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**1982**

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**BMW 733i**

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**Electrical**

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**Troubleshooting**

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**Manual**

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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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**1982  
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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.

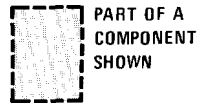
WIRE SIZE CONVERSION CHART	
METRIC (CROSSECTIONAL AREA IN MM <sup>2</sup> )	AWG (AMERICAN WIRE GAUGE)
.5	20
.75	18
1	16
1.5	14
2	14
2.5	12
4	10
6	8
8	8
16	4
20	4
25	2
32	2

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

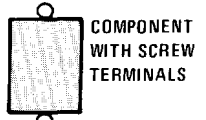
# 4 SYMBOLS



ENTIRE COMPONENT SHOWN



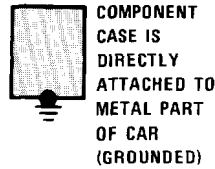
PART OF A COMPONENT SHOWN



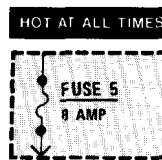
COMPONENT WITH SCREW TERMINALS



SOLID STATE (INCLUDES ONLY ELECTRONIC PARTS)

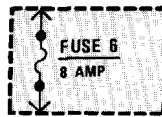


COMPONENT CASE IS DIRECTLY ATTACHED TO METAL PART OF CAR (GROUNDED)



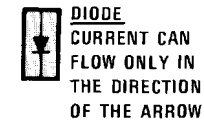
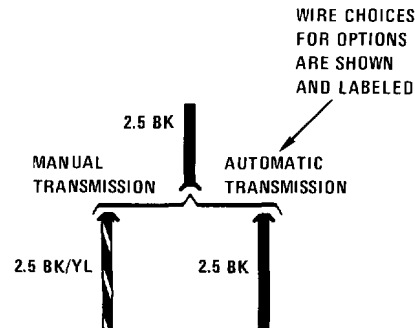
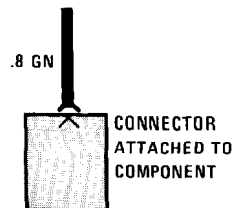
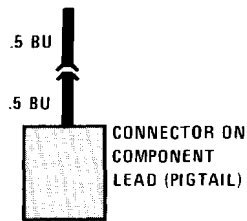
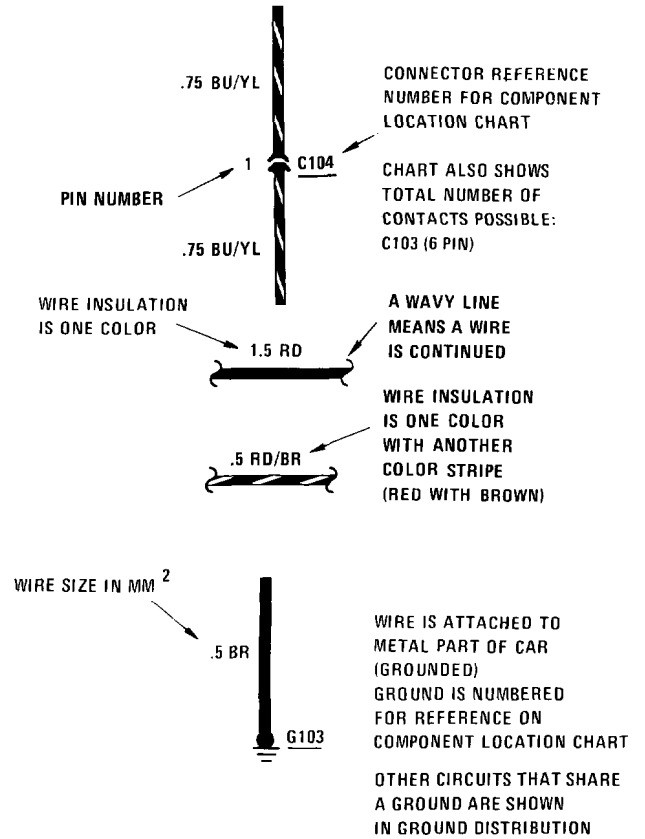
HOT AT ALL TIMES

INDICATES THAT FUSE 5 IS ALWAYS SUPPLIED WITH POWER



HOT IN RUN OR START

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

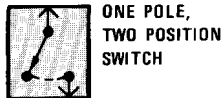


DIODE CURRENT CAN FLOW ONLY IN THE DIRECTION OF THE ARROW

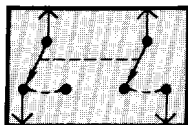
CIRCUIT REFERENCE -- A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT



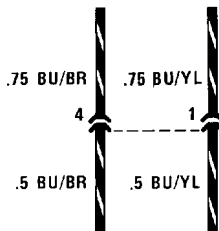
ACTIVE CHECK CONTROL



ONE POLE, TWO POSITION SWITCH



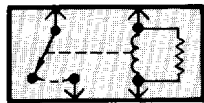
SWITCHES THAT MOVE TOGETHER  
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES



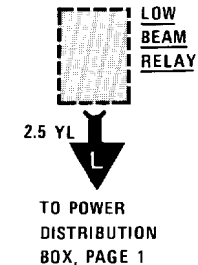
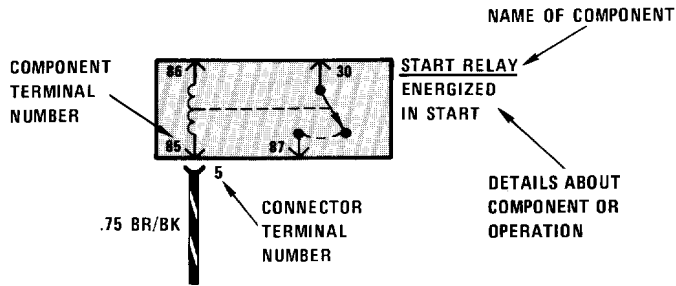
TWO CONNECTIONS (PINS) IN THE SAME CONNECTOR  
DASHED LINE SHOWS PARTS OF THE SAME CONNECTOR



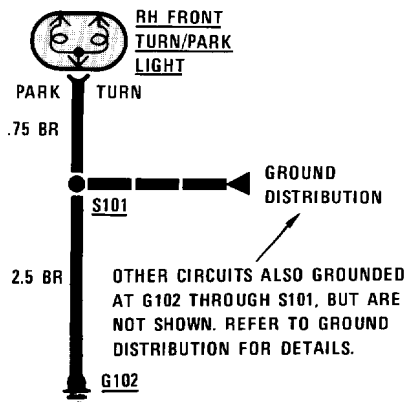
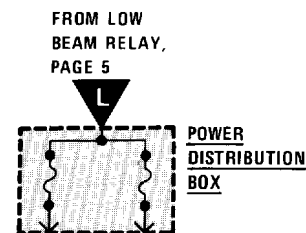
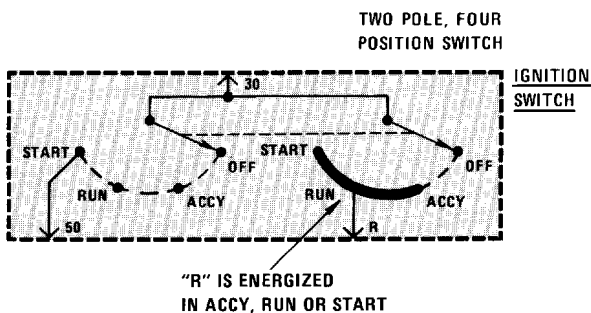
RELAY SHOWN WITH NO CURRENT FLOWING THROUGH COIL  
WHEN COIL IS ENERGIZED, SWITCH IS PULLED CLOSED



RELAY SHOWN WITH RESISTOR ACROSS COIL  
RESISTOR ACROSS COIL IS FOR NOISE SUPPRESSION



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



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

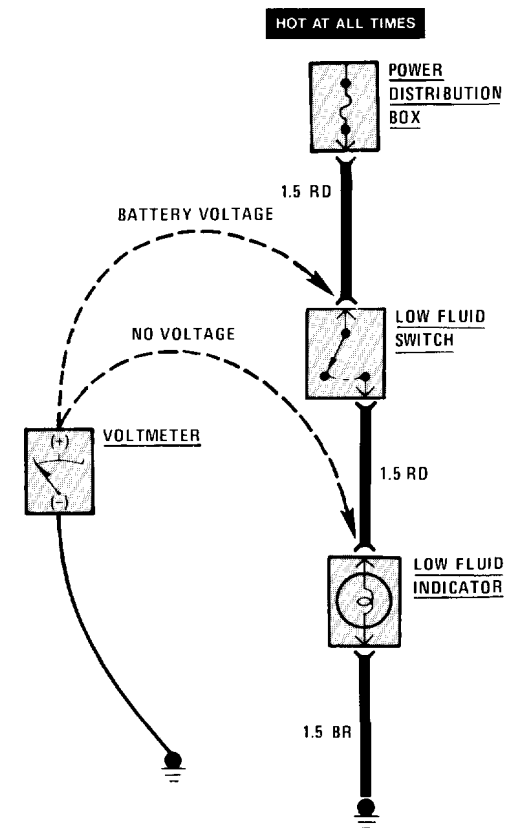
Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a **voltmeter** and/or **ohmmeter**. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit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



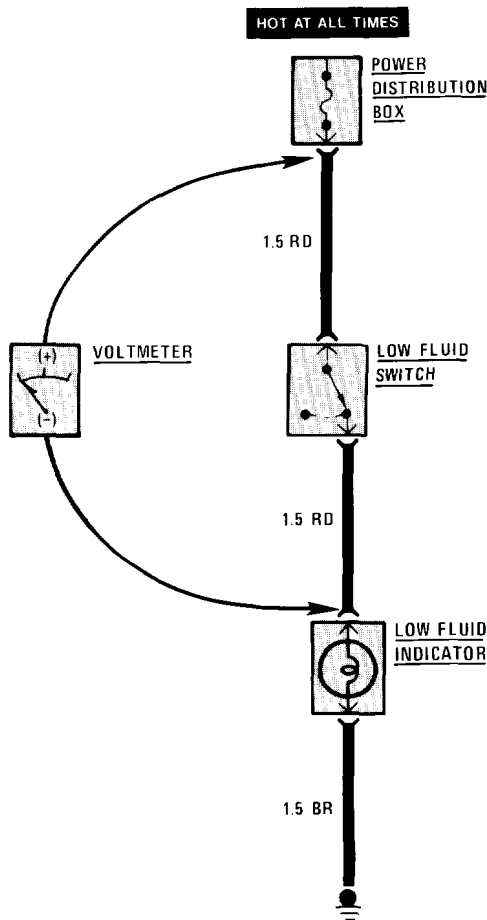
Voltage Test



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.

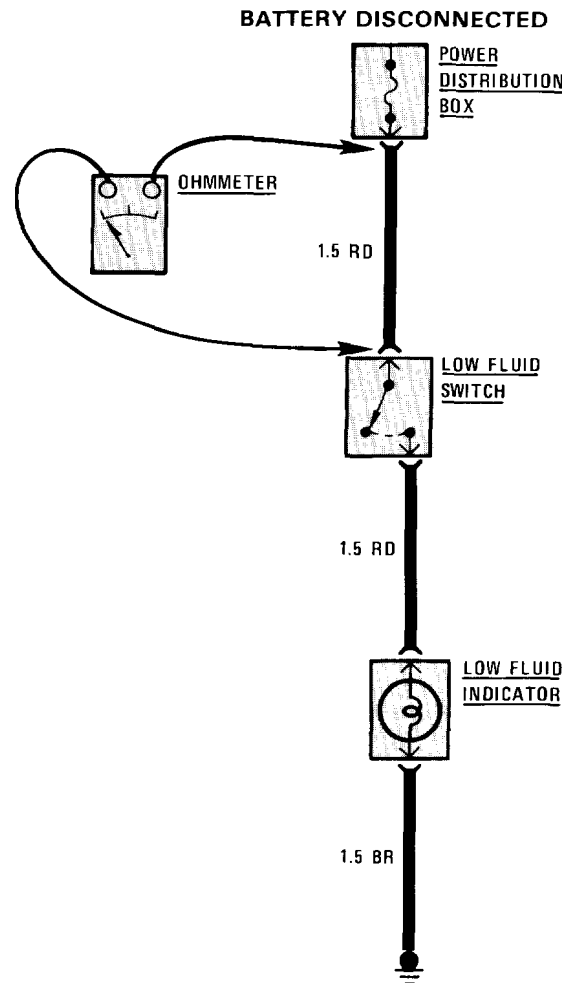
To test for voltage drop, connect the voltmeter leads to connectors at either end of the circuit's suspected problem area. The positive lead should be connected to the connector closest to the power source. The voltmeter will show the voltage drop between these two points.



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.

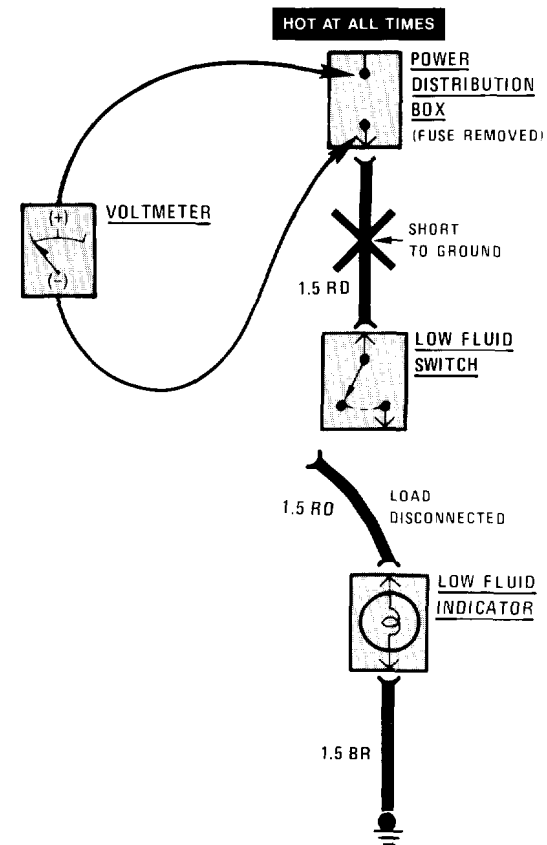


Continuity Test

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.



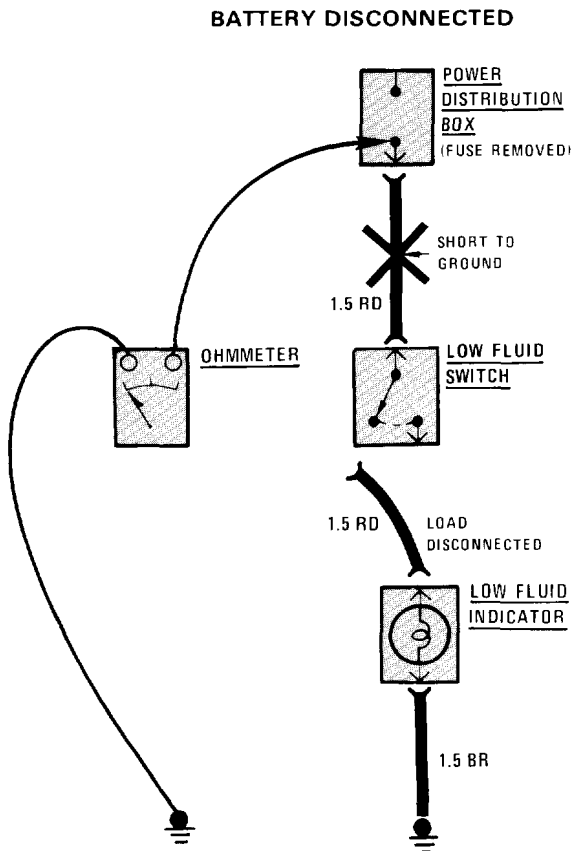
Short Test Using Voltmeter

## 8 SYSTEMATIC TROUBLESHOOTING

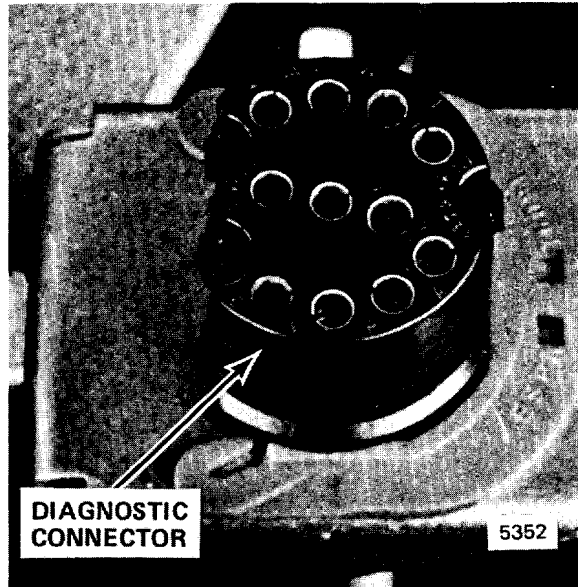
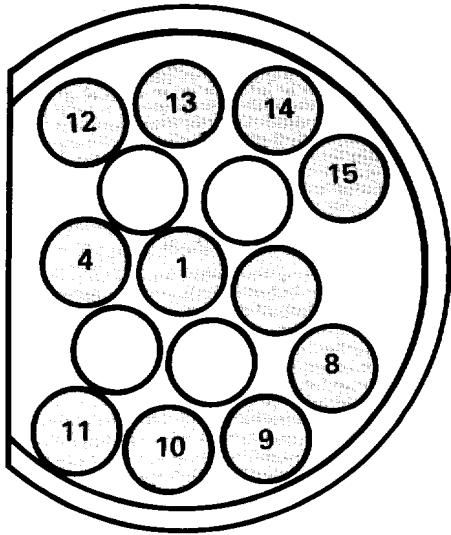
### Short Test Using Ohmmeter

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



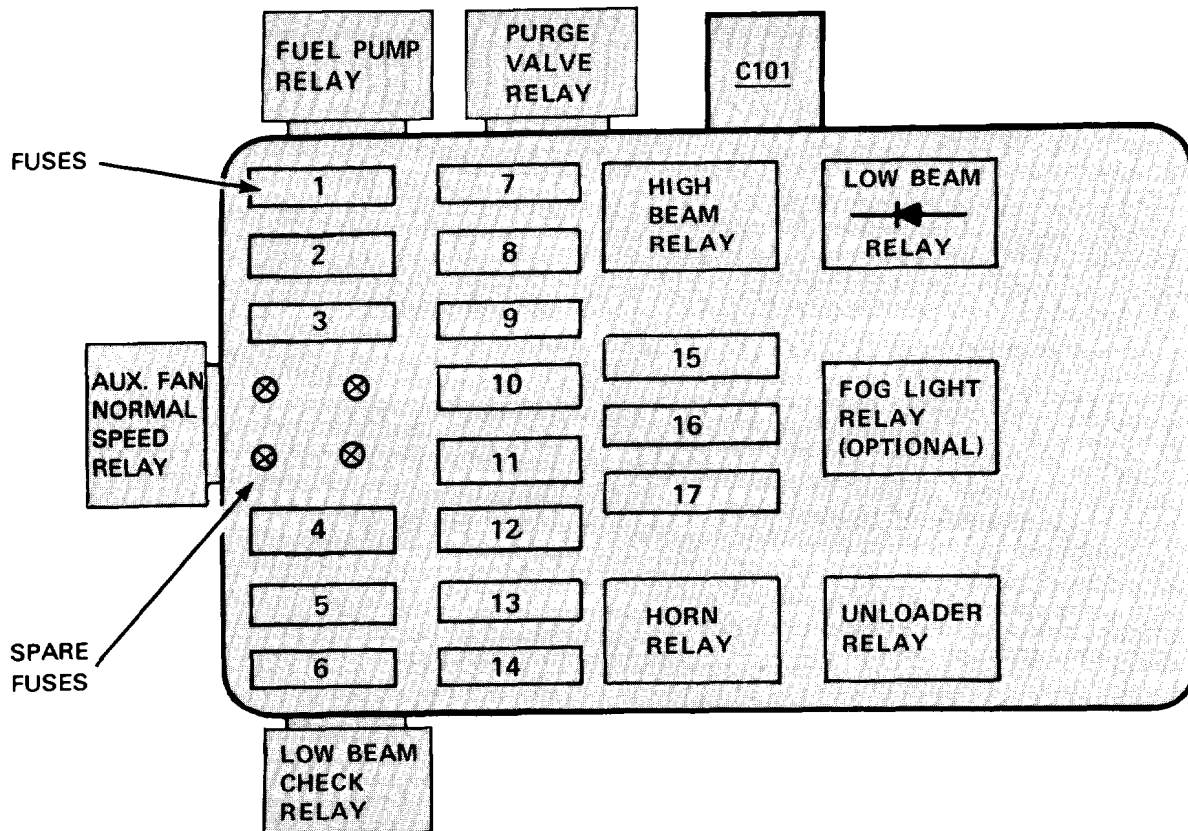
**DIAGNOSTIC CONNECTOR  
(TOP FRONT OF ENGINE)**

PIN	WIRE SIZE	WIRE COLOR	CIRCUIT AND COMPONENT CONNECTED
1	1.5	BR	Ground.
4	.5	BR/WT	Gauges/Warning Indicators, Coolant Temperature Sender.
8	.5	YL	Ignition, TDC Sensor.
9		SHIELD	Ignition, TDC Sensor.
10	.5	BK	Ignition, TDC Sensor.
11	2.5	BK/YL	Start, Start Signal.
12	.75	BU	Charge System, Alternator.
13	.75	BK	Ignition Coil
14	2.5	RD	Charge System, Alternator.
15	1.5	GN/YL	Fuel Delivery, Fuel Pump On.

# 102 POWER DISTRIBUTION BOX

## NOTE

On some cars, the position of the Fuel Pump and Purge Valve Relays may be the opposite of what is shown. Check relay wire colors for positive identification.

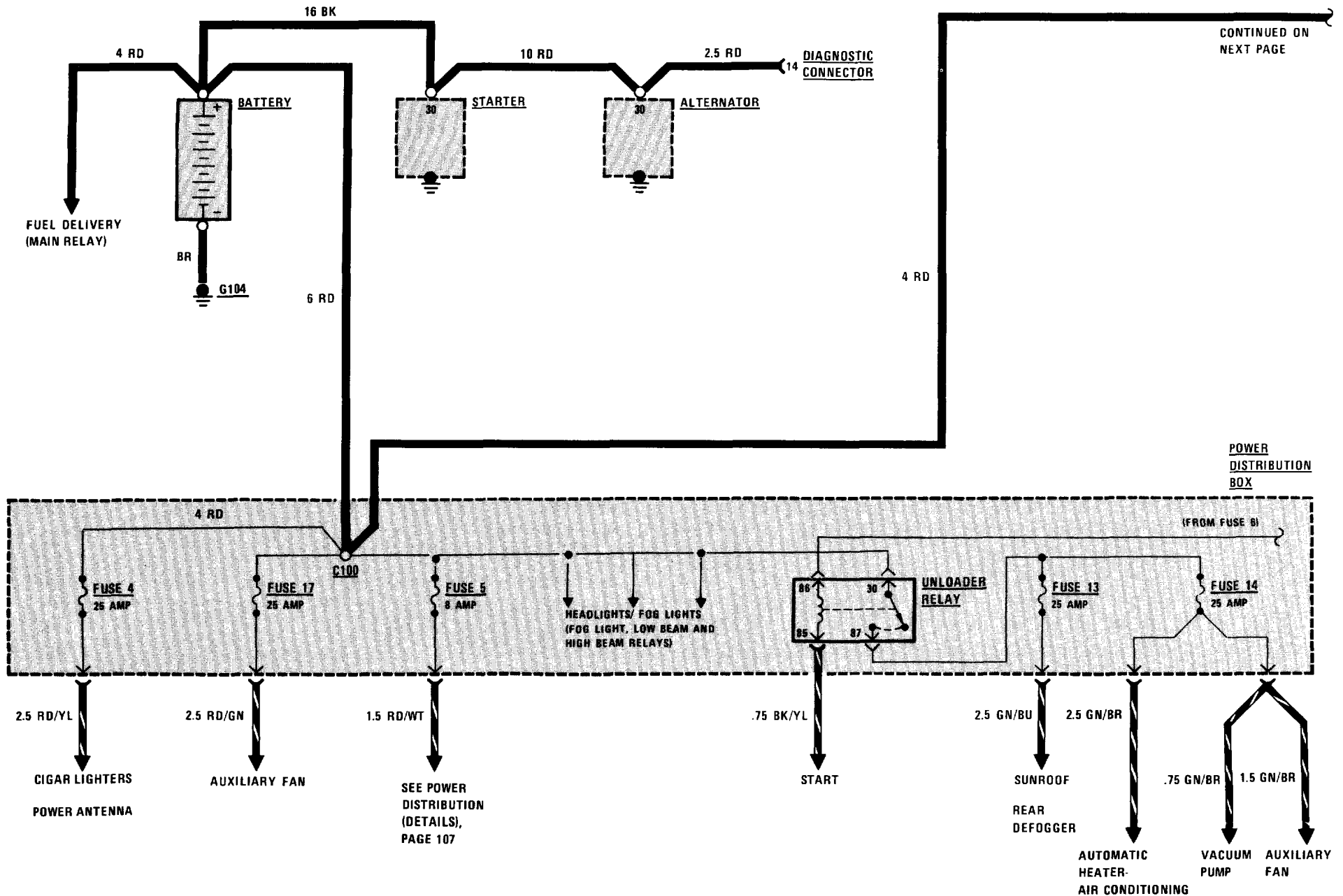


FUSE NO.	SIZE/ COLOR	CIRCUITS PROTECTED	SCHEMATIC PAGE
1	16A(RD)	Fuel Delivery/Evaporative Control; Idle Speed Control.	110 112
2	8A(WT)	Headlights (RH Low Beam).	127
3	8A(WT)	Headlights (LH Low Beam).	127
4	25(BU)	Cigar Lighters.	137
5	8A(WT)	Active Check Control; Auto-Charging Flashlight; Central Locking; Gauges; Glove Box Light; Heated Door Lock; Ignition Key Warning/Seatbelt Warning; Interior Lights; Lights: Turn/Hazard Warning; On-Board Computer; Radio/Power Antenna; Trunk Light.	123 137 142 118 137 138 115 125 128 116 145 131
6	8A(WT)	Active Check Control; Backup Lights/Transmission Range Lights; Brake Lining Warning; Cruise Control; Dash Lights; Gauges; Idle Speed Control; Interior Lights; Power Mirrors; Power Windows; Seatbelt Warning; Speedometer; Warning Indicators.	123 136 124 133 134 118 112 125 144 140 115 118 118

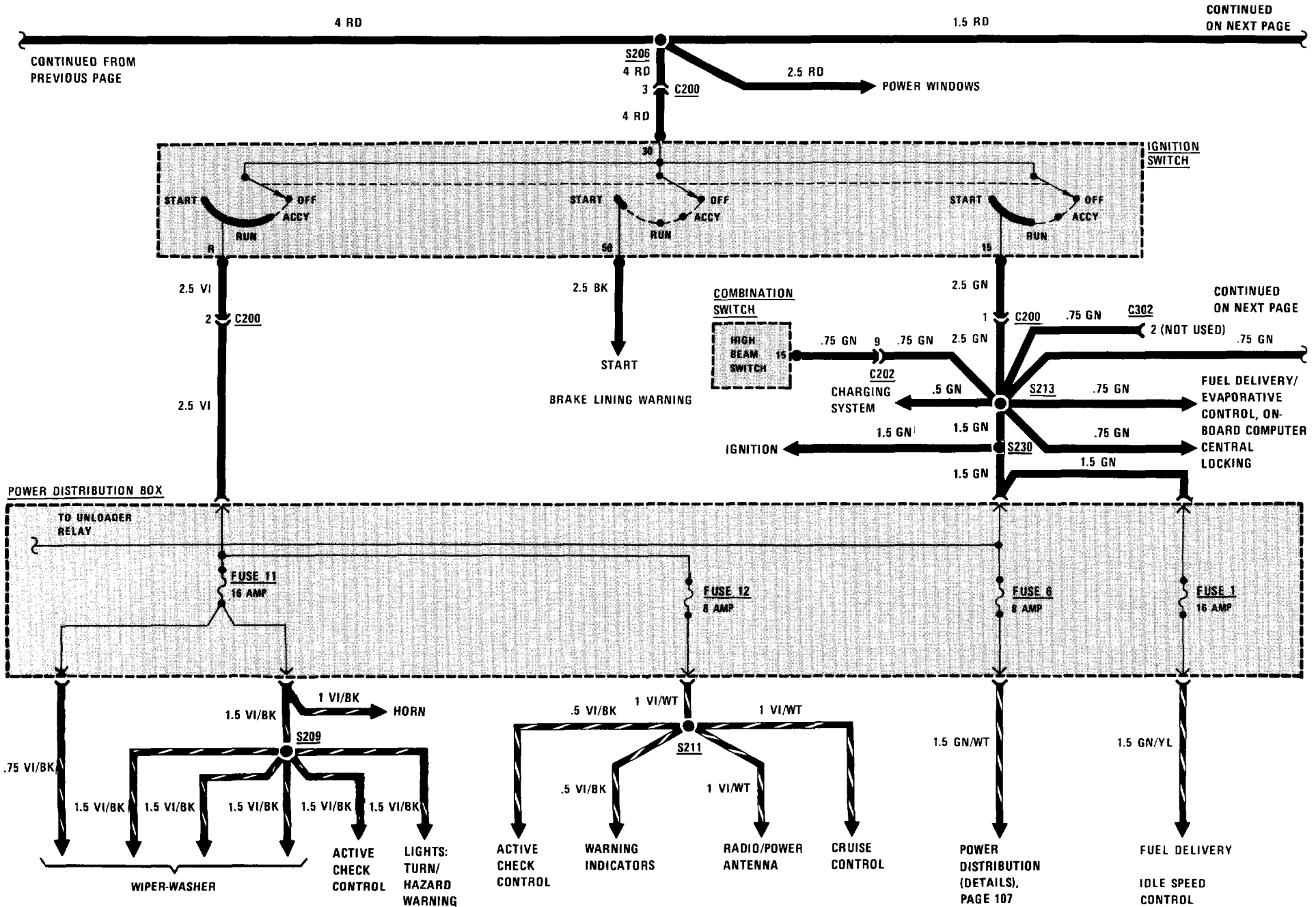
FUSE NO.	SIZE/ COLOR	CIRCUITS PROTECTED	SCHEMATIC PAGE
7	8A(WT)	Headlights (LH, RH High Beams)	127
8	8A(WT)	Headlights (LH, RH High Beams)	127
9	8A(WT)	Active Check Control; Dash Lights; Lights: Front Park/Tail/Underhood; Lights: Rear Marker/License.	122 134 130 131
10	8A(WT)	Active Check Control; Lights: Front Park/Tail.	122 130
11	16A(RD)	Active Check Control; Horns; Lights: Turn/Hazard Warning; Wiper/Washer.	121 138 128 114
12	8A(WT)	Active Check Control; Radio/Power Antenna; Stoptlights/Cruise Control; Warning Indicators.	122 145 132 120
13	25A(BU)	Rear Defogger/Sunroof.	139
14	25A(BU)	Automatic Heater-Air Conditioner; Auxiliary Fan; Vacuum Pump.	147 146 146
15	8A(WT)	Fog Lights (RH).	127
16	8A(WT)	Fog Lights (LH).	127
17	25A(BU)	Auxiliary Fan.	146
Power Window Circuit Breaker	25A	Power Windows.	140
In-Line Radio	1A	Radio.	145
Auxiliary Fan Fuses (2)	25A	Auxiliary Fan.	146

# 104 POWER DISTRIBUTION

(For Component Locations See Page 209)



(For Component Locations See Page 209)



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CONTINUED ON NEXT PAGE

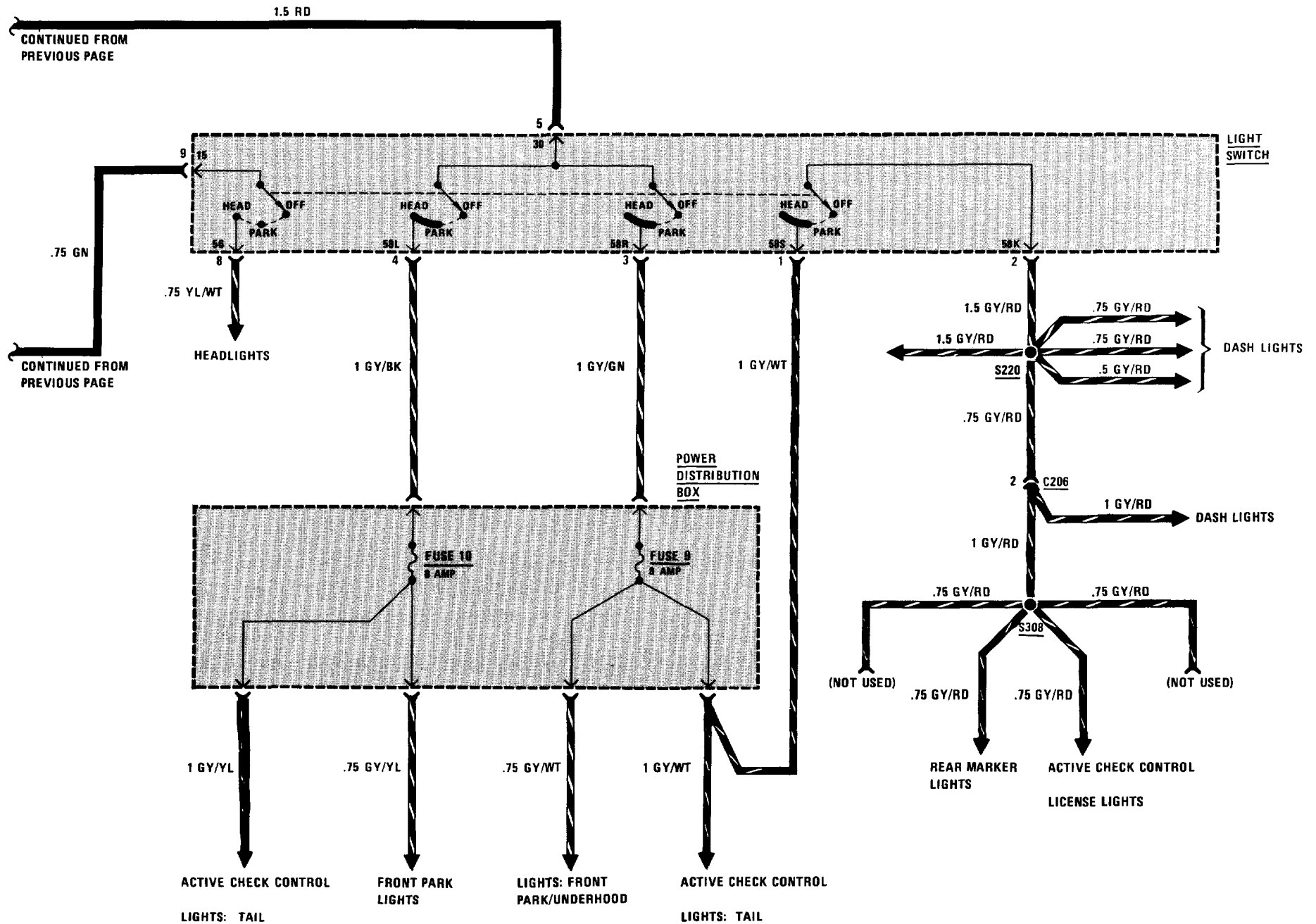
CONTINUED ON NEXT PAGE

POWER DISTRIBUTION BOX

POWER DISTRIBUTION (DETAILS), PAGE 107

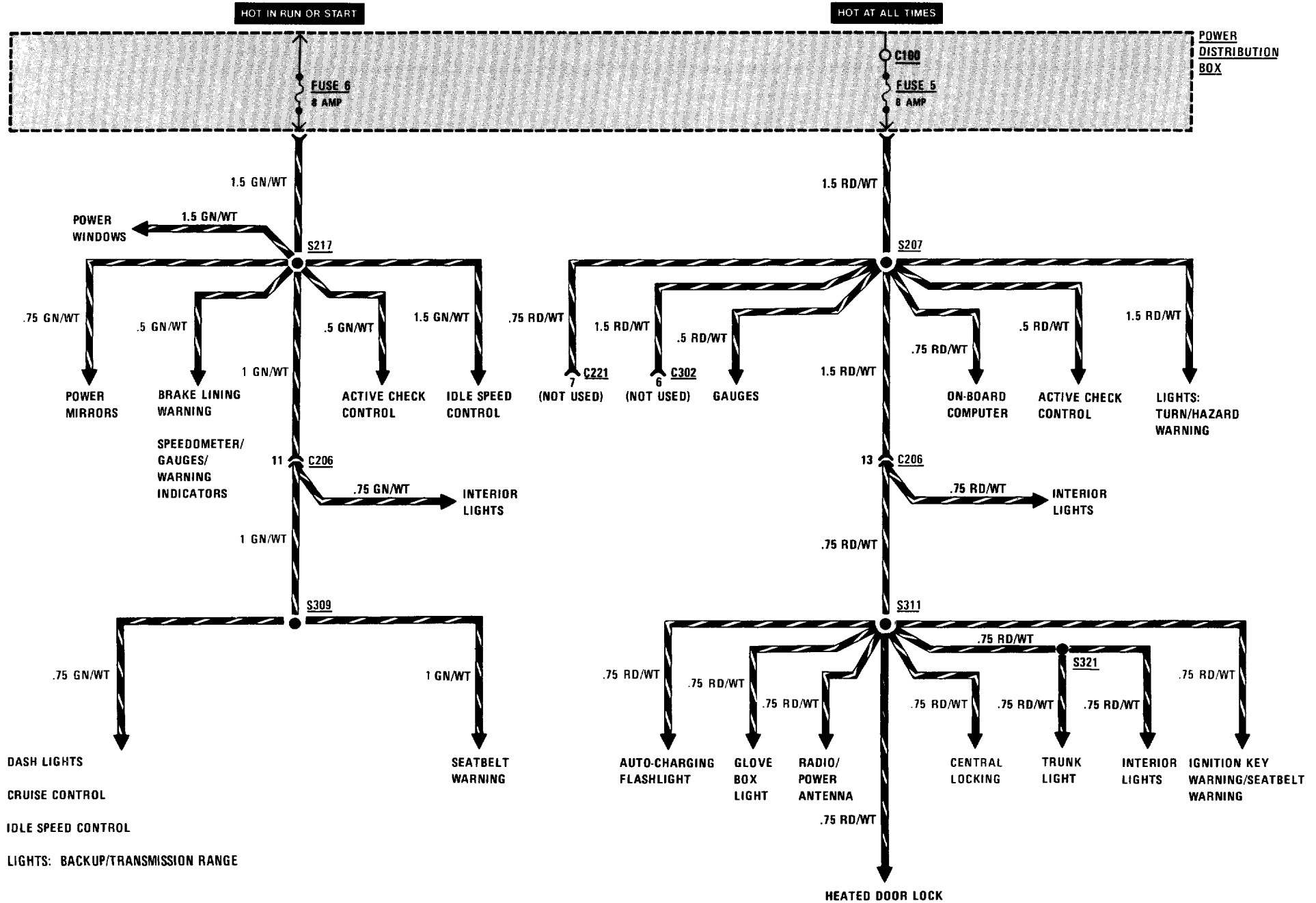
# 106 POWER DISTRIBUTION

(For Component Locations See Page 209)



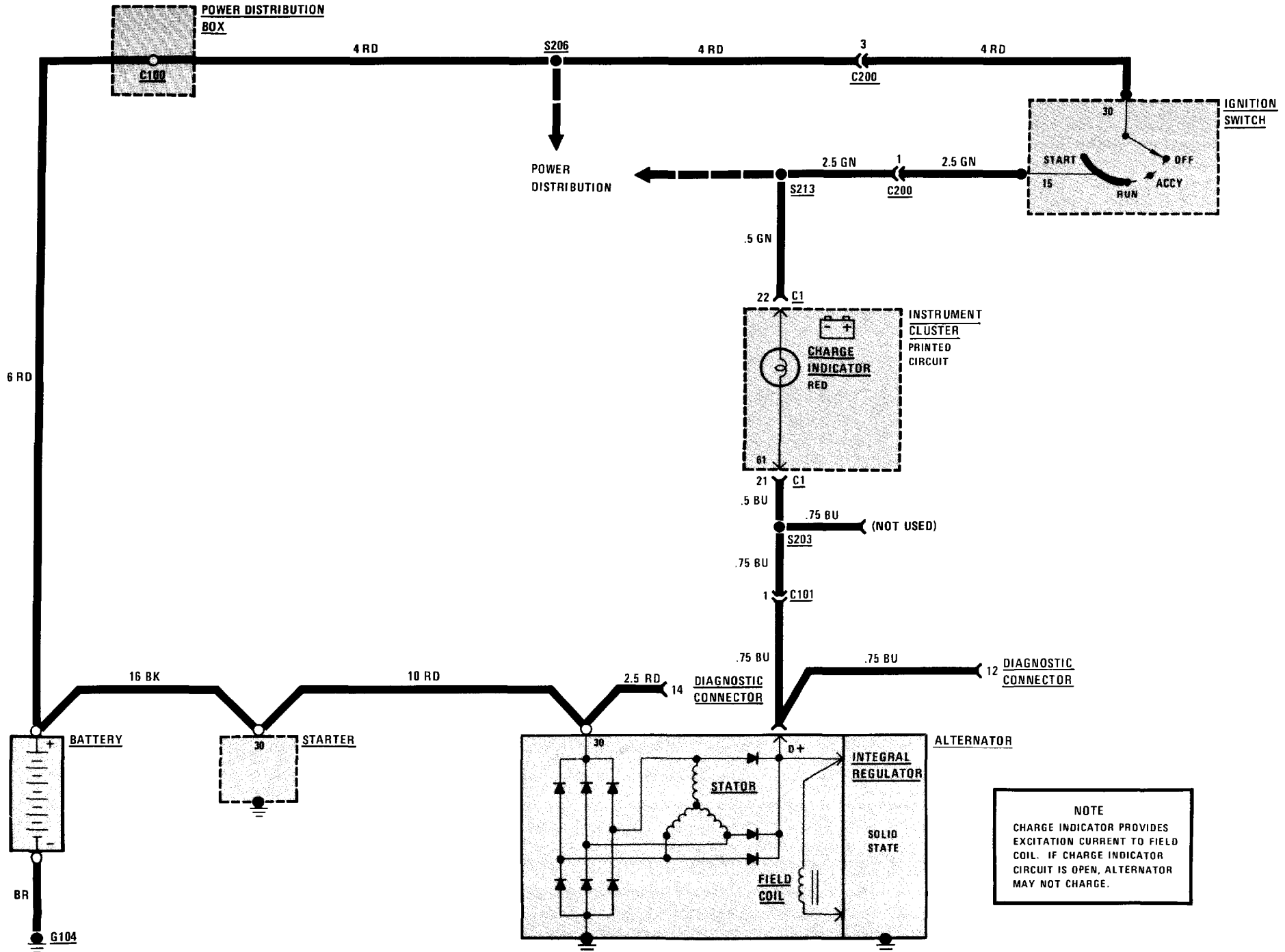


(For Component Locations See Page 209)



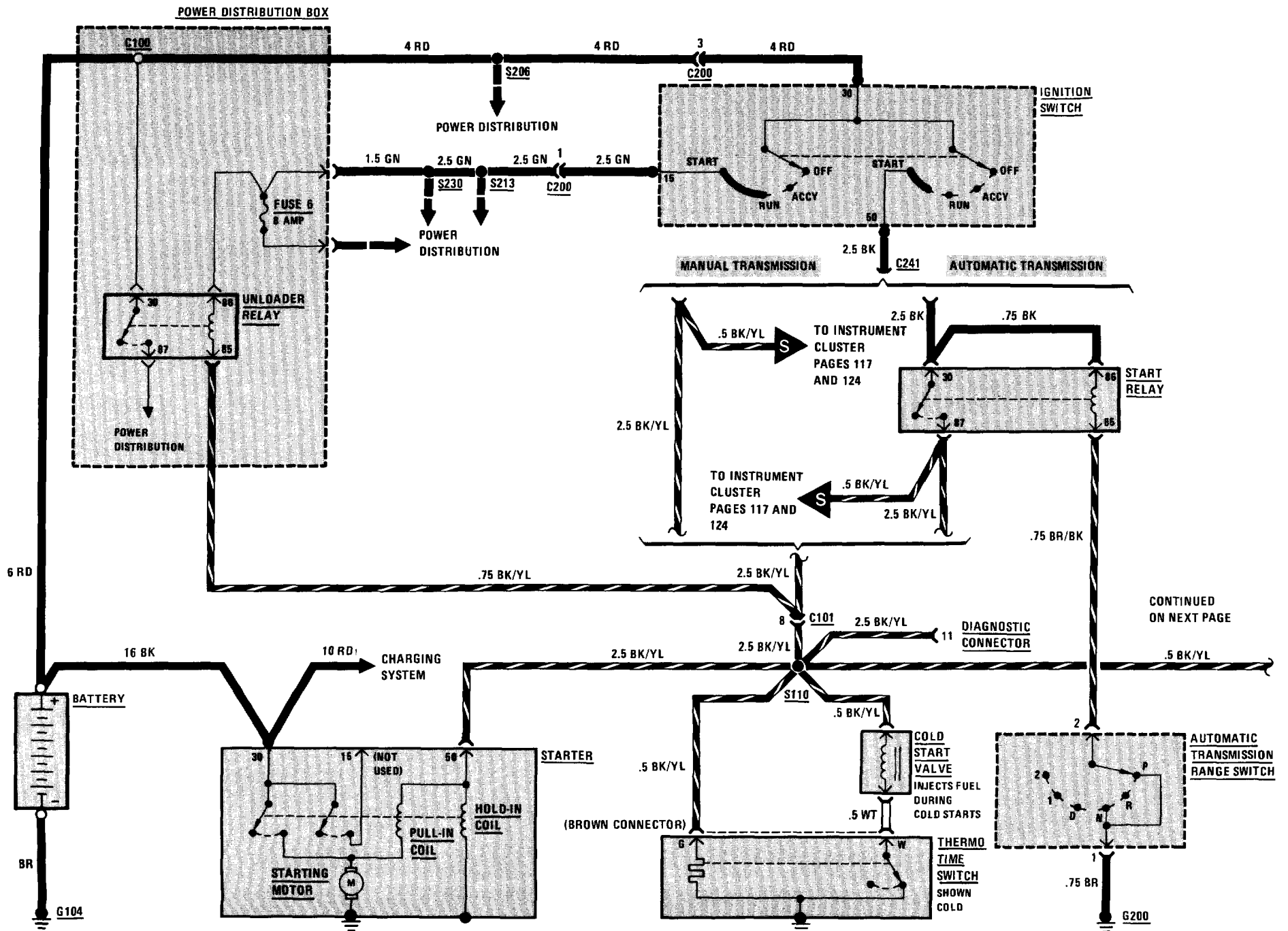
# 108 CHARGING SYSTEM

(For Component Locations See Page 203)



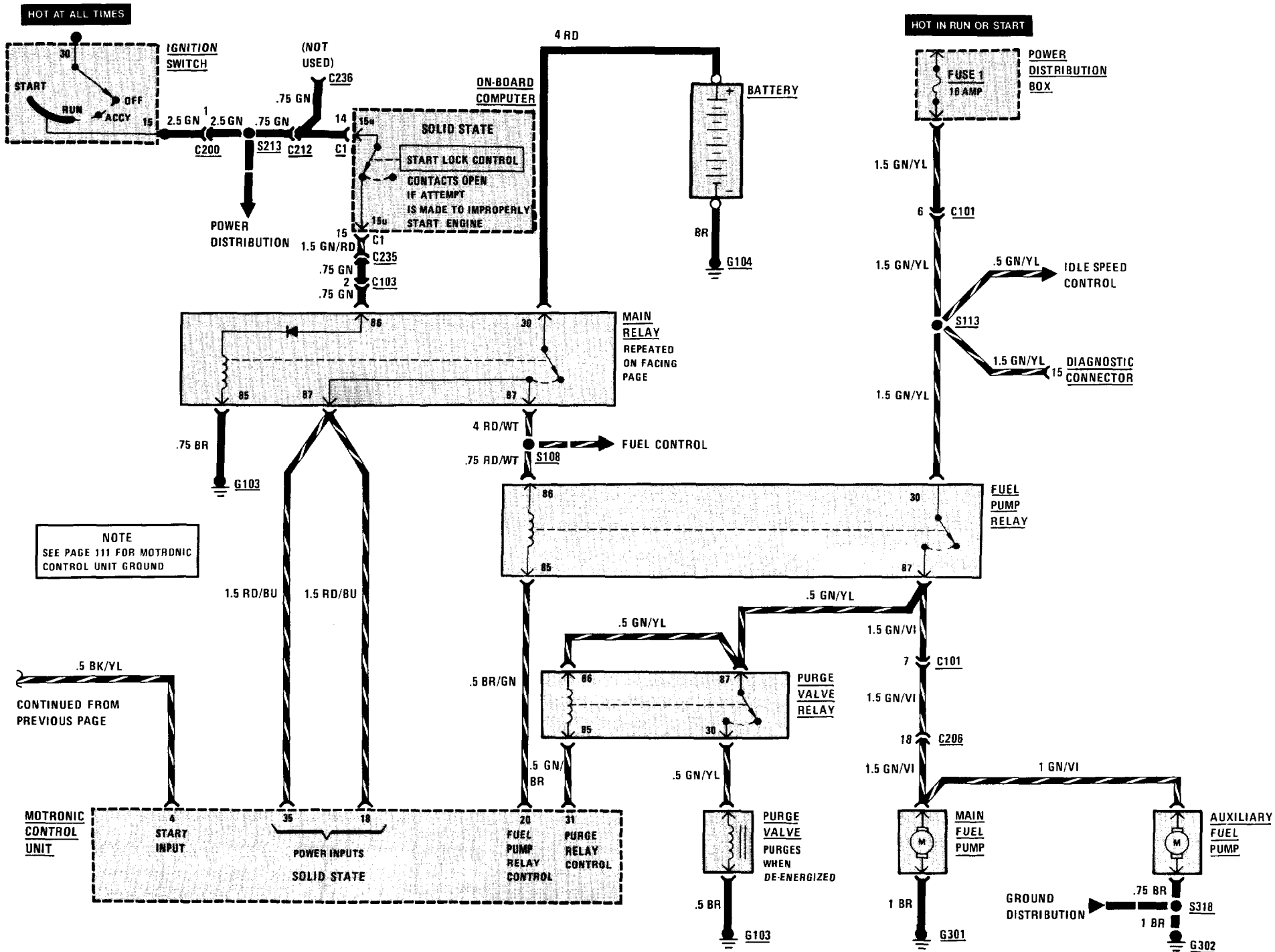
**NOTE**  
 CHARGE INDICATOR PROVIDES  
 EXCITATION CURRENT TO FIELD  
 COIL. IF CHARGE INDICATOR  
 CIRCUIT IS OPEN, ALTERNATOR  
 MAY NOT CHARGE.

(For Component Locations See Page 211)

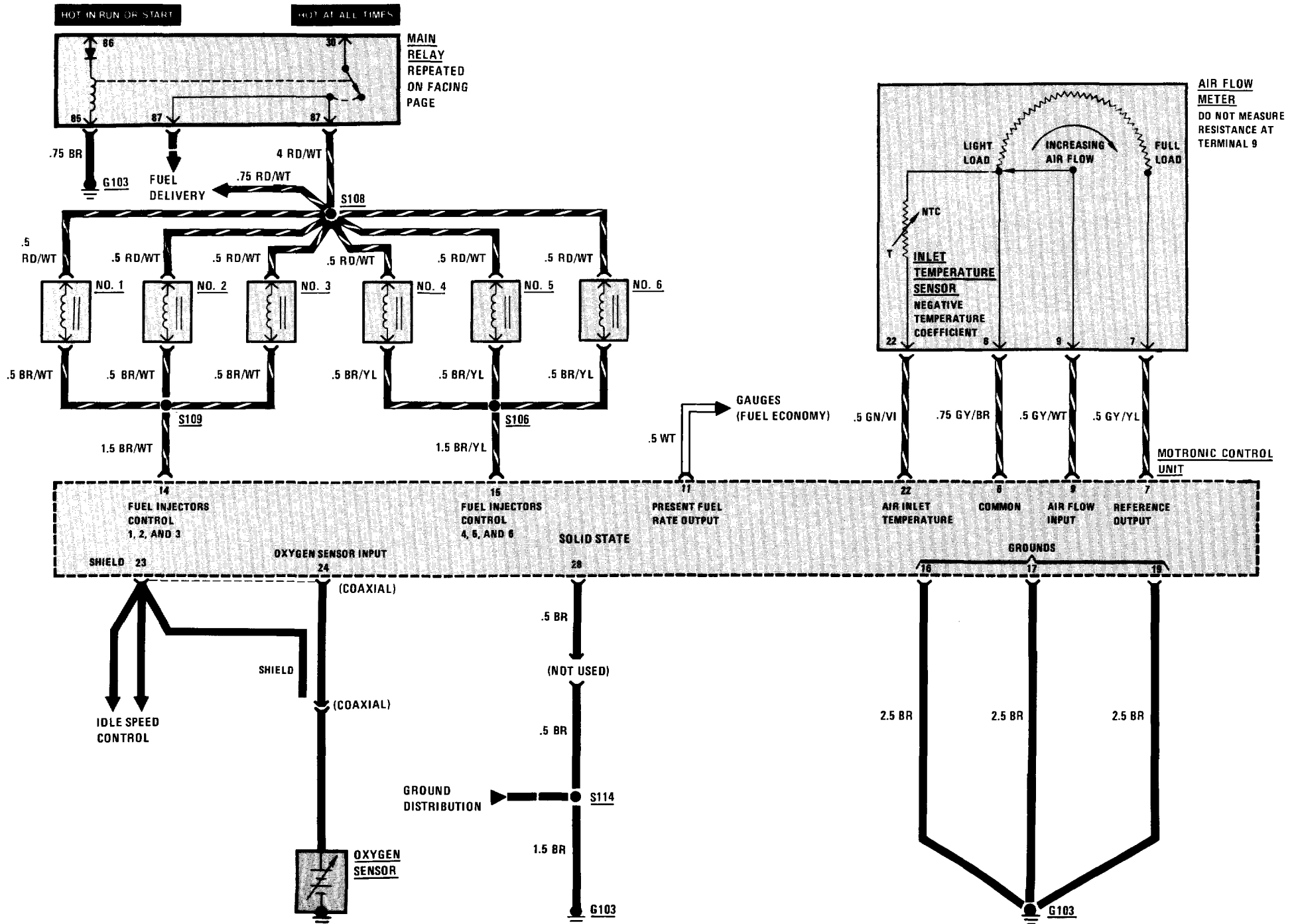


# 110 FUEL DELIVERY/EVAPORATIVE CONTROL

(For Component Locations See Page 204)

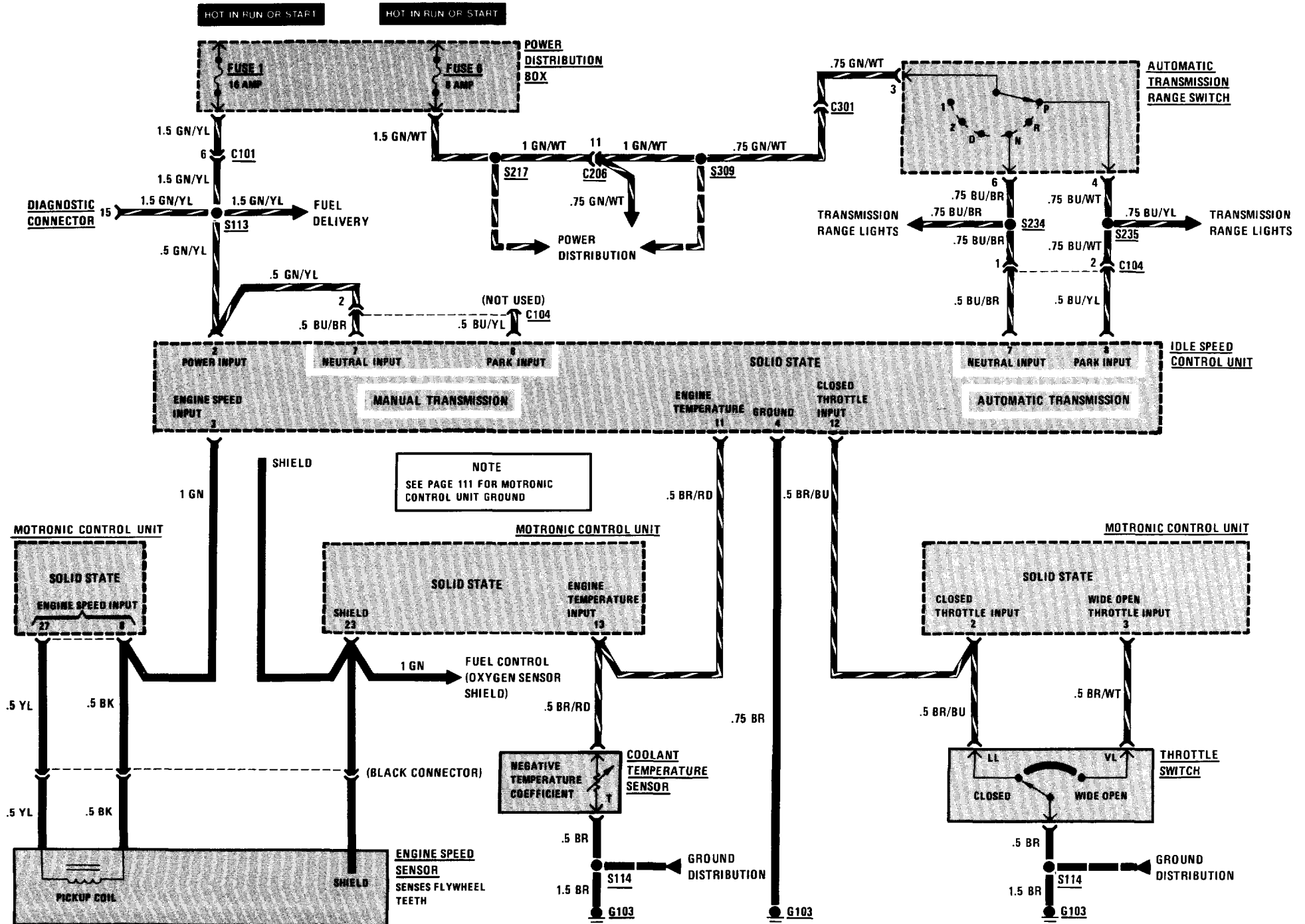


(For Component Locations See Page 204)

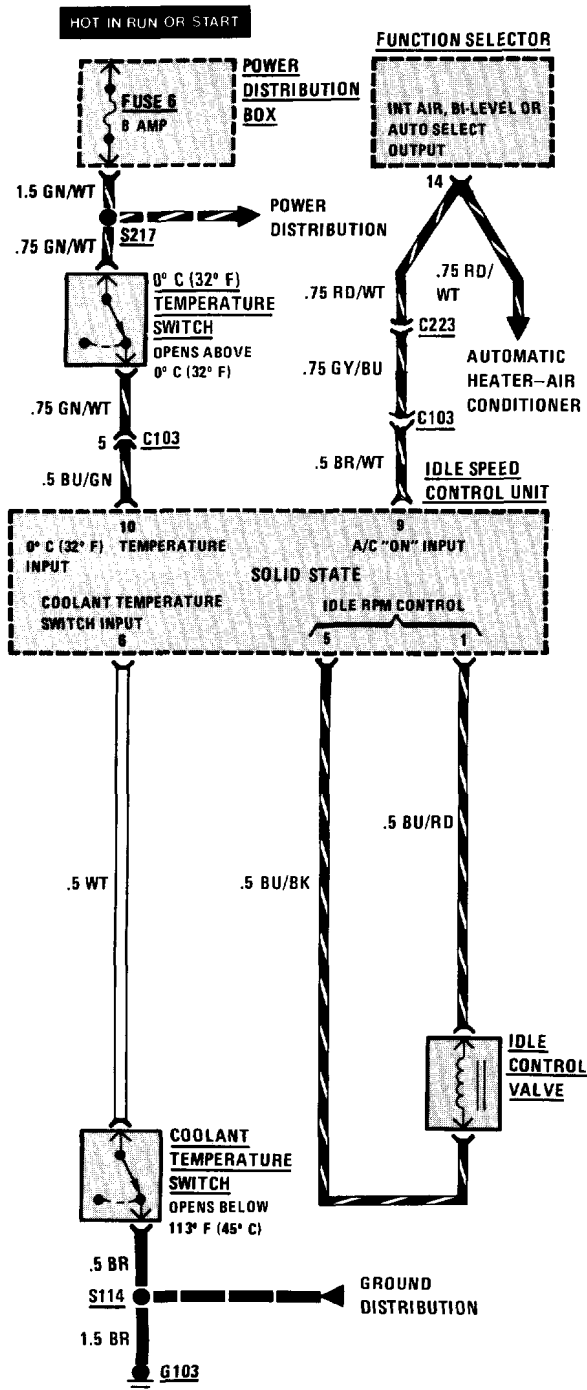


# 112 IDLE SPEED CONTROL

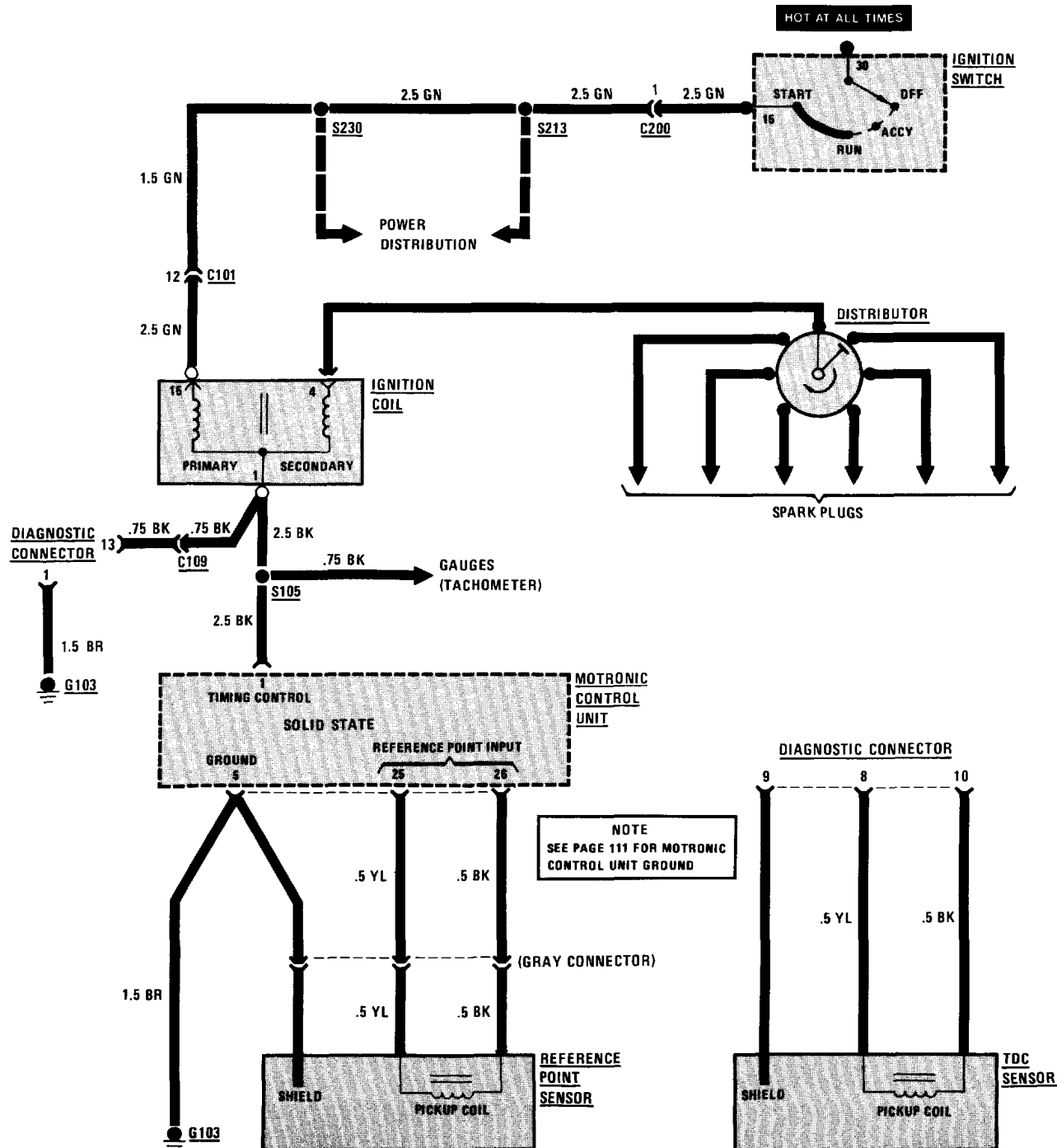
(For Component Locations See Page 206)



(For Component Locations See Page 206)

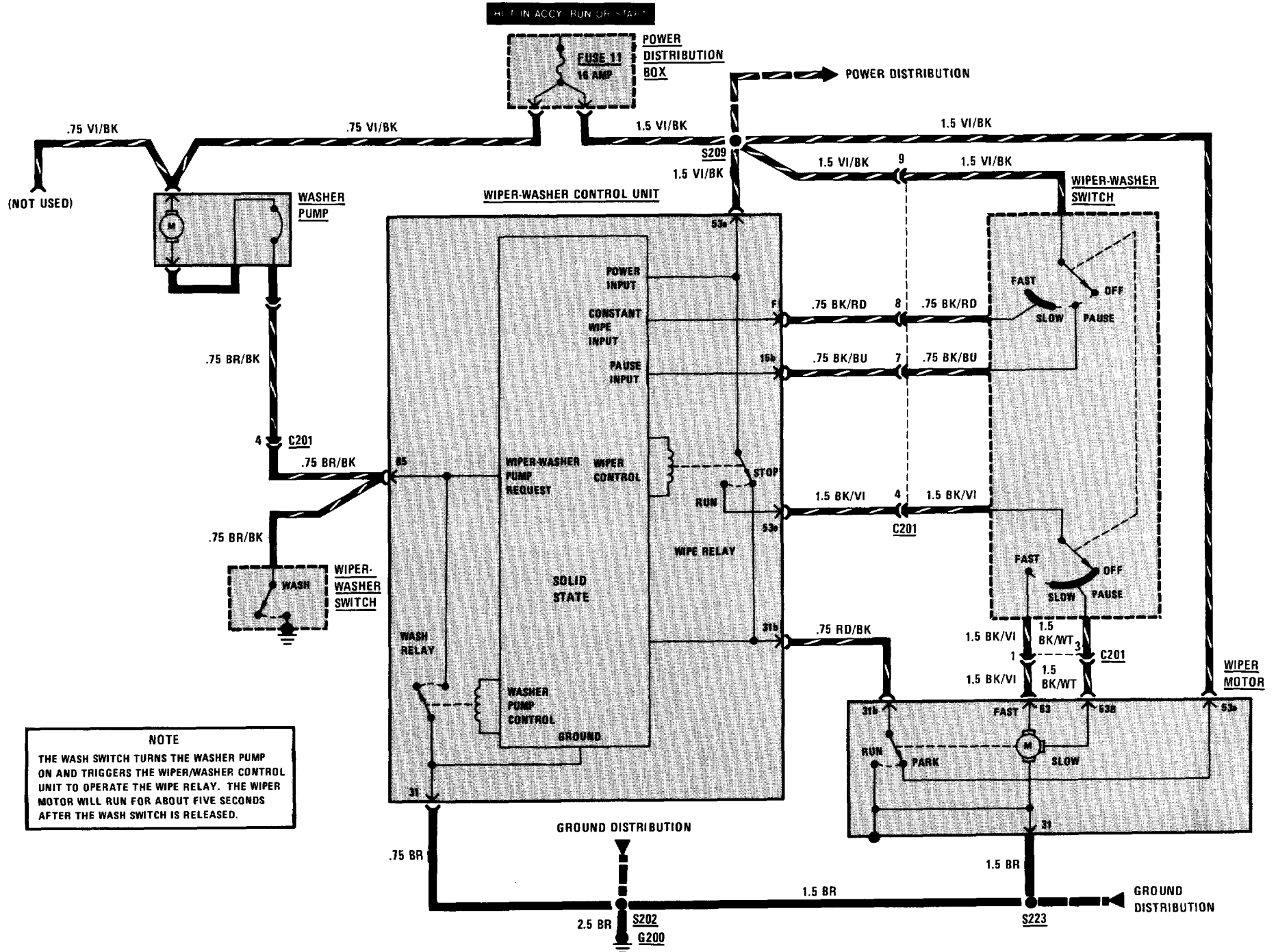


(For Component Locations See Page 206)



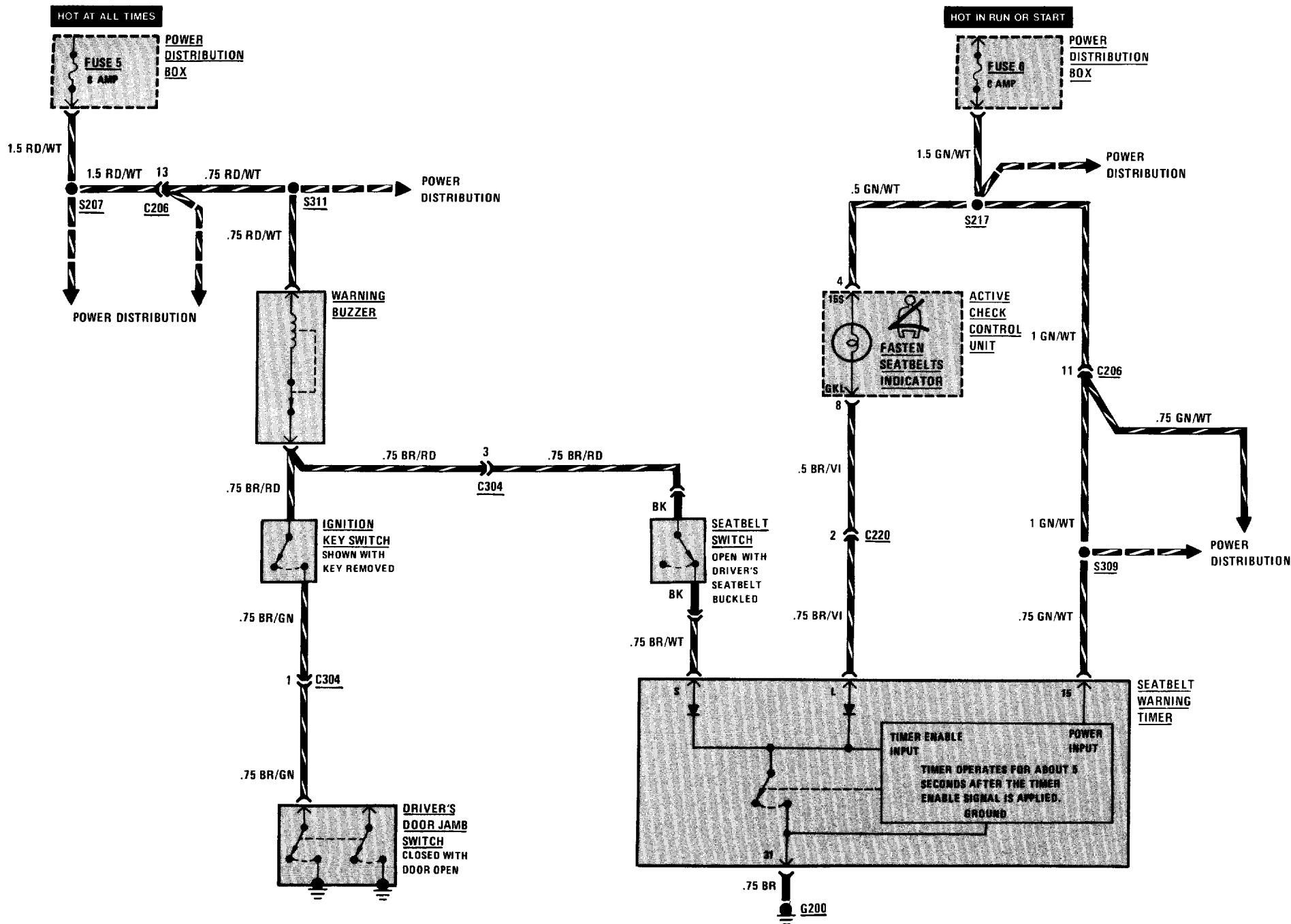
# 114 WIPER-WASHER

(For Component Locations See Page 212)



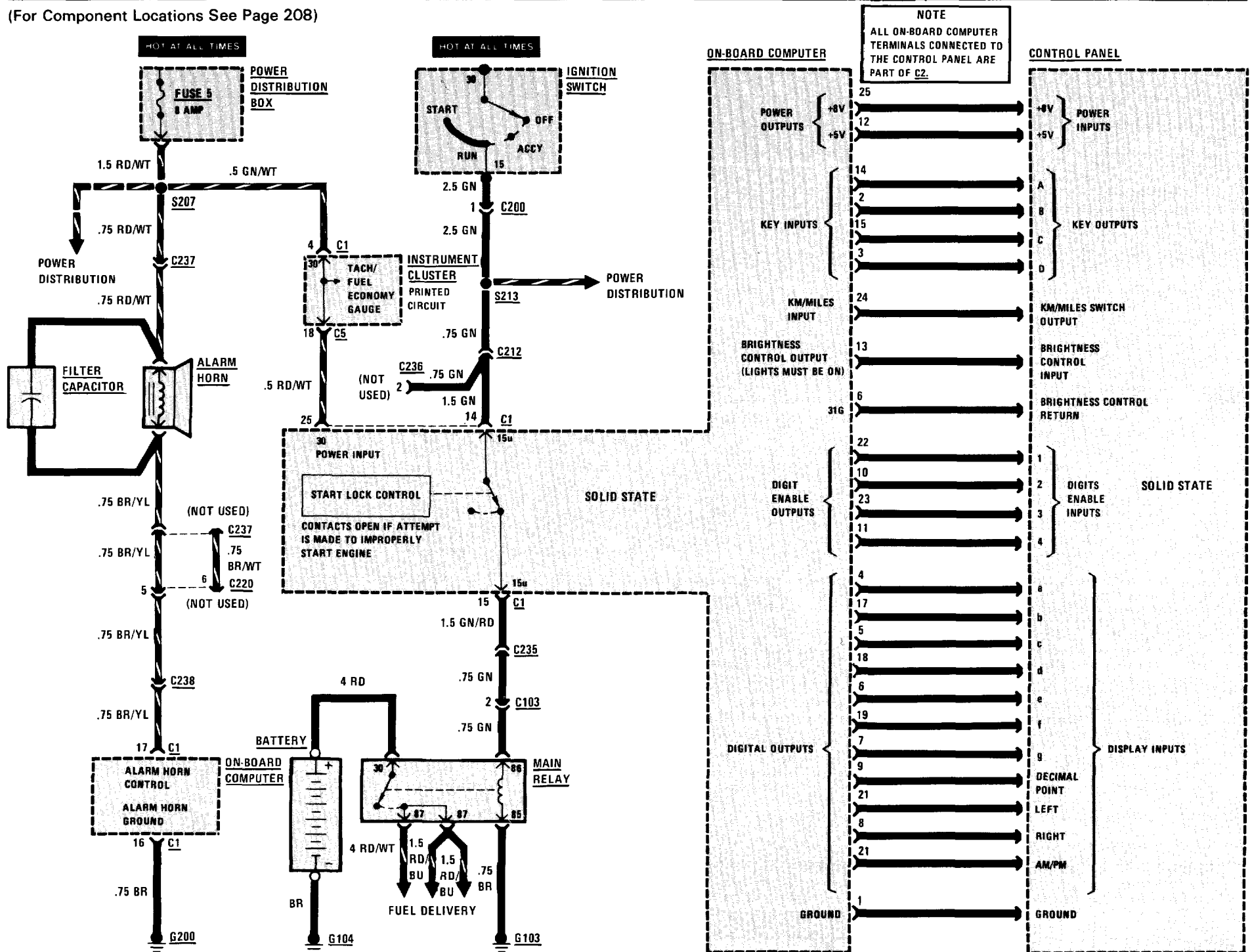


(For Component Locations See Page 207)

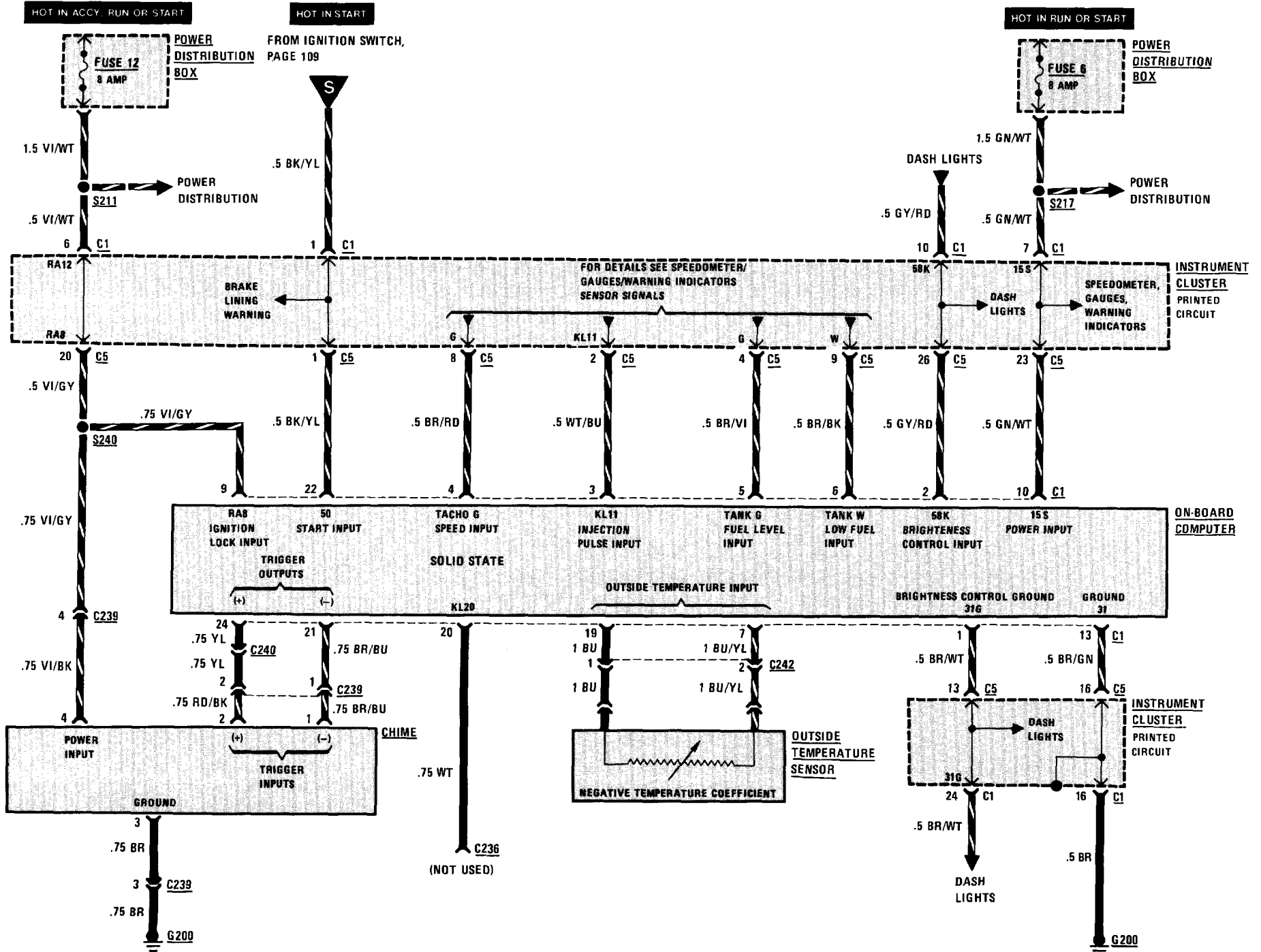


# 116 ON-BOARD COMPUTER

(For Component Locations See Page 208)

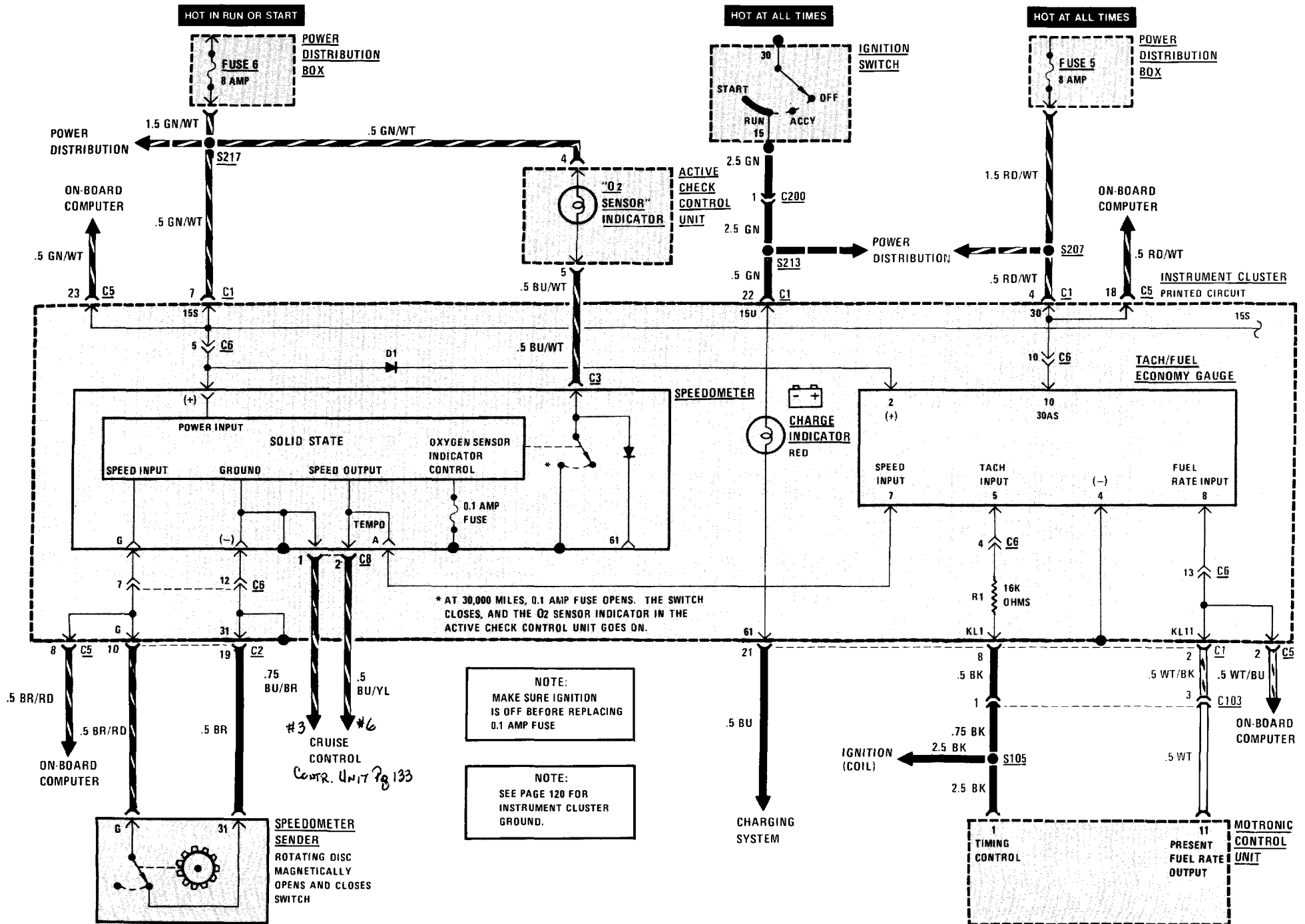


(For Component Locations See Page 208)

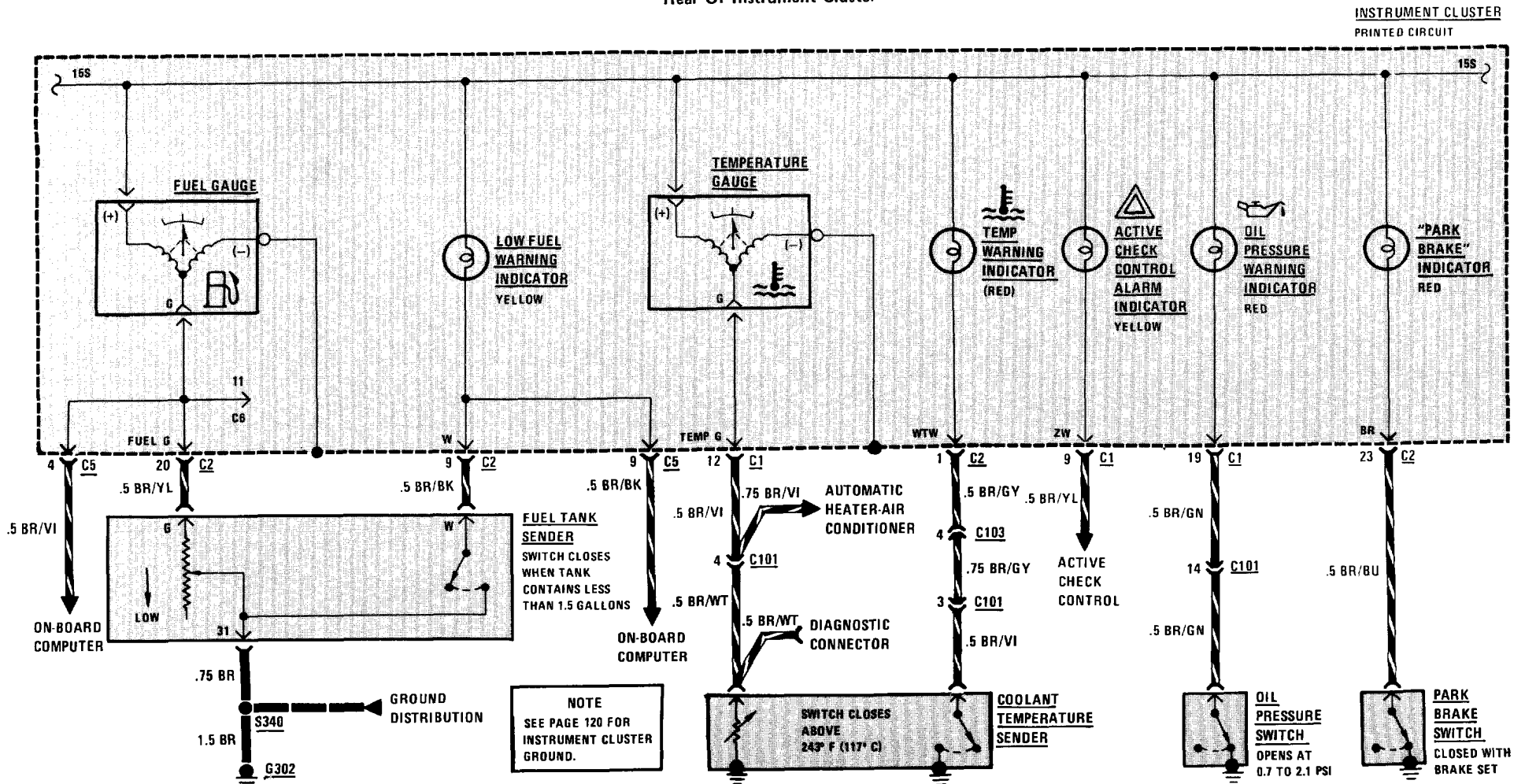
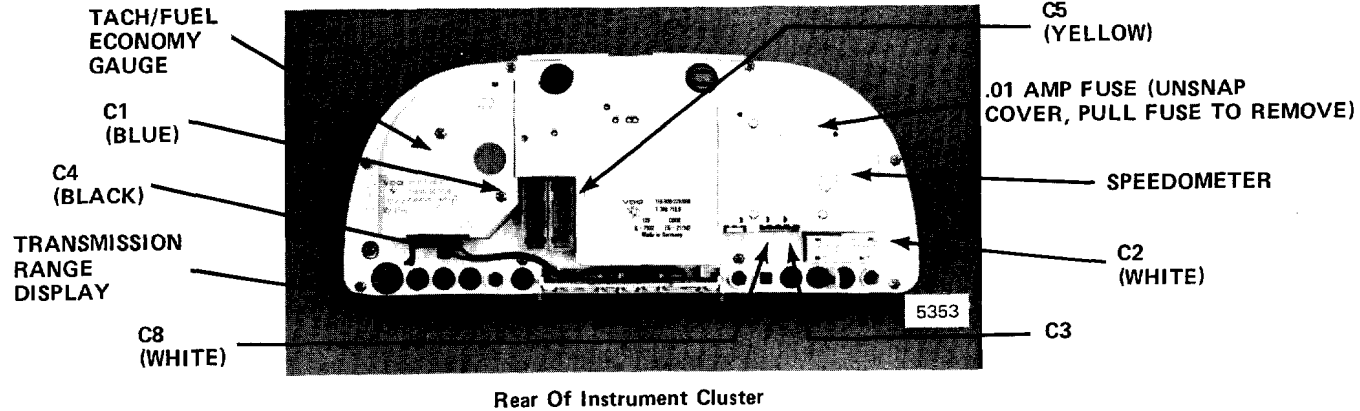


# 118 SPEEDOMETER/GAUGES/WARNING INDICATORS

(For Component Locations See Page 211)

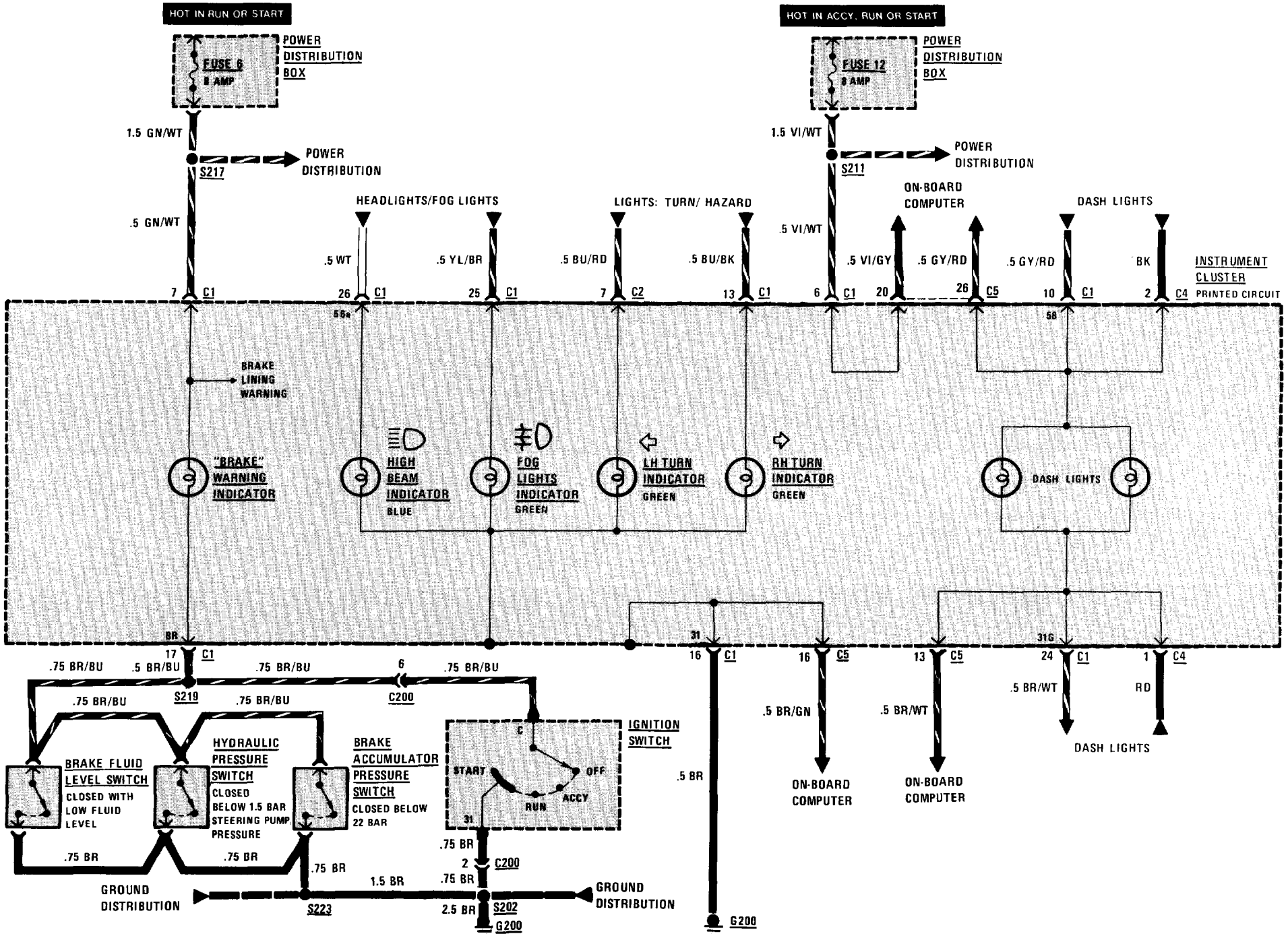


(For Component Locations See Page 211)



# 120 WARNING INDICATORS

(For Component Locations See Page 211)



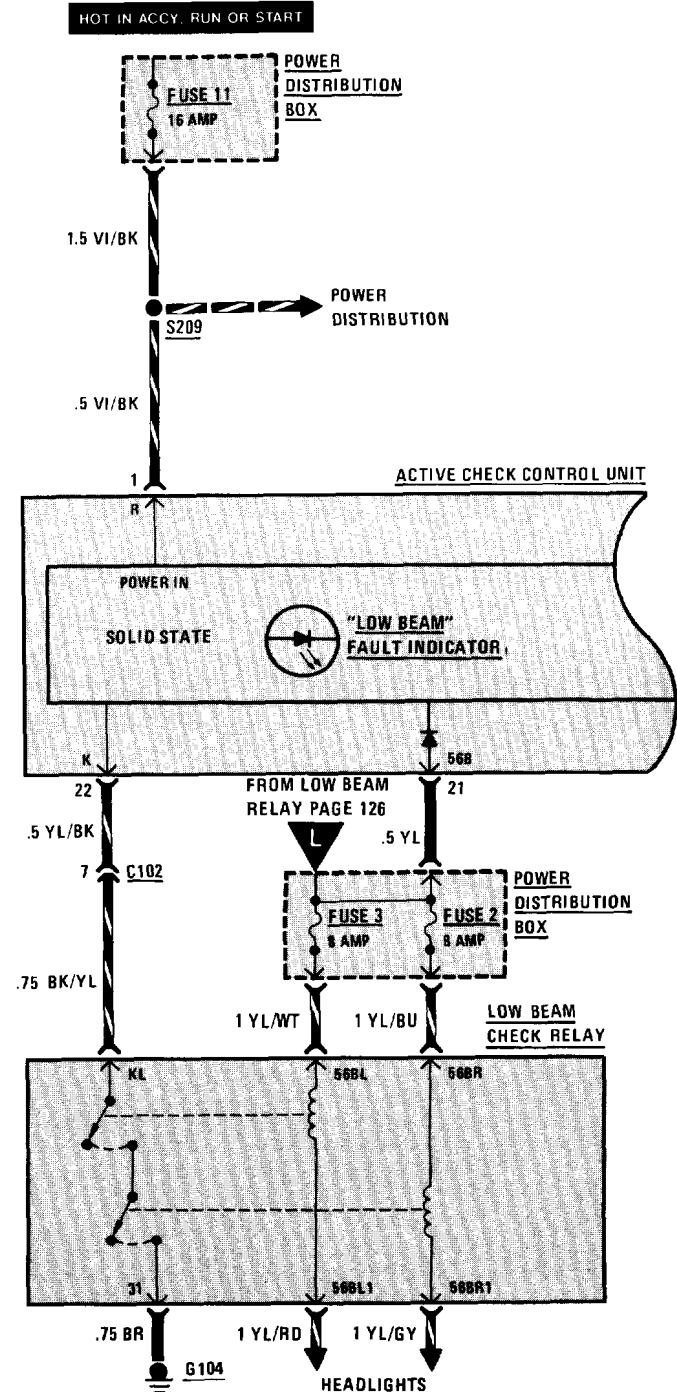
(For Component Locations See Page 201)

## ACTIVE CHECK CONTROL

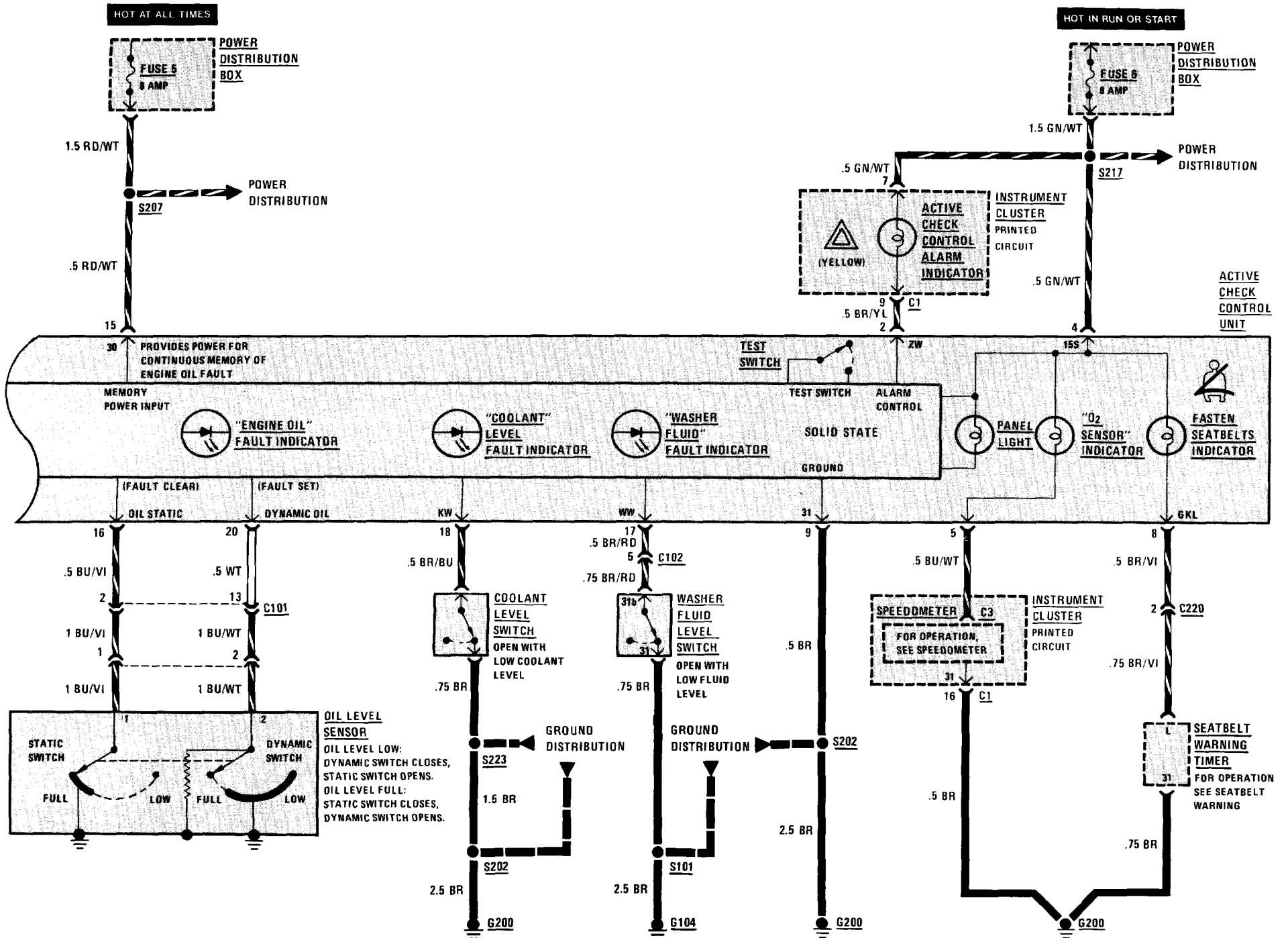
1. When the Ignition Switch is initially placed in "Run," the Active Check Control Alarm Indicator flashes, and the Active Check Control Unit Brake Light LED and panel light illuminate for test purposes. Depressing the brake pedal clears the display.
2. When the Ignition Switch is placed in "Run," fault 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.
3. When a fault occurs, the alarm indicator flashes, the appropriate LED fault 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.
4. To test the unit, depress the test button. The LED fault indicators and the panel light should go on.



Figure 1 - Active Check Control Unit  
(Dash, Left Of Steering Column)



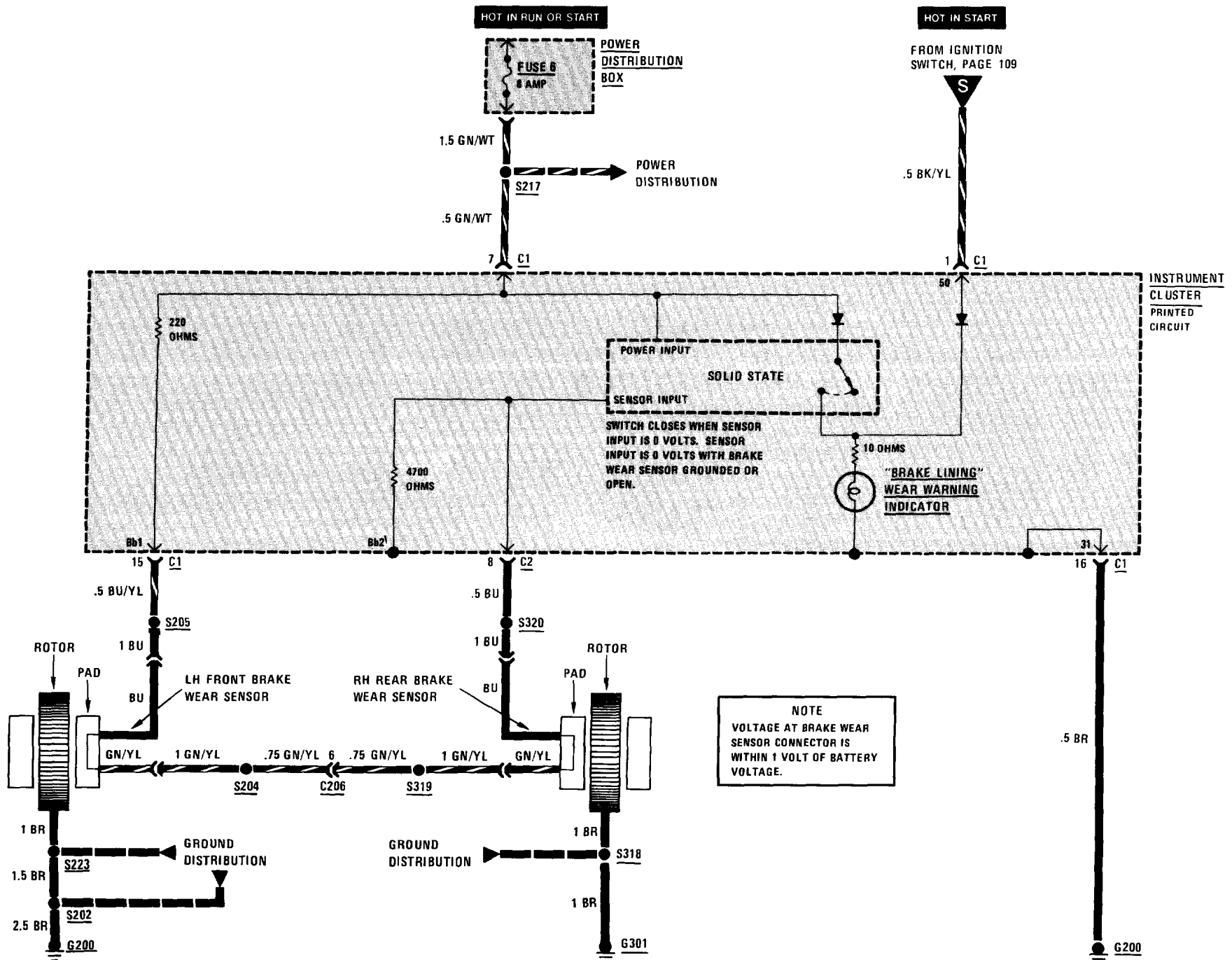
(For Component Locations See Page 201)



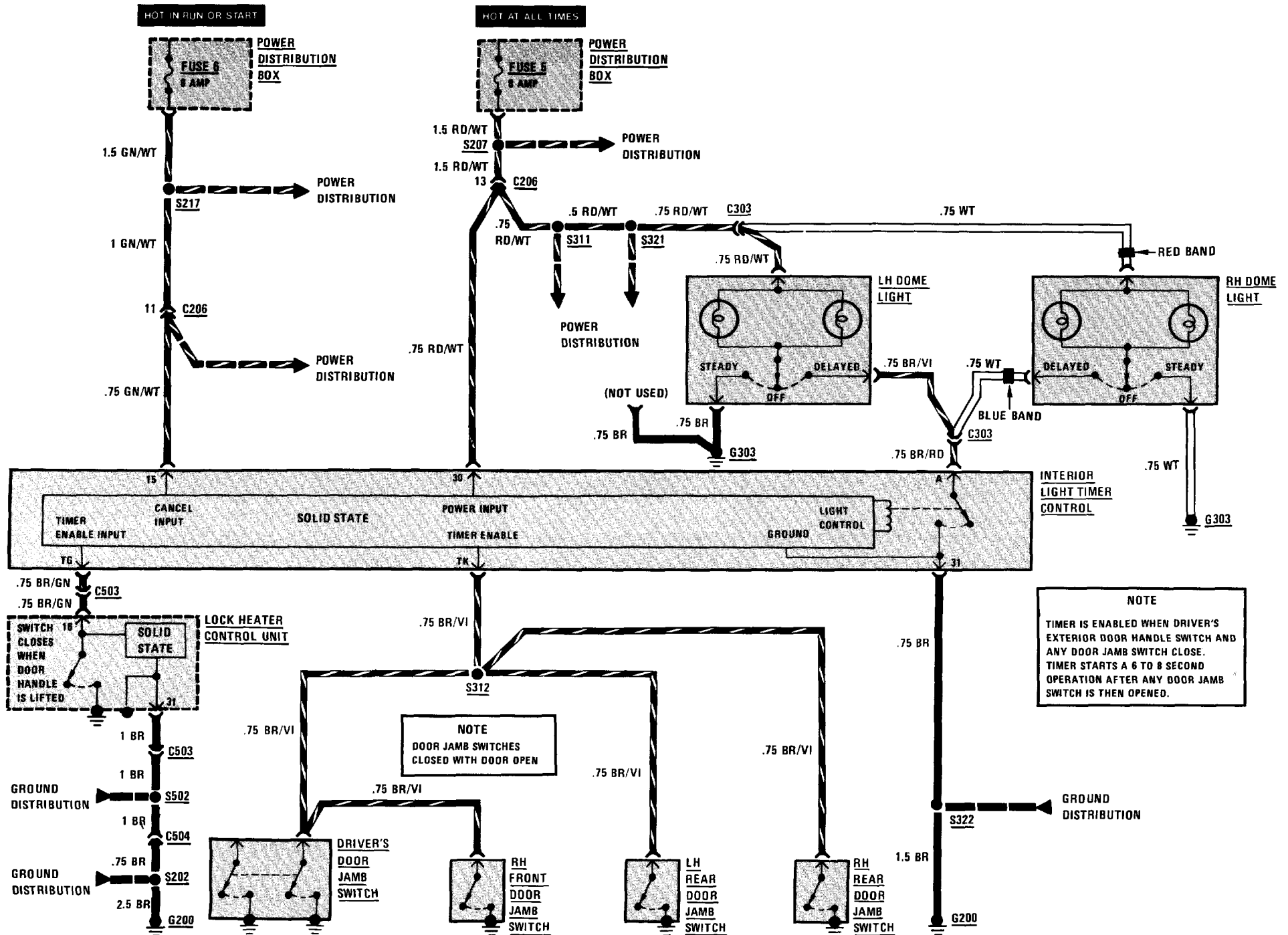


# 124 BRAKE LINING WARNING

(For Component Locations See Page 202)

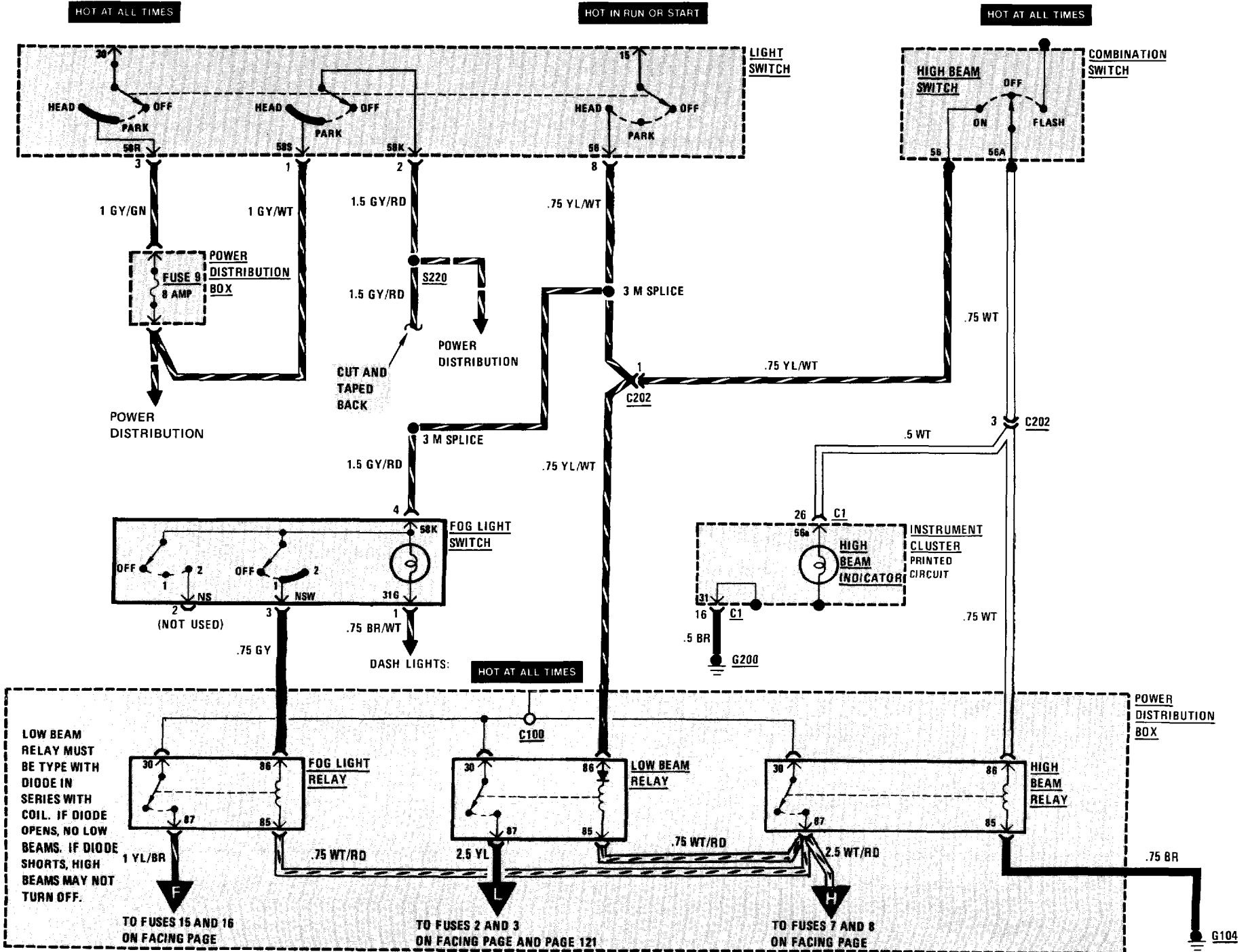


(For Component Locations See Page 207)

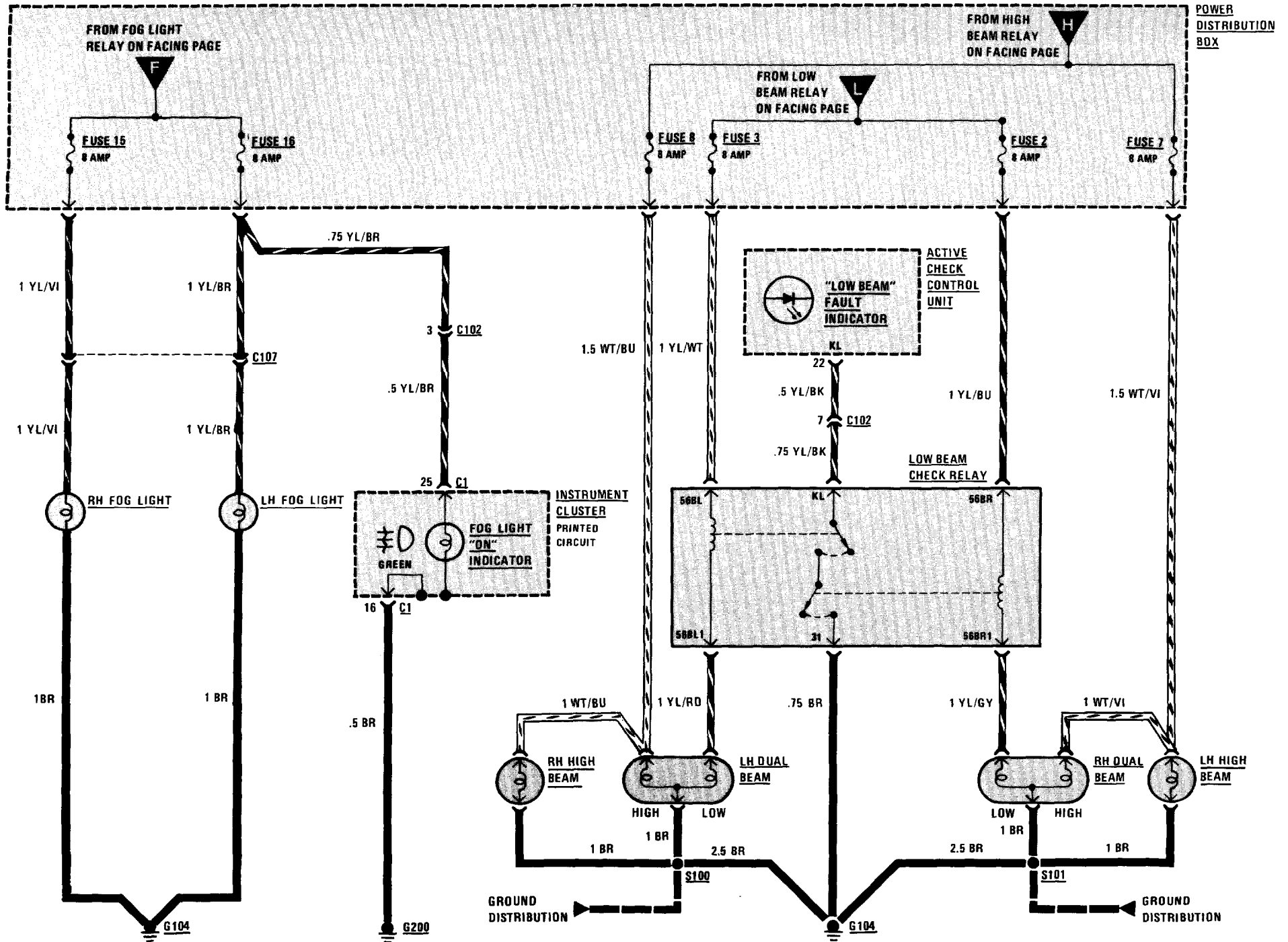


# 126 HEADLIGHTS (CONTROL)/FOG LIGHTS (CONTROL)

(For Component Locations See Page 205)

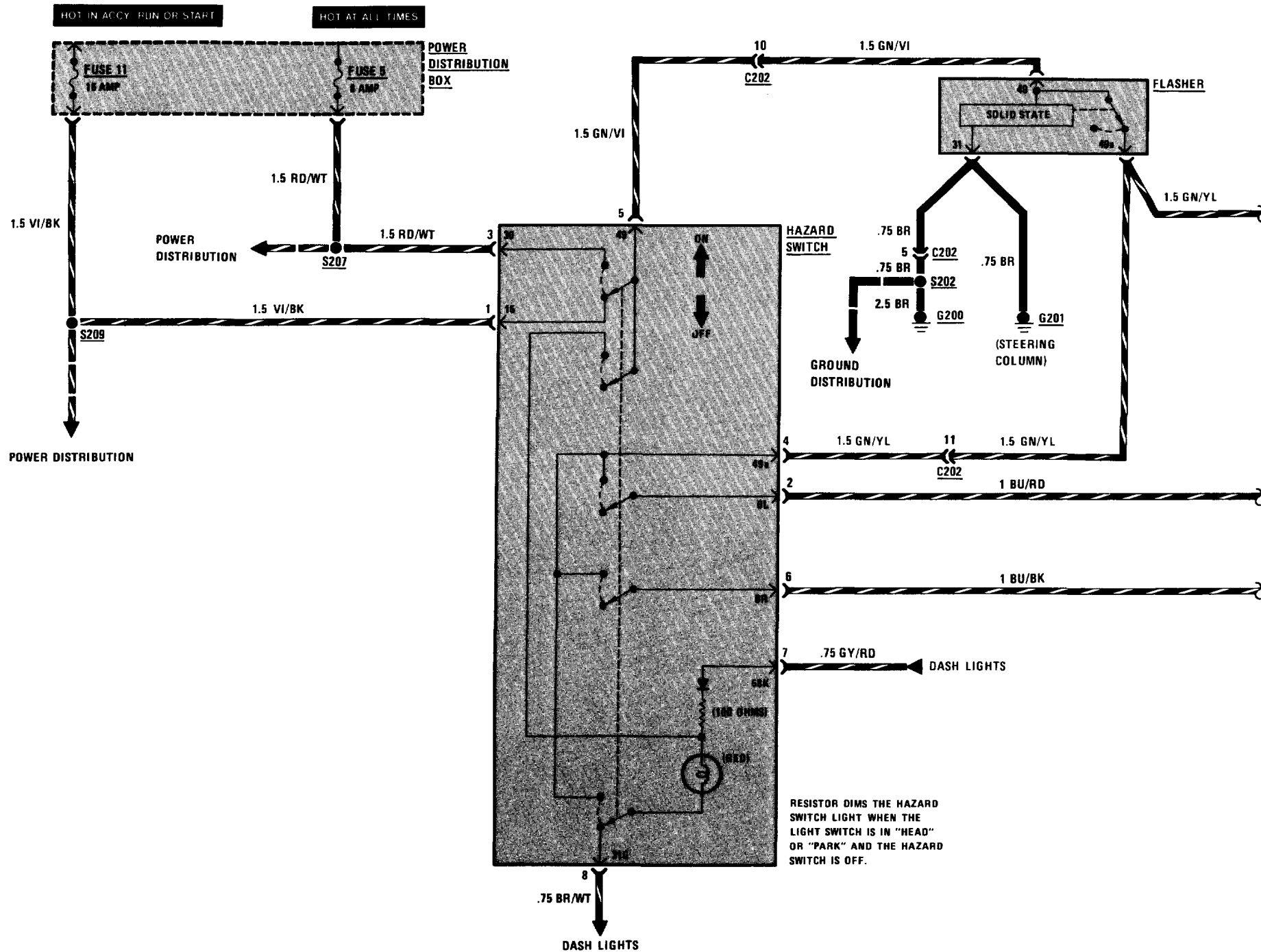


(For Component Locations See Page 205)

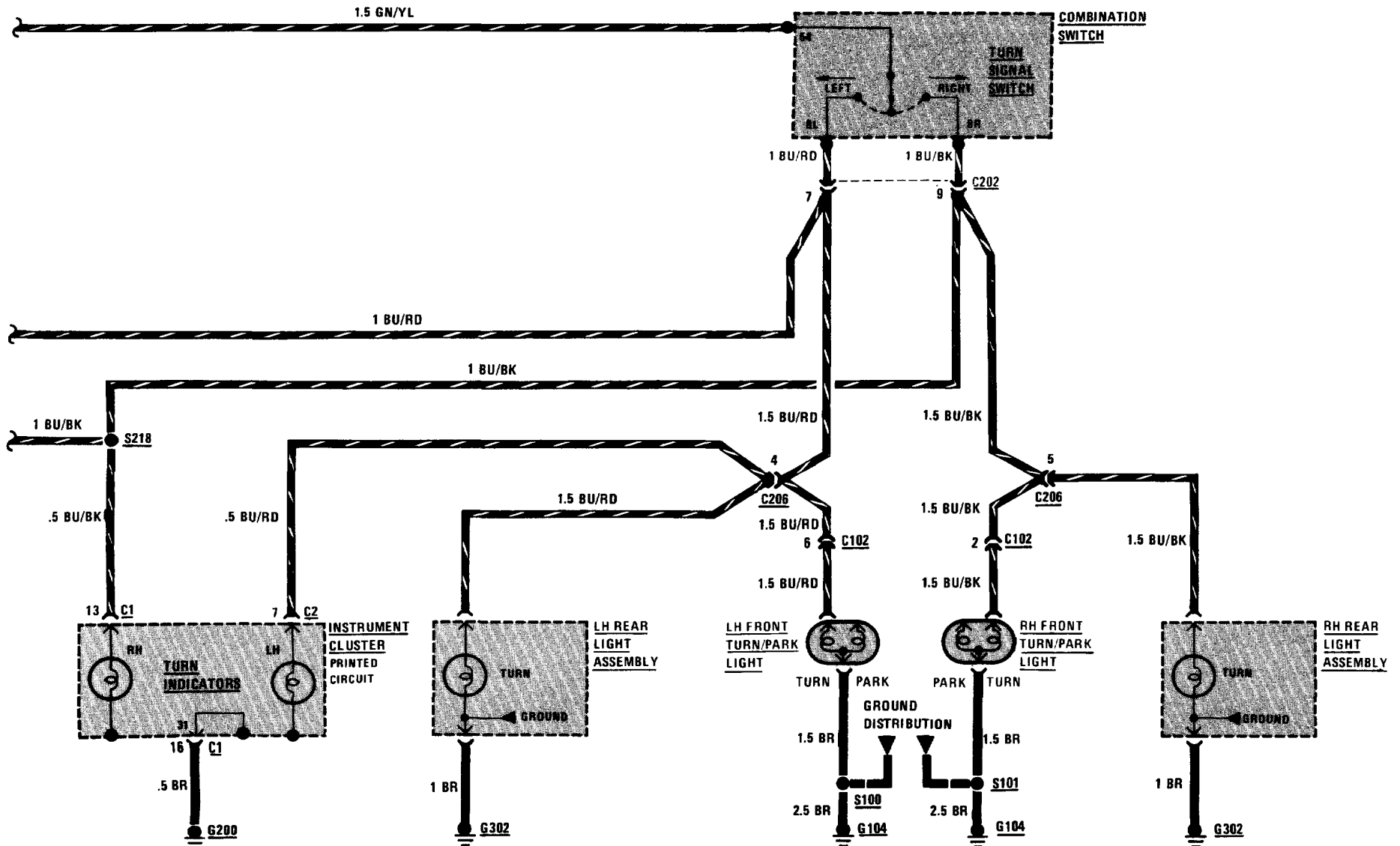


# 128 LIGHTS: TURN/HAZARD WARNING

(For Component Locations See Page 208)

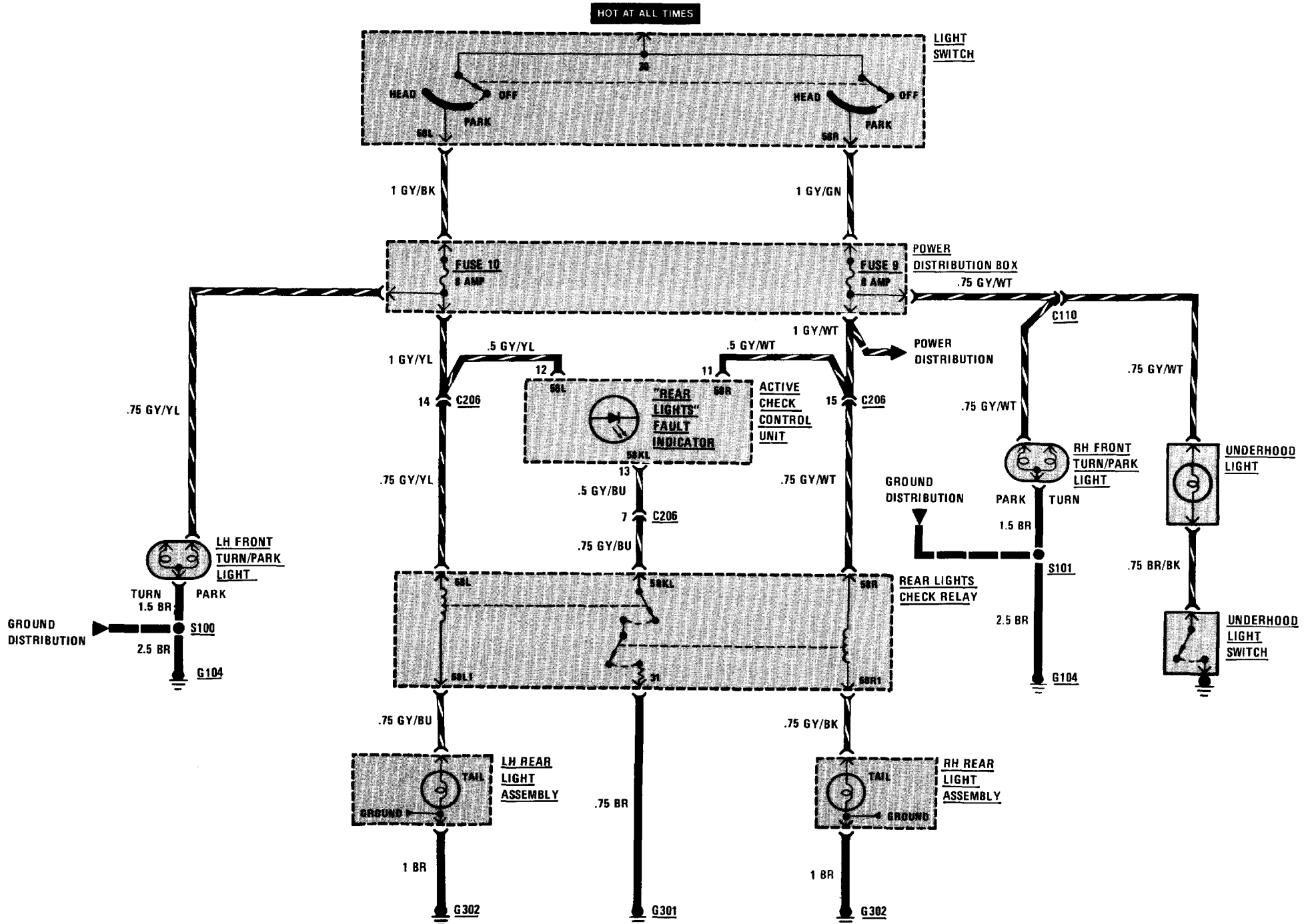


(For Component Locations See Page 208)

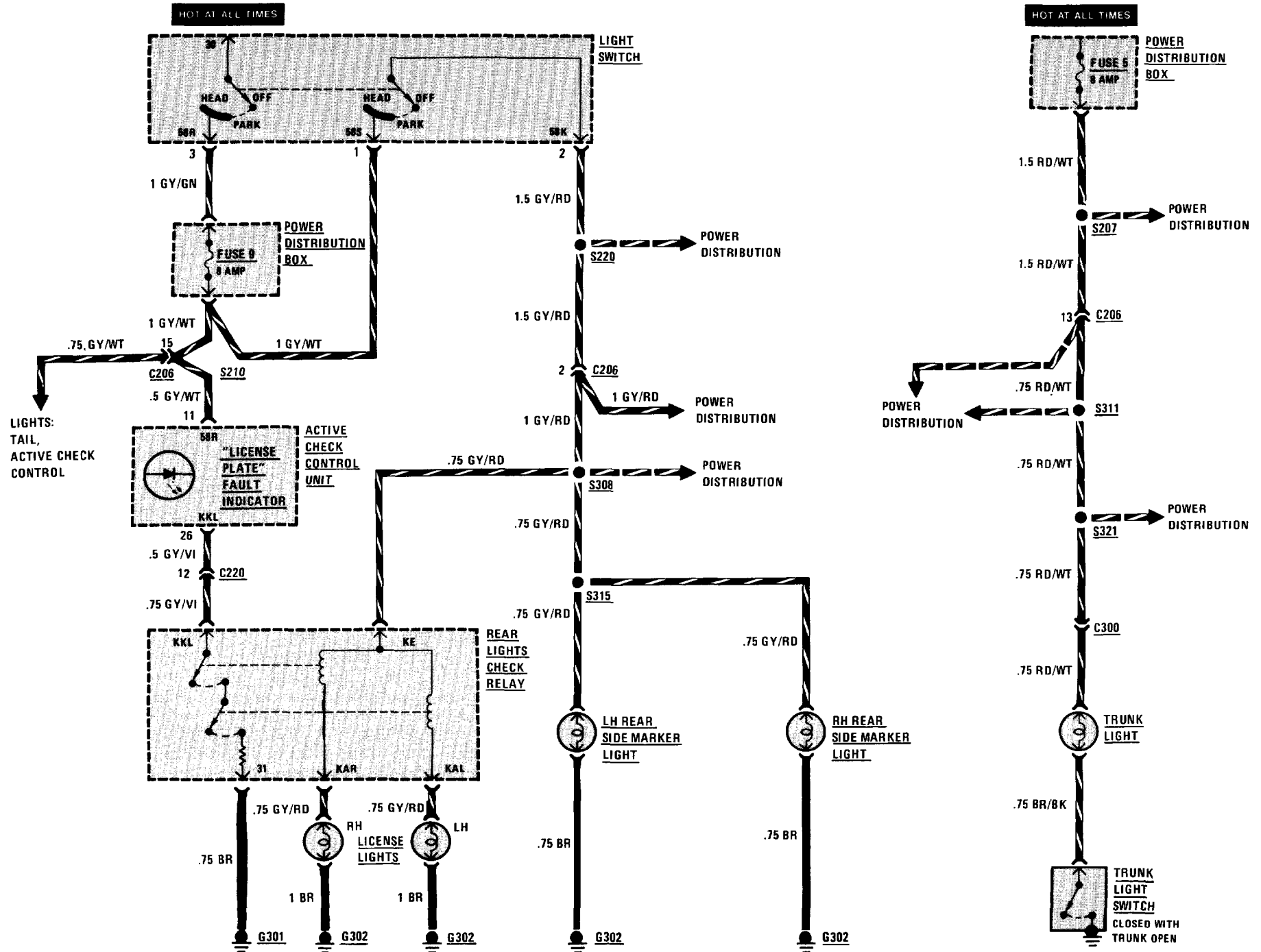


# 130 LIGHTS: FRONT PARK/TAIL/UNDERHOOD

(For Component Locations See Page 207)



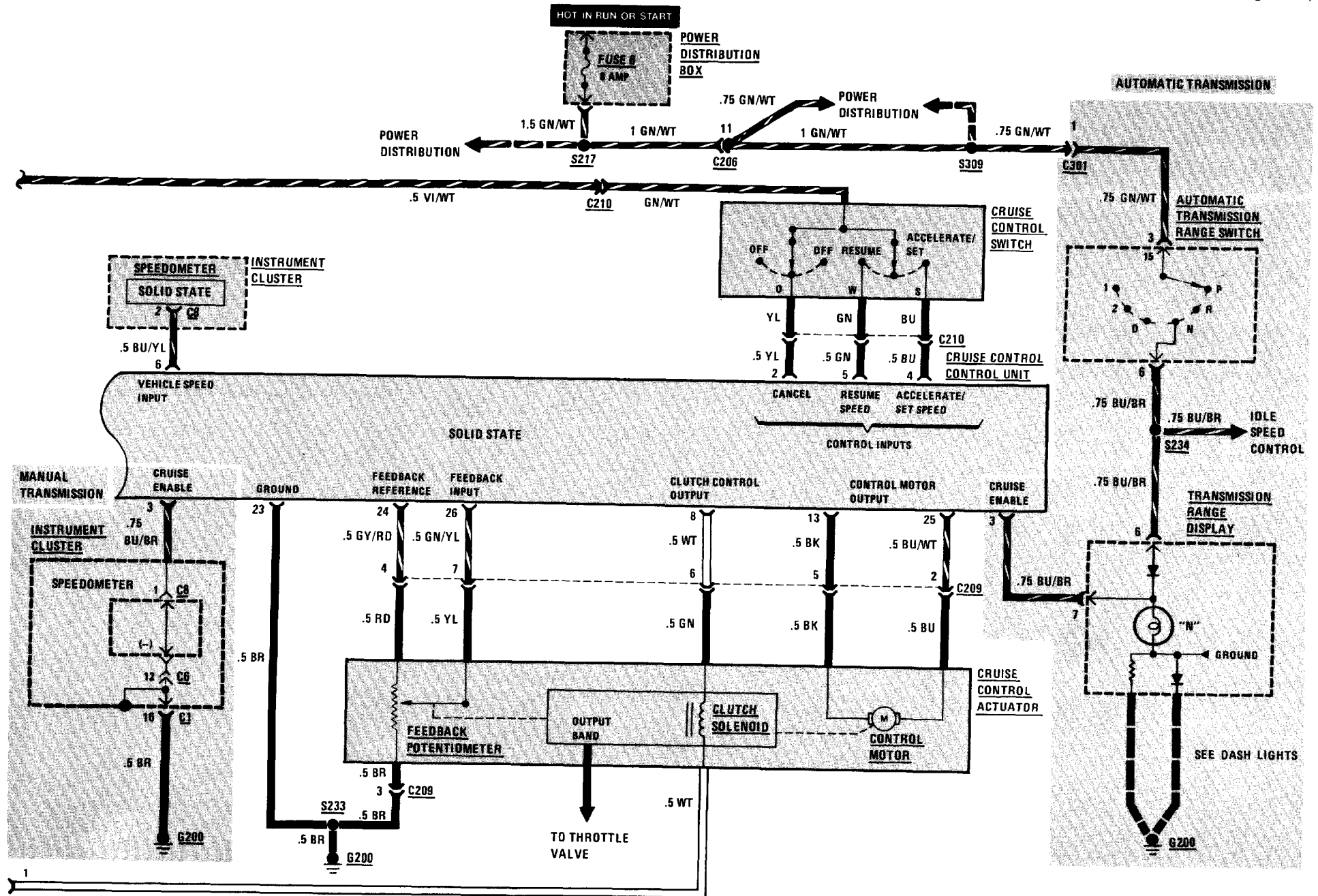
(For Component Locations See Page 208)





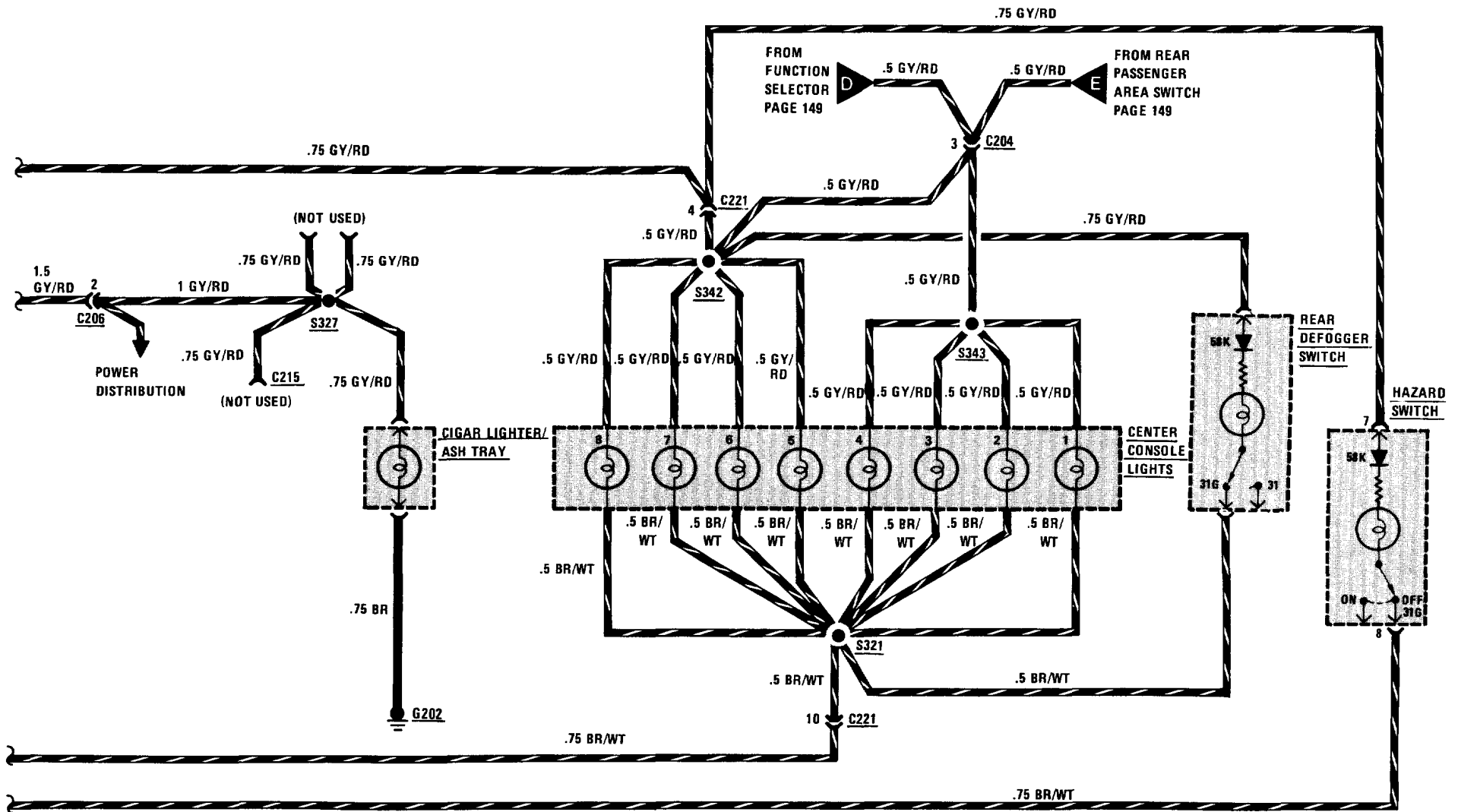


(For Component Locations See Page 212)



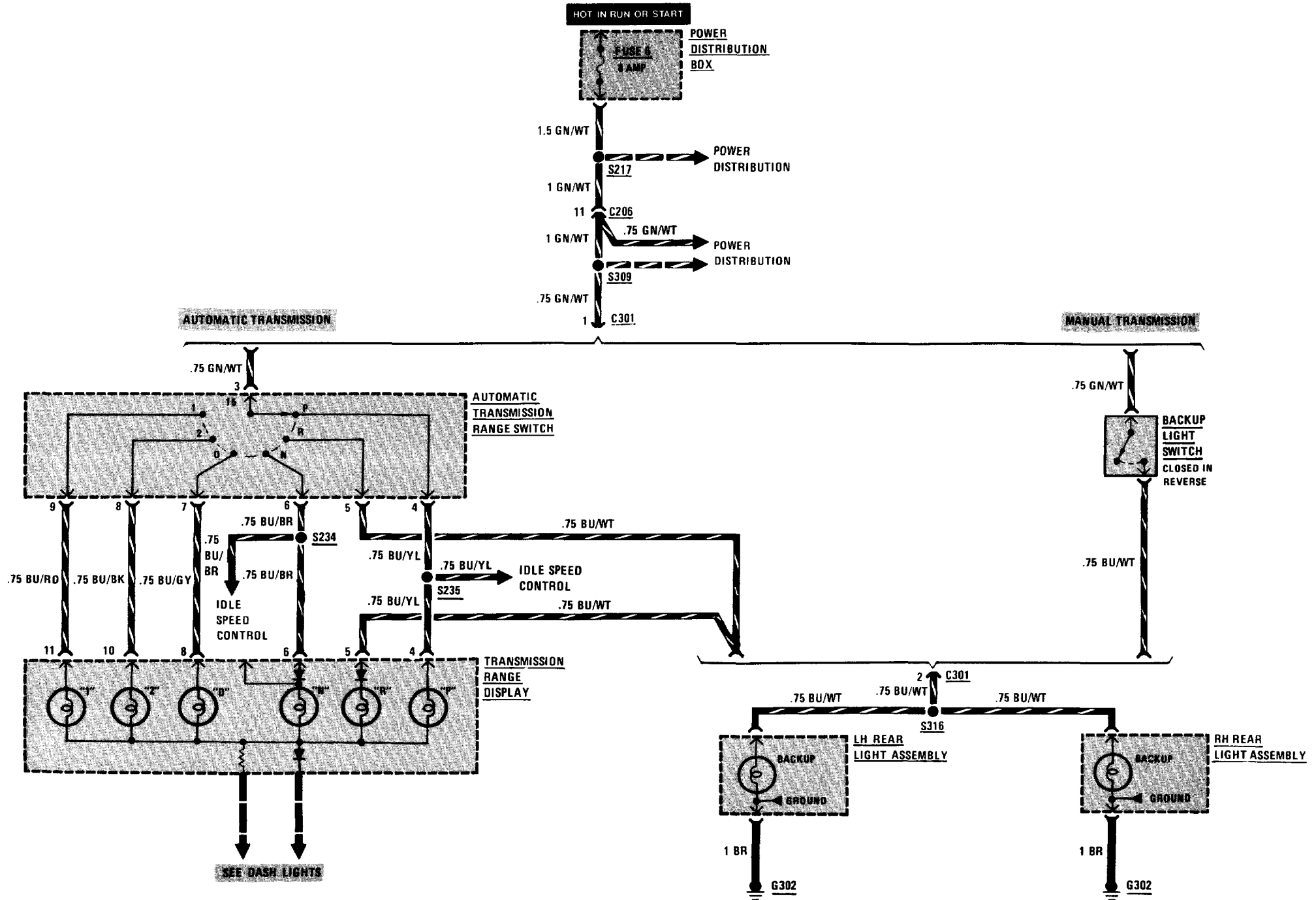


(For Component Locations See Page 204)

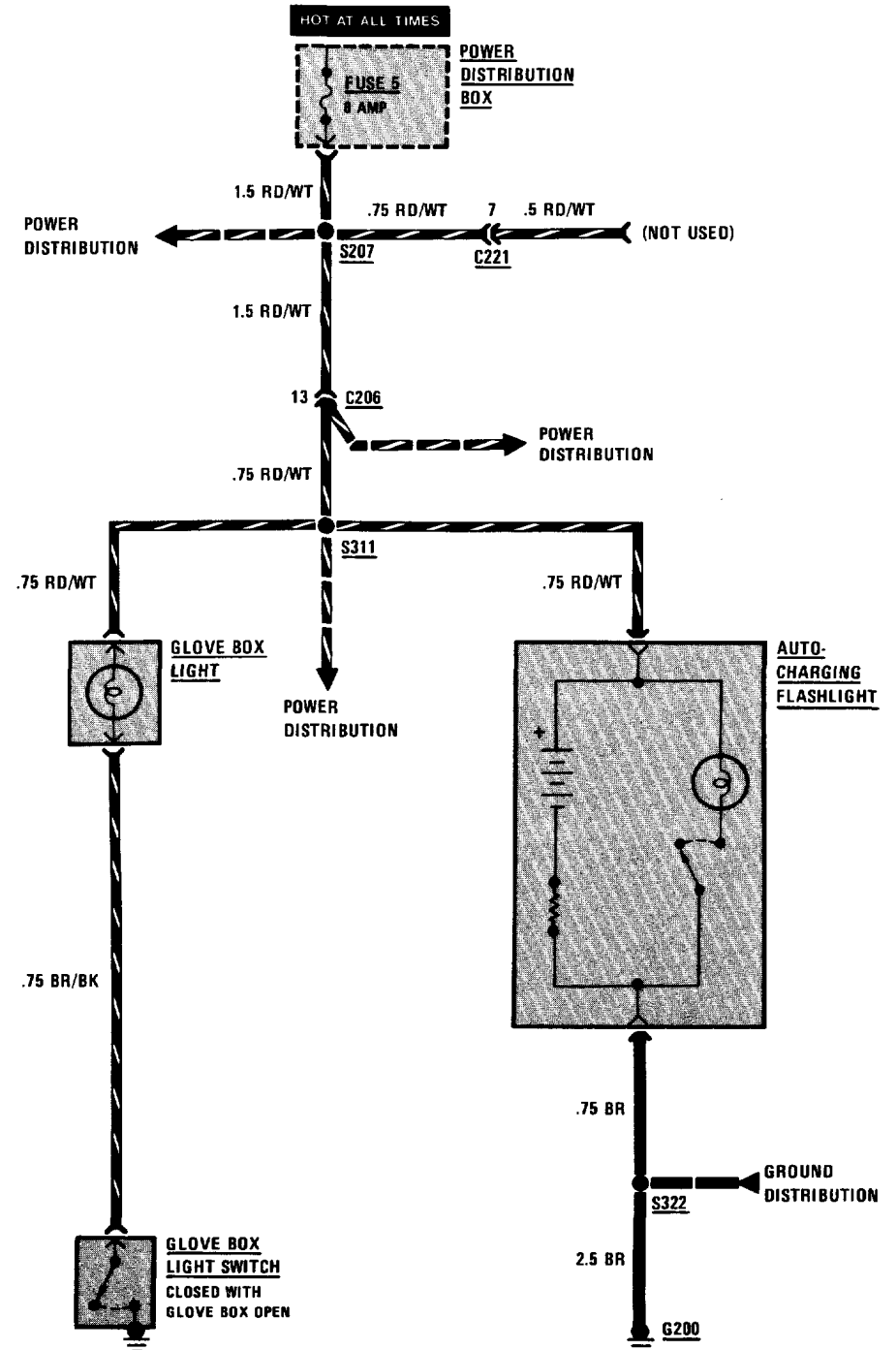
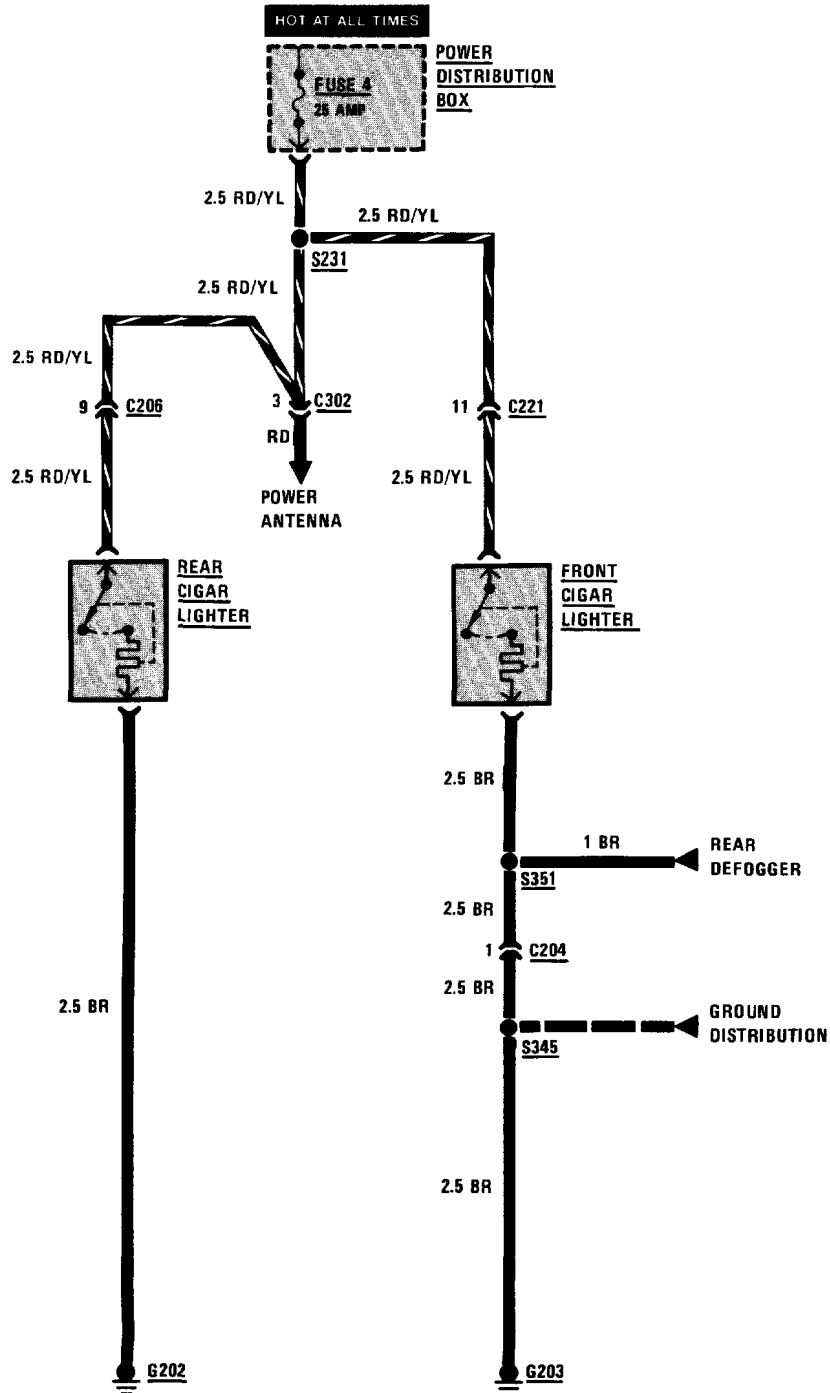


# 136 LIGHTS: BACKUP/TRANSMISSION RANGE

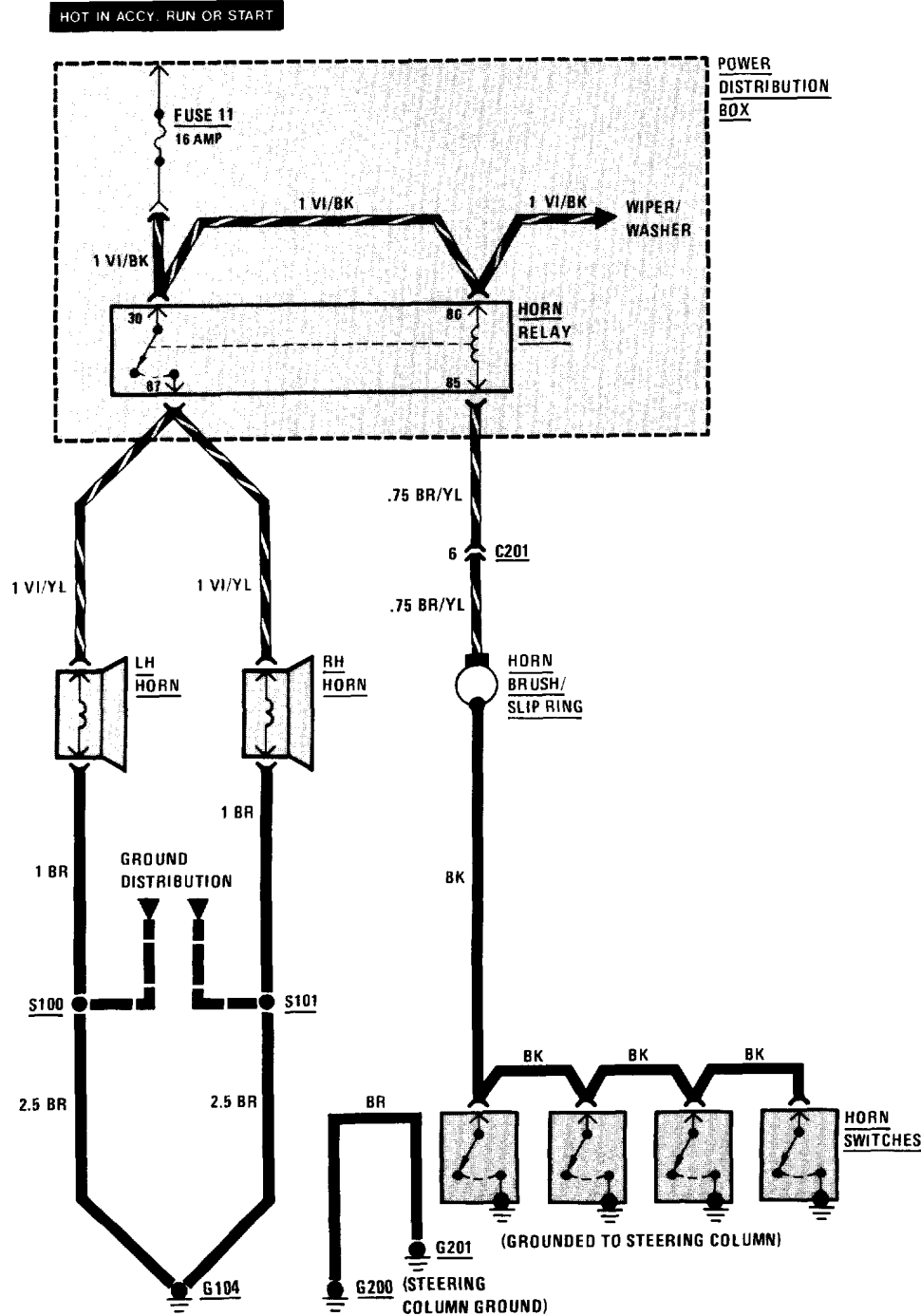
(For Component Locations See Page 207)



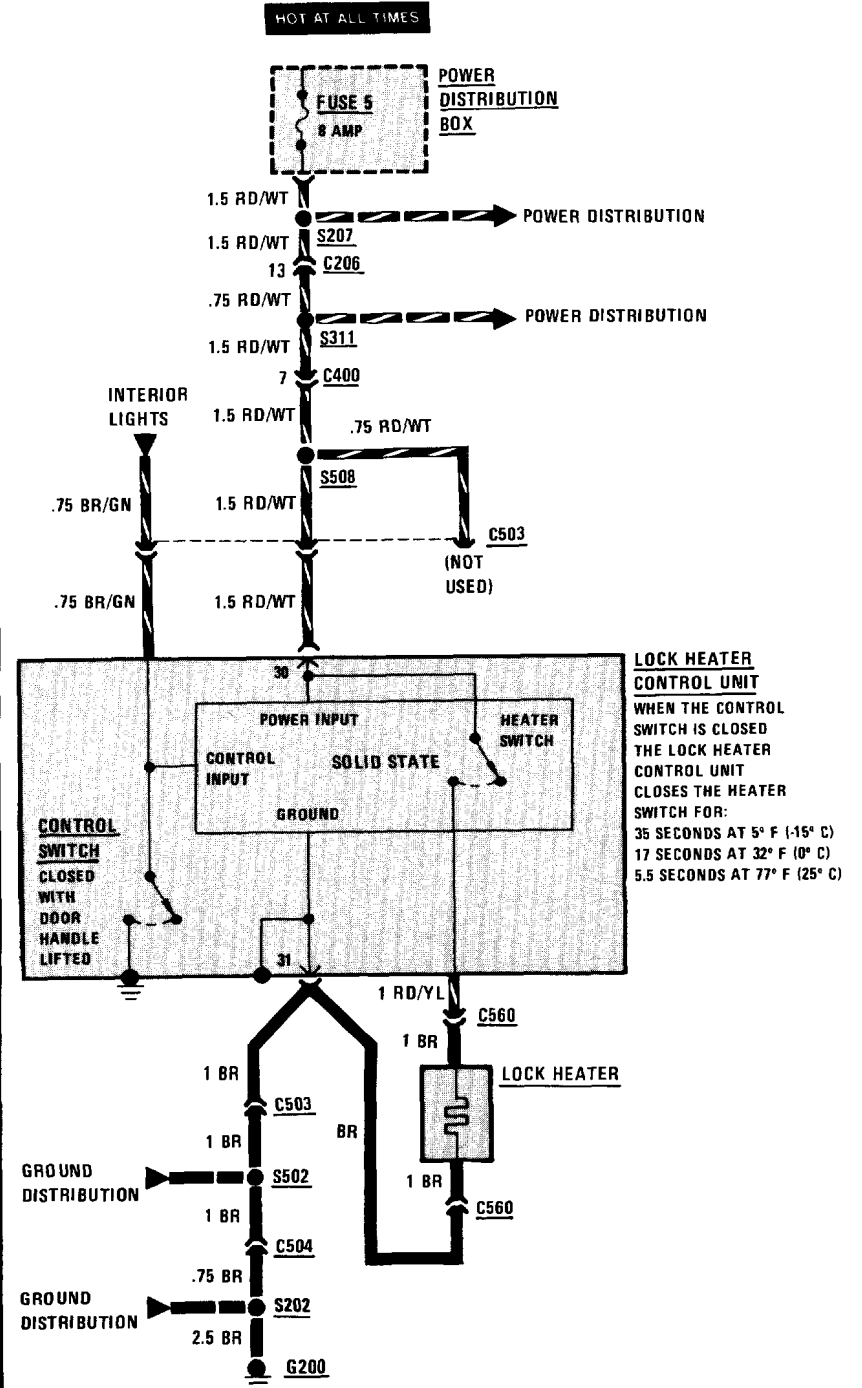
(For Component Locations See Page 203)



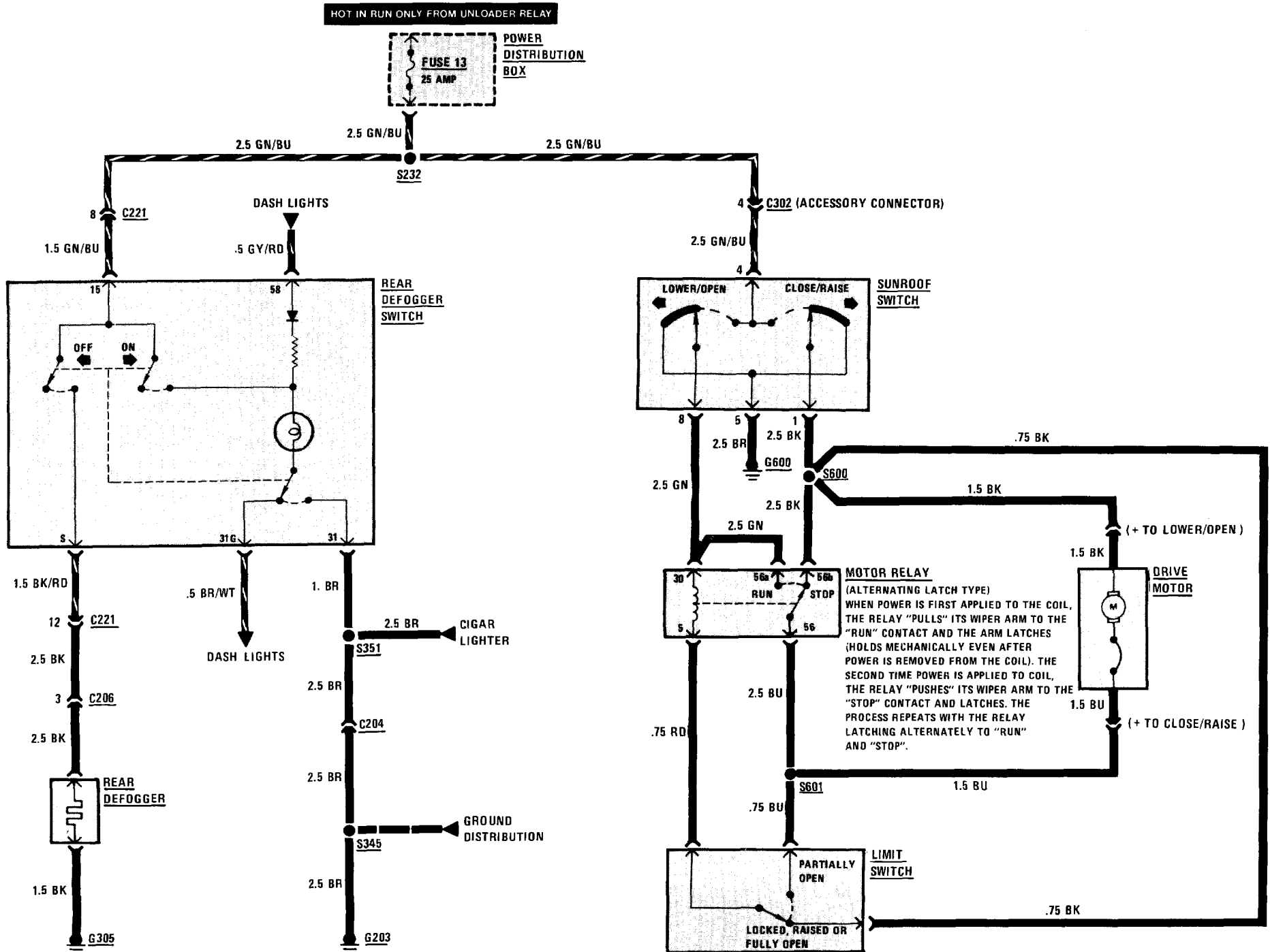
(For Component Locations See Page 205)



(For Component Locations See Page 205)



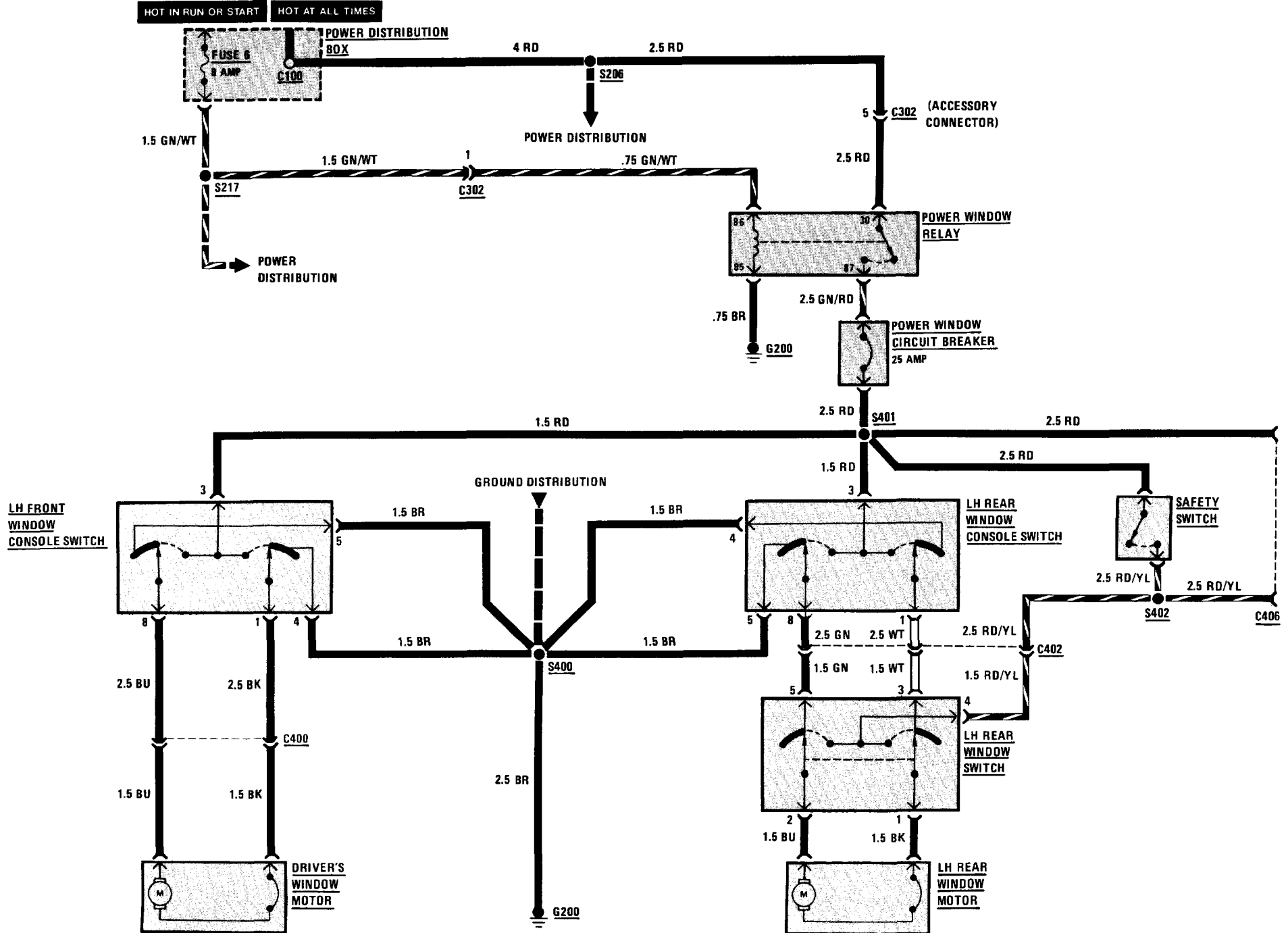
(For Component Locations See Page 211)



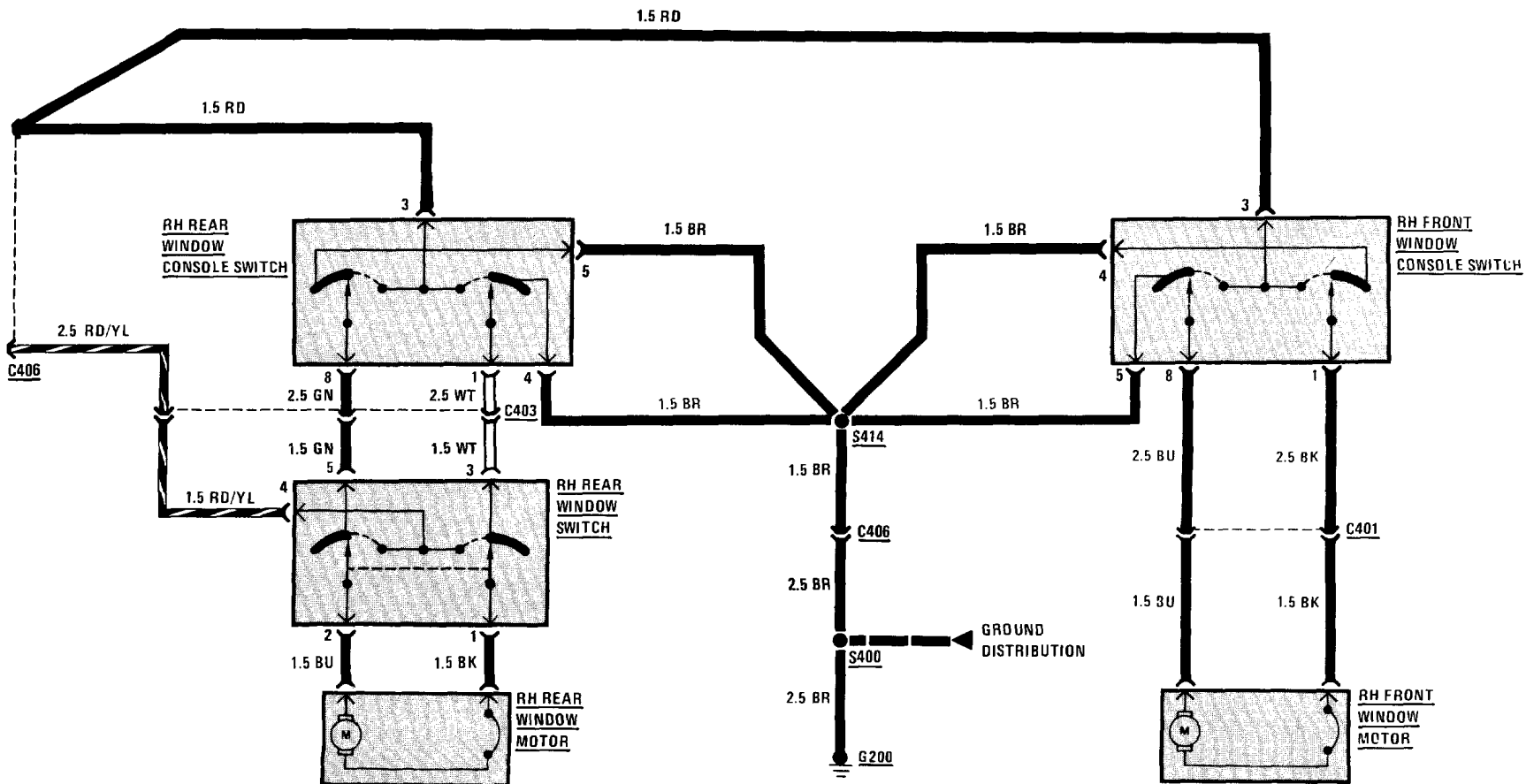


# 140 POWER WINDOWS

(For Component Locations See Page 210)

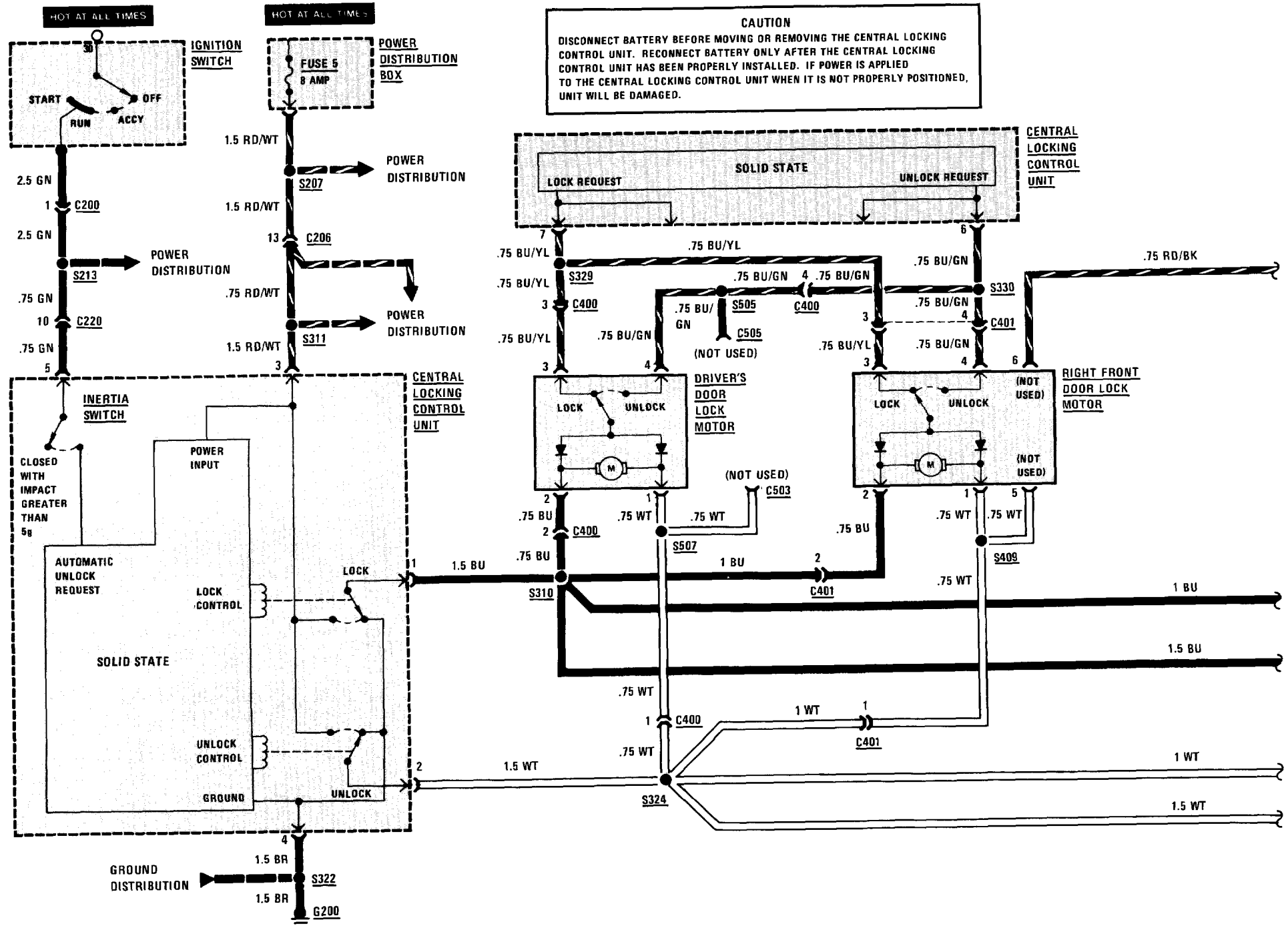


(For Component Locations See Page 210)



# 142 CENTRAL LOCKING (SELECT)

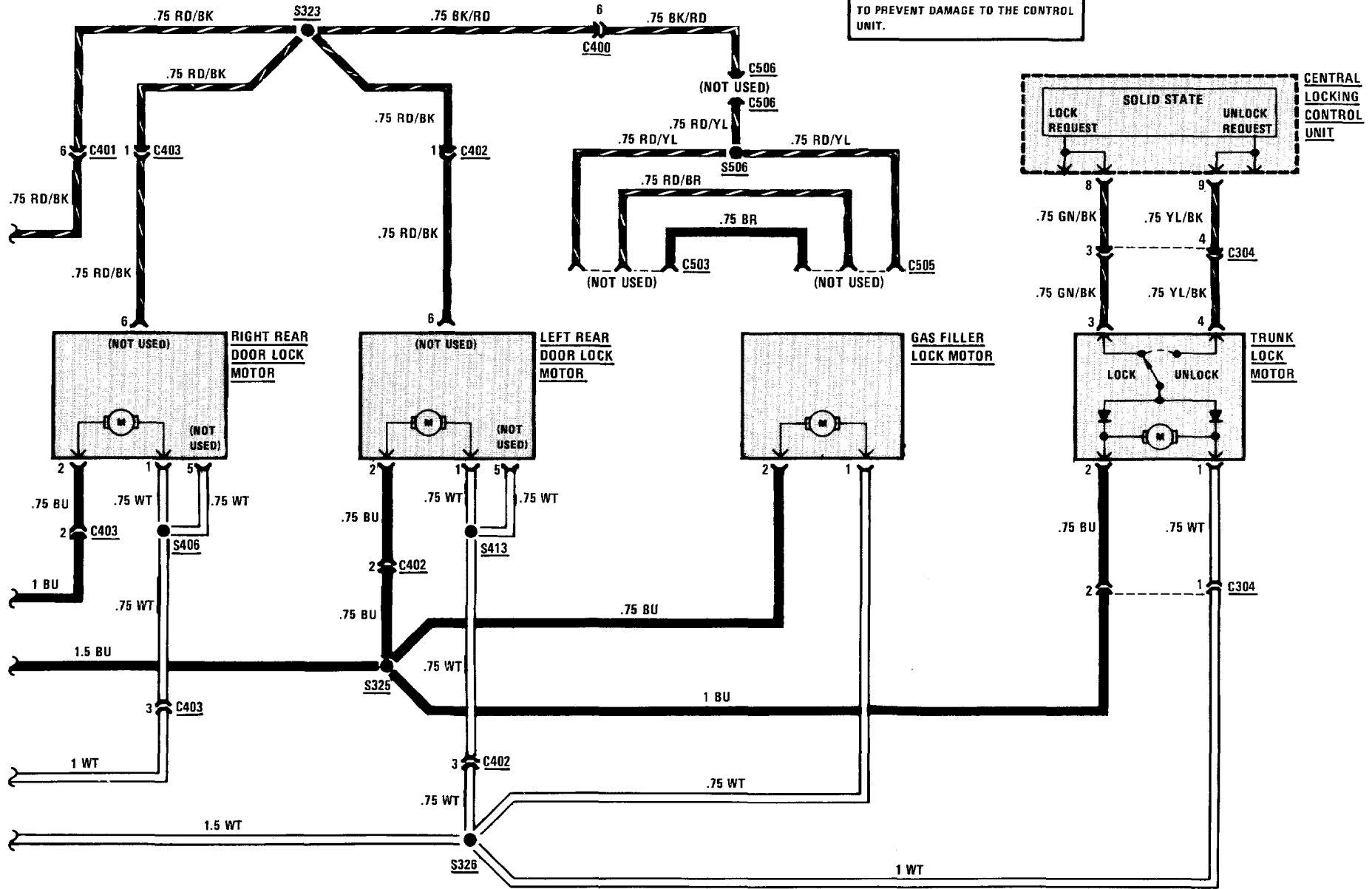
(For Component Locations See Page 203)



(For Component Locations See Page 203)

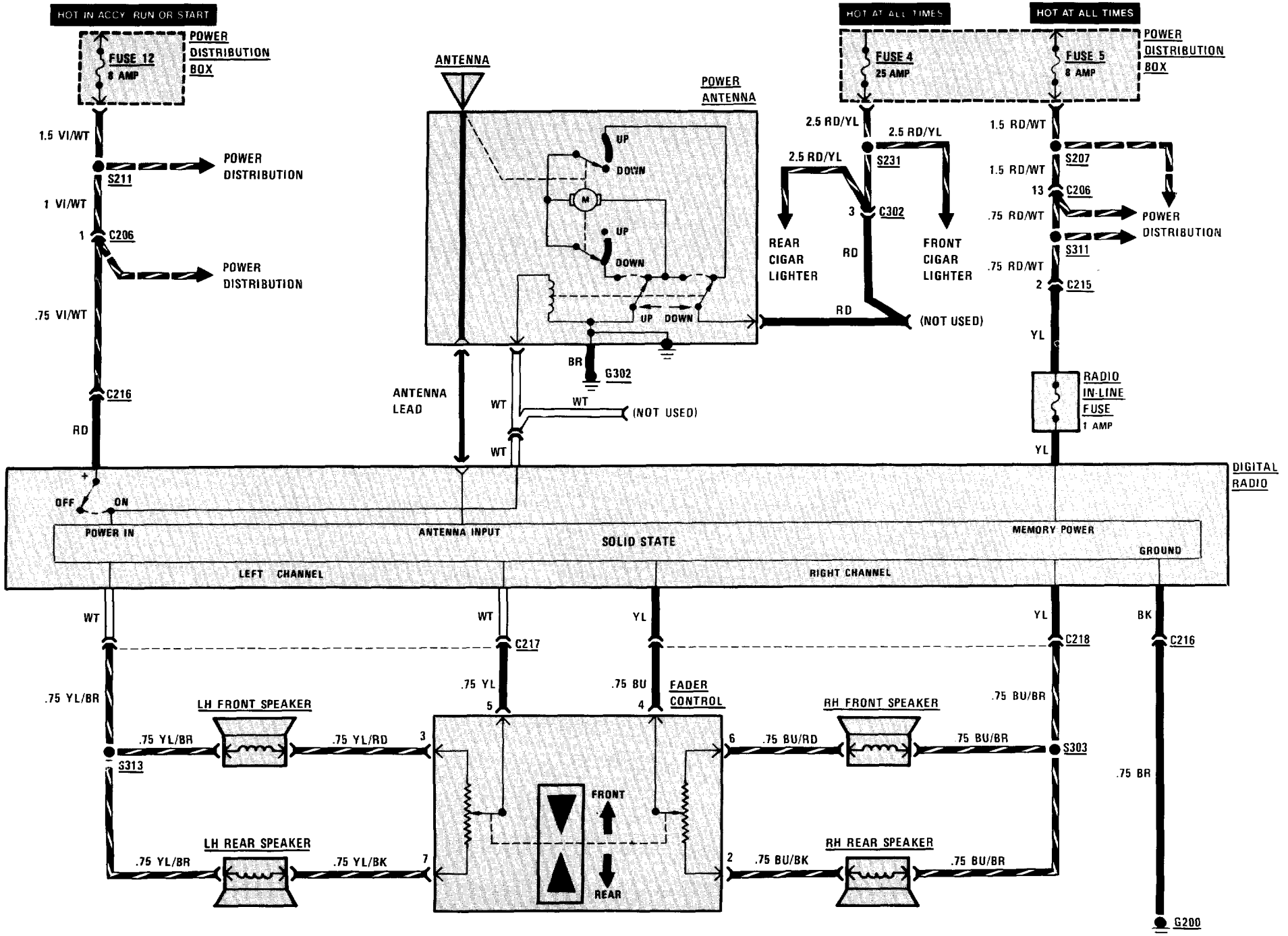
**CAUTION**

DO NOT OPERATE THE SYSTEM MORE THAN 8 TIMES IN QUICK SUCCESSION TO PREVENT DAMAGE TO THE CONTROL UNIT.



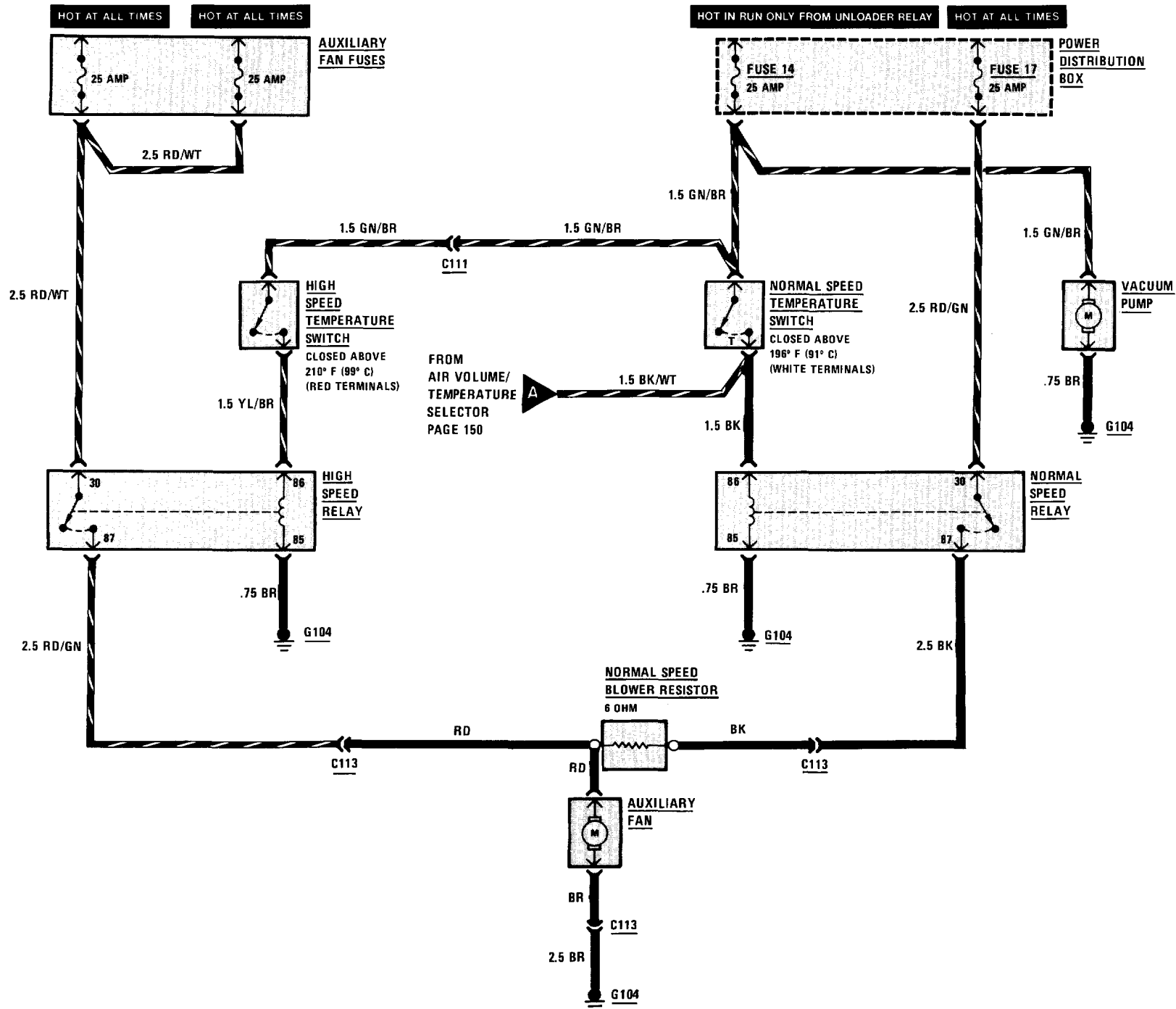


(For Component Locations See Page 210)

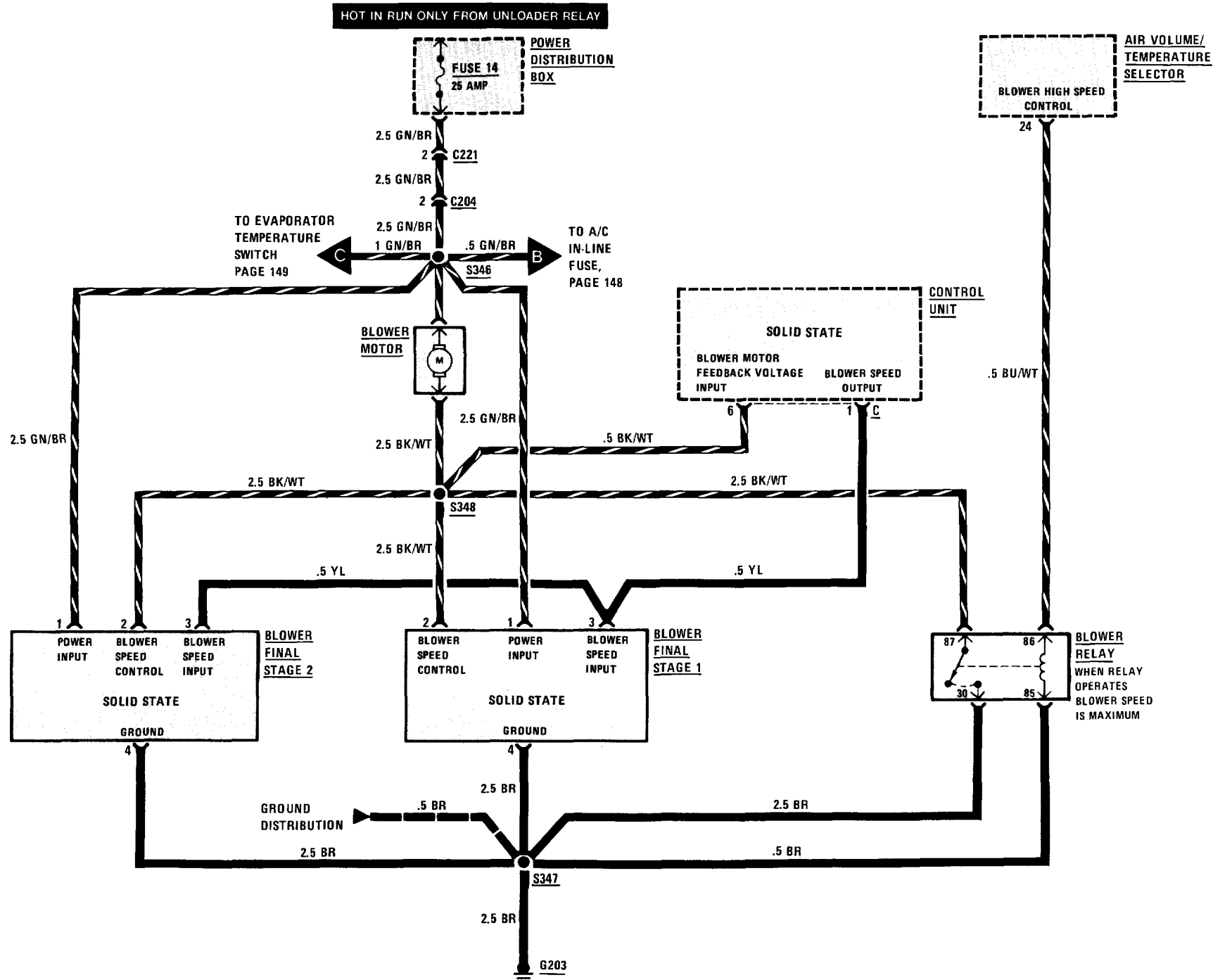


# 146 AUXILIARY FAN/VACUUM PUMP

(For Component Locations See Page 202)



(For Component Locations See Page 201)





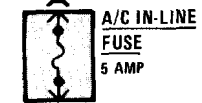
# 148 AUTOMATIC HEATER-AIR CONDITIONER (AIR CONTROL)

(For Component Locations See Page 201)

HOT IN RUN ONLY FROM UNLOADER RELAY

FROM S346,  
PAGE 147

.5 GN/BR



.5 GN/BR

3

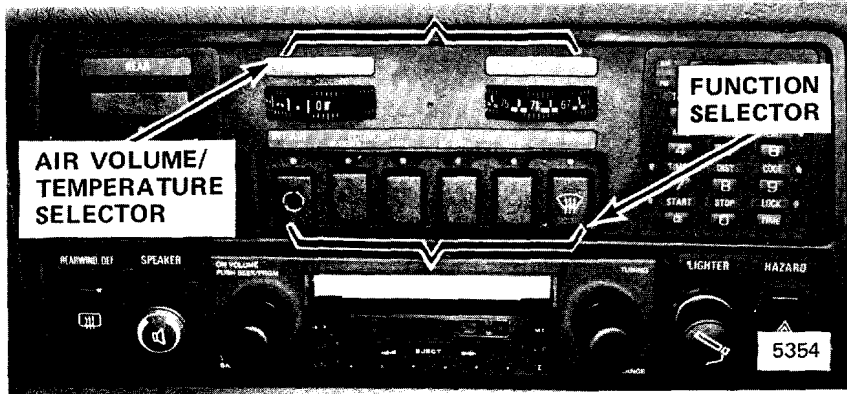
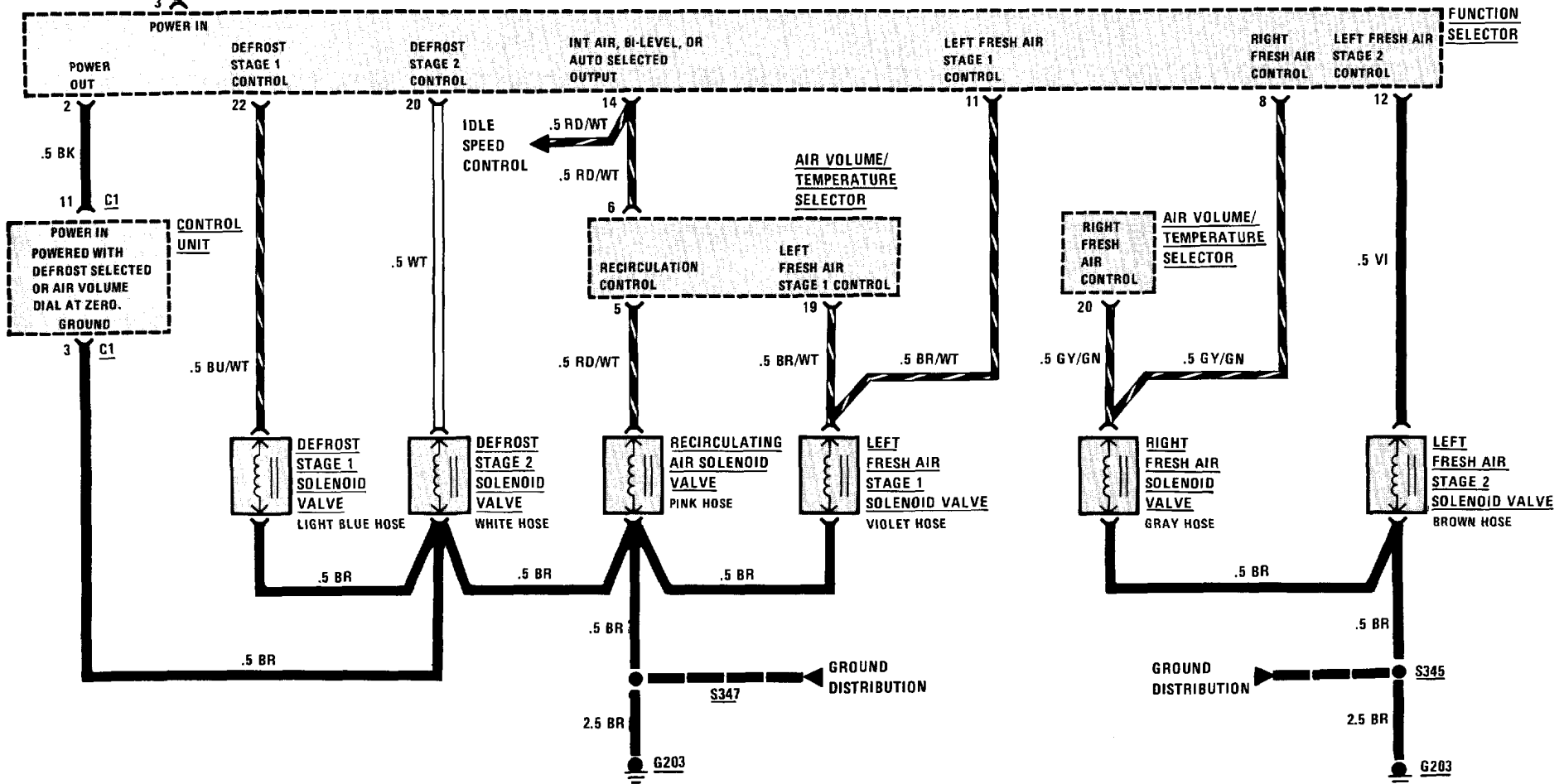
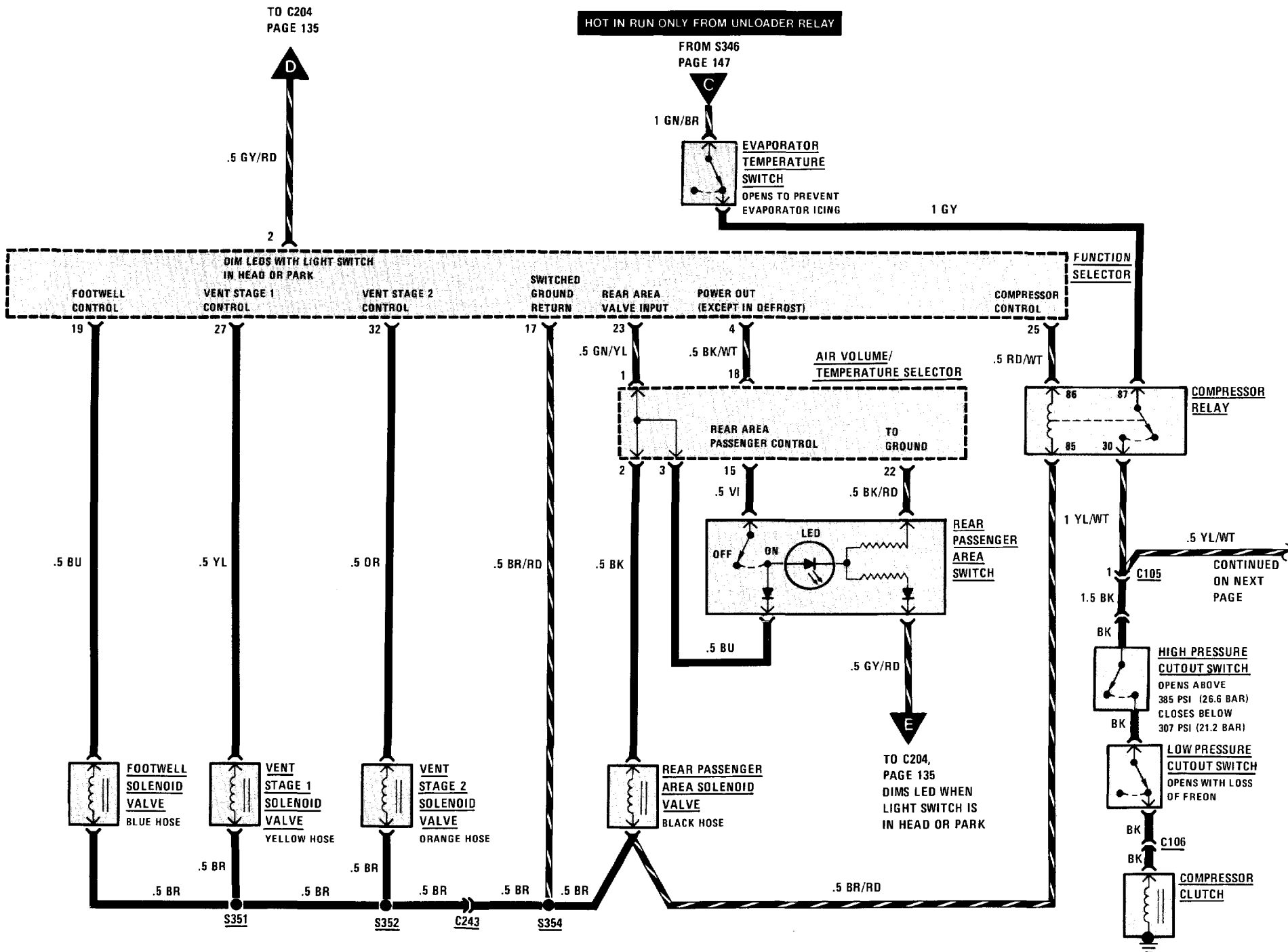


Figure 1 - At Center Console

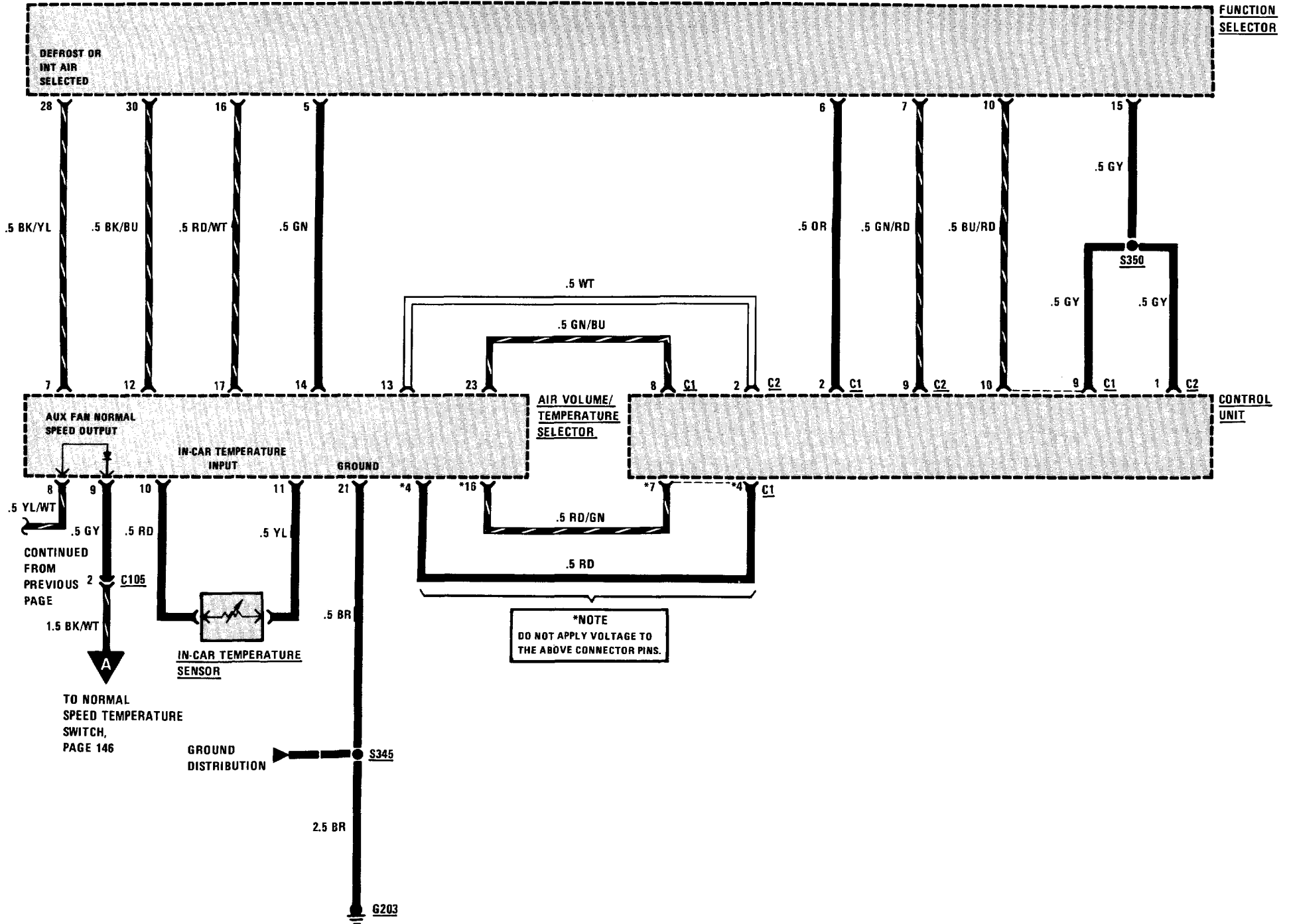


(For Component Locations See Page 201)



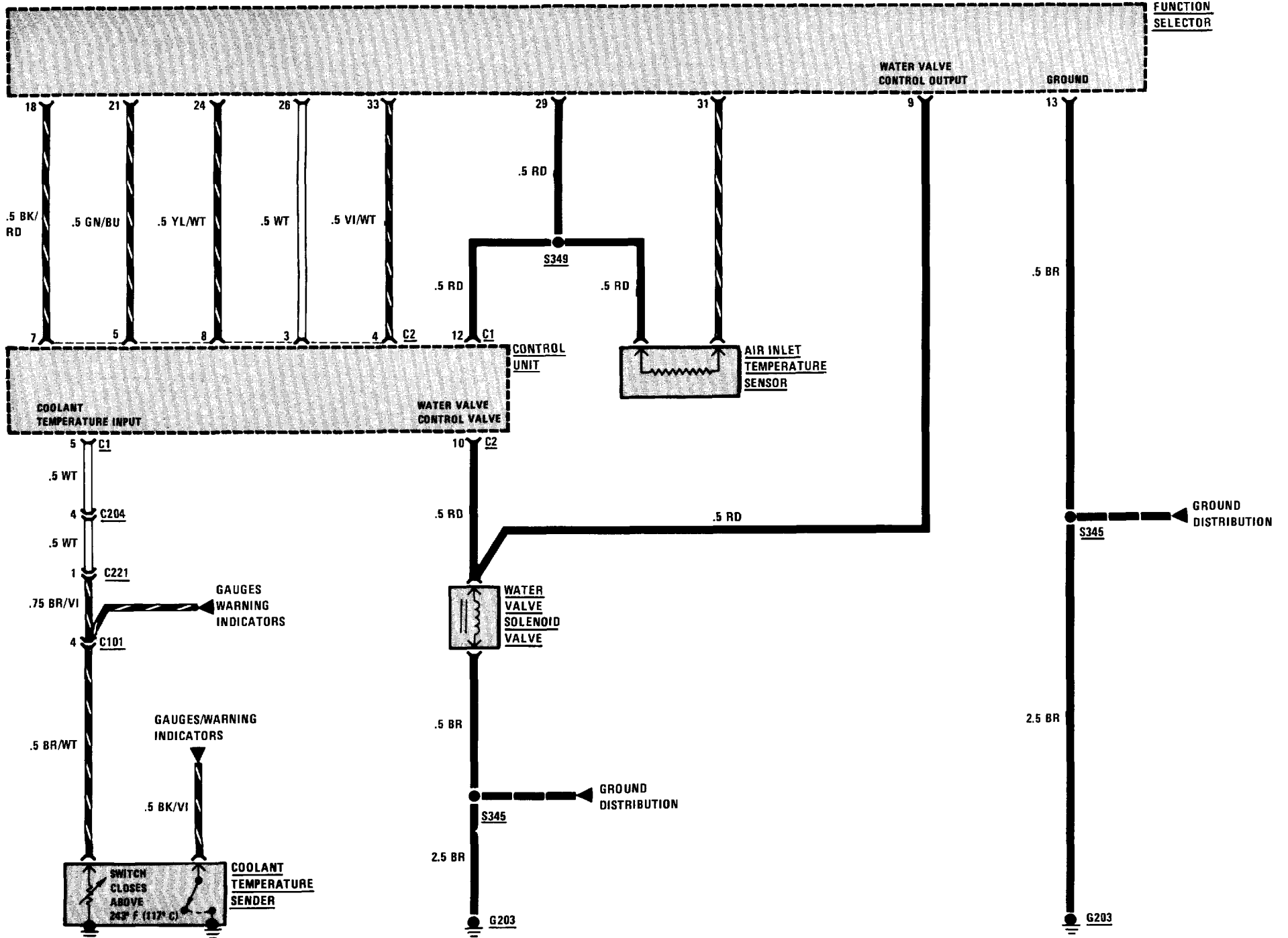
# 150 AUTOMATIC HEATER-AIR CONDITIONER (TEMPERATURE CONTROL)

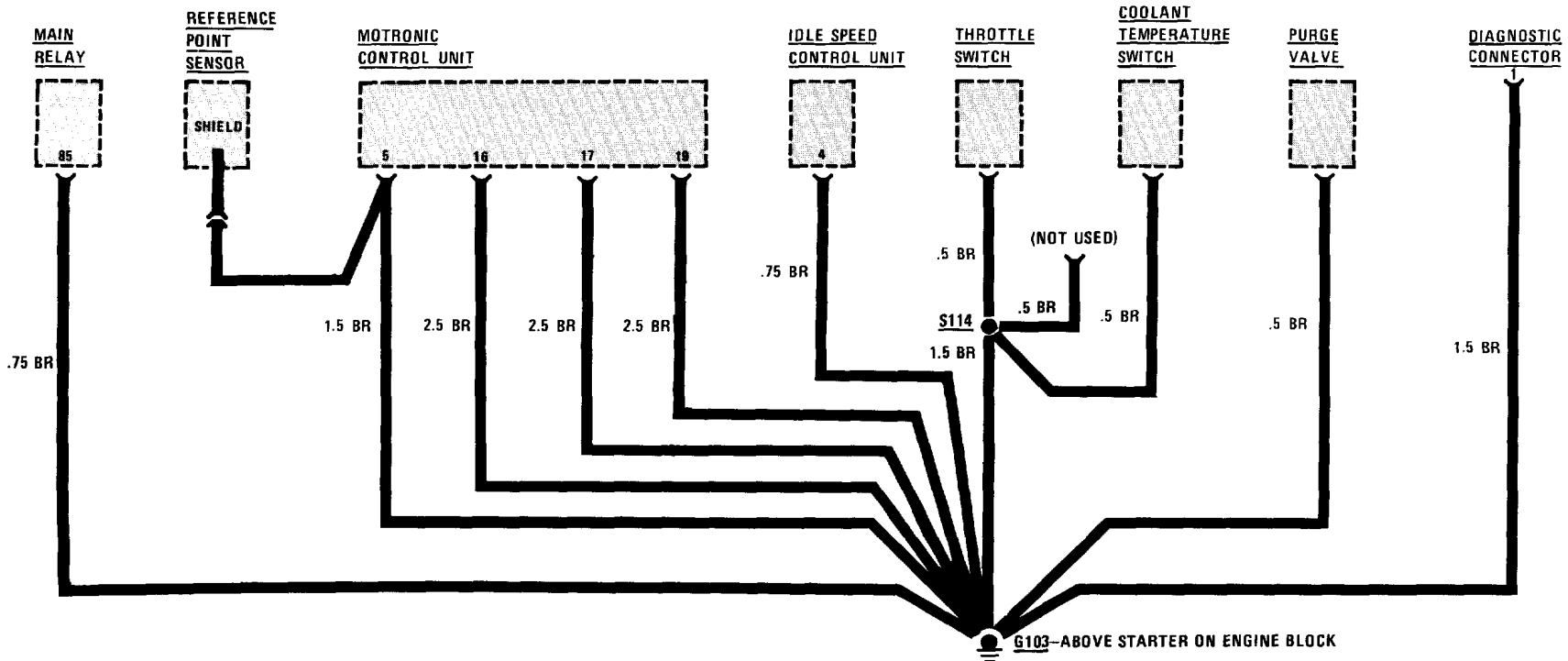
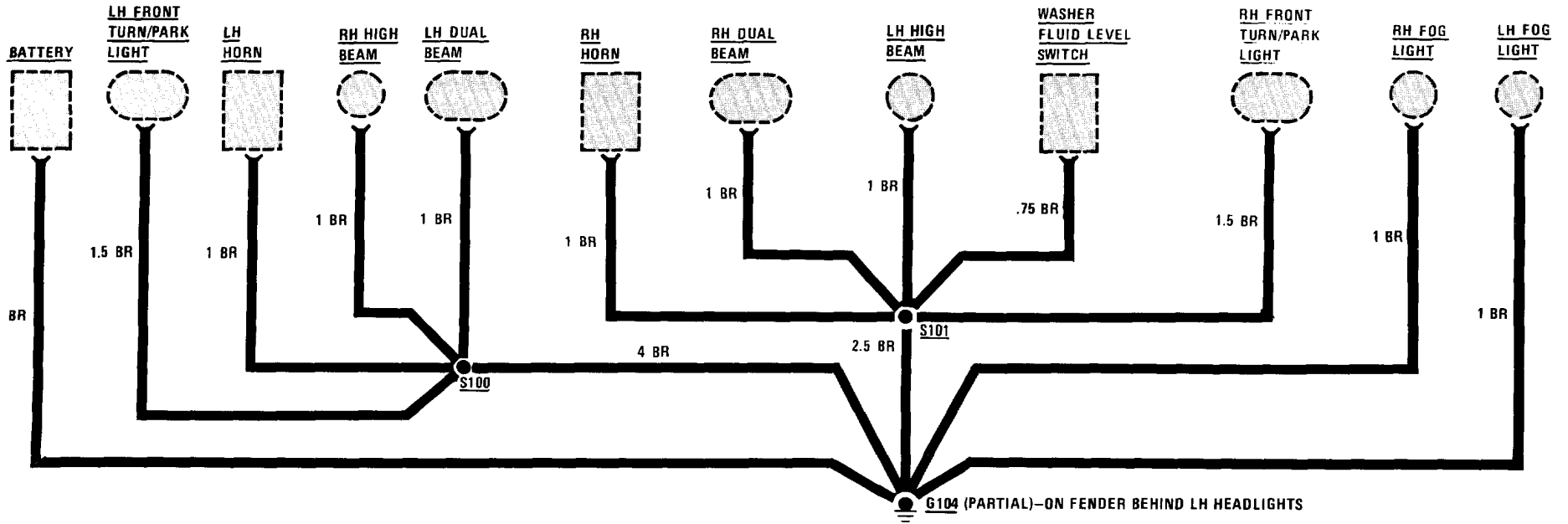
(For Component Locations See Page 201)

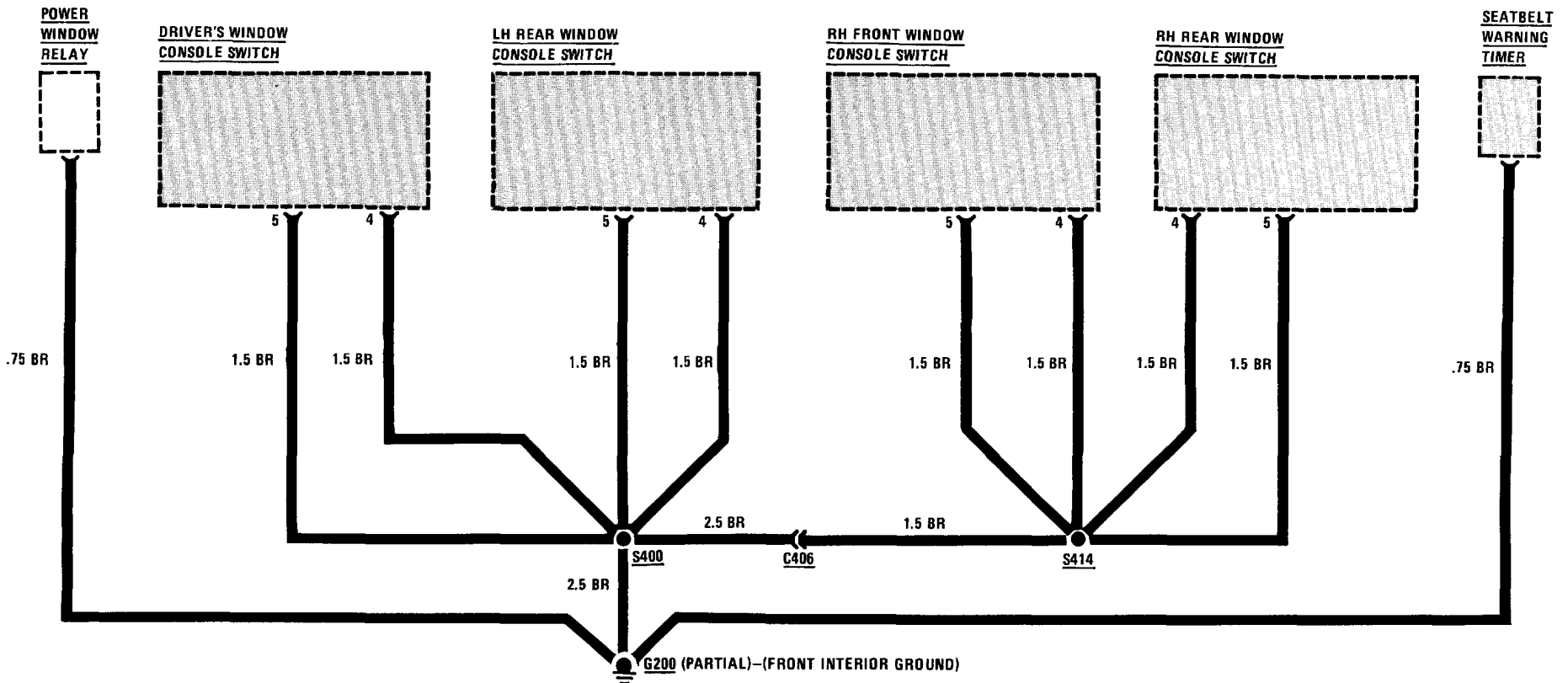
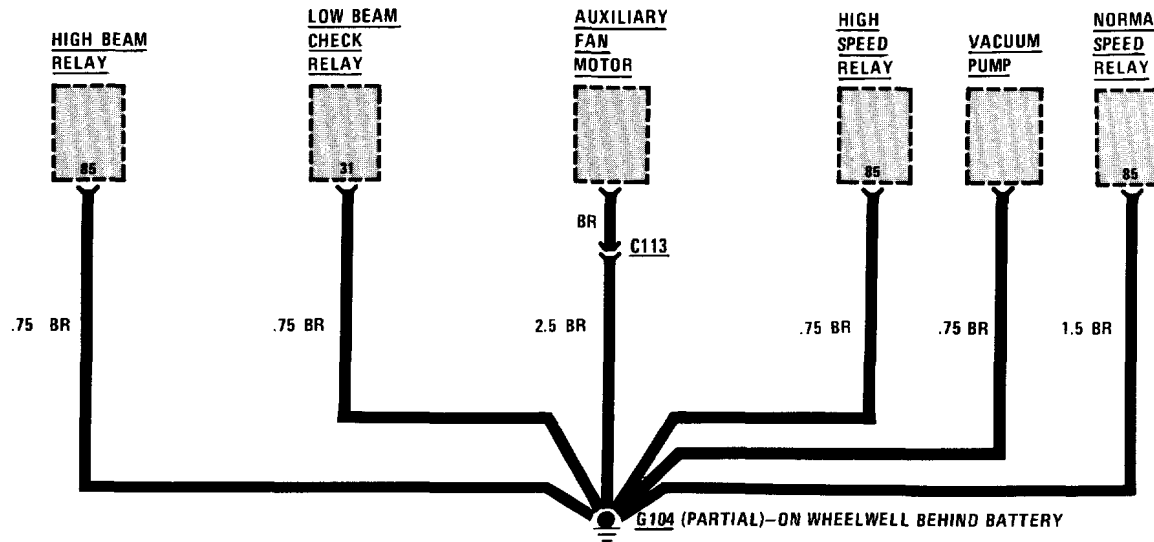


# AUTOMATIC HEATER-AIR CONDITIONER (TEMPERATURE CONTROL) 151

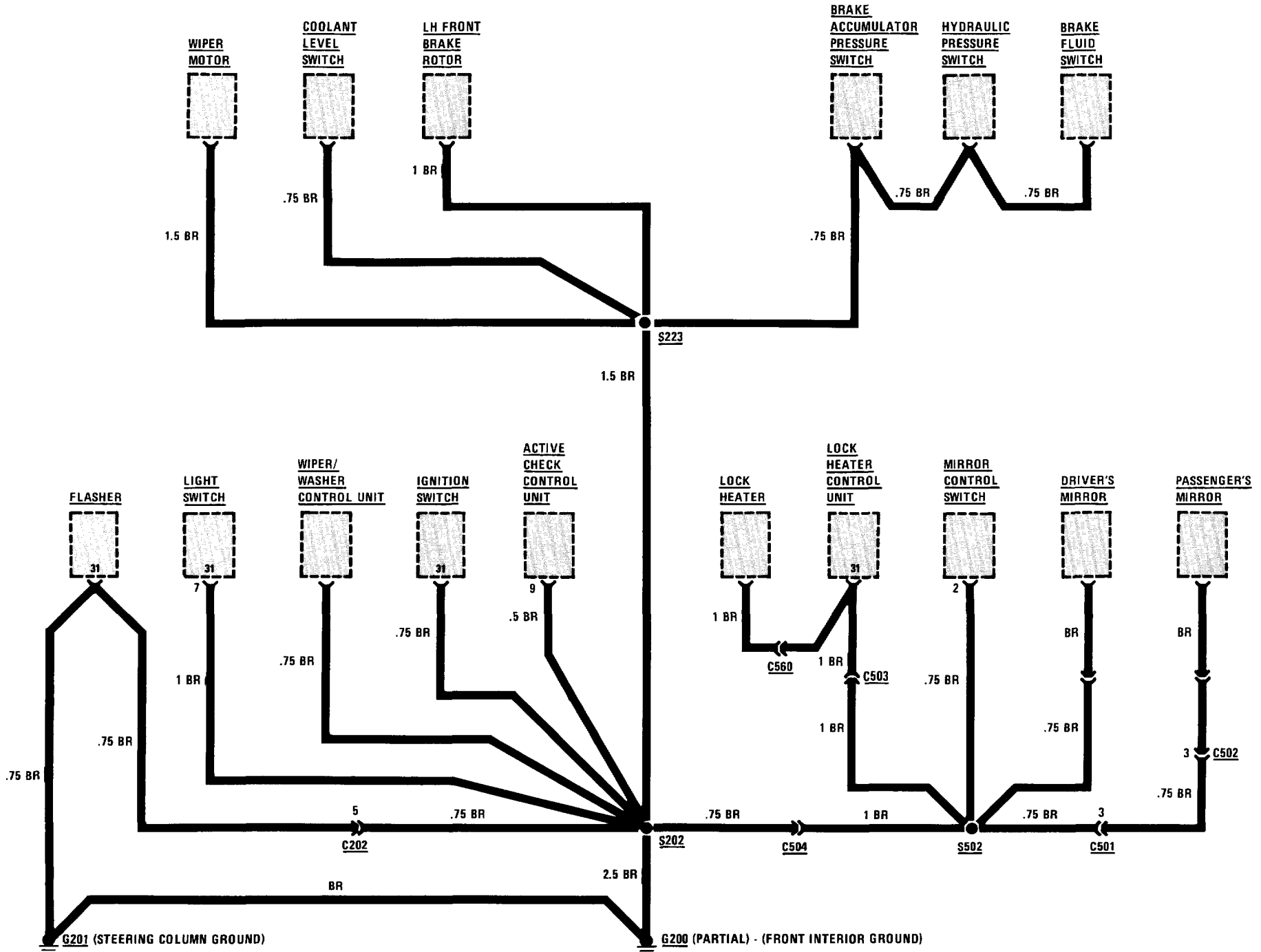
(For Component Locations See Page 201)

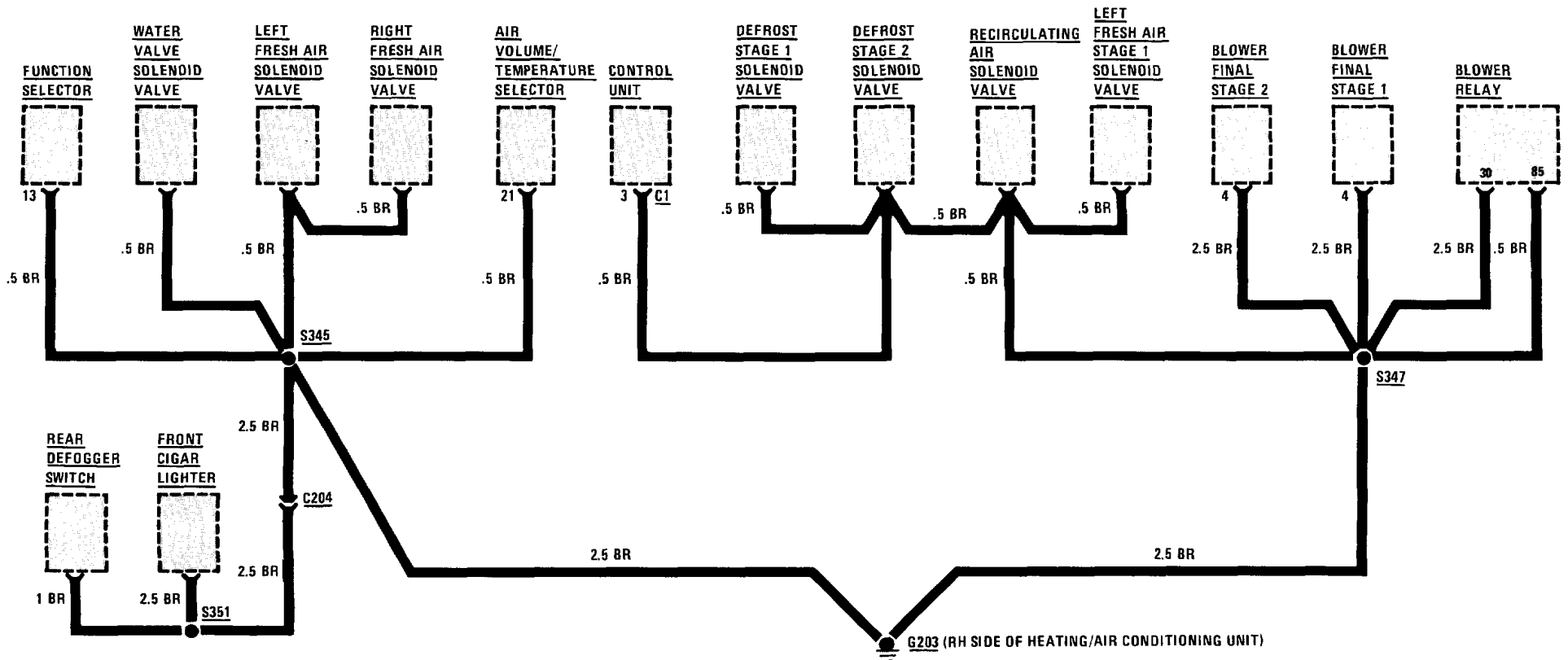
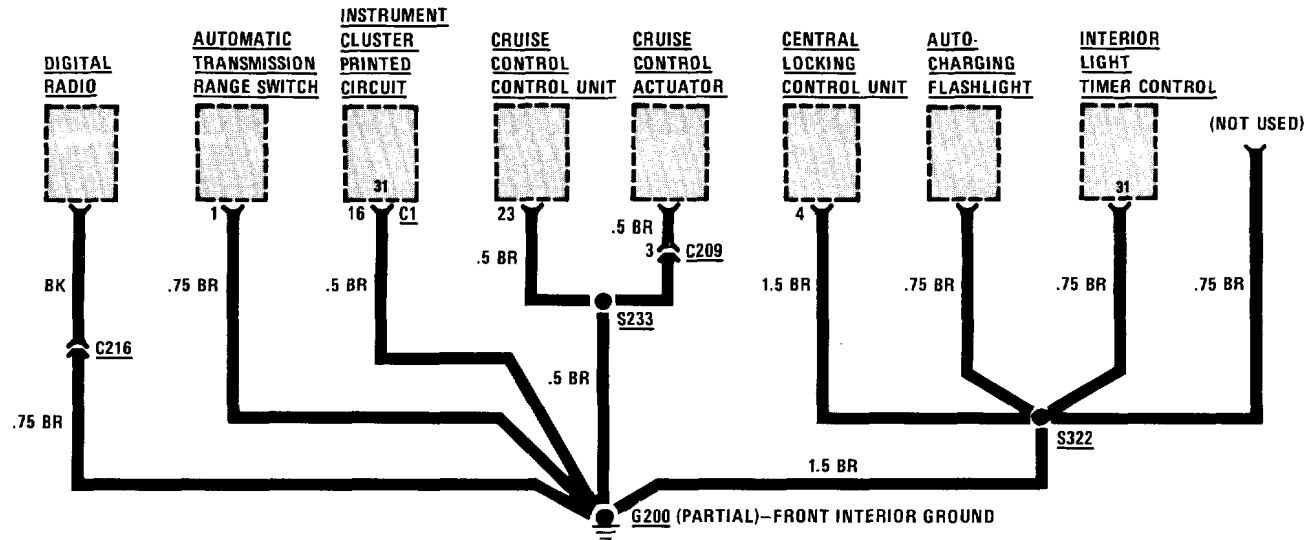






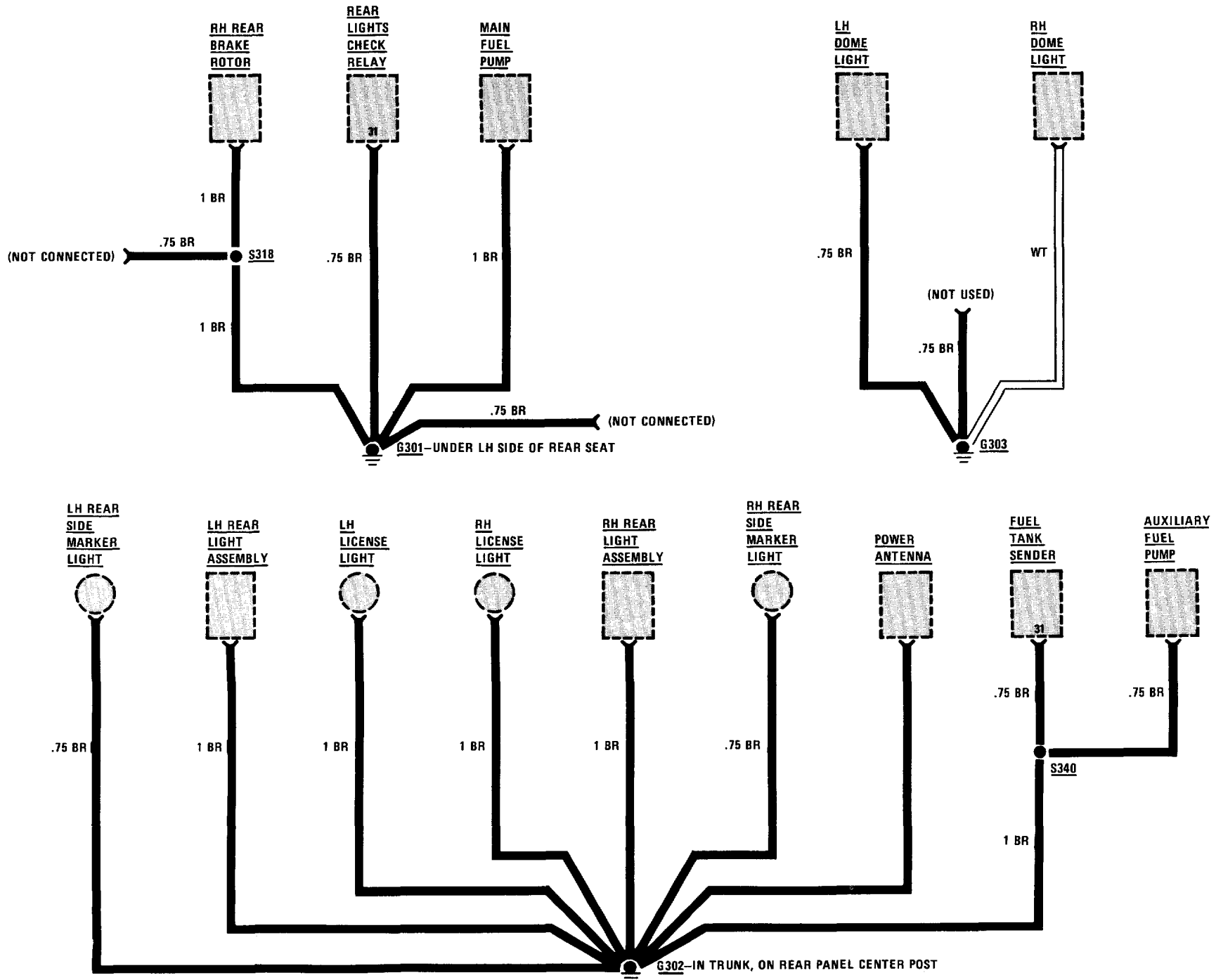
# 154 GROUND DISTRIBUTION







# 156 GROUND DISTRIBUTION



**ACTIVE CHECK CONTROL**

Active Check Control Unit .....	Dash, left of steering column .....	121-1
Brake Switch .....	Above brake pedal	
Coolant Level Switch .....	Top left side of coolant reservoir .....	209-1
Low Beam Check Relay .....	On left side of power distribution box .....	201-1
Oil Level Sensor .....	Bottom of engine oil pan	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Rear Lights Check Relay .....	Under left side of rear seat .....	207-2
Seatbelt Warning Timer .....	Under LH side of dash	
Washer Fluid Level Switch ....	Ahead of right front wheel well, in reservoir	
C101 (17 pin) .....	On right side of power distribution box.....	201-1
C102 (7 pin) .....	In power distribution box	
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C207 (1 pin) .....	Near brake switch	
C220 (13 pin) .....	Under LH dash, on body electrical bracket...	207-1
C250 (2 pin) .....	Under LH side of dash near brake switch	
G104 (Main Body Ground) ....	Left fender, behind headlights	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G301 (Rear Interior Ground) ..	Under left side of rear seat .....	207-2

**AUTOMATIC HEATER-AIR CONDITIONER**

A/C In-Line Fuse .....	Below dash, right of console .....	202-1
Air Inlet Temp. Sensor .....	Under center of fresh air intake cowl.....	213-5
Air Volume/Temp. Selector ...	Center of dash, in console.....	214-1
Blower Final Stage 1 .....	In right blower fan housing .....	204-1
Blower Final Stage 2 .....	In left blower fan housing .....	204-1
Blower Motor .....	Under center of fresh air intake cowl.....	201-2
Blower Relay .....	Under center of fresh air intake cowl.....	201-2
Compressor Relay .....	Under center of fresh air intake cowl.....	201-2
Control Unit .....	Left side of evaporator housing	
Coolant Temperature Sender ..	Front of engine, on thermostat housing ....	211-2
Defrost Stage 1 Solenoid Valve	Left side of evaporator housing	
Defrost Stage 2 Solenoid Valve	Left side of evaporator housing	
Evaporator Temp. Switch.....	On support stand for blower motor	
Footwell Solenoid Valve.....	Behind center console	
Function Selector.....	Center of dash, in console	
In-Car Temperature Sensor....	Center of dash, in console.....	205-2
LH Fresh Air Stage 1 Sol. Valve	Behind center console	
LH Fresh Air Stage 2 Sol. Valve	Left side of evaporator housing	

(Chart continued on next page)

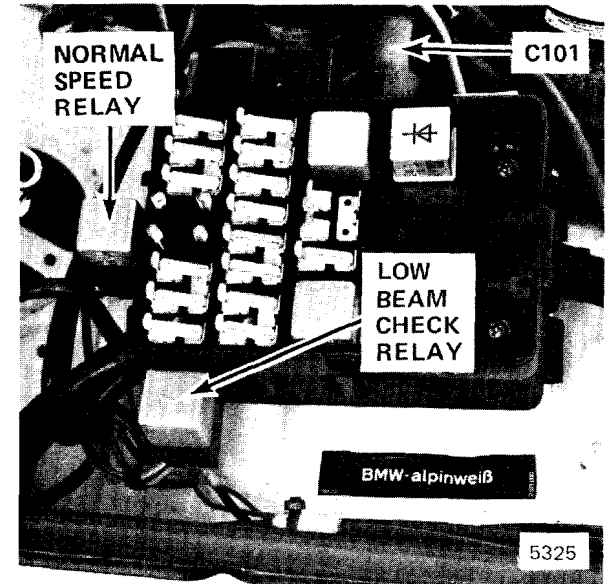


Figure 1 - Above Left Wheel Well

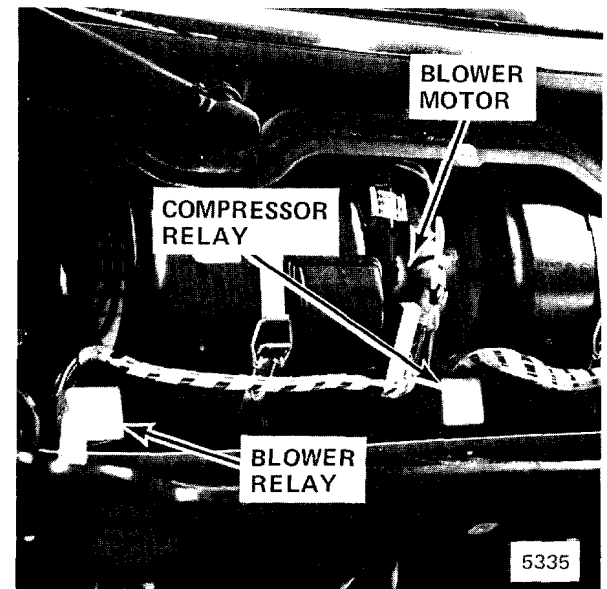


Figure 2 - Under Center Of Fresh Air Intake Cowl

## 202 COMPONENT LOCATIONS

(Continued)

Low Pressure Cutout Switch ..	On receiver-dryer below washer reservoir	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Rear Pass. Area Solenoid Valve	Behind center console	
Rear Passenger Area Switch...	Center of dash, in console.....	205-2
Recirculation Air Solenoid Valve .....	Left side of evaporator housing	
Right Fresh Air Solenoid Valve	Behind center console	
Vent Stage 1 Solenoid Valve ..	Behind center console	
Vent Stage 2 Solenoid Valve ..	Behind center console	
Water Valve Solenoid Valve ...	Kick panel, right of console.....	202-1
C105 (2 pin) .....	Behind right side of dash, above glove box ..	203-2
C106 (1 pin) .....	Near compressor clutch	
C204 (6 pin) .....	Behind center console	
C221 (12 pin).....	Below dash, right of console .....	202-1
C243 (1 pin) .....	Behind center console	
G200 (Front Interior Ground)..	On dash frame, left of steering column	

### AUXILIARY FAN/VACUUM PUMP

Auxiliary Fan Fuses .....	Left fender, left of battery .....	205-1
High Speed Relay.....	Left fender, left of battery .....	205-1
High Speed Temperature Switch .....	Lower right side of radiator (red terminals) ..	202-2
Normal Speed Blower Resistor	Ahead of radiator, on auxiliary fan shield	
Normal Speed Relay .....	On front side of power distribution box .....	201-1
Normal Speed Temperature Switch .....	Lower right side of radiator (white terminals)	202-2
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Vacuum Pump.....	Right of left front shock tower .....	213-4
C111 (2 pin) .....	Lower right side of radiator.....	202-2
C113 (3 pin) .....	On auxiliary fan shield	
G104 (Main Body Ground) ....	Left fender, behind headlights	

### BRAKE LINING WARNING

Power Distribution Box .....	Top front of left front wheel well .....	209-2
C206 (18 pin).....	Under LH dash, on body electrical bracket...	203-1
G200 (Front Interior Ground)..	On dash frame, left of steering column	
G301 (Rear Interior Ground) ..	Under left side of rear seat .....	207-2

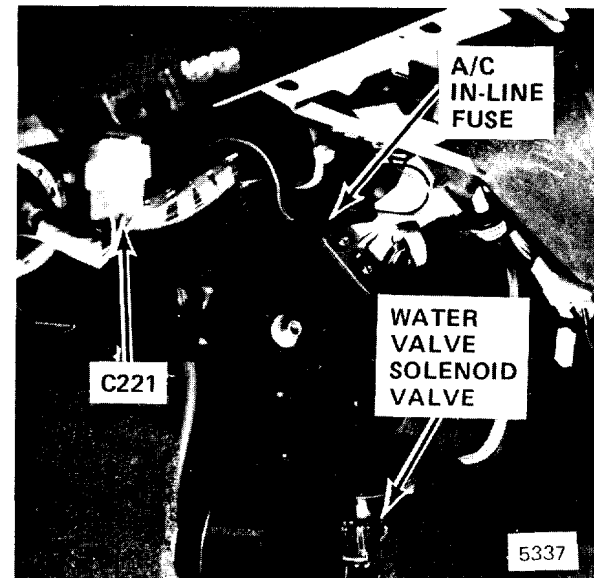


Figure 1 - Upper Right Side Of Console

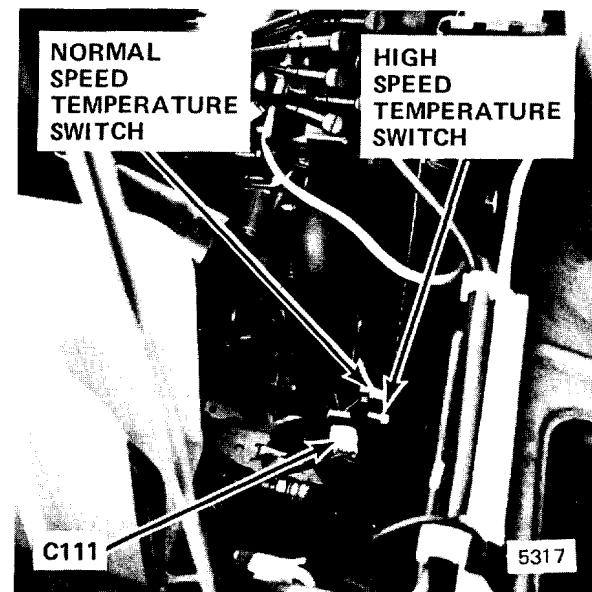


Figure 2 - Behind Right Headlights

**CENTRAL LOCKING**

Central Locking Control Unit ..	Under dash, above left speaker .....	213-6
Driver's Door Lock Motor .....	In left front door	
Gas Filler Lock Motor .....	In trunk, behind left rear wheel well .....	214-5
Ignition Switch .....	Upper part of steering column	
Left Rear Door Lock Motor ....	In left rear door .....	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Right Front Door Lock Motor	In right front door	
Right Rear Door Lock Motor ..	In right rear door	
Trunk Lock Motor.....	In trunk lid, near trunk lock	
C200 (6 pin) .....	Under LH dash, on body electrical bracket...	203-1
C206 (18 pin).....	Under LH dash, on body electrical bracket...	203-1
C220 (13 pin).....	Under dash, left of steering column .....	207-1
C304 (7 pin) .....	Base of left trunk hinge .....	210-2
C400 (7 pin) .....	Under LH dash, at body electrical bracket ...	
C401 (7 pin) .....	Under right side of dash, right of glove box .	214-2
C402 (3 pin) .....	In left center pillar	
C403 (3 pin) .....	In right center pillar	
C503 (8 pin) .....	In driver's door	
C505 (4 pin) .....	Under dash, left of steering column .....	207-1
C506 (2 pin) .....	In driver's door, taped to harness	
G200 (Front Interior Ground)..	On dash frame, left of steering column	

**CHARGING SYSTEM**

Active Check Control Unit .....	Dash, left of steering column .....	121-1
Diagnostic Connector.....	Top front of engine .....	213-3
Ignition Switch .....	Upper part of steering column	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Starter .....	Lower rear left side of engine	
C101 (17 pin).....	On right side of power distribution box.....	201-1
C200 (6 pin) .....	Under LH dash, on body electrical bracket...	203-1
G104 (Main Body Ground) ....	Left fender, behind headlights	

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

Auto-Charging Flashlight.....	Stored in glove box	
Glove Box Light Switch .....	Under right side of dash, above glove box ...	203-2

(Chart continued on next page)

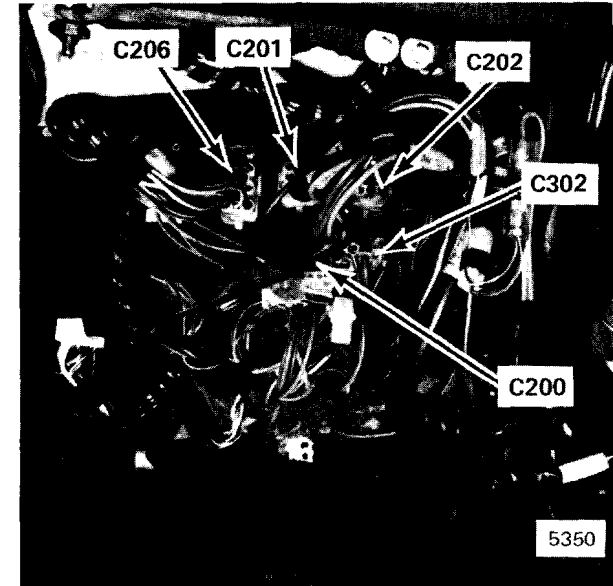


Figure 1 - Under LH Dash

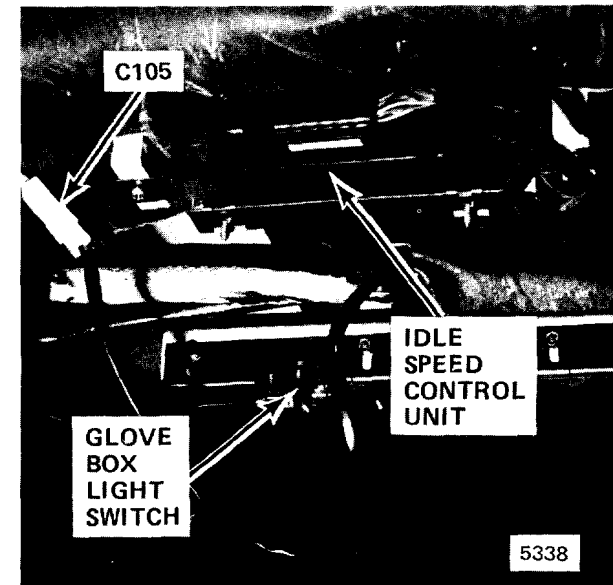


Figure 2 - Above Glove Box

## 204 COMPONENT LOCATIONS

(Continued)

Power Distribution Box .....	Top front of left front wheel well .....	209-2
C204 (6 pin) .....	Behind center console	
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C221 (12 pin) .....	Below dash, right of console .....	202-1
C302 (Accessory Connector) ..	Under LH dash, on body electrical bracket...	203-1
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G202 .....	Center console	

### DASH LIGHTS

Auto. Trans. Range Switch ....	On left side of shift lever	
Fog Light Switch .....	Under LH side of instrument cluster	
Hazard Switch .....	Dash, right of radio .....	214-1
On-Board Computer .....	Behind left speaker .....	208-2
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Rear Defogger Switch .....	Dash, left of radio.....	205-2
C204 (6 pin) .....	Behind center console	
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C215 (2 pin) .....	Behind radio	
C216 (2 pin) .....	Behind radio	
C221 (12 pin) .....	Below dash, right of console .....	202-1
C301 (3 pin) .....	In center console, ahead of shift lever	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G202 .....	Center console	

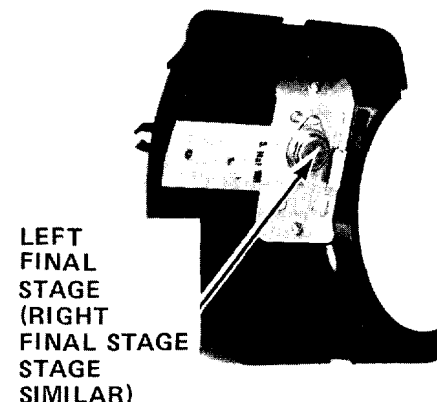
### FUEL CONTROL

Air Flow Meter .....	Top right side of engine .....	206-2
Main Relay .....	Behind right front shock tower.....	204-2
Motronic Control Unit .....	Behind right speaker .....	211-1
Oxygen Sensor .....	Rear of engine, in exhaust manifold.....	204-2
G103 (Engine Ground) .....	Top rear of engine .....	206-2

### FUEL DELIVERY/EVAPORATIVE CONTROL

Auxiliary Fuel Pump.....	Top left side of fuel tank, under trunk .....	214-4
Diagnostic Connector.....	Top front of engine .....	213-3
Fuel Pump Relay.....	On right side of power distribution box.....	209-2

(Chart continued on next page)



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Figure 1 - Removed Left Blower Fan Housing Cover

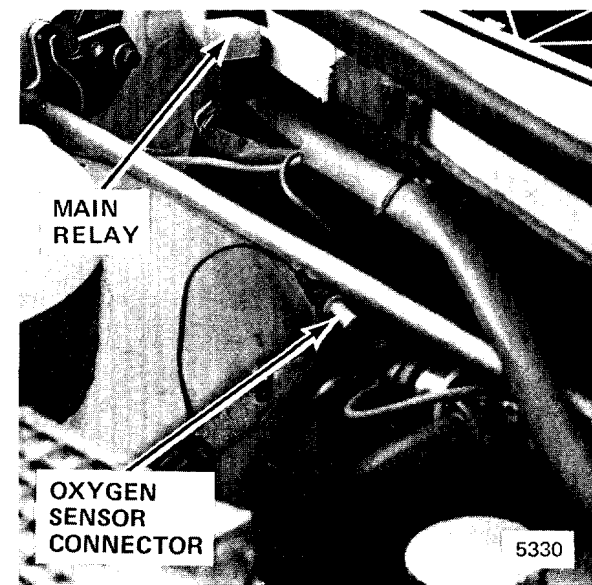


Figure 2 - Behind Right Front Shock Tower

(Continued)

Ignition Switch .....	Upper part of steering column	
Main Fuel Pump .....	Under car, ahead of left rear axle	
Main Relay .....	Behind right front shock tower.....	204-2
Motronic Control Unit .....	Behind right speaker .....	211-1
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Purge Valve Relay .....	On right side of power distribution box.....	209-2
Purge Valve .....	Right of power distribution box .....	213-4
C101 (17 pin).....	On right side of power distribution box.....	201-1
C103 (6 pin) .....	Behind right speaker .....	211-1
C200 (6 pin) .....	Under LH dash, on body electrical bracket...	203-1
C206 (18 pin).....	Under LH dash, on body electrical bracket...	203-1
C212 (1 pin) .....	Under left side of dash, near steering column	
G103 (Engine Ground) .....	Top rear of engine .....	206-2
G104 (Main Body Ground) ....	Left fender, behind headlights	
G301 (Rear Interior Ground) ..	Under left side of rear seat .....	207-2
G302 (Trunk Ground) .....	In trunk, on rear panel center support.....	208-1



Figure 1 - Ahead Of Left Front Wheel Well

**HEADLIGHT (CONTROL/POWER)/FOG LIGHTS (CONTROL/POWER)**

Active Check Control Unit .....	Dash, left of steering column .....	121-1
Combination Switch .....	Upper left side of steering column .....	206-1
Fog Light Switch .....	Under LH side of instrument cluster	
Low Beam Check Relay .....	On left side of power distribution box .....	201-1
Power Distribution Box .....	Top front of left front wheel well .....	209-2
C102 (7 pin) .....	In power distribution box	
C107 (2 pin) .....	Taped to harness, left of battery .....	205-1
C202 (12 pin).....	Under LH dash, on body electrical bracket...	203-1
G104 (Main Body Ground) ....	Left fender, behind headlights	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	

**HORN/HEATED DOOR LOCK**

Lock Heater Control Unit .....	In left front door	
Lock Heater .....	In left front door	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
C201 (9 pin) .....	Under LH dash, on body electrical bracket...	203-1
C206 (18 pin).....	Under LH dash, on body electrical bracket...	203-1
C400 (7 pin) .....	Under LH dash, at body electrical bracket	

(Chart continued on next page)

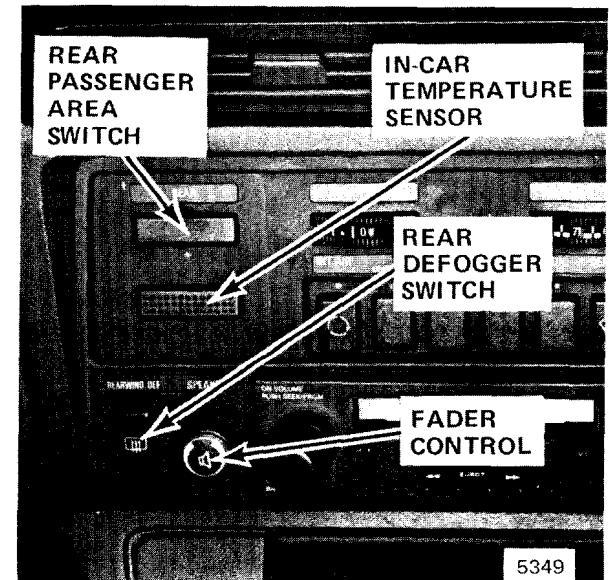


Figure 2 - Center Of Dash

(Continued)

C503 (8 pin) .....	In driver's door	
C504 (2 pin) .....	Under dash, left of steering column	
C560 (2 pin) .....	In driver's door	
G104 (Main Body Ground) ....	Left fender, behind headlights	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G201 (Column Ground) .....	Upper left side of steering column .....	206-1

**IDLE SPEED CONTROL**

0°C Temperature Switch .....	On left inlet of blower motor housing .....	212-2
Auto. Trans. Range Switch ....	On left side of shift lever	
Coolant Temperature Sensor ..	Front of engine, top of thermostat housing ..	211-2
Coolant Temperature Switch ..	Front of engine, top of thermostat housing ..	211-2
Diagnostic Connector.....	Top front of engine .....	213-3
Engine Speed Sensor .....	On transmission bell housing .....	206-2
Idle Control Valve .....	Top center of engine .....	213-2
Idle Speed Control Unit .....	Under right side of dash, above glove box...	203-2
Motronic Control Unit .....	Behind right speaker .....	211-1
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Throttle Switch .....	Top LH side of engine, below throttle body ..	213-2
C101 (17 pin).....	On right side of power distribution box.....	201-1
C103 (6 pin) .....	Behind right speaker .....	211-1
C104 (2 pin) .....	Behind right speaker .....	211-1
C206 (18 pin).....	Under LH dash, on body electrical bracket...	203-1
C301 (3 pin) .....	In center console, ahead of shift lever	
G103 (Engine Ground).....	Top rear of engine .....	206-2

**IGNITION**

Diagnostic Connector.....	Top front of engine .....	213-3
Ignition Coil .....	On right fender, behind headlights	
Ignition Switch .....	Upper part of steering column	
Motronic Control Unit .....	Behind right speaker .....	211-1
Reference Point Sensor .....	On transmission bell housing .....	206-2
C101 (17 pin).....	On right side of power distribution box.....	201-1
C109 (1 pin) .....	Taped to harness, near ignition coil	
C200 (6 pin) .....	Under LH dash, on body electrical bracket...	203-1
G103 (Engine Ground).....	Top rear of engine .....	206-2

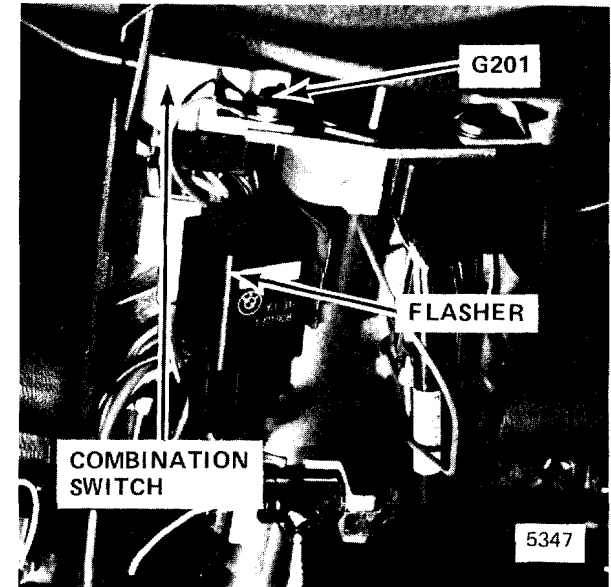


Figure 1 - Upper Underside Of Column

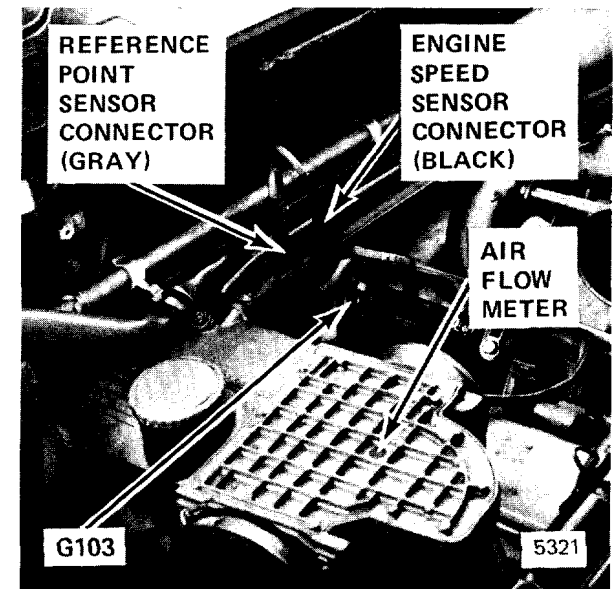


Figure 2 - Top Rear Of Engine

**IGNITION KEY WARNING/SEATBELT WARNING**

Active Check Control Unit .....	Dash, left of steering column .....	121-1
Ignition Key Switch .....	In upper part of steering column	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Seatbelt Switch .....	In driver's seatbelt buckle	
Seatbelt Warning Timer .....	Under LH side of dash	
Warning Buzzer .....	Upper left side of steering column .....	212-1
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C220 (13 pin) .....	Under LH dash, on body electrical bracket...	207-1
C304 (7 pin) .....	Base of left trunk hinge .....	210-2
G200 (Front Interior Ground) ..	On dash frame, left of steering column	

**INTERIOR LIGHTS**

Interior Light Timer .....	Under LH dash, on body electrical bracket...	213-6
Lock Heater Control Unit .....	In left front door	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C303 (2 pin) .....	In headliner, above LH dome light .....	214-3
C503 (8 pin) .....	In driver's door	
C504 (2 pin) .....	Under dash, left of steering column	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G303 .....	Above left B pillar	

**LIGHTS: BACKUP/TRANSMISSION RANGE**

Auto. Trans. Range Switch ....	On left side of shift lever	
Backup Light Switch .....	On left side of manual transmission	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C301 (3 pin) .....	In center console, ahead of shift lever	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G302 (Trunk Ground) .....	In trunk, on rear panel center support .....	208-1

**LIGHTS: FRONT PARK/TAIL/UNDERHOOD**

Active Check Control Unit .....	Dash, left of steering column .....	121-1
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Rear Lights Check Relay .....	Under left side of rear seat .....	207-2

(Chart continued on next page)

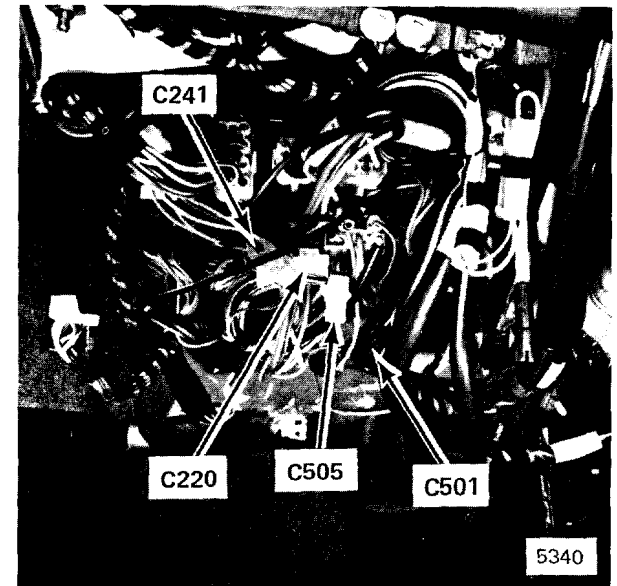


Figure 1 - Under Left Side Of Dash

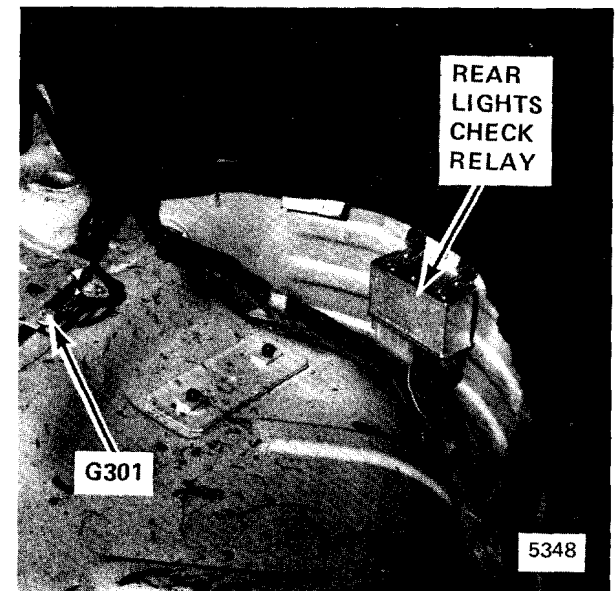


Figure 2 - Under Left Side Of Rear Seat



## 208 COMPONENT LOCATIONS

(Continued)

Underhood Light Switch .....	Under RH rear corner of hood, near latch plate	
C110 (1 pin) .....	Behind right headlights .....	213-1
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
G104 (Main Body Ground) ....	Left fender, behind headlights	
G301 (Rear Interior Ground) ..	Under left side of rear seat .....	207-2
G302 (Trunk Ground) .....	In trunk, on rear panel center support .....	208-1

### LIGHTS: REAR MARKER/LICENSE/TRUNK

Active Check Control Unit .....	Dash, left of steering column .....	121-1
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Trunk Light Switch .....	In trunk lid, near trunk lock	
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C220 (13 pin) .....	Under dash, left of steering column .....	207-1
C300 (1 pin) .....	Base of left trunk hinge .....	210-2
G301 (Rear Interior Ground) ..	Under left side of rear seat .....	207-2
G302 (Trunk Ground) .....	In trunk, on rear panel center support .....	208-1

### LIGHTS: TURN/HAZARD WARNING

Combination Switch .....	Upper left side of steering column .....	206-1
Flasher .....	Upper left side of steering column .....	206-1
Hazard Switch .....	Dash, right of radio .....	214-1
Power Distribution Box .....	Top front of left front wheel well .....	209-2
C102 (7 pin) .....	In power distribution box	
C202 (12 pin) .....	Under LH dash, on body electrical bracket...	203-1
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
G104 (Main Body Ground) ....	Left fender, behind headlights	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G201 (Column Ground) .....	Upper left side of steering column .....	206-1
G302 (Trunk Ground) .....	In trunk, on rear panel center support .....	208-1

### ON-BOARD COMPUTER

Alarm Horn .....	Ahead of RH side of coolant reservoir .....	213-4
Chime .....	Top center of dash, under grill	

(Chart continued on next page)

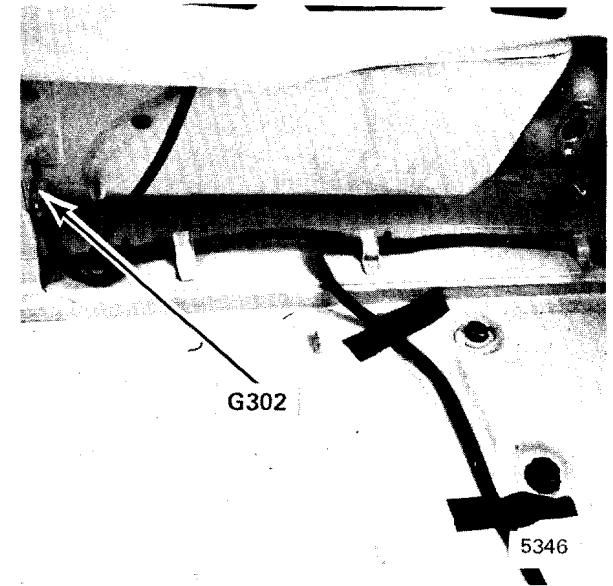


Figure 1 - Rear Left Side Of Trunk

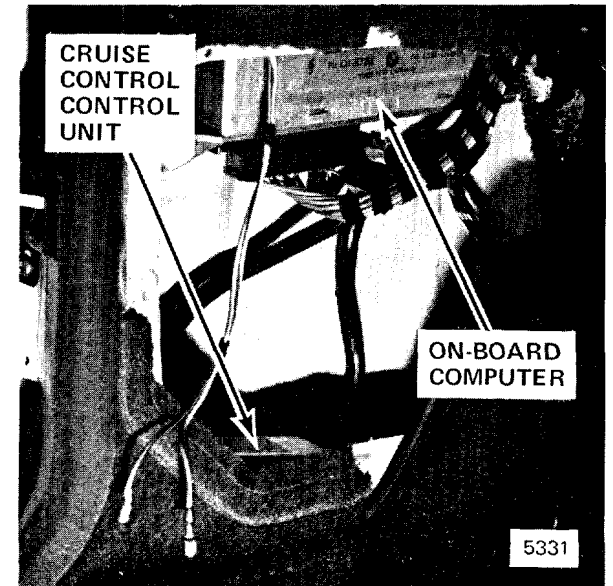


Figure 2 - Behind Left Speaker

(Continued)

Control Panel .....	Center of dash .....	214-1
Filter Capacitor .....	Ahead of coolant reservoir .....	213-4
Ignition Switch .....	Upper part of steering column .....	
Main Relay .....	Behind right front shock tower .....	204-2
On-Board Computer .....	Behind left speaker .....	208-2
Outside Temperature Sender ..	Under front bumper, left side .....	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
C103 (6 pin) .....	Behind right speaker .....	211-1
C200 (6 pin) .....	Under LH dash, on body electrical bracket...	203-1
C212 (1 pin) .....	Under left side of dash, near steering column	
C220 (13 pin) .....	Under dash, left of steering column .....	207-1
C235 (1 pin) .....	Under left side of dash, near steering column	
C236 (2 pin) .....	Under left side of dash, near steering column	
C237 (3 pin) .....	Behind brake fluid reservoir .....	209-1
C238 (1 pin) .....	Near body electrical bracket .....	
C239 (4 pin) .....	Near body electrical bracket .....	
C240 (1 pin) .....	Taped to harness, near body electrical bracket	
C242 (2 pin) .....	Near body electrical bracket .....	
G103 (Engine Ground) .....	Top rear of engine .....	206-2
G104 (Main Body Ground) .....	Left fender, behind headlights .....	
G200 (Front Interior Ground) ..	On dash frame, left of steering column .....	

**POWER DISTRIBUTION**

Combination Switch .....	Upper left side of steering column .....	206-1
Diagnostic Connector .....	Top front of engine .....	213-3
Ignition Switch .....	In upper part of steering column .....	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Starter .....	Lower rear left side of engine .....	
C200 (6 pin) .....	Under LH dash, on body electrical bracket...	203-1
C202 (12 pin) .....	Under LH dash, on body electrical bracket...	203-1
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C221 (12 pin) .....	Below dash, right of console .....	202-1
C302 (Accessory Connector) ..	Under LH dash, on body electrical bracket...	203-1
G104 (Main Body Ground) .....	Left fender, behind headlights	

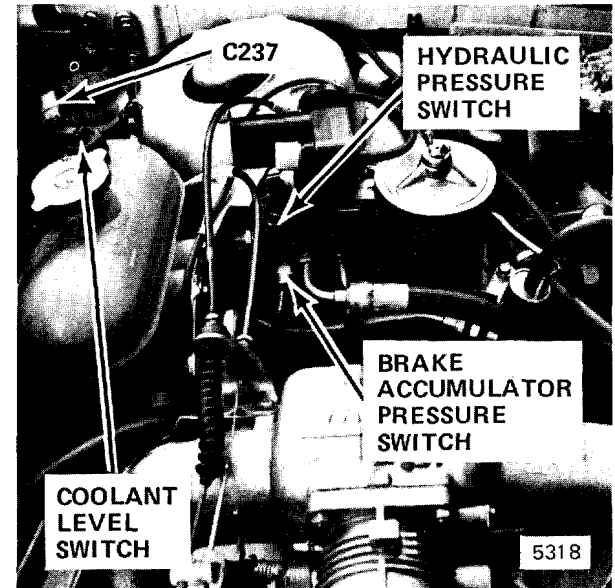


Figure 1 - Left Rear Of Engine Compartment



Figure 2 - Top Left Front Wheel Well

## POWER MIRRORS

Mirror Control Switch.....	On driver's door, above arm rest	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
C501 (4 pin) .....	Under dash, left of steering column .....	207-1
C502 (7 pin) .....	Under right side of dash, right of glove box	214-2
C504 (2 pin) .....	Under dash, left of steering column	
G200 (Front Interior Ground)..	On dash frame, left of steering column	

## POWER WINDOWS

Power Distribution Box .....	Top front of left front wheel well .....	209-2
Power Window Circuit Breaker	Below dash, left of console .....	210-1
Power Window Relay .....	Under LH dash, on body electrical bracket...	
Rear Window Switches .....	In rear doors	
Safety Switch .....	On shift console	
Window Console Switches ....	On shift console	
Window Motors .....	In each door	
C400 (7 pin) .....	Under LH dash, at body electrical bracket ...	
C401 (7 pin) .....	Under right side of dash, right of glove box .	214-2
C402 (3 pin) .....	In left center pillar	
C403 (3 pin) .....	In right center pillar	
G200 (Front Interior Ground)..	On dash frame, left of steering column	

## RADIO/POWER ANTENNA

Fader Control .....	Dash, left of radio.....	205-2
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Radio In-Line Fuse.....	Behind radio	
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C215 (2 pin) .....	Behind radio	
C216 (2 pin) .....	Behind radio	
C217 (2 pin) .....	Behind radio	
C218 (2 pin) .....	Behind radio	
C222 (1 pin) .....	Behind radio	
C302 (Accessory Connector)..	Under LH dash, on body electrical bracket...	203-1
G200 (Front Interior Ground)..	On dash frame, left of steering column	
G302 (Trunk Ground) .....	In trunk, on rear panel center support .....	208-1

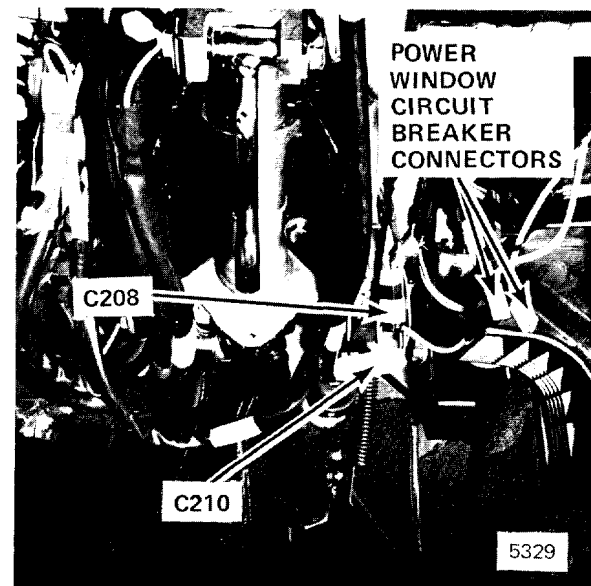


Figure 1 - Under Dash, Left Of Console

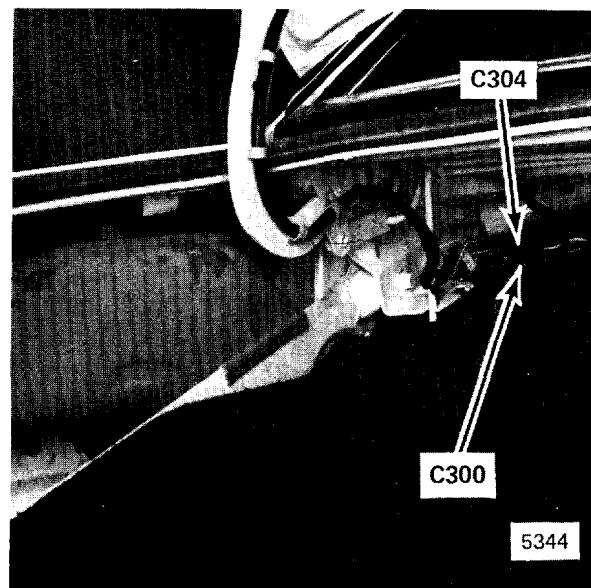


Figure 2 - Front Left Side Of Trunk

**REAR DEFOGGER/SUNROOF**

Drive Motor .....	Behind header, above rear view mirror	
Limit Switch .....	Behind header, above rear view mirror	
Motor Relay .....	Behind header, above rear view mirror	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Rear Defogger Switch .....	Dash, left of radio.....	205-2
Sunroof Switch .....	Above rear view mirror	
C204 (6 pin) .....	Behind center console	
C206 (18 pin).....	Under LH dash, on body electrical bracket...	203-1
C221 (12 pin).....	Below dash, right of console .....	202-1
C302 (Accessory Connector) ..	Under LH dash, on body electrical bracket...	203-1
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G600 .....	Near sunroof switch	

**SPEEDOMETER/GAUGES/WARNING INDICATORS**

Active Check Control Unit .....	Dash, left of steering column	
Brake Accum. Pres. Switch ....	Right of right front shock tower.....	209-1
Brake Fluid Level Switch .....	To left of engine, on brake fluid reservoir	
Coolant Temperature Sender ..	Front of engine, on thermostat housing .....	211-2
Diagnostic Connector.....	Top front of engine .....	213-3
Fuel Tank Sender .....	Top left side of fuel tank, under trunk .....	214-4
Hydraulic Pressure Switch ....	Right of right front shock tower.....	209-1
Ignition Switch .....	Upper part of steering column	
Motronic Control Unit .....	Behind right speaker .....	211-1
Oil Pressure Switch .....	Left rear end of cylinder head	
Parking Brake Switch .....	In shift console, at base of parking brake	
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Speedometer Sender .....	In rear of differential	
C101 (17 pin).....	On right side of power distribution box.....	201-1
C103 (6 pin) .....	Behind right speaker .....	211-1
C200 (6 pin) .....	Under LH dash, on body electrical bracket...	203-1
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G302 (Trunk Ground) .....	In trunk, on rear panel center support.....	208-1

**START**

Auto. Trans. Range Switch ....	On left side of shift lever	
Cold Start Valve .....	Between intake ports 3 and 4	
Diagnostic Connector.....	Top front of engine .....	213-3
Ignition Switch .....	Upper part of steering column	

(Chart continued on next page)

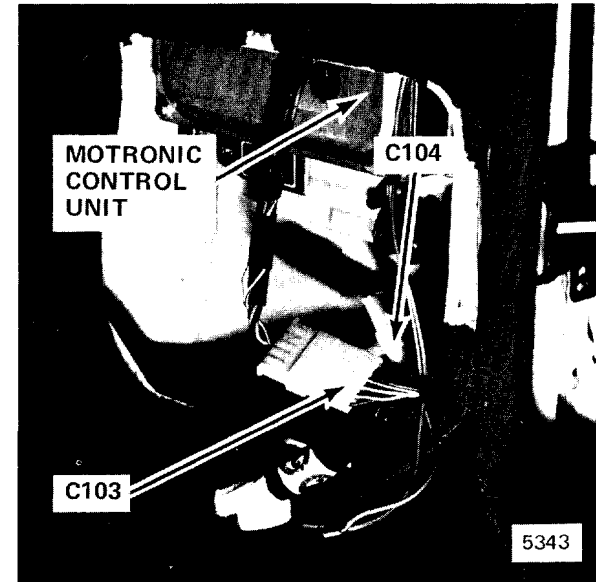


Figure 1 - Behind Right Speaker

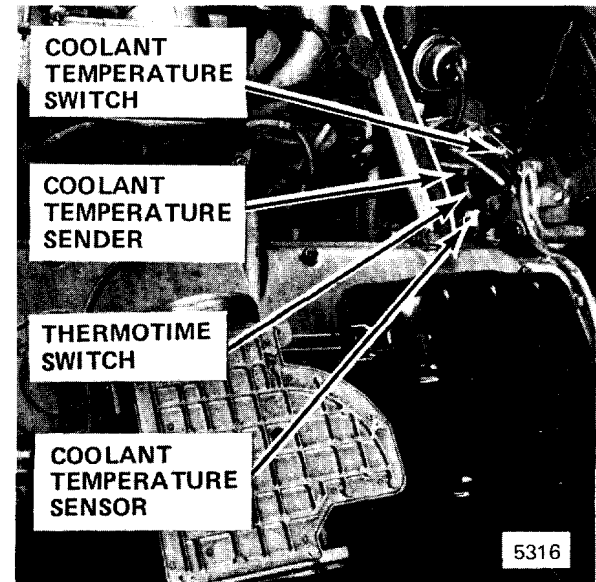


Figure 2 - Top Front Of Engine

(Continued)

Power Distribution Box .....	Top front of left front wheel well .....	209-2
Start Relay .....	Under LH dash, on body electrical bracket	
Starter .....	Lower rear left side of engine	
Thermotime Switch .....	Front of engine, top of thermostat housing ..	211-2
C101 (17 pin) .....	On right side of power distribution box .....	201-1
C200 (6 pin) .....	Under LH dash, on body electrical bracket...	203-1
C241 (1 pin) .....	Under dash, left of steering column .....	207-1
G104 (Main Body Ground) ....	Left fender, behind headlights	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	

## STOPLIGHTS/CRUISE CONTROL

Active Check Control Unit .....	Dash, left of steering column .....	121-1
Auto. Trans. Range Switch ....	On left side shift lever	
Brake Switch .....	Above brake pedal	
Clutch Switch .....	Above clutch pedal	
Cruise Control Actuator .....	Right of power distribution box .....	205-1
Cruise Control Control Unit ...	Behind left speaker .....	208-2
Cruise Control Switch .....	Upper right side of steering column .....	212-1
Power Distribution Box .....	Top front of left front wheel well .....	209-2
Rear Lights Check Relay .....	Under left side of rear seat .....	207-2
C206 (18 pin) .....	Under LH dash, on body electrical bracket...	203-1
C207 (1 pin) .....	Near brake switch	
C208 (1 pin) .....	Above accelerator pedal .....	210-1
C209 (7 pin) .....	Under dash, above left speaker .....	213-6
C210 (4 pin) .....	Above accelerator pedal .....	210-1
C220 (13 pin) .....	Under dash, left of steering column .....	207-1
C250 (2 pin) .....	Under LH side of dash near brake switch	
C301 (3 pin) .....	In center console, ahead of shift lever	
G200 (Front Interior Ground) ..	On dash frame, left of steering column	
G301 (Rear Interior Ground) ..	Under left side of rear seat .....	207-2
G302 (Trunk Ground) .....	In trunk, on rear panel center support .....	208-1

## WIPER-WASHER

Power Distribution Box .....	Top front of left front wheel well .....	209-2
Washer Pump .....	Ahead of right front wheel well, in reservoir	
Wiper Motor .....	Under left side fresh air intake cowl .....	212-2
Wiper/Washer Switch .....	Upper right side of steering column .....	212-1
C201 (9 pin) .....	Under LH dash, on body electrical bracket...	203-1
G200 (Front Interior Ground) ..	On dash frame, left of steering column	

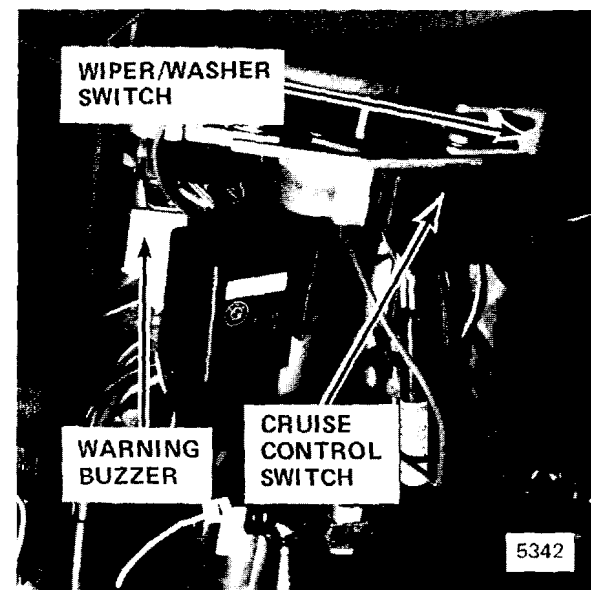


Figure 1 - Upper Underside Of Column

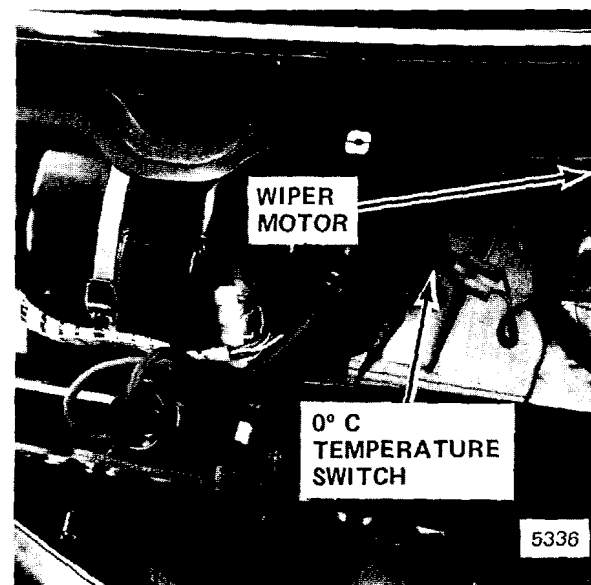


Figure 2 - Under Center Of Fresh Air Intake Cowl

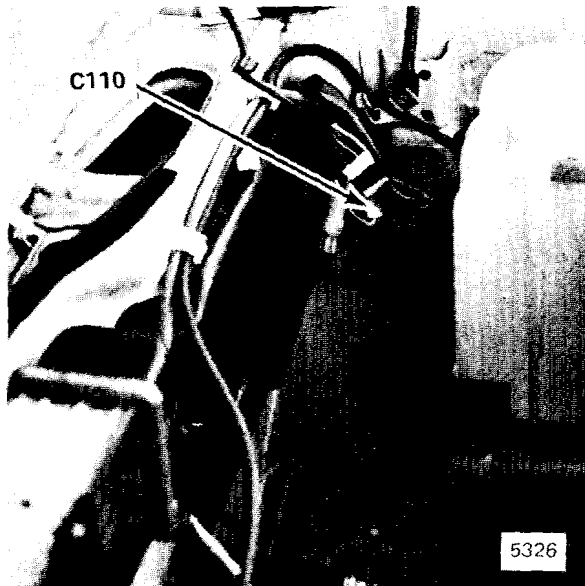


Figure 1 - Behind Right Headlights

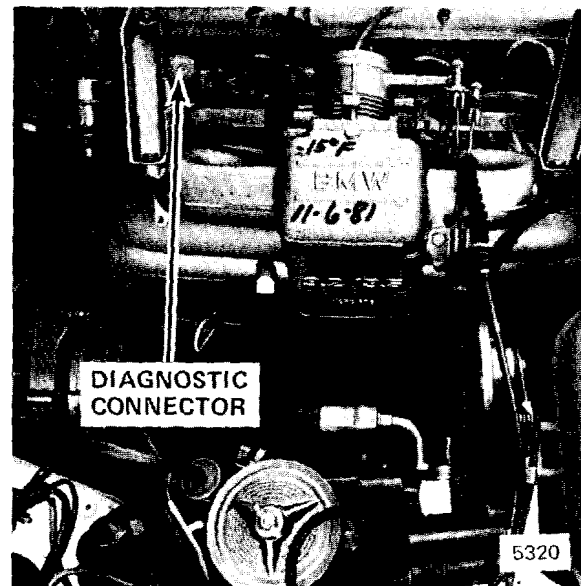


Figure 3 - Top Left Side Of Engine



Figure 5 - Under Center Of Fresh Air Intake Cowl

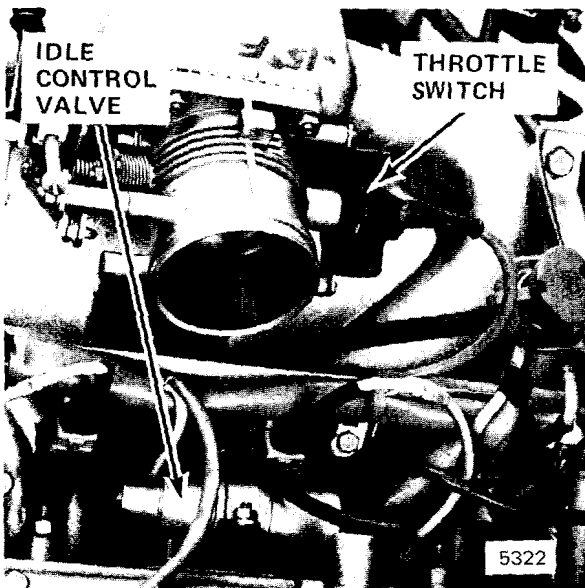


Figure 2 - Top Center Of Engine

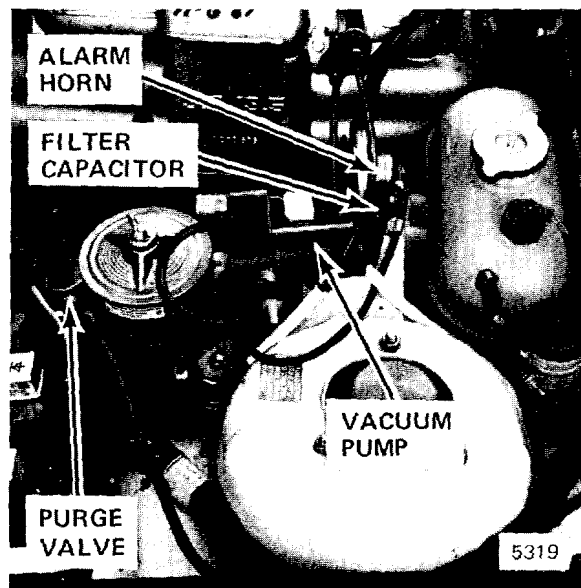


Figure 4 - Left Rear Of Engine Compartment

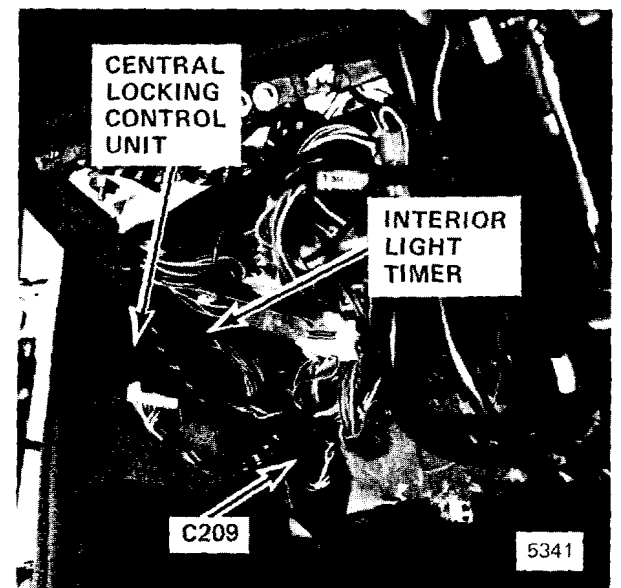


Figure 6 - Under Left Side Of Dash

# 214 COMPONENT LOCATIONS

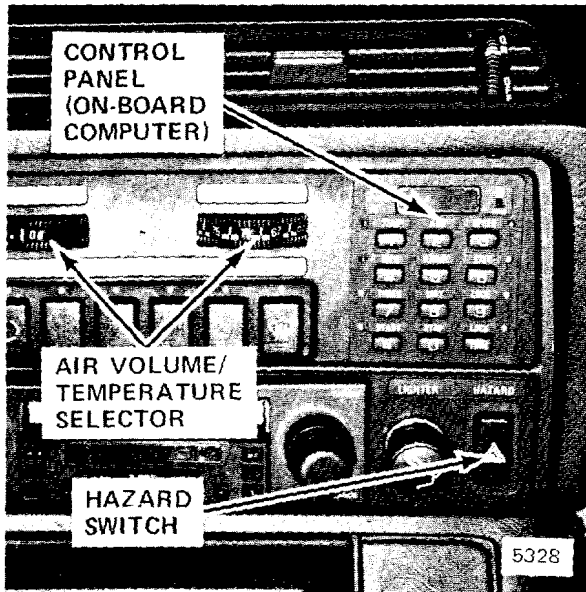


Figure 1 - Center Of Dash

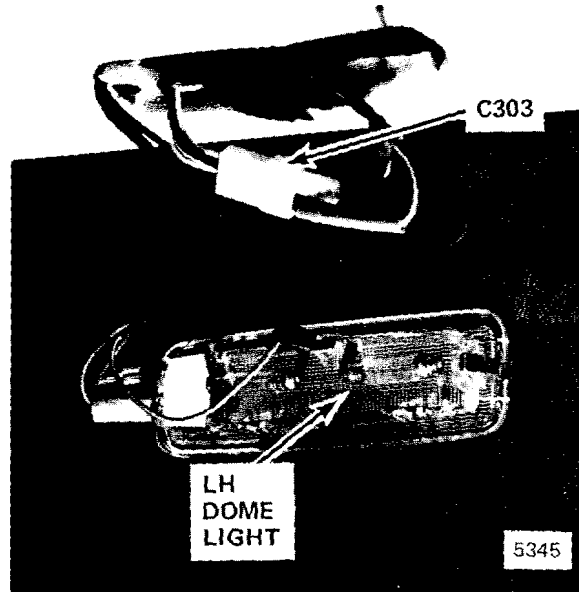


Figure 3 - Header, Above Left B Pillar

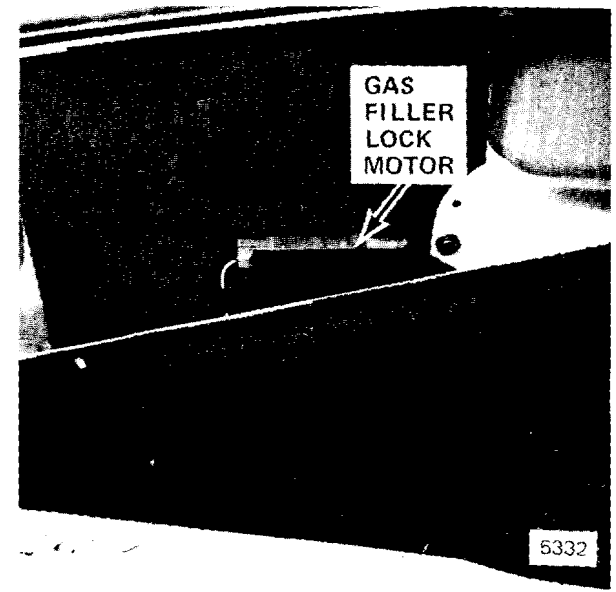


Figure 5 - Behind Left Rear Wheel Well

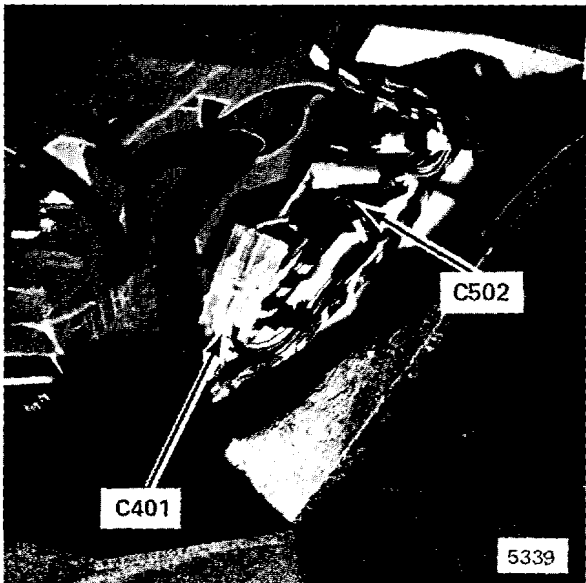


Figure 2 - Right Of Glove Box

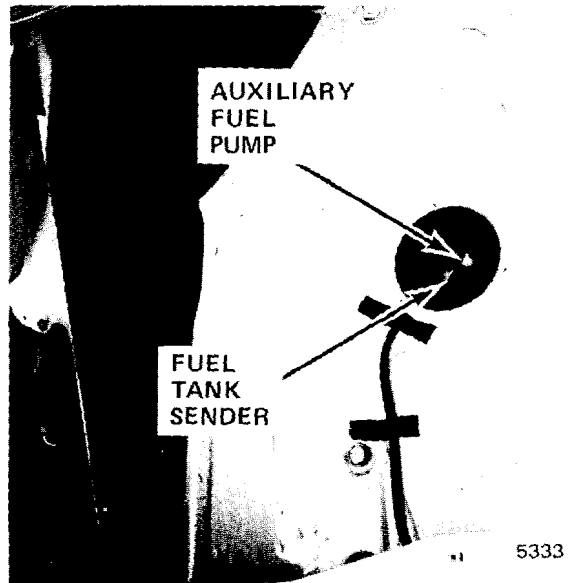


Figure 4 - Bottom Left Side Of Trunk

