

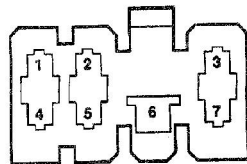
## AUDIBLE WARNINGS





## AUDIBLE WARNINGS

### AUDIO ALARM MODULE CONNECTOR



NATURAL

EJS005876

### WIRING DETAIL LEGEND

CAVITY	WIRE COLOR	CIRCUIT
1	YEL/RED	Seat Belt Signal
2	RED/YEL	Lights On Signal
3	—	Not Used
4	BLU/BLK	Ignition Key Signal
5	BLK/ WHT	Ignition On Signal
6	BLK/BLU	Door Open Signal
7	BLK	Ground - G200

COMPONENT	LOCATION	201-PG	FIG.	CONN
Audio Alarm Module.....	Behind RH I/P near RH Front Speaker .....			76-02
Combination Switch.....	On Steering Column .....	06	A	202-00A1
Fuse Block 2 .....	Under LH I/P.....	06	A	
Headlamp Relay 2.....	Center I/P, behind Blower Speed Selector Switch.....	06	A	202-15A3
Ignition Key Warning Switch....	RH side of Steering Column, on Ignition Switch .....	06	A	
Instrument Panel Cluster Assembly .....	LH I/P .....	07	A	
C3 (13 Terminals) .....	I/P Harness to I/P Cluster Assembly, behind I/P Cluster Assembly .....	07	A	81-05
Junction Connector 1 (20 Cavities).....	I/P Harness, Center of I/P, left of Radio			
Junction Connector 2 (20 Cavities).....	I/P Harness, LH side of I/P, behind Illumination Controller			
Junction Connector 3 (10 Cavities).....	I/P Harness, RH side of I/P, near RH Front Speaker			
LH Horn .....	Between Grille and Radiator			
LH Front Door Jamb Switch (4-Door).....	Lower LH "B" Pillar .....	09	A	
Seat Belt Switch.....	On floor of Passenger Compartment in Driver Seat Belt Latch			
C200 (22 Cavities).....	Main Harness to I/P Harness, LH I/P near Fuse Block 2.....	06	A	202-06A1
C201 (16 Cavities).....	Main Harness to I/P Harness, LH I/P near Fuse Block 2.....	06	A	202-07A1
C211 (16 Cavities).....	I/P Harness to Floor Harness, LH I/P, near "A" Pillar.....	07	A	202-09A1
C301 (6 Cavities) (2-Door) .....	Floor Harness to Sub-Floor Harness, behind LH Rear Passenger Compartment Trim Panel .....			202-15B3
G200.....	Behind LH I/P, above Fuse Block 2 .....	06	A	
G300.....	LH Rear Passenger Compartment, behind Trim Panel			
P300 (2-Door).....	LH "A" Pillar, under I/P, behind LH Kick Panel.....	08	A	
S200 .....	I/P Harness, near I/P connector C3 breakout			
S205 .....	I/P Harness, behind center of I/P			
S210 .....	Main Harness, at Bulkhead near Front Wiper Motor			
S212 .....	Main Harness, left of Steering Column			
S216 .....	Main Harness, left of Steering Column			
S220 .....	Main Harness, near I/P left of Steering Column			
S221 .....	I/P Harness near, C201 breakout			
S227 .....	Main Harness, near Fuse Block 2			
S229 .....	Main Harness, near I/P left of Steering Column			
S231 .....	Main Harness, RH side of I/P, near Blower Speed Selector Switch			

## 8A - 76 - 4 ELECTRICAL DIAGNOSIS

### AUDIBLE WARNINGS

#### COMPONENT

#### LOCATION

201-PG FIG. CONN

S232 .....	Main Harness, RH side of I/P, near Blower Speed Selector Switch
S233 .....	Floor Harness 1, near LH Rear Wheelhousing
S262 .....	Main Harness, left of Steering Column
S300 .....	Floor Harness, near LH Door Jamb Switch connector breakout
S301 .....	Floor Harness, near LH Seat Belt Switch connector breakout
S404 .....	Floor Harness 1, near LH Rear Combination Lamp
S405 .....	Rear Door Harness, near License Plate Lamps
S406 .....	Rear Door Harness, near LH Rear Door Jamb Switch breakout

### TROUBLESHOOTING HINTS

1. Check TAIL DOME Fuse by operating Headlamps.
2. Check IG-COIL METER Fuse by starting vehicle.
3. Check that grounds G200 and G300 are clean and tight.

### SYSTEM DIAGNOSIS

TEST	RESULT	ACTION
1. Open LH door. Insert ignition key into Ignition Switch.	Alarm sounds.	GO to step 2.
	Alarm does not sound.	GO to step 8.
2. Close LH door.	Alarm stops.	GO to step 3.
	Alarm continues to sound.	GO to step 14.
3. Open LH door and remove ignition key.	Alarm does not sound.	GO to step 4.
	Alarm sounds.	GO to step 16.
4. Insert ignition key into Ignition Switch and turn to "ON." Leave Seat Belt unbuckled.	Alarm sounds and Seat Belt Indicator is lit.	GO to step 5.
	Alarm does not sound and Seat Belt Indicator does not light.	GO to step 18.
	Alarm sounds but Seat Belt Indicator does not light.	GO to step 28.
	Seat Belt Indicator lights but alarm does not sound.	GO to step 29.
5. Fasten Seat Belt while alarm is sounding.	Alarm stops and Seat Belt Indicator goes out.	GO to step 6.
	Alarm does not stop and Seat Belt Indicator does not go out.	GO to step 21.
	Seat Belt Indicator goes out but Alarm does not stop.	Replace AUDIO ALARM MODULE.
6. Turn Headlamp Switch to PARK or HEAD. Turn Ignition Switch to "OFF" and remove key.	Alarm sounds.	GO to step 7.
	Alarm does not sound.	GO to step 23.
7. Turn Headlamp Switch to "OFF."	Alarm stops.	All systems in this Section are functioning normally.
	Alarm continues to sound.	GO to step 25.

**SYSTEM DIAGNOSIS**

TEST	RESULT	ACTION
8. Backprobe IGNITION KEY WARNING SWITCH with a test lamp from cavity 2 to chassis ground.	Test lamp does not light.	Repair open in WHT wire between FUSE BLOCK 2 and IGNITION KEY WARNING SWITCH.
	Test lamp lights.	GO to step 9.
9. Fully insert ignition key into Ignition Switch. Disconnect IGNITION KEY WARNING SWITCH connector. Connect a digital multimeter across IGNITION KEY WARNING SWITCH terminals. Measure resistance.	More than 0.3 ohms.	Replace IGNITION KEY WARNING SWITCH.
	Less than 0.3 ohms.	GO to step 10.
10. Reconnect IGNITION KEY WARNING SWITCH. Backprobe AUDIO ALARM MODULE connector with a test lamp from cavity 4 to chassis ground.	Test lamp does not light.	Repair open in BLU/BLK wire between AUDIO ALARM MODULE and IGNITION KEY WARNING SWITCH.
	Test lamp lights.	GO to step 11.
11. Disconnect AUDIO ALARM MODULE connector. Connect a digital multimeter from connector cavity 7 to chassis ground. Measure resistance.	More than 0.3 ohms.	Repair open in BLK ground wire between AUDIO ALARM MODULE and G200.
	Less than 0.3 ohms.	GO to step 12.
12. Connect a digital multimeter from AUDIO ALARM MODULE connector cavity 6 to chassis ground with LH door open. Measure resistance.	Less than 0.3 ohms.	Replace AUDIO ALARM MODULE.
	More than 0.3 ohms.	GO to step 13.
13. Remove LH (FRONT) DOOR JAMB SWITCH. Disconnect LH (FRONT) DOOR JAMB SWITCH connector. Connect a digital multimeter from LH (FRONT) DOOR JAMB SWITCH connector cavity 2 to AUDIO ALARM MODULE connector cavity 6. Measure resistance.	More than 0.3 ohms.	Repair open in BLK/BLU wire between AUDIO ALARM MODULE and LH (FRONT) DOOR JAMB SWITCH.
	Less than 0.3 ohms.	Replace LH (FRONT) DOOR JAMB SWITCH.
14. Remove LH (FRONT) DOOR JAMB SWITCH. Disconnect LH (FRONT) DOOR JAMB SWITCH connector.	Alarm stops.	Replace LH (FRONT) DOOR JAMB SWITCH.
	Alarm continues to sound.	GO to step 15.
15. Disconnect AUDIO ALARM MODULE connector. Connect a digital multimeter from connector cavity 6 to chassis ground. Measure resistance.	Infinite.	Replace AUDIO ALARM MODULE.
	Less than infinite.	Repair short to ground in BLK/BLU wire between AUDIO ALARM MODULE and LH (FRONT) DOOR JAMB SWITCH.
16. Disconnect IGNITION KEY WARNING SWITCH connector.	Alarm stops.	Replace IGNITION KEY WARNING SWITCH.
	Alarm continues to sound.	GO to step 17.
17. Disconnect AUDIO ALARM MODULE connector. Connect a test lamp from connector cavity 4 to chassis ground.	Test lamp does not light.	Replace AUDIO ALARM MODULE.
	Test lamp lights.	Repair short to voltage in BLU/BLK wire between IGNITION KEY WARNING SWITCH and AUDIO ALARM MODULE.

## 8A - 76 - 6 ELECTRICAL DIAGNOSIS

### AUDIBLE WARNINGS

#### SYSTEM DIAGNOSIS

TEST	RESULT	ACTION
18. Backprobe AUDIO ALARM MODULE connector with a test lamp from cavity 5 to chassis ground.	Test lamp does not light.	Repair open in BLK/WHT wire between FUSE BLOCK 2 and AUDIO ALARM MODULE.
	Test lamp lights.	GO to step 19.
19. Backprobe SEAT BELT SWITCH connector with a digital multimeter from cavity 1 to chassis ground. Measure resistance.	Less than 0.3 ohms.	Repair open in GRA/RED wire between AUDIO ALARM MODULE and SEAT BELT SWITCH.
	More than 0.3 ohms.	GO to step 20.
20. Backprobe SEAT BELT SWITCH connector with a digital multimeter from cavity 2 to chassis ground. Measure resistance.	Less than 0.3 ohms.	Replace Seat Belt Buckle.
	More than 0.3 ohms.	Repair open in BLK ground wire between SEAT BELT SWITCH and G300.
21. Disconnect SEAT BELT SWITCH connector.	Alarm stops and Seat Belt Indicator goes out.	Replace Seat Belt Buckle.
	Alarm continues to sound and Seat Belt Indicator remains lit.	GO to step 22.
22. Disconnect AUDIO ALARM MODULE connector. Connect a digital multimeter from cavity 1 to chassis ground. Measure resistance.	Less than infinite.	Repair short to ground in YEL/RED - GRA/RED wire between AUDIO ALARM MODULE/INSTRUMENT PANEL CLUSTER ASSEMBLY and SEAT BELT SWITCH.
	Infinite.	Replace AUDIO ALARM MODULE.
23. Backprobe AUDIO ALARM MODULE connector with a test lamp from cavity 2 to chassis ground.	Test lamp lights.	Replace AUDIO ALARM MODULE.
	Test lamp does not light.	GO to step 24.
24. Backprobe HEADLAMP RELAY 2 connector with a test lamp from cavity 2 to chassis ground.	Test lamp lights.	Repair open in RED/YEL wire between HEADLAMP RELAY 2 and AUDIO ALARM MODULE.
	Test lamp does not light.	Refer to SECTION 8A-110 for Exterior Parklamps diagnosis.
25. Disconnect HEADLAMP RELAY 2 and AUDIO ALARM MODULE connectors. Connect a test lamp from AUDIO ALARM MODULE connector terminal 2 to chassis ground.	Test lamp lights.	Repair short to voltage in RED/YEL wire between AUDIO ALARM MODULE and HEADLAMP RELAY 2.
	Test lamp does not light.	GO to step 26.
26. Connect a test lamp from AUDIO ALARM MODULE connector cavity 5 to chassis ground.	Test lamp lights.	Repair short to voltage in BLK/WHT wire.
	Test lamp does not light.	GO to step 27.
27. Connect a digital multimeter from COMBINATION SWITCH cavity 18 to cavity 13 (switch side). Measure resistance.	Less than infinite.	Replace COMBINATION SWITCH.
	Infinite	GO to step 30.
28. Disconnect INSTRUMENT PANEL CLUSTER ASSEMBLY connector C3. Connect a test lamp from cavity 11 to chassis ground.	Test lamp lights.	Replace Seat Belt Indicator lamp.
	Test lamp does not light.	Repair open in BLK/WHT wire between FUSE BLOCK 2 and INSTRUMENT PANEL CLUSTER ASSEMBLY.

**SYSTEM DIAGNOSIS**

TEST	RESULT	ACTION
29. Disconnect AUDIO ALARM MODULE connector. Connect a digital multimeter between cavity 1 and chassis ground. Measure resistance.	Infinite.	Repair open in YEL/RED wire between S200 and AUDIO ALARM MODULE.
	Less than infinite.	Replace AUDIO ALARM MODULE.
30. Connect a digital multimeter from cavity 2 of HEADLAMP RELAY 2 to cavity 4 (relay side). Measure resistance.	Less than infinite.	Replace HEADLAMP RELAY 2.
	Infinite.	Replace AUDIO ALARM MODULE.

**COMPONENT REPLACEMENT INFORMATION**

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

Audio Alarm Module.....	Section 8C
Combination Switch.....	Section 3F4
Ignition Key Warning Switch.....	Section 3F4
Instrument Panel Cluster Printed Circuit.....	Section 8C
LH (Front) Door Jamb Switch.....	Section 10-5
Seat Belt Buckle.....	Section 10-11

**CIRCUIT OPERATION****IGNITION KEY WARNING ALARM**

Battery voltage is applied through the TAIL DOME Fuse at all times to the IGNITION KEY WARNING SWITCH. When the ignition key is inserted into the ignition lock cylinder, the IGNITION KEY WARNING SWITCH is closed and a voltage signal is provided to the AUDIO ALARM MODULE. If the LH door is opened, the LH (FRONT) DOOR JAMB SWITCH closes and a ground signal is provided to the AUDIO ALARM MODULE. When these two signals are received simultaneously, the AUDIO ALARM MODULE activates the ignition key warning alarm.

**SEAT BELT INDICATOR**

The AUDIO ALARM MODULE and the Seat Belt Indicator receive battery voltage through the IG-COIL METER Fuse whenever the ignition switch is in the "ON" or "START" positions. If the driver's seat belt is not buckled, a ground signal is provided to the Seat Belt

Indicator and the AUDIO ALARM MODULE through the SEAT BELT SWITCH to G300 illuminating the Seat Belt Indicator. When these two signals are received simultaneously, the AUDIO ALARM MODULE activates the Seat Belt warning alarm for approximately .5 seconds.

**HEADLAMP WARNING ALARM**

Battery voltage is applied at all times from the TAIL DOME Fuse to HEADLAMP RELAY 2. When the Headlamp Switch is in the PARK or HEAD position, a ground signal is provided for HEADLAMP RELAY 2 through the COMBINATION SWITCH to G200. This energizes the coil, closing the contacts in HEADLAMP RELAY 2 providing battery voltage to the AUDIO ALARM MODULE. A voltage signal is also received by the AUDIO ALARM MODULE from the IG-COIL METER Fuse if the Ignition Switch is in "ON" or "START." If the AUDIO ALARM MODULE receives a lights ON signal while the Ignition Switch is in the "OFF" position, it activates the headlamp warning alarm.