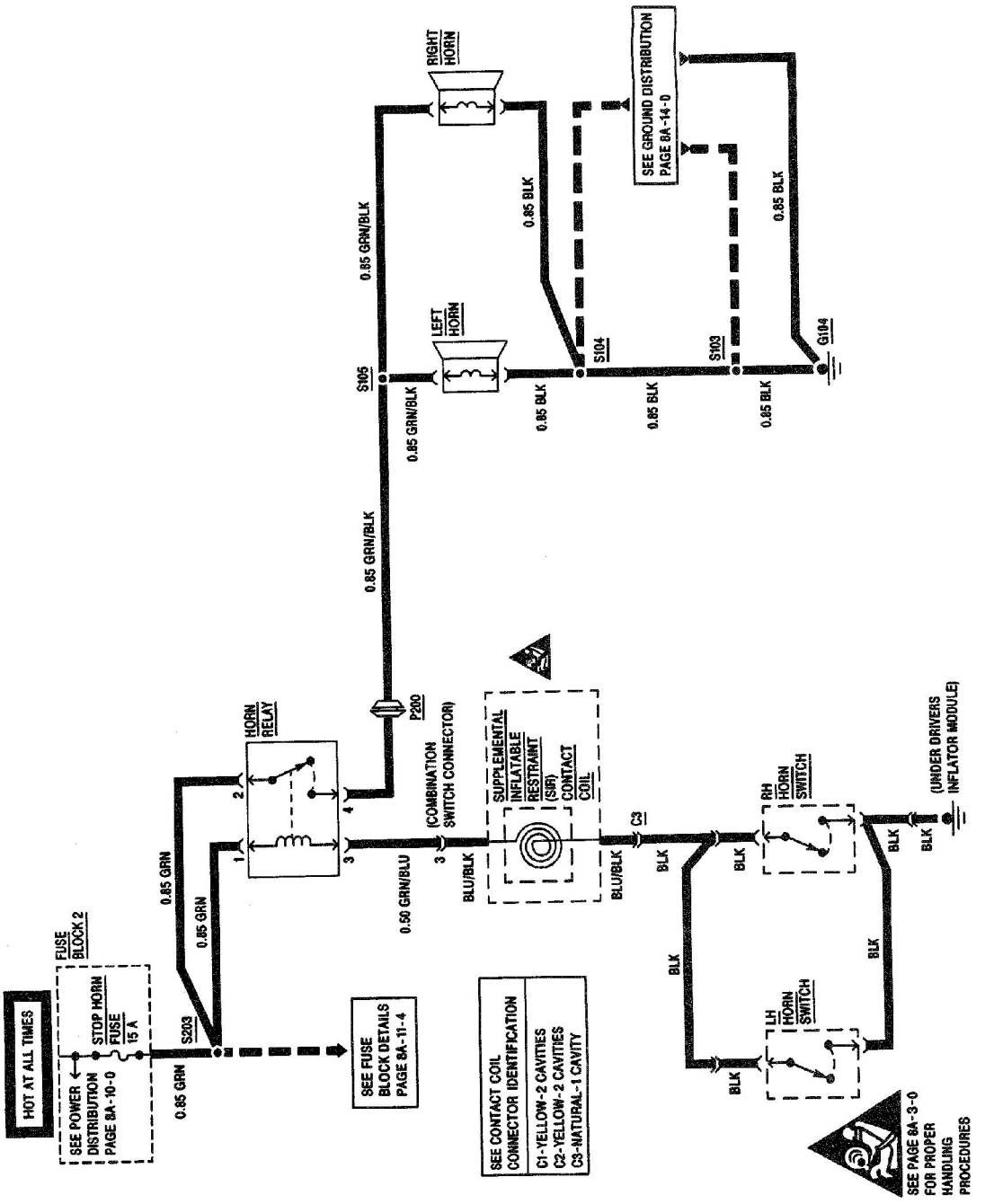
HORN



EJT002840

COMPONENT	LOCATION	201-PG	FIG.	CONN
Fuse Block 2	Under LH I/P	06	A	
Horn Relay	RH I/P, behind I/P Compartment in front of Blower Motor	06	A	202-15A1
Left Horn	Between Grille and Radiator			
LH Horn Switch	LH side of Steering Wheel			
Right Horn	Between Grille and Radiator			
RH Horn Switch	RH side of Steering Wheel			
Supplemental Inflatable Restraint (SIR) Contact Coil	In Combination Switch			
C3 (1 Cavity)	Combination Switch to Horn Switches, in Steering Wheel			
G104	RH Front Inner Fender near Washer Fluid Reservoir	02	A	
P200	LH Engine Compartment on Bulkhead, near Brake Master Cylinder	04	A	
S103	Main Harness, behind RH Headlamps			
S104	Main Harness, behind RH Headlamps			
S105	Engine Harness, at Bulkhead near Distributor			
S203	Main Harness, behind I/P left of Steering Column			

TROUBLESHOOTING HINTS

1. Check the STOP HORN Fuse by observing stoplamp operation.
2. Check that the HORN RELAY connector is securely attached to the HORN RELAY.
3. Check that G104 is clean and tight.

SYSTEM DIAGNOSIS

TEST	RESULT	ACTION
1. Press and release LH and RH HORN SWITCHES.	HORNS sound and stop.	All systems diagnosed in this Section are functioning normally.
	HORNS do not sound.	GO to step 2.
	HORNS do not stop.	GO to step 9.
	Only LEFT or RIGHT HORN sounds.	GO to step 11.
	LH or RH HORN SWITCH does not function.	Replace HORN SWITCHES.
2. Disconnect HORN RELAY connector. Connect a fused jumper across HORN RELAY connector cavities 2 and 4.	HORNS sound.	GO to step 3.
	HORNS do not sound.	GO to step 6.
3. Remove jumper. Connect a digital multimeter from HORN RELAY connector cavity 3 to chassis ground. Measure resistance while pressing LH and RH HORN SWITCHES.	Less than 0.5 ohms.	GO to step 4.
	More than 0.5 ohms.	GO to step 5.

HORN

SYSTEM DIAGNOSIS

TEST	RESULT	ACTION
4. Connect a test lamp from HORN RELAY connector cavity 1 to chassis ground.	Test lamp lights.	Replace HORN RELAY.
	Test lamp does not light.	Repair open in GRN wire between S203 and HORN RELAY connector.
5. Backprobe COMBINATION SWITCH connector with a digital multimeter from cavity 3 to chassis ground. Measure resistance while pressing HORN SWITCHES.	Less than 0.5 ohms.	Repair open in GRN/BLU wire between HORN RELAY and COMBINATION SWITCH connector.
	More than 0.5 ohms.	Check for an open in BLU/BLK or BLK wire between HORN SWITCHES and COMBINATION SWITCH. If OK, replace HORN SWITCHES.
6. Disconnect HORN connectors. Connect a test lamp from each HORN connector (GRN/BLK wire) to chassis ground.	Test lamp lights.	GO to step 7.
	Test lamp does not light.	GO to step 8.
7. Connect a digital multimeter from each HORN connector (BLK wire) to chassis ground. Measure resistance.	More than 1.0 ohm.	Repair open in BLK ground wire.
	Less than 1.0 ohm.	Replace HORN.
8. Remove jumper. Connect a digital multimeter from HORN RELAY connector cavity 4 to each HORN connector (GRN/BLK wire). Measure resistance.	More than 1.0 ohm.	Repair open in GRN/BLK wire between HORN RELAY and HORNS.
	Less than 1.0 ohm.	Repair open in GRN wire between FUSE BLOCK 2 and HORN RELAY connector.
9. Disconnect HORN RELAY connector.	HORNS continue to sound.	Repair short to voltage in GRN/BLK wire.
	HORNS stop.	GO to step 10.
10. Connect a digital multimeter from HORN RELAY connector cavity 3 to chassis ground. Measure resistance.	less than infinite.	Check for a short to ground in GRN/BLU, BLU/BLK or BLK wire between HORN RELAY and HORN SWITCHES. If OK, replace HORN SWITCHES.
	Infinite.	Replace HORN RELAY.
11. Connect a digital multimeter from S105 to suspect HORN connector (GRN/BLK wire). Measure resistance.	Less than infinite.	GO to step 12.
	Infinite.	Repair open in GRN/BLK wire between splice and suspect HORN.
12. Connect a digital multimeter from S104 to suspect HORN connector (BLK wire). Measure resistance.	Less than infinite.	Replace suspect HORN.
	Infinite.	Repair open in BLK wire between S104 and suspect HORN.

COMPONENT REPLACEMENT INFORMATION

For component replacement procedures, refer to the section listed below.

Horn ..... Section 8B
Horn Relay ..... Section 8B
Horn Switches ..... Section 3F4

CIRCUIT OPERATION

Battery voltage is applied to the HORN RELAY at all times through the STOP HORN Fuse. When the LH or RH HORN SWITCH is pressed, the HORN RELAY coil is grounded. This action energizes the HORN RELAY, the relay contacts close and voltage is applied to the LEFT and RIGHT HORNS. Since the HORNS are permanently grounded at G104, the HORNS will continue to sound as long as the LH or RH HORN SWITCHES are pressed.