1986 BMW 325 Electrical Troubleshooting Manual

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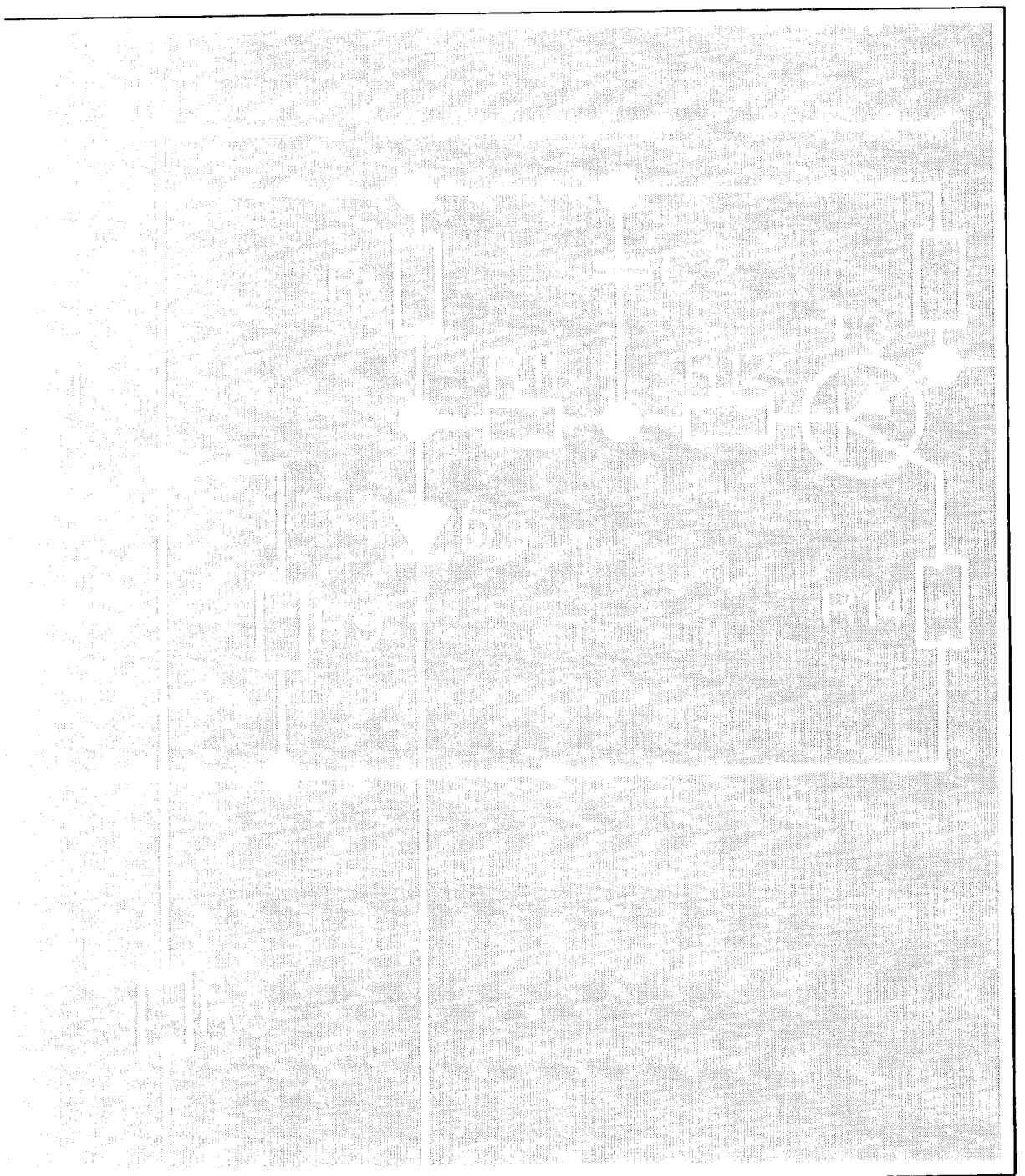
BMW of North America, Inc.
Montvale, New Jersey



1986
BMW 325e
Electrical
Troubleshooting
Manual

CONTENTS

Index — Alphabetical Listing of Electrical Circuits (325)

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.

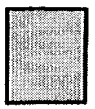
WIRE SIZE CONVERSION CHART

METRIC (CROSSECTIONAL AREA IN MM²)	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

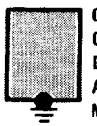
WIRE INSULATION

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

4 SYMBOLS

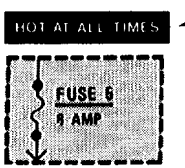


ENTIRE COMPONENT SHOWN

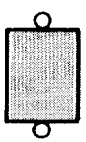


COMPONENT CASE IS DIRECTLY ATTACHED TO METAL PART OF CAR (GROUNDED)

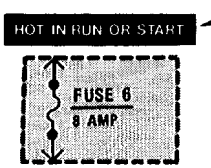
PART OF A COMPONENT SHOWN



INDICATES THAT FUSE 5 IS ALWAYS SUPPLIED WITH POWER

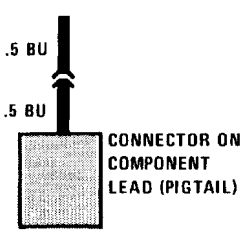


COMPONENT WITH SCREW TERMINALS

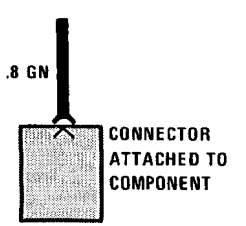


INDICATES THAT FUSE 6 IS SUPPLIED WITH POWER WITH THE IGNITION SWITCH IN THE RUN OR START POSITIONS

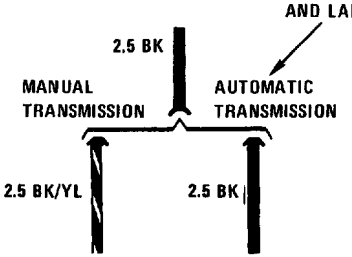
SOLID STATE (INCLUDES ONLY ELECTRONIC PARTS)



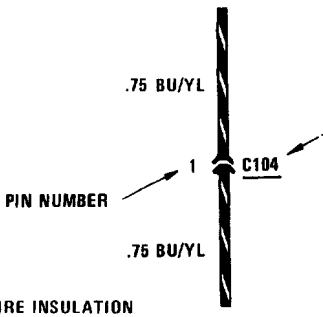
CONNECTOR ON COMPONENT LEAD (PIGTAIL)



CONNECTOR ATTACHED TO COMPONENT

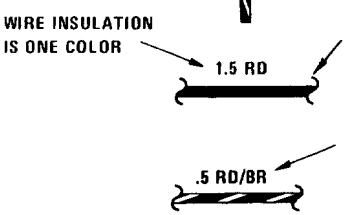


WIRE CHOICES FOR OPTIONS ARE SHOWN AND LABELED



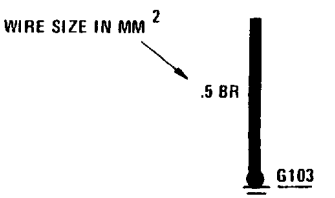
CONNECTOR REFERENCE NUMBER FOR COMPONENT LOCATION CHART

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



A WAVY LINE MEANS A WIRE IS CONTINUED

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

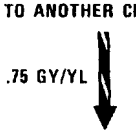


WIRE IS ATTACHED TO METAL PART OF CAR (GROUNDED) GROUND IS NUMBERED FOR REFERENCE ON COMPONENT LOCATION CHART

OTHER CIRCUITS THAT SHARE A GROUND ARE SHOWN IN GROUND DISTRIBUTION

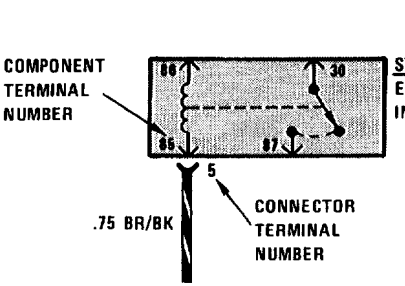
DIODE
CURRENT CAN FLOW ONLY IN THE DIRECTION OF THE ARROW

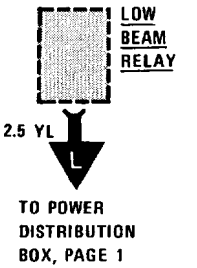
CIRCUIT REFERENCE – A WIRE WHICH CONNECTS TO ANOTHER CIRCUIT

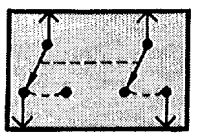


ACTIVE CHECK CONTROL

ONE POLE,
TWO POSITION
SWITCH



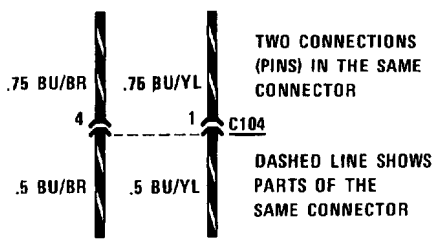




SWITCHES THAT
MOVE TOGETHER

DASHED LINE SHOWS
A MECHANICAL
CONNECTION
BETWEEN SWITCHES

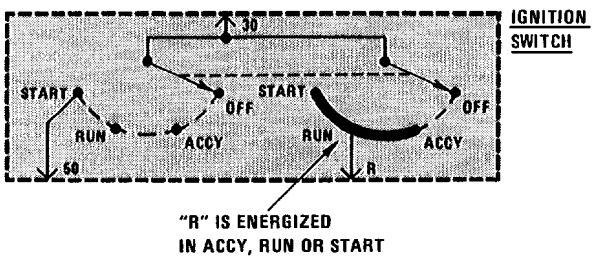
CURRENT PATH
IS CONTINUED
AS LABELED.
THE ARROW SHOWS
DIRECTION OF CURRENT
FLOW AND IS REPEATED
WHERE CURRENT
PATH CONTINUES.

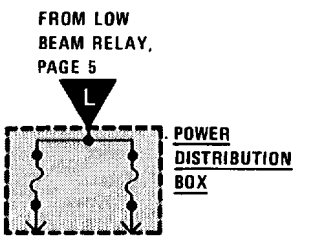


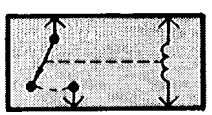
TWO CONNECTIONS
(PINS) IN THE SAME
CONNECTOR

DASHED LINE SHOWS
PARTS OF THE
SAME CONNECTOR

TWO POLE, FOUR
POSITION SWITCH

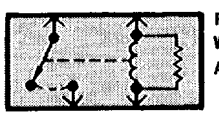






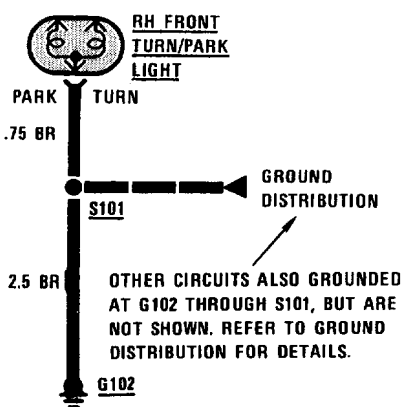
RELAY SHOWN
WITH NO
CURRENT
FLOWING
THROUGH
COIL

WHEN COIL IS
ENERGIZED, SWITCH
IS PULLED CLOSED



RELAY SHOWN
WITH RESISTOR
ACROSS COIL

RESISTOR ACROSS COIL
IS FOR NOISE
SUPPRESSION



LIGHT
EMITTING
DIODE

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

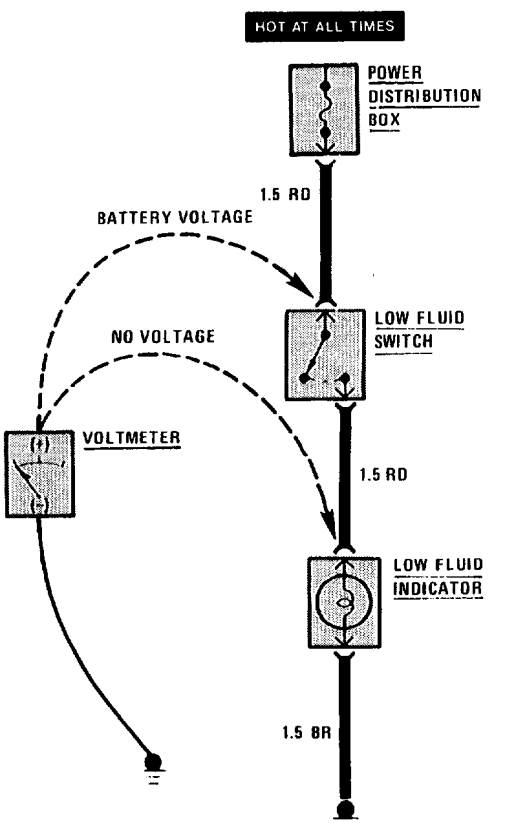
Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a **voltmeter** and/or **ohmmeter.** A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit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

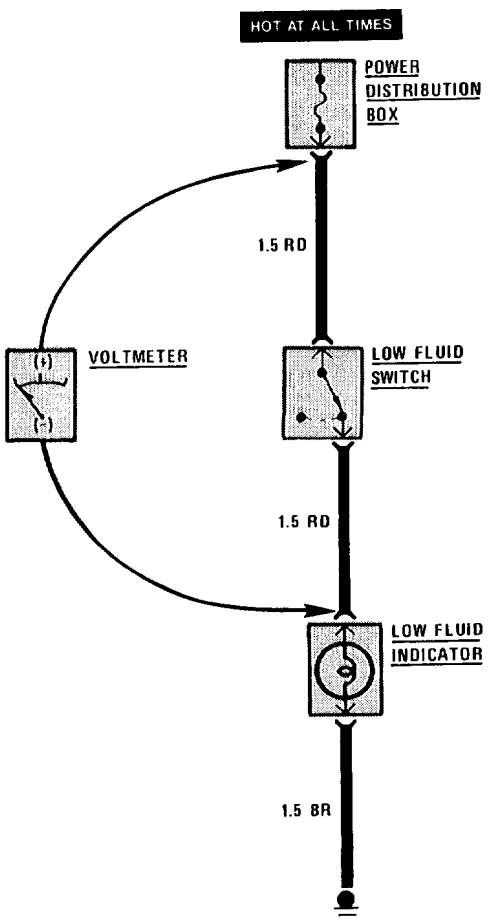


Voltage Test

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.

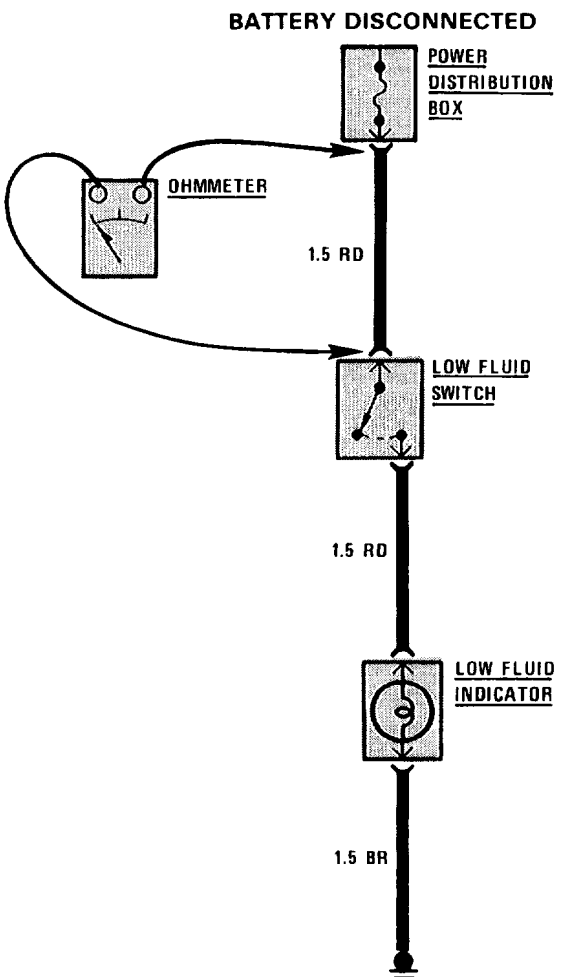
To test for voltage drop, connect the voltmeter leads to connectors at either end of the circuit's suspected problem area. The positive lead should be connected to the connector closest to the power source. The voltmeter will show the voltage drop between these two points.



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.

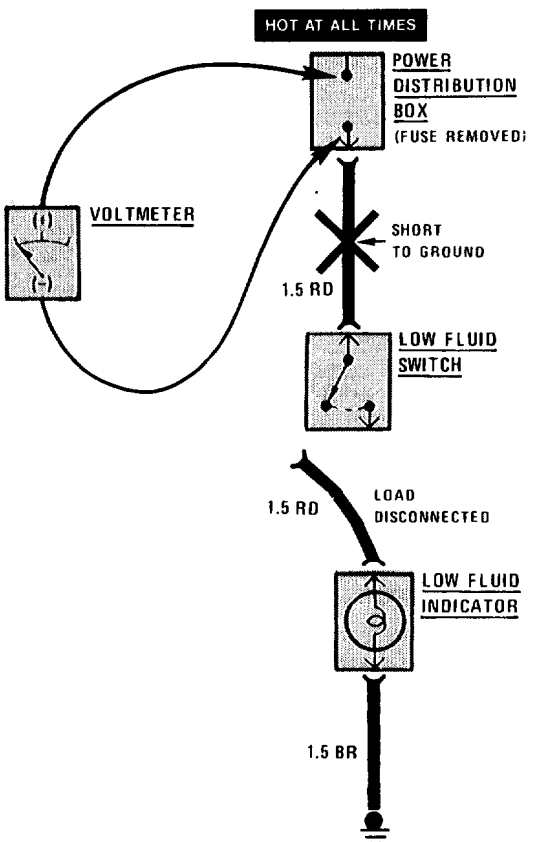


Continuity Test

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.

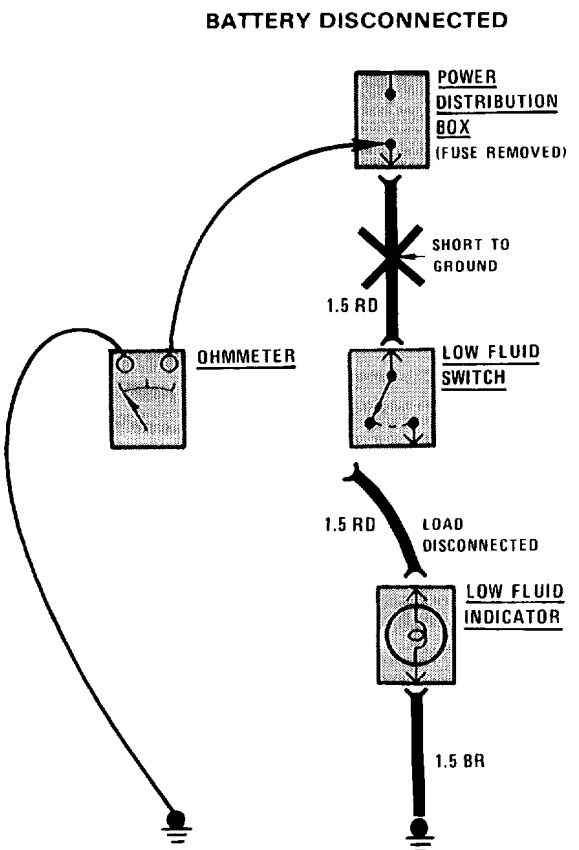


Short Test Using Voltmeter

Short Test Using Ohmmeter

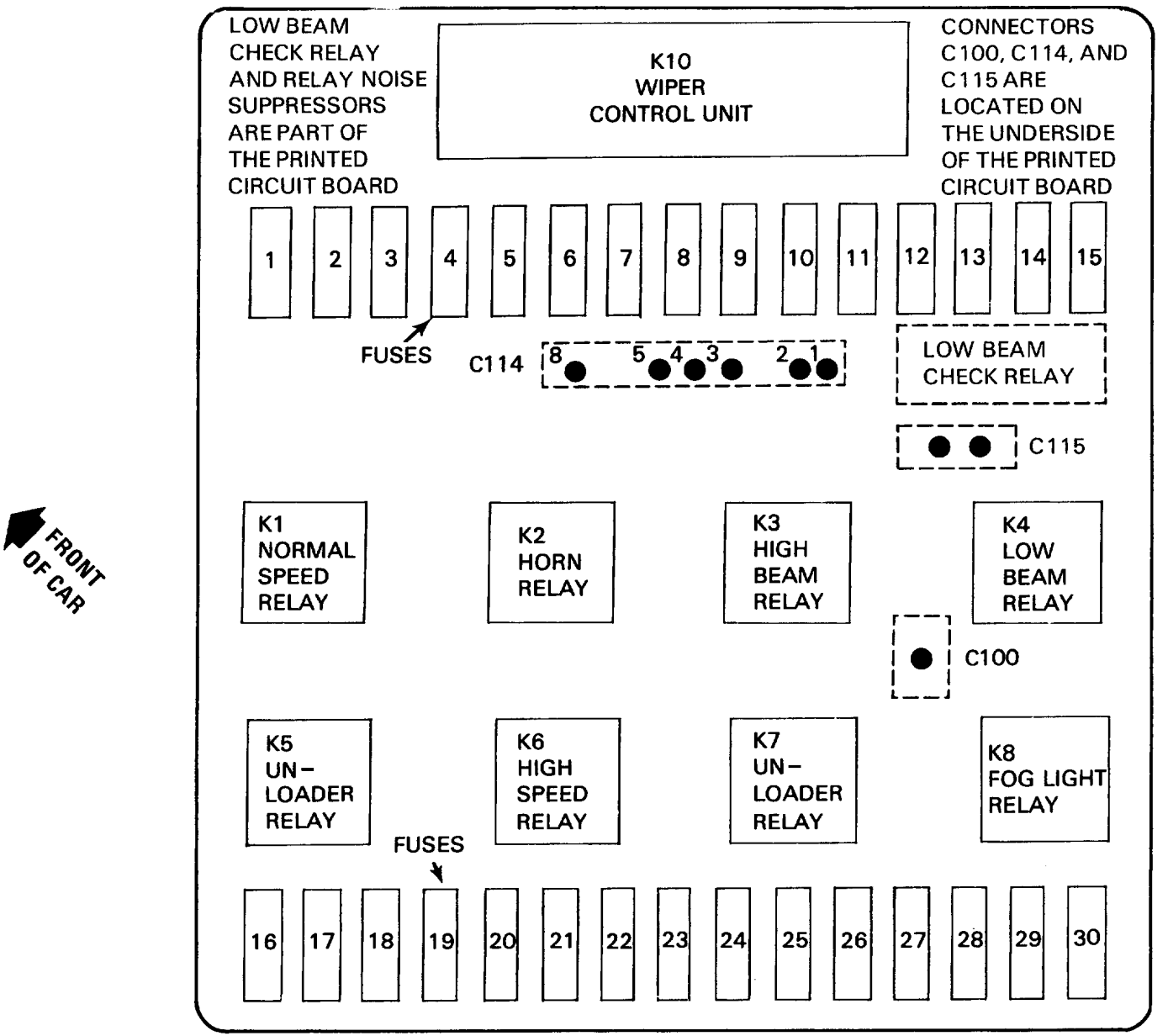
Disconnect the battery. Adjust the ohmmeter to read zero while holding the leads together. Remove the blown fuse and disconnect the load. Connect one lead of the ohmmeter to the fuse terminal that is closest to the load. Connect the other lead to a known good ground.

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

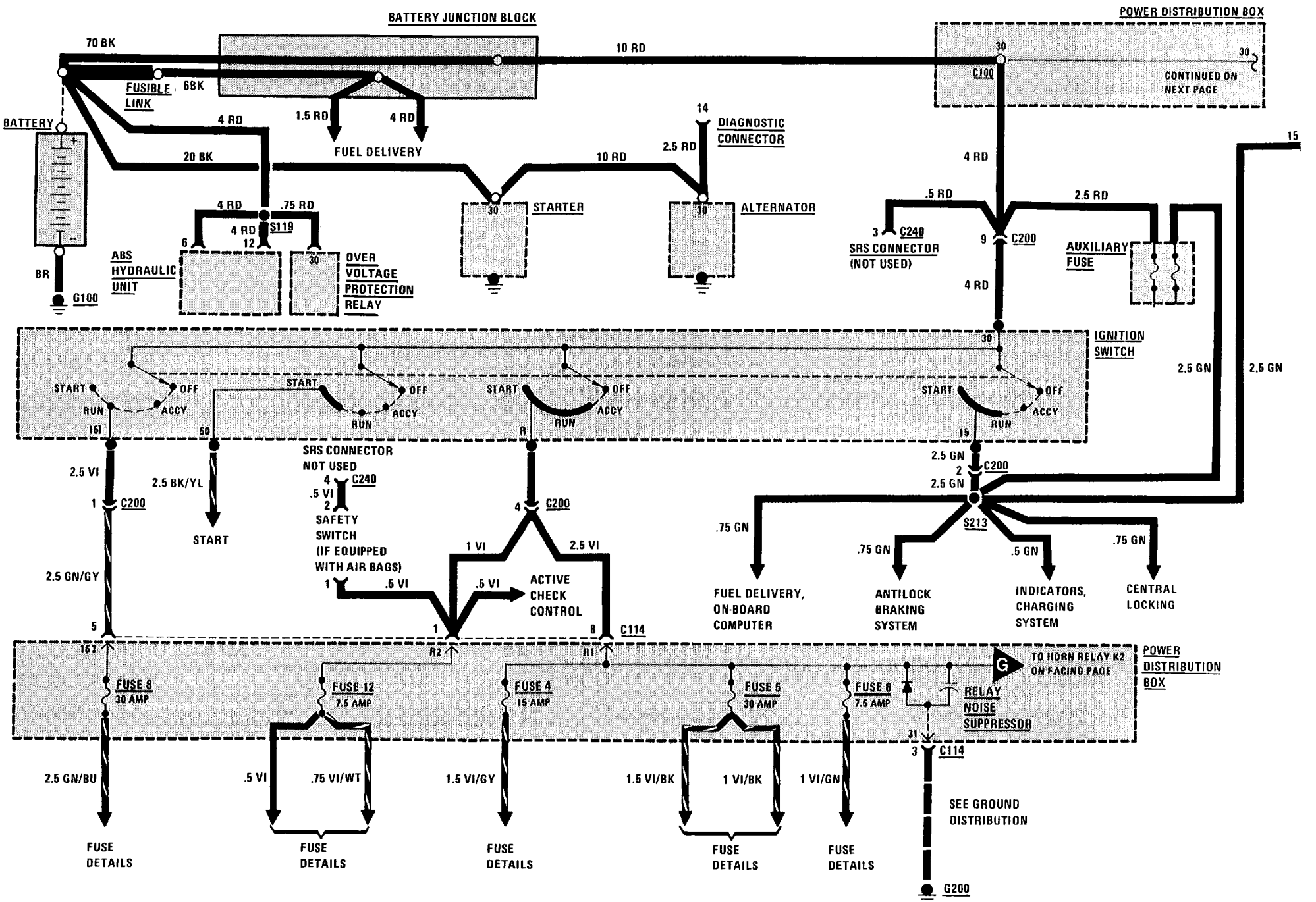
POWER DISTRIBUTION BOX

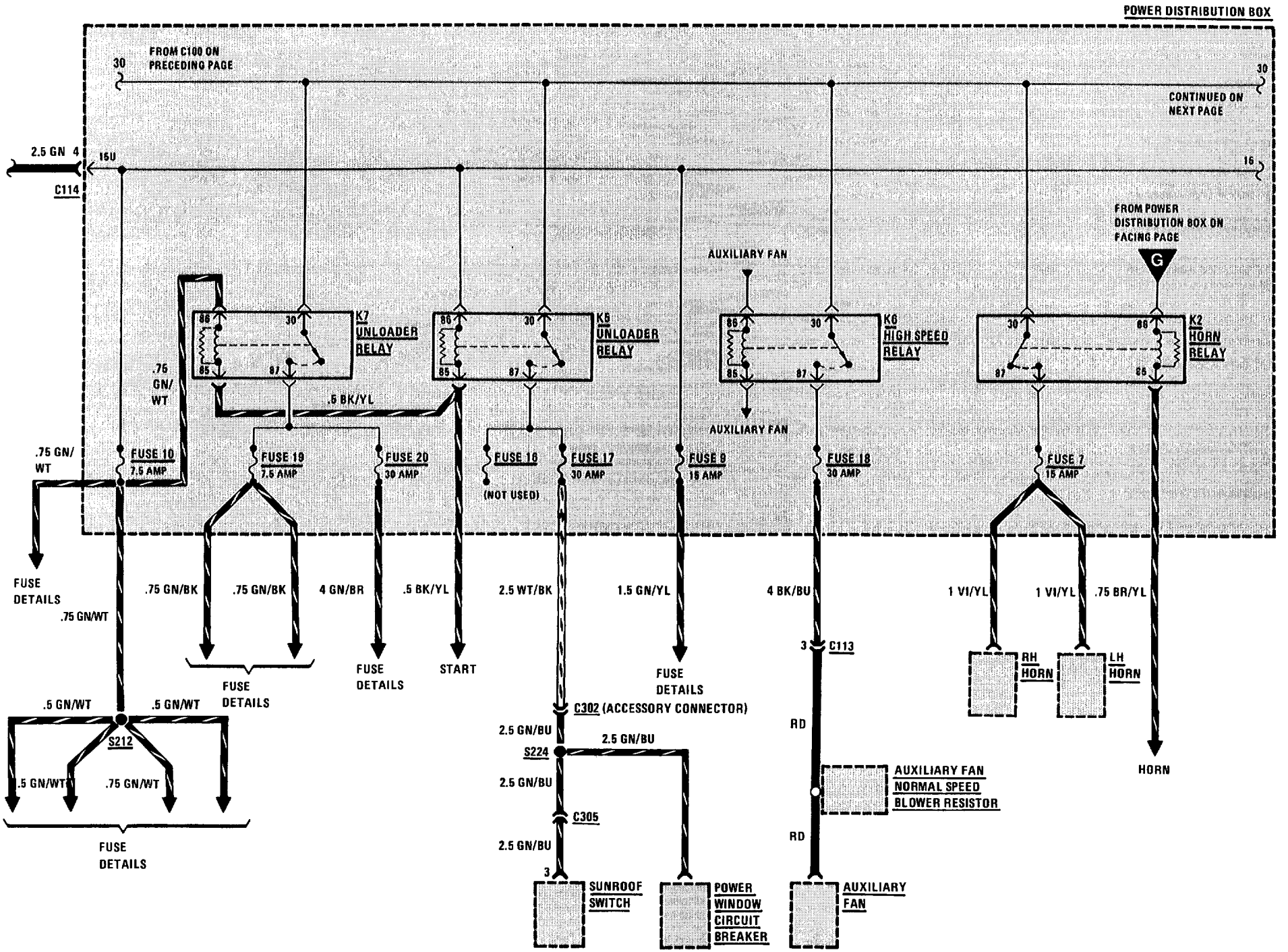


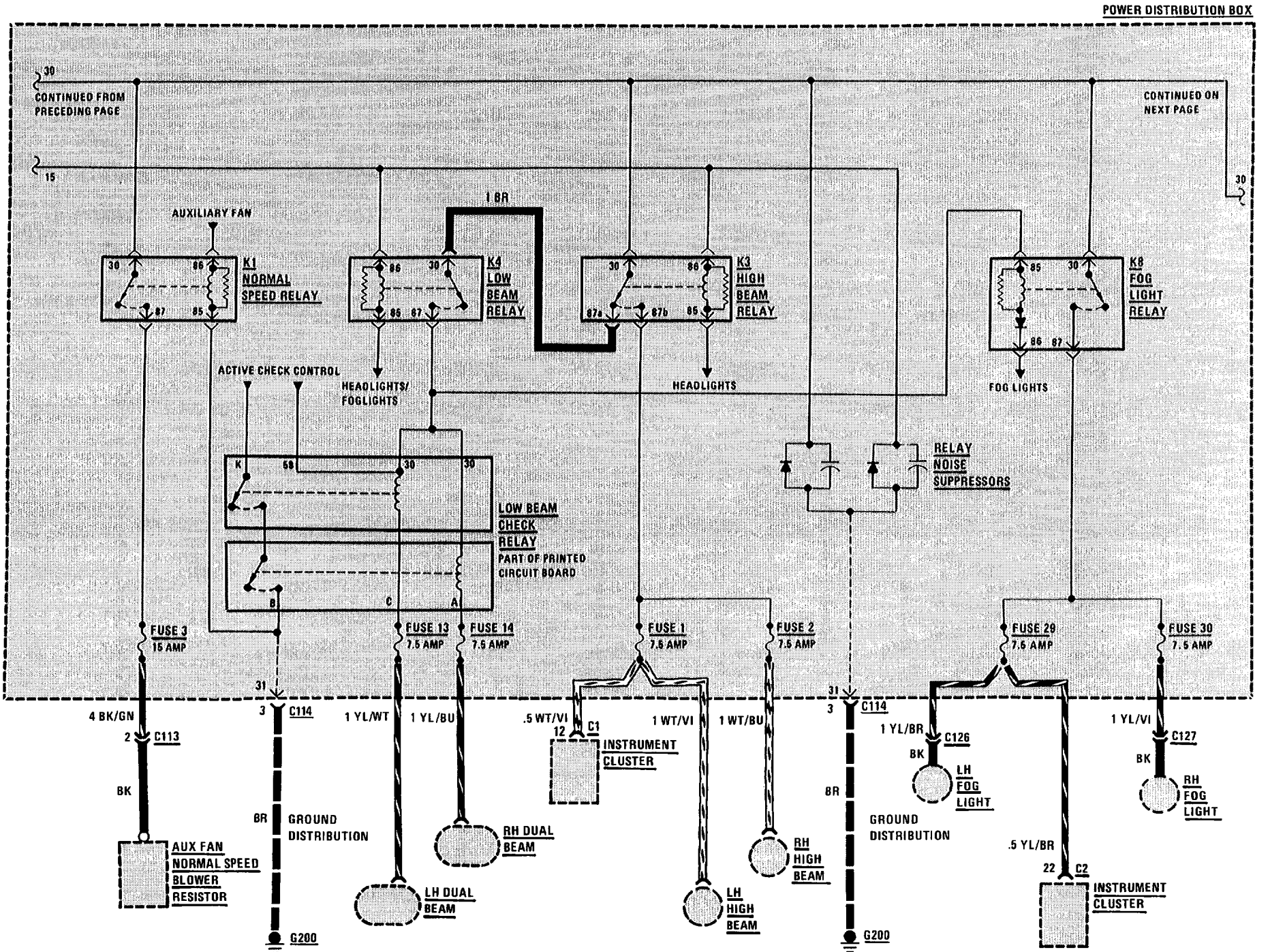
FUSE DATA CHART

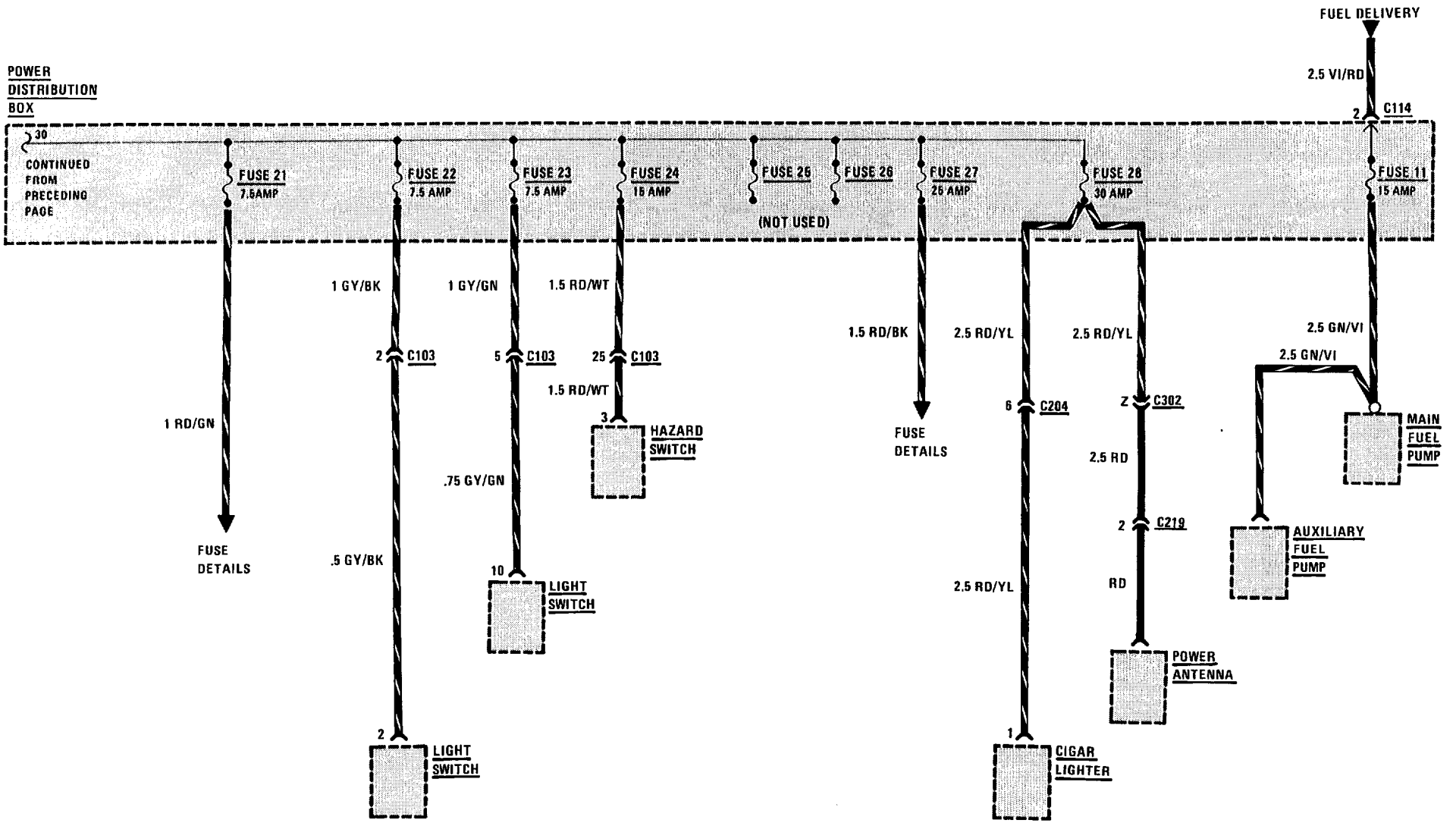
FUSE NO.	SIZE/ COLOR	CIRCUIT NAME
1	7.5A (BR)	Headlights (also fuses 2, 13, 14).
2	7.5A (BR)	Headlights (also fuses 1, 13, 14).
3	15A (LT BU)	Auxiliary Fan (also fuses 18, 19).
4	15A (LT BU)	Lights: Turn/Hazard Warning (also fuse 24); Active Check Control (also fuses 6, 10, 21, 22, 23).
5	30A (LT GN)	Wiper/Washer.
6	7.5A (BR)	Stop Lights/Cruise Control (also fuse 10); Active Check Control (also fuses 4, 10, 21, 22, 23);
7	15A (LT BU)	Horn.
8	30A (LT GN)	Rear Defogger (also fuse 23).
9	15A (LT BU)	Idle Speed Control (also fuse 10).
10	7.5A (BR)	Seatbelt Warning (also fuse 21); Service Interval Indicator (also fuse 21); Tachometer/Fuel Economy Gauges (also fuse 21); Gauges/Indicators; Brake Warning System; Back Up Lights; On-Board Computer (also fuses 12, 21, 27); Start; Idle Speed Control (also fuse 9); Active Check Control (also fuse 21); Stop Lights/Cruise Control (also fuse 6).
11	15A (LT BU)	Fuel Delivery.
12	7.5A (BR)	Radio (also fuse 21); Speedometer/Indicators (also fuse 8); On-Board Computer (also fuse 10, 21, 27).
13	7.5A (BR)	Headlights (also fuses 1, 2, 14).
14	7.5A (BR)	Headlights (also fuses 1, 2, 13).
15		Not Used.
16		Not Used.
17	30A (LT BU)	Sunroof & Power Windows
18	30A (LT GN)	Auxiliary Fan (also fuses 3, 19).
19	7.5A (BR)	Auxiliary Fan (also fuses 3, 18); Interior Lights (also fuses 21, 27); Power Mirrors.
20	30A (LT GN)	Heater/Air Conditioning (also fuse 28).
21	7.5A (BR)	Auto-Charging Flashlight; Glove Box Light; Ignition Key Warning/Seatbelt Warning (also fuse 10); Interior Lights (also fuses 14, 22, 27); Radio (also fuse 12); Trunk Light; Active Check Control (also fuses 4, 6, 10, 22, 23); Service Interval Indicator (also fuse 10); On-Board Computer (also fuses 10, 12, 27); Fuel Delivery; Tachometer/Fuel Economy Gauge (also fuse 10).
22	7.5A (BR)	Active Check Control (also fuses 4, 6, 10, 21, 23); Lights: Front Park/Tail (also fuse 23); Lights: Front Side Marker (also fuse 23).
23	7.5A (BR)	Lights: Dash Lights: Front Park/Tail (also fuse 22); Lights: Front Side Marker (also fuse 22); Lights: Rear Marker/License; Active Check Control (also fuses 4, 6, 10, 21 & 22); Rear Defogger (also fuse 8).
24	15A (LT BU)	Lights: Turn/Hazard Warning (also fuse 4).
25		Not Used.
26		Not Used.
27	30A (LT GN)	Interior Lights (also fuses 19, 21); Central Locking; On-Board Computer (also fuses 10, 12, 21).
28	30A (LT GN)	Cigar Lighter; Power Antenna.
29	7.5A (BR)	Fog Lights (also fuse 30).
30	7.5A (BR)	Fog Lights (also fuse 29).

0670-2 POWER DISTRIBUTION

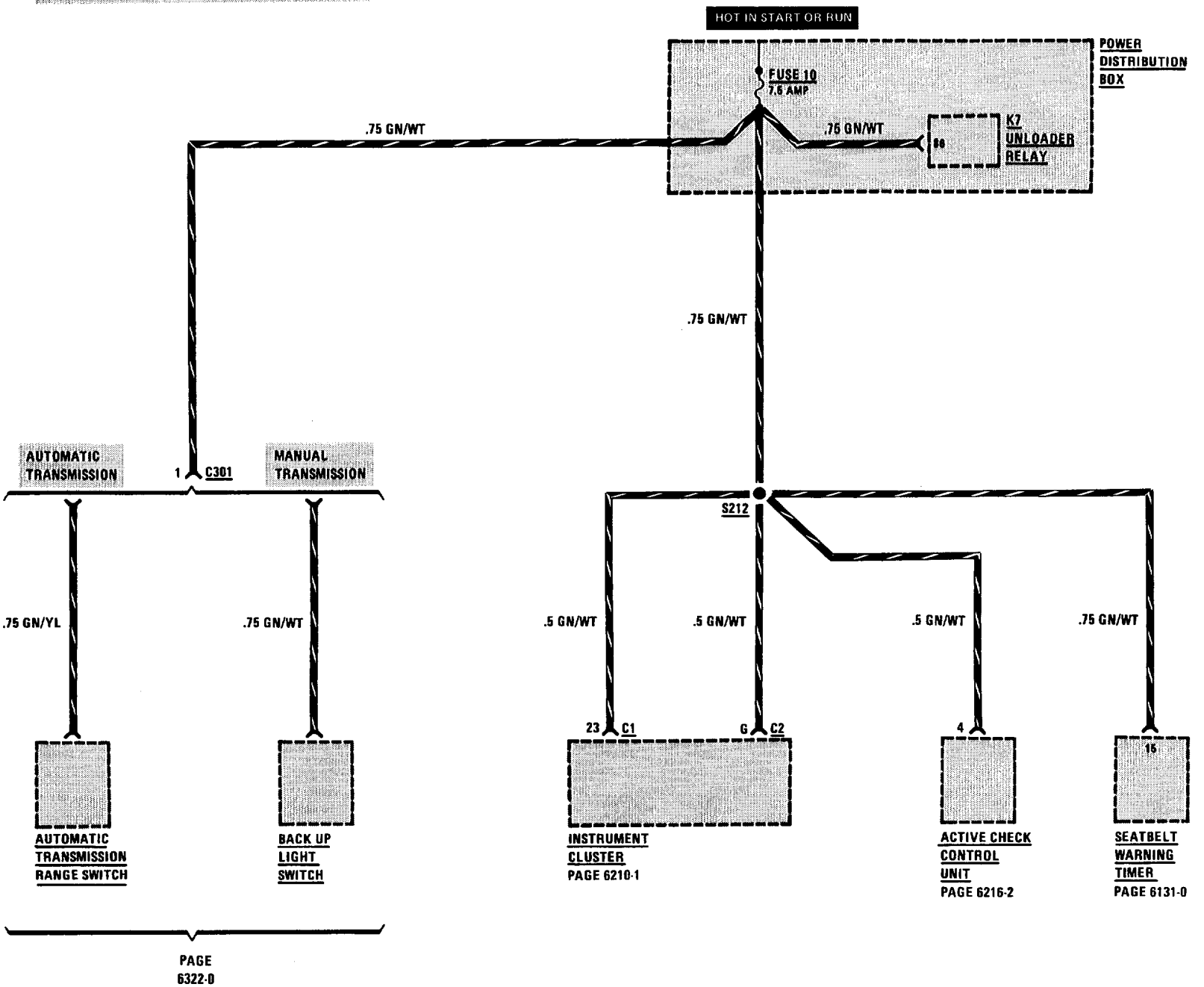



POWER DISTRIBUTION BOX
FROM C100 ON PRECEDING PAGE
30
CONTINUED ON NEXT PAGE
2.5 GN 4
15U
16
C114
FROM POWER DISTRIBUTION BOX ON FACING PAGE
G
AUXILIARY FAN
K7 UNLOADER RELAY
K6 UNLOADER RELAY
K6 HIGH SPEED RELAY
K2 HORN RELAY
86
85
87
.75 GN/WT
.5 BK/YL
AUXILIARY FAN
.75 GN/WT
FUSE 10 7.5 AMP
FUSE 19 7.5 AMP
FUSE 20 30 AMP
FUSE 16 (NOT USED)
FUSE 17 30 AMP
FUSE 9 15 AMP
FUSE 18 30 AMP
FUSE 7 15 AMP
FUSE DETAILS
.75 GN/WT
.75 GN/BK
.75 GN/BK
4 GN/BR
.5 BK/YL
START
2.5 WT/BK
1.5 GN/YL
4 BK/BU
1 VI/YL
1 VI/YL
.75 BR/YL
3
C113
RH HORN
LH HORN
HORN
C302 (ACCESSORY CONNECTOR)
2.5 GN/BU
S224
2.5 GN/BU
RD
AUXILIARY FAN NORMAL SPEED BLOWER RESISTOR
.5 GN/WT
.5 GN/WT
S212
.5 GN/WT
.75 GN/WT
2.5 GN/BU
C305
2.5 GN/BU
RD
3
SUNROOF SWITCH
POWER WINDOW CIRCUIT BREAKER
AUXILIARY FAN

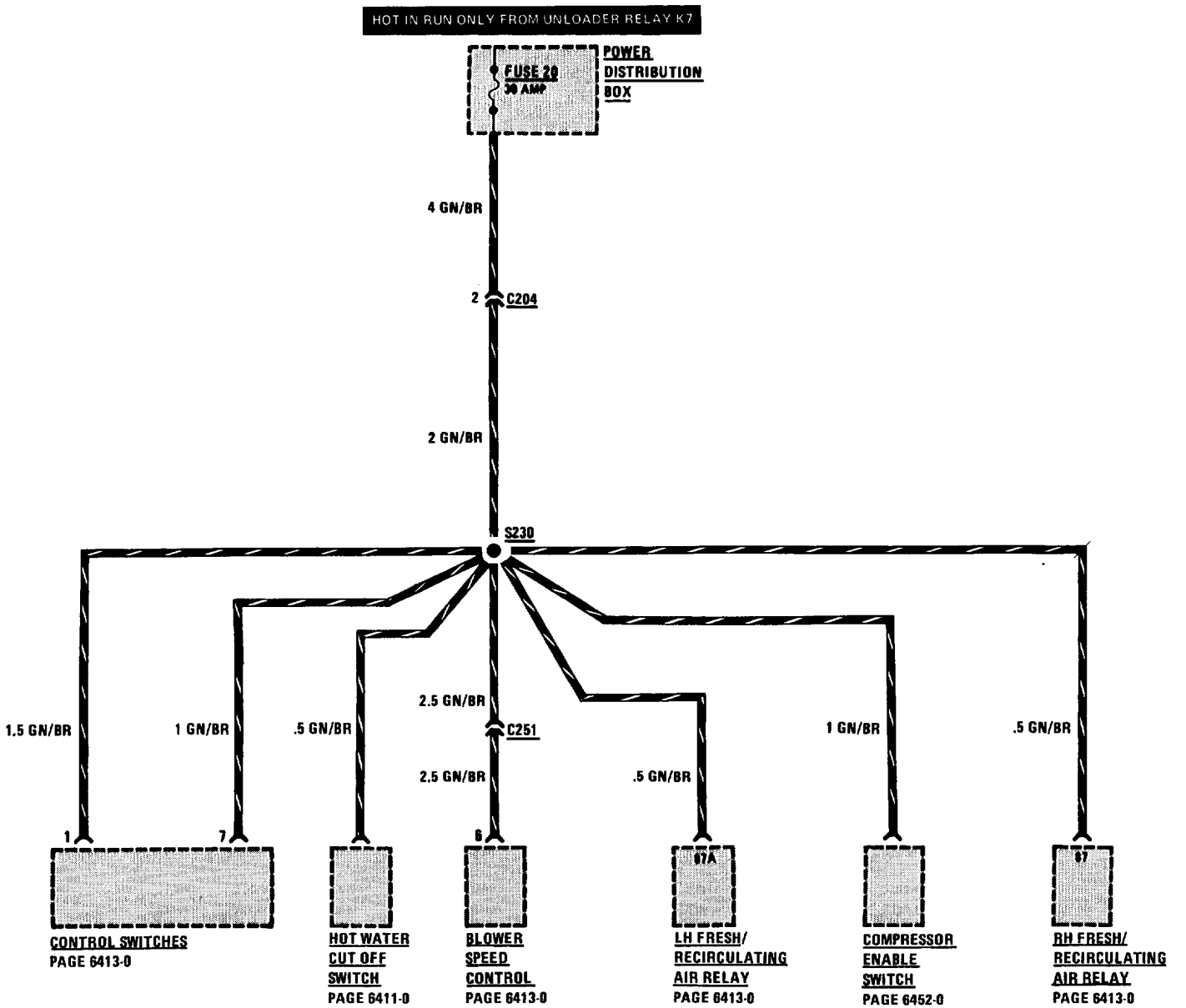

POWER DISTRIBUTION BOX
30
CONTINUED FROM PRECEDING PAGE
15
CONTINUED ON NEXT PAGE
30
AUXILIARY FAN
1 BR
K1 NORMAL SPEED RELAY
K4 LOW BEAM RELAY
K3 HIGH BEAM RELAY
K8 FOG LIGHT RELAY
ACTIVE CHECK CONTROL
HEADLIGHTS/ FOGLIGHTS
HEADLIGHTS
FOG LIGHTS
RELAY NOISE SUPPRESSORS
LOW BEAM CHECK RELAY
PART OF PRINTED CIRCUIT BOARD
FUSE 3 15 AMP
FUSE 13 7.5 AMP
FUSE 14 7.5 AMP
FUSE 1 7.5 AMP
FUSE 2 7.5 AMP
FUSE 29 7.5 AMP
FUSE 30 7.5 AMP
4 BK/GN
2 C113
BK
AUX FAN NORMAL SPEED BLOWER RESISTOR
31
3 C114
BR
GROUND DISTRIBUTION
G200
1 YL/WT
1 YL/BU
RH DUAL BEAM
LH DUAL BEAM
.5 WT/VI
12 C1
INSTRUMENT CLUSTER
1 WT/VI
1 WT/BU
LH HIGH BEAM
RH HIGH BEAM
1 YL/BR
C126
LH FOG LIGHT
1 YL/VI
C127
RH FOG LIGHT
.5 YL/BR
22 C2


FUEL DELIVERY
2.5 VI/RD
2 C114
POWER DISTRIBUTION BOX
30
CONTINUED FROM PRECEDING PAGE
FUSE 21 7.5AMP
FUSE 22 7.5 AMP
FUSE 23 7.5 AMP
FUSE 24 15 AMP
FUSE 25
FUSE 26
(NOT USED)
FUSE 27 25 AMP
FUSE 28 30 AMP
FUSE 11 15 AMP
1 GY/BK
1 GY/GN
1.5 RD/WT
1.5 RD/BK
2.5 RD/YL
2.5 RD/YL
2.5 GN/VI
2.5 GN/VI
2 C103
5 C103
25 C103
1.5 RD/WT
3 HAZARD SWITCH
6 C204
Z C302
MAIN FUEL PUMP
1 RD/GN
FUSE DETAILS
.75 GY/GN
FUSE DETAILS
2.5 RD
2 C219
AUXILIARY FUEL PUMP
.5 GY/BK
10 LIGHT SWITCH
RD
2.5 RD/YL
POWER ANTENNA
2 LIGHT SWITCH
1 CIGAR LIGHTER

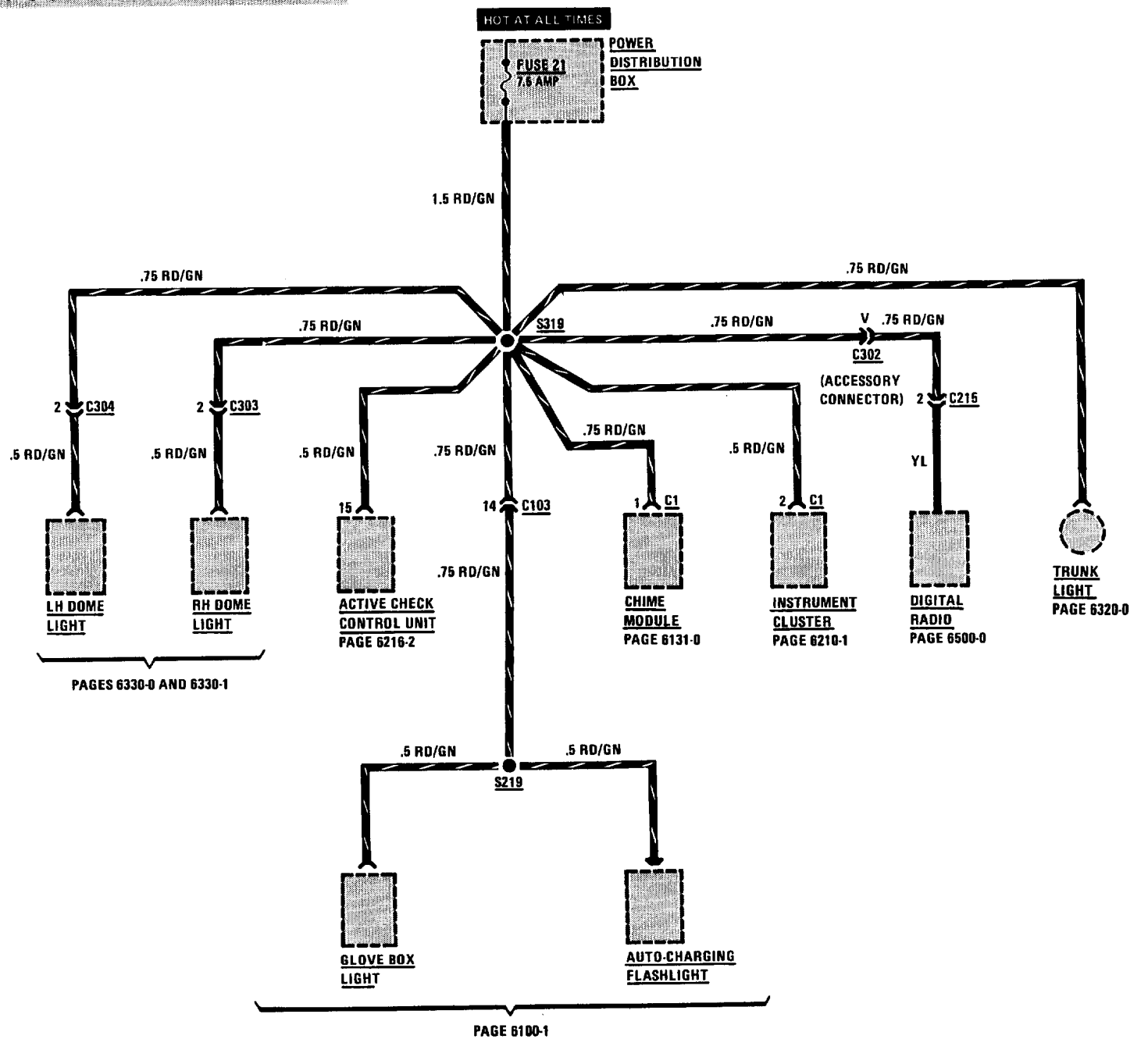
FUSE DETAILS: FUSE 10



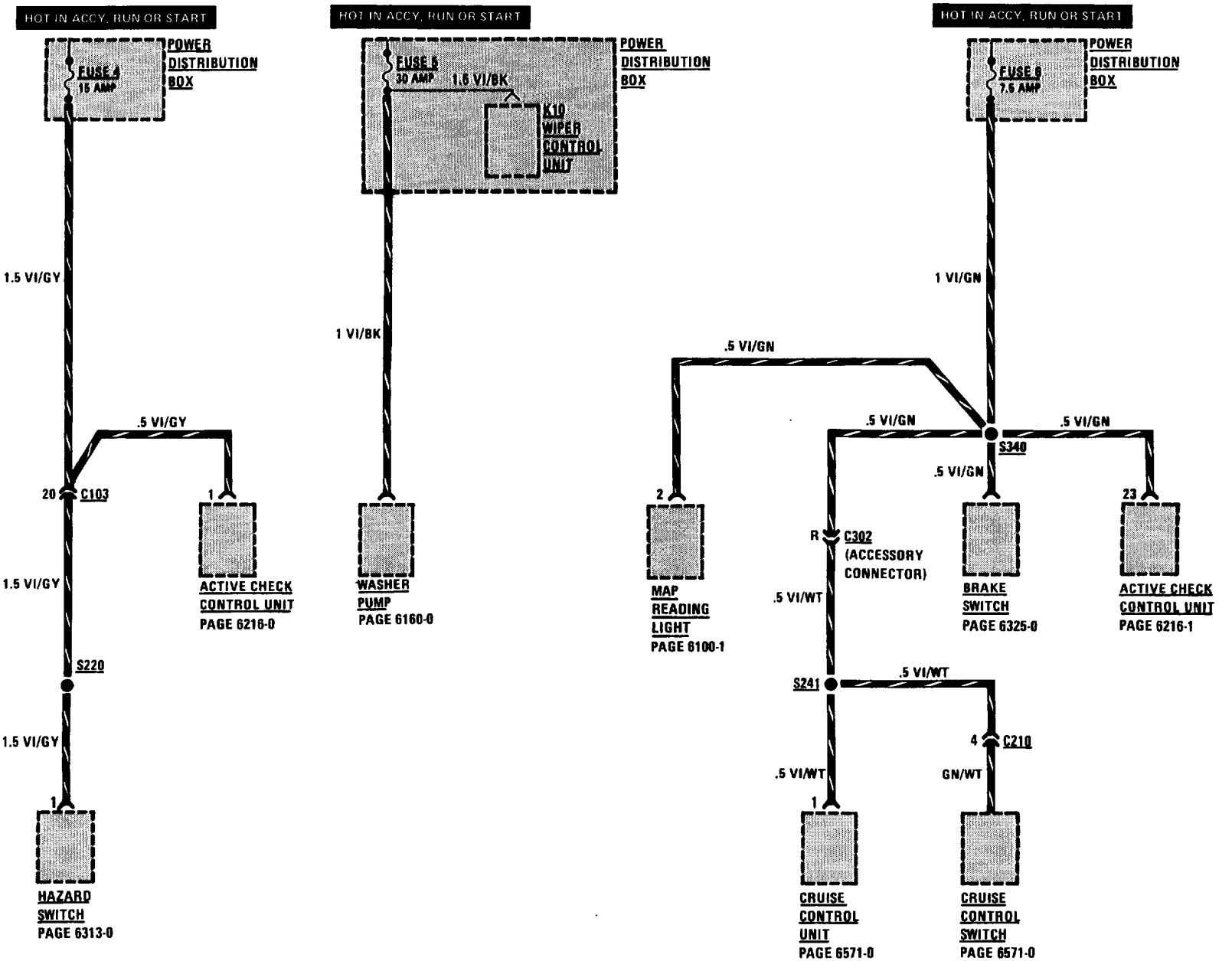
FUSE DETAILS: FUSE 20



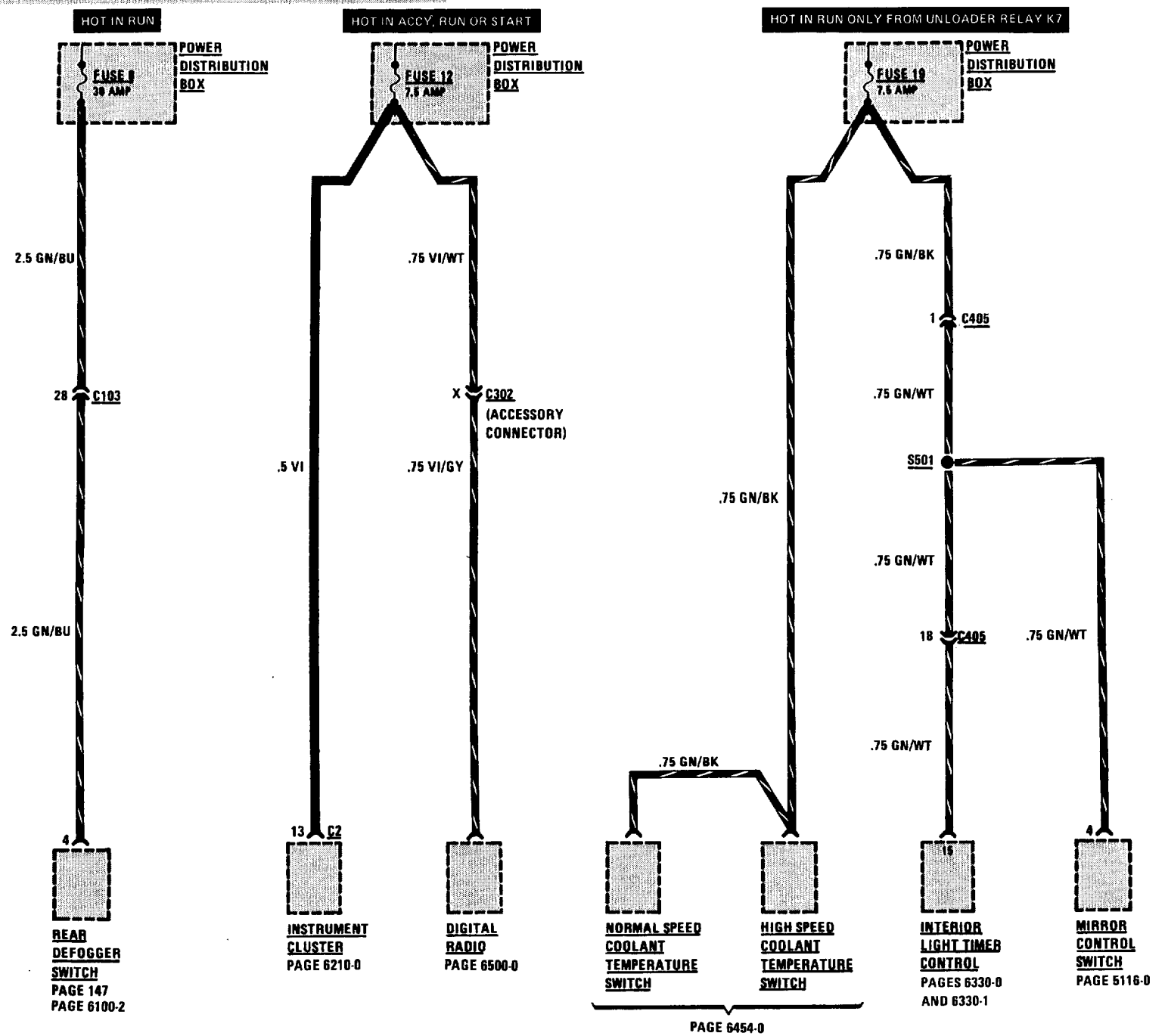
FUSE DETAILS: FUSE 21



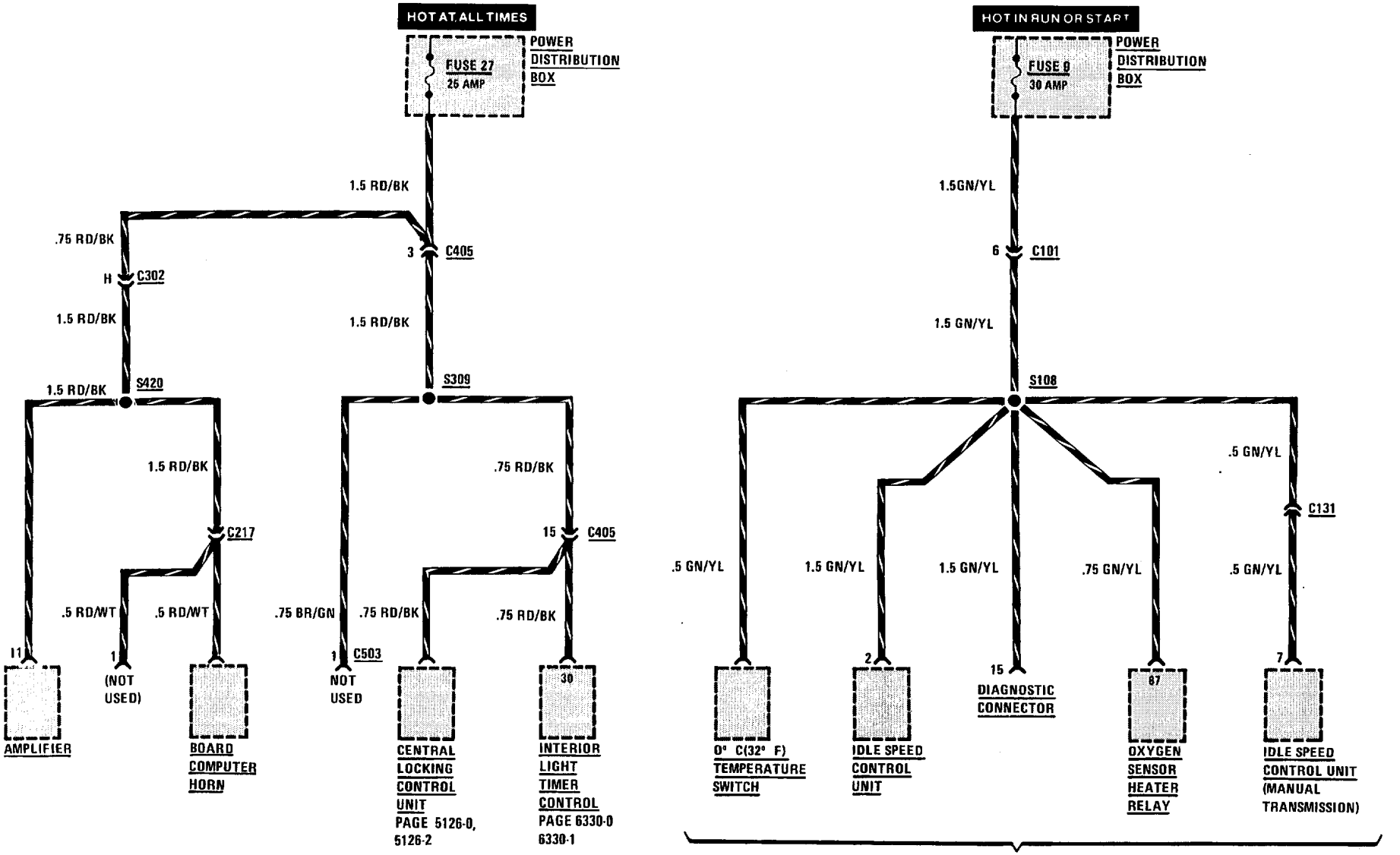
FUSE DETAILS: FUSE 4, 5 AND 6



FUSE DETAILS: FUSES 8, 12 AND 19

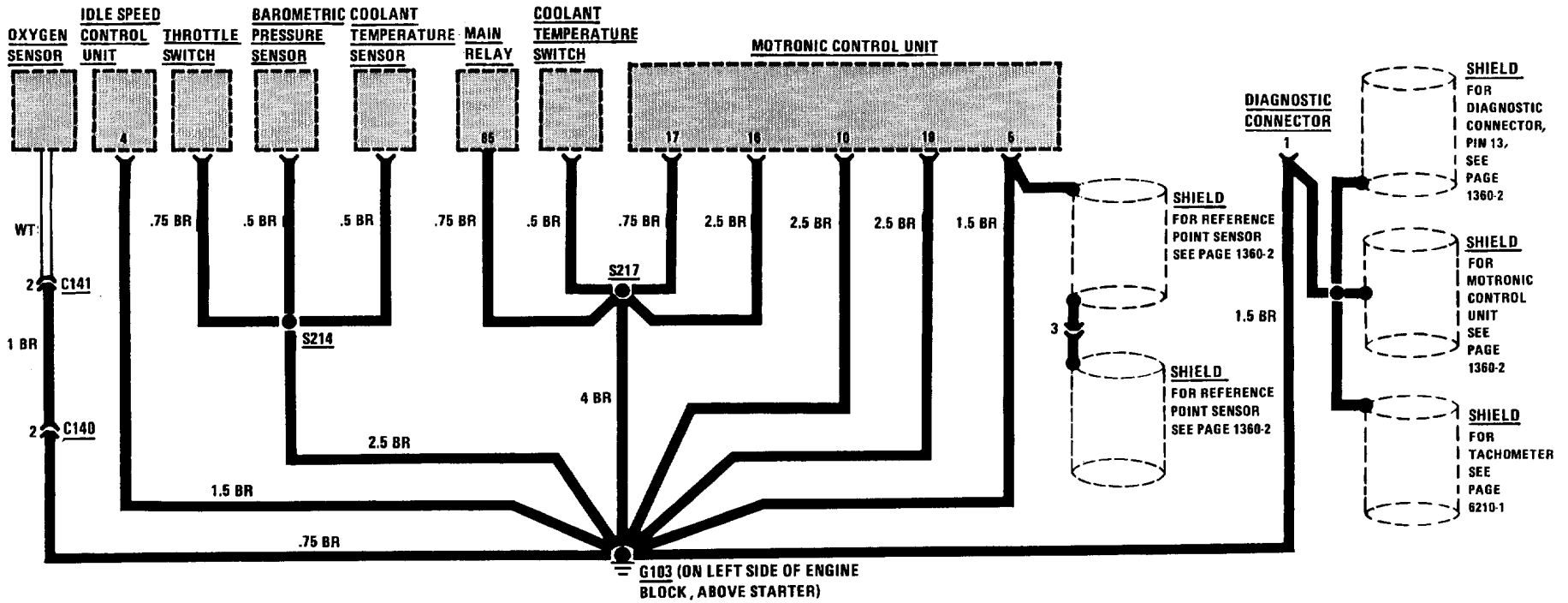


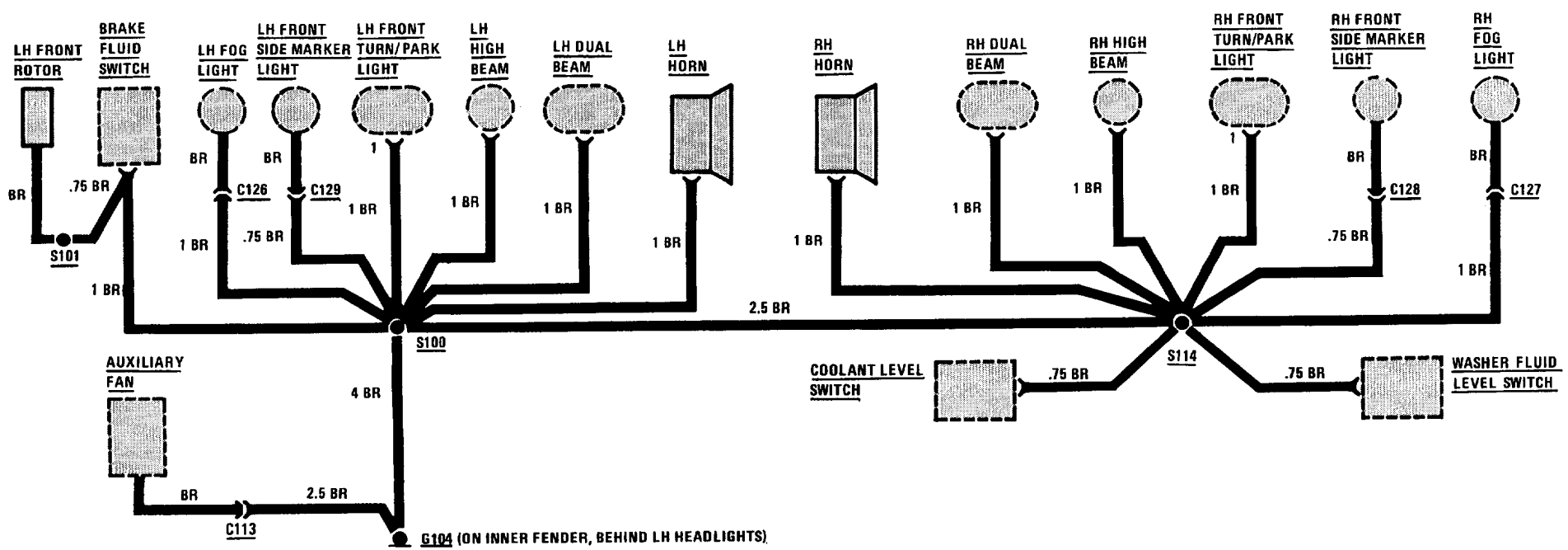
FUSE DETAILS: FUSE 27 AND 9



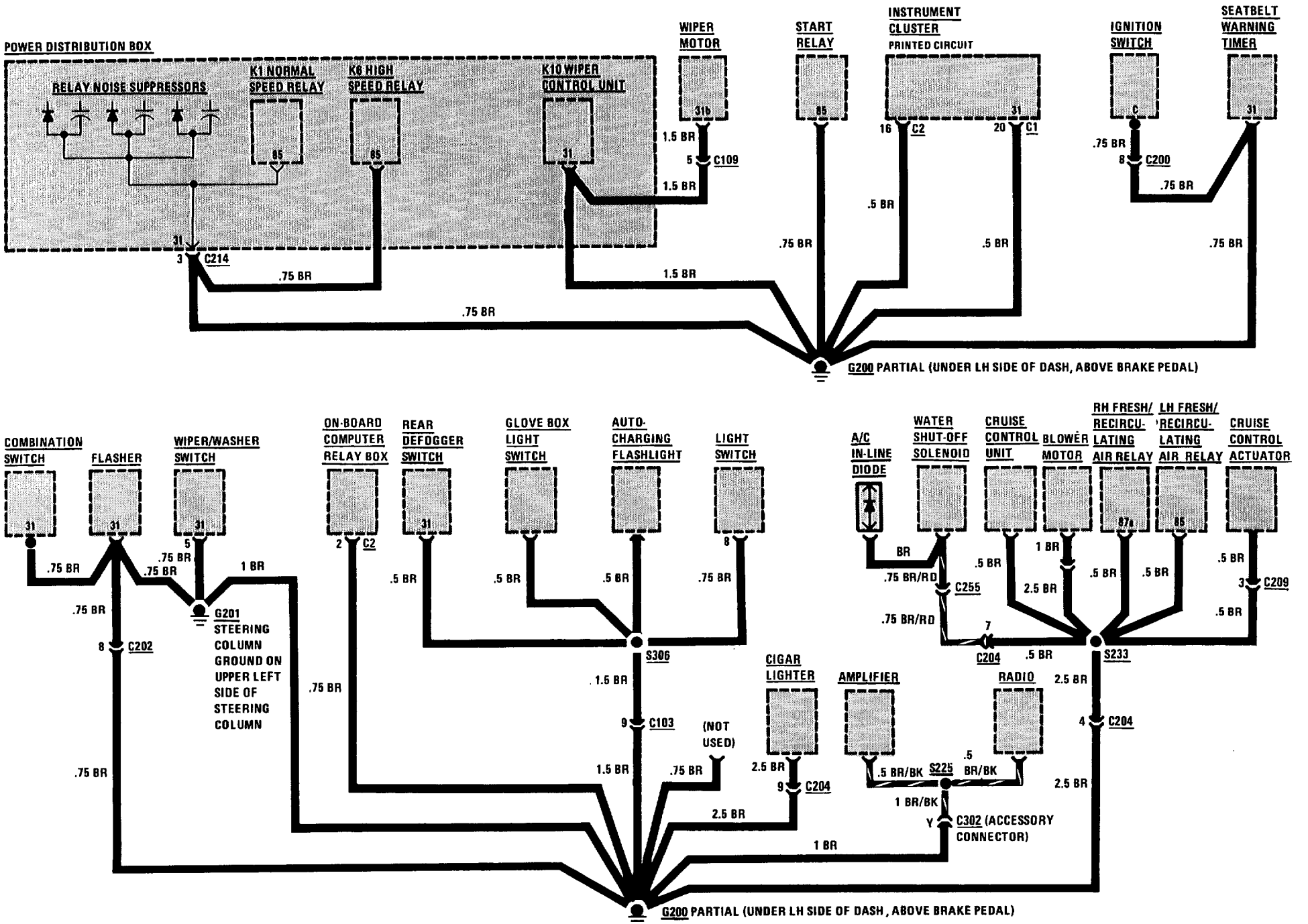
PAGE 1360-3

GROUND DISTRIBUTION (G103 AND G104)

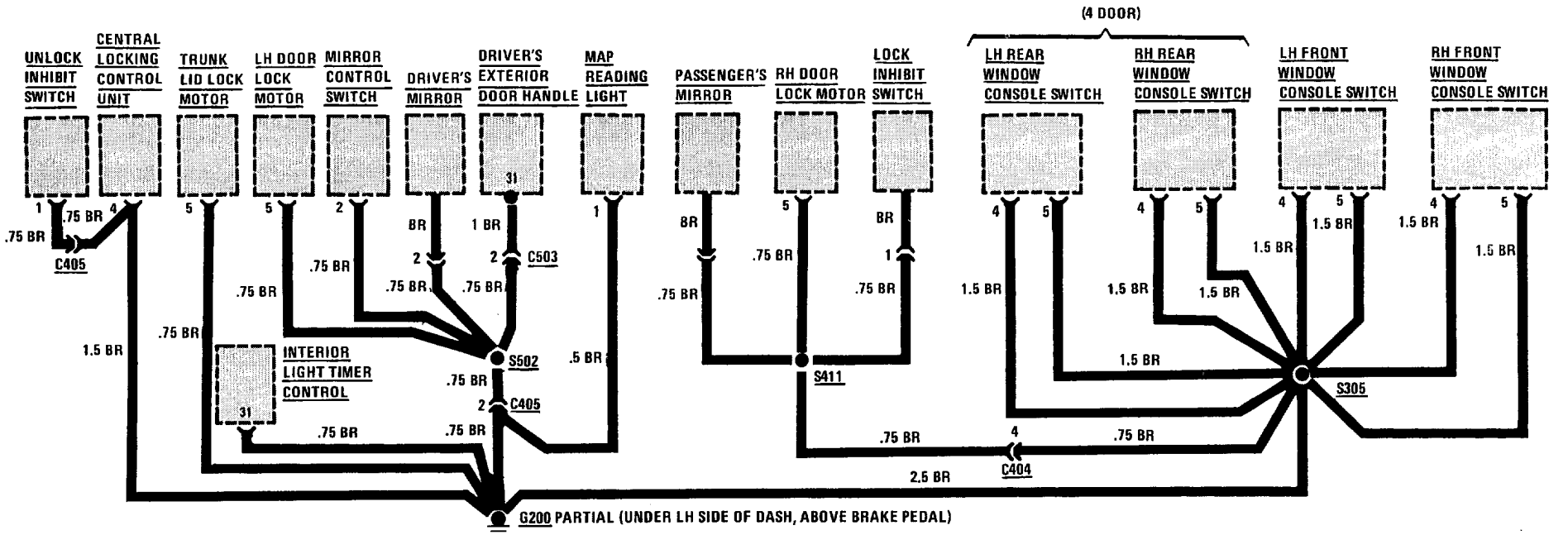


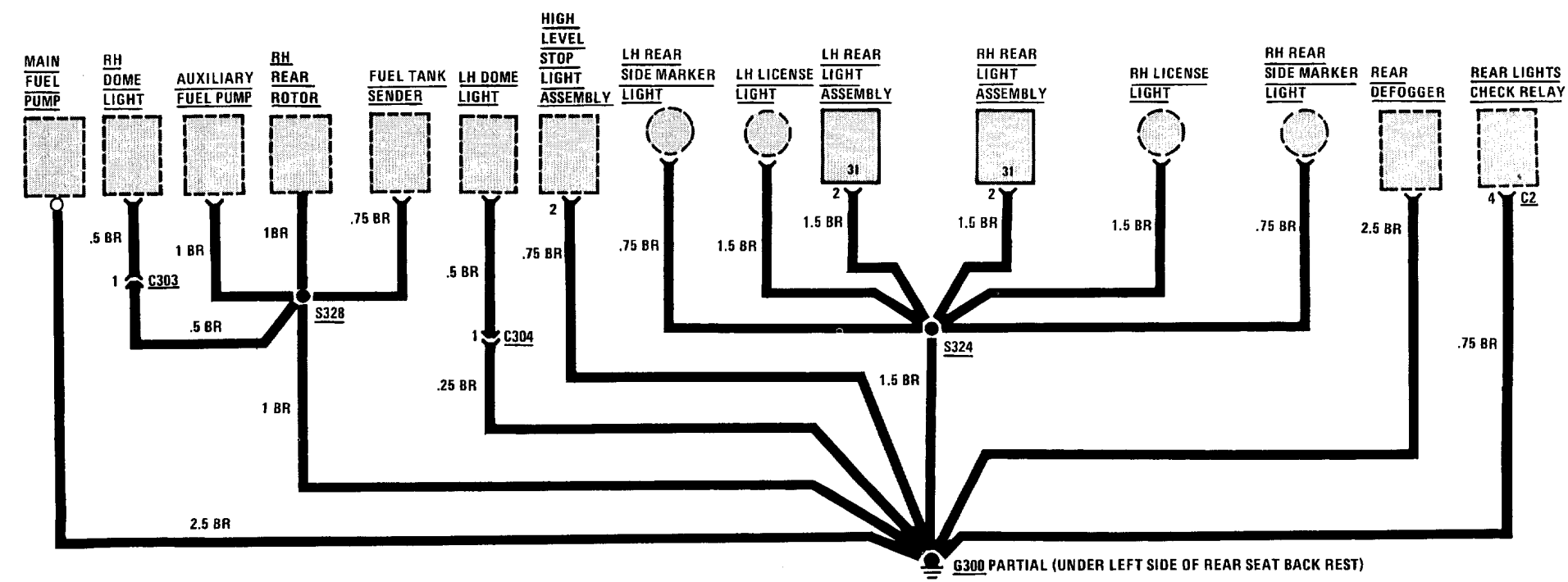


GROUND DISTRIBUTION (G200 PARTIAL AND G201)

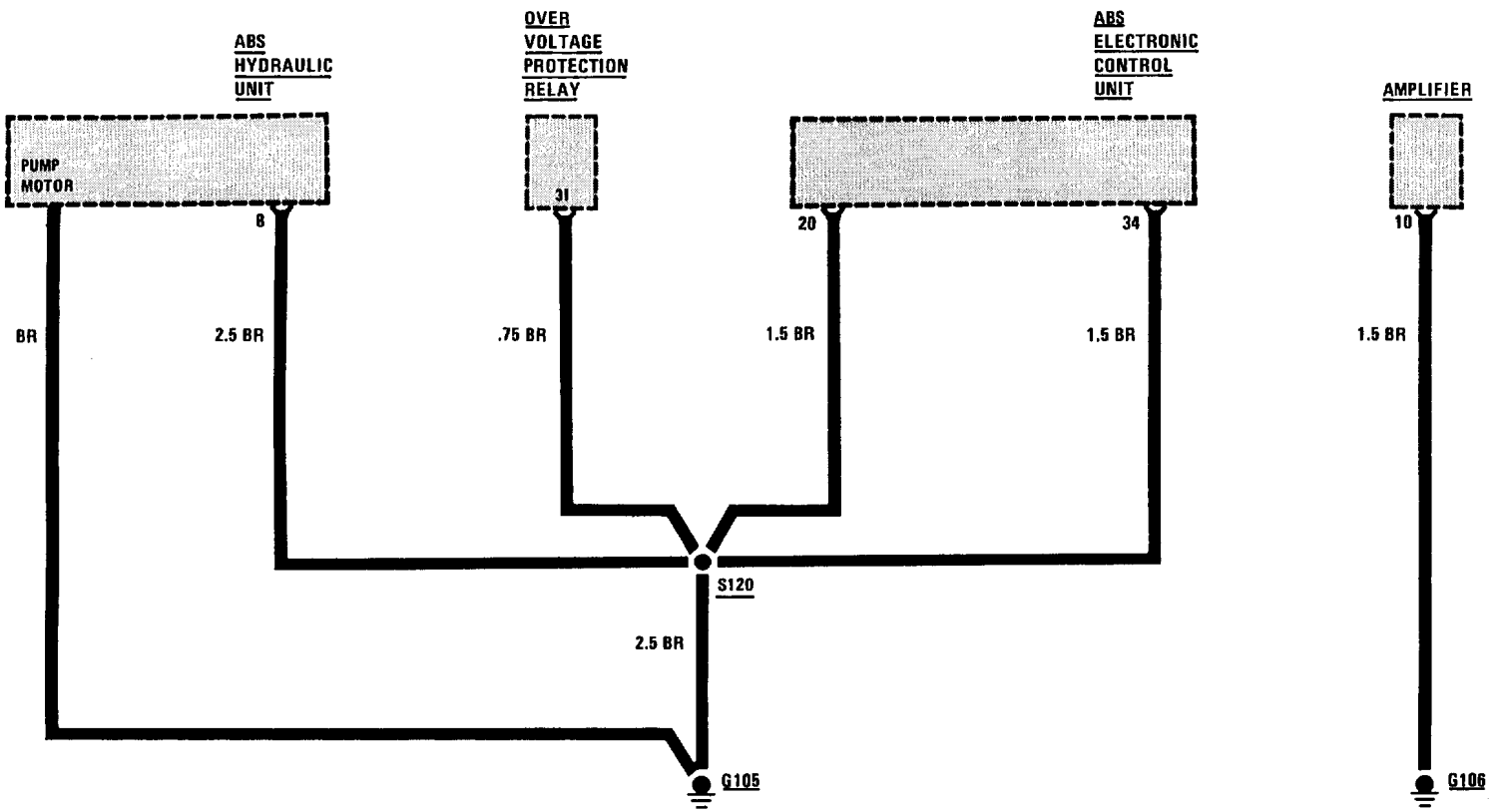


GROUND DISTRIBUTION (G200 PARTIAL AND G300)

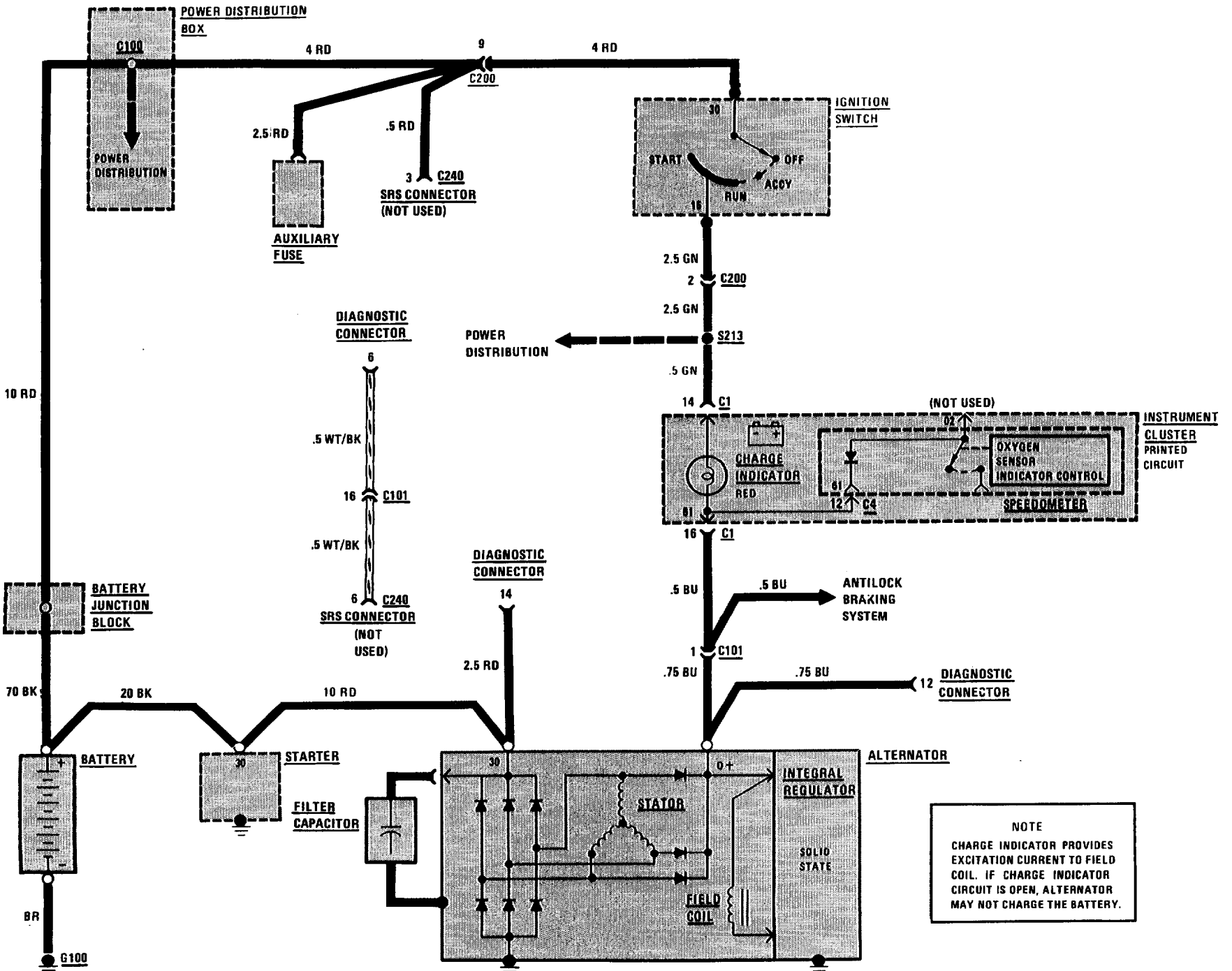




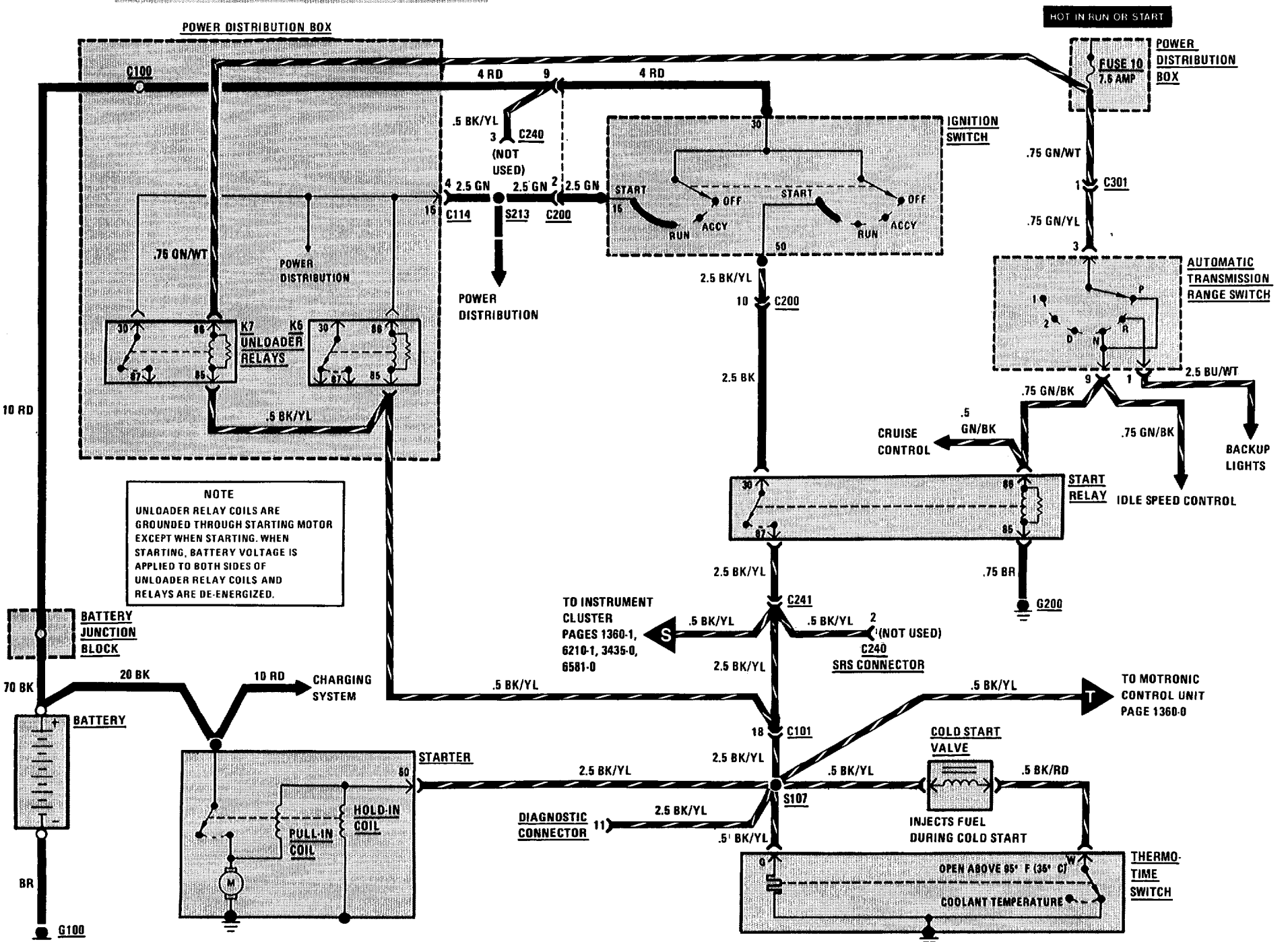
GROUND DISTRIBUTION: (G105 AND G106)



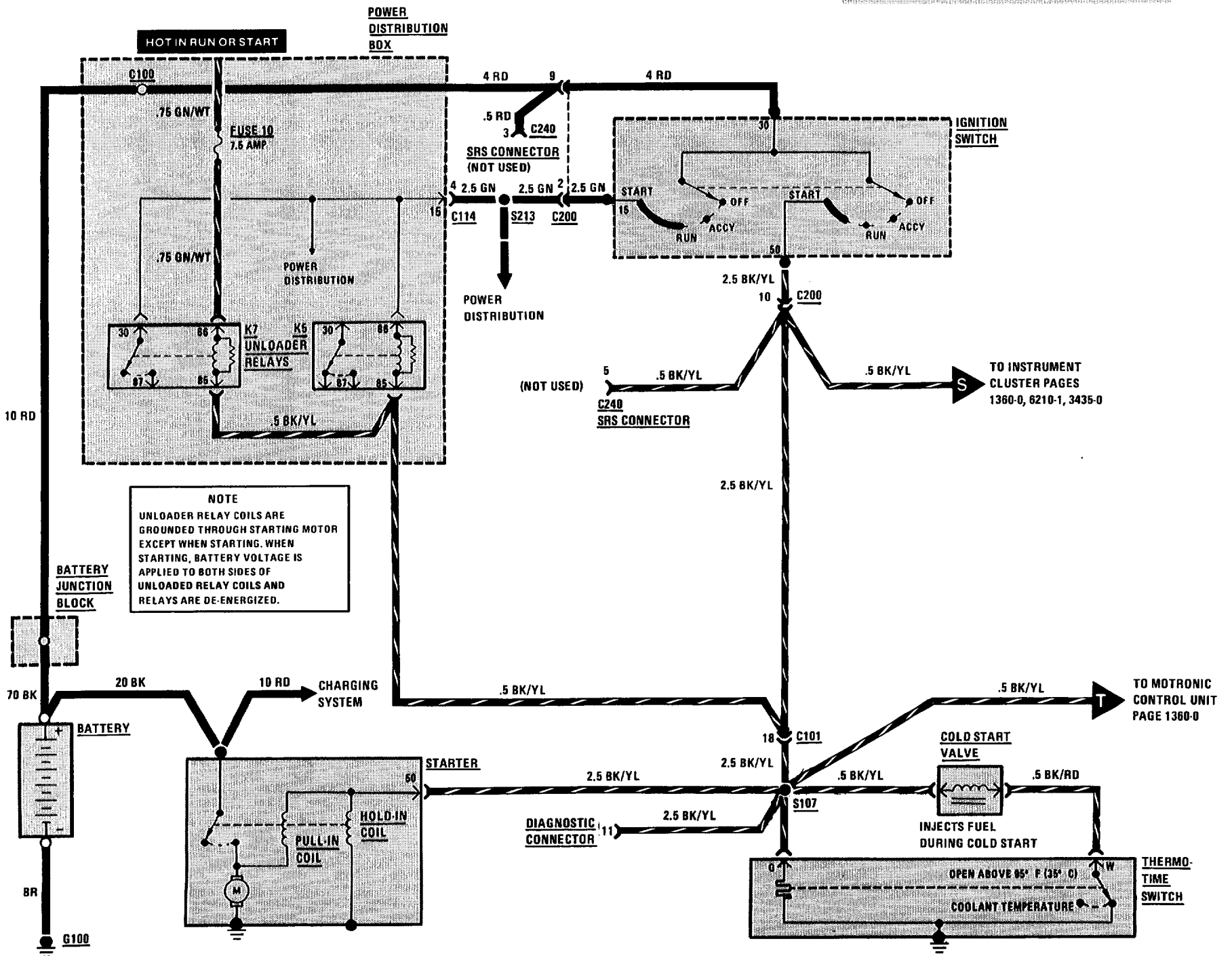
1230-0 CHARGE



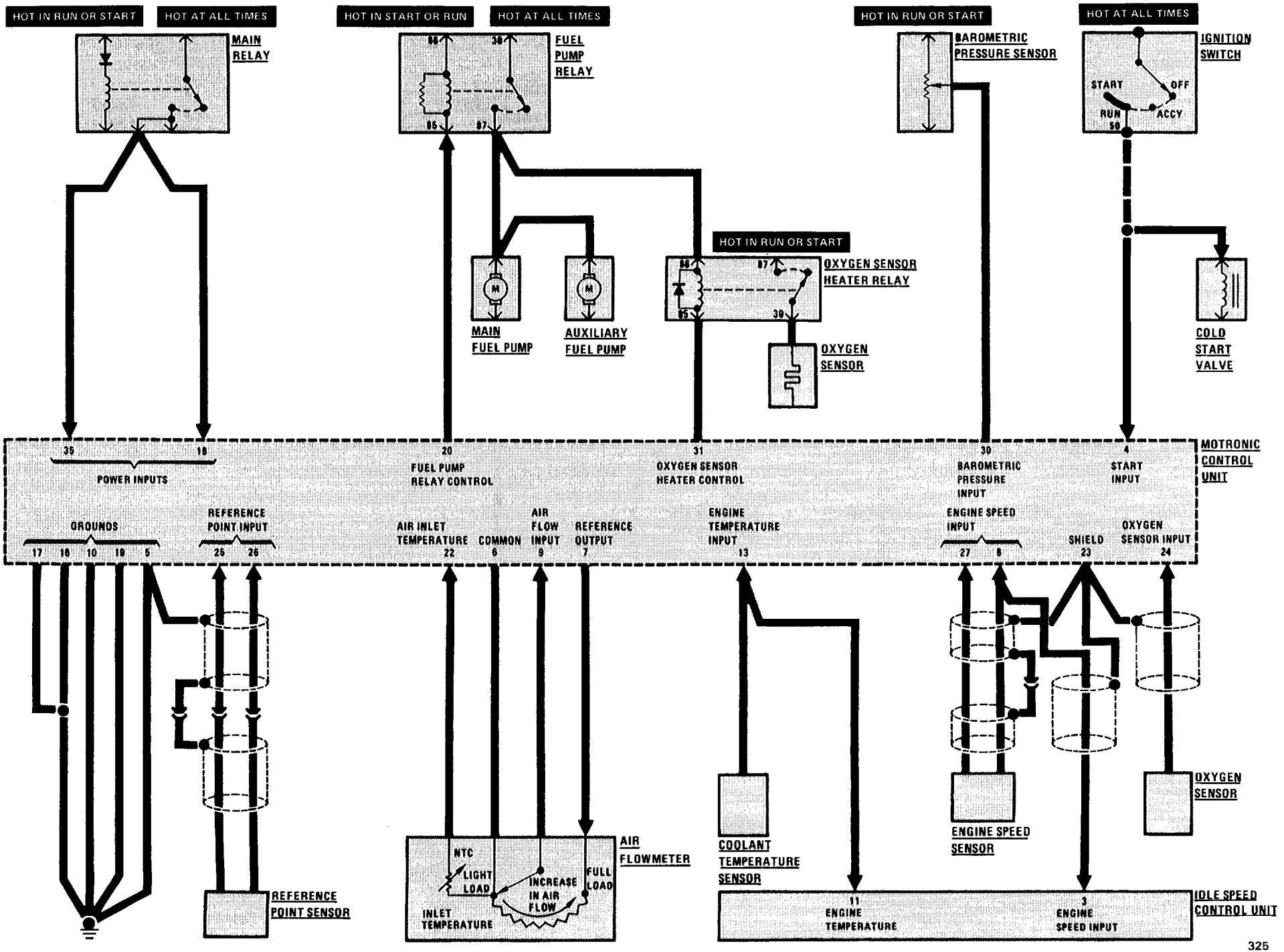
AUTOMATIC TRANSMISSION

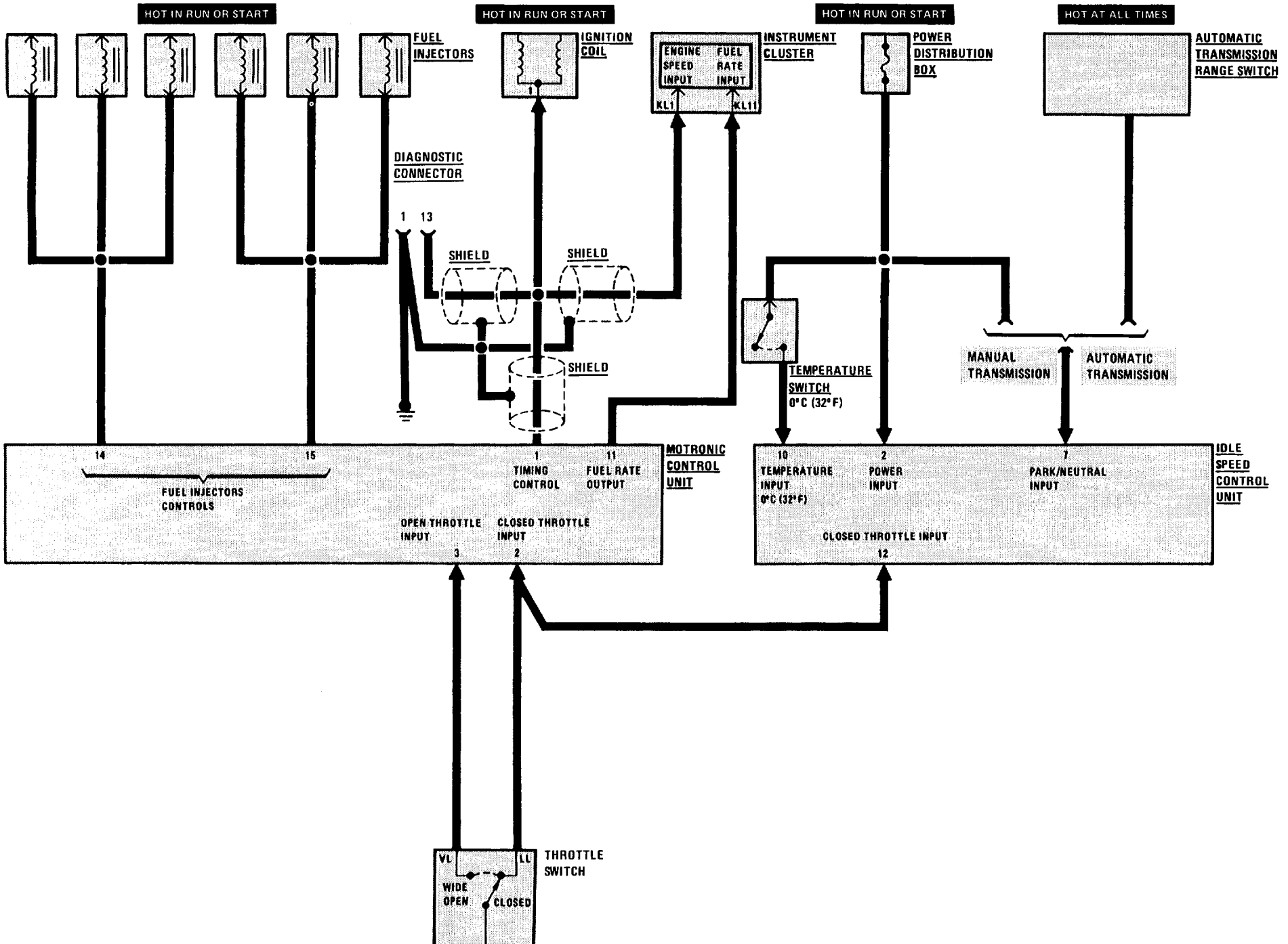


MANUAL TRANSMISSION

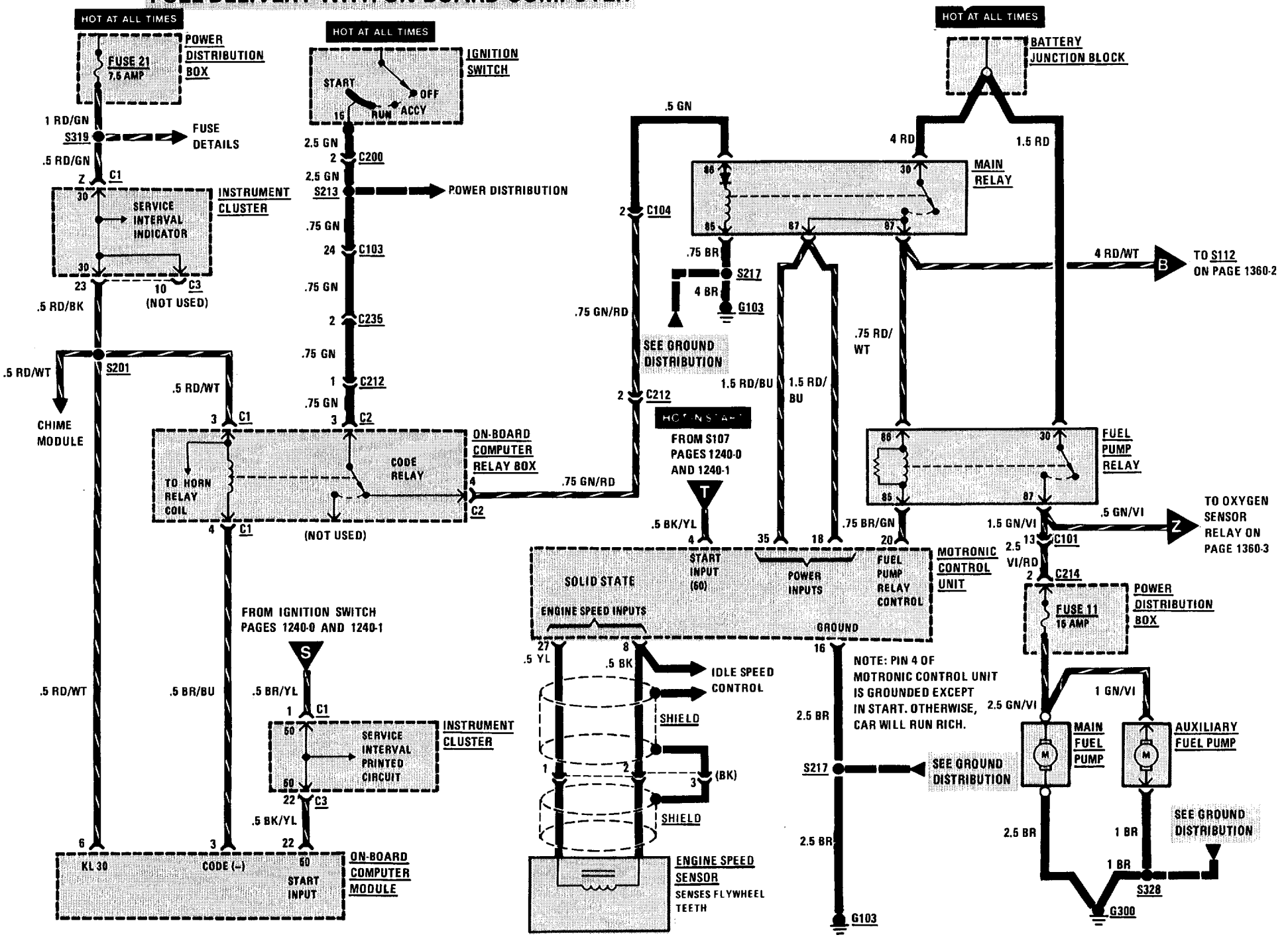


1250-0 ENGINE CONTROL BLOCK DIAGRAMS

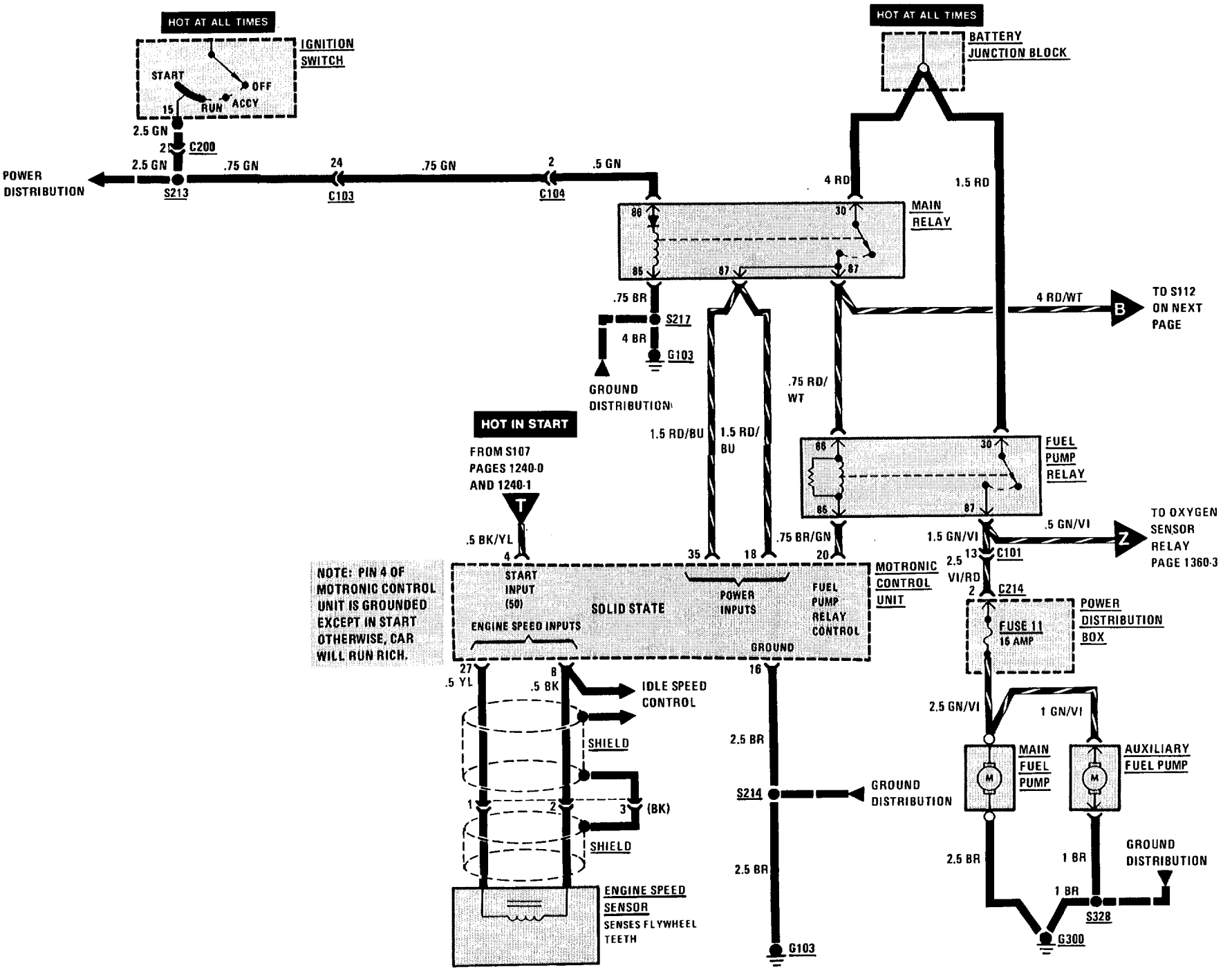


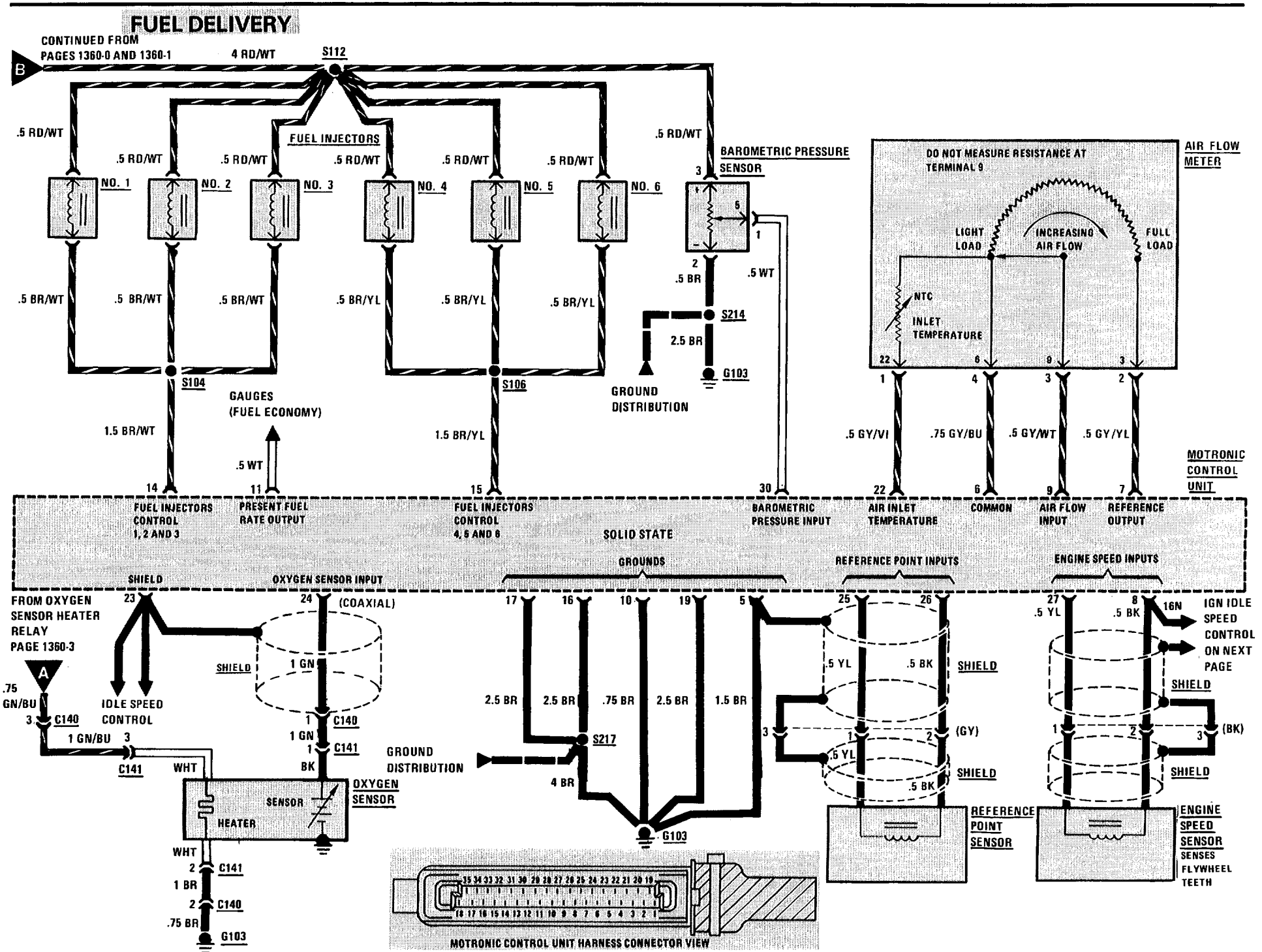

HOT IN RUN OR START
HOT IN RUN OR START
HOT IN RUN OR START
HOT AT ALL TIMES
FUEL INJECTORS
IGNITION COIL
ENGINE SPEED INPUT
FUEL RATE INPUT
KL1
KL15
INSTRUMENT CLUSTER
POWER DISTRIBUTION BOX
AUTOMATIC TRANSMISSION RANGE SWITCH
DIAGNOSTIC CONNECTOR
1
13
SHIELD
SHIELD
SHIELD
TEMPERATURE SWITCH
0°C (32°F)
MANUAL TRANSMISSION
AUTOMATIC TRANSMISSION
14
15
1
11
FUEL INJECTORS CONTROLS
TIMING CONTROL
FUEL RATE OUTPUT
MOTRONIC CONTROL UNIT
OPEN THROTTLE INPUT
CLOSED THROTTLE INPUT
3
2
10
2
7
TEMPERATURE INPUT 0°C (32°F)
POWER INPUT
PARK/NEUTRAL INPUT
CLOSED THROTTLE INPUT
12
IDLE SPEED CONTROL UNIT
VL
LL
WIDE OPEN
CLOSED
THROTTLE SWITCH

FUEL DELIVERY WITH ON-BOARD COMPUTER

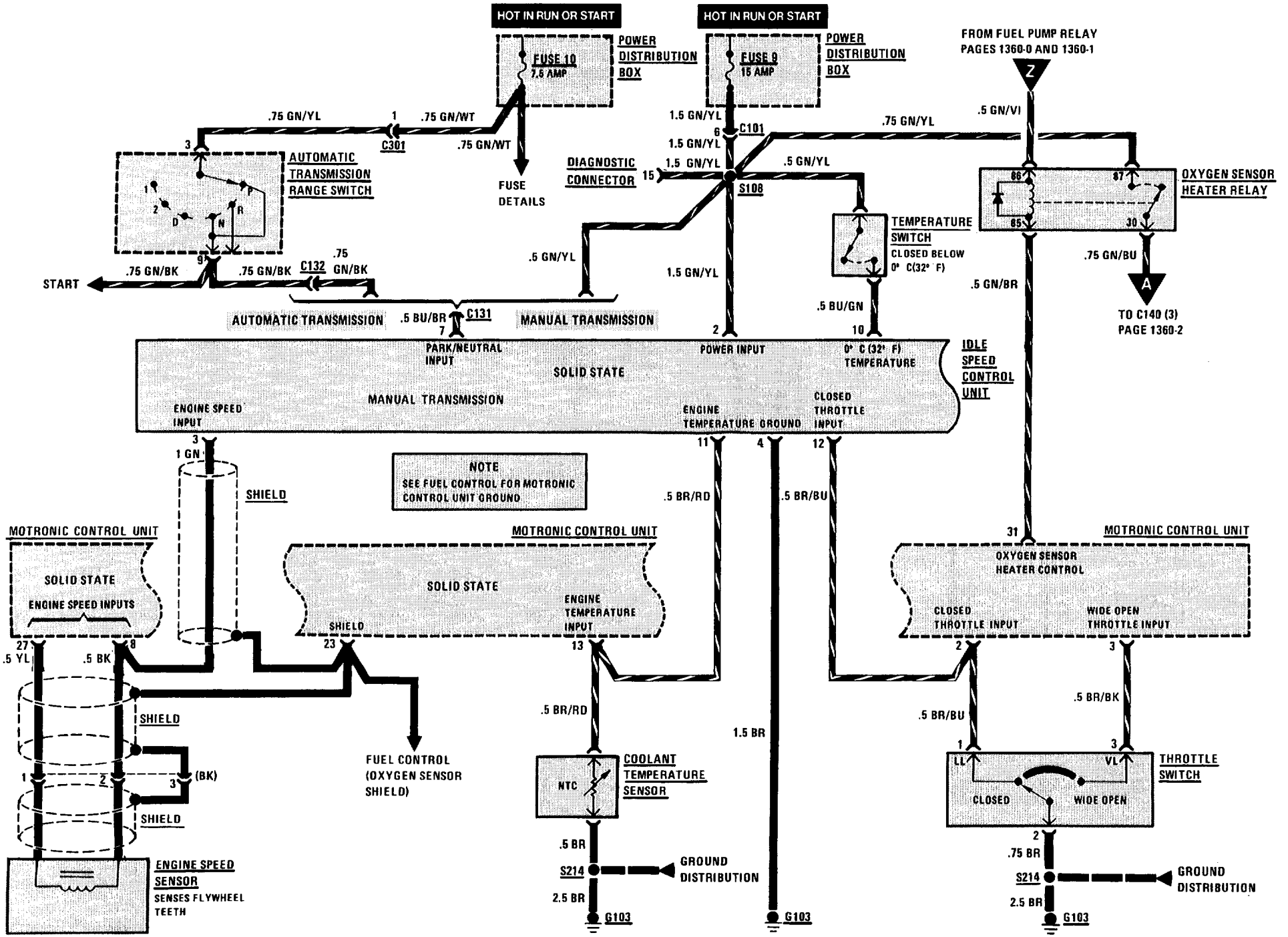


FUEL DELIVERY WITH MULTI-FUNCTION CLOCK

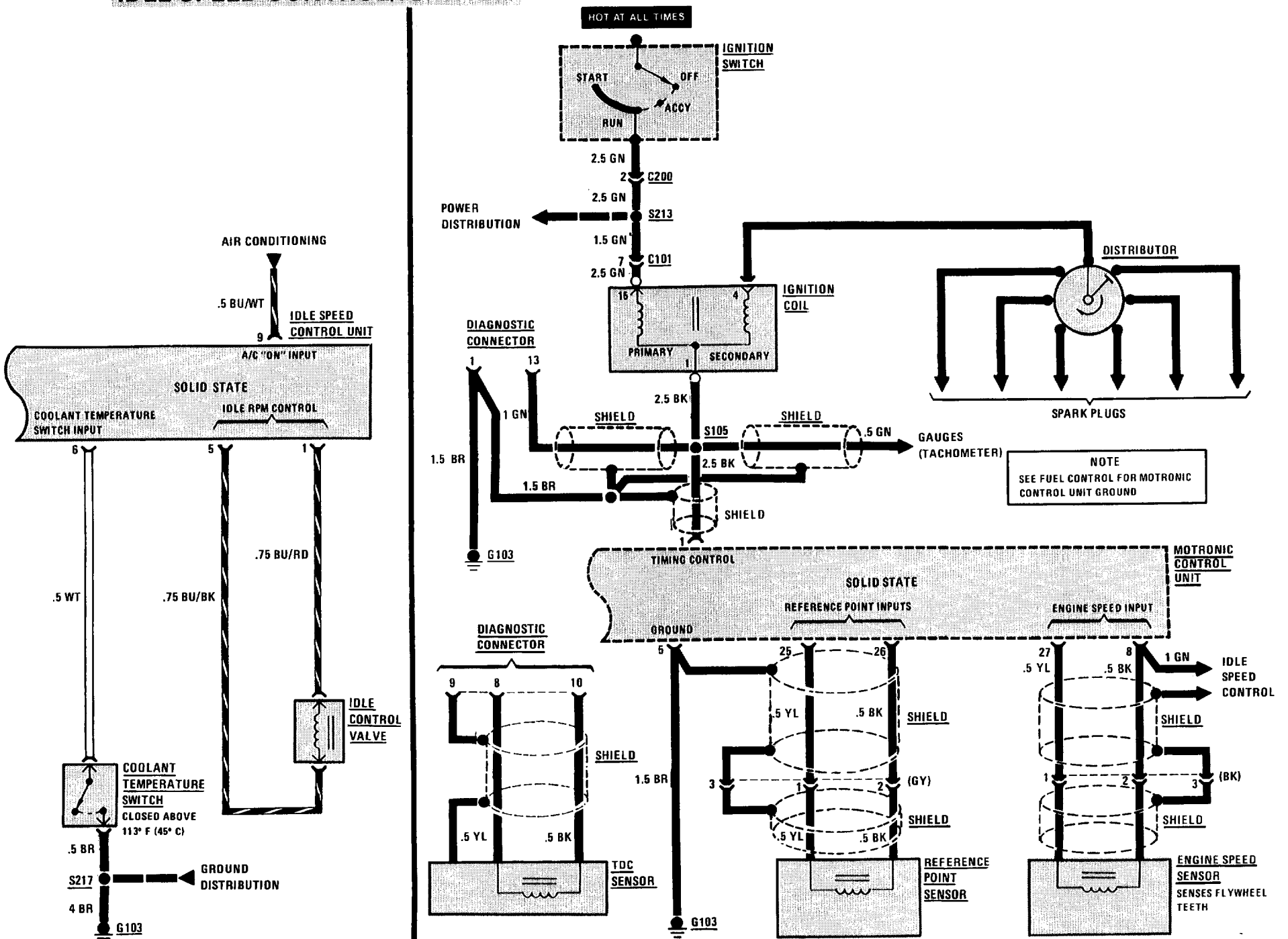



FUEL DELIVERY
CONTINUED FROM PAGES 1360-0 AND 1360-1
B
4 RD/WT
S112
FUEL INJECTORS
.5 RD/WT
NO. 1
NO. 2
NO. 3
NO. 4
NO. 5
NO. 6
.5 BR/WT
.5 BR/YL
S104
S106
1.5 BR/WT
1.5 BR/YL
GAUGES (FUEL ECONOMY)
.5 WT
BAROMETRIC PRESSURE SENSOR
.5 BR
.5 WT
S214
2.5 BR
G103
GROUND DISTRIBUTION
AIR FLOW METER
DO NOT MEASURE RESISTANCE AT TERMINAL 9
LIGHT LOAD
INCREASING AIR FLOW
FULL LOAD
NTC
INLET TEMPERATURE
.5 GY/VI
.75 GY/BU
.5 GY/WT
.5 GY/YL
MOTRONIC CONTROL UNIT
SOLID STATE
FUEL INJECTORS CONTROL 1, 2 AND 3
PRESENT FUEL RATE OUTPUT
FUEL INJECTORS CONTROL 4, 5 AND 6
BAROMETRIC PRESSURE INPUT
AIR INLET TEMPERATURE
COMMON
AIR FLOW INPUT
REFERENCE OUTPUT
SHIELD
OXYGEN SENSOR INPUT
GROUNDS
REFERENCE POINT INPUTS
ENGINE SPEED INPUTS
FROM OXYGEN SENSOR HEATER RELAY PAGE 1360-3
A
.75 GN/BU
IDLE SPEED CONTROL
1 GN/BU
WHT
(COAXIAL)
1 GN
BK
OXYGEN SENSOR
SENSOR
HEATER
1 BR
.75 BR
2.5 BR
.75 BR
1.5 BR
4 BR
S217
.5 YL
.5 BK
(GY)
(BK)
REFERENCE POINT SENSOR
ENGINE SPEED SENSOR
SENSES FLYWHEEL TEETH
16N
IGN IDLE SPEED CONTROL ON NEXT PAGE
MOTRONIC CONTROL UNIT HARNESS CONNECTOR VIEW

IDLE SPEED CONTROL

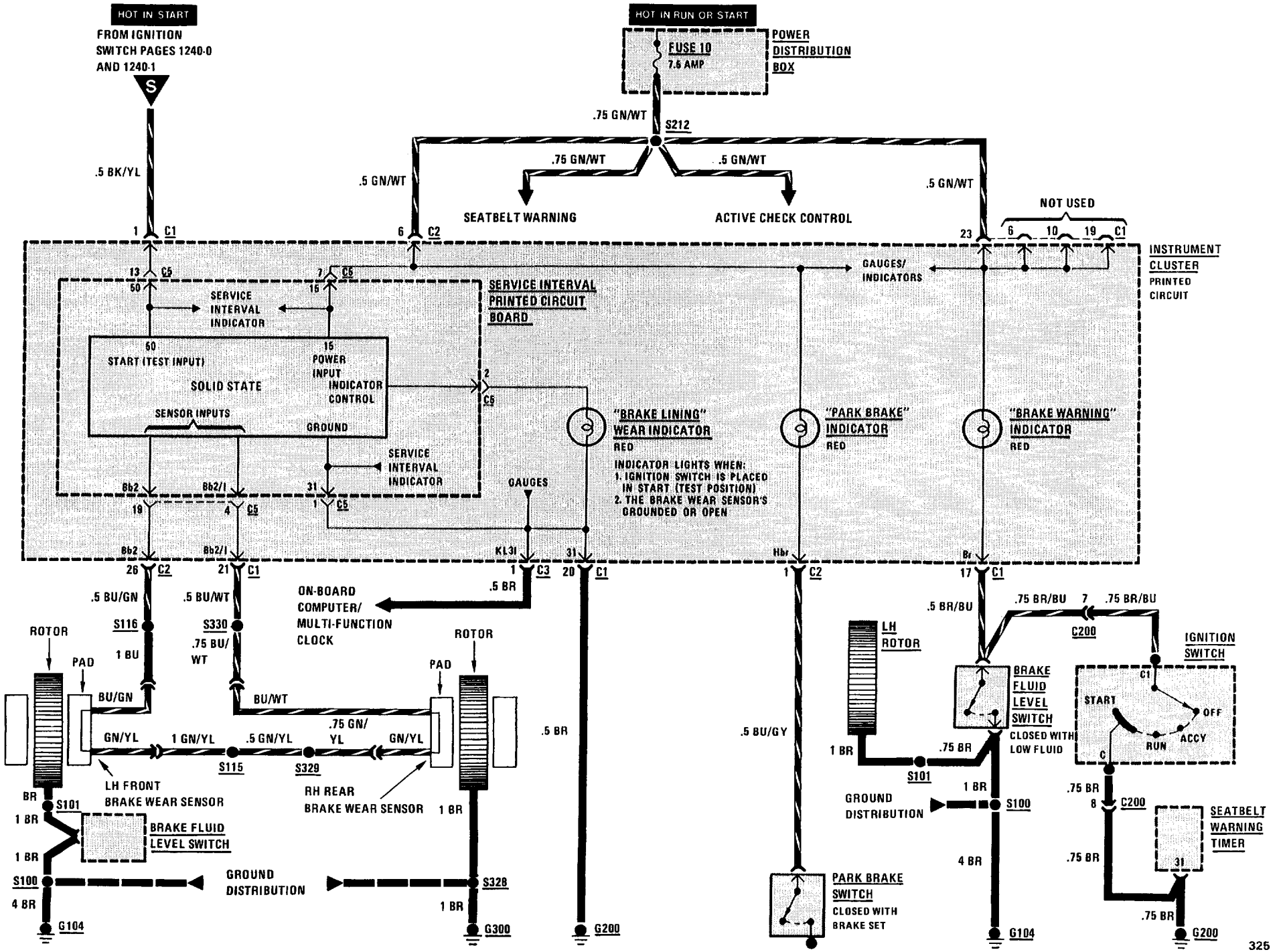


IDLE SPEED CONTROL/IGNITION

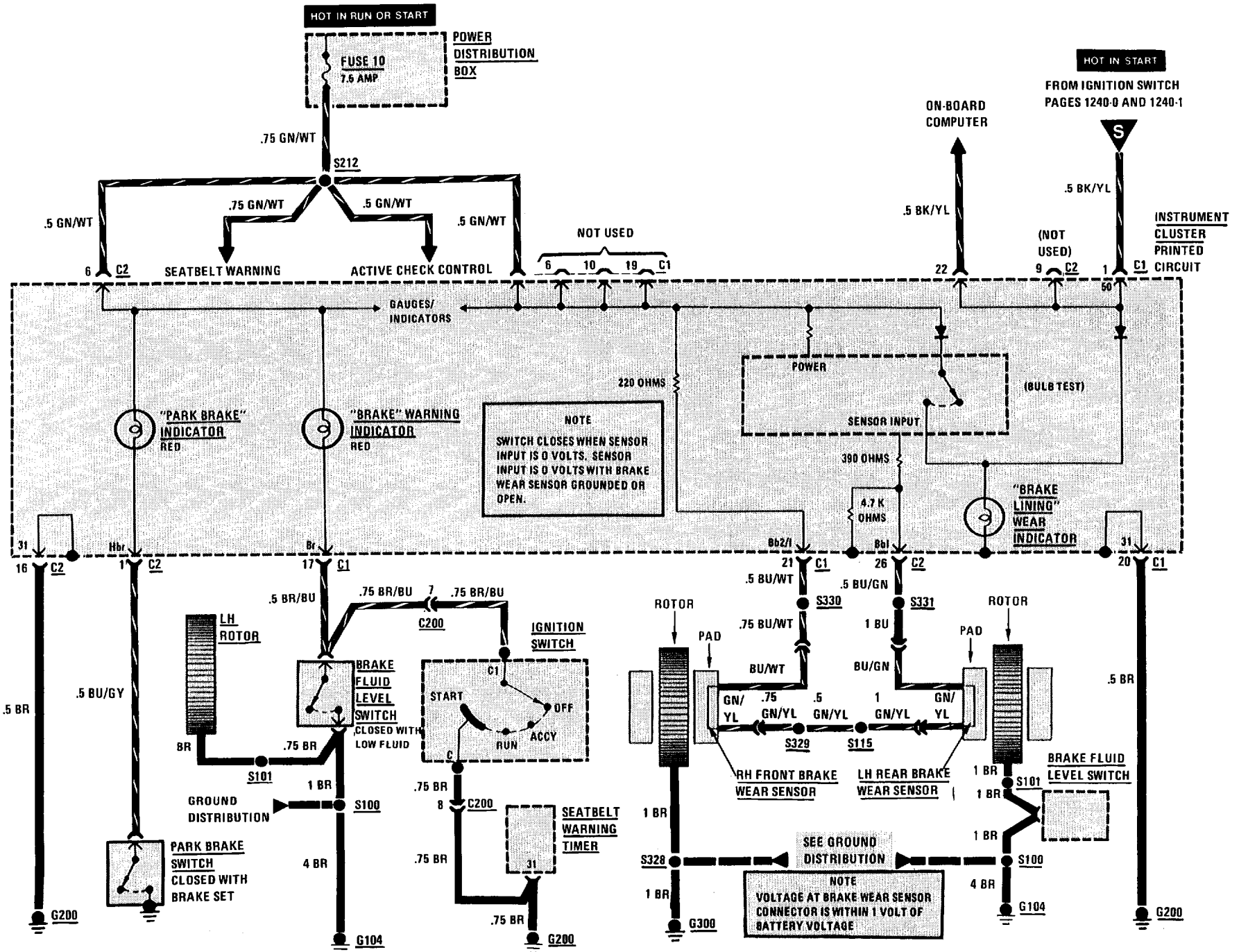


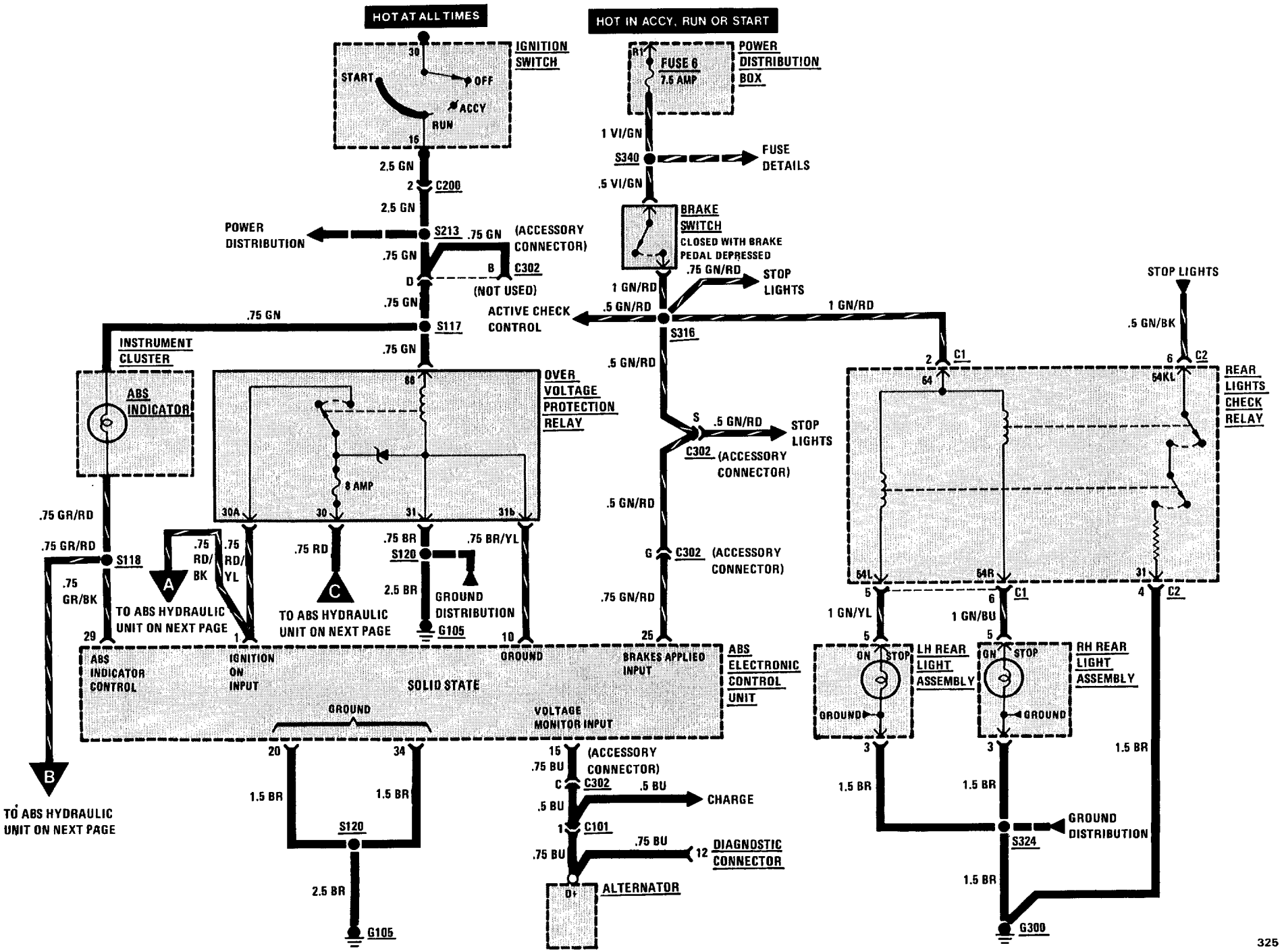
3435-0 BRAKE WARNING SYSTEM

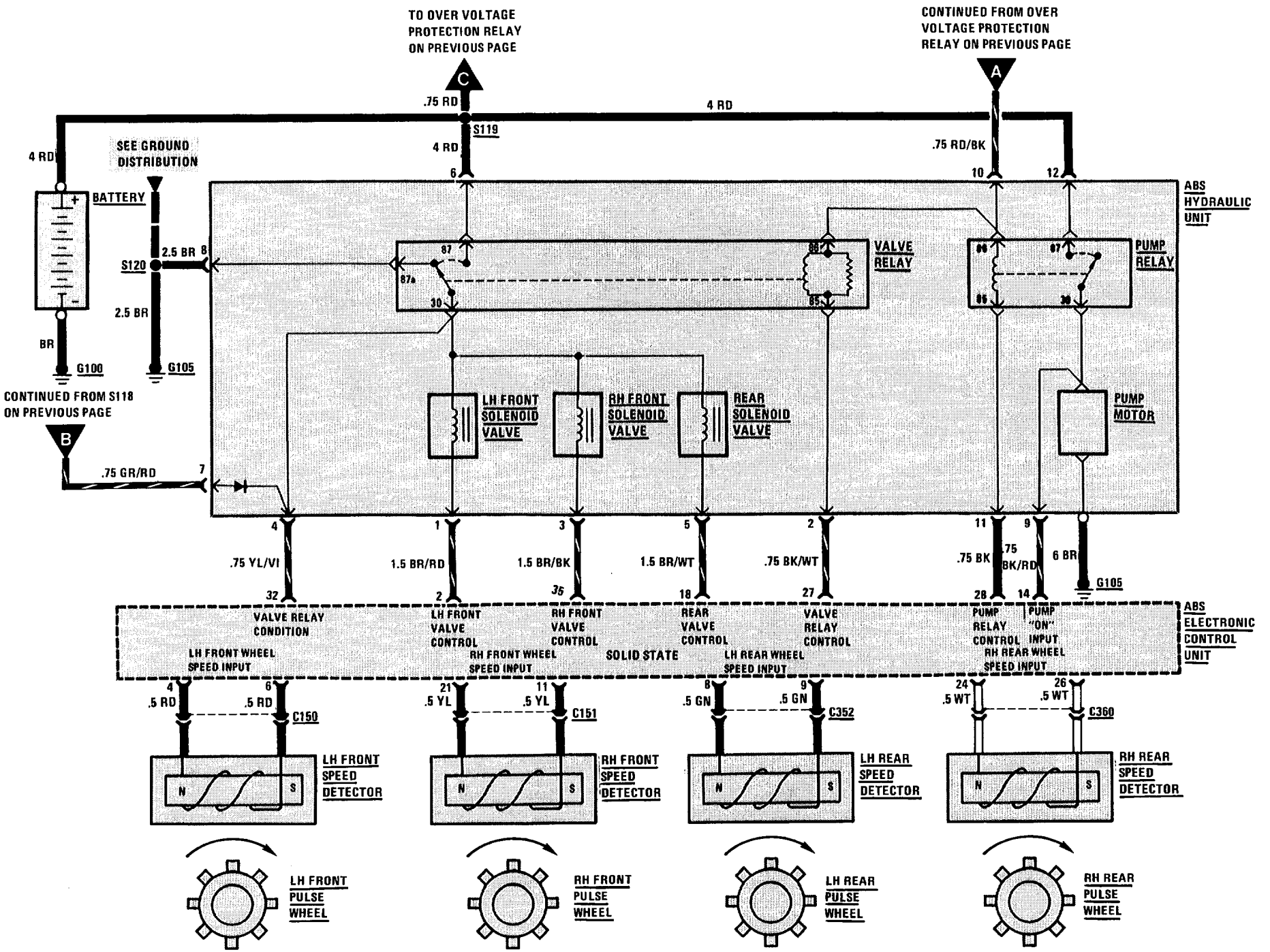
EARLY PRODUCTION

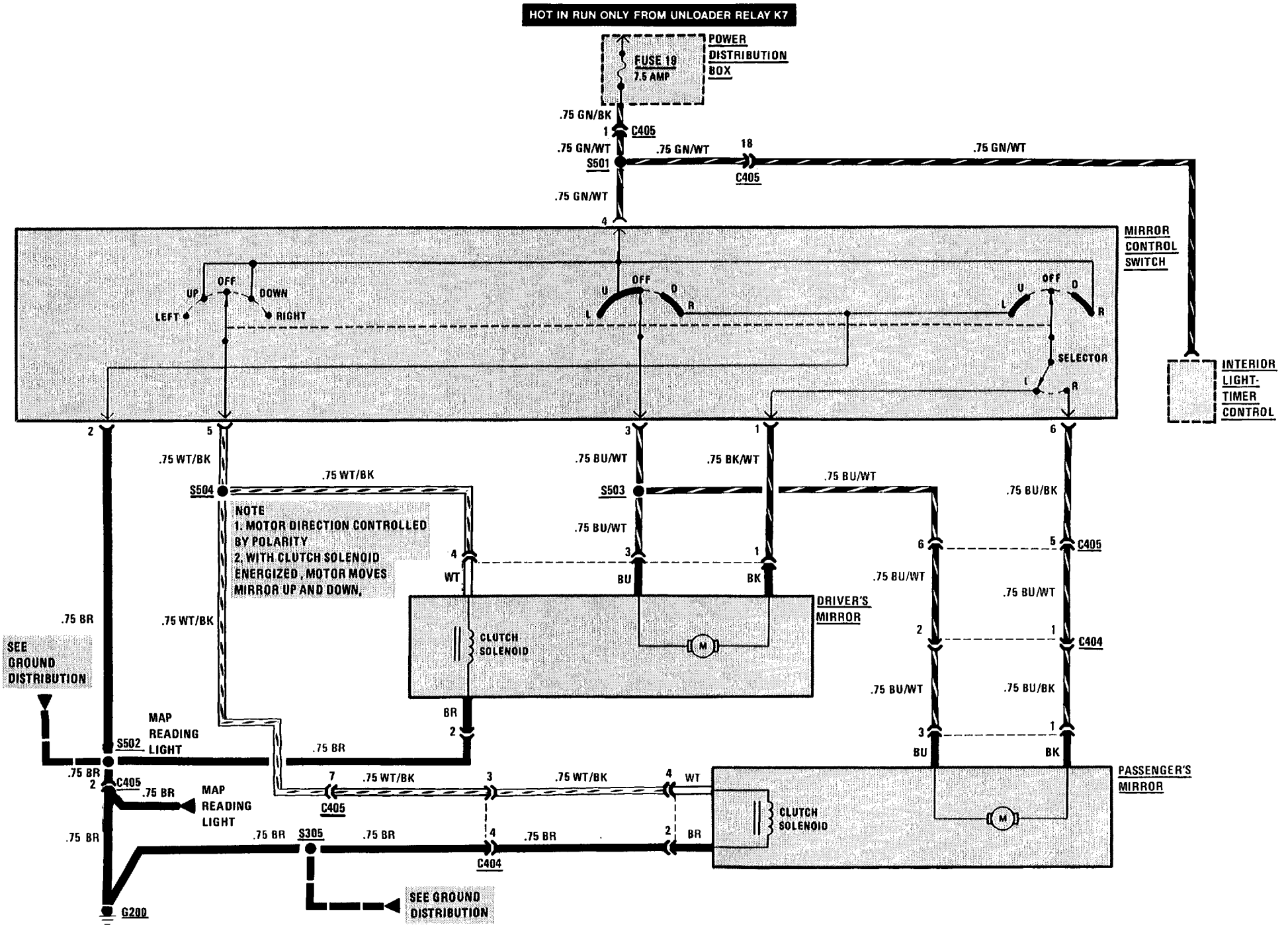


LATE PRODUCTION

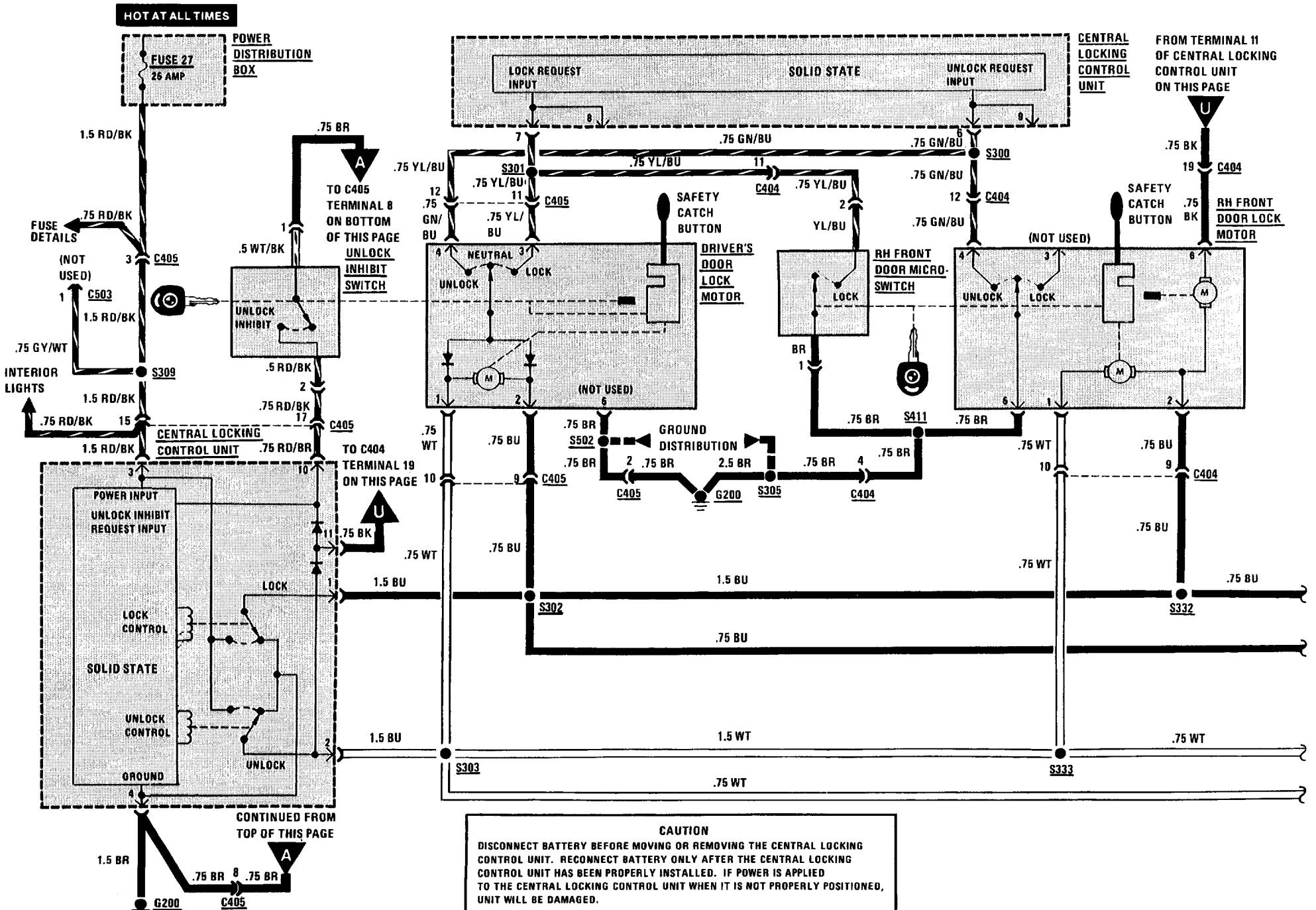



HOT AT ALL TIMES
HOT IN ACCY, RUN OR START
IGNITION SWITCH
START
OFF
ACCY
RUN
30
16
POWER DISTRIBUTION BOX
FUSE 6
7.5 AMP
1 VI/GN
S340
FUSE DETAILS
.5 VI/GN
BRAKE SWITCH
CLOSED WITH BRAKE PEDAL DEPRESSED
2.5 GN
C200
POWER DISTRIBUTION
S213
.75 GN
(ACCESSORY CONNECTOR)
C302
(NOT USED)
.75 GN/RD
STOP LIGHTS
1 GN/RD
.5 GN/RD
ACTIVE CHECK CONTROL
S117
S316
INSTRUMENT CLUSTER
ABS INDICATOR
OVER VOLTAGE PROTECTION RELAY
86
8 AMP
30A
30
31
31b
.5 GN/BK
STOP LIGHTS
REAR LIGHTS CHECK RELAY
64
64KL
64L
64R
.75 GR/RD
S118
.75 RD/BK
.75 RD/YL
.75 RD
.75 BR
S120
.75 BR/YL
2.5 BR
GROUND DISTRIBUTION
G105
TO ABS HYDRAULIC UNIT ON NEXT PAGE
.75 GR/BK
A
B
C
ABS ELECTRONIC CONTROL UNIT
ABS INDICATOR CONTROL
IGNITION ON INPUT
SOLID STATE
GROUND
VOLTAGE MONITOR INPUT
BRAKES APPLIED INPUT
1 GN/YL
1 GN/BU
LH REAR LIGHT ASSEMBLY
RH REAR LIGHT ASSEMBLY
ON
STOP
1.5 BR
S324
G300
(ACCESSORY CONNECTOR)
.75 BU
.5 BU
CHARGE
C101
DIAGNOSTIC CONNECTOR
ALTERNATOR
D+

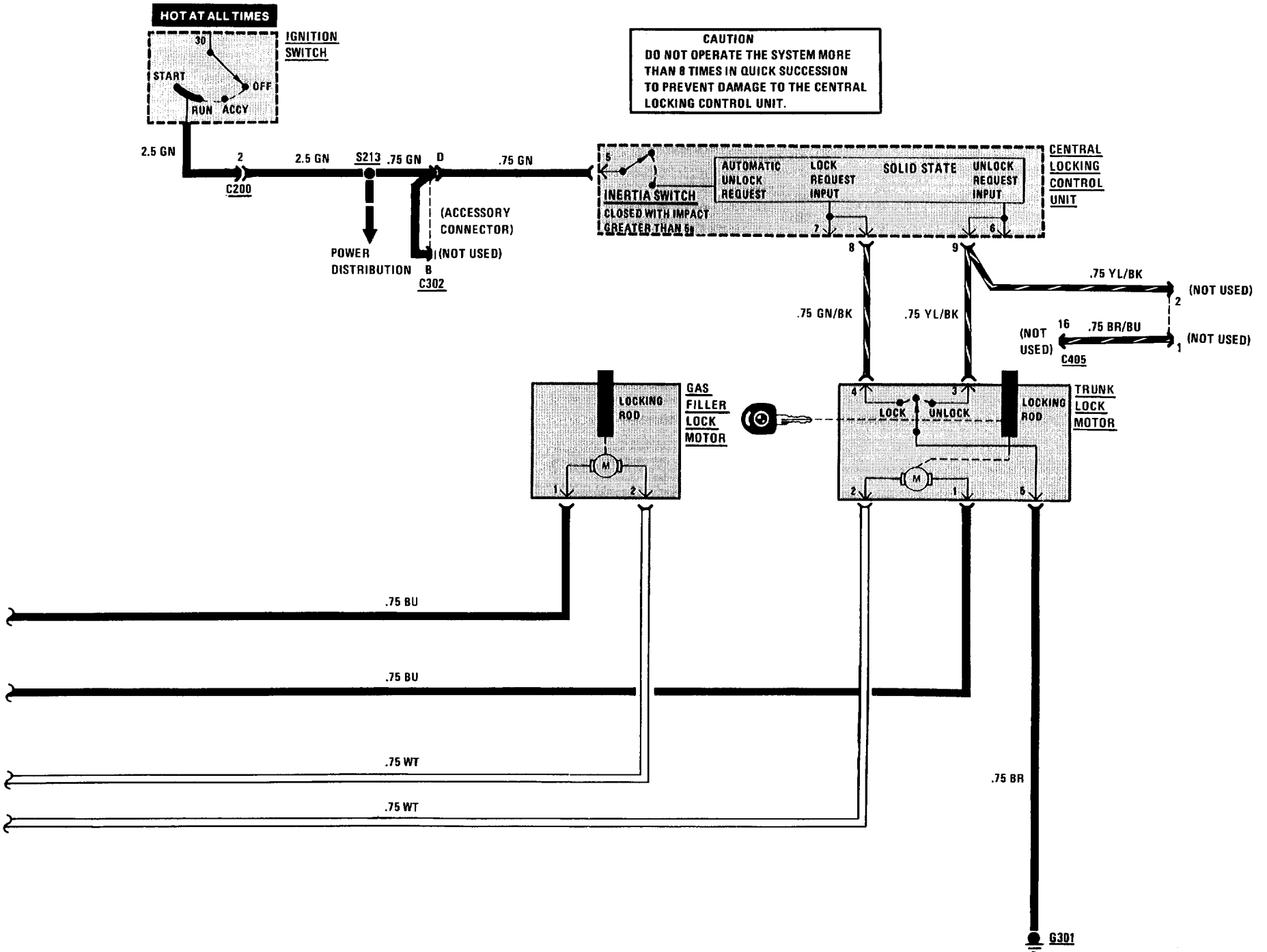

TO OVER VOLTAGE PROTECTION RELAY ON PREVIOUS PAGE
CONTINUED FROM OVER VOLTAGE PROTECTION RELAY ON PREVIOUS PAGE
C
A
.75 RD
4 RD
S119
4 RD
.75 RD/BK
SEE GROUND DISTRIBUTION
4 RD
BATTERY
2.5 BR
S120
2.5 BR
BR
G100
G105
CONTINUED FROM S118 ON PREVIOUS PAGE
B
.75 GR/RD
ABS HYDRAULIC UNIT
VALVE RELAY
PUMP RELAY
LH FRONT SOLENOID VALVE
RH FRONT SOLENOID VALVE
REAR SOLENOID VALVE
PUMP MOTOR
.75 YL/VI
1.5 BR/RD
1.5 BR/BK
1.5 BR/WT
.75 BK/WT
.75 BK
.75 BK/RD
6 BR
G105
ABS ELECTRONIC CONTROL UNIT
VALVE RELAY CONDITION
LH FRONT WHEEL SPEED INPUT
LH FRONT VALVE CONTROL
RH FRONT VALVE CONTROL
RH FRONT WHEEL SPEED INPUT
SOLID STATE
REAR VALVE CONTROL
LH REAR WHEEL SPEED INPUT
VALVE RELAY CONTROL
PUMP RELAY CONTROL
PUMP "ON" INPUT
RH REAR WHEEL SPEED INPUT
.5 RD
.5 RD
C150
.5 YL
.5 YL
C151
.5 GN
.5 GN
C352
.5 WT
.5 WT
C360
LH FRONT SPEED DETECTOR
RH FRONT SPEED DETECTOR
LH REAR SPEED DETECTOR
RH REAR SPEED DETECTOR
LH FRONT PULSE WHEEL
RH FRONT PULSE WHEEL
LH REAR PULSE WHEEL
RH REAR PULSE WHEEL


HOT IN RUN ONLY FROM UNLOADER RELAY K7
FUSE 19
7.5 AMP
POWER DISTRIBUTION BOX
.75 GN/BK
1
C405
.75 GN/WT
S501
.75 GN/WT
18
C405
.75 GN/WT
.75 GN/WT
4
MIRROR CONTROL SWITCH
UP
OFF
DOWN
LEFT
RIGHT
U
OFF
D
L
R
SELECTOR
INTERIOR LIGHT-TIMER CONTROL
2
5
3
1
6
.75 WT/BK
.75 WT/BK
S504
.75 BU/WT
.75 BK/WT
S503
.75 BU/WT
.75 BU/BK
NOTE
1. MOTOR DIRECTION CONTROLLED BY POLARITY
2. WITH CLUTCH SOLENOID ENERGIZED, MOTOR MOVES MIRROR UP AND DOWN.
4
3
1
WT
BU
BK
.75 BU/WT
6
5
C405
.75 BU/WT
DRIVER'S MIRROR
CLUTCH SOLENOID
M
.75 BR
.75 WT/BK
SEE GROUND DISTRIBUTION
2
1
C404
.75 BU/WT
.75 BU/BK
BR
2
3
1
MAP READING LIGHT
S502
.75 BR
BU
BK
.75 BR
2
C405
.75 BR
MAP READING LIGHT
7
.75 WT/BK
3
.75 WT/BK
4
WT
PASSENGER'S MIRROR
C405
CLUTCH SOLENOID
M
.75 BR
.75 BR
S305
.75 BR
4
.75 BR
2
BR
C404
SEE GROUND DISTRIBUTION
G200

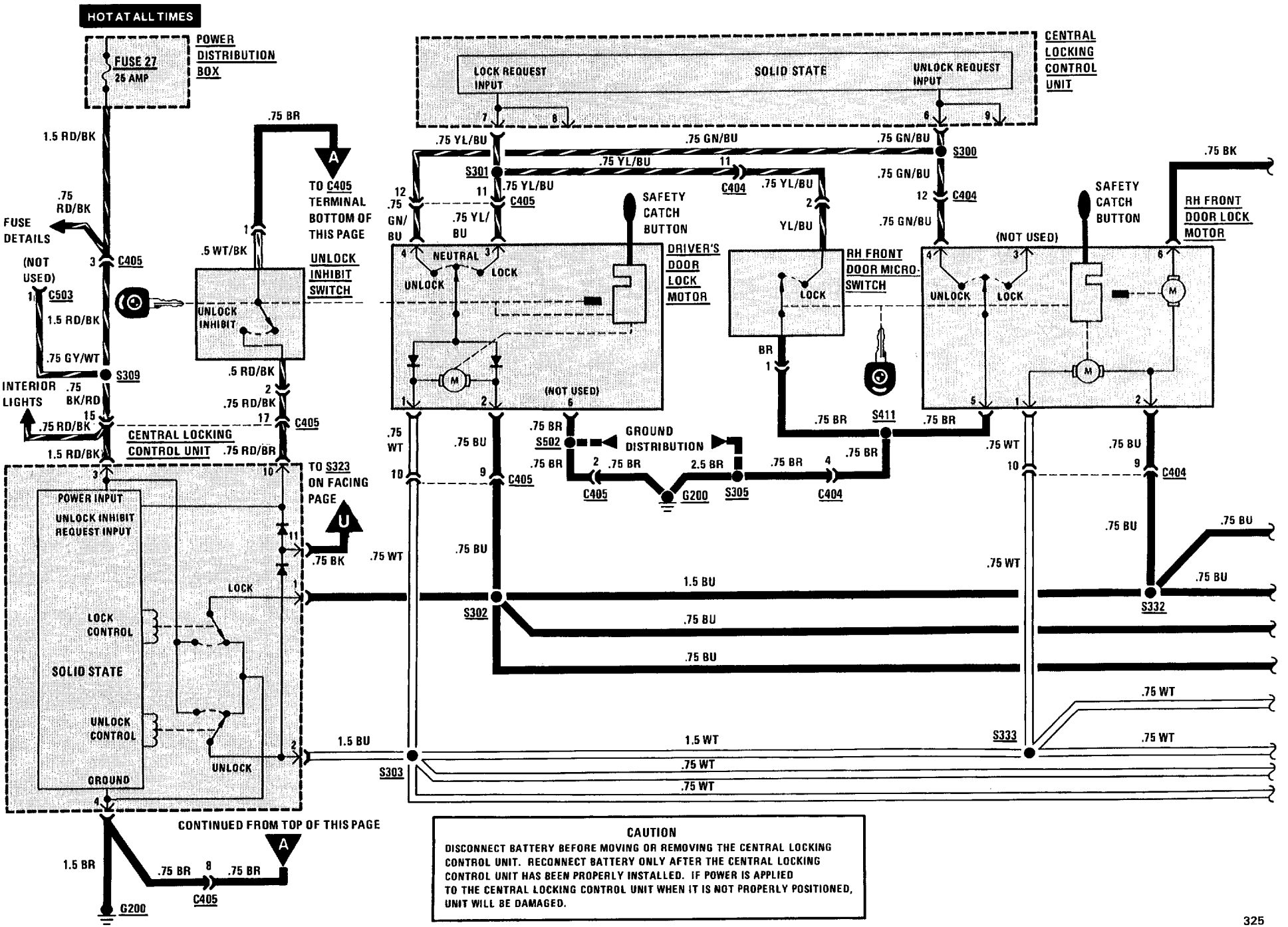
2 DOOR (SELECT)



2 DOOR (CONTROL)



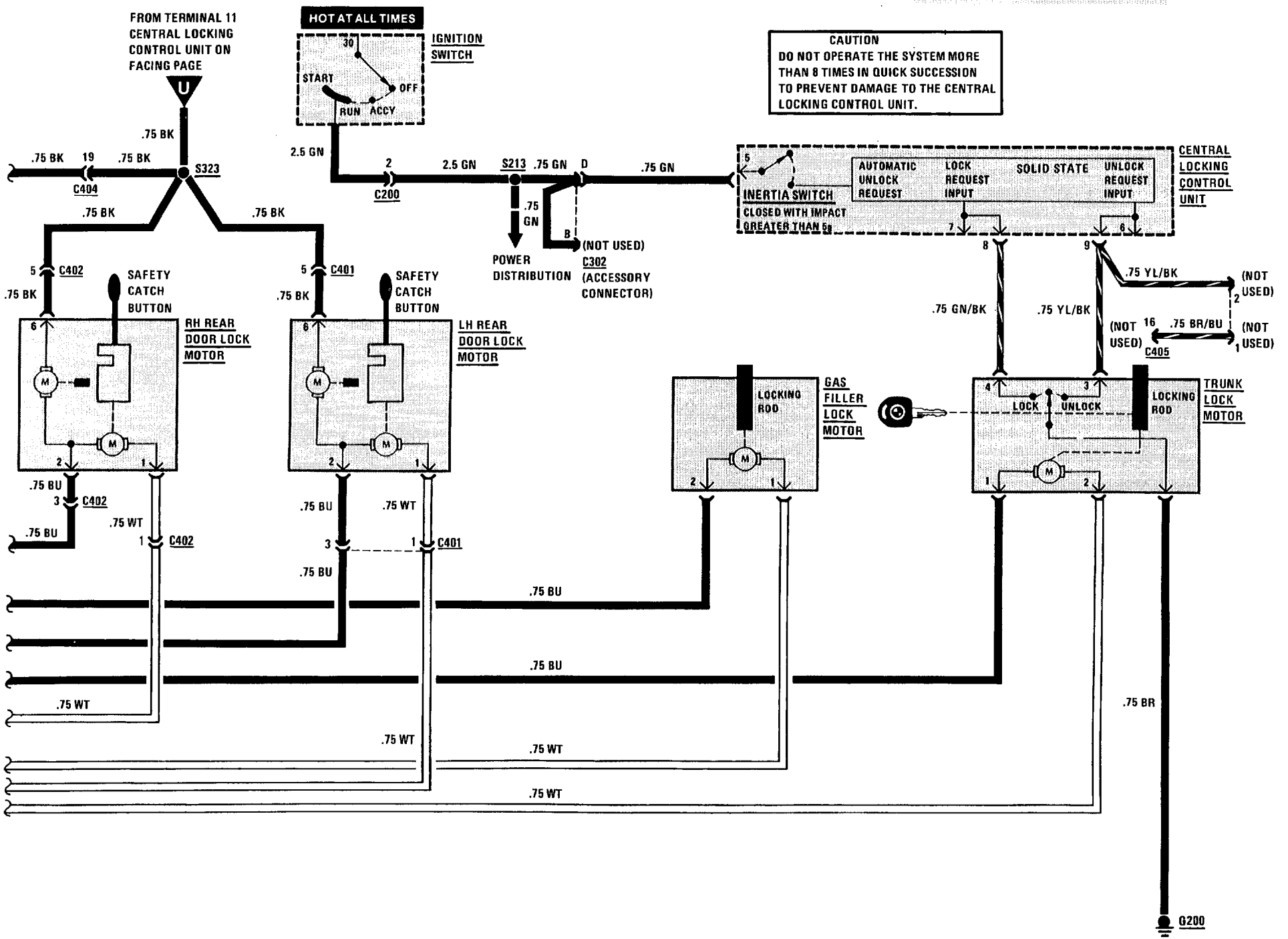
4 DOOR (SELECT)



CAUTION

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

4 DOOR (CONTROL)



TROUBLESHOOTING HINTS

- **Try the following check before doing the System Check.**

  Check Fuse 27 by operating the On-Board Computer.

- **Go to System Check for a guide to normal operation.**
- **Go to System Diagnosis for diagnostic tests.**

SYSTEM CHECK

- **Operate the controls in the sequence listed in the System Check Table.**
- **Refer to the Repair Action for the Response received. Tests follow in the System Diagnosis.**
- **After any repair, repeat the System Check to verify proper system operation.**

NOTE: Before replacing any system component, check all the connectors, splices and wiring to that component.

SYSTEM CHECK TABLE

OPERATION	RESPONSE	REPAIR ACTION
1. Insert the key in the Driver's door and turn to LOCK	All doors lock	None, proceed to Operation 2.
	Some doors lock	Repair/replace the suspect Door Lock Motor circuit.
	No doors lock	Proceed to Operation 4.
2. Turn the key to UNLOCK INHIBIT (clockwise until key is horizontal)	All doors double lock (Safety Catch Buttons cannot be pulled up by hand)	None, proceed to Operation 3.
	Driver's door double locks and only some of the other doors double lock	Repair/replace the suspect Door Lock Motor(s).
	Driver's door double locks but all the other doors do not double lock	Perform Test B.
	Driver's door does not double lock	Mechanical problem, see BMW Troubleshooting Manual.

SYSTEM CHECK TABLE (CONT'D)

OPERATION	RESPONSE	REPAIR ACTION
3. Turn the key to UNLOCK	All doors unlock	None, proceed to Operation 4.
	Some doors unlock	Repair/replace the suspect Door Lock Motor circuit
	No doors unlock	Proceed to Operation 5
4. Insert the key in the Passenger's door and turn to LOCK	All doors lock	If the doors did not lock in Operation 1, repair/ replace the Driver's Door Lock Switch, otherwise proceed to Operation 5
	Some doors lock	Repair/replace the suspect Door Lock Motor circuit
	No doors lock	If all the doors locked in Operation 1, repair/ replace the Right Front Door Microswitch. If the doors did not lock in Operation 1, perform Test A
5. Insert the key in the Passenger's door and turn to UNLOCK	All doors unlock	If all the doors did not unlock in Operation 3, repair/replace the Driver's Door Lock Switch, otherwise proceed to Operation 6
	Some doors unlock	Repair/replace the suspect Door Lock Motor
	No doors unlock	If all the doors unlocked in Operation 3, repair/ replace the Passenger's Door Lock Switch. If the doors did not unlock in Operation 3, perform Test C
6. Get in the car and close and lock all doors Turn the Ignition Switch to RUN	Doors remain locked	None, proceed to Operation 7
	Doors unlock	Repair/replace the Central Locking Control Unit
7. Get out of the car Insert the key in the Driver's door and turn to LOCK Unlock each of the doors by pulling up the Safety Catch Buttons	All doors can be unlocked	None, proceed to Operation 8
	All doors remain secure	Disconnect the connector from the Central Locking Control Unit and check for a short to ground in the BK wires at terminal 11. • If short to ground is not present, replace the Central Locking Control Unit • If short to ground is present isolate the wiring from the Door Lock Motors one at a time to find the short

SYSTEM CHECK TABLE (CONT'D)

OPERATION	RESPONSE	REPAIR ACTION
8. Insert the key in the Trunk Cylinder Switch. Turn the key to LOCK	Trunk locks	None, proceed to Operation 9
	Trunk does not lock	If the doors lock, repair/replace the Trunk Lock Motor Circuit or Trunk Lock Motor If the doors do not lock, repair/replace the Trunk Switch
9. Turn the key to UNLOCK	Trunk unlocks	None, proceed to Operation 10
	Trunk does not unlock	If the doors unlock, repair/replace the Trunk Lock Motor circuit or Trunk Lock Motor. If the doors do not unlock, repair/replace the Trunk Switch. Repair/replace the Central Locking Control Unit if the Trunk Switch Circuit is OK
10. Turn the key back to LOCK	Gas Filler locks	None, proceed to Operation 11
	Gas Filler does not lock	Repair/replace the Gas Filler Lock Motor circuit
11. Turn the key to UNLOCK	Gas Filler unlocks	None
	Gas Filler does not unlock	Repair/replace the Gas Filler Lock Motor circuit

- **If all results are normal, the system is OK.**

SYSTEM DIAGNOSIS

- **Do the following tests below when directed by the System Check Table.**

A: CONTROL UNIT LOCK TEST (TABLE 1)

Measure: VOLTAGE
At: CONTROL UNIT CONNECTOR (Connected)

Measure Between	Correct Voltage	For Diagnosis
3 (RD/BK) & Ground	Battery	See 1
3 (RD/BK) & 4 (BR)	Battery	See 2

- If the voltages are correct, proceed to Table 2.

1. Check the RD/BK wire for an open.
2. Check the BR wire for an open to ground (see schematic).

A: CONTROL UNIT LOCK TEST (TABLE 2)

Connect: A FUSED JUMPER
At: CONTROL UNIT CONNECTOR (Connected)

Jumper Between	Correct Result	For Diagnosis
7 (YL/BU) & Ground	Doors lock	See 1

- If the result is correct, repair/replace the switches and related wiring (see schematic).

1. Proceed to Table 3.

A: CONTROL UNIT LOCK TEST (TABLE 3)

Connect: FUSED JUMPERS
At: CONTROL UNIT CONNECTOR
(Disconnected)

Jumper Between	Correct Result	For Diagnosis
1 (BU) & 3 (RD/BK) 2 (WT) & 4 (BR)	Doors lock	See 1

- If the result is correct, replace the Central Locking Control Unit.

1. Check the BU wire to splice S302 and the WT wire to splice S303 for opens (see schematic).

B: UNLOCK INHIBIT TEST

Connect: A FUSED JUMPER
At: CONTROL UNIT CONNECTOR
(Connected)

Jumper Between	Correct Result	For Diagnosis
10 (RD/BR) & Ground	Doors double lock	See 1

- If the result is correct, check the RD/BR, RD/BK, WT/BK, and BR wires for opens (see schematic). Replace the Unlock Inhibit Switch if the wires and connections are OK.

1. Check the BK wires for opens (see schematic). Replace the Central Locking Control Unit, if the wires and connections are OK.

C: CONTROL UNIT UNLOCK TEST

Connect: A FUSED JUMPER
At: CONTROL UNIT CONNECTOR
(Connected)

Jumper Between	Correct Result	For Diagnosis
6 (GN/BU) & Ground	Doors unlock	See 1

- If the result is correct, repair/replace the switches and related wiring (see schematic).

1. Replace the Central Locking Control Unit.

CIRCUIT DESCRIPTION

The Central Locking System is controlled by the Central Locking Control Unit. This unit senses when a lock switch is moved by a key, and sends the appropriate signal to drive the Motors. The Central Lock Control Unit controls the Door Locks, Gas Filler Lock and Trunk Lock. The unit also has an Inertia Switch which closes on impact greater than 5g. If in RUN or START the locks are then unlocked.

Lock

When the Key is inserted into a lock and turned clockwise, the Lock Switch moves to LOCK and grounds terminal 7 of the Central Locking Control Unit. The unit then activates the Lock Relay and applies voltage from Fuse 27 to the Lock Motor, which is grounded through the WT wire, Central Locking Control Unit and BR wire. The Lock Motor then pulls the lock down. The door locks also control the Trunk Lock and Gas Filler Lock.

Unlock

When the key is turned counterclockwise, terminal 6 of the Central Locking Control Unit is grounded through the Lock Switch. The Central Locking Control Unit then activates the Unlock Relay and applies voltage from Fuse 27, through the WT wire to the Lock Motor. The motor is grounded through the BU wire, Cental Locking Control Unit, and BR wire. The polarity is reversed and the motor pushes the lock up.

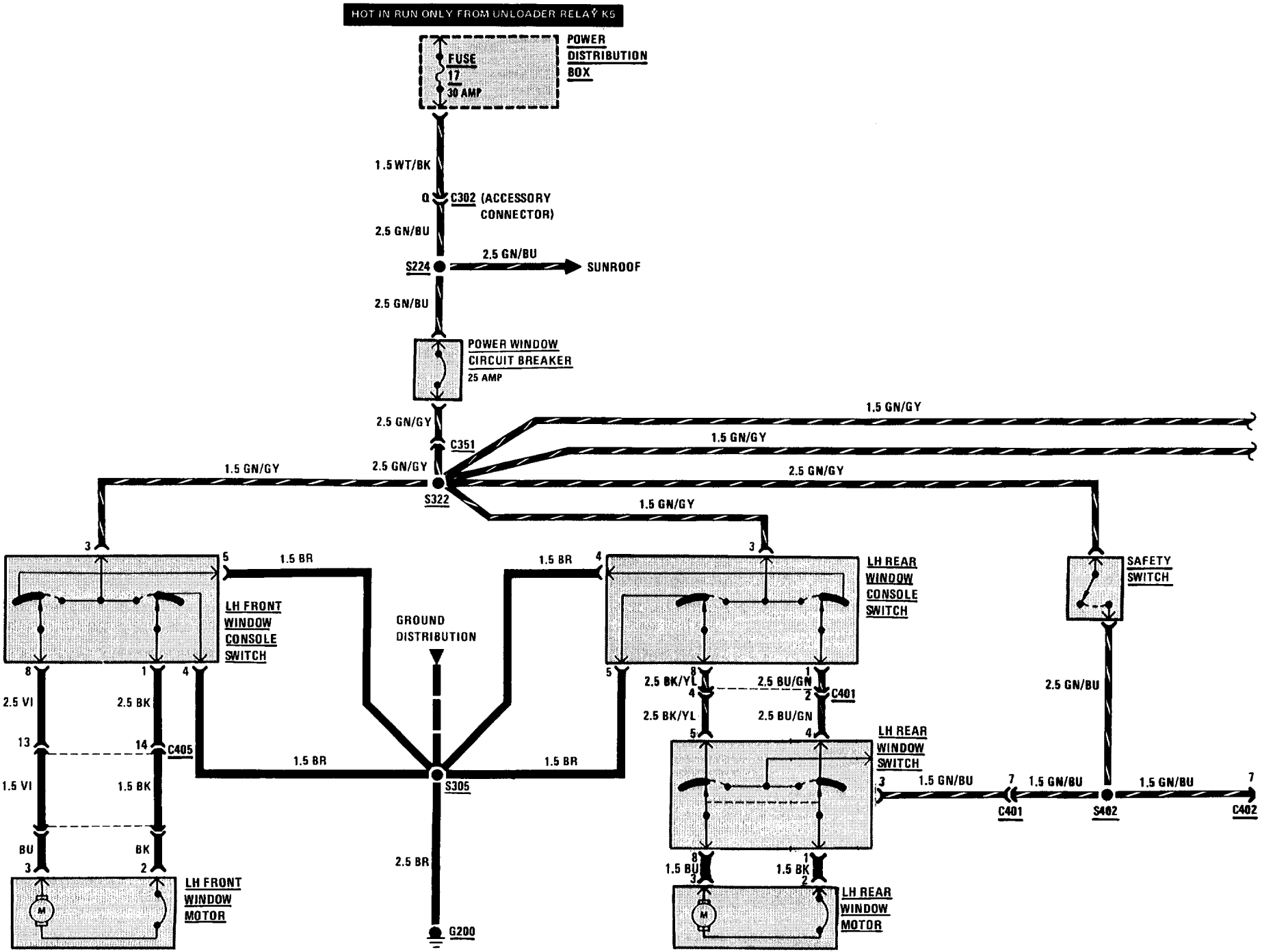
Unlock Inhibit

When the key is inserted into the Driver's Lock and turned clockwise past the LOCK position, the Unlock Inhibit mechanism is engaged. This mechanically inserts a bar into the Driver's Lock and prevents unlocking through use of the Safety Catch Button. When in the Unlock Inhibit position, ground is applied to the Unlock Inhibit Motors in the other lock units. The Central Locking Control Unit is grounded at terminal 10 and then activates the Lock Relay. Voltage is now applied to the Unlock Inhibit Motors through the BU wire. They are now activated and engage the other Unlock Inhibit mechanisms. The direction of the motors is reversed when the doors are unlocked (see Unlock).

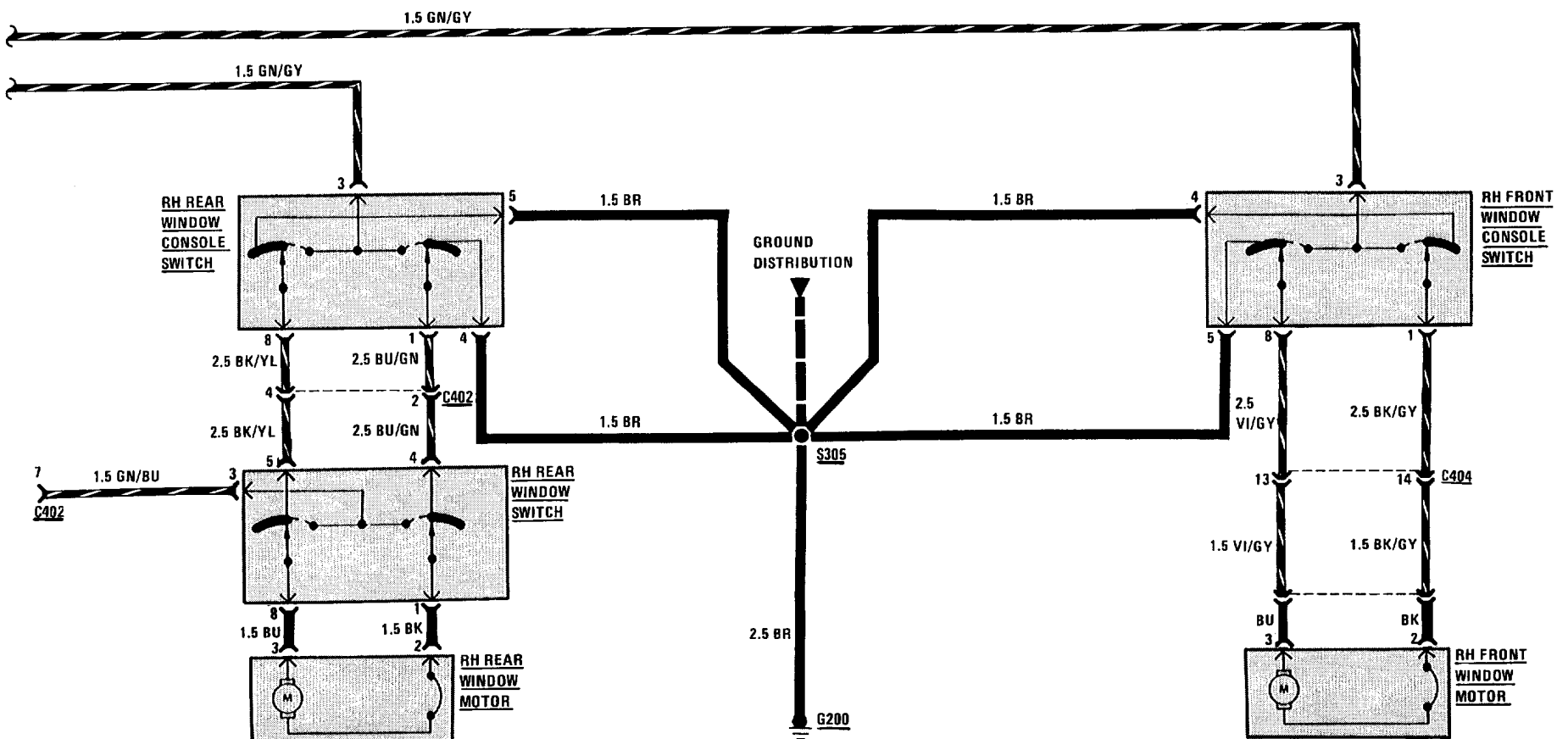
Trunk Lock

The Trunk Lock operates in a manner similar to the Door Locks.

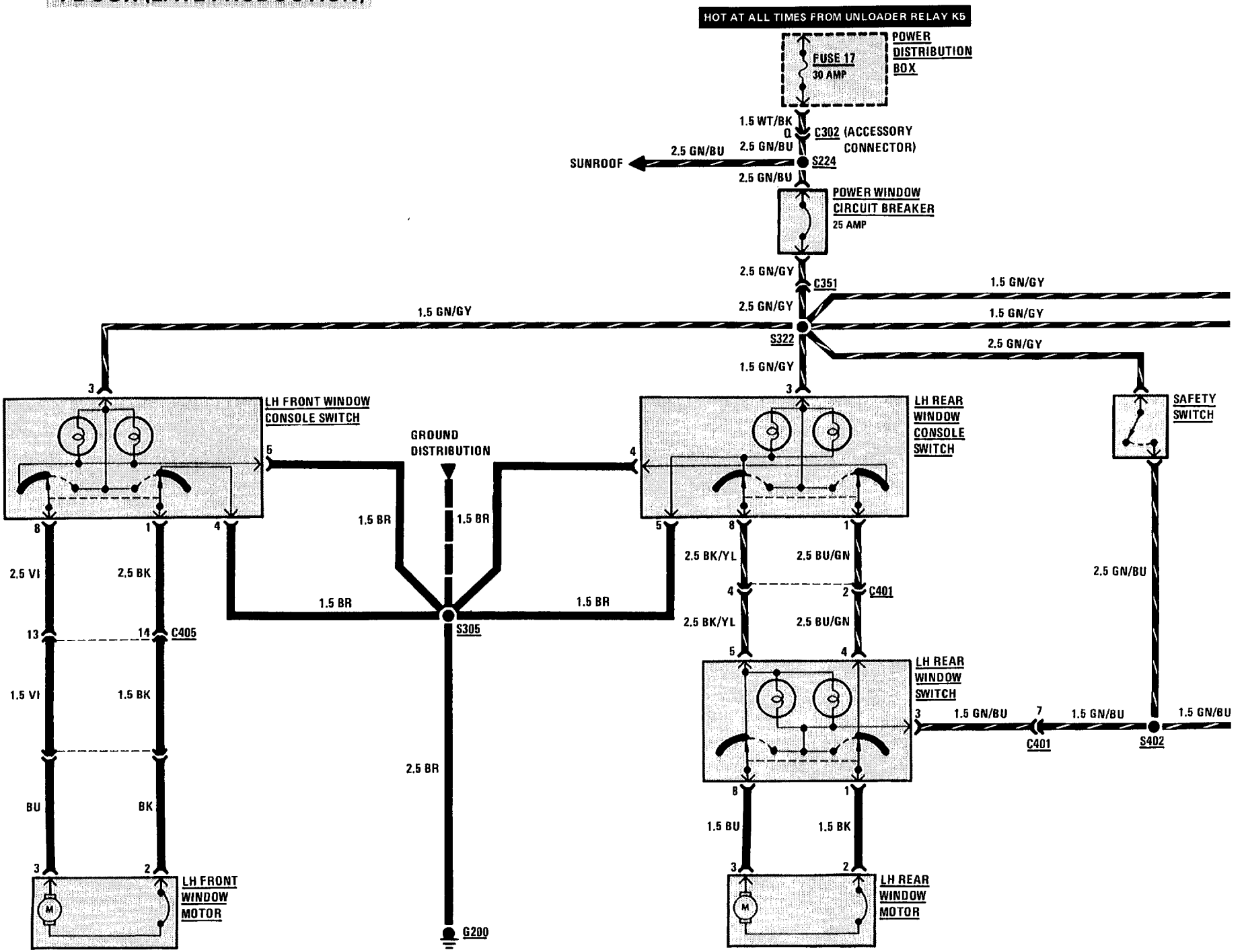
4 DOOR EARLY PRODUCTION



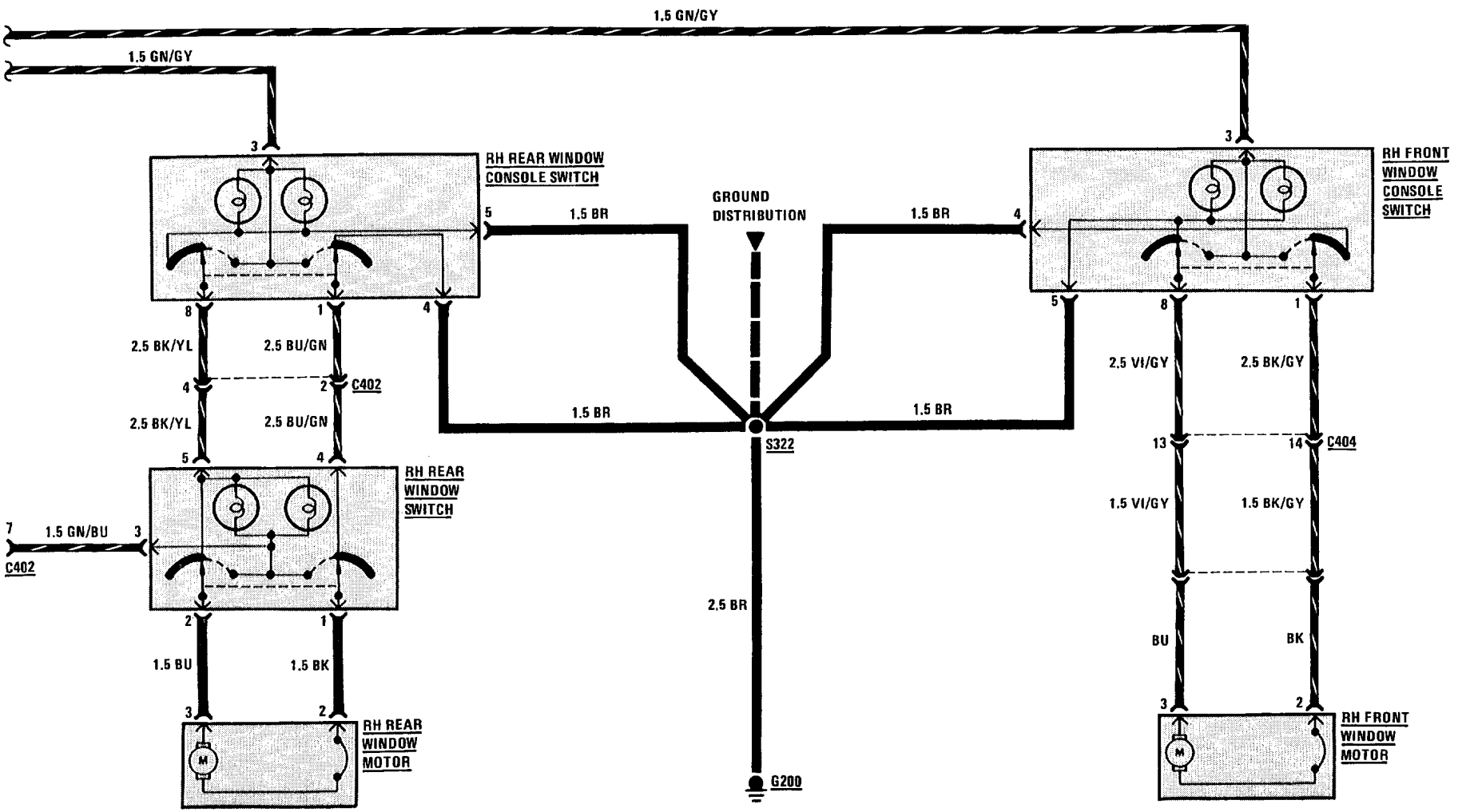
4 DOOR EARLY PRODUCTION



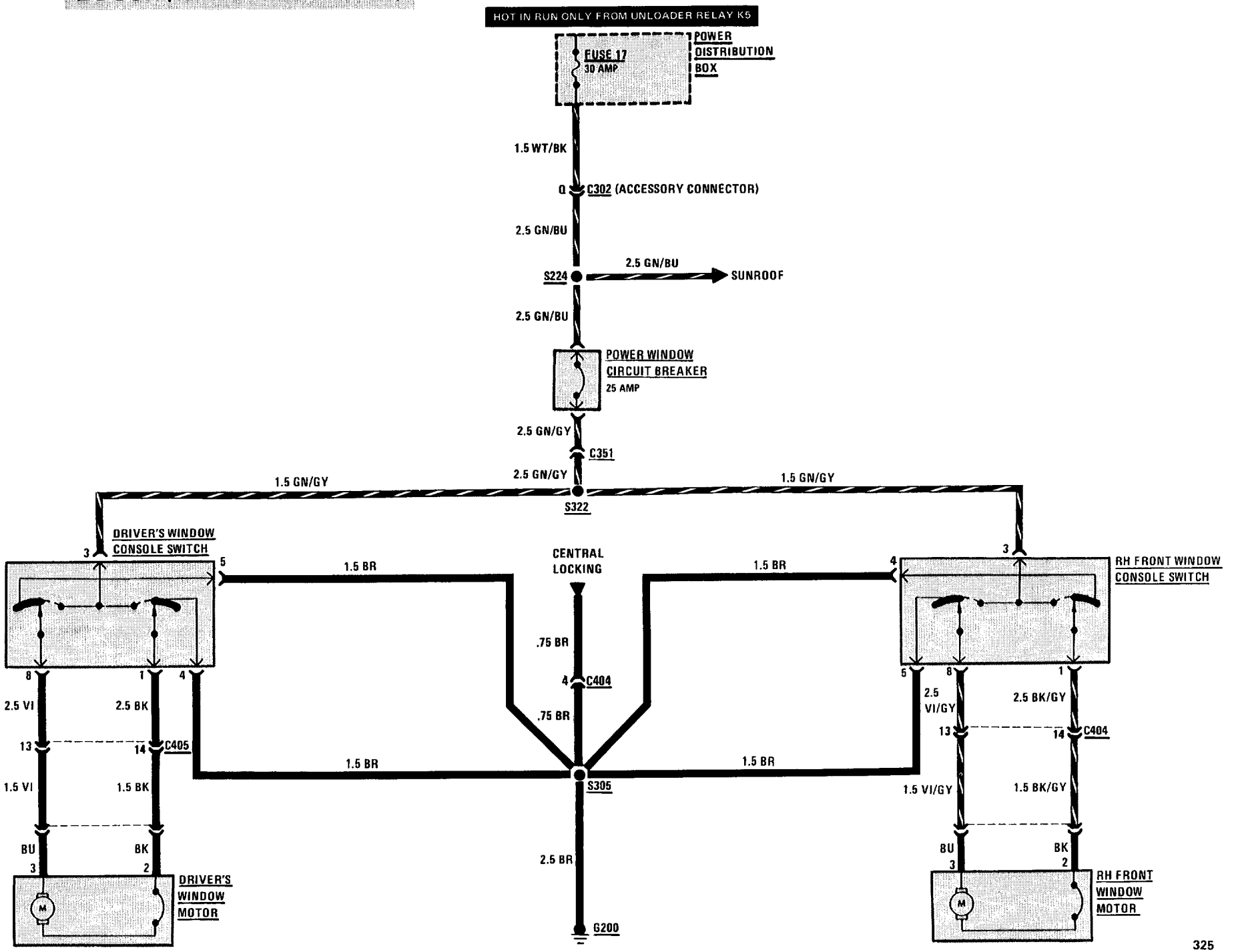
4 DOOR (LATE PRODUCTION)



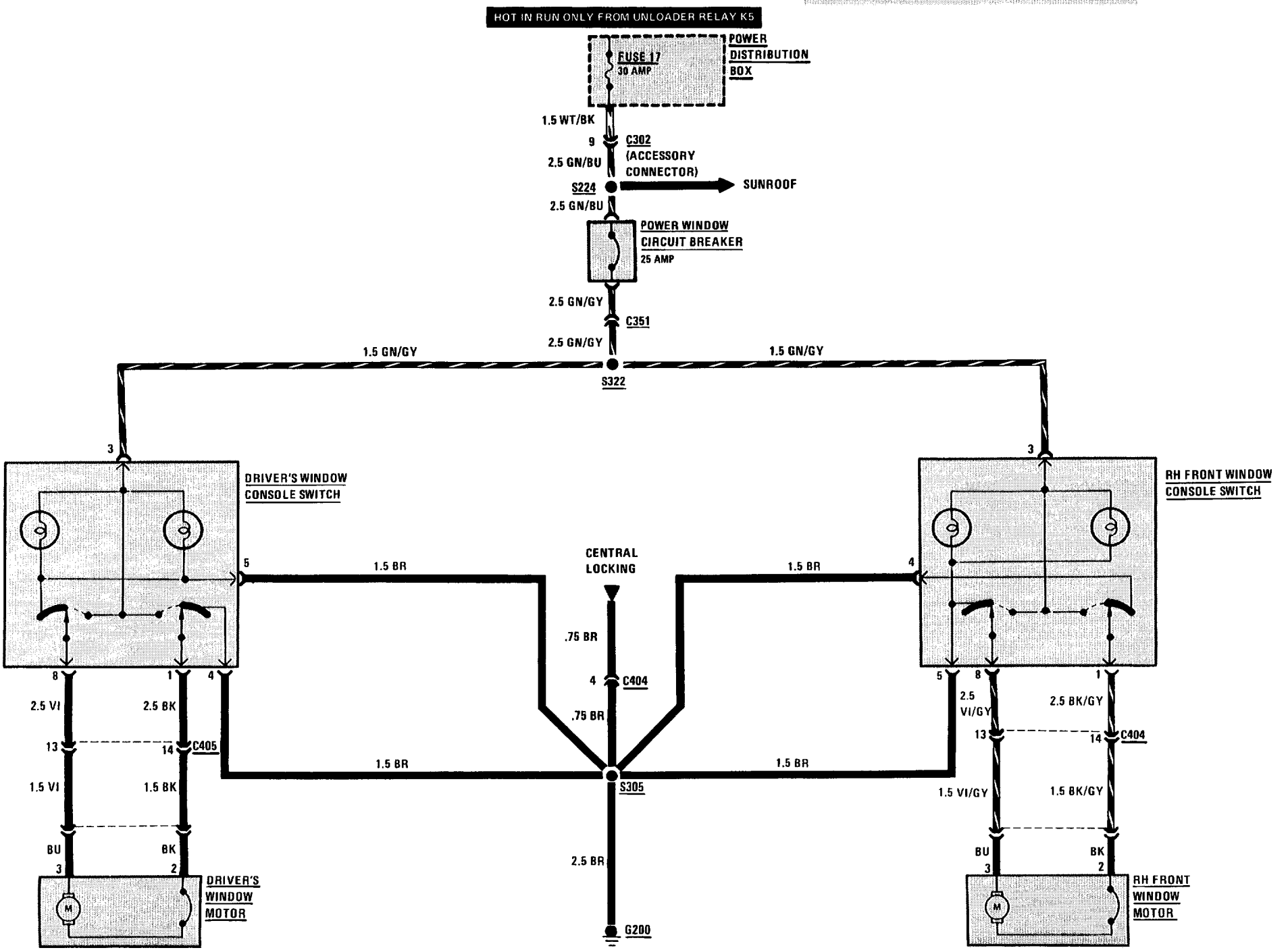
4 DOOR (LATE PRODUCTION)

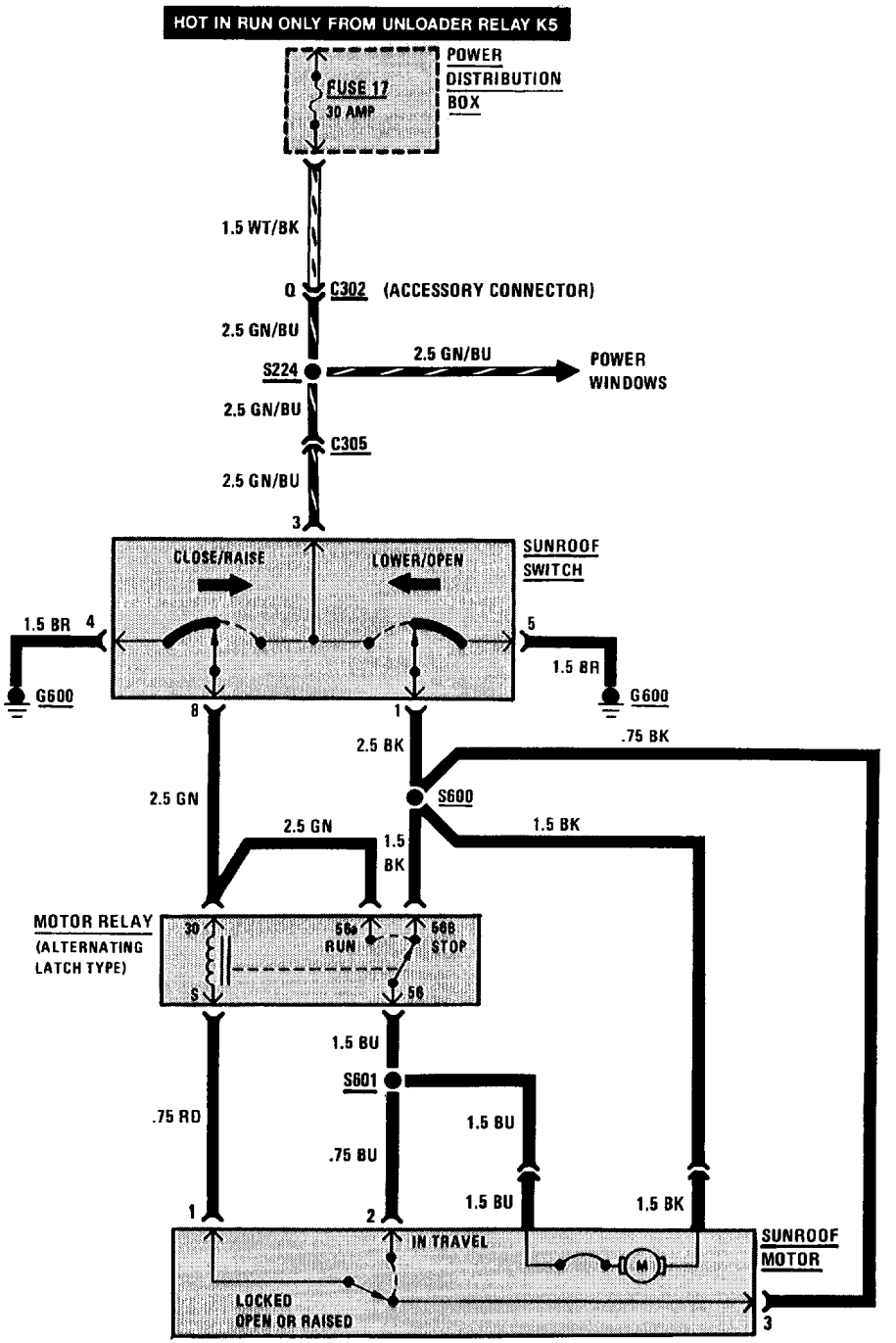


2 DOOR (EARLY PRODUCTION)

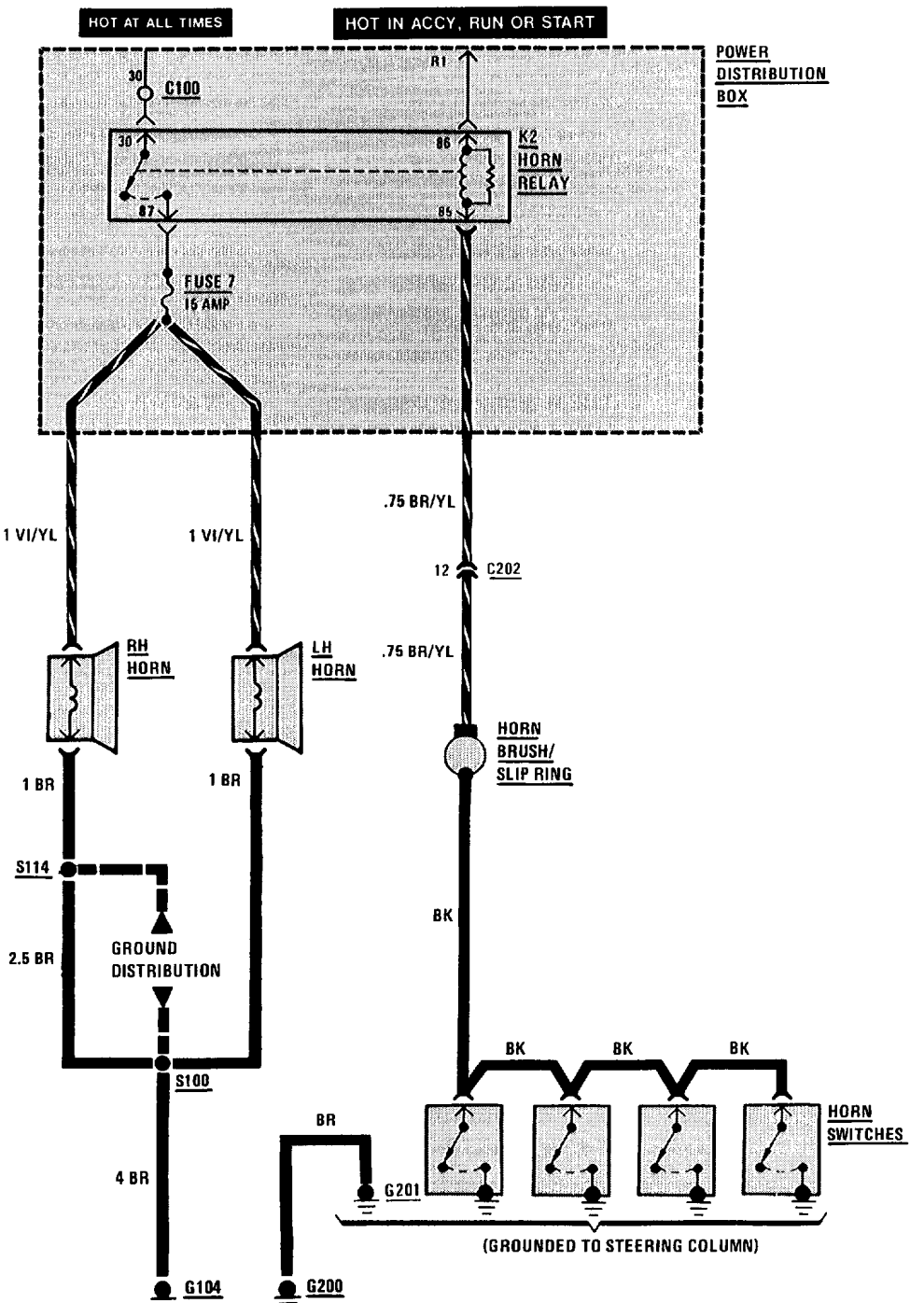


2 DOOR (LATE PRODUCTION)

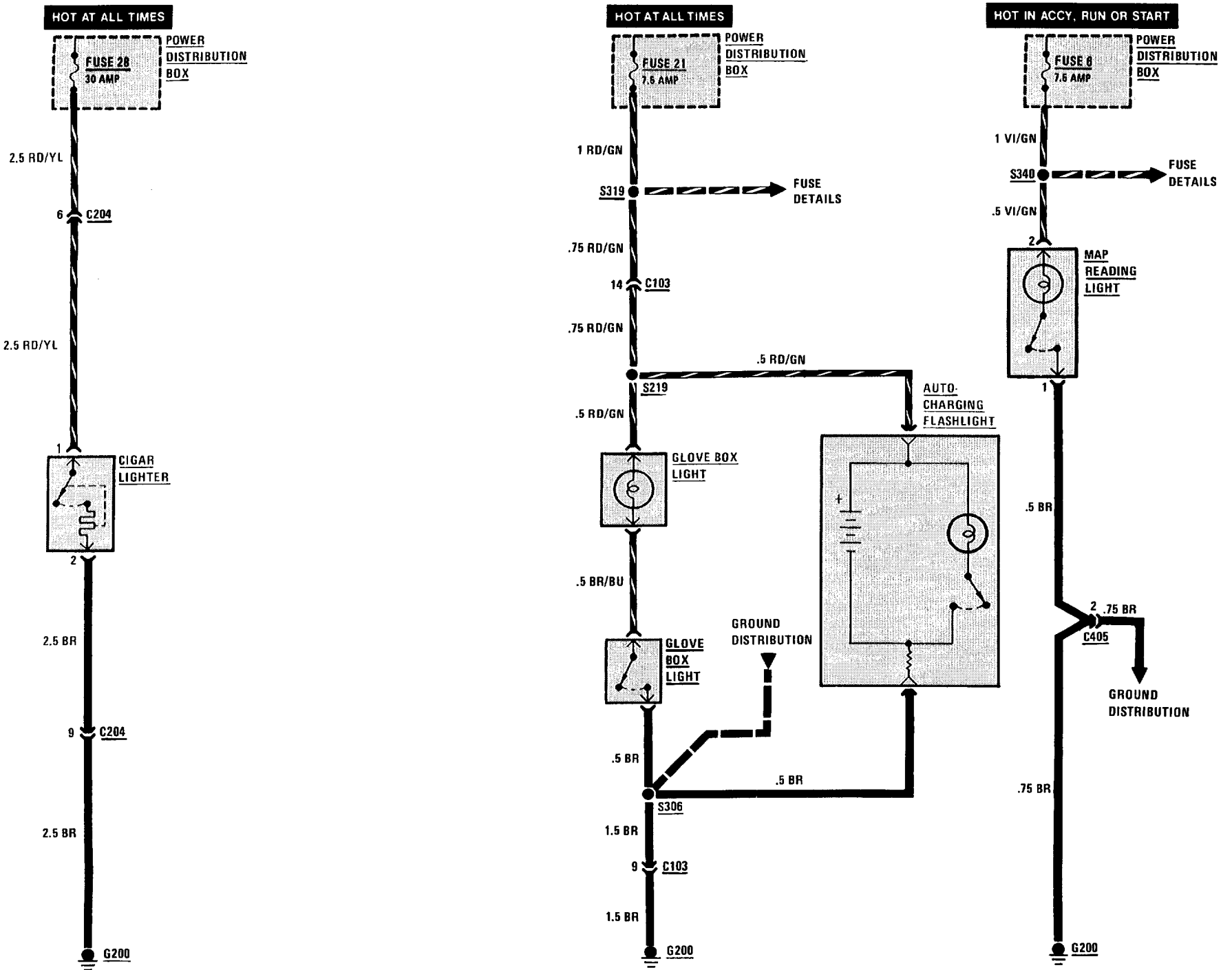



HOT IN RUN ONLY FROM UNLOADER RELAY K5
FUSE 17
30 AMP
POWER DISTRIBUTION BOX
1.5 WT/BK
Q
C302
(ACCESSORY CONNECTOR)
2.5 GN/BU
S224
2.5 GN/BU
POWER WINDOWS
2.5 GN/BU
C305
2.5 GN/BU
3
CLOSE/RAISE
LOWER/OPEN
SUNROOF SWITCH
1.5 BR
4
5
1.5 BR
G600
G600
8
1
2.5 BK
.75 BK
2.5 GN
S600
2.5 GN
1.5 BK
1.5 BK
MOTOR RELAY
(ALTERNATING LATCH TYPE)
30
56a
RUN
56b
STOP
S
56
1.5 BU
S601
.75 RD
1.5 BU
.75 BU
1.5 BU
1.5 BK
1
2
IN TRAVEL
SUNROOF MOTOR
M
LOCKED
OPEN OR RAISED
3

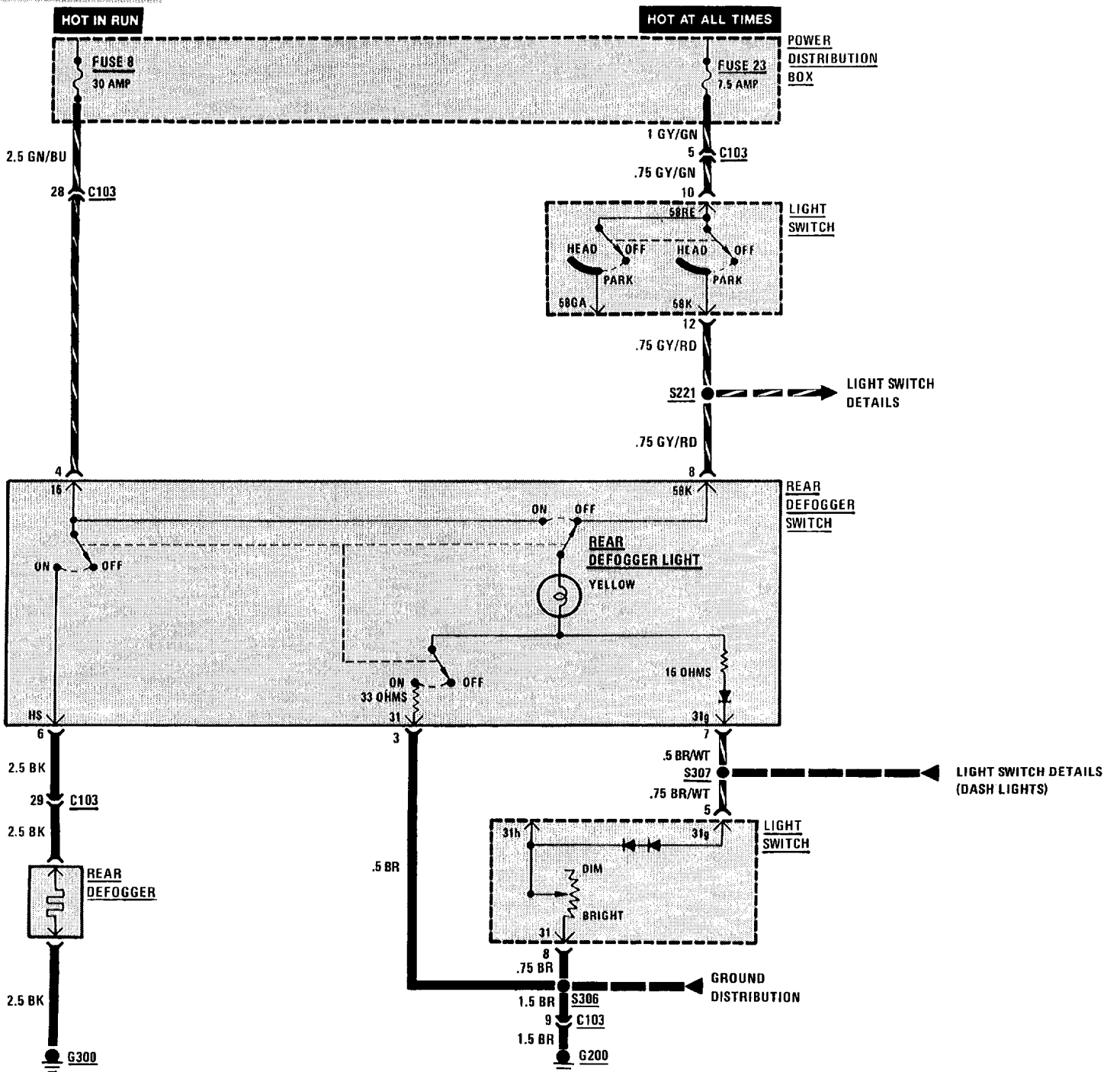
HORNS


HOT AT ALL TIMES
HOT IN ACCY, RUN OR START
POWER DISTRIBUTION BOX
30
C100
R1
30
86
K2 HORN RELAY
87
85
FUSE 7
15 AMP
1 VI/YL
1 VI/YL
.75 BR/YL
12
C202
RH HORN
LH HORN
.75 BR/YL
HORN BRUSH/ SLIP RING
1 BR
1 BR
S114
BK
GROUND DISTRIBUTION
2.5 BR
BK
BK
BK
S100
BR
HORN SWITCHES
4 BR
G201
(GROUNDED TO STEERING COLUMN)
G104
G200

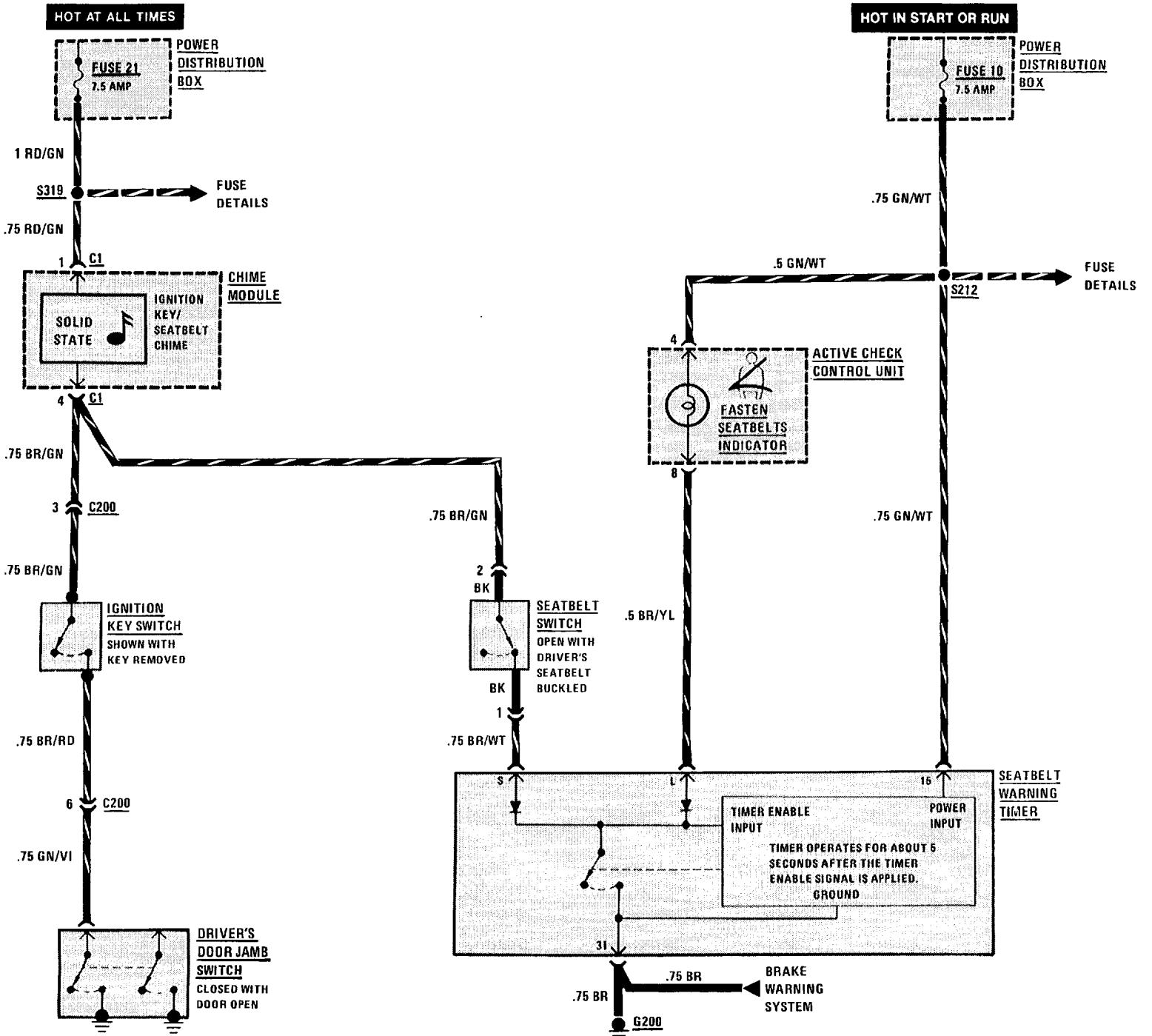
CIGAR LIGHTER/GLOVE BOX LIGHT/AUTO-CHARGING FLASHLIGHT/MAP READING LIGHT

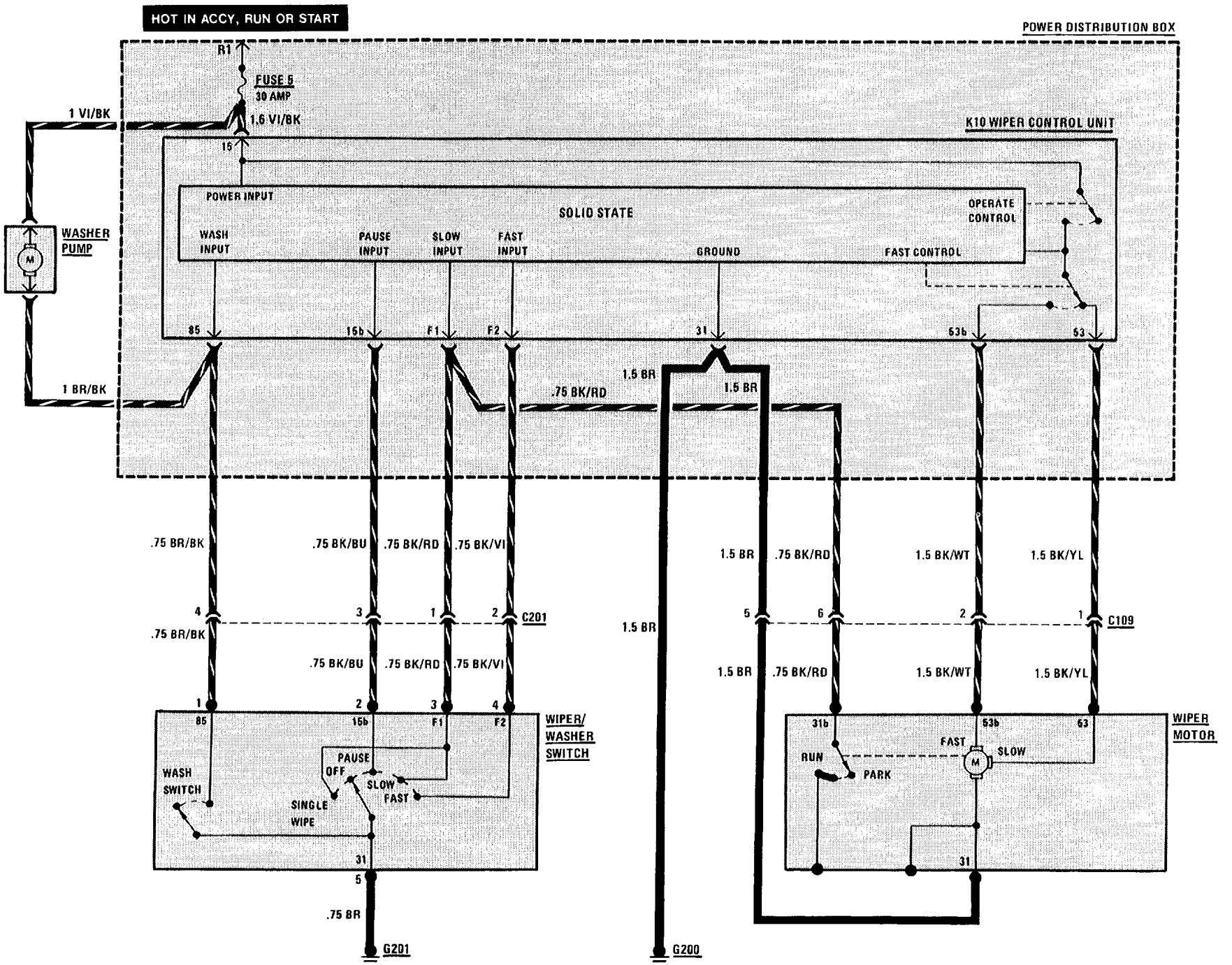


REAR DEFOGGER

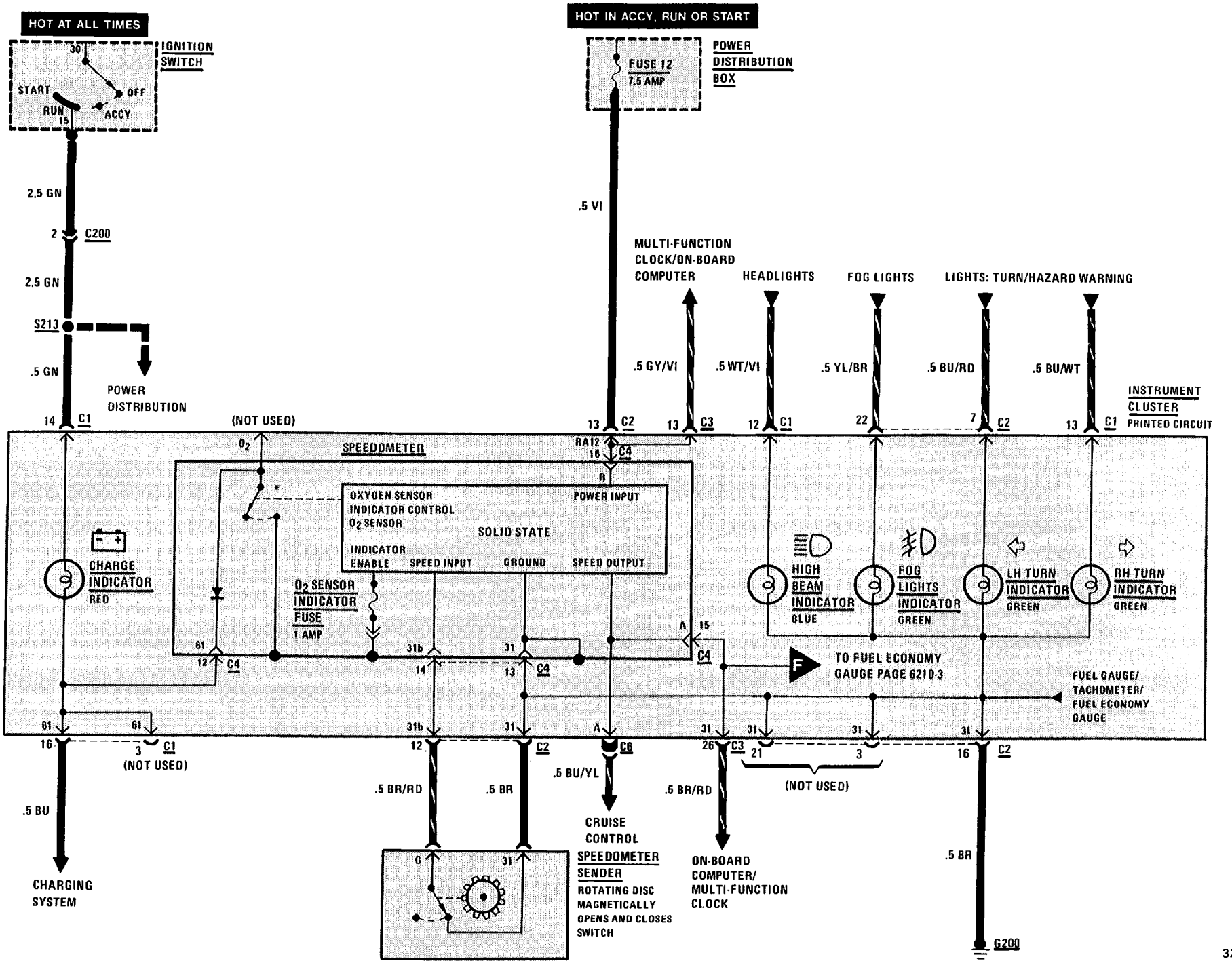


6131-0 IGNITION KEY WARNING/SEATBELT WARNING

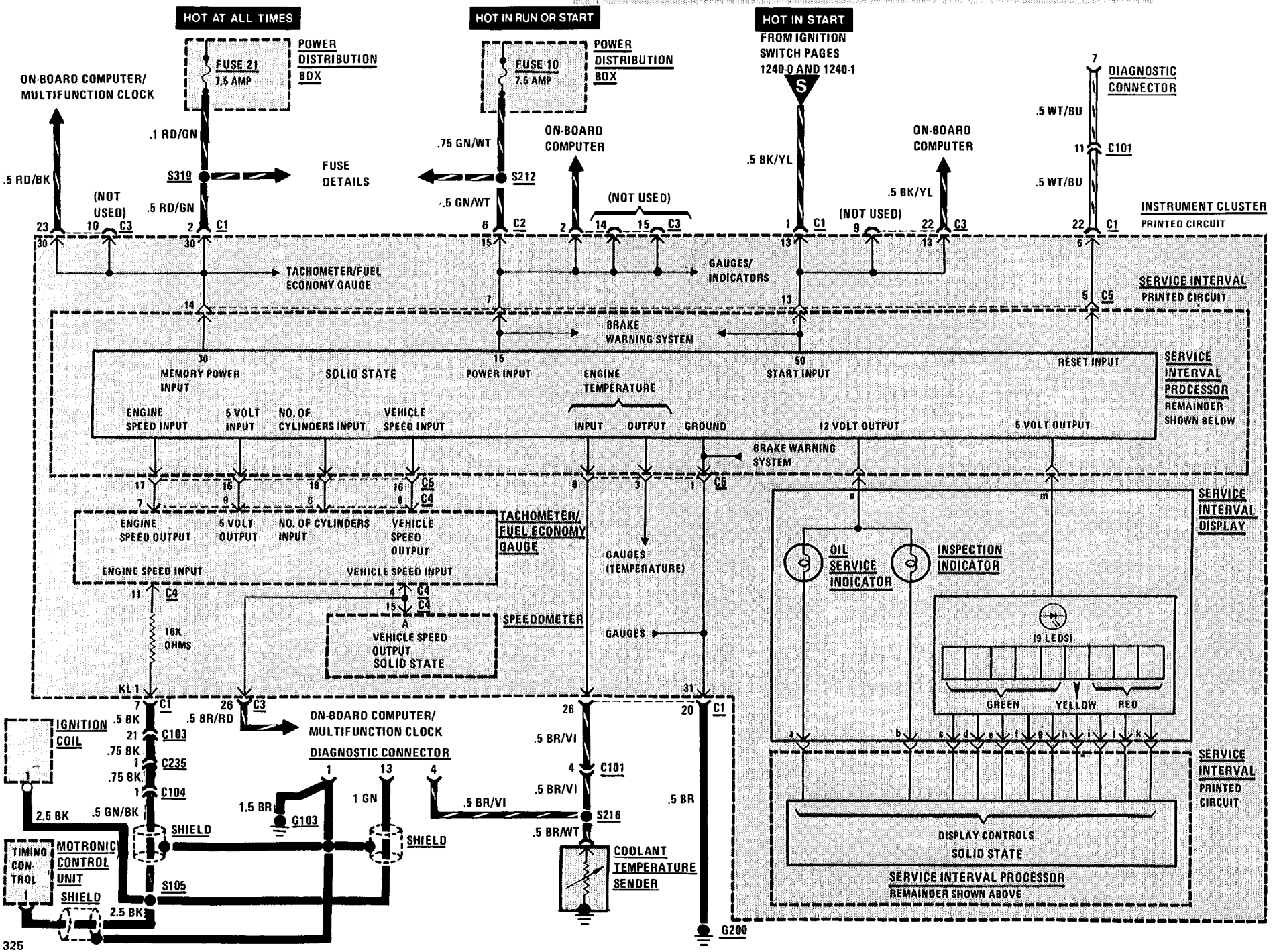



HOT IN ACCY, RUN OR START
POWER DISTRIBUTION BOX
R1
FUSE 6
30 AMP
1.6 VI/BK
1 VI/BK
K10 WIPER CONTROL UNIT
15
POWER INPUT
SOLID STATE
OPERATE CONTROL
WASH INPUT
PAUSE INPUT
SLOW INPUT
FAST INPUT
GROUND
FAST CONTROL
WASHER PUMP
M
85
15b
F1
F2
31
53b
53
1 BR/BK
.75 BK/RD
1.5 BR
1.5 BR
.75 BR/BK
.75 BK/BU
.75 BK/RD
.75 BK/VI
1.5 BR
.75 BK/RD
1.5 BK/WT
1.5 BK/YL
4
3
1
2
C201
5
6
2
1
C109
.75 BR/BK
.75 BK/BU
.75 BK/RD
.75 BK/VI
1.5 BR
1.5 BR
.75 BK/RD
1.5 BK/WT
1.5 BK/YL
1
2
3
4
85
15b
F1
F2
WIPER/ WASHER SWITCH
31b
53b
53
WIPER MOTOR
WASH SWITCH
PAUSE
OFF
SLOW
FAST
SINGLE WIPE
FAST
SLOW
RUN
PARK
M
31
31
5
.75 BR
G201
G200

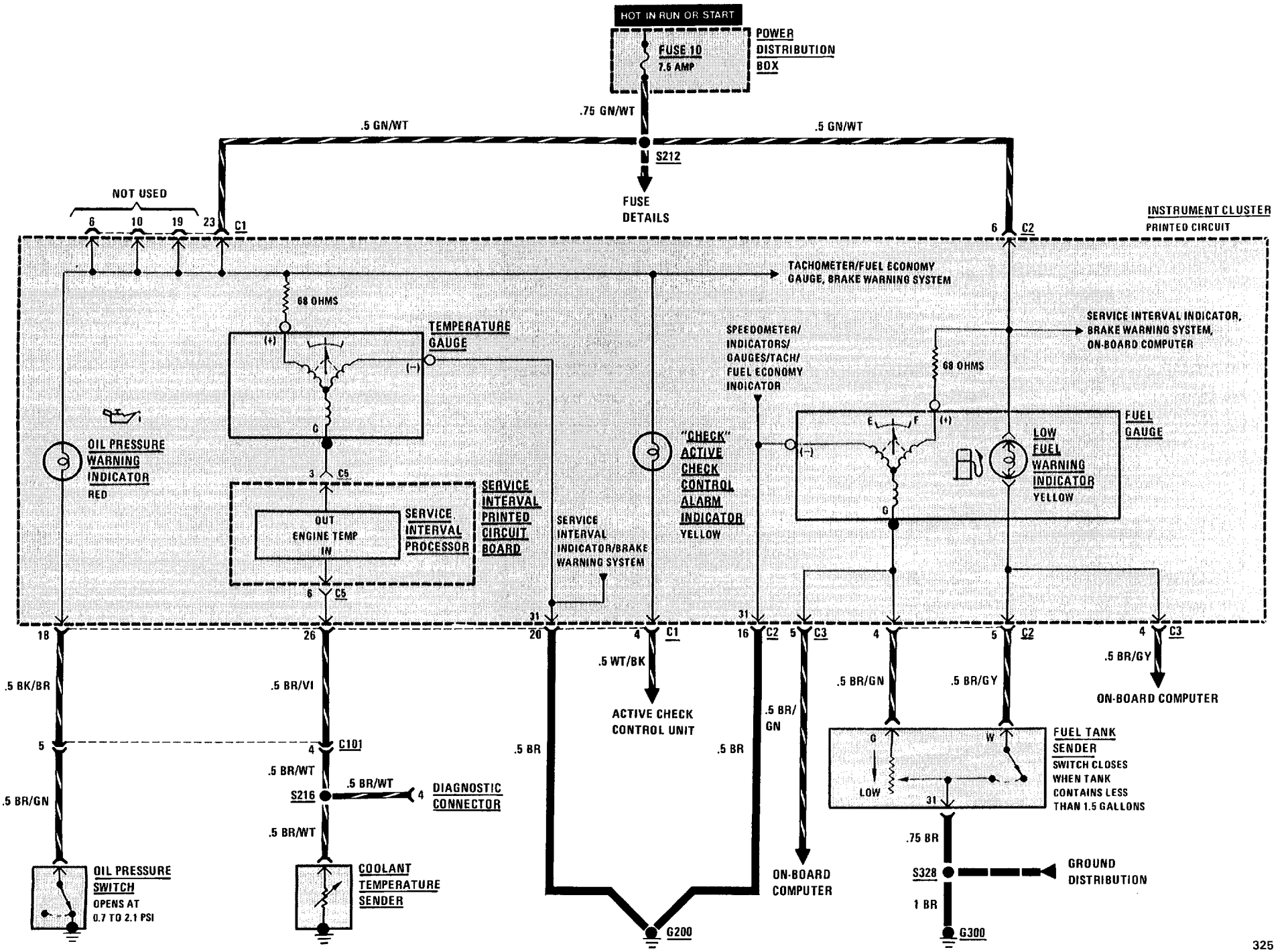
SPEEDOMETER/INDICATORS EARLY PRODUCTION



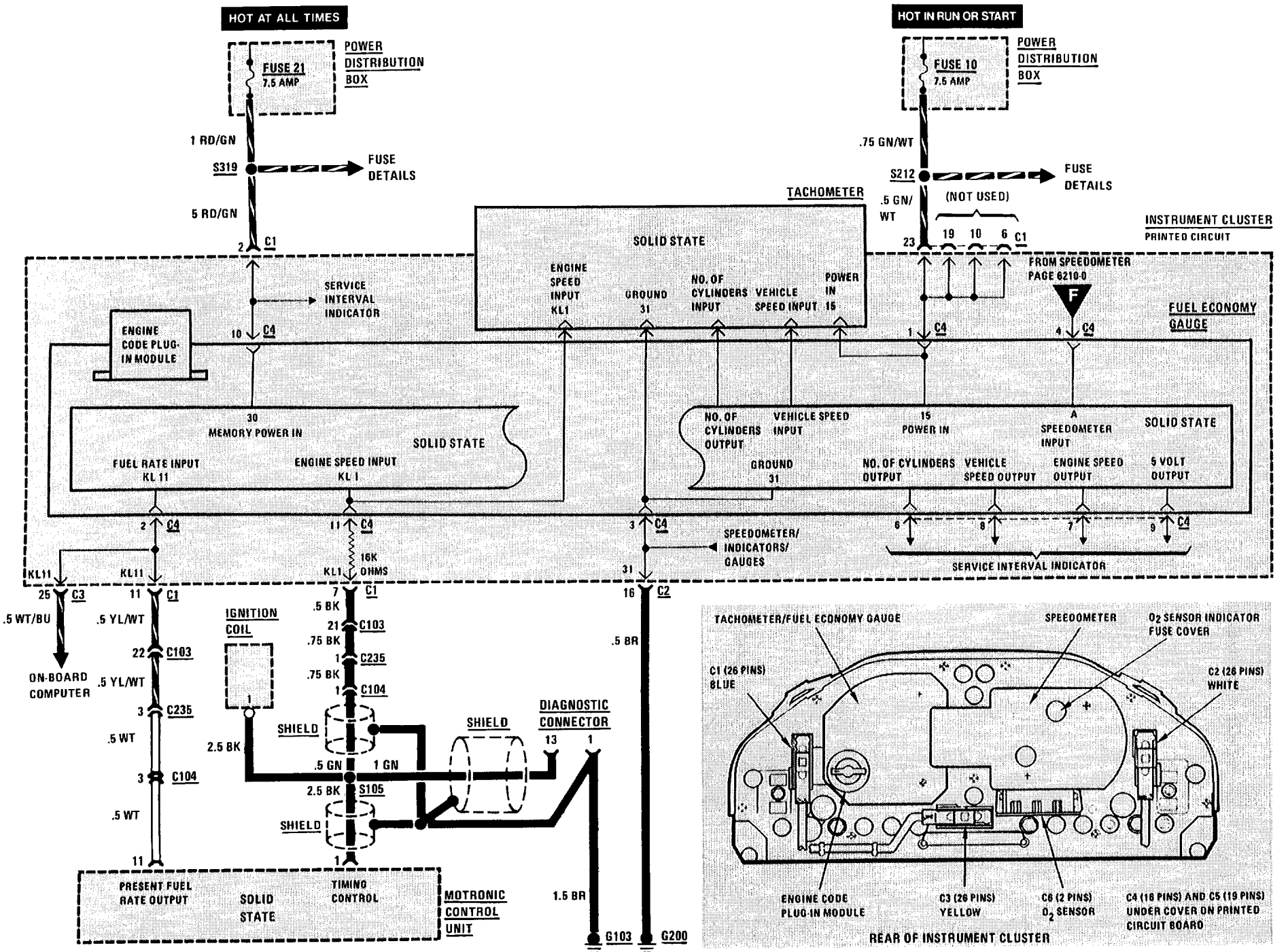
SERVICE INTERVAL INDICATOR EARLY PRODUCTION



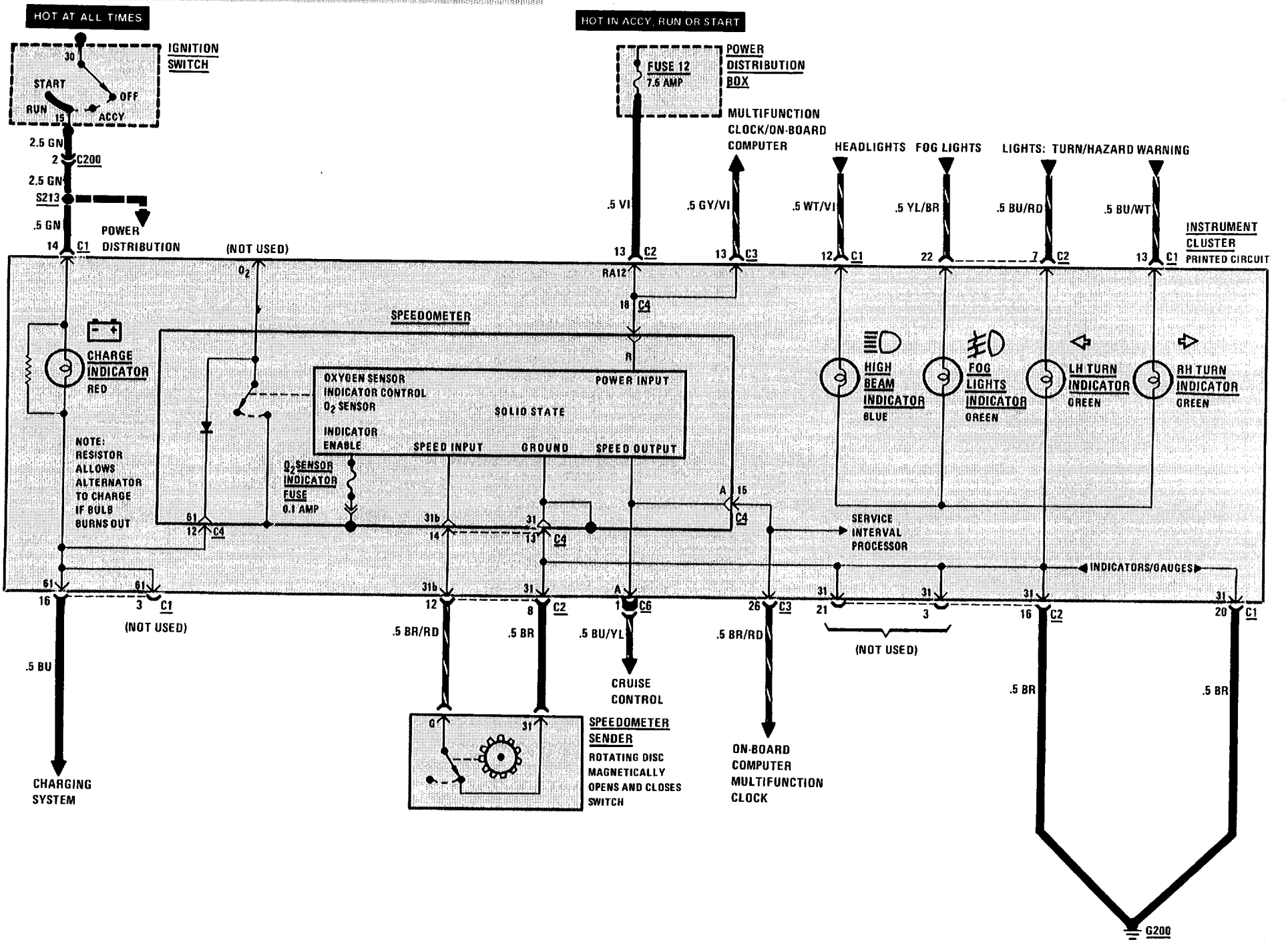
GAUGES/INDICATORS EARLY PRODUCTION



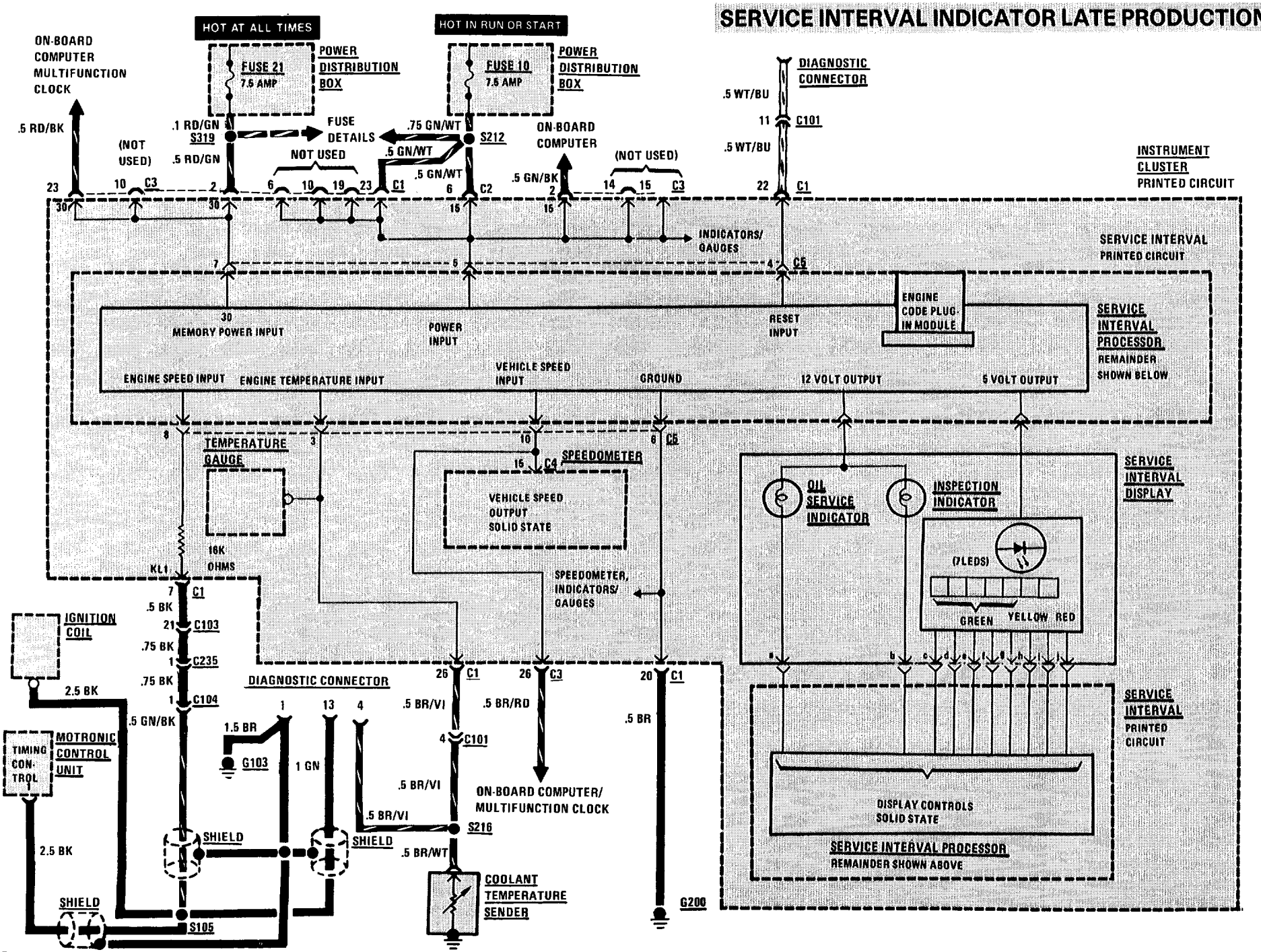
TACHOMETER/FUEL ECONOMY GAUGE EARLY PRODUCTION



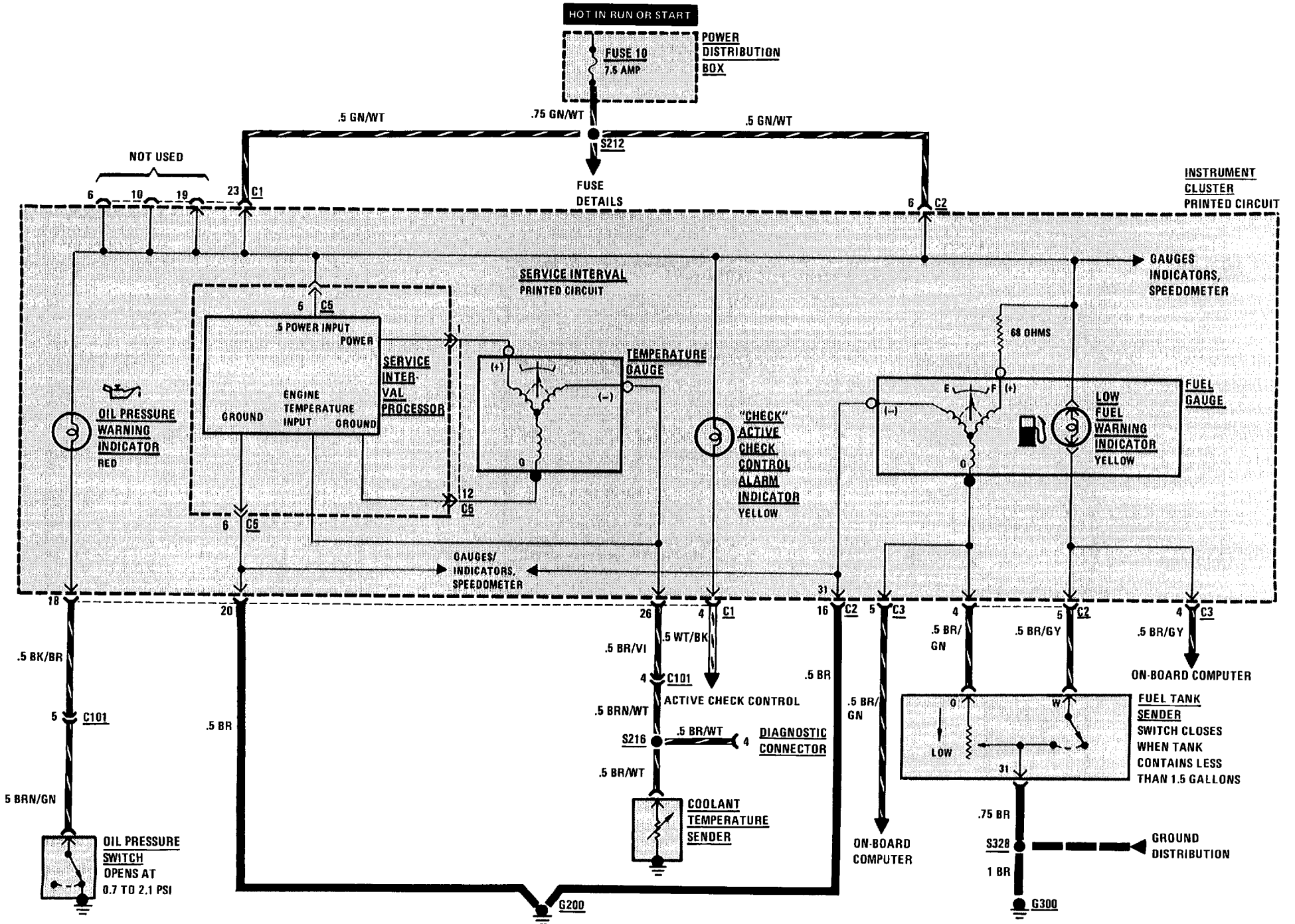
SPEEDOMETER/INDICATORS LATE PRODUCTION



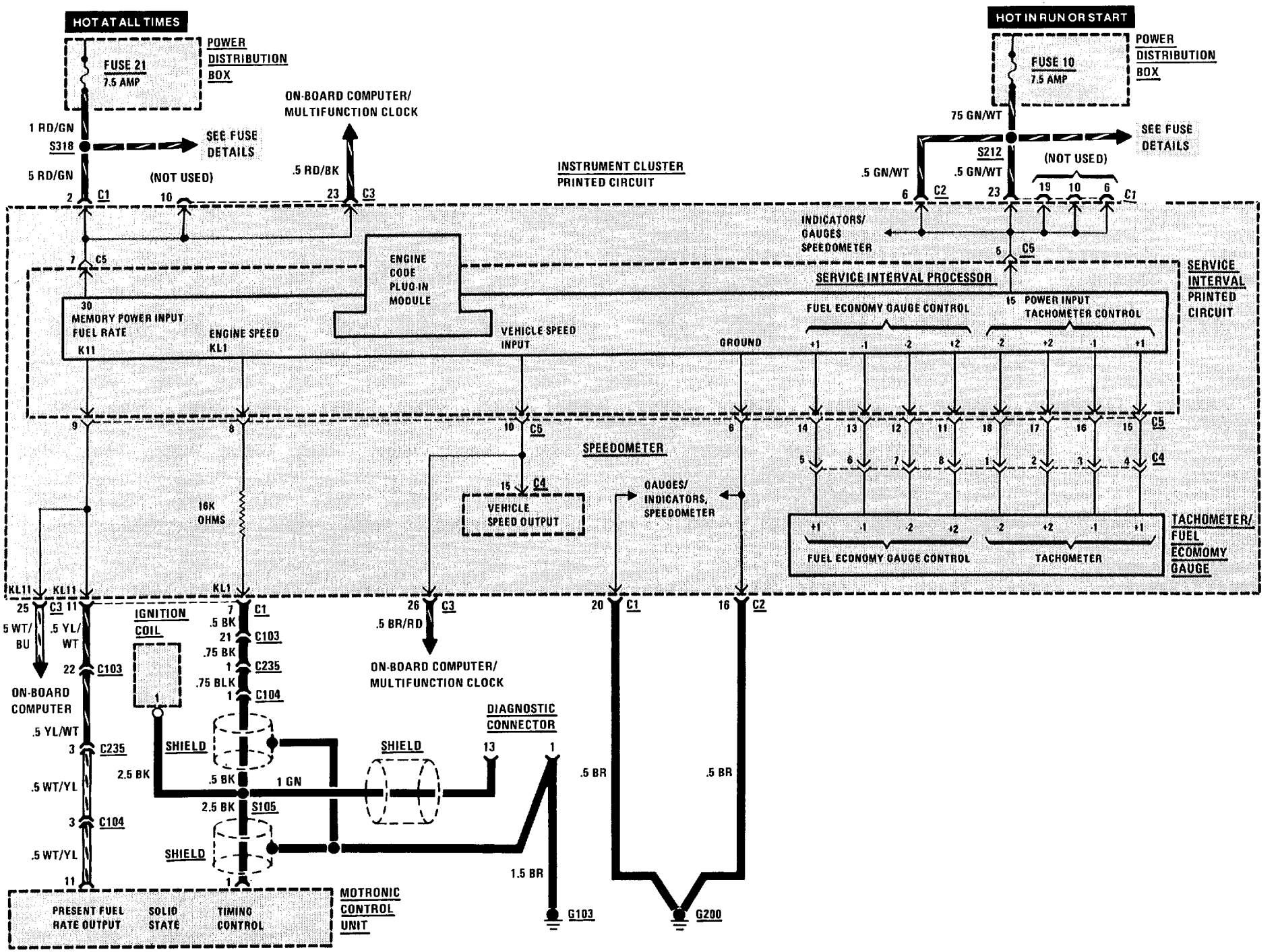
SERVICE INTERVAL INDICATOR LATE PRODUCTION



GAUGES/INDICATORS LATE PRODUCTION



TACHOMETER/FUEL ECONOMY GAUGE LATE PRODUCTION



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.

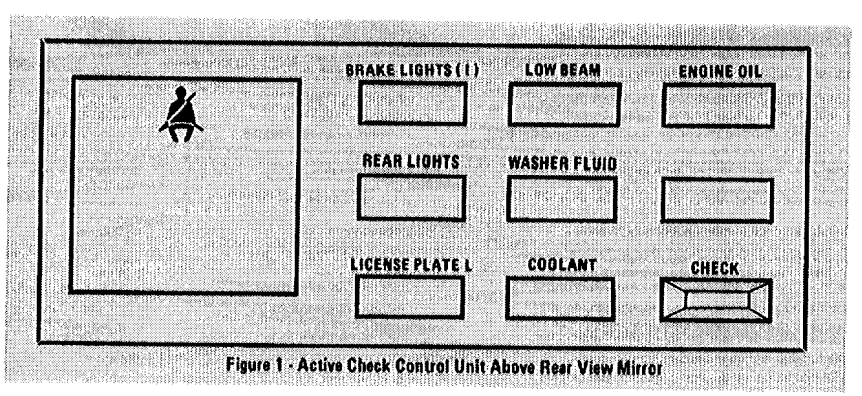
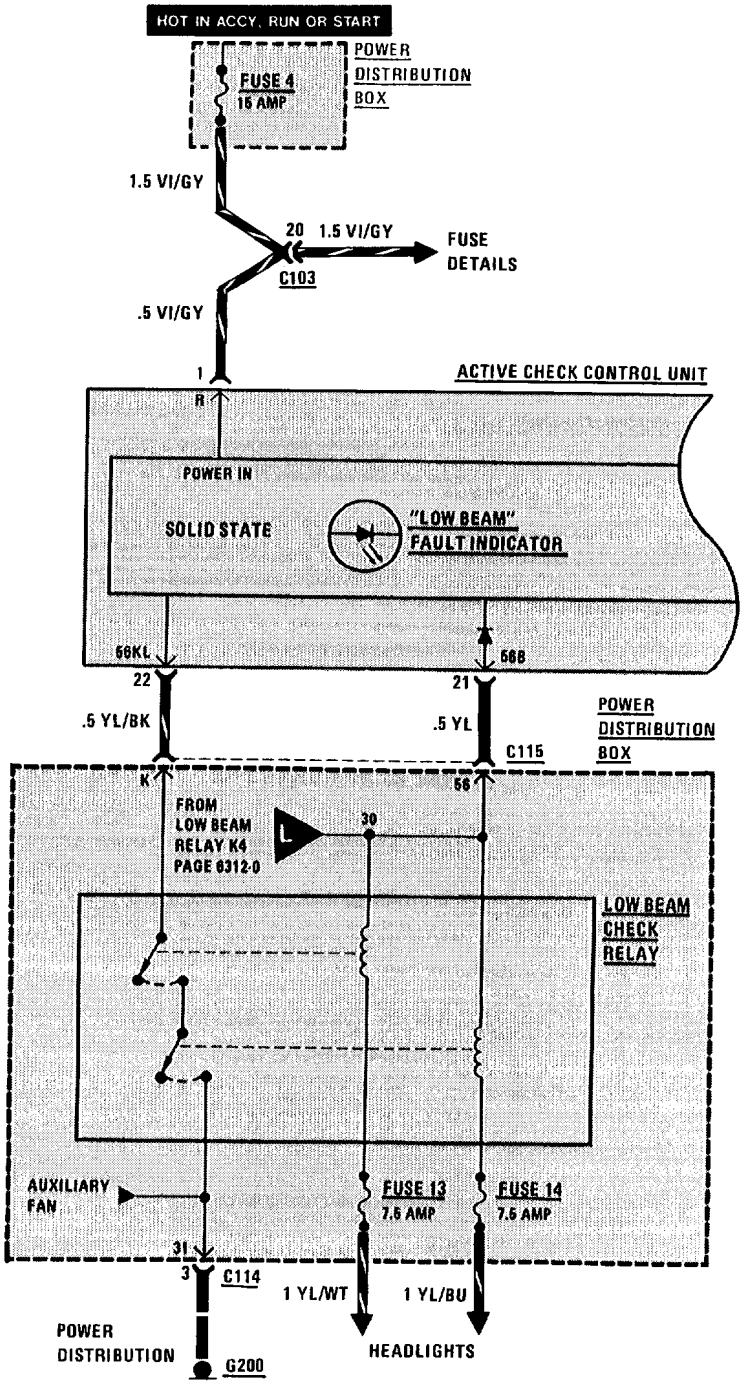
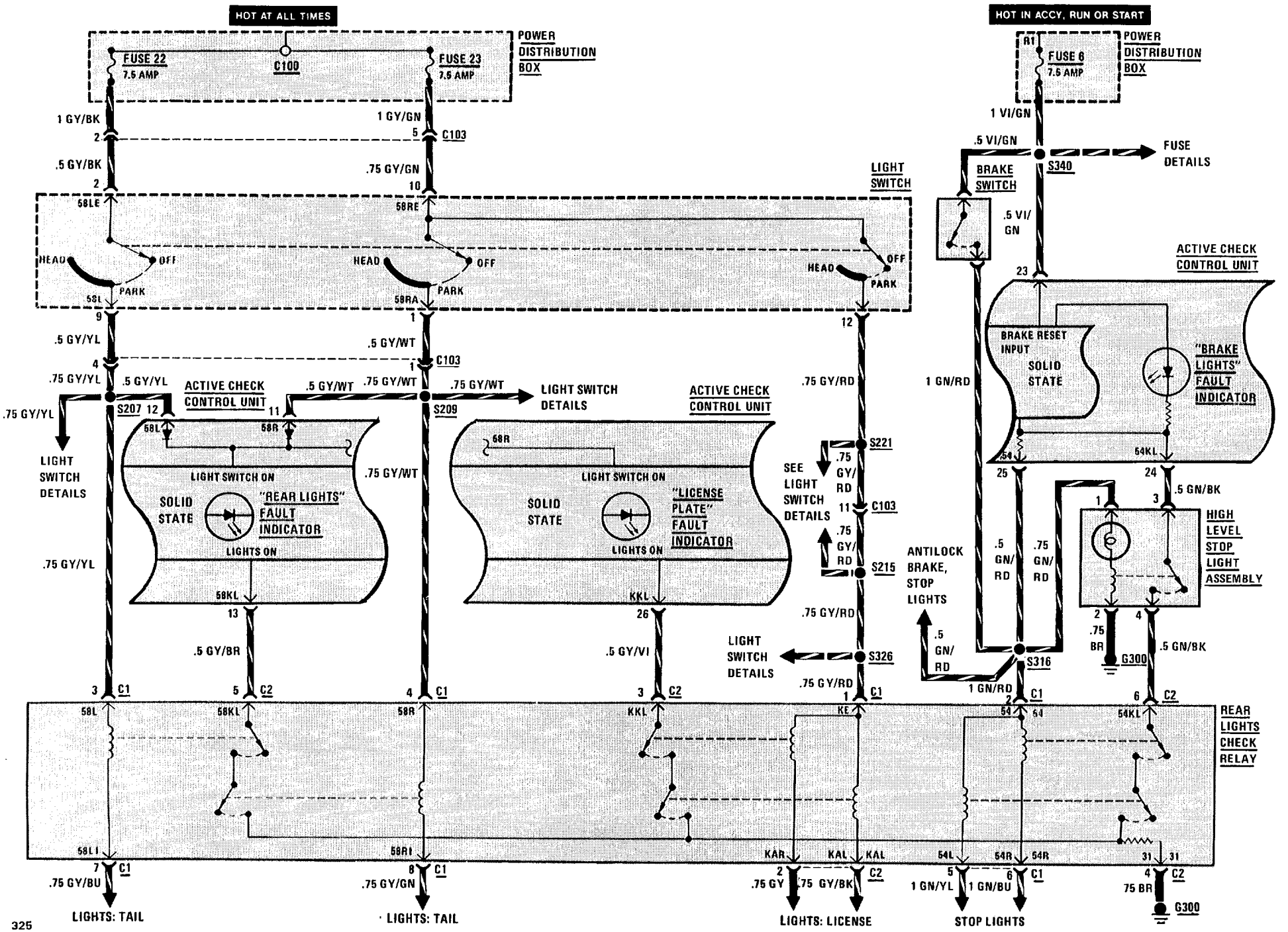
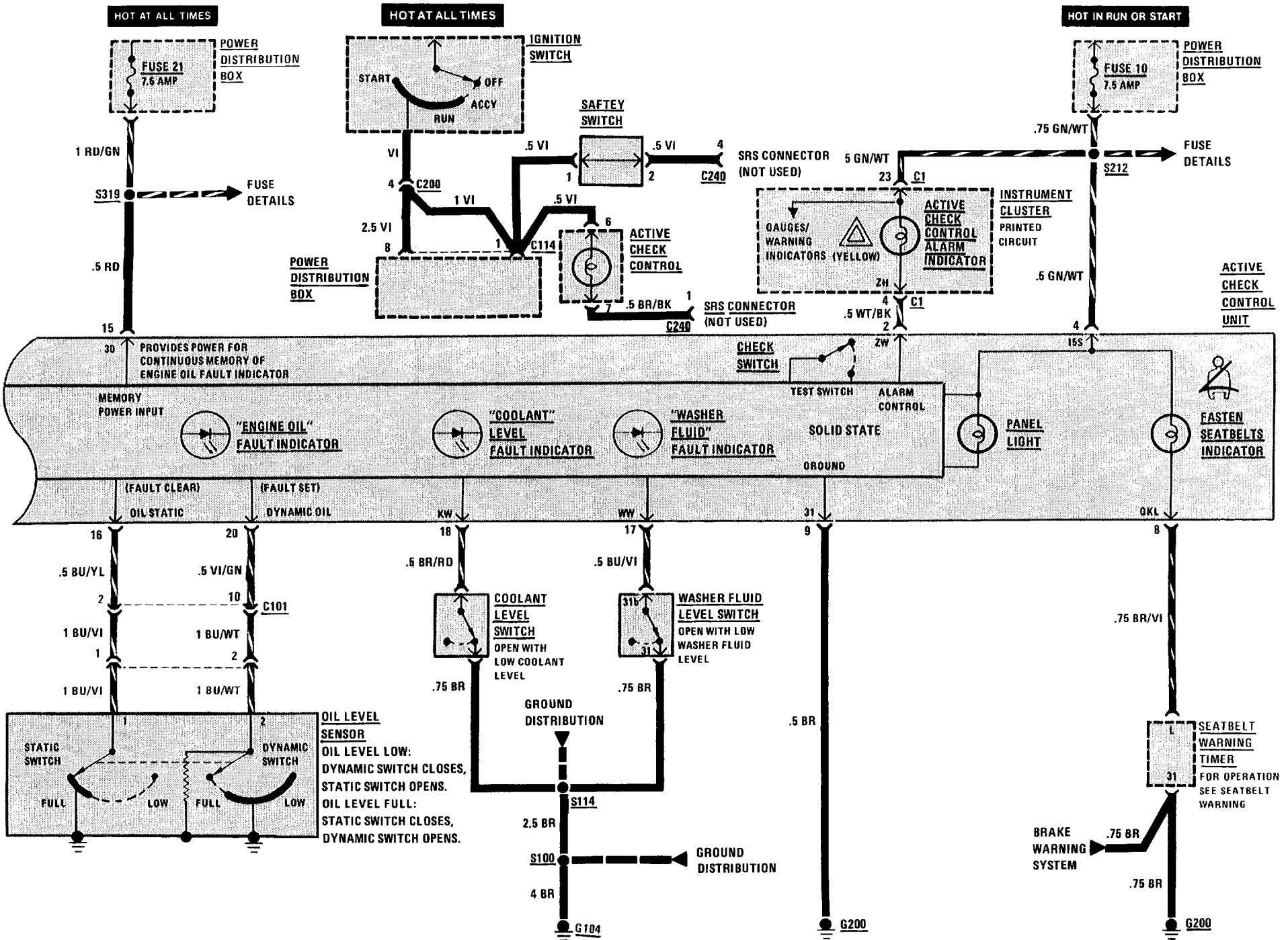


Figure 1 - Active Check Control Unit Above Rear View Mirror

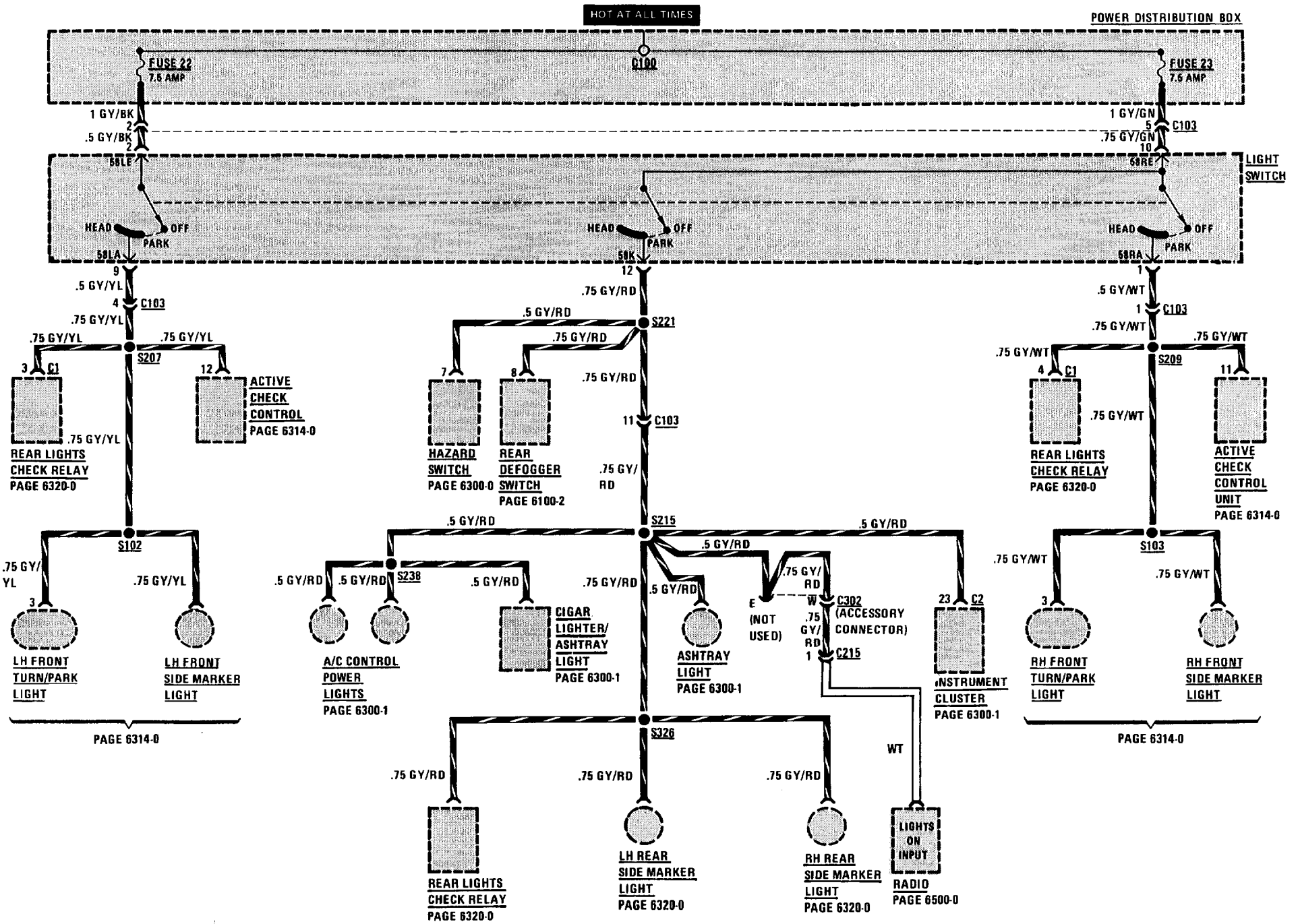



HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 22 7.5 AMP
C100
FUSE 23 7.5 AMP
1 GY/BK
1 GY/GN
C103
.5 GY/BK
.75 GY/GN
LIGHT SWITCH
58LE
58RE
HEAD
OFF
PARK
58L
58RA
.5 GY/YL
.5 GY/WT
.75 GY/YL
.5 GY/YL
ACTIVE CHECK CONTROL UNIT
.5 GY/WT
.75 GY/WT
.75 GY/WT
LIGHT SWITCH DETAILS
S207
S209
LIGHT SWITCH ON
SOLID STATE
"REAR LIGHTS" FAULT INDICATOR
LIGHTS ON
58KL
.75 GY/WT
.5 GY/BR
"LICENSE PLATE" FAULT INDICATOR
KKL
.75 GY/RD
S221
.75 GY/RD
SEE LIGHT SWITCH DETAILS
S215
.5 GY/VI
S326
LIGHT SWITCH DETAILS
HOT IN ACCY, RUN OR START
A1
FUSE 6 7.5 AMP
1 VI/GN
.5 VI/GN
FUSE DETAILS
S340
BRAKE SWITCH
.5 VI/GN
ACTIVE CHECK CONTROL UNIT
BRAKE RESET INPUT
SOLID STATE
"BRAKE LIGHTS" FAULT INDICATOR
1 GN/RD
54
54KL
.5 GN/BK
HIGH LEVEL STOP LIGHT ASSEMBLY
.5 GN/RD
.75 GN/RD
ANTILOCK BRAKE, STOP LIGHTS
.5 GN/RD
S316
G300
.75 BR
.5 GN/BK
REAR LIGHTS CHECK RELAY
58LI
58RI
KAR
KAL
54L
54R
.75 GY/BU
.75 GY/GN
.75 GY
.75 GY/BK
1 GN/YL
1 GN/BU
.75 BR
LIGHTS: TAIL
LIGHTS: TAIL
LIGHTS: LICENSE
STOP LIGHTS
G300

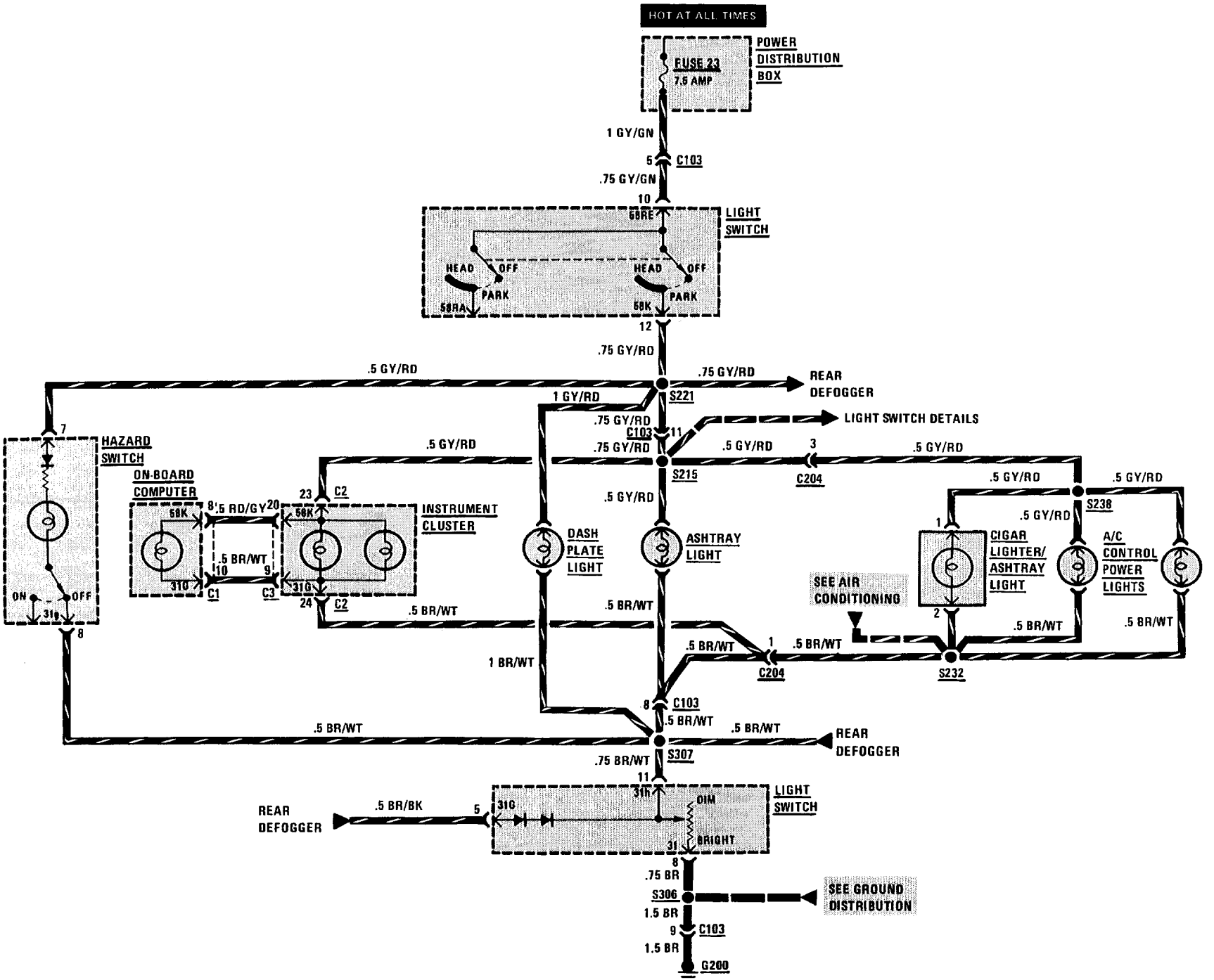
6216-2 ACTIVE CHECK CONTROL

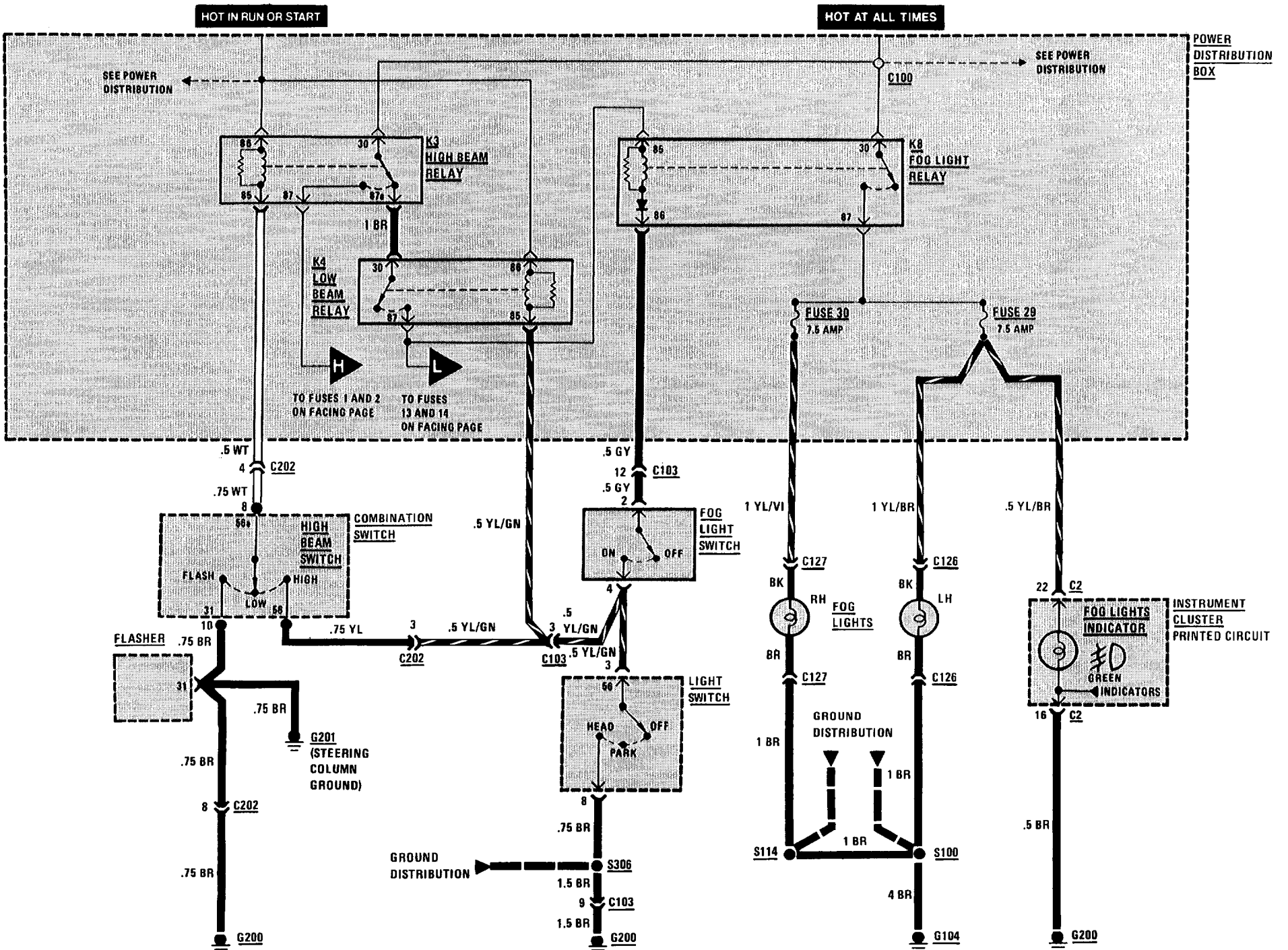


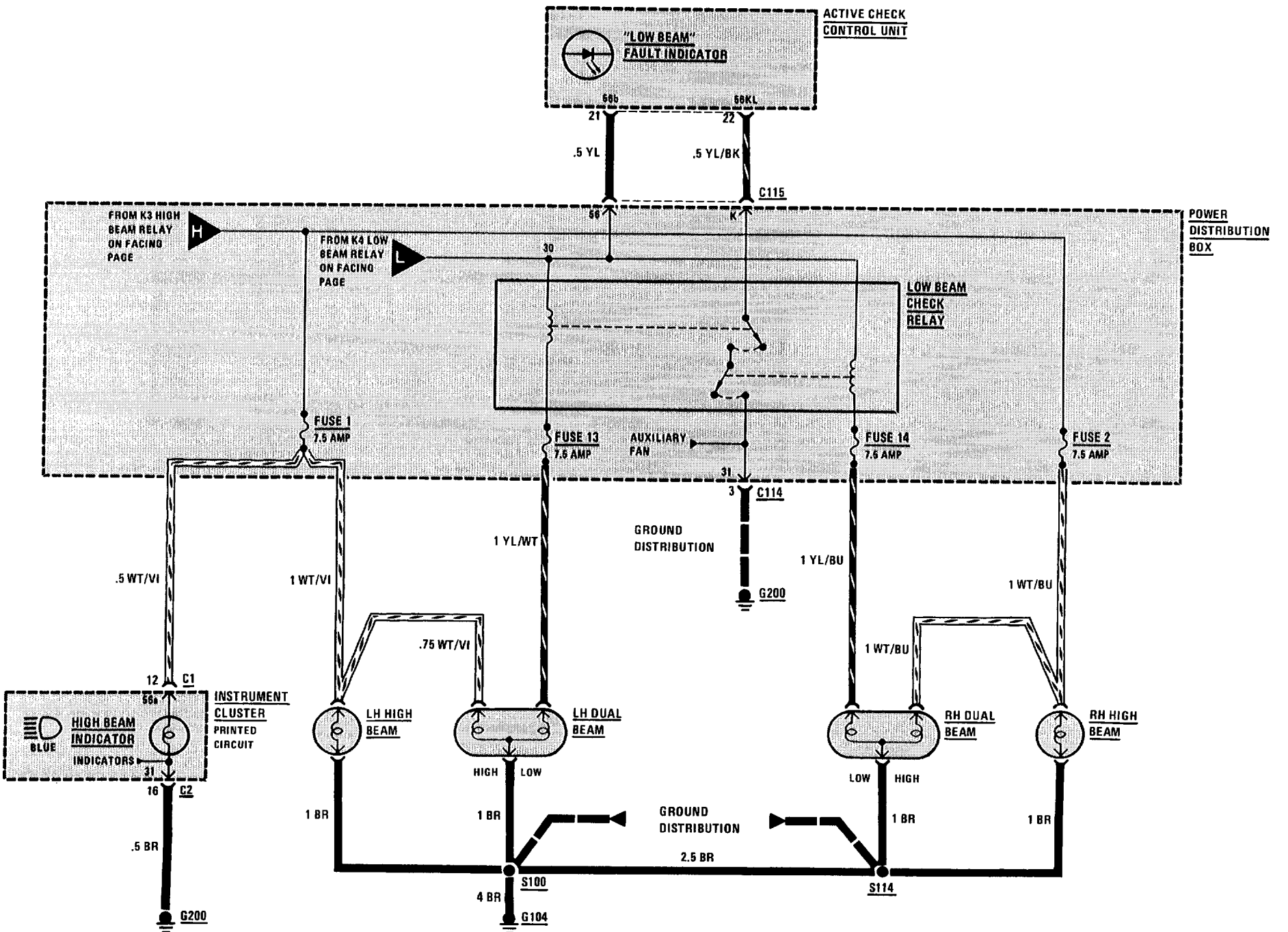
6300-0 LIGHT SWITCH DETAILS



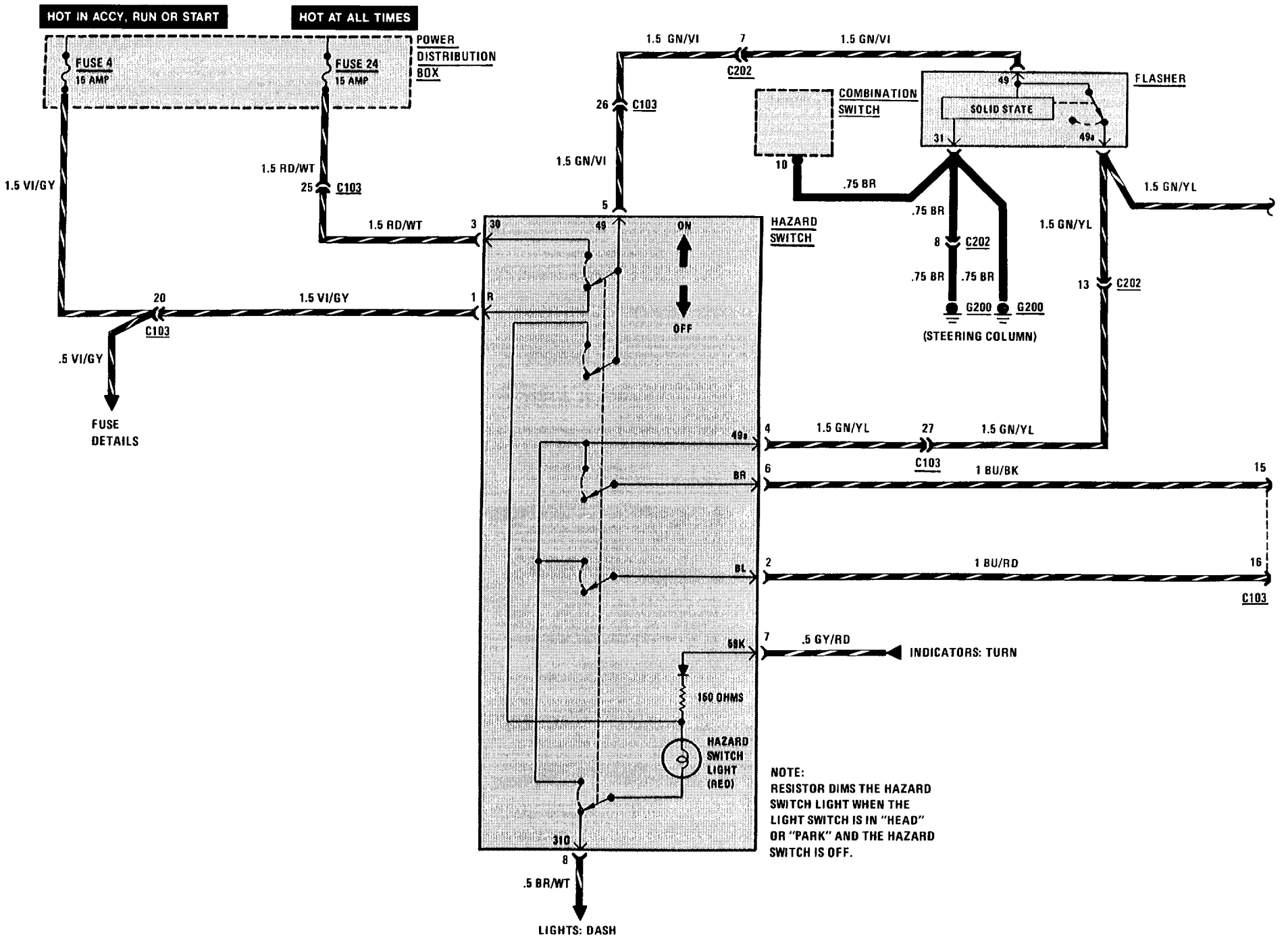
DASH LIGHTS

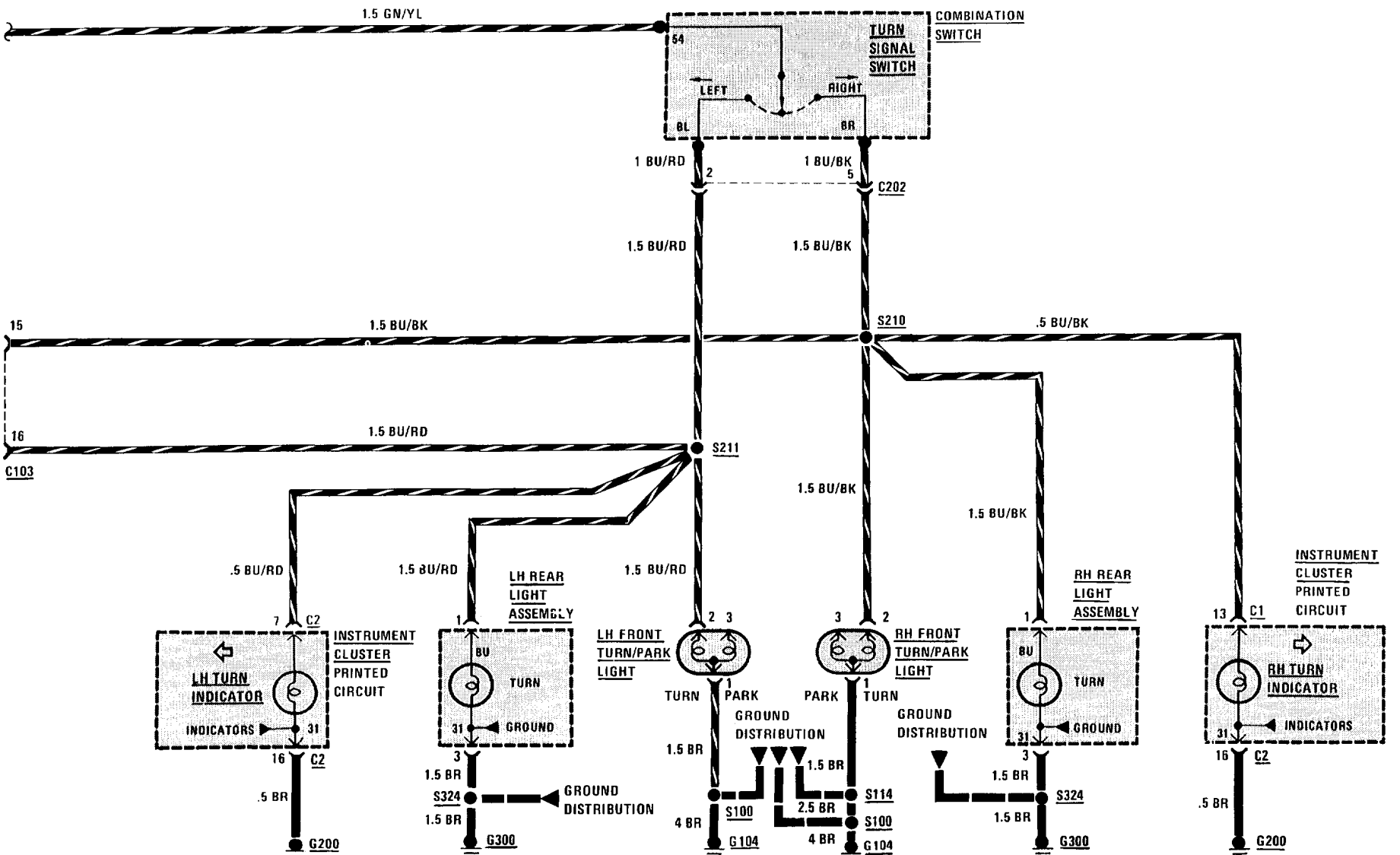

HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 23
7.5 AMP
1 GY/GN
5
C103
.75 GY/GN
10
58RE
LIGHT SWITCH
HEAD
OFF
PARK
58RA
58K
12
.75 GY/RD
.5 GY/RD
.75 GY/RD
REAR DEFOGGER
1 GY/RD
S221
LIGHT SWITCH DETAILS
11
7
HAZARD SWITCH
ON
OFF
31B
8
ON-BOARD COMPUTER
.5 RD/GY
20
23
C2
INSTRUMENT CLUSTER
.5 BR/WT
10
9
31G
C1
C3
24
DASH PLATE LIGHT
ASHTRAY LIGHT
S215
3
C204
S238
CIGAR LIGHTER/ ASHTRAY LIGHT
A/C CONTROL POWER LIGHTS
SEE AIR CONDITIONING
S232
1 BR/WT
8
S307
REAR DEFOGGER
.5 BR/BK
31C
31R
DIM
BRIGHT
31
.75 BR
S306
SEE GROUND DISTRIBUTION
1.5 BR
G200


HOT IN RUN OR START
HOT AT ALL TIMES
POWER DISTRIBUTION BOX
SEE POWER DISTRIBUTION
SEE POWER DISTRIBUTION
C100
K3 HIGH BEAM RELAY
K4 LOW BEAM RELAY
K8 FOG LIGHT RELAY
86
30
85
87
87a
1 BR
H
L
TO FUSES 1 AND 2 ON FACING PAGE
TO FUSES 13 AND 14 ON FACING PAGE
FUSE 30 7.5 AMP
FUSE 29 7.5 AMP
.5 WT
4
C202
.75 WT
8
.5 GY
12
C103
.5 GY
2
1 YL/VI
1 YL/BR
.5 YL/BR
COMBINATION SWITCH
HIGH BEAM SWITCH
FLASH
HIGH
LOW
56a
56
31
.5 YL/GN
FOG LIGHT SWITCH
ON
OFF
4
C127
C126
BK
RH
LH
FOG LIGHTS
BR
22
C2
INSTRUMENT CLUSTER PRINTED CIRCUIT
FOG LIGHTS INDICATOR
GREEN INDICATORS
16
C2
10
FLASHER
.75 BR
.75 YL
3
.5 YL/GN
3 YL/GN
.5 YL/GN
C202
C103
3
LIGHT SWITCH
HEAD
OFF
PARK
50
8
.75 BR
G201 (STEERING COLUMN GROUND)
GROUND DISTRIBUTION
1 BR
S306
1.5 BR
9
C103
1.5 BR
G200
S114
S100
4 BR
G104
.5 BR
G200

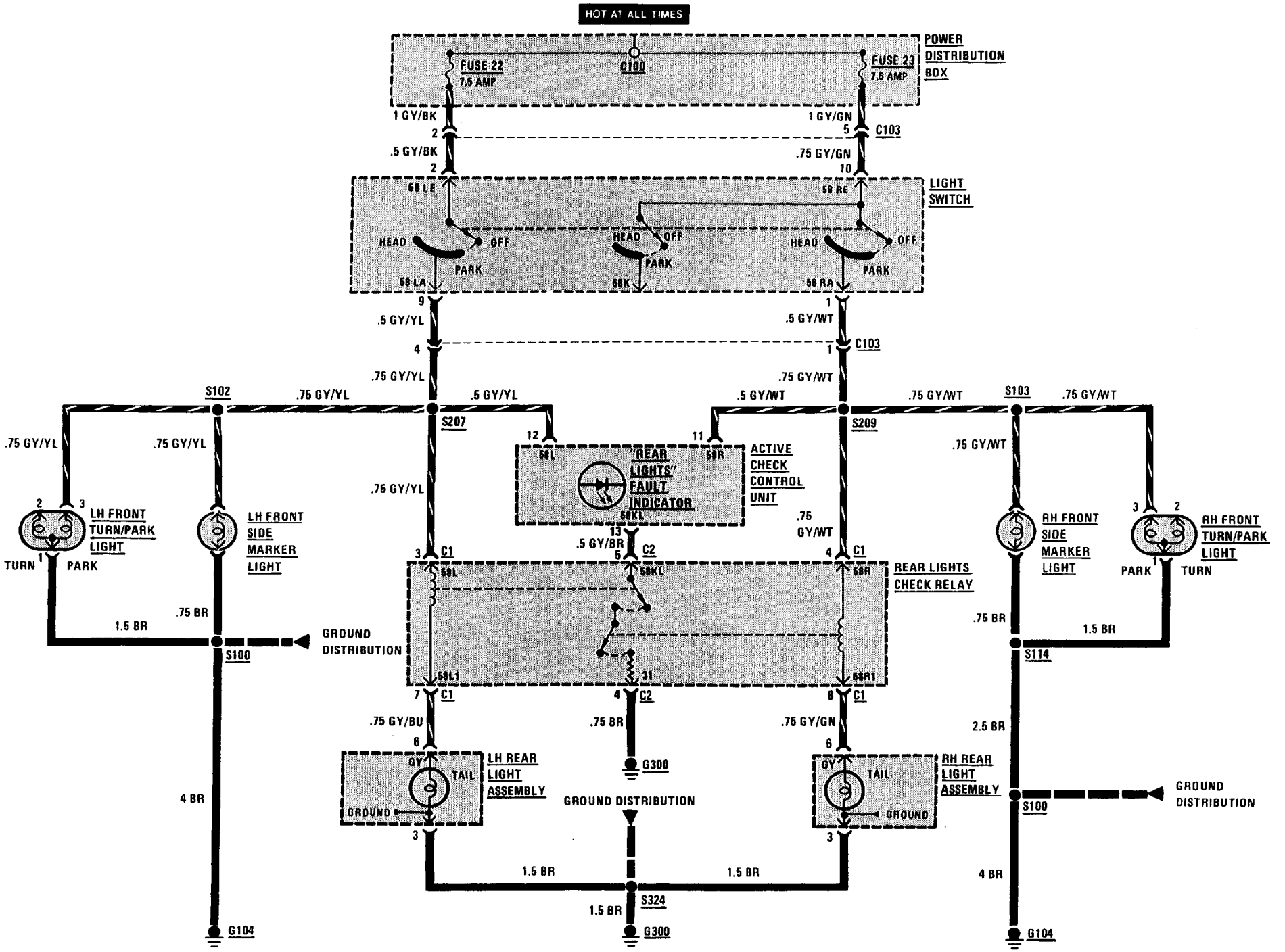

ACTIVE CHECK CONTROL UNIT
"LOW BEAM" FAULT INDICATOR
56b
56KL
21
22
.5 YL
.5 YL/BK
C115
56
K
POWER DISTRIBUTION BOX
FROM K3 HIGH BEAM RELAY ON FACING PAGE
H
FROM K4 LOW BEAM RELAY ON FACING PAGE
L
30
LOW BEAM CHECK RELAY
FUSE 1 7.5 AMP
FUSE 13 7.5 AMP
AUXILIARY FAN
FUSE 14 7.5 AMP
FUSE 2 7.5 AMP
31
3
C114
GROUND DISTRIBUTION
G200
1 YL/WT
1 YL/BU
.5 WT/VI
1 WT/VI
.75 WT/VI
1 WT/BU
1 WT/BU
12
C1
56a
INSTRUMENT CLUSTER
PRINTED CIRCUIT
HIGH BEAM INDICATOR
BLUE
INDICATORS
31
16
C2
LH HIGH BEAM
LH DUAL BEAM
RH DUAL BEAM
RH HIGH BEAM
HIGH
LOW
LOW
HIGH
1 BR
1 BR
1 BR
1 BR
GROUND DISTRIBUTION
2.5 BR
.5 BR
S100
S114
4 BR
G200
G104

6313-0 TURN/HAZARD LIGHTS

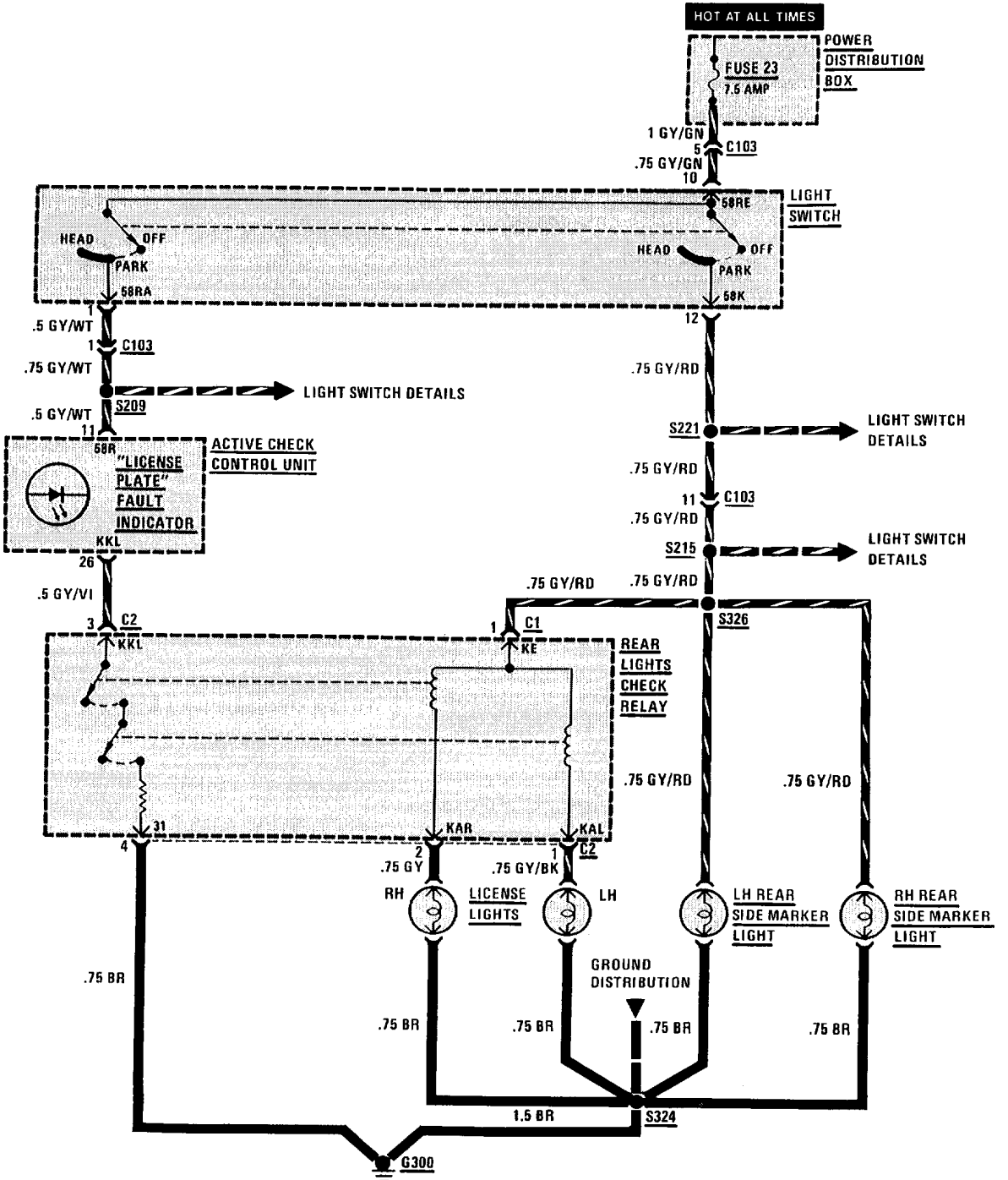


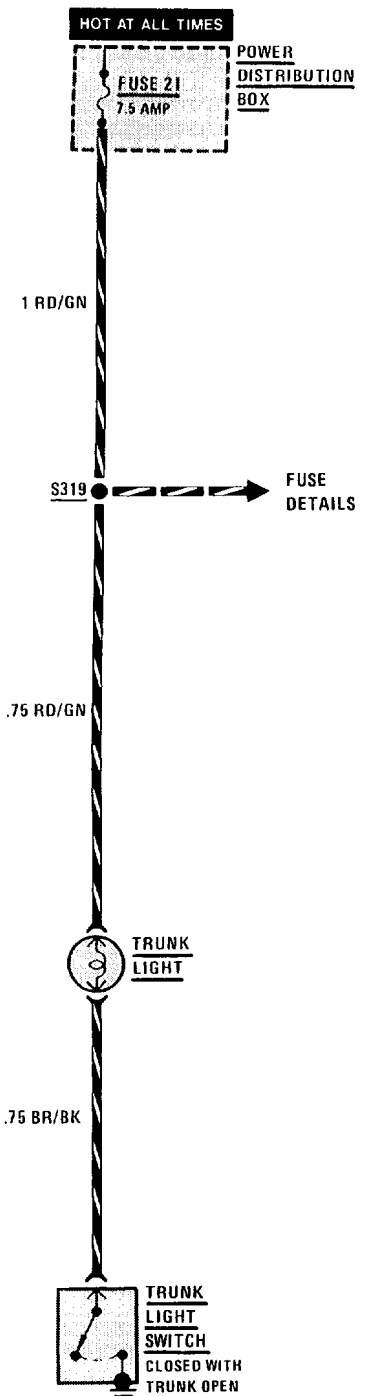

1.5 GN/YL
COMBINATION SWITCH
54
TURN SIGNAL SWITCH
LEFT
RIGHT
BL
BR
1 BU/RD
2
1 BU/BK
5
C202
1.5 BU/RD
1.5 BU/BK
15
1.5 BU/BK
S210
.5 BU/BK
16
1.5 BU/RD
S211
C103
1.5 BU/BK
1.5 BU/BK
.5 BU/RD
1.5 BU/RD
1.5 BU/RD
LH REAR LIGHT ASSEMBLY
RH REAR LIGHT ASSEMBLY
INSTRUMENT CLUSTER PRINTED CIRCUIT
7 C2
LH TURN INDICATOR
INDICATORS
31
16 C2
INSTRUMENT CLUSTER PRINTED CIRCUIT
BU
TURN
31
GROUND
1
3
1.5 BR
S324
1.5 BR
G300
GROUND DISTRIBUTION
.5 BR
G200
LH FRONT TURN/PARK LIGHT
2 3
TURN
PARK
1
1.5 BR
S100
4 BR
G104
GROUND DISTRIBUTION
RH FRONT TURN/PARK LIGHT
3 2
PARK
TURN
1
1.5 BR
S114
2.5 BR
S100
4 BR
G104
GROUND DISTRIBUTION
1.5 BR
S324
1.5 BR
G300
13 C1
RH TURN INDICATOR
INDICATORS
16 C2
.5 BR
G200

6314-0 PARK/TAIL/FRONT MARKER LIGHTS

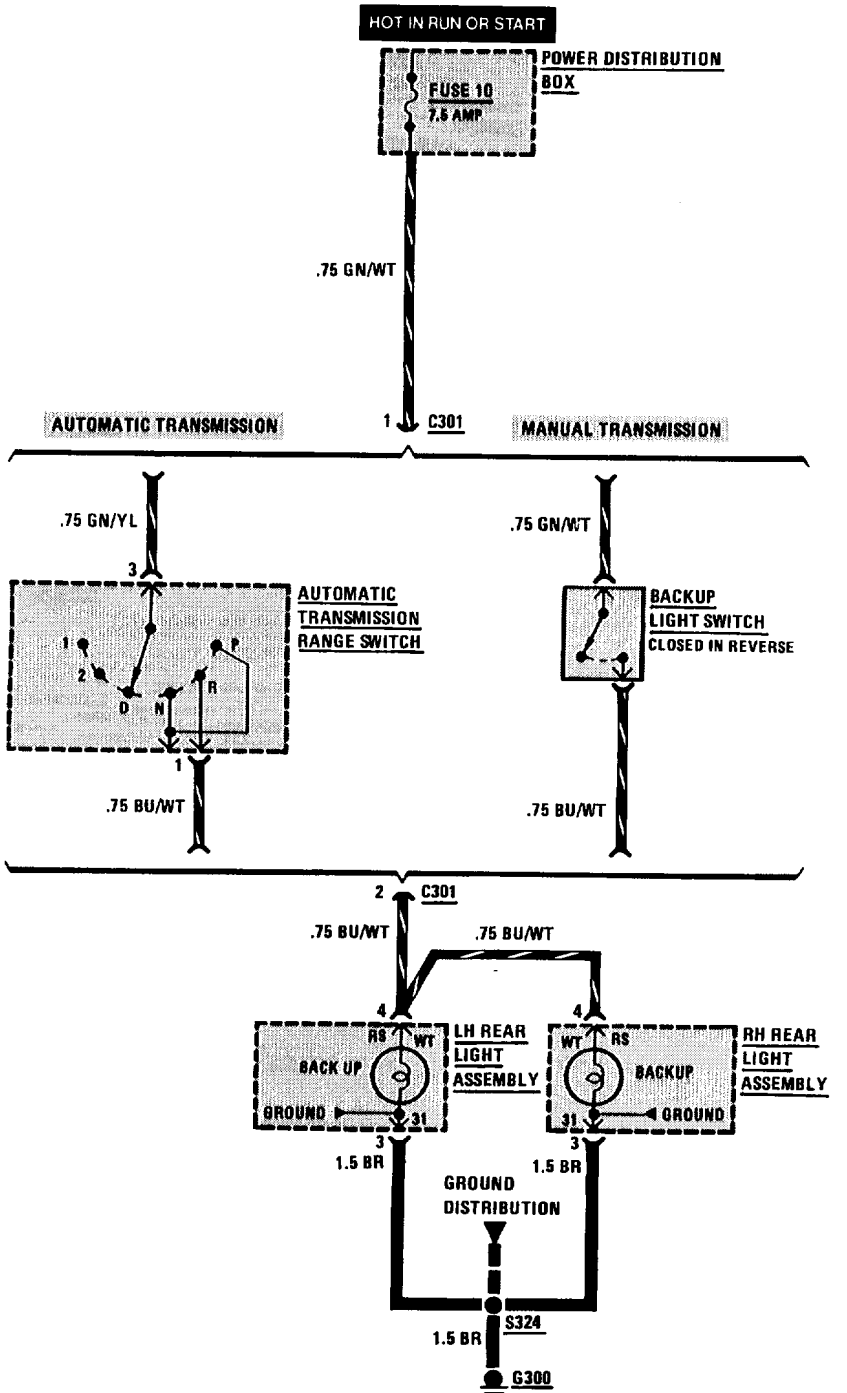


6320-0 REAR MARKER/LICENSE/TRUNK LIGHTS

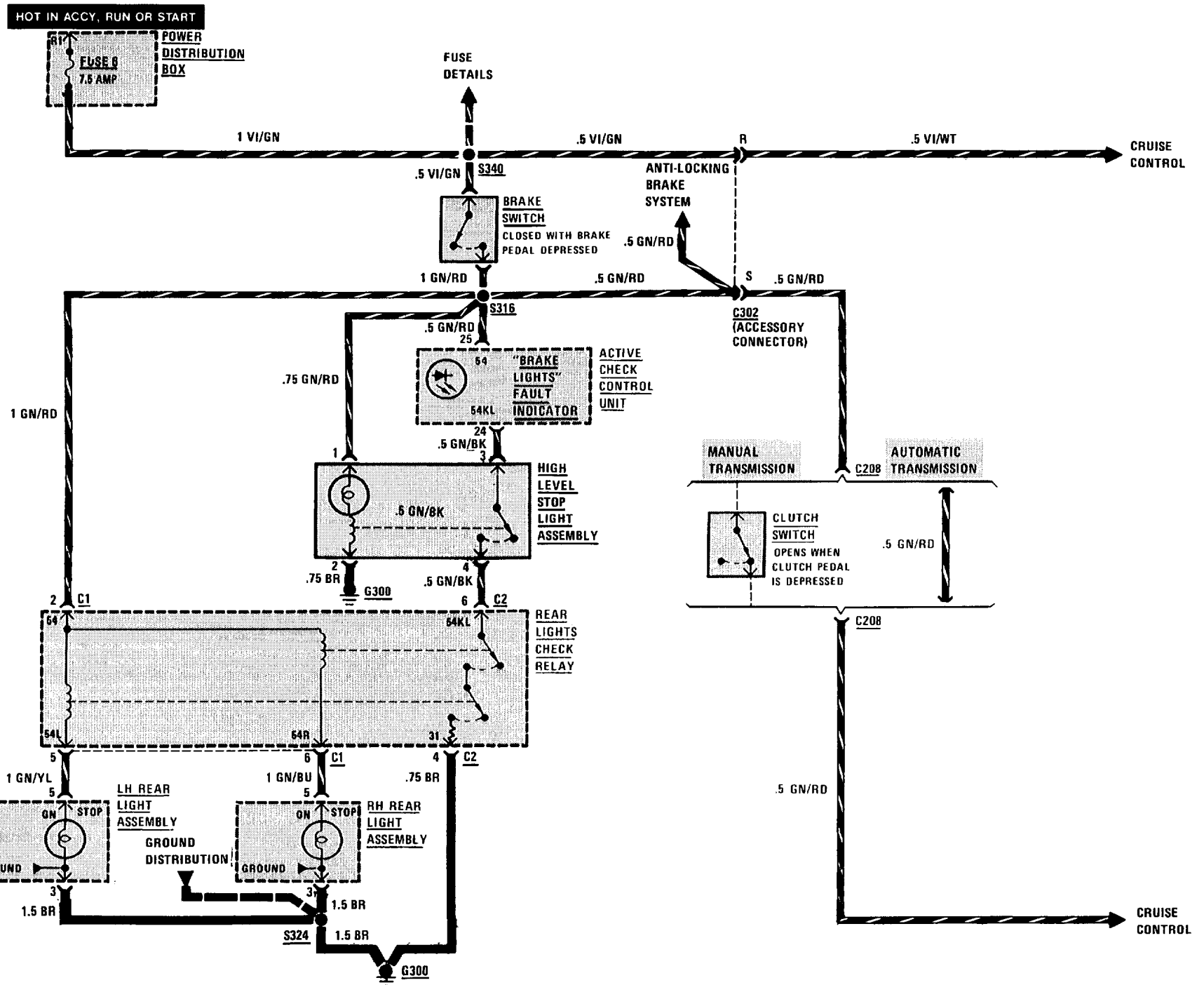




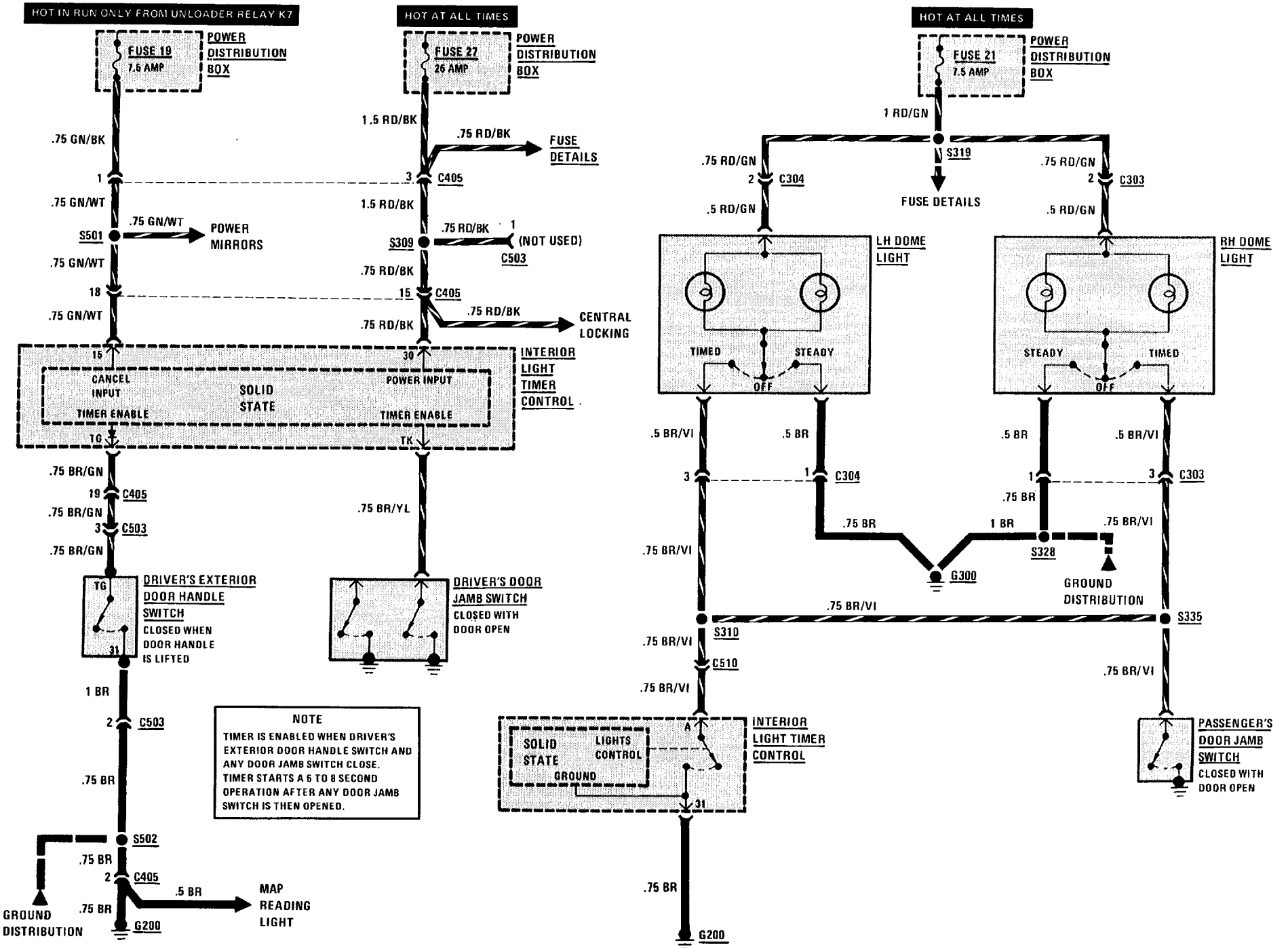
6322-0 BACK UP LIGHTS



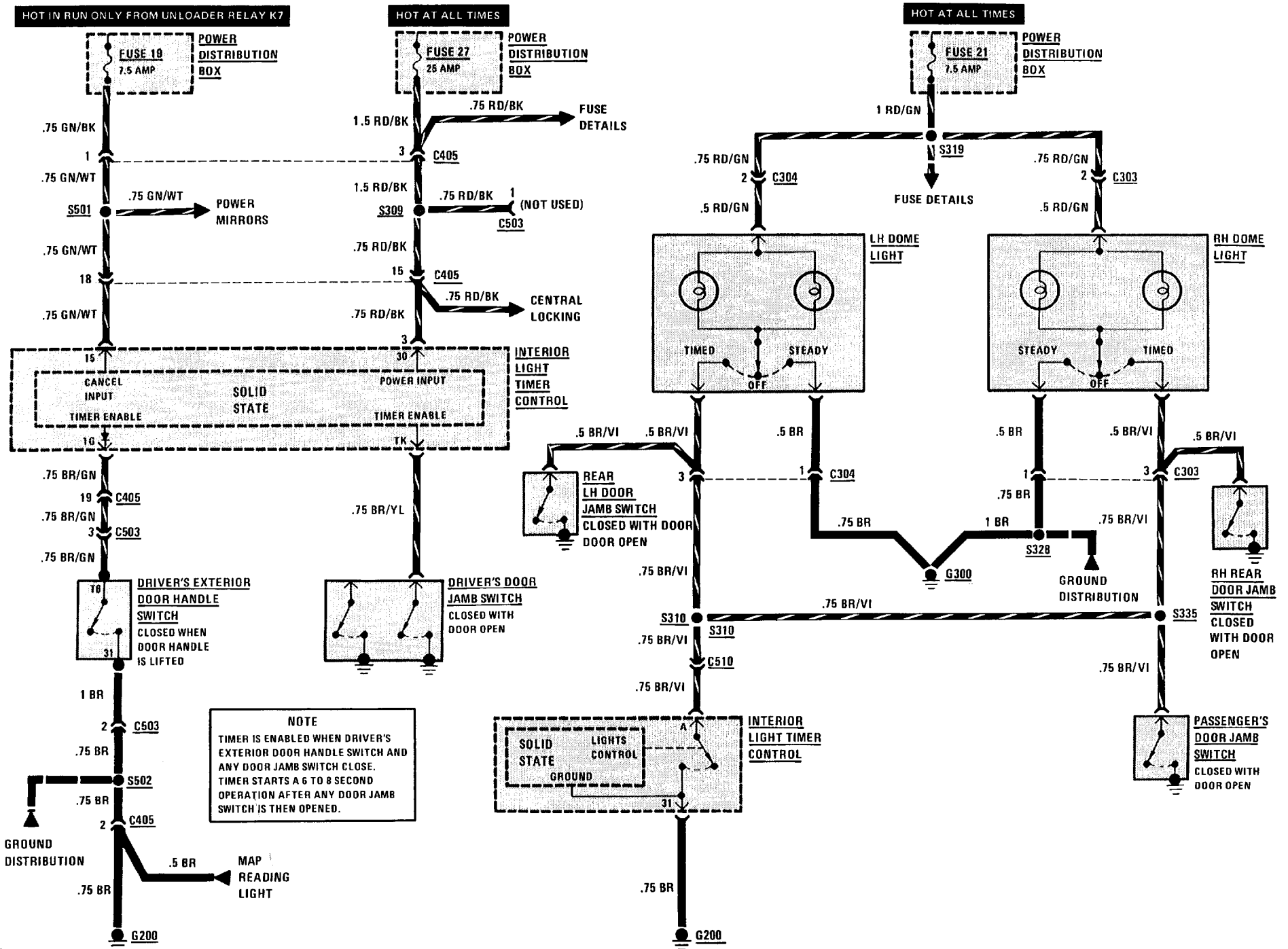
6325-0 STOP LIGHTS



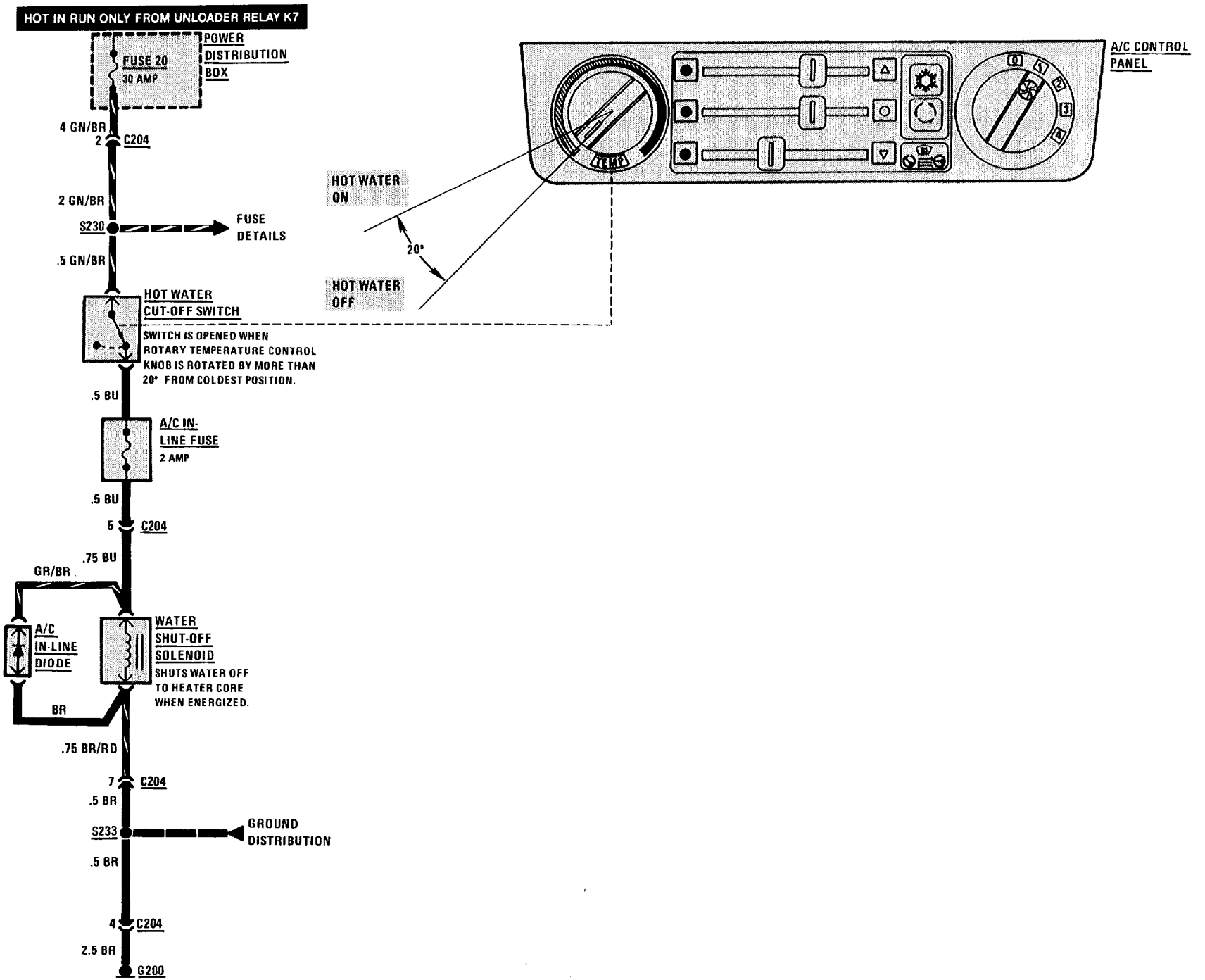
2 DOOR


HOT IN RUN ONLY FROM UNLOADER RELAY K7
FUSE 19
7.5 AMP
POWER DISTRIBUTION BOX
.75 GN/BK
1
.75 GN/WT
S501
.75 GN/WT
POWER MIRRORS
.75 GN/WT
18
.75 GN/WT
HOT AT ALL TIMES
FUSE 27
26 AMP
POWER DISTRIBUTION BOX
1.5 RD/BK
.75 RD/BK
FUSE DETAILS
3
C405
1.5 RD/BK
S309
.75 RD/BK
1
(NOT USED)
C503
.75 RD/BK
15
C405
.75 RD/BK
.75 RD/BK
CENTRAL LOCKING
15
30
CANCEL INPUT
TIMER ENABLE
SOLID STATE
POWER INPUT
TIMER ENABLE
INTERIOR LIGHT TIMER CONTROL
TG
TK
.75 BR/GN
19
C405
.75 BR/GN
3
C503
.75 BR/GN
TG
31
DRIVER'S EXTERIOR DOOR HANDLE SWITCH
CLOSED WHEN DOOR HANDLE IS LIFTED
.75 BR/YL
DRIVER'S DOOR JAMB SWITCH
CLOSED WITH DOOR OPEN
1 BR
2
C503
.75 BR
S502
.75 BR
2
C405
.5 BR
MAP READING LIGHT
.75 BR
G200
GROUND DISTRIBUTION
NOTE
TIMER IS ENABLED WHEN DRIVER'S EXTERIOR DOOR HANDLE SWITCH AND ANY DOOR JAMB SWITCH CLOSE. TIMER STARTS A 6 TO 8 SECOND OPERATION AFTER ANY DOOR JAMB SWITCH IS THEN OPENED.
HOT AT ALL TIMES
FUSE 21
7.5 AMP
POWER DISTRIBUTION BOX
1 RD/GN
S319
FUSE DETAILS
.75 RD/GN
2
C304
.5 RD/GN
.75 RD/GN
2
C303
.5 RD/GN
LH DOME LIGHT
TIMED
STEADY
OFF
RH DOME LIGHT
STEADY
TIMED
OFF
.5 BR/VI
3
.5 BR
1
C304
.5 BR
1
.5 BR/VI
3
C303
.75 BR
.75 BR
1 BR
.75 BR/VI
.75 BR/VI
G300
S328
GROUND DISTRIBUTION
.75 BR/VI
S335
S310
.75 BR/VI
C510
.75 BR/VI
.75 BR/VI
SOLID STATE
LIGHTS CONTROL
GROUND
A
31
INTERIOR LIGHT TIMER CONTROL
PASSENGER'S DOOR JAMB SWITCH
CLOSED WITH DOOR OPEN
.75 BR
G200

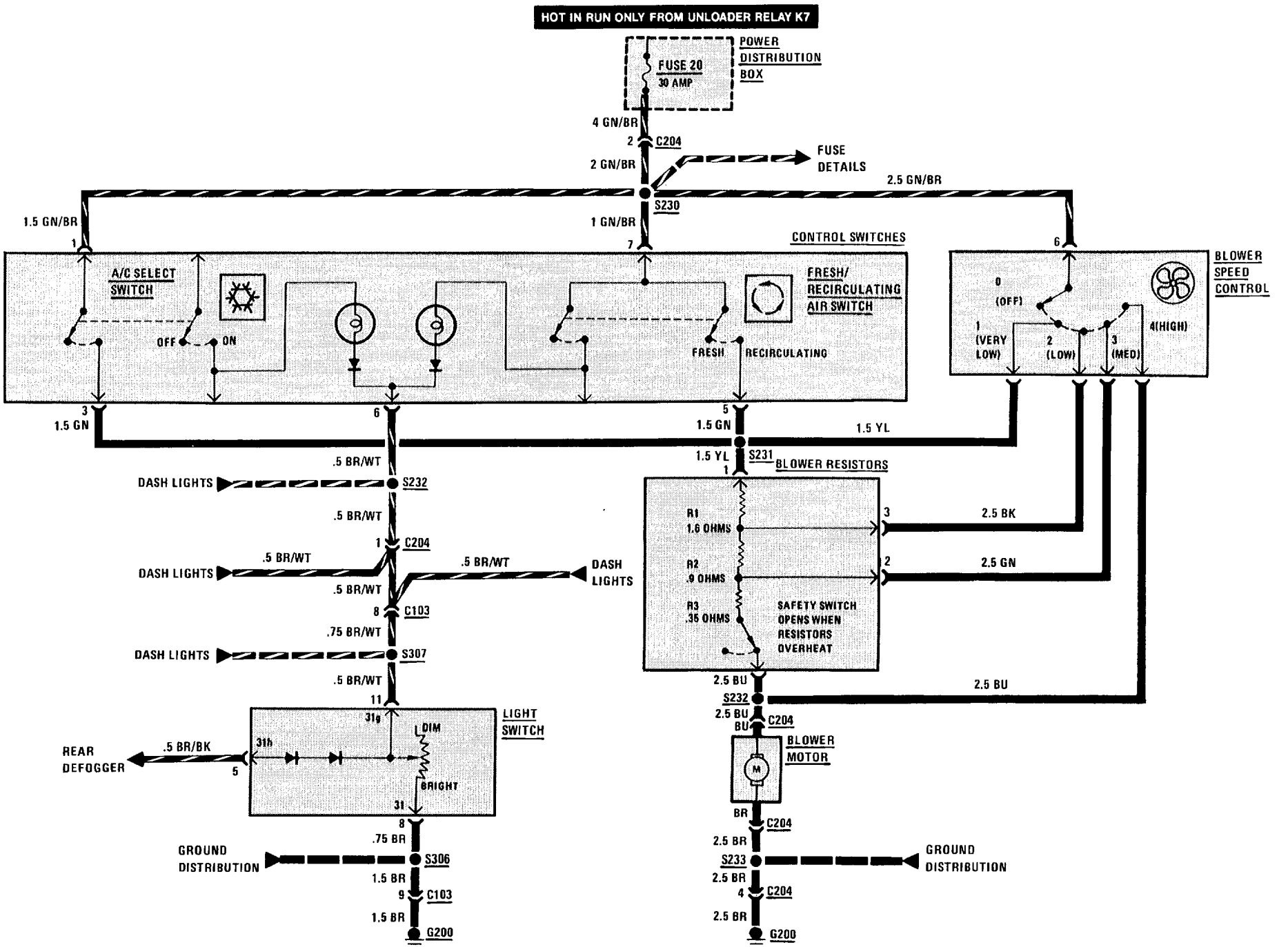
4 DOOR


HOT IN RUN ONLY FROM UNLOADER RELAY K7
HOT AT ALL TIMES
HOT AT ALL TIMES
FUSE 19
7.5 AMP
POWER DISTRIBUTION BOX
FUSE 27
25 AMP
POWER DISTRIBUTION BOX
FUSE 21
7.5 AMP
POWER DISTRIBUTION BOX
.75 GN/BK
1
.75 GN/WT
S501
.75 GN/WT
POWER MIRRORS
.75 GN/WT
18
.75 GN/WT
1.5 RD/BK
3
C405
.75 RD/BK
FUSE DETAILS
1.5 RD/BK
S309
.75 RD/BK
1
(NOT USED)
C503
.75 RD/BK
15
C405
.75 RD/BK
CENTRAL LOCKING
.75 RD/BK
3
1 RD/GN
S319
FUSE DETAILS
.75 RD/GN
2
C304
.5 RD/GN
.75 RD/GN
2
C303
.5 RD/GN
LH DOME LIGHT
TIMED
STEADY
OFF
RH DOME LIGHT
STEADY
TIMED
OFF
INTERIOR LIGHT TIMER CONTROL
15
CANCEL INPUT
SOLID STATE
TIMER ENABLE
30
POWER INPUT
TIMER ENABLE
1G
TK
.5 BR/VI
.5 BR/VI
.5 BR
.5 BR
.5 BR/VI
.5 BR/VI
.75 BR/GN
19
C405
.75 BR/GN
3
C503
.75 BR/GN
.75 BR/YL
REAR LH DOOR JAMB SWITCH CLOSED WITH DOOR OPEN
3
1
C304
1
3
C303
.75 BR
.75 BR
1 BR
.75 BR/VI
DOOR OPEN
T6
31
DRIVER'S EXTERIOR DOOR HANDLE SWITCH
CLOSED WHEN DOOR HANDLE IS LIFTED
DRIVER'S DOOR JAMB SWITCH
CLOSED WITH DOOR OPEN
G300
S328
GROUND DISTRIBUTION
.75 BR/VI
.75 BR/VI
RH REAR DOOR JAMB SWITCH CLOSED WITH DOOR OPEN
S310
S310
S335
.75 BR/VI
.75 BR/VI
C510
.75 BR/VI
.75 BR/VI
1 BR
2
C503
.75 BR
S502
.75 BR
2
C405
GROUND DISTRIBUTION
.5 BR
.75 BR
MAP READING LIGHT
G200
NOTE
TIMER IS ENABLED WHEN DRIVER'S EXTERIOR DOOR HANDLE SWITCH AND ANY DOOR JAMB SWITCH CLOSE. TIMER STARTS A 6 TO 8 SECOND OPERATION AFTER ANY DOOR JAMB SWITCH IS THEN OPENED.
A
SOLID STATE
LIGHTS CONTROL
GROUND
31
INTERIOR LIGHT TIMER CONTROL
.75 BR
G200
PASSENGER'S DOOR JAMB SWITCH
CLOSED WITH DOOR OPEN

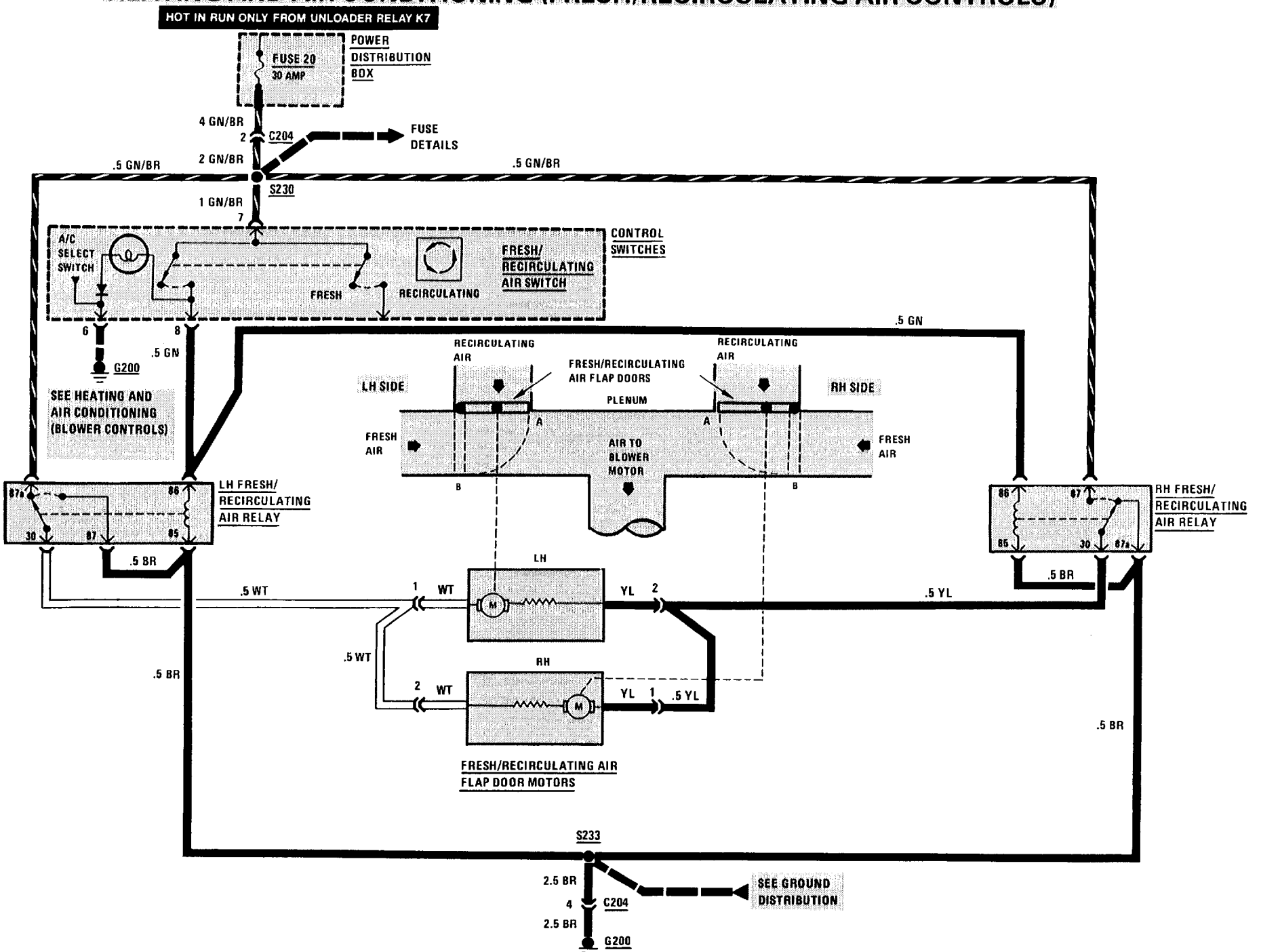
HEATING AND AIR CONDITIONING (HOT WATER CONTROL)



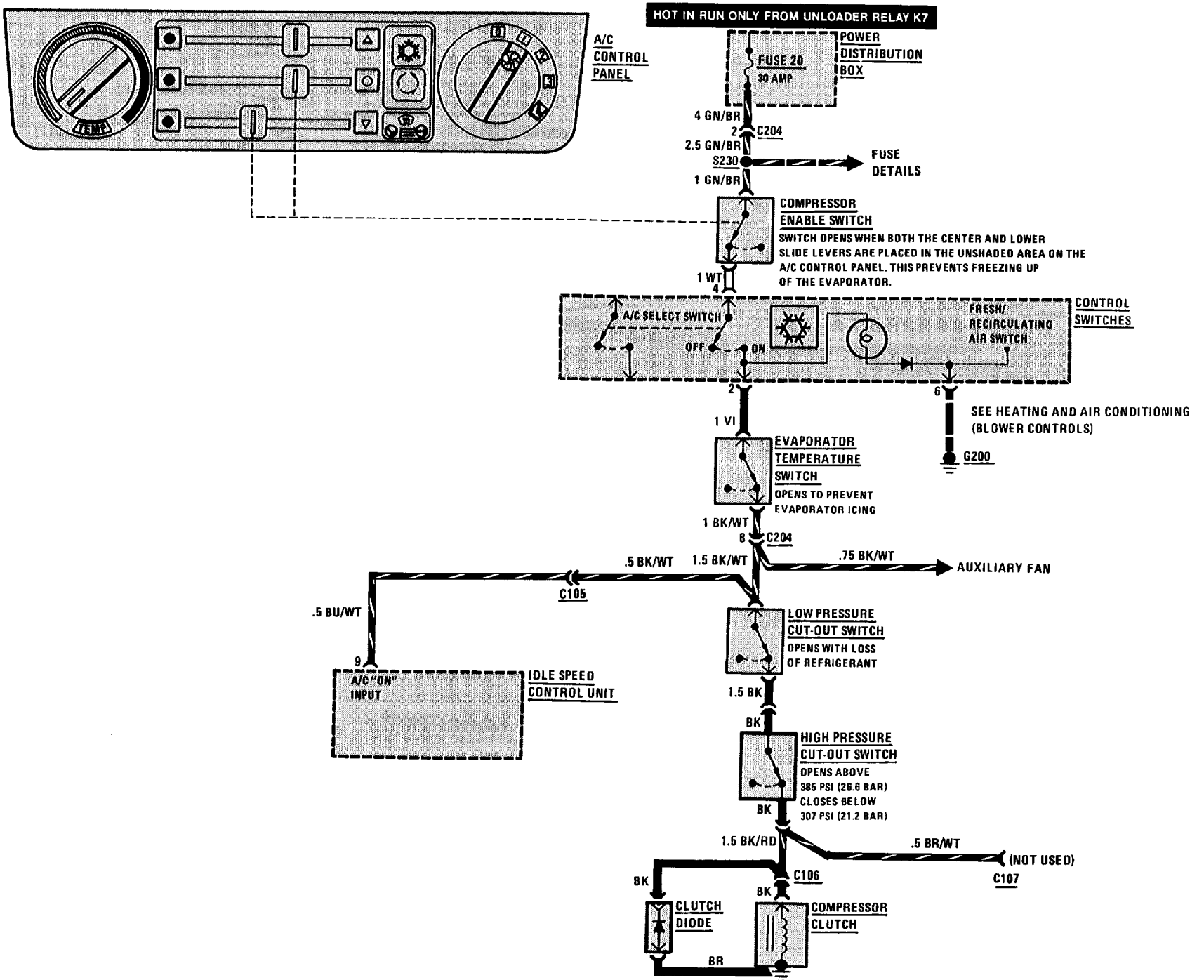
HEATING AND AIR CONDITIONING (BLOWER CONTROLS)



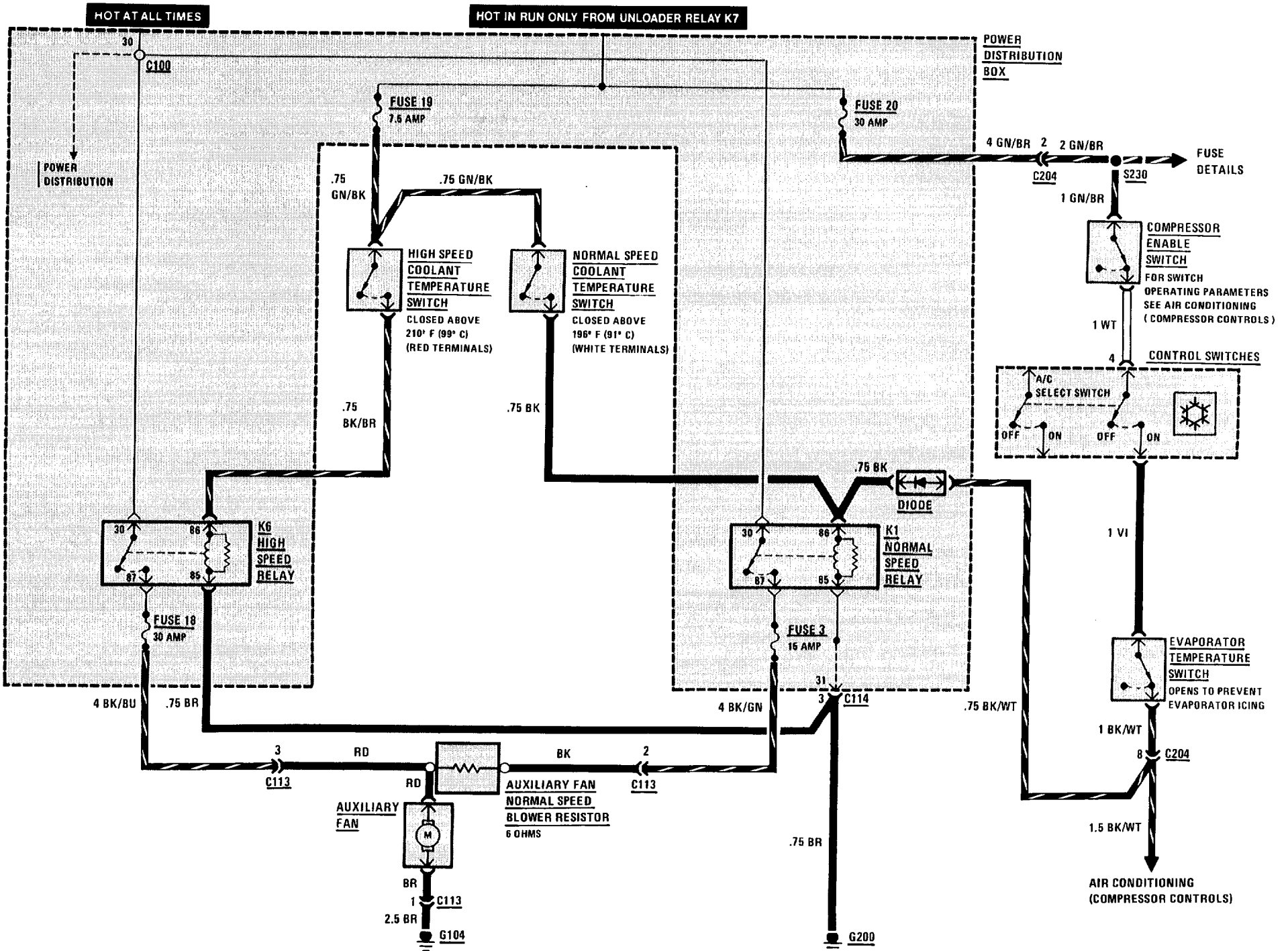
HEATING AND AIR CONDITIONING (FRESH/RECIRCULATING AIR CONTROLS)

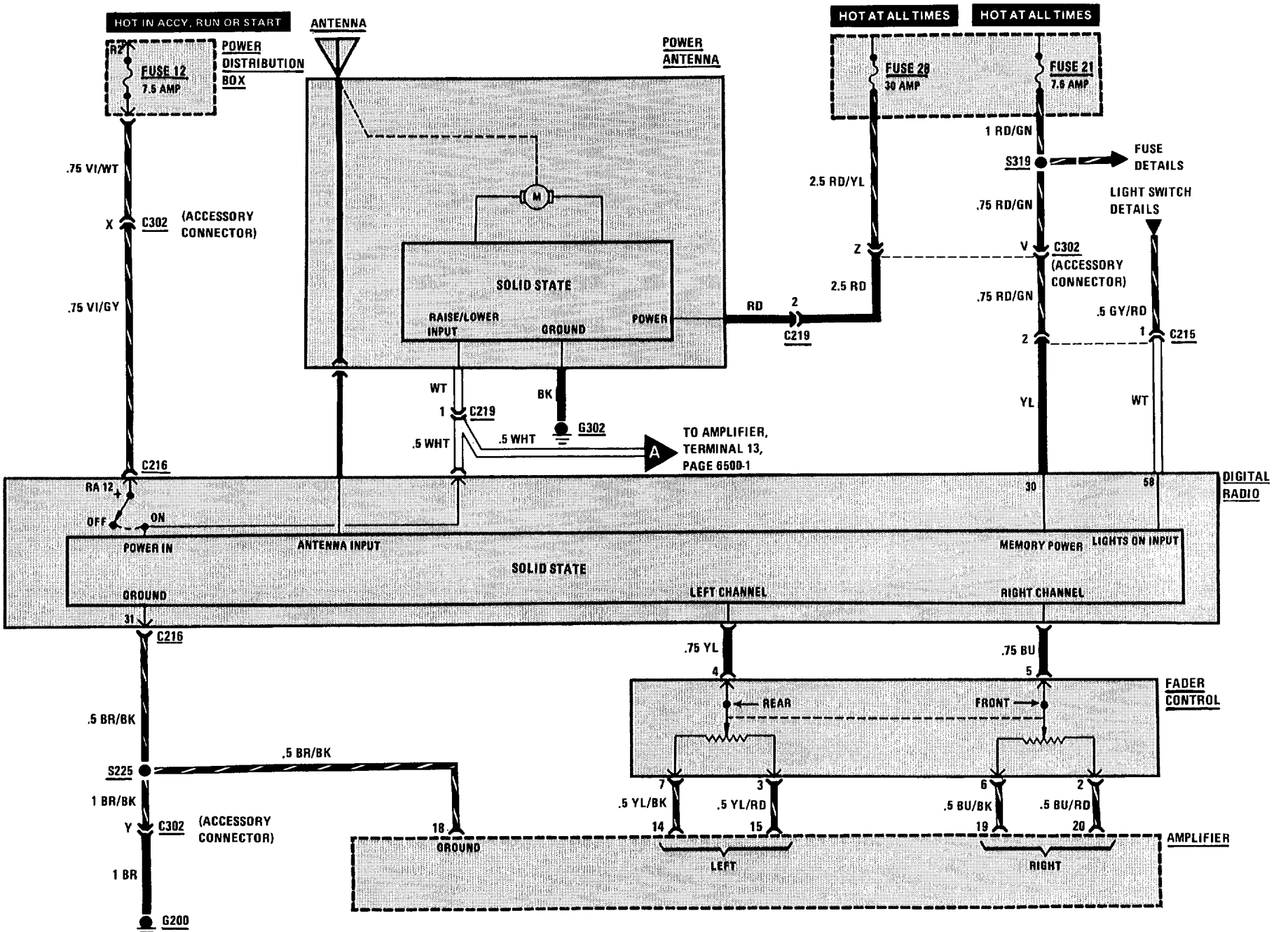


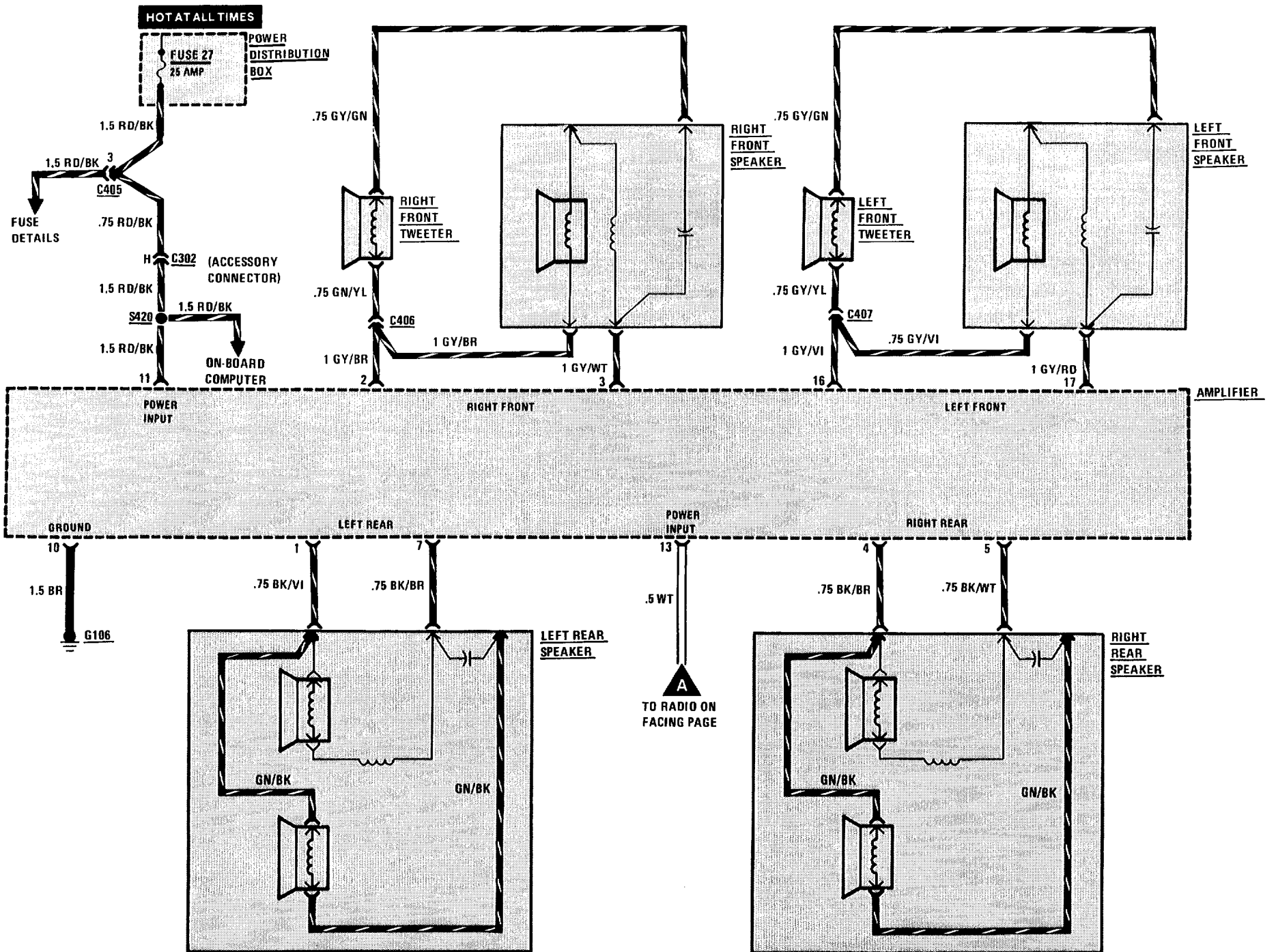
HEATING AND AIR CONDITIONING (COMPRESSOR CONTROLS)

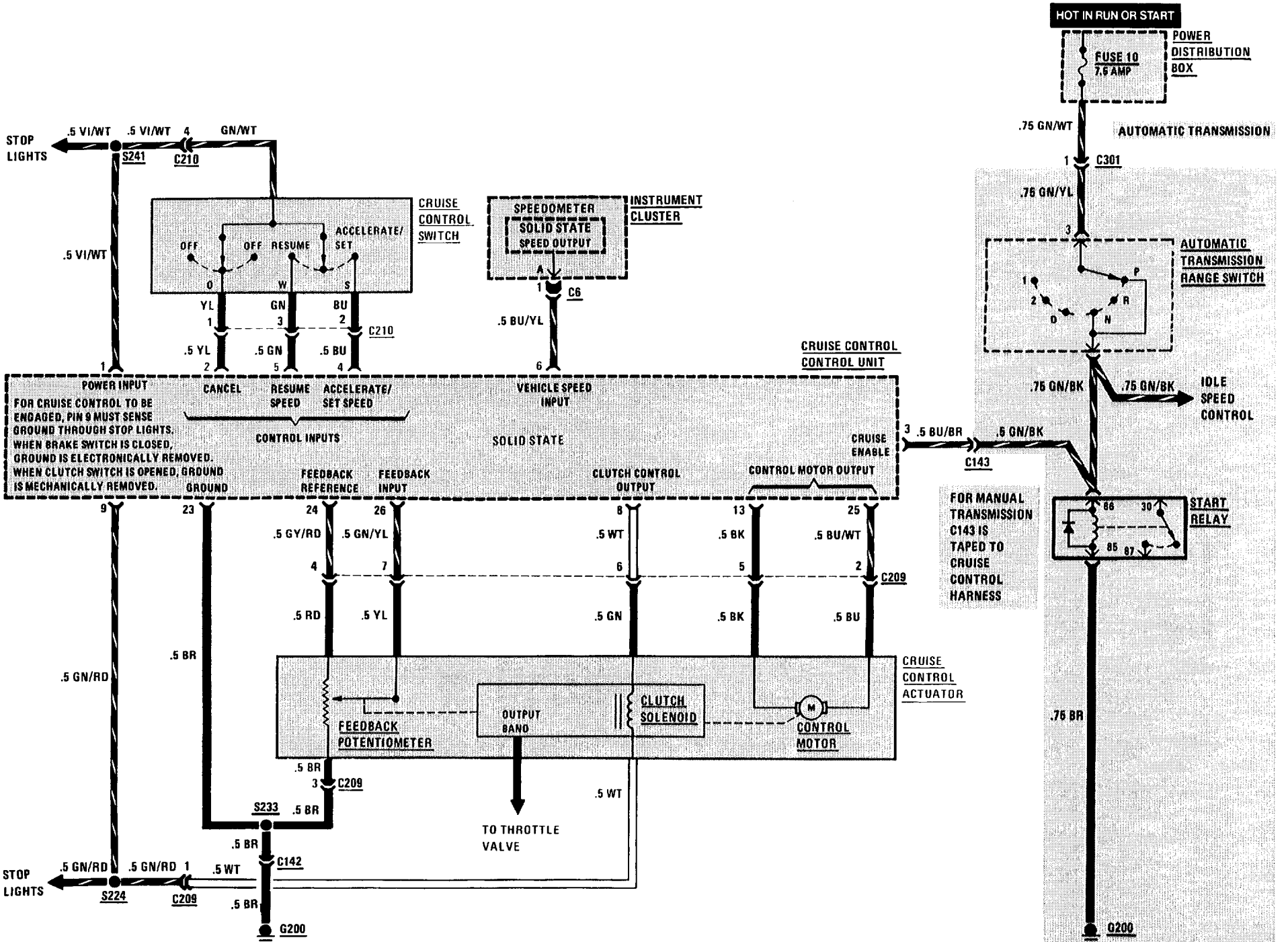


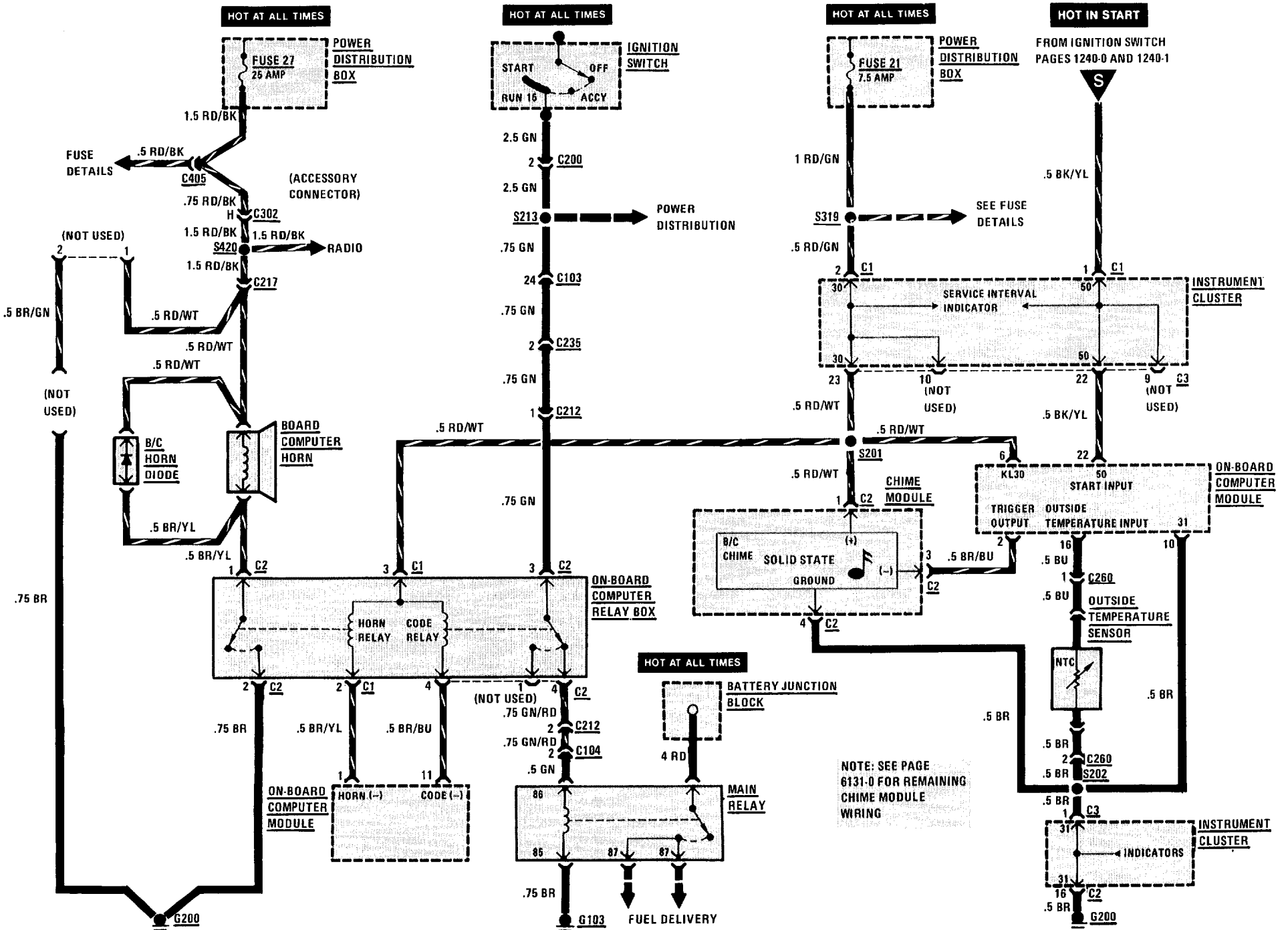
6454-0 AUXILIARY FAN

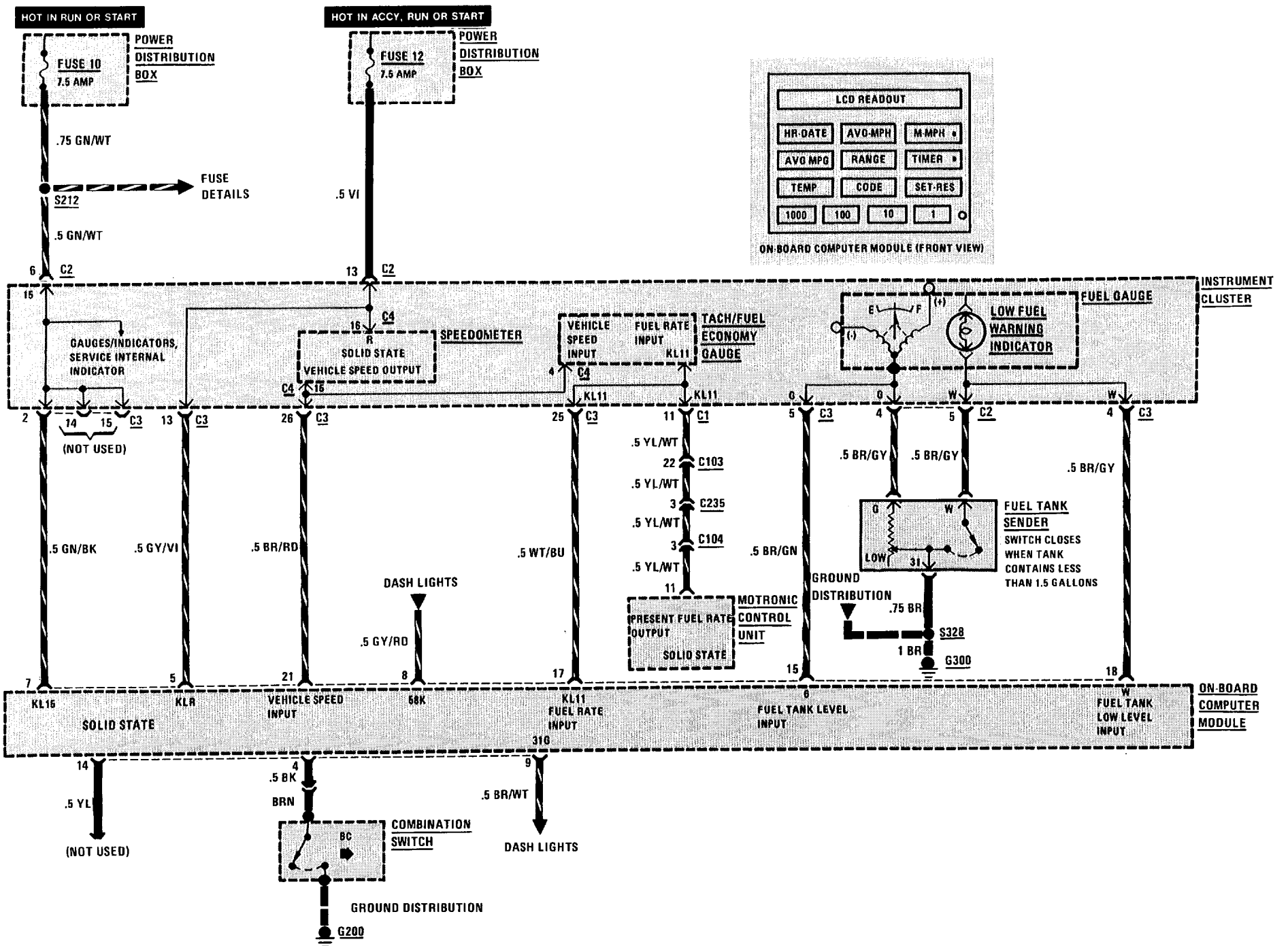


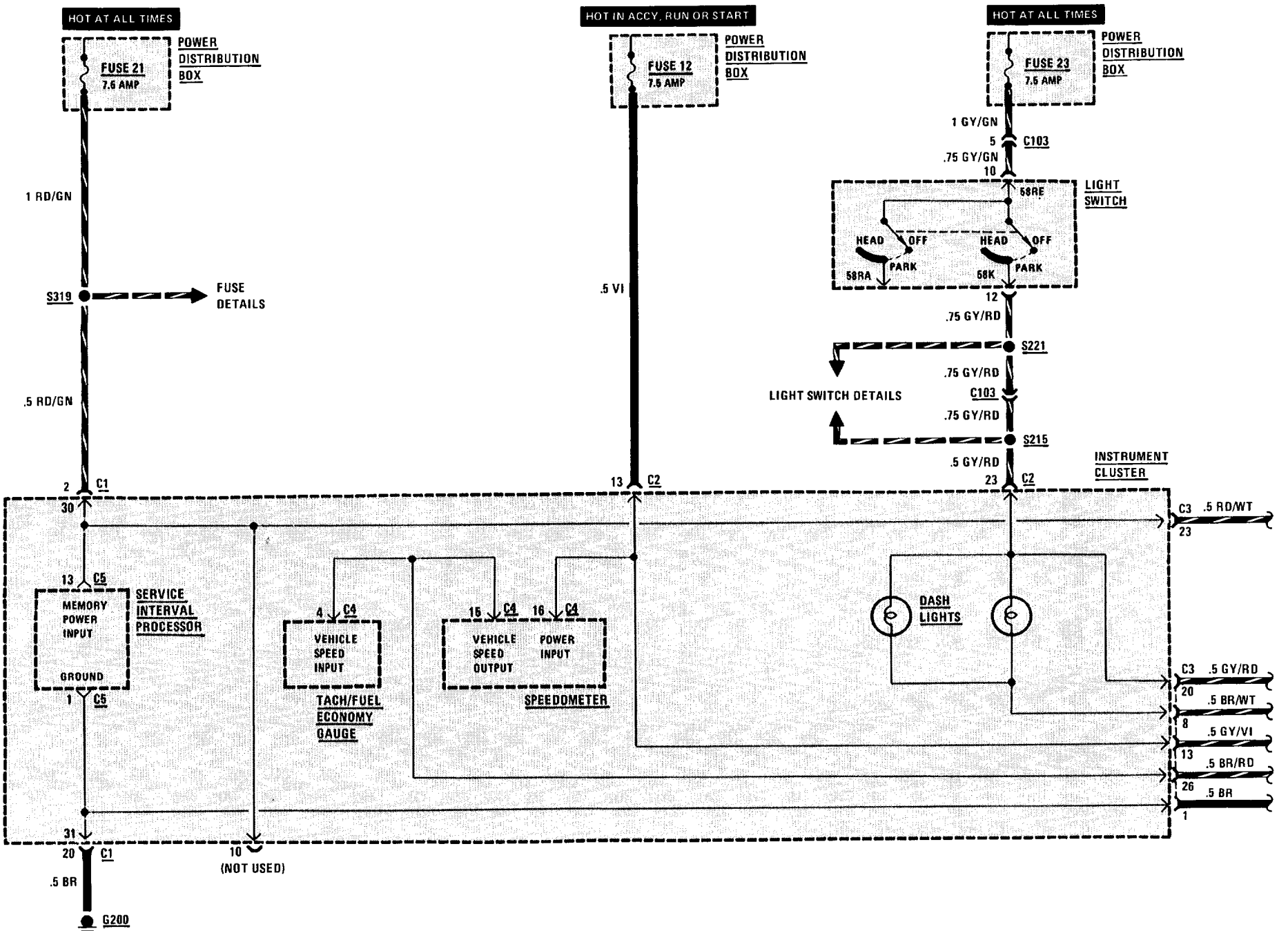

HOT IN ACCY, RUN OR START
ANTENNA
HOT AT ALL TIMES
HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 12
7.5 AMP
POWER ANTENNA
FUSE 28
30 AMP
FUSE 21
7.5 AMP
1 RD/GN
S319
FUSE DETAILS
.75 VI/WT
X
C302
(ACCESSORY CONNECTOR)
2.5 RD/YL
.75 RD/GN
LIGHT SWITCH DETAILS
SOLID STATE
RAISE/LOWER INPUT
GROUND
POWER
RD
2
C219
Z
2.5 RD
V
C302
(ACCESSORY CONNECTOR)
.75 RD/GN
.5 GY/RD
1
C215
.75 VI/GY
2
YL
WT
WT
1
C219
BK
G302
.5 WHT
.5 WHT
TO AMPLIFIER, TERMINAL 13, PAGE 6500-1
A
C216
RA 12
OFF
ON
30
58
DIGITAL RADIO
POWER IN
ANTENNA INPUT
SOLID STATE
MEMORY POWER
LIGHTS ON INPUT
GROUND
LEFT CHANNEL
RIGHT CHANNEL
31
C216
.75 YL
4
.75 BU
5
FADER CONTROL
REAR
FRONT
.5 BR/BK
.5 BR/BK
S225
7
3
6
2
1 BR/BK
.5 YL/BK
.5 YL/RD
.5 BU/BK
.5 BU/RD
Y
C302
(ACCESSORY CONNECTOR)
18
14
15
19
20
AMPLIFIER
GROUND
LEFT
RIGHT
1 BR
G200

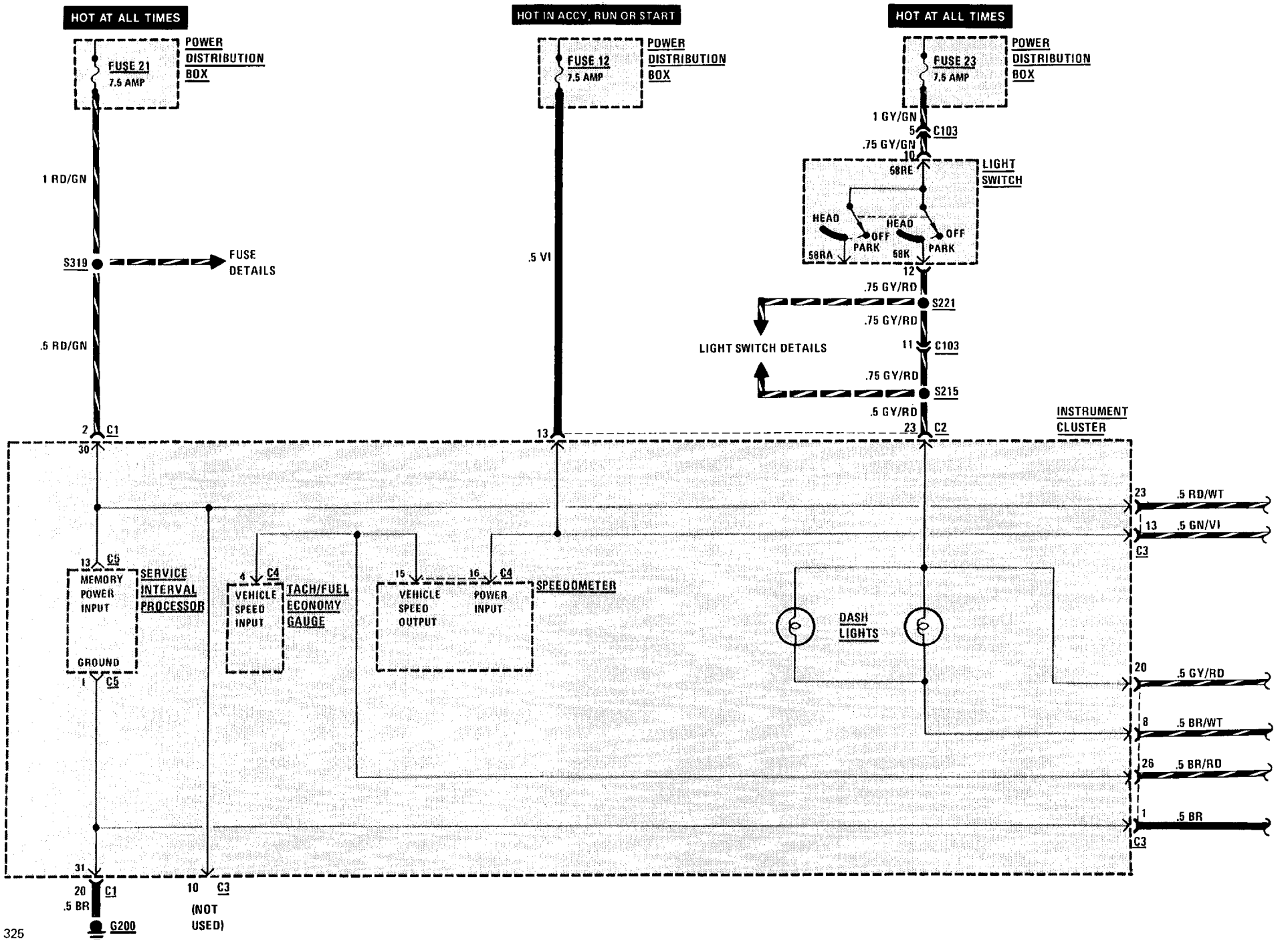

HOT AT ALL TIMES
FUSE 27
25 AMP
POWER DISTRIBUTION BOX
1.5 RD/BK
1.5 RD/BK
3
C405
FUSE DETAILS
.75 RD/BK
H
C302
(ACCESSORY CONNECTOR)
1.5 RD/BK
S420
1.5 RD/BK
1.5 RD/BK
11
ON-BOARD COMPUTER
POWER INPUT
.75 GY/GN
RIGHT FRONT TWEETER
RIGHT FRONT SPEAKER
.75 GN/YL
C406
1 GY/BR
1 GY/BR
2
1 GY/WT
3
RIGHT FRONT
.75 GY/GN
LEFT FRONT TWEETER
LEFT FRONT SPEAKER
.75 GY/YL
C407
.75 GY/VI
1 GY/VI
16
1 GY/RD
17
LEFT FRONT
AMPLIFIER
GROUND
10
1.5 BR
G106
LEFT REAR
1
.75 BK/VI
7
.75 BK/BR
LEFT REAR SPEAKER
GN/BK
GN/BK
POWER INPUT
13
.5 WT
A
TO RADIO ON FACING PAGE
RIGHT REAR
4
.75 BK/BR
5
.75 BK/WT
RIGHT REAR SPEAKER
GN/BK
GN/BK

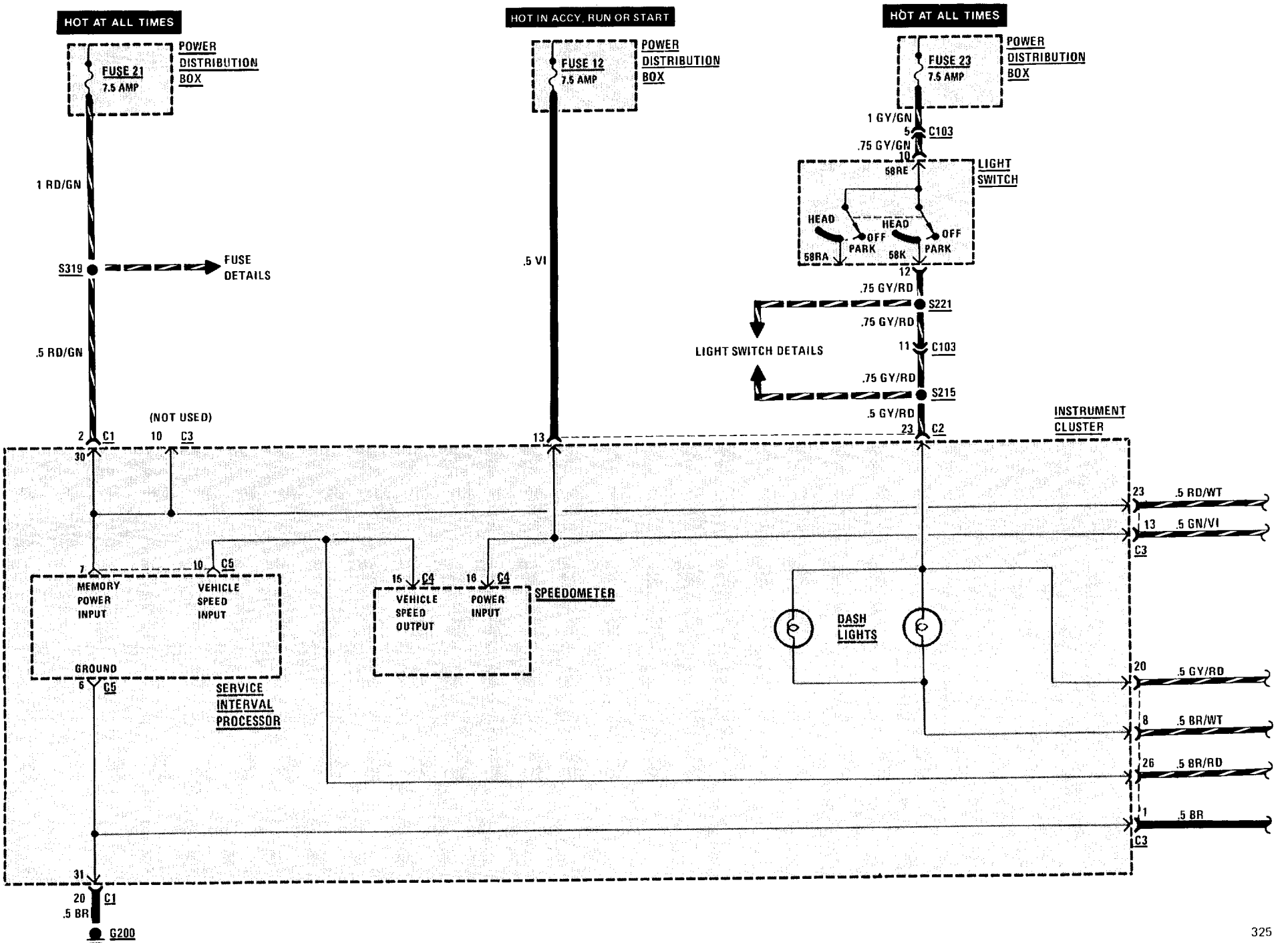

HOT IN RUN OR START
FUSE 10
7.5 AMP
POWER DISTRIBUTION BOX
.75 GN/WT
AUTOMATIC TRANSMISSION
C301
.75 GN/YL
AUTOMATIC TRANSMISSION RANGE SWITCH
P
R
N
D
2
1
.75 GN/BK
IDLE SPEED CONTROL
STOP LIGHTS
.5 VI/WT
.5 VI/WT
4
GN/WT
S241
C210
CRUISE CONTROL SWITCH
OFF
OFF
RESUME
ACCELERATE/ SET
O
W
S
YL
GN
BU
SPEEDOMETER
SOLID STATE SPEED OUTPUT
INSTRUMENT CLUSTER
A
C6
.5 BU/YL
CRUISE CONTROL CONTROL UNIT
POWER INPUT
FOR CRUISE CONTROL TO BE ENGAGED, PIN 9 MUST SENSE GROUND THROUGH STOP LIGHTS. WHEN BRAKE SWITCH IS CLOSED, GROUND IS ELECTRONICALLY REMOVED. WHEN CLUTCH SWITCH IS OPENED, GROUND IS MECHANICALLY REMOVED.
CANCEL
RESUME SPEED
ACCELERATE/ SET SPEED
CONTROL INPUTS
VEHICLE SPEED INPUT
SOLID STATE
CRUISE ENABLE
.5 BU/BR
.5 GN/BK
C143
FOR MANUAL TRANSMISSION C143 IS TAPED TO CRUISE CONTROL HARNESS
START RELAY
86
30
85
87
.5 YL
.5 GN
.5 BU
.5 RD
.5 GY/RD
.5 GN/YL
.5 WT
.5 BK
.5 BU/WT
C209
GROUND
FEEDBACK REFERENCE
FEEDBACK INPUT
CLUTCH CONTROL OUTPUT
CONTROL MOTOR OUTPUT
.5 BR
.5 GN/RD
CRUISE CONTROL ACTUATOR
FEEDBACK POTENTIOMETER
OUTPUT BAND
CLUTCH SOLENOID
CONTROL MOTOR
M
.5 BR
C209
S233
.5 BR
.5 WT
TO THROTTLE VALVE
.5 BR
C142
STOP LIGHTS
.5 GN/RD
.5 GN/RD
S224
C209
.5 WT
.5 BR
G200
.76 BR
G200
325

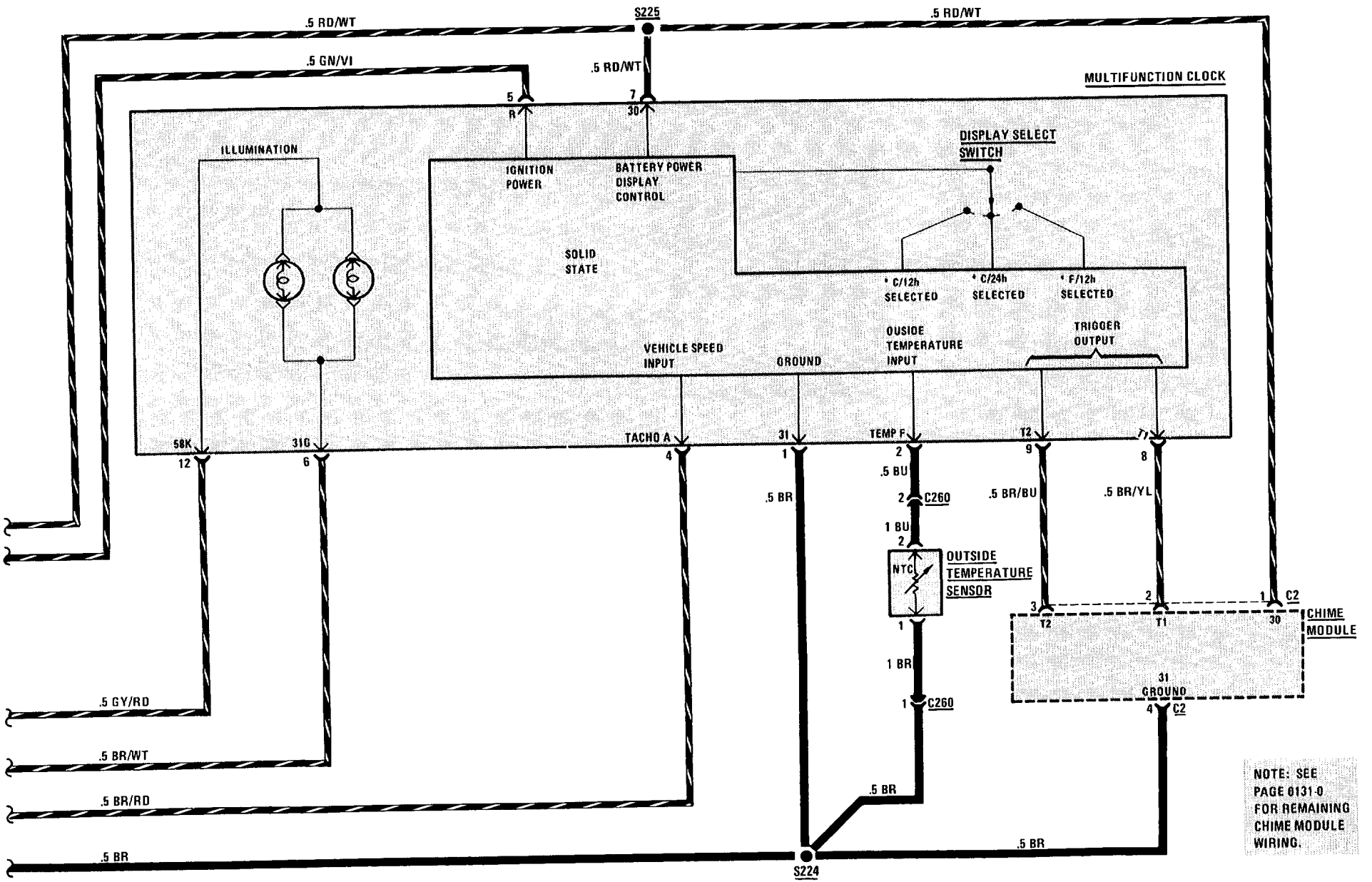

HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 27
25 AMP
1.5 RD/BK
FUSE DETAILS
.5 RD/BK
C405
(ACCESSORY CONNECTOR)
.75 RD/BK
H
C302
1.5 RD/BK
S420
RADIO
(NOT USED)
C217
.5 BR/GN
.5 RD/WT
(NOT USED)
B/C HORN DIODE
BOARD COMPUTER HORN
.5 BR/YL
.75 BR
G200
HOT AT ALL TIMES
IGNITION SWITCH
START
OFF
RUN 15
ACCY
2.5 GN
C200
S213
POWER DISTRIBUTION
.75 GN
C103
C235
C212
.5 RD/WT
.75 GN
ON-BOARD COMPUTER RELAY BOX
HORN RELAY
CODE RELAY
(NOT USED)
.75 GN/RD
C104
.5 GN
.5 BR/BU
ON-BOARD COMPUTER MODULE
HORN (–)
CODE (–)
HOT AT ALL TIMES
BATTERY JUNCTION BLOCK
4 RD
MAIN RELAY
86
85
87
.75 BR
G103
FUEL DELIVERY
HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 21
7.5 AMP
1 RD/GN
S319
SEE FUSE DETAILS
.5 RD/GN
HOT IN START
FROM IGNITION SWITCH
PAGES 1240-0 AND 1240-1
S
.5 BK/YL
INSTRUMENT CLUSTER
SERVICE INTERVAL INDICATOR
(NOT USED)
.5 RD/WT
.5 BK/YL
S201
CHIME MODULE
B/C CHIME
SOLID STATE
GROUND
.5 BR/BU
ON-BOARD COMPUTER MODULE
KL30
START INPUT
TRIGGER OUTPUT
OUTSIDE TEMPERATURE INPUT
.5 BU
C260
OUTSIDE TEMPERATURE SENSOR
NTC
.5 BR
S202
C3
INSTRUMENT CLUSTER
INDICATORS
G200
NOTE: SEE PAGE 6131-0 FOR REMAINING CHIME MODULE WIRING


HOT IN RUN OR START
FUSE 10
7.5 AMP
POWER DISTRIBUTION BOX
.75 GN/WT
FUSE DETAILS
S212
.5 GN/WT
6
C2
HOT IN ACCY, RUN OR START
FUSE 12
7.5 AMP
POWER DISTRIBUTION BOX
.5 VI
13
C2
LCD READOUT
HR-DATE
AVG-MPH
M-MPH
AVG MPG
RANGE
TIMER
TEMP
CODE
SET-RES
1000
100
10
1
ON-BOARD COMPUTER MODULE (FRONT VIEW)
INSTRUMENT CLUSTER
GAUGES/INDICATORS, SERVICE INTERNAL INDICATOR
SPEEDOMETER
SOLID STATE VEHICLE SPEED OUTPUT
VEHICLE SPEED INPUT
FUEL RATE INPUT
TACH/FUEL ECONOMY GAUGE
FUEL GAUGE
LOW FUEL WARNING INDICATOR
(NOT USED)
.5 GN/BK
.5 GY/VI
.5 BR/RD
.5 WT/BU
.5 YL/WT
C103
C235
C104
.5 BR/GN
.5 BR/GY
FUEL TANK SENDER
SWITCH CLOSES WHEN TANK CONTAINS LESS THAN 1.5 GALLONS
GROUND DISTRIBUTION
.75 BR
S328
1 BR
G300
DASH LIGHTS
.5 GY/RD
PRESENT FUEL RATE OUTPUT
SOLID STATE
MOTRONIC CONTROL UNIT
KL15
KLR
VEHICLE SPEED INPUT
68K
KL11 FUEL RATE INPUT
FUEL TANK LEVEL INPUT
FUEL TANK LOW LEVEL INPUT
ON-BOARD COMPUTER MODULE
SOLID STATE
.5 YL
(NOT USED)
.5 BK
BRN
COMBINATION SWITCH
BC
GROUND DISTRIBUTION
G200
.5 BR/WT
DASH LIGHTS


HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 21 7.6 AMP
1 RD/GN
S319
FUSE DETAILS
.5 RD/GN
2 C1
30
HOT IN ACCY, RUN OR START
POWER DISTRIBUTION BOX
FUSE 12 7.5 AMP
.5 VI
13 C2
HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 23 7.5 AMP
1 GY/GN
5 C103
.75 GY/GN
10
LIGHT SWITCH
58RE
HEAD OFF PARK
58RA
HEAD OFF PARK
58K
12
.75 GY/RD
S221
LIGHT SWITCH DETAILS
.75 GY/RD
C103
.75 GY/RD
S215
.5 GY/RD
23 C2
INSTRUMENT CLUSTER
C3 .5 RD/WT
23
13 C5
MEMORY POWER INPUT
GROUND
1 C5
SERVICE INTERVAL PROCESSOR
4 C4
VEHICLE SPEED INPUT
TACH/FUEL ECONOMY GAUGE
15 C4
VEHICLE SPEED OUTPUT
16 C4
POWER INPUT
SPEEDOMETER
DASH LIGHTS
C3 .5 GY/RD
20
.5 BR/WT
8
.5 GY/VI
13
.5 BR/RD
26
.5 BR
1
31
20 C1
.5 BR
G200
10
(NOT USED)


HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 21
7.5 AMP
1 RD/GN
S319
FUSE DETAILS
.5 RD/GN
2 C1
30
HOT IN ACCY, RUN OR START
POWER DISTRIBUTION BOX
FUSE 12
7.5 AMP
.5 VI
13
HOT AT ALL TIMES
POWER DISTRIBUTION BOX
FUSE 23
7.5 AMP
1 GY/GN
5 C103
.75 GY/GN
10
LIGHT SWITCH
58RE
HEAD
OFF
PARK
58RA
HEAD
OFF
PARK
58K
12
.75 GY/RD
S221
.75 GY/RD
LIGHT SWITCH DETAILS
11 C103
.75 GY/RD
S215
.5 GY/RD
23 C2
INSTRUMENT CLUSTER
13 C5
MEMORY POWER INPUT
GROUND
1 C5
SERVICE INTERVAL PROCESSOR
4 C4
VEHICLE SPEED INPUT
TACH/FUEL ECONOMY GAUGE
15 C4
VEHICLE SPEED OUTPUT
16 C4
POWER INPUT
SPEEDOMETER
DASH LIGHTS
23 .5 RD/WT
13 .5 GN/VI
C3
20 .5 GY/RD
8 .5 BR/WT
26 .5 BR/RD
1 .5 BR
C3
31
20 C1
.5 BR
G200
10 C3
(NOT USED)


HOT AT ALL TIMES
FUSE 21
7.5 AMP
POWER DISTRIBUTION BOX
1 RD/GN
S319
FUSE DETAILS
.5 RD/GN
2 C1
(NOT USED)
10 C3
30
HOT IN ACCY, RUN OR START
FUSE 12
7.5 AMP
POWER DISTRIBUTION BOX
.5 VI
13
HOT AT ALL TIMES
FUSE 23
7.5 AMP
POWER DISTRIBUTION BOX
1 GY/GN
5 C103
.75 GY/GN
10
58RE
LIGHT SWITCH
HEAD
OFF
PARK
58RA
58K
12
.75 GY/RD
S221
LIGHT SWITCH DETAILS
11 C103
S215
.5 GY/RD
23 C2
INSTRUMENT CLUSTER
7
10 C5
MEMORY POWER INPUT
VEHICLE SPEED INPUT
GROUND
6 C5
SERVICE INTERVAL PROCESSOR
15 C4
16 C4
VEHICLE SPEED OUTPUT
POWER INPUT
SPEEDOMETER
DASH LIGHTS
23 .5 RD/WT
13 .5 GN/VI
C3
20 .5 GY/RD
8 .5 BR/WT
26 .5 BR/RD
1 .5 BR
C3
31
20 C1
.5 BR
G200


.5 RD/WT
S225
.5 RD/WT
.5 GN/VI
.5 RD/WT
MULTIFUNCTION CLOCK
5
R
7
30
ILLUMINATION
IGNITION POWER
BATTERY POWER DISPLAY CONTROL
DISPLAY SELECT SWITCH
SOLID STATE
* C/12h SELECTED
* C/24h SELECTED
* F/12h SELECTED
VEHICLE SPEED INPUT
GROUND
OUSIDE TEMPERATURE INPUT
TRIGGER OUTPUT
58K
12
31G
6
TACHO A
4
31
1
TEMP F
2
T2
9
7
8
.5 BU
.5 BR
2
C260
.5 BR/BU
.5 BR/YL
1 BU
2
NTC
OUTSIDE TEMPERATURE SENSOR
1
2
1
C2
3
T2
T1
30
CHIME MODULE
1 BR
1
C260
31
GROUND
4
C2
.5 GY/RD
.5 BR/WT
.5 BR/RD
.5 BR
.5 BR
.5 BR
S224
NOTE: SEE PAGE 0131-0 FOR REMAINING CHIME MODULE WIRING.

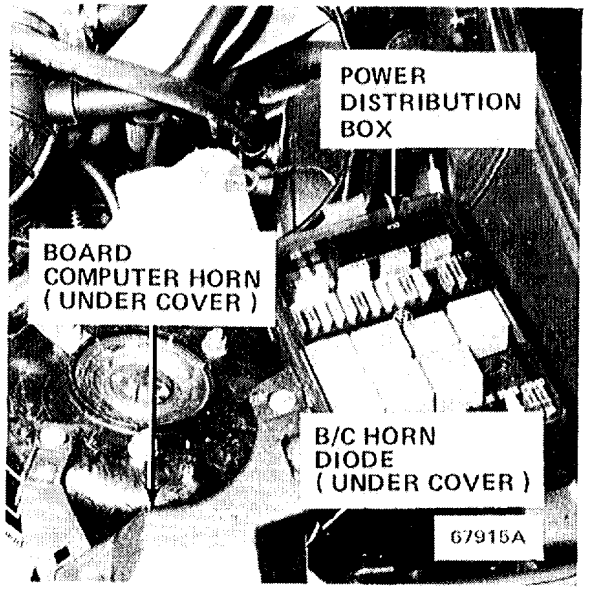


Figure 1 - LH Rear of Engine Compartment

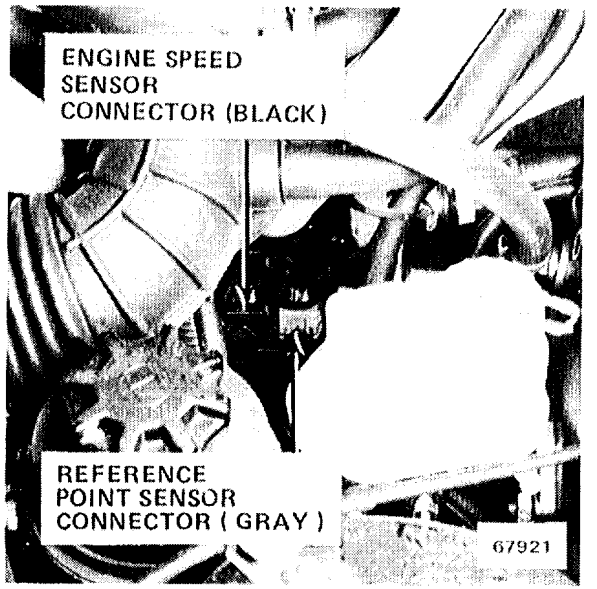


Figure 3 - Lower LH Rear of Engine

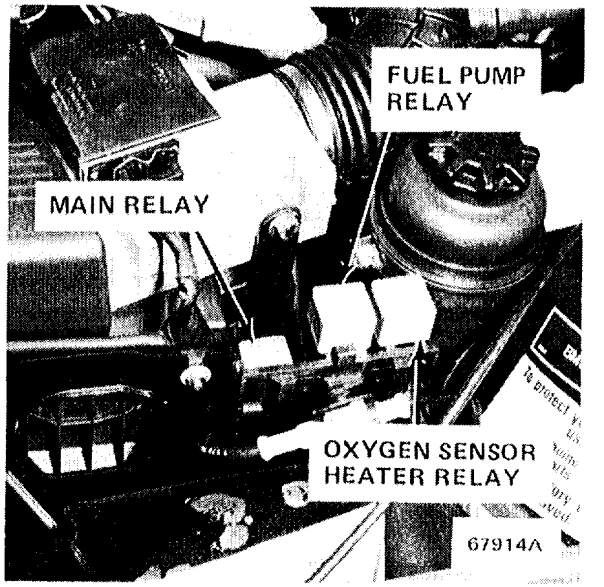


Figure 5 - Forward of LH Front Shock Tower (Relay Cover Removed)

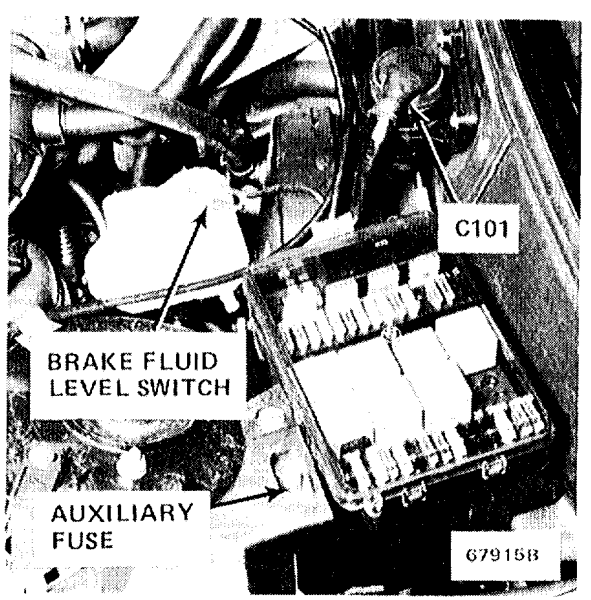


Figure 2 - LH Rear of Engine Compartment

Figure 4 - Top LH Side of Engine

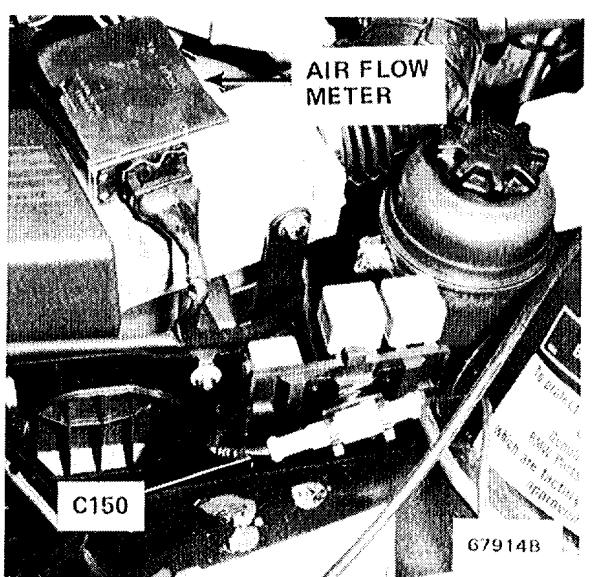


Figure 6 - Forward of LH Front Shock Tower

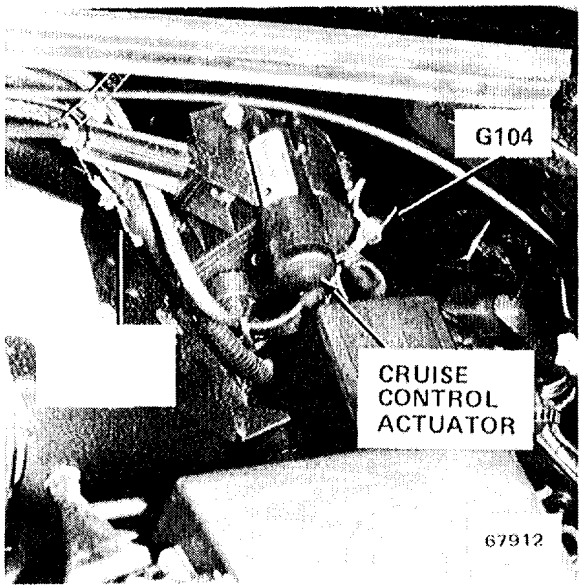


Figure 1 - Forward of LH Front Wheel Well

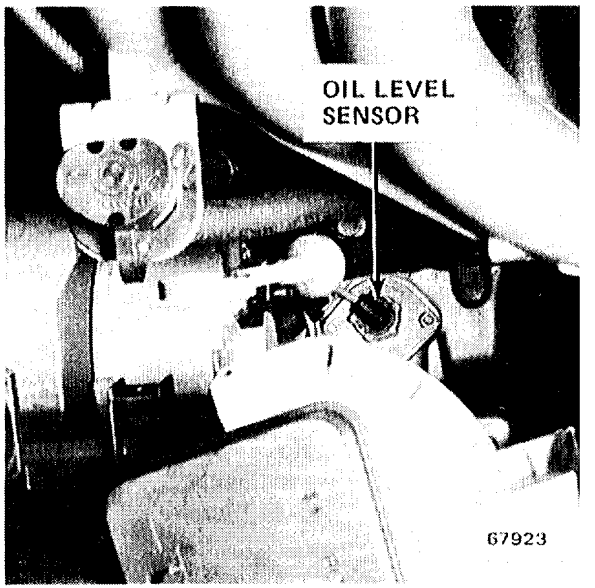


Figure 3 - Lower LH Side of Engine

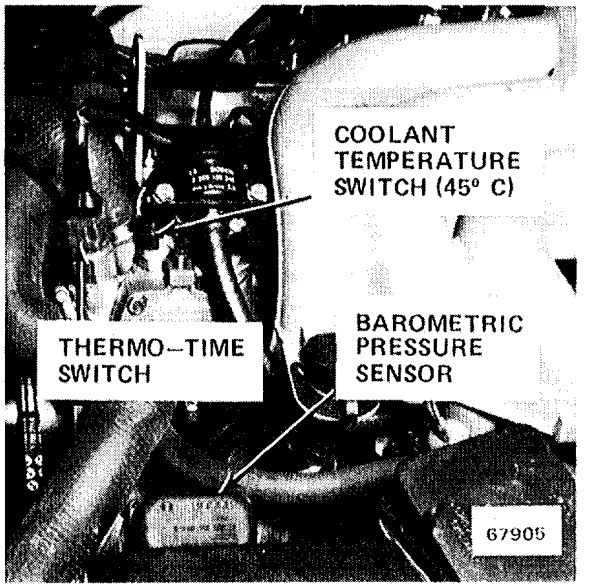


Figure 5 - Top Front of Engine

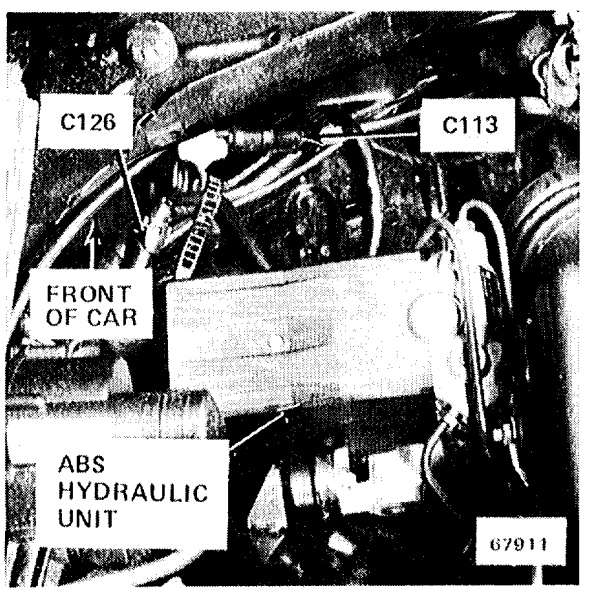


Figure 2 - LH Front of Engine Compartment (Cover Removed)

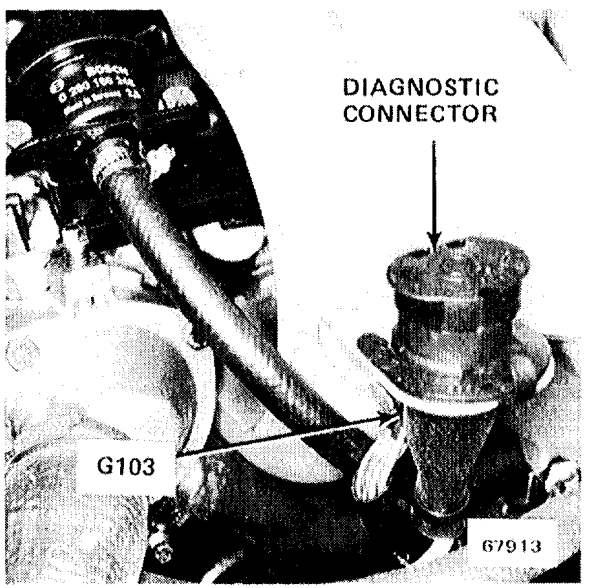


Figure 4 - Top LH Front of Engine

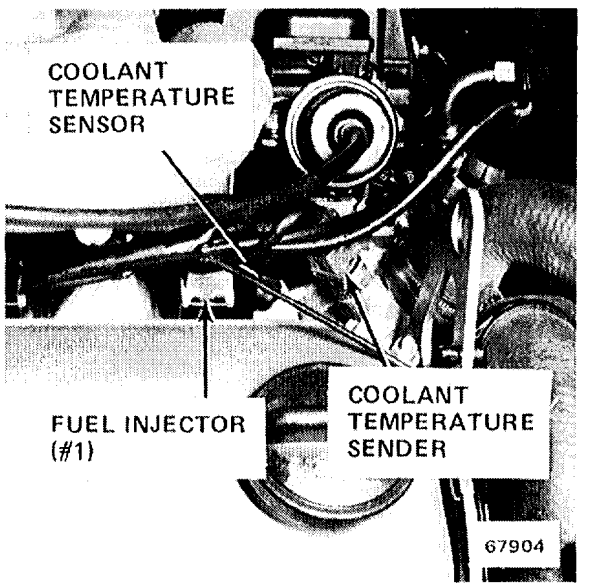


Figure 6 - Top Front of Engine

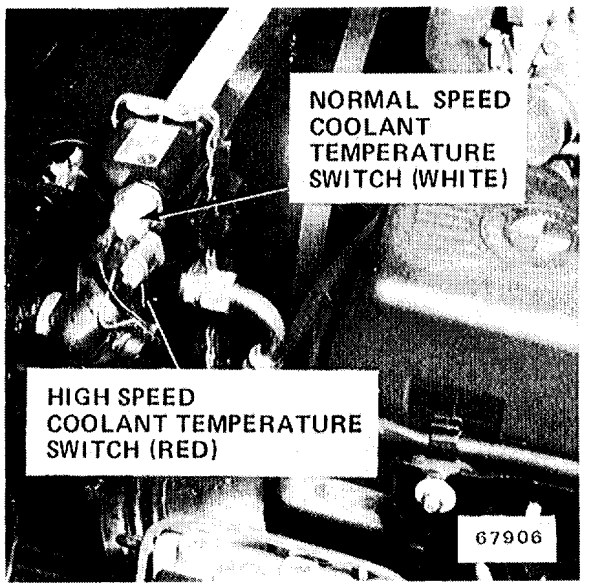


Figure 1 - Top LH Side of Radiator

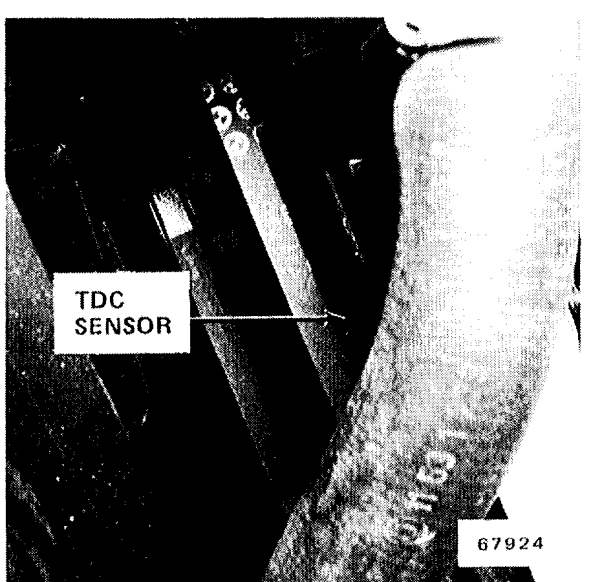


Figure 2 - Lower Front of Engine

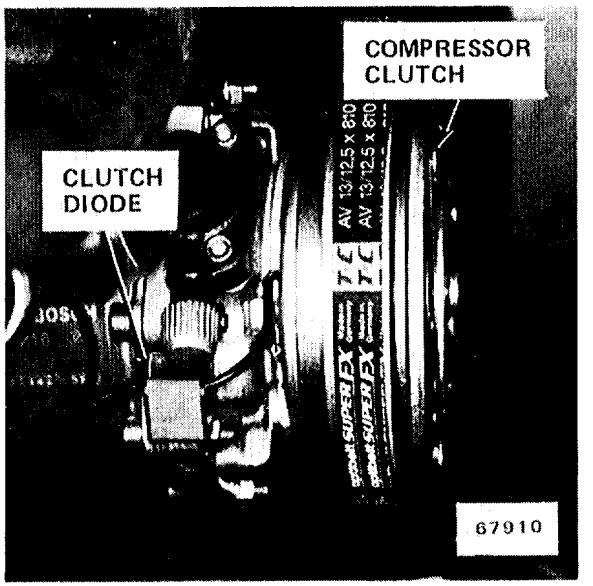


Figure 3 - Lower RH Front of Engine

Figure 4 - Lower RH Front of Engine

Figure 5 - Behind RH Headlights (Cover Removed)

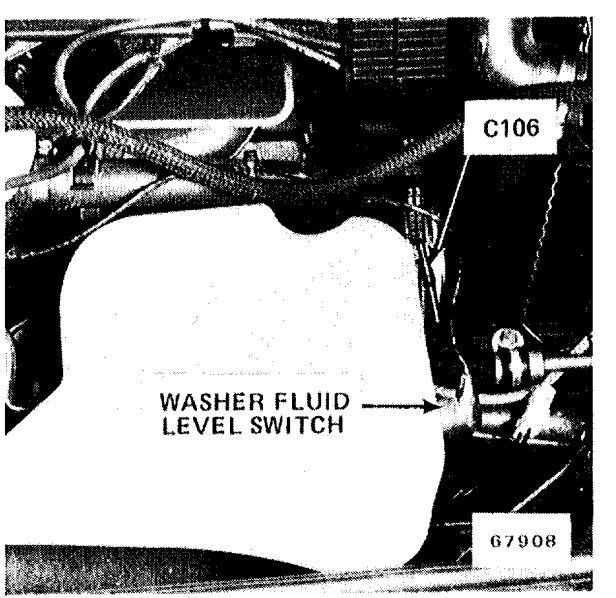


Figure 6 - RH Side of Engine Compartment

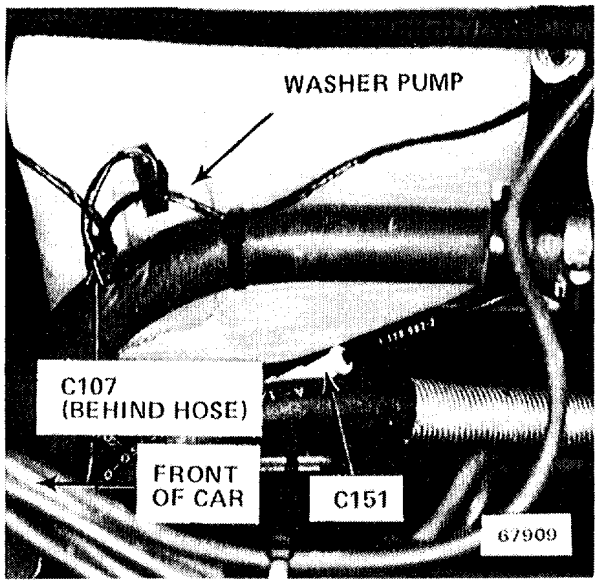


Figure 1 - RH Side of Engine Compartment

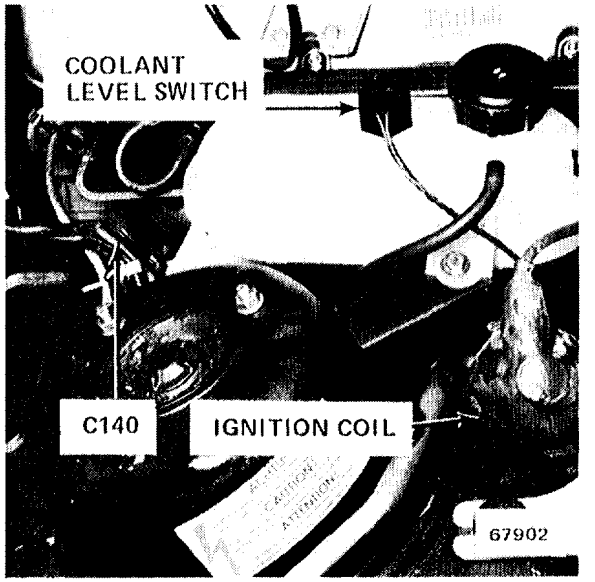


Figure 3 - RH Rear of Engine Compartment

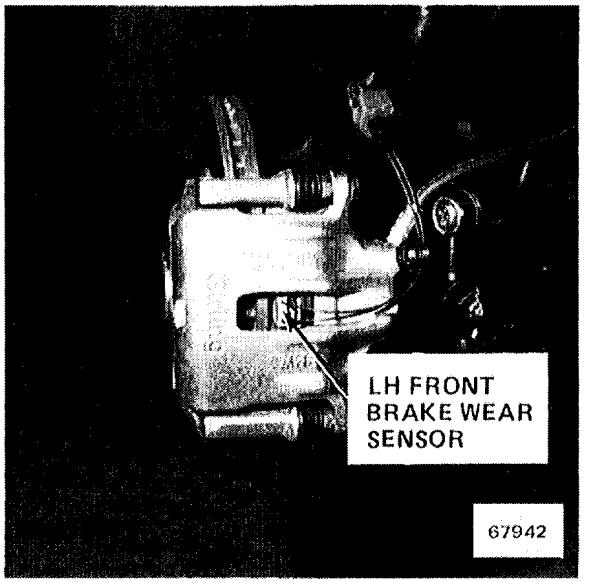


Figure 5 - LH Front Brake Assembly (Wheel Removed)

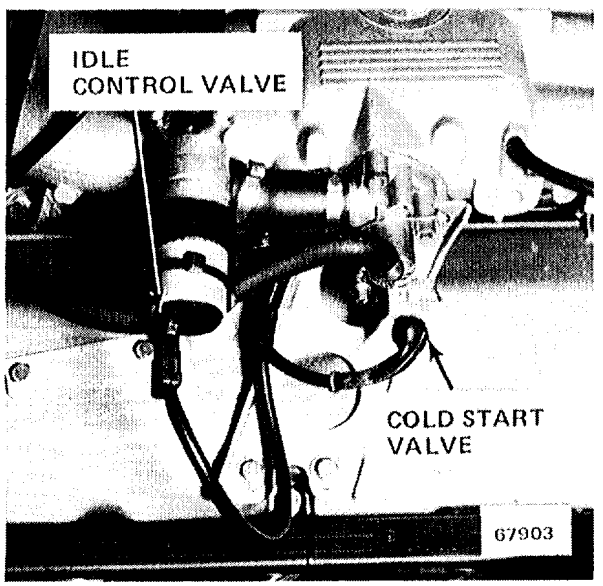


Figure 2 - RH Rear Side of Engine

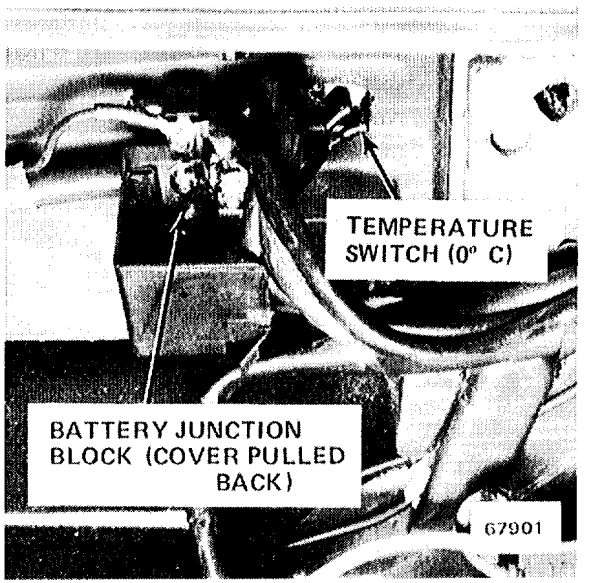


Figure 4 - RH Side of Engine Bulkhead

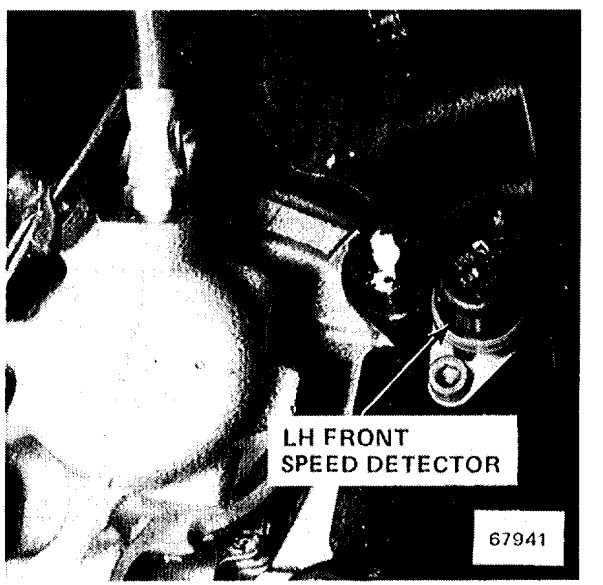


Figure 6 - LH Front Spindle Assembly

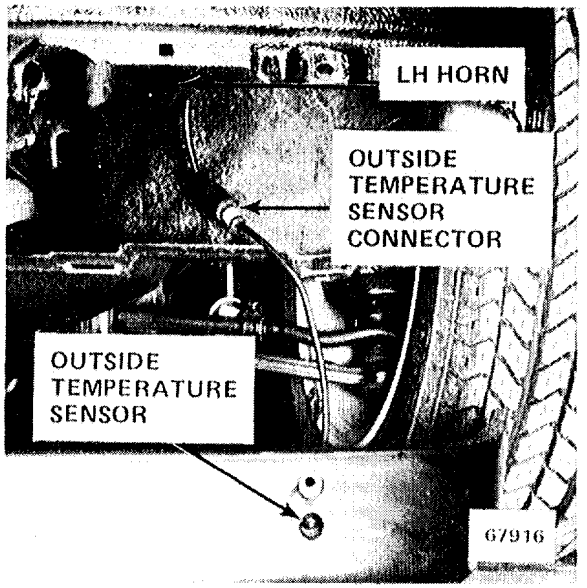


Figure 1 - Under LH Side of Front Bumper (Splash Guard Pulled Down)

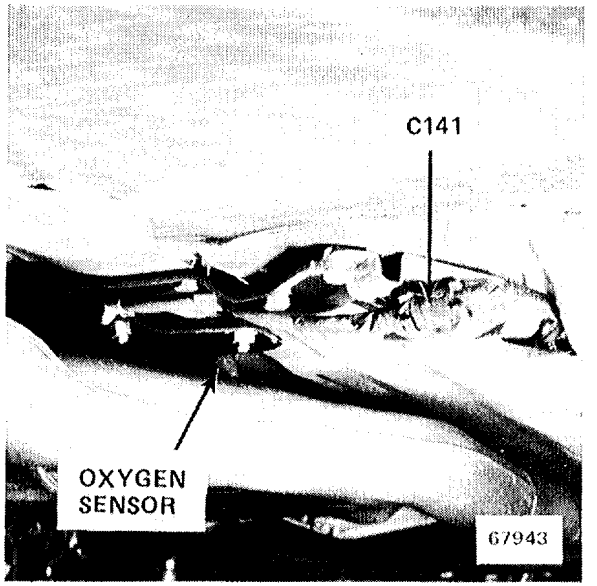


Figure 3 - Under RH Side of Car

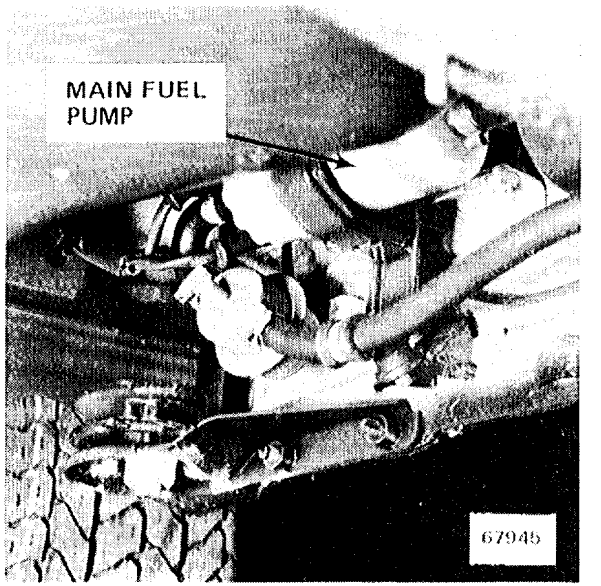


Figure 5 - Ahead of LH Rear Wheel

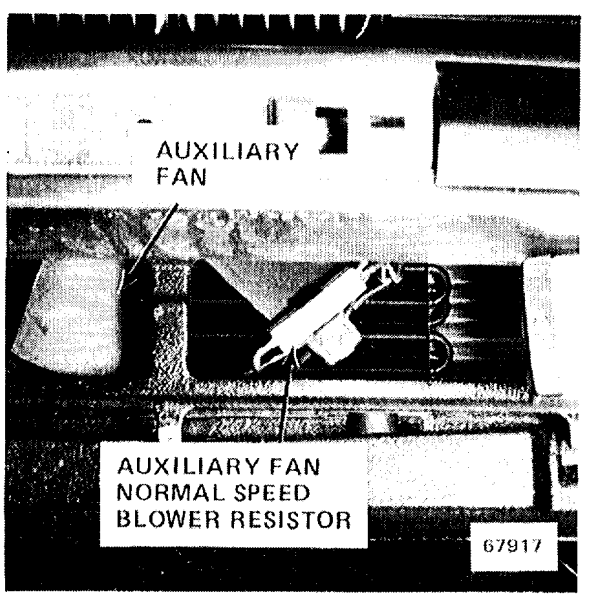


Figure 2 - Under Middle of Front Bumper

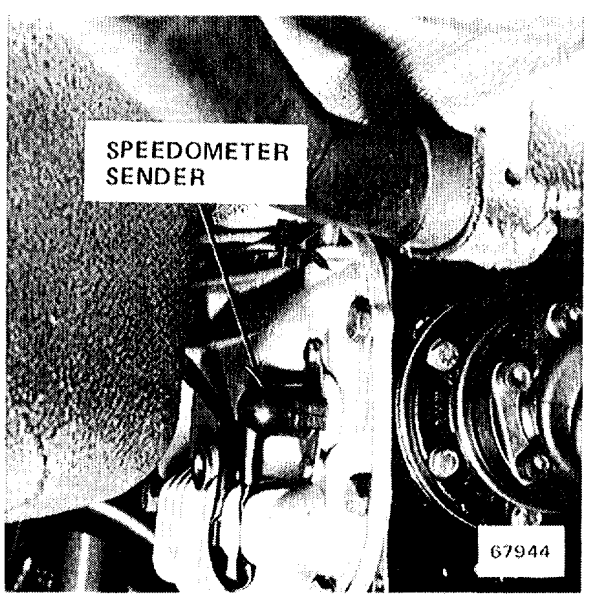


Figure 4 - RH Rear of Differential

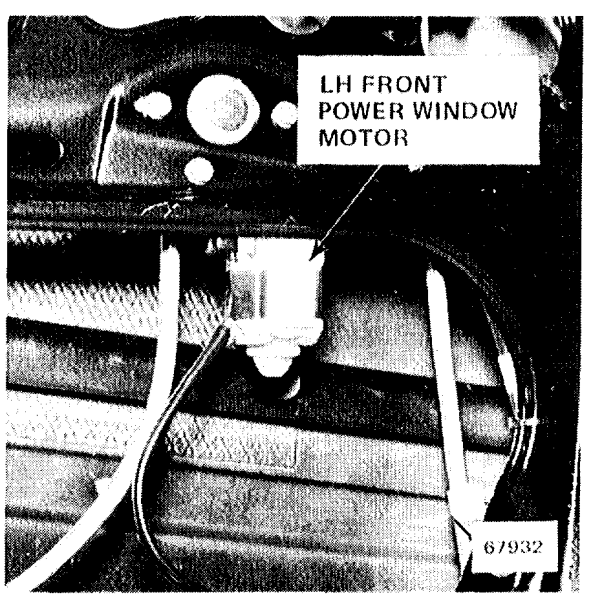


Figure 6 - Inside LH Front Door (Panel Removed)

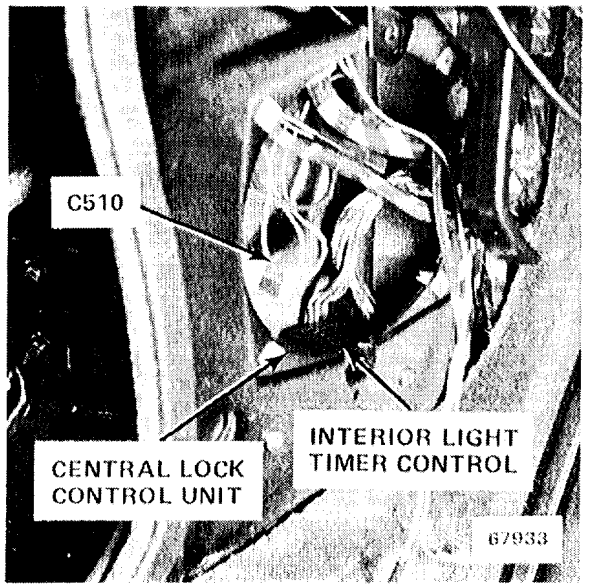


Figure 1 - Behind Left Front Speaker

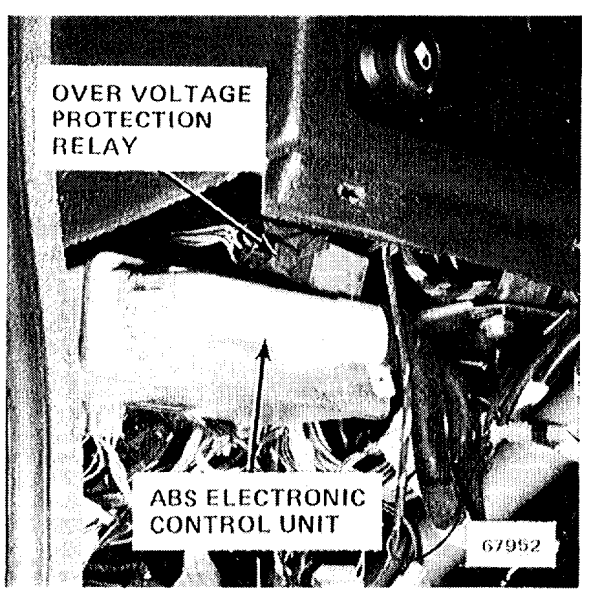


Figure 2 - Under LH Side of Dash

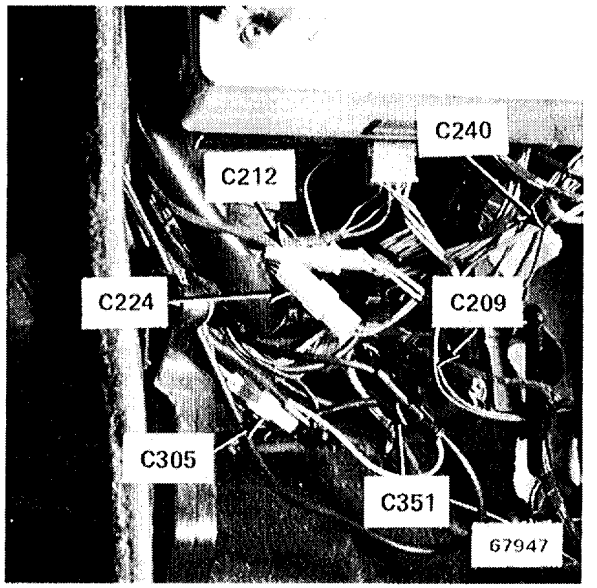


Figure 3 - Under LH Side of Dash

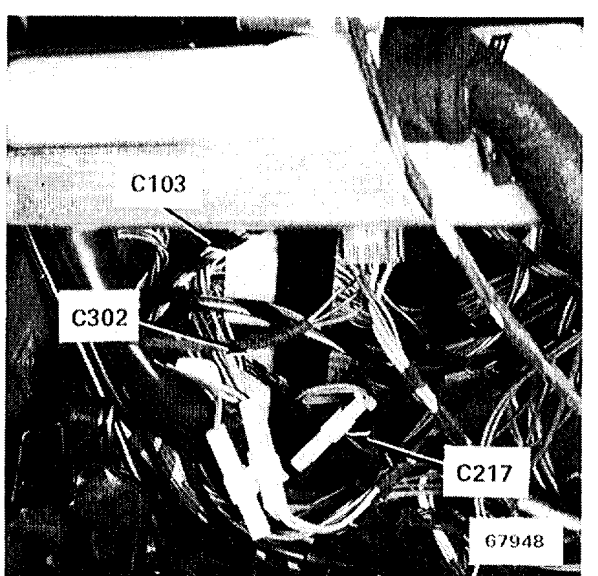


Figure 4 - Under LH Side of Dash

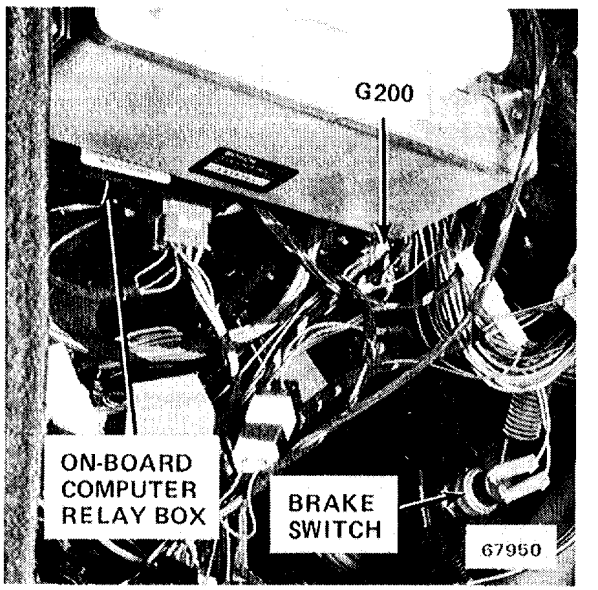


Figure 5 - Under LH Side of Dash

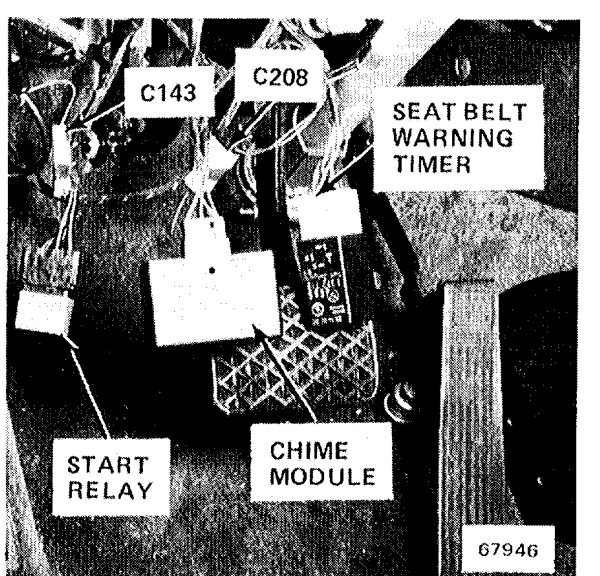


Figure 6 - Under LH Side of Dash

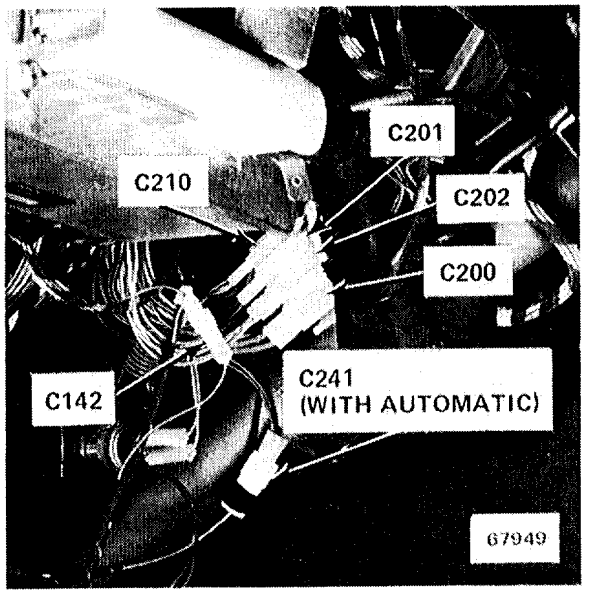


Figure 1 - Under LH Side of Dash

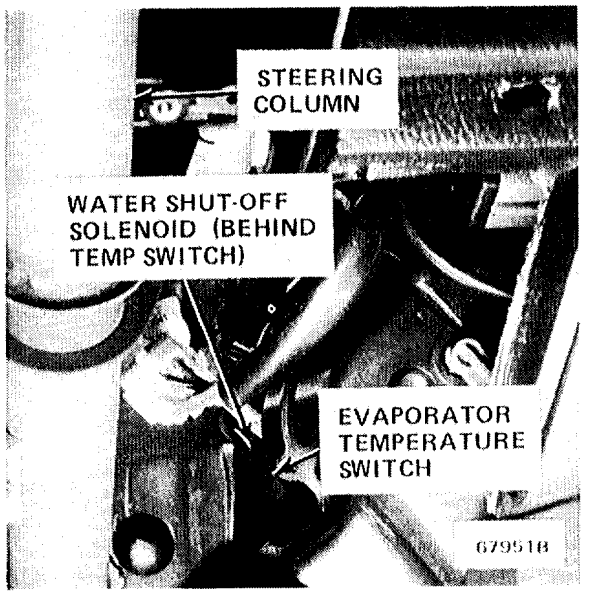


Figure 3 - Under LH Side of Dash

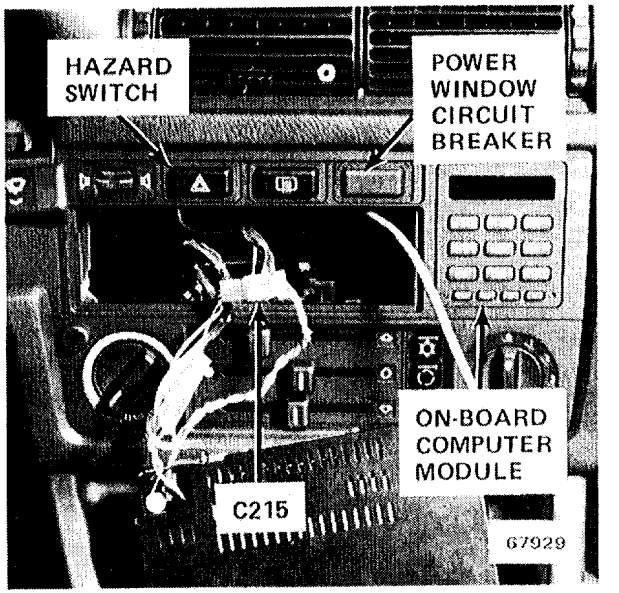


Figure 5 - Center of Dash

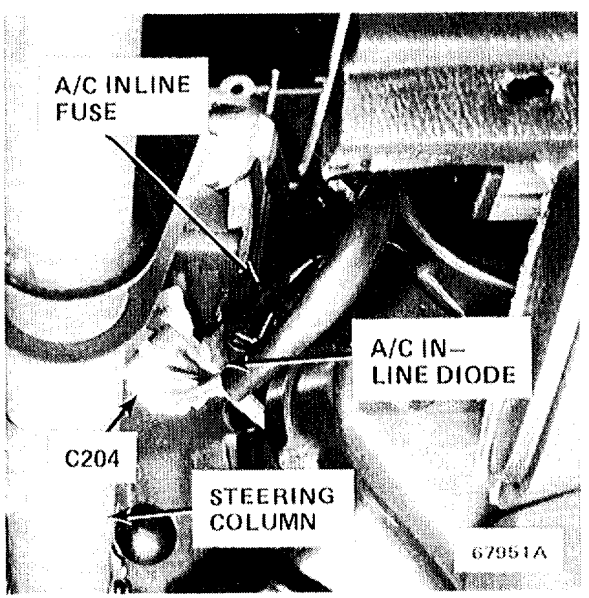


Figure 2 - Under LH Side of Dash

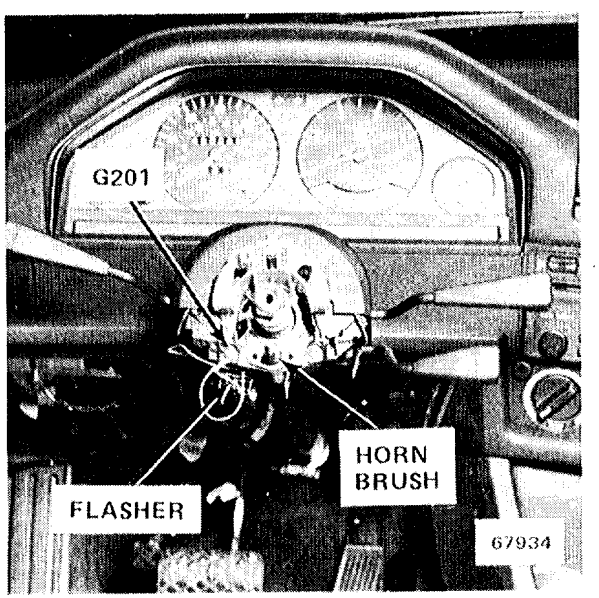


Figure 4 - Top of Steering Column

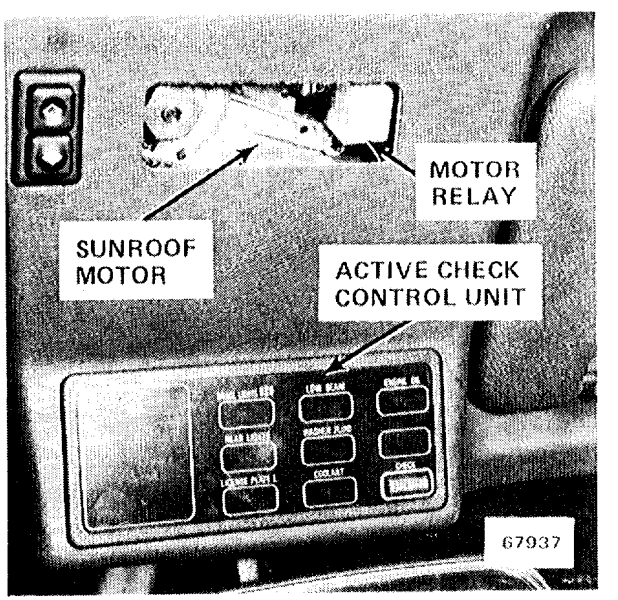


Figure 6 - Center of Windshield Header

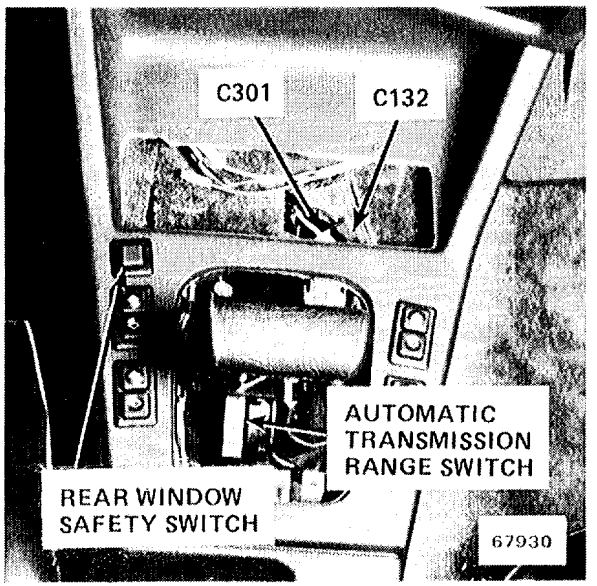


Figure 1 - Center Console

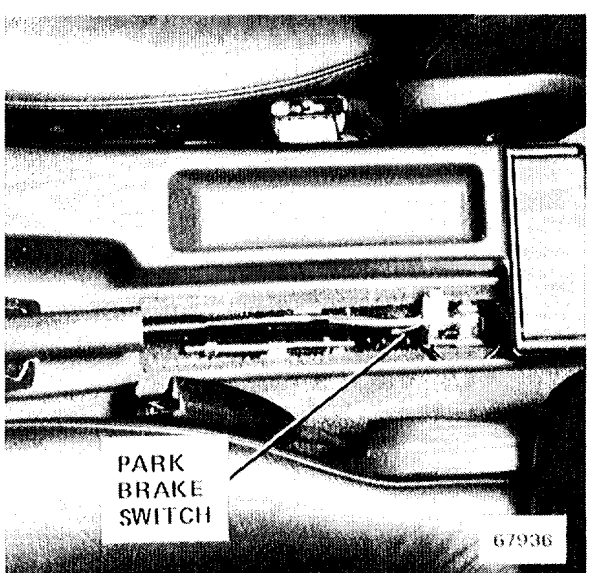


Figure 2 - Rear of Center Console

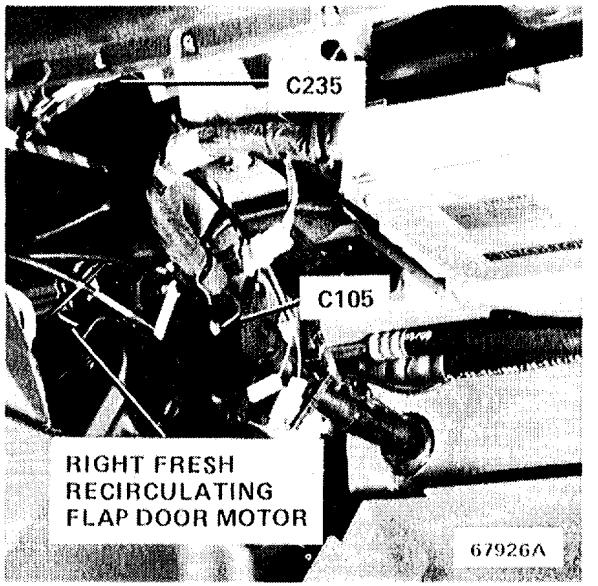


Figure 3 - Behind Right Side of Center Console

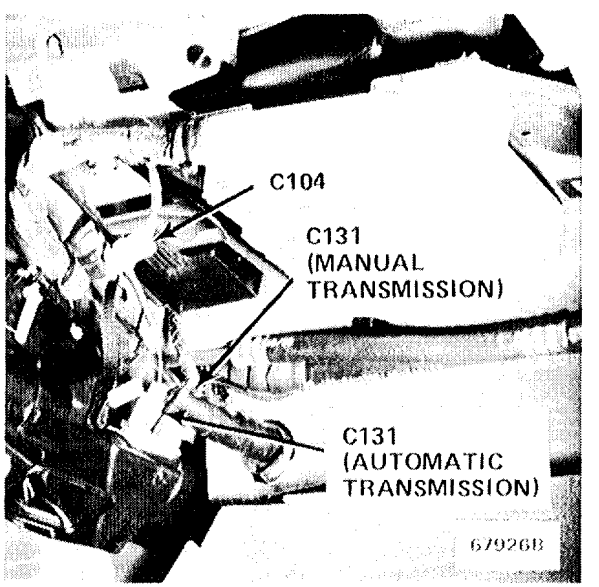


Figure 4 - Under RH Side of Dash

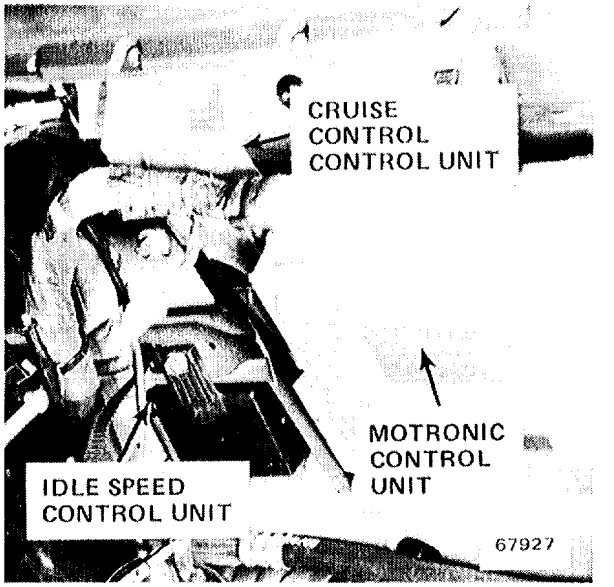


Figure 5 - Under RH Side of Dash

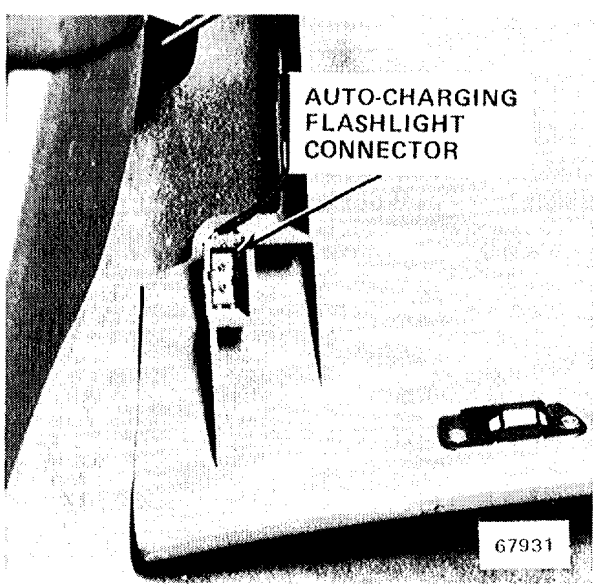


Figure 6 - Inside Glove Box

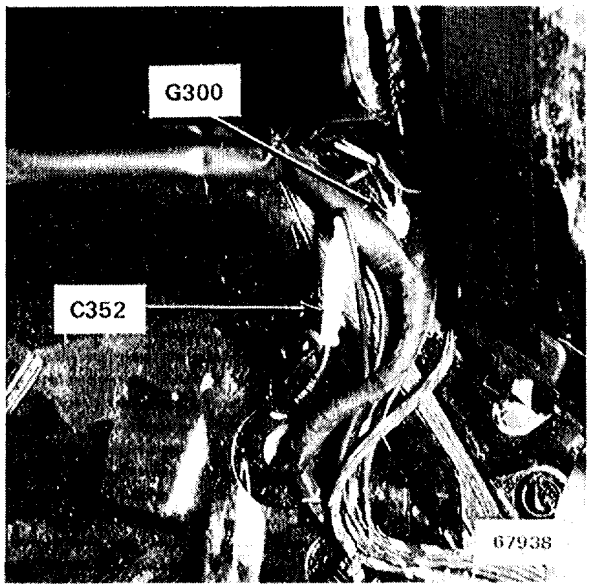


Figure 1 - Under LH Side of Rear Seat

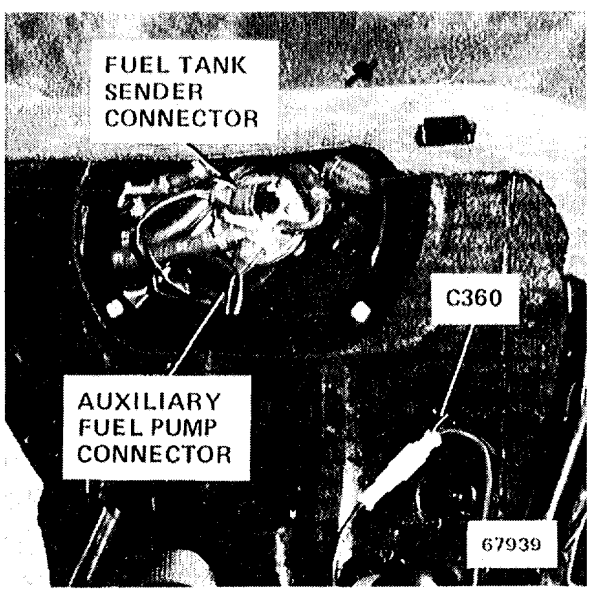


Figure 2 - Under RH Side of Rear Seat

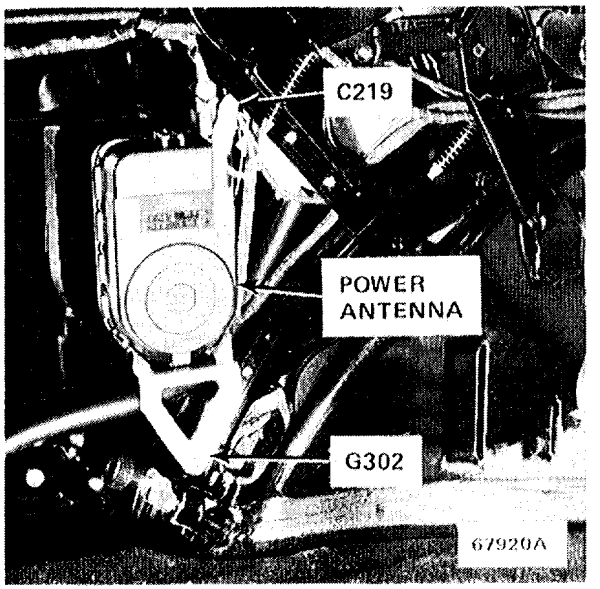


Figure 3 - LH Front of Trunk

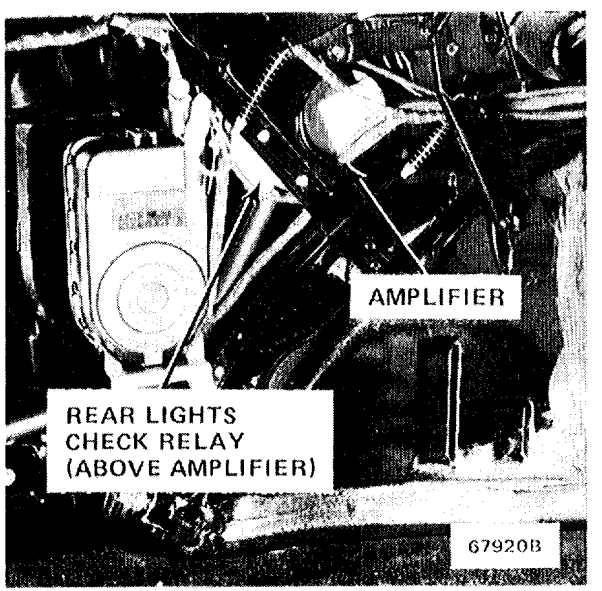


Figure 4 - LH Front of Trunk

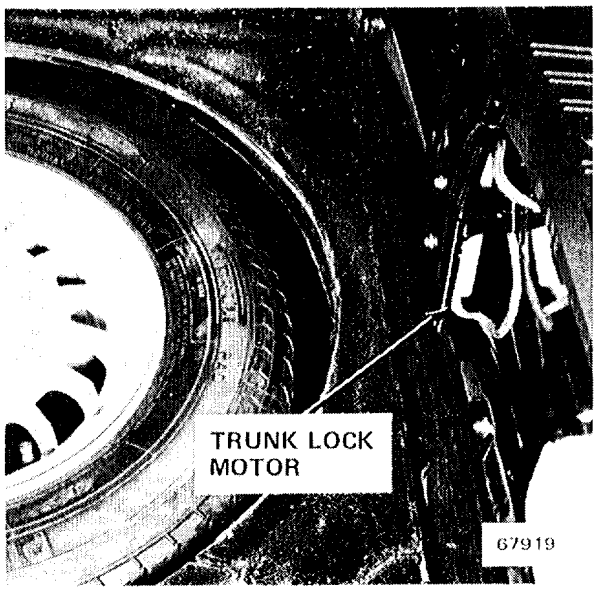


Figure 5 - Middle Rear of Trunk

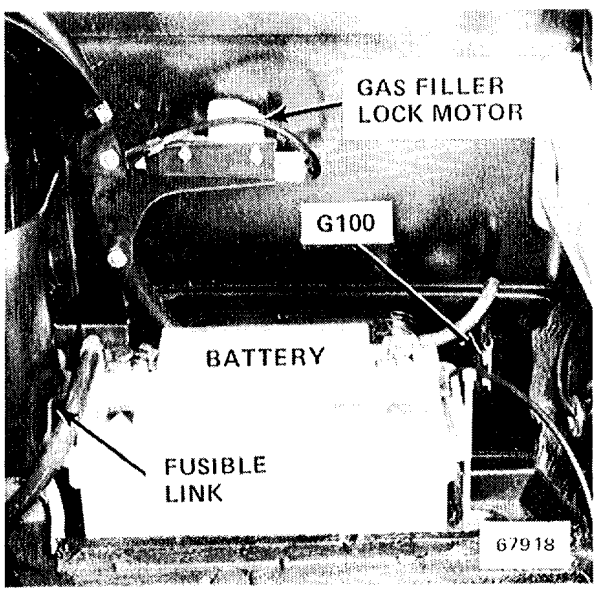


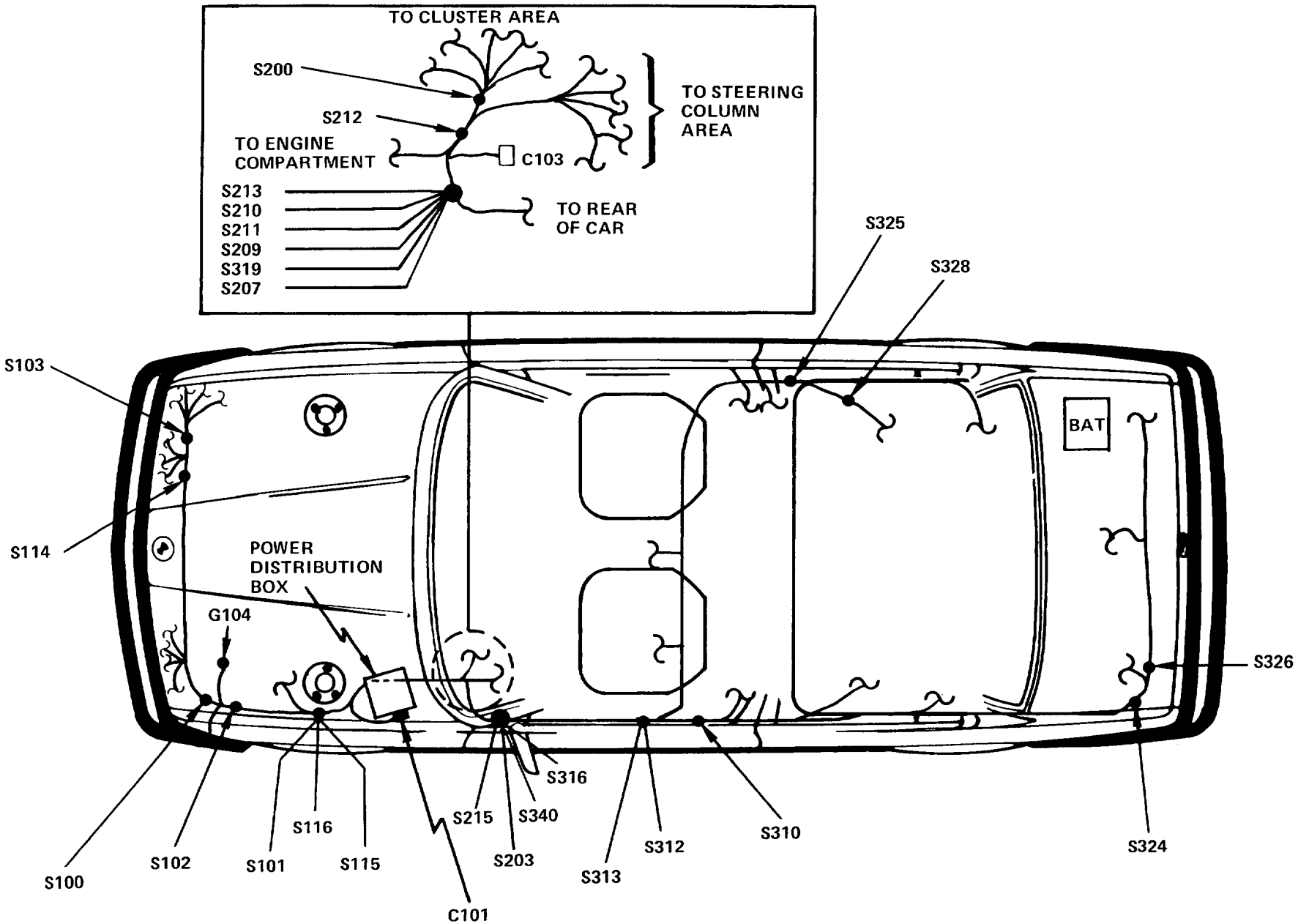
Figure 6 - RH Rear of Trunk

8000-0 SPLICE LOCATION VIEWS

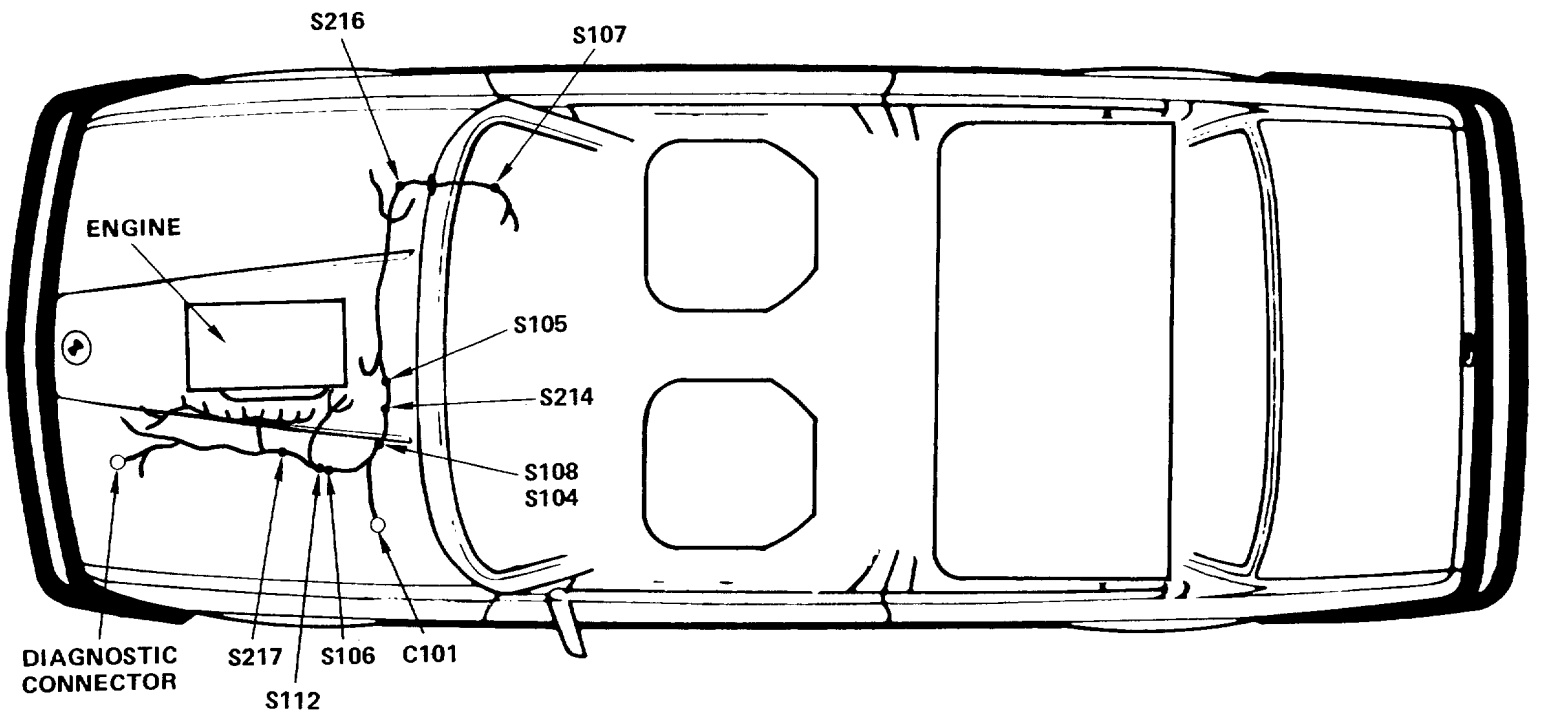
INDEX

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

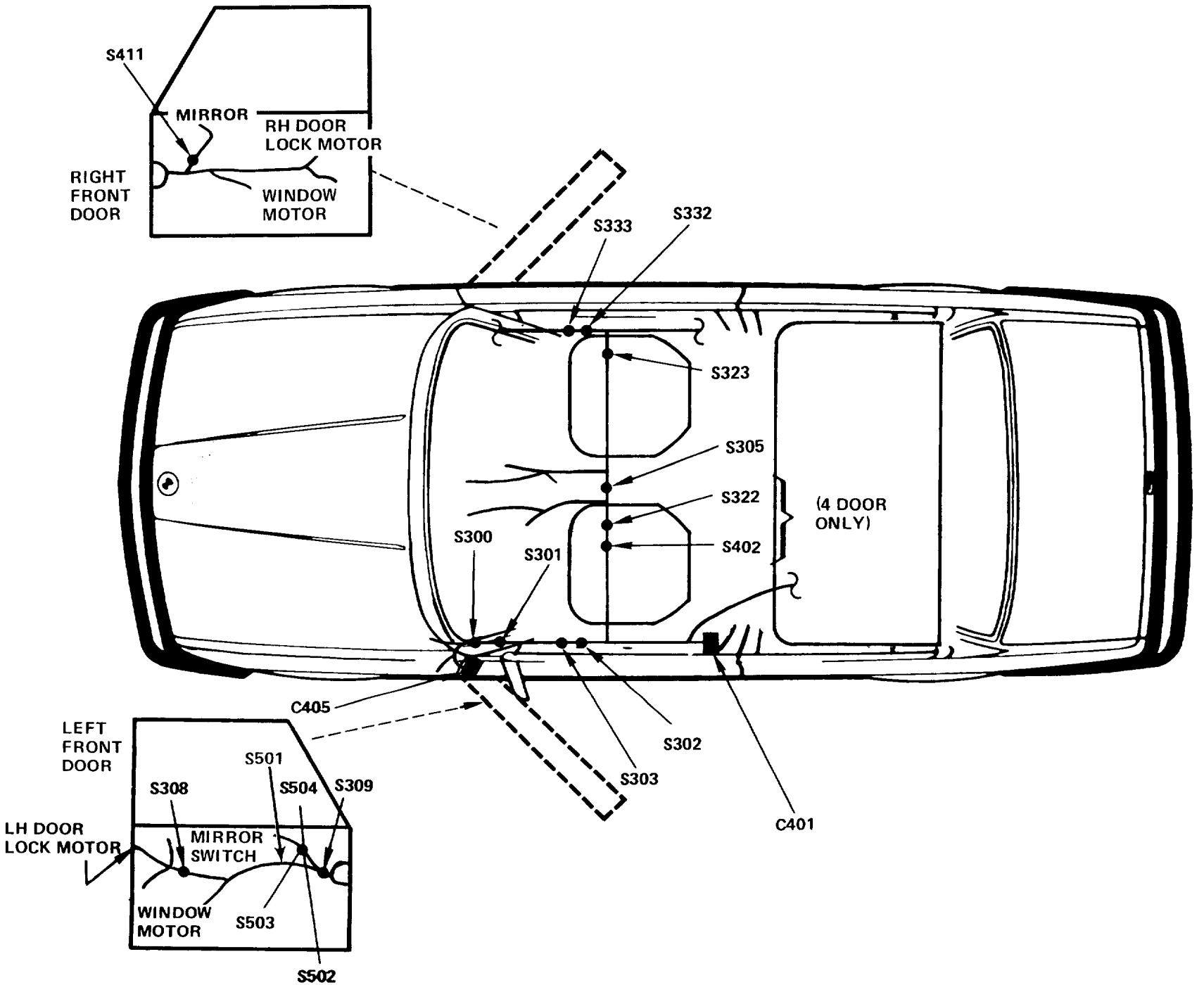
MAIN HARNESS SPLICE LOCATIONS



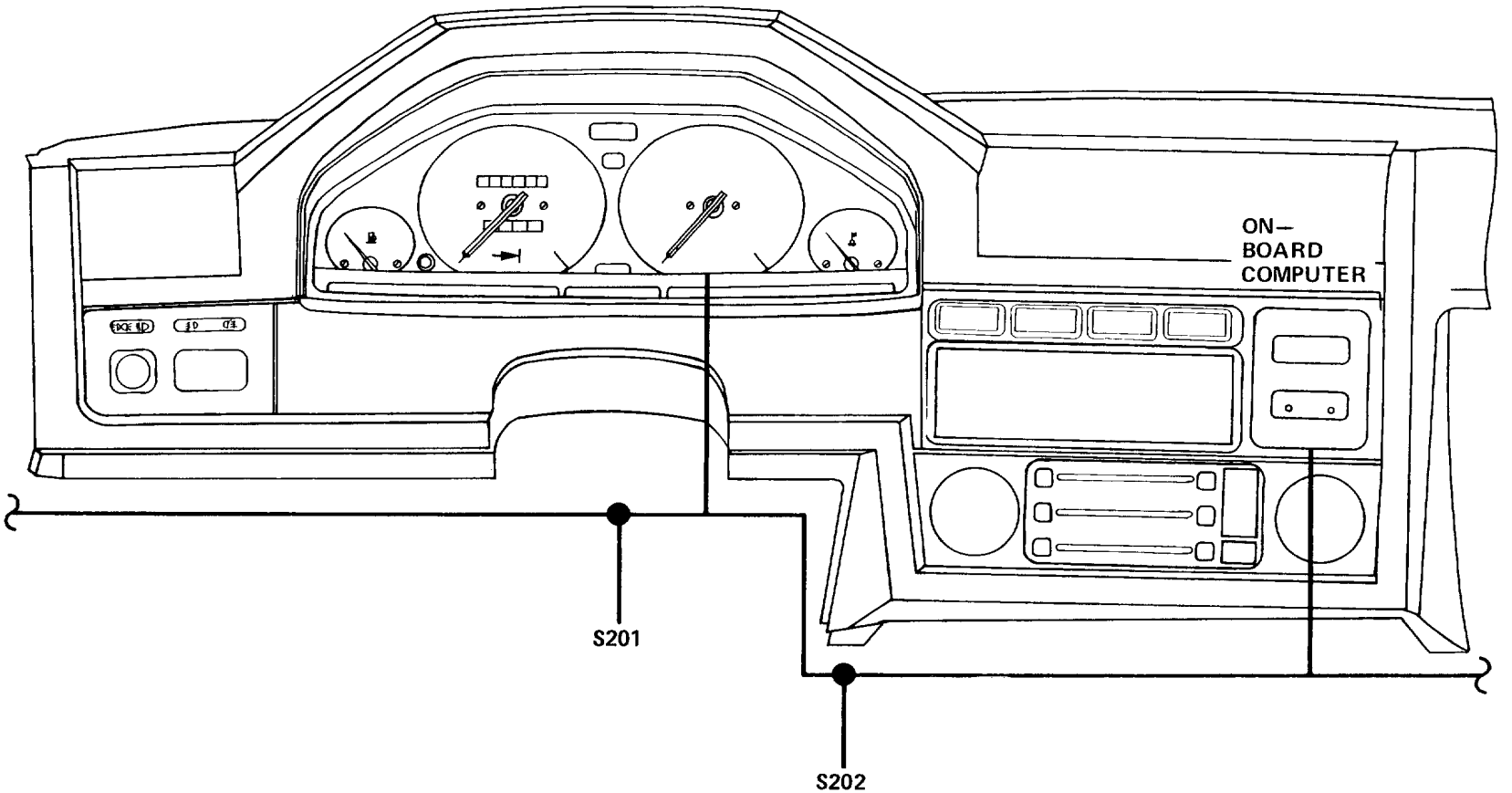
ENGINE HARNESS SPLICE LOCATIONS



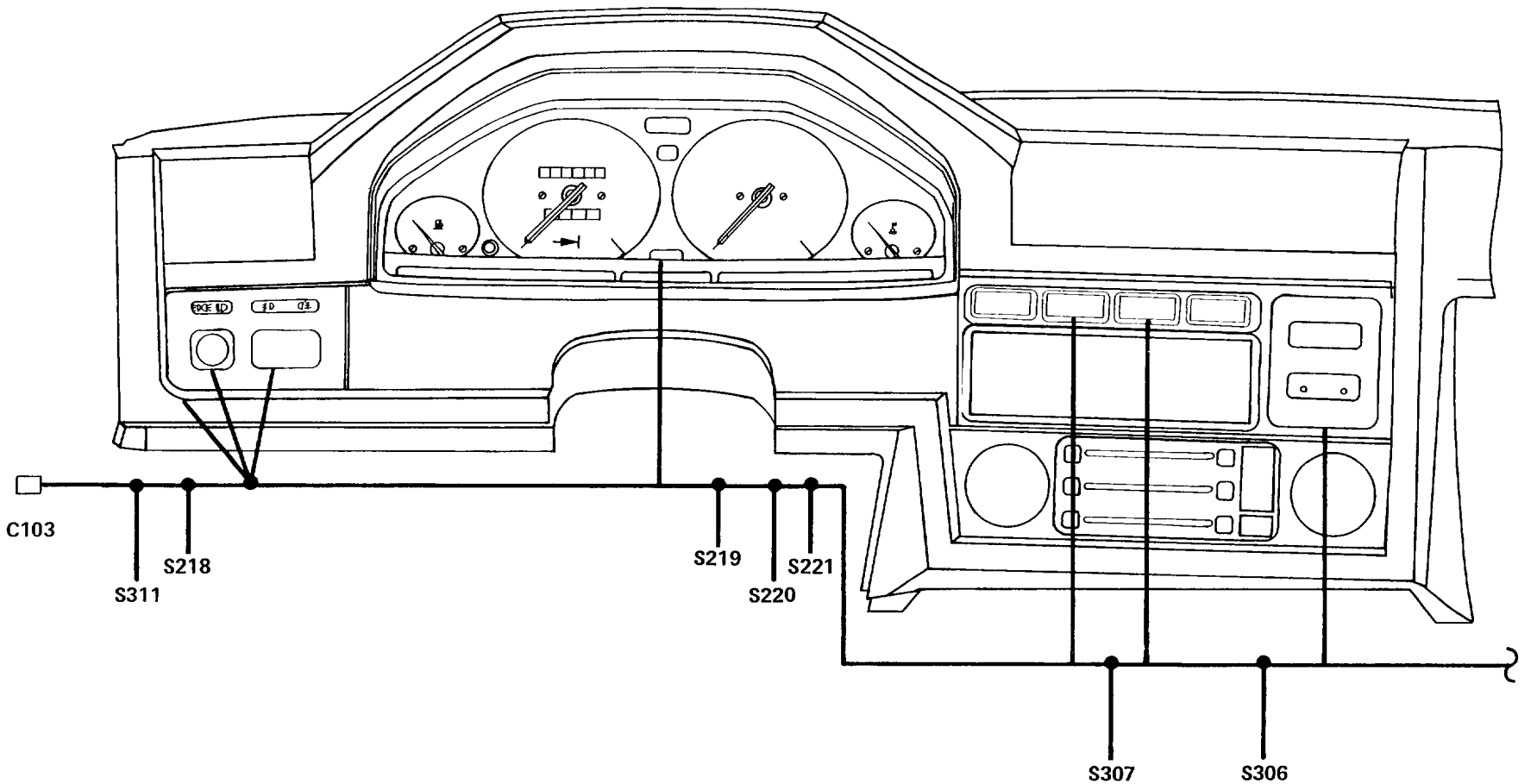
DOOR HARNESS SPLICE LOCATIONS



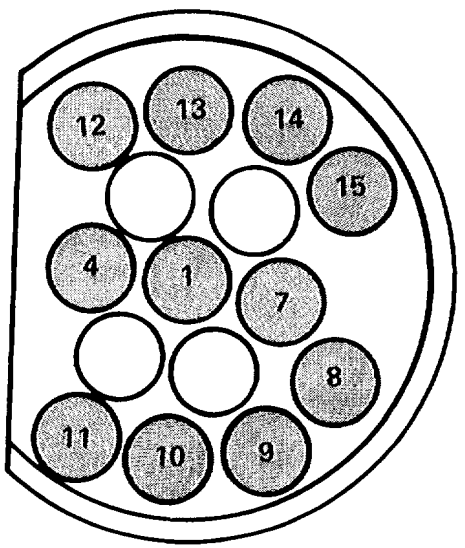
ON-BOARD COMPUTER HARNESS SPLICE LOCATIONS



INSTRUMENT PANEL HARNESS SPLICE LOCATIONS



DIAGNOSTIC CONNECTOR



DIAGNOSTIC CONNECTOR FACE

PIN	WIRE SIZE	WIRE COLOR	CIRCUIT AND COMPONENT CONNECTED
1	1.5	BR	Ground Distribution, G103
4	.5	BR/VI	Gauges/Warning Indicators, Coolant Temperature Sender
6	.75	GY/BU	Idle Speed Control Unit
7	.5	WT/BU	Service Interval Indicator, Service Interval Processor (Reset)
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. (50)
12	.75	BU	Charge System, Alternator (D+)
13	1	GN	Ignition, Ignition Coil
14	2.5	RD	Charge System, Alternator (30)
15	1.5	GN/YL	Idle Speed Control, Idle Speed Control Unit.

ACCESSORY CONNECTOR

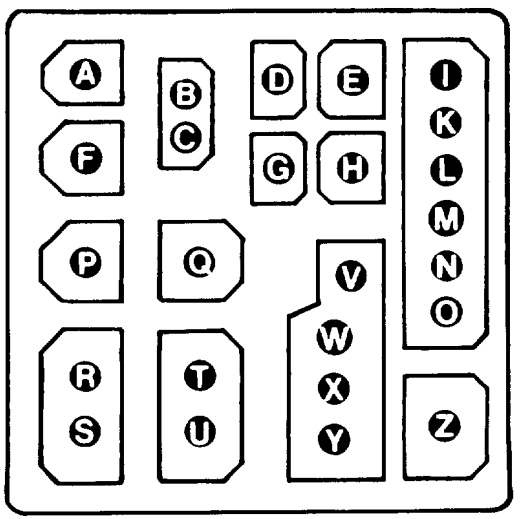
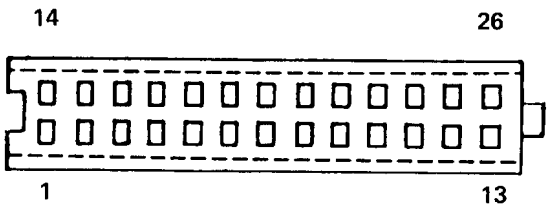


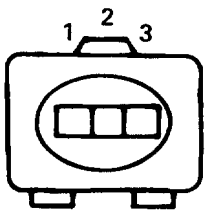
Figure 1-C302 (Accessory Connector) Front View—Under LH Side of Dash Ahead of Pedal Assembly

CIRCUITS USING C301 (ACCESSORY CONNECTOR)

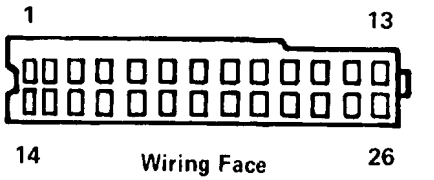
TERMINAL	CIRCUIT	TERMINAL	CIRCUIT
A	Not Used	N	Not Used
B	Not Used	O	Not Used
C	Anti-Lock Braking	P	Not Used
D	Anti-Lock Braking	Q	Power Windows & Sunroof
E	Not Used		
F	Not Used	R	Cruise Control
G	Anti-Lock Braking	S	Anti-Lock Braking
H	On-Board Computer	T	Not Used
I	Not Used	U	Not Used
J	Not Used	V	Radio
K	Not Used	W	Not Used
L	Not Used	X	Radio
M	Not Used	Y	Radio
		Z	Power Antenna



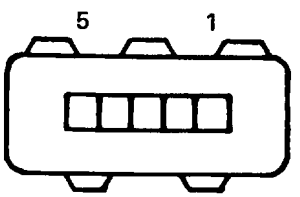
Wiring Face
ACTIVE CHECK CONTROL



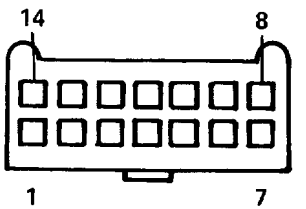
Wiring Face
BAROMETRIC PRESSURE SENSOR



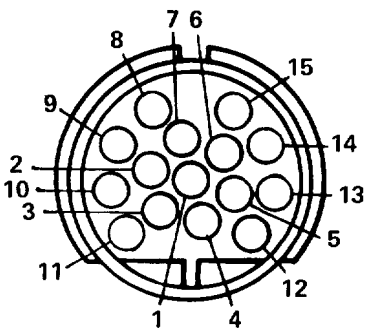
Wiring Face
CRUISE CONTROL



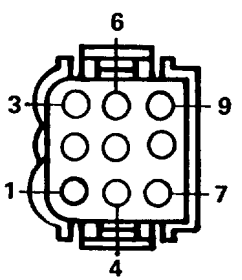
Mating Face
AIR FLOW METER



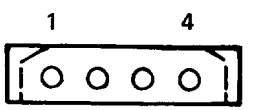
Wiring Face
CENTRAL LOCKING CONTROL UNIT



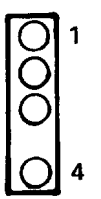
Mating Face
DIAGNOSTIC CONNECTOR



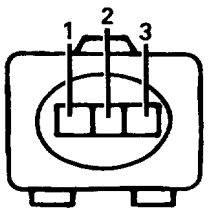
Wiring Face
AUTOMATIC TRANSMISSION RANGE SWITCH



Wiring Face
CHIME MODULE (C1)

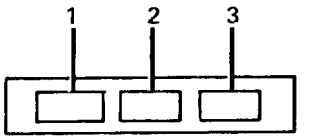


Wiring Face
DIGITAL CLOCK



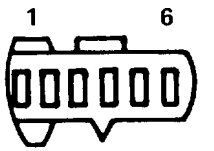
Wiring Face

ENGINE SPEED SENSOR



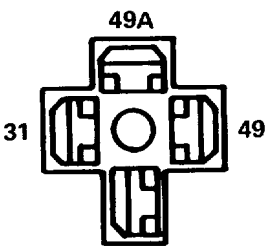
Wiring Face

FRONT TURN/PARK LIGHT



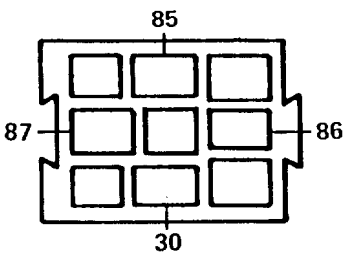
Wiring Face

GAS FILLER LOCK MOTOR



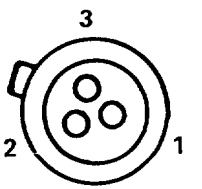
Wiring Face

FLASHER



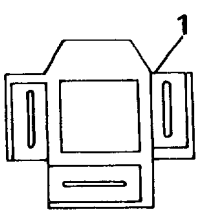
Wiring Face

FUEL PUMP RELAY



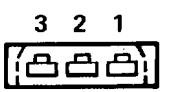
Wiring Face

HEATED OXYGEN GENERATOR SENSOR



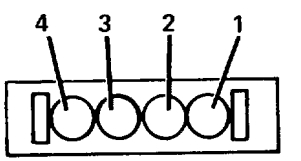
Wiring Face

FRONT HEADLIGHTS



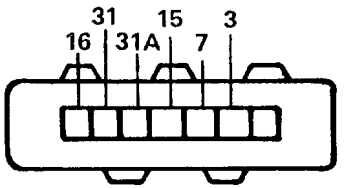
Wiring Face

FUEL TANK SENDER



Wiring Face

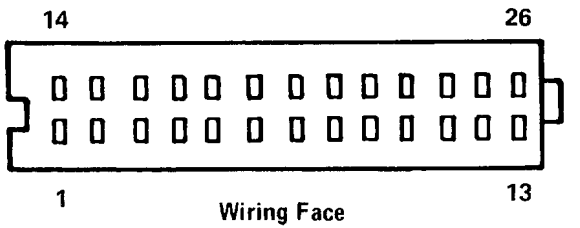
HIGH LEVEL STOP LIGHT



Mating Face

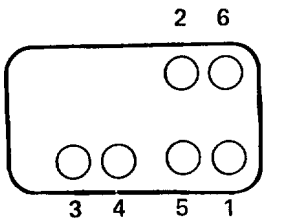
IGNITION CONTROL MODULE

(318 EARLY PRODUCTION)



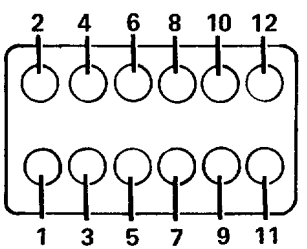
Wiring Face

INSTRUMENT CLUSTER (C2)



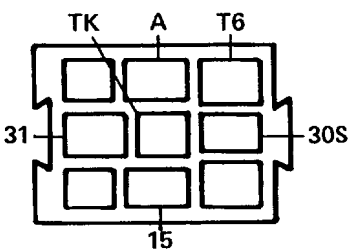
Mating Face

MIRROR CONTROL SWITCH



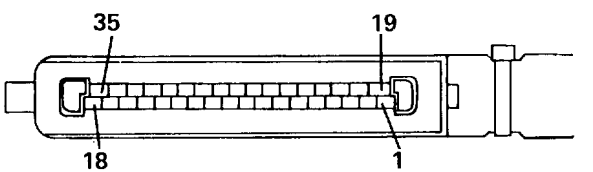
Wiring Face

IDLE AIR CONTROL



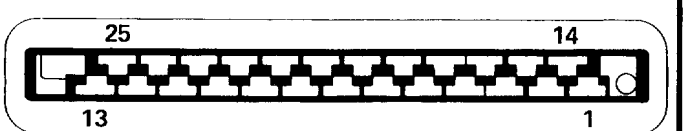
Wiring Face

INTERIOR LIGHT TIMER CONTROL



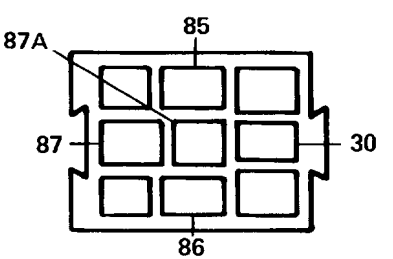
Mating Face

MOTRONIC CONTROL UNIT



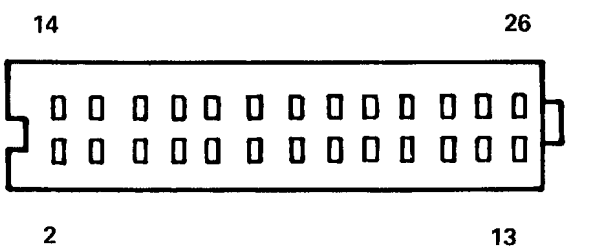
Mating Face

INJECTION CONTROL MODULE



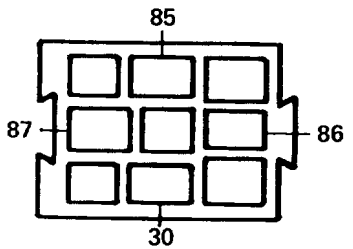
Wiring Face

MAIN RELAY



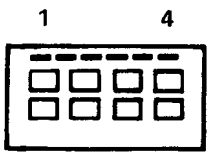
Wiring Face

ON-BOARD COMPUTER MODULE



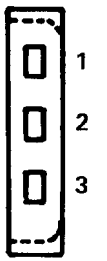
Wiring Face

OXYGEN SENSOR HEATER RELAY



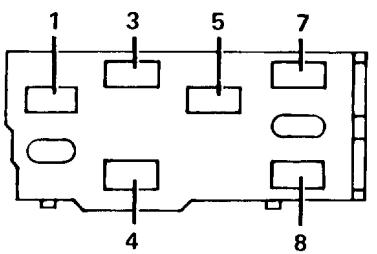
Wiring Face

REAR LIGHTS CHECK RELAY



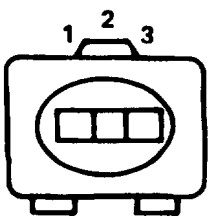
Wiring Face

SUNROOF MOTOR (CI)



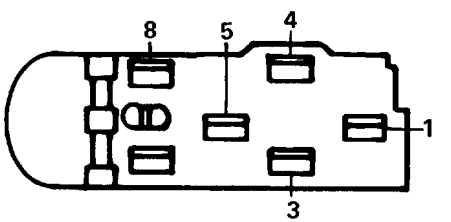
Wiring Face

POWER WINDOW SWITCHES



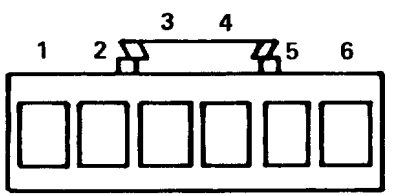
Wiring Face

REFERENCE POINT SENSOR



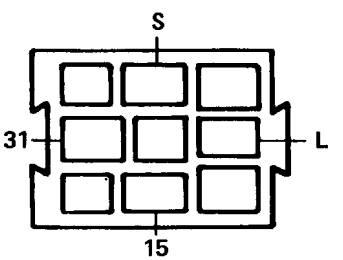
Wiring Face

SUNROOF SWITCH



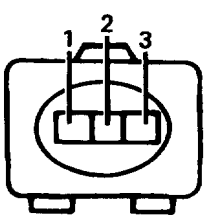
Wiring Face

REAR LIGHT ASSEMBLY



Wiring Face

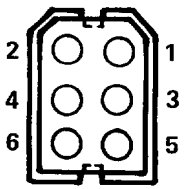
SEAT BELT WARNING TIMER



Wiring Face

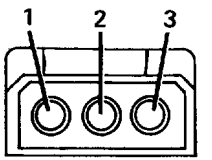
THROTTLE POSITION SENSOR

8500-6 CONNNECTOR VIEWS



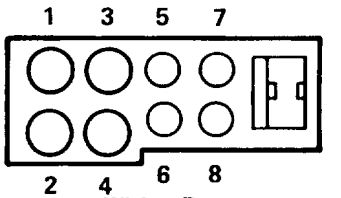
Wiring Face

WIPER MOTOR



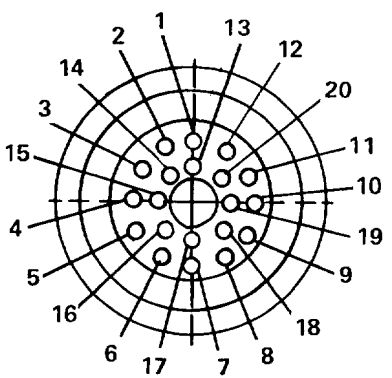
Wiring Face

C104



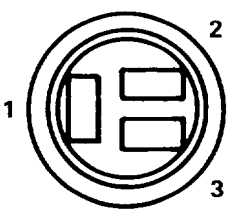
Wiring Face

C200



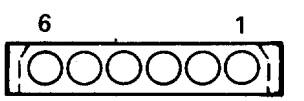
Wiring Face

C101



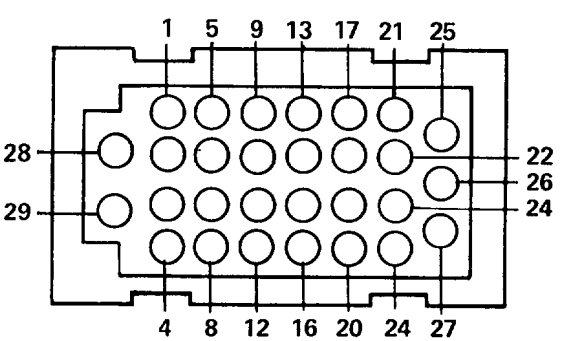
Wiring Face

C113



Wiring Face

C201

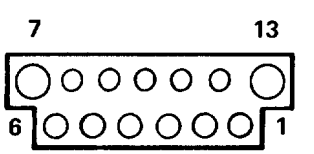


Wiring Face

C103

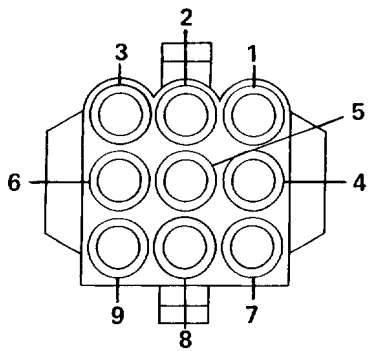
Wiring Face

C114



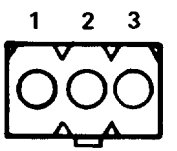
Wiring Face

C202



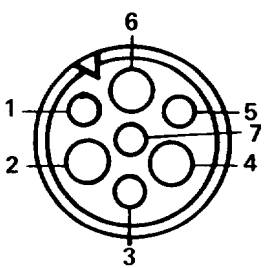
Wiring Face

C204



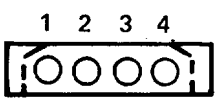
Wiring Face

C303



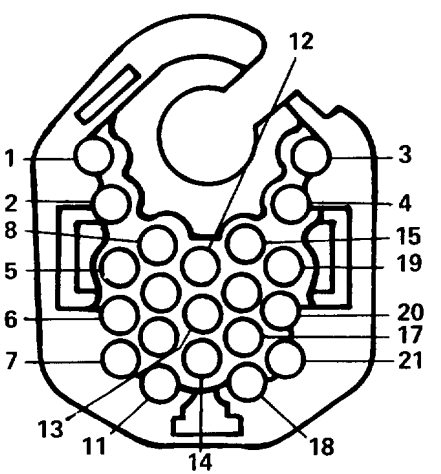
Wiring Face

C209



Wiring Face

C210



Wiring Face

C405

COMPONENTS		Page-Figure
A/C In-Line Diode	Left side of evaporator housing	7000-6-2
A/C In-Line Fuse	Left side of evaporator housing	7000-6-2
ABS Electronic Control Unit	Under LH side of dash, above hood release	7000-5-2
ABS Hydraulic Unit	In front of left front wheel well	7000-1-2
Active Check Control Unit	Above rear view mirror	7000-6-6
Air Flow Meter	Behind air cleaner	7000-0-6
Amplifier	In trunk, above left wheel well	7000-8-4
Auto-Charging Flashlight	In glove box	7000-7-6
Automatic Trans. Range Switch	At base of shift lever	7000-7-1
Auxiliary Fan	In front of A/C condenser	7000-4-2
Auxiliary Fan Normal Speed Blower Resistor	Front of A/C condenser	7000-4-2
Auxiliary Fuel Pump	In fuel tank	7000-8-2
Auxiliary Fuse	On top of LH front shock tower	7000-0-2
B/C Horn Diode	Near LH front shock tower	7000-0-1
Backup Light Switch	On transmission	
Barometric Pressure Sensor	Mounted on air intake housing	7000-1-5
Battery	In RH rear of trunk	7000-8-6
Battery Junction Block	Engine compartment, at RH bulkhead	7000-3-4
Blower Motor	Behind center console, in evaporator housing	
Blower Resistors	Behind center console, in evaporator housing	
Board Computer Horn	Near LH front shock tower	7000-0-1
Brake Fluid Level Switch	Left of engine, on brake fluid reservoir	7000-0-2
Brake Switch	On brake pedal support, above brake pedal	7000-5-5
Brake Wear Sensors	On LH front and RH rear brake calipers	7000-3-5
Central Lock Control Unit	Below and behind left front speaker	7000-5-1
Chime Module	Mounted on LH dash hush panel	7000-5-6
Clutch Diode	Lower RH front of engine, on compressor	7000-2-3
Clutch Switch	Above clutch pedal	
Cold Start Valve	Top RH side of intake manifold	7000-3-2
Combination Switch	Upper left side of steering column	
Compressor Clutch	Lower RH front of engine, on compressor	7000-2-3
Compressor Enable Switch	Behind A/C face plate	
Coolant Level Switch	On RH front wheel well, in coolant reservoir	7000-3-3
Coolant Temperature Sender	Front of engine, top of thermostat housing	7000-1-6
Coolant Temperature Sensor	Front of engine, top of thermostat housing	7000-1-6
Coolant Temperature Switch	Front of engine, top of thermostat housing	7000-1-5
Cruise Control Actuator	Forward of LH front shock tower	7000-1-1
Cruise Control Control Unit	Mounted under RH side of dash	7000-7-5
Cruise Control Switch	On RH side of steering column	
Diagnostic Connector	Top LH front of engine	7000-1-4
Door Lock Motors	Rear part of each door	

		Page-Figure
Engine Speed Sensor	Lower LH side of transmission bell housing	7000-0-3
Evaporator Temperature Switch	LH side of evaporator housing	7000-6-3
Flasher	Upper part of steering column	7000-6-4
Fresh/Recirculating Air Flap Door Motors	Behind A/C face plate	7000-7-3
Fresh/Recirculating Air Relays	Behind A/C face plate	
Fuel Injectors	Below intake manifold, at each port	7000-1-6
Fuel Pump Relay	On bracket, in front of LH front shock tower	7000-0-5
Fuel Tank Sender	Top of fuel tank	7000-8-2
Fusible Link	In trunk, connected to positive battery terminal	7000-8-6
Gas Filler Lock Motor	In trunk, behind RH wheel well	7000-8-6
Hazard Switch	In center console, above radio	7000-6-5
High Pressure Cut-Out Switch	On receiver dryer, behind RH headlight	7000-2-5
High Speed Coolant Temperature Switch	Top LH side of radiator	7000-2-1
Horn/Brush Slip Ring	In upper steering column	7000-6-4
Horns	Near fog lights, behind splash guard	7000-4-1
Hot Water Cut-Off Switch	Behind A/C face plate	
Idle Control Valve	Top RH rear side of engine	7000-3-2
Idle Speed Control Unit	RH side of dash, above glove box	7000-7-5
Ignition Coil	On RH front wheel well	7000-3-3
Ignition Key Switch	Part of ignition switch, in upper part of steering column	
Ignition Switch	Upper part of steering column	
Interior Light Timer Control	Below LH front speaker	7000-5-1
Lock Inhibit Switch	Rear of RH front door	
Low Pressure Cut-Out Switch	Behind RH headlights	7000-2-5
Main Fuel Pump	Under car, in front of left rear wheel	7000-4-5
Main Relay	Behind header, above rear view mirror	7000-6-6
Motor Relay	On bracket, in front of left front shock tower	7000-0-5
Motronic Control Unit	Under RH side of dash, above glove box	7000-7-5
Normal Speed Coolant Temperature Switch	Top LH side of radiator	7000-2-1
Oil Level Sensor	Top LH side of oil pan	7000-1-3
Oil Pressure Switch	Below oil filter	7000-2-4
On-Board Computer Module	In center console, RH of radio	7000-6-5
On-Board Computer Relay Box	Under LH side of dash, above hood release	7000-5-5
Outside Temperature Sensor	Behind splash guard, near LH fog light	7000-4-1
Over Voltage Protection Relay	Under LH side of dash, near ABS electronic control unit	7000-5-2

		Page-Figure
Oxygen Sensor	In front of catalytic converter, on top of exhaust pipe	7000-4-3
Oxygen Sensor Heater Relay	On bracket, in front of left front shock tower	7000-0-5
Park Brake Switch	At base of parking brake	7000-7-2
Power Antenna	In trunk, behind LH wheel well	7000-8-3
Power Distribution Box	At top rear of left front wheel well	7000-0-1
Power Window Circuit Breaker	On center console, above radio	7000-6-5
Power Window Motors	Forward part of each door	7000-4-6
Pulse Wheels	On wheel, in brake housing	
Rear Lights Check Relay	In trunk, above left wheel well	7000-8-4
Rear Window Safety Switch	On center console, left of shift lever	7000-7-1
Reference Point Sensor	Lower LH side of transmission bell housing	7000-0-3
Safety Switch	On top of LH wheel well, near cruise control actuator	7000-1-1
Seatbelt Switch	In driver's seatbelt buckle	
Seatbelt Warning Timer	Under LH side of dash, on electrical bracket	7000-5-6
Speed Detectors	On wheel, in brake housing	7000-3-6
Speedometer Sender	In rear of differential	7000-4-4
Start Relay	Upper LH corner of driver's footwell	7000-5-6
Starter	Lower LH rear of engine	
Sunroof Motor	In windshield header, above rear view mirror	7000-6-6
TDC Sensor	Front of engine, above crankshaft vibration dampener	7000-2-2
Temperature Switch (0 Degrees C)	On engine bulkhead, left of battery junction block	7000-3-4
Thermo-Time Switch	Top front of coolant thermostat housing	7000-1-5
Throttle Switch	Below rear of throttle body	7000-0-4
Trunk Lock Motor	On trunk lock center support	7000-8-5
Unlock Inhibit Switch	Rear of LH front door	
Washer Fluid Level Switch	In reservoir, behind RH headlights	7000-2-6
Washer Pump	Ahead of right front wheel well, on reservoir	7000-3-1
Water Shut-Off Solenoid	Left side of evaporator housing	7000-6-3
Wiper Motor	Under left fresh air intake cowl	
Wiper/Washer Switch	Upper right side of steering column	

CONNECTORS

C101 (20 pins)	Next to power distribution box, mounted on engine dash	7000-0-2
C103 (29 pins)	Behind LH side of dash, on body electrical bracket	7000-5-4
C104 (3 pins)	Behind RH side of dash, above glove box	7000-7-4
C105 (1 pin)	Right side of evaporator housing	7000-7-3
C106 (1 pin)	Near washer pump	7000-2-6
C107 (1 pin)	Near washer pump	7000-3-1

		Page-Figure
C109 (6 pins)	Near wiper motor	
C113 (3 pins)	Behind LH headlights	7000-1-2
C126 (2 pins)	Behind LH headlights	7000-2-5
C127 (2 pins)	Behind RH headlights	7000-2-5
C131 (1 pin) (With Automatic Transmission)	Behind RH side of dash, above glove box	7000-7-4
C131 (1 pin) (With Manual Transmission)	RH side of dash, above glove box	7000-7-4
C132 (1 pin)	In console, near automatic transmission range switch	7000-7-1
C140 (3 pins)	Near RH rear side of engine	7000-3-3
C141 (3 pins)	Under RH side of car, below passenger side	7000-4-3
C142 (1 pin)	Under LH side of dash, above steering column	7000-6-1
C143 (1 pin)	Under LH side of dash, near body electrical bracket	7000-5-6
C150 (2 pins)	On top of LH front wheel well	7000-0-6
C151 (2 pins)	On top of RH front wheel well	7000-3-1
C200 (9 pins)	Under LH side of dash, on steering column	7000-6-1
C201 (6 pins)	Under LH side of dash, on steering column	7000-6-1
C202 (13 pins)	Under LH side of dash, on steering column	7000-6-1
C204 (9 pins)	Under LH side of dash, near steering column	7000-6-2
C208 (2 pins)	Near brake pedal support bracket	7000-5-6
C209 (7 pins)	Above brake pedal	7000-5-3
C210 (4 pins)	On LH side of steering column	7000-6-1
C212 (2 pins)	Under LH side of dash, near accessory connector	7000-5-3
C215 (2 pins)	Center console, behind radio	7000-6-5
C217 (1 pin)	Under LH side of dash, near accessory connector	7000-5-4
C219 (2 pins)	In trunk, above and below LH wheel well	7000-8-3
C224 (2 pins)	Under LH side of dash, near accessory connector	7000-5-3
C235 (3 pins)	Under RH side of dash, near cruise control control unit	7000-7-3
C240 (6 pins)	Under LH side of dash, above body electrical bracket	7000-5-3
C241 (1 pin)	Under LH side of dash, above steering column	7000-6-1
C251 (4 pins)	Behind A/C face plate	
C260 (2 pins)	Near chime module	
C301 (2 pins)	At base of shift lever	7000-7-1
C302 (25 pins) Accessory Connector	Upper LH corner of driver's footwell	7000-5-4
C303 (3 pins)	At base of right "B" pillar	
C304 (3 pins)	At base of left "B" pillar	
C305 (1 pin)	Under LH side of dash, near accessory connector	7000-5-3
C351 (1 pin)	Under LH side of dash, near accessory connector	7000-5-3
C352 (2 pins)	Behind LH side of rear seat	7000-8-1

		Page-Figure
C401 (7 pins)	In left "B" pillar	
C402 (7 pins)	In right "B" pillar	
C404 (21 pins)	Above RH front door jamb switch	
C405 (21 pins)	Above LH front door jamb switch	
C406 (1 pin)	In RH door	
C407 (1 pin)	In LH door	
C503 (3 pins)	In rear of LH front door	
C510 (1 pin)	Behind and above LH front speaker	7000-5-1
GROUNDS		
G100	RH rear of trunk, behind battery	7000-8-6
G103	On LH front of engine, under diagnostic connector	7000-1-4
G104	On inner fender, behind LH headlights	7000-1-1
G200	Under LH side of dash, above brake pedal	7000-5-5
G201 (Steering Column Ground)	Upper LH side of steering column	7000-6-4
G300	Behind LH side of rear seat	7000-8-1
G302	In trunk, behind left wheel well	7000-8-3
G600	In windshield header	