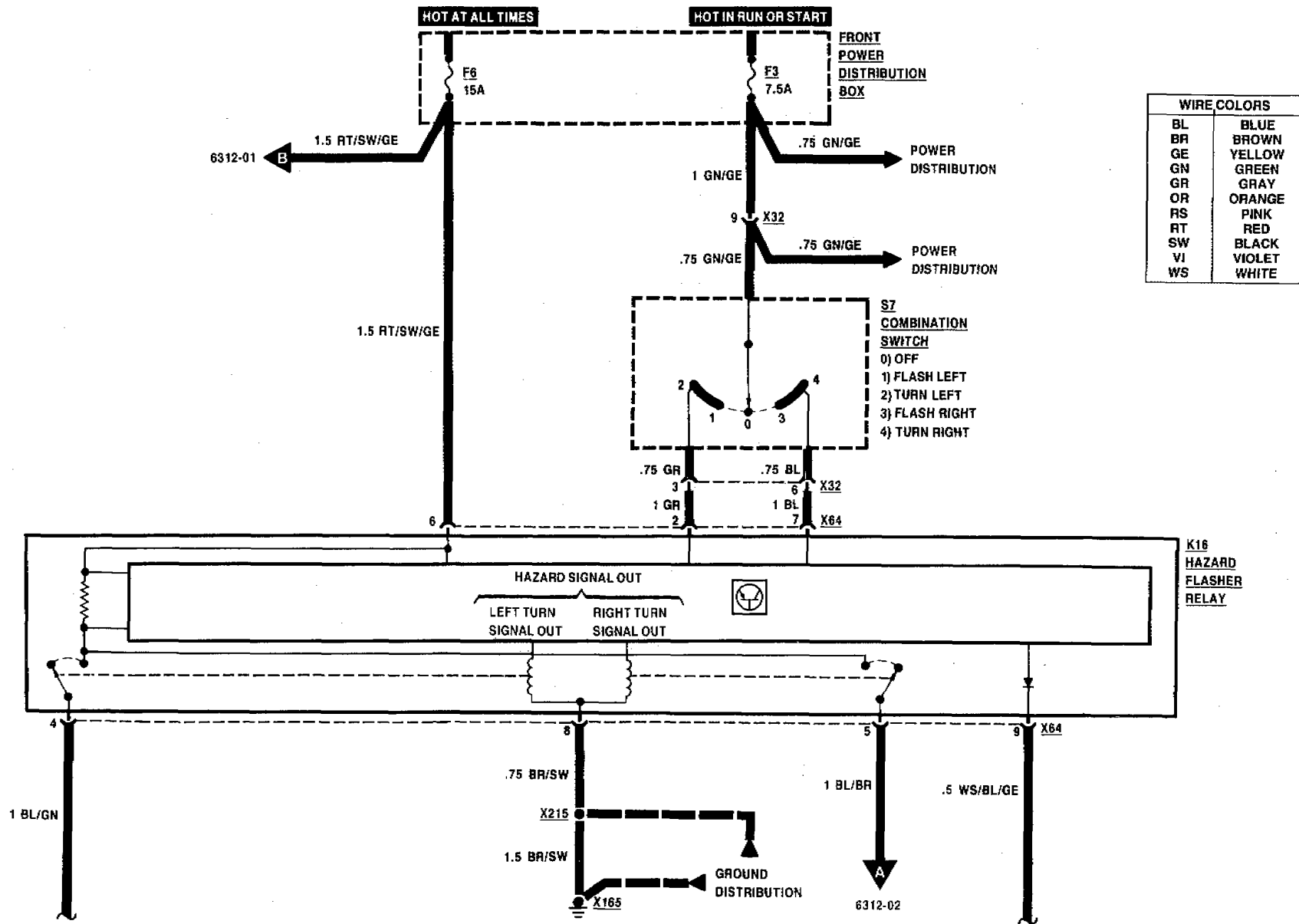


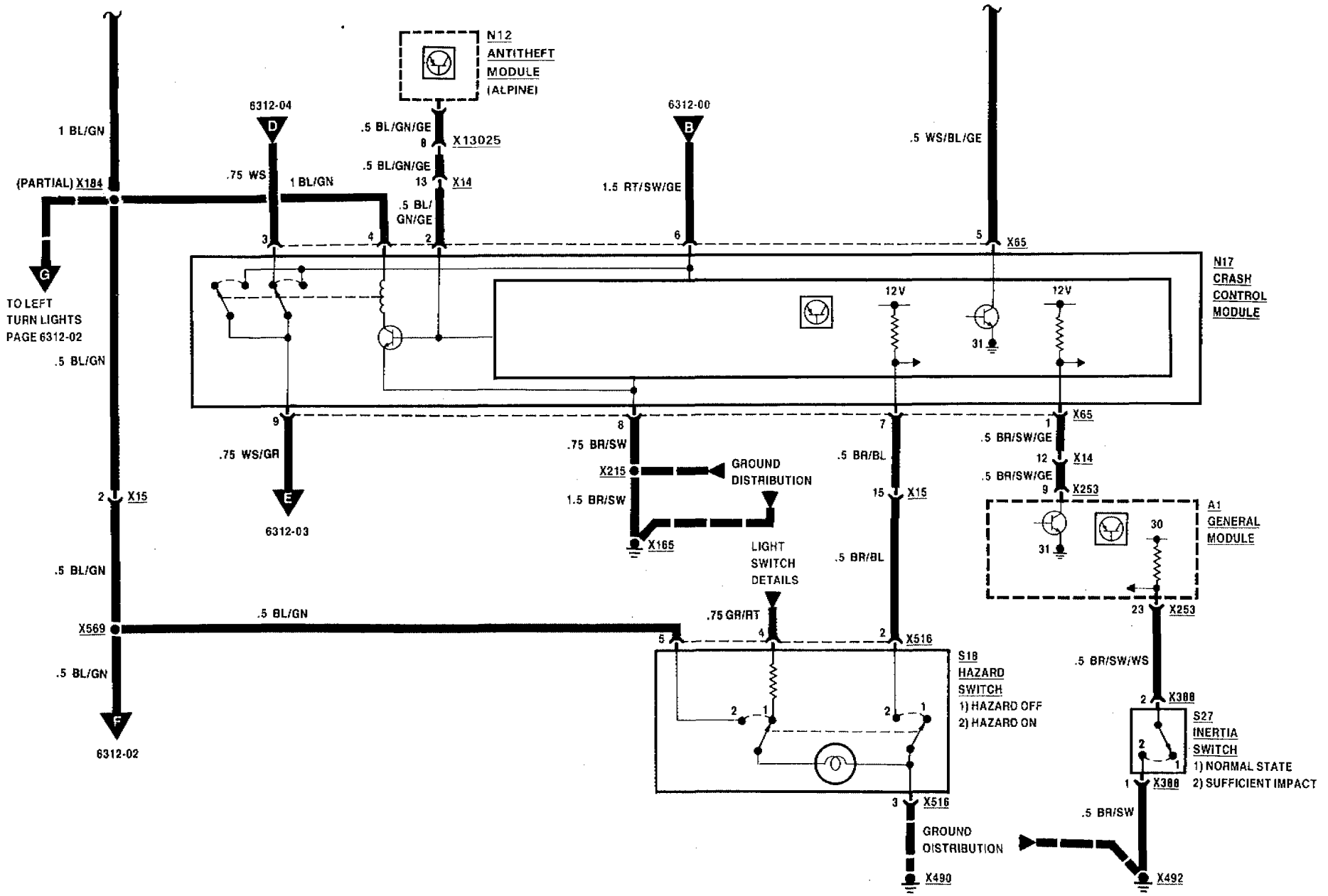
# LAMP MONITOR (LKM)

## DATA LINK

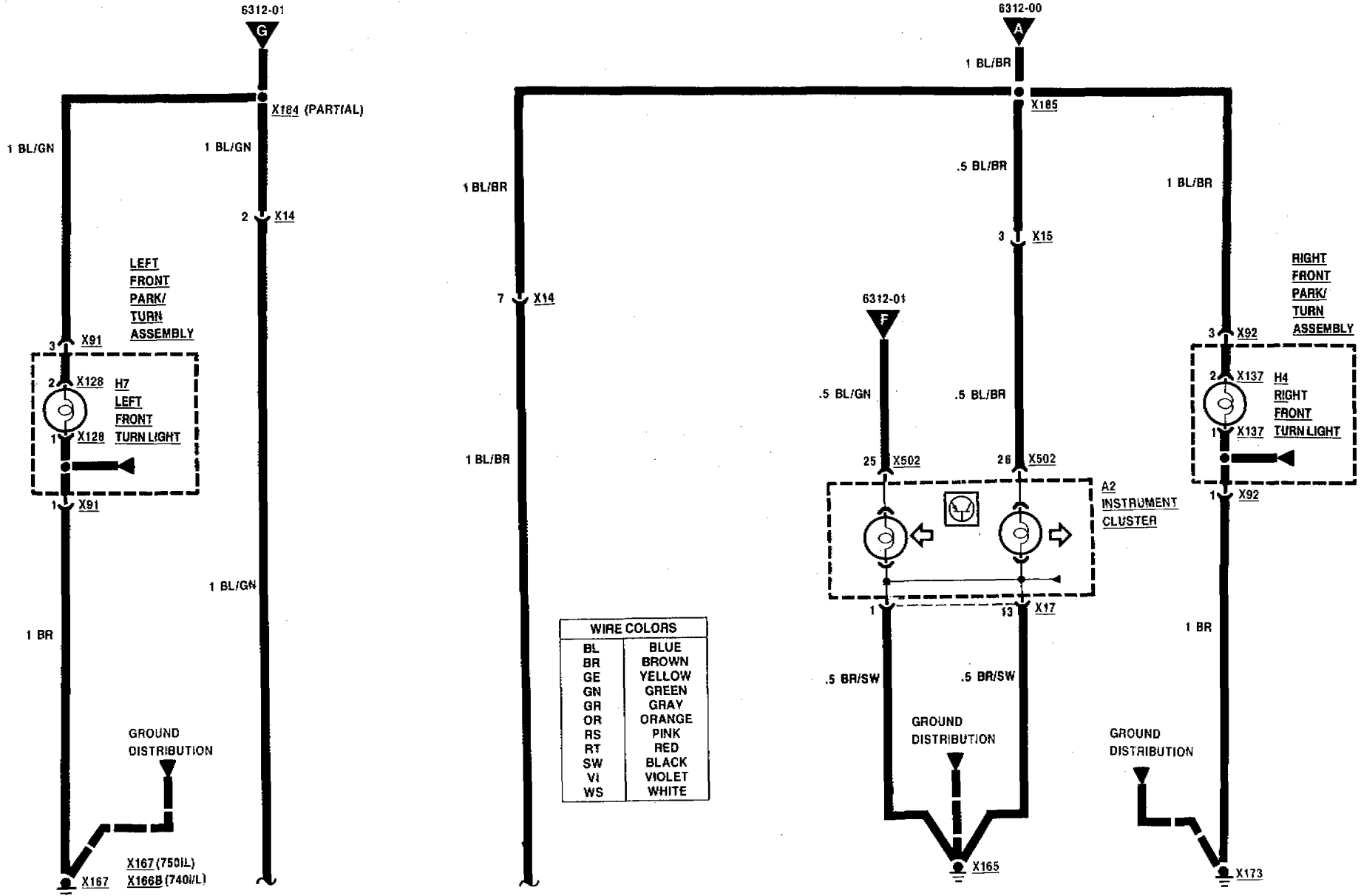
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



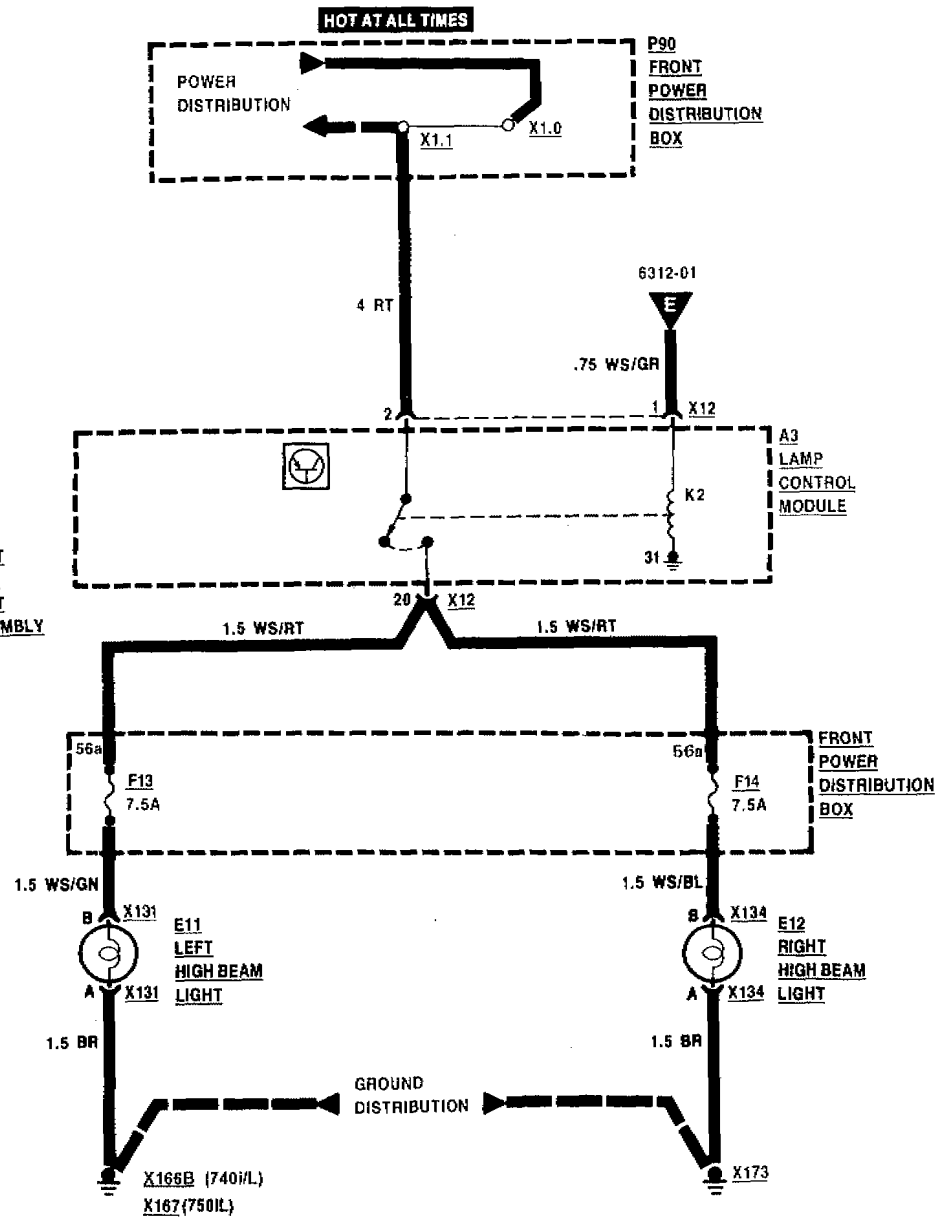
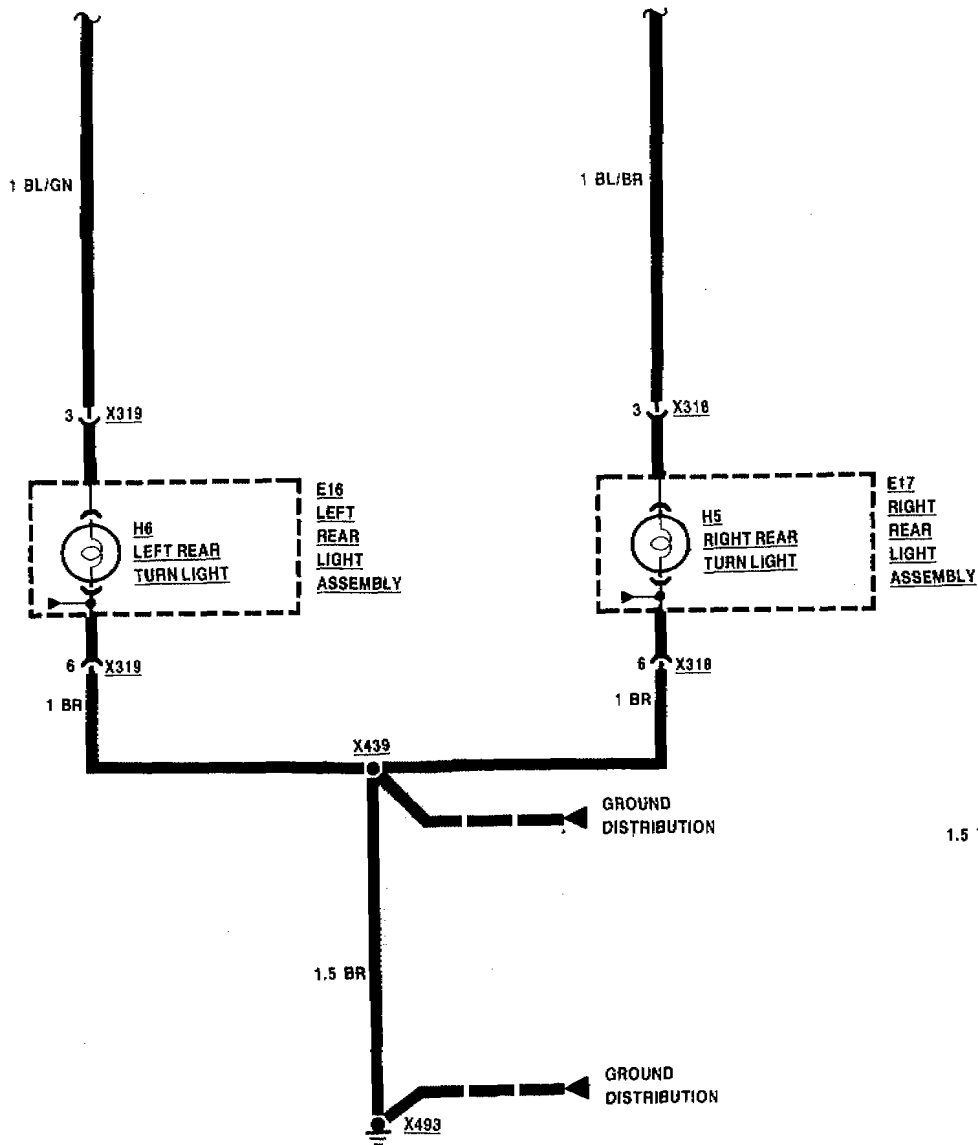




# TURN/HAZARD LIGHTS



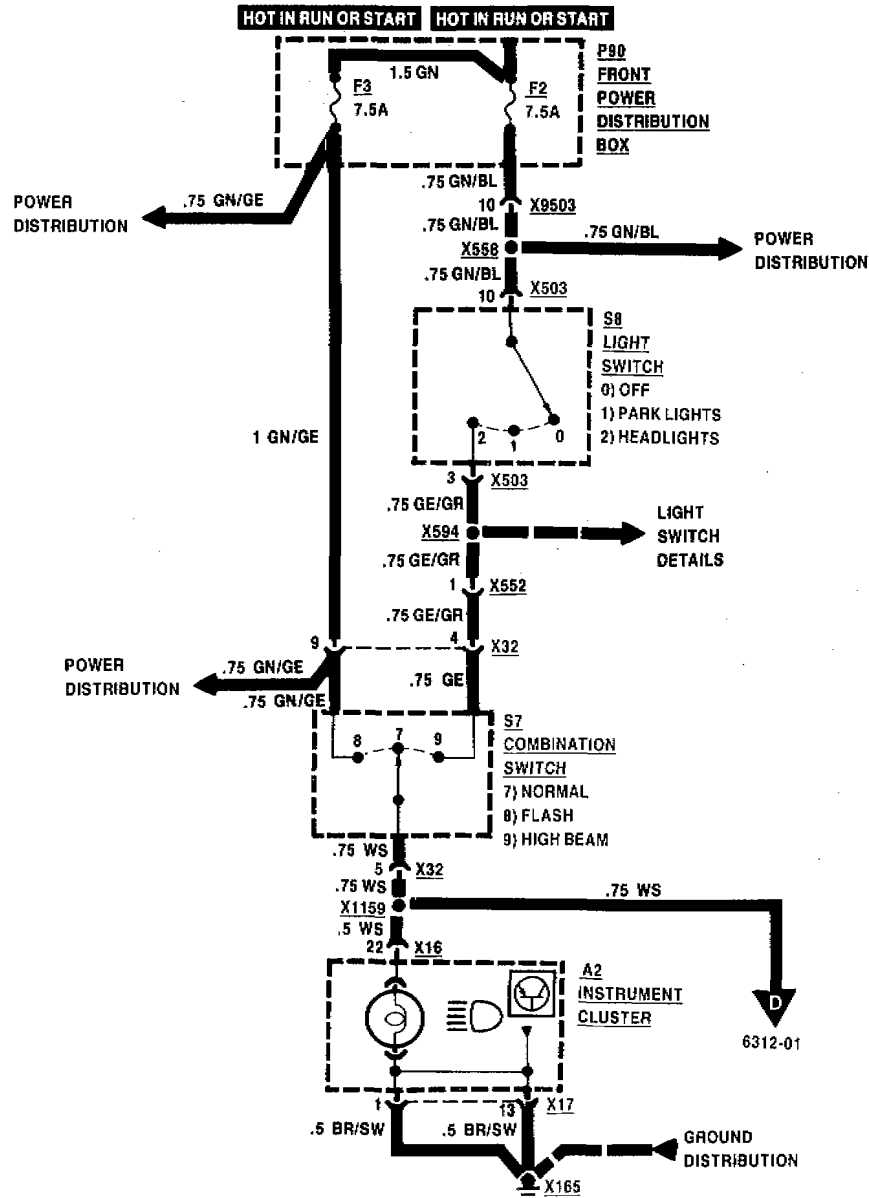




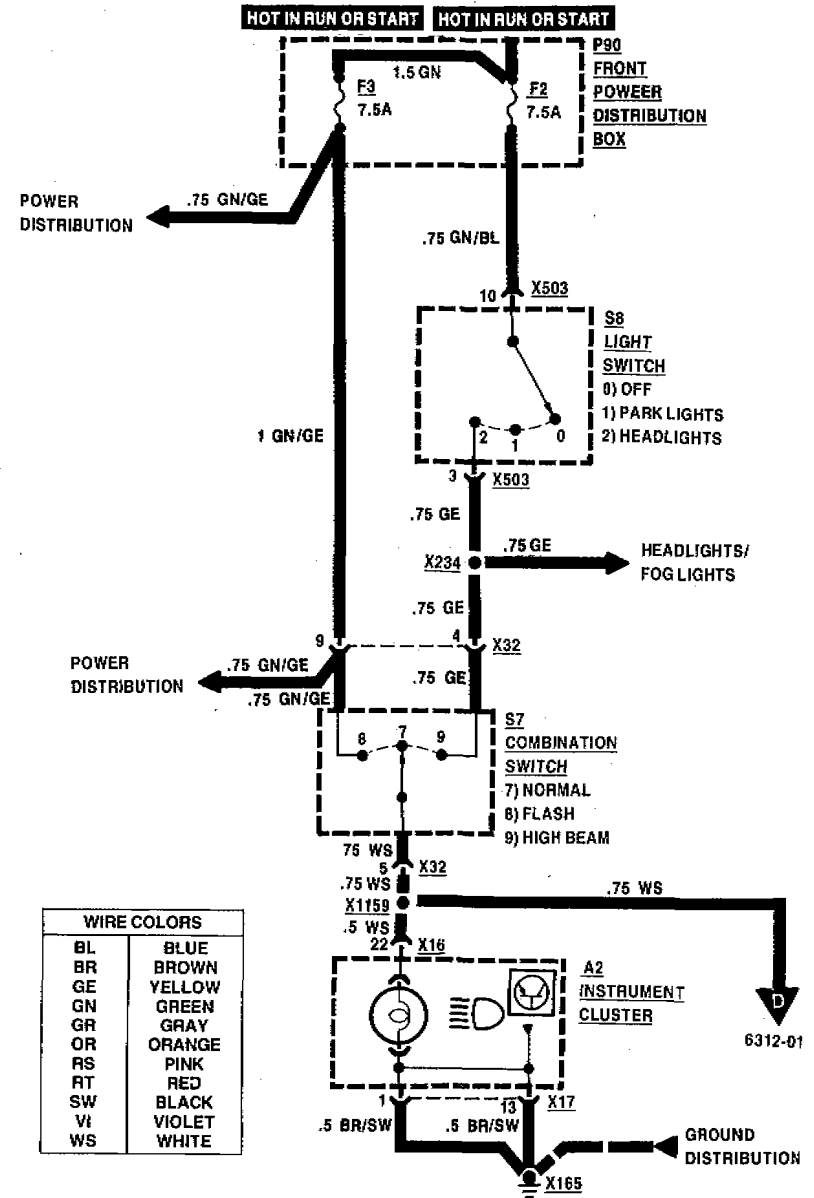


# TURN/HAZARD LIGHTS

## CANADA



## U.S.A.



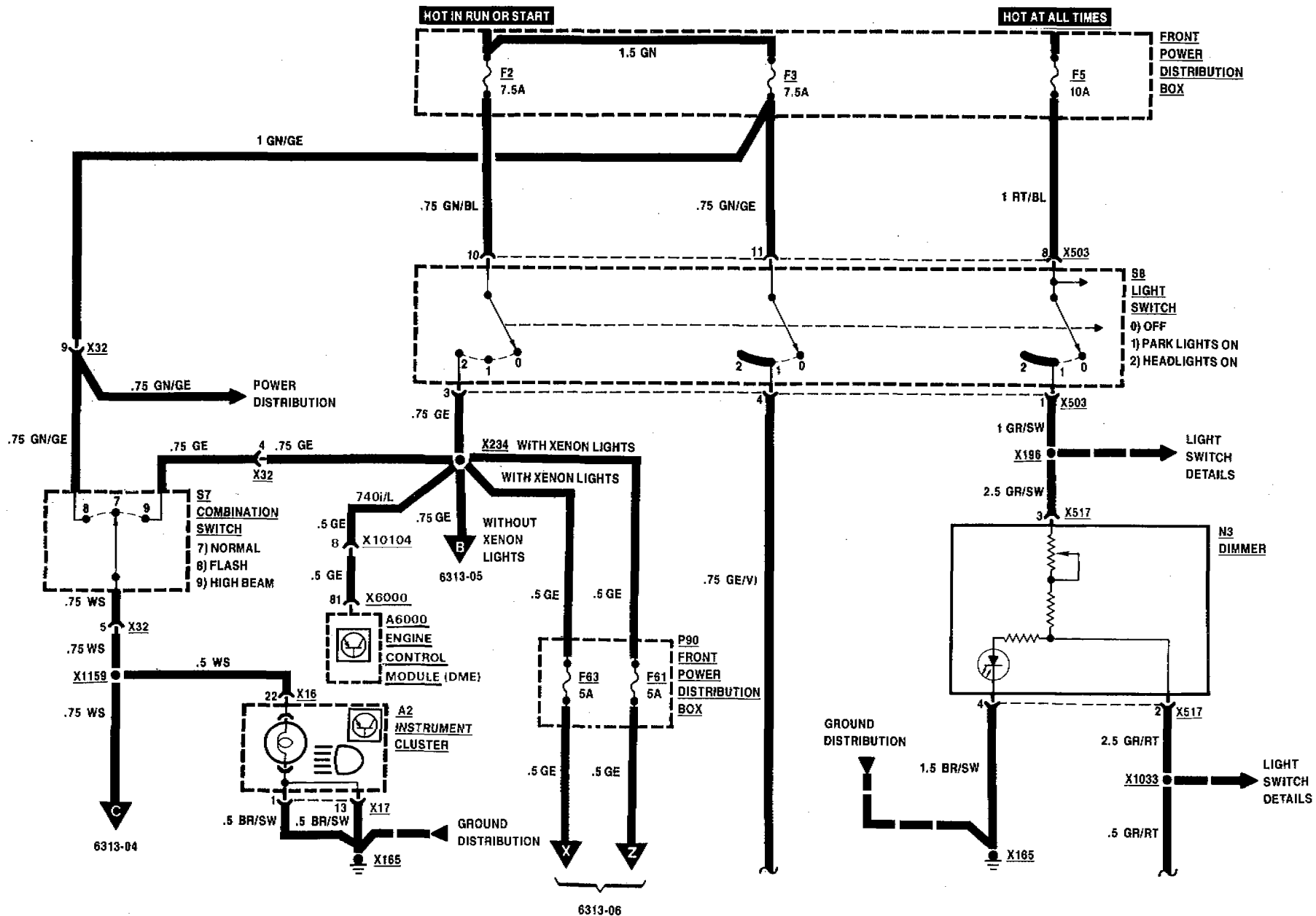
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

BMW  
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# HEADLIGHTS/FOG LIGHTS

U.S.A.

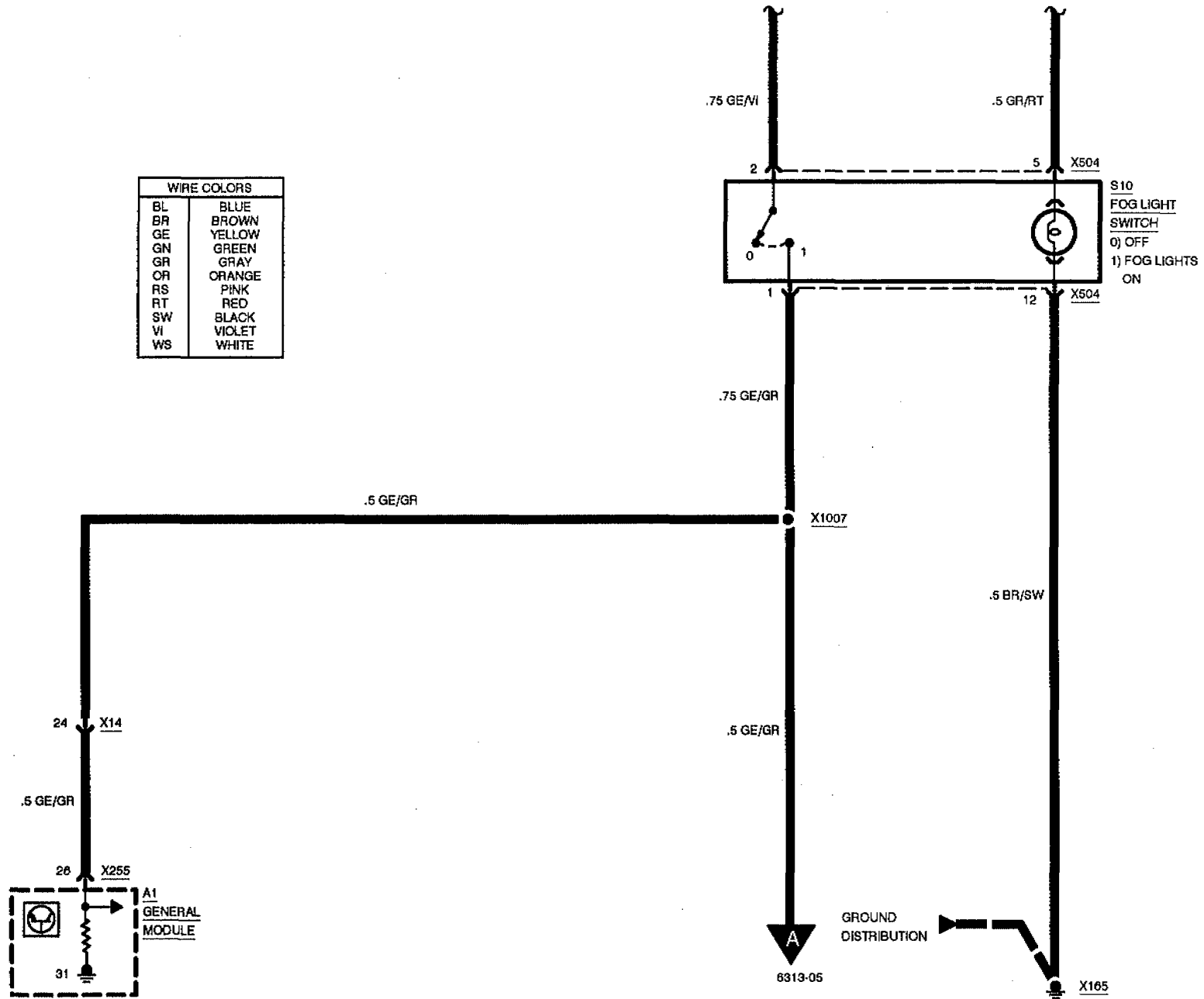


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WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

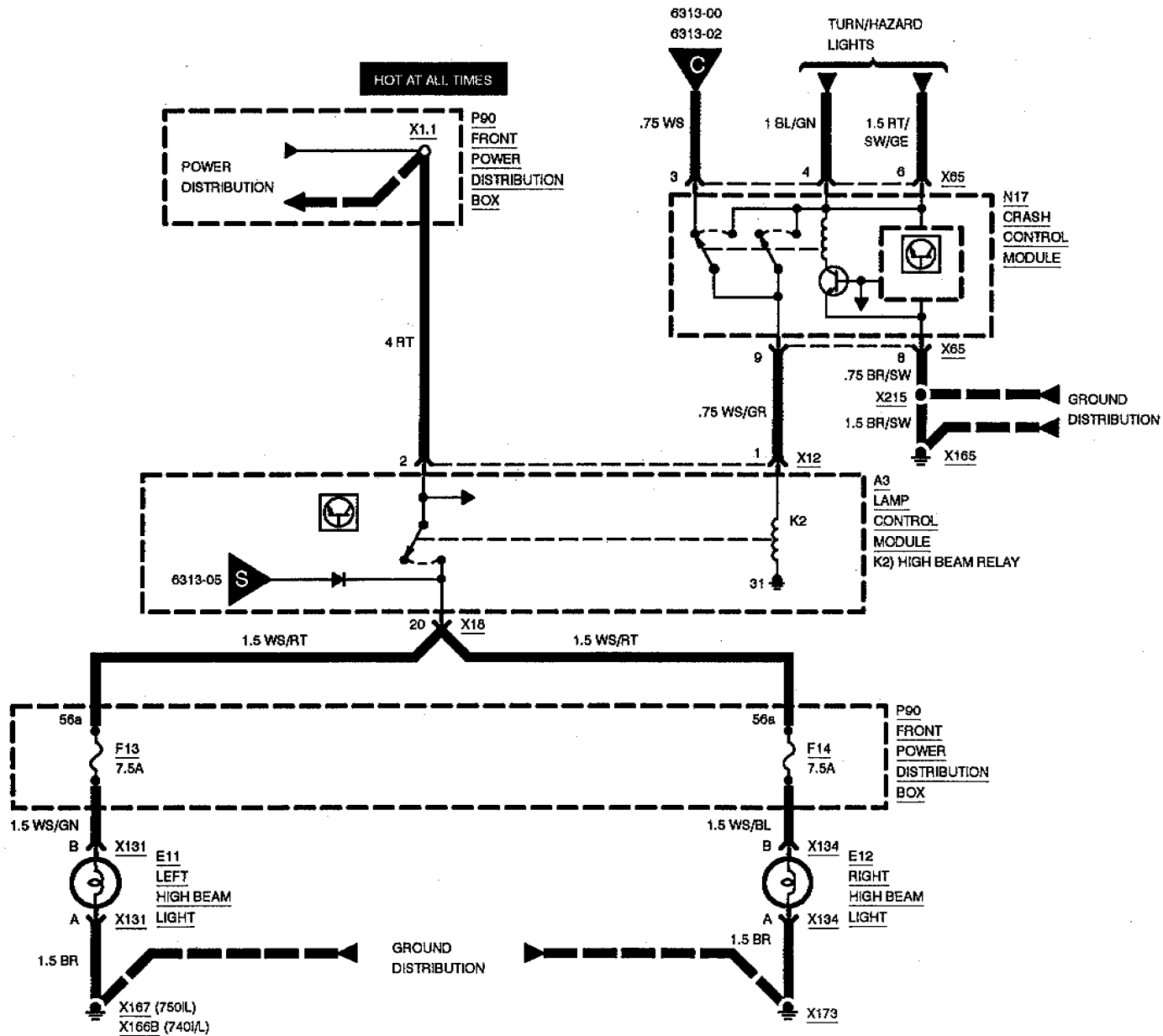








# HEADLIGHTS/FOG LIGHTS

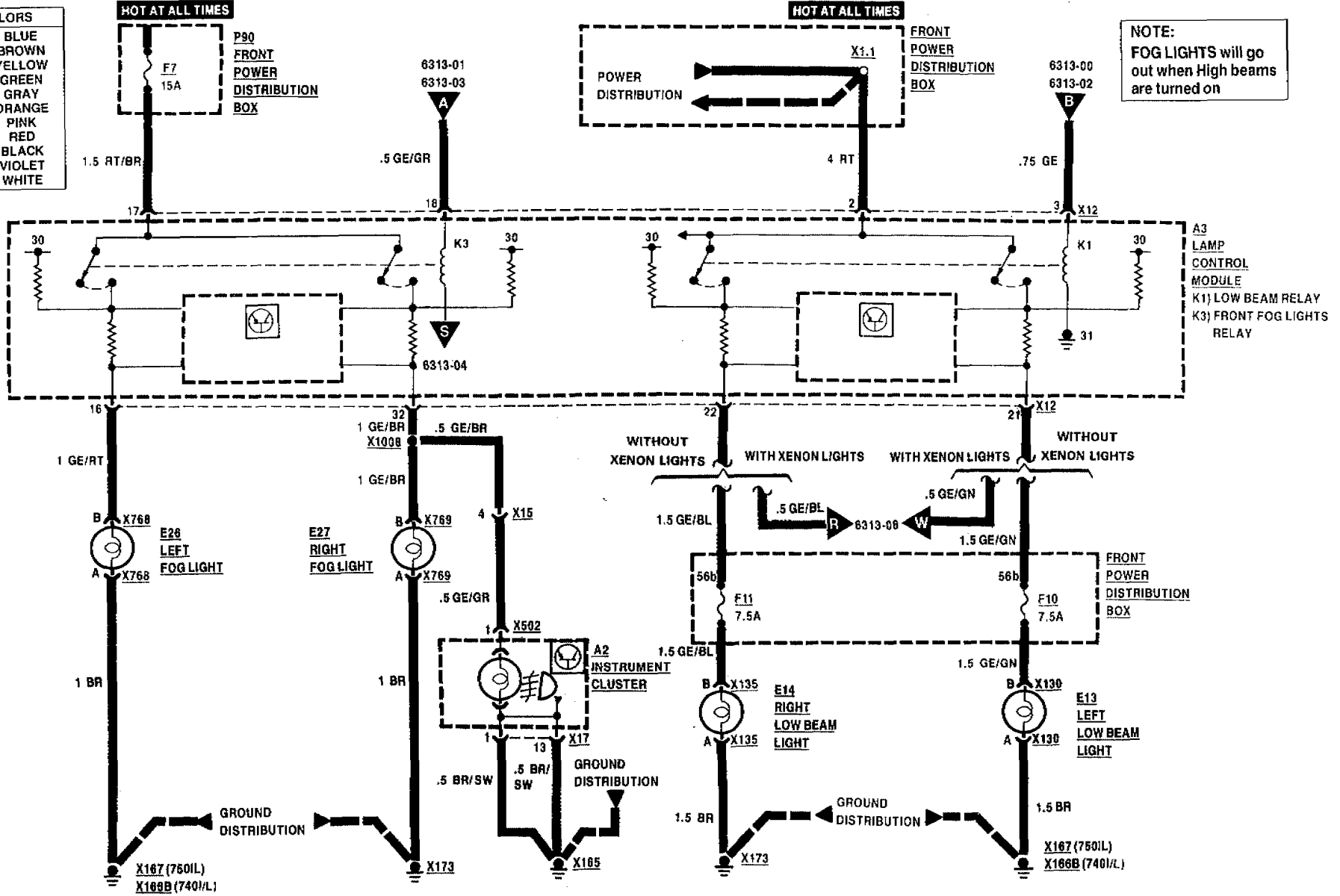






# HEADLIGHTS/FOG LIGHTS

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

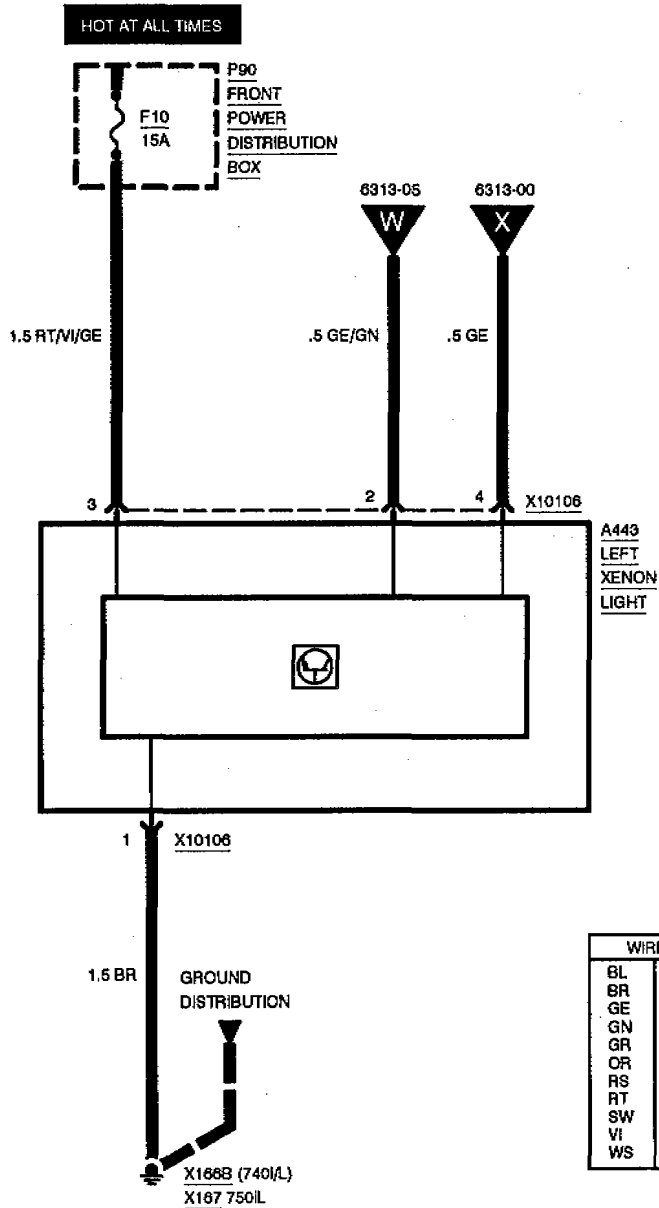


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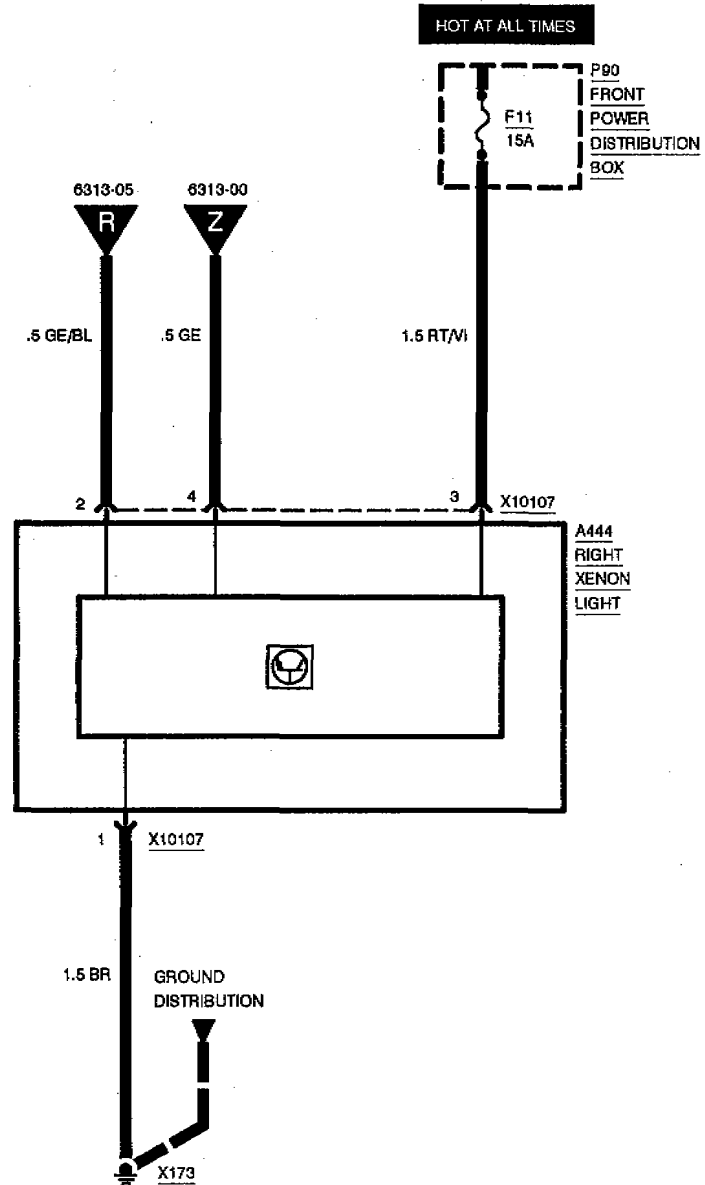


# HEADLIGHTS/FOGLIGHTS

# WITH XENON LIGHTS



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



BMW  
7



# PARK/TAIL/MARKER/UNDERHOOD LIGHTS

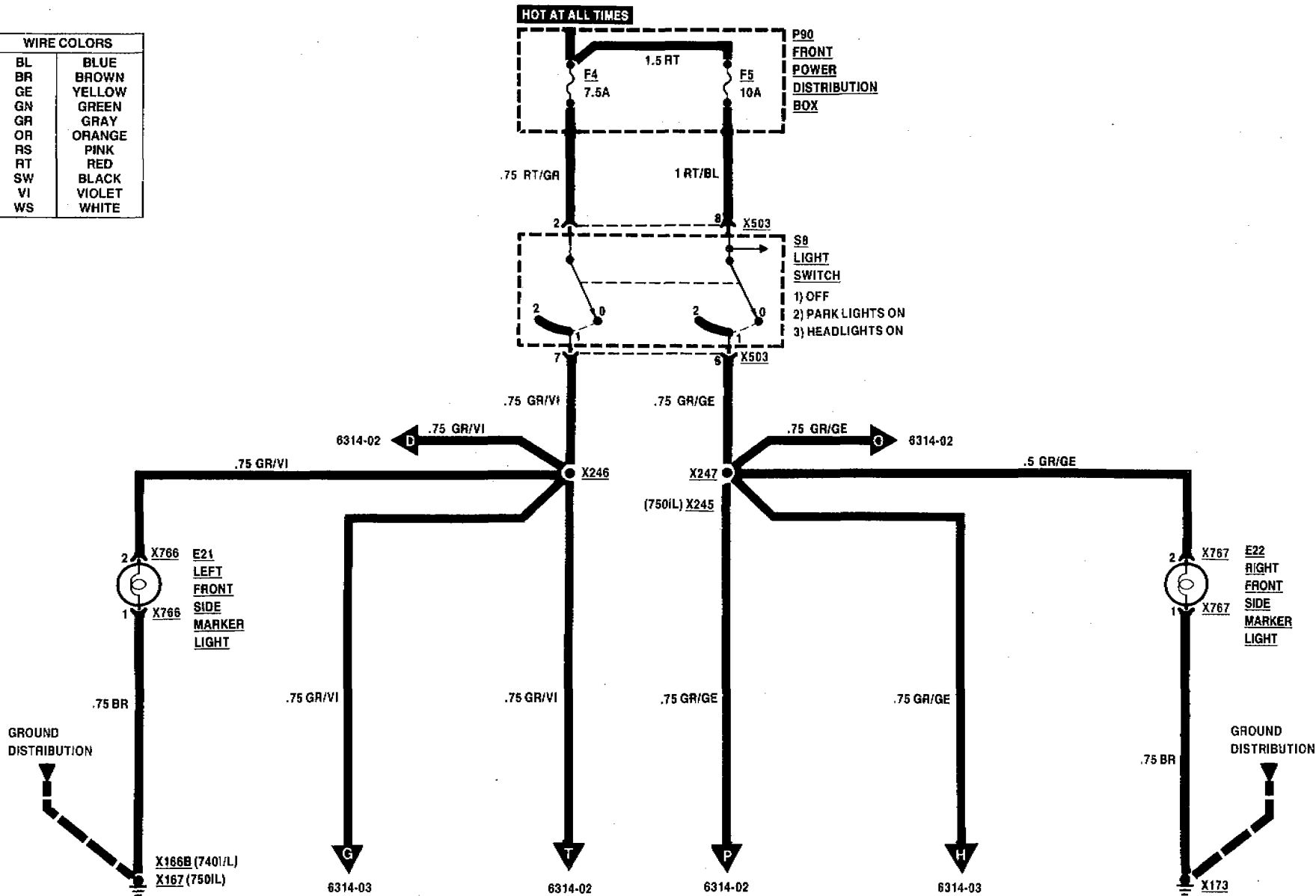
U.S.A

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

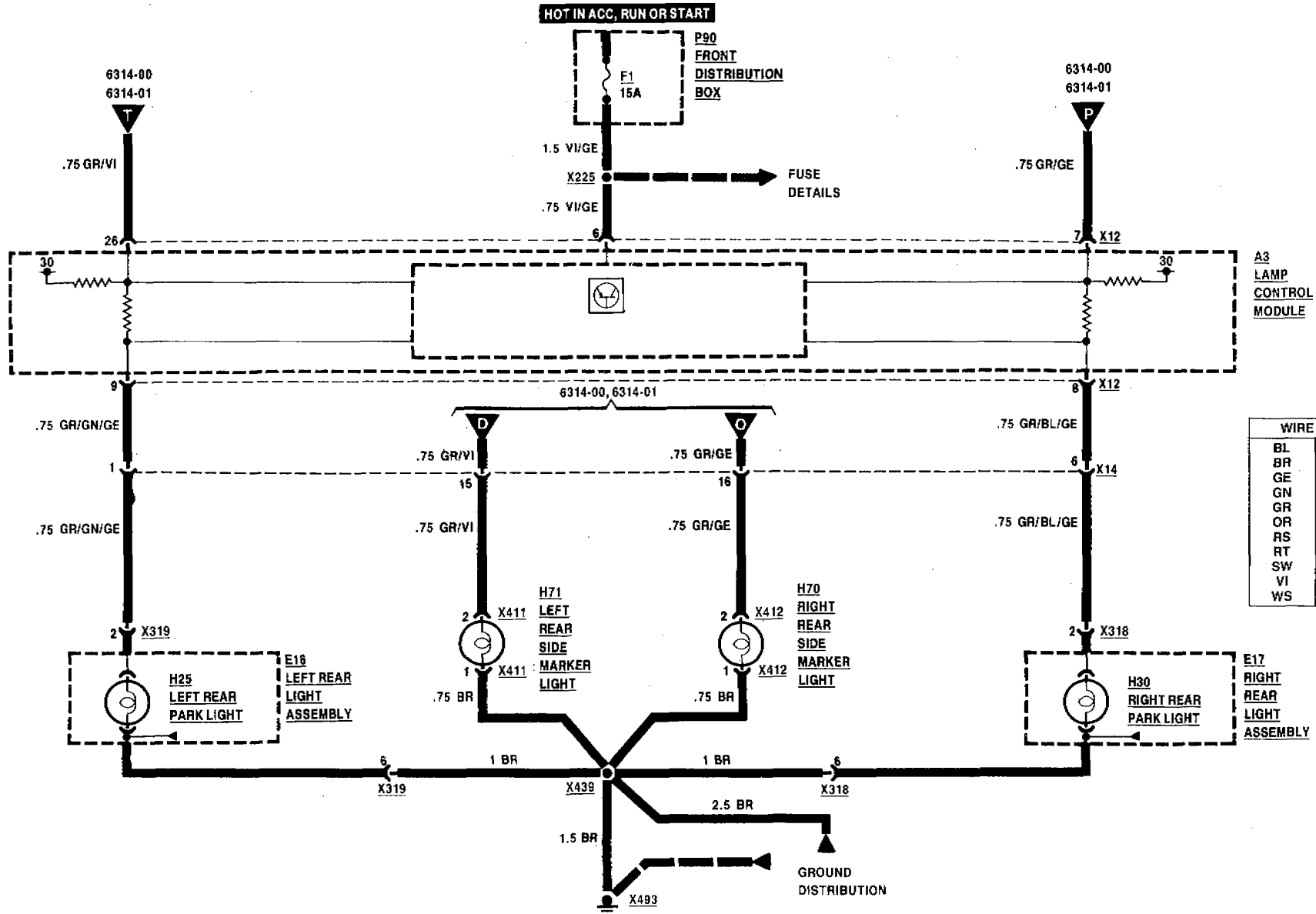






# PARK/TAIL/MARKER/UNDERHOOD LIGHTS

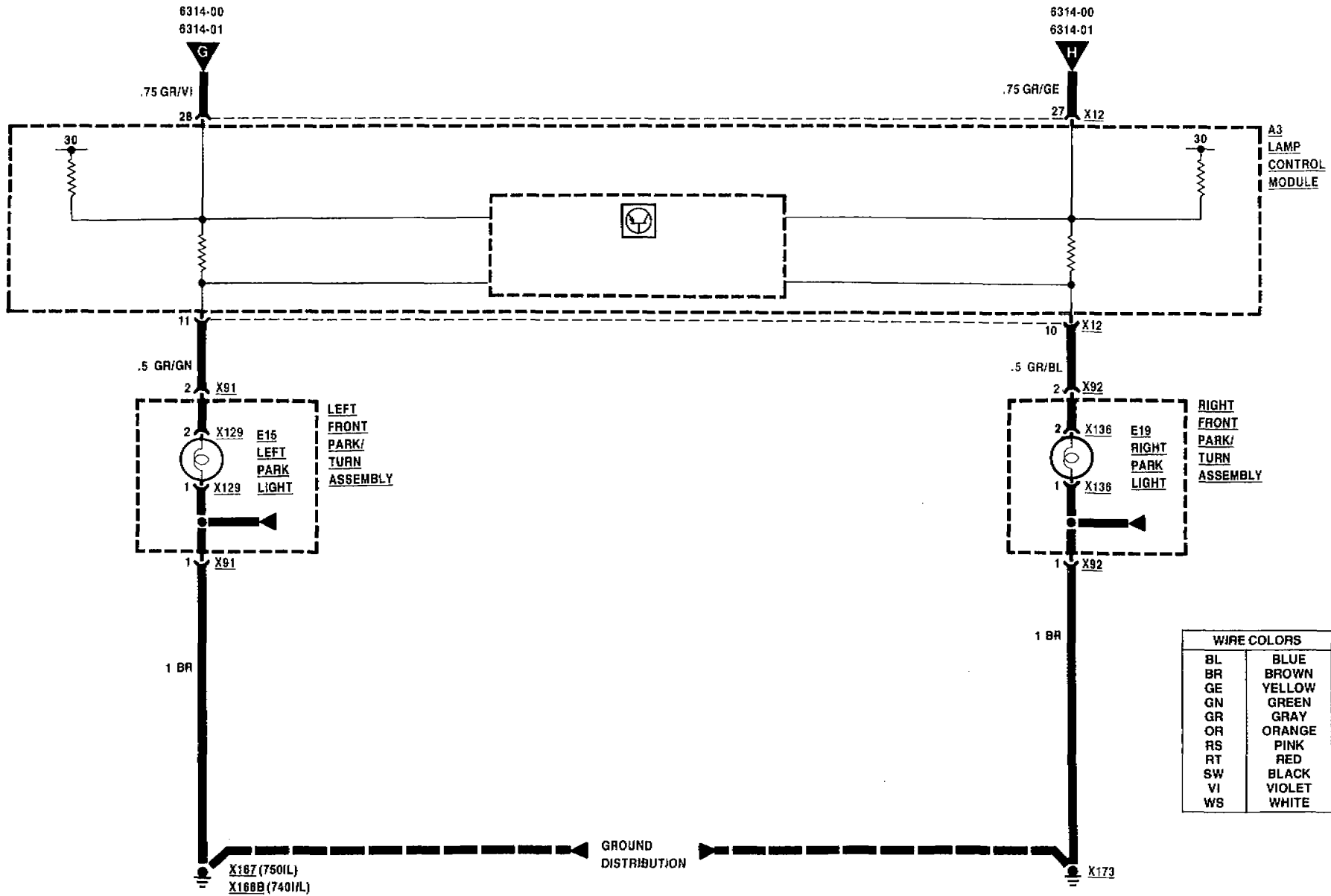
## REAR PARK LIGHTS





# PARK/TAIL/MARKER/UNDERHOOD LIGHTS

## PARK/FRONT MARKER LIGHTS



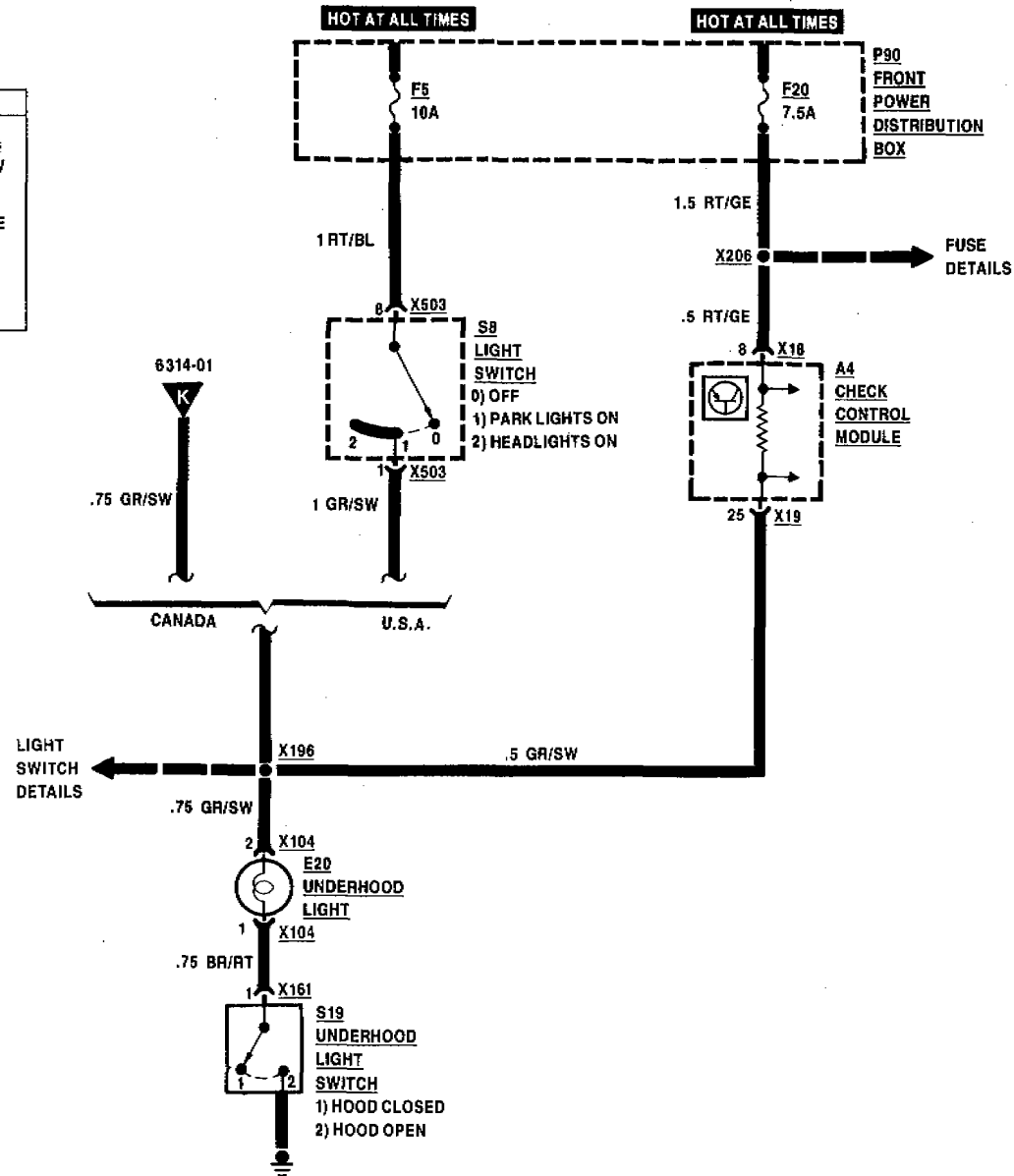
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# PARK/TAIL/MARKER/UNDERHOOD LIGHTS

## UNDERHOOD LIGHT

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



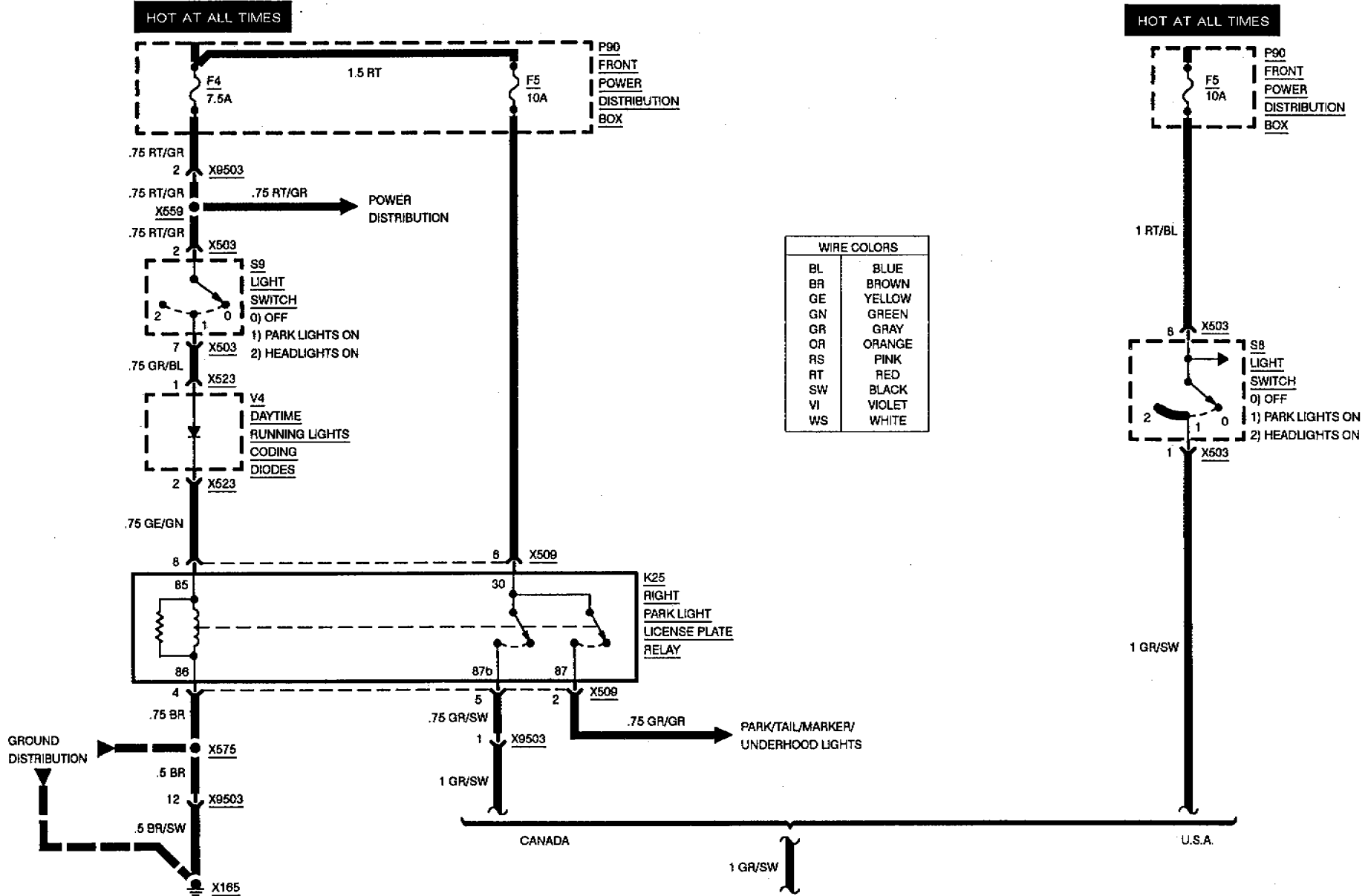




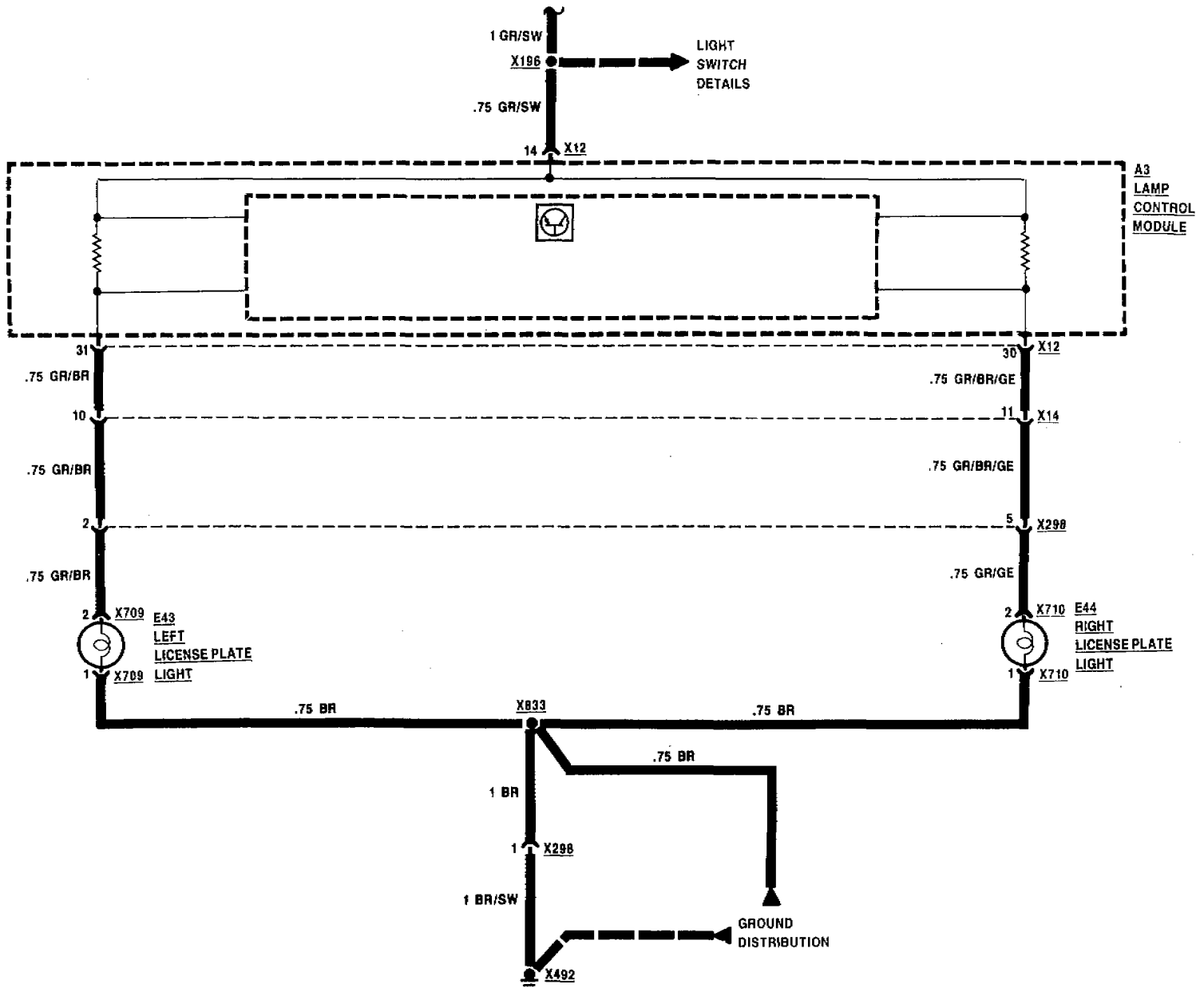


# LICENSE/TRUNK LIGHTS

## LICENSE LIGHTS



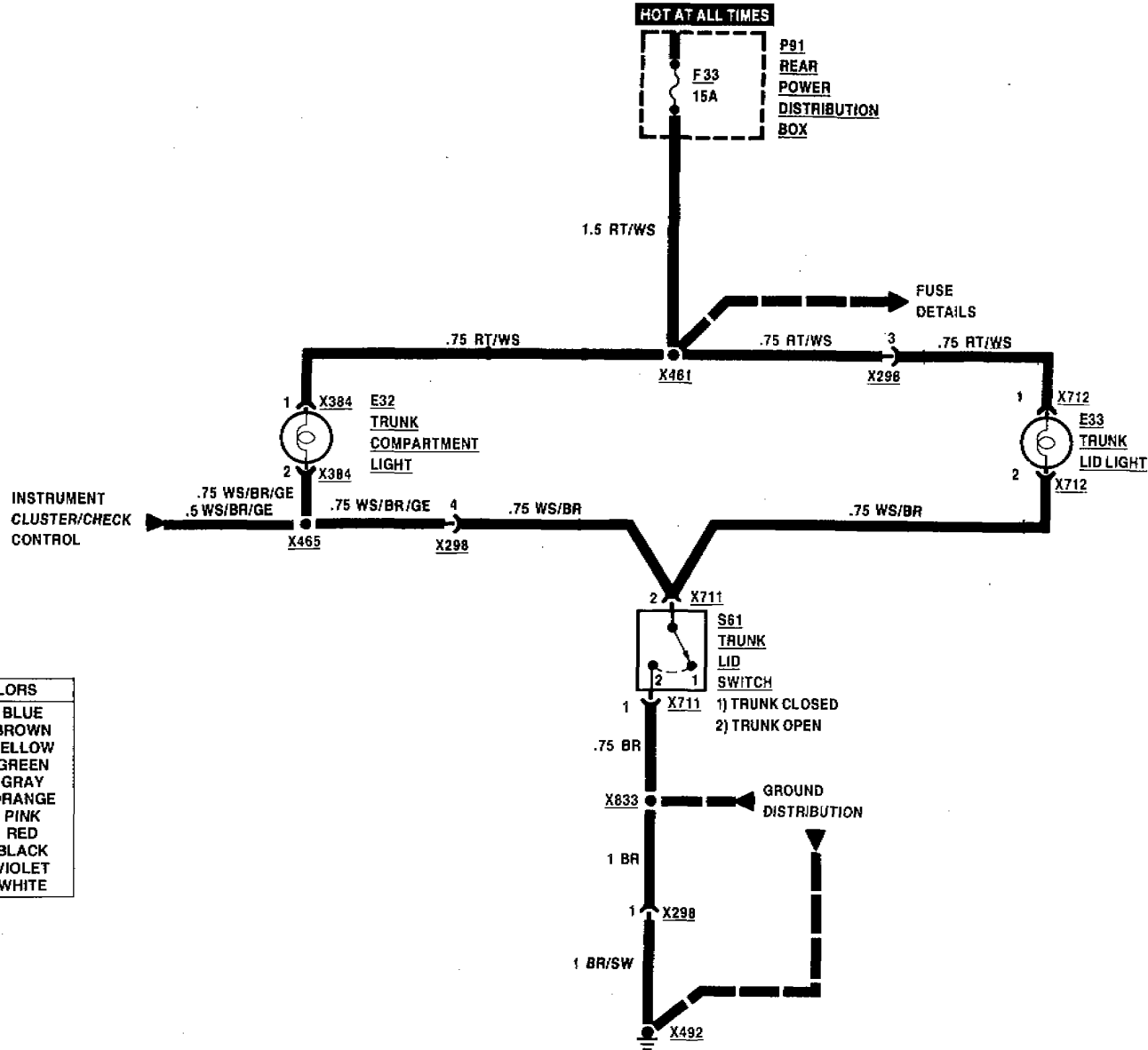
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# LICENSE/TRUNK LIGHTS

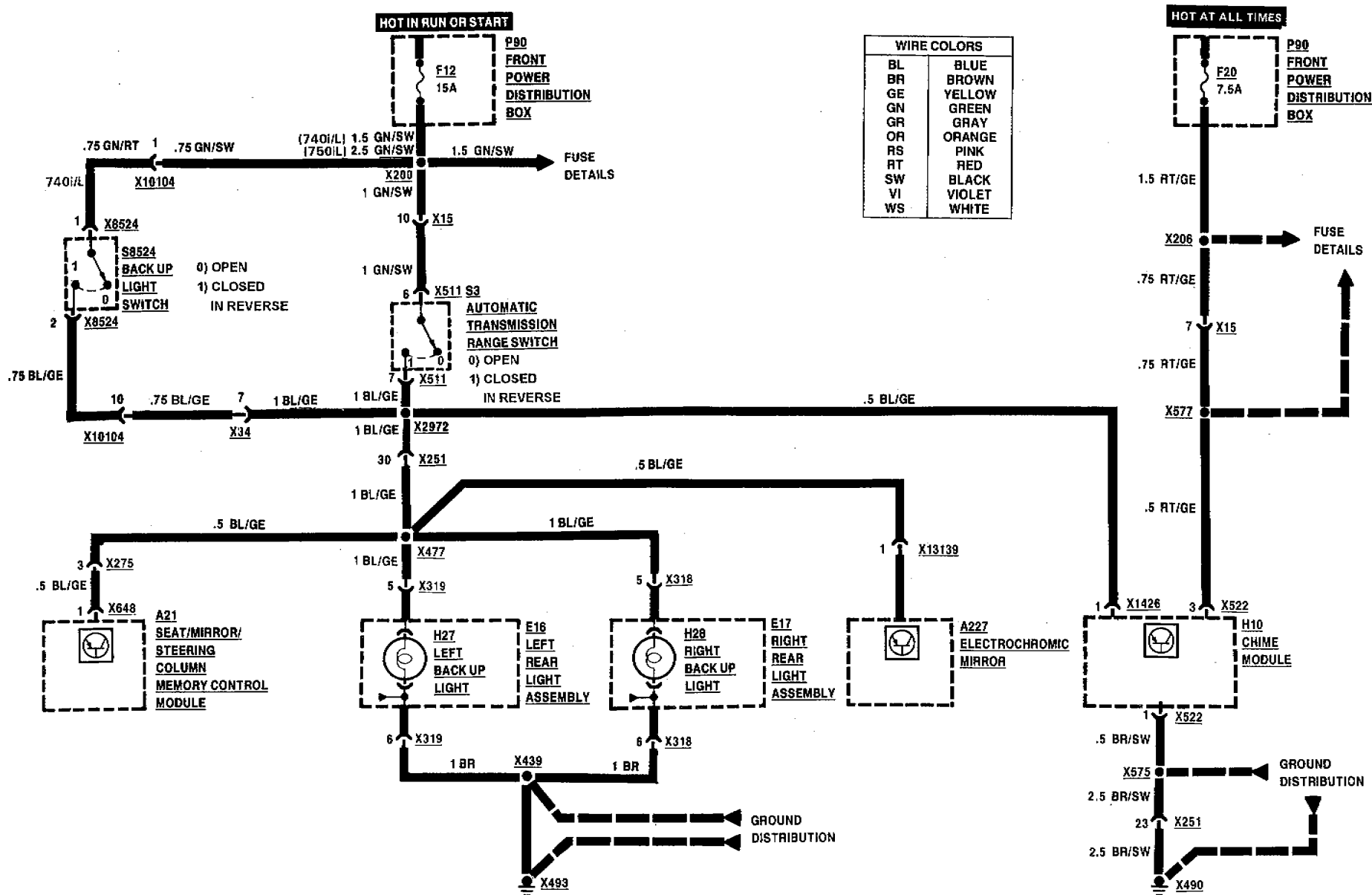
## TRUNK LIGHTS



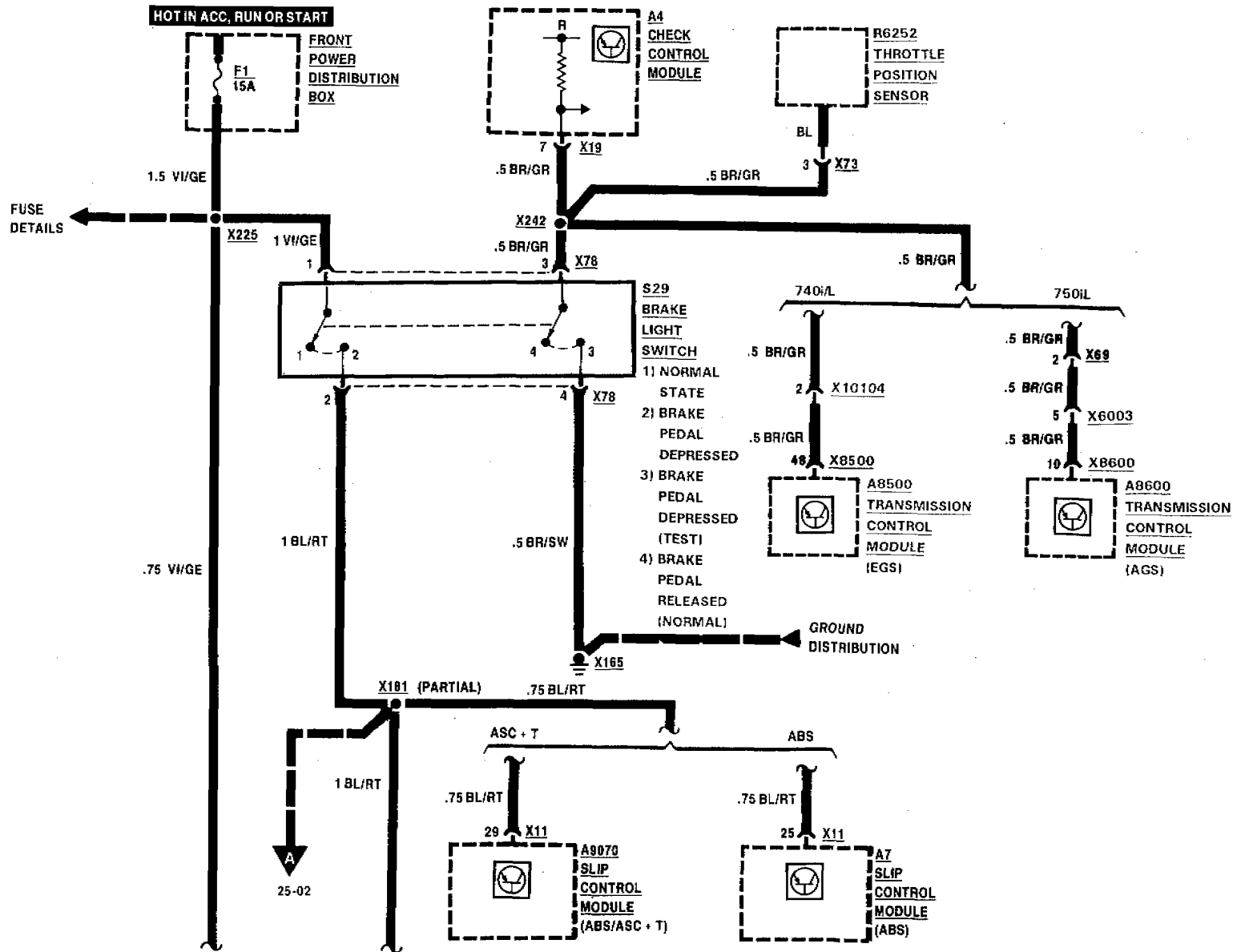
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



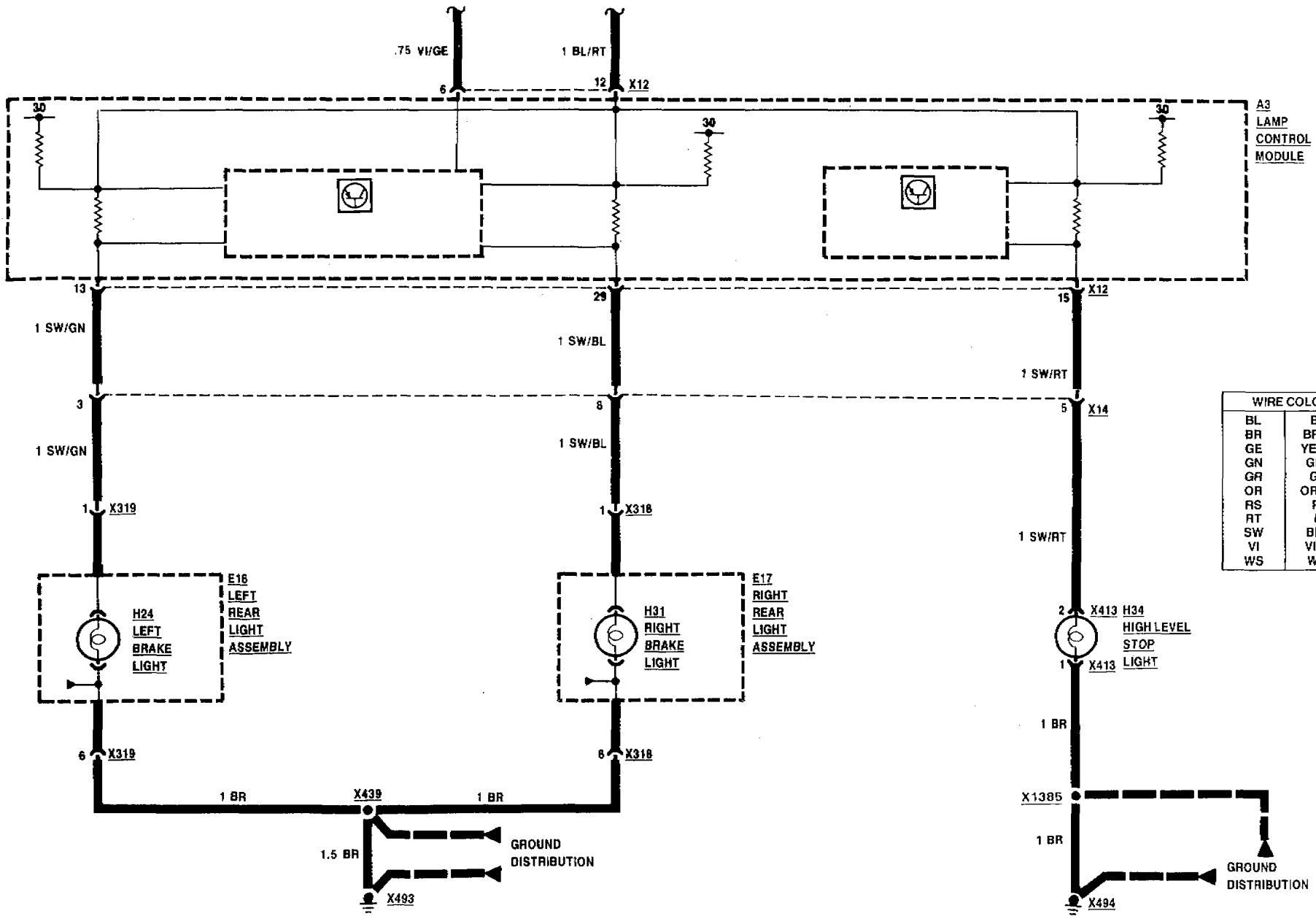
# BACK UP LIGHTS







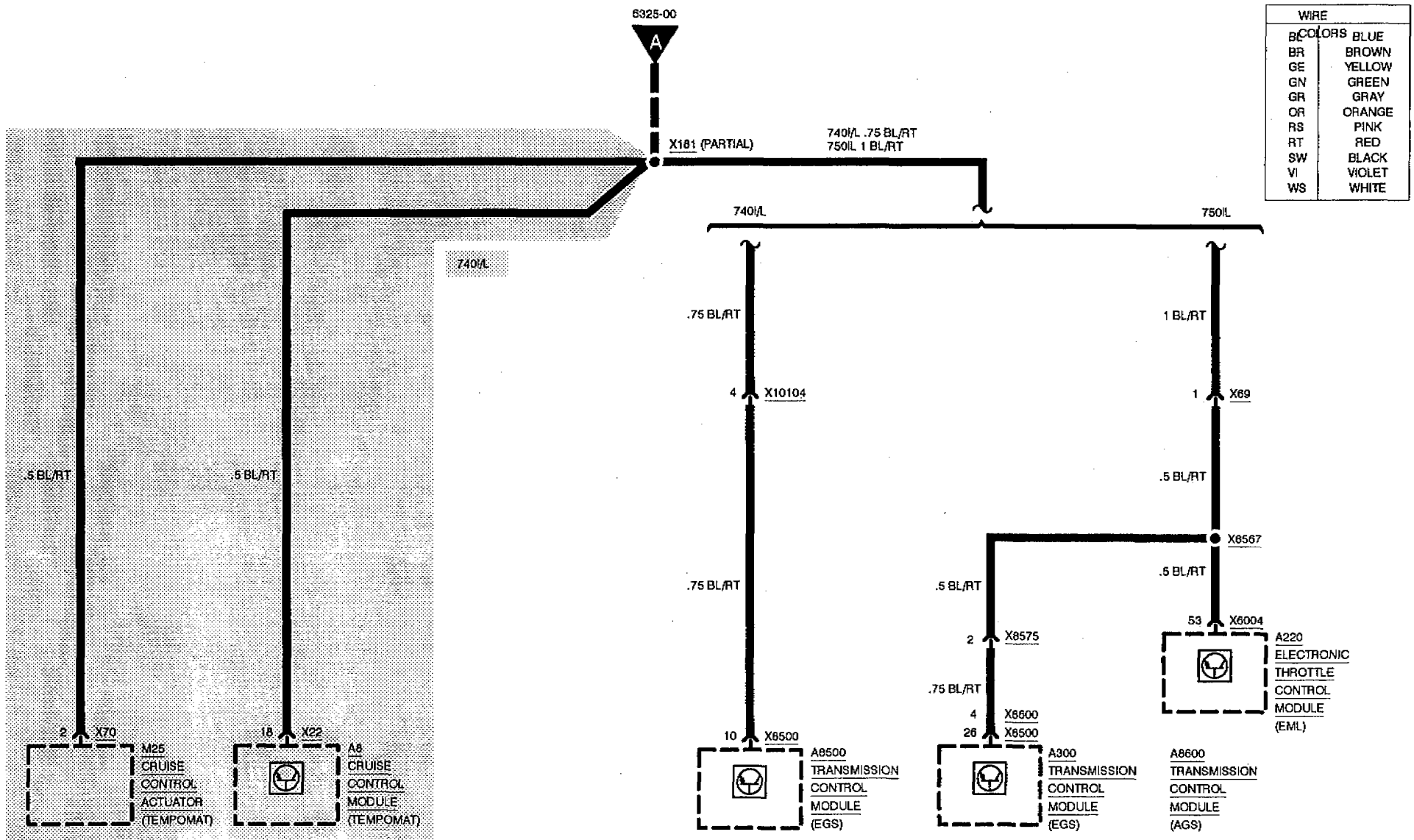




WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



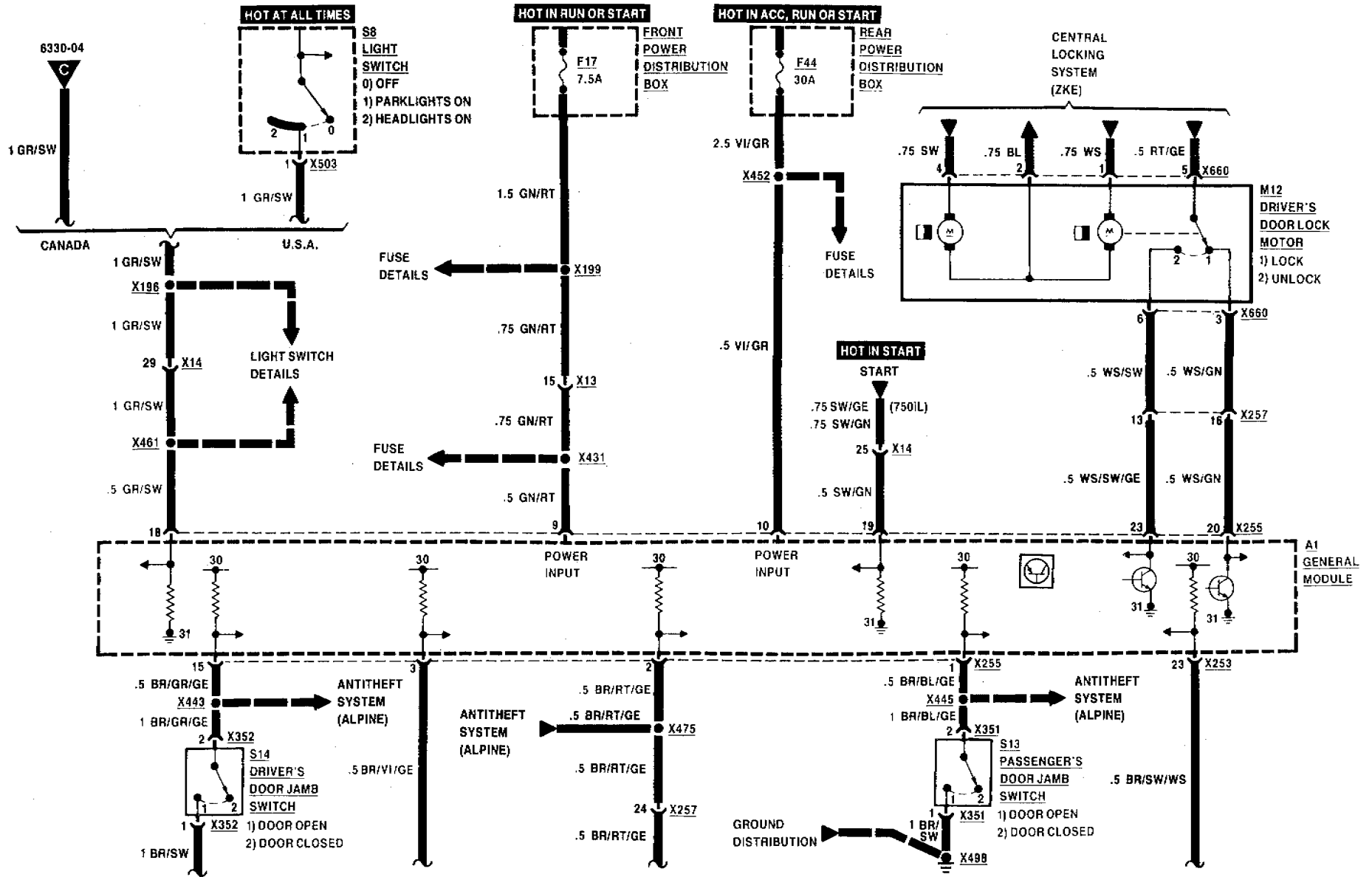
# 7 BRAKE LIGHTS

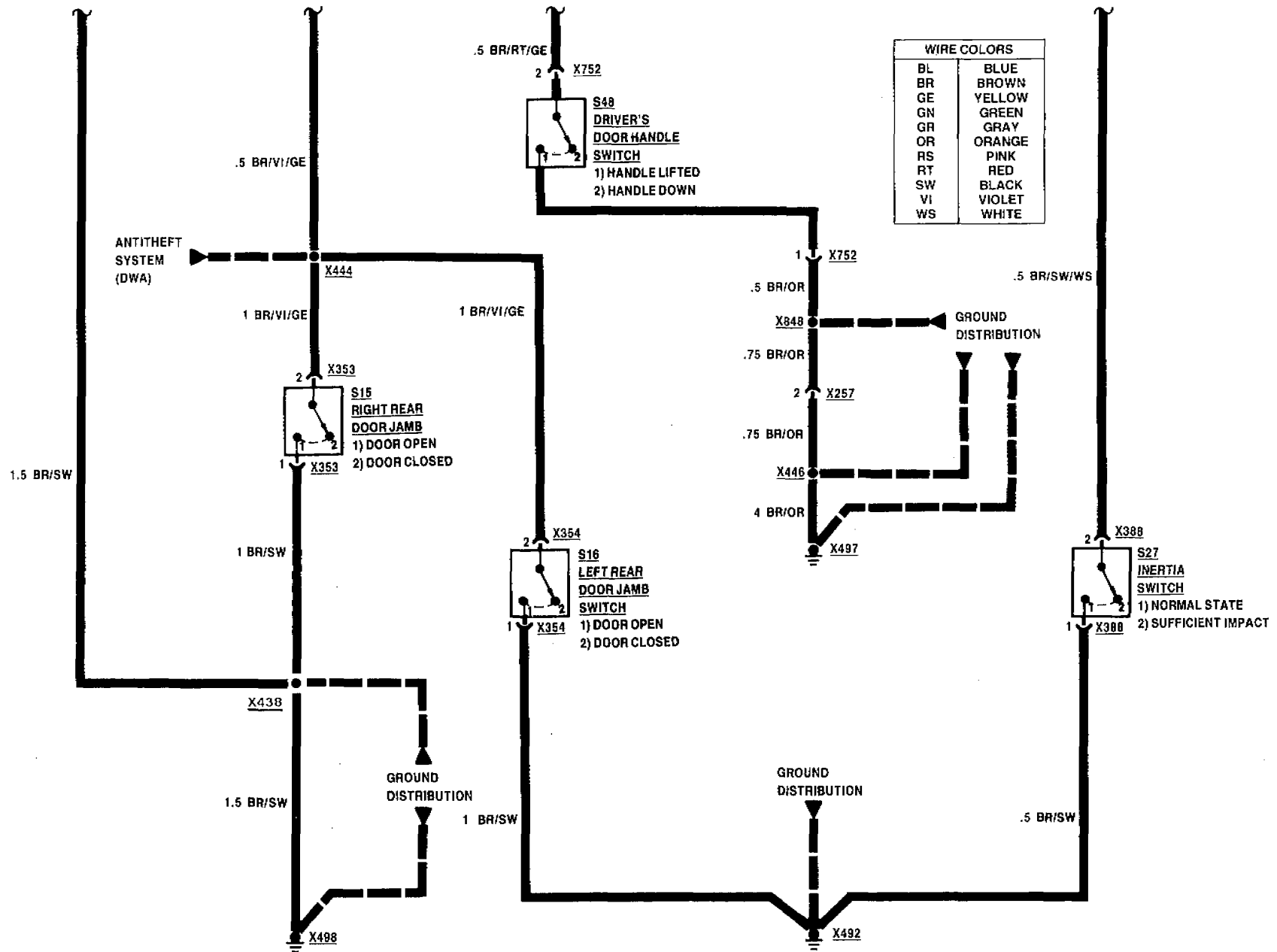


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# INTERIOR LIGHTS (ZKE)

## INPUT DETAILS



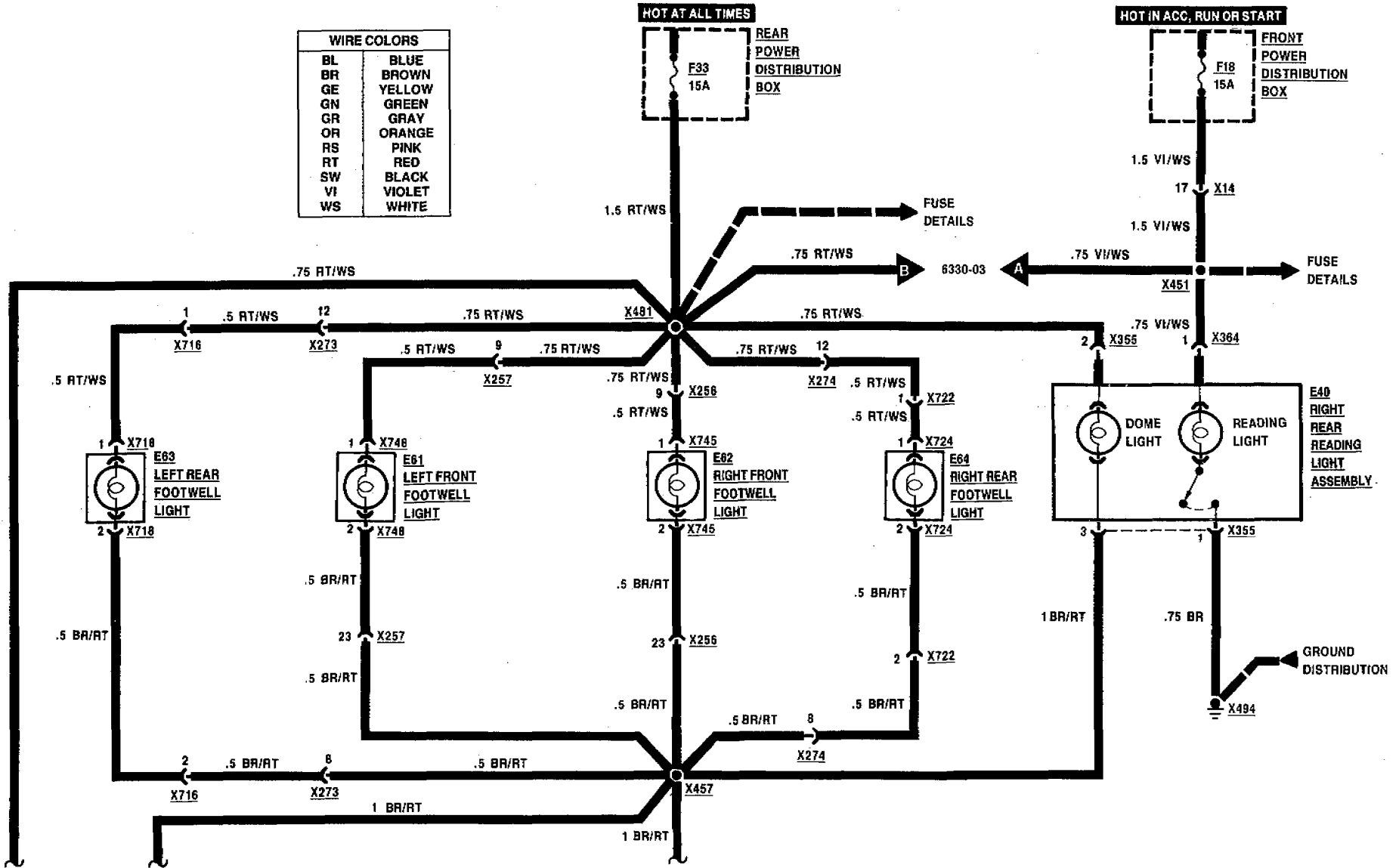


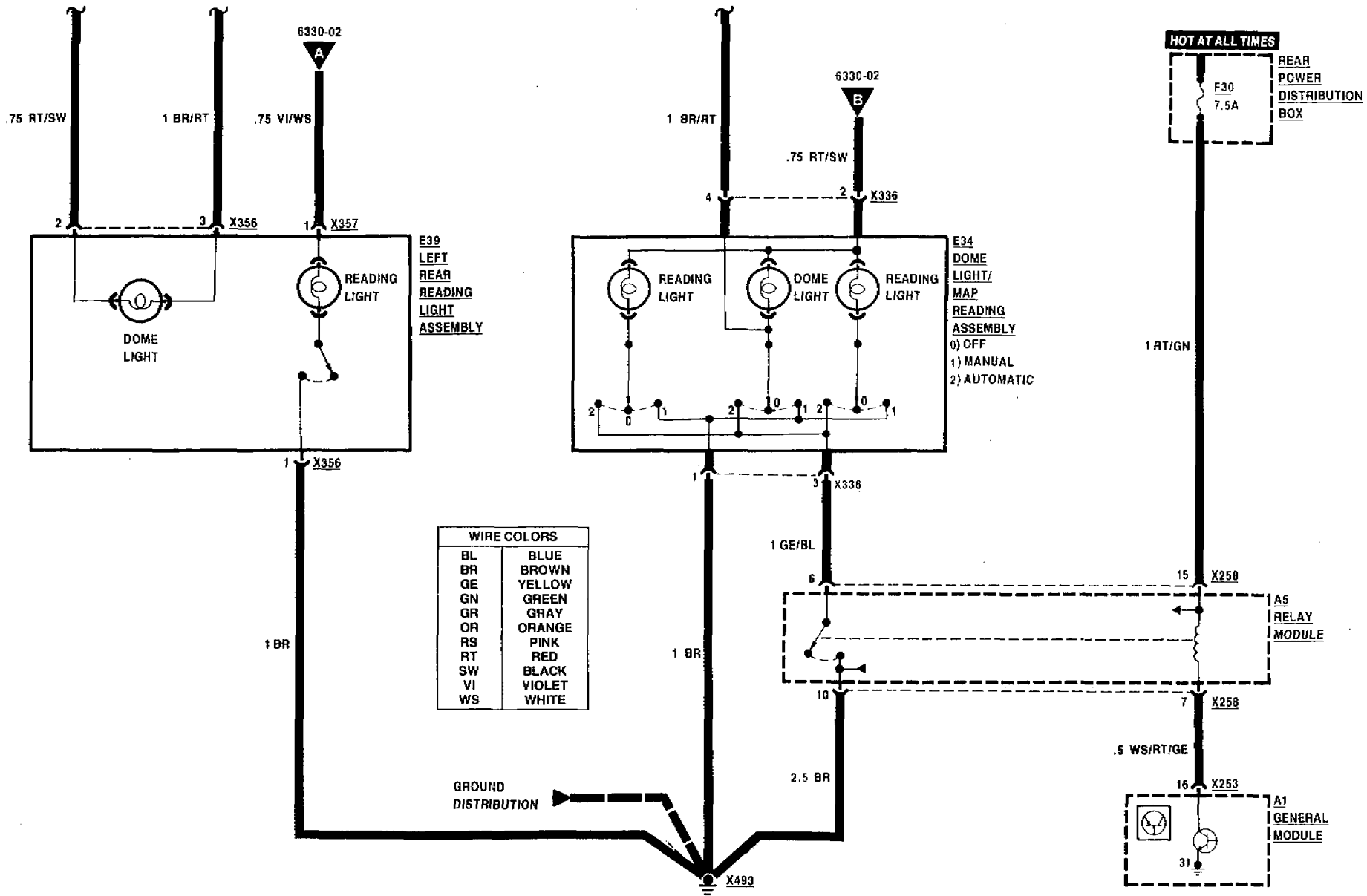


# INTERIOR LIGHTS (ZKE)

## OUTPUT DETAILS

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

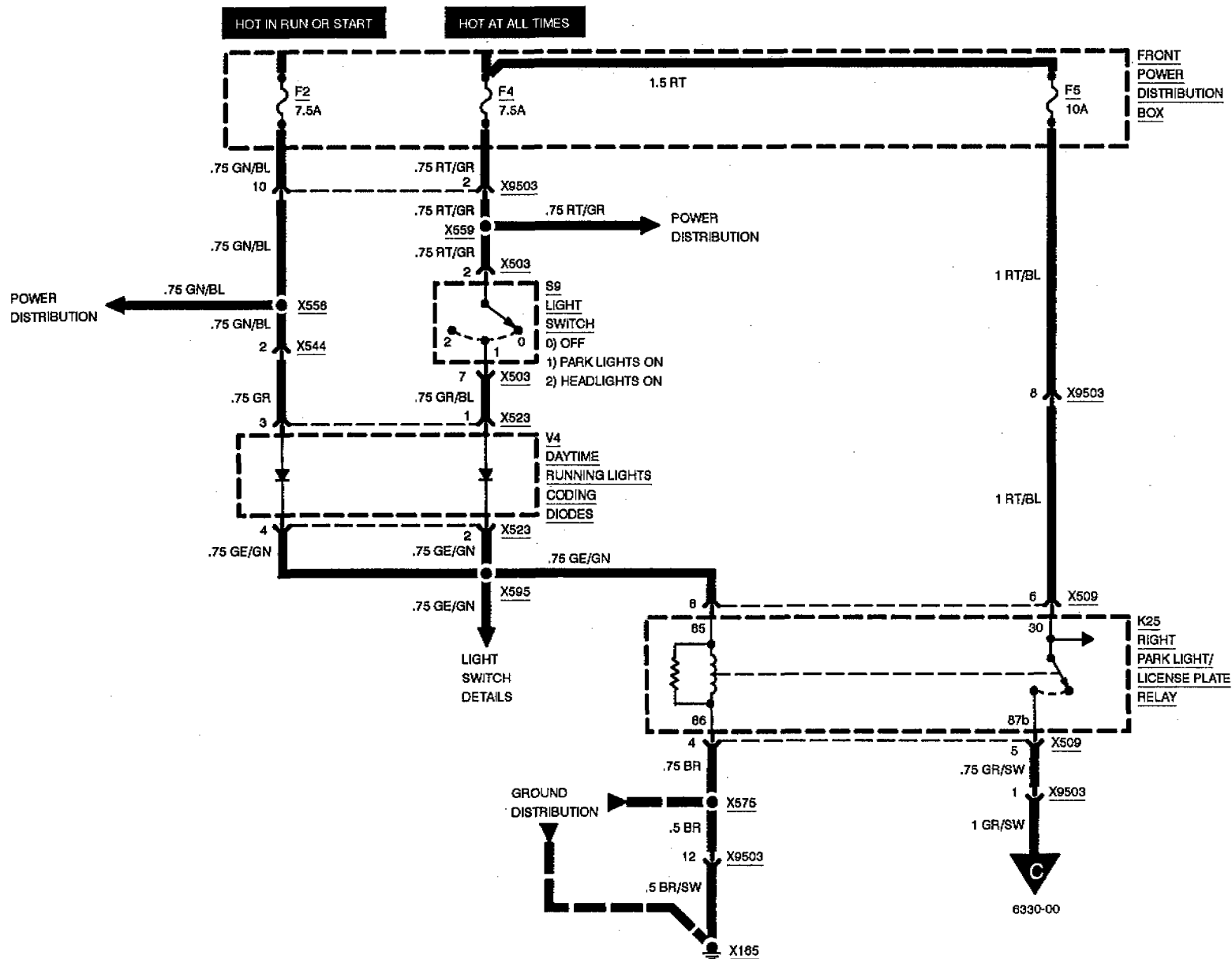






# INTERIOR LIGHTS (ZKE) INPUT DETAILS

CANADA



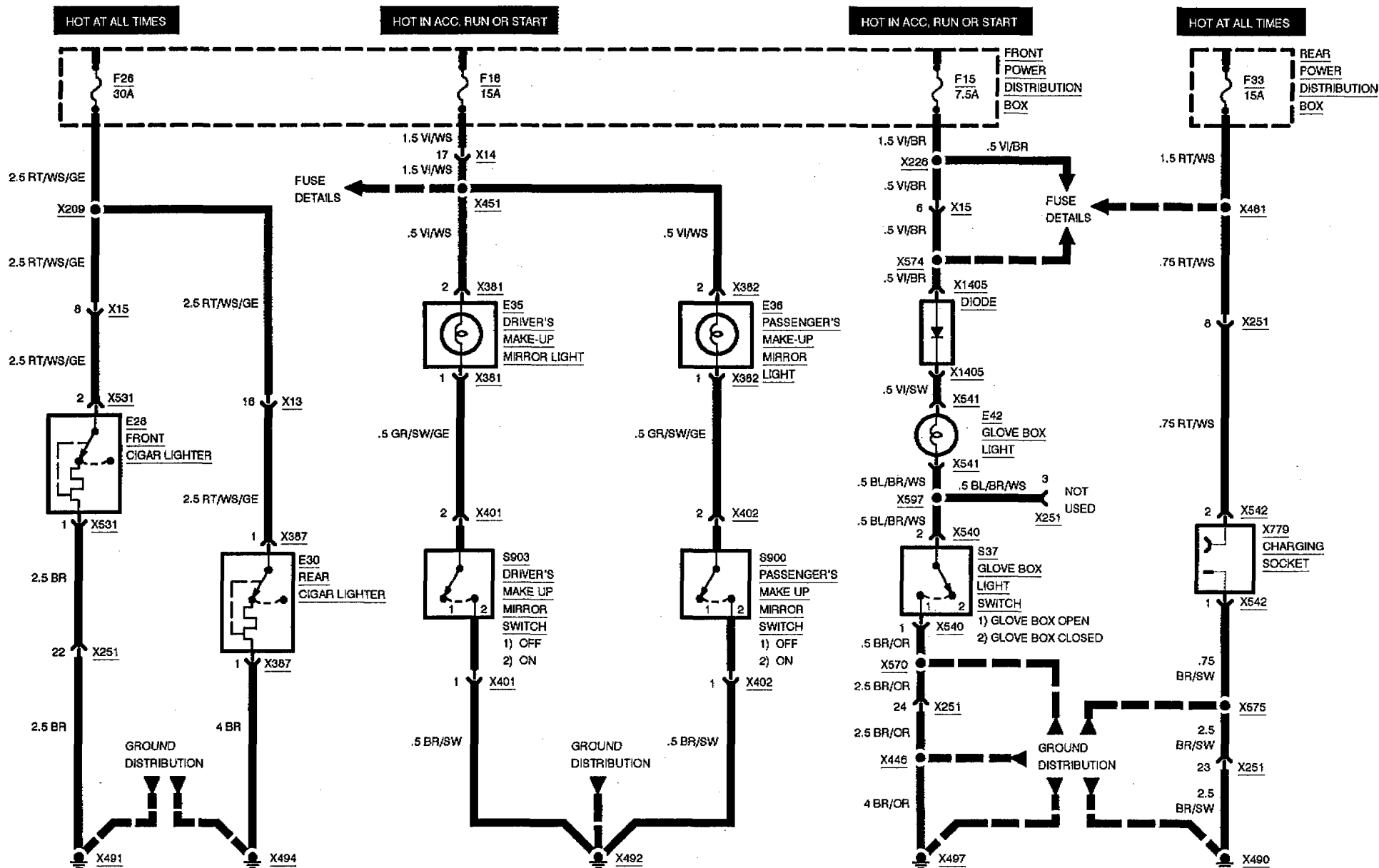
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE







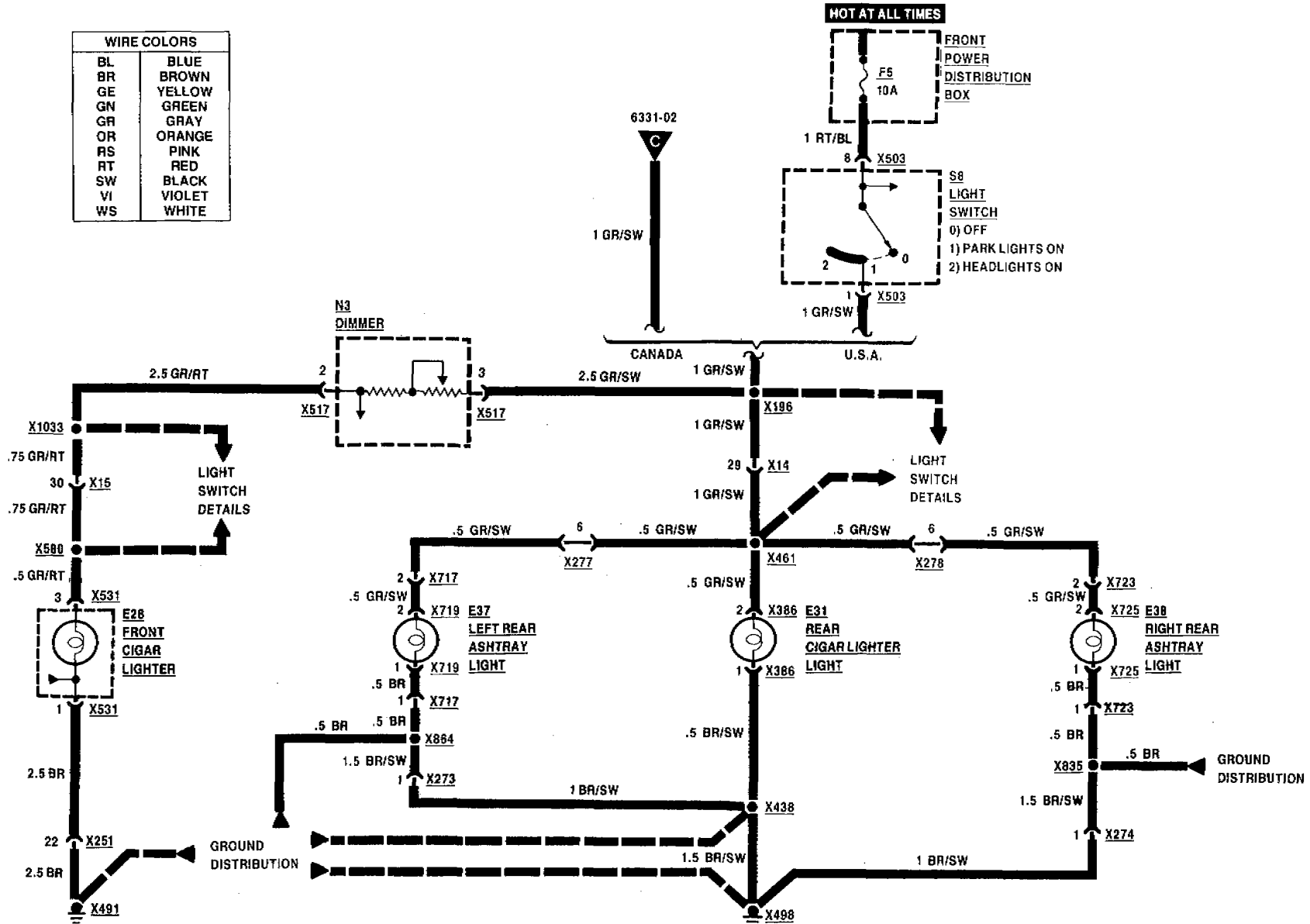
# GLOVE BOX LIGHT/CIGAR LIGHTER/ASHTRAY LIGHT/CHARGE PLUG/MAKE-UP MIRROR LIGHTS





# GLOVE BOX LIGHT/CIGAR LIGHTER/ASHTRAY LIGHT/CHARGING PLUG/MAKE-UP MIRROR LIGHTS

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

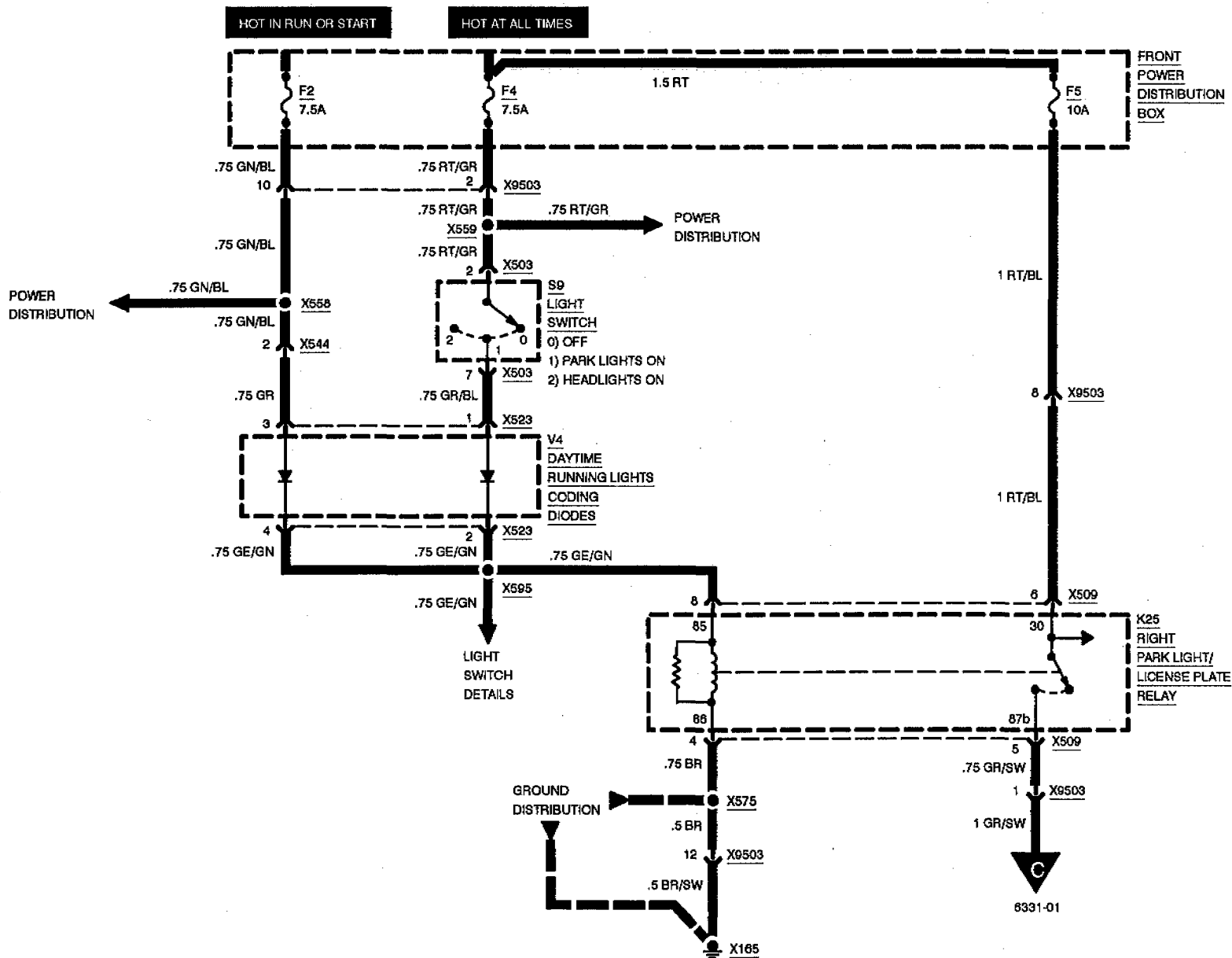




# GLOVE BOX LIGHT/CIGAR LIGHTER/ASHTRAY LIGHT/CHARGING PLUG/MAKE-UP MIRROR LIGHTS

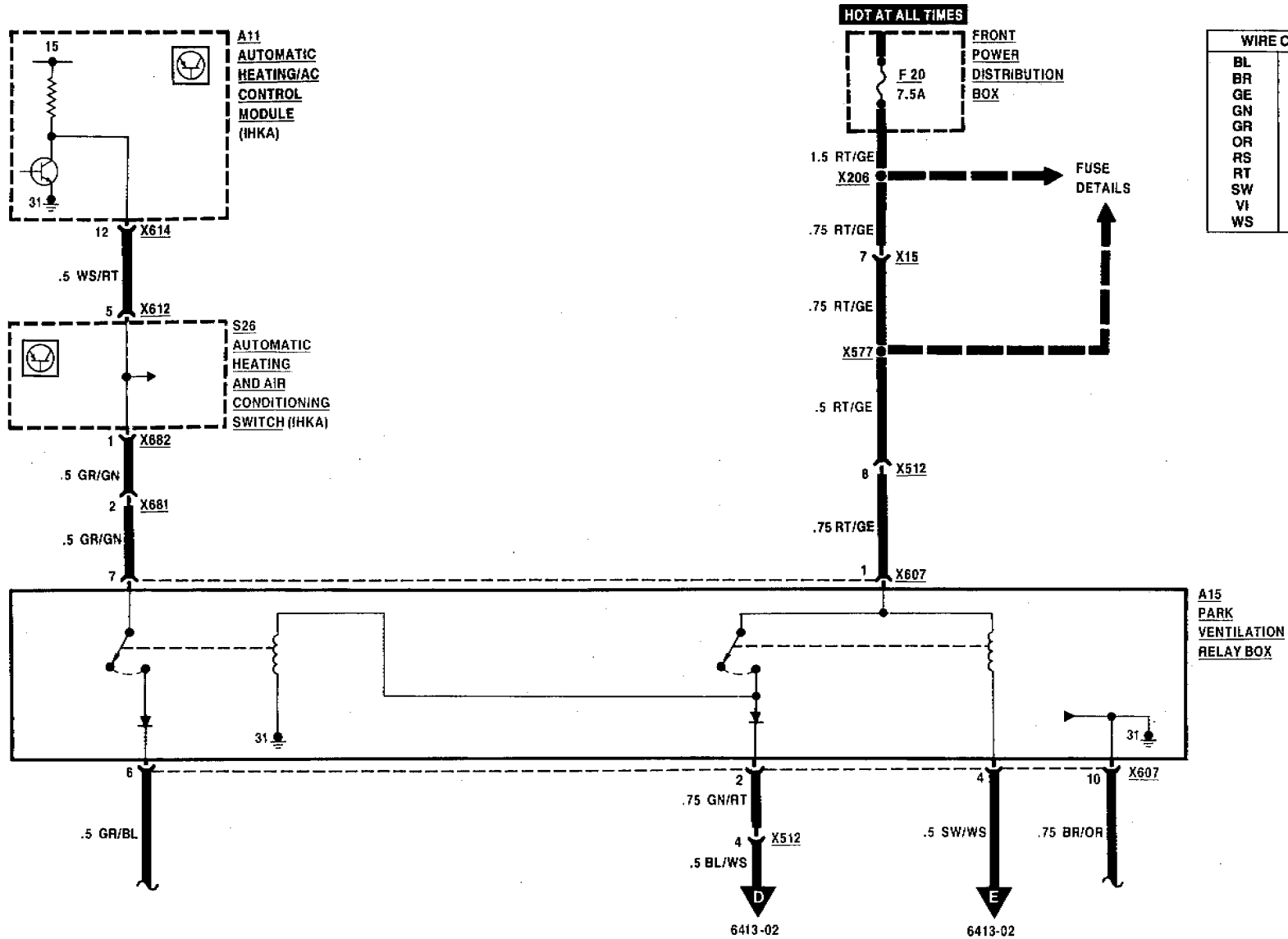
INPUT DETAILS

CANADA

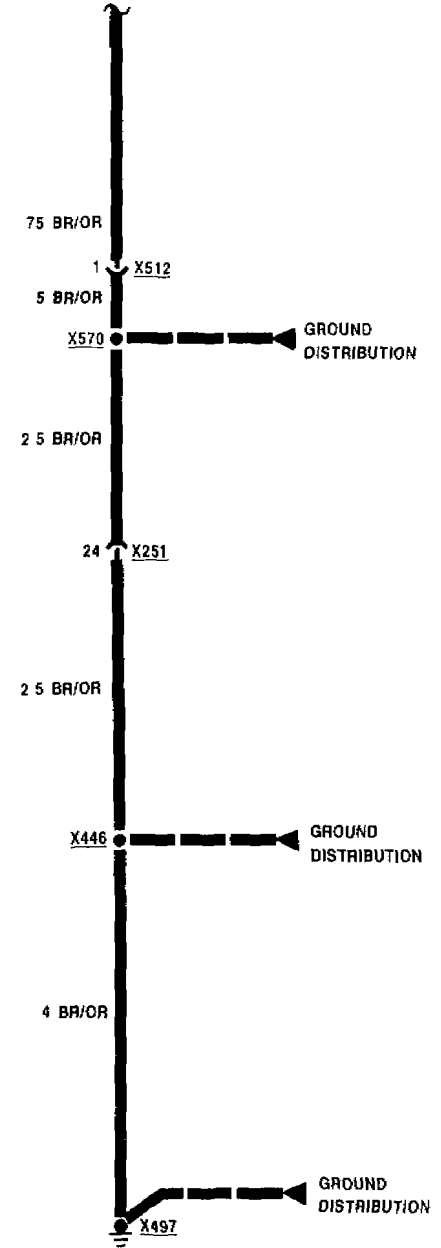
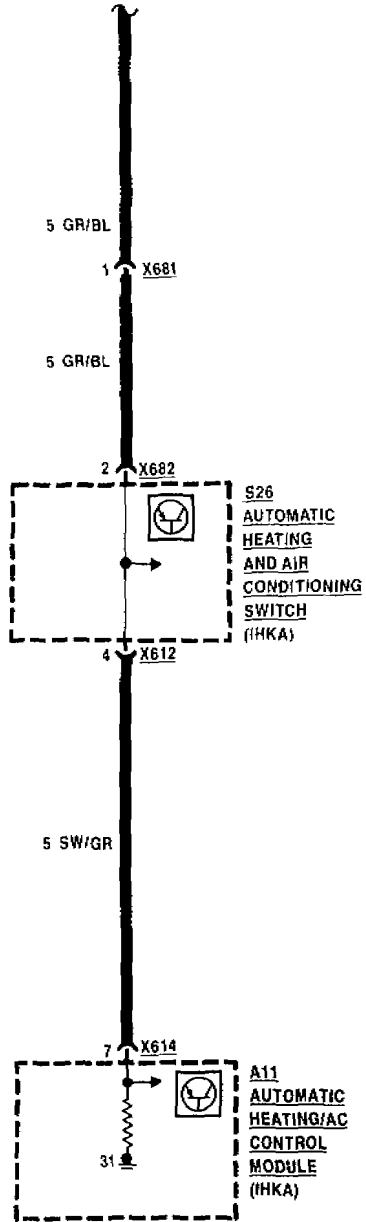


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# PARK VENTILATION



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





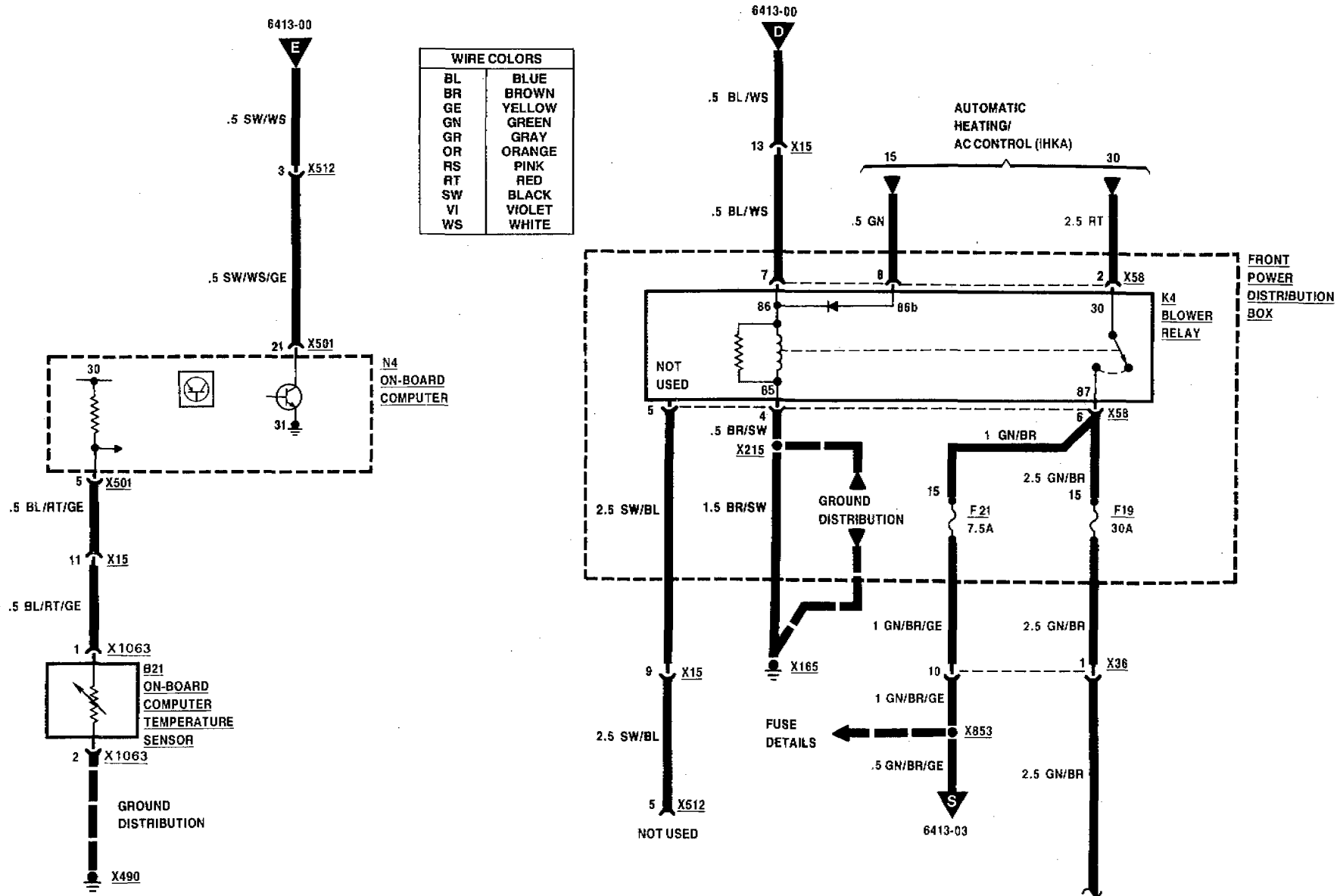
# PARK VENTILATION

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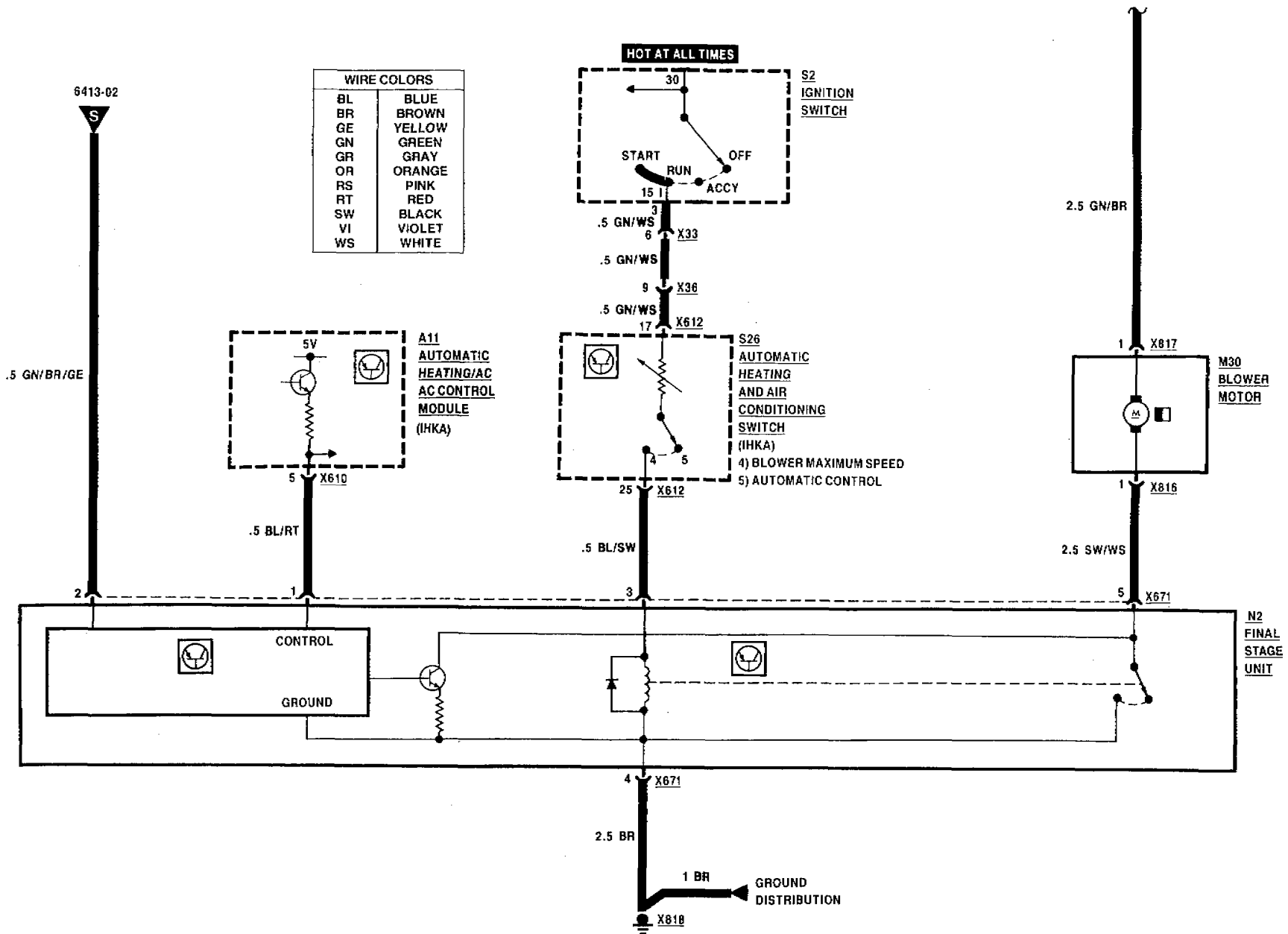
6413-02

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









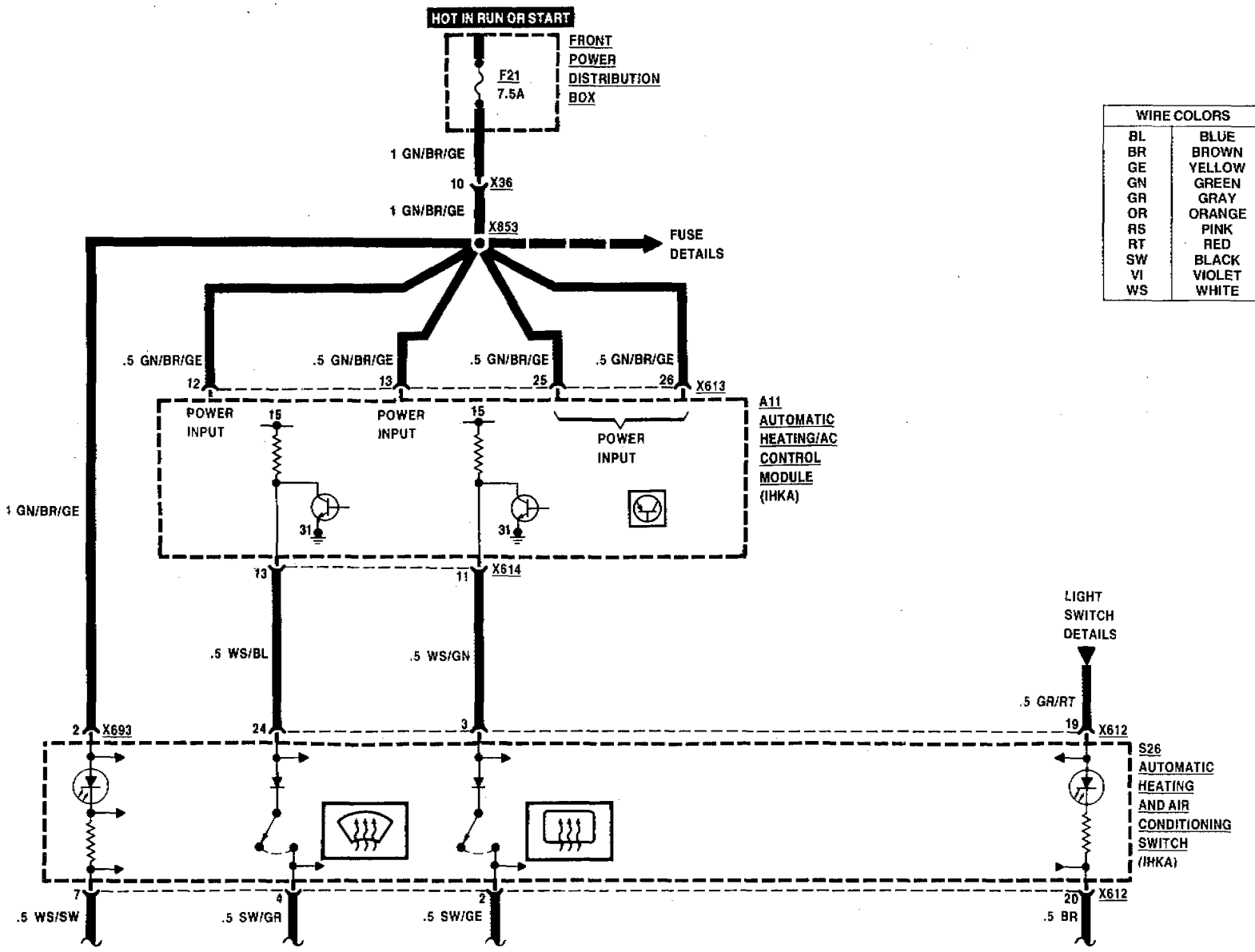
# REAR WINDOW DEFOGGER/ANTENNA

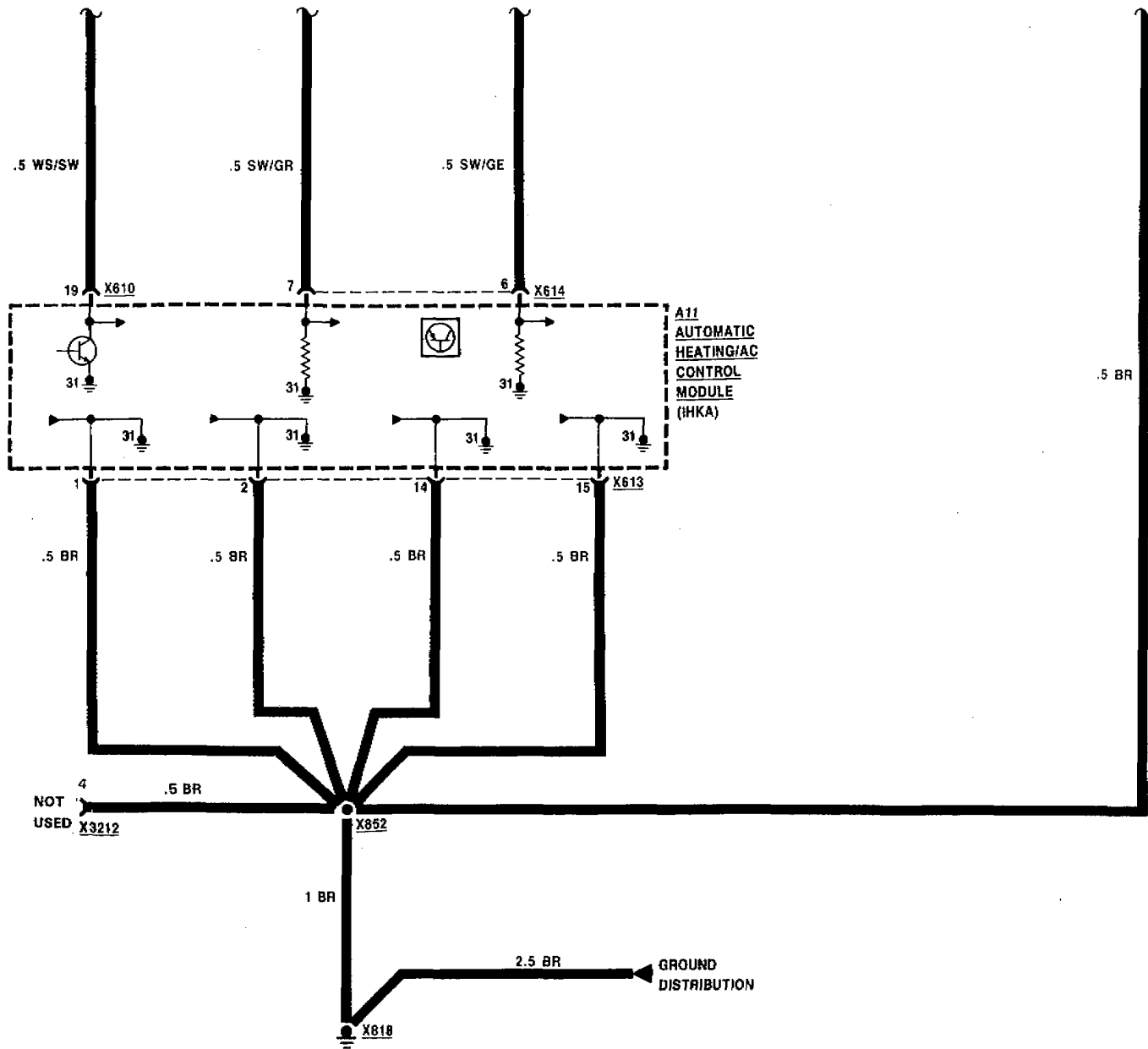
IHKA

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6420-00

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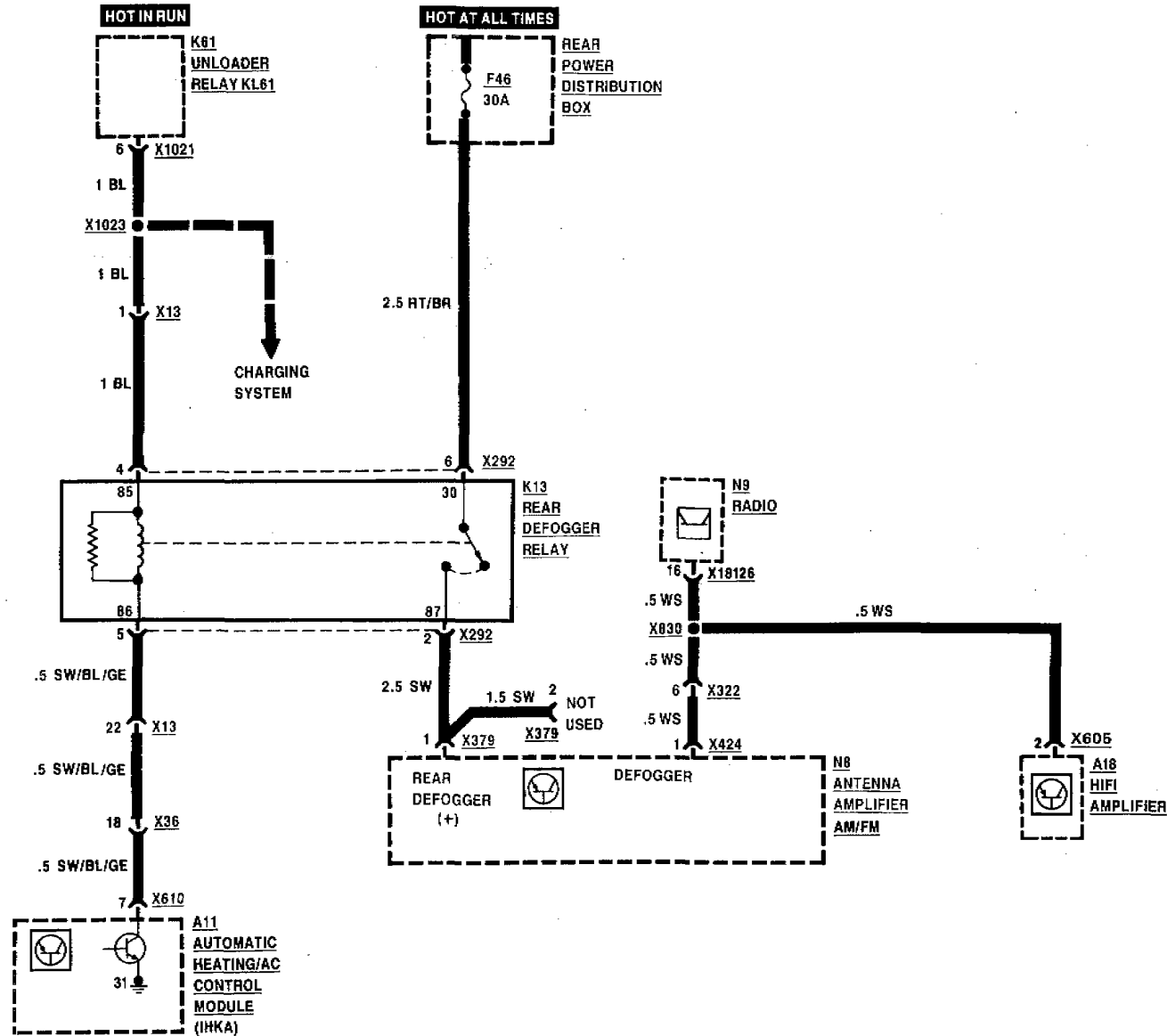
A11  
AUTOMATIC  
HEATING/AC  
CONTROL  
MODULE  
(IHKA)

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



# REAR WINDOW DEFOGGER/ANTENNA

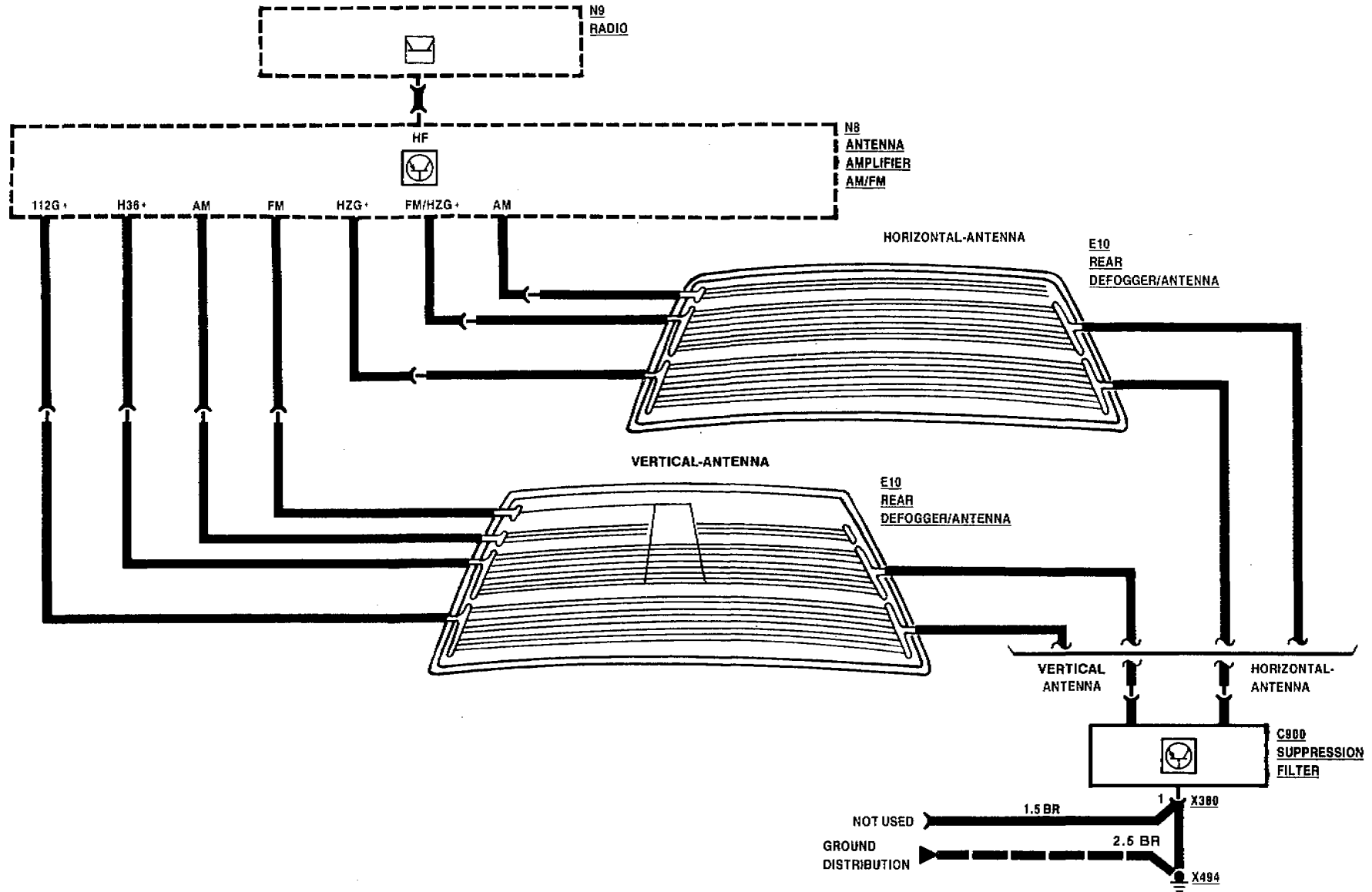
## IHKA





# REAR WINDOW DEFOGGER/ANTENNA

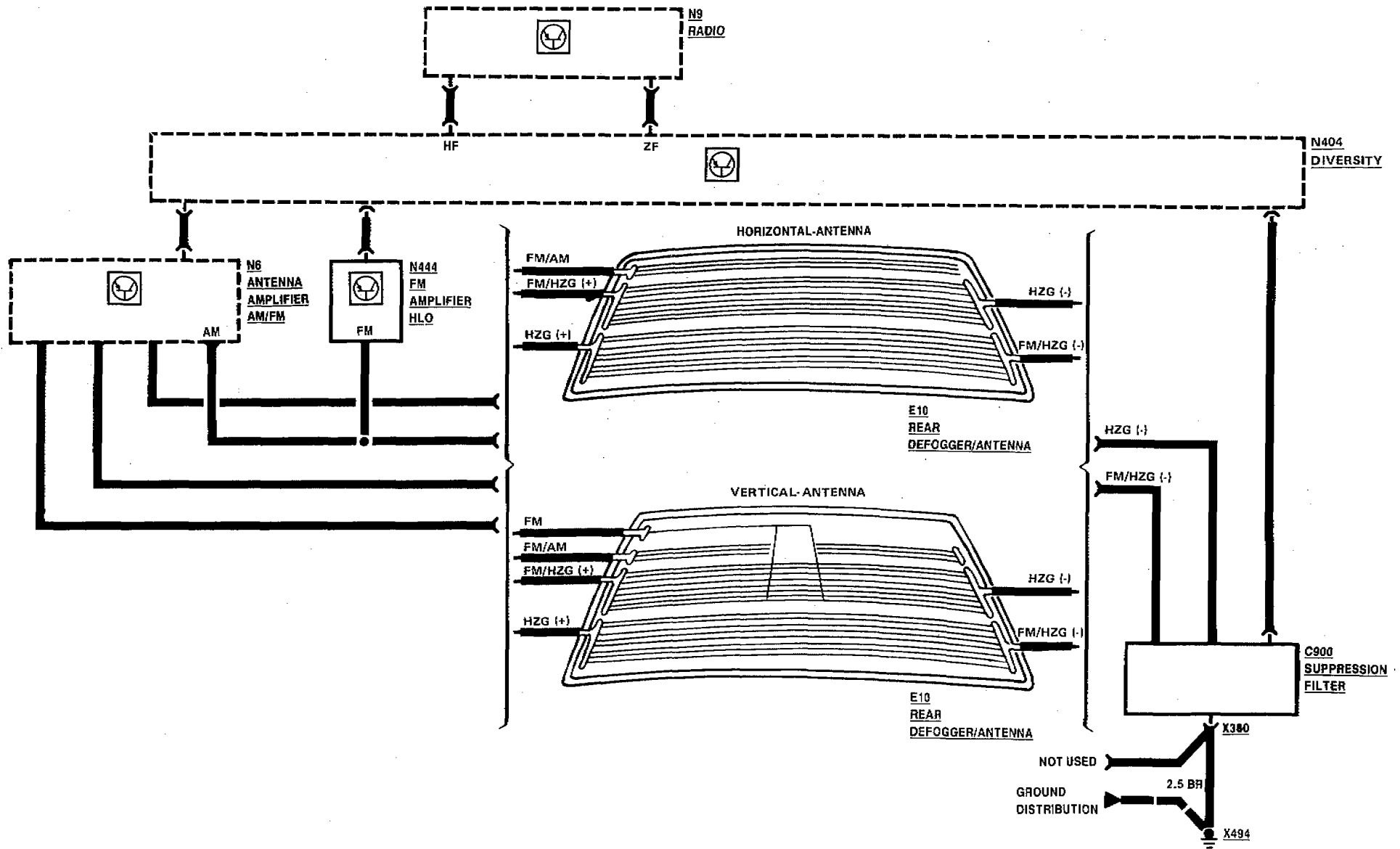
## DEFOGGER-ANTENNA





# REAR WINDOW DEFOGGER/ANTENNA

## 3-ANTENNA - DIVERSITY



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6420-04

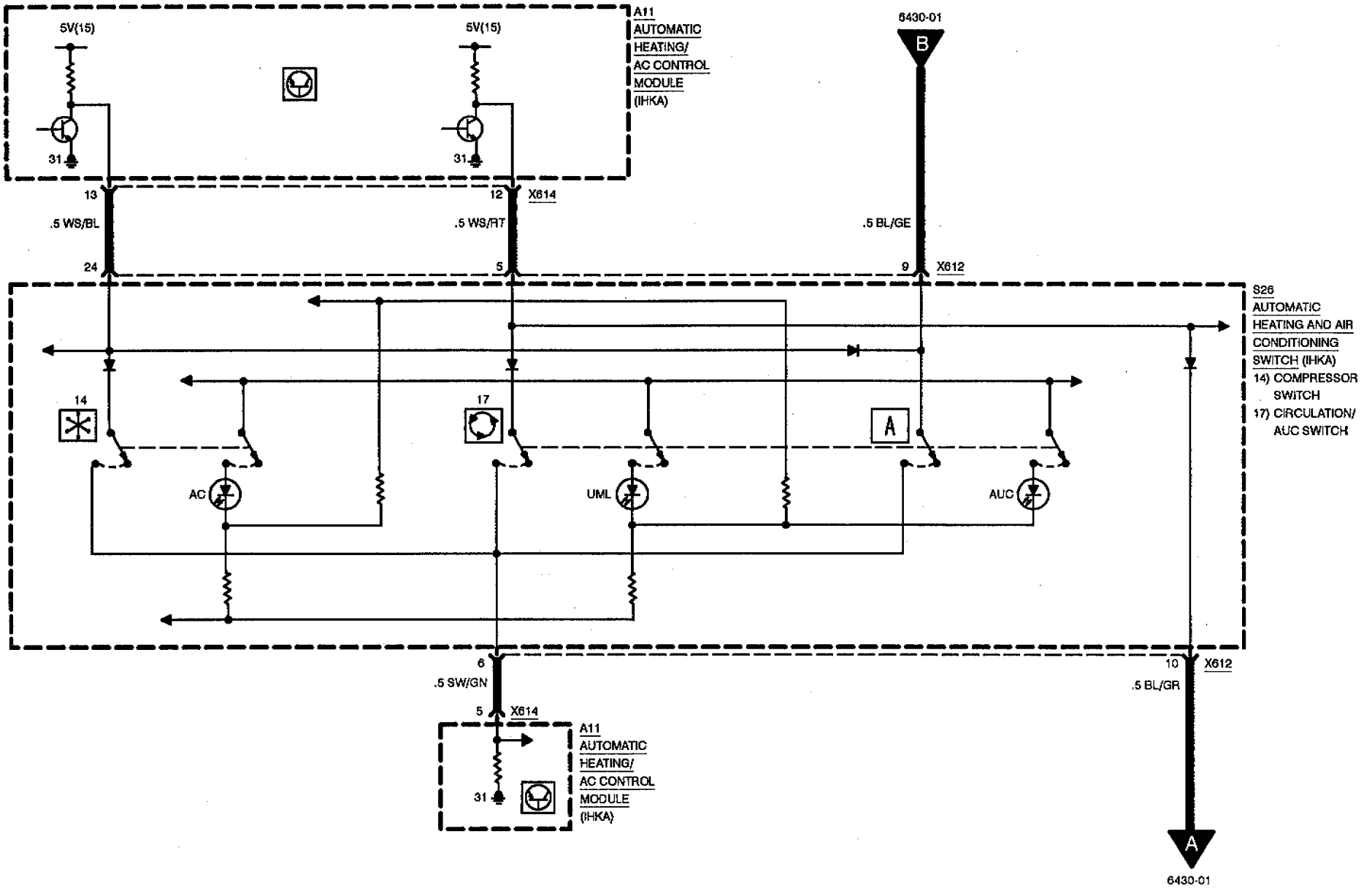
93/94





# AUTOMATIC AIR RECIRCULATION CONTROL (AUC)

## AUC WITH IHKA

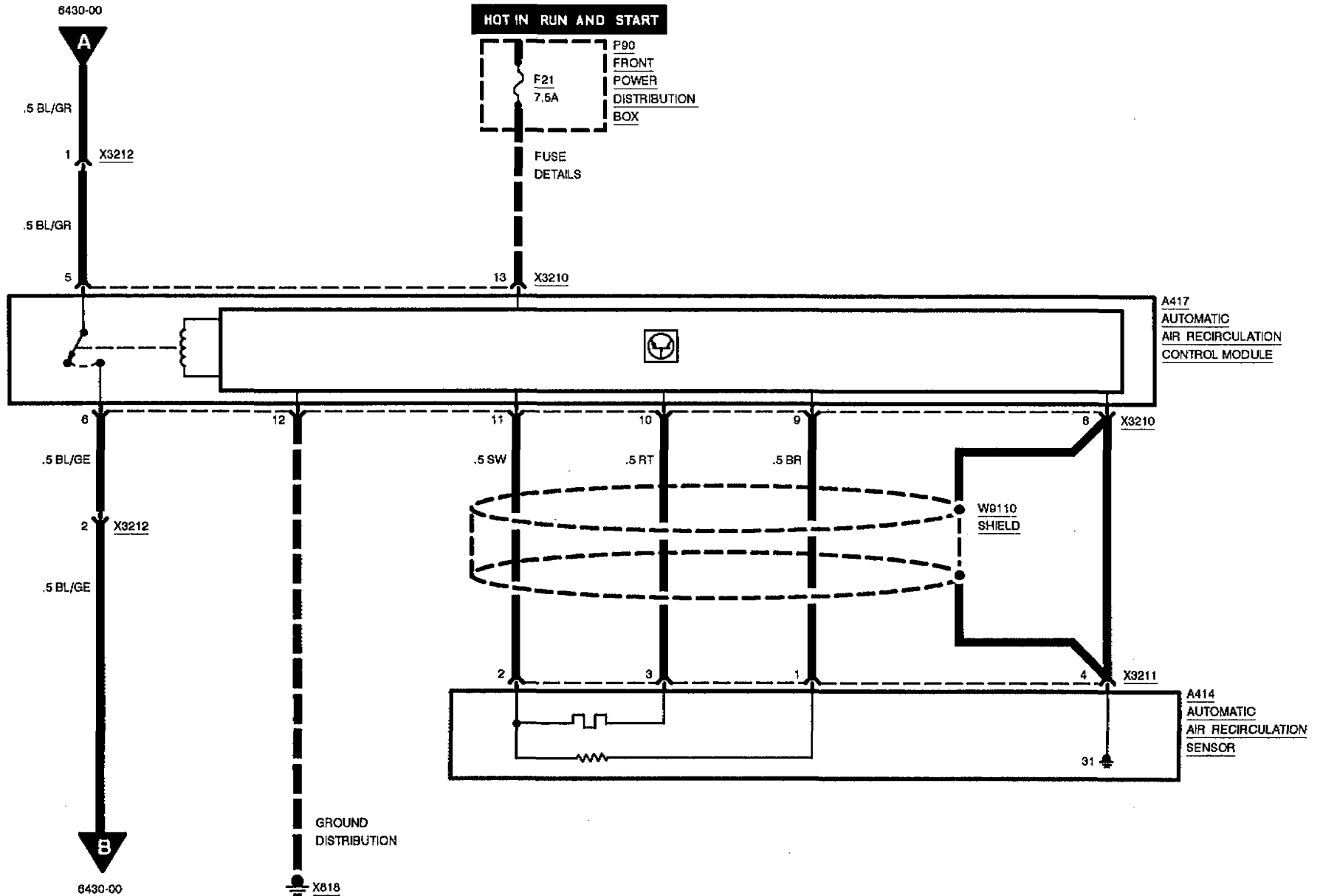






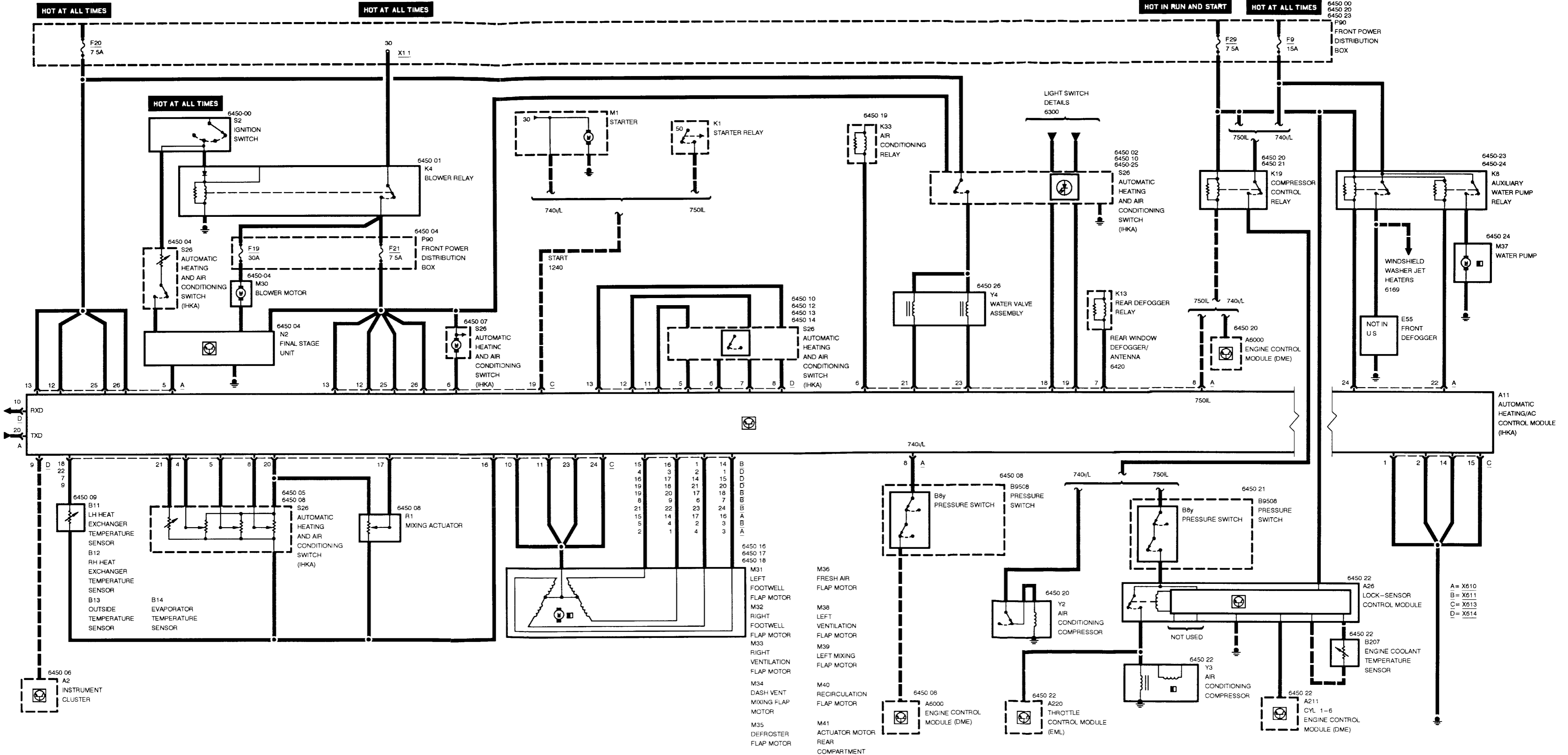
# AUTOMATIC AIR RECIRCULATION CONTROL (AUC)

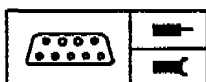
## AUC WITH IHKA





6430-02





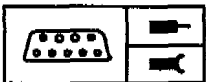
## Pin Assignments

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

### X610

Pin	Type	Description/Function	Connection
1	A	Flap motor drive, rear	Rear flap motor
2	A	Flap motor drive, rear	Rear flap motor
3	A	Flap motor drive, rear	Rear flap motor
4	A	Flap motor drive, rear	Rear flap motor
5	A	Blower output stage drive	Final stage unit
6	A	A/C relay drive	A/C relay for engine control module
7	A	Rear defogger relay drive	Rear defogger relay
8	A	Compressor relay drive (750iL)	Compressor control relay (750iL)
	A	Pressure switch drive (740i)	Pressure switch, B8y (740i)
9		Not used	
10		Not used	
11		Not used	
12	E	Continuous plus supply terminal 30	Front power distribution box
13	E	Continuous plus supply terminal 30	Front power distribution box
14	A	Flap motor drive air circulation	Flap motor, air circulation
15	A	Flap motor drive air circulation	Flap motor, air circulation
16	A	Flap motor drive air circulation	Flap motor, air circulation
17	A	Flap motor drive air circulation	Flap motor, air circulation
18	A	Function light drive	IHKA switch, S26
19	A	Rear window function light drive	IHKA switch, S26
20	E	Diagnosis	Data link connector, TxD
21	A	Left water valve drive	Water valve, left side
22	A	Auxiliary water pump drive	Front defogger/Auxiliary water pump relay
23	A	Right water valve drive	Water valve, right side
24	A	Front defogger	Front defogger/Auxiliary water pump relay

E = Input, A = Output, M = Ground



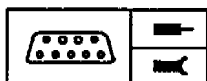
## Pin Assignments

Pin	Type	Description/Function	Connection
25	E	Continuous plus supply terminal 30	Front power distribution box
26	E	Continuous plus supply terminal 30	Front power distribution box

### X611

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

E = Input, A = Output, M = Ground

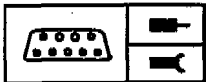


## Pin Assignments

### X613

Pin	Type	Description/Function	Connection
1	M	Ground	Ground point X818
2	M	Ground	Ground point X818
3		Not used	
4	E	Set temperature value left (potentiometer)	IHKA switch, S26
5	E	Set air volume value (potentiometer)	IHKA switch, S26
6	A	Inside sensor blower (ground)	IHKA switch, S26
7	E/A	Actual outside temperature value	Outside temperature sensor, B13
8	E	Set temperature value right (potentiometer)	IHKA switch, S26
9	E	Actual evaporator temperature	Evaporator sensor, B14
10	A	Battery+ for flap motors	Battery+ from control unit to motors
11	A	Battery+ for flap motors	Battery+ from control unit to motors
12	E	Ignition ON, terminal 15	Front power distribution box
13	E	Ignition ON, terminal 15	Front power distribution box
14	M	Ground	Ground point X818
15	M	Ground	Ground point X818
16	A	Ground for sensors and control dials	Ground from IHKA switch, S26 for all sensors and control dials
17	E	Set mixing value (potentiometer)	Mixing control wheel in ventilation grille
18	E/A	Left actual heater value	Left heater sensor
19	E	Starter, terminal 50 (30h)	Solenoid switch
20	A	+5V supply from control unit	IHKA switch, S26
21	E/A	Actual inside temperature value	IHKA switch, S26
22	E/A	Right actual heater value	Right heater sensor
23	A	Battery+ for flap motors	Battery+ from control unit to motors
24	A	Battery+ for flap motors	Battery+ from control unit to motors
25	E	Ignition ON, terminal 15	Front power distribution box
26	E	Ignition ON, terminal 15	Front power distribution box

E = Input, A = Output, M = Ground



## Pin Assignments

### X614

Pin	Type	Description/Function	Connection
1	A	Flap motor drive, right footwell	Right footwell flap motor
2	A	Flap motor drive, right footwell	Right footwell flap motor
3	A	Flap motor drive, right footwell	Right footwell flap motor
4	A	Flap motor drive, right footwell	Right footwell flap motor
5	E	Switch for rear area, air circulation climate control	IHKA switch, S26
6	E	Switch for rear windows, max air flow left and bottom left	IHKA switch, S26
7	E	Defroster switch, independent ventilation	IHKA switch, S26
8	E	Switch for max air flow right, bottom right	IHKA switch, S26
9	E	Speed A-Signal	Instrument cluster, A2
10	A	Diagnosis	Data link connector, RXD
11	A	Switch for rear area, rear window independent heating	IHKA switch, S26
12	A	Switch for air circulation, max left, max right, independent circulation	IHKA switch, S26
13	A	Switch for climate control, bottom left, defrost, bottom right	IHKA switch, S26
14	A	Right ventilation flap motor drive	Right ventilation flap motor
15	A	Right ventilation flap motor drive	Right ventilation flap motor
16	A	Right ventilation flap motor drive	Right ventilation flap motor
17	A	Right ventilation flap motor drive	Right ventilation flap motor
18	A	Right mixing flap motor drive	Right mixing flap motor
19	A	Right mixing flap motor drive	Right mixing flap motor
20	A	Right mixing flap motor drive	Right mixing flap motor
21	A	Right mixing flap motor drive	Right mixing flap motor
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26		Not used	

E = Input, A = Output, M = Ground

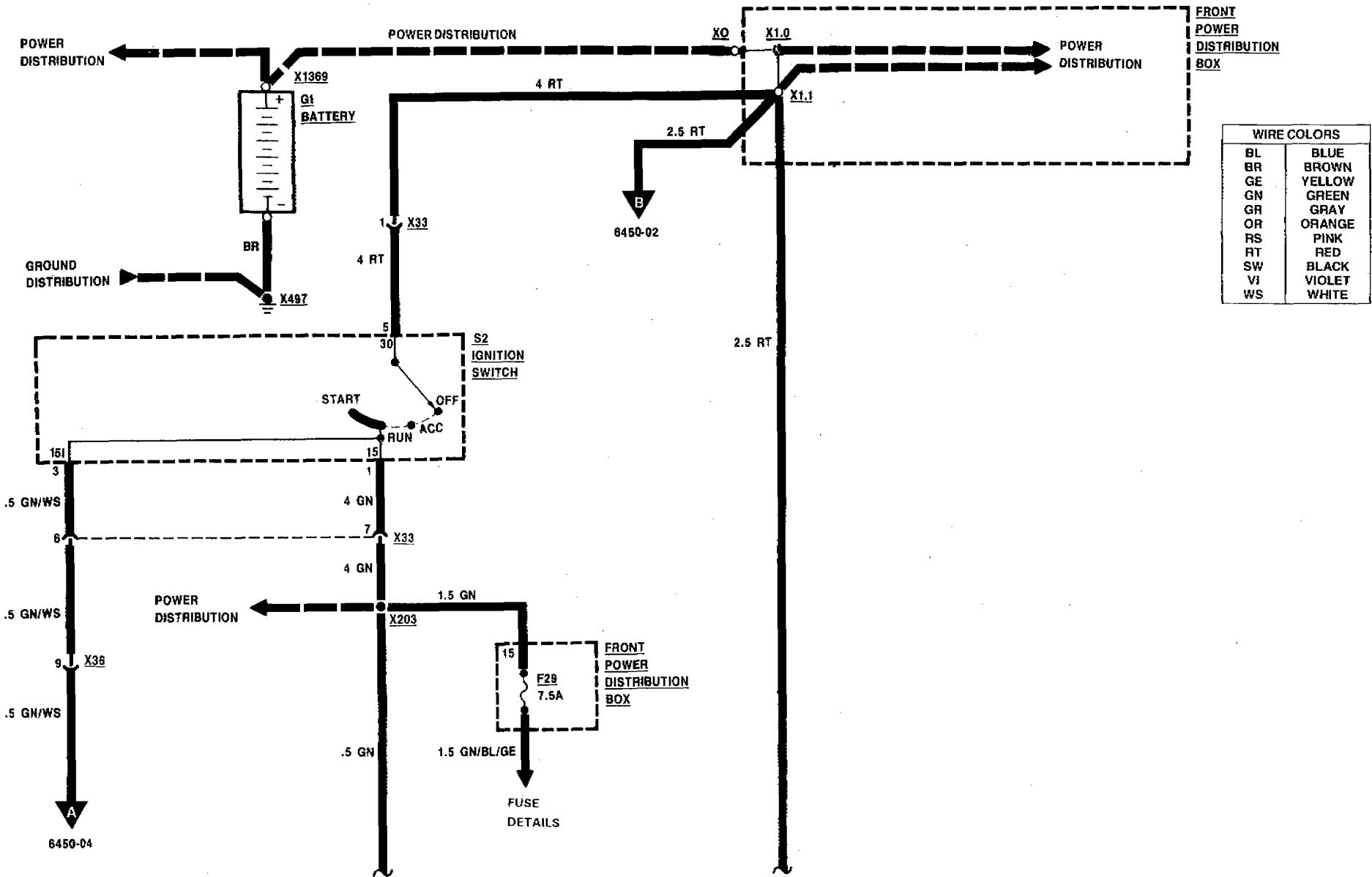
BMW  
7

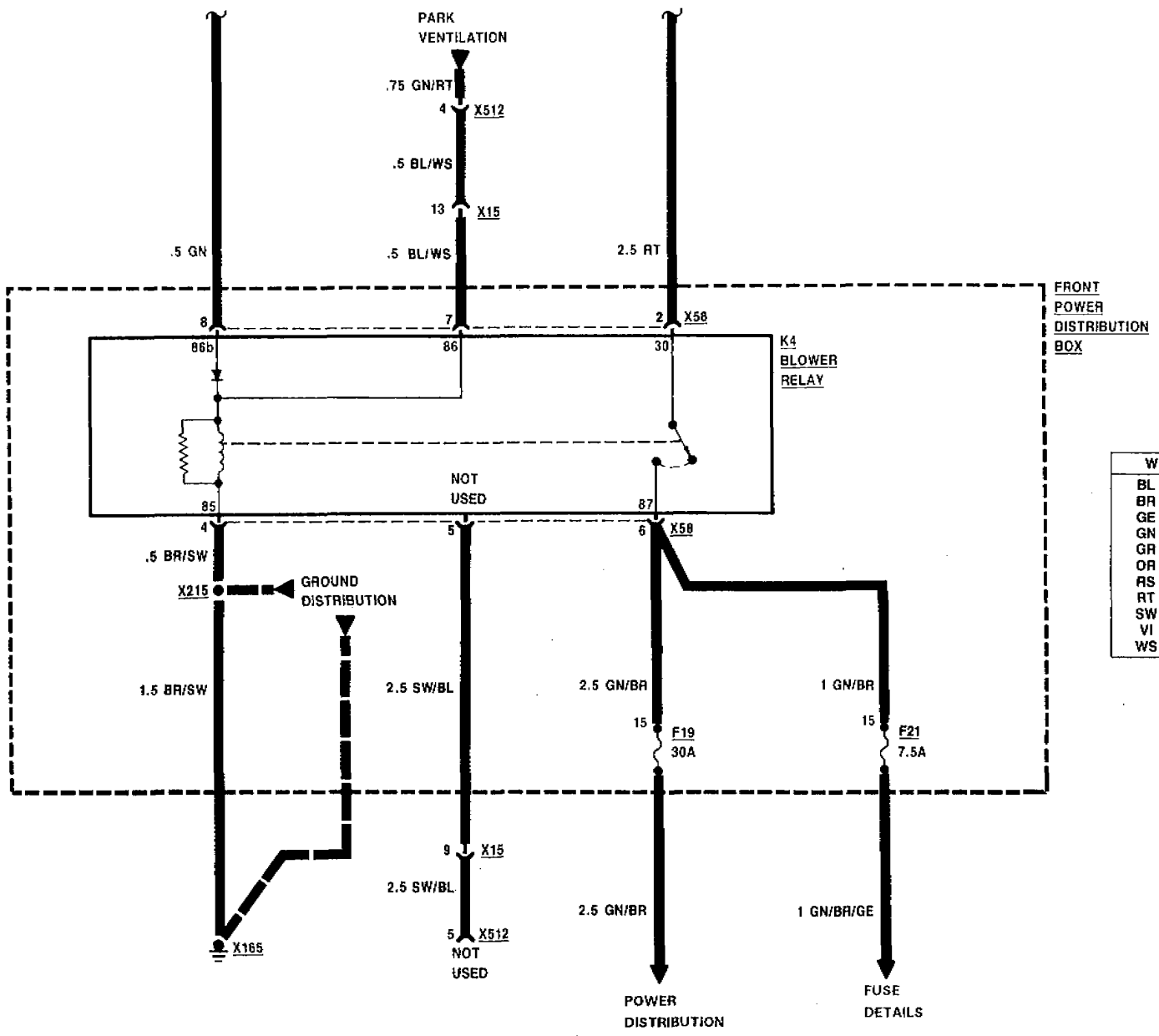




# AUTOMATIC HEATING/AC CONTROL (IHKA)

## POWER





FRONT  
POWER  
DISTRIBUTION  
BOX

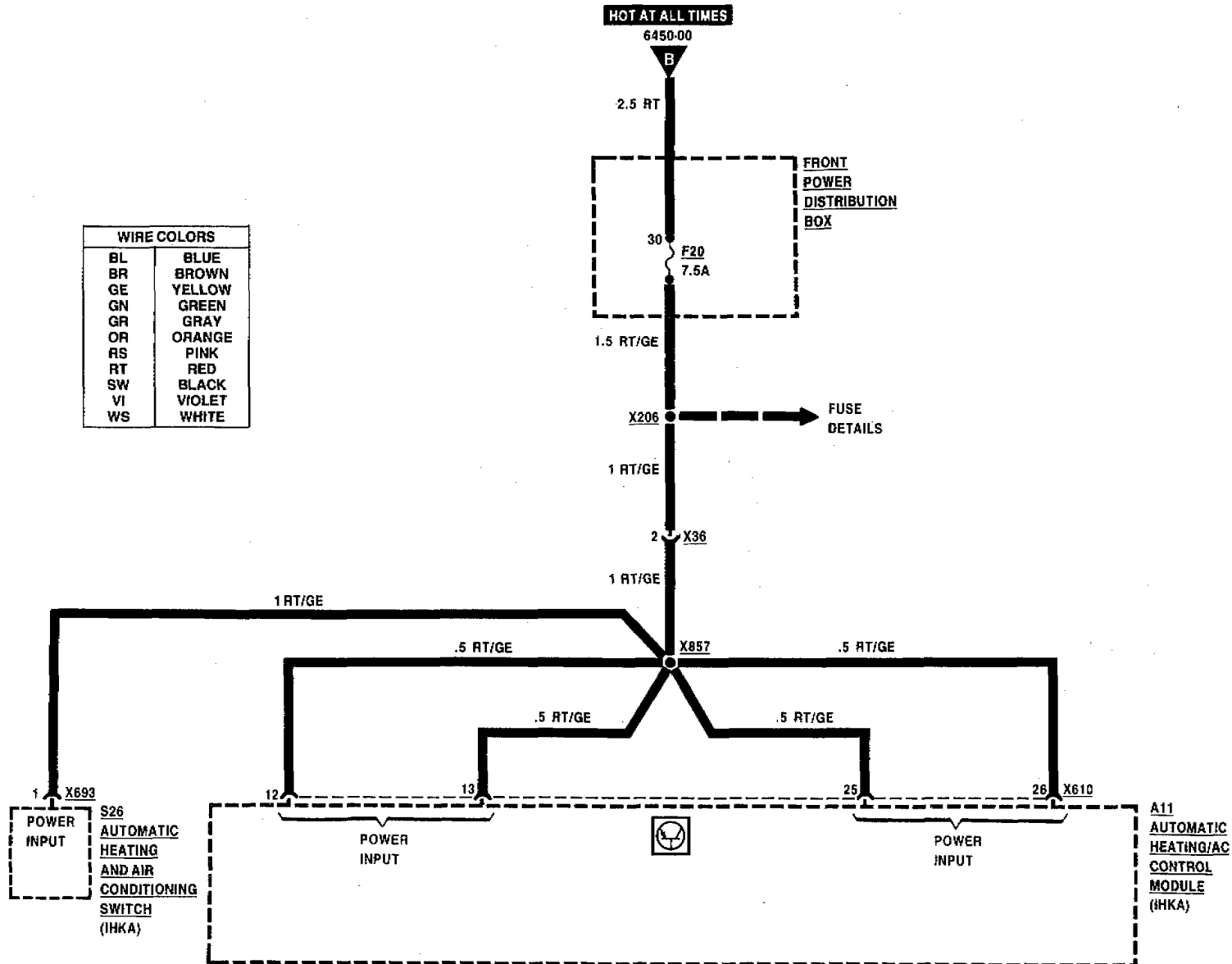
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# AUTOMATIC HEATING/AC CONTROL (IHKA)

## POWER

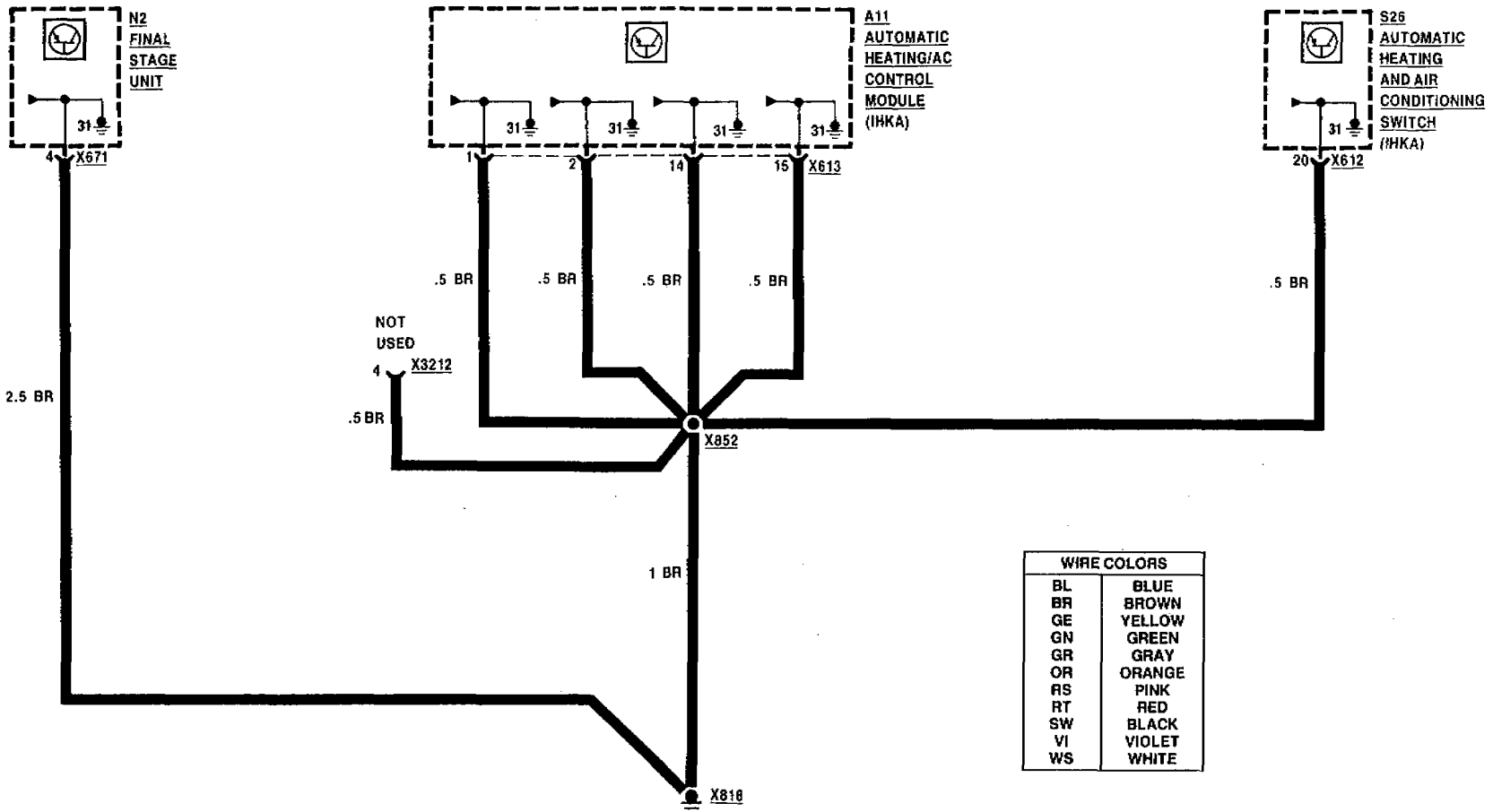
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# AUTOMATIC HEATING/AC CONTROL (IHKA)

## GROUND





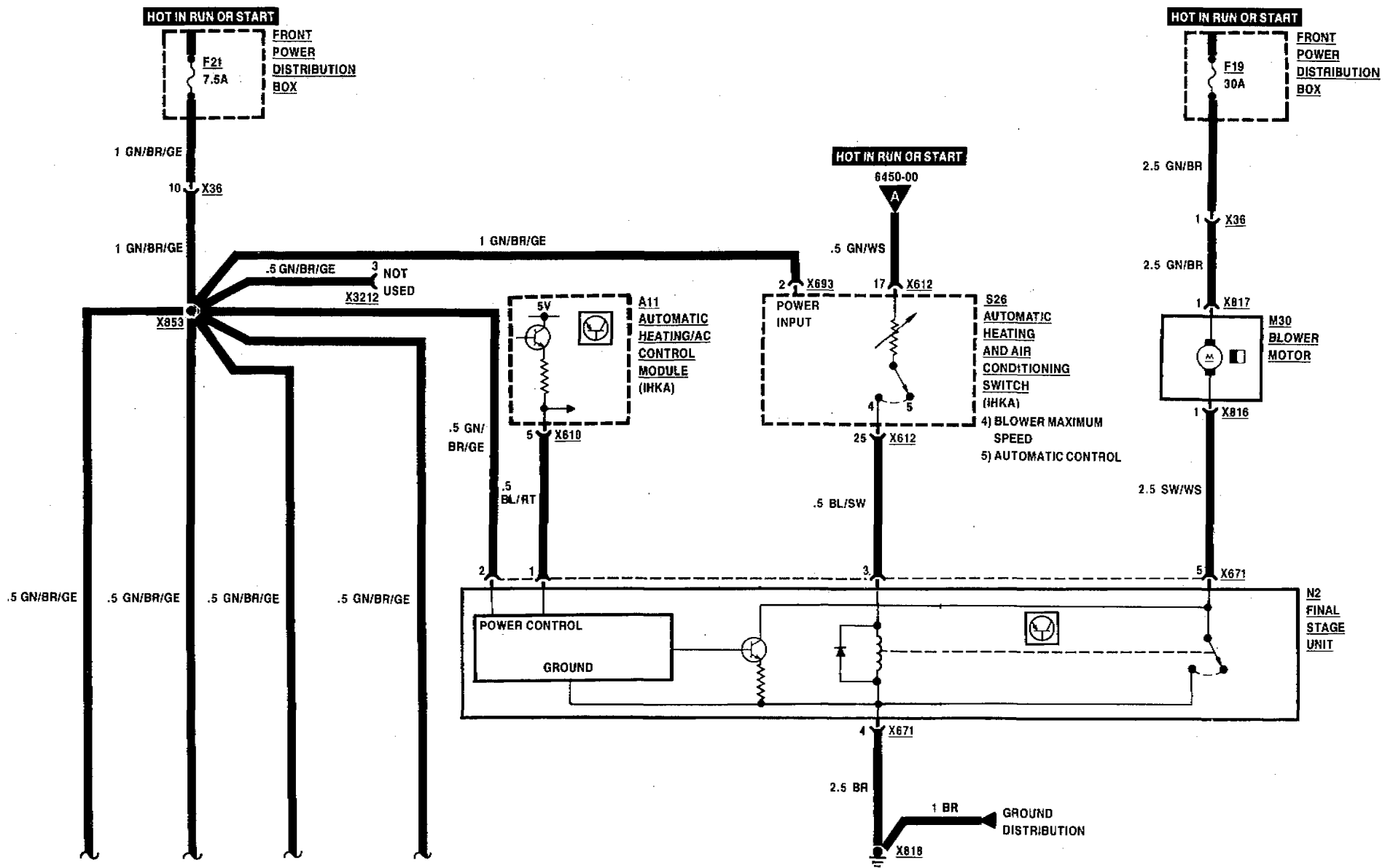
# 7 AUTOMATIC HEATING/AC CONTROL (IHKA)

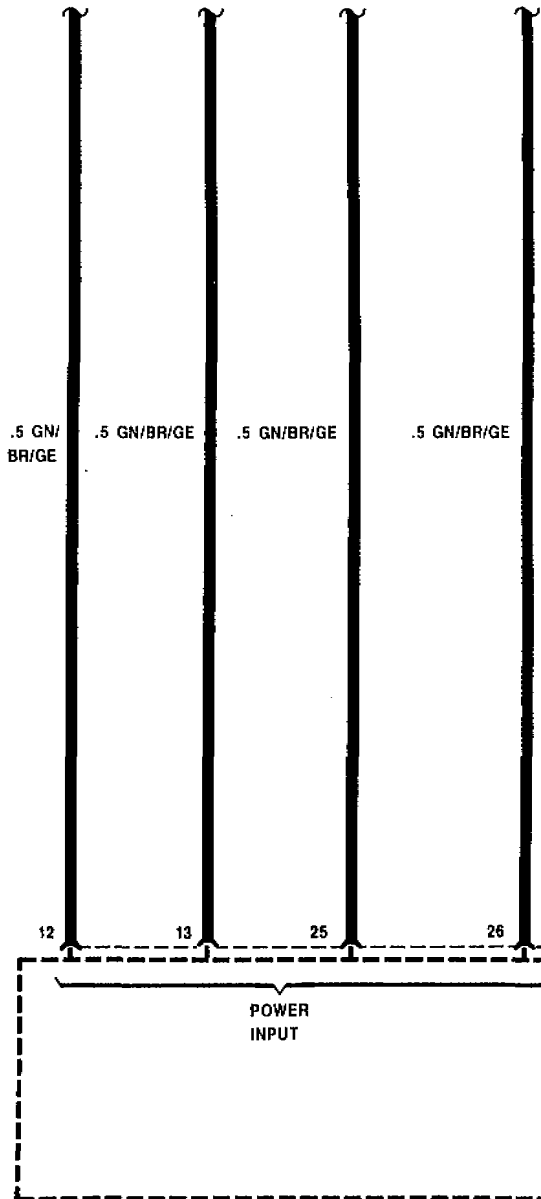
## BLOWER CONTROL

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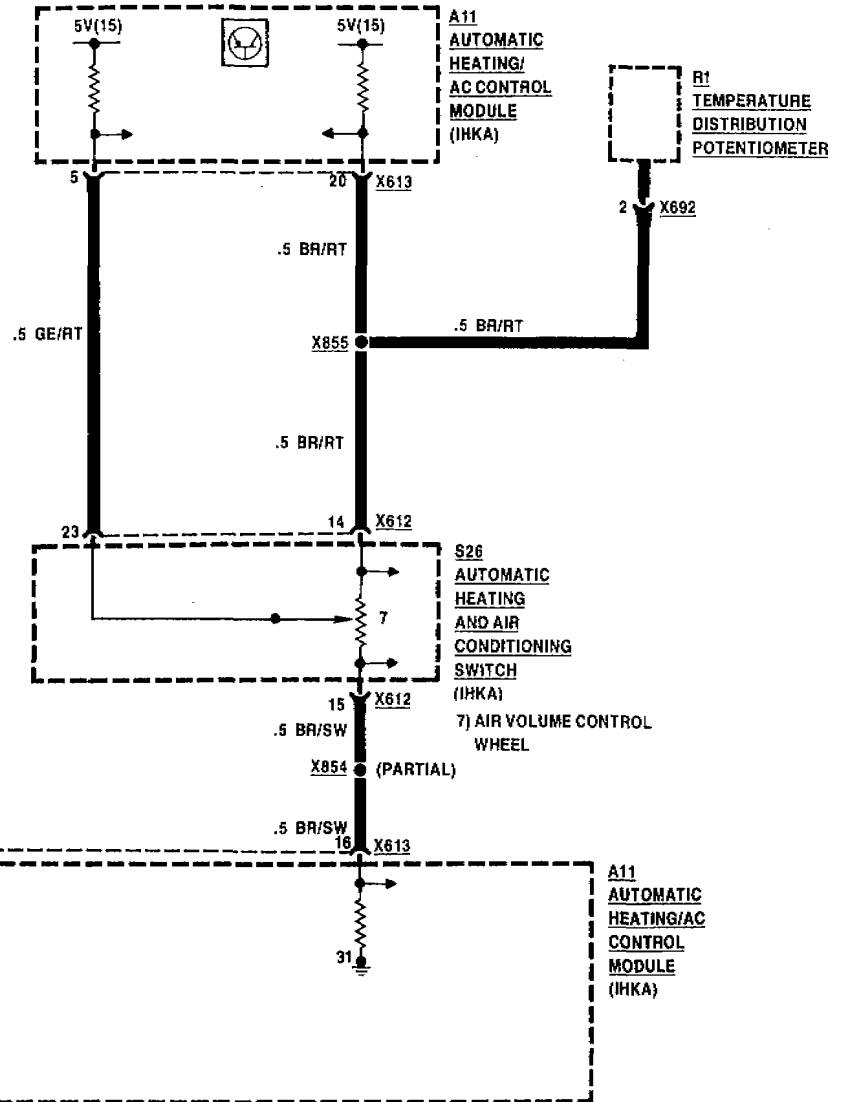
6450-04

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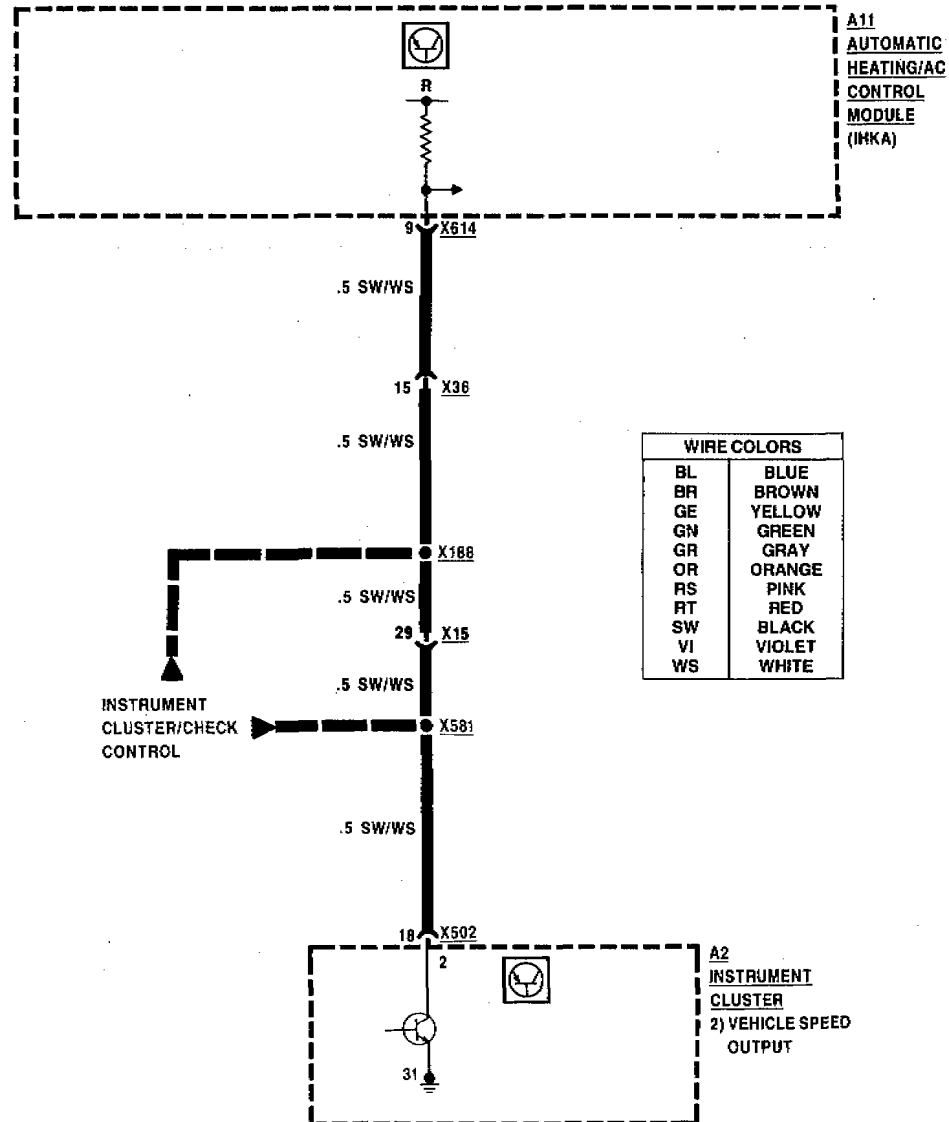
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# AUTOMATIC HEATING/AC CONTROL (IHKA)

## BLOWER CONTROLS

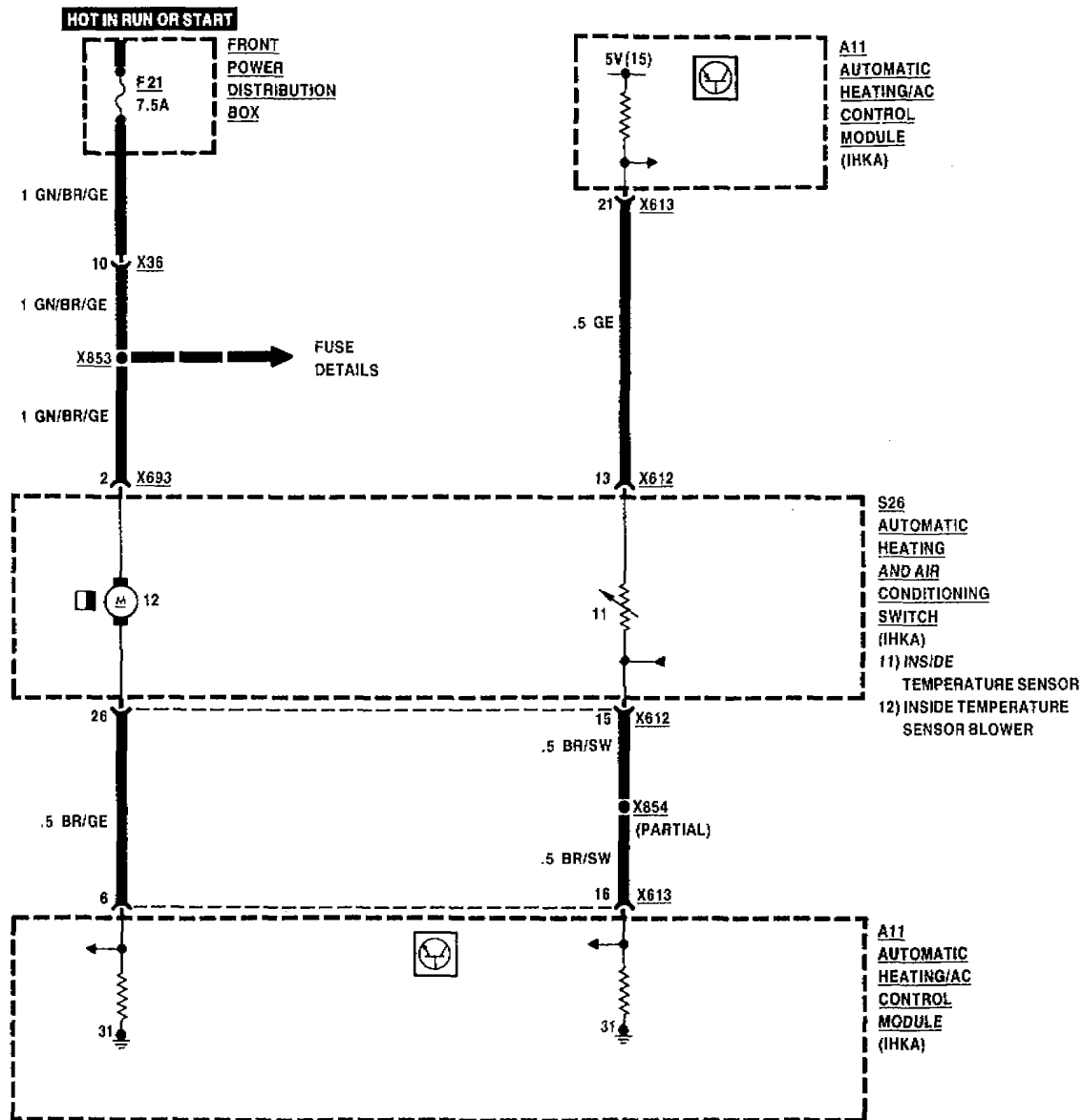


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# AUTOMATIC HEATING/AC CONTROL (IHKA)

## TEMPERATURE CONTROLS



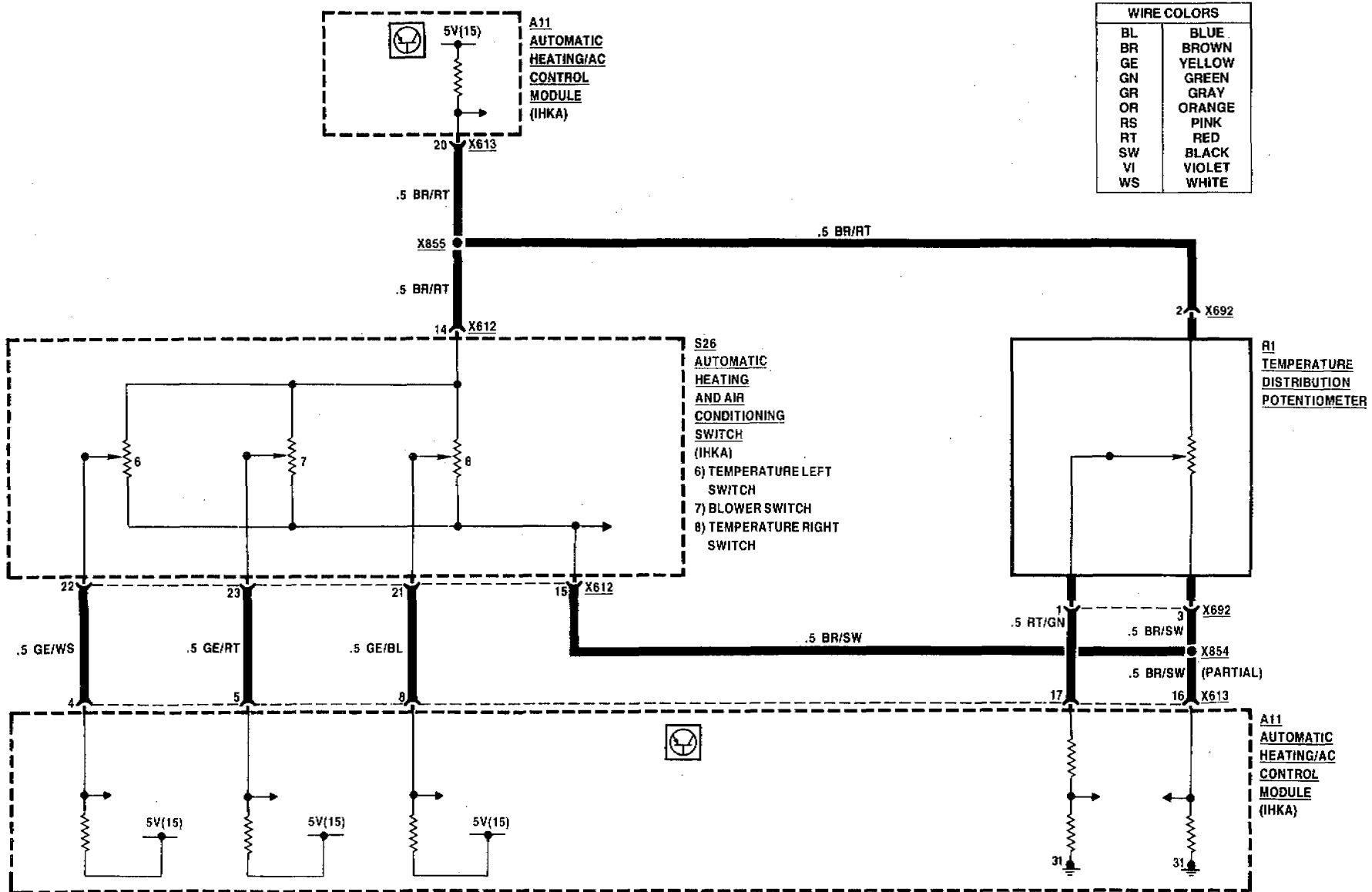
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





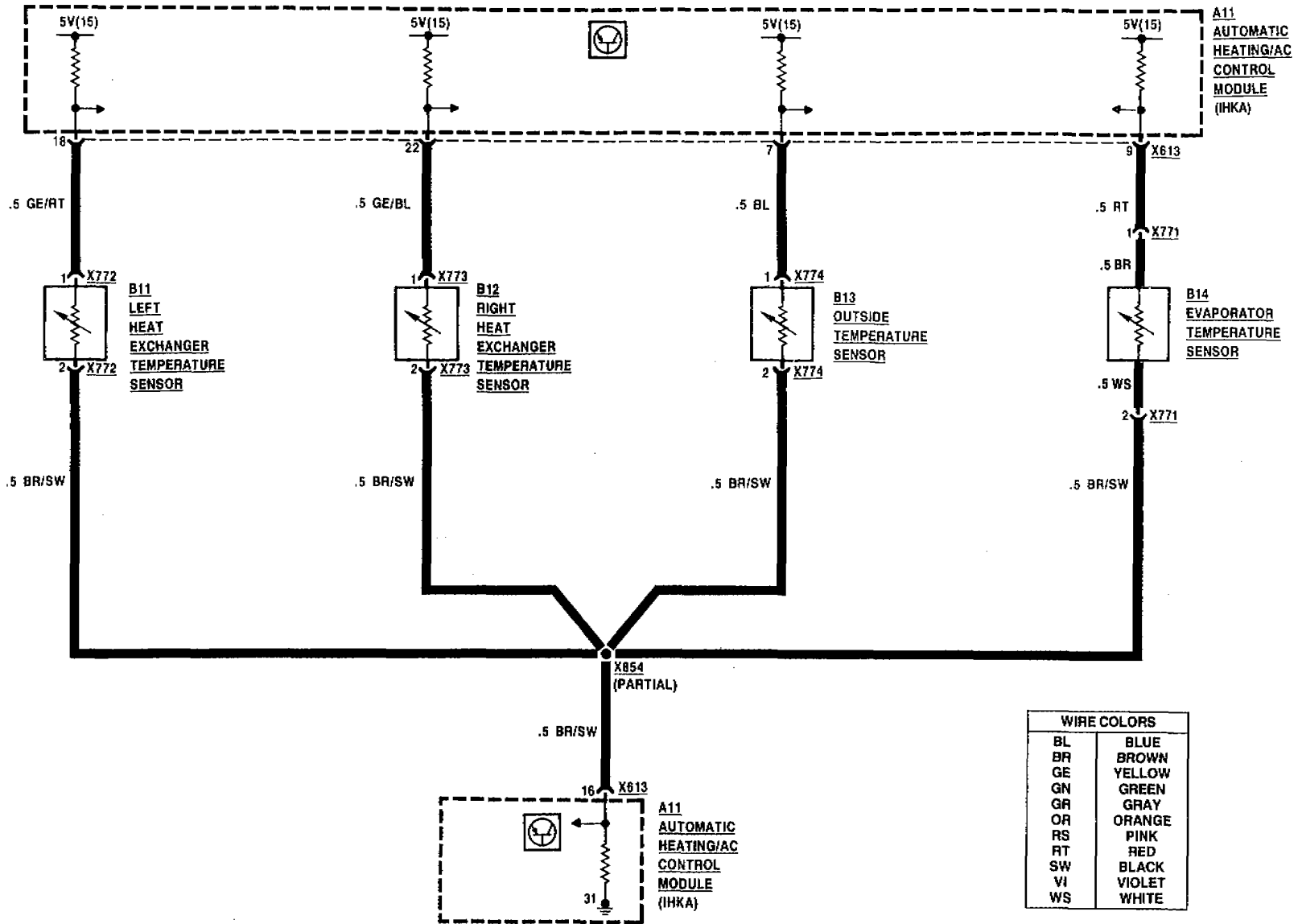
# AUTOMATIC HEATING/AC CONTROL (IHKA)

## TEMPERATURE CONTROLS





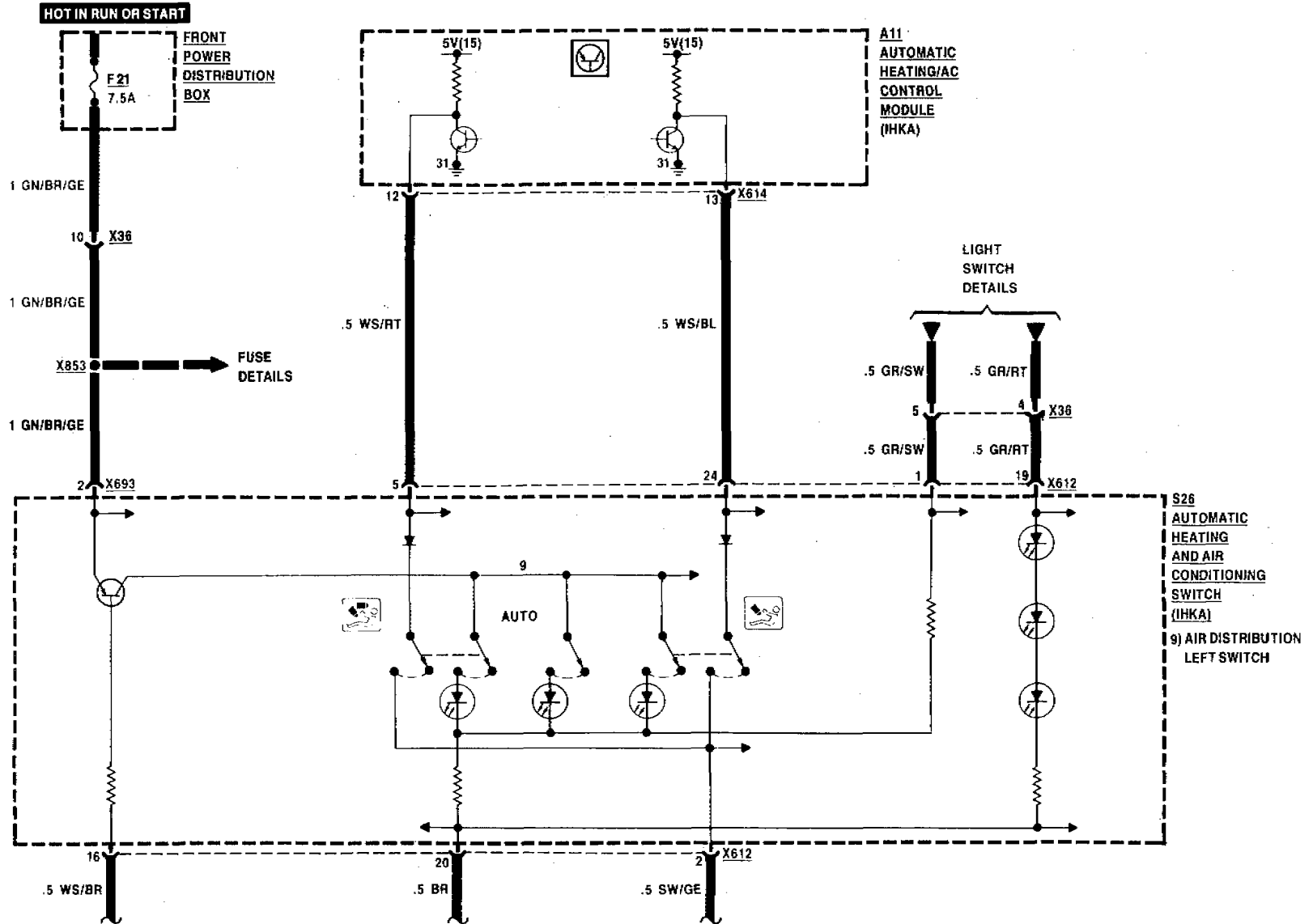
# AUTOMATIC CLIMATE CONTROL (IHKA) TEMPERATURE CONTROLS

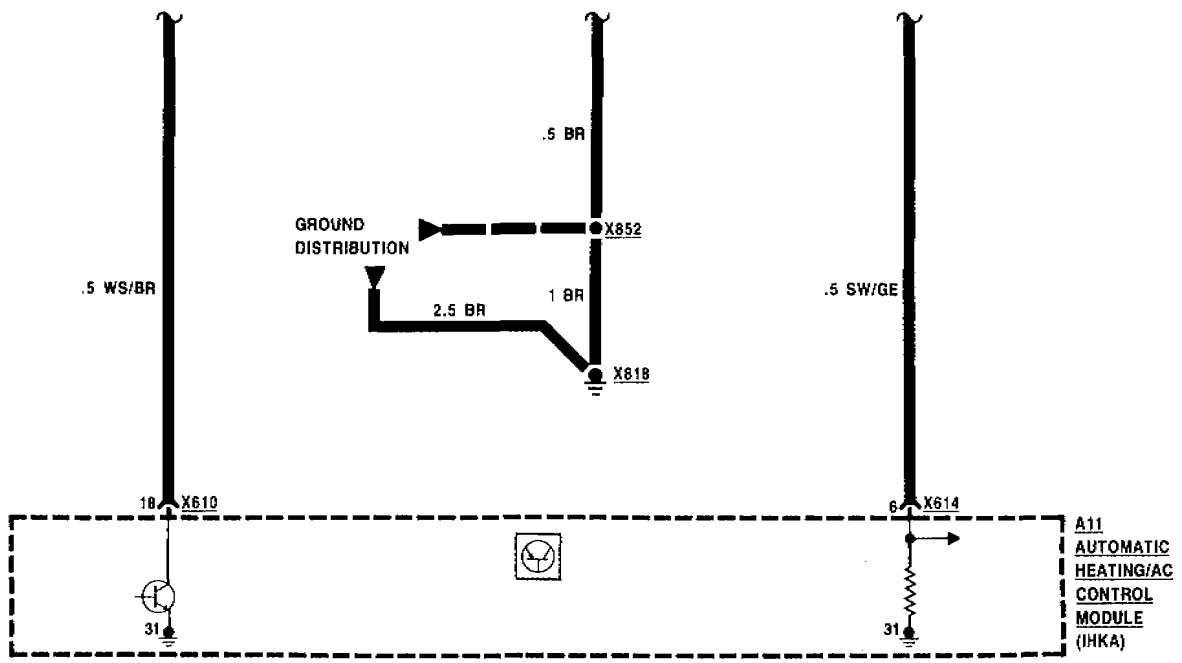




# AUTOMATIC HEATING/AC CONTROL (IHKA)

## AIR DELIVERY

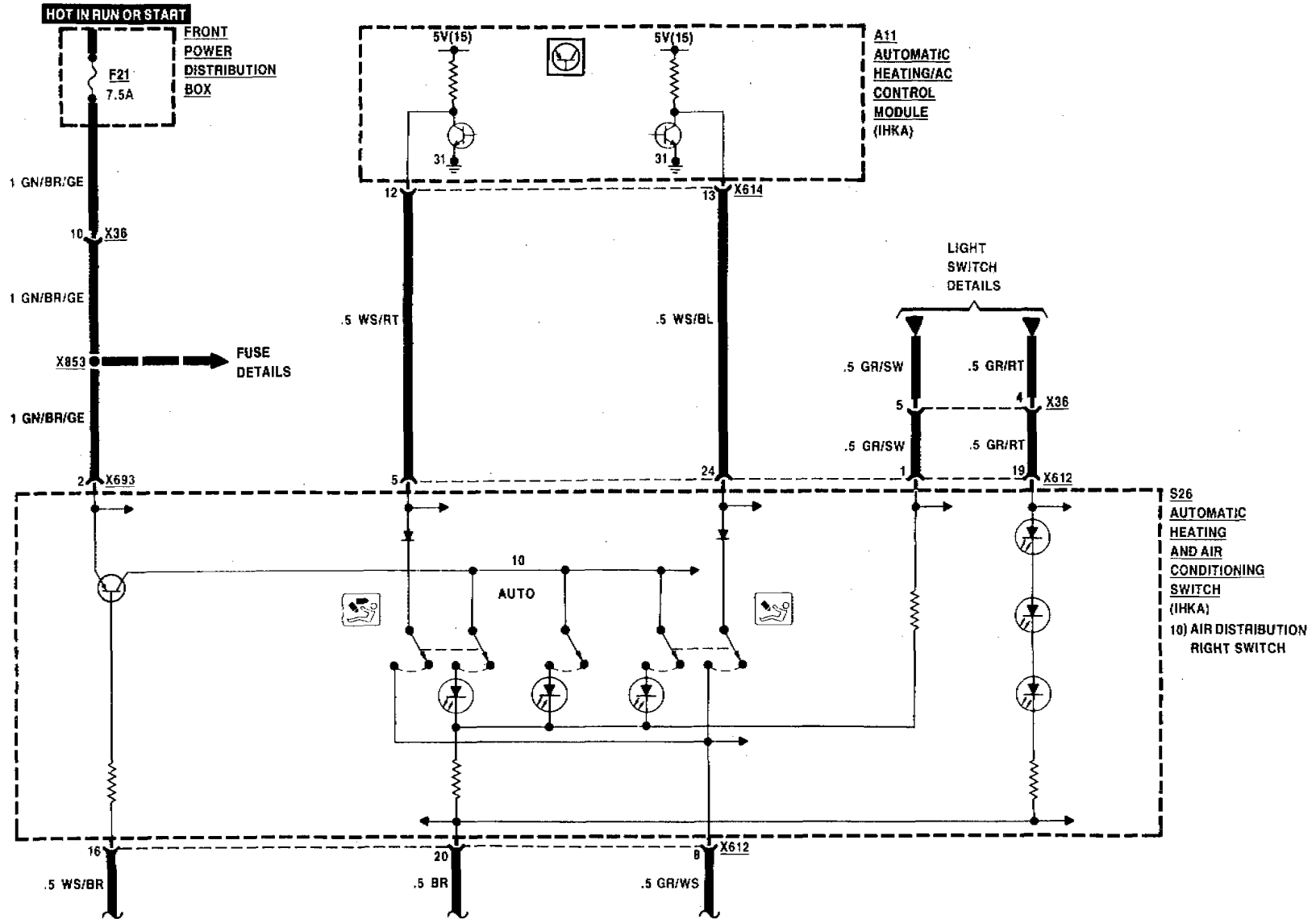


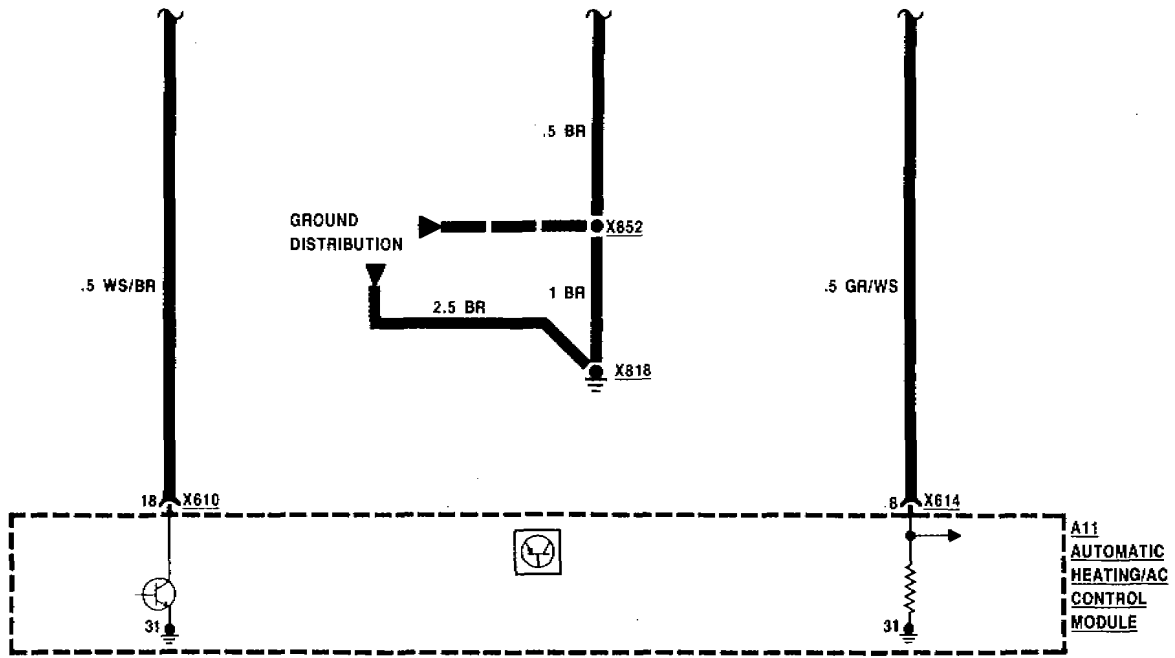


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

# AUTOMATIC HEATING/AC CONTROL (IHKA)

## AIR DELIVERY



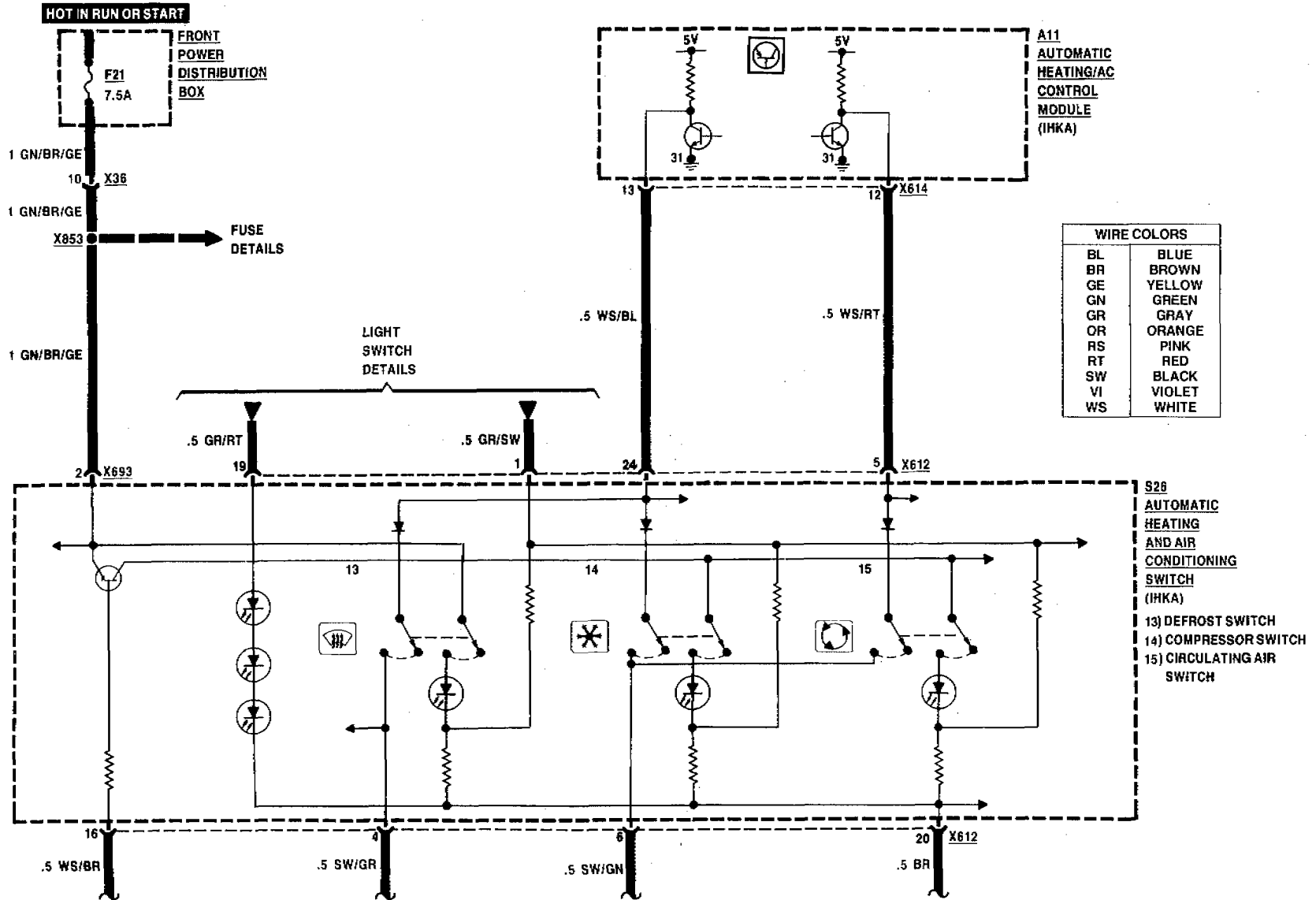


WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# AUTOMATIC HEATING/AC CONTROL (IHKA)

## AIR DELIVERY

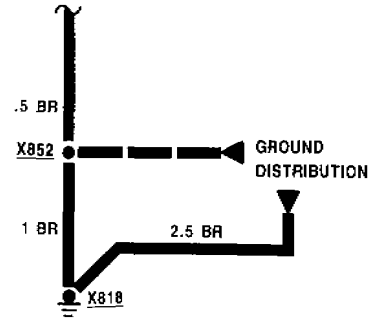
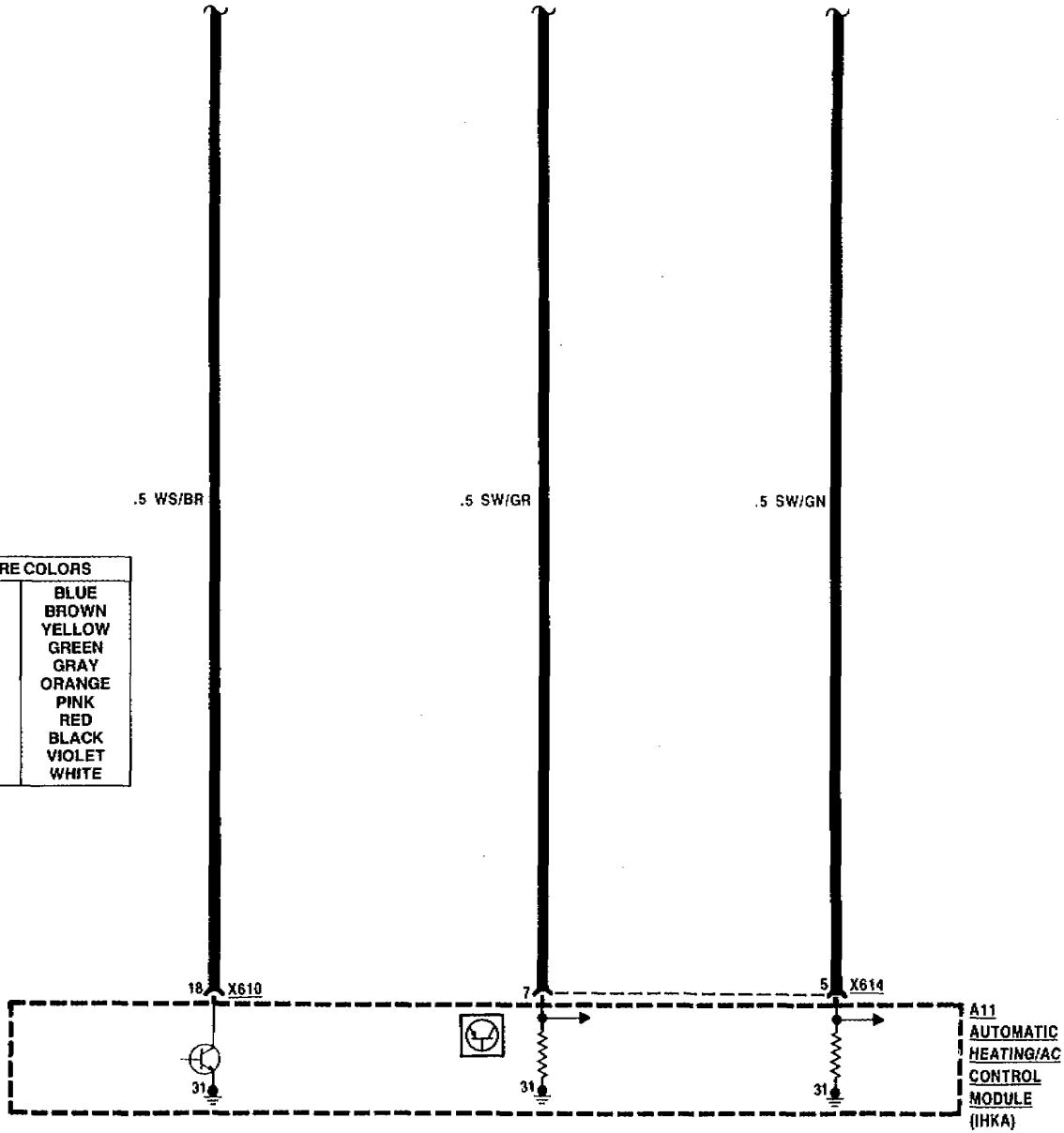


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6450-14

93/94

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

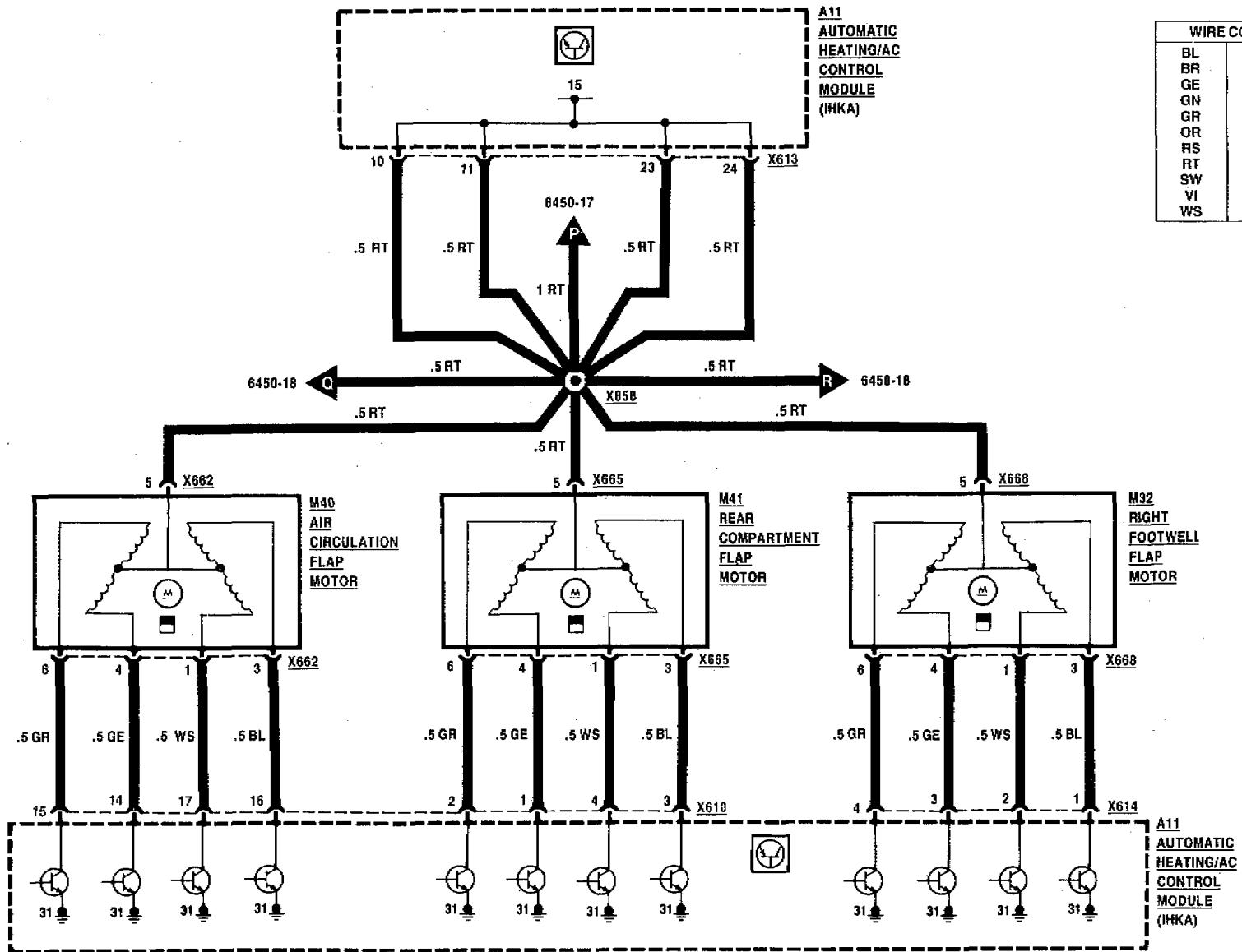






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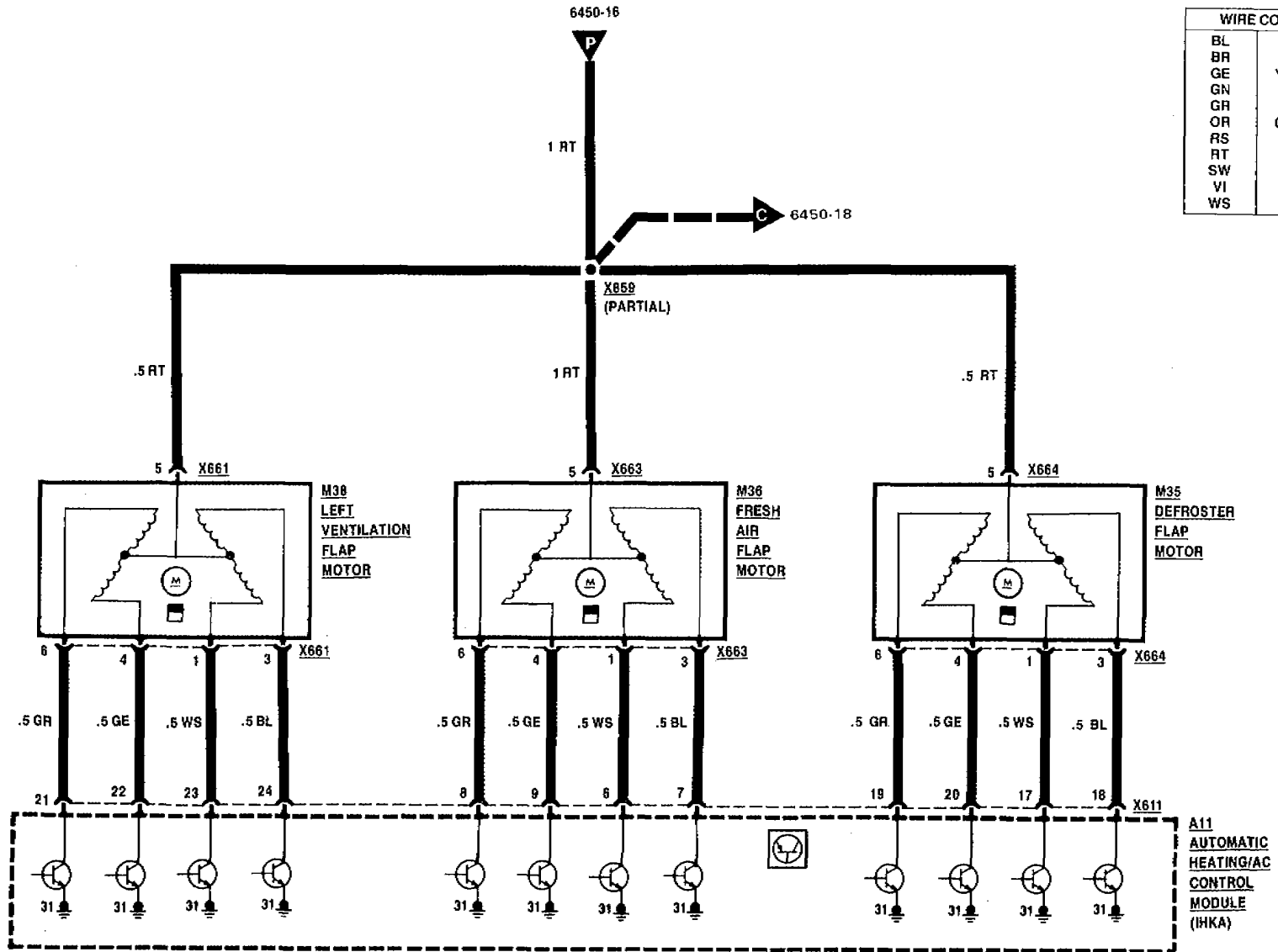
## AIR DELIVERY



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



# AUTOMATIC HEATING/AC CONTROL (IHKA) AIR DELIVERY

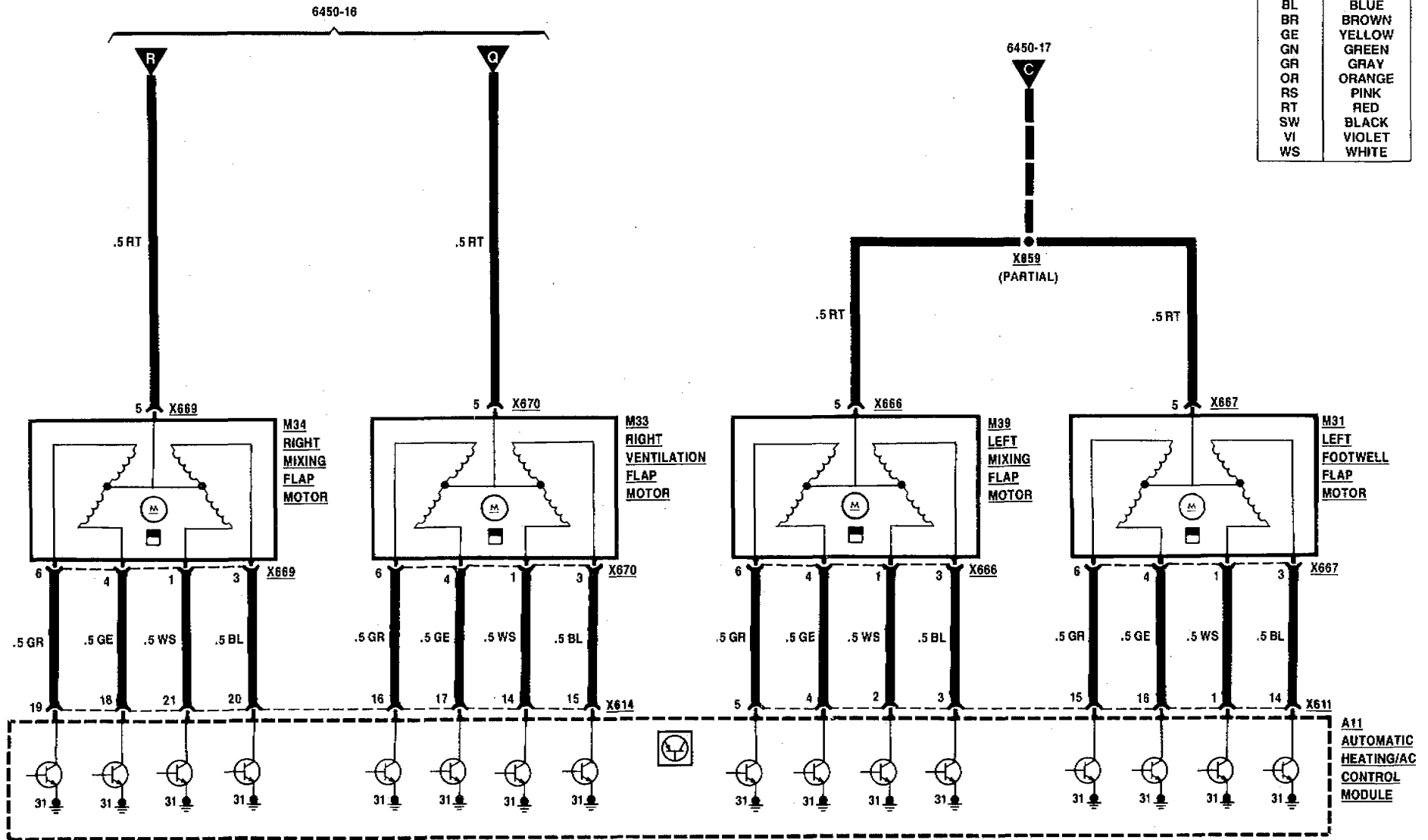




# AUTOMATIC HEATING/AC CONTROL (IHKA)

## AIR DELIVERY

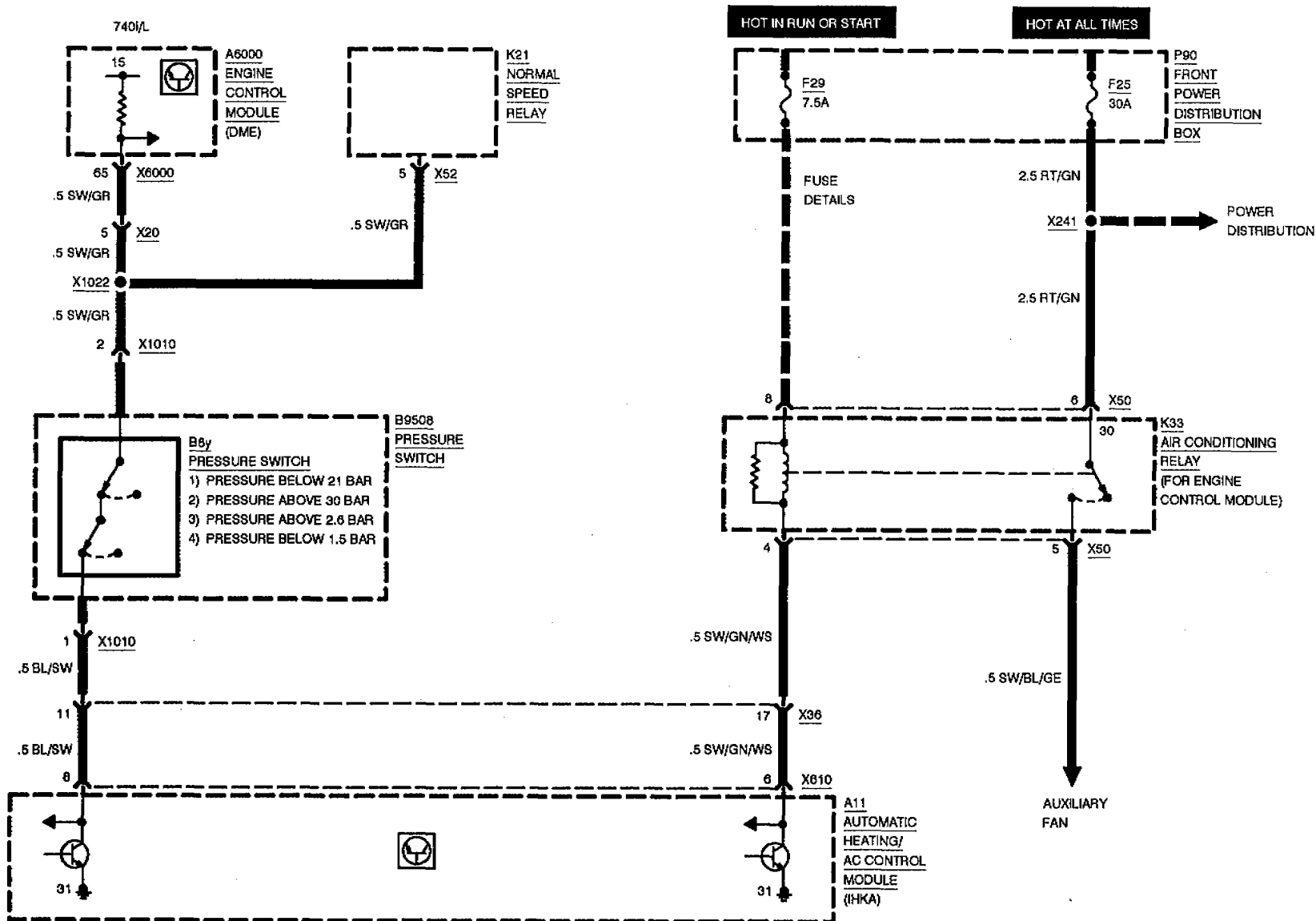
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# AUTOMATIC HEATING/AC CONTROL (IHKA)

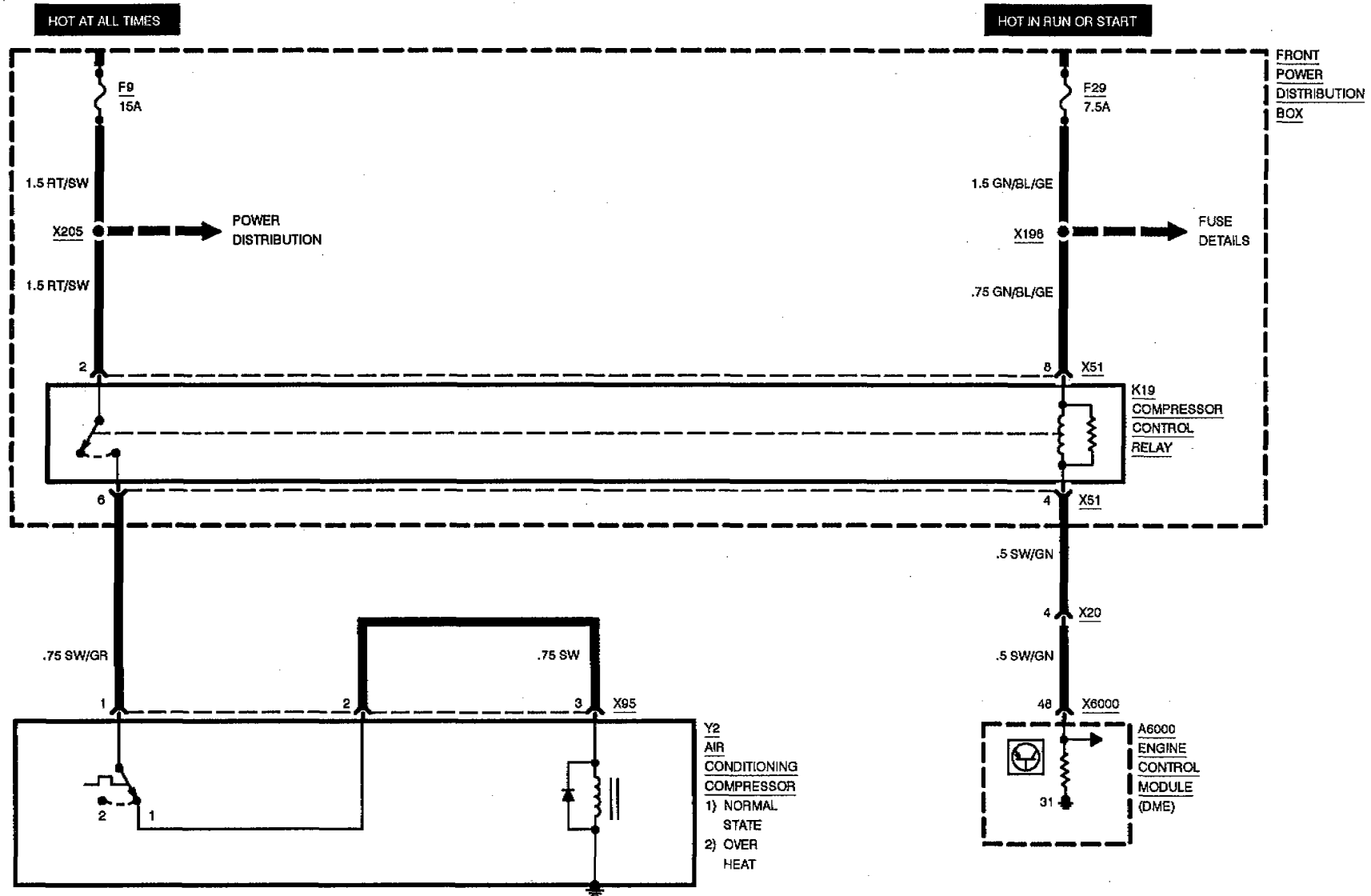
## COMPRESSOR CONTROL





# AUTOMATIC CLIMATE CONTROL (IHKA) COMPRESSOR CONTROLS

740i/L



12/93

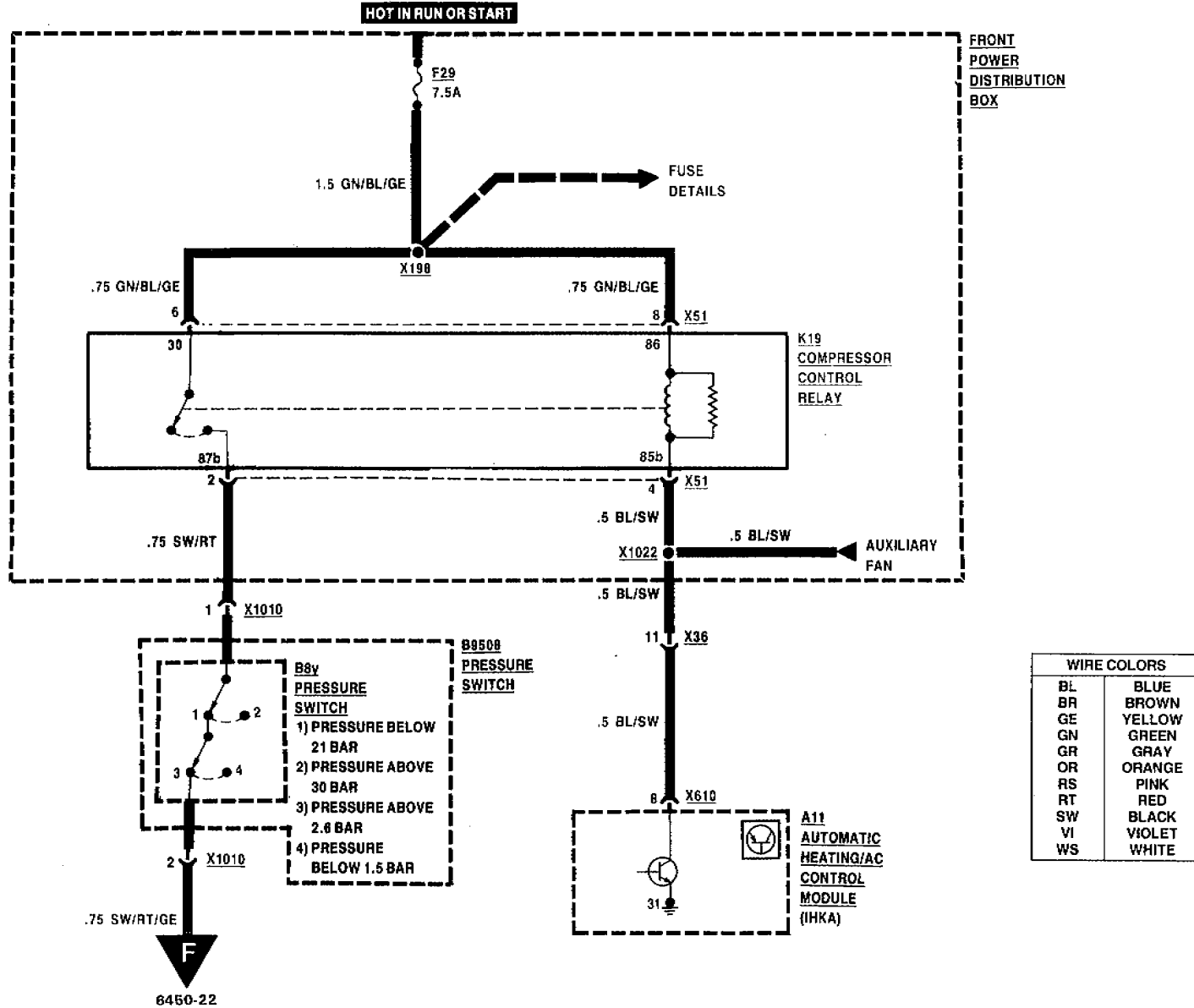
6450-20

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# AUTOMATIC HEATING/AC CONTROL (IHKA) COMPRESSOR CONTROL

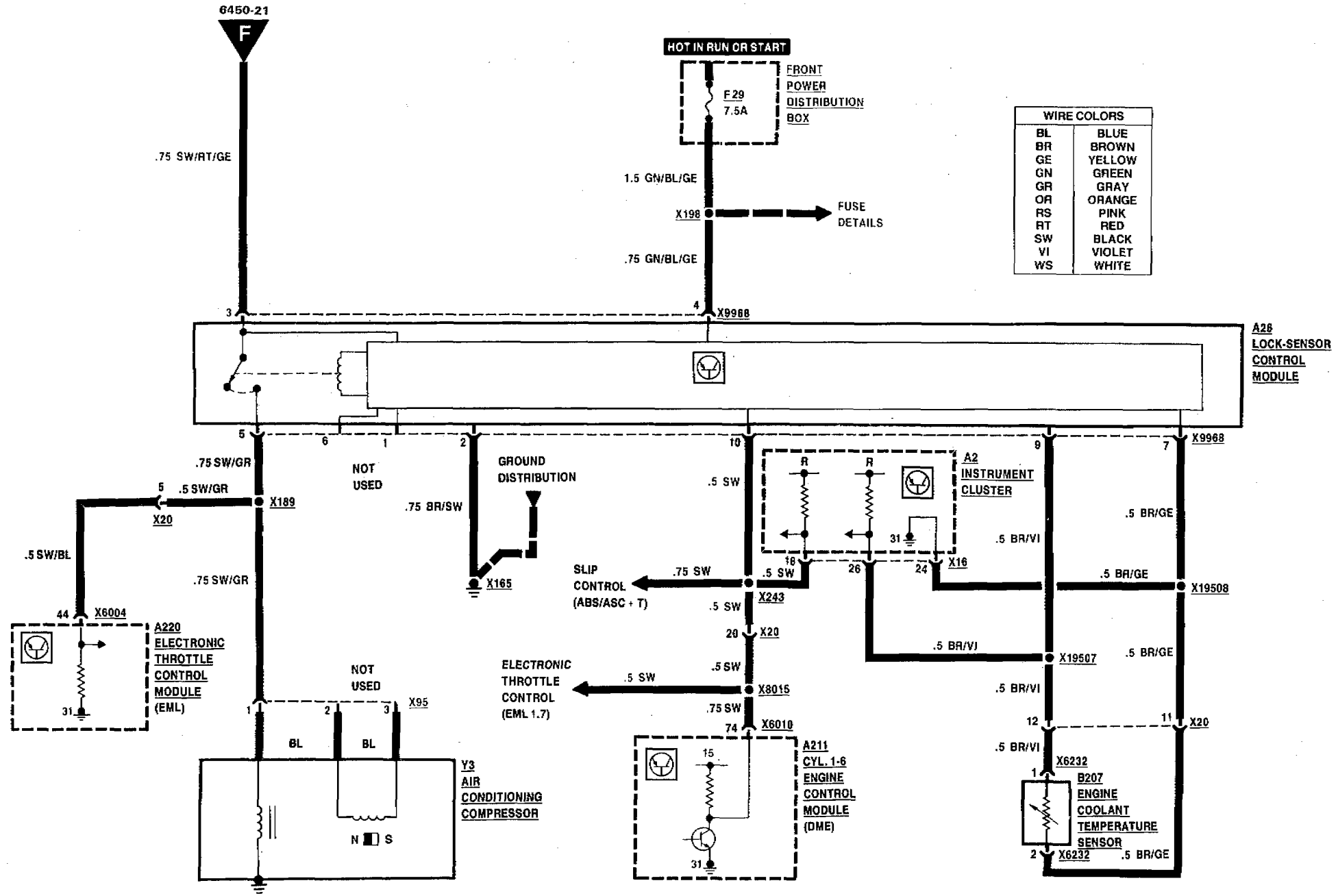
750iL



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6450-21

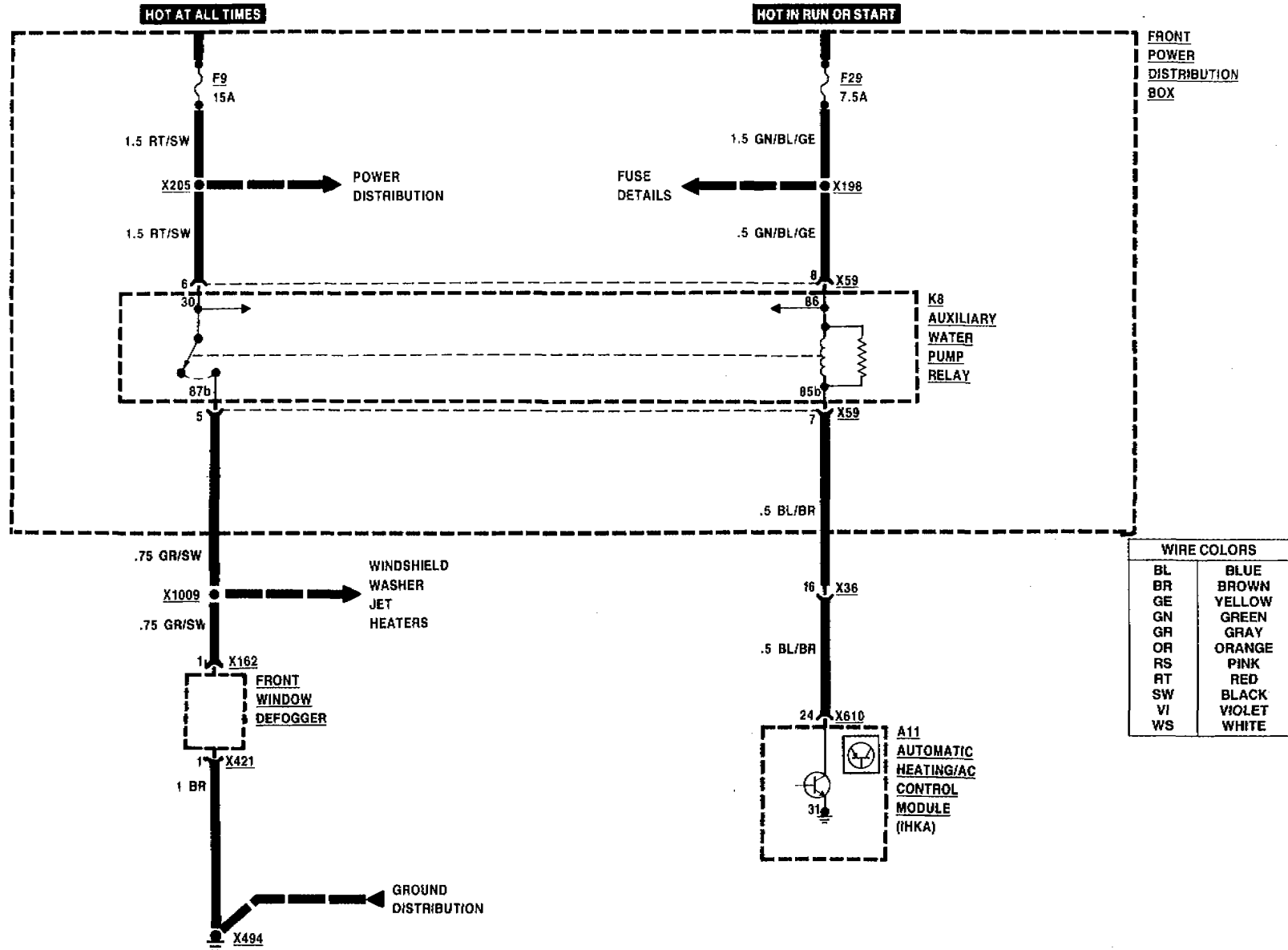
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# AUTOMATIC HEATING/AC CONTROL (IHKA)

## FRONT WINDOW DEFOGGER



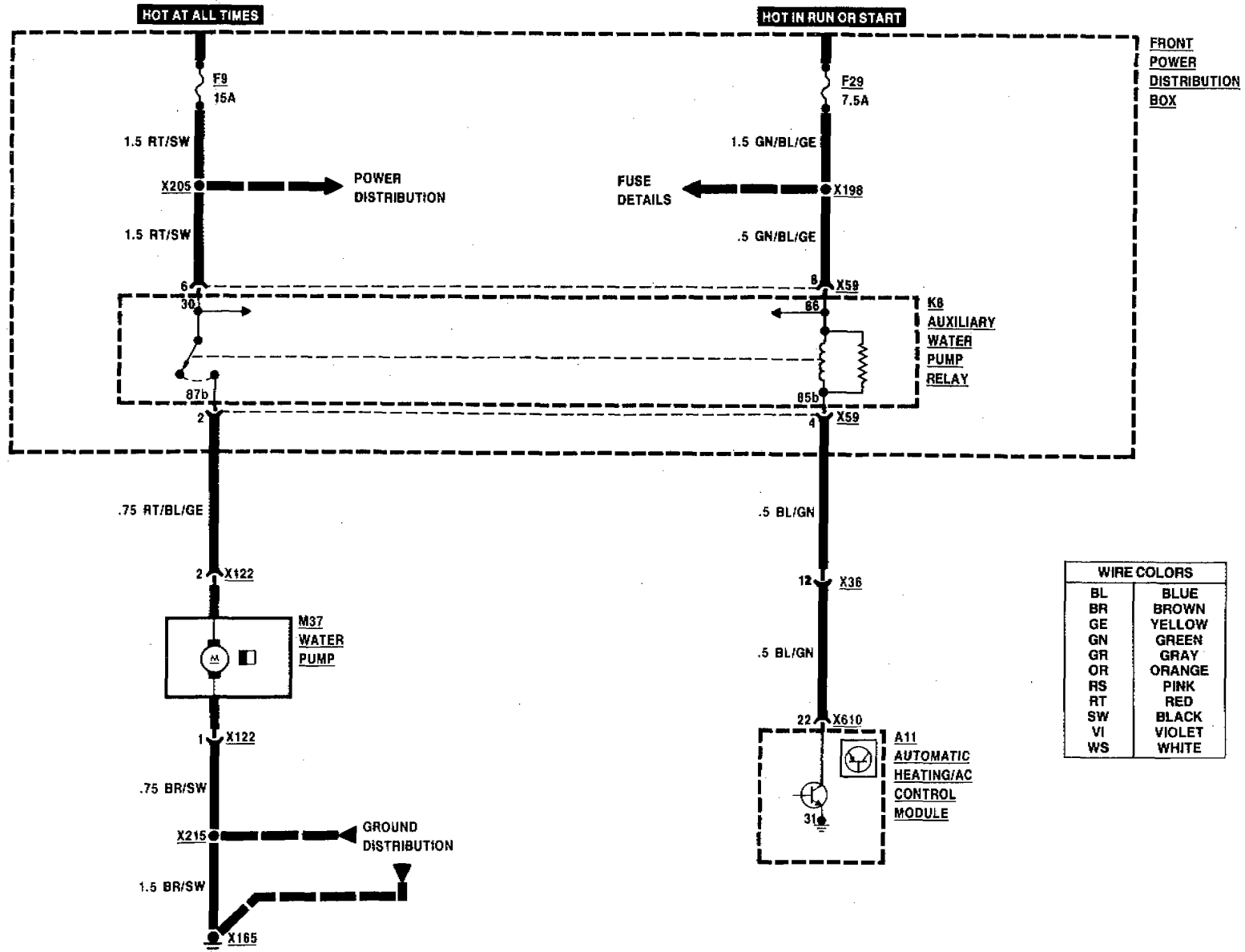
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GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





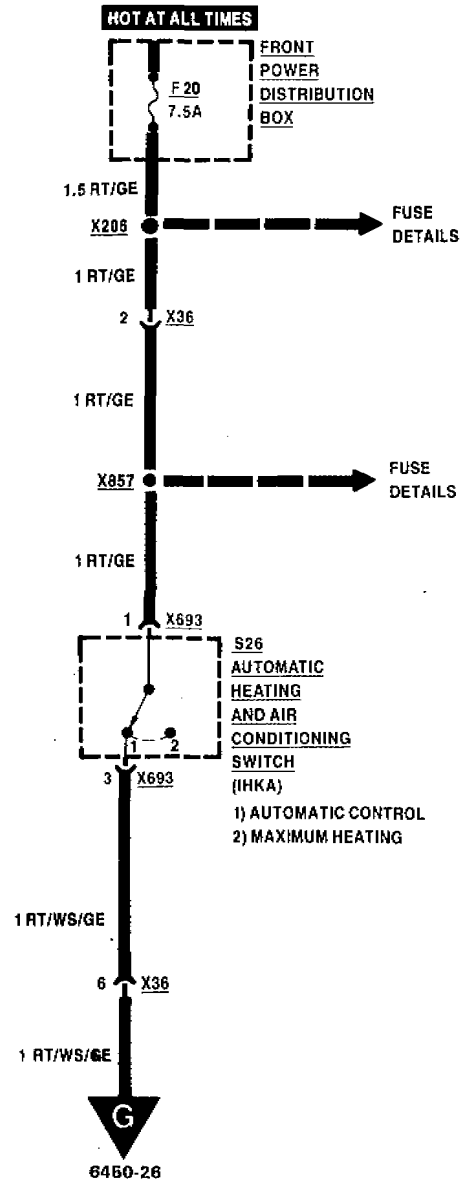
# AUTOMATIC HEATING/AC CONTROL (IHKA)

## AUXILIARY WATER PUMP



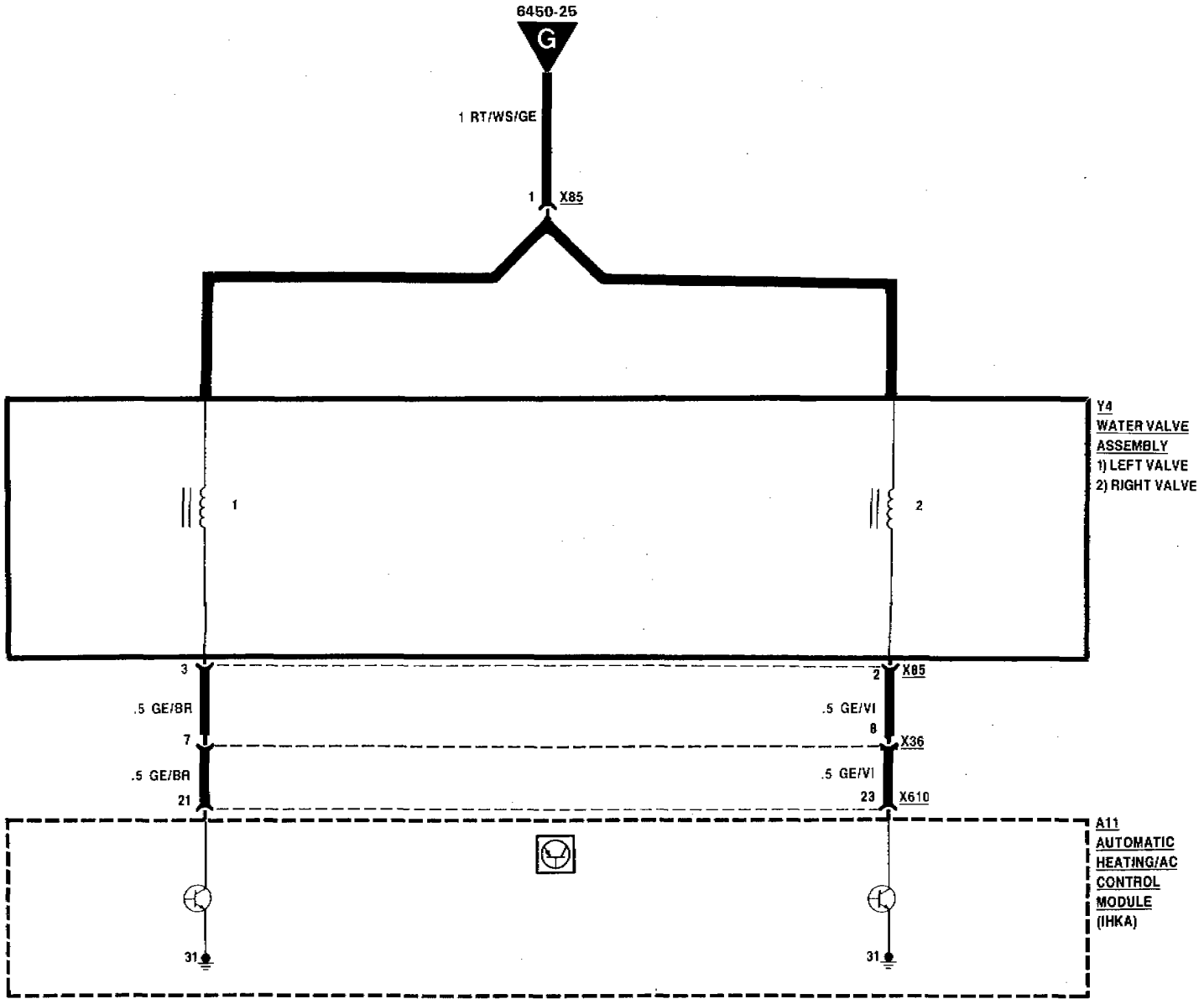


# AUTOMATIC HEATING/AC CONTROL (IHKA) WATER VALVES



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

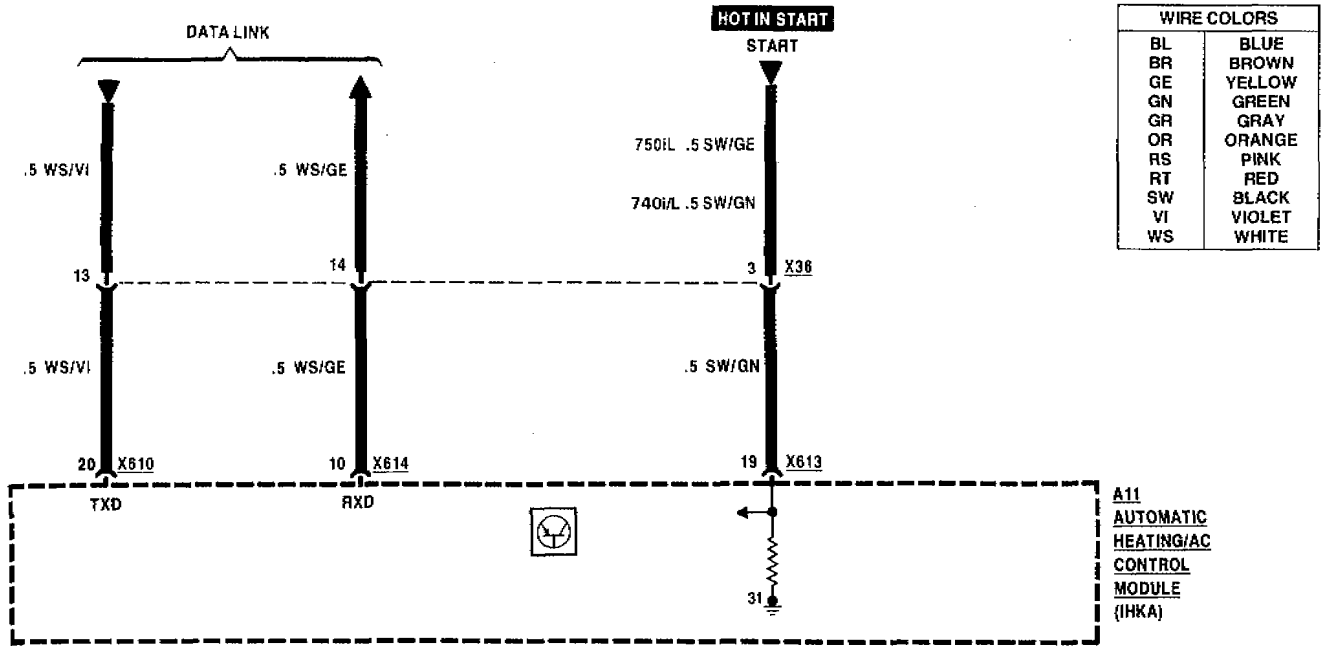
WIRE COLORS	
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GE	YELLOW
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OR	ORANGE
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RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



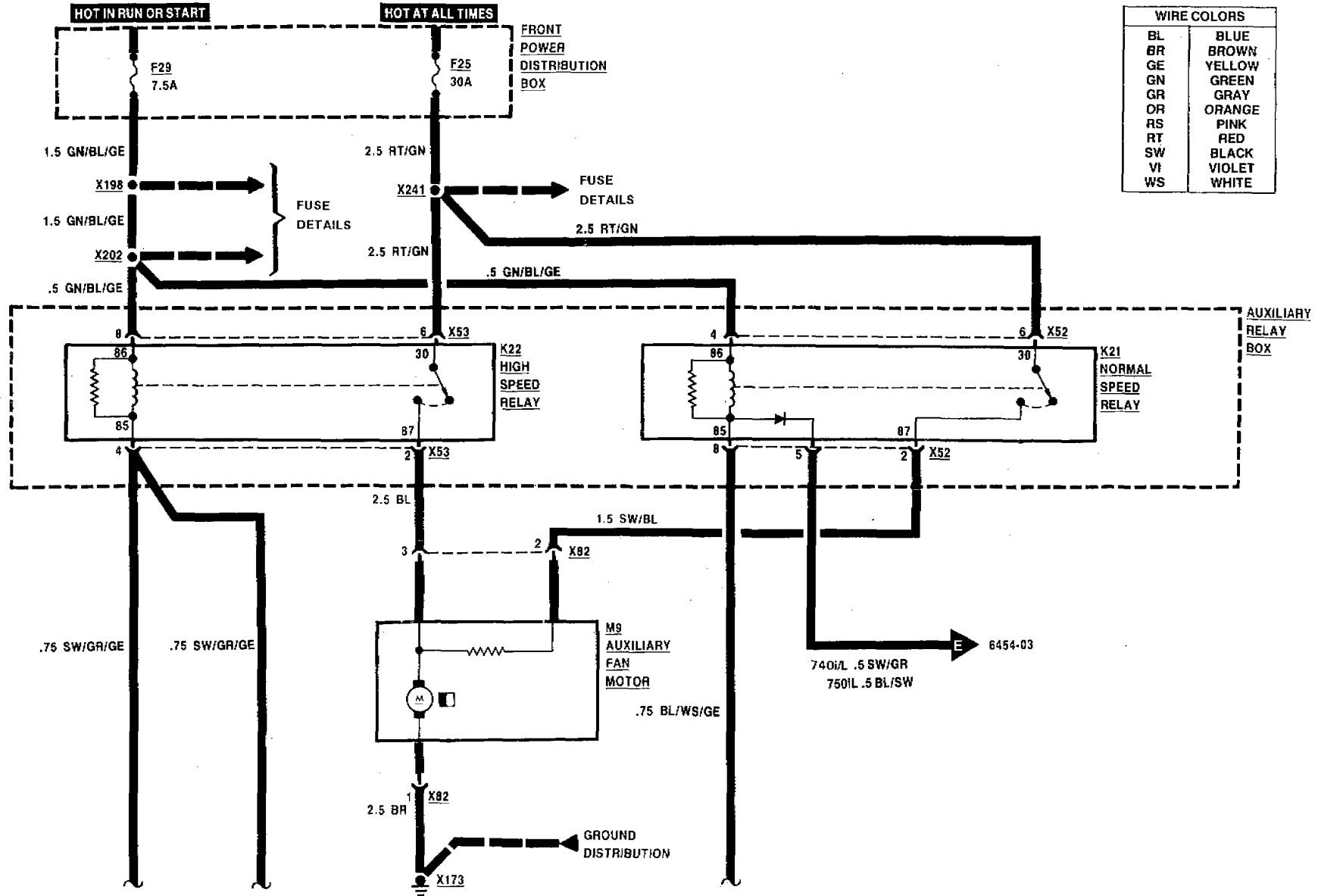


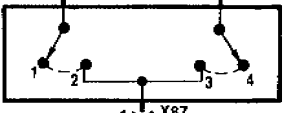
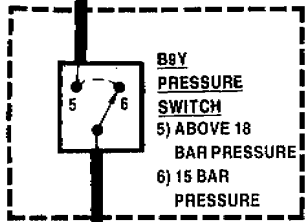
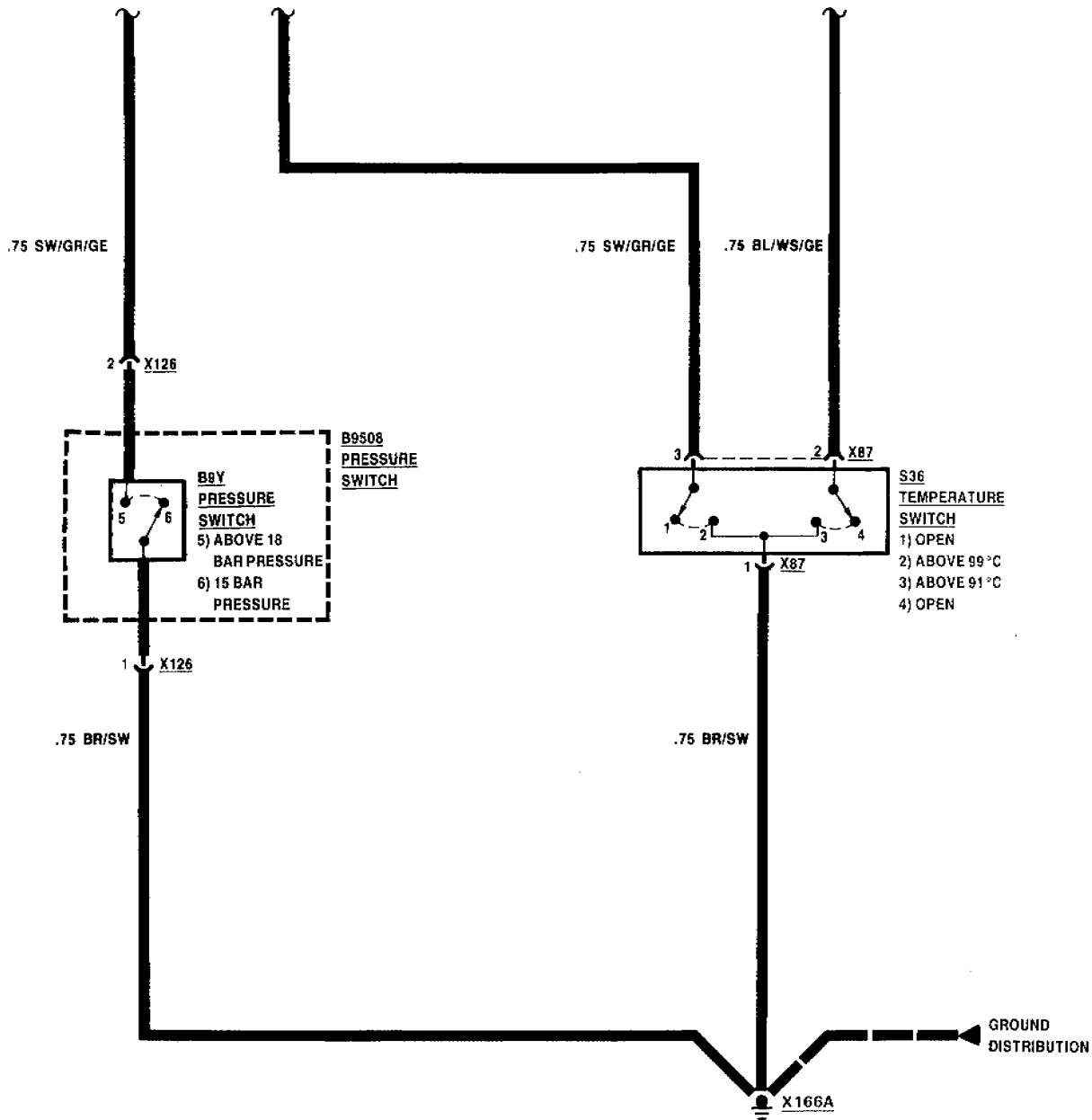
# AUTOMATIC HEATING/AC CONTROL (IHKA)

## DATA LINK AND STARTER INPUT



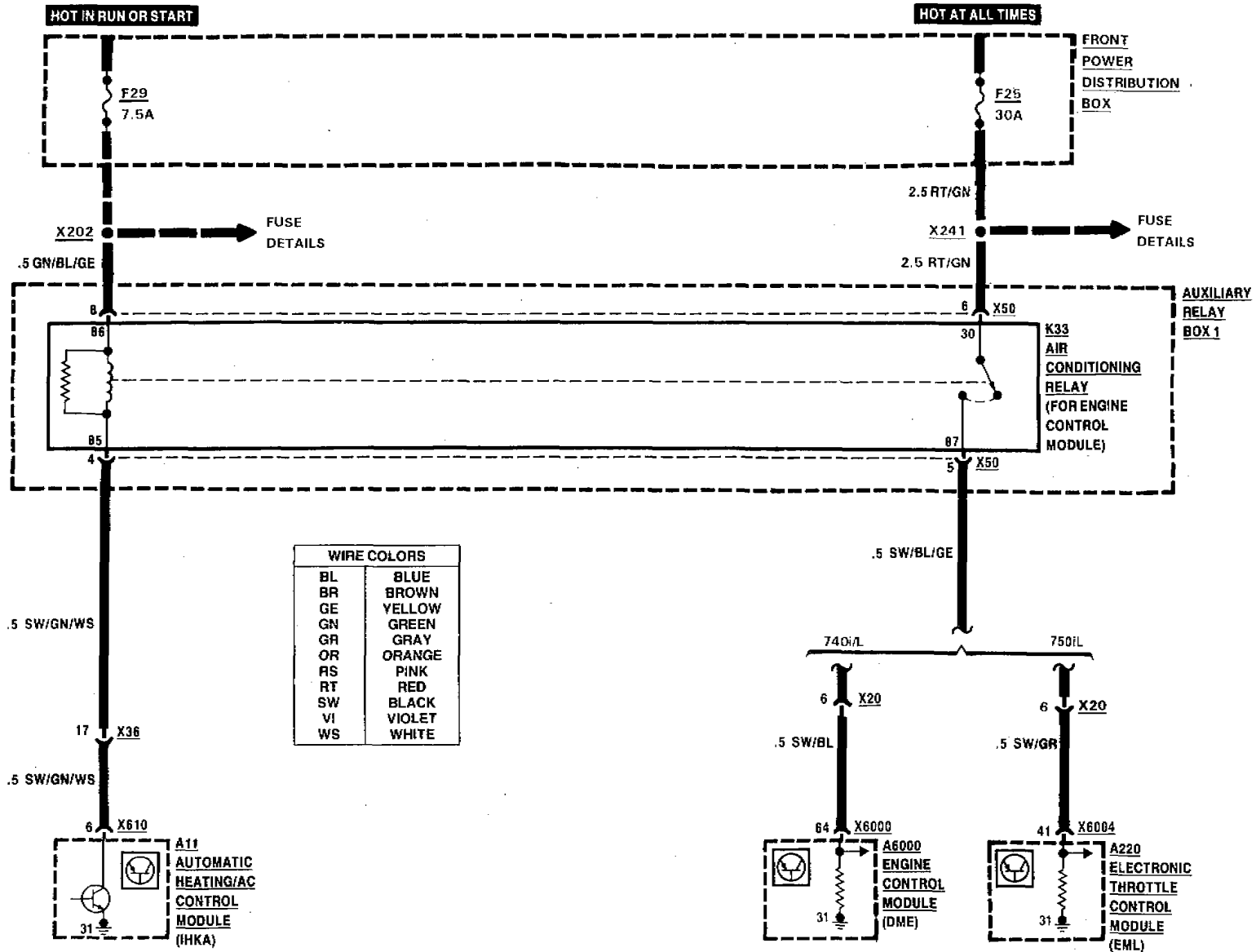
# AUXILIARY FAN





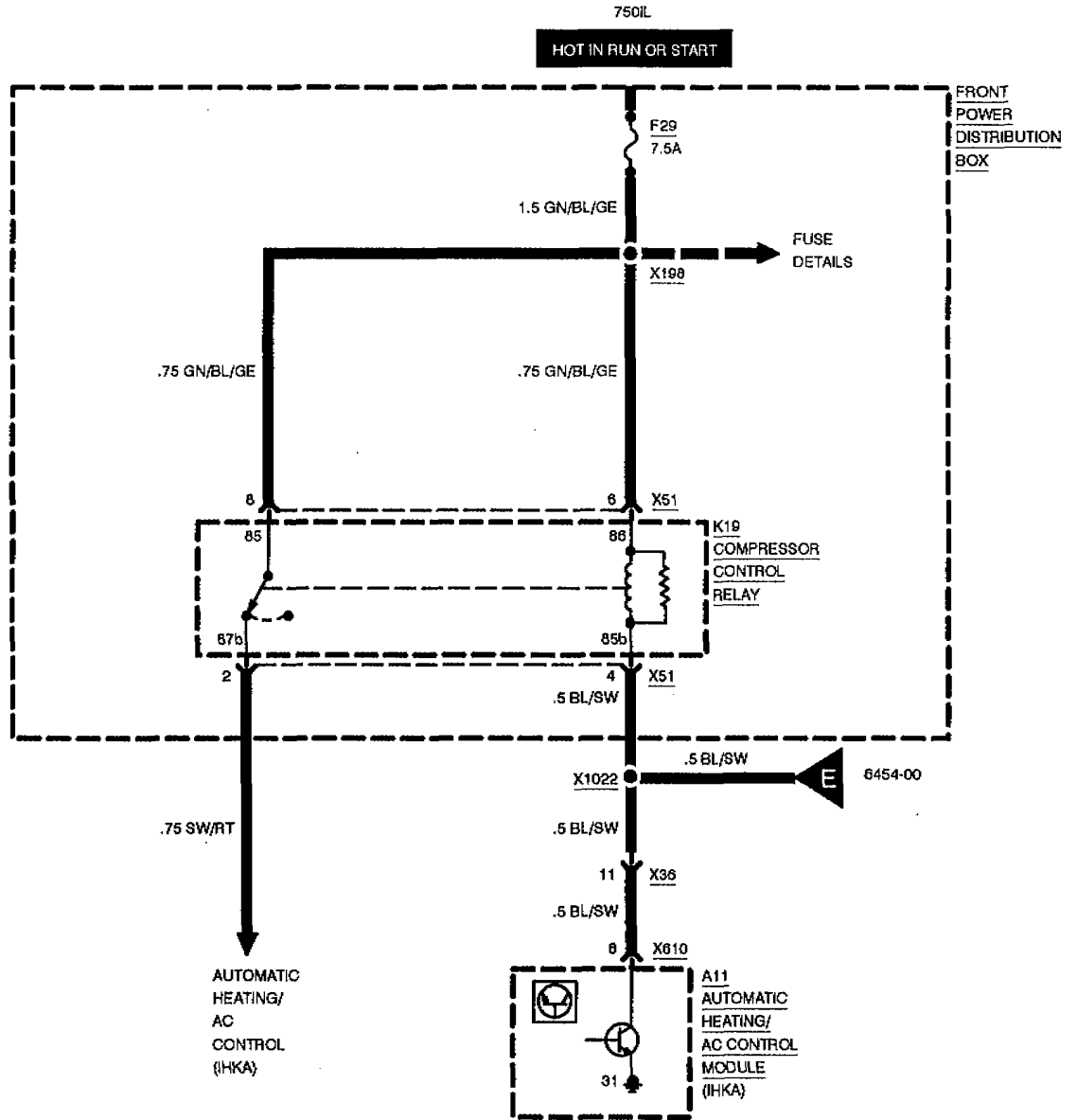
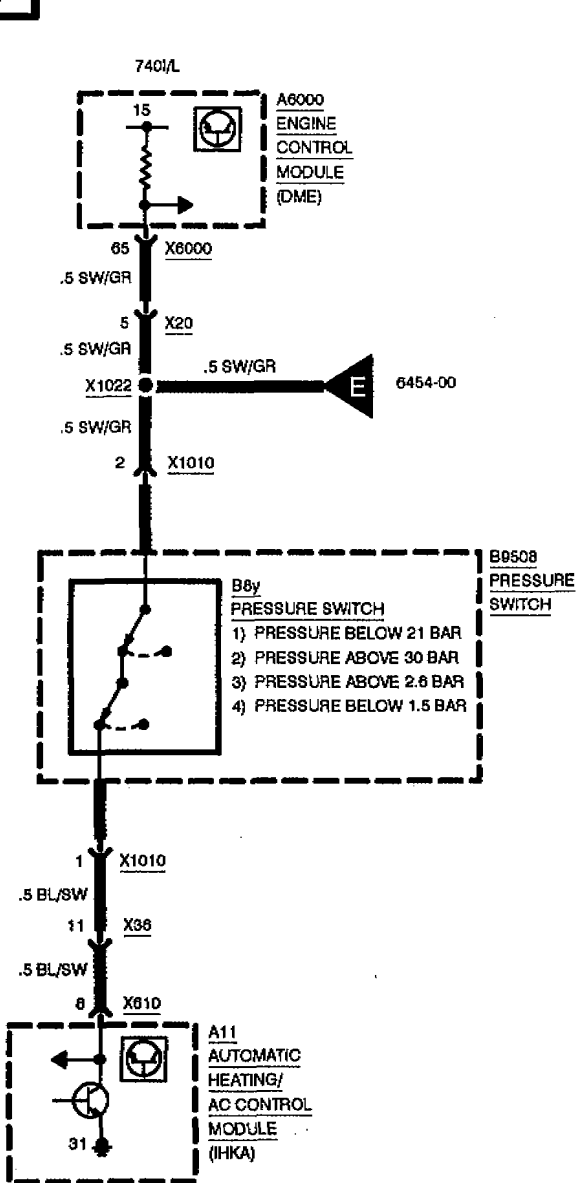
WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE

# AUXILIARY FAN





# AUXILIARY FAN

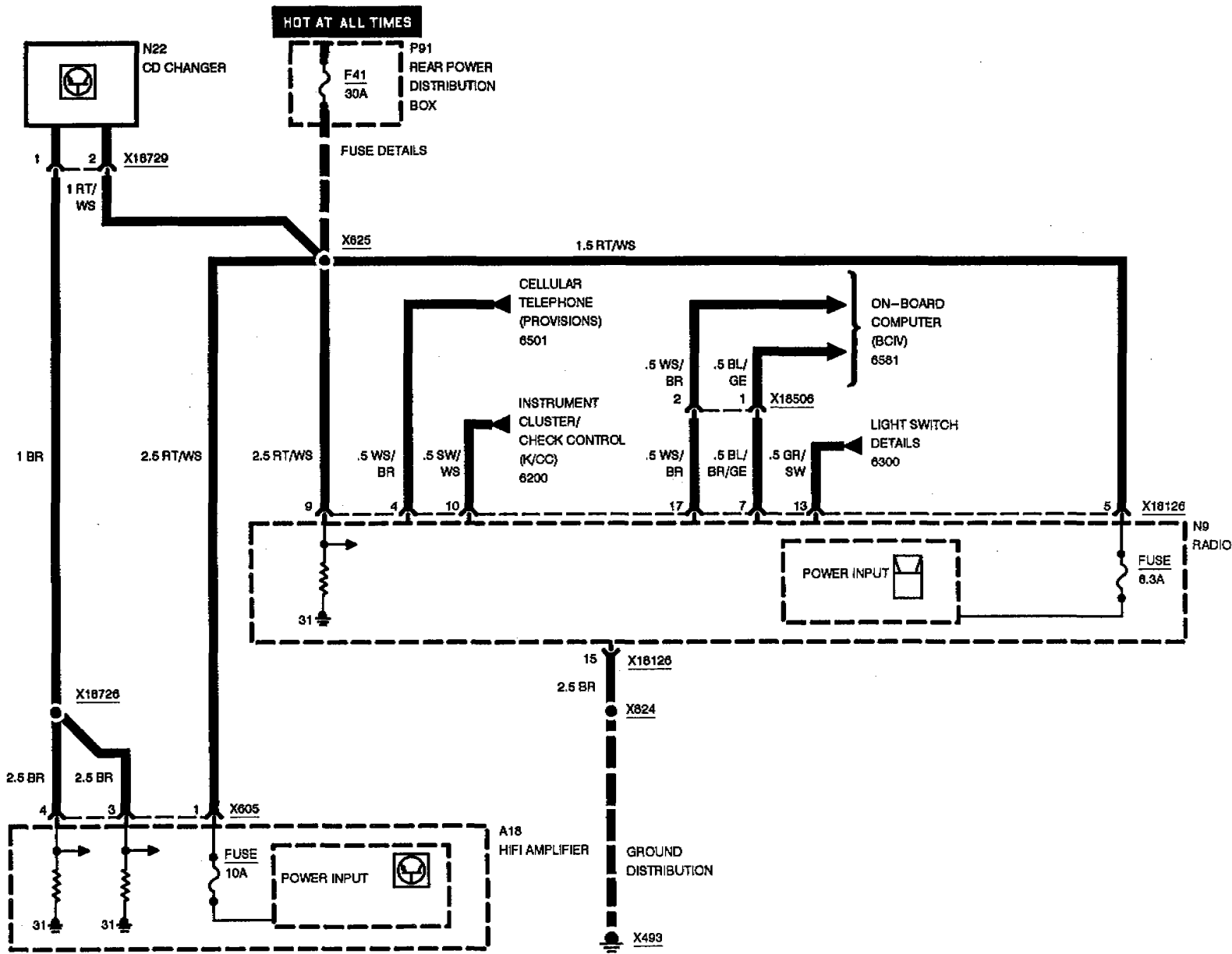






# RADIO/HIFI

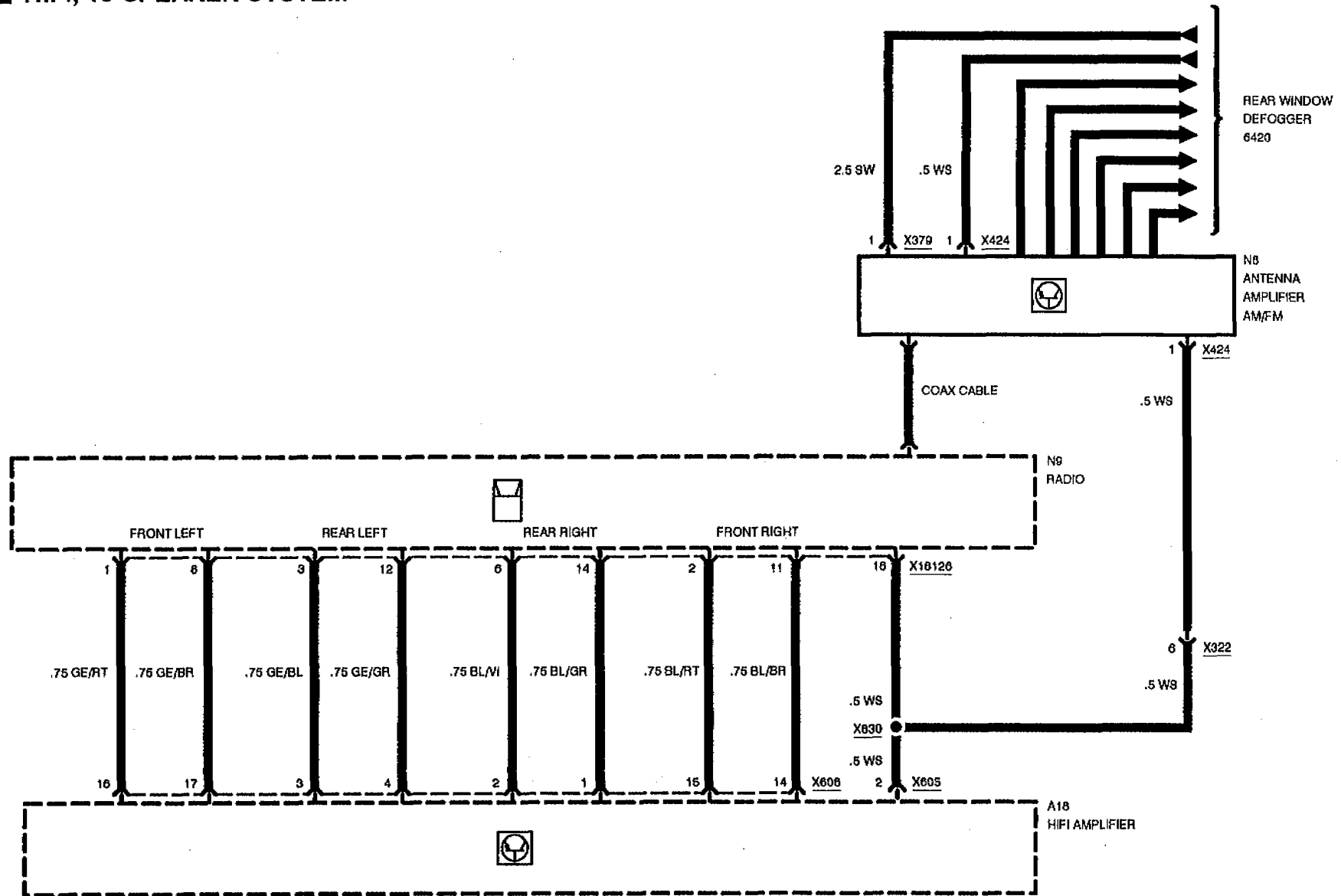
## HIFI, 10-SPEAKER SYSTEM





# RADIO/HIFI

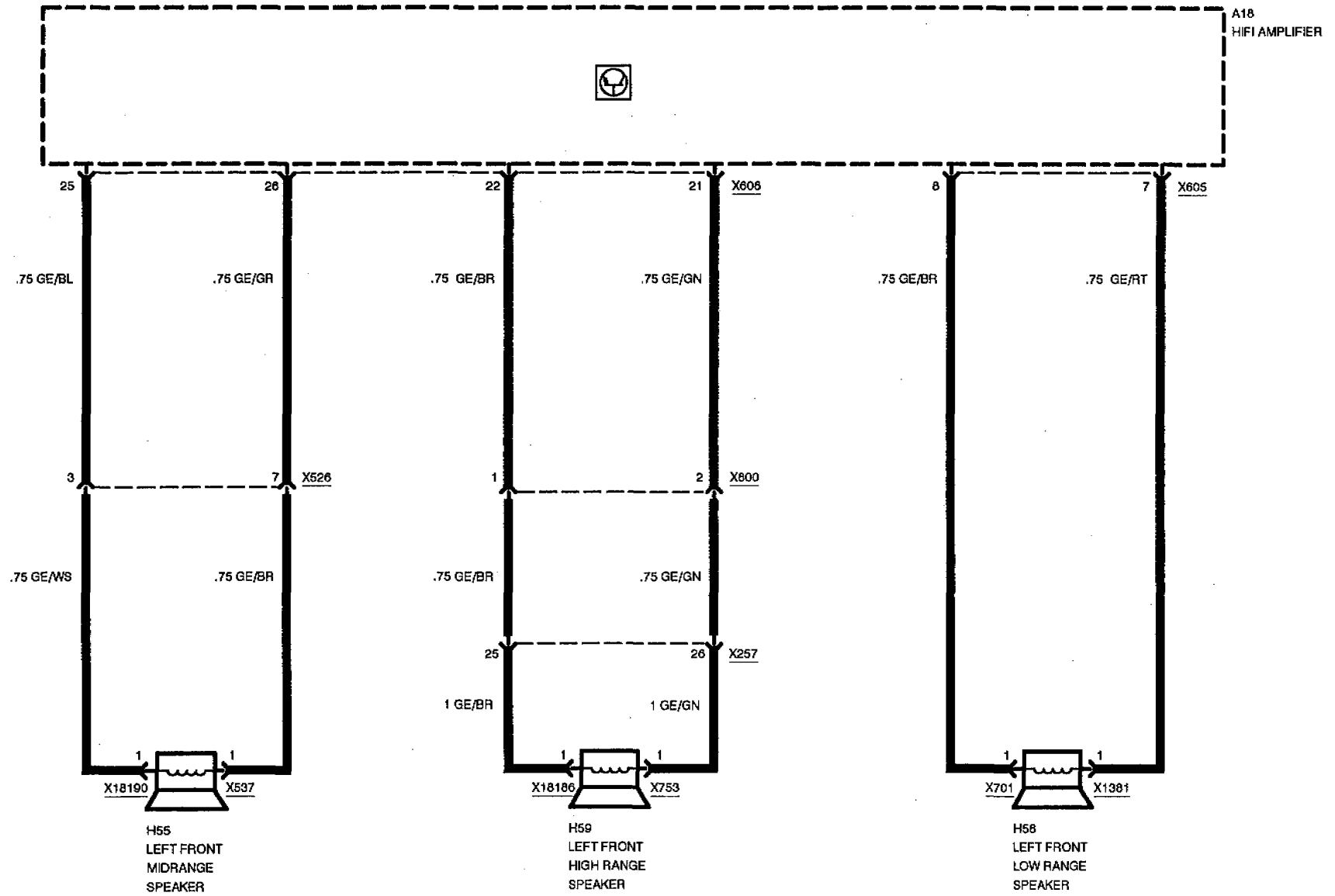
## HIFI, 10-SPEAKER SYSTEM





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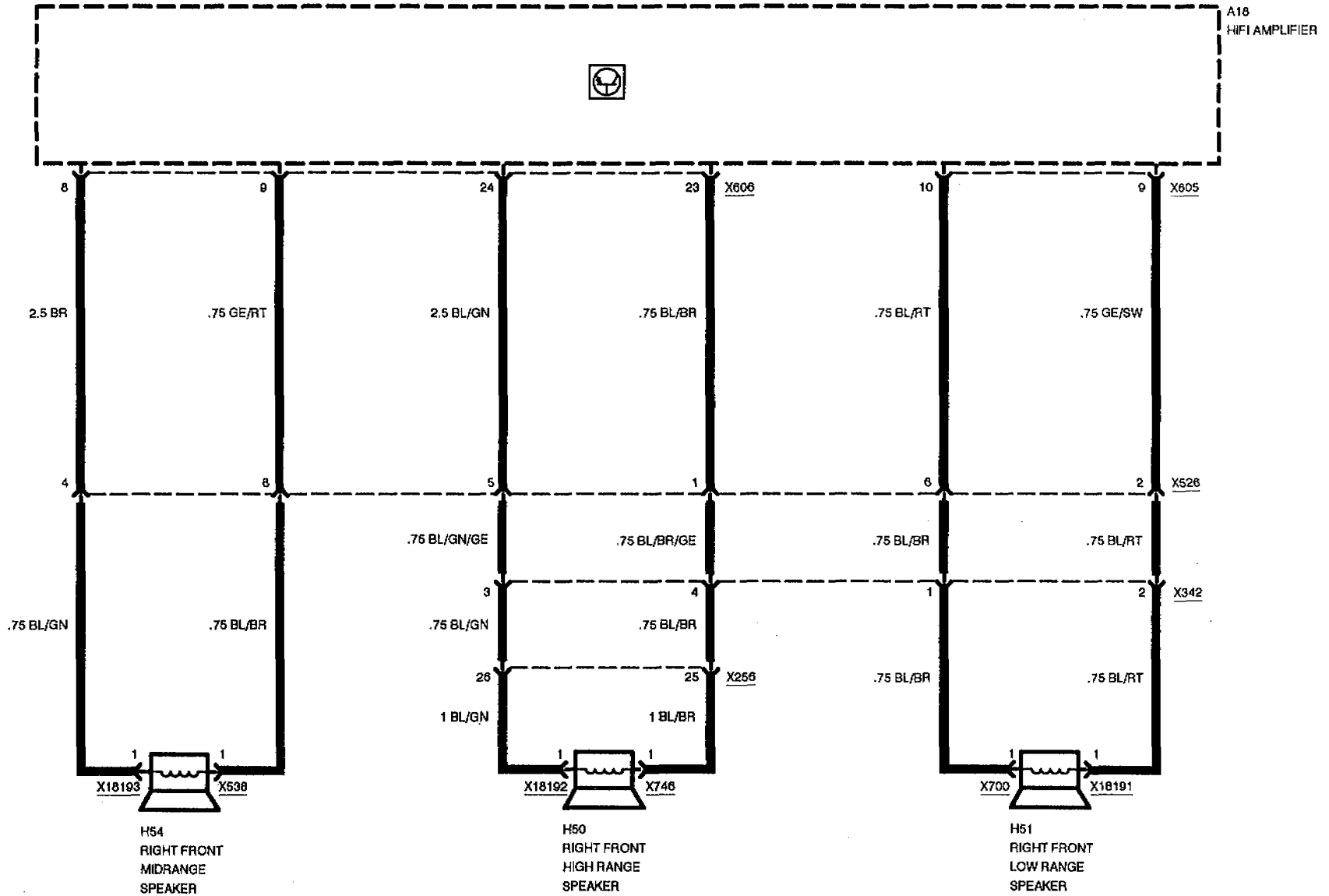
## HIFI, 10-SPEAKER SYSTEM





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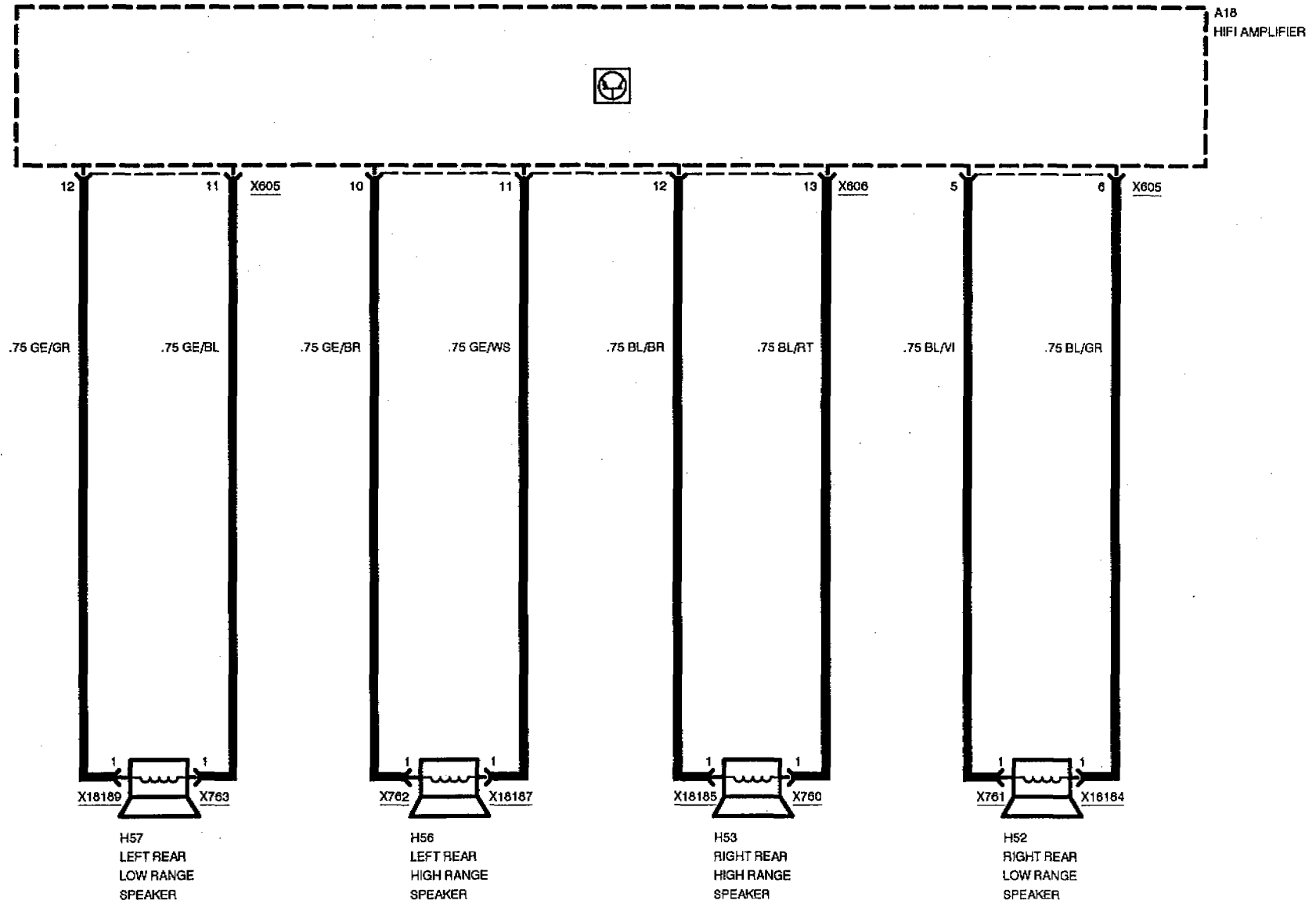
## HIFI, 10-SPEAKER SYSTEM





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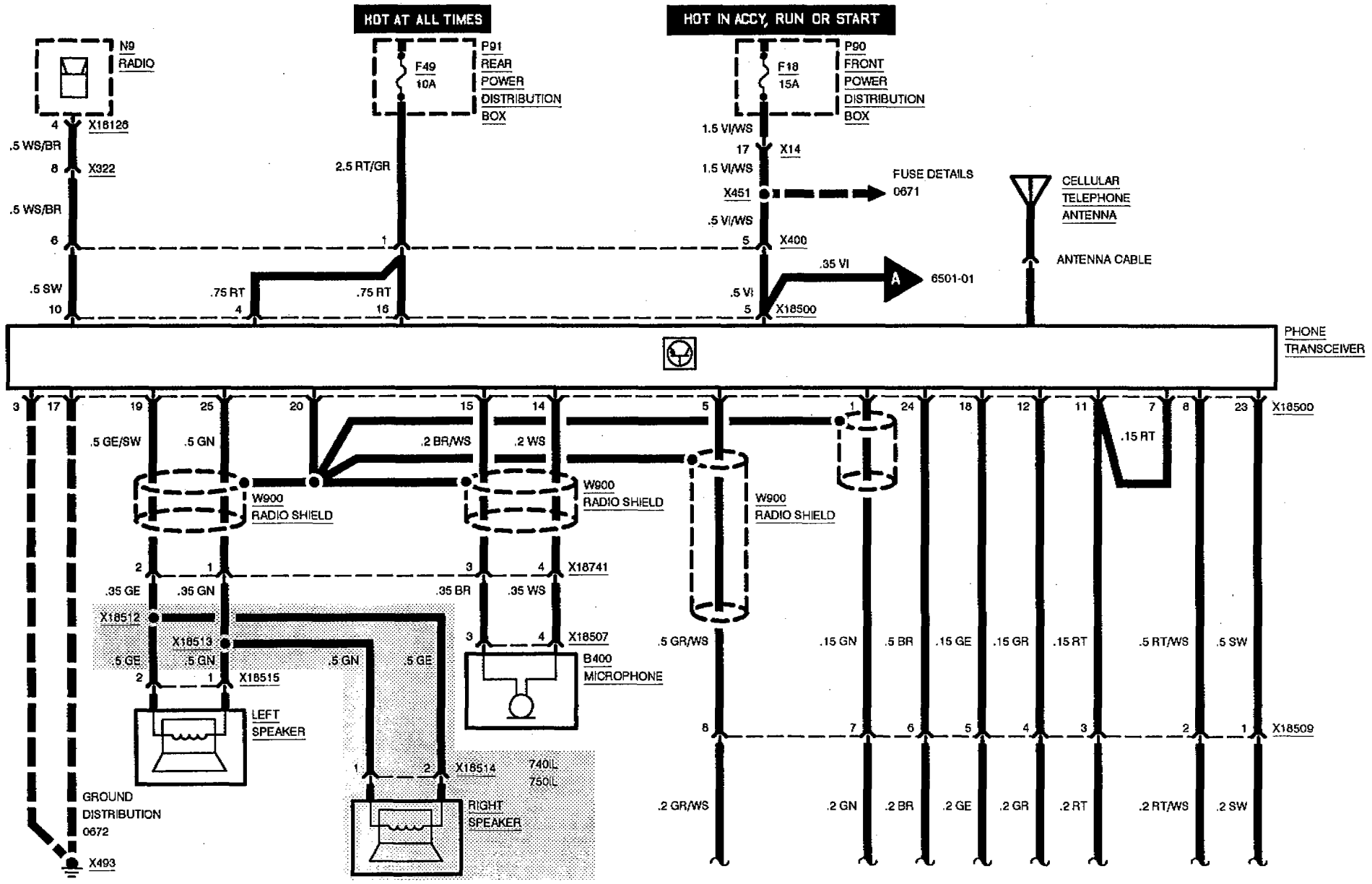
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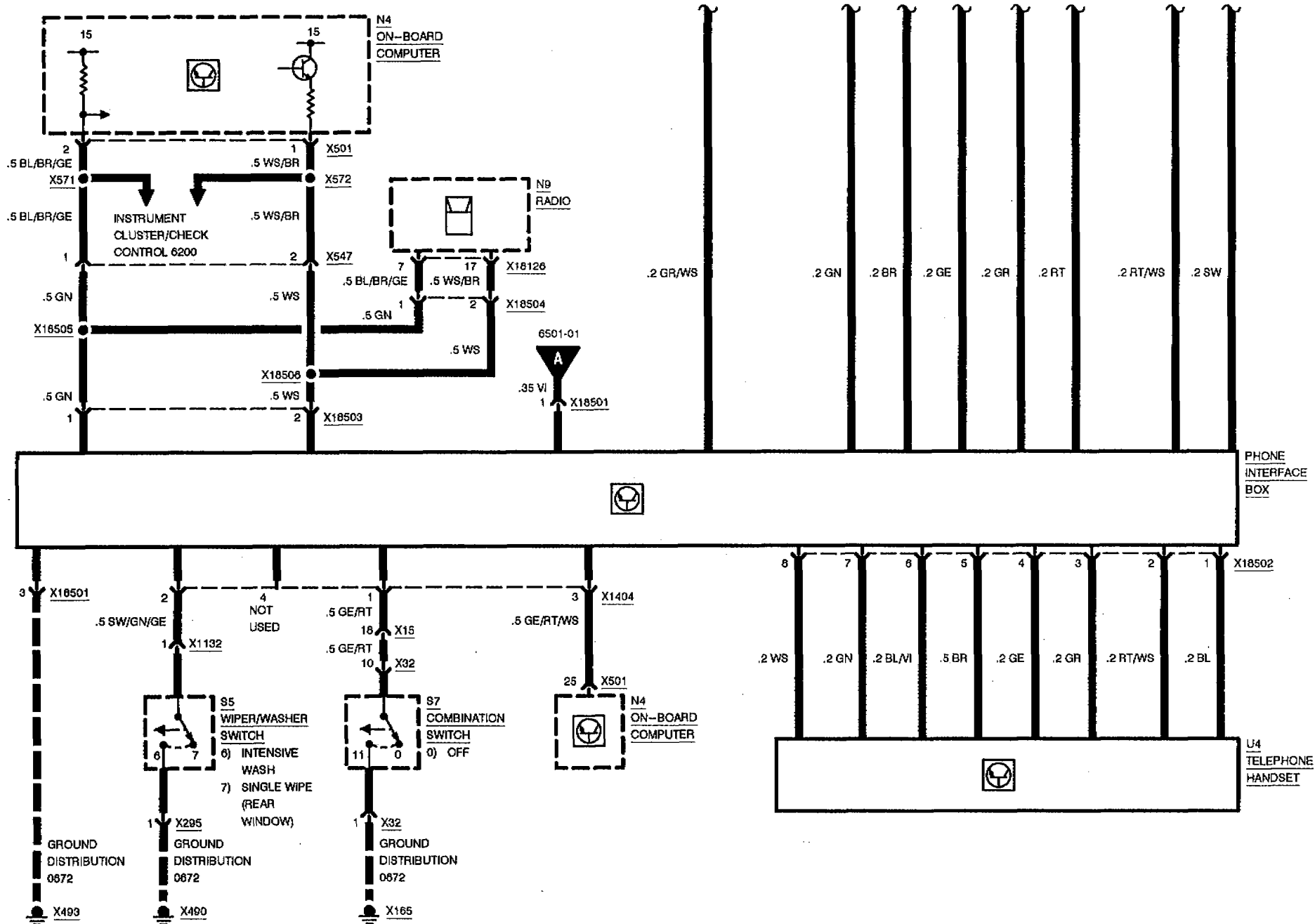






# CELLULAR TELEPHONE (PROVISIONS) WITH INTERFACE

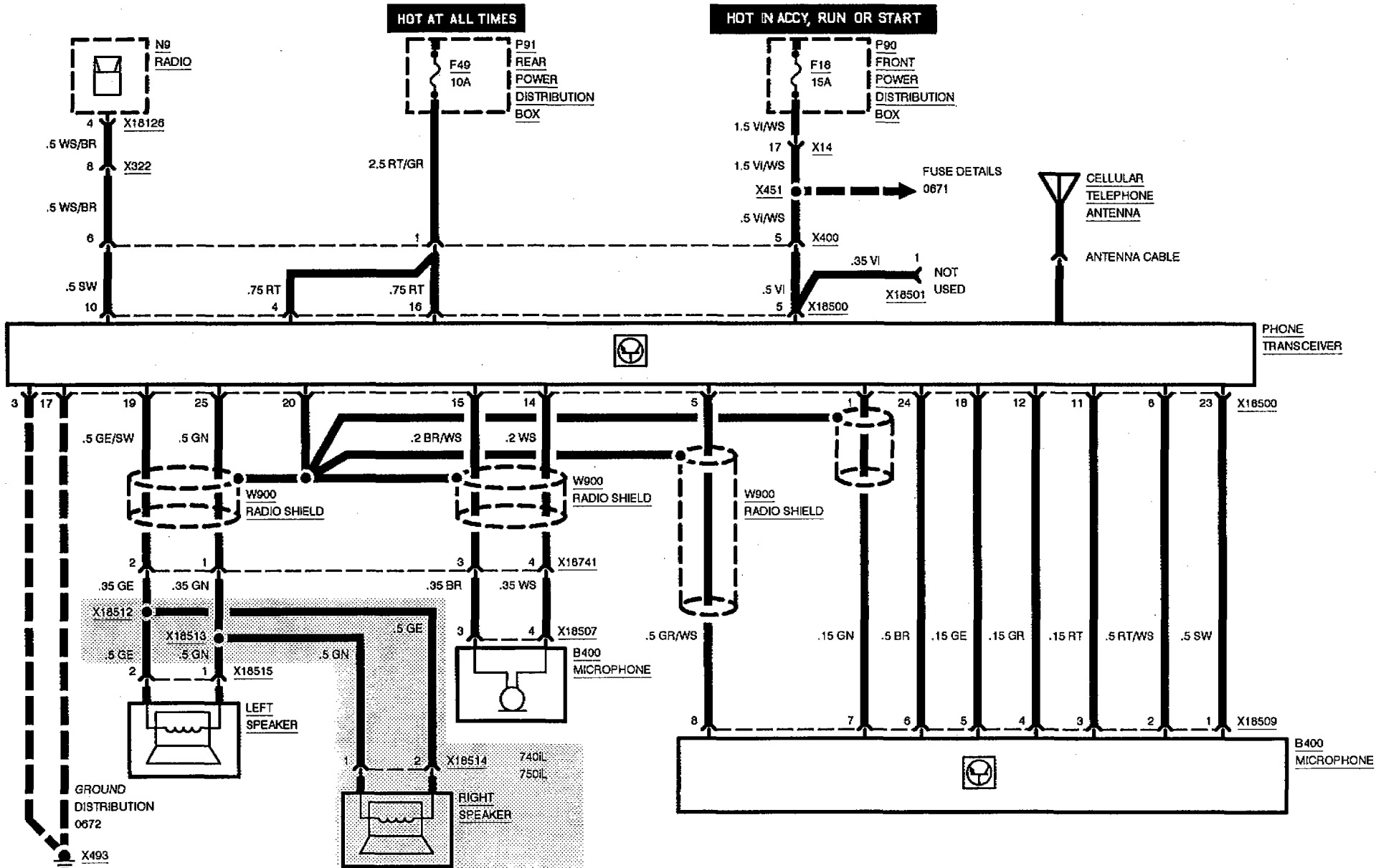








# CELLULAR TELEPHONE (PROVISIONS) WITHOUT INTERFACE

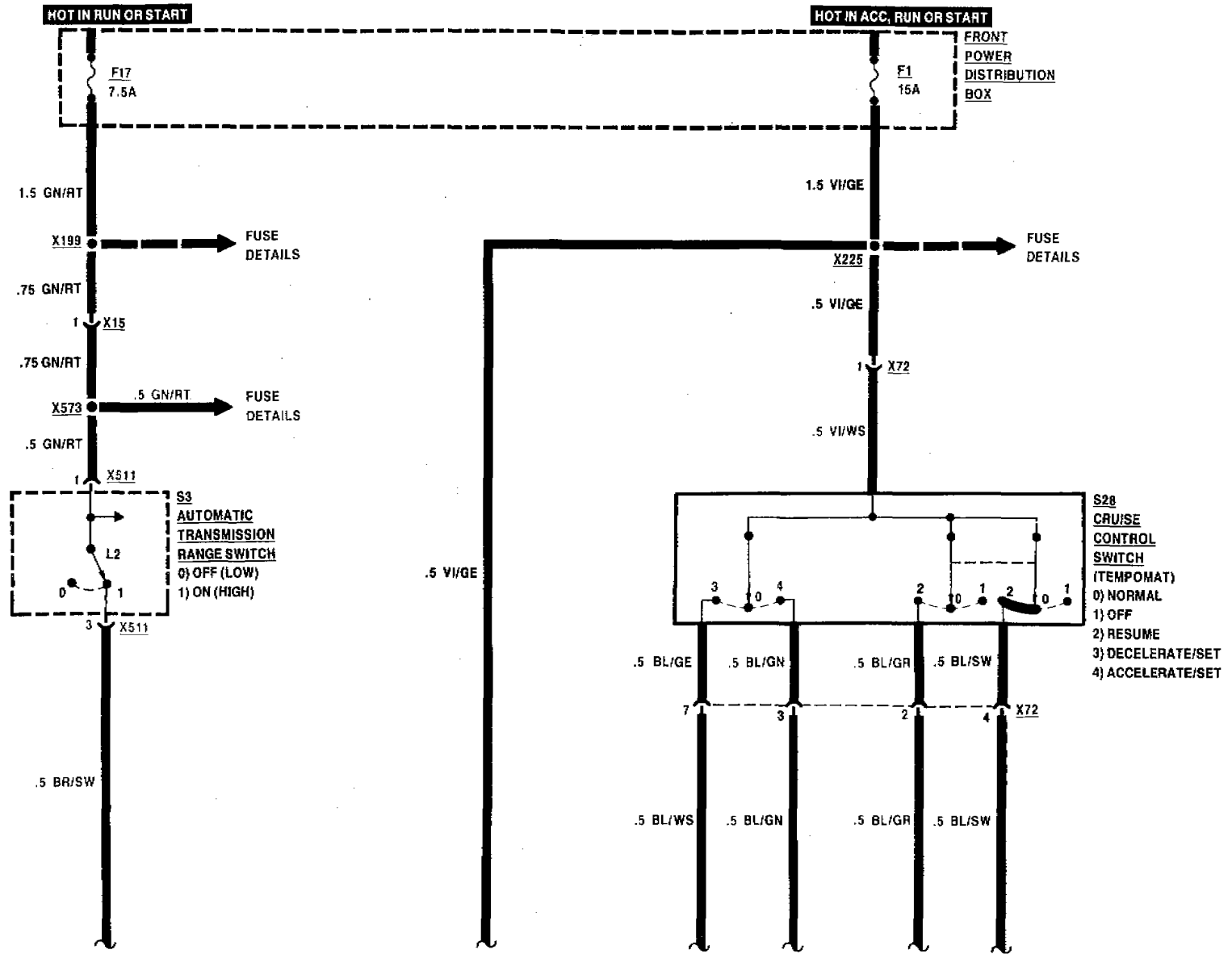


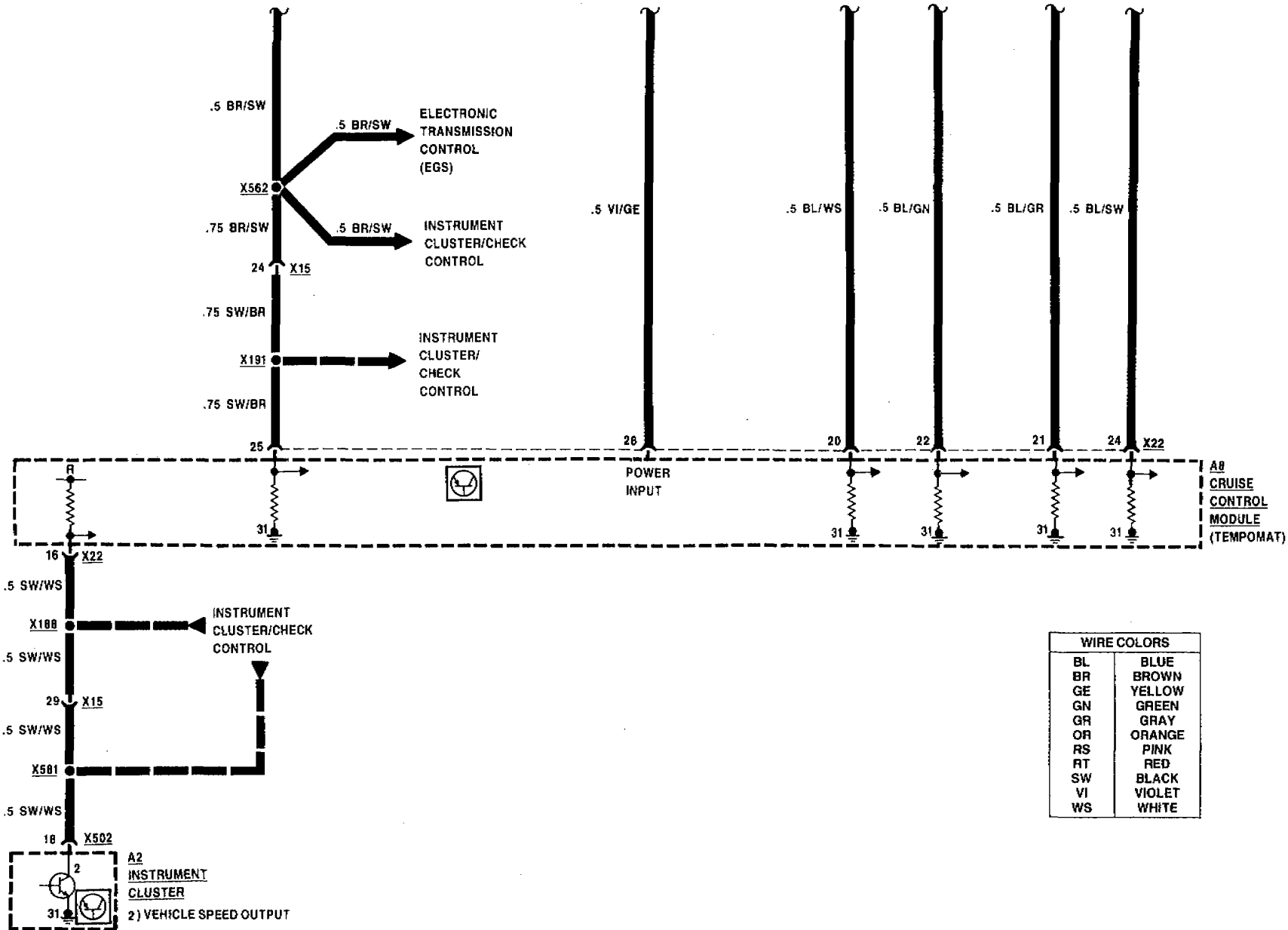


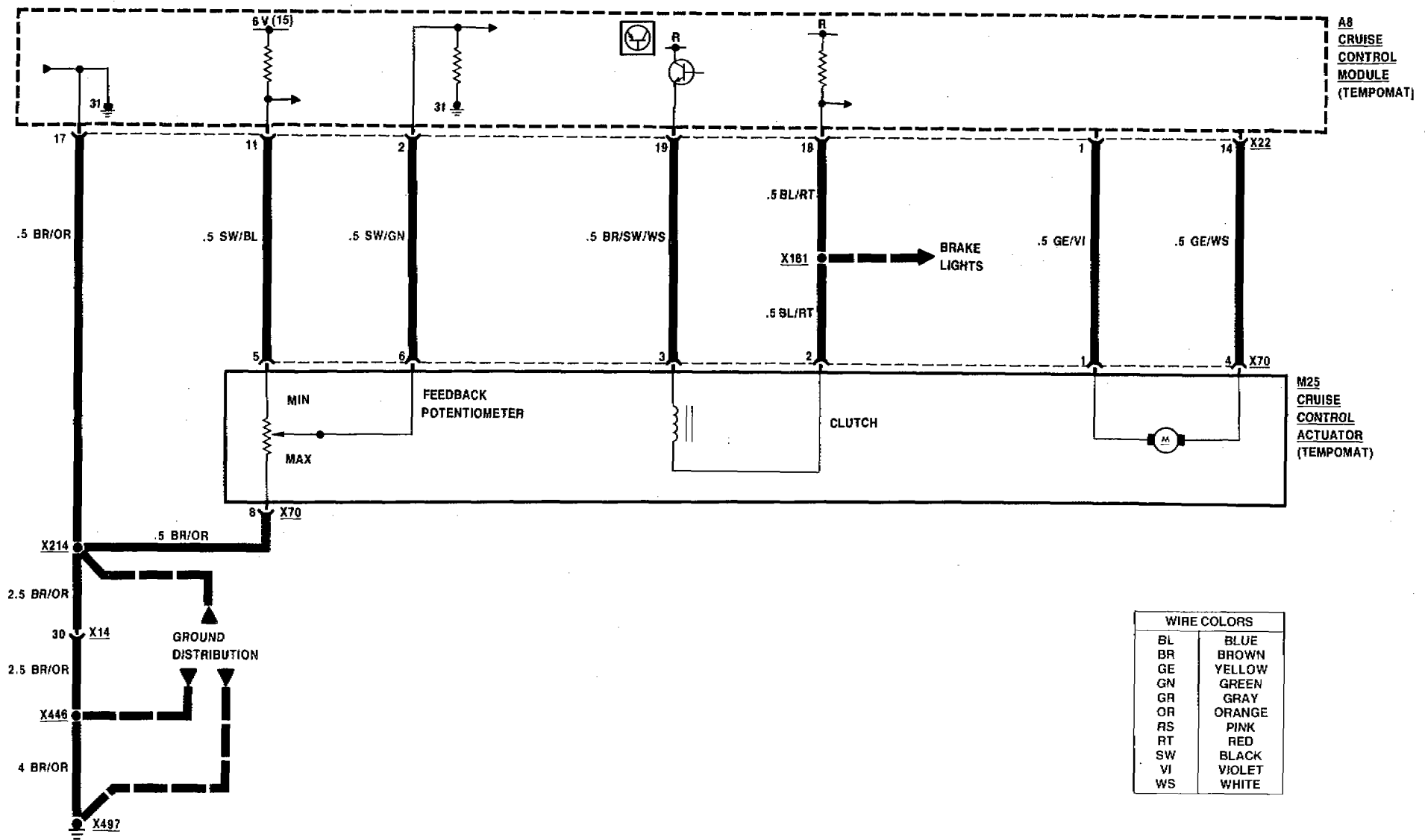
**WIRE COLORS**

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

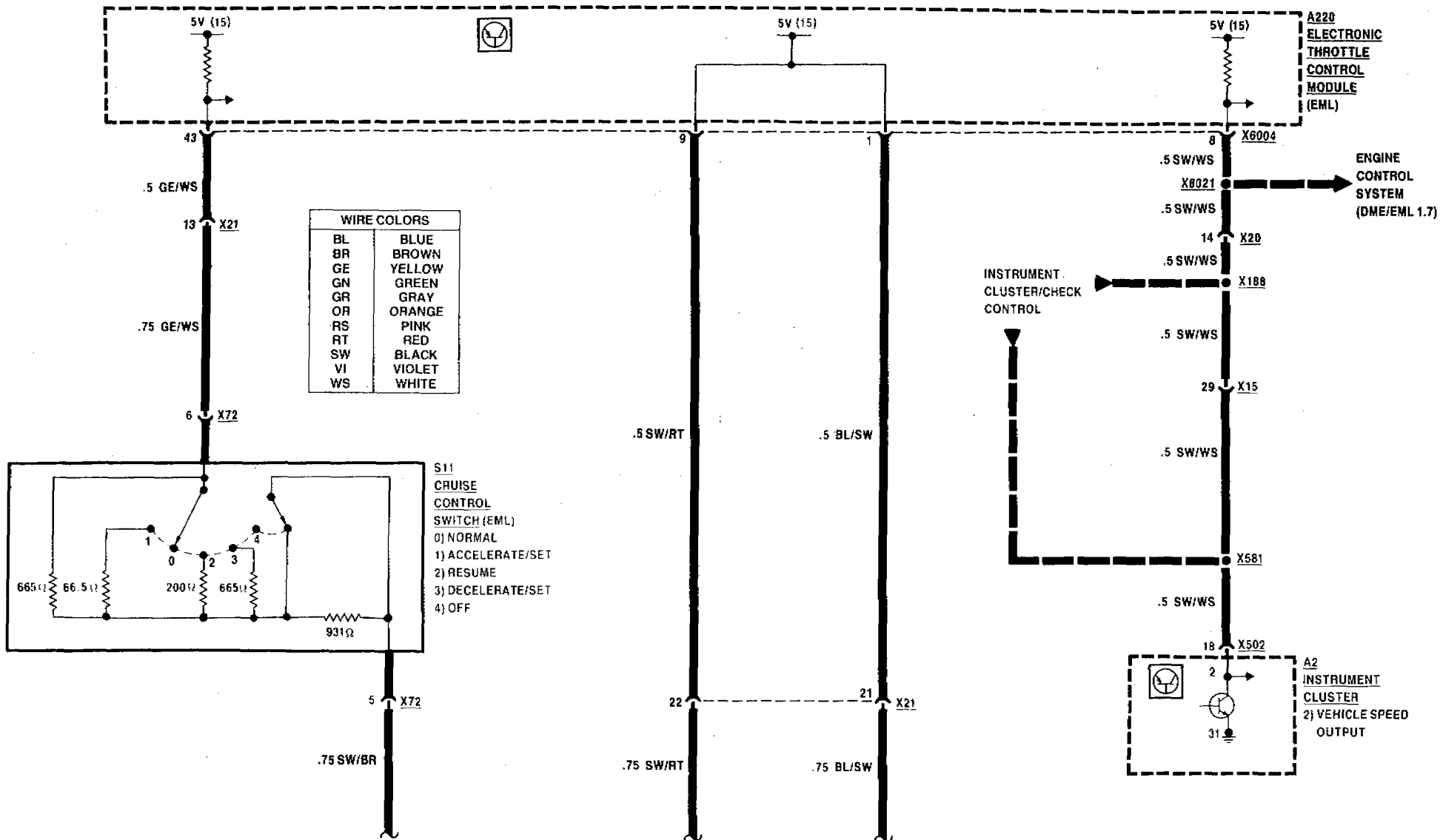
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R	1	0	0	1
N	0	1	1	0
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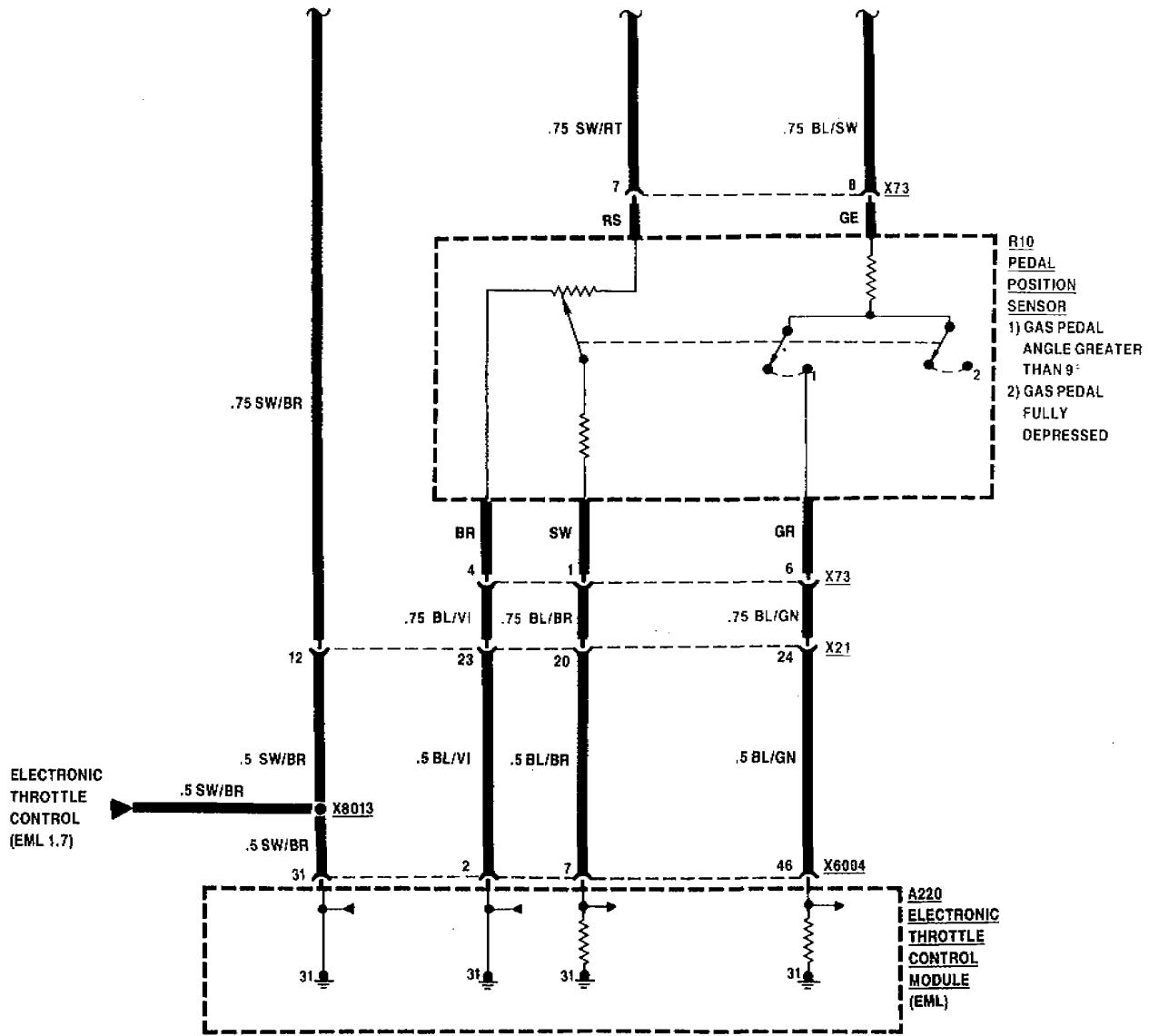






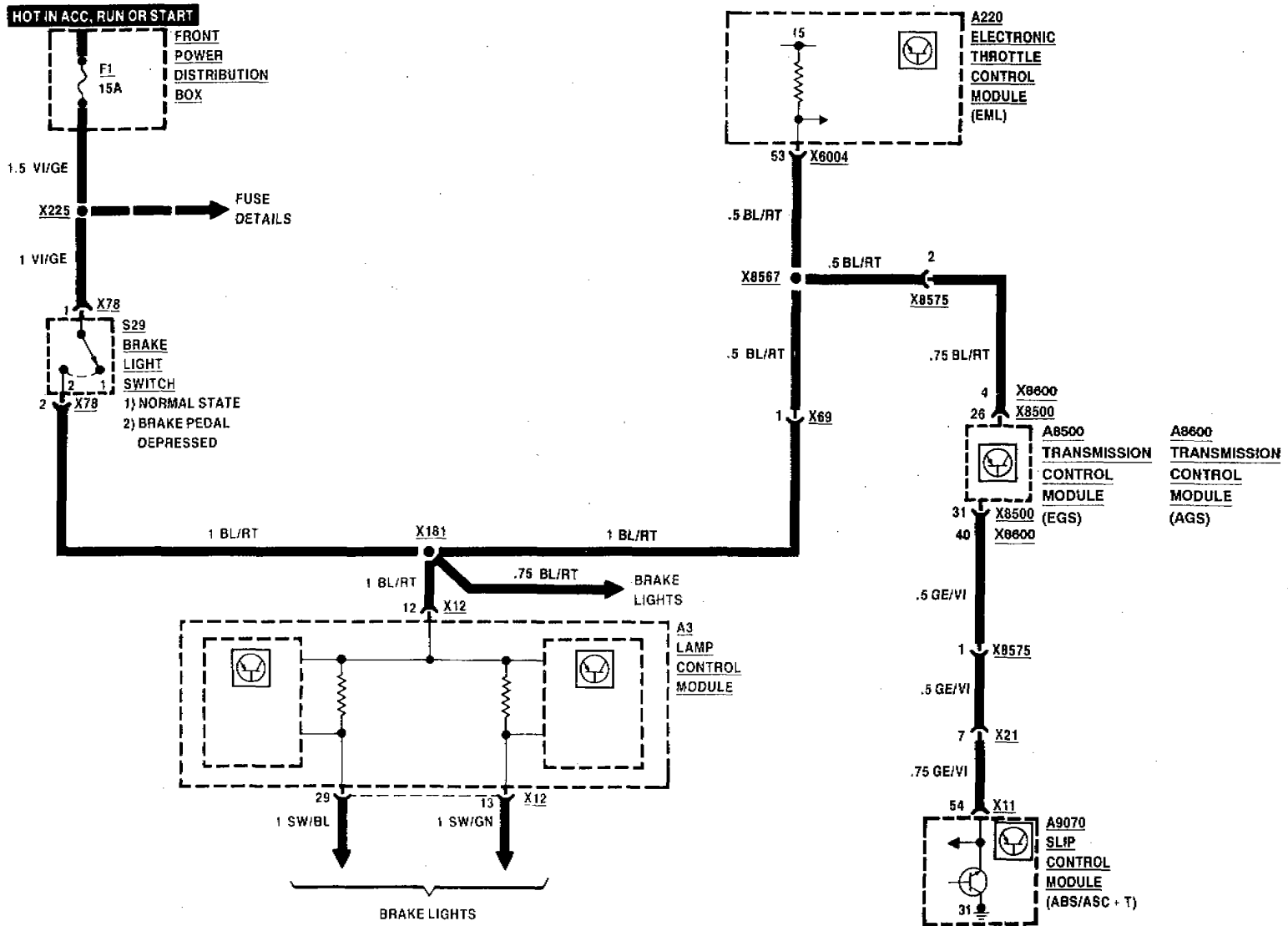






WIRE COLORS	
BL	BLUE
BR	BROWN
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GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





WIRE COLORS	
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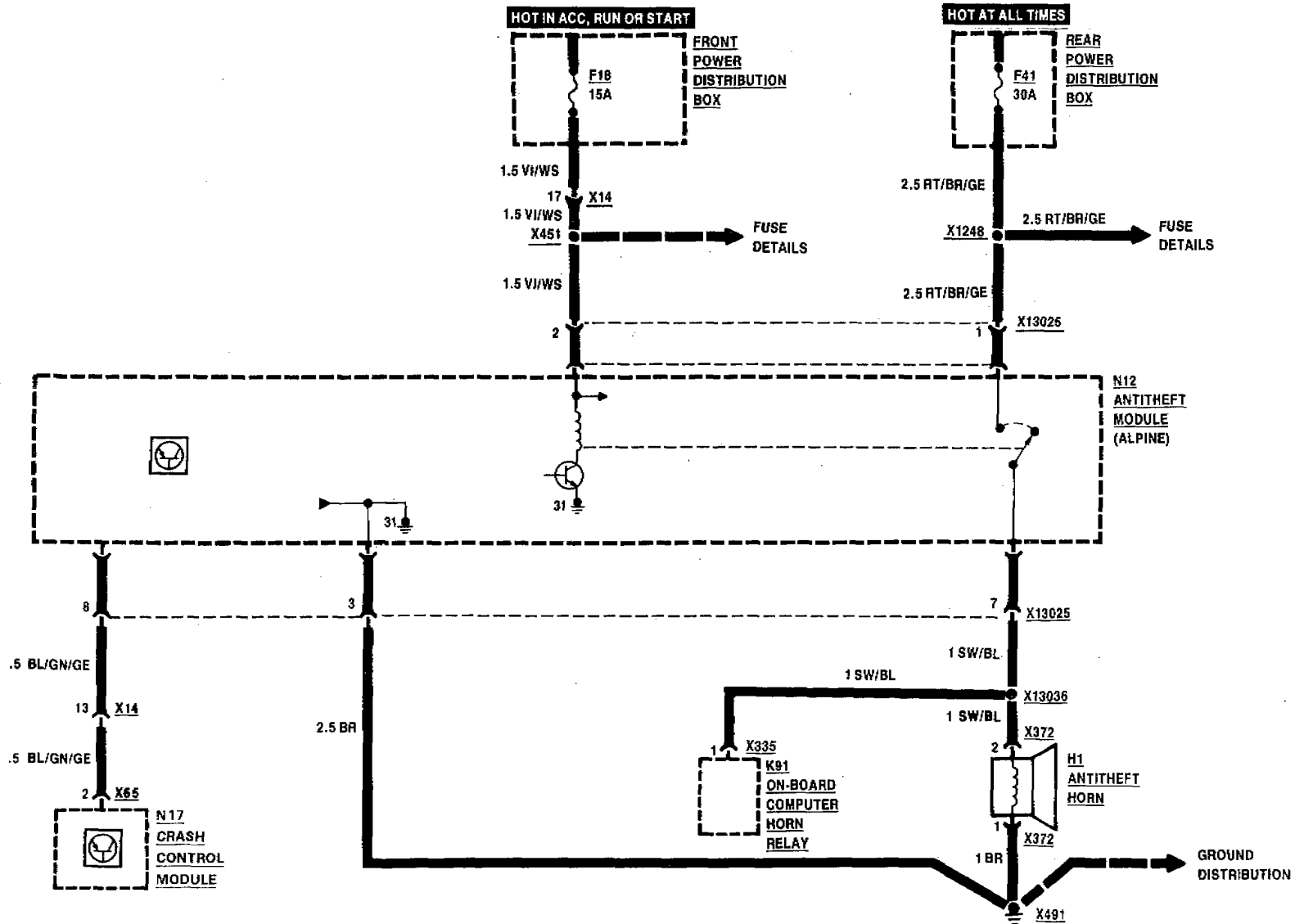


# ANTITHEFT SYSTEM (ALPINE) POWER, GROUND, ANTITHEFT HORN

12/93

6575-00

93/94

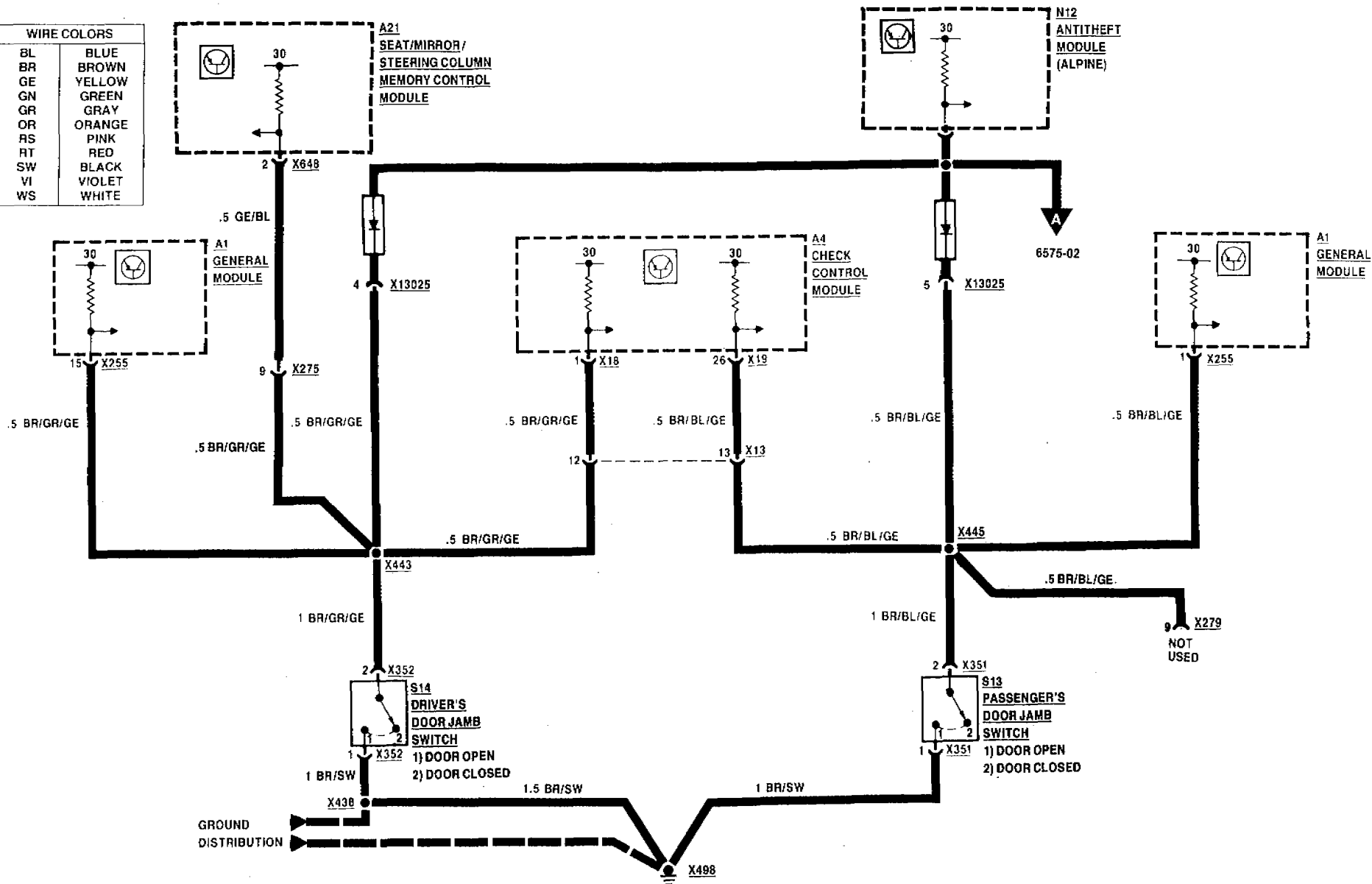




# ANTITHEFT SYSTEM (ALPINE)

## FRONT DOOR PROTECTION

WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
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SW	BLACK
VI	VIOLET
WS	WHITE





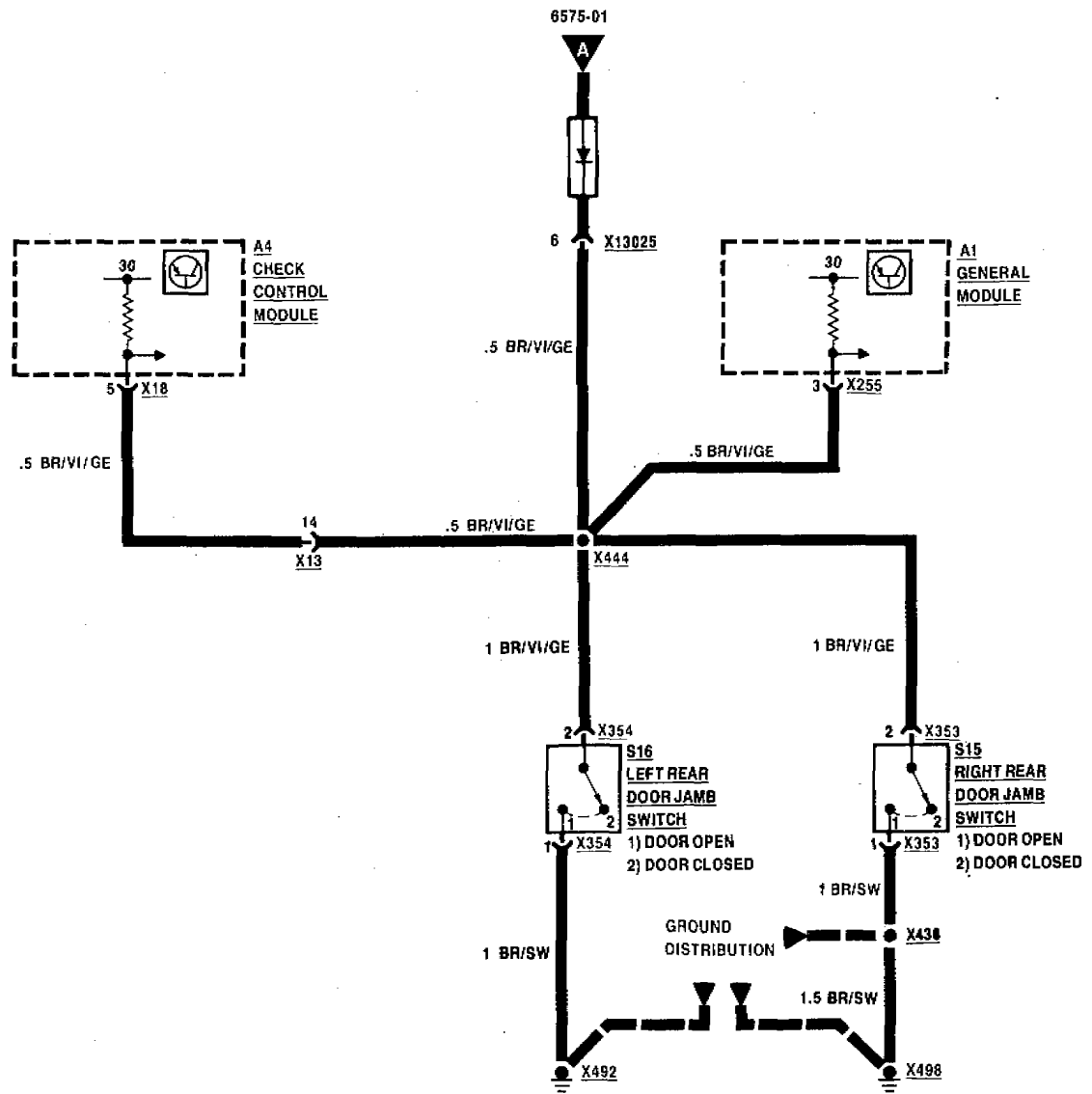
# ANTITHEFT SYSTEM (ALPINE)

## REAR DOOR PROTECTION

12/93

6575-02

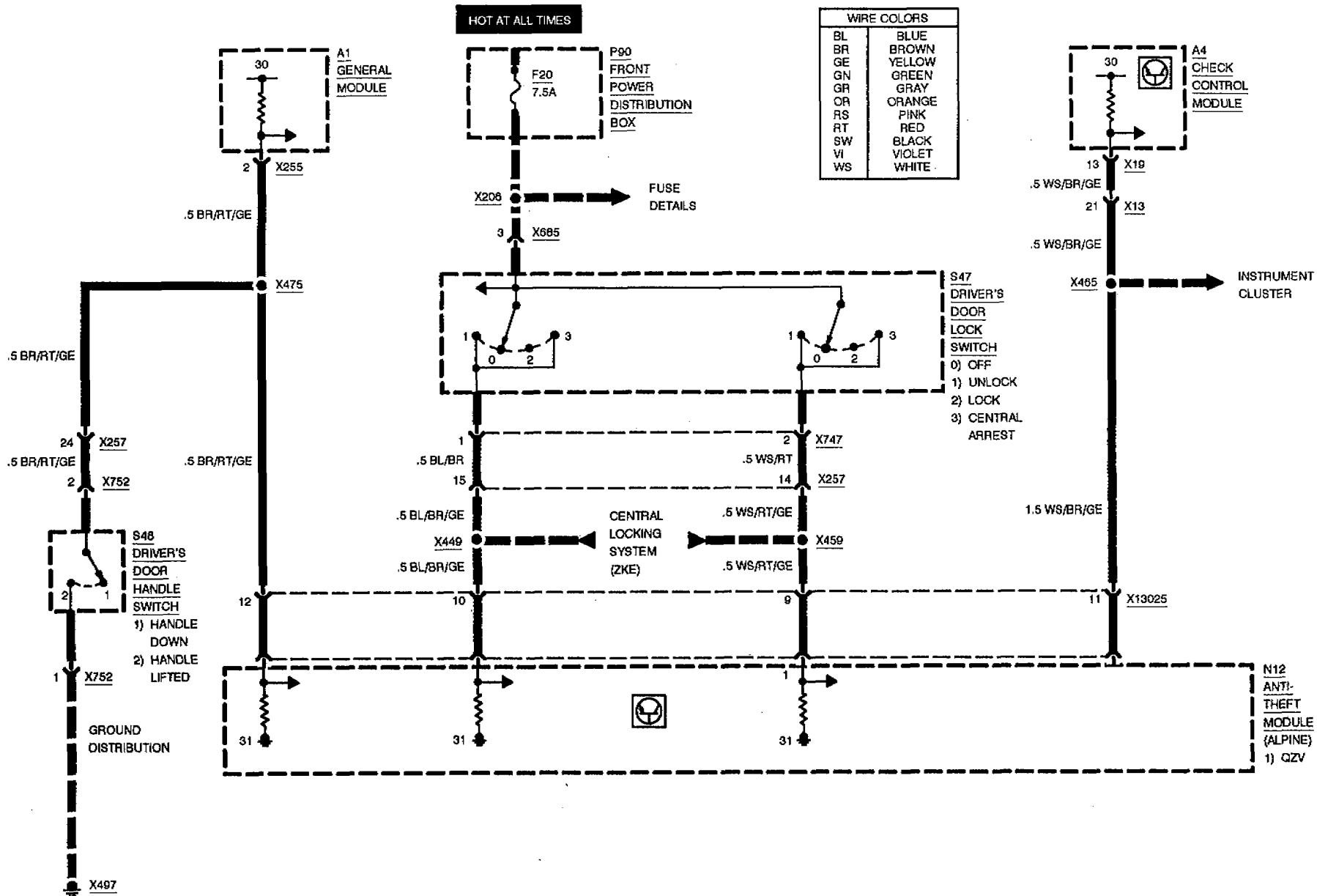
93/94



WIRE COLORS	
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GR	GRAY
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WS	WHITE

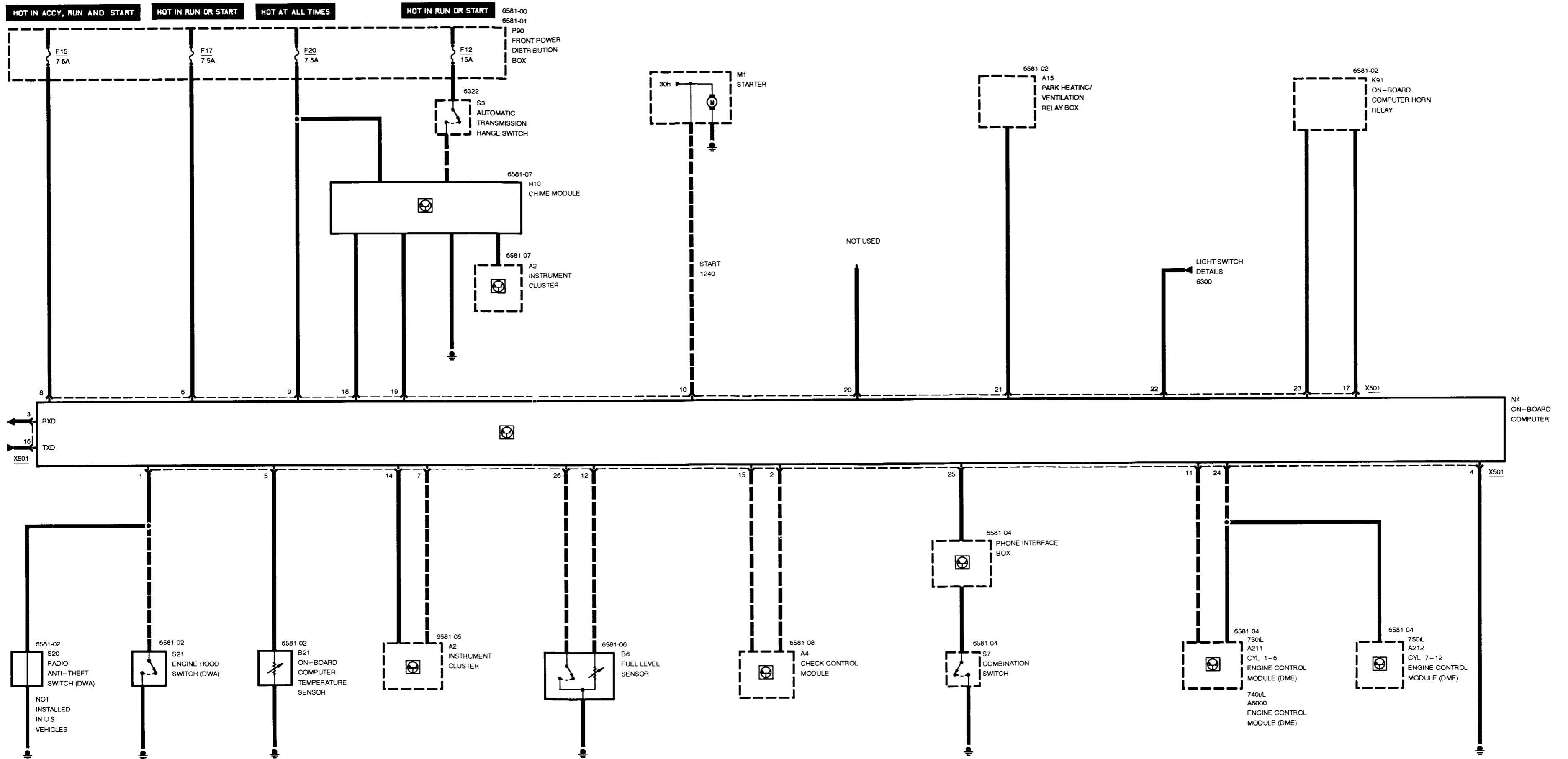


# ANTITHEFT SYSTEM (ALPINE)

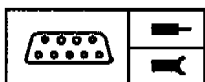


BMW  
7

6575-04







## Pin Assignments

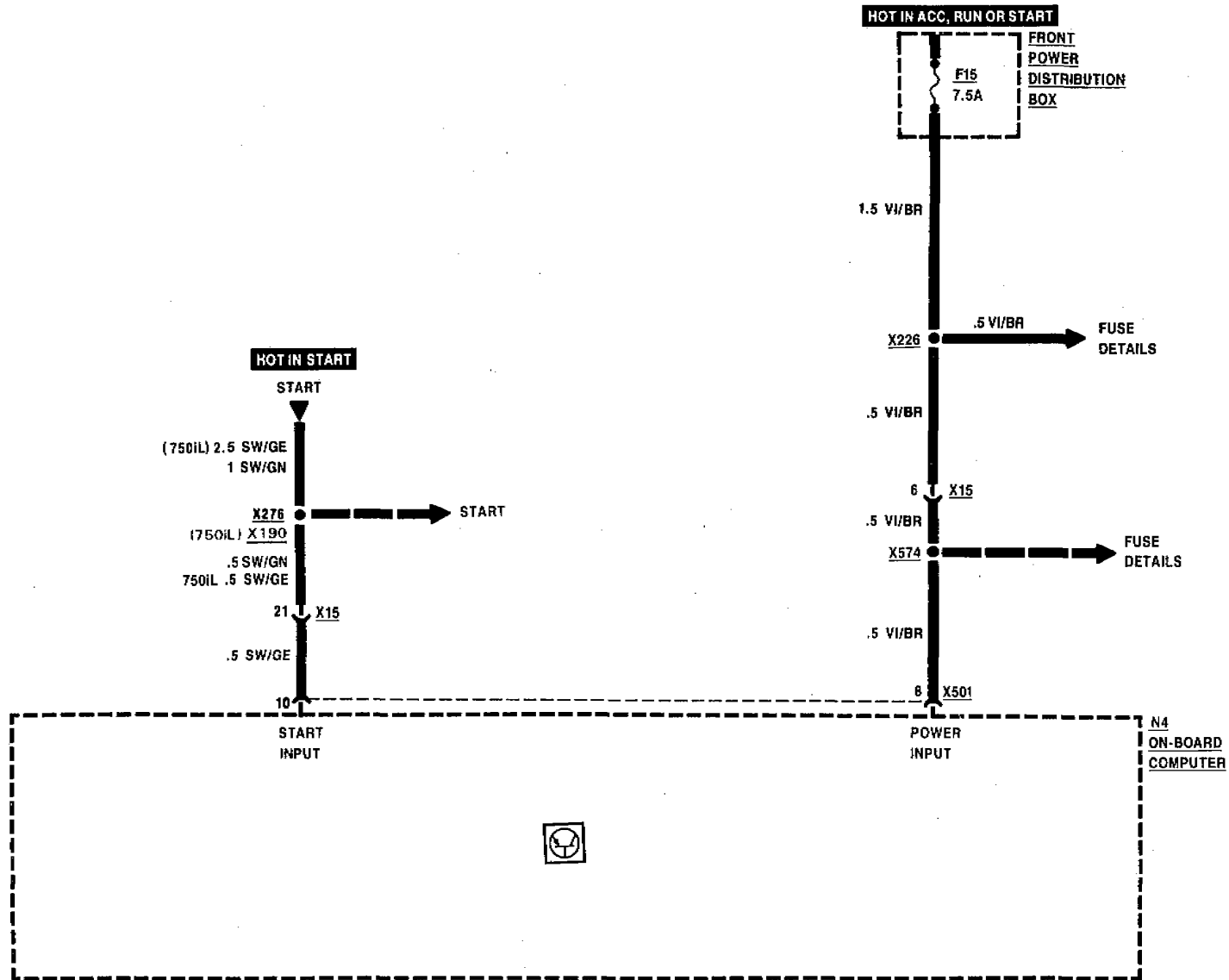
### X501

Pin	Type	Description/Function	Connection
1	E	Hood/radio tamper	Hood/radio tamper switches
2	A	DAC line	Check control module, A4
3	A	Diagnosis	Data link connector, RxD
4	M	Ground	Ground point
5	E	Outside temperature	Outside temperature sensor
6	E	Connection terminal 15	Front power distribution box
7	E	Position signal	Instrument cluster, A2
8	E	Connection terminal R	Front power distribution box
9	E	Connection terminal 30	Front power distribution box
10	E	Connection terminal 50	Starter, M1
11	E	Injection signal	Engine control module (DME)
12	E	Fuel gauge	Fuel level sensor
13		Not used	
14	E	Check control button	Instrument cluster, A2
15	E	LAC line	Check control module, A4
16	E	Diagnosis	Data link connector, TxD
17		Not used	
18	A	Gong T2	Chime module, H10
19	A	Gong T1	Chime module, H10
20		Not used	
21	A	Independent ventilation	Relay box, A15
22	E	Connection terminal 58g	Light switch
23		Not used	
24	A	Drive away protection	Engine control module (DME)
25	E	Remote control (telephone)	Phone interface box
26	E	Reserve tank contact	Fuel level sensor

E = Input, A = Output, M = Ground



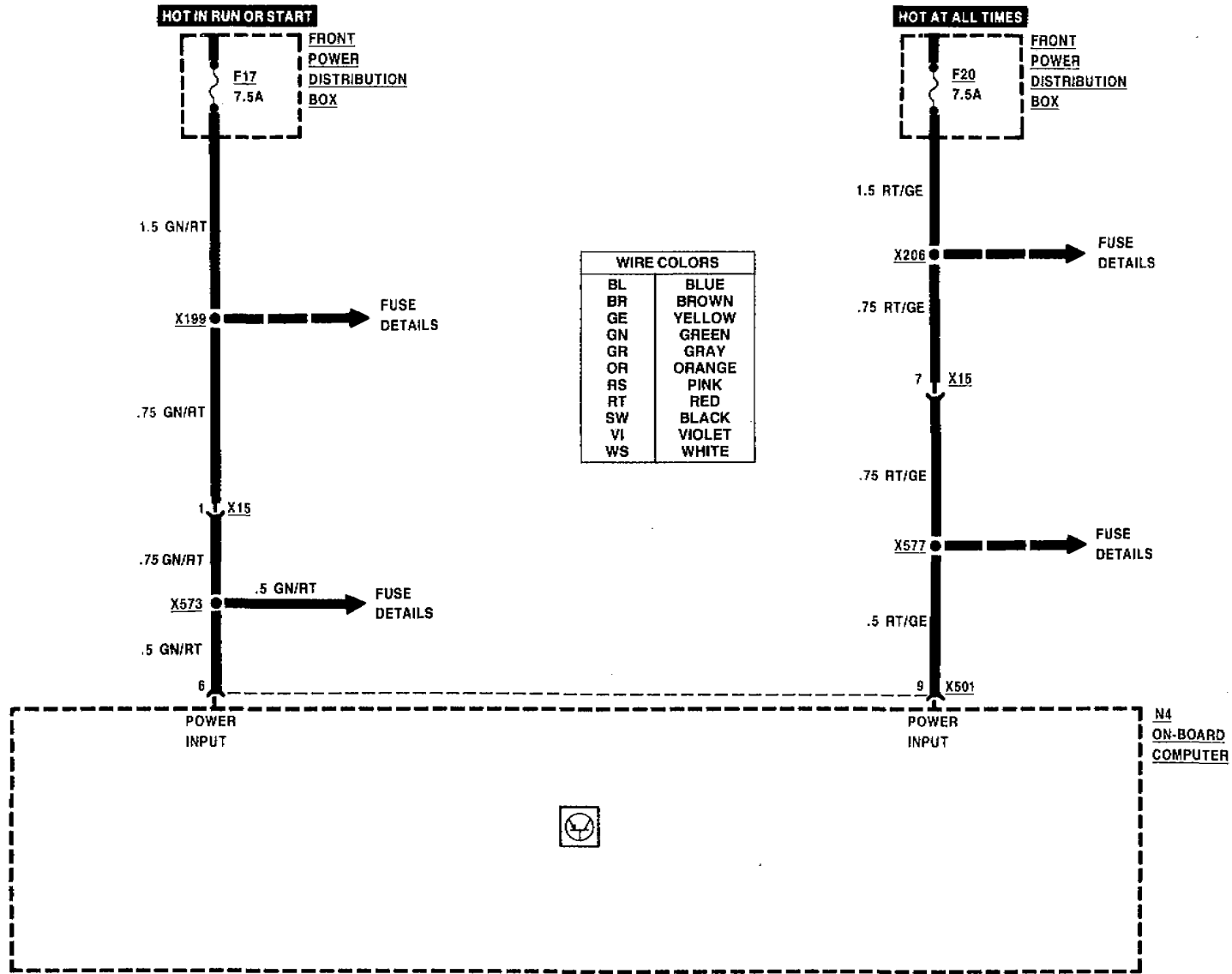
# ON-BOARD COMPUTER



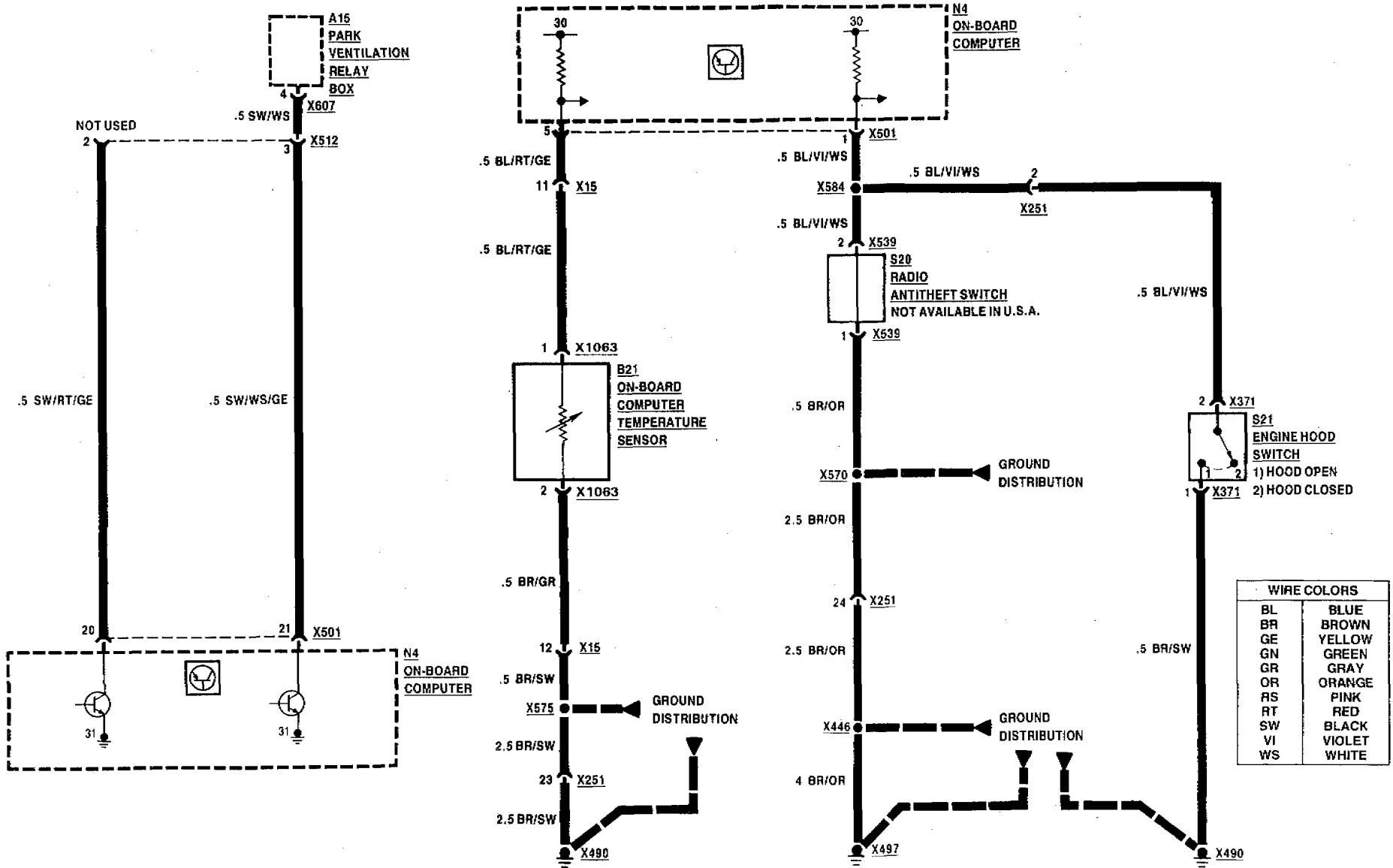
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GE	YELLOW
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OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE



# ON-BOARD COMPUTER

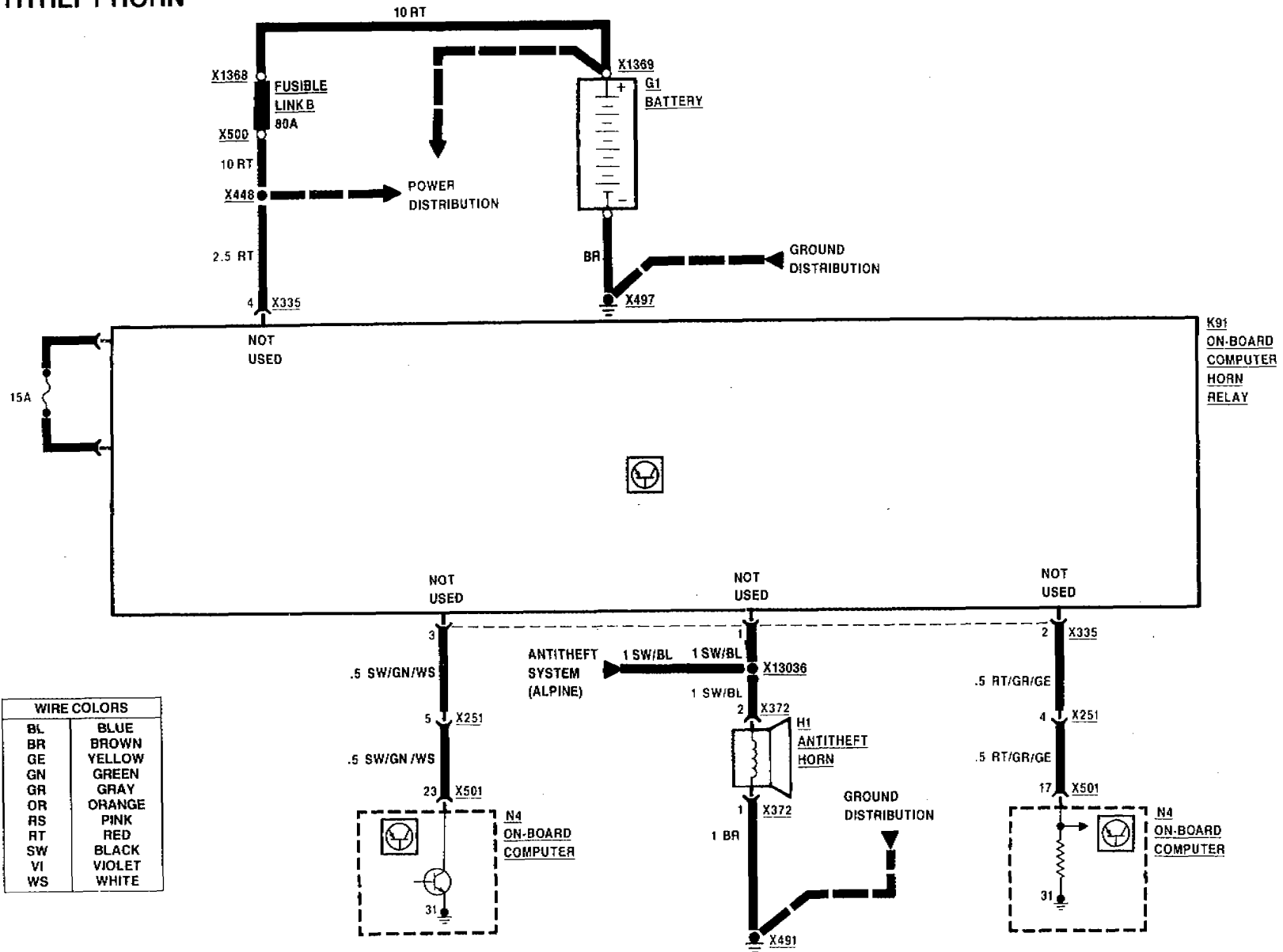


# ON-BOARD COMPUTER





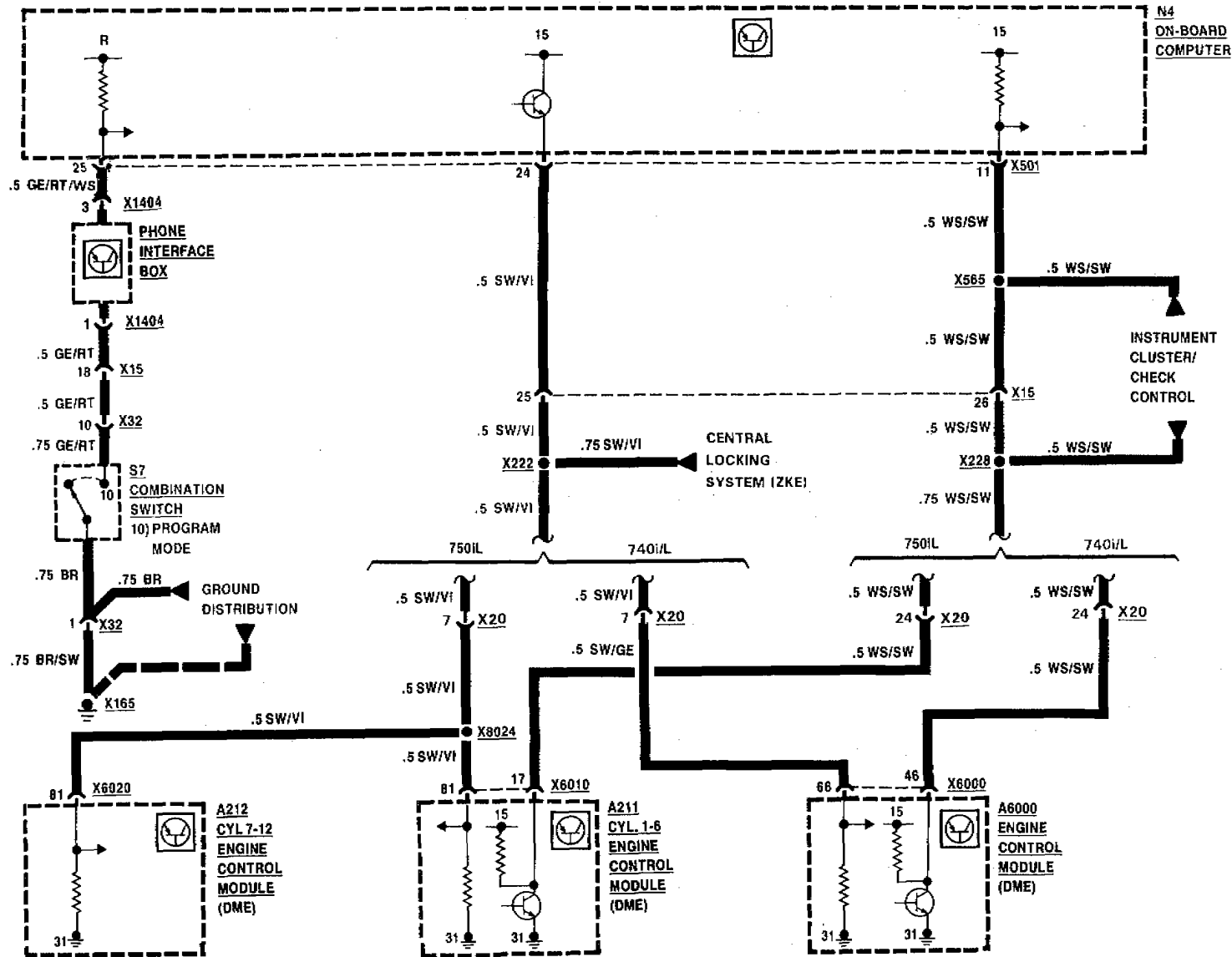
# ON-BOARD COMPUTER ANTITHEFT HORN





# ON-BOARD COMPUTER

## INJECTION SIGNAL, DRIVE AWAY PROTECTION, PROGRAMMING



WIRE COLORS	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VJ	VIOLET
WS	WHITE



# ON-BOARD COMPUTER

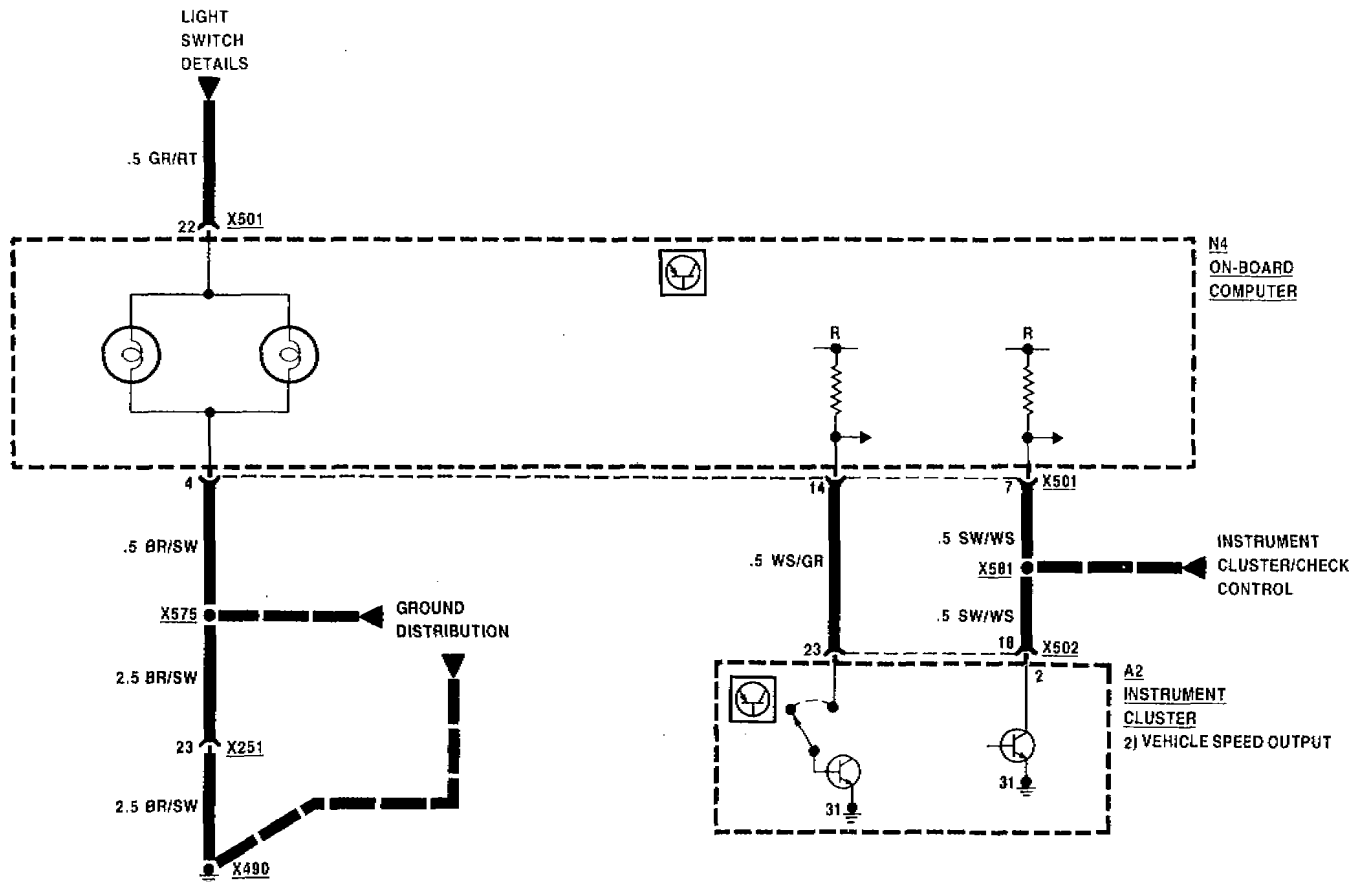
## VEHICLE SPEED

12/93

6581-05

93/94

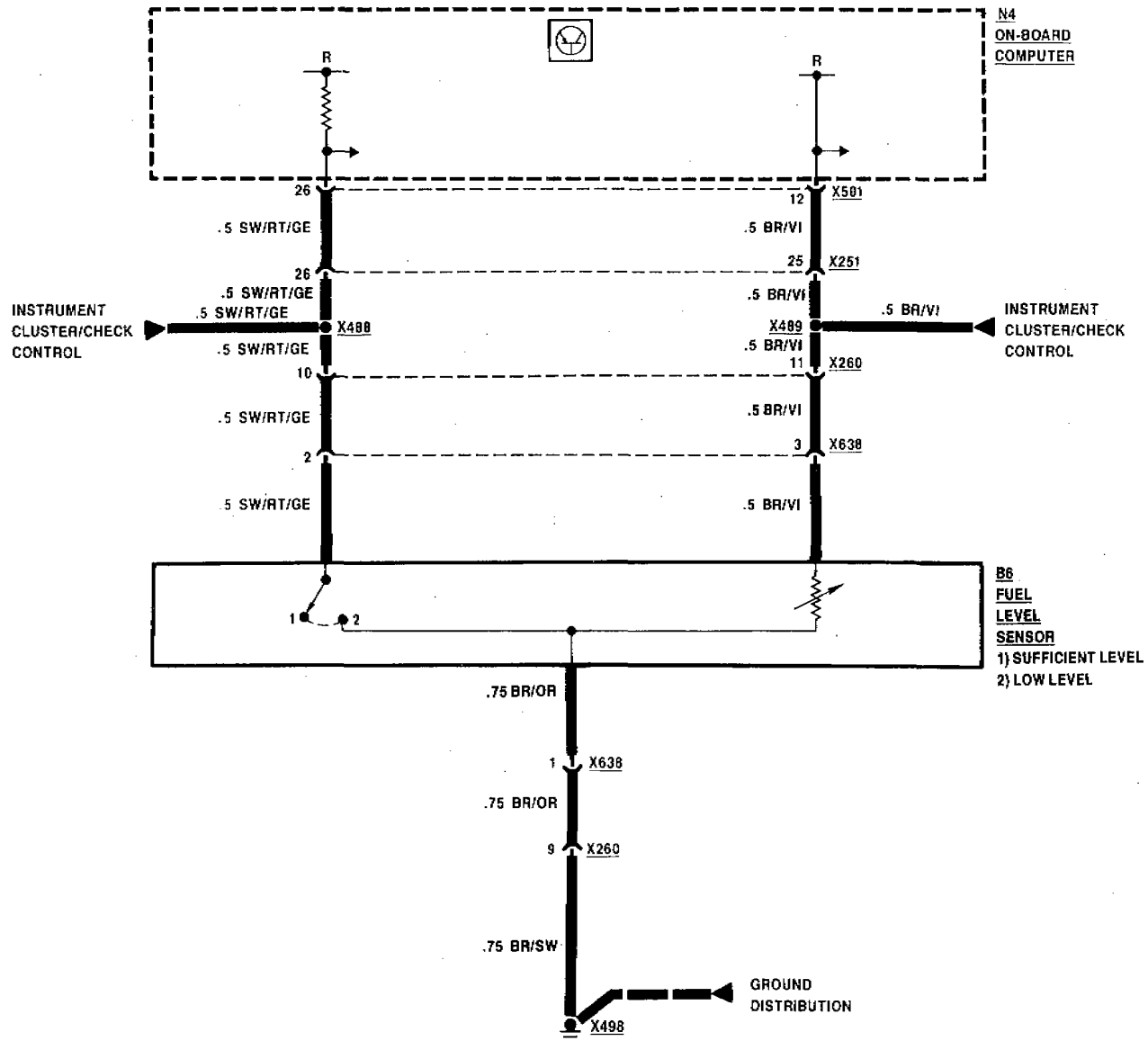
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GE	YELLOW
GN	GREEN
GR	GRAY
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RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# ON-BOARD COMPUTER

## FUEL INFORMATION



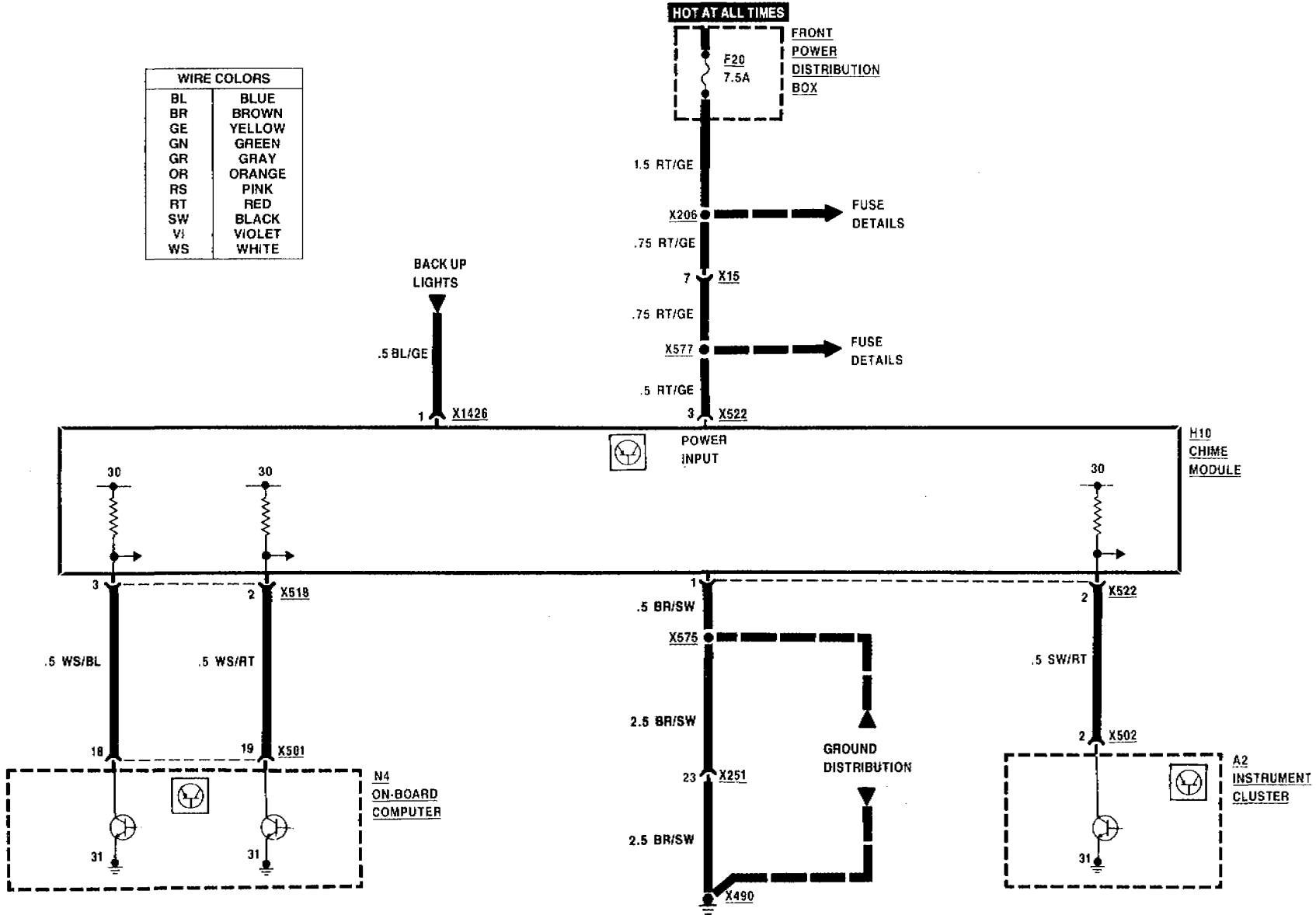
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GE	YELLOW
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SW	BLACK
VI	VIOLET
WS	WHITE





# ON-BOARD COMPUTER CHIME MODULE

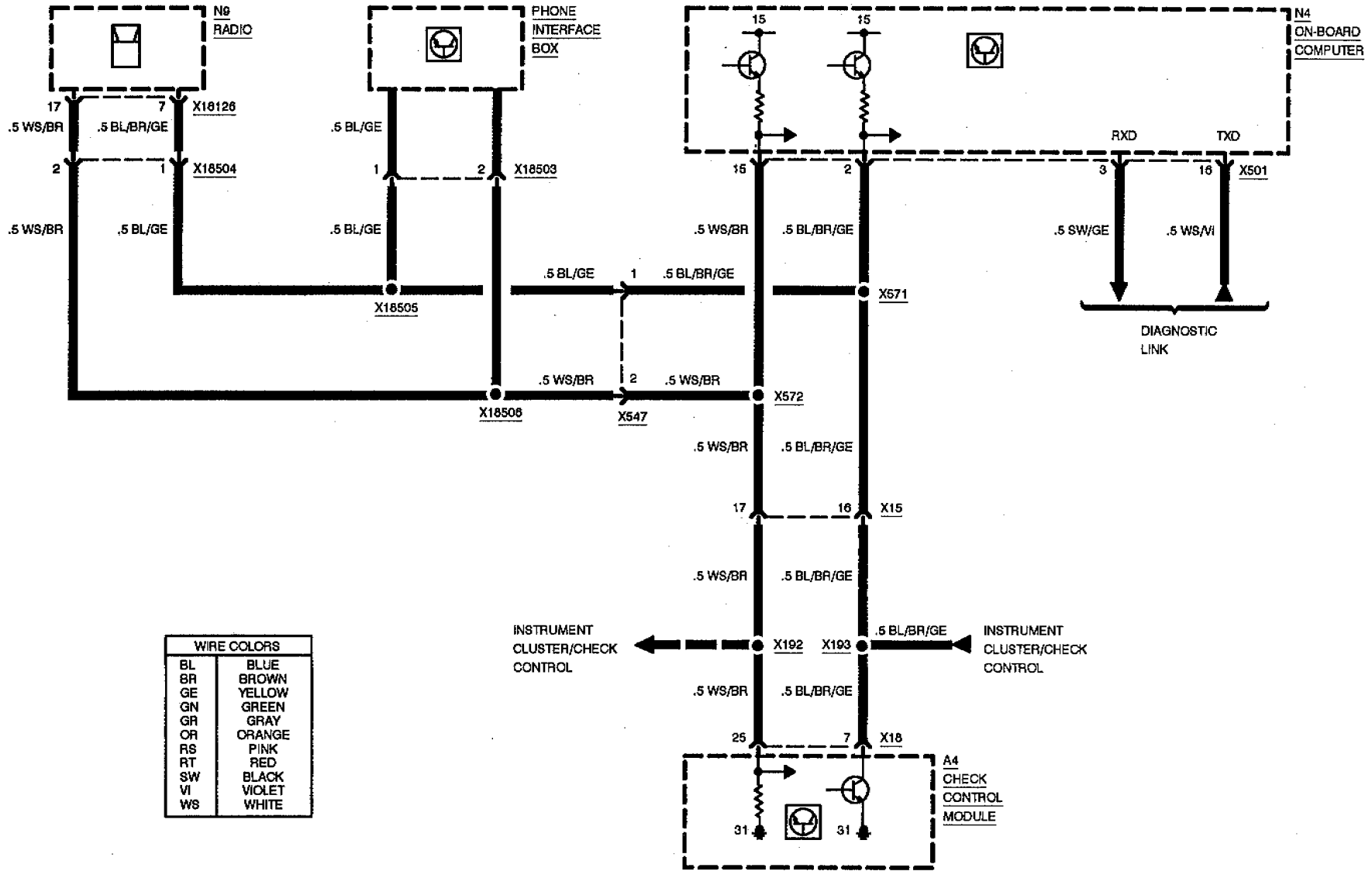
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RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE





# ON-BOARD COMPUTER

## DATA LINK



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





# COMPONENT LOCATION CHART

## COMPONENT

PAGE – FIGURE

1	Auxiliary Relay Box 1	LH side of engine compartment, ahead of shock tower	7100-04-1
1	Auxiliary Relay Box 2	RH side of engine compartment, forward of shock tower	7100-11-2
1	Diode	Above glove box, taped to harness	7100-31-3
1	E-Box	RH rear of engine compartment, behind RH front shock tower	7100-13-2
1	FD 3A	LH front of luggage compartment, on A9019 CD Changer	7100-44-1
1	Front Power Distribution Box	LH rear corner of engine compartment	7100-00-2
1	Fusible Link A (50A)	Below RH side of rear seat, right of G1 Battery	7100-41-3
1	Fusible Link B (80A)	Below RH side of rear seat, behind G1 Battery	7100-41-2
1	Microphone	Center of I/P, left of N9 Radio	
1	Phone Interface Box	Below center of center console	
1	Phone Transceiver	RH front of luggage compartment	
1	Rear Power Distribution Box	Below LH side of rear seat	7100-38-2
1	Right Speaker	At RH kick panel	
1	Left Speaker	At LH kick panel	
A1	General Module	Below LH side of rear seat, in Rear Power Distribution Box	7100-38-2
A2	Instrument Cluster	Top LH side of dash	7100-24-3
A3	Lamp Control Module	LH rear of engine compartment, in Front Power Distribution Box	7100-00-3
A4	Check Control Module	LH rear of engine compartment, in Front Power Distribution Box	7100-00-3
A5	Relay Module	Below LH side of rear seat, in Rear Power Distribution Box	7100-38-2
A7	Slip Control Module (ABS)	Behind RH front shock tower, in E-Box	
A8	Cruise Control Module (Tempomat)	Behind LH front speaker	
A11	Automatic Heating/AC Control Module (IHKA)	Ahead of IHKA Plenum	7100-31-1



## COMPONENT LOCATION CHART

COMPONENT		PAGE – FIGURE
A12	Supplemental Restraint System Control Module	Below LH side of dash, left of steering column ..... 7100-21-3
A13	Headrest Control Module (Rear)	Below LH side of rear seat, in Rear Power Distribution Box ..... 7100-38-2
A15	Park Ventilation Relay Box	Behind RH side of dash, above glove box ..... 7100-31-2
A17	Servotronic Control Module	Inside top of LH kick panel, on module/relay bracket ..... 7100-20-1
A18	Hifi Amplifier	Behind LH luggage compartment trim panel, on brace ..... 7100-44-2
A21	Seat/Mirror Memory Control Module	Underside of LH front seat
A21z	Seat/Mirror/Steering Column Memory Control Module	Under driver's seat ..... 7100-35-3
A26	Lock-Sensor Control Module	Inside top of LH kick panel, on module/relay bracket ..... 7100-20-2
A82	Sun Blind Control Module	Back of rear window shelf
A113	Seat Load Assembly	RH front side
A211	Cyl. 1-6 Engine Control Module (DME)	Behind RH front shock tower, in E-Box ..... 7100-14-2
A212	Cyl. 7-12 Engine Control Module (DME)	Behind RH front shock tower, in E-Box ..... 7100-14-2
A220	Electronic Throttle Control Module (EML)	Behind RH front shock tower, in E-Box ..... 7100-14-2
A227	Electrochromic Mirror	Center of windshield header ..... 7100-29-2
A300	Transmission Control Module (EGS)	Behind RH kick panel ..... 7100-32-2
A413	Electronic Shock Absorber Control Module (EDC)	RH side of luggage compartment
A417	Automatic Air Recirculation Control Module	Behind LH footwell speaker grille
A443	Left Xenon Light	LH side of engine compartment
A444	Right Xenon Light	RH side of engine compartment
A460	Soft Close Trunk Lid Control Module	RH side of luggage compartment



# COMPONENT LOCATION CHART

## COMPONENT

PAGE – FIGURE

A6000	.. Engine Control Module (DME)	..... Behind RH front shock tower, in E-Box	..... 7100-13-3
A6007	.. Electronic Throttle Control Module (ADS II)	..... In RH kick panel	..... 7100-32-1
A8500	.. Transmission Control Module (EGS) (740i/L)	..... Behind RH front shock tower, in E-Box	..... 7100-13-3
A8600	.. Adaptive Transmission Control Module (AGS)	..... Behind RH kick panel	
A9019	.. CD Changer	..... LH front of luggage compartment	..... 7100-43-3
A9070	.. Slip Control Module (ABS/ASC+T) (750iL)	..... Behind RH front shock tower, in E-Box	..... 7100-14-2
A9070	.. Slip Control Module (ABS/ASC+T) (740i/L)	..... Behind RH front shock tower, in E-Box	..... 7100-13-3
B1	..... Right Front Speed Sensor (ABS)	..... Behind RH front wheel	..... 7100-18-1
B2	..... Left Front Speed Sensor (ABS)	..... Behind LH front wheel	..... 7100-17-3
B3	..... Right Rear Speed Sensor (ABS)	..... Behind RH rear wheel	..... 7100-18-3
B4	..... Left Rear Speed Sensor (ABS)	..... Behind LH rear wheel	..... 7100-18-2
B6	..... Fuel Level Sensor	..... Below luggage compartment, thru RH access panel, right of spare tire	..... 7100-45-1
B10	..... Vehicle Speed Sensor	..... Below rear of car, on RH side of rear differential	..... 7100-19-3
B11	..... LH Heat Exchanger Temperature Sensor	..... Below LH side of dash, in LH rear of IHKA plenum	..... 7100-25-2
B12	..... RH Heat Exchanger Temperature Sensor	..... Below RH side of dash, in RH side of IHKA plenum	..... 7100-30-3
B13	..... Outside Temperature Sensor	..... Behind coolant expansion tank support panel, on right of M30 Blower Motor	
B14	..... Evaporator Temperature Sensor	..... Below LH side of dash, on lower LH side of IHKA plenum	..... 7100-26-1
B15	..... Electro-Hydraulic Converter (Servotronic)	..... Below LH front of car, on bottom of steering rack assembly	..... 7100-15-3
B16	..... Left Front Brake Pad Sensor	..... Behind LH front wheel, on brake caliper	..... 7100-17-3
B17	..... Right Rear Brake Pad Sensor	..... Behind RH rear wheel, on brake caliper	..... 7100-18-3
B18	..... Brake Fluid Level Switch (750iL)	..... LH rear of engine compartment, top of brake fluid reservoir	..... 7100-03-1



# COMPONENT LOCATION CHART

## COMPONENT

PAGE – FIGURE

B18	....	Brake Fluid Level Switch (740i/L)	.....	LH rear of engine compartment, top of brake fluid reservoir	
B19	....	Brake Pressure Regulating Switch	.....	LH side of engine compartment, right of shock tower	7100-04-1
B20	....	Brake Pressure Switch	.....	LH side of engine compartment, right of shock tower	7100-04-1
B21	....	On-board Computer Temperature Sensor	....	RH side of front bumper, top LH side of fog light	7100-07-1
B22	....	Wheel Camber Control Module	.....	Below RH rear of car, above RH halfshaft	7100-19-2
B40	....	Steering Angle Sender	.....	On steering column	
B41	....	Right Front Acceleration Sensor	.....	RH side of engine compartment	
B48	....	Right Rear Acceleration Sensor	.....	RH side of luggage compartment, near wheel well	
B49	....	Longitudinal Acceleration Sensor	.....	LH side of luggage compartment, near wheel well	
B205	...	Oil Level Sensor (750iL)	.....	Under front of car, on bottom of oil pan	7100-07-2
B205	...	Oil Pressure Switch (740i/L)	.....	Under front of car, on bottom of oil pan	
B206	...	Oil Pressure Switch	.....	LH front of engine, on rear of oil filter	7100-05-2
B207	...	Engine Coolant Temperature Sensor (750iL)	..	RH front of engine, on end of cylinder head	7100-15-2
B207	...	Engine Coolant Temperature Sensor (740i/L)	..	RH rear of engine	
B209	...	Engine Coolant Temperature Sensor (EML) (750iL)		RH rear of engine, on end of cylinder head	7100-15-2
B210	...	Temperature Switch	.....	Behind RH front shock tower, in E-Box	7100-14-3
B220	...	Cyl. 1-6 Cylinder Identification Sensor	.....	Under LH distributor cover, on spark plug wire number 6	7100-10-2
B221	...	Cyl. 7-12 Cylinder Identification Sensor	.....	Under RH distributor cover, on spark plug wire number 12	7100-04-3
B222	...	Cyl. 1-6 Crankshaft Position/RPM Sensor	.....	Lower LH center front of engine, below B223 Cyl. 7-12 Crankshaft Position RPM Sensor	7100-04-3
B223	...	Cyl. 7-12 Crankshaft Position/RPM Sensor	...	LH center front of engine, near top radiator hose engine inlet	7100-07-2
B224	...	Cyl. 1-6 Engine Intake Air Temperature Sensor	.....	LH rear of engine, on end of cylinder head	7100-02-3



# COMPONENT LOCATION CHART

## COMPONENT

PAGE – FIGURE

B225	... Cyl. 7-12 Engine Intake Air Temperature Sensor	RH rear of engine, on end of cylinder head	7100-15-2
B226	... Cyl. 1-6 Mass Air Flow Sensor	LH front of engine, on air intake assembly	7100-05-1
B227	... Cyl. 7-12 Mass Air Flow Sensor	RH front of engine, on air intake assembly	7100-09-3
B228	... Engine Coolant Temperature Sensor (DME)	RH rear of engine, on end of cylinder head	7100-15-2
B301	... Cyl. 1-6 Heated Oxygen Sensor	Below center of car, in LH top of catalytic converter	7100-17-2
B302	... Cyl. 7-12 Heated Oxygen Sensor	Below center of car, in RH top of catalytic converter	7100-17-2
B414	... Automatic Air Recirculation Sensor	Center console	
B6201	.. Camshaft Position Sensor	RH front of engine	7100-09-2
B6203	.. Crankshaft Position/RPM Sensor	Top RH side of engine	
B6206	.. Mass Air Flow Sensor	RH front of engine	7100-09-2
B6210	.. Cyl. 1-4 Heated Oxygen Sensor	Below car, in exhaust pipe	
B6215	.. Intake Air Temperature Sensor	Front of engine compartment	7100-08-3
B6220	.. Cyl. 5-8 Heated Oxygen Sensor	Below car, in exhaust pipe	
B6230	.. Oil Level Switch	Under front of car, on bottom of oil pan	
B6231	.. Oil Pressure Switch	LH front of engine	
B6235	.. Temperature Switch	Behind RH front shock tower, in E-Box	
B6236	.. Engine Coolant Temperature Sensor	RH rear of engine	
B6241	.. Cyl. 1-2 Knock Sensor	Top RH side of engine	
B6242	.. Cyl. 3-4 Knock Sensor	Top RH side of engine	
B6243	.. Cyl. 5-6 Knock Sensor	Top LH side of engine	
B6244	.. Cyl. 7-8 Knock Sensor	Top LH side of engine	
B9508	.. Pressure Switch	RH front corner of engine compartment	





## COMPONENT LOCATION CHART

COMPONENT		PAGE – FIGURE	
C100	Contact Ring	On steering wheel base, in front of Driver's Air Bag Generator	7100-24-2
C900	Suppression Filter	In RH "C" pillar	7100-43-2
D100	Data Link Connector (750iL)	LH rear of engine compartment, right of shock tower	7100-02-2
D100	Data Link Connector (740i/L)	RH rear of engine compartment, near E-Box	7100-14-1
E48	Door Lock Heater	In driver's door, at key lock assembly	
E51	Left Washer Jet Heater	LH side of engine compartment hood, under cover	7100-07-3
E52	Right Washer Jet Heater	RH side of engine compartment hood, under cover	7100-07-3
E56	Driver's Seatback Heater	In driver's seatback	7100-37-1
E57	Driver's Seat Heater	In driver's seat	7100-36-1
E58	Passenger's Seat Heater	In passenger's seat	7100-37-3
E59	Passenger's Seatback Heater	In passenger's seatback	7100-38-1
E65	Left Rear Seatback Heater	In LH rear seatback	
E66	Left Rear Seat Heater	In LH rear seat	
E67	Right Rear Seat Heater	In RH rear seat	
E68	Right Rear Seatback Heater	In RH rear seatback	
G1	Battery	Below RH side of rear seat	
G2	Alternator	LH side of engine compartment	
G5	Driver's Air Bag Generator	In center of steering wheel	7100-24-2
G6	Passenger's Air Bag Generator I	Behind RH side of dash	
G7	Passenger's Air Bag Generator II	Behind RH side of dash	
G6430	Starter Junction Point (740i/L)	Top LH rear of engine compartment	
G6430	Starter Junction Point (750iL)	Top LH rear of engine compartment	7100-02-2
G6509	Generator I	Lower LH front of engine	7100-04-3



# COMPONENT LOCATION CHART

## COMPONENT

PAGE – FIGURE

H1	Antitheft Horn (DWA)	Below RH side of fresh air cowl	
H2	Left Horn	Front of car, behind grille	7100-06-2
H3	Right Horn	Front of car, behind grille	7100-06-2
H10	Chime Module	Below LH side of dash, left of steering column, mounted on hush panel	7100-20-3
H42	Left Mid-high Range Speaker	In upper LH front door	
H43	Right Mid-high Range Speaker	In upper RH front door	
H45	Right Rear Speaker	Under rear window shelf	
H46	Left Rear Speaker	Under rear window shelf	
H50	Right Front High Range Speaker	In upper RH front door	
H51	Right Front Low Range Speaker	Behind RH footwell speaker grille	
H52	Right Rear Low Range Speaker	Under rear window shelf	
H53	Right Rear High Range Speaker	Under rear window shelf	
H54	Right Front Midrange Speaker	In upper LH front door	
H55	Left Front Midrange Speaker	In upper LH front door	
H56	Left Rear High Range Speaker	Under rear window shelf	
H57	Left Rear Low Range Speaker	Under rear window shelf	
H58	Left Front Low Range Speaker	Behind LH footwell speaker grille	
H59	Left Front High Range Speaker	In upper LH front door	
K1	Starter Relay	LH rear of engine compartment, in Front Power Distribution Box	7100-01-1
K2	Horn Relay	LH rear of engine compartment, in Front Power Distribution Box	7100-01-2
K3	Unloader Relay, KLR	LH rear of engine compartment, in Front Power Distribution Box	7100-01-1
K4	Blower Relay	LH rear of engine compartment, in Front Power Distribution Box	7100-01-1
K8	Auxiliary Water Pump Relay	LH rear of engine compartment, in Front Power Distribution Box	7100-00-3



## COMPONENT LOCATION CHART

COMPONENT		PAGE – FIGURE
K9	Unloader Relay, KL 15	LH rear of engine compartment, in Front Power Distribution Box 7100-00-3
K11	Wiper Relay	Below LH side of rear seat, in Rear Power Distribution Box 7100-38-3
K13	Rear Window Defogger Relay	Below LH side of rear seat, in Rear Power Distribution Box 7100-38-2
K15	Electric Power Protection Relay	Below LH side of rear seat in Rear Power Distribution Box 7100-38-3
K16	Hazard Flasher Relay	LH rear of engine compartment, in Front Power Distribution Box 7100-01-2
K17	Rear Seat Heating Relay	Behind LH side of rear seat, in Rear Power Distribution Box
K19	Compressor Control Relay	LH rear of engine compartment, in Front Power Distribution Box 7100-00-3
K21	Normal Speed Relay	LH side of engine compartment, front of shock tower, in Auxiliary Relay Box 1 7100-04-1
K22	High Speed Relay	LH side of engine compartment, front of shock tower, in Auxiliary Relay Box 1 7100-04-1
K25	Right Park Light/License Plate Light Relay	Below LH side of dash, behind kick panel
K26	Left Park Light Relay	Below LH side of dash, behind kick panel
K27	Left Rear Seat Heating/Position Relay	Below LH side of rear seat, on Rear Power Distribution Box 7100-38-3
K28	Right Rear Seat Heating/Position Relay	Below LH side of rear seat, on Rear Power Distribution Box 7100-38-3
K33	Air Conditioning Relay	LH side of engine compartment, front of shock tower, in Auxiliary Relay Box 1 7100-04-1
K61	Unloader Relay, KL61	LH rear of engine compartment, in Front Power Distribution Box 7100-01-1
K67	EDC Relay	RH side of luggage compartment
K79	Fog Light Relay	Below LH side of dash
K87	Steering Column Adjustment Relay	Behind LH side of dash
K91	On-board Computer Horn Relay	Below LH side of rear seat, ahead of Rear Power Distribution Box 7100-39-2
K210	Cyl. 1-6 Fuel Pump Relay	Front of RH front shock tower, in Auxiliary Relay Box 2 7100-11-1
K211	Cyl. 7-12 Fuel Pump Relay	Front of RH front shock tower, in Auxiliary Relay Box 2 7100-11-1
K212	Cyl. 1-6 Engine Control Module Relay	Front of RH front shock tower, in Auxiliary Relay Box 2 7100-11-1
K213	Cyl. 7-12 Engine Control Module Relay	Front of RH front shock tower, in Auxiliary Relay Box 2 7100-11-1



# COMPONENT LOCATION CHART

## COMPONENT

PAGE – FIGURE

K6300 ..	Engine Control Module Relay .....	RH rear of engine compartment, In E-Box	
K6301 ..	Cyl. 1-6 Fuel Pump Relay .....	RH rear of engine compartment, In E-Box	
K6303 ..	Oxygen Sensor Relay .....	RH rear of engine compartment, In E-Box	
M1 .....	Starter (740i/L) .....	Lower rear of engine .....	7100-11-1
M1 .....	Starter (750iL) .....	Lower RH rear of engine, below intake manifold	
M2 .....	Fuel Pump .....	Below luggage compartment, thru RH access panel, right of spare tire .....	7100-45-1
M3 .....	Wiper Motor .....	Behind LH side of fresh air cowl .....	7100-00-1
M4 .....	Washer Pump (750iL) .....	RH front of engine compartment, on bottom washer fluid reservoir .....	7100-09-1
M4 .....	Washer Pump (740i/L) .....	RH front of engine compartment, on washer fluid reservoir	
M7 .....	Headlight/Fog Light Washer Pump (750iL) ....	RH front of engine compartment, on bottom washer fluid reservoir .....	7100-09-1
M7 .....	Headlight/Fog Light Washer Pump (740i/L) ...	LH front of engine compartment, on washer fluid reservoir	
M9 .....	Auxiliary Fan Motor .....	Center front of car, forward of radiator .....	7100-06-3
M11 ....	Fuel Pump .....	Below luggage compartment, right of spare tire, in fuel tank	
M12 ....	Driver's Door Lock Motor .....	In top rear of driver's door .....	7100-33-1
M13 ....	Passenger's Door Lock Motor .....	In top rear of passenger's door .....	7100-33-1
M14 ....	Right Rear Door Lock Motor .....	In rear of RH rear door .....	7100-34-1
M15 ....	Left Rear Door Lock Motor .....	Top rear of LH rear door .....	7100-34-1
M16 ....	Gas Filler Lock Motor .....	RH side of luggage compartment, behind wheel well .....	7100-45-2
M17 ....	Trunk Lock Motor .....	Center rear of luggage compartment, right of lid lock assembly .....	7100-45-3
M20 ....	Left Rear Window Motor .....	In lower front of LH rear door .....	7100-34-1
M21 ....	Driver's Window Motor .....	In lower front of driver's door .....	7100-33-1
M22 ....	Right Rear Window Motor .....	In lower front of RH rear door .....	7100-34-1
M23 ....	Passenger's Window Motor .....	In lower front of passenger's door .....	7100-33-1



## COMPONENT LOCATION CHART

COMPONENT		PAGE – FIGURE	
M24	Sunroof Motor	In center of windshield header, behind rear view mirror	7100-29-3
M25	Cruise Control Actuator (Tempomat)	LH side of engine compartment, ahead of shock tower	
M26	Rear Left Seat Movement Motor	Underside of LH seat	7100-39-3
M27	Left Rear Headrest Motor	In LH rear headrest assembly	7100-43-1
M28	Right Rear Headrest Motor	In RH rear headrest assembly	7100-43-1
M29	Rear Left Seat Movement Motor	Underside of RH rear seat	7100-39-3
M30	Blower Motor	Below center of fresh air cowl, behind coolant expansion tank support panel	
M31	Left Footwell Flap Motor	Below LH side of dash, on LH rear of IHKA plenum	7100-25-2
M32	Right Footwell Flap Motor	Below RH side of dash, on RH side of IHKA plenum	7100-30-3
M33	Right Ventilation Flap Motor	Below RH side of dash, on RH side of IHKA plenum	7100-30-3
M34	Right Mixing Flap Motor	Behind center of dash, right of N9 radio	7100-27-3
M35	Defroster Flap Motor	Below LH side of dash, on lower LH side of IHKA plenum	7100-26-1
M36	Fresh Air Flap Motor	Below LH side of dash, on LH front of IHKA plenum	7100-25-3
M37	Water Pump	LH rear of engine compartment, on engine bulkhead	7100-00-2
M38	Left Ventilation Flap Motor	Below LH side of dash, on LH side of IHKA plenum	7100-25-3
M39	Left Mixing Flap Motor	Behind center of dash, left of N9 Radio	7100-26-2
M40	Recirculation Flap Motor	Below LH side of dash, on LH front of IHKA plenum	7100-25-3
M41	Rear Compartment Flap Motor	Below LH front of center console, on lower rear of IHKA plenum	7100-25-2
M50	Driver's Seat Cushion Tilt Motor	Under LH side of driver's seat	7100-36-1
M51	Driver's Seat Movement Motor	Under RH side of driver's seat	7100-36-1
M52	Driver's Seat Height Motor	Under front of driver's seat	7100-34-3
M53	Driver's Seatback Recliner Motor	Under front of driver's seat	7100-34-3
M54	Driver's Headrest Motor	In top RH corner of driver's seatback	7100-36-3



# COMPONENT LOCATION CHART

## COMPONENT

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M55	Driver's Seat Lumbar Support Motor	In lower RH corner of driver's seatback	7100-36-3
M56	Passenger's Seat Lumbar Support Motor	In lower RH corner of passenger's seatback	
M57	Passenger's Seat Headrest Motor	In top RH corner of passenger's seatback	7100-38-1
M58	Passenger's Seatback Recliner Motor	Under front of passenger's seat	7100-37-2
M59	Passenger's Seat Height Motor	Under front of passenger's seat	7100-37-2
M60	Passenger's Seat Movement Motor	Under RH side of passenger's seat	7100-37-3
M61	Passenger's Seat Cushion Tilt Motor	Under LH side of passenger's seat	7100-37-3
M74	Sun Blind Motor	Back of rear window shelf	
M79	Soft Close Trunk Lid Motor Assembly	RH side of luggage compartment	
M82	Steering Column Length Adjust Motor	LH side of steering column support	7100-23-1
M93	Throttle Position Motor (ADS)	LH front corner of engine compartment	7100-04-2
M201	E-Box Fan	RH rear of engine compartment, in E-Box, below modules	7100-15-1
M202	Cyl. 1-6 Throttle Body (EML)	Top LH side of engine, on throttle body	7100-05-1
M203	Cyl. 7-12 Throttle Body (EML)	Top RH front of engine, on throttle body	7100-09-3
M6506	E-Box Fan	RH rear of engine compartment, in E-Box, below modules	7100-15-1
N2	Final Stage Unit	Ahead of IHKA plenum	7100-31-1
N4	On-Board Computer	Center of dash, right of N9 Radio	7100-26-3
N6	Headlight/Fog Light Cleaning System Module (SRA)	LH side of engine compartment, front of shock tower, in Auxiliary Relay Box 1	7100-04-1
N8	Antenna Amplifier AM/FM	In LH "C" pillar	7100-42-3
N12	Antitheft Module (Alpine)	Behind LH side of dash, left of steering column	
N17	Crash Control Module	LH rear of engine compartment, in Front Power Distribution Box	7100-01-2
N404	Diversity	In LH "C" pillar	



# COMPONENT LOCATION CHART

## COMPONENT

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N444	FM Amplifier HLO	In LH "C" pillar	
R1	Temperature Distribution Potentiometer	Above N9 Radio, in center dash IHKA outlets	7100-26-3
R5	Headrest Potentiometer	In top RH corner of driver's seatback, on M54 Driver's Headrest Motor	7100-36-3
R6	Seat Height Potentiometer	Under driver's seat, on M52 Driver's Seat Height Motor	7100-34-3
R7	Seatback Potentiometer	Under driver's seat, on M53 Driver's Recliner Motor	7100-34-3
R8	Seat Cushion Rear Height Potentiometer	Under driver's seat, on M50 Driver's Seat Movement Tilt Motor	7100-36-1
R9	Seat Cushion Movement Potentiometer	Under driver's seat, on M51 Driver's Seat Cushion Tilt Motor	7100-36-1
R10	Pedal Position Sensor	Below LH side of dash, RH side of brake pedal support	7100-23-2
R18	Steering Column Adjust Potentiometer	LH side of steering column support	7100-23-1
R6240	Resistor (740i/L)	RH rear of engine compartment, in harness channel, near E-Box	
R6252	Throttle Position Sensor	Front of engine compartment	7100-08-2
R6253	ASC Throttle Position Sensor	Front of engine compartment	7100-08-2
S2	Ignition Switch	Top RH side of steering column	7100-23-3
S3	Automatic Transmission Range Switch	Below center console, at base of gear selector	7100-28-1
S7	Combination Switch	Top of steering column	7100-23-3
S14	Driver's Door Jamb Switch	Ahead of LH rear door	
S19	Underhood Light Switch	LH front of engine compartment hood	7100-06-1
S20	Radio Antitheft Switch (DWA)	Behind center of dash, behind N9 Radio	7100-27-2
S21	Engine Hood Switch (DWA)	RH rear of engine compartment, RH side of E-Box	7100-13-2
S22	Battery Switch (DWA)	Below RH side of rear seat, near G1 Battery	7100-42-2
S23	Trunk Lock Switch (DWA)	Center rear of luggage compartment, center of rear panel, below latch	7100-45-3
S24	Rear Seat Switch (DWA)	Below RH side of rear seat, right of G1 Battery	7100-42-2
S27	Inertia Switch	Below LH side of rear seat, right of Rear Power Distribution Box	7100-39-1



# COMPONENT LOCATION CHART

COMPONENT	PAGE – FIGURE
S29 ..... Brake Light Switch ..... Below LH side of dash, on brake pedal Support .....	7100-21-2
S31 ..... Park Brake Switch ..... Below center console, on rear of park brake lever .....	7100-28-3
S32 ..... Clutch Switch ..... Below LH side of dash, top of clutch pedal support .....	7100-22-2
S36 ..... Temperature Switch ..... Top RH side of radiator .....	7100-08-1
S37 ..... Glove Box Light Switch ..... RH side of dash, above glove box .....	7100-30-2
S39 ..... Sunroof Position Switch ..... In center of windshield header, behind M24 Sunroof Motor .....	7100-29-3
S43 ..... Driver's Window Limit Switch ..... In center front of driver's door .....	7100-33-1
S44 ..... Passenger's Window Limit Switch ..... In center front of passenger's door .....	7100-33-1
S45 ..... Left Rear Window Limit Switch ..... In center front of LH rear door .....	7100-34-1
S46 ..... Right Rear Window Limit Switch ..... In center front of RH rear door .....	7100-34-1
S48 ..... Driver's Door Handle Switch ..... Behind driver's door handle	
S50 ..... Driver's Memory Seat Adjustment Switch ..... In rear of console	
S52 ..... Driver's Seat Lumbar Switch ..... In rear of console	
S57 ..... Memory Seat Mirrors Switch ..... In rear of console	
S58 ..... Driver's Seat Belt Switch ..... In driver's seat belt buckle assembly	
S59 ..... Passenger's Seat Belt Switch ..... In RH front seat belt buckle	
S61 ..... Trunk Lid Switch ..... In center rear of trunk lid, near trunk lock .....	7100-46-1
S63 ..... Engine Coolant Level Switch ..... Center rear of engine compartment, top of coolant reservoir	
S64 ..... Washer Fluid Level Switch (750iL) ..... RH front of engine compartment, on lower front of top washer fluid reservoir .....	7100-09-3
S64 ..... Washer Fluid Level Switch (740i/L) ..... RH front of engine compartment, on washer fluid reservoir	
S65 ..... Power Steering Fluid Level Switch ..... LH side of engine compartment, in power steering fluid reservoir .....	7100-03-1
S71 ..... Left Front Impact Sensor ..... Ahead of LH front shock tower, top of wheel well	
S72 ..... Right Front Impact Sensor ..... Above of RH front shock tower, top of wheel well	





## COMPONENT LOCATION CHART

COMPONENT		PAGE – FIGURE
S107	Left Rear Seat Belt Contact	In LH rear of LH rear seat, part of seat belt buckle assembly 7100-40-1
S108	Right Rear Seat Belt Contact	In RH rear of RH rear seat, part of seat buckle assembly 7100-40-1
S110	Sun Blind Switch	Rear of center console
S300	Program Switch	Center console
S302	Back-Up Switch	Top RH side of transmission
S8503	Program Switch	On center console
S8507	Kickdown Switch	Underneath accelerator pedal 7100-25-1
S8524	Back-Up Light Switch	RH side of transmission 7100-16-3
T201A	Cyl. 1-6 Ignition Coil	LH front of engine compartment, behind air cleaner assembly 7100-09-3
T202A	Cyl. 7-12 Ignition Coil	RH front of engine compartment, behind air cleaner assembly 7100-05-1
T6151	Cyl. 1 Ignition Coil	Top RH side of engine, above cylinder 1 7100-12-3
T6152	Cyl. 2 Ignition Coil	Top RH side of engine, above cylinder 2 7100-12-3
T6153	Cyl. 3 Ignition Coil	Top RH side of engine, above cylinder 3 7100-12-3
T6154	Cyl. 4 Ignition Coil	Top RH side of engine, above cylinder 4 7100-12-3
T6155	Cyl. 5 Ignition Coil	Top LH side of engine, above cylinder 5
T6156	Cyl. 6 Ignition Coil	Top LH side of engine, above cylinder 6
T6157	Cyl. 7 Ignition Coil	Top LH side of engine, above cylinder 7
T6158	Cyl. 8 Ignition Coil	Top LH side of engine, above cylinder 8
U4	Telephone Handset	Center rear of rear console
V4	Daytime Running Lights Coding Diode	In front of dash, near light switch
X779	Charging Socket	In LH side of glove box 7100-30-1
Y1	ABS Hydraulic Unit (740i/L)	LH side of engine compartment, near shock tower
Y1	ABS Hydraulic Unit (750iL)	LH front corner of engine compartment, behind headlight 7100-05-1



# COMPONENT LOCATION CHART

## COMPONENT

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Y2	.....	Air Conditioning Compressor (740i/L)	.....	Lower RH front of engine	
Y3	.....	Air Conditioning Compressor	.....	Lower RH front of engine	7100-10-2
Y4	.....	Water Valve assembly	.....	LH rear of engine compartment, on engine bulkhead	7100-00-2
Y9	.....	Driver's Side Memory Mirror	.....	In upper LH front of door	
Y10	.....	Passenger's Side Memory Mirror	.....	In upper RH front door	
Y16	.....	Pressure Sensor/Plunger	.....	LH center of engine compartment, near shock tower	
Y201	.....	Cyl. 1 Fuel Injection Valve	.....	Top RH front of engine, on intake manifold	7100-12-2
Y202	.....	Cyl. 2 Fuel Injection Valve	.....	Top RH front of engine, on intake manifold	7100-12-2
Y203	.....	Cyl. 3 Fuel Injection Valve	.....	Top RH side of engine, on intake manifold	7100-12-2
Y204	.....	Cyl. 4 Fuel Injection Valve	.....	Top RH side of engine, on intake manifold	7100-12-2
Y205	.....	Cyl. 5 Fuel Injection Valve	.....	Top RH rear of engine, on intake manifold	7100-12-2
Y206	.....	Cyl. 6 Fuel Injection Valve	.....	Top RH rear of engine, on intake manifold	7100-12-2
Y207	.....	Cyl. 7 Fuel Injection Valve	.....	Top LH front of engine, on intake manifold	7100-03-2
Y208	.....	Cyl. 8 Fuel Injection Valve	.....	Top LH front of engine, on intake manifold	7100-03-2
Y209	.....	Cyl. 9 Fuel Injection Valve	.....	Top LH side of engine, on intake manifold	7100-03-2
Y210	.....	Cyl. 10 Fuel Injection Valve	.....	Top LH side of engine, on intake manifold	7100-03-2
Y211	.....	Cyl. 11 Fuel Injection Valve	.....	Top LH rear of engine, on intake manifold	7100-03-2
Y212	.....	Cyl. 12 Fuel Injection Valve	.....	Top LH rear of engine, on intake manifold	7100-03-2
Y221	.....	Cyl. 1-6 Evaporative Emission Valve	.....	RH front of engine compartment, below air cleaner assembly	7100-10-1
Y222	.....	Cyl. 7-12 Evaporative Emission Valve	.....	RH front of engine compartment, below air cleaner assembly	7100-10-1
Y300	.....	Transmission Valve Unit	.....	LH rear side of transmission	
Y401	.....	Left Front EDC Motor	.....	On LH front shock	
Y402	.....	Right Front EDC Motor	.....	On RH front shock	



# COMPONENT LOCATION CHART

## COMPONENT

PAGE – FIGURE

Y403	Left Rear EDC Motor	On LH rear shock	
Y404	Right Rear EDC Motor	On RH rear shock	
Y6101	Cyl. 1 Fuel Injection Valve	Top RH side of engine, below fuel rail	7100-11-3
Y6102	Cyl. 2 Fuel Injection Valve	Top RH side of engine, below fuel rail	7100-12-1
Y6103	Cyl. 3 Fuel Injection Valve	Top RH side of engine, below fuel rail	7100-12-1
Y6104	Cyl. 4 Fuel Injection Valve	Top RH side of engine, below fuel rail	7100-12-1
Y6105	Cyl. 5 Fuel Injection Valve	Top LH side of engine, below fuel rail	7100-03-3
Y6106	Cyl. 6 Fuel Injection Valve	Top LH side of engine, below fuel rail	7100-03-3
Y6107	Cyl. 7 Fuel Injection Valve	Top LH side of engine, below fuel rail	
Y6108	Cyl. 8 Fuel Injection Valve	Top LH side of engine, below fuel rail	
Y6120	Evaporative Emission Valve	RH front of engine compartment	
Y6130	Idle Speed Control Valve	Front of engine compartment	7100-08-3
Y8505w	Transmission Gear Shift Unit	Below center of car, in transmission	
Y8522	Shift Lock	Below center of console, near gear selector	
X0	B+ Junction Point	LH rear corner of engine compartment , on Front Power Distribution Box	
X1.0	Junction Post	Behind side of dash, at grommet near top of driver's footrest	7100-21-1
X1.1	Junction Post	LH rear corner of engine compartment, on Front Power Distribution Box	7100-01-3
X1.2	Junction Post	LH rear corner of engine compartment, on Front Power Distribution Box	7100-01-3
X11	Connector (55 pins)	Rear RH side of engine compartment, in E-Box	
X11	Connector (35 pins)	In E-Box	
X12	Connector (35 pins)	Rear LH side of engine compartment, in Front Power Distribution Box	
X13	Connector (30 pins)	Below driver's footrest, near LH kick panel	7100-21-1
X14	Connector (30 pins)	Below driver's footrest, near LH kick panel	7100-21-1



# COMPONENT LOCATION CHART

## COMPONENT

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X15	Connector (30 pins)	Below left side of dash , on LH side of connector bracket	7100-21-2
X16	Connector (26 pins)	Behind top LH side of dash, on A2 Instrument Cluster (Tan)	7100-24-3
X17	Connector (6 pins)	Behind top LH side of dash, on A2 Instrument Cluster (Brown)	7100-24-3
X18	Connector (26 pins)	LH rear side of engine compartment, on A4 Check Control Module (Blue)	
X19	Connector (26 pins)	LH rear side of engine compartment, on A4 Check Control Module (Green)	
X20	Connector (25 pins) (750iL)	LH rear of engine compartment, near Front Power Distribution Box	7100-02-2
X20	Connector (25 pins) (740i/L)	Top RH side of engine	7100-12-1
X21	Connector (25 pins) (750iL)	LH rear of engine compartment, near Front Power Distribution Box	7100-02-2
X22	Connector (26 pins)	Rear RH side of engine compartment, in E-Box	
X31	Connector (12 pins)	LH side of engine compartment	
X32	Connector (12 pins)	Below LH side of dash, on RH side of connector bracket, to S7 Combination Switch	7100-22-1
X33	Connector (12 pins)	Below LH side of dash, on RH side of connector bracket, to S2 Ignition Switch	7100-22-1
X34	Connector (12 pins)	Below LH side of dash, on LH side of connector bracket	7100-21-2
X36	Connector (21 pins)	Below LH side of dash, on LH side of connector bracket	7100-21-2
X50	Connector (9 pins)	LH side of engine compartment, front of shock tower, in Auxiliary Relay Box 1	
X52	Connector (9 pins)	LH side of engine compartment, front of shock tower, in Auxiliary Relay Box 1	
X69	Connector (8 pins) (750iL)	Behind RH front shock tower, in E-Box	7100-14-3
X70	Connector (8 pins)	LH side of engine compartment, ahead of LH side shock tower, RH side of differential	
X72	Connector (8 pins) (750iL)	Below LH side of dash, on RH side of connector bracket, to S11 Cruise Control Switch (EML)	7100-22-1
X72	Connector (8 pins) (740i/L)	Below LH side of dash, on RH side of connector bracket, to S28 Cruise Control Switch (Tempomat)	7100-22-1



# COMPONENT LOCATION CHART

## COMPONENT

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X73	Connector (8 pins)	Below LH side of dash, RH side of steering column, to R10 Pedal Position Sensor	7100-23-2
X74	Connector (12 pins)	Below LH side of dash, above dash panel grommet, on A12 Supplemental Restraint System Control Module	7100-22-3
X75	Connector (12 pins)	Below LH side of dash, above dash panel grommet, on A12 Supplemental Restraint System Control Module	7100-22-3
X78	Connector (4 pins)	On brake pedal	
X81	Connector (3 pins)	Ahead of LH front shock tower, to S71 Left Front Impact Sensor	
X82	Connector (3 pins)	Lower center front of car, on lower LH side of M9 Auxiliary Fan Motor	7100-06-3
X83	Connector (3 pins)	Inside top of LH kick panel, on A17 Servonic Control Module (Yellow)	7100-20-1
X84	Connector (3 pins)	Inside top of LH kick panel, on A17 Servonic Control Module (Yellow)	7100-20-1
X86	Connector (2 pins)	Ahead of RH front shock tower, to S72 Right Front Impact Sensor	
X95	Connector (3 pins) (750iL)	RH front of engine compartment, to Y3 Air Conditioning Compressor	7100-09-1
X95	Connector (3 pins) (740i/L)	RH front of engine compartment, to Y2 Air Conditioning Compressor	
X96	Connector (3 pins)	Top LH rear of engine compartment	7100-02-3
X105	Connector (2 pins)	LH rear of engine compartment hood, to E51 Left Washer Jet Heater	7100-07-3
X106	Connector (2 pins)	RH rear of engine compartment hood, to E52 Right Washer Jet Heater	7100-07-3
X113	Connector (2 pins)	RH rear of engine compartment, near base of shock tower, to B1 Right Front Speed Sensor (ABS)	
X114	Connector (2 pins)	LH rear of engine compartment, near base of shock tower, to B2 Left Front Speed Sensor (ABS)	
X118	Connector (2 pins)	Behind LH front wheel, above brake caliper, to B16 Left Front Brake Pad Sensor	7100-17-3
X119	Connector (2 pins)	LH side of engine compartment, to S65 Power Steering Fluid Level Switch	7100-03-1
X122	Connector (2 pins)	LH rear of engine compartment, on engine bulkhead, to M37 Water Pump	7100-00-2
X126	Connector (2 pins)	RH front of engine compartment, to B9508 Pressure Switch	



# COMPONENT LOCATION CHART

## COMPONENT

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X142	Connector (2 pins)	Below LH side of rear seat, behind Rear Power Distribution Box, to B4 Left Rear Speed Sensor (ABS)	7100-38-3
X143	Connector (2 pins)	Below LH side of rear seat, behind G1 Battery, to B3 Right Rear Speed Sensor (ABS)	7100-41-2
X159	Connector (10 pins)	Driver's Side Memory Mirror, Y9 driver's door	
X160	Connector (10 pins)	Passenger's Side Memory Mirror, Y10 passenger's door	
X162	Connector (1 pin)	Lower part of windshield, on E55 Front Window Defogger	
X165	Ground	Below LH side of dash, left of steering column	7100-21-3
X166	Ground (750iL)	LH front of engine compartment, ahead of wheel well	7100-05-3
X166A	Ground	LH front of engine compartment, ahead of wheel well	7100-05-3
X166B	Ground	LH front of engine compartment, ahead of wheel well	7100-05-3
X167	Ground	LH front of engine compartment, ahead of wheel well	7100-05-3
X168	Connector (1 pin)	Top of steering column, to S4 Horn Switch	7100-23-3
X172	Ground	LH Front front of engine compartment, ahead of wheel well	7100-05-3
X173	Ground	RH front of engine compartment, ahead of wheel well	
X251	Connector (30 pins)	Below LH side of dash, mounted on top center of connector bracket	7100-21-2
X252	Connector (26 pins)	Below LH side of rear seat	
X253	Connector (26 pins)	Below LH side of rear seat, on A1 General Module (Green)	
X254	Connector (26 pins)	Below LH side of rear seat, on A1 General Module (White)	
X255	Connector (26 pins)	Below LH side of rear seat, on A1 General Module (Yellow)	
X256	Connector (26 pins)	In front of passenger's door jamb, inside grommet	7100-32-3
X257	Connector (26 pins)	In front of driver's door jamb, inside grommet	7100-32-3
X258	Connector (20 pins)	Below LH side of rear seat, on A5 Relay Module (Black)	



## COMPONENT LOCATION CHART

### COMPONENT

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X259	Connector (20 pins)	Below LH side of rear seat, on A5 Relay Module (White)	
X260	Connector (21 pins)	Below RH side of rear seat, near G1 Battery	7100-41-2
X269	Accessory Connector	Below LH side of rear seat, near Rear Power Distribution Box	
X271	Connector (12 pins)	Behind top LH side of dash, on A2 Instrument Cluster (Gray)	7100-24-3
X272	Connector (12 pins)	Below LH side of rear seat, on Rear Power Distribution Box	7100-38-3
X273	Connector (12 pins)	In front of LH rear door jamb, inside grommet	7100-33-3
X274	Connector (12 pins)	In front of RH rear door jamb, inside grommet	7100-33-3
X275	Connector (12 pins)	Below driver's seat, under carpet	7100-34-2
X277	Connector (10 pins)	In front of LH rear door jamb, inside grommet	7100-33-3
X278	Connector (10 pins)	In front of RH rear door jamb, inside grommet	7100-33-3
X279	Connector (12 pins)	Under passenger's seat	7100-37-3
X295	Connector (8 pins)	Below LH side of dash, on RH side of connector bracket, to S5 Wiper/Washer Switch	7100-22-1
X298	Connector (8 pins)	Behind LH luggage compartment trim panel, below lid hinge	7100-44-2
X299	Connector (6 pins)	Below LH side of rear seat, near Rear Power Distribution Box	7100-39-1
X316	Connector (6 pins)	Below center console, on S40 Front Console Window Switch assembly (White)	7100-28-3
X317	Connector (6 pins)	Below center console, on S40 Front Console Window Switch assembly (Black)	7100-28-3
X318	Connector (6 pins)	RH rear of luggage compartment, to E17 Right Rear Light Assembly	7100-44-3
X319	Connector (6 pins)	LH rear of luggage compartment, to E16 Left Rear Light Assembly	7100-44-3
X322	Connector (8 pins)	Below LH side of rear seat, on Rear Power Distribution Box	7100-38-3
X332	Connector (5 pins)	Below LH side of rear seat, on A1 General Module (Black)	
X336	Connector (4 pins)	In center of windshield header, to E34 Dome Light/Map Reading Assembly	7100-29-3
X337	Connector (8 pins)	Below LH side of rear seat, near Rear Power Distribution Box	7100-39-1



# COMPONENT LOCATION CHART

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X352	Connector (2 pins)	Ahead of LH rear door	
X355	Connector (3 pins)	On "C" pillar right, on dome light	
X357	Connector (1 pin)	On "C" pillar left, on reading light	
X364	Connector (1 pin)	On "C" pillar right, on reading light	
X379	Connector (1 pin)	In LH "C" pillar, on N8 Antenna Amplifier AM/FM	7100-42-3
X391	Connector (2 pins)	Below rear of center console	
X393	Connector (6 pins)	In LH rear side of luggage compartment	7100-44-3
X400	Connector (8 pins)	RH front of luggage compartment, near grommet	
X403	Connector (2 pins)	Inside LH kick panel, left of H58 Left Front Low Range Speaker	7100-20-1
X405	Connector (3 pins)	On LH front shock, to Y401 Left Front EDC Motor	
X406	Connector (3 pins)	On RH front shock, to Y402 Right Front EDC Motor	
X407	Connector (3 pins)	On LH rear shock, to Y403 Left Rear EDC Motor	
X408	Connector (3 pins)	On RH rear shock, to Y404 Right Rear EDC Motor	
X421	Connector (1 pin)	Lower part of windshield, on E55 Front Window Defogger	
X424	Connector (1 pin)	In LH "C" pillar, on N8 Antenna Amplifier AM/FM	7100-42-3
X490	Ground	Below LH side of dash, left of steering column	7100-21-3
X491	Ground	Below LH side of dash, left of steering column	7100-21-3
X492	Ground	Below LH side of rear seat, right of Rear Power Distribution Box	7100-39-1
X493	Ground	Below LH side of rear seat, right of Rear Power Distribution Box	7100-39-1
X494	Ground	Below RH side of rear seat, right of G1 Battery	7100-41-3
X497	Ground (Battery)	Ahead of RH side of rear seat, under carpet	7100-41-1
X498	Ground	Below RH side of rear seat, right of G1 Battery	7100-41-3
X501	Connector (26 pins)	Center of Dash, right of N9 Radio	





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X503 .... Connector (12 pins) .....	LH side of dash
X504 .... Connector (12 pins) .....	Fog Light Switch, S10
X506 .... Connector (12 pins) .....	Below center console, front of gear selector ..... 7100-28-1
X512 .... Connector (8 pins) .....	Above glove box ..... 7100-31-3
X518 .... Connector (4 pin) .....	Below LH side of dash, on H10 Chime Module (Black) ..... 7100-20-3
X519 .... Connector (4 pins) .....	Below RH side of dash, on connector bracket ..... 7100-31-2
X520 .... Connector (3 pins) .....	Below LH side of center console, near gear selector ..... 7100-28-1
X522 .... Connector (3 pins) .....	Below LH side of dash, on H10 Chime Module (White) ..... 7100-20-3
X526 .... Connector (8 pins) .....	Behind LH side of dash, left of steering column
X537 .... Connector (2 pins) .....	In upper LH front door
X538 .... Connector (2 pins) .....	In upper RH front door
X546 .... Connector (2 pins) .....	Below center of center console, LH side of manual gear selector ..... 7100-28-2
X547 .... Connector (2 pins) .....	Behind center of dash, right of N9 Radio, taped to harness
X554 .... Connector (1 pins) .....	Below front of center console ..... 7100-28-1
X601 .... Connector (26 pins) .....	Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (Yellow) ..... 7100-36-2
X602 .... Connector (26 pins) .....	Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (White) ..... 7100-35-3
X603 .... Connector (12 pins) .....	Under of LH front seat
X605 .... Connector (12 pins) .....	LH side of luggage compartment, on A18 HIFI Amplifier (Black) ..... 7100-44-2
X606 .... Connector (26 pins) .....	LH side of luggage compartment, on A18 HIFI Amplifier (Black) ..... 7100-44-2
X610 .... Connector (26 pins) .....	Ahead of IHKA plenum, on A11 Automatic Heating/AC Control Module (IHKA) (White) ..... 7100-26-1



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X611 .... Connector (26 pins) ..... Ahead of IHKA plenum, on A11 Automatic Heating/AC Control Module (IHKA) (Green) .....	7100-26-1
X612 .... Connector (26 pins) ..... Behind center of dash, on S26 Automatic Heating and Air Conditioning Switch (IHKA) (Blue) .....	7100-29-1
X613 .... Connector (26 pins) ..... Behind of IHKA plenum, on A11 Automatic Heating/AC Control Module (IHKA) (Blue) .....	7100-31-1
X614 .... Connector (26 pins) ..... Ahead of IHKA, on A11 Automatic/Heating/AC Control Module (IHKA) (Yellow) .....	7100-31-1
X621 .... Connector (10 pins) ..... In front of passenger's door jamb, inside grommet .....	7100-32-3
X622 .... Connector (10 pins) ..... In front of passenger's door jamb, inside grommet .....	7100-32-3
X623 .... Connector (10 pins) ..... In front of driver's door, to Y9 Driver's Side Memory Mirror	
X624 .... Connector (10 pins) ..... In front of passenger's door, to Y10 Passenger's Side Memory Mirror	
X626 .... Connector (12 pins) ..... Under driver's seat .....	7100-35-2
X626 .... Connector (12 pins) ..... Under driver's seat .....	7100-36-2
X627 .... Connector (8 pins) ..... In center of windshield header, to S39 Sunroof Position Switch and M24 Sun Roof Motor .....	7100-29-3
X634 .... Connector (6 pins) ..... Underside of RH rear seat .....	7100-39-3
X635 .... Connector (6 pins) ..... Underside of LH rear seat .....	7100-39-3
X638 .... Connector (6 pins) ..... Below luggage compartment, right of spare tire .....	7100-45-1
X648 .... Connector (6 pins) ..... Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (Black) .....	7100-36-2
X649 .... Connector (6 pins) ..... Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (White) .....	7100-36-2
X650 .... Connector (6 pins) ..... Memory Seat Mirrors Switch, S57	
X652 .... Connector (6 pins) ..... Driver's Seat Lumbar Switch, S52	



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X653 .... Connector (6 pins) ..... Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (Black) .....	7100-35-3
X654 .... Connector (6 pins) ..... Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (White) .....	7100-35-3
X655 .... Connector (6 pins) ..... Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (Blue) .....	7100-35-3
X656 .... Connector (6 pins) ..... Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (Green) .....	7100-35-3
X657 .... Connector (6 pins) ..... Under driver's seat, on A21z Seat/Mirror/Steering Column Memory Control Module (Brown) .....	7100-35-3
X659 .... Connector (6 pins) ..... Under passenger's seat, on S55 Passenger's Seat Lumbar Support Switch .....	7100-37-2
X672 .... Connector .....	In luggage compartment
X673 .... Connector (4 pins) .....	Center of rear seat, mounted on bottom of center rear armrest assembly .....
X674 .... Connector (4 pins) .....	Center of rear seat, mounted on bottom of center rear armrest assembly .....
X680 .... Connector (3 pins) .....	Under front of driver's seat .....
X681 .... Connector (3 pins) .....	Above glove box .....
X682 .... Connector (3 pins) .....	Behind center of dash, on S26 Automatic Heating and Air Conditioning Switch (IHKA) (White) .....
X684 .... Connector (3 pins) .....	In top rear of passenger's door, to S49 Passenger's Door Lock Switch (Black) ....
X685 .... Connector (3 pins) .....	In top rear of driver's door, to S49 Driver's Door Lock Switch (Black) .....
X686 .... Connector (3 pins) .....	Under driver's seat, on Seat Cushion Movement Potentiometer, R9
X687 .... Connector (3 pins) .....	Under driver's seat, on Seat Cushion Rear Height Potentiometer, R8
X689 .... Connector (3 pins) .....	In top RH corner of driver's seatback
X690 .... Connector (3 pins) .....	Under driver's seat, on Seatback Potentiometer, R7
X692 .... Connector (3 pins) .....	Behind center of dash, to R1 Temperature Distribution Potentiometer .....



# COMPONENT LOCATION CHART

## COMPONENT

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X693	Connector (3 pins)	Behind center of dash, on S26 Automatic Heating and Air Conditioning Switch (IHKA) (Black)	7100-29-1
X700	Connector (1 pin)	Behind RH footwell speaker grille	
X701	Connector (1 pin)	Behind LH footwell speaker grille	
X705	Connector (2 pins)	Below RH rear of car, near RH rear suspension frame attachment point	7100-19-1
X713	Connector (2 pins)	Behind RH rear wheel, above brake caliper, to B17 Right Rear Brake Pad Sensor	7100-18-3
X715	Connector (2 pins)	In center of LH rear door, to S45 Left Rear Window Limit Switch	7100-34-1
X716	Connector (2 pins)	In center of LH rear door	7100-34-1
X717	Connector (2 pins)	In center of LH rear door	7100-34-1
X721	Connector (2 pins)	In center of RH rear door, to S46 Right Rear Window Limit Switch	7100-34-1
X722	Connector (2 pins)	In center of RH rear door	7100-34-1
X723	Connector (2 pins)	In upper RH rear door	7100-34-1
X726	Connector (2 pins)	Under RH side of driver's seat, to M51 Driver's Seat Movement Motor	7100-35-2
X726	Connector (2 pins)	Under RH side of driver's seat, to M51 Driver's Seat Movement Motor	7100-36-2
X726	Connector (2 pins)	Under RH side of driver's seat, to M51 Driver's Seat Movement Motor	7100-47-3
X727	Connector (2 pins)	Under LH side of driver's seat, to M50 Driver's Seat Cushion Tilt Motor	7100-35-2
X728	Connector (2 pins)	Under front of driver's seat, to M52 Driver's Seat Height Motor	7100-34-3
X729	Connector (2 pins)	Under front of driver's seat, to M53 Driver's Seatback Recliner Motor	7100-34-3
X730	Connector (2 pins)	In center of driver's seatback, to M55 Driver's Seat Lumbar Support Motor	7100-36-3
X730	Connector (2 pins)	In center of driver's seatback, to M55 Driver's Seat Lumbar Support Motor	7100-47-3
X731	Connector (2 pins)	In center of driver's seatback, to M54 Driver's Headrest Motor	7100-36-3
X731	Connector (2 pins)	In center of driver's seatback, to M54 Driver's Headrest Motor	7100-47-3
X732	Connector (2 pins)	In center of driver's seatback, to M56 Driver's Seatback Heater	7100-37-1



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X732	Connector (2 pins) . . . . .	In center of driver's seatback, to M56 Driver's Seatback Heater . . . . . 7100-47-3
X733	Connector (2 pins) . . . . .	Under driver's seat, to M57 Driver's Seat Heater . . . . . 7100-35-1
X734	Connector (2 pins) . . . . .	Under RH side of passenger's seat, to M60 Passenger's Seat Movement Motor . . . 7100-37-3
X735	Connector (2 pins) . . . . .	Under LH side of passenger's seat, to M61 Driver's Seat Cushion Tilt Motor . . . . . 7100-37-2
X736	Connector (2 pins) . . . . .	Under front of passenger's seat, to M58 Passenger's Seatback Recliner Motor . . . 7100-37-2
X737	Connector (2 pins) . . . . .	Under front of passenger's seat, to M59 Passenger's Seat Height Motor . . . . . 7100-37-2
X738	Connector (2 pins) . . . . .	In center of passenger's seatback, to M57 Passenger's Headrest Motor . . . . . 7100-38-1
X739	Connector (2 pins) . . . . .	In center of passenger's seatback, to M56 Passenger's Seat Lumbar Support Motor
X740	Connector (2 pin) . . . . .	Under passenger's seat, to M58 Passenger's Seat Heater . . . . . 7100-37-3
X741	Connector (2 pins) . . . . .	In center of driver's seatback, to M59 Passenger's Seatback Heater . . . . . 7100-38-1
X742	Connector (2 pins) . . . . .	In top rear of passenger's door, to S49 Passenger's Door Lock Switch (Yellow) . . . 7100-33-2
X743	Connector (2 pins) . . . . .	In center of passenger's door, to S44 Passenger's Window Limit Switch . . . . . 7100-33-1
X746	Connector (2 pins) . . . . .	In upper RH front door
X747	Connector (2 pins) . . . . .	In top rear of driver's door, to S47 Driver's Door Lock Switch (Yellow) . . . . . 7100-33-2
X750	Connector (2 pins) . . . . .	In center of driver's door, to S43 Driver's Window Limit Switch . . . . . 7100-33-1
X751	Connector (2 pins) . . . . .	In top rear of driver's door, to E48 Door Lock Heater (White) . . . . . 7100-33-2
X752	Connector (2 pins) . . . . .	In top rear of driver's door, to S48 Driver's Door Handle Switch (White) . . . . . 7100-33-2
X753	Connector (2 pins) . . . . .	In upper LH front door
X760	Connector (1 pin) (Radio/HIFI, Ten Speaker System) . . . . .	RH front of trunk, on H53 Right Rear High Range Speaker
X760	Connector (1 pin) (Harmon Sound System) . . . . .	RH front of trunk
X762	Connector (1 pin) (Radio/HIFI, Ten Speaker System) . . . . .	LH front of trunk



# COMPONENT LOCATION CHART

## COMPONENT

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X762	Connector (1 pin) (Harmon Sound System)	LH front of trunk, on H56 Left Rear High Range Speaker	
X771	Connector (2 pins)	On lower LH side of IHKA plenum, to B14 Evaporator Temperature Sensor	7100-26-1
X778	Connector (2 pins)	Under driver's seat, to S58 Driver's Seat Belt Switch	7100-35-2
X781	Connector (2 pins)	Behind RH side of dash, to G6 Passenger's Air Bag Generator I	
X782	Connector (2 pins)	Behind RH side of dash, to G7 Passenger's Air Bag Generator II	
X783	Connector (2 pins)	Top of steering column, to C100 Contact Ring	7100-23-3
X784	Connector (12 pins)	Below LH side of dash, on A12 Supplemental Restraint System Control Module	7100-22-1
X790	Connector (2 pins)	Below LH side of rear seat, to E66 Left Rear Seat Heater	7100-40-1
X791	Connector (2 pins)	Below RH side of rear seat, to E67 Right Rear Seat Heater	7100-40-1
X792	Connector (2 pins)	In RH rear of LH rear seatback, to E65 Left Rear Seatback Heater	7100-40-2
X793	Connector (2 pins)	In LH rear of RH rear seatback, to E68 Right Rear Seatback Heater	7100-40-2
X794	Connector (2 pins)	In LH rear of LH rear seat, to S107 Left Rear Seat Belt Contact	7100-40-1
X795	Connector (2 pins)	Underside of LH rear seat, to M26 Left Rear Seat Movement Motor	7100-39-3
X796	Connector (2 pins)	In RH rear of RH rear seat, to S108 Right Rear Seat Belt Contact	7100-40-1
X797	Connector (2 pins)	Under side of RH rear seat, to M28 Right Rear Seat Movement Motor	7100-39-3
X798	Connector (2 pins)	In center of RH rear seatback, to M28 Right Rear Headrest Motor	7100-40-2
X798	Connector (2 pins)	In center of RH rear seatback, to M28 Right Rear Headrest Motor	7100-43-1
X799	Connector (2 pins)	In center of LH rear seatback, to M27 Left Rear Headrest Motor	7100-40-2
X799	Connector (2 pins)	In center of LH rear seatback, to M27 Left Rear Headrest Motor	7100-43-1
X814	Ground	Below RH side of rear seat, right of G1 Battery	7100-42-1
X818	Ground	Below LH side of dash, Left of steering column	7100-21-3
X848	Connector (2 pins)	Back of rear window shelf	
X915	Connector (12 pins)	Below rear seat	



## COMPONENT LOCATION CHART

### COMPONENT

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X922	Ground	Below RH side of rear seat, right of G1 Battery	7100-42-1
X944	Ground	LH side under rear seat	
X945	Connector (10 pins)	RH side of luggage compartment , on A413 Electronic Shock Absorber Control Module (EDC)	
X947	Connector (6 pins)	Center console	
X949	Connector (5 pins)	Back of rear window shelf	
X1001	Connector (4 Pins)	Right rear speaker, H45	
X1002	Connector (4 Pins)	Left rear speaker, H46	
X1010	Connector (2 Pins)	RH front of engine compartment, to B9508 Pressure Switch	
X1063	Connector (2 pins)	RH side of front bumper, top LH side of fog light	
X1380	Connector (1 pin)	Behind RH footwell speaker grille	
X1381	Connector (1 pin)	Behind LH footwell speaker grille	
X1404	Connector (4 pins)	Below center console to Phone Interface Box	
X1426	Connector (1 pin)	Below LH side of dash, on H10 Chime Module	7100-21-3
X1881	Connector (2 pins)	Inside driver's seat	7100-47-3
X1882	Connector (2 pins)	In center of passenger's seatback	7100-38-1
X2012	Connector (2 pins)	Center console	
X3210	Connector (26 pins)	Behind LH footwell speaker grille	
X3211	Connector (4 pins)	Behind LH footwell speaker grille	
X3212	Connector (4 pins)	Below LH side of dash, taped to harness	7100-21-3
X6000	Connector (88 pins)	In E-Box	
X6002	Data Link Connector (20 pins) (740i/L)	RH rear of engine compartment, near E-Box	7100-14-1
X6002	Data Link Connector (20 pins) (750iL)	LH rear of engine compartment, right of shock tower	7100-02-2



## COMPONENT LOCATION CHART

### COMPONENT

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X6003	.. Connector (8 pins) (750iL)	Front of RH front shock tower, in Auxiliary Relay Box 2	7100-11-2
X6004	.. Connector (55 pins)	In E-Box	
X6007	.. Connector (35 pins)	In E-Box	
X6010	.. Connector (88 pins)	In E-Box	
X6020	.. Connector (88 pins)	In E-Box	
X6030	.. Connector (18 pins)	RH rear of engine compartment, in E-Box	7100-13-3
X6097	.. Ground	Lower LH side of engine, near B205 Oil Level Sensor	7100-07-2
X6099	.. Connector (3 pins)	Rear of engine compartment	
X6201	.. Connector (3 pins)	Top RH front of engine, to B6201 Camshaft Position Sensor	
X6203	.. Connector (3 pins)	Top RH front of engine, to B6203 Camshaft Position/RPM Sensor	7100-12-3
X6210	.. Connector (4 pins) (750iL)	Under center of car, RH side of transmission, to B301 Cyl. 1-6 Heated Oxygen Sensor	7100-16-2
X6210	.. Connector (4 pins) (740i/L)	Below car, to B6210A Cyl. 1-4 Heated Oxygen Sensor	7100-16-1
X6211	.. Connector (3 pins)	Top center front of engine, below oil fill cap, to B220 Cyl. 1-6 Cylinder Identification Sensor	7100-10-3
X6212	.. Connector (3 pins)	Top center front of engine, below oil fill cap, to B220 Cyl. 1-6 Crankshaft Position/RPM Sensor	7100-10-3
X6216	.. Connector (7 pins)	LH front engine compartment	
X6220	.. Connector (4 pins) (740i/L)	Below car, to B6220A Cyl. 5-8 Heated Oxygen Sensor	7100-16-1
X6220	.. Connector (4 pins) (750iL)	Under center of car, RH side of transmission, to B302 Cyl. 7-12 Heated Oxygen Sensor	7100-16-2
X6221	.. Connector (3 pins)	Top center of engine, below oil fill cap, to B221 Cyl. 7-12 Camshaft Identification Sensor	7100-10-3
X6222	.. Connector (3 pins)	Top center of engine, below oil fill cap, to B223 Cyl. 7-12 Camshaft Position/RPM Sensor	7100-10-3





# COMPONENT LOCATION CHART

## COMPONENT

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X6226 .. Connector (7 pins) .....	RH front engine compartment	
X6230 .. Connector (3 pins) (740i/L) .....	RH front of engine, to B205 Oil Level Sensor	
X6230 .. Connector (3 pins) (750iL) .....	Lower LH front of engine, to B205 Oil Level Sensor .....	7100-07-2
X6231 .. Connector (2 pins) .....	Rear top engine	
X6241 .. Connector (3 pins) .....	Top RH side of engine, to B6241 Cyl. 1-2 Knock Sensor .....	7100-12-1
X6242 .. Connector (3 pins) .....	Top RH side of engine, to B6242 Cyl. 3-4 Knock Sensor .....	7100-12-1
X6243 .. Connector (3 pins) .....	Top LH side of engine, to B6243 Cyl. 5-6 Knock Sensor .....	7100-03-3
X6244 .. Connector (3 pins) .....	Top LH side of engine, to B6244 Cyl. 7-8 Knock Sensor .....	7100-03-3
X6310 .. Connector (9 pins) .....	Front of RH front shock tower, in Auxiliary Relay Box 2	
X6360 .. Connector (8 pins) .....	LH top of engine	
X6370 .. Connector (8 pins) .....	Top engine center	
X6400 .. B+ Junction Point (740i/L) .....	Behind RH front shock tower, in E-Box	
X6400 .. B+ Junction Point (750iL) .....	Front of RH front shock tower, in Auxiliary Relay Box 2 .....	7100-11-2
X6452 .. Ground (740i/L) .....	RH rear of engine compartment, on top LH front of E-Box .....	7100-14-1
X6452 .. Ground (750iL) .....	RH rear of engine compartment, on top LH front of E-Box .....	7100-13-1
X6453 .. Ground (750iL) .....	RH rear of engine compartment, on top LH front of E-Box .....	7100-13-1
X6453 .. Ground (740i/L) .....	RH rear of engine compartment, on top LH front of E-Box .....	7100-14-1
X6505 .. Connector (8 pins) .....	RH rear engine compartment.	
X6506 .. Connector (4 pins) (740i/L) .....	Behind RH front of shock tower, in E-Box, to M6506 E-Box Fan	
X6506 .. Connector (4 pins) (750iL) .....	Behind RH front of shock tower, in E-Box, to M201 E-Box Fan .....	7100-14-3
X6509 .. Cable Socket Alternator Terminal 30h .....	Front engine	
X6510 .. Cable Socket Starter Terminal 50 .....	LH side of engine compartment, below intake manifold	
X6511 .. Cable Socket Starter Terminal 30h .....	LH side of engine compartment, below intake manifold	



# COMPONENT LOCATION CHART

## COMPONENT

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X6512	.. Connector (1 pin)	..... LH engine	
X7151	.. Connector (1 pin)	..... RH front engine compartment	
X7509	.. Cable Socket Alternator Terminal D+	..... Front engine	
X7519	.. Connector (1pin)	..... RH front engine	
X8074	.. Connector (14 pins)	..... LH front of engine compartment, to A9019 CD changer	7100-44-1
X8075	.. Connector (13 pins)	..... Behind center of dash, on N9 Radio	7100-26-3
X8151	.. Connector (1 pin)	..... RH front engine compartment	
X8151	.. Connector (1 pin)	..... LH front engine compartment	
X8500	.. Connector (88 pins) (740i/L)	..... In E-Box (EGS)	
X8500	.. Connector (35 pins) (750iL)	..... Behind RH kick panel	
X8503	.. Connector (66 pins)	..... Below center console	
X8505	.. Connector (8 pins) (740i/L)	..... LH side of transmission , to Y8505w Transmission Gear Shift Unit	7100-17-1
X8505	.. Connector (8 pins) (750iL)	..... LH side of transmission , to Y300 Transmission Gear Shift Unit	
X8508	.. Ground	..... Below RH side of rear seat , right of G1 Battery	7100-42-1
X8524	.. Connector (2 pins)	..... Reversing Light Switch, S8524 on RH side of transmission	
X8575	.. Connector (2 pins)	..... Front of RH front shock tower, in Auxiliary Relay Box 2	7100-11-2
X8600	.. Connector (55 pins) (750iL)	..... Behind RH kick panel (AGS)	
X9503	.. Connector (12 pin) (CDN)	..... Behind LH side of dash	
X9504	.. Connector (12 pins) (CDN)	..... Below LH side of dash	
X9528	.. Connector	..... Not Available	
X9968	.. Connector (4 pins)	..... Inside top of LH kick panel, on A26 Lock-Sensor Control Module (Black)	7100-20-2
X9997	.. Connector (2 pin)	..... Inside steering wheel, on G5 Driver's Air Bag Generator	7100-24-2
X10094	.. Connector (2 pin)	..... LH front corner of engine compartment	



## COMPONENT LOCATION CHART

COMPONENT		PAGE – FIGURE
X10104	Connector (18 pins) . . . . .	RH rear of engine compartment, in E-Box . . . . . 7100-13-3
X10105	Connector (18 pins) . . . . .	RH rear of engine compartment, in E-Box . . . . . 7100-13-3
X10106	Connector (4 pins) . . . . .	LH side of engine compartment
X10107	Connector (4 pins) . . . . .	RH side of engine compartment
X10195	Connector (3 pins) . . . . .	Driver's Air Bag Generator, G5
X10218	Connector (4 pins) . . . . .	RH front seat
X13025	Connector (12 pins) . . . . .	Below LH side of dash
X13119	Connector (4 pins) . . . . .	Below LH side of dash, above dash panel grommet . . . . . 7100-22-3
X13139	Connector (10 pins) . . . . .	Center of windshield header, to A227 Electrochromic Mirror . . . . . 7100-29-2
X18024	Connector (6 pins) . . . . .	LH center of engine compartment, near shock tower, on Y16 Pressure Sensor/Plunger
X18025	Connector (4 pins) . . . . .	LH center of engine compartment, near shock tower, on Y16 Pressure Sensor/Plunger
X18025	Connector (12 pins) . . . . .	LH center of engine compartment, near shock tower, on Y16 Pressure Sensor/Plunger
X18029	Connector (4 pins) . . . . .	On steering column, to B40 Steering Angle Sender
X18093	Connector (3 pins) . . . . .	Top RH side of steering column, to S119 Steering Column Adjustment Switch . . . . . 7100-24-1
X18097	Connector (2 pins) . . . . .	LH side of steering column support, to M28 Steering Column Length Adjust Motor 7100-23-1
X18098	Connector (5 pins) . . . . .	Under driver's seat, on A21z Seat/Motor/Steering/Column Memory Control Module (Yellow) . . . . . 7100-35-3
X18126	Connector (17 pins) . . . . .	Behind center of dash, on N9 Radio . . . . . 7100-26-3
X18135	Connector (8 pins) . . . . .	Below RH side of dash
X18158	Connector (3 pins) . . . . .	In RH front seat belt buckle
X18170	Ground . . . . .	Below LH side of rear seat, near Rear Power Distribution Box
X18185	Connector (1 pin) (Radio/HIFI, Ten Speaker System) . . . . .	RH front of trunk, on H53 Right Rear High Range Speaker



# COMPONENT LOCATION CHART

## COMPONENT

PAGE -- FIGURE

- X18185 . Connector (1 pin) (Harmon Sound System) . . RH front of trunk
- X18187 . Connector (1 pin) (Harmon Sound System) . . LH front of trunk
- X18187 . Connector (1 pin) (Radio/HIFI,  
Ten Speaker System) . . . . . LH front of trunk, on H53 Right Rear High Range Speaker
- X18196 . Connector (10 pins) . . . . . Left Front High Range Speaker, H59
- X18198 . Connector (10 pins) . . . . . Right Front High Range Speaker, H50
- X18203 . Connector (4 pins) . . . . . Below RH side of rear seat
- X18204 . Connector (4 pins) . . . . . RH side of luggage compartment
- X18259 . Connector (10 pins) . . . . . Behind LH side of dash center
- X18260 . Connector (12 pins) . . . . . Behind LH side of dash, above dash panel grommet . . . . . 7100-22-3
- X18287 . Ground
- X18288 . Connector (15 pins) . . . . . RH side of luggage compartment
- X18319 . Connector (18 pins) . . . . . Underside of LH front seat
- X18320 . Connector (26 pins) . . . . . Underside of LH front seat
- X18321 . Connector (10 pins) . . . . . Underside of LH front seat
- X18322 . Connector (26 pins) . . . . . Underside of LH front seat
- X18323 . Connector (4 pins) . . . . . Underside of LH front seat
- X18501 . Connector (3 pins) . . . . . Below center console, to Phone Interface Box
- X18502 . Connector (8 pins) . . . . . Below center console, on Phone Interface Box
- X18503 . Connector (3 pins) . . . . . Below center console, to Phone Interface Box
- X18504 . Connector (2 pins) . . . . . Behind center of dash, near N9 Radio
- X18509 . Connector (8 pins) . . . . . Below center console, to Phone Interface Box
- X18729 . Connector (3 pins) . . . . . LH front of luggage compartment, to A9019 CD changer . . . . . 7100-44-1



# COMPONENT LOCATION CHART

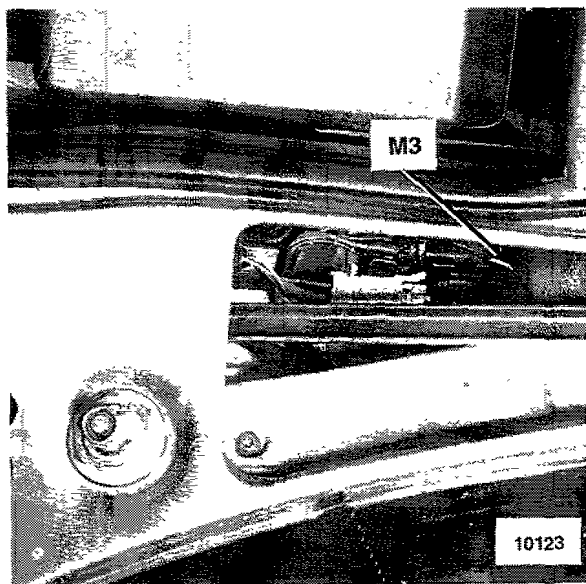
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## COMPONENT

PAGE – FIGURE

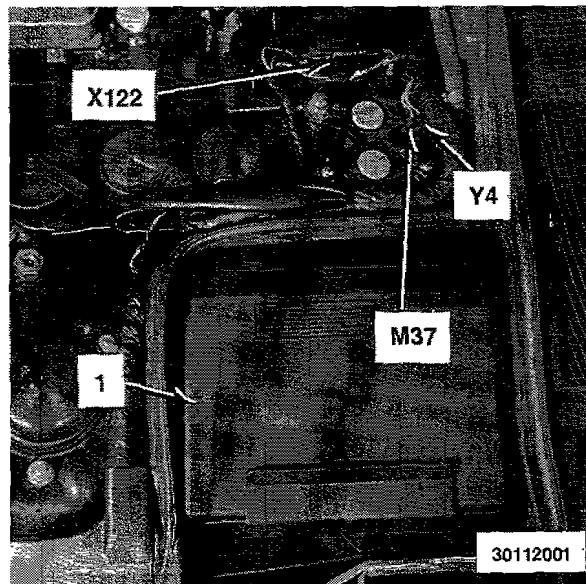
X18741 . Connector (4 pins) ..... Below center console

**BMW** **7** **COMPONENT LOCATION VIEWS**



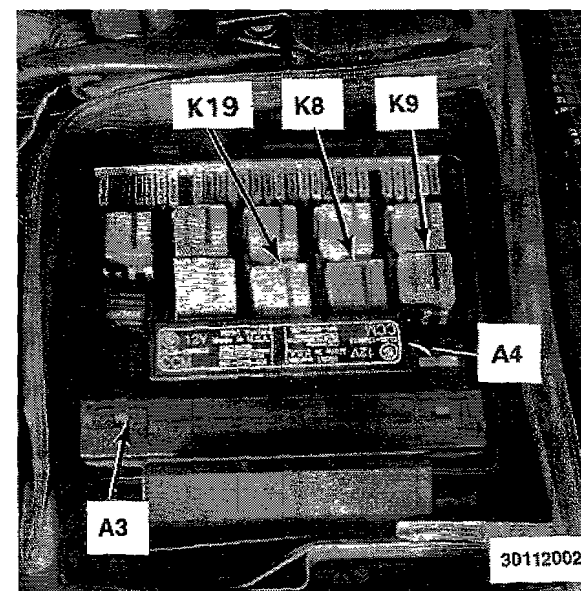
**Figure 1- Behind LH Side Of Fresh Air Cowl**

**M3 Wiper Motor**



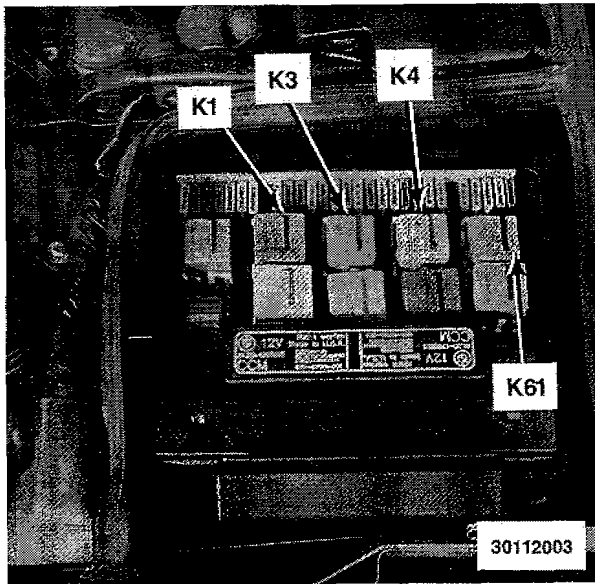
**Figure 2- LH Rear Of Engine Compartment (750iL Shown, 740i/L Similar)**

- 1 Front Power Distribution Box**
- M37 Water Pump**
- X122 Connector (2 pins) SW**
- Y4 Water Valve Assembly**



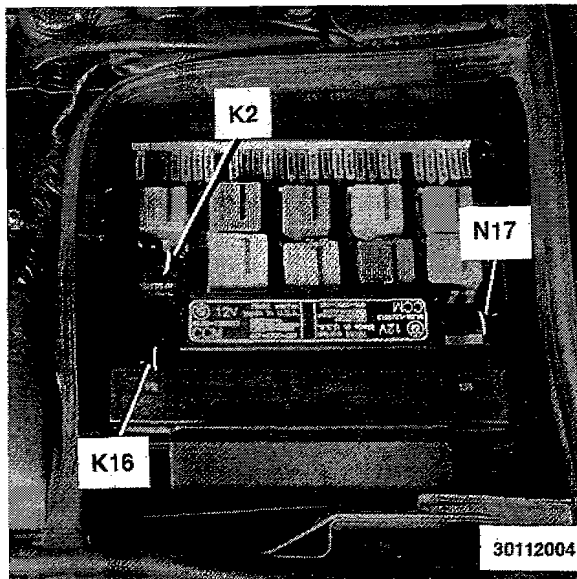
**Figure 3- LH Rear Of Engine Compartment (750iL Shown, 740i/L Similar)**

- A3 Lamp Control Module**
- A4 Check Control Module**
- K8 Auxilliary Water Pump Relay**
- K9 Unloader Relay, KL15**
- K19 Compressor Control Relay**



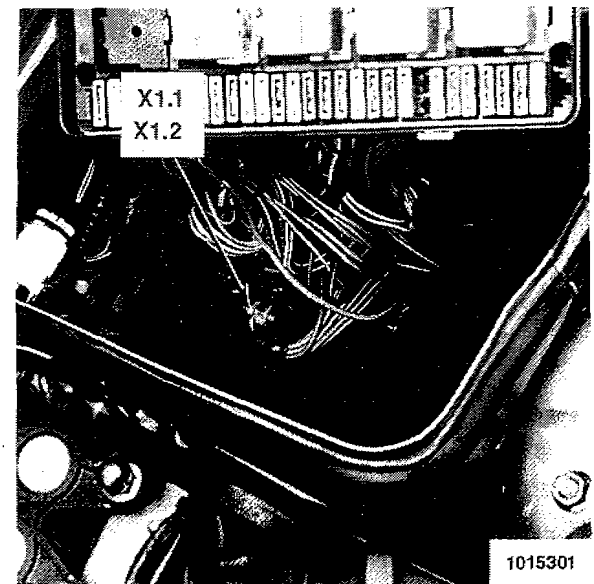
**Figure 1- LH Rear Of Engine Compartment (750iL Shown; 740i/L Similar)**

- K1 Starter Relay**
- K3 Unloader Relay, KLR**
- K4 Blower Relay**
- K61 Unloader Relay, KL61**



**Figure 2- LH Rear Of Engine Compartment (750iL Shown; 740i/L Similar)**

- K2 Horn Relay**
- K16 Hazard Flasher Relay**
- N17 Crash Control Unit**

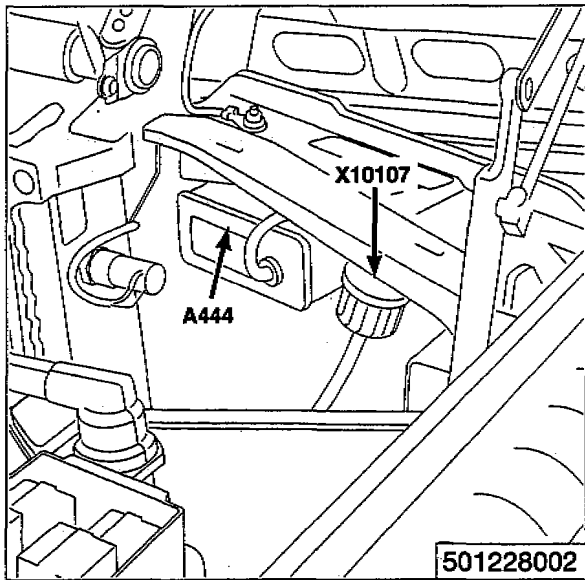


**Figure 3- LH Rear Of Engine Compartment (Front Power Distribution Box Removed)**

- X1.1 Junction Post**
- X1.2 Junction Post**

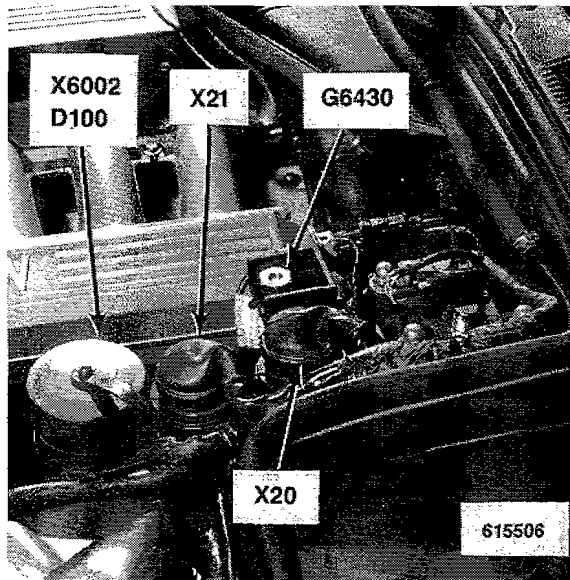


## COMPONENT LOCATION VIEWS



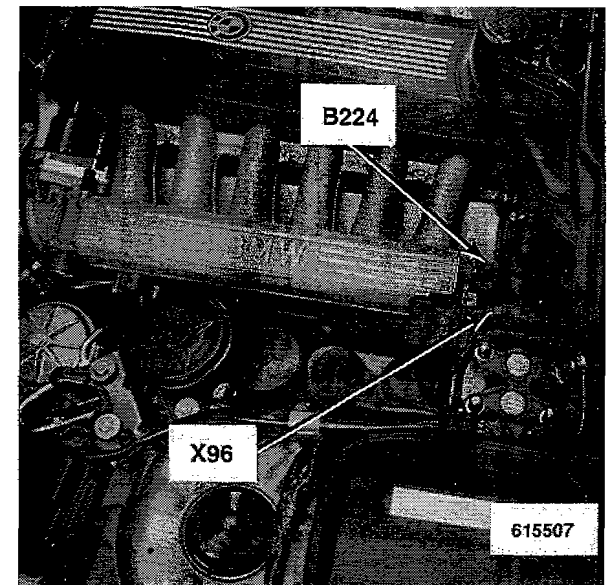
**Figure 1 - RH Side Of Engine Compartment**

- A444** Right Xenon Light
- X10107** Connector (4 pins) SW



**Figure 2- LH Rear Of Engine Compartment (750iL)**

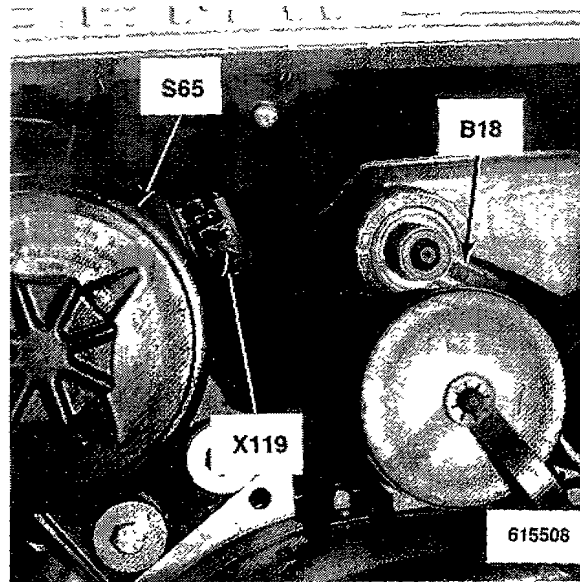
- D100** Data Link Connector
- G6430** Starter Junction Point
- X20** Connector (25 pins) SW
- X21** Connector (25 pins) SW
- X6002** Data Link Connector (20 pins) SW



**Figure 3- LH Rear Of Engine Compartment**

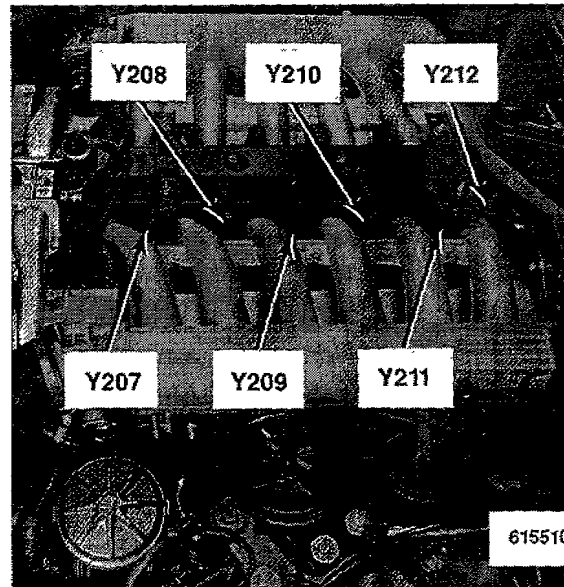
- B224** Cyl. 1-6 Engine Intake Air Temperature Sensor
- X96** Connector (3 pins) SW





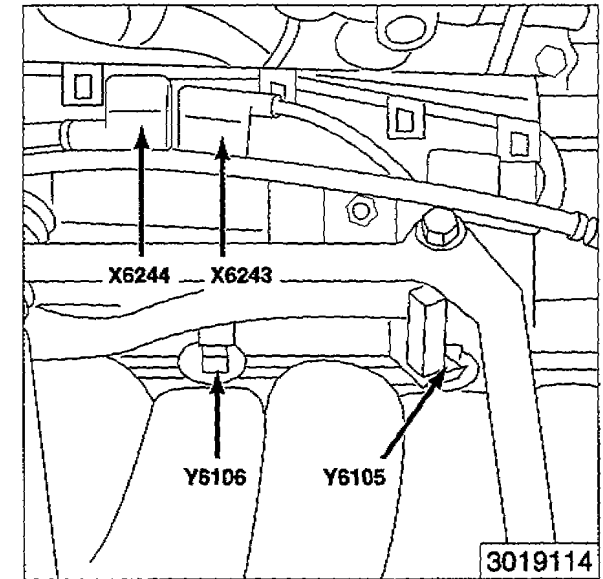
**Figure 1- LH Side Of Engine Compartment, Near Shock Tower (750iL)**

- B18 Brake Fluid Level Switch**
- S65 Power Steering Fluid Level Switch (Inside Reservoir)**
- X119 Connector (2 pins) SW**



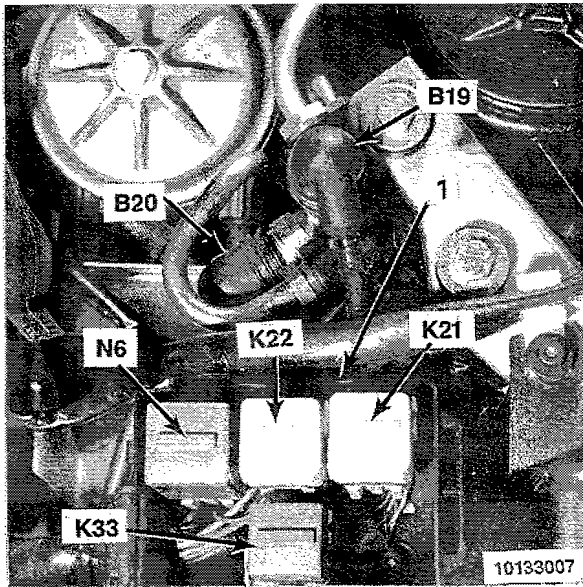
**Figure 2- Top LH Side of Engine (750iL)**

- Y207 Cyl. 7 Fuel Injection Valve**
- Y208 Cyl. 8 Fuel Injection Valve**
- Y209 Cyl. 9 Fuel Injection Valve**
- Y210 Cyl. 10 Fuel Injection Valve**
- Y211 Cyl. 11 Fuel Injection Valve**
- Y212 Cyl. 12 Fuel Injection Valve**



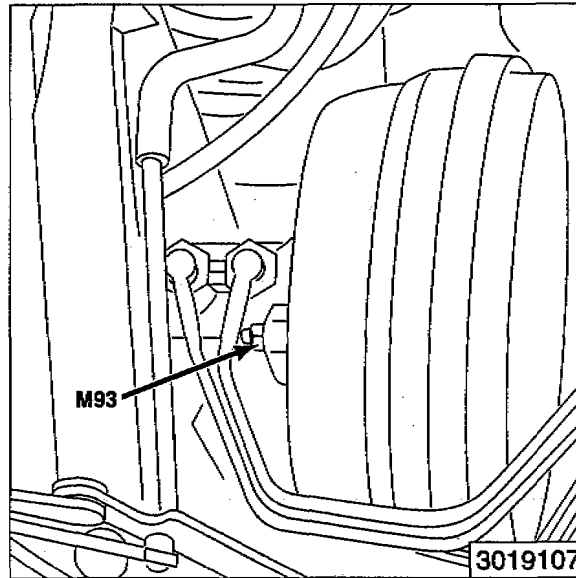
**Figure 3- Top LH Side Of Engine (740i/L)**

- Y6105 Cyl. 5 Fuel Injection Valve**
- Y6106 Cyl. 6 Fuel Injection Valve**
- X6243 Connector (3 pins) SW**
- X6244 Connector (3 pins) SW**



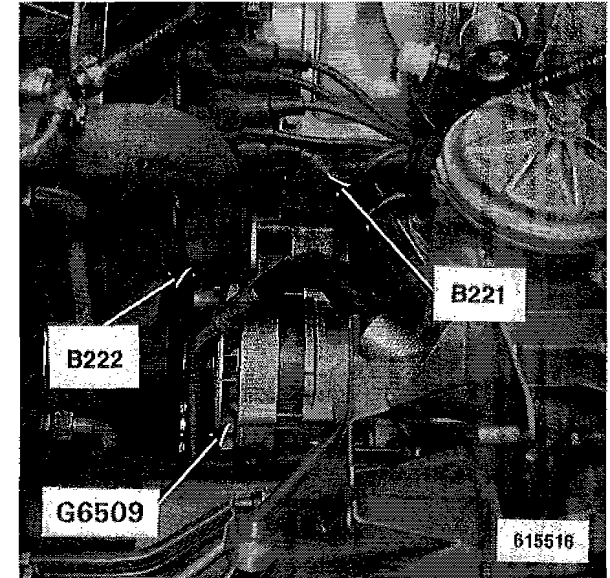
**Figure 1- LH Side Of Engine Compartment (750iL Shown; 740i/L Similar)**

- 1** Auxilliary Relay Box 1
- B19** Brake Pressure Regulating Switch
- B20** Brake Pressure Switch
- K21** Normal Speed Relay
- K22** High Speed Relay
- K33** Air Conditioning Relay
- N6** Headlight/Fog Light Cleaning System Module (SRA)



**Figure 2- LH Front Of Engine Compartment (740i/L)**

- M93** Throttle Position Motor (ADS)

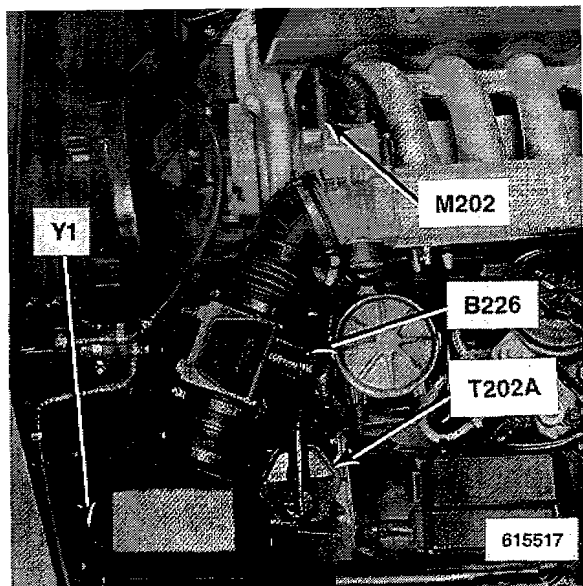


**Figure 3- LH Front Of Engine (Air Cleaner Assembly Removed) (750iL)**

- B221** Cyl. 7-12 Cylinder Identification Sensor
- B222** Cyl. 1-6 Camshaft Position/RPM Sensor (Behind Hose)
- G6509** Generator

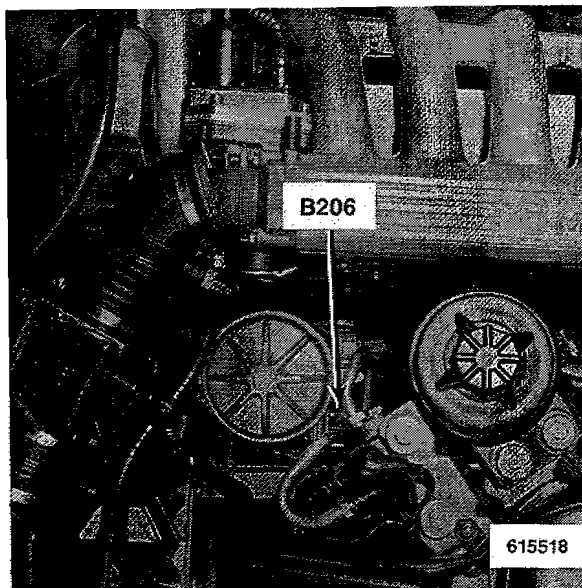


# COMPONENT LOCATION VIEWS



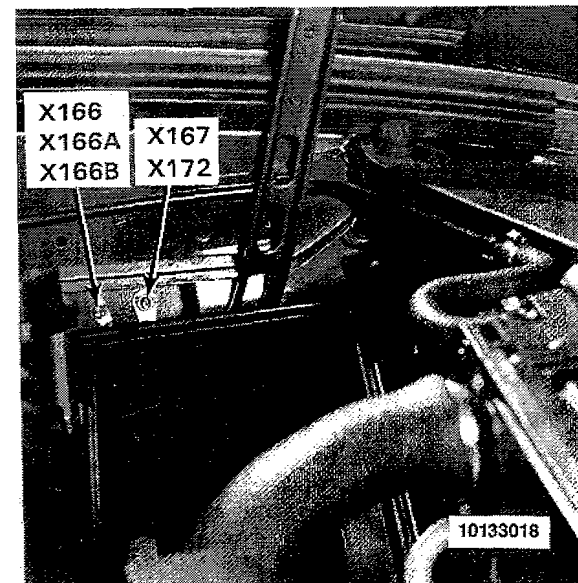
**Figure 1- LH Front Of Engine Compartment (750iL)**

- B226** Cyl. 1-6 Mass Air Flow Sensor
- M202** Cyl. 1-6 Throttle Body (EML)
- T202A** Cyl. 7-12 Ignition Coil
- Y1** ABS Hydraulic Unit



**Figure 2- LH Front Of Engine Compartment (750iL)**

- B206** Oil Pressure Switch

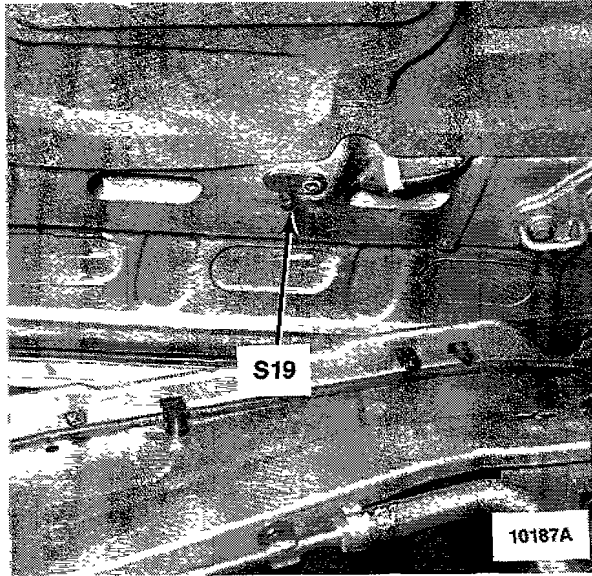


**Figure 3- LH Front Of Engine Compartment (Air Filter Removed) (750iL Shown; 740i/L Similar)**

- X166A** Ground
- X166B** Ground
- X167** Ground
- X172** Ground

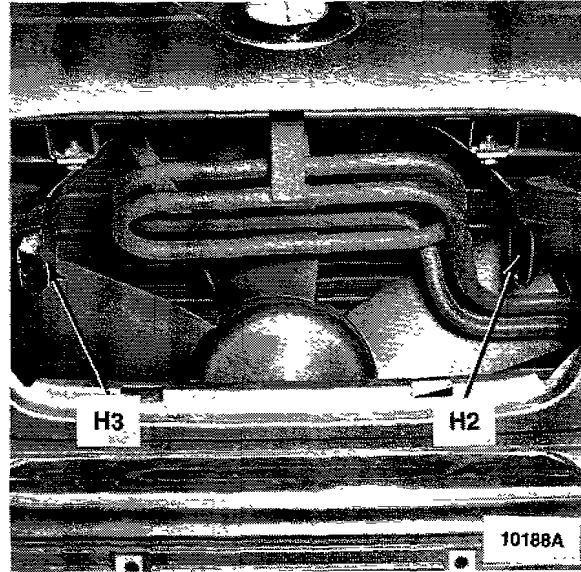


## COMPONENT LOCATION VIEWS



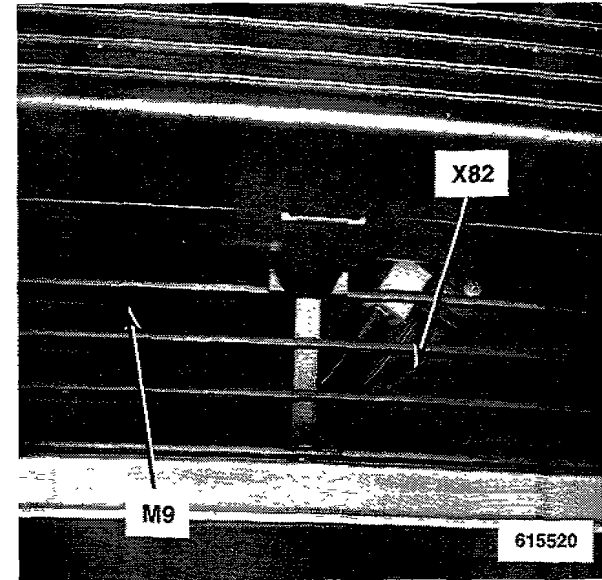
**Figure 1- LH Front Of Engine  
Compartment Hood**

**S19 Underhood Light Switch**



**Figure 2- Front Of Car (Grille Removed)**

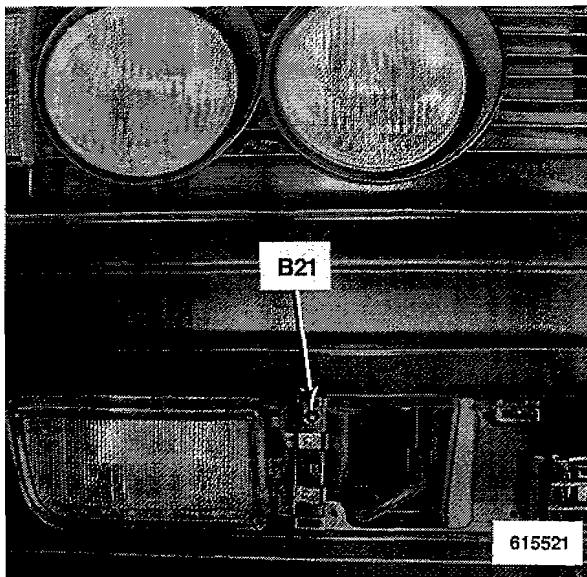
**H2 Left Horn  
H3 Right Horn**



**Figure 3- Lower Center Front Of Car**

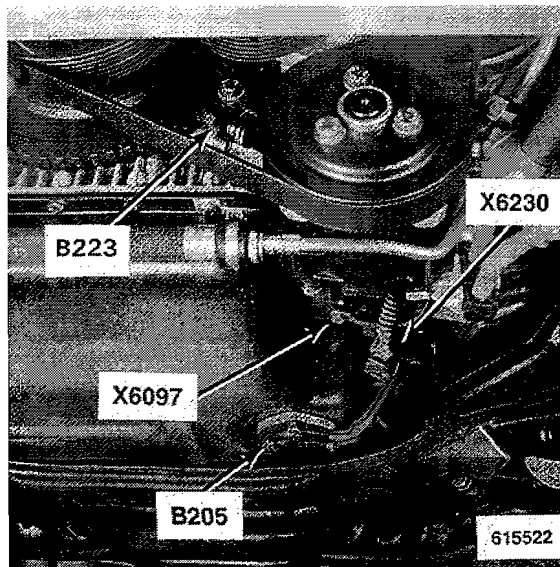
**M9 Auxillary Fan Motor  
X82 Connector (3 pins) SW**

**BMW**  
**7** **COMPONENT LOCATION VIEWS**



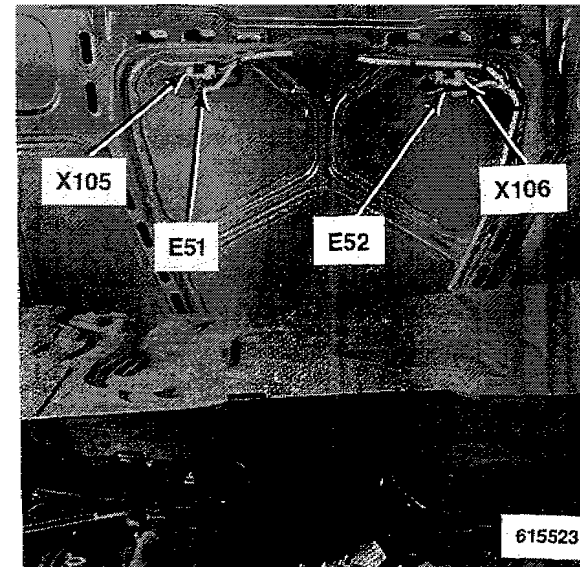
**Figure 1- Lower RH Side Of Front Bumper**

**B21 On-Board Computer  
Temperature Sensor**



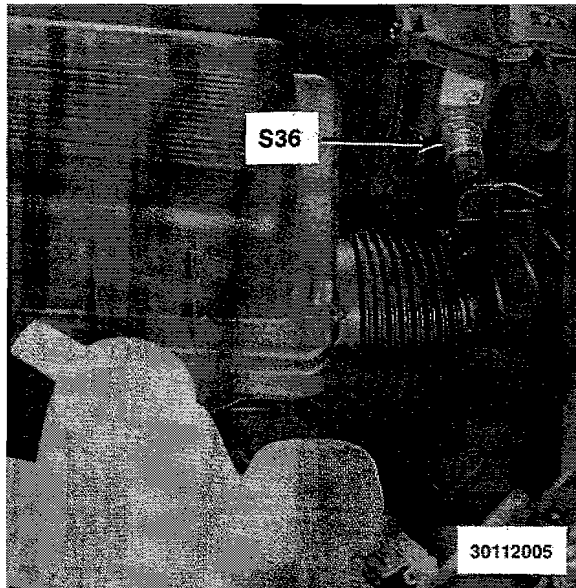
**Figure 2- Under Front Of Car (750iL)**

**B205 Oil Level Sensor**  
**B223 Cyl. 7-12 Crankshaft Position/RPM  
Sensor**  
**X6097 Ground**  
**X6230 Connector (3 pins) SW**



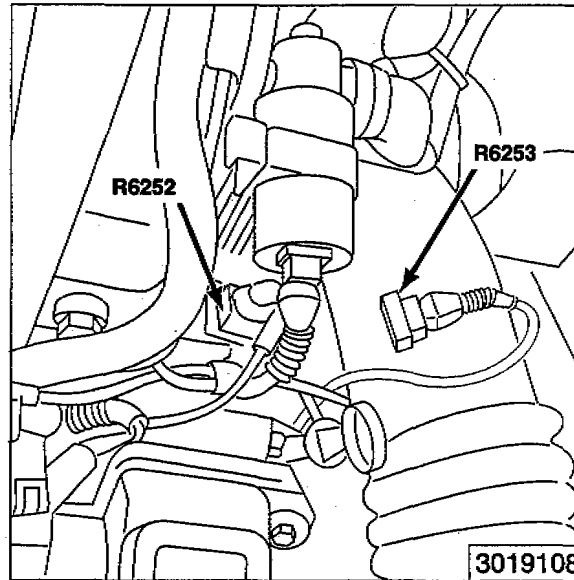
**Figure 3- Underside Of Engine  
Compartment Hood**

**E51 Left Washer Jet Heater**  
**E52 Right Washer Jet Heater**  
**X105 Connector (2 pins) GR**  
**X106 Connector (2 pins) GR**



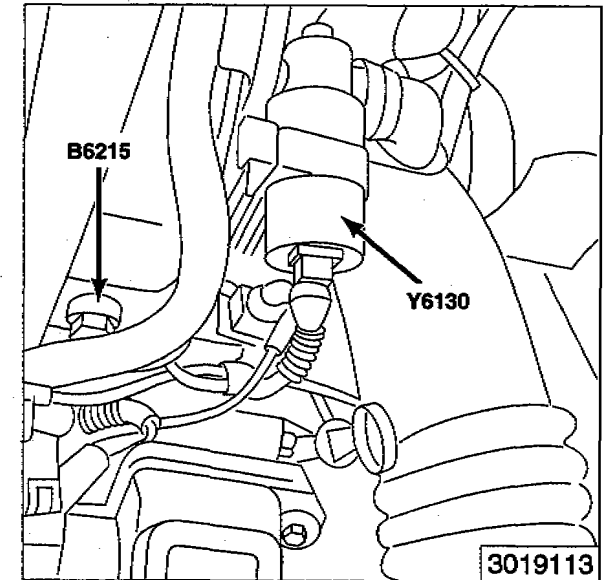
**Figure 1- RH Front Of Engine  
Compartment (750iL)**

**S36 Temperature Switch**



**Figure 2- Front Of Engine Compartment  
(740i/L)**

**R6252 Throttle Position Sensor  
R6253 ASC Throttle Position Sensor**

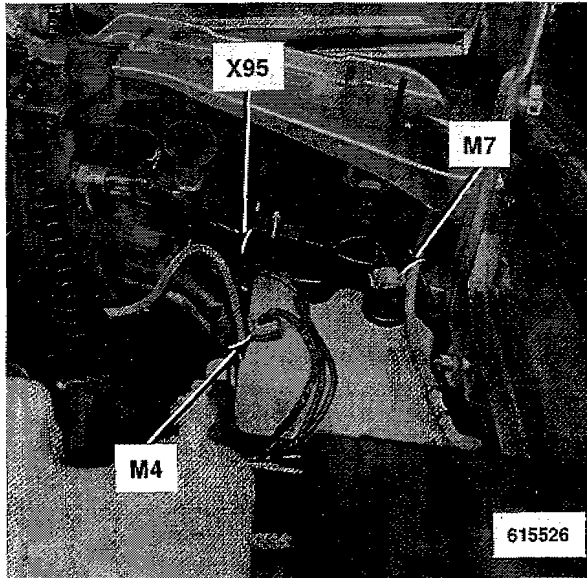


**Figure 3- Front Of Engine Compartment  
(740i/L)**

**B6215 Intake Air Temperature Sensor  
Y6130 Idle Speed Control Valve**

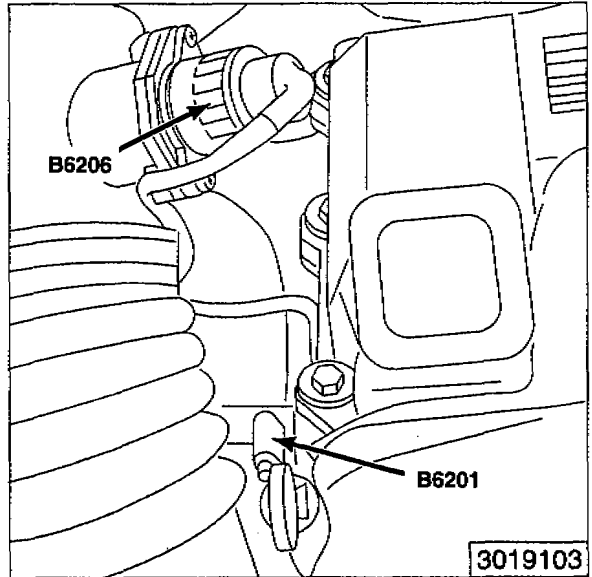


# COMPONENT LOCATION VIEWS



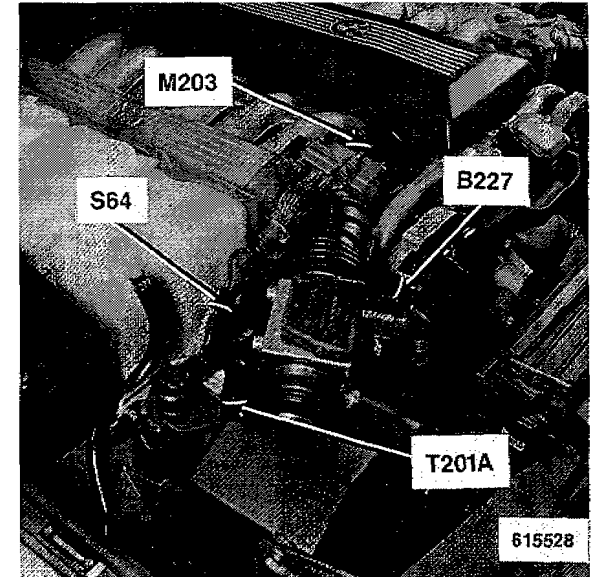
**Figure 1- RH Front Of Engine Compartment (Air Cleaner Assembly Removed) (750iL)**

- M4 Washer Pump**
- M7 Headlight/Fog Light Washer Pump**
- X95 Connector (3 pins) SW**



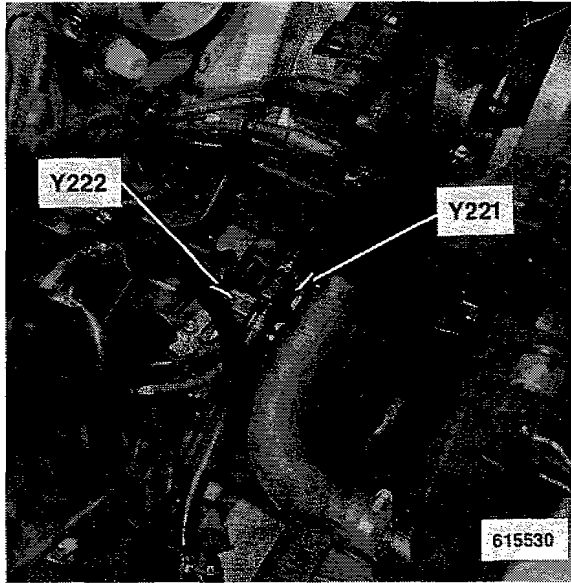
**Figure 2- RH Front Of Engine (740i/L)**

- B6201 Camshaft Position Sensor**
- B6206 Mass Air Flow Sensor**



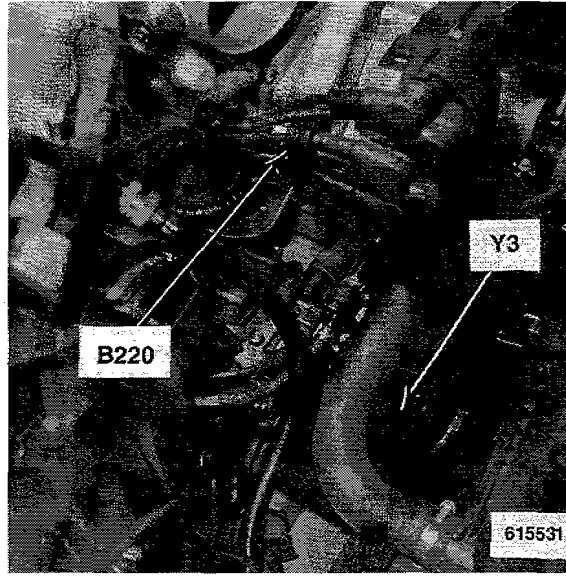
**Figure 3- RH Front Of Engine Compartment (750iL)**

- B227 Cyl. 7-12 Mass Air Flow Sensor**
- M203 Cyl. 7-12 Throttle Body (EML)**
- S64 Washer Fluid Level Switch**
- T201A Cyl. 1-6 Ignition Coil**



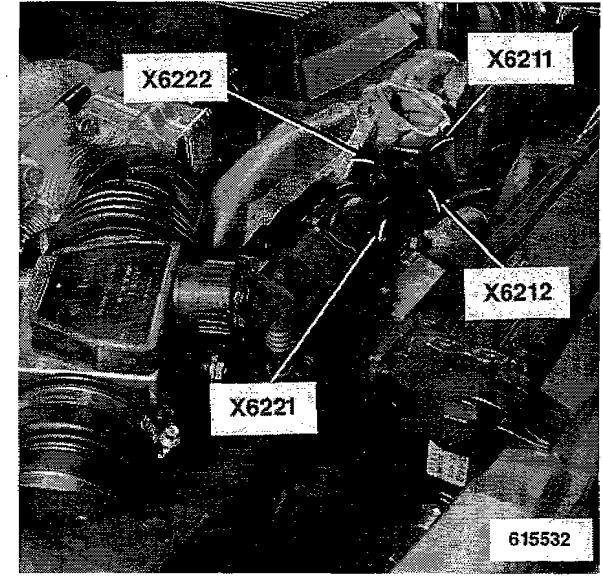
**Figure 1- RH Front Of Engine (Air Cleaner Assembly Removed)**

- Y221** Cyl. 1-6 Evaporative Emission Valve
- Y222** Cyl. 7-12 Evaporative Emission Valve



**Figure 2- RH Front Of Engine (Air Cleaner Assembly Removed)**

- B220** Cyl. 1-6 Cylinder Identification Sensor
- Y3** Air Conditioning Compressor



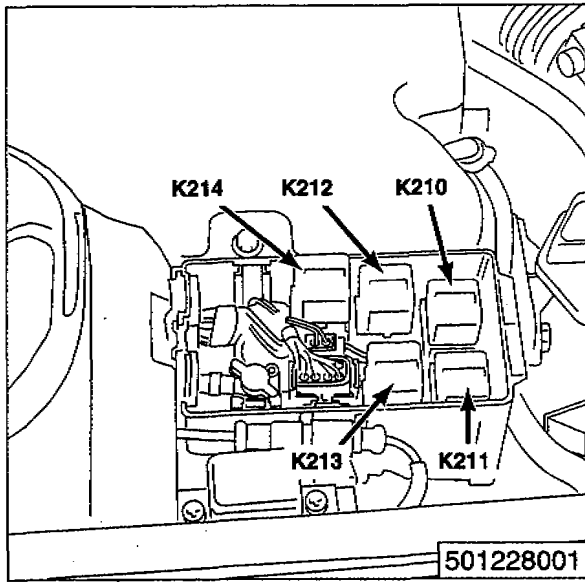
**Figure 3- Top Center Front Of Engine**

- X6211** Connector (3 pins) SW
- X6212** Connector (3 pins) SW
- X6221** Connector (3 pins) SW
- X6222** Connector (3 pins) SW



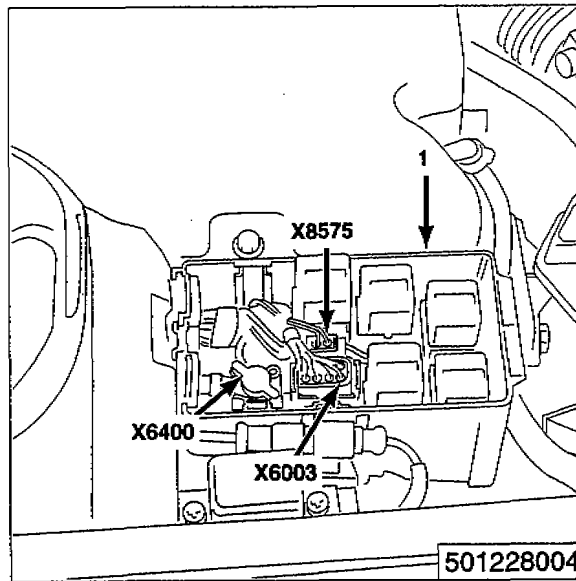


## COMPONENT LOCATION VIEWS



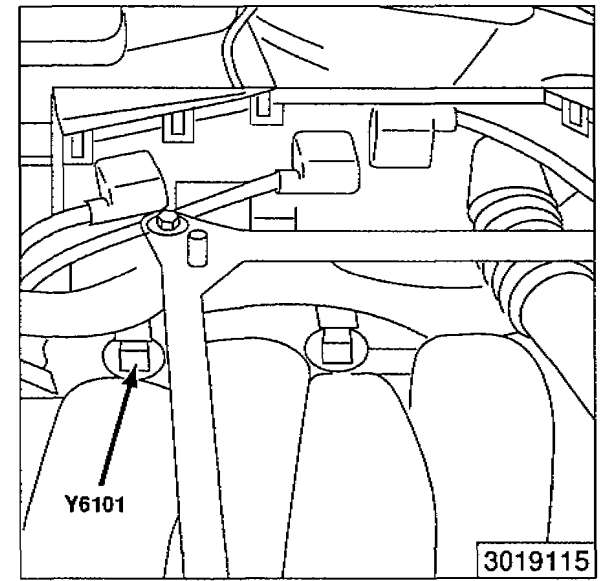
**Figure 1- RH Side Of Engine Compartment (750iL)**

- K210** Cyl. 1-6 Fuel Pump Relay
- K211** Cyl. 7-12 Fuel Pump Relay
- K212** Cyl. 1-6 Engine Control Module Relay
- K213** Cyl. 7-12 Engine Control Module Relay
- K6303** Oxygen Sensor Relay



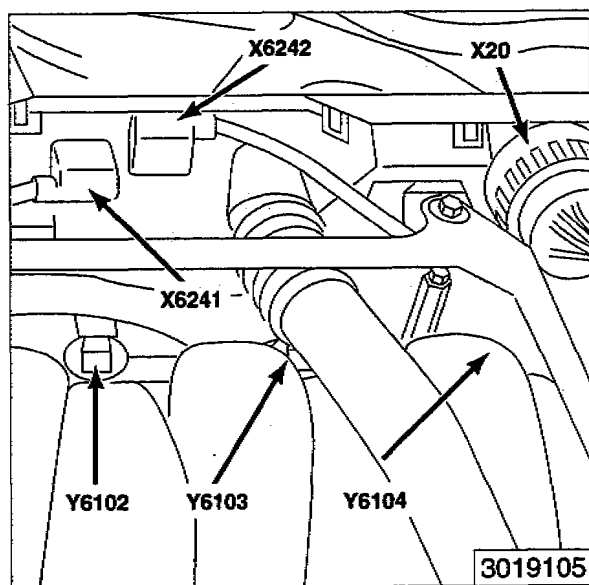
**Figure 2- RH Side Of Engine Compartment (750iL)**

- 1** Auxilliary Relay Box 2
- X6003** Connector (8 pins) SW
- X6400** B+ Junction Point
- X8575** Connector (2 pins) SW



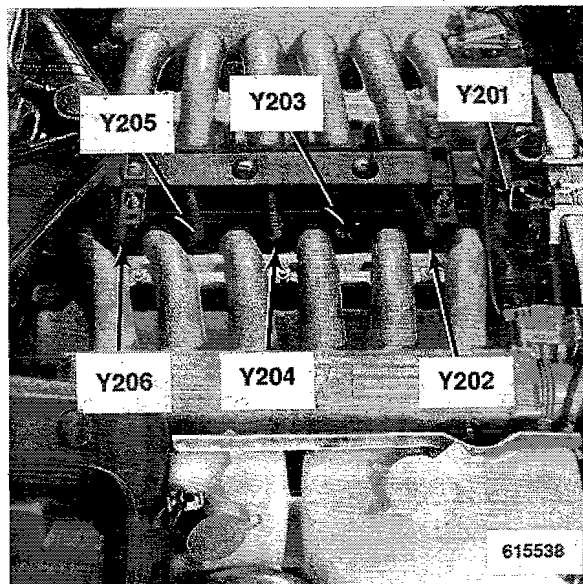
**Figure 3- RH Front Of Engine (740i/L)**

- Y6101** Cyl. 1 Fuel Injection Valve



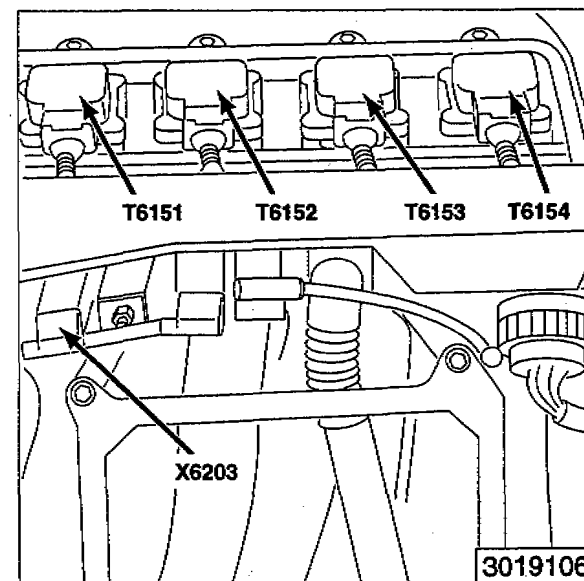
**Figure 1- Top RH Side Of Engine (740i/L)**

- Y6102 Cyl. 2 Fuel Injection Valve**
- Y6103 Cyl. 3 Fuel Injection Valve**
- Y6104 Cyl. 4 Fuel Injection Valve**
- X20 Connector (25 pins) SW**
- X6241 Connector (3 pins) SW**
- X6242 Connector (3 pins) SW**



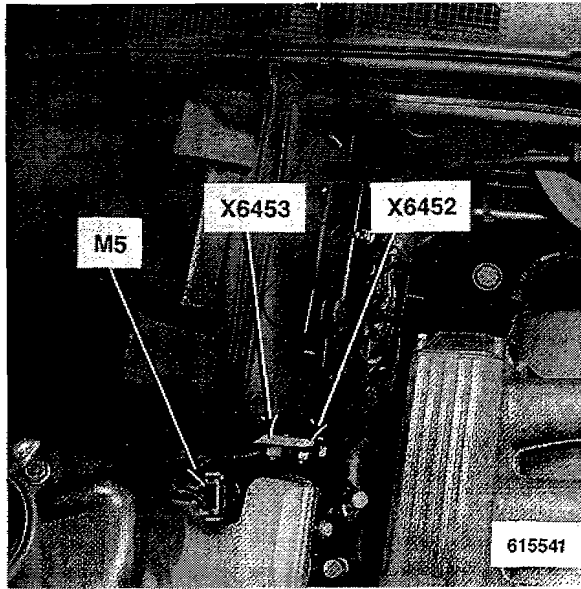
**Figure 2- Top RH Side Of Engine (750iL)**

- Y201 Cyl. 1 Fuel Injection Valve**
- Y202 Cyl. 2 Fuel Injection Valve**
- Y203 Cyl. 3 Fuel Injection Valve**
- Y204 Cyl. 4 Fuel Injection Valve**
- Y205 Cyl. 5 Fuel Injection Valve**
- Y206 Cyl. 6 Fuel Injection Valve**



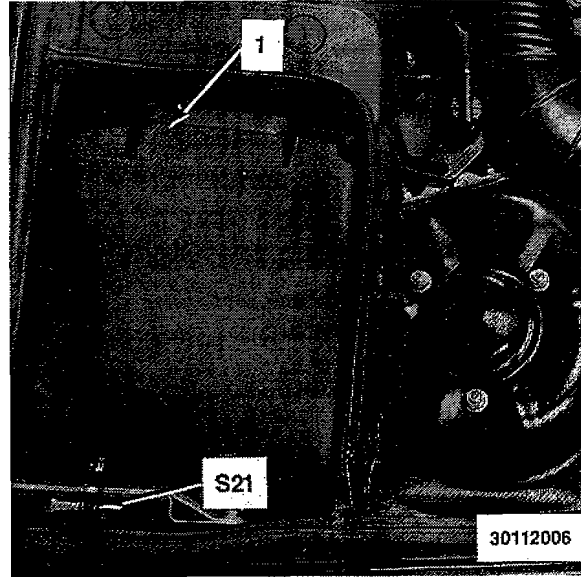
**Figure 3- Top RH Side Of Engine (740i/L)**

- T6151 Cyl. 1 Ignition Coil**
- T6152 Cyl. 2 Ignition Coil**
- T6153 Cyl. 3 Ignition Coil**
- T6154 Cyl. 4 Ignition Coil**
- X6203 Connector (3 pins) SW**



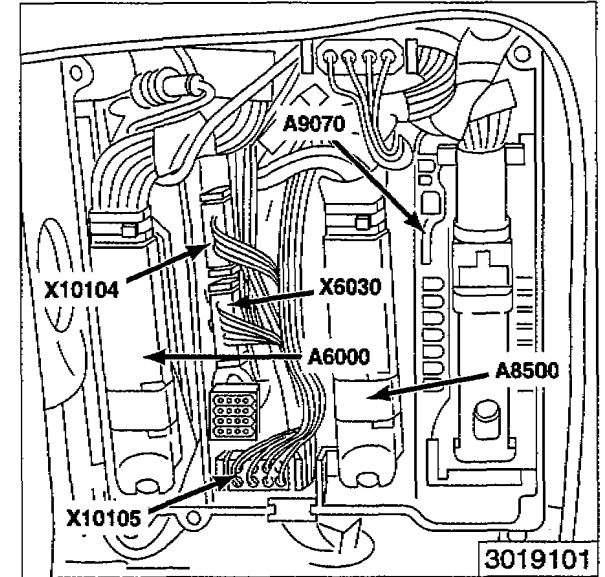
**Figure 1- RH Rear Of Engine Compartment (750iL Shown; 740i/L Similar)**

- M5 Intensive Wash Pump (Not in US)**
- X6452 Ground**
- X6453 Ground**



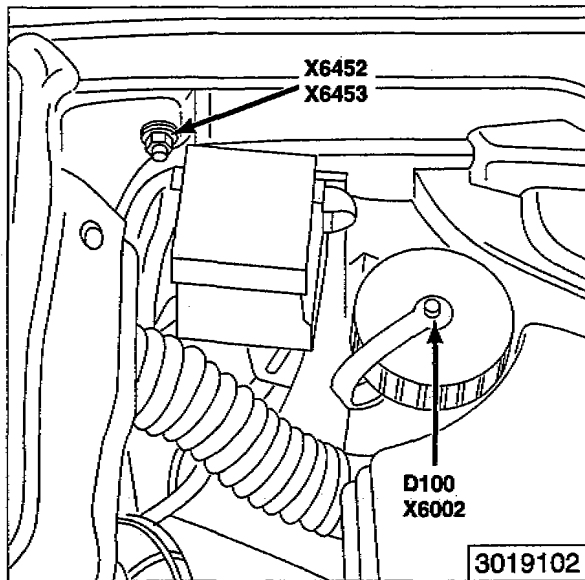
**Figure 2- RH Rear Of Engine Compartment (750iL Shown; 740i/L Similar)**

- 1 E-Box**
- S21 Engine Hood Switch (DWA)**



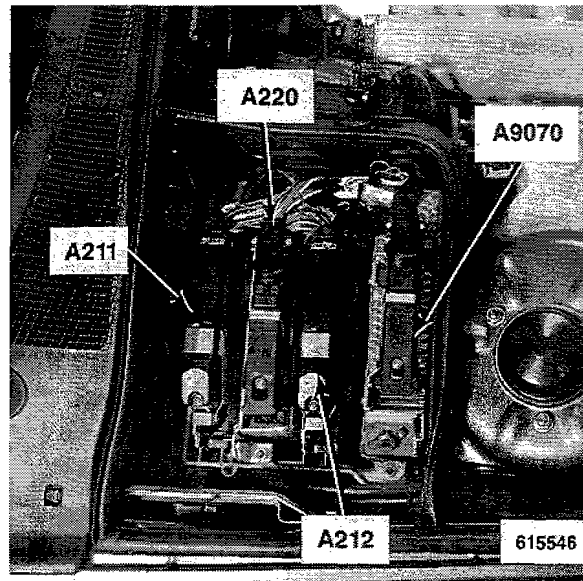
**Figure 3- RH Rear Of Engine (740i/L)**

- A6000 Engine Control Module (DME)**
- A8500 Transmission Control Module (EGS)**
- A9070 Slip Control Module (ABS/ASC + T)**
- X6030 Connector (18 pins) SW**
- X10104 Connector (18 pins) SW**
- X10105 Connector (8 pins) WS**



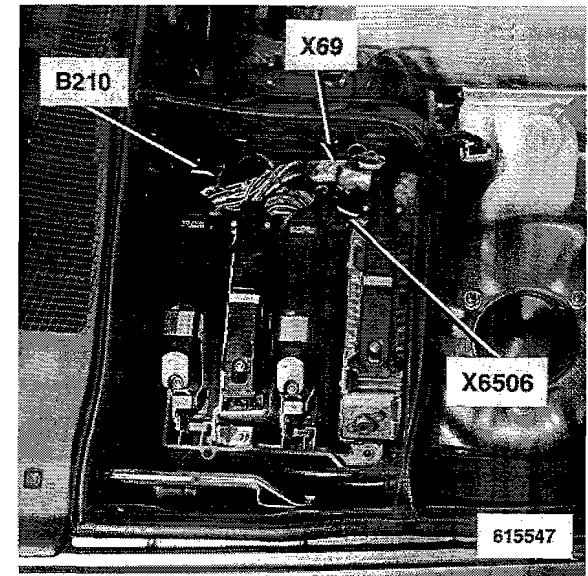
**Figure 1- RH Rear Of Engine  
Compartment (740i/L)**

- D100 Data Link Connector**
- X6002 Data Link Connector (20 pins)  
SW**
- X6452 Ground**
- X6453 Ground**



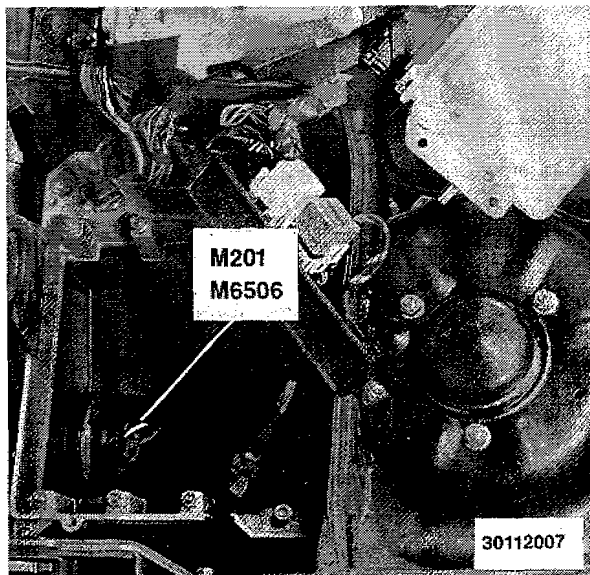
**Figure 2- RH Rear Of Engine  
Compartment (750iL)**

- A211 Cyl. 1-6 Engine Control Module  
(DME)**
- A212 Cyl. 7-12 Engine Control Module  
(DME)**
- A220 Electronic Throttle Control Module  
(EML)**
- A9070 Slip Control Module (ABS/ASC + T)**



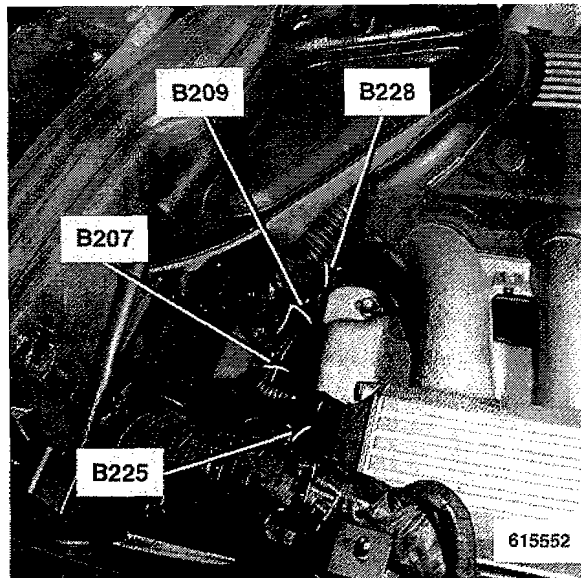
**Figure 3- RH Rear Of Engine  
Compartment (750iL)**

- B210 Temperature Switch**
- X69 Connector (8 pins) WS**
- X6506 Connector (4 pins) SW**



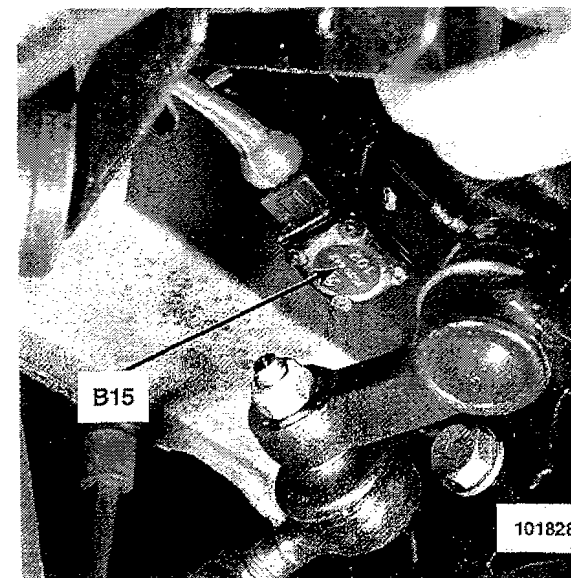
**Figure 1- RH Rear Of Engine Compartment (Modules Removed)**

- M201 E-Box Fan (750iL)**
- M6506 E-Box Fan (740i/L)**



**Figure 2- RH Rear Of Engine (750iL)**

- B207 Engine Coolant Temperature Sensor**
- B209 Engine Coolant Temperature Sensor (EML)**
- B225 Cyl. 7-12 Engine Intake Air Temperature Sensor**
- B228 Engine Coolant Temperature Sensor (DME)**

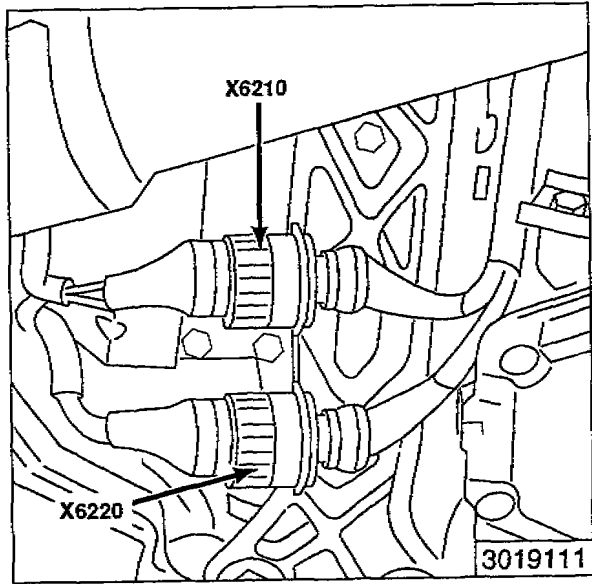


**Figure 3- Below LH Front Of Car**

- B15 Electro-Hydraulic Converter (Servotronic)**

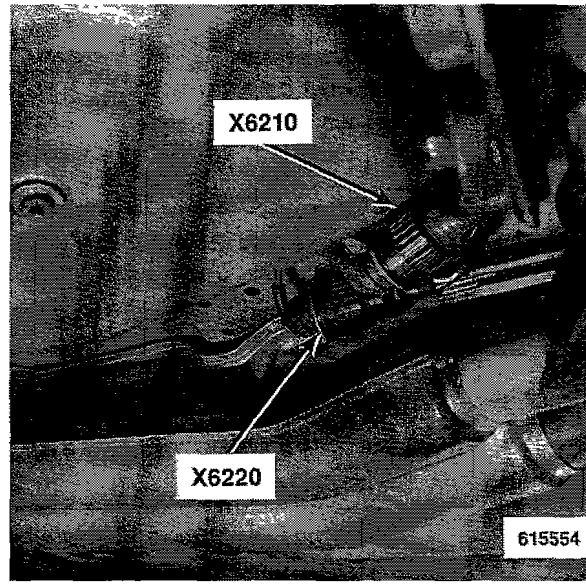


# COMPONENT LOCATION VIEWS



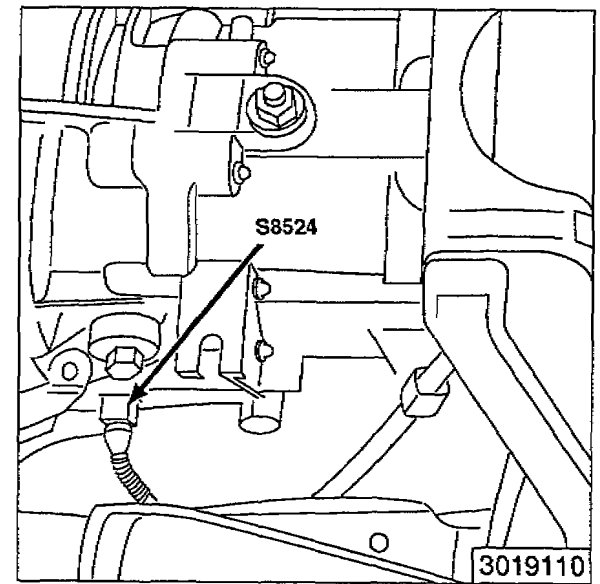
**Figure 1- Under Transmission (740i/L)**

- X6210 Connector (4 pins) SW**
- X6220 Connector (4 pins) SW**



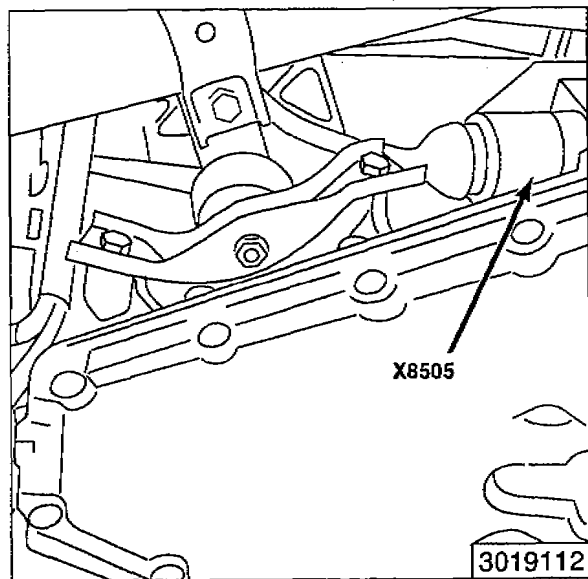
**Figure 2- Under Center Of Car, RH Side Of Transmission (750iL)**

- X6210 Connector (4 pins) SW**
- X6220 Connector (4 pins) SW**



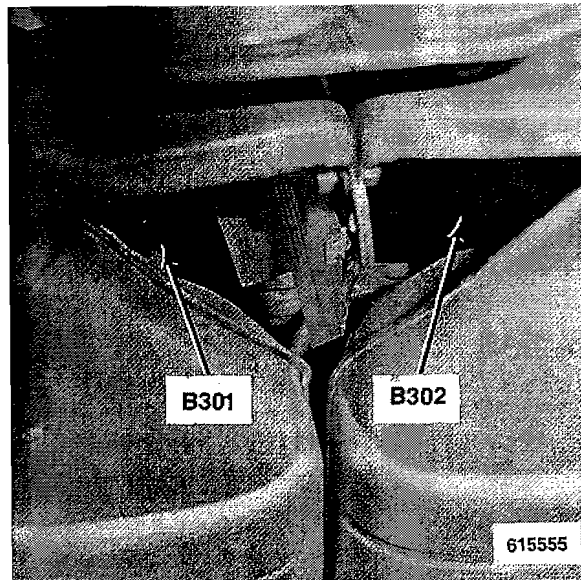
**Figure 3- RH Side Of Transmission**

- S8524 Back Up Light Switch**



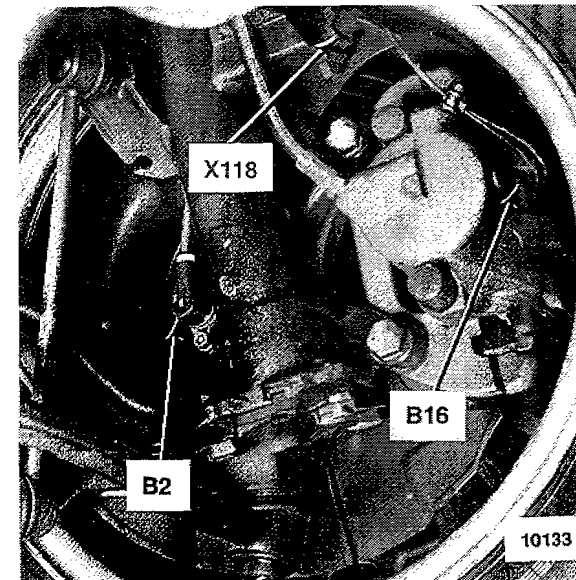
**Figure 1- Under Transmission (740i/L)**

**X8505 Connector (8 pins) SW**



**Figure 2- Under Center Of Car, Behind Transmission**

**B301 Cyl. 1-6 Heated Oxygen Sensor**  
**B302 Cyl. 7-12 Heated Oxygen Sensor**



**Figure 3- Behind LH Front Wheel**

**B2 Left Front Speed Sensor (ABS)**  
**B16 Left Front Brake Pad Sensor**  
**X118 Connector (2 pins) SW**

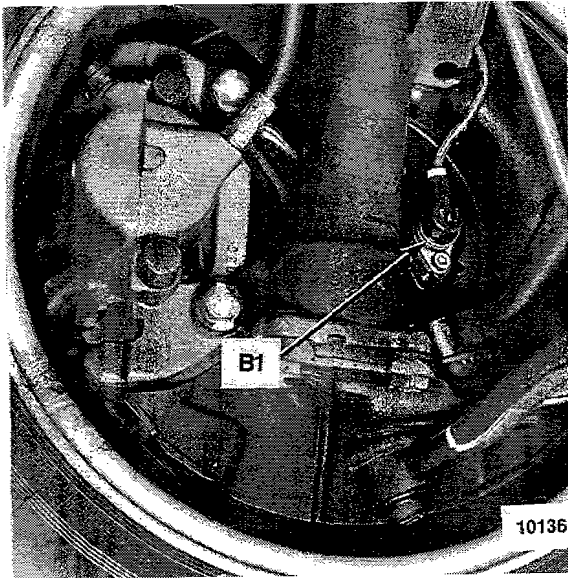


Figure 1- Behind RH Front Wheel

B1 Right Front Speed Sensor (ABS)

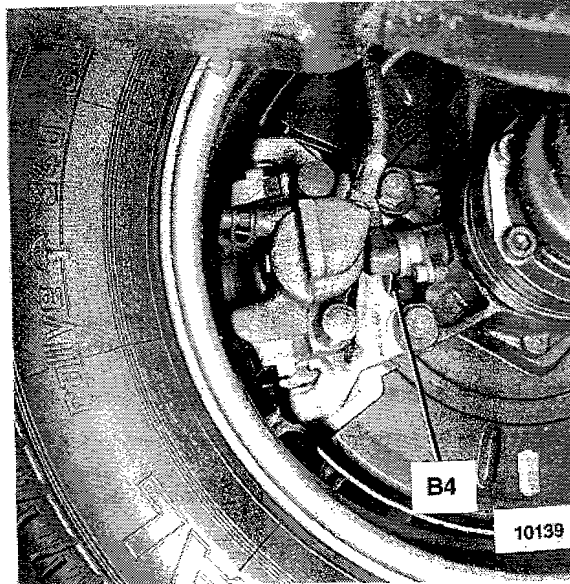


Figure 2- Behind LH Rear Wheel

B4 Left Rear Speed Sensor (ABS)

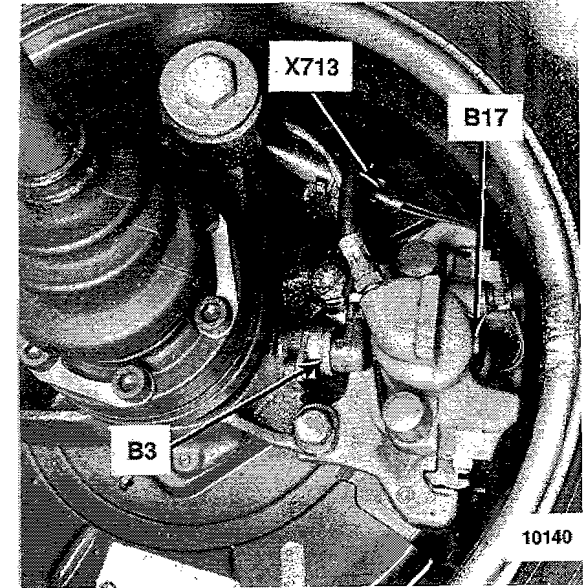
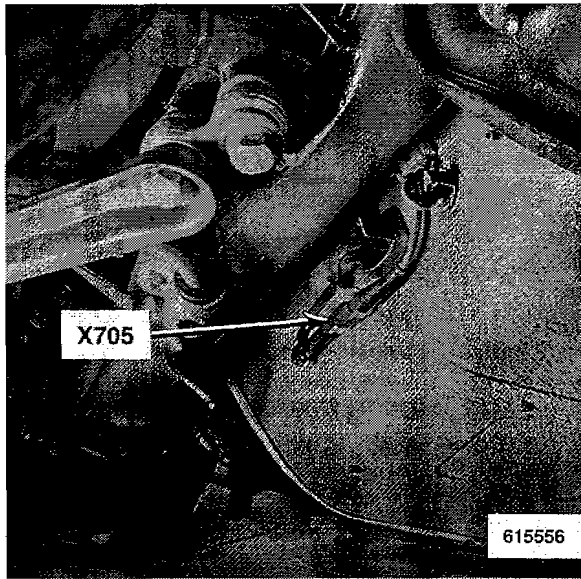


Figure 3- Behind RH Rear Wheel

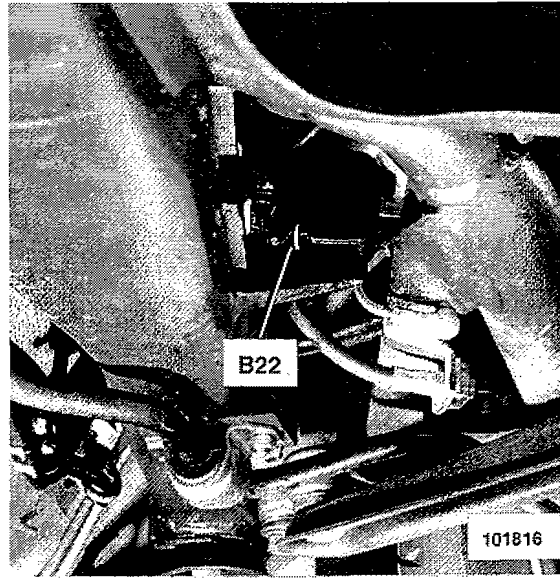
B3 Right Rear Speed Sensor (ABS)  
 B17 Right Rear Brake Pad Sensor  
 X713 Connector (2 pins) SW





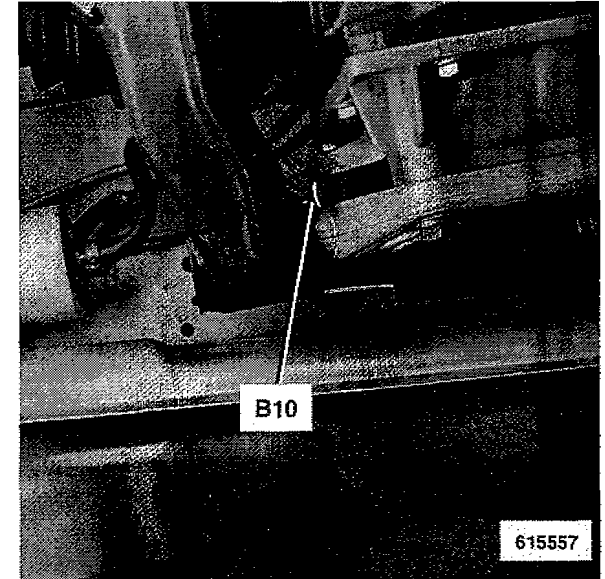
**Figure 1- Under RH Side Of Car, Forward Of Rear Differential**

**X705 Connector (2 pins) SW**



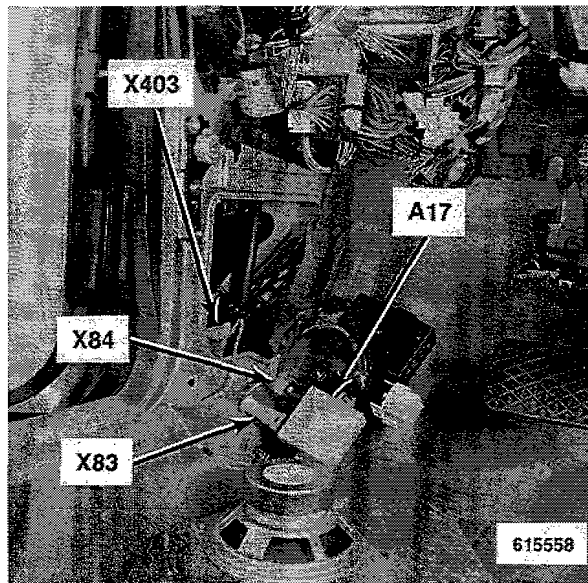
**Figure 2- Under RH Side Of Car, RH Side Of Rear Differential**

**B22 Wheel Camber Control Module**



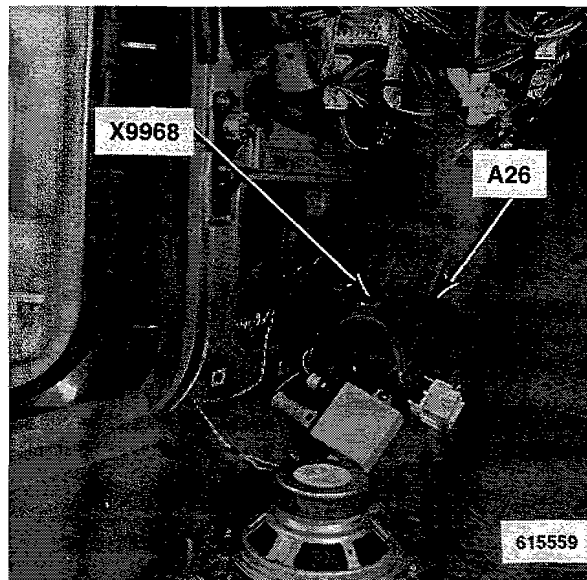
**Figure 3- RH Side Of Rear Differential**

**B10 Vehicle Speed Sensor**



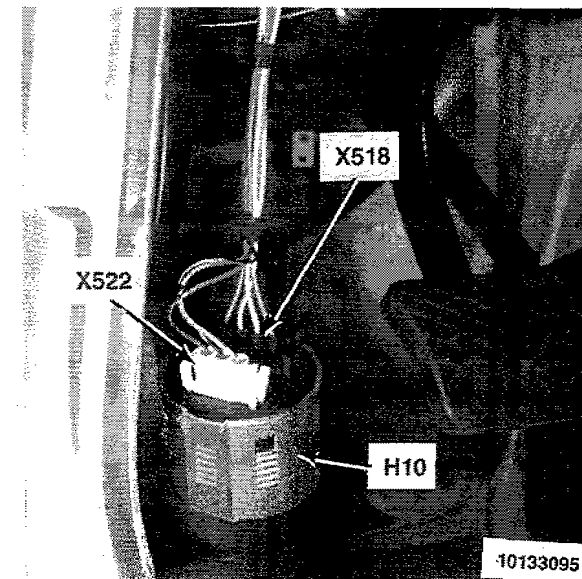
**Figure 1- Inside LH Kick Panel (Module/ Relay Bracket Removed)**

- A17 Servotronic Control Module**
- X83 Connector (3 pins) GE**
- X84 Connector (3 pins) GE**
- X403 Connector (2 pins) WS**



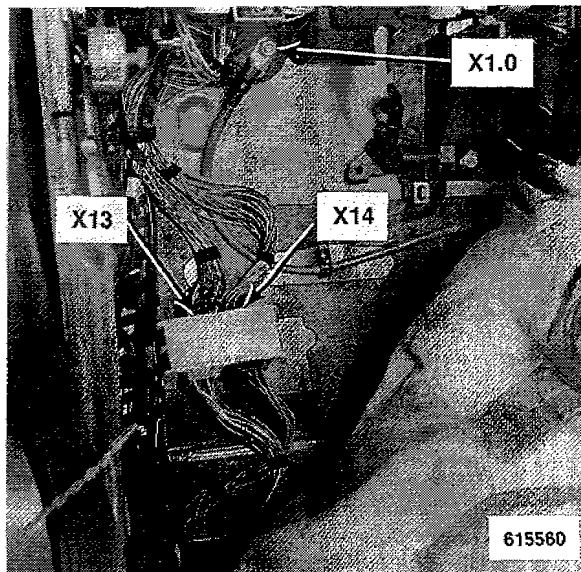
**Figure 2- Inside LH Kick Panel (Module/ Relay Bracket Removed)**

- A26 Lock-Sensor Control Module**
- X9968 Connector (10 pins) SW**



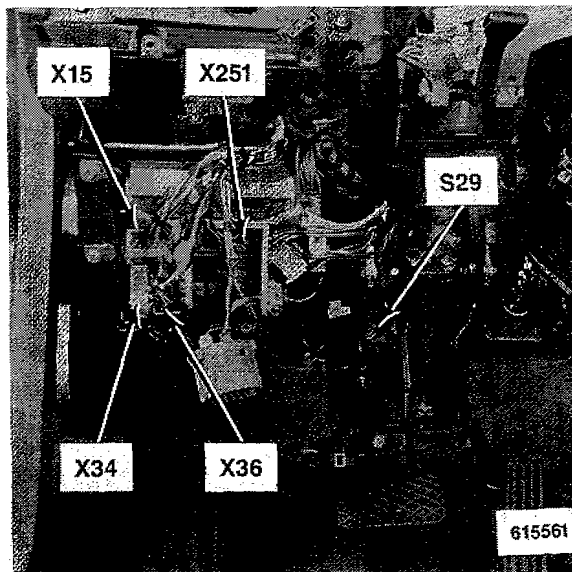
**Figure 3- Below LH Side Of Dash**

- H10 Chime Module**
- X518 Connector (4 pins) SW**
- X522 Connector (3 pins) WS**



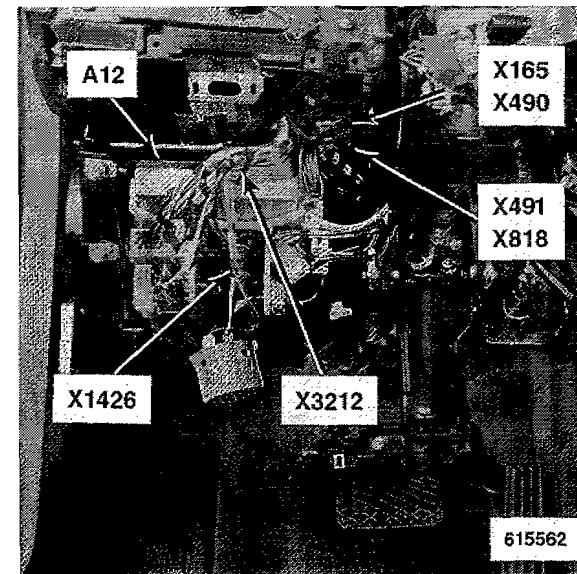
**Figure 1- Below Driver's Footrest**

- X1.0 Junction Post**
- X13 Connector (30 pins) BL**
- X14 Connector (30 pins) SW**



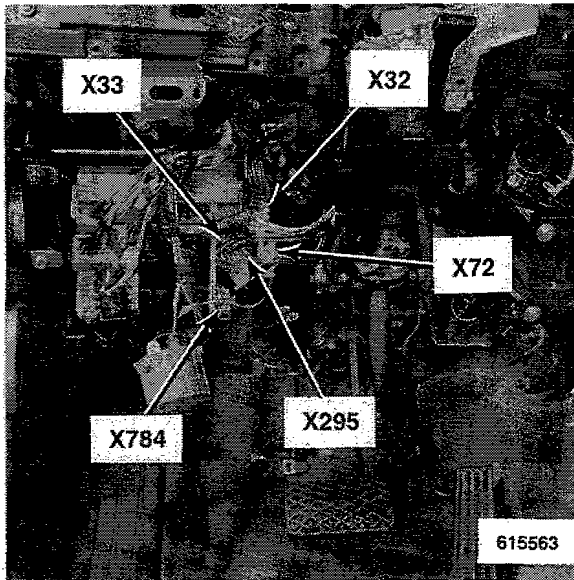
**Figure 2- Below LH Side Of Dash, Left Of Steering Column**

- S29 Brake Light Switch**
- X15 Connector (30 pins) WS**
- X34 Connector (12 pins) WS**
- X36 Connector (21 pins) SW**
- X251 Connector (30 pins) SW**



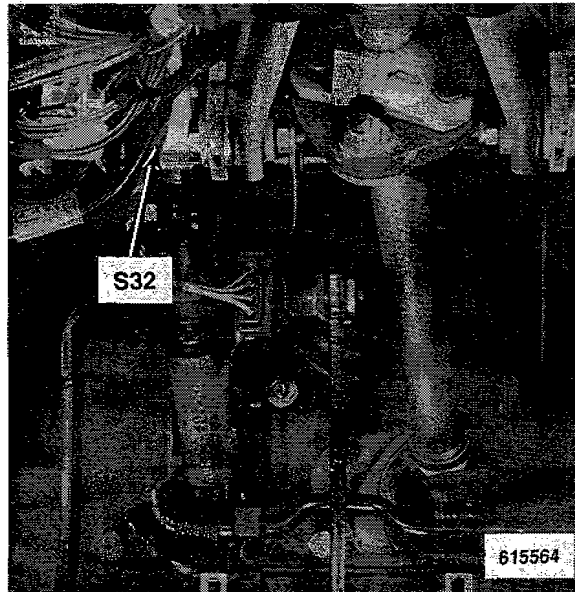
**Figure 3- Below LH Side Of Dash, Left Of Steering Column**

- A12 Supplemental Restraint System Control Module**
- X165 Ground**
- X490 Ground**
- X491 Ground**
- X818 Ground**
- X1426 Connector (1 pin) BR**
- X3212 Connector (4 pins) SW**



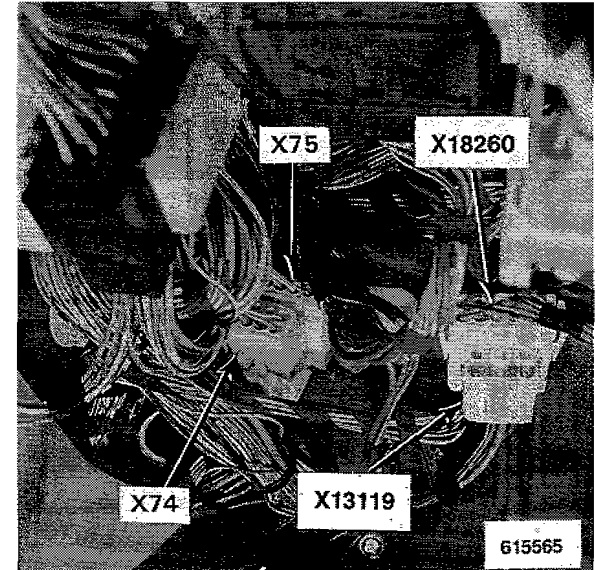
**Figure 1- Below LH Side Of Dash, Left Of Steering Column**

- X32 Connector (12 pins) WS**
- X33 Connector (12 pins) SW**
- X72 Connector (8 pins) WS (740i)**
- X72 Connector (8 pins) SW (750iL)**
- X295 Connector (8 pins) SW**
- X784 Connector (12 pins) OR**



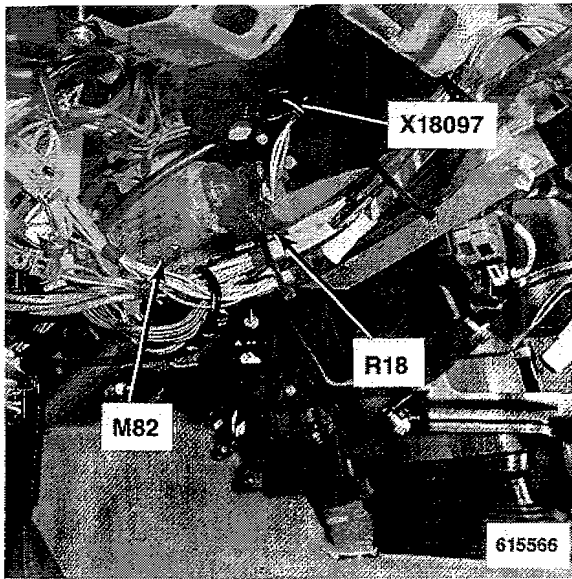
**Figure 2- Below LH Side Of Dash, Left Of Steering Column**

- S32 Clutch Switch**



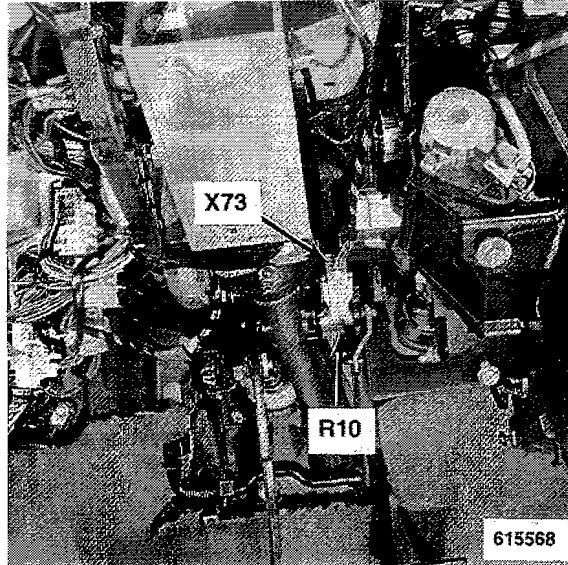
**Figure 3- Below LH Side Of Dash, Left Of Steering Column**

- X74 Connector (12 pins) OR**
- X75 Connector (12 pins) OR**
- X13119 Connector (4 pins) WS**
- X18260 Connector (12 pins) WS**



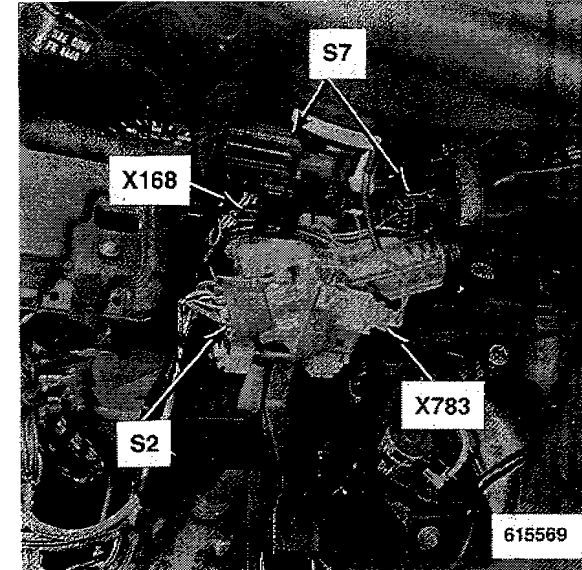
**Figure 1- Below LH Side Dash**

- M82 Steering Column Length Adjust Motor**
- R18 Steering Column Adjust Potentiometer**
- X18097 Connector (2 pins) SW**



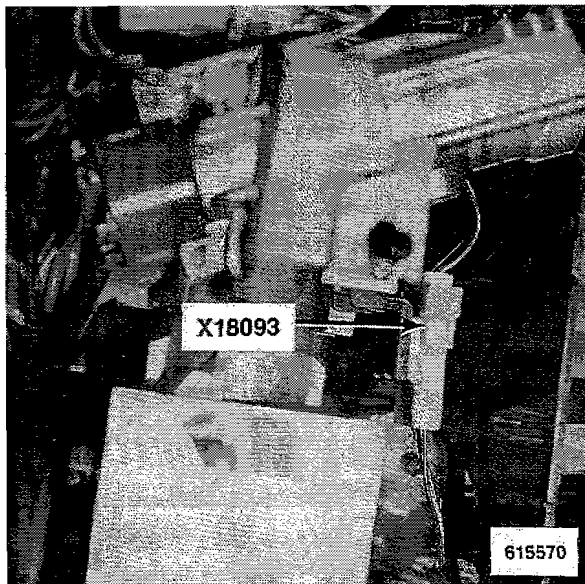
**Figure 2- Below LH Side Of Dash**

- R10 Pedal Position Sensor**
- X73 Connector (8 pins) SW (740I) WS (750IL)**



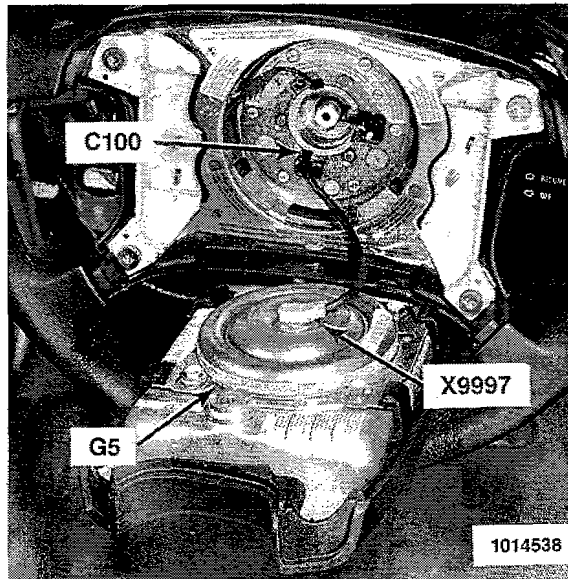
**Figure 3- Underside Of Steering Column**

- S2 Ignition Switch**
- S7 Combination Switch**
- X168 Connector (1 pin) SW**
- X783 Connector (2 pins) OR**



**Figure 1- Top RH Underside Of Steering Column**

**X18093 Connector (3 pins) WS**

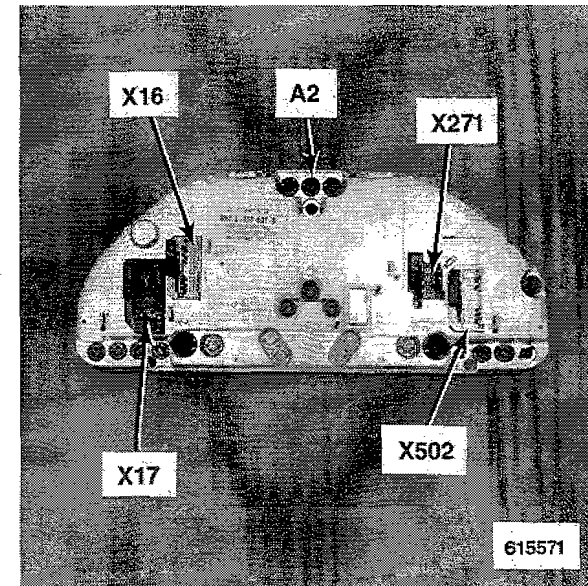


**Figure 2- Inside Steering Wheel**

**C100 Contact Ring**

**G5 Driver's Air Bag Generator**

**X9997 Connector (2 pins) OR**



**Figure 3- Rear Of Instrument Cluster**

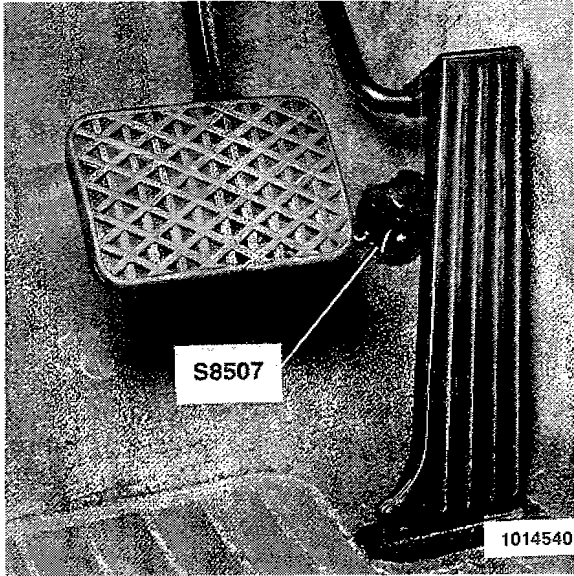
**A2 Instrument Cluster**

**X16 Connector (26 pins) TAN**

**X17 Connector (6 pins) BR**

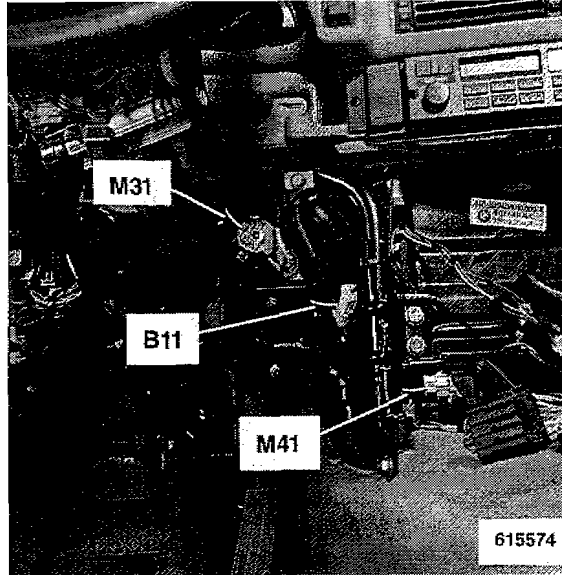
**X271 Connector (12 pins) GR**

**X502 Connector (26 pins) WS**



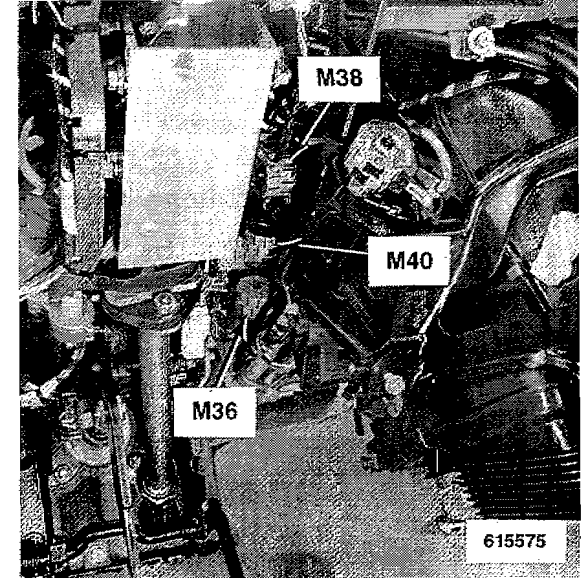
**Figure 1- Below LH Side Of Dash**

**S8507 Kick-Down Switch**



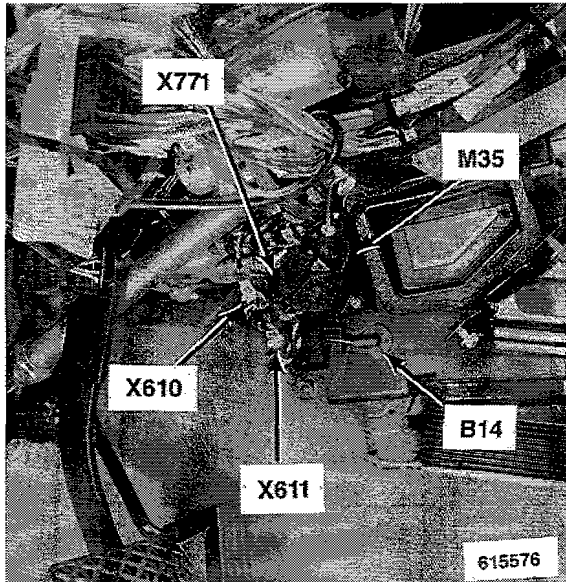
**Figure 2- Below LH Center Of Dash**

**B11 Heat Exchanger Temperature  
Sensor, LH**  
**M31 Left Footwell Flap Motor**  
**M41 Rear Compartment Flap Motor**



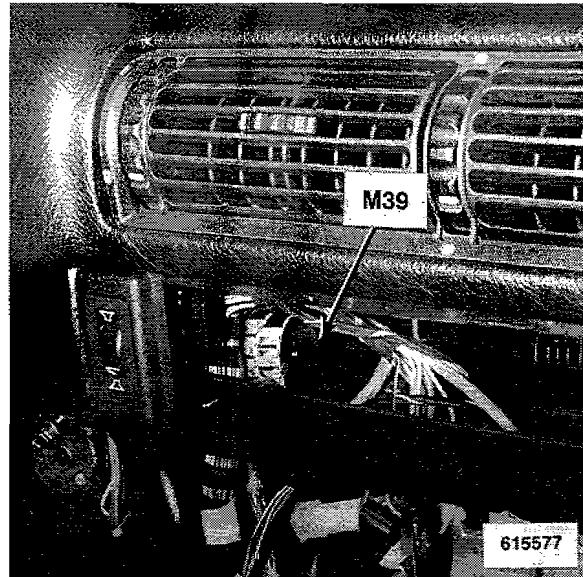
**Figure 3- Below LH Side Of Dash, Right  
Of Steering Column**

**M36 Fresh Air Flap Motor**  
**M38 Left Ventilation Flap Motor**  
**M40 Air Circulation Flap Motor**



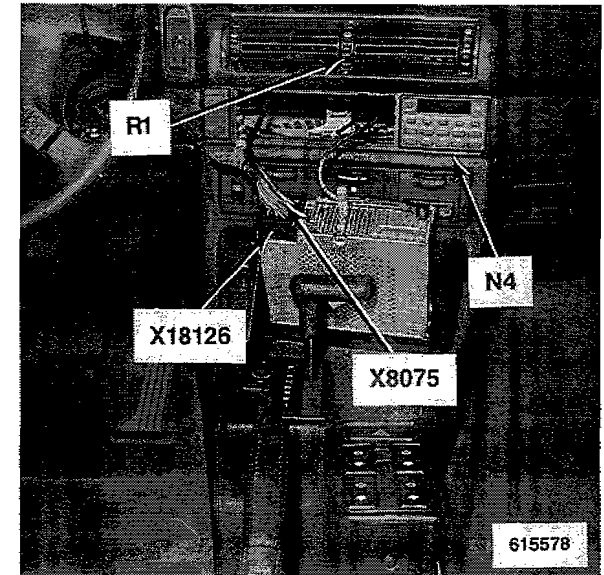
**Figure 1- Below LH Side Of Dash, Right Of Steering Column**

- B14** Evaporator Temperature Sensor
- M35** Defroster Flap Motor
- X610** Connector (26 pins) WS
- X611** Connector (26 pins) GN
- X771** Connector (2 pins) SW



**Figure 2- Center Of Dash (Radio Removed)**

- M39** Left Mixing Flap Motor



**Figure 3- Center Of Dash**

- N4** On-Board Computer
- R1** Temperature Distribution Potentiometer
- X8075** Connector (13 pins) WS
- X18126** Connector (17 pins) SW



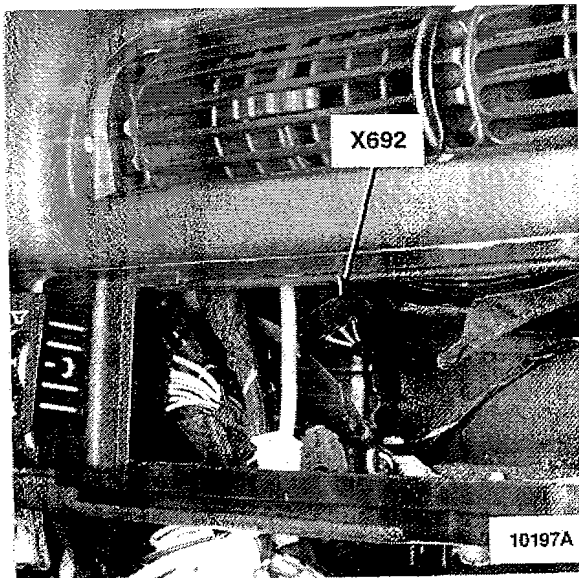


Figure 1- Center Of Dash (Radio Removed)

X692 Connector (3 pins) SW

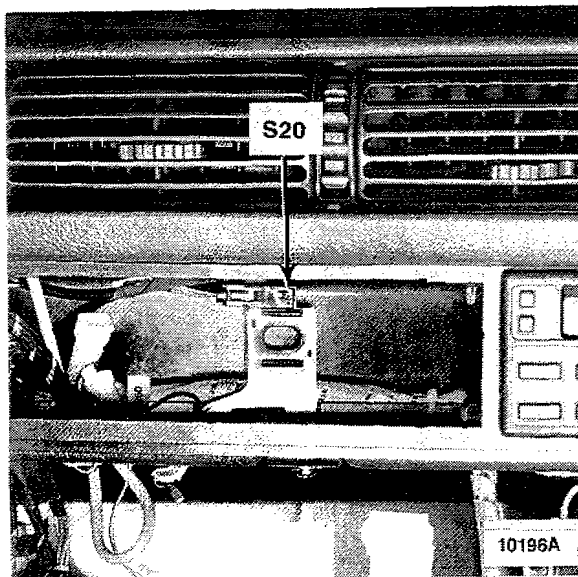


Figure 2- Center Of Dash (Radio Removed)

S20 Radio Antitheft Switch (DWA)

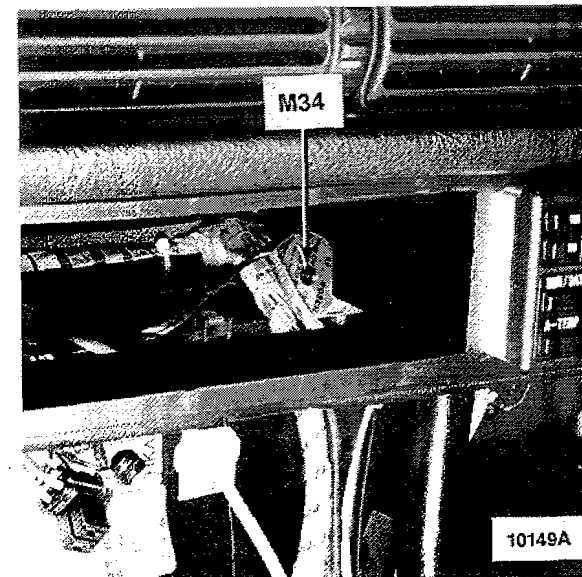
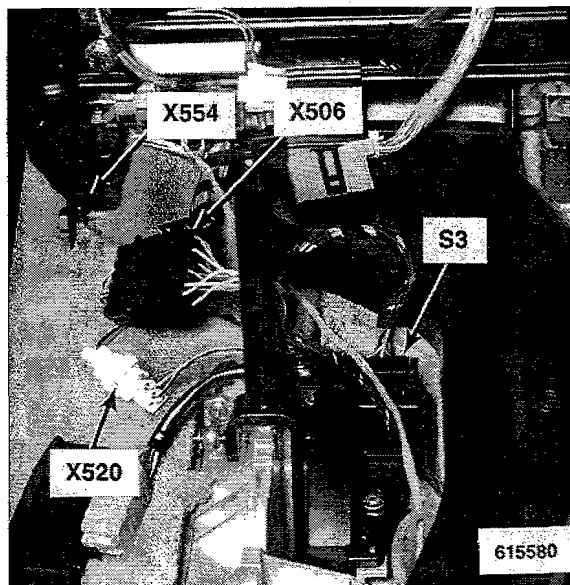


Figure 3- Center Of Dash (Radio Removed)

M34 Right Mixing Flap Motor



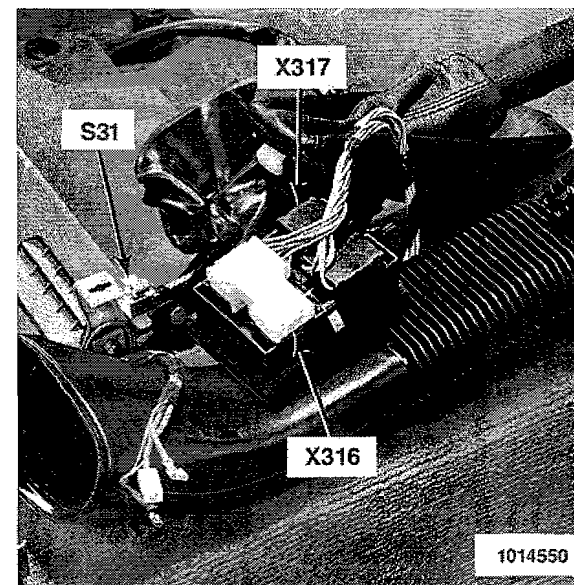
**Figure 1- Below Center Console (Console Removed)**

- S3 Automatic Transmission Range Switch**
- X506 Connector (12 pins) SW**
- X520 Connector (3 pins) WS**
- X554 Connector (1 pins) SW**



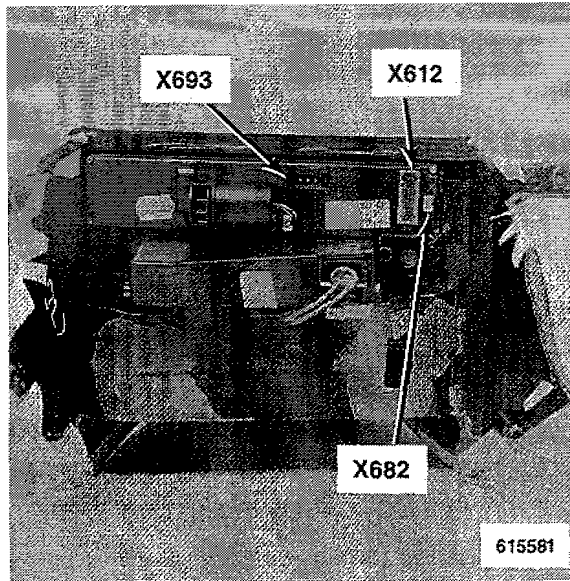
**Figure 2- Center Of Center Console**

- X546 Connector (2 pins)**



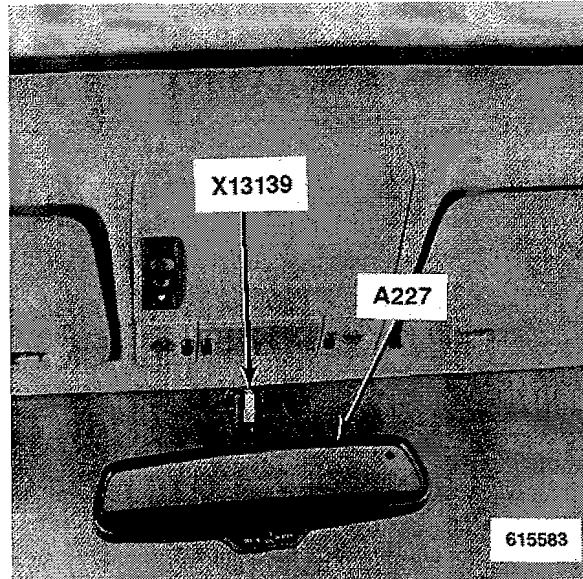
**Figure 3- Below Rear Of Center Console (Console Removed)**

- S31 Park Brake Switch**
- X316 Connector (6 pins) WS**
- X317 Connector (6 pins) SW**



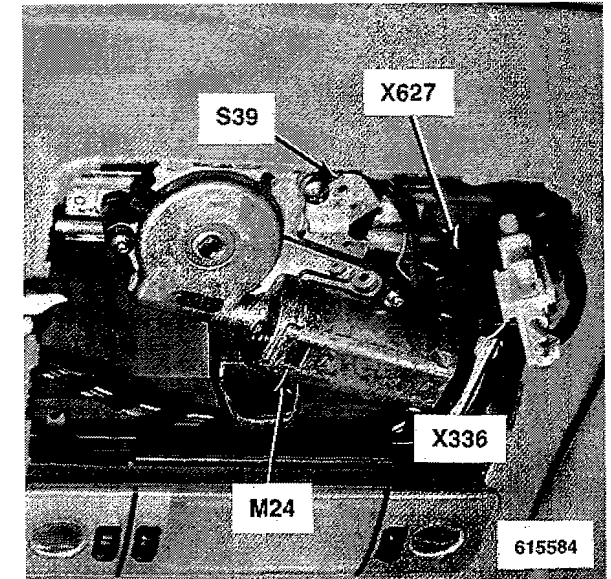
**Figure 1- Front Of Center Console (Removed)**

- X612 Connector (26 pins) BL**
- X682 Connector (3 pins) WS**
- X693 Connector (3 pins) SW**



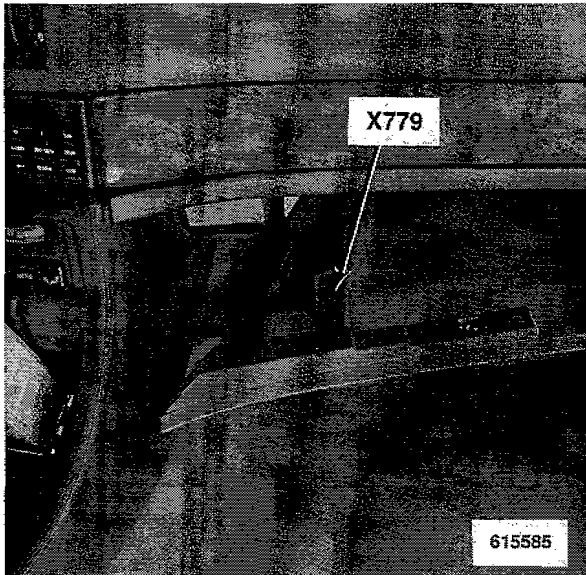
**Figure 2- Center Of Windshield Header**

- A227 Electrochromic Mirror**
- X13139 Connector (10 pins) GE**



**Figure 3- Center Of Windshield Header**

- M24 Sunroof Motor**
- S39 Sunroof Position Switch**
- X336 Connector (4 pins) WS**
- X627 Connector (8 pins) SW**



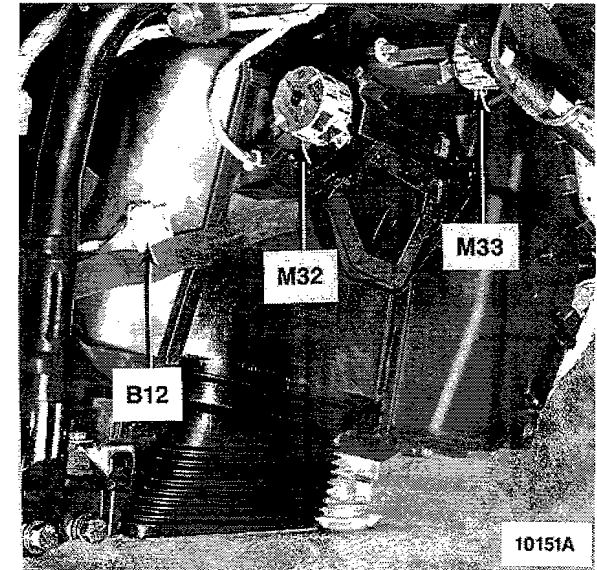
**Figure 1- LH Side Of Glove Box**

**X779 Charging Socket**



**Figure 2- LH Side Of Glove Box**

**S37 Glove Box Light Switch**

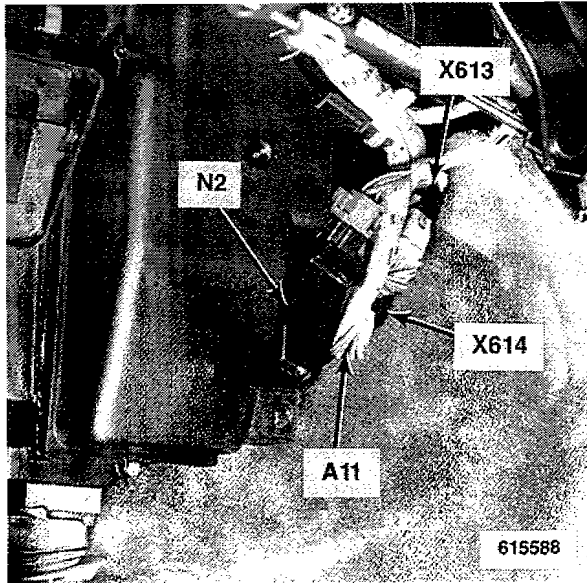


**Figure 3- LH Side Of Passenger's Footwell**

**B12 RH Heat Exchanger  
Temperature Sensor**

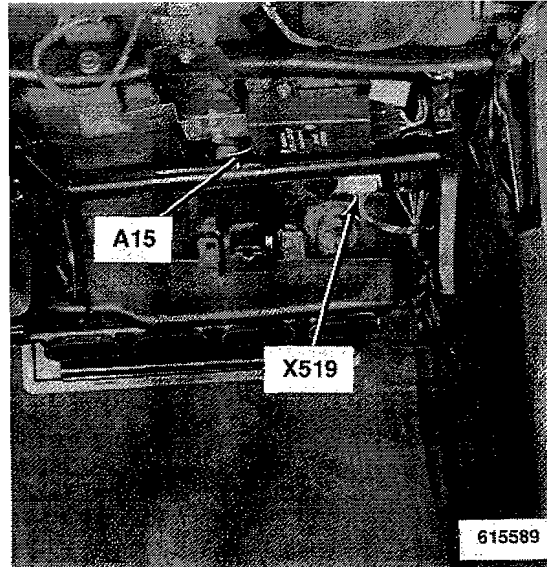
**M32 Right Footwell Flap Motor**

**M33 Right Ventilation Flap Motor**



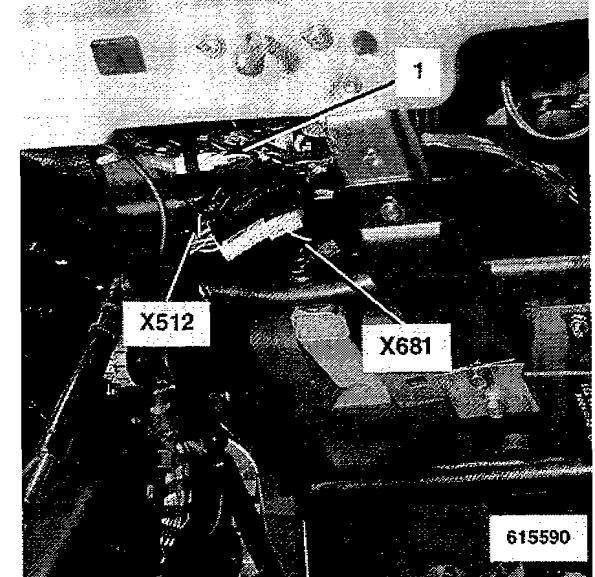
**Figure 1- LH Side Of Passenger's Footwell**

- A11 Automatic Heating/AC Control Module (IHKA)**
- N2 Final Stage Unit**
- X613 Connetor (26 pins) BL**
- X614 Connector (26 pins) GE**



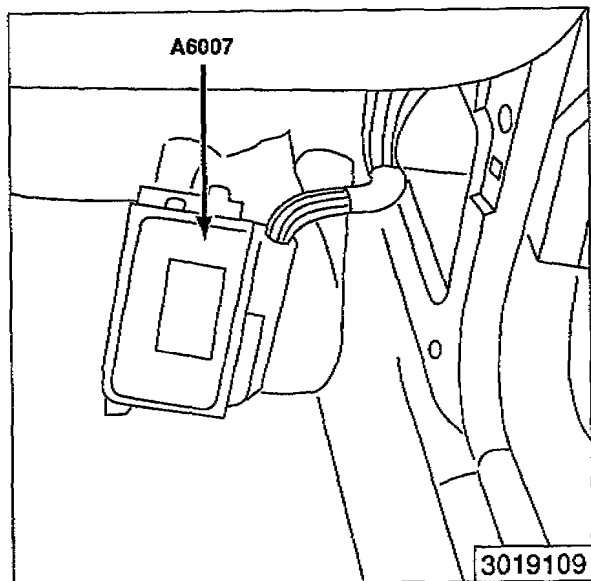
**Figure 2- Above Glove Box**

- A15 Park Ventilation Relay Box**
- X519 Connector (4 pins) WS**



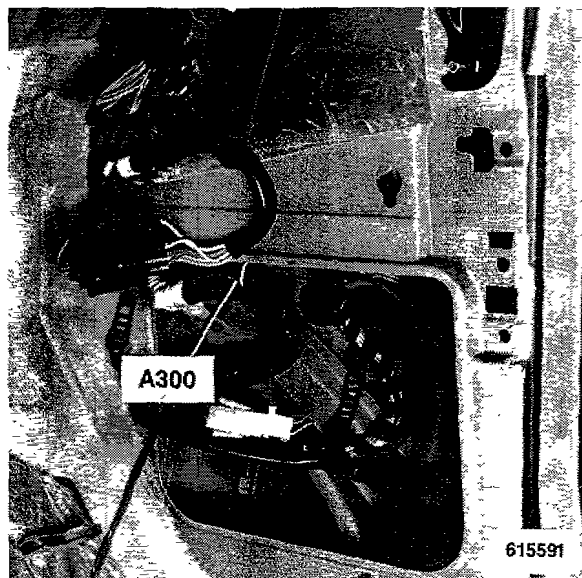
**Figure 3- Above Glove Box**

- 1 Diode**
- X512 Connector (8 pins) SW**
- X681 Connector (3 pins) WS**



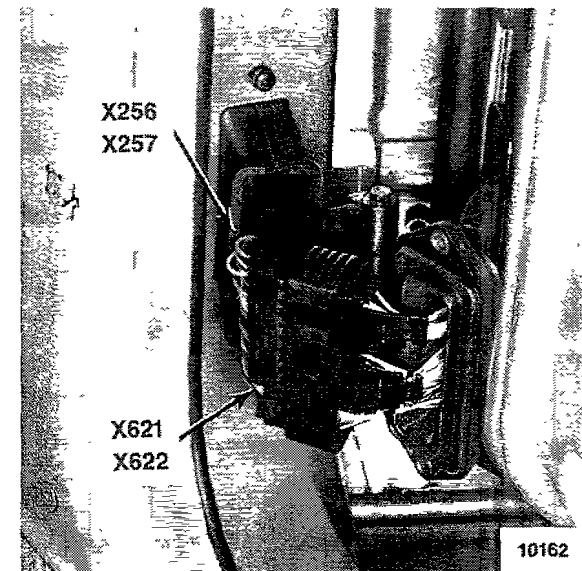
**Figure 1- Behind RH Kick Panel (740i/L)**

**A6007 Electronic Throttle Control Module (ADS II)**



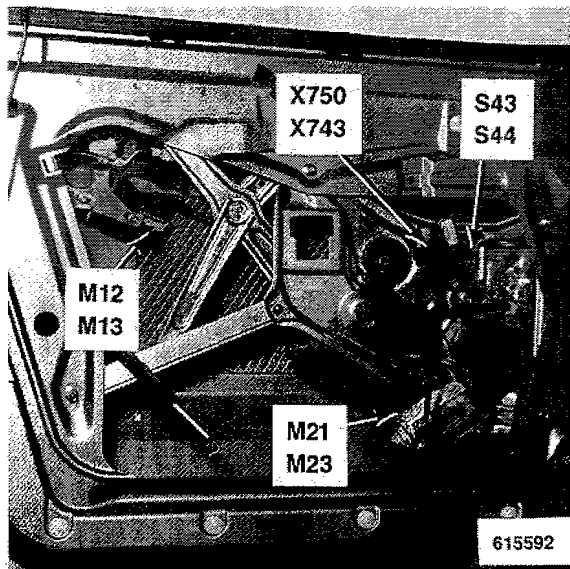
**Figure 2- Behind RH Kick Panel (750iL)**

**A300 Transmission Control Module (EGS)**



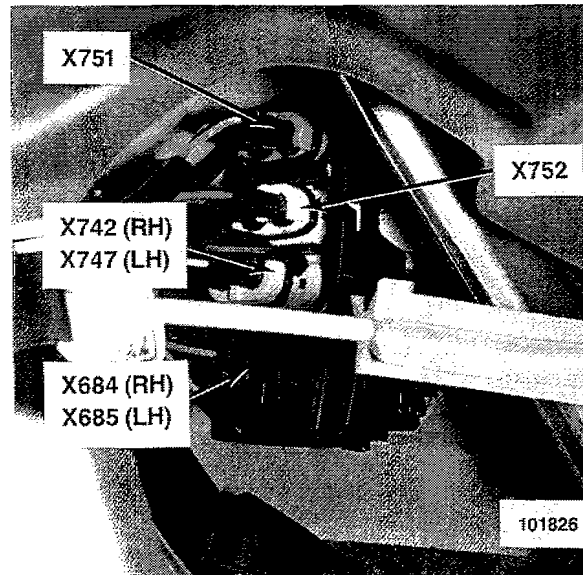
**Figure 3- Front Of Passenger's Door Jamb (Driver's Similar)**

**X256 Connector (RH) (26 pins) SW**  
**X257 Connector (LH) (26 pins) SW**  
**X621 Connector (RH) (10 pins) SW**  
**X622 Connector (LH) (10 pins) SW**



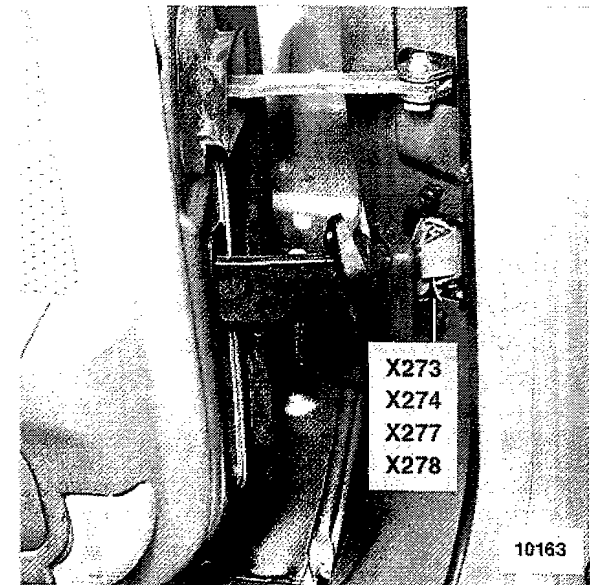
**Figure 1- Behind Driver's Door Panel  
(Passenger's Similar)**

- M12 Driver's Door Lock Motor**
- M13 Passenger's Door Lock Motor**
- M21 Driver's Window Motor**
- M23 Passenger's Window Motor**
- S43 Driver's Window Limit Switch**
- S44 Passenger's Window Limit Switch**
- X743 Connector (2 pins) SW**
- X750 Connector (2 pins) SW**



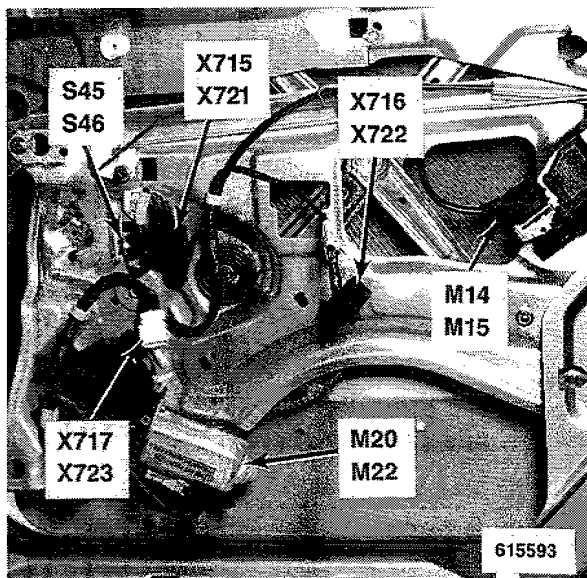
**Figure 2- In Rear Of Driver's Door  
(Passenger's Similar)**

- X684 Connector (RH) (3 pins) SW**
- X685 Connector (LH) (3 pins) SW**
- X742 Connector (LH) (2 pins) GE**
- X747 Connector (RH) (2 pins) GE**
- X751 Connector (2 pins) WS**
- X752 Connector (2 pins) WS**



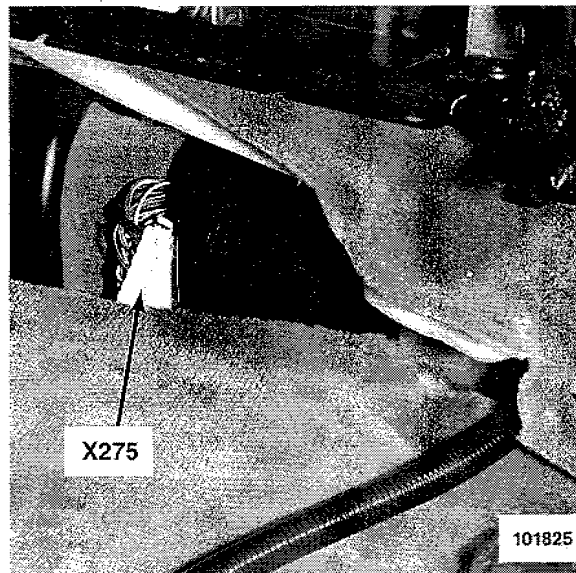
**Figure 3- Front Of LH Rear Door Jamb  
(RH Rear Similar)**

- X273 Connector (LH) (12 pins) SW**
- X274 Connector (RH) (12 pins) SW**
- X277 Connector (LH) (10 pins) SW**
- X278 Connector (RH) (10 pins) SW**



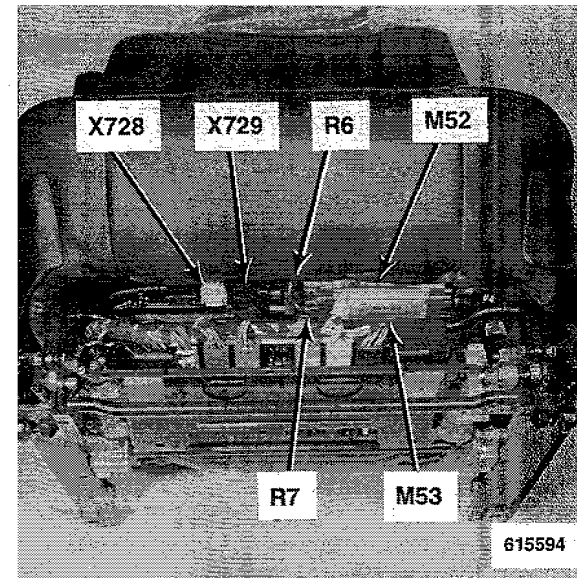
**Figure 1- RH Rear Door (LH Rear Similar)**

- M14 Right Rear Door Lock Motor**
- M15 Left Rear Door Lock Motor**
- M20 Left Rear Window Motor**
- M22 Right Rear Window Motor**
- S45 Left Rear Window Limit Switch**
- S46 Right Rear Window Limit Switch**
- X715 Connector (LH) (2 pins) SW**
- X716 Connector (LH) (2 pins) SW**
- X717 Connector (LH) (2 pins) SW**
- X721 Connector (RH) (2 pins) SW**
- X722 Connector (RH) (2 pins) SW**
- X723 Connector (RH) (2 pins) WS**



**Figure 2- Below Driver's Seat (With Memory Seats)**

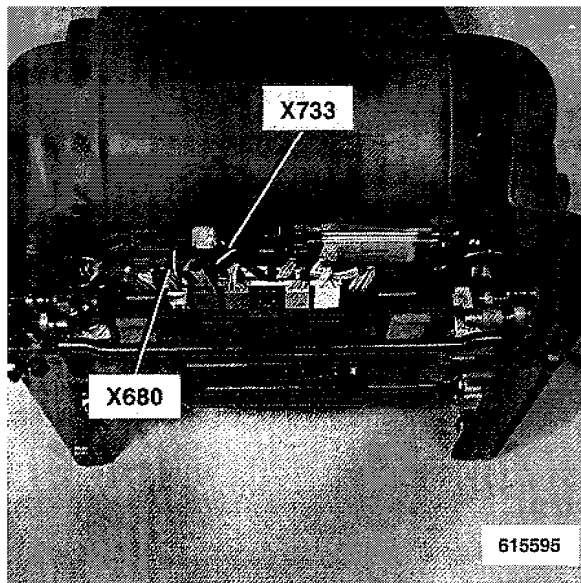
- X275 Connector (12 pins) WS**



**Figure 3- Under Front Of Driver's Seat**

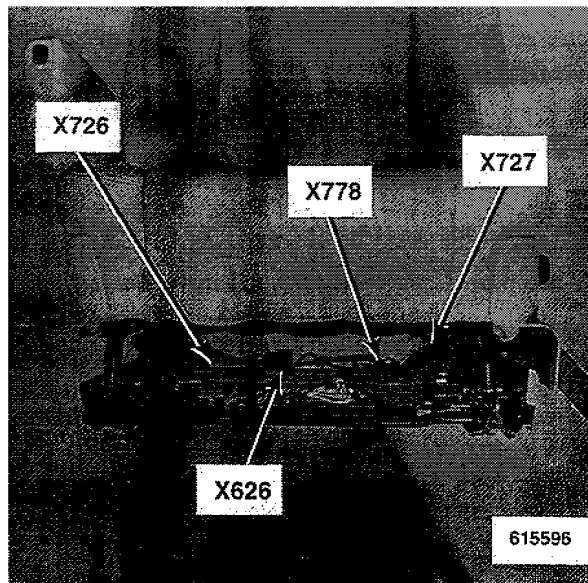
- M52 Driver's Seat Height Motor**
- M53 Driver's Seatback Recliner Motor**
- R6 Seat Height Potentiometer (BEHIND)**
- R7 Seatback Potentiometer**
- X728 Connector (2 pins) WS**
- X729 Connector (2 pins) SW**





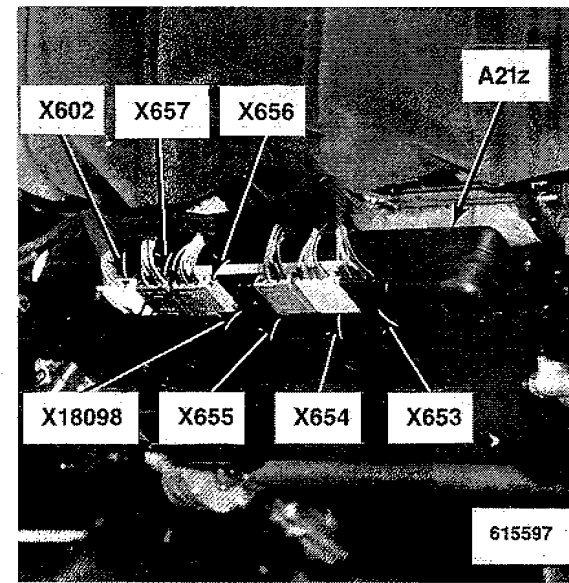
**Figure 1- Under Front Of Driver's Seat**

- X680 Connector (3 pins) SW**
- X733 Connector (2 pins) WS**



**Figure 2- Under Driver's Seat**

- X626 Connector (12 pins) SW**
- X726 Connector (2 pins) WS**
- X727 Connector (2 pins) SW**
- X778 Connector (2 pins) SW**



**Figure 3- Under Front Of Driver's Seat**

- A21z Seat/Mirror/Steering Column  
Memory Control Module**
- X602 Connector (26 pins) WS**
- X653 Connector (6 pins) SW**
- X654 Connector (6 pins) WS**
- X655 Connector (6 pins) BL**
- X656 Connector (6 pins) GN**
- X657 Connector (6 pins) BR**
- X18098 Connector (6 pins) GE**

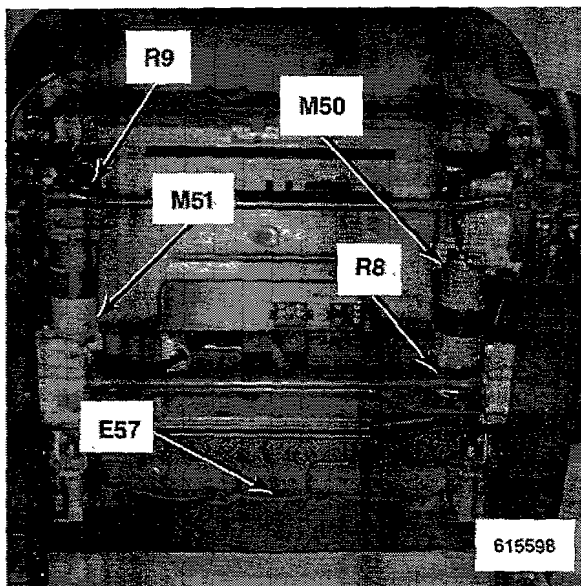


Figure 1- Under Driver's Seat

- E57** Driver's Seat Heater (Inside Seat)
- M50** Driver's Seat Cushion Tilt Motor
- M51** Driver's Seat Movement Motor
- R8** Seat Cushion Rear Height Potentiometer
- R9** Seat Cushion Movement Potentiometer

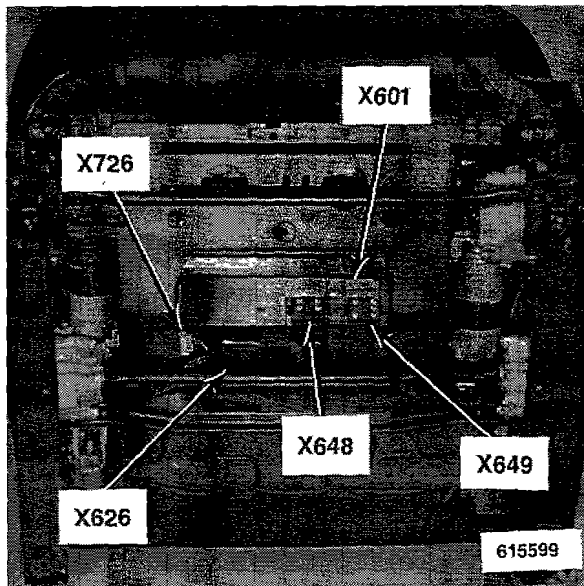


Figure 2- Under Driver's Seat

- X601** Connector (26 pins) GE
- X626** Connector (12 pins) SW
- X648** Connector (6 pins) SW
- X649** Connector (6 pins) WS
- X726** Connector (2 pins) WS

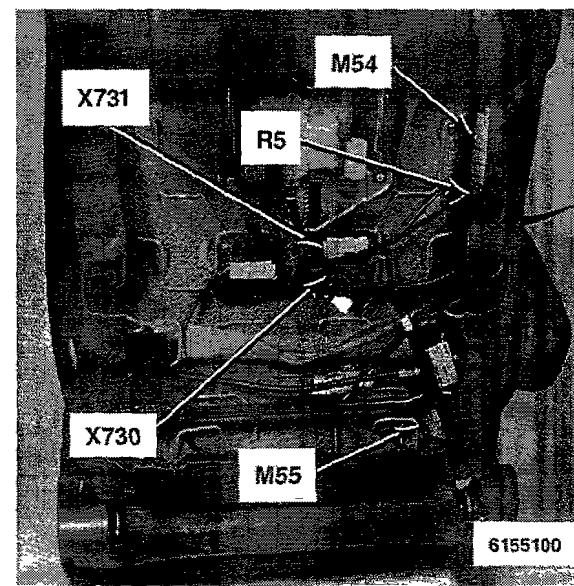
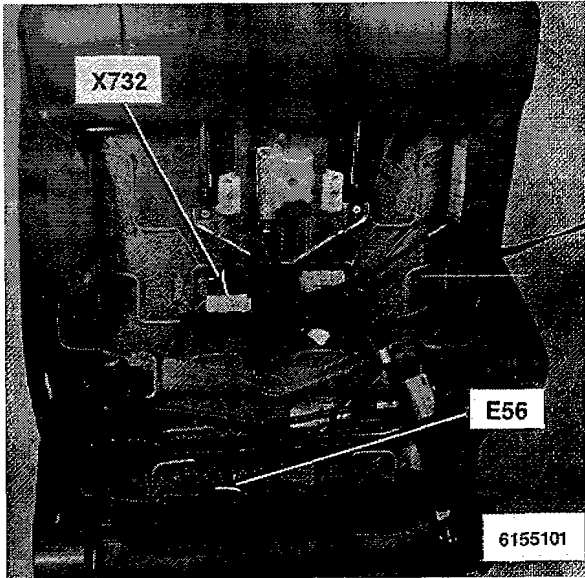


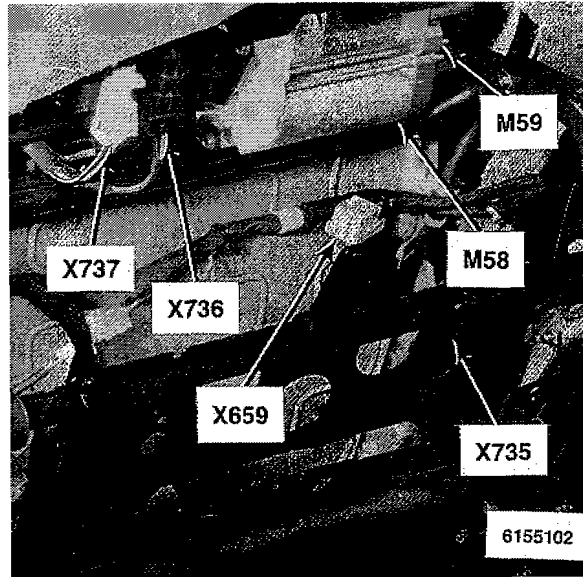
Figure 3- Inside Driver's Seatback

- M54** Driver's Headrest Motor
- M55** Driver's Seat Lumbar Support Motor
- R5** Headrest Potentiometer
- X730** Connector (2 pins) SW
- X731** Connector (2 pins) WS



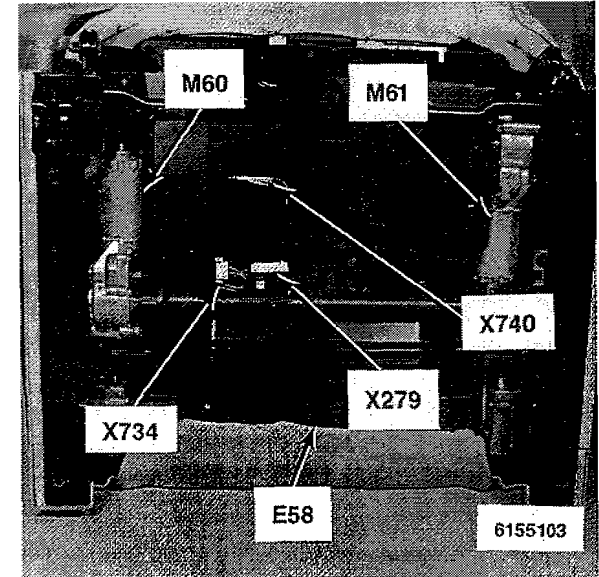
**Figure 1- Inside Driver's Seatback**

- E56 Driver's Seatback Heater (Inside Seatback)**
- X732 Connector (2 pins) WS**



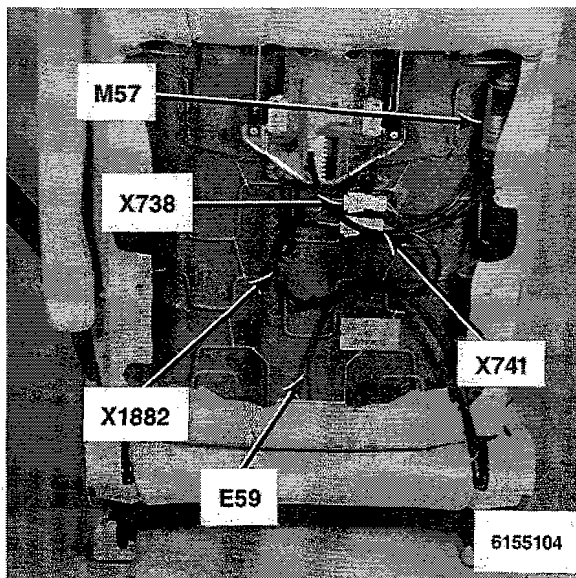
**Figure 2- Under Front Of Passenger's Seat**

- M58 Passenger's Seatback Recliner Motor**
- M59 Passenger's Seat Height Motor**
- X659 Connector (6 pins) BL**
- X735 Connector (2 pins) SW**
- X736 Connector (2 pins) SW**
- X737 Connector (2 pins) WS**

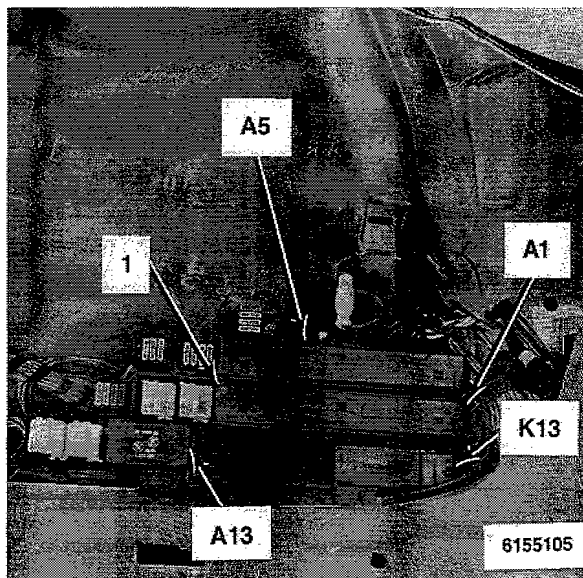


**Figure 3- Under Passenger's Seat**

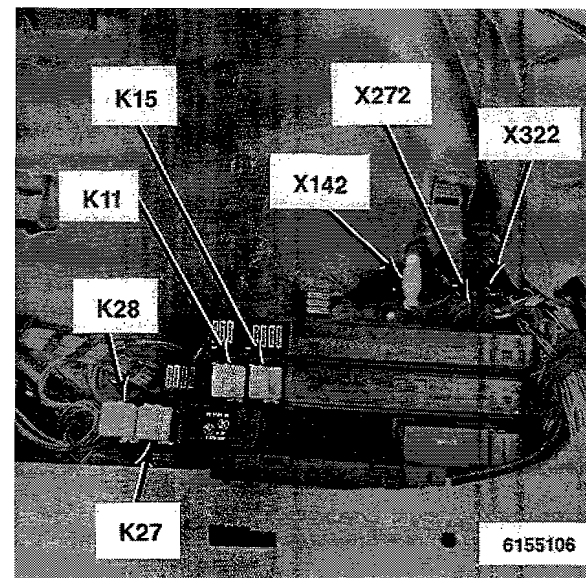
- E58 Passenger's Seat Heater (Inside Seat)**
- M60 Passenger's Seat Movement Motor**
- M61 Passenger's Seat Cushion Tilt Motor**
- X279 Connector (12 pins) WS**
- X734 Connector (2 pins) WS**
- X740 Connector (2 pins) WS**


**Figure 1- Inside Passenger's Seat Back**

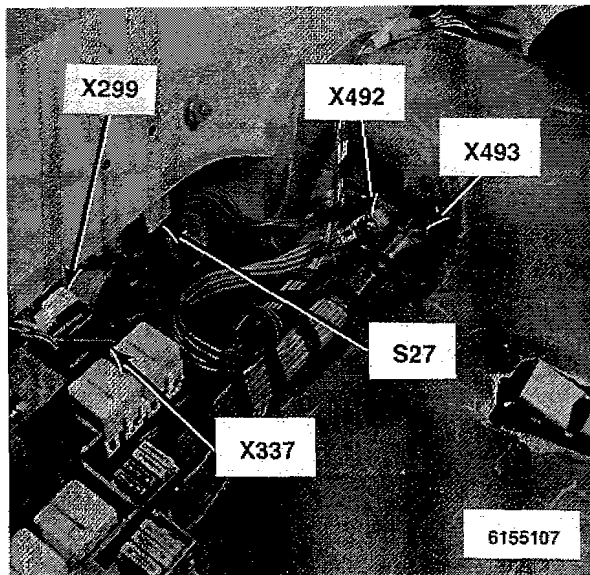
- E59 Passenger's Seatback Heater (Inside Seatback)**
- M57 Passenger's Seat Headrest Motor**
- X738 Connector (2 pins) WS**
- X741 Connector (2 pins) WS**
- X1882 Connector (2 pins) SW**


**Figure 2- Below LH Side Of Rear Seat (750iL Shown; 740i/L Similar)**

- 1 Rear Power Distribution Box**
- A1 General Module**
- A5 Relay Module**
- A13 Rear Headrest Control Module**
- K13 Rear Defogger Relay**


**Figure 3- Below LH Side Of Rear Seat (750iL Shown; 740i Similar)**

- K11 Wiper Relay**
- K15 Electric Power Protection Relay**
- K27 Left Rear Seat Heating/Position Relay**
- K28 Right Rear Seat Heating/Position Relay**
- X142 Connector (2 pins) WS**
- X272 Connector (12 pins) SW**
- X322 Connector (8 pins) SW**



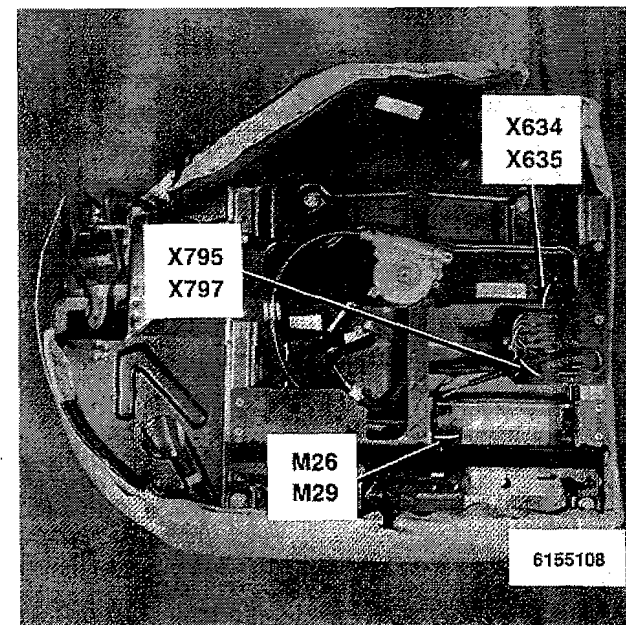
**Figure 1- Below LH Side Of Rear Seat  
(750iL Shown; 740i/L Similar)**

- S27 Inertia Switch**
- X299 Connector (6 pins) WS**
- X337 Connector (8 pins) SW**
- X492 Ground**
- X493 Ground**



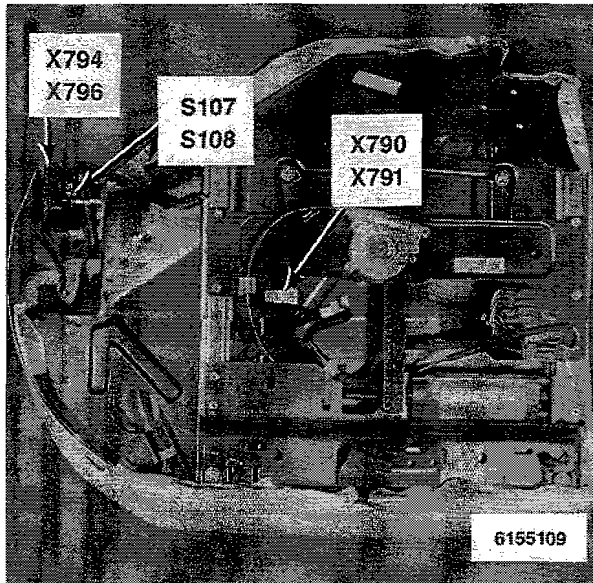
**Figure 2- Below LH Side Of Rear Seat  
(Rear Power Distribution Box  
Removed)**

- K91 On-Board Computer Horn Relay**



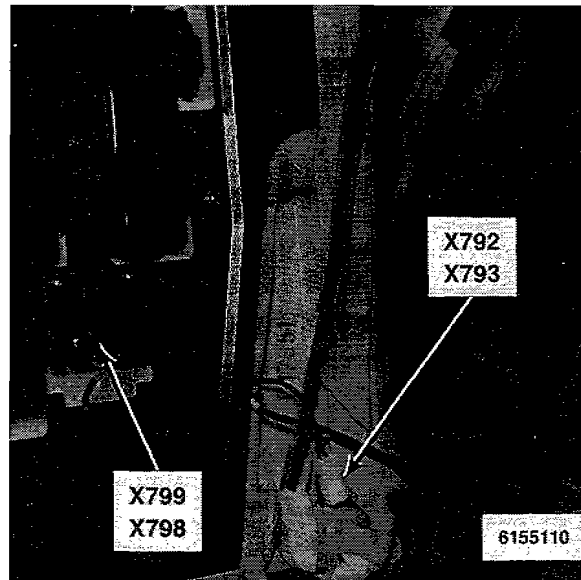
**Figure 3- Underside Of LH Rear Seat (RH  
Rear Similar) (Removed)**

- M26 Left Rear Seat Movement  
Motor**
- M29 Right Rear Seat Movement  
Motor**
- X634 Connector (RH) (6 pins) WS**
- X635 Connector (LH) (6 pins) SW**
- X795 Connector (LH) (2 pins) SW**
- X797 Connector (RH) (2 pins) SW**



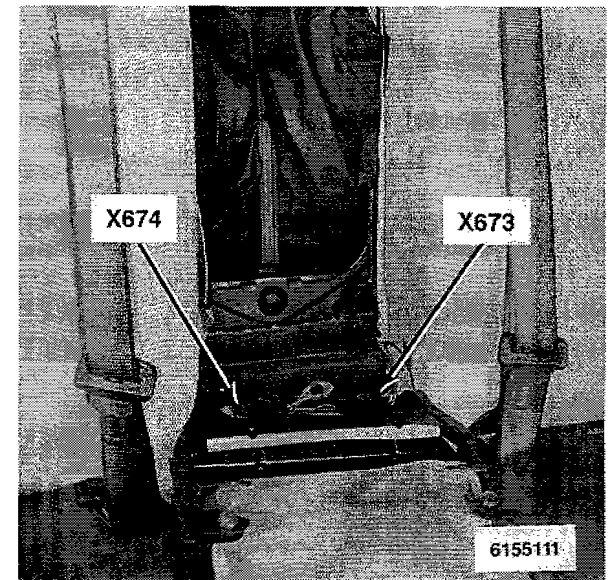
**Figure 1- Underside Of LH Rear Seat (RH Rear Similar) (Removed)**

- S107 Left Rear Seat Belt Contact**
- S108 Right Rear Seat Belt Contact**
- X790 Connector (LH) (2 pins) WS**
- X791 Connector (RH) (2 pins) WS**
- X794 Connector (LH) (2 pins) SW**
- X796 Connector (RH) (2 pins) SW**



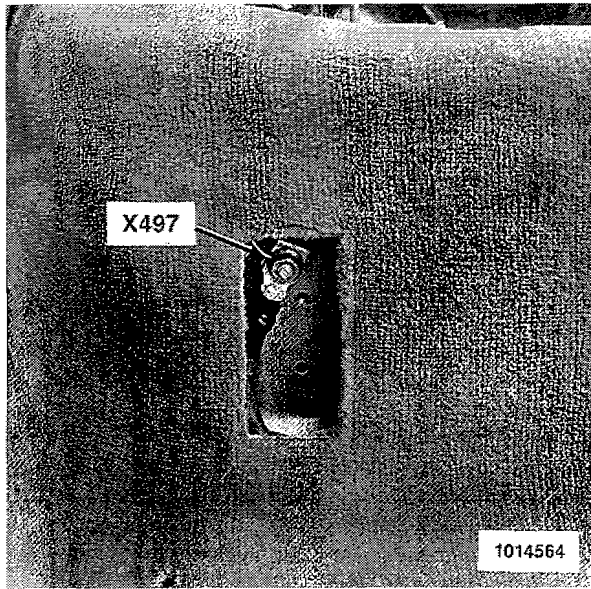
**Figure 2- Rear Of LH Rear Seatback (RH Rear Similar)**

- X792 Connector (LH) (2 pins) WS**
- X793 Connector (RH) (2 pins) WS**
- X798 Connector (RH) (2 pins) SW**
- X799 Connector (LH) (2 pins) SW**

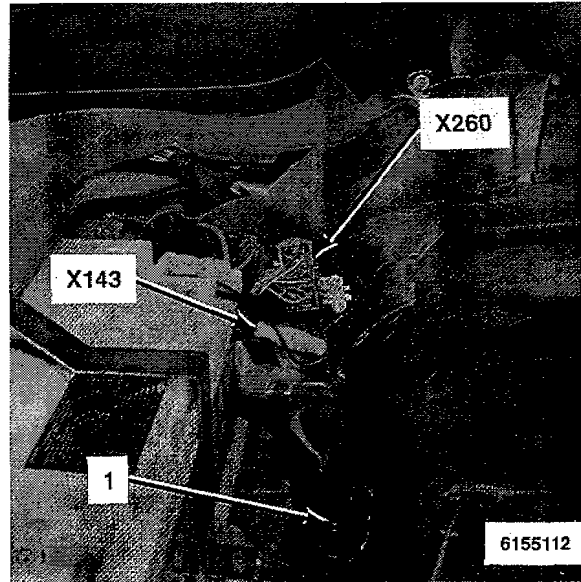


**Figure 3- Center Of Rear Seat**

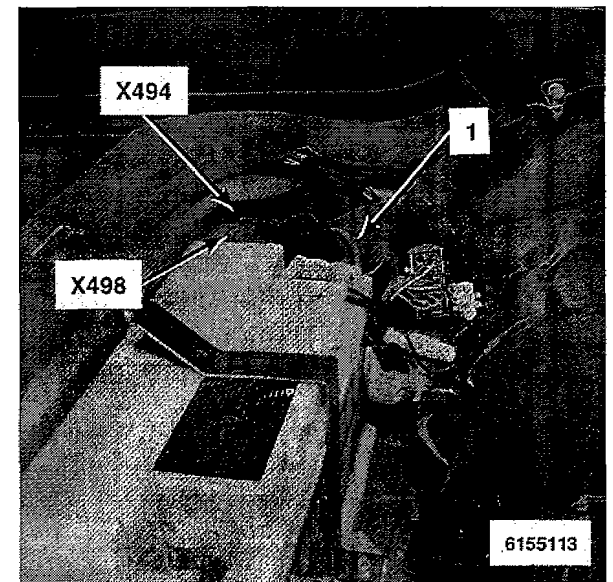
- X673 Connector (4 pins) SW**
- X674 Connector (4 pins) SW**



**Figure 1- Ahead Of RH Side Of Rear Seat**  
**X497 Ground (Battery)**



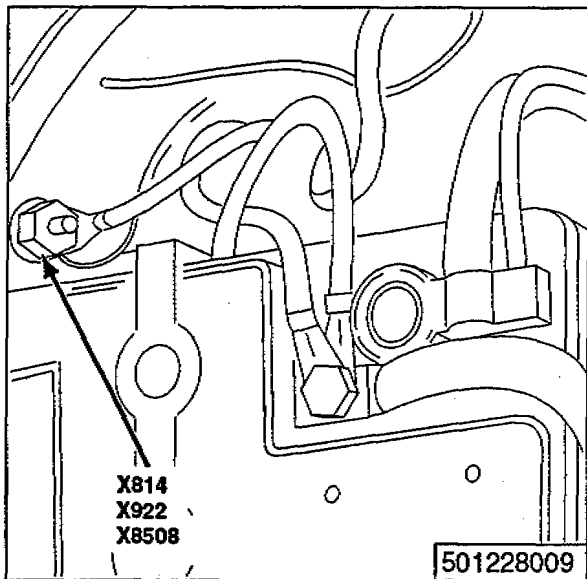
**Figure 2- Below RH Side Of Rear Seat**  
**1 Fusible Link B (80A)**  
**X143 Connector (2 pins) WS**  
**X260 Connector (21 pins) SW**



**Figure 3- Below RH Side Of Rear Seat**  
**1 Fusible Link A (50A) RT**  
**X494 Ground**  
**X498 Ground**

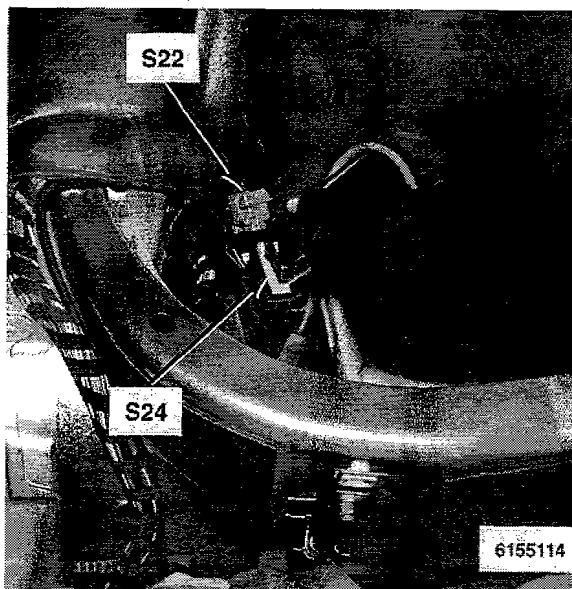


# COMPONENT LOCATION VIEWS



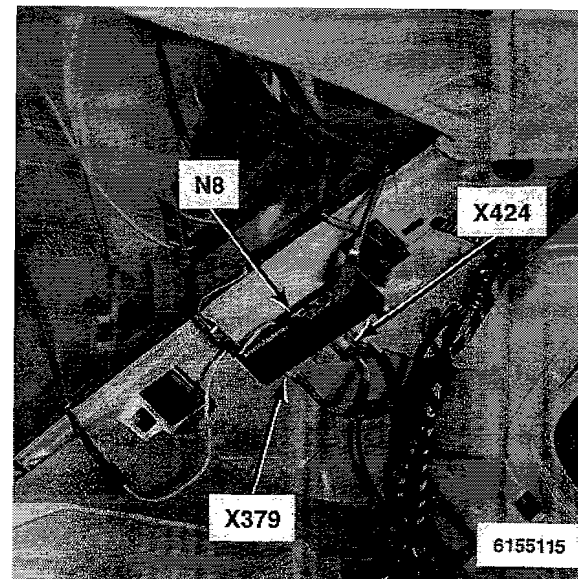
**Figure 1- Below RH Side Of Rear Seat**

- X814 Ground
- X922 Ground
- X8508 Ground



**Figure 2- Below RH Side Of Rear Seat**

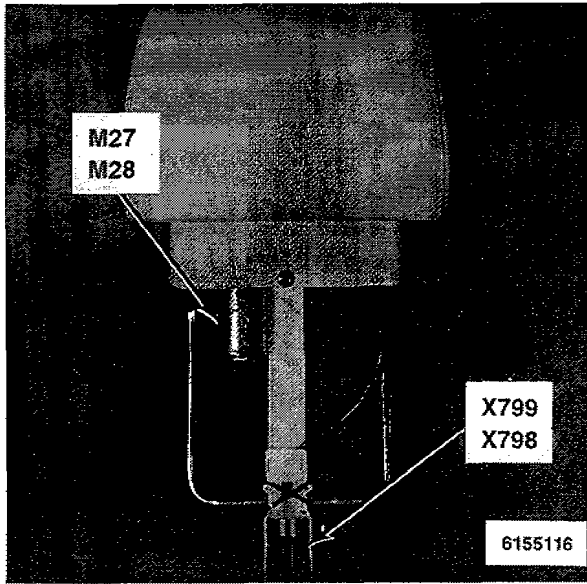
- S22 Battery Switch (DWA)
- S24 Rear Seat Switch



**Figure 3- In LH "C" Pillar**

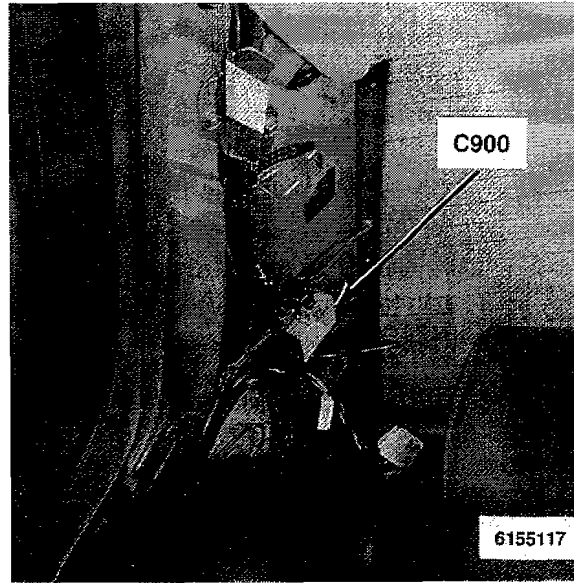
- N8 Antenna Amplifier AM/FM
- X379 Connector (1 pin) SW
- X424 Connector (1 pin) BR





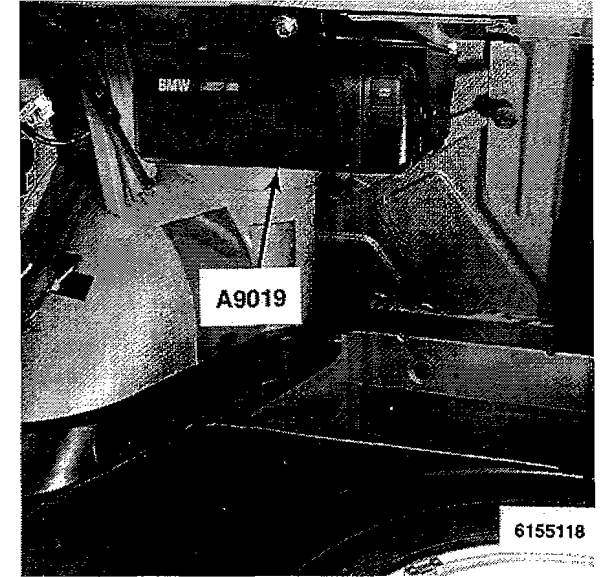
**Figure 1- LH Rear Headrest (RH Rear Similar) (Removed)**

- M27 Left Rear Headrest Motor**
- M28 Right Rear Headrest Motor**
- X798 Connector (RH) (2 pins) SW**
- X799 Connector (LH) (2 pins) SW**



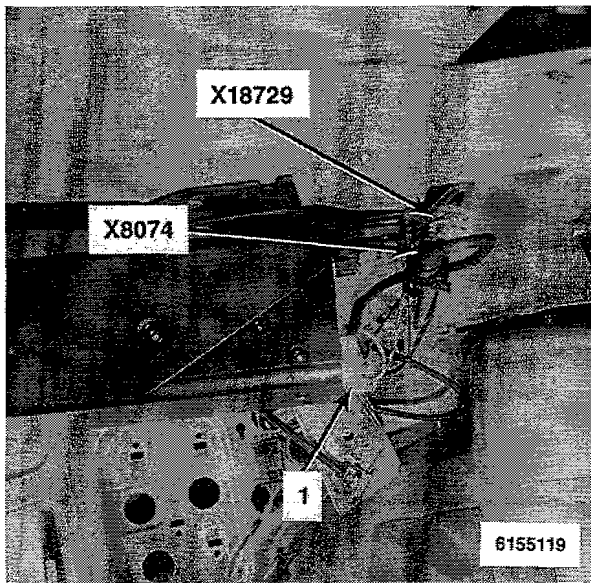
**Figure 2- In RH "C" Pillar**

- C900 Suppression Filter**



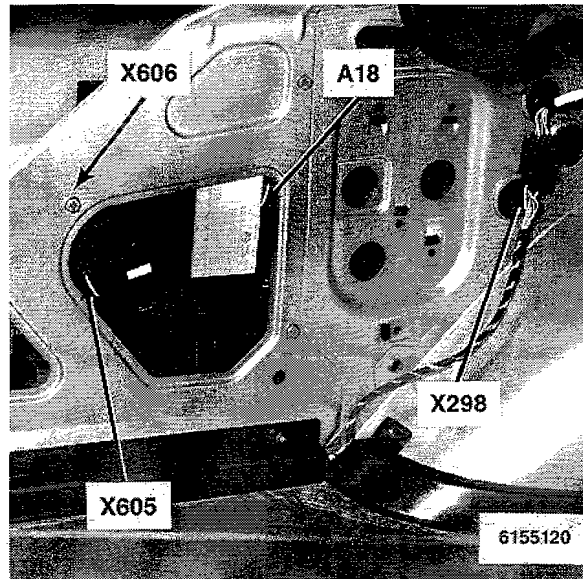
**Figure 3- LH Front Of Luggage Compartment**

- A9019 CD Changer**



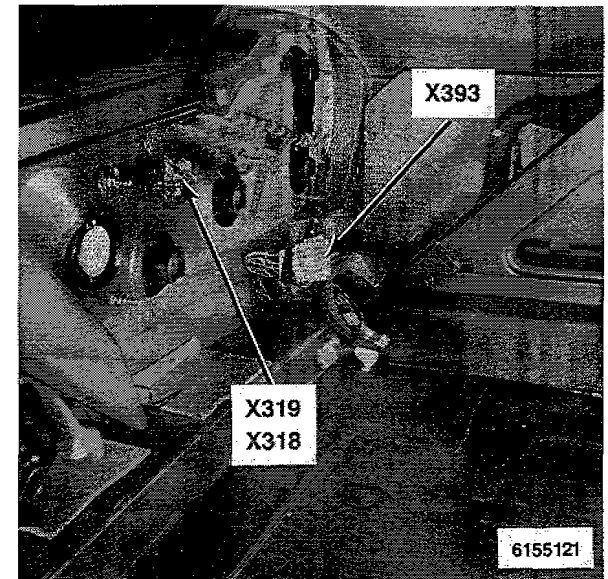
**Figure 1- LH Front Of Luggage Compartment**

- 1 FD 3A
- X8074 Connector (14 pins) SW
- X18729 Connector (3 pins) WS



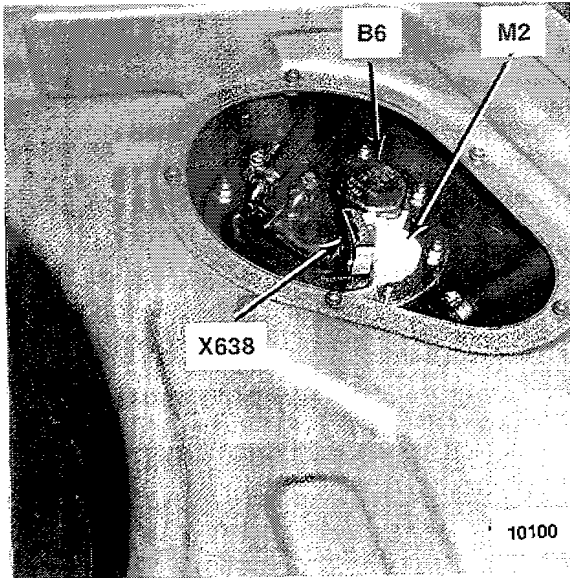
**Figure 2- LH Side Of Luggage Compartment**

- A18 HIFI Amplifier
- X298 Connector (8 pins) SW
- X605 Connector (12 pins) SW
- X606 Connector (12 pins) WS (Behind Panel)



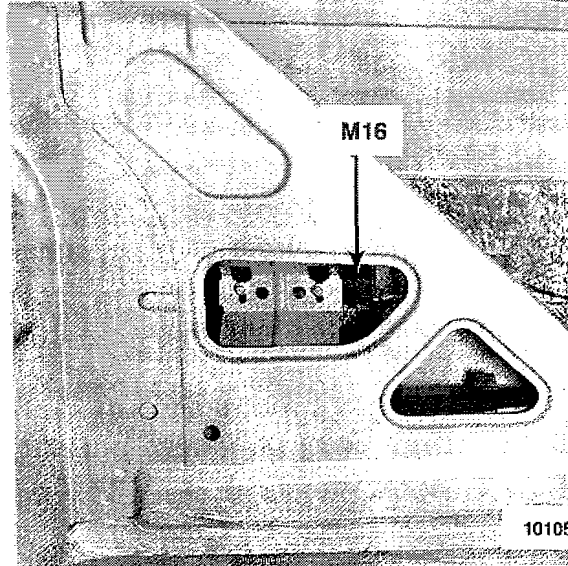
**Figure 3- LH Rear Corner Of Luggage Compartment (RH Rear Similar)**

- X318 Connector (RH) (6 pins) SW
- X319 Connector (LH) (6 pins) SW
- X393 Connector (6 pins) WS



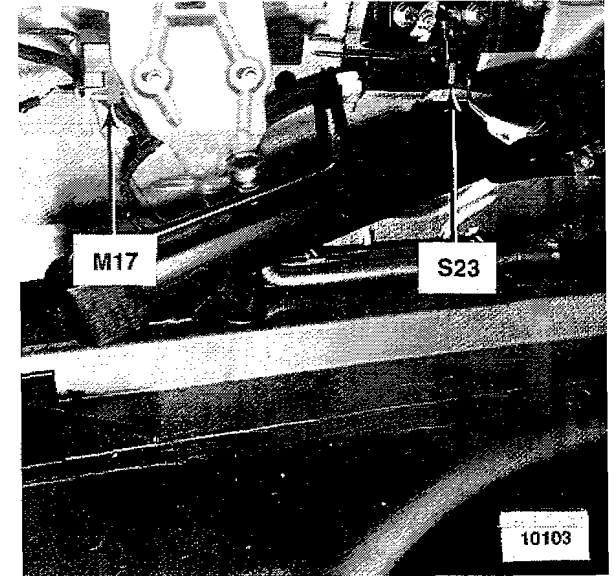
**Figure 1- RH Side Of Luggage Compartment**

- B6 Fuel Level Sensor**
- M2 Fuel Pump (In Tank)**
- X638 Connector (6 pins) SW**



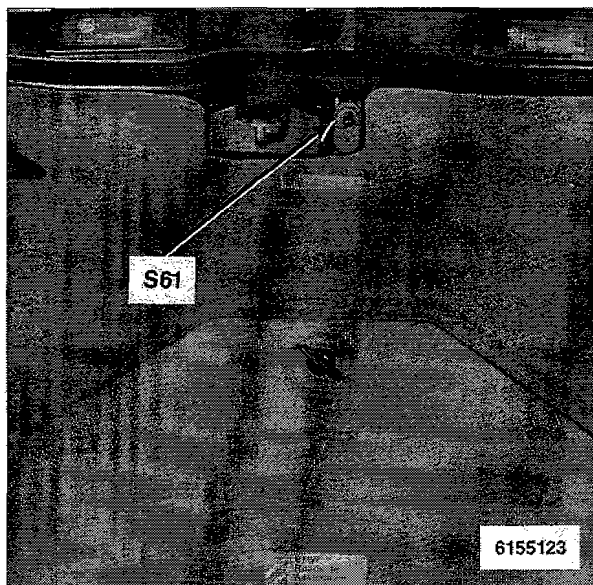
**Figure 2- RH Side Of Luggage Compartment**

- M16 Gas Filler Lock Motor**

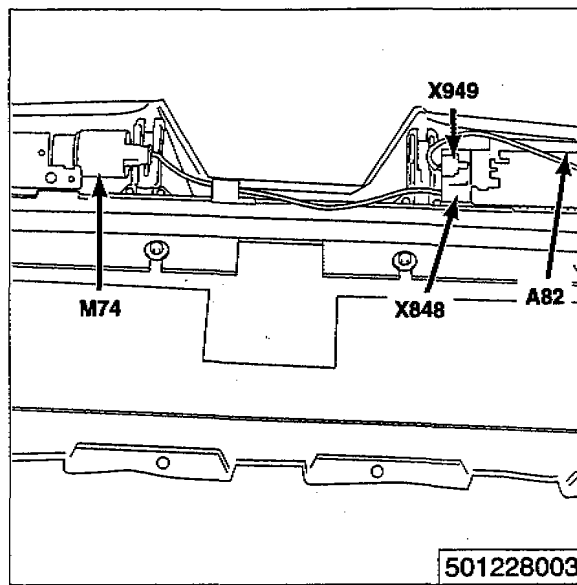


**Figure 3- In Luggage Compartment, On Rear Panel**

- M17 Trunk Lock Motor**
- S23 Trunk Lock Switch (DWA)**

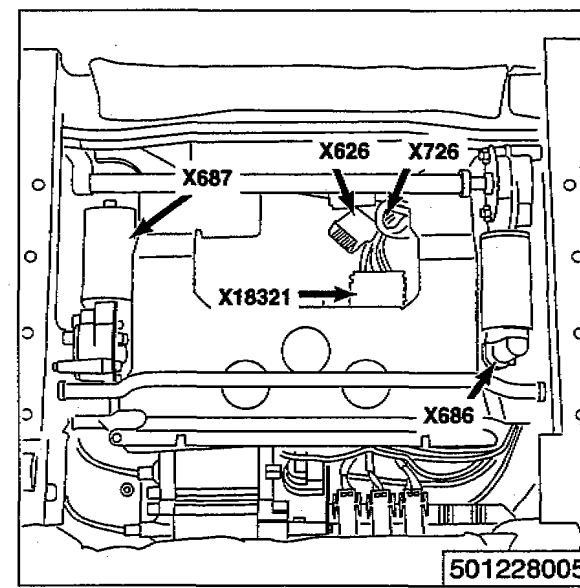


**Figure 1- Center Rear Of Trunk Lid**  
**S61 Trunk Lid Switch**



**Figure 2 - Back Of Rear**  
**Window Shelf**

- |             |                                 |
|-------------|---------------------------------|
| <b>A82</b>  | <b>Sun Blind Control Module</b> |
| <b>M74</b>  | <b>Sun Blind Motor</b>          |
| <b>X848</b> | <b>Connector (4 pins) GN</b>    |
| <b>X949</b> | <b>Connector (5 pins) SW</b>    |

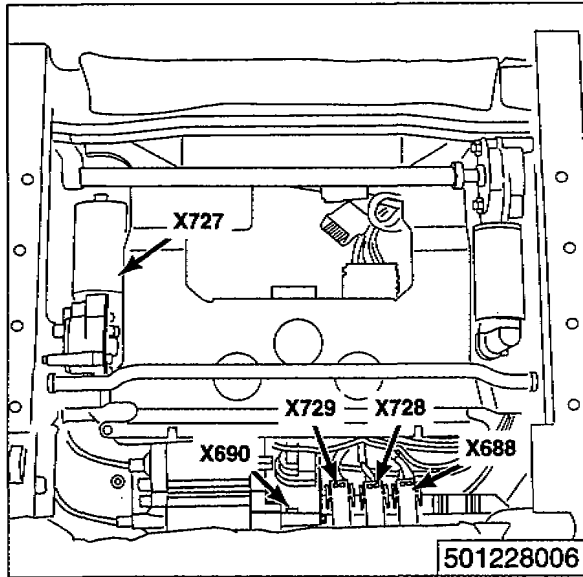


**Figure 3 - Under Driver's Seat**  
**With Memory**

- |               |                               |
|---------------|-------------------------------|
| <b>X626</b>   | <b>Connector (8 pins) SW</b>  |
| <b>X686</b>   | <b>Connector (3 pins) BL</b>  |
| <b>X687</b>   | <b>Connector (3 pins) BL</b>  |
| <b>X726</b>   | <b>Connector (2 pins) WS</b>  |
| <b>X18321</b> | <b>Connector (10 pins) SW</b> |

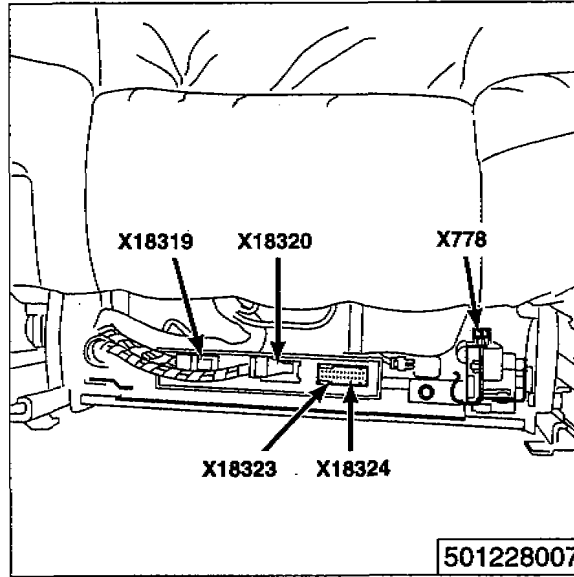


# COMPONENT LOCATION VIEWS



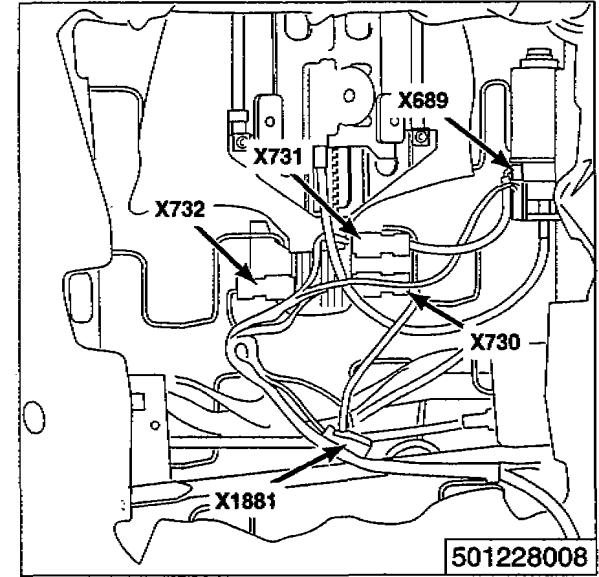
**Figure 1 - Under Driver's Seat With Memory**

- X688** Connector (3 pins) SW
- X690** Connector (3 pins) SW
- X727** Connector (2 pins) SW
- X728** Connector (2 pins) WS
- X729** Connector (2 pins) SW



**Figure 2 - Under Front Of Driver's Seat With Memory**

- X778** Connector (2 pins) SW
- X18319** Connector (18 pins) NA
- X18320** Connector (18 pins) SW
- X18323** Connector (4 pins) SW
- X18324** Connector (5 pins) SW



**Figure 3 - Inside Driver's Seat With Memory**

- X689** Connector (3 pins) BL
- X730** Connector (2 pins) SW
- X731** Connector (2 pins) WS
- X732** Connector (2 pins) NA
- X1881** Connector (2 pins) NA



# SPLICE LOCATION VIEWS

## SPLICE LOCATION INDEX

This index contains all the splices in the car, what harness each one is in, and the page that the splices appear on. The drawings after the index show how the harness is routed through the car and where the splices are located on the harness.

### Index-Splice Locations - E32 - 740i/L, 750iL

SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
X122	FRONT	8000-02	X824-X830	RADIO/HIFI/CD	NOT SHOWN
X181-X193	FRONT	8000-02	X831	SUNROOF	NOT SHOWN
X195-X206	FRONT	8000-02	X832	TRAILER ADAPT	NOT SHOWN
X209-X198	FRONT	8000-02	X833	TRUNK	NOT SHOWN
X212-X215	FRONT	8000-02	X834	LH REAR DOOR	NOT SHOWN
X217	FRONT	8000-02	X835	RH REAR DOOR	NOT SHOWN
X222-X226	FRONT	8000-02	X836	DRIVER SEAT	NOT SHOWN
X228	FRONT	8000-02	X837-X838	REAR SEAT HEATING	NOT SHOWN
X241-X243	FRONT	8000-02	X839-X843	DRIVER SEAT	NOT SHOWN
X246	FRONT	8000-02	X844-X847	PASSENGER SEAT	NOT SHOWN
X247	FRONT	8000-02	X848-X851	DRIVER DOOR	NOT SHOWN
X430-X433	REAR	8000-06	X852-X855	IHKA	8000-07
X437-X439	REAR	8000-06	X857-X859	IHKA	8000-07
X441-X470	REAR	8000-06	X863	PASSENGER DOOR	NOT SHOWN
X475-X477	REAR	8000-06	X866-X868	REAR SEAT HEATING	NOT SHOWN
X561-X567	INSTRUMENT AUTO TRANS	8000-06	X878	RADIO/HIFI/CD	NOT SHOWN
X569-X577	INSTRUMENT AUTO TRANS	8000-06	X1007	FRONT	8000-02
X580	INSTRUMENT AUTO TRANS	8000-05	X1008	FRONT	8000-02
X581	INSTRUMENT AUTO TRANS	8000-05	X1009	FRONT	8000-02
X584	INSTRUMENT AUTO TRANS	8000-05	X1022	FRONT	8000-02
X597	INSTRUMENT AUTO TRANS	8000-05	X1023	FRONT	8000-02
X482	REAR	8000-06	X1033	FRONT	8000-02
X485	REAR	8000-06	X1086	FRONT (M70)	8000-02
X488	REAR	8000-06	X1159	FRONT	8000-02
X489	REAR	8000-06	X1248	REAR	8000-06
			X1362	REAR	8000-06
			X1385	REAR	8000-06



## SPLICE LOCATION VIEWS

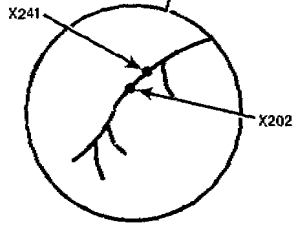
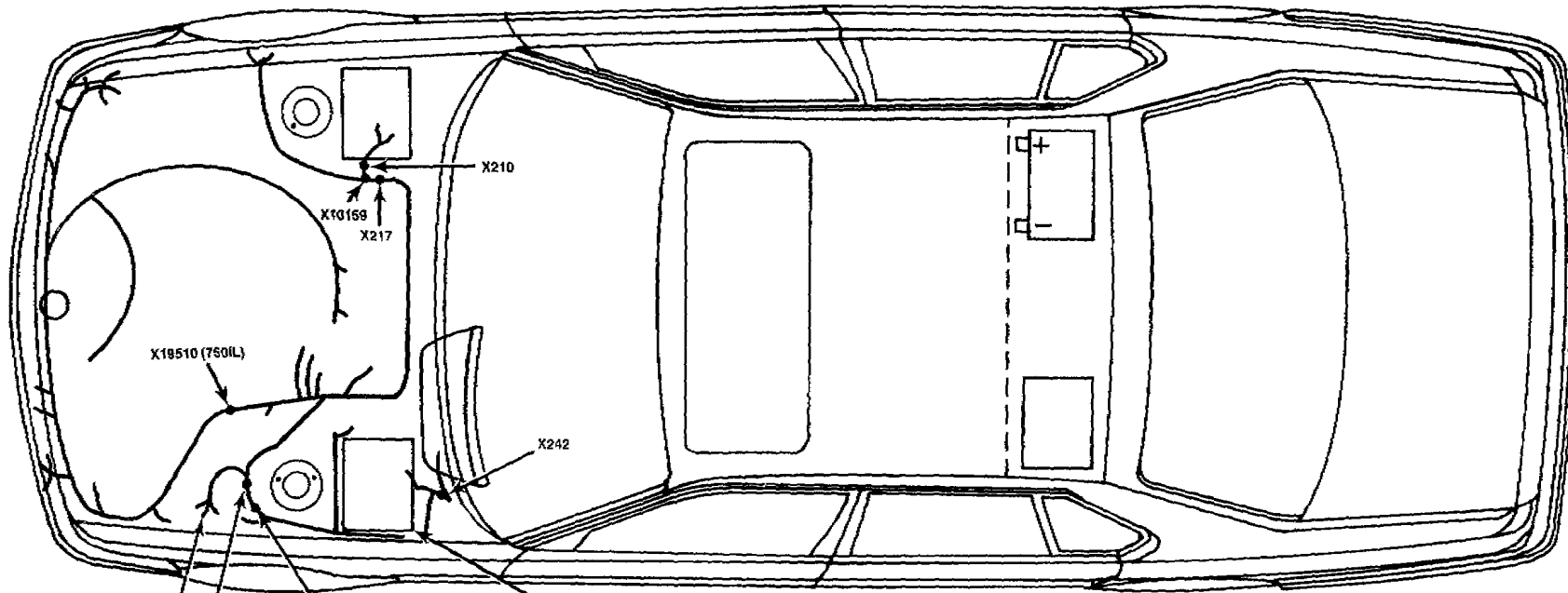
### SPLICE LOCATION INDEX

SPLICE	HARNESSES	PAGE NUMBER	SPLICE	HARNESSES	PAGE NUMBER
X6412	M60 ENGINE	8000-03	X8002-X8029	M70 ENGINE	8000-04
X6411-X6416	M70 ENGINE	8000-04	X8004	M60 ENGINE	8000-03
X6458-X6459	M60 ENGINE	8000-03	X8007	M60 ENGINE	8000-03
X6460-X6468	M70 ENGINE	8000-04	X8010	M60 ENGINE	8000-03
X6474	M60 ENGINE	8000-03	X8015	M60 ENGINE	8000-03
X6491	M60 ENGINE	8000-03	X8032-X8051	M70 ENGINE	8000-04
X6810	M60 ENGINE	8000-03	X8041	M60 ENGINE	8000-03
X6814-X6825	M70 ENGINE	8000-04	X8072	M60 ENGINE	8000-03
X6820	M60 ENGINE	8000-03	X8072	M70 ENGINE	8000-04
X6821	M60 ENGINE	8000-03	X8074	M60 ENGINE	8000-03
X6824	M60 ENGINE	8000-03	X8561	M60 ENGINE	8000-03
X6825	M60 ENGINE	8000-03	X8564-X8565	M60 ENGINE	8000-03
X6829	M60 ENGINE	8000-03	X8567	M70 ENGINE	8000-04
X6830	M60 ENGINE	8000-03	X8576	M60 ENGINE	8000-03
X6835-X6857	M70 ENGINE	8000-04	X10159	FRONT	8000-02
X6836	M60 ENGINE	8000-03	X13007	REAR	8000-06
X6841	M60 ENGINE	8000-03	X13023	REAR	8000-06
X6842	M60 ENGINE	8000-03	X13024	REAR	8000-06
X6845-X6848	M60 ENGINE	8000-03	X13036	REAR	8000-06
X6846	M70 ENGINE	8000-04	X1385	REAR	8000-06
X6863	M60 ENGINE	8000-03	X18726-X18728	RADIO/HIFI/CD	NOT SHOWN
X6863	M70 ENGINE	8000-04			
X6866	M60 ENGINE	8000-03	X19507	FRONT (M70)	8000-02
X6866	M70 ENGINE	8000-04	X19508	FRONT (M70)	8000-02
X6867	M70 ENGINE	8000-03	X19510	FRONT (M70)	8000-02
X6876	M60 ENGINE	8000-03			
X6901-X6908	M60 ENGINE	8000-03			



# SPLICE LOCATION VIEWS

## FRONT HARNESS



X145 (750IL)	X214 *	X195
X181	X228 *	X234
X1009	X225	X10086
X182	X204	X222
X183	X205 *	X212
X184	X198 *	X224 (750IL)
X185	X206	X213
X190 *	X226 *	X1023
X188	X203	X223 *
X191	X19507 (750IL)	X209
X192	X188 *	X243
X193	X1009	X1022
X246	X1008	X200
X245 (750IL)	X1159	X201
X247	X1086 * (750IL)	X215
X1007 *		X196
X242 *		X1033 *
X1033 (750IL)		X19508 * (750IL)
		X122 * (750IL)
		X212 (750IL)
		X1009 (750IL)
		X185 * (750IL)

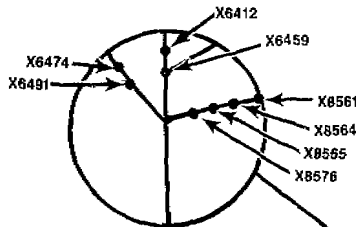




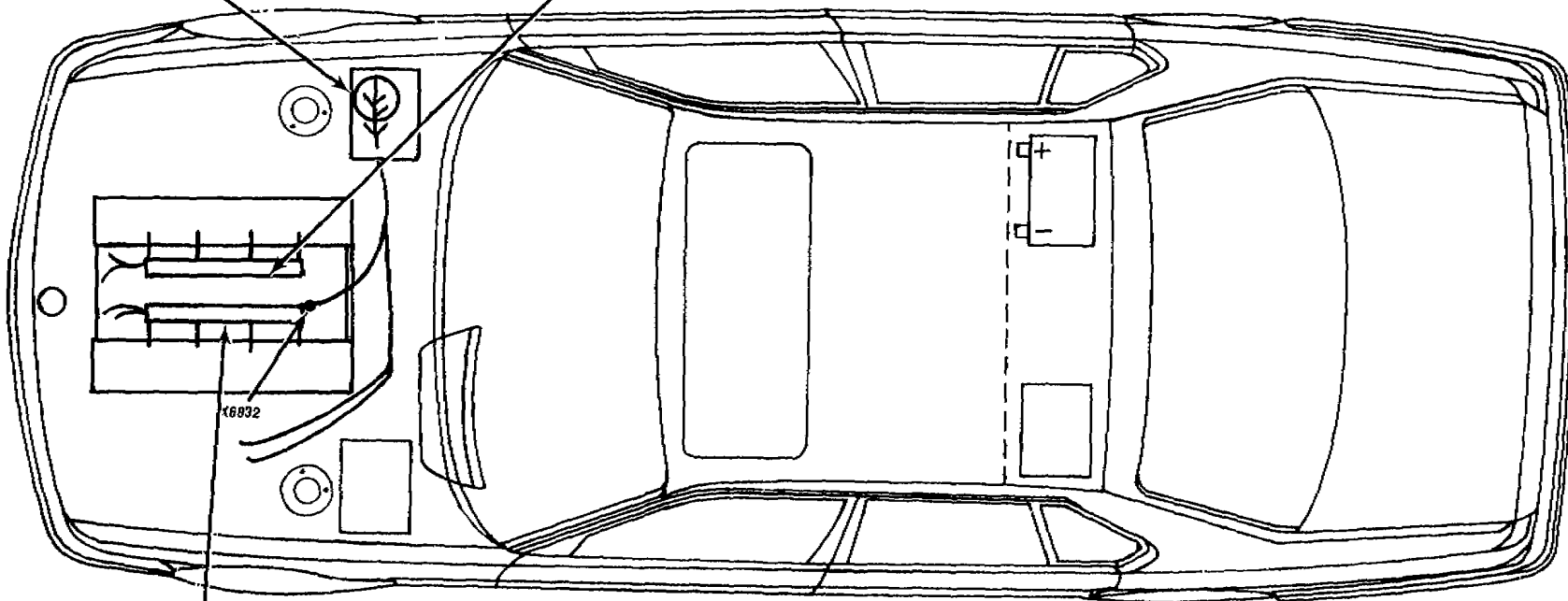
# SPLICE LOCATION VIEWS

## M60 ENGINE HARNESS

740i/L



X6245	X6836	X6866	X8010
X6458	X6841	X6901	X8015
X6810	X6845	X6902	X8041
X6821	X6846	X6903	X8072
X6824	X6847	X6904	X8074
X6825	X6848	X8004	
X6830	X6863	X8007	

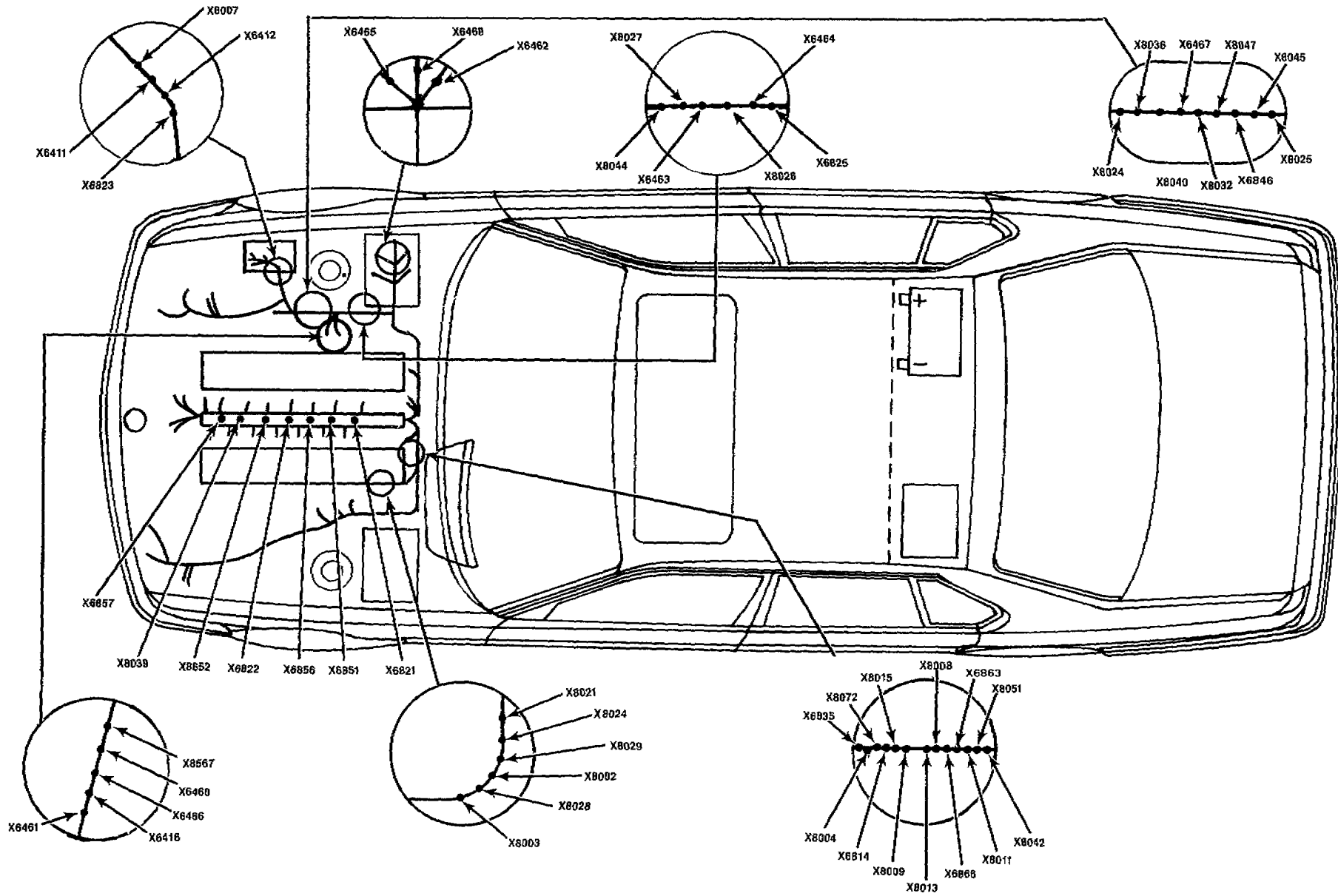


- X6820
- X6829
- X6842
- X6905
- X6906
- X6907
- X6908



# SPLICE LOCATION VIEWS M70 ENGINE HARNESS

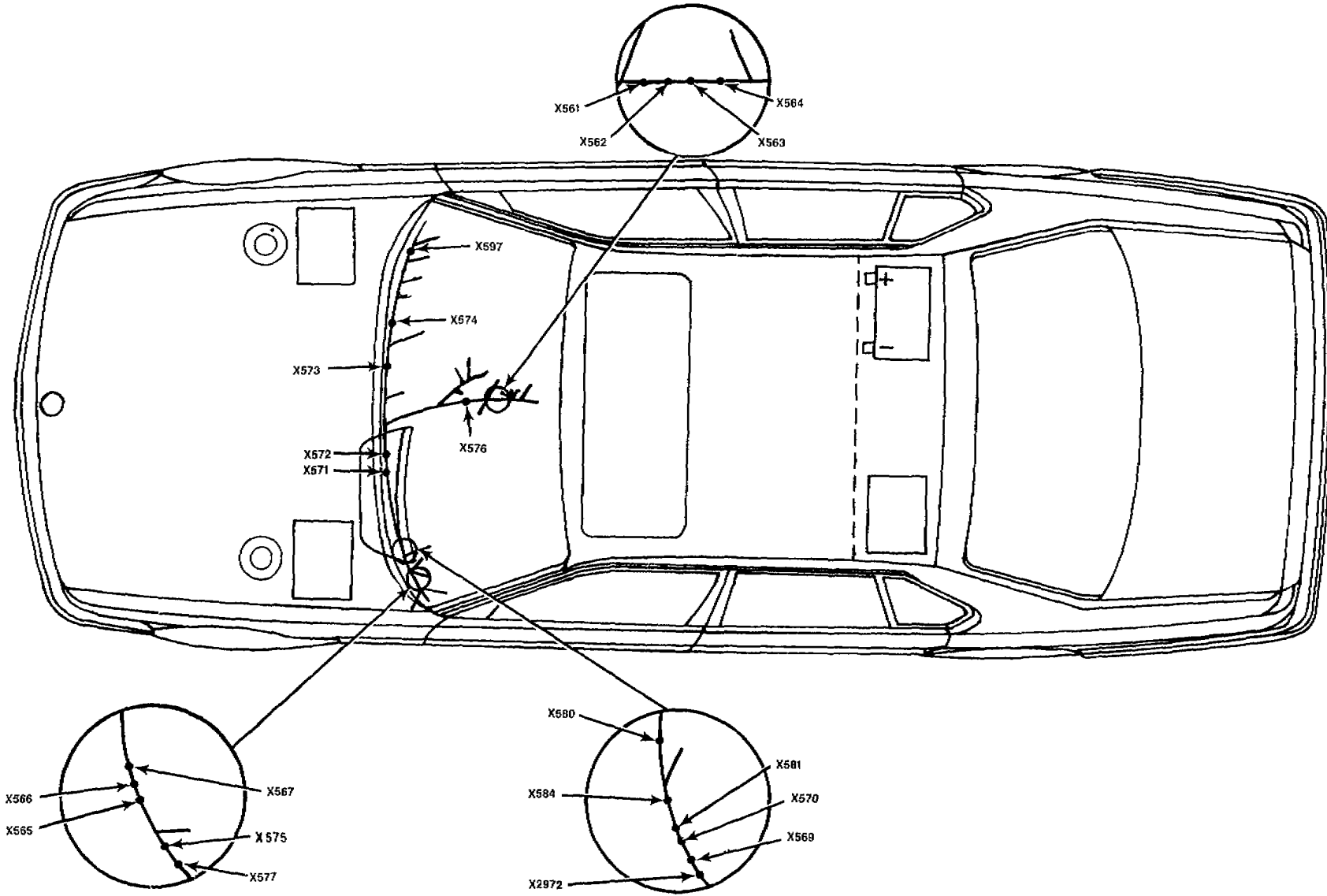
750iL





# SPLICE LOCATION VIEWS INSTRUMENT HARNESS

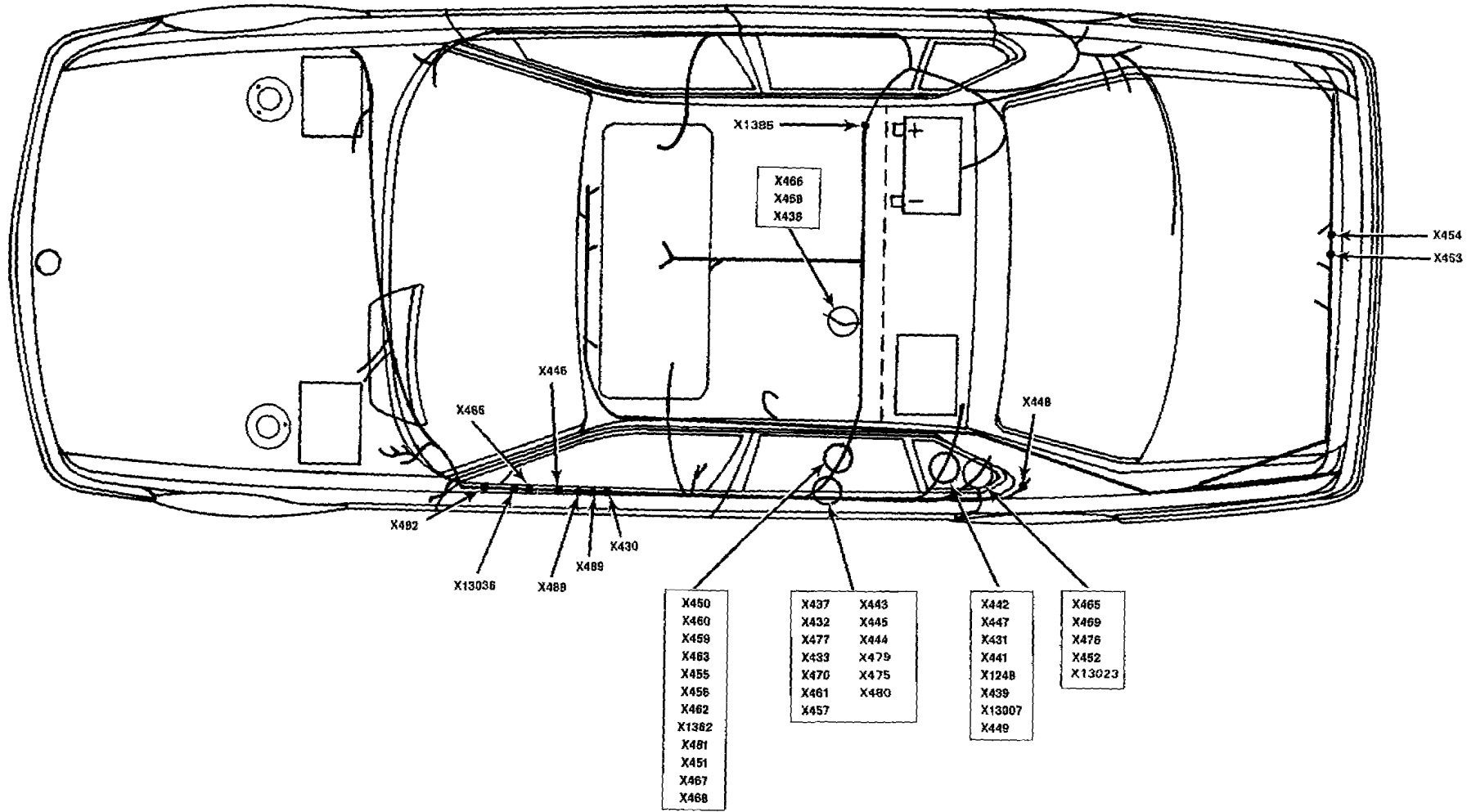
# AUTOMATIC TRANSMISSION





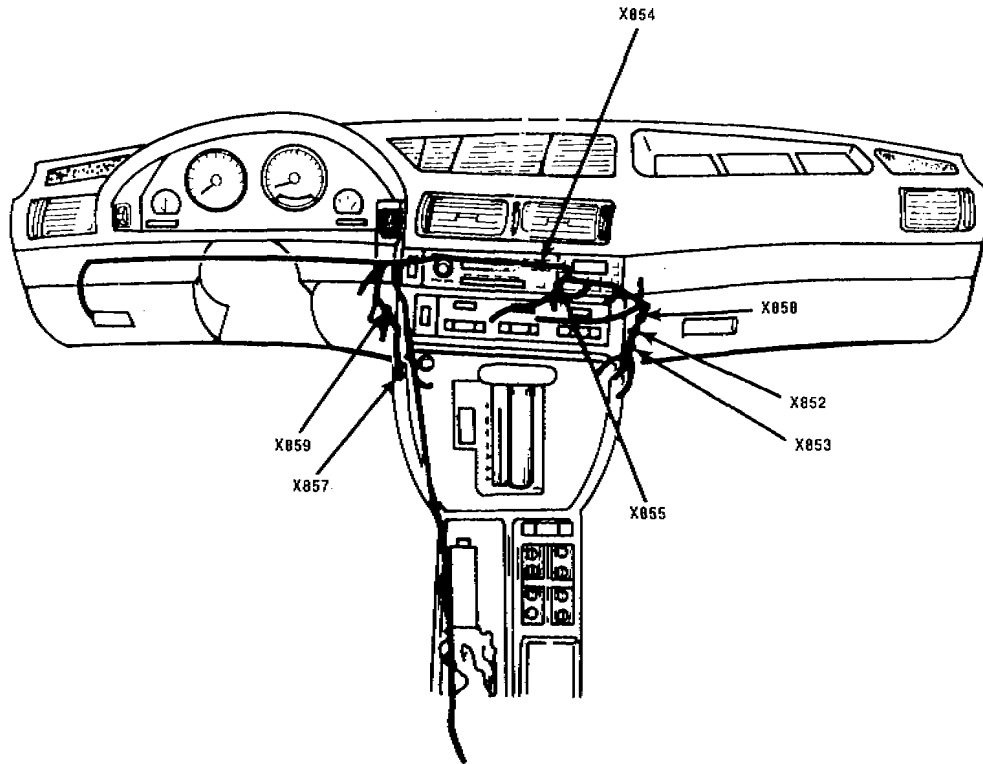
# SPLICE LOCATION VIEWS

## REAR HARNESS





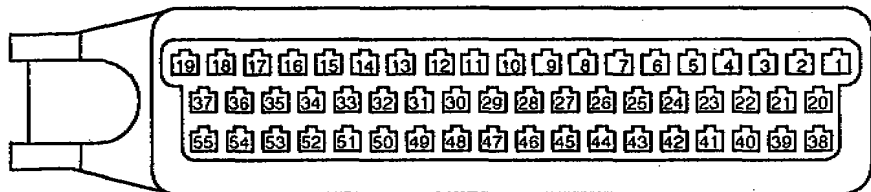
**SPLICE LOCATION VIEWS**  
**IHKA HARNESS**





# CONNECTOR VIEWS

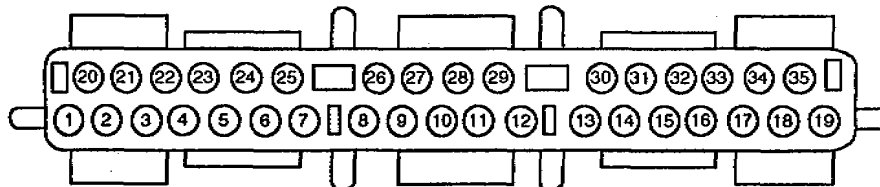
B550001.00



**X11** NA

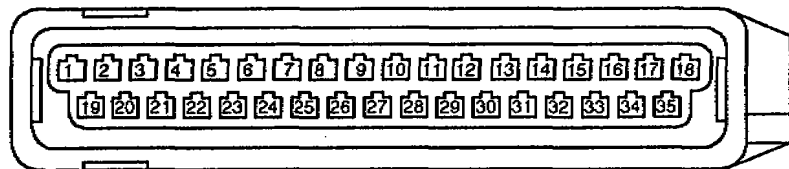
(ASC+T)

B350001.00



**X12** SW

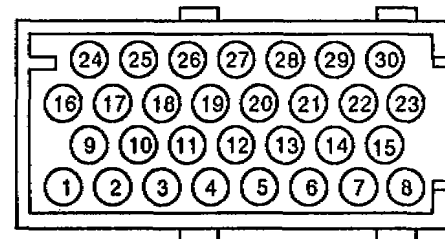
B350002.00



**X11** NA

WITH ABS

B300001.00

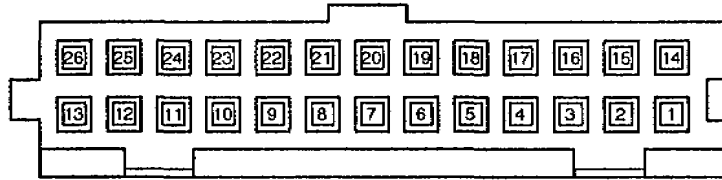


**X13** BL  
**X14** SW  
**X15** WS



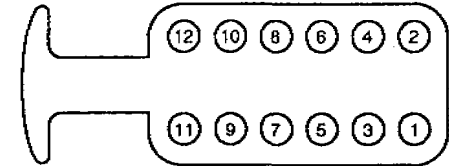
# CONNECTOR VIEWS

B260002.00



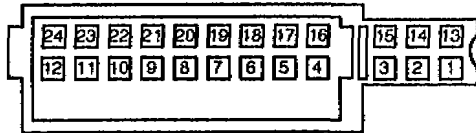
- X16 GE
- X18 BL
- X19 GN
- X22 BL
- X263 NA

B120013.00



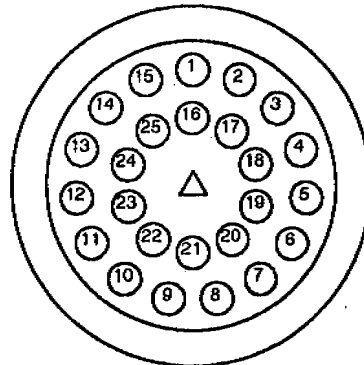
- X31 SW

B240001.00



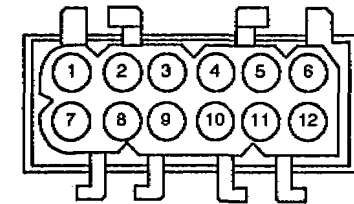
- X17 BR

B260007.00



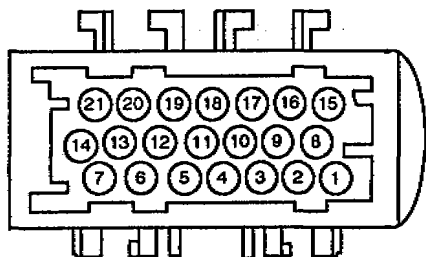
- X20 SW
- X21 WS

B120004.01



- X32 WS
- X33 SW
- X34 WS

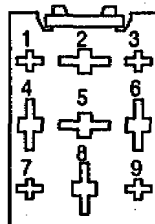
B210001.00



X36 SW



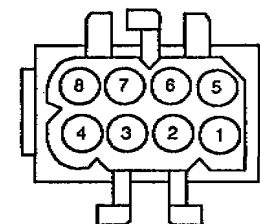
B090001.00



- X50 WS
- X51 SW
- X52 WS
- X53 WS
- X54 SW
- X55 WS
- X57 SW
- X58 WS
- X59 SW
- X61 SW
- X63 WS
- X64 SW
- X65 BR



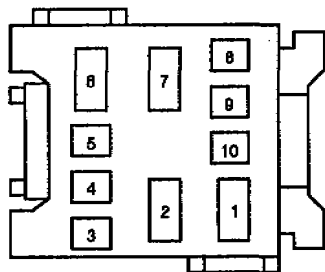
B080001.00



- X69 WS
- X72 WS
- X73 SW



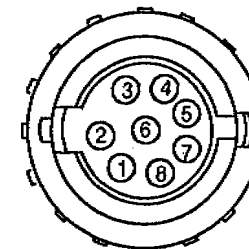
B100012.00



X56 NA



B080003.00



X70 SW

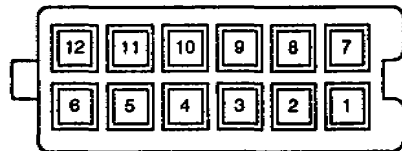






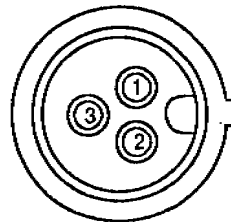
# CONNECTOR VIEWS

B120011.00



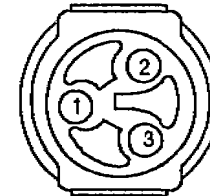
X74 OR  
X75 OR  
X271 GR  
X18069

B030005.00



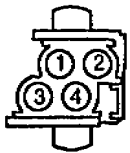
X81 OR  
X86 OR

B030012.00



X83 GE

B040003.00



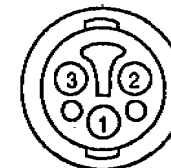
X78 SW

B030004.00



X82 SW  
X85 SW

B030013.00

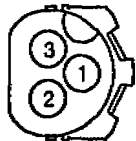


X84 GE



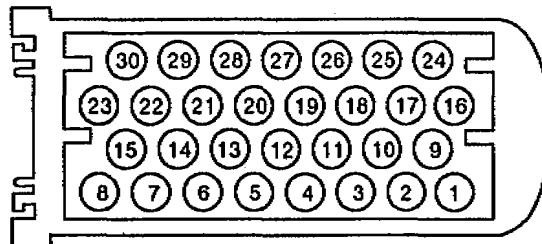
# CONNECTOR VIEWS

B030006.00



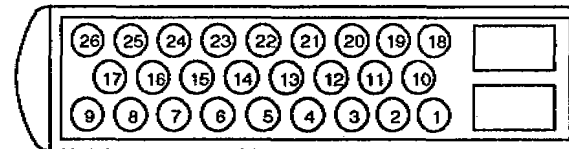
<u>X87</u>	SW
<u>X91</u>	SW
<u>X92</u>	SW
<u>X95</u>	SW

B300002.00



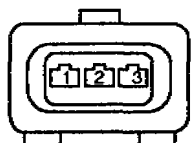
<u>X251</u>	SW
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B260001.00



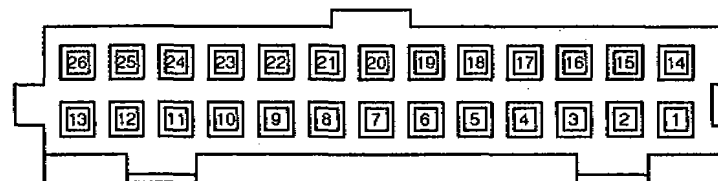
<u>X256</u>	SW
<u>X257</u>	SW

B030015.00



<u>X96</u>	GR
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B260002.01

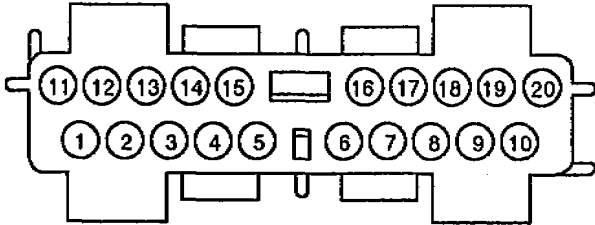


<u>X253</u>	GN	<u>X255</u>	GE
<u>X254</u>	WS		



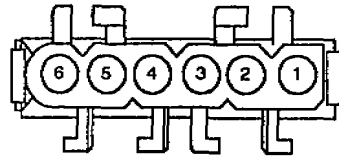
# CONNECTOR VIEWS

B200001.00



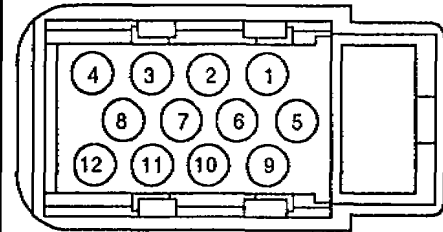
X258 SW  
X259 WS

B060003.03



X629 WS    X634 WS  
X299 NA    X635 SW

B120003.01



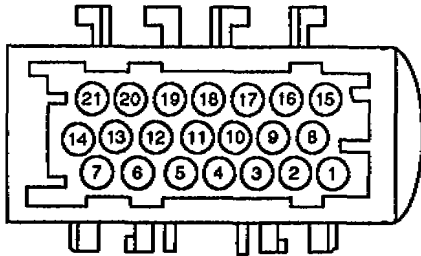
X273 SW  
X274 SW

B100001.00



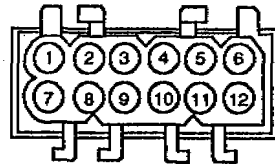
X277 SW  
X278 SW

B210001.00



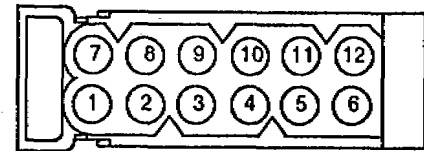
X260 SW

B120004.00



X272 SW

B120002.00

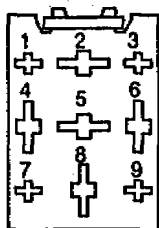


X275 WS  
X279 WS



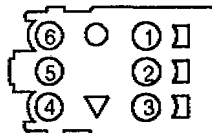
# CONNECTOR VIEWS

B090001.00



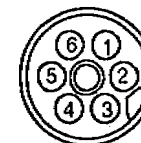
- X292 WS
- X293 WS
- X294 WS
- X18068 NA

B060032.00



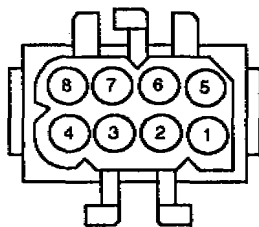
- X311 SW
- X312 SW

B060004.00



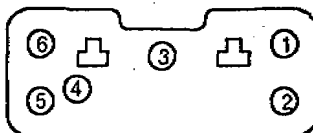
- X318 SW
- X319 SW

B080001.02



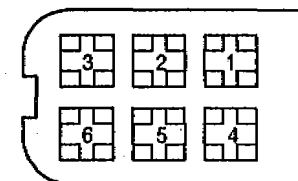
- X295 SW
- X298 SW
- X322 SW
- X337 SW

B060002.00



- X316 WS
- X317 SW

B060006.00

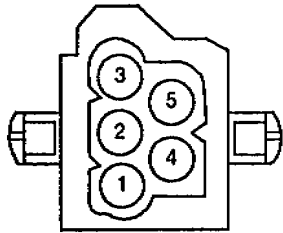


- X323 NA



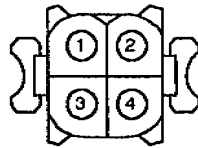
# CONNECTOR VIEWS

B050005.00



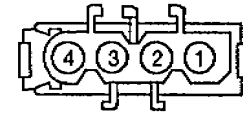
X331 GN

B040008.00



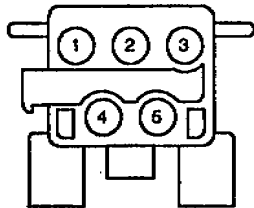
X333 SW

B040002.00



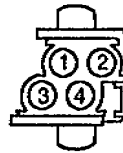
X336 WS  
X13054  
X18029 NA

B050008.00



X332 SW

B040003.00



X335 GN

B030003.00

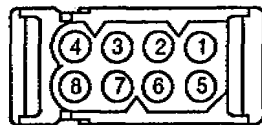


X355 WS  
X356 WS



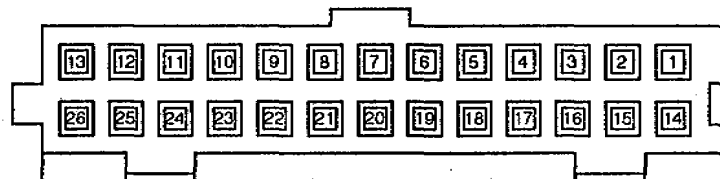
# CONNECTOR VIEWS

B080002.00



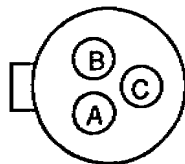
- X400 NA
- X511 SW
- X512 SW
- X526 SW

B260002.02



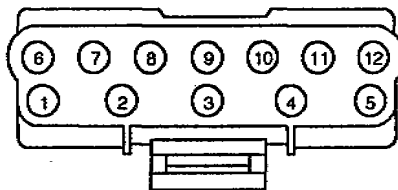
- X501 GN
- X502 WS

B030033.00



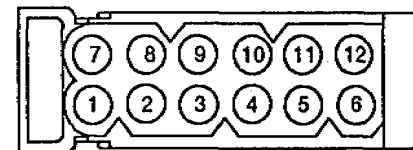
- X405 SW
- X406 SW
- X407 SW
- X408 SW

B120006.00



- X503 SW
- X504 SW

B120002.01

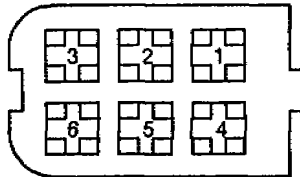


- X506 SW



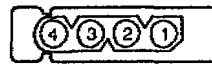
# CONNECTOR VIEWS

B060006.00



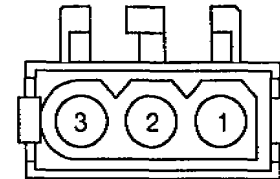
X514 SW

B040004.00



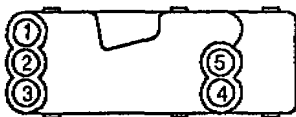
X517 SW  
X518 SW

B030001.02



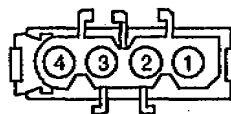
X520 WS

B050003.00



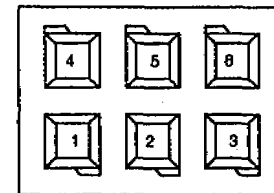
X516 SW

B040002.00



X519 WS  
X3212 WS

B060035.00



X521 SW    X651 NA  
X636 NA    X898 NA  
X637 NA



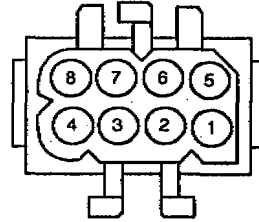
# CONNECTOR VIEWS

B030003.01



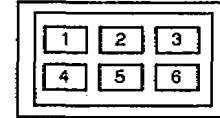
<u>X522</u>	WS
<u>X355</u>	NA
<u>X356</u>	NA

B080001.00



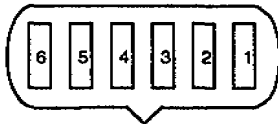
<u>X526</u>	WS
<u>X6505</u>	WS

B060019.00



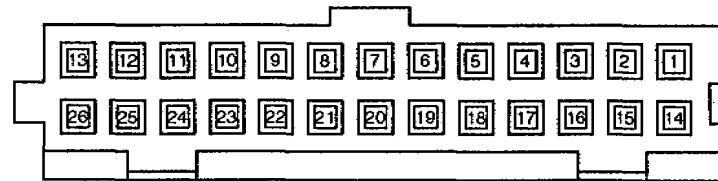
<u>X529</u>	NA
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B060023.00



<u>X523</u>	SW
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B260002.02



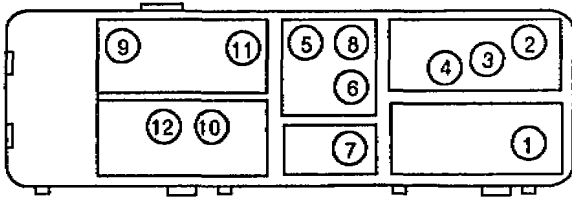
<u>X601</u>	WS	<u>X612</u>	BL
<u>X602</u>	GE	<u>X613</u>	BL
<u>X610</u>	WS	<u>X614</u>	GE
<u>X611</u>	GN	<u>X606</u>	SW





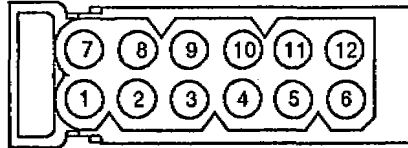
# CONNECTOR VIEWS

B120008.00



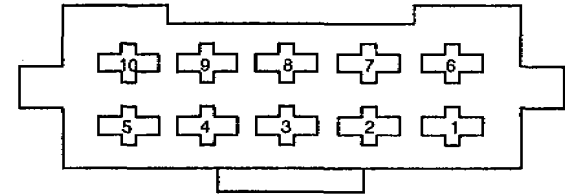
↔  
X603 SW  
X604 SW

B120002.02



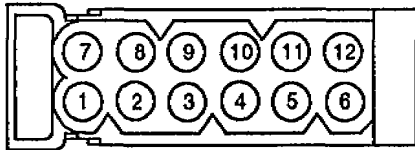
↔  
X626 WS

B100002.00



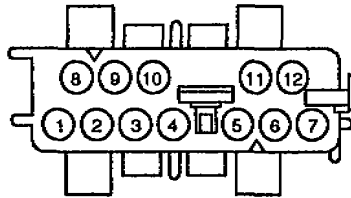
↔  
X621 SW  
X622 SW

B120002.01



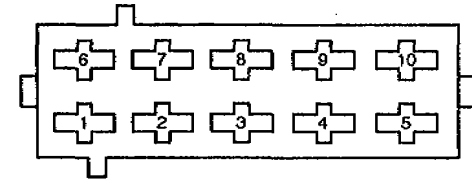
↔  
X605 SW

B120005.00



↔  
X607 SW  
X616 NA

B100005.00

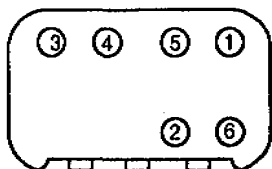


↔  
X623 SW  
X624 SW



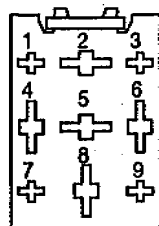
# CONNECTOR VIEWS

B060013.00



X625 SW

B090001.02



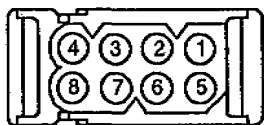
X632 NA

B060005.00



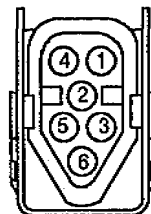
X643 BL ▽  
X650 NA

B080002.01



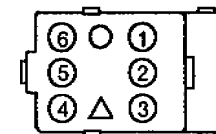
X627 SW  
X10105 WS

B060009.00



X638 SW      X646 SW  
X641 SW      X660 SW  
X644 SW

B060008.00

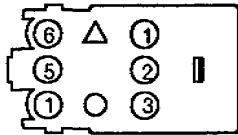


X645 SW  
X647 SW



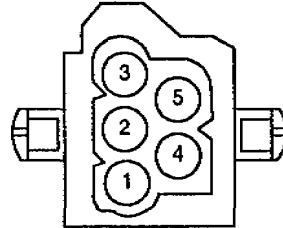
# CONNECTOR VIEWS

B060005.01



<u>X648</u>	SW	△	<u>X655</u>	BL	▽
<u>X649</u>	WS	△	<u>X656</u>	GN	△
<u>X652</u>	BL	▽	<u>X657</u>	BR	▽
<u>X653</u>	SW	△	<u>X659</u>	BL	▽
<u>X654</u>	SW	△			

B050001.00



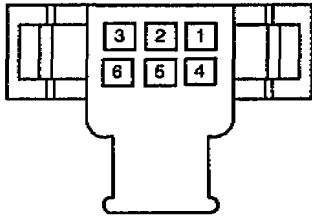
X671 GN

B030003.02



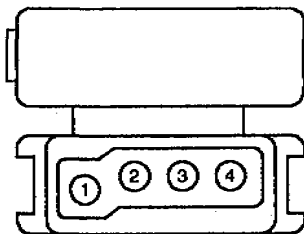
X680 SW  
X693 SW

B060010.01



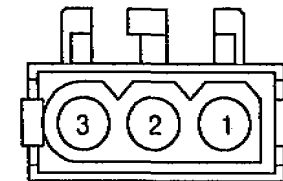
<u>X661</u>	SW	<u>X666</u>	SW
<u>X662</u>	SW	<u>X667</u>	SW
<u>X663</u>	SW	<u>X668</u>	SW
<u>X664</u>	SW	<u>X669</u>	SW
<u>X665</u>	SW	<u>X670</u>	SW

B040013



X672 SW

B030001.03



X681 WS



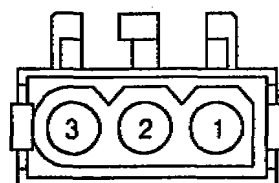
# CONNECTOR VIEWS

B030004.01



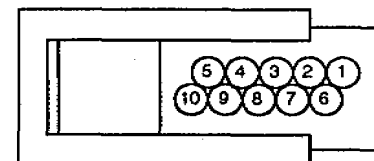
X684 SW  
X685 SW

B030001.03



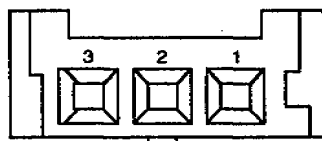
X692 SW

B100007.00



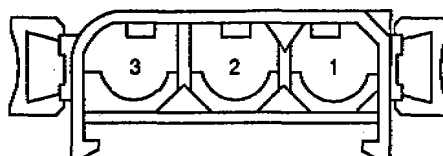
X945 NA  
X9968

B030007.00



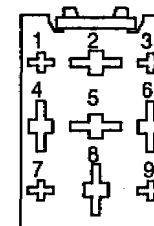
X686 BL    X689 BL  
X687 BL    X690 BL  
X688 BL

B030009.00



X696 SW

B090001.03

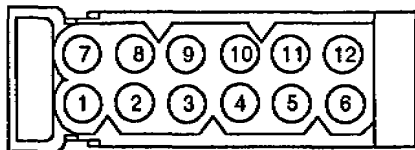


X1021 WS    X6303 SW/WS  
X6300 SW/WS    X6310 SW/WS  
X6301 SW/WS    X6320 SW/WS



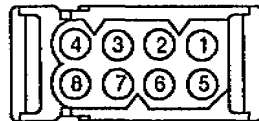
# CONNECTOR VIEWS

B120002.01



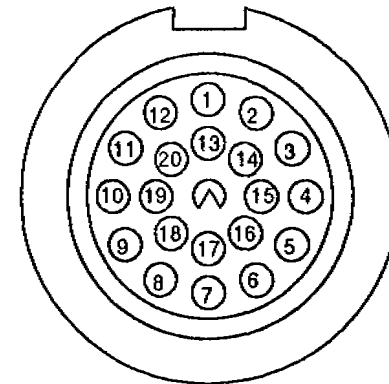
X1858 WS  
X18260 WS

B080002.02



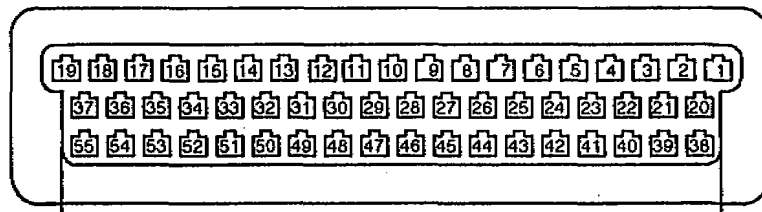
X6003 SW

B200003.00



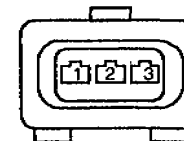
X6002 SW

B550001.00



X8500 NA

B030015.00



740I/L

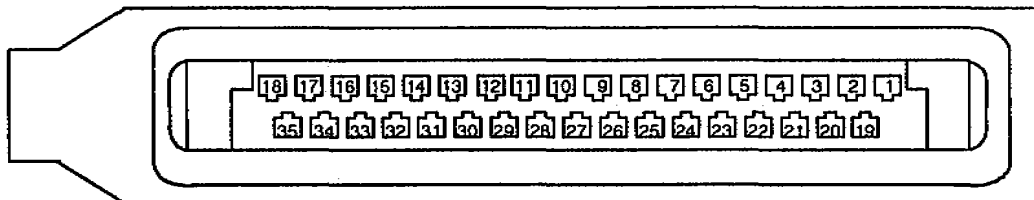
X6201  
X6203  
X6241  
X6242  
X6243  
X6244  
X6252

X6130 SW    X6221 SW  
X6201 SW    X6222 GR  
X6202 SW    X6230 SW  
X6211 GR    X6236 SW  
X6212 SW    X6508 SW



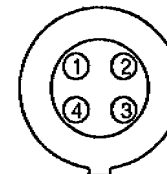
# CONNECTOR VIEWS

B350004.00



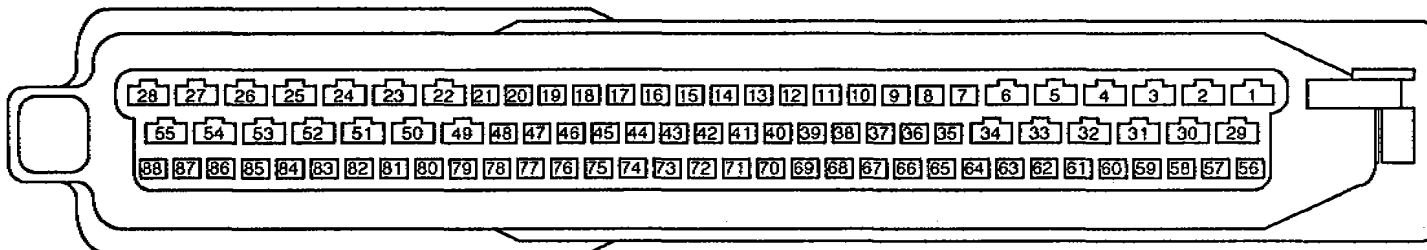
<u>X6004</u>	NA	750i/L
<u>X6007</u>	NA	740i/L

B040008.00



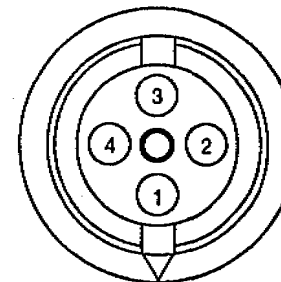
<u>X6200</u>	SW
<u>X6202</u>	GR 740i/L

B880002.00



<u>X6000</u>	NA
<u>X6010</u>	NA
<u>X6020</u>	NA

B040018.02

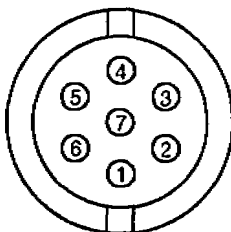


<u>X6210</u>	SW
<u>X6220</u>	SW



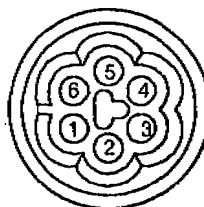
# CONNECTOR VIEWS

B070011.01



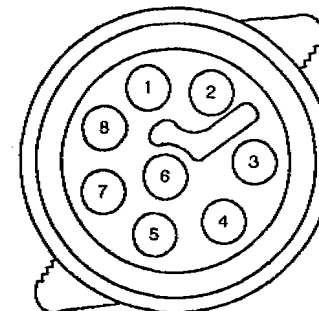
X6216 SW  
X6228 SW

B060014.00



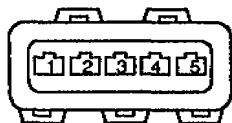
X6251 SW

B080009.00



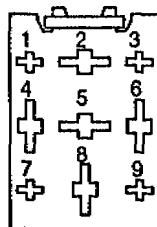
X6360 SW  
X6370 SW

B050008.02



X6233 SW

B090001.00



X6311 SW/WS  
X6321 SW/WS

B040004.01

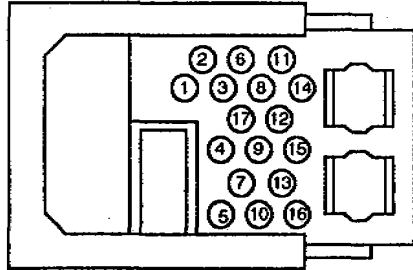


X6506 SW  
X13054 SW  
X18204 SW



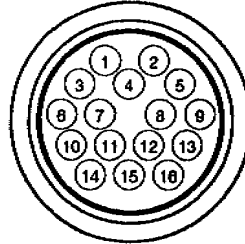
# CONNECTOR VIEWS

B170001.00



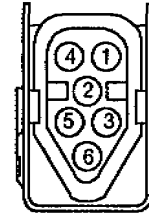
**X8074 SW**  
**X8075 SW**  
**X18126 SW**

B160001.00



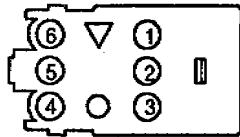
**X8505 SW 740i/L**

B060009.00



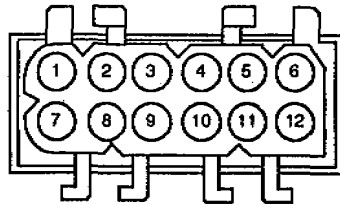
**X18024 NA**

B060005.17



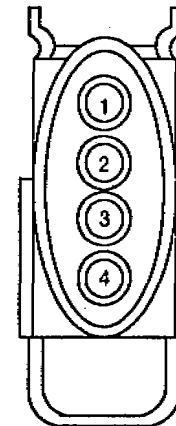
**X8503 BL**

B120004.01



**X13025 NA**

B040015.00



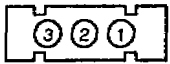
**X18025 NA**





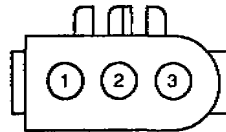
# CONNECTOR VIEWS

B030027.01



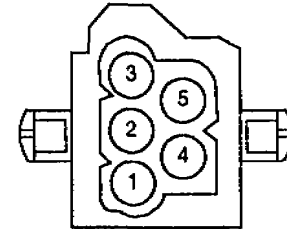
X18031 NA  
X18067 NA

B030034.00



X18093 WS  
X18729 WS

B050001.00



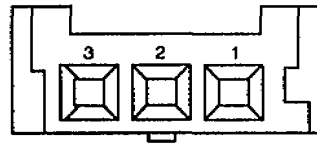
X18098 BL

B030035.00



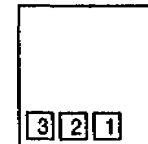
X18066 NA

B030007.00



X18096 BL

B030036.00

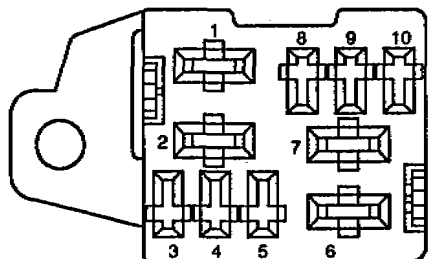


X18246 NA



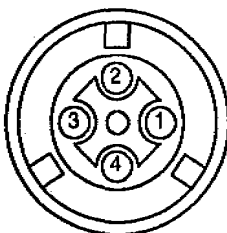
# CONNECTOR VIEWS

B100004.00



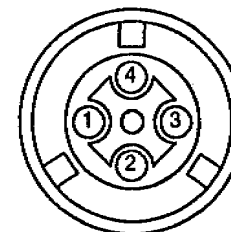
**X18259 SW**

B040016.01



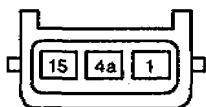
**X10107**

B040016.02



**X10106**

B030015.11



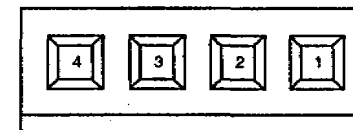
<b>X6151</b>	SW	<b>X6155</b>	SW
<b>X6152</b>	SW	<b>X6156</b>	SW
<b>X6153</b>	SW	<b>X6157</b>	SW
<b>X6154</b>	SW	<b>X6158</b>	SW

B040004.00



**X78**  
**X343**

B040021



**X1404 NA**



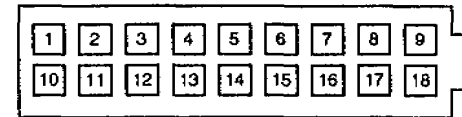
# CONNECTOR VIEWS

B250003.00



**X18500 SW**

B180002.00



**X6030 NA**

