

SECTION 8C

INSTRUMENT PANEL, GAGES AND CONSOLE

CAUTION: The procedures in this section must be followed in the order listed to temporarily disable the Supplemental Restraint System (SIR) and prevent false diagnostic trouble codes (DTCs) from setting. Failure to follow procedures could result in possible air bag deployment, personal injury or otherwise unneeded SIR system repairs.

NOTICE: Always use the correct fastener in the proper location. When you replace a fastener, use ONLY the exact part number for that application. General Motors will call out those fasteners that require a replacement after removal. General Motors will also call out the fasteners that require thread lockers or thread sealant. UNLESS OTHERWISE SPECIFIED, do not use supplemental coatings (paints, greases, or other corrosion inhibitors) on threaded fasteners or fastener joint interfaces. Generally, such coatings adversely affect the fastener torque and joint clamping force, and may damage the fastener. When you install fasteners, use the correct sequence and tightening specifications. Following these instructions can help you avoid damage to parts and systems.

CONTENTS

General Description.....	8C-1	Instrument Cluster Bezel	8C-6
Instrument Panel Assembly	8C-1	Instrument Cluster Gages	8C-7
Instrument Cluster	8C-1	Fuel Gage	8C-7
Diagnosis	8C-2	Speedometer	8C-7
On-Vehicle Service	8C-2	Tachometer	8C-8
Service Precautions	8C-2	Temperature Gage	8C-8
Supplemental Inflatable Restraint (SIR)		Instrument Cluster Lens.....	8C-8
System	8C-2	Instrument Cluster Printed Circuit	8C-9
Disabling the SIR.....	8C-2	Instrument Panel Assembly	8C-10
Enabling the SIR.....	8C-3	Instrument Panel Compartment	8C-13
SIR General Safety Procedures	8C-3	Instrument Panel Compartment Lock	8C-14
Handling Electrostatic Discharge (ESD)		Instrument Panel Switches.....	8C-14
Sensitive Parts	8C-3	"CRUISE CTRL/OFF" Switch.....	8C-14
Ashtray.....	8C-3	Power Mirror Switch	8C-14
Audio Alarm Module.....	8C-4	Rear Defogger Switch	8C-14
Center Trim Bezel.....	8C-4	Rear Wiper/Washer Switch.....	8C-15
Cigar Lighter	8C-4	Knee Bolster.....	8C-15
Console.....	8C-4	Parking Brake Lever Bezel	8C-15
Heater Control Unit Face Plate.....	8C-5	Speedometer Cable.....	8C-15
Illumination Controller.....	8C-5	Turn/Hazard Relay	8C-16
Instrument Cluster	8C-6	Specifications.....	8C-16
Instrument Cluster Assembly.....	8C-6	Fastener Torques	8C-16

GENERAL DESCRIPTION

INSTRUMENT PANEL ASSEMBLY

The instrument panel assembly is the attaching base for the air conditioning switch (if equipped), ashtray, center vent outlets, cigar lighter, defroster outlets, front speakers (if equipped), heater control unit, hood latch release lever, illumination controller, instrument cluster assembly, instrument panel compartment, knee bolster, passenger supplemental restraint system (SIR), radio (if equipped) and side vent outlets.

The instrument panel assembly mounts to the support member and along the base of the windshield opening.

For appearance, the instrument panel covers the routing of major assemblies, such as the heating and air conditioning ducts, electrical components and wiring harnesses.

Instrument Cluster

The instrument cluster assembly includes the following gages: speedometer/odometer, tachometer, fuel gage and engine coolant temperature (ECT) gage. Refer to the appropriate procedures later in this section for removal and installation procedures.

The speedometer head, located in the instrument cluster assembly, consists of a trip odometer and a total mileage odometer. The speedometer and odometer are mechanically driven by the speedometer cable. A vehicle speed sensor is attached to the back

8C-2 INSTRUMENT PANEL, GAGES AND CONSOLE

of the speedometer head which provides vehicle speed information to the ECM. Automatic transmission equipped vehicles have an additional vehicle speed sensor. The speedometer, trip odometer and the total mileage odometer are all serviceable from the instrument cluster assembly.

NOTICE: When replacing a speedometer or odometer assembly, the law requires the odometer reading of the replacement unit to be set to register the same mileage as the prior odometer. If the same mileage cannot be set, the law requires that the replacement odometer be set to zero (0) and a label be installed on the driver's door frame to show the previous odometer reading and date of replacement.

The instrument cluster includes the following indicators: "AIR BAG", "ABS" and "ABS ACTIVE" (if equipped), "BRAKE", charging system, daytime running lamps (DRL), fasten seat belt, high beam, oil pressure, "POWER" and "OD/OFF" (if equipped with 4-speed A/T), "SERVICE ENGINE SOON", turn signals and "4WD" (if equipped). The indicators are serviceable from the rear of the instrument cluster assembly. Refer to "Instrument Cluster Assembly" later in this section for instrument cluster assembly service procedures. The instrument cluster assembly indicators may differ from model to model, depending on options.

DIAGNOSIS

For diagnosis of the supplemental restraint system (SIR), refer to SECTION 9J. To diagnose all other electrical systems, refer to SECTION 8A.

ON-VEHICLE SERVICE

SERVICE PRECAUTIONS

Supplemental Inflatable Restraint (SIR) System

CAUTION: When performing service on or around SIR components or SIR wiring, follow the procedures listed below to temporarily disable the SIR. Failure to follow procedures could result in possible air bag deployment, personal injury or otherwise unneeded SIR repairs.

The Sensing and Diagnostic Module can maintain sufficient voltage to cause a deployment for up to two minutes after the ignition switch is turned to "LOCK" or the battery is disconnected. Many of the service procedures require disconnection of the air bag fuse (located at the airbag fuse box), the steering column circuit (SIR coil assembly and inflator module), and passenger-side inflator module circuit from the deployment loop to avoid an accidental deployment.

Disabling the SIR

Figure 1

Remove or Disconnect

1. Turn the steering wheel so that the vehicle's wheels are pointing straight ahead.
2. Turn the ignition switch to "LOCK."
3. "AIR BAG" fuse from airbag fuse box.
4. Remove steering wheel left side cap and disconnect driver inflator module yellow connector (Figure 1).
5. Pull out instrument panel compartment while pushing its stoppers from both right and left sides and disconnect passenger inflator module yellow connector (Figure 1).

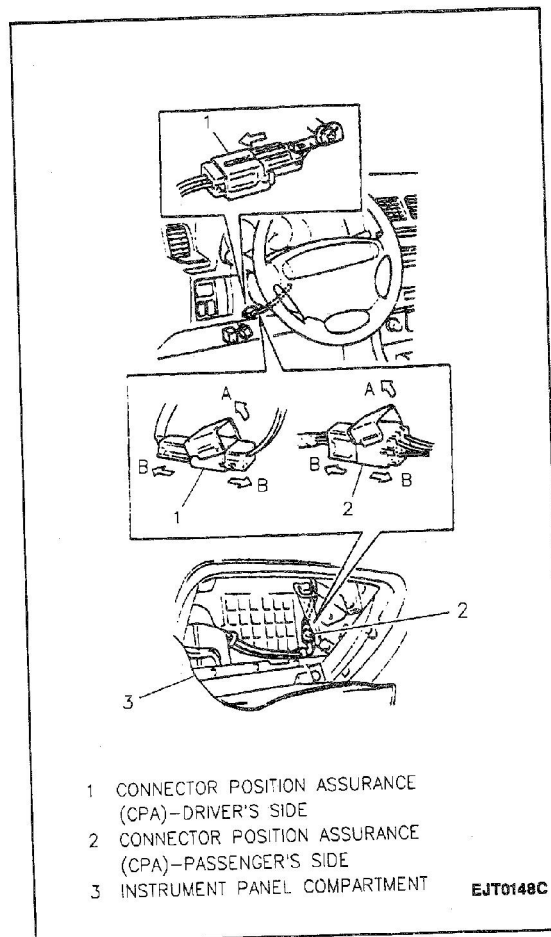


Figure 1—SIR Connectors

INSTRUMENT PANEL, GAGES AND CONSOLE 8C-3

Enabling the SIR

Figure 1

Install or Connect

1. Turn the ignition switch to "LOCK."
2. Passenger inflator module connector; secure with Connector Position Assurance (CPA). Close instrument panel compartment (Figure 1).
3. Driver inflator module connector; secure with CPA. Replace steering wheel cover (Figure 1).
4. "AIR BAG" fuse to airbag fuse box.
5. Turn ignition switch to "ACC" or "ON" and verify that the air bag indicator flashes for approximately six seconds and then turns off. If it does not operate as described, perform the "SIR Diagnostic System Check" in SECTION 9J.

SIR General Safety Procedures

1. Inflator modules should not be stored at temperatures above 65°C (150°F).
2. Inflator Modules and Sensing and Diagnostic Modules assemblies should not be used if they have been dropped from a height of 91.4 cm (3 ft.) or more.
3. Do not apply power to the SIR unless all components are connected or a diagnostic chart requests it. Powering up the SIR with components disconnected will set a diagnostic trouble code (DTC).
4. The "SIR Diagnostic System Check" in SECTION 9J must be the starting point of any SIR diagnostics. The "SIR Diagnostic System Check" will verify proper air bag indicator operation and will lead you to the correct chart to diagnose any SIR faults. Bypassing these procedures may result in extended diagnostic time, incorrect diagnosis and incorrect parts replacement.

Handling Electrostatic Discharge (ESD) Sensitive Parts

Some solid-state electrical components can be damaged by electrostatic discharge (ESD). Refer to SECTION 0A and SECTION 8A for ESD sensitive parts handling procedures.

ASHTRAY

Figure 2

Remove or Disconnect

1. Negative (-) battery cable.
2. Ashtray from guide by depressing spring-loaded tab and pulling ashtray out from the guide.
3. Four knobs from heater control unit.
4. Heater control unit face plate from center trim bezel by pulling straight out (Figure 2).

5. Twist off heater control unit face plate illumination bulb socket.
6. Four screws and center trim bezel from instrument panel (Figure 2).
7. Ashtray guide from instrument panel.
8. One screw and ashtray illumination lamp (if required).
9. Twist off ashtray illumination bulb socket from lamp (if required).

Install or Connect

1. Ashtray illumination bulb socket to lamp by twisting clockwise (if removed).
2. Ashtray illumination lamp to instrument panel; secure with one screw (if removed).
3. Ashtray guide to instrument panel.
4. Center trim bezel to instrument panel; secure with four screws.
5. Heater control unit illumination bulb to heater control unit face plate by twisting clockwise.
6. Heater control unit face plate to instrument panel; push until it snaps in place.
7. Heater control unit knobs.
8. Slide ashtray into guide.
9. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N-m (11 lbs. ft).

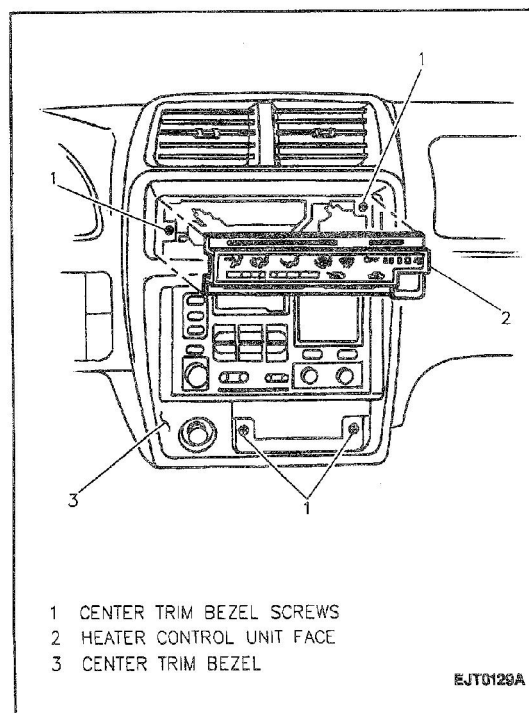


Figure 2—Center Trim Bezel

8C-4 INSTRUMENT PANEL, GAGES AND CONSOLE

AUDIO ALARM MODULE

Figure 3

The audio alarm module is mounted inside the instrument panel, between the radio and instrument panel compartment (Figure 3).

Remove or Disconnect

1. Negative (-) battery cable.
2. Pull out instrument panel compartment while pushing its stopper from both left and right sides.
3. Electrical connector from audio alarm module.
4. With flat-bladed screwdriver, release locking tab and remove audio alarm module from bracket (Figure 3).

Install or Connect

1. Audio alarm module to instrument panel bracket.
2. Electrical connector to audio alarm module.
3. Close instrument panel compartment.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft).

CENTER TRIM BEZEL

Figure 2

Remove or Disconnect

1. Negative (-) battery cable.
2. Ashtray from guide by depressing spring-loaded tab and pulling ashtray out from the guide.

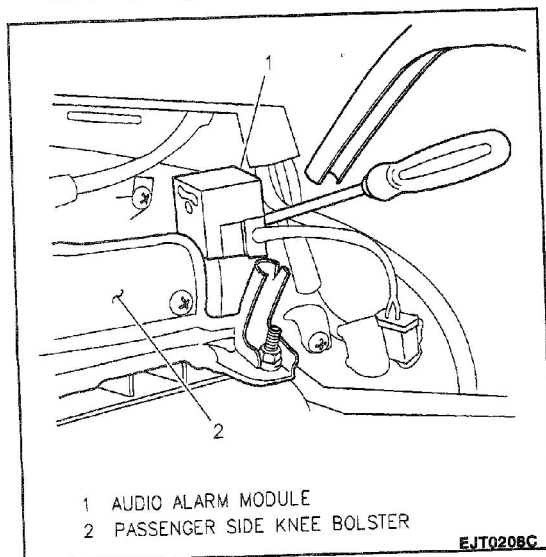


Figure 3—Audio Alarm Module Removal

3. Four knobs from heater control unit.
4. Heater control unit face plate from center trim bezel by pulling straight out (Figure 2).
5. Twist off heater control unit face plate illumination bulb socket.
6. Four screws and center trim bezel from instrument panel (Figure 2).

Install or Connect

1. Center trim bezel to instrument panel; secure with four screws.
2. Heater control unit illumination bulb socket to heater control unit face plate by twisting clockwise.
3. Heater control unit face plate to instrument panel; push until it snaps in place.
4. Heater control unit knobs.
5. Slide ashtray into guide.
6. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft).

CIGAR LIGHTER

Remove or Disconnect

1. Negative (-) battery cable.
2. Illumination lamp bulb socket from cigar lighter.
3. Cigar lighter electrical connector.
4. Unscrew retainer from rear of cigar lighter.
5. Cigar lighter from instrument panel.

Install or Connect

1. Cigar lighter to instrument panel; secure with one retainer.
2. Electrical connector to cigar lighter.
3. Illumination lamp bulb socket to cigar lighter.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft).

CONSOLE

Figures 4 and 5

Remove or Disconnect

1. Negative (-) battery cable.
2. Two plastic retaining clips, two screws and parking brake lever bezel (Figure 4).
3. Two rear remote power window electrical connectors (if equipped).
4. Two screws, two plastic retaining clips and lift console (Figure 5).

5. "Power/Normal" switch electrical connector (if equipped with 4-speed A/T).

Install or Connect

1. "Power/Normal" switch electrical connector (if equipped with 4-speed A/T).
2. Console to vehicle; secure with two screws and two plastic retaining clips.
3. Rear remote power window switch electrical connectors (if equipped).
4. Parking brake lever bezel; secure with two plastic retaining clips and two screws.
5. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft).

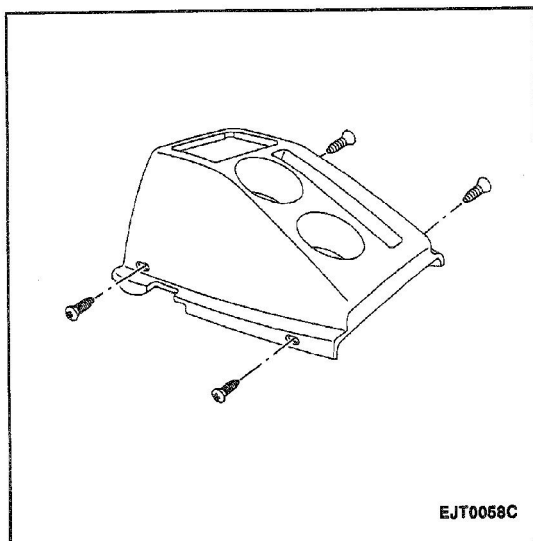


Figure 4—Parking Brake Lever Bezel

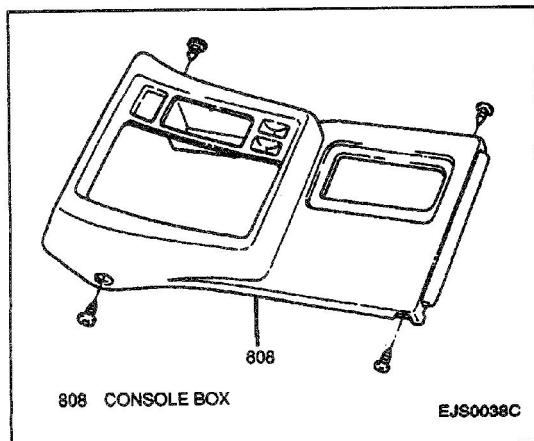


Figure 5—Console

HEATER CONTROL UNIT FACE PLATE

Figure 2

Remove or Disconnect

1. Negative (-) battery cable.
2. Four control knobs from heater control unit.
3. Pull heater control unit face plate from instrument panel (Figure 2).
4. Heater control unit illumination lamp socket from face plate.
5. Pull out instrument panel compartment while pushing its stopper from both left and right sides (if equipped with A/C).
6. A/C switch electrical connector (if equipped).
7. A/C switch from heater control unit face plate (if equipped).

Install or Connect

1. A/C switch to heater control unit face plate (if equipped).
2. A/C switch electrical connector (if equipped).
3. Close instrument panel compartment.
4. Illumination lamp bulb socket to heater control unit face plate.
5. Press heater control unit face plate into position on instrument panel.
6. Heater control unit control knobs.
7. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft).

ILLUMINATION CONTROLLER

Figure 6

Remove or Disconnect

1. Negative (-) battery cable.
2. Knee bolster. Refer to "Knee Bolster" later in this section.
3. Push on the bottom of illumination controller by pushing up with a pick from behind the instrument panel.
4. Slide illumination controller out from instrument panel (Figure 6).
5. Electrical connector from illumination controller.

Install or Connect

1. Electrical connector to illumination controller.
2. Slide illumination controller into place.
3. Knee bolster. Refer to "Knee Bolster" later in this section.
4. Negative (-) battery cable.

8C-6 INSTRUMENT PANEL, GAGES AND CONSOLE

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs. ft).

INSTRUMENT CLUSTER

Instrument Cluster Assembly

Figures 7 and 8

Remove or Disconnect

1. Negative (-) battery cable.
2. Remove hazard lights switch knob by gently pulling out knob.
3. Five screws and steering column upper and lower covers (Figure 7).
4. Four screws and instrument cluster bezel.
5. Four screws and instrument cluster assembly from instrument panel (Figure 8).
6. Three electrical connectors and speedometer cable from instrument cluster assembly.

Install or Connect

1. Three electrical connectors and speedometer cable to instrument cluster assembly.
2. Instrument cluster assembly to instrument panel; secure with four screws.
3. Instrument cluster bezel to instrument panel; secure with four screws.
4. Steering column upper and lower covers; secure with five screws.
5. Push hazard lights switch into place.
6. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs. ft).

Instrument Cluster Bezel

Figures 7 and 8

Remove or Disconnect

1. Negative (-) battery cable.
2. Five screws and steering column upper and lower covers (Figure 7).
3. Four screws and instrument cluster bezel from vehicle (Figure 8).

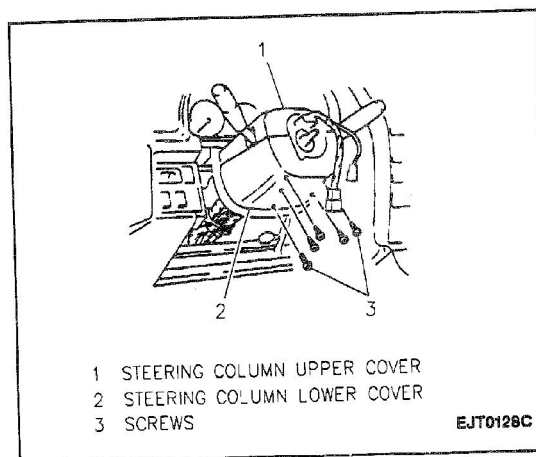


Figure 7—Steering Column Upper and Lower Covers

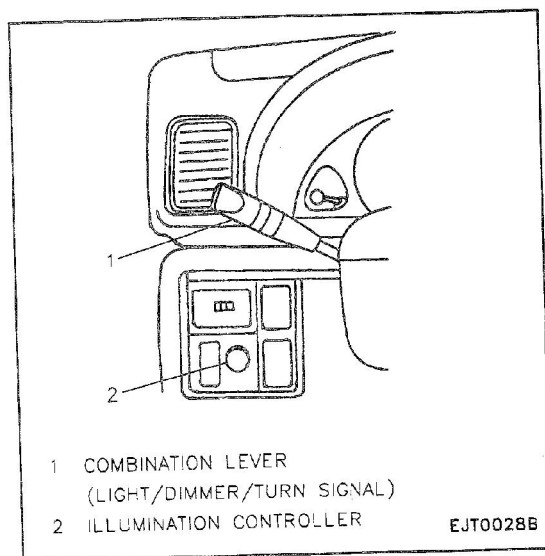


Figure 6—Illumination Controller Location

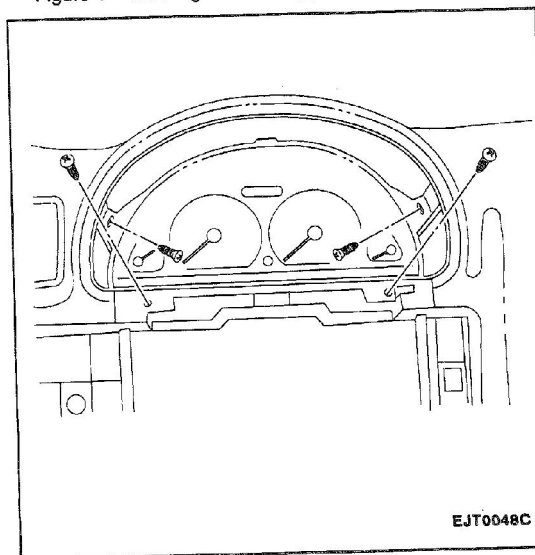


Figure 8—Instrument Cluster Assembly Bolts

INSTRUMENT PANEL, GAGES AND CONSOLE 8C-7

Install or Connect

1. Instrument cluster bezel to vehicle; secure with four screws.
2. Steering column upper and lower covers; secure with five screws.
3. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs. ft.).

Instrument Cluster Gages

Fuel Gage

Figures 9 and 10

Remove or Disconnect

1. Negative (-) battery cable.
2. Instrument cluster from instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.
3. Instrument cluster lens and bezel assembly from instrument cluster housing by releasing eight black plastic tabs (Figure 9).
4. Three screws and fuel gage from instrument cluster housing (Figure 10).

Install or Connect

1. Fuel gage to instrument cluster housing; secure with three screws.
2. Instrument cluster lens and bezel to instrument cluster housing.

3. Instrument cluster to instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.

4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs.ft.).

Speedometer

Figures 9 and 10

Important

- When replacing a speedometer or odometer assembly, the law requires the odometer reading of the replacement unit to be set to register the same mileage as the prior odometer. If the same mileage cannot be set, the law requires that the replacement odometer be set to zero (0) and a label be installed on the driver's door frame to show the previous odometer reading and date of replacement.

Remove or Disconnect

1. Negative (-) battery cable.
2. Instrument cluster from instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.
3. Instrument cluster lens and bezel assembly from instrument cluster housing by releasing eight black plastic tabs (Figure 9).
4. Four screws and speedometer from instrument cluster housing (Figure 10).

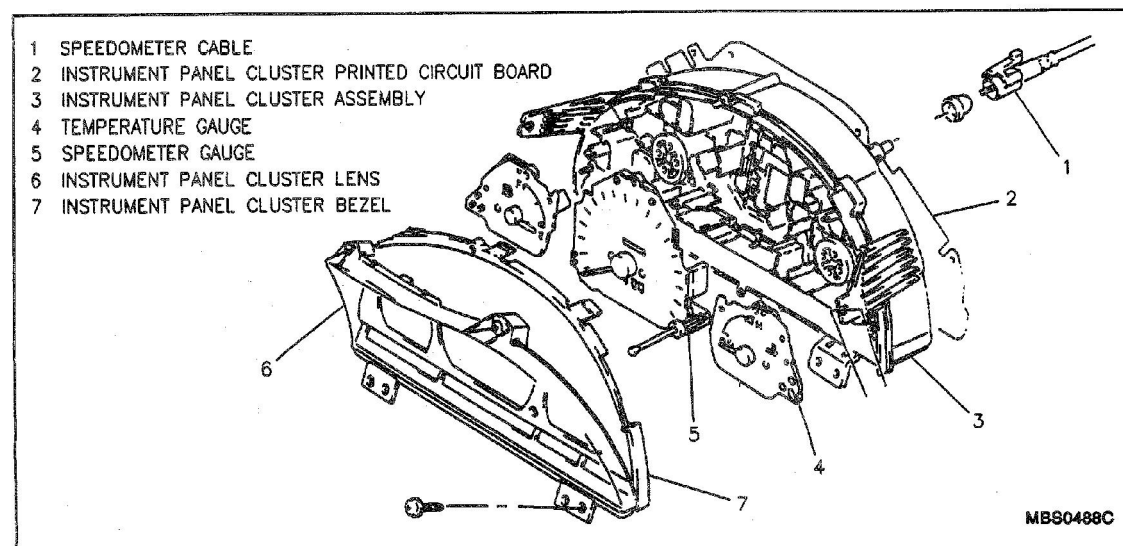


Figure 9—Instrument Cluster Assembly

8C-8 INSTRUMENT PANEL, GAGES AND CONSOLE

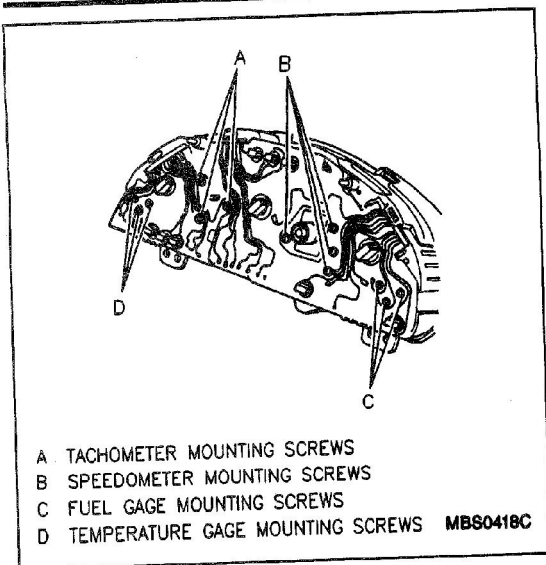


Figure 10—Gage Mounting Screws

Install or Connect

1. Speedometer gage to instrument cluster housing; secure with four screws.
2. Instrument cluster lens and bezel to instrument cluster housing.
3. Instrument cluster to instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs.ft.).

Tachometer

Figures 9 and 10

Remove or Disconnect

1. Negative (-) battery cable.
2. Instrument cluster from instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.
3. Instrument cluster lens and bezel assembly from instrument cluster housing by releasing eight black plastic tabs (Figure 9).
4. Three screws and tachometer from instrument cluster housing (Figure 10).

Install or Connect

1. Tachometer to instrument cluster housing; secure with three screws.
2. Instrument cluster lens and bezel to instrument cluster housing.

3. Instrument cluster to instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs.ft.).

Temperature Gage

Figures 9 and 10

Remove or Disconnect

1. Negative (-) battery cable.
2. Instrument cluster from instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.
3. Instrument cluster lens and bezel assembly from instrument cluster housing by releasing eight black plastic tabs (Figure 9).
4. Three screws and temperature gage from instrument cluster housing (Figure 10).

Install or Connect

1. Temperature gage to instrument cluster housing; secure with three screws.
2. Instrument cluster lens and bezel to instrument cluster housing.
3. Instrument cluster to instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs.ft.).

Instrument Cluster Lens

Figures 7, 8 and 9

Remove or Disconnect

1. Negative (-) battery cable.
2. Five screws and steering column upper and lower covers (Figure 7).
3. Four screws and instrument cluster bezel.
4. Four screws and instrument cluster assembly from instrument panel (Figure 8).
5. Three electrical connectors and speedometer cable from instrument cluster assembly.
6. Release seven plastic "clear" tabs and remove lens from instrument cluster assembly (Figure 9).

Install or Connect

1. Lens to instrument cluster assembly; press around lens until all tabs snap in place.
2. Three electrical connectors and speedometer cable to instrument cluster assembly.

INSTRUMENT PANEL, GAGES AND CONSOLE 8C-9

3. Instrument cluster assembly to instrument panel; secure with four screws.
4. Instrument cluster bezel to instrument panel; secure with four screws.
5. Steering column upper and lower covers; secure with five screws.
6. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lb. ft.).

Instrument Cluster Printed Circuit

Figures 10 and 11

Remove or Disconnect

1. Negative (-) battery cable.
2. Instrument cluster from instrument panel. Refer to "Instrument Cluster Assembly" earlier in this section.

3. All bulb sockets from rear of instrument cluster assembly (Figure 11).
4. All screws from rear of instrument cluster assembly (Figure 10).
5. Instrument cluster printed circuit from instrument cluster assembly.

Install or Connect

1. Instrument cluster printed circuit to instrument cluster assembly; secure with screws.
2. All bulb sockets to rear of instrument cluster assembly.
3. Instrument cluster to instrument panel. Refer to "Instrument Cluster" earlier in this section.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lb. ft.).

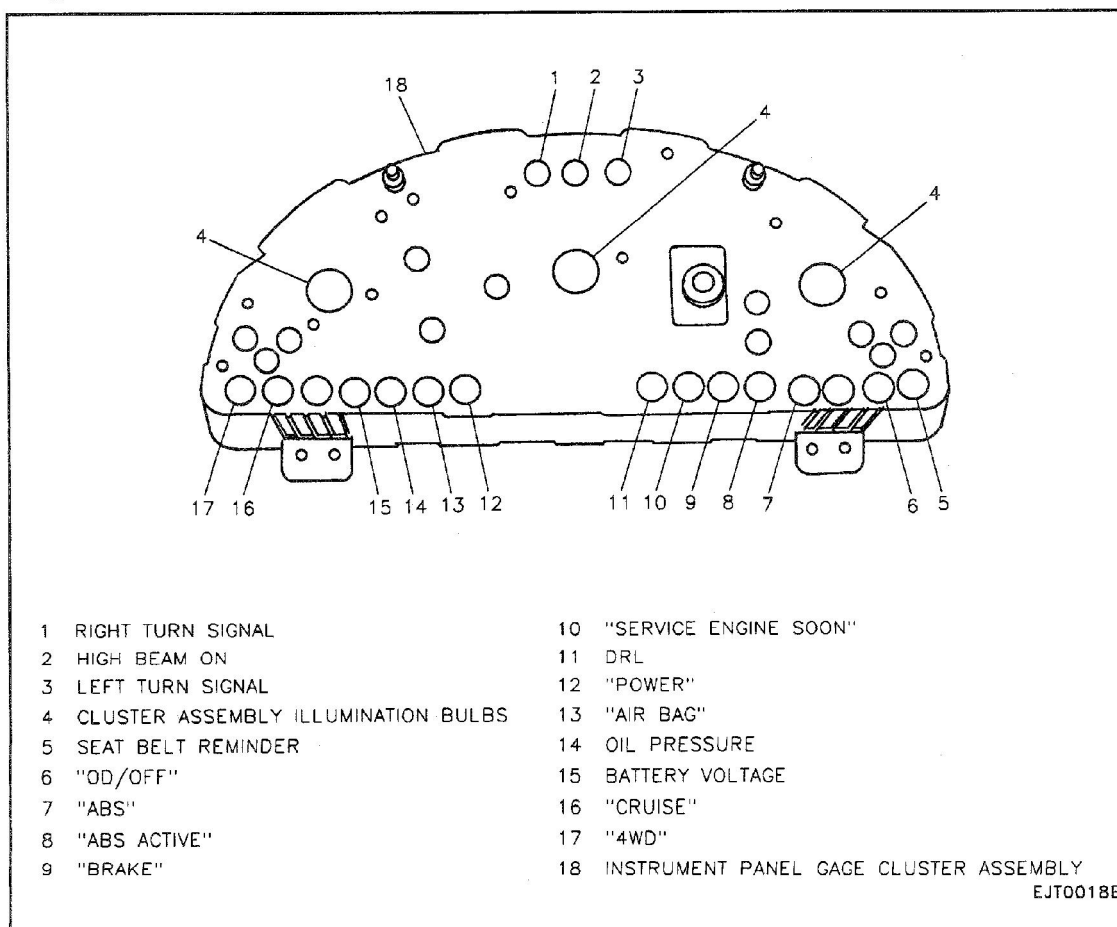


Figure 11—Instrument Cluster Indicator Bulb Location

8C-10 INSTRUMENT PANEL, GAGES AND CONSOLE

INSTRUMENT PANEL ASSEMBLY

Figures 2, 4, 5, 8, and 12 through 16



Remove or Disconnect

1. Negative (-) battery cable.
2. Disable the SIR. Refer to "Disabling the SIR" located under "On-Vehicle Service" earlier in this section.
3. Pull out instrument panel compartment while pushing its stopper from both left and right sides.
4. Two plastic hinge pins and instrument panel compartment.
5. Two screws and set aside hood release handle.
6. Two screws, three bolts and passenger side SIR module (Figure 12).
7. Two plastic retaining clips, two screws, two electrical connectors (if equipped with power windows) and parking brake lever bezel from vehicle (Figure 4).
8. Two screws, two plastic retaining clips and lift console (Figure 5).
9. "Power/Normal" switch electrical connector (if equipped with 4-speed A/T) and remove console from vehicle.
10. Ashtray from guide by depressing spring-loaded tab and pulling ashtray out from the guide.
11. Four knobs from heater control unit.
12. Heater control unit face plate from center trim bezel by pulling straight out (Figure 2).

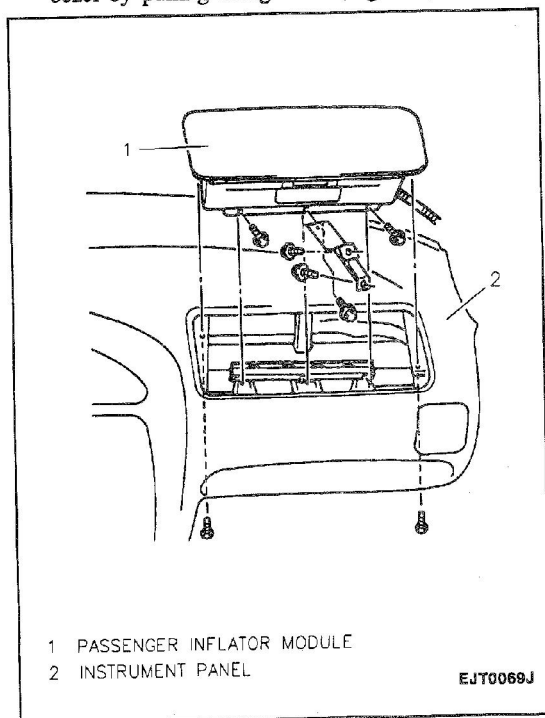


Figure 12—Passenger Side SIR Assembly

- 1 RADIO
- 2 RADIO SCREWS

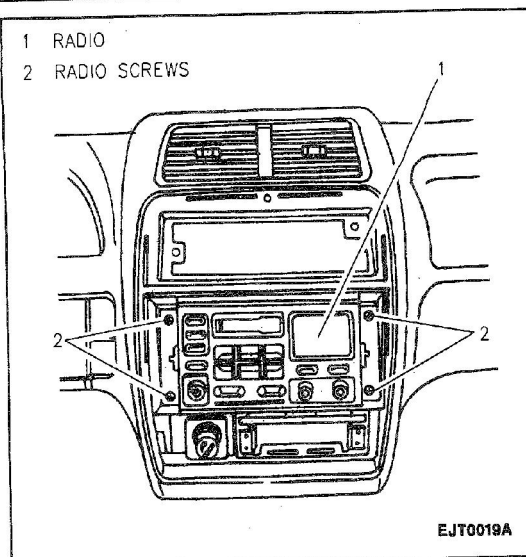


Figure 13—Radio Removal

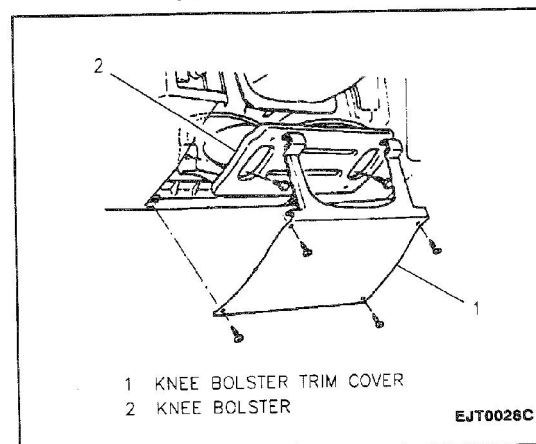


Figure 14—Knee Bolster Cover

13. Twist off heater control unit face plate illumination bulb socket.
14. Four screws and center trim bezel (Figure 2).
15. A/C switch electrical connector (if equipped).
16. Four screws, two electrical connectors and radio (Figure 13).
17. Four screws and knee bolster trim panel (Figure 14).
18. Pull gently top portion of knee bolster trim panel to release two retainers.
19. Two bolts and knee bolster from instrument panel (Figure 14).
20. Steering column. Refer to SECTION 3F4.
21. Four screws and instrument cluster bezel.
22. Four screws and instrument cluster assembly (Figure 8).
23. Three electrical connectors and speedometer cable from instrument cluster assembly.

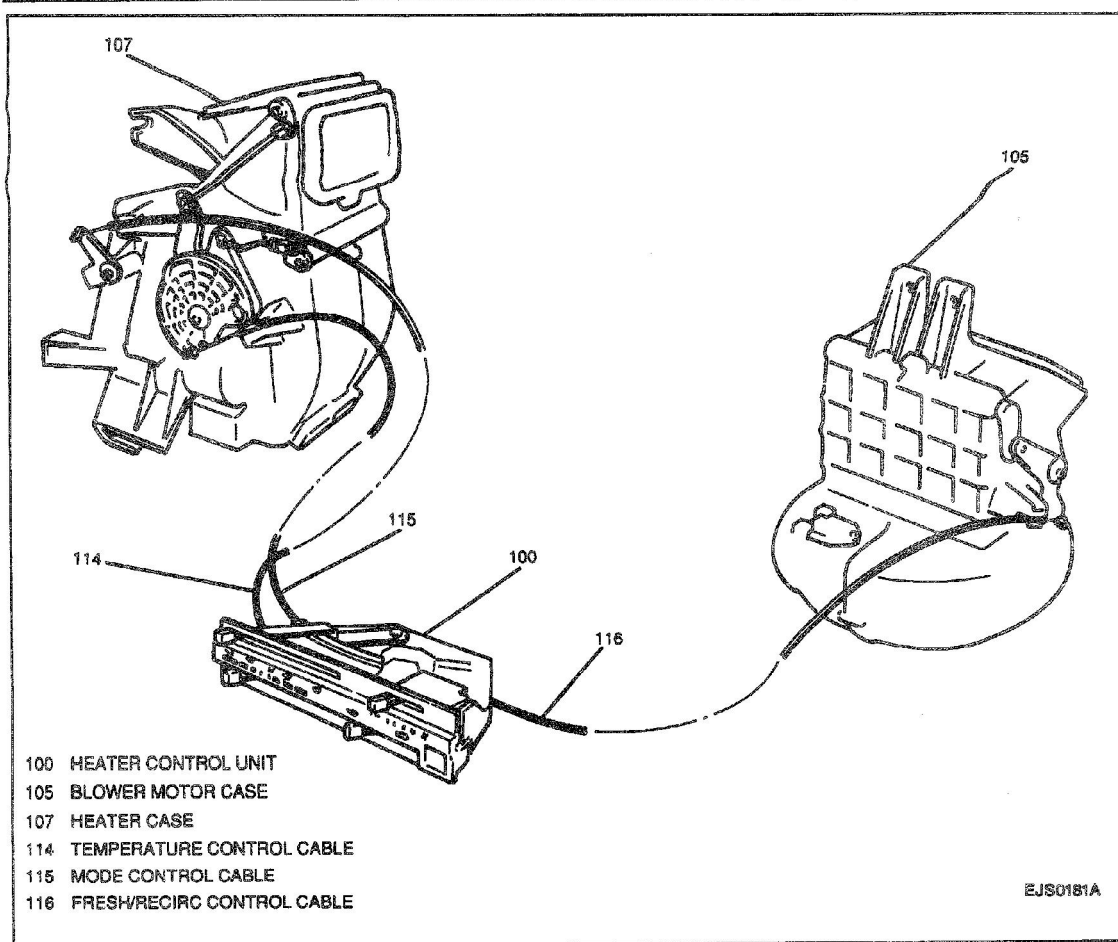


Figure 15—Heater Control Unit Control Cables

24. Mode and temperature control cables on right side of heater case (Figure 15).
25. Fresh/Recirculation control cable at blower case (Figure 15).
26. Blower switch electrical connector and heater control unit.
27. Instrument panel harness electrical connectors.
28. One screw holding left side of the instrument panel support beam to vehicle (Figure 16).
29. One screw on bottom left side of instrument panel.
30. Left side instrument panel support beam cover and two bolts (Figure 17).
31. Right side instrument panel support beam cover and two bolts (Figure 17).
32. Left and right screws at bottom of instrument panel compartment support (Figure 18).
33. Two front speaker grills and instrument panel upper center cover with flat-bladed screwdriver (Figure 19).
34. Three screws along top of instrument panel (Figure 20).

35. Pull instrument panel from support member.
36. Instrument panel from vehicle.



Disassemble

1. Four screws and defroster duct, including side demister ducts.
2. Two screws and center vent duct.
3. Two screws and center vent louver.
4. One screw, two locking tabs and left vent louver.
5. Two locking tabs and right vent louver.
6. Two screws, all harness loops, and instrument panel wiring harness.
7. Fourteen screws and instrument panel support beam.



Assemble

1. Instrument panel support beam; secure with fourteen screws.
2. Instrument panel wiring harness; secure with two screws and harness loops.

8C-12 INSTRUMENT PANEL, GAGES AND CONSOLE

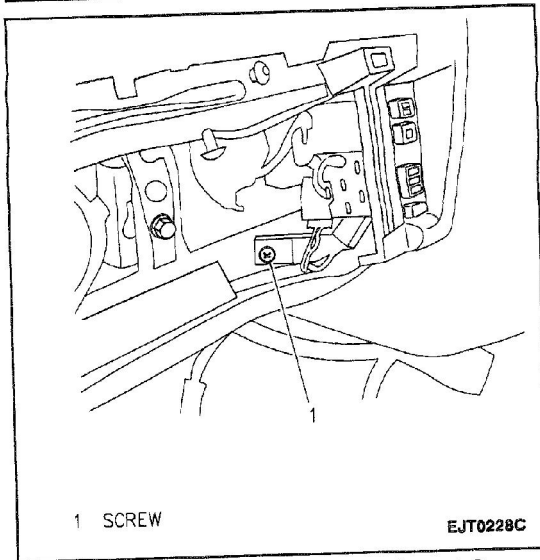


Figure 16—Instrument Panel Left Side Support Screw

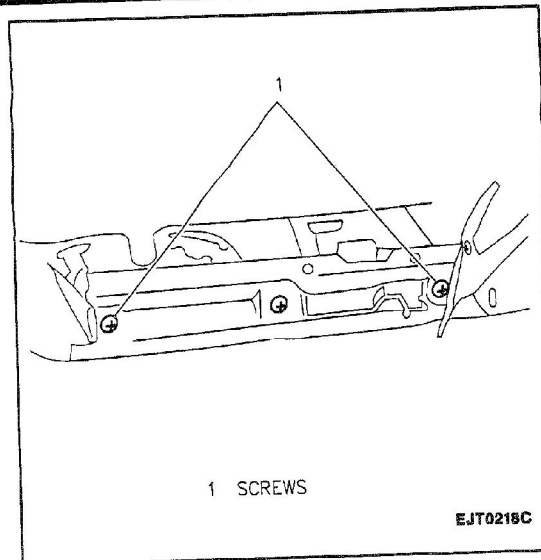


Figure 18—Instrument Panel Compartment Lower Support Screws

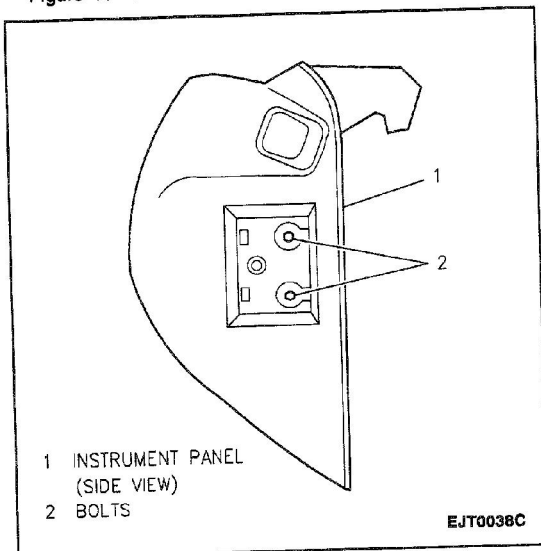


Figure 17—Instrument Panel Fastener Location (Right Side Shown, Left Similar)

3. Right vent louver; push until it locks in place.
4. Left vent louver; secure with one screw.
5. Center vent louver; secure with two screws.
6. Center vent duct; secure with two screws.
7. Side demister ducts to defroster duct; secure to instrument panel with four screws.

Install or Connect

1. Instrument panel to vehicle.
2. Push instrument panel to support member.
3. Three screws along top of instrument panel.

4. Two front speaker grills and instrument panel upper center cover.
5. Left and right screws at bottom of instrument panel compartment support.
6. Two right side instrument panel support beam bolts and cover.
7. Two left side instrument panel support beam bolts and cover.
8. One screw on bottom left side of instrument panel.
9. Instrument panel support beam screw at left side.
10. Instrument panel harness electrical connectors.
11. Heater control unit to instrument panel; reconnect blower switch electrical connector.
12. Fresh/Recirc control cable to blower case.
13. Mode and temperature control cables to heater case.
14. Three electrical connectors and speedometer cable to instrument cluster assembly.
15. Instrument cluster assembly to instrument panel; secure with four screws.
16. Instrument cluster bezel to vehicle; secure with four screws.
17. Steering column. Refer to SECTION 3F4.
18. Knee bolster to instrument panel; secure with two bolts.
19. Knee bolster trim panel; secure with four screws.
20. Radio; secure with four screws and two electrical connectors.
21. A/C switch electrical connector (if equipped).
22. Center trim bezel, including ashtray guide, to instrument panel; secure with four screws.
23. Heater control unit illumination bulb socket.
24. Heater control unit face plate to center trim bezel; press until it snaps in place.

INSTRUMENT PANEL, GAGES AND CONSOLE 8C-13

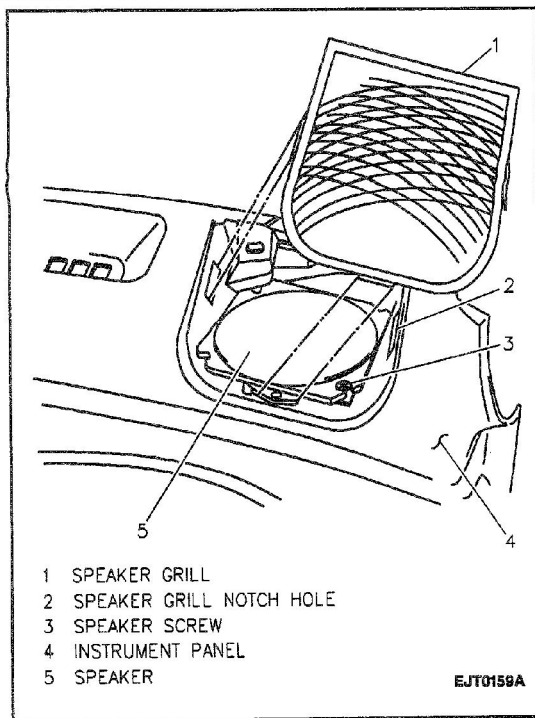


Figure 19—Front Speaker Grill Removal

25. Heater control unit knobs.
26. Ashtray to ashtray guide.
27. "Power/Normal" switch electrical connector (if equipped with 4-speed A/T).
28. Console; secure with two screws and two plastic retaining clips.

29. Parking brake lever bezel; secure with two plastic clips, two screws and two power window electrical connectors (if equipped).
30. Passenger side SIR module; secure with two screws and 3 bolts.



Tighten

- Passenger side SIR module bolts to 23 N-m (16.5 lbs. ft.).
- Passenger side SIR module screws to 5.5 N-m (4.0 lbs. ft.).

31. Hood release handle to instrument panel, secure with two screws.
32. Two plastic hinge pins and instrument panel compartment.
33. Enable the SIR. Refer to "Enabling the SIR" located under "On-Vehicle Service" earlier in this section.
34. Negative (-) battery cable.



Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N-m (11 lbs. ft.).

INSTRUMENT PANEL COMPARTMENT



Remove or Disconnect

- Two plastic hinge pins and instrument panel compartment from instrument panel.



Install or Connect

- Instrument panel compartment to instrument panel; secure with two plastic hinge pins.

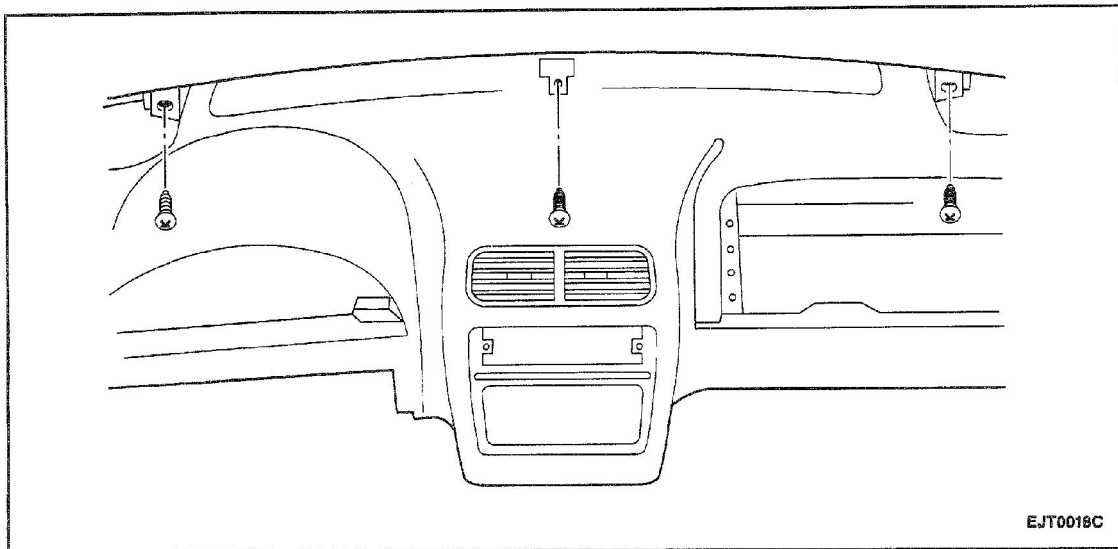


Figure 20—Instrument Panel Assembly Upper Bolts

8C-14 INSTRUMENT PANEL, GAGES AND CONSOLE

Instrument Panel Compartment Lock

Remove or Disconnect

1. Pull out instrument panel compartment while pushing its stopper from both left and right sides.
2. Two screws and lock assembly from instrument panel compartment.

Install or Connect

1. Lock assembly to instrument panel compartment; secure with two screws.
2. Close instrument panel compartment.

INSTRUMENT PANEL SWITCHES

Figure 21

"CRUISE CTRL/OFF" Switch

Remove or Disconnect

1. Negative (-) battery cable.
2. Knee bolster. Refer to "Knee Bolster" later in this section.
3. Clip on the bottom of "CRUISE CTRL/OFF" switch by pushing up with a pick from behind the instrument panel.
4. Slide out "CRUISE CTRL/OFF" switch from instrument panel (Figure 21).
5. Electrical connector from "CRUISE CTRL/OFF" switch.

Install or Connect

1. Electrical connector to "CRUISE CTRL/OFF" switch.
2. Slide "CRUISE CTRL/OFF" switch into place.

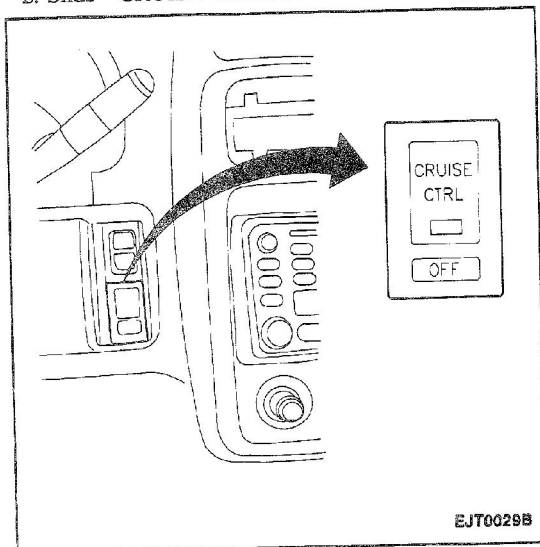


Figure 21—"CRUISE CTRL/OFF" Switch Location

3. Knee bolster. Refer to "Knee Bolster" later in this section.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs. ft).

Power Mirror Switch

Remove or Disconnect

1. Negative (-) battery cable.
2. Knee bolster. Refer to "Knee Bolster" later in this section.
3. Clip on sides of power mirror switch by pushing with a pick.
4. Slide out power mirror switch from instrument panel.
5. Electrical connector from power mirror switch.

Install or Connect

1. Electrical connector to power mirror switch.
2. Slide power mirror switch into place.
3. Knee bolster. Refer to "Knee Bolster" later in this section.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs. ft).

Rear Defogger Switch

Remove or Disconnect

1. Negative (-) battery cable.
2. Knee bolster. Refer to "Knee Bolster" later in this section.
3. Clip on bottom of rear defogger switch by pushing up with a pick.
4. Slide out rear defogger switch from instrument panel.
5. Electrical connector from rear defogger switch.

Install or Connect

1. Electrical connector to rear defogger switch.
2. Slide rear defogger switch into place.
3. Knee bolster. Refer to "Knee Bolster" later in this section.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs. ft).

Rear Wiper/Washer Switch

Remove or Disconnect

1. Negative (-) battery cable.
2. Knee bolster. Refer to "Knee Bolster" later in this section.
3. Clip on bottom of rear wiper/washer switch by pushing up with a pick.
4. Slide out rear wiper/washer switch from instrument panel.
5. Electrical connector from rear wiper/washer switch.

Install or Connect

1. Electrical connector to rear wiper/washer switch.
2. Slide rear wiper/washer switch into place.
3. Knee bolster. Refer to "Knee Bolster" later in this section.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs. ft).

KNEE BOLSTER

Figure 14

Remove or Disconnect

1. Four screws and knee bolster trim panel (Figure 14).
2. Pull gently top portion of knee bolster trim panel to release two clips and knee bolster trim cover from instrument panel.
3. Two bolts and knee bolster from instrument panel (Figure 14).

Install or Connect

1. Knee bolster to instrument panel. Secure with two bolts.
2. Knee bolster trim panel; secure with four screws and two clips.

PARKING BRAKE LEVER BEZEL

Figure 4

Remove or Disconnect

1. Negative (-) battery cable.
2. Two front plastic retaining clips from parking brake lever bezel (Figure 4).
3. Two rear screws and parking brake bezel from vehicle (Figure 4).
4. Two electrical connectors (if equipped with power windows).

Disassemble

- Rear window power window remote switches from parking brake lever bezel by squeezing tabs on switches (if required).

Assemble

- Rear window power window remote switches to parking brake lever bezel; push until it snaps in place (if removed).

Install or Connect

1. Power window electrical connectors (if equipped).
2. Parking brake lever bezel to vehicle; secure with two screws and two plastic retaining clips.
3. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N.m (11 lbs. ft).

SPEEDOMETER CABLE

Figure 22

Remove or Disconnect

1. Negative (-) battery cable.
2. Instrument cluster assembly. Refer to "Instrument Cluster Assembly" earlier in this section.
3. Unhook speedometer cable from heater core housing.
4. Grommet from bulkhead and feed speedometer cable through bulkhead.
5. Raise and suitably support vehicle. Refer to SECTION 0A.
6. Unscrew and remove the speedometer cable from the transfer case (four-wheel drive vehicles) (Figure 21).

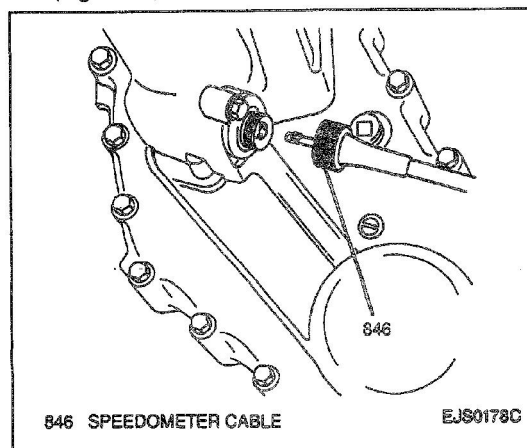


Figure 22—Speedometer Cable Attachment Location (Typical)

8C-16 INSTRUMENT PANEL, GAGES AND CONSOLE

7. Unscrew and remove the speedometer cable from the transmission (two-wheel drive vehicles).
8. Speedometer cable from clamp.
9. Speedometer cable from vehicle.

Install or Connect

1. Speedometer cable to clamp.
2. Speedometer cable to transmission, screw on to secure (two-wheel drive vehicles).
3. Speedometer cable to transfer case, screw on to secure (four-wheel drive vehicles).
4. Lower vehicle.
5. Feed speedometer cable through bulkhead.
6. Grommet to bulkhead.
7. Hook speedometer cable to heater core housing.
8. Instrument cluster assembly. Refer to "Instrument Cluster Assembly" earlier in this section.
9. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft).

TURN/HAZARD RELAY

Figure 23

The turn/hazard relay mounting bracket is attached to the bottom of the blower case on the right side of the instrument panel.

Remove or Disconnect

1. Negative (-) battery cable.
2. Two screws securing turn/hazard relay mounting bracket to the blower case (Figure 23).
3. Turn/hazard relay electrical connector.
4. Slide turn/hazard relay off mounting bracket.

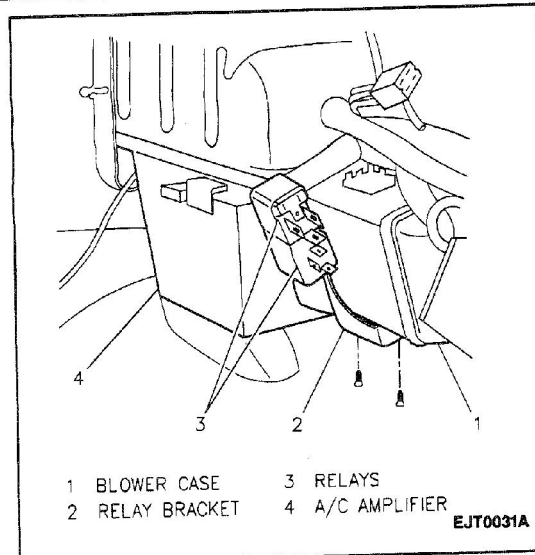


Figure 23—Turn/Hazard Relay and Bracket

Install or Connect

1. Slide the turn/hazard relay onto the mounting bracket.
2. Turn/hazard relay electrical connector.
3. Turn/hazard relay mounting bracket to blower case; secure with two screws.
4. Negative (-) battery cable.

Tighten

- Negative (-) battery cable-to-negative (-) battery terminal retainer to 15 N·m (11 lbs. ft).

SPECIFICATIONS

FASTENER TORQUES

Negative (-) Battery Cable-to-Negative (-) Battery Terminal Retainer.....	15 N·m (11 lbs. ft)
Passenger side SIR module bolts.....	23 N·m (16.5 lbs. ft.)
Passenger side SIR module screws.....	5.5 N·m (4.0 lbs. ft.)