



1985

BMW 524TD

Electrical

Troubleshooting

Manual

BMW of North America, Inc.
Montvale, New Jersey

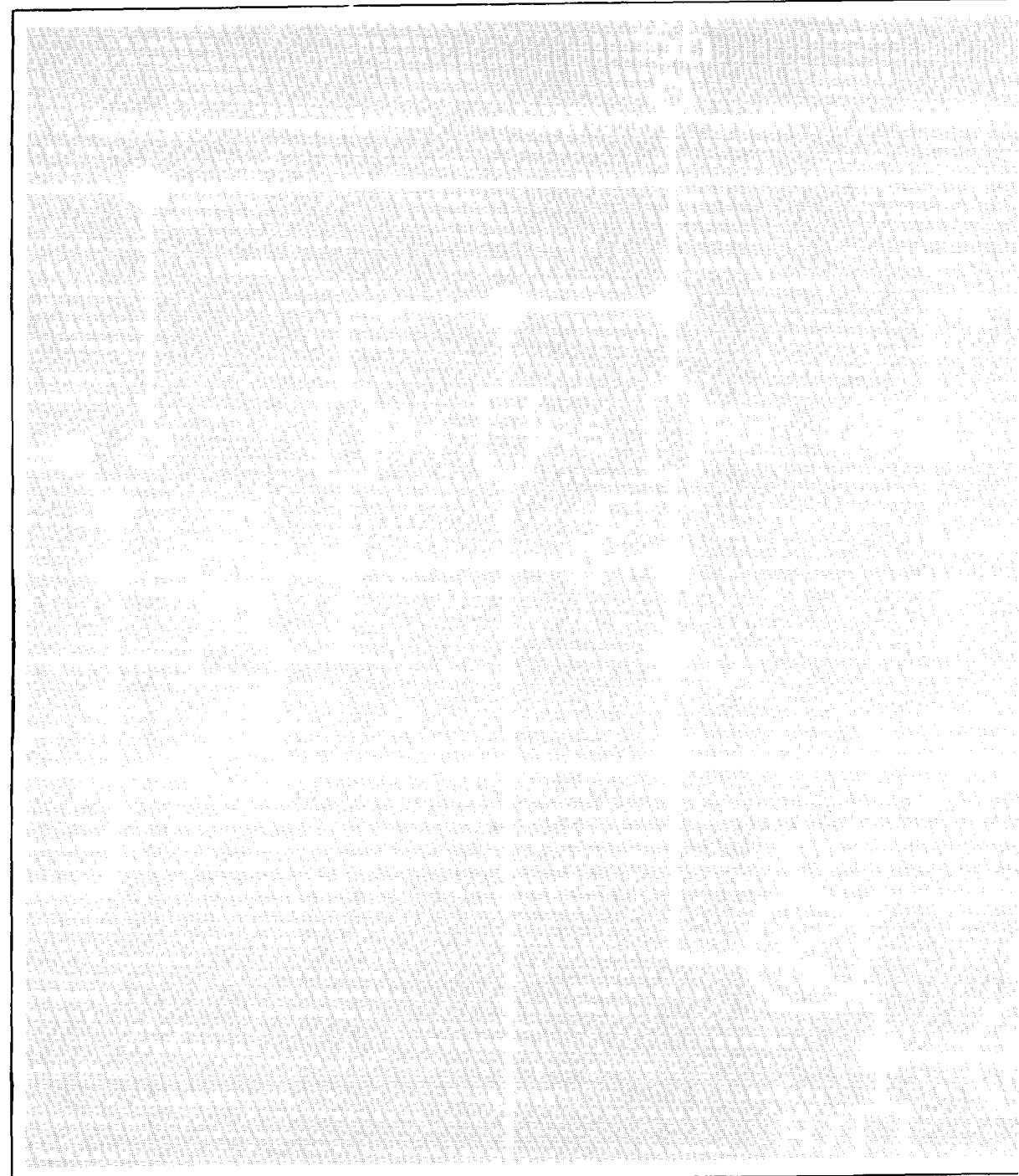
FOREWORD

In the interests of continuing
technical development work
we reserve the right to modify
designs and equipment.

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The purpose of this manual is to show electrical schematics in a manner that makes electrical troubleshooting easier. Electrical components which work together are shown together on one schematic. The Wiper-Washer schematic, for example, shows all of the electrical components in one diagram. 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, describing how switches and other components work.

The power distribution schematic shows the current feed through all the connections from the Battery and Alternator to each fuse and the Ignition and Light Switches. If the 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 vehicle; however, the wiring is not drawn to scale. To aid in understanding electrical operation, wiring inside complicated components has been simplified. The "Solid State" label designates electronic components.

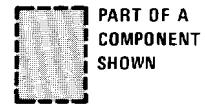
WIRE SIZE CONVERSION CHART	
METRIC (CROSSECTONAL AREA IN MM ²)	AWG (AMERICAN WIRE GAUGE)
.5	20
.75	18
1	16
1.5	14
2	14
2.5	12
4	10
6	8
8	8
16	4
20	4
25	2
32	2

WIRE INSULATION	
ABBREVIATIONS	COLOR
BK	BLACK
BR	BROWN
RD	RED
YL	YELLOW
GN	GREEN
BU	BLUE
VI	VIOLET
GY	GRAY
WT	WHITE
PK	PINK

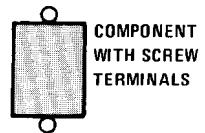
4 SYMBOLS



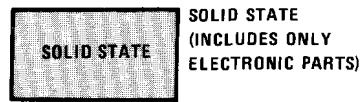
ENTIRE
COMPONENT
SHOWN



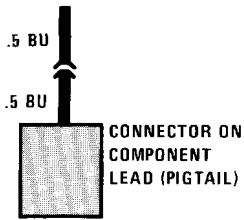
PART OF A
COMPONENT
SHOWN



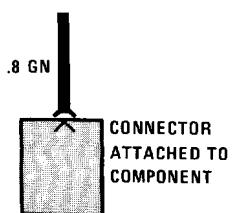
COMPONENT
WITH SCREW
TERMINALS



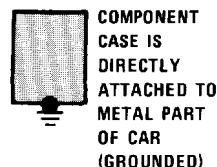
SOLID STATE
(INCLUDES ONLY
ELECTRONIC PARTS)



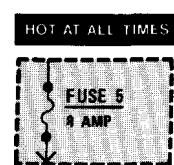
CONNECTOR ON
COMPONENT
LEAD (PIGTAIL)



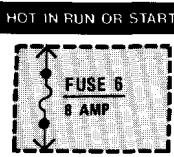
CONNECTOR
ATTACHED TO
COMPONENT



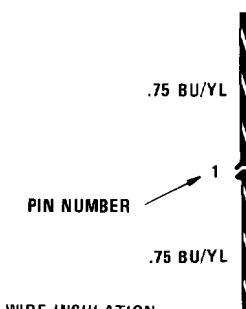
COMPONENT
CASE IS
DIRECTLY
ATTACHED TO
METAL PART
OF CAR
(GROUNDED)



INDICATES THAT FUSE 5
IS ALWAYS SUPPLIED
WITH POWER



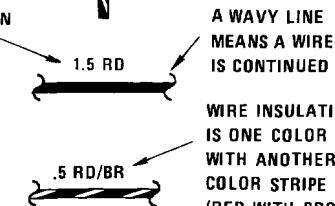
INDICATES THAT FUSE 6
IS SUPPLIED WITH POWER
WITH THE IGNITION
SWITCH IN THE RUN OR
START POSITIONS



PIN NUMBER
.75 BU/YL

CONNECTOR REFERENCE
NUMBER FOR COMPONENT
LOCATION CHART

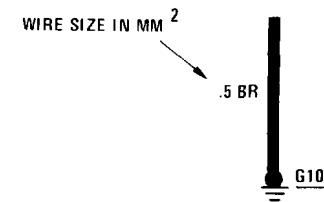
CHART ALSO SHOWS
TOTAL NUMBER OF
CONTACTS POSSIBLE:
C103 (6 PIN)



WIRE INSULATION
IS ONE COLOR

A WAVY LINE
MEANS A WIRE
IS CONTINUED

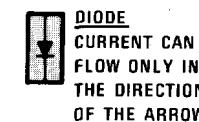
WIRE INSULATION
IS ONE COLOR
WITH ANOTHER
COLOR STRIPE
(RED WITH BROWN)



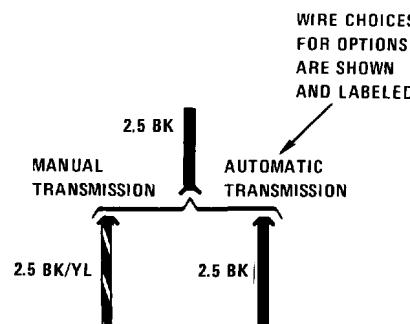
WIRE SIZE IN MM²

WIRE IS ATTACHED TO
METAL PART OF CAR
(GROUNDED)
GROUND IS NUMBERED
FOR REFERENCE ON
COMPONENT LOCATION CHART

OTHER CIRCUITS THAT SHARE
A GROUND ARE SHOWN
IN GROUND DISTRIBUTION



DIODE
CURRENT CAN
FLOW ONLY IN
THE DIRECTION
OF THE ARROW



WIRE CHOICES
FOR OPTIONS
ARE SHOWN
AND LABELED

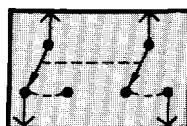
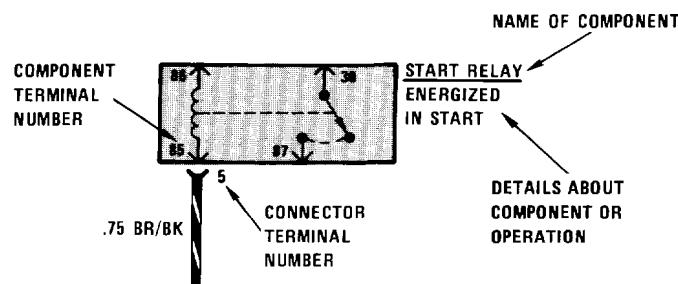
CIRCUIT REFERENCE –
A WIRE WHICH CONNECTS
TO ANOTHER CIRCUIT



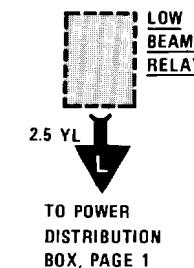
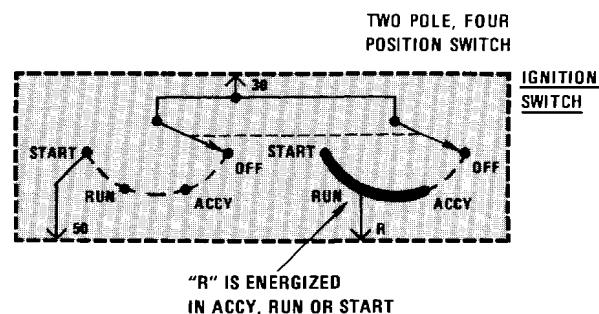
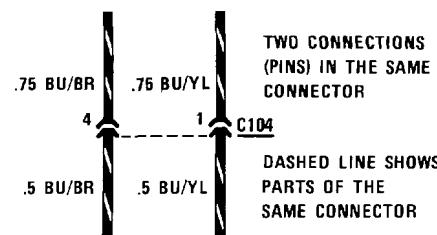
ACTIVE CHECK CONTROL



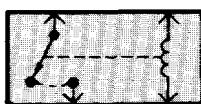
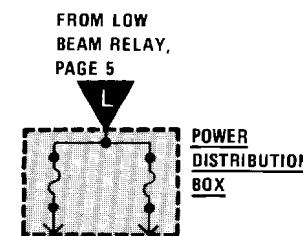
ONE POLE,
TWO POSITION
SWITCH



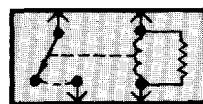
SWITCHES THAT MOVE TOGETHER
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES



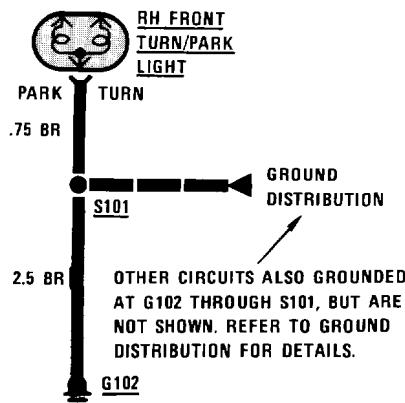
CURRENT PATH IS CONTINUED AS LABELED. THE ARROW SHOWS DIRECTION OF CURRENT FLOW AND IS REPEATED WHERE CURRENT PATH CONTINUES.



WHEN COIL IS ENERGIZED, SWITCH IS PULLED CLOSED



RESISTOR ACROSS COIL IS FOR NOISE SUPPRESSION



LIGHT EMITTING DIODE

6 SYSTEMATIC TROUBLESHOOTING

TROUBLESHOOTING PROCEDURE

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

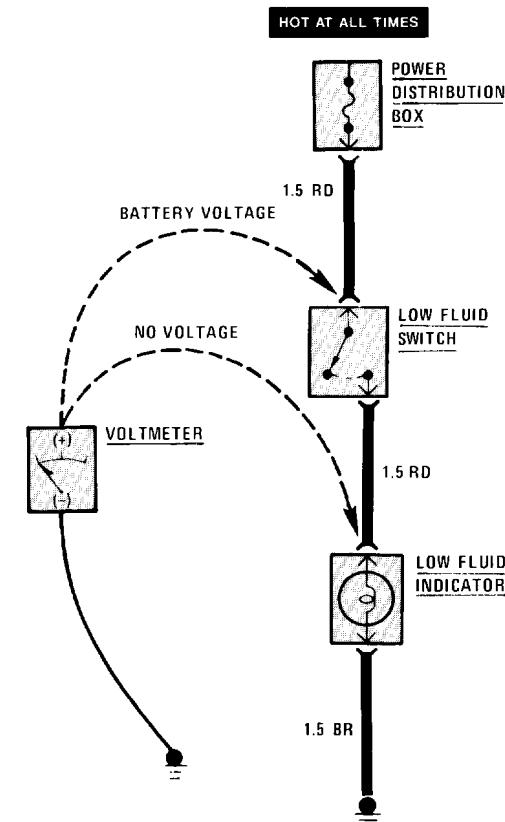
Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a **voltmeter** and/or **ohmmeter**. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit 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.

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.

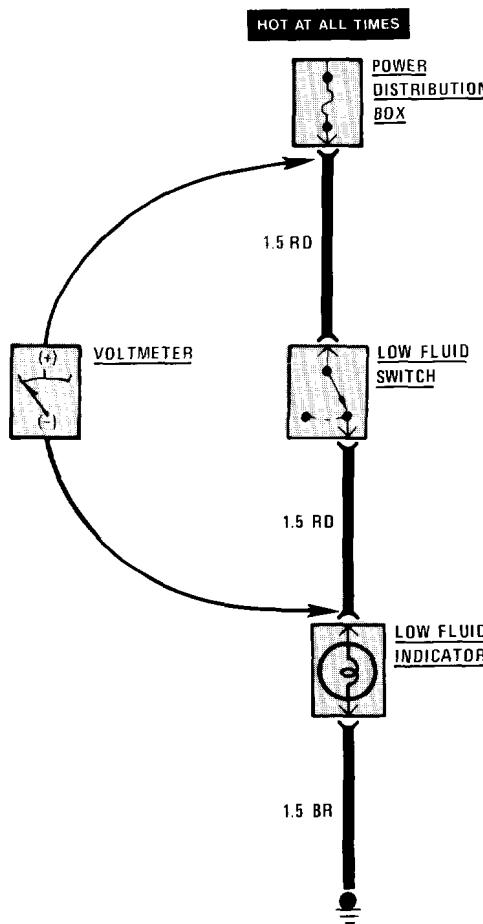


Voltage Test

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 volt indicates a problem.

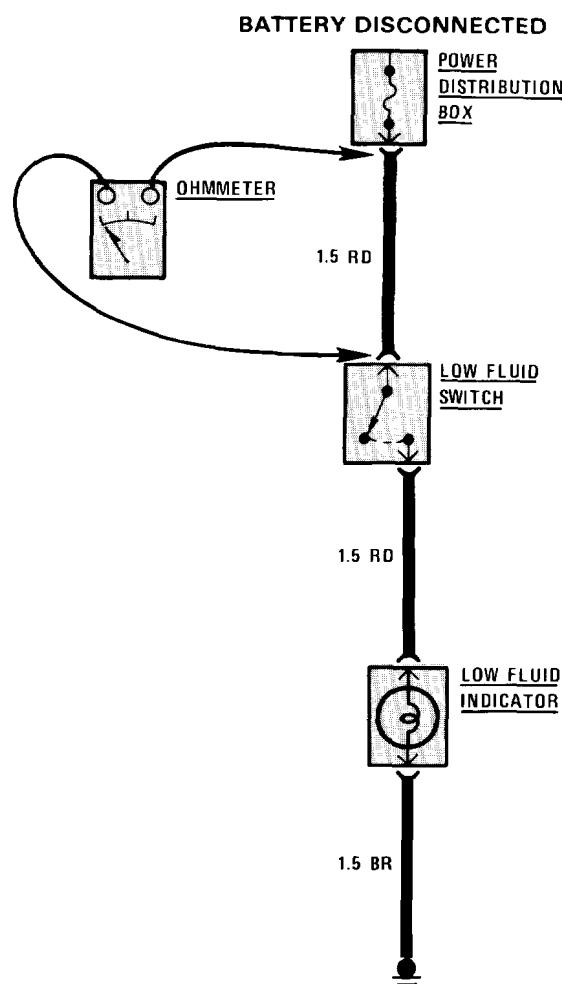
To test for voltage drop, connect the voltmeter leads to connectors at either end of the circuit's suspected problem area. The positive lead should be connected to the connector closest to the power source. The voltmeter will show the voltage drop between these two points.



Voltage Drop Test

Continuity Test

To perform a continuity test, first disconnect the car battery. Then adjust the ohmmeter to read zero while holding the leads together. 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.

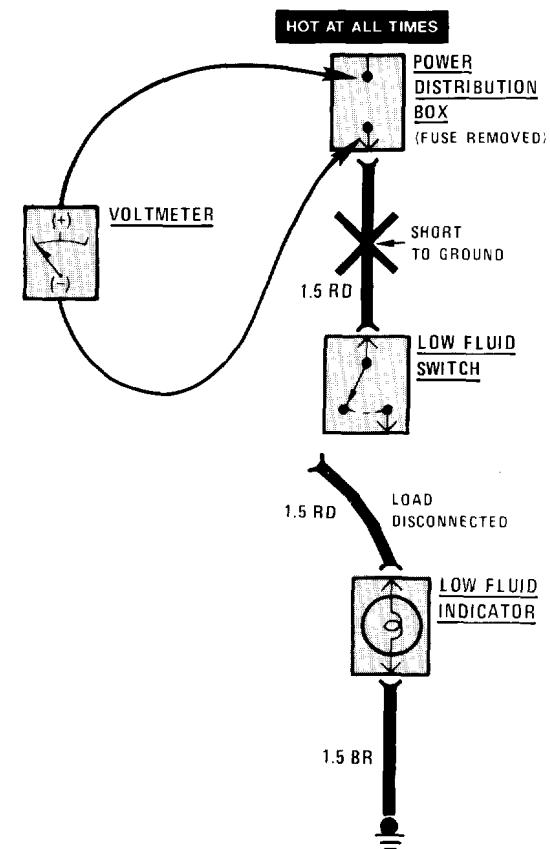


Continuity Test

Short Test Using Voltmeter

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 **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.



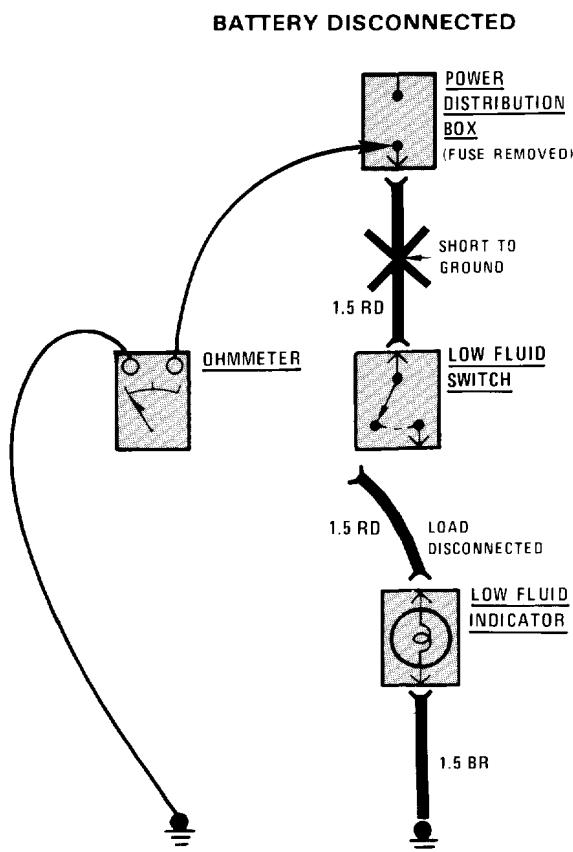
Short Test Using Voltmeter

8 SYSTEMATIC TROUBLESHOOTING

Short Test Using Ohmmeter

Disconnect the battery. Adjust the ohmmeter to read zero while holding the leads together. 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 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

BLANK

BLANK

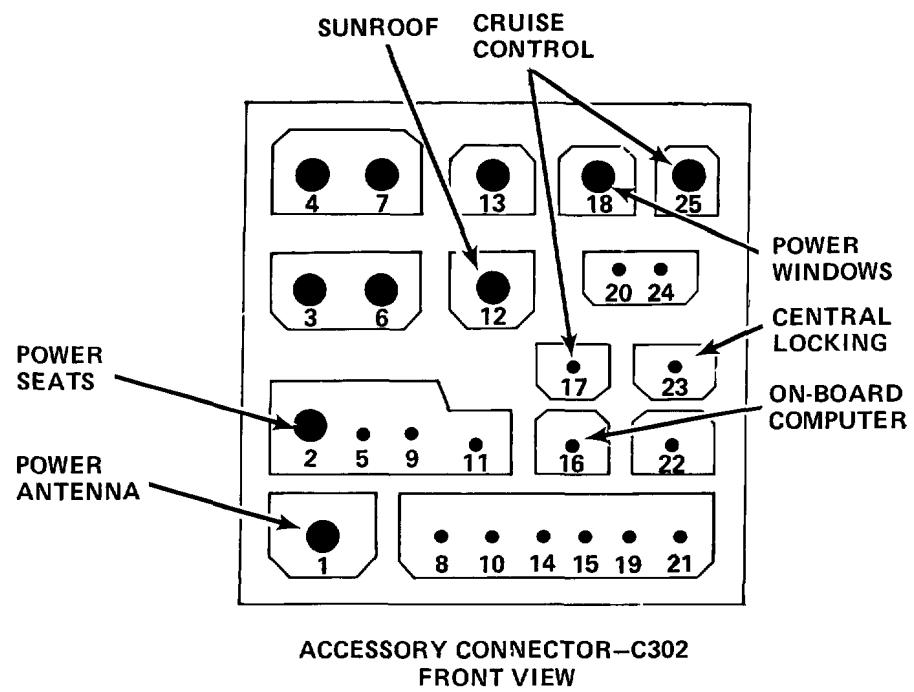
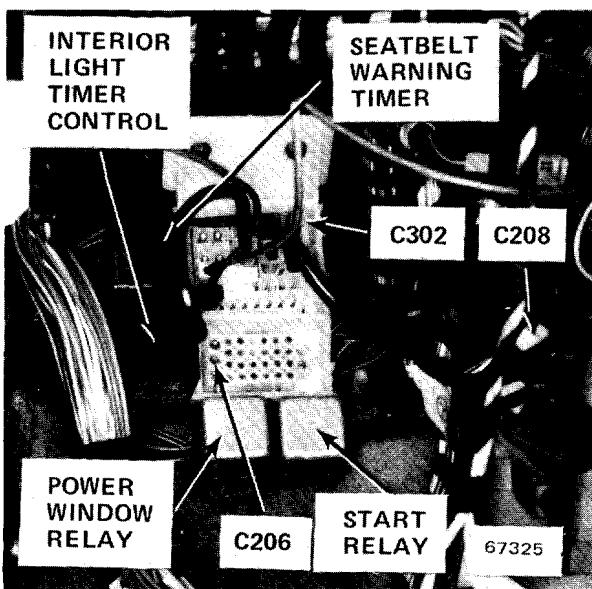
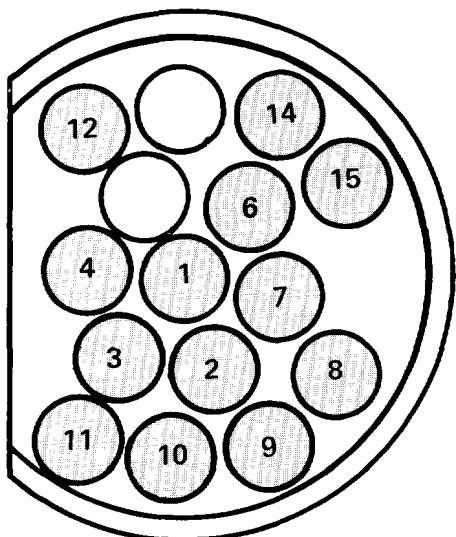


Figure 1 - Under Left Side Of Dash

104 DIAGNOSTIC CONNECTOR



DIAGNOSTIC CONNECTOR FACE

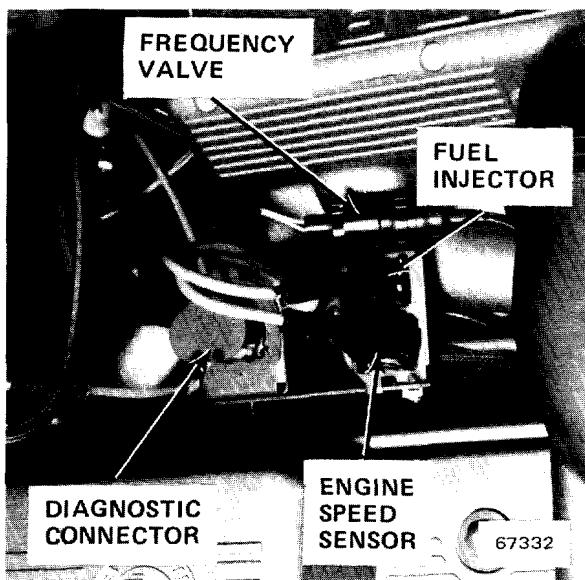
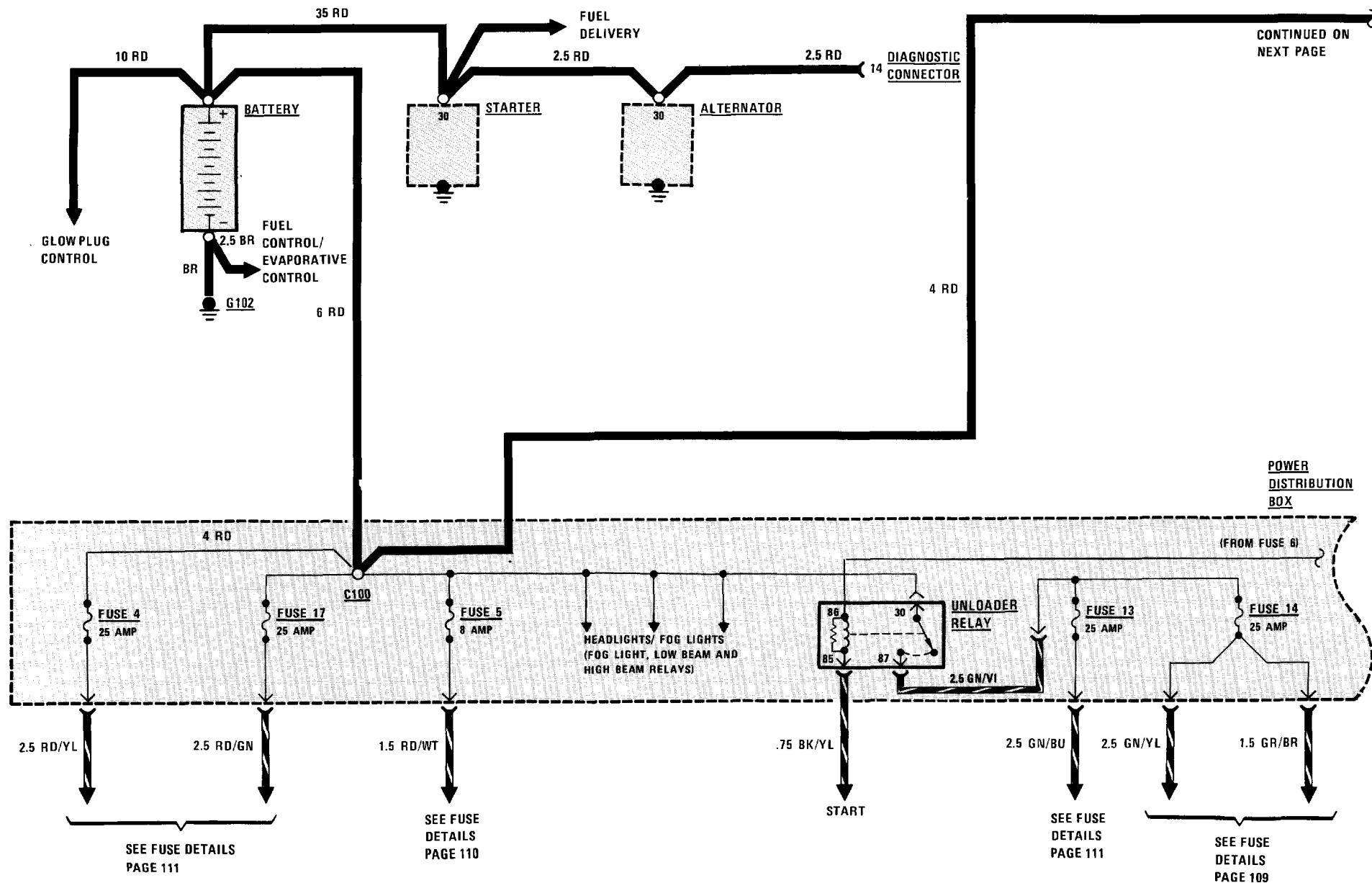


Figure 1 - Top Of Engine

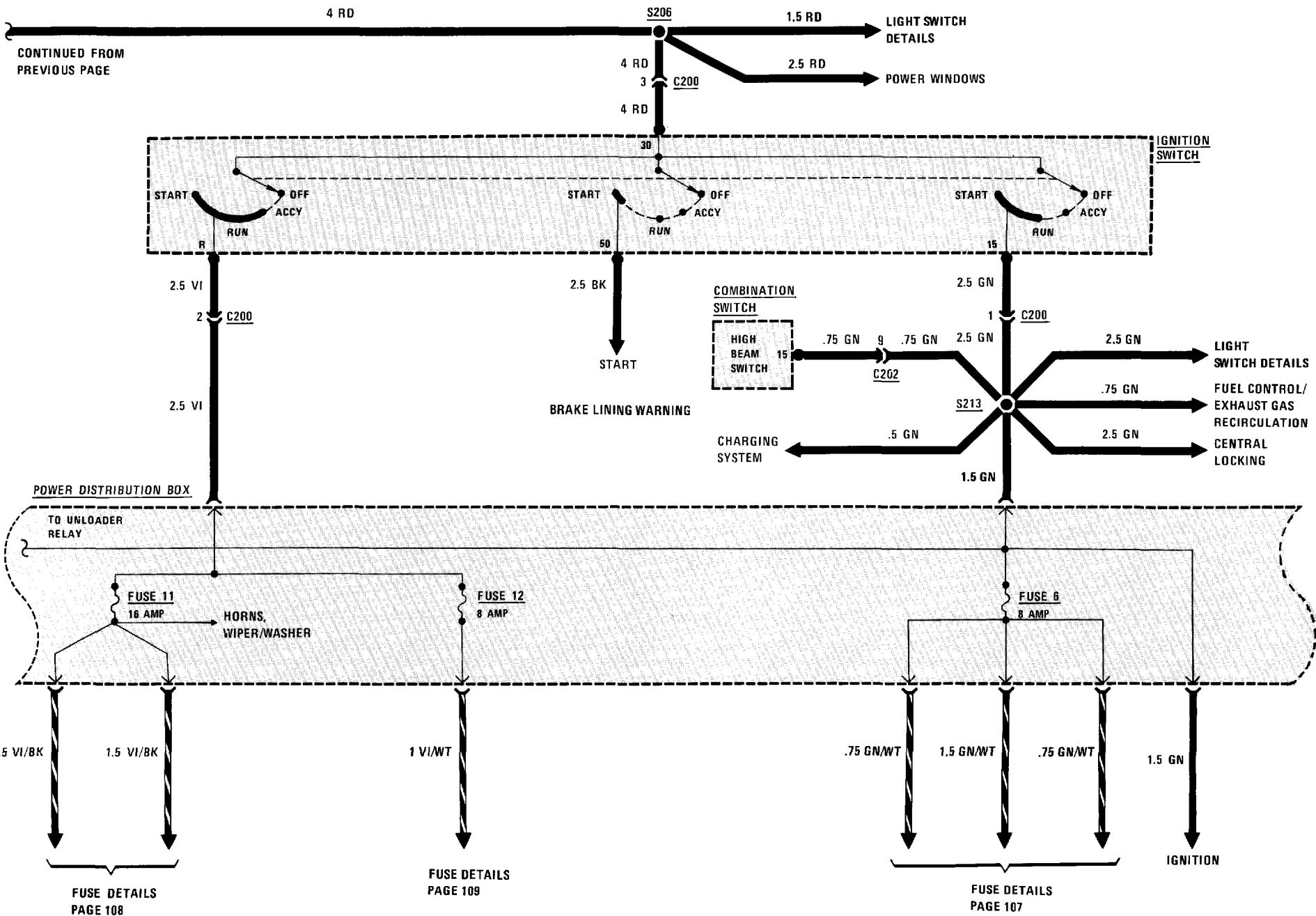
PIN	WIRE SIZE	WIRE COLOR	CIRCUIT AND COMPONENT CONNECTED
1	2.5	BR	Ground Distribution, G103.
2	.5	YL	Fuel Control, Fuel Injector.
3	.5	BK	Fuel Control, Fuel Injector.
4	.75	BR/WT	Gauges/Warning Indicators, Coolant Temperature Sender
6	.75	WT/BK	Not Used.
7	.75	WT/BU	Service Interval Indicator, Service Interval Processor (Reset).
8	.5	YL	Fuel Delivery, TDC Sensor.
9		SHIELD	Fuel Delivery, TDC Sensor.
10	.5	BK	Fuel Delivery, TDC Sensor.
11	2.5	BK/YL	Start, Start Signal.
12	.75	BU	Charge System, Alternator.
14	2.5	RD	Charge System, Alternator.
15	2.5	GN	Evaporative Control, Main Relay.

(For Component Locations See Page 210)



106 POWER DISTRIBUTION

(For Component Location See Page 210)



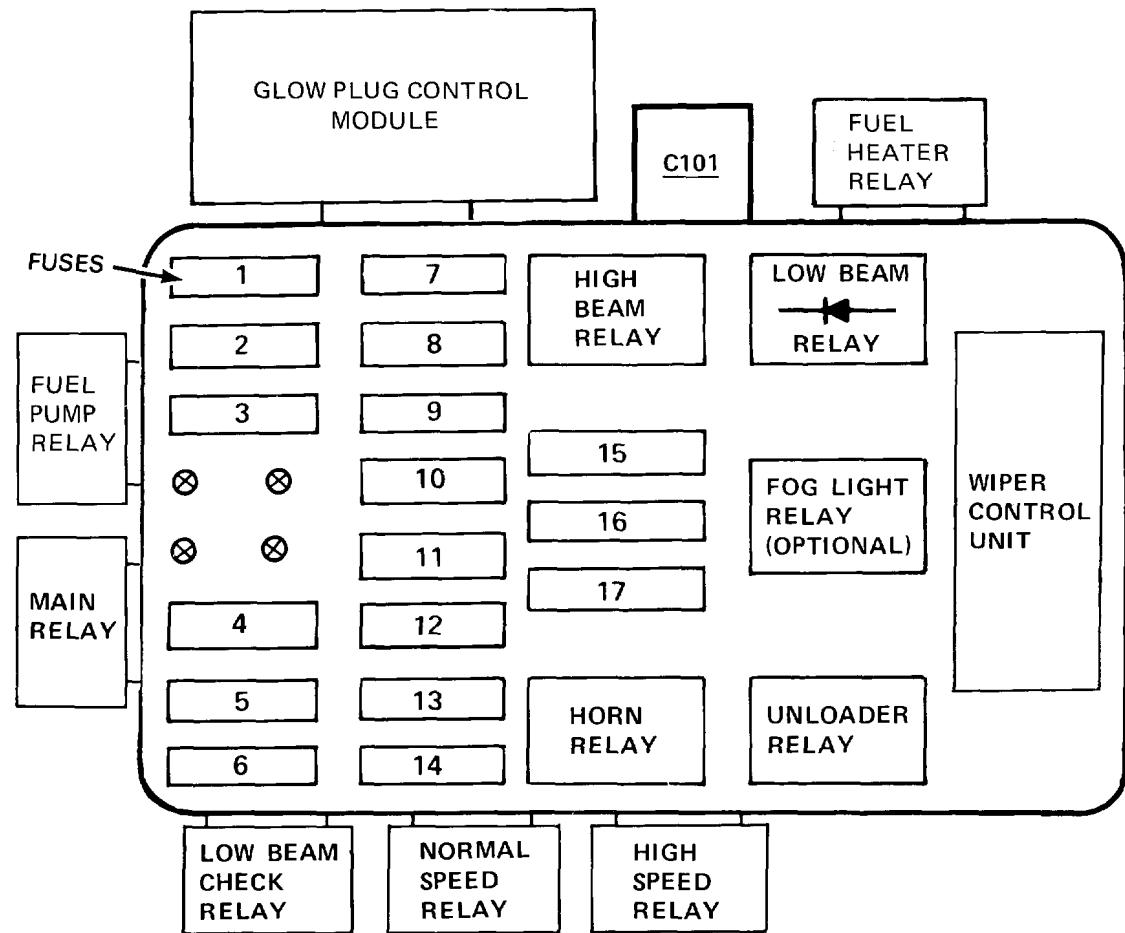
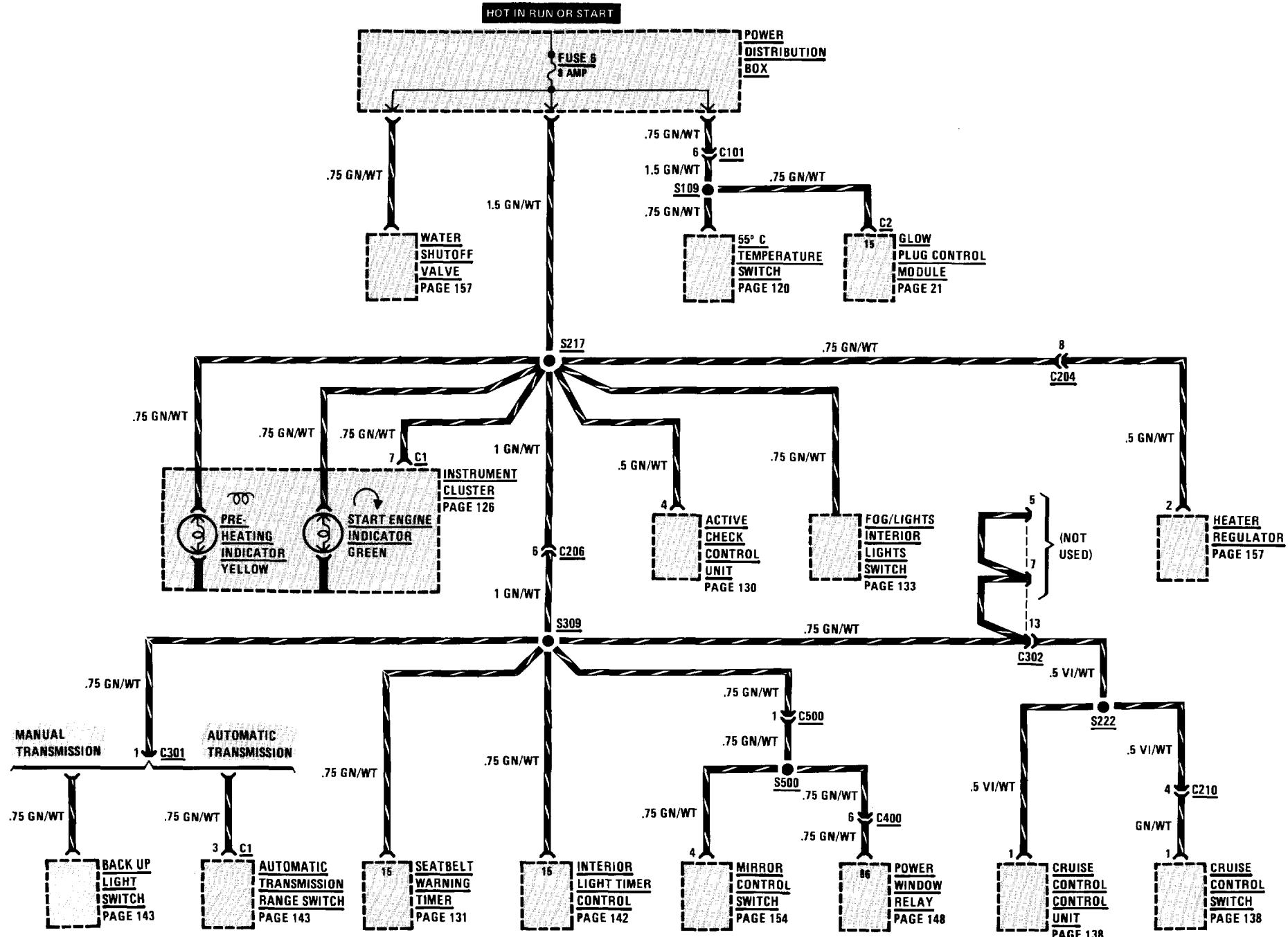


Figure 1 - Top Of Left Front Wheel Well

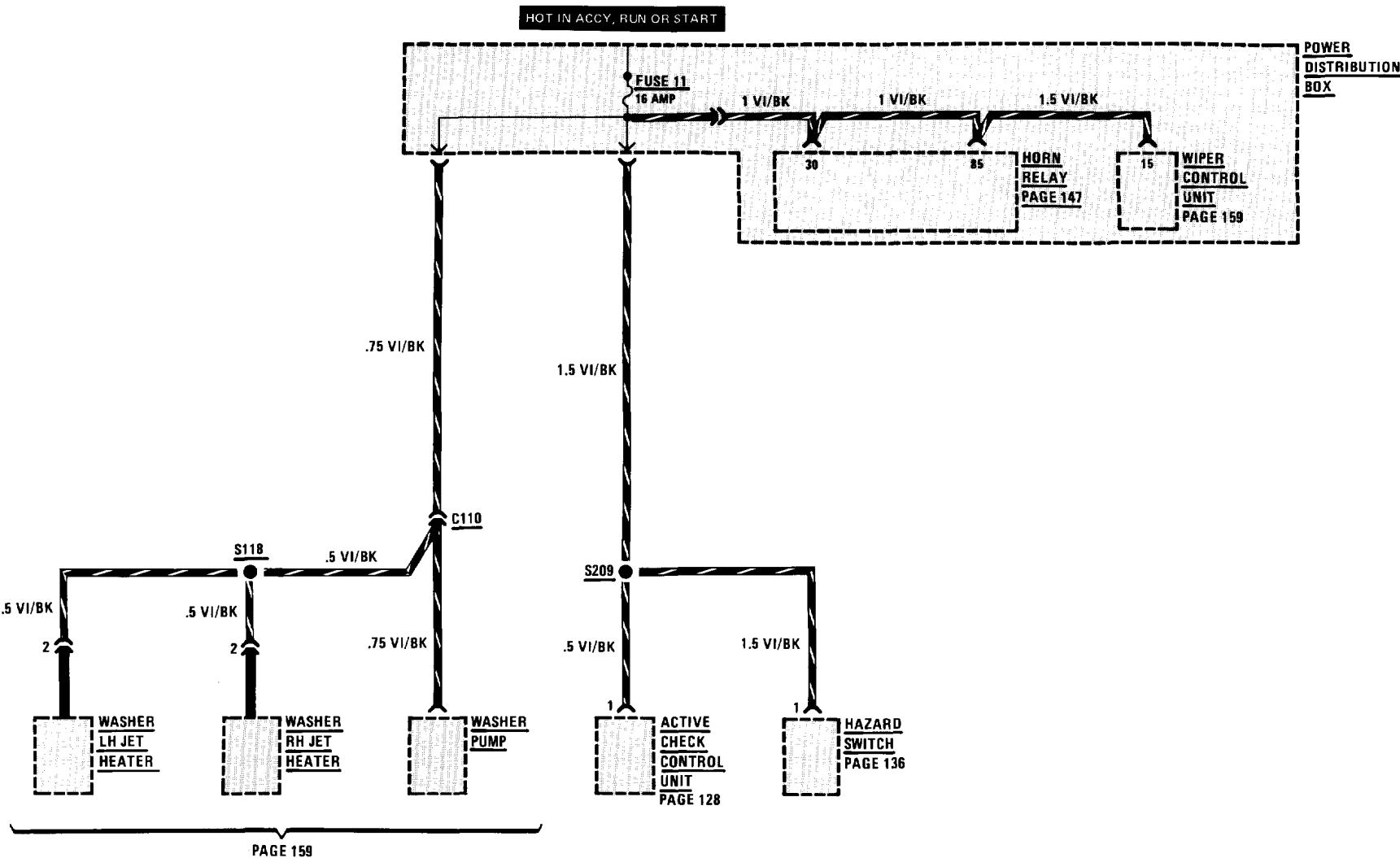
106B FUSE DATA

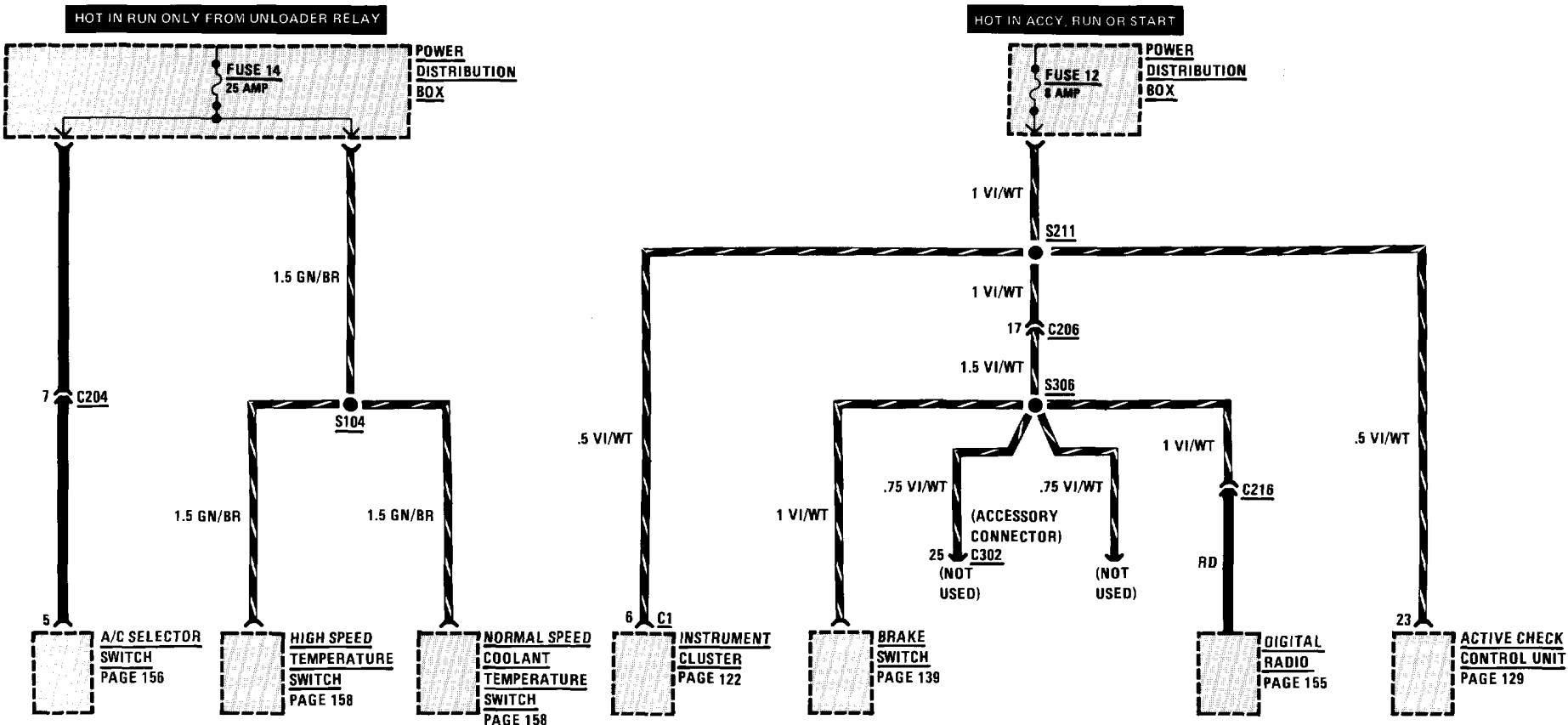
FUSE NO.	SIZE/COLOR	CIRCUIT NAME
1	16A (RD)	Fuel Delivery/Evaporative Control.
2	8A (WT)	Active Check Control (also fuse 5, 6, 9, 10, 11, 12); Headlights (RH Low Beam).
3	8A (WT)	Active Check Control (also fuses 5, 6, 9, 10, 11, 12); Headlights (LH Low Beam).
4	25 (BU)	Cigar Lighter. Radio/Power Antenna (also fuses 5, 12); Power Seats.
5	8A (WT)	Active Check Control (also fuses 2, 3, 6, 9, 10, 11, 12) Heated Door Lock Ignition Key Warning/Seatbelt Warning (also fuse 6); Interior Lights (also fuse 6); Lights: Turn/Hazard Warning (also fuse 11); Lights: Trunk; Glove Box/Auto-Charging Flashlight; Central Locking; On-Board Computer (also fuses 6, 12); Radio/Power Antenna (also fuses 4, 12); Service Interval Indicator (also fuse 6).
6	8A (WT)	Active Check Control (also fuses 2, 3, 5, 9, 10, 11, 12); Back Up Lights/Transmission Range Lights; Fuel Delivery Cruise Control (also fuse 12); Dash Lights (also fuse 9, 14); Fog Lights (also fuses 15, 16); Gauges (also fuse 5); Heater/Air Conditioning (also fuse 14); Idle Speed Control; Ignition; Interior Lights (also fuse 5); On-Board Computer (also fuses 5, 12); Power Mirrors. Power Windows (also Power Window Circuit Breaker); Seatbelt Warning (also fuse 5); Glow Plug Control Speedometer; Warning Indicators
7	8A (WT)	Headlights (RH High Beams).

FUSE NO.	SIZE/COLOR	CIRCUIT NAME
8	8A (WT)	Headlights (LH High Beams)
9	8A (WT)	Active Check Control (also fuses 2, 3, 5, 6, 10, 11, 12); Dash Lights (also fuses 6, 14); Lights: Front Park/Front Marker/Tail. Lights: Rear Marker/License.
10	8A (WT)	Active Check Control (also fuse 2, 3, 5, 6, 9, 11, 12); Lights: Front Park/Front Marker/Tail. Lights: Rear Marker/License
11	16A (RD)	Active Check Control (also fuse 2, 3, 5, 6, 9, 11, 12); Lights: Turn/Hazard Warning (also fuse 5); Wiper/Washer and Heater Washer Jets. Horn.
12	8A (WT)	Active Check Control (also fuses 2, 3, 5, 6, 9, 10, 11); Cruise Control (also fuse 6); Radio (also fuses 4, 5); Stoplights; On-Board Computer (also fuses 5, 6); Power Antenna (also fuses 4, 5).
13	16A (BU)	Rear Defogger; Sunroof.
14	25A (BU)	Auxiliary Fan (also fuse 17); Dash Lights (also fuses 6, 9); Heater/Air Conditioning (also fuse 6).
15	8A (WT)	Fog Lights (RH).
16	8A (WT)	Fog Lights (LH).
17	25A (BU)	Auxiliary Fan (also fuse 14).
Power Window Circuit Breaker	25A	Power Windows (also fuse 6).

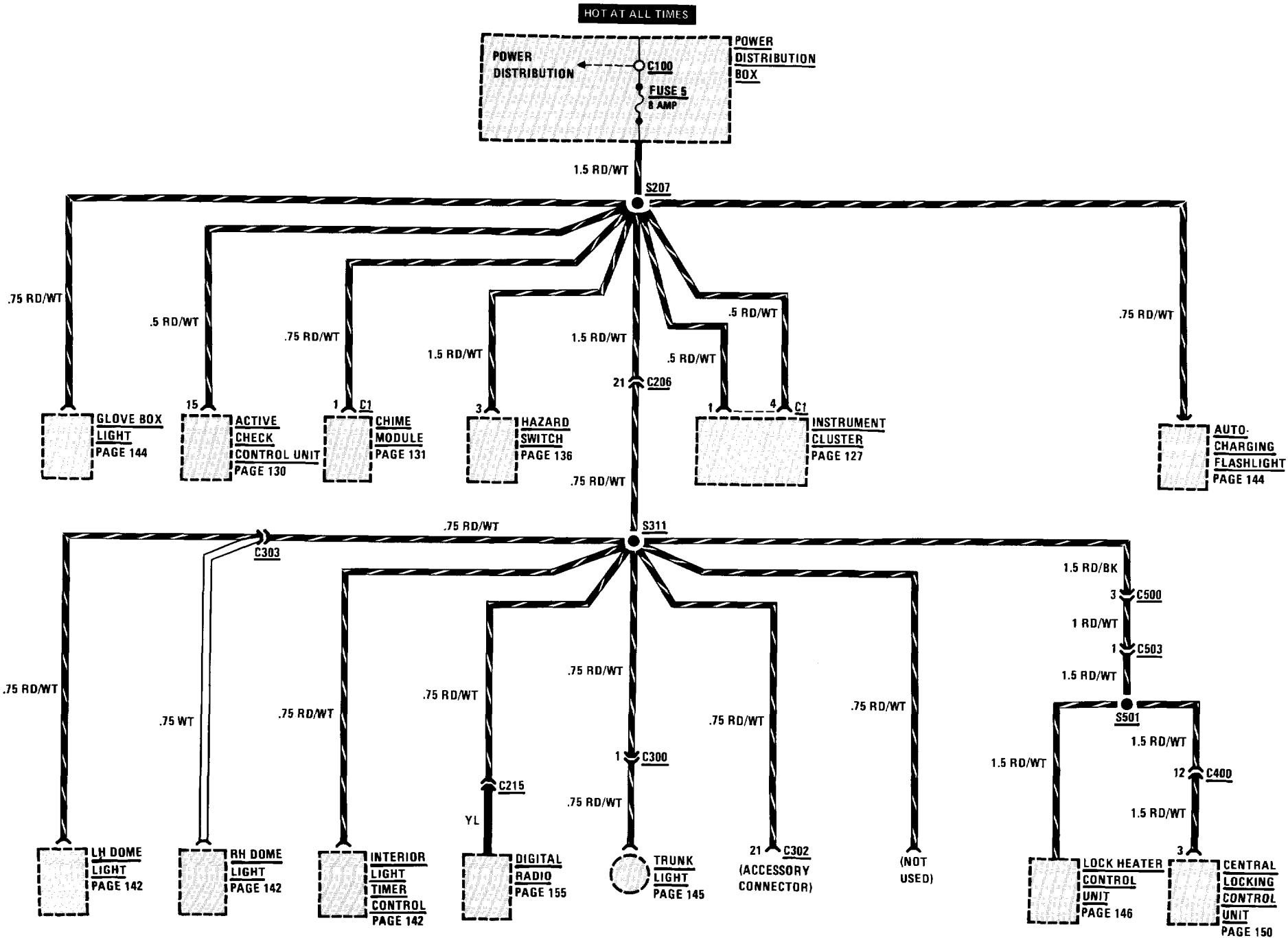


108 FUSE DETAILS: FUSE 11

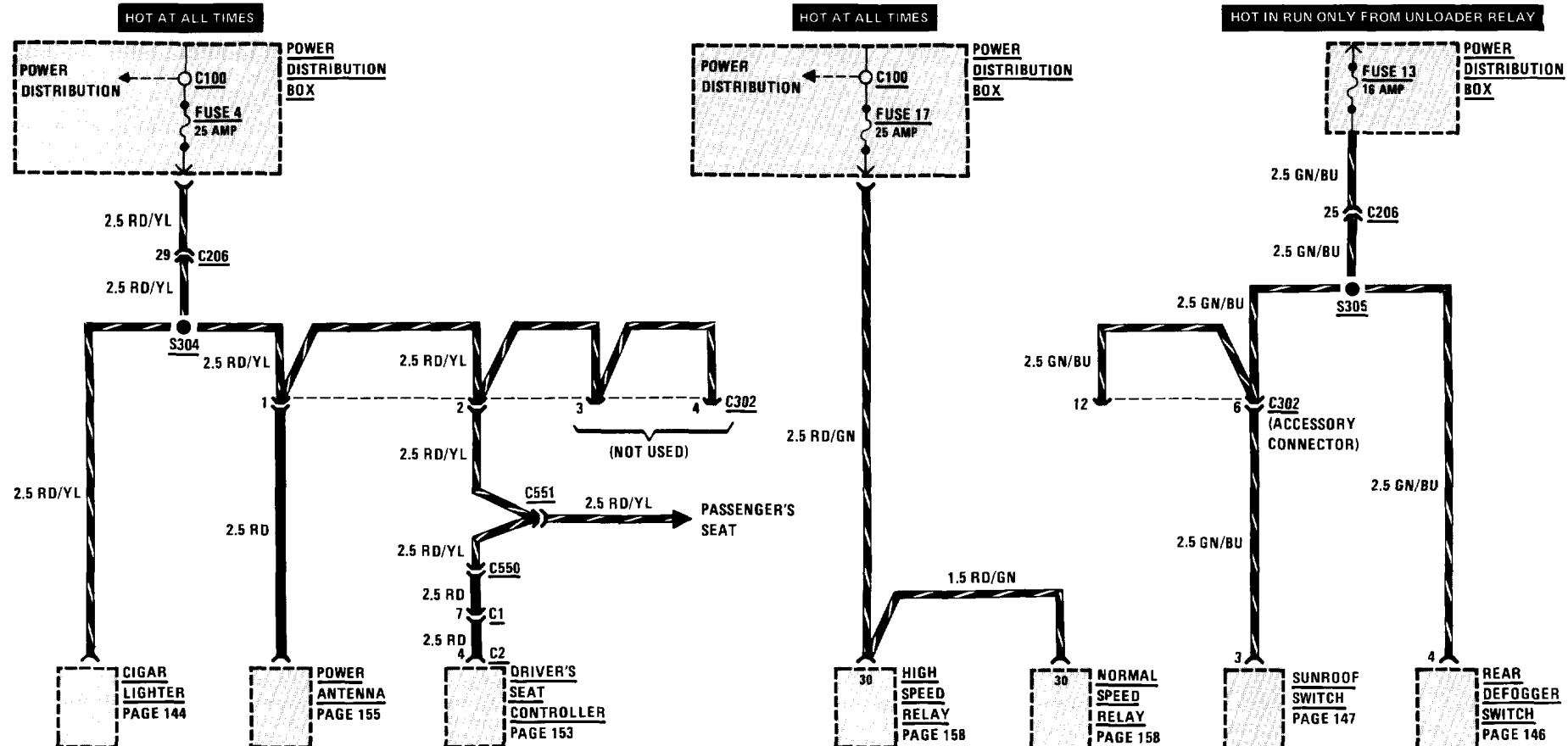




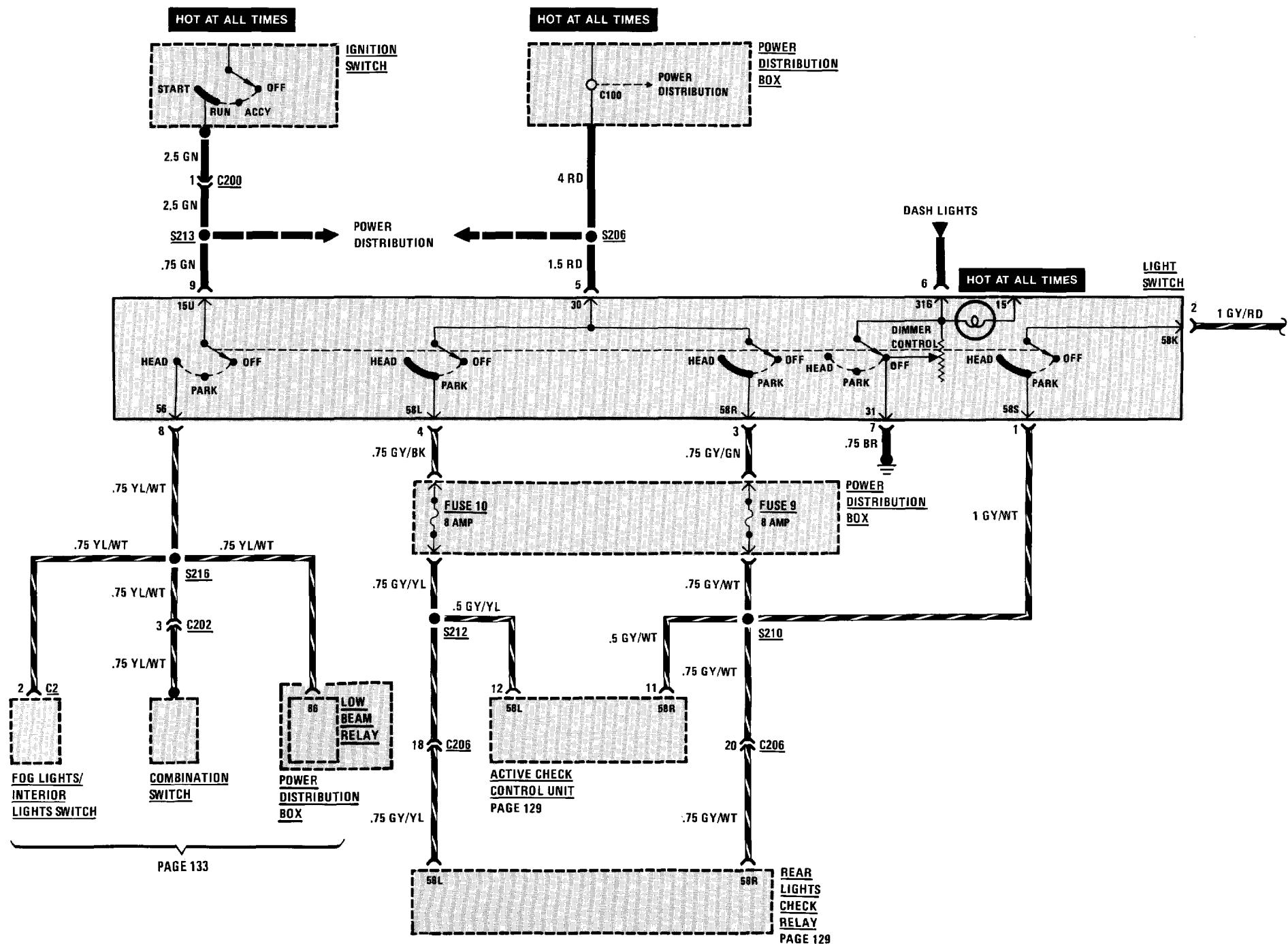
110 FUSE DETAILS: FUSE 5



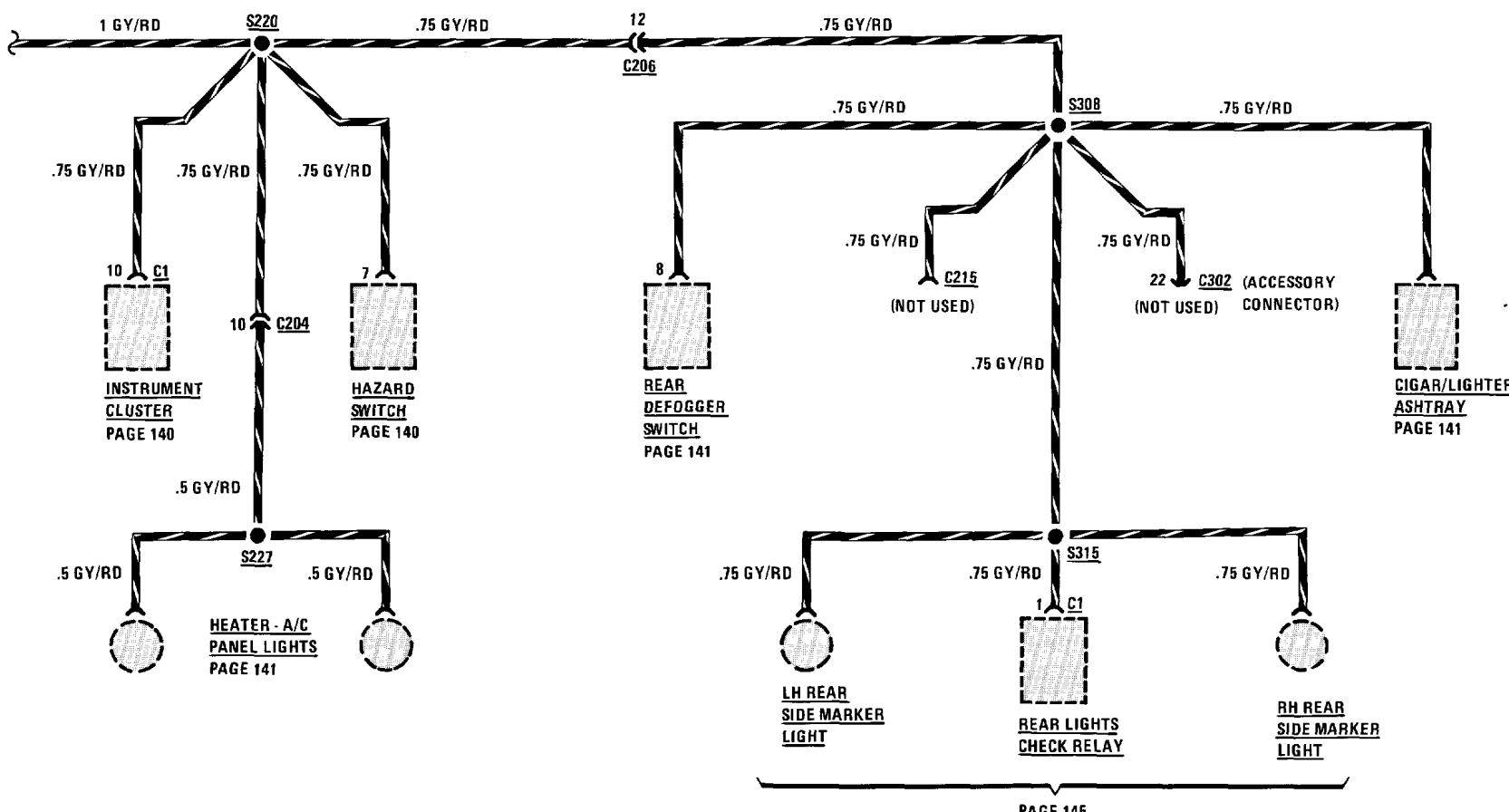
FUSE DETAILS: FUSES 4, 17, AND 13 111

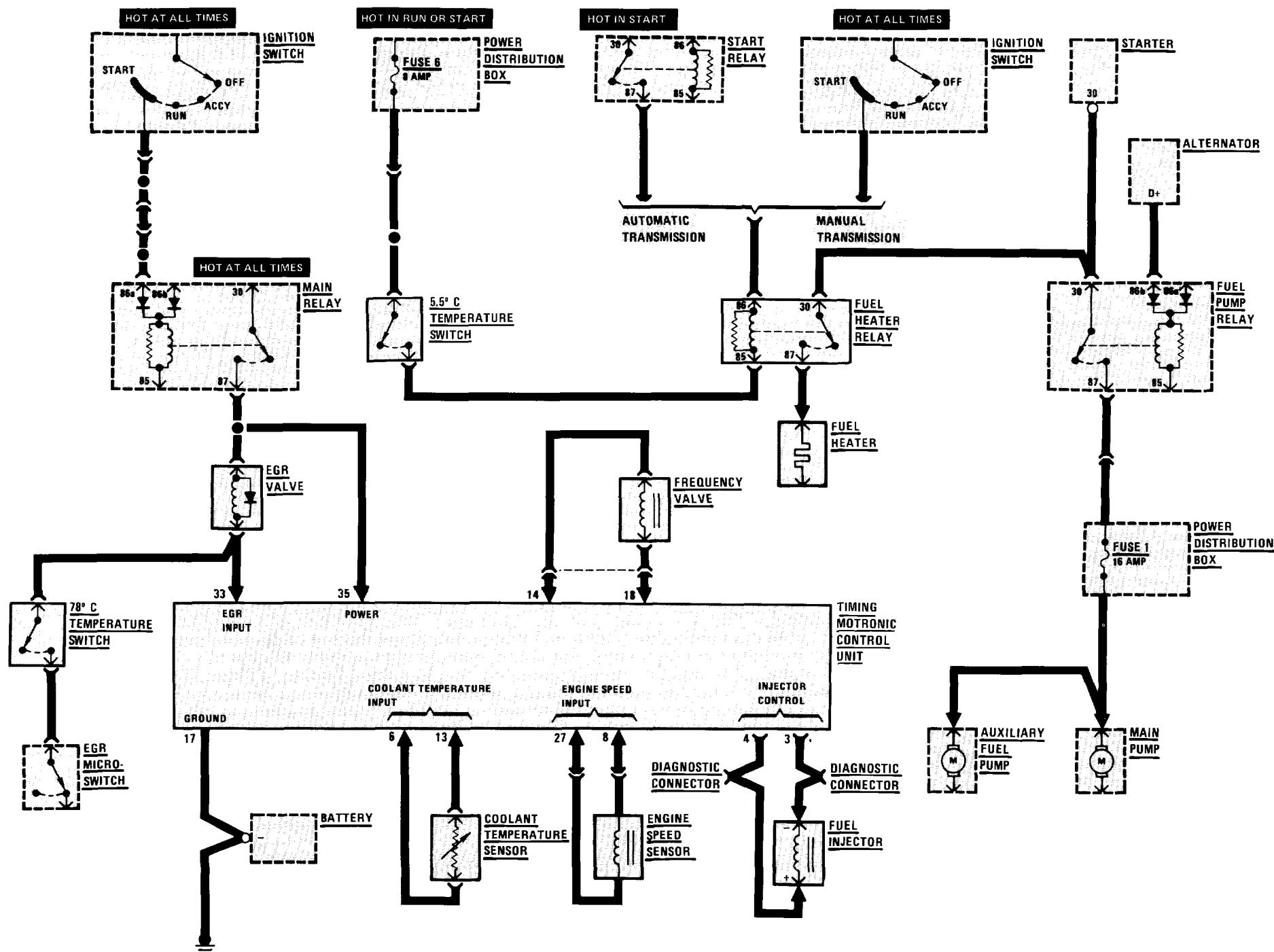


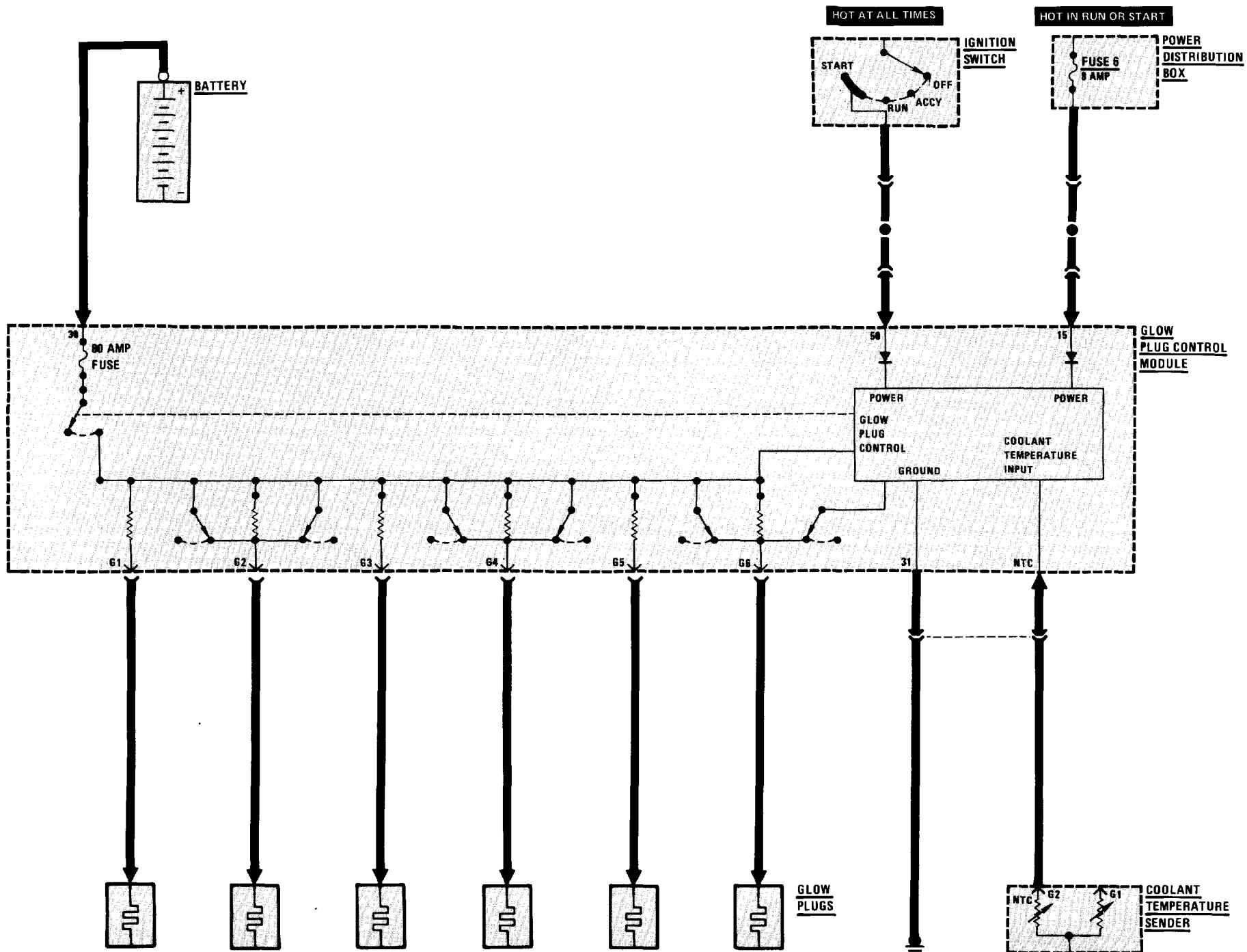
112 LIGHT SWITCH DETAILS



PAGE 133

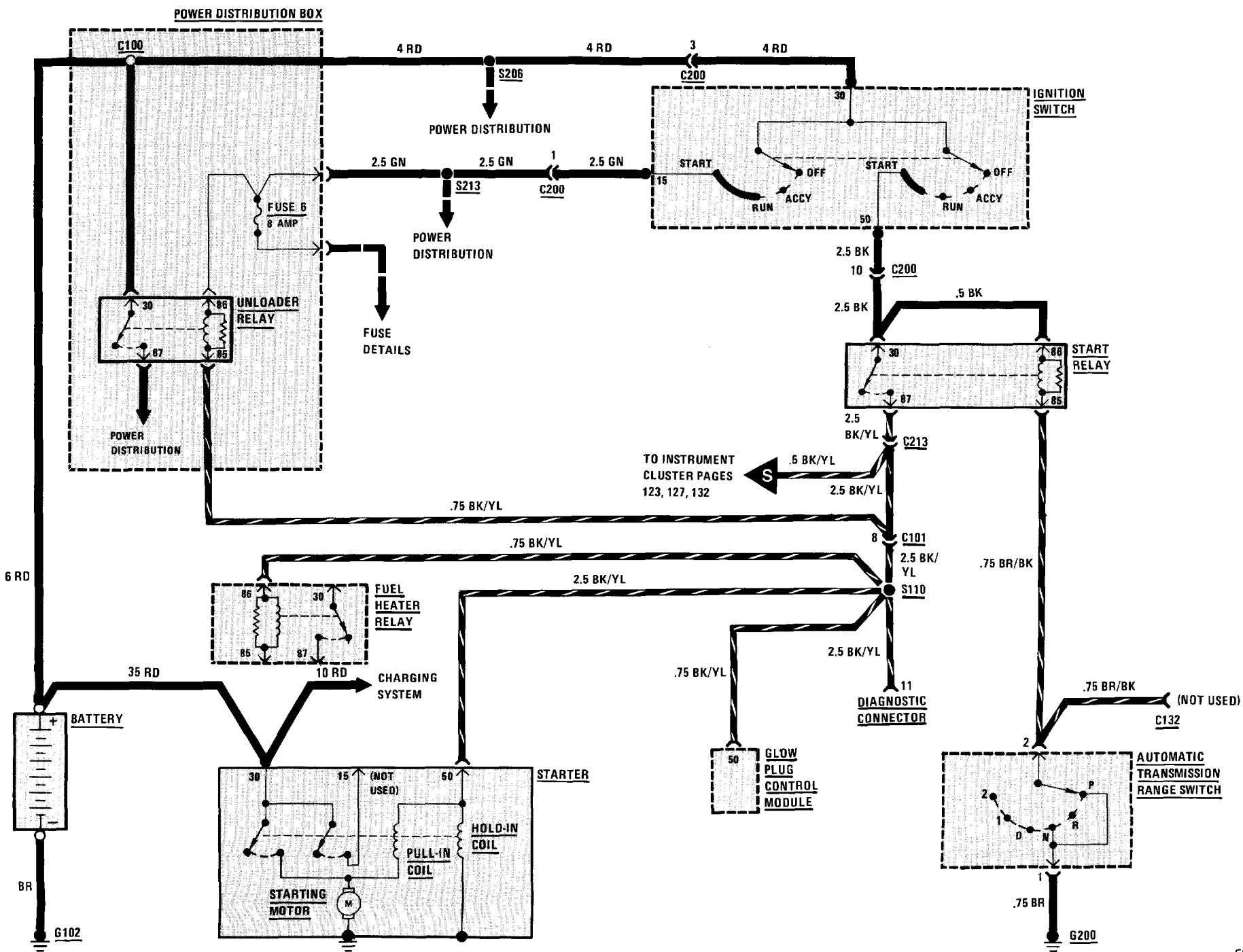




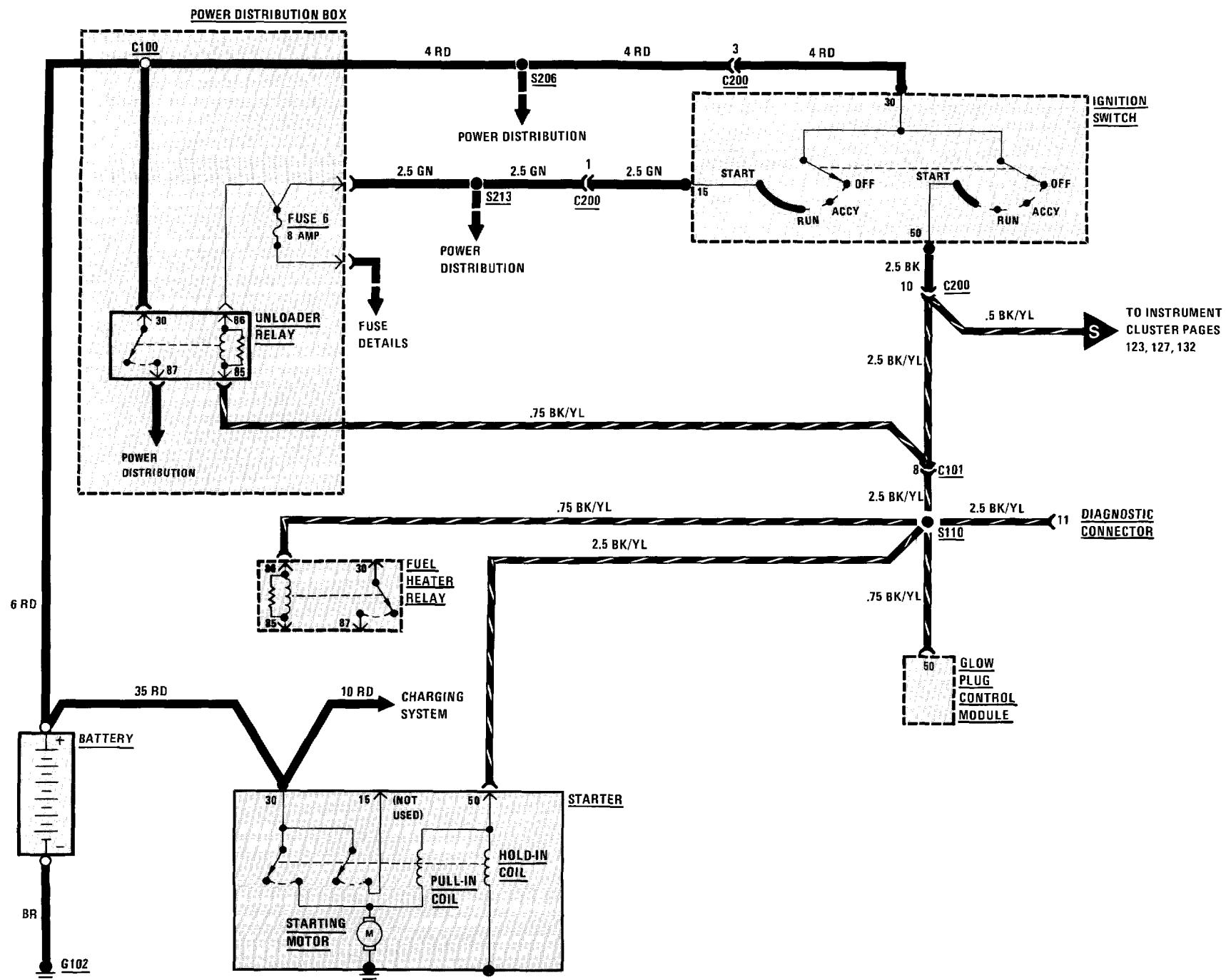


116 START (AUTOMATIC TRANSMISSION)

(For Component Locations See Page 214)

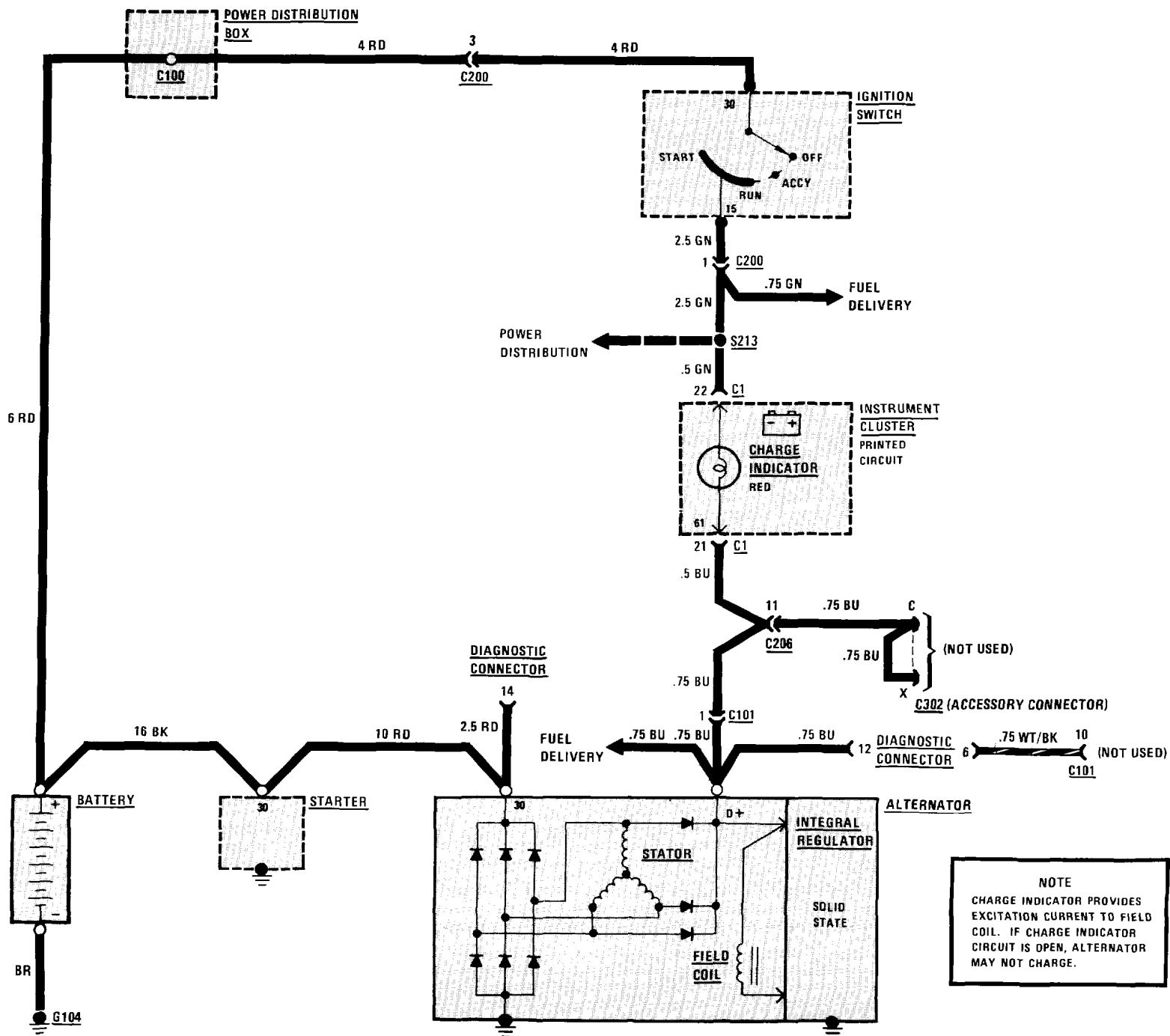


(For Component Location See Page 214)

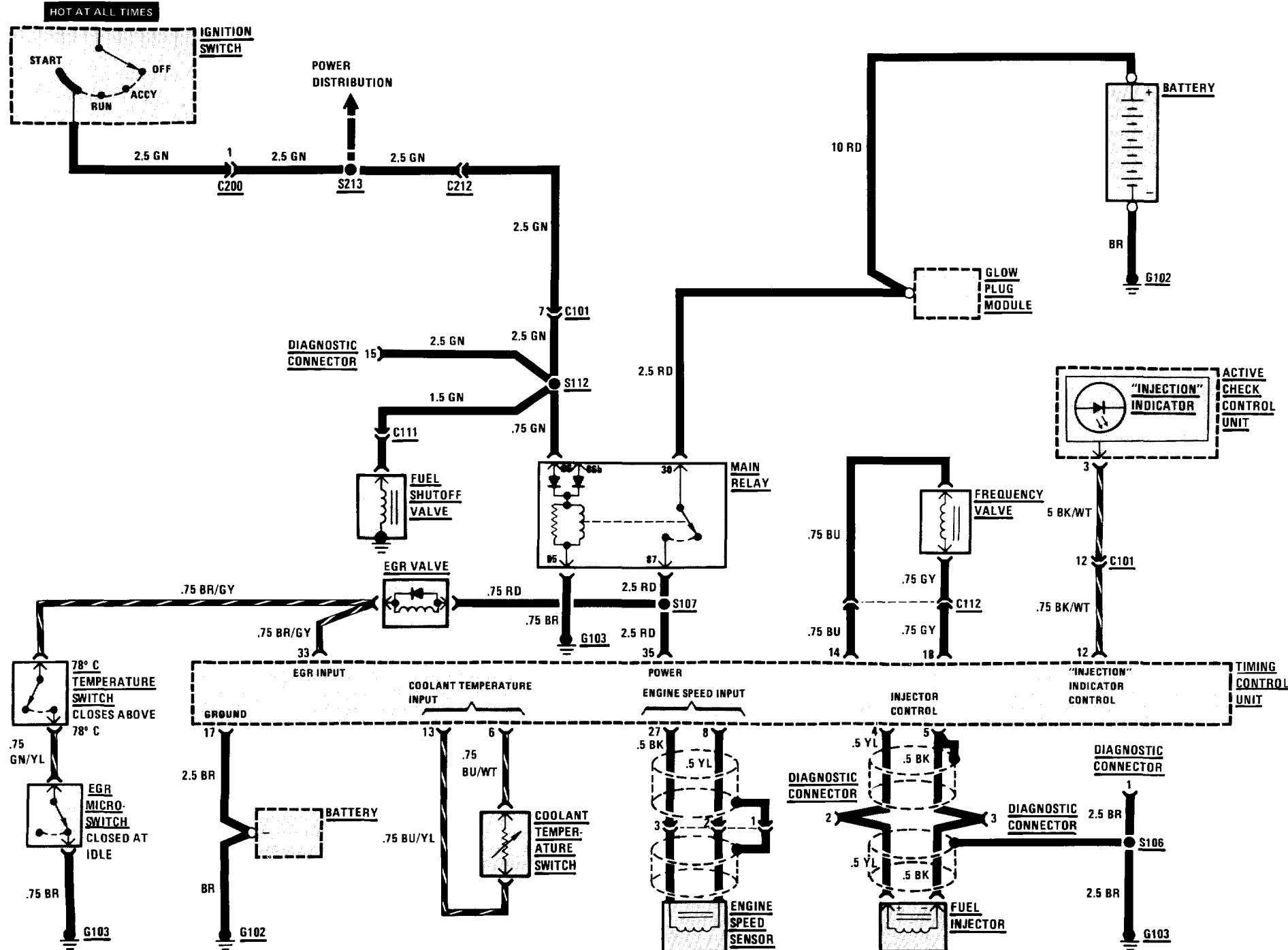


118 CHARGING SYSTEM

(For Component Locations See Page 203)

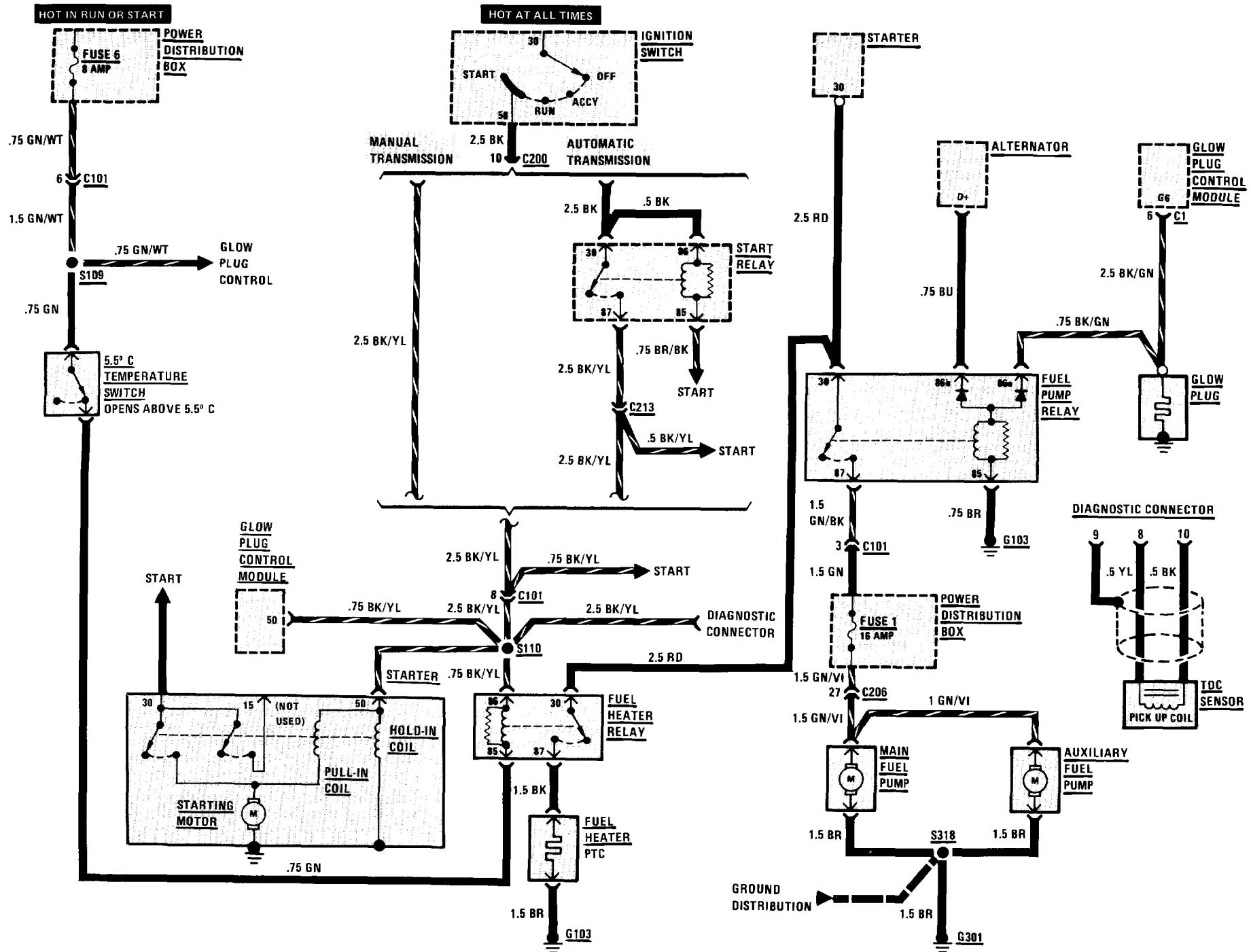


(For Component Location See Page 204)

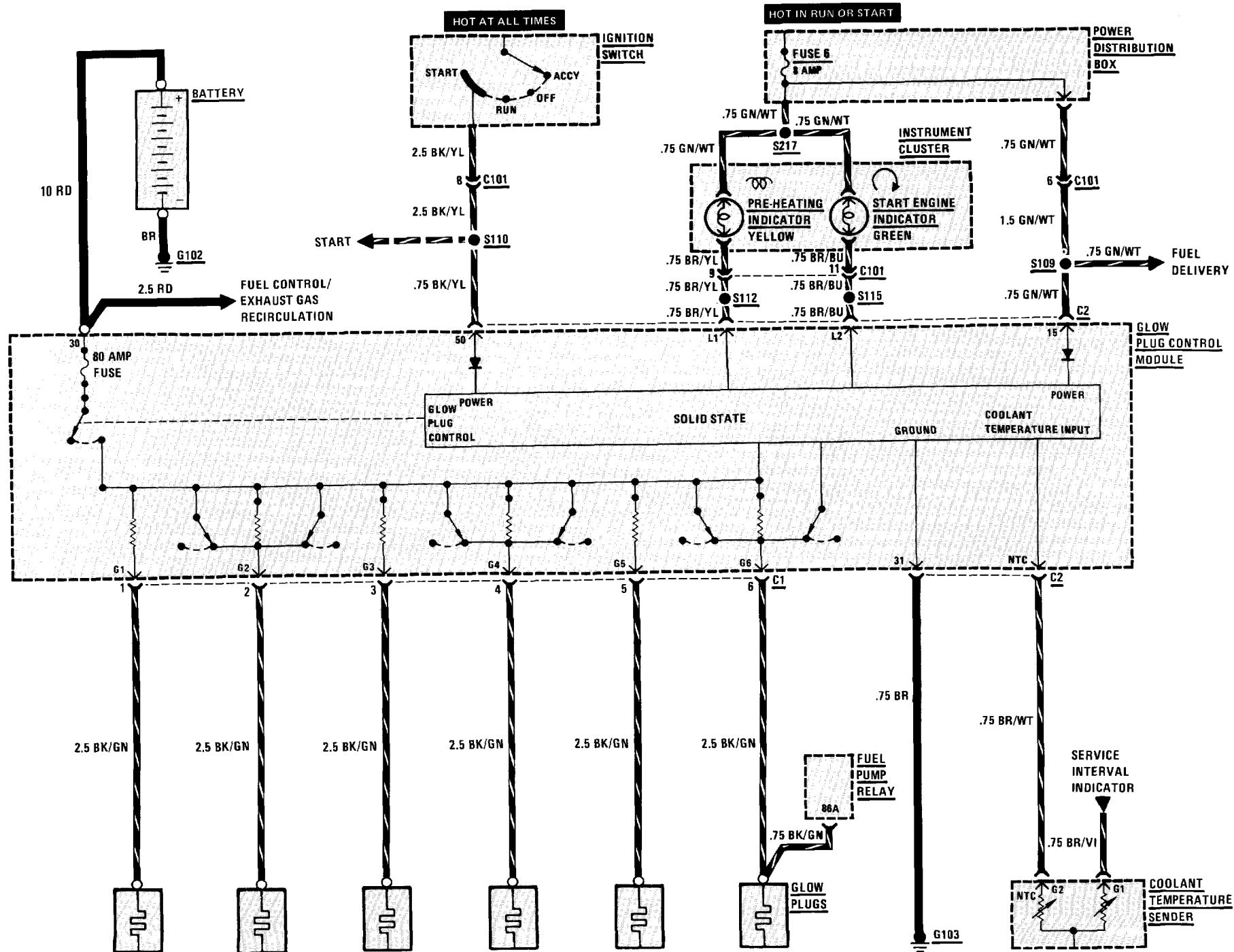


120 FUEL DELIVERY

(For Component Location See Page 204)



(For Component Locations See Page 205)

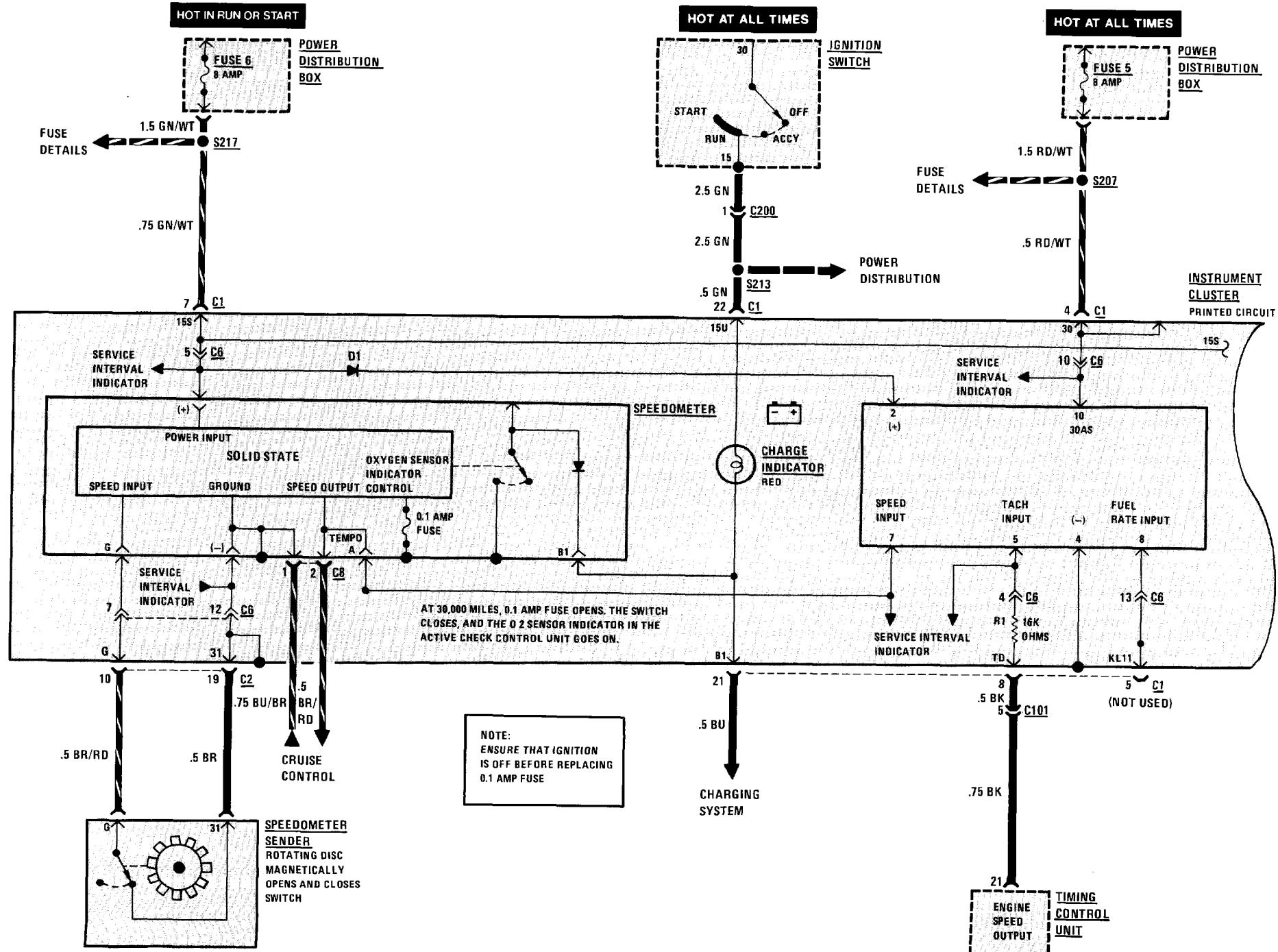


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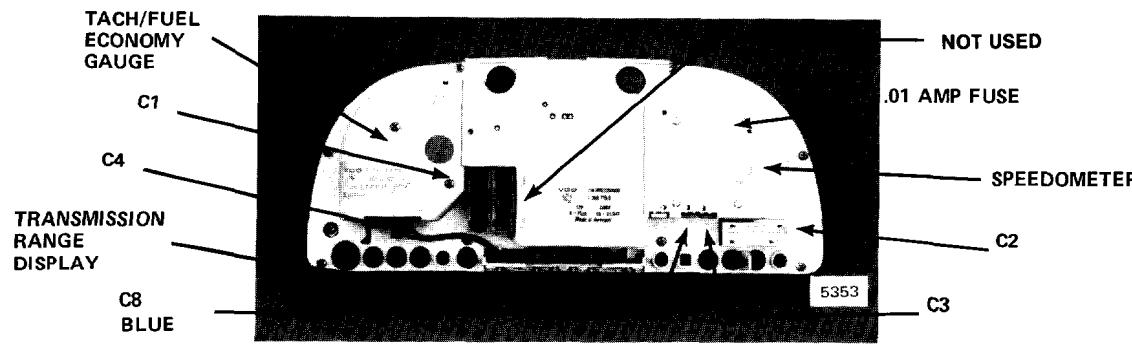
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124 SPEEDOMETER/GAUGES/WARNING INDICATORS

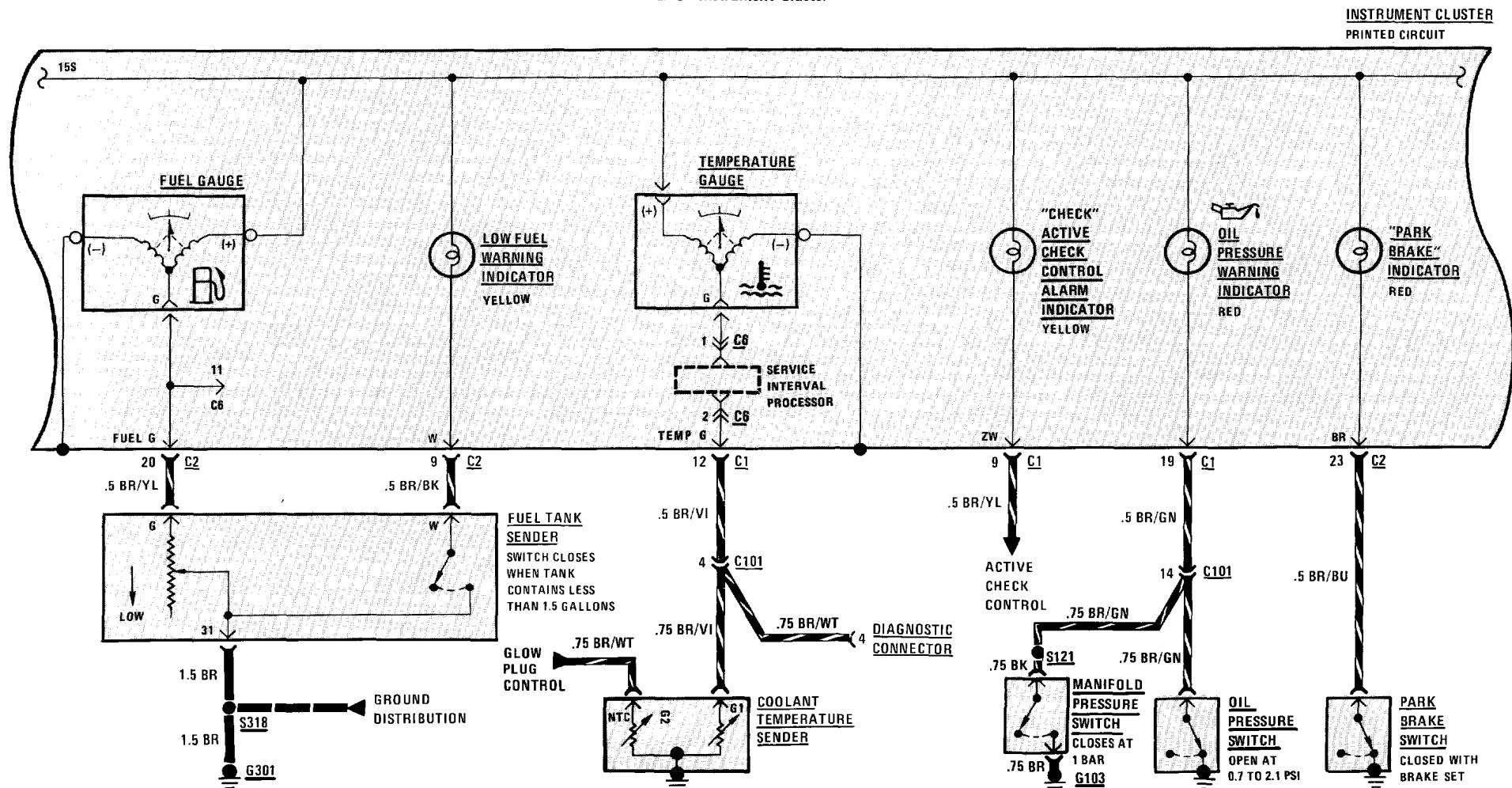
(For Component Location See Page 213)



(For Component Location See Page 213)

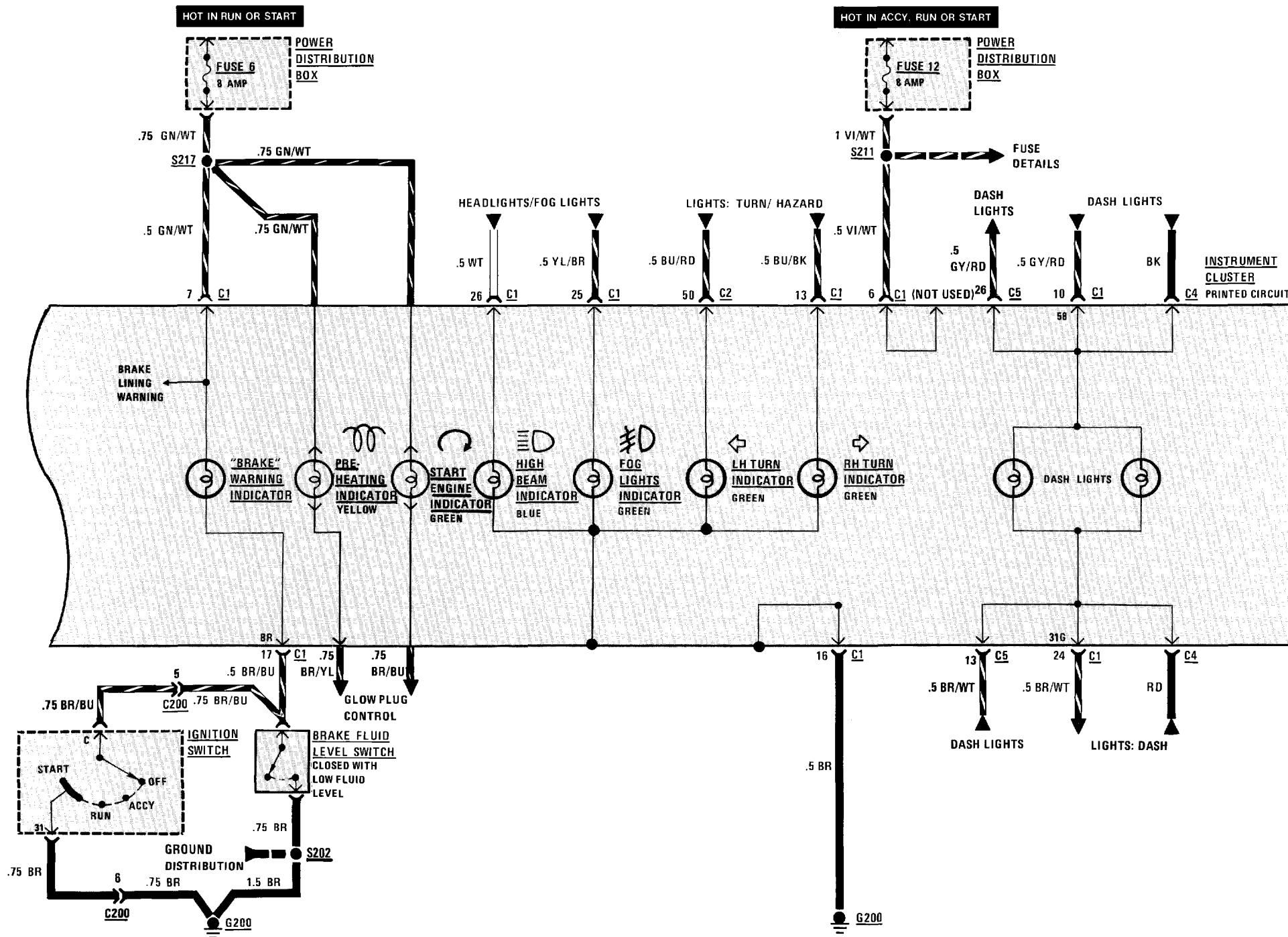


Rear Of Instrument Cluster

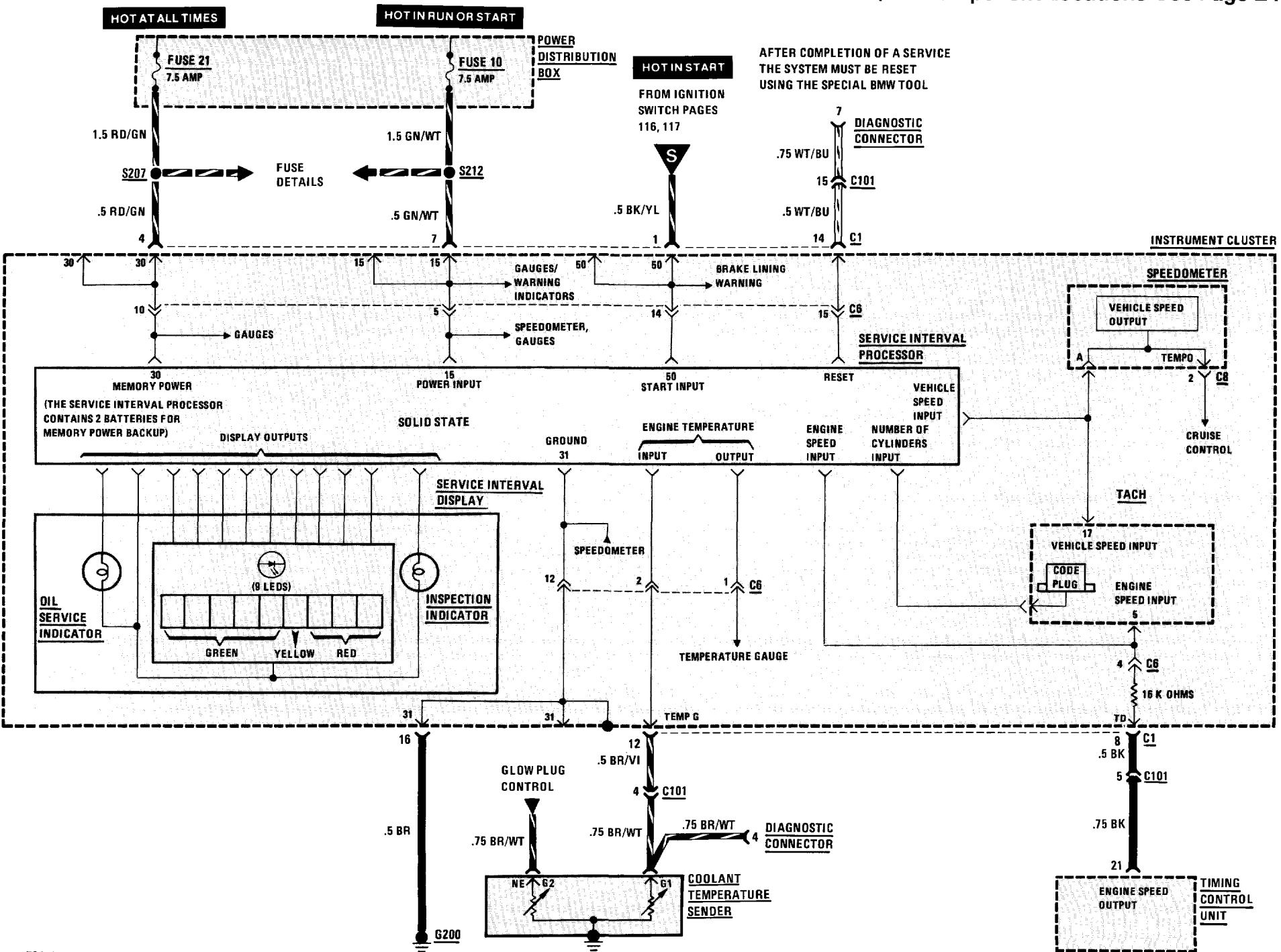


126 WARNING INDICATORS

(For Component Location See Page 213)



(For Component Locations See Page 211)



(For Component Locations See Page 201)

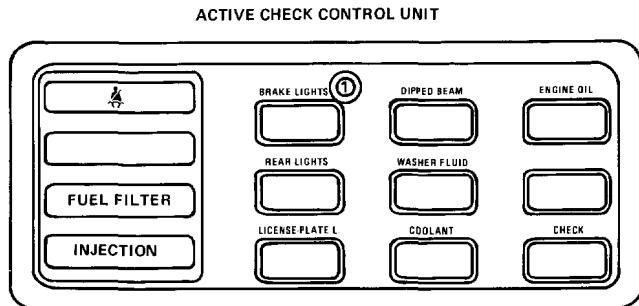
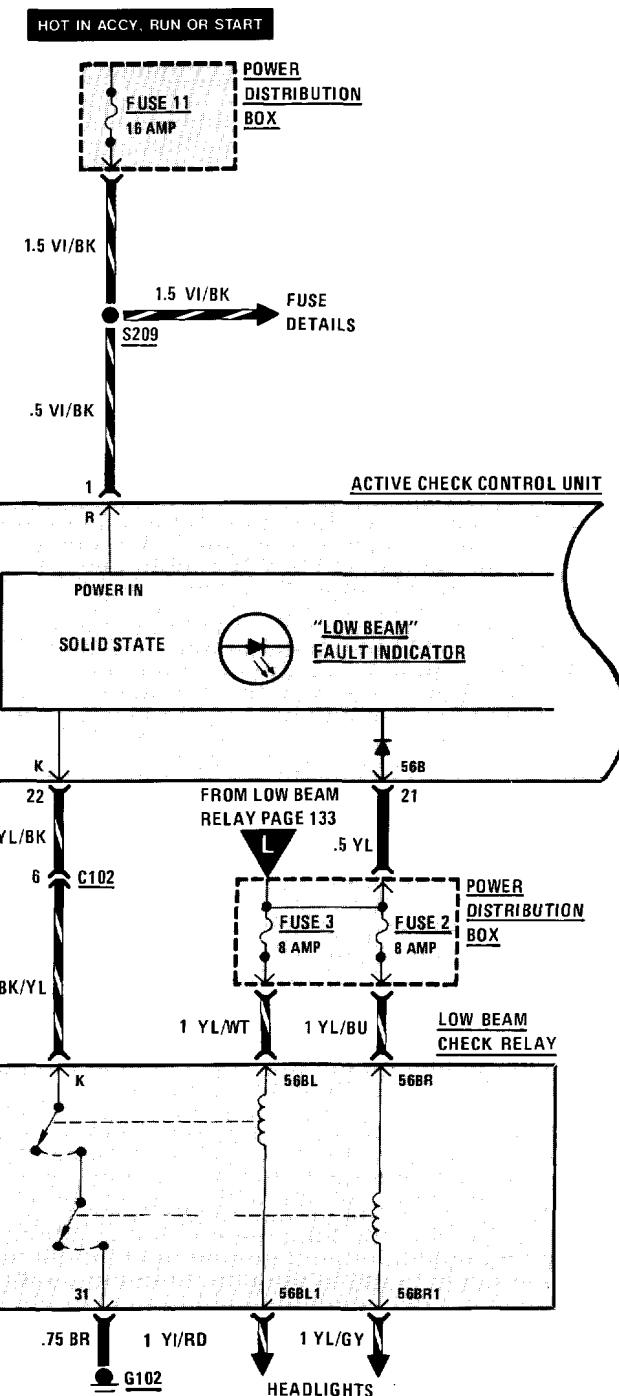


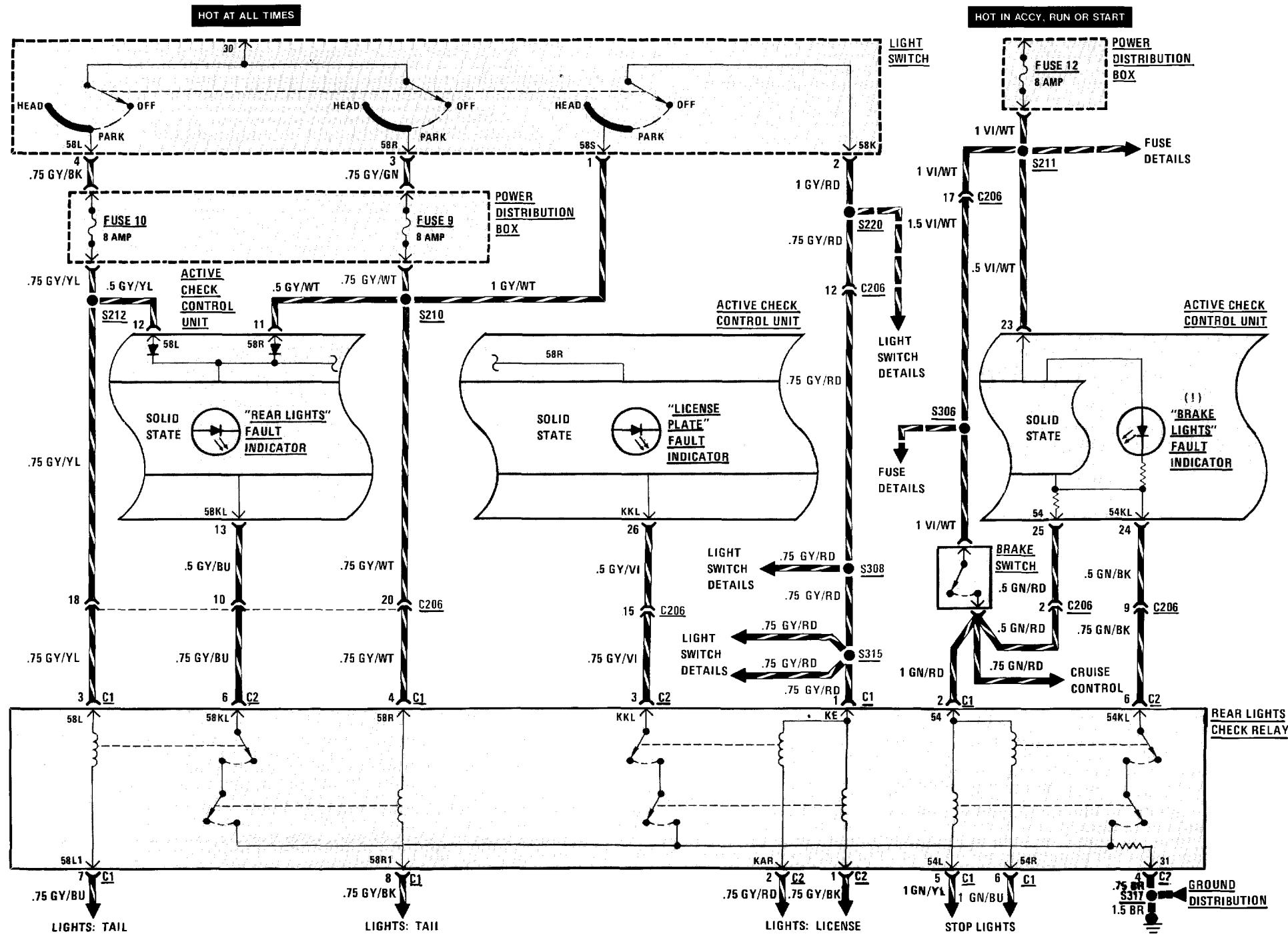
Figure 1 - Above Rear View Mirror

ACTIVE CHECK CONTROL

- When the Ignition Switch is initially placed in "Run," the Active Check Control Alarm Indicator flashes, and the Active Check Control Unit Brake Light LED and panel light illuminate for test purposes. Depressing the brake pedal clears the display.
 - When the Ignition Switch is placed in "Run," fault monitoring begins. To monitor the low beams, rear lights, or license lights, those circuits must be on. The brake lights are monitored only while the brake pedal is depressed.
 - When a fault occurs, the alarm indicator flashes, the appropriate LED indicator lights, and the panel light goes on for five seconds. Depressing the test button will clear the alarm indicator, but the LED fault indicator remains on.
 - To test the unit, depress the test button. The LED fault indicators and panel lights should go on.

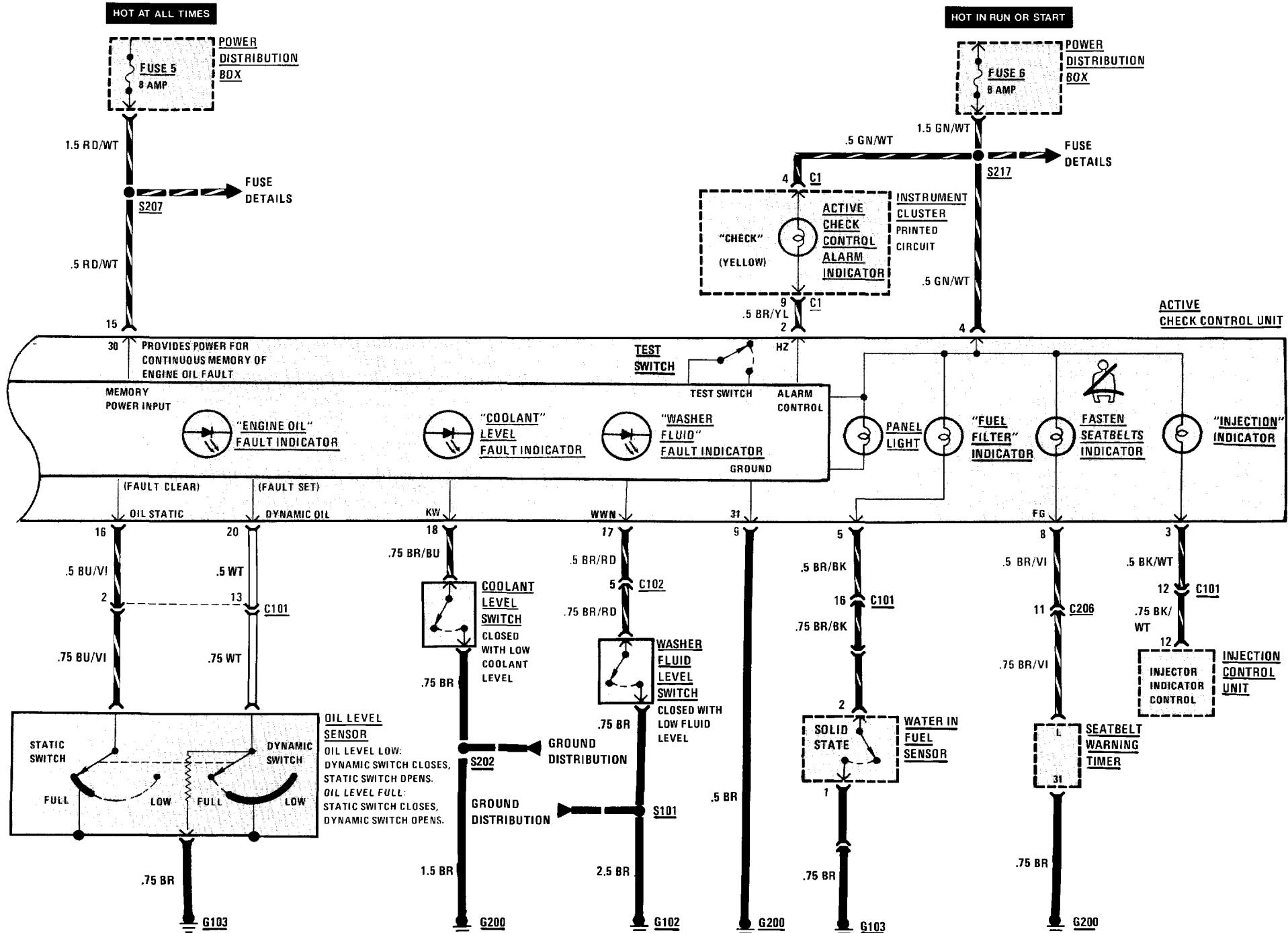


(For Component Location See Page 201)

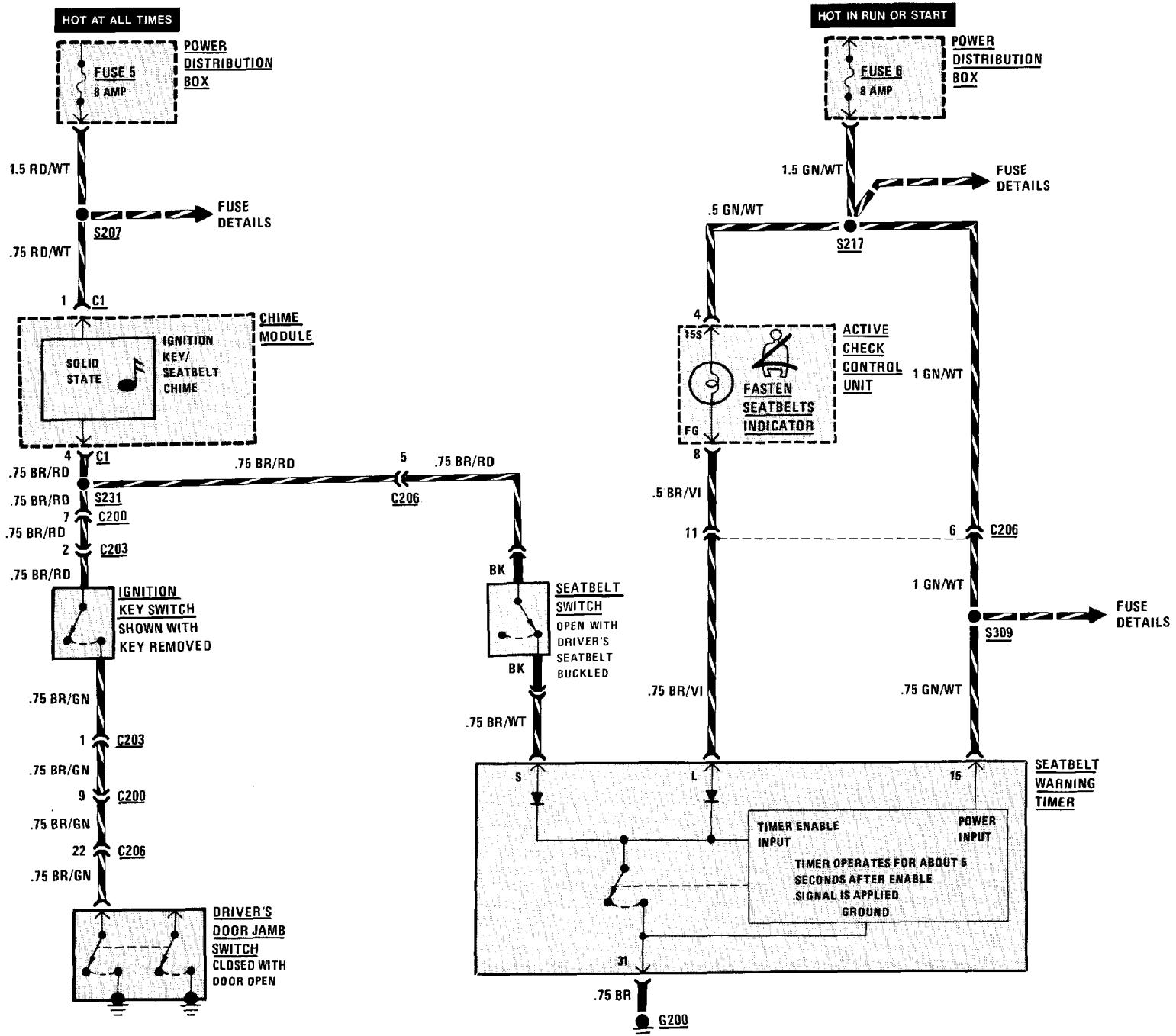


130 ACTIVE CHECK CONTROL

(For Component Locations See Page 201)

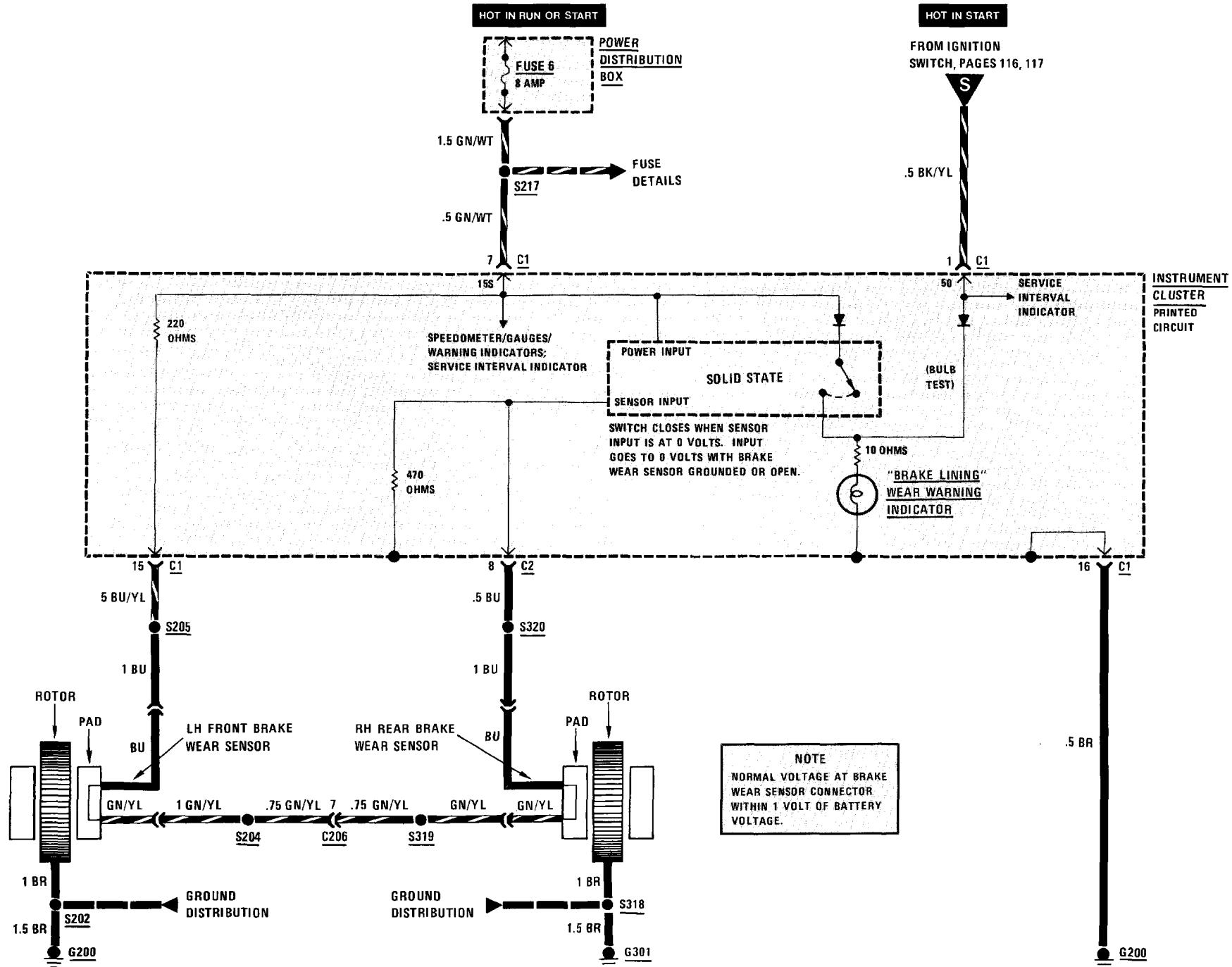


(For Component Location See Page 206)

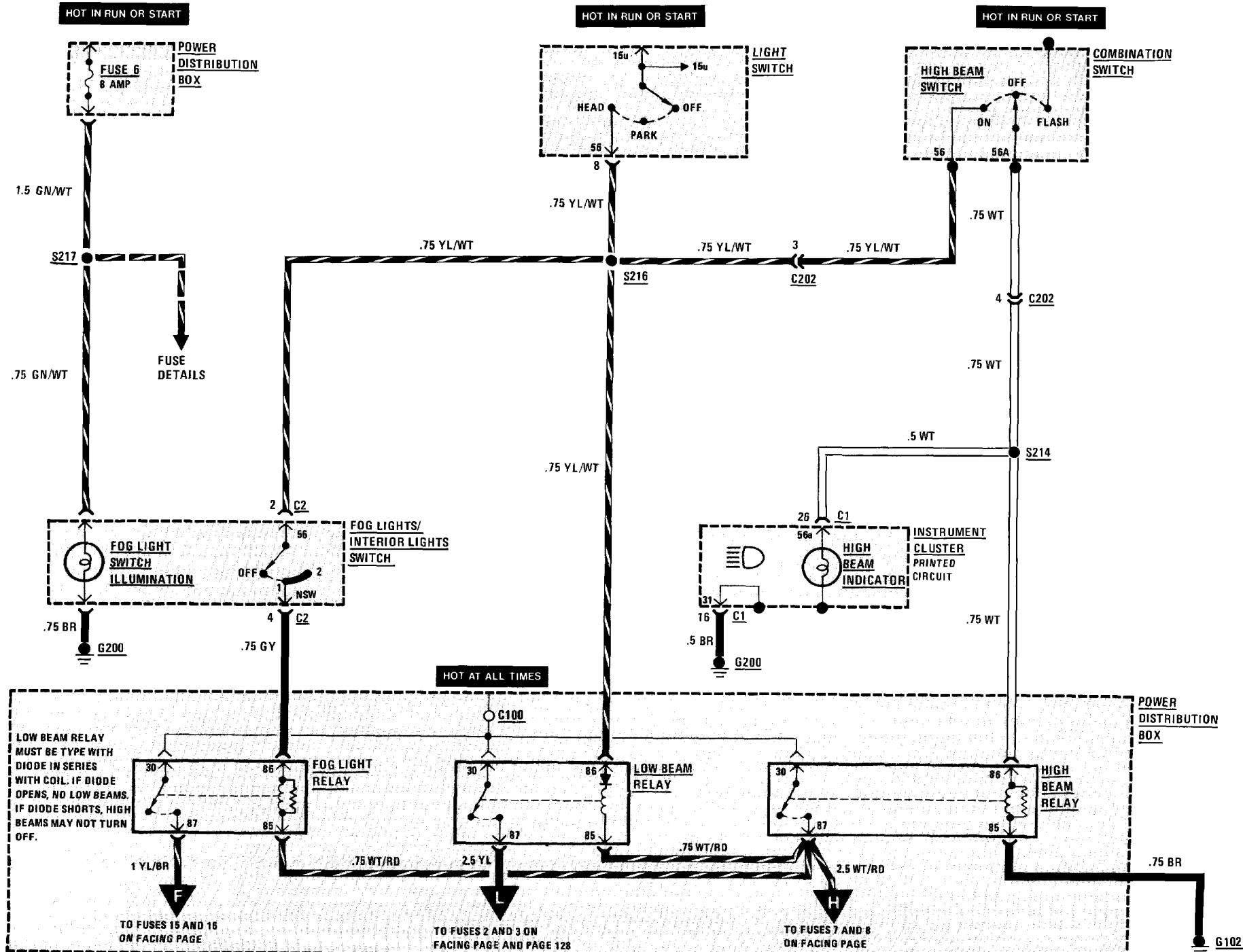


132 BRAKE LINING WARNING

(For Component Location See Page 202)

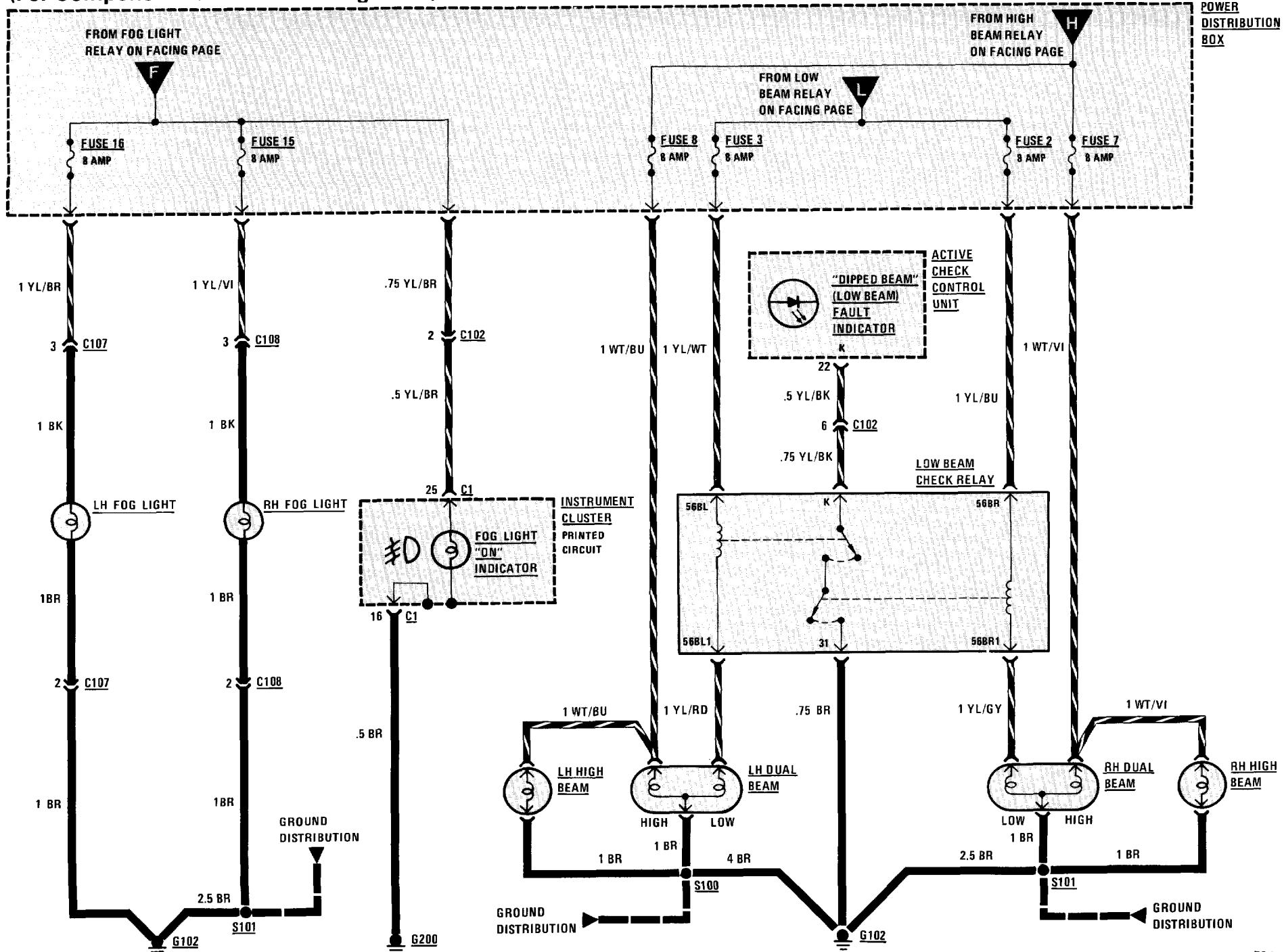


(For Component Location See Page 205)

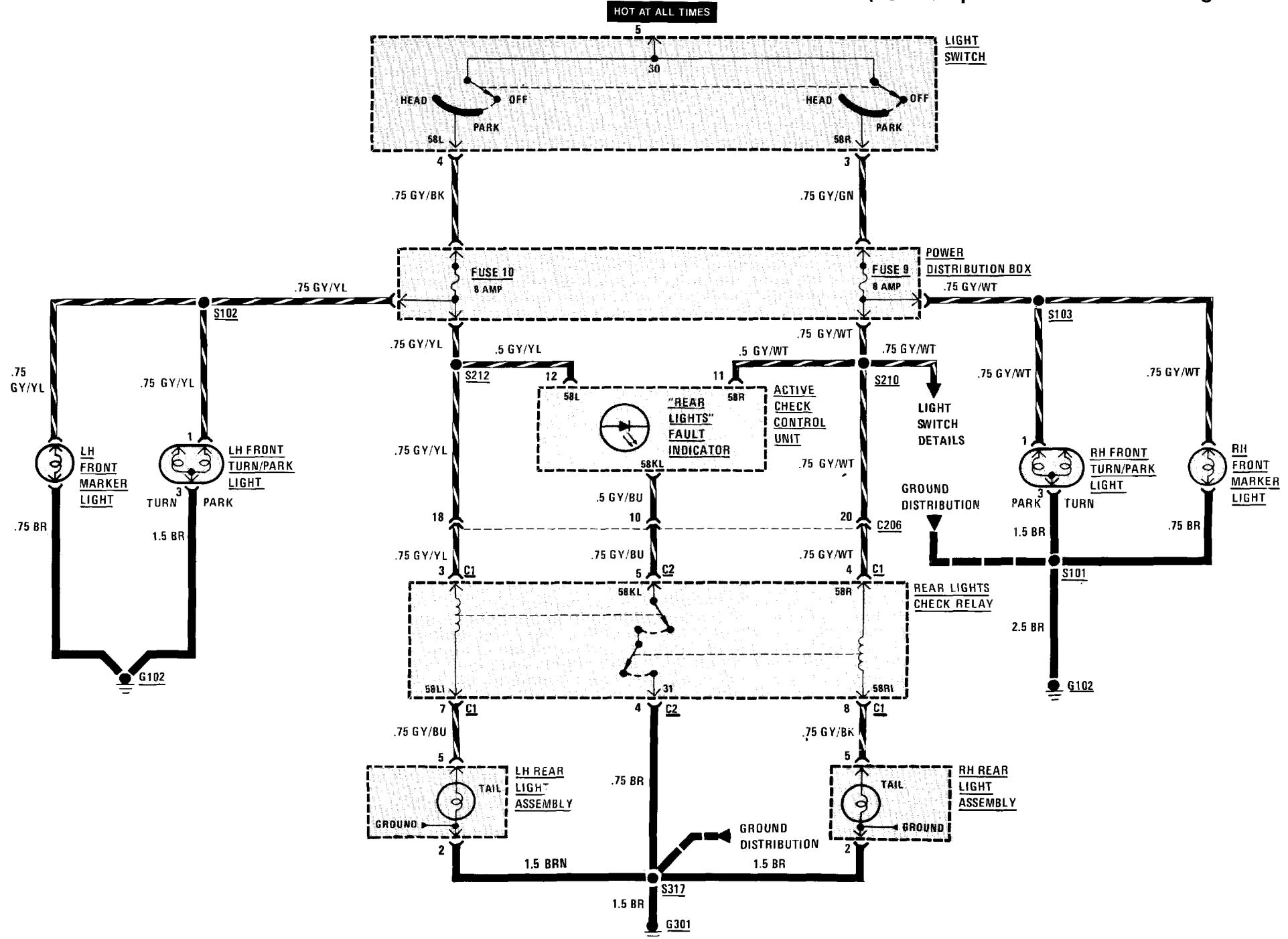


134 HEADLIGHTS (POWER)/FOG LIGHTS (POWER)

(For Component Locations See Page 205)

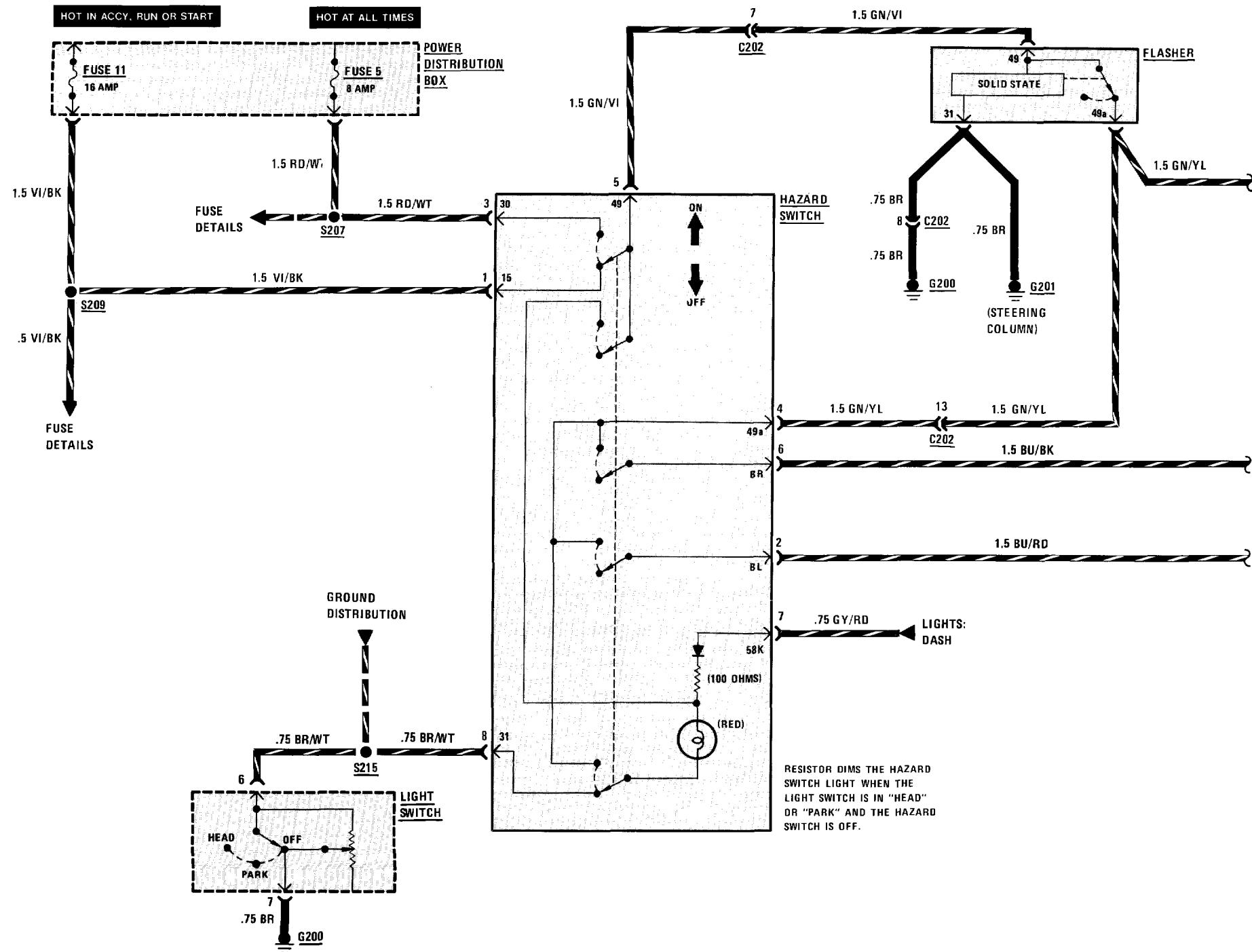


(For Component Location See Page 208)

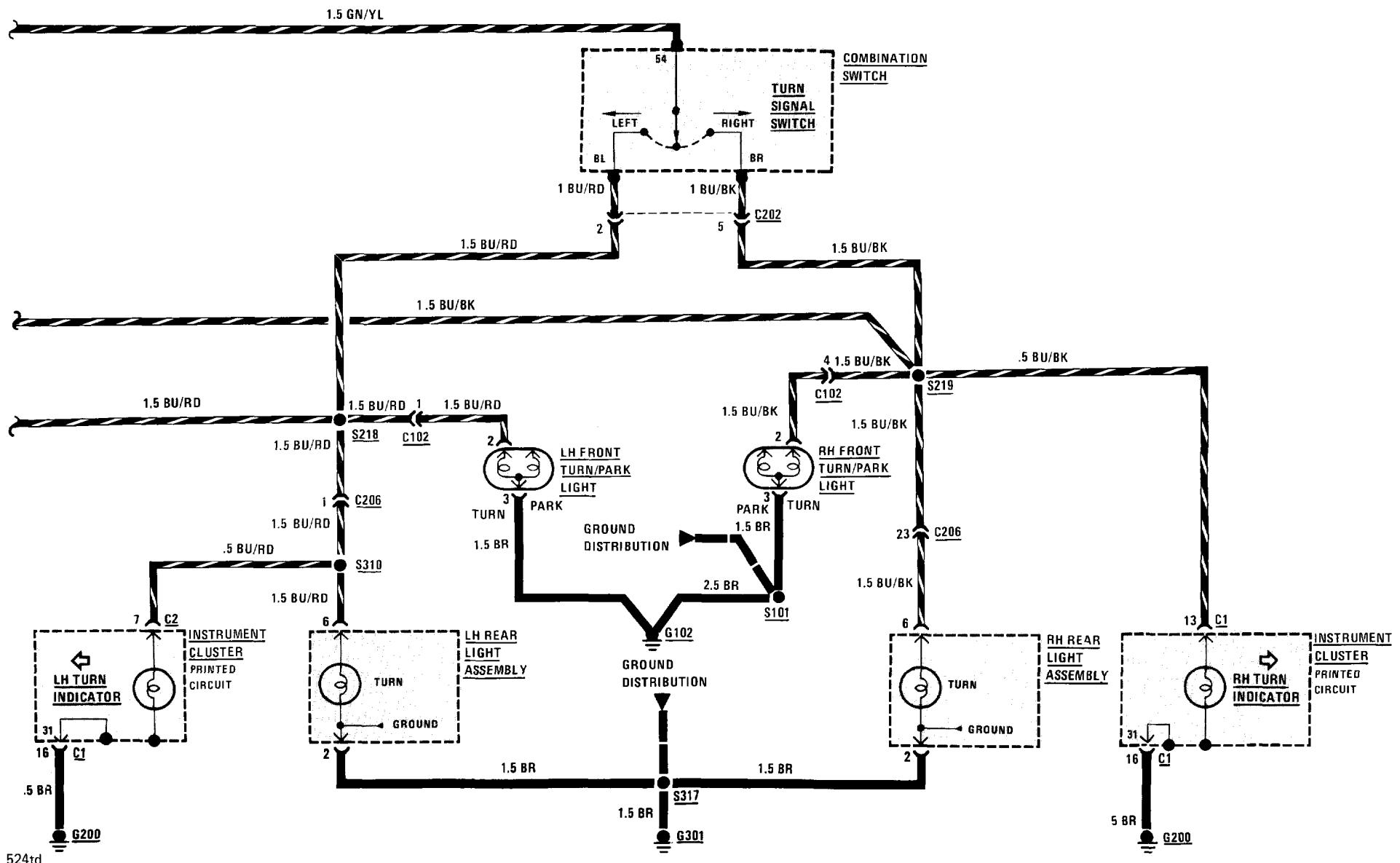


136 LIGHTS: TURN/HAZARD WARNING

(For Component Location See Page 209)

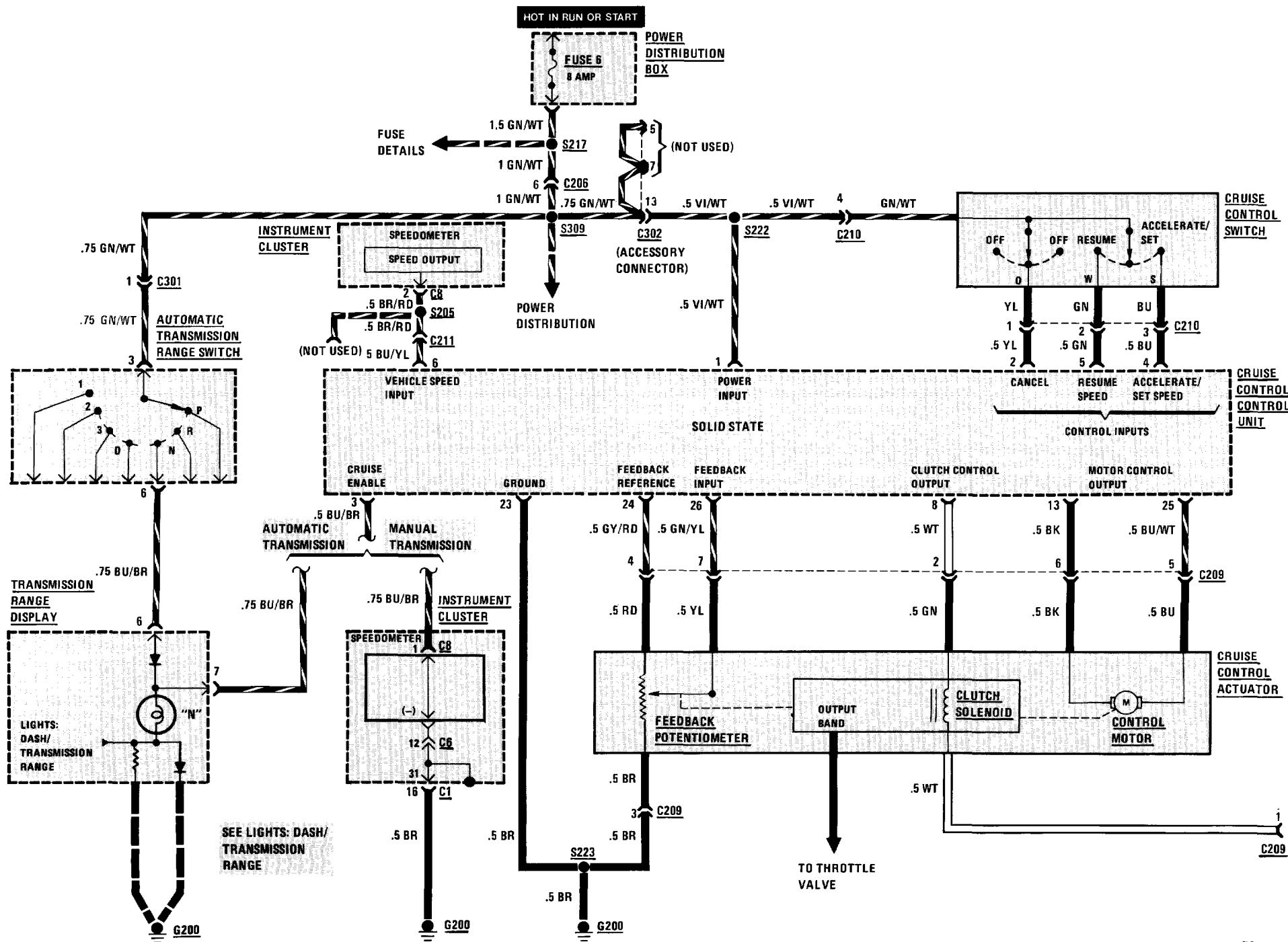


(For Component Location See Page 209)

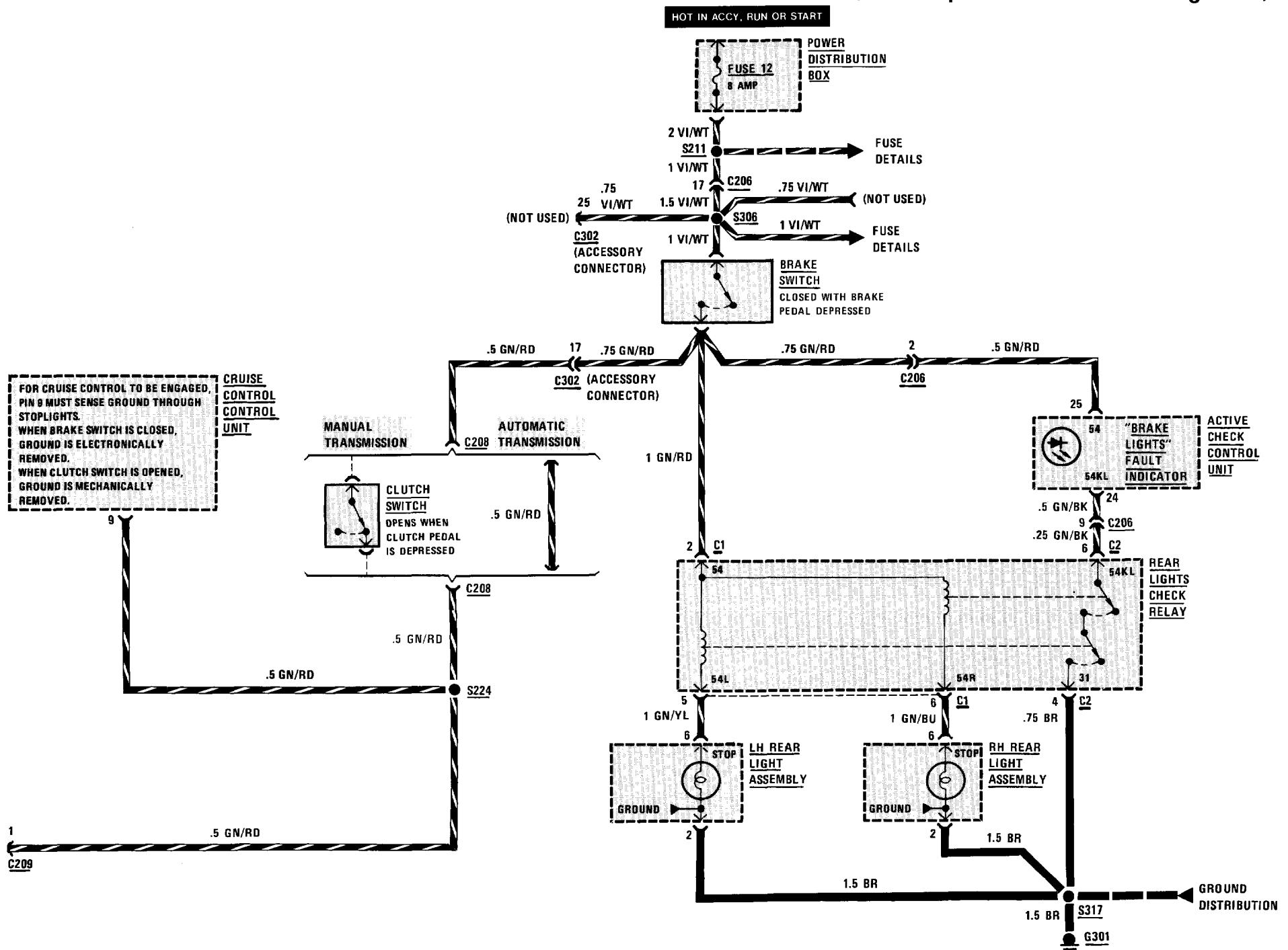


138 CRUISE CONTROL/STOPLIGHTS

(For Component Location See Page 203)

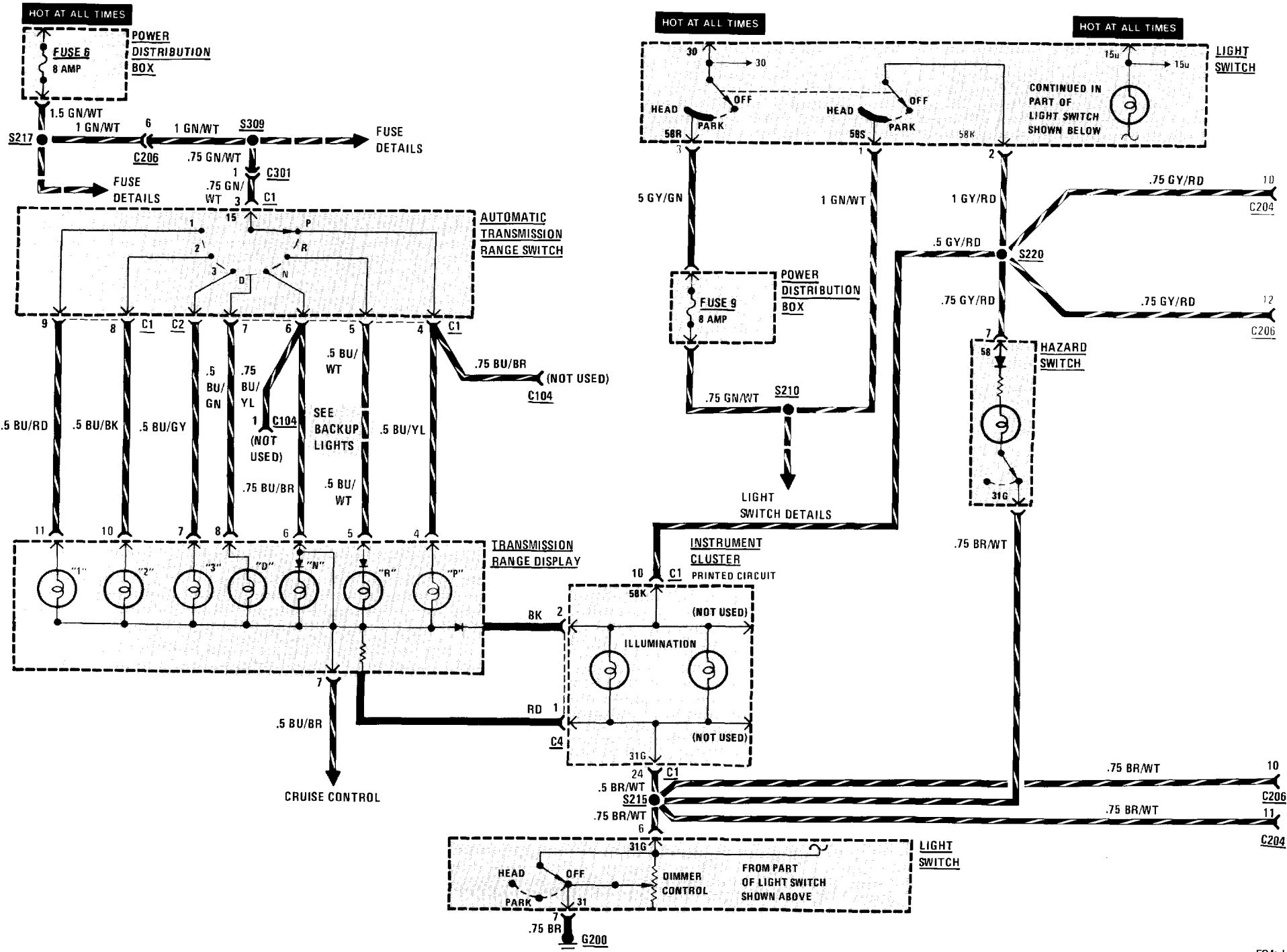


(For Component Location See Page 203)

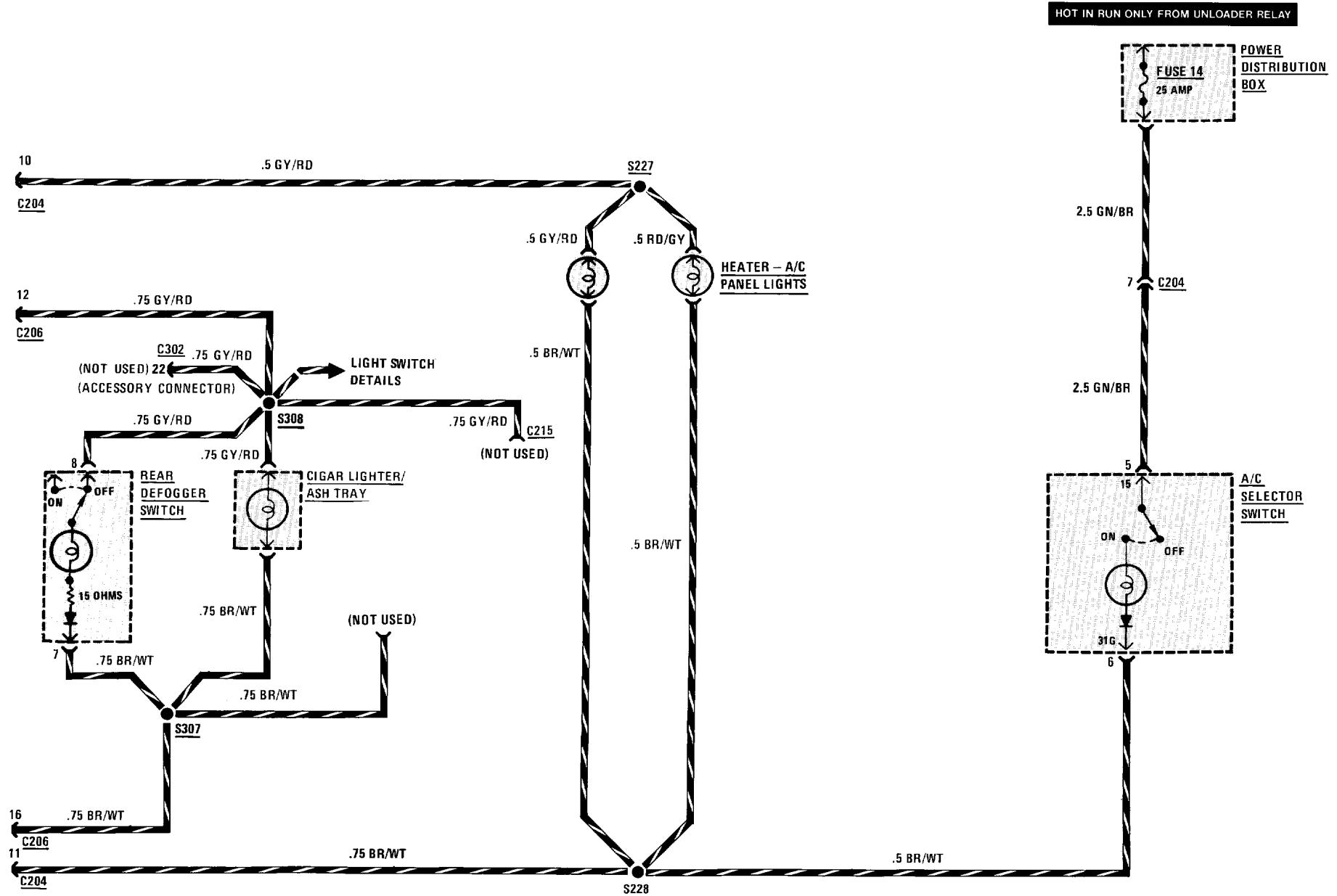


140 LIGHTS: DASH/TRANSMISSION RANGE

(For Component Location See Page 208)

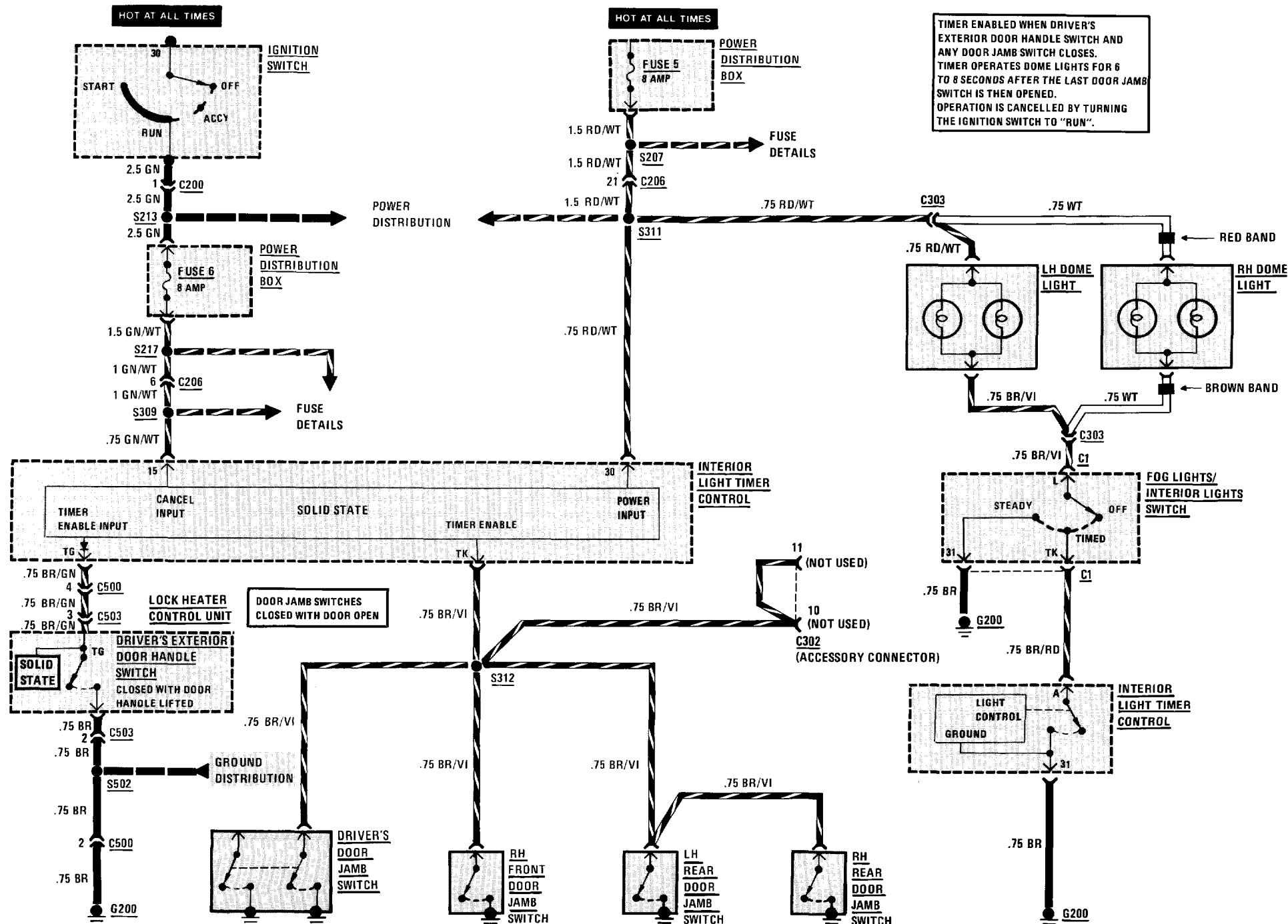


(For Component Location See Page 208)

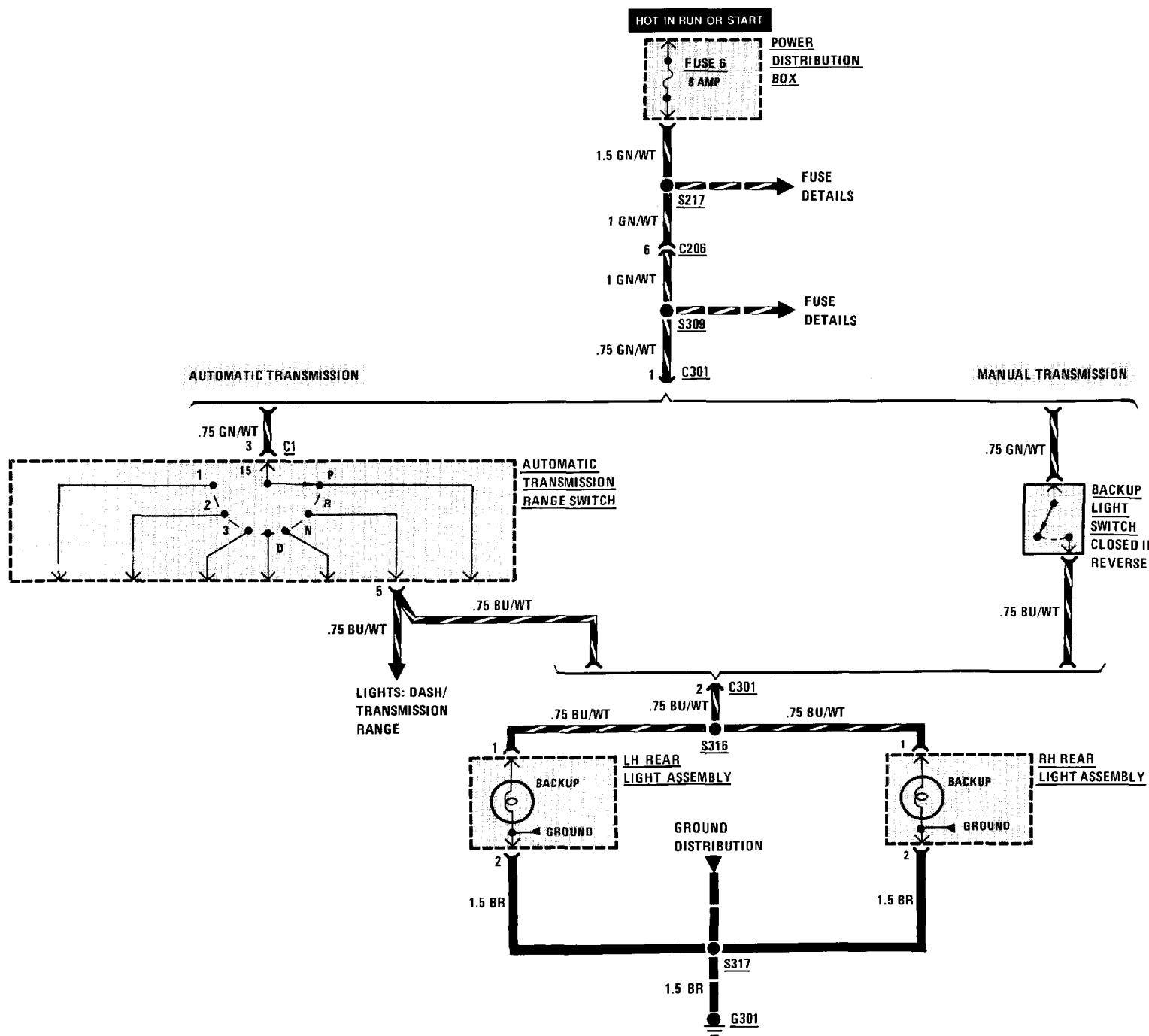


142 INTERIOR LIGHTS

(For Component Location See Page 206)

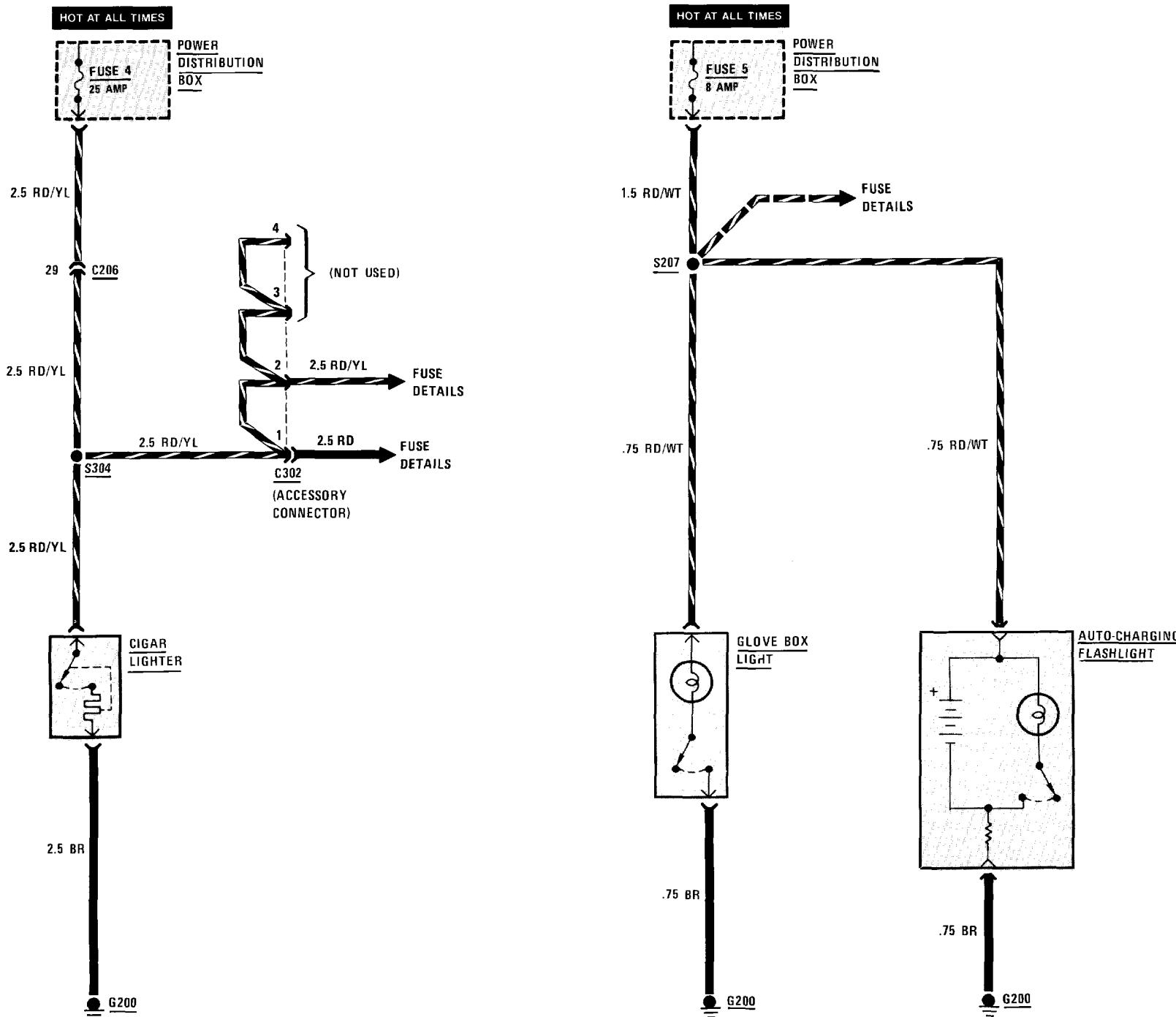


(For Component Locations See Page 202)

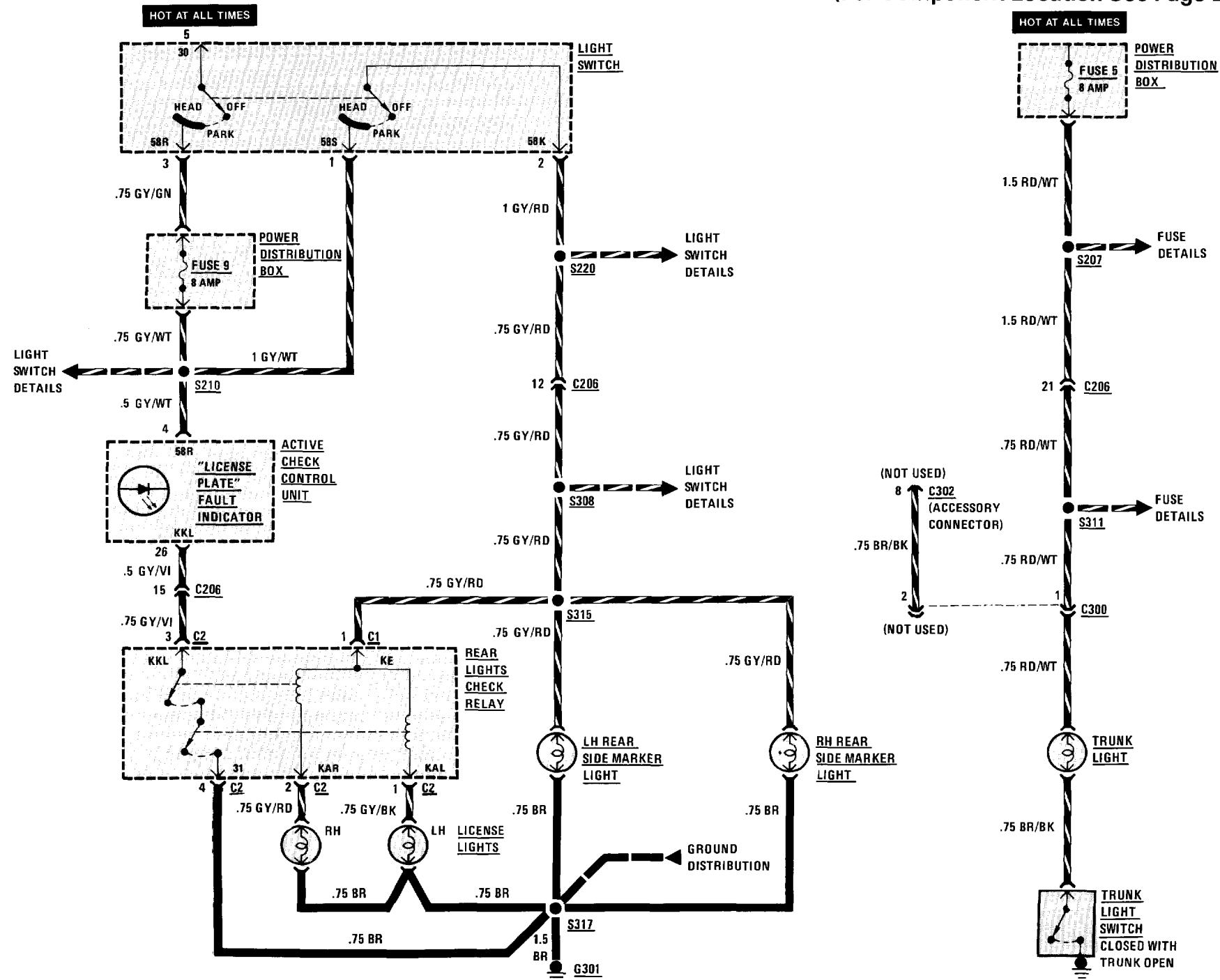


144 CIGAR LIGHTER/GLOVE BOX LIGHT/AUTO-CHARGING FLASHLIGHT

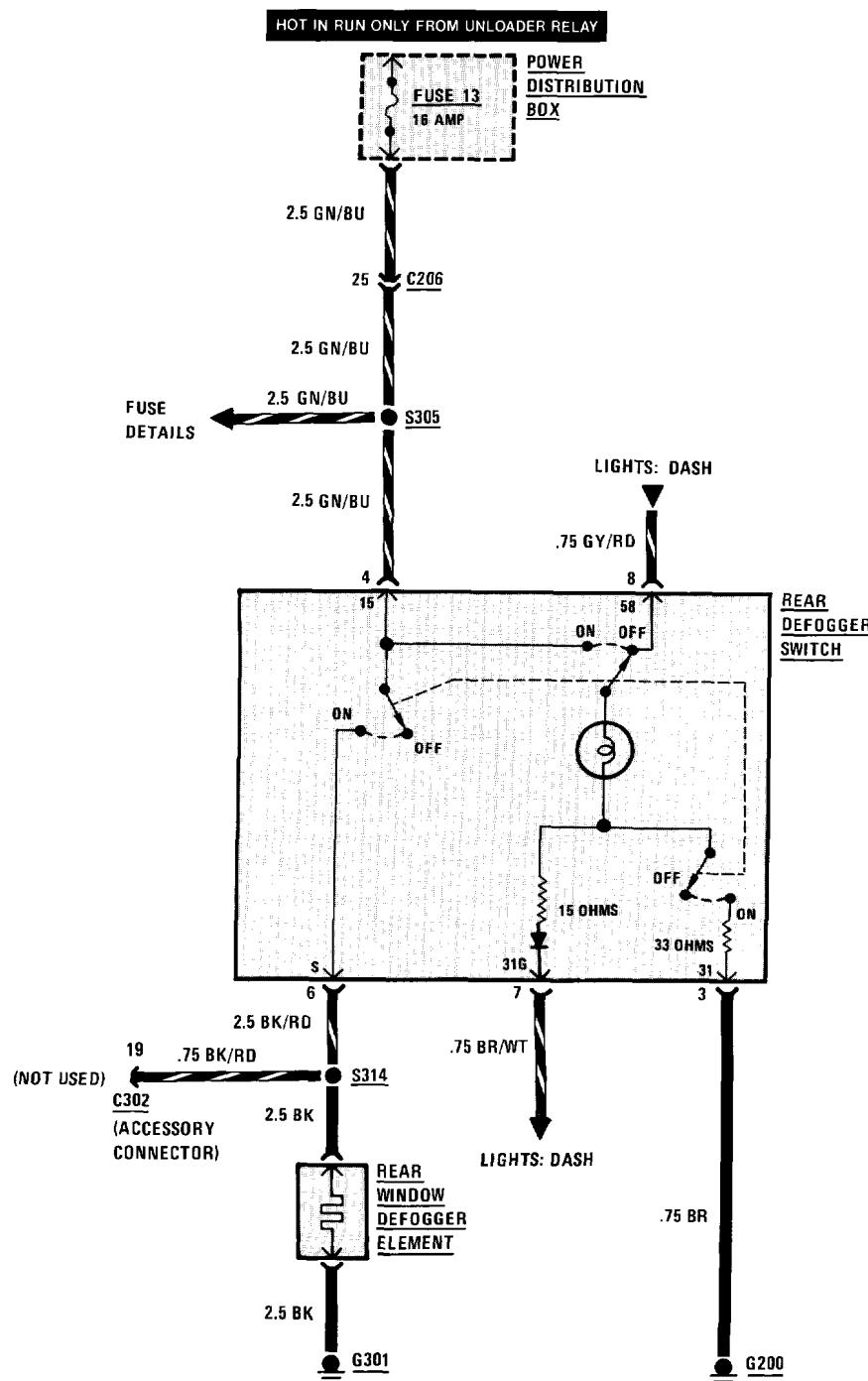
(For Component Locations See Page 203)



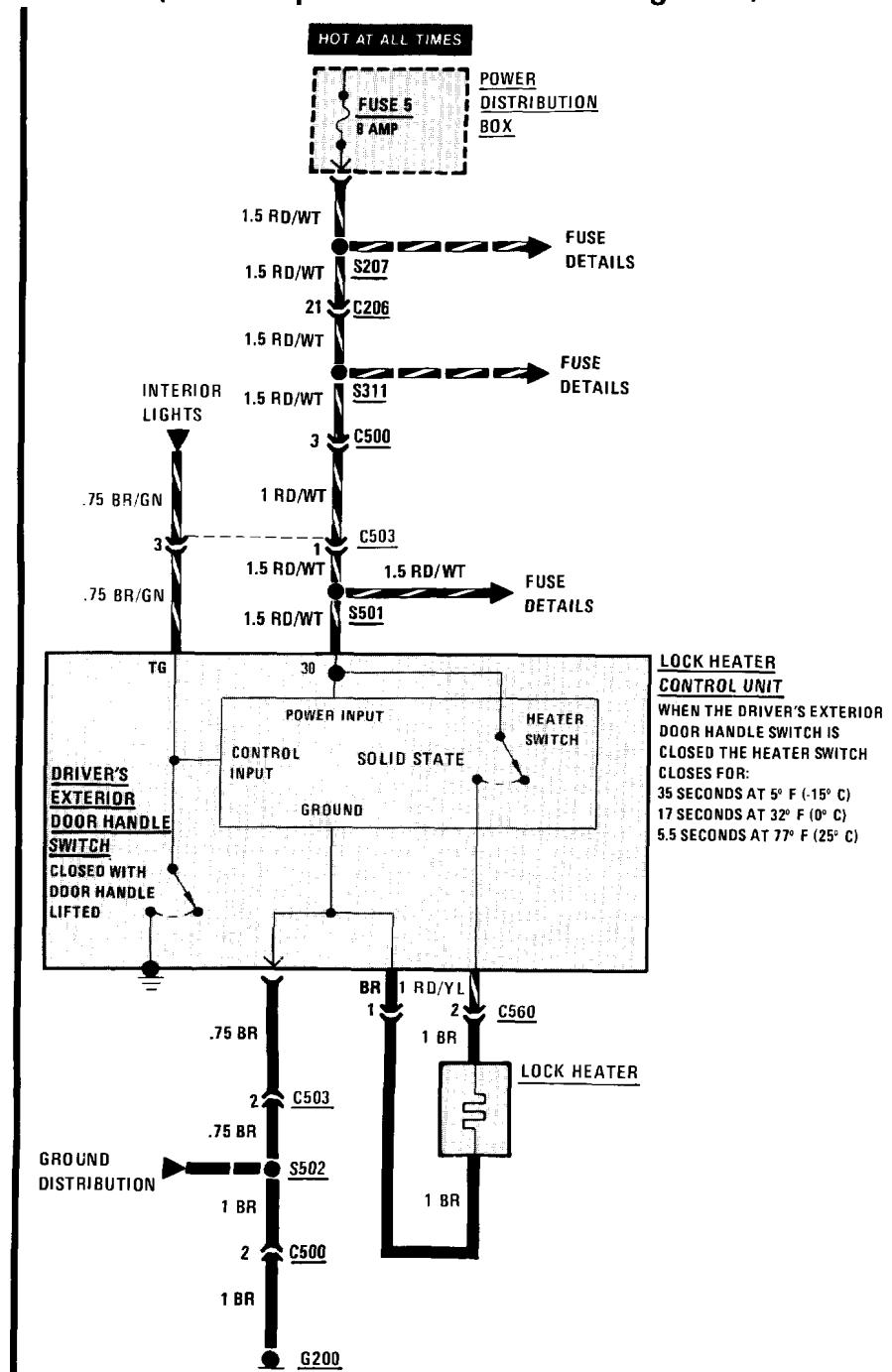
(For Component Location See Page 208)



(For Component Location See Page 211)

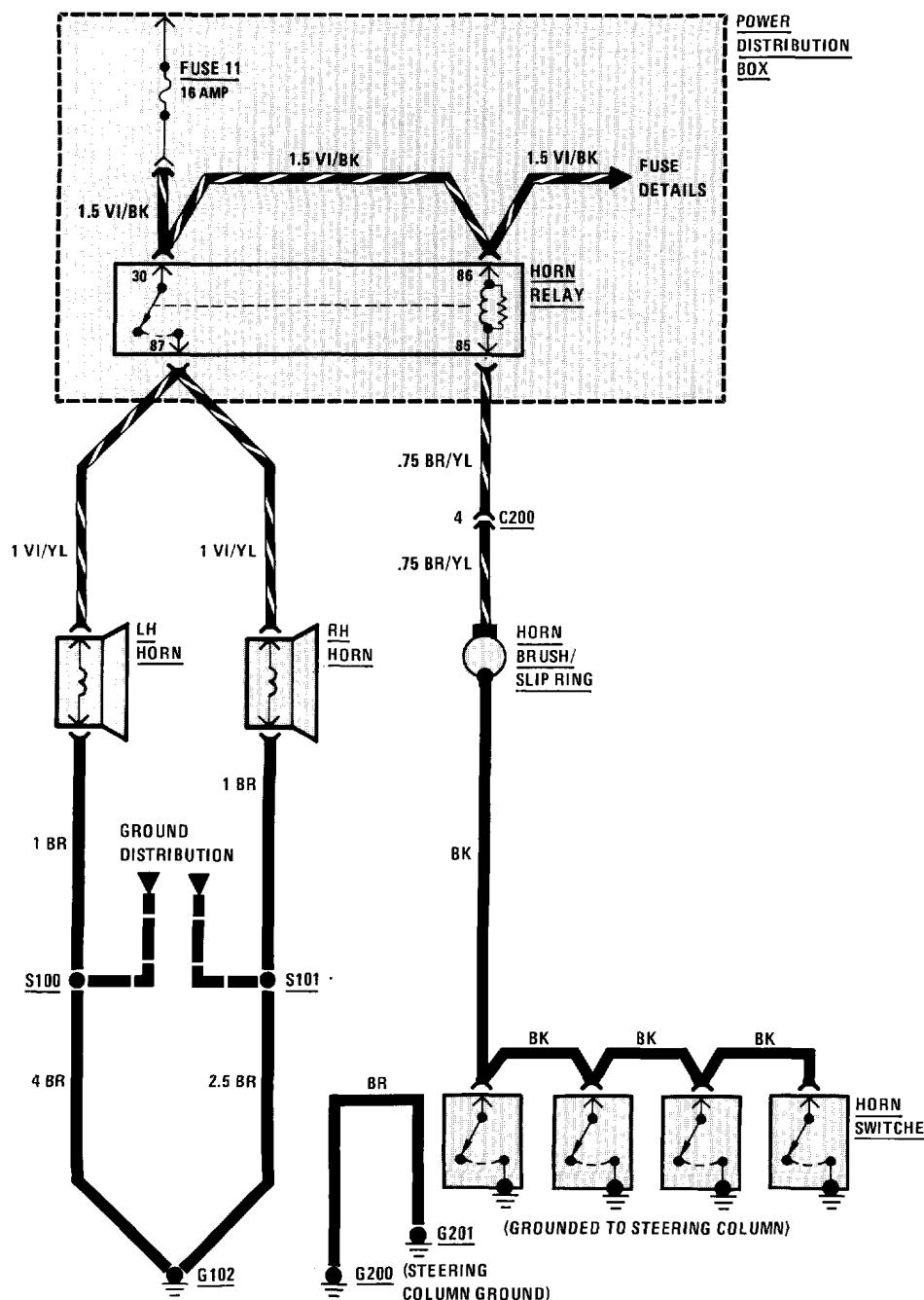


(For Component Location See Page 211)



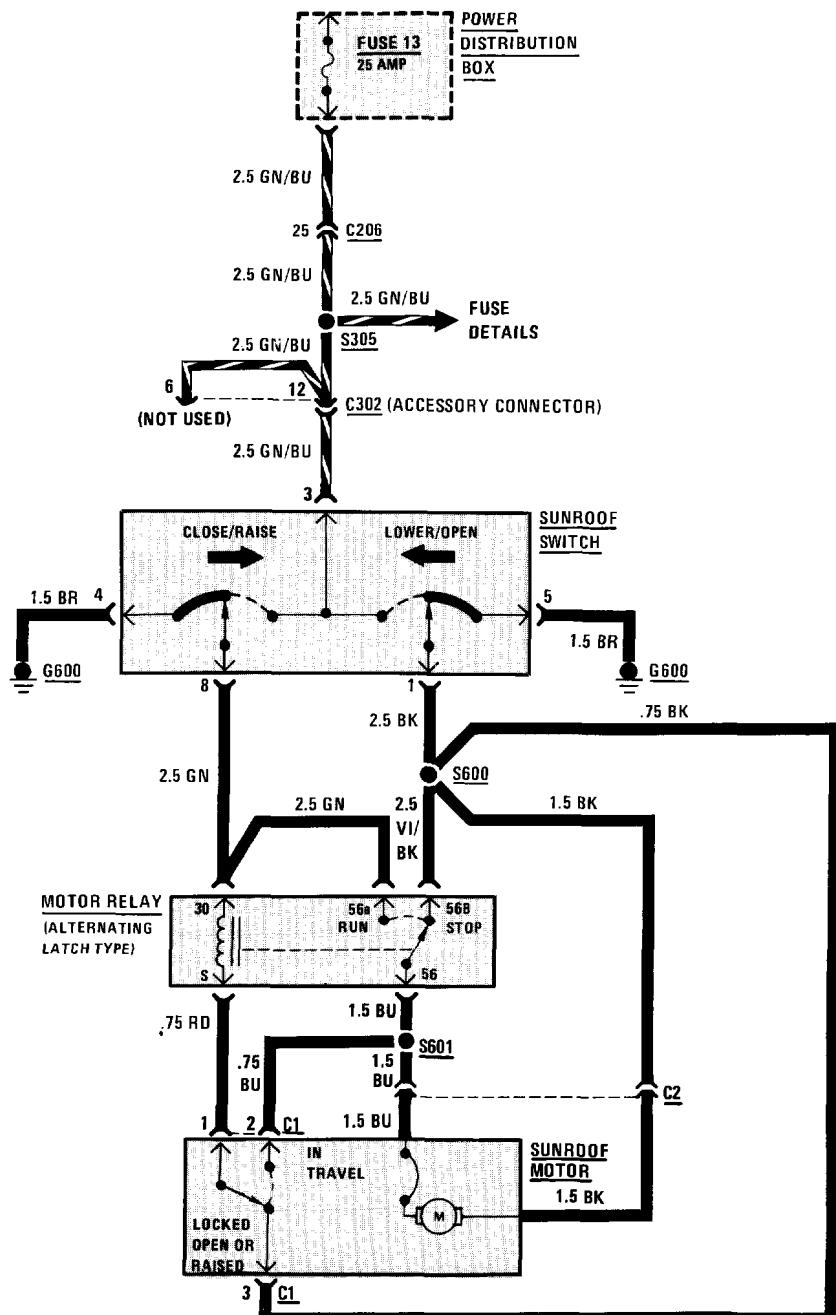
(For Component Locations See Page 206)

HOT IN ACCY, RUN OR START



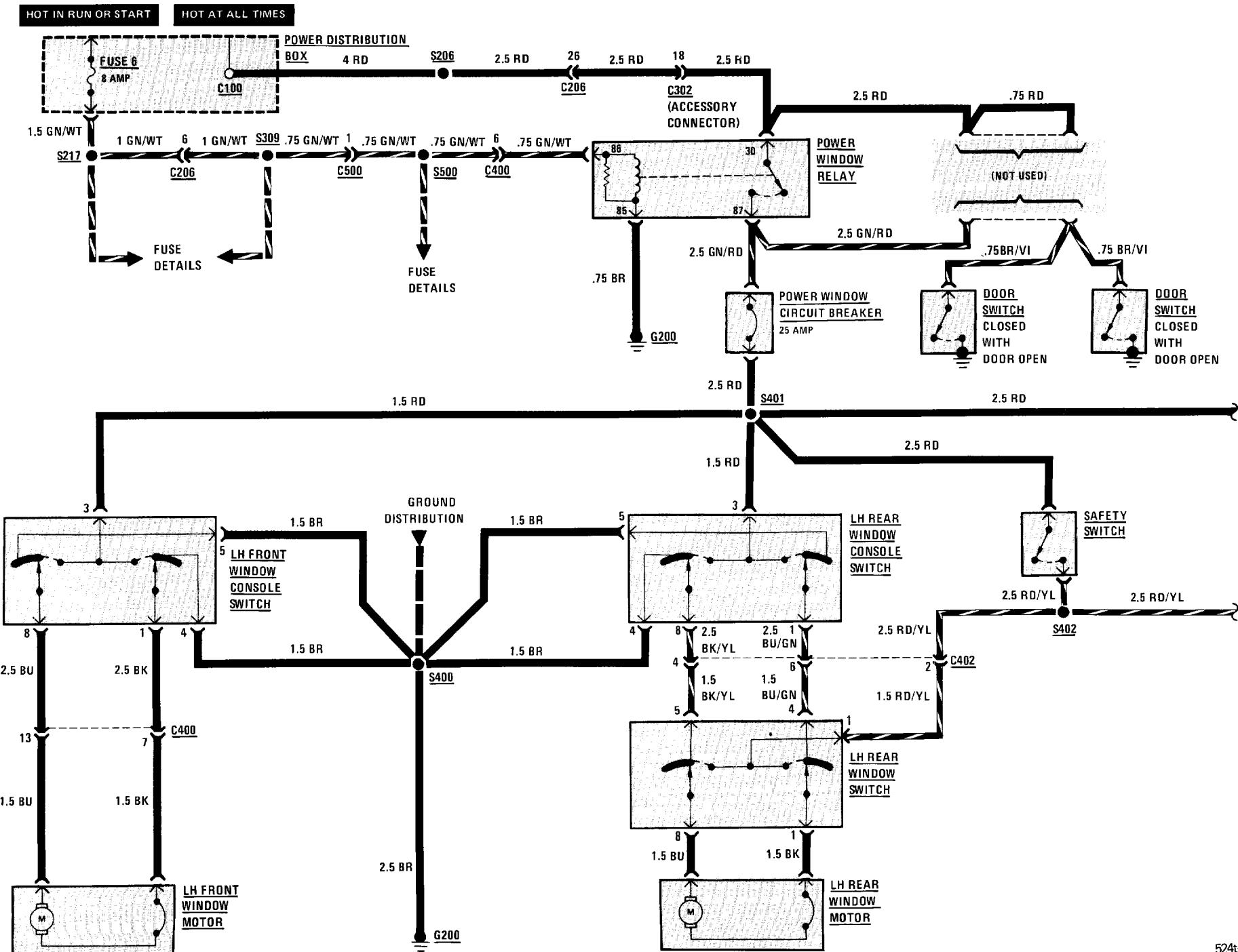
(For Component Locations See Page 206)

HOT IN RUN ONLY FROM UNLOADER RELAY

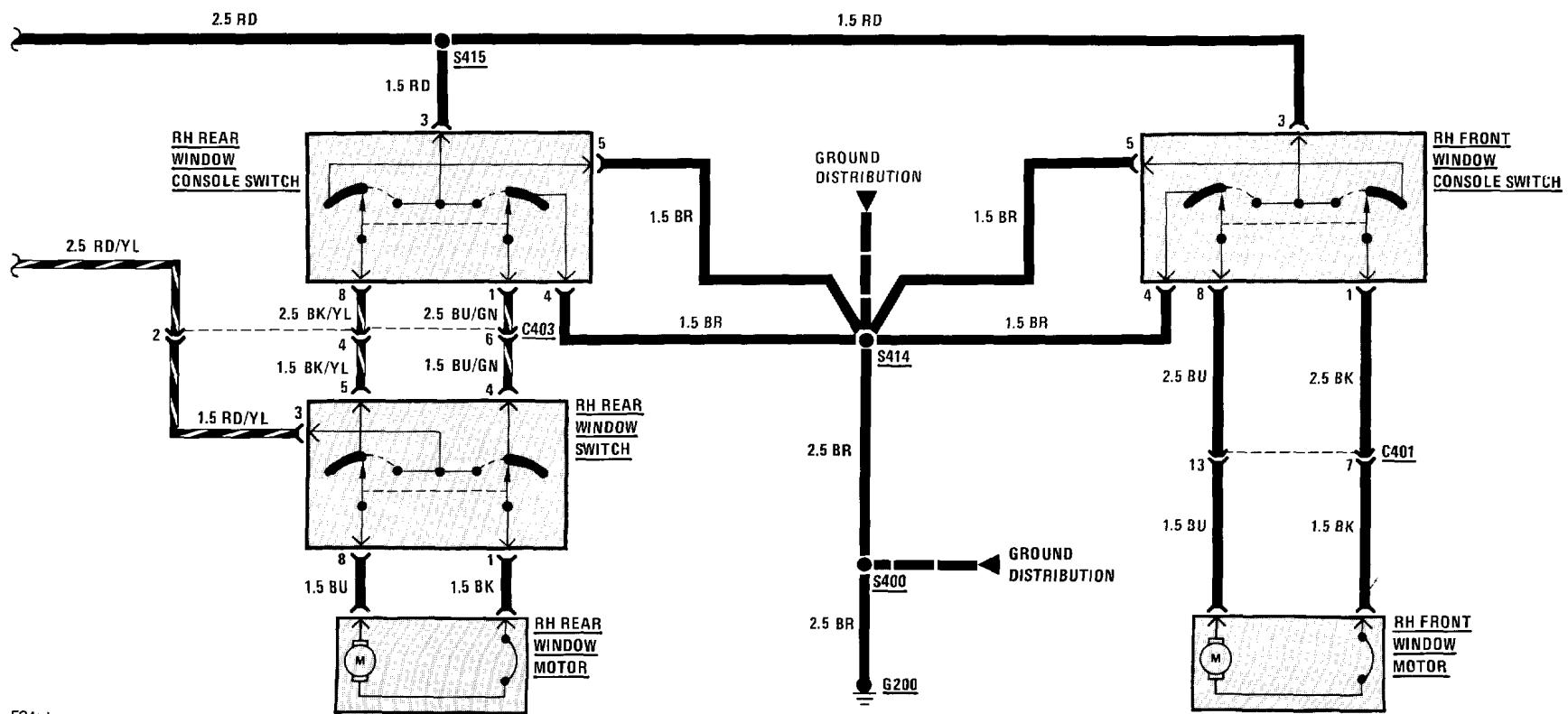


148 POWER WINDOWS

(For Component Location See Page 210)

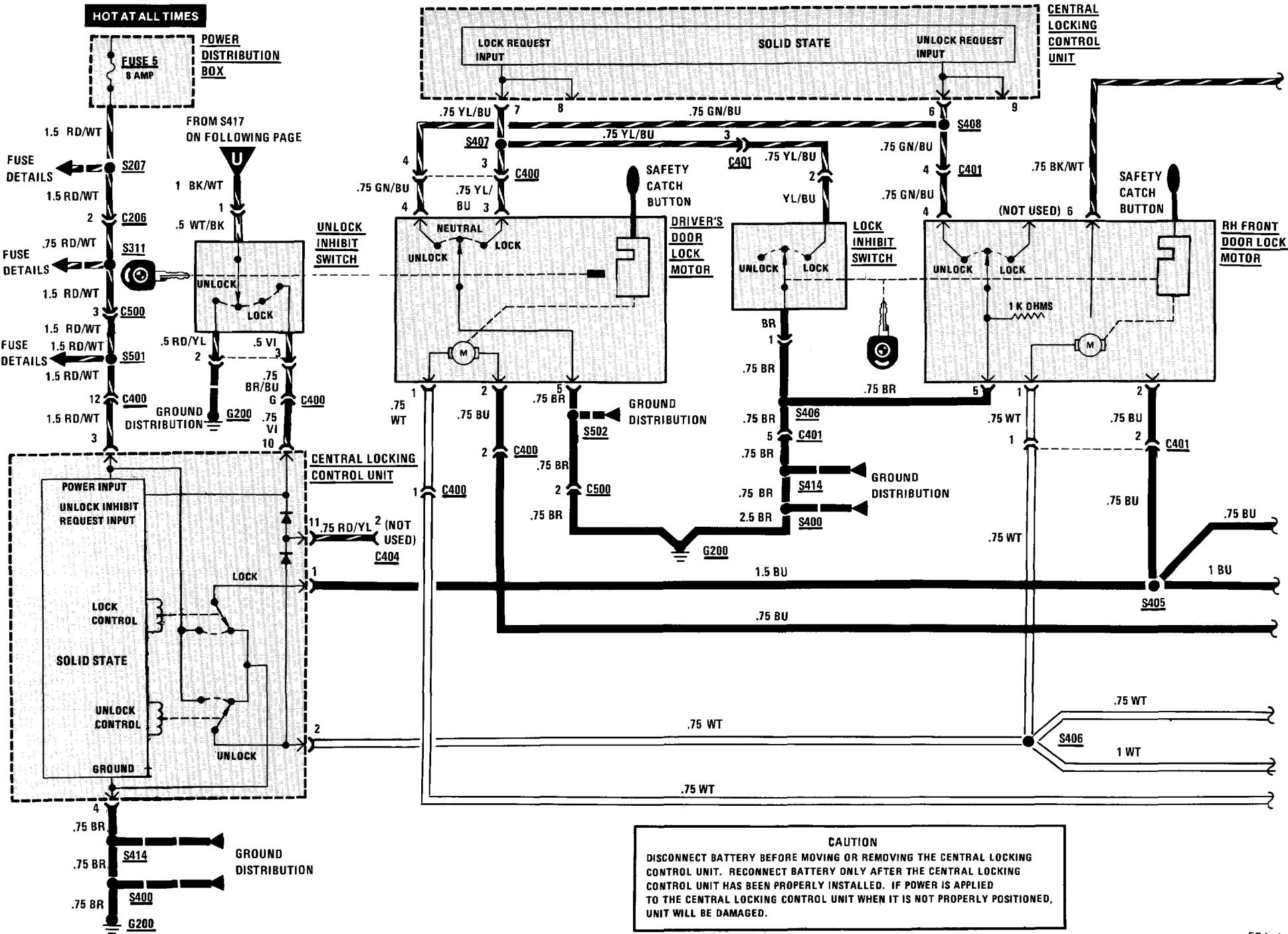


(For Component Location See Page 210)



150 CENTRAL LOCKING

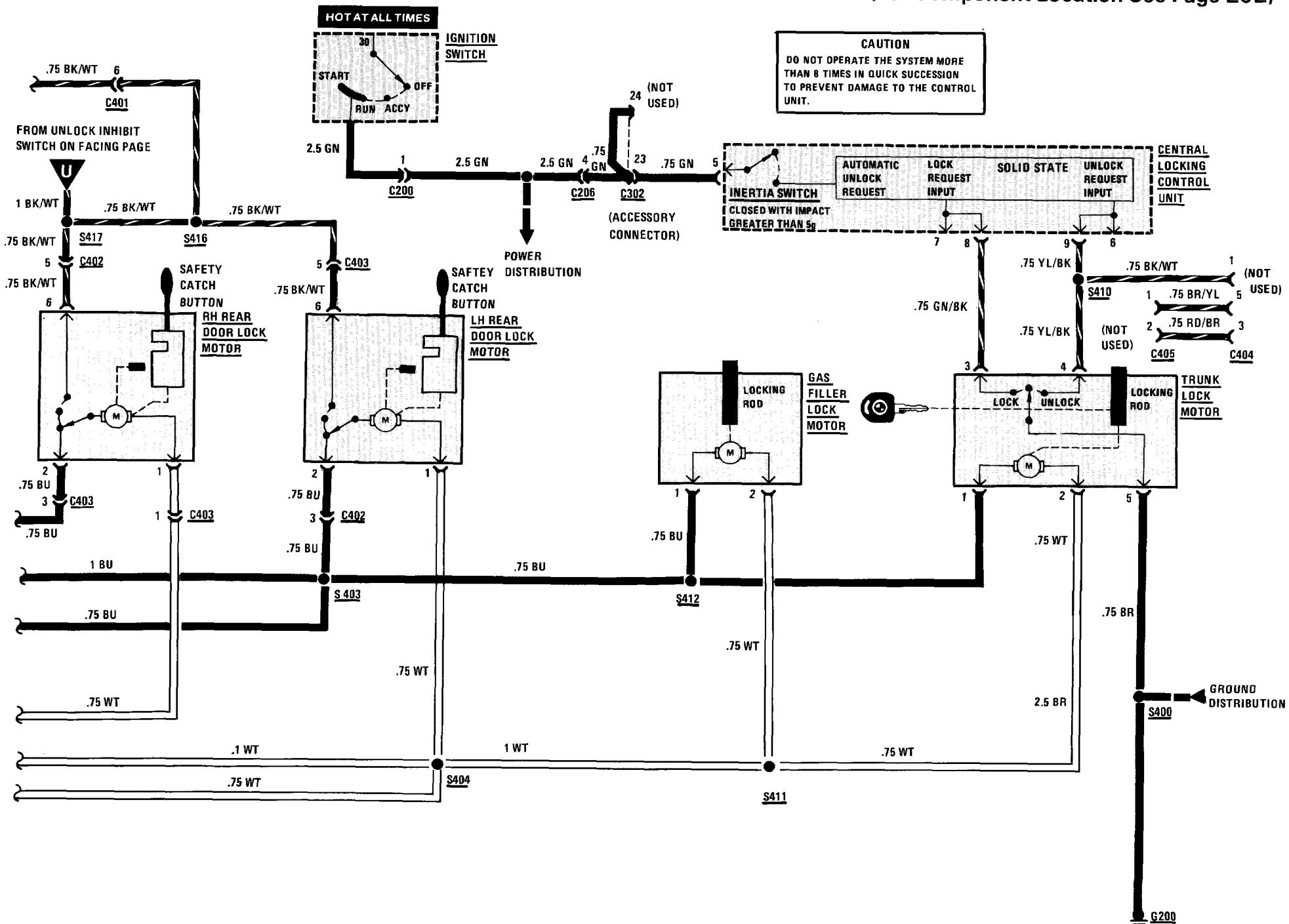
(For Component Location See Page 202)



CAUTION

DISCONNECT BATTERY BEFORE MOVING OR REMOVING THE CENTRAL LOCKING CONTROL UNIT. RECONNECT BATTERY ONLY AFTER THE CENTRAL LOCKING CONTROL UNIT HAS BEEN PROPERLY INSTALLED. IF POWER IS APPLIED TO THE CENTRAL LOCKING CONTROL UNIT WHEN IT IS NOT PROPERLY POSITIONED, UNIT WILL BE DAMAGED.

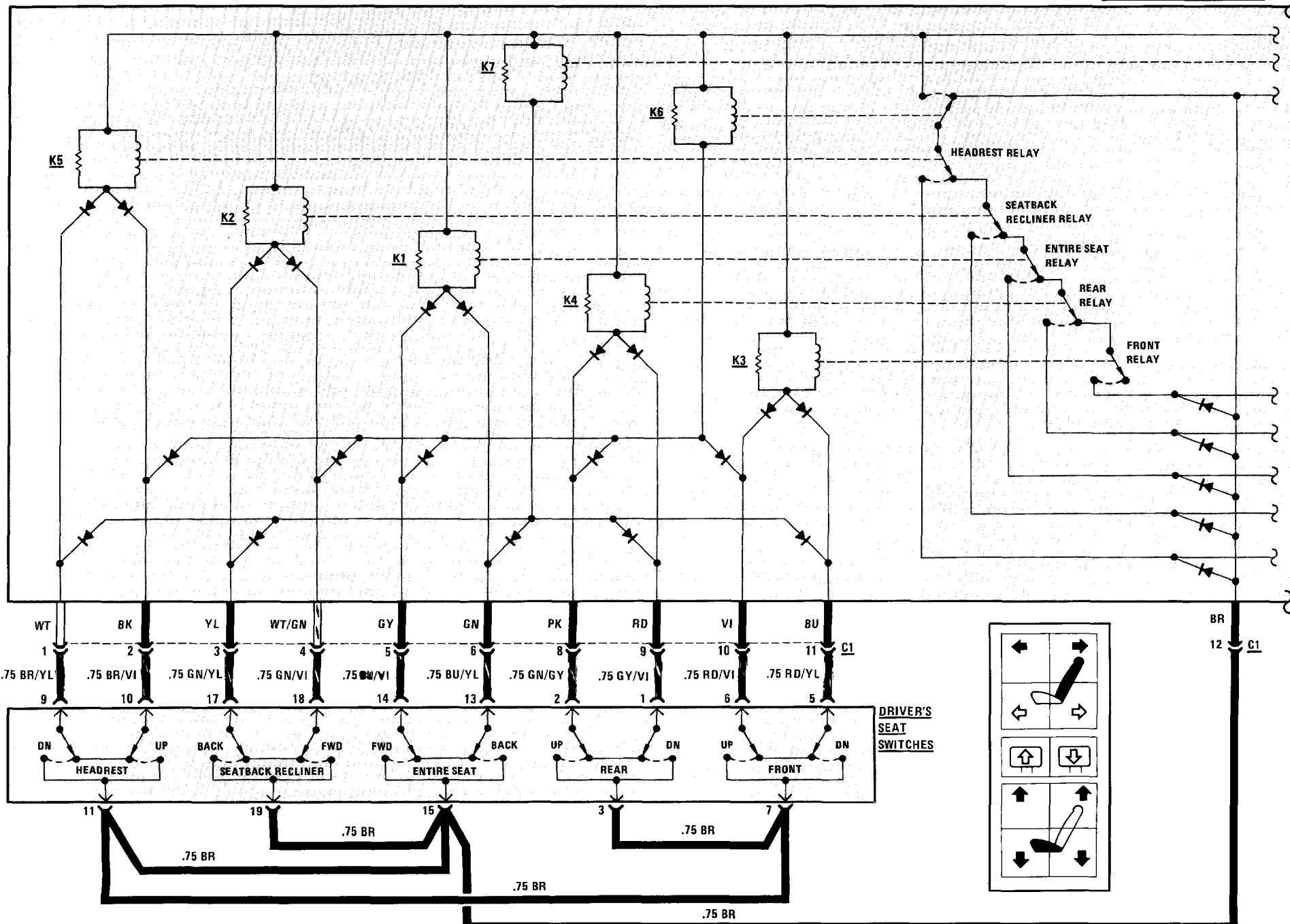
(For Component Location See Page 202)



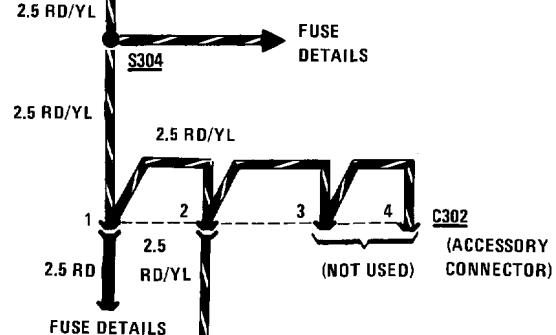
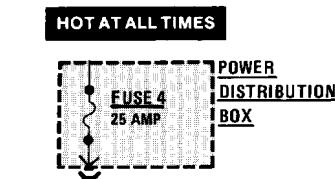
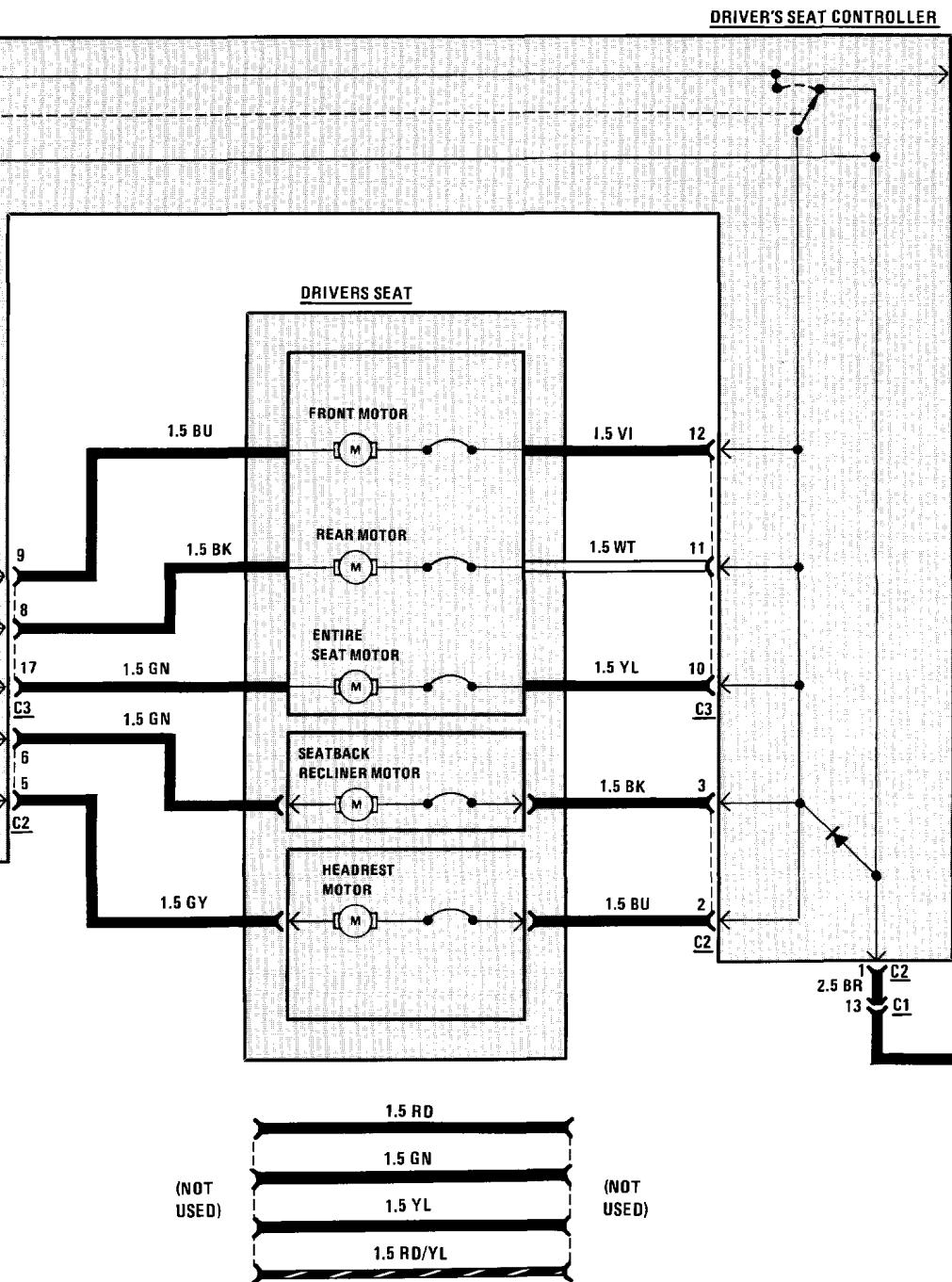
152 POWER SEATS

(For Component Location See Page 210)

DRIVER'S SEAT CONTROLLER



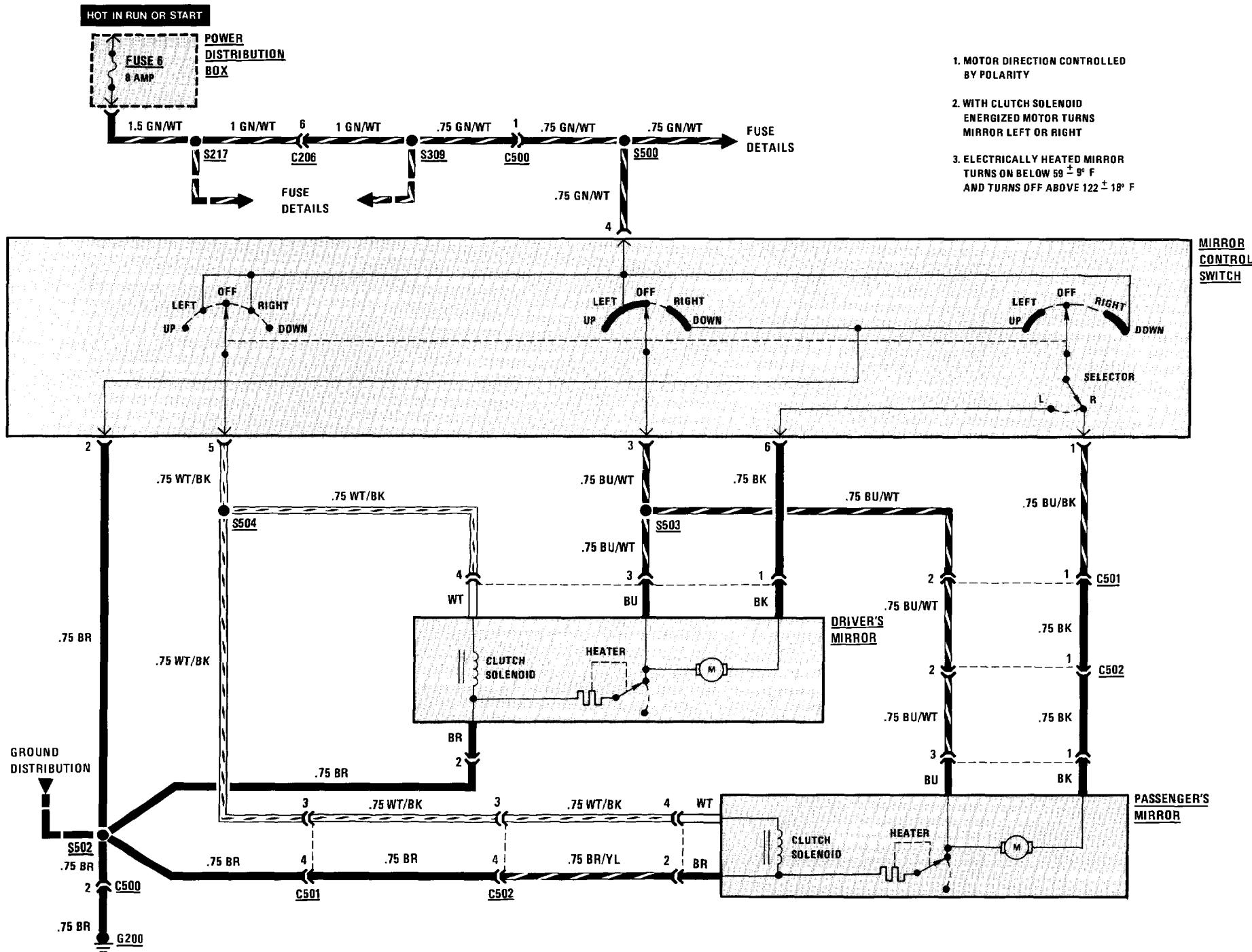
(For Component Location See Page 210)



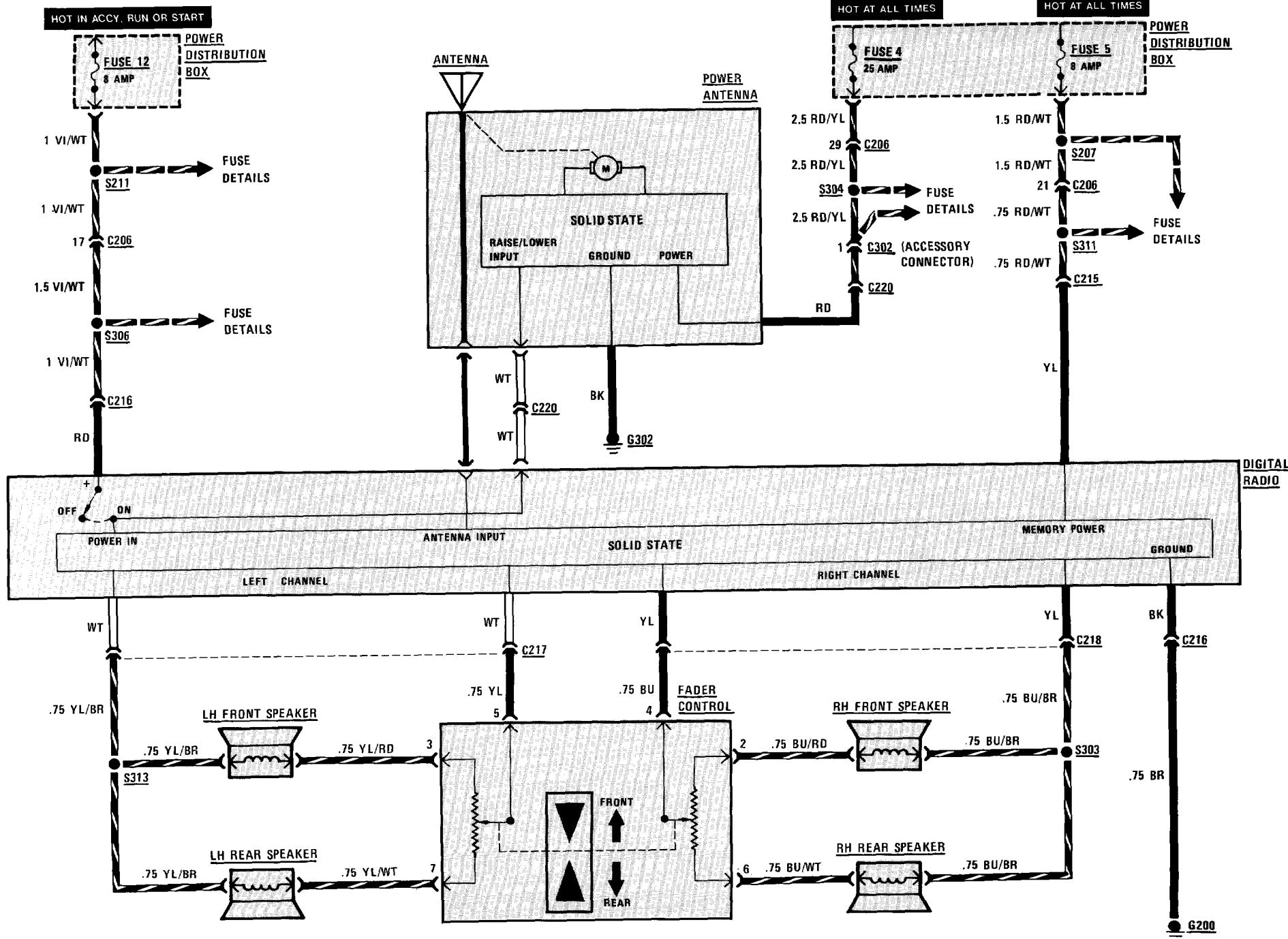
PASSENGER'S POWER SEAT OPERATION IS IDENTICAL TO THE DRIVER'S. FOR DETAILS, USE THE DRIVER'S CIRCUIT

154 POWER MIRRORS

(For Component Location See Page 210)

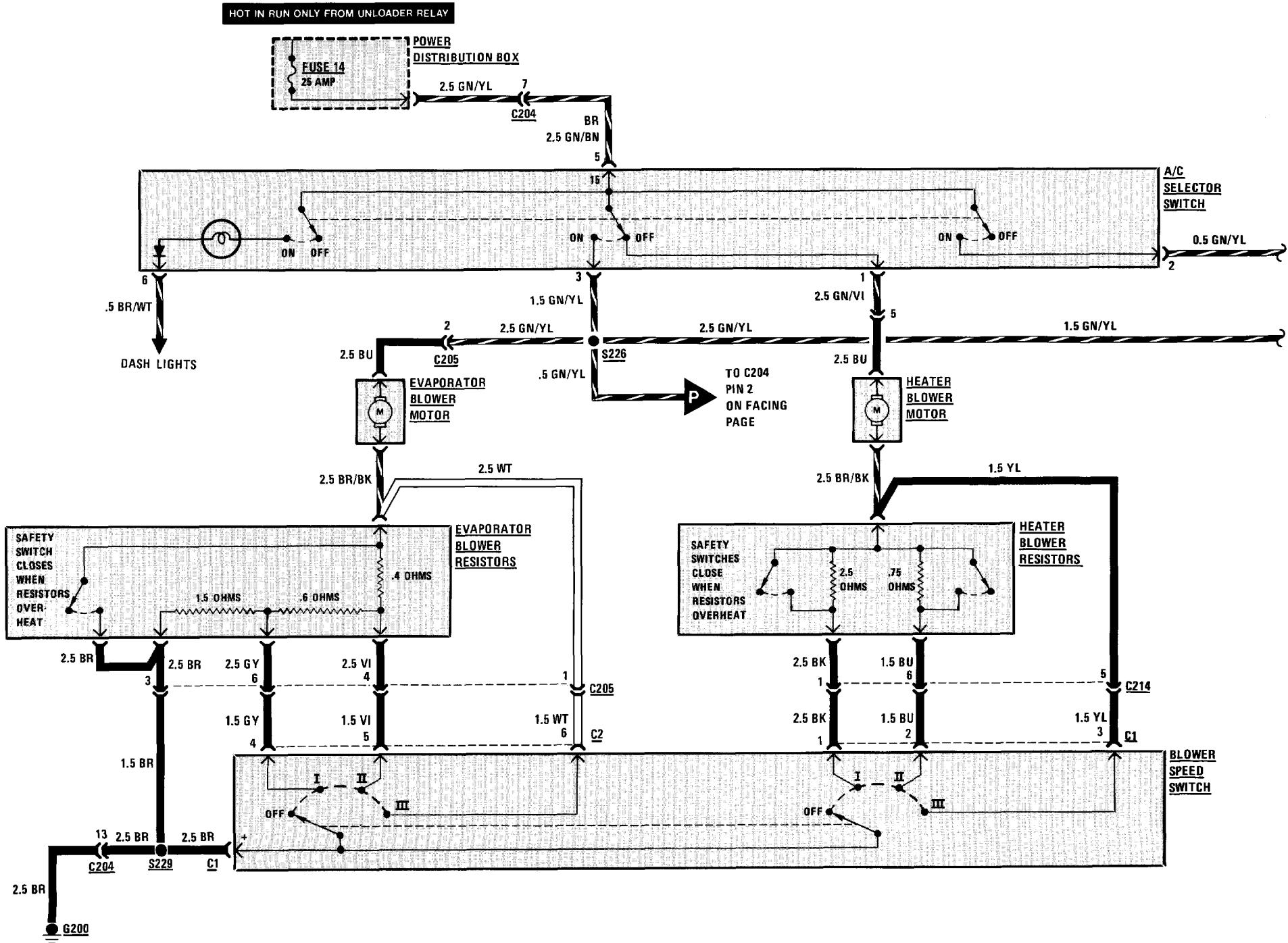


(For Component Locations See Page 211)

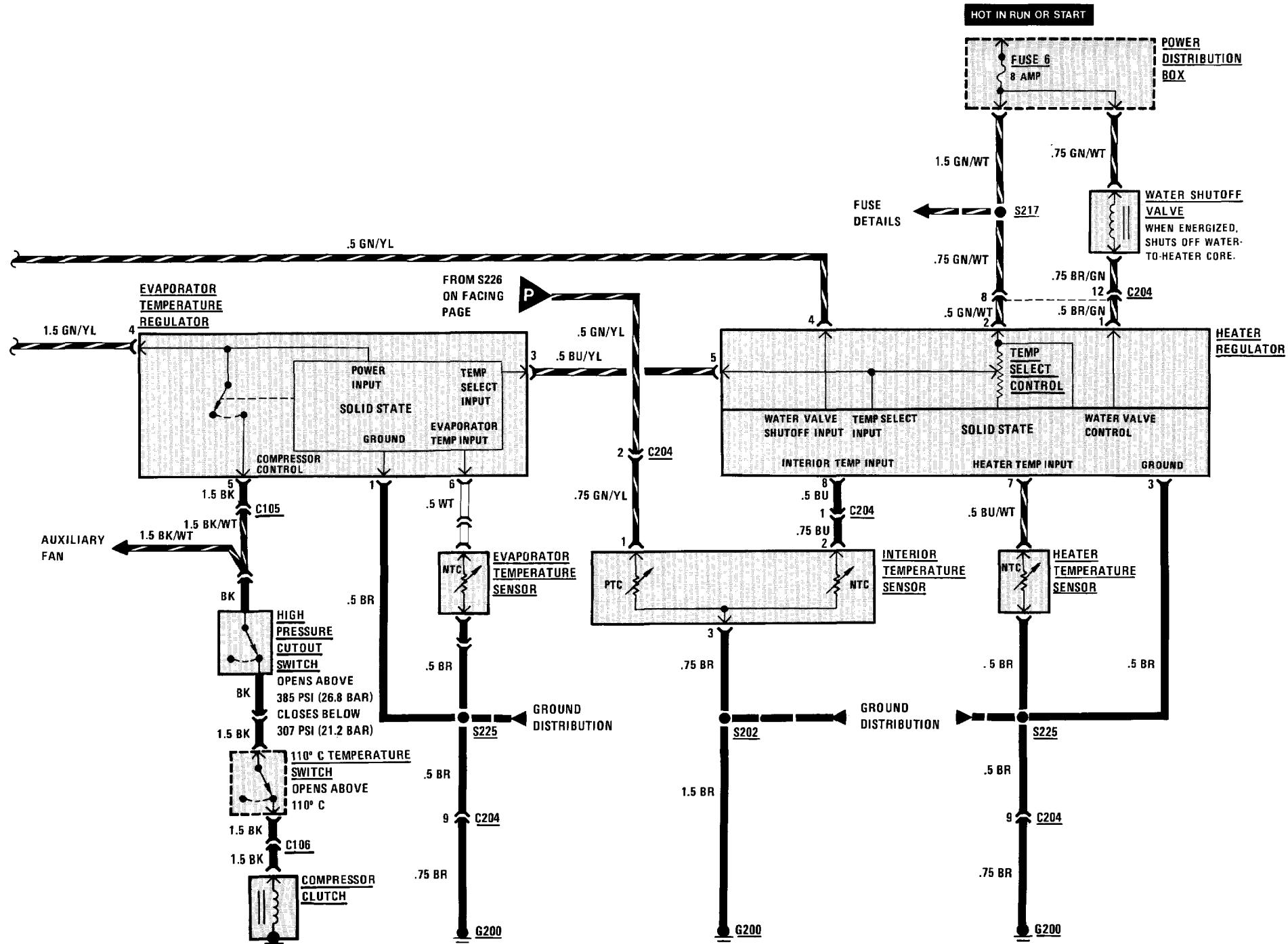


156 HEATER/AIR CONDITIONING (BLOWER)

(For Component Locations See Page 205)

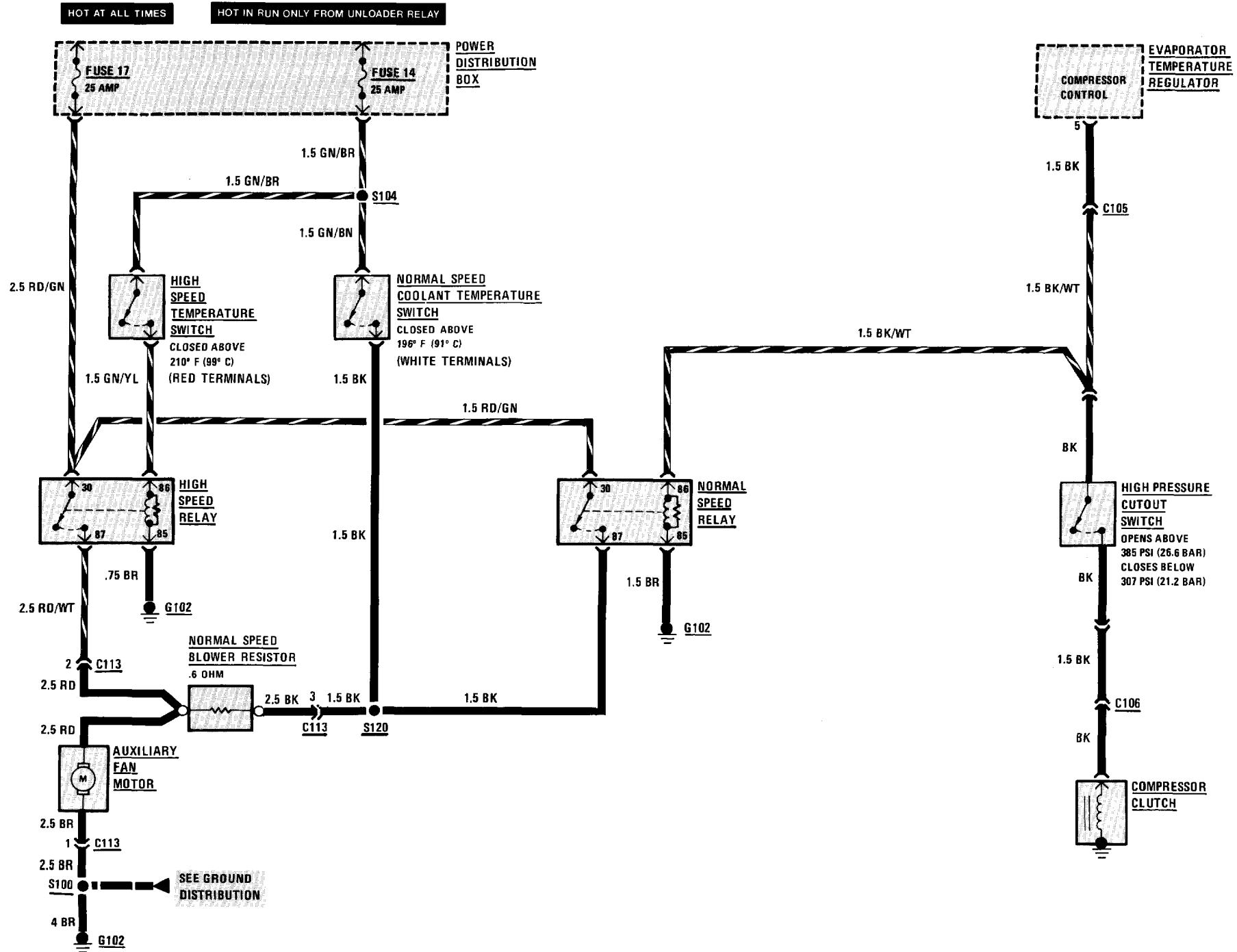


(For Component Location See Page 205)

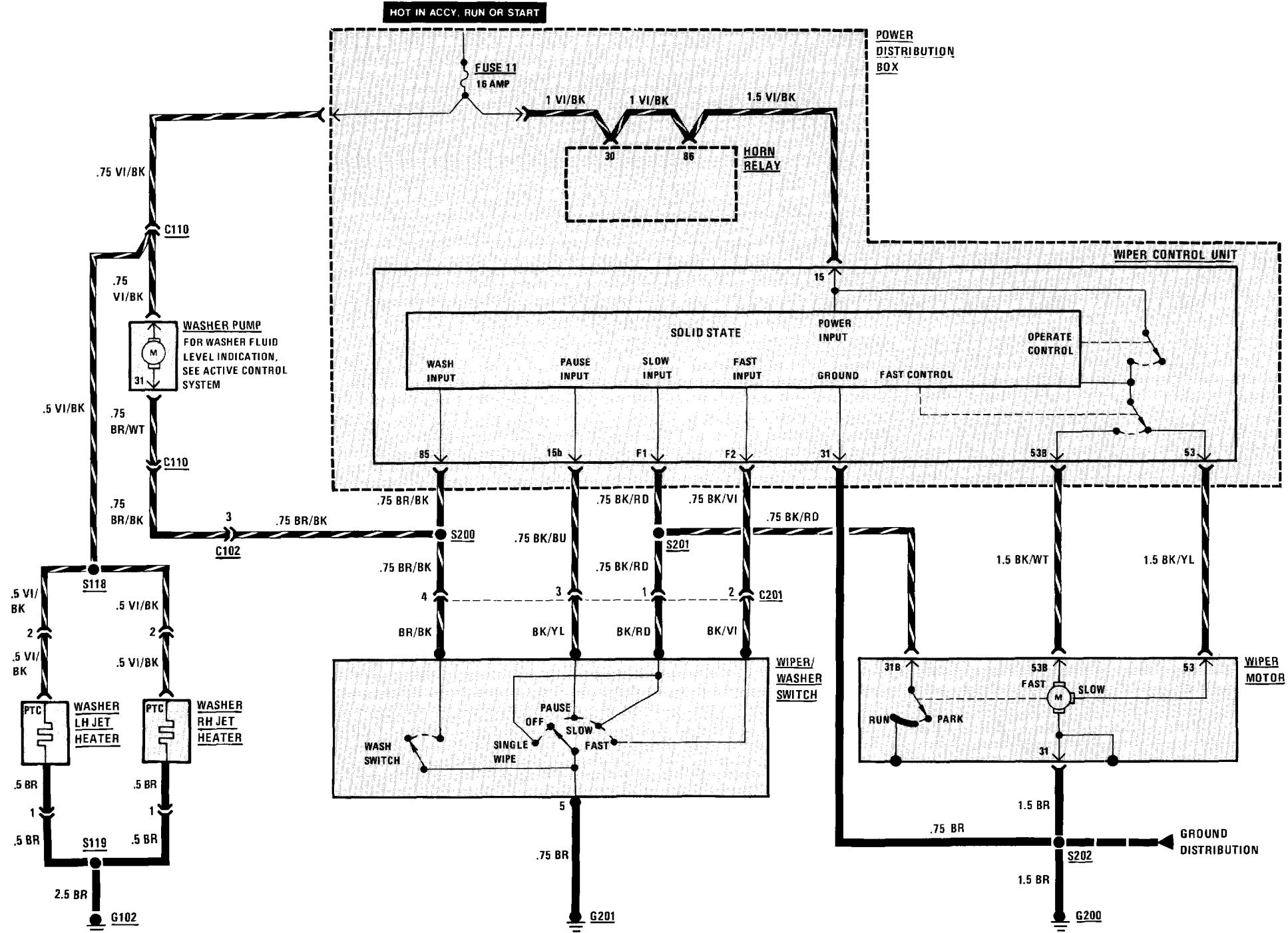


158 AUXILIARY FAN

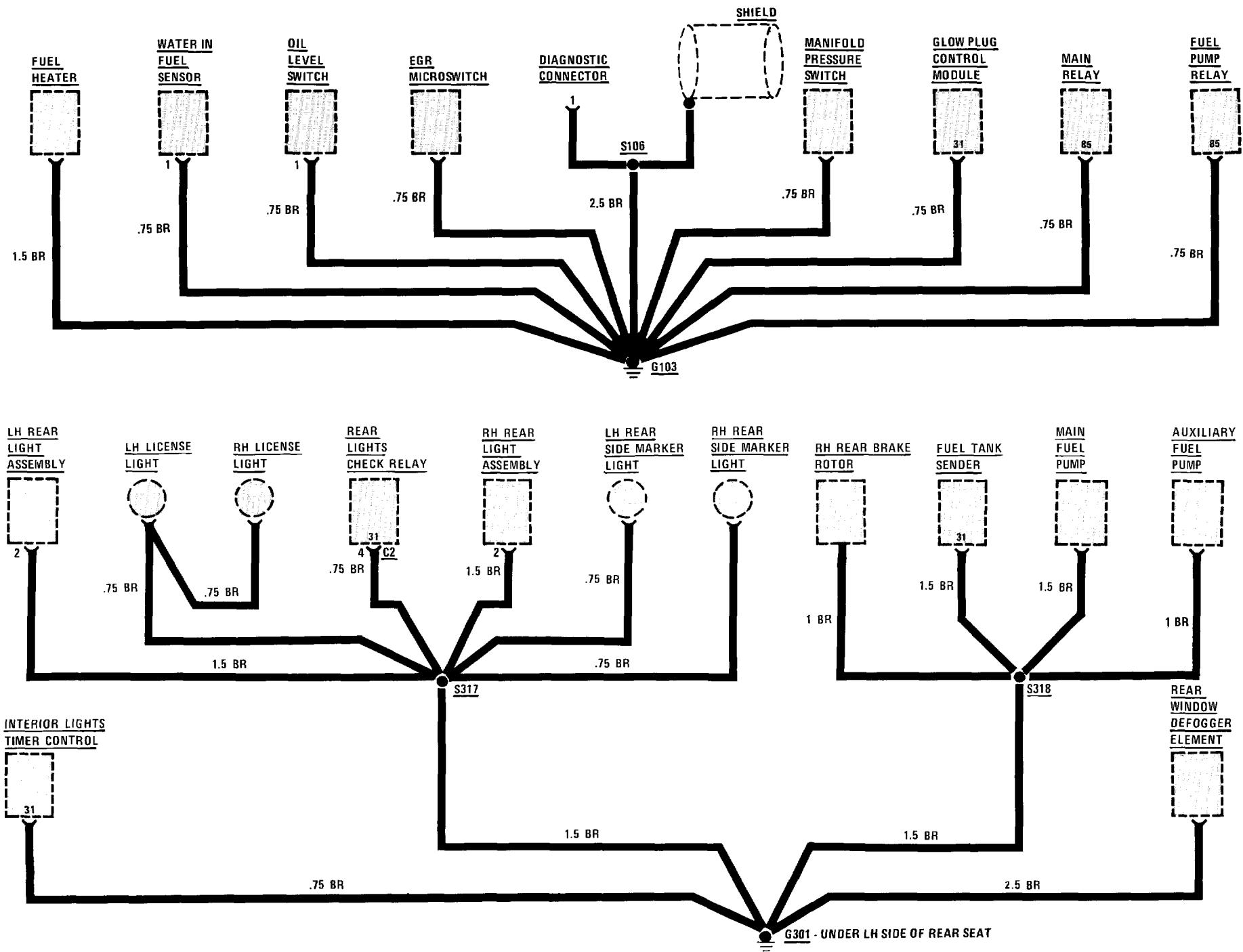
(For Component Location See Page 201)

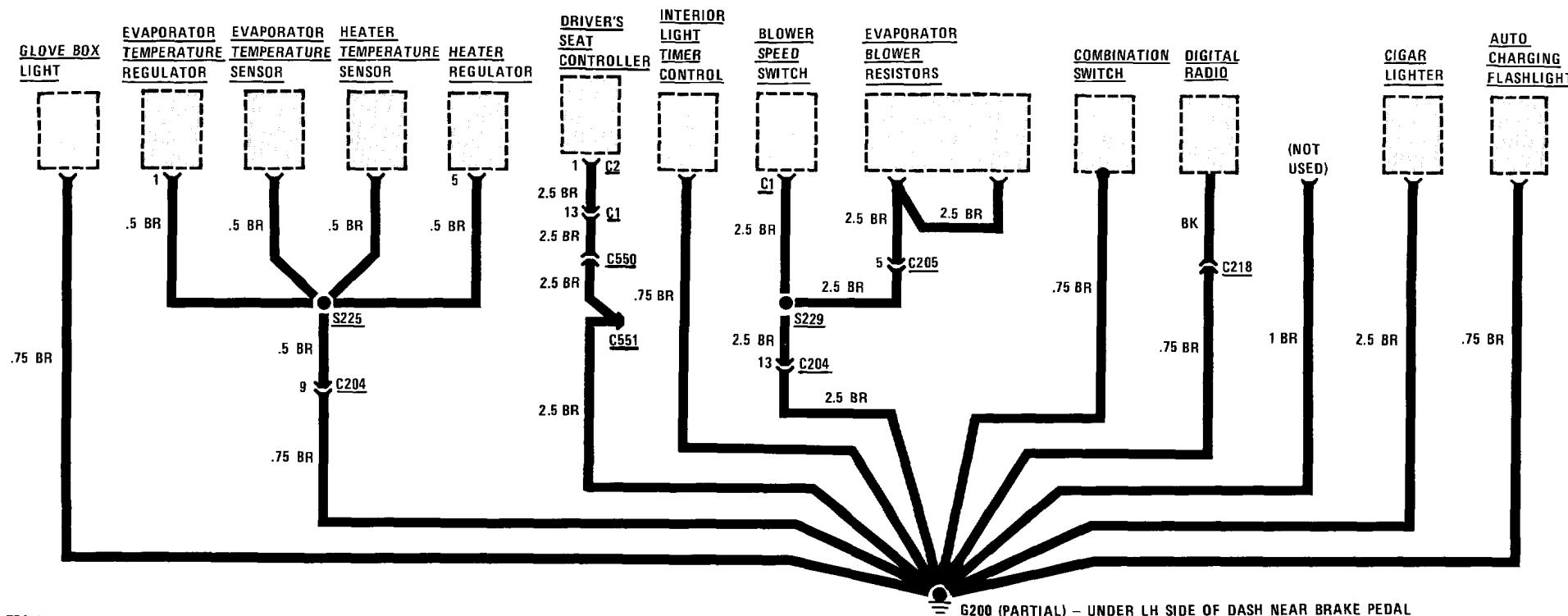
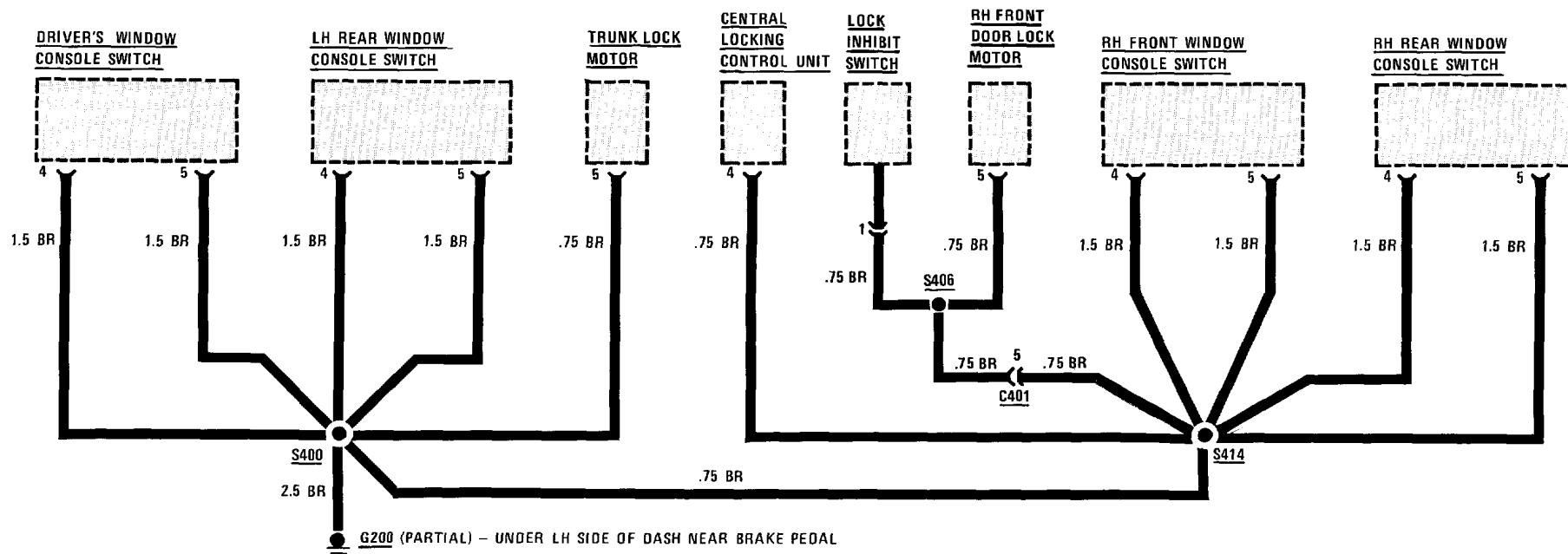


(For Component Location See Page 214)

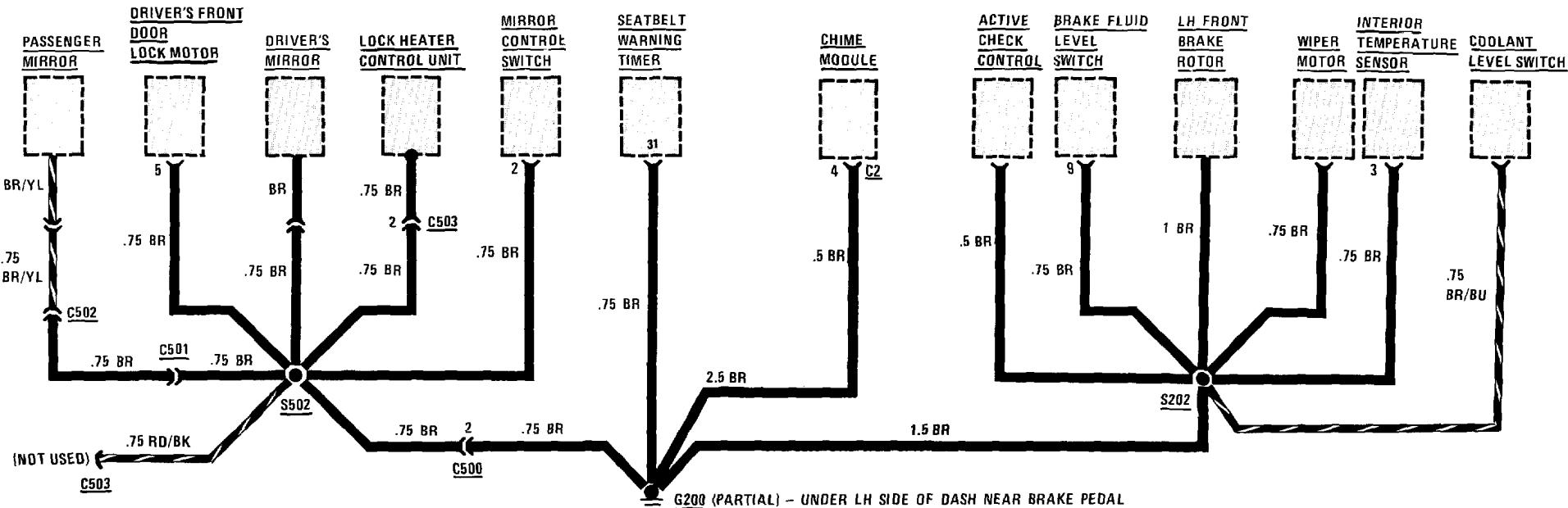
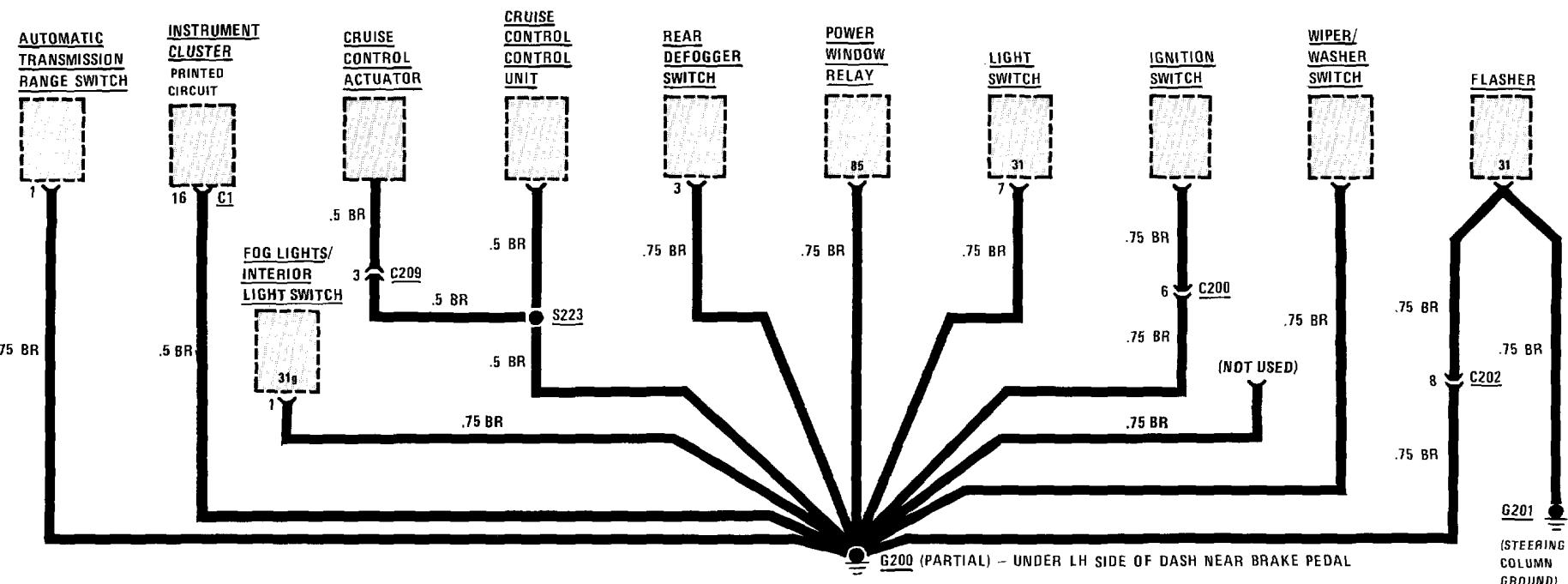


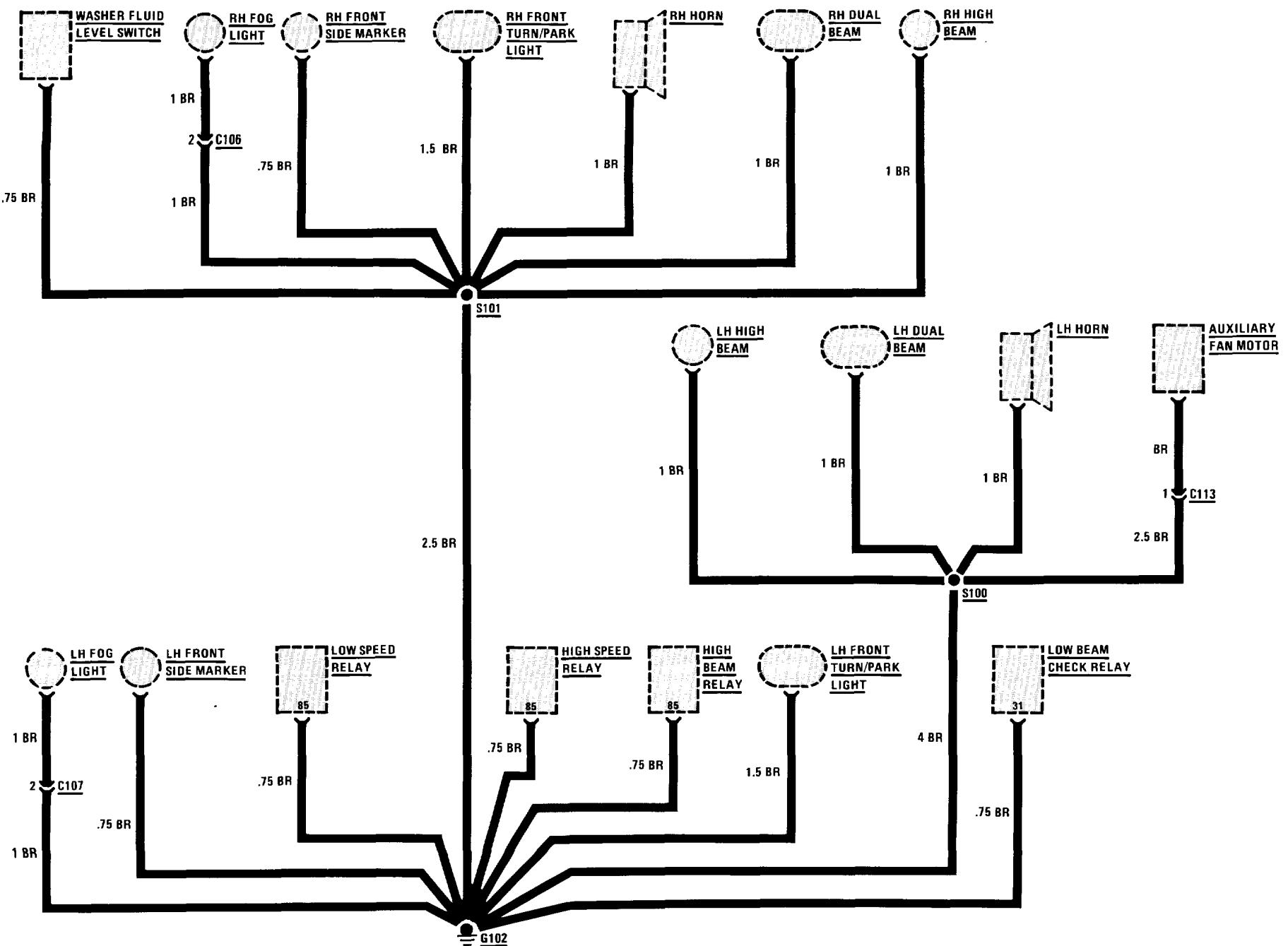
160 GROUND DISTRIBUTION (G103, G301)





162 GROUND DISTRIBUTION (G200)



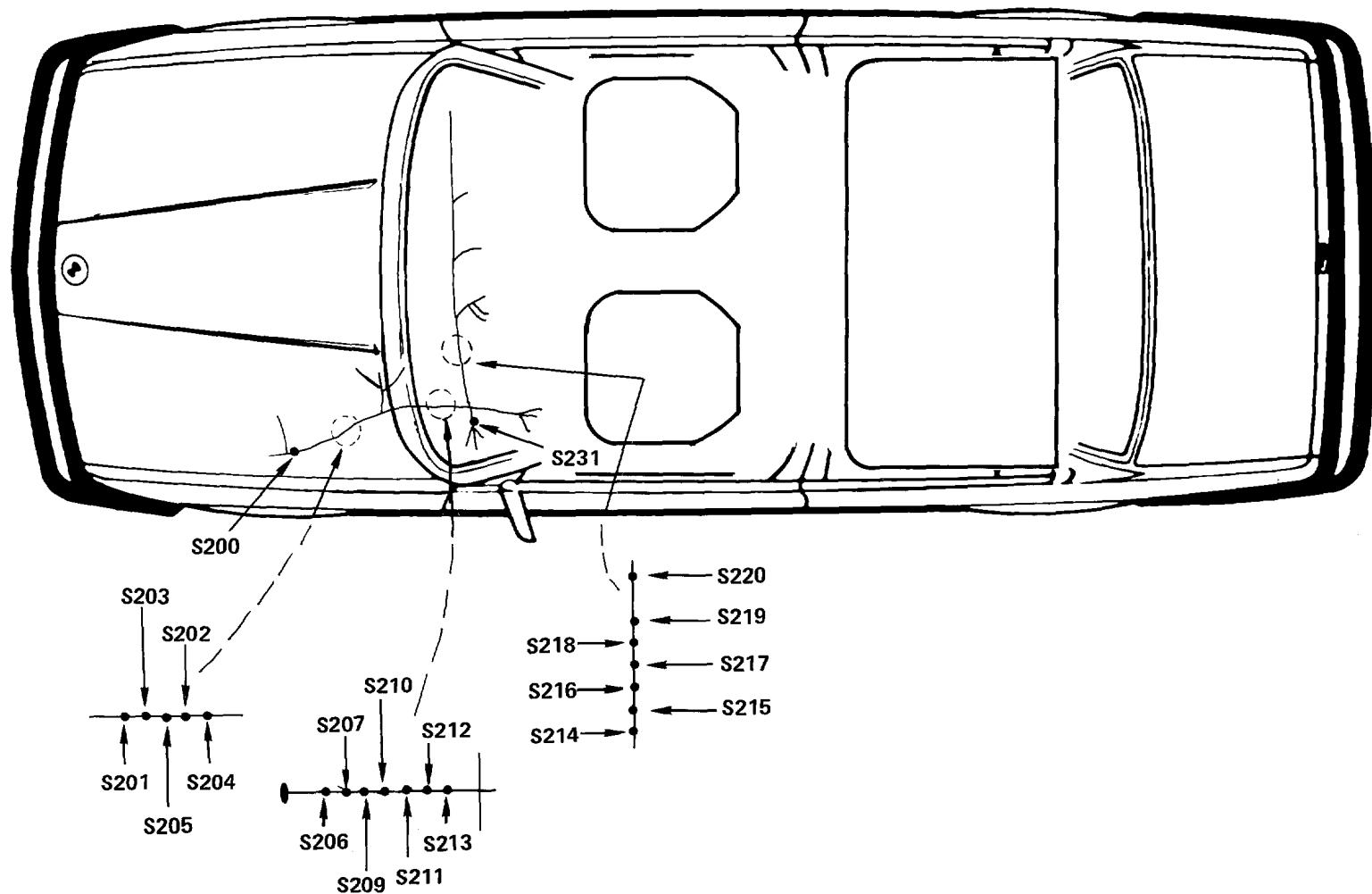


This index contains all the splices in the car, what harness each one is in, and the page that the splices appear on. The drawings after the index show how the harness is routed through the car and where the splices are located on the harness.

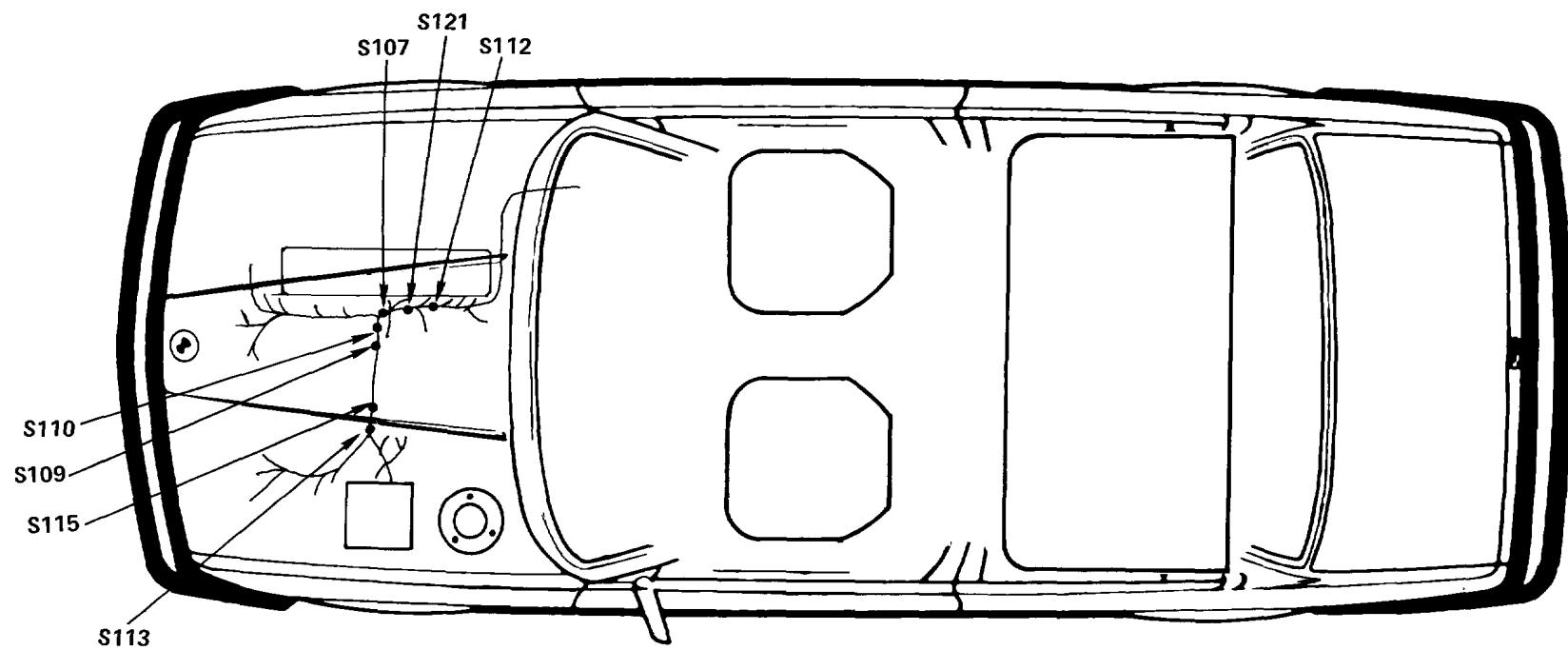
SPICE	HARNESS	PAGE NUMBER	SPICE	HARNESS	PAGE NUMBER
S100	FRONT	167	S210	MIDDLE	165
S101	FRONT	167	S211	MIDDLE	165
S102	FRONT	167	S212	MIDDLE	165
S103	FRONT	167	S213	MIDDLE	165
S104	FRONT	NOT SHOWN	S214	MIDDLE	165
			S215	MIDDLE	165
S107	ENGINE	166	S216	MIDDLE	165
S109	ENGINE	166	S217	MIDDLE	165
S110	ENGINE	166	S218	MIDDLE	165
S112	ENGINE	166	S219	MIDDLE	165
S113	ENGINE	166	S220	MIDDLE	165
S115	ENGINE	166	S221	CRUISE	
S118	HEATED WASHER JETS	NOT SHOWN	S222	CONTROL	170
			S222	CRUISE	
			S222	CONTROL	170
S119	HEATED WASHER JETS	NOT SHOWN	S223	CRUISE	
			S223	CONTROL	170
S120	FRONT	167	S224	CRUISE	
S121	ENGINE	166	S224	CONTROL	170
S200	MIDDLE	165	S225	A/C	NOT SHOWN
S201	MIDDLE	165			
S202	MIDDLE	165	S226	A/C	NOT SHOWN
S203	MIDDLE	165			
S204	MIDDLE	165	S227	A/C	NOT SHOWN
S205	MIDDLE	165			
S206	MIDDLE	165	S228	A/C	170
S207	MIDDLE	165	S229	A/C	170
S209	MIDDLE	165	S230	MIDDLE	NOT SHOWN

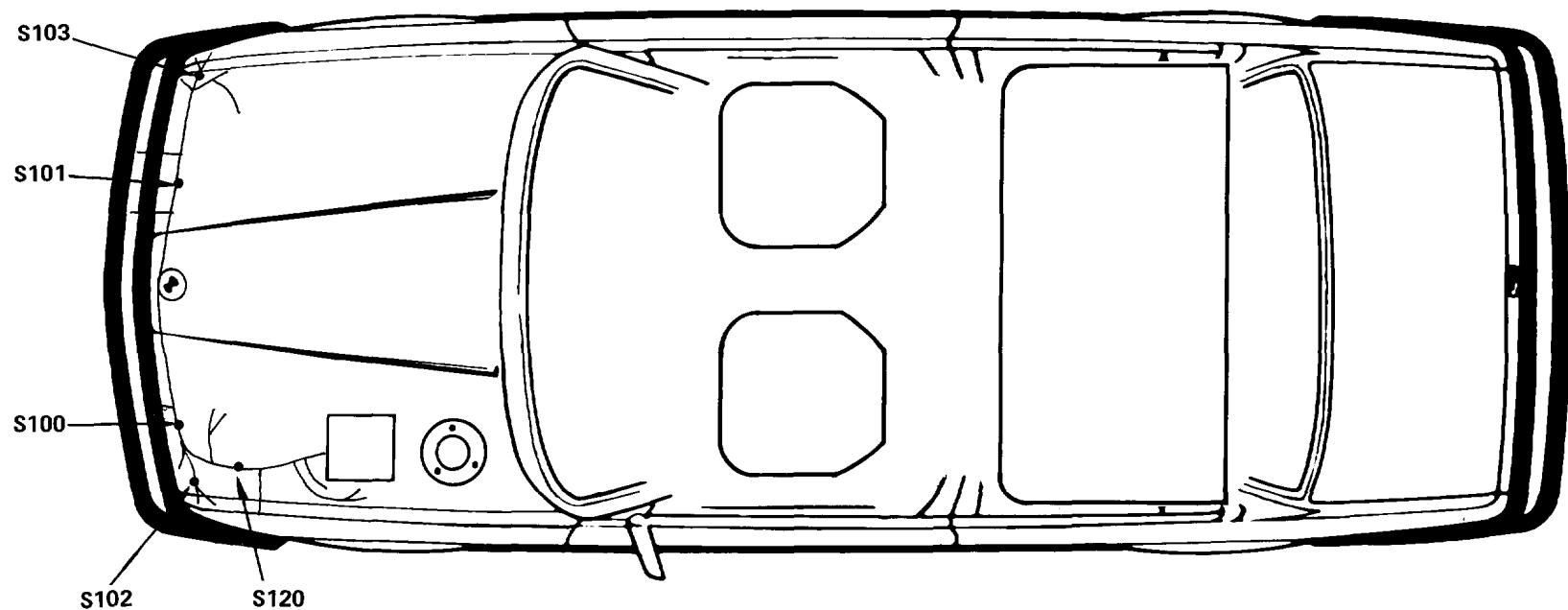
SPLICE	HARNESS	PAGE NUMBER	SPLICE	HARNESS	PAGE NUMBER
S231	MIDDLE	165	S407	ELEC LOCK/ CENTRAL LOCK	169
S300	REAR	168	S408	ELEC LOCK/ CENTRAL LOCK	169
S303	REAR	168	S409	ELEC LOCK/ CENTRAL LOCK	NOT SHOWN
S304	REAR	168	S410	ELEC LOCK/ CENTRAL LOCK	169
S305	REAR	168	S411	ELEC LOCK/ CENTRAL LOCK	169
S306	REAR	168	S412	ELEC LOCK/ CENTRAL LOCK	169
S308	REAR	168	S414	ELEC LOCK/ CENTRAL LOCK	169
S309	REAR	168	S415	ELEC LOCK/ CENTRAL LOCK	169
S310	REAR	168	S416	ELEC LOCK/ CENTRAL LOCK	169
S311	REAR	168	S417	ELEC LOCK/ CENTRAL LOCK	169
S312	REAR	168	S418	DOOR	171
S313	REAR	168	S500	DOOR	171
S314	REAR	168	S501	DOOR	171
S315	REAR	168	S502	DOOR	171
S316	REAR	168	S503	DOOR	171
S317	REAR	168	S504	DOOR	171
S318	REAR	168	S509	REAR	168
S320	REAR	168	S600	SUNROOF	NOT SHOWN
S400	ELEC LOCK/ CENTRAL LOCK	169	S601	SUNROOF	NOT SHOWN
S401	ELEC LOCK/ CENTRAL LOCK	169			
S402	ELEC LOCK/ CENTRAL LOCK	169			
S403	ELEC LOCK/ CENTRAL LOCK	169			
S404	ELEC LOCK/ CENTRAL LOCK	169			
S405	ELEC LOCK/ CENTRAL LOCK	169			
S406	ELEC LOCK/ CENTRAL LOCK	169			

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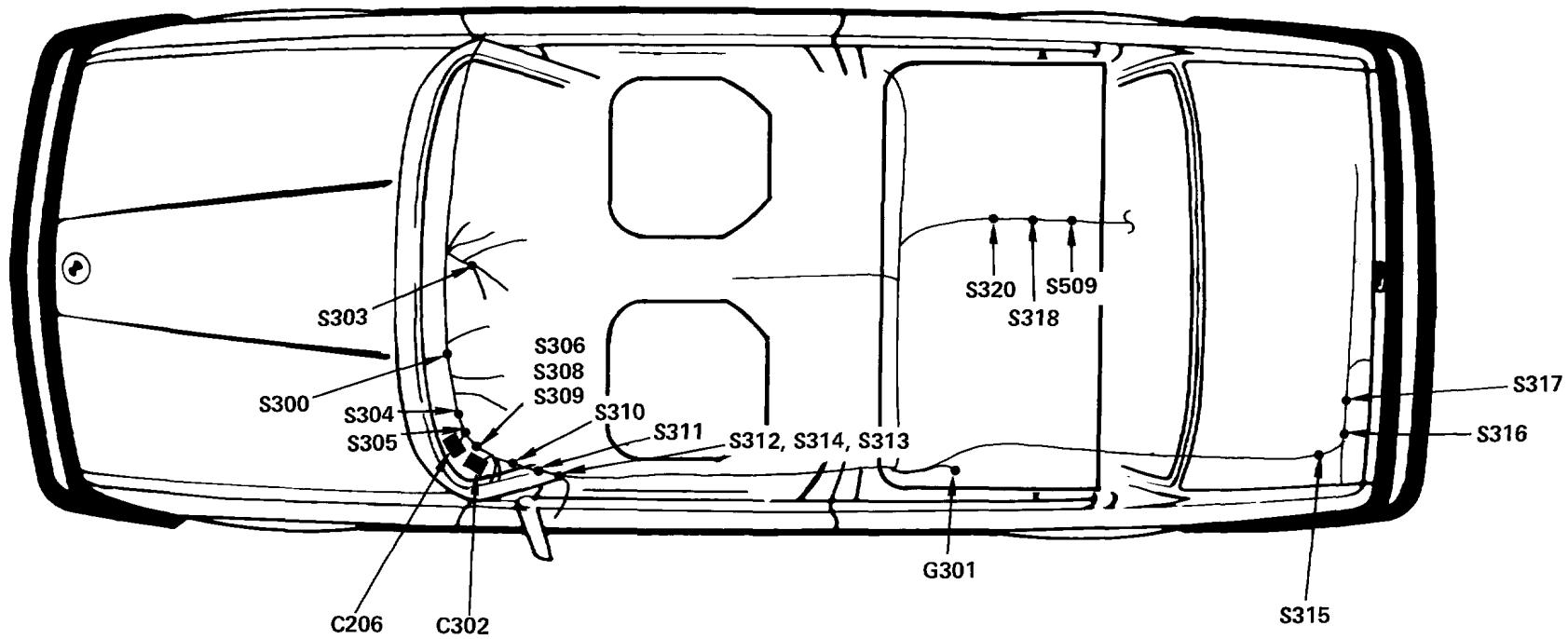


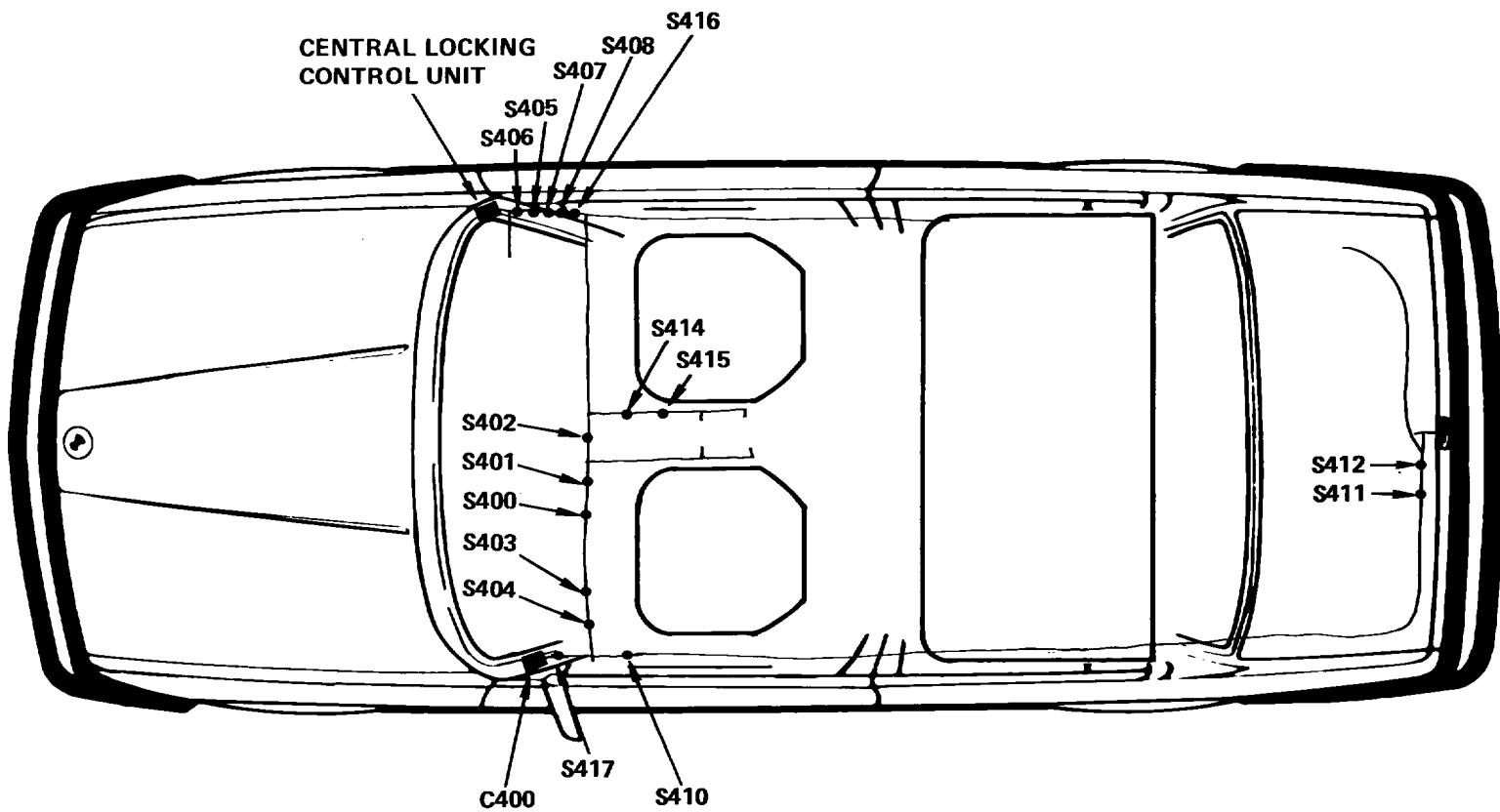
166 ENGINE HARNESS SPLICE LOCATIONS



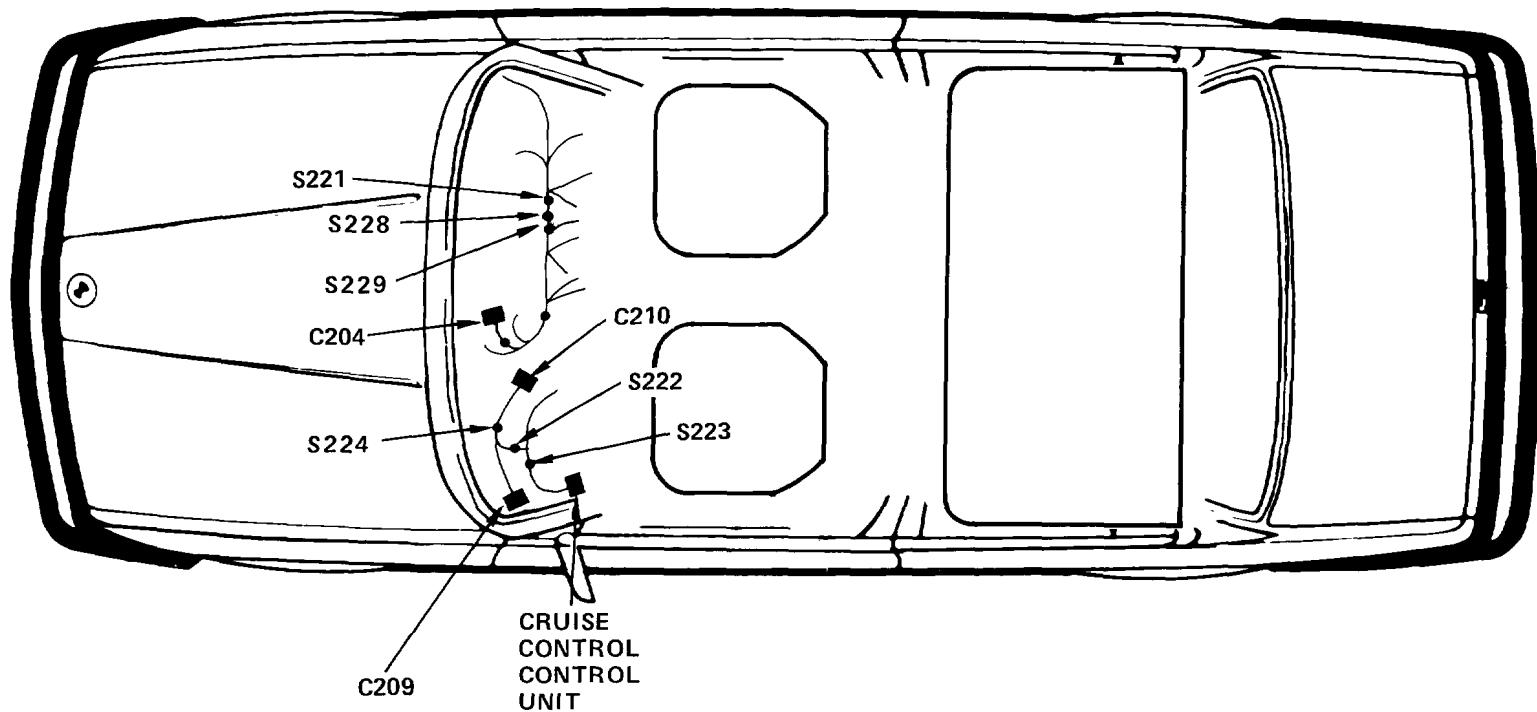


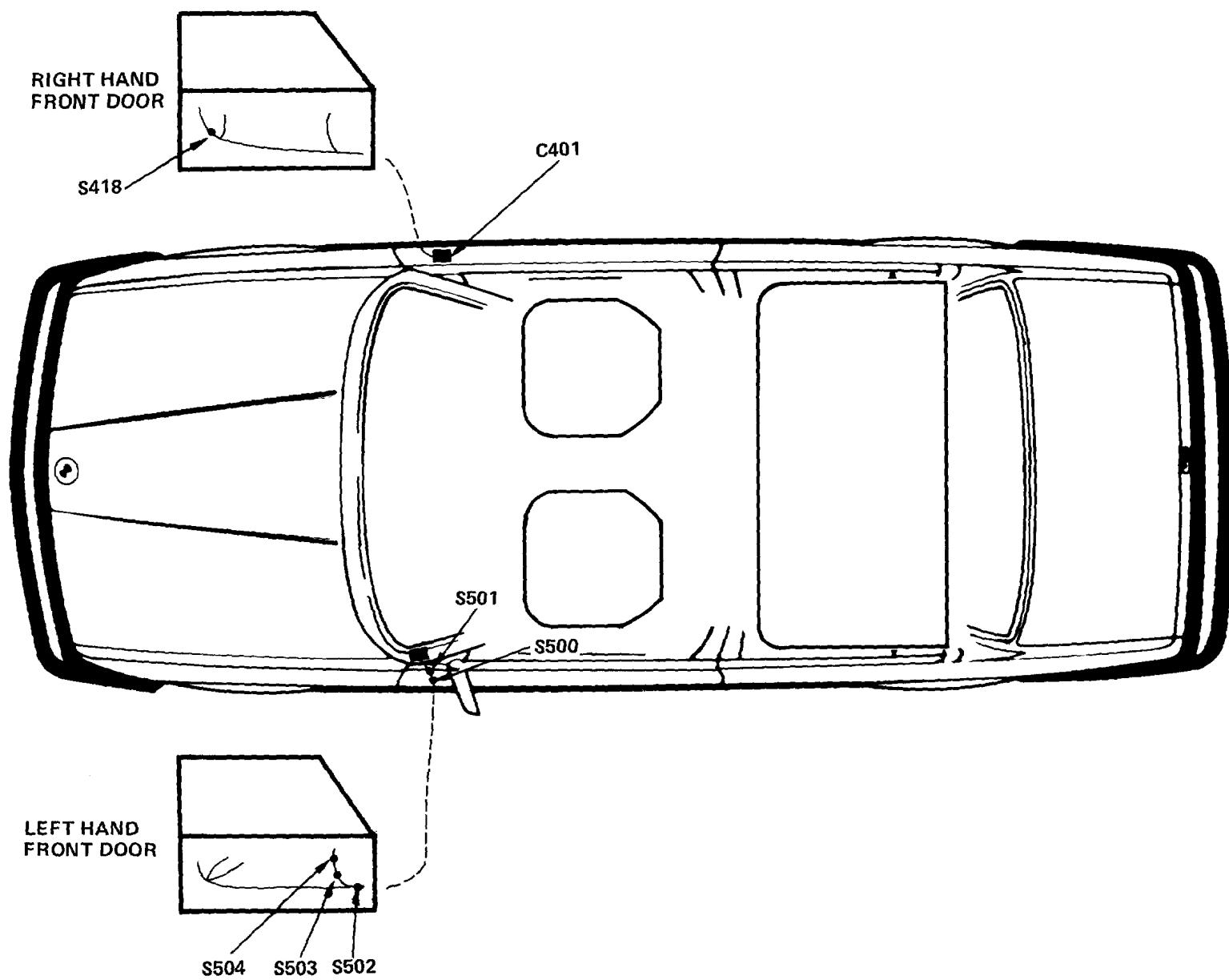
168 REAR HARNESS SPLICE LOCATIONS





170 A/C AND CRUISE HARNESES SPLICE LOCATIONS





ACTIVE CHECK CONTROL

Active Check Control Unit.....	Above rear view mirror.....	128-1
Brake Switch	Above brake pedal.....	207-3
Coolant Level Switch	On LH front wheel well in coolant reservoir	212-6
Low Beam Check Relay	Attached to power distribution box	102-1
Timing Control Unit.....	Above glove box	204-1
Oil Level Sensor.....	Bottom of engine oil pan	210-2
Power Distribution Box.....	On LH front wheel well.....	102-1
Rear Lights Check Relay.....	Mounted on trunk lock support.....	201-1
Seatbelt Warning Timer	Under LH side of dash	
Water In Fuel Sensor.....	Ahead of LH front wheel well under fuel filter	202-1
Washer Fluid Level Switch	In reservoir, behind LH headlights	211-1
C101 (17 pin).....	In power distribution box	205-1
C102 (7 pin).....	In power distribution box	205-1
C206 (29 pin)	On connector bracket under LH side of dash	206-1
G102 (Main Body Ground).....	On fender well behind LH headlights	
G103 (Engine Ground)	LH rear of engine	
G200 (Front Interior Ground)	Behind LH headlight	203-1
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

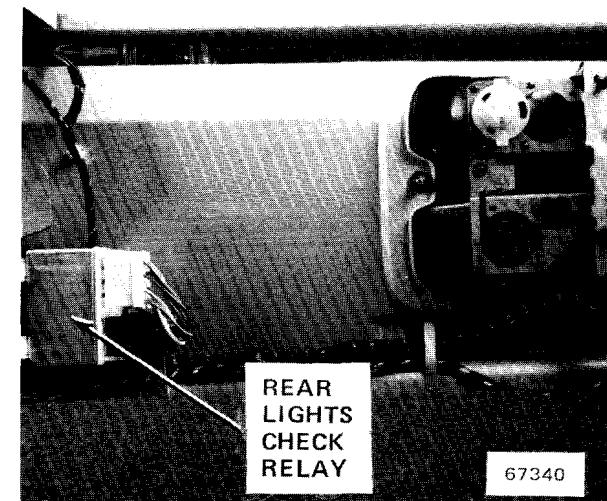


Figure 1 – Rear LH Side of Trunk

AUXILIARY FAN

Auxiliary Fan Motor.....	Forward of radiator	214-3
Evaporator Temp. Regulator	On LH side of heater/evaporator housing	212-1
High Pressure Cut-Out Switch ...	On receiver-drier behind RH headlights	207-4
High Speed Cool. Temp. Switch..	On upper LH side of radiator (red terminals).....	212-2
High Speed Relay	Attached to power distribution box	102-1
Normal Speed Blower Resistor ...	Ahead of radiator, on auxiliary fan shield	207-6
Normal Speed Cool. Temp. Switch.....	On upper LH side of radiator (white terminals).....	212-2
Normal Speed Relay	Attached to power distribution box	102-1
Power Distribution Box.....	On LH front wheel well.....	102-1
C105 (1 pin).....	On RH wheel well, near shock tower.....	204-2
C106 (1 pin).....	On RH front wheel well	204-2
C113 (3 pin).....	Foward of radiator	
G102 (Main Body Ground).....	On fender well behind LH headlights	

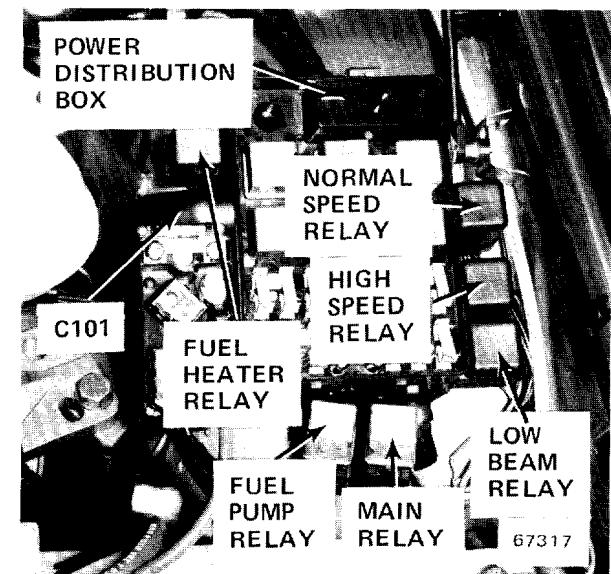


Figure 2 – LH Front Wheel Well

202 COMPONENT LOCATIONS

BACKUP LIGHTS

Auto. Trans. Range Switch	At base of shift lever.....	212-4
Backup Light Switch.....	On LH side of transmission	
Power Distribution Box.....	On LH front wheel well.....	102-1
C206 (29 pin)	On connector bracket under LH side of dash	206-1
C301 (2 pin).....	In center console, ahead of shift lever	
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

BRAKE LINING WARNING

Power Distribution Box.....	On LH front wheel well.....	102-1
C206 (29 pin)	On connector bracket under LH side of dash	206-1
G200 (Front Interior Ground)	Behind LH headlights	203-1
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

CENTRAL LOCKING

Central Locking Control Unit.....	Above right front speaker	
Gas Filler Lock Motor	In trunk, right of power antenna	
Ignition Switch.....	Upper part of steering column	
LH Front Door Lock Motor.....	In LH front door	
LH Rear Door Lock Motor	In LH rear door	
Lock Inhibit Switch.....	In RH front door near door lock cylinder	
Power Distribution Box.....	On LH front wheel well.....	102-1
RH Front Door Lock Motor.....	In RH front door	
RH Rear Door Lock Motor	In RH rear door	
Trunk Lock Actuator.....	In rear panel of trunk	
Unlock Inhibit Switch.....	In LH door near door lock cylinder	
C200 (10 pin).....	Lower LH side of dash	203-2
C206 (29 pin)	On connector bracket under LH side of dash	206-1
C302 (Accessory Connector)....	Under LH side of dash.....	206-1
C400 (13 pin).....	Behind LH front speaker.....	213-3
C401 (13 pin).....	Behind RH front speaker	
C402 (7 pin).....	In LH B pillar	
C403 (7 pin).....	In RH B pillar	
C404 (5 pin).....	Near connector bracket under LH side of dash	
C405 (2 pin).....	In trunk near trunk lock	
C500 (6 pin).....	Behind LH front speaker	
G200 (Front Interior Ground)	Behind LH headlights	203-1



Figure 1 — Near LH Front Wheel Well

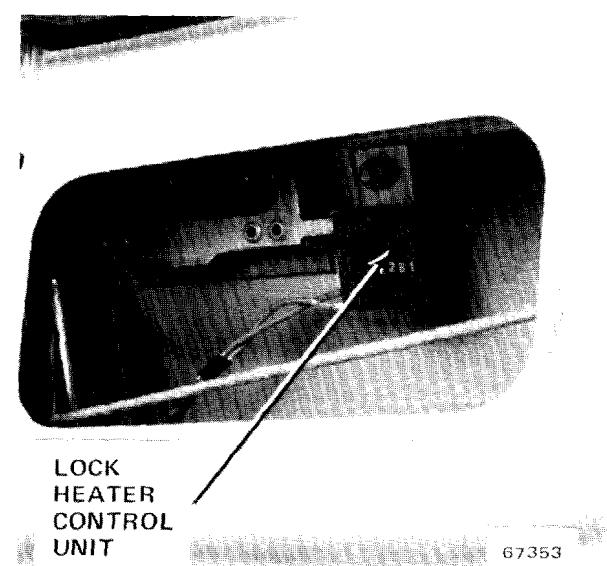


Figure 2 — Inside Driver's Door

CHARGING SYSTEM

Diagnostic Connector.....	Top rear of engine	104-1
Ignition Switch.....	Upper part of steering column	
Power Distribution Box.....	On LH front wheel well.....	102-1
Starter.....	Lower rear LH side of engine	
C101 (17 pin).....	In power distribution box	205-1
C200 (10 pin).....	On LH side of steering column	203-2
C206 (29 pin)	On connector bracket under LH side of dash.....	206-1
C302 (Accessory Connector)....	Under LH side of dash.....	206-1
G102 (Main Body Ground).....	On fender well behind LH headlights	

CIGAR LIGHTER/GLOVE BOX LIGHT/ AUTO-CHARGING FLASH LIGHT

Auto-Charging Flashlight.....	In glove box	
Power Distribution Box.....	On LH front wheel well.....	102-1
C206 (29 pin)	On connector bracket under LH side of dash.....	206-1
C302 (Accessory Connector)....	Under LH side of dash.....	206-1
G200 (Front Interior Ground)	Behind LH headlights	203-1

CRUISE CONTROL/STOP LIGHTS

Active Check Control Unit.....	Above rear view mirror.....	128-1
Auto. Trans. Range Switch.....	At base of shift lever.....	212-4
Brake Switch	Above brake pedal.....	207-3
Clutch Switch	Above clutch pedal	
Cruise Control Actuator.....	On LH front wheel well, near shock tower	207-1
Cruise Control Control Unit.....	Mounted on left under dash cover	203-2
Cruise Control Switch	On RH side of steering column	209-1
Power Distribution Box.....	On LH front wheel well.....	102-1
Rear Lights Check Relay.....	Mounted on trunk lock support.....	201-1
C206 (29 pin)	On connector bracket under LH side of dash.....	206-1
C208 (2 pin).....	Near clutch pedal.....	206-1
C209 (7 pin).....	Near cruise control control unit.....	203-2
C210 (4 pin).....	On LH side of steering column	203-2
C211 (1 pin).....	Under LH side of dash	
C301 (2 pin).....	In center console, ahead of shift lever	
C302 (Accessory Connector)....	Under LH side of dash.....	206-1
G200 (Front Interior Ground)	Behind LH headlights	203-1
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1



Figure 1 – Behind LH Headlights

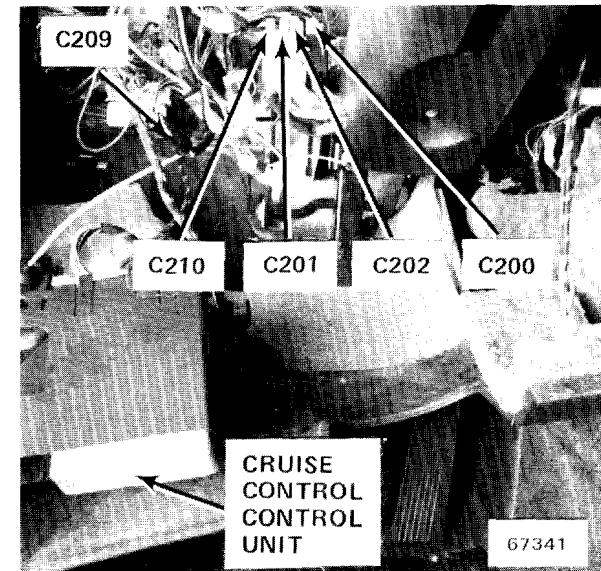


Figure 2 – Lower LH Side of Dash

FUEL CONTROL/EXHAUST GAS RECIRCULATION

Active Check Control Unit.....	Above rear view mirror.....	128-1
Coolant Temperature Switch	On upper LH side of radiator	
Diagnostic Connector.....	Top rear of engine	104-1
EGR Micro Switch.....	LH front of engine on fuel injection pump	213-2
EGR Valve.....	LH front of engine on fuel injection pump.....	213-1
Engine Speed Sensor	Top rear of engine	213-4
Fuel Injector	Top rear of engine	216-4
Fuel Shutoff Valve.....	LH front of engine on fuel injection pump.....	206-2
Ignition Switch.....	Upper part of steering column	
Main Relay	On power distribution box	201-2
Timing Control Unit.....	Above glove box	204-1
On-Board Computer Relay Box ...	Mounted on left under dash cover	
78°C Temperature Switch.....	LH rear of engine	
C101 (17 pin).....	In power distribution box	205-1
C200 (10 pin).....	On LH side of steering column	203-2
C212 (1 pin).....	Under LH side of dash taped to harness	
G102 (Main Body Ground).....	On fender well behind LH headlights	
G103 (Engine Ground).....	LH rear of engine	



Figure 1 – Below RH Side of Dash

FUEL DELIVERY

Auxiliary Fuel Pump	In fuel tank, under trunk.....	210-1
Diagnostic Connector.....	Top rear of engine	213-4
Fuel Heater.....	LH front of engine on fuel filter	
Fuel Heater Relay.....	On power distribution box	201-2
Fuel Pump Relay	On power distribution box	201-2
Ignition Switch.....	Upper part of steering column	
Main Fuel Pump.....	Forward and right of differential housing	
Power Distribution Box.....	On LH front wheel well.....	102-1
Start Relay	Under LH side of dash.....	206-1
TDC Sensor	Above crank shaft vibration damper	
5.5°C Temperature Switch.....	LH front of engine on fuel filter.....	202-1
C101 (17 pin).....	In power distribution box	201-2
C200 (10 pin).....	On LH side of steering column	203-2
C206 (29 pin)	On connector bracket under LH side of dash	206-1
C213	Under LH side of dash, near steering column	
G103 (Engine Ground)	LH rear of engine	207-3
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

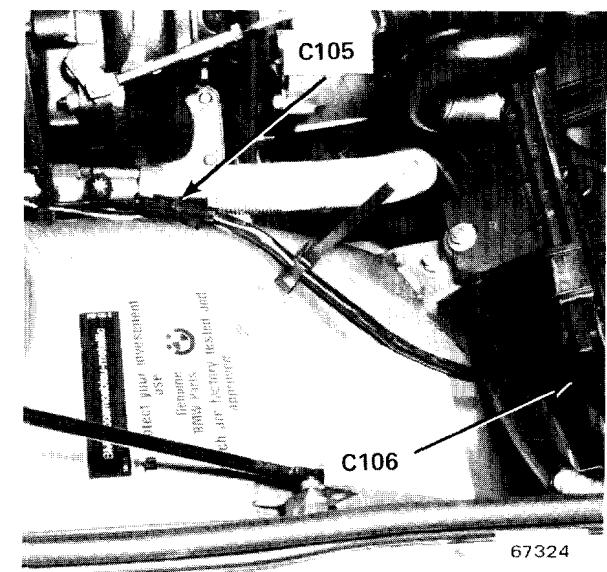


Figure 2 – RH Front Wheel Well

GLOW PLUG CONTROL

Coolant Temperature Sender	Front of engine on thermostat housing	
Fuel Pump Relay	On power distribution box	201-2
Glow Plug Control Module.....	On LH front wheel well near power distribution box	202-1
Power Distribution Box.....	On LH front wheel well.....	102-1
C101 (17 pin).....	In power distribution box	201-2
G103 (Engine Ground)	LH rear of engine	

HEADLIGHTS (CONTROL/POWER)/FOG LIGHTS (CONTROL/POWER)

Active Check Control Unit.....	Above rear view mirror.....	128-1
Combination Switch.....	On LH side of steering column	
Low Beam Check Relay	Attached to power distribution box	102-1
Power Distribution Box.....	On LH front wheel well.....	102-1
C102 (7 pin).....	In power distribution box	205-1
C107 (2 pin).....	Behind LH headlights	203-1
C108 (2 pin).....	Behind RH headlights	211-1
C202 (13 pin).....	On LH side of steering column	203-2
G102 (Main Body Ground).....	On fender well behind LH headlights	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket.....	203-1

HEATER/AIR CONDITIONING

Blower Speed Switch.....	In center console	
Evaporator Blower Motor.....	Under center of dash.....	205-2
Evaporator Blower Resistors.....	On RH side of upper console	205-2
Evaporator Temp. Regulator	On LH side of heater/evaporator housing	212-1
Evaporator Temp. Sensor	In evaporator, above evaporator blower motor	212-1
Heater Blower Motor	Below windshield, behind cover panel	
Heater Blower Resistors.....	Below heater cover motor	
Heater Regulator	Behind A/C selector switch	
Heater Temperature Sensor.....	LH side heater/evaporator, near heater core.....	212-1
High Pressure Cut-Out Switch ...	On receiver-drier behind RH headlights	207-4
Interior Temp. Sensor.....	Mounted in left under dash cover.....	212-3
Power Distribution Box.....	On LH front wheel well.....	102-1
Water Shutoff Valve.....	Below brake master cylinder	211-2
C105 (1 pin).....	At RH wheel well, below coolant reservoir.....	204-2
C106 (1 pin).....	Near air conditioning compressor.....	204-2
C204 (13 pin).....	On LH side of heater/evaporator housing	
C205 (6 pin).....	On RH side of heater/evaporator housing	205-2
C214 (6 pin).....	Behind center of dash, near heater blower	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	

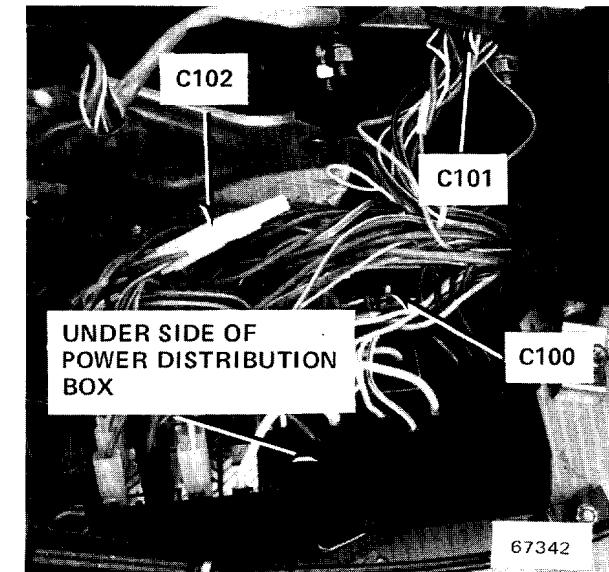


Figure 1 – Top of LH Front Wheel Well

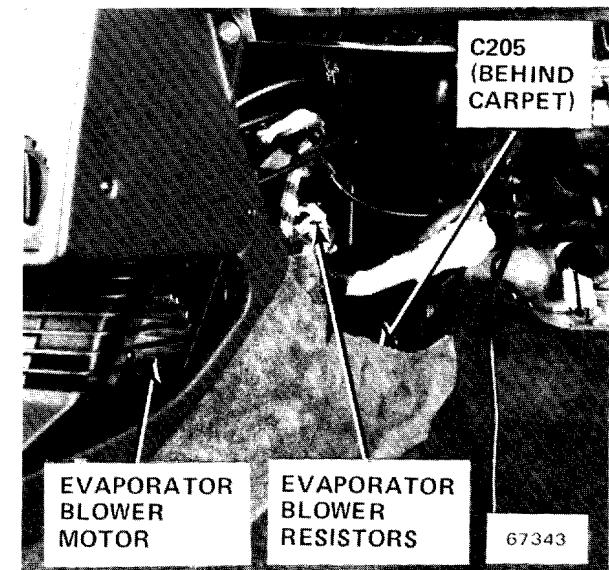


Figure 2 – RH Side of Upper Console

HORN/SUNROOF

Horn Brush/Slip Ring.....	Below hub of steering wheel.....	207-2
Horn Switches.....	In each spoke on steering wheel	
Motor Relay	Behind header, above rear view mirror	
Power Distribution Box.....	On LH front wheel well.....	102-1
Sunroof Motor	Behind header, above rear view mirror	
Sunroof Switch	Above rear view mirror	
C200 (10 pin).....	On LH side of dash	203-2
C206 (29 pin)	On connector bracket under LH side of dash.....	206-1
C302 (Accessory Connector)....	Under LH side of dash.....	206-1
G102 (Main Body Ground).....	On fender well behind LH headlights	203-1
G200 (Front Interior Ground)	Behind LH headlights	203-1
G600.....	Near sunroof switch	

IGNITION KEY WARNING/SEATBELT WARNING

Active Check Control Unit.....	Above rear view mirror.....	128-1
Chime Module	Mounted on left under dash cover	207-2
Ignition Key Switch.....	In upper portion steering column	
Power Distribution Box.....	On LH front wheel well.....	102-1
Seatbelt Switch.....	In driver's seatbelt buckle	
Seatbelt Warning Timer	Under LH side of dash.....	212-1
C200 (10 pin).....	On LH side of steering column	203-2
C203 (2 pin).....	At upper end of steering column.....	208-2
C206 (29 pin)	On connector bracket under LH side of dash.....	206-1
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket.....	203-1

INTERIOR LIGHTS

Ignition Switch.....	Upper part of steering column	
Interior Light Timer Control.....	Under LH side of dash.....	212-1
Lock Heater Control Unit.....	In LH front door	202-2
Power Distribution Box.....	On LH front wheel well.....	102-1
C200 (10 pin).....	On LH side of steering column	203-2
C206 (29 pin)	On connector bracket under LH side of dash.....	206-1
C302 (Accessory Connector)....	Under LH side of dash.....	206-1
C303 (2 pin).....	In headliner, near LH dome light	
C500 (6 pin).....	Behind LH front speaker	
C503 (8 pin).....	In driver's door.....	202-2
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket.....	203-1

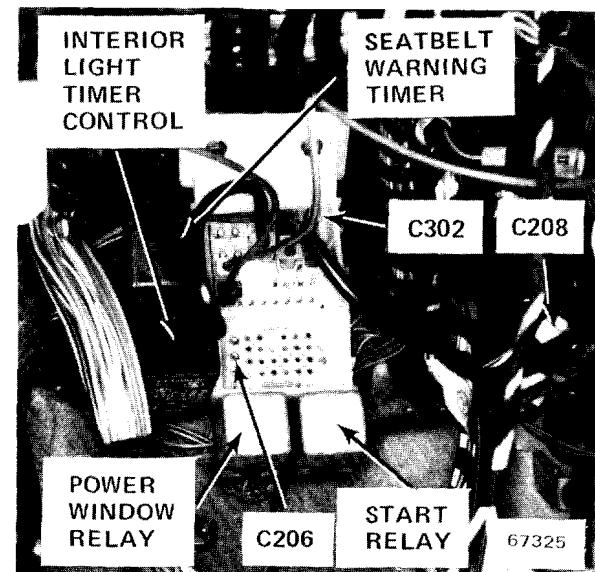


Figure 1 – Under Left Side of Dash

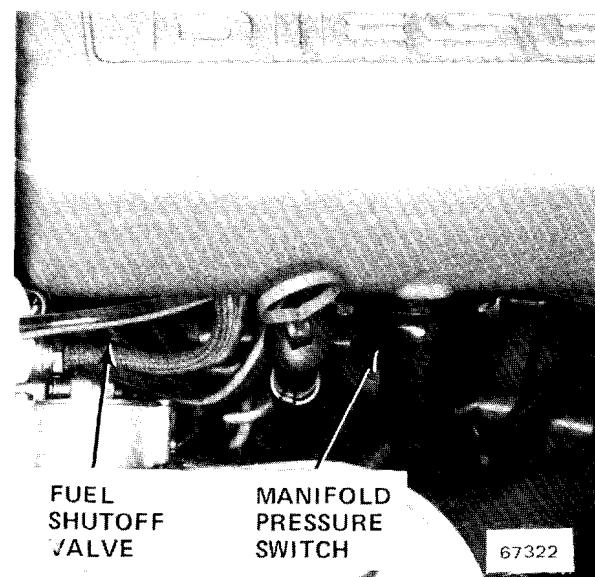


Figure 2 – LH Front of Engine

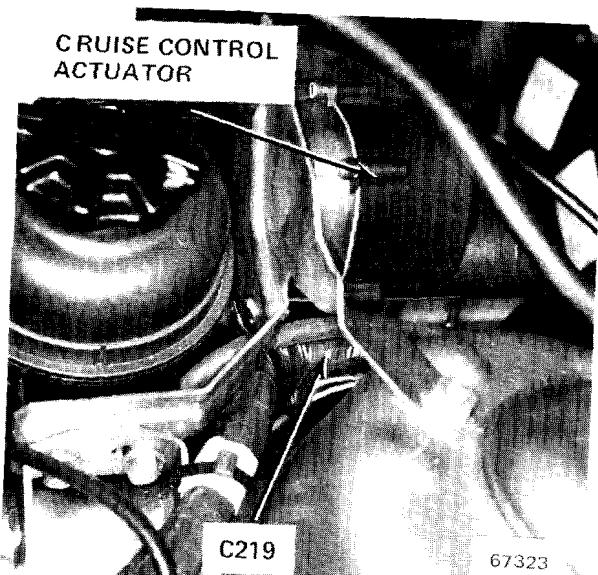


Figure 1 - Near LH Shock Tower

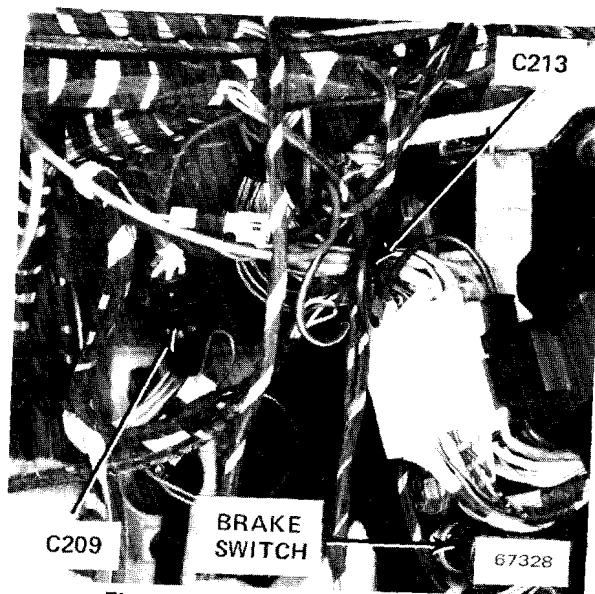


Figure 3 - Lower LH Side Of Dash

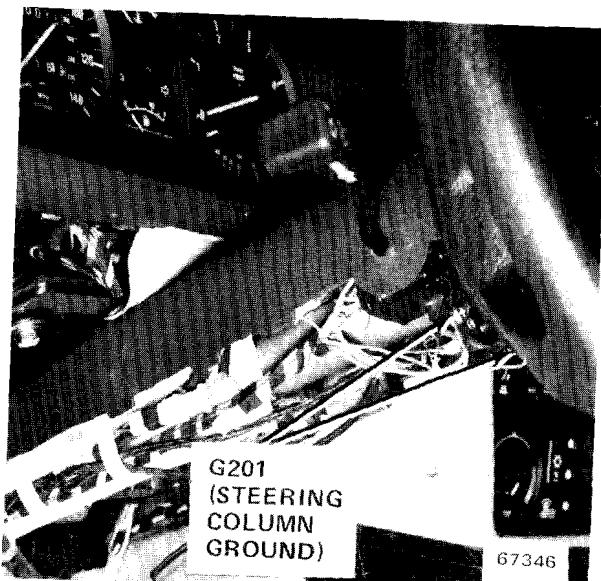


Figure 5 - Upper Part Of Steering Column

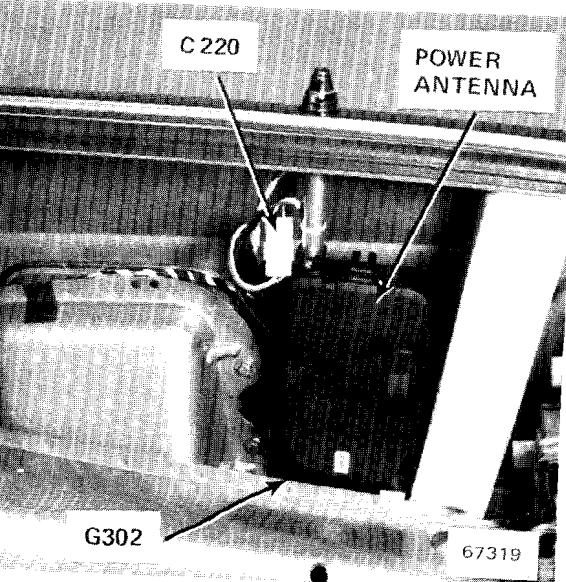


Figure 2 - RH Rear Of Trunk



Figure 4 - Behind LH Headlights

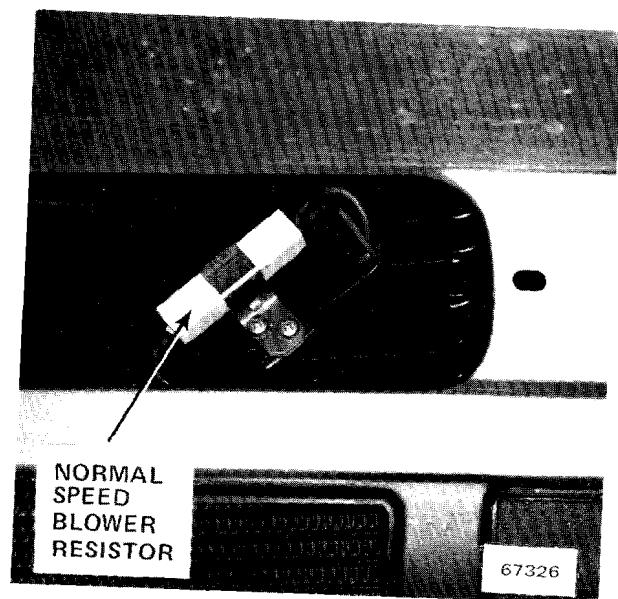


Figure 6 - Ahead Of Radiator

LIGHTS: DASH/TRANSMISSION RANGE

Auto. Trans. Range Switch	At base of shift lever.....	212-4
Fog Light Switch	Under LH side of instrument cluster	
Hazard Switch	To right of instrument cluster	
Heater-A/C Panel Lights	Behind heater-air conditioning control panel	
Power Distribution Box	On LH front wheel well.....	102-1
C104 (2 pin)	RH side of dash near Motronic control unit	
C204 (13 pin)	On LH side of heater/evaporator housing	
C206 (29 pin)	On connector bracket under LH side of dash	206-1
C215 (2 pin)	Behind radio	
C301 (2 pin)	In center console, ahead of shift lever	
C302 (Accessory Connector)	Under LH side of dash.....	206-1
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	

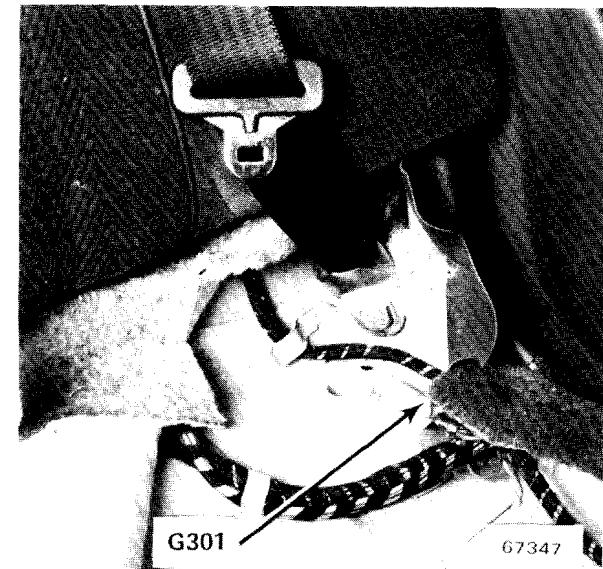


Figure 1 – Under LH Rear Seat

LIGHTS: FRONT PARK/FRONT MARKER/TAIL

Active Check Control Unit	Above rear view mirror.....	128-1
Power Distribution Box	On LH front wheel well.....	102-1
Rear Lights Check Relay	Mounted on trunk lock support.....	201-1
C206 (29 pin)	On connector bracket under LH side of dash	206-1
G102 (Main Body Ground)	On fender well behind LH headlights	
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

LIGHTS: REAR MARKER/LICENSE/TRUNK

Active Check Control Unit	Above rear view mirror.....	128-1
Power Distribution Box	On LH front wheel well.....	102-1
Rear Lights Check Relay	Mounted on trunk lock support.....	201-1
Trunk Light Switch	In trunk lid near trunk lock	
C206 (29 pin)	On connector bracket under LH side of dash	206-1
C300 (2 pin)	Near trunk light	
C302 (Accessory Connector)	Under LH side of dash.....	206-1
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

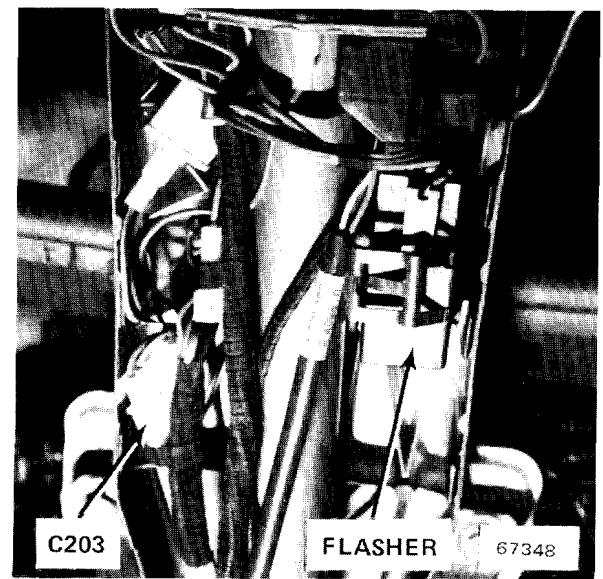


Figure 2 – Upper Part of Steering Column

LIGHTS TURN/HAZARD WARNING

Combination Switch.....	On LH side of steering column	
Flasher.....	Upper part of steering column.....	208-2
Hazard Switch.....	Top right of instrument cluster	
Power Distribution Box.....	On LH front wheel well.....	102-1
C102 (7 pin).....	In power distribution box	205-1
C202 (13 pin).....	On LH side of steering column	203-2
C206 (29 pin)	On connector bracket under LH side of dash	206-1
G102 (Main Body Ground).....	On fender well behind LH headlights	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	
G201 (Steering Column Ground) .	Upper part of steering column.....	207-2
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

POWER DISTRIBUTION

Combination Switch.....	On LH side of steering column	
Diagnostic Connector.....	LH side of engine	104-1
Ignition Switch.....	Upper part of steering column	
Power Distribution Box.....	On LH front wheel well.....	102-1
Starter.....	Lower rear LH side of engine	
C200 (10 pin).....	On LH side of steering column	203-2
C202 (13 pin).....	On LH side of steering column	203-2
G102 (Main Body Ground).....	On fender well behind LH headlights	

POWER MIRRORS

Mirror Control Switch.....	On driver's door	
Power Distribution Box.....	On LH front wheel well.....	102-1
C206 (29 pin)	On connector bracket under LH side of dash	206-1
C500 (6 pin).....	Behind LH front speaker	
C501 (4 pin).....	Behind LH front speaker	
C502 (4 pin).....	Behind RH front speaker.	
G200 (Front Interior Ground)	Under LH side of dash, near bracket	



Figure 1 – Upper Part of Steering Column

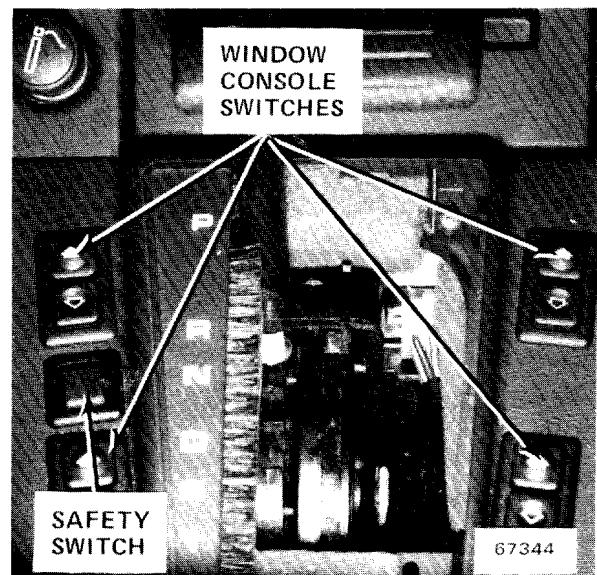


Figure 2 – Shift Console Near Shift Lever

210 COMPONENT LOCATIONS

POWER SEATS

Driver's Seat Controller	Under driver's seat on frame	
Passenger Seat Controller	Under passenger's seat on frame	
C206 (29 pin)	On connector bracket under LH side of dash	206-1
C302 (Accessory Connector)	Under LH side of dash.....	206-1
C550 (2 pin).....	Under center console	
C551 (2 pin).....	Under center console	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	

POWER WINDOWS

Power Distribution Box.....	On LH front wheel well.....	102-1
Power Window Circuit Brkr.....	Mounted in left under dash cover.....	212-5
Power Window Relay I	Under LH side of dash.....	102-1
Safety Switch	On shift console.....	209-2
Window Console Switches	On shift console.....	209-2
Window Motors.....	In each door	
C206 (29 pin)	On connector bracket under LH side of dash	206-1
C302 (Accessory Connector)	Under LH side of dash.....	206-1
C400 (13 pin).....	Behind RH front speaker	
C401 (13 pin).....	Behind RH front speaker	
C402 (6 pin).....	At LH rear door grommet	
C403 (6 pin).....	At RH rear door grommet	
C500 (6 pin).....	Behind left front speaker	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	

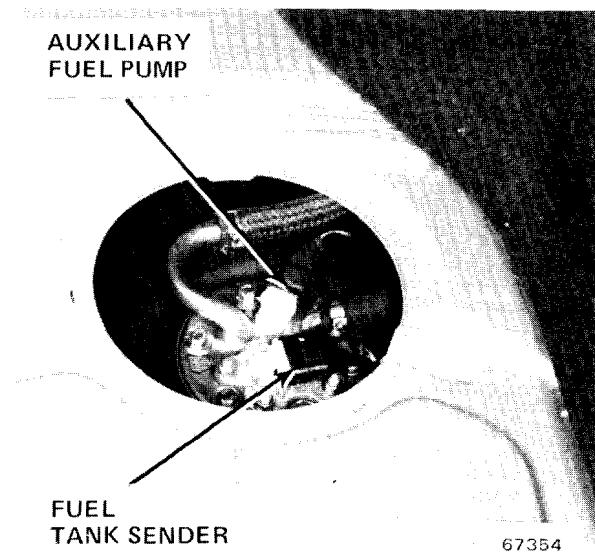


Figure 1 – Bottom RH Side of Trunk

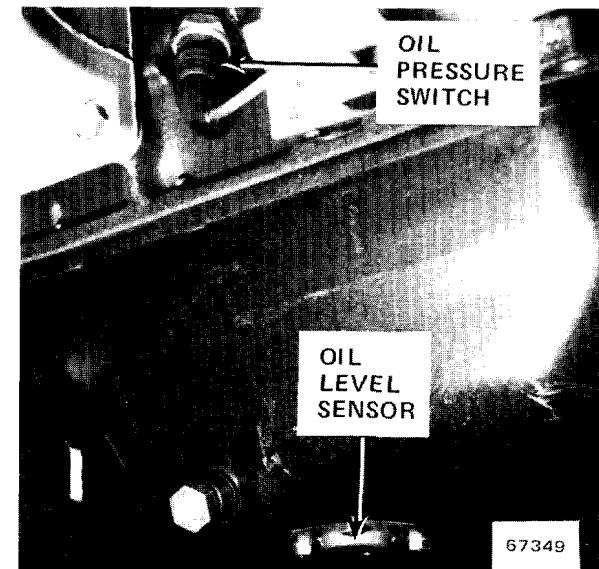


Figure 2 – RH Side of Oil Pan

RADIO/POWER ANTENNA

Fader Control	In upper part of center console	212-1
Power Distribution Box.....	On LH front wheel well.....	102-1
C206 (29 pin)	On connector bracket under LH side of dash.....	206-1
C215 (2 pin).....	Behind radio	
C216 (2 pin).....	Behind radio	
C217 (2 pin).....	Behind radio	
C218 (2 pin).....	Behind radio	
C219 (2 pin).....	RH side of trunk near power antenna	
C302 (Accessory Connector)....	Under LH side of dash.....	206-1
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	
G302 (Power Antenna Ground) ..	RH side of trunk under power antenna	

REAR DEFOGGER/HEATER DOOR LOCK

Lock Heater Control Unit.....	In LH front door	202-2
Lock Heater	In LH front door	
Power Distribution Box.....	On LH front wheel well.....	102-1
C206 (29 pin)	On connector bracket under LH side of dash.....	206-1
C302 (Accessory Connector)....	Under LH side of dash.....	206-1
C500 (6 pin).....	Behind LH front speaker	
C503 (8 pin).....	In driver's door.....	202-2
C560 (2 pin).....	In LH front door	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

SERVICE INTERVAL INDICATOR

Coolant Temp. Sender	Front of engine on thermostat housing	213-2
Diagnostic Connector.....	Top rear of engine	104-1
Timing Control Unit.....	Above glove box	204-1
Power Distribution Box.....	On LH front wheel well.....	102-1
C101 (17 pin).....	In power distribution.....	215-2
C103 (6 pin).....	RH side of dash near Motronic control unit.....	205-1
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	

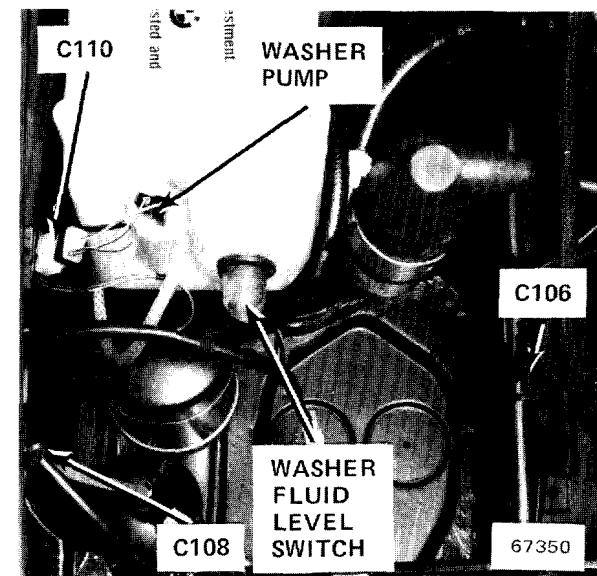


Figure 1 – Forward of Water Reservoir

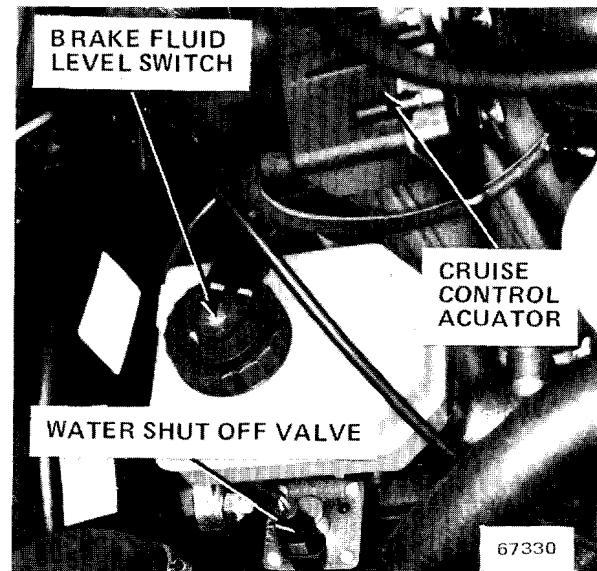


Figure 2 – LH Rear of Engine Compartment

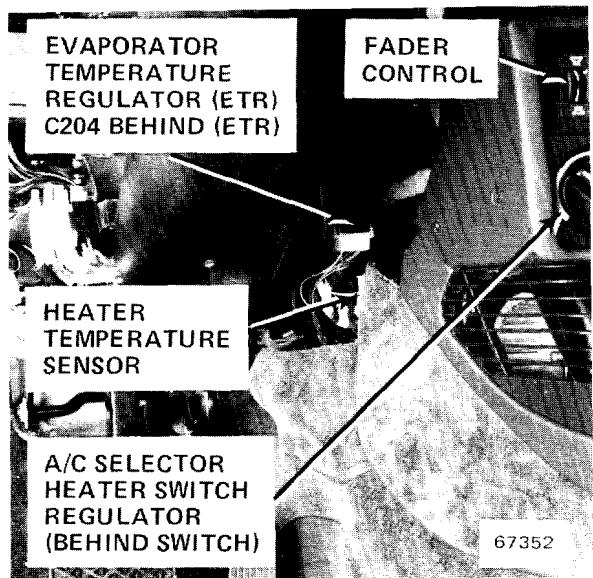


Figure 1 - LH Side Of Upper Console

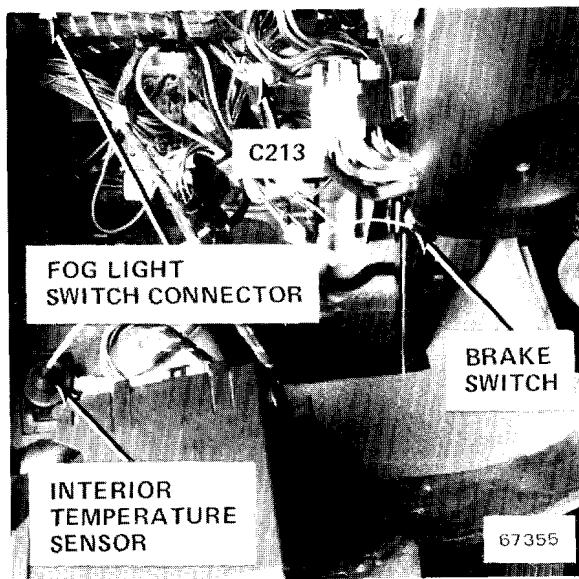


Figure 3 - Lower LH Side Of Dash



Figure 5 - Left Of Upper Console

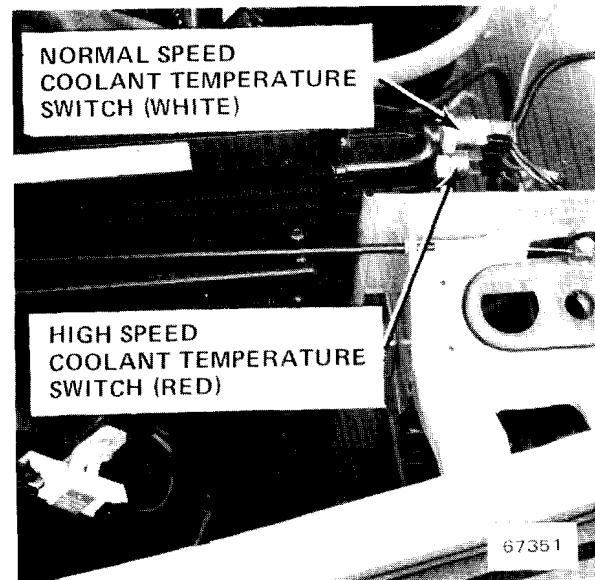


Figure 2 - LH Side Of Radiator



Figure 4 - Console, At Gearshift Selector



Figure 6 - LH Side Of Engine

SPEEDOMETER/GAUGES/WARNING INDICATORS

Brake Fluid Level Switch	LH rear of engine, on brake fluid reservoir	214-1
Coolant Temp. Sender	Front of engine, on thermostat housing	206-2
Diagnostic Connector.....	LH side of engine.....	104-1
Fuel Tank Sender.....	Under trunk, top RH side of fuel tank	213-5
Ignition Switch.....	Upper part of steering column	
Manifold Pressure Switch	LH side of engine under air intake manifold	
Motronic Control Unit.....	Above glove box	204-1
Oil Pressure Switch.....	RH side of engine, below oil filter.....	210-2
Parking Brake Switch	In shift console at base of parking brake	
Power Distribution Box.....	On LH front wheel well.....	102-1
Speedometer Sender	In rear of differential	
C101 (17 pin).....	In power distribution box	205-1
C200 (10 pin).....	On LH side of steering column	203-2
G103 (Engine Ground)	LH rear of engine	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	
G301 (Rear Interior Ground)	Under LH side of rear seat	208-1

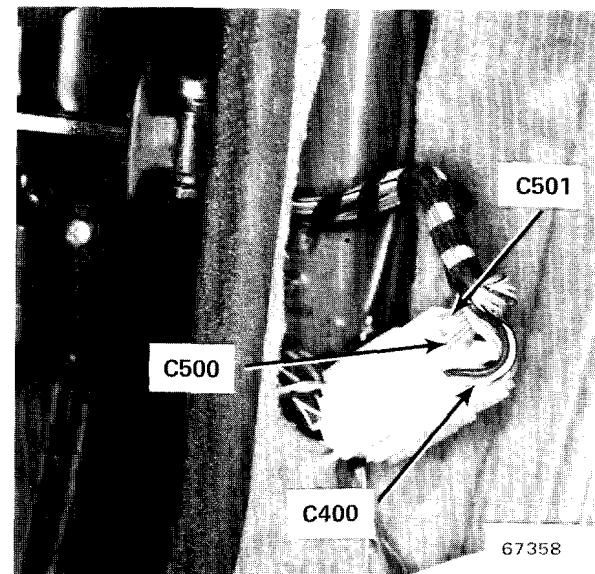


Figure 3 - Behind LH Front Speaker

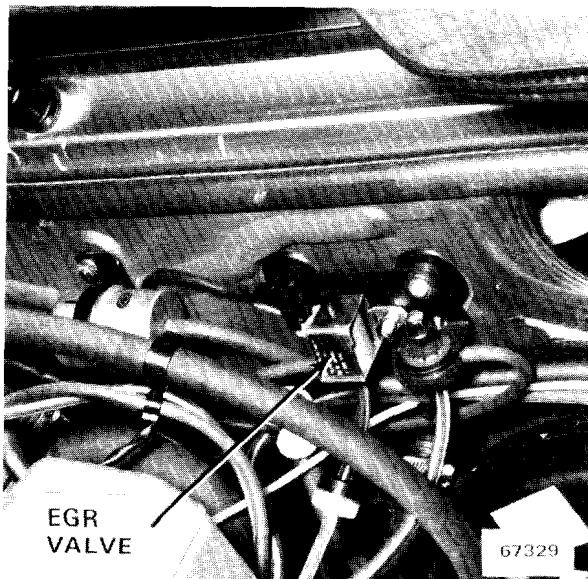


Figure 1 - Above Brake Vacuum Booster

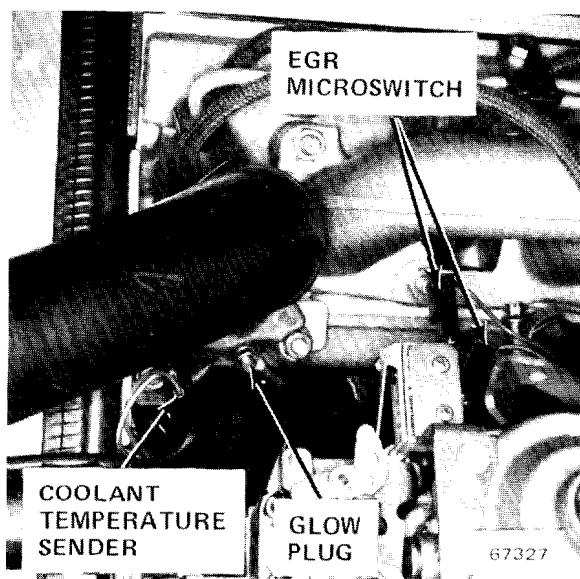


Figure 2 - LH Front Of Engine

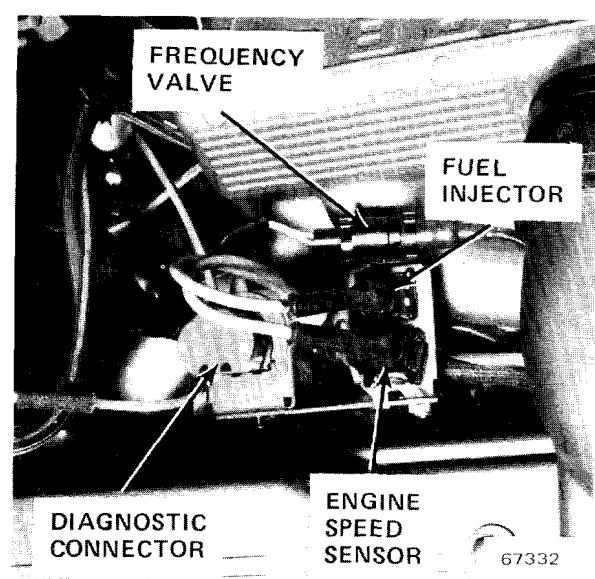


Figure 4 - Top Rear Of Engine

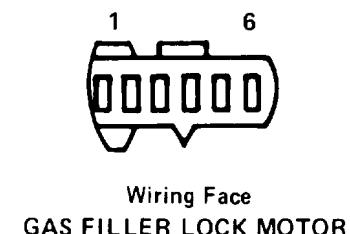
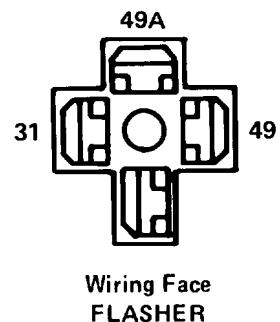
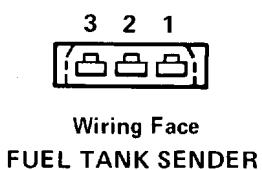
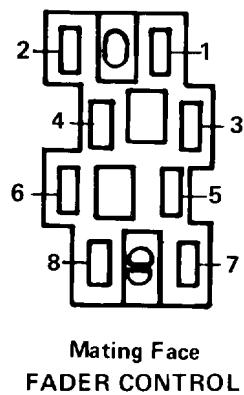
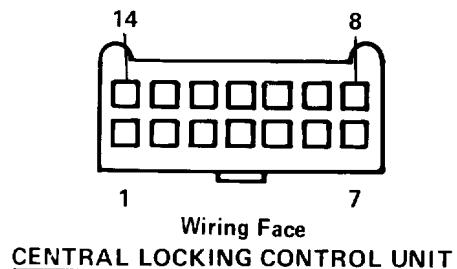
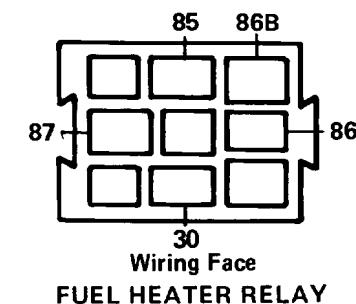
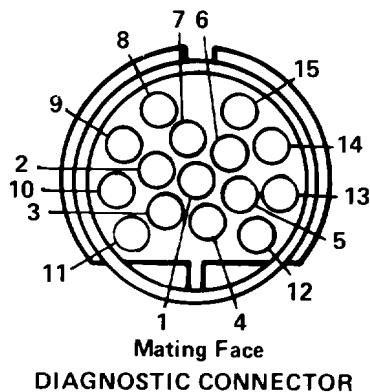
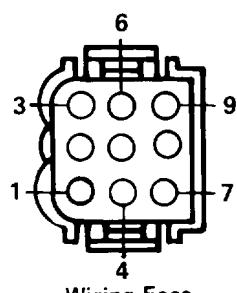
214 COMPONENT LOCATIONS

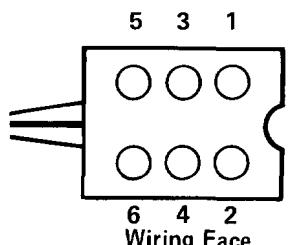
START

Auto. Trans. Range Switch	At base of shift lever.....	212-4
Diagnostic Connector.....	Top rear of engine	104-1
Fuel Heater Relay.....	On power distribution box	201-2
Ignition Switch.....	Upper part of steering column	
Power Distribution Box.....	On LH front wheel well.....	102-1
Start Relay	On connector bracket under LH side of dash	206-1
Starter.....	Lower rear LH side of engine	
C101 (17 pin).....	In power distribution box	205-1
C200 (10 pin).....	On LH side of steering column	203-2
G102 (Main Body Ground).....	On fender well behind LH headlights	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	

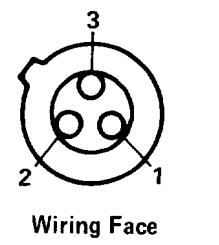
WIPER/WASHER

Power Distribution Box.....	On LH front wheel well.....	102-1
Washer Jet Heaters	On washer jet nozzles	
Washer Pump.....	Forward of RH front wheel well, in reservoir	211-1
Wiper Motor.....	Above brake master cylinder	
Wiper/Washer Switch.....	On RH side of steering column	209-1
C102 (7 pin).....	In power distribution box	205-1
C110 (2 pin).....	Near washer pump	
C201 (6 pin).....	On LH side of steering column	
G200 (Front Interior Ground)	Under LH side of dash, near brake bracket	
G201 (Steering Column Ground) .	Upper part of steering column.....	207-2

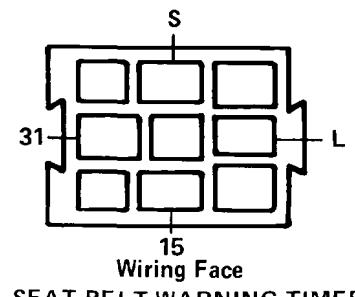




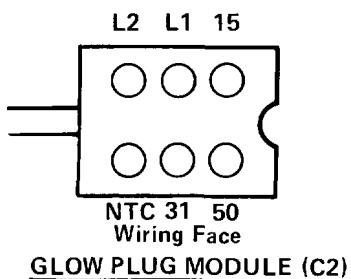
GLOW PLUG MODULE (C1)



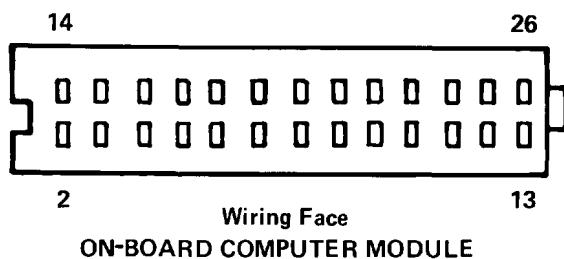
OIL LEVEL SWITCH



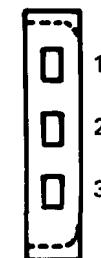
SEAT BELT WARNING TIMER



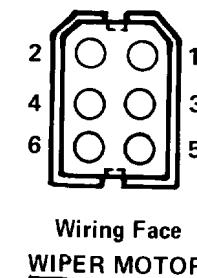
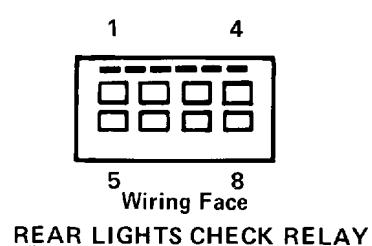
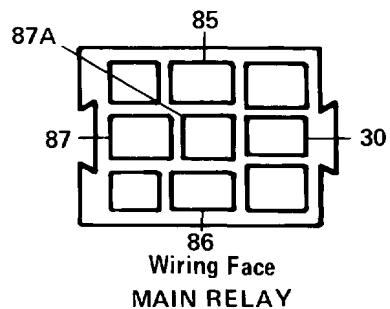
GLOW PLUG MODULE (C2)



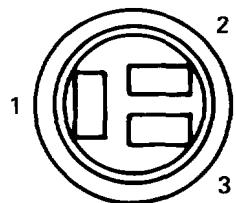
ON-BOARD COMPUTER MODULE



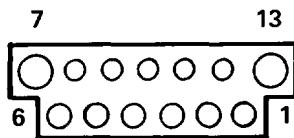
SUNROOF MOTOR (CI)



WIPER MOTOR



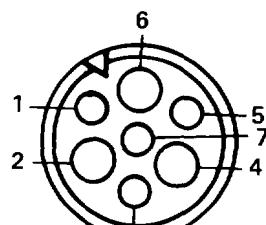
Wiring Face
C113



Wiring Face
C202



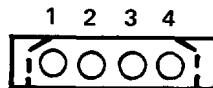
Wiring Face
C114



Wiring Face
C209



Wiring Face
C201



Wiring Face
C210