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## SECTION 8A

# SEAT BELTS

**CAUTION:** Disconnect the negative battery cable before removing or installing any electrical unit or when a tool or equipment could easily come in contact with exposed electrical terminals. Disconnecting this cable will help prevent personal injury and damage to the vehicle. The ignition must also be in LOCK unless otherwise noted.

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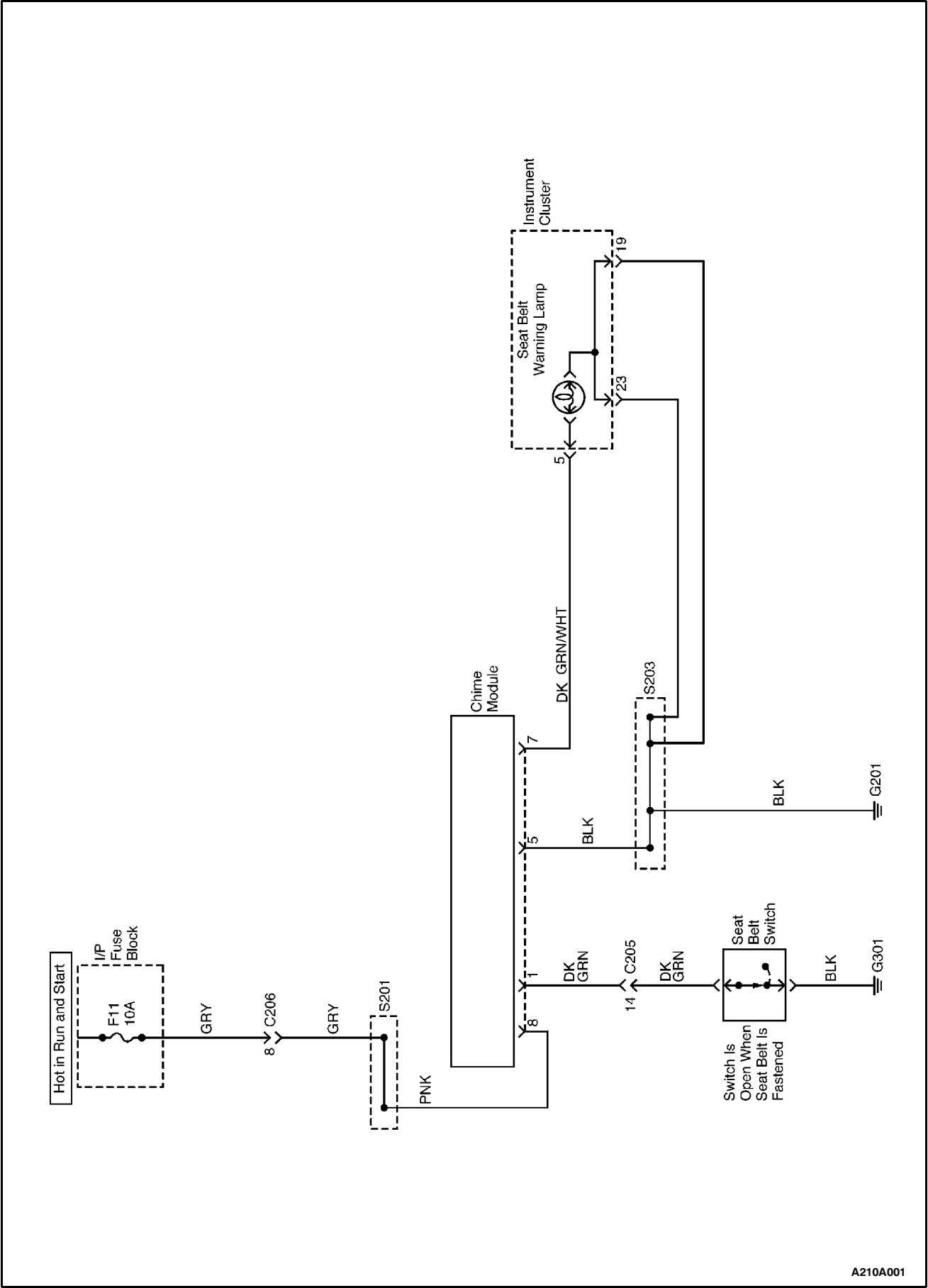
## SPECIFICATIONS

### FASTENER TIGHTENING SPECIFICATIONS

Application	N•m	Lb-Ft	Lb-In
Child Seat Tether Anchor Bolts	25	18	-
Seat Belt Anchor Bolt	35	26	-
Seat Belt Bracket Screws	10	-	89
Seat Belt Height Adjuster Bolts	19	14	-
Seat Belt Retractor Screw	10	-	89

SCHEMATIC AND ROUTING DIAGRAMS

DRIVER SEAT BELT WARNING



A210A001

# DIAGNOSIS

## SEAT BELT WARNING LAMP IS INOPERATIVE

### Diagnostic Aids

The chime module is located above the I/P fuse block.

### Seat Belt Warning Lamp Is Inoperative

Step	Action	Value	Yes	No
1	Check fuse F11. Is fuse F11 blown?	-	Go to Step 2	Go to Step 3
2	1. Check for a short circuit and repair it if necessary. 2. Replace the fuse. Is the repair complete?	-	System OK	-
3	1. Turn the ignition ON. 2. Use a multimeter to check the voltage at fuse F11. Does the voltmeter show the specified value?	11-14 v	Go to Step 5	Go to Step 4
4	Repair the open power supply circuit for fuse F11. Is the repair complete?	-	System OK	-
5	1. Disconnect the chime module connector. 2. Turn the ignition ON. 3. Check the voltage at terminal 8 of the chime module connector. Is the voltage equal to the specified value?	11-14 v	Go to Step 7	Go to Step 6
6	Repair the open circuit between fuse F11 and the chime module. Is the repair complete?	-	System OK	-
7	1. Make sure the seat belt is unfastened. 2. With the chime module connector disconnected, use an ohmmeter to measure continuity between terminal 1 of the chime module and ground. Does the ohmmeter indicate the specified value?	[ 0 W	Go to Step 13	Go to Step 8
8	1. Make sure the seat belt is unfastened. 2. Disconnect the seat belt connector under the driver's seat. 3. Use an ohmmeter to measure between the two terminals at the switch side of the connector. Does the ohmmeter indicate the specified value?	[ 0 W	Go to Step 9	Go to Step 12
9	While the seat belt connector is disconnected, measure the continuity between the terminal for the BLK wire and ground. Does the ohmmeter indicate the specified value?	[ 0 W	Go to Step 10	Go to Step 11
10	Repair the open circuit between the seat belt connector and ground. Is the repair complete?	-	System OK	-
11	Repair the open circuit between the chime module terminal 1 and the seat belt switch. Is the repair complete?	-	System OK	-
12	Replace the seat belt switch. Is the repair complete?	-	System OK	-

## Seat Belt Warning Lamp Is Inoperative (Cont'd)

Step	Action	Value	Yes	No
13	With the chime module disconnected, use an ohmmeter to measure continuity between terminal 5 of the chime module and ground. Does the ohmmeter indicate the specified value?	[ 0 W	Go to Step 15	Go to Step 14
14	Repair the open circuit between terminal 5 of the chime module and ground. Is the repair complete?	-	System OK	-
15	With the chime module disconnected, use an ohmmeter to measure continuity between terminal 7 of the chime module and ground. Does the ohmmeter indicate the specified value?	8	Go to Step 17	Go to Step 16
16	Replace the chime module. Is the repair complete?	-	System OK	-
17	Check the seat belt warning lamp. Is the warning lamp OK?	-	Go to Step 19	Go to Step 18
18	Replace the seat belt warning lamp. Is the repair complete?	-	System OK	-
19	1. Disconnect the instrument cluster connector for terminal 5. 2. Check the continuity between terminal 7 of the chime module and terminal 5 of the instrument cluster connector. Does the ohmmeter indicate the specified value?	[ 0 W	Go to Step 21	Go to Step 20
20	Repair the open circuit between the chime module terminal 7 and the instrument cluster connector terminal 5. Is the repair complete?	-	System OK	-
21	Repair the open circuit between the instrument cluster and splice S203. Is the repair complete?	-	System OK	-

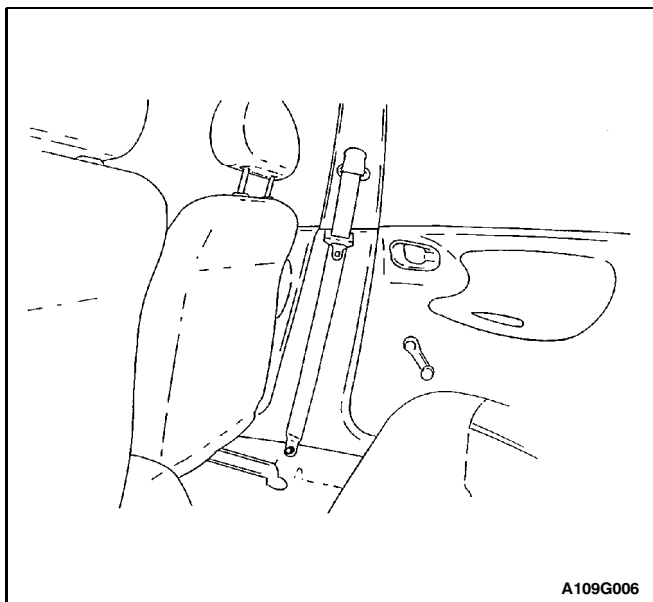
## MAINTENANCE AND REPAIR

### ON-VEHICLE SERVICE

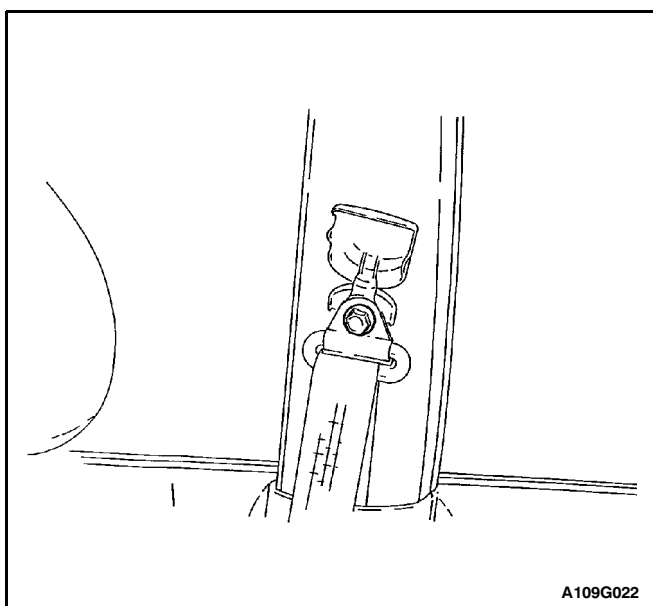
#### THREE-POINT ELR FRONT SEAT BELT (WITH AIRBAG)

##### Removal Procedure

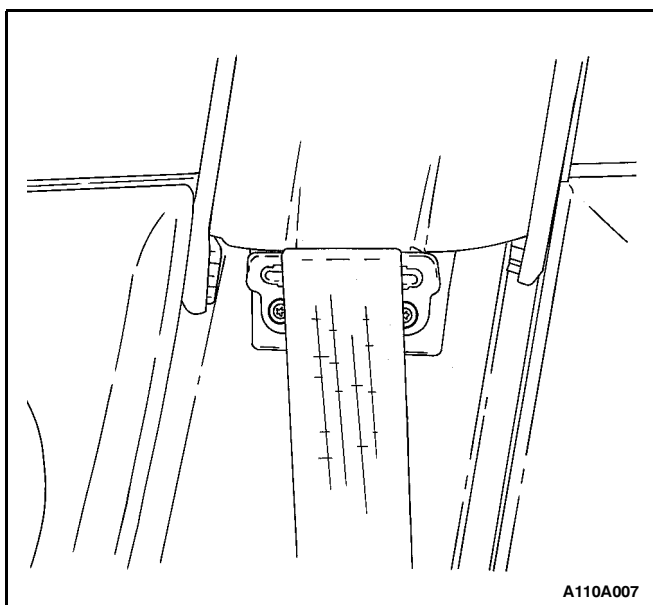
1. Remove the bolt and the seat belt anchor on the lower B-pillar.

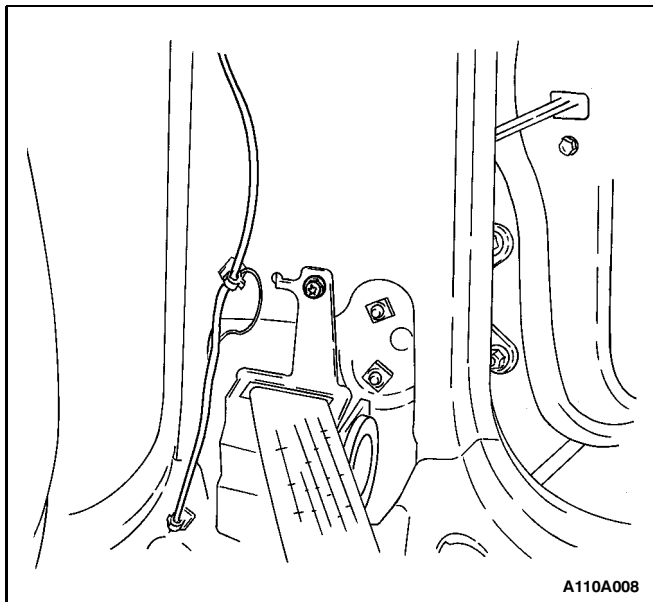


2. Remove the lower B-pillar trim panel. Refer to Section 9G, Interior Trim.
3. Remove the bolt and the seat belt anchor on the upper B-pillar.

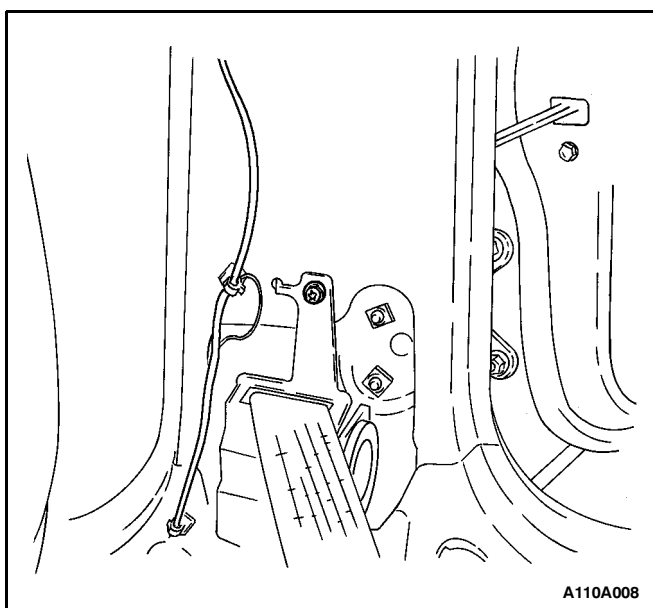


4. Remove the screws and the seat belt bracket.





5. Remove the screw and the seat belt retractor.



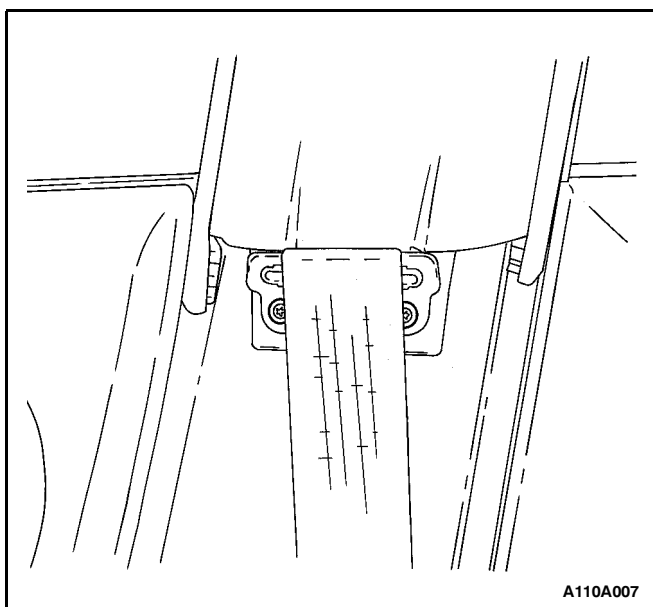
### Installation Procedure

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the seat belt retractor with the screw.

#### Tighten

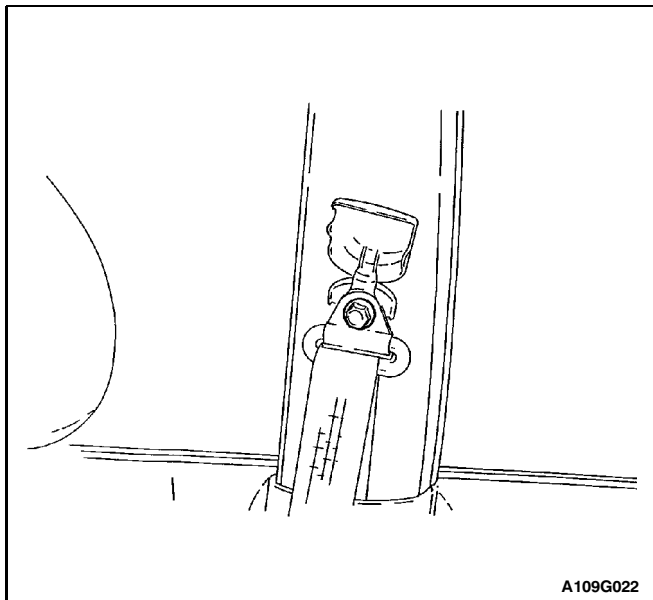
Tighten the seat belt retractor screw to 10 N•m (89 lb-in).



2. Install the seat belt bracket with the screws.

#### Tighten

Tighten the seat belt bracket screws to 10 N•m (89 lb-in).

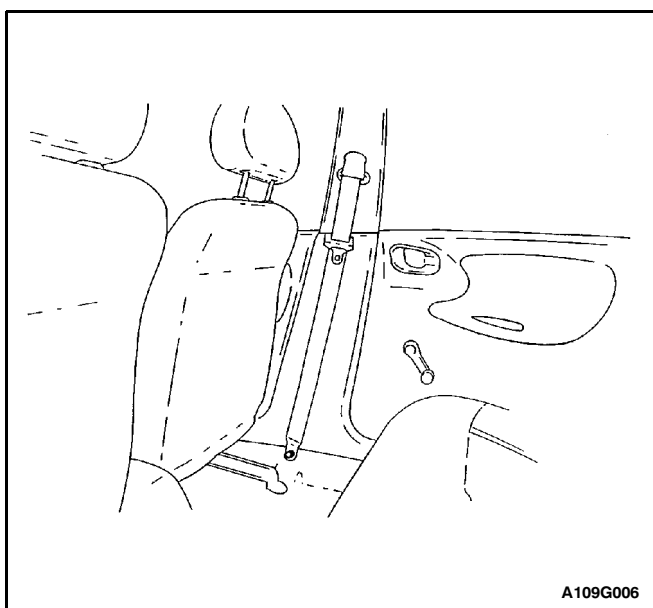


A109G022

3. Install the seat belt anchor to the upper B-pillar with the bolt.

### Tighten

Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).



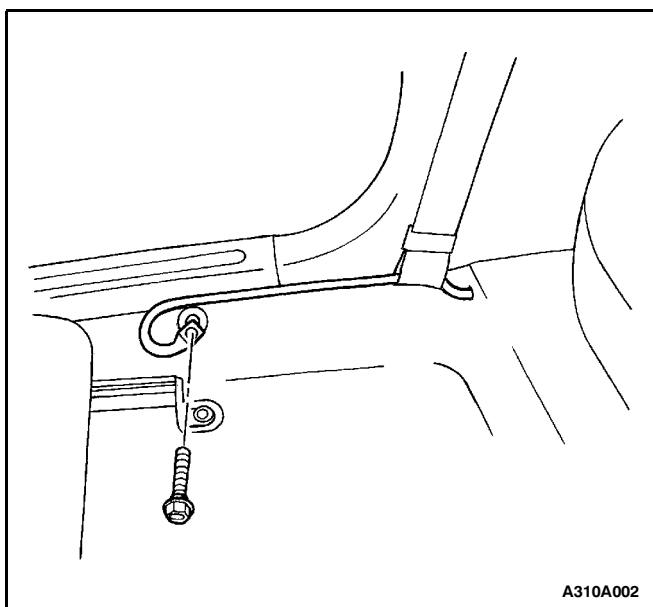
A109G006

4. Install the lower B-pillar trim panel. Refer to Section 9G, Interior Trim.

5. Install the seat belt anchor to the lower B-pillar with the bolt.

### Tighten

Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).



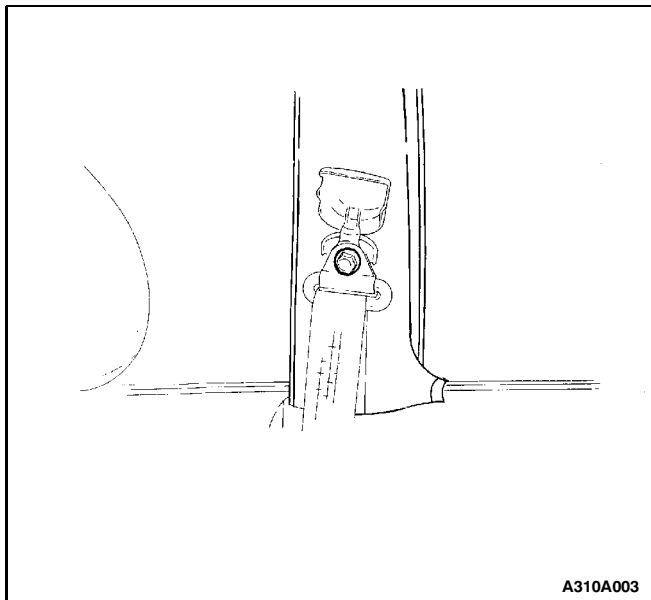
A310A002

## THREE-POINT ELR FRONT SEAT BELT (THREE-DOOR HATCHBACK)

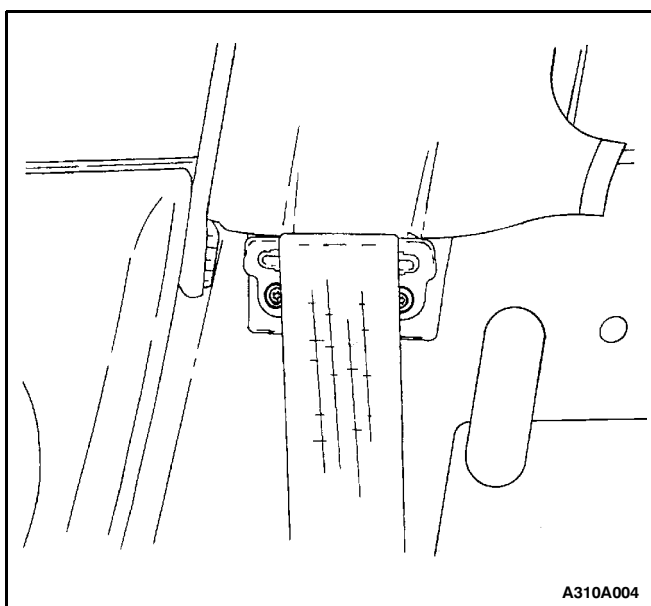
### Removal Procedure

1. Remove the bolt and the seat belt anchor rail.

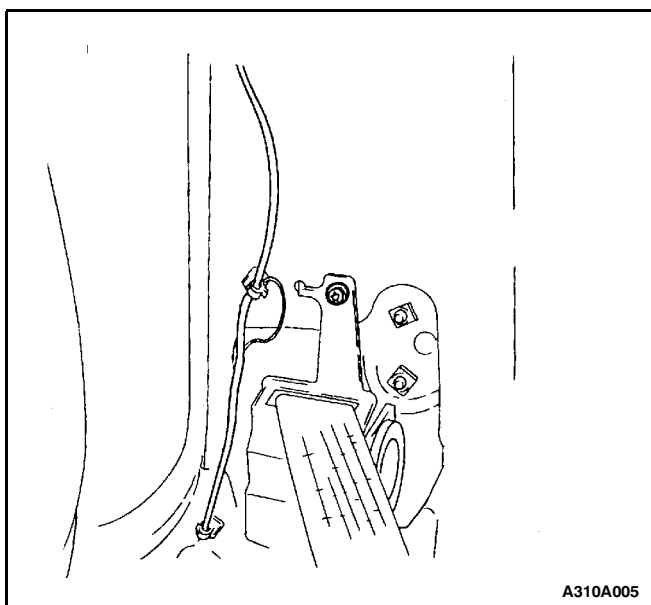
## 8A - 8 SEAT BELTS



2. Remove the lower B-pillar trim panel. Refer to Section 9G, Interior Trim.
3. Remove the bolt and the seat belt anchor on the upper B-pillar.

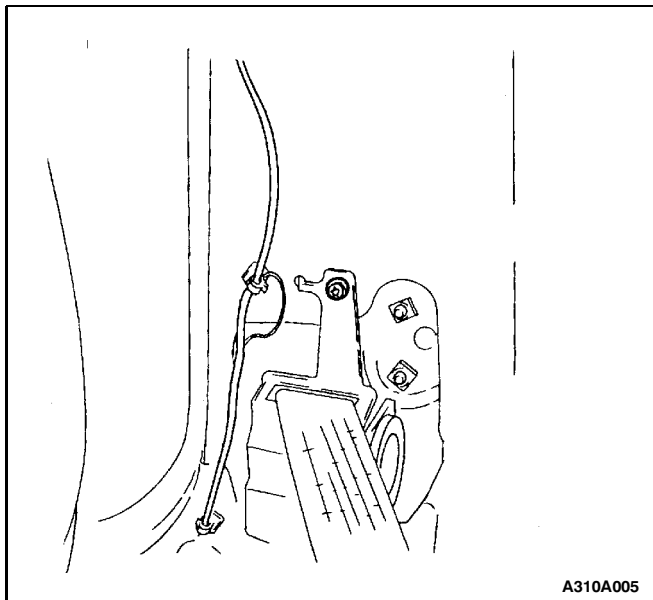


4. Remove the screws and the seat belt bracket.



5. Remove the screw and the seat belt retractor.





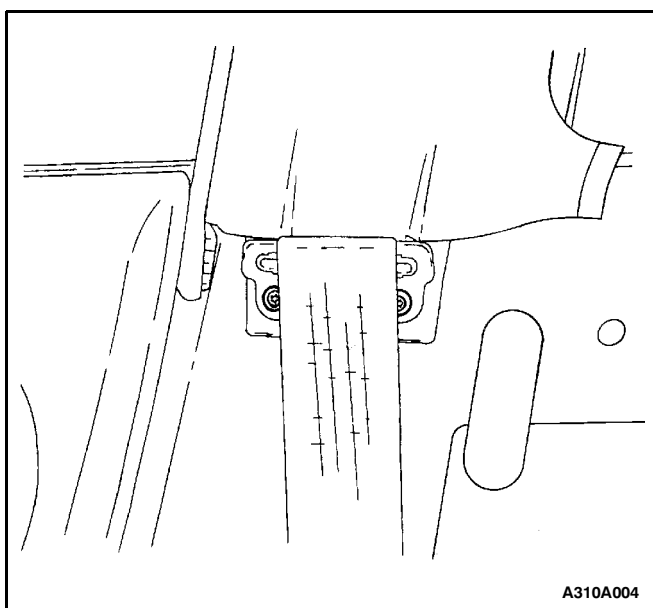
## Installation Procedure

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the seat belt retractor with the screw.

### Tighten

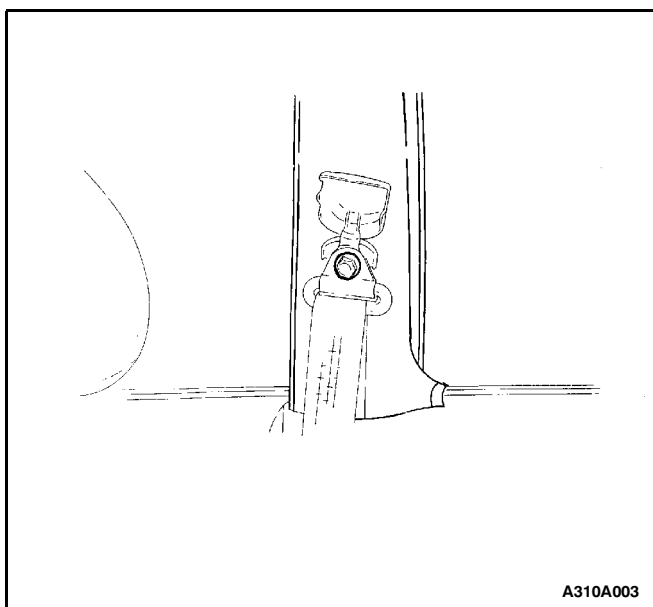
Tighten the seat belt retractor screw to 10 N•m (89 lb-in).



2. Install the seat belt bracket with the screws.

### Tighten

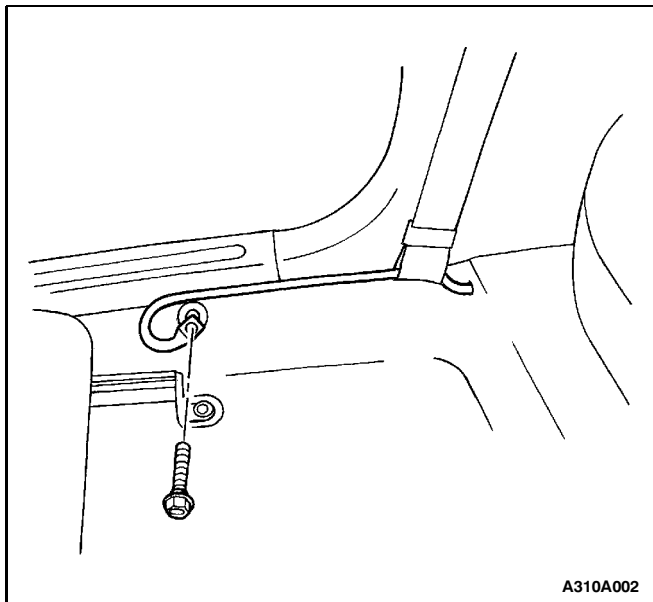
Tighten the seat belt bracket screws to 10 N•m (89 lb-in).



3. Install the seat belt anchor to the upper B-pillar with the bolt.

### Tighten

Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).

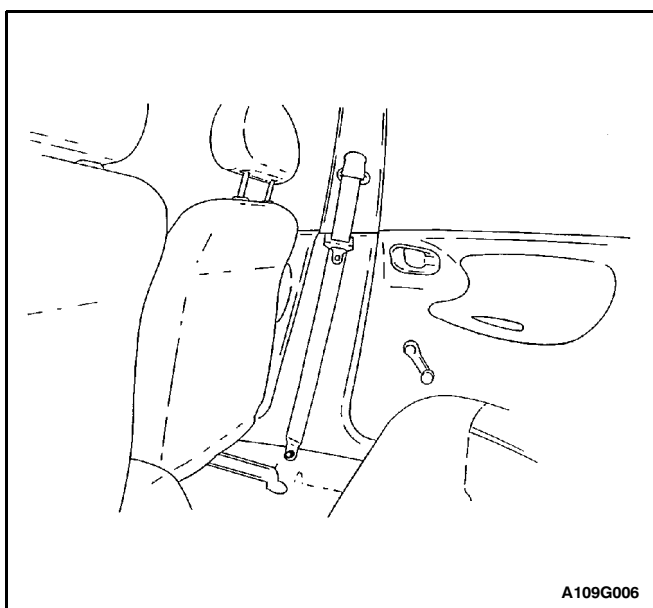


4. Install the lower B-pillar trim panel. Refer to Section 9G, Interior Trim.

5. Install the seat belt anchor rail with the bolt.

### Tighten

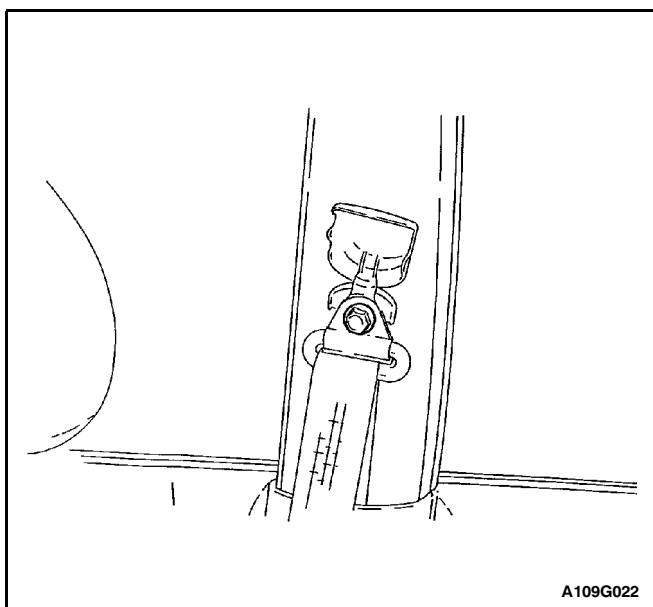
Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).



## THREE-POINT WLR/GCC FRONT SEAT BELT

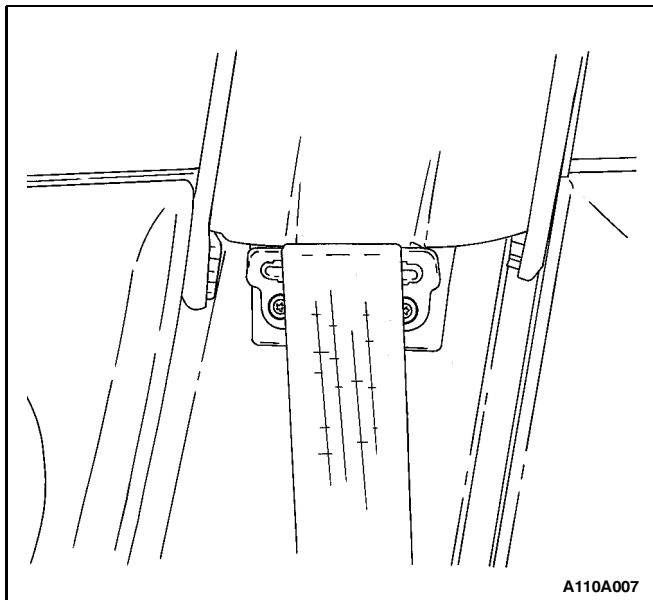
### Removal Procedure

1. Remove the bolt and the seat belt anchor on the lower B-pillar.

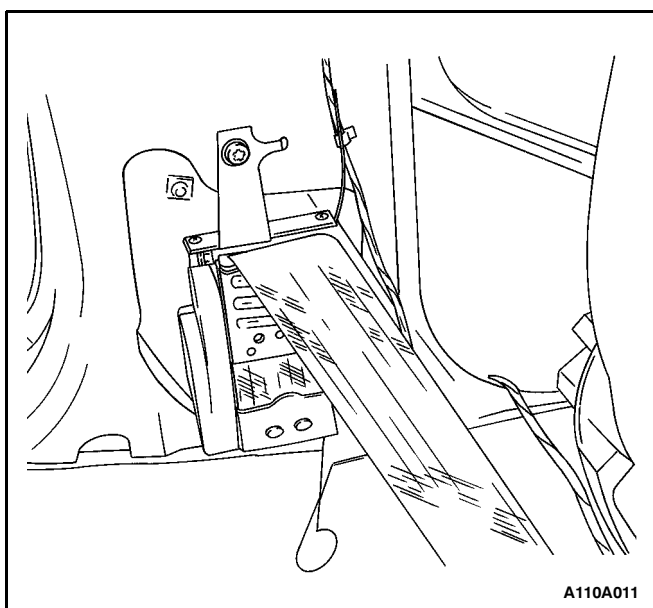


2. Remove the lower B-pillar trim panel. Refer to Section 9G, Interior Trim.

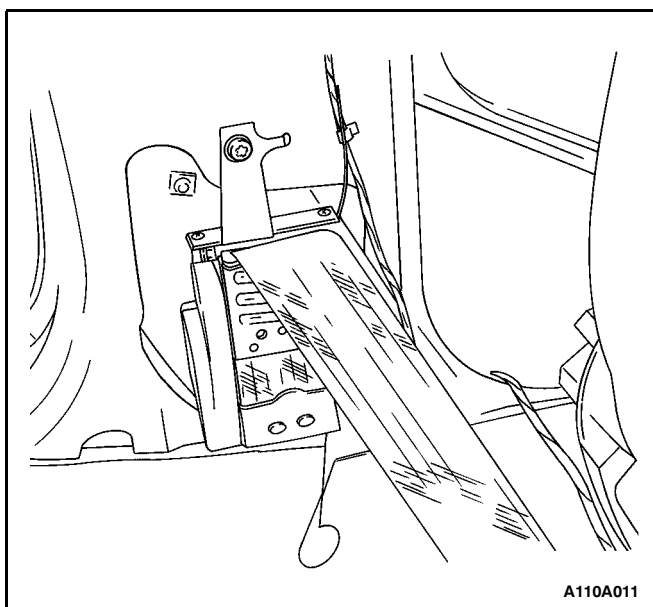
3. Remove the bolt and the seat belt anchor on the upper B-pillar.



4. Remove the screws and the seat belt bracket.



5. Remove the screw and the seat belt retractor.



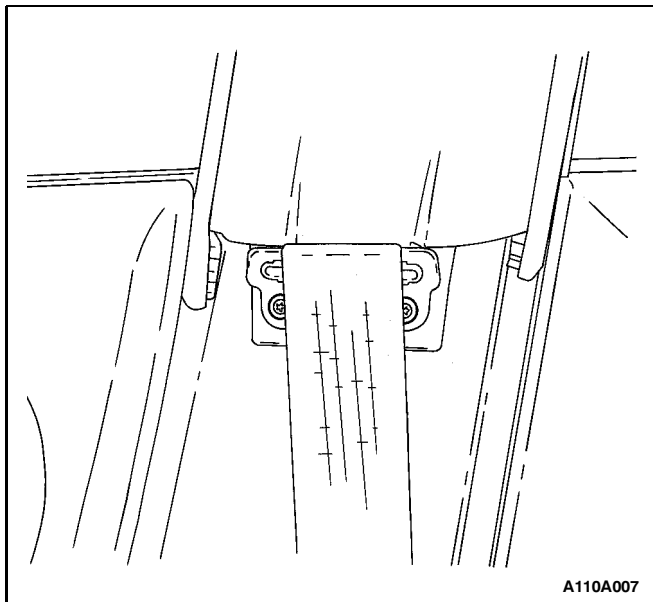
### Installation Procedure

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the seat belt retractor with the screw.

#### Tighten

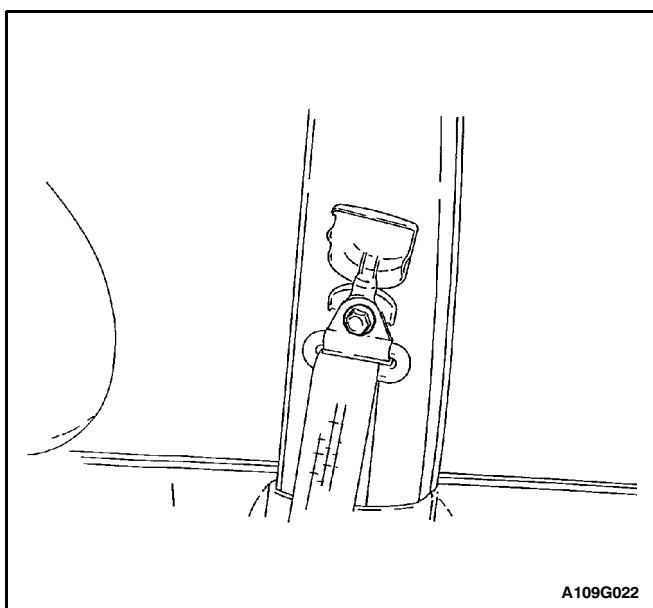
Tighten the seat belt retractor screw to 10 N•m (89 lb-in).



2. Install the seat belt bracket with the screws.

### Tighten

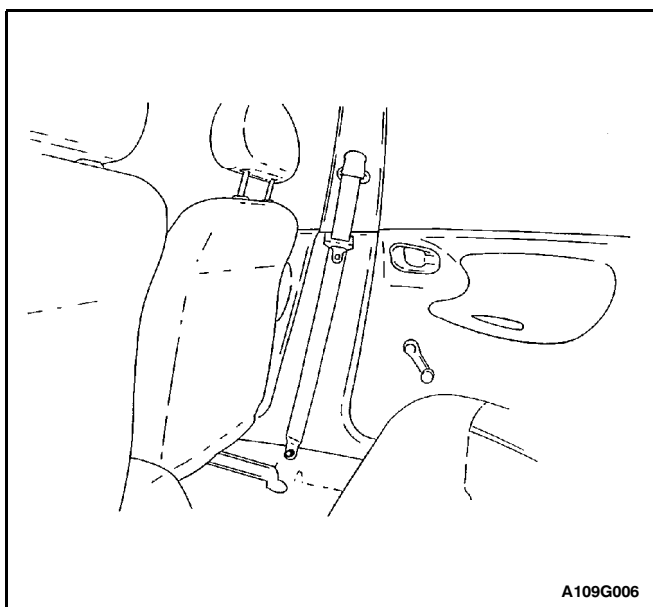
Tighten the seat belt bracket screws to 10 N•m (89 lb-in).



3. Install the seat belt anchor to the upper B-pillar with the bolt.

### Tighten

Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).

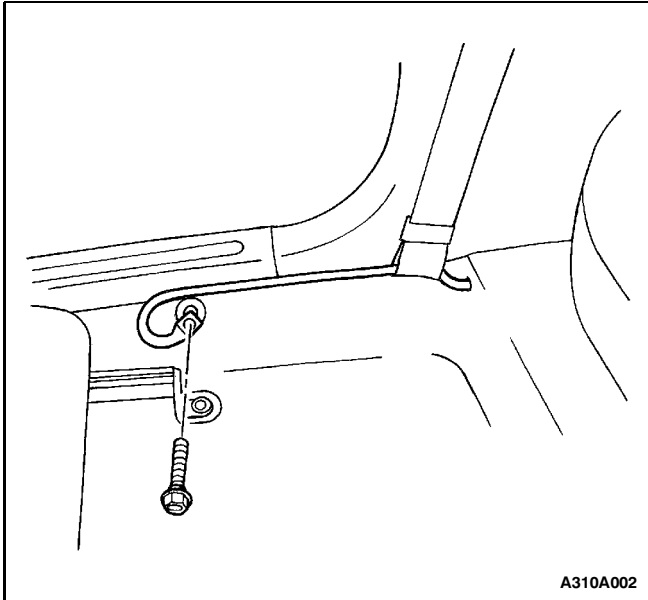


4. Install the lower B-pillar trim panel. Refer to Section 9G, Interior Trim.

5. Install the seat belt anchor to the lower B-pillar with the bolt.

### Tighten

Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).

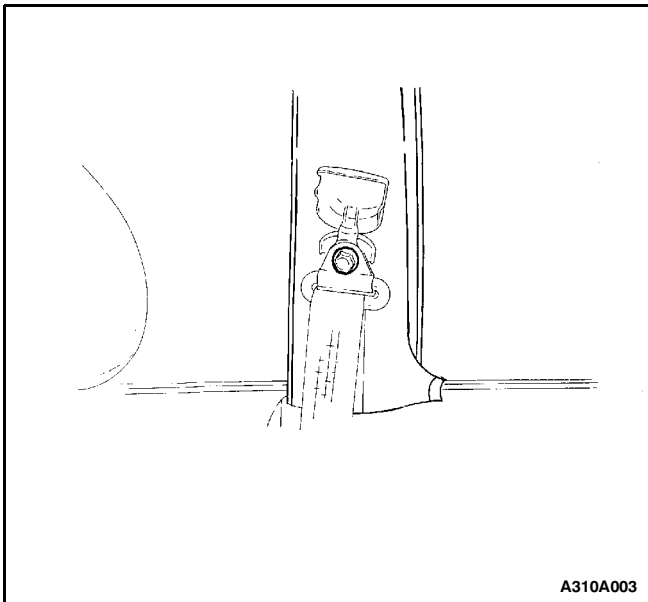


A310A002

## THREE-POINT WLR/GCC FRONT SEAT BELT (THREE-DOOR HATCHBACK)

### Removal Procedure

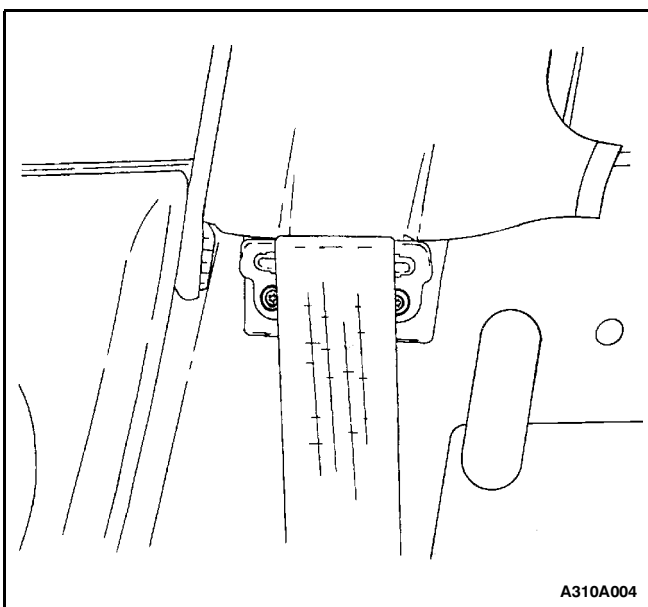
1. Remove the bolt and the seat belt anchor rail.



A310A003

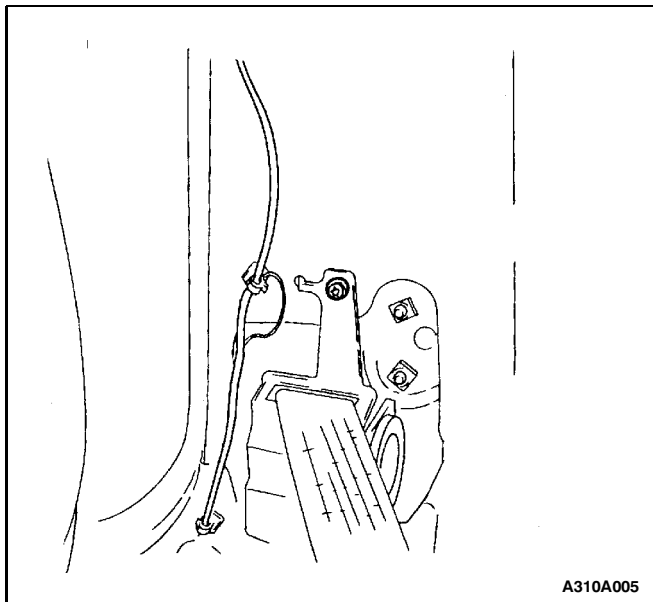
2. Remove the lower B-pillar trim panel. Refer to Section 9G, Interior Trim.

3. Remove the bolt and the seat belt anchor on the upper B-pillar.

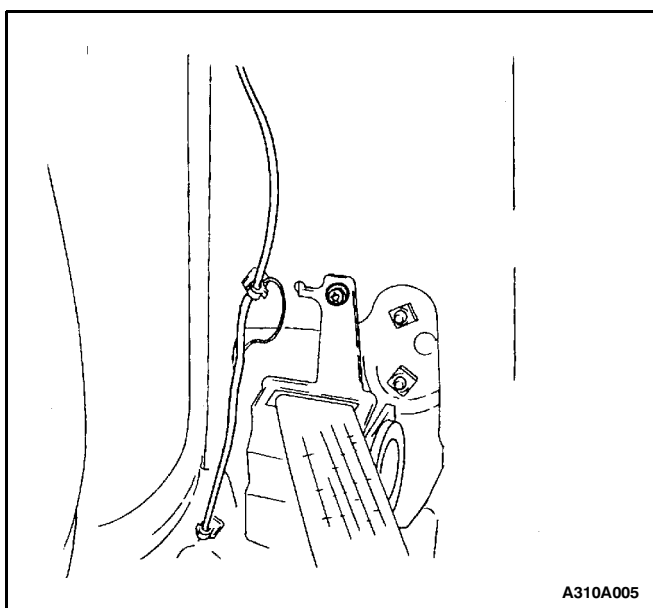


A310A004

4. Remove the screws and the seat belt bracket.



5. Remove the screw and the seat belt retractor.



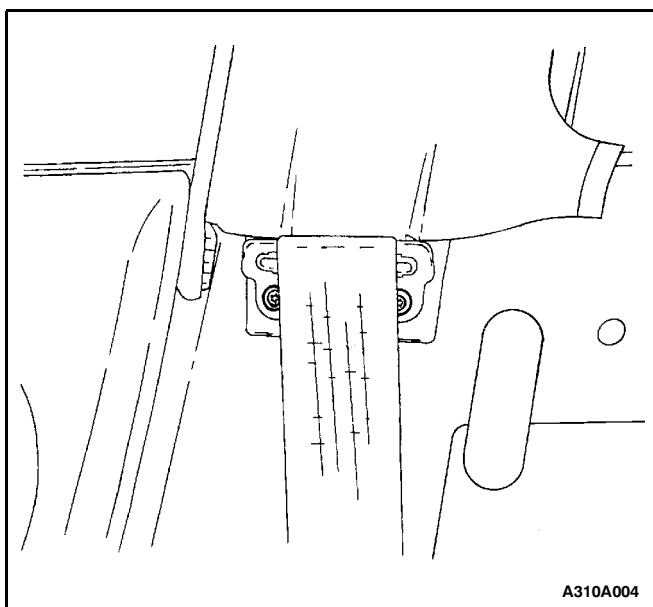
### Installation Procedure

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the seat belt retractor with the screw.

#### Tighten

Tighten the seat belt retractor screw to 10 N•m (89 lb-in).



2. Install the seat belt bracket with the screws.

#### Tighten

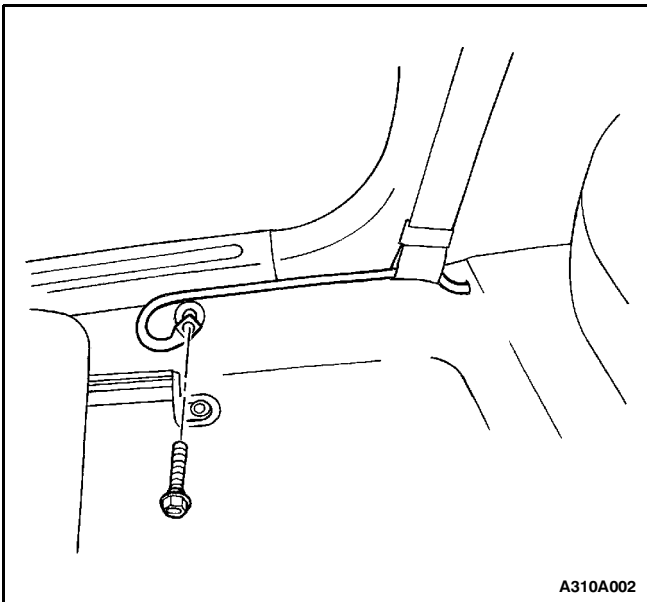
Tighten the seat belt bracket screws to 10 N•m (89 lb-in).



3. Install the seat belt anchor to the upper B-pillar with the bolt.

### **Tighten**

Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).

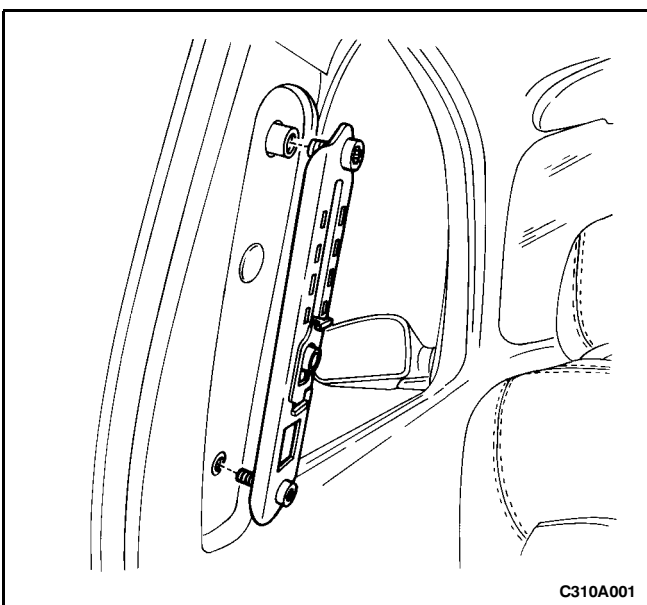


4. Install the lower B-pillar trim panel. Refer to Section 9G, Interior Trim.

5. Install the seat belt anchor rail with the bolt.

### **Tighten**

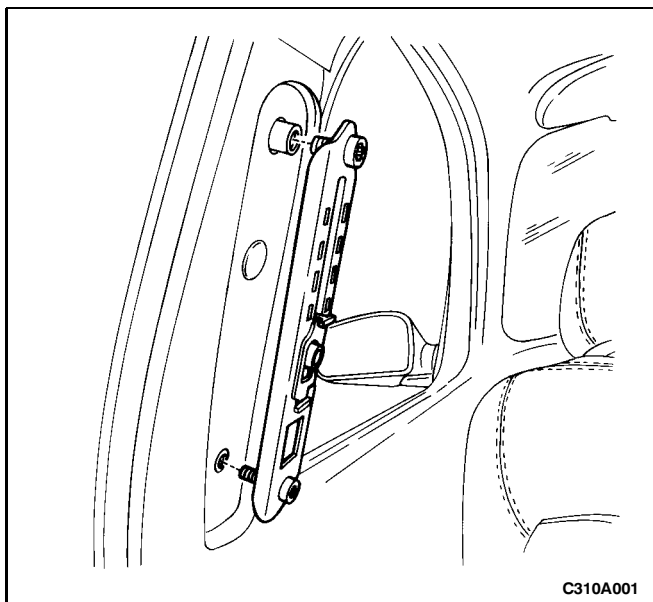
Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).



## **FRONT SEAT BELT HEIGHT ADJUSTER**

### **Removal Procedure**

1. Remove the upper B-pillar trim panel. Refer to Section 9G, Interior Trim.
2. Remove the bolts and the seat belt height adjuster.



## Installation Procedure

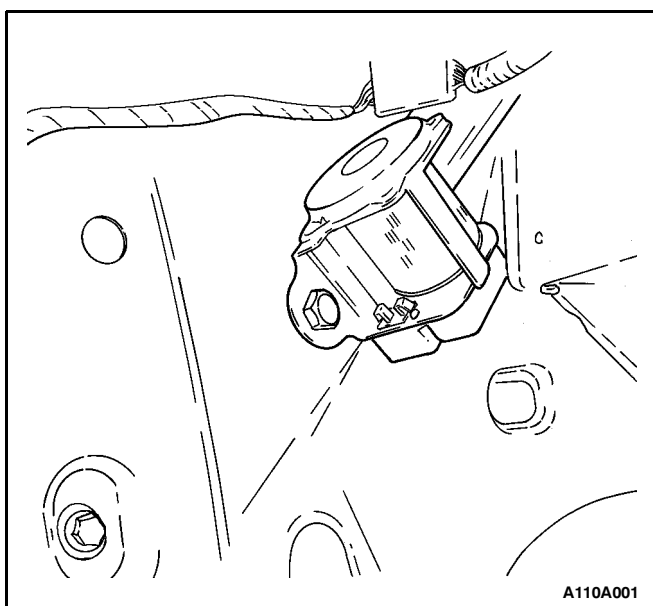
**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the seat belt height adjuster with the bolts.

### Tighten

Tighten the seat belt height adjuster bolts to 19 N•m (14 lb-ft).

2. Install the upper B-pillar trim panel. Refer to Section 9G, Interior Trim.

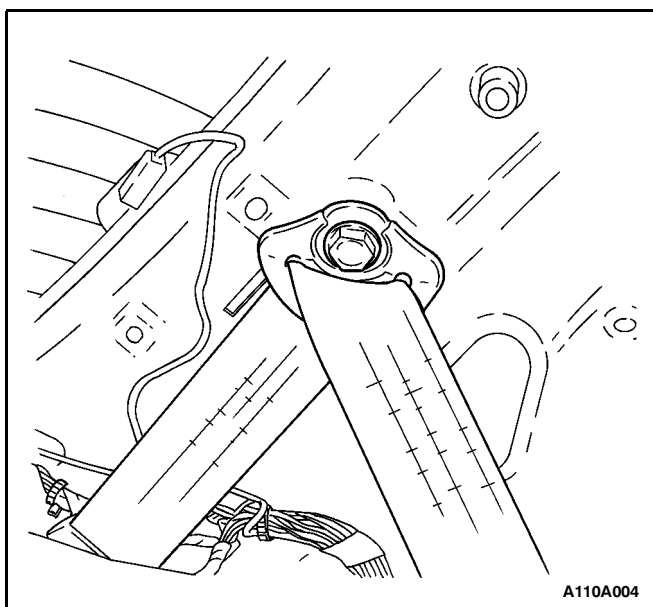


## THREE-POINT ELR REAR OUTBOARD SEAT BELT

(Notchback Shown, Hatchback Similar)

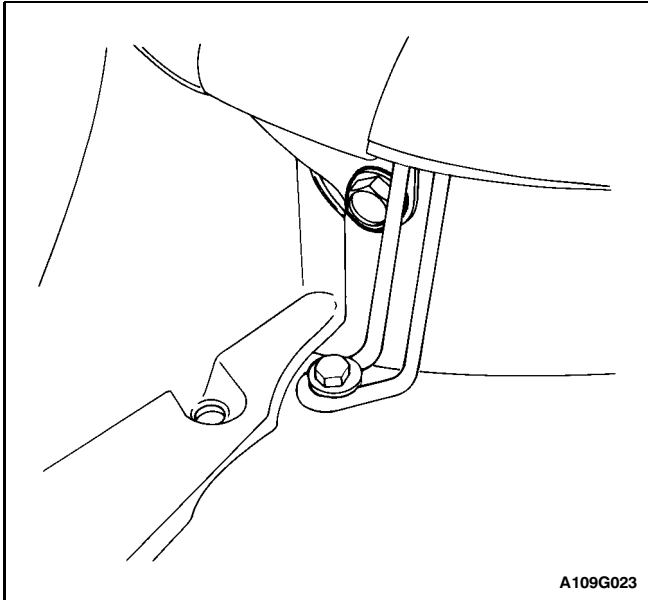
### Removal Procedure

1. Open the luggage compartment.
2. Remove the luggage compartment wheelhouse trim panel. Refer to Section 9G, Interior Trim.
3. Remove the bolt and the seat belt anchor in the luggage compartment.

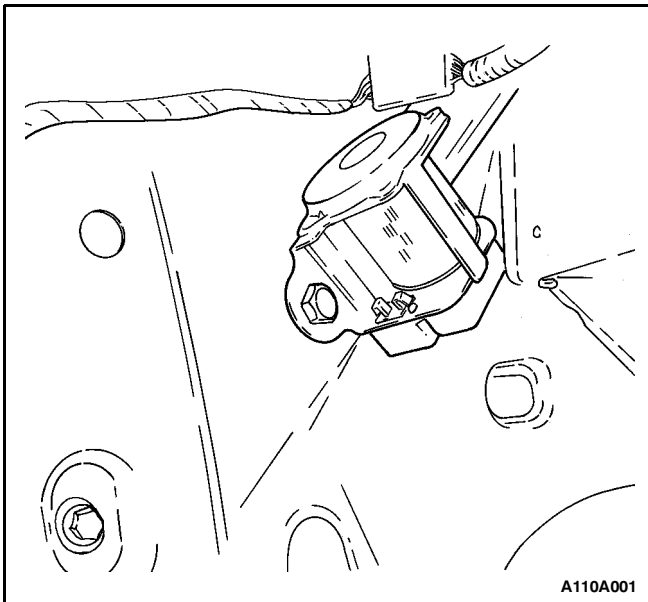


4. Remove the rear seat cushion and the rear seatback. Refer to Section 9H, Seats.
5. Remove the C-pillar trim panel. Refer to Section 9G, Interior Trim.
6. Remove the bolt and the seat belt anchor on the C-pillar.





7. Remove the bolt and the seat belt anchor on the floor.
8. Remove the seat belt.

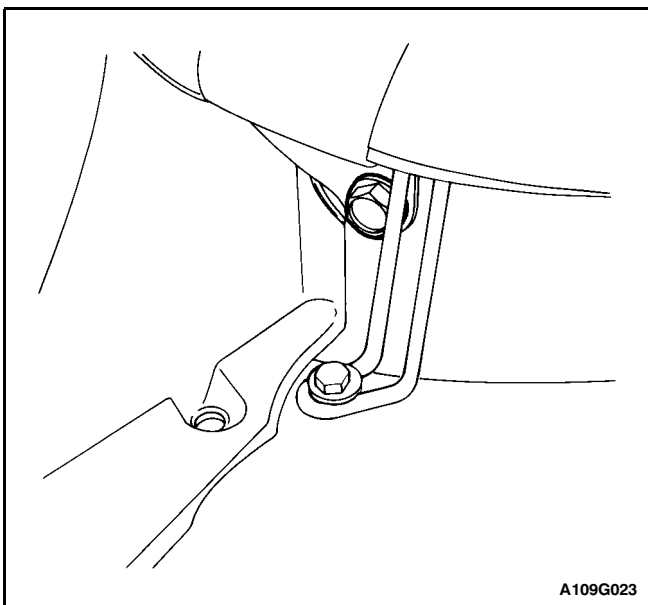


### Installation Procedure

1. Install the seat belt anchor in the luggage compartment with the bolt.

#### Tighten

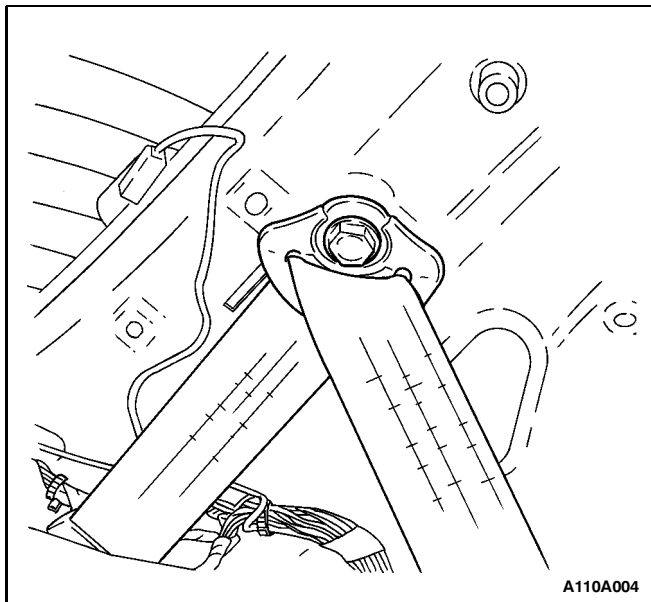
Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).



2. Feed the free end of the seat belt from the luggage compartment through the deck lid sill plate.
3. Feed the free end of the seat belt through the C-pillar trim panel.
4. Install the seat belt anchor to the floor with the bolt.

#### Tighten

Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).

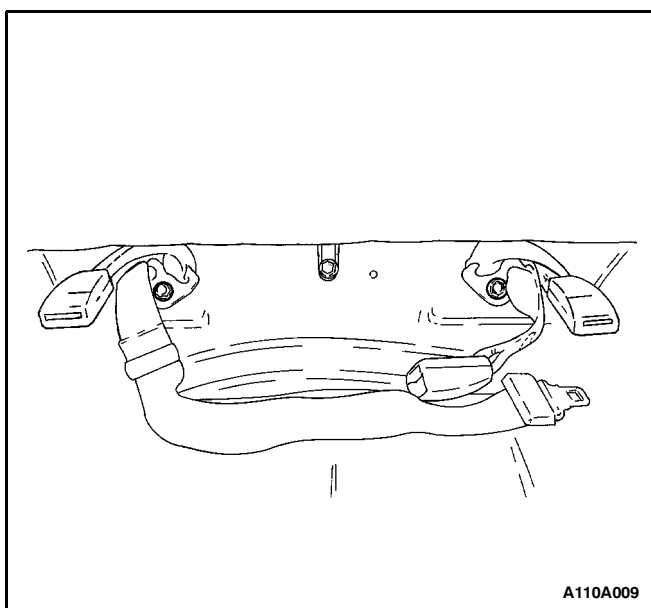


5. Install the seat belt anchor to the C-pillar with the bolt.

### Tighten

Tighten the seat belt anchor bolt to 35 N•m (26 lb-ft).

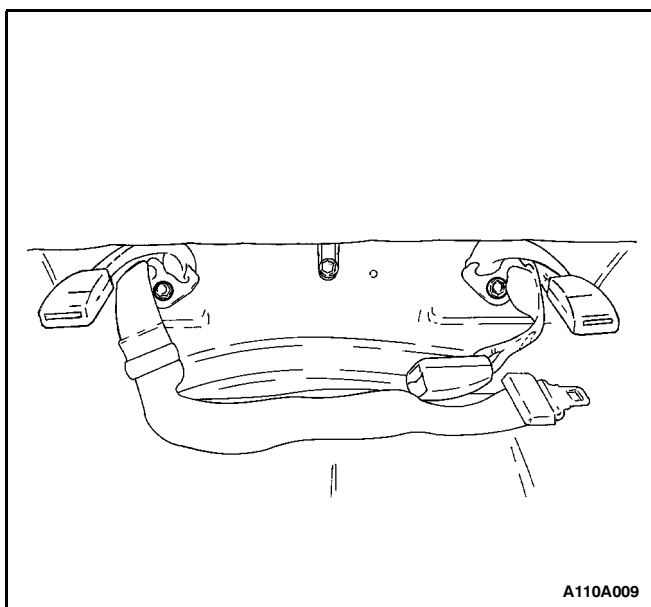
6. Install the C-pillar trim panel. Refer to Section 9G, Interior Trim.
7. Install the rear seat cushion and rear seatback. Refer to Section 9H, Seats.
8. Install the luggage compartment wheelhouse trim panel. Refer to Section 9G, Interior Trim.



## TWO-POINT LAP REAR CENTER SEAT BELT

### Removal Procedure

1. Remove the rear seat cushion. Refer to Section 9H, Seats.
2. Remove the bolts and the seat belt anchors.



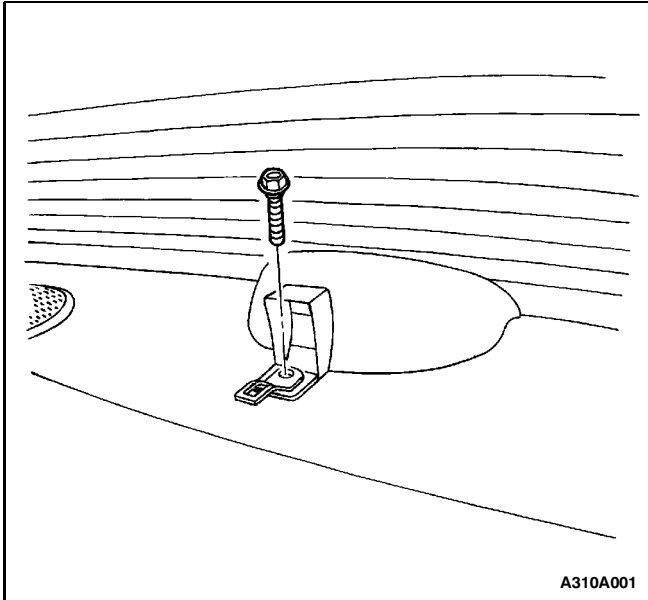
### Installation Procedure

1. Install the seat belt anchors with the bolts.

### Tighten

Tighten the seat belt anchor bolts to 35 N•m (26 lb-ft).

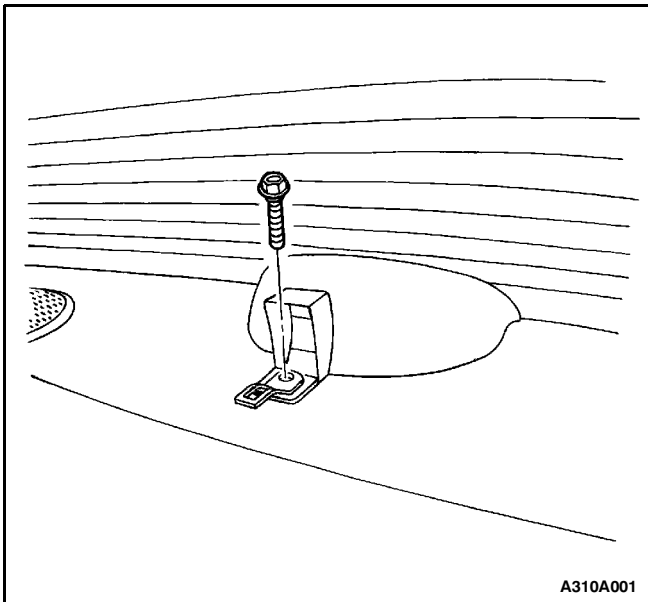
2. Install the rear seat cushion. Refer to Section 9H, Seats.



## CHILD SEAT TETHER ANCHOR

### Removal Procedure

1. Open the tether anchor access cap.
2. Remove the bolt and the tether anchor.



### Installation Procedure

**Notice:** Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

1. Install the tether anchor with the bolt.

#### Tighten

Tighten the child seat tether anchor bolt to 25 N•m (18 lb-ft).

2. Close the tether anchor access cap.

## GENERAL DESCRIPTION AND SYSTEM OPERATION

### DRIVER SEAT BELT WARNING

The driver's safety belt incorporates a safety belt reminder light in the instrument cluster to remind the driver if the safety belt is not fastened when the ignition is turned ON.

### THREE-POINT WLR FRONT SEAT BELT

The three-point web locking retractor (WLR) seat belt will limit the movement of the driver and offer better protection in an accident.

### THREE-POINT ELR FRONT SEAT BELT (WITH AIRBAG)

The three-point emergency locking retractor (ELR) front seat belt is always unlocked, allowing the passenger freedom of movement, except in emergencies (rapid deceleration, rapid acceleration, or hard cornering maneuvers).

### THREE-POINT ELR REAR OUTBOARD SEAT BELT

The rear outboard seating positions use the three-point emergency locking retractor (ELR) seat belts. The three-point emergency locking retractor (ELR) seat belt is always unlocked, allowing the passenger freedom of movement, except in emergencies (rapid deceleration, rapid acceleration, or hard cornering maneuvers).

### TWO-POINT LAP REAR CENTER SEAT BELT

The two-point lap rear center seat belt is a single continuous length of webbing. The webbing is routed from the anchor through a latch plate and into a single retractor.

### OPERATIONAL AND FUNCTIONAL CHECKS

Caution:

- Keep sharp objects and potentially damaging objects away from the seat belts.
  - Avoid bending or damaging any portion of the buckle or the latch plate.
  - Do not bleach or dye the belt webbing. Use only mild soap and water in order to clean the belts.
  - When installing the seat belt anchor bolts and the screws, start the bolts and the screws by hand in order to prevent crossthreading.
  - Do not attempt any repairs on the retractor mechanisms or the covers. Replace any defective assemblies with new assemblies.
  - Replace any belts that are cut or damaged in any way.
1. Inspect all seat belt anchor bolts and the screws in order to verify that they are secure.
  2. Inspect the seat belt buckle. The buckle must lock and unlock easily.
  3. After inserting the latch into the buckle, tug sharply on the belt. The buckle must remain locked.
  4. Fully extend the shoulder belt portion to make sure that there is no twisting or tears in the belt.
  5. Let the shoulder belt retract fully. The belt should retract easily.

### CHILD SEAT TETHER ANCHOR

There are three child seat tether anchors located on the rear deck lid sill plate. There is one anchor for each rear seat position.