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-  [Rear Seat Back Latch Replacement \(60 Percent Seat\)](#)
-  [Rear Seat Back Cushion Cover and Pad Replacement - Left Side](#)
-  [Rear Seat Back Cushion Cover and Pad Replacement - Right Side](#)
-  [Thread Repair](#)
-  [Special Tools and Equipment](#)

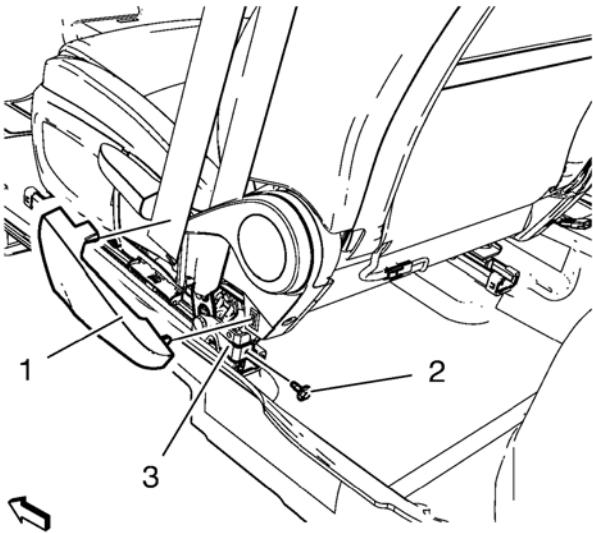
Fastener Tightening Specifications

Application	Specification	
	Metric	English
Front Seat Adjuster Bolt	20 N·m	15 lb ft
Front Seat Anchor Plate Bolt	9 N·m	80 lb in
Front Seat Backrest Bolt	34.5 N·m	25 lb ft
Front Seat Belt Buckle Bolt	45 N·m	33 lb ft
Front Seat Cushion Inner Trim Panel Screw	2.5 N·m	22 lb in
Front Seat Cushion Outer Trim Panel Screw	2.5 N·m	22 lb in
Front Seat Mounting Bolt	45 N·m	33 lb ft
Rear Seat Back Armrest Hinget Nut	4.5 N·m	40 lb in
Rear Seat Back Armrest Hinge Bolt	9 N·m	80 lb in

Driver or Passenger Seat Replacement

Removal Procedure

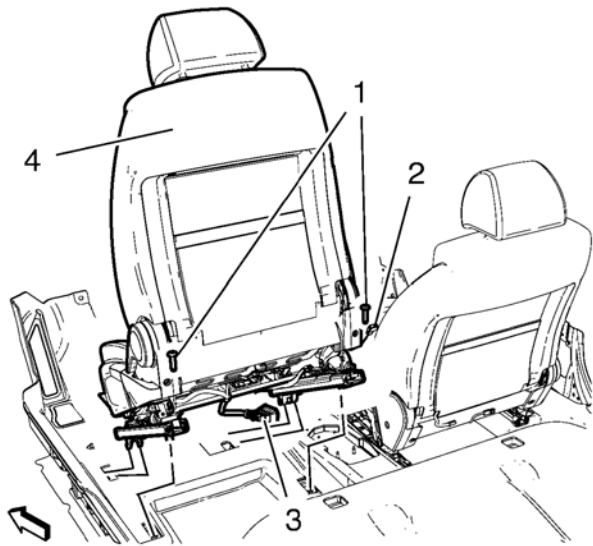
Warning: Refer to [SIR Warning](#) in the Preface section.



Warning: When carrying a live inflator module, make sure the bag opening is pointed away from you. This minimizes the chance of injury in the case of an accidental deployment. Never carry the inflator module by the wires. Never carry the inflator module by the connector on the underside of the module.

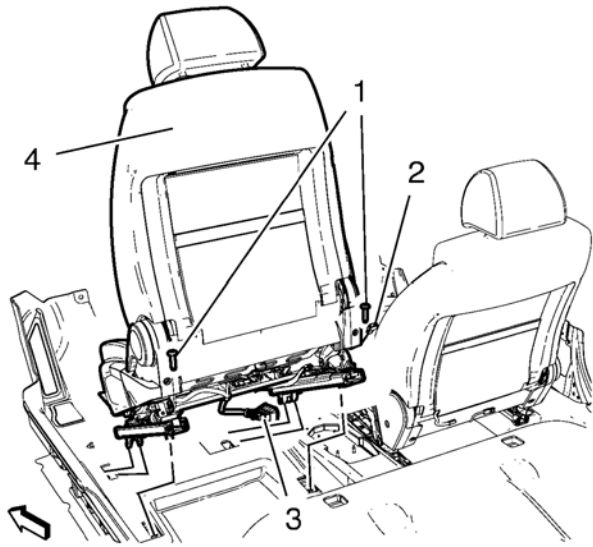
Make sure that the bag and trim cover are facing up whenever you place a live inflator module on any surface. This is necessary to provide a free space for the bag to expand in the unlikely event of accidental deployment. Never rest the steering column assembly on the steering wheel with the inflator module face down, and the column vertical. This may result in personal injury.

1. Disable the supplemental inflatable restraint (SIR) system. Refer to [SIR Disabling and Enabling](#).
2. Remove the front seat outer recliner upper finish cover (1).
3. Unscrew the bolt (2).
4. Remove the seat belt (3) from the front seat.



5. Unscrew the 2 bolts (1).
6. Disconnect the wiring harness plug (2) from the belt buckle.
7. Release and disconnect the wiring harness plug (3) front seat.
8. Remove the front seat (4) from the guide in front.

Installation Procedure

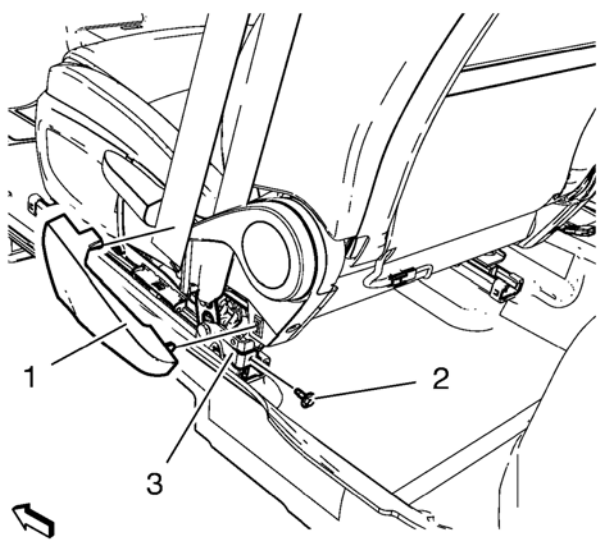


1. Perform the front seat track synchronization. Refer to [Front Seat Track Synchronization](#).
2. Install the front seat (4) to the guide in front.
3. Connect and latch the wiring harness plug (3) front seat.
4. Connect the wiring harness plug (2) from the belt buckle.

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

5. Tighten the 2 bolts (1).

Tighten
45 N·m (33 lb in)

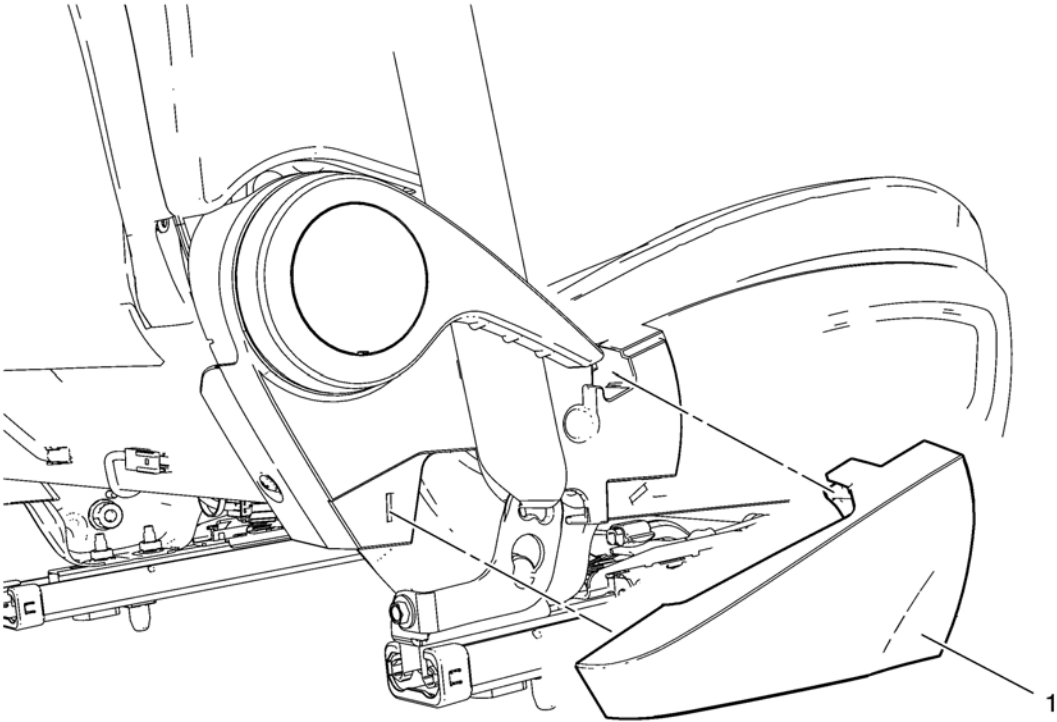


6. Install the seat belt (3) to the front seat.
7. Tighten the bolt (2).

Tighten
9 N·m (80 lb in)

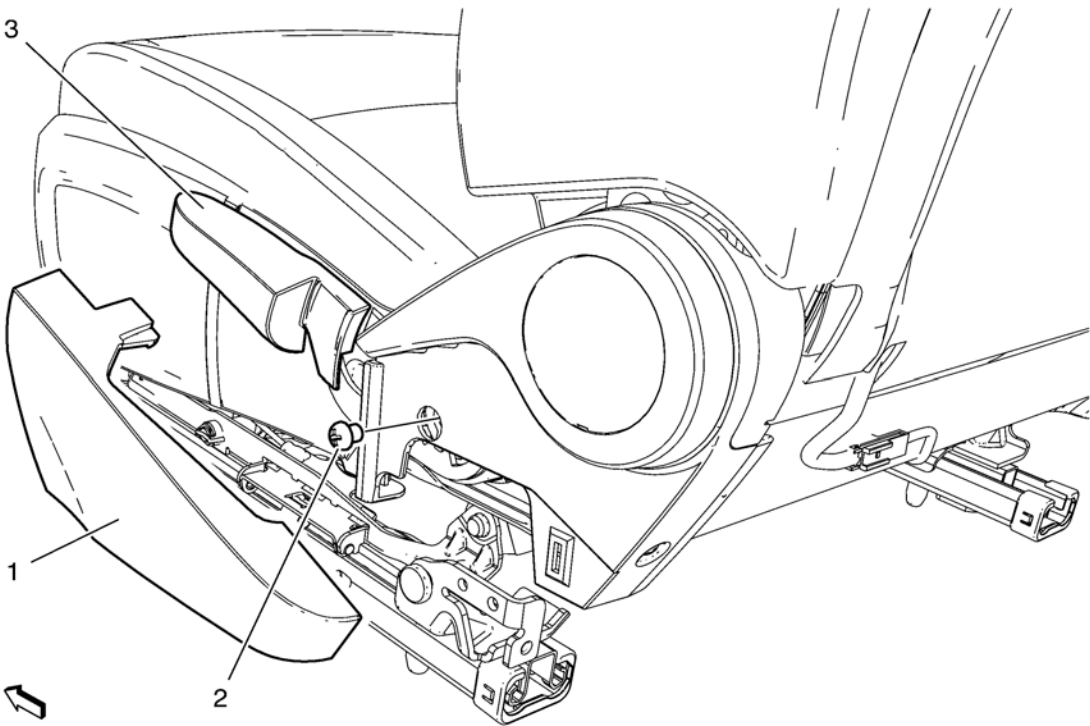
8. Install the front seat outer recliner upper finish cover (1).
9. Enable the SIR system. Refer to [SIR Disabling and Enabling](#).

Front Seat Outer Recliner Upper Finish Cover Replacement



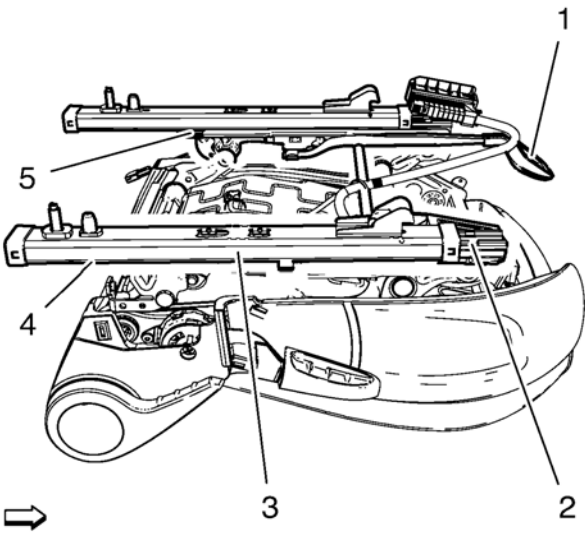
Callout	Component Name
1	Front Seat Outer Recliner Upper Finish Cover Assembly

Front Seat Adjuster Replacement



Callout	Component Name
1	Front Seat Outer Recliner Upper Finish Cover
2	Front Seat Adjuster Bolt Caution: Refer to Fastener Caution in the Preface section. Tighten 20 N·m(15 lb in)
3	Front Seat Adjuster

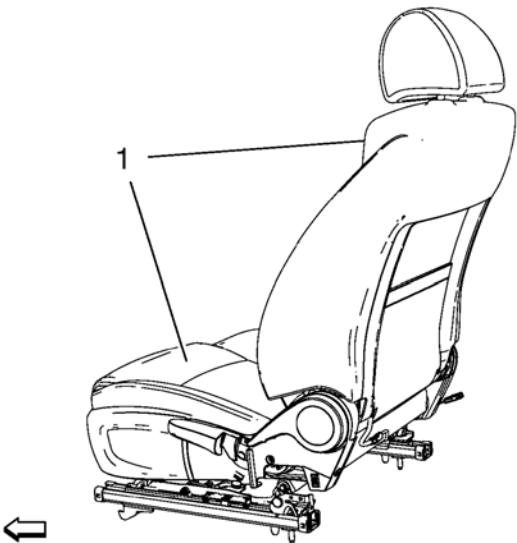
Front Seat Track Synchronization



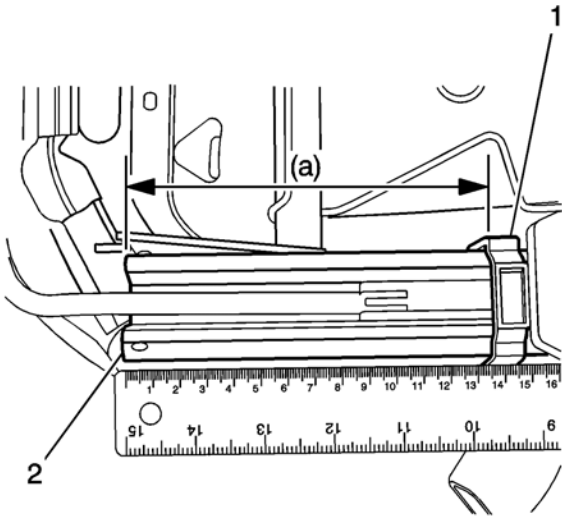
The fore/aft manual adjuster is composed of an inboard track assembly (5), and outboard track (4) assembly, and an adjuster handle (1). Each track assembly is made of an upper track (2) and a lower track (3). Both tracks need to be aligned prior to installing in the vehicle.

To align the front seat tracks, do the following:

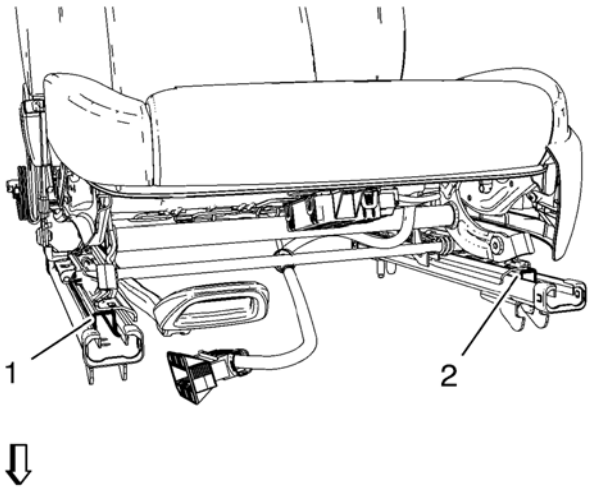
1. Remove the seat from the vehicle.



2. Put the seat (1) upside down on a table, or on the floor as shown.
3. Unlock both tracks by pushing the adjuster handle down.
4. While pushing the adjuster handle down, move each lower track rearward until contact between the end travel stops.
5. Release the adjuster handle.
6. Move each lower track forward until an audible noise is heard, indicating that the track is fully locked.
7. At this stage both manual tracks are aligned.

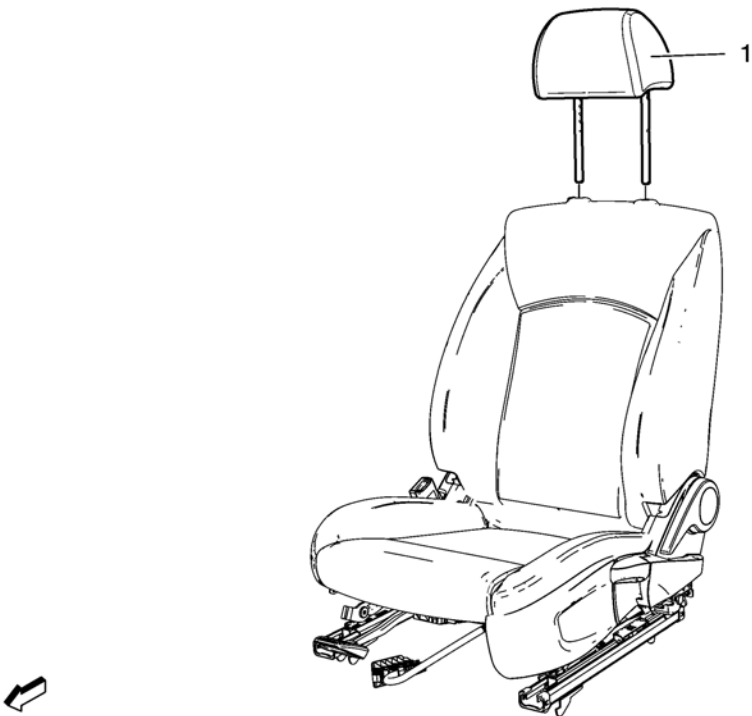


8. Measure the overhang from the front edge of the plastic end cap (1) on the lower track to the front edge of the upper track (2). Measurement for each track must be 138 mm or as close as possible.
9. Install the seat in the vehicle without touching the adjuster handle. Then tighten the rear bolts prior to any track adjustment.
10. While sitting in the seat, cycle the tracks fore/aft and lock the tracks at different positions. Check to see whether the tracks are aligned.



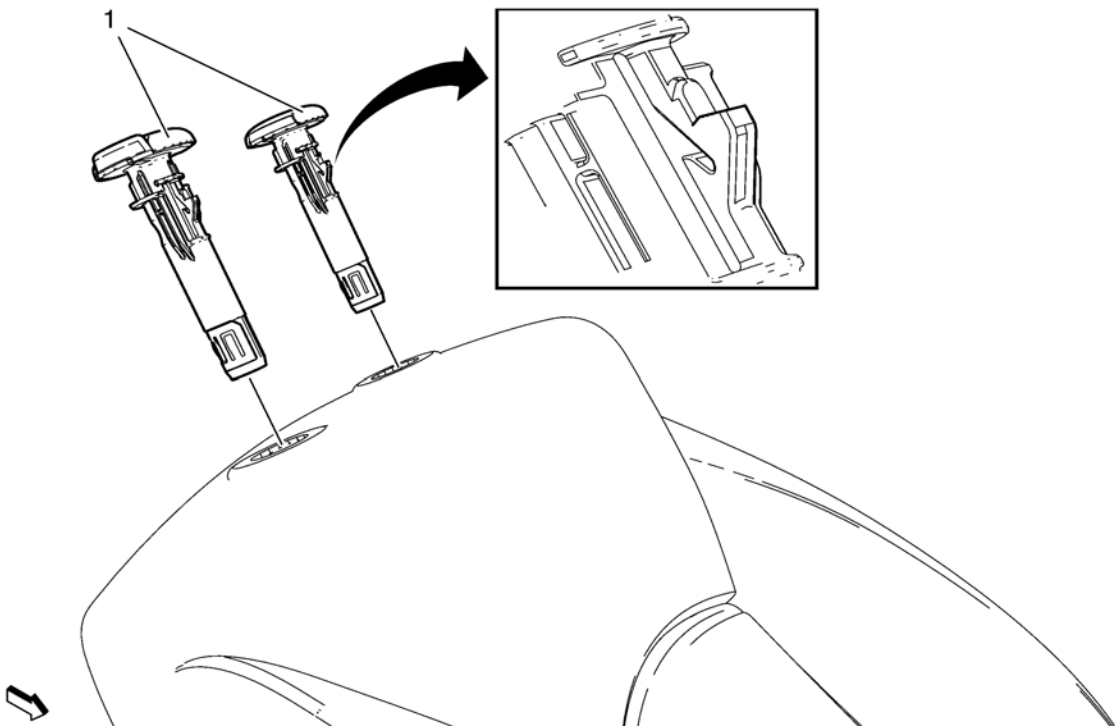
11. Visually inspect the tracks, adjust the upper tracks flush with the front of the lower tracks. Check that the configuration in locked position is identical for both inboard (1) and outboard tracks (2).

Driver or Passenger Seat Head Restraint Replacement



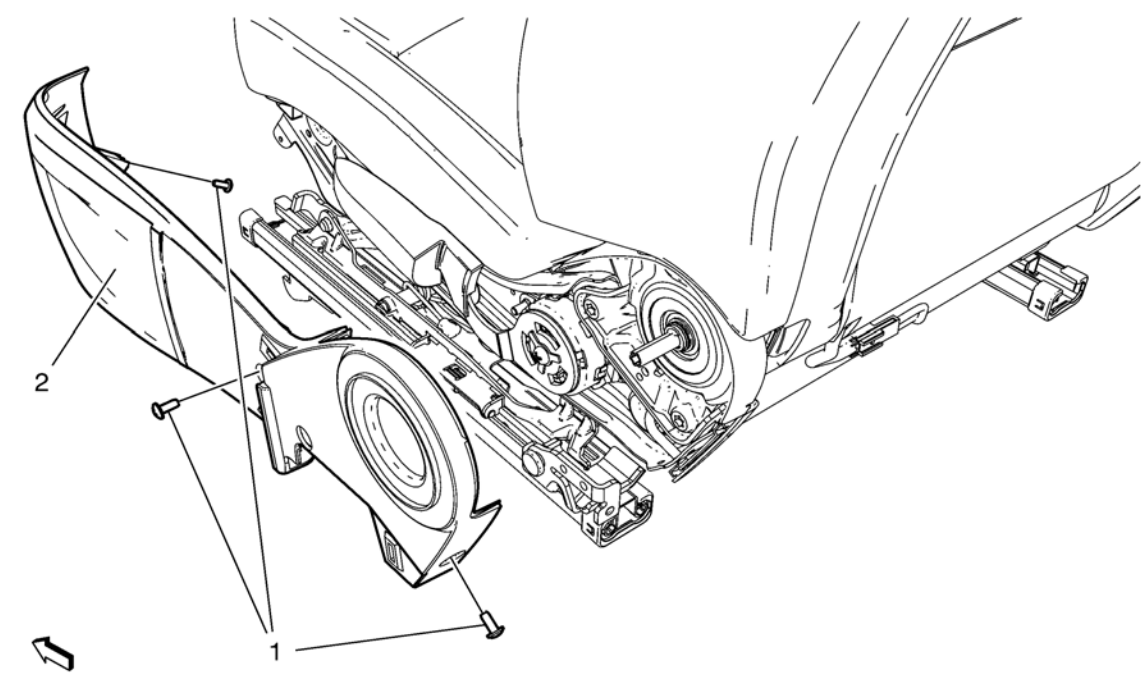
Callout	Component Name
1	Front Seat Head Restraint Procedure 1. Raise the headrest to the full upward position. 2. Depress the flush button on the head restraint guide. 3. Remove the head restraint by pulling up on the restraint.

Front Seat Head Restraint Guide Replacement



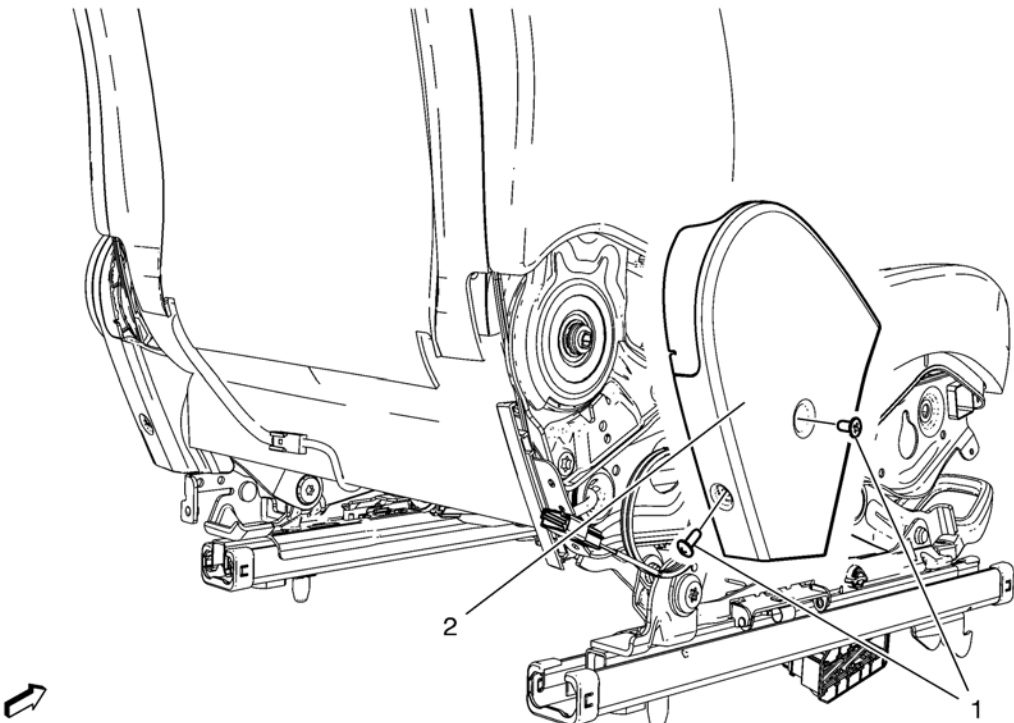
Callout	Component Name
Preliminary Procedure Remove front seat head restraint. Refer to Driver or Passenger Seat Head Restraint Replacement .	
1	Front Seat Head Restraint Guide Procedure Use a flat-bladed tool to release guide for removal.

Front Seat Cushion Outer Trim Panel Replacement



Callout	Component Name
Preliminary Procedure 1. Driver or passenger seat replacement. Refer to Driver or Passenger Seat Replacement 2. Remove front seat adjuster handle, if equipped. Refer to Front Seat Adjuster Replacement 3. Remove the front seat recliner handle. Refer to Driver or Passenger Seat Recliner Handle Replacement	
1	Seat Cushion Outer Trim Panel Screw (Qty: 3) Caution: Refer to Fastener Caution in the Preface section. Tighten 2.5 N·m (22 lb in)
2	Seat Cushion Outer Trim Panel

Front Seat Cushion Inner Trim Panel Replacement



Callout	Component Name
Preliminary Procedure Driver or passenger seat replacement. Refer to Driver or Passenger Seat Replacement .	
1	Seat Cushion Inner Trim Panel Screw (Qty: 2) Caution: Refer to Fastener Caution in the Preface section. Tighten 2.5 N·m (22 lb in)
2	Seat Cushion Inner Trim Panel

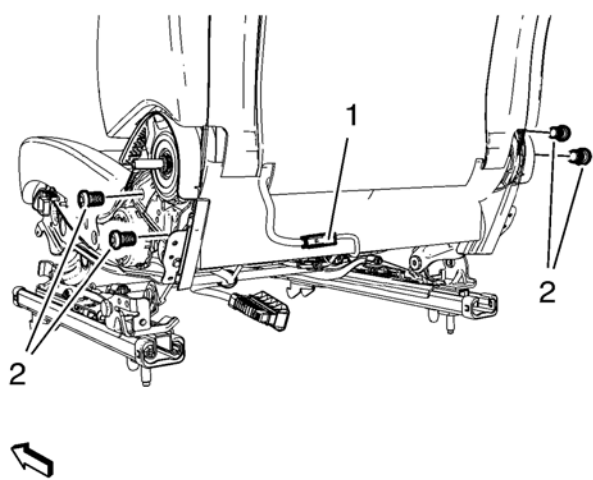
Front Seat Cushion Cover and Pad Replacement

Removal Procedure

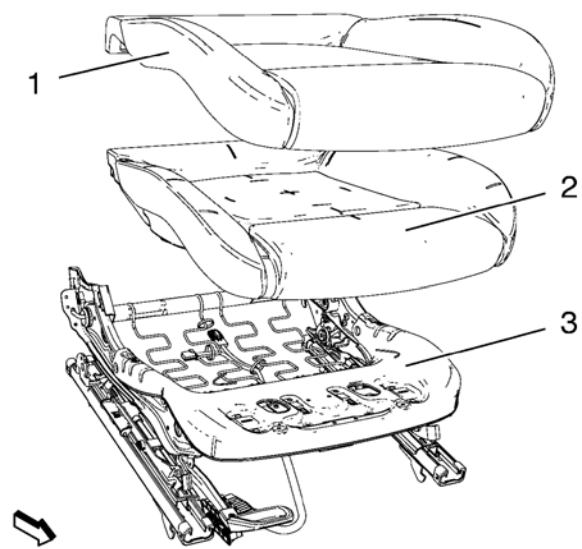
Warning: Refer to [SIR Warning](#) in the Preface section.

Warning: Replace the passenger presence system as a complete assembly to prevent possible injury to the occupant. The bladder, the pressure sensor, the seat cushion, and the control module are assembled and calibrated as a unit. Using only some of the components in the service kit will cause the passenger presence system to operate improperly.

1. Remove driver or passenger seat. Refer to [Driver or Passenger Seat Replacement](#).
2. Remove front seat adjuster handle, if equipped.
3. Remove front seat recliner handle. Refer to [Driver or Passenger Seat Recliner Handle Replacement](#).
4. Remove seat cushion inner trim panel. Refer to [Front Seat Cushion Inner Trim Panel Replacement](#).
5. Remove seat cushion outer trim panel. Refer to [Front Seat Cushion Outer Trim Panel Replacement](#).

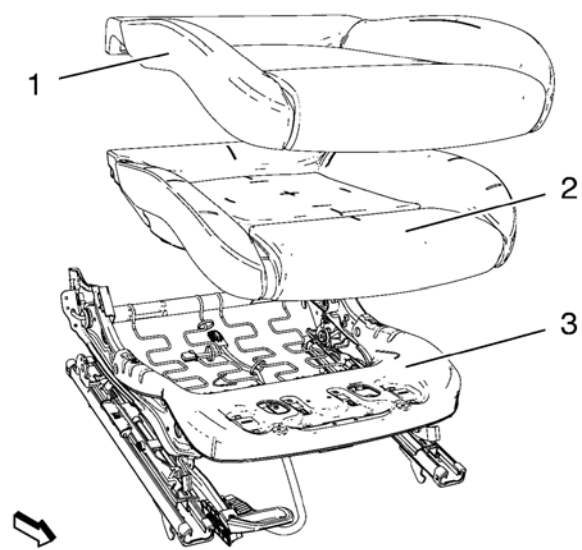


6. Detach cushion cover from backrest below.
7. Release and disconnect wiring harness plug (1), if equipped.
8. Remove front seat backrest screw (2) (Qty: 4).
9. Remove backrest.

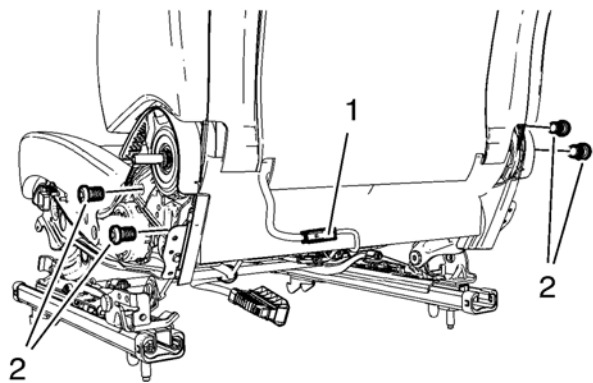


10. Detach cushion cover (1) from seat frame (3) all the way round.
11. Remove cushion cover (1) with pad (2) from frame (3).
12. Remove cushion cover (1) from pad (2).

Installation Procedure



1. Install cushion cover (1) to pad (2).
2. Install cushion cover (1) with pad (2) to frame (3).
3. Attach cushion cover (1) from seat frame (3) all the way round.



4. Install backrest.

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

5. Tighten screw (2) (Qty: 4).

Tighten

35 N·m (26 lb ft)

6. Connect and latch wiring harness plug (1), if equipped.
7. Attach cushion cover to backrest below.
8. Install seat cushion outer trim panel. Refer to [Front Seat Cushion Outer Trim Panel Replacement](#).
9. Install seat cushion inner trim panel. Refer to [Front Seat Cushion Inner Trim Panel Replacement](#).
10. Install front seat recliner handle. Refer to [Driver or Passenger Seat Recliner Handle Replacement](#).
11. Install front seat adjuster handle, if equipped.
12. Install driver or passenger seat. Refer to [Driver or Passenger Seat Replacement](#).

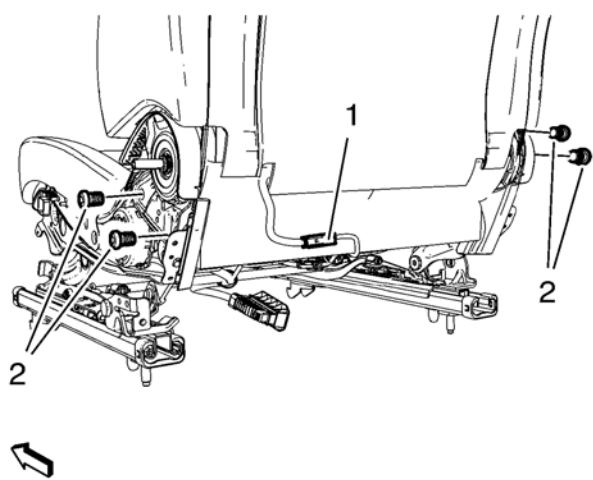
Driver or Passenger Seat Back Cushion Cover and Pad Replacement

Removal Procedure

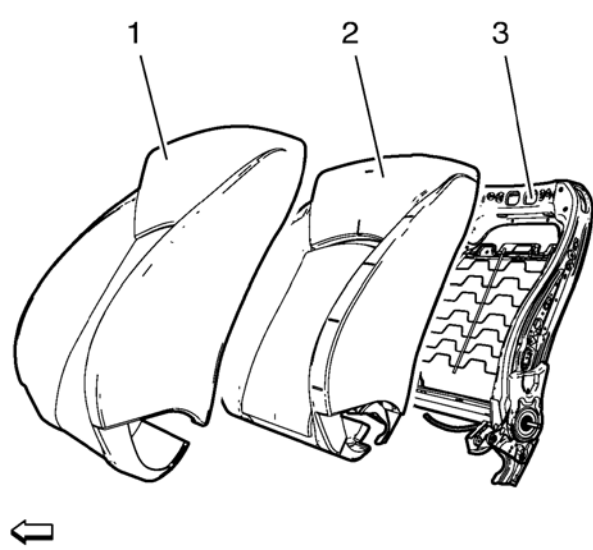
Warning: Refer to [SIR Warning](#) in the Preface section.

Warning: Replace the passenger presence system as a complete assembly to prevent possible injury to the occupant. The bladder, the pressure sensor, the seat cushion, and the control module are assembled and calibrated as a unit. Using only some of the components in the service kit will cause the passenger presence system to operate improperly.

1. Remove driver or passenger seat. Refer to [Driver or Passenger Seat Replacement](#).
2. Remove front seat adjuster handle, if equipped.
3. Remove front seat recliner handle. Refer to [Driver or Passenger Seat Recliner Handle Replacement](#).
4. Remove seat cushion inner trim panel. Refer to [Front Seat Cushion Inner Trim Panel Replacement](#).
5. Remove seat cushion outer trim panel. Refer to [Front Seat Cushion Outer Trim Panel Replacement](#).
6. Remove front seat head restraint guide. Refer to [Front Seat Head Restraint Guide Replacement](#).

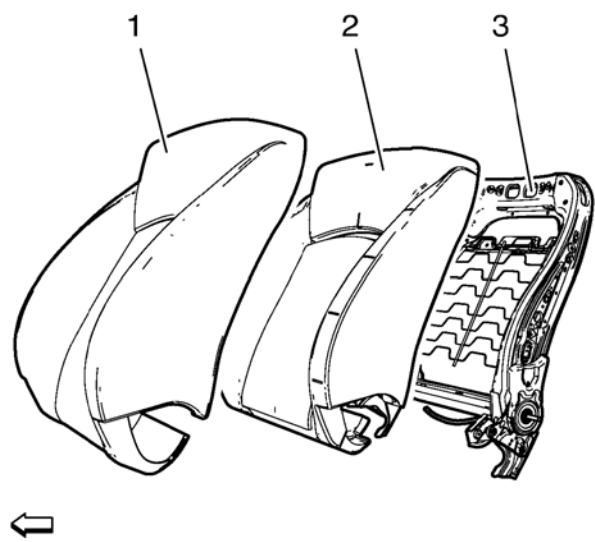


7. Detach cushion cover from backrest below.
8. Release and disconnect wiring harness plug (1), if equipped.
9. Remove 4 front seat backrest screw (2).
10. Remove backrest.

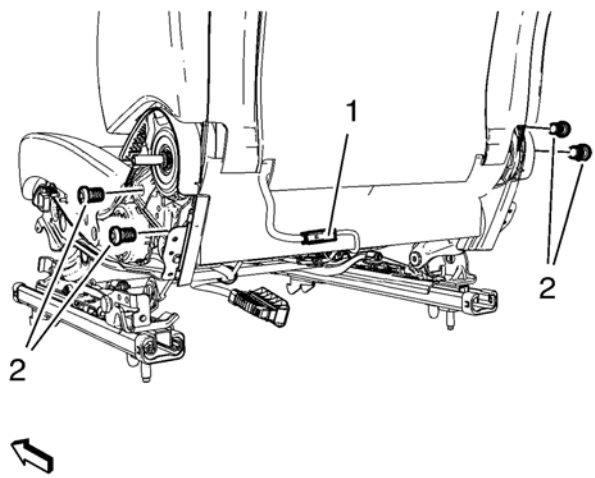


11. Remove cushion cover (1) on backside.
 - Open 2 zippers on backside.
 - Loosen cushion covering all the way around.
12. Remove front seat back cushion cover (1).
 - Detach cushion cover from frame (3).
 - Remove cushion cover (1) from Velcro.
13. Remove front seat back cushion pad (2).

Installation Procedure



1. Install front seat back cushion pad (2).
2. Install front seat back cushion cover (1).
 - Install cushion cover (1) to Velcro.
 - Attach cushion cover to frame (3).
3. Install cushion cover (1) to backside.
 - Install cushion covering all the way around.
 - Close 2 zippers on backside.

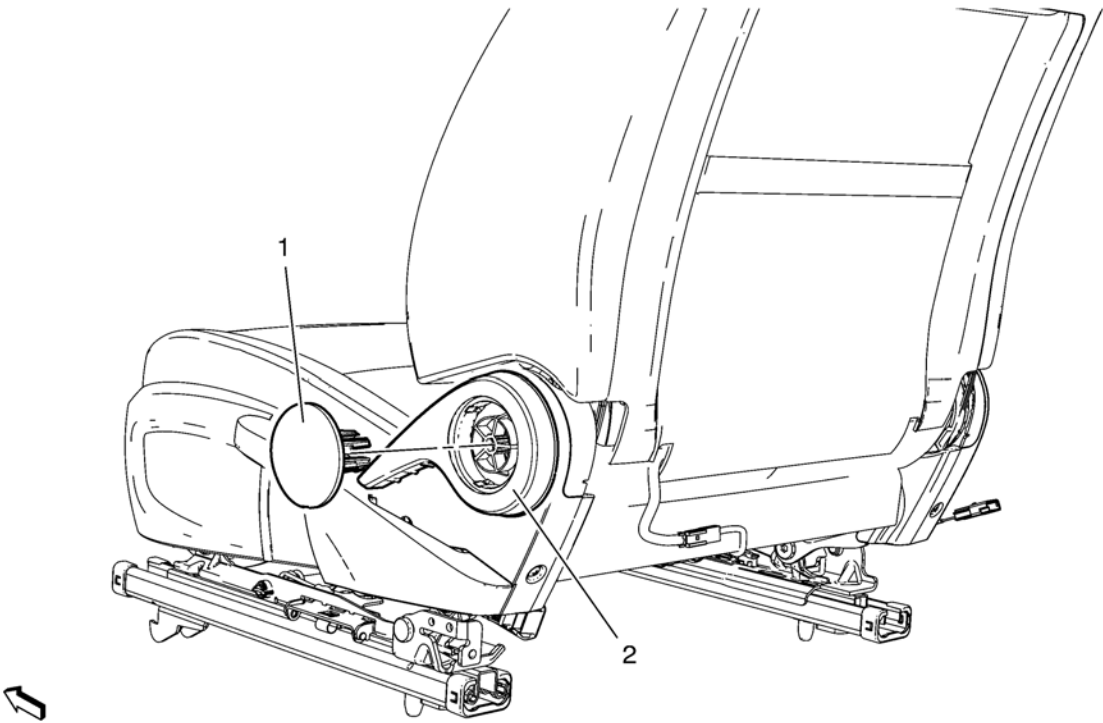


4. Install backrest.

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

5. Install the front seat backrest bolts (2) and tighten to **35 N·m (26 lb ft)**.
6. Connect and latch wiring harness plug (1), if equipped.
7. Attach cushion cover to backrest below.
8. Install front seat head restraint guide. Refer to [Front Seat Head Restraint Guide Replacement](#).
9. Install seat cushion outer trim panel. Refer to [Front Seat Cushion Outer Trim Panel Replacement](#).
10. Install seat cushion inner trim panel. Refer to [Front Seat Cushion Inner Trim Panel Replacement](#).
11. Install front seat recliner handle. Refer to [Driver or Passenger Seat Recliner Handle Replacement](#).
12. Install front seat adjuster handle, if equipped.
13. Install driver or passenger seat. Refer to [Driver or Passenger Seat Replacement](#).

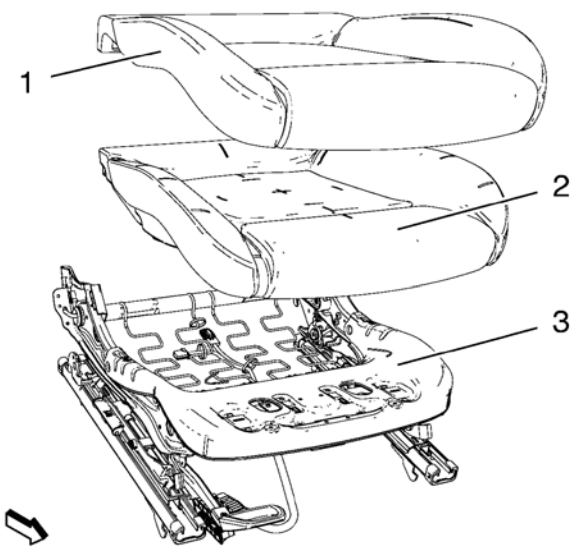
Driver or Passenger Seat Recliner Handle Replacement



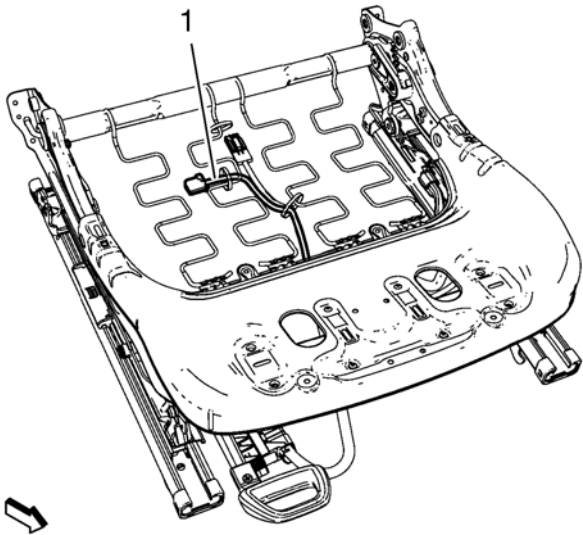
Callout	Component Name
1	Recliner Handle Panel Seat Backrest Procedure Use flat blade to removel panel.
2	Recliner Handle Seat Backrest Procedure Use flat blade to remove handle.

Driver Seat Frame Replacement

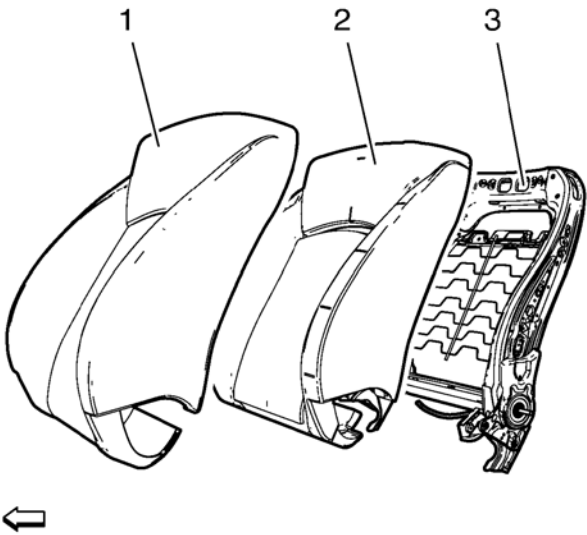
Removal Procedure



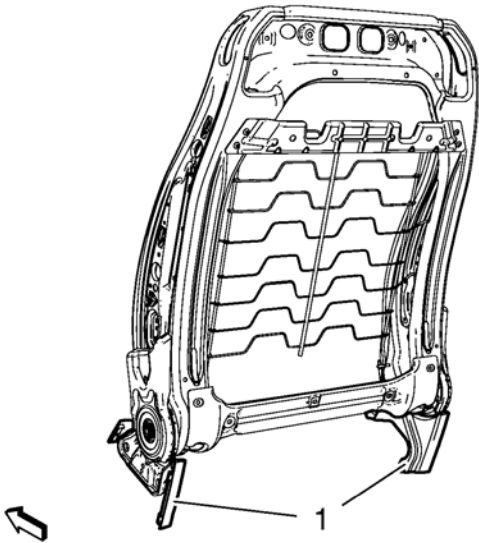
1. Remove front seat cushion cover (1) and pad (2) from frame (3). Refer to [Front Seat Cushion Cover and Pad Replacement](#)



2. Remove the wire harness (1), if equipped.

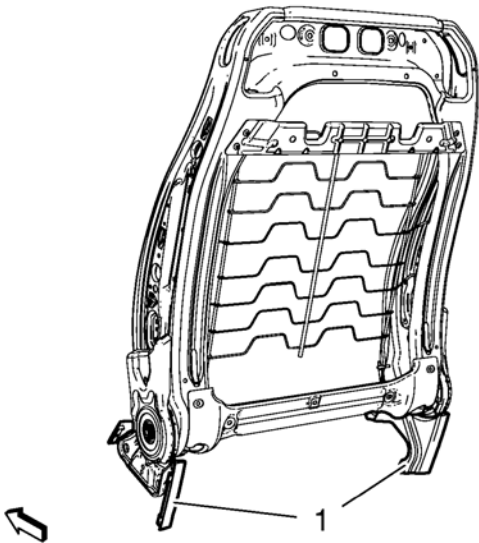


3. Remove front seat back cushion cover (1) and pad (2) from frame (3). Refer to [Driver or Passenger Seat Back Cushion Cover and Pad Replacement](#)

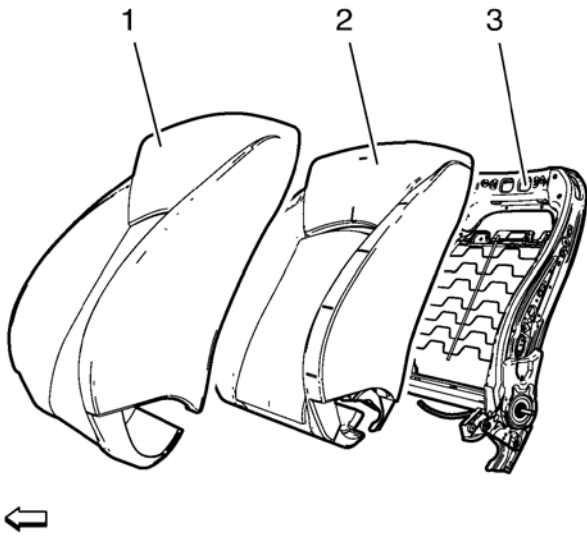


- 4. Remove inner seat frame cover (1).
- 5. Remove the wire harness, if equipped.

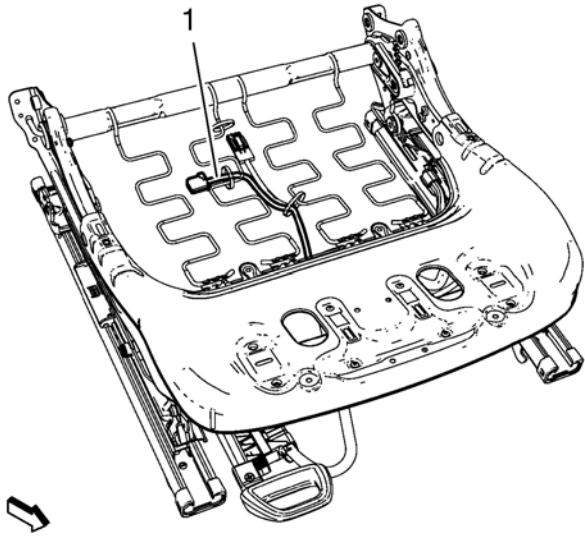
Installation Procedure



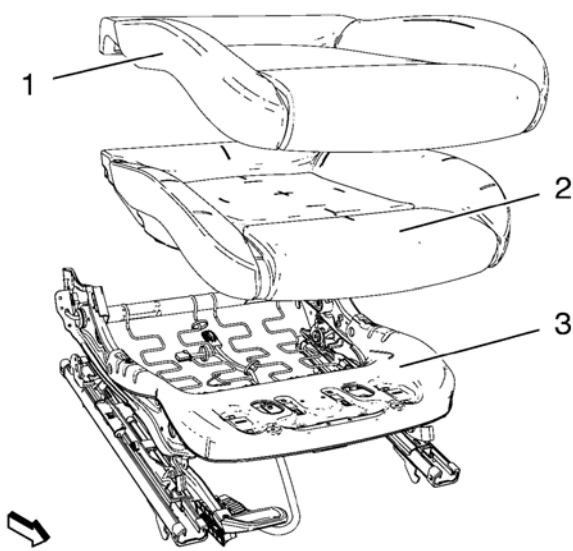
- 1. Install the wire harness, if equipped.
- 2. Install inner seat frame cover (1).



- 3. Install front seat back cushion cover (1) and pad (2) to frame (3). Refer to [Driver or Passenger Seat Back Cushion Cover and Pad Replacement](#)



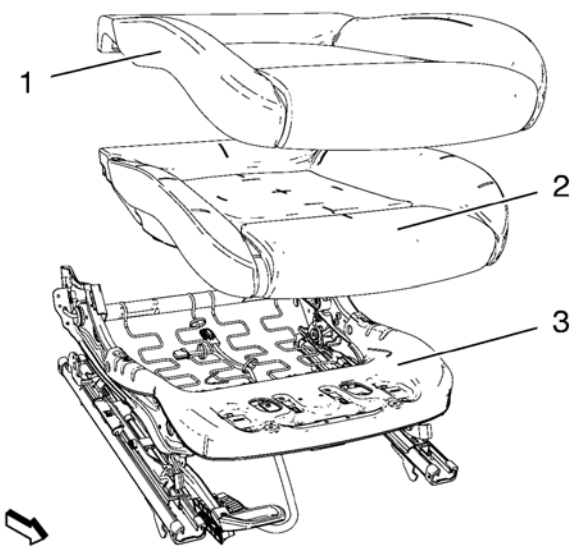
4. Install the wire harness (1), if equipped.



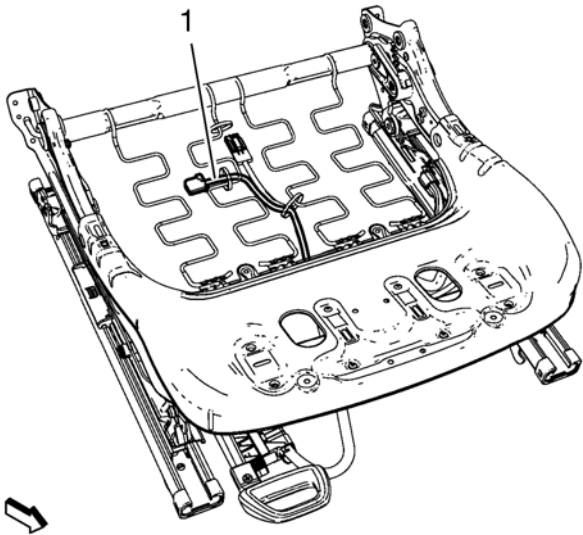
5. Install front seat cushion cover (1) and pad (2) to frame (3). Refer to [Front Seat Cushion Cover and Pad Replacement](#)

Passenger Seat Frame Replacement

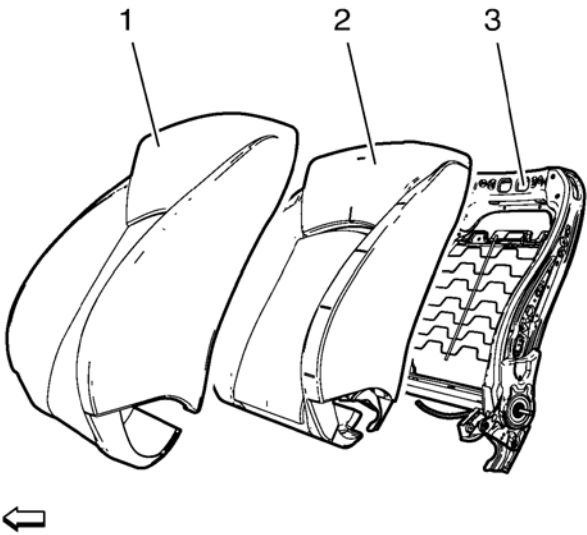
Removal Procedure



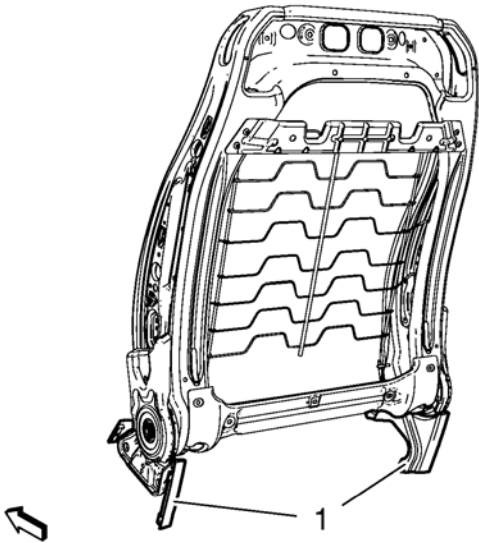
1. Remove front seat cushion cover (1) and pad (2) from frame (3). Refer to [Front Seat Cushion Cover and Pad Replacement](#)



2. Remove the wire harness (1), if equipped.

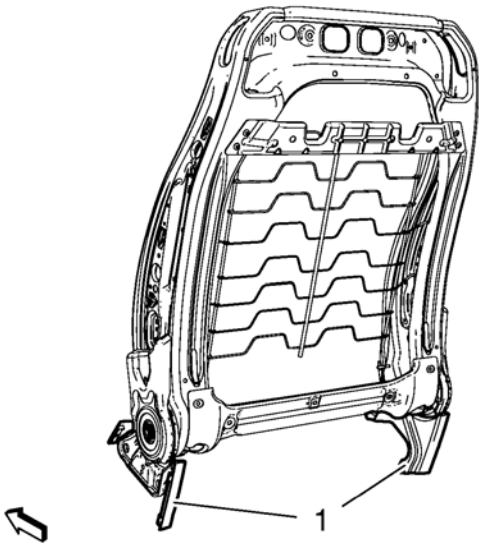


3. Remove front seat back cushion cover (1) and pad (2) from frame (3). Refer to [Driver or Passenger Seat Back Cushion Cover and Pad Replacement](#)

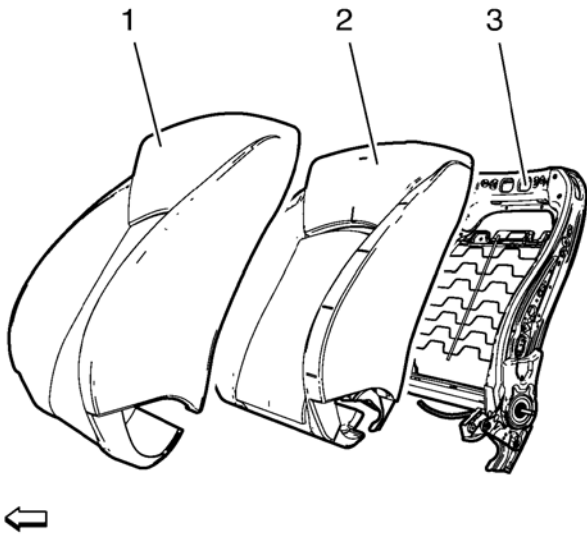


- 4. Remove inner seat frame cover (1).
- 5. Remove the wire harness, if equipped.

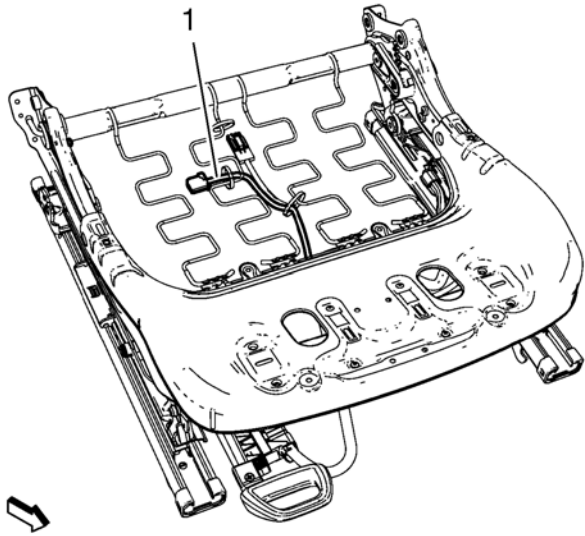
Installation Procedure



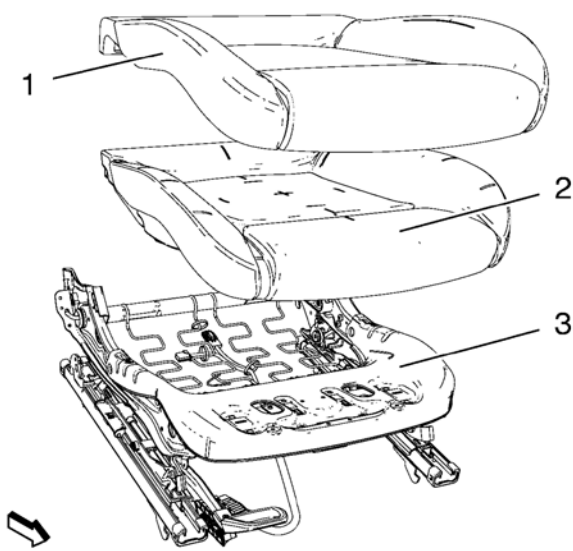
- 1. Install the wire harness, if equipped.
- 2. Install inner seat frame cover (1).



- 3. Install front seat back cushion cover (1) and pad (2) to frame (3). Refer to [Driver or Passenger Seat Back Cushion Cover and Pad Replacement](#)

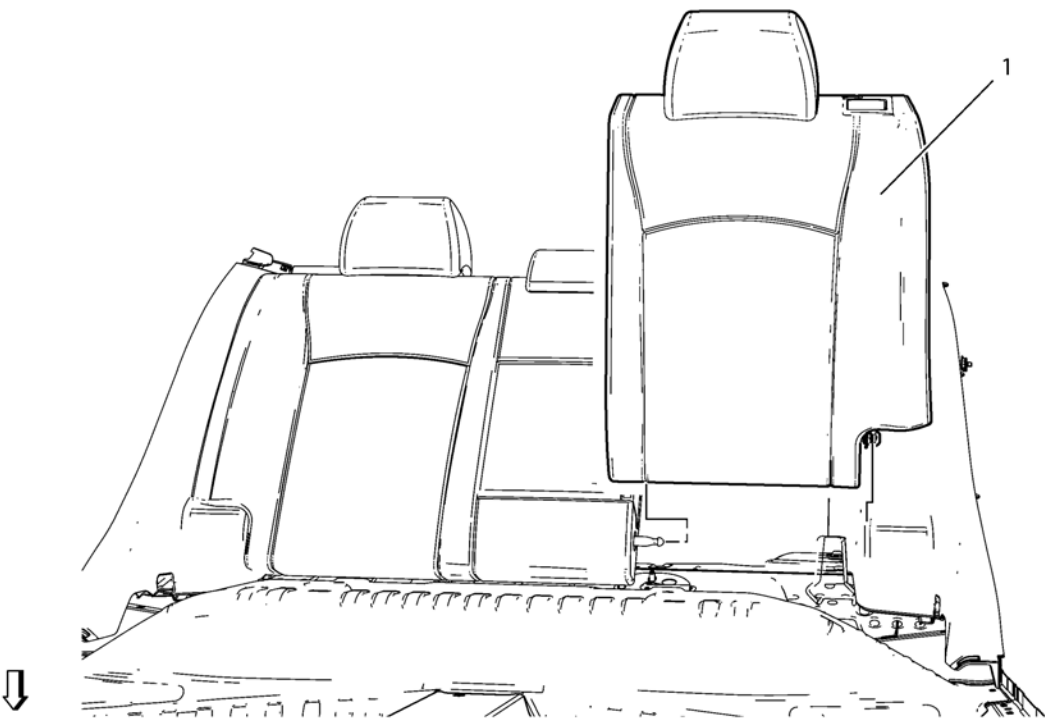


4. Install the wire harness (1), if equipped.



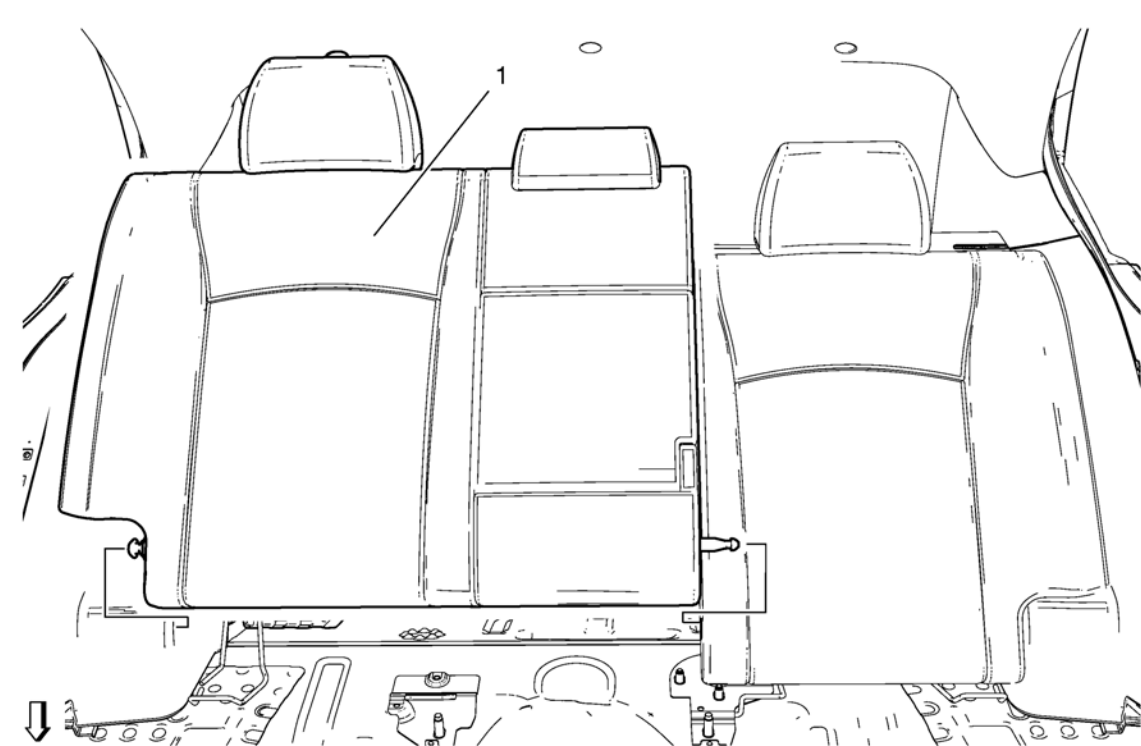
5. Install front seat cushion cover (1) and pad (2) to frame (3). Refer to [Front Seat Cushion Cover and Pad Replacement](#)

Rear Seat Replacement (40 Percent Seat)



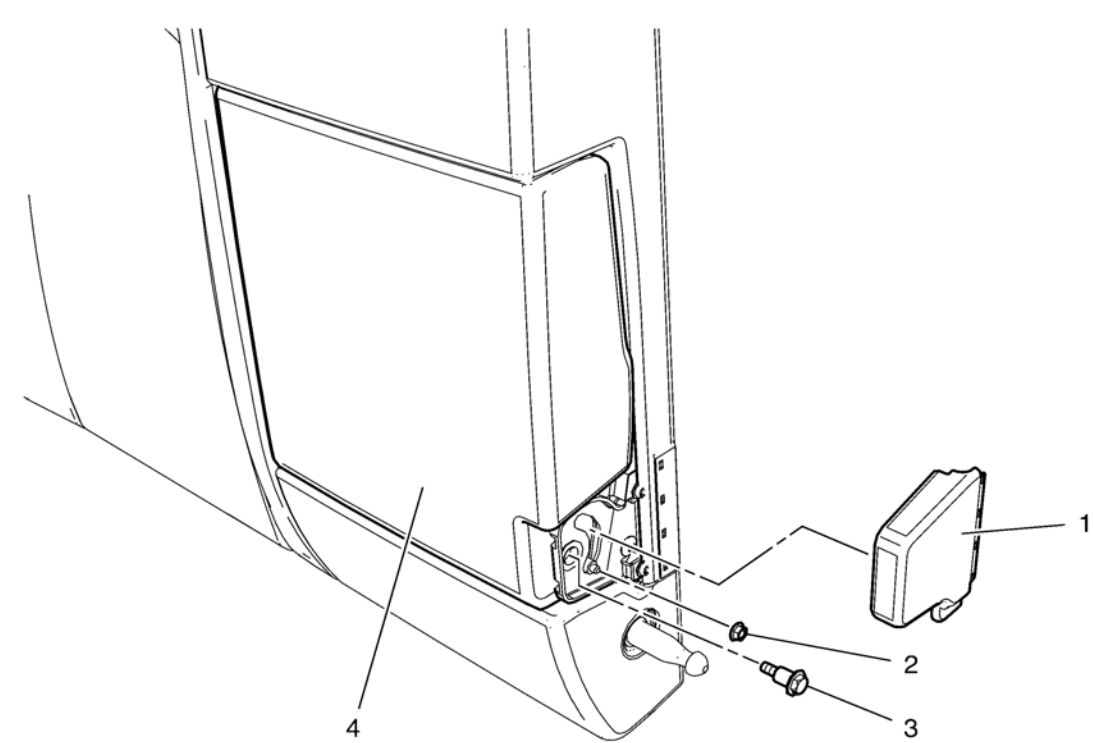
Callout	Component Name
Preliminary Procedure Rear seat cushion. Refer to Rear Seat Cushion Replacement	
1	Rear Seat Back - Left Side Procedure 1. Fold down rear seat backrest. 2. Remove rear seat backrest from booth side guide.

Rear Seat Replacement (60 Percent Seat)



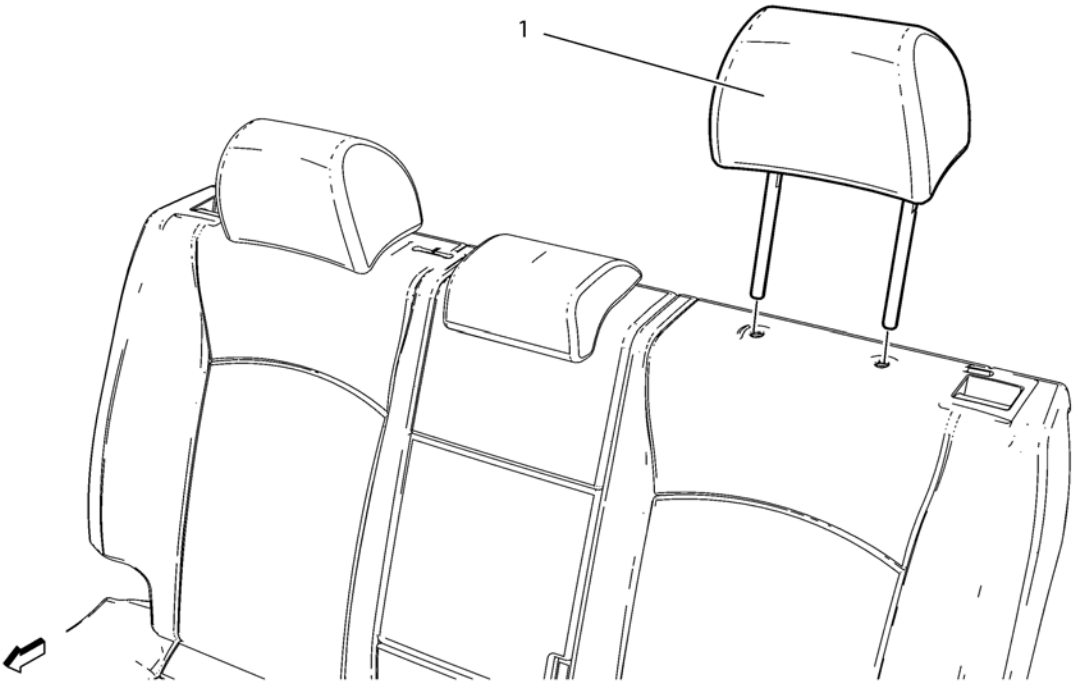
Callout	Component Name
Preliminary Procedure Remove rear seat belt buckle. Refer to Rear Seat Belt Buckle Replacement .	
1	Rear Seat Back - Right Side Procedure 1. Fold down rear seat backrest. 2. Remove rear seat backrest from booth side guide.

Rear Seat Armrest Replacement



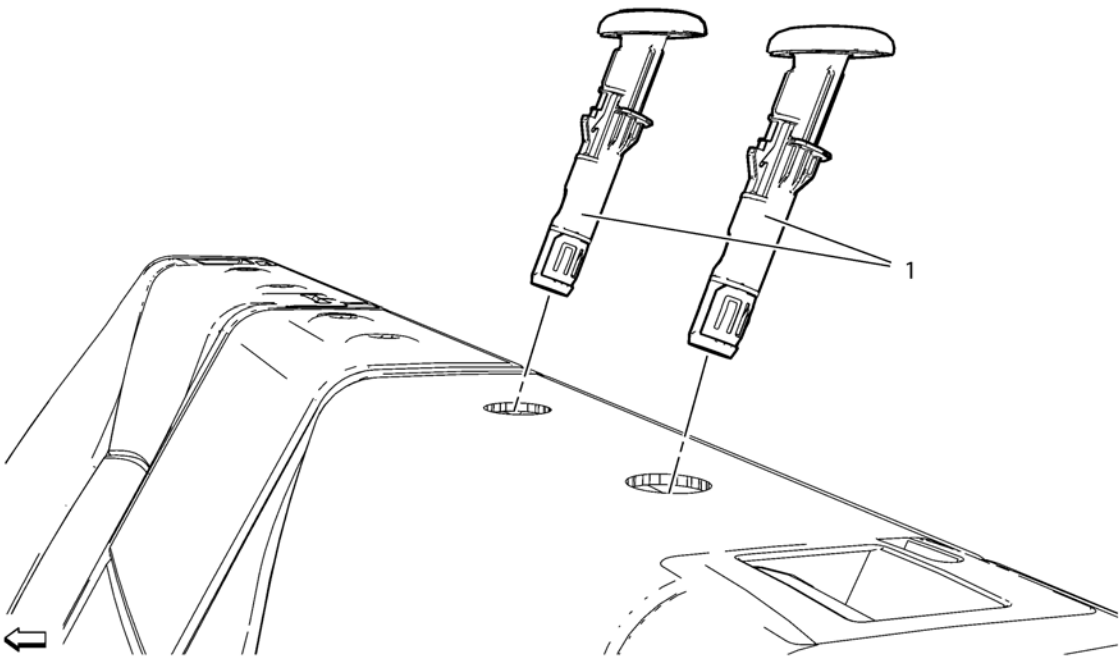
Callout	Component Name
Preliminary Procedure Remove rear seat back - right side. Refer to Rear Seat Replacement	
1	Armrest Hinge Cover
2	Armrest Hinge Nut Caution: Refer to Fastener Caution in the Preface section. Tighten 4.5 N·m (40 lb in)
3	Armrest Hinge Bolt Tighten 9 N·m (80 lb in)
4	Armrest

Rear Seat Head Restraint Replacement



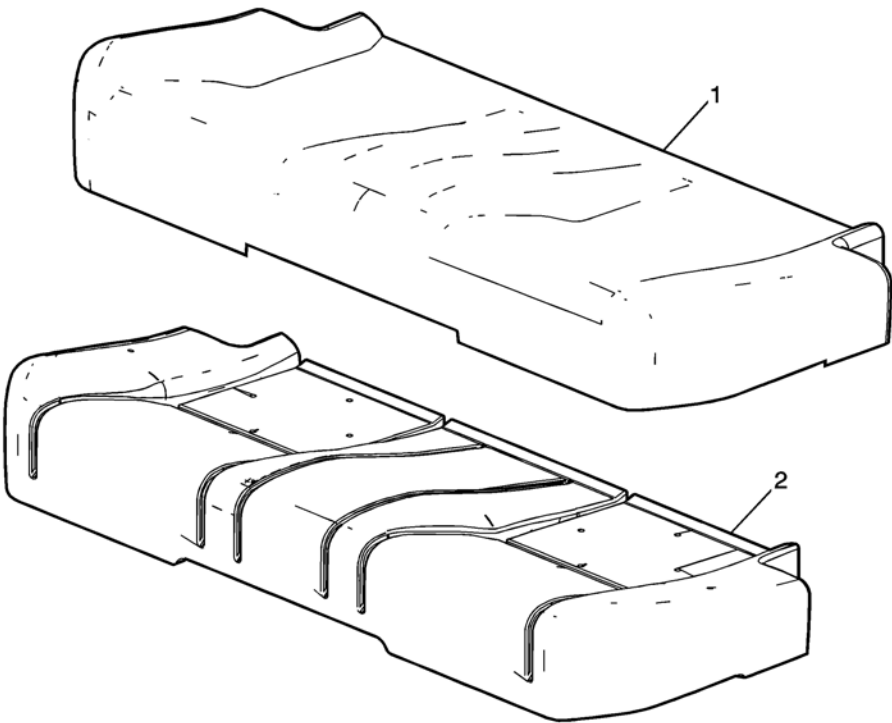
Callout	Component Name
1	Rear Seat Head Restraint Procedure Push the head restraint guide button and remove the head restraint.

Rear Seat Head Restraint Guide Replacement



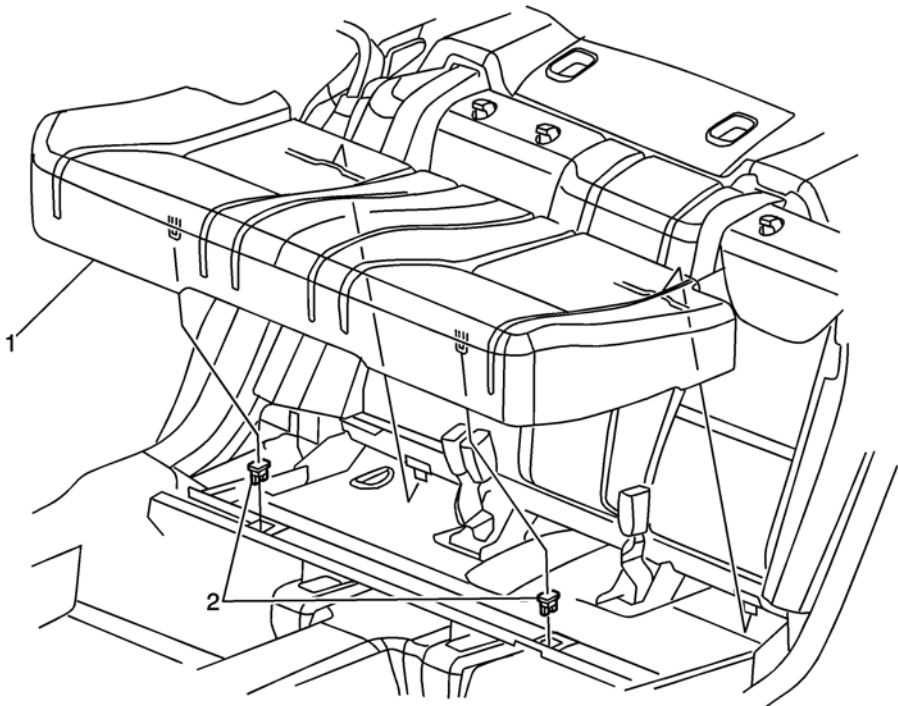
Callout	Component Name
Preliminary Procedure Remove rear seat head restraint. Refer to Rear Seat Head Restraint Replacement .	
1	Rear Seat Head Restraint Guide Replacement Procedure Unclip the rear seat head restraint guide with a suitable device (Qty: 2)

Rear Seat Cushion Cover and Pad Replacement



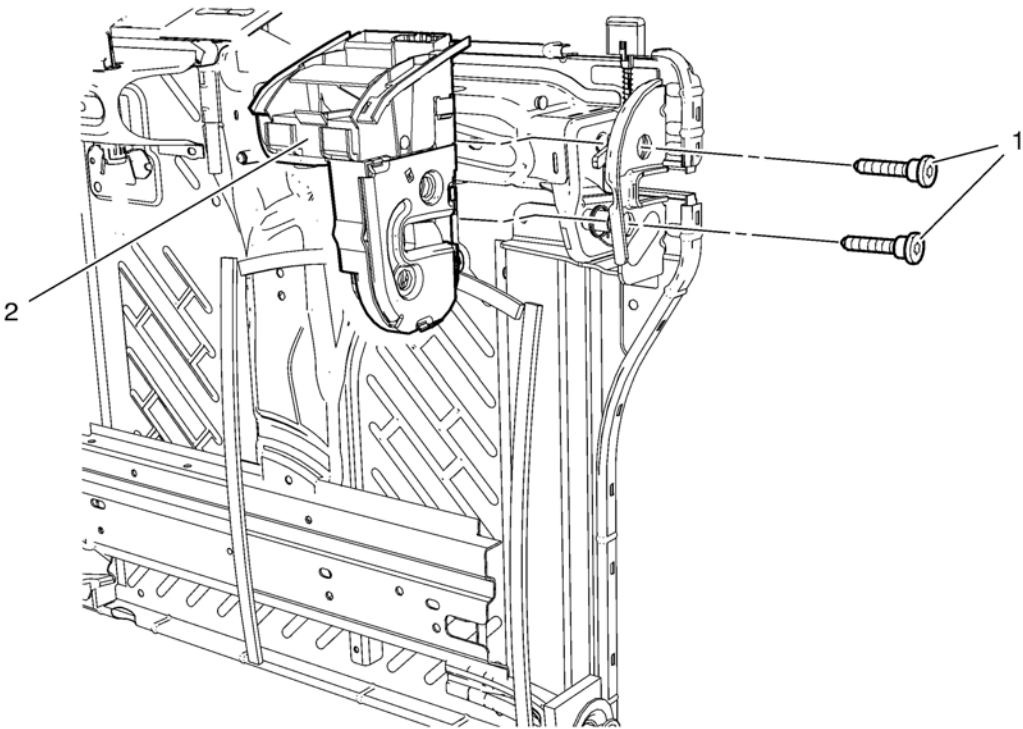
Callout	Component Name
Preliminary Procedure Remove the rear seat cushion. Refer to Rear Seat Cushion Replacement .	
1	Rear Seat Cushion Cover Procedure 1. Remove the hog rings that secure the rear seat cushion cover to the pad. 2. Remove seat cushion cover from Velcro.
2	Rear Seat Cushion Pad

Rear Seat Cushion Replacement



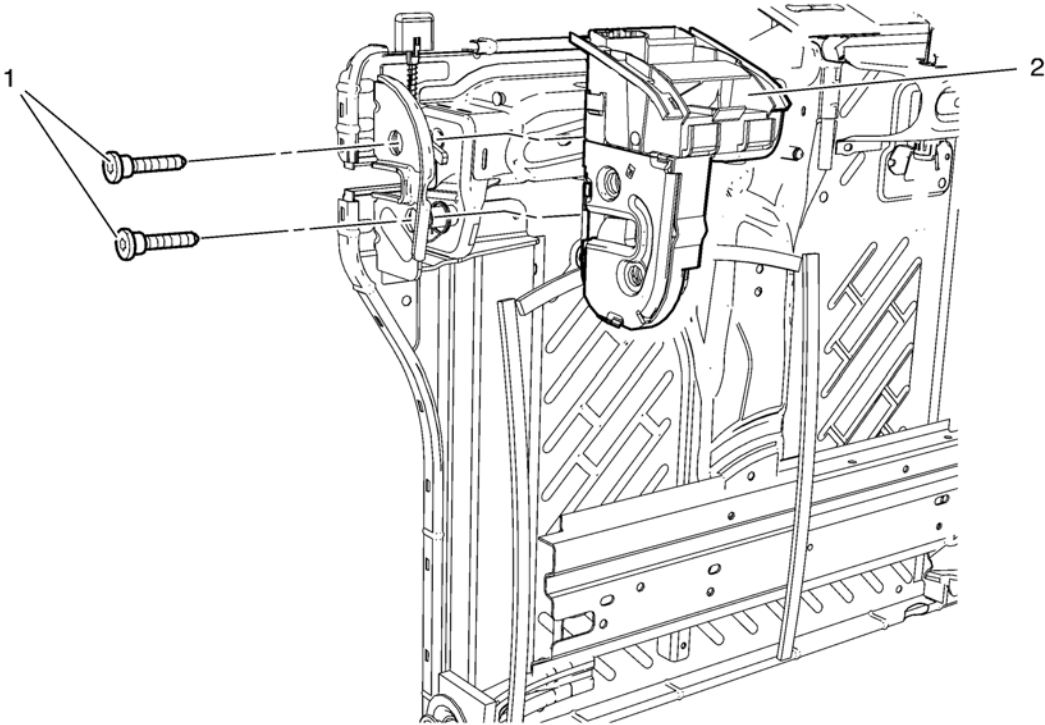
Callout	Component Name
1	Rear Seat Cushion Procedure Pull up on the front of the seat cushion to disengage the retainers, and lift out of the vehicle.
2	Seat Cushion Retainer (Qty: 2)

Rear Seat Back Latch Replacement (40 Percent Seat)



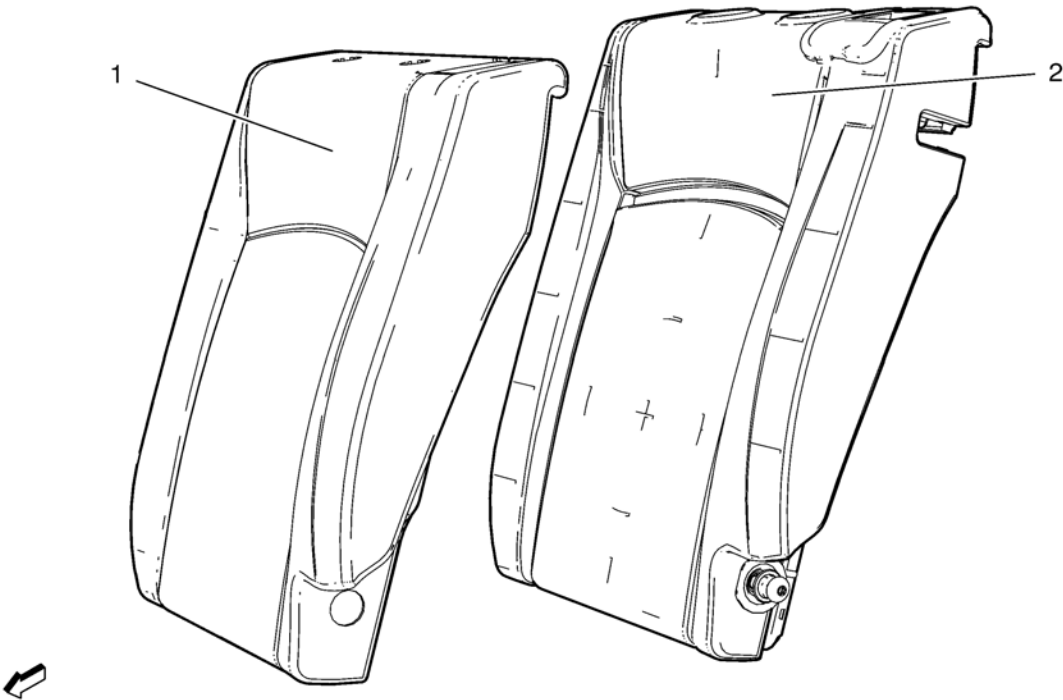
Callout	Component Name
Preliminary Procedure 1. Remove rear seat - left side. Refer to Rear Seat Replacement. 2. Remove rear seat back cushion cover and pad - left side. Refer to Rear Seat Back Cushion Cover and Pad Replacement - Left Side	
1	Rear Seat Back Latch Bolt (Qty: 2) Caution: Refer to Fastener Caution in the Preface section. Tighten 45 N·m (33 lb ft)
2	Rear Seat Back Latch

Rear Seat Back Latch Replacement (60 Percent Seat)



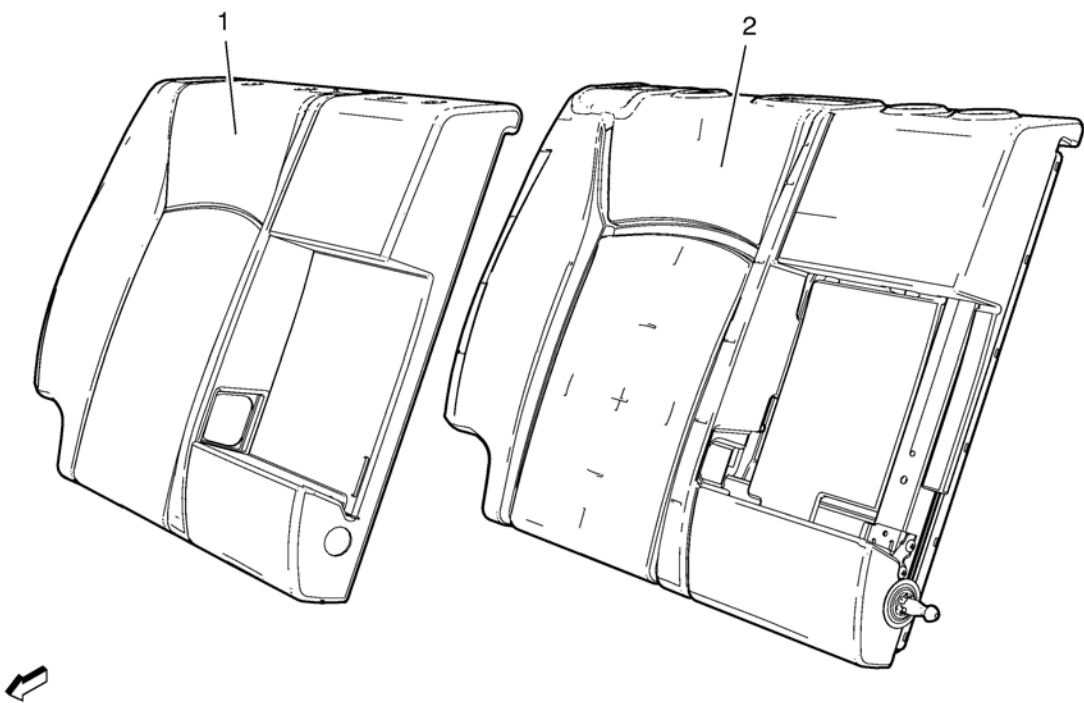
Callout	Component Name
Preliminary Procedure 1. Remove rear seat - right side. Refer to Rear Seat Replacement. 2. Remove rear seat armrest. Refer to Rear Seat Armrest Replacement 3. Remove rear seat back cushion cover and pad - right side. Refer to Rear Seat Back Cushion Cover and Pad Replacement - Right Side	
1	Rear Seat Back Latch Bolt (Qty: 2) Caution: Refer to Fastener Caution in the Preface section. Tighten 45 N·m (33 lb ft)
2	Rear Seat Back Latch

Rear Seat Back Cushion Cover and Pad Replacement - Left Side



Callout	Component Name
Preliminary Procedure Remove rear seat - left side. Refer to Rear Seat Replacement .	
1	Rear Seat Back Cushion Cover Procedure 1. Remove the staples from the seat back cover. 2. Remove seat back cushion cover from Velcro.
2	Rear Seat Back Cushion Pad

Rear Seat Back Cushion Cover and Pad Replacement - Right Side

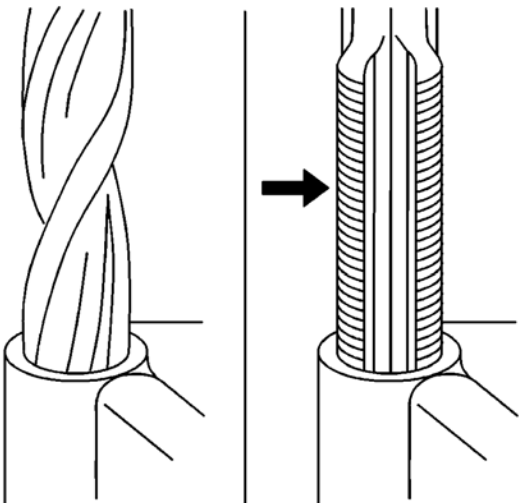


Callout	Component Name
Preliminary Procedure 1. Remove rear seat back - right side. Refer to Rear Seat Replacement . 2. Remove rear seat armrest. Refer to Rear Seat Armrest Replacement .	
1	Rear Seat Back Cushion Cover Procedure 1. Remove the staples from the seat back cover. 2. Remove seat back cushion cover from Velcro.
2	Rear Seat Back Cushion Pad

Thread Repair

General purpose thread repair kits are available commercially.

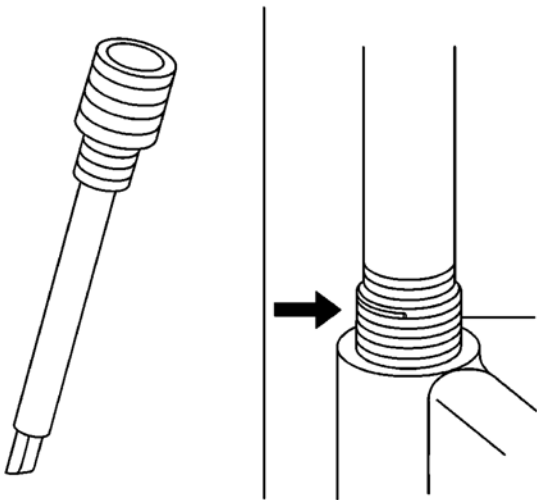
Warning: Refer to [Safety Glasses Warning](#) in the Preface section.



Note: Refer to the thread repair kit manufacturer's instructions regarding the size of the drill and which tap to use.

Always avoid any buildup of chips. Back out the tap every few turns and remove the chips.

1. Determine the size, the pitch, and the depth of the damaged thread.
2. Adjust the stop collars on the cutting tool as needed. Tap the stop collars to the required depth.
3. Drill out the damaged thread.
4. Remove the chips.
5. Apply clean engine oil to the top thread.
6. Use the tap in order to cut new thread.
7. Clean the thread.



8. Screw the thread insert onto the mandrel of the thread insert installer. Engage the tang of the thread insert onto the end of the mandrel.

Note: The thread insert should be flush to 1 turn below the surface.

9. Lubricate the thread insert with clean engine oil - except when installing in aluminum - and install the thread insert.
10. If the tang of the thread insert does not break off when backing out the thread insert installer, break off the tang using a drift punch.

Special Tools

Illustration	Tool Number / Description
	BO-569-A KM-569-A Plug Lifter
	DT-6459-B MKM-J-6459-B Torque Wrench
	GE-604-D MKM-604-D Torx Bit and Socket Set

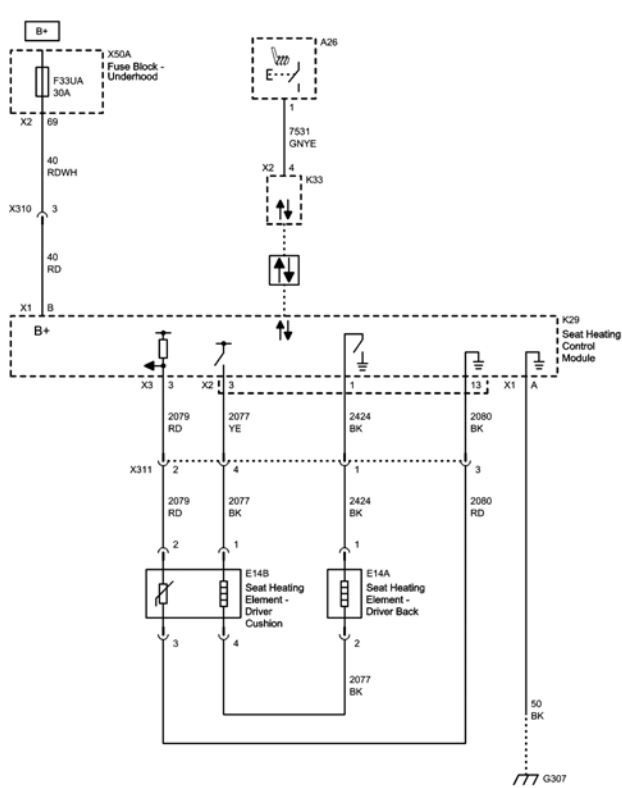
Select a Document:

-  [Specifications](#)
-  [Heated/Cooled Seat Schematics](#)
-  [Front Seat Heater Control Module Replacement](#)
-  [Driver or Passenger Seat Back Cushion Heater Replacement](#)
-  [Driver Seat Cushion Heater Replacement](#)
-  [Passenger Seat Cushion Heater Replacement](#)
-  [Heated Seats Description and Operation](#)
-  [Special Tools and Equipment](#)

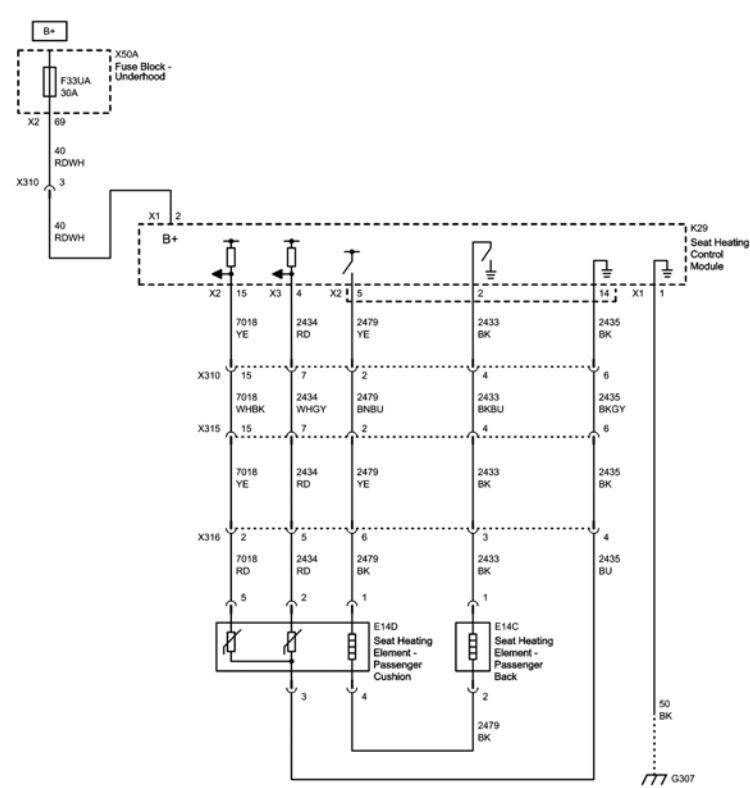
Fastener Tightening Specifications

Application	Specification	
	Metric	English
Front Seat Heater Control Module	2.5 N·m	22 lb in

Heated / Cooled Seat - Driver



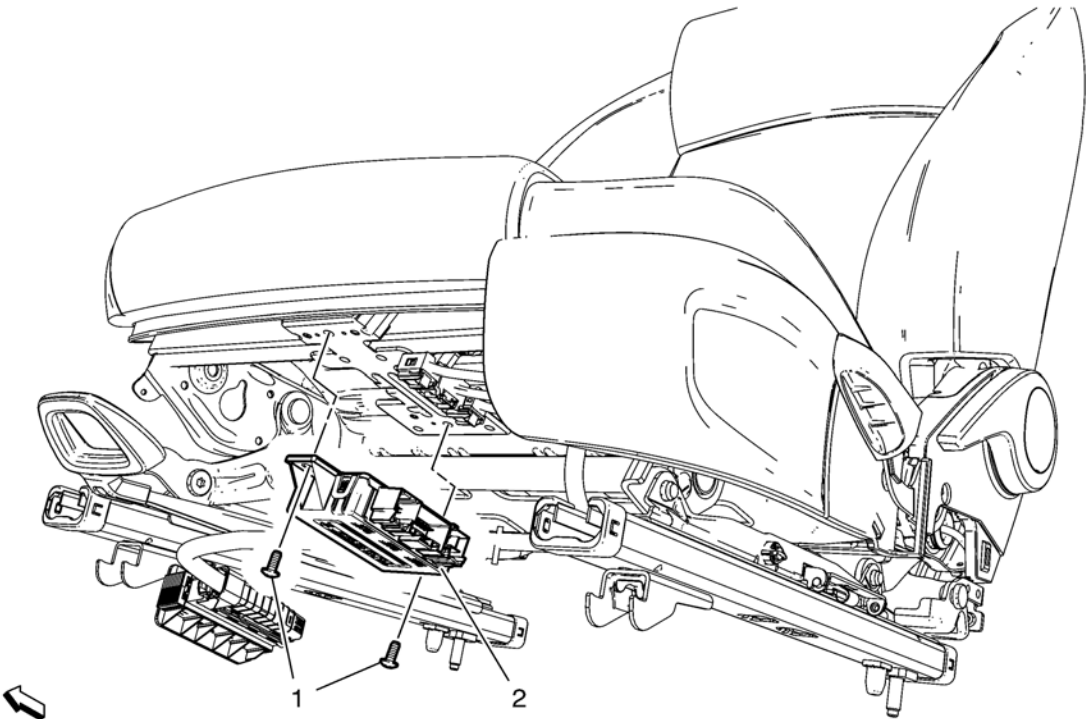
Heated / Cooled Seat - Passenger



LOC

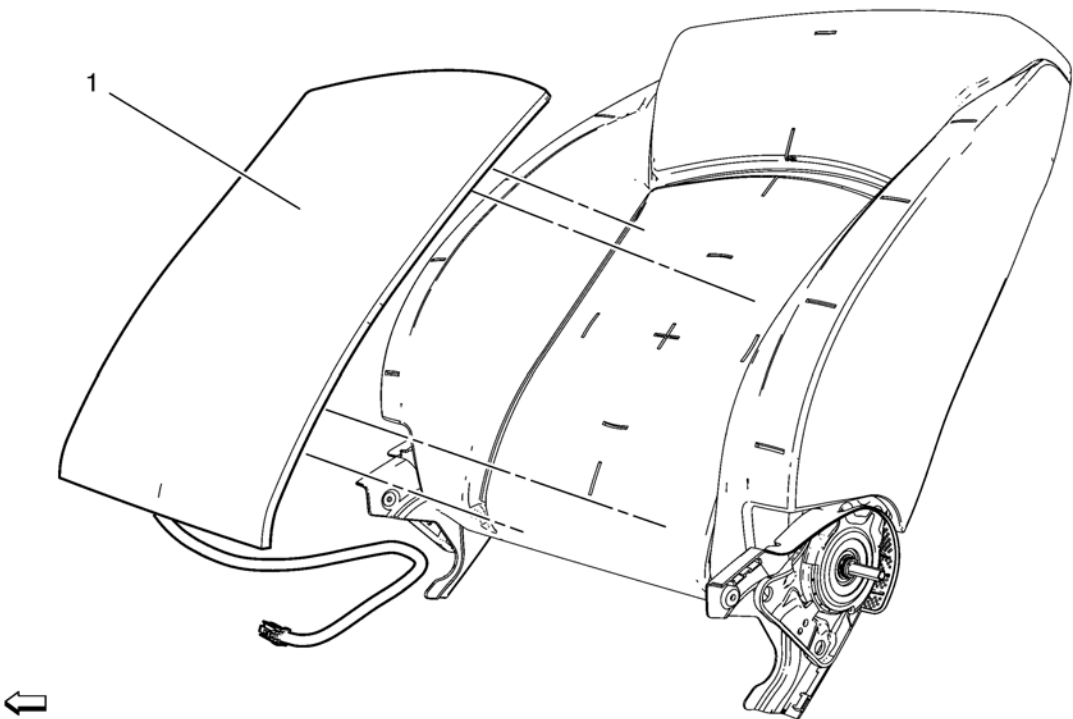


Front Seat Heater Control Module Replacement



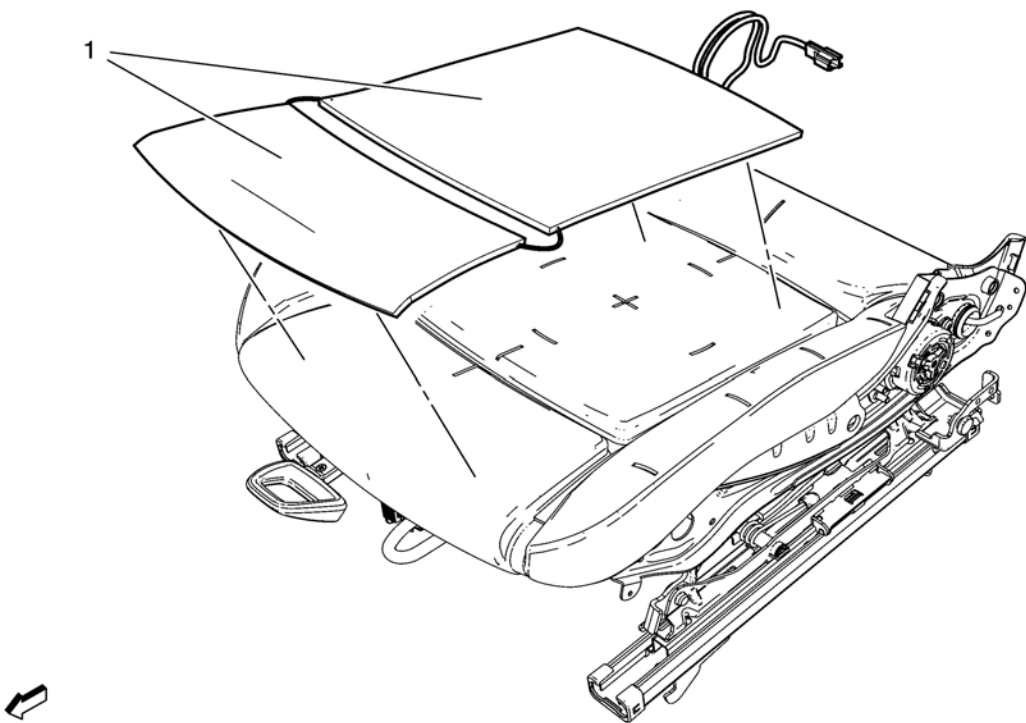
Callout	Component Name
Preliminary Procedure Driver or passenger seat replacement. Refer to Driver or Passenger Seat Replacement .	
1	Front Seat Heater Control Module Bolt (Qty: 2) Caution: Refer to Fastener Caution in the Preface section. Tighten 2.5 N·m (23 lb in)
2	Front Seat Heater Control Module Procedure Disconnect the electrical connector.

Driver or Passenger Seat Back Cushion Heater Replacement



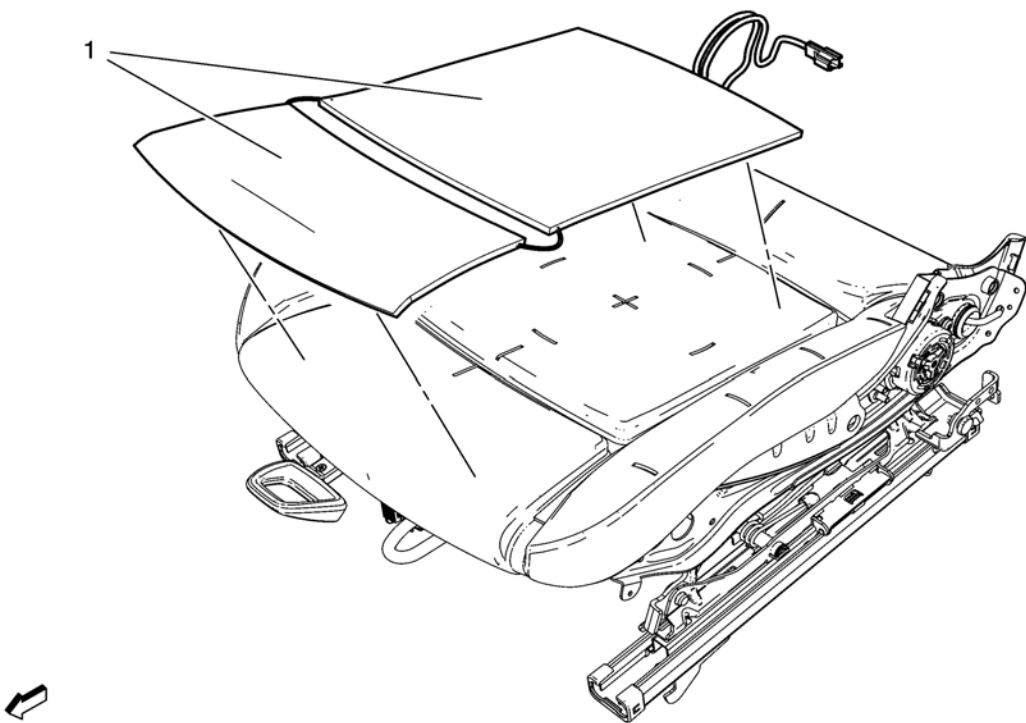
Callout	Component Name
Preliminary Procedure Front seat back cushion cover and cushion pad replacement. Refer to Front Seat Back Cushion Cover and Cushion Pad Replacement .	
1	Front Seat Back Heater

Driver Seat Cushion Heater Replacement



Callout	Component Name
Preliminary Procedure Front seat cushion cover and pad replacement. Refer to Front Seat Cushion Cover and Pad Replacement .	
1	Front Seat Heater

Passenger Seat Cushion Heater Replacement



Callout	Component Name
Preliminary Procedure Front seat cushion cover and pad replacement. Refer to Front Seat Cushion Cover and Pad Replacement .	
1	Front Seat Heater

Heated Seats Description and Operation

Heated Seat Components

The driver and passenger heated seats consist of the following components:

- Left heated seat switch
- Right heated seat switch
- HVAC control
- Seat heating control module
- Driver seat cushion heating element
- Driver seat back heating element
- Driver seat cushion temperature sensor
- Passenger seat cushion heating element
- Passenger seat back heating element
- Passenger seat cushion temperature sensor

Power and Ground

Battery positive voltage is supplied at all times to the seat heating control module through a 30 A fuse located in the underhood fuse block. This voltage is used by the module to supply power to the seat heating elements. Ground for the module is provided at G307.

Heated Seat Operation

The driver and passenger heated seats are controlled by a single seat heating control module that is located under the driver seat cushion. Both heated seats are controlled by separate heated seat switches that are located in the HVAC control. When a heated seat switch is pressed, a serial data message is sent from the HVAC control to the HVAC control module indicating the heated seat command. The HVAC control module then serves as a gateway to transmit the message to the seat heating control module via the serial data line. In response to this signal, the seat heating control module applies battery positive voltage through the element supply voltage circuit to the appropriate seat heating elements. The seat heating control module then sends a serial data message back to the HVAC control module to gateway the information to the HVAC control to either illuminate or turn off the appropriate temperature indicator.

Temperature Regulation

When the engine ON, the heated seats will initialize in the OFF state. With each activation of the heated seat switch, the seat heating control module will cycle the temperature setting in the following manner: HIGH, MEDIUM, LOW, and OFF.

The seat heating control module monitors the seat temperature through the temperature sensor signal circuit and the temperature sensor (thermistor) that is located in the seat cushion. The temperature sensor is a variable resistor, it's resistance changes as the temperature of the seat changes. When the temperature sensor resistance indicates to the seat heating control module that the seat has reached the desired temperature, the module opens the ground path of the seat heating elements through the heated seat element control circuit. The module will then cycle the element control circuit open and closed in order to maintain the desired temperature.

Load Management

The electrical power management function is designed to monitor the vehicle electrical load and determine when the battery is potentially in a high discharge condition. The heated seat system is one of the vehicle loads that is subject to reduction during a battery discharge condition. For more information on load management refer to [Electrical Power Management Description and Operation](#).

Special Tools

Illustration	Tool Number / Description
	BO-569-A KM-569-A Plug Lifter
	DT-6459-B MKM-J-6459-B Torque Wrench
	GE-604-D MKM-604-D Torx Bit and Socket Set