

2006 Chevrolet Equinox LT

2006 RESTRAINTS Seat Belts - Equinox & Torrent

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SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
IMPORTANT: Apply Permatex® 24200 or equivalent on all seat belt fasteners prior to installation.		
Center Rear Seat Belt Retractor Cover-to-Seat Bolt	20 N.m	15 lb ft
Center Rear Seat Belt Retractor-to-Seat Bolt	45 N.m	33 lb ft
Center Rear Seat Buckle-to-Seat Bolt	50 N.m	37 lb ft
Child Seat Tether Anchor Bolt-to-Seat	25 N.m	18 lb ft
Front Seat Belt Buckle Quick Connect-to-Seat Bolt	50 N.m	37 lb ft
Front Seat Belt Buckle-to-Seat Bolt	45 N.m	33 lb ft
Front Seat Belt Height Adjuster-to-Pillar	40 N.m	30 lb ft
Front Seat Belt Retractor-to-Center Pillar Bolt	45 N.m	33 lb ft
Front Seat Side Trim Screws	2.5 N.m	22 lb in
Rear Seat Belt Center Bezel Screws	2.5 N.m	22 lb in
Rear Seat Belt Retractor-to-Center Pillar Bolt	45 N.m	33 lb ft
Rear Seat Belt-to-Floor Bolt	45 N.m	33 lb ft
Rear Seat Belt Upper Guide-to-Pillar Bolt	45 N.m	33 lb ft

SCHEMATIC AND ROUTING DIAGRAMS

SEAT BELT SCHEMATIC ICONS

Seat Belt Schematic Icons

Icon	Icon Definition
	CAUTION: When performing service on or near the SIR components or the SIR wiring, the SIR system must be disabled. Refer to SIR Disabling and Enabling Zones. Failure to observe the correct procedure could cause deployment of the SIR components, personal injury, or unnecessary SIR system repairs.

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SEAT BELT SCHEMATICS

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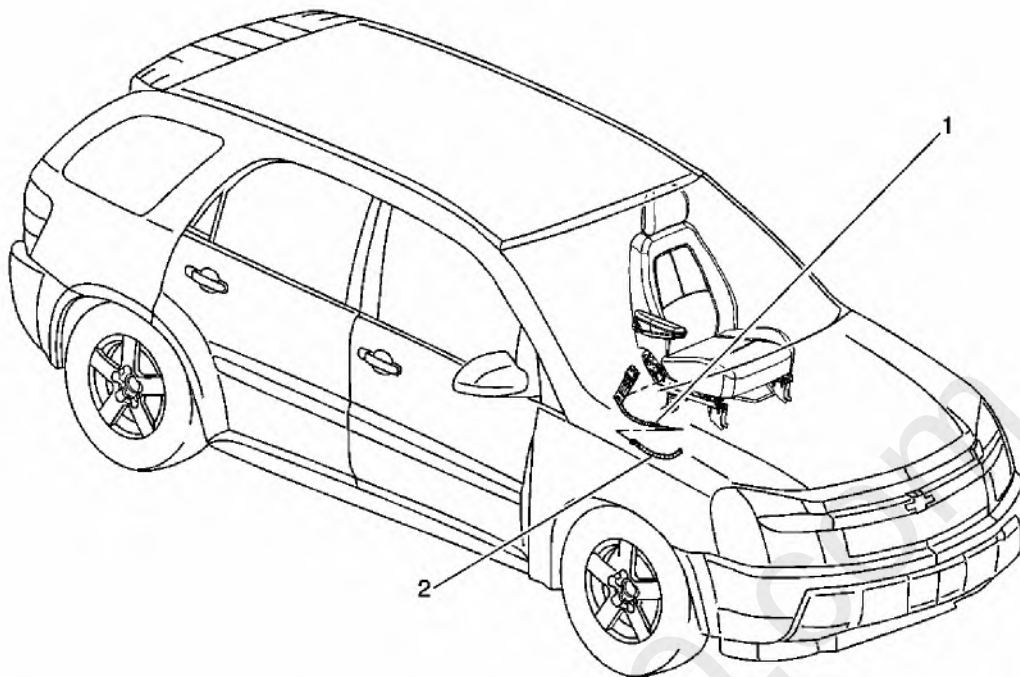


Fig. 2: Seat Belt Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 2

Callout	Component Name
1	Seat Belt Switch - Left (2 BK)
2	I/P Wiring Harness

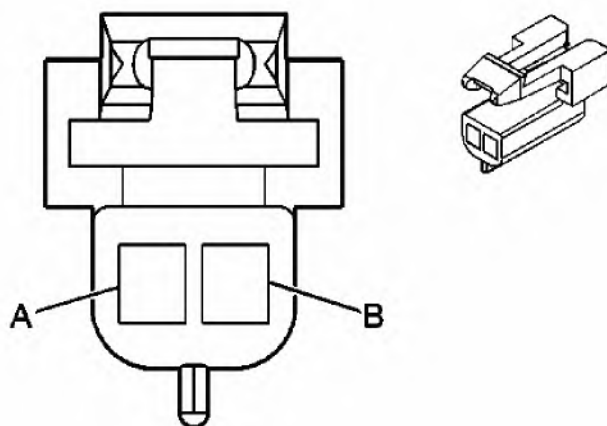
SEAT BELT CONNECTOR END VIEWS

Seat Belt Switch - Left



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Connector Part Information

- OEM: 12052832
- Service: 12101825
- 2-Way F Metri-Pack 150 Series (BK)

Pin	Wire Color	Circuit No.	Function
A	TN/WH	5016	Left Seat Belt Switch Signal
B	D-BU	650	Ground

DIAGNOSTIC INFORMATION AND PROCEDURES

DIAGNOSTIC STARTING POINT - SEAT BELTS

Begin the system diagnosis by reviewing the **Seat Belt System Description and Operation**. Reviewing the description and operation information will help you determine the correct symptom diagnostic procedure when a malfunction exists. Reviewing the description and operation information will also help you determine if the condition described by the customer is normal operation.

Refer to **Symptoms - Seat Belts** in order to identify the correct procedure for diagnosing the system and where the procedure is located.

OPERATIONAL AND FUNCTIONAL CHECKS

Front and Rear Seat Belt Retractors

Front and rear seat belt retractors will lock under the following conditions:

- The vehicle exceeds a 15-degree angle
- The vehicle exceeds 0.60 g of deceleration force
- The webbing is pulled out of the retractor rapidly

- During hard cornering or while descending a winding downhill grade
- While braking to stop at a downhill intersection

All retractors will unlock when 25.4 mm (1 in) of the belt is fed back into the retractor.

Static Test

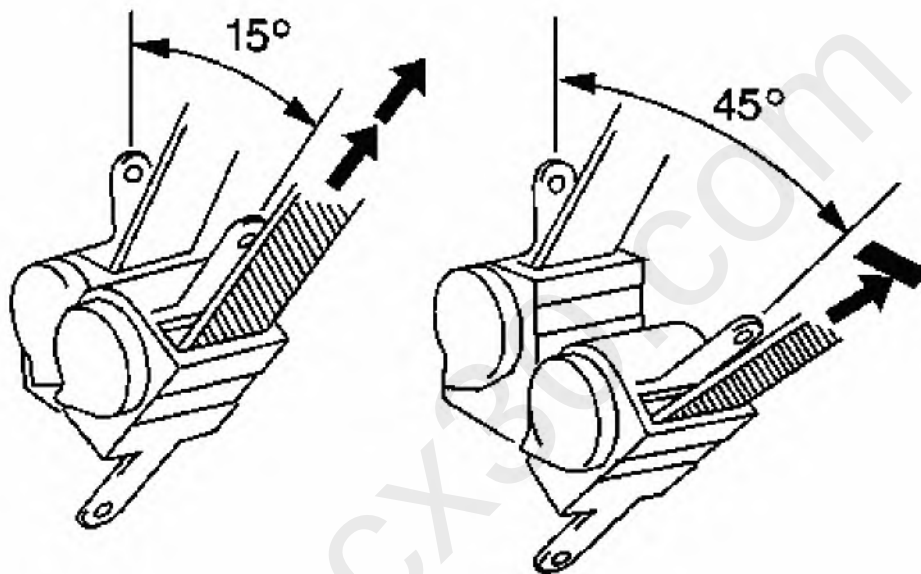


Fig. 3: Checking Seat Belt Retractor Inclination
Courtesy of GENERAL MOTORS CORP.

1. Remove the retractor assembly.
2. Tilt the retractor slowly.
3. Verify that the belt can be pulled out of the retractor at an inclination of 15 degrees or less, but not at an inclination of 45 degrees or more.

Static Test Seat Belts with Child Hold-Out Mechanism (CHOM) Feature

Front Passenger Seat, Rear Outboard Seats

1. Pull the seat belts all the way out of the retractor.
2. Feed a few inches of belt back into the retractor and listen for the audible clicking of the child hold-out mechanism (CHOM) system.

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3. Verify that the belt cannot be pulled out of the retractor.
4. Feed the seat belt all of the way into the retractor and verify that the belt returns to normal operating conditions.

Safety Belt Operational Checks

Front and Rear Restraints

The front seats and rear seats have a three-point seat belt system with a seat belt retractor. The rear seat latch plate should move up and down easily on the belt. An audible click should be heard when the front or rear latch plate is inserted into the buckle. Inspect the attachment of the latch plate to the buckle by grasping the belt and pulling firmly. The belt should disconnect easily when the button on the buckle is pushed in.

SYMPTOMS - SEAT BELTS

IMPORTANT: Review the seat belt system description and operation in order to familiarize yourself with the system and how it functions. Refer to Seat Belt System Description and Operation.

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the seat belt system. Refer to **Checking Aftermarket Accessories** in Wiring Systems.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Intermittent

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to **Testing for Intermittent Conditions and Poor Connections** in Wiring Systems.

Symptom List

Refer to the following symptom diagnostic procedure in order to diagnose the symptom:

Seat Belt Indicator Circuit Malfunction

SEAT BELT INDICATOR CIRCUIT MALFUNCTION

Seat Belt Indicator Circuit Malfunction

Step	Action	Yes	No
Schematic Reference: <u>Seat Belt Schematics</u>			
	Did you review the and perform the necessary inspections?		Go to Diagnostic

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1		Go to Step 2	System Check - Vehicle in Vehicle DTC Information
2	1. Turn ON the ignition, with the engine OFF. 2. Monitor the fasten safety belt indicator while buckling and unbuckling the driver seat belt. Does the system operate properly?	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	1. Buckle the driver seat belt. 2. With a scan tool, observe the Driver Side Belt Status parameter in the SIR scan tool data list. Does the scan tool indicate that the Driver Side Belt Status parameter displays Buckled?	Go to Step 4	Go to Step 5
4	Replace the instrument panel cluster (IPC). Refer to Control Module References in Computer/Integrating Systems for replacement, setup, and programming. Did you complete the replacement?	Go to Step 8	-
5	1. Turn OFF the ignition. 2. Disconnect the inflatable restraint sensing and diagnostic module (SDM) connector. Refer to Control Module References in Computer/Integrating Systems for replacement, setup, and programming. 3. Disconnect the seat belt switch - LF connector. 4. Test the seat belt switch - left signal circuit for an open or high resistance. Did you find and correct the condition?	Go to Step 8	Go to Step 6
6	Test the seat belt switch - left ground circuit for an open or high resistance. Did you find and correct the condition?	Go to Step 8	Go to Step 7
	Replace the seat belt switch - LF. Refer to		

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7	Seat Belt Replacement - Front (Quick Connect). Did you complete the replacement?	Go to Step 8	-
8	Operate the system in order to verify the repair. Did you find and correct the condition?	System OK	Go to Step 3

SEAT BELT SERVICE PRECAUTIONS

- Do not bleach or dye the seat belt webbing. Use only the following items in order to clean the seat belt webbing:
 - A mild soap and water solution
 - A soft brush or cloth
- Keep sharp edges and damaging objects away from the seat belts. Do not bend or damage any part of the seat belt buckle or latch plate. Replace any seat belts that are cut or otherwise damaged in any manner.
- Use only the correct seat belt anchor fasteners. Begin tightening the seat belt anchor fasteners by hand in order to ensure that the bolt is threaded straight. Tighten the correct seat belt anchor nut to the correct torque value. Refer to **Fastener Tightening Specifications**.
- Verify that the replacement part number is correct for the vehicle at that seating position. Do not substitute a seat belt from a different seating position.
- Replace any seat belts that have a visible Caution label instructing replacement.

REPAIR INSTRUCTIONS

REPAIRS AND INSPECTIONS REQUIRED AFTER A COLLISION

CAUTION: 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.

After any collision, verify that the pretensioners on the front seat belt retractor have not deployed.

1. Pull the seat belt webbing.
2. If you hear a grinding or a rattling, replace the retractor.

SEAT BELT BUCKLE REPLACEMENT - FRONT (QUICK CONNECT)

Removal Procedure

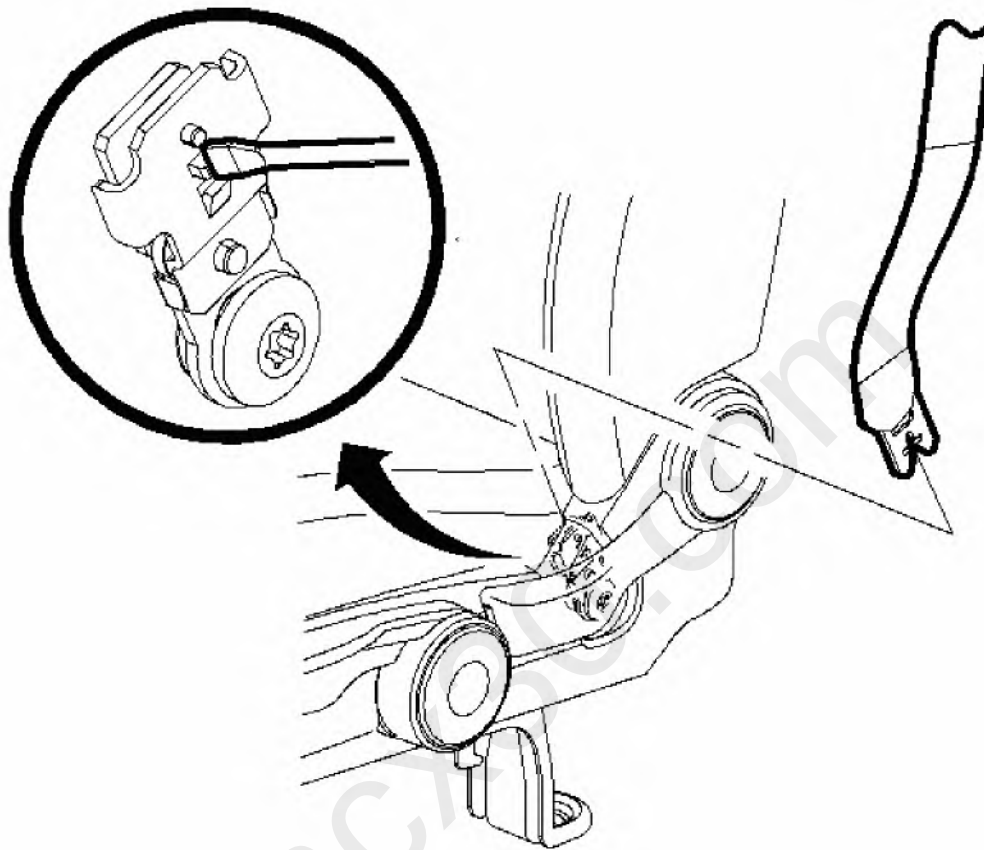


Fig. 4: Depressing The Button On Seat Buckle Quick Disconnect Using A Flat-Bladed Tool

Courtesy of GENERAL MOTORS CORP.

1. Using a small flat-bladed tool, depress the button on the seat buckle quick disconnect while pulling up on the shoulder belt to disengage the shoulder belt from the front seat.
2. Remove the front seat from the vehicle. Refer to **Seat Replacement - Front Bucket** in Seats.

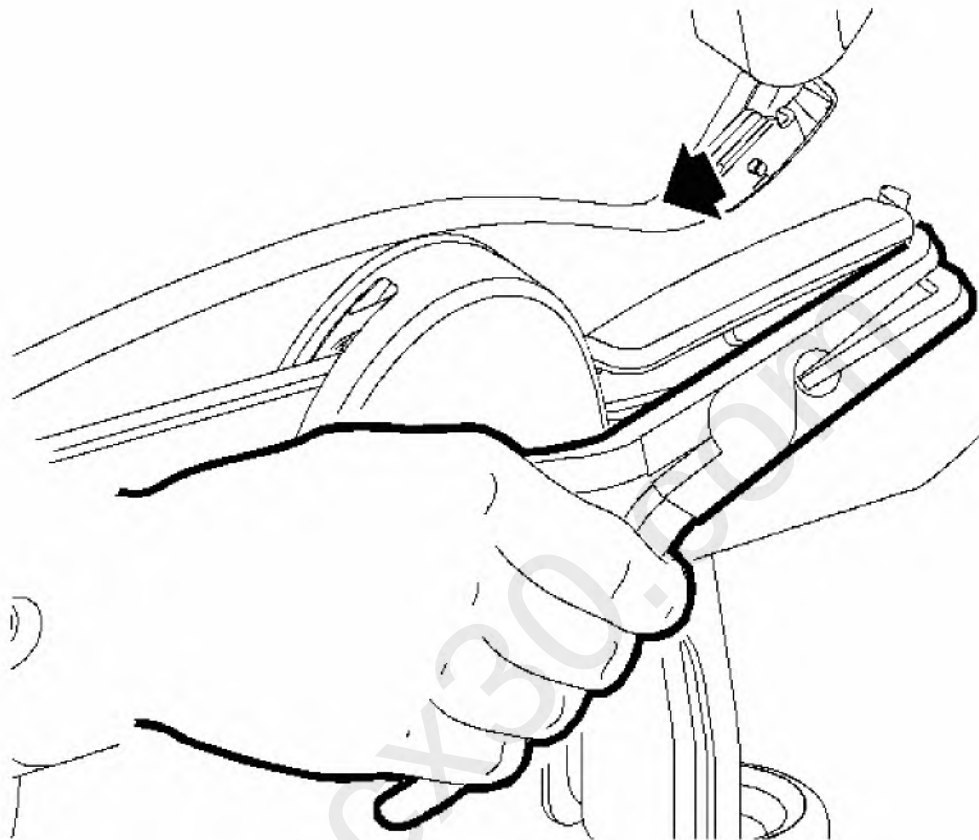


Fig. 5: Removing Seat Cushion Outer Trim Panel
Courtesy of GENERAL MOTORS CORP.

3. On the driver side, using a 90-degree pair of pliers, pull firmly on the recliner and riser handle cover to remove the handle cover.

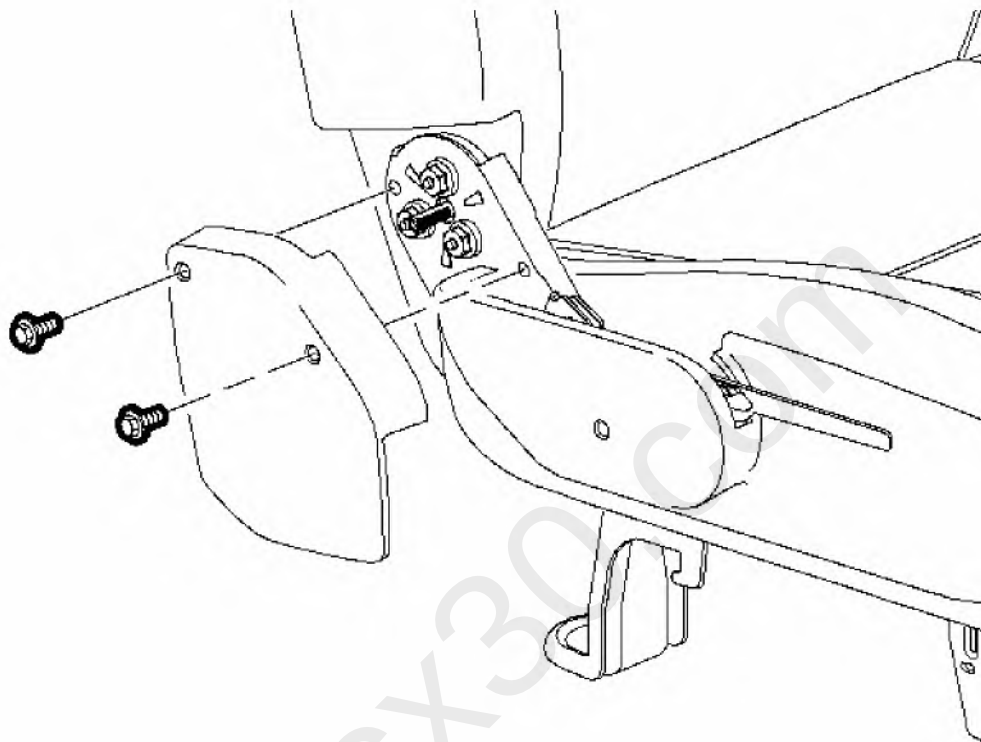


Fig. 6: View Of Front Seat Back Recliner Trim Panel
Courtesy of GENERAL MOTORS CORP.

4. On the passenger side, remove the recliner side cover fastener and remove the cover.

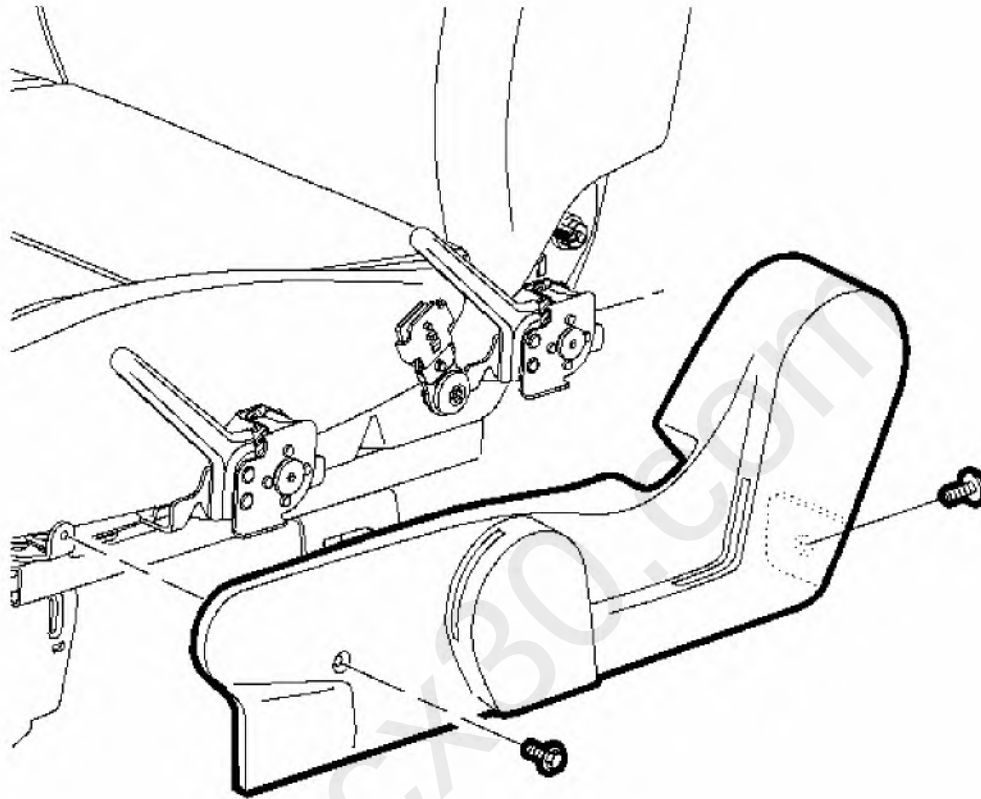


Fig. 7: View Of Seat Cushion Outer Trim Panel - Front Seat (4-Way)
Courtesy of GENERAL MOTORS CORP.

5. Remove the side trim fasteners and remove the side trim.

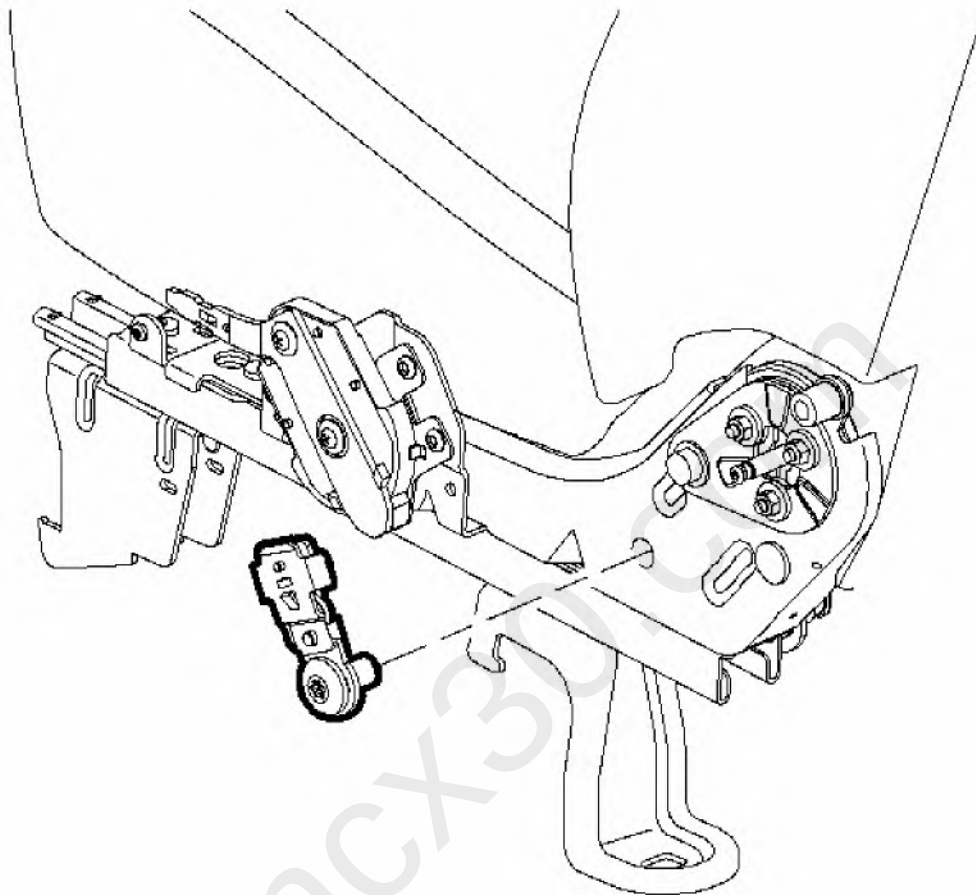


Fig. 8: Removing/Installing Shoulder Belt Quick Disconnect Bolt
Courtesy of GENERAL MOTORS CORP.

6. Remove the fastener and remove the shoulder belt quick disconnect.

Installation Procedure

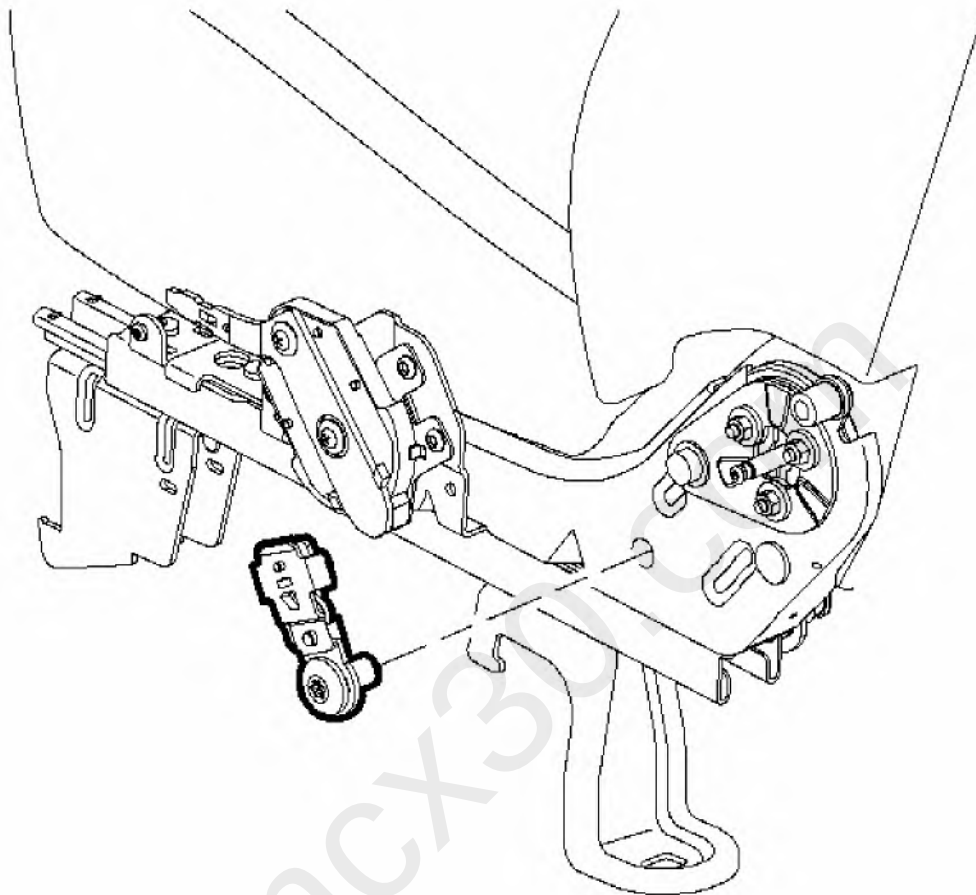


Fig. 9: Removing/Installing Shoulder Belt Quick Disconnect Bolt
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

IMPORTANT: Apply Permatex® 24200 on all restraint fasteners prior to installation.

1. Install the shoulder belt quick disconnect.

Tighten: Tighten the fasteners to 50 N.m (37 lb ft).

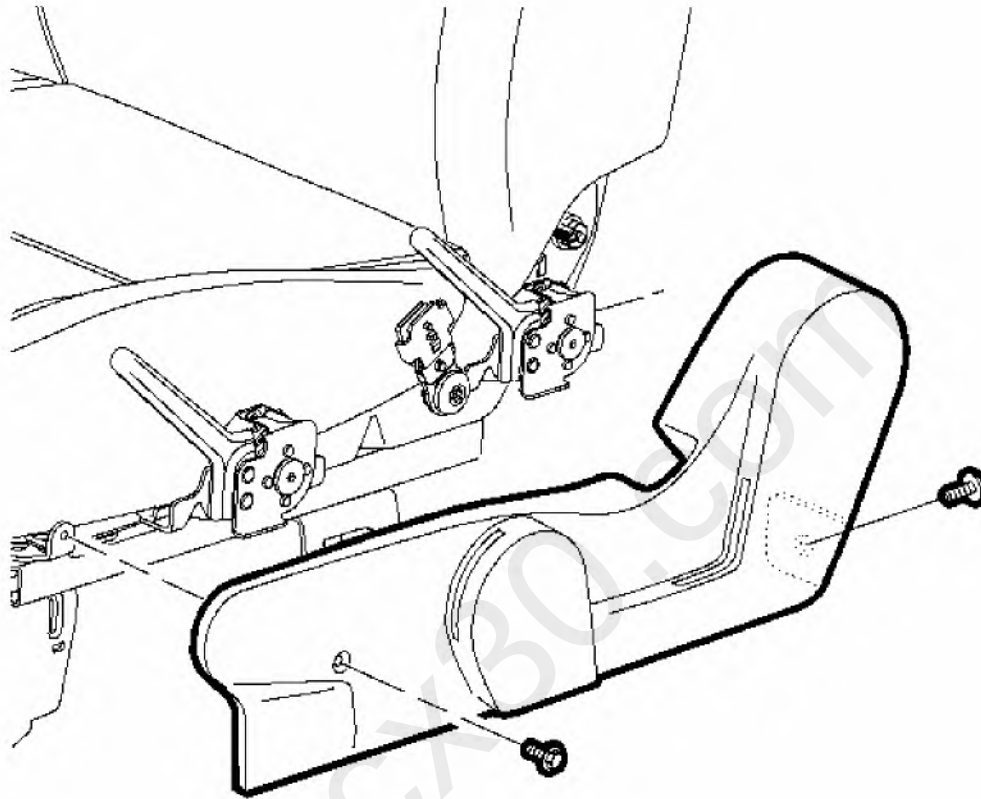


Fig. 10: View Of Seat Cushion Outer Trim Panel - Front Seat (4-Way)
Courtesy of GENERAL MOTORS CORP.

2. Install the side trim with the fasteners.

Tighten: Tighten the fasteners to 2.5 N.m (22 lb in).

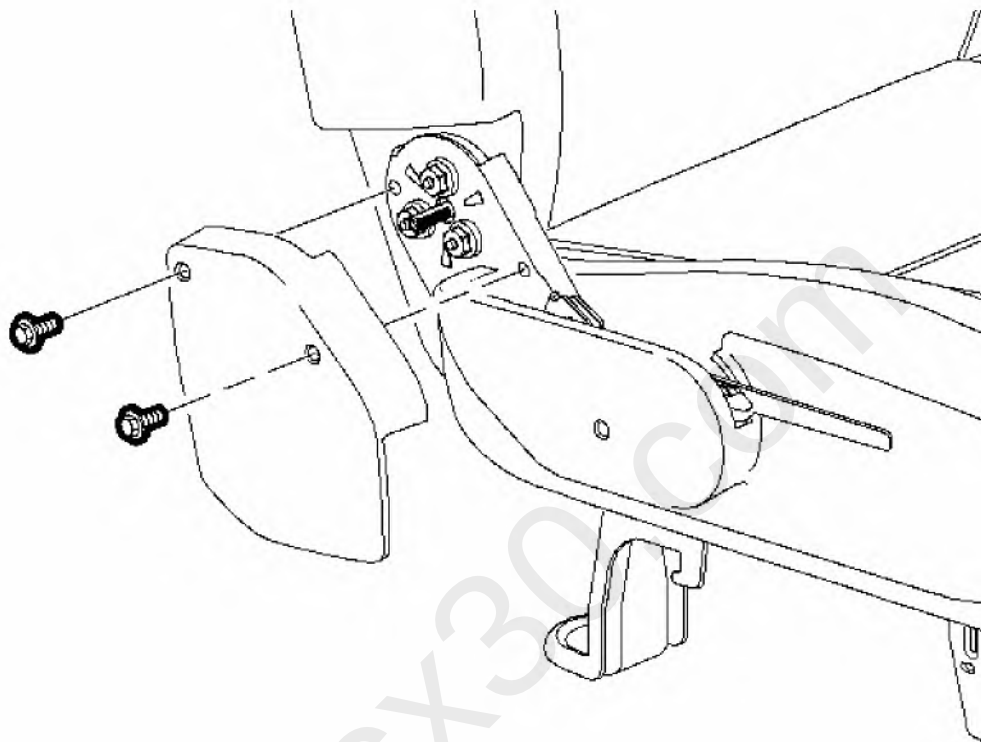


Fig. 11: View Of Front Seat Back Recliner Trim Panel
Courtesy of GENERAL MOTORS CORP.

3. On the passenger side, install the recliner side cover with the fasteners.

Tighten: Tighten the fasteners to 2.5 N.m (22 lb in).

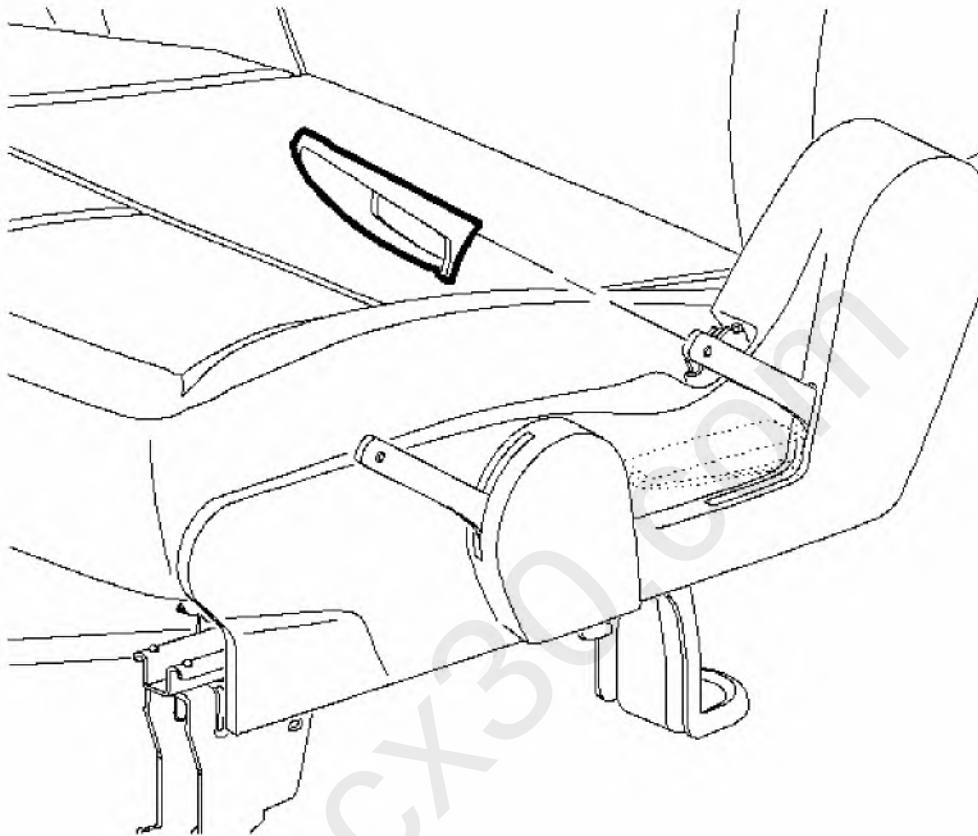


Fig. 12: Installing Recliner Handle Trim
Courtesy of GENERAL MOTORS CORP.

4. On the driver side, install the recliner and seat riser covers by firmly pushing on the handle cover.
5. Install the front seat to the vehicle. Refer to **Seat Replacement - Front Bucket** in Seats.

IMPORTANT: Verify that the shoulder belt is not twisted.

6. Install the shoulder belt into the shoulder belt quick disconnect.

SEAT BELT BUCKLE REPLACEMENT - FRONT (SIDE MOUNT)

Removal Procedure

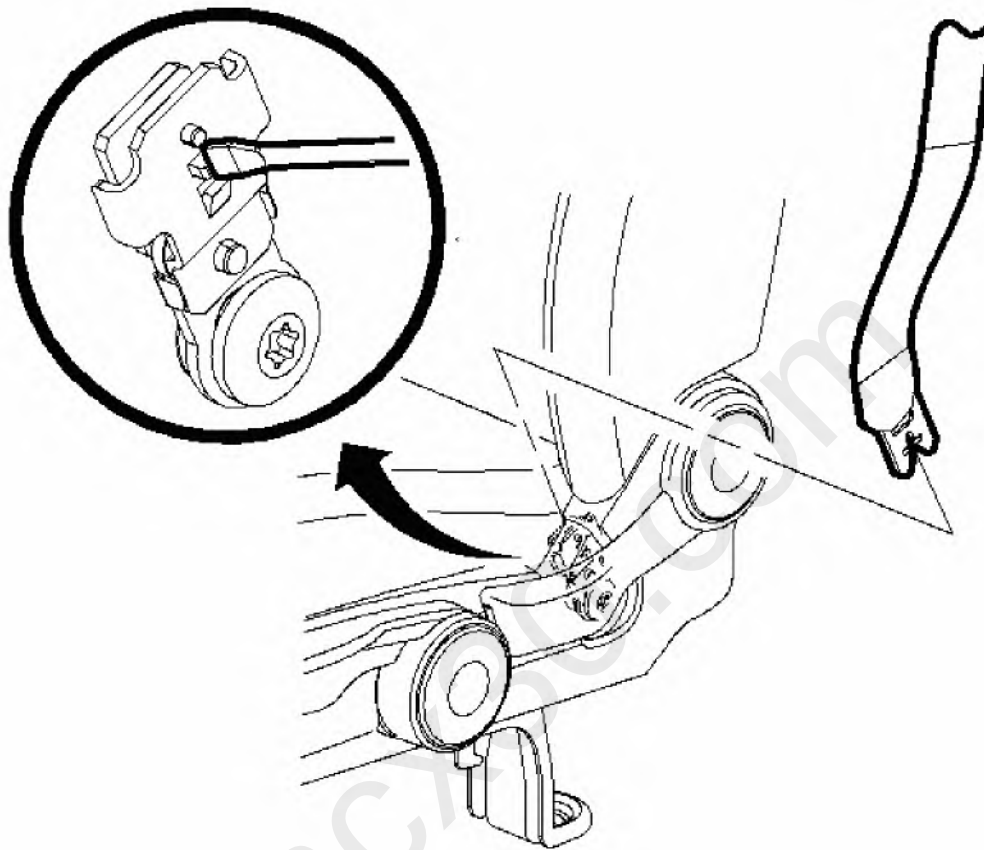


Fig. 13: Depressing The Button On Seat Buckle Quick Disconnect Using A Flat-Bladed Tool

Courtesy of GENERAL MOTORS CORP.

1. Using a small flat-bladed tool, depress the button on the seat buckle quick disconnect while pulling up on the shoulder belt to disengage the shoulder belt from the front seat.
2. Remove the front seat from the vehicle. Refer to **Seat Replacement - Front Bucket** in Seats.

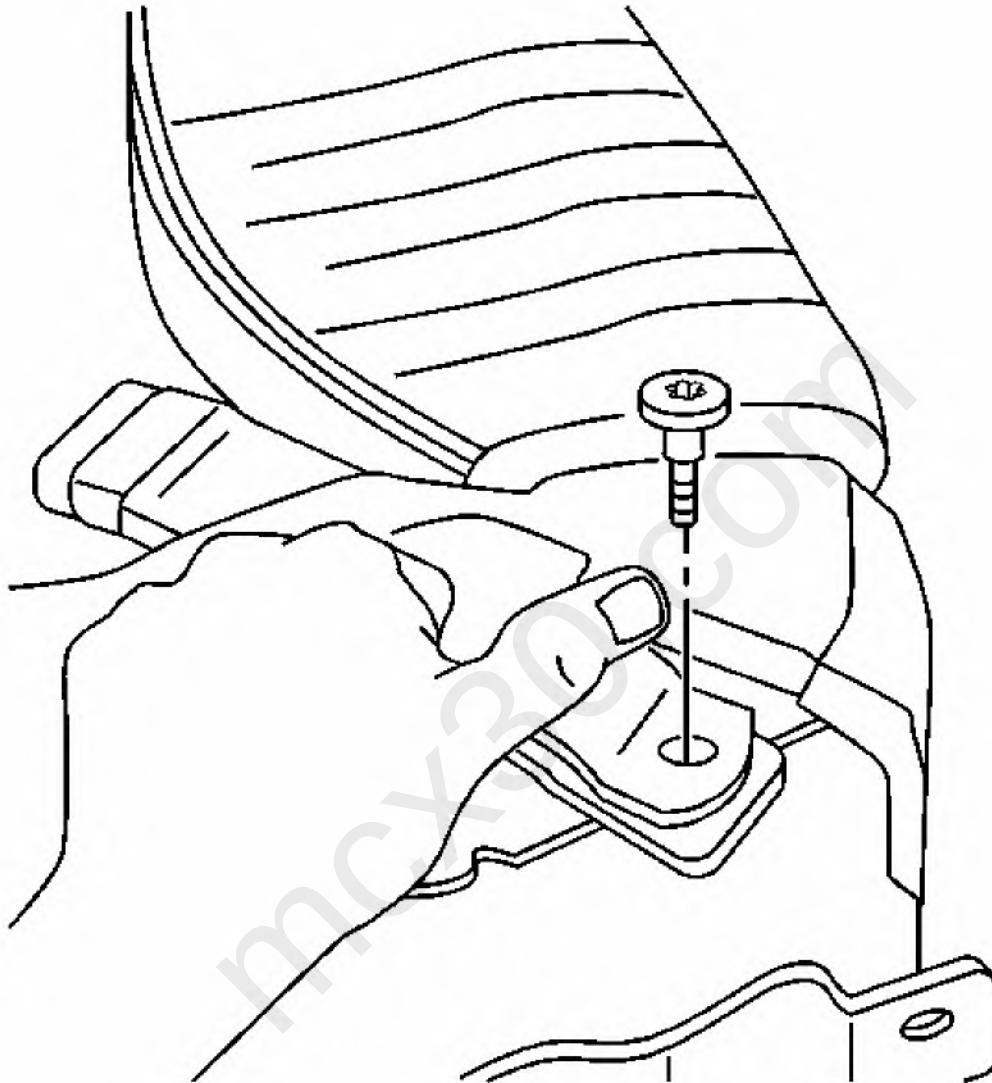


Fig. 14: View Of Bolt Retaining Passenger-Side Seat Belt Buckle
Courtesy of GENERAL MOTORS CORP.

3. Remove the seat belt buckle fastener and remove the seat belt buckle.
4. On the driver side, remove the belt buckle wiring clip from the seat adjuster. Remove the seat belt buckle.

Installation Procedure

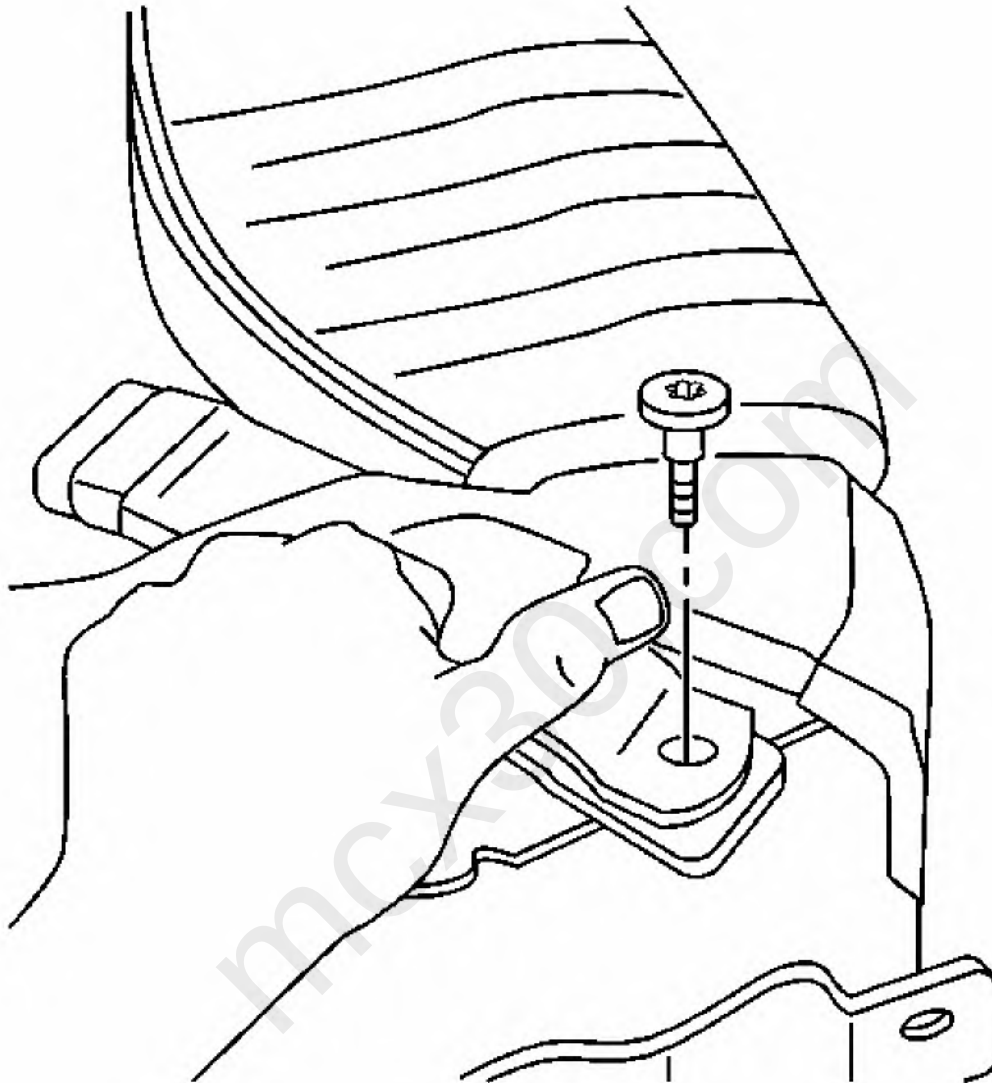


Fig. 15: View Of Bolt Retaining Passenger-Side Seat Belt Buckle
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

IMPORTANT: Apply Permatex® 24200 on all restraint fasteners prior to installation.

1. Install the seat belt buckle and the fastener to the seat adjuster.

Tighten: Tighten the fasteners to 45 N.m (33 lb ft).

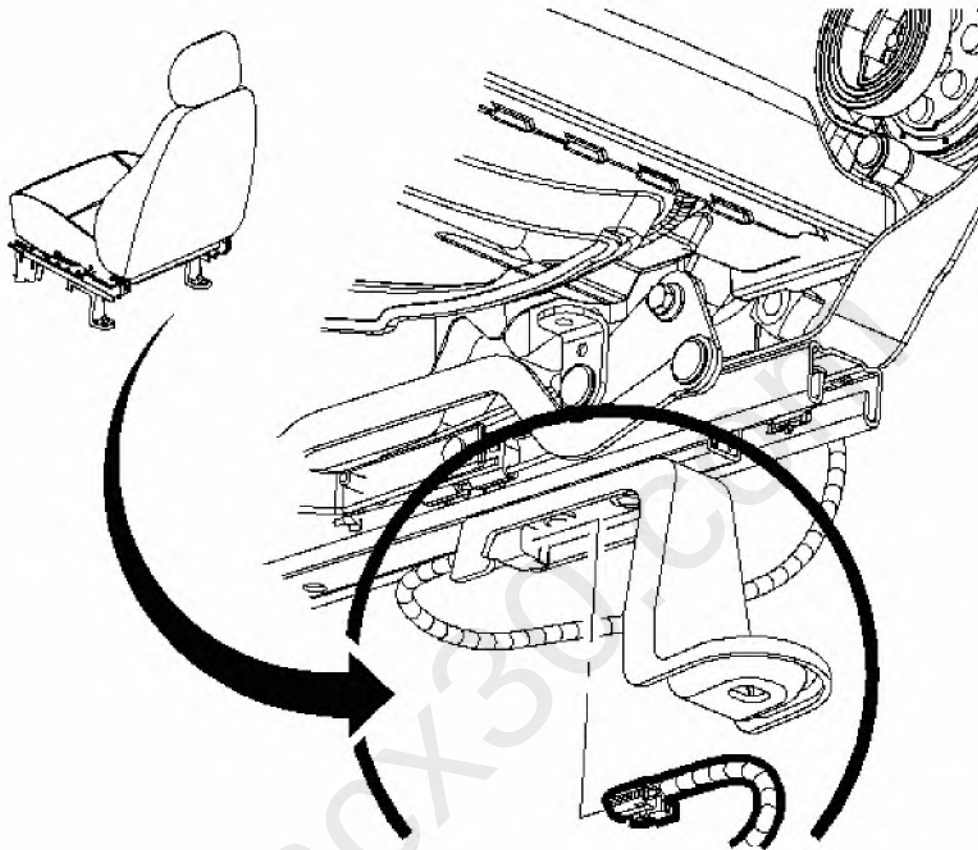


Fig. 16: Seat Belt Wiring Clip & Seat Adjuster
Courtesy of GENERAL MOTORS CORP.

2. On the driver side, attach the seat belt wiring clip to the seat adjuster.
3. Install the front seat in the vehicle. Refer to **Seat Replacement - Front Bucket** in Seats.

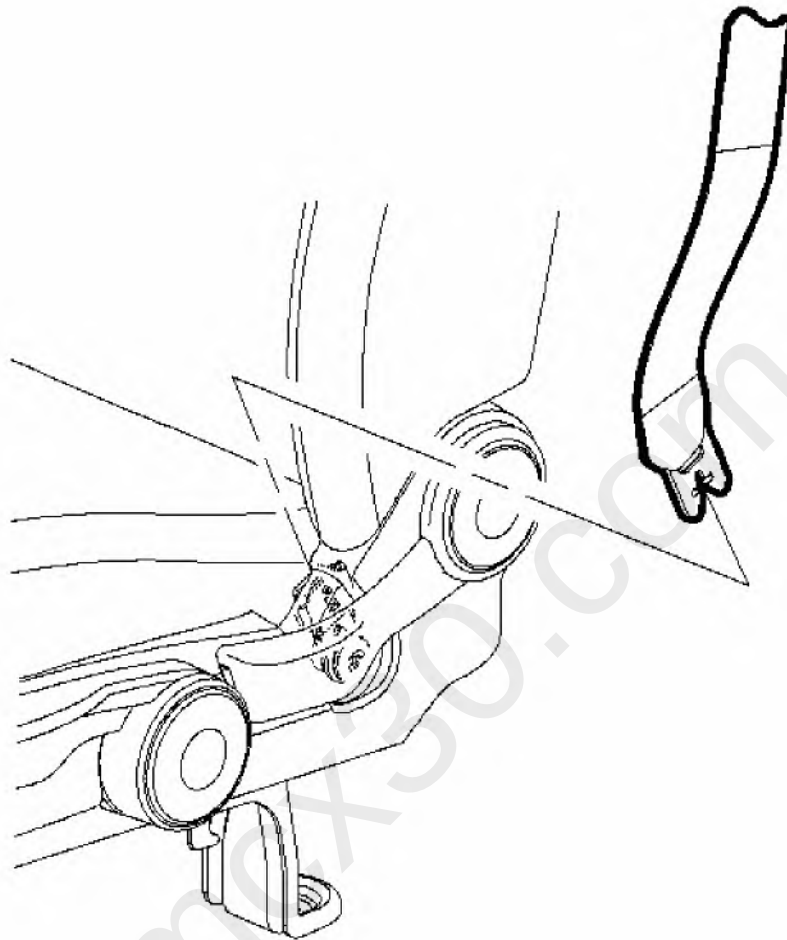


Fig. 17: Shoulder Belt Assembly & Front Seat Mini-Belt Buckle
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Verify that the shoulder belt is not twisted.

4. Snap the shoulder belt assembly into the front seat mini-belt buckle.
5. Operate the front seat shoulder belt.

SEAT BELT BUCKLE REPLACEMENT - CENTER REAR

Removal Procedure

1. Remove the rear seat assembly. Refer to Seat Replacement - Rear in Seats.

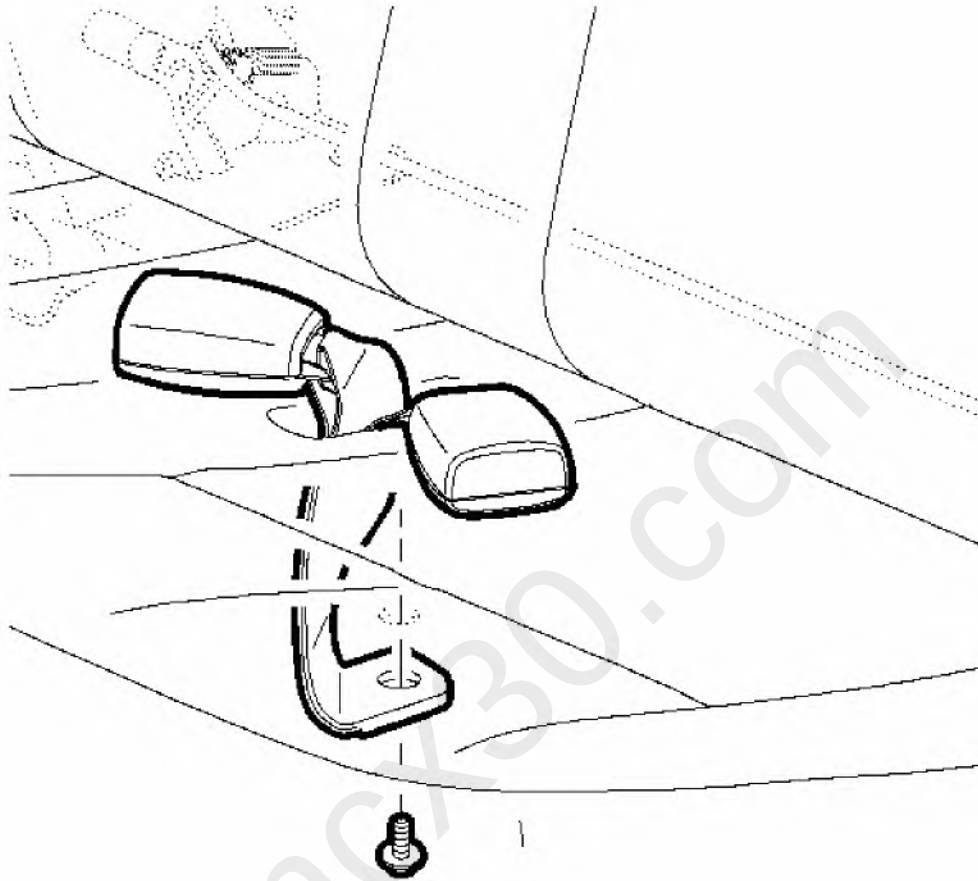


Fig. 18: Seat Cushion & Buckle
Courtesy of GENERAL MOTORS CORP.

2. Remove the fastener from the seat belt center buckle.
3. Pull the buckle through the opening in the seat cushion and remove the buckle.

Installation Procedure

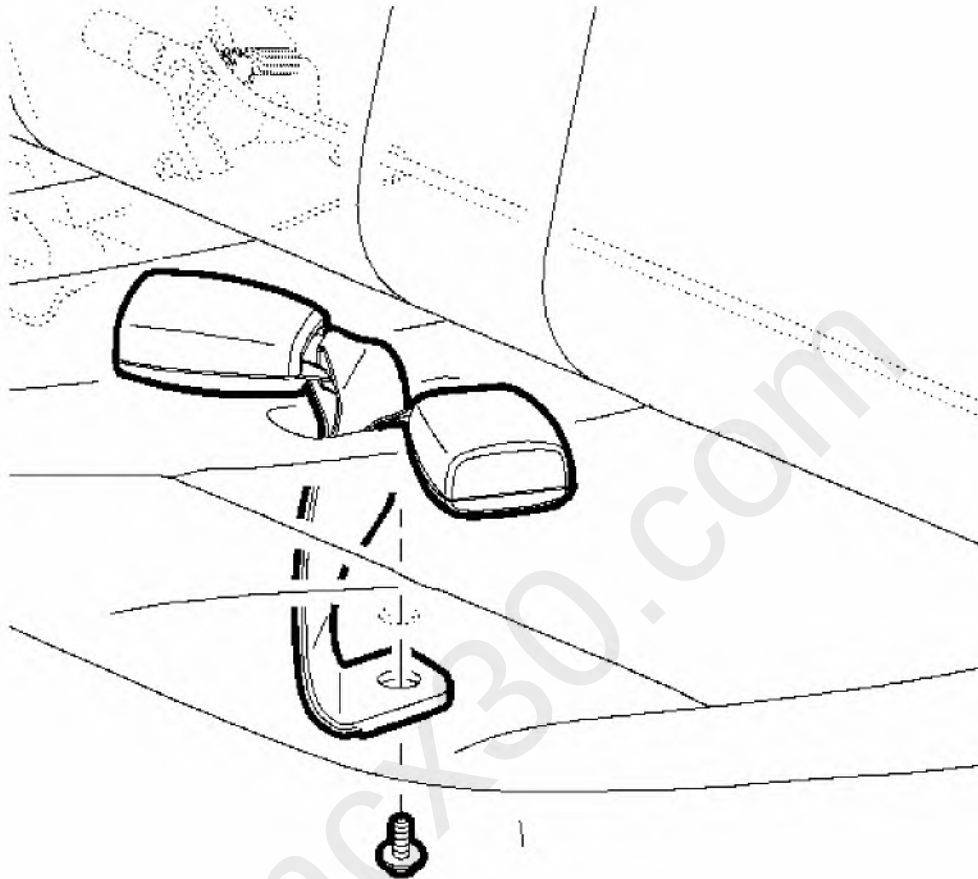


Fig. 19: Seat Cushion & Buckle
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Apply Permatex® 24200 on all restraint fasteners prior to installation.

1. Route the buckle through the openings in the seat cushion.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the seat belt buckle with the fastener.

Tighten: Tighten the fasteners to 50 N.m (37 lb ft).

3. Install the rear seat assembly. Refer to **Seat Replacement - Rear** in Seats.

SEAT BELT REPLACEMENT - FRONT (QUICK CONNECT)

Removal Procedure

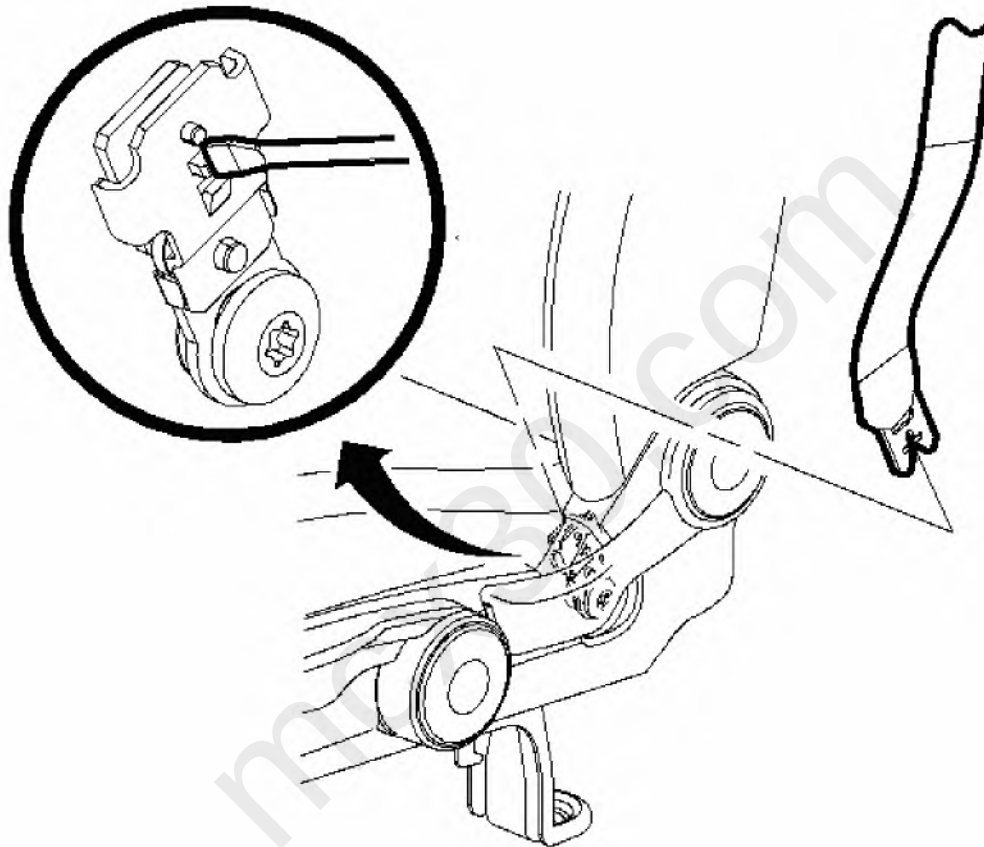


Fig. 20: Depressing The Button On Seat Buckle Quick Disconnect Using A Flat-Bladed Tool

Courtesy of GENERAL MOTORS CORP.

1. Using a small flat-bladed tool, depress the button on the seat buckle quick disconnect feature while pulling up on the shoulder belt to disengage the shoulder belt from the front seat assembly.
2. Remove the lower garnish molding from the center pillar. Refer to **Garnish Molding Replacement - Center Pillar Lower** in Interior Trim.

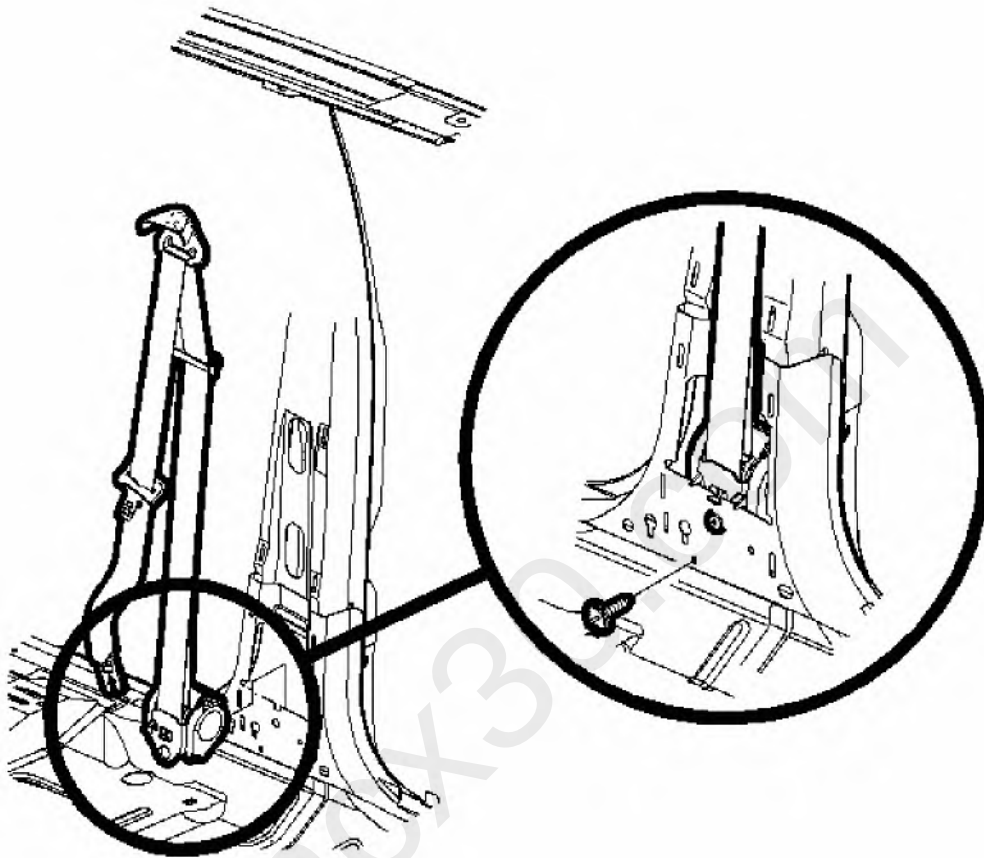


Fig. 21: Retractor Fastener
Courtesy of GENERAL MOTORS CORP.

3. Remove the retractor fastener and remove the retractor.
4. Remove the shoulder belt webbing retainer by pulling on the retainer while using a flat-bladed tool to disengage the attaching clips.
5. Remove the shoulder belt from the vehicle.

Installation Procedure

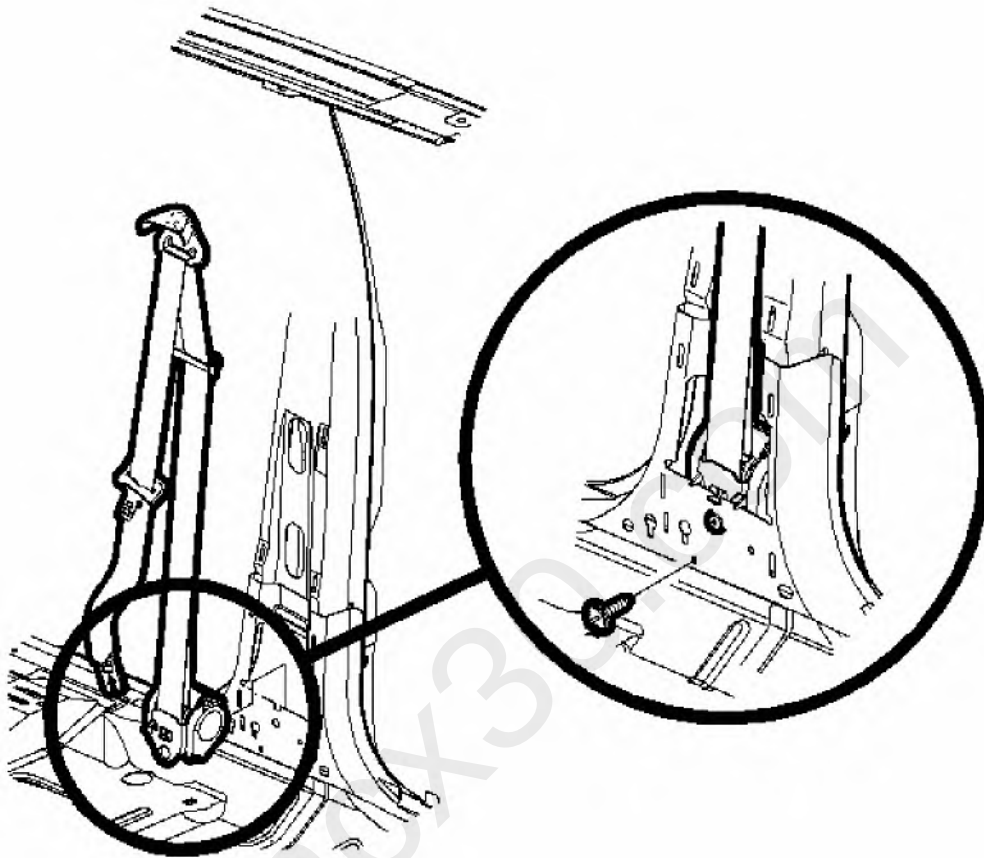


Fig. 22: Retractor Fastener
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Apply Permatex® 24200 on all restraint fasteners prior to installation.

1. Position the shoulder belt retractor into the center pillar positioning unit with the locking tab in the body structure notch.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the retractor fastener.

Tighten: Tighten the fastener to 45 N.m (33 lb ft).

3. Snap the shoulder belt webbing retainer into the center pillar.
4. Install the lower garnish molding into the center pillar. Refer to **Garnish Molding Replacement - Center Pillar Lower** in Interior Trim.

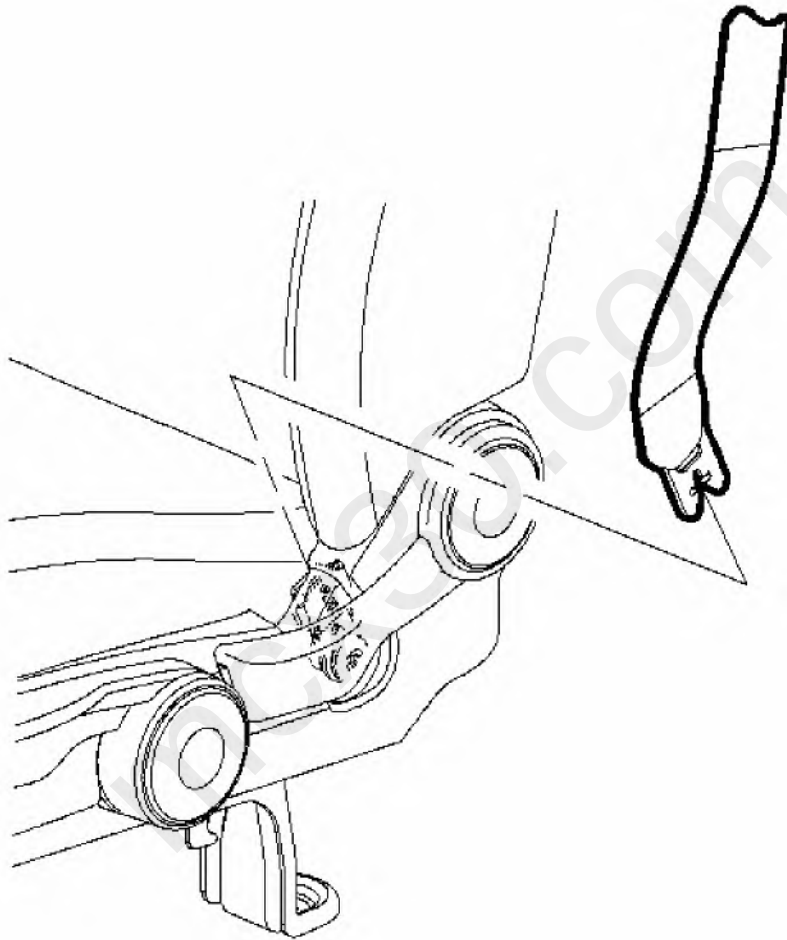


Fig. 23: Shoulder Belt Assembly & Front Seat Mini-Belt Buckle
Courtesy of GENERAL MOTORS CORP.

5. Install the seat belt to the seat assembly.

SEAT BELT REPLACEMENT - REAR

Removal Procedure

1. Remove the rear lower quarter trim. Refer to **Trim Panel Replacement - Rear Quarter Lower** in Interior Trim.

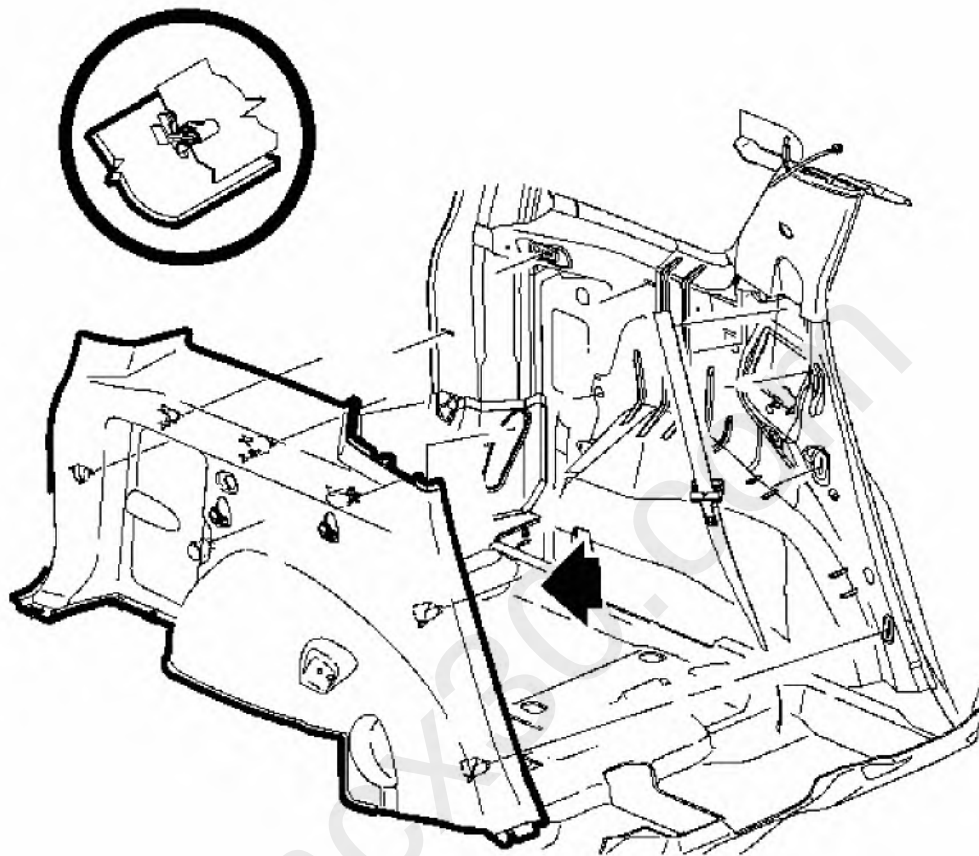


Fig. 24: Disconnecting Accessory Wire Harness
Courtesy of GENERAL MOTORS CORP.

2. Remove the rear wheel quarter trim panel by pulling at the attaching clip locations.
3. On the driver side, disconnect the auxiliary plug wire harness connection.

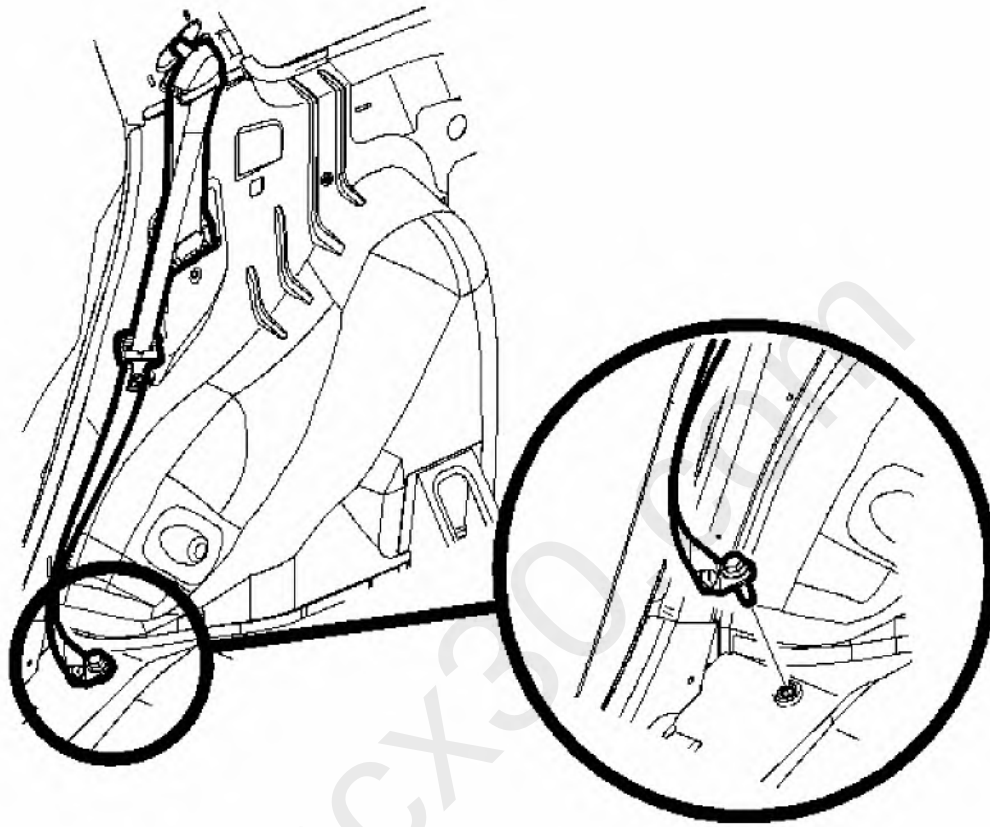


Fig. 25: Shoulder Belt Fastener
Courtesy of GENERAL MOTORS CORP.

4. Remove the shoulder belt fastener at the floor.

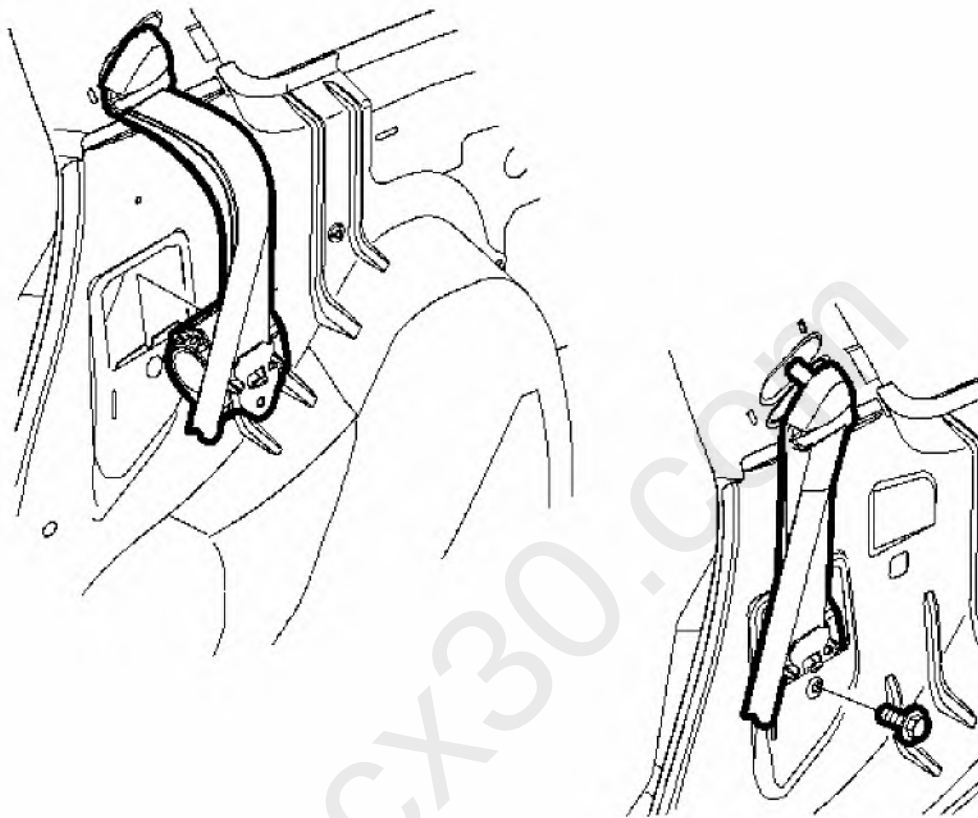


Fig. 26: Retractor Fastener
Courtesy of GENERAL MOTORS CORP.

5. Remove the retractor fastener and remove the retractor.

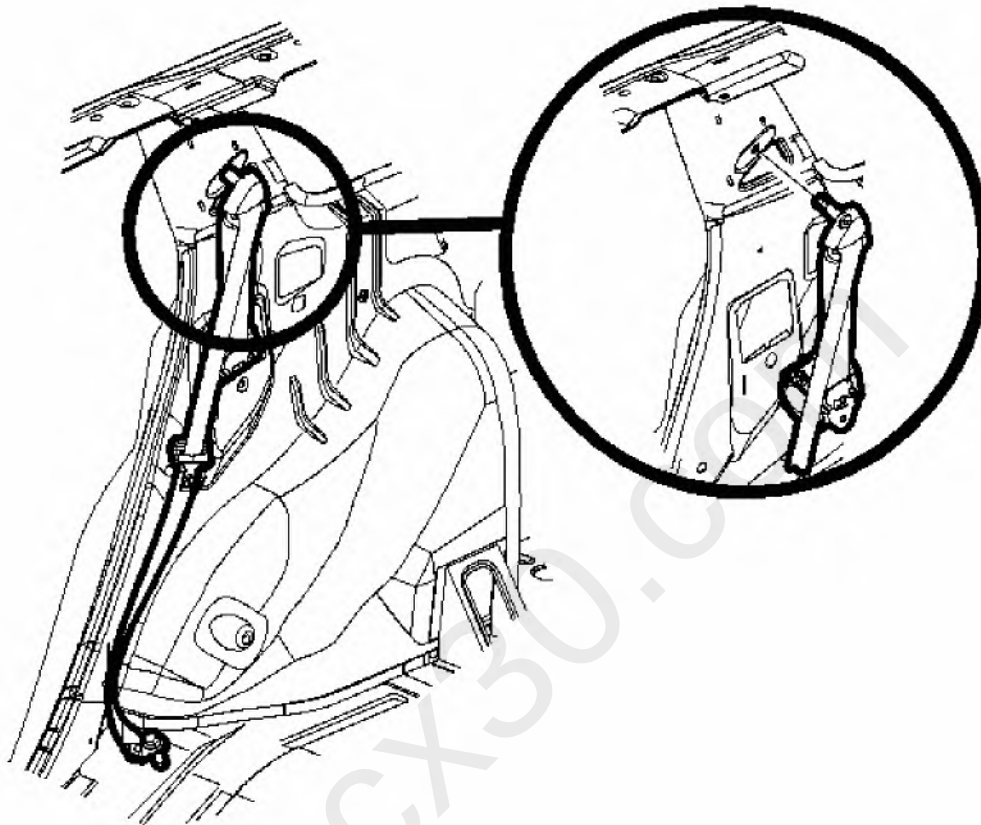


Fig. 27: View Of Lock Pillar Upper Garnish Molding
Courtesy of GENERAL MOTORS CORP.

6. Unsnap the upper fastener cover and remove the shoulder belt upper fastener. Remove the shoulder belt assembly.

Installation Procedure

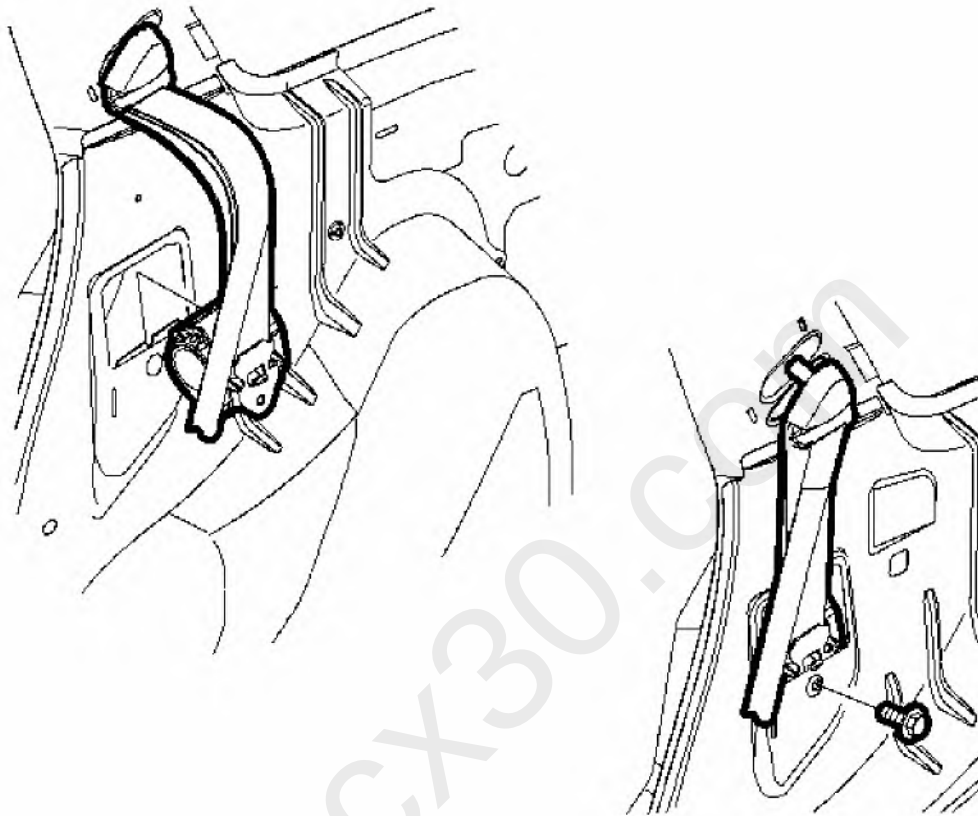


Fig. 28: Retractor Fastener
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

IMPORTANT: Apply Permatex® 24200 on all restraint fasteners prior to installation.

1. Position the retractor into the structure. Verify that the locking tabs are in place. Install the fastener.

Tighten: Tighten the fastener to 45 N.m (33 lb ft).

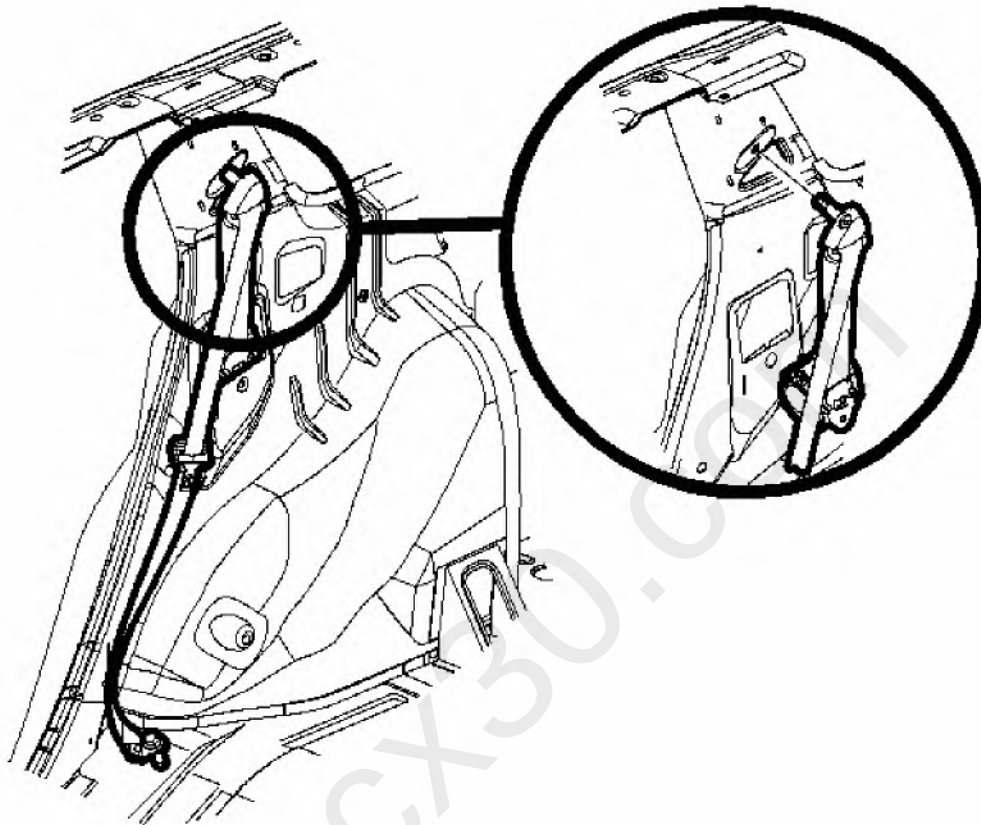


Fig. 29: View Of Lock Pillar Upper Garnish Molding
Courtesy of GENERAL MOTORS CORP.

2. Install the shoulder belt upper fastener.

Tighten: Tighten the fastener to 45 N.m (33 lb ft).

3. Snap the fastener cover closed.

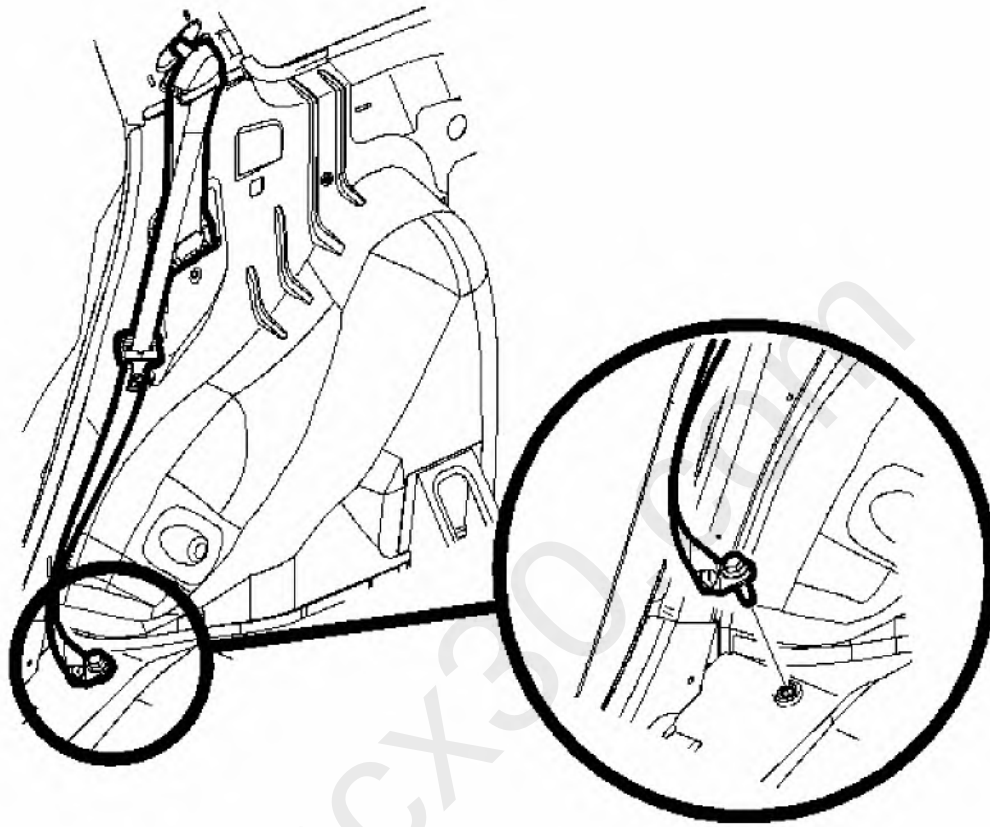


Fig. 30: Shoulder Belt Fastener
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Verify that the belt is not twisted during installation.

4. Install the shoulder belt to the floor with the fastener.

Tighten: Tighten the fastener to 45 N.m (33 lb ft).

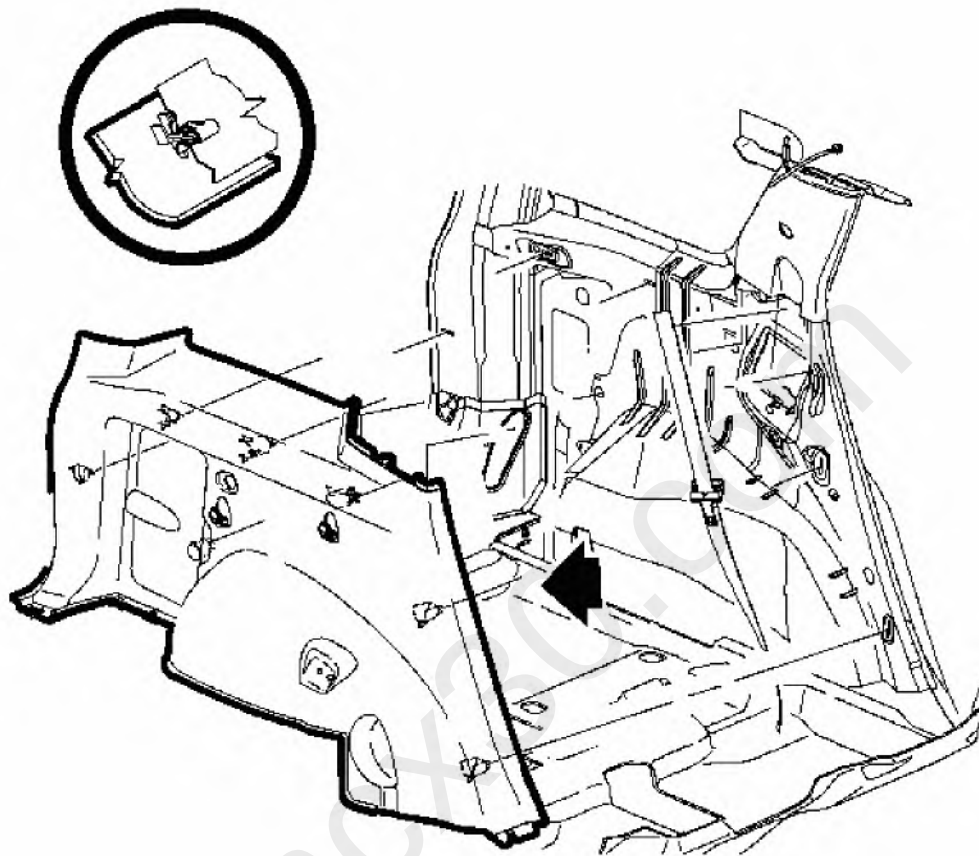


Fig. 31: Disconnecting Accessory Wire Harness
Courtesy of GENERAL MOTORS CORP.

5. On the driver side, connect the auxiliary plug connection.
6. Install the lower quarter trim. Refer to **Trim Panel Replacement - Rear Quarter Lower** in Interior Trim.
7. Operate the shoulder belt to ensure proper installation.

SEAT BELT REPLACEMENT - CENTER REAR

Removal Procedure

1. Remove the rear seat assembly. Refer to **Seat Replacement - Rear** in Seats.
2. Remove the seat back cover. Refer to **Seat Back Cover and Pad Replacement - Rear (Passenger Side, 40 Percent)** or **Seat Back Cover and Pad Replacement - Rear**

(Driver Side, 60 Percent) in Seats.

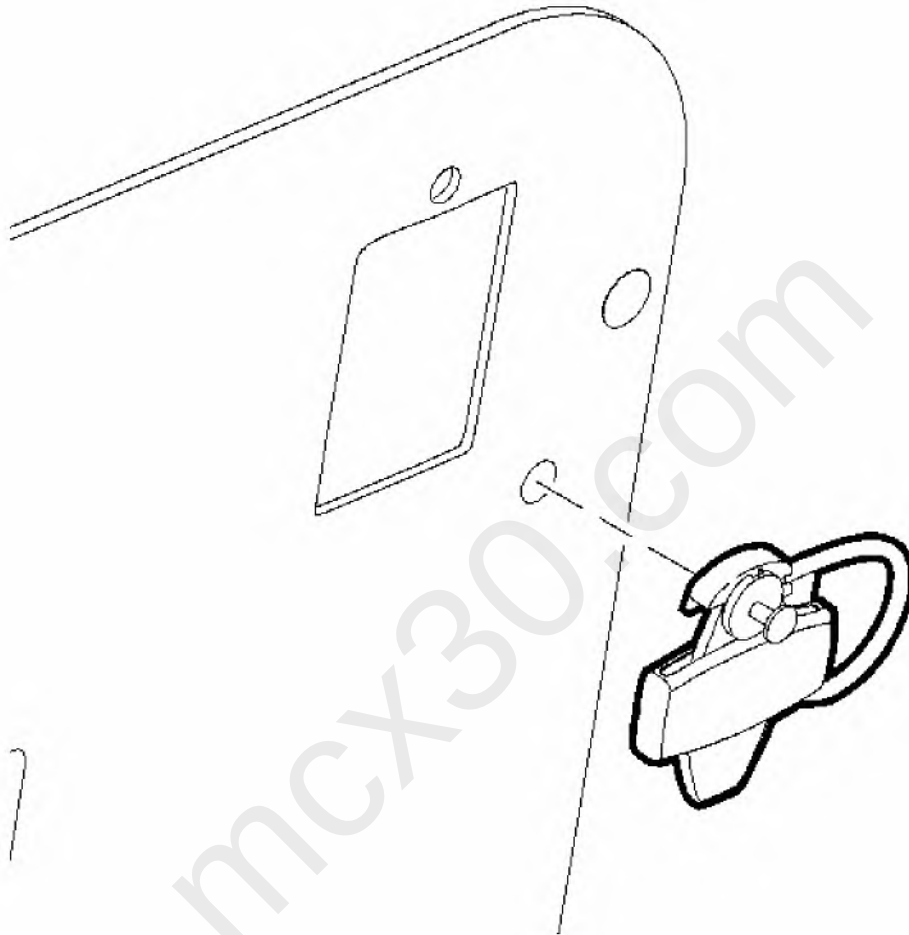


Fig. 32: Removing/Installing Child Comfort Guide
Courtesy of GENERAL MOTORS CORP.

3. Remove the comfort guide, if equipped.
4. Remove the seat back cover.

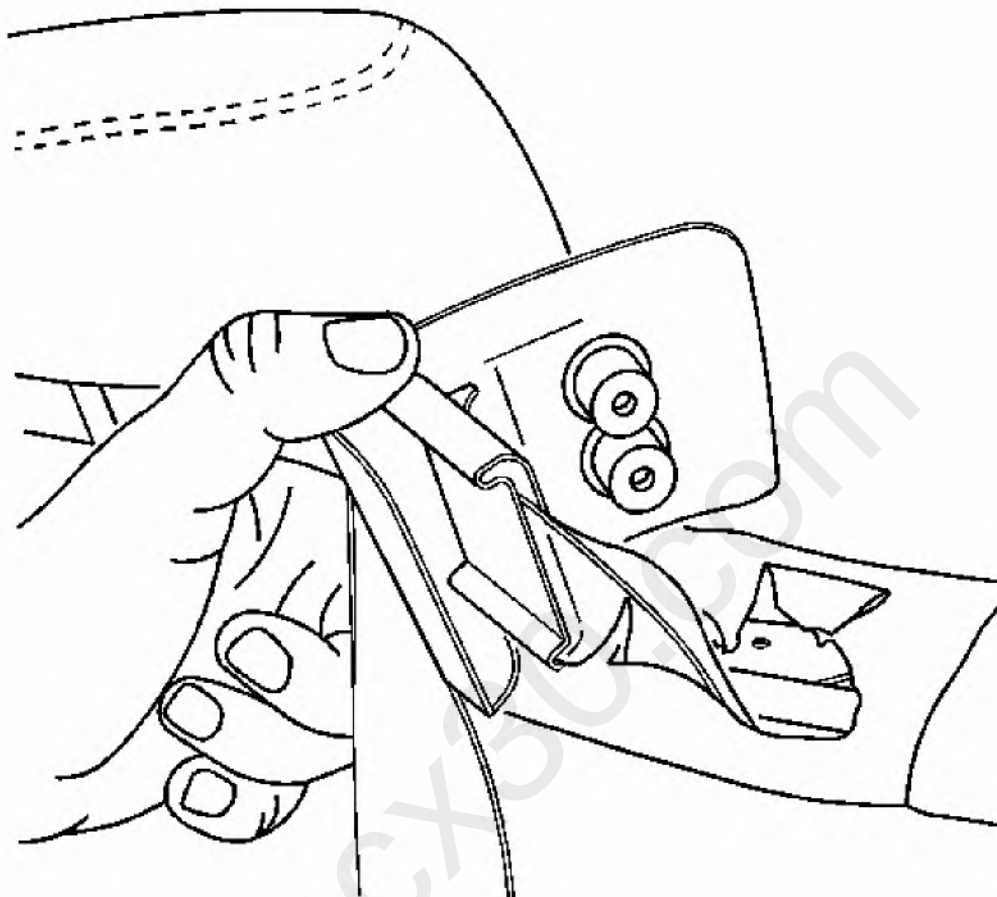


Fig. 33: View Of Seat Belt Webbing Through Seat Back Trim Cover
Courtesy of GENERAL MOTORS CORP.

5. Feed the seat belt webbing, the bezel, and the anchor plate through the cover.

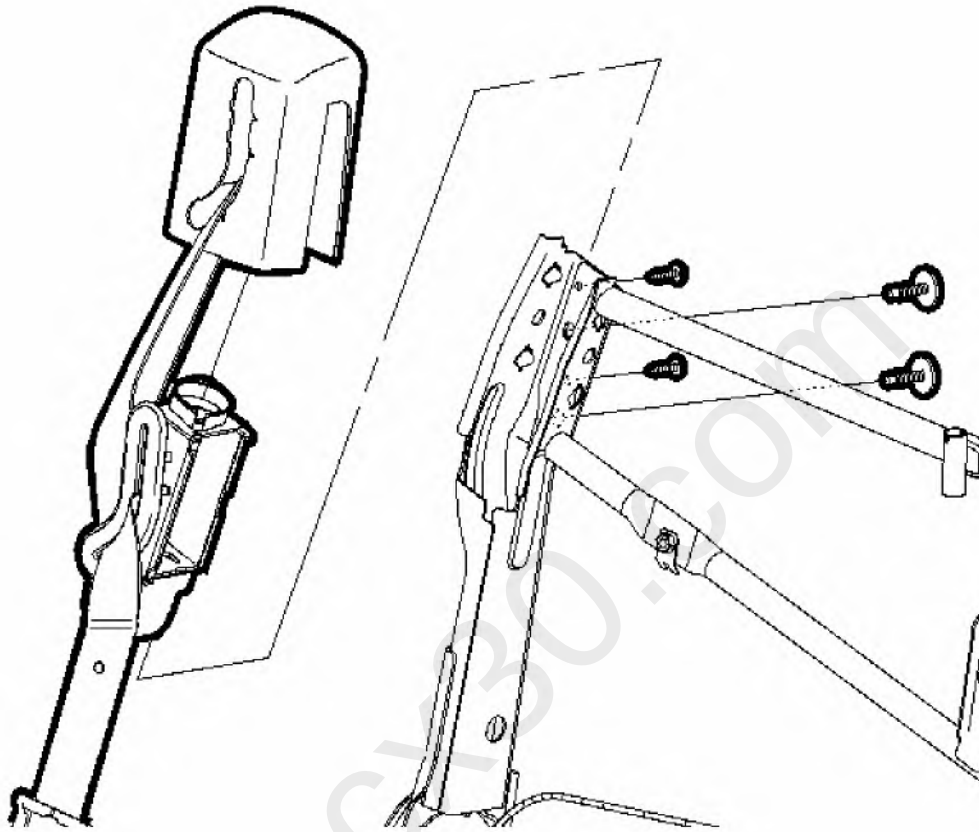


Fig. 34: Retractor Cover & Fasteners
Courtesy of GENERAL MOTORS CORP.

6. Remove the retractor cover fasteners.
7. Remove the rear shoulder belt fasteners.
8. Pull upward on the retractor unit cover and remove the retractor from the rear seat back frame.

Installation Procedure

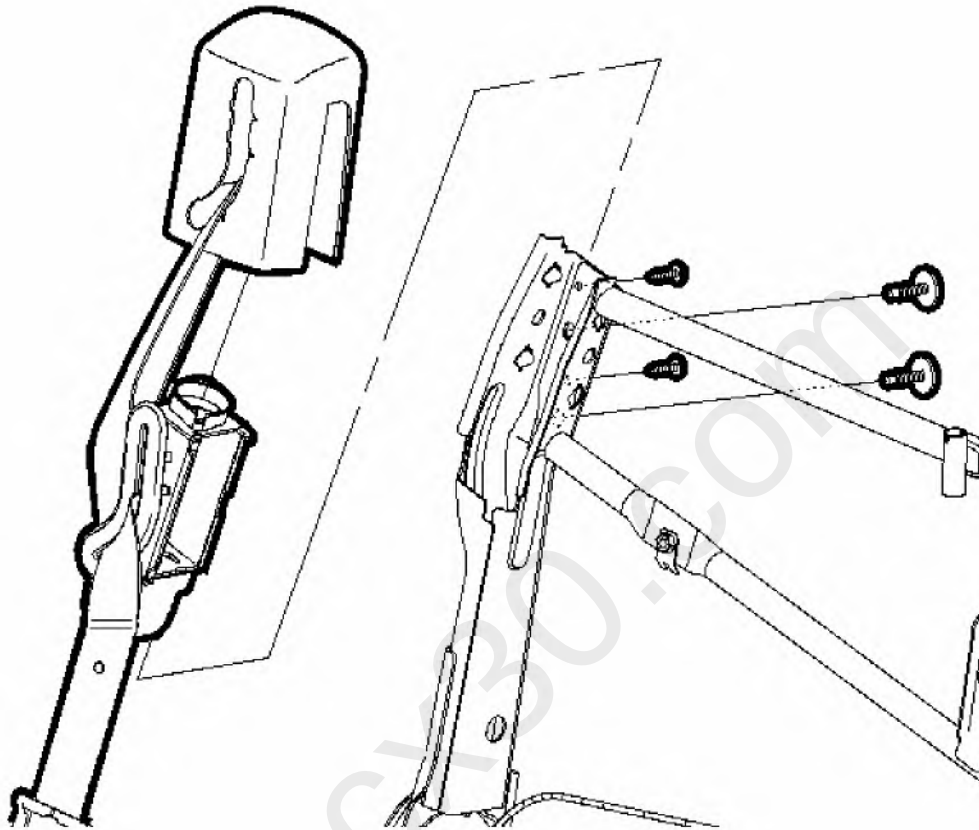


Fig. 35: Retractor Cover & Fasteners
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

IMPORTANT: Apply Permatex® 24200 on all restraint fasteners prior to installation.

1. Position the retractor into the rear seat back frame and install the fasteners.

Tighten: Tighten the fasteners to 45 N.m (33 lb ft).

2. Position the retractor cover over the shoulder belt retractor and install the TORX® fasteners.

Tighten: Tighten the fasteners to 20 N.m (15 lb ft).

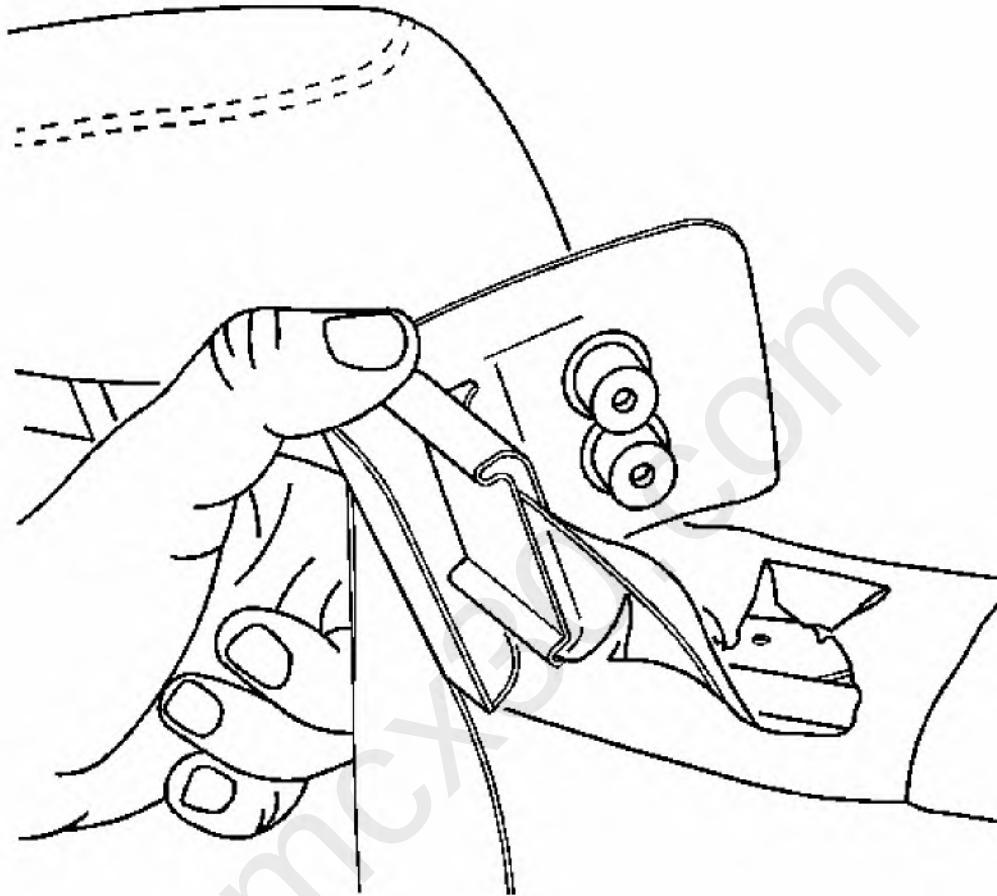


Fig. 36: View Of Seat Belt Webbing Through Seat Back Trim Cover
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Verify that the shoulder belt is not twisted.

3. Route the webbing and the escutcheon through the seat back trim cover.
4. Continue to install the seat back trim cover by pressing over the hook and loop locations to ensure proper engagement.

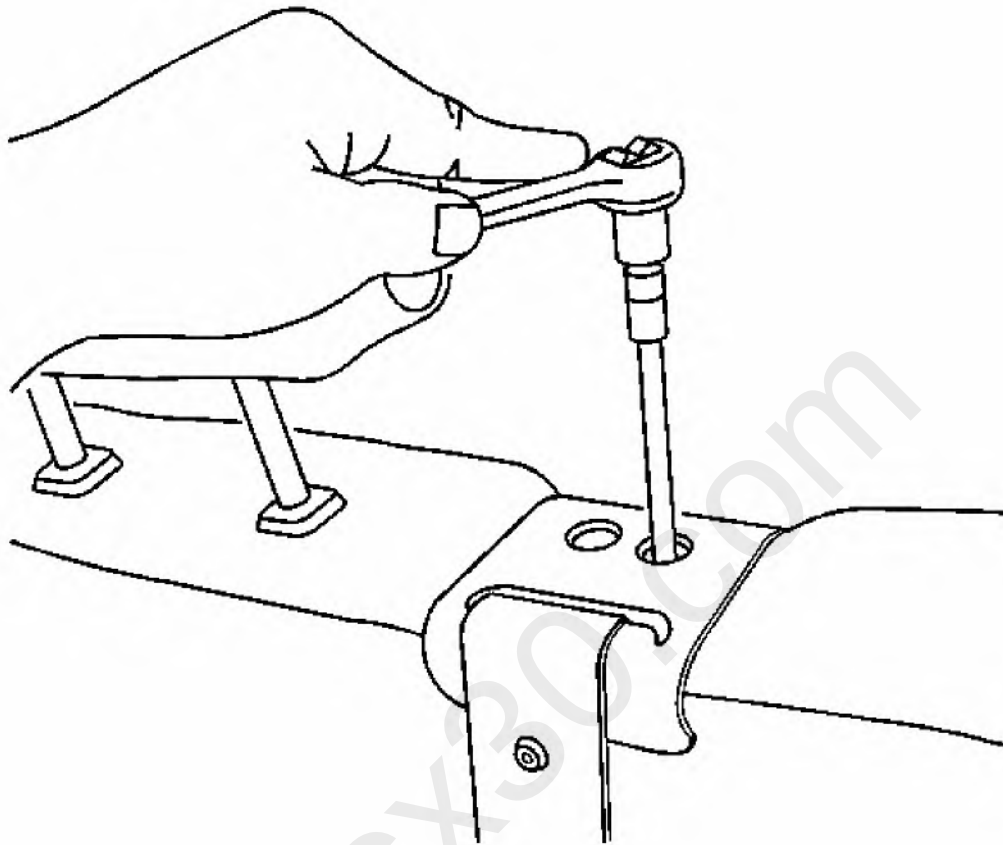


Fig. 37: Removing/Installing Shoulder Belt Bezel
Courtesy of GENERAL MOTORS CORP.

5. Install the seat belt webbing bezel.

Tighten: Tighten the rear seat belt center bezel screws to 2.5 N.m (22 lb in).

6. Install the seat back cover. Refer to **Seat Back Cover and Pad Replacement - Rear (Passenger Side, 40 Percent)** or **Seat Back Cover and Pad Replacement - Rear (Driver Side, 60 Percent)** in Seats.

SEAT BELT HEIGHT ADJUSTER REPLACEMENT - FRONT

Removal Procedure

1. Remove the center pillar upper garnish molding. Refer to **Garnish Molding Replacement - Center Pillar Lower** in Interior Trim.

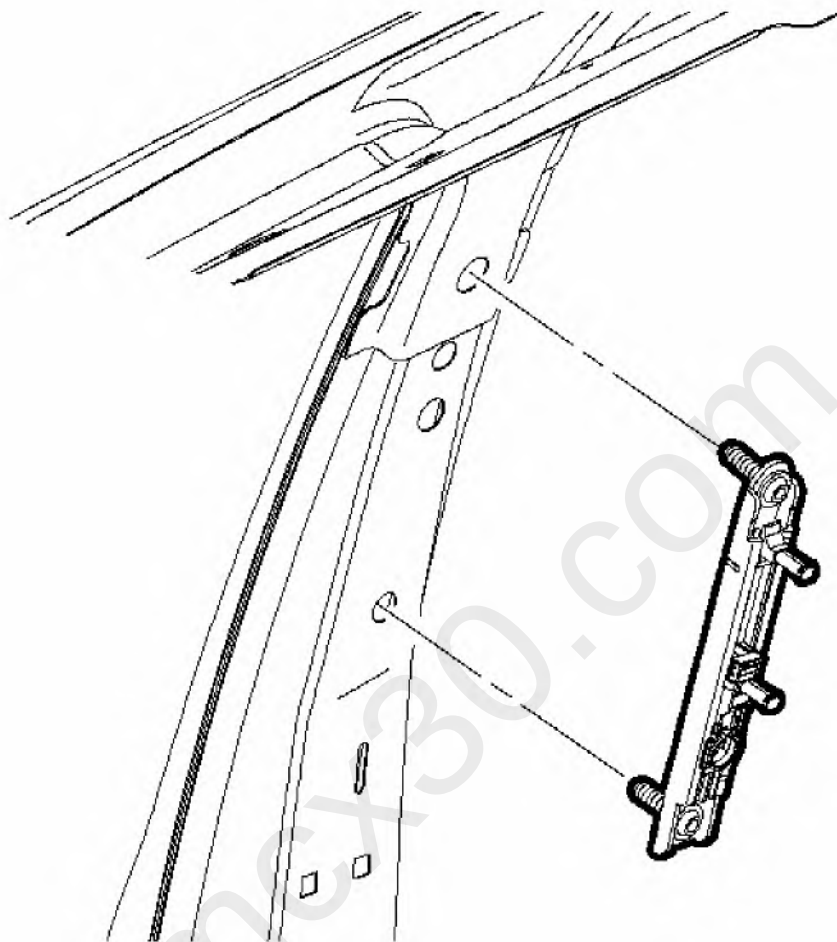


Fig. 38: Shoulder Belt Height Adjuster
Courtesy of GENERAL MOTORS CORP.

2. Remove the fasteners from the shoulder belt height adjuster. Remove the height adjuster.

Installation Procedure

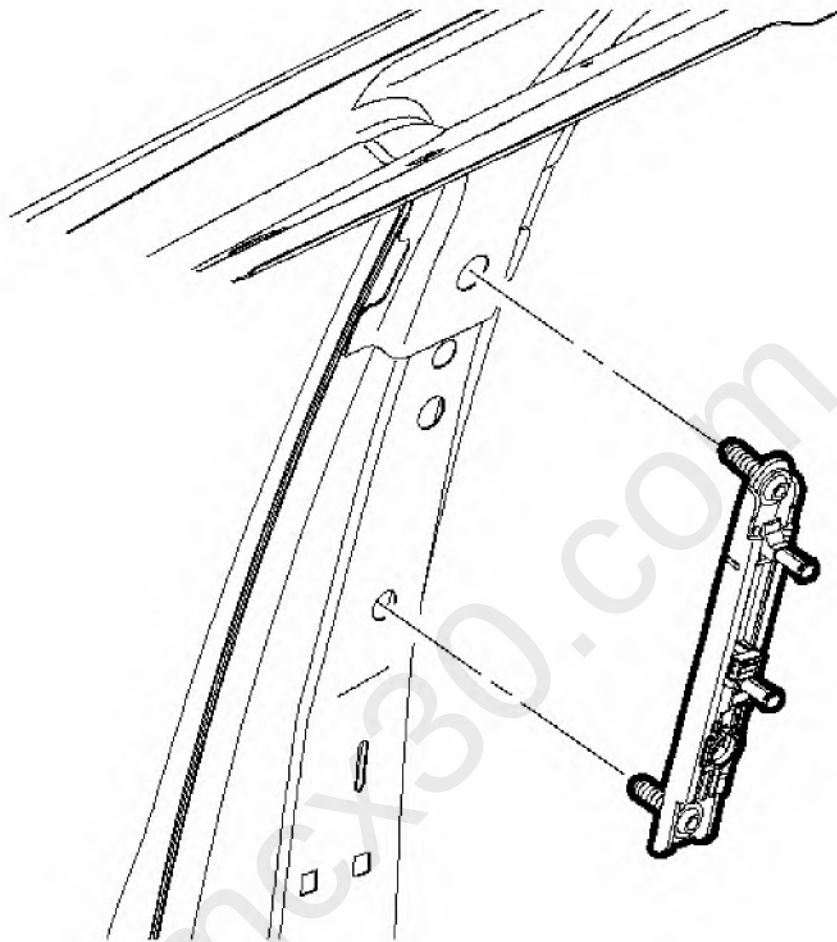


Fig. 39: Shoulder Belt Height Adjuster
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice in Cautions and Notices.

IMPORTANT: Apply Permatex® 24200 on all restraint fasteners prior to installation.

1. Install the shoulder belt height adjuster with the fasteners.

Tighten: Tighten the fasteners to 40 N.m (30 lb ft).

2. Install the center pillar upper garnish molding. Refer to Garnish Molding Replacement - Center Pillar Lower in Interior Trim

3. Operate the shoulder belt to ensure proper installation.

BEZEL REPLACEMENT - CHILD RESTRAINT TETHER ANCHOR

Removal Procedure

1. Fold down the rear seat back.

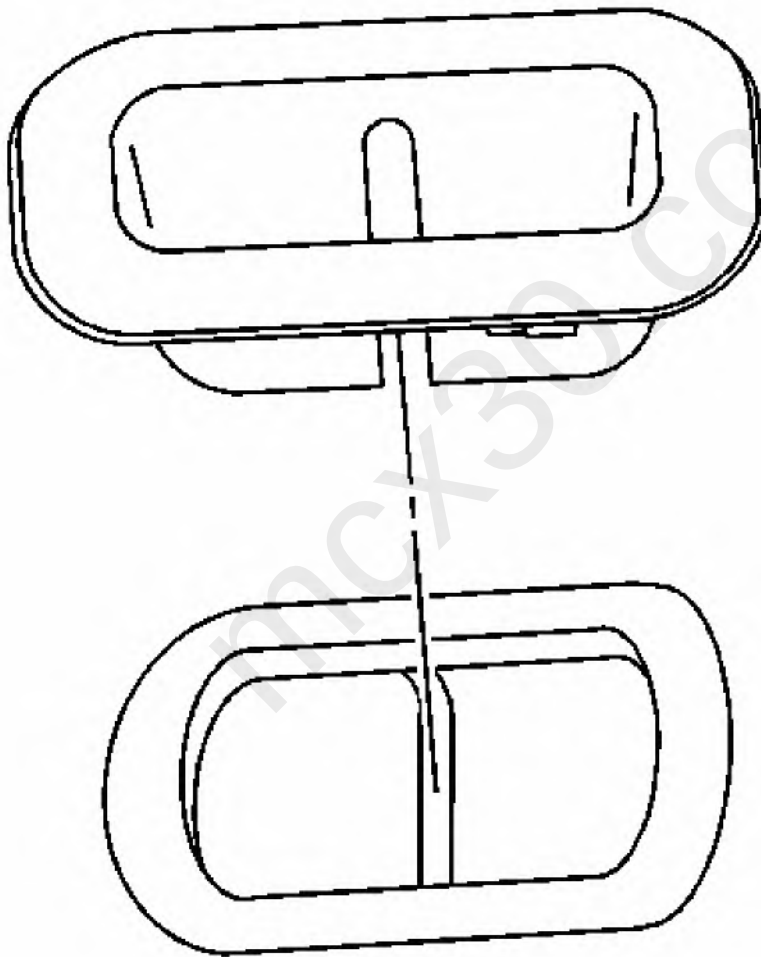


Fig. 40: Tether Anchor Bezel
Courtesy of GENERAL MOTORS CORP.

2. Remove the tether anchor bezel by pulling up at the sides.

Installation Procedure

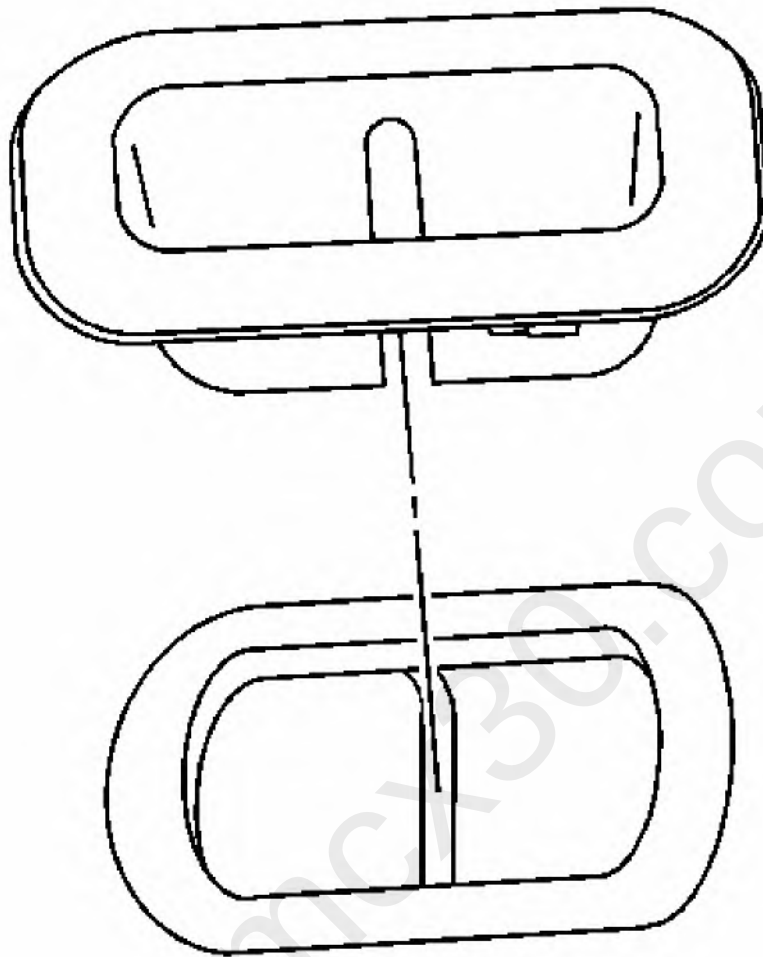


Fig. 41: Tether Anchor Bezel
Courtesy of GENERAL MOTORS CORP.

1. Install the tether anchor bezel by pushing down on the sides.
2. Move the rear seat back to the upright position.

CHILD RESTRAINT TETHER ANCHOR REPLACEMENT (EARLY PRODUCTION)

Removal Procedure

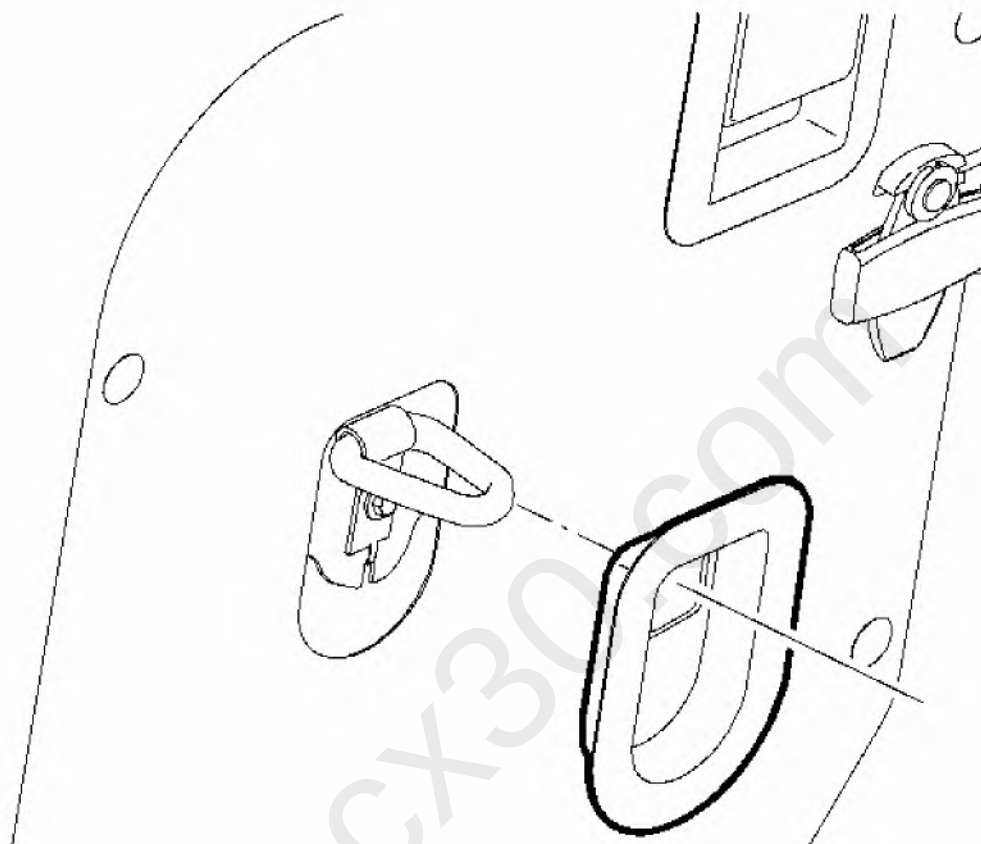


Fig. 42: Removing/Installing Child Tether Anchor Escutcheon
Courtesy of GENERAL MOTORS CORP.

1. Fold down the rear seat back.
2. Remove the tether anchor escutcheon by pulling up at the sides.

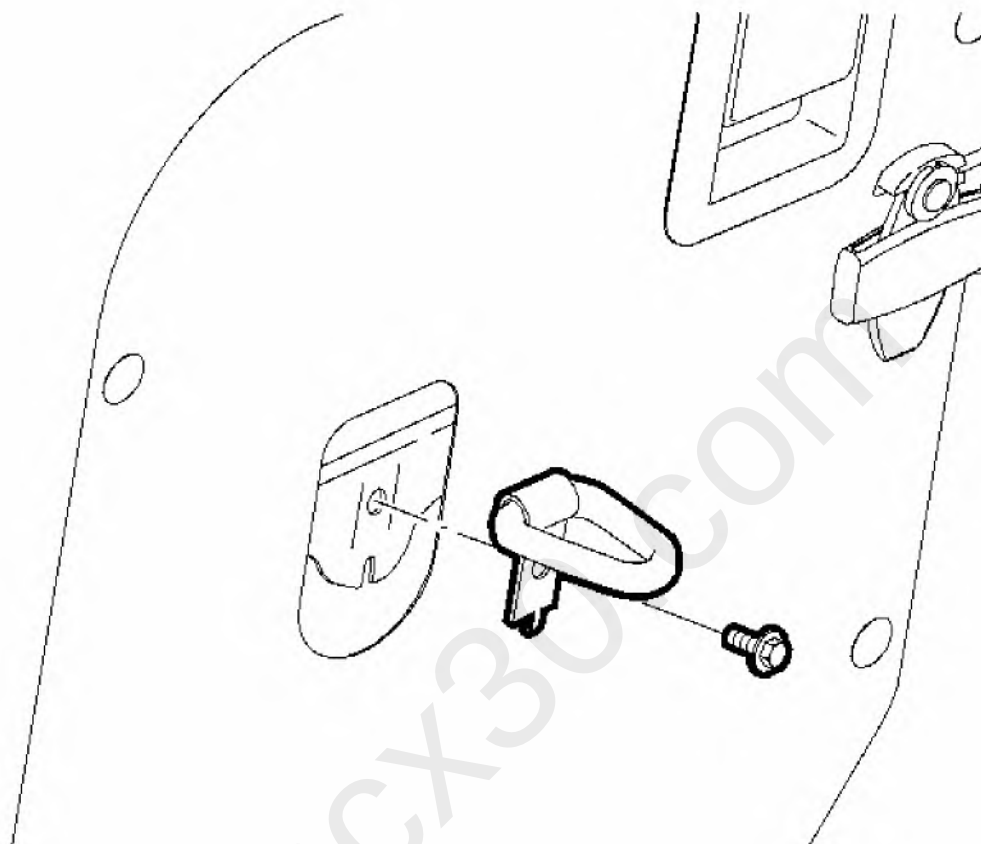


Fig. 43: Tether Anchor & Fastener
Courtesy of GENERAL MOTORS CORP.

3. Remove the tether anchor fastener and remove the tether anchor.

Installation Procedure

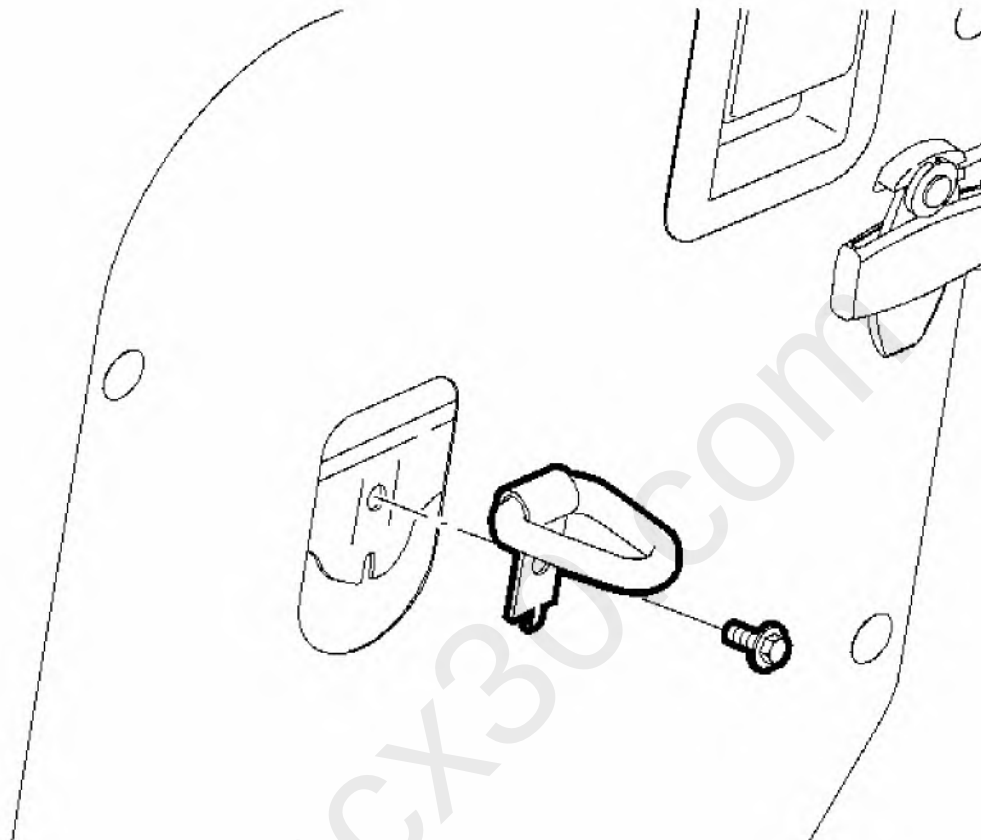


Fig. 44: Tether Anchor & Fastener
Courtesy of GENERAL MOTORS CORP.

1. Position the tether anchor onto the rear seat structure.

NOTE: Refer to Fastener Notice in Cautions and Notices.

IMPORTANT: Verify that the tether anchor tab is inserted into the notch.

2. Install the tether anchor fastener.

Tighten: Tighten the fastener to 25 N.m (18 lb ft).

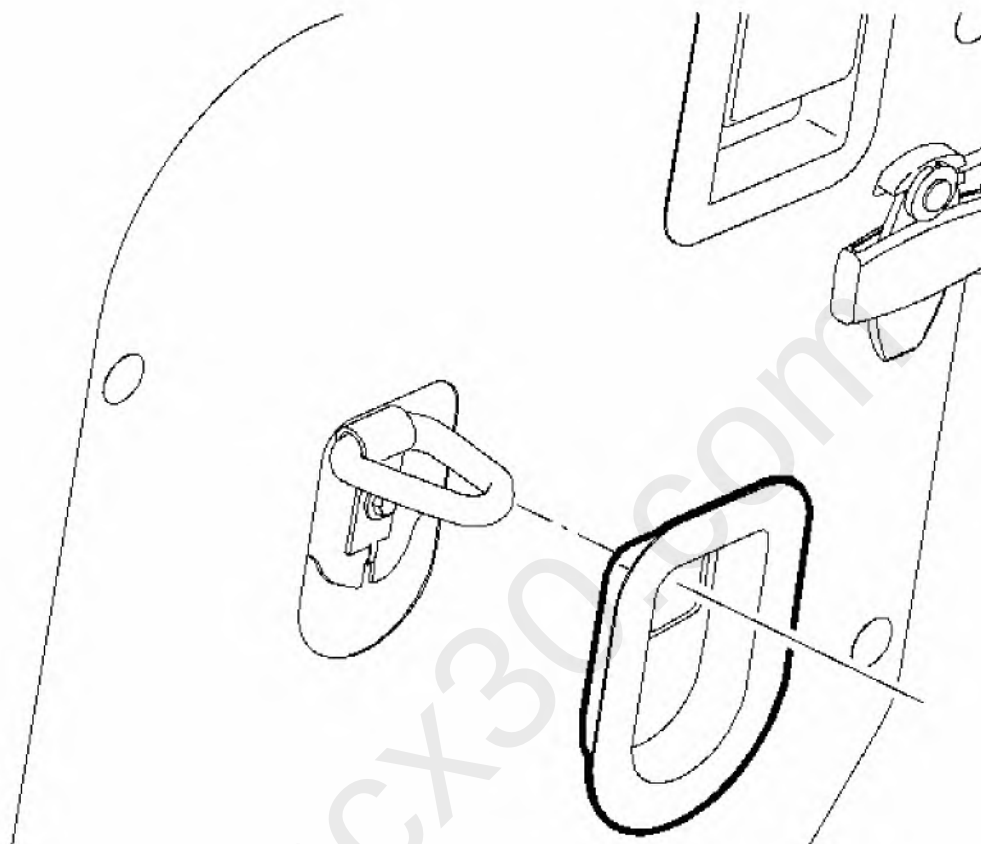


Fig. 45: Removing/Installing Child Tether Anchor Escutcheon
Courtesy of GENERAL MOTORS CORP.

3. Install the tether anchor escutcheon.

GUIDE REPLACEMENT - REAR SEAT SHOULDER BELT

Removal Procedure

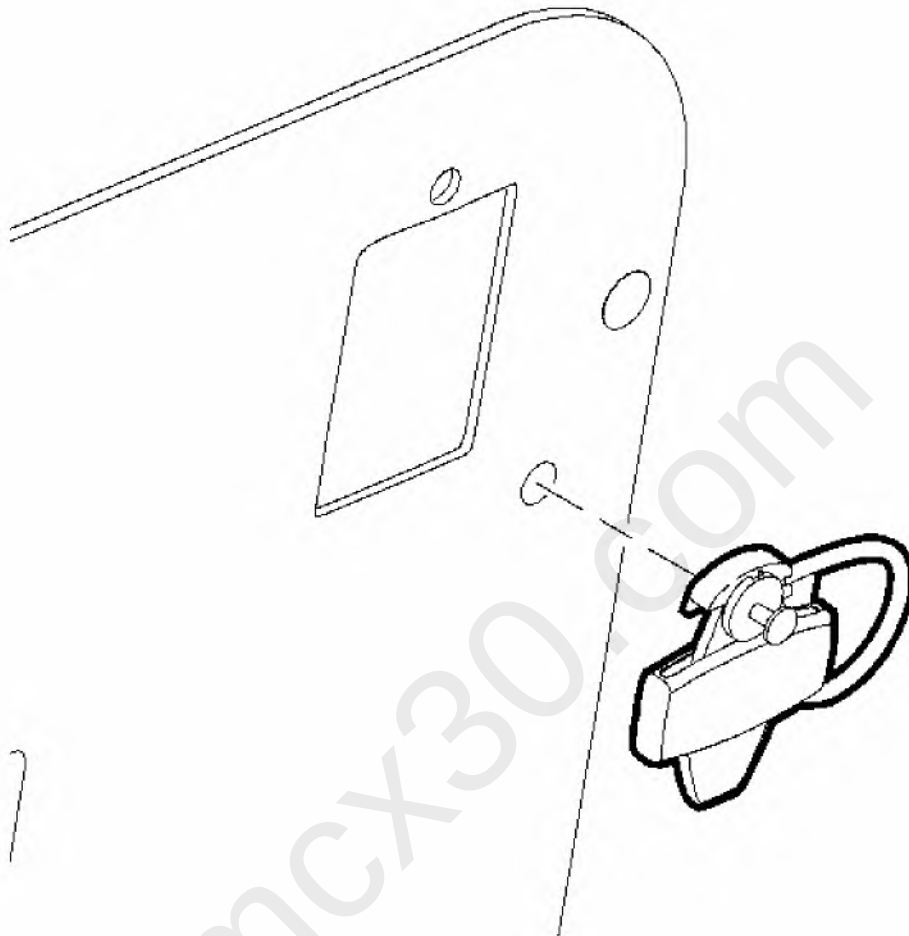


Fig. 46: Removing/Installing Child Comfort Guide
Courtesy of GENERAL MOTORS CORP.

1. Lower the rear seat assembly.
2. Remove the shoulder belt from the comfort guide.
3. Remove the comfort guide retainer and remove the comfort guide.

Installation Procedure

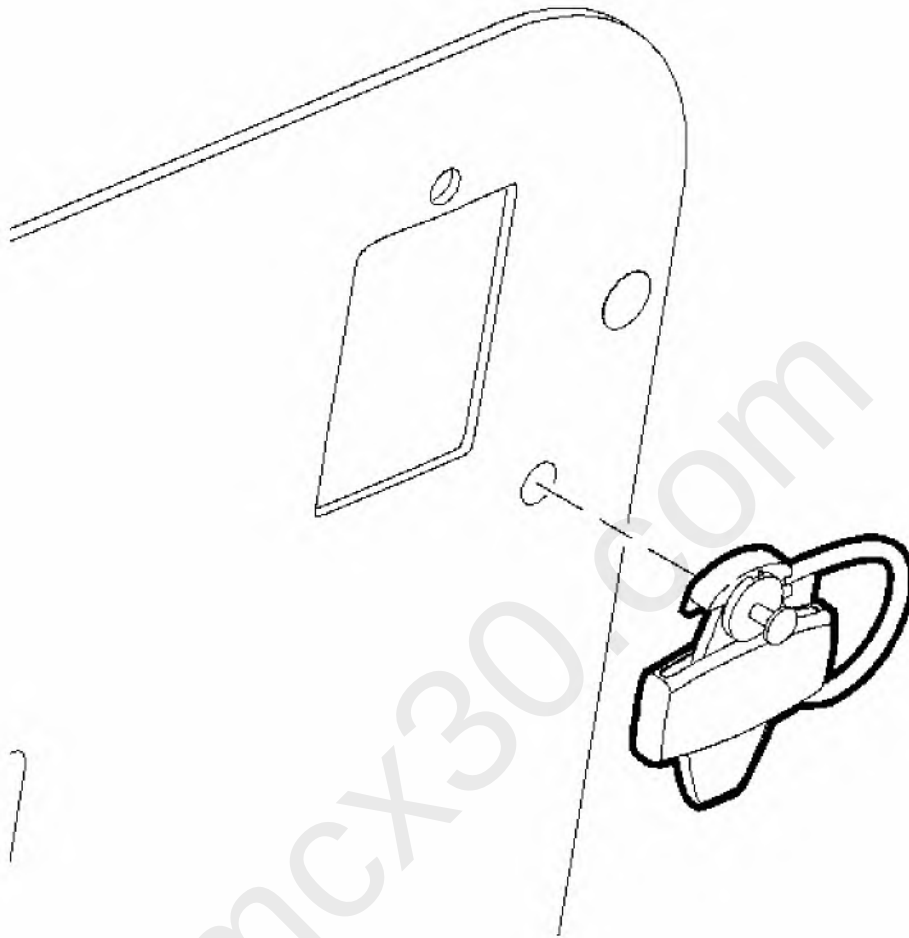


Fig. 47: Removing/Installing Child Comfort Guide
Courtesy of GENERAL MOTORS CORP.

1. Install the comfort guide to the rear seat back with the retainer.
2. Install the comfort guide to the shoulder belt assembly.
3. Operate the rear seat shoulder belt assembly to verify proper installation.

DESCRIPTION AND OPERATION

SEAT BELT SYSTEM DESCRIPTION AND OPERATION

Restraint System

IMPORTANT: If the vehicle has been in a collision, refer to Repairs and Inspections Required After a Collision for additional

information.

Seat belts are the primary means of occupant restraint. Seat belts help to keep the occupants inside the passenger compartment and to gradually reduce the impact forces during the following events:

- Frontal impact type crashes
- Rear impact type crashes
- Side impact type crashes
- Roll-over type crashes

All seat belt retractors have emergency locks. The retractors remain unlocked during normal operation and under normal driving conditions. The retractors remain unlocked during normal conditions in order to allow free movement of the upper body of each occupant. A pendulum locks the seat belt webbing into position. The pendulum causes a locking bar to engage a cog on the spool of the retractor mechanism when the following conditions occur:

- A rapid extraction of the seat belt webbing from the retractor
- An abrupt change in vehicle speed
- An abrupt change in vehicle direction
- Operation of the vehicle on a steep upgrade
- Operation of the vehicle on a steep downgrade

This vehicle is also equipped with a supplemental inflatable restraint (SIR) system. Refer to **SIR System Description and Operation** in SIR.

Front Seat Belt System

The front seat belt system includes a driver and a passenger inflatable restraint seat belt retractor and buckle. For additional information on seat belt pretensioners, refer to **SIR System Description and Operation** in SIR.

The driver seat belt system includes a seat belt switch in the driver seat buckle which controls a reminder lamp and a tone alarm.

- When the driver seat belt is buckled, the driver door is closed, and the ignition switch is turned ON, the following events will occur:
 - The tone alarm will not operate.
 - The reminder lamp will not operate.
- When the driver seat belt is not buckled, the driver door is closed, and the ignition switch is in ON position, the following events will occur:
 - The tone alarm will operate for 4 to 8 seconds and then go OFF.

- The fasten safety belt indicator will turn ON for 20 seconds, until the driver seat belt is buckled.

Rear Seat Belt System

The rear seat belt system includes the following components:

- The rear seat belt retractor is located under the rear shelf trim panel and is attached to the rear shelf body panel.
- The center rear seat belt buckle and the outer seat belt buckle are located in the center of the seat cushion. The seat belt buckles are attached to the rear floor pan.

Child Seat Restraint System

CAUTION: A child in a rear-facing child restraint can be seriously injured if the right-front passenger's air bag inflates. This is because the back of a rear-facing child restraint would be very close to the inflating air bag. NEVER use a rear-facing child restraint in this vehicle. If a forward-facing child restraint is suitable for your child, ALWAYS move the front passenger seat as far back as it will go and then install the child restraint. Be sure the child restraint position does not conflict with any additional requirements provided by the manufacturer. For more information, refer to the vehicle owner's manual and the instruction that came with the child restraint.

The child seat may only be used in a forward facing seating location. The child seat should be installed and secured according to the manufacturer's directions. If the child seat has a top strap, the seat will need to be anchored. Passengers should not be allowed to sit at locations where the seat belts are being used to secure the child seat.

This seat belt system has an automatic locking (cinch) feature. Use of the cinch feature is recommended for securing a child seat. The cinch feature is activated when the seat belt webbing is completely extended from the retractor. The cinch feature prevents the webbing from extending beyond the position from which it is allowed to retract. The cinch feature may be cancelled by allowing the webbing to wind back completely into the retractor. After the cinch feature is cancelled, the webbing will extend from the retractor.

If a child seat is to be used in the second seat position, a special dealer-installed anchor must be used in order to anchor the child seat top strap. (This only applies to the seats designed with the top strap provision and for the vehicles sold in Canada). In order to ensure the correct top strap angle, the child seat is only to be used at the seating position for which the top strap anchor is installed.

Fasten Safety Belt Indicator (Red)

The fasten safety belt indicator may only be ON during RUN. The instrument panel cluster (IPC) illuminates the fasten safety belt indicator under the following conditions:

- The inflatable restraint sensing and diagnostic module (SDM) detects that the driver seat belt is unbuckled. The IPC receives a Class 2 message from the SDM requesting illumination. The IPC illuminates the indicator for 20 seconds and then flashes the indicator for 55 seconds. If the driver seat belt is buckled anytime during this function, a Class 2 message shall be sent to the IPC to command the telltale OFF. The SDM also sends a Class 2 message to the IPC in order to activate an audible warning.
- The IPC performs the displays test at the start of each ignition cycle. The indicator illuminates for approximately 3 seconds.