

1984 BMW 325e/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 325e/318i
Electrical
Troubleshooting
Manual

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The purpose of this manual is to show electrical schematics in a manner that makes electrical troubleshooting easier. Electrical components which work together are shown together on one schematic. The Wiper-Washer schematic, for example, shows all of the electrical components in one diagram. At the top of the page is the fuse (positive) that powers the circuit. The flow of current is shown through all wires, connectors, switches, and motors to ground (negative) at the bottom of the page.

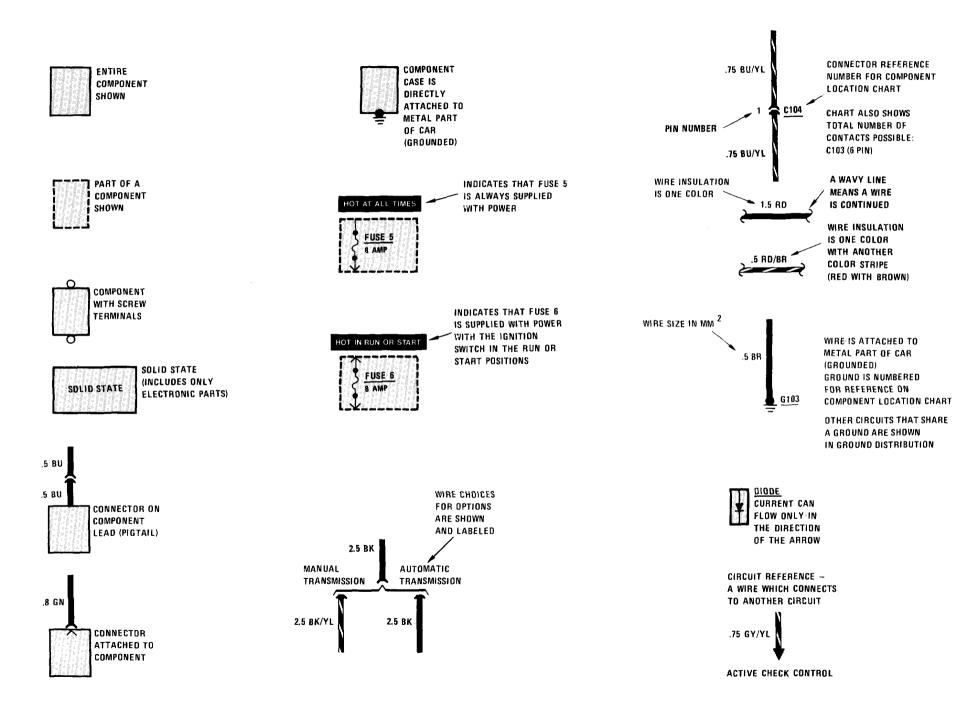
Within the schematic, all switches and sensors are shown "at rest," as though the Ignition Switch were off. For identification, component names are underlined and placed next to or above each component. Notes are included, describing how switches and other components work.

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

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

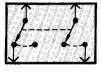
WIRE SIZE CONVERSION CHART			
METRIC (CROSSECTIONAL AREA IN MM²)	AWG (AMERICAN WIRE GAUGE)		
.5 .75 1 1.5 2 2.5 4 6 8 16 20 25 32	20 18 16 14 12 10 8 8 4 4 2		

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



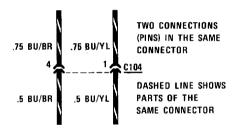


ONE POLE, TWO POSITION SWITCH



SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

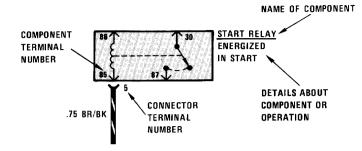


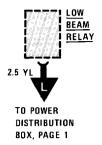
RELAY SHOWN

WITH NO

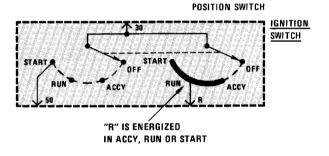
CURRENT

FLOWING





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

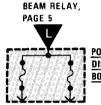


RELAY SHOWN

ACROSS COIL

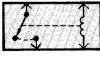
WITH RESISTOR

TWO POLE, FOUR



FROM LOW

POWER
DISTRIBUTION
BOX

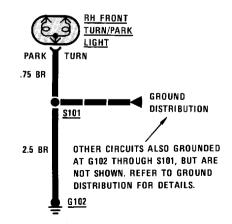


IS PULLED CLOSED

THROUGH
COIL IS
ENERGIZED, SWITCH

RESISTOR ACROSS CO

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

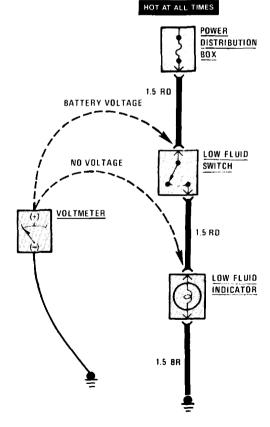
Isolating the problem (Step 3 of TROUBLESHOOTING PROCEDURES) requires the use of a voltmeter and/or ohmmeter. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit under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

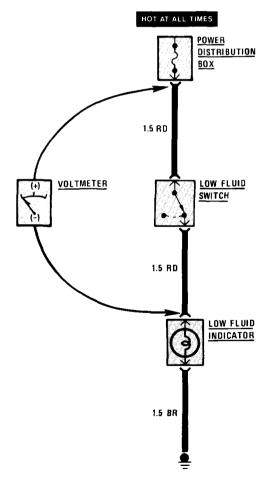


Voltage Test

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.

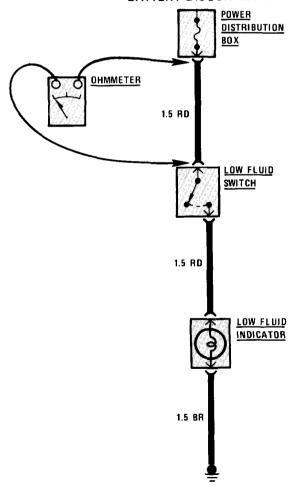


Voltage Drop Test

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

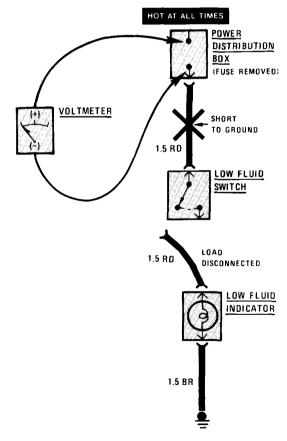


Continuity Test

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.



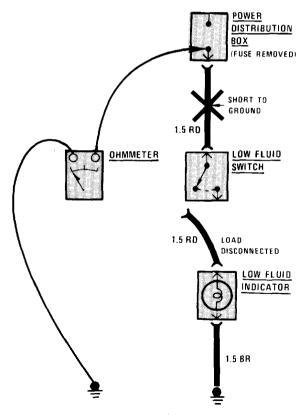
Short Test Using Voltmeter

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

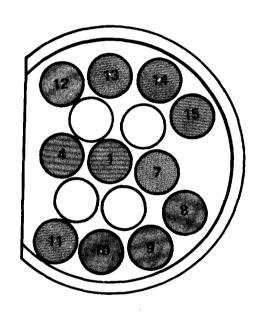
Section A

325e

Schematic Diagrams

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- Front Side Marker	130	Wiper/Washer	119
— Glove Box	136		



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
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.

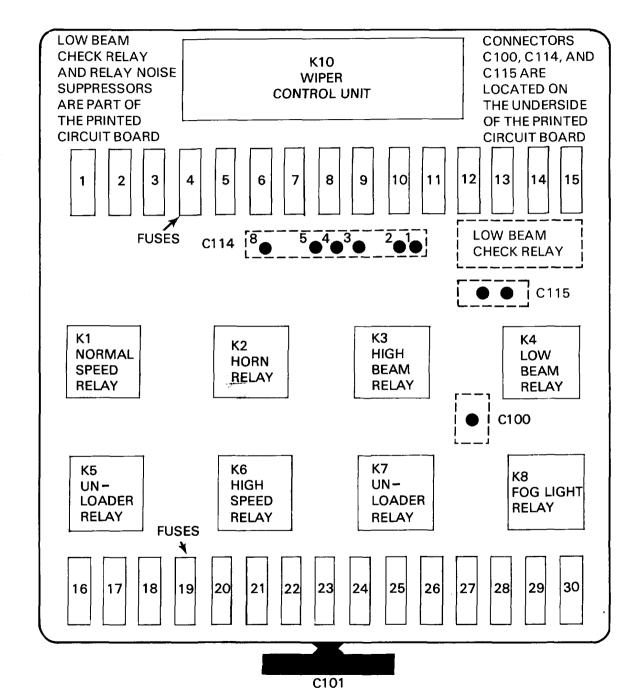


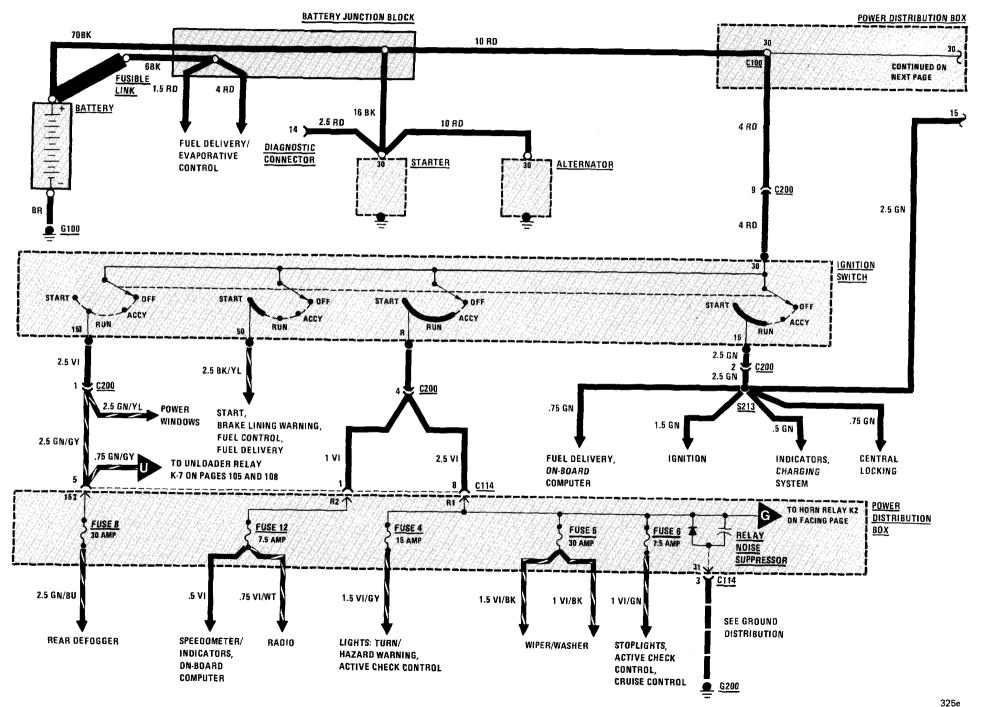
Figure 1 - Behind Left Front Shock Tower

FUSE	SIZE/	
NO.	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 (LTBU)	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)	Stoplights/Cruise Control (also fuse 10); Active Check Control (also fuses 4, 10, 21, 22, 23); Cruise Control.
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 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	15A (LT BU)	Sunroof.
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.

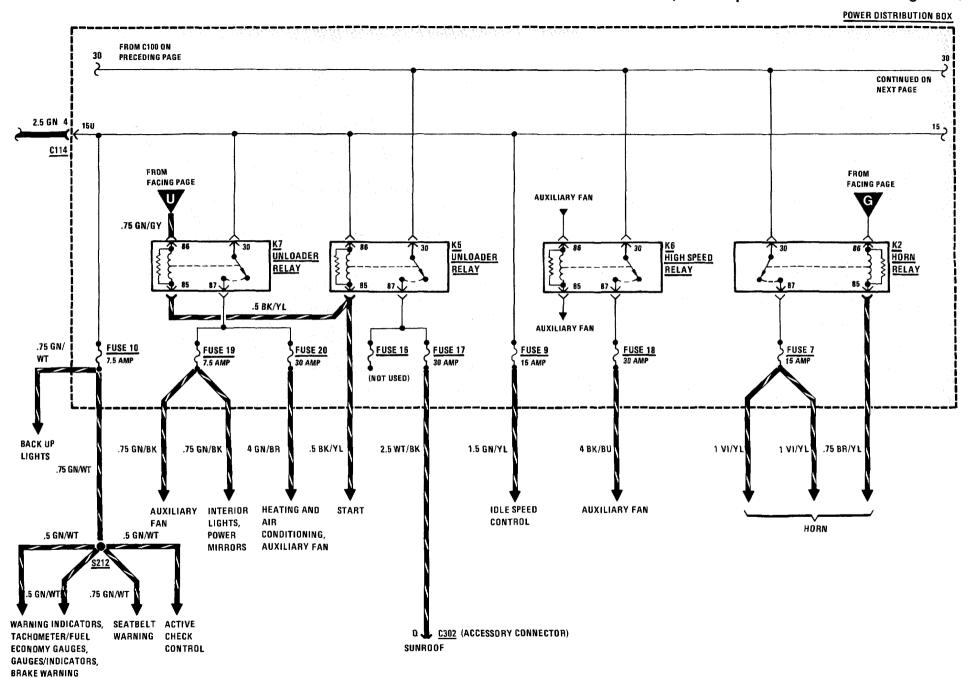
FUSE	SIZE/	
NO.	COLOR	CIRCUIT NAME
20	30A (LT GN)	Heater/Air Conditioning (also fuse 28).
21	7.5A (BR)	Auto-Charging Flashlight; Glove Box Light; Ignition Key Warning/Seatbelt Warning (also fuse 10); Interior Lights (also fuses 14, 22, 27); Radio (also fuses 12); Trunk Light; Active Check Control (also 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	7.5 (BR)	Fog Lights (also fuse 29).

104 POWER DISTRIBUTION

(For Component Locations See Page 212)



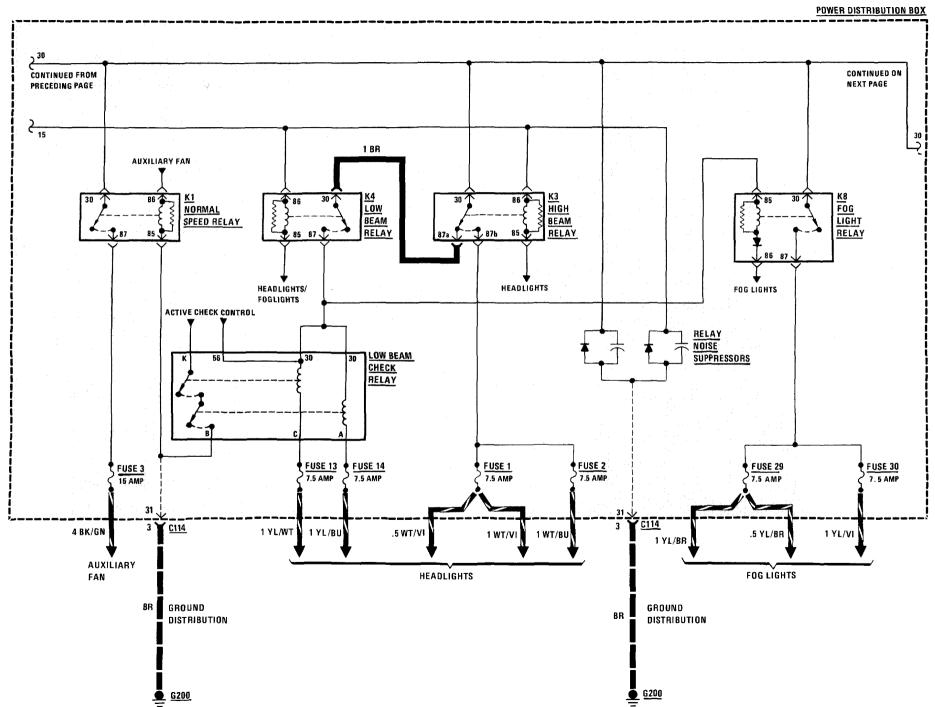
(For Component Locations See Page 212)



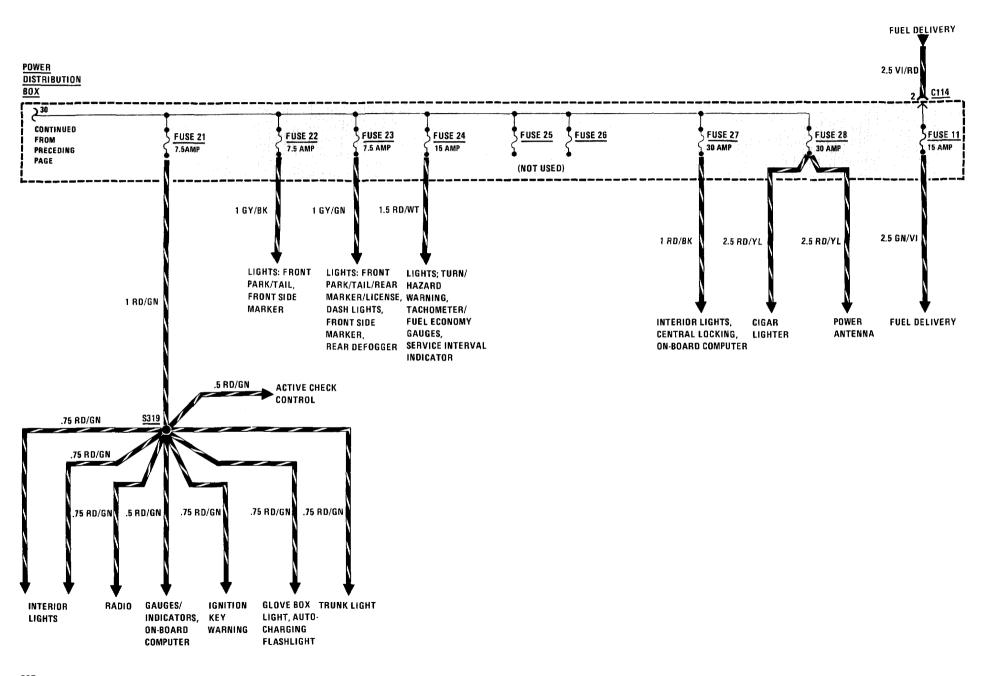
SYSTEM.

SERVICE INTERVAL INDICATOR ON-BOARD COMPUTER

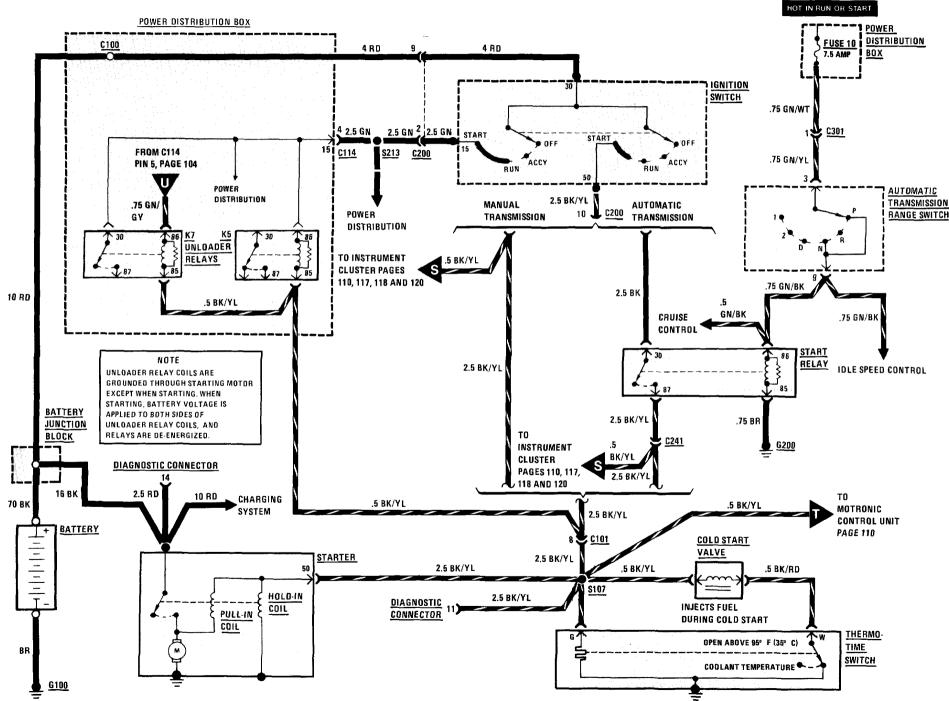
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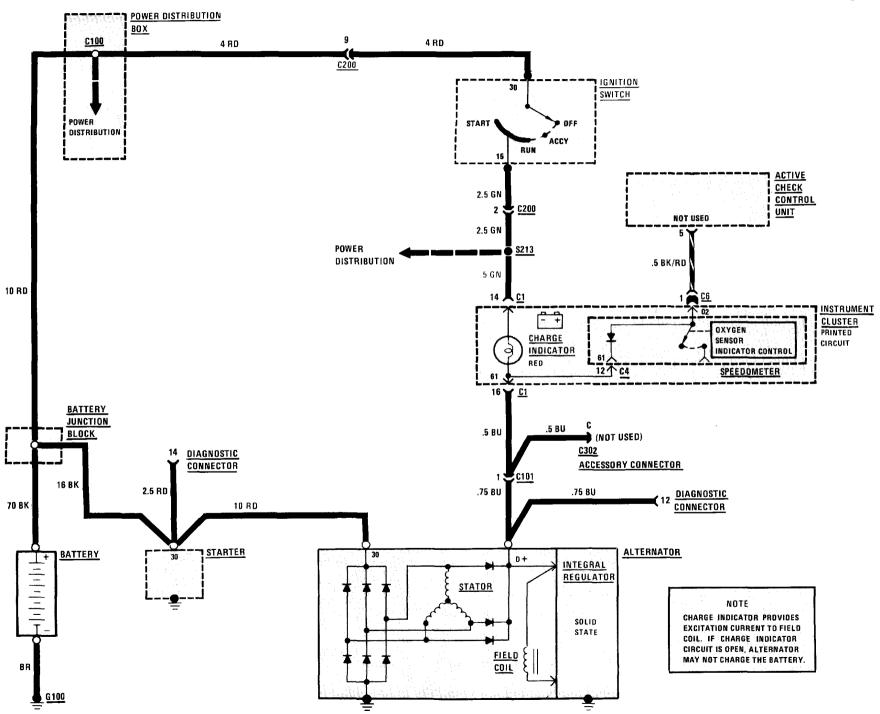
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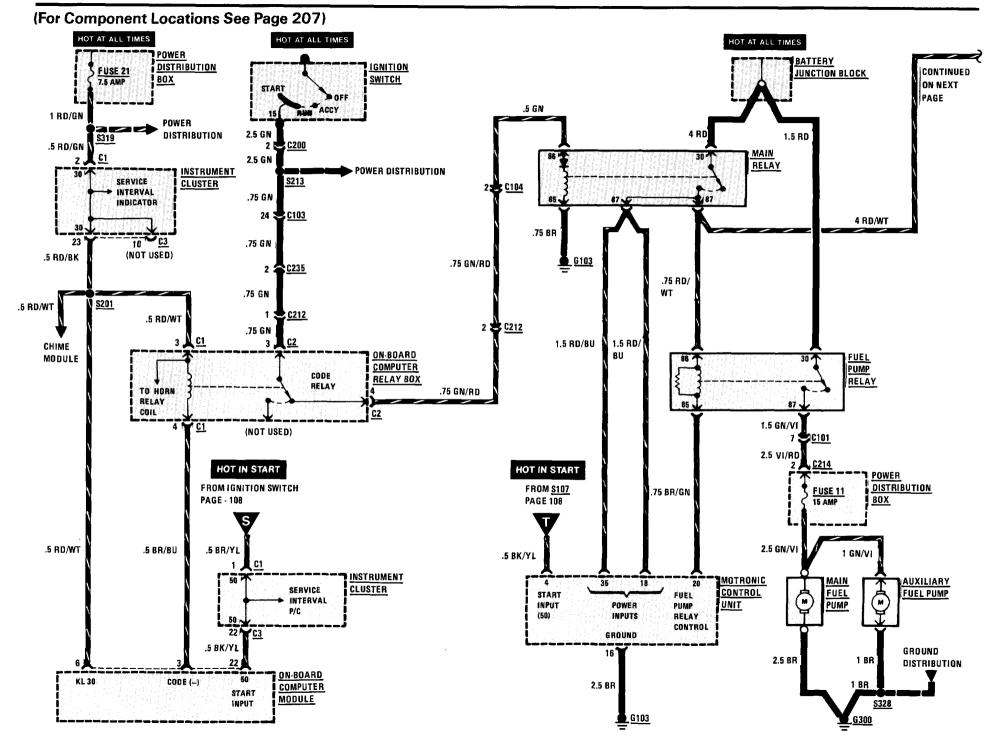


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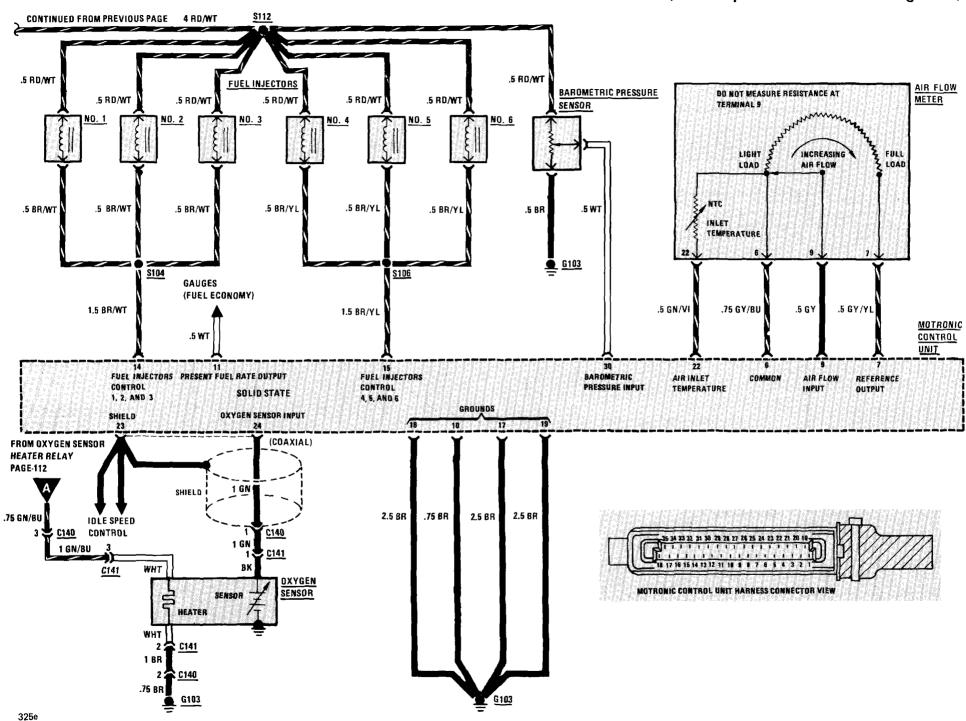


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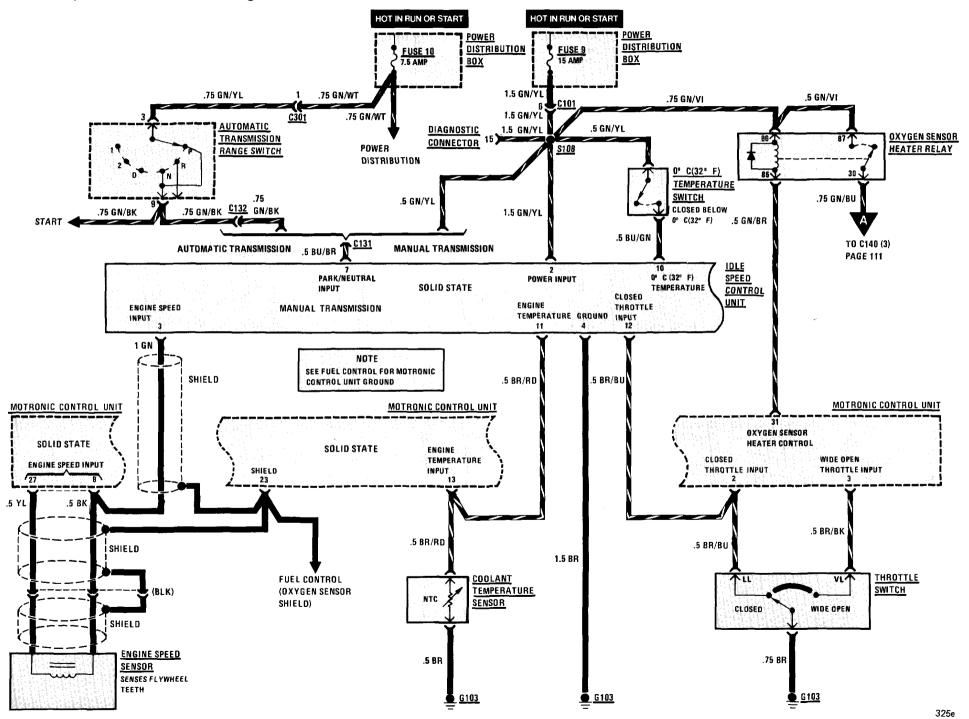




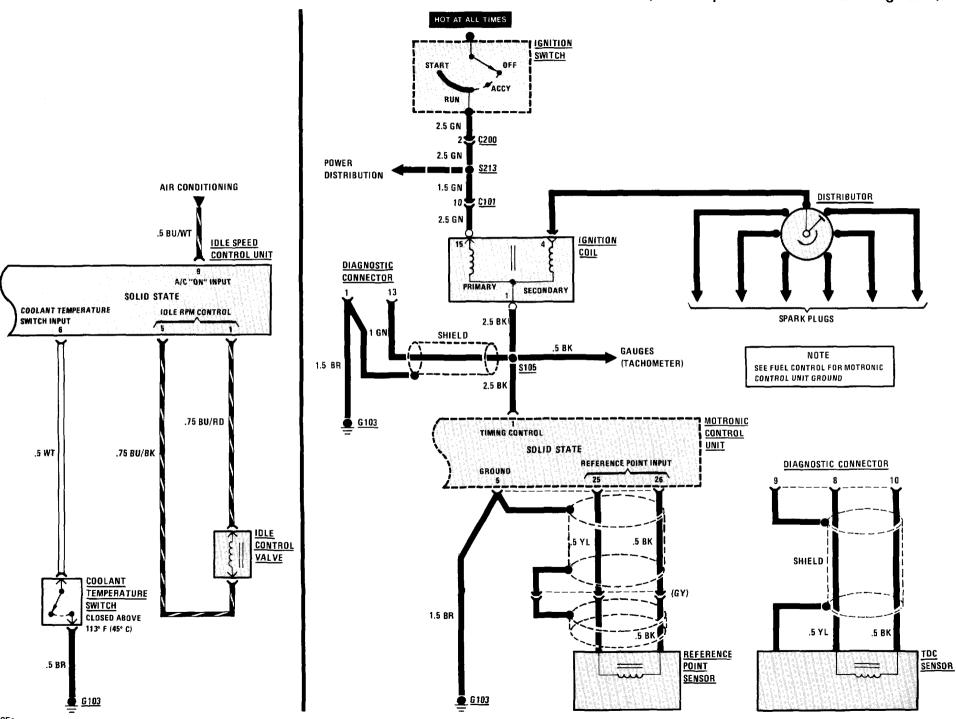
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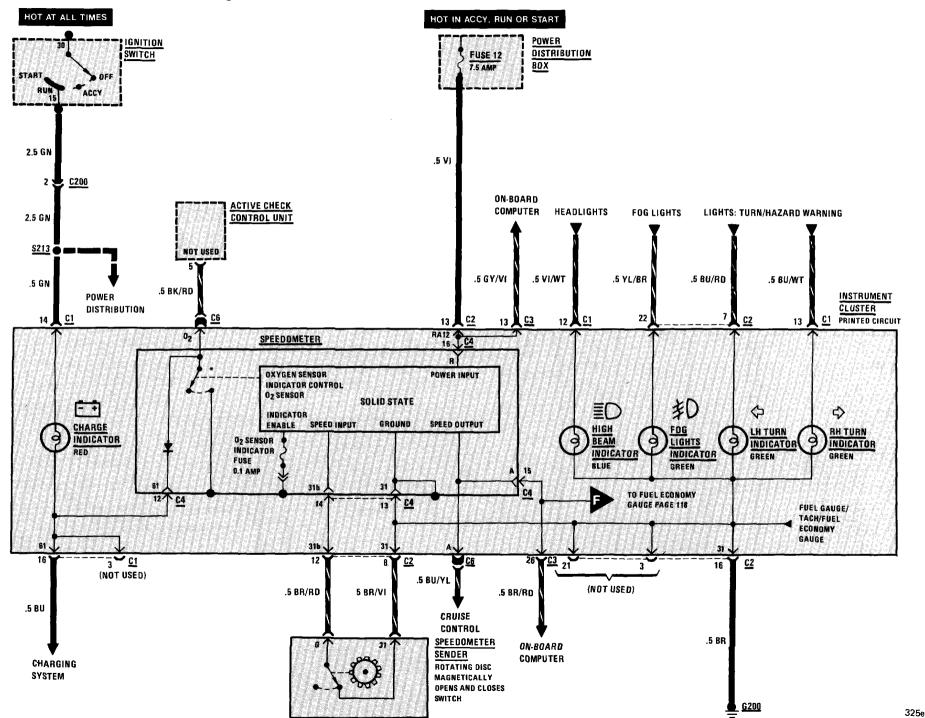
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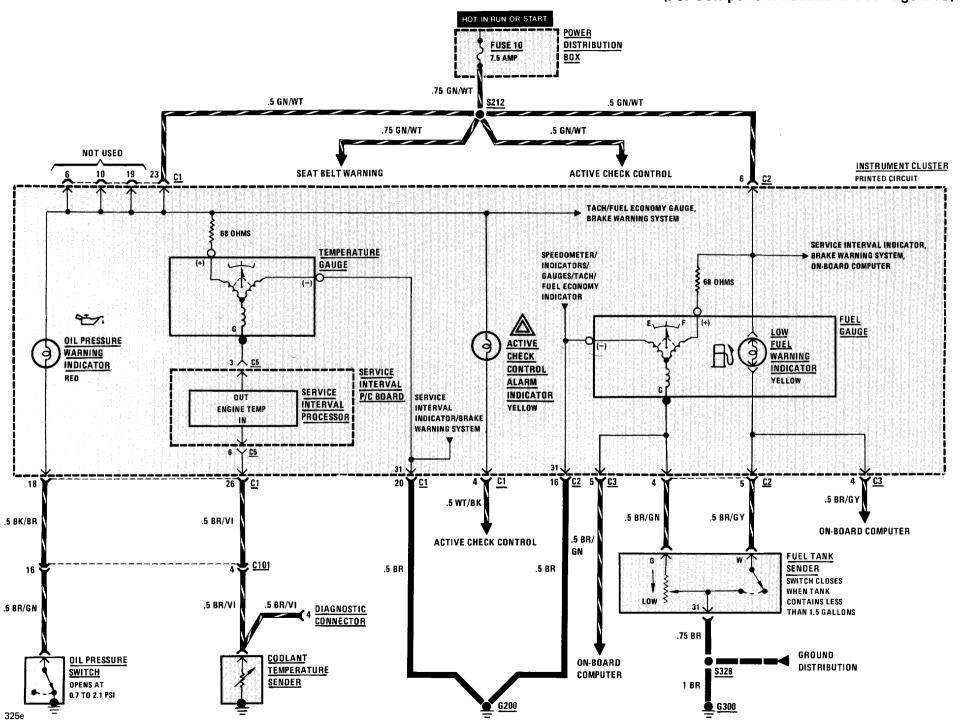
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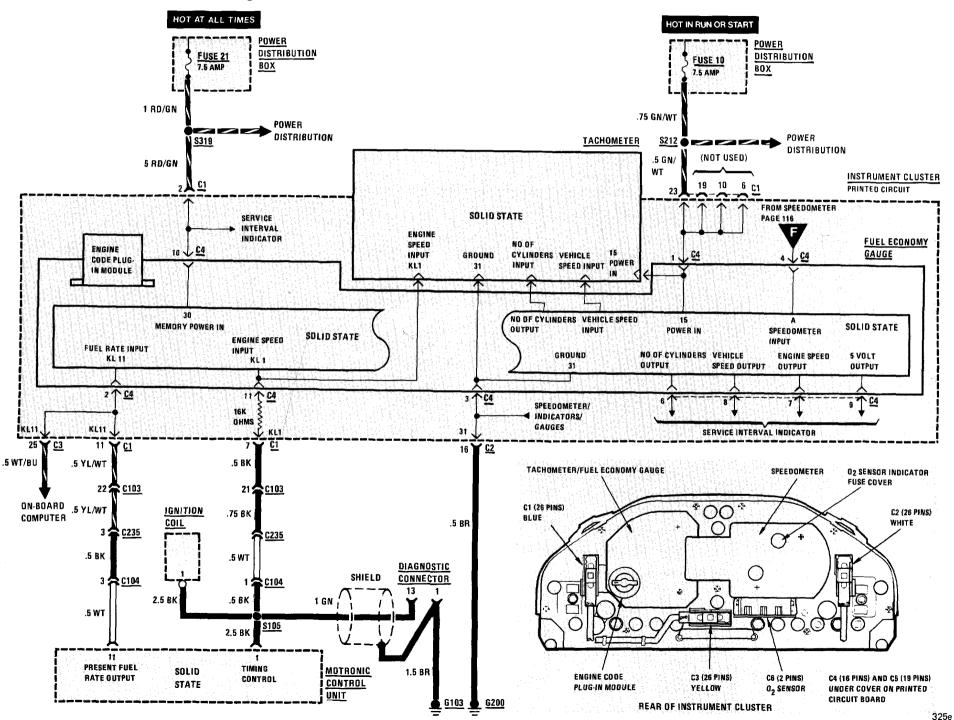
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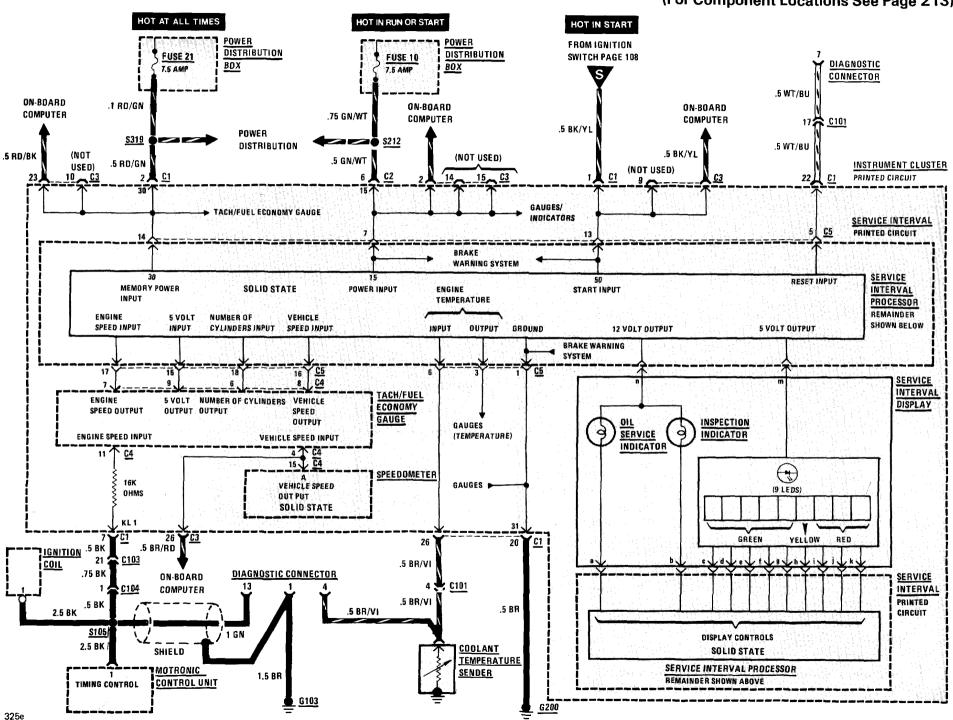
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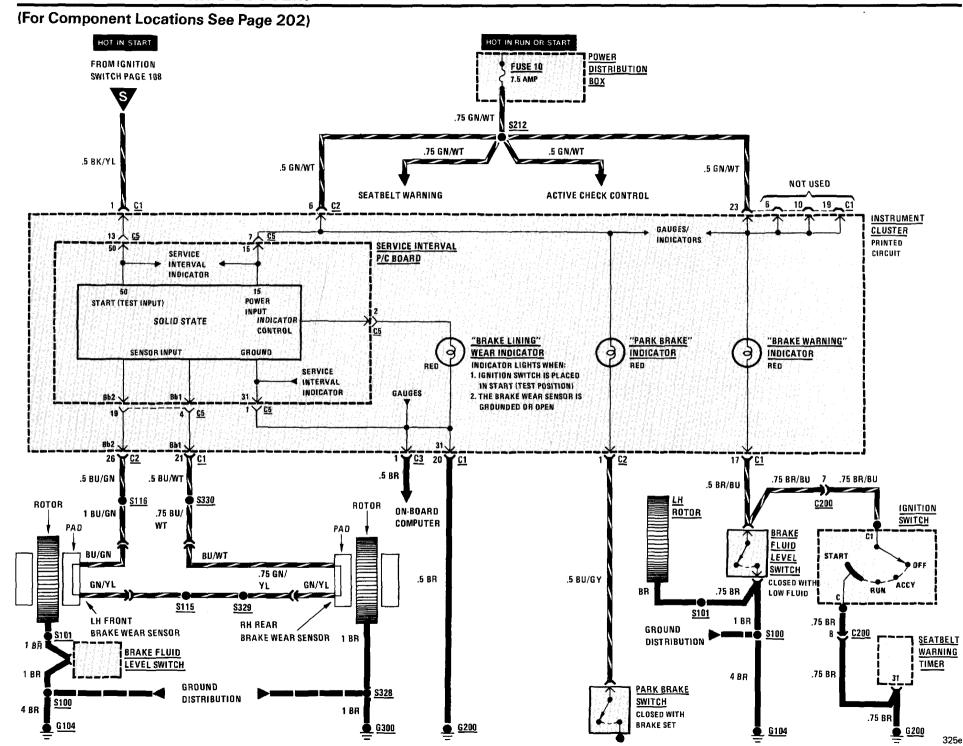


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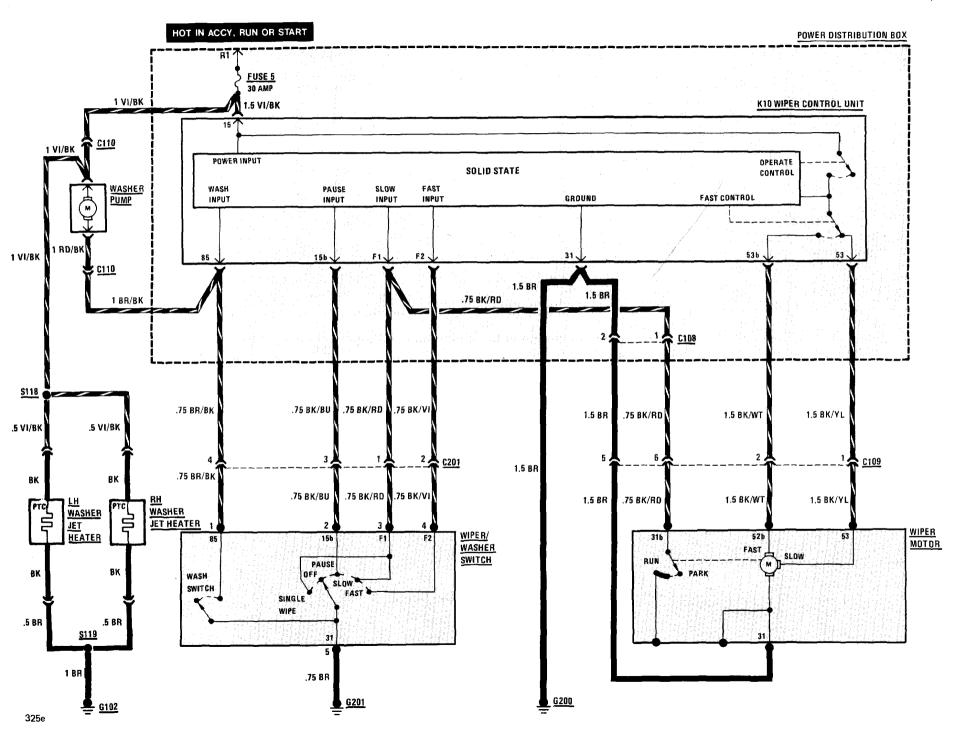


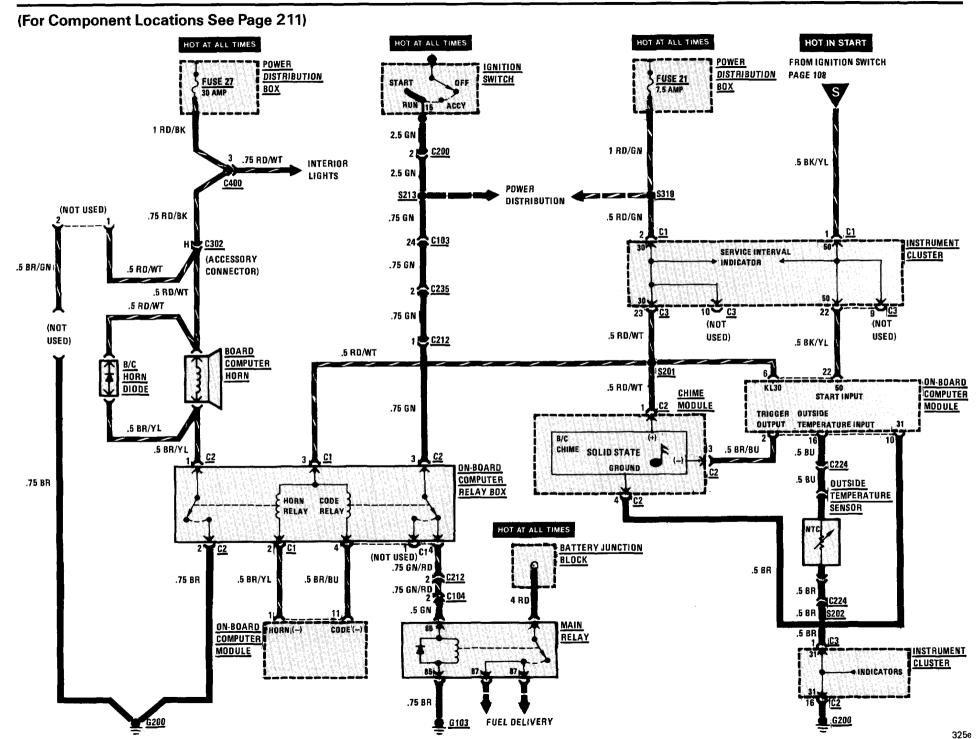
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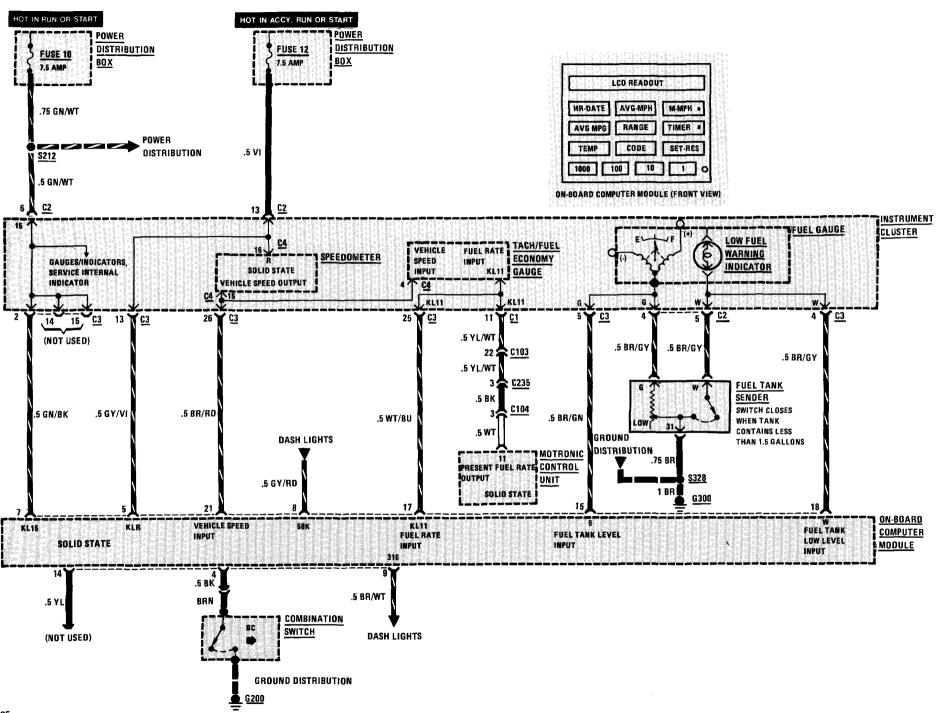


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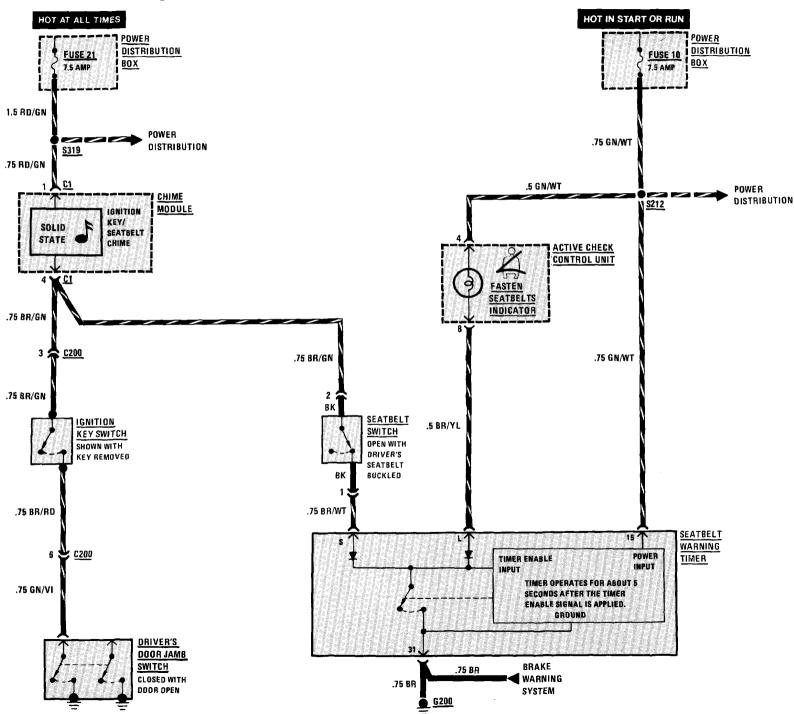




(For Component Locations See Page 211)



(For Component Locations See Page 210)



(For Component Locations See Page 201)

ACTIVE CHECK CONTROL

- 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.
- When the Ignition Switch is placed in "Run," fault monitoring begins.To monitor the low beams, rear lights, or license lights, those circuits must be on. The brake lights are monitored only while the brake pedal is depressed.
- When a fault occurs, the alarm indicator flashes, the appropriate LED 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.
- To test the unit, depress the test button. The LED fault indicators and the panel lights should go on.

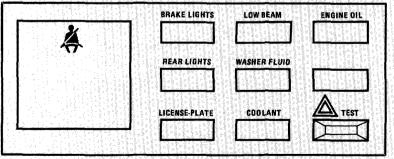
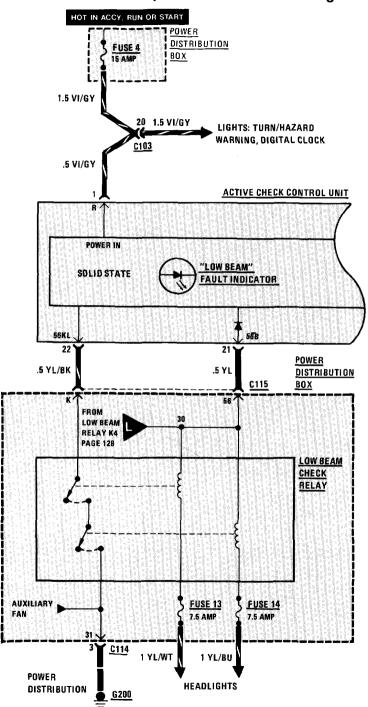
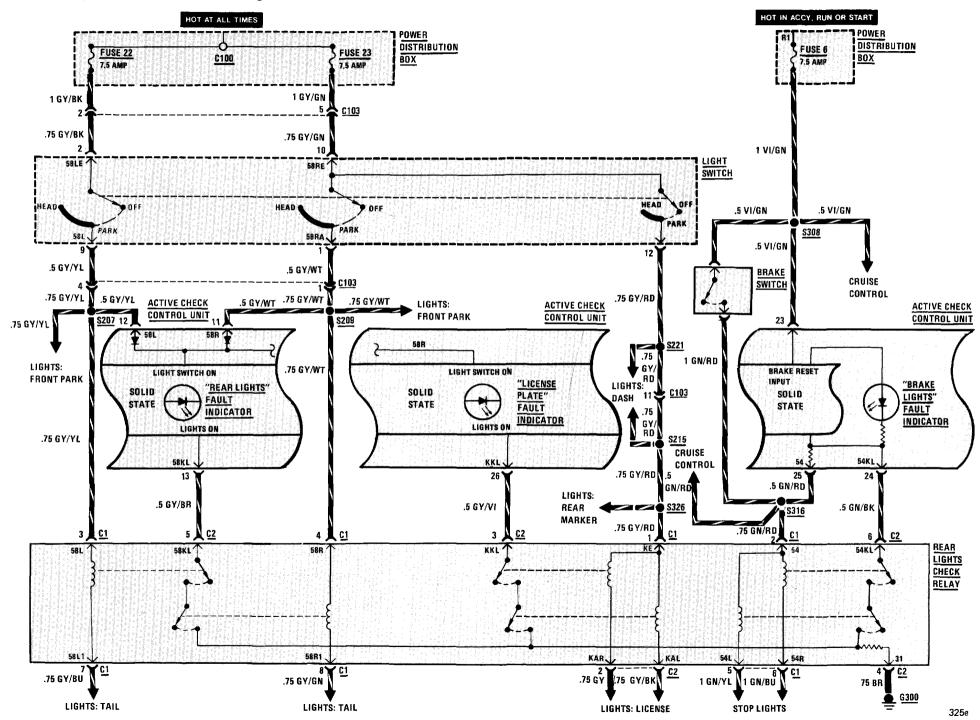


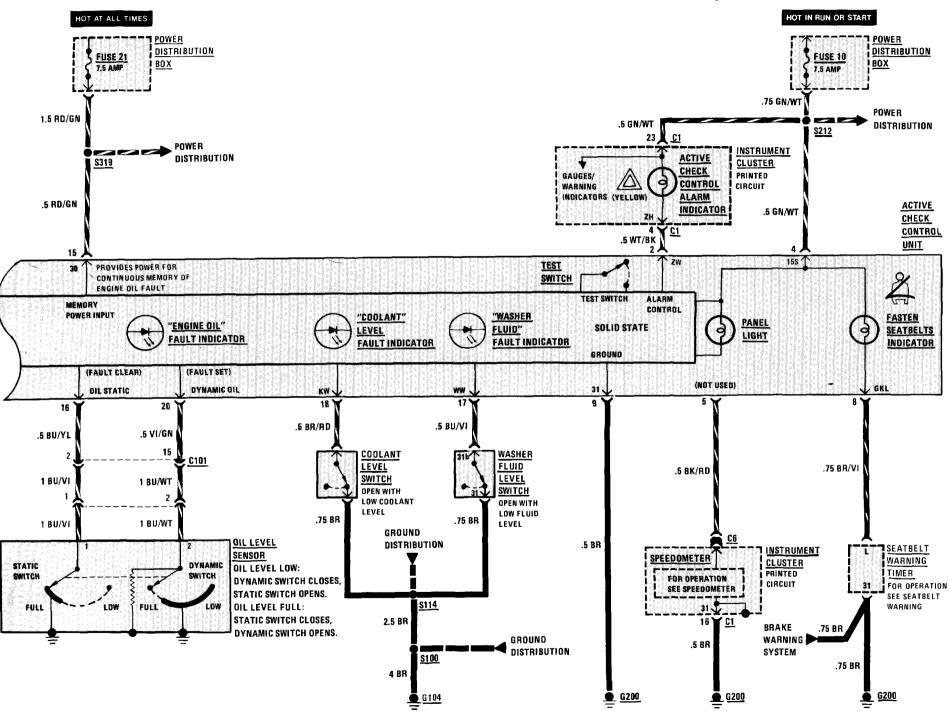
Figure 1 - Active Check Control Unit Above Rear View Mirror

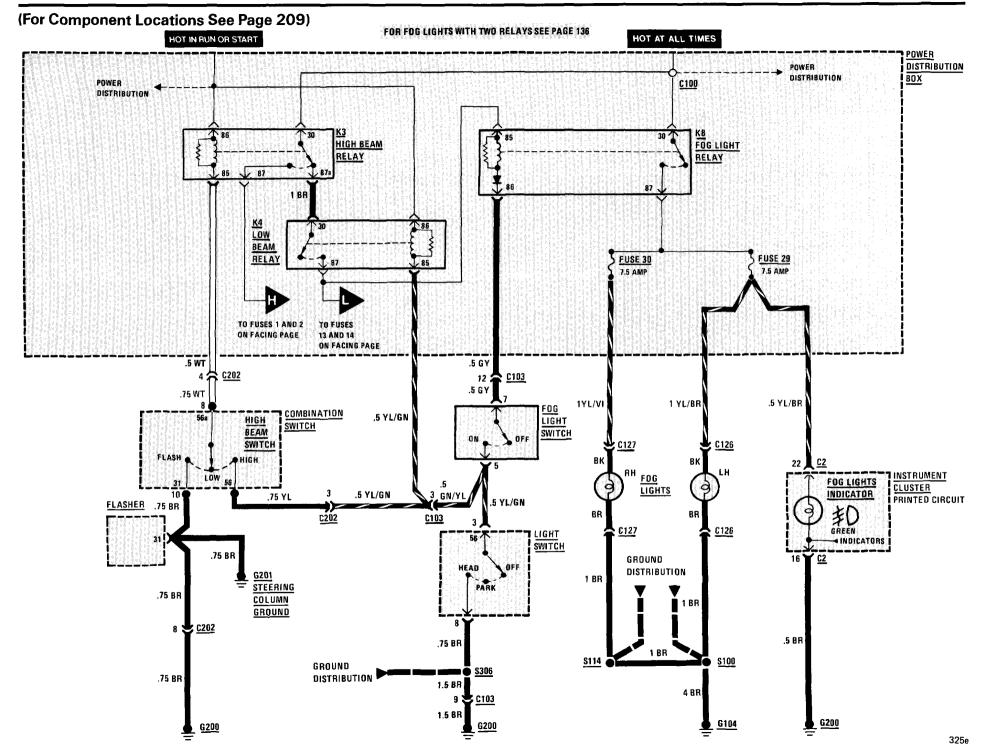


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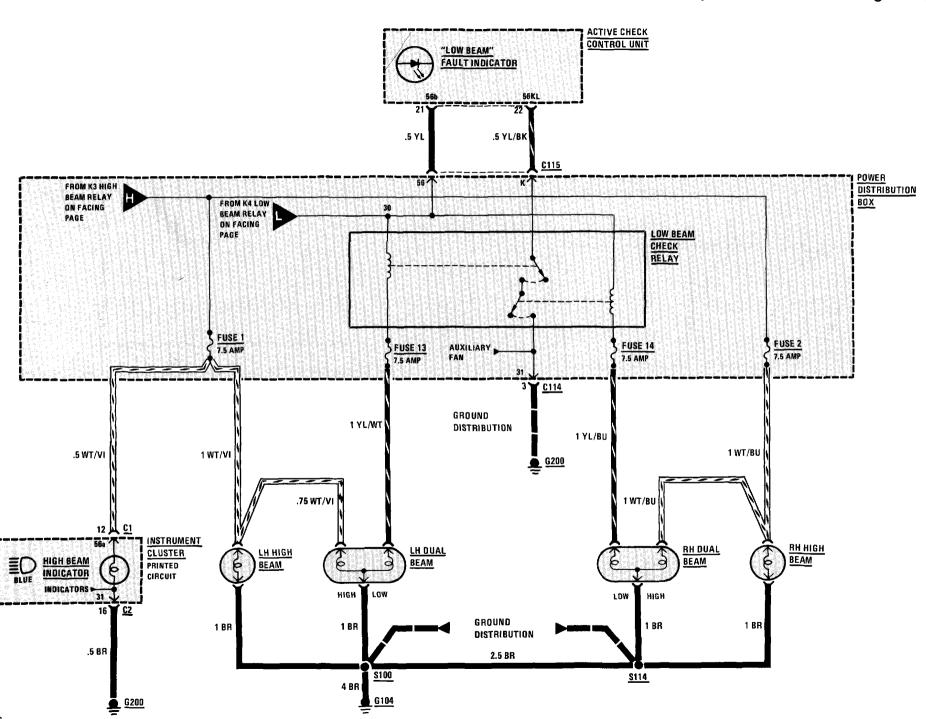


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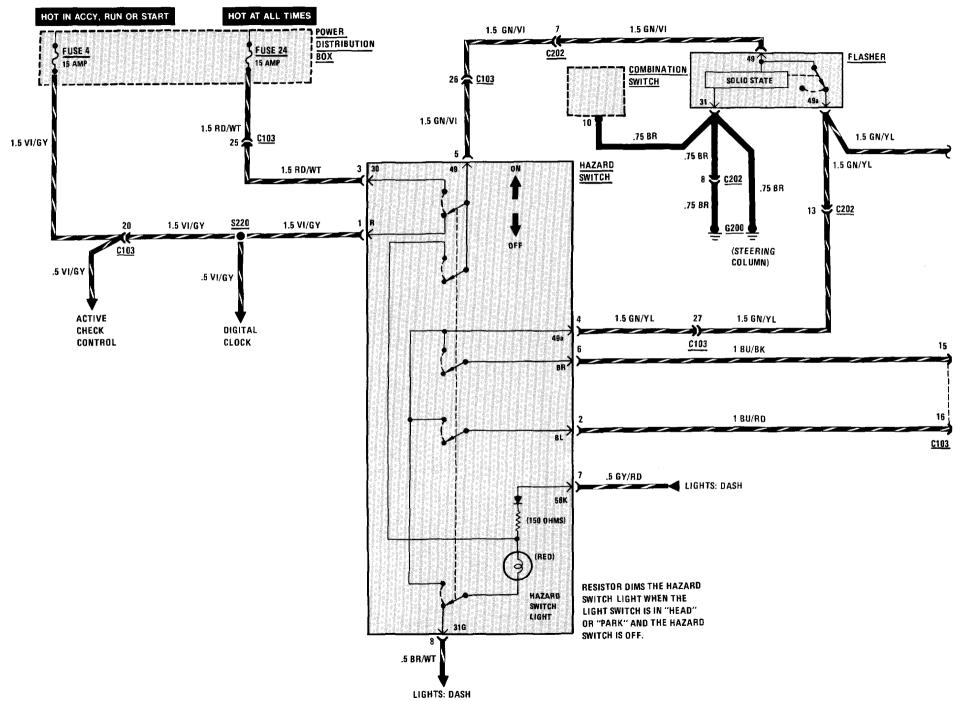




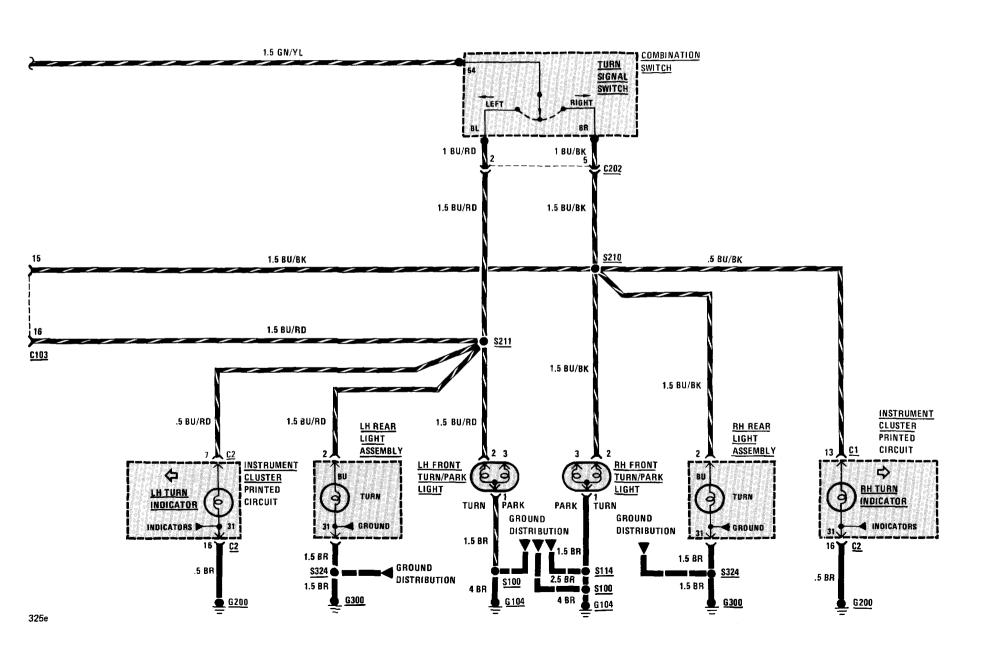
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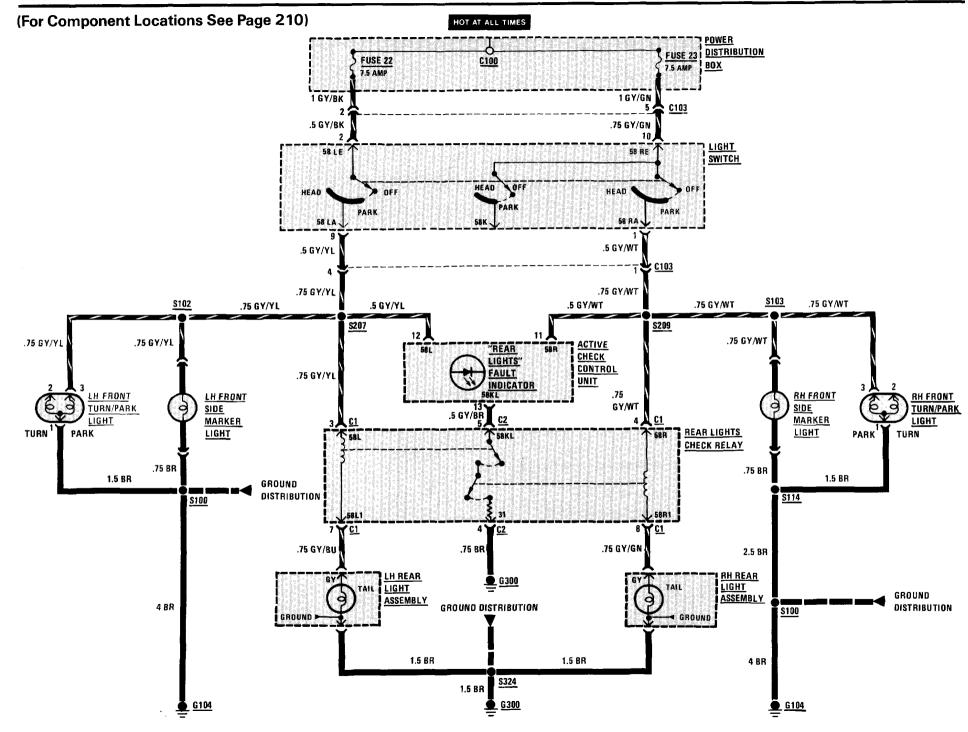


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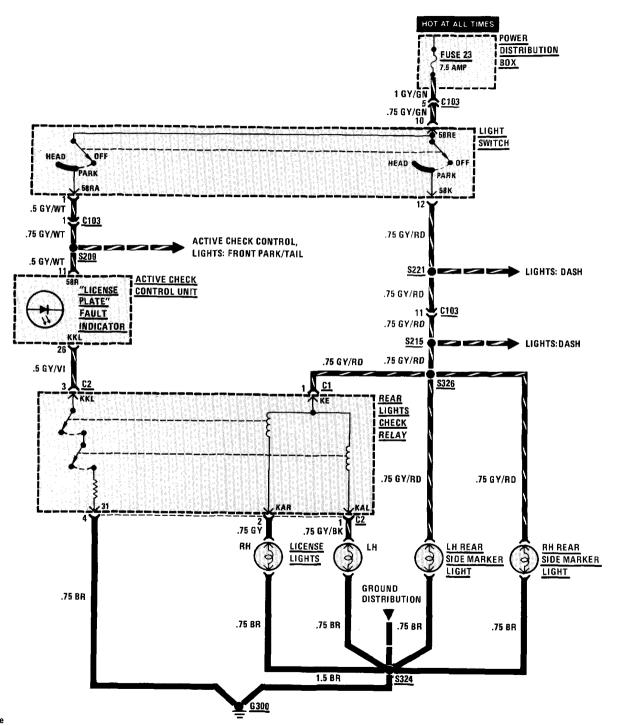


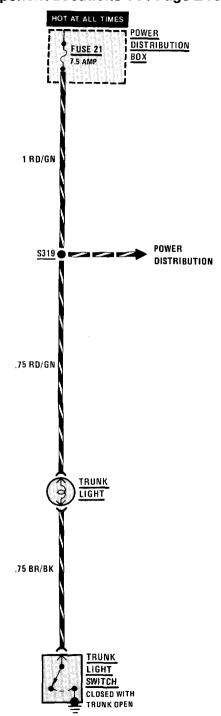
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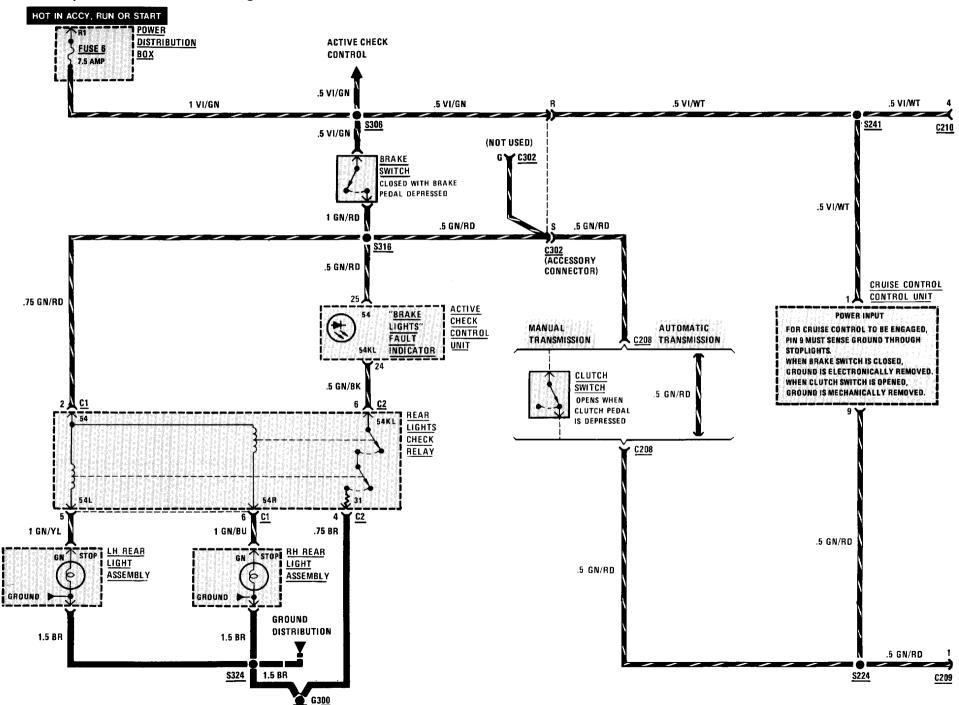


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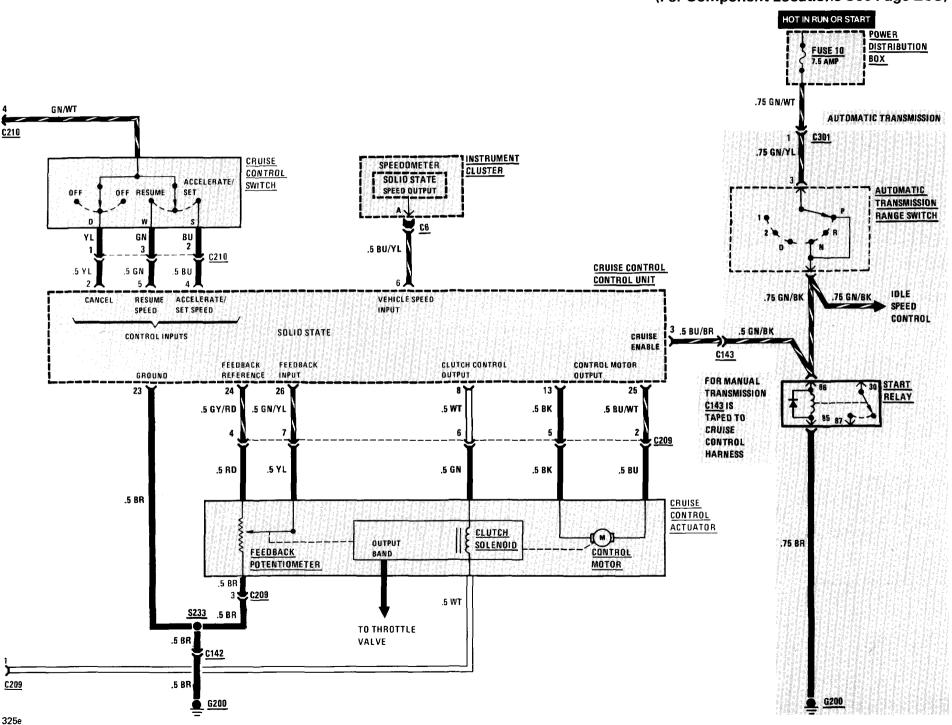




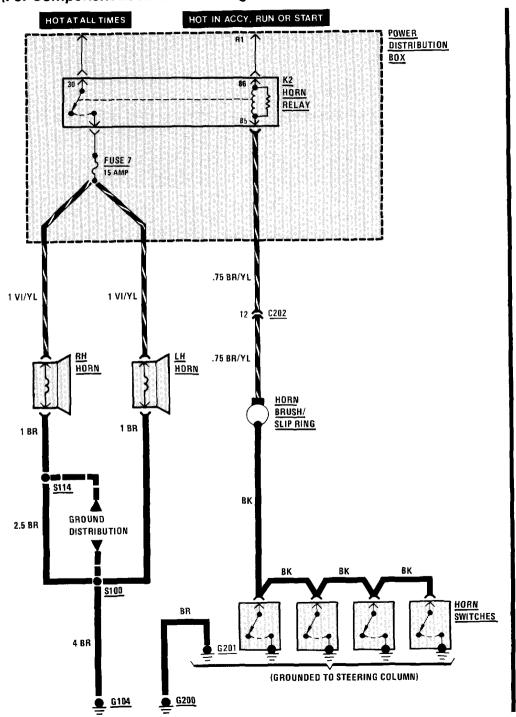
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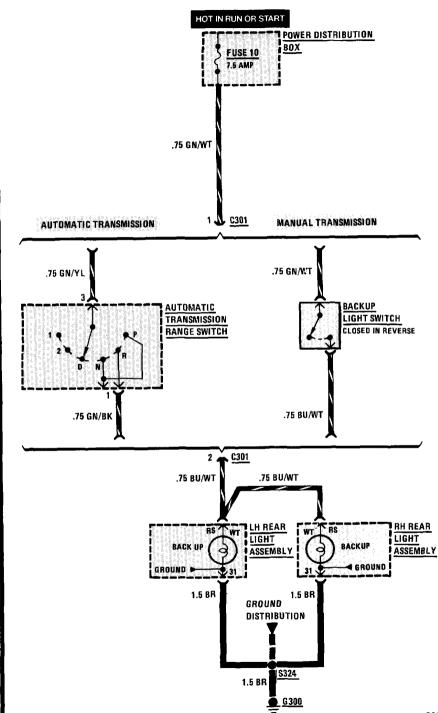


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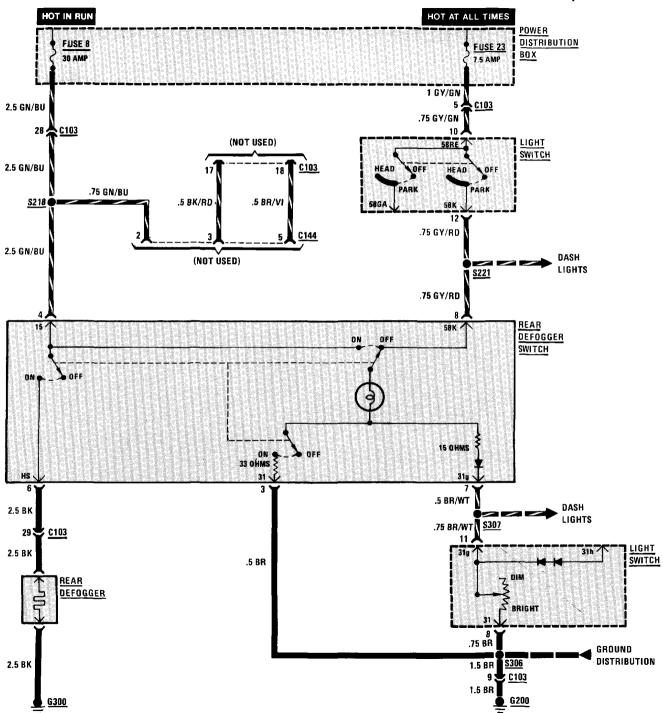


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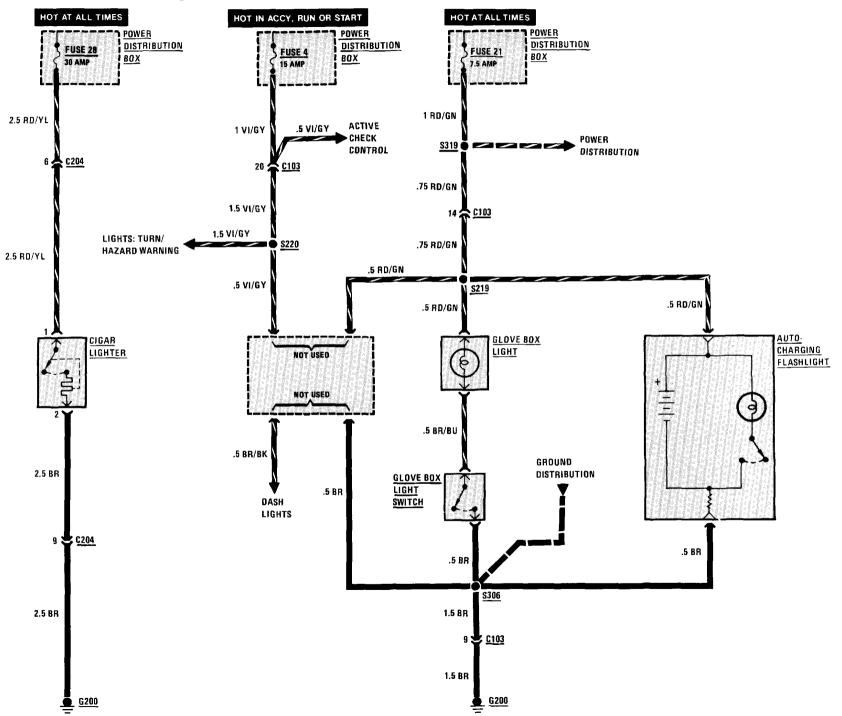


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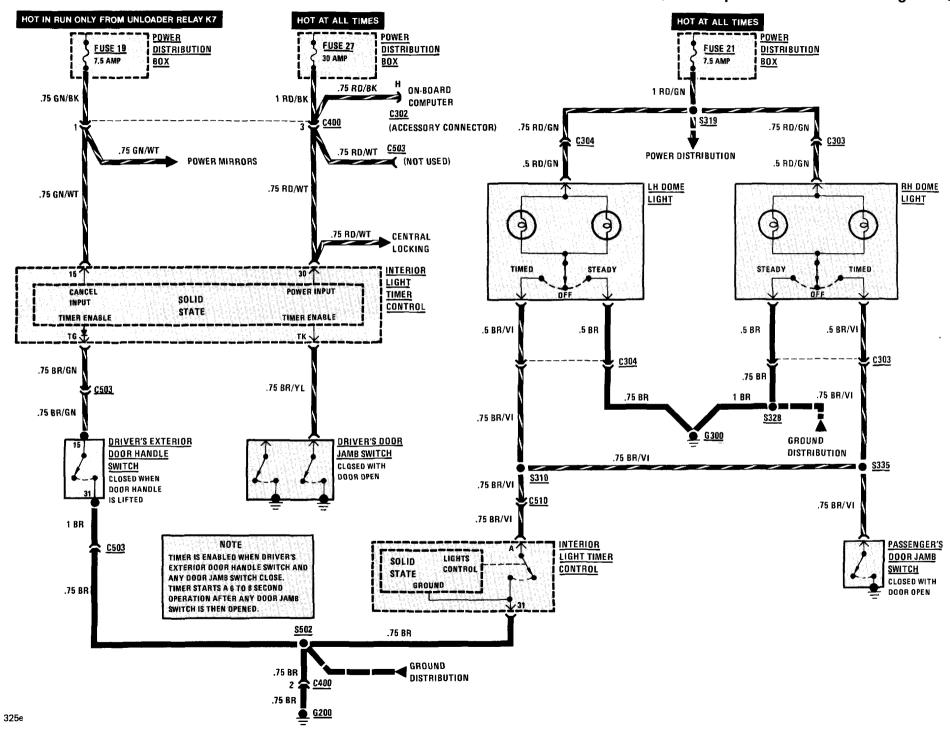


136 CIGAR LIGHTER/GLOVE BOX LIGHT/AUTO-CHARGING FLASHLIGHT

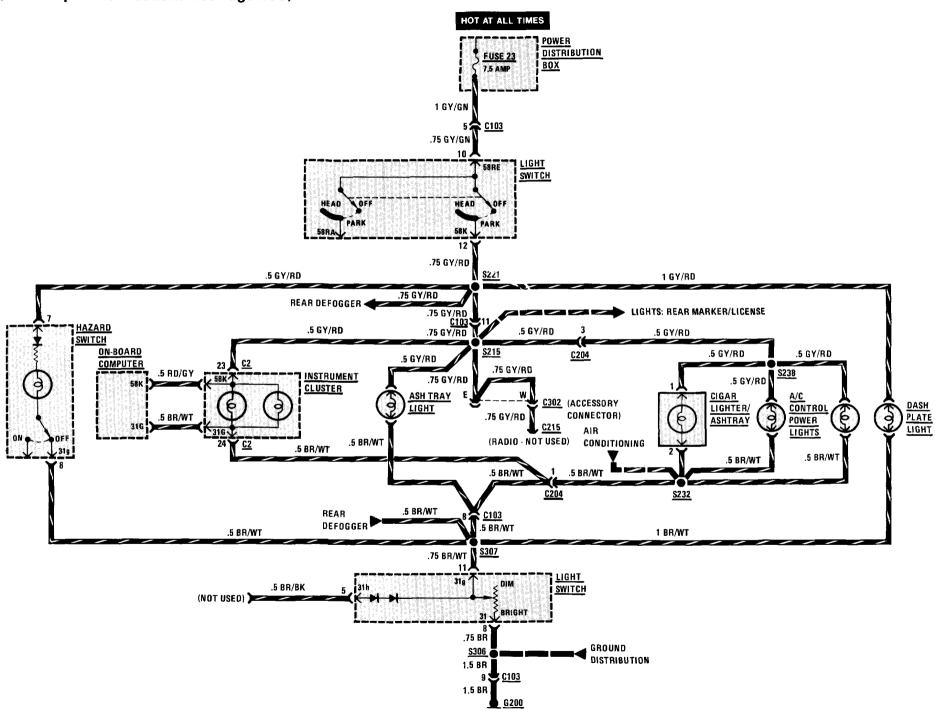
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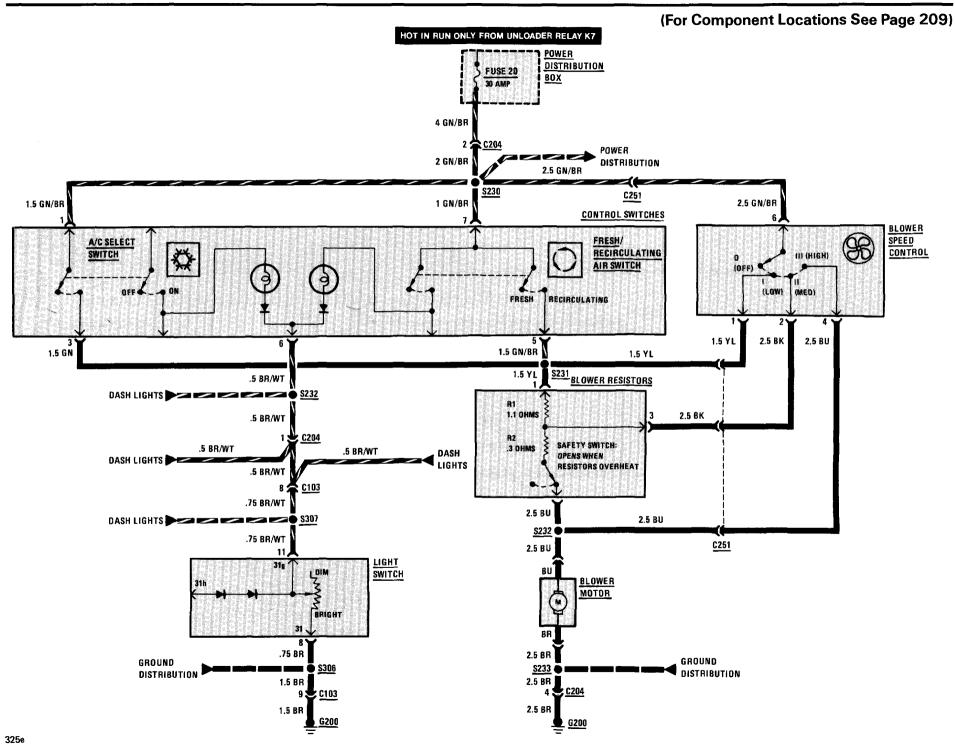


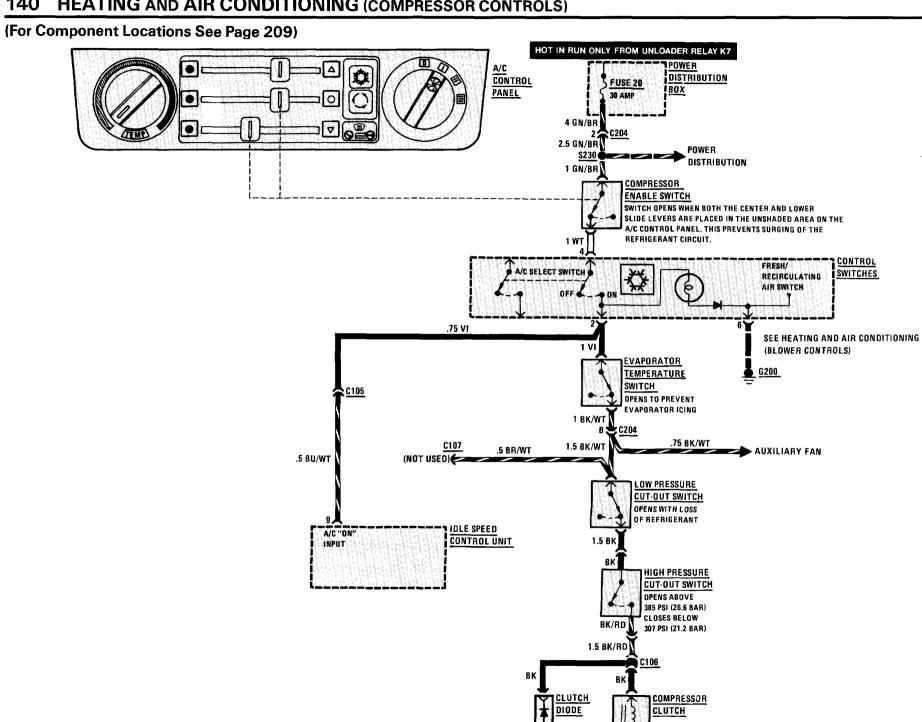
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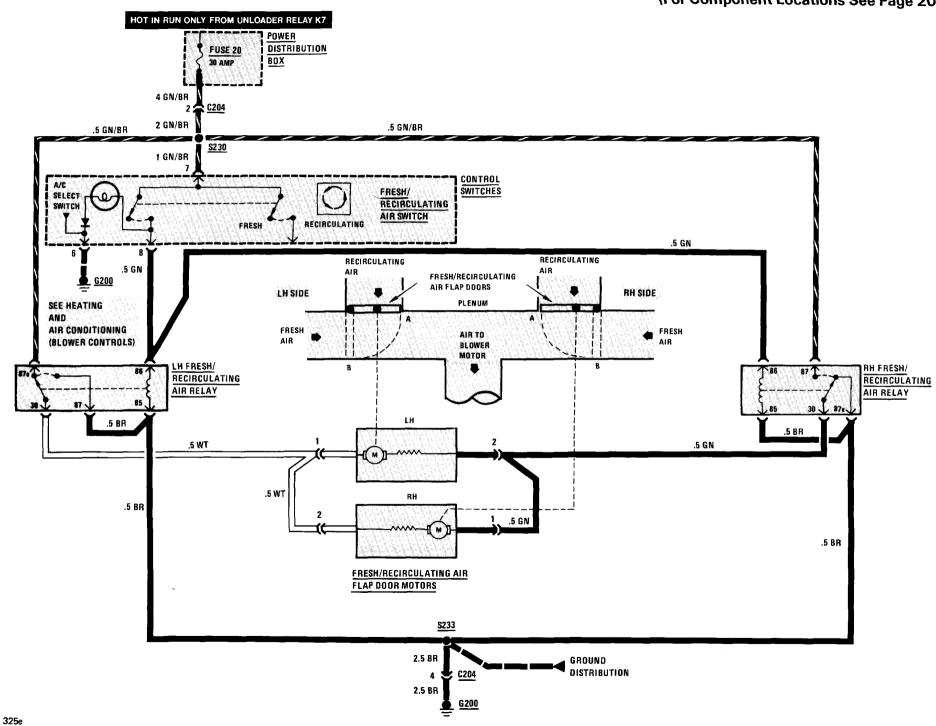
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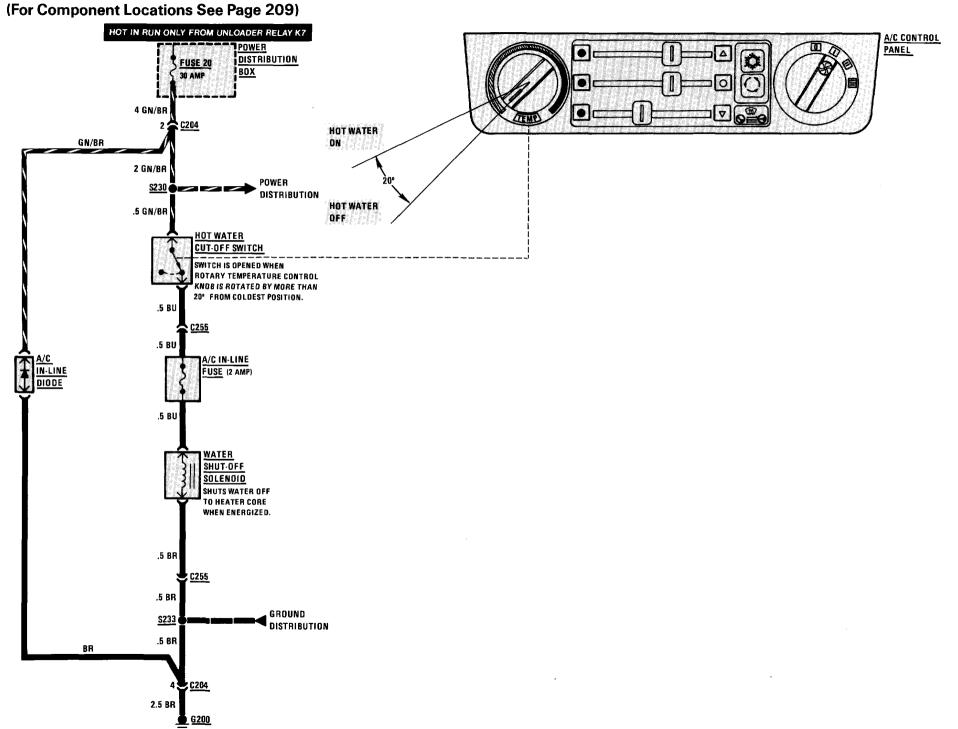




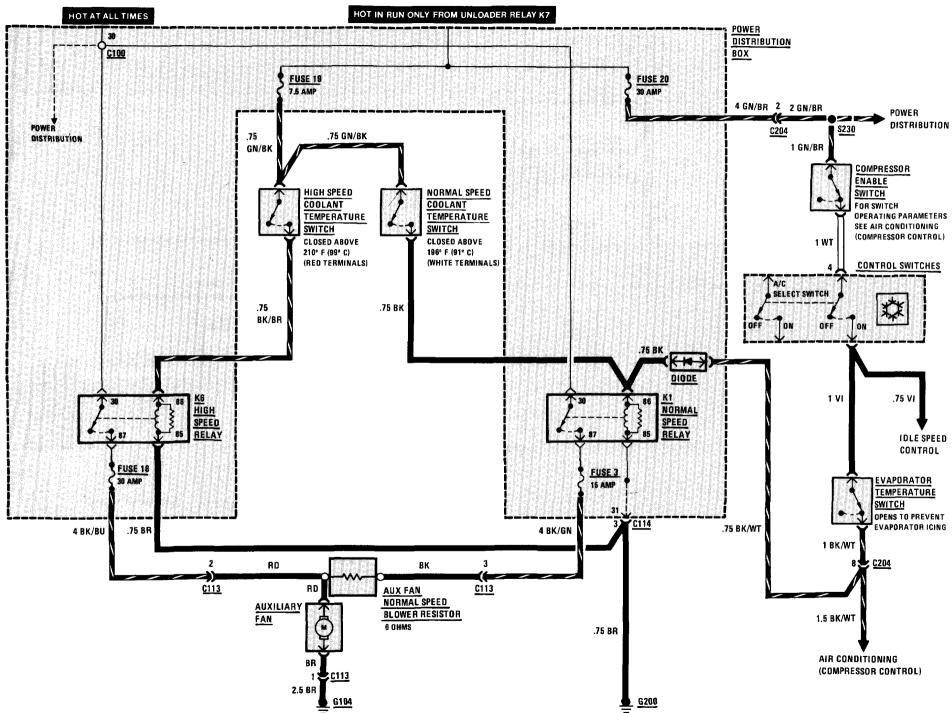
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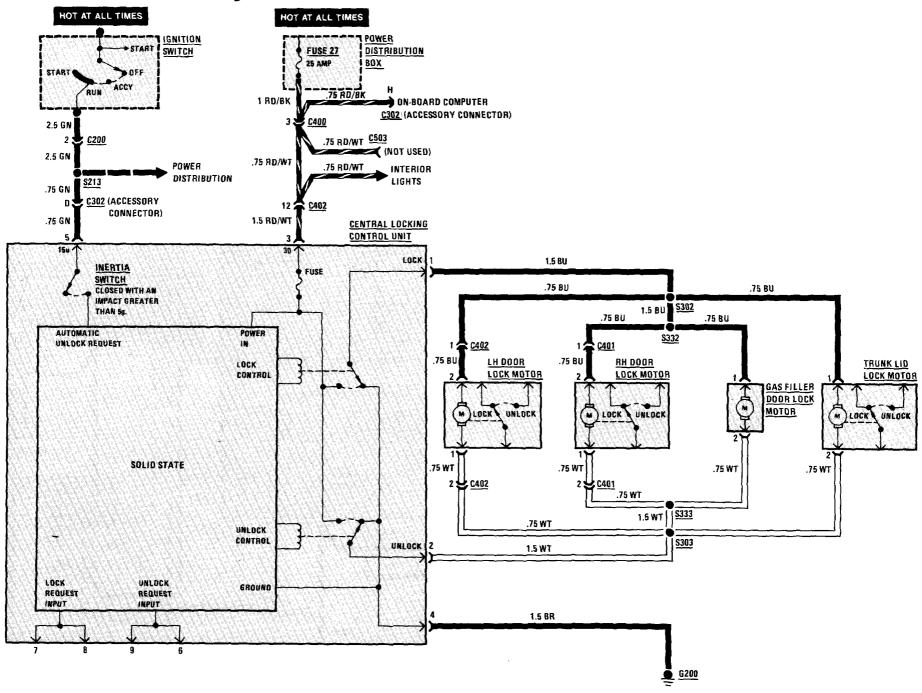
142 HEATING AND AIR CONDITIONING (HOT WATER CONTROL)



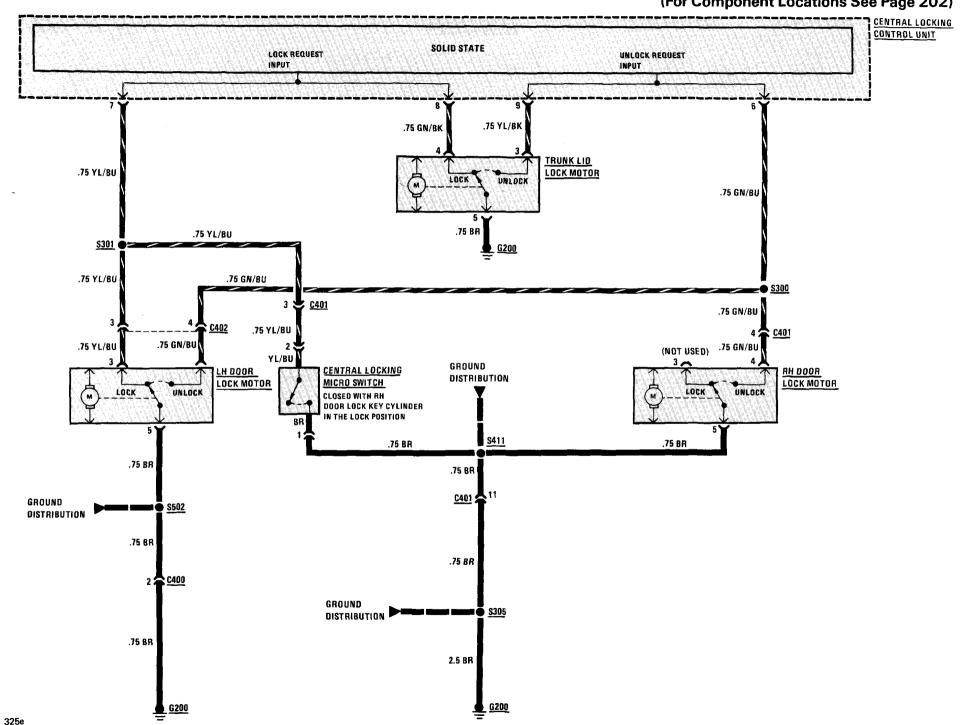
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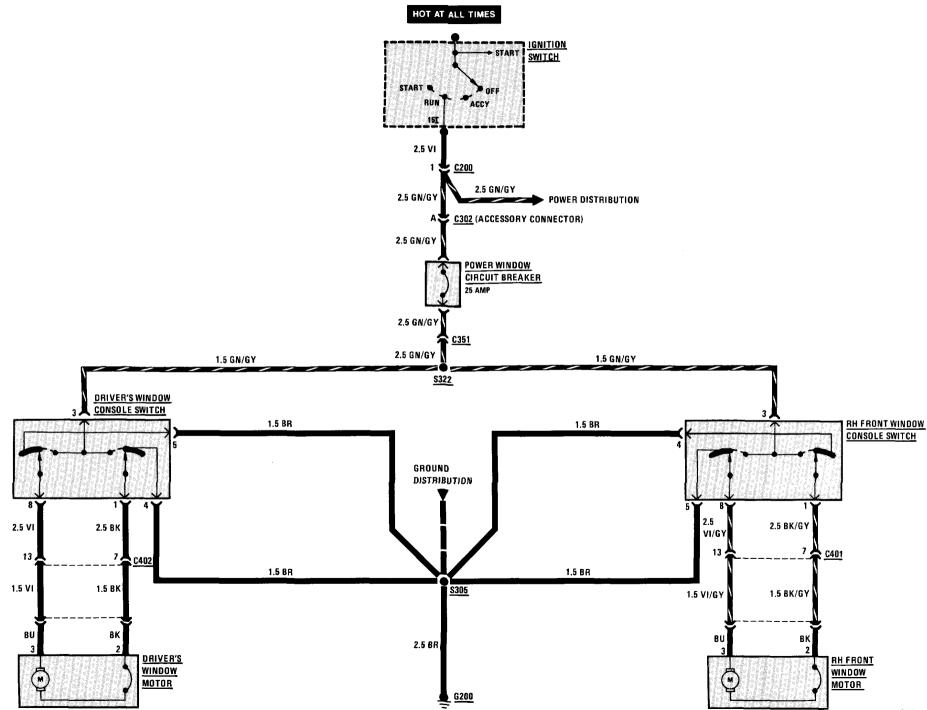
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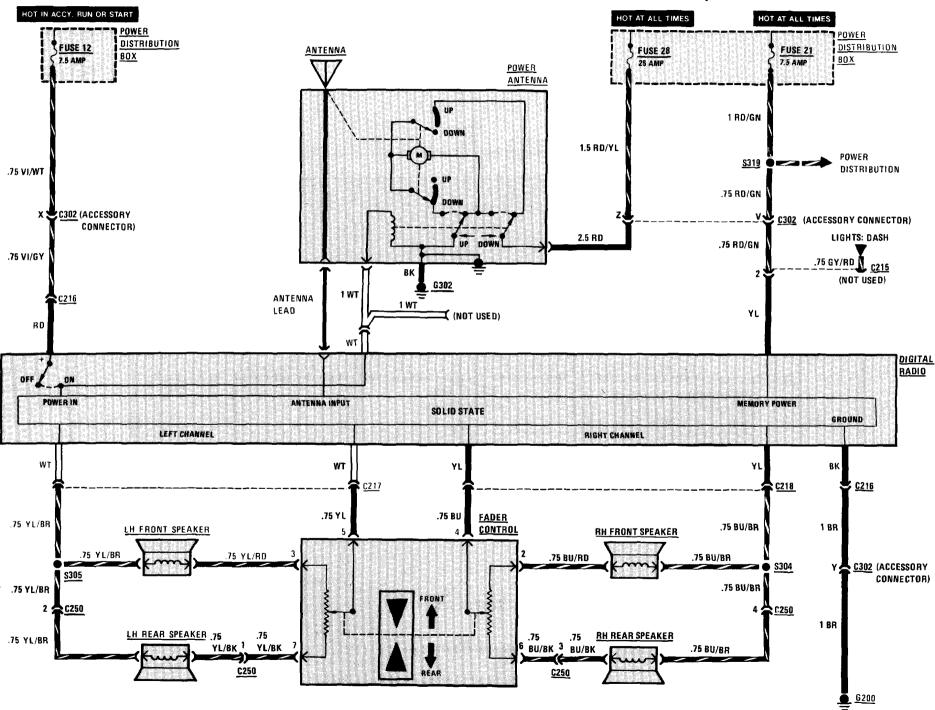
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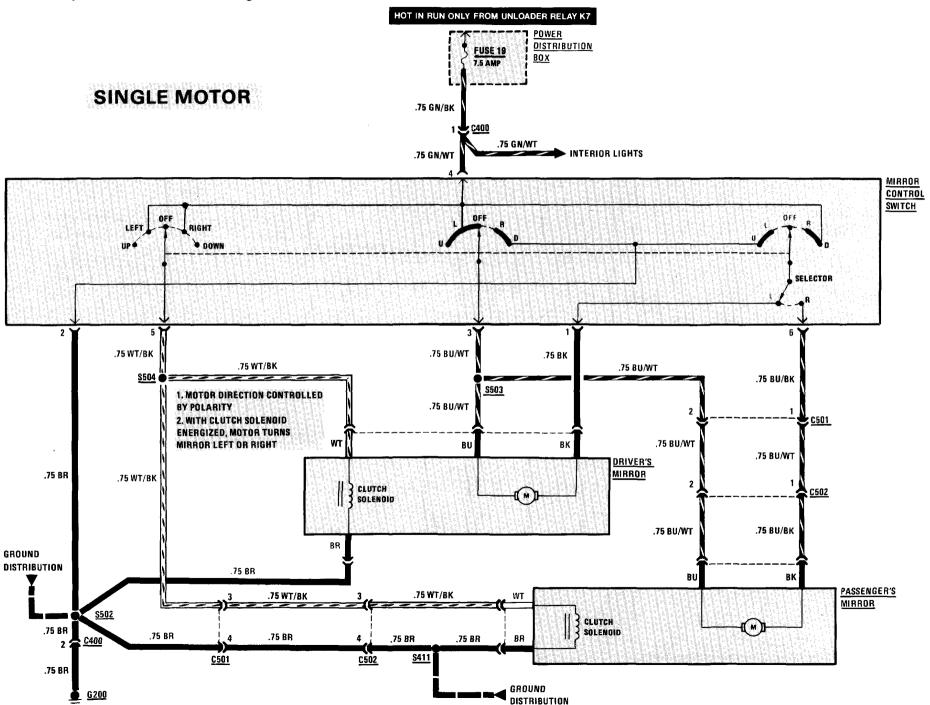
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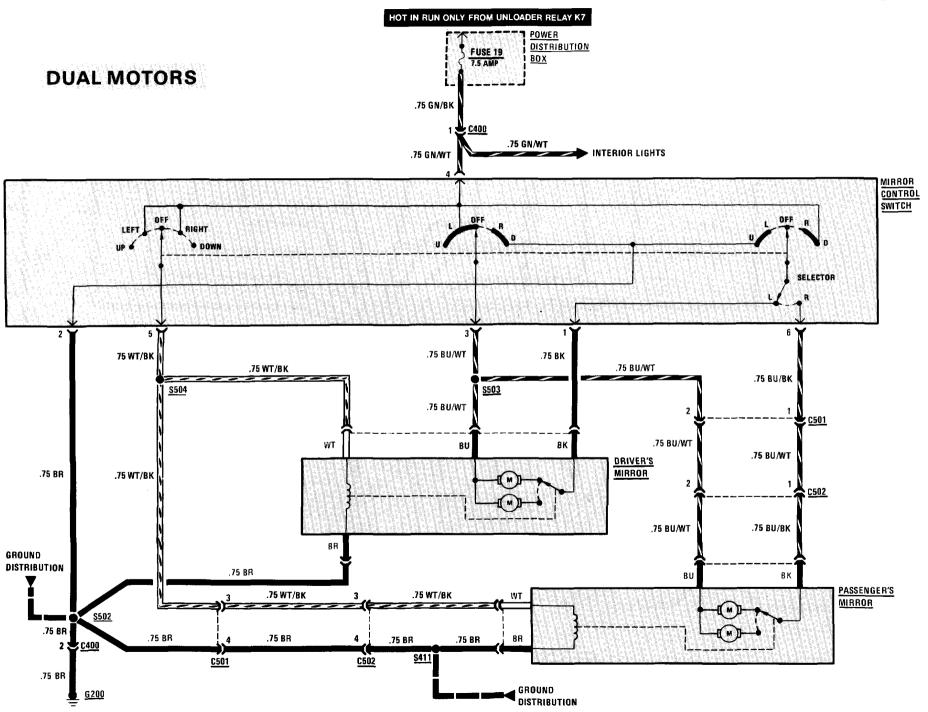
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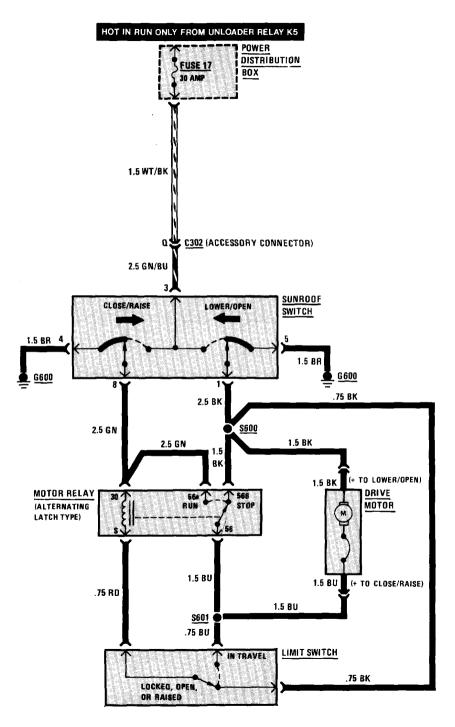
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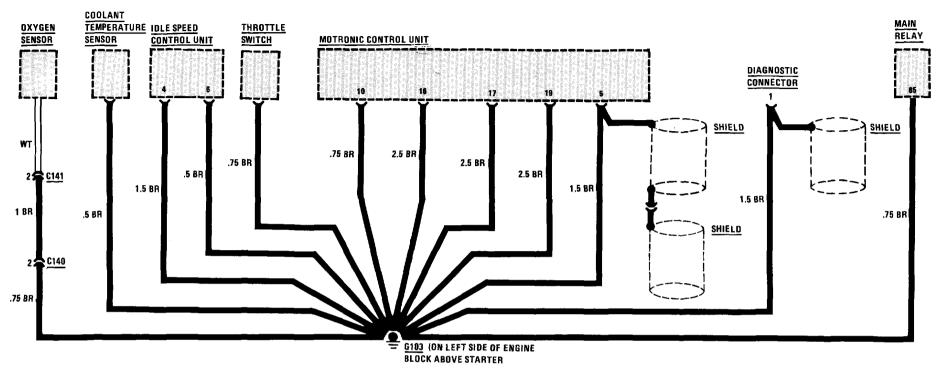


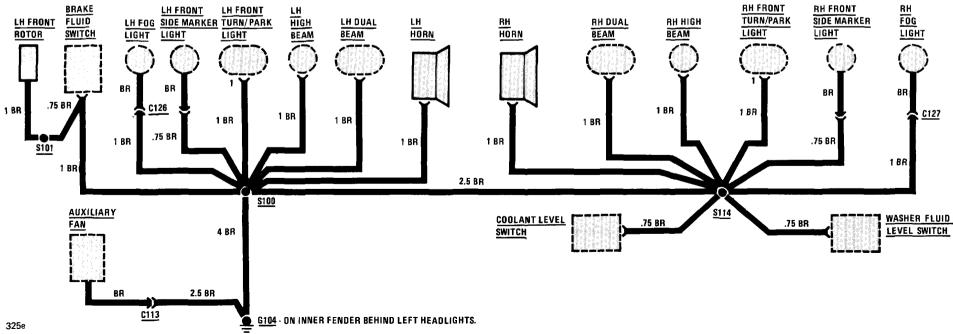
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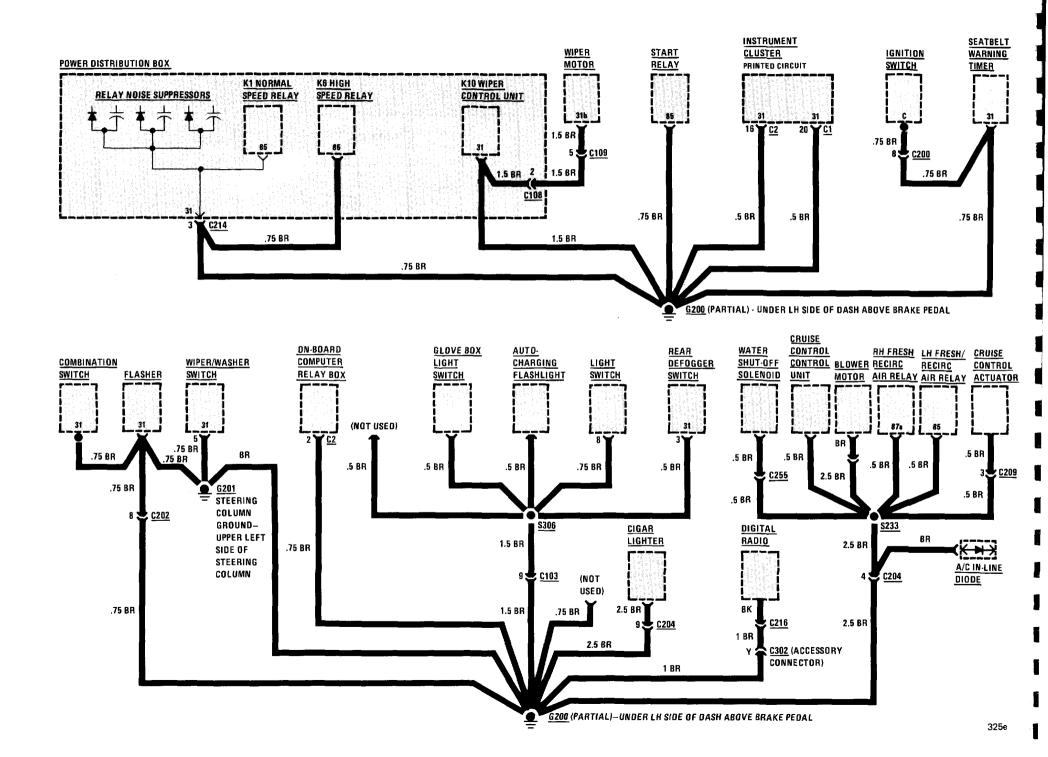


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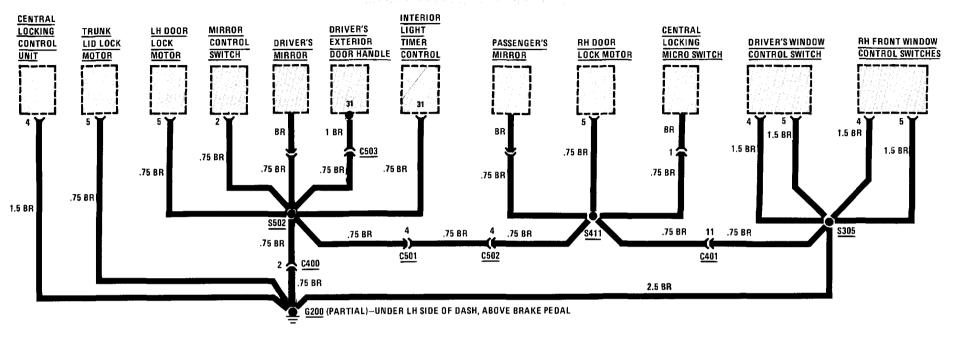


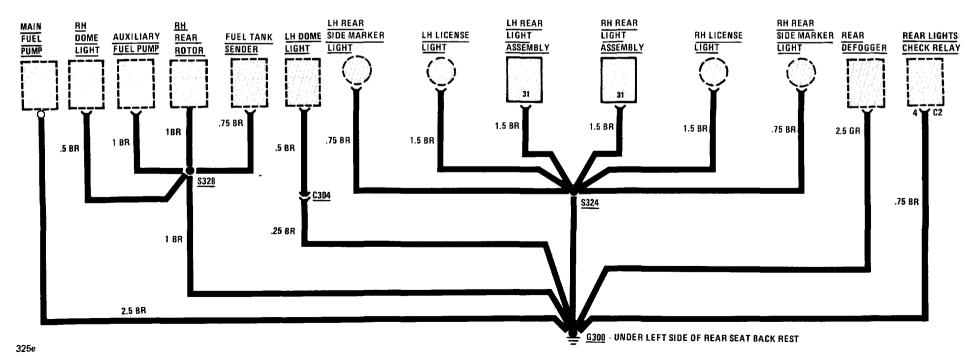






WITH CENTRAL LOCKING AND POWER WINDOWS





CIRCUITS USING C302 (ACCESSORY CONNECTOR)

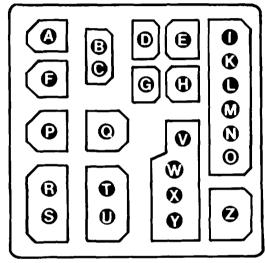


Figure 1-C302 (Accessory Connector)
Front View—Under LH Side
of Dash Ahead of Pedal Assembly

TERMINAL	CIRCUIT	TERMINAL	CIRCUIT
Α	Power Windows	N	Not Used
В	Not Used	0	Not Used
С	Not Used	Р	Not Used
D	Central Locking	Q	Sun Roof
E	Not Used	R	Cruise Control
F	Not Used	S	Cruise Control
G	Not Used	Т	Not Used
1 н	On-Board Computer	U	Not Used
1	Not Used	V	Radio
] J	Not Used	W	Not Used
K	Not Used	X	Radio
L	Not Used	Υ	Radio
М	Not Used	Z	Power Antenna

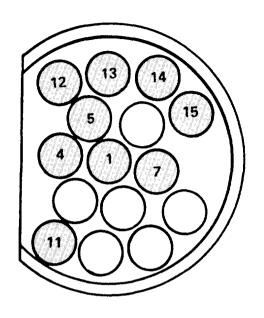
Section B

318i

Schematic Diagrams

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Air Conditioning	139	Front Side Marker	126
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Brake Warning System	120	Headlights (Control)	122
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· -	117	Power Distribution Box	102
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Ignition:	110	Service Interval Indicator	119
— With On-Board Computer	111	Speedometer	116
— Without On-Board Computer	121	Start	108
Ignition Key Warnings	116	Tachometer	118
Indicators	110	Temperature Gauge	117
Lights	147	Vacuum Advance	115
— Back Up	138	Warning Indicators	116
— Dash	138	Wiper/Washer	148
— Fog		*** ipol/** dollor:	
— Front Park	126		



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	BK	Ignition, Ignition Coil.
14	2.5	RD	Charge System, Alternator.
15	1.5	GN/YL	Idle Speed Control, Idle Speed Control Unit.

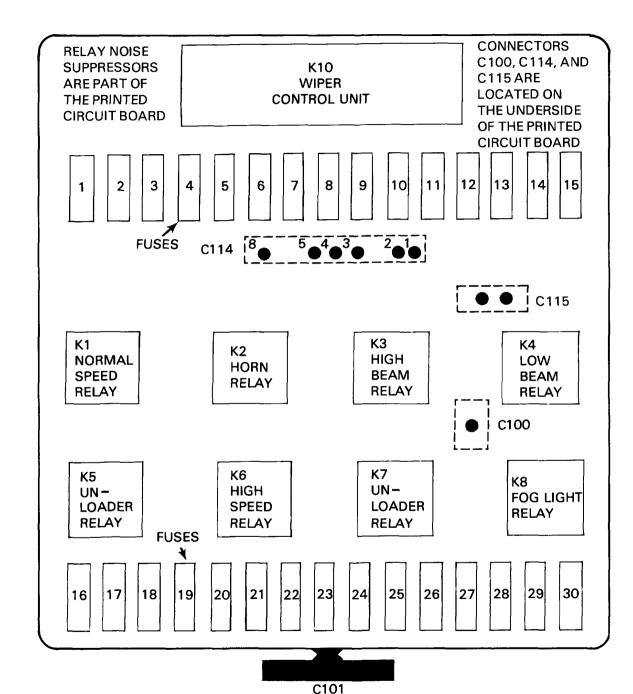
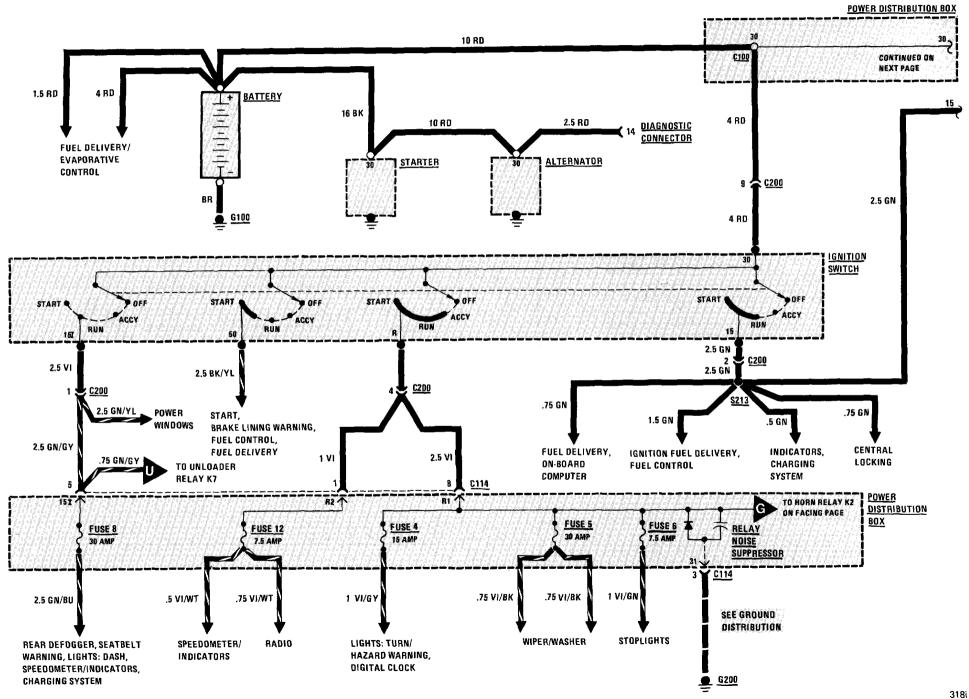


Figure 1 - Behind Left Front Shock Tower

FUSE NO.	SIZE/ COLOR	CIRCUIT NAME
1	7.5A (BR)	Headlights (also fuses 2, 13, 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); Digital Clock.
5	30A (LT GN)	Wiper/Washer.
6	7.5A (BR)	Stoplights/Cruise Control (also fuse 10).
7	15A (LT BU)	Horn.
8	30A (LT GN)	Rear Defogger (also 23); Seatbelt Warning (also fuses 10, 21); Speedometer/Indicators (also fuse 12).
9	15A (LT BU)	Idle Speed Control/Vacuum Advance.
10	7.5A (BR)	Seatbelt Warning (also fuses 8,21); Service Interval Indicator (also fuse 21); Tachometer/Fuel Economy Gauges (also fuse 24); Gauges/Indicators; Brake Warning System; Start, Back Up Lights; Idle Speed Control (also fuse 10); Stoplights/Cruise Control (also fuse 6); On-Board Computer (also fuses 12, 21, 27).
11	15A (LT BU)	Fuel Delivery.
12	7.5A (BR)	Radio (also fuse 21); Speedometer/Indicators (also fuse 8); On-Board Computer (also fuses 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	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, 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/Seatbelt Warning (also fuse 8, 10); Interior Lights (also fuses 14, 22, 27); Radio (also fuses 12); Trunk Light; Service Interval Indicator (also fuse 10); On-Board Computer (also fuses 10, 12, 27).
22	7.5A (BR)	Interior Lights (also fuses 19, 21, 27); 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; Rear Defogger (also fuse 8).
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		Not Used.
26		Not Used.
27	30A (LT GN)	Interior Lights (also fuses 19, 21, 22); 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).

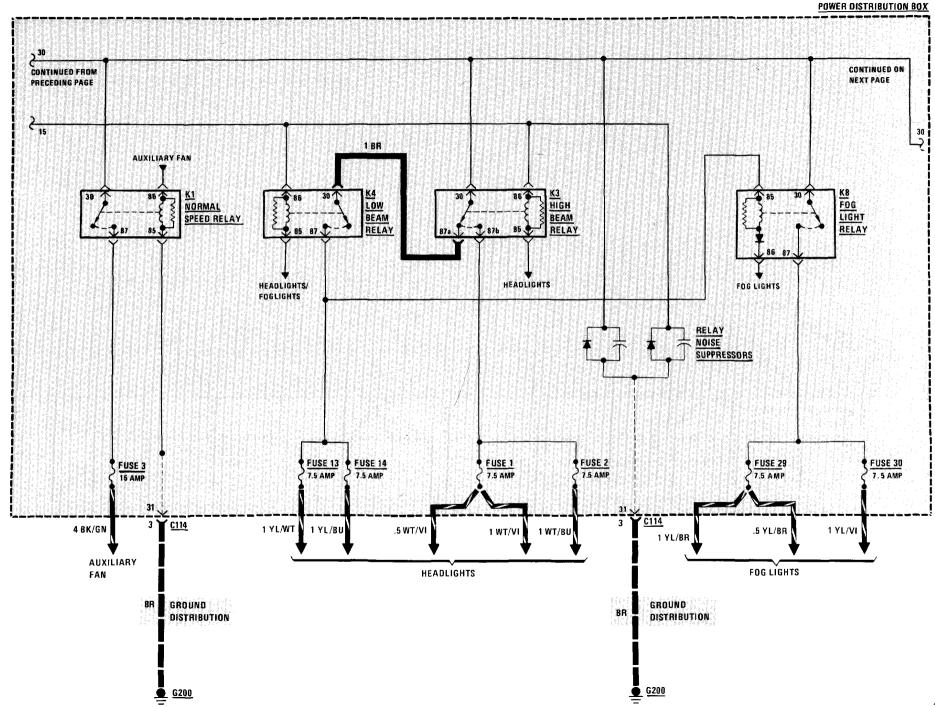
(For Component Locations See Page 212)

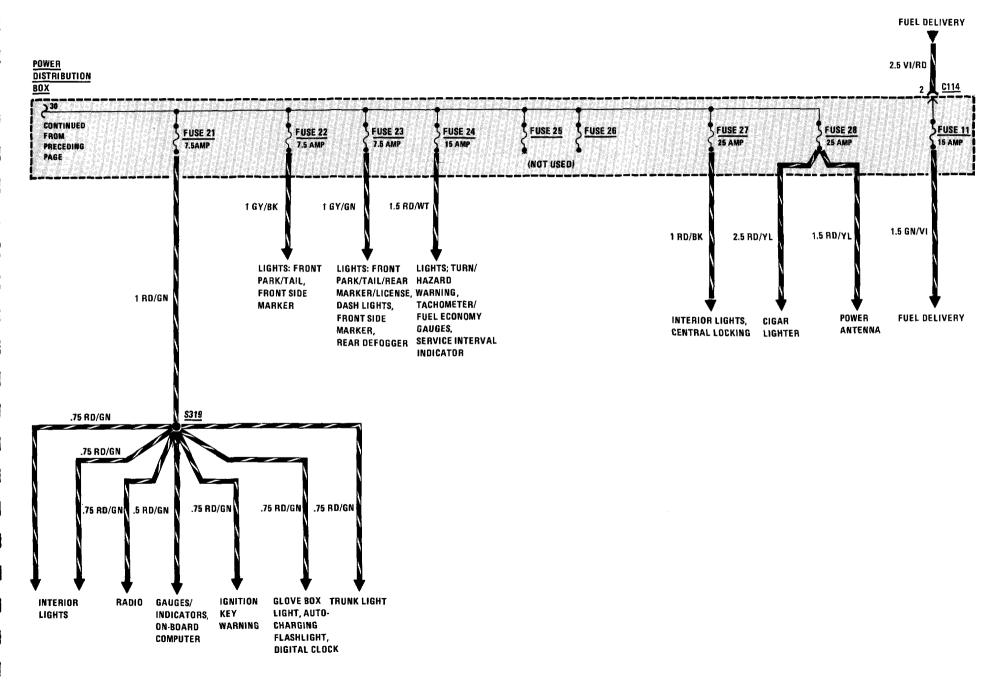


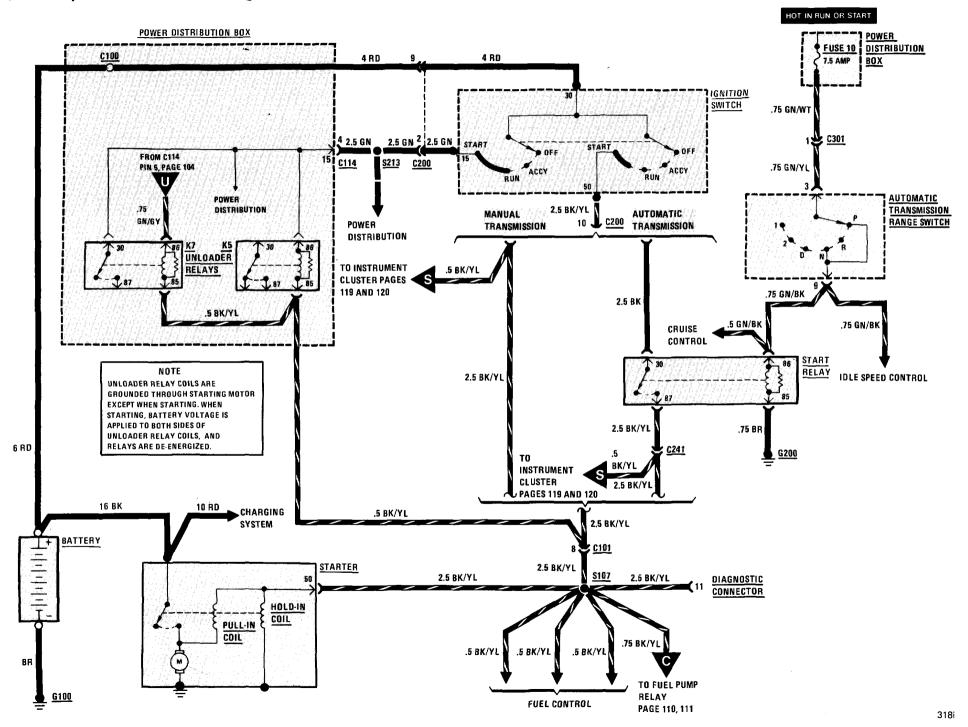
POWER DISTRIBUTION BOX FROM C100 ON PRECEDING PAGE CONTINUED ON NEXT PAGE 2.5 GN 4 i C114 FROM FROM FACING PAGE FACING PAGE AUXILIARY FAN .75 GN/GY K6 HIGH SPEED K2 HORN <u>UNLOADER</u> <u>unloader</u> RELAY RELAY RELAY 85 B7 🗘 .5 BK/YL AUXILIARY FAN FUSE 7 15 AMP FUSE 18 30 AMP FUSE 10 7.5 AMP FUSE 17 FUSE 9 .75 GN/ FUSE 20 FUSE 16 FUSE 19 38 AMP 15 AMP 7.5 AMP (NOT USED) .75 BR/YL 1 VI/YL 1 VI/YL 4 BK/BU BACK UP 1.5 GN/YL .5 BK/YL 2.5 WT/BK 4 GN/BR .75 GN/BK .75 GN/BK LIGHTS .75 GN/WT **AUXILIARY FAN** IDLE SPEED **HEATING AND** START INTERIOR AUXILIARY CONTROL, HORN AIR LIGHTS, FAN VACUUM CONDITIONING, .5 GN/WT POWER ADVANCE **AUXILIARY FAN** MIRRORS .5 GN/WT .75 GN/WT WARNING INDICATORS, SEATBELT Q . C302 (ACCESSORY CONNECTOR) WARNING TACHOMETER/FUEL (NOT USED) **ECONOMY GAUGES,**

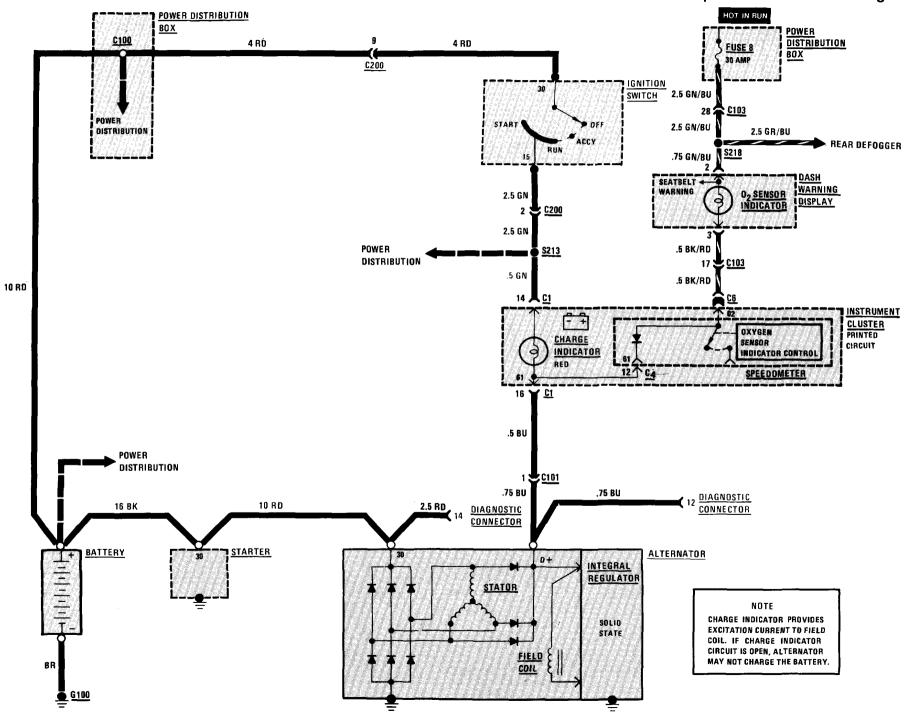
GAUGES/INDICATORS, BRAKE WARNING SYSTEM,

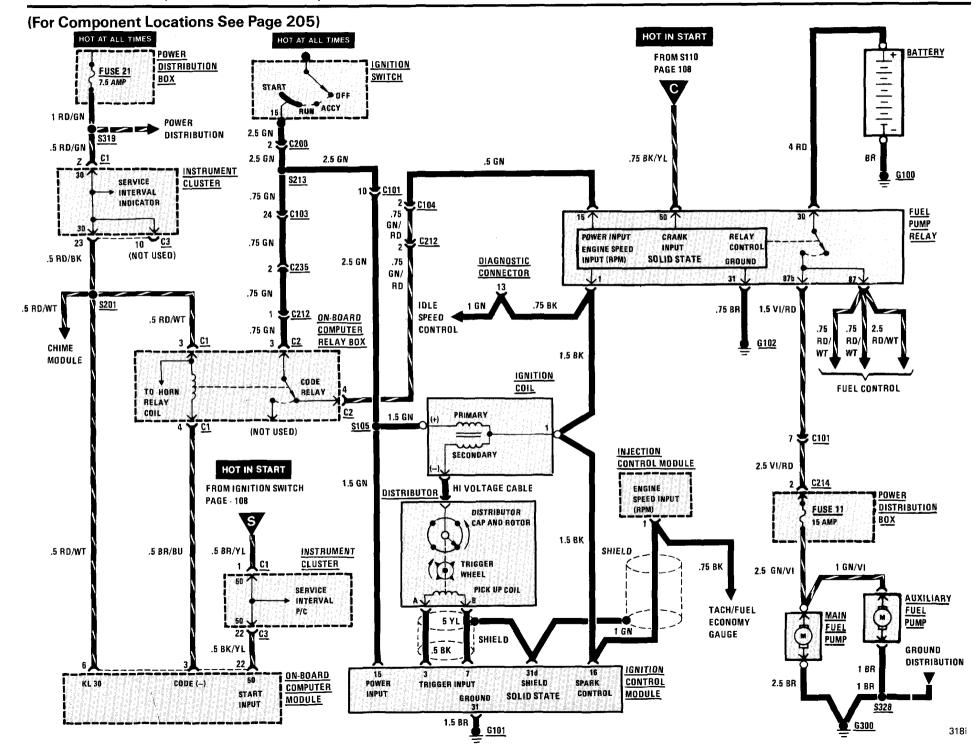
SERVICE INTERVAL INDICATOR ON-BOARD COMPUTER

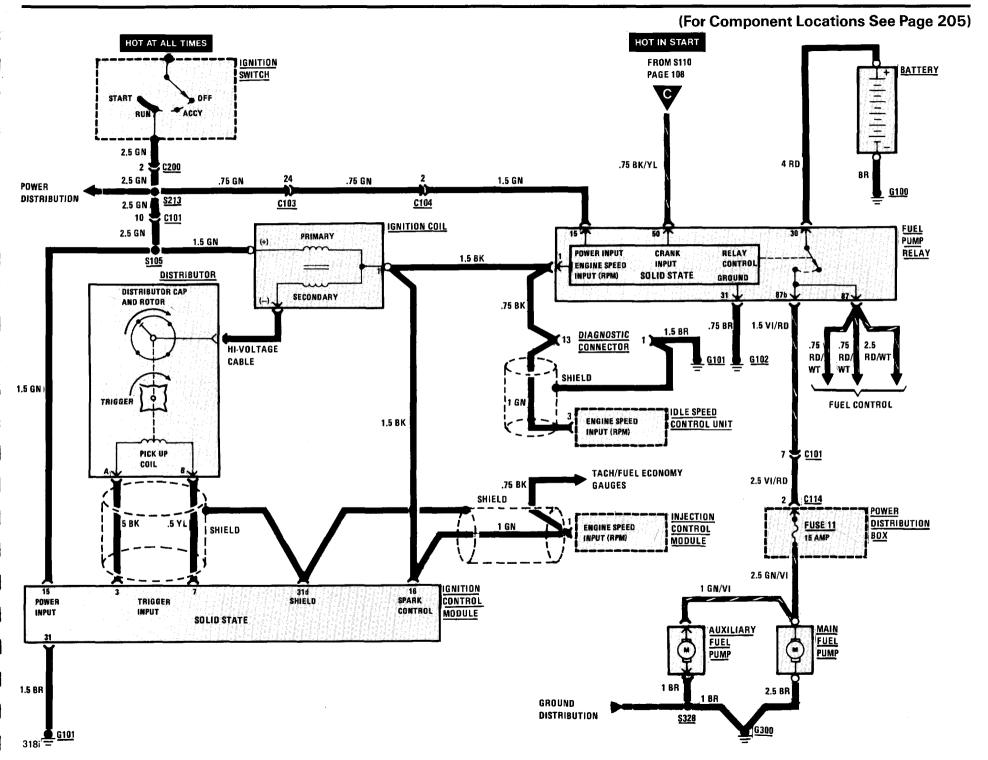


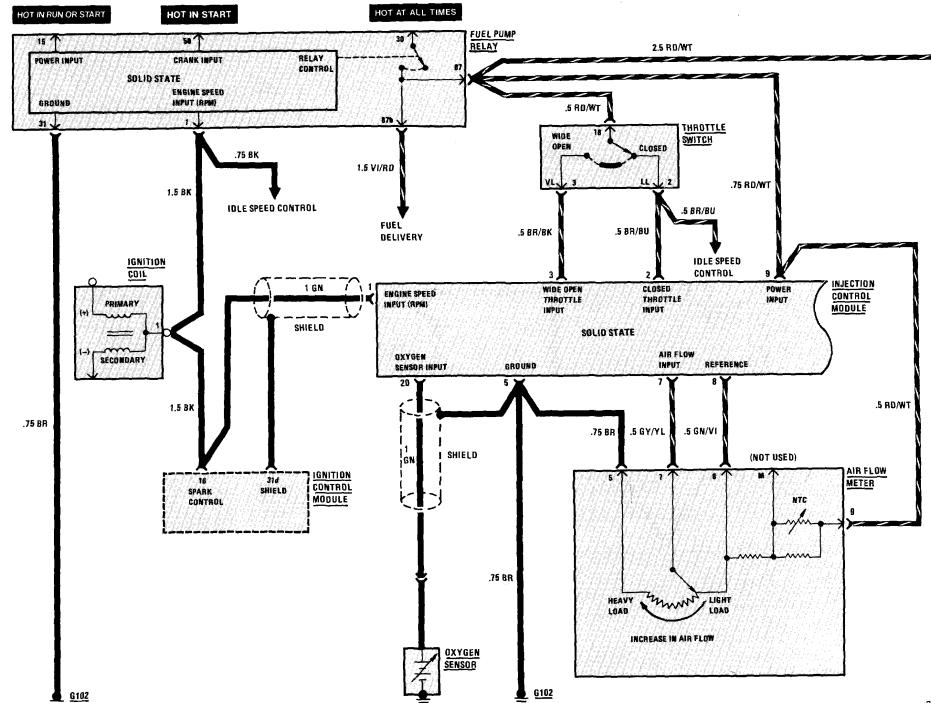


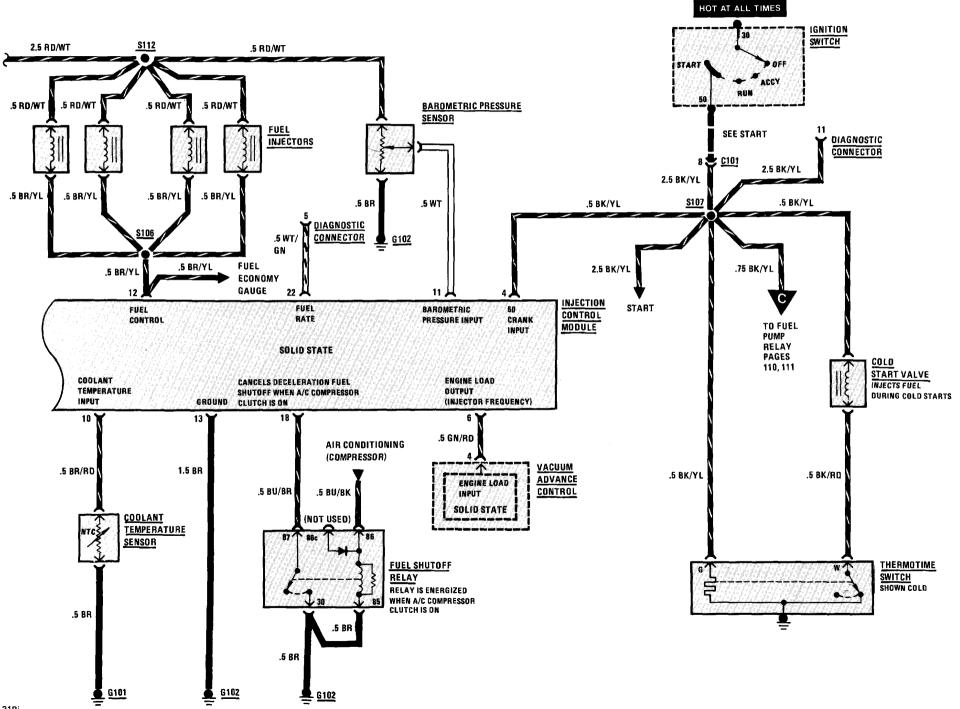


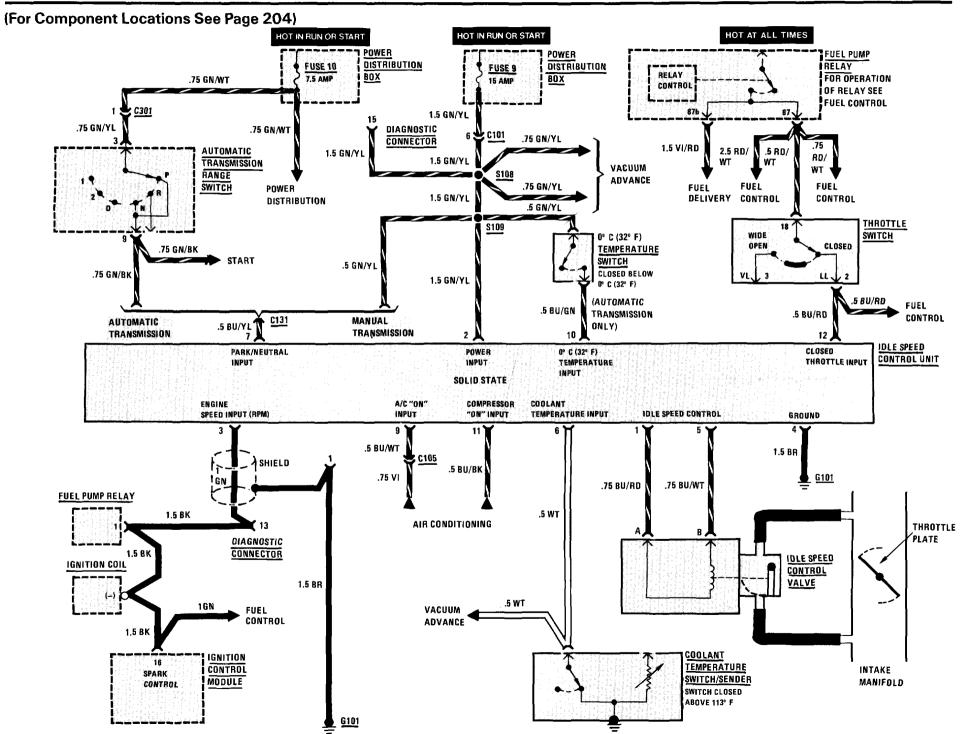


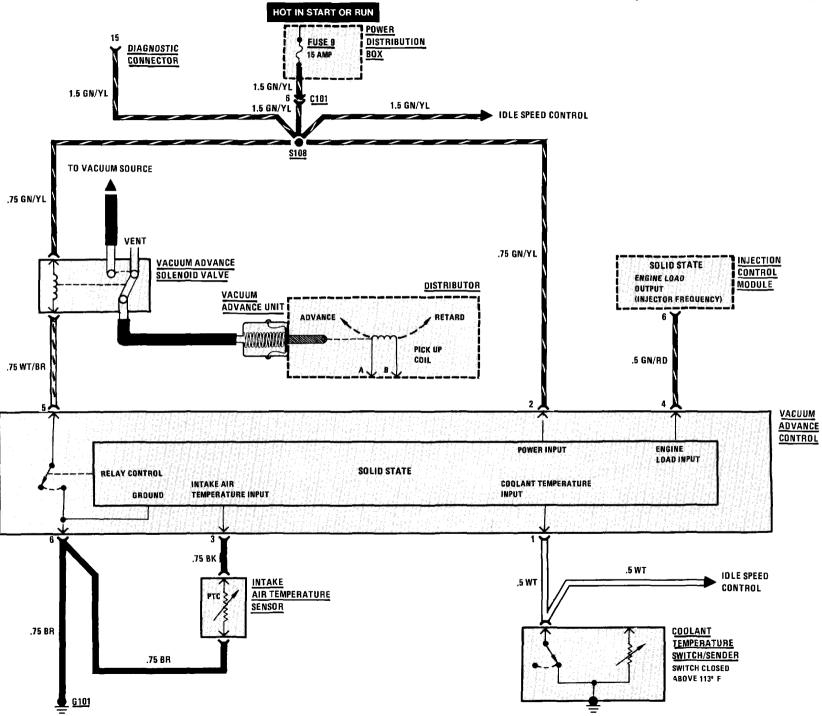


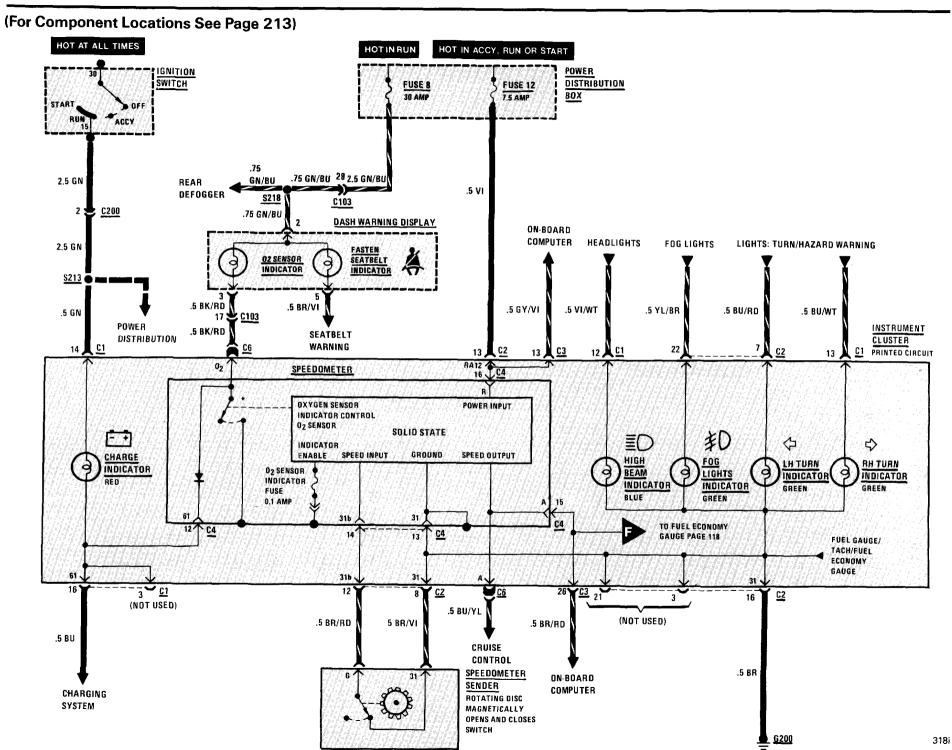


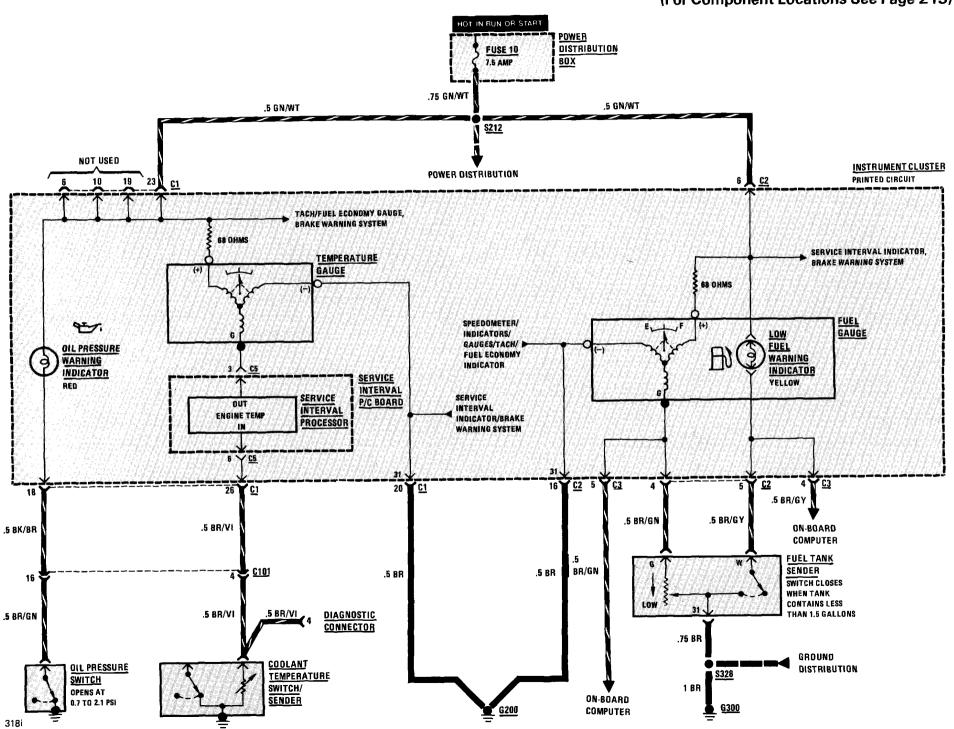


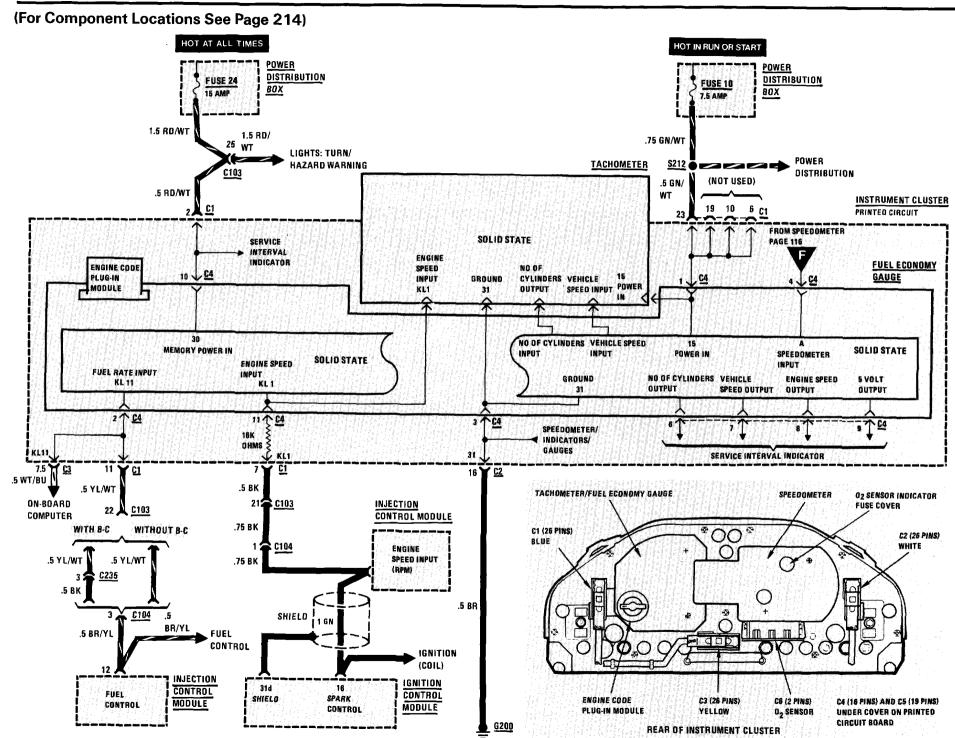


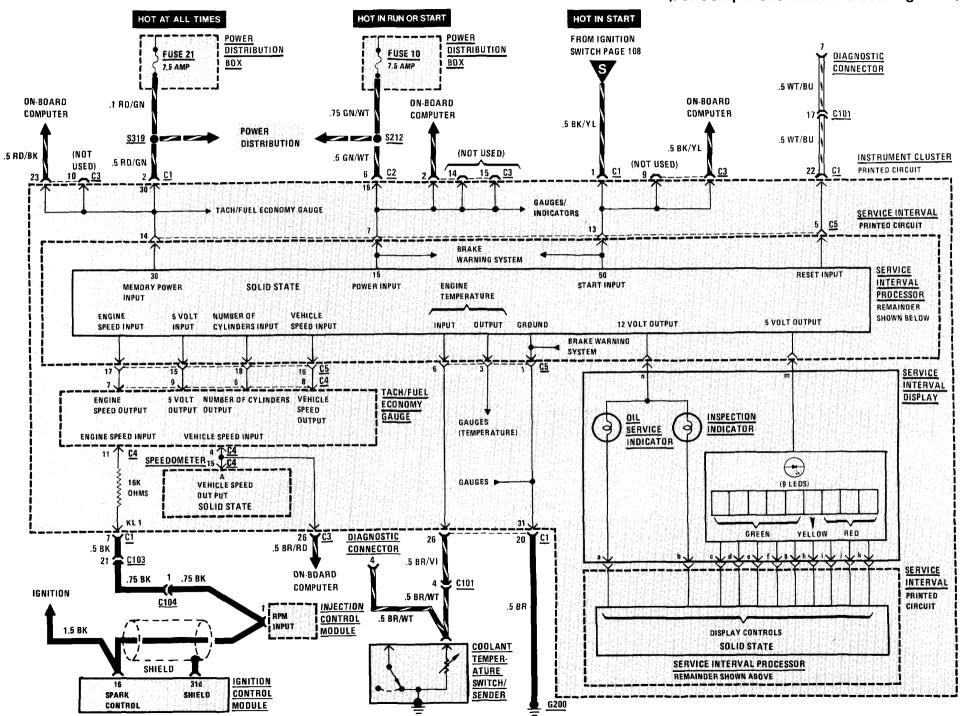


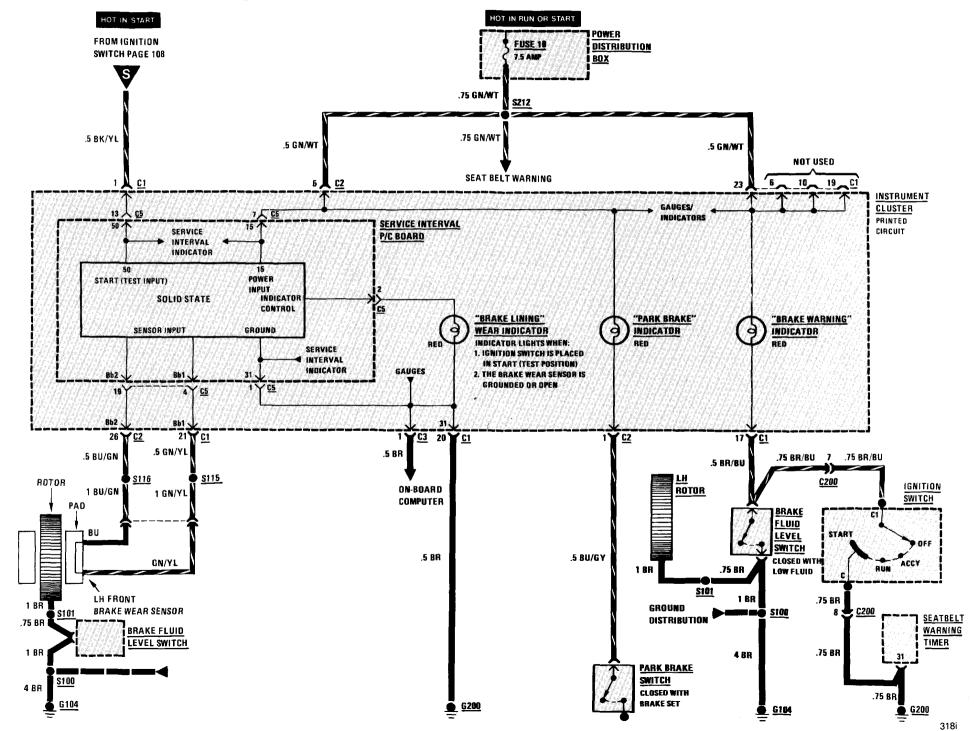


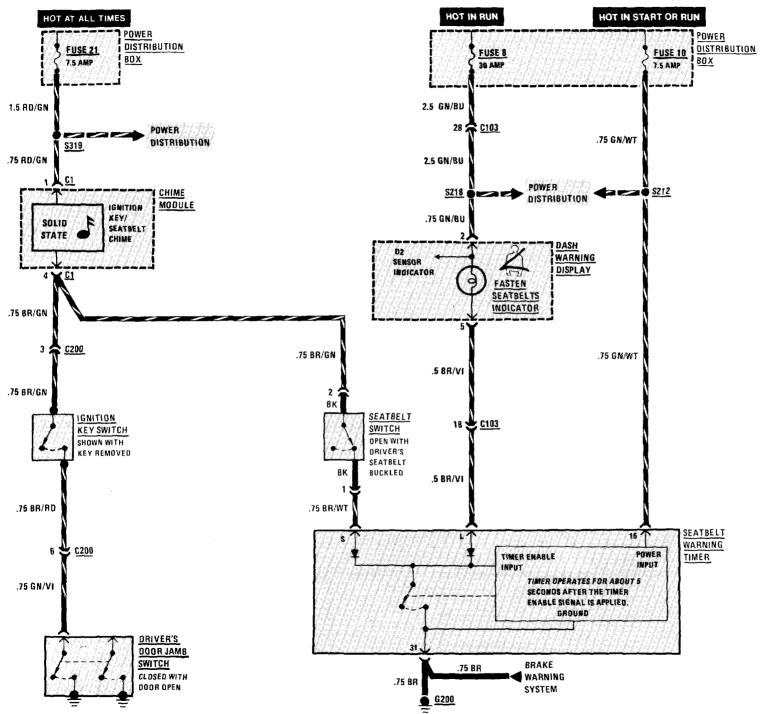


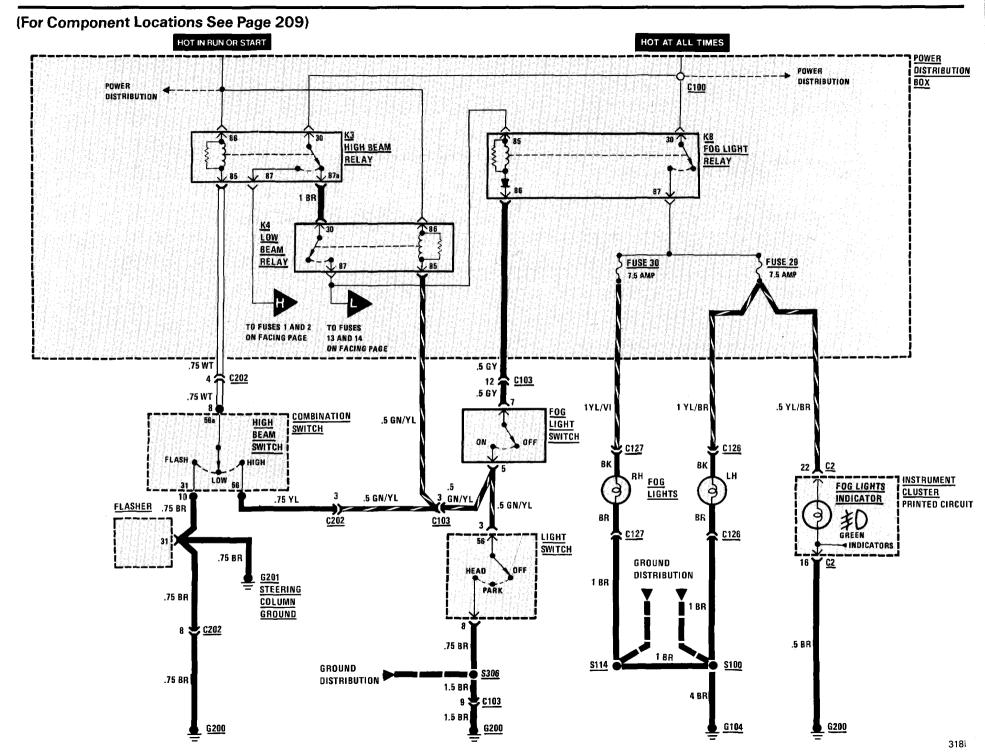


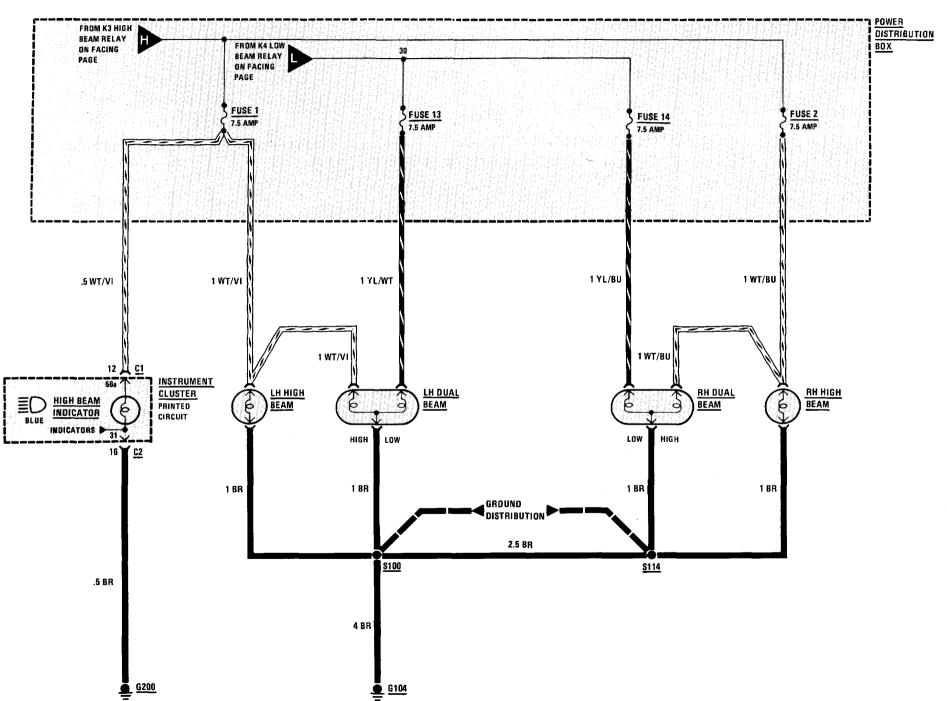


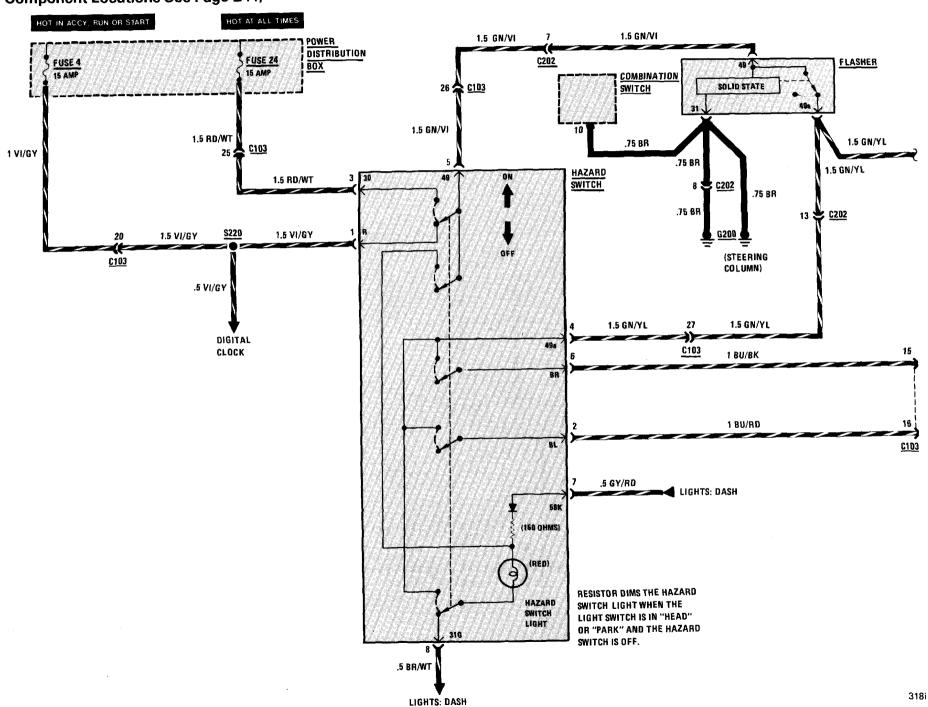


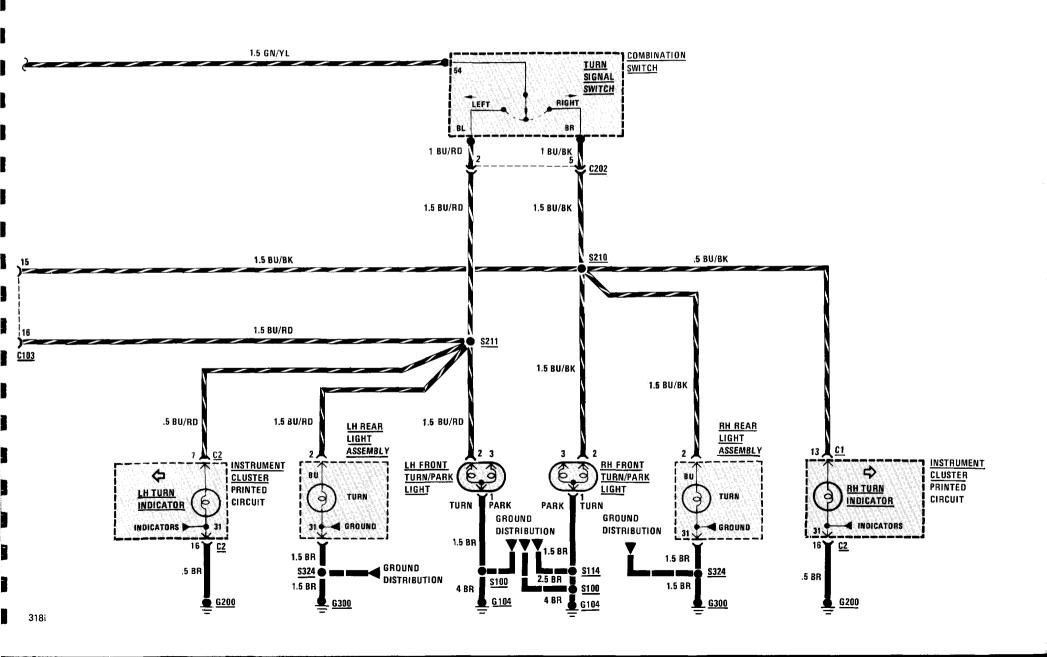


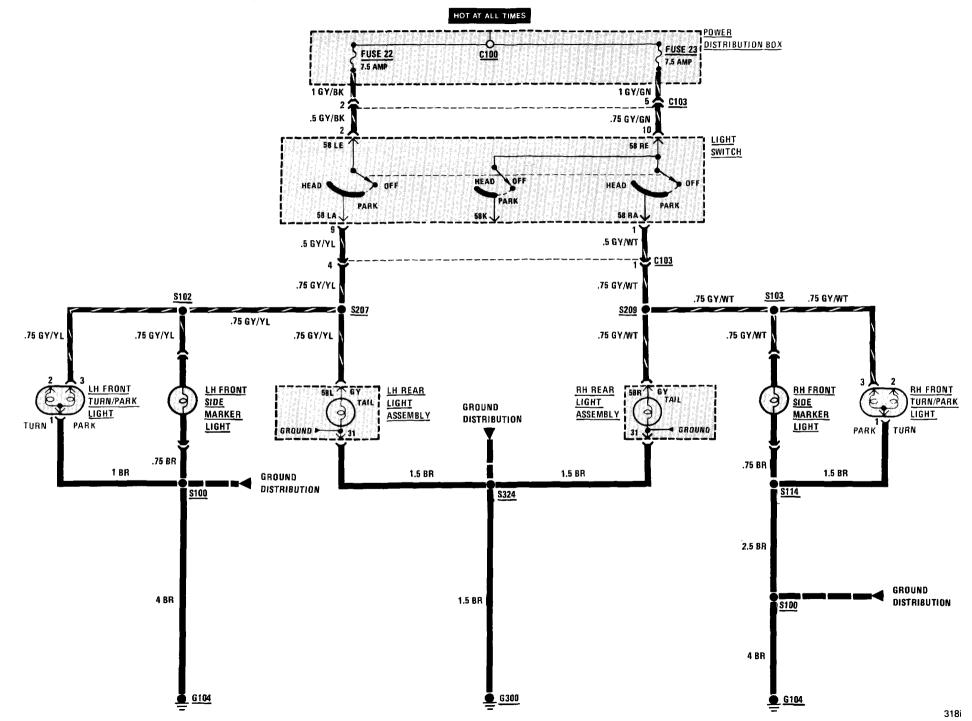


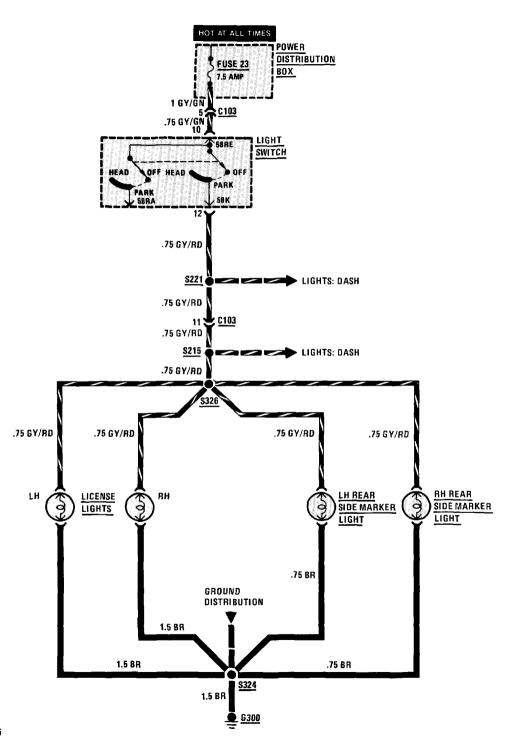


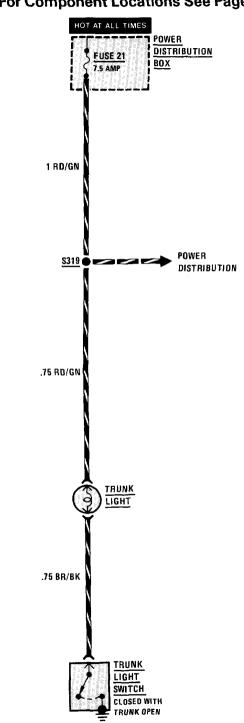


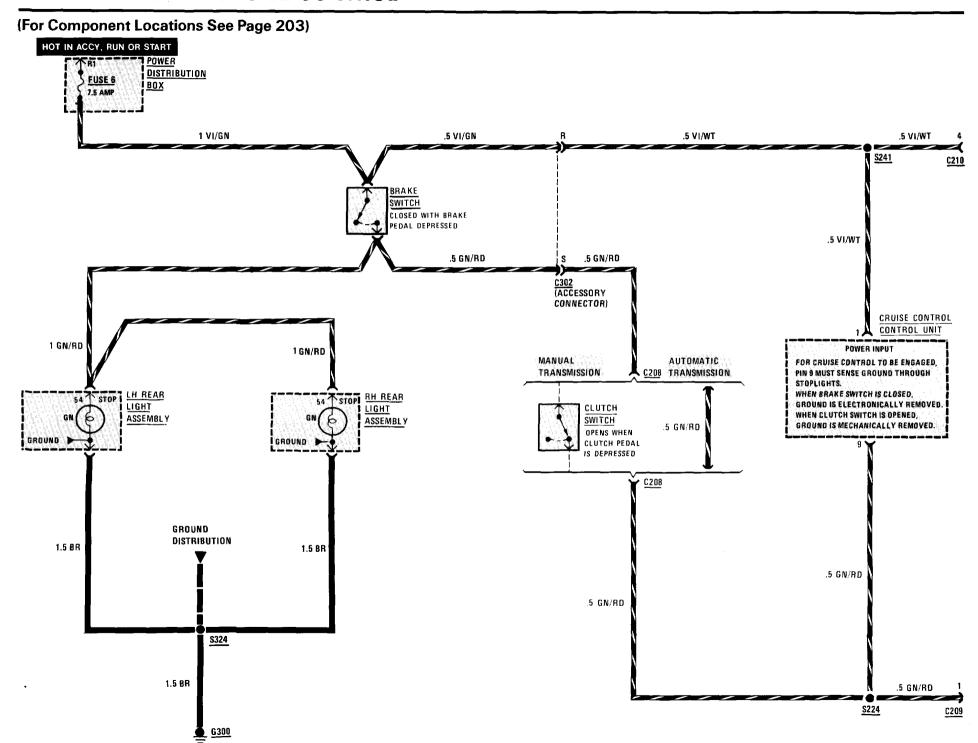


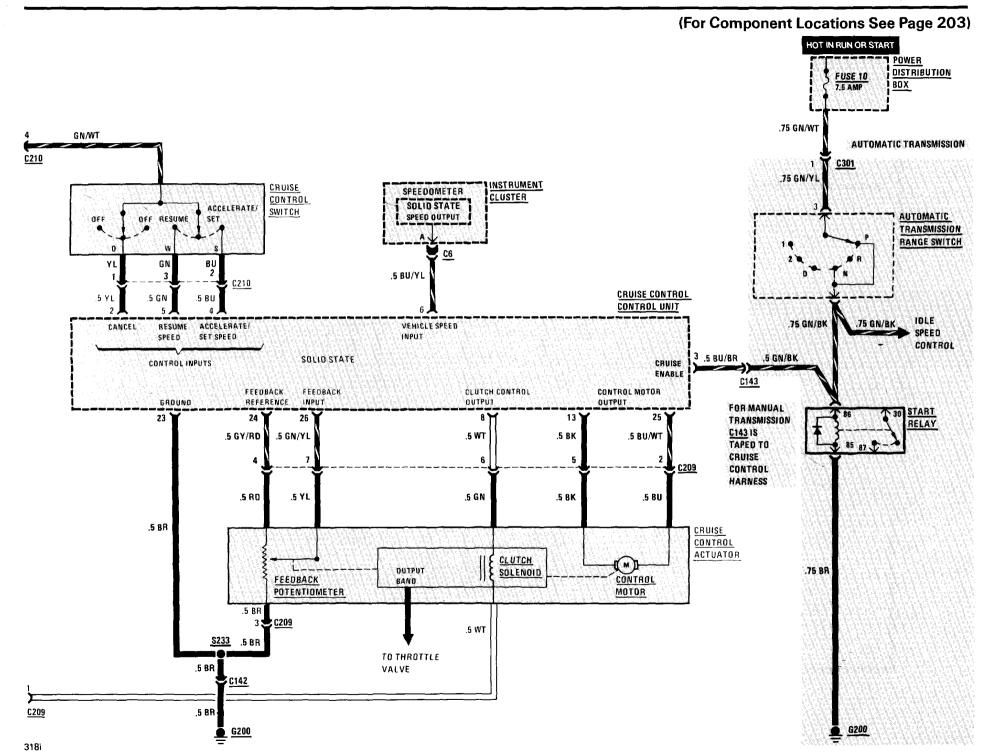


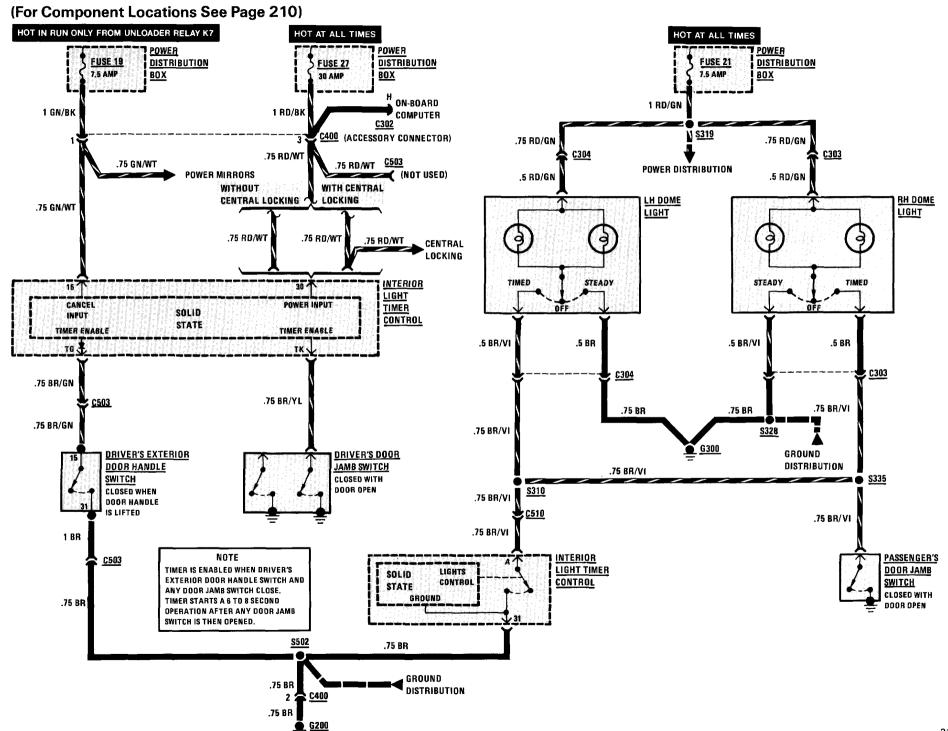


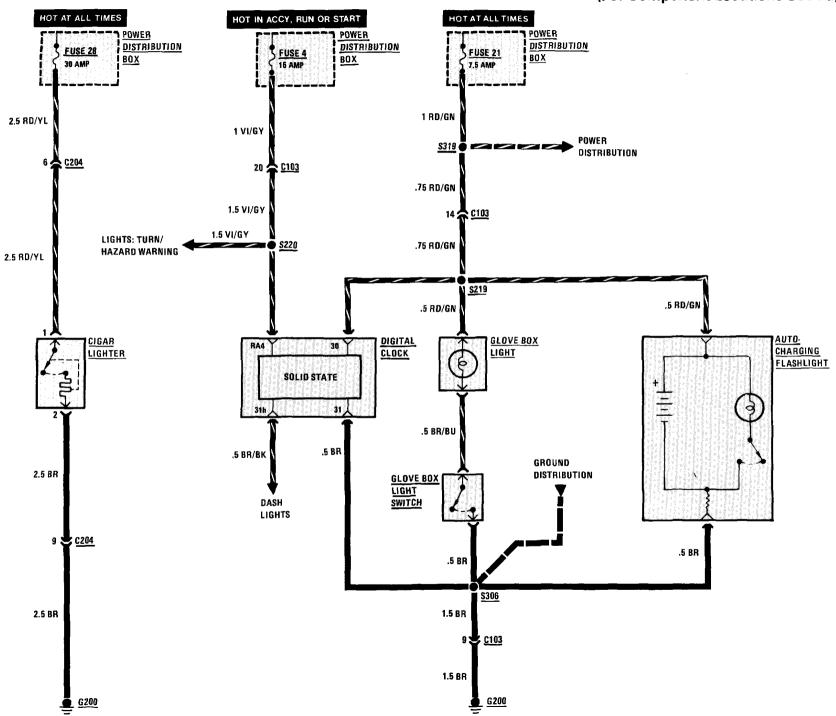


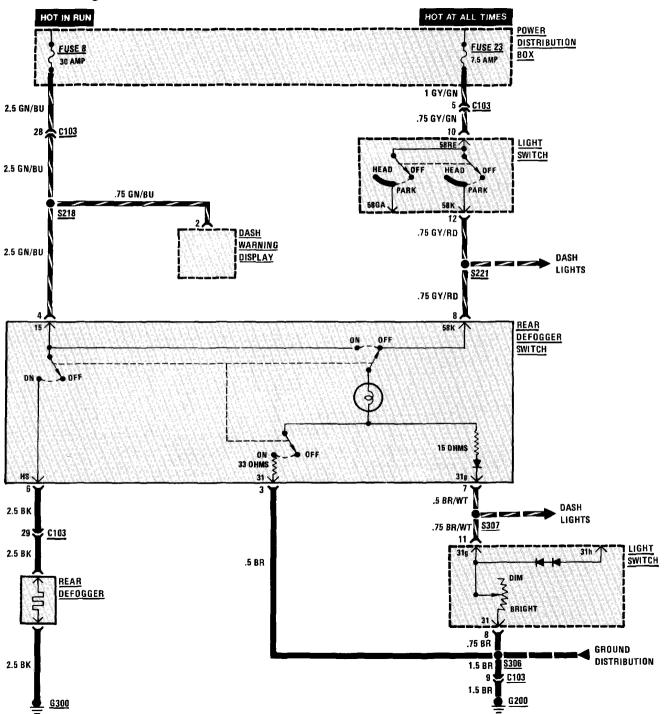


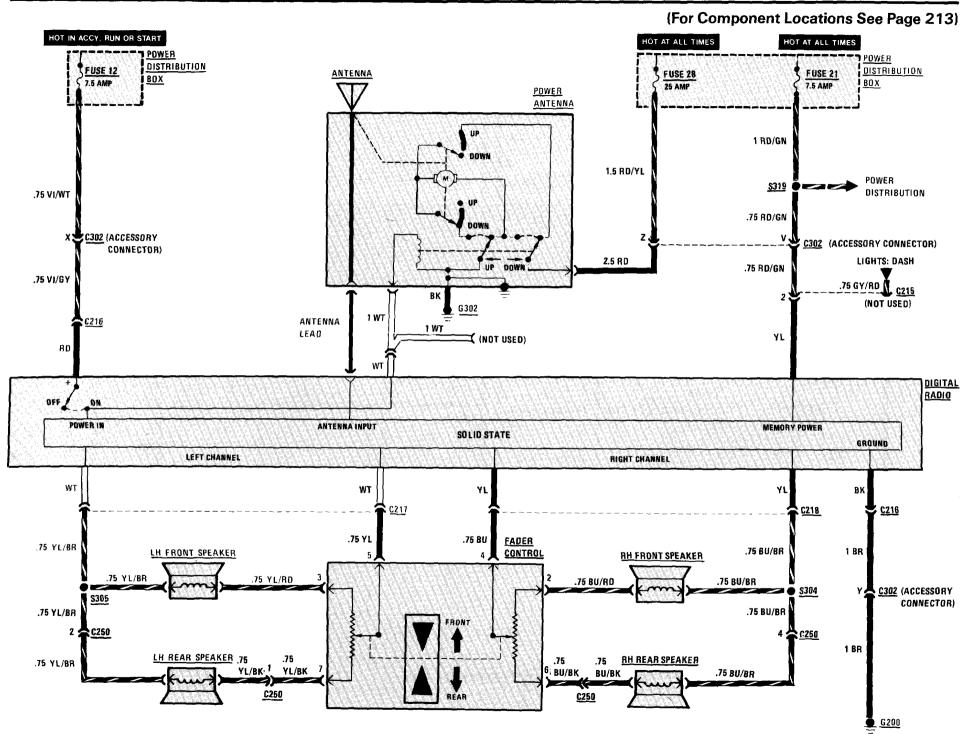


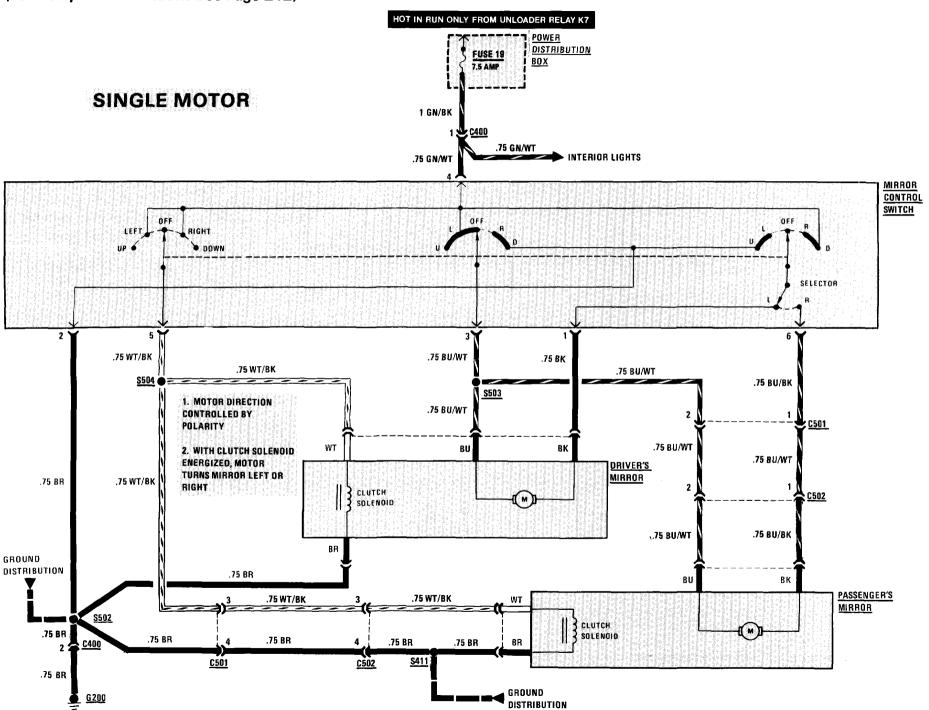


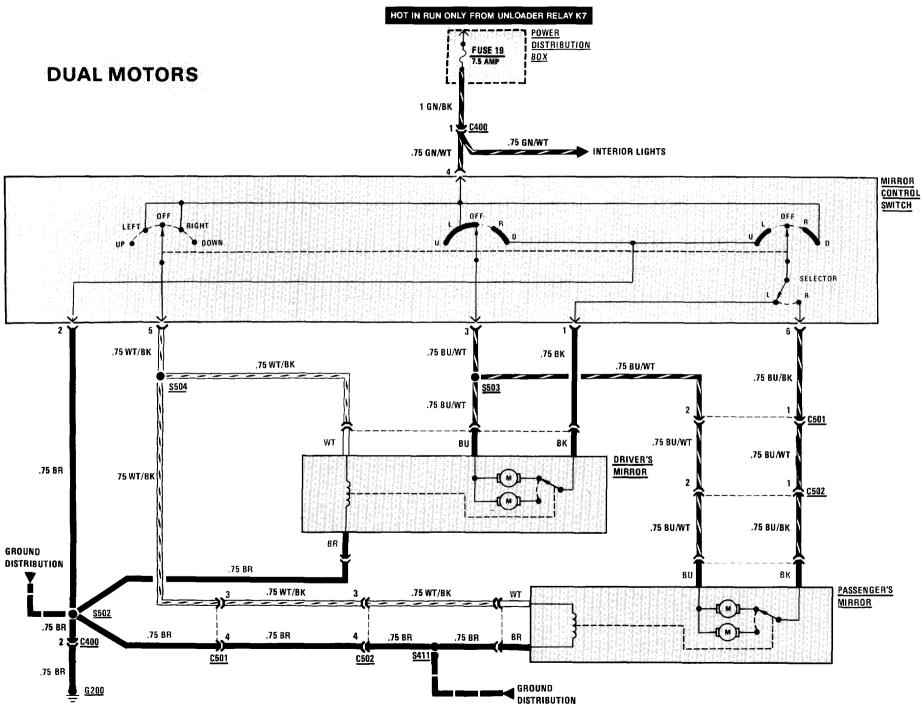


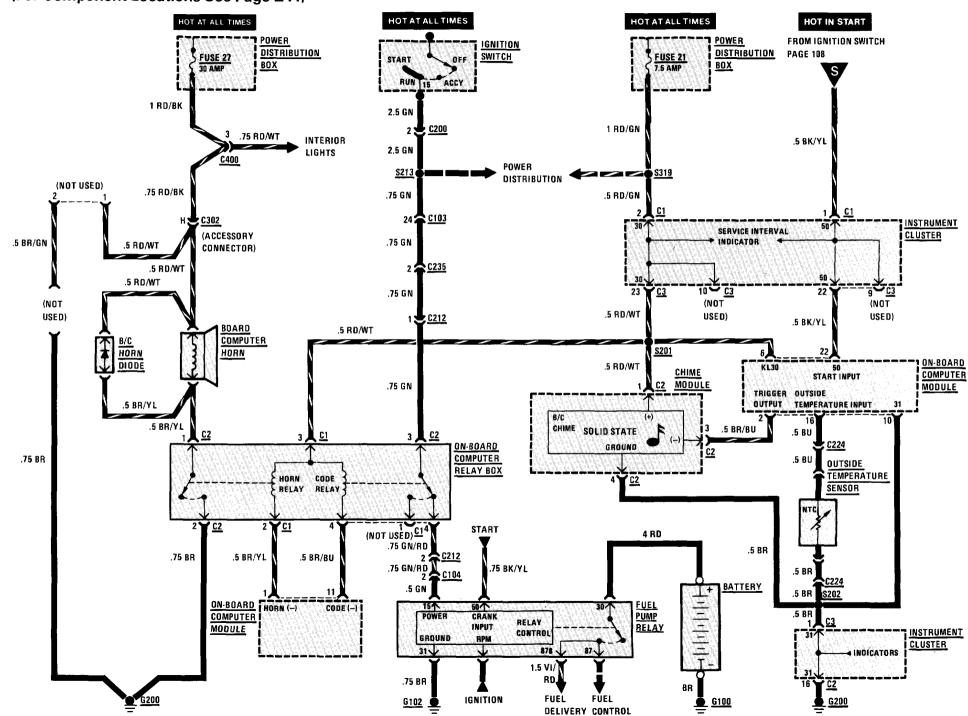


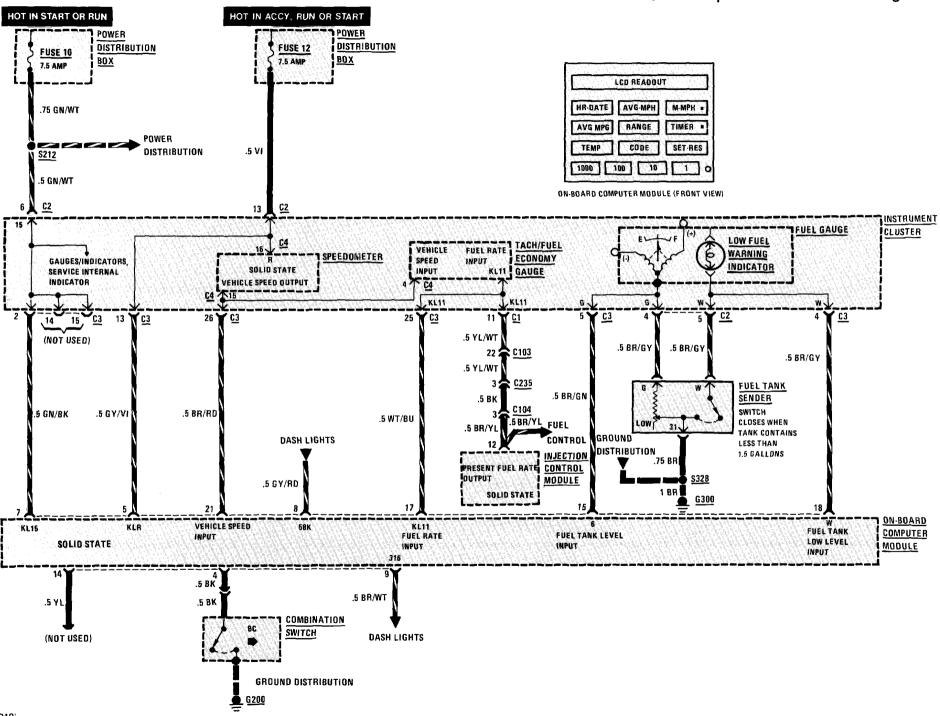


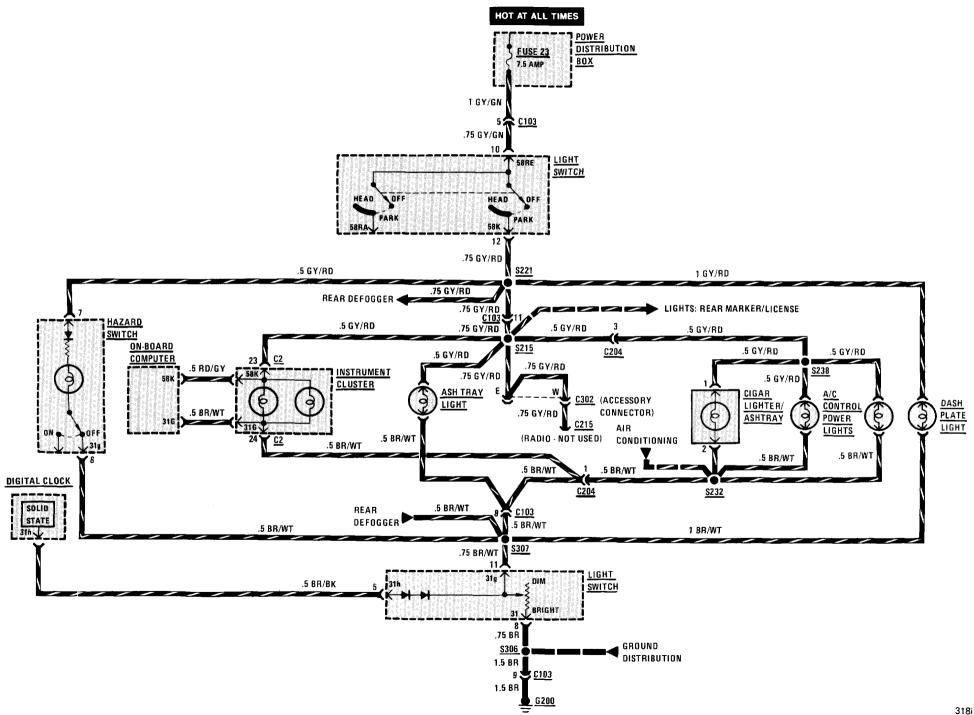


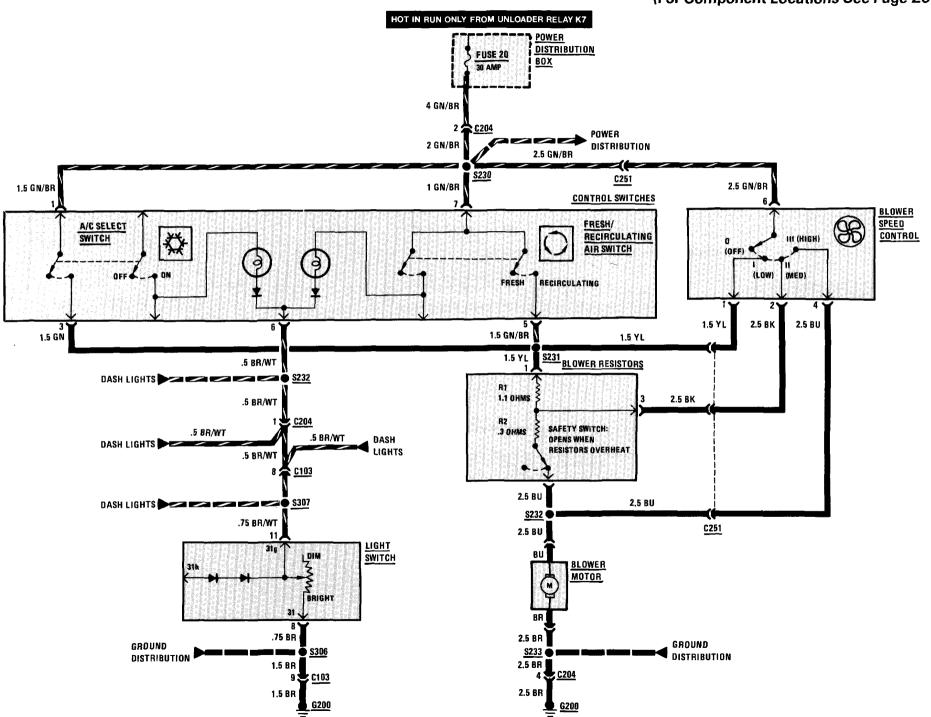


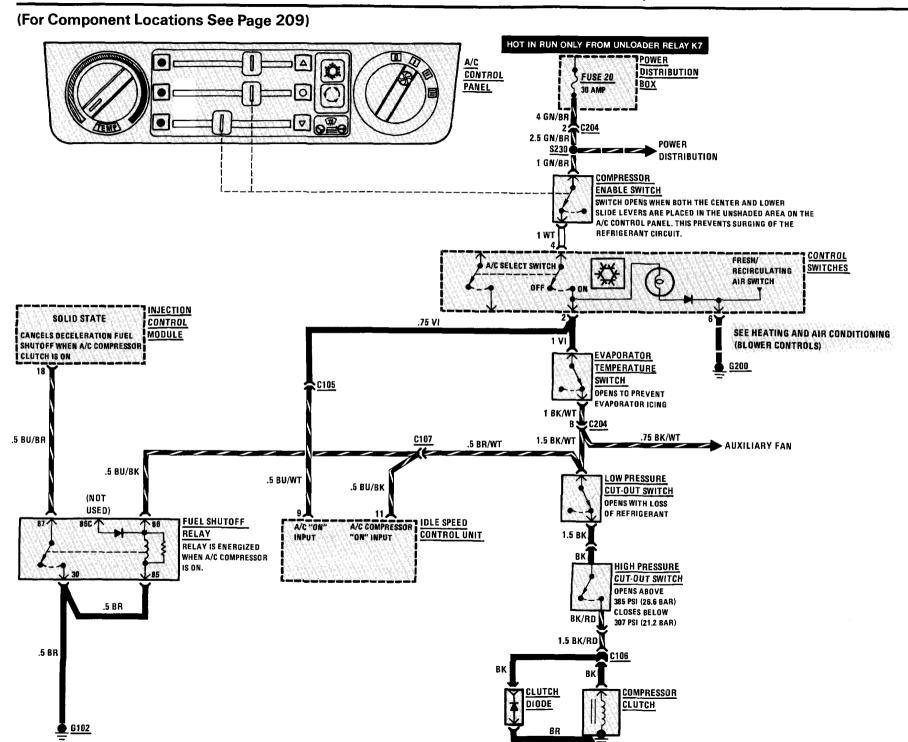




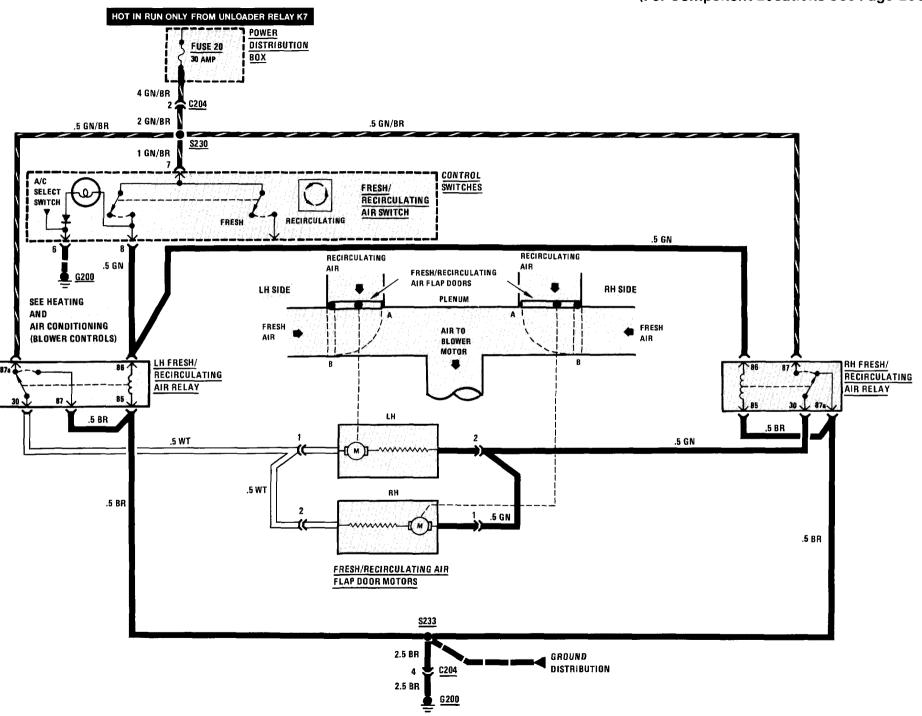


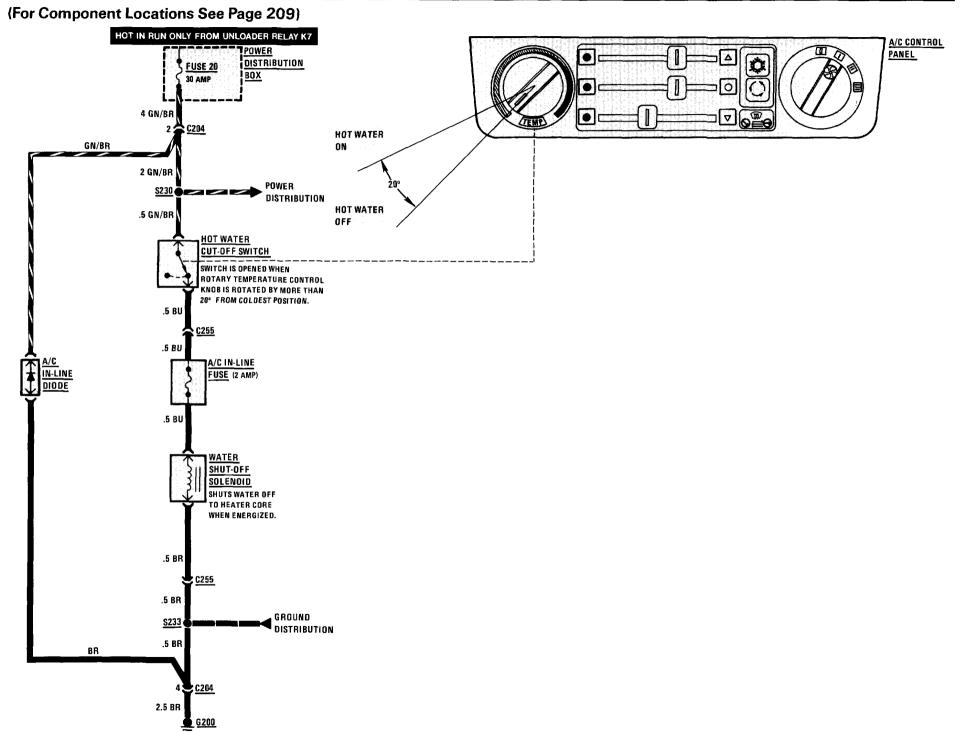




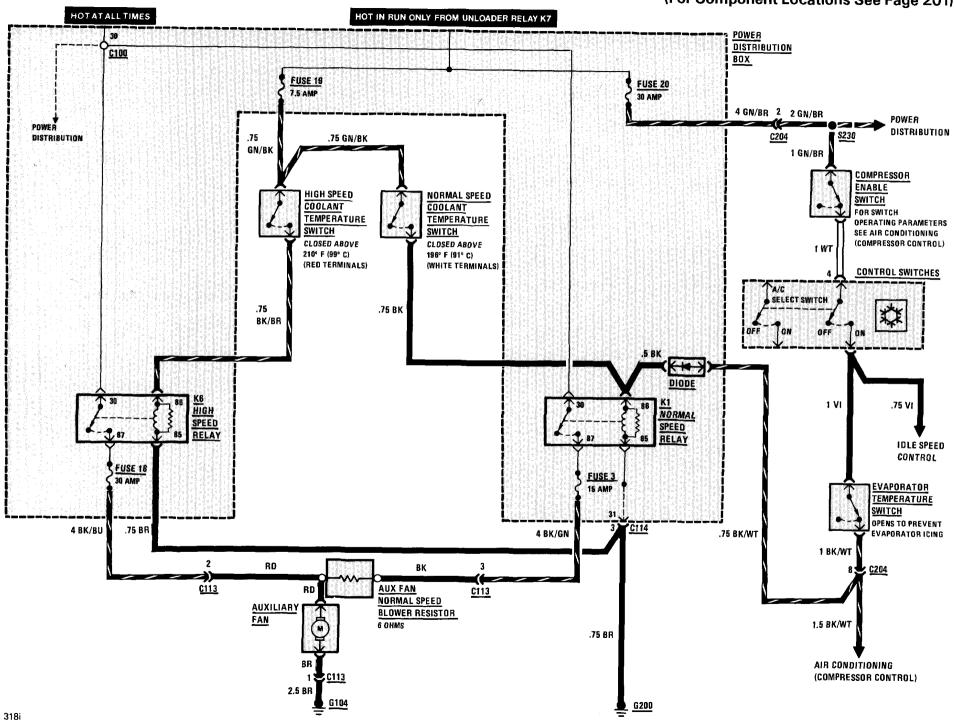


(For Component Locations See Page 209)

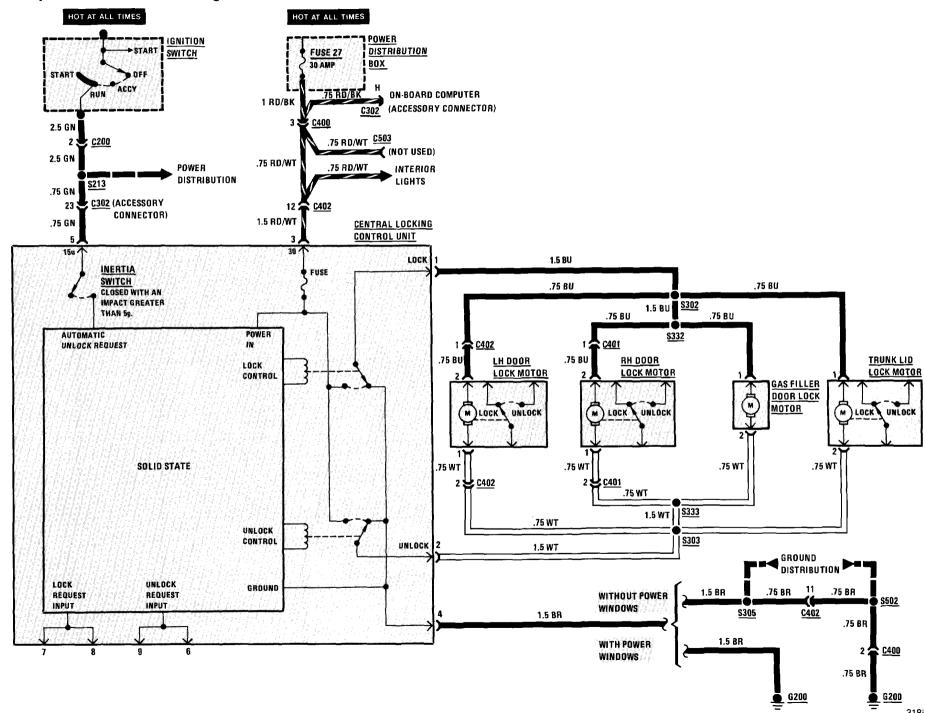




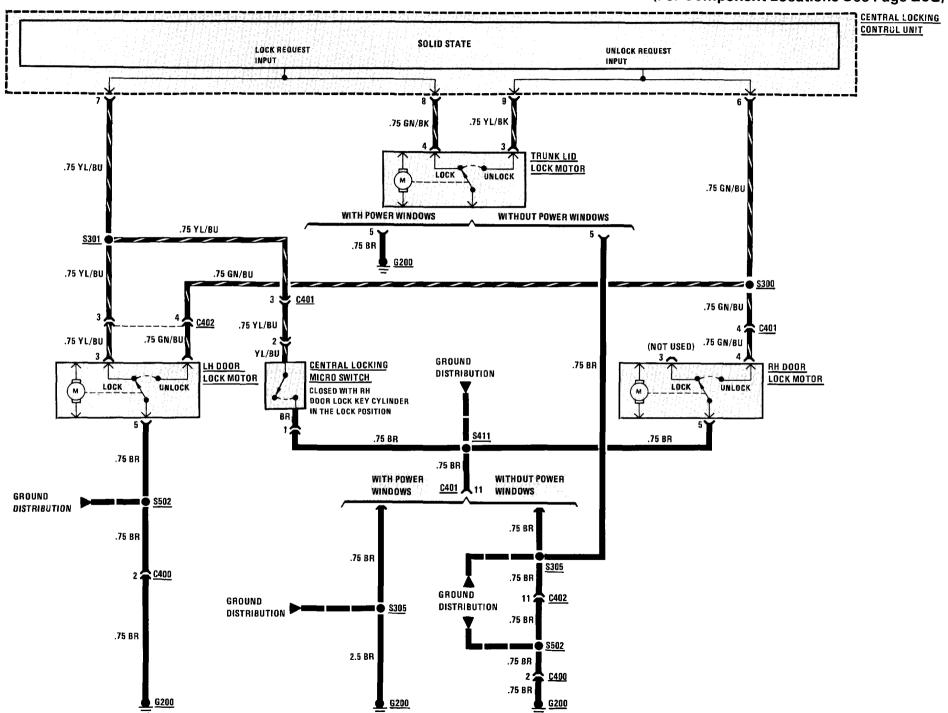
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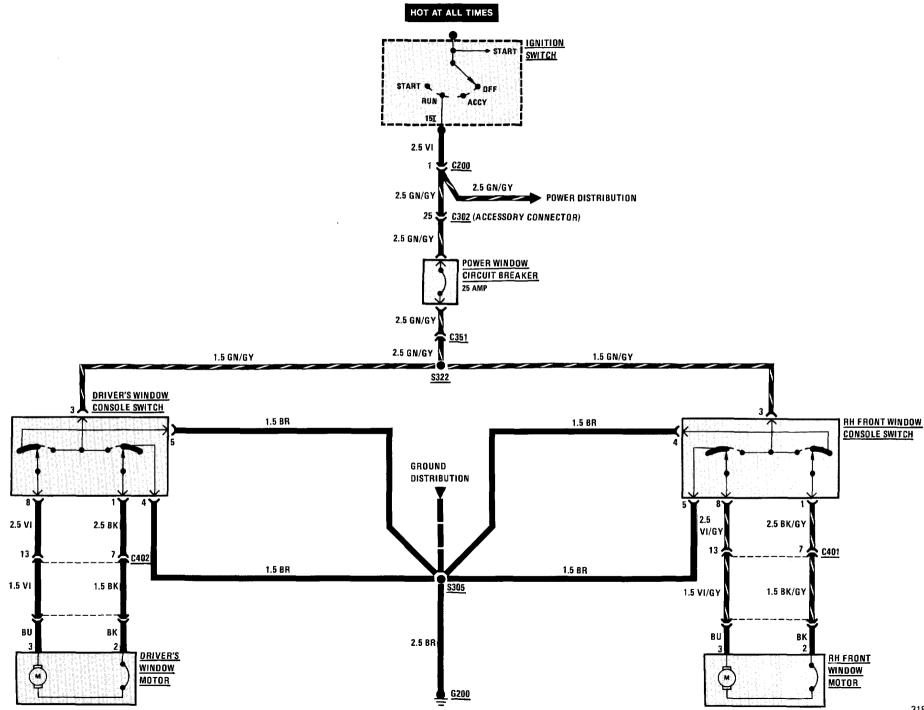
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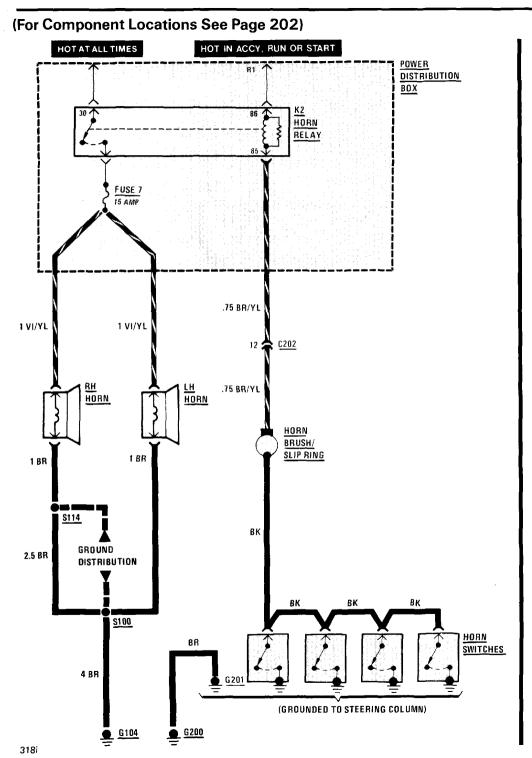


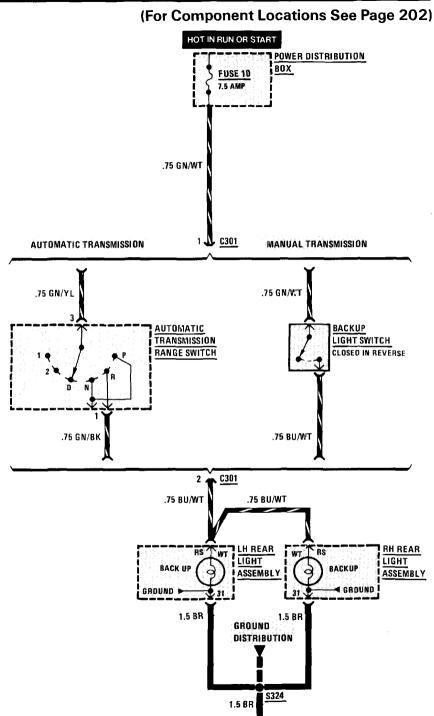
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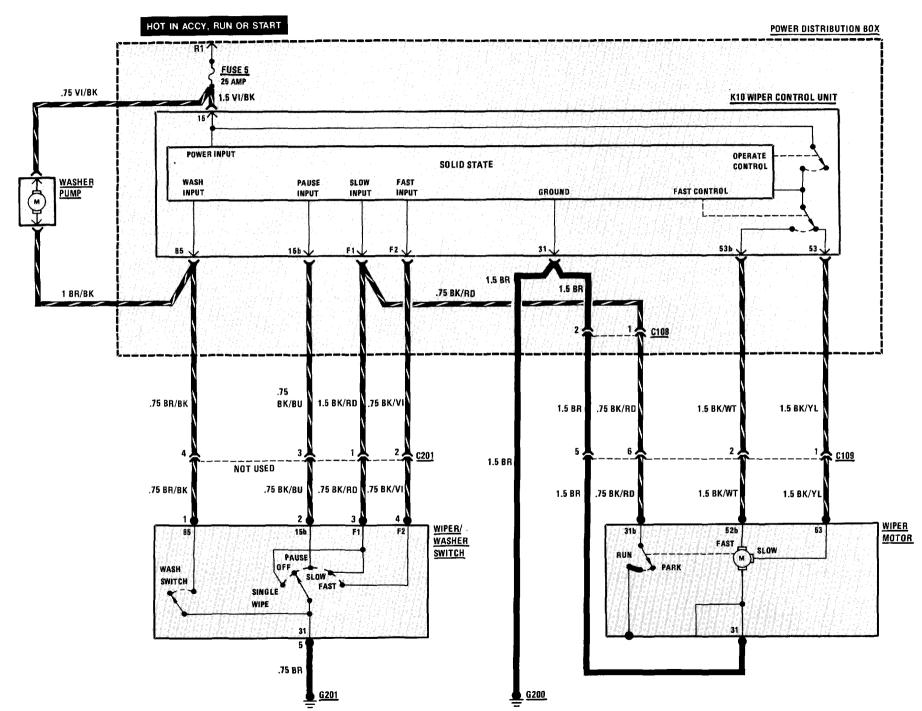
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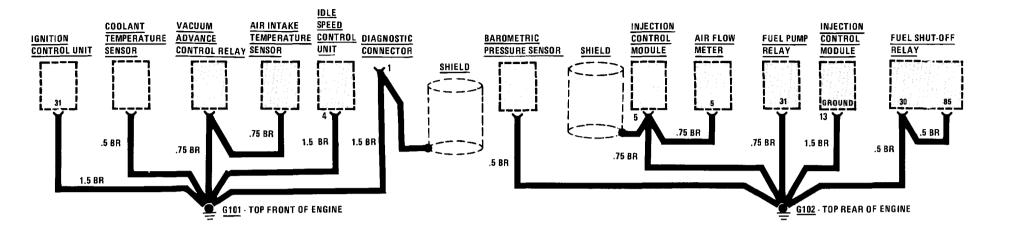


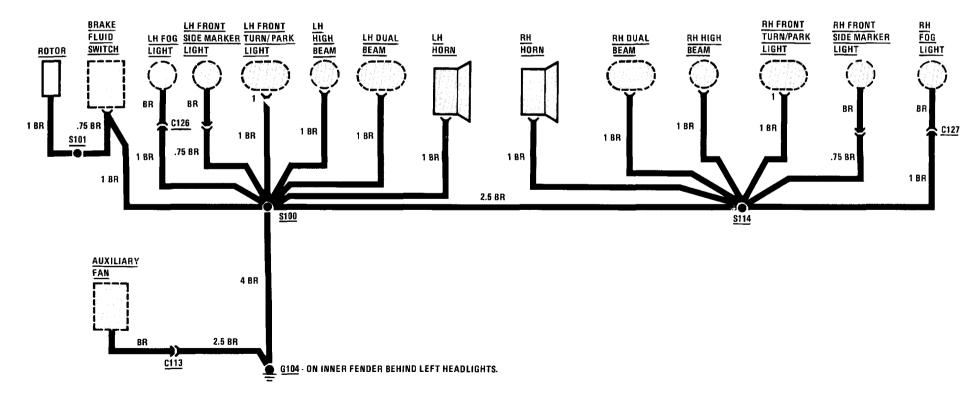


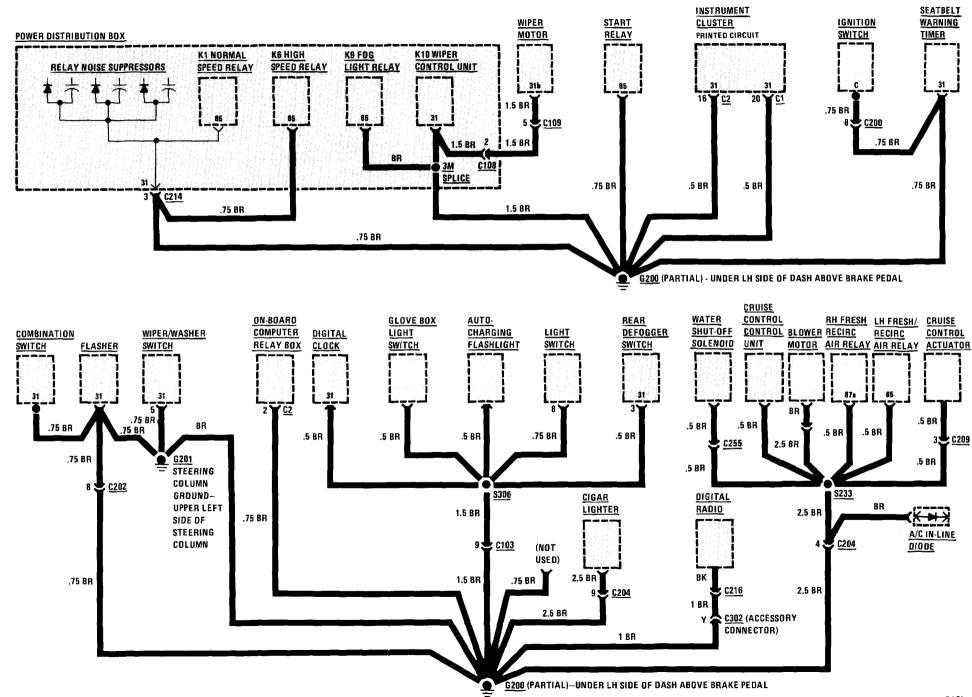


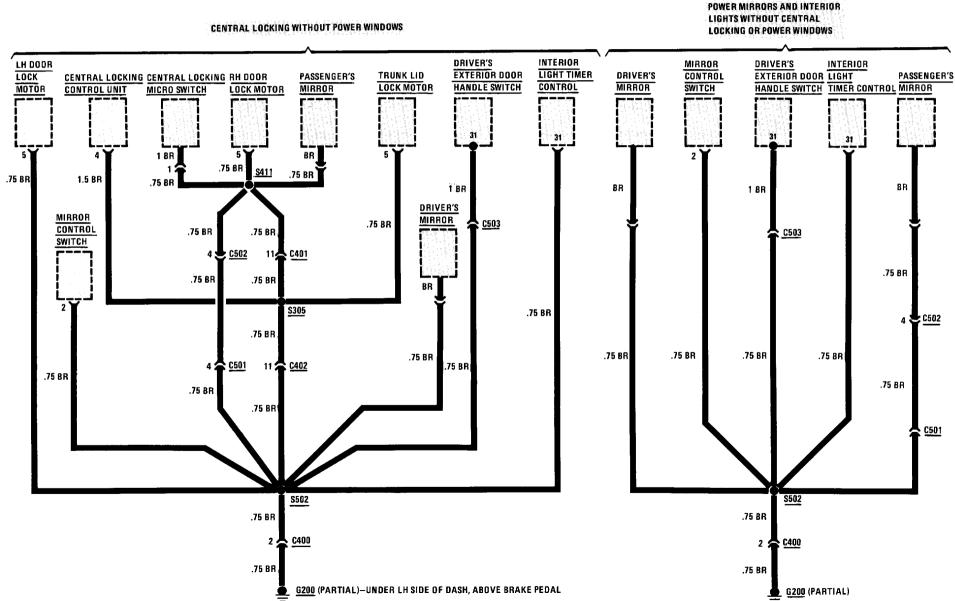
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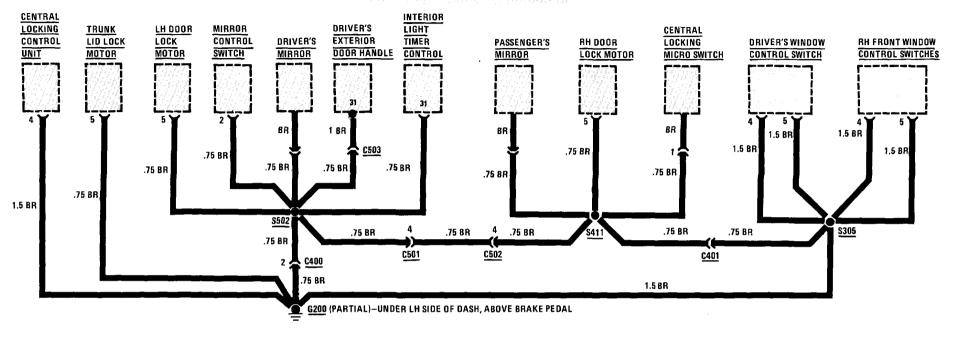


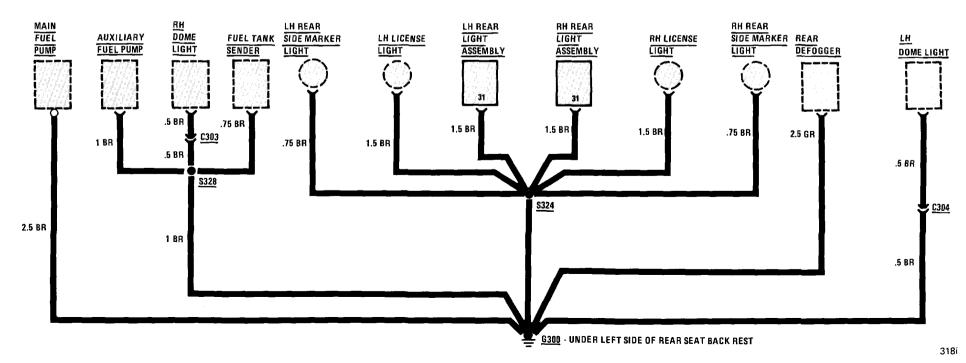






WITH CENTRAL LOCKING AND POWER WINDOWS





CIRCUITS USING C302 (ACCESSORY CONNECTOR)

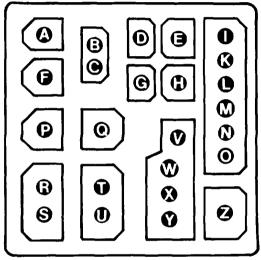


Figure 1-C302 (Accessory Connector) Front View—Under LH Side of Dash Ahead of Pedal Assembly

TERMINAL	CIRCUIT	TERMINAL	CIRCUIT
Α	Power Windows	N	Not Used
В	Not Used	0	Not Used
С	Not Used	Р	Not Used
D	Central Locking	Q	Not Used
Į E	Not Used	R	Cruise Control
F	Not Used	S	Cruise Control
G	Not Used	Т	Not Used
Н	On-Board Computer	U	Not Used
ı	Not Used	V	Radio
J	Not Used	W	Not Used
K	Not Used	Х	Radio
L	Not Used	Υ	Radio
М	Not Used	Z	Power Antenna

ACTIVE CHECK CONTROL

Active Check Control Unit	Above rear view mirror	
Brake Switch	Above brake pedal	214-1
Coolant Level Switch	On RH front wheel well, in coolant reservoir	217-4
Low Beam Check Relay	In power distribution box	
Oil Level Sensor	Top LH side of oil pan	
Power Distribution Box	At top rear of let front wheel well	201-1
Rear Lights Check Relay	In trunk above left wheel well	
Seatbelt Warning Timer	Under LH side of dash on electrical bracket	218-3
Washer Fluid Level Switch	In reservoir, behind RH headlights	201-
C101 (19 pins)	On power distribution box	201-
C103 (29 pins)	Under LH side of dash on body electrical bracket	
G104	On inner fender behind LH headlights	211-
G200	Under LH side of dash above brake pedal	210-2
G300	Behind LH side of rear seat	209-2

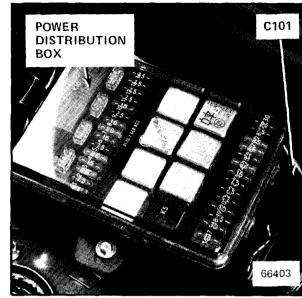


Figure 1 - Behind Left Front Shock Tower

AUXILIARY FAN

Compressor Enable Switch Behind A/C face plate Evaporator Temperature Switch . Left side of evaporator housing	7-2
i i	7-2
10 1 G 1 T	7-2
High Speed Temperature	7-2
Switch (318i) Bottom left rear of radiator	, _
High Speed Temperature Switch	
(325e)	3-6
Normal Speed Auxiliary Fan	
Blower Resistor On lower portion of auxiliary fan shroud 218	3-2
Normal Speed Temperature	
Switch (318i) Bottom left rear of radiator	7-2
Normal Speed Temperature	
Switch (325e) Top left side of radiator	
Power Distribution Box At top rear of left front wheel well	1-1
C113 (3 pins) Behind left headlights	1-1
C204 (9 pins) Under left side of dash, on steering column 210	
G104 On inner fender, behind left headlights 214	
G200 Under left side of dash, above brake pedal 210	J-2

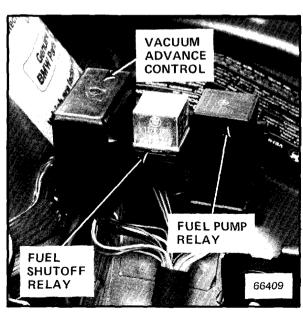


Figure 2 - Forward Of Left Front Shock Tower

BACK UP LIGHTS/HORNS

Automatic Trans. Range Switch .	At base of shift lever	
Backup Light Switch	On transmission	
Horn/Brush Slip Ring	In upper steering column	
Power Distribution Box	At top rear of left front wheel well	201-1
C202 (9 pins)	Under LH side of dash, on steering column	210-1
C301 (2 pins)	At base of shift lever	
	On inner fender behind left headlights	211-1
G300	Under left side of rear seat	209-2

BRAKE WARNING SYSTEM

Brake Fluid Level Switch	Left of engine, on brake fluid reservoir	208-1
gnition 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
C200 (9 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

CENTRAL LOCKING SYSTEM

Central Locking Control Unit	Below and behind left front speaker	
Central Locking Micro Switch	Rear of right door, at lock cylinder	214-2
Door Lock Motors	Rear part of each door	214-2
Gas Filler Door Lock Motor	Behind right rear inner wheel well	
Ignition Switch	Upper part of steering column	
Power Distribution Box	At top rear of left front wheel well	201-1
Trunk Lid Lock Motor	On trunk lock center support	
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	213-1
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



Figure 1 - Below Right Side Of Dash (318i)

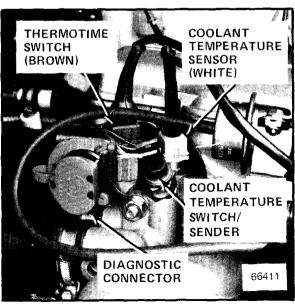


Figure 2 - Top Left Front Of Engine (318i)

CIGAR LIGHTER/DIGITAL CLOCK/GLOVE BOX LIGHT/AUTOCHARGING **FLASHLIGHT** Auto-Charging Flashlight In alove box Glove Box Light In right underdash cover, in glove box Power Distribution Box At top rear of left front wheel well...... 201-1 Upper left corner of driver's footwell 213-1 C204 (9 pins) 214-1 Under left side of dash, above brake pedal 210-2 **CRUISE CONTROL/STOP LIGHTS** Active Check Control Unit Above rear view mirror Auto. Trans. Range Switch At base of shift lever 214 - 1Above clutch pedal Cruise Control Actuator 216-2 Cruise Control Control Unit 218-6 Cruise Control Switch. On RH side of steering column Power Distribution Box 201-1 Rear Lights Check Relay In trunk above left wheel well Upper LH corner of driver's footwell 218-4 Start Relay......... C142 (1 pin) 218-3 Under LH side of dash above steering column . . Under LH side of dash near body electrical 218-4 Under left side of dash on steering column C202 (13 pins) 210-1 218-3 C209 (7 pins) Above brake pedal On LH side of steering column C301 (2 pins) 201-1 C302 (25 pins) Accy Connector. Under left side of dash on body 213-1 On inner fender, behind left headlights..... 211-1 Under left side of dash, above brake pedal 210-2 G201 (Steering Column Ground). Upper left side of steering column 209-2 **DASH LIGHTS** Power Distribution Box 201-1 Upper left corner of driver's footwell C103 (29 pins) 213-1

Under left side of dash, on steering column....

Upper left corner of driver's footwell

Under left side of dash, above brake pedal

210-1

213-1

210-2

C204 (9 pins)

C302 (25 pins) Accy Connector.

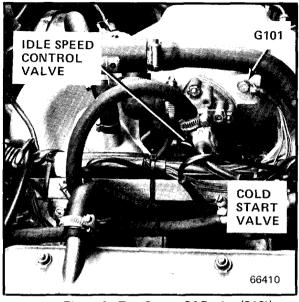


Figure 1 - Top Center Of Engine (318i)

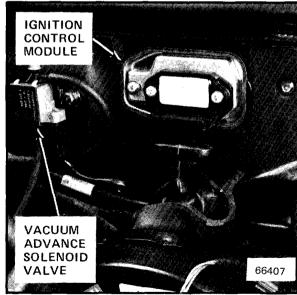


Figure 2 - Left Rear Corner Of Engine Compartment (318i)

ENGINE: 318i

CHARGING SYSTEM

Dash Warning Display	lop center of dash	
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
C101 (19 pins)	On power distribution box	201-1
C103 (29 pins)	Upper left corner of driver's footwell	213-1
C200 (9 pins)	Upper left side of dash, on steering column	210-1
G100	Behind right front shock tower	

FUEL CONTROL

Air Flow Meter	Behind air cleaner	204-1
Barometric Pressure Sensor	Mounted on air intake housing	205-1
Cold Start Valve	Top center of engine	203-1
Coolant Temperature Sensor	Front of engine, top of thermostat housing	202-2
Diagnostic Connector	Top front of engine	202-2
Fuel Pump Relay	On bracket in front of left front shock tower	201-2
Fuel Shutoff Relay	On bracket in front of left front shock tower	201-2
Ignition Coil	On right front wheel well	
Ignition Control Module	On bulkhead, above brake vacuum booster	203-2
Ignition Switch	Upper part of steering column	
Injection Control Module	Right side of dash, above glove box	202-1
Oxygen Sensor	RH rear of engine, in exhaust manifold	
Thermotime Switch	Front of engine, top of thermostat housing	202-2
Throttle Switch	Below rear of throttle body	
Vacuum Advance Control	On bracket in front of left front shock tower	201-2
C101 (19 pins)	On power distribution	201-1
G101	Top front of engine	203-1
G102	Top rear of engine	

IDLE SPEED CONTROL

0°C (32°F) Temp Switch	On bulkhead, behind distributor	207-1
Automatic Trans. Range Switch .	At base of shift lever	
Coolant Temperature		
Switch/Sender	Front of engine, top of thermostat housing	202-2
Diagnostic Connector	Top front of engine	202-2



Figure 1 - Left Front Corner Of Engine Compartment (318i)

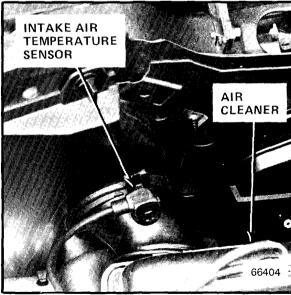


Figure 2 - Left Front Corner Of Engine Compartment (318i)

(continued)

Fuel Pump Relay	On bracket in front of left front shock tower	201-2
Idle Speed Control Unit	Right side of dash, above glove box	202-1
Idle Speed Control Valve	Top rear of engine	203-1
Ignition Coil	On right front wheel well	
Ignition Control Module	On bulkhead, above brake vacuum booster	203-2
Power Distribution Box	At top rear of left front wheel well	201-1
Throttle Switch	Below rear of throttle body	
C101 (19 pins)	On power distribution box	201-1
C105 (1 pin)	Right side of evaporator housing	
C131 (1 pin)	Right side of dash, above glove box	215-3
C301 (2 pins)	At base of shift lever	
G101	Top front of engine	203-1

IGNITION/FUEL DELIVERY

Auviliary Fuel Dump	In fuel took	000 1
Auxiliary Fuel Pump	In fuel tank	209-1
Diagnostic Connector	Top front of engine	202-2
Fuel Pump Relay	On bracket in front of left front shock tower	201-2
Idle Speed Control Unit	Right side of dash, above glove box On right front wheel well	202-1
Ignition Control Module Ignition Switch	On bulkhead, above brake booster	203-2
	Upper part of steering column	000 1
Injection Control Module	Right side of dash, above glove box	202-1
Main Fuel Pump	Under car, in front of left rear wheel	
On-Board Computer Module	In center console right of radio	
On-Board Computer Relay Box	Under LH side of dash, above hood release	218-4
Power Distribution Box	At top rear of left front wheel well	201-1
C101 (19 pins)	On power distribution box	201-1
C103 (23 pins)	Upper left corner of driver's footwell	213-1
C104 (3 pins)	Right side of dash, above glove box	215-3
C200 (9 pins)	Under left side of dash, on steering column	210-1
C212 (2 pins)	Under LH side of dash near accessory	2.0.
	connector	218-4
C235 (3 pins)	Under LH side of dash, near accessory connector	
G100	Behind right front shock tower	
G101	Top front of engine	203-1
G102	Top rear of engine	203-1
G300	Under left side of rear seat	209-2
	21.43, 13,13,140 01 1041 1041 1	2002

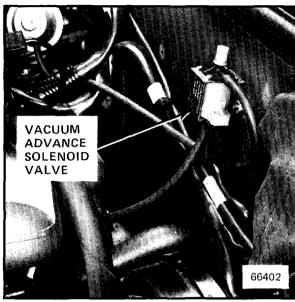


Figure 1 - Above Brake Vacuum Booster (318i)

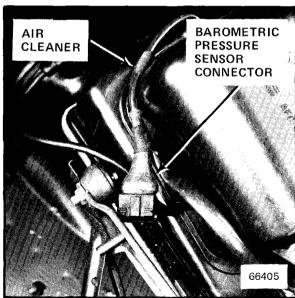


Figure 1 - Left Front Corner Of Engine Compartment (318i) (Manual Transmission Shown)

C103 (29 pins)

C200 (9 pins)

START At base of shift lever Automatic Trans, Range Switch. 202-2 Diagnostic Connector 201-1 Ignition Switch 201-1 At top rear of left front wheel well Power Distribution Box Upper left corner of driver's footwell 201-1 C101 (19 pins) Under left side of dash, on steering column... 210-1 C200 (9 pins)....... Behind instrument panel, above steering 208-2 At base of shift lever C301 (2 pins) Behind right front shock tower 210-2 Under left side of dash, above brake pedal... **VACUUM ADVANCE** Coolant Temperature Switch/Sender Front of engine, top of thermostat housing . . 202-2 202-2 Diagnostic Connector On bulkhead, above brake vacuum booster . . 203-2 Ignition Control Module 204-2 Intake Air Temp. Sensor In air intake, behind left headlights..... Power Distribution Box At top rear of left front wheel well 201-1 On bracket in front of left front shock tower . . . 201-2 Vacuum Advance Control Vacuum Advance Solenoid Valve On bulkhead, above brake vacuum booster . . 203-2 Vacuum Advance Unit On distributor C101 (19 pins) 201-1 203-1 ENGINE: 325e **CHARGING SYSTEM** In RH rear of trunk Battery Junction Block Engine compartment or RH bulkhead 217-3 Diagnostic Connector 216-3 Upper part of steering column At top rear of left front wheel well 201-1 Power Distribution Box C101 (19 pins) 201-1

Upper left corner of driver's footwell

Under left side of dash, on steering column . .

RH rear of trunk behind battery

213-1

210 - 1

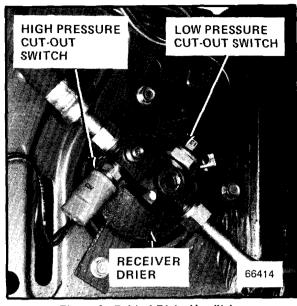


Figure 1 - Behind Right Headlights

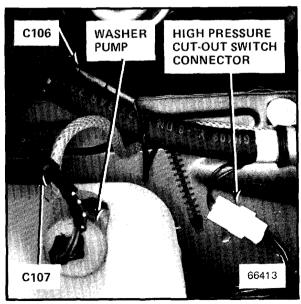


Figure 2 - Right Front Corner Of Engine Compartment

FUEL DELIVERY/FUEL CONTROL

Idle Speed Control Unit

0°C Temperature Switch

Oxygen Sensor Heater Relay . . .

Auxiliary Fuel Pump	housing	216-4 209-1
Barometric Pressure Sensor Battery Junction Block	On RH front of air cleaner housing Engine compartment on RH bulkhead Above intake manifold at each port	216-6 217-3
Fuel Injectors	On bracket in front of left front shock tower Upper part of steering column Under car, in front of left rear wheel	216-4
Main Fuel Pump	On bracket in front of left front shock tower	216-4
Motronic Control Unit	Under RH side of dash, above glove box In center console, right of radio	218-5
On-Board Computer Module On-Board Computer Relay Box	Under LH side of dash above hood release In exhaust pipe, near rear transmission mount	218-4
Oxygen Sensor	At top rear of left front wheel well On power distribution box RH side of dash above glove box Near RH rear of engine Near oxygen sensor Under LH side of dash on steering column Under LH side of dash near accessory connector RH side of dash above glove box On left side of engine block above starter Behind LH side of rear seat	201-1 213-1 218-5 217-5 218-1 210-1 218-4
IDLE SPEED CONTROL		
Automatic Transmission Range Switch	In center console at base of shift lever Front of engine on thermostat housing Front of engine on thermostat housing Lower LH side of transmission bell housing	217-1 217-1

Top rear of engine 217-4

Under RH side of dash, above glove box . . . 218-5

Under RH side of dash, above glove box 218-5

On bulkhead, left of battery junction block . . . 217-3

On bracket in front of left front shock tower . . 216-4



Figure 1 - Bulkhead Behind Distributor (318i)

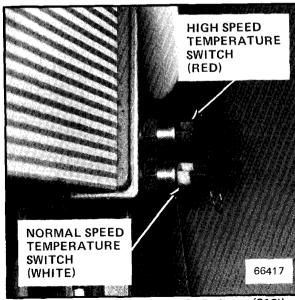


Figure 2 - Bottom Left Rear Of Radiator (318i)

(continued) At top rear of left front wheel well 201-1 Power Distribution Box LH side of engine, below center of Throttle Switch..... throttle body On power distribution box 201-1 C101 (19 pins) Right side of dash above glove box 212-1 Near automatic transmission range switch At base of shift lever C301 (2 pins) On LH side of engine block above starter IGNITION Top LH front of engine 216-3 Diagnostic Connector Forward of RH shock tower Upper part of steering column Ignition Switch Under RH side of dash above glove box 218-5 Lower LH side of transmission bell housing . . 217-5 Reference Point Sensor Above crankshaft vibration dampener 217-5 On power distribution box 201-1 C101 (19 pins) Under LH side of dash on steering column . . . 210-1 C200 (9 pins)...... On LH side of engine block above starter START Automatic Trans. Range Switch. At base of shift lever In RH rear of trunk Engine compartment on RH bulkhead. 217-3 Battery Junction Box Top RH side of intake manifold 217-4 Upper part of steering column lanition Switch At top rear of left front wheel well 201-1 Power Distribution Box Upper left corner of driver's footwell Top front of coolant thermostat housing 216-3 Thermo-Time Switch On power distribution box 201-1 C101 (19 pins) Under left side of dash, on steering column . . 210-1 C200 (9 pins)....... Behind instrument panel, above steering At base of shift lever C301 (2 pins) RH rear of trunk behind battery Under left side of dash, above brake pedal. . . 210-2

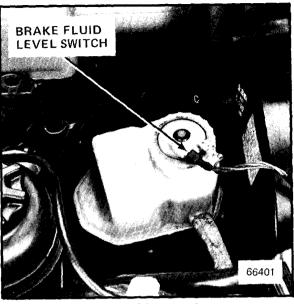


Figure 1 - LH Rear Of Engine Compartment



Figure 2 - Behind Right Side Of Center Console

HEADLIGHTS/FOG LIGHTS

Active Check Control Unit	Above rear view mirror	
Combination Switch	Upper left side of steering column	
Flasher	Upper part of steering column	
Fog Light Switch	On dash, left of steering column	
Power Distribution Box	At top of rear of left front wheel well	201-
C103 (29 pins)	Upper left corner of driver's footwell	213-
C126 (2 pins)	Behind left headlights	211-
C127 (2 pins)	Behind right headlights	211-2
C202 (13 pins)	Under left side of dash, on steering column	210-
G104	On inner fender, behind left headlights	211-
G200	Under left side of dash, above brake pedal	210-2

HEATING AND AIR CONDITIONING

A/C In-Line Diode	Left side of evaporator housing Left side of evaporator housing Behind center console, in evaporator housing Behind center console, in evaporator housing Near washer pump Left side of evaporator housing	
Fuel Shutoff Relay (318i) High Pressure Cut-Out Switch Fresh/Recir. Air Relays	On bracket in front of left front shock tower On receiver dryer	201-2 206-2
Fresh/Recir. Air Flap Door Motors Hot Water Cut-Off Switch	Behind A/C face plate Behind A/C face plate Behind A/C face plate	208-2
Idle Speed Control Unit Ignition Control Module Low Pressure Cut-Out Switch Power Distribution Box	Right side of dash, above glove box On bulkhead, above brake vacuum booster Behind right headlights	202-1 203-2 206-2 201-1
Water Shut-Off Solenoid	Left side of evaporator housing Upper left corner of driver's footwell Right side of evaporator housing Near washer pump Near washer pump Under left side of dash, on steering column Behind A/C face plate	213-1 215-3 206-1 206-1 214-1
C255	Left side of evaporator housing Under left side of dash, above brake pedal	210-2

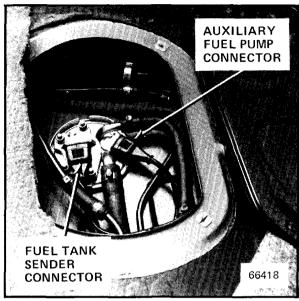


Figure 1 - Under Right Side Of Rear Seat

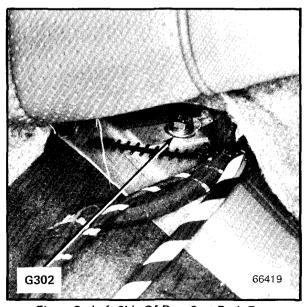


Figure 2 - Left Side Of Rear Seat Back Rest

(continued)

IGNITION KEY WARNING/SEATBELT WARNING

Active Check Control Unit (325e)	Above rear view mirror	
Chime Module	Mounted on left under dash cover	217-6
Dash Warning Display (318i)	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
C103 (29 pins)	Upper left corner of driver's footwell	213-1
C200 (9 pins)	Under left side of dash, on steering column	210-1
G200	Under left side of dash, above brake pedal	210-2

INTERIOR LIGHTS

Driver Exterior Door		
Handle Switch	In rear of left door	213-2
Interior Light Timer Control	Below left front speaker	
Power Distribution Box	At top rear of left front wheel well	
C302 (25 pins) Accy Connector.	Upper left corner of driver's footwell	213-1
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	215-2
C510 (1 pin)	Behind and above left front speaker	
G200	Under left side of dash, above brake pedal	210-2
G300	Upper left side of rear seat	209-2

LIGHTS: FRONT PARK/FRONT SIDE MARKER/TAIL/REAR MARKER/LICENSE/TRUNK

Active Check Control Unit (325e) Power Distribution Box	Above rear view mirror At top rear of left front wheel well	201-1
Rear Lights Check Relay (325e) . C103 (29 pins)	In trunk above left wheel well Upper left corner of driver's footwell On inner fender, behind left headlights Under left side of rear seat	211-1



Figure 1 - Under Left Side Of Dash

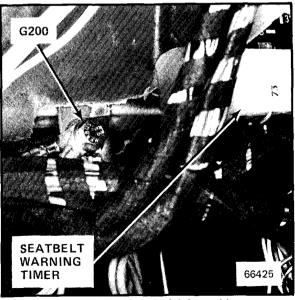


Figure 2 - Above Pedal Assembly

LIGHTS: TURN/HAZARD WARNING

Combination Switch	Upper left side of steering column	
Flasher	Upper part of steering column	
Hazard Switch	In center console, above radio	215-1
Power Distribution Box	At top rear of left front wheel well	201-1
C103 (29 pins)	Upper left corner of driver's footwell	213-1
C200 (9 pins)	Under left side of dash, on steering column	210-1
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	
G300	Under left side of rear seat	209-2

ON-BOARD COMPOTER		
Battery (318i)	Behind RH front shock tower In rear of trunk	
Battery Junction Block (325e)	Engine compartment on RH bulkhead	217-3
B/C Horn Diode	Near LH front shock tower	216-1
Board Computer Horn	Near LH front shock tower	216-1
Chime Module	Mounted on left under dash cover	217-6
Combination Switch	Upper left side of steering column	
Fuel Pump Relay (318i)	On bracket in front of left front shock tower	201-2
Fuel Tank Sender	Top of fuel tank	209-1
Ignition Switch	Upper part of steering column	
Injection Control Module	On bulkhead above brake vacuum booster	202-1
Main Relay (325e)	On bracket in front of left front shock tower	216-4
Motronic Control Unit	Under RH side of dash, above glove box	218-5
On-Board Computer Module	In center console right of radio	
On-Board Computer Relay Box	Under LH side of dash above hood release	218-4
Outside Temperature Sensor	Near LH fog light	
Power Distribution Box	At top rear of left front wheel well	201-1
C103 (29 pins)	Under LH side of dash on steering column	213-1
C200 (9 pins)	Under LH side of dash on steering column	210-1
C212 (2 pins)	Under LH side of dash near accessory connector	218-4
C224 (2 pins)	Under LH side of dash near accessory connector	218-4
C235 (3 pins)	RH side of dash above glove box	
C302 (3 pins)	Under LH side of dash on body	
	electrical bracket	213-1
C400 (6 pins)	Behind LH front speaker	
G100 (318i)	Behind right front shock tower	
G100 (325e)	RH rear of trunk behind battery	

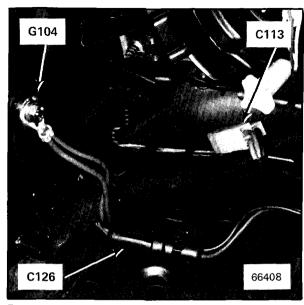


Figure 1 - Behind Left Headlights

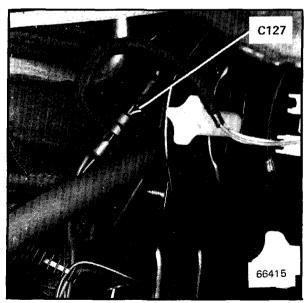


Figure 2 - Behind Right Headlights

212 COMPONENT LOCATIONS

(continued) G102 (318i)	Top rear of engine On left side of engine block, above starter Under left side of dash above brake pedal Behind LH side of rear seat	210-2 209-2
POWER DISTRIBUTION		
Battery (318i)	Behind RH front shock tower In RH rear of trunk Engine compartment on RH bulkhead Top front of engine Top LH front of engine Upper part of steering column At top rear of left front wheel well Under left side of dash, on steering column Upper left corner of driver's footwell Behind right front shock tower RH rear of trunk behind battery	217-3 202-2 216-3 201-1 201-1 213-1
G200	Under left side of dash, above brake pedal	210-2
POWER MIRRORS		
POWER MIRRORS Mirror Control Switch	On driver's door, above arm rest At top rear of left front wheel well Behind and above left front speaker Upper left corner of driver's footwell Above and behind right rear speaker Under left side of dash, above brake pedal	201-1 213-1 215-2 210-2
Mirror Control Switch Power Distribution Box C400 (6 pins)	At top rear of left front wheel well Behind and above left front speaker Upper left corner of driver's footwell	213-1 215-2
Mirror Control Switch Power Distribution Box C400 (6 pins) C501 (4 pins) C502 (4 pins) G200	At top rear of left front wheel well Behind and above left front speaker Upper left corner of driver's footwell	213-1 215-2 210-2

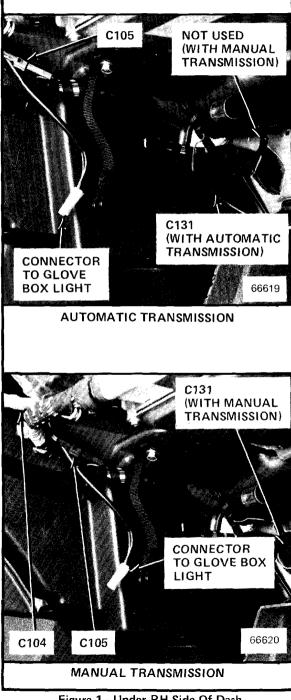


Figure 1 - Under RH Side Of Dash

RADIO/POWER ANTENNA Power Distribution Box C250 (7 pins)....... C302 (25 pins) Accy Connector.

201-1 At top rear of left front wheel well Behind right side of center console 208-2 Upper left corner of driver's footwell 213-1 Under left side of dash, above brake pedal 210-2

On power antenna mounting bracket

REAR DEFOGGER

1

3

Dash Warning Display (318i)	Top center of dash	
Power Distribution Box	At top rear of left front wheel well	201-
	Upper left corner of driver's footwell	
	Under left side of dash, above brake pedal	
	Under left side of rear seat	

SERVICE INTERVAL INDICATOR

Coolant Temperature		
Switch/Sender (318i)	Front of engine, top of thermostat housing	202-2
Coolant Temperature		
Sender (325e)	Front of engine on thermostat housing	217-1
Diagnostic Connector (318i)	Top front of engine	202-2
Diagnostic Connector (325e)	Top LH front of engine	216-3
Ignition Control Module (318i)	On bulkhead, above brake vacuum booster	203-2
Injection Control Module (318i) .	Right side of dash, above glove box	202-1
Motronic Control Unit	Under RH side of dash, above glove box	218-5
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	213-1
C104 (3 pins)	Right side of dash, above glove box	215-3
G200	Under left side of dash, above brake pedal	210-2

SPEEDOMETER/INDICATORS/GAUGES

Active Check Control Unit (325e) Coolant Temperature	Above rear view mirror	
Switch/Sender (318i)	Front of engine, on thermostat housing	202-2
Coolant Temperature Sender (325e)	Front of engine on thermostat housing	217-1
Dash Warning Display (318i)	Top center of dash	

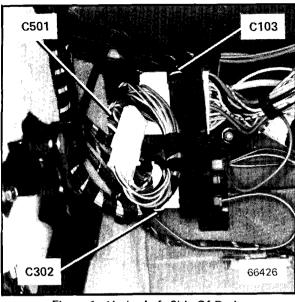


Figure 1 - Under Left Side Of Dash Ahead Of Pedal Assembly

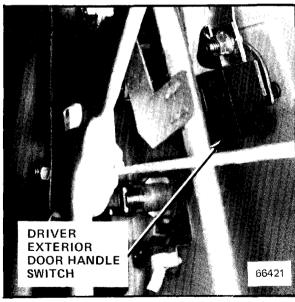


Figure 2 - Rear Of Left Door

214 COMPONENT LOCATIONS

(continued)		
Diagnostic Connector (318i)	Top front of engine	202-2
Diagnostic Connector (325e)	Top LH front of engine	216-3
Fuel Tank Sender	Top of fuel tank	209-1
Ignition Switch	Upper part of steering column	
Oil Pressure Switch (318i)	On top rear of cylinder head	
Oil Pressure Switch (325e)	Above oil filter	
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	213-1
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

SUNROOF

Drive Motor	Behind header above rear view mirror	
Limit Switch	Behind header above rear view mirror	
Motor Relay	Behind header above rear view mirror	
Sunroof Switch	Above rear view mirror	
Power Distribution Box	At top rear of left front wheel well	
C302 (25 pins) Accy Connector.	Upper LH corner of driver's footwell	213-1
G600	Near sunroof switch	

TACHOMETER/FUEL ECONOMY GAUGE

Ignition Coil	Forward of RH shock tower	
Ignition Control Module (318i)	On bulkhead, above brake vacuum booster	203-2
Injection Control Module (318i) .	Right side of dash, above glove box	202-1
Motronic Control Unit (325e)	Under RH side of dash, above glove box	218-5
Power Distribution Box	At top rear of left front wheel well	201-1
C103 (29 pins)	Upper left corner of driver's footwell	213-1
C104 (3 pins)	Right side of dash, above glove box	215-3
C235 (3 pins)	RH side of dash above glove box	
G200	Under left side of dash, above brake pedal	210-2

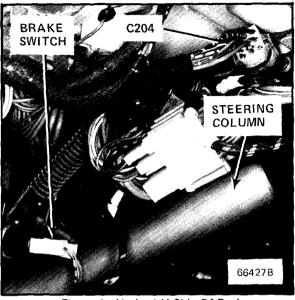


Figure 1 - Under LH Side Of Dash

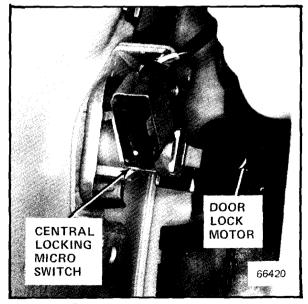


Figure 2 - Rear Of Right Door

WIPER/WASHER

201-1
206-2
210-1
216-5
217-2
210-2

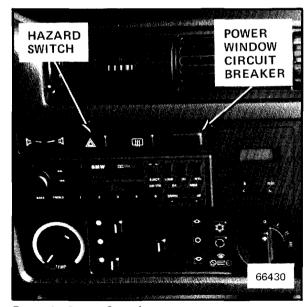


Figure 1 - Center Console

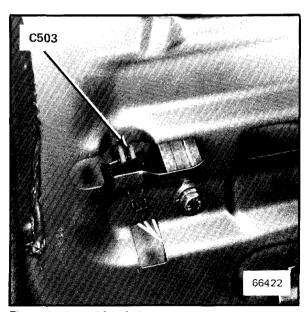


Figure 2 - Rear Of Left Door

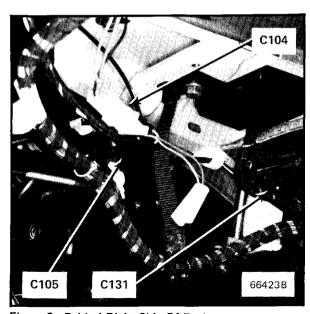


Figure 3 - Behind Right Side Of Dash

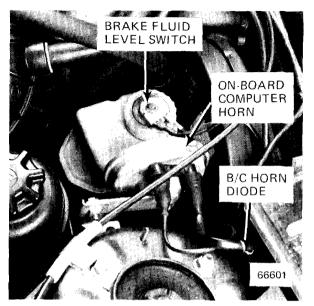


Figure 1—LH Rear of Engine Compartment (325)

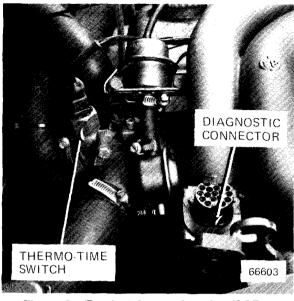


Figure 3—Top Left Front of Engine (325e)

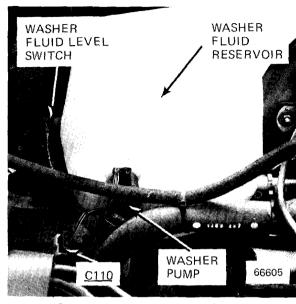


Figure 5 - Behind RH Lights (325)



Figure 2—Behind LH Headlights

NOTE THE POSITION OF THE RELAY MAY BE INTERCHANGED. CHECK RELAY WIBE COLORS FOR POSITIVE IDENTIFICATION.

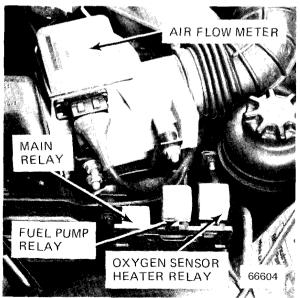


Figure 4 - Forward of LH Shock Tower (325)

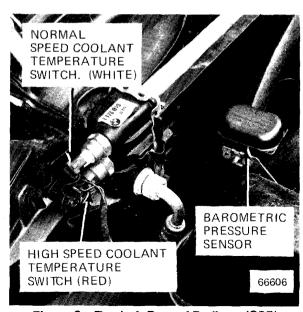


Figure 6 — Top Left Rear of Radiator (325)

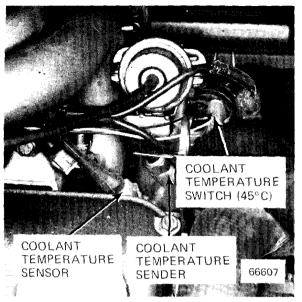


Figure 1—Top Front of Engine (325)

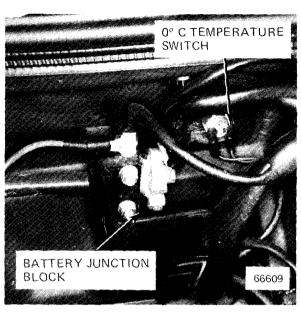


Figure 3—RH Side of Engine Bulkhead (325)

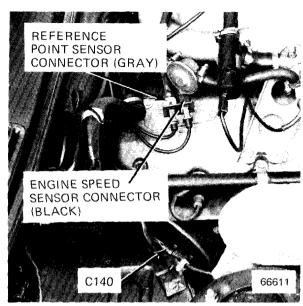


Figure 5-RH Rear Side of Engine (325)

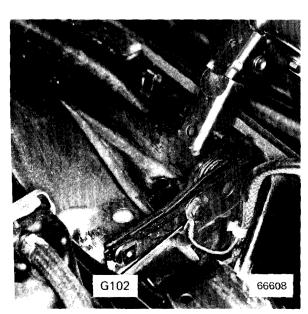


Figure 2-At RH Hood Hinge (325)

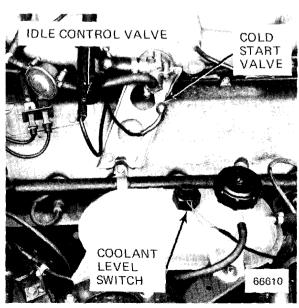


Figure 4—RH Rear Side of Engine (325)

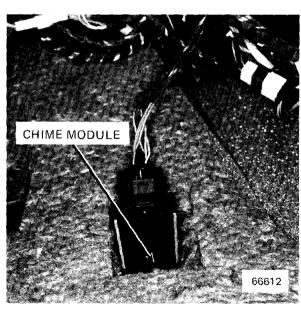


Figure 6-LH Under Dash Cover Lowered

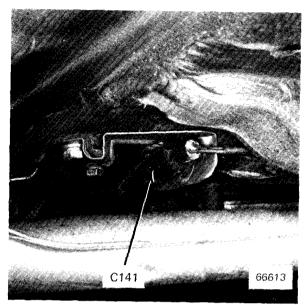


Figure 1—Under RH Side of Car Below Passenger Side



Figure 3—Under LH Side of Dash

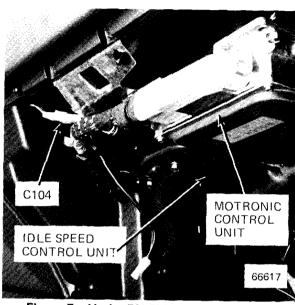


Figure 5—Under RH Side of Dash Above Glovebox (325)

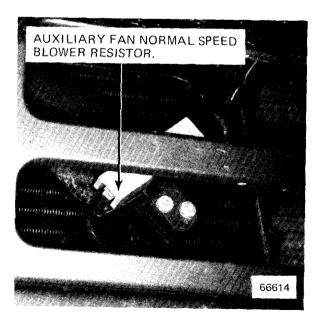


Figure 2—Front of A/C Condensor

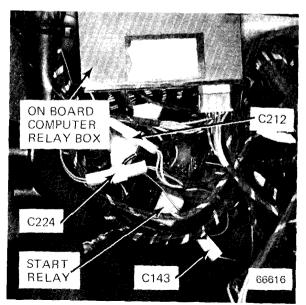


Figure 4—Under LH Side of Dash Near Hood Release Lever



Figure 6—Under RH Side of Dash Above Glovebox (325)