



---

**1984**

---

**BMW 733i**

---

**Electrical**

---

**Troubleshooting**

---

**Manual**

---

BMW of North America, Inc.  
Montvale, New Jersey

## FOREWORD

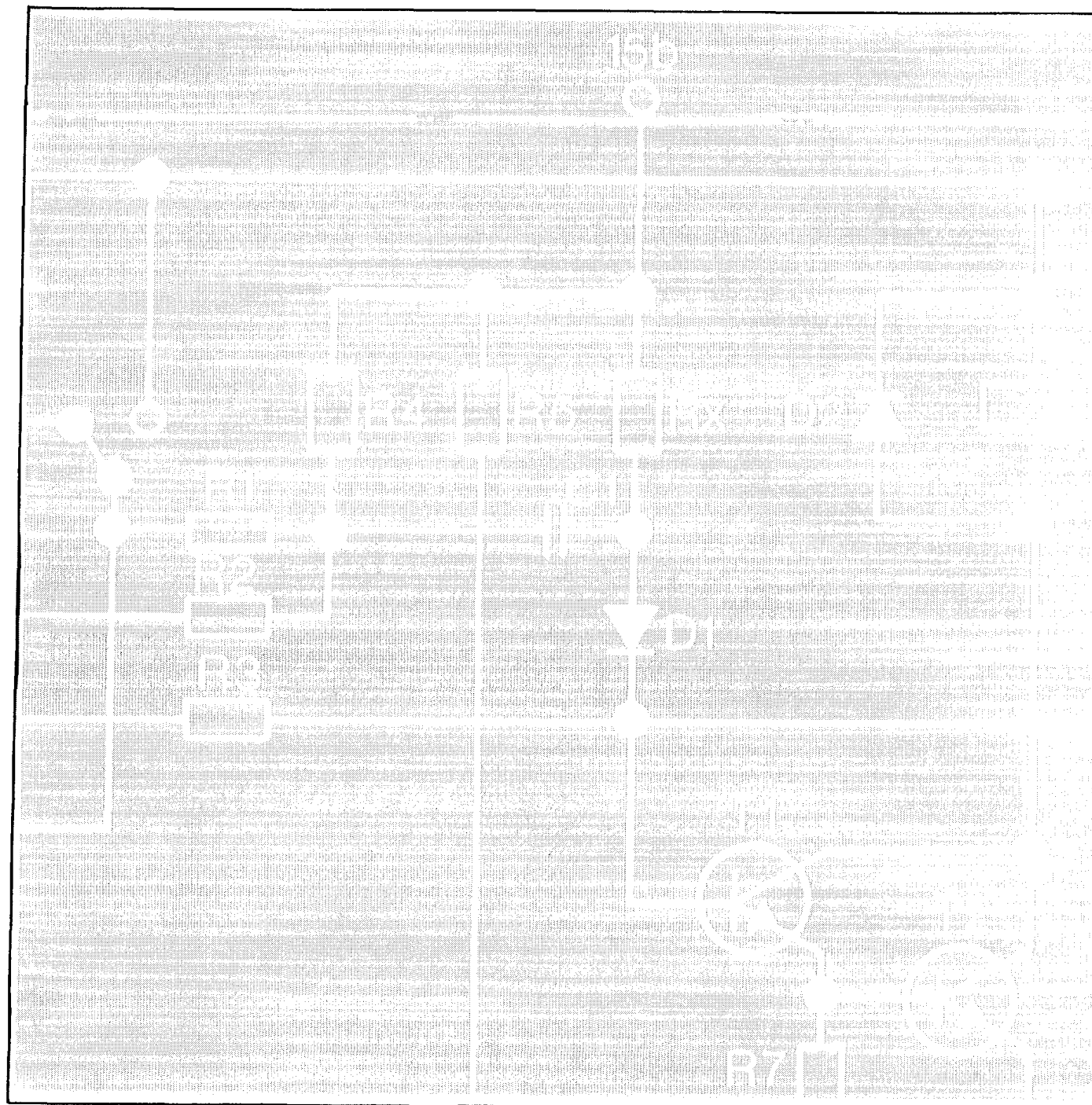
In the interests of continuing technical development work we reserve the right to modify designs and equipment.

Printed in USA

©Copyright BMW of North America, Inc.  
May 1984

Not to be reproduced wholly or in part  
without written permission of BMW of  
North America, Inc.

PN 01 00 1 467 797



**1984  
BMW 733i  
Electrical  
Troubleshooting  
Manual**

---

**CONTENTS**

---

|                                       |     |
|---------------------------------------|-----|
| Index .....                           | 2   |
| How To Use This Manual .....          | 3   |
| Symbols .....                         | 4   |
| Wire Size Conversion Chart ...        | 5   |
| Systematic Troubleshooting ...        | 6   |
| Diagnostic Connector .....            | 101 |
| Power Distribution Box .....          | 102 |
| Fuse Data .....                       | 103 |
| Schematic Diagrams .....              | 104 |
| Component Charts and<br>Figures ..... | 201 |

---

### Index—Alphabetical Listing of Electrical Circuits

|  | SCHEMATIC PAGE |                                     | SCHEMATIC PAGE |
|--|----------------|-------------------------------------|----------------|
| Accessory Connector .....              | 155            | Lights (continued)                  |                |
| Active Check Control .....             | 123            | —Glove Box .....                    | 140            |
| Air Conditioning .....                 | 149            | —Hazard Warning .....               | 130            |
| Auto-Charging Flashlight .....         | 140            | —Headlights .....                   | 128            |
| Automatic Heater-Air Conditioner ..... | 149            | —Interior .....                     | 127            |
| Auxiliary Fan .....                    | 148            | —License .....                      | 133            |
| Brake Lining Warning .....             | 126            | —Rear Marker .....                  | 133            |
| Central Locking .....                  | 144            | —Stoplights .....                   | 134            |
| Charging System .....                  | 109            | —Tail .....                         | 133            |
| Cigar Lighter .....                    | 140            | —Turn .....                         | 130            |
| Cruise Control .....                   | 134            | —Transmission Range .....           | 136            |
| Diagnostic Connector .....             | 101            | —Trunk .....                        | 133            |
| Evaporative Control .....              | 111            | —Visor .....                        | 136            |
| Fuel Control .....                     | 114            | —Underhood .....                    | 132            |
| Fuel Delivery .....                    | 111            | On-Board Computer .....             | 116            |
| Fuel Gauge .....                       | 119            | Power Antenna .....                 | 147            |
| Fuse Data .....                        | 103            | Power Distribution .....            | 104            |
| Gauges .....                           | 118            | Power Distribution Box .....        | 102            |
| Ground Distribution .....              | 156            | Power Mirrors .....                 | 146            |
| Heater .....                           | 149            | Power Seats .....                   | 162            |
| Heated Door Lock .....                 | 154            | Power Windows .....                 | 142            |
| Horn .....                             | 154            | Radio .....                         | 147            |
| Idle Speed Control .....               | 112            | Rear Defogger .....                 | 141            |
| Ignition .....                         | 113            | Seatbelt Warning .....              | 115            |
| Ignition Key Warning .....             | 115            | Service Interval Indicator .....    | 121            |
| Lights                                 |                | Speedometer .....                   | 118            |
| —Backup .....                          | 139            | Start .....                         | 110            |
| —Center Console .....                  | 138            | Sunroof .....                       | 141            |
| —Dash .....                            | 136            | Vacuum Pump .....                   | 148            |
| —Fog .....                             | 128            | Warning Indicators .....            | 118            |
| —Front Park .....                      | 132            | Windshield Washer Jet Heaters ..... | 161            |
|  |                | Wiper/Washer .....                  | 122            |



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.

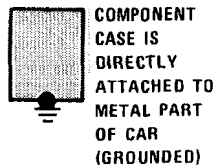
| WIRE SIZE<br>CONVERSION CHART                          |                                 |
|--|---------------------------------|
| METRIC<br>(CROSSSECTIONAL AREA<br>IN MM <sup>2</sup> ) | AWG<br>(AMERICAN<br>WIRE GAUGE) |
| .5   | 20                              |
| .75  | 18                              |
| 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



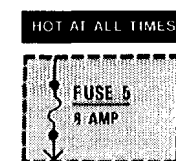
ENTIRE COMPONENT SHOWN



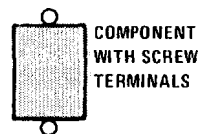
COMPONENT CASE IS DIRECTLY ATTACHED TO METAL PART OF CAR (GROUNDED)



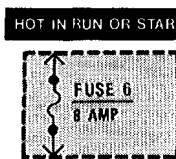
PART OF A COMPONENT SHOWN



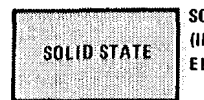
INDICATES THAT FUSE 5 IS ALWAYS SUPPLIED WITH POWER



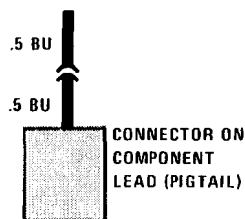
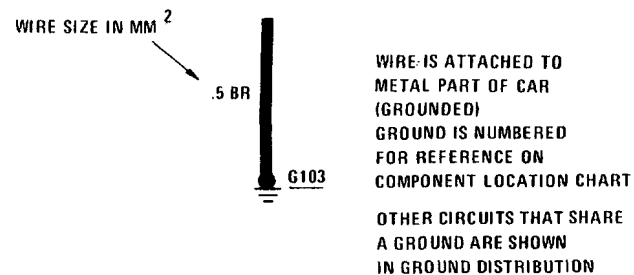
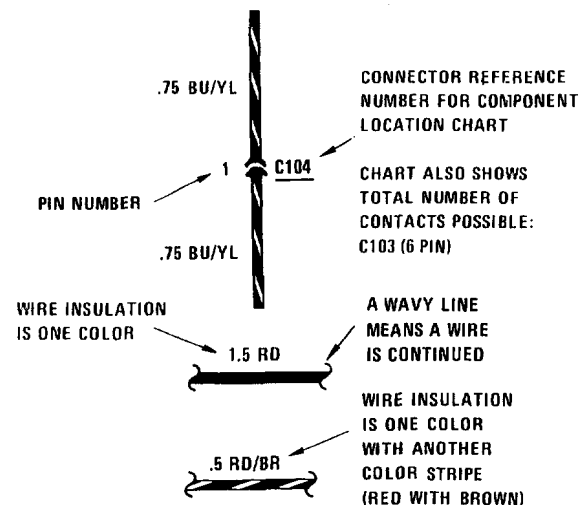
COMPONENT WITH SCREW TERMINALS



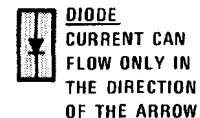
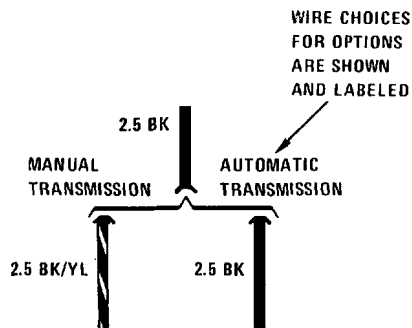
INDICATES THAT FUSE 6 IS SUPPLIED WITH POWER (WITH THE IGNITION SWITCH IN THE RUN OR START POSITIONS)



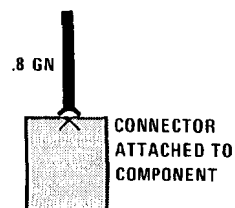
SOLID STATE (INCLUDES ONLY ELECTRONIC PARTS)



CONNECTOR ON COMPONENT LEAD (PIGTAIL)



DIODE CURRENT CAN FLOW ONLY IN THE DIRECTION OF THE ARROW

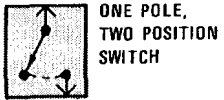


CONNECTOR ATTACHED TO COMPONENT

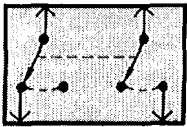
CIRCUIT REFERENCE - A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT



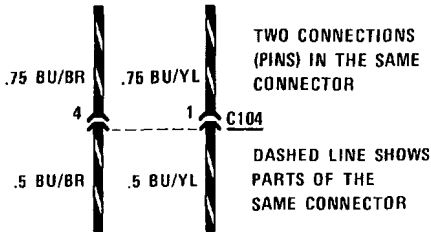
ACTIVE CHECK CONTROL



ONE POLE,  
TWO POSITION  
SWITCH



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



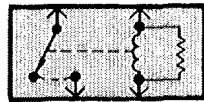
TWO CONNECTIONS  
(PINS) IN THE SAME  
CONNECTOR

DASHED LINE SHOWS  
PARTS OF THE  
SAME CONNECTOR



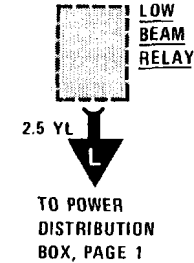
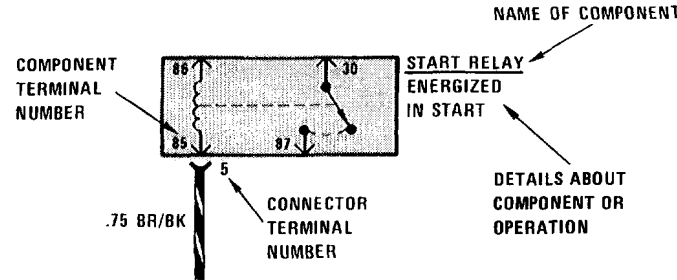
RELAY SHOWN  
WITH NO  
CURRENT  
FLOWING  
THROUGH  
COIL

WHEN COIL IS  
ENERGIZED, SWITCH  
IS PULLED CLOSED



RELAY SHOWN  
WITH RESISTOR  
ACROSS COIL

RESISTOR ACROSS COIL  
IS FOR NOISE  
SUPPRESSION

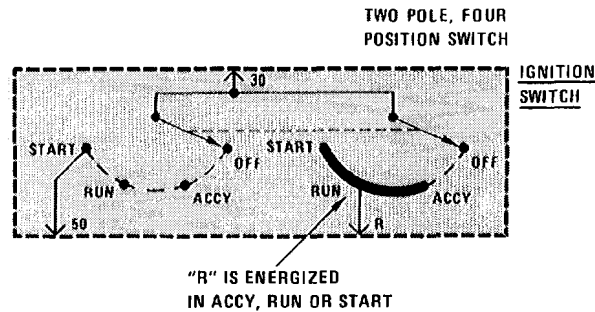


LOW  
BEAM  
RELAY

2.5 YL

TO POWER  
DISTRIBUTION  
BOX, PAGE 1

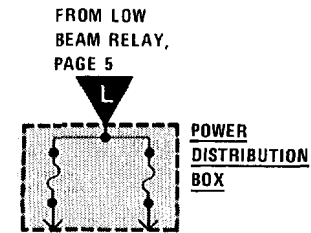
CURRENT PATH  
IS CONTINUED  
AS LABELED.  
THE ARROW SHOWS  
DIRECTION OF CURRENT  
FLOW AND IS REPEATED  
WHERE CURRENT  
PATH CONTINUES.



TWO POLE, FOUR  
POSITION SWITCH

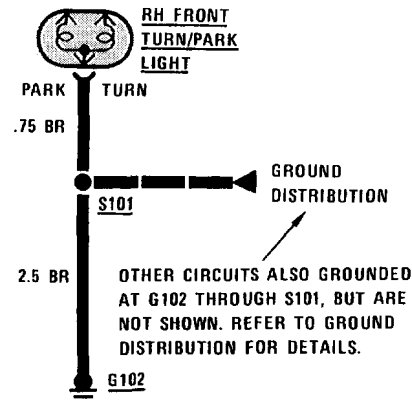
IGNITION  
SWITCH

"R" IS ENERGIZED  
IN ACCY, RUN OR START



FROM LOW  
BEAM RELAY,  
PAGE 5

POWER  
DISTRIBUTION  
BOX



RH FRONT  
TURN/PARK  
LIGHT

PARK TURN

.75 BR

.5 BR

G102

GROUND  
DISTRIBUTION

OTHER CIRCUITS ALSO GROUNDED  
AT G102 THROUGH S101, BUT ARE  
NOT SHOWN. REFER TO GROUND  
DISTRIBUTION FOR DETAILS.



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

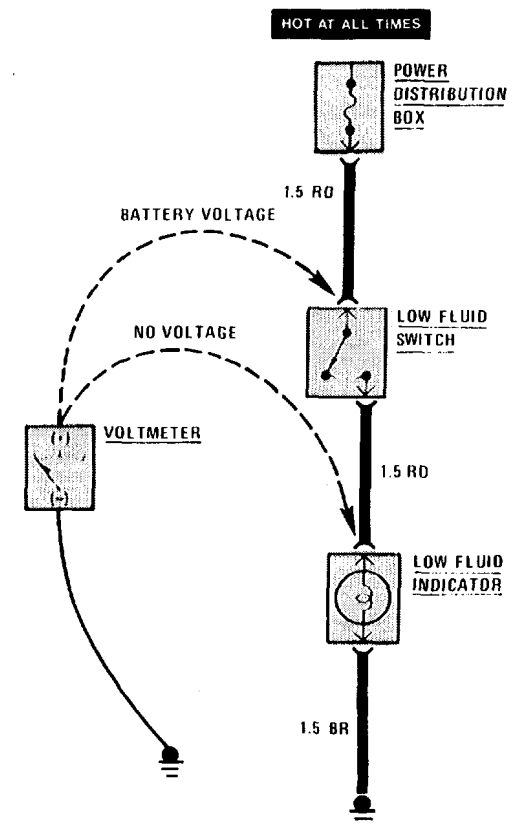
Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a **voltmeter** and/or **ohmmeter**. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit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

The voltmeter 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.

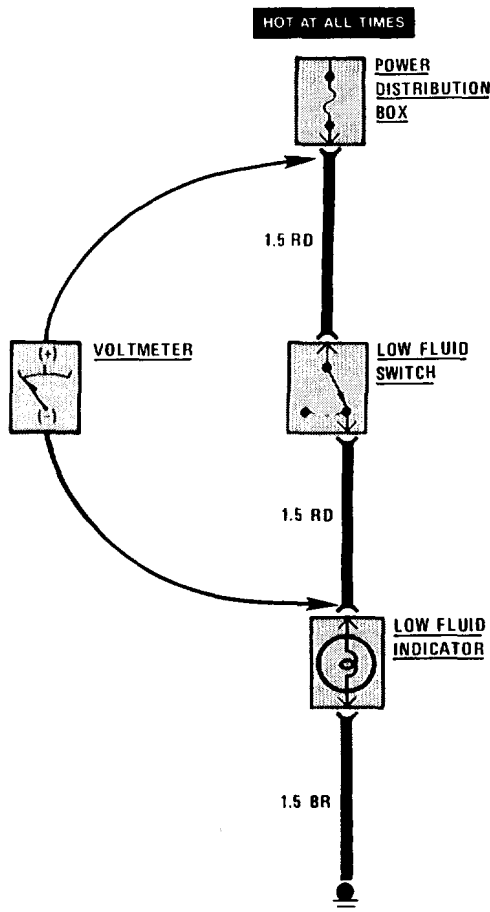


Voltage Test

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.

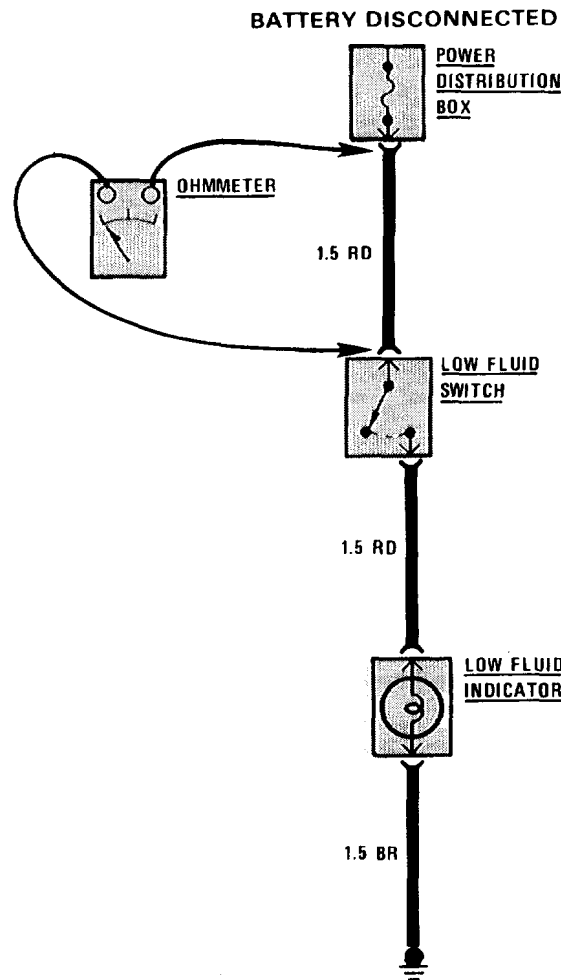
To test for voltage drop, connect the voltmeter leads to connectors at either end of the circuit's suspected problem area. The positive lead should be connected to the connector closest to the power source. The voltmeter will show the voltage drop between these two points.



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.

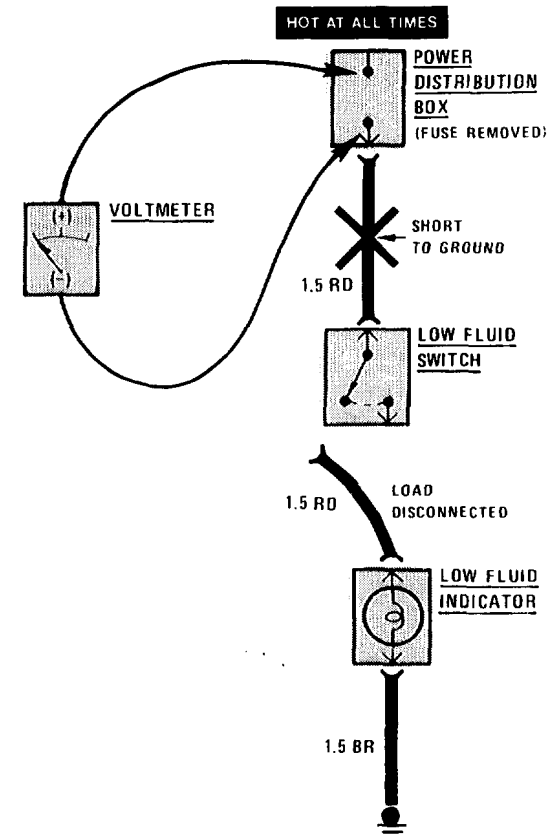


Continuity Test

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.



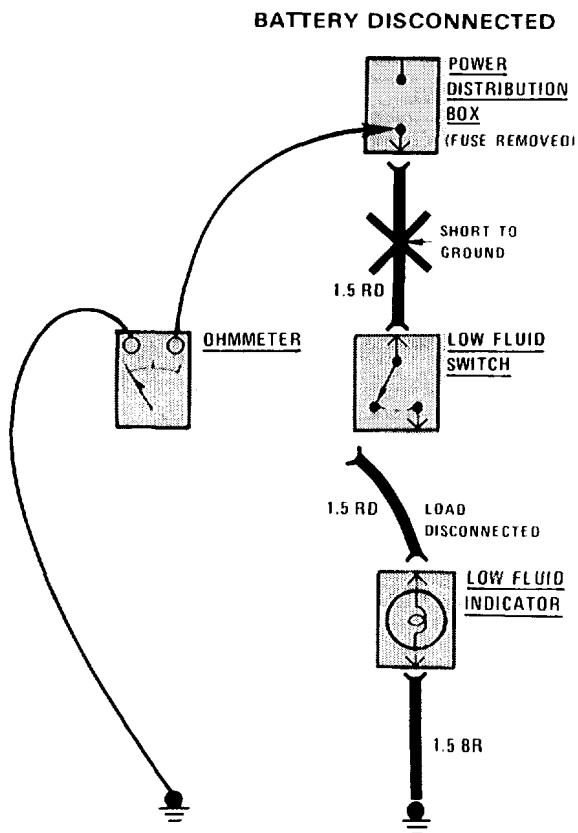
Short Test Using Voltmeter

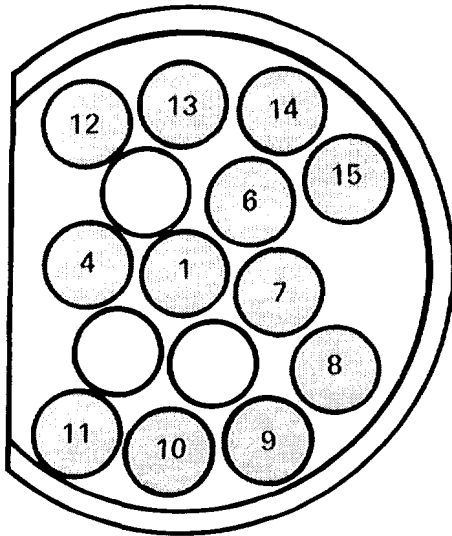
## 8 SYSTEMATIC TROUBLESHOOTING

### 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.





DIAGNOSTIC CONNECTOR FACE

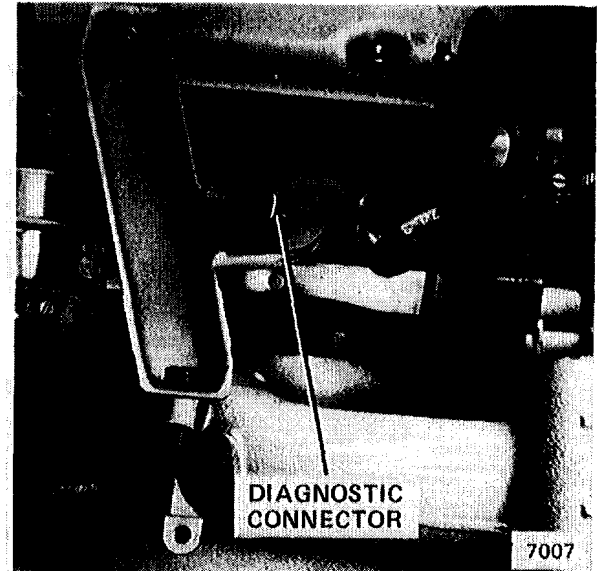
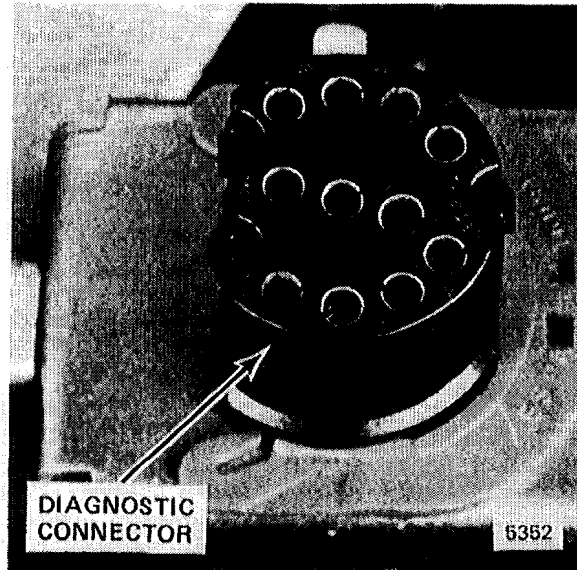


Figure 1 - Top Front of Engine

| PIN | WIRE SIZE | WIRE COLOR | CIRCUIT AND COMPONENT CONNECTED                         |
|-----|-----------|------------|---|
| 1   | 1.5       | BR         | Ground Distribution, G103                               |
| 4   | .5        | BR/WT      | Gauges/Warning Indicators, Coolant Temperature Sender.  |
| 6   | .5        | WT/BK      | Not Used  |
| 7   | .5        |            | Service Interval Indicator, Service Interval Processor. |
| 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, Ignition Coil.                                |
| 14  | 2.5       | RD         | Charge System, Alternator.                              |
| 15  | 1.5       | GN/YL      | Idle Speed Control, Idle Speed Control Unit.            |

# 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.

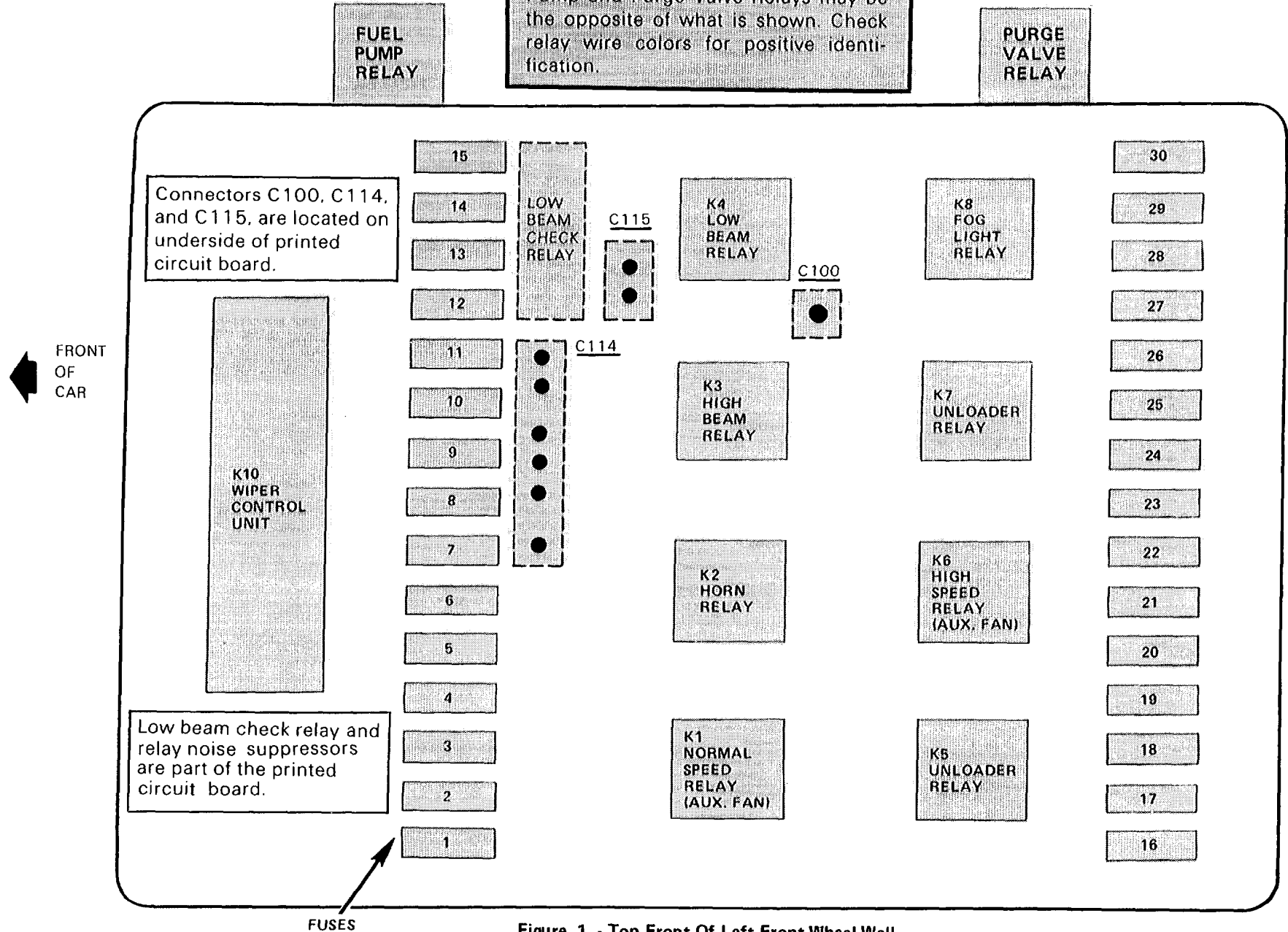


Figure 1 - Top Front Of Left Front Wheel Well

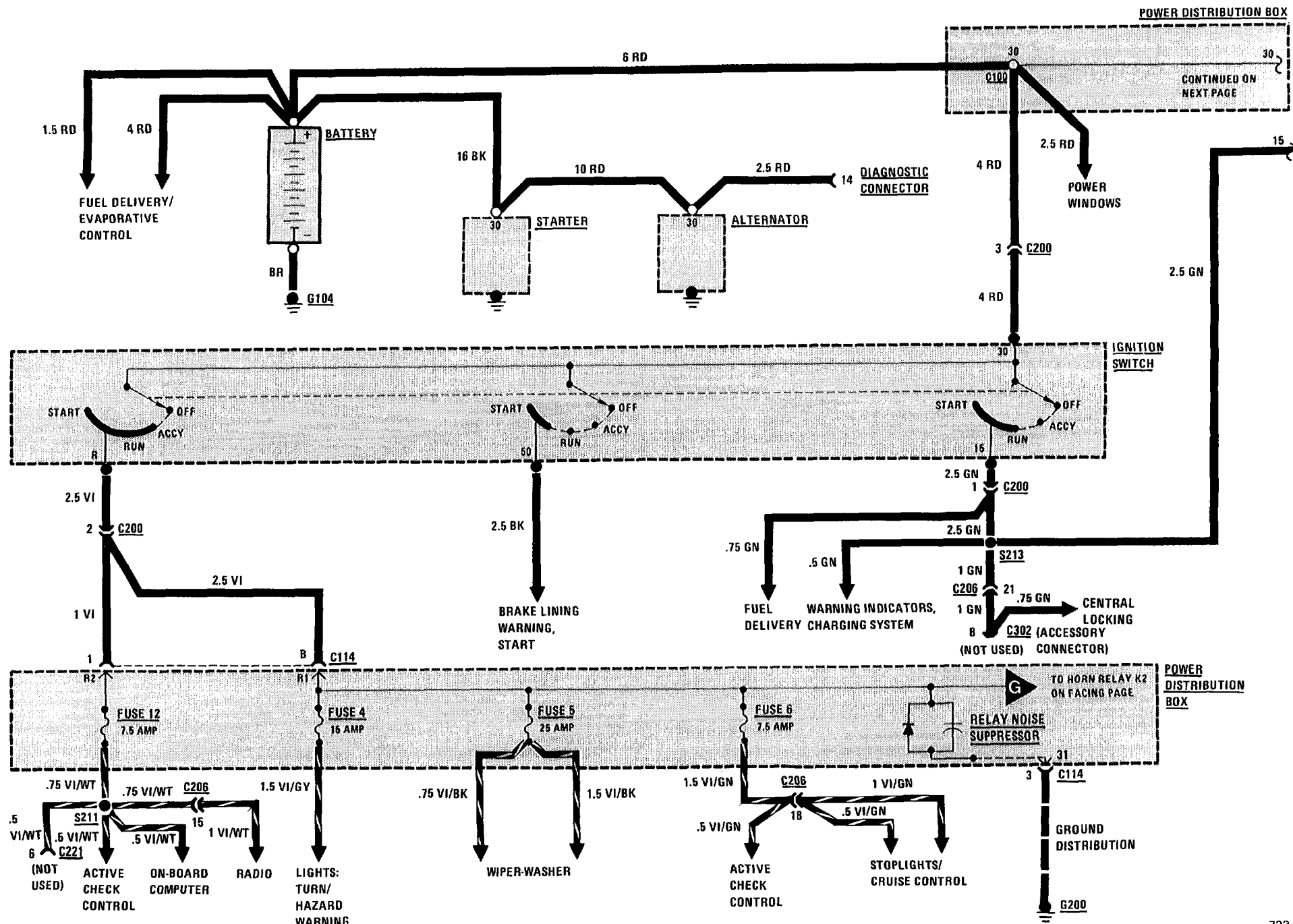


| FUSE NO. | SIZE/<br>COLOR | CIRCUIT PROTECTED  |
|----------|----------------|--|
| 1        | 15A (LT BU)    | Headlights (also fuses 2, 13, 14).   |
| 2        | 15A (LT BU)    | Headlights (also fuses 1, 13, 14).   |
| 3        | 15A (LT BU)    | Auxiliary Fan (also fuses 16, 18).   |
| 4        | 15A (LT BU)    | Lights: Turn/Hazard Warning (also fuse 24).  |
| 5        | 25A (WT)       | Wiper/Washer.  |
| 6        | 7.5A (BR)      | Active Check Control (also fuse 10, 12, 21, 22, 23);<br>Stoplights/Cruise Control (also fuse 17).  |
| 7        | 15A (LT BU)    | Horn.  |
| 8        |                | Not Used.  |
| 9        | 15A (LT BU)    | Idle Speed Control (also fuse 17).   |
| 10       | 7.5A (BR)      | Active Check Control (also fuses 6, 12, 21, 22, 23);<br>Brake Linking Warning;<br>On-Board Computer (also fuse 12, 21, 27);<br>Service Interval Indicator (also fuse 21);<br>Speedometer/Gauges/Warning Indicators (also fuses 12, 17, 21).  |
| 11       | 15A (LT BU)    | Fuel Delivery.   |
| 12       | 7.5A (BR)      | Active Check Control (also fuses 6, 10, 21, 22, 23);<br>On-Board Computer (also fuses 10, 21, 27);<br>Radio (also fuses 12, 28. Radio In-Line Fuse);<br>Warning Indicators (also fuse 10).   |
| 13       | 7.5A (BR)      | Headlights (also fuses 1, 2, 14).  |
| 14       | 7.5A (BR)      | Headlights (also fuses 1, 2, 13).  |
| 15       |                | Not Used.  |
| 16       | 30A (LT GRN)   | Auxiliary Fan/Vacuum Pump (also fuses 3, 18);<br>Heating/Air Conditioning.   |
| 17       | 15A (LT BU)    | Back Up Lights;<br>Idle Speed Control (also fuse 9);<br>Interior Lights (also fuse 21);<br>Power Mirrors;<br>Power Windows (also fuse 26. Power Window<br>Circuit Breaker);<br>Seatbelt Warning (also fuse 10, 21);<br>Stoplights/Cruise Control (also fuse 6);<br>Lights: Dash/Transmission Range (also fuse 23);<br>Windshield Washer Jet Heaters. |

| FUSE NO.                     | SIZE/<br>COLOR | CIRCUIT PROTECTED   |
|------------------------------|----------------|---|
| 18                           | 30A (LT GRN)   | Auxiliary Fan.  |
| 19                           | 25A (WT)       | Sunroof.  |
| 20                           | 25A (WT)       | Rear Defogger.  |
| 21                           | 7.5A (BR)      | Active Check Control (also fuses 6, 10, 12, 22, 23);<br>Auto-Charging Flashlight;<br>Gauges;<br>Glove Box Light;<br>Ignition Key Warning;<br>Interior Lights (also fuse 17);<br>On-Board Computer (also fuses 10, 12, 27);<br>Radio (also fuse 12).<br>Seatbelt Warning (also fuses 10, 17);<br>Service Interval Indicator (also fuse 10);<br>Speedometer/Gauges/Warning Indicators (also fuse 10);<br>Trunk Light. |
| 22                           | 7.5A (BR)      | Lights: Front Park/Tail, Under hood.  |
| 23                           | 7.5A (BR)      | Lights: Front Park/Tail/Rear Marker/License/Dash.   |
| 24                           | 15A (LT BU)    | Lights: Turn/Hazard Warning (also fuse 4).  |
| 25                           |                | Not Used.   |
| 26                           | 30A (LT GN)    | Power Seats;<br>Power Windows (also fuse 17, Power Window Circuit Breaker).   |
| 27                           | 25A (WT)       | Central Locking;<br>Heated Door Lock<br>On-Board Computer (also fuses 10, 12, 21).  |
| 28                           | 25A (WT)       | Cigar Lighter;<br>Power Antenna.  |
| 29                           | 7.5A (BR)      | Fog Lights (also fuse 30).  |
| 30                           | 7.5A (BR)      | Fog Lights (also fuse 29).  |
| Power Window Circuit Breaker | 25             | Power Windows (also fuses 17 and 26).   |

# 104 POWER DISTRIBUTION

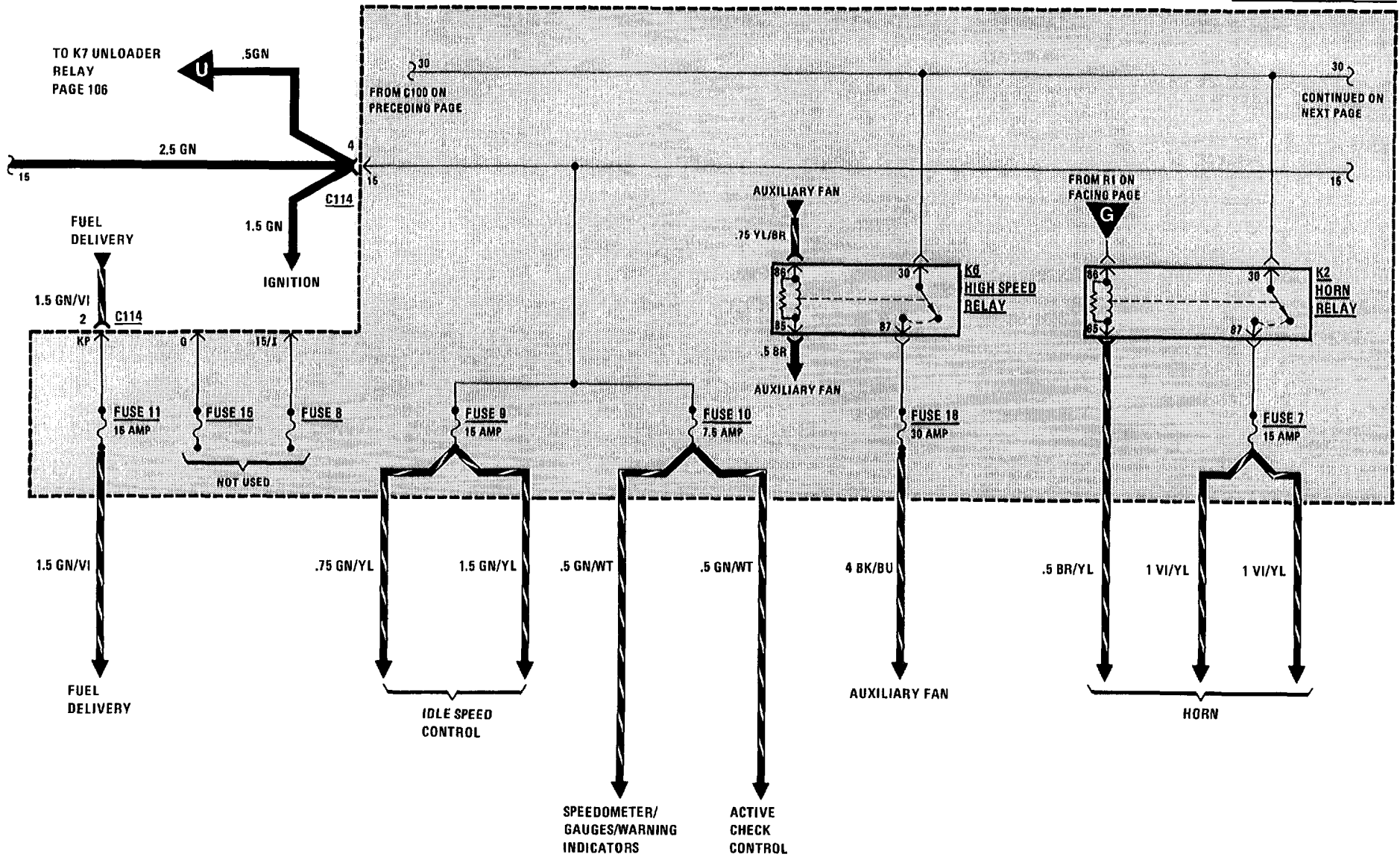
(For Component Locations See Page 210)



# POWER DISTRIBUTION 105

(For Component Locations See Page 210)

## POWER DISTRIBUTION BOX

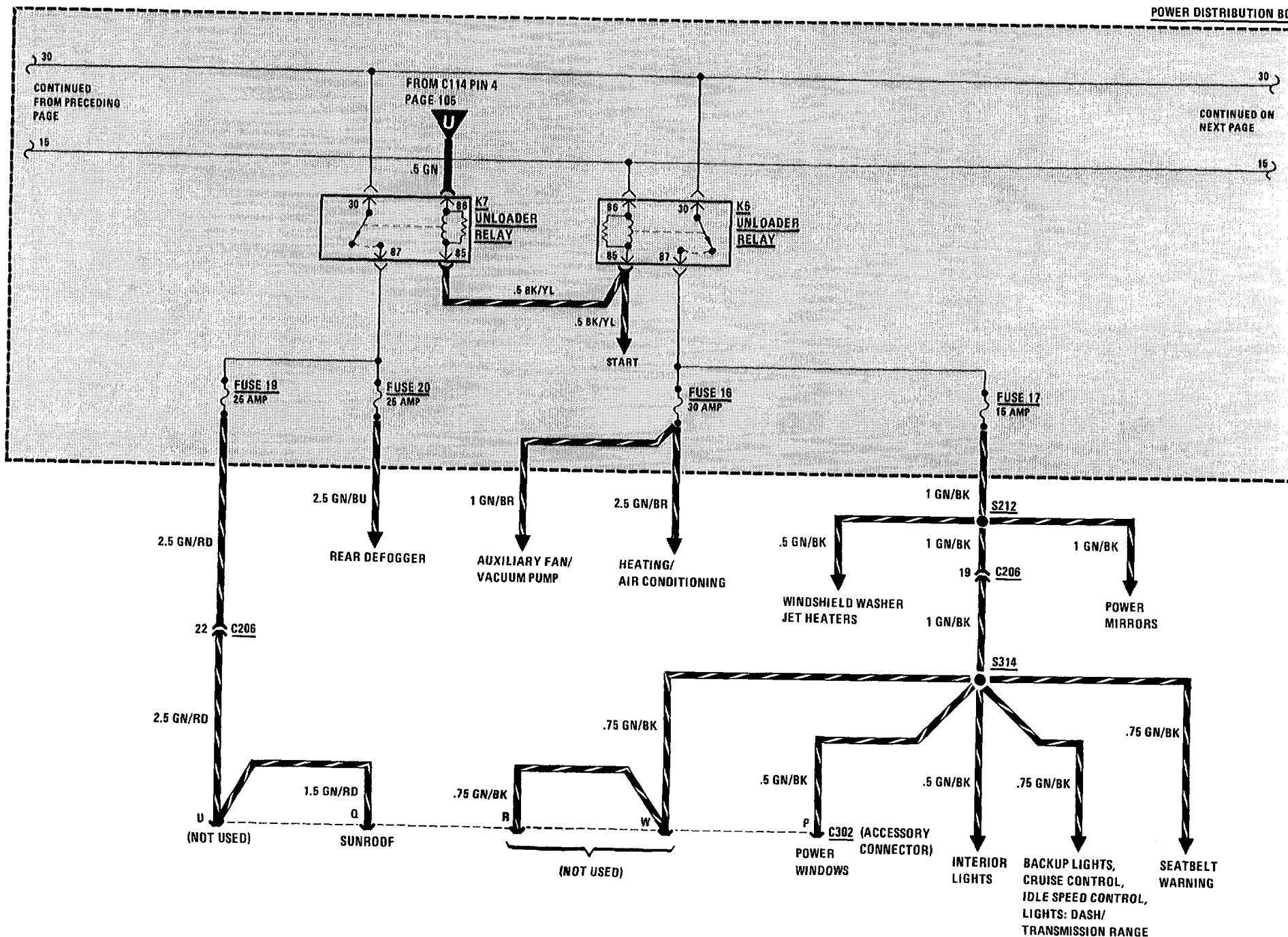


CONTINUED ON NEXT PAGE

# 106 POWER DISTRIBUTION

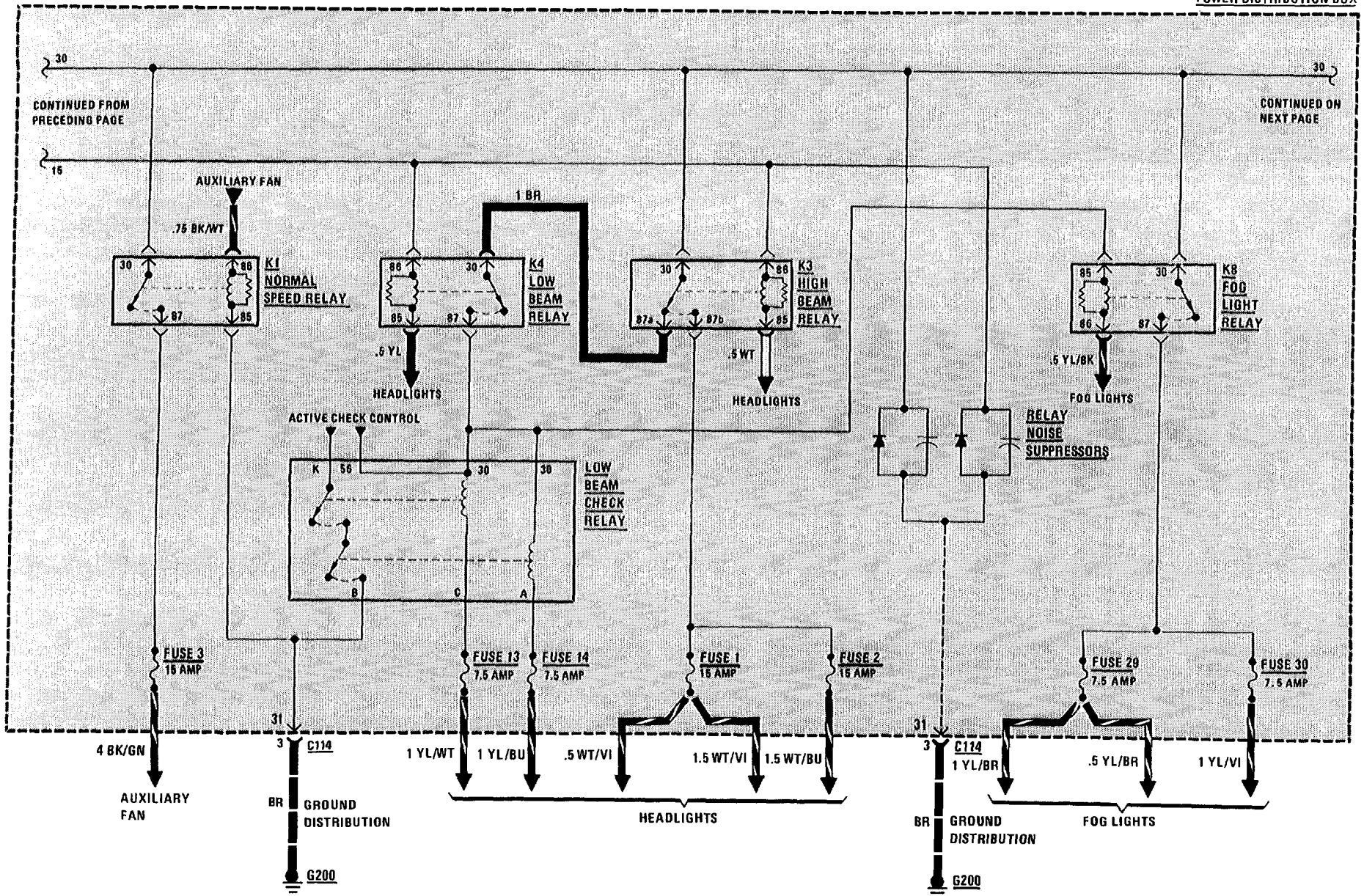
(For Component Locations See Page 210)

## POWER DISTRIBUTION BOX



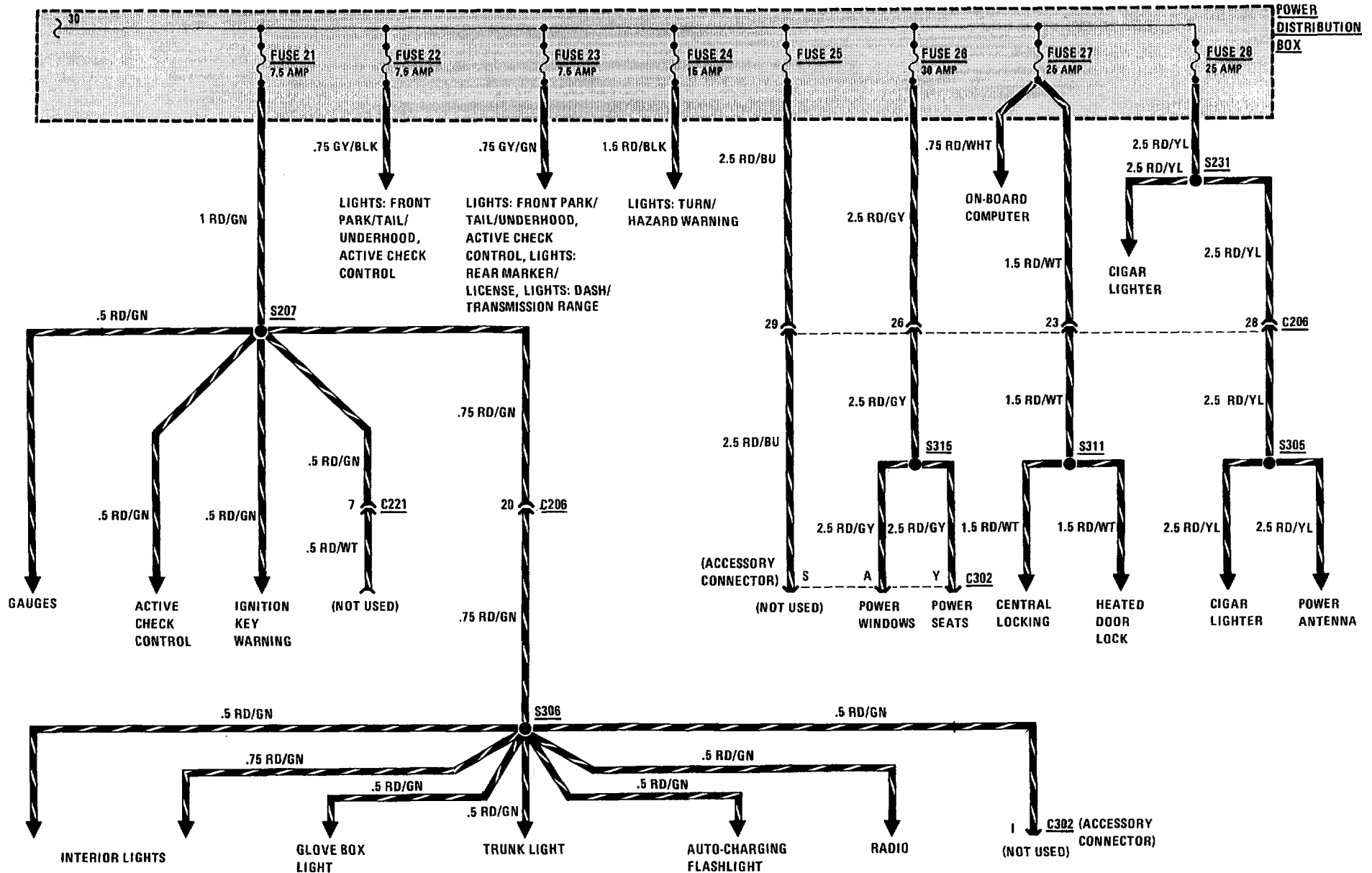
(For Component Locations See Page 210)

## POWER DISTRIBUTION BOX



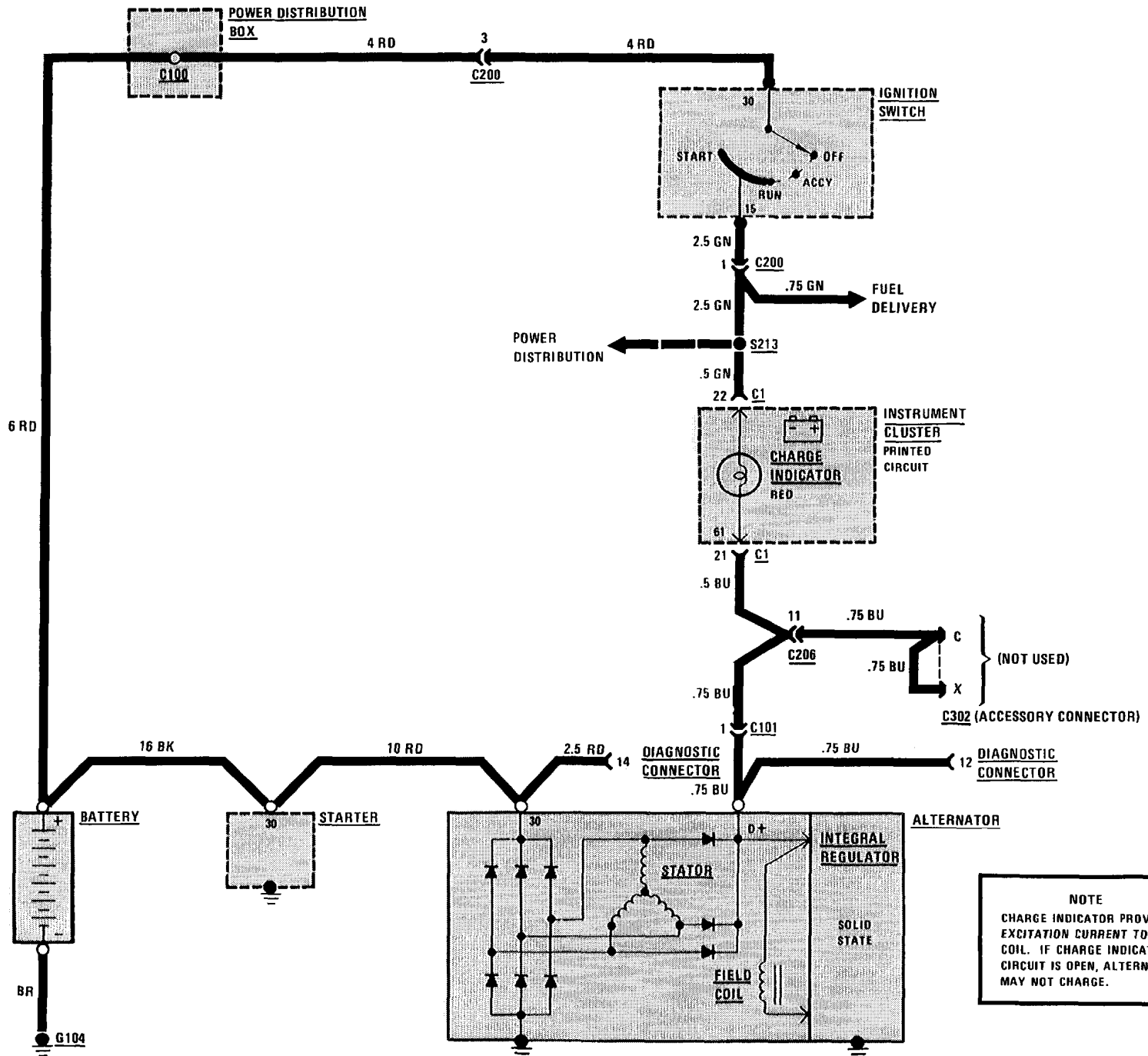
# 108 POWER DISTRIBUTION

(For Component Locations See Page 210)





(For Component Locations See Page 204)

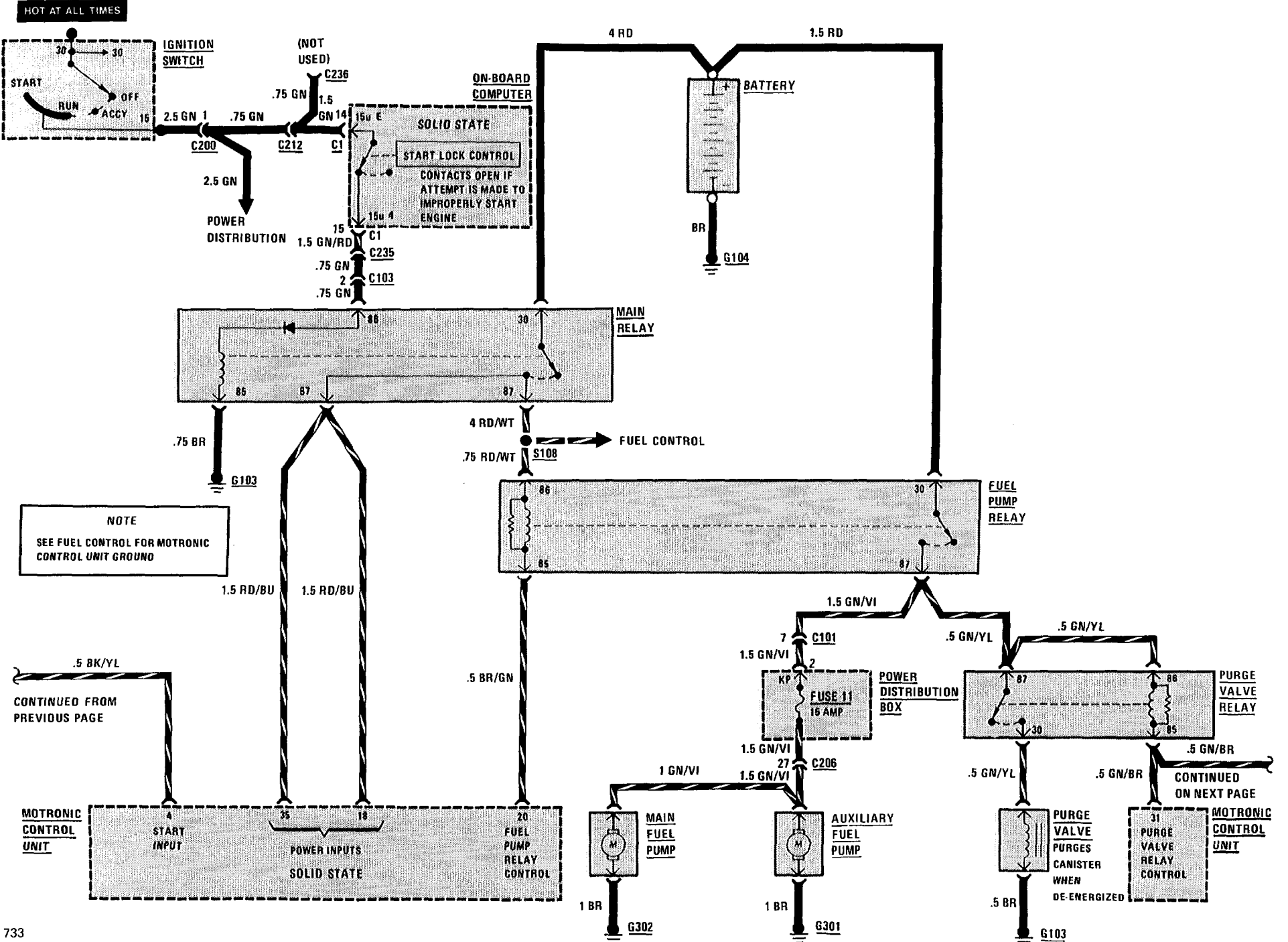


**NOTE**  
 CHARGE INDICATOR PROVIDES  
 EXCITATION CURRENT TO FIELD  
 COIL. IF CHARGE INDICATOR  
 CIRCUIT IS OPEN, ALTERNATOR  
 MAY NOT CHARGE.



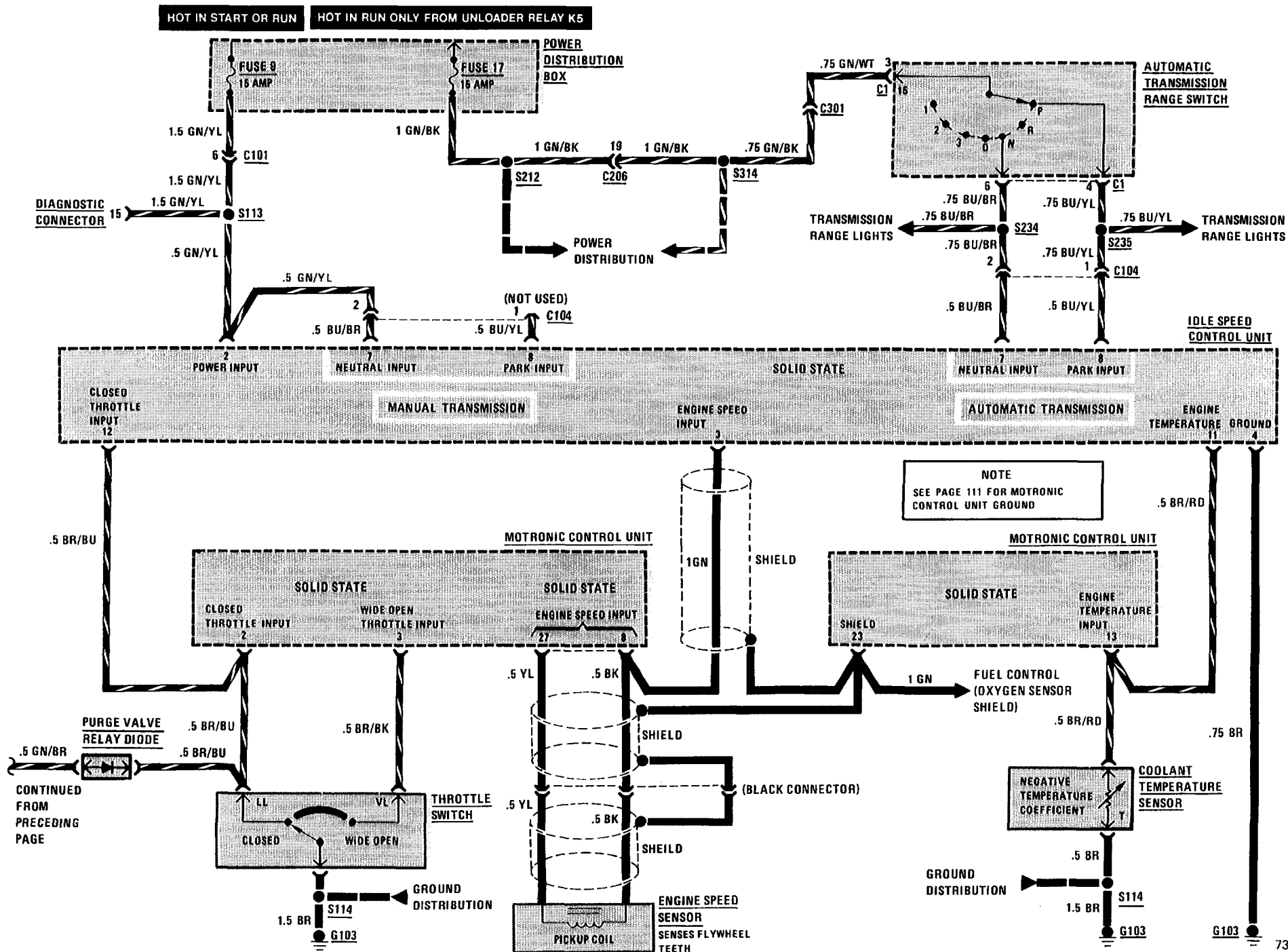


(For Component Locations See Page 205)



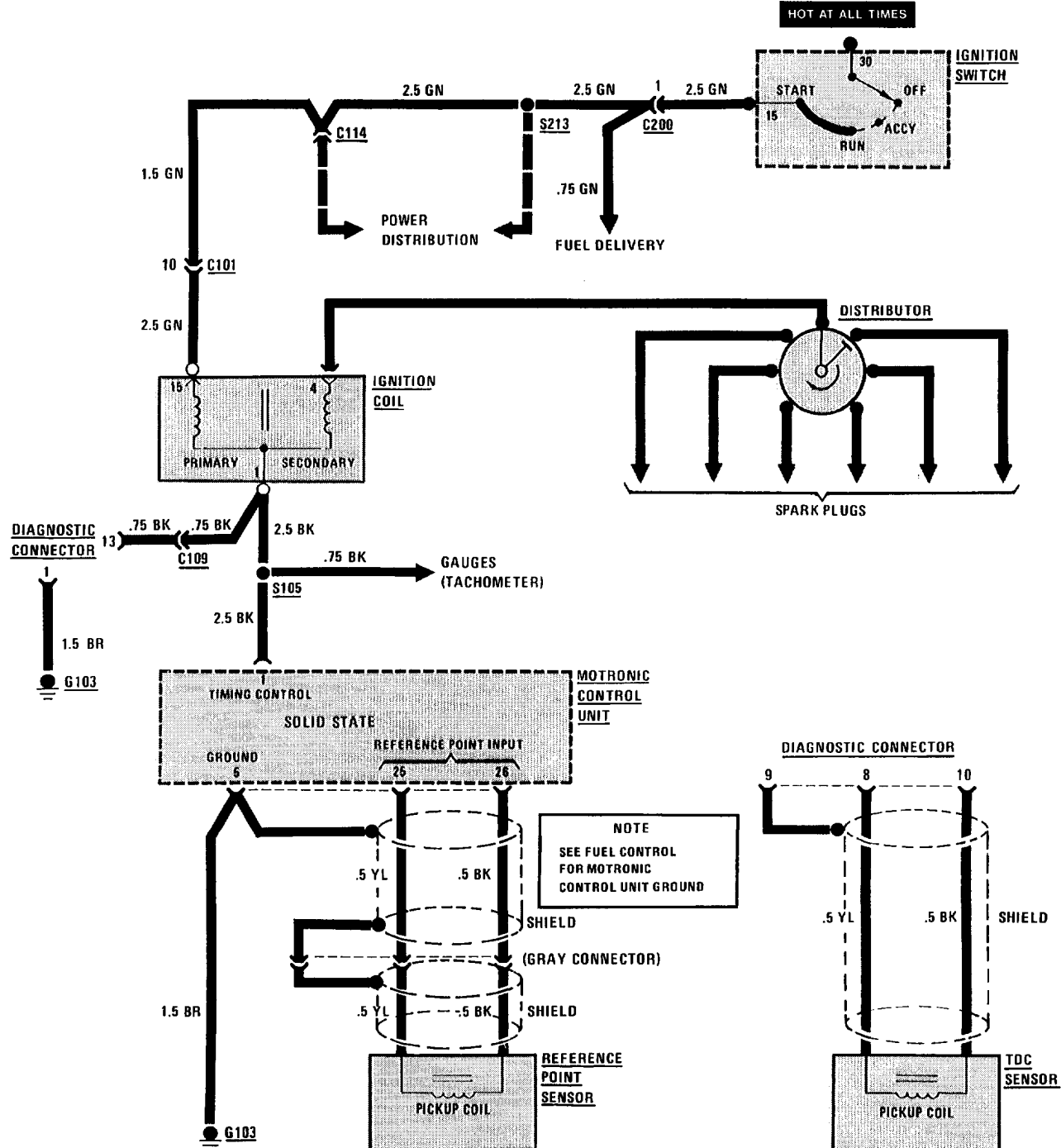
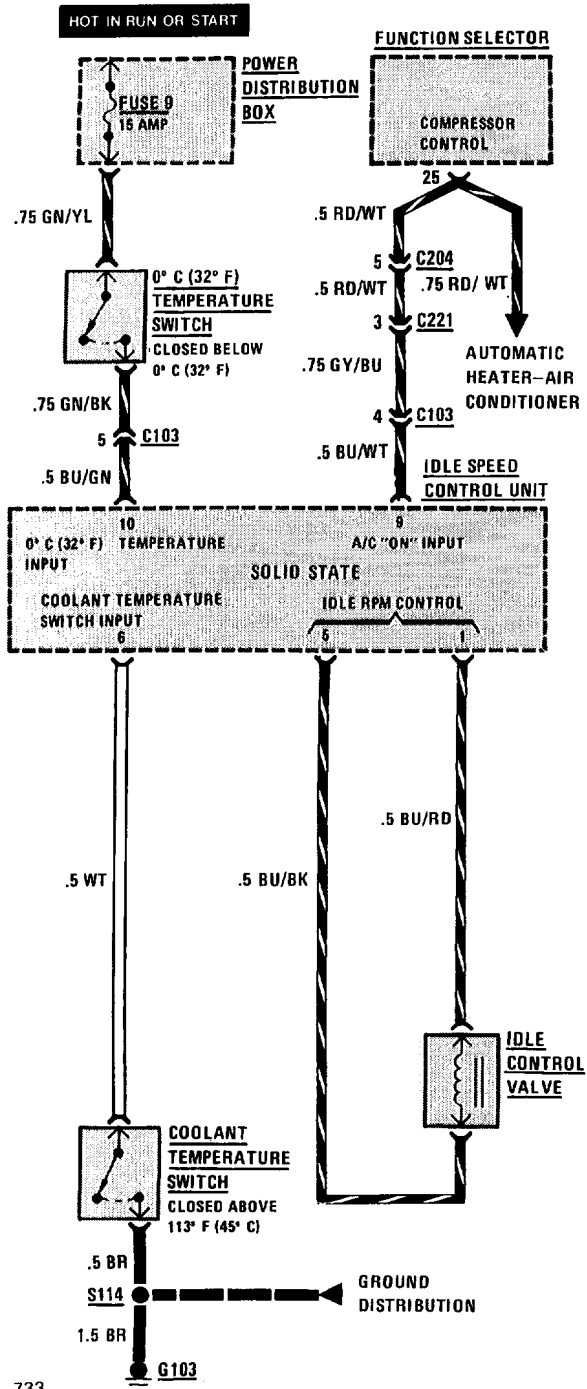
# 112 IDLE SPEED CONTROL

(For Component Locations See Page 206)



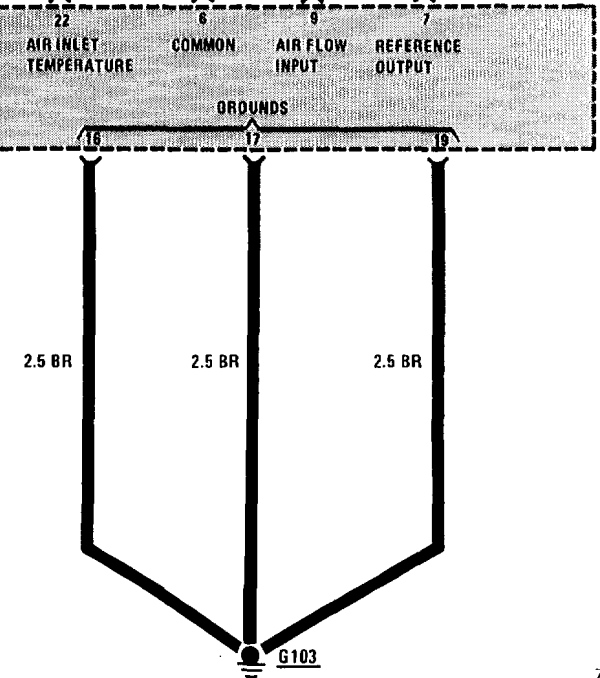
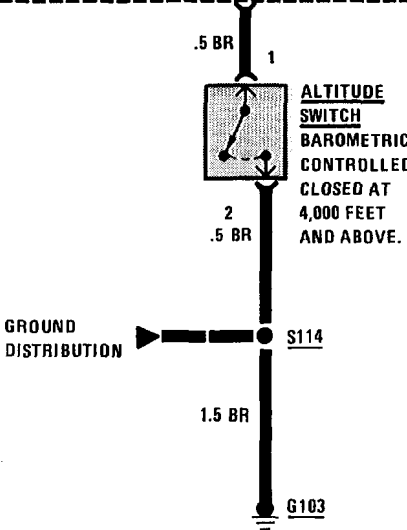
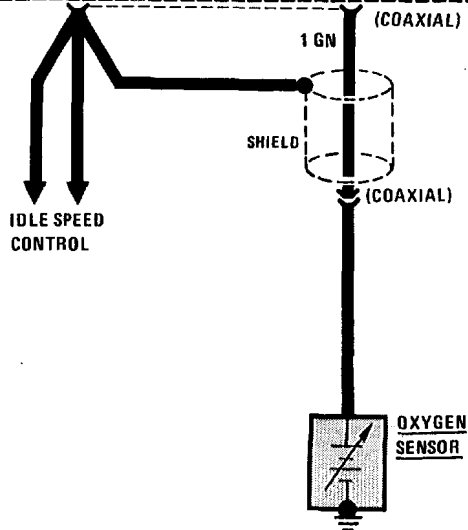
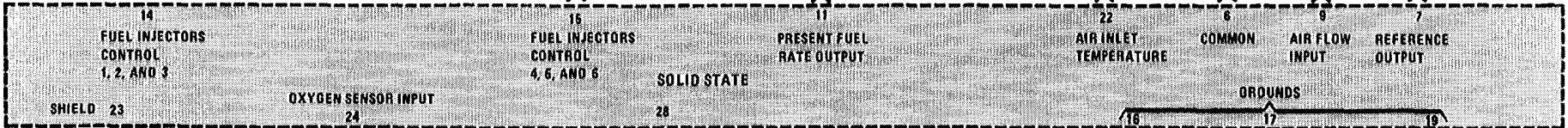
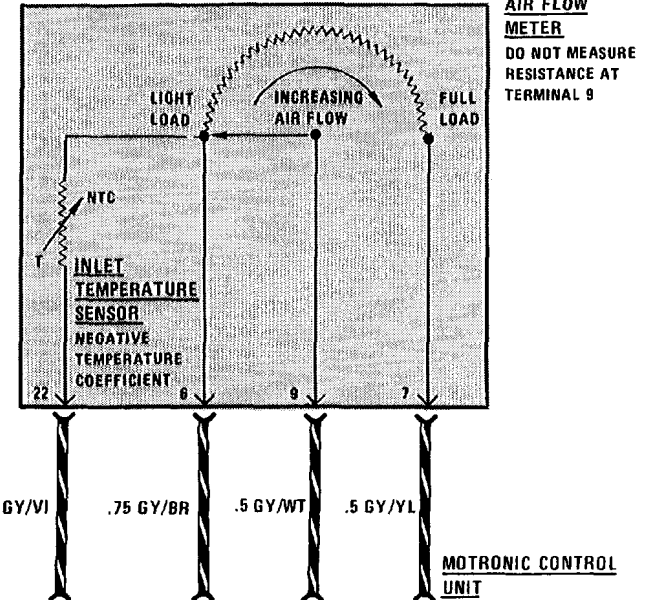
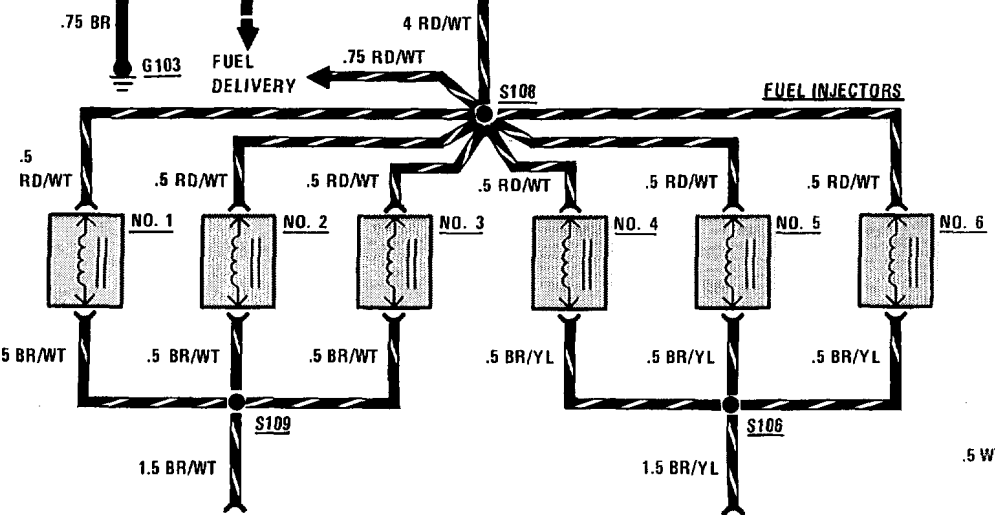
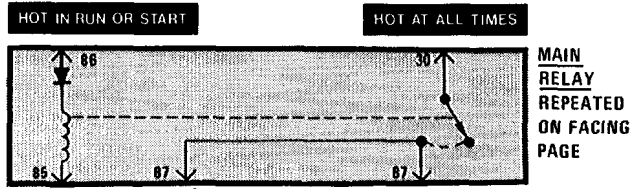
(For Component Locations See Page 206)

(For Component Locations See Page 207)

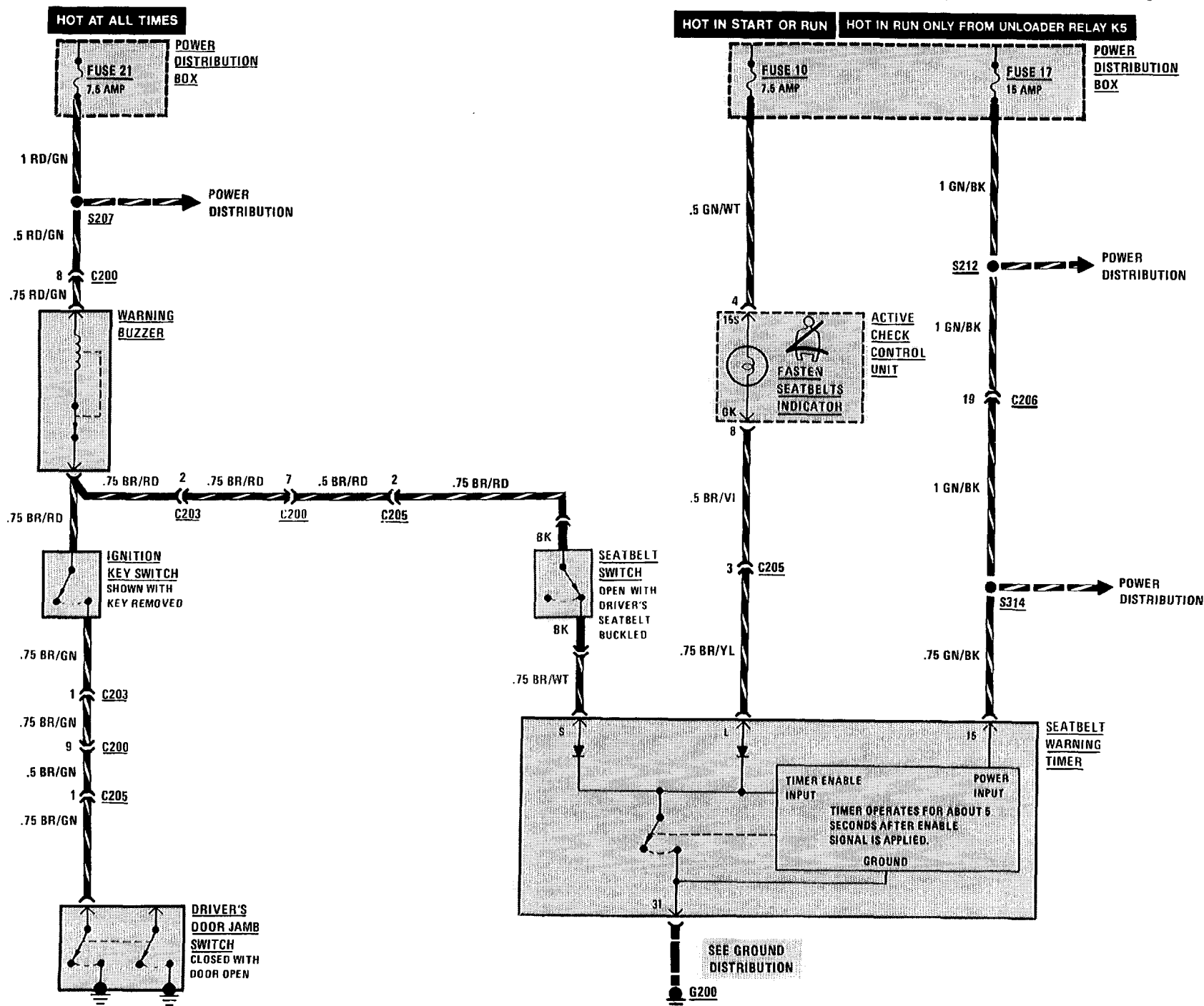


# 114 FUEL CONTROL

(For Component Locations See Page 204)

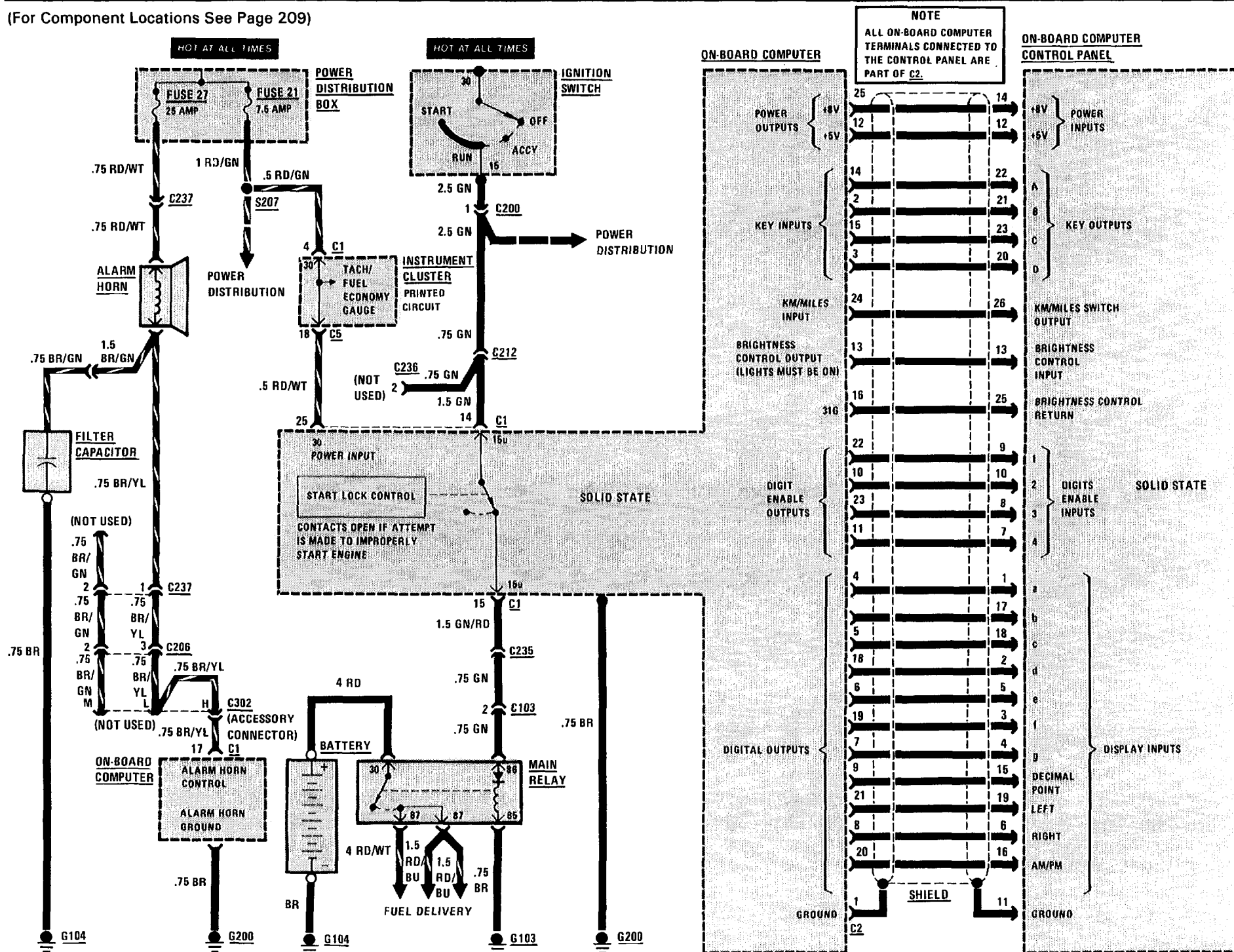


(For Component Locations See Page 207)



# 116 ON-BOARD COMPUTER

(For Component Locations See Page 209)



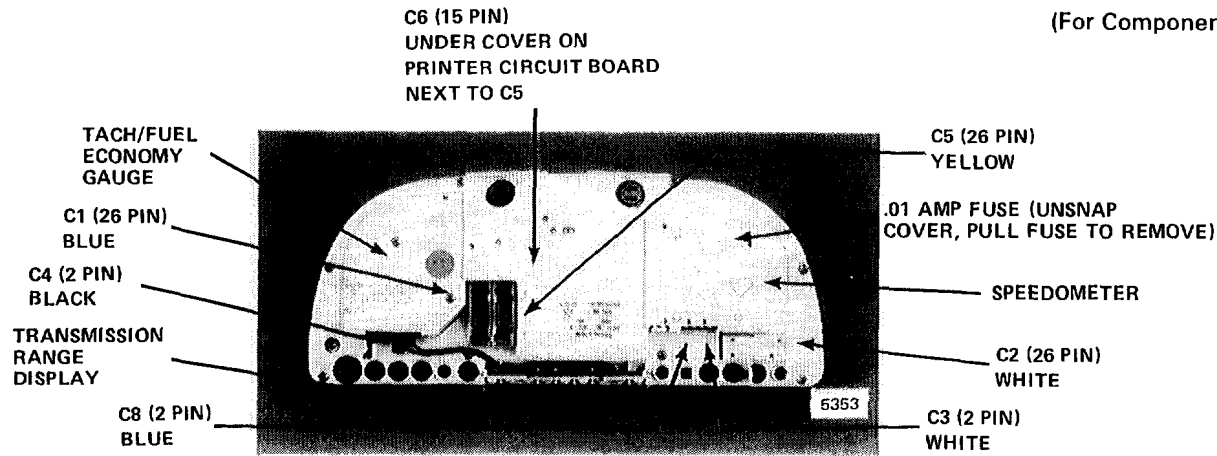




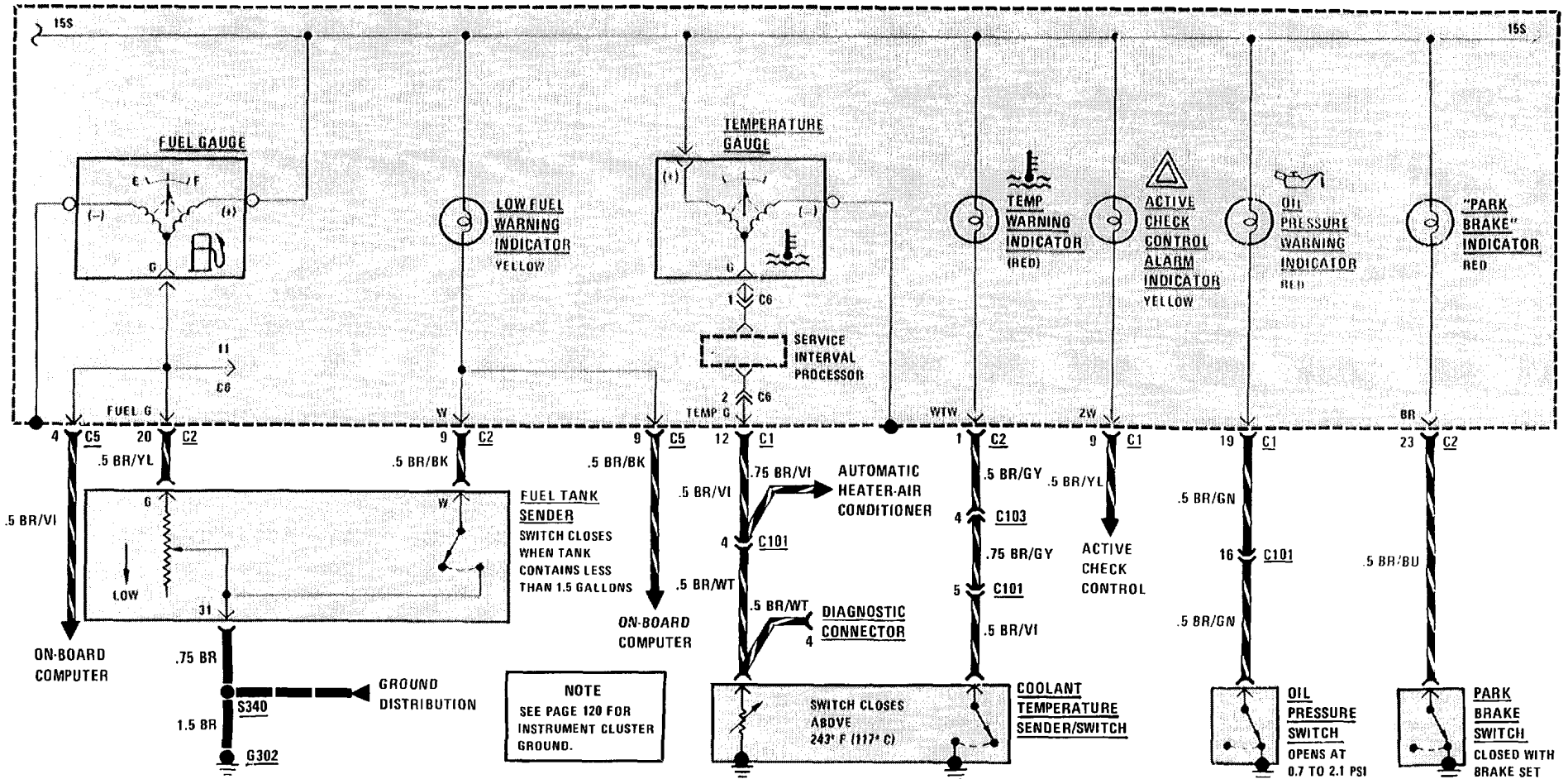




(For Component Locations See Page 212)

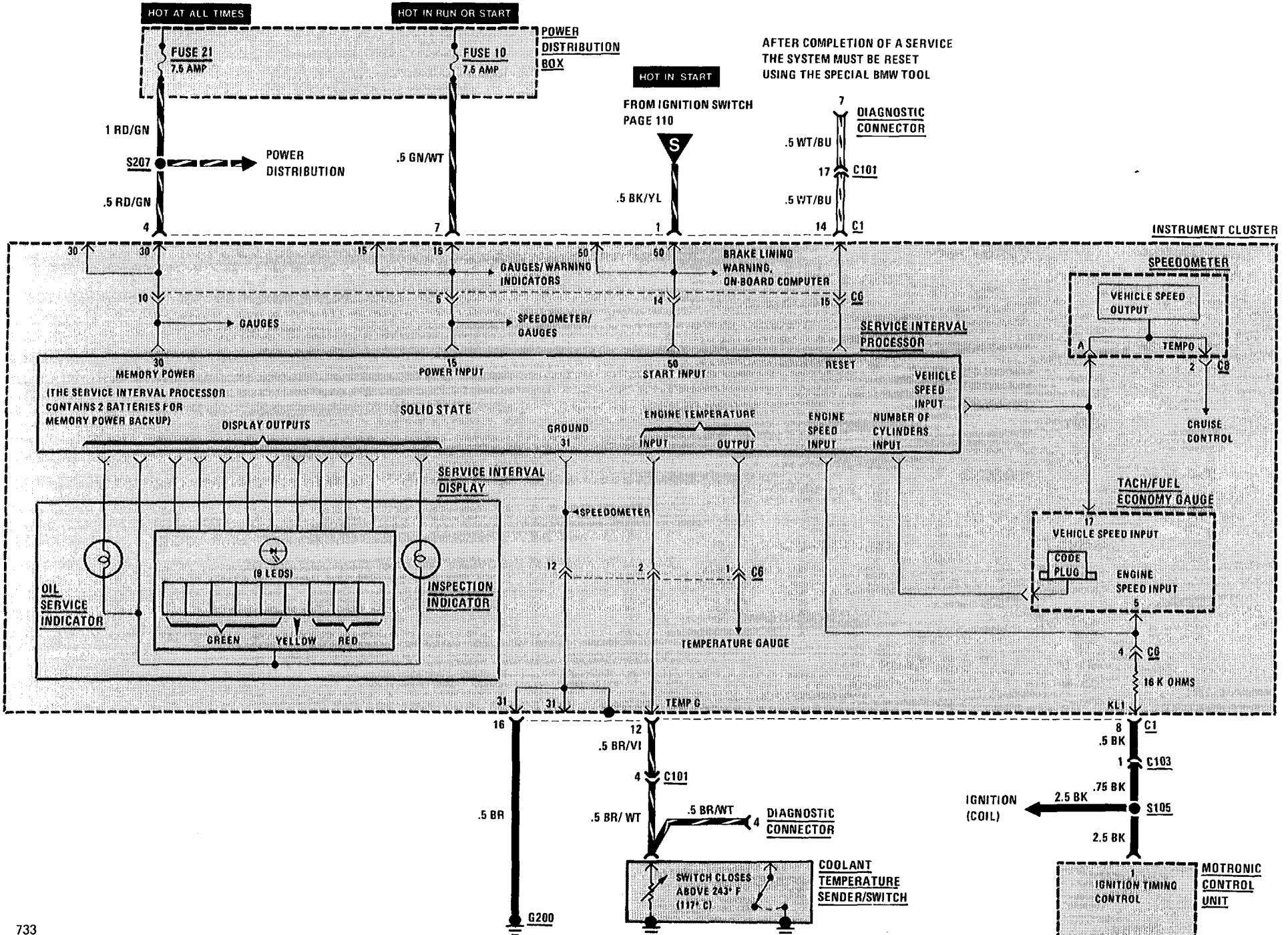


INSTRUMENT CLUSTER  
PRINTED CIRCUIT





(For Component Locations See Page 211)





(For Component Locations See Page 201)

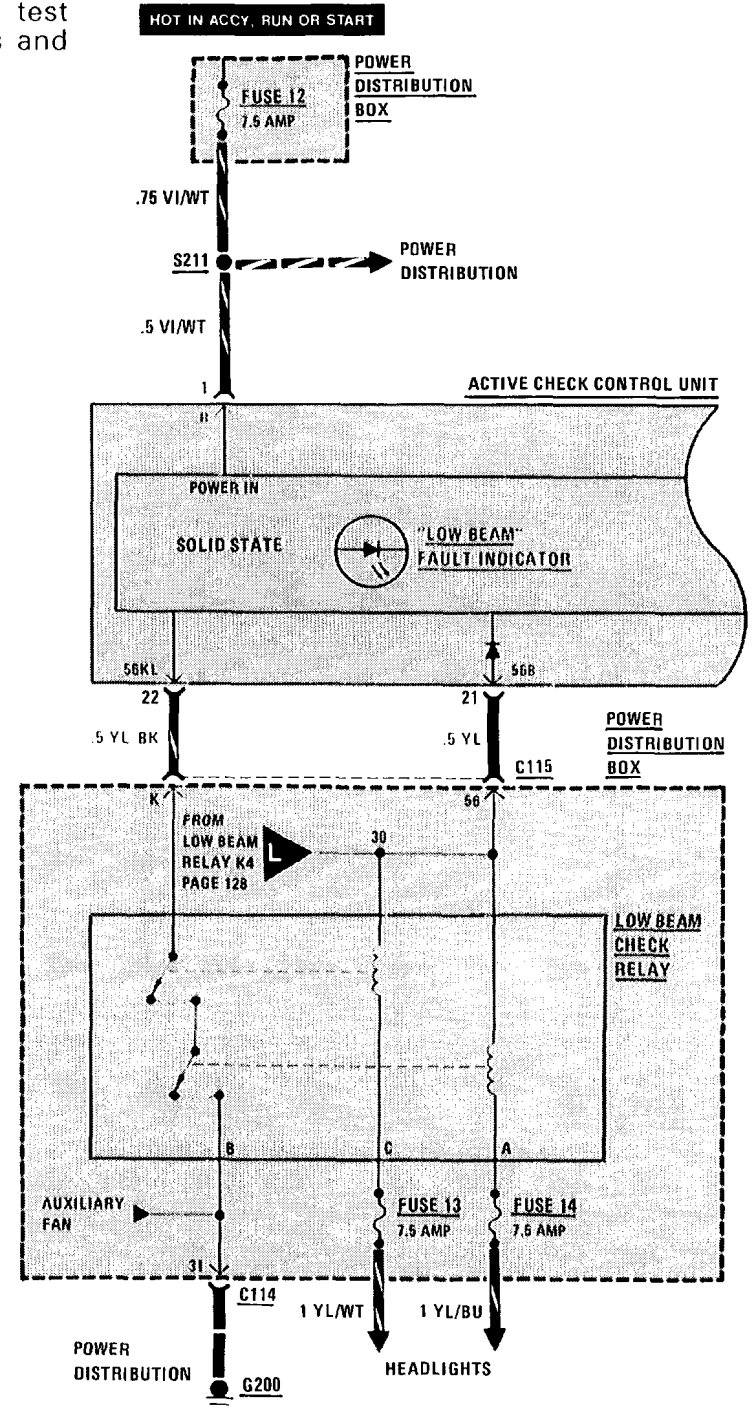
**ACTIVE CHECK CONTROL**

1. When the Ignition Switch is initially placed in "Run," the Active Check Control Arm 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 lights should go on.



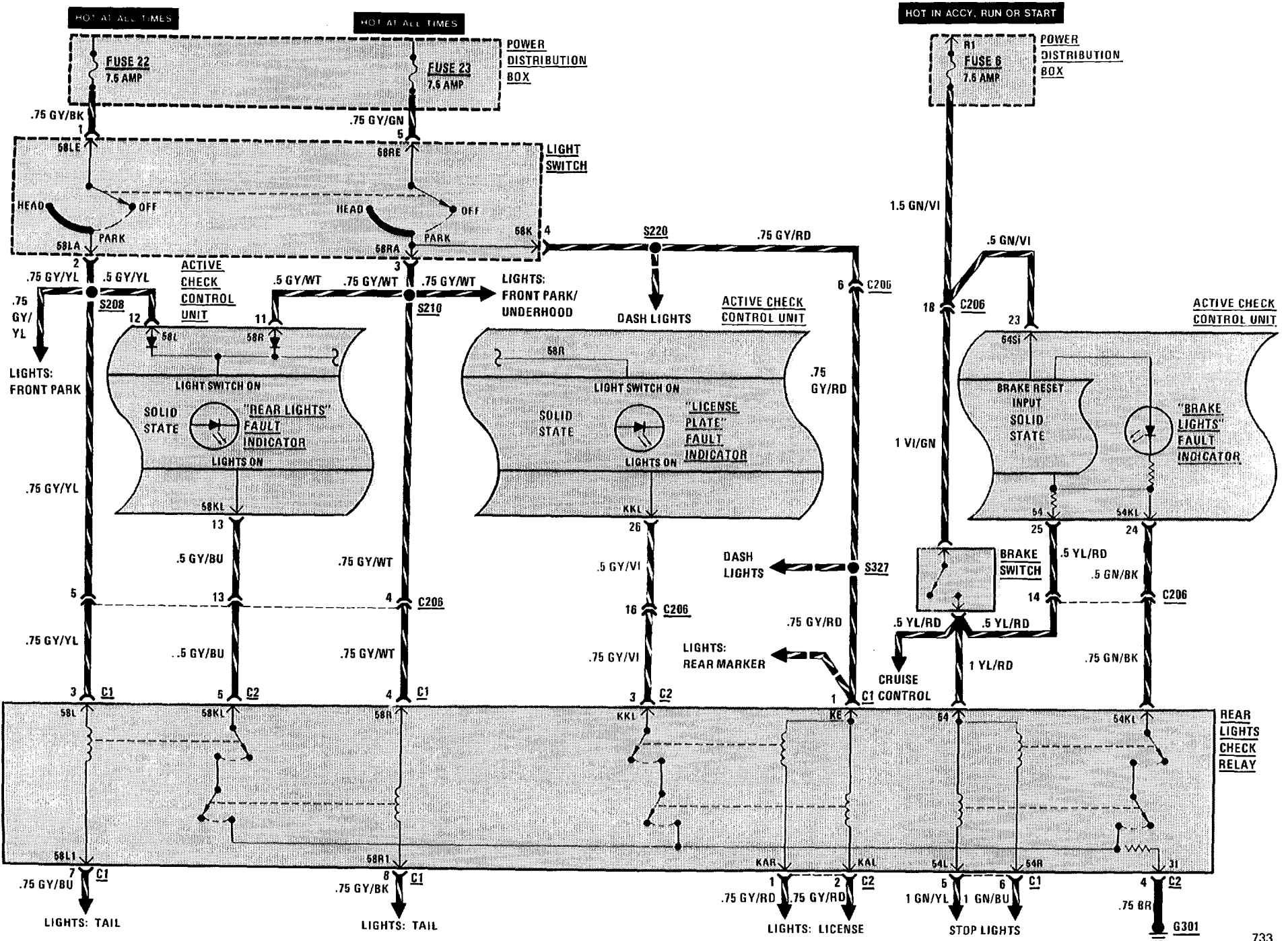
Figure 1 - Active Check Control Unit (Dash, Left Of Steering Column)





# 124 ACTIVE CHECK CONTROL

(For Component Locations See Page 201)

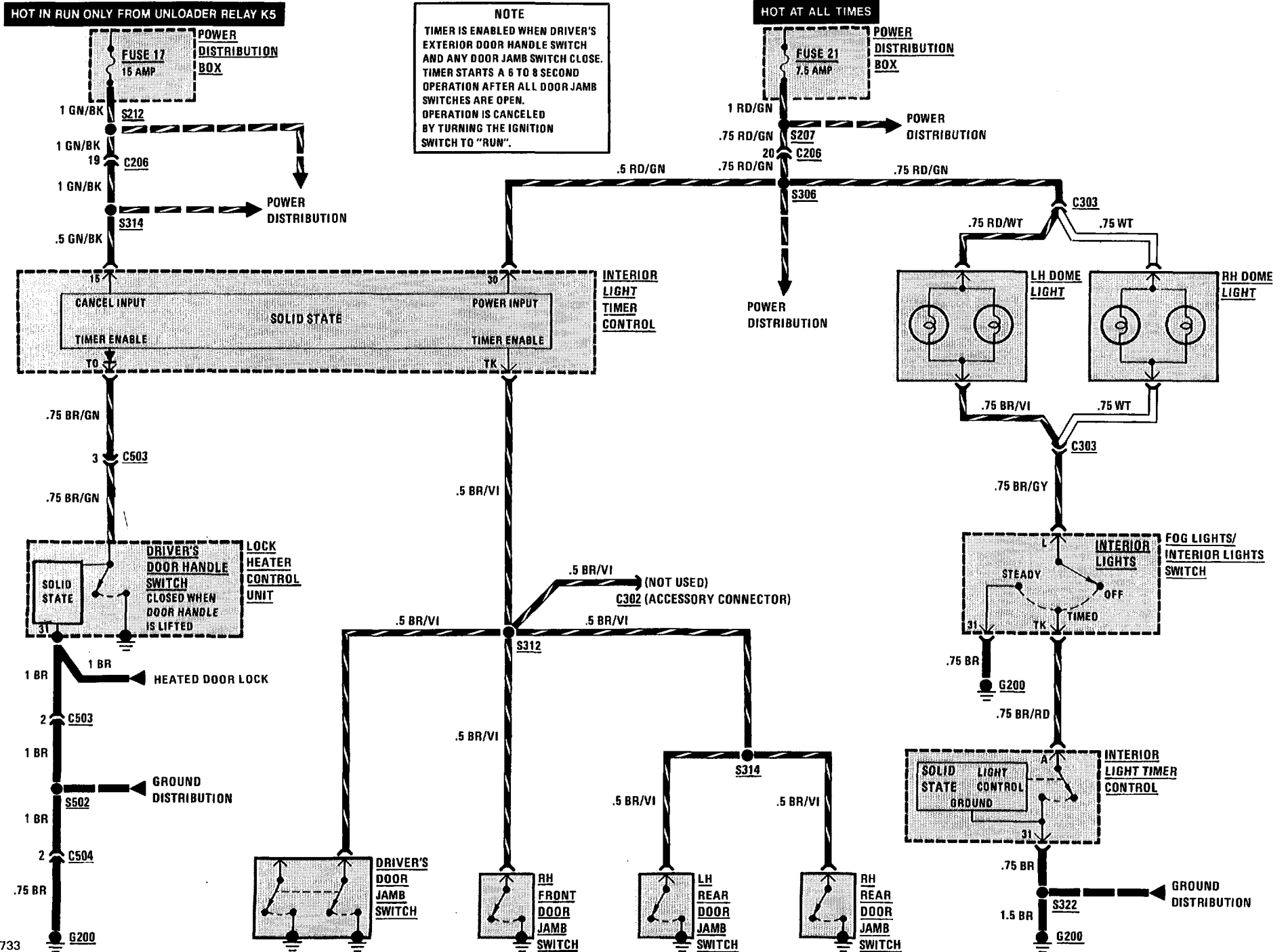






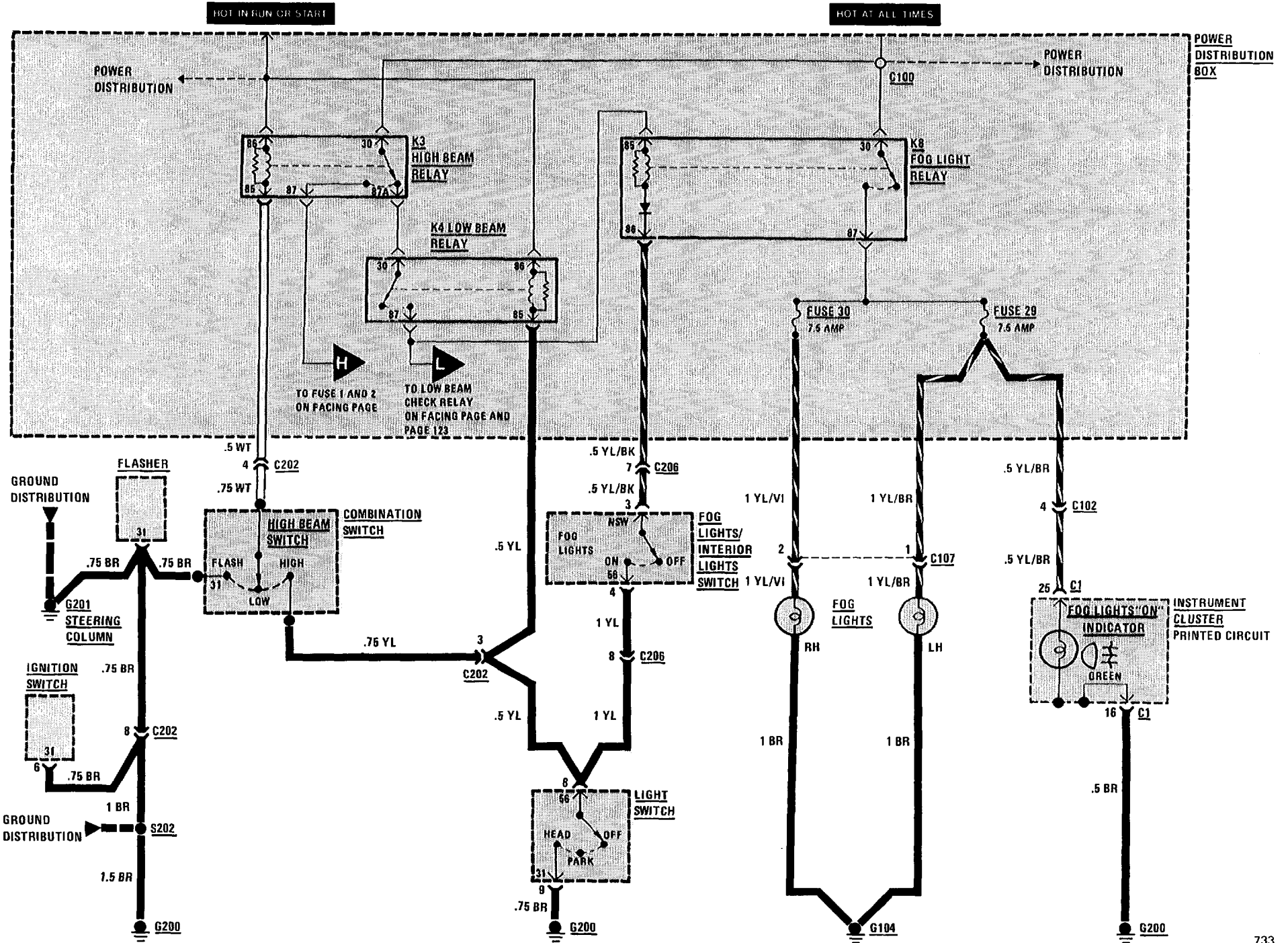


(For Component Locations See Page 207)



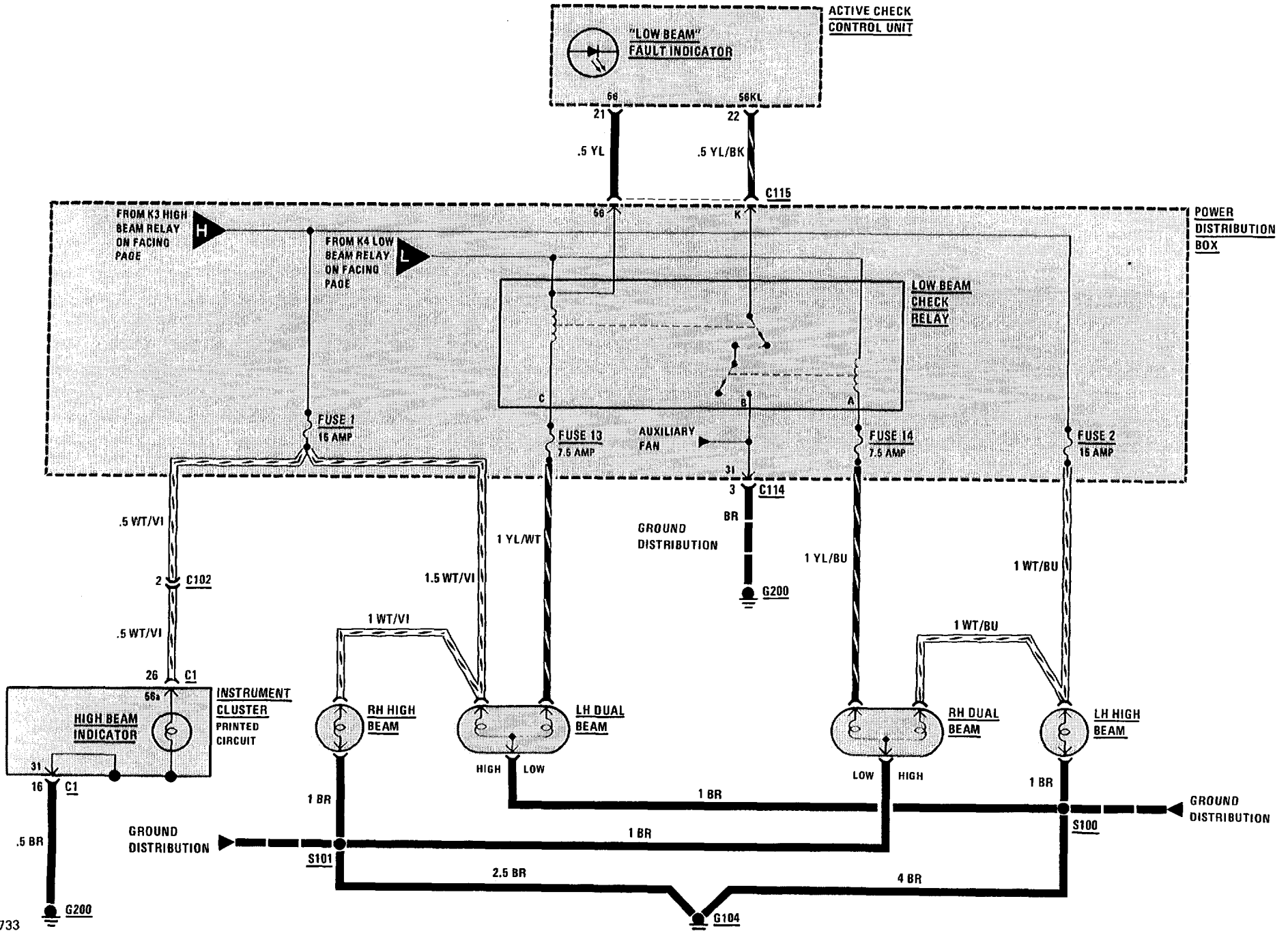
# 128 HEADLIGHTS (CONTROL)/FOG LIGHTS

(For Component Locations See Page 205)



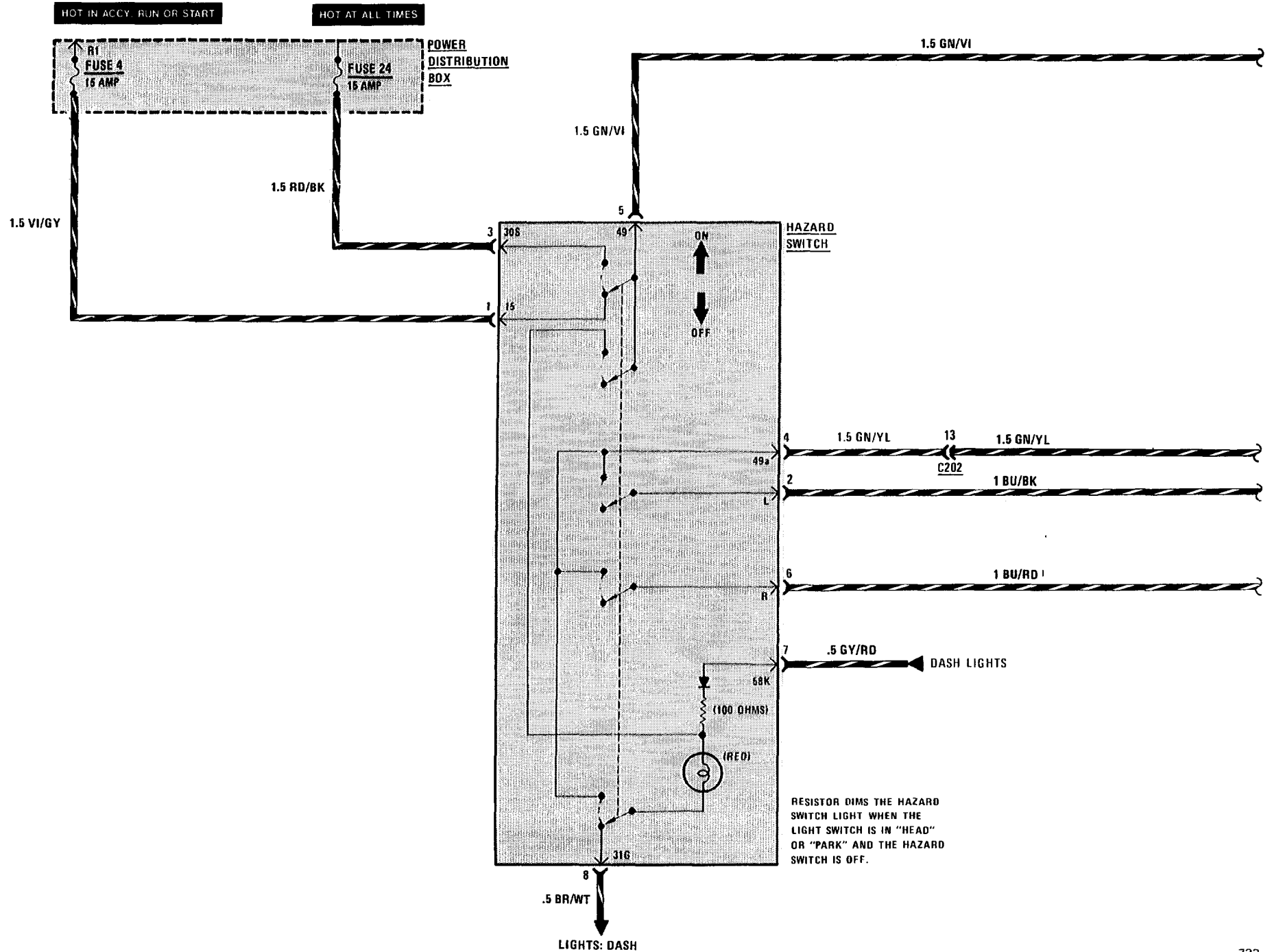
# HEADLIGHTS (POWER) 129

(For Component Locations See Page 205)

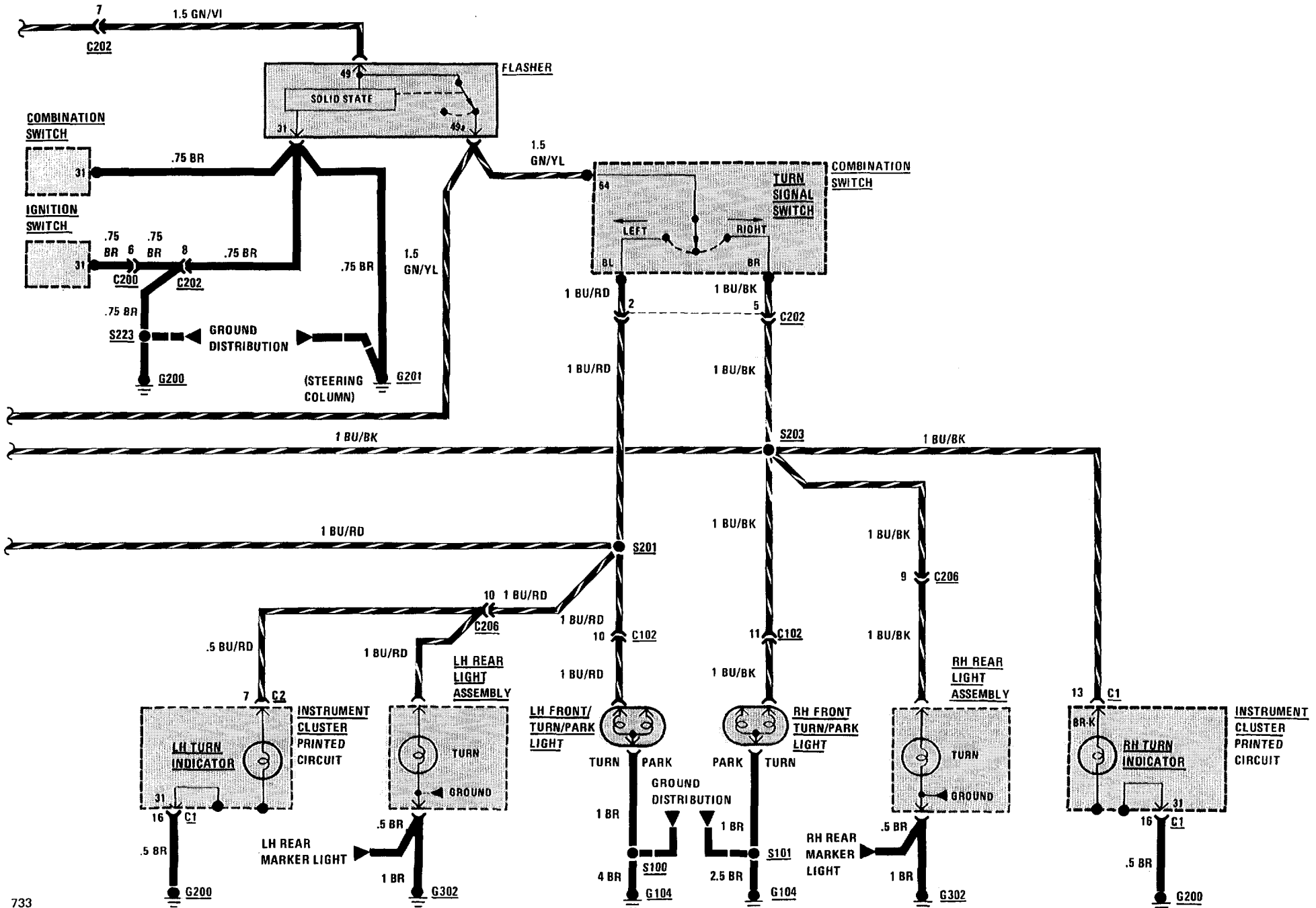


# 130 LIGHTS: TURN/HAZARD WARNING

(For Component Locations See Page 209)

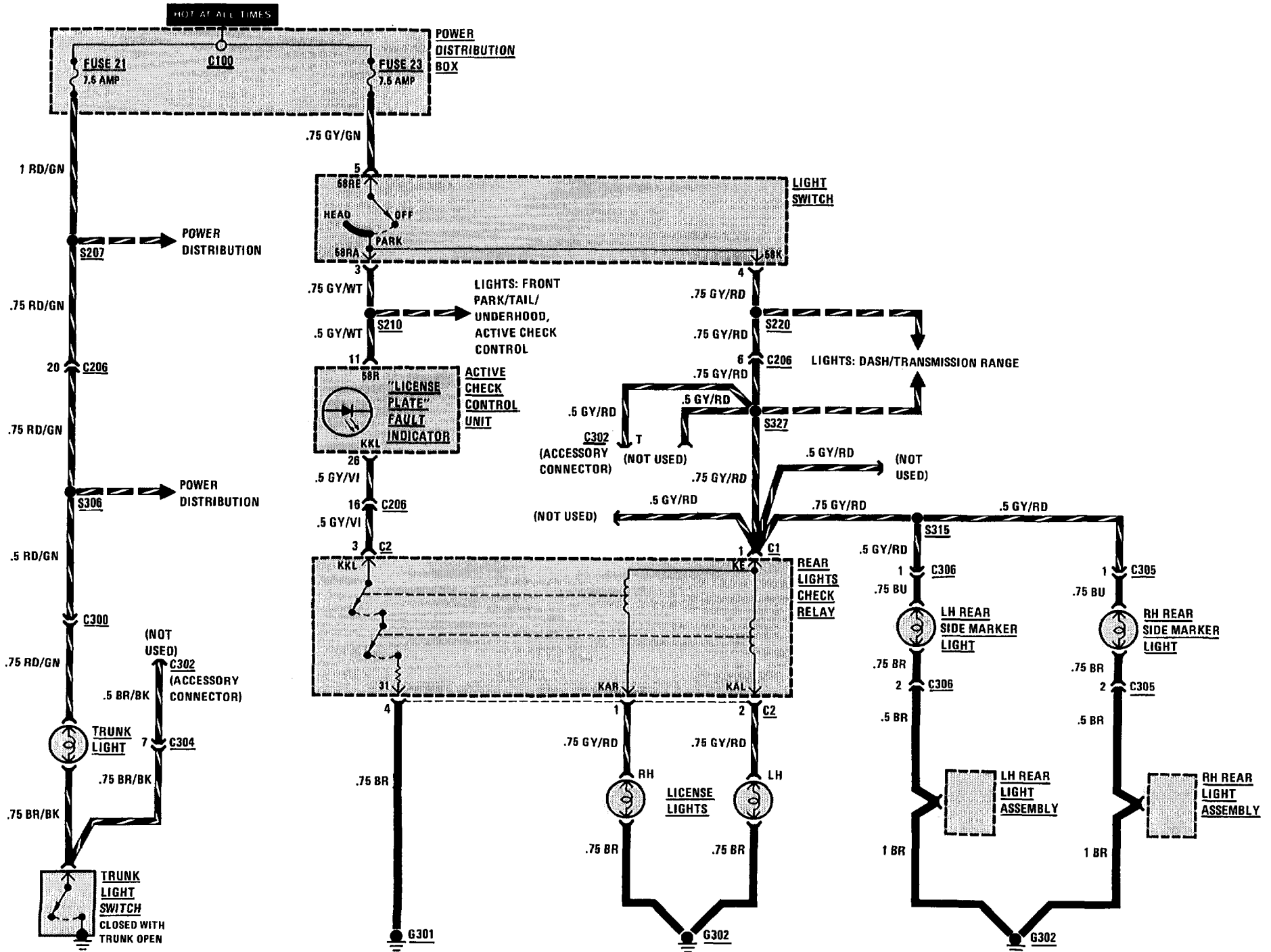


(For Component Locations See Page 209)





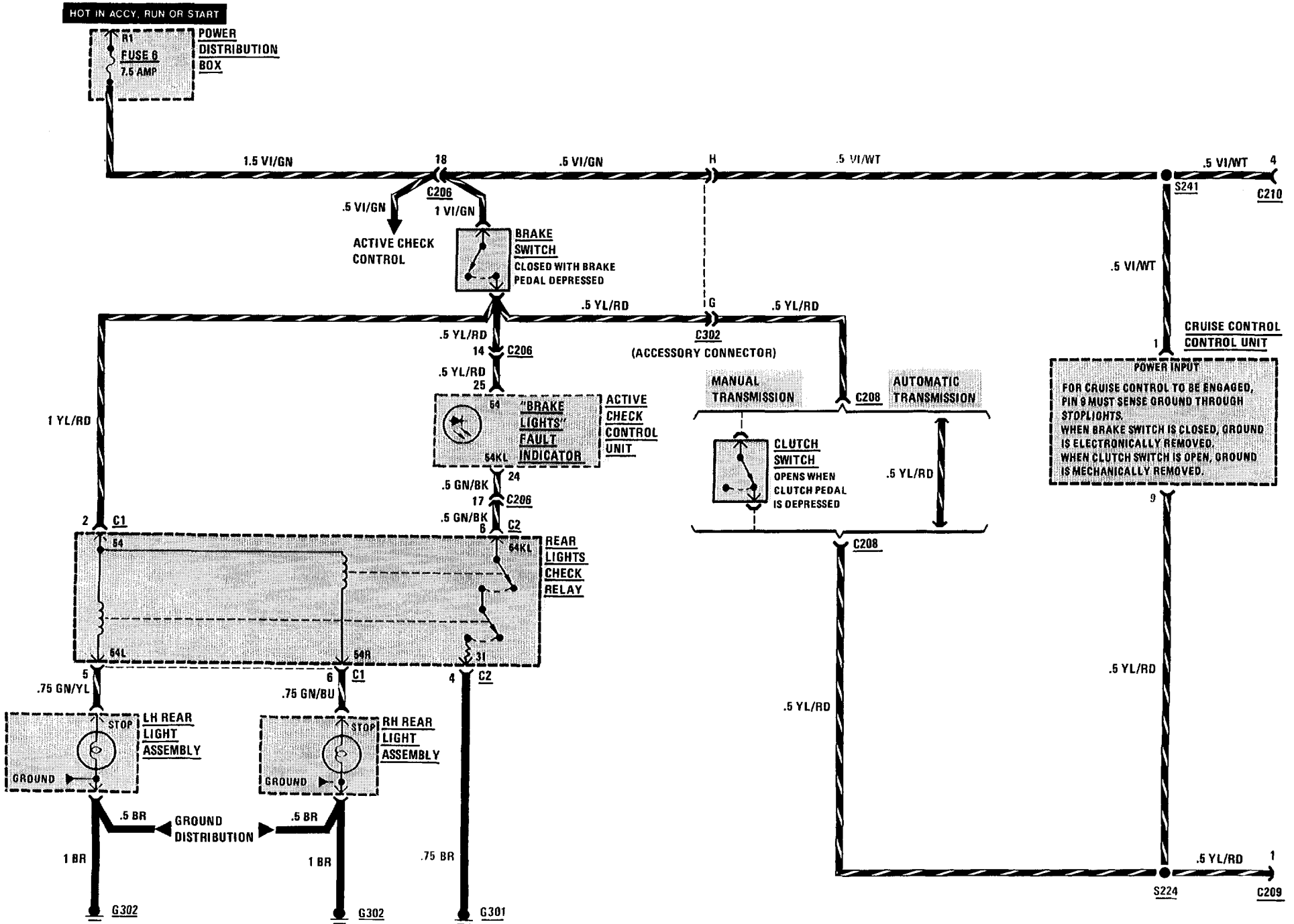
(For Component Locations See Page 208)





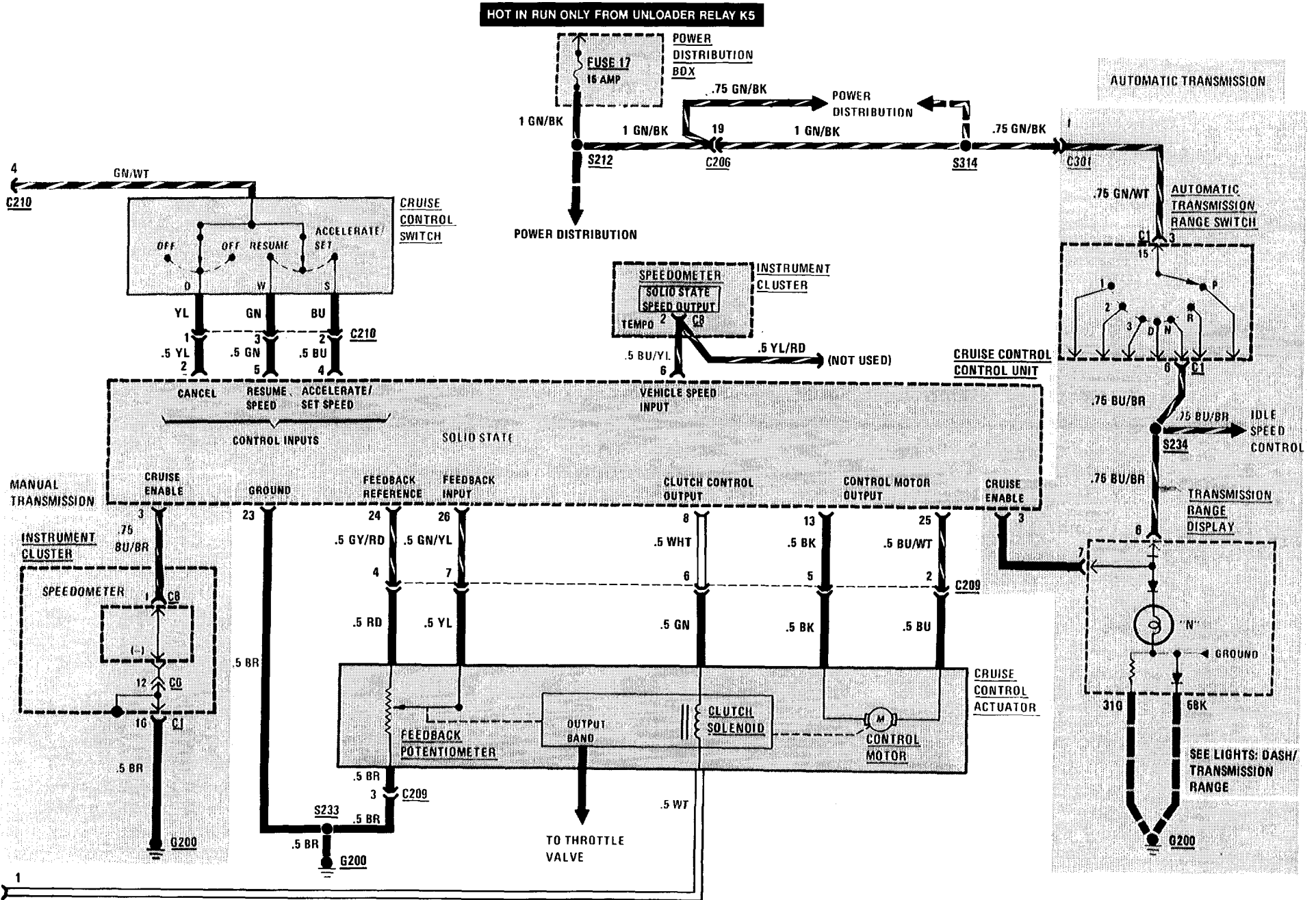
# 134 STOPLIGHTS/CRUISE CONTROL

(For Component Locations See Page 215)



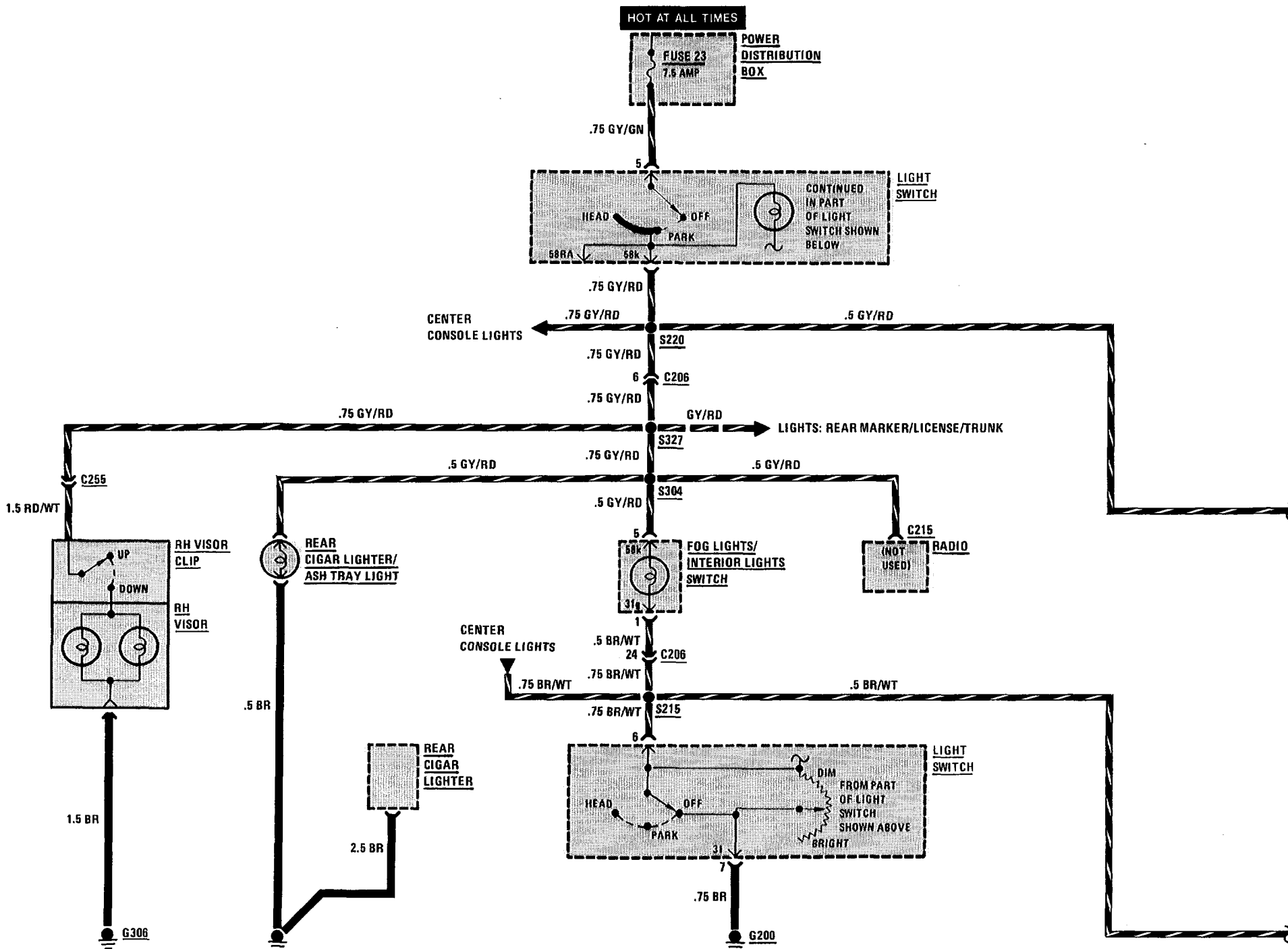


(For Component Locations See Page 215)



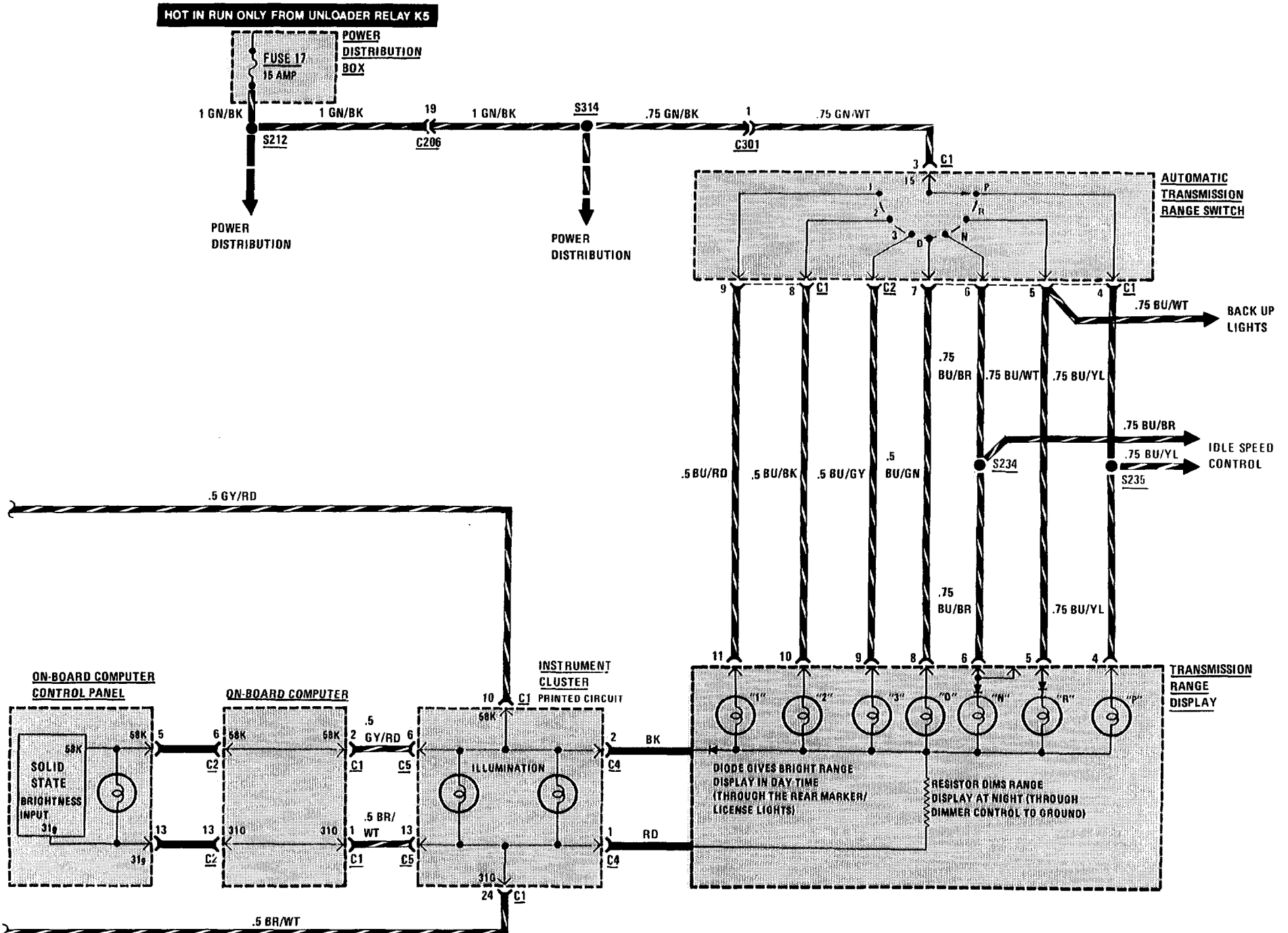
# 136 LIGHTS: RH VISOR/DASH/TRANSMISSION RANGE

(For Component Locations See Page 208)



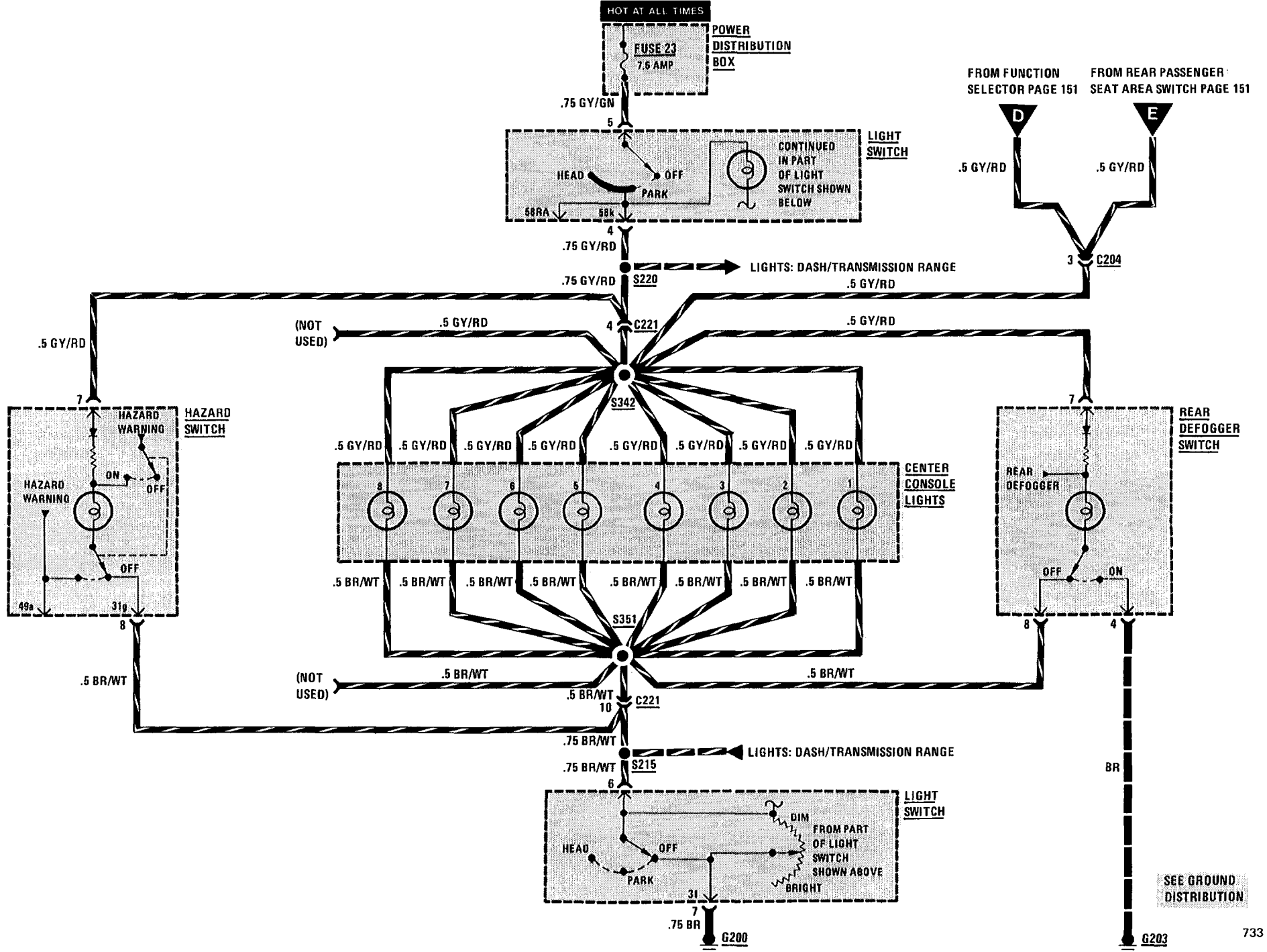
# LIGHTS: DASH/TRANSMISSION RANGE 137

(For Component Locations See Page 208)

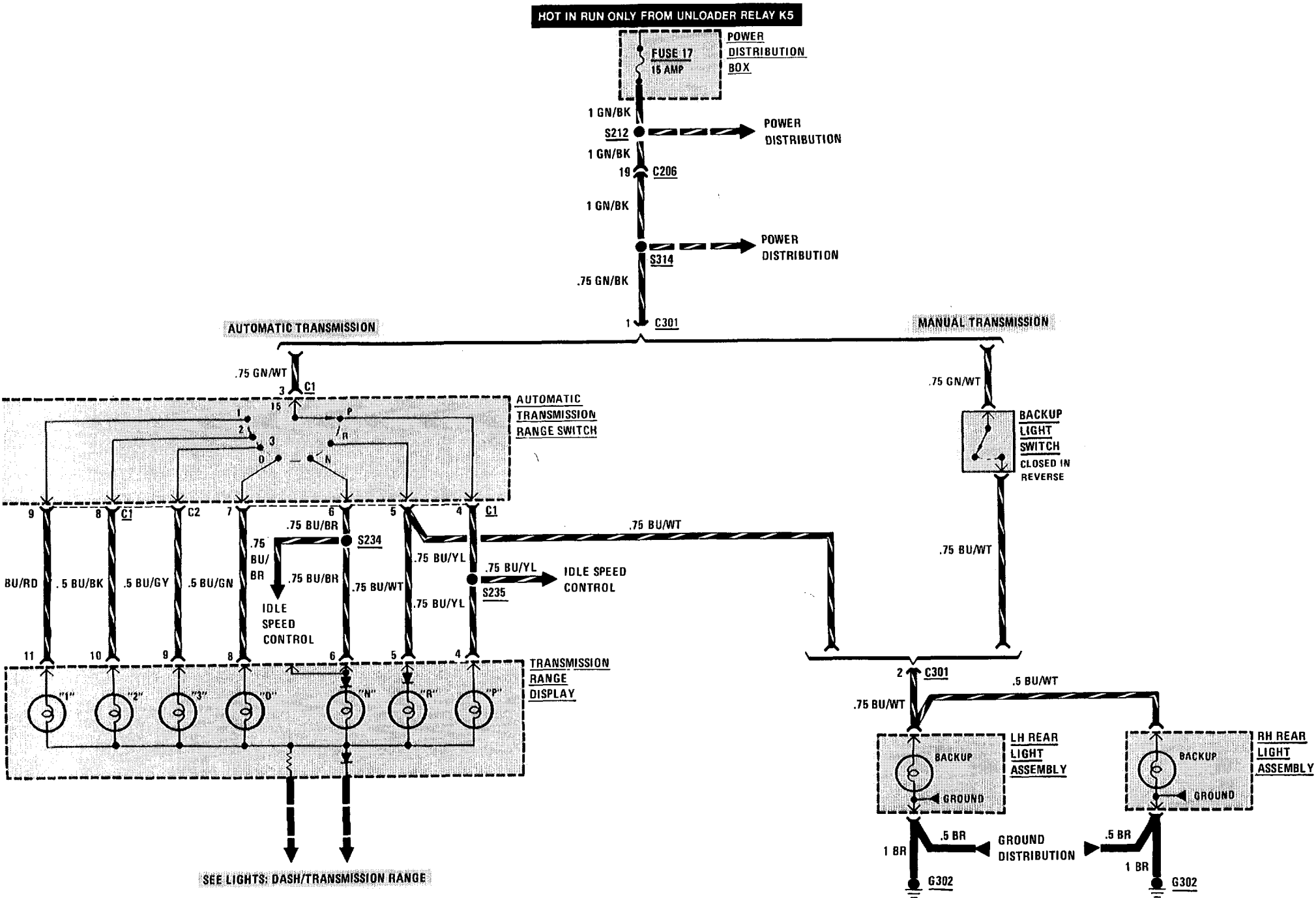


# 138 CENTER CONSOLE LIGHTS

(For Component Locations See Page 203)

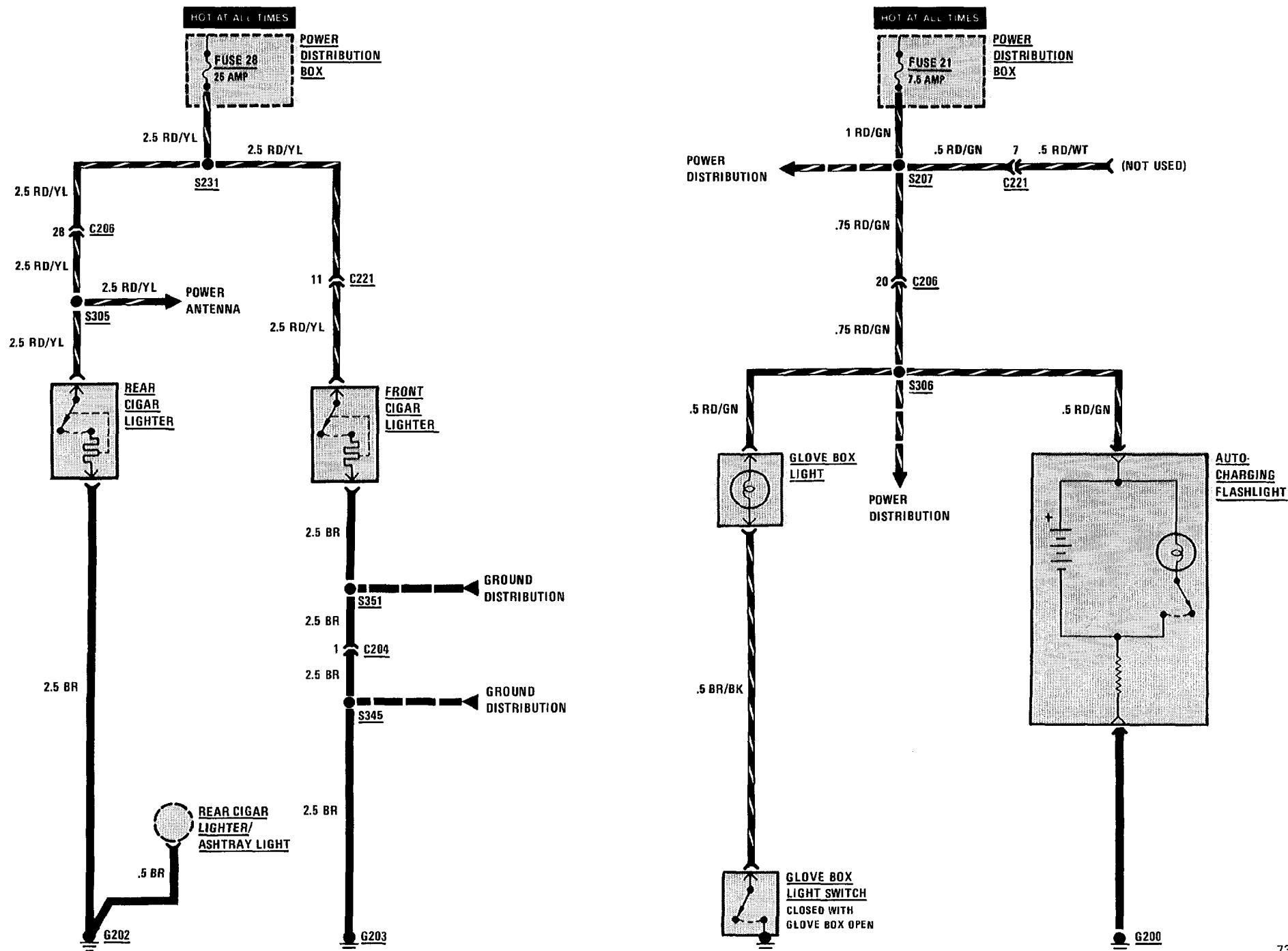


(For Component Locations See Page 202)

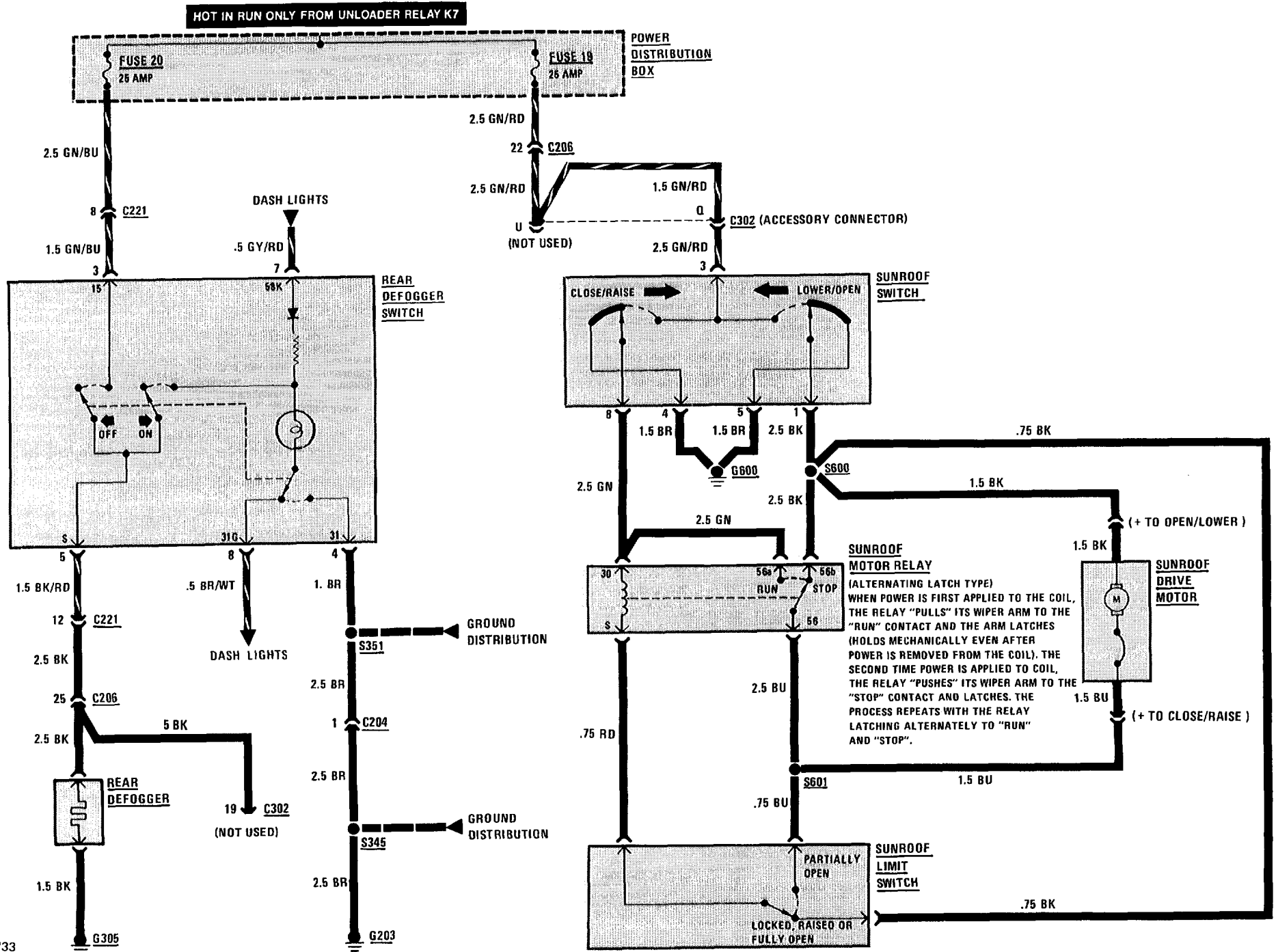


# 140 CIGAR LIGHTER/GLOVEBOX LIGHT/AUTO-CHARGING FLASHLIGHT

(For Component Locations See Page 204)



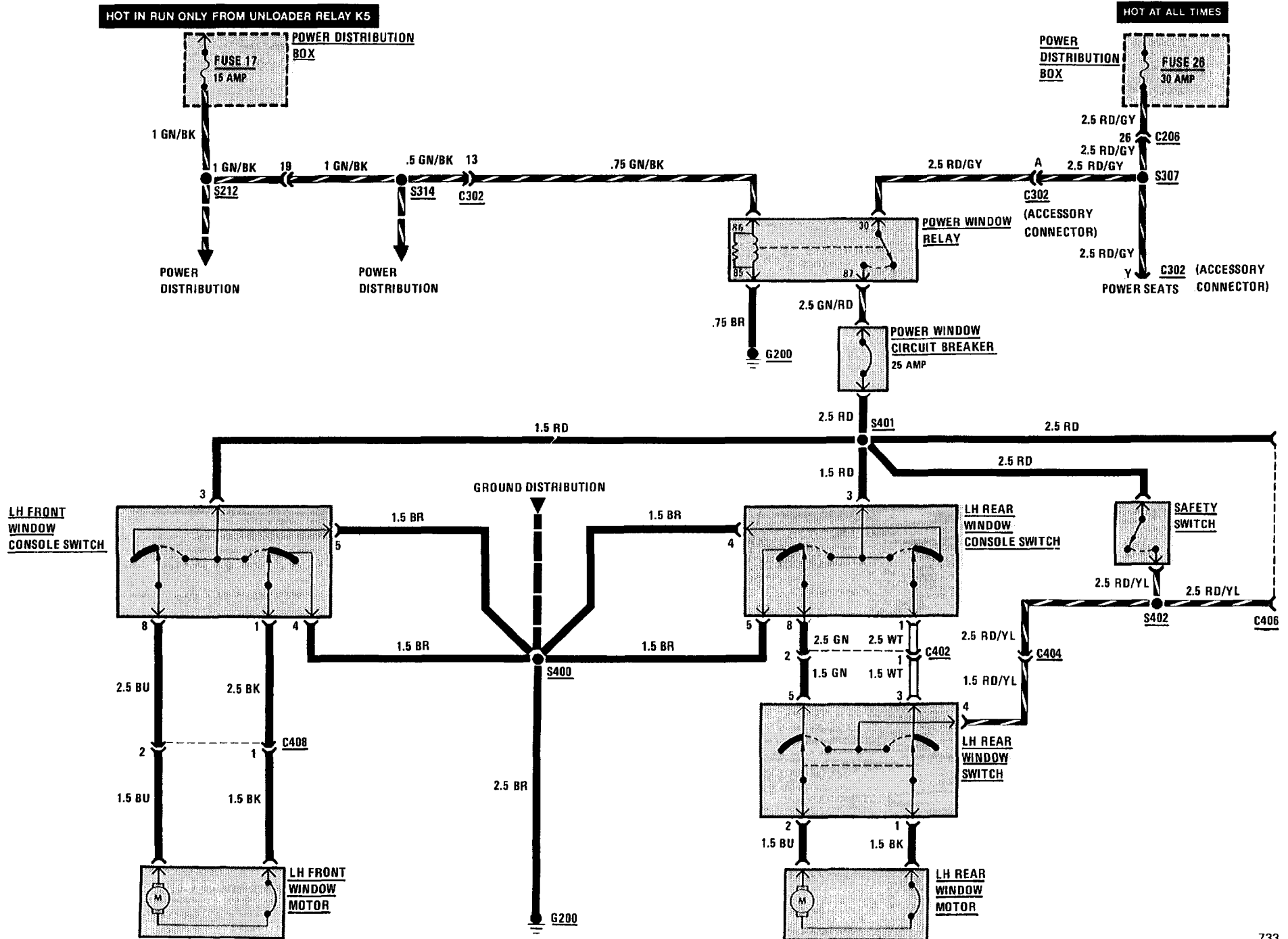
(For Component Locations See Page 211)





# 142 POWER WINDOWS

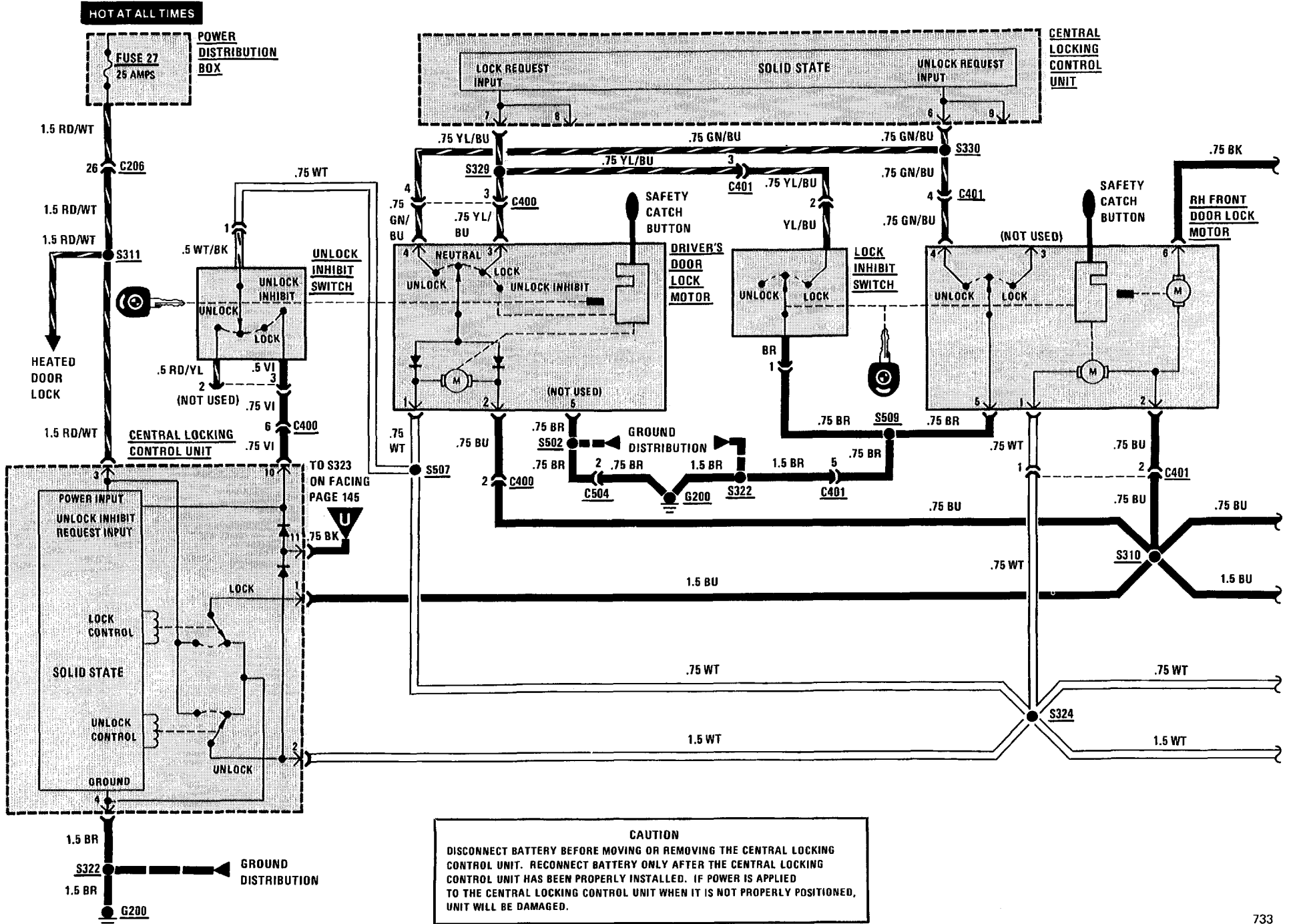
(For Component Locations See Page 210)



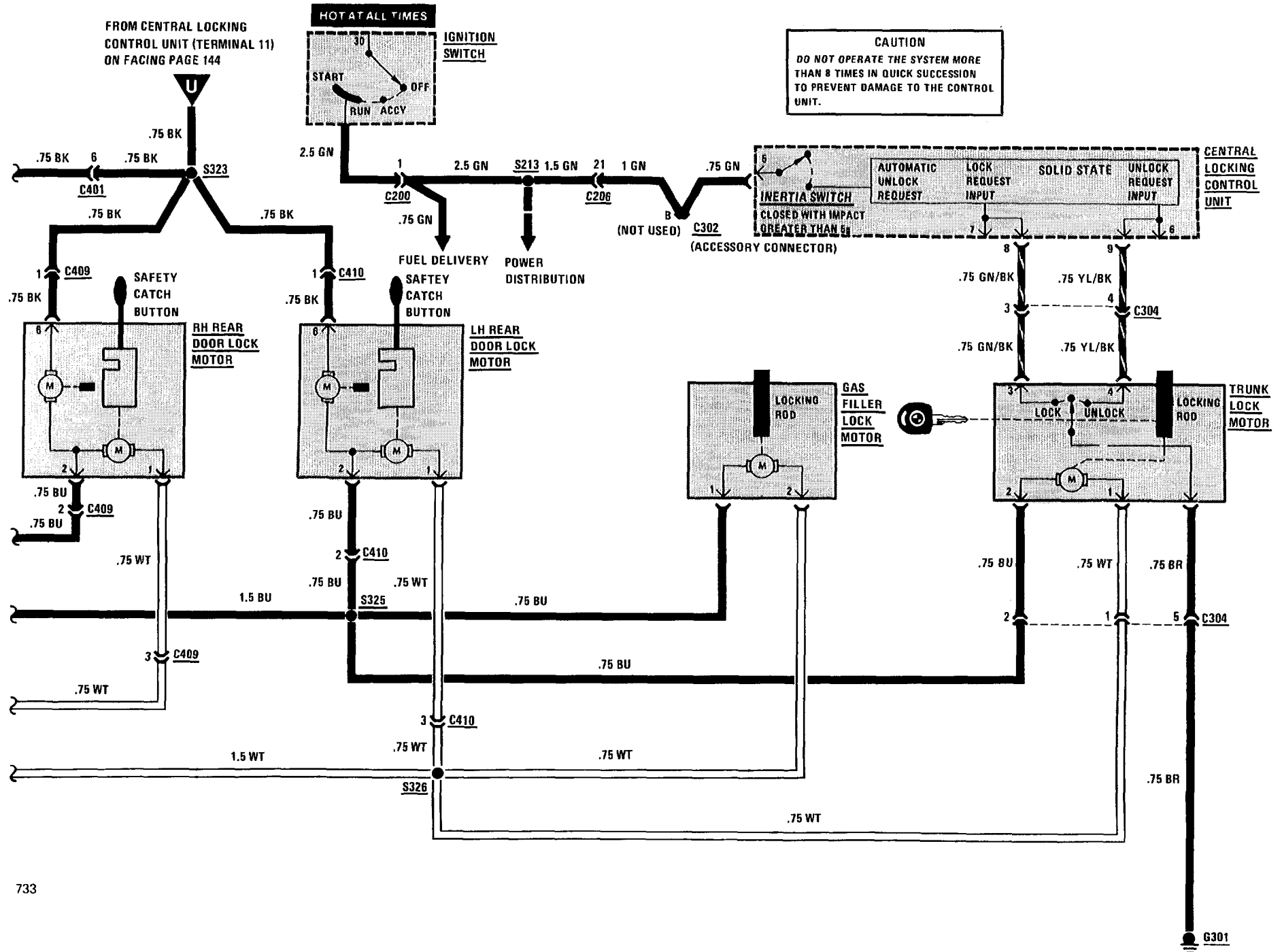


# 144 CENTRAL LOCKING (SELECT)

(For Component Locations See Page 203)



(For Component Locations See Page 203)



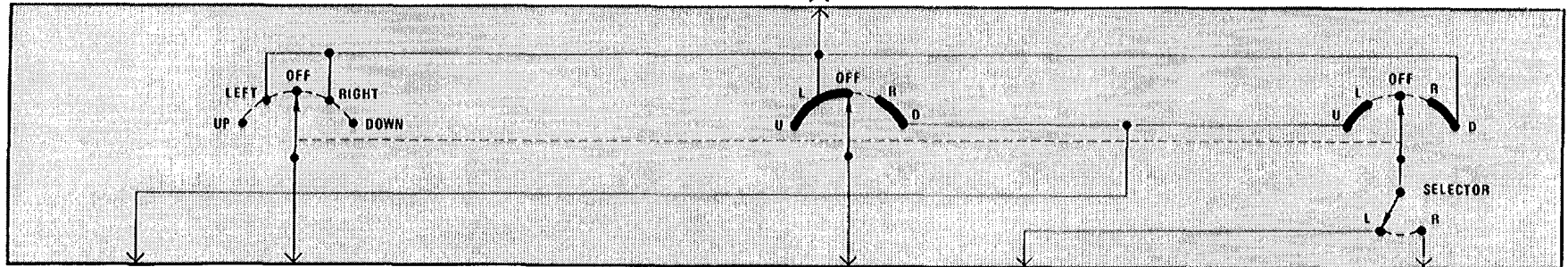
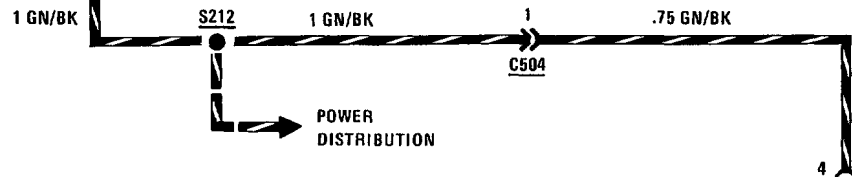
# 146 POWER MIRRORS

(For Component Locations See Page 210)

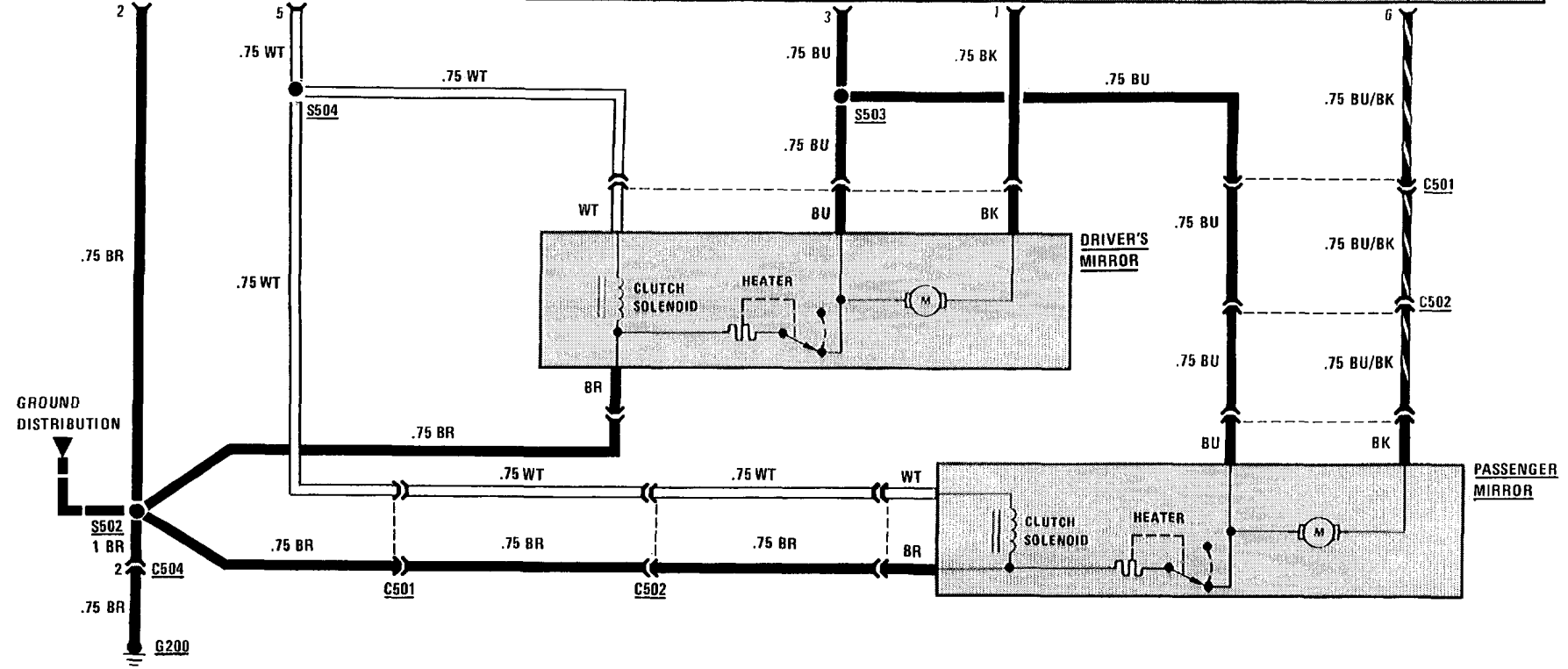
HOT IN RUN ONLY FROM UNLOADER RELAY K5



1. MOTOR DIRECTION CONTROLLED BY POLARITY
2. WITH CLUTCH SOLENOID ENERGIZED MOTOR TURNS MIRROR LEFT OR RIGHT
3. ELECTRICALLY HEATED MIRROR TURNS ON BELOW 59± 9° F AND TURNS OFF ABOVE 122± 18° F



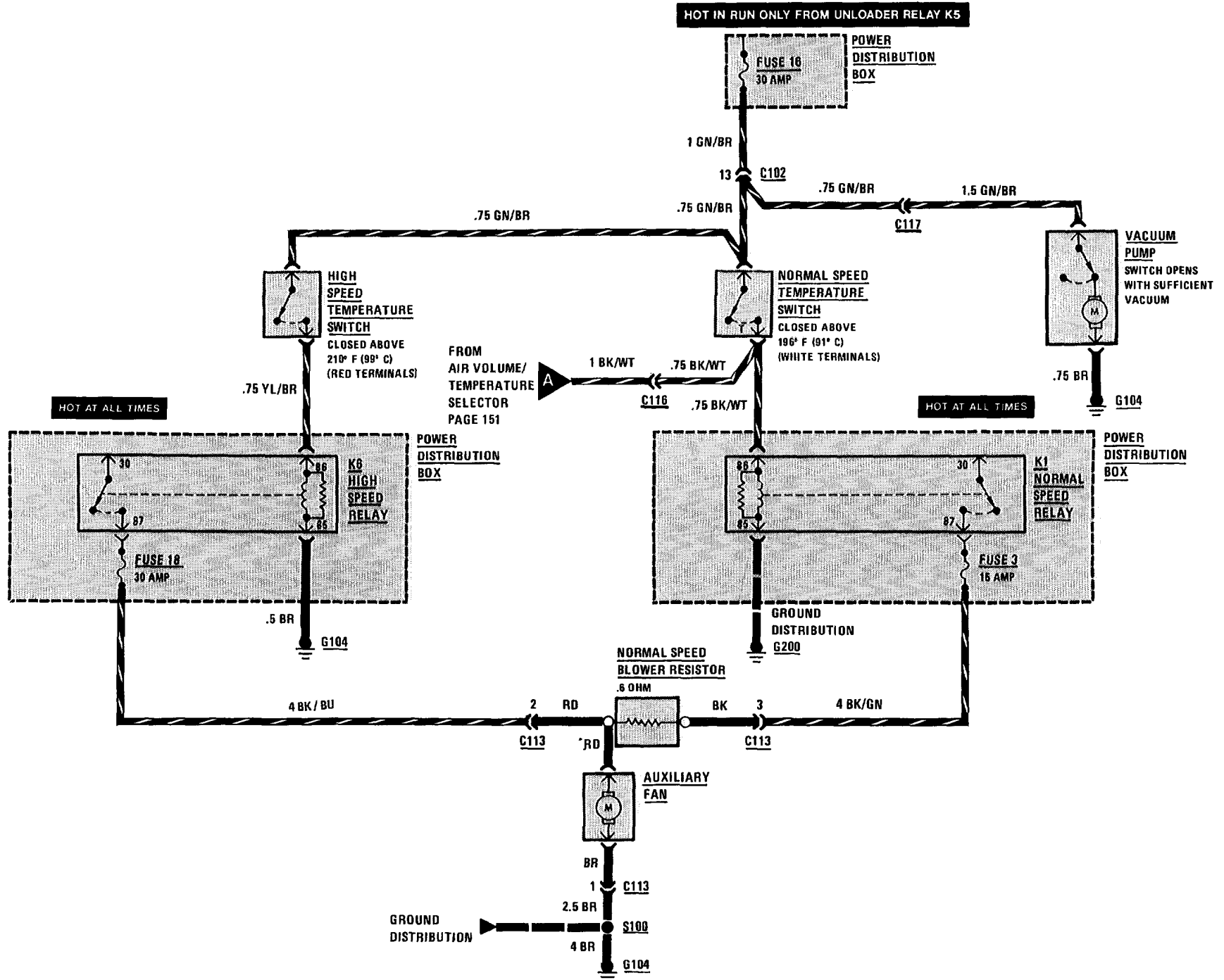
MIRROR CONTROL SWITCH





# 148 AUXILIARY FAN/VACUUM PUMP

(For Component Locations See Page 202)







# 150 AUTOMATIC HEATER-AIR CONDITIONER (AIR CONTROL)

(For Component Locations See Page 201)

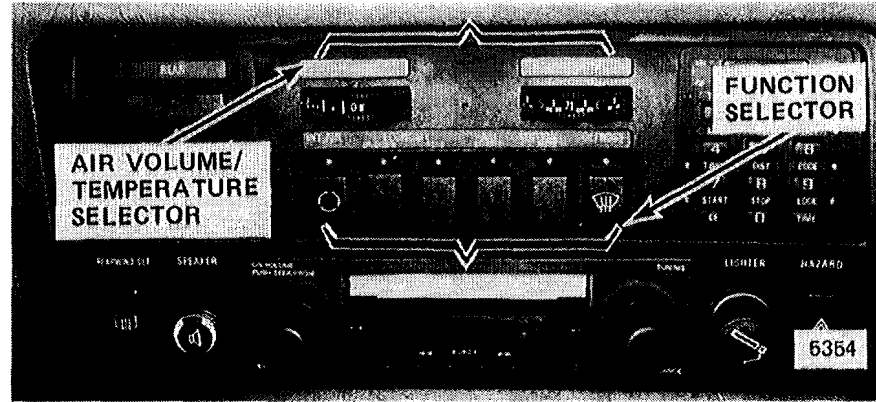
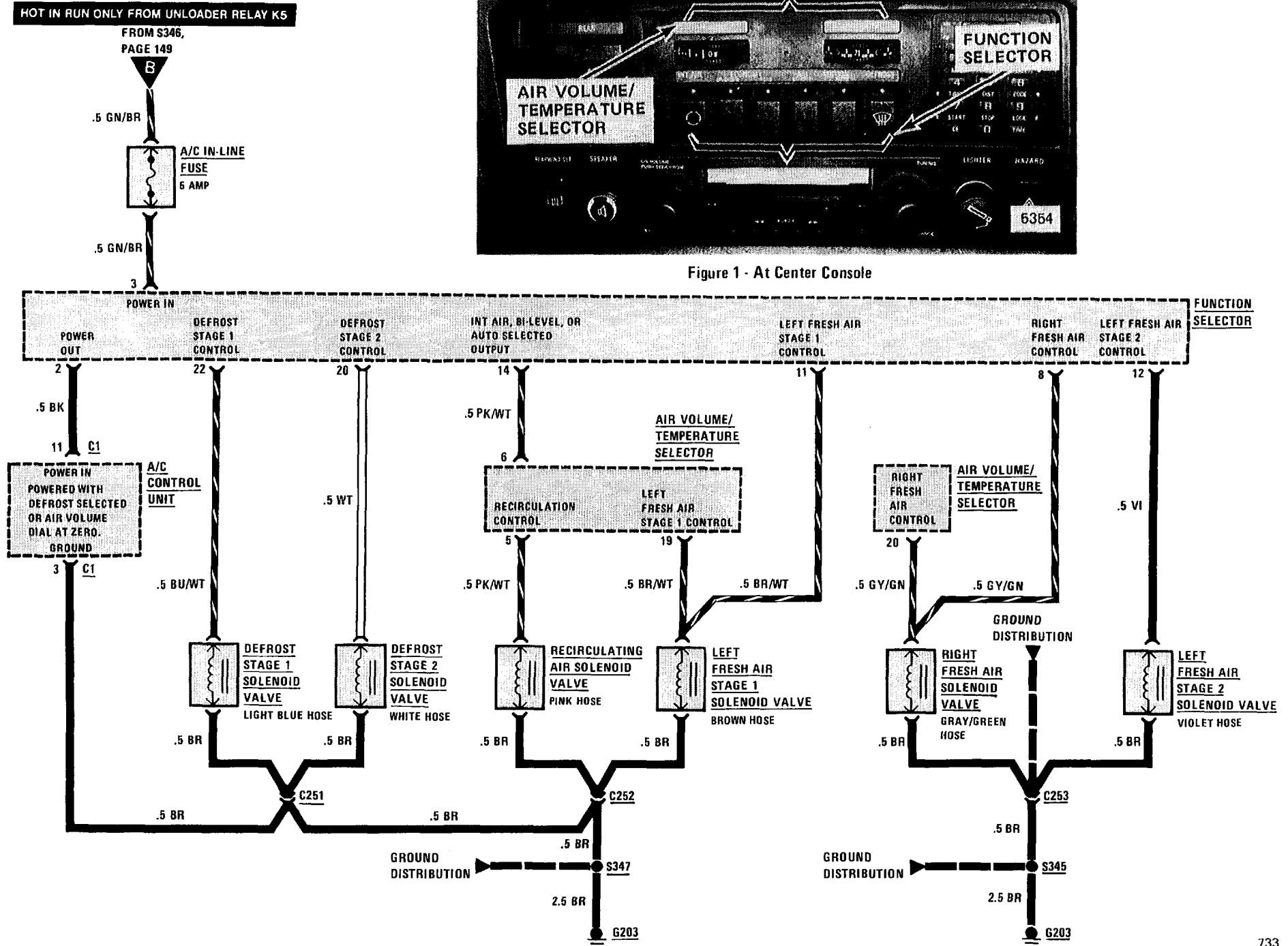


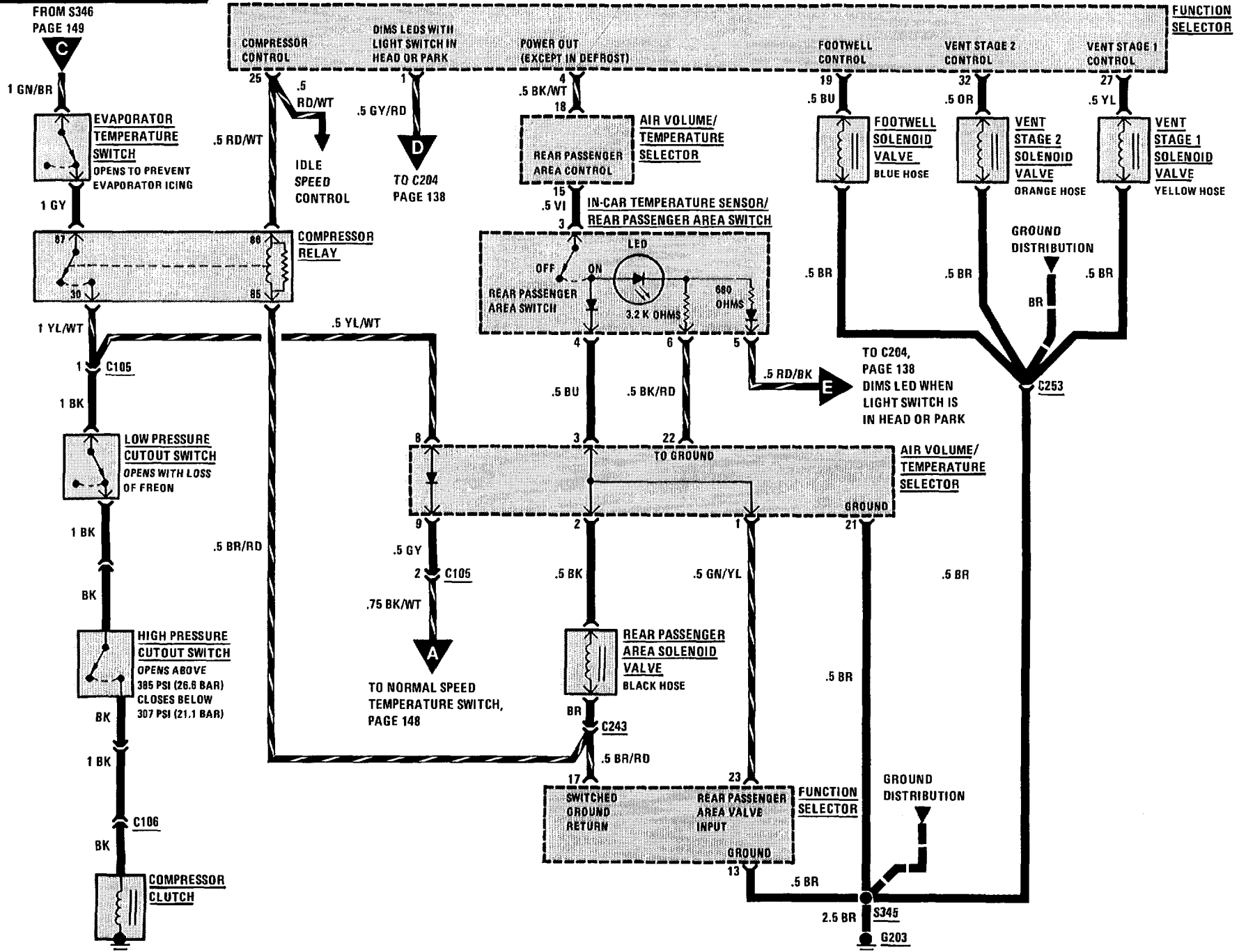
Figure 1 - At Center Console



# AUTOMATIC HEATER-AIR CONDITIONER (AIR/COMPRESSOR CONTROL) 151

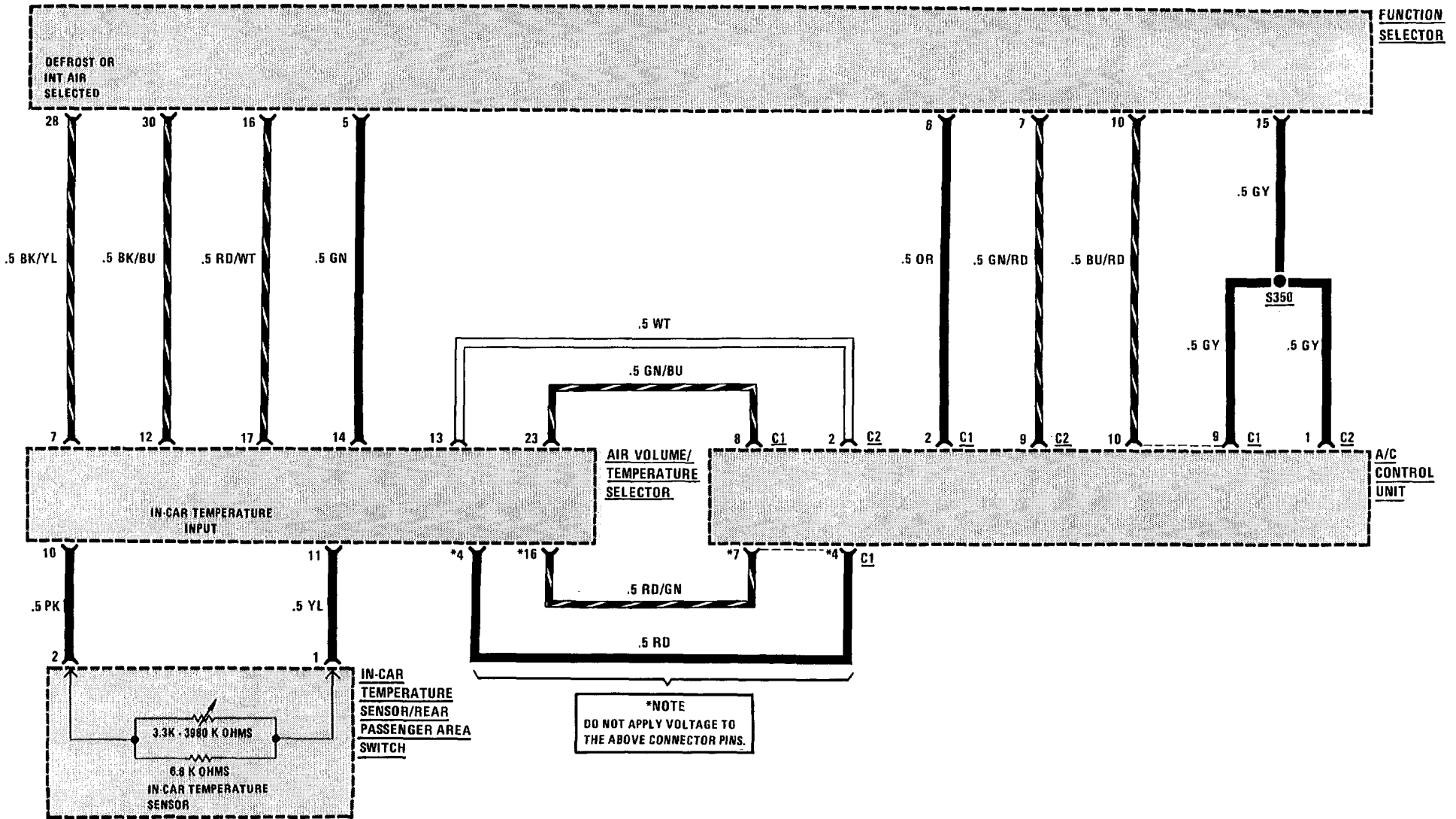
(For Component Locations See Page 201)

**HOT IN RUN ONLY FROM UNLOADER RELAY K5**



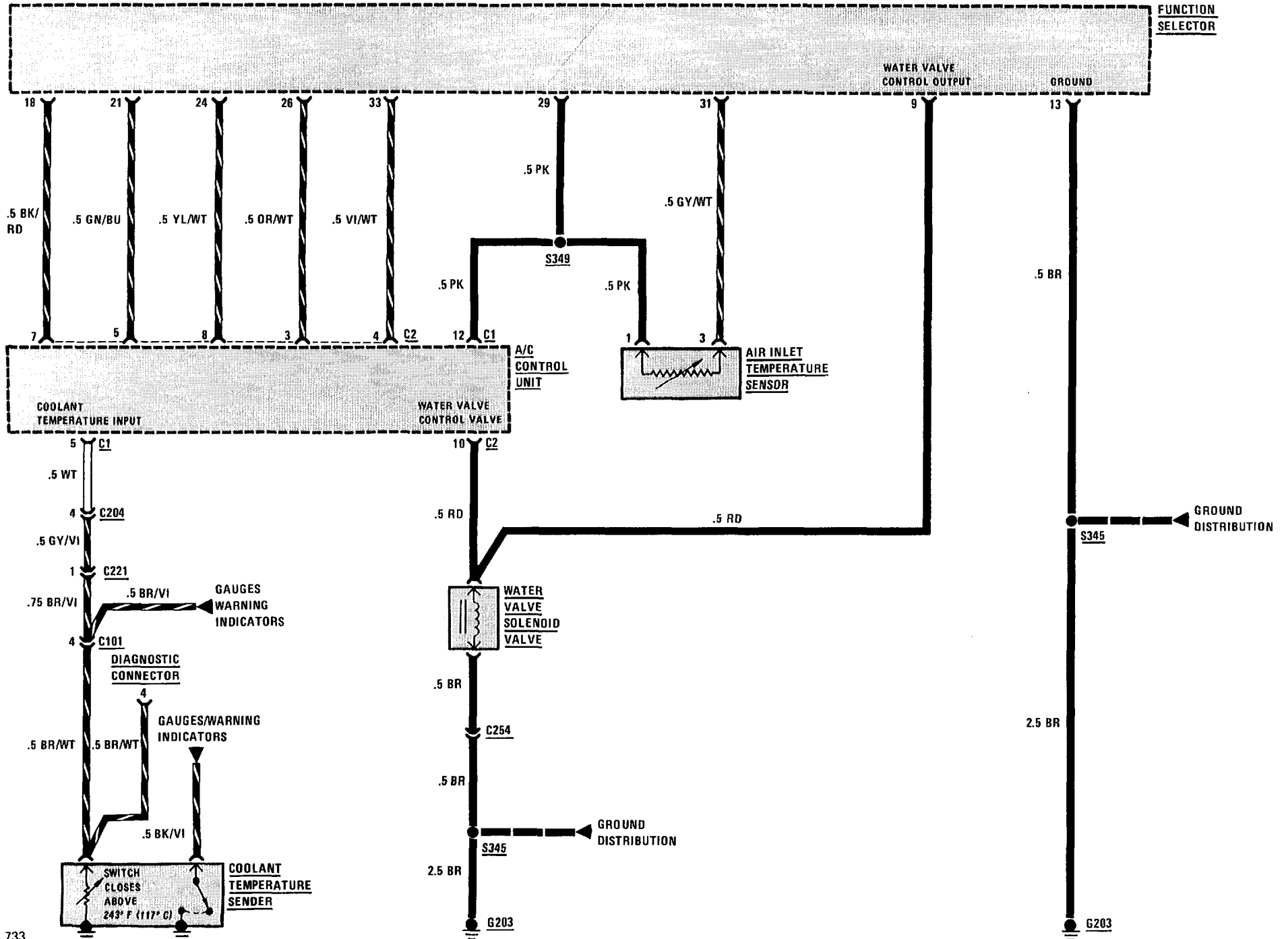
# 152 AUTOMATIC HEATER-AIR CONDITIONER (TEMPERATURE CONTROL)

(For Component Locations See Page 201)



# AUTOMATIC HEATER-AIR CONDITIONER (TEMPERATURE CONTROL) 153

(For Component Locations See Page 201)





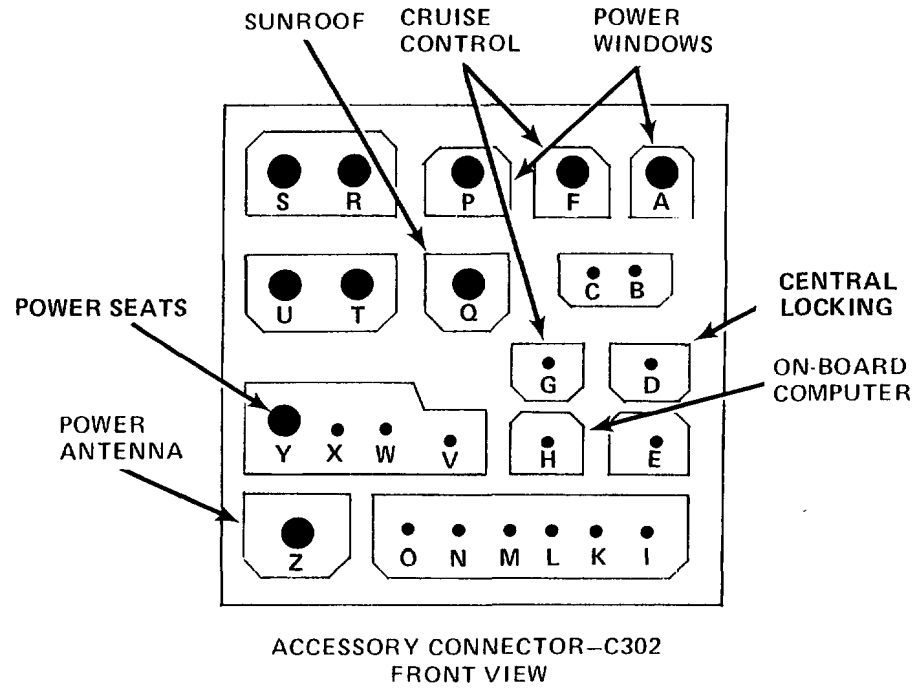
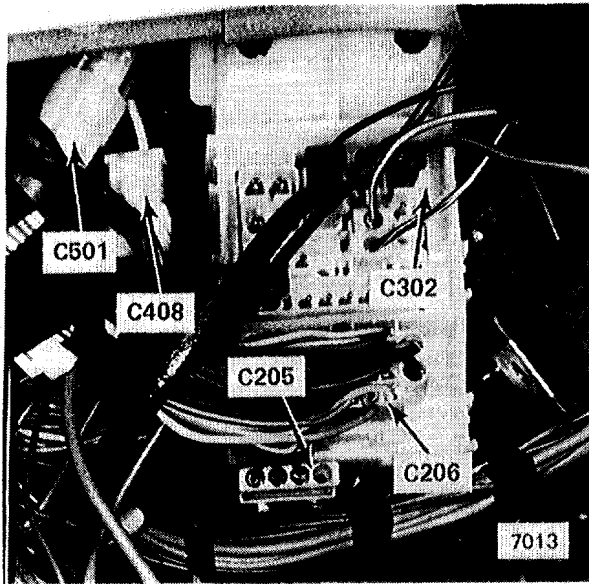
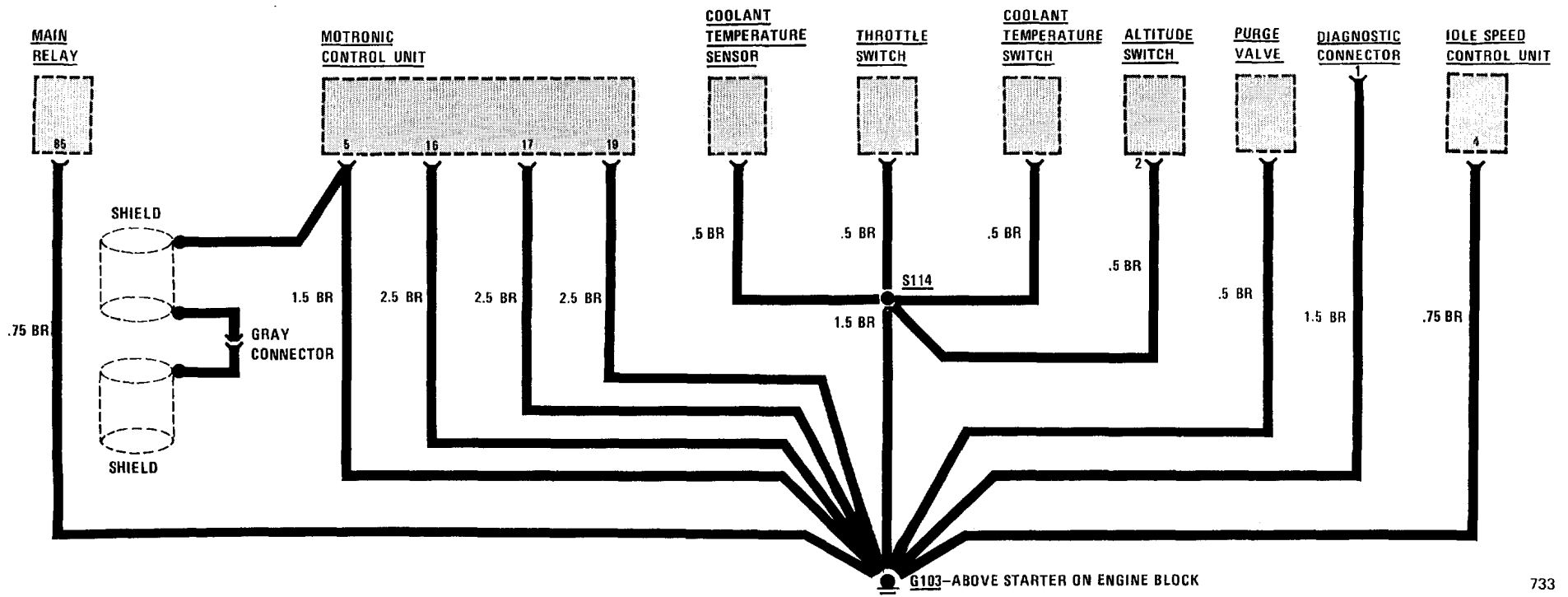
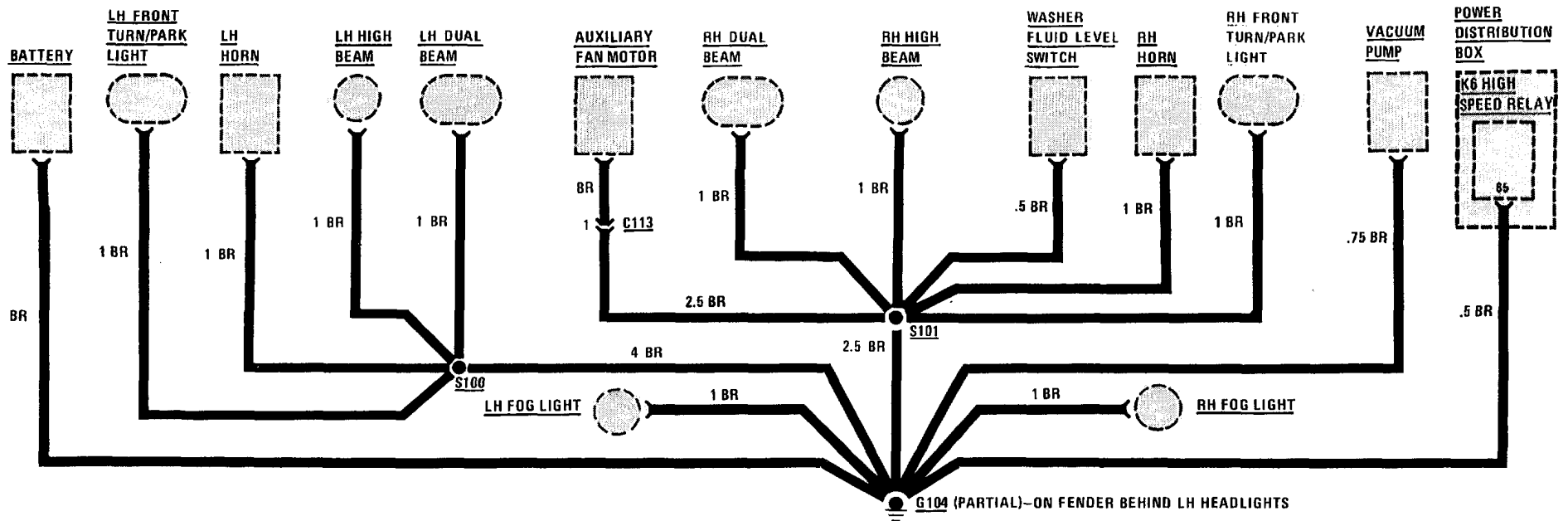
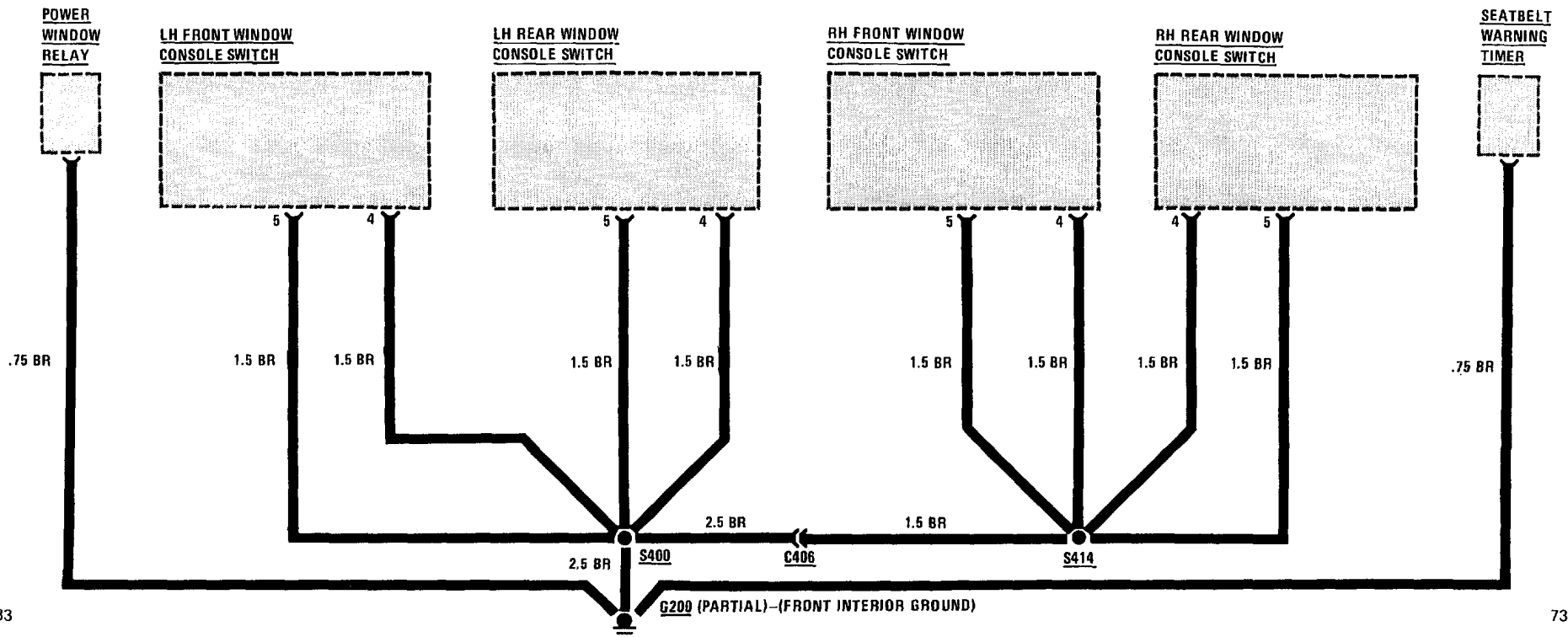
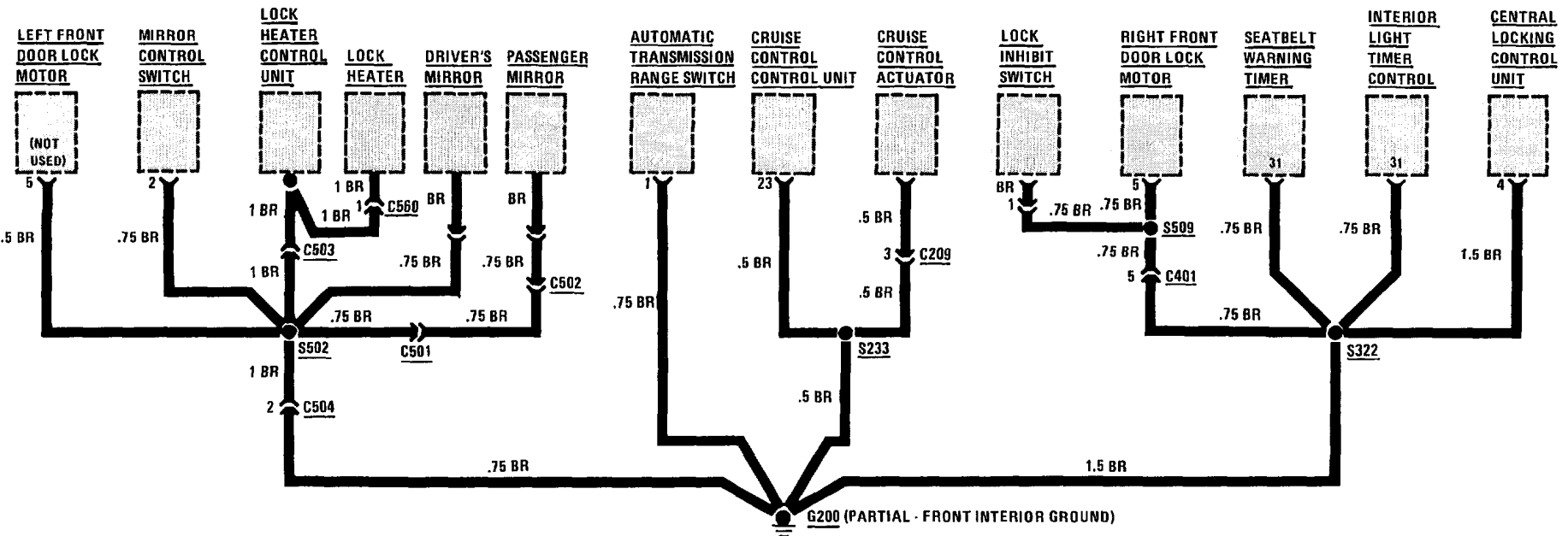


Figure 1 - Under Left Side Of Dash

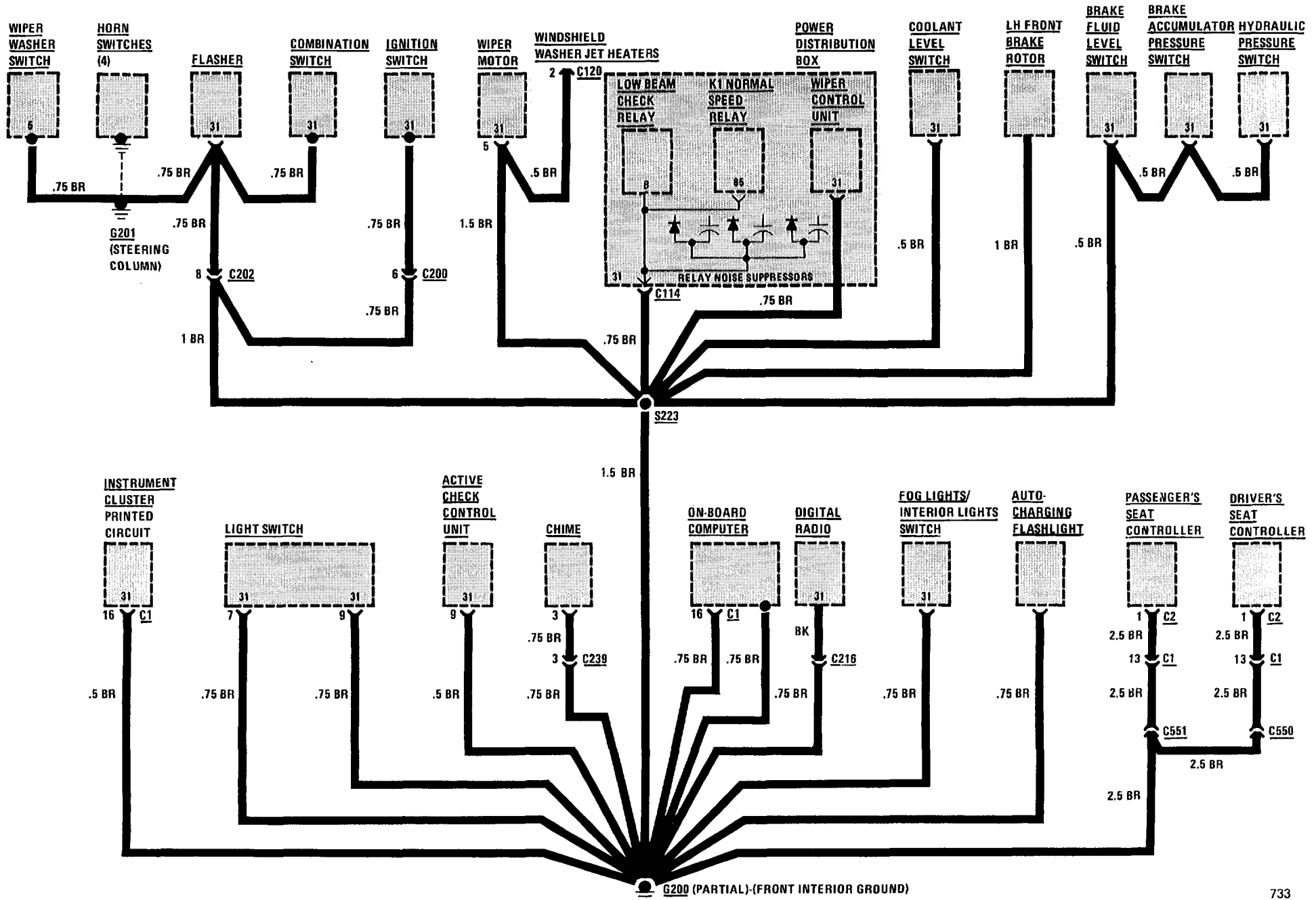


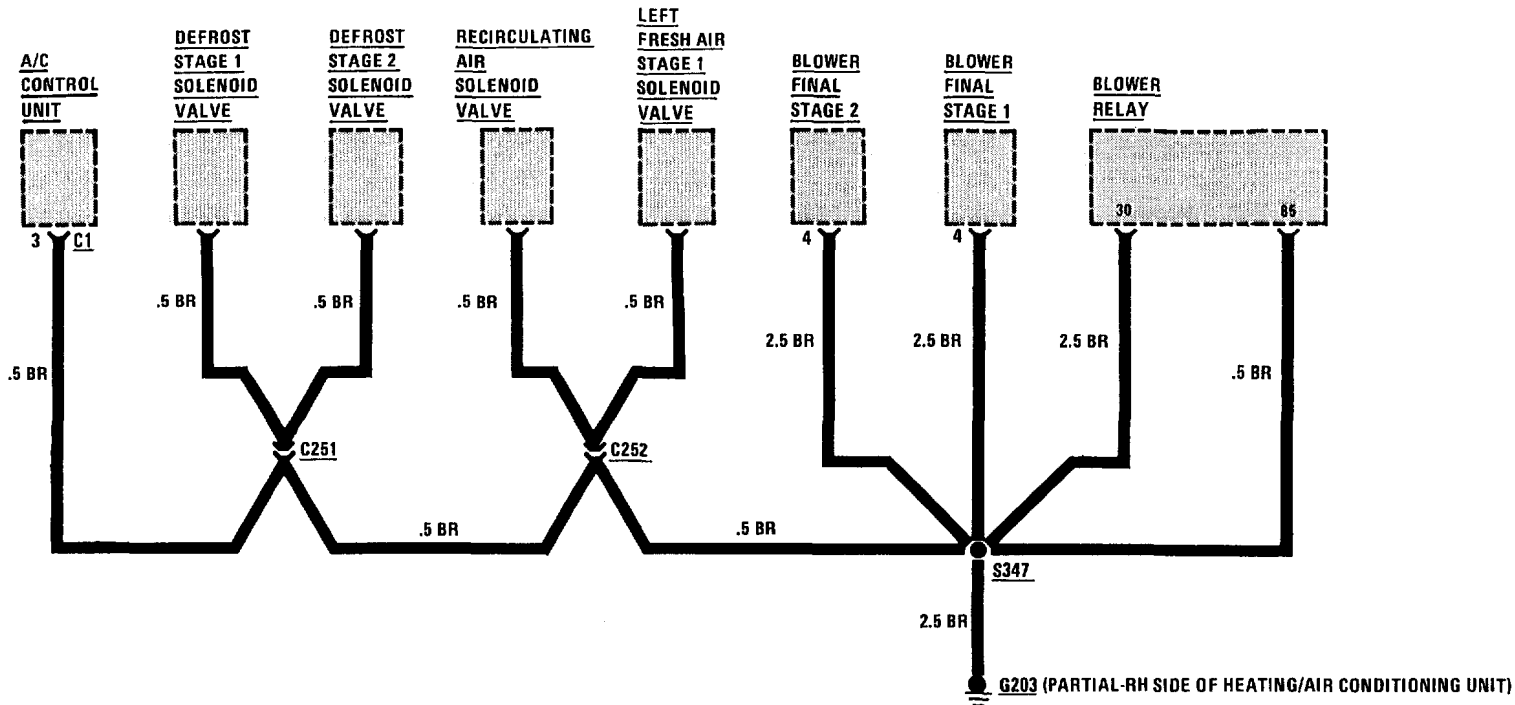
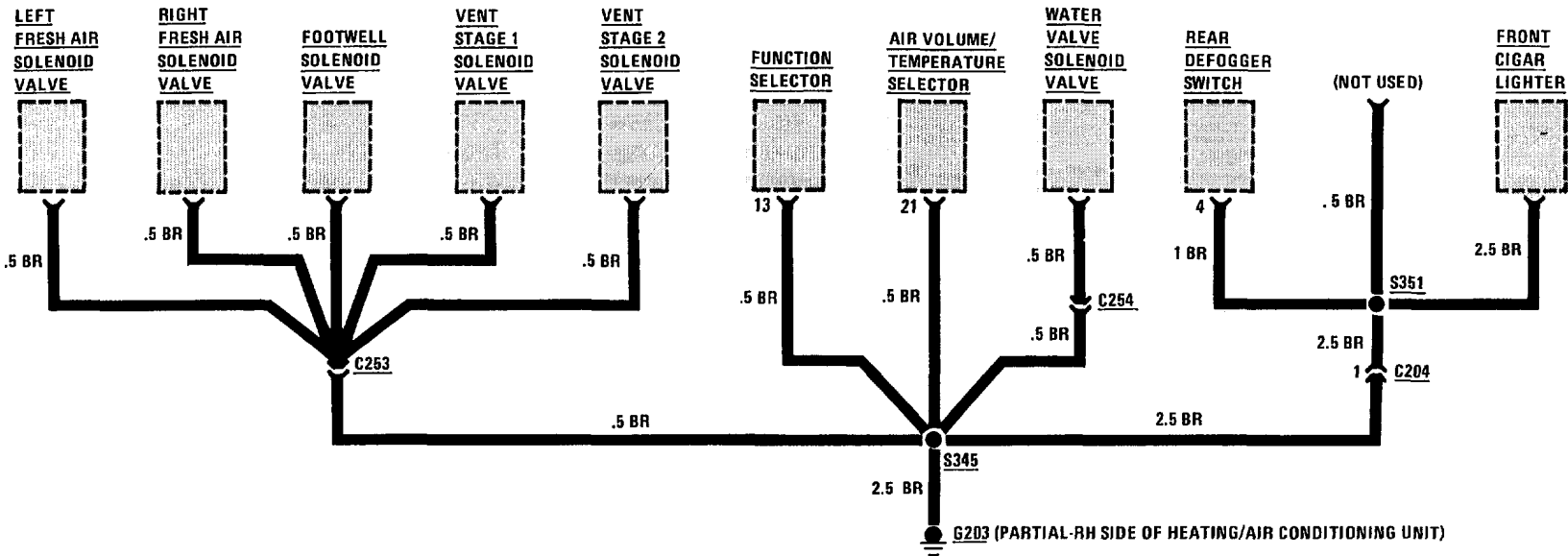
# 156 GROUND DISTRIBUTION



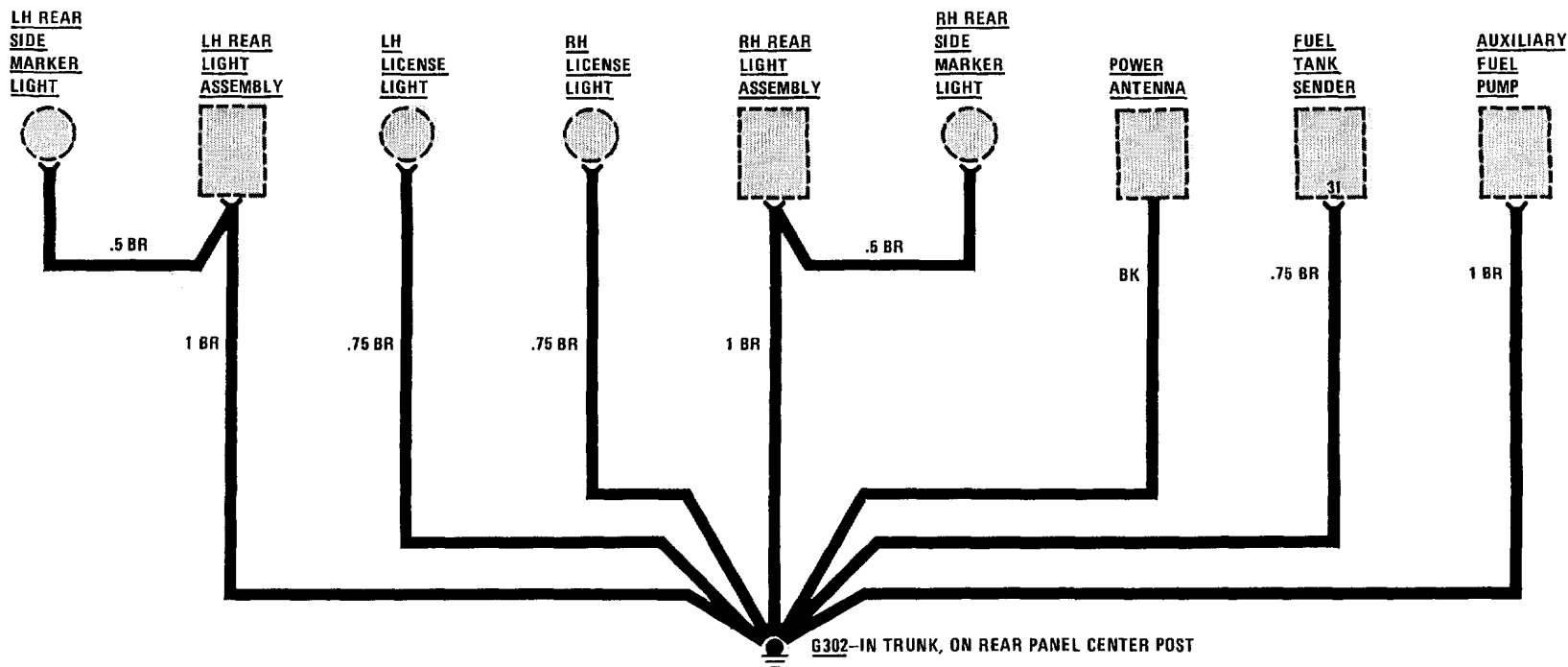
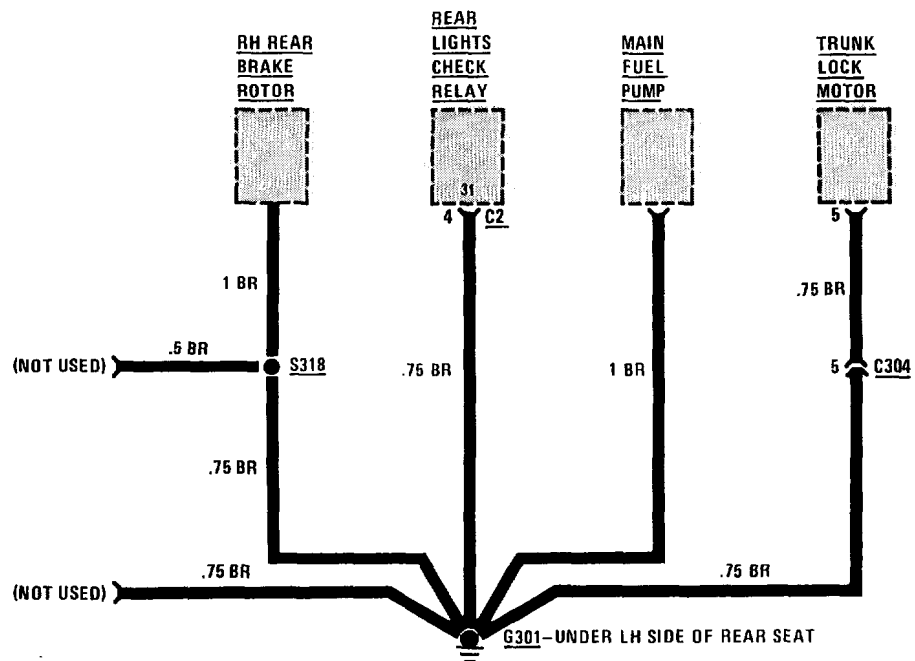


# 158 GROUND DISTRIBUTION

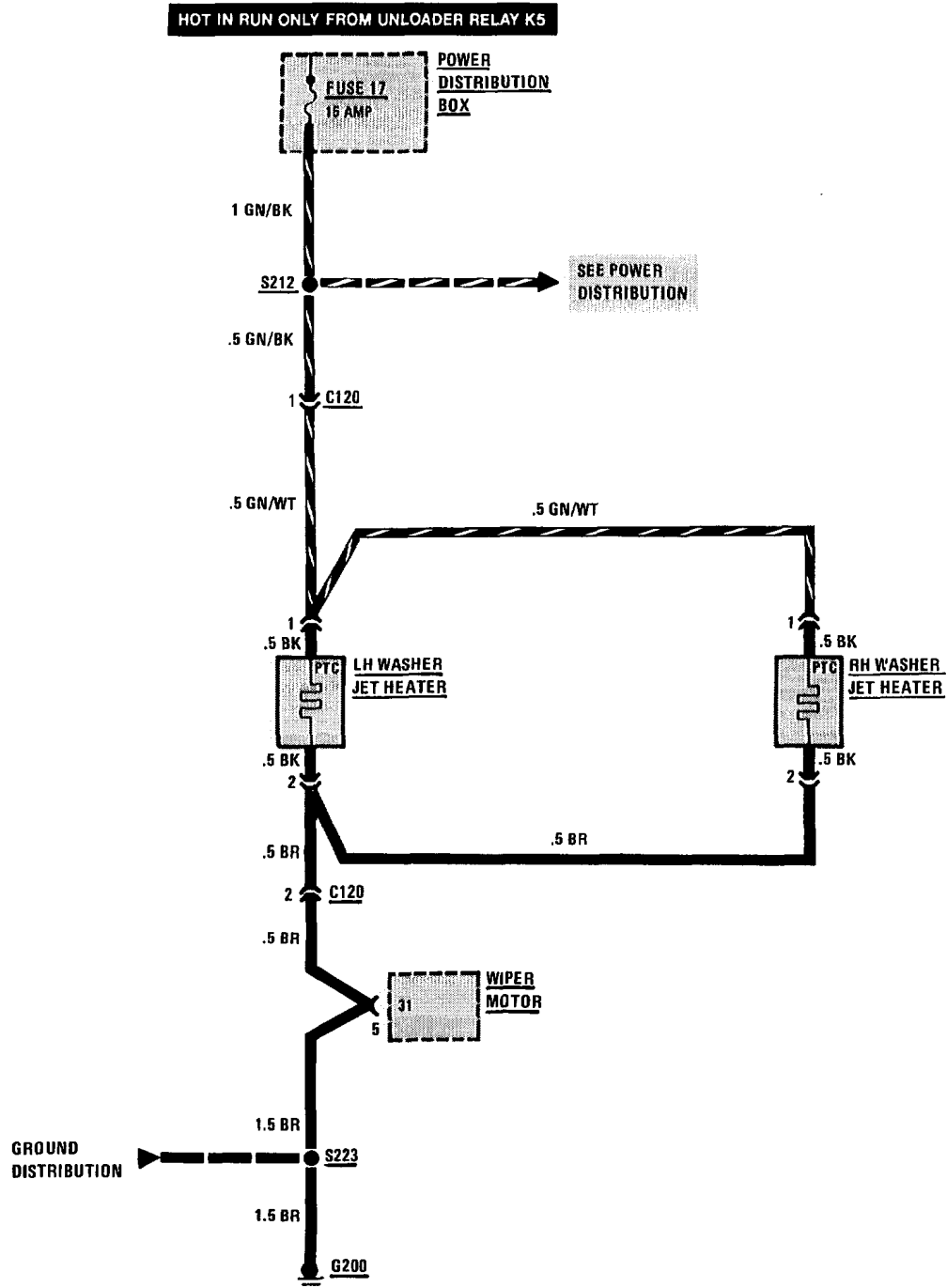




# 160 GROUND DISTRIBUTION

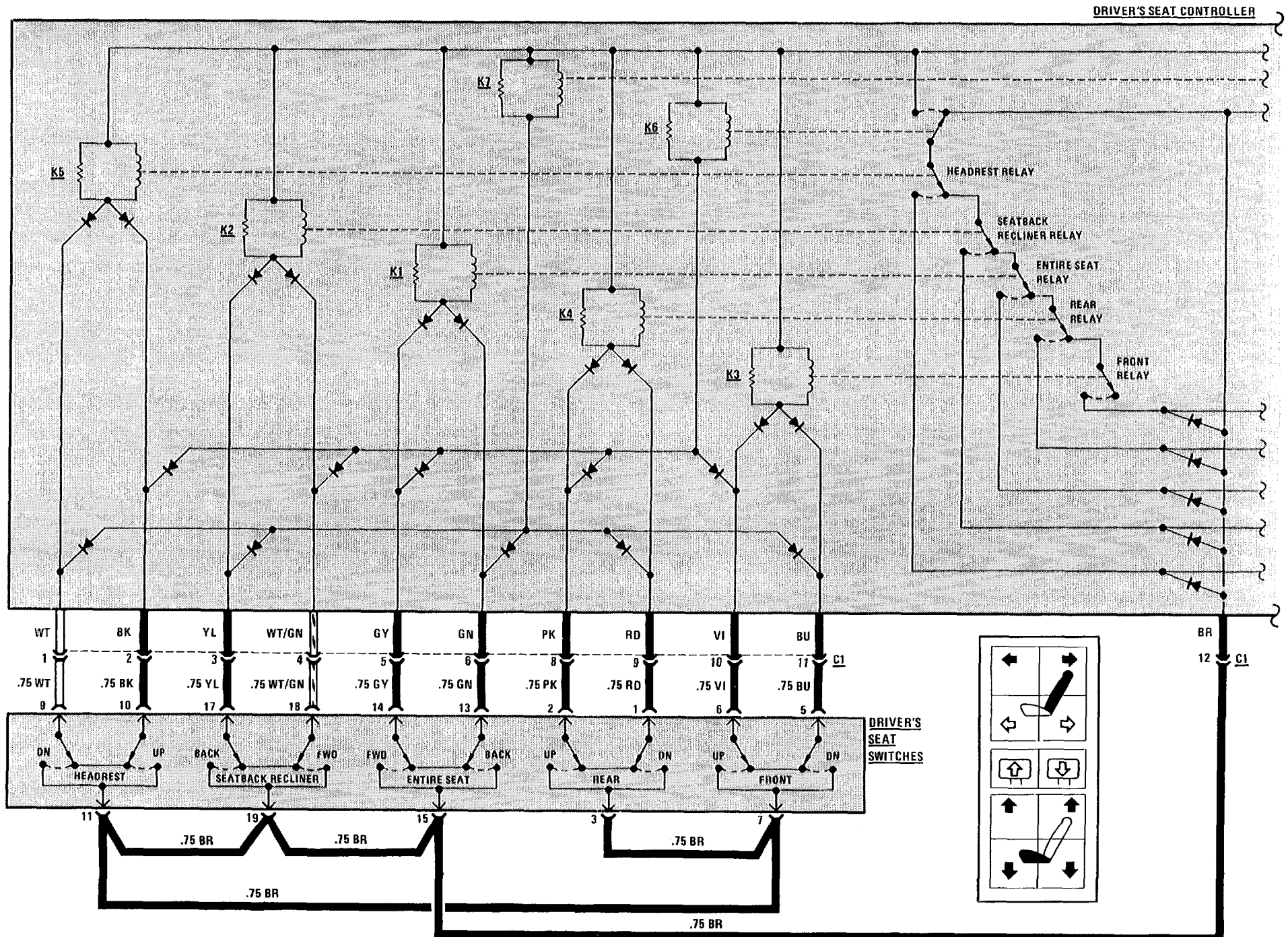


(For Component Locations See Page 215)



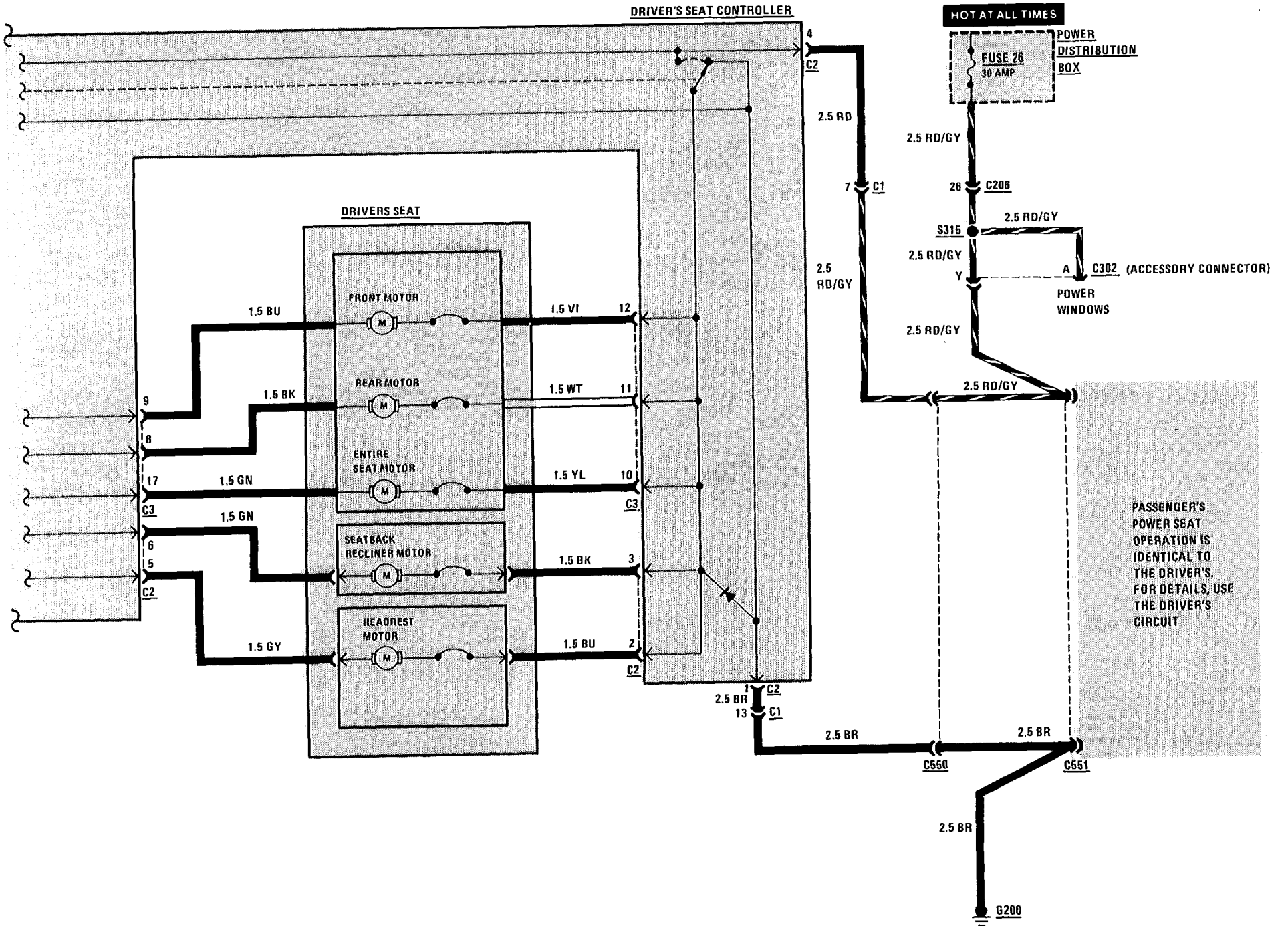
# 162 POWER SEATS

(For Component Locations See Page 216)





(For Component Locations See Page 216)



**ACTIVE CHECK CONTROL**

|                                 |  |       |
|---------------------------------|--|-------|
| Brake Switch .....              | Above brake pedal                                |       |
| Coolant Level Switch .....      | Top left side of coolant reservoir .....         | 209-1 |
| Oil Level Sensor .....          | Bottom of engine oil pan                         |       |
| Power Distribution Box .....    | Top front of left front wheel well .....         | 102-1 |
| Rear Lights Check Relay .....   | Under left side of rear seat .....               | 207-2 |
| Seatbelt Warning Timer .....    | On right side of body electrical connector ..... | 210-1 |
| Washer Fluid Level Switch ....  | Ahead of right front wheel well, in reservoir    |       |
| C101 (17 pin).....              | On rear of power distribution box .....          | 203-2 |
| C102 (13 pin).....              | In power distribution box                        |       |
| C205 (4 pin) .....              | Under LH dash, on body electrical bracket.....   | 207-1 |
| C206 (29 pin).....              | Under LH dash, on body electrical bracket.....   | 207-1 |
| G104 (Main Body Ground) ....    | On power distribution box bracket .....          | 201-1 |
| G200 (Front Interior Ground) .. | On dash frame, left of steering column.....      | 203-1 |
| G301 (Rear Interior Ground) ..  | Under left side of rear seat .....               | 207-2 |

**AUTOMATIC HEATER-AIR CONDITIONER**

|   |   |       |
|---|---|-------|
| A/C Control Unit .....                      | Left side of evaporator housing .....           | 215-2 |
| 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 |
| 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 |
| Coolant Temperature Sender/<br>Switch ..... | 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                 |       |
| Diagnostic Connector.....                   | Top middle of engine.....                       | 101-1 |
| Evaporator Temp. Switch.....                | On support stand for blower motor               |       |
| Footwell Solenoid Valve .....               | Behind center console                           |       |
| High Pressure Cut-Out Switch ..             | On receiver-dryer, below washer reservoir ..... | 209-2 |
| In-Car Temp. Sen./Rear Pass.<br>Area .....  | 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                 |       |
| Low Pressure Cutout Switch ..               | On receiver-dryer, below washer reservoir ..... | 209-2 |
| Power Distribution Box .....                | Top front of left front wheel well .....        | 102-1 |
| Rear Pass. Area Solenoid Valve              | Behind center console                           |       |
| Recirculating Air Solenoid Valve            | Left side of evaporator housing                 |       |
| RH Fresh Air Solenoid Valve ....            | Behind center console                           |       |

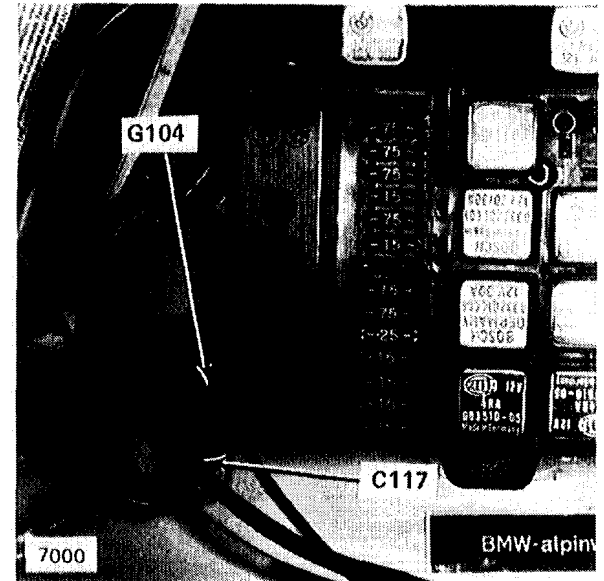


Figure 1 - Top Of Left Front Wheel Well

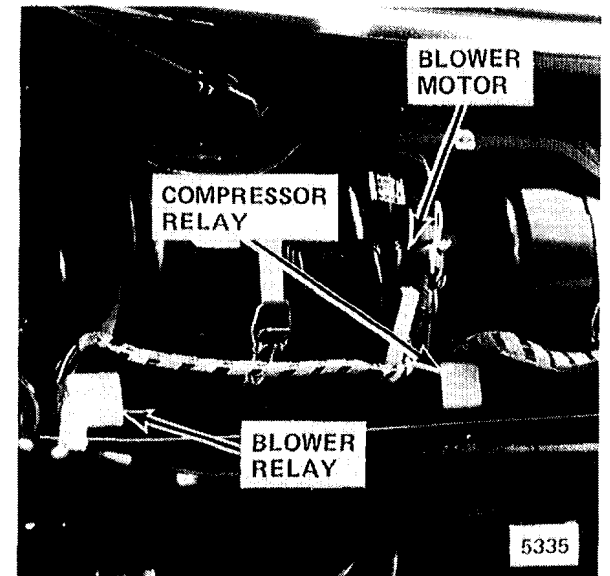


Figure 2 - Under Center Of Front Air Intake Cowl

## 202 COMPONENT LOCATIONS

(continued)

|                                |  |       |
|--------------------------------|--|-------|
| Vent Stage 1 Solenoid Valve .. | Behind center console                      |       |
| Vent Stage 2 Solenoid Valve .. | Behind center console                      |       |
| Water Valve Solenoid Valve ... | Right side of evaporator housing           |       |
| C101 (17 pin) .....            | On rear of power distribution box .....    | 203-2 |
| C105 (2 pin) .....             | Left of glove box hinge .....              | 202-1 |
| C106 (1 pin) .....             | On hose, above receiver-dryer .....        | 209-2 |
| C204 (6 pin) .....             | Behind center console .....                | 214-6 |
| C221 (12 pin) .....            | Below dash, right of console .....         | 214-6 |
| C243 (1 pin) .....             | Behind center console                      |       |
| C251 (1 pin) .....             | Behind center console                      |       |
| C252 (1 pin) .....             | Behind center console                      |       |
| C253 (1 pin) .....             | Behind center console                      |       |
| C254 (1 pin) .....             | Behind center console                      |       |
| G203 .....                     | On RH side of heater/air conditioning unit |       |

### AUXILIARY FAN/VACUUM PUMP

|                                       |  |       |
|---------------------------------------|--|-------|
| 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 Temperature Switch ..... | Lower right side of radiator (white terminals) ..... | 202-2 |
| Power Distribution Box .....          | Top front of left front wheel well .....             | 102-1 |
| Vacuum Pump .....                     | Right of left front shock tower                      |       |
| C102 (13 pin) .....                   | In power distribution box                            |       |
| C113 (3 pin) .....                    | On auxiliary fan shield                              |       |
| C116 (1 pin) .....                    | Near lower right side of radiator .....              | 155-1 |
| C117 (1 pin) .....                    | Behind left hand side of battery .....               | 201-1 |
| G104 (Main Body Ground) ....          | On power distribution box bracket .....              | 201-1 |
| G200 (Front Interior Ground)          | On dash frame, left of steering column .....         | 203-1 |

### BACKUP LIGHTS

|                                |   |       |
|--------------------------------|---|-------|
| 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 .....        | 102-1 |
| C206 (29 pin) .....            | Under LH dash, on body electrical bracket ..... | 207-1 |
| C301 (2 pin) .....             | In center console, ahead of shift lever         |       |
| G302 (Trunk Ground) .....      | In trunk, on rear panel center support .....    | 208-1 |

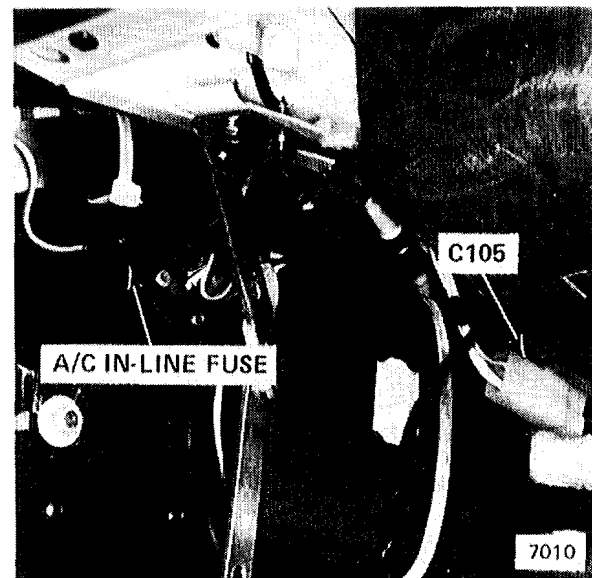


Figure 1 - Behind Dash, Left Of Glove Box

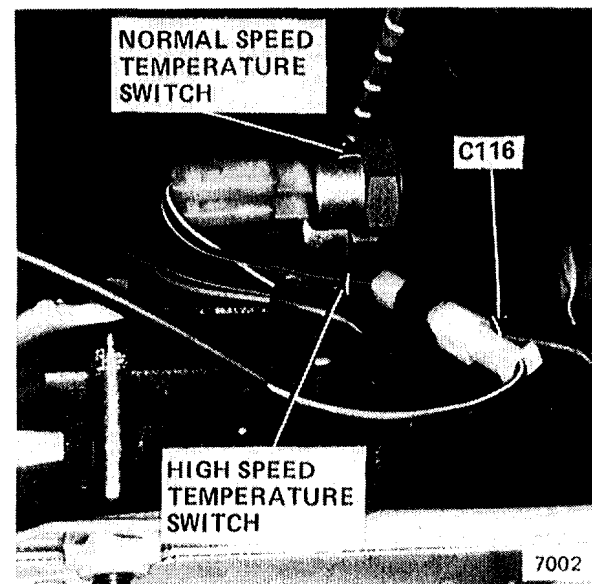


Figure 2 - Lower Right Side Of Radiator

**BRAKE LINING WARNING**

|                                 |   |       |
|---------------------------------|---|-------|
| Power Distribution Box .....    | Top front of left front wheel well .....        | 102-1 |
| C206 (29 pin) .....             | Under LH dash, on body electrical bracket ..... | 207-1 |
| G200 (Front Interior Ground) .. | On dash frame, left of steering column .....    | 203-1 |
| G301 (Rear Interior Ground) ..  | Under left side of rear seat .....              | 207-2 |

**CENTER CONSOLE LIGHTS**

|                                 |  |       |
|---------------------------------|--|-------|
| Power Distribution Box .....    | Top front of left front wheel well .....     | 102-1 |
| C204 (6 pin) .....              | Behind center console .....                  | 214-6 |
| C221 (12 pin) .....             | Below dash, right of console .....           | 214-6 |
| G200 (Front Interior Ground) .. | On dash frame, left of steering column ..... | 203-1 |
| G203 .....                      | On RH side of heater/air conditioning unit   |       |

**CENTRAL LOCKING**

|                                  |  |       |
|----------------------------------|--|-------|
| Central Locking Control Unit ..  | Under dash, above left front speaker grill .....   | 213-6 |
| Door Lock Motors .....           | In each door                                       |       |
| Gas Filler Lock Motor .....      | In trunk, behind left rear wheel well .....        | 214-5 |
| Ignition Switch .....            | Upper part of steering column                      |       |
| Lock Inhibit Switch .....        | In passenger's door at lock cylinder               |       |
| Power Distribution Box .....     | Top front of left front wheel well .....           | 102-1 |
| Trunk Lock Motor .....           | In trunk lid, near trunk lock                      |       |
| Unlock Inhibit Switch .....      | In driver's door at lock cylinder                  |       |
| C200 (10 pin) .....              | Under dash, on left side of steering column .....  | 203-1 |
| C206 (29 pin) .....              | Under LH dash, on body electrical bracket .....    | 207-1 |
| C302 (Accessory Connector)       | Under LH dash, on body electrical bracket .....    | 155-1 |
| C304 (7 pin) .....               | Ahead of left trunk hinge .....                    | 210-2 |
| C400 (7 pin) .....               | Under LH dash, near body electrical bracket .....  | 215-1 |
| C401 (7 pin) .....               | Under right side of dash, right of glove box ..... | 214-2 |
| C409 (3 pin) .....               | In right center pillar                             |       |
| C410 (3 pin) .....               | In left center pillar                              |       |
| C504 (2 pin) .....               | Under dash, above trunk release lever .....        | 213-6 |
| G200 (Front Interior Ground) ... | On dash frame, left of steering column .....       | 203-1 |
| G301 (Rear Interior Ground) ...  | Under left side of rear seat .....                 | 207-2 |

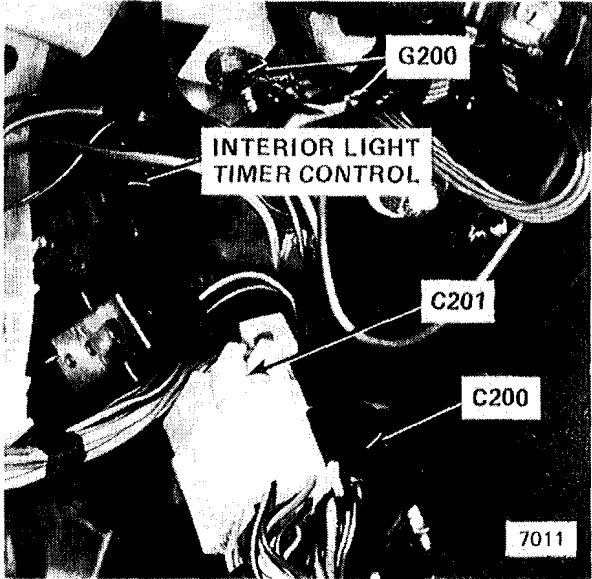


Figure 1 - Behind Dash, Left Of Steering Column

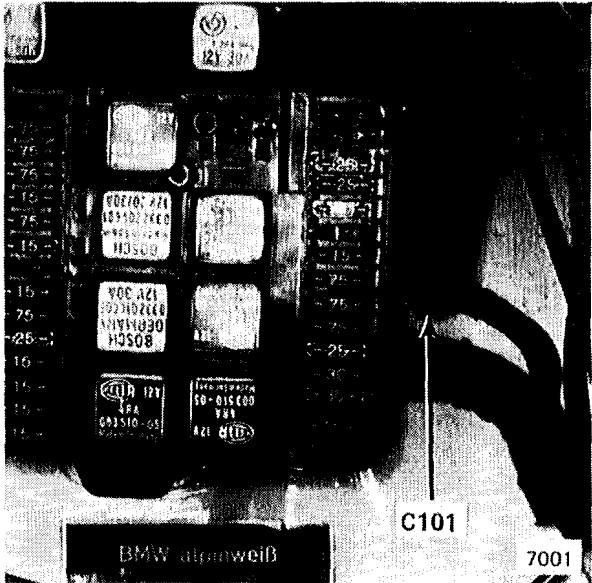


Figure 2 - Top Of Left Front Wheel Well

## 204 COMPONENT LOCATIONS

### CHARGING SYSTEM

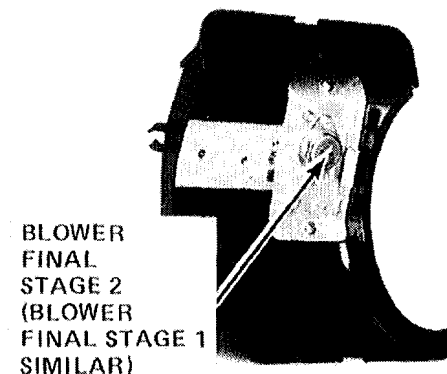
|                               |  |       |
|-------------------------------|--|-------|
| Diagnostic Connector.....     | Top middle of engine.....                        | 101-1 |
| Ignition Switch.....          | Upper part of steering column                    |       |
| Power Distribution Box.....   | Top front of left front wheel well.....          | 102-1 |
| Starter.....                  | Lower rear left side of engine                   |       |
| C101 (17 pin).....            | On rear of power distribution box.....           | 203-2 |
| C200 (10 pin).....            | Under dash, on left side of steering column..... | 203-1 |
| C206 (29 pin).....            | Under LH dash, on body electrical bracket.....   | 207-1 |
| C302 (Accessory Connector) .. | Under LH dash, on body electrical bracket.....   | 155-1 |
| G104 (Main Body Ground)....   | On power distribution box bracket.....           | 201-1 |

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

|                                 |  |       |
|---------------------------------|--|-------|
| Glove Box Light Switch.....     | Under right side of dash, above glove box      |       |
| Power Distribution Box.....     | Top front of left front wheel well.....        | 102-1 |
| C204 (6 pin).....               | Behind center console.....                     | 214-6 |
| C206 (29 pin).....              | Under LH dash, on body electrical bracket..... | 207-1 |
| C221(12 pin).....               | Below dash, right of console.....              | 214-6 |
| G200 (Front Interior Ground) .. | On dash frame, left of steering column.....    | 203-1 |
| G202.....                       | Center console                                 |       |
| G203.....                       | On RH side of heater/air conditioning unit     |       |

### FUEL CONTROL

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



5327

Figure 1 - Removed Left Blower Fan Housing Cover

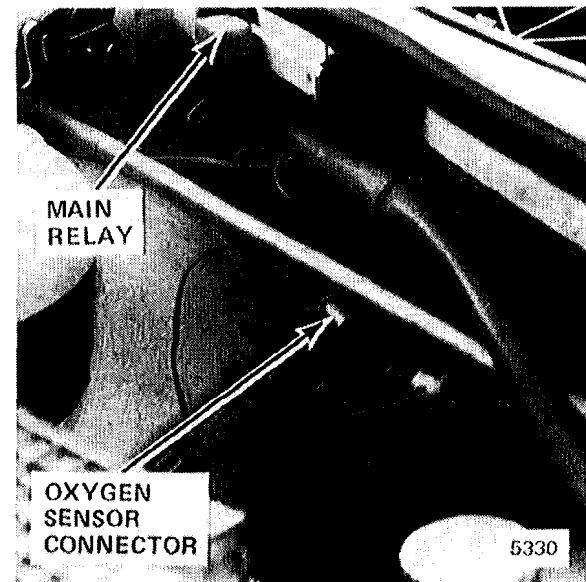


Figure 2 - Behind Right Front Shock Tower

## FUEL DELIVERY/EVAPORATOR CONTROL

|                                |  |       |
|--------------------------------|--|-------|
| Auxiliary Fuel Pump .....      | Top left side of fuel tank, under trunk.....       | 214-4 |
| Fuel Pump Relay .....          | On right side of power distribution box .....      | 102-1 |
| 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 front speaker .....                   | 211-1 |
| On-Board Computer .....        | Behind left front speaker .....                    | 208-2 |
| Power Distribution Box .....   | Top front of left front wheel well .....           | 102-1 |
| Purge Valve .....              | Right of power distribution box.....               | 205-1 |
| Purge Valve Relay.....         | On right side of power distribution box .....      | 102-1 |
| C101 (17 pin).....             | On rear of power distribution box .....            | 203-2 |
| C103 (6 pin).....              | Behind right front speaker .....                   | 211-1 |
| C200 (10 pin).....             | Under dash, on left side of steering column .....  | 203-1 |
| C206 (29 pin).....             | Under LH dash, on body electrical bracket.....     | 207-1 |
| C212 (1 pin).....              | Under left side of dash, near steering column..... | 215-1 |
| C235 (1 pin).....              | Under left side of dash, near steering column..... | 213-6 |
| C236 (2 pin).....              | Under left side of dash, near steering column      |       |
| G103 (Engine Ground).....      | Top rear of engine .....                           | 206-2 |
| G104 (Main Body Ground)....    | On power distribution box bracket .....            | 201-1 |
| G301 (Rear Interior Ground)... | Under left side of rear seat .....                 | 207-2 |
| G302 (Trunk Ground).....       | In trunk, on rear panel center support.....        | 208-1 |

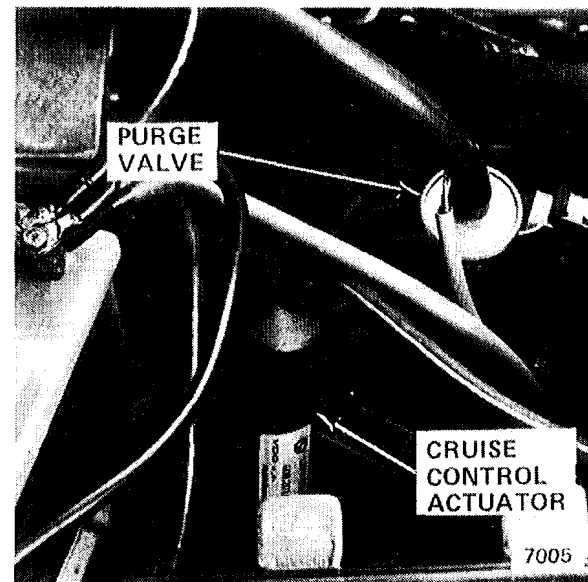


Figure 1 - Behind RH Side Of Battery

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

|                                   |   |       |
|-----------------------------------|---|-------|
| Combination Switch .....          | Upper left side of steering column .....          | 206-1 |
| Flasher .....                     | Upper left side of steering column .....          | 206-1 |
| Fog Lights/Interior Lights Switch | On dash, to right of steering column              |       |
| Ignition Switch.....              | Upper part of steering column                     |       |
| Power Distribution Box .....      | Top front of left front wheel well .....          | 102-1 |
| C102 (13 pin).....                | In power distribution box                         |       |
| C107 (2 pin).....                 | Taped to harness, left of battery .....           | 213-3 |
| C202 (13 pin).....                | Under dash, on left side of steering column ..... | 210-1 |
| C206 (29 pin).....                | Under LH dash, on body electrical bracket.....    | 207-1 |
| G104 (Main Body Ground)....       | On power distribution box bracket .....           | 201-1 |
| G200 (Front Interior Ground)..    | On dash frame, left of steering column.....       | 203-1 |
| G201 (Column Ground).....         | Upper left side of steering column .....          | 206-1 |

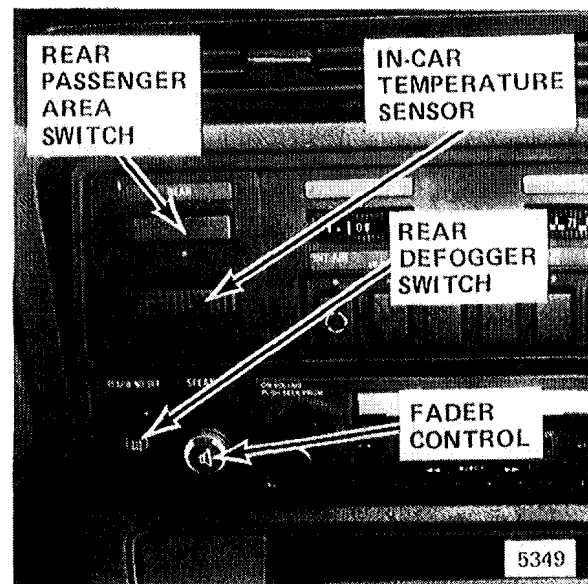


Figure 2 - Center Of Dash

**HORN/HEATED DOOR LOCK**

|                                 |   |       |
|---------------------------------|---|-------|
| Horn Brush/Slip Ring .....      | Under hub of steering wheel                       |       |
| Horn Switches .....             | Under hub of steering wheel                       |       |
| Lock Heater .....               | In left front door .....                          | 207-1 |
| Lock Heater Control Unit .....  | In left front door .....                          | 207-1 |
| Power Distribution Box .....    | Top front of left front wheel well .....          | 102-1 |
| C202 (13 pin) .....             | Under dash, on left side of steering column ..... | 210-1 |
| C206 (29 pin) .....             | Under LH dash, on body electrical bracket .....   | 207-1 |
| C400 (7 pin) .....              | Under LH dash, near body electrical bracket ..... | 215-1 |
| C503 (8 pin) .....              | In driver's door                                  |       |
| C504 (2 pin) .....              | Under dash, above trunk release lever .....       | 213-6 |
| C560 (2 pin) .....              | In driver's door                                  |       |
| G104 (Main Body Ground) ....    | On power distribution box bracket .....           | 201-1 |
| G200 (Front Interior Ground) .. | On dash frame, left of steering column .....      | 203-1 |
| G201 (Column Ground) .....      | Upper left side of steering column .....          | 206-1 |

**IDLE SPEED CONTROL**

|                                 |   |       |
|---------------------------------|---|-------|
| 0°C (32°F) 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 middle of engine .....                                      | 101-1 |
| 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                       |       |
| Motronic Control Unit .....     | Behind right front speaker .....                                | 211-1 |
| Power Distribution Box .....    | Top front of left front wheel well .....                        | 102-1 |
| Purge Valve Relay Diode .....   | In jumper harness between purge valve relay and throttle switch |       |
| Throttle Switch .....           | Top LH side of engine, below throttle body .....                | 213-2 |
| C101 (17 pin) .....             | On rear of power distribution box .....                         | 203-2 |
| C103 (6 pin) .....              | Behind right front speaker .....                                | 211-1 |
| C104 (2 pin) .....              | Behind right front speaker .....                                | 211-1 |
| C204 (6 pin) .....              | Behind center console .....                                     | 214-6 |
| C206 (29 pin) .....             | Under LH dash, on body electrical bracket .....                 | 207-1 |
| C221 (12 pin) .....             | Below dash, right of console .....                              | 214-6 |
| C301 (2 pin) .....              | In center console, ahead of shift lever                         |       |
| G103 (Engine Ground) .....      | Top rear of engine .....  | 206-2 |

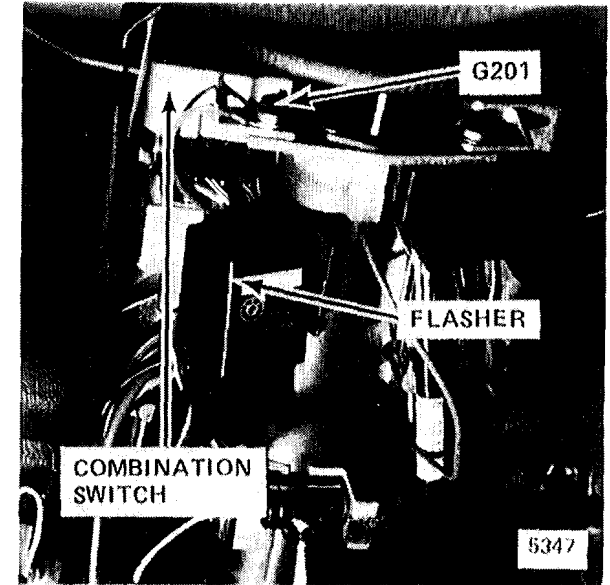


Figure 1 - Upper Underside Of Steering Column

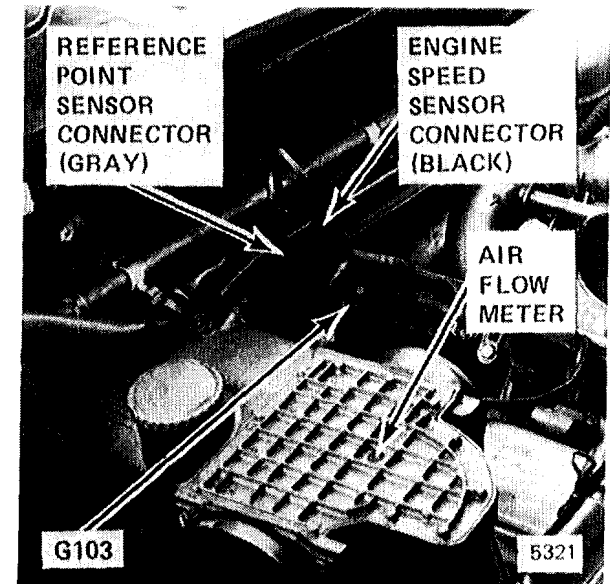


Figure 2 - Top Rear Of Engine



**IGNITION**

|                              |   |       |
|------------------------------|---|-------|
| Diagnostic Connector.....    | Top middle of engine.....                         | 101-1 |
| Ignition Coil .....          | On right fender, behind headlights                |       |
| Ignition Switch.....         | Upper part of steering column                     |       |
| Motronic Control Unit .....  | Behind right front speaker .....                  | 211-1 |
| Reference Point Sensor ..... | On transmission bell housing.....                 | 206-2 |
| TDC Sensor .....             | Above crankshaft vibration damper                 |       |
| C101 (17 pin).....           | On rear of power distribution box .....           | 203-2 |
| C109 (1 pin) .....           | Taped to harness, near ignition coil.....         |       |
| C200 (10 pin).....           | Under dash, on left side of steering column ..... | 203-1 |
| G103 (Engine Ground).....    | Top rear of engine .....                          | 206-2 |

**IGNITION KEY WARNING/SEATBELT WARNING**

|                              |   |       |
|------------------------------|---|-------|
| Ignition Key Switch.....     | In upper part of steering column                  |       |
| Power Distribution Box ..... | Top front of left front wheel well .....          | 102-1 |
| Seatbelt Switch .....        | In driver's seatbelt buckle                       |       |
| Seatbelt Warning Timer ..... | On right side of body electrical connector .....  | 210-1 |
| Warning Buzzer .....         | Upper left side of steering column .....          | 212-1 |
| C200 (10 pin).....           | Under dash, on left side of steering column ..... | 203-1 |
| C203 (2 pin) .....           | Upper left side of steering column                |       |
| C205 (4 pin) .....           | Under LH dash, on body electrical bracket.....    | 155-1 |
| C206 (29 pin).....           | Under LH dash, on body electrical bracket.....    | 207-1 |
| G200 (Front Interior Ground) | On dash frame, left of steering column.....       | 203-1 |

**INTERIOR LIGHTS**

|                                   |  |       |
|-----------------------------------|--|-------|
| Fog Lights/Interior Lights Switch | On dash, to right of steering column             |       |
| Interior Light Timer Control ...  | On right side of body electrical connector ..... | 203-1 |
| Lock Heater Control Unit .....    | In left front door .....                         | 207-1 |
| Power Distribution Box .....      | Top front of left front wheel well .....         | 102-1 |
| C206 (29 pin).....                | Under LH dash, on body electrical bracket.....   | 207-1 |
| C302 (Accessory Connector)        | Under LH dash, on body electrical bracket.....   | 155-1 |
| C303 (2 pin) .....                | In headliner, above LH dome light .....          | 214-3 |
| C503 (8 pin) .....                | In driver's door                                 |       |
| C504 (2 pin) .....                | Under dash, above trunk release lever .....      | 213-6 |
| G200 (Front Interior Ground)..    | On dash frame, left of steering column.....      | 203-1 |

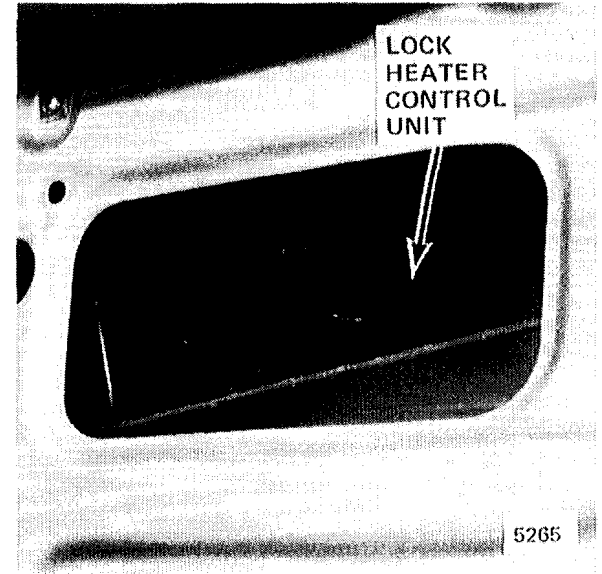


Figure 1 - Inside Driver's Door

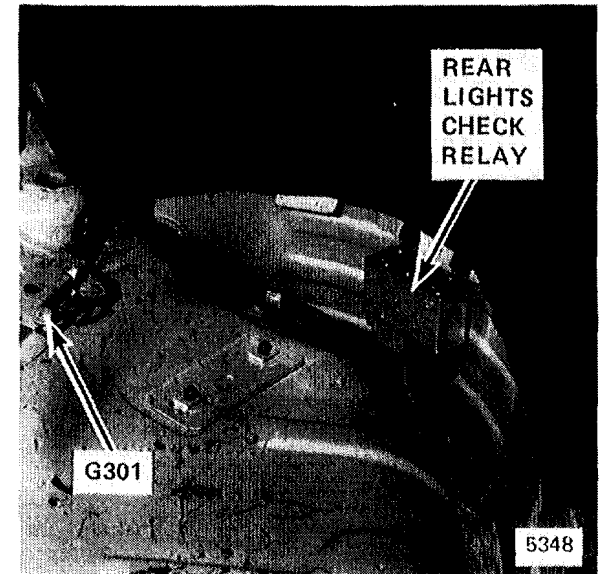


Figure 2 - Under Left Side Of Rear Seat

## 208 COMPONENT LOCATIONS

### LIGHTS: FRONT PARK/TAIL/UNDERHOOD

|                             |   |       |
|-----------------------------|---|-------|
| Power Distribution Box      | Top front of left front wheel well            | 102-1 |
| Rear Lights Check Relay     | Under left side of rear seat                  | 207-2 |
| Underhood Light Switch      | Under RH rear corner of hood, near latchplate |       |
| C102 (13 pin)               | In power distribution box                     |       |
| C110 (1 pin)                | Behind right headlights                       | 213-1 |
| C206 (29 pin)               | Under LH dash, on body electrical bracket     | 207-1 |
| G104 (Main Body Ground)     | On power distribution box bracket             | 201-1 |
| 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

|                                   |  |       |
|-----------------------------------|--|-------|
| Auto. Trans. Range Switch         | On left side of shift lever                  |       |
| Fog Lights/Interior Lights Switch | On dash, to right of steering column         |       |
| On-Board Computer                 | Behind left front speaker                    | 208-2 |
| Power Distribution Box            | Top front of left front wheel well           | 102-1 |
| C206 (29 pin)                     | Under LH dash, on body electrical bracket    | 207-1 |
| C255 (1 pin)                      | Under right side of dash, right of glove box | 214-2 |
| C301 (2 pin)                      | In center console, ahead of shift lever      |       |
| C305 (2 pin)                      | Near left tail light assembly                |       |
| C306 (2 pin)                      | Near right tail light assembly               |       |
| G200 (Front Interior Ground)      | On dash frame, left of steering column       | 203-1 |
| G202                              | Center console                               |       |
| G306                              | Top of right A pillar                        |       |

### LIGHTS: RH VISOR/DASH/TRANSMISSION RANGE

|                             |   |       |
|-----------------------------|---|-------|
| Power Distribution Box      | Top front of left front wheel well        | 102-1 |
| Rear Lights Check Relay     | Under left side of rear seat              | 207-2 |
| Trunk Light Switch          | In trunk lid, near trunk lock             |       |
| C206 (29 pin)               | Under LH dash, on body electrical bracket | 207-1 |
| C300 (1 pin)                | Ahead of left trunk hinge                 | 210-2 |
| C302 (Accessory Connector)  | Under LH dash, on body electrical bracket | 155-1 |
| C304 (7 pin)                | Ahead 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 |

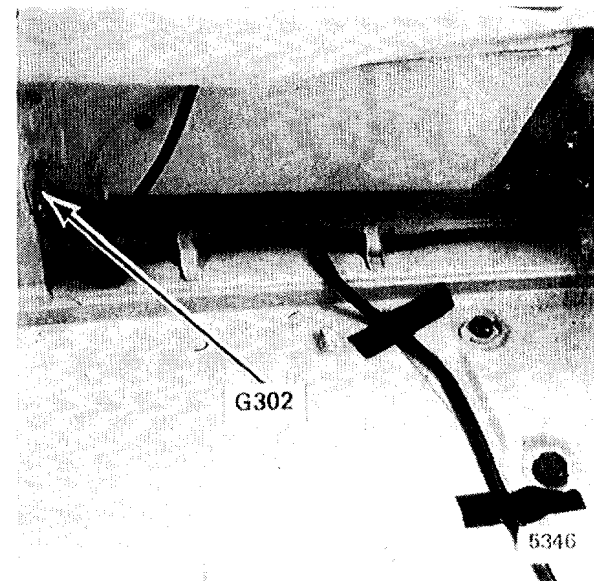


Figure 1 - Left Rear Left Side Of Trunk

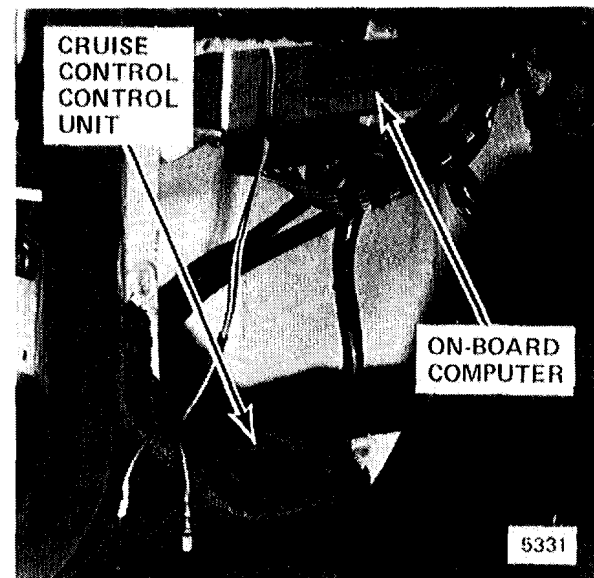


Figure 2 - Behind Left Front Speaker

**LIGHTS: TURN/HAZARD WARNING**

|                                |   |       |
|--------------------------------|---|-------|
| Combination Switch .....       | Upper left side of steering column .....          | 206-1 |
| Flasher.....                   | Upper left side of steering column .....          | 206-1 |
| Ignition Switch.....           | Upper part of steering column                     |       |
| Power Distribution Box .....   | Top front of left front wheel well .....          | 102-1 |
| C102 (13 pin).....             | In power distribution box                         |       |
| C200 (10 pin).....             | Under dash, on left side of steering column ..... | 203-1 |
| C202 (13 pin).....             | Under dash, on left side of steering column ..... | 210-1 |
| C206 (29 pin).....             | Under LH dash, on body electrical bracket.....    | 207-1 |
| G104 (Main Body Ground)....    | On power distribution box bracket .....           | 201-1 |
| G200 (Front Interior Ground).. | On dash frame, left of steering column.....       | 203-1 |
| 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                     |       |
| 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 front speaker .....                     | 208-2 |
| Outside Temperature Sensor...  | Under front bumper, left side                       |       |
| Power Distribution Box .....   | Top front of left front wheel well .....            | 102-1 |
| C103 (6 pin) .....             | Behind right front speaker .....                    | 211-1 |
| C200 (10 pin).....             | Under dash, on left side of steering column .....   | 203-1 |
| C206 (29 pin).....             | Under LH dash, on body electrical bracket.....      | 207-1 |
| C212 (1 pin) .....             | Under left side of dash, near steering column ..... | 215-1 |
| C235 (1 pin) .....             | Under left side of dash, near steering column ..... | 213-6 |
| C236 (2 pin) .....             | Under left side of dash, near steering column ..... |       |
| C237 (3 pin) .....             | Behind brake fluid reservoir .....                  | 209-1 |
| C239 (4 pin) .....             | Behind instrument cluster                           |       |
| C240 (1 pin) .....             | Behind instrument cluster                           |       |
| C242 (2 pin) .....             | Above left front speaker grill                      |       |
| C302 (Accessory Connector) ..  | Under LH dash, on body electrical bracket.....      | 155-1 |
| G103 (Engine Ground).....      | Top rear of engine .....                            | 206-2 |
| G104 (Main Body Ground)....    | On power distribution box bracket .....             | 201-1 |
| G200 (Front Interior Ground).. | On dash frame, left of steering column.....         | 203-1 |

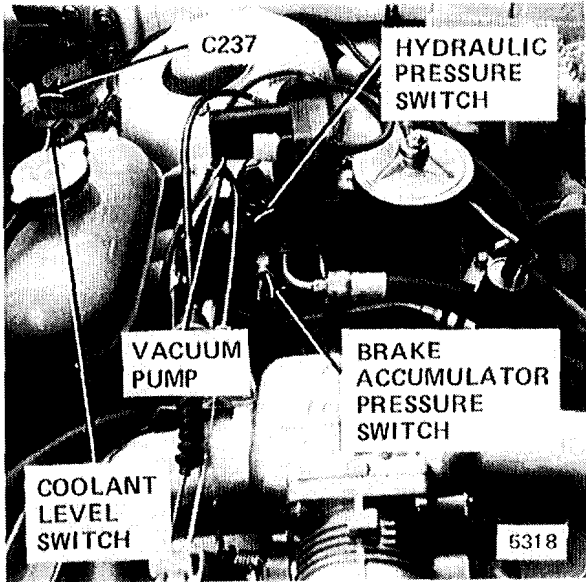


Figure 1 - Left Rear Of Engine Compartment

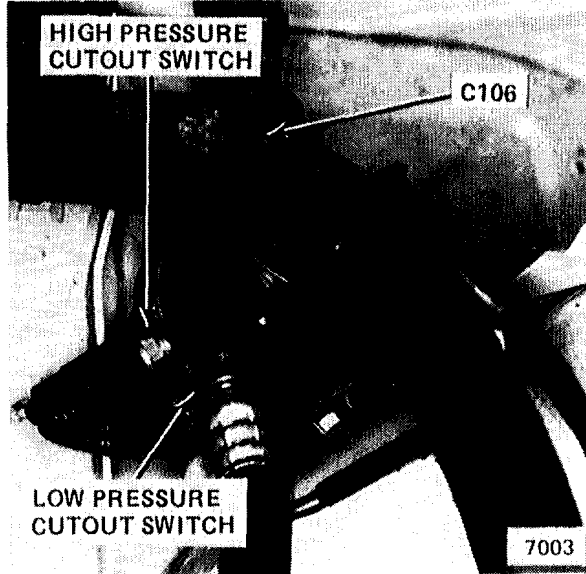


Figure 2 - Behind Right Headlights

## 210 COMPONENT LOCATIONS

### POWER DISTRIBUTION

|                                 |   |       |
|---------------------------------|---|-------|
| Diagnostic Connector .....      | Top middle of engine .....                        | 101-1 |
| Ignition Switch .....           | Upper part of steering column.                    |       |
| Power Distribution Box .....    | Top front of left front wheel well .....          | 102-1 |
| Starter .....                   | Lower rear left side of engine                    |       |
| C200 (10 pin) .....             | Under dash, on left side of steering column ..... | 203-1 |
| C206 (29 pin) .....             | Under LH dash, on body electrical bracket .....   | 207-1 |
| C221 (12 pin) .....             | Below dash, right of console .....                | 214-6 |
| C302 (Accessory Connector) ..   | Under LH dash, on body electrical bracket .....   | 155-1 |
| G104 (Main Body Ground) ....    | On power distribution box bracket .....           | 201-1 |
| G200 (Front Interior Ground) .. | On dash frame, left of steering column .....      | 203-1 |

### POWER MIRRORS

|                                 |  |       |
|---------------------------------|--|-------|
| Power Distribution Box .....    | Top front of left front wheel well .....           | 102-1 |
| C206 (29 pin) .....             | Under LH dash, on body electrical bracket .....    | 207-1 |
| C501 (5 pin) .....              | Under dash, left of steering column .....          | 155-1 |
| C502 (5 pin) .....              | Under right side of dash, right of glove box ..... | 214-2 |
| C504 (2 pin) .....              | Under dash, above trunk release lever .....        | 213-6 |
| G200 (Front Interior Ground) .. | On dash frame, left of steering column .....       | 203-1 |

### POWER SEATS (See Page 216)

### POWER WINDOWS

|                                 |  |       |
|---------------------------------|--|-------|
| Power Distribution Box .....    | Top front of left front wheel well .....           | 102-1 |
| Power Window Circuit Breaker    | On LH under dash cover .....                       | 210-1 |
| Power Window Relay .....        | Under LH dash, above trunk release lever .....     | 215-1 |
| Window Motors .....             | In each door                                       |       |
| C206 (29 pin) .....             | Under LH dash, on body electrical bracket .....    | 207-1 |
| C302 (Accessory Connector) ..   | Under LH dash, on body electrical bracket .....    | 155-1 |
| C402 (2 pin) .....              | In left center pillar                              |       |
| C403 (2 pin) .....              | In right center pillar                             |       |
| C404 (1 pin) .....              | In left center pillar                              |       |
| C405 (1 pin) .....              | In right center pillar                             |       |
| C406 (3 pin) .....              | Behind center console                              |       |
| C407 (2 pin) .....              | Under right side of dash, right of glove box. .... | 214-2 |
| C408 (2 pin) .....              | To left of body electrical bracket .....           | 155-1 |
| G200 (Front Interior Ground) .. | On dash frame, left of steering column .....       | 203-1 |

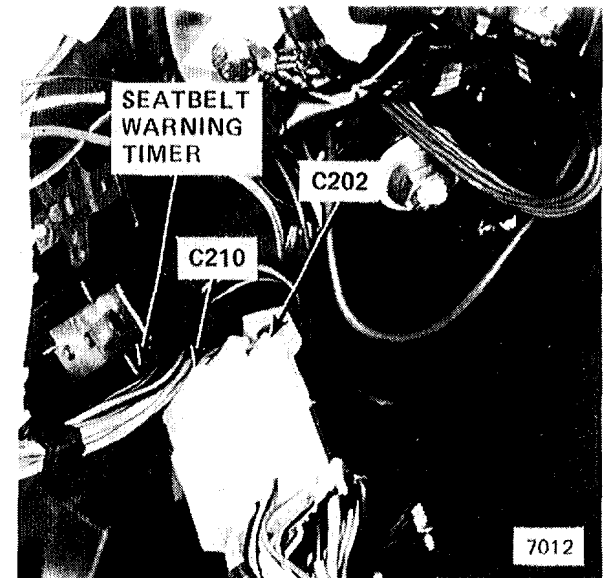


Figure 1 - Behind Dash, Left Of Steering Column

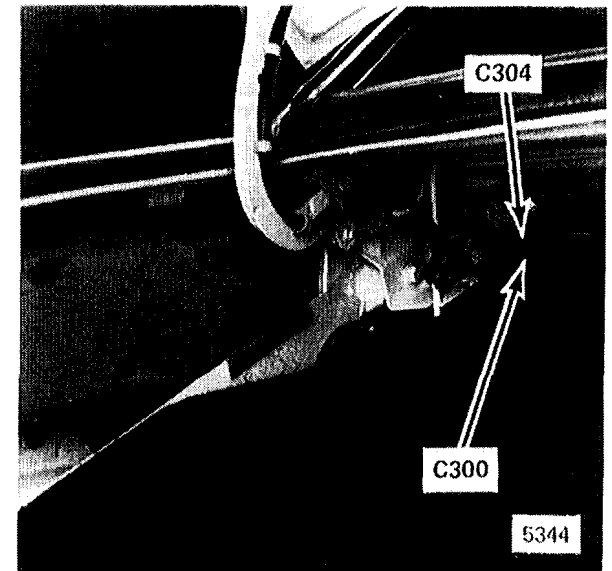


Figure 2 - Left Trunk Hinge

**RADIO/POWER ANTENNA**

|                                  |   |       |
|----------------------------------|---|-------|
| Power Distribution Box .....     | Top front of left front wheel well .....        | 102-1 |
| C206 (29 pin) .....              | Under LH dash, on body electrical bracket ..... | 207-1 |
| C215 (2 pin) .....               | Behind radio                                    |       |
| C216 (2 pin) .....               | Behind radio                                    |       |
| C217 (2 pin) .....               | Behind radio                                    |       |
| C218 (2 pin) .....               | Behind radio                                    |       |
| C302 (Accessory Connector) ...   | Under LH dash, on body electrical bracket ..... | 155-1 |
| G200 (Front Interior Ground) ... | On dash frame, left of steering column .....    | 203-1 |

**REAR DEFOGGER/SUNROOF**

|                                |   |       |
|--------------------------------|---|-------|
| Power Distribution Box .....   | Top front of left front wheel well .....        | 102-1 |
| Sunroof Drive Motor .....      | Above headliner, above rear view mirror         |       |
| Sunroof Limit Switch .....     | Above headliner, above rear view mirror         |       |
| Sunroof Motor Relay .....      | Above headliner, above rear view mirror         |       |
| C204 (6 pin) .....             | Behind center console .....                     | 214-6 |
| C206 (29 pin) .....            | Under LH dash, on body electrical bracket ..... | 207-1 |
| C221 (12 pin) .....            | Below dash, right of console .....              | 214-6 |
| C302 (Accessory Connector) ... | Under LH dash, on body electrical bracket ..... | 155-1 |
| G203 .....                     | On RH side of heater/air conditioning unit      |       |
| G305 .....                     | In RH C pillar                                  |       |
| G600 .....                     | Above headliner, above rear view mirror         |       |

**SERVICE INTERVAL INDICATOR**

|   |  |       |
|---|--|-------|
| Coolant Temperature Sender/<br>Switch ..... | Front of engine, on thermostat housing ..... | 211-2 |
| Diagnostic Connector .....                  | Top middle of engine .....                   | 101-1 |
| Motronic Control Unit .....                 | Behind right front speaker .....             | 211-1 |
| Power Distribution Box .....                | Top front of left front wheel well .....     | 102-1 |
| C101 (17 pin) .....                         | On rear of power distribution box .....      | 203-2 |
| C103 (6 pin) .....                          | Behind right front speaker .....             | 211-1 |
| G200 (Front Interior Ground) ...            | On dash frame, left of steering column ..... | 203-1 |

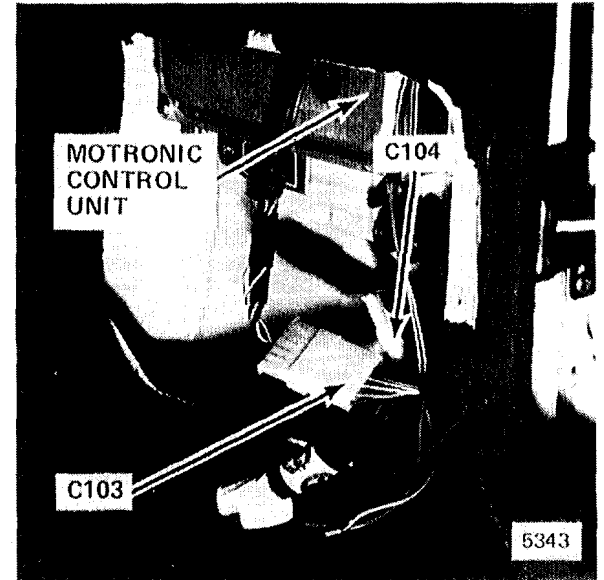


Figure 1 - Behind Right Front Speaker

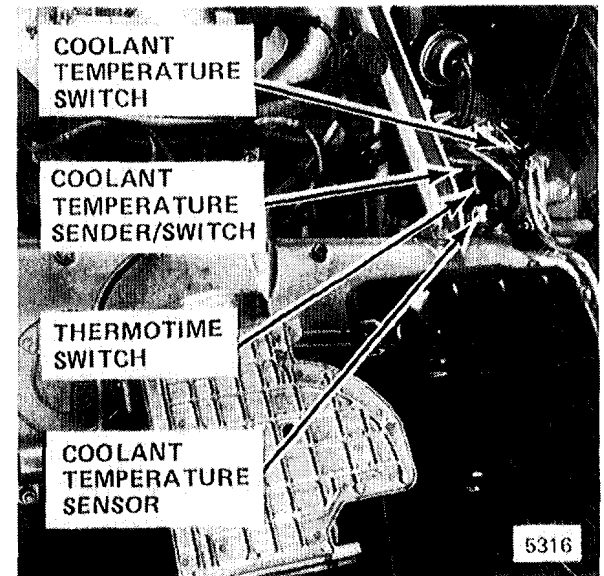


Figure 2 - Top Front Of Engine

## SPEEDOMETER/GAUGES/WARNING INDICATORS

|                                       |   |       |
|---------------------------------------|---|-------|
| Brake Accum. Pres. Switch             | Right of left front shock tower             | 209-1 |
| Brake Fluid Level Switch              | To left of engine, on brake fluid reservoir |       |
| Coolant Temperature Sender/<br>Switch | Front of engine, on thermostat housing      | 211-2 |
| Diagnostic Connector                  | Top middle of engine                        | 101-1 |
| Fuel Tank Sender                      | Top left side of fuel tank, under trunk     | 214-4 |
| Hydraulic Pressure Switch             | Right of left front shock tower             | 209-1 |
| Ignition Switch                       | Upper part of steering column               |       |
| Motronic Control Unit                 | Behind right front 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          | 102-1 |
| Speedometer Sender                    | In rear of differential                     |       |
| C101 (17 pin)                         | On rear of power distribution box           | 203-2 |
| C103 (6 pin)                          | Behind right front speaker                  | 211-1 |
| C200 (10 pin)                         | Under dash, on left side of steering column | 203-1 |
| C202 (13 pin)                         | Under dash, on left side of steering column | 210-1 |
| G200 (Front Interior Ground)          | On dash frame, left of steering column      | 203-1 |
| 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 middle of engine                        | 101-1 |
| Ignition Switch              | Upper part of steering column               |       |
| Power Distribution Box       | Top front of left front wheel well          | 102-1 |
| Start Relay                  | Under LH dash, on body electrical bracket   |       |
| Starter                      | Lower rear left side of engine              |       |
| Thermo Time Switch           | Front of engine, top of thermostat housing  | 211-2 |
| C101 (17 pin)                | On rear of power distribution box           | 203-2 |
| C200 (10 pin)                | Under dash, on left side of steering column | 203-1 |
| G104 (Main Body Ground)      | On power distribution box bracket           | 201-1 |
| G200 (Front Interior Ground) | On dash frame, left of steering column      | 203-1 |

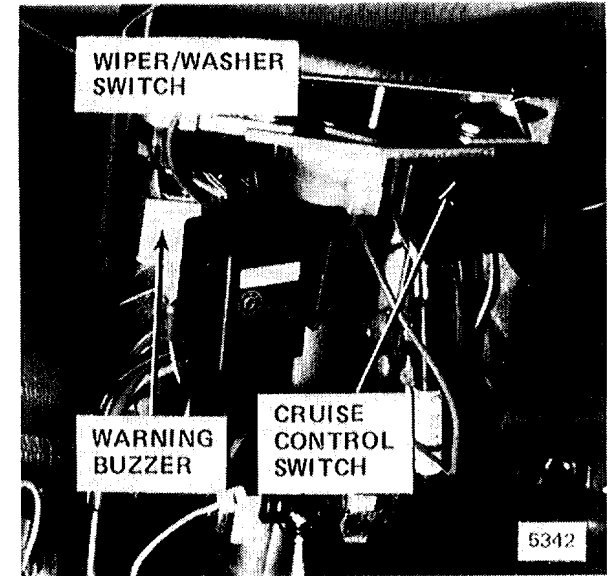


Figure 1 - Upper Underside Of Steering Column

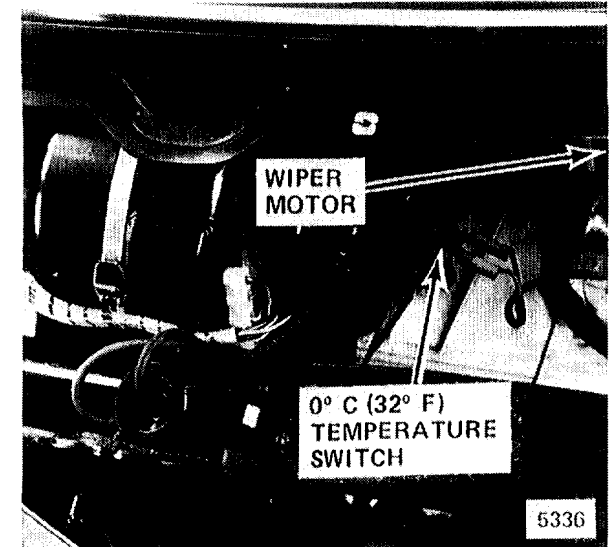


Figure 2 - Under Center Of Fresh Air Intake Cowl

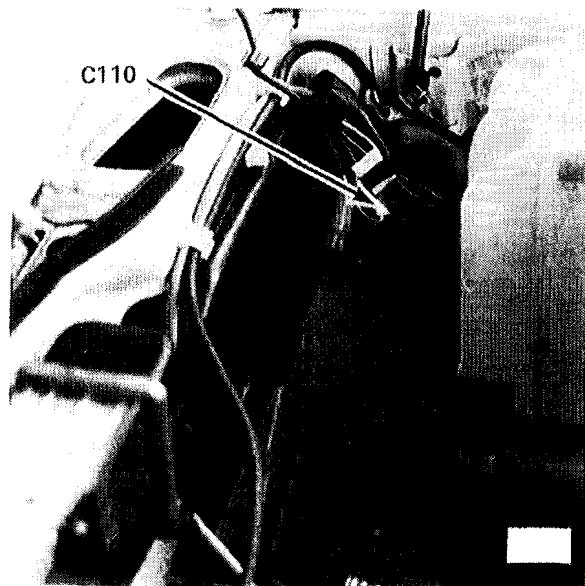


Figure 1 - Behind Right Headlights

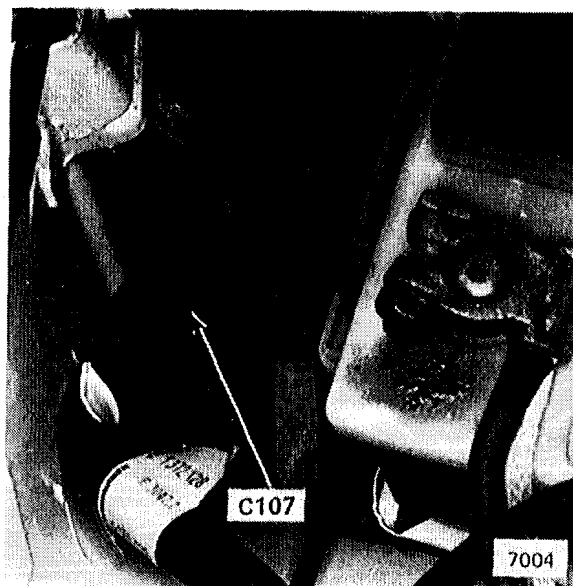


Figure 3 - Left Of Battery



Figure 5 - Under Center Of  
Fresh Air Intake Cowl

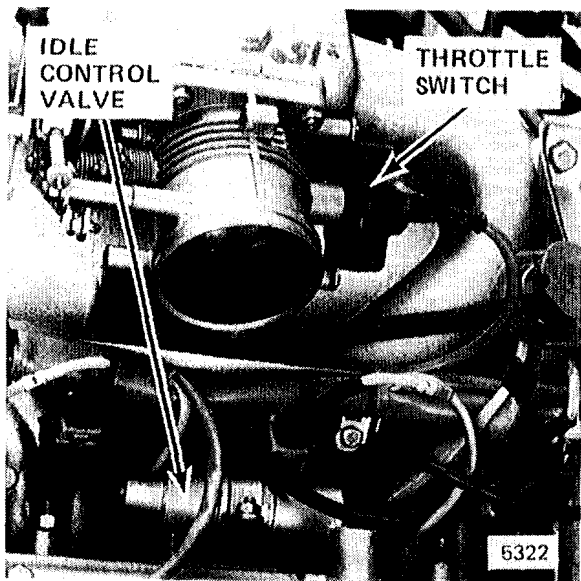


Figure 2 - Top Center Of Engine

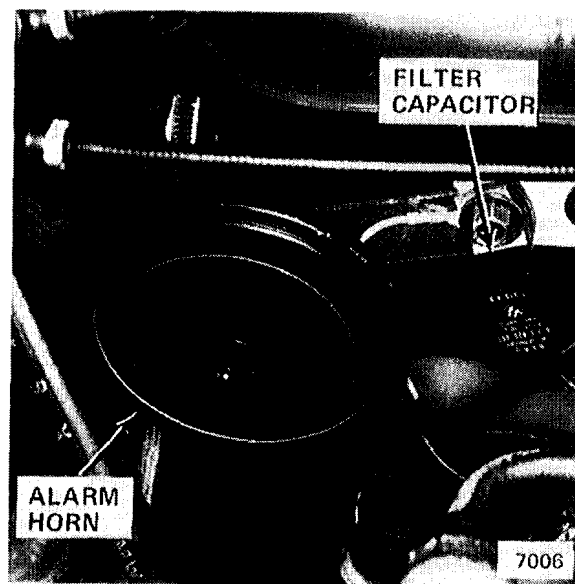


Figure 4 - Ahead Of Coolant  
Reservoir



Figure 6 - Behind Dash, Above  
Left Front Speaker

## 214 COMPONENT LOCATIONS

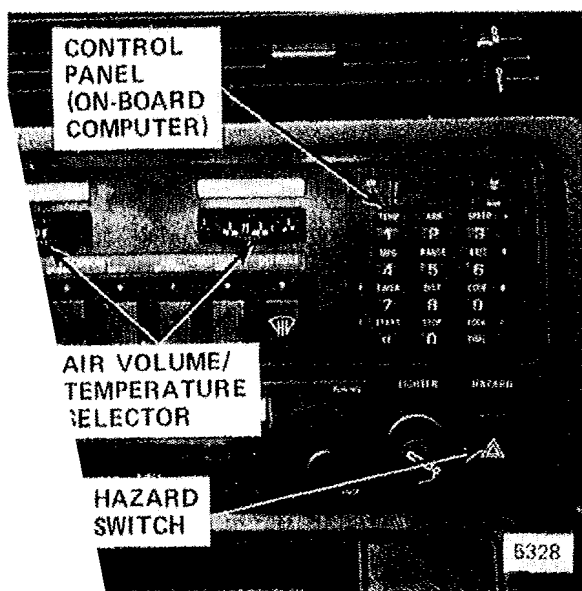


Figure 1- Center Of Dash

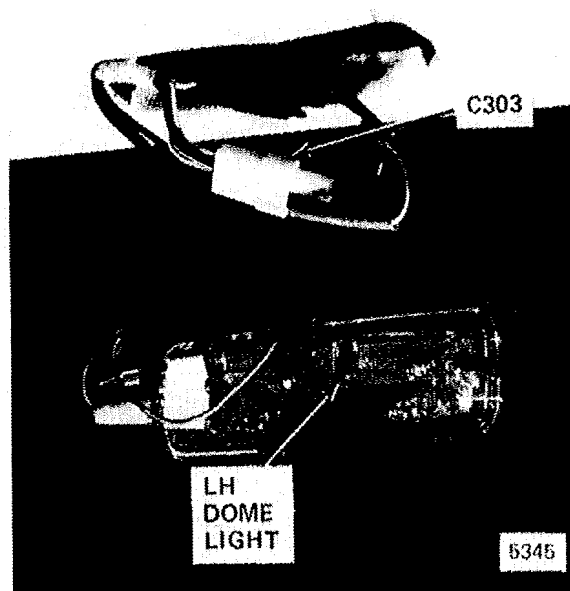


Figure 3 - Header, Above Left B Pillar

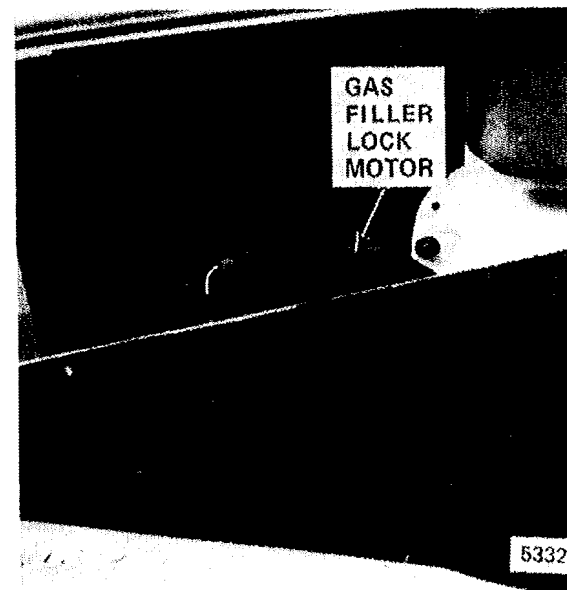


Figure 5 - Behind Left Rear Wheel Well



Figure 4 - Behind Dash, Right Of Glove Box

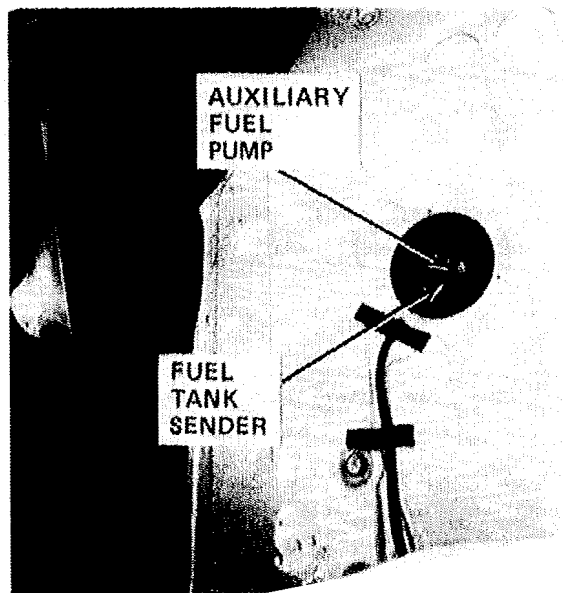


Figure 6

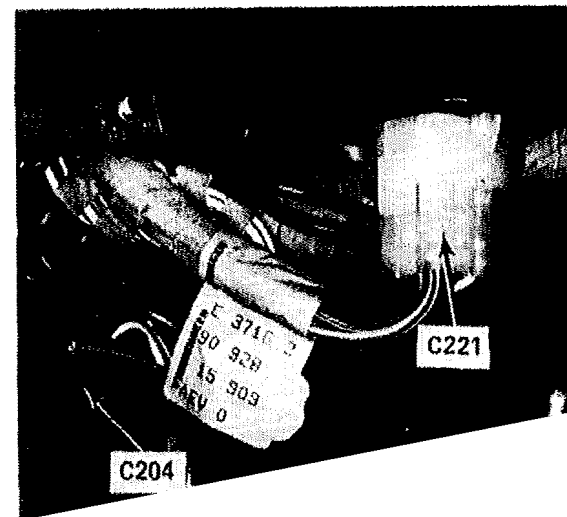


Figure 7



**STOPLIGHTS/CRUISE CONTROL**

|                                   |   |       |
|-----------------------------------|---|-------|
| Auto. Trans. Range Switch . . . . | On left side of 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 front speaker . . . . .                   | 208-2 |
| Power Distribution Box . . . . .  | Top front of left front wheel well . . . . .          | 102-1 |
| Rear Lights Check Relay . . . . . | Under left side of rear seat . . . . .                | 207-2 |
| C206 (29 pin) . . . . .           | Under LH dash, on body electrical bracket . . . . .   | 207-1 |
| C208 (2 pin) . . . . .            | Above accelerator pedal                               |       |
| C209 (7 pin) . . . . .            | Under dash, above left front speaker                  |       |
| C210 (4 pin) . . . . .            | Under dash, on left side of steering column . . . . . | 210-1 |
| C211 (1 pin) . . . . .            | In gear selector console                              |       |
| C301 (2 pin) . . . . .            | In center console, ahead of shift lever               |       |
| C302 (Accessory Connector) . .    | Under LH dash, on body electrical bracket . . . . .   | 155-1 |
| G200 (Front Interior Ground) . .  | On dash frame, left of steering column . . . . .      | 203-1 |
| G301 (Rear Interior Ground) . .   | Under left side of rear seat . . . . .                | 207-2 |
| G302 (Trunk Ground) . . . . .     | In trunk, on rear panel center support . . . . .      | 208-1 |

**WINDSHIELD WASHER JET HEATERS**

|                                  |   |       |
|----------------------------------|---|-------|
| Power Distribution Box . . . . . | Top front of left front wheel well . . . . .        | 102-1 |
| Washer Jet Heaters . . . . .     | On washer jet nozzles                               |       |
| Wiper Motor . . . . .            | Under left side fresh air intake cowl . . . . .     | 212-2 |
| C120 (2 pin) . . . . .           | Near wiper motor                                    |       |
| C206 (29 pin) . . . . .          | Under LH dash, on body electrical bracket . . . . . | 207-1 |
| C504 (2 pin) . . . . .           | Under dash, above trunk release lever . . . . .     | 213-6 |
| G200 (Front Interior Ground) . . | On dash frame, left of steering column . . . . .    | 203-1 |

**WIPER/WASHER**

|                                  |   |       |
|----------------------------------|---|-------|
| Power Distribution Box . . . . . | Top front of left front wheel well . . . . .          | 102-1 |
| Washer Pump . . . . .            | Ahead of right front wheel well, in reservoir         |       |
| Wiper Motor . . . . .            | Under left side fresh air intake cowl . . . . .       | 212-2 |
| C102 (13 pin) . . . . .          | In power distribution box                             |       |
| C201 (6 pin) . . . . .           | Under dash, on left side of steering column . . . . . | 203-1 |
| G200 (Front Interior Ground) . . | On dash frame, left of steering column . . . . .      | 203-1 |
| G201 (Column Ground) . . . . .   | Upper left side of steering column . . . . .          | 206-1 |

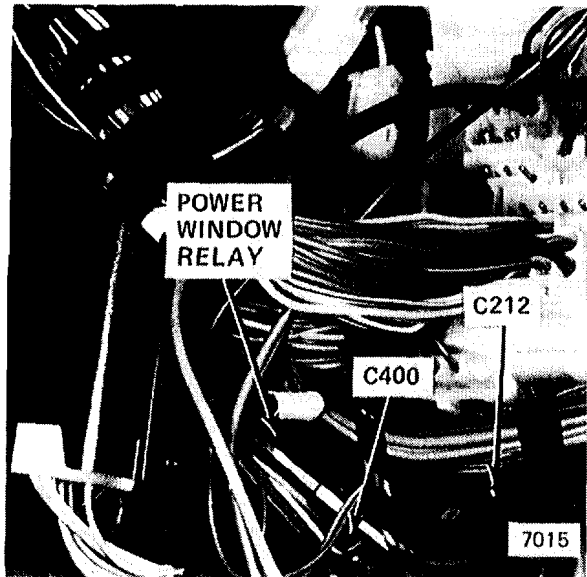


Figure 1 - Behind Dash Above Left Front Speaker

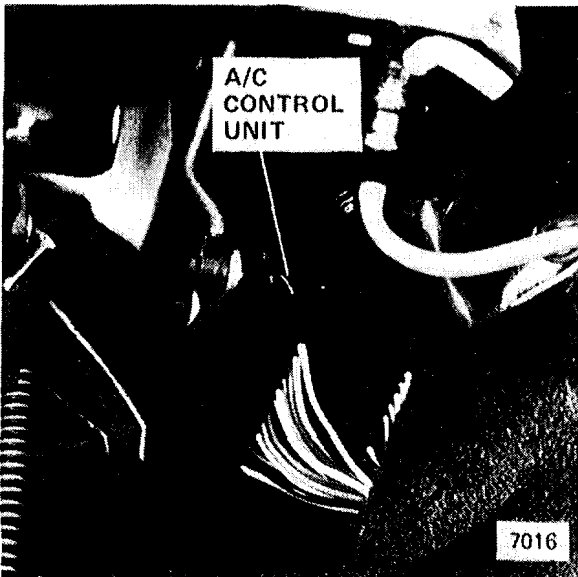


Figure 2 - Behind Left Side Of Console

### POWER SEATS

|  |  |       |
|--|--|-------|
| Driver's Seat Controller . . . . .     | Under driver's seat, on frame                      |       |
| Passenger's Seat Controller . . . . .  | Under passenger's seat, on frame                   |       |
| C206 (29 pin). . . . .                 | Under LH dash, on body electrical bracket. . . . . | 207-1 |
| C302 (Accessory Connector). . . . .    | Under LH dash, on body electrical bracket. . . . . | 155-1 |
| C550 (2 Pin). . . . .                  | Under center console                               |       |
| C551 (2 Pin). . . . .                  | Under center console                               |       |
| G200 (Front Interior Ground) . . . . . | On dash frame, left of steering column. . . . .    | 203-1 |