

2013 Chevrolet Cruze

2013 ACCESSORIES & EQUIPMENT Seat Hardware, Trim, and Upholstery - Cruze

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Seat Hardware, Trim, and Upholstery - Cruze

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

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

REPAIR INSTRUCTIONS

DRIVER OR PASSENGER SEAT REMOVAL AND INSTALLATION

Removal Procedure

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.

WARNING: Refer to SIR Warning .

1. Disable the supplemental inflatable restraint (SIR) system. Refer to **SIR Disabling and Enabling** .
2. Disconnect the seat belt from the seat belt tensioner. Refer to **Front Seat Belt Anchor Plate Tensioner Replacement**

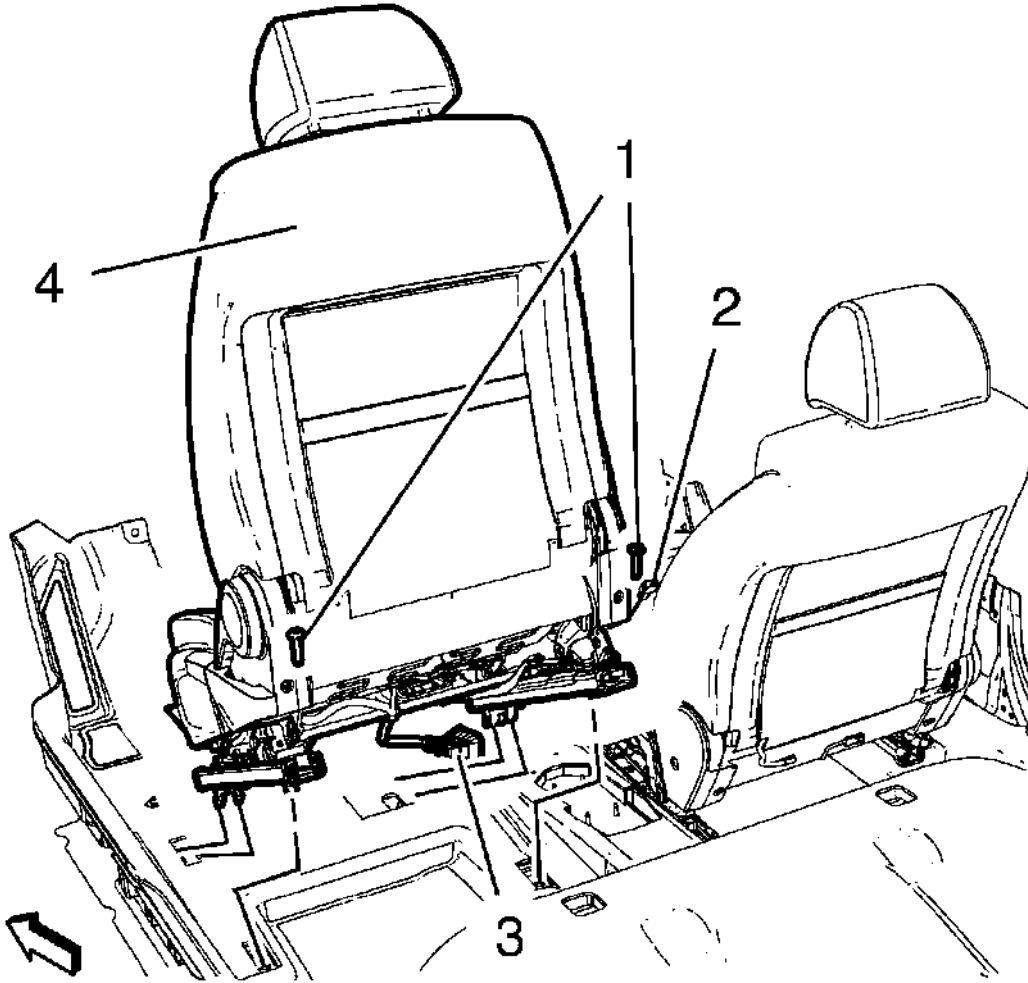


Fig. 1: Front Seat Components

Courtesy of GENERAL MOTORS COMPANY

3. Unscrew the 2 bolts (1).
4. Release and disconnect the wiring harness plug (3) front seat.
5. Remove the front seat (4) from the guide in front.

Installation Procedure

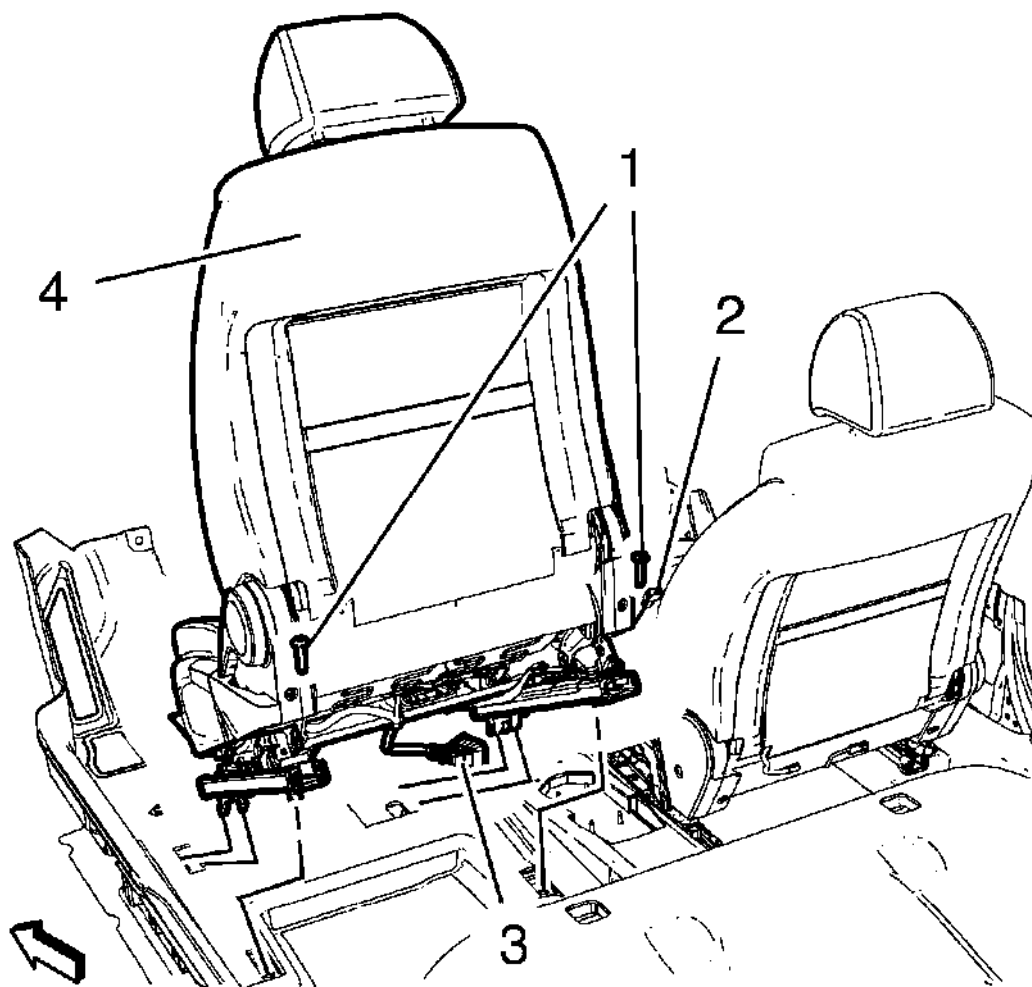


Fig. 2: Front Seat Components

Courtesy of GENERAL MOTORS COMPANY

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.

CAUTION: Refer to **Fastener Caution** .

4. Install the 2 bolts (1) and tighten to 45 N.m (33 lb ft).
5. Connect the seat belt to the seat belt tensioner. Refer to **Front Seat Belt Anchor Plate Tensioner Replacement**
6. Enable the SIR system. Refer to **SIR Disabling and Enabling** .

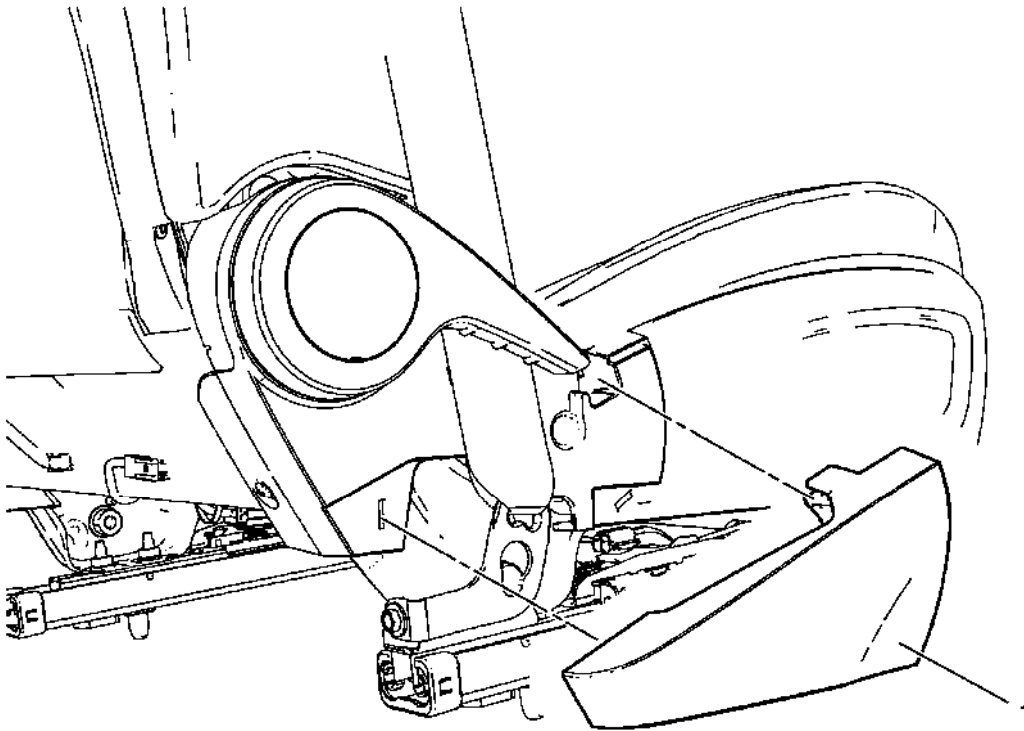


Fig. 3: Front Seat Outer Recliner Upper Finish Cover
Courtesy of GENERAL MOTORS COMPANY

Front Seat Outer Recliner Upper Finish Cover Replacement

Callout	Component Name
1	Front Seat Outer Recliner Upper Finish Cover

DRIVER OR PASSENGER SEAT ADJUSTER VERTICAL ACTUATOR HANDLE REPLACEMENT

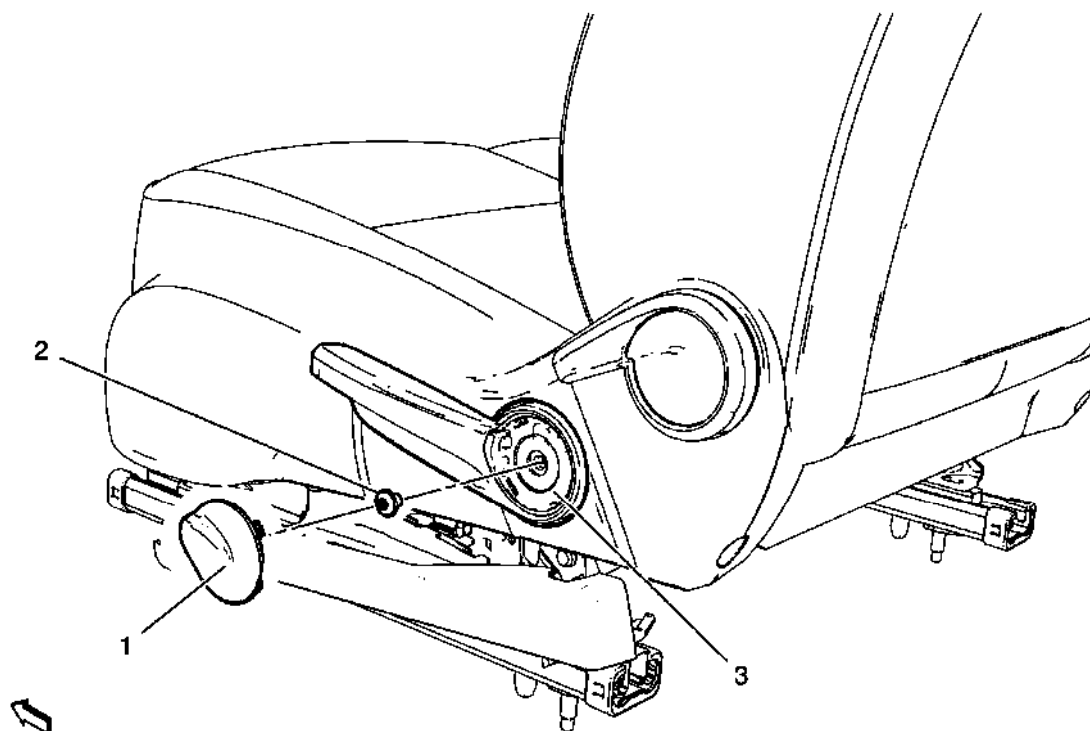


Fig. 4: Seat Adjuster Vertical Actuator Handle, Bolt & Cap
Courtesy of GENERAL MOTORS COMPANY

Driver or Passenger Seat Adjuster Vertical Actuator Handle Replacement

Callout	Component Name
1	Front Seat Adjuster Vertical Actuator Handle Cap Bolt
2	Front Seat Adjuster Vertical Actuator Handle Bolt
	CAUTION: Refer to <u>Fastener Caution</u> .
3	Front Seat Adjuster Vertical Actuator Handle

DRIVER OR PASSENGER SEAT ADJUSTER HANDLE REPLACEMENT

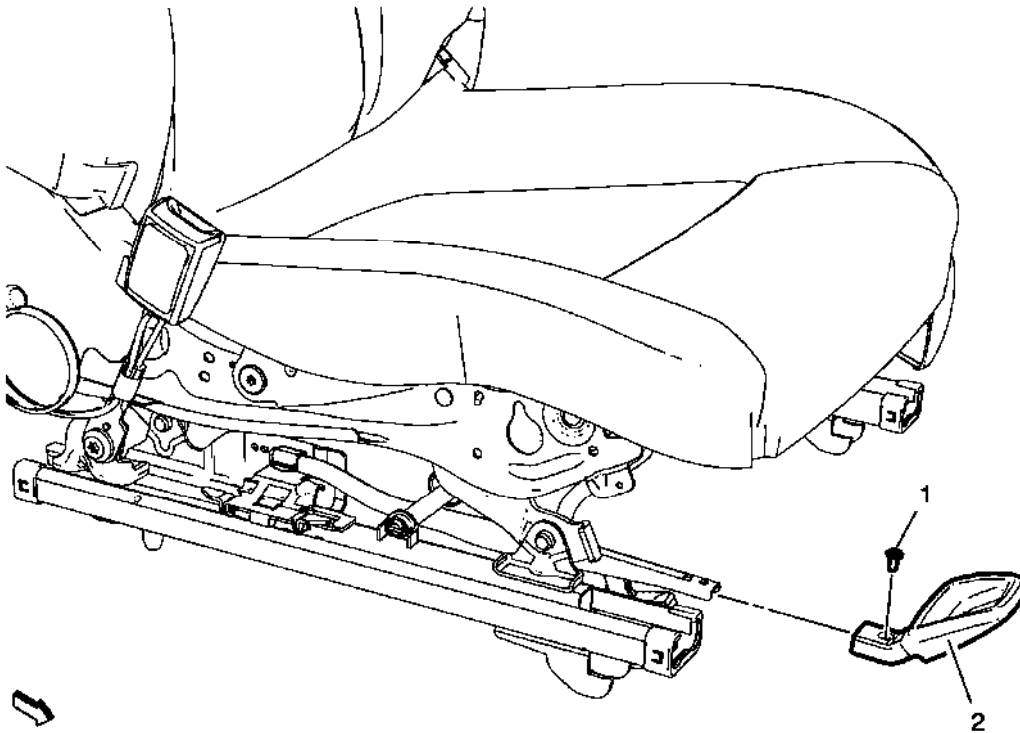
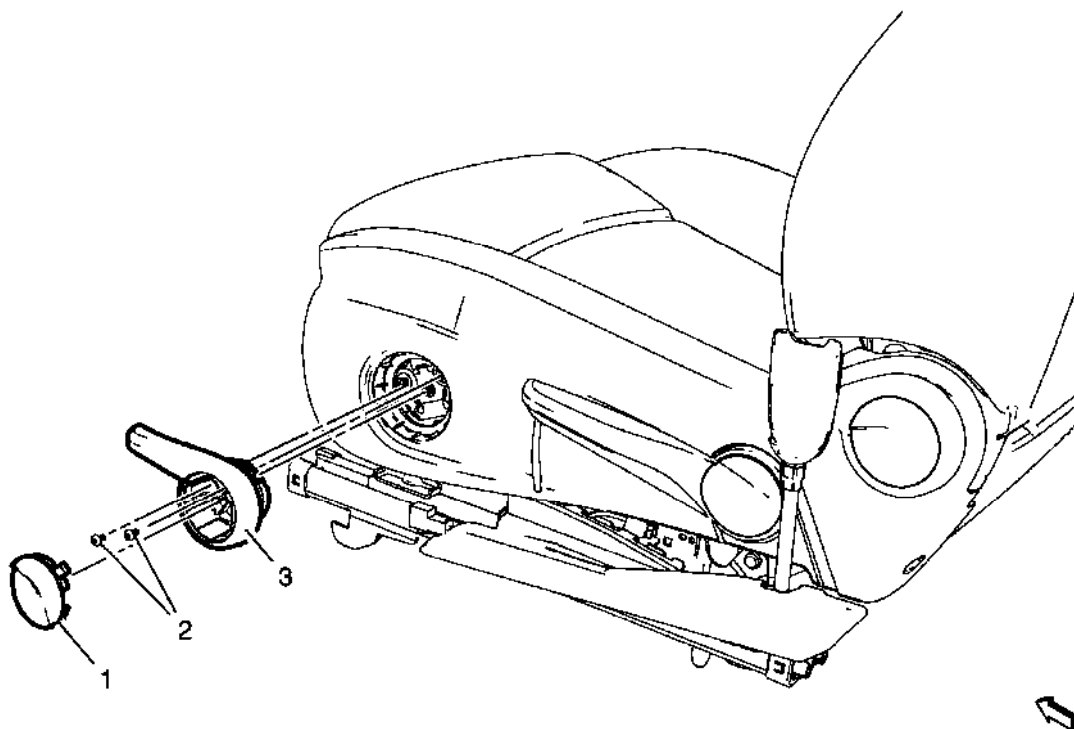


Fig. 5: Driver Or Passenger Seat Adjuster Handle
Courtesy of GENERAL MOTORS COMPANY

Driver or Passenger Seat Adjuster Handle Replacement

Callout	Component Name
1	Front Seat Adjuster Handle Bolt CAUTION: Refer to <u>Fastener Caution</u> .
2	Front Seat Adjuster Handle

FRONT SEAT TILT ADJUSTER LEVER REPLACEMENT

**Fig. 6: Front Seat Tilt Adjuster Lever**

Courtesy of GENERAL MOTORS COMPANY

Front Seat Tilt Adjuster Lever Replacement

Callout	Component Name
1	Front Seat Tilt Adjuster Lever Bolt Cap
2	Front Seat Tilt Adjuster Lever Fastener (Qty: 2) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 20 N.m (15 lb ft)
3	Front Seat Tilt Adjuster Lever Procedure Use a small flat-bladed tool to release the front seat tilt adjuster lever bolt cap.

FRONT SEAT TRACK SYNCHRONIZATION

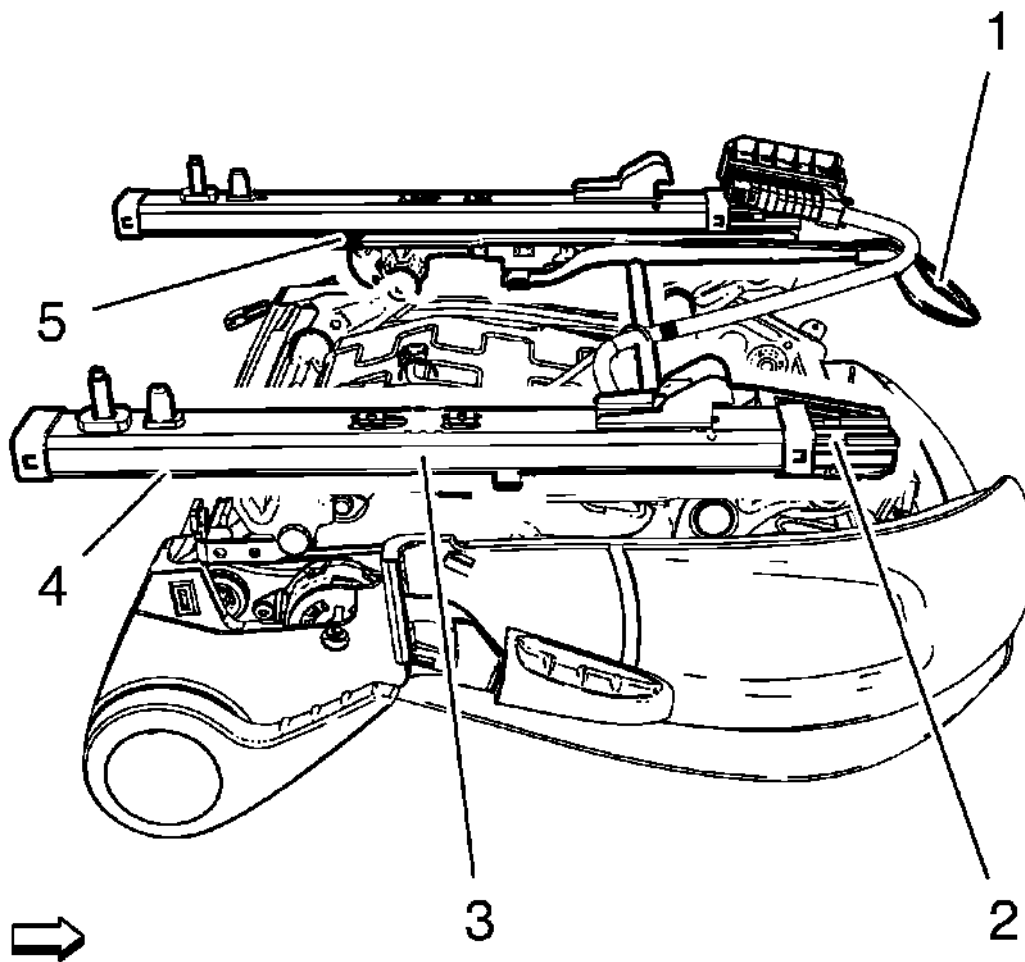


Fig. 7: Inboard Track Assembly And Outboard Track Assembly
Courtesy of GENERAL MOTORS COMPANY

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.

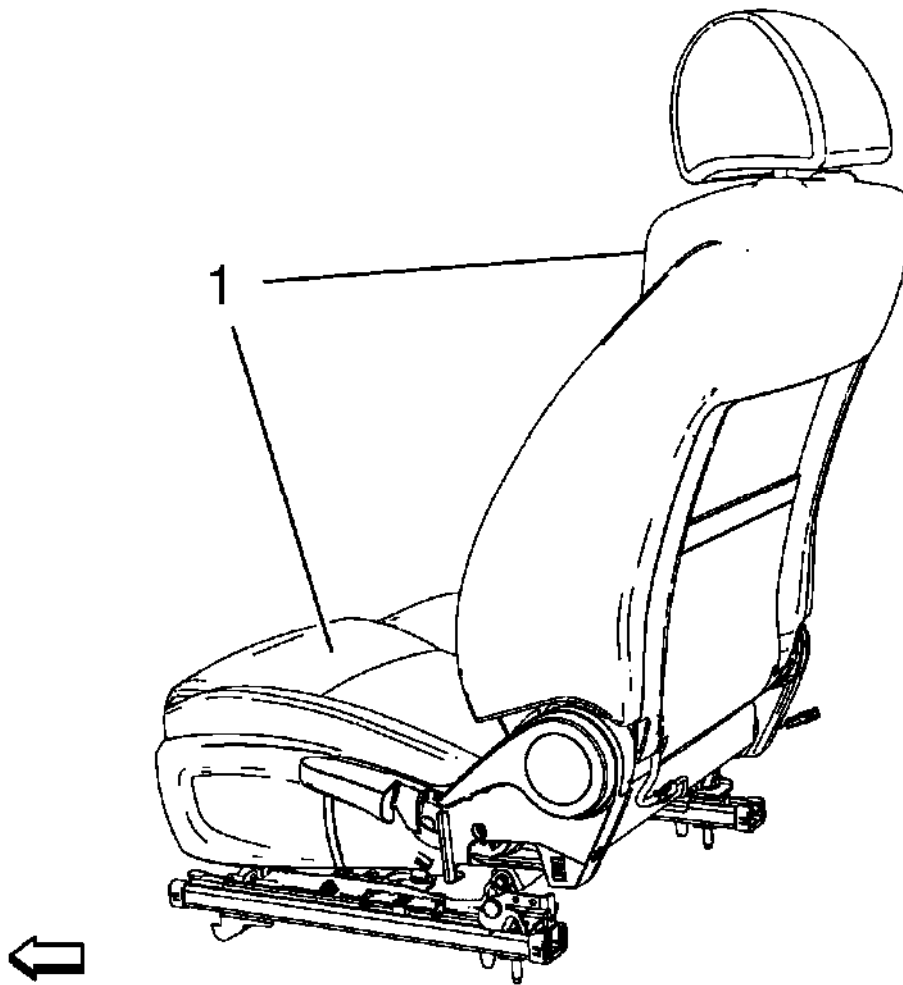


Fig. 8: Seat

Courtesy of GENERAL MOTORS COMPANY

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.

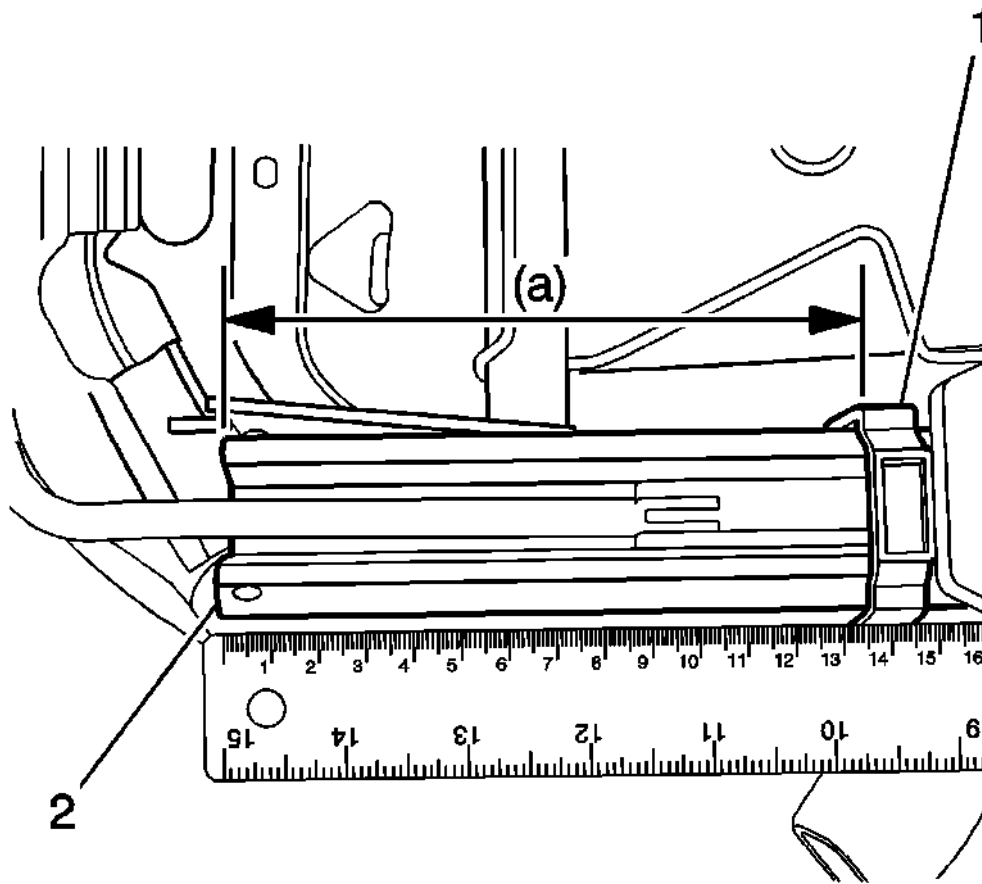


Fig. 9: Identifying Overhang Measurement

Courtesy of GENERAL MOTORS COMPANY

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.

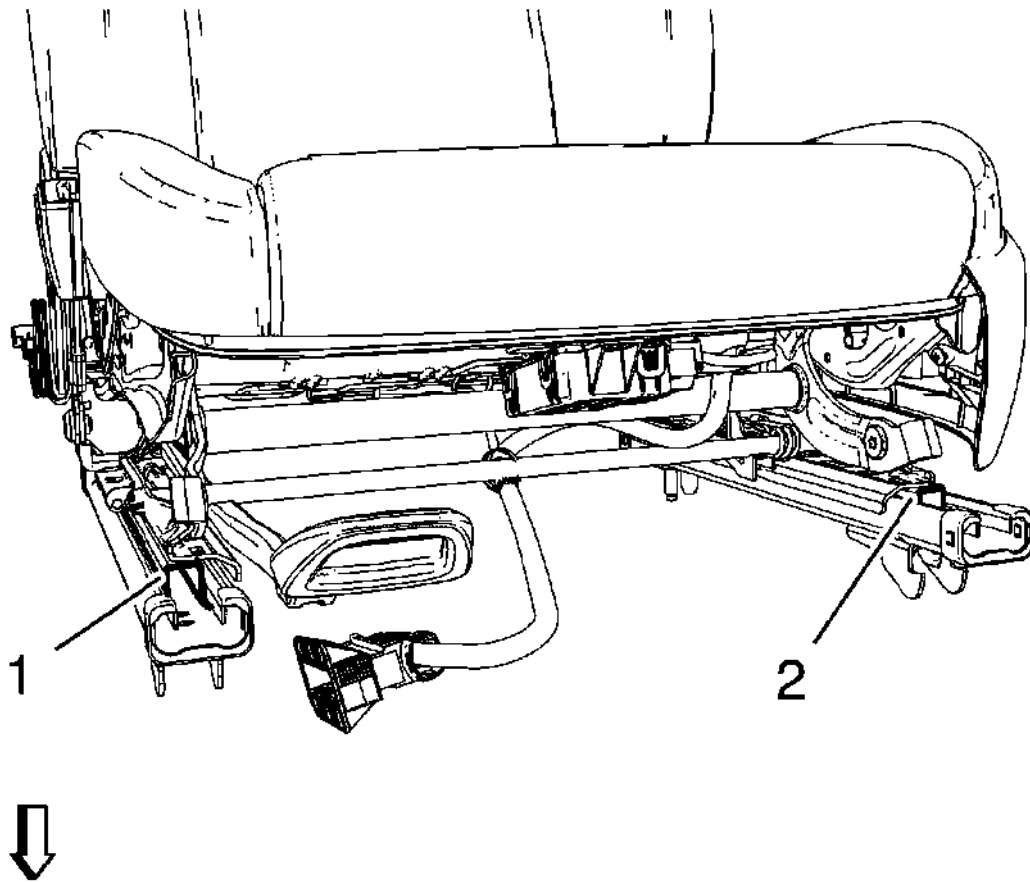


Fig. 10: Inboard And Outboard Tracks

Courtesy of GENERAL MOTORS COMPANY

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

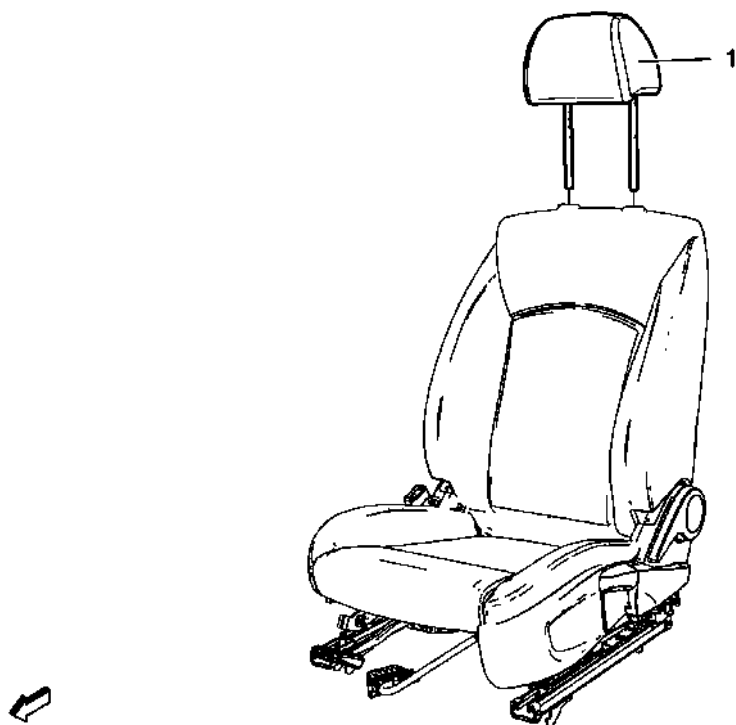


Fig. 11: Driver Or Passenger Seat Head Restraint
Courtesy of GENERAL MOTORS COMPANY

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. Push both flush button on the head restraint guide. 3. Remove the head restraint by pulling up on the restraint.

DRIVER OR PASSENGER SEAT HEAD RESTRAINT GUIDE REPLACEMENT

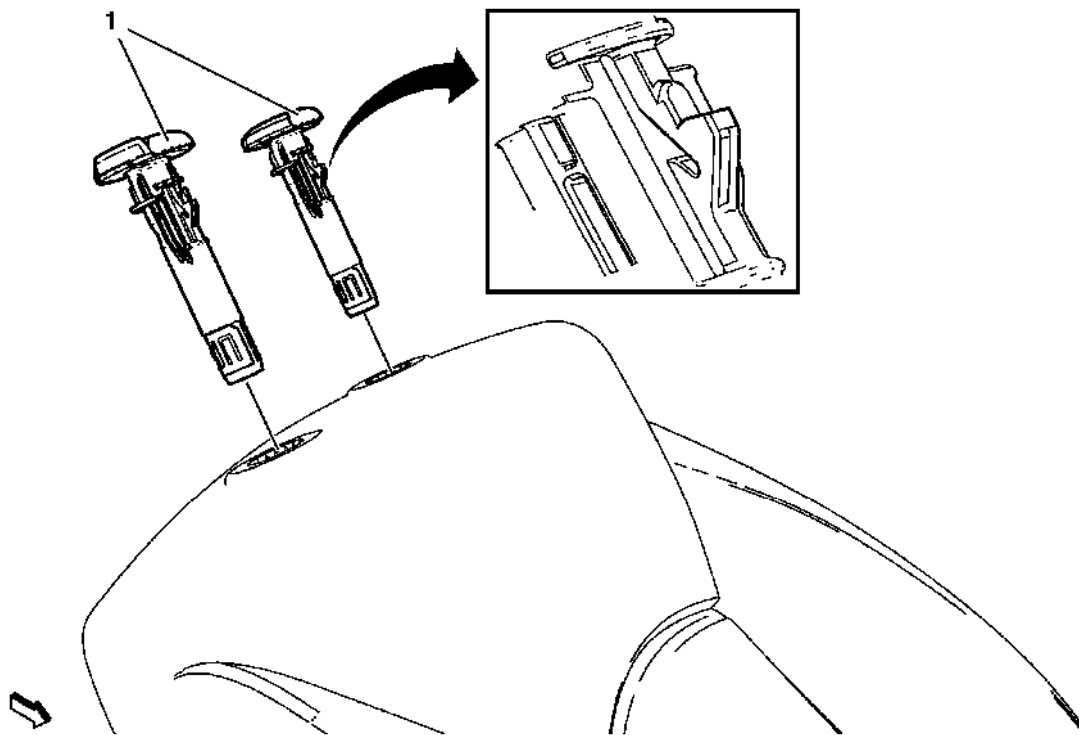


Fig. 12: Driver Or Passenger Seat Head Restraint Guide

Courtesy of GENERAL MOTORS COMPANY

Driver or Passenger Seat Head Restraint Guide Replacement

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

DRIVER OR PASSENGER SEAT CUSHION CLOSEOUT COVER REPLACEMENT

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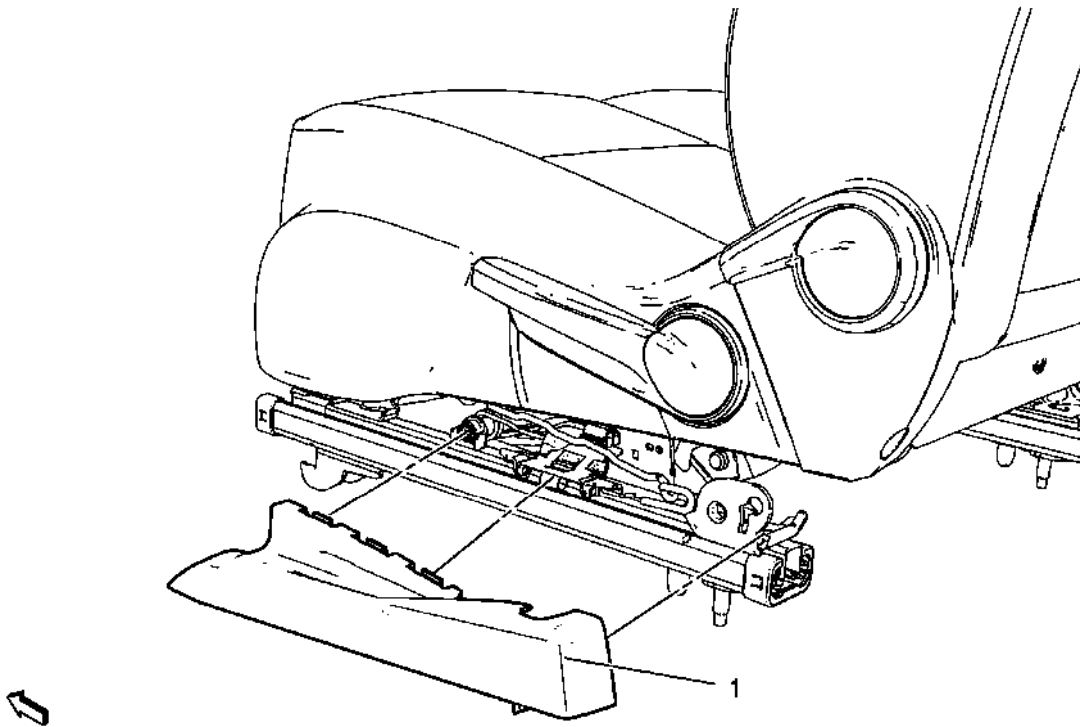


Fig. 13: Driver or Passenger Seat Outer Adjuster Finish Cover
Courtesy of GENERAL MOTORS COMPANY

Driver or Passenger Seat Cushion Closeout Cover Replacement

Callout	Component Name
1	Drive or Passenger Seat Cushion Closeout Cover

FRONT SEAT CUSHION OUTER TRIM PANEL REPLACEMENT

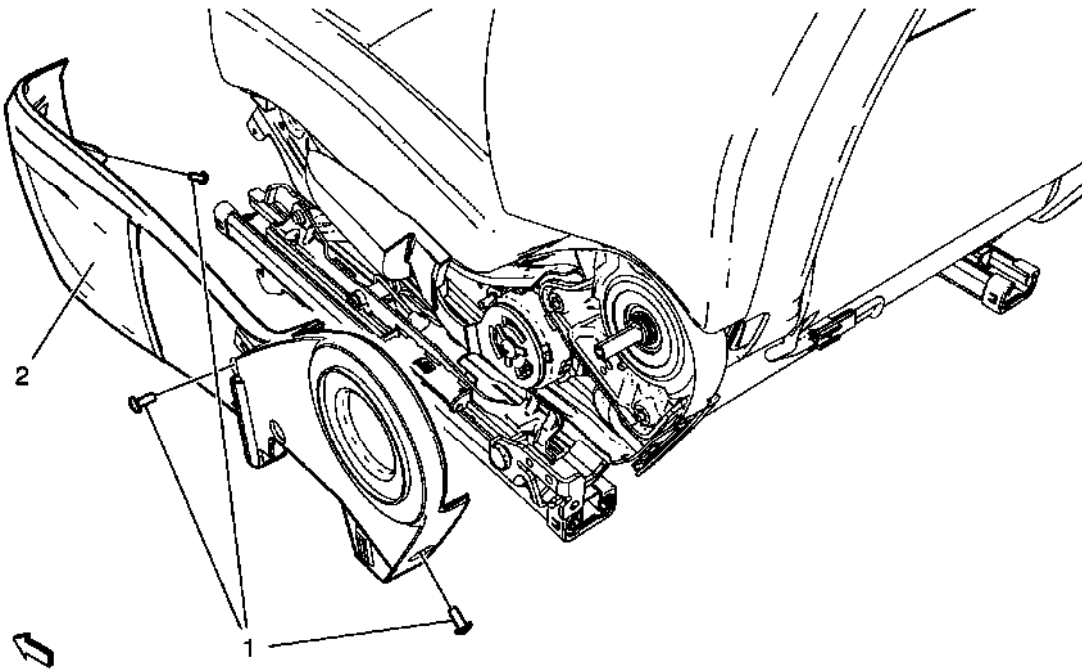


Fig. 14: Front Seat Cushion Outer Trim Panel
 Courtesy of GENERAL MOTORS COMPANY

Front Seat Cushion Outer Trim Panel Replacement

Callout	Component Name
Preliminary Procedures 1. Remove the front seat. Refer to <u>Driver or Passenger Seat Removal and Installation</u> 2. Remove the front seat adjuster vertical actuator, if equipped. Refer to <u>Driver or Passenger Seat Adjuster Vertical Actuator Handle Replacement</u>. 3. Remove the front seat tilt adjuster lever, if equipped <u>Front Seat Tilt Adjuster Lever Replacement</u>. 4. Remove the front seat recliner handle. Refer to <u>Front Seat Back Recliner Handle Replacement</u>	
1	Front Seat Cushion Outer Trim Panel Screw (Qty: 3) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 2.5 N.m (22 lb in)
2	Front Seat Cushion Outer Trim Panel Procedure Transfer driver seat adjuster switch, if equipped. Refer to <u>Driver</u>

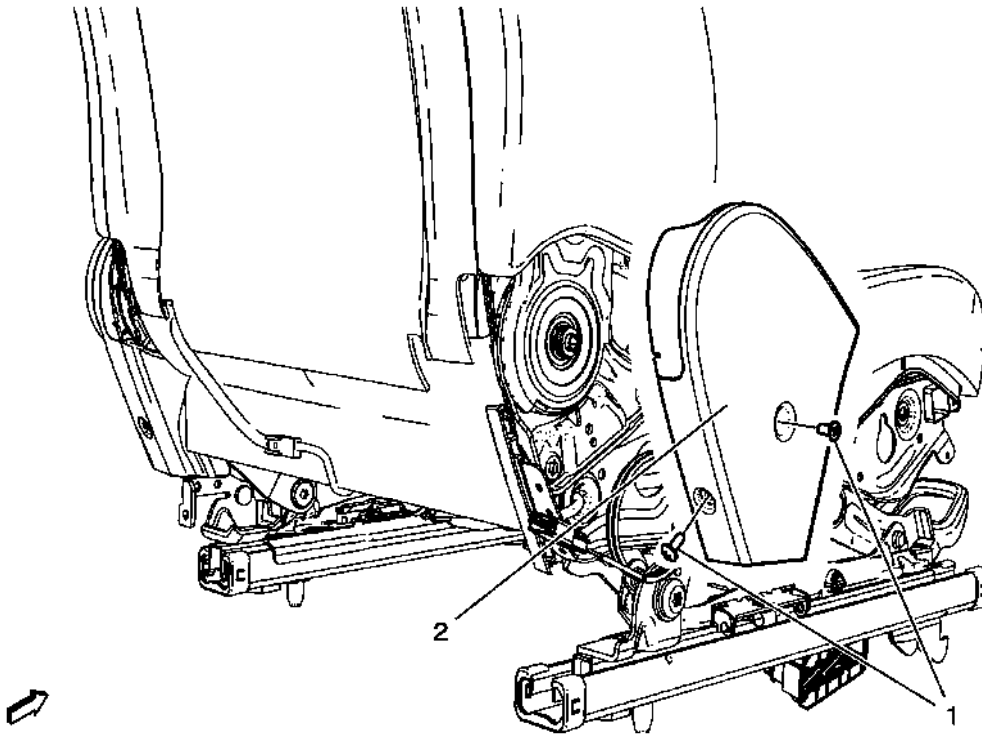
Seat Adjuster Switch Replacement .**FRONT SEAT CUSHION INNER TRIM PANEL REPLACEMENT**

Fig. 15: Front Seat Cushion Inner Trim Panel
Courtesy of GENERAL MOTORS COMPANY

Front Seat Cushion Inner Trim Panel Replacement

Callout	Component Name
Preliminary Procedures Remove the front seat. Refer to <u>Driver or Passenger Seat Removal and Installation.</u>	
1	Front Seat Cushion Inner Trim Panel Screw (Qty: 2) CAUTION: Refer to <u>Fastener Caution .</u> Tighten 2.5 N.m (22 lb in)
2	Front Seat Cushion Inner Trim Panel

FRONT SEAT CUSHION COVER AND PAD REPLACEMENT**Removal Procedure**

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WARNING: Refer to SIR Warning .

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.

WARNING: To avoid personal injuries, re-zero the passenger presence system whenever you remove or replace the seat cushion or trim. Failure to do so may cause the system to malfunction.

1. Remove driver or passenger seat. Refer to Driver or Passenger Seat Removal and Installation.
2. Remove front seat recliner handle. Refer to Front Seat Back Recliner Handle Replacement.
3. Remove seat cushion inner trim panel. Refer to Front Seat Cushion Inner Trim Panel Replacement.
4. Remove seat cushion outer trim panel. Refer to Front Seat Cushion Outer Trim Panel Replacement.

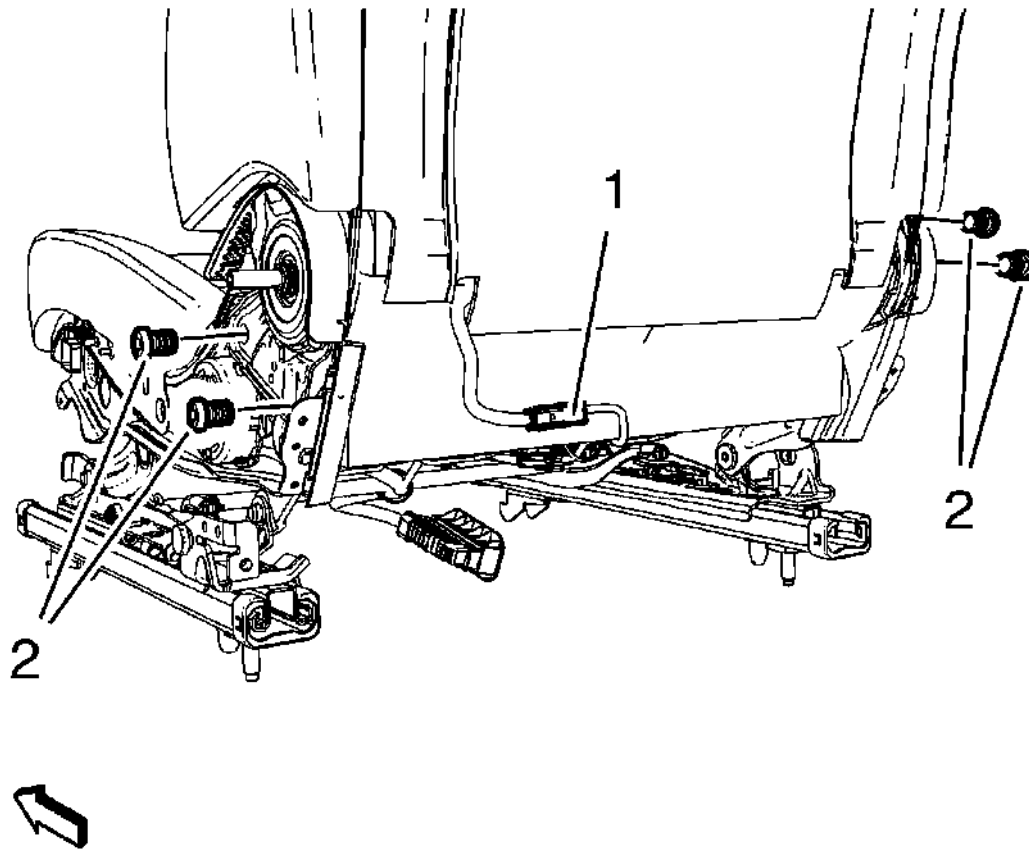


Fig. 16: Wiring Harness Plug

Courtesy of GENERAL MOTORS COMPANY

5. Detach cushion cover from backrest below.
6. Disconnect wiring harness plug (1), if equipped.
7. Release the seat wiring harness as required from the seat bottom.
8. Remove front seat backrest 4 screw (2).
9. Remove backrest.

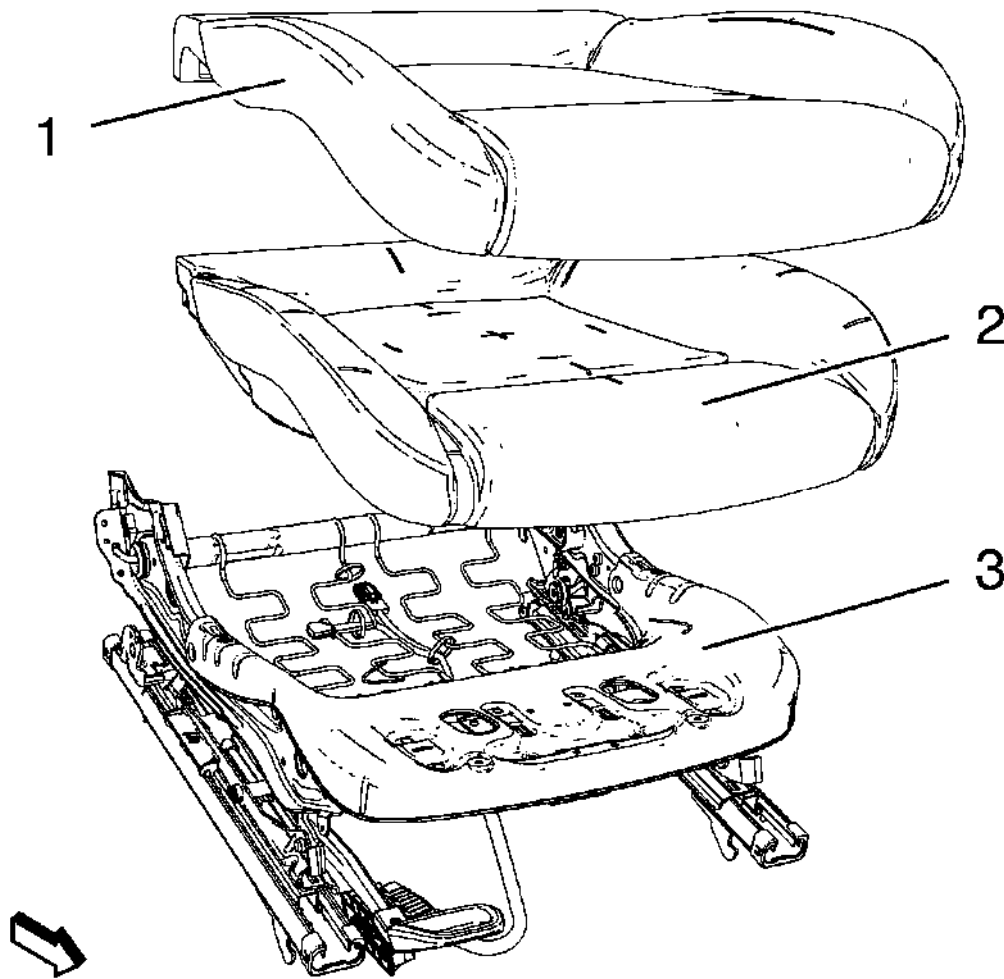


Fig. 17: Cushion Cover, Seat Frame And Pad
Courtesy of GENERAL MOTORS COMPANY

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

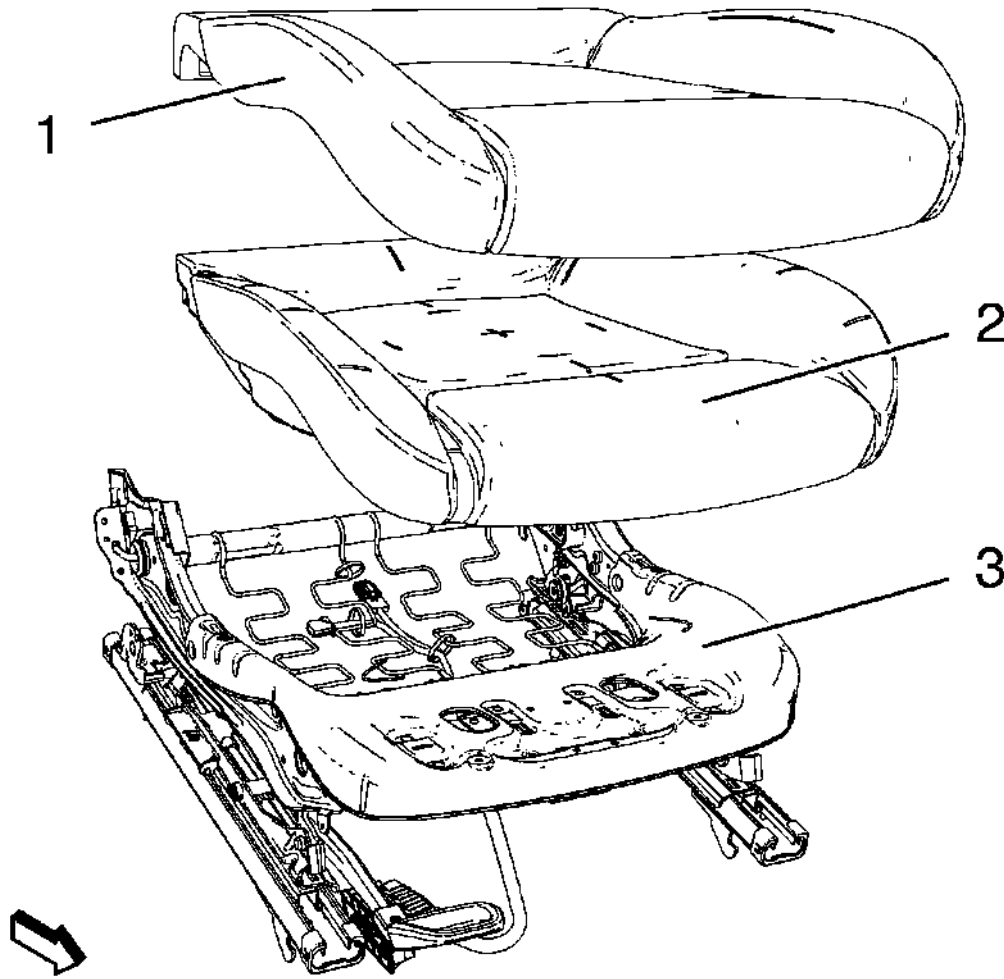


Fig. 18: Cushion Cover, Seat Frame And Pad
Courtesy of GENERAL MOTORS COMPANY

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.

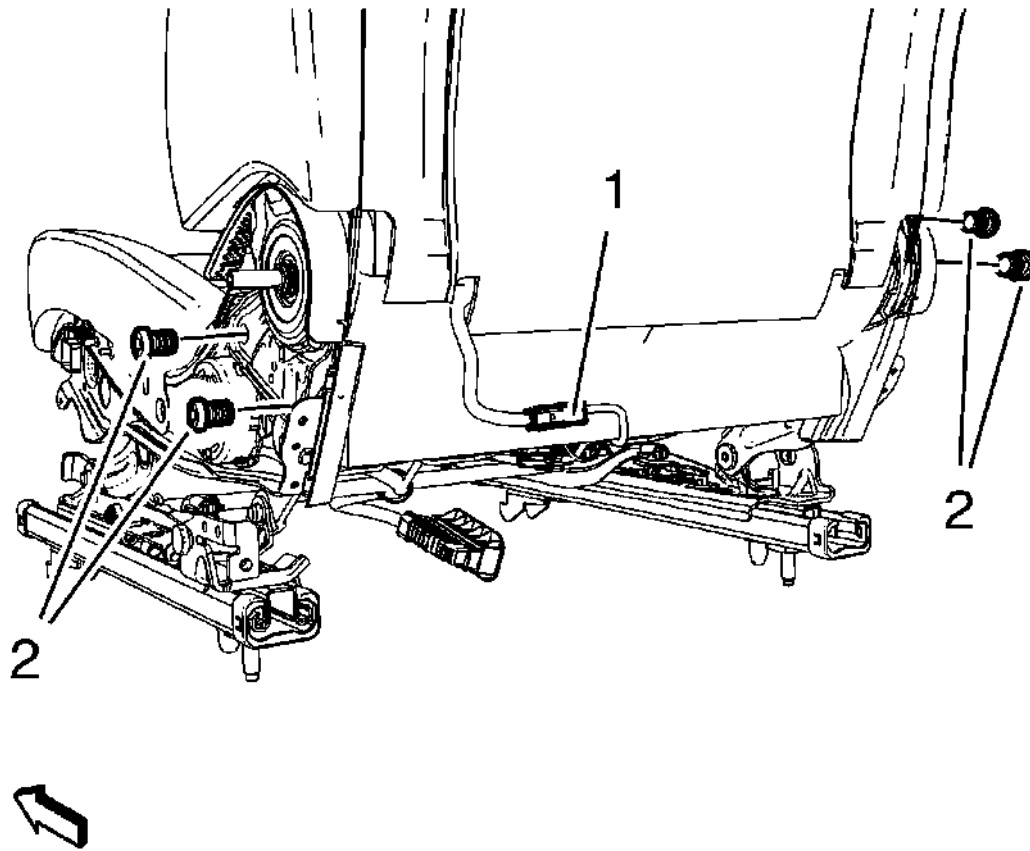


Fig. 19: Wiring Harness Plug

Courtesy of GENERAL MOTORS COMPANY

4. Install backrest.

CAUTION: Refer to Fastener Caution .

5. Install 4 screws (2) and tighten to 35 N.m (26 lb ft).
6. Connect the wiring harness plug (1), if equipped.
7. Install the seat wiring harness as required to the seat bottom.
8. Attach cushion cover to backrest below.
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 Front Seat Back Recliner Handle Replacement.

12. Install driver or passenger seat. Refer to **Driver or Passenger Seat Removal and Installation**.
13. After working on the passenger seat, program or re-zero the inflatable restraint passenger presence system after repairs or replacement. Refer to **Control Module References**.

DRIVER OR PASSENGER SEAT CUSHION PAD WIRE REPLACEMENT

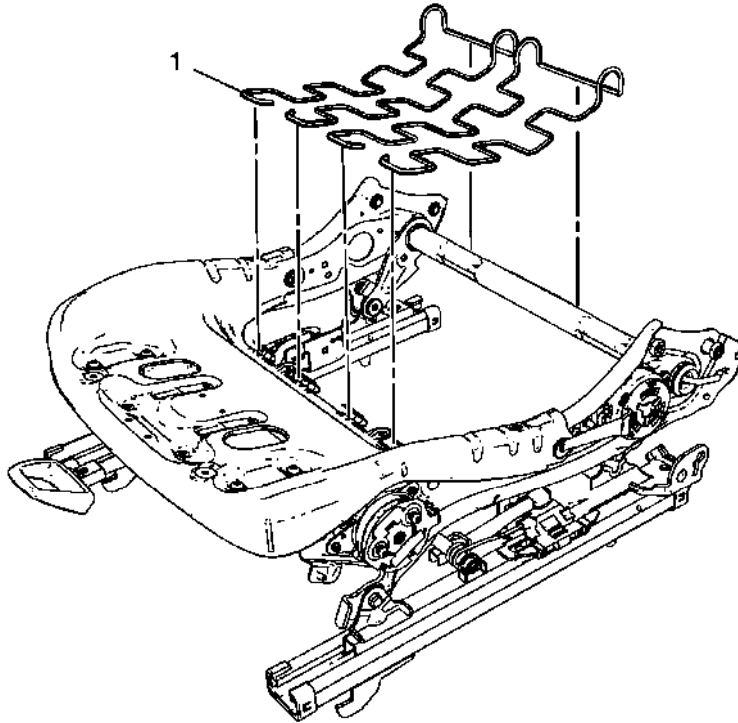


Fig. 20: Driver Or Passenger Seat Cushion Pad Wire
Courtesy of GENERAL MOTORS COMPANY

Driver or Passenger Seat Cushion Pad Wire Replacement

Callout	Component Name
Preliminary Procedures Remove the front seat cushion cover and pad. Refer to <u>Front Seat Cushion Cover and Pad Replacement</u> .	
1	Front Seat Cushion Pad Wire.

DRIVER OR PASSENGER SEAT BACK COVER AND PAD REPLACEMENT

Removal Procedure

WARNING: Refer to **SIR Warning**.

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.

WARNING: Do not repair or replace the seat stitching or seams in the seat back trim cover with an internal mounted seat side airbag module. Replace the complete seat back trim cover from the OEM. Non-OEM seat stitching may cause improper airbag deployment which could result in personal injury.

1. Remove driver or passenger seat. Refer to **Driver or Passenger Seat Removal and Installation**.
2. Remove the seat adjuster handle, if equipped. Refer to **Driver or Passenger Seat Adjuster Handle Replacement**
3. Remove front seat recliner handle. Refer to **Front Seat Back 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 **Driver or Passenger Seat Head Restraint Guide Replacement**.

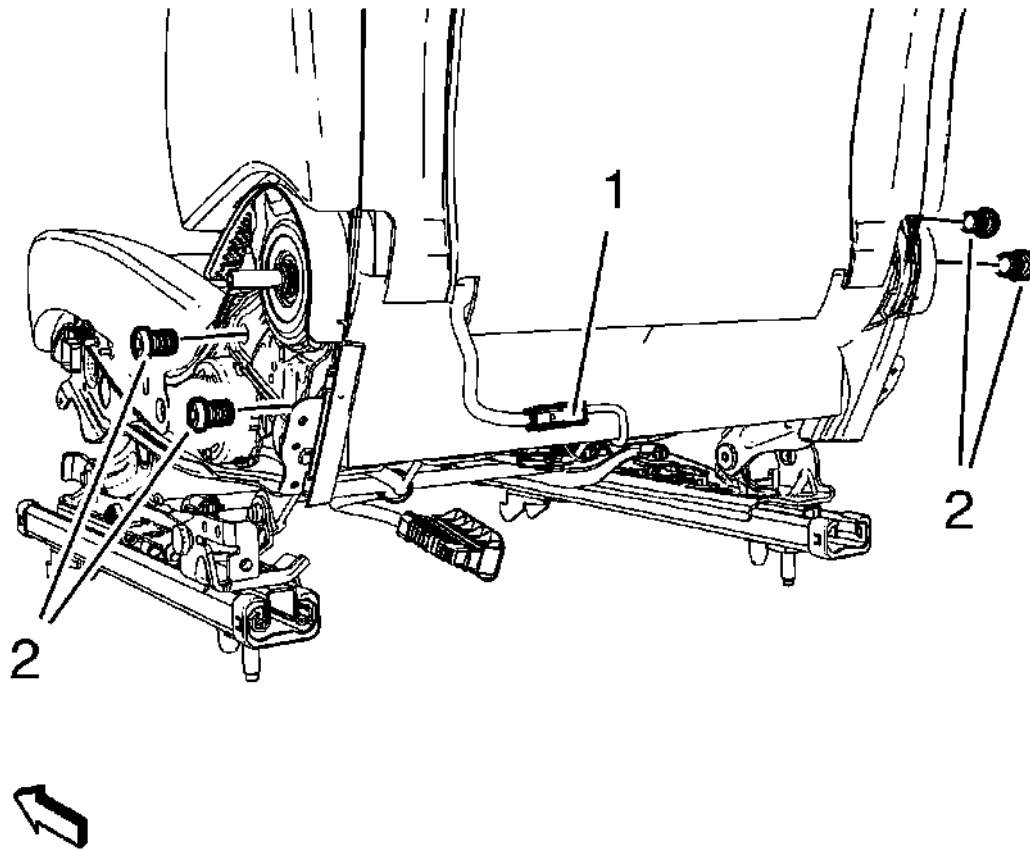


Fig. 21: Wiring Harness Plug

Courtesy of GENERAL MOTORS COMPANY

7. Disengage the trim clips and bungee straps from the seat cushion springs beneath the seat cushion.
8. Release and disconnect wiring harness plug (1), if equipped.
9. Remove the 4 front seat back fasteners (2).
10. Remove the seat back assembly from the cushion assembly and place on a protected surface.

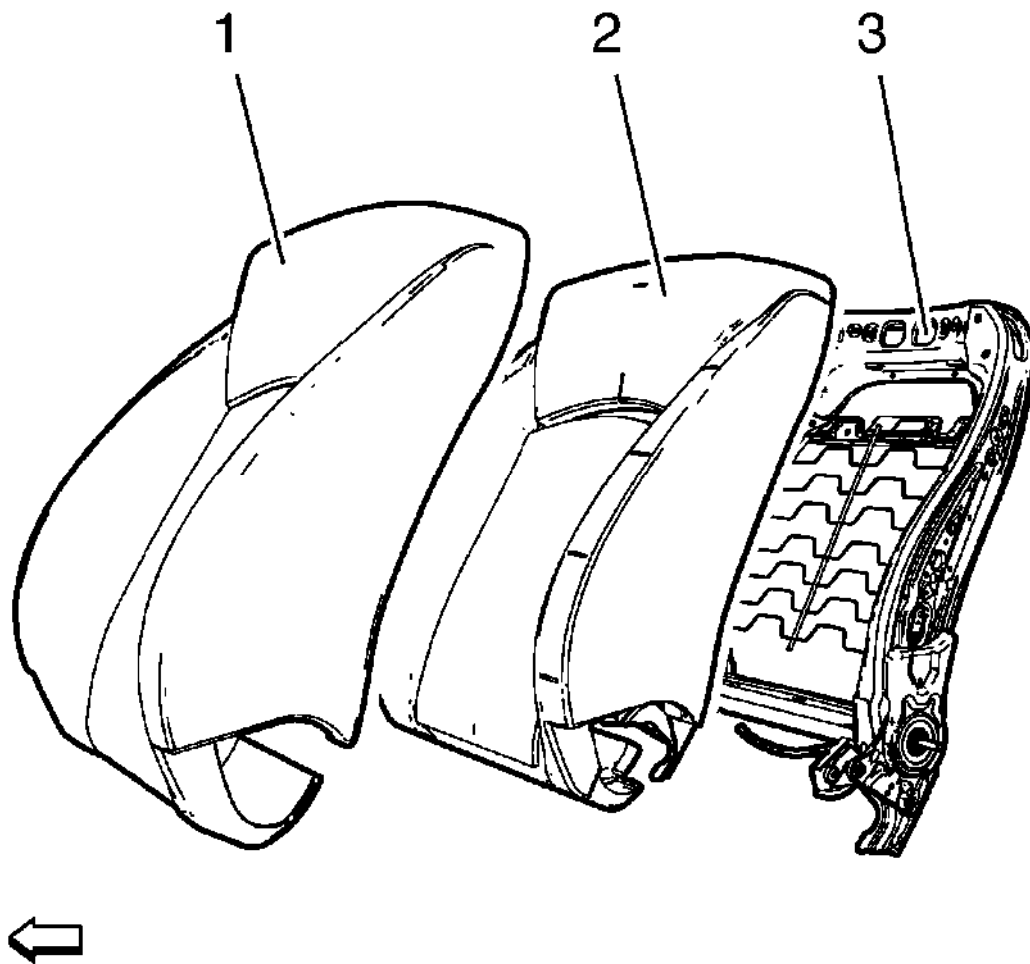


Fig. 22: Cushion Cover, Pad And Frame
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Do not pull up on the rear portion of the seat back cover without releasing the upper channel retainer. This retainer secures the seat back cover to the seat back frame. Failure to release the upper channel retainer prior to seat back cover removal will damage the seat back cover.

11. Loosen the front seat back cover (1) from the frame (3).
 - Disengage the J-channel retainer at the bottom of the seat back cover and separate the front and rear portions of the seat back cover.
 - Open the 2 zippers on the backside of the seat back cover.
 - Disengage the visible seat back cover retainers.

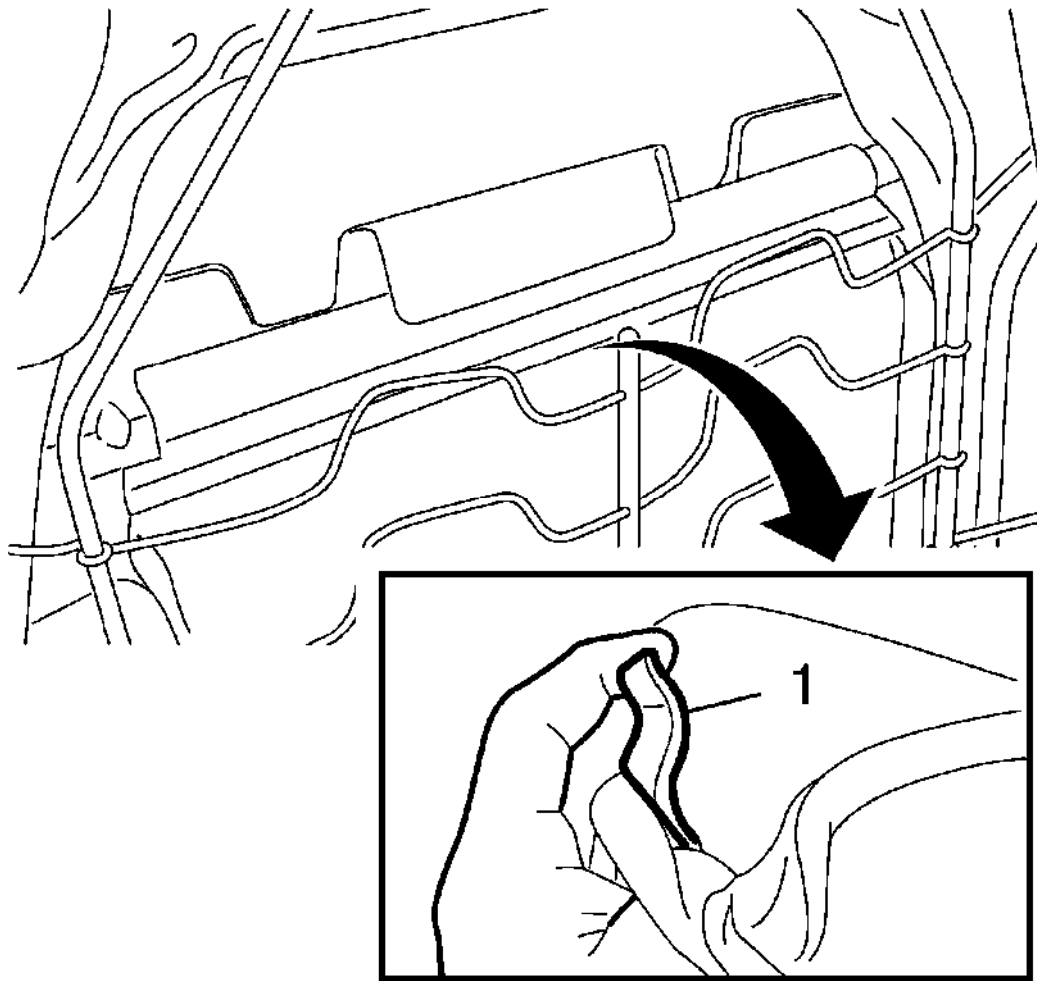


Fig. 23: Front Seat Back Cover Upper Retainer

Courtesy of GENERAL MOTORS COMPANY

12. Remove the front seat back cover upper retainer (1) from the frame.
 - Position the front portion of the seat back cover forward on the seat back frame.
 - Lift the front portion of the seat back cover and seat back pad enough to gain access to the upper retainer.
 - Disengage the upper retainer from the seat back frame.

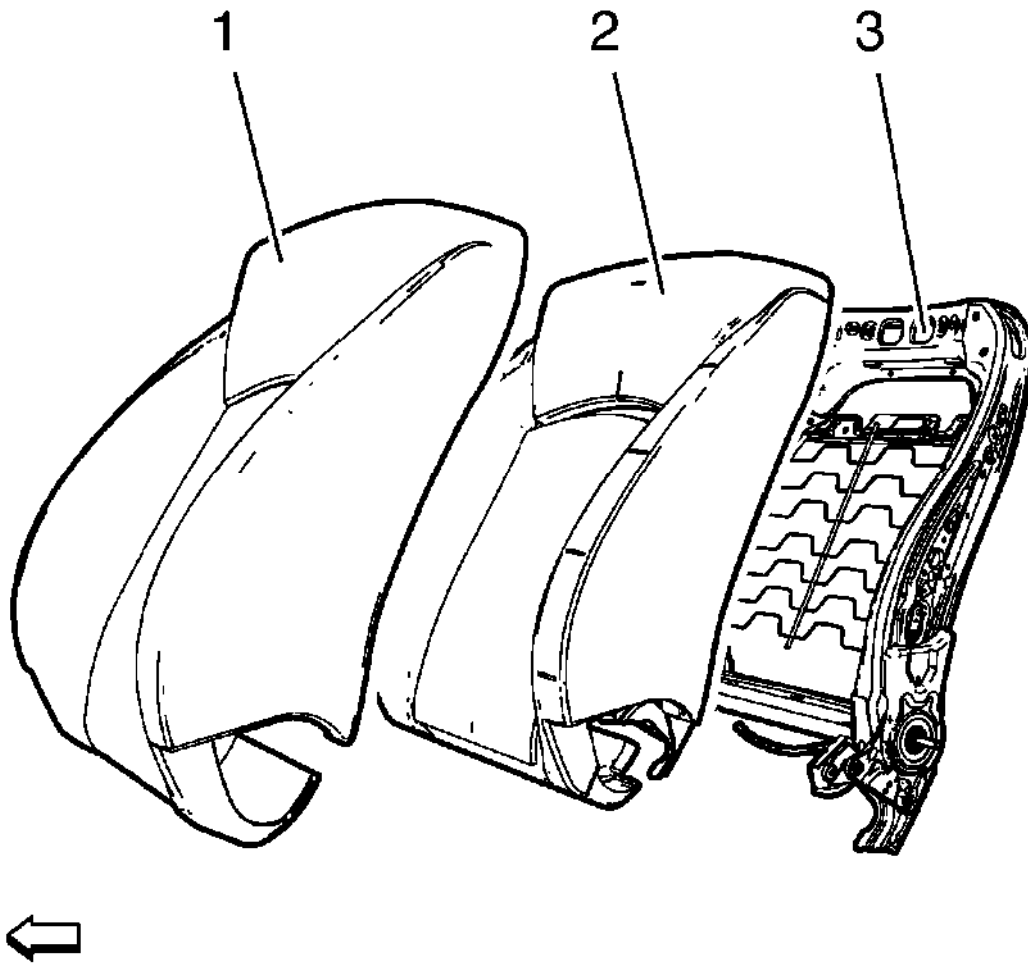


Fig. 24: Cushion Cover, Pad And Frame
Courtesy of GENERAL MOTORS COMPANY

13. Remove the front seat back cover (1) from the pad (2).
 - Remove the seat back cover (1) from velcro on the vertical trench attachments.
 - Separate the cross-seat retainer on lower tie downs.
 - Starting at the rear, pull the trim cover up over the top of the seat.
14. Remove the seat side airbag. Refer to **Front Seat Outboard Seat Back Airbag Replacement** .
15. Remove the front seat back cushion pad (2).
16. Remove the front seat back cushion heater, if equipped. Refer to **Driver or Passenger Seat Back Cushion Heater Replacement** .

Installation Procedure

1. Install the front seat back cushion heater to the new cushion pad, if equipped. Refer to **Driver or Passenger Seat Back Cushion Heater Replacement** .

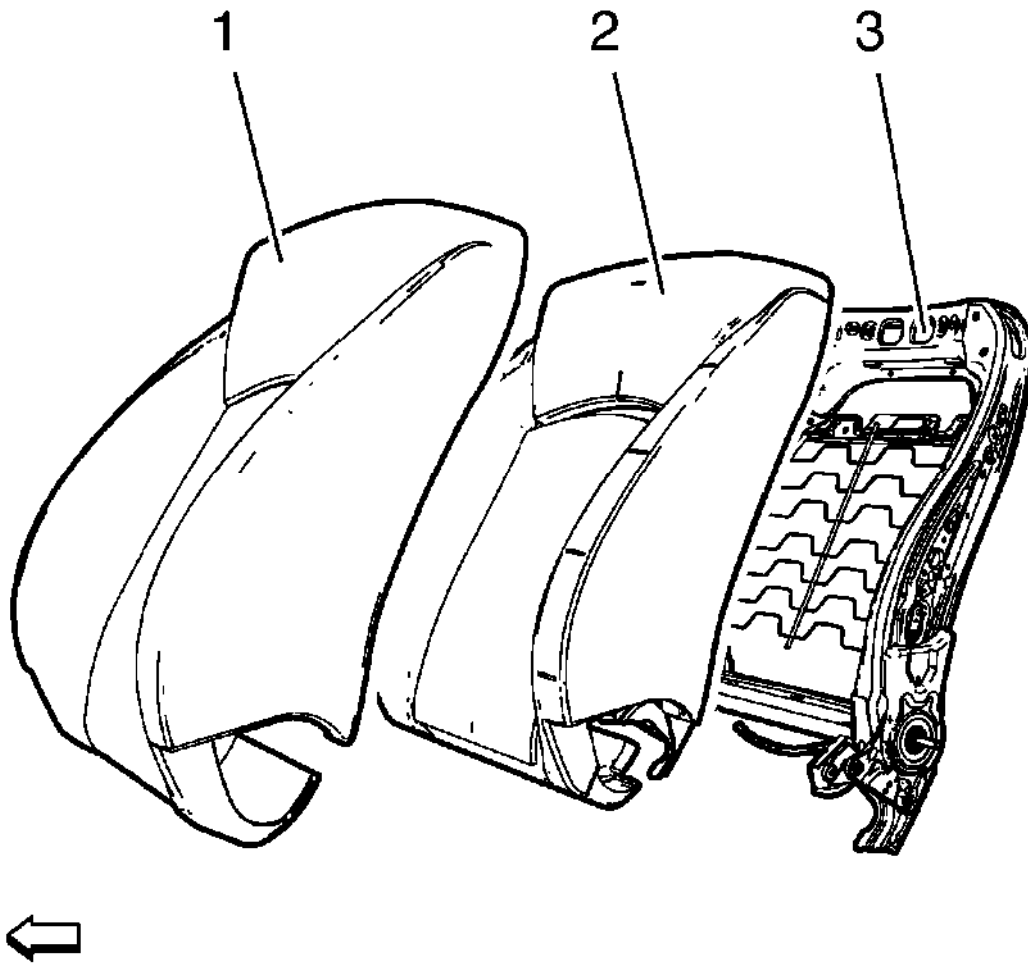


Fig. 25: Cushion Cover, Pad And Frame
Courtesy of GENERAL MOTORS COMPANY

2. Install the seat back cover (1) to the seat back pad (2).
 - Install the seat back cover (1) onto velcro on vertical trench attachments.
 - Attach the cross-seat retainer on lower tie downs.
 - Position the seat back cover (1) and pad (2) to the seat back frame (3).
3. Install the seat side airbag. Refer to **Front Seat Outboard Seat Back Airbag Replacement** .
4. Secure the seat back cover (1) to seat back frame (3).
 - Install the seat back cover upper retainer to the seat back frame.
 - Position the front portion of the seat back cover around the bottom of the seat back frame.
 - Secure the seat back cover retainers all the way around.
 - Close the 2 zippers on the backside of the seat back cover.
 - Connect the J-retainer to secure the front and rear portions of the seat back cover.

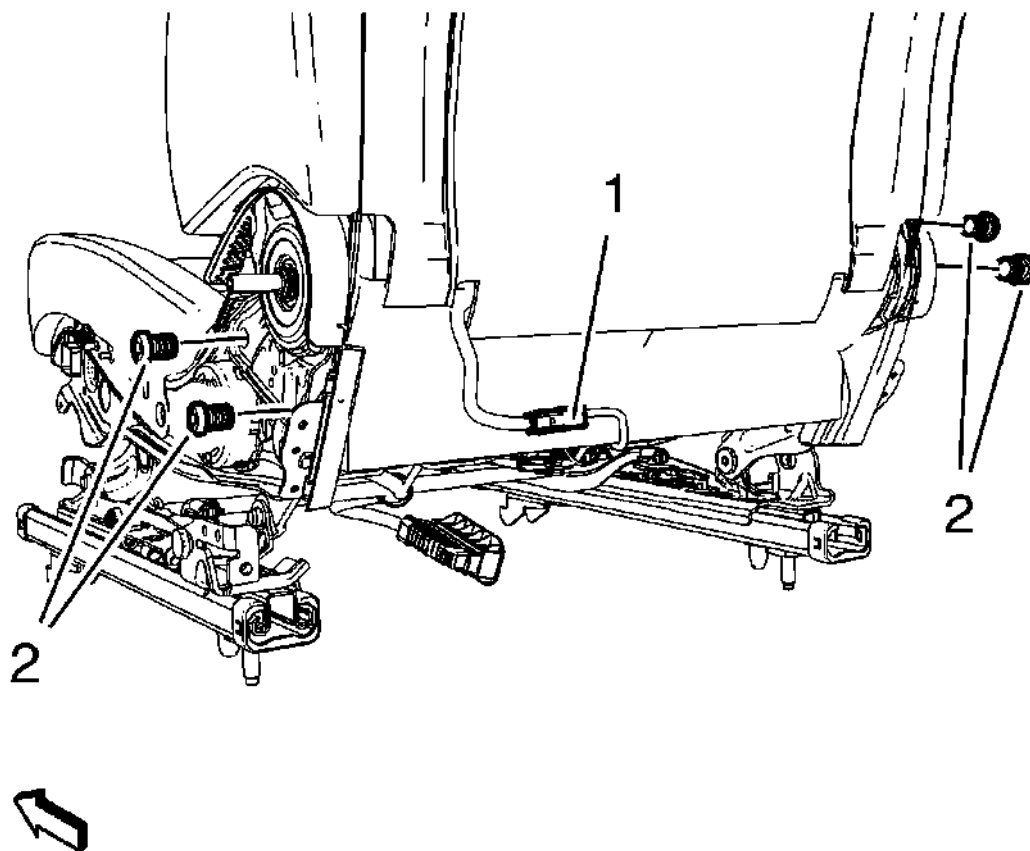


Fig. 26: Wiring Harness Plug

Courtesy of GENERAL MOTORS COMPANY

5. Install the seat back to the seat cushion.

CAUTION: Refer to Fastener Caution .

6. Install the front seat back bolts (2) and tighten to 35 N.m (26 lb ft).
7. Connect the wiring harness plug (1), if equipped.
8. Install the seat wiring harness as required to the seat cushion frame.
9. Attach cushion cover below the seat back.
10. Install front seat head restraint guide. Refer to Driver or Passenger Seat Head Restraint Guide Replacement.
11. Install seat cushion outer trim panel. Refer to Front Seat Cushion Outer Trim Panel Replacement.

12. Install seat cushion inner trim panel. Refer to **Front Seat Cushion Inner Trim Panel Replacement**.
13. Install front seat recliner handle. Refer to **Front Seat Back Recliner Handle Replacement**.
14. Install seat adjuster handle, if equipped. Refer to **Driver or Passenger Seat Adjuster Handle Replacement**.
15. Install driver or passenger seat. Refer to **Driver or Passenger Seat Removal and Installation**.

FRONT SEAT BACK RECLINER HANDLE REPLACEMENT

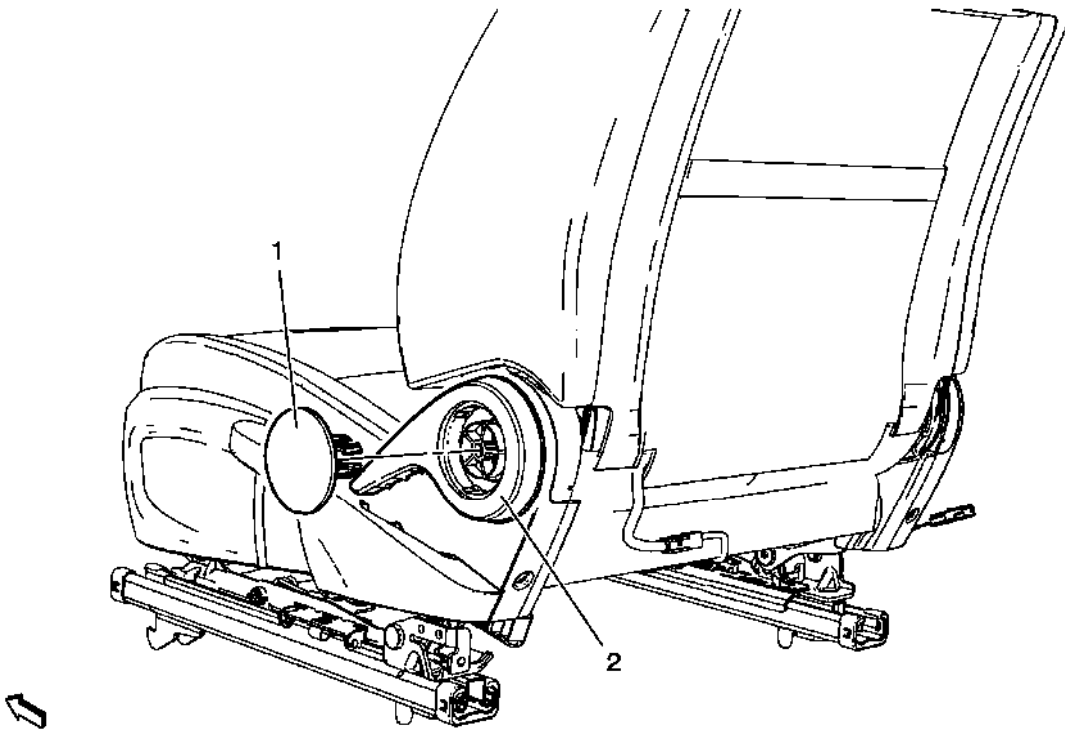


Fig. 27: Driver Or Passenger Seat Recliner Handle
Courtesy of GENERAL MOTORS COMPANY

Front Seat Back Recliner Handle Replacement

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

DRIVER SEAT FRAME REPLACEMENT

Removal Procedure

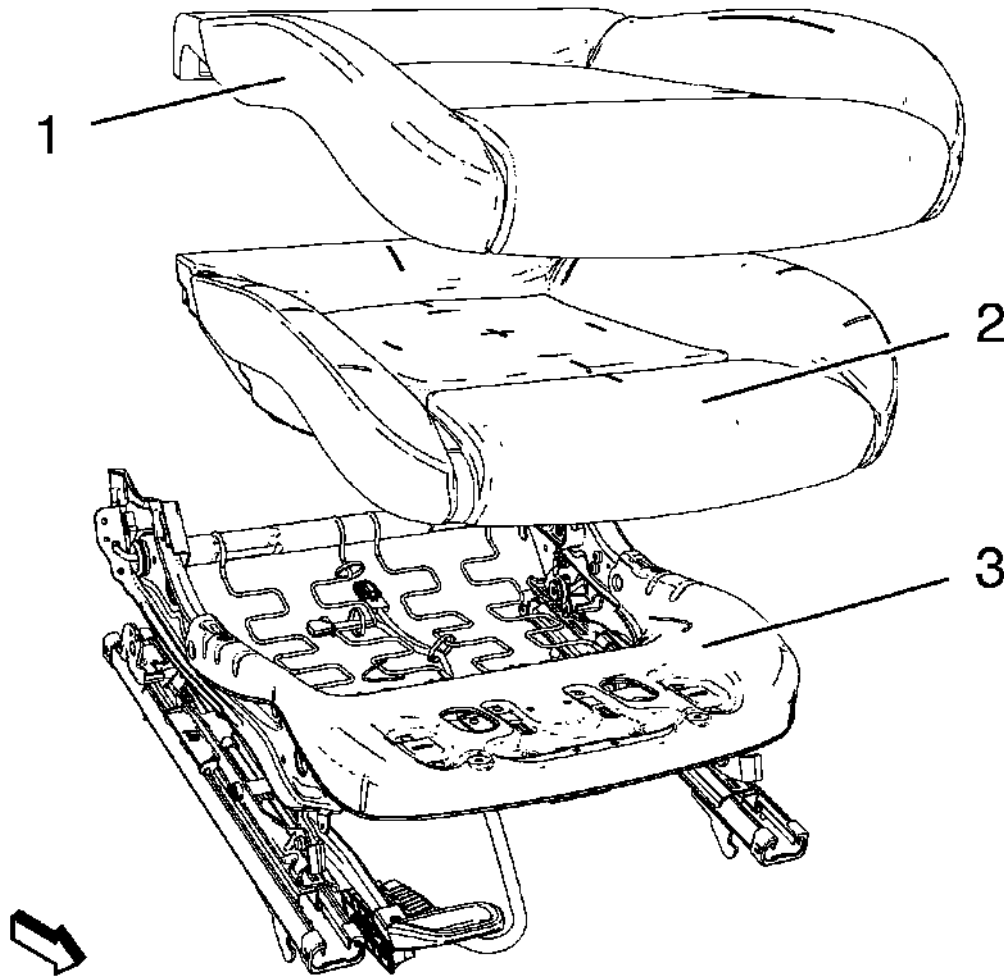


Fig. 28: Cushion Cover, Seat Frame And Pad
Courtesy of GENERAL MOTORS COMPANY

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

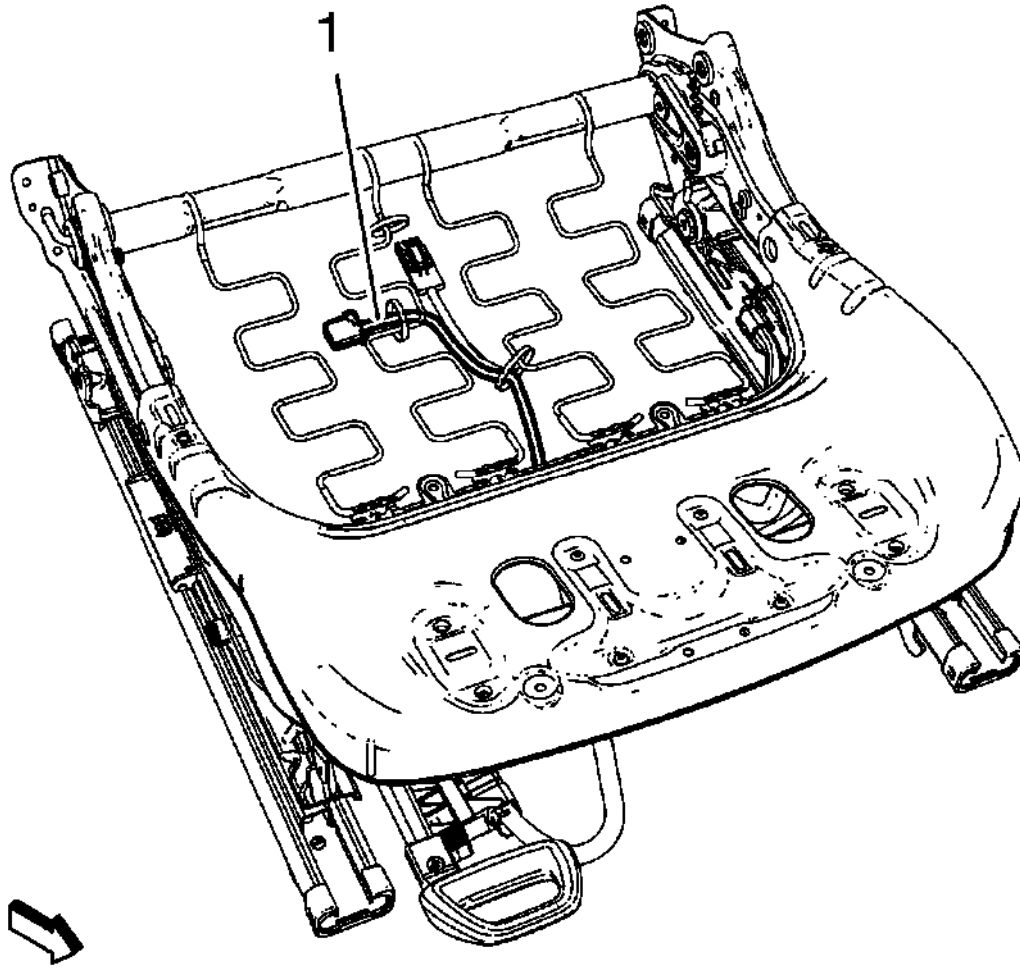


Fig. 29: Driver Seat Frame Wire Harness
Courtesy of GENERAL MOTORS COMPANY

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

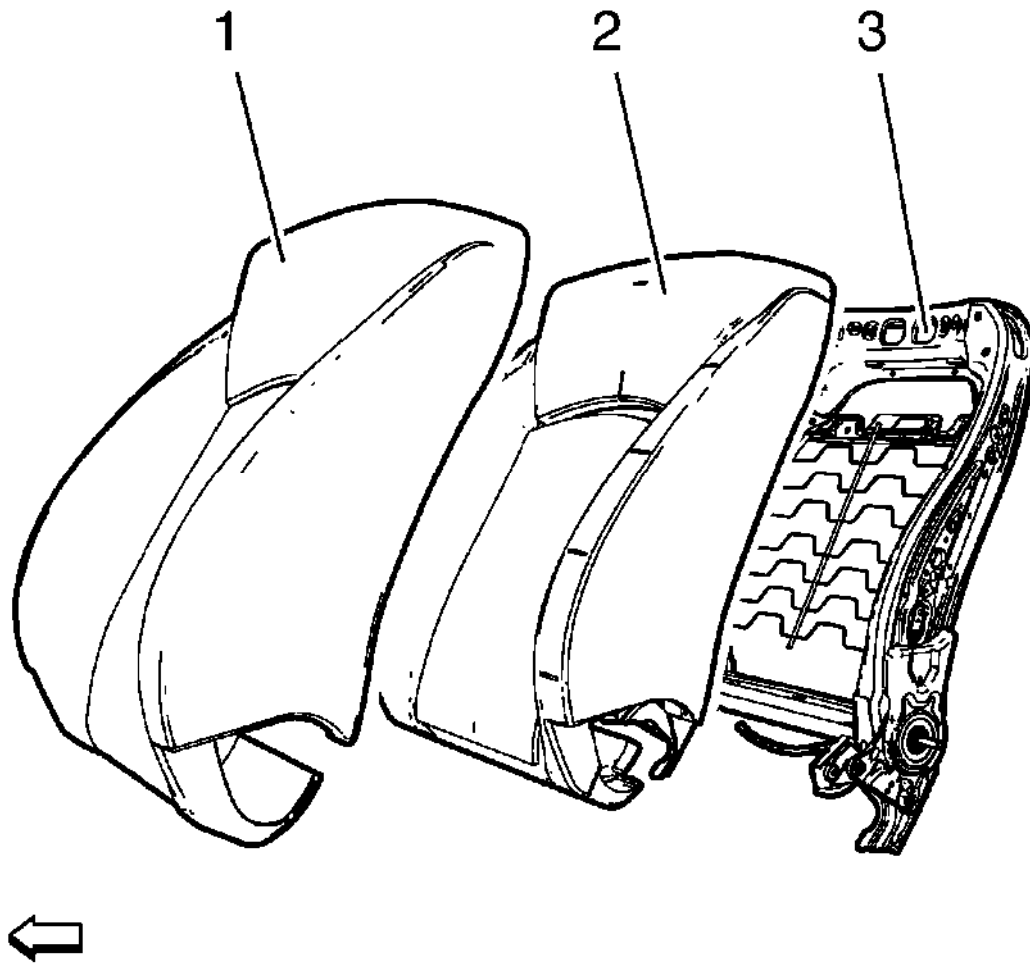


Fig. 30: Cushion Cover, Pad And Frame

Courtesy of GENERAL MOTORS COMPANY

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

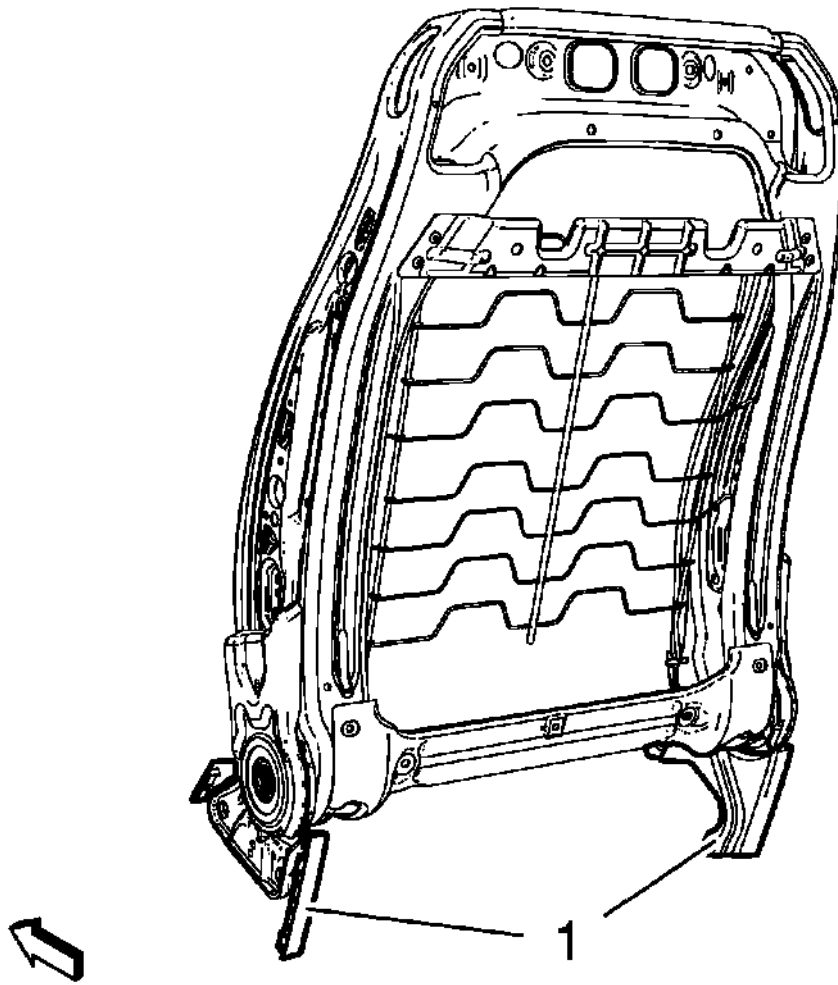


Fig. 31: Inner Seat Frame Cover

Courtesy of GENERAL MOTORS COMPANY

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

Installation Procedure

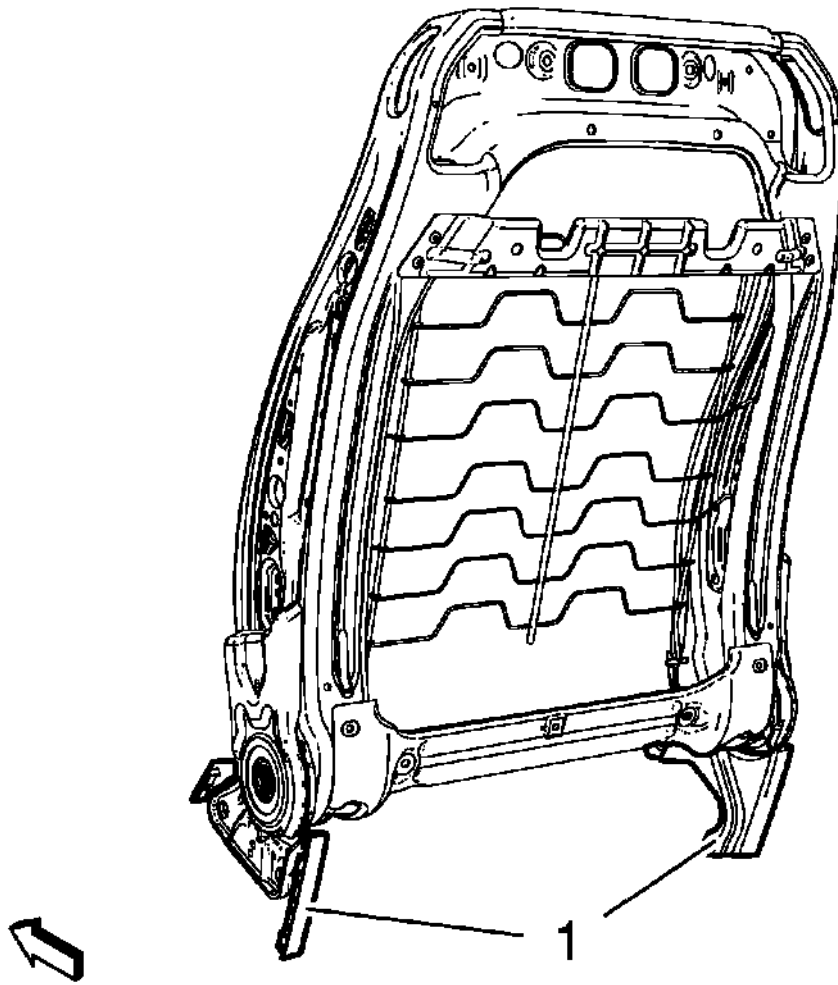


Fig. 32: Inner Seat Frame Cover

Courtesy of GENERAL MOTORS COMPANY

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

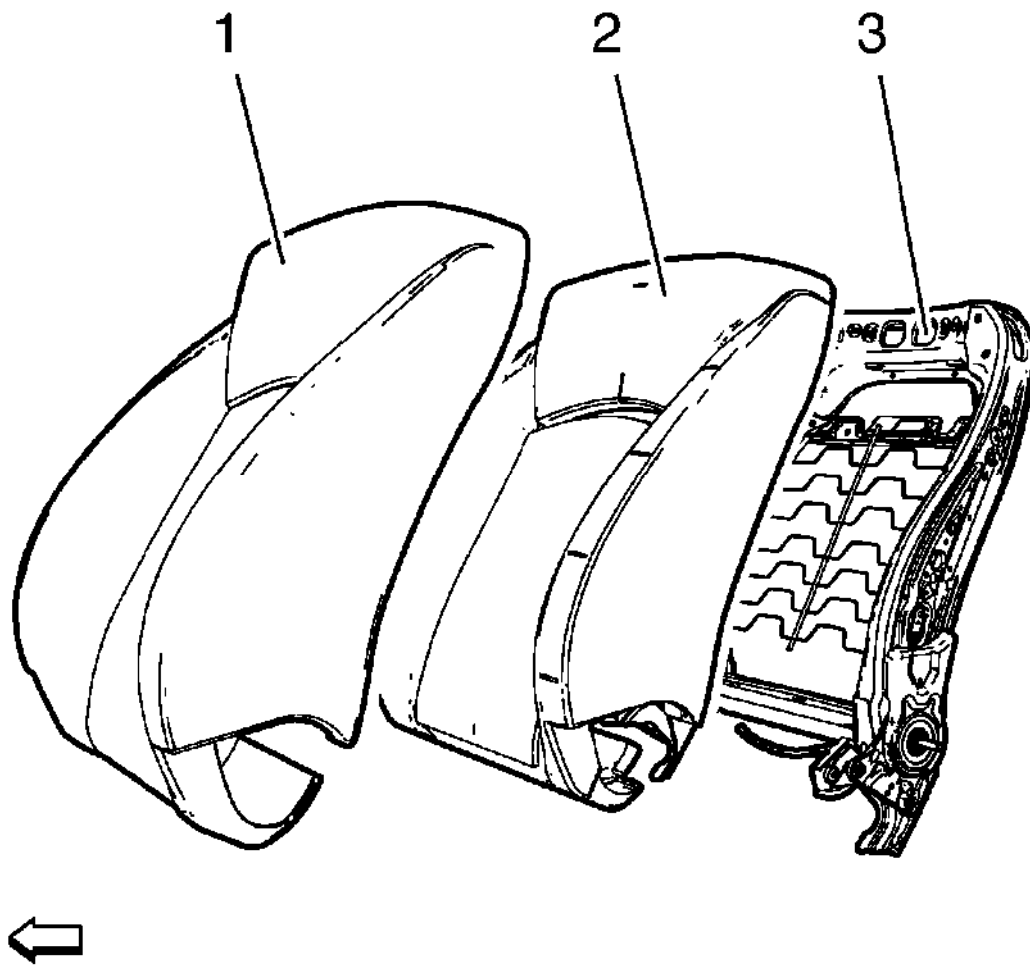


Fig. 33: Cushion Cover, Pad And Frame
Courtesy of GENERAL MOTORS COMPANY

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

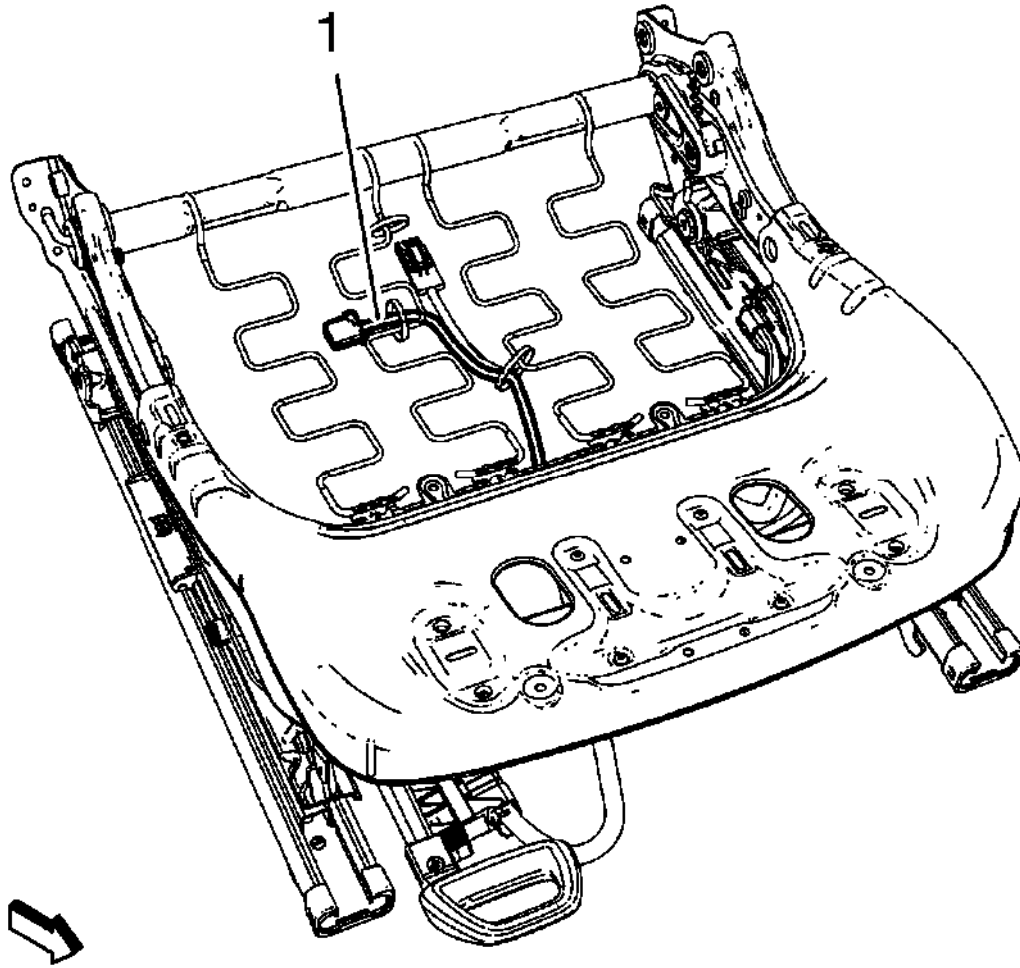


Fig. 34: Driver Seat Frame Wire Harness
Courtesy of GENERAL MOTORS COMPANY

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

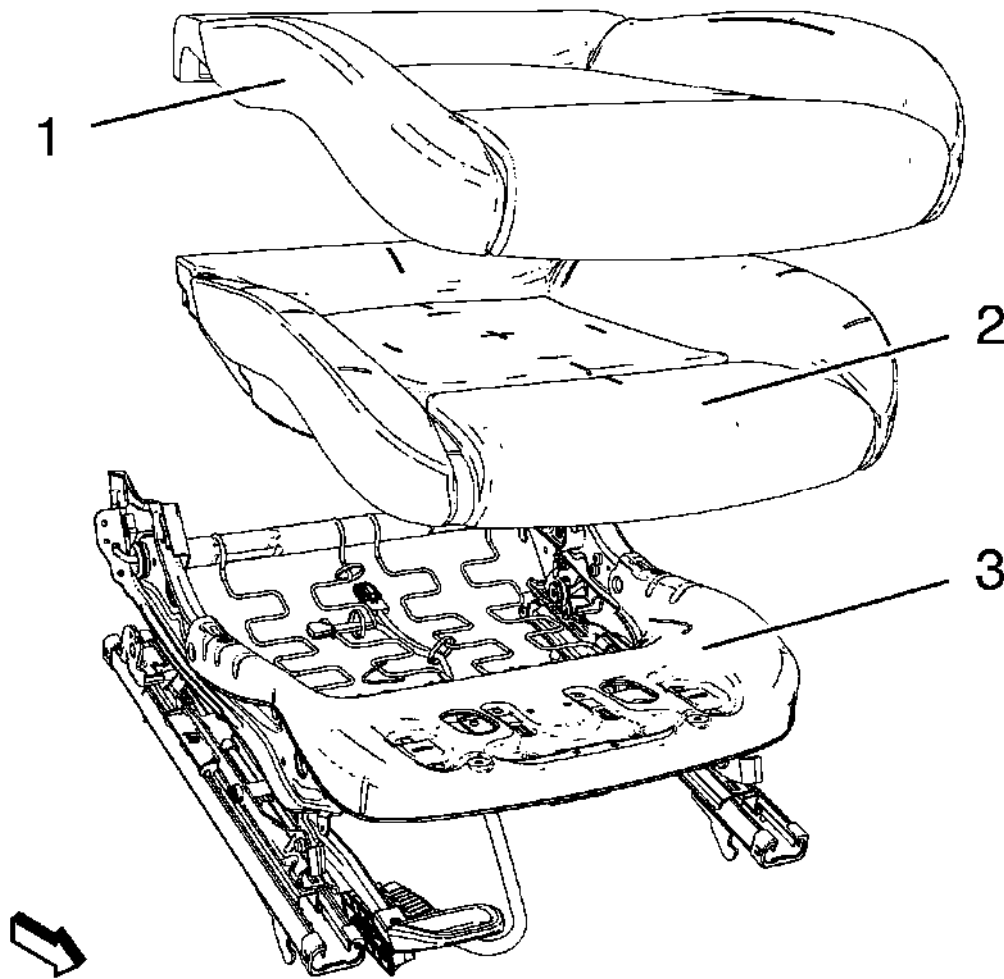


Fig. 35: Cushion Cover, Seat Frame And Pad
Courtesy of GENERAL MOTORS COMPANY

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

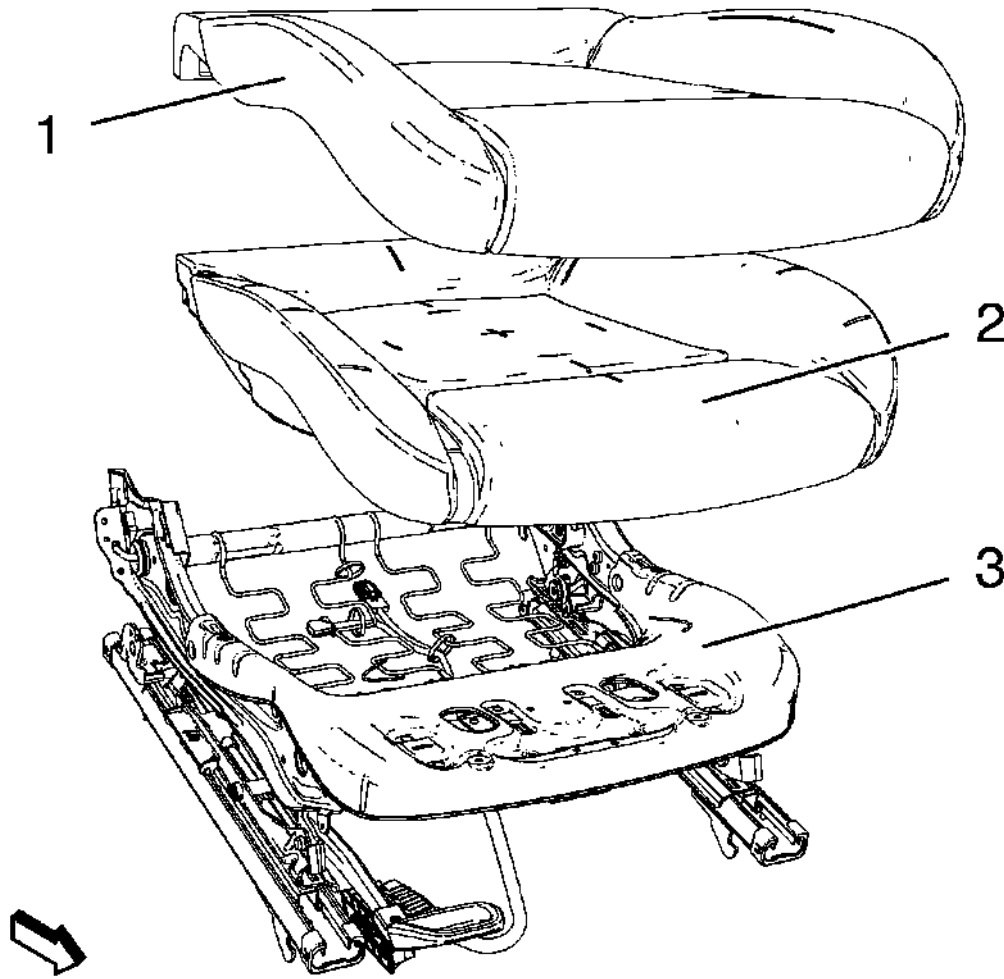


Fig. 36: Cushion Cover, Seat Frame And Pad
Courtesy of GENERAL MOTORS COMPANY

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

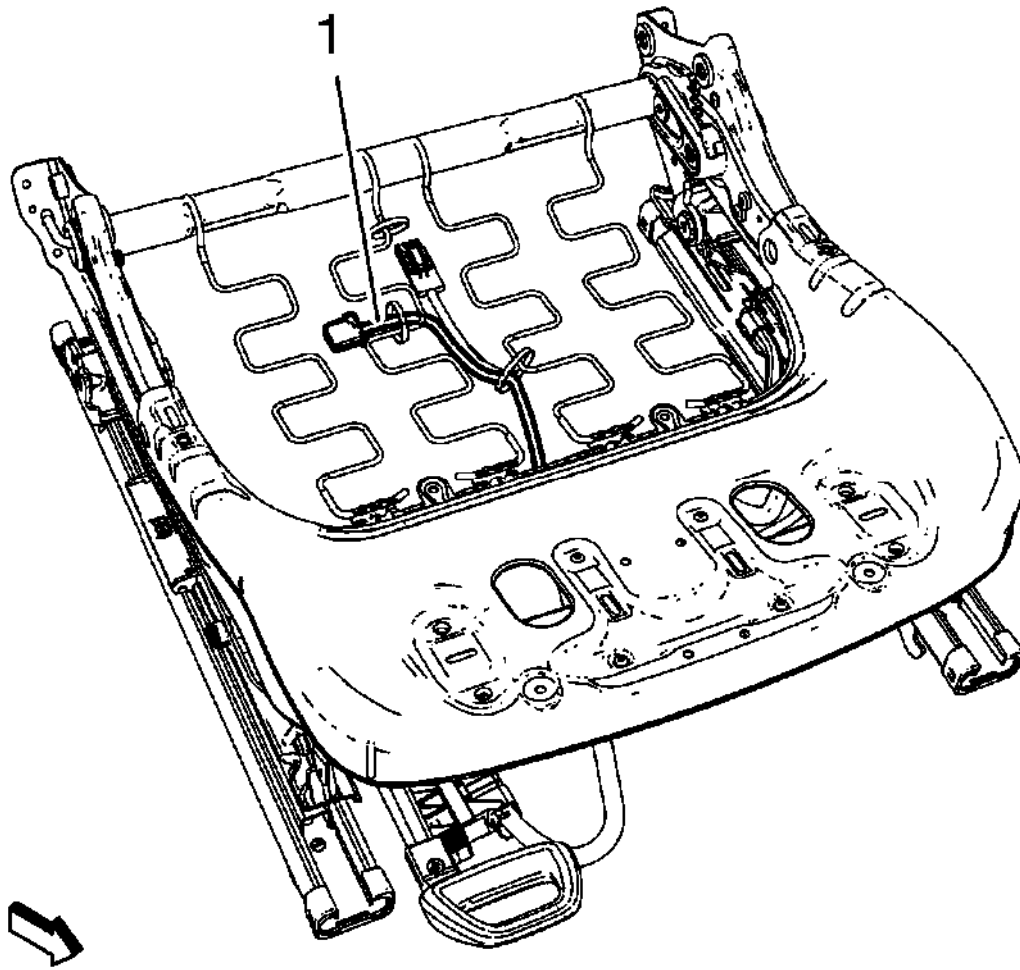


Fig. 37: Driver Seat Frame Wire Harness
Courtesy of GENERAL MOTORS COMPANY

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

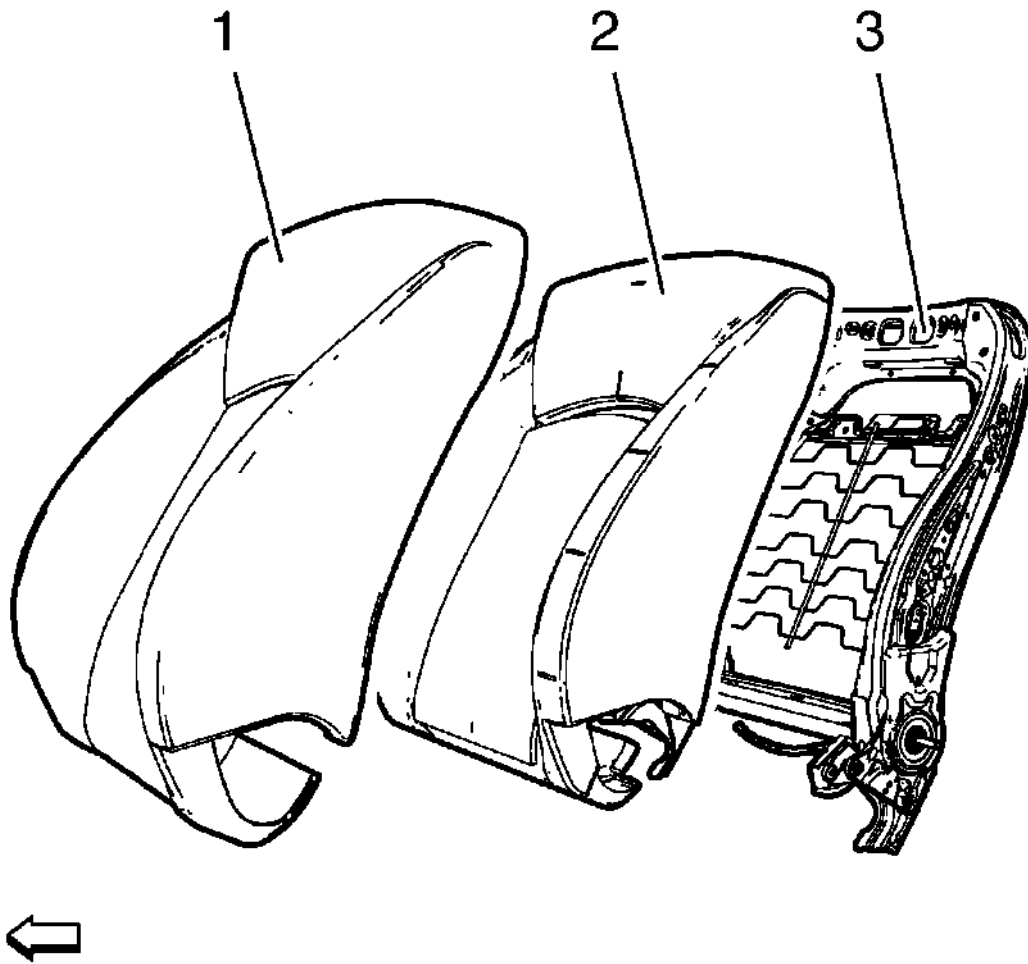


Fig. 38: Cushion Cover, Pad And Frame
Courtesy of GENERAL MOTORS COMPANY

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

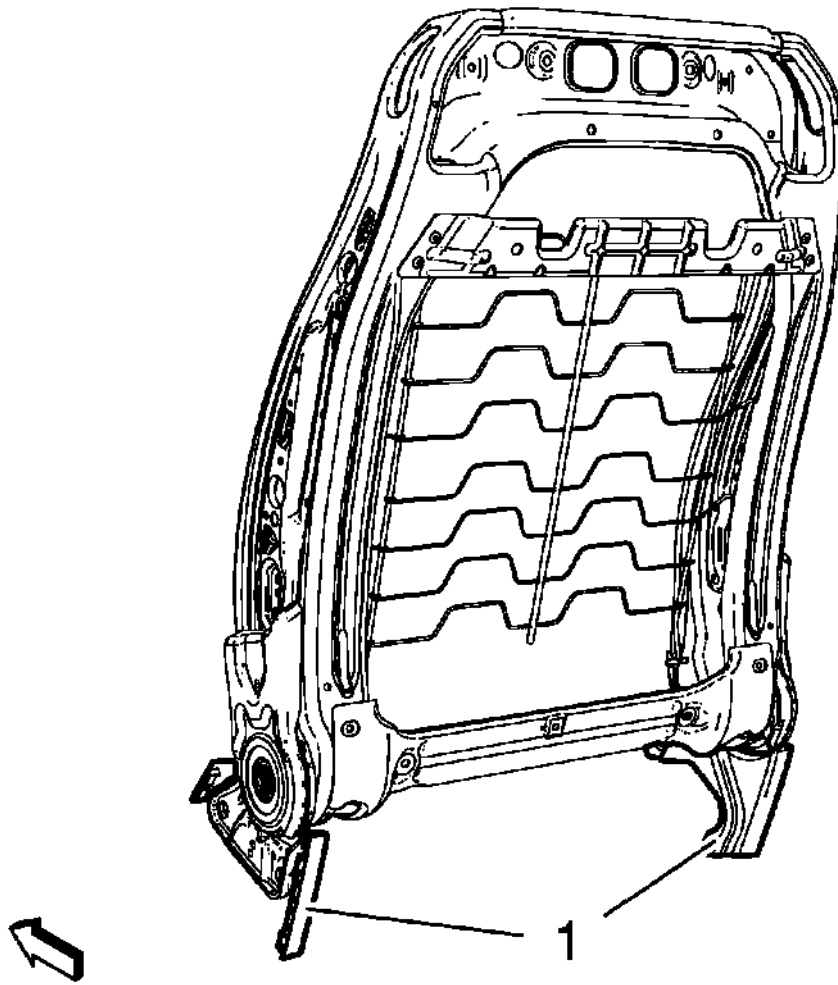


Fig. 39: Inner Seat Frame Cover

Courtesy of GENERAL MOTORS COMPANY

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

Installation Procedure

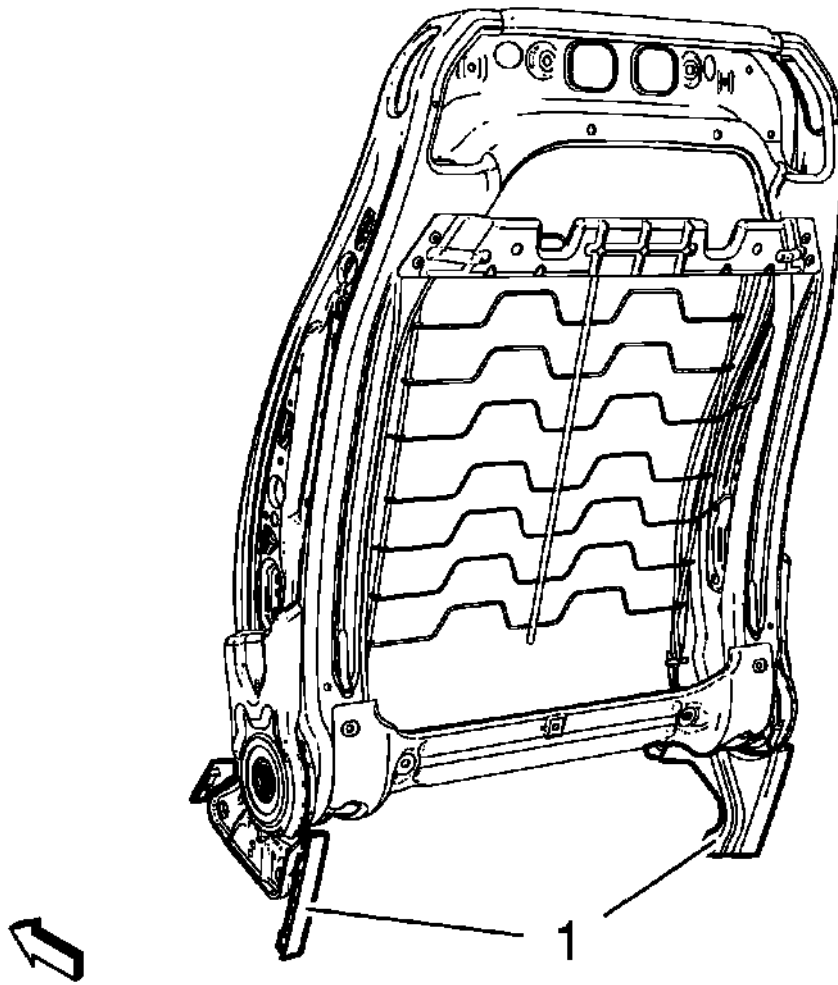


Fig. 40: Inner Seat Frame Cover

Courtesy of GENERAL MOTORS COMPANY

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

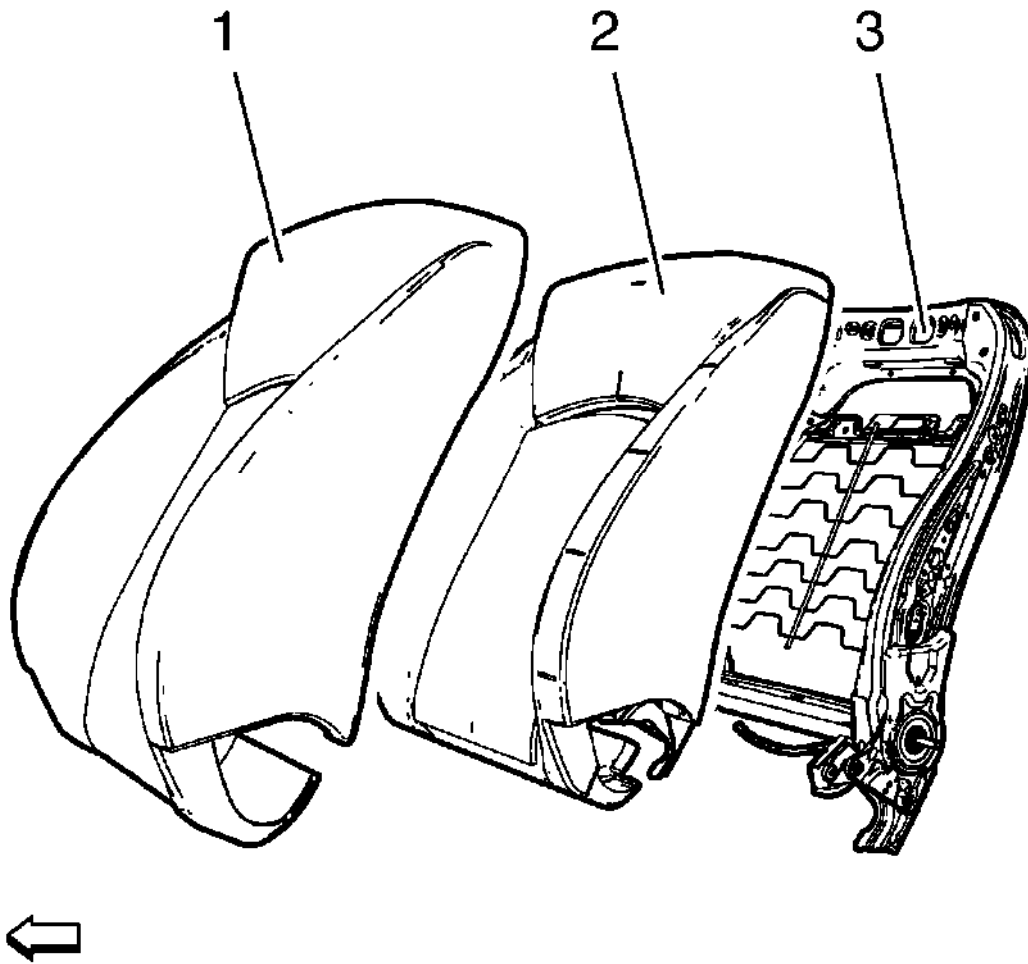


Fig. 41: Cushion Cover, Pad And Frame
Courtesy of GENERAL MOTORS COMPANY

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

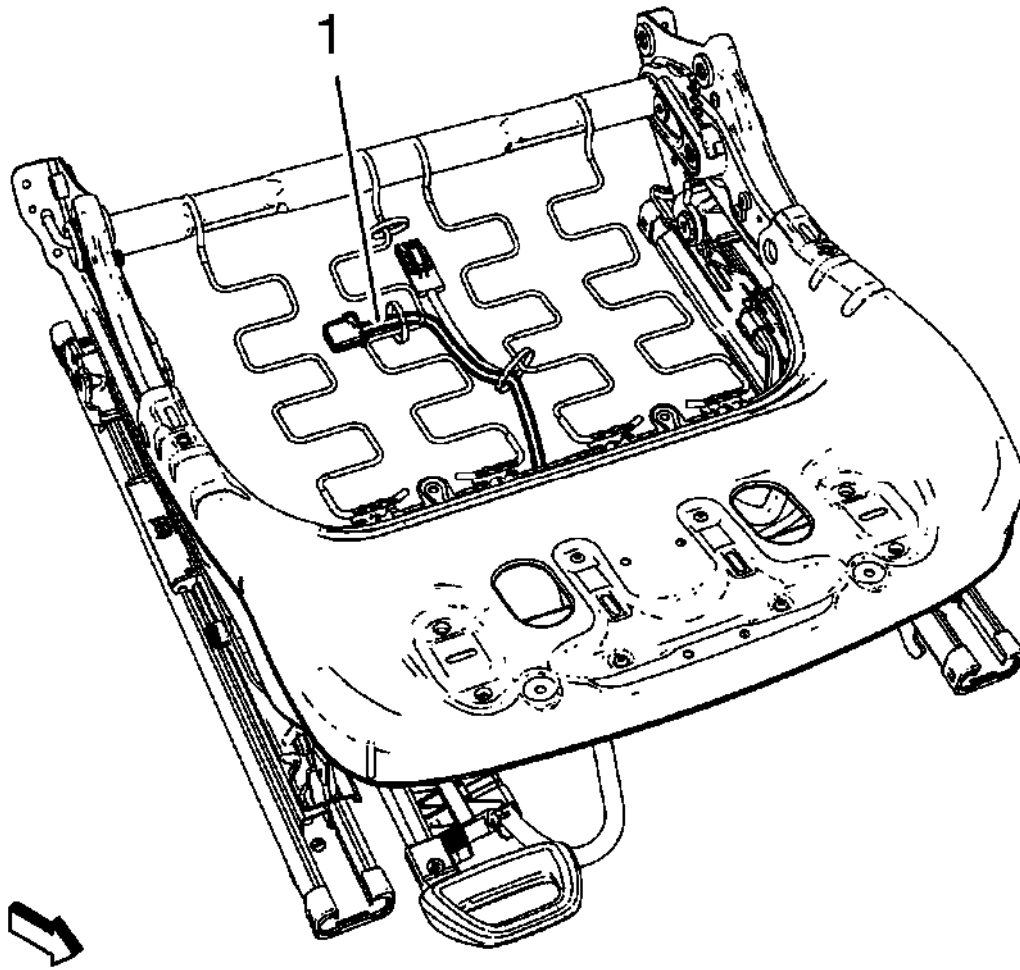


Fig. 42: Driver Seat Frame Wire Harness
Courtesy of GENERAL MOTORS COMPANY

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

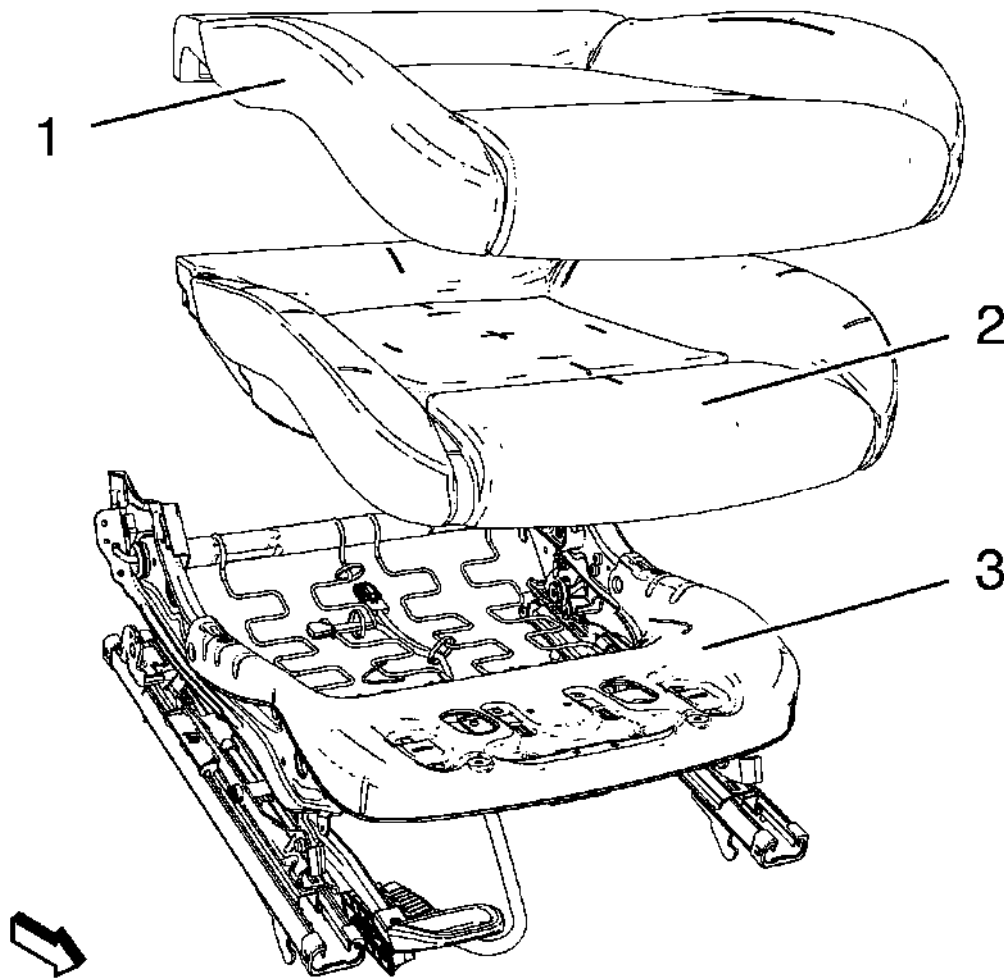


Fig. 43: Cushion Cover, Seat Frame And Pad
Courtesy of GENERAL MOTORS COMPANY

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

REAR SEAT REMOVAL AND INSTALLATION (40 PERCENT SEAT)

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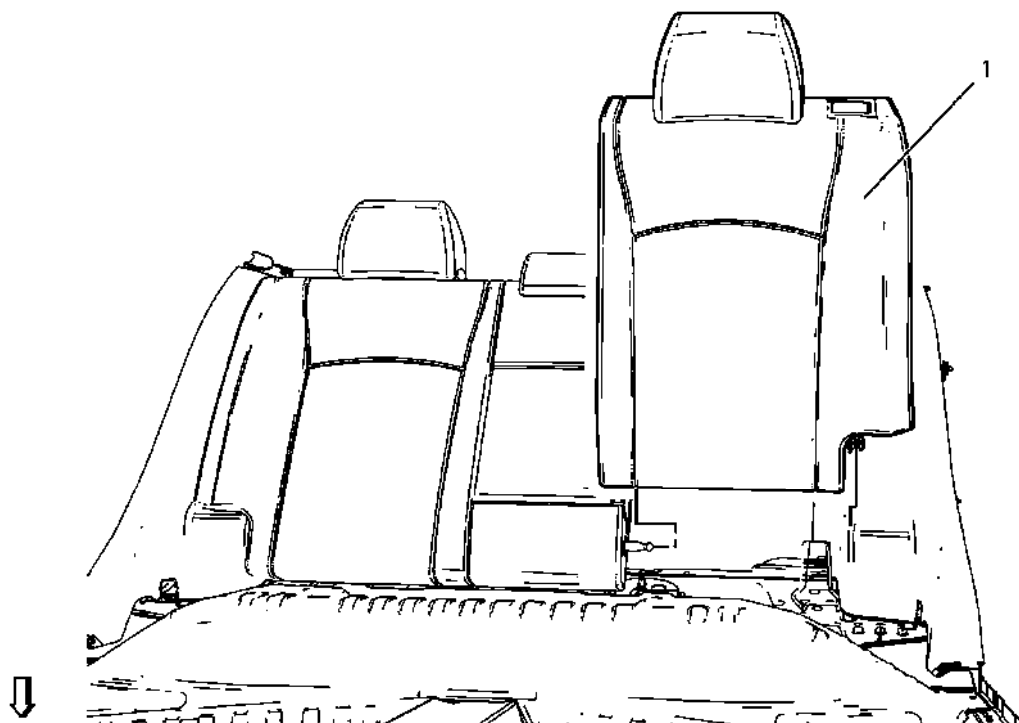


Fig. 44: Rear Seat (40 Percent Seat)

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Removal and Installation (40 Percent Seat)

Callout	Component Name
Preliminary Procedures	
Remove the rear seat cushion. Refer to <u>Rear Seat Cushion Removal and Installation.</u>	
1	Rear Seat Back - Left Side
	Procedure 1. Fold down rear seat backrest. 2. Remove rear seat backrest from both side guide.

REAR SEAT REMOVAL AND INSTALLATION (60 PERCENT SEAT)

2013 Chevrolet Cruze

2013 ACCESSORIES & EQUIPMENT Seat Hardware, Trim, and Upholstery - Cruze

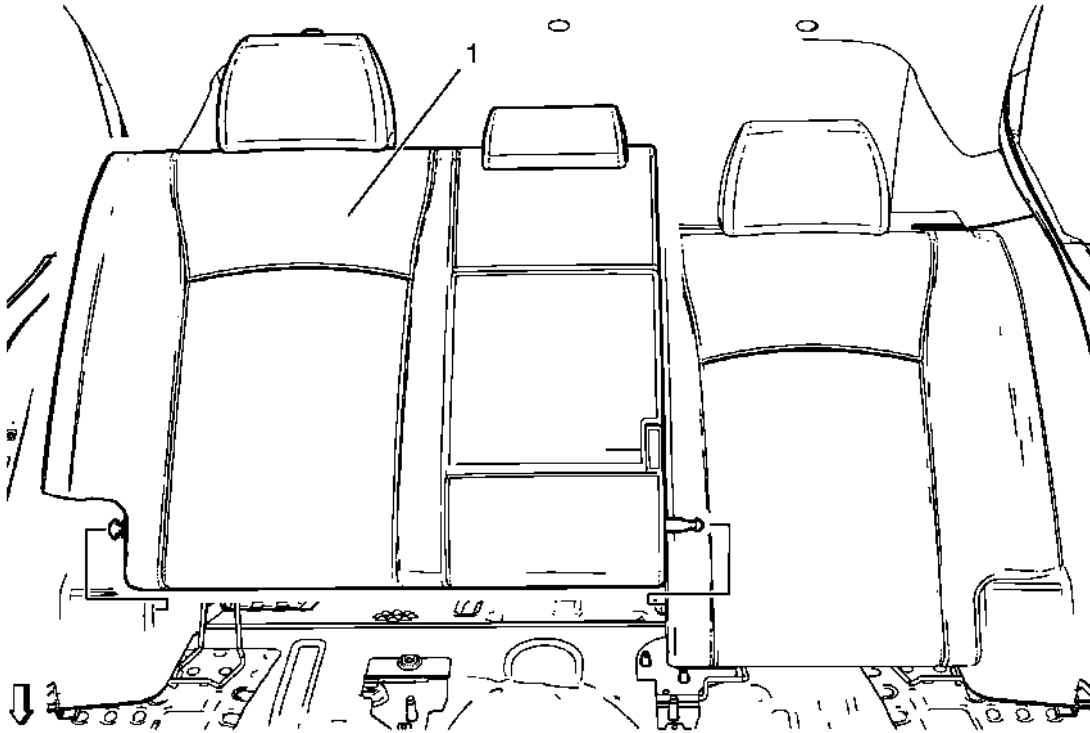


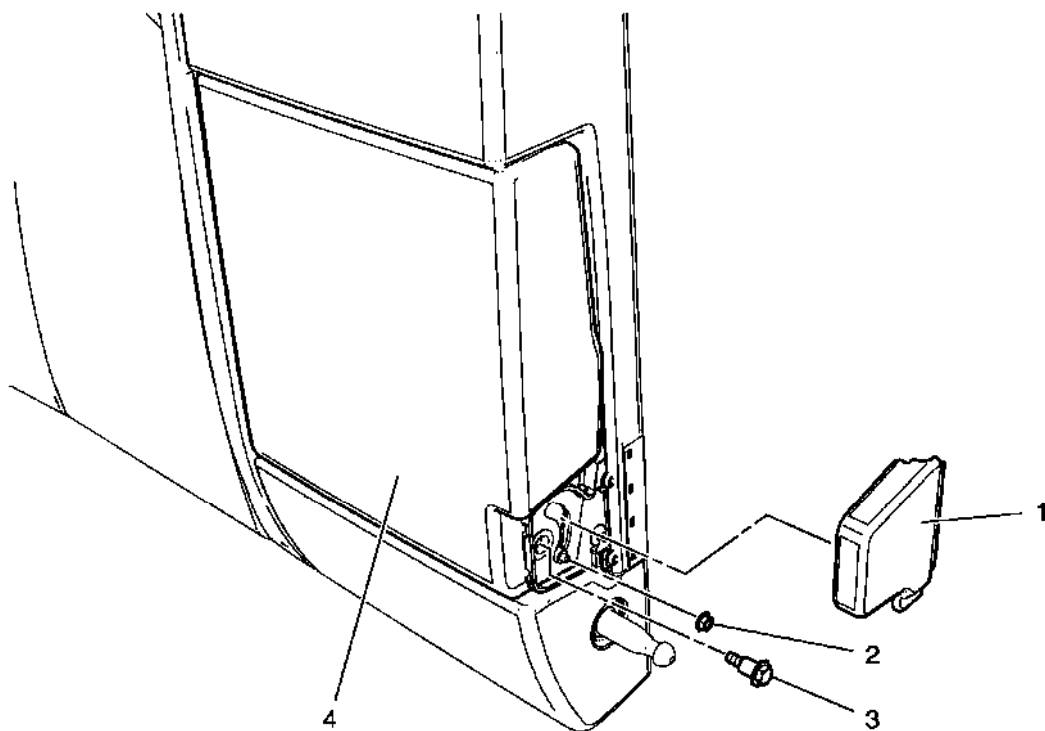
Fig. 45: Rear Seat (60 Percent Seat)

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Removal and Installation (60 Percent Seat)

Callout	Component Name
Preliminary Procedures	
1. Remove the right rear seat back cushion bolster. Refer to <u>Rear Seat Back Bolster Replacement</u>. 2. Remove the rear seat belt buckle. Refer to <u>Rear Seat Buckle Side Belt Replacement</u>.	
1	Rear Seat Back- Right Side Procedure 1. Fold down the rear seat back. 2. Lift up on the outer side of the seat back to disengage from the outer guide. 3. Pull the seat back outboard to disengage from the inner guide.

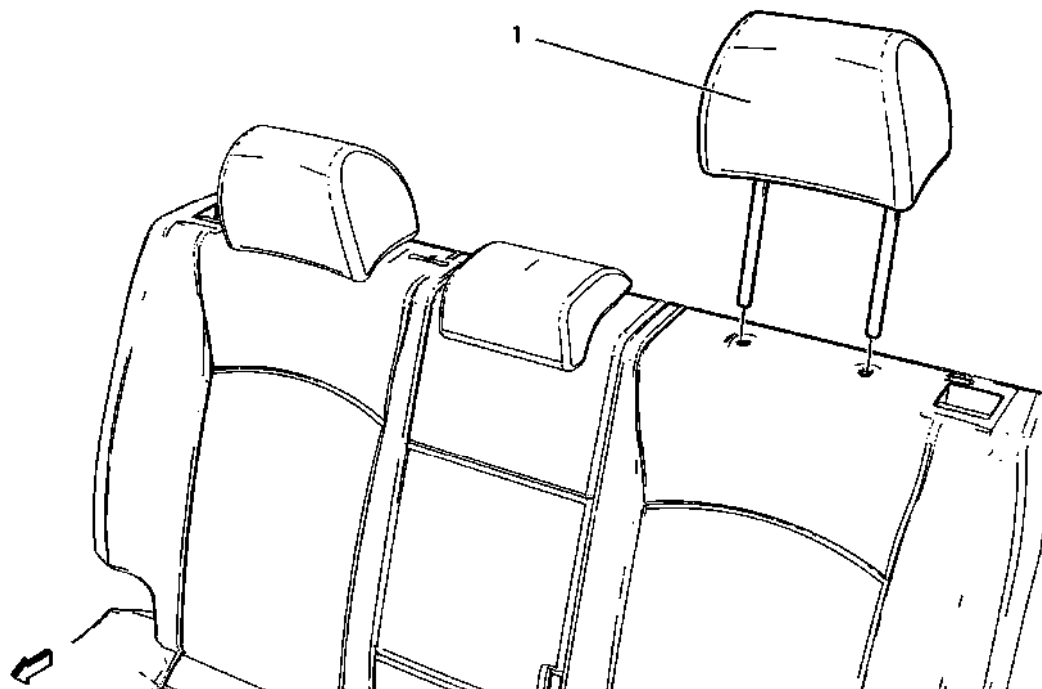
REAR SEAT ARMREST REPLACEMENT

**Fig. 46: Rear Seat Armrest**

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Armrest Replacement

Callout	Component Name
Preliminary Procedures Remove the rear seat back - right side. Refer to Rear Seat Removal and Installation (40 Percent Seat) , Rear Seat Removal and Installation (60 Percent Seat) .	
1	Rear Seat Armrest Hinge Cover Procedure Release four tabs and carefully slide the cover forward.
2	Rear Seat Armrest Hinge Nut CAUTION: Refer to <u>Fastener Caution</u> . Tighten 4.5 N.m (40 lb in)
3	Rear Seat Armrest Hinge Bolt Tighten 9 N.m (80 lb in)
4	Rear Seat Armrest Procedure Position the stud so that it could pass the armrest bracket.

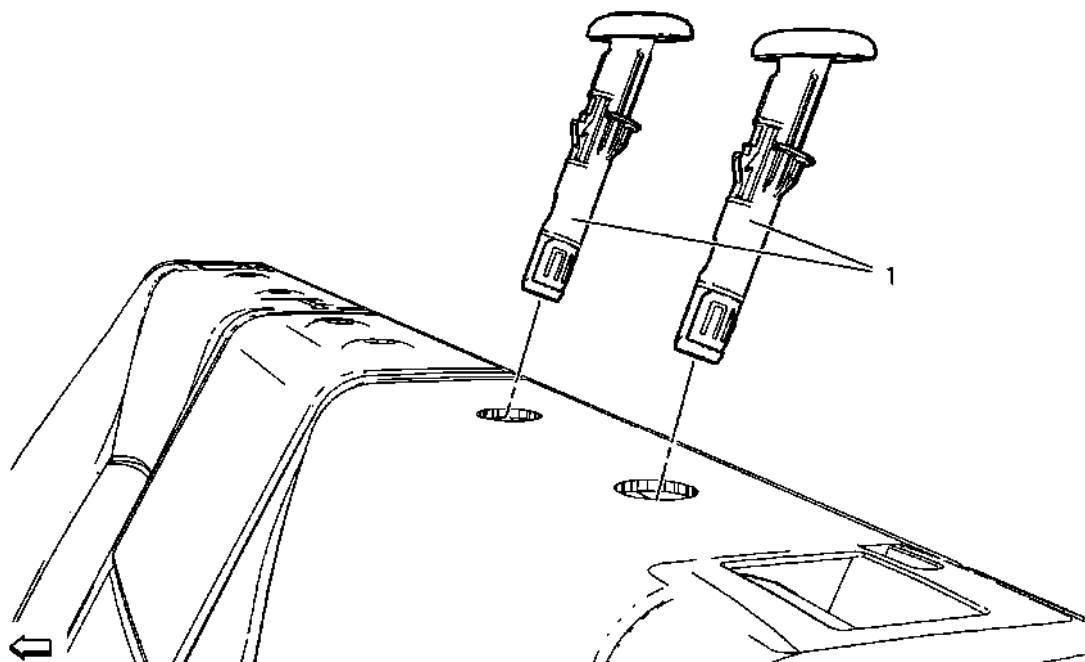
REAR SEAT HEAD RESTRAINT REPLACEMENT**Fig. 47: Rear Seat Head Restraint**

Courtesy of GENERAL MOTORS COMPANY

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

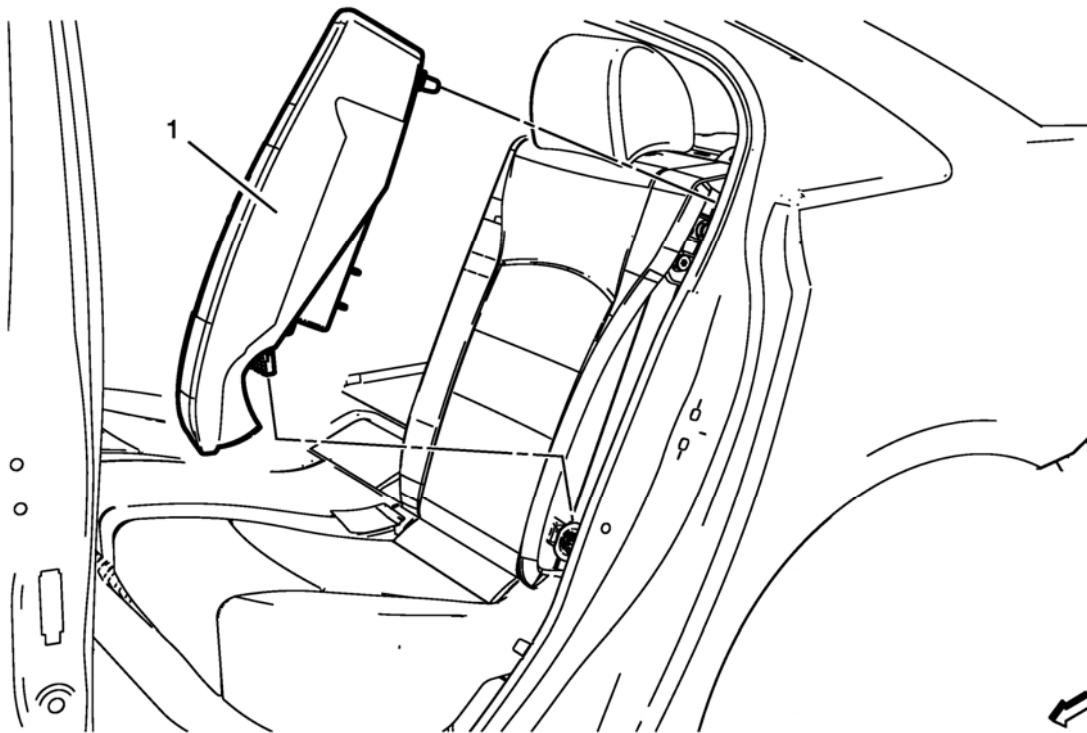
**Fig. 48: Rear Seat Head Restraint Guide**

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Head Restraint Guide Replacement

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

REAR SEAT BACK BOLSTER REPLACEMENT

**Fig. 49: Rear Seat Back Cushion Bolster**

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Bolster Replacement

Callout	Component Name
Preliminary Procedures Disable the SIR system. Refer to <u>SIR Disabling and Enabling</u> .	
1	Rear Seat Back Cushion Bolster WARNING: Refer to <u>SIR Warning</u> . WARNING: Do not repair or replace the seat stitching or seams in the seat back trim cover with an internal mounted seat side airbag module. Replace the complete seat back trim cover from the OEM. Non-OEM seat stitching may cause improper airbag deployment which could result in personal injury. Procedure 1. Pull bolster very hard from top to disengage retainers. 2. Replace all damaged retainers and tap back holes in body sheet metal, if necessary. 3. Disconnect electrical connector.

- | | |
|--|--|
| | <ol style="list-style-type: none"> 4. Remove rear seat back cushion bolster. 5. Remove the rear seat side inflatable module, if equipped. Refer to <u>Rear Seat Outboard Seat Back Airbag Replacement</u> . |
|--|--|

REAR SEAT BACK SIDE CUSHION COVER REPLACEMENT

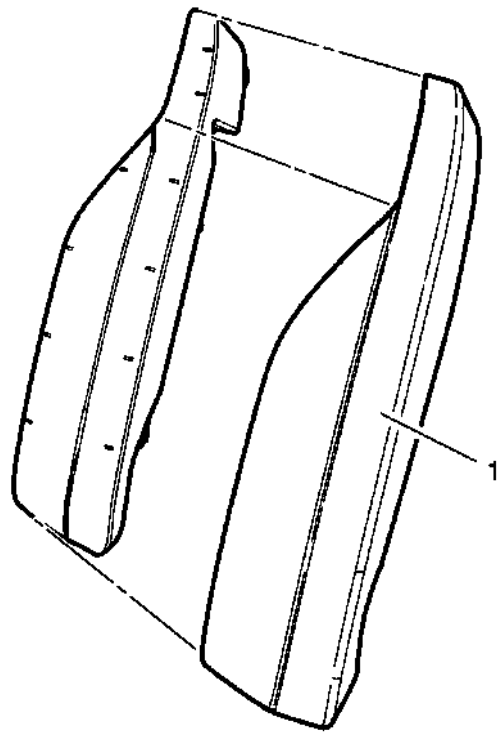


Fig. 50: Rear Seat Back Side Cushion Cover
 Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Side Cushion Cover Replacement

Callout	Component Name
Preliminary Procedures WARNING: Do not repair or replace the seat stitching or seams in the seat back trim cover with an internal mounted seat side airbag module. Replace the complete seat back trim cover from the OEM. Non-OEM seat stitching may cause improper airbag deployment which could result in personal injury. Remove the rear seat side inflatable restraint module. Refer to <u>Rear Seat Outboard Seat Back Airbag Replacement</u> .	
	Rear Seat Back Side Cushion Cover
	Procedure

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1

1. Loosen the rear seat back side cushion cover.
2. Remove the hog rings.
3. Remove the rear seat back side cushion cover.
4. Attach the rear seat back side cushion cover and install the hog rings.
5. Install the rear seat back side cushion cover.

REAR SEAT BACK CUSHION PIVOT SUPPORT REPLACEMENT

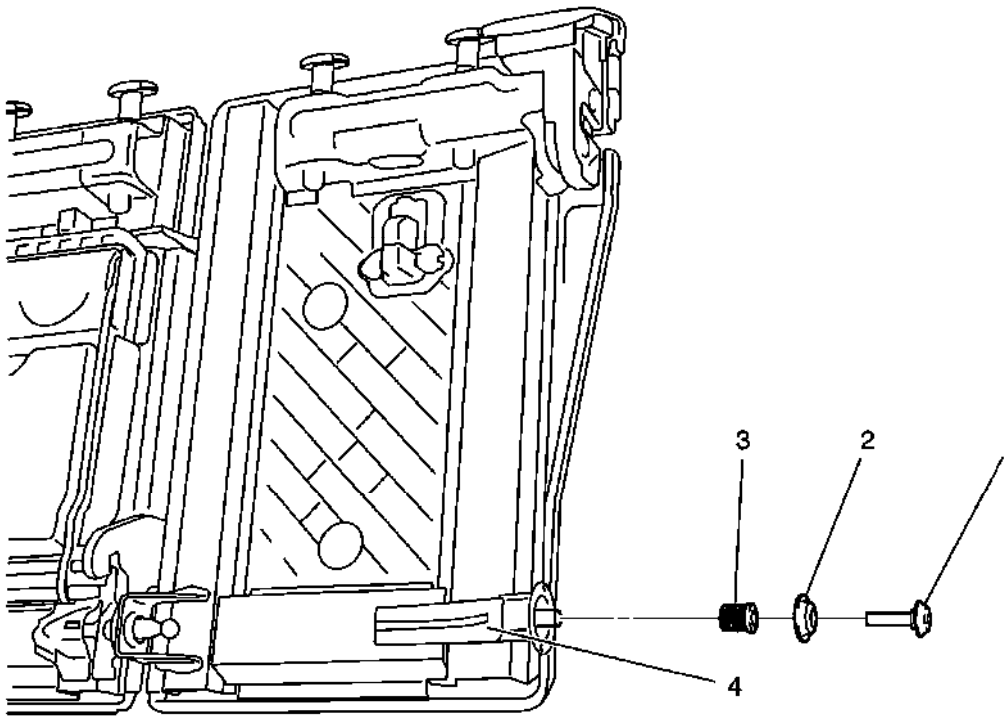


Fig. 51: Rear Seat Back Cushion Pivot Support & Components

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Cushion Pivot Support Replacement

Callout	Component Name
Preliminary Procedures Remove the rear seat back. Refer to <u>Rear Seat Removal and Installation (40 Percent Seat)</u> , <u>Rear Seat Removal and Installation (60 Percent Seat)</u> .	
1	Rear Seat Back Outer Pivot Bolt CAUTION: Refer to <u>Fastener Caution</u> .

	Tighten 23 N.m (17 lb ft)
2	Rear Seat Back Cushion Pivot Bolt Bushing
3	Rear Seat Back Cushion Outer Pivot Bolt Spring
4	Rear Seat Back Cushion Pivot Support

REAR SEAT CUSHION COVER AND PAD REPLACEMENT

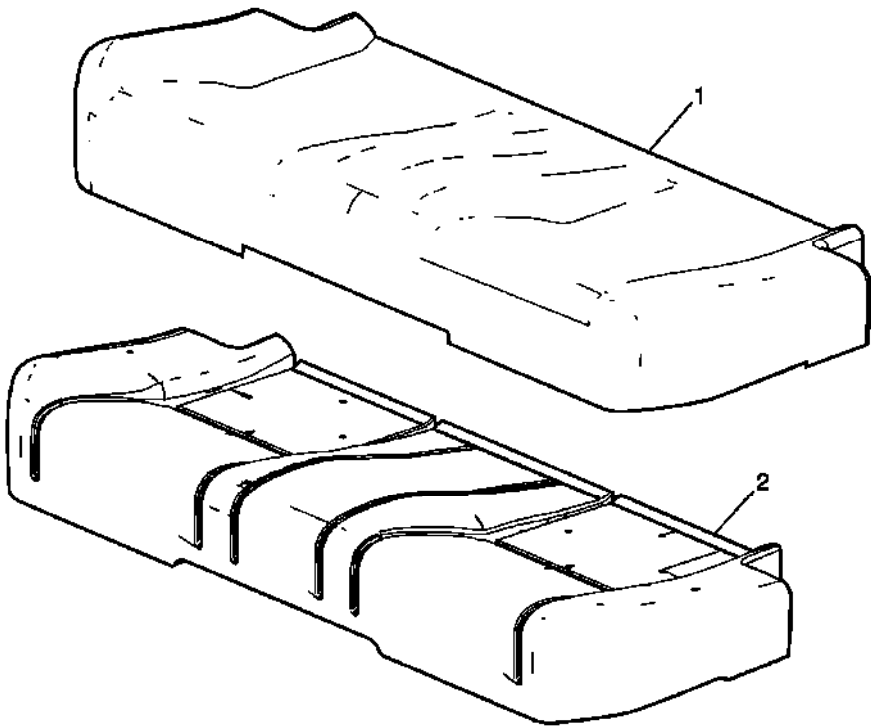
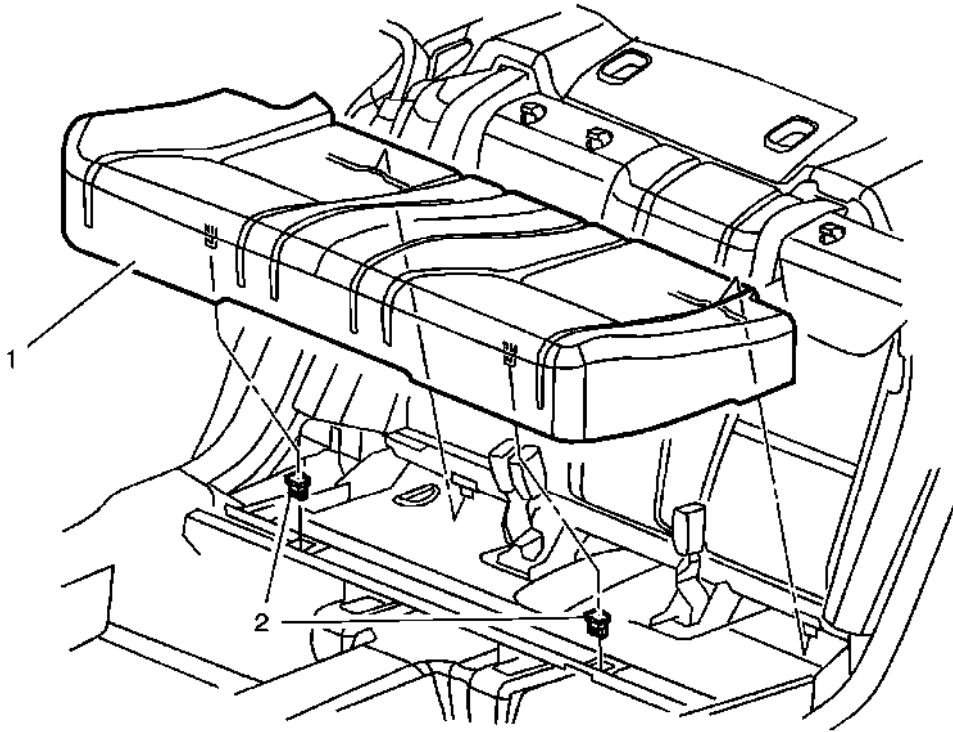


Fig. 52: Identifying Rear Seat Cushion Cover & Pad
 Courtesy of GENERAL MOTORS COMPANY

Rear Seat Cushion Cover and Pad Replacement

Callout	Component Name
Preliminary Procedures Remove the rear seat cushion. Refer to <u>Rear Seat Cushion Removal and Installation.</u>	
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 REMOVAL AND INSTALLATION

**Fig. 53: Rear Seat Cushion**

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Cushion Removal and Installation

Callout	Component Name
1	Rear Seat Cushion Procedure 1. Pull up on the front of the seat cushion to disengage the retainers, and lift out of the vehicle. A high amount of upward force will be required. 2. After removal of the retainers, the sheet metal will be slightly deformed outward. Use a small hammer and pound the sheet metal back to its original, flat appearance. 3. When re-installing the seat, the hooks at the rear of the seat must go over and behind the mushroom clips at the rear of the floor. 4. When installing new plastic retainers on the front of the seat, ONLY seat the retainer to the first click, otherwise the insertion force into the sheet metal will be greatly increased.
2	Seat Cushion Retainer (Qty: 2)

REAR SEAT BACK LATCH REPLACEMENT (40 PERCENT SEAT)

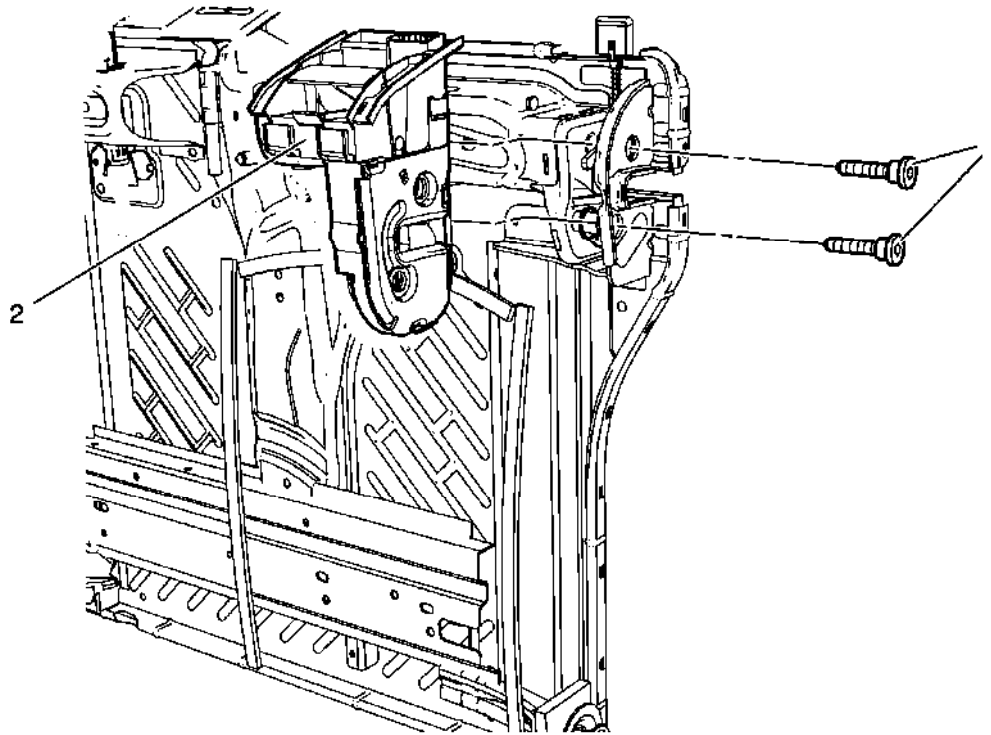


Fig. 54: Rear Seat Back Latch (40 Percent Seat)
Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Latch Replacement (40 Percent Seat)

Callout	Component Name
Preliminary Procedures 1. Remove the rear seat - left side. Refer to <u>Rear Seat Removal and Installation (40 Percent Seat)</u>, <u>Rear Seat Removal and Installation (60 Percent Seat)</u>. 2. Remove the rear seat back cushion cover and pad - left side. Refer to <u>Rear Seat Back Cushion Cover and Pad Replacement - Left Side</u>.	
1	Rear Seat Back Latch Bolt (Qty: 2) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 45 N.m (33 lb ft)
2	Rear Seat Back Latch

REAR SEAT BACK LATCH REPLACEMENT (60 PERCENT SEAT)

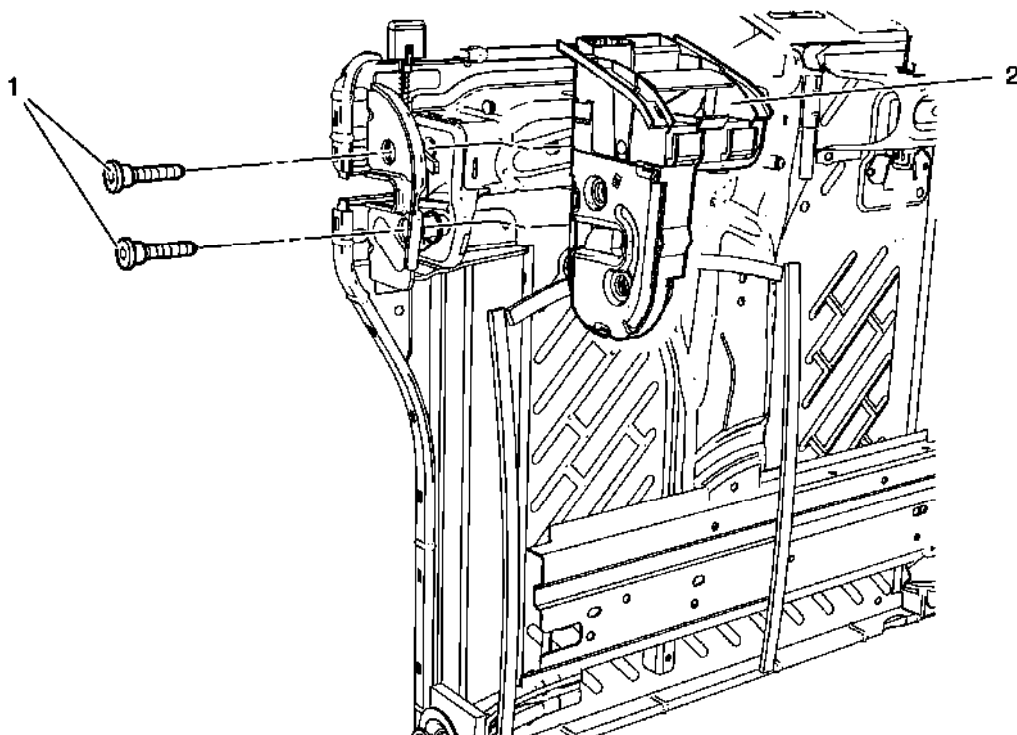


Fig. 55: Rear Seat Back Latch (60 Percent Seat)

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Latch Replacement (60 Percent Seat)

Callout	Component Name
Preliminary Procedures 1. Remove the rear seat - right side. Refer to <u>Rear Seat Removal and Installation (40 Percent Seat)</u>, <u>Rear Seat Removal and Installation (60 Percent Seat)</u>. 2. Remove the rear seat armrest. Refer to <u>Rear Seat Armrest Replacement</u>. 3. Remove the rear seat back cushion cover and pad - right side. Refer to <u>Rear Seat Back Cushion Cover and Pad Replacement - Right Side</u>.	
1	Rear Seat Back Latch Bolt (Qty: 2) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 45 N.m (33 lb ft)
2	Rear Seat Back Latch

REAR SEAT BELT OPENING COVER REPLACEMENT

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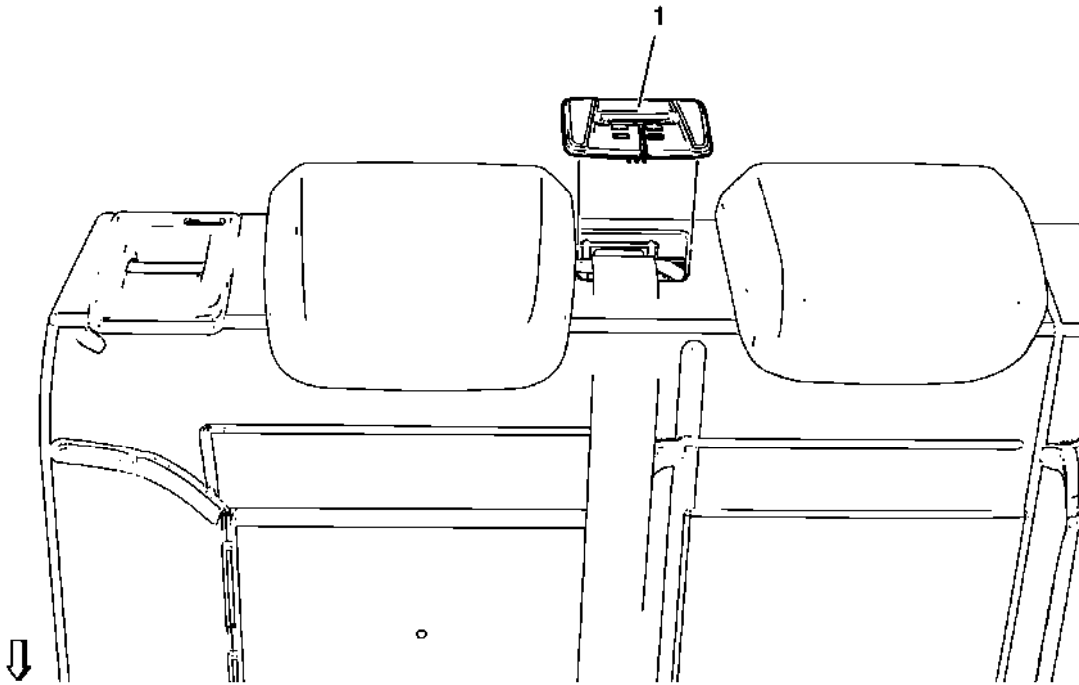


Fig. 56: Rear Seat Shoulder Belt Opening Cover
Courtesy of GENERAL MOTORS COMPANY

Rear Seat Belt Opening Cover Replacement

Callout	Component Name
1	Rear Seat Shoulder Belt Opening Cover

REAR SEAT BACK CUSHION PANEL REPLACEMENT (40 PERCENT SEAT)

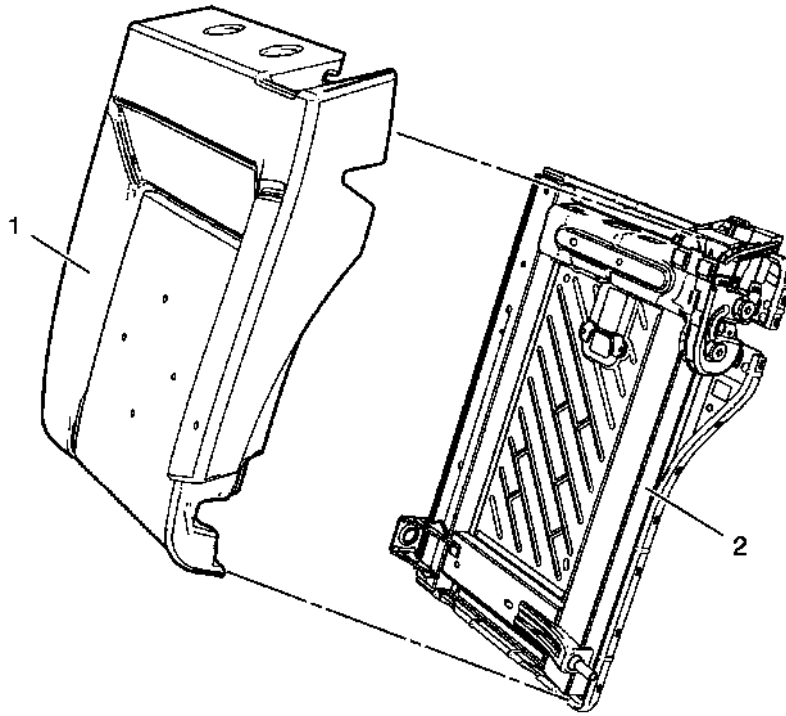


Fig. 57: Rear Seat Back Cushion Panel, Cover And Pad (40 Percent Seat)
Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Cushion Panel Replacement (40 Percent Seat)

Callout	Component Name
Preliminary Procedures	
1. Remove the rear seat back.	
2. Remove the rear seat back cushion latch release knob bezel. Refer to <u>Rear Seat Back Cushion Latch Release Knob Bezel Replacement (60 Percent Seat)</u> , <u>Rear Seat Back Cushion Latch Release Knob Bezel Replacement (40 Percent Seat)</u> .	
3. Remove the rear seat head restraint guide. Refer to <u>Rear Seat Head Restraint Guide Replacement</u> .	
4. Remove the rear seat back cushion pivot support. Refer to <u>Rear Seat Back Cushion Pivot Support Replacement</u> .	
1	Rear Seat Back Cushion Cover and Pad
2	Rear Seat Back Cushion Panel

REAR SEAT BACK CUSHION PANEL REPLACEMENT (60 PERCENT SEAT)

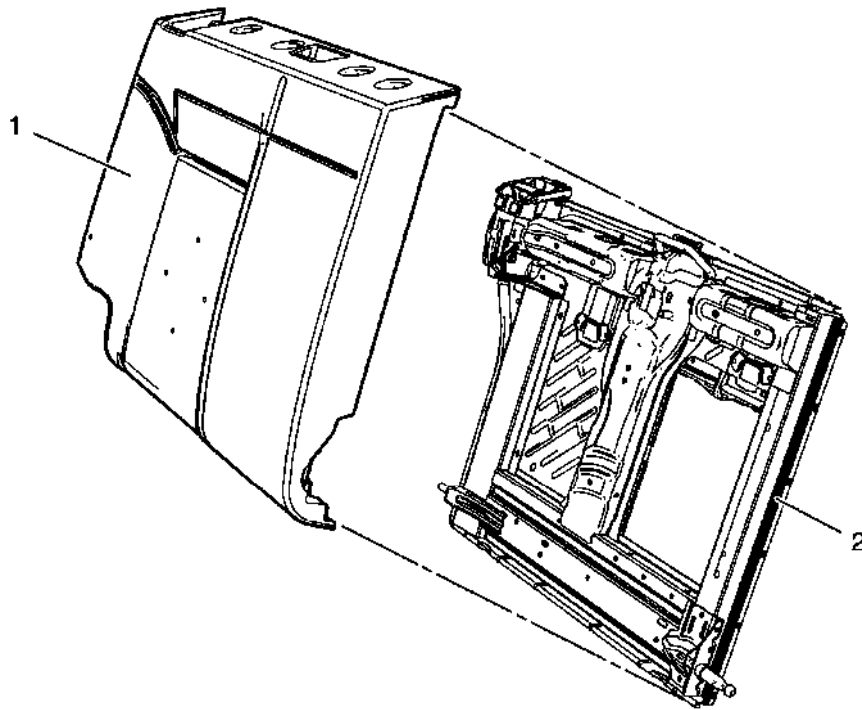


Fig. 58: Rear Seat Back Cushion Panel, Cover And Pad (60 Percent Seat)
Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Cushion Panel Replacement (60 Percent Seat)

Callout	Component Name
Preliminary Procedures	
1. Remove the rear seat back.	
2. Remove the rear seat back cushion latch release knob bezel. Refer to <u>Rear Seat Back Cushion Latch Release Knob Bezel Replacement (60 Percent Seat)</u> , <u>Rear Seat Back Cushion Latch Release Knob Bezel Replacement (40 Percent Seat)</u> .	
3. Remove the rear seat shoulder belt opening cover. Refer to <u>Rear Seat Belt Opening Cover Replacement</u> .	
4. Remove the rear seat head restraint guides. Refer to <u>Rear Seat Head Restraint Guide Replacement</u> .	
1	Rear Seat Back Cushion Cover and Pad
2	Rear Seat Back Cushion Panel

REAR SEAT BACK CUSHION COVER AND PAD REPLACEMENT - LEFT SIDE

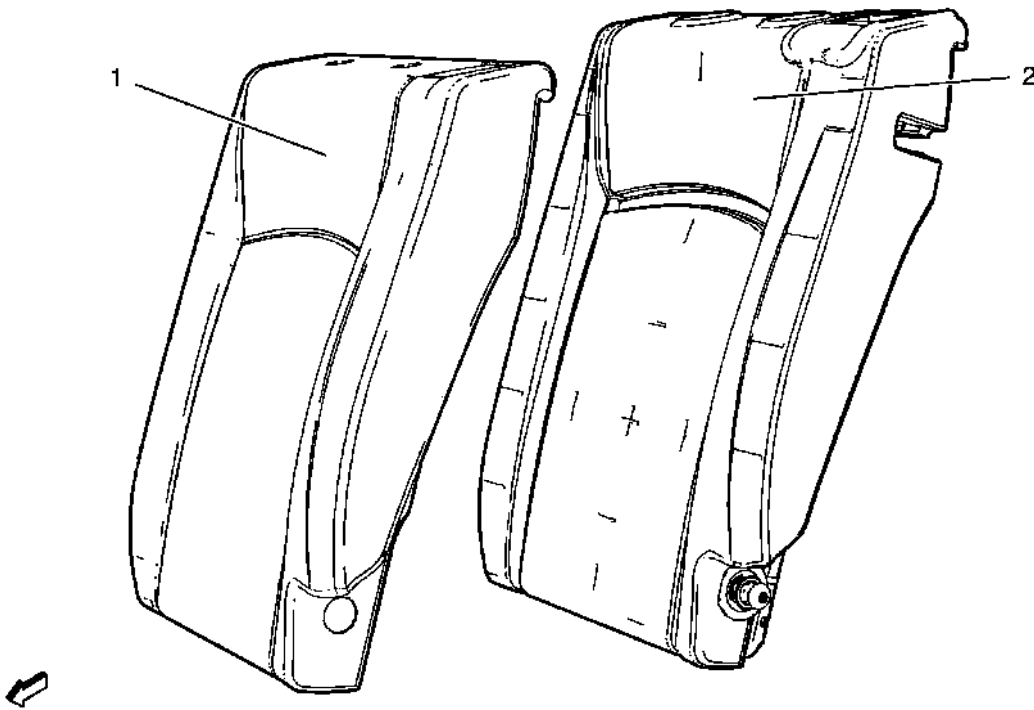


Fig. 59: Rear Seat Back Cushion Cover And Pad - Left Side
Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Cushion Cover and Pad Replacement - Left Side

Callout	Component Name
Preliminary Procedures Remove the rear seat - left side. Refer to <u>Rear Seat Removal and Installation (40 Percent Seat)</u> , <u>Rear Seat Removal and Installation (60 Percent Seat)</u> .	
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

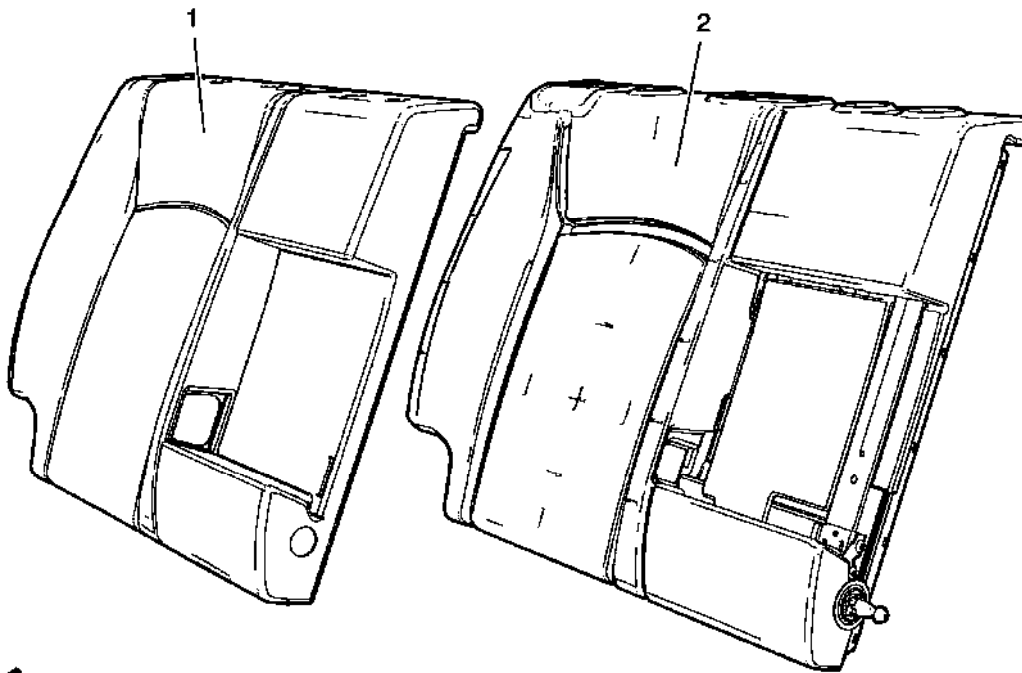


Fig. 60: Rear Seat Back Cushion Cover And Pad - Right Side
 Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Cushion Cover and Pad Replacement - Right Side

Callout	Component Name
Preliminary Procedures	
1. Remove the rear seat back - right side. Refer to <u>Rear Seat Removal and Installation (40 Percent Seat)</u>, <u>Rear Seat Removal and Installation (60 Percent Seat)</u>. 2. Remove the rear seat armrest. Refer to <u>Rear Seat Armrest Replacement</u>. 3. Remove the rear seat belt opening cover. Refer to <u>Rear Seat Belt Opening Cover Replacement</u> 4. Remove the rear seat head restraint guides. Refer to <u>Rear Seat Head Restraint Guide Replacement</u> 5. Remove the right rear seat back cushion latch release knob bezel. Refer to <u>Rear Seat Back Cushion Latch Release Knob Bezel Replacement (60 Percent Seat)</u>, <u>Rear Seat Back Cushion Latch Release Knob Bezel Replacement (40 Percent Seat)</u> 6. Remove the rear seat back cushion pivot support. Refer to <u>Rear Seat Back Cushion Pivot Support Replacement</u>	
1	Rear Seat Back Cushion Cover Procedure 1. Remove the J-channels from the seat back cover. 2. Remove seat back cushion cover from Velcro.

2

Rear Seat Back Cushion Pad

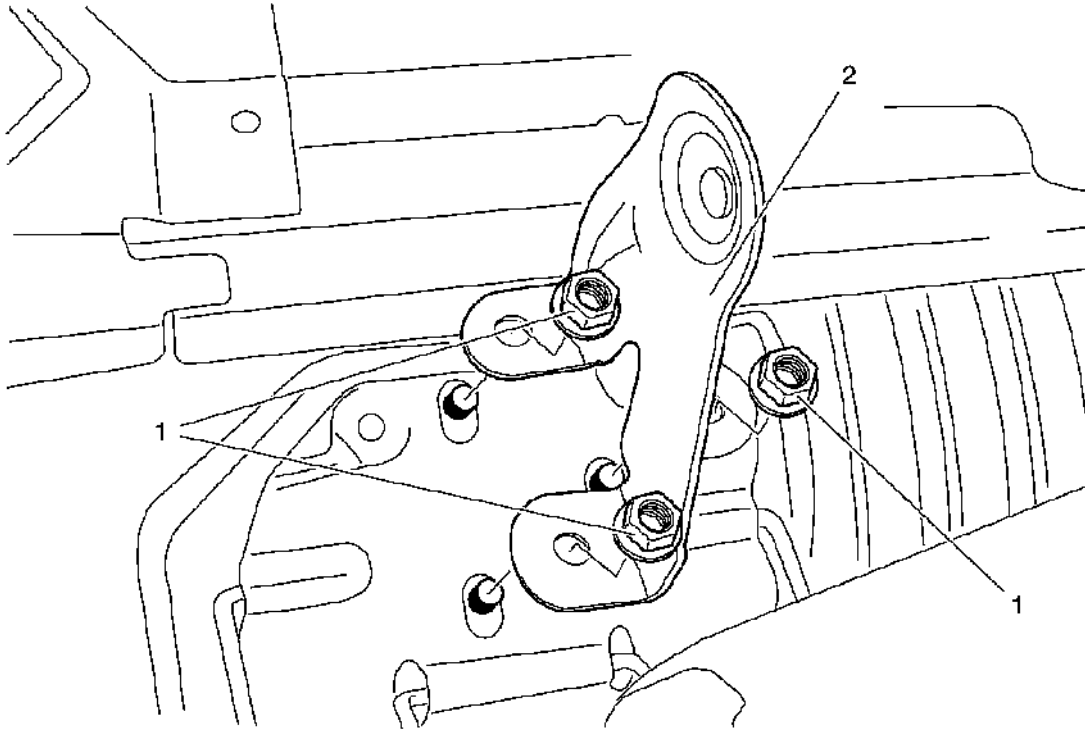
REAR SEAT BACK CUSHION HINGE REPLACEMENT

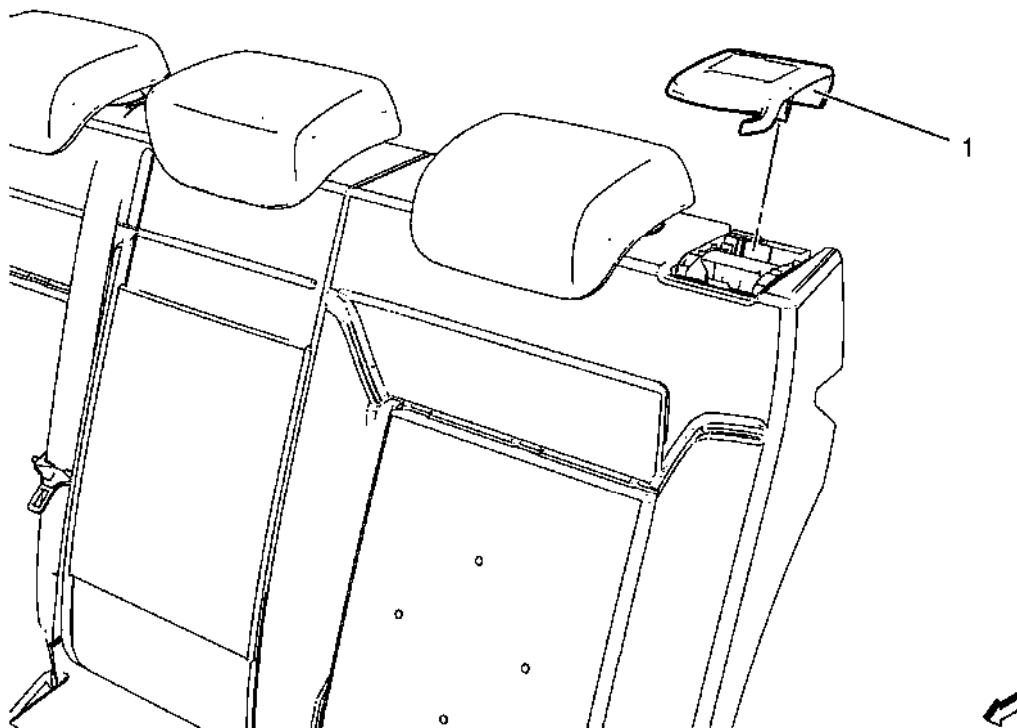
Fig. 61: Rear Seat Back Cushion Hinge & Fasteners
Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Cushion Hinge Replacement

Callout	Component Name
Preliminary Procedures Remove the rear seat back (60 percent seat). Refer to <u>Rear Seat Removal and Installation (40 Percent Seat)</u> , <u>Rear Seat Removal and Installation (60 Percent Seat)</u> .	
1	Rear Seat Back Cushion Hinge Fastener (Qty: 3) CAUTION: Refer to <u>Fastener Caution</u> . Tighten 45 N.m (33 lb ft)
2	Rear Seat Back Cushion Hinge Procedure Detach the rear seat back cushion hinge from the guide pin.

REAR SEAT BACK CUSHION LATCH RELEASE KNOB BEZEL REPLACEMENT (40 PERCENT

SEAT)

**Fig. 62: Rear Seat Back Cushion Latch Release Knob Bezel (40 Percent Seat)**

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Cushion Latch Release Knob Bezel Replacement (40 Percent Seat)

Callout	Component Name
1	Rear Seat Back Cushion Latch Release Knob Bezel Procedure Release the rear seat back cushion latch release knob bezel using a commercial screwdriver.

REAR SEAT BACK CUSHION LATCH RELEASE KNOB BEZEL REPLACEMENT (60 PERCENT SEAT)

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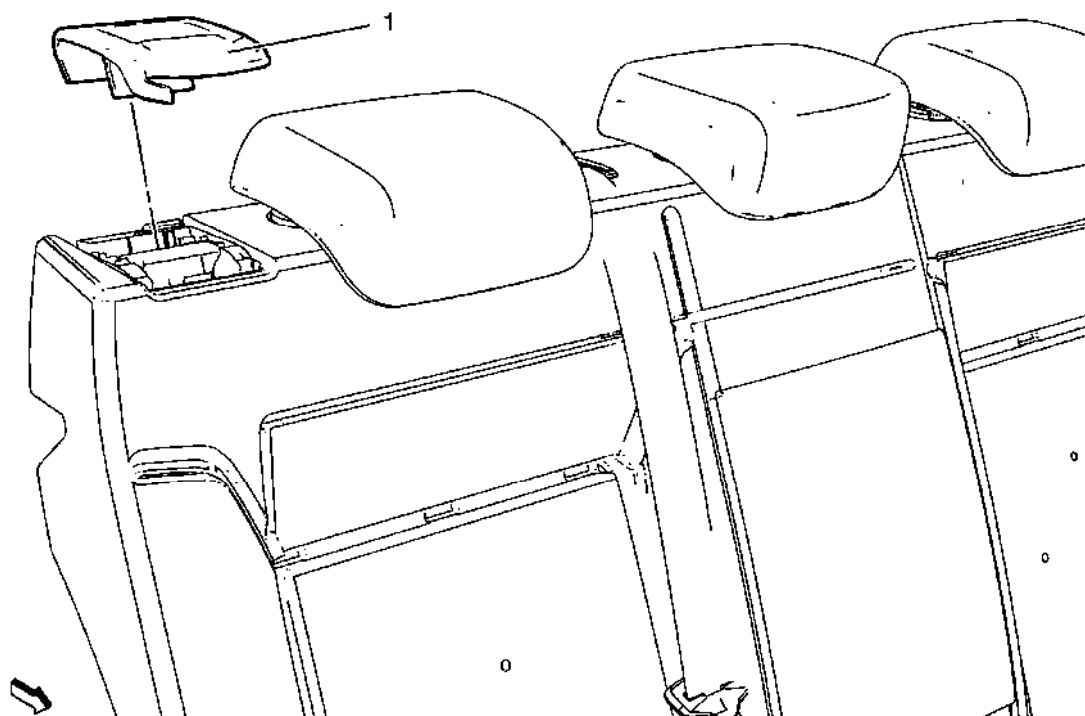


Fig. 63: Rear Seat Back Cushion Latch Release Knob Bezel (60 Percent Seat)

Courtesy of GENERAL MOTORS COMPANY

Rear Seat Back Cushion Latch Release Knob Bezel Replacement (60 Percent Seat)

Callout	Component Name
1	Rear Seat Back Cushion Latch Release Knob Bezel Procedure Release the rear seat back cushion latch release knob bezel using a commercial screwdriver.

THREAD REPAIR

General purpose thread repair kits are available commercially.

WARNING: Refer to Safety Glasses Warning .

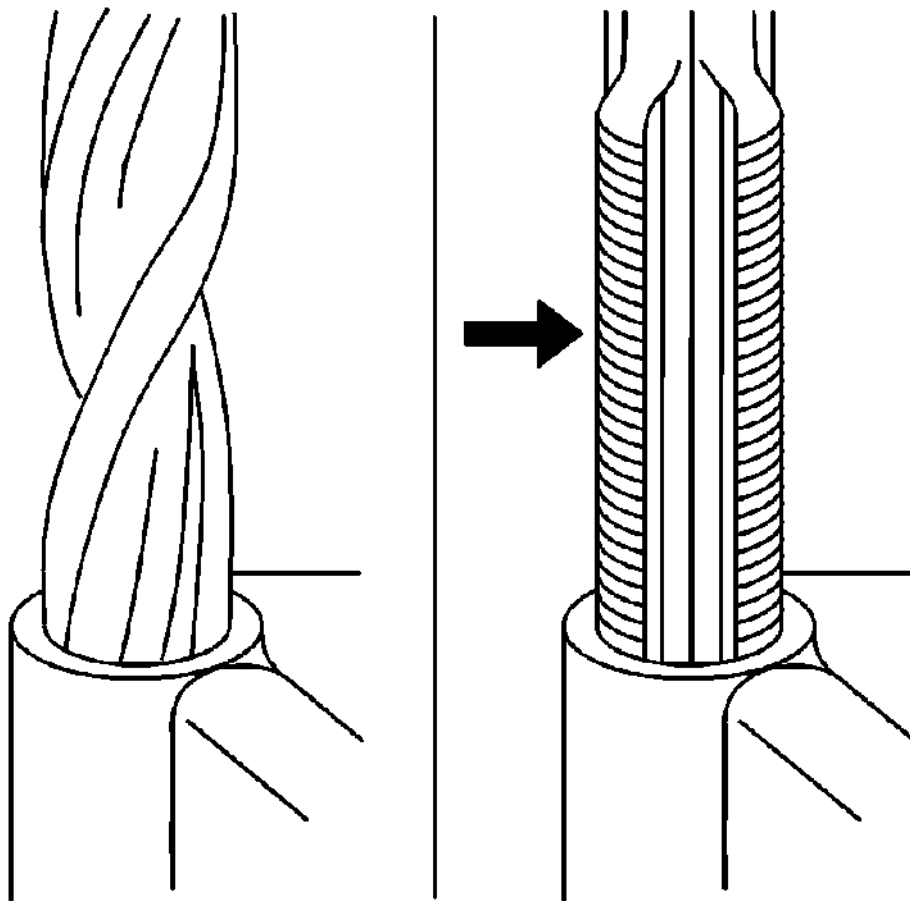


Fig. 64: Drilling & Tapping Damaged Threads
Courtesy of GENERAL MOTORS COMPANY

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.

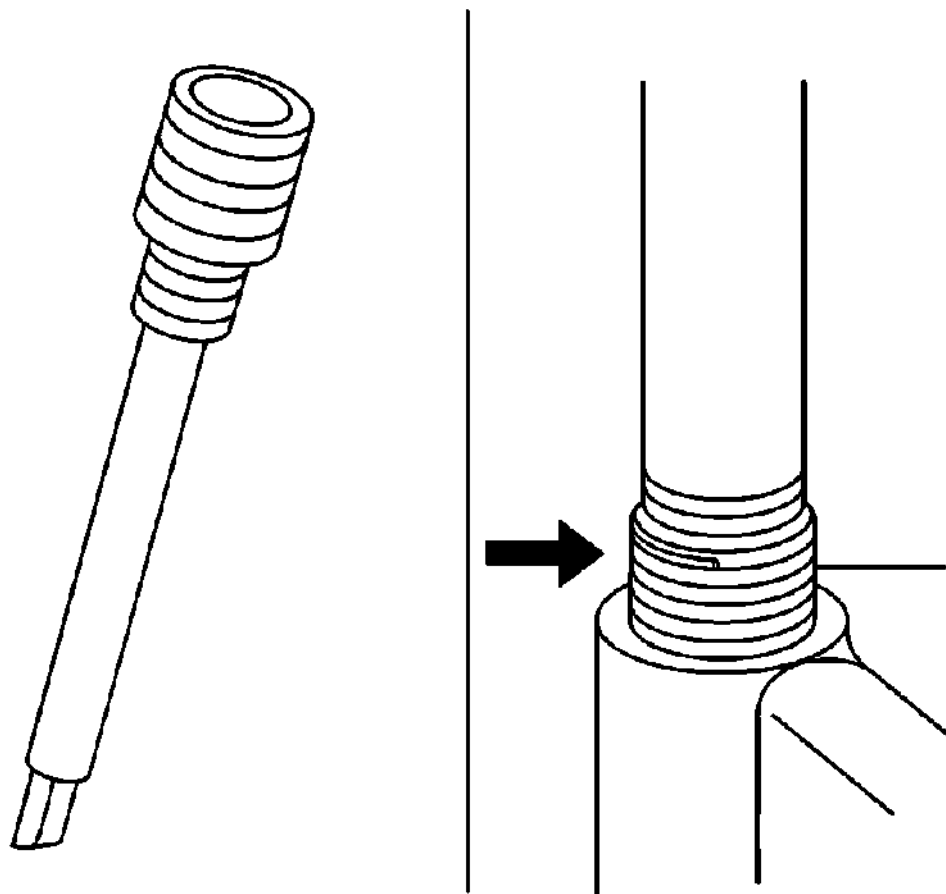


Fig. 65: View Of Thread Insert

Courtesy of GENERAL MOTORS COMPANY

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

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.
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.