

1984
BMW 318i
Electrical
Troubleshooting
Manual

BMW of North America, Inc. Montvale, New Jersey

FOREWORD In the interests of continuing technical development work

we reserve the right to modify designs and equipment.

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1984 BMW 318i Electrical Troubleshooting Manual

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Cigar Lighter 131 —License Diagnostic Connector 101 —Rear M Digital Clock 131 —Stoplig Fuel Control 110 —Tail Fuel Delivery 109 —Turn Fuel Economy Gauge 118 —Trunk . Fuel Gauge 117 Power An Fuse Data 103 Power Dia Gauges 117 Power Dia Ground Distribution 147 Power Mi Heating 139 Power Wi Horn 129 Radio Idle Speed Control 112 Rear Defe Ignition 109 Seatbelt V Ignition Key Warning 121 Service In Indicators 116 Speedom Lights Start —Back Up 128 Tachome —Dash 138 Vacuum —Fog 122, 136 Warning	arker 127 nts 129

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.

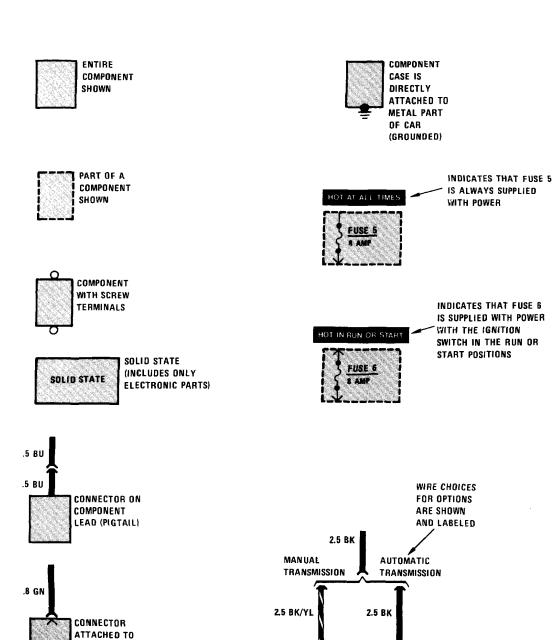
The power distribution schematic shows the current feed through all the connections from the Battery and Alternator to each fuse and the Ignition and Light Switches. If the Power Distribution schematic is combined with any other circuit schematic, a complete picture is made of how that circuit works. The Ground Distribution schematics show how several circuits are connected to common grounds.

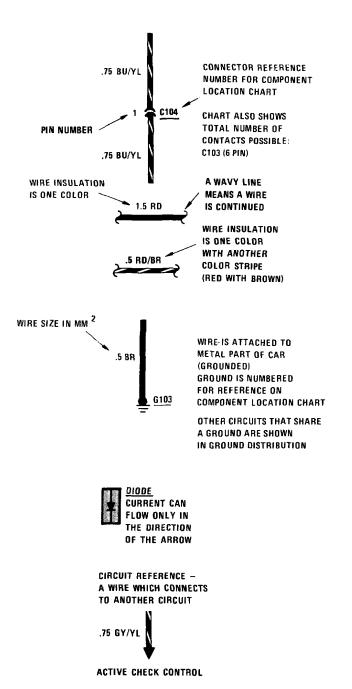
All wiring between components is shown exactly as it exists in the vehicle; however, the wiring is not drawn to scale. To aid in understanding electrical operation, wiring inside complicated components has been simplified. The "Solid State" label designates electronic components.

WIRE SIZE CONVERSION O	Company Delicated States and Chief Control Con
METRIC	AWG
(CROSSECTIONAL AREA	(AMERICAN
IN MM²)	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 INS	SULATION
ABBREVIATIONS	COLOR
BK BR RD YL GN BU VI GY WT PK	BLACK BROWN RED YELLOW GREEN BLUE VIOLET GRAY WHITE PINK

COMPONENT





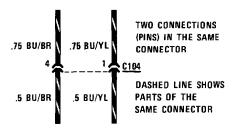


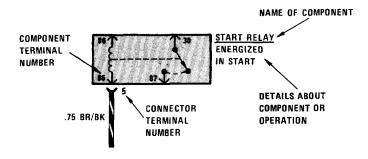
ONE POLE, TWO POSITION SWITCH

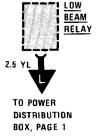


SWITCHES THAT MOVE TOGETHER

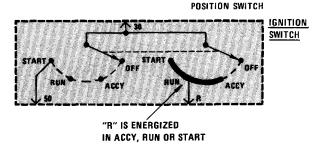
DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES







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



RELAY SHOWN

WITH RESISTOR

ACROSS COIL

TWO POLE, FOUR

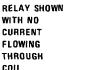


POWER DISTRIBUTION BOX

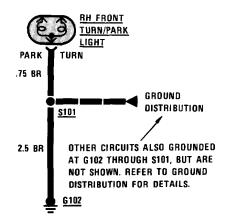


WITH NO CURRENT FLOWING THROUGH COIL

WHEN COIL IS ENERGIZED, SWITCH IS PULLED CLOSED



RESISTOR ACROSS COIL IS FOR NOISE SUPPRESSION





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

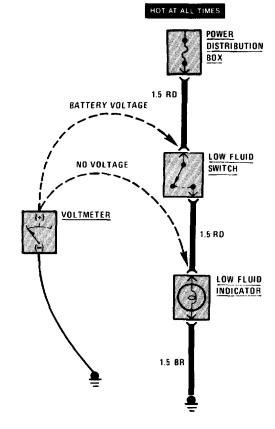
Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a voltmeter and/or ohmmeter. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit under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

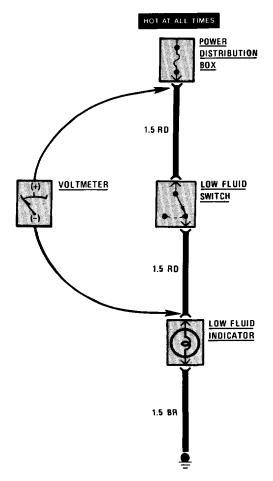


Voltage Test

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.

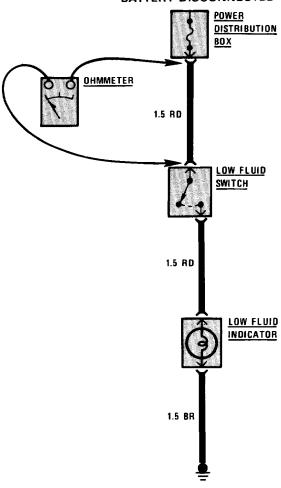


Voltage Drop Test

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.

BATTERY DISCONNECTED

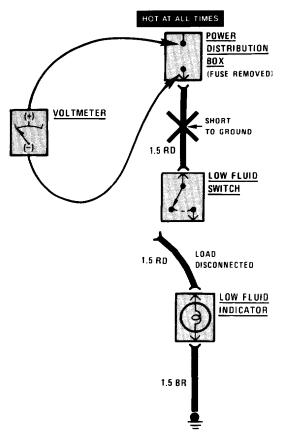


Continuity Test

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.



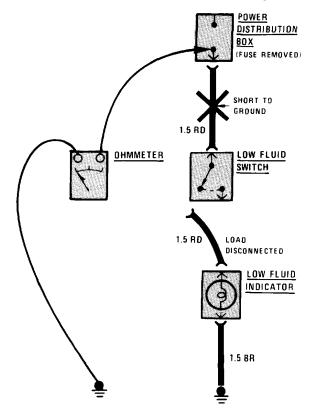
Short Test Using Voltmeter

Short Test Using Ohmmeter

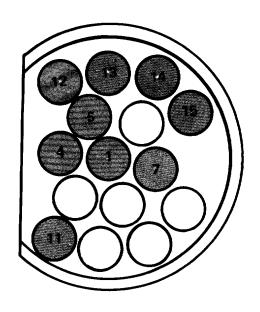
Disconnect the battery. Adjust the ohmmeter to read zero while holding the leads together. Remove the blown fuse and disconnect the load. Connect one lead of the ohmmeter to the fuse terminal that is closest to the load. Connect the other lead to a known good ground.

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.

BATTERY DISCONNECTED



Short Test Using Ohmmeter



DIAGNOSTIC CONNECTOR

PIN	WIRE SIZE	WIRE COLOR	CIRCUIT AND COMPONENT CONNECTED
1	1.5	BR	Ground Distribution G101
4	.5	BR/VI	Gauges/Warning Indicators, Coolant Temperature Sender.
5	.5	WT/GN	Fuel Control, Injector Control Module (Fuel Rate)
7	.5	WT/BU	Service Interval Indicator, Service Interval Processor (Reset).
11	2.5	BK/YL	Start, Start Signal.
12	.75	BU	Charge System, Alternator.
13	.75	ВК	Ignition, Ignition Coil.
14	2.5	RD	Charge System, Alternator.
15	1.5	GN/YL	Idle Speed Control, Idle Speed Control Unit.

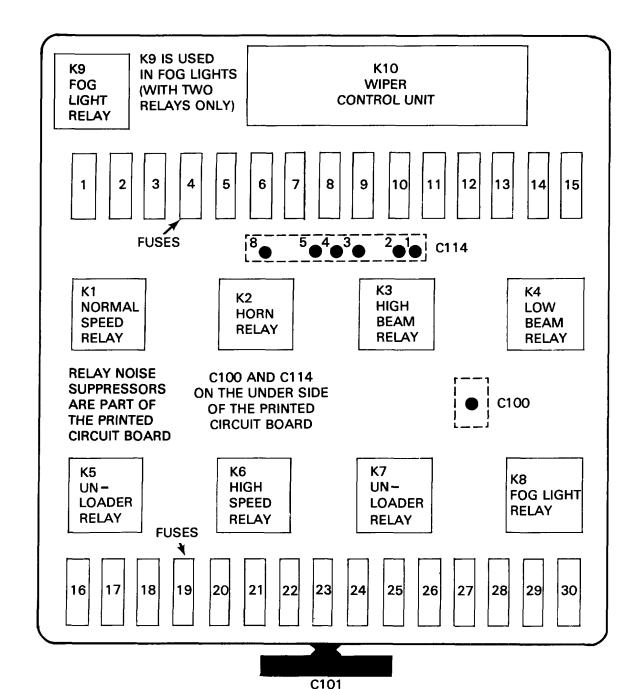
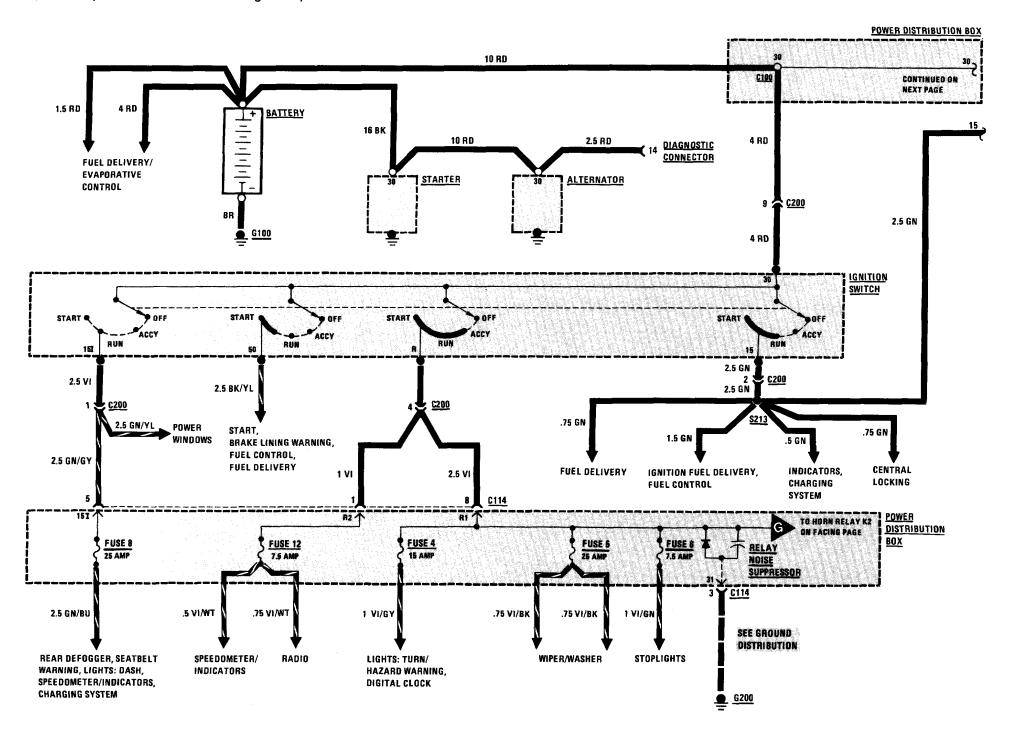
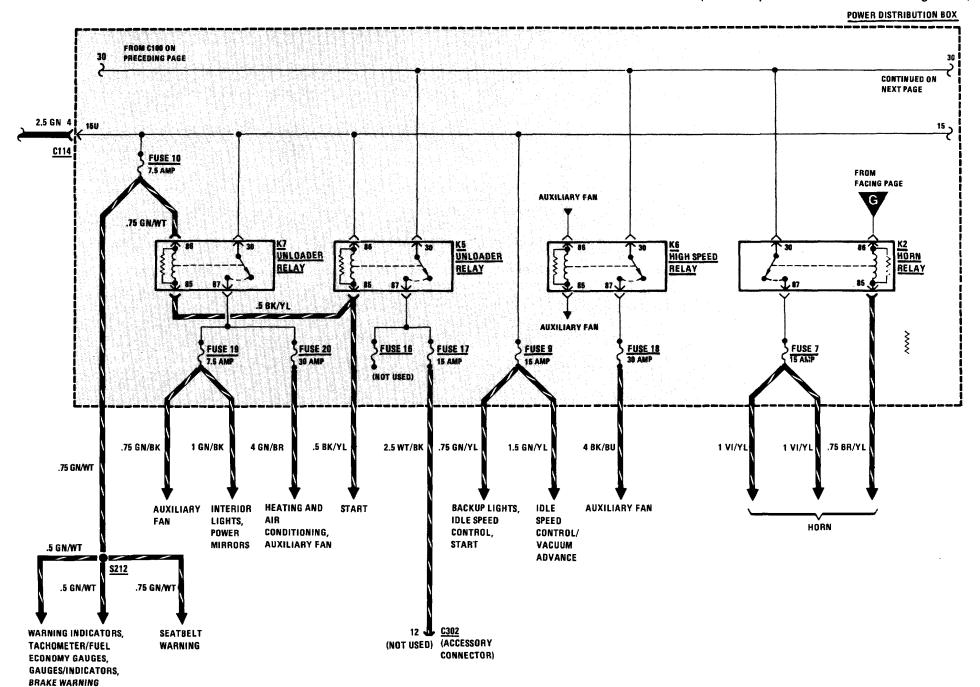


Figure 1 - Behind Left Front Shock Tower

FUSE NO.	SIZE/ COLOR	CIRCUIT NAME
1	7.5A (BR)	Headlights (also fuses 2, 13, 16).
2	7.5A (BR)	Headlights (also fuses 1, 13, 14).
3	15A (LT BLU)	Auxiliary Fan (also fuse 18).
4	15A (LT BU)	Lights: Turn/Hazard Warning (also fuse 24).
5	25A (WT)	Wiper/Washer.
6	7.5A (BR)	Stoplights.
7	15A (LT BU)	Horn.
8	25A (WT)	Lights: Dash Rear Defogger; Seatbelt Warning (also fuse 10); Speedometer/Indicators (also fuse 12).
9	15A (LT BU)	ldle Speed Control/Vacuum Advance; Backup Lights.
10	7.5A (BR)	Seatbelt Warning (also fuse 8); Service Interval Indicator (also fuse 24); Tachometer/Fuel Economy Gauges (also fuse 24); Gauges/Indicators; Brake Warning System.
11	15A (LT BU)	Fuel Delivery.
12	7.5A (BR)	Radio (also fuse 21); Speedometer/Indicators (also fuse 8).
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	15A (LT BU)	Accessory Connector.(Not Used)
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, 22, 27). Power Mirrors.

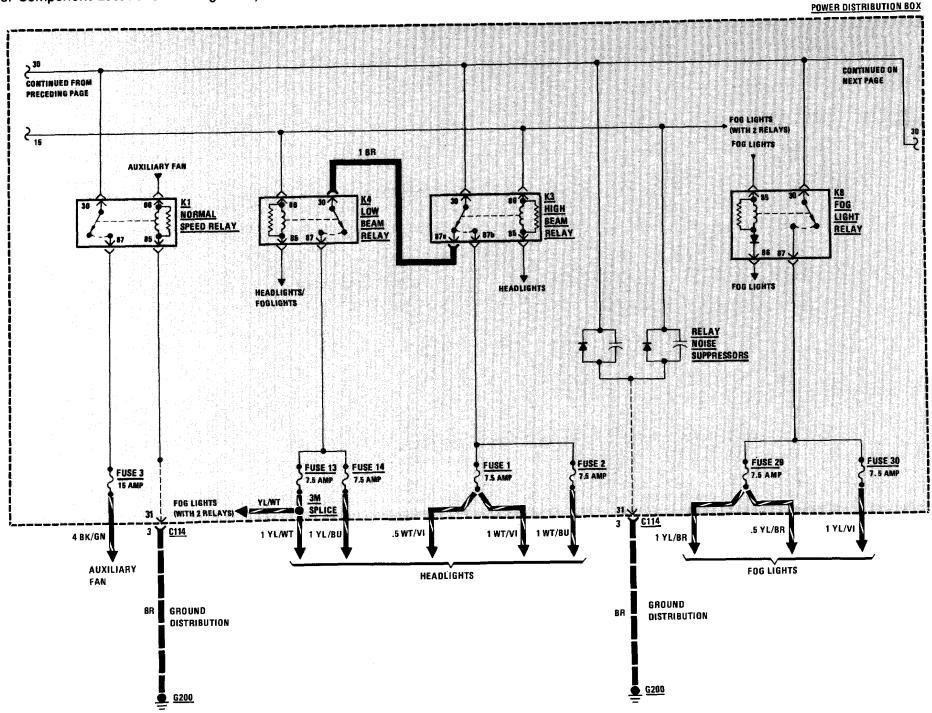
FUSE NO.	SIZE/ COLOR	CIRCUIT NAME
20	30A (LT GN)	Heater/Air Conditioning (also fuse 28).
21	7.5A (BR)	Auto-Charging Flashlight; Digital Clock; Glove Box Light; Ignition Key Warning; Interior Lights (also fuses 14, 22, 27); Radio (also fuses 12); Trunk Light.
22	7.5A (BR)	Interior Lights (also fuses 19, 21, 27); Lights: Front Park/Tail; Lights: Front Side Marker.
23	7.5A (BR)	Lights: Dash; Lights: Front Park/Tail; Lights: Front Side Marker; Lights: Rear Marker/License.
24	15A (LT BU)	Lights: Turn/Hazard Warning (also fuse 4); Tachometer/Fuel Economy Gauges (also fuse 10); Service Interval Indicator (also fuse 10).
25	25A (WT)	Not Used.
26	25A (WT)	Not Used.
27	25A (WT)	Interior Lights (also fuses 19, 21, 22). Central Locking.
28	25A (WT)	Cigar Lighter; Power Antenna.
29	7.5A (BR)	Fog Lights.
30	7.5A (BR)	Fog Lights.

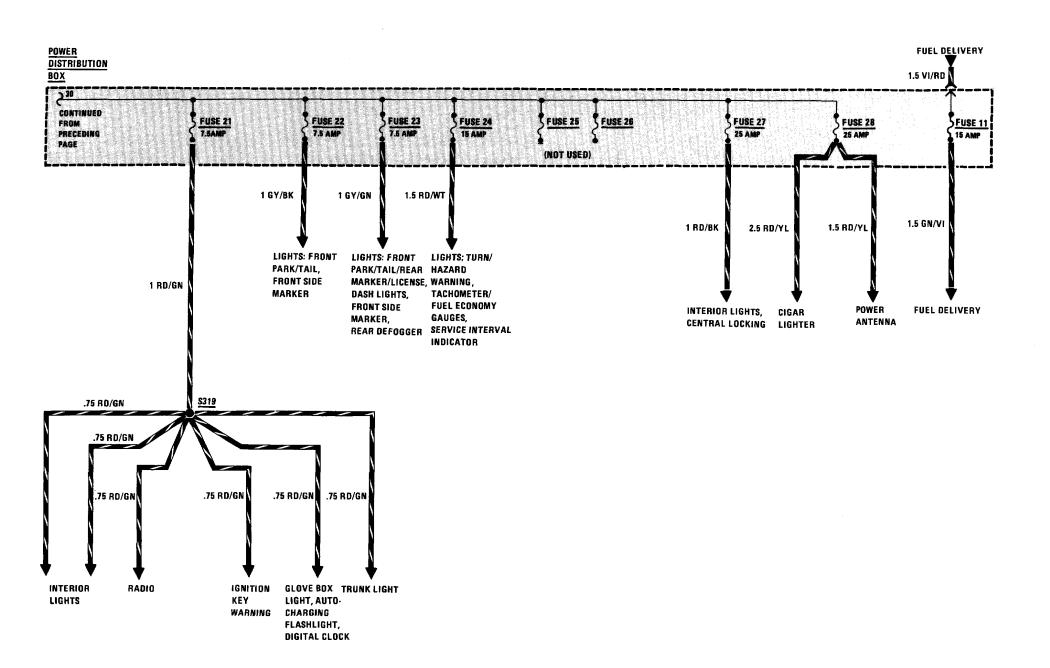


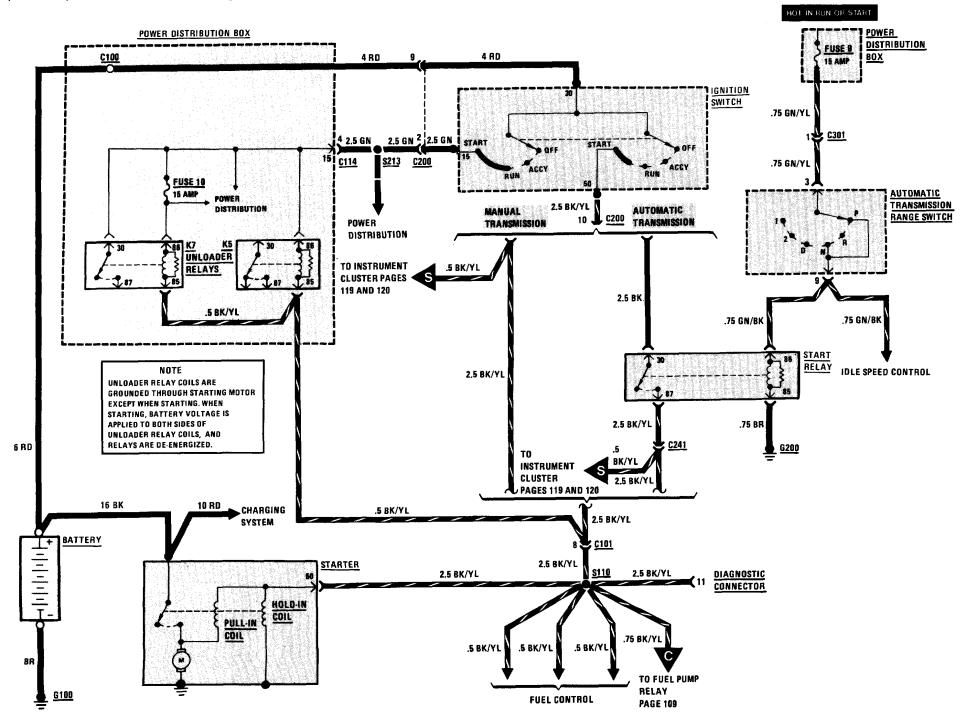


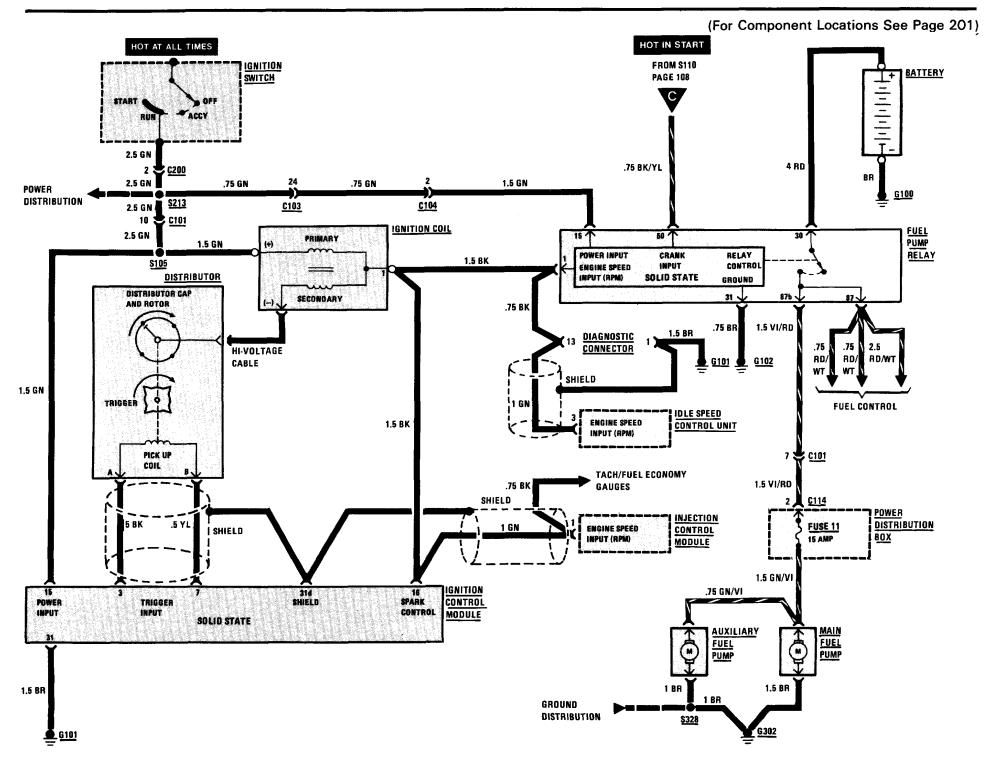
SYSTEM.

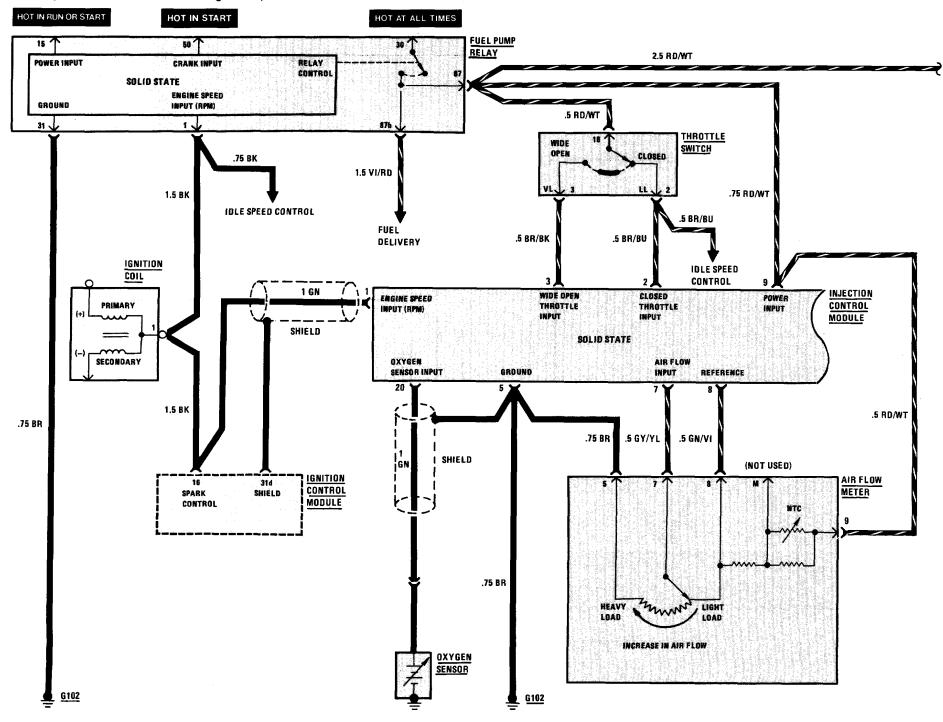
SERVICE INTERVAL INDICATOR



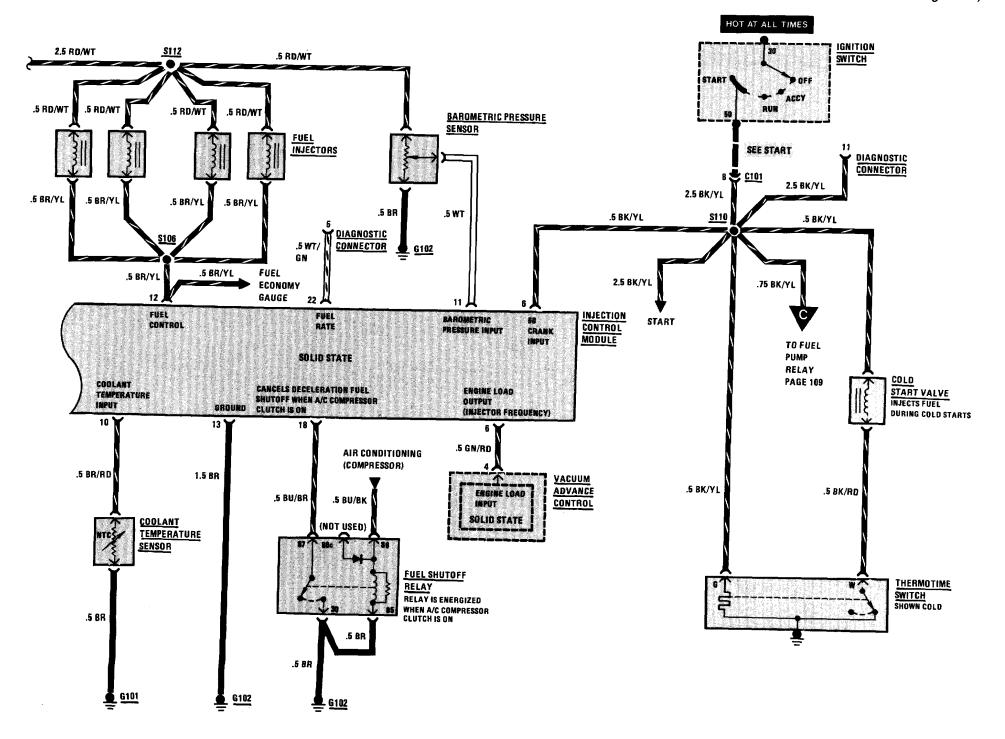


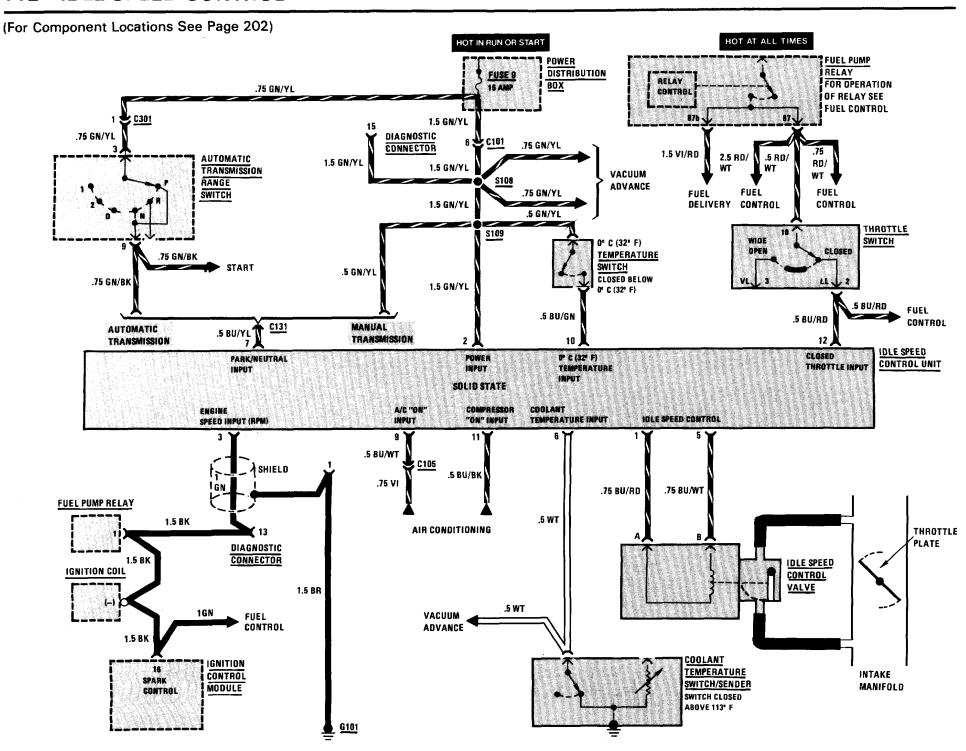


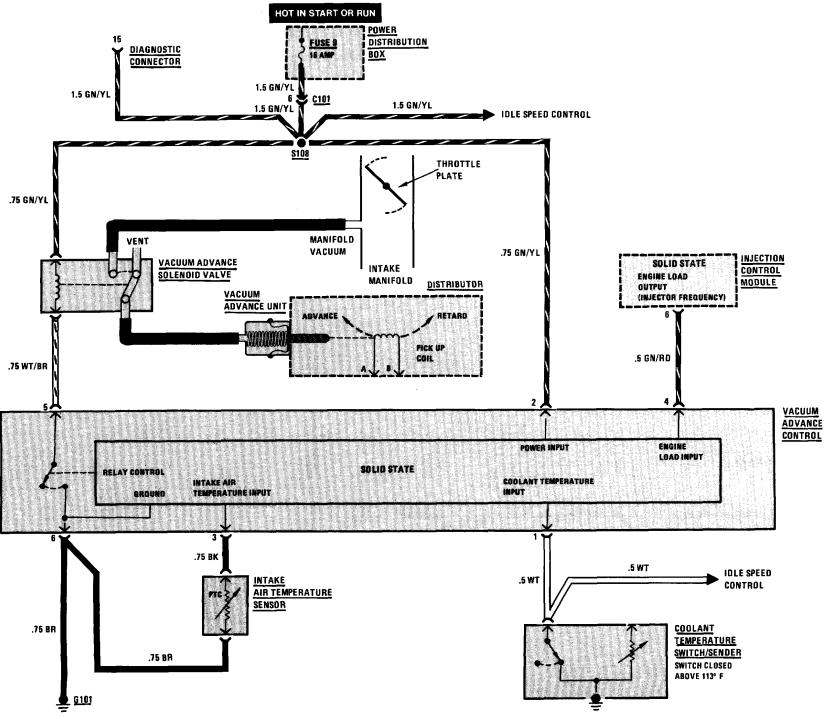


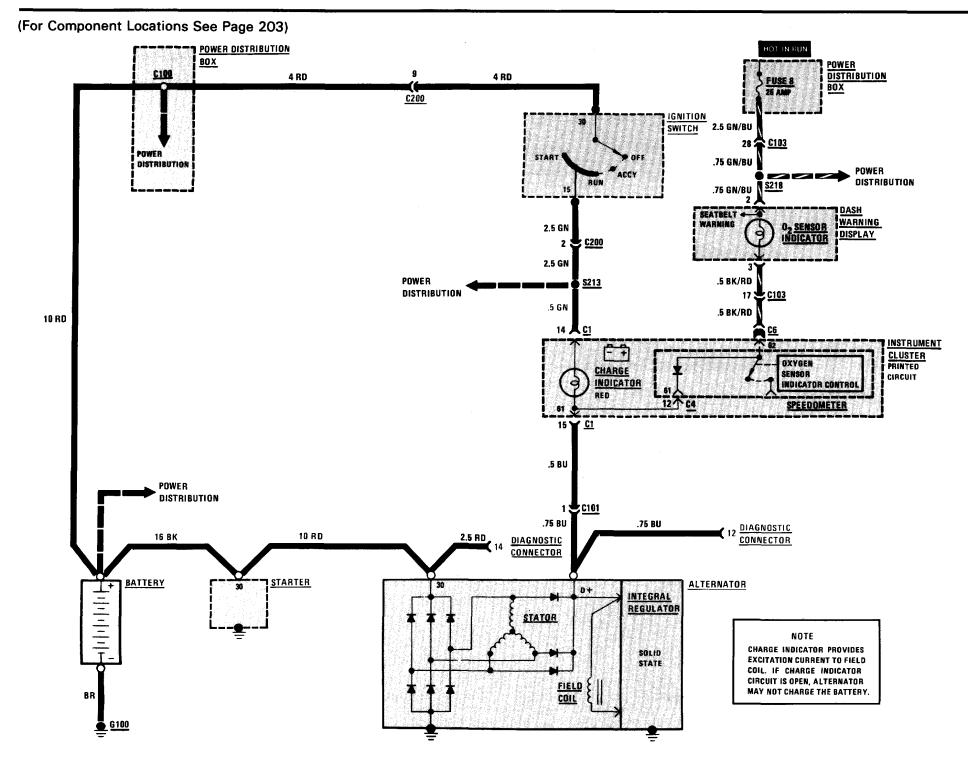


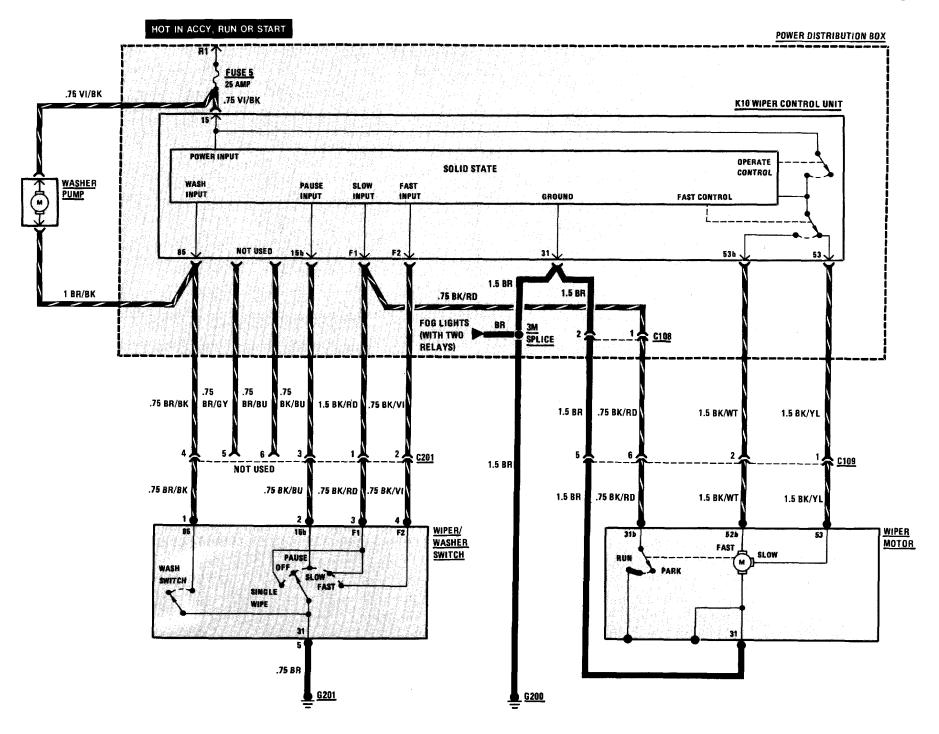
FUEL CONTROL 111

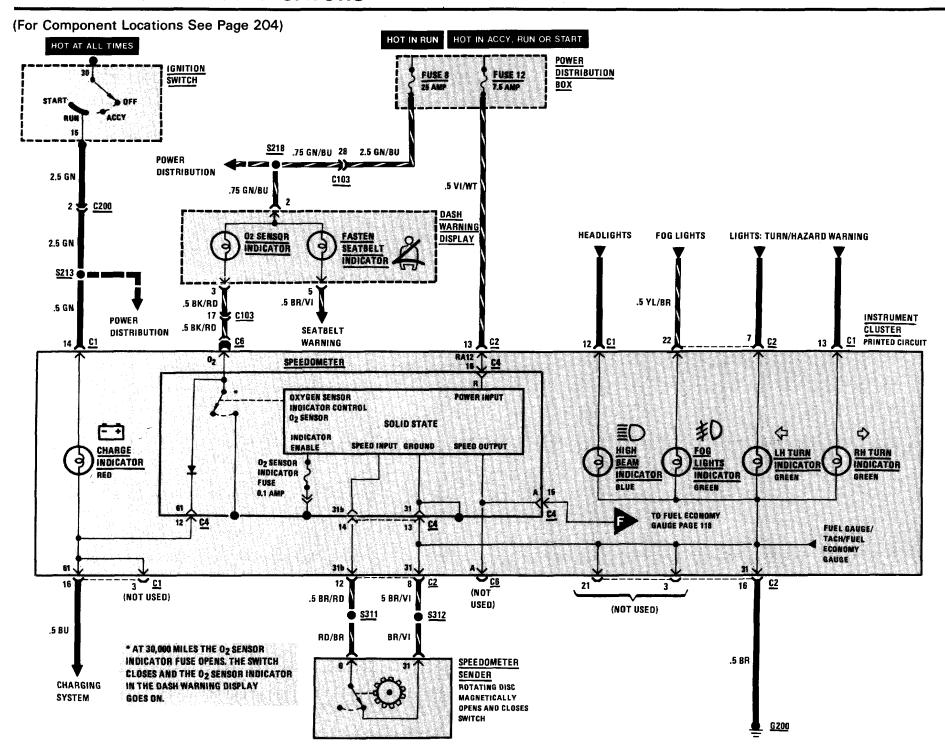


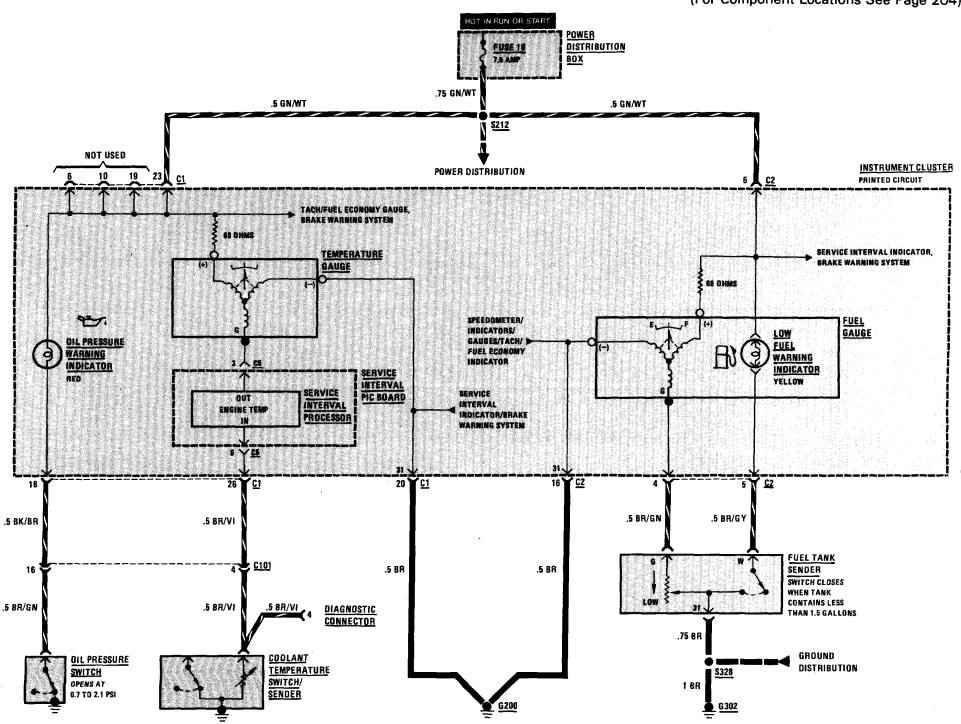


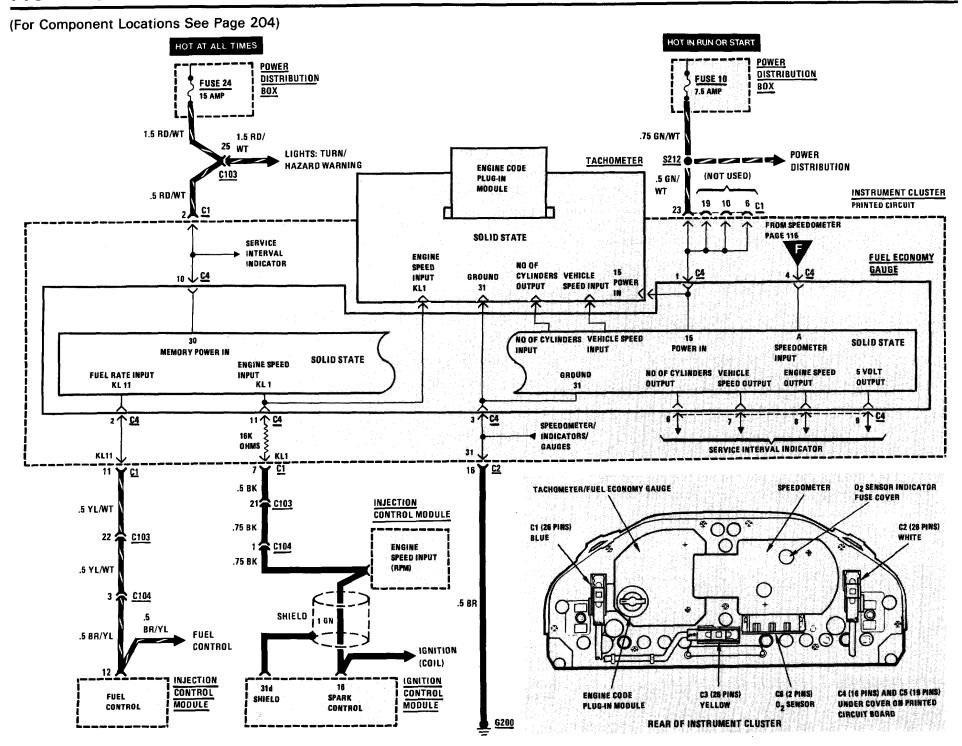


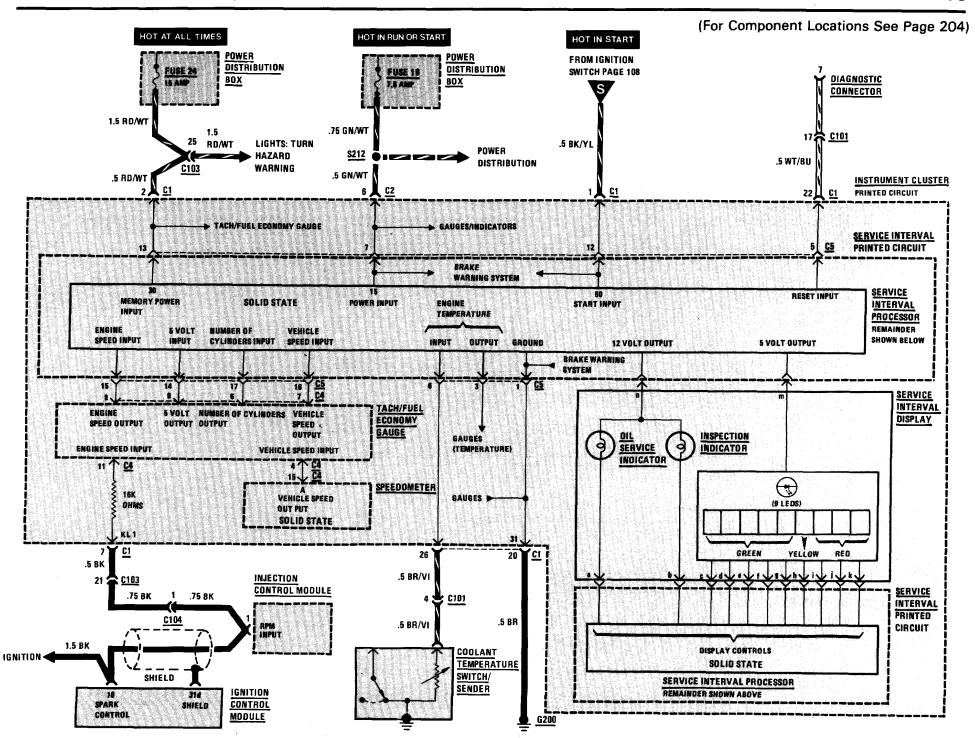


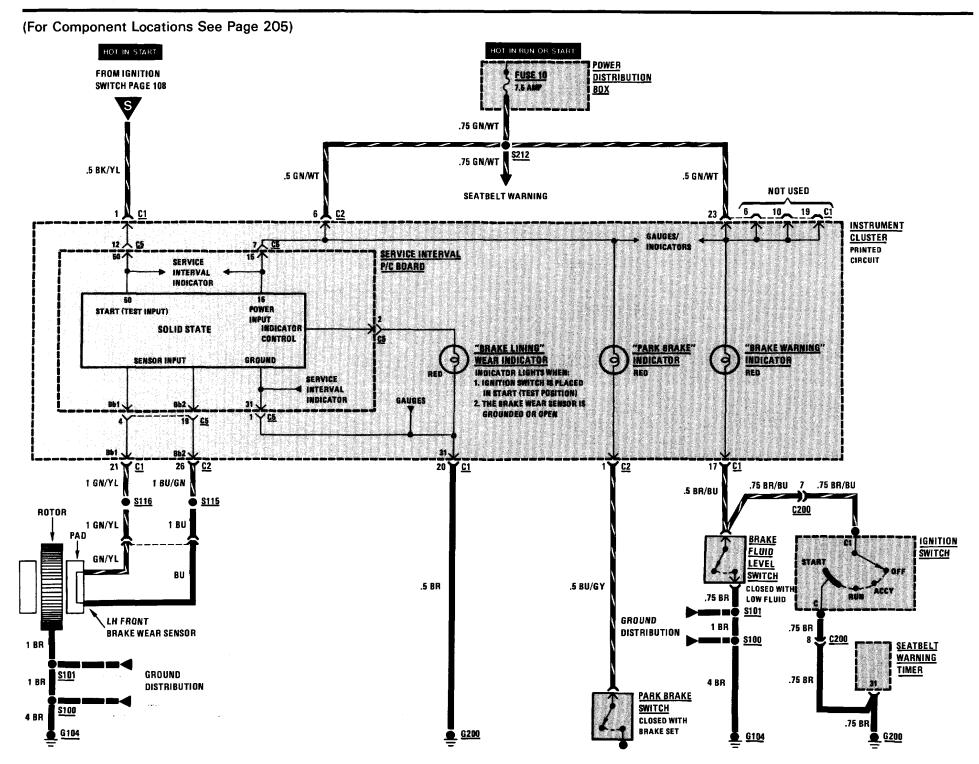


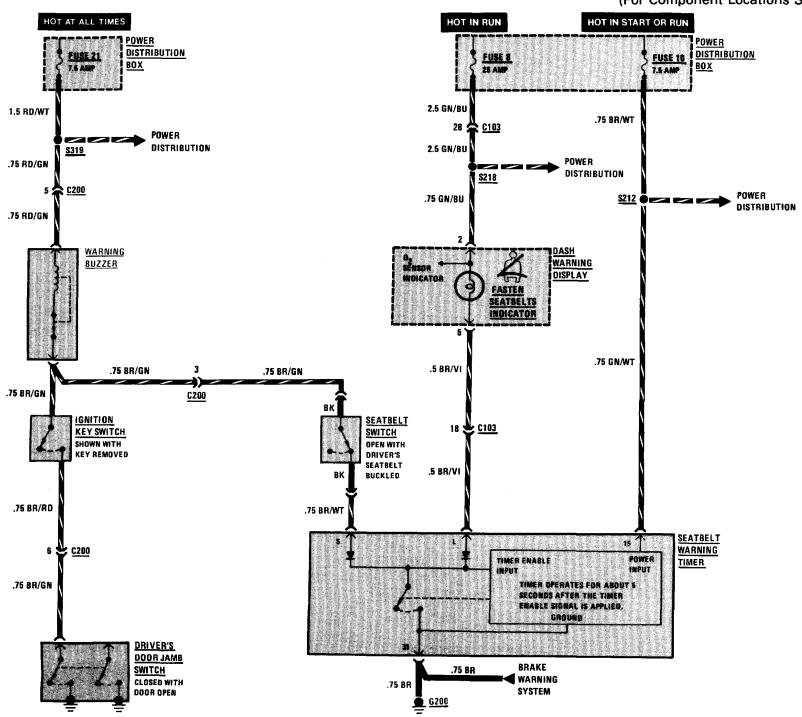


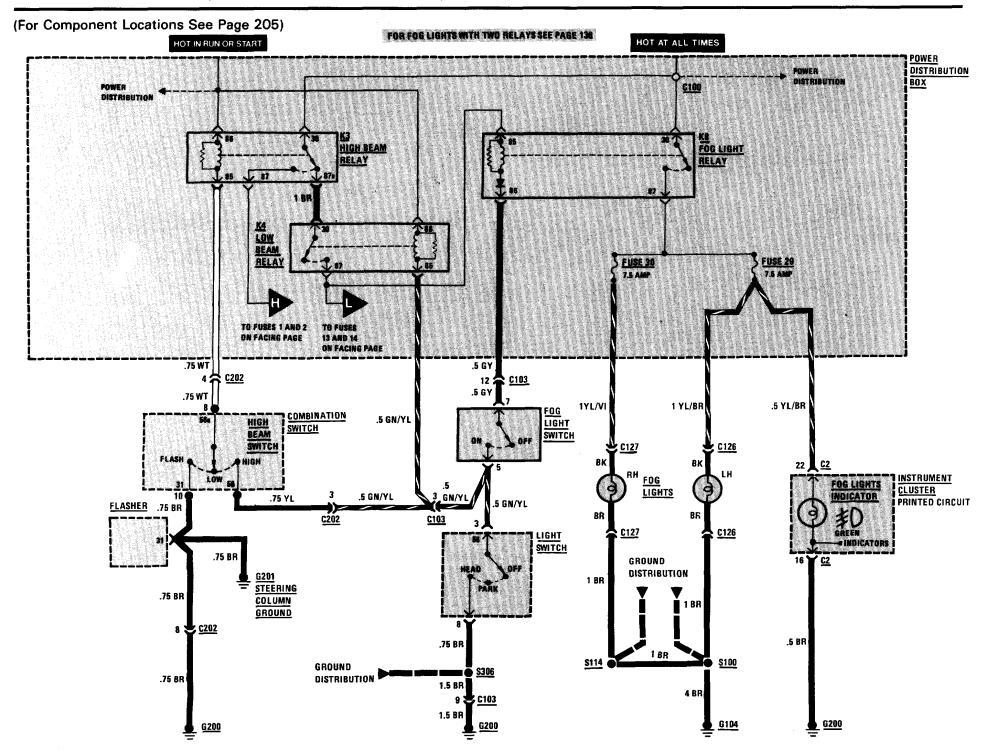


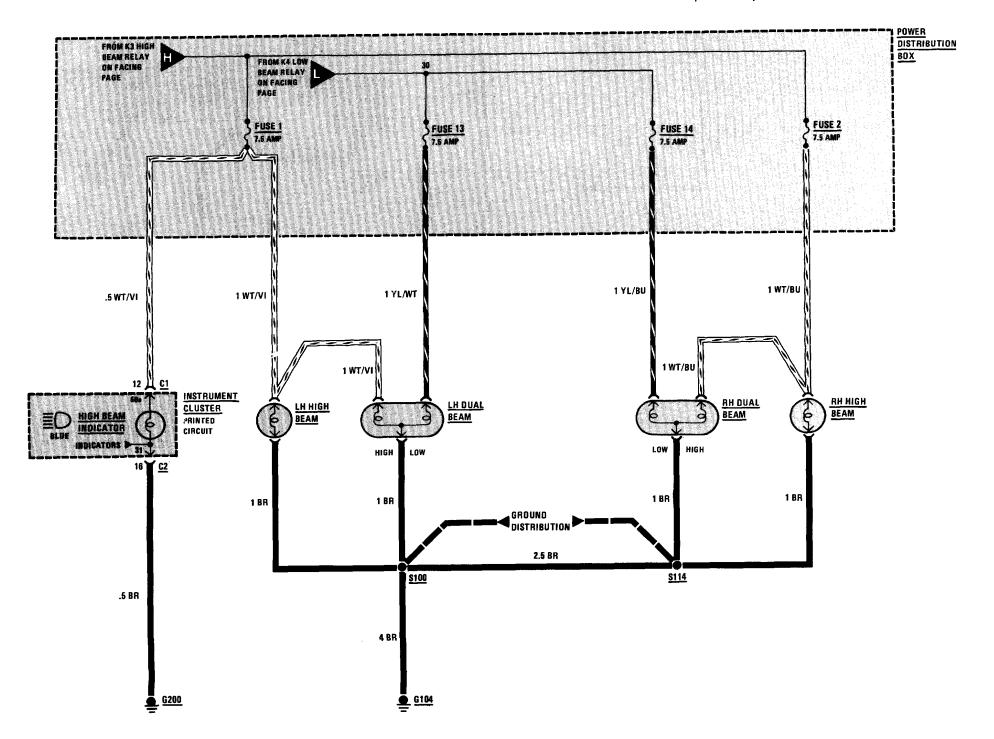


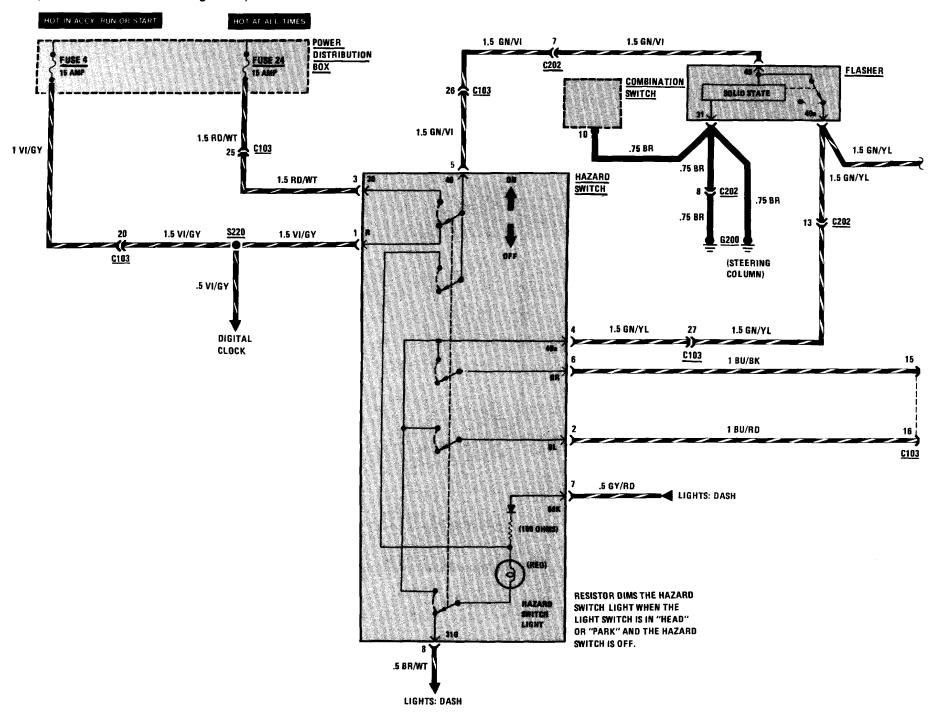


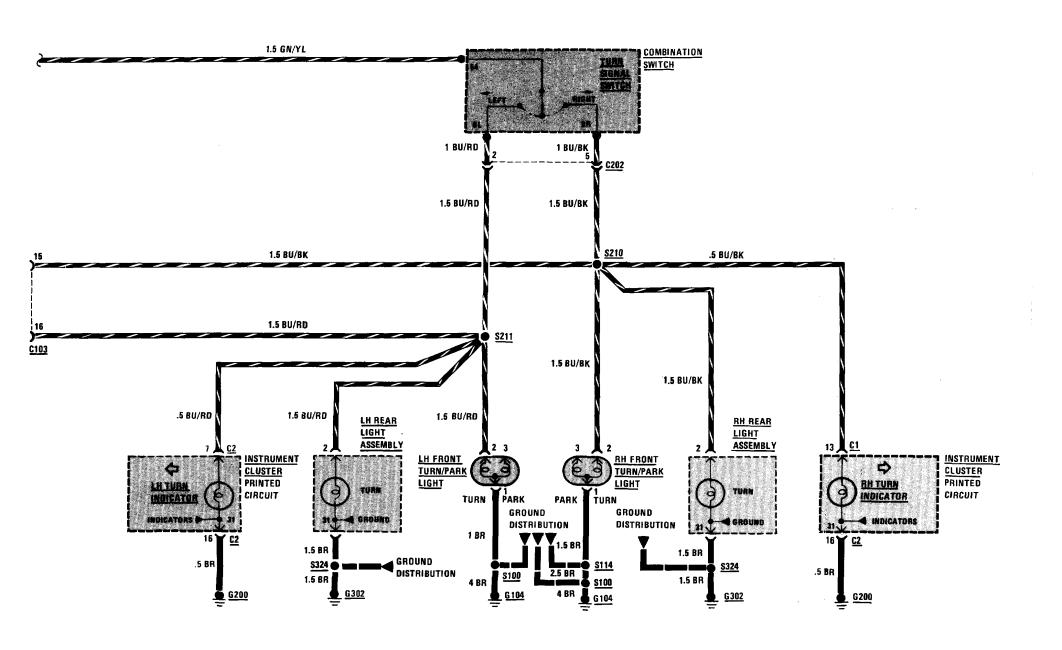


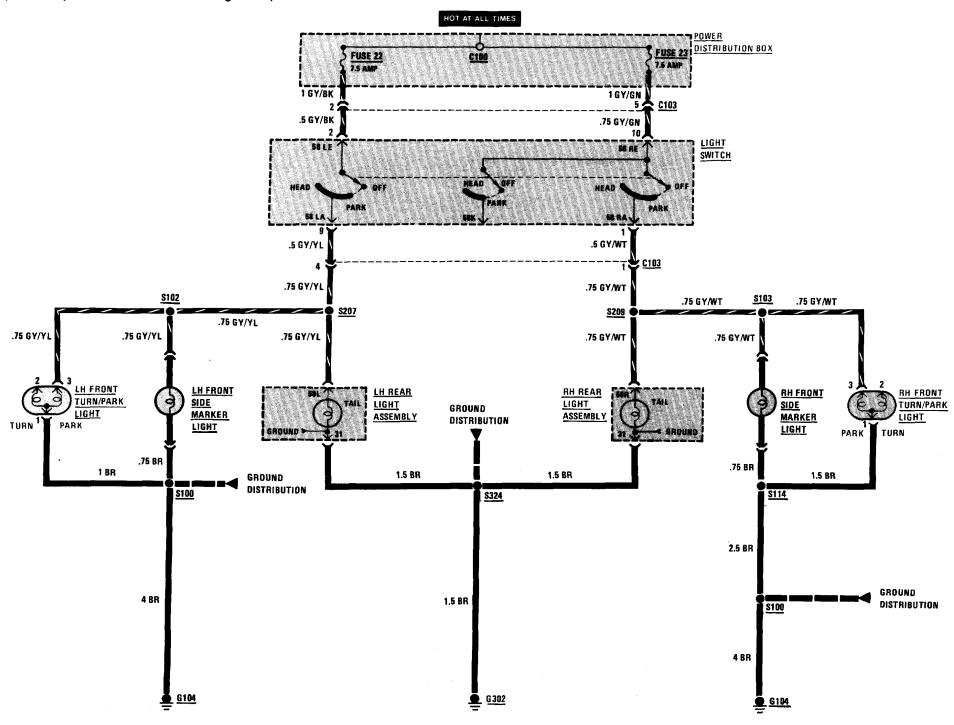




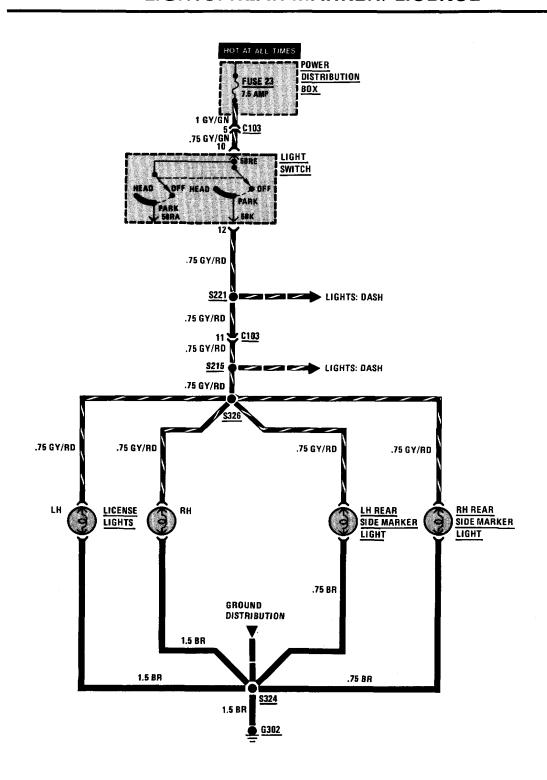


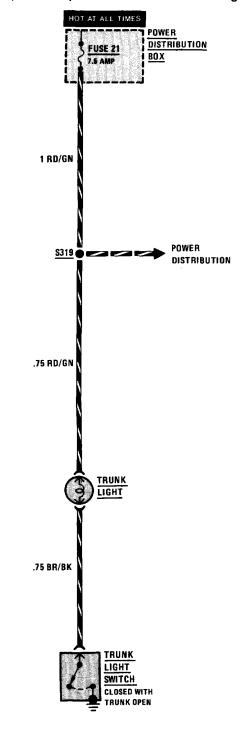




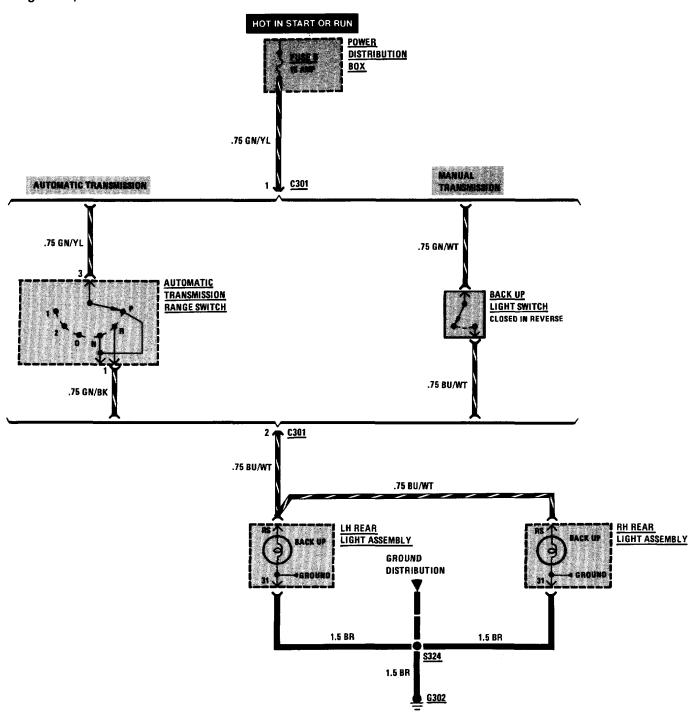


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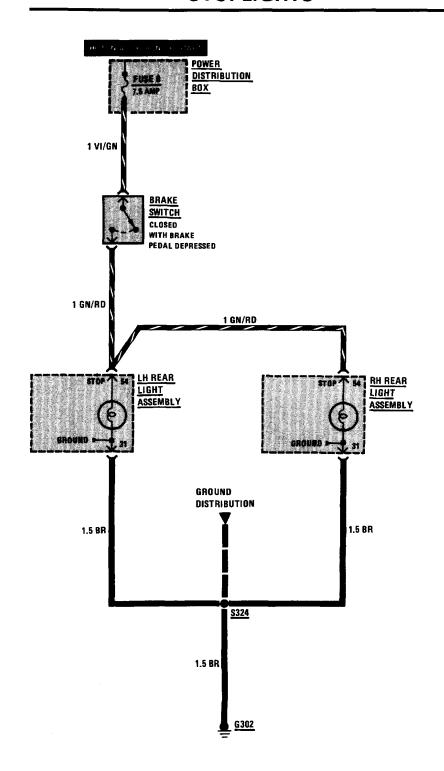


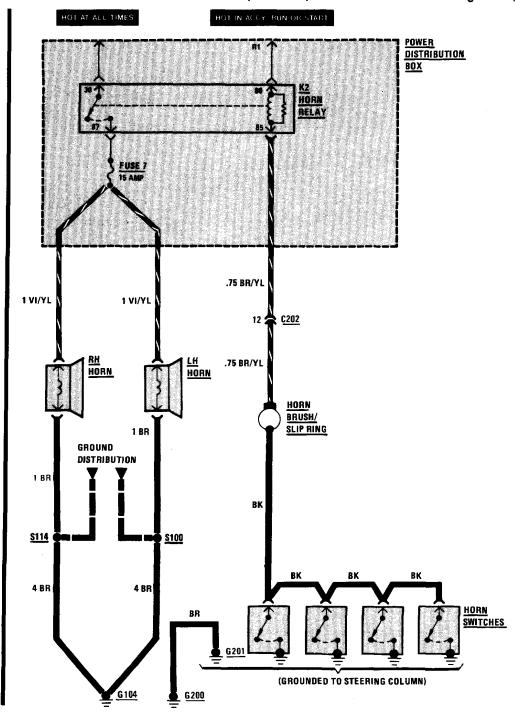


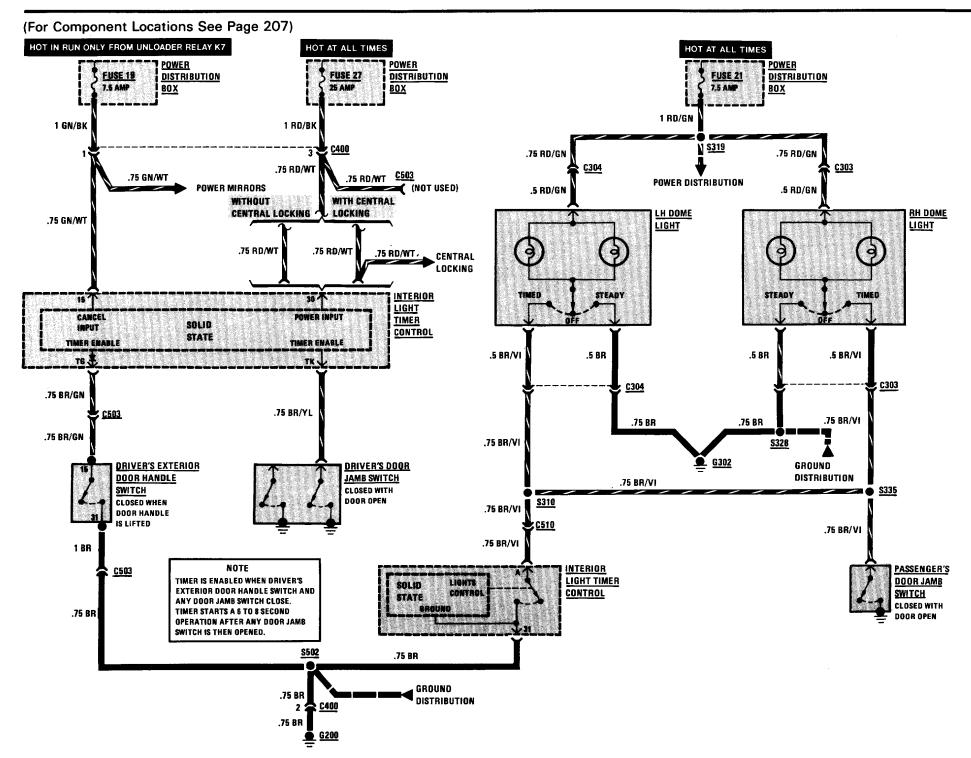
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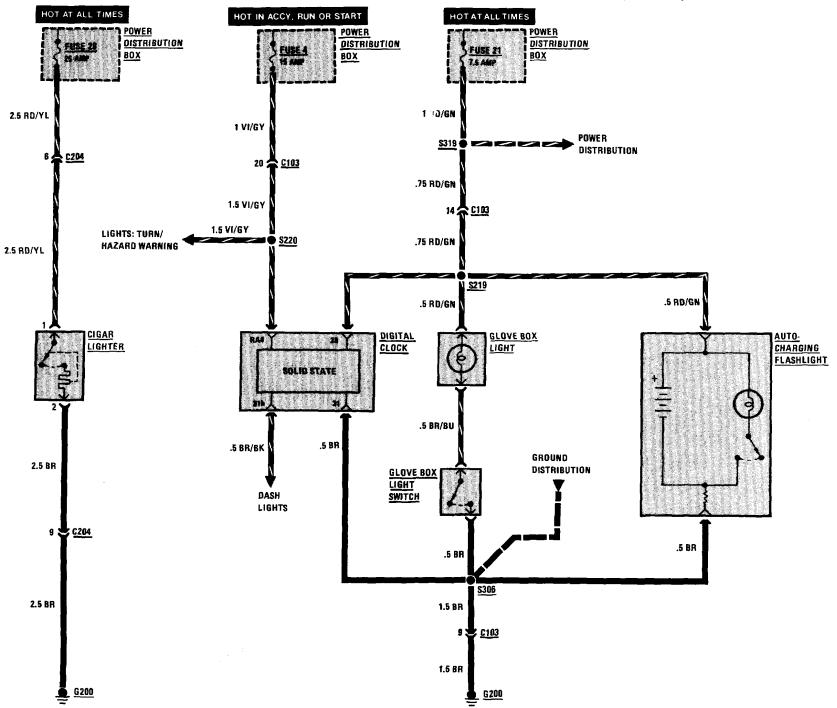
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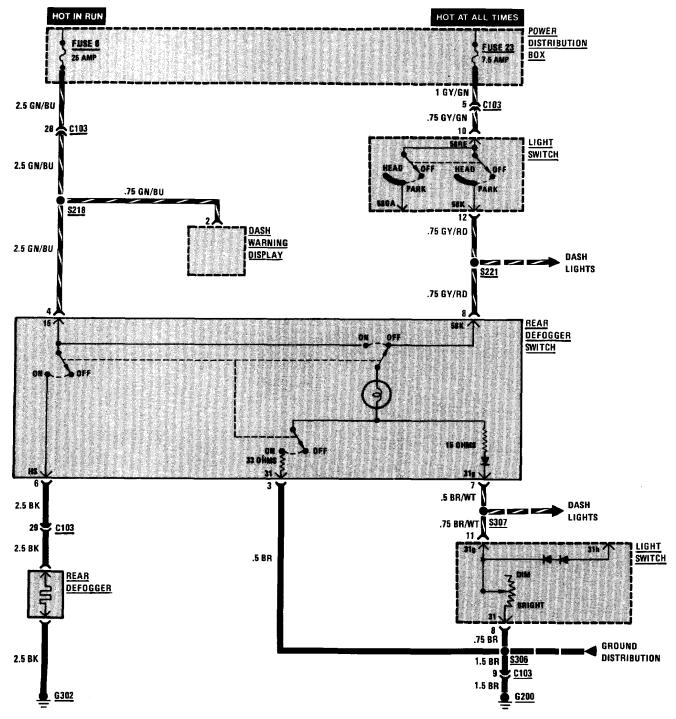




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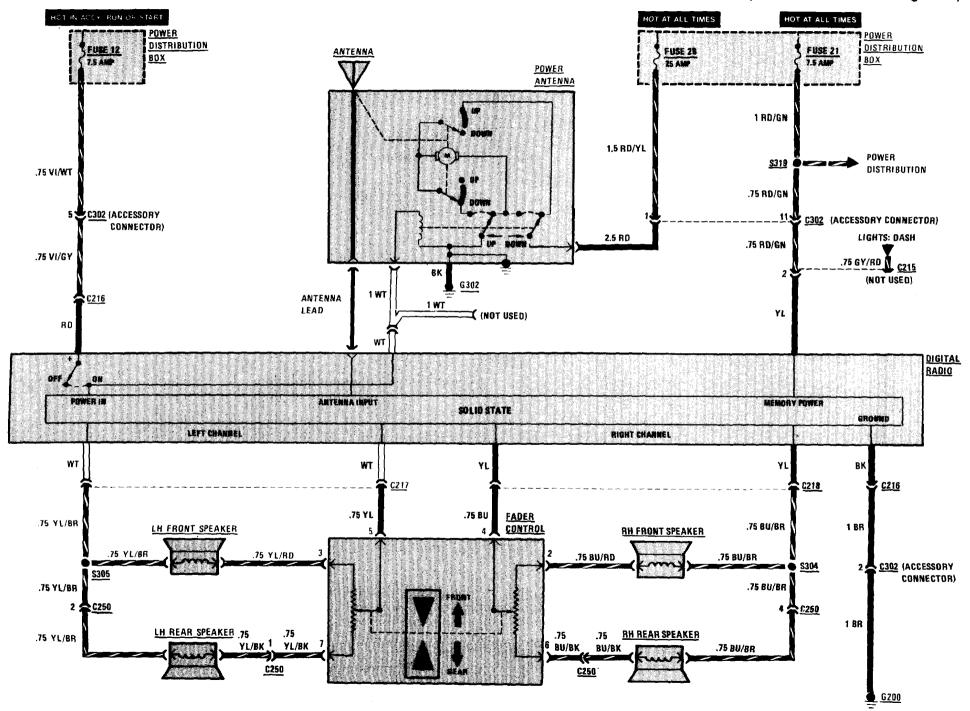


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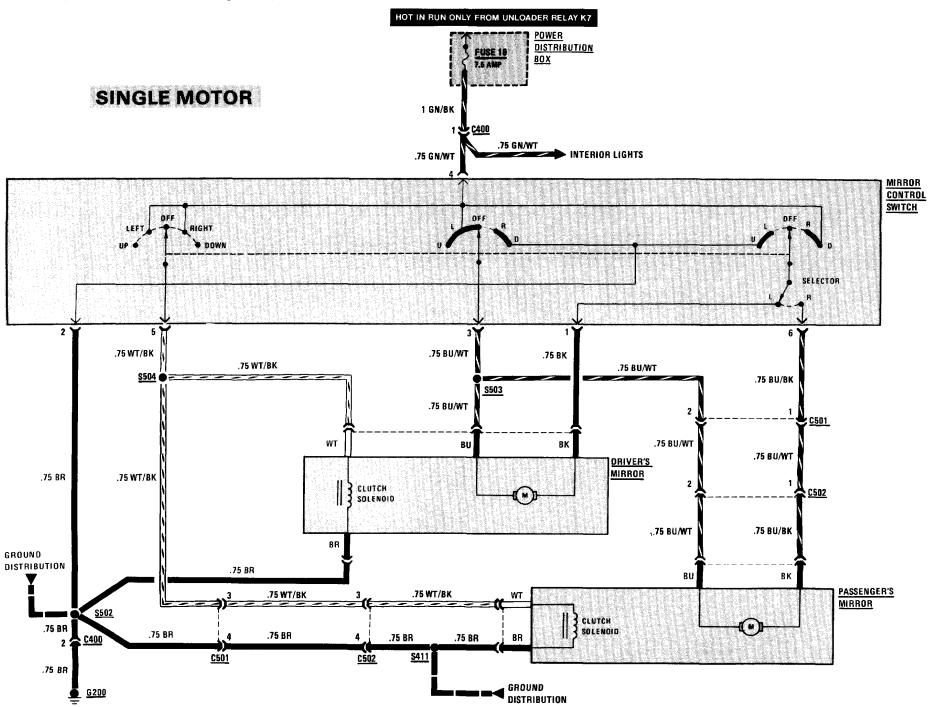


RADIO/POWER ANTENNA 133

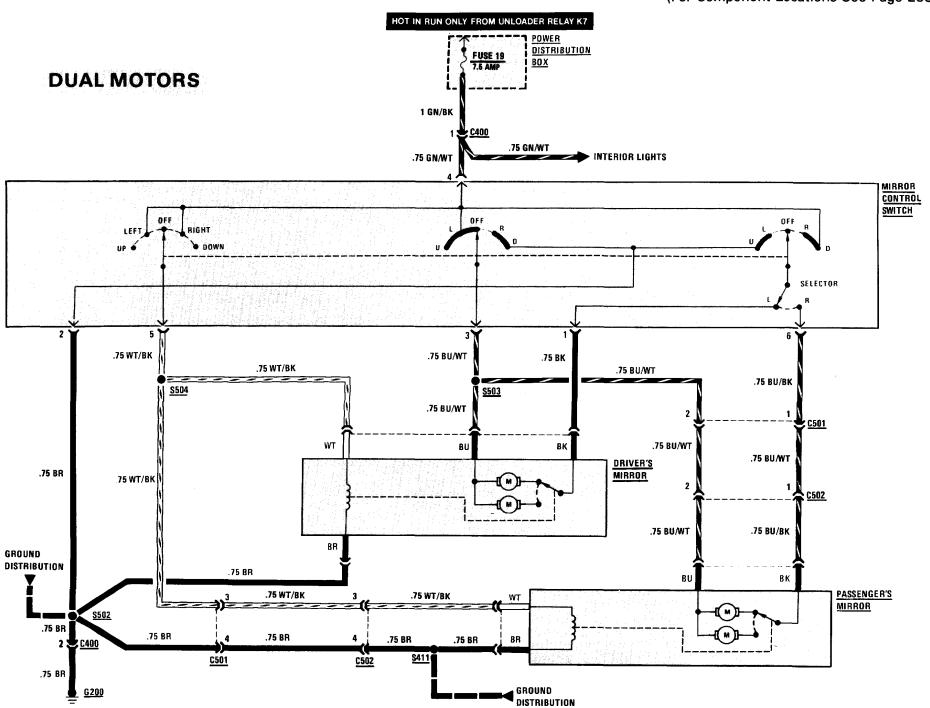
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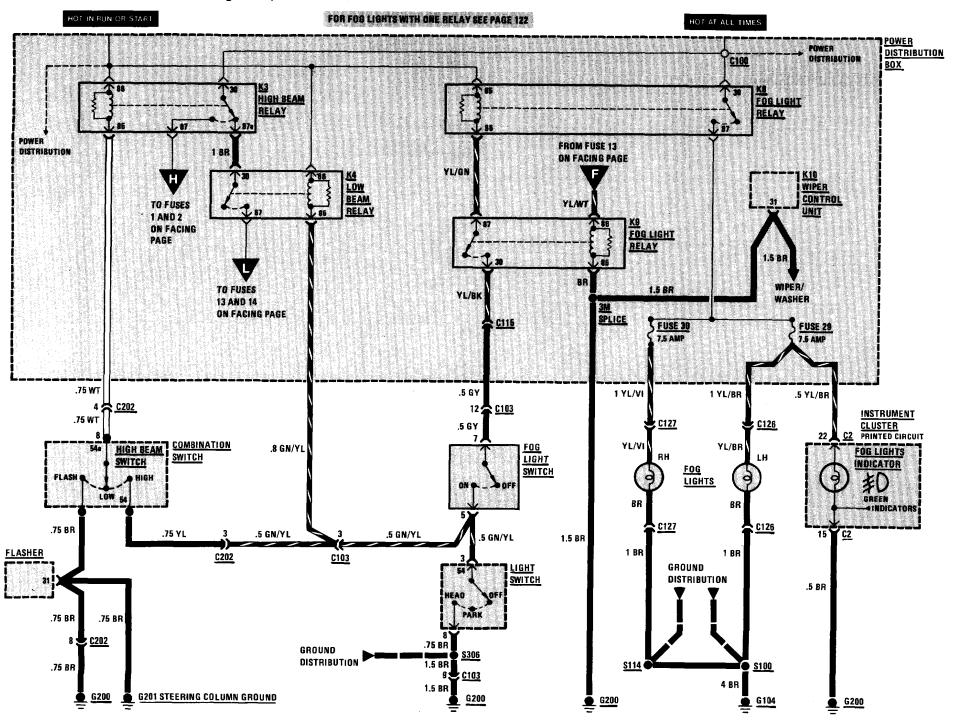
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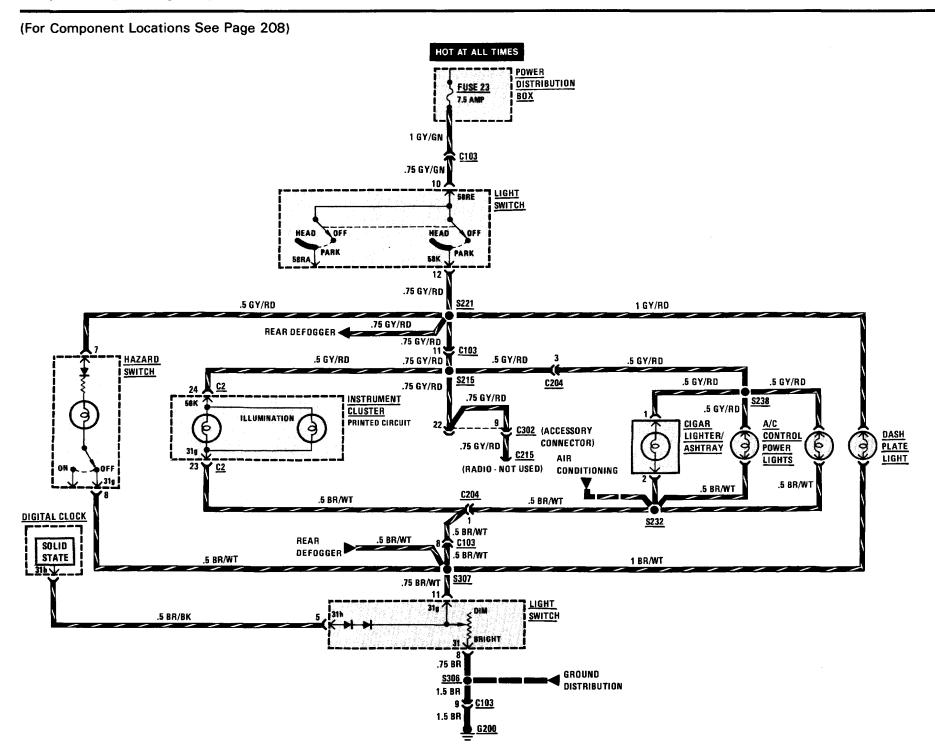
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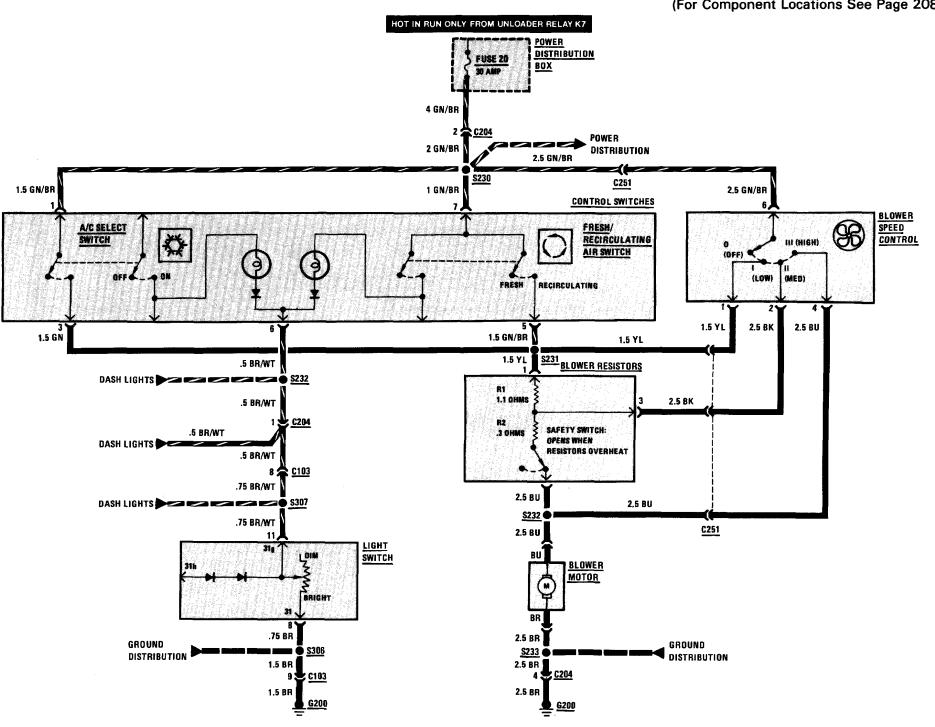
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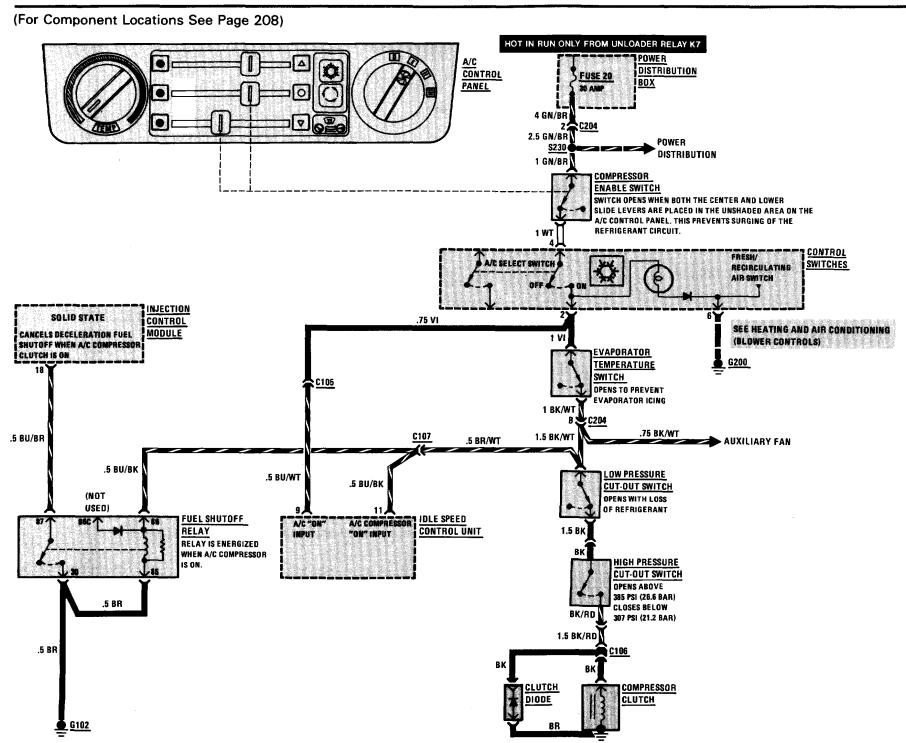
(For Component Locations See Page 205) POWER DISTRIBUTION FROM AS HISH BEAN RELAY ON FACING вох FROM K4 LOW BEAM RELAY ON FACING PAGE PAGE FUSE 14 7.5 AMP FUSE 2 7.5 AMP FUSE 13 7.5 AMP FUSE 1 7.5 AMP TO FOR LIGHT YL/WT 3M SPLICE RELAY KE ON FACING PAGE 1 WT/BU 1 YL/BU 1 YL/WT 1 WT/VI .5 WT/VI 1 WT/BU 1 WT/VI LH DUAL BEAM RH DUAL INSTRUMENT [RH HIGH BEAM LH HIGH BEAM BEAM CLUSTER PRINTED LOW ' INDICATOR CIRCUIT INDICATORS 16 Y C2 1 BR 1 BR 1 BR 1 BR GROUND Distribution 2.5 BR S114 S100 .5 BR 4 BR <u>G200</u> G104



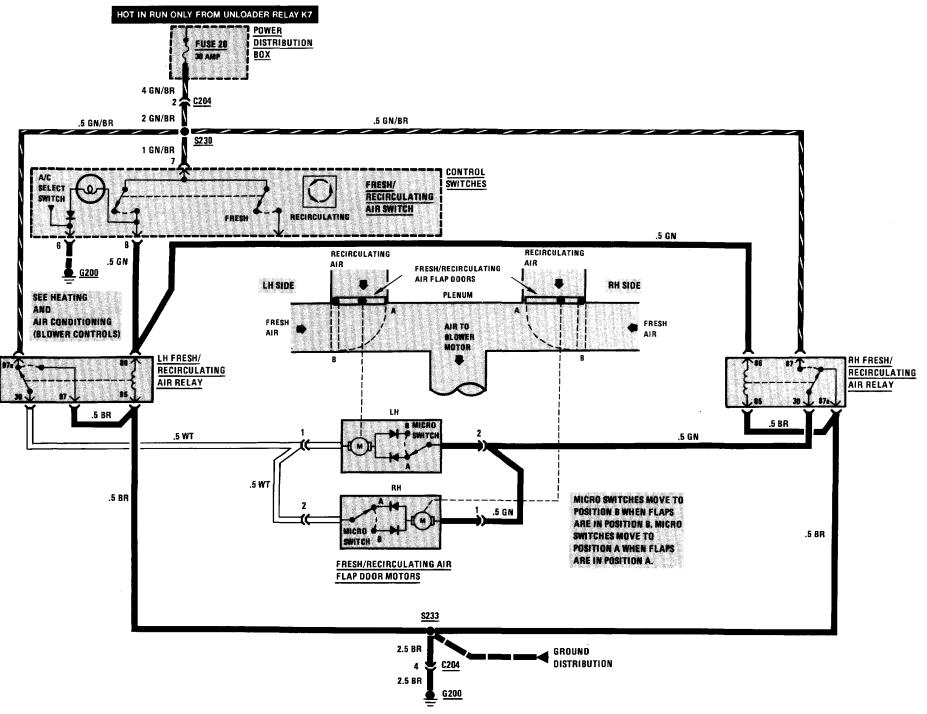
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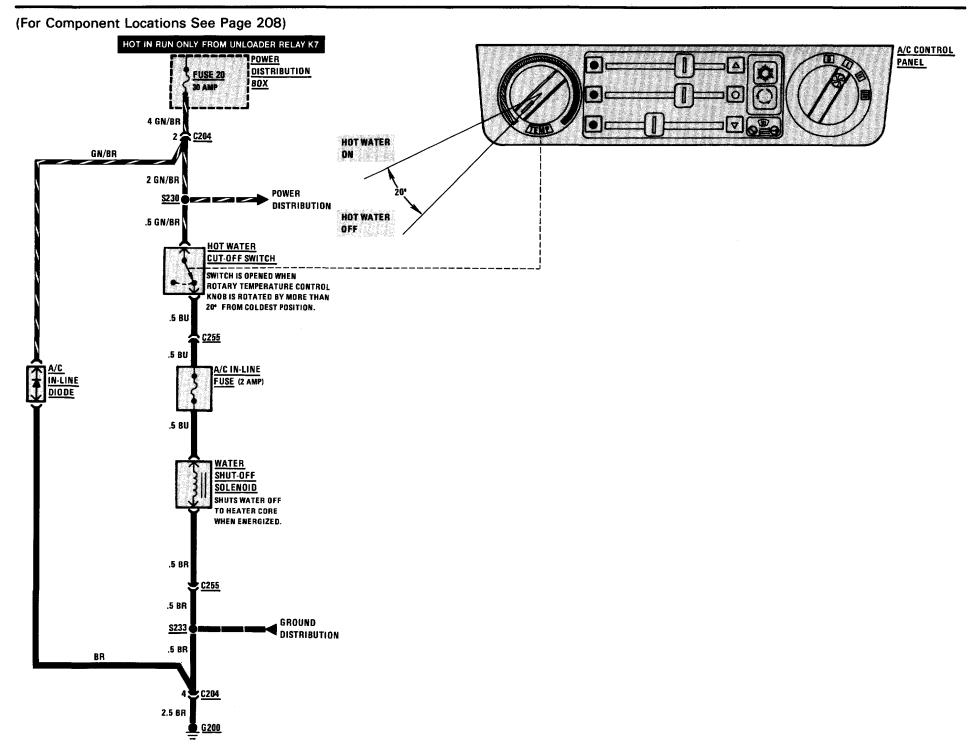


140 HEATING AND AIR CONDITIONING (COMPRESSOR CONTROLS)

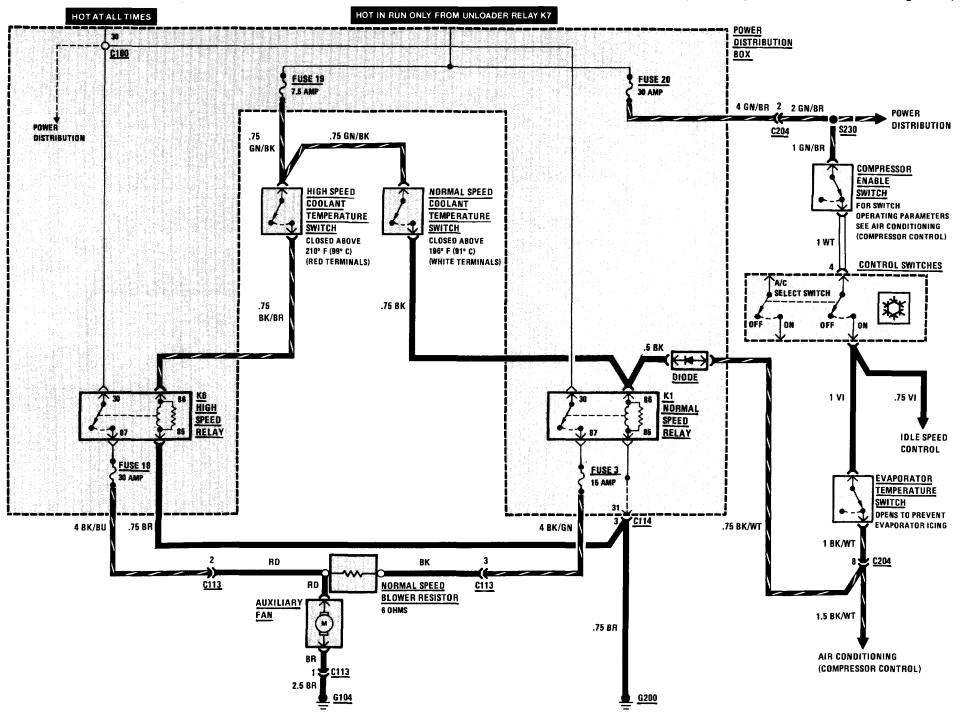


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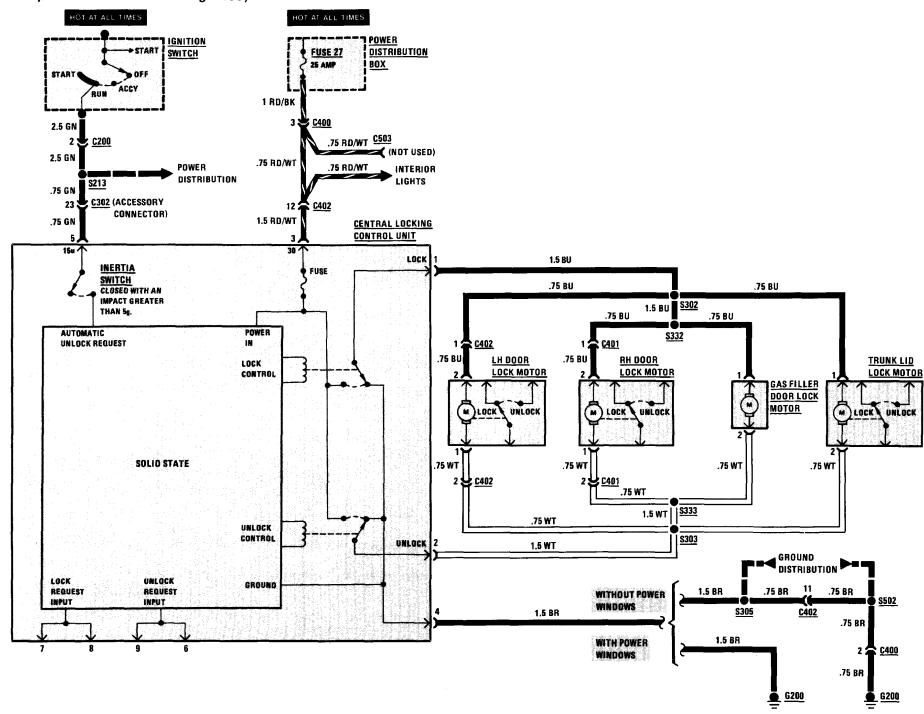




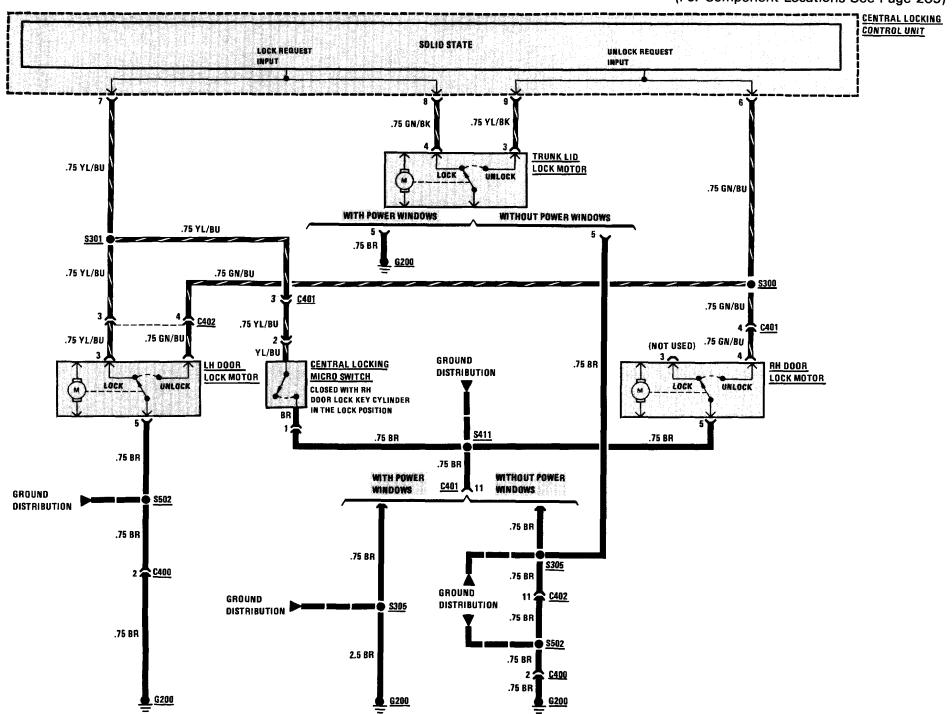
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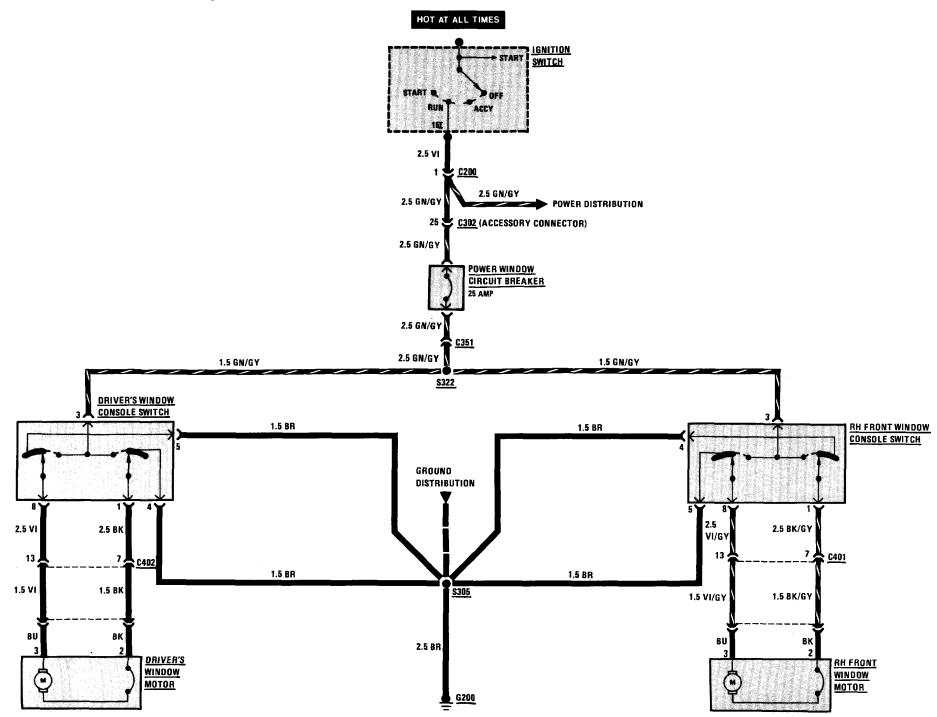
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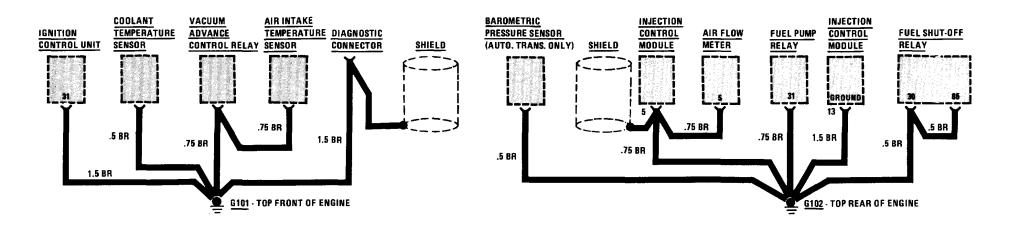


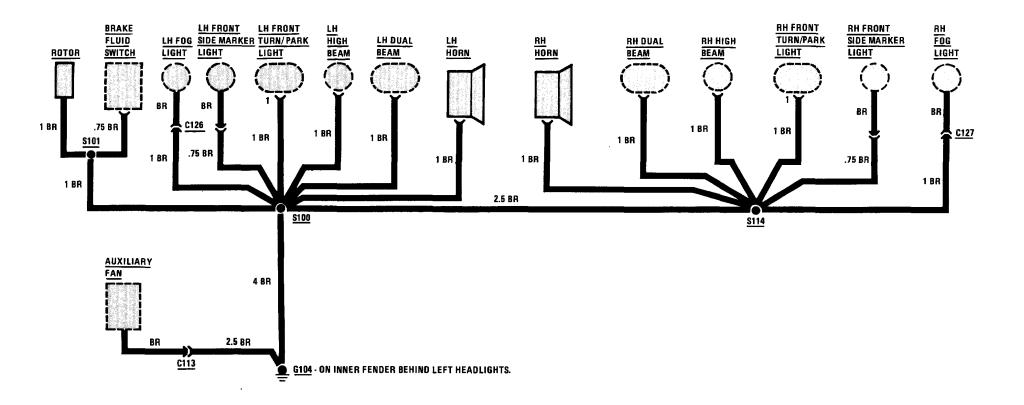
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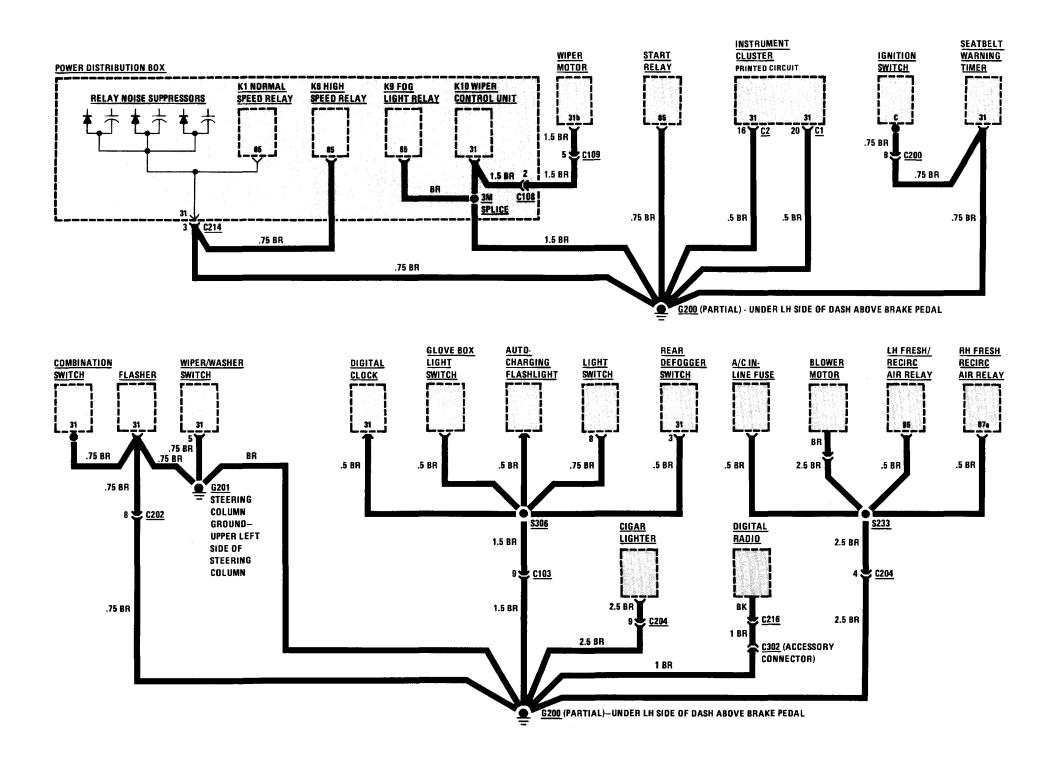


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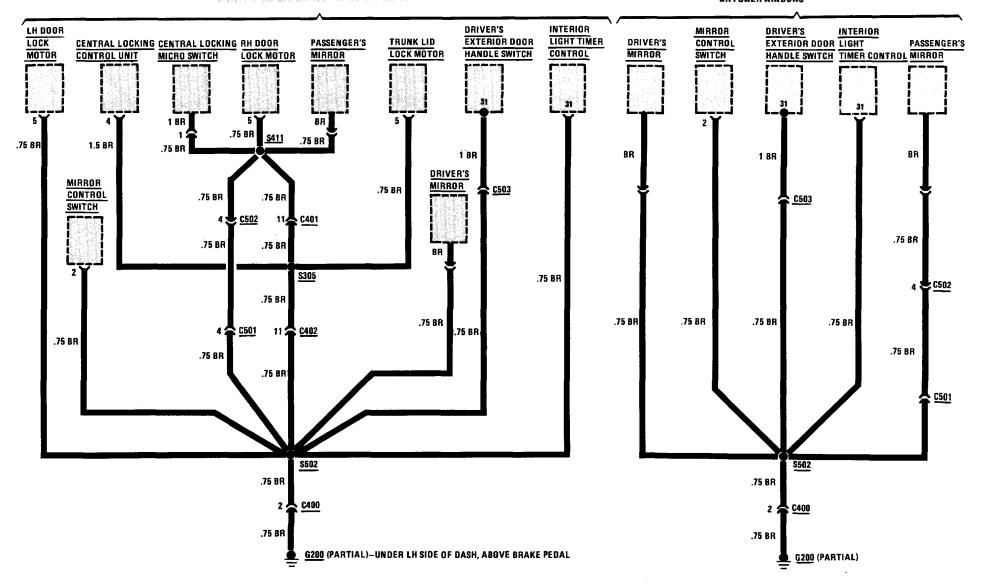


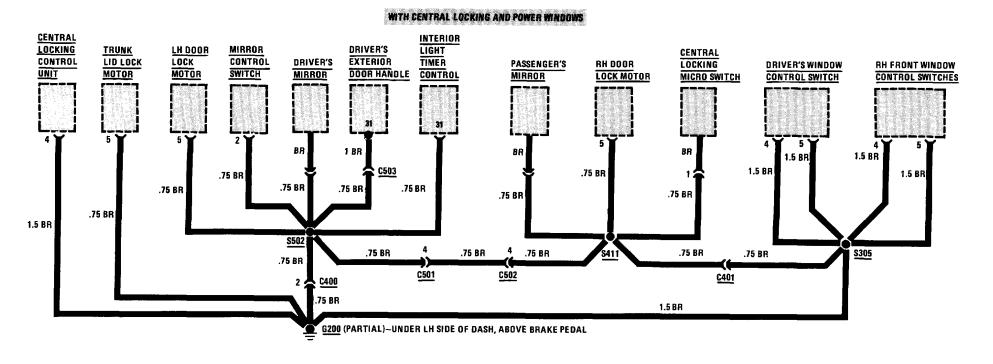


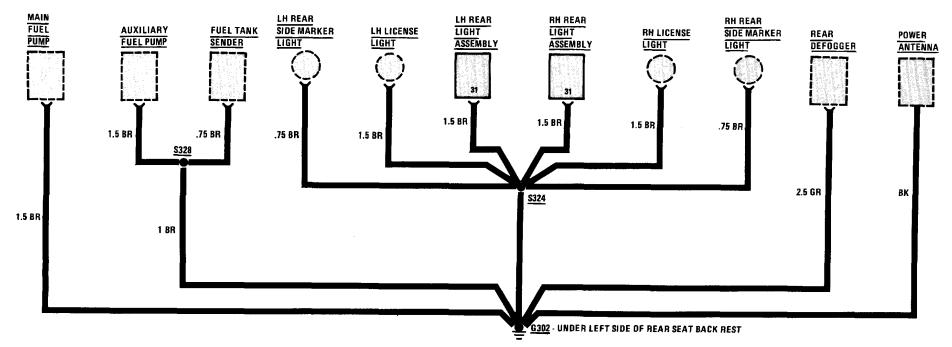


CENTRAL LOCKING WITHOUT POWER WINDOWS

POWER MIRRORS AND INTERIOR LIGHTS WITH CENTRAL LOCKING OR POWER WINDOWS







POWER DISTRIBUTION

Diagnostic Connector Ignition Switch	Top front of engine	202-2
Power Distribution Box	At top rear of left front wheel well Under left side of dash, on steering column	201-1 201-1
C302 (25 pins) Accy Connector G100	Upper left corner of driver's footwell Behind right front shock tower	211-3
G200	Under left side of dash, above brake pedal	210-2

START

Automatic Trans. Range Switch	At base of shift lever	
Diagnostic Connector	Top front of engine	202-2
Ignition Switch	Upper part of steering column	
Power Distribution Box	At top rear of left front wheel well	201-1
Start Relay	Upper left corner of drivers footwell	
C101 (19 pins)	On power distribution box	201-1
C200 (9 pins)	Under left side of dash, on steering	
	column	210-1
C241 (1 pins)	Behind instrument panel, above steering	
	column	208-2
C301 (2 pins)	At base of shift level	
G100	Behind right front shock tower	
G200	Under left side of dash, above brack pedal	210-2

IGNITION/FUEL DELIVERY

IGITITION I GEE DELIVERT		
Auxiliary Fuel Pump Diagnostic Connector Fuel Pump Relay Idle Speed Control Unit Ignition Coil Ignition Control Module	In fuel tank	209-1 202-2 201-2 202-1
Ignition Switch	booster	203-2
Injection Control Module Main Fuel Pump	Right side of dash, above glove box Under car, in front of left rear wheel	202-1
Power Distribution Box C101 (19 pins) C103 (29 pins)	At top rear of left front wheel well On power distribution box Upper left corner of driver's footwell	201-1 201-1 211-3

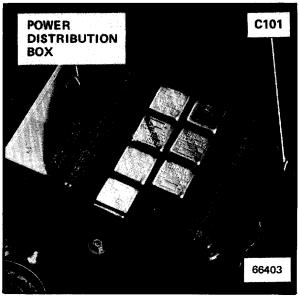


Figure 1 - Behind Left Front Shock Tower

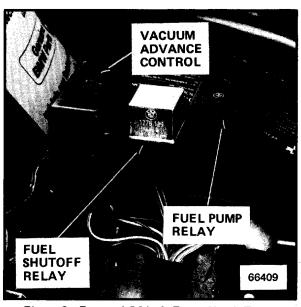


Figure 2 - Forward Of Left Front Shock Tower

(continued)		
C104 (3 pins)	Right side of dash, above glove box Under left side of dash, on steering	212-6
G100	column	210-1
G101	Top front of engine	203-1
G302	Top rear of engine Under left side of rear seat	209-2
FUEL CONTROL		
Air Flow Meter Barometric Pressure Sensor Cold Start Valve Coolant Temperature Sensor Diagnostic Connector Fuel Pump Relay Fuel Shutoff Relay Ignition Coil Ignition Control Module Ignition Switch Injection Control Module Oxygen Sensor Thermotime Switch Throttle Switch Vacuum Advance Control C101 (19 pins) G101	Behind air cleaner Mounted on air intake housing Top center of engine. Front of engine, top of thermostat housing Top front of engine On bracket in front of left front shock tower On bracket in front of left front shock tower On right front wheel well On bulkhead, above brake vacuum booster Upper part of steering column Right side of dash, above glove box RH rear of engine, in exhaust manifold Front of engine, top of thermostat housing Below rear of throttle body On bracket in front of left front shock tower On power distribution box Top front of engine Top rear of engine	204-1 205-2 203-1 202-2 202-2 201-2 201-2 202-1 202-2 201-1 203-1
IDLE SPEED CONTROL		
0°C (32°F) Temp Switch Automatic Trans. Range Switch Coolant Temperature	On bulkhead, behind distributor	207-1
Switch/Sender Diagnostic Connector Fuel Pump Relay Idle Speed Control Unit Idle Speed Control Valve	Front of engine, top of thermostat housing Top front of engine On bracket in front of left front shock tower Right side of dash, above glove box Top rear of engine	202-2 202-2 201-2 202-1 203-1



Figure 1 - Below Right Side Of Dash

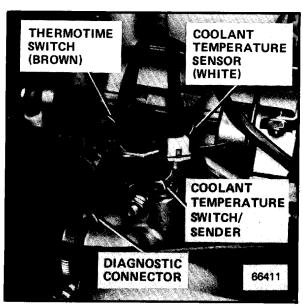


Figure 2 - Top Left Front Of Engine

(continued) Ignition Coil On right front wheel well Ignition Control Module On bulkhead, above brake vacuum booster... 203-2 At top rear of left front wheel well..... Power Distribution Box 201-1 Throttle Switch..... Below rear of throttle body C101 (19 pins) On power distribution box 201-1 Right side of evaporator housing C105 (1 pin) Right side of dash, above glove box 212-6 C131 (1 pin) C301 (2 pins) At base of shift lever Top front of engine 203-1 G101 VACUUM ADVANCE Coolant Temperature Switch/Sender Front of engine, top of thermostat housing ... 202-2 Diagnostic Connector Top front of engine 202-2 Ignition Control Module On bulkhead, above brake vacuum booster... 203-2 Intake Air Temp Sensor In air intake, behind left headlights 204-2 Power Distribution Box At top rear of left front wheel well..... 201-1 On bracket in front of left front shock tower Vacuum Advance Control 201-2 Vacuum Advance Solenoid On bulkhead, above brake vacuum booster... 203-2 Vacuum Advance Unit On distributor On power distribution box C101 (19 pins) 201-1 203-1 G101...... Top front of engine CHARGING SYSTEM Dash Warning Display Top center of dash Top front of engine Diagnostic Connector 202-2 Ignition Switch Upper part of steering column Power Distribution Box At top rear of left front wheel well..... 201-1 201-1 C101 (19 pins) On power distribution box Upper left corner of driver's footwell C103 (29 pins) 211 - 3Under left side of dash, on steering column 210-1G100..... Behind right front shock tower WIPER/WASHER Power Distribution Box At top rear of left front wheel well 201-1

Washer Pump Ahead of right front wheel well, on reservoir

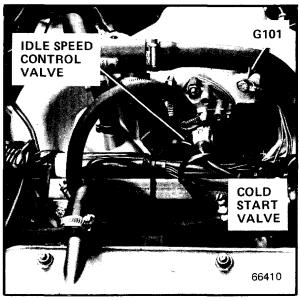


Figure 1 - Top Center Of Engine

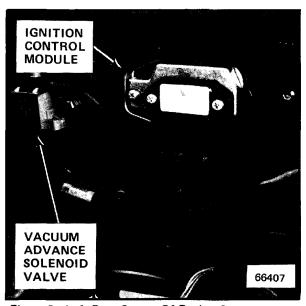


Figure 2 - Left Rear Corner Of Engine Compartment

206-2

(continued) Wiper Motor Under left side freshair intake cowl Wiper/Washer Switch Upper right side of steering column C201 (6 pins)..... Under left side of dash, on steering column ... 210-1 C108 In power distribution box C109 Near Wiper Motor G200.... Under left side of dash, above brake pedal ... 210-2 G201 (Steering Column Ground) Upper left side of steering column SPEEDOMETER/INDICATORS/GAUGES Coolant Temperature Switch/Sender Front of engine, top of thermostat housing ... 202-2 Dash Warning Display Top center of dash Diagnostic Connector Top front of engine 202-2 Fuel Tank Sender..... Top of fuel tank 209-1 Ignition Switch Upper part of steering column Oil Pressure Switch..... On top rear of cylinder head Power Distribution Box At top rear of left front wheel well..... 201-1 Speedometer Sender In rear of differential C101 (19 pins) On power distribution box 201-1 C103 (29 pins) Upper left corner of driver's footwell 211-3 C200 (9 pins)..... Under left side of dash, on steering column 210-1 G200..... Under left side of dash, above brake pedal ... 210-2 G302..... Under left side of rear seat 209-2 TACHOMETER/FUEL ECONOMY GAUGE Ignition Control Module On bulkhead, above brake vacuum booster ... 203-2 Injection Control Module Right side of dash, above glove box..... 202-1 Power Distribution Box At top rear of left front wheel well..... 201-1 C103 (29 pins) Upper left corner of driver's footwell 211-3 C104 (3 pins)..... Right side of dash, above glove box..... 212-6 G200.... Under left side of dash, above brake pedal .. 210-2 SERVICE INTERVAL INDICATOR Coolant Temperature Switch/Sender Front of engine, top of thermostat housing ... 202-2 Ignition Control Module On bulkhead, above brake vacuum booster ...

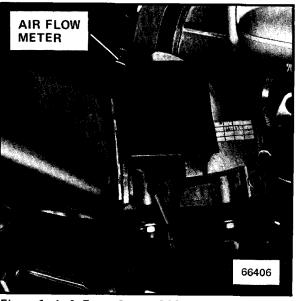


Figure 1 - Left Front Corner Of Engine Compartment

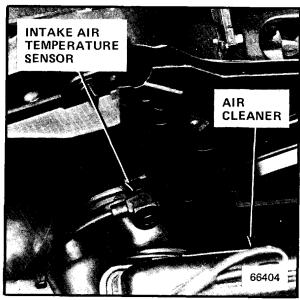


Figure 2 - Left Front Corner Of Engine Compartment

203-2

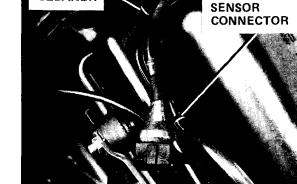
(continued) Injection Control Module Right side of dash, above glove box...... 202-1 Power Distribution Box At top rear of left front wheel well..... 201-1 C101 (19 pins) On power distribution box 201-1 C103 (29 pins) Upper left corner of driver's footwell 211 - 3C104 (3 pins)..... Right side of dash, above glove box...... 212-6G200..... Under left side of dash, above brake pedal ... 210-2 **BRAKE WARNING SYSTEM** Brake Fluid Level Switch Left of engine, on brake fluid reservoir 208-1 Ignition Switch Upper part of steering column Park Brake Switch At base of parking brake Power Distribution Box At top rear of left front wheel well..... 201-1 Seatbelt Warning Timer..... Above brake pedal..... 210-2 Under left side of dash, on steering column C200 (9 pins) 210 - 1G104..... On inner fender, behind left headlights..... 211-1 G200..... Under left side of dash, above brake pedal ... 210-2 IGNITION KEY WARNING/SEATBELT WARNING Dash Warning Display Top center of dash Power Distribution Box At top rear of left front wheel well 201-1 Seatbelt Switch In driver's seatbelt buckle Seatbelt Warning Timer..... Above brake pedal..... 210-2 Warning Buzzer Upper part of steering column C103 (29 pins) Upper left corner of driver's footwell 211-3 210-1 G200...... Under left side of dash, above brake pedal.... 210 - 2

VACUUM ADVANCE SOLENOID VALVE 66402

Figure 1 - Above Brake Vacuum Booster

BAROMETRIC

PRESSURE



AIR

CLEANER

Figure 2 - Left Front Corner Of **Engine Compartment** (Manual Transmission Shown)

HEADLIGHTS/FOG LIGHTS

Combination Switch	Upper left side of steering column	
Fog Light Switch		
	At top rear of left front wheel well	201-1
	Upper left corner of driver's footwell	
· · · · · · · · · · · · · · · · · · ·	Behind left headlights	
	Behind right headlights	

(continued)		
	Under left side of dash, on steering column On inner fender, behind left headlights Under left side of dash, above brake pedal	211-1
LIGHTS: TURN/HAZAR	D WARNING	
Combination Switch Flasher Hazard Switch Power Distribution Box C103 (29 pins) C200 (9 pins) C202 (13 pins) G104 G200 G201 (Steering Column Ground) G302	Upper left side of steering column Upper part of steering column In center console, above radio At top rear of left front wheel well Upper left corner of driver's footwell Under left side of dash, on steering column Under left side of dash, on steering column On inner fender, behind left headlights Under left side of dash, above brake pedal Upper left side of steering column Under left side of rear seat	212-5 201-1 211-3 210-1 210-1 211-1 210-2 209-2
LIGHTS: FRONT PARKAMARKER/LICENSE/TF	/FRONT SIDE MARKER/TAIL/REA	\R
Power Distribution Box	At top rear of left front wheel well	201-1 211-3 211-1 209-2
BACK UP LIGHTS		
Automatic Trans. Range Switch Backup Light Switch Power Distribution Box C301 (2 pins)	At base of shift lever On transmission At top rear of left front wheel well At base of shift lever Under left side of rear seat	
STOPLIGHTS/HORN		
Brake Switch	Above brake pedal	212-3

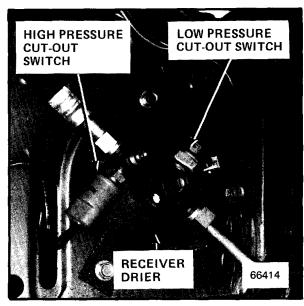


Figure 1 - Behind Right Headlights

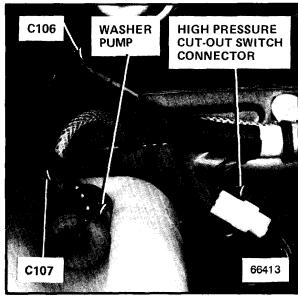


Figure 2 - Right Front Corner Of Engine Compartment

(continued)

Power Distribution Box	At top rear of left front wheel well	201-1
C202 (13 pins)	Under left side of dash, on steering column	210-1
G104	On inner fender, behind left headlights	211-1
G200	Under left side of dash, above brake pedal	210-2
G201 (Steering Column Ground)	Upper left side of steering column	
G302	Under left side of rear seat	209-2

INTERIOR LIGHTS

Driver Exterior Door Handle		
Switch	In rear of left door	212-1
Interior Light Timer Control	Below left front speaker	
Power Distribution Box	At top rear of left front wheel well	201-1
C303 (3 pins)	At base of right "B" pillar	
C304 (3 pins)	At base of left "B" pillar	
C400 (6 pins)	Behind and above left front speaker	
C503 (3 pins)	In rear of door	212-2
C510 (1 pin)	Behind and above left front speaker	
G200	Under left side of dash, above brake pedal	210-2
G302	Under left side of rear seat	209-2

CIGAR LIGHTER/DIGITAL CLOCK/GLOVE BOX LIGHT/ **AUTOCHARGING FLASHLIGHT**

Auto-Charging Flashlight	In glove box	
Glove Box Light	In right underdash cover, in glove box	
Power Distribution Box	At top rear of left front wheel well	201-1
C103 (29 pins)	Upper left corner of driver's footwell	211-3
C204 (9 pins)	Under left side of dash	212-3
G200	Under left side of dash, above brake pedal	210-2

REAR DEFOGGER

Dash Warning Display	Top center of dash	
Power Distribution Box	At top rear of left front wheel well	201-1
C103 (29 pins)	Upper left corner of driver's footwell	211-3
G200	Under left side of dash, above brake pedal	210-2
G302	Under left side of rear seat	209-2

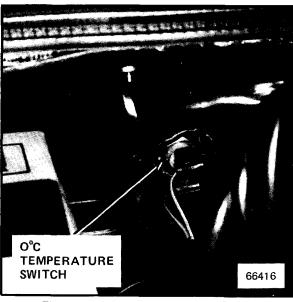


Figure 1 - Bulkhead Behind Distributor

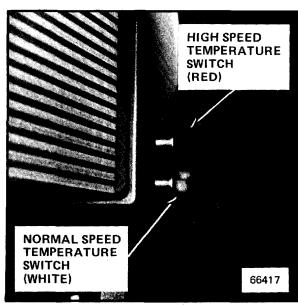


Figure 2 - Bottom Left Rear Of Radiator

RADIO/POWER ANTENNA

Power Distribution Box	At top rear of left front wheel well	201-1
C250 (7 pins)	Behind right side of center console	208-2
C302 (25 pins) Accy Connector	Upper left corner of driver's footwell	211-3
G200	Under left side of dash, above brake pedal	210-2
G302	Under left side of rear seat	209-2

POWER MIRRORS

Mirror Control Switch	On driver's door, above arm rest	
Power Distribution Box	At top rear of left front wheel well	201-1
C400 (6 pins)	Behind and above left front speaker	2011
	Upper left corner of drivers footwell	211-3
C502 (4 pins)	Above and behind right rear speaker	212-2
G200	Under left side of dash, above brake pedal	210-2

DASH LIGHTS

Power Distribution Box	At top rear of left front wheel well	201-1
C103 (29 pins)	Upper left corner of driver's footwell	211-3
C204 (9 pins)	Under left side of dash, on steering column	210-1
C302 (25 pins) Accy Connector	Upper left corner of driver's footwell	211-3
G200	Under left side of dash, above brake pedal	210-2

HEATING AND AIR CONDITONING

A/C In-Line Fuse		
Fuel Shutoff Relay	Left side of evaporator housing On bracket in front of left front shock tower On receiver dryer Behind A/C face plate	201-2 206-2
Motors Hot Water Cut-Off Switch	Behind A/C face plate	208-2
Idle Speed Control Unit Ignition Control Module	Right side of dash, above glove box On bulkhead, above brake vacuum booster	202-1 203-2

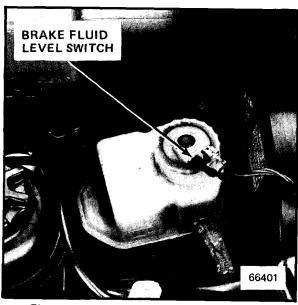


Figure 1 - LH Rear Of Engine Compartment



Figure 2 - Behind Right Side Of Center Console

(continued) Low Pressure Cut-Out Power Distribution Box At top rear of left front wheel well 201-1 Water Shut-Off Solenoid Left side of evaporator housing C103 (29 pins) Upper left corner of driver's footwell 211-3 C251 (4 pins)..... Behind A/C face plate C255 Left side of evaporator housing 210-2 **AUXILIARY FAN** Auxiliary Fan In front of condensor Compressor Enable Switch ... Behind A/C face plate Evaporator Temperature Switch Left side of evaporator housing High Speed Temperature Normal Speed Blower Resistor On auxiliary fan shroud Normal Speed Temperature G104...... On inner fender, behind left headlights...... 212-3 G200...... Under left side of dash, above brake pedal.... 210-2 CENTRAL LOCKING SYSTEM ... Central Locking Control Unit... Below and behind left front speaker Central Locking Micro Switch...... Rear of right door, at lock cylinder 212-4 Gas Filler Door Lock Motor.... Behind right rear inner wheel well Ignition Switch Upper part of steering column

Trunk Lid Lock Motor On trunk lock center support

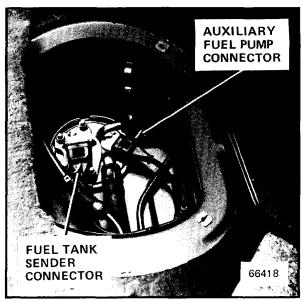


Figure 1 - Under Right Side Of Rear Seat

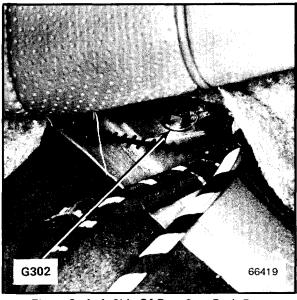


Figure 2 - Left Side Of Rear Seat Back Rest

(continued)

C200 (9 pins)	Under left side of dash, on steering column	210-1
C302 (25 pins) Accy Connector	Upper left corner of driver's footwell	211-3
C400 (6 pins)	Behind and above left front speaker	
C401 (13 pins)	Above and behind right front speaker	
C402 (13 pins)	Above and behind left front speaker	
G200	Under left side of dash, above brake pedal	210-2

POWER WINDOWS

Ignition Switch	Upper part of steering column	
	At top rear of left front wheel well	201-1
Power Window Circuit		
	On center console, above radio	212-5
Power Window Motors		
C200 (9 pins)	Under left side of dash, on steering column	210-1
C302 (25 pins) Accy Connector	Upper left corner of driver's footwell	211-3
C351 (1 pin)	Behind center console	
C401 (13 pins)	Above and behind right front speaker	
C402 (13 pins)	Above and behind left front speaker	
G200	Under left side of dash, above brake pedal	210-2



Figure 1 - Under Left Side Of Dash

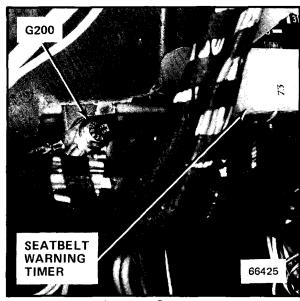


Figure 2 - Above Pedal Assembly

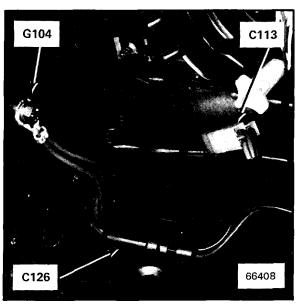


Figure 1 - Behind Left Headlights



Figure 2 - Behind Right Headlights

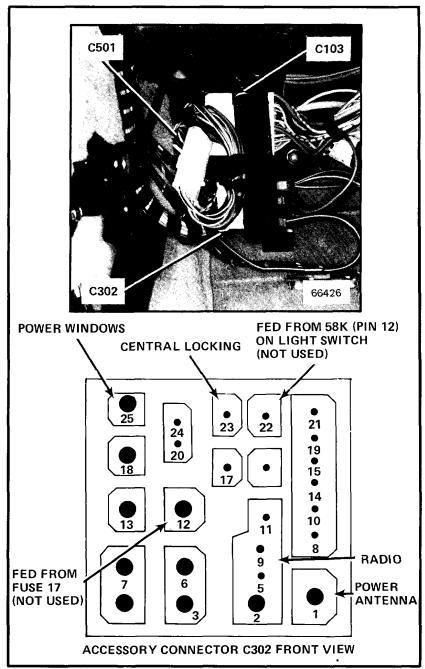


Figure 3 - Under Left Side Of Dash Ahead Of Pedal Assembly

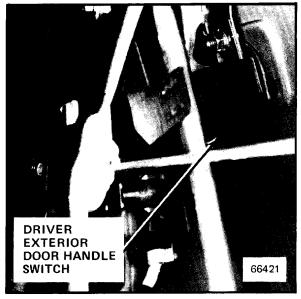


Figure 1 - Rear Of Left Door

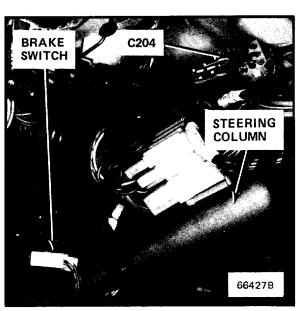


Figure 3 - Under Left Side Of Dash

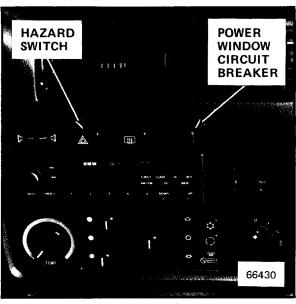


Figure 5 - Center Console



Figure 2 - Rear Of Left Door

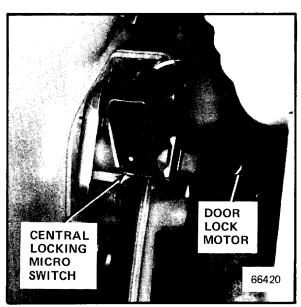


Figure 4 - Rear Of Right Door

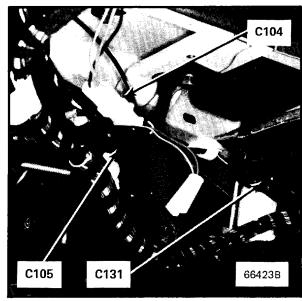


Figure 6 - Behind Right Side Of Dash