

## Fastener Tightening Specifications

Application	Specification	
	Metric	English
Center Seat Belt Retractor Bolts	52 N·m	38 lb ft
Center Seat Belt Retractor Trim Cover Bolt	1.5 N·m	13 lb in
Seat Belts and Buckles to the Seat Frame Bolts	40 N·m	30 lb ft
Seat Belt Guide to the Vehicle Bolt	52 N·m	38 lb ft
Seat Belt Height Adjuster to the Vehicle Bolts	26 N·m	19 lb ft
Shoulder/Seat Belt Retractor to the Vehicle Lower Bolt (8mm bolt)	10 N·m	89 lb in
Shoulder/Seat Belt Retractor to the Vehicle Upper Bolt (12mm bolt)	52 N·m	38 lb ft

## Repairs and Inspections Required After a Collision

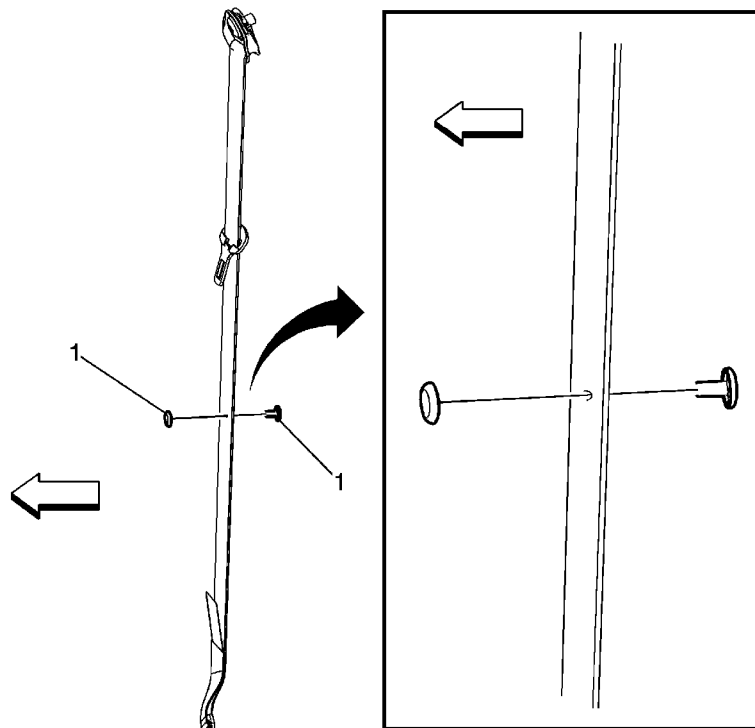
**Warning:** Restraint systems can be damaged in a collision. To help avoid injury and ensure that all parts in need of replacement are replaced:

- Replace any seat belt system that was in use during the collision serious enough to deploy any automatic restraint device such as air bags and seat belt pretensioners. This not only includes seat belt systems in use by people of adult size, but seat belt systems used to secure child restraints, infant carriers and booster seats, including LATCH system and top tether anchorages.
- Replace any seat belt system that has torn, worn, or damaged components. This not only includes adult seat belt systems, but built-in child restraints and LATCH system components, if any.
- Replace any seat belt system if you observe the words "REPLACE" or "CAUTION", or if a yellow tag is visible. Do not replace a seat belt if only the child seat caution label is visible.
- Replace any seat belt system if you are doubtful about its condition. This not only includes adult seat belt systems, but built-in child restraints, LATCH system components, and any restraint system used to secure infant carriers, child restraints, and booster seats.

Do NOT replace single seat belt system components in vehicles that have been in a collision as described above. Always replace the entire seat belt system with the buckle, guide and retractor assembly, which includes the latch and webbing material.

After a minor collision where no automatic restraint device was deployed, seat belt system replacement may not be necessary, unless some of the parts are torn, worn, or damaged.

## Seat Belt Latch Stop Installation



Callout	Component Name
<b>Preliminary Procedure</b>	
<ol style="list-style-type: none"><li>1. Locate the hole in the seat belt webbing where the original seat belt stop button was located.</li><li>2. If the original hole in the seat belt webbing is not visible, perform the following:<ul style="list-style-type: none"><li>• If either the right or left stop button is missing use the opposing seat belt as a reference.</li><li>• With the opposing seat belt fully stowed, measure the distance between the seat belt lower anchor and the stop button.</li><li>• Using the measurement obtained above, measure and mark the location of the missing stop button on the center of the seat belt webbing.</li></ul></li><li>3. Ensure the seat belt latch plate is located above the mark or original hole.</li></ol>	
	<b>Seat Belt Stop Button</b>
	<b>Procedure</b>
	<ol style="list-style-type: none"><li>1. Work the male half of the stop button through the hole in the webbing or at the marked location.</li><li>2. Align the female half of the stop button with the male half of the stop button.</li></ol>

© 2010 General Motors Corporation. All rights reserved.

1

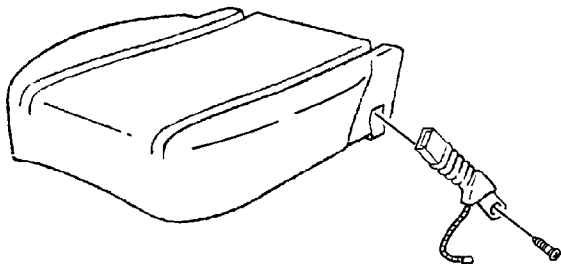
3. Snap the two halves together.
4. Trim off any excess of the male half of the stop button flush with the female half of the stop button.

**Tip**

Ensure the male half of the stop button is facing forward in the vehicle in order to ensure the stop button will not snag customers clothing.

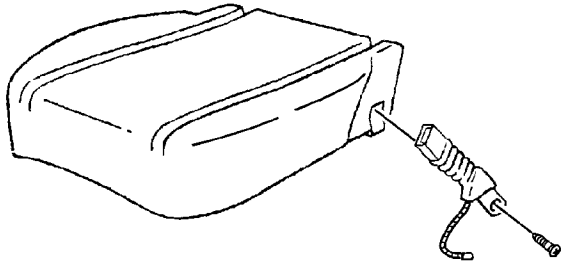
## Driver or Passenger Seat Belt Buckle Replacement

### Removal Procedure



1. Lift the buckle cover.
2. Remove the seat belt buckle retaining bolt from the seat.
3. Disconnect the electrical connector from the seat belt buckle, if equipped.
4. Remove the seat belt buckle from the seat.

### Installation Procedure

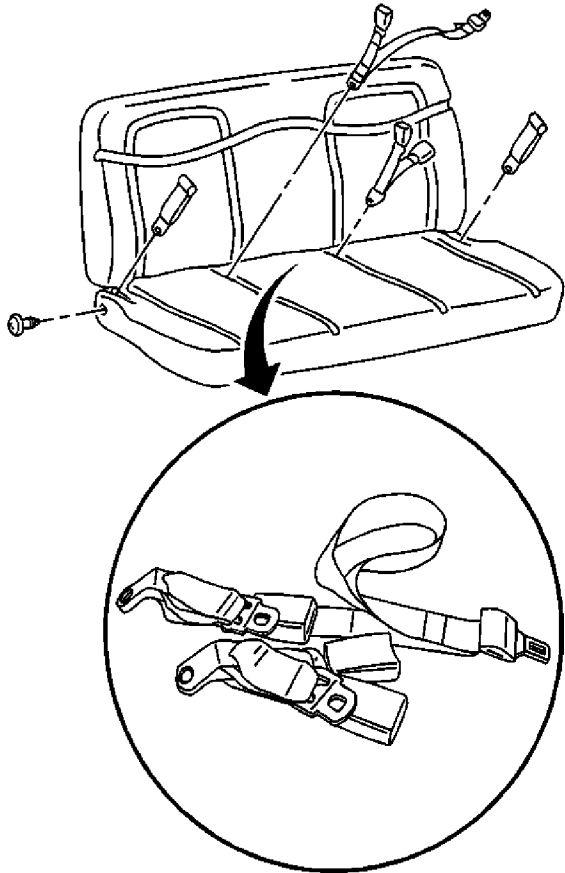


1. Install the seat belt buckle to the seat.
2. Connect the electrical connector to the seat belt buckle, if equipped.
3. Lift the buckle cover.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

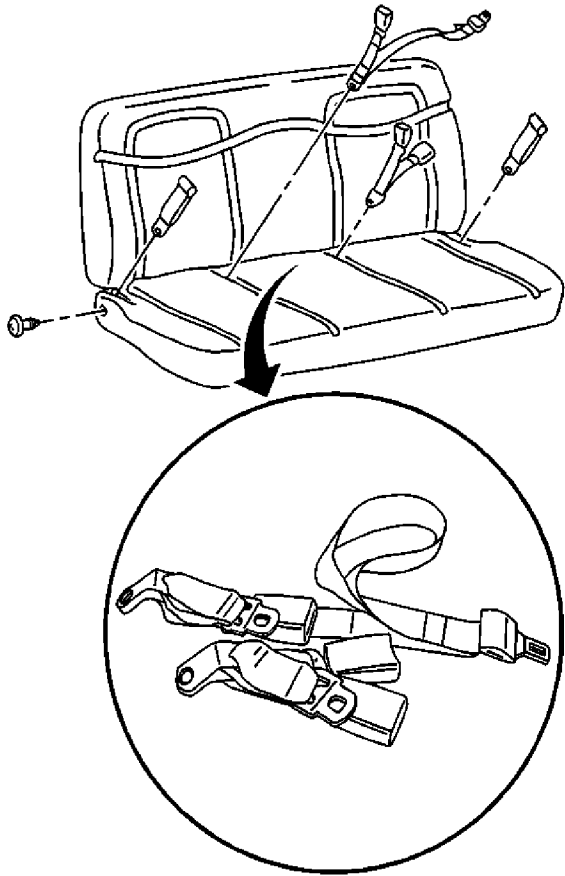
4. Install the seat belt buckle retaining bolt to the seat and tighten to **52 N·m (38 lb ft)**.

## Rear Seat Belt Buckle Replacement (All Except Luxury) Removal Procedure



1. Partially remove the seat cushion cover in order to gain access to the seat belt buckle retaining bolt.
2. Remove the seat belt buckle retaining bolt from the seat frame.
3. Remove the seat belt buckle from the seat frame.

## Installation Procedure



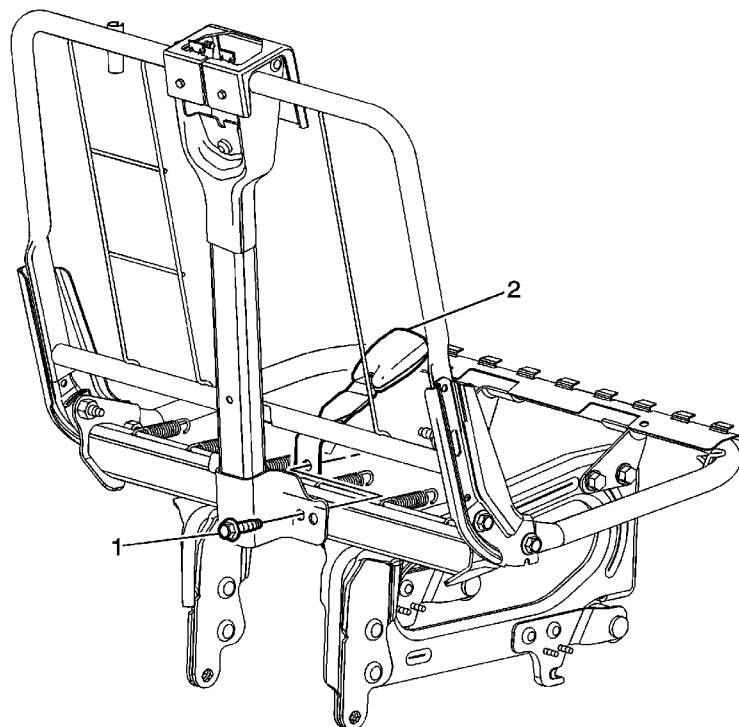
1. Install the seat belt buckle to the seat frame.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt buckle retaining bolt to the seat frame and tighten to **40 N·m (30 lb ft)**.
3. Install the seat cushion cover to the seat frame.

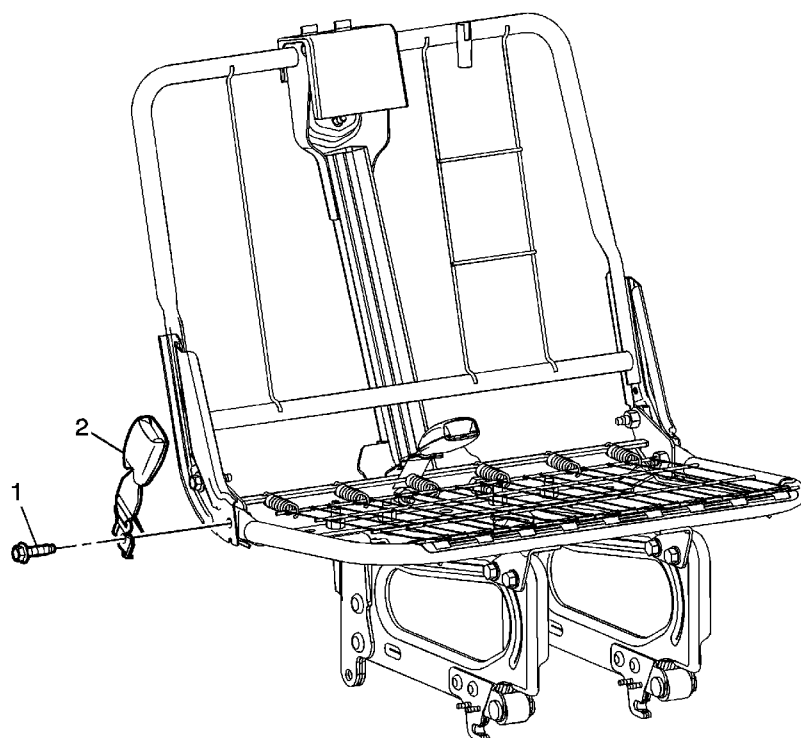


## Rear Seat Center Belt Buckle Replacement (with Split Bench Seat)



Callout	Component Name
1	<p>Rear Seat Belt Buckle Bolt</p> <p><b>Caution:</b> Refer to <a href="#">Fastener Caution</a> in the Preface section.</p> <p><b>Procedure</b></p> <p>Disengage the bottom of the rear seat back cover to access the bolt.</p> <p><b>Tighten</b> 40 N·m (30 lb ft)</p>
2	Rear Seat Belt Buckle

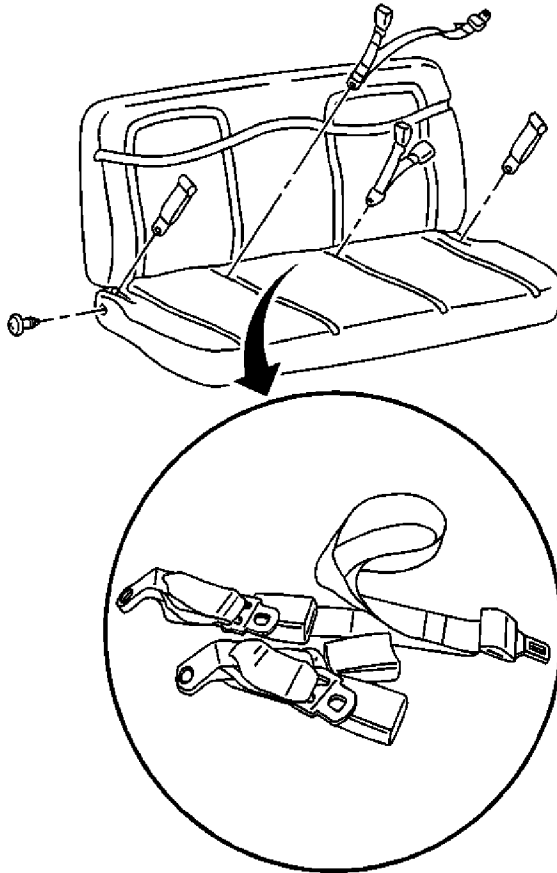
## Seat Belt Side Buckle Replacement - Rear (with Split Bench Seat)



Callout	Component Name
<b>Preliminary Procedure</b>	
Remove the rear seat cushion cover and pad. Refer to <a href="#">Rear Seat Cushion Cover and Pad Replacement</a> .	
1	Rear Seat Belt Buckle Bolt <b>Caution:</b> Refer to <a href="#">Fastener Caution</a> in the Preface section. <b>Tighten</b> 40 N·m (30 lb ft)
2	Rear Seat Belt Buckle

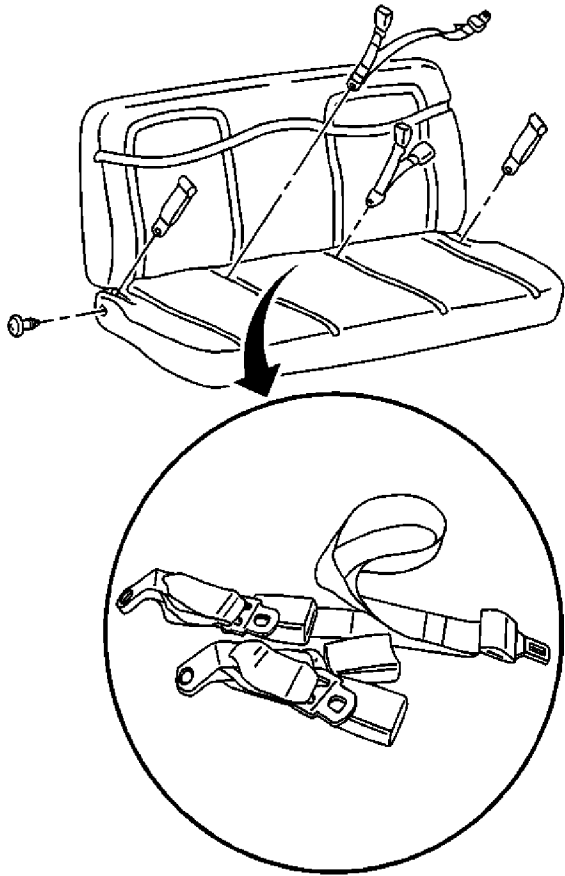
## Seat Belt Replacement - Center Rear (with Bench Seat)

### Removal Procedure



1. Partially remove the seat cushion cover in order to gain access to the seat belt/buckle retaining bolt.
2. Remove the seat belt/buckle retaining bolt from the seat frame.
3. Remove the seat belt/buckle from the seat frame.

### Installation Procedure

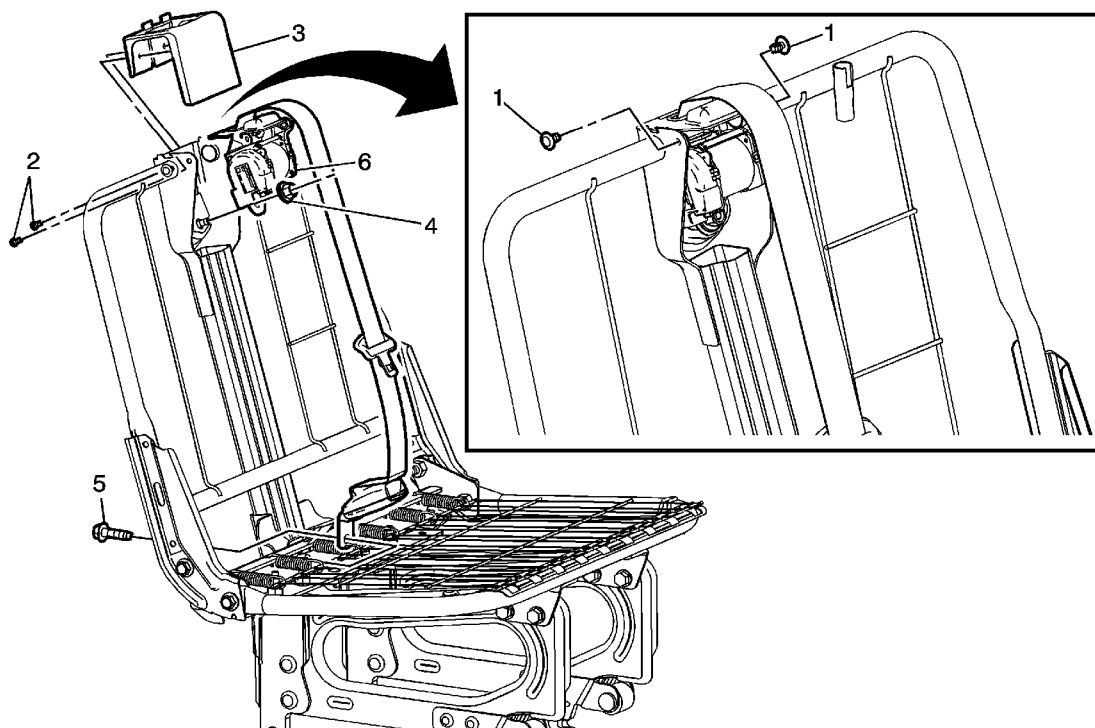


1. Install the seat belt/buckle to the seat frame.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt/buckle retaining bolt to the seat frame and tighten to **52 N·m (38 lb ft)**.
3. Install the seat cushion cover to the seat frame.

## Seat Belt Replacement - Center Rear (with Split Bench)



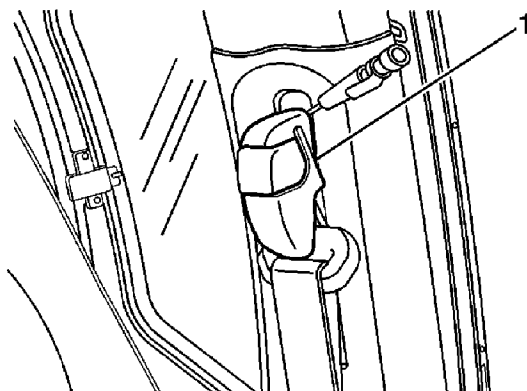
Callout	Component Name
<b>Preliminary Procedures</b> <ol style="list-style-type: none"> <li>1. Remove the rear seat. Refer to <a href="#">Rear Bench Seat Replacement</a>.</li> <li>2. Remove the rear back cushion cover and pad. Refer to <a href="#">Rear Seat Back Cushion Cover and Pad Replacement</a>.</li> <li>3. Remove the rear cushion cover and pad. Refer to <a href="#">Rear Seat Cushion Cover and Pad Replacement</a>.</li> </ol>	
1	Rear Seat Shoulder Belt Retainer (Qty: 2)
2	Rear Seat Should Belt Cover Bolt (Qty: 2)  <b>Caution:</b> Refer to <a href="#">Fastener Caution</a> in the Preface section.  <b>Tighten</b> 2 N·m (18 lb in)
3	Rear Seat Should Belt Cover
4	Rear Seat Shoulder Belt Nut  <b>Tighten</b> 52 N·m (48 lb ft)

© 2010 General Motors Corporation. All rights reserved.

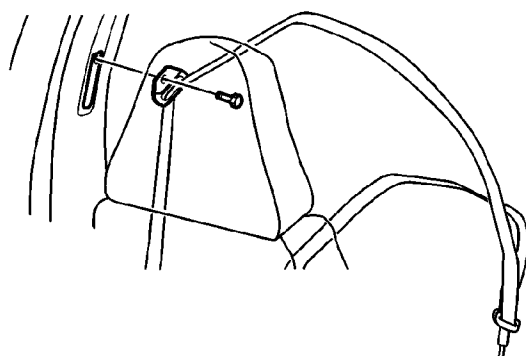
5	Rear Seat Shoulder Belt Anchor Bolt <b>Tighten</b> 52 N·m (48 lb ft)
6	Rear Seat Shoulder Belt Assembly

## Seat Belt Height Adjuster Replacement - Front

### Removal Procedure

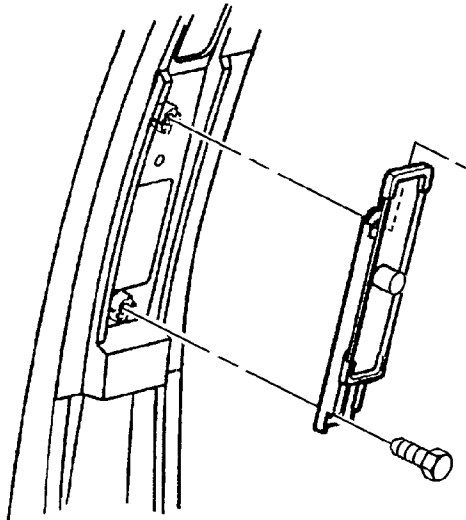


1. Using a flat bladed tool, remove the shoulder/seat belt guide to the guide trim cover (1).



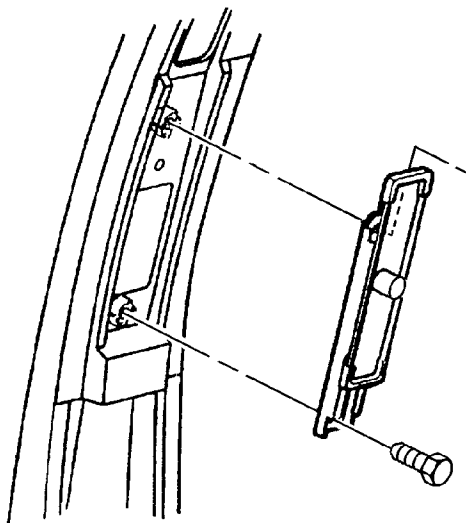
2. Remove the bolt retaining the shoulder/seat belt guide to the guide adjuster.
3. Remove the shoulder/seat belt guide from the guide adjuster.
4. Remove the front door upper pillar garnish molding. Refer to [Upper Pillar Garnish Molding Replacement](#).

© 2010 General Motors Corporation. All rights reserved.



5. Remove the shoulder/seat belt guide adjuster retaining bolts from the pillar.
6. Remove the shoulder/seat belt guide adjuster from the vehicle.

## Installation Procedure

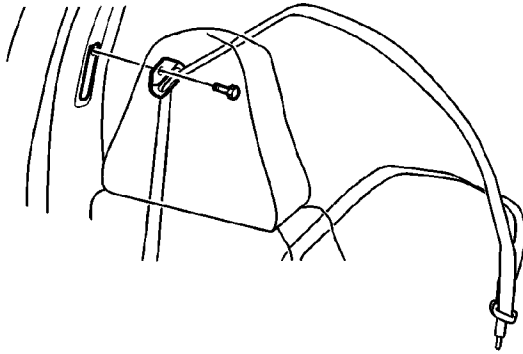


1. Install the shoulder/seat belt guide adjuster to the vehicle.

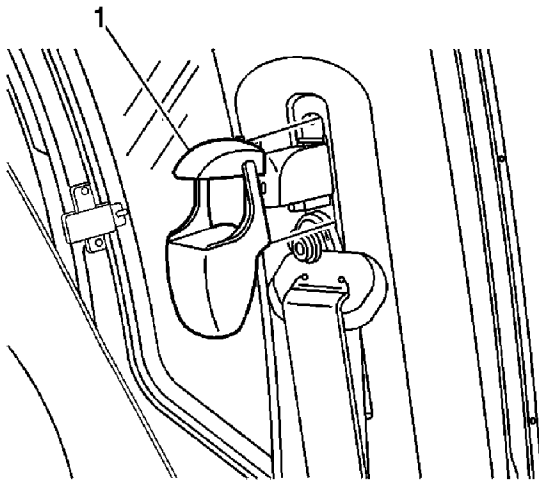
**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the shoulder/seat belt guide adjuster retaining bolts to the pillar and tighten to 26 N·m (19 lb ft).





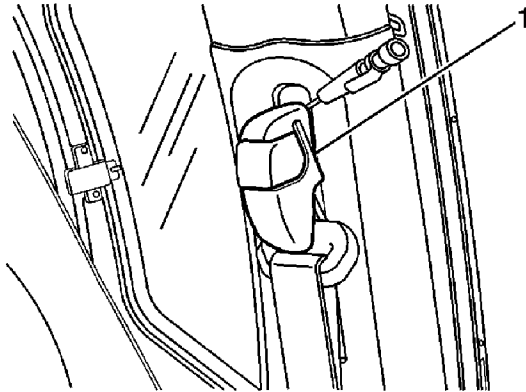
3. Install the shoulder/seat belt guide to the guide adjuster.
4. Install the shoulder/seat belt guide retaining bolt to the guide adjuster and tighten to **52 N·m (38 lb ft)**.
5. Install the front door upper pillar garnish molding. Refer to [Upper Pillar Garnish Molding Replacement](#).



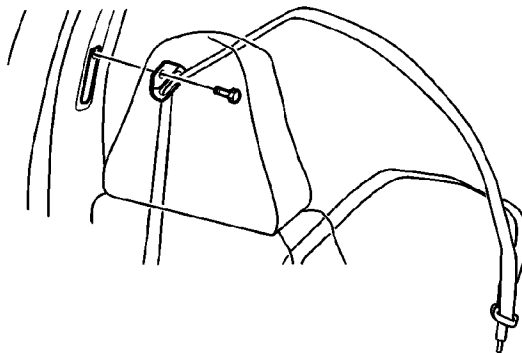
6. Install the shoulder/seat belt guide to the guide adjuster cover (1).

## Front Seat Belt Retractor Replacement

### Removal Procedure

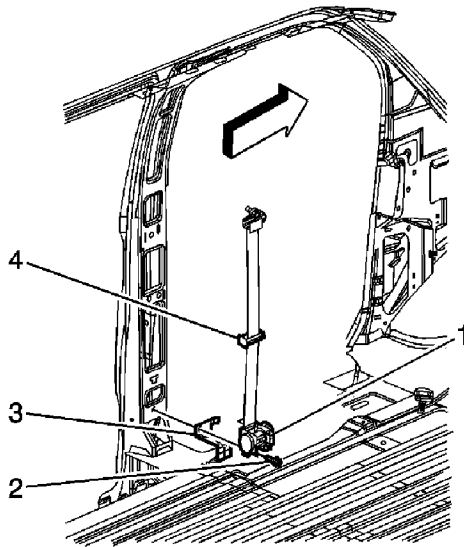


1. Using a flat bladed tool, remove the shoulder/seat belt guide adjuster cover (1).



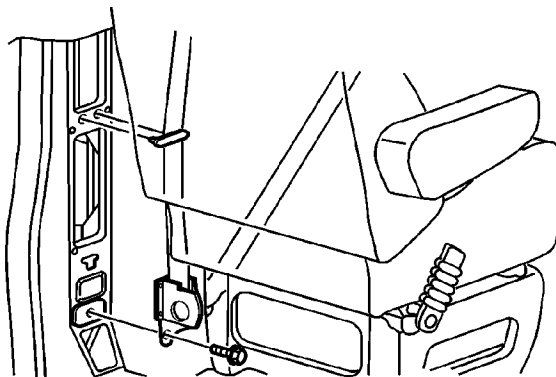
2. Remove the shoulder/seat belt guide retaining bolt from the shoulder belt guide adjuster.
3. Remove the shoulder/seat belt guide from the shoulder belt guide adjuster.
4. Remove the front door upper pillar garnish molding. Refer to [Upper Pillar Garnish Molding Replacement](#).

© 2010 General Motors Corporation. All rights reserved.



5. Remove the front door lower pillar garnish molding. Refer to [Lower Pillar Garnish Molding Replacement](#).
6. Disengage the front seat belt retractor guide (4) from the pillar.
7. Remove the shoulder/seat belt retractor bolt (2) from the lower pillar.
8. Remove the shoulder/seat belt retractor (1) assembly from the vehicle.

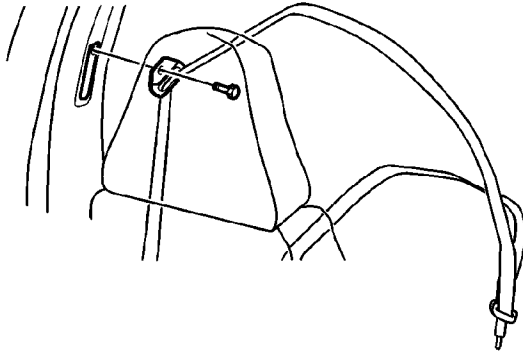
## Installation Procedure



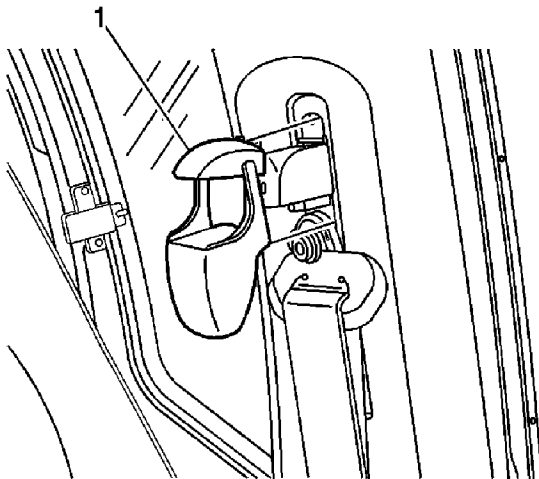
1. Install the shoulder/seat belt retractor assembly to the vehicle.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the shoulder/seat belt retractor retaining bolt to the lower pillar and tighten to **52 N·m (38 lb ft)**.
3. Install the front door lower pillar garnish molding. Refer to [Lower Pillar Garnish Molding Replacement](#).
4. Install the front door upper pillar garnish molding. Refer to [Upper Pillar Garnish Molding Replacement](#).

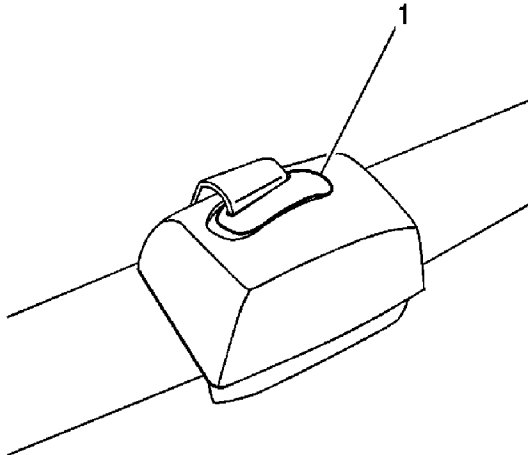


5. Install the shoulder/seat belt guide to the shoulder belt guide adjuster.
6. Install the upper shoulder/seat belt guide retaining bolt to the vehicle and tighten to **10 N·m (89 lb in)**.

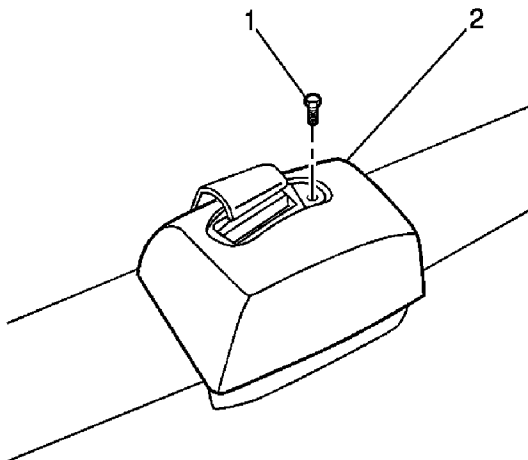


7. Install the shoulder/seat belt guide to the guide adjuster cover (1).

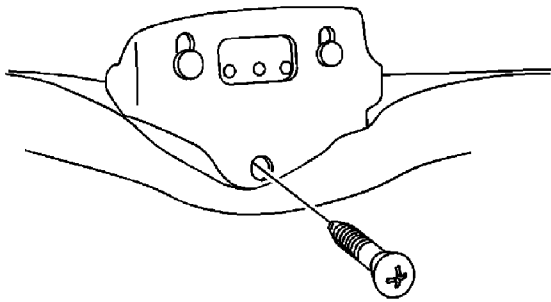
## Rear Seat Center Retractor Side Belt Replacement Removal Procedure



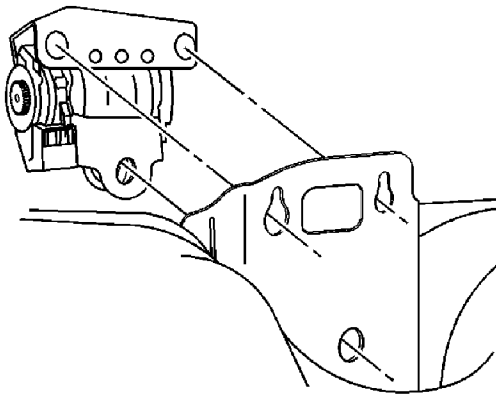
1. Remove the center seat belt retractor seat belt opening trim (1).



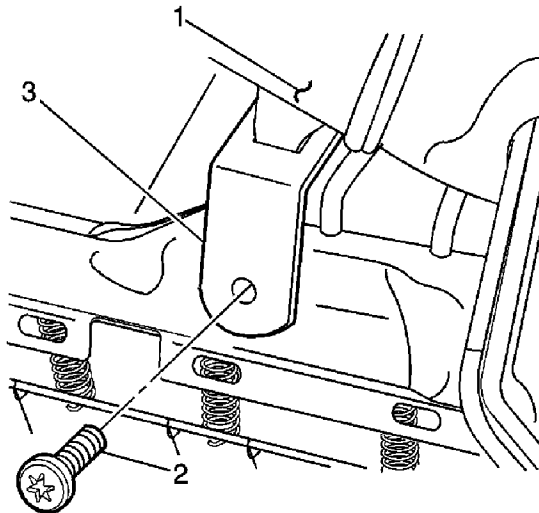
2. Remove the center seat belt retractor trim cover bolt (1).
3. Remove the center seat belt retractor trim cover (2).



4. Carefully pull the rear seat back trim down enough to expose the center seat belt retractor bolt.
5. Remove the seat belt center retractor bolt.

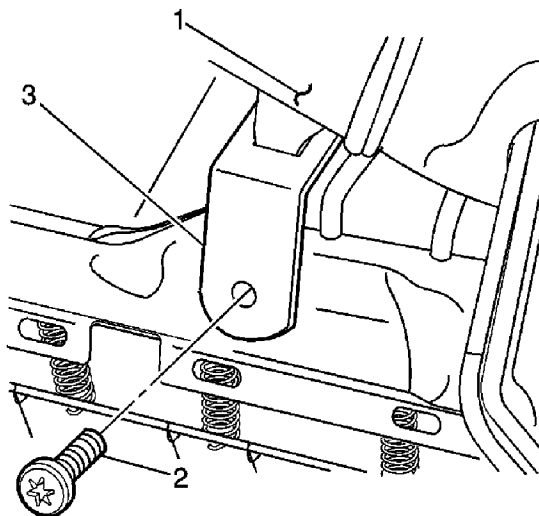


6. Slide the center seat belt retractor up and out of the key hole slots on the seat back frame.



7. Partially remove the seat cushion cover (1) in order to gain access to the center seat belt retractor lower bolt (2).
8. Remove the center seat belt retractor lower bolt (2).
9. Remove the center seat belt retractor assembly from the vehicle.

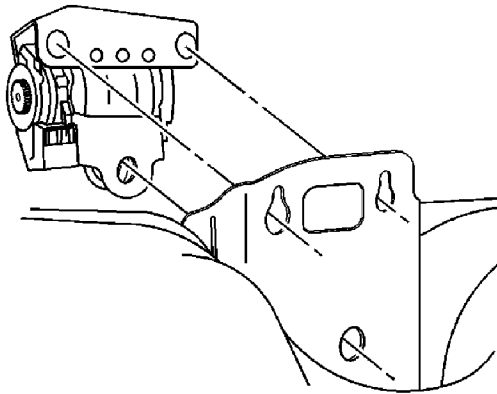
## Installation Procedure



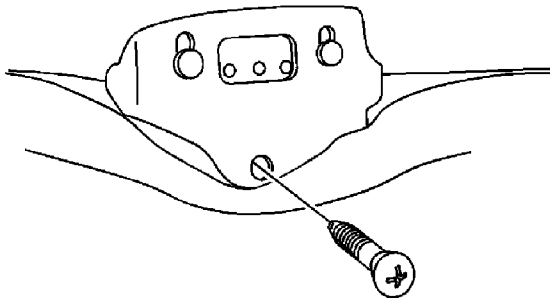
1. Install the center seat belt lower belt (3) to the seat cushion frame.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the center seat belt retractor lower bolt (2) and tighten to **52 N·m (38 lb ft)**.
3. Install the seat cushion cover (1).

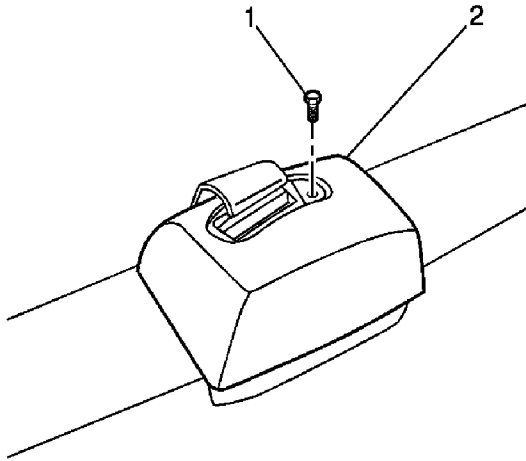


4. Slide the center seat belt retractor into key hole slots in the seat back frame.

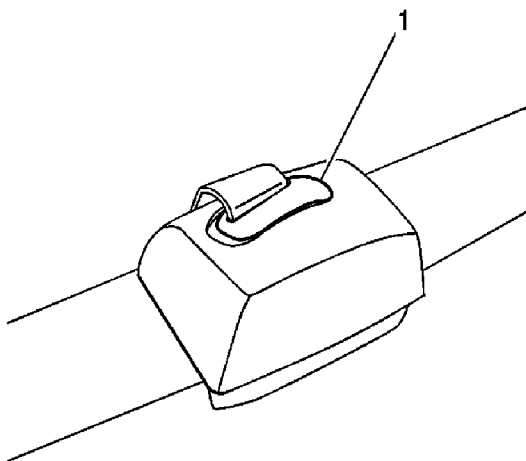


5. Carefully pull the rear seat back trim down enough to expose the center seat belt retractor bolt hole.
6. Install the center seat belt retractor bolt and tighten to **52 N·m (38 lb ft)**.





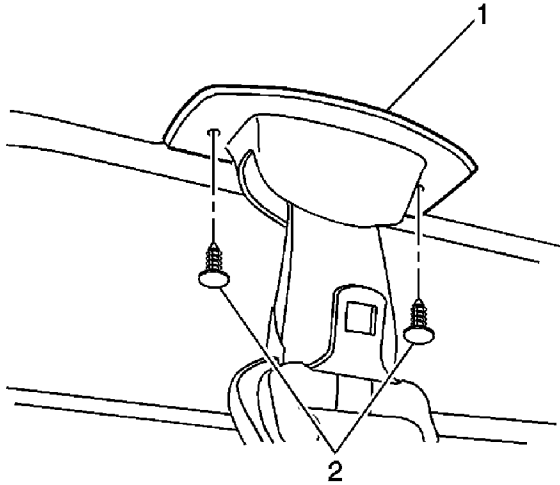
7. Install the center seat belt retractor trim cover (2).
8. Install the center seat belt retractor trim cover bolt (1) and tighten to **1.5 N·m (13 lb in)**.



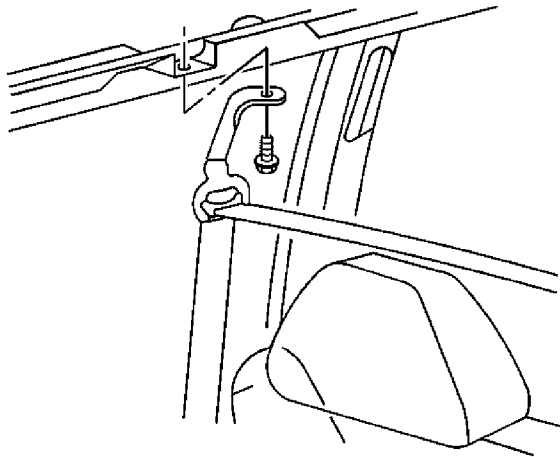
9. Install the center seat belt retractor seat belt opening trim (1).

## Seat Belt Retractor Replacement - No. 2 Left Rear

### Removal Procedure

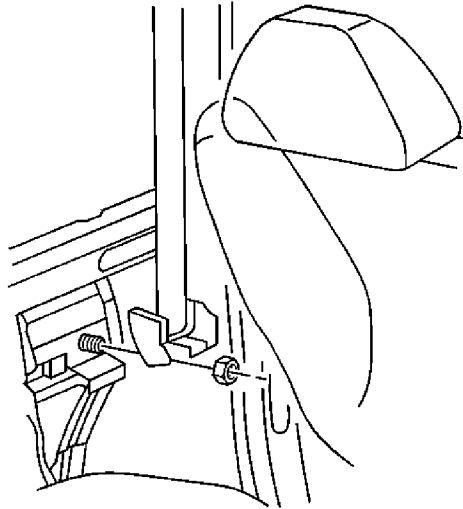


1. Remove the seat belt upper trim cover retainers (2).
2. Remove the seat belt upper trim cover (1)



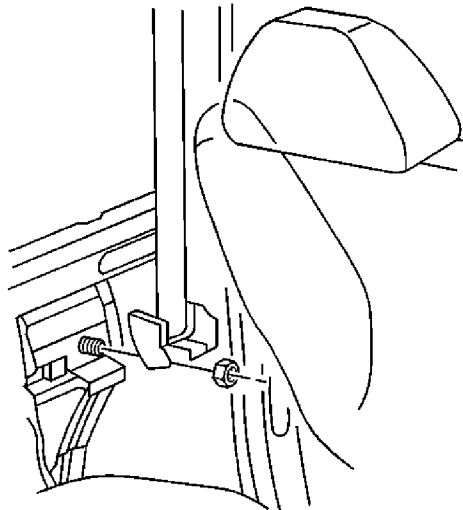
3. Remove the upper seat belt guide retaining bolt from the seat belt guide.
4. Remove the upper seat belt guide from the vehicle.
5. Remove the body side trim panel. Refer to [Body Side Trim Panel Replacement - Left Side](#).

© 2010 General Motors Corporation. All rights reserved.



6. Remove the seat belt retractor retaining bolt from the vehicle.
7. Remove the seat belt retractor from the vehicle.

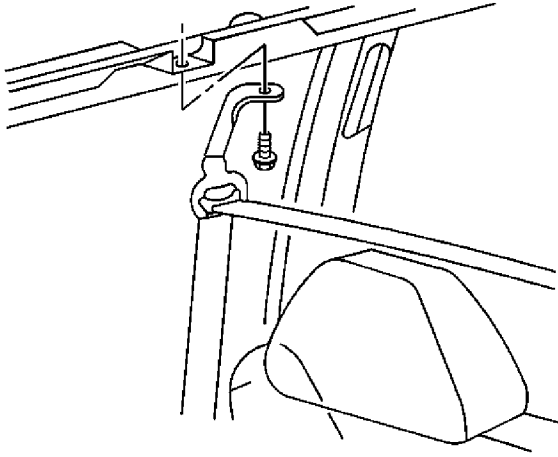
## Installation Procedure



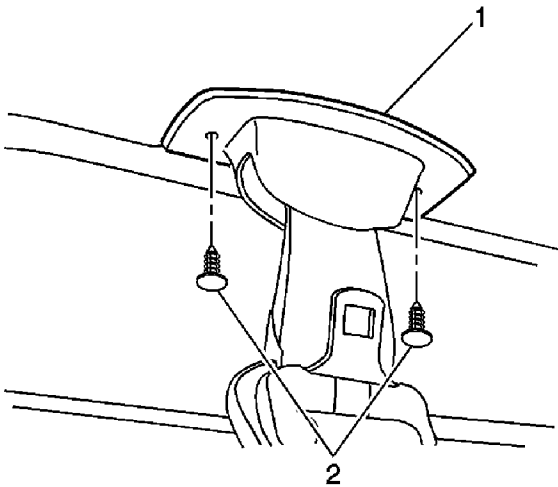
1. Install the seat belt retractor to the vehicle.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt retractor retaining bolt to the vehicle and tighten to **52 N·m (38 lb ft)**.



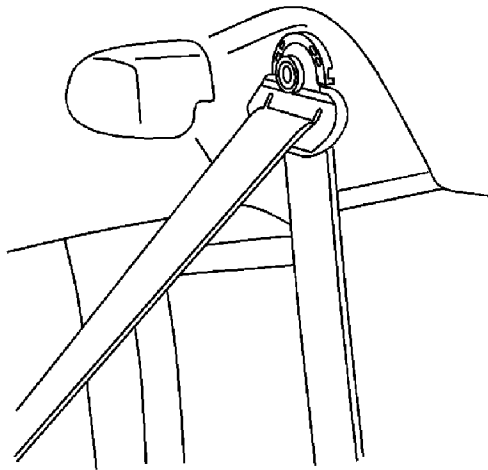
3. Install the seat belt guide to the vehicle.
4. Install the seat belt guide retaining bolt to the vehicle and tighten to **52 N·m (38 lb ft)**.
5. Install the body side trim panel. Refer to [Body Side Trim Panel Replacement - Left Side](#).



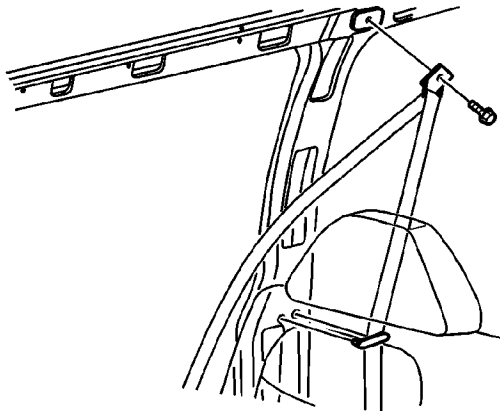
6. Install the seat belt upper trim cover retainers (2).
7. Install the seat belt upper trim cover (1)

## Seat Belt Retractor Replacement - No. 2 Right Rear

### Removal Procedure

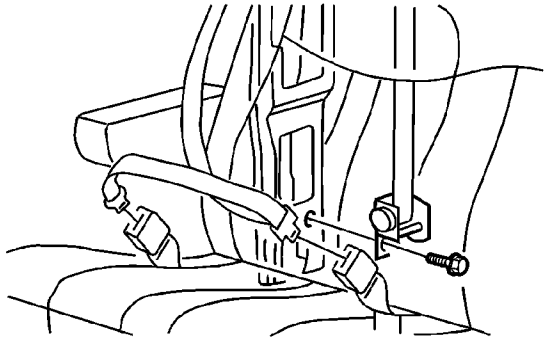


1. Remove the upper seat belt trim cover.
2. Remove the body side trim panel. Refer to [Body Side Trim Panel Replacement - Right Side](#).



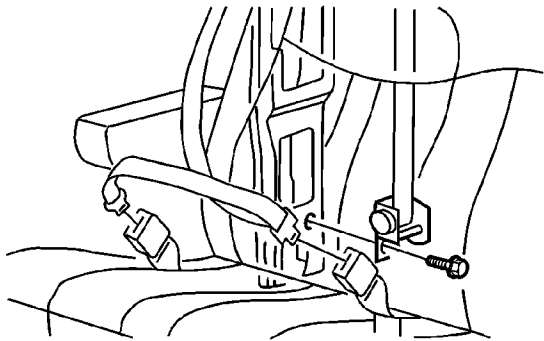
3. Remove the upper seat belt guide retaining bolt from the seat belt guide.
4. Remove the upper seat belt guide from the vehicle.

© 2010 General Motors Corporation. All rights reserved.



5. Remove the seat belt retractor retaining bolt from the vehicle.
6. Remove the seat belt retractor from the vehicle.

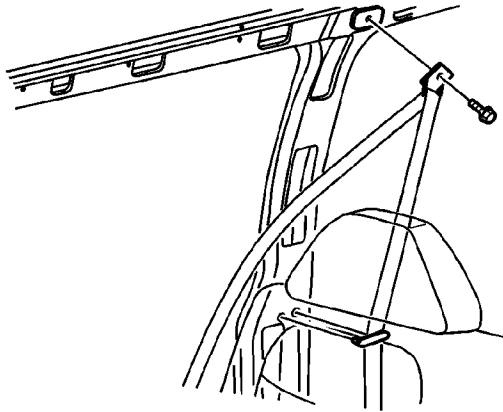
## Installation Procedure



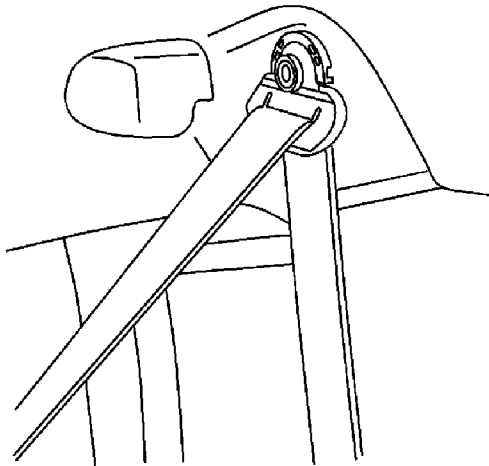
1. Install the seat belt retractor to the vehicle.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt retractor retaining bolt to the vehicle and tighten to **52 N·m (38 lb ft)**.



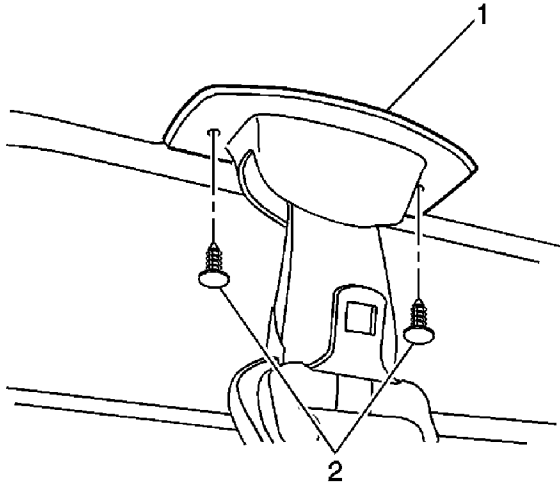
3. Install the seat belt guide to the vehicle.
4. Install the seat belt guide retaining bolt to the vehicle and tighten to **52 N·m (38 lb ft)**.
5. Install the body side trim panel. Refer to [Body Side Trim Panel Replacement - Right Side](#).



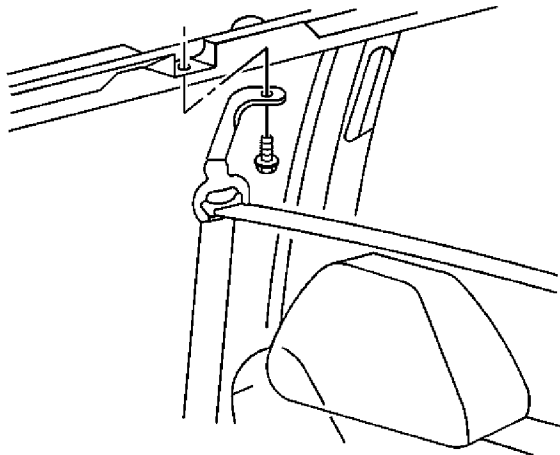
6. Install the upper seat belt trim cover.

## Seat Belt Retractor Replacement - No. 3 Left Rear

### Removal Procedure



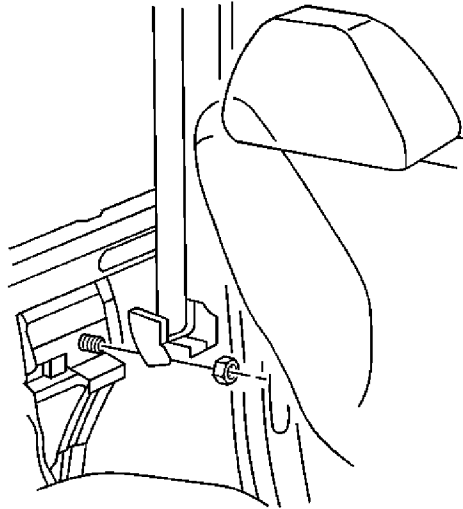
1. Remove the seat belt upper trim cover retainers (2).
2. Remove the seat belt upper trim cover (1).



3. Remove the upper seat belt guide retaining bolt from the seat belt guide.
4. Remove the upper seat belt guide from the vehicle.
5. Remove the body side trim panel. Refer to [Body Side Trim Panel Replacement - Left Side](#).

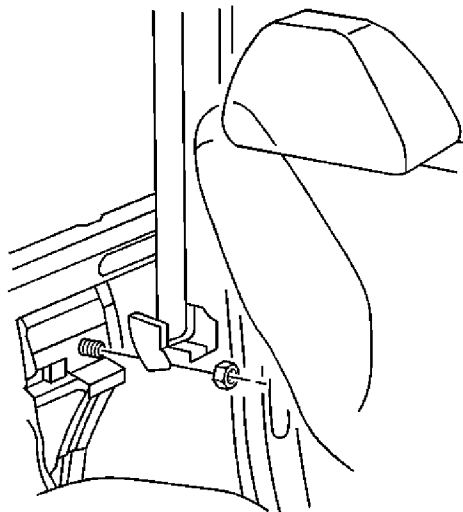
© 2010 General Motors Corporation. All rights reserved.





6. Remove the seat belt retractor retaining bolt from the vehicle.
7. Remove the seat belt retractor from the vehicle.

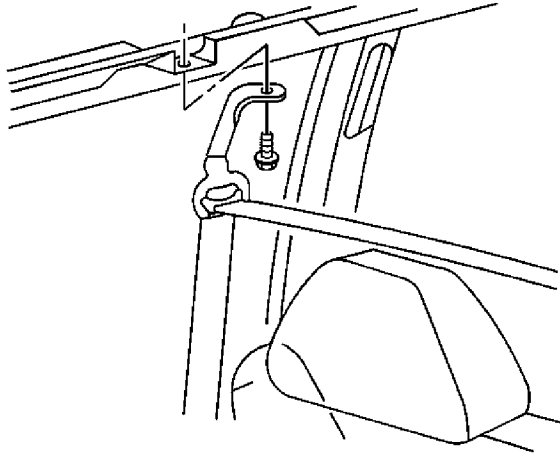
## Installation Procedure



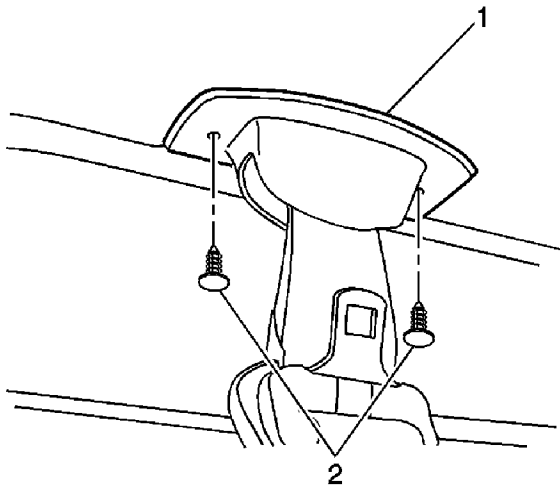
1. Install the seat belt retractor to the vehicle.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt retractor retaining bolt to the vehicle and tighten to **52 N·m (38 lb ft)**.



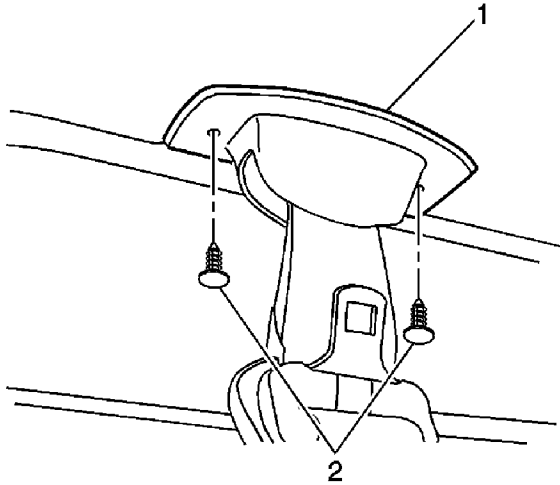
3. Install the seat belt guide to the vehicle.
4. Install the seat belt guide retaining bolt to the vehicle and tighten to **52 N·m (38 lb ft)**.
5. Install the body side trim panel. Refer to [Body Side Trim Panel Replacement - Left Side](#).



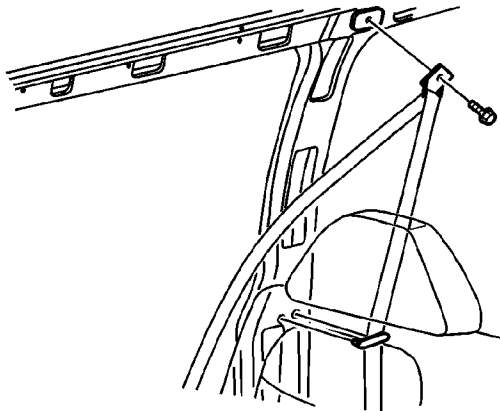
6. Install the seat belt upper trim cover retainers (2).
7. Install the seat belt upper trim cover (1).

## Seat Belt Retractor Replacement - No. 3 Right Rear

### Removal Procedure

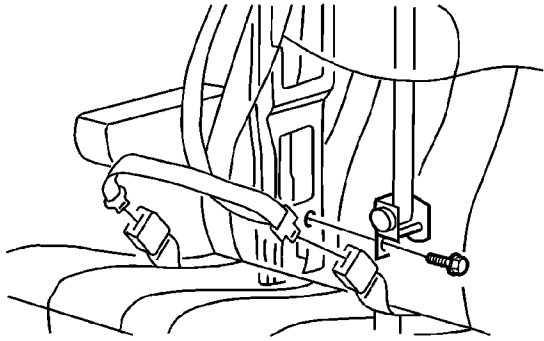


1. Remove the upper seat belt trim cover retainers (2).
2. Remove the seat belt trim cover (1)



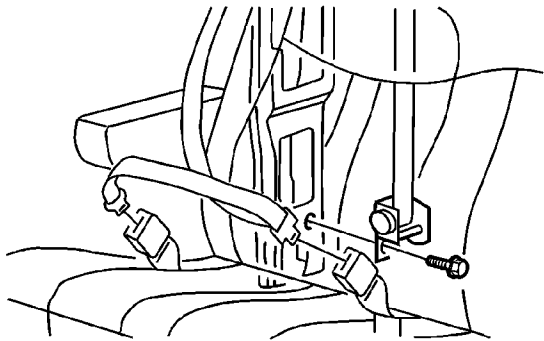
3. Remove the upper seat belt guide retaining bolt from the seat belt guide.
4. Remove the upper seat belt guide from the vehicle.
5. Remove the body side trim panel. Refer to [Body Side Trim Panel Replacement - Right Side](#).

© 2010 General Motors Corporation. All rights reserved.



6. Remove the seat belt retractor retaining bolt from the vehicle.
7. Remove the seat belt retractor from the vehicle.

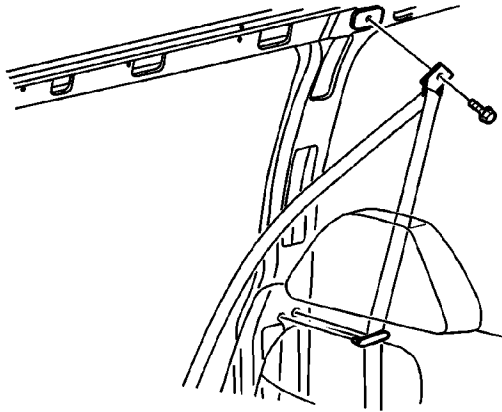
## Installation Procedure



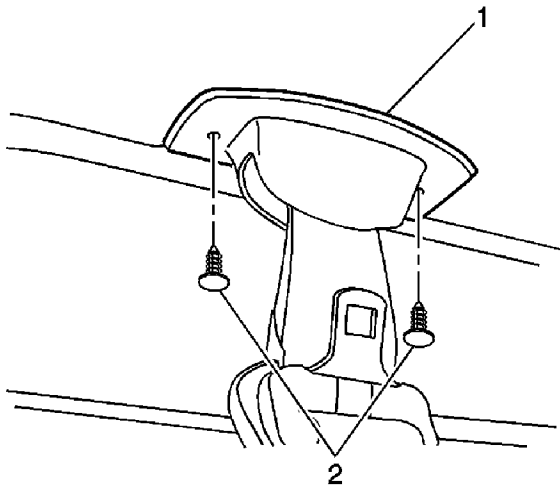
1. Install the seat belt retractor to the vehicle.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt retractor retaining bolt to the vehicle and tighten to **52 N·m (38 lb ft)**.



3. Install the seat belt guide to the vehicle.
4. Install the seat belt guide retaining bolt to the vehicle and tighten to **52 N·m (38 lb ft)**.
5. Install the body side trim panel. Refer to [Body Side Trim Panel Replacement - Right Side](#).

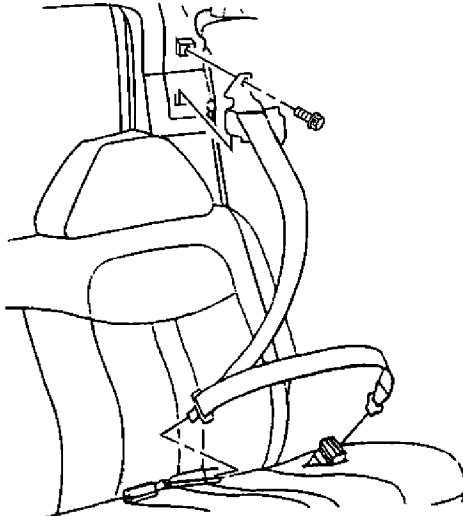


6. Install the upper seat belt trim cover (1).
7. Install the upper seat belt trim cover retainers (2).

## Seat Belt Retractor Replacement - No. 4 Left Rear

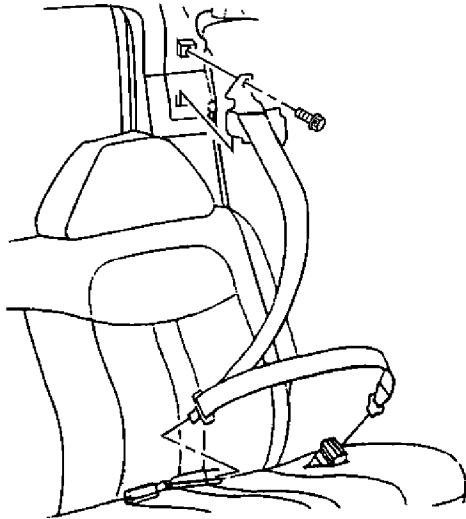
### Removal Procedure

1. Remove the seat belt escutcheon from the rear corner garnish molding.
2. Remove the rear corner garnish molding. Refer to [Body Rear Corner Garnish Molding Replacement](#).



3. Remove the seat belt retractor retaining bolts from the seat belt retractor.
4. Remove the seat belt retractor from the vehicle.

### Installation Procedure



1. Install the seat belt retractor to the vehicle.

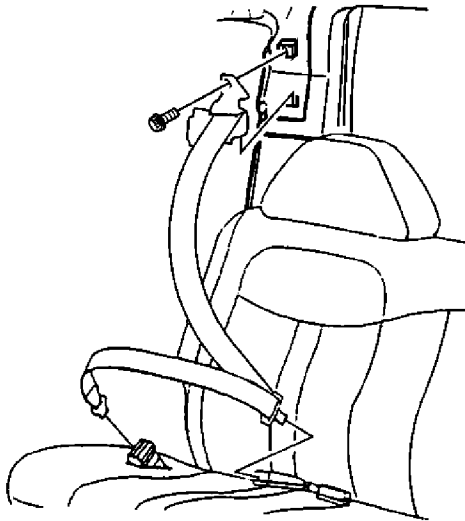
**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt retractor retaining bolts to the vehicle.
  - Tighten the seat belt retractor upper retaining bolt to **52 N·m (38 lb ft)**.
  - Tighten the seat belt retractor lower retaining bolt to **10 N·m (89 lb in)**.
3. Install the rear corner garnish molding. Refer to [Body Rear Corner Garnish Molding Replacement](#).
4. Secure the seat belt escutcheon to the rear corner garnish molding.

## Seat Belt Retractor Replacement - No. 4 Right Rear

### Removal Procedure

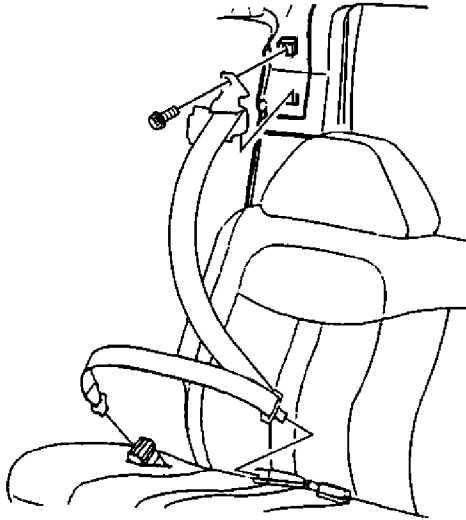
1. Remove the seat belt escutcheon from the rear corner garnish molding.
2. Remove the rear corner garnish molding. Refer to [Body Rear Corner Garnish Molding Replacement](#).



3. Remove the seat belt retractor retaining bolts from the seat belt retractor.
4. Remove the seat belt retractor from the vehicle.

### Installation Procedure





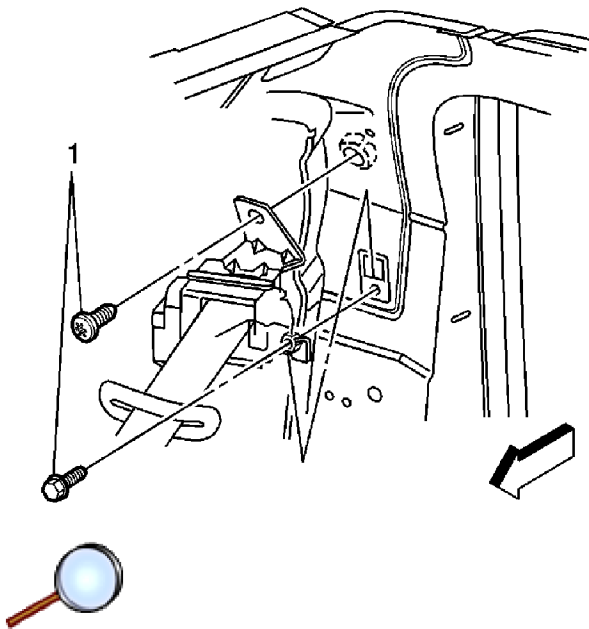
1. Install the seat belt retractor to the vehicle.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt retractor retaining bolts to the vehicle.
  - Tighten the seat belt retractor upper retaining bolt to **52 N·m (38 lb ft)**.
  - Tighten the seat belt retractor lower retaining bolt to **10 N·m (89 lb in)**.
3. Install the rear corner garnish molding. Refer to [Body Rear Corner Garnish Molding Replacement](#).
4. Secure the seat belt escutcheon to the rear corner garnish molding.

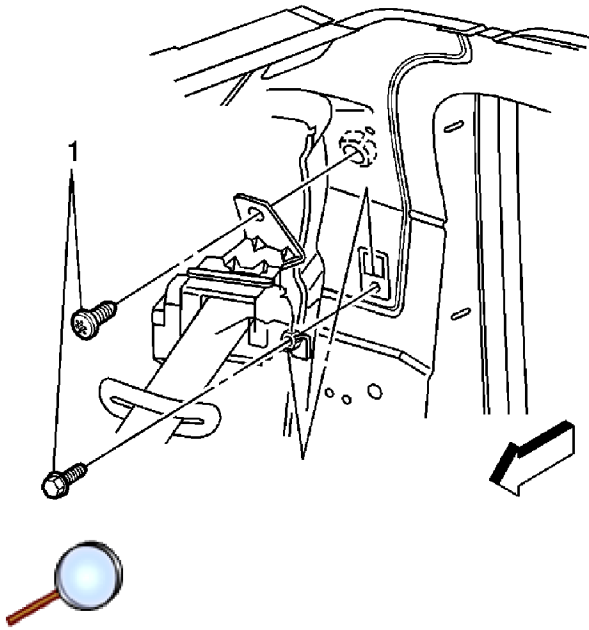
## Seat Belt Retractor Replacement - No. 5 Left Rear

### Removal Procedure



1. Remove the rear corner garnish molding. Refer to [Body Rear Corner Garnish Molding Replacement](#).
2. Remove the seat belt retractor bolts (1) from the seat belt retractor.
3. Remove the seat belt retractor from the vehicle.

### Installation Procedure

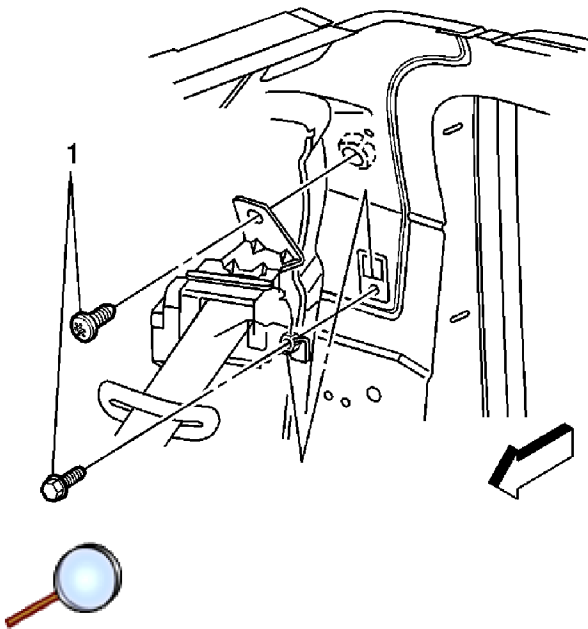


1. Install the seat belt retractor to the vehicle.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

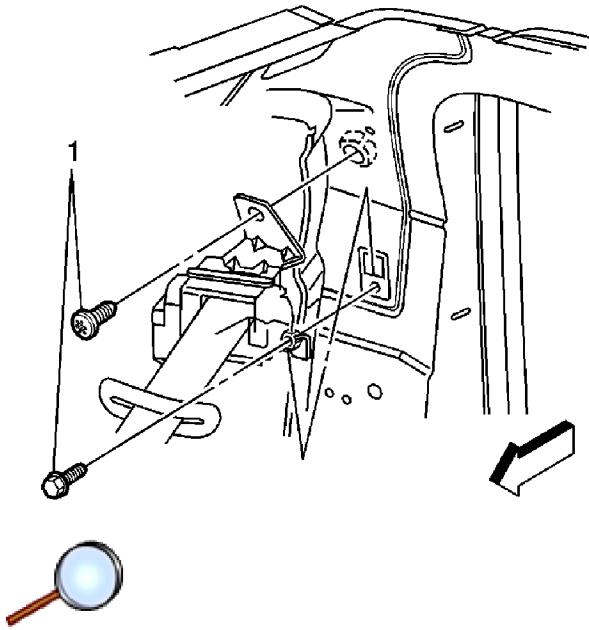
2. Install the seat belt retractor bolts (1) to the vehicle and tighten to **52 N·m (38 lb ft)**.
3. Install the rear corner garnish molding. Refer to [Body Rear Corner Garnish Molding Replacement](#).

## Seat Belt Retractor Replacement - No. 5 Right Rear Removal Procedure



1. Remove the rear corner garnish molding. Refer to [Body Rear Corner Garnish Molding Replacement](#).
2. Remove the seat belt retractor bolts (1).
3. Remove the seat belt retractor from the vehicle.

## Installation Procedure



1. Install the seat belt retractor to the vehicle.

**Caution:** Refer to [Fastener Caution](#) in the Preface section.

2. Install the seat belt retractor bolts (1) and tighten to **52 N·m (38 lb ft)**.
3. Install the rear corner garnish molding. Refer to [Body Rear Corner Garnish Molding Replacement](#).