

2005 ACCESSORIES & EQUIPMENT

Interior Trim

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Assist Handle Screws	2 N.m	18 lb in
Cargo Tie Down Bezel Bolt	2 N.m	18 lb in
Coat Hook Screw	10 N.m	88 lb in
Side Door Opening Frame Garnish Molding Screw	2 N.m	18 lb in
Storage Compartment Bolts	45 N.m	33 lb ft
Sunshade Bezel Fasteners	2 N.m	18 lb in
Sunshade Rod Retainer - Left Side	2 N.m	18 lb in
Sunshade Rod Retainer - Right Side	10 N.m	88 lb in
Windshield Pillar Garnish Screws	2 N.m	18 lb in

REPAIR INSTRUCTIONS

ELIMINATING UNWANTED ODORS IN VEHICLES

GM Vehicle Care Odor Eliminator, GM P/N 12378554 (Canadian P/N 88901678), may control or eliminate odors in the interior and luggage compartment areas of GM vehicles. This non-toxic, biodegradable, odorless product has been shown to greatly reduce or remove the following types of odor:

- Objectionable smells of mold and mildew resulting from vehicle water leaks
- Customer created odors, such as smoke

You may safely use GM Vehicle Care Odor Eliminator on fabrics, vinyl, leather, carpet, and sound deadening materials. You may also induce this product into HVAC modules and instrument panel ducts for the control of non-bacterial related odors.

IMPORTANT: This product leaves no residual scent and should not be used as an air freshener.

This product may result in the permanent elimination of an odor and may be preferable to

customers whose allergies make them sensitive to perfumes. This product may effectively remove odors when directly contacting the odor source. In cases such as water leaks, use this product with diagnostic procedures to first eliminate the primary cause of the odor. Then use further applications on the residual odor to permanently correct the vehicle condition.

How to Use this Product

- Spray GM Vehicle Care Odor Eliminator directly or as an additive with carpet shampoo in steam cleaners.
- Do not use on any interior surface that plain water would deteriorate, because this product will have the same effect. Also avoid letting this product come into contact with vinegar or any acidic substance. Acid-based products will hamper the effectiveness of GM Vehicle Care Odor Eliminator.
- Instructions and cautions are printed on the bottle, but additional help is available. If you encounter a persistent or recurring odor, you may call to obtain additional information and usage suggestions.
 - In the USA, call 1-800-955-8591.
 - In Canada, call 1-800-977-4145.

CARPET RETAINER REPLACEMENT - FRONT

Tools Required

J 38778 Door Trim Pad Clip Remover

Removal Procedure

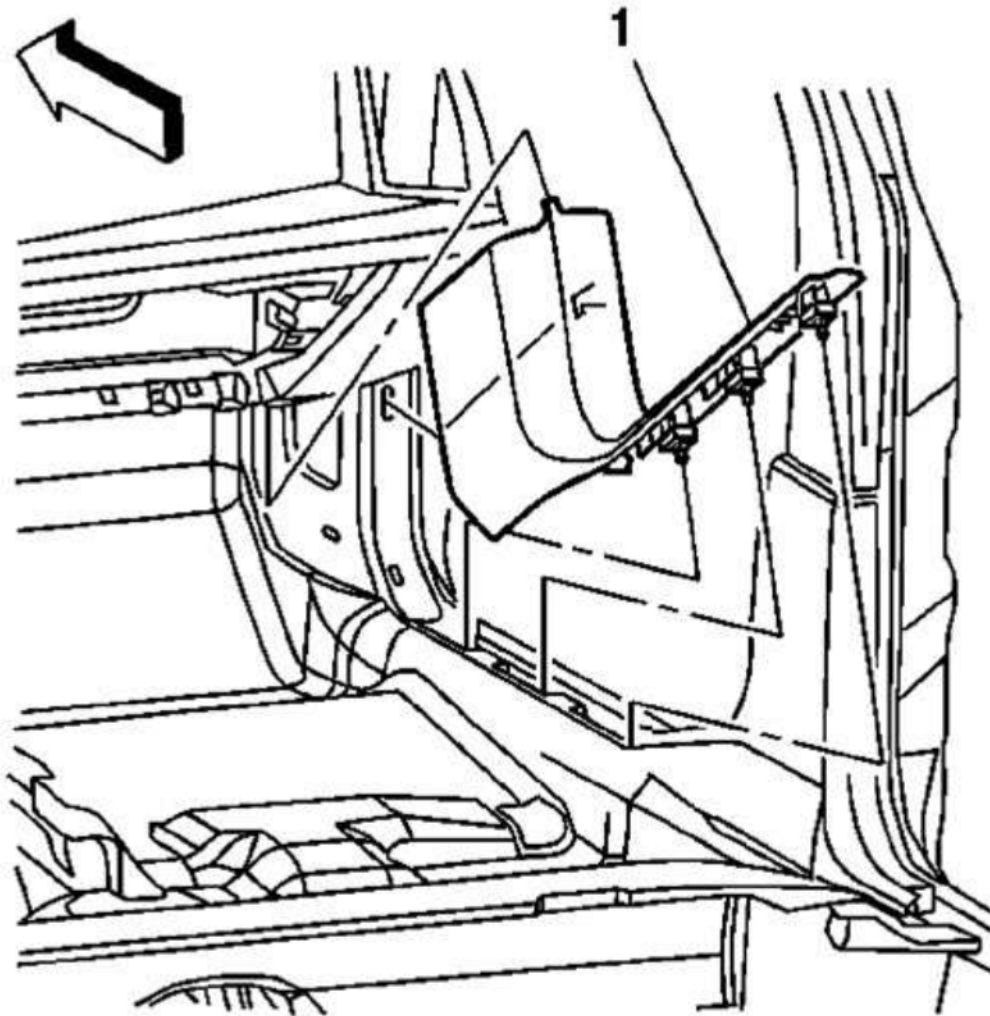


Fig. 1: View Of Front Carpet Retainer
Courtesy of GENERAL MOTORS CORP.

1. Using a **J 38778** release the retainer clips from the rocker panel.
2. Slide the carpet retainer (1) rearward.
3. Remove the front carpet retainer.

Installation Procedure

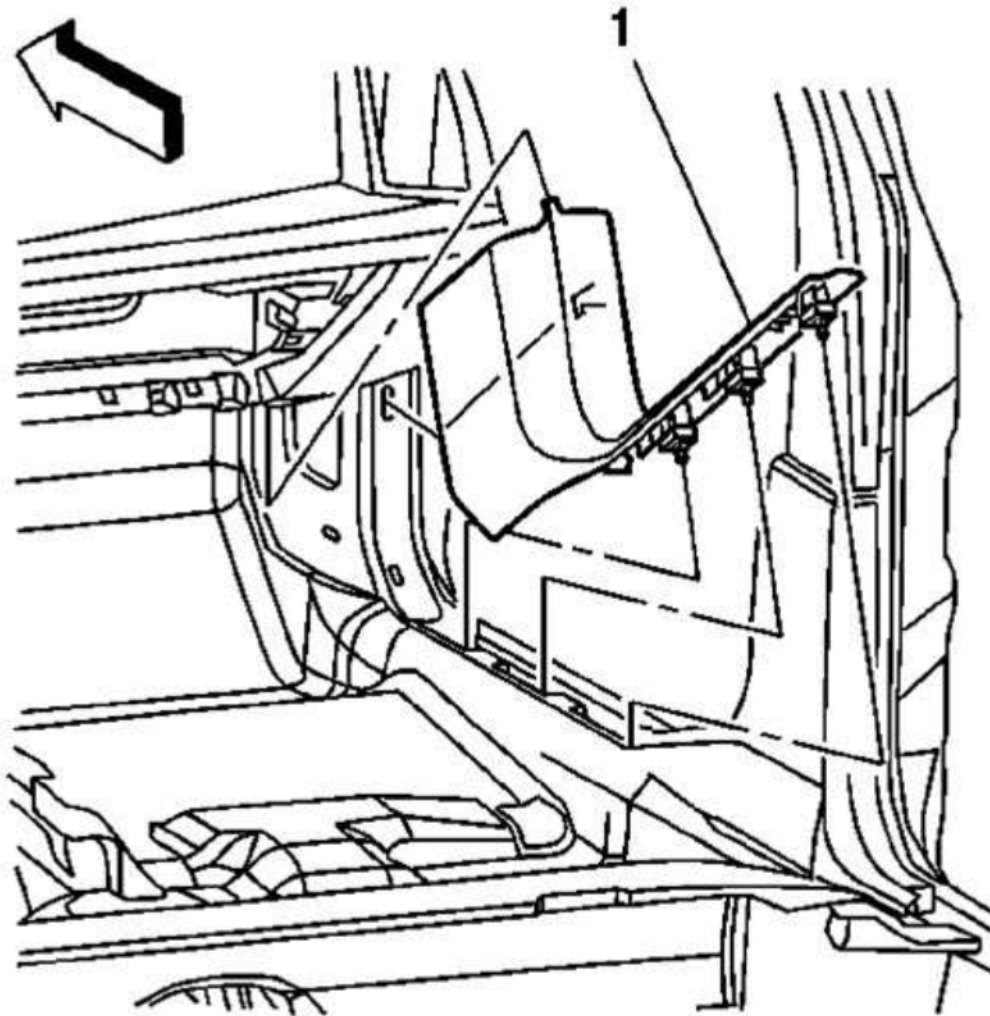


Fig. 2: View Of Front Carpet Retainer
Courtesy of GENERAL MOTORS CORP.

1. Position the front upper retainer to the holes in the hinge pillar.
2. Align the front carpet retainer (1) with the slots in the rocker panel.
3. Apply pressure along the entire length of the molding in order to secure the retainers.

CARPET RETAINER REPLACEMENT - REAR

Tools Required

J 38778 Door Trim Pad Clip Remover

Removal Procedure

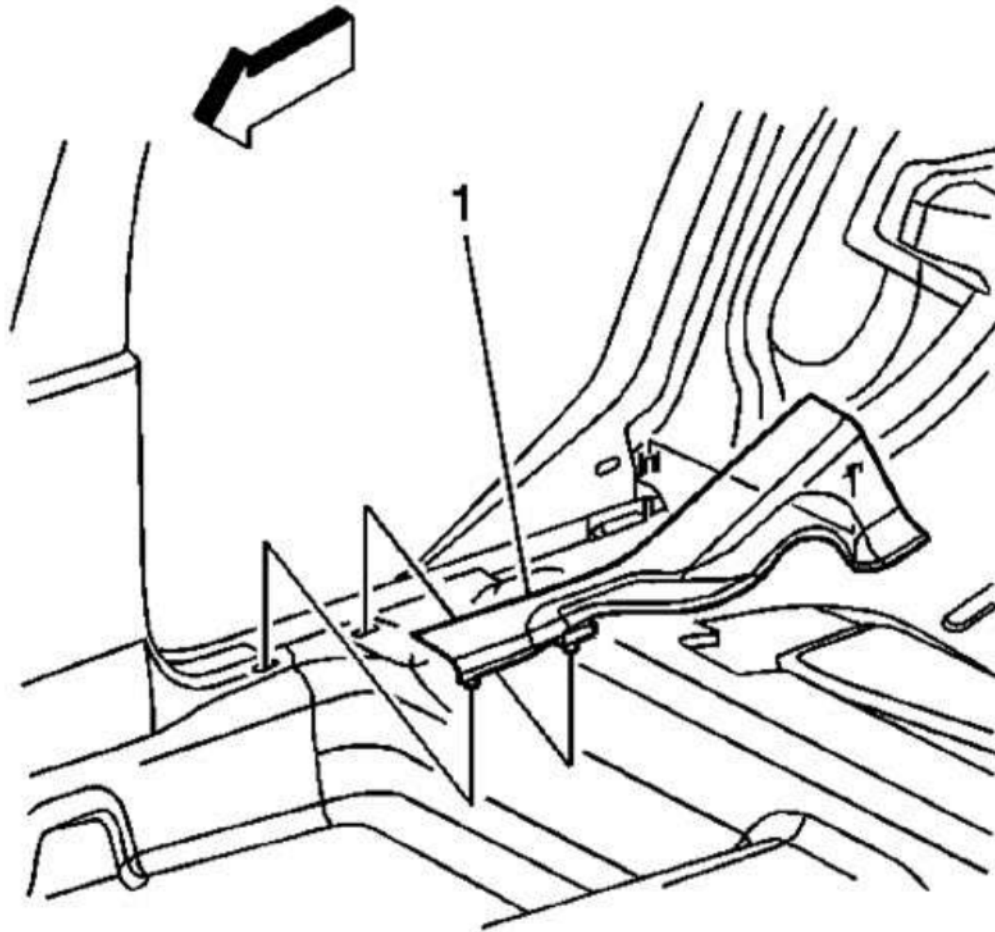


Fig. 3: View Of Rear Carpet Retainer
Courtesy of GENERAL MOTORS CORP.

1. Using a **J 38778** release the retainer clips from the rocker panel.
2. Tilt the carpet retainer inward and pull downward in order to release the trim from the retainer at the rear of the carpet retainer (1).
3. Remove the rear carpet retainer.

Installation Procedure

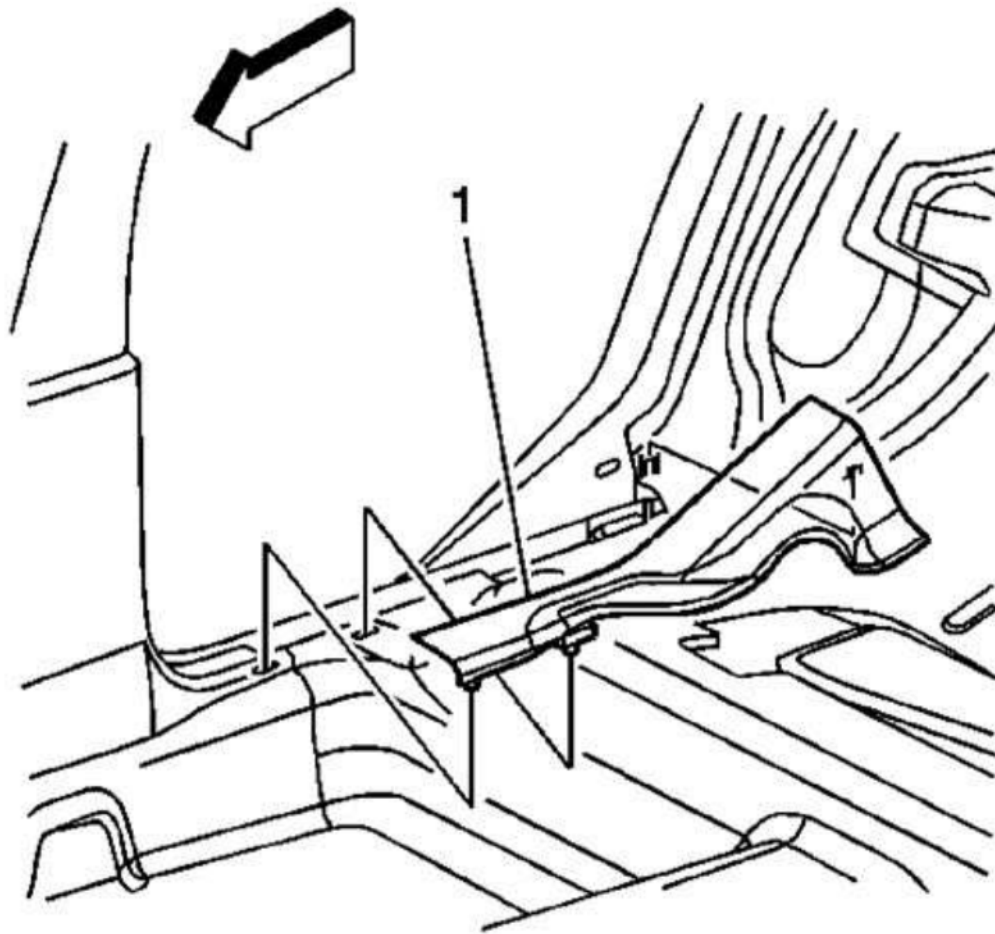


Fig. 4: View Of Rear Carpet Retainer
Courtesy of GENERAL MOTORS CORP.

1. Position the rear carpet retainer (1) with the slots in the rocker.
2. Tilt the trim plate in order to align the retainer at the rear of the carpet retainer.
3. Position the retainers into the slots on the rocker panel.
4. Press downward in order to engage the retainers into the slots in the rocker panel.

FLOOR CARPET DRYING

If the carpet or the pad or insulator is wet, use the following criteria for drying or for replacing the components:

- For a 1-piece carpet assembly bonded to a cotton or a fiber padding, replace the entire

assembly.

- For a 2-piece carpet assembly with a cotton or a fiber padding, replace the padding only. While the carpet is out of the vehicle, dry the carpet using the method described below.
- For a 1-piece carpet assembly bonded to a foam padding or attached to a synthetic padding, dry the carpet using the method described below.
- For a 2-piece carpet assembly with a synthetic padding, dry the assembly using the method described below.

Drying Method

1. If you observe puddles of liquid on the carpet face, use a wet vacuum to remove the excess moisture.
2. Blot the face of the carpet with a towel in order to absorb as much moisture as possible.
3. Point a fan at the affected area and air dry the carpet.

CARPET REPLACEMENT - FRONT

Removal Procedure

CAUTION: Refer to SIR Caution in Cautions and Notices.

CAUTION: In order to prevent SIR deployment, personal injury, or unnecessary SIR system repairs, do not strike the door or the door pillar in the area of the side impact sensor (SIS). Turn OFF the ignition and remove the key when performing service in the area of the SIS.

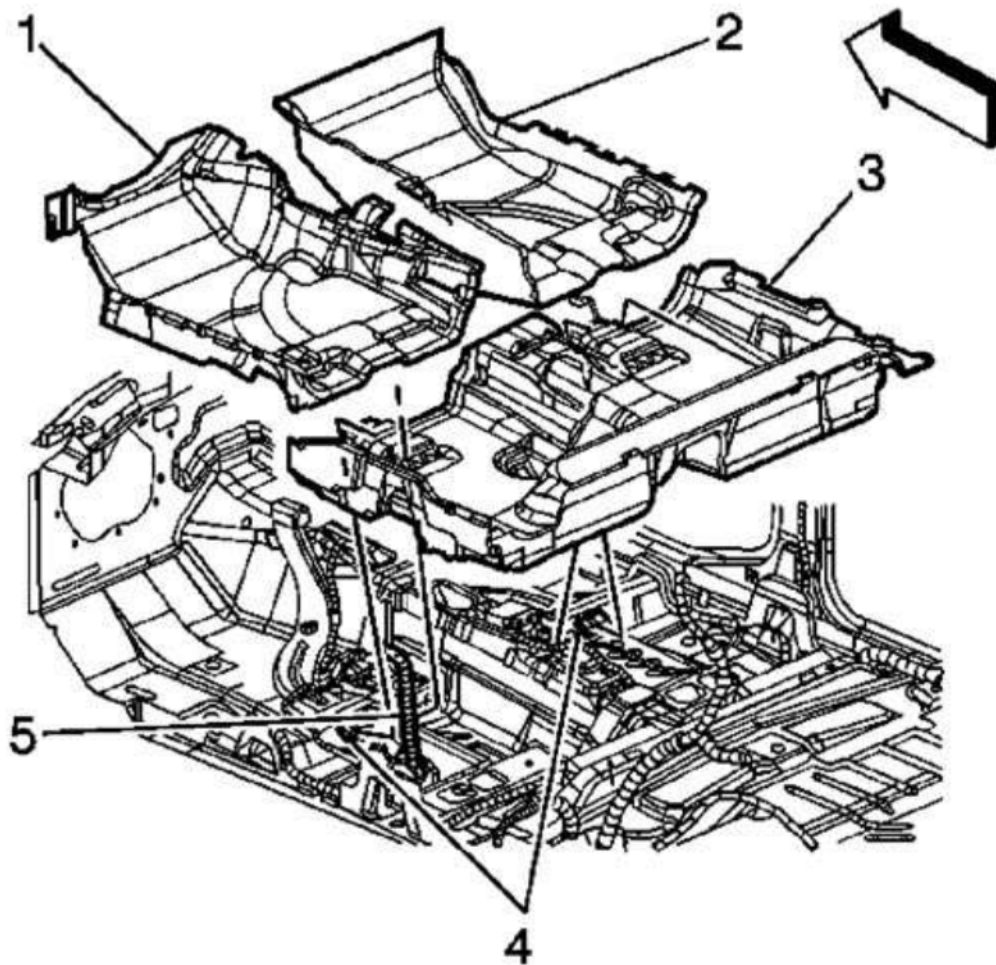


Fig. 5: View Of Carpets

Courtesy of GENERAL MOTORS CORP.

1. Remove the appropriate front seat. Refer to Seat Replacement - Bucket in Seats.
2. Remove the center console. Refer to Console Replacement - Front Floor in Instrument Panel, Gages and Console.
3. Remove the front carpet retainer. Refer to Carpet Retainer Replacement - Front.
4. Remove the rear carpet retainer. Refer to Carpet Retainer Replacement - Rear.
5. Remove the center pillar garnish molding. Refer to Garnish Molding Replacement - Center Pillar.
6. Remove the carpet (1,2).

CAUTION: In order to avoid personal injury or vehicle damage when you repair or replace the carpet, use the same thickness and material size as the original installation. Always return the carpet to the original location.

CAUTION: All floor pan insulator material must meet Federal Vehicle Safety Standards for flammability. Failure to do so could result in personal injury and/or vehicle damage.

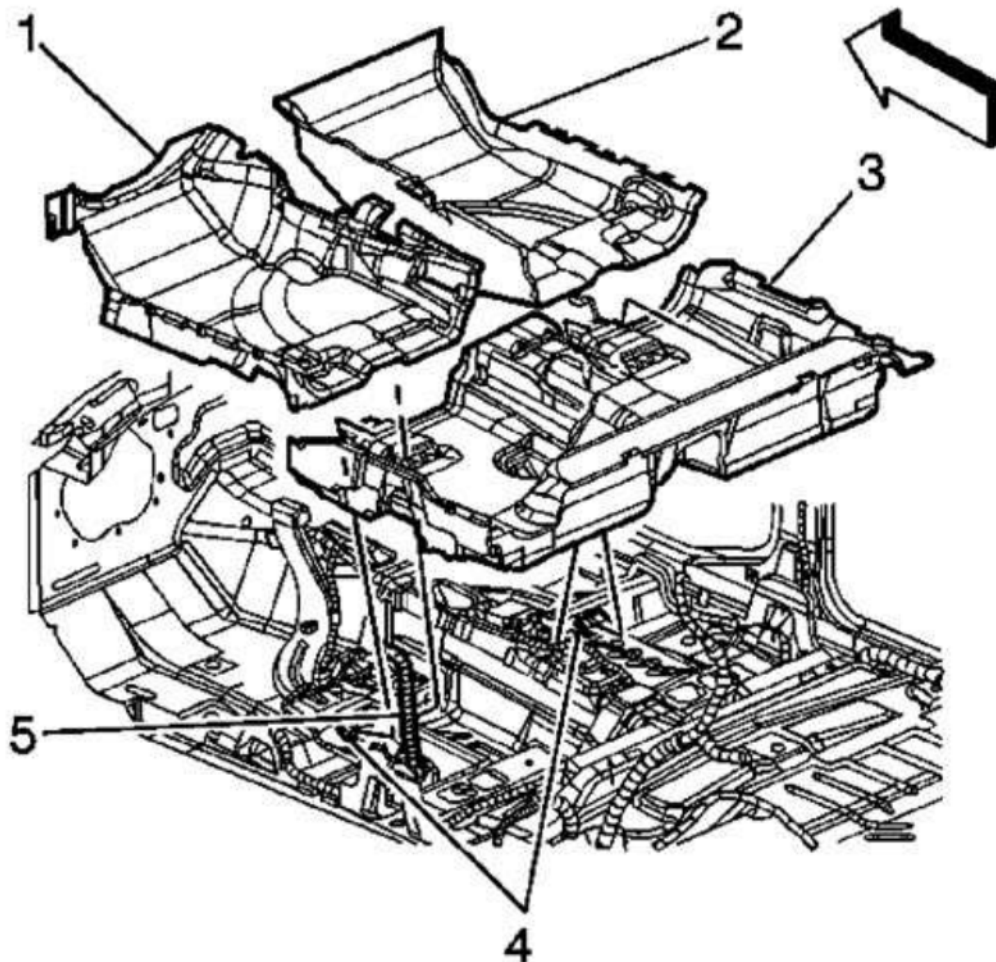


Fig. 6: View Of Carpets

Courtesy of GENERAL MOTORS CORP.

1. Position the front floor carpet (1,2) into place over the front edge of the rear carpet.

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2. Make sure the electrical connector (5) is carefully positioned under the front carpet piece.
3. Align the carpet to the dash panel, rocker panel, tunnel and seat attachment areas.
4. Tuck the carpet behind the tab on the HVAC duct.
5. Ensure all wrinkles are removed.
6. Install the center console. Refer to **Console Replacement - Front Floor** in Instrument Panel, Gages and Console.
7. Install the center pillar garnish molding. Refer to **Garnish Molding Replacement - Center Pillar**.
8. Install the front carpet retainer. Refer to **Carpet Retainer Replacement - Front**.
9. Install the rear carpet retainer. Refer to **Carpet Retainer Replacement - Rear**.
10. Install the front seat. Refer to **Seat Replacement - Bucket** in Seats.

CARPET REPLACEMENT - INTERMEDIATE

Tools Required

J 38778 Door Trim Pad Clip Remover

Removal Procedure

CAUTION: Refer to **SIR Caution** in Cautions and Notices.

CAUTION: In order to prevent SIR deployment, personal injury, or unnecessary SIR system repairs, do not strike the door or the door pillar in the area of the side impact sensor (SIS). Turn OFF the ignition and remove the key when performing service in the area of the SIS.

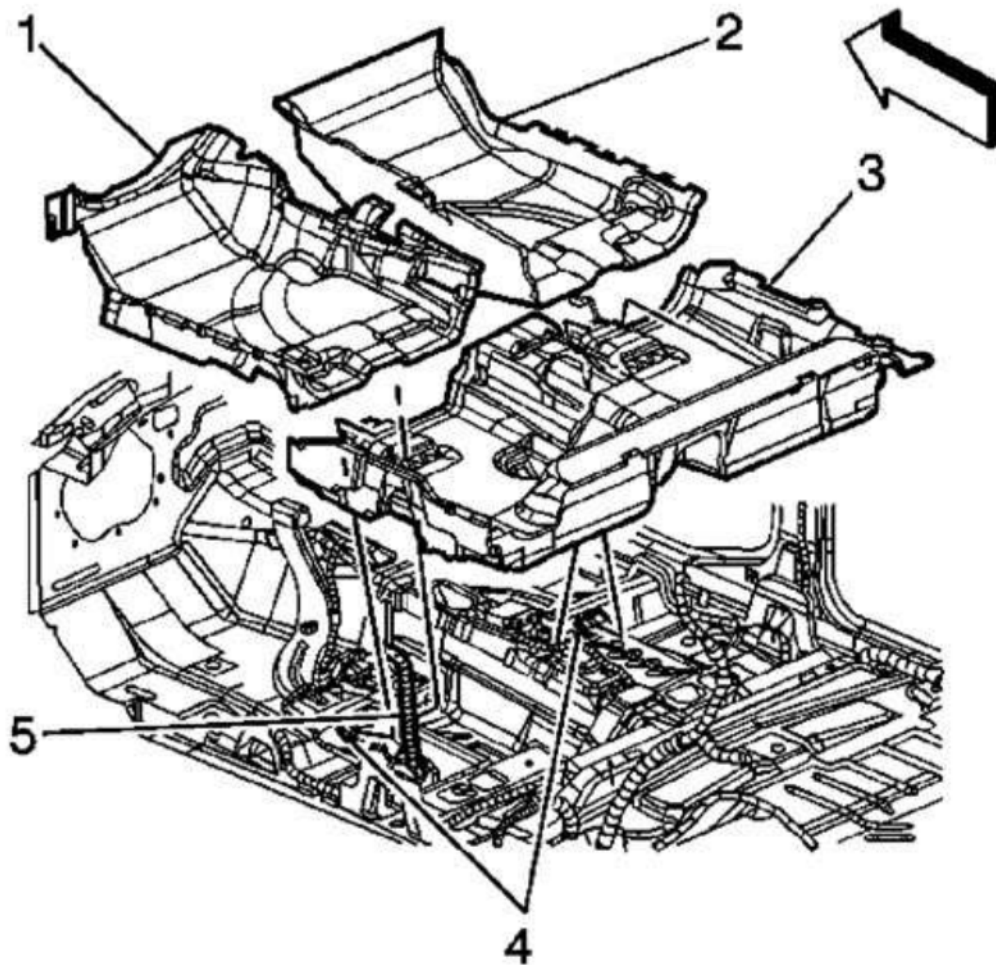


Fig. 7: View Of Carpets

Courtesy of GENERAL MOTORS CORP.

1. Remove the front seats. Refer to **Seat Replacement - Bucket** in Seats.
2. Remove the center console. Refer to **Console Replacement - Front Floor** in Instrument Panel, Gages and Console.
3. Remove the rear seat. Refer to **Seat Replacement - Rear No. 1** in Seats.
4. Remove the front carpet retainers. Refer to **Carpet Retainer Replacement - Front**.
5. Remove the rear carpet retainers. Refer to **Carpet Retainer Replacement - Rear**.
6. Remove the center pillar garnish moldings. Refer to **Garnish Molding Replacement - Center Pillar**.
7. Using a **J 38778** disconnect the push-in retainers at the rear ducts.

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8. Carefully lift the rear carpet in order to disengage the front floor ducts (4) from the rear floor duct assembly.
9. Remove the intermediate carpet (3) from the vehicle.
10. Using the **J 38778** disconnect the push-in retainers from the air ducts to carpet.
11. Remove the air ducts from the carpeting.

Installation Procedure

1. Place the rear air distribution ducts to the carpet.
2. Install the push-in retainers in order to secure the air distribution ducts to the intermediate carpet.

CAUTION: All floor pan insulator material must meet Federal Vehicle Safety Standards for flammability. Failure to do so could result in personal injury and/or vehicle damage.

CAUTION: In order to avoid personal injury or vehicle damage when you repair or replace the carpet, use the same thickness and material size as the original installation. Always return the carpet to the original location.

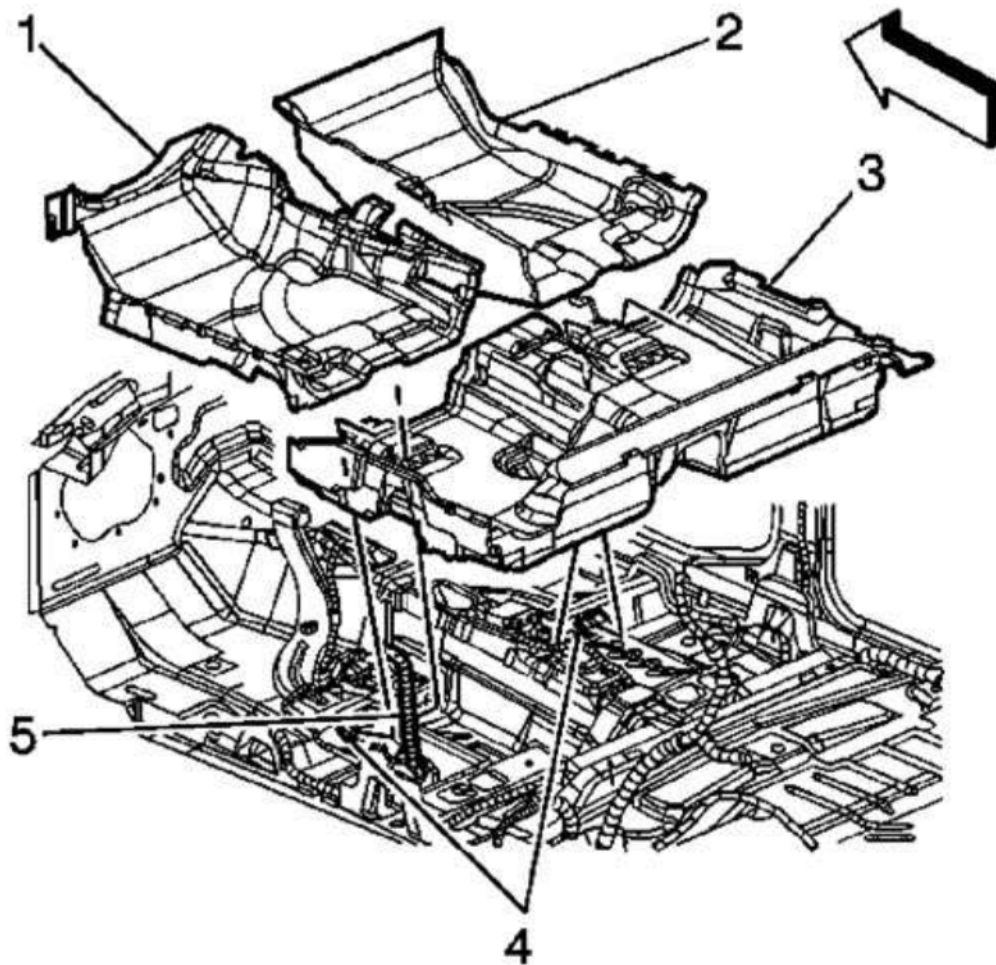


Fig. 8: View Of Carpets

Courtesy of **GENERAL MOTORS CORP.**

3. Place the carpet (3) into the vehicle.
4. Ensure the electrical connectors are exposed above the carpeting.
5. Angle the front edge of the carpeting in order to attach the HVAC ducts to the front carpeting duct assembly (4).
6. Ensure the floor ducts are securely attached to the floor duct assembly.
7. Install new push-in retainers.
8. Press the carpet to the floorpan in order to remove any distortion from the carpet.
9. Install the center pillar garnish moldings. Refer to **Garnish Molding Replacement - Center Pillar**.

10. Install the rear carpet retainers. Refer to **Carpet Retainer Replacement - Rear** .
11. Install the front carpet retainers. Refer to **Carpet Retainer Replacement - Front** .
12. Install the center console. Refer to **Console Replacement - Front Floor** in Instrument Panel, Gages and Console.
13. Install the front seats. Refer to **Seat Replacement - Bucket** in Seats.
14. Install the rear seat. Refer to **Seat Replacement - Rear No. 1** in Seats.

CARPET REPLACEMENT - REAR

Removal Procedure

CAUTION: Refer to **SIR Caution** in Cautions and Notices.

CAUTION: In order to prevent SIR deployment, personal injury, or unnecessary SIR system repairs, do not strike the door or the door pillar in the area of the side impact sensor (SIS). Turn OFF the ignition and remove the key when performing service in the area of the SIS.

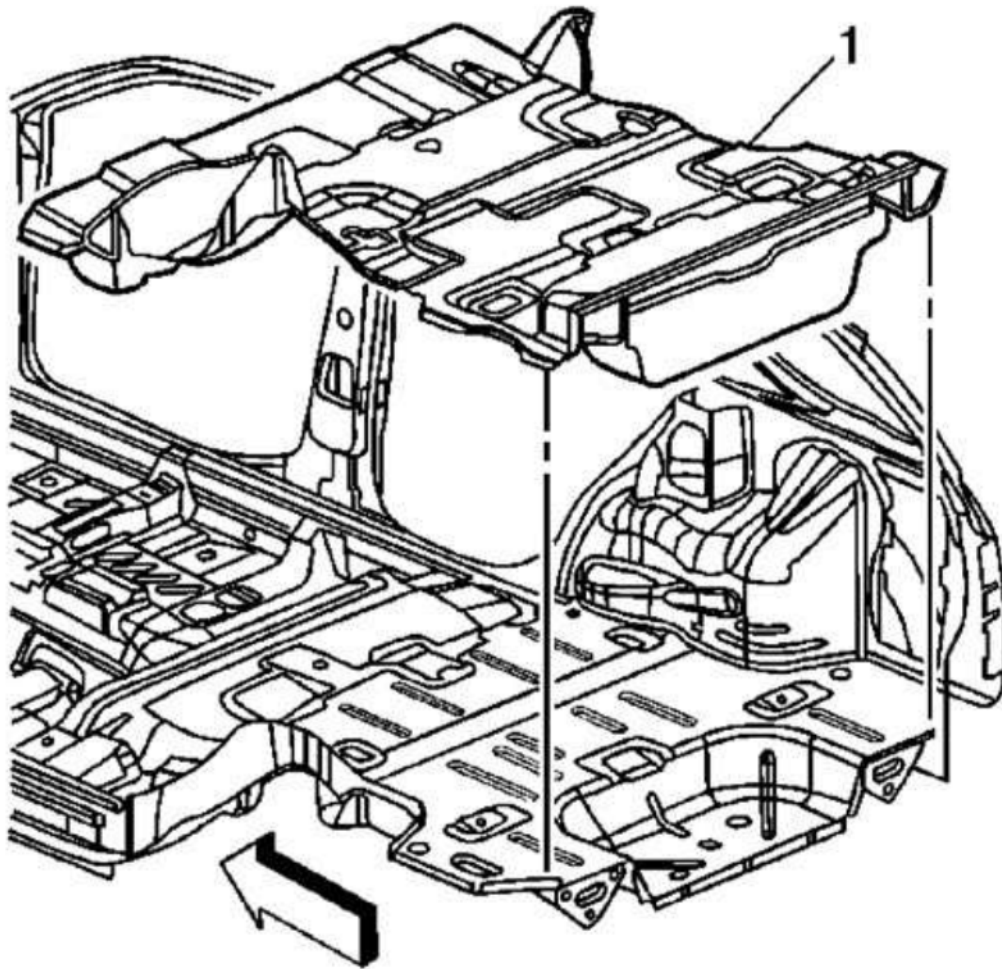


Fig. 9: View Of Rear Carpet
Courtesy of GENERAL MOTORS CORP.

1. Remove the rear seat no. 1. Refer to Seat Replacement - Rear No. 1 in Seats.
2. Remove the rear seat no. 2. Refer to Seat Replacement - Rear No. 2 - Folding in Seats.
3. Remove the rear carpet retainers. Refer to Carpet Retainer Replacement - Rear.
4. Remove the rear sill plate. Refer to Compartment Sill Plate Replacement - Rear in Body Rear End.
5. Remove the body side rear trim panels. Refer to Trim Panel Replacement - Body Side Rear.
6. Remove the rear carpet (1) from the vehicle.

Installation Procedure

CAUTION: All floor pan insulator material must meet Federal Vehicle Safety Standards for flammability. Failure to do so could result in personal injury and/or vehicle damage.

CAUTION: In order to avoid personal injury or vehicle damage when you repair or replace the carpet, use the same thickness and material size as the original installation. Always return the carpet to the original location.

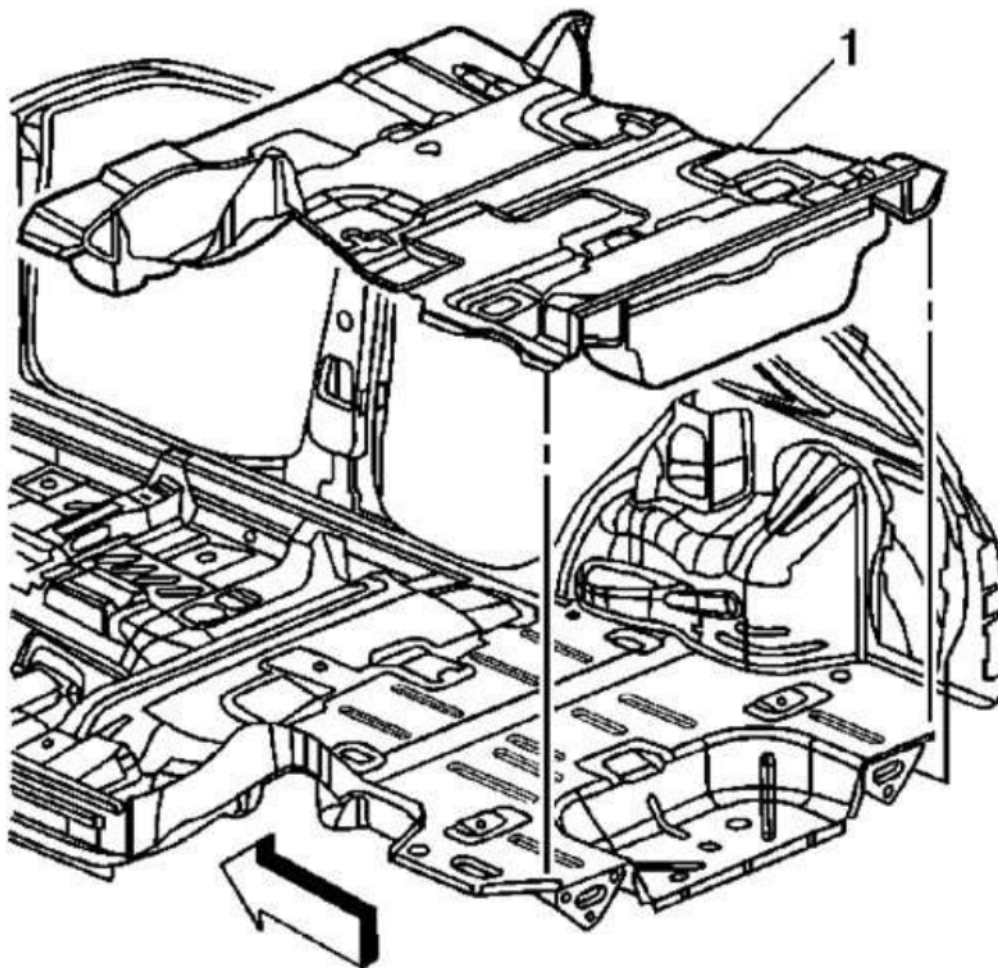


Fig. 10: View Of Rear Carpet
Courtesy of GENERAL MOTORS CORP.

1. Place the carpet (1) into the vehicle.
2. Ensure the electrical connectors are exposed above the carpeting.
3. Secure the rear carpet hook and latch material to the intermediate carpet in four places.
4. Press the carpet to the floorpan in order to remove any distortion from the carpet.
5. Install the body side trim panels. Refer to **Trim Panel Replacement - Body Side Rear**.
6. Install the rear sill plate. Refer to **Compartment Sill Plate Replacement - Rear** in Body Rear End.
7. Install the rear carpet retainers. Refer to **Carpet Retainer Replacement - Rear**.
8. Install the rear seat no. 2. Refer to **Seat Replacement - Rear No. 2 - Folding** in Seats.
9. Install the rear seat no. 1. Refer to **Seat Replacement - Rear No. 1** in Seats.

HEADLINER REPLACEMENT

Removal Procedure

CAUTION: If the energy absorbing foam breaks while you are removing or installing the headliner, use a **NEW** headliner. If you do not replace the damaged headliner, future personal injury is possible.

CAUTION: Do not attempt to repair or alter the head impact energy-absorbing material glued to the headliner or to the garnish trims. If the material is damaged, replace the headliner and/or the garnish trim. Failure to do so could result in personal injury.

CAUTION: In order to prevent SIR deployment, personal injury, or unnecessary SIR system repairs, do not strike the door or the door pillar in the area of the side impact sensor (SIS). Turn OFF the ignition and remove the key when performing service in the area of the SIS.

CAUTION: Refer to **SIR Caution** in Cautions and Notices.

1. Disable the SIR system. Refer to **SIR Disabling and Enabling Zone 2** and **SIR Disabling and Enabling Zone 6** in SIR.

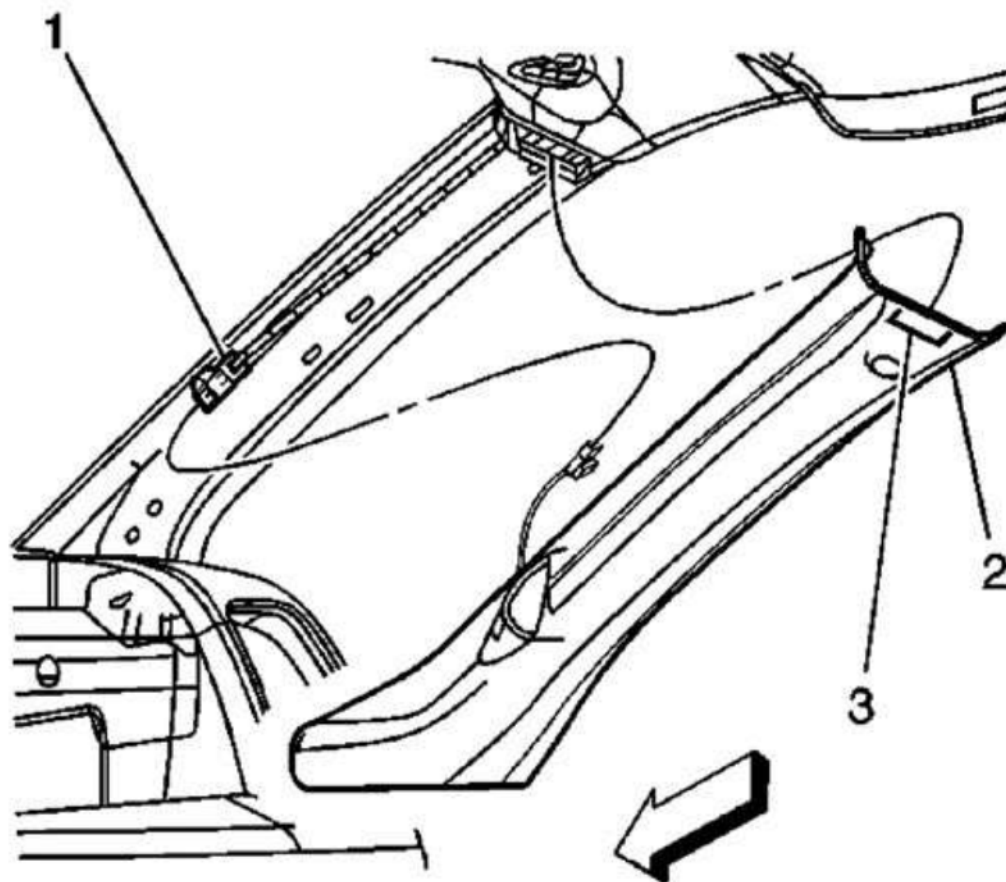


Fig. 11: Locating Front Upper Speaker Components

Courtesy of GENERAL MOTORS CORP.

2. Remove the windshield pillar garnish moldings (2). Refer to **Garnish Molding Replacement - Windshield Pillar**.
3. Remove the front assist handles. Refer to **Assist Handle Replacement - Front**.
4. Recline the front seats.

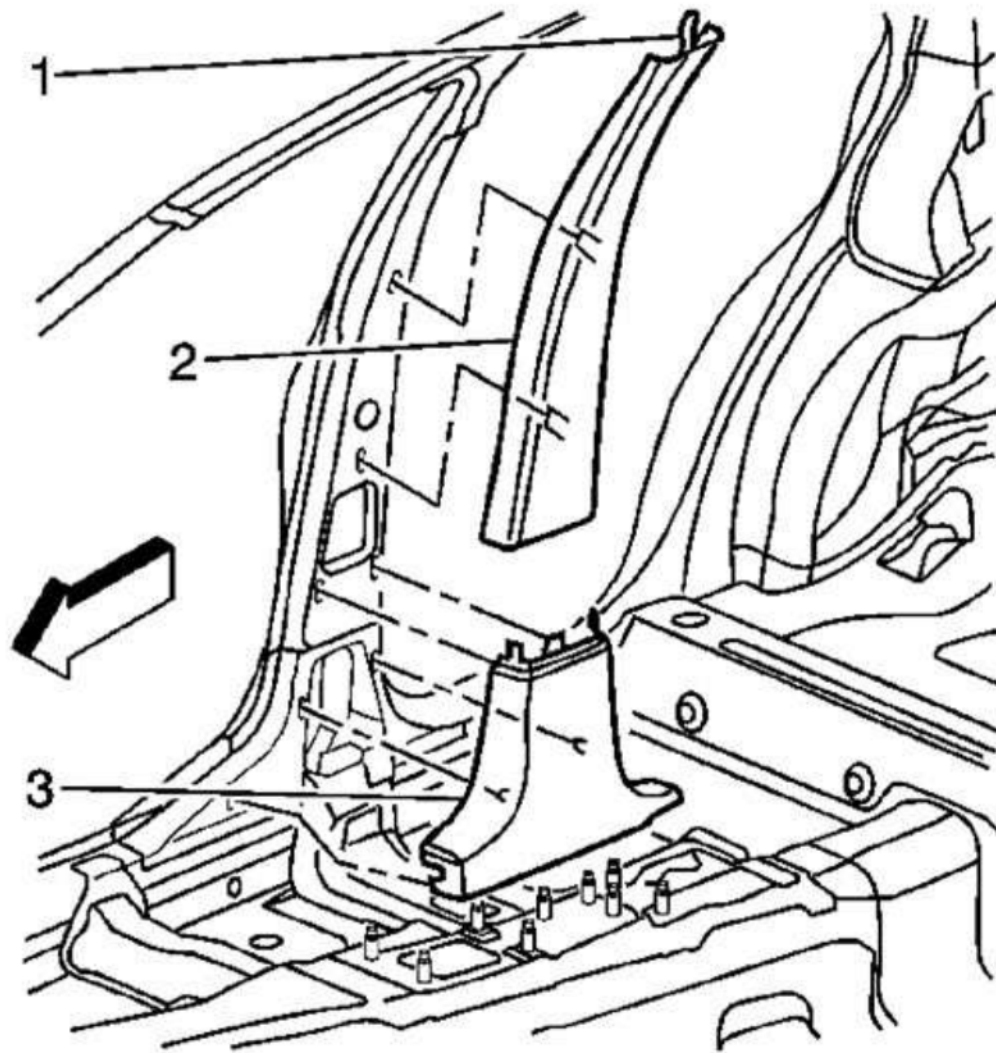


Fig. 12: View Of Center Pillar Garnish Moldings
Courtesy of GENERAL MOTORS CORP.

5. Remove the center pillar garnish moldings (2). Refer to **Garnish Molding Replacement - Center Pillar**.
6. Lower the rear seat No. 1.

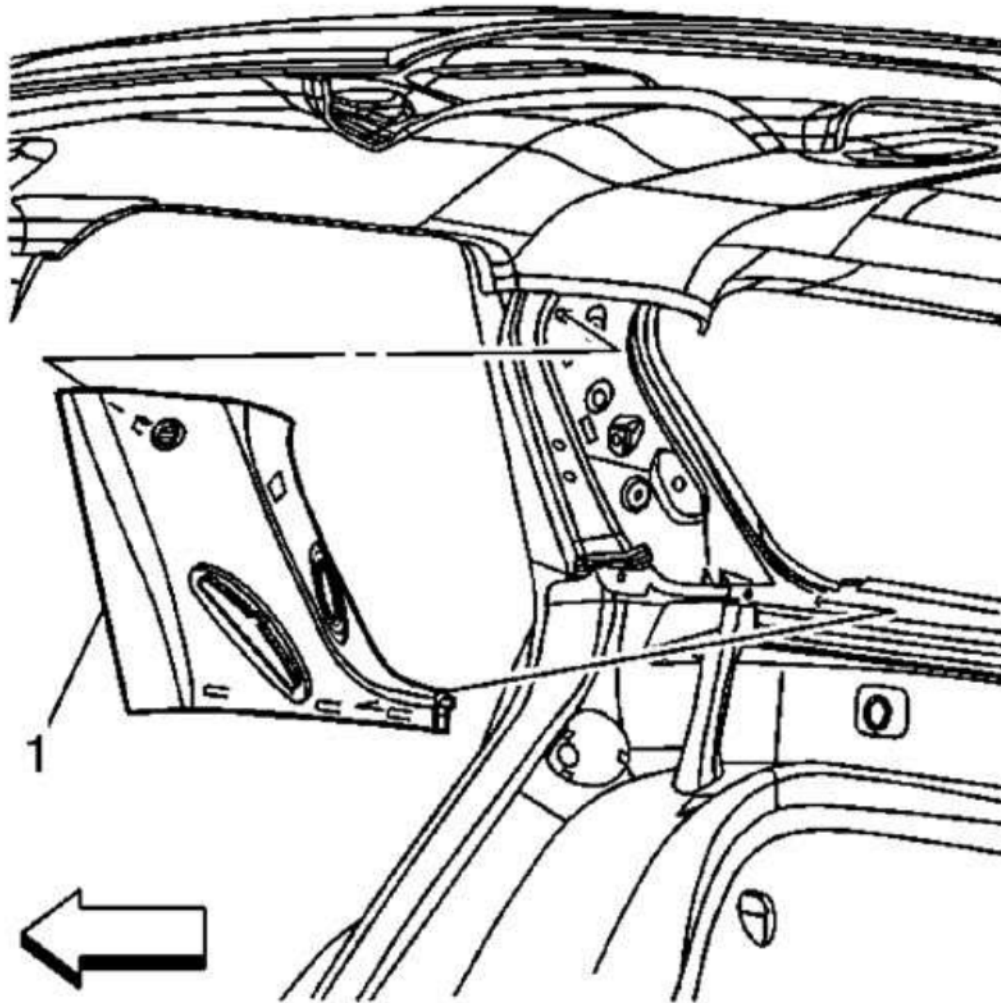


Fig. 13: View Of Side Door Opening Frame Garnish Molding
Courtesy of GENERAL MOTORS CORP.

7. Remove the side door opening frame garnish moldings (1). Refer to **Garnish Molding Replacement - Side Door Opening Frame**.

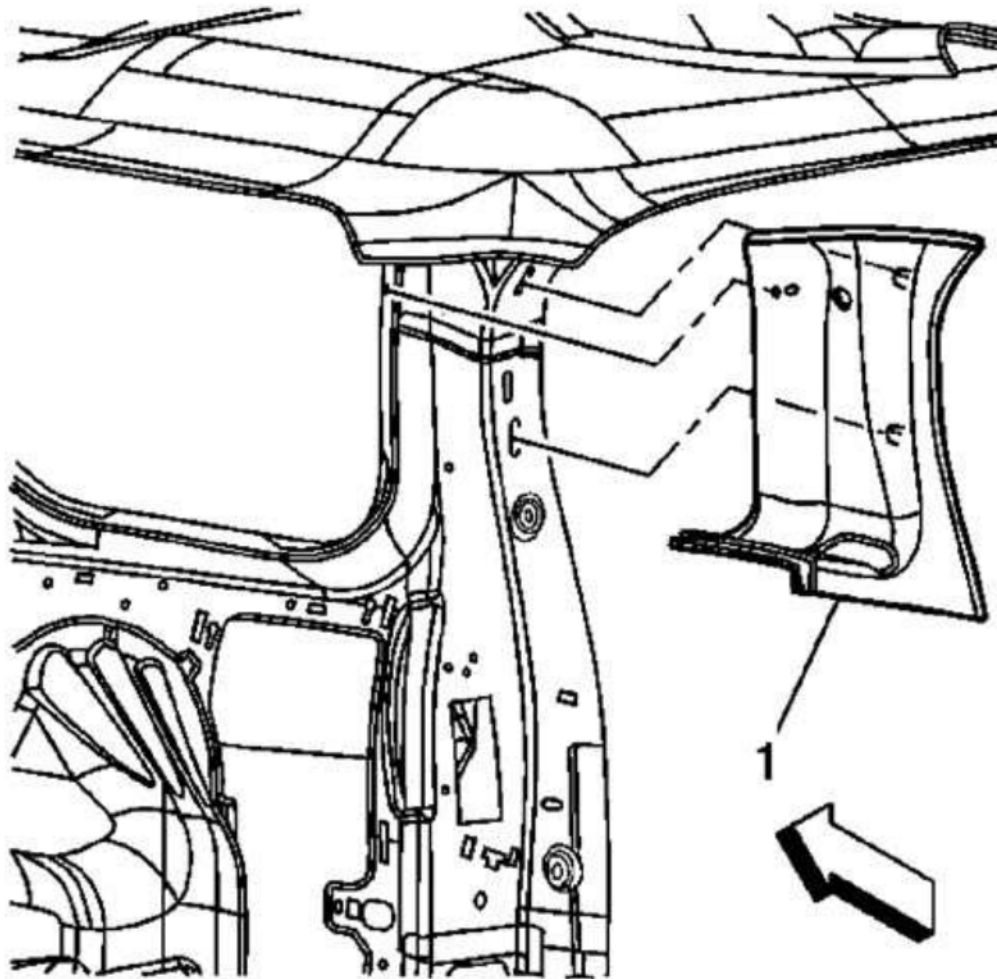


Fig. 14: View Of Body Side Upper Garnish Moldings
Courtesy of GENERAL MOTORS CORP.

8. Remove the body side upper garnish moldings (1). Refer to **Garnish Molding Replacement - Body Side Rear Upper**.
9. Lower the rear seat No. 2.

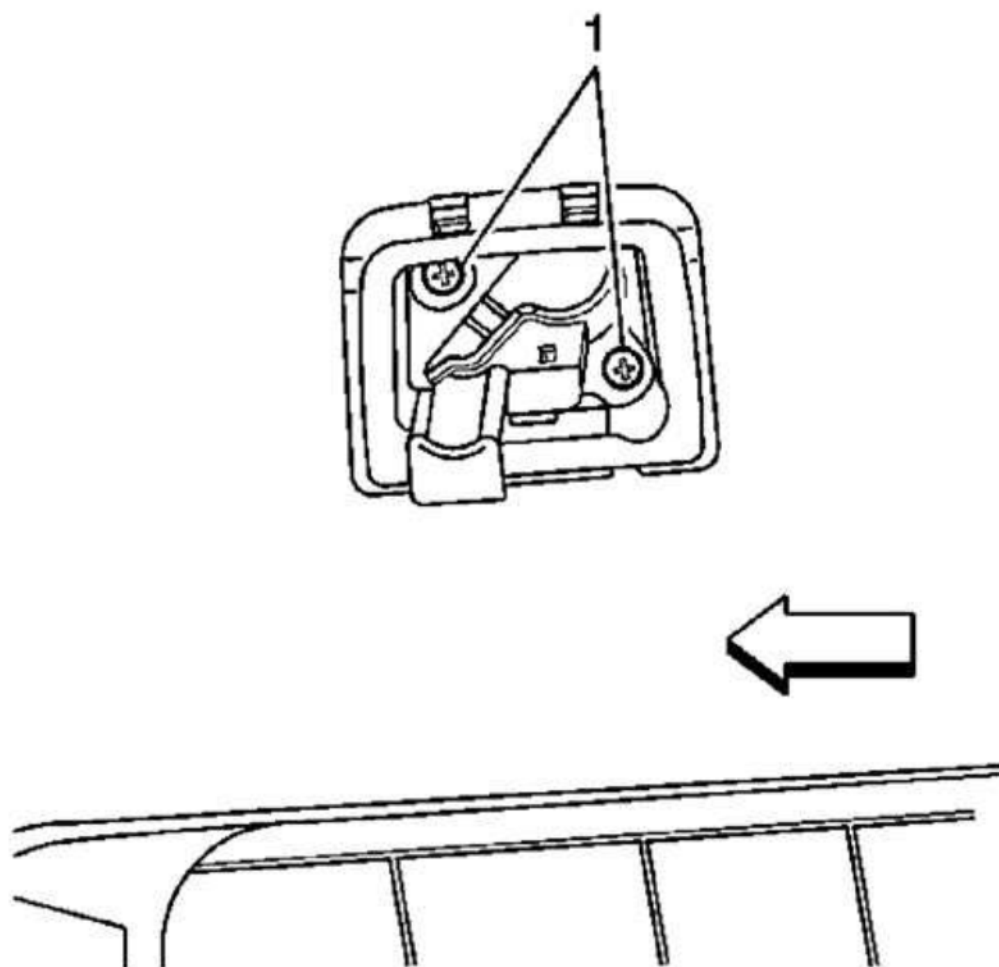


Fig. 15: Locating Cargo Tie Down Bezels Fasteners
Courtesy of GENERAL MOTORS CORP.

10. Remove the cargo tie down bezels fasteners (1).

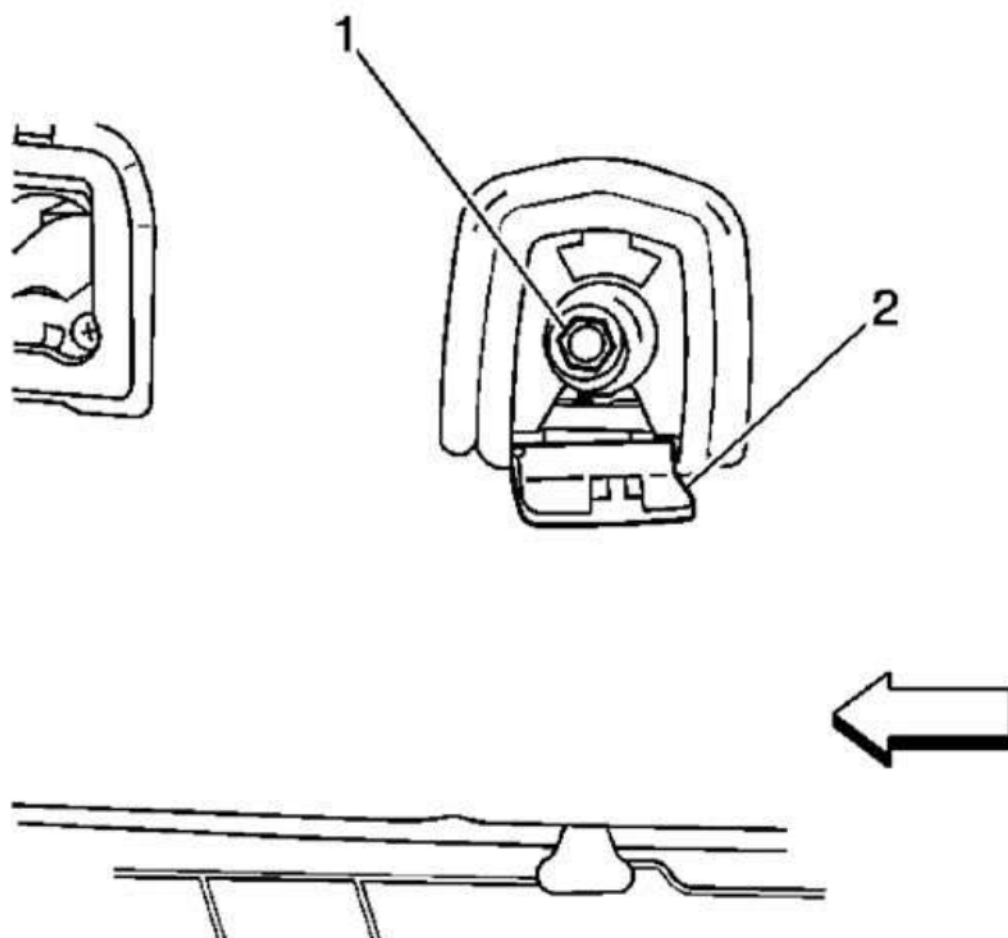


Fig. 16: View Of Coat Hook Fasteners
Courtesy of GENERAL MOTORS CORP.

11. Remove the coat hook fasteners (1).

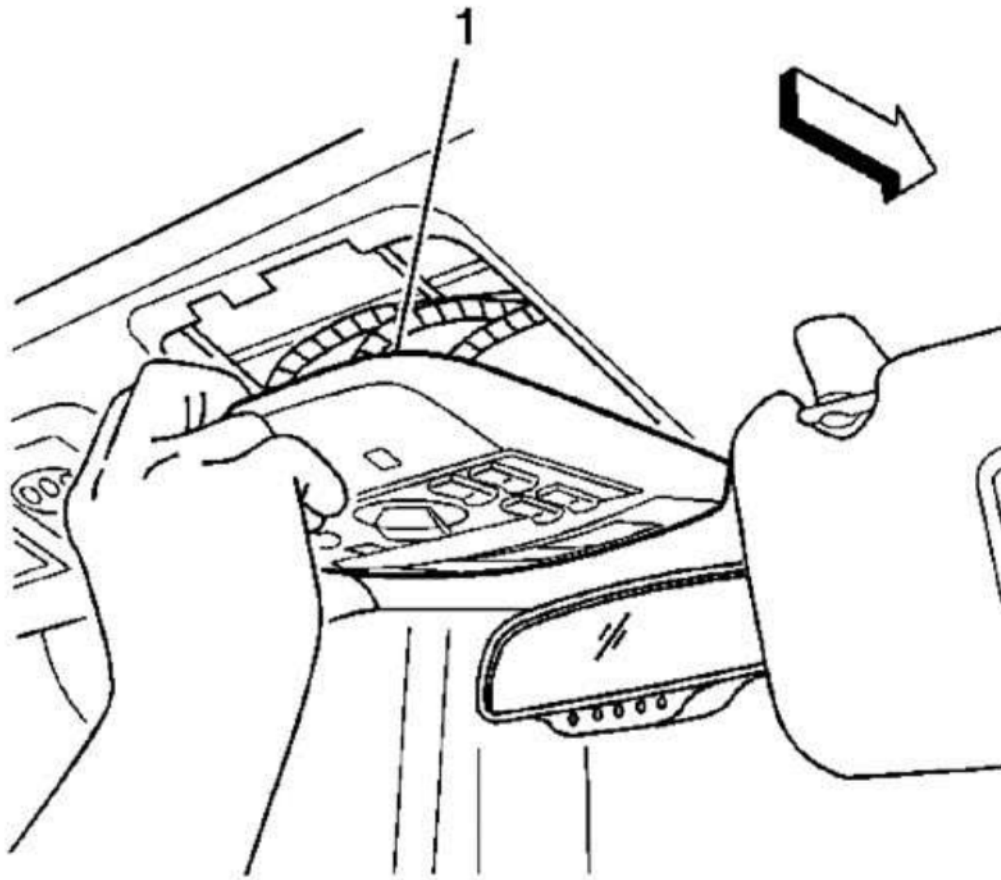


Fig. 17: View Of Overhead Console
Courtesy of GENERAL MOTORS CORP.

12. Remove the overhead console (1). Refer to **Console Replacement - Overhead**.
13. Remove the sunshades. Refer to **Sunshade Replacement**.

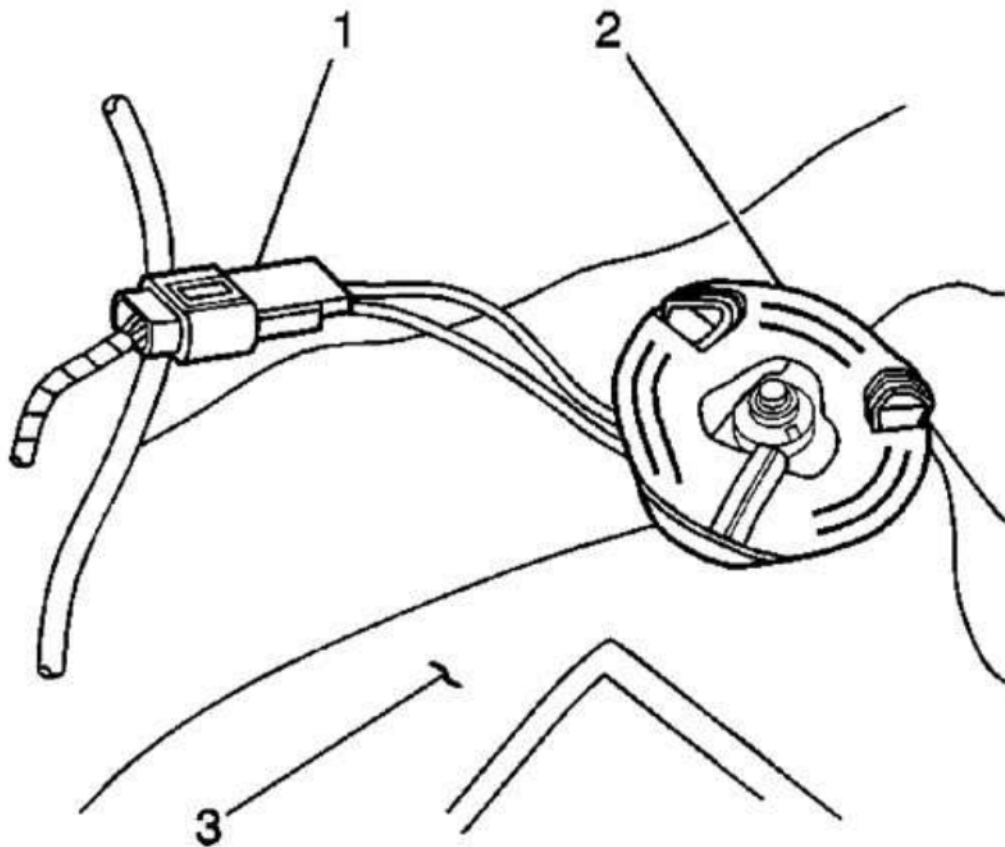


Fig. 18: View Of Retainer Clip/Spacer & Electrical Connector
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The sunshades are secured to the headliner with a 2-piece retainer clip/spacer (2).

14. Ensure that the 3 screws on each side are retrieved as the headliner is lowered.

IMPORTANT: Note the size and location of the retainers for installation.

15. Remove the fasteners for the sunshade rod retainers.
16. Remove the sunshade rod retainers.
17. Disconnect the mirror connector.
18. Remove the cargo lamp. Refer to **Cargo Lamp Replacement** in Lighting Systems.
19. Remove the dome lamp. Refer to **Dome Lamp Replacement** in Lighting Systems.
20. Disconnect the antenna module. Refer to **Antenna Module Replacement (Passenger**

Side) or Antenna Module Replacement (Driver Side) in Entertainment.

21. Disconnect the radio control module.
22. Remove the right side sound insulator.
23. Disconnect the rear washer hose from the connector at the right side lower instrument panel compartment.
24. Disconnect the washer hose at the liftgate.
25. Pull away the exterior weatherstrips on the front window and/or rear vent window opening to the headliner.
26. Disconnect the inline electrical connectors.

NOTE: Use care when removing or installing the headliner. Excessive bending will damage the headliner.

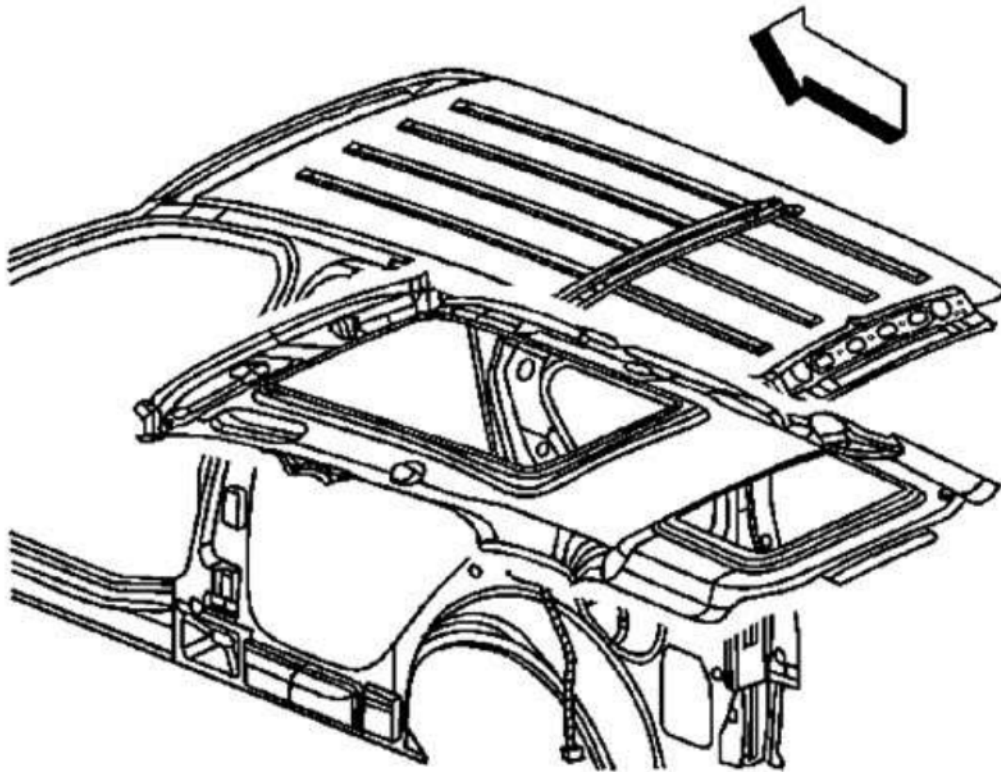


Fig. 19: View Of Headliner
Courtesy of GENERAL MOTORS CORP.

27. Lower the headliner.

28. With the aid from an assistant, remove the headliner through the lift gate opening.

Installation Procedure

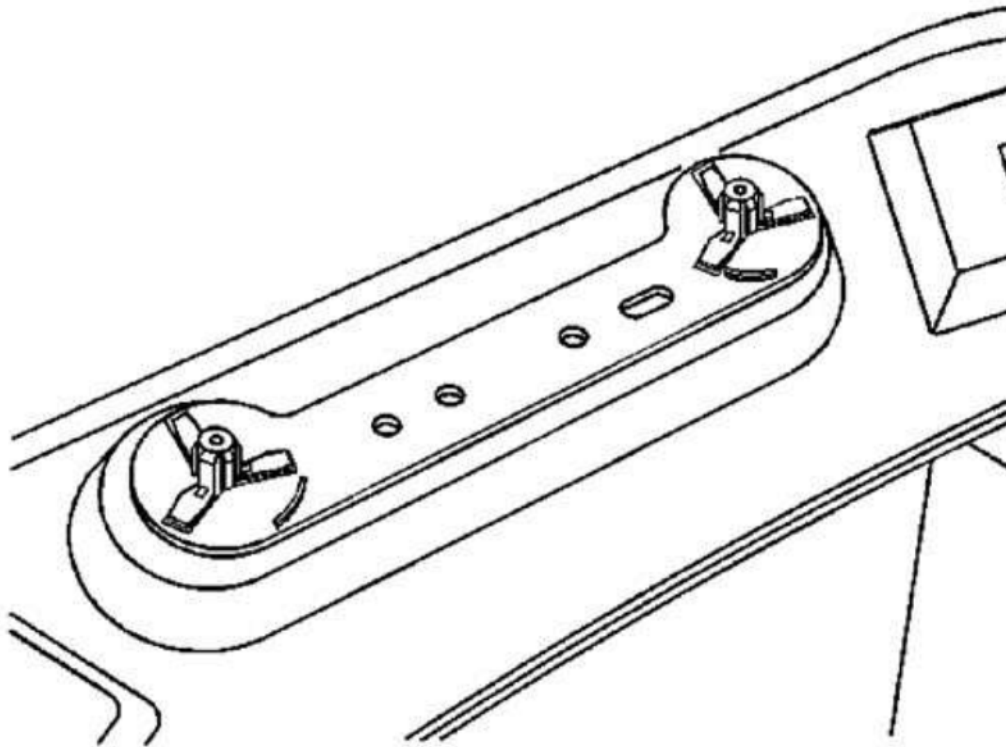


Fig. 20: View Of Front Assist Handle Retainers
Courtesy of GENERAL MOTORS CORP.

1. Install the front assist handle retainers.
2. Install the assist handles and loosely install the fasteners in the integral retainer clips in order to hold the handles into position.

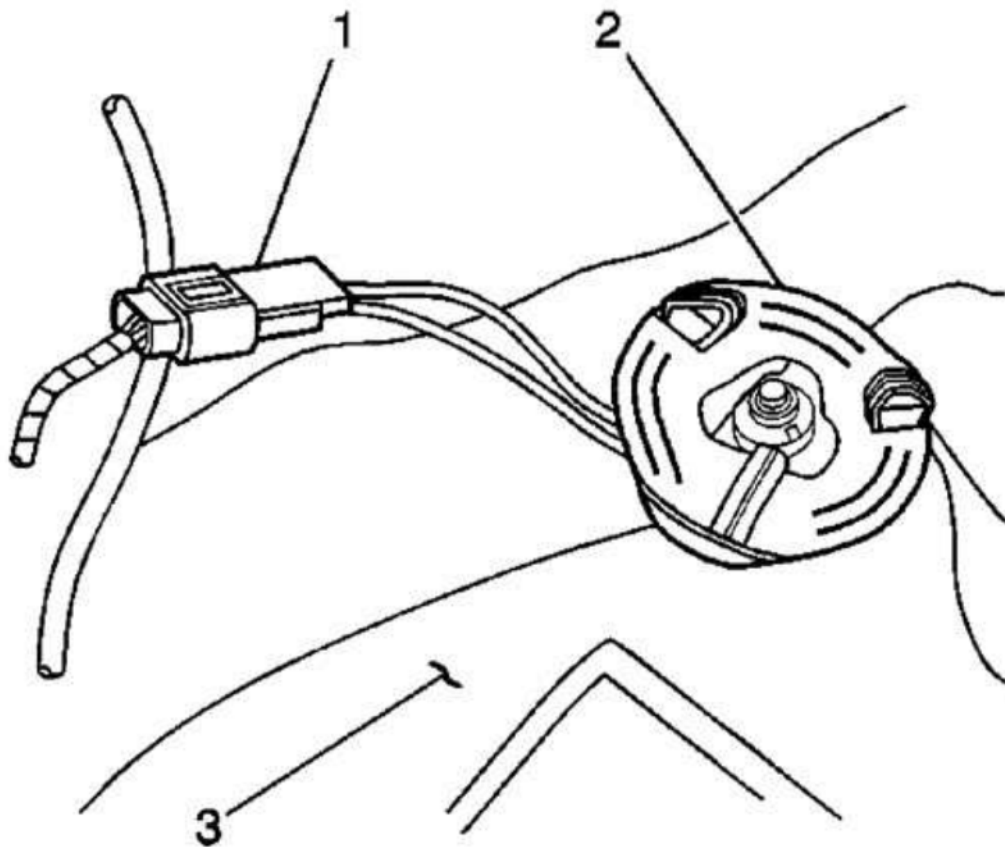


Fig. 21: View Of Retainer Clip/Spacer & Electrical Connector
Courtesy of GENERAL MOTORS CORP.

3. Install the sunshades to the headliner.

IMPORTANT: The electrical harness is placed between the headliner and the plastic retainer clip.

4. Position the electrical harness between the headliner and retainer clip.
5. Install the metal retainer ring (2).
6. Loosely install the fasteners.
7. Connect the electrical connectors (1).

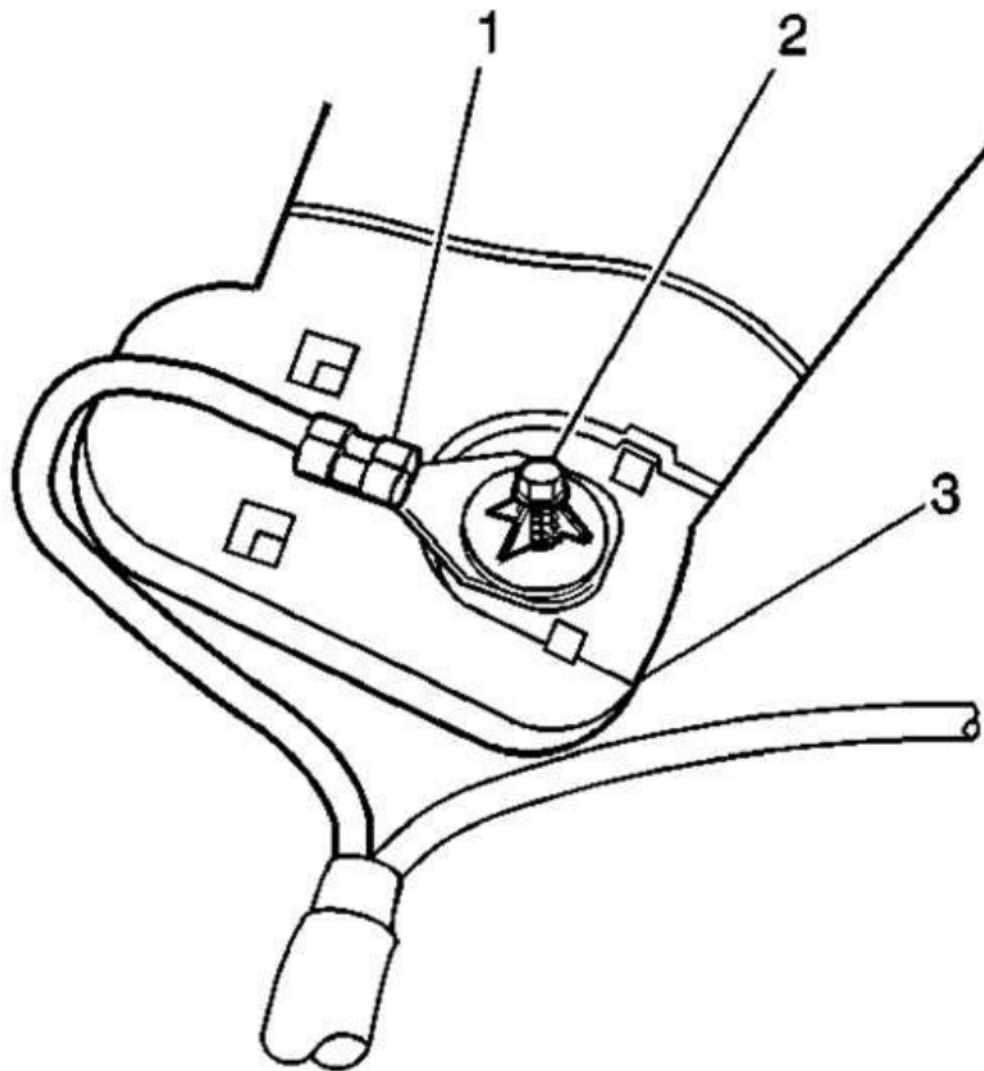


Fig. 22: View Of Overhead Console Bracket, Sunshade Retainer & Ground Strap
Courtesy of GENERAL MOTORS CORP.

8. Install the sunshade rod retainers.
9. Install the overhead console to the headliner.
10. On the right side, install the bolt through the sunshade rod retainer and through the overhead console bracket.
11. Position the ground strap (1) onto the bolt (2).
12. Install the metal retainer clip over the bolt in order to hold the ground strap into position.
13. Install the left sunshade rod retainer.

14. Loosely install the fastener.

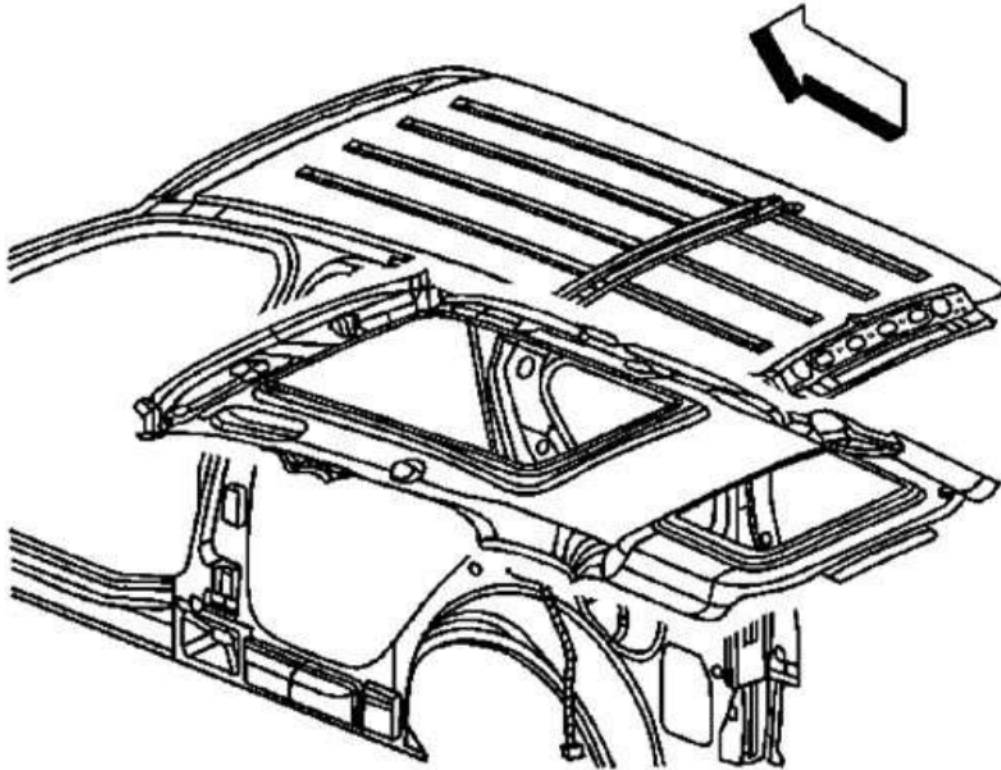


Fig. 23: View Of Headliner
Courtesy of GENERAL MOTORS CORP.

15. With the aid from an assistant, position the headliner to the roof.

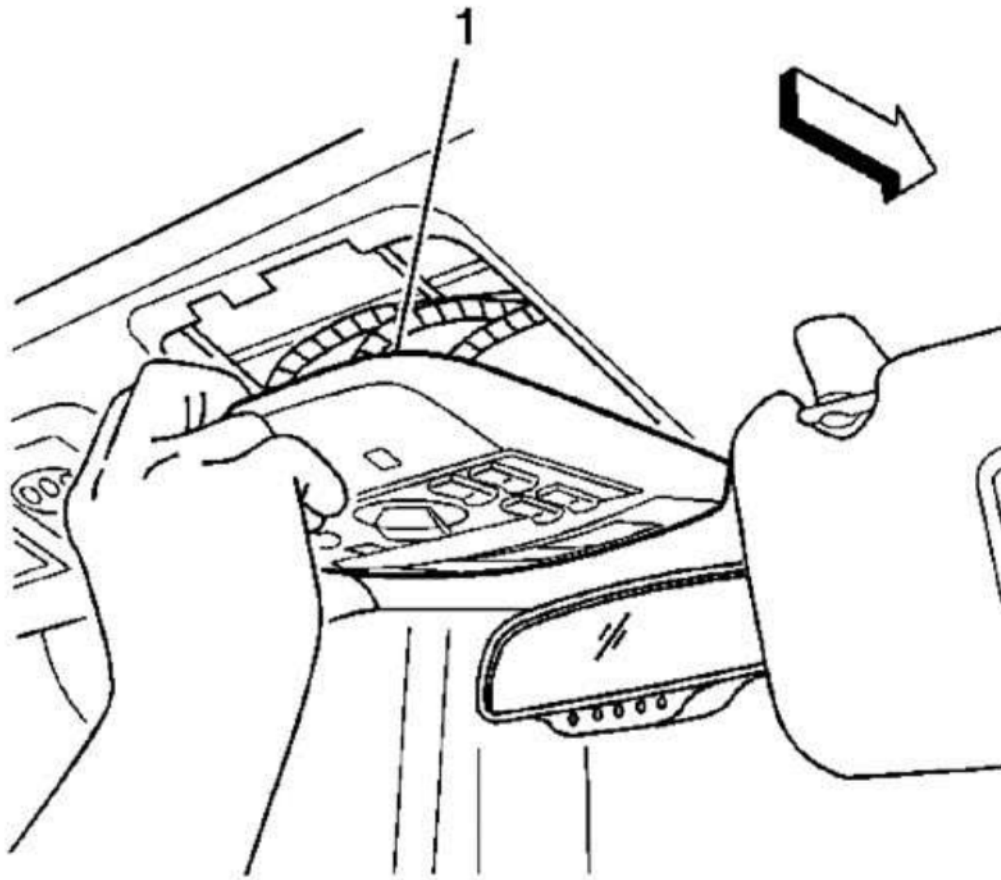


Fig. 24: View Of Overhead Console
Courtesy of GENERAL MOTORS CORP.

16. Install the overhead console (1). Refer to Console Replacement - Overhead .

NOTE: Refer to Fastener Notice in Cautions and Notices.

17. Secure both front assist handles in order to hold the headliner in place.

Tighten: Tighten the assist handle screws to 2 N.m (18 lb in).

18. Install the assist handle bezel covers.
19. Install the dome lamp. Refer to Dome Lamp Replacement in Lighting Systems.
20. Install the cargo lamp. Refer to Cargo Lamp Replacement in Lighting Systems.

NOTE: Refer to Fastener Notice in Cautions and Notices.

21. Secure both sunshades.

Tighten: Tighten the outer sunshade bezel fasteners to 2 N.m (18 lb in).

22. Secure the right side sunshade rod retainer.

Tighten: Tighten the right side to 10 N.m (88 lb in).

23. Secure the left side sunshade rod retainer.

Tighten: Tighten the left side to 2 N.m (18 lb in).

24. Position the sunshades to the headliner.

25. Connect the connector lead for the antenna module to the rear window. Refer to **Antenna Module Replacement (Passenger Side)** or **Antenna Module Replacement (Driver Side)** in Entertainment.

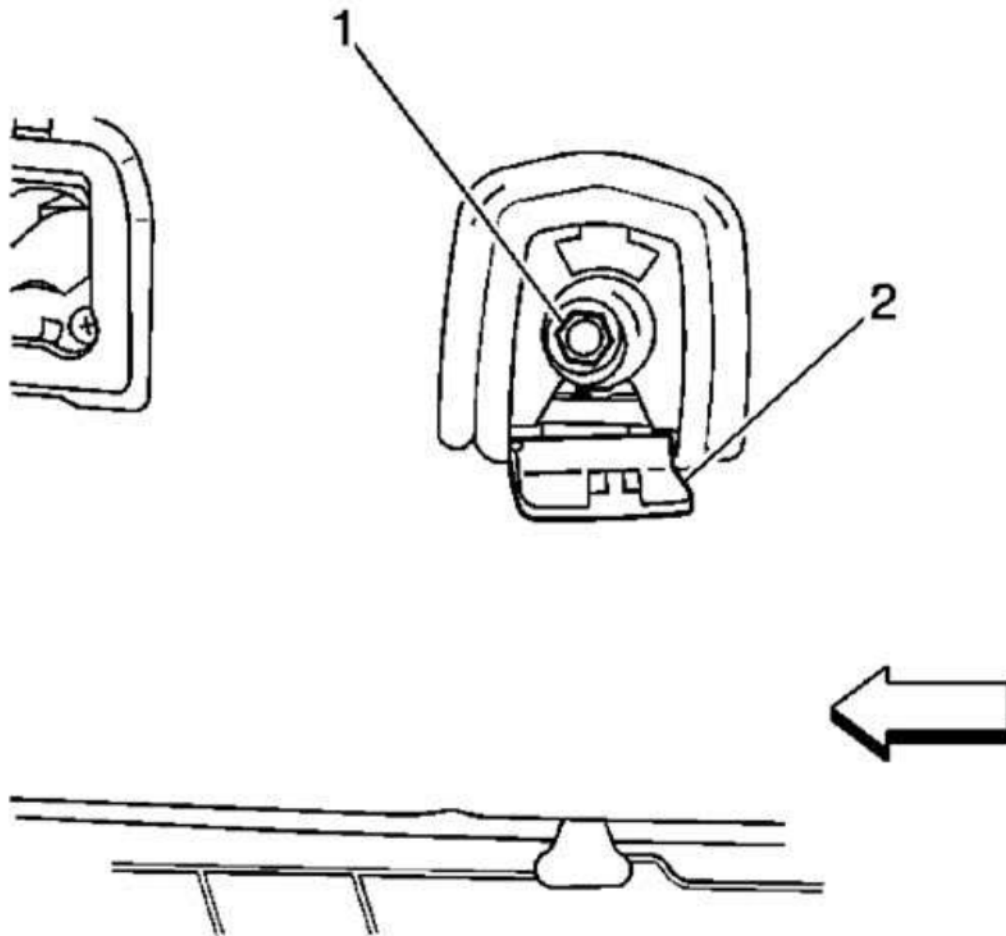


Fig. 25: View Of Coat Hook Fasteners
Courtesy of GENERAL MOTORS CORP.

26. Install the coat hook fastener (2).

Tighten: Tighten the fastener to 10 N.m (88 lb in).

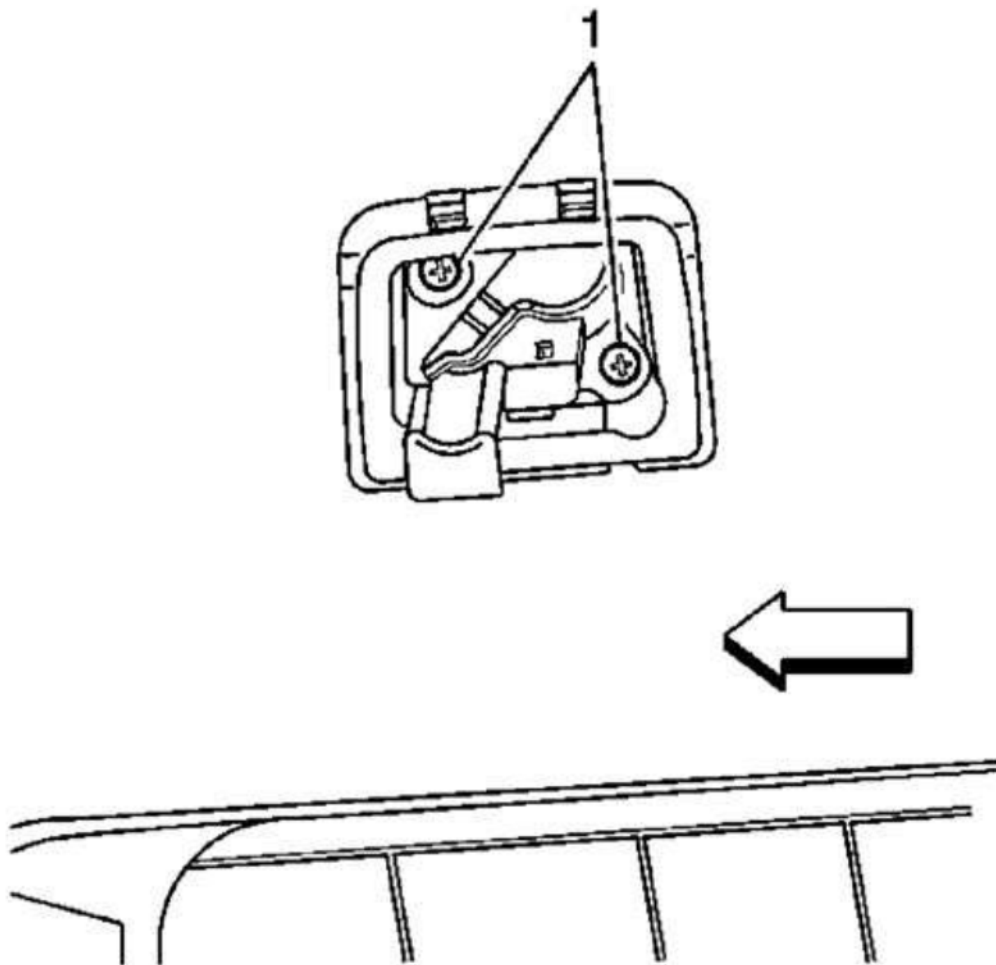


Fig. 26: Locating Cargo Tie Down Bezels Fasteners
Courtesy of GENERAL MOTORS CORP.

27. Install the cargo tie down bezel (1).

Tighten: Tighten the fasteners to 2 N.m (18 lb in).

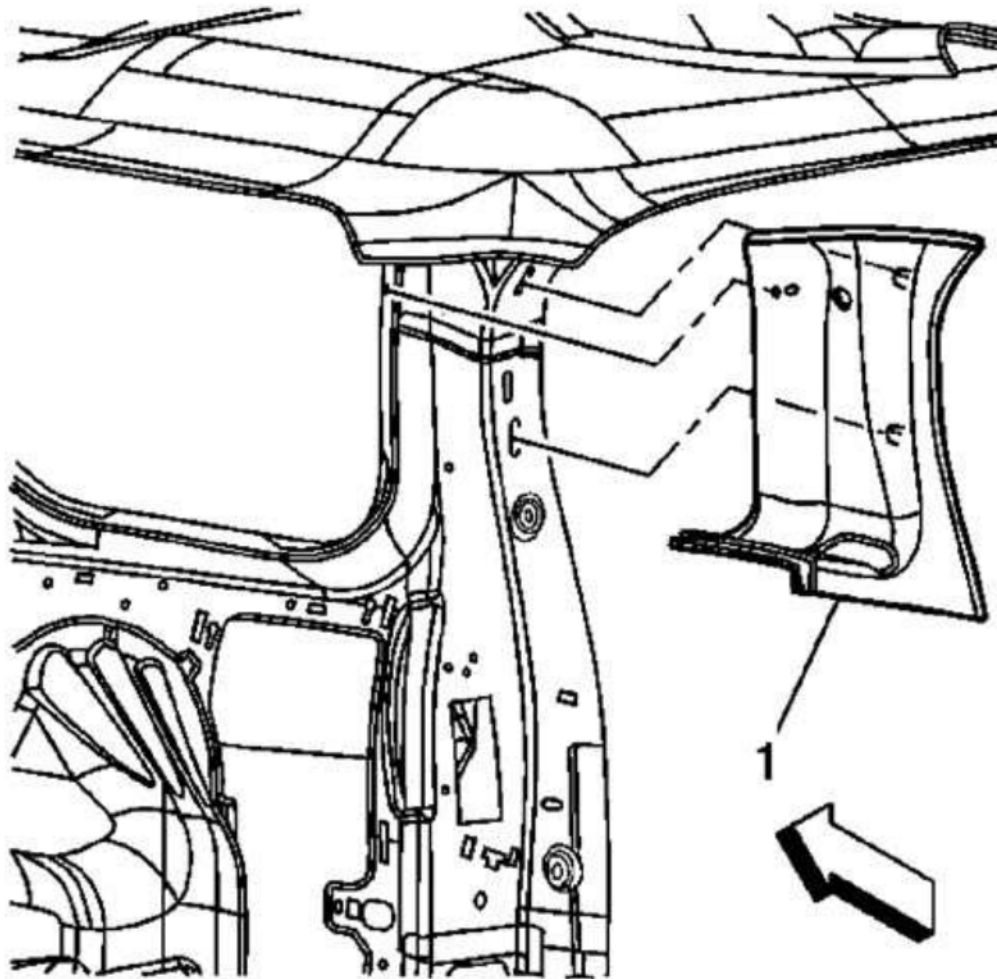


Fig. 27: View Of Body Side Upper Garnish Moldings
Courtesy of GENERAL MOTORS CORP.

28. Install the body side rear upper garnish molding (1). Refer to **Garnish Molding Replacement - Body Side Rear Upper**.

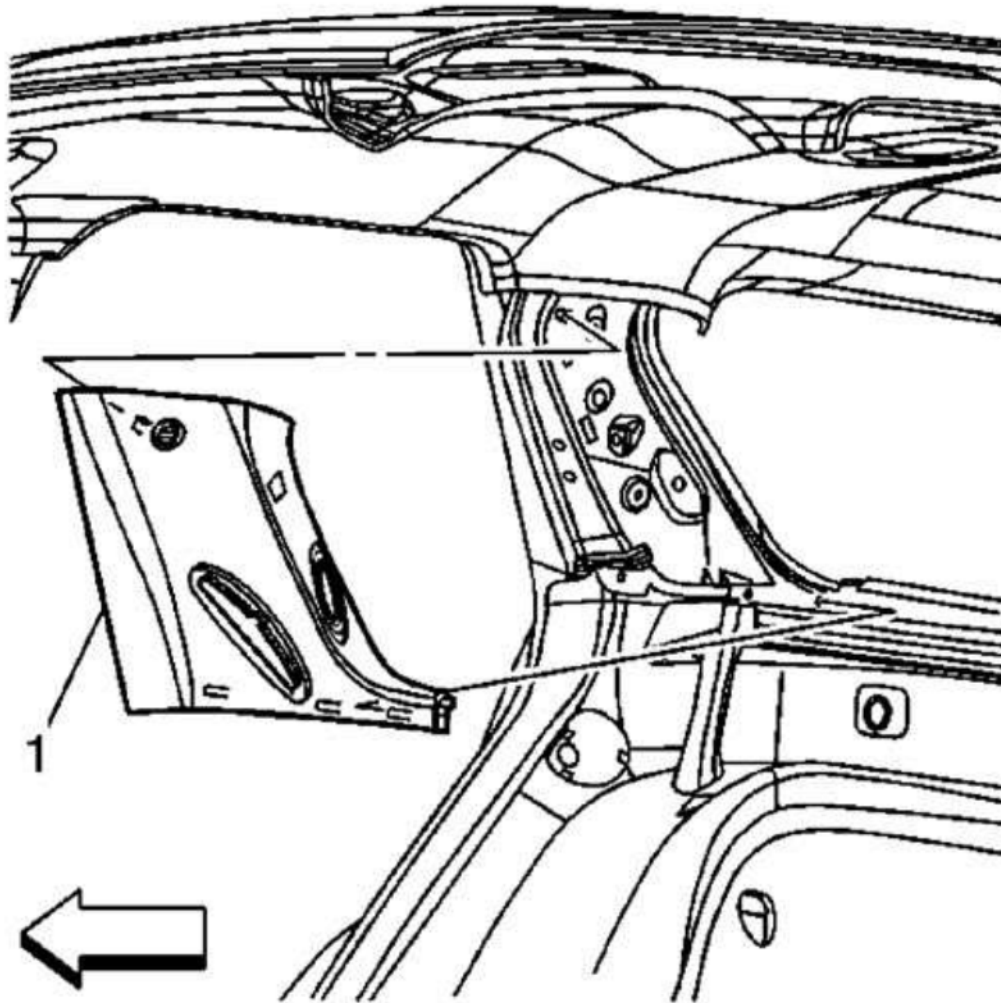


Fig. 28: View Of Side Door Opening Frame Garnish Molding
Courtesy of GENERAL MOTORS CORP.

29. Install the side door opening frame garnish molding (1). Refer to **Garnish Molding Replacement - Side Door Opening Frame**.

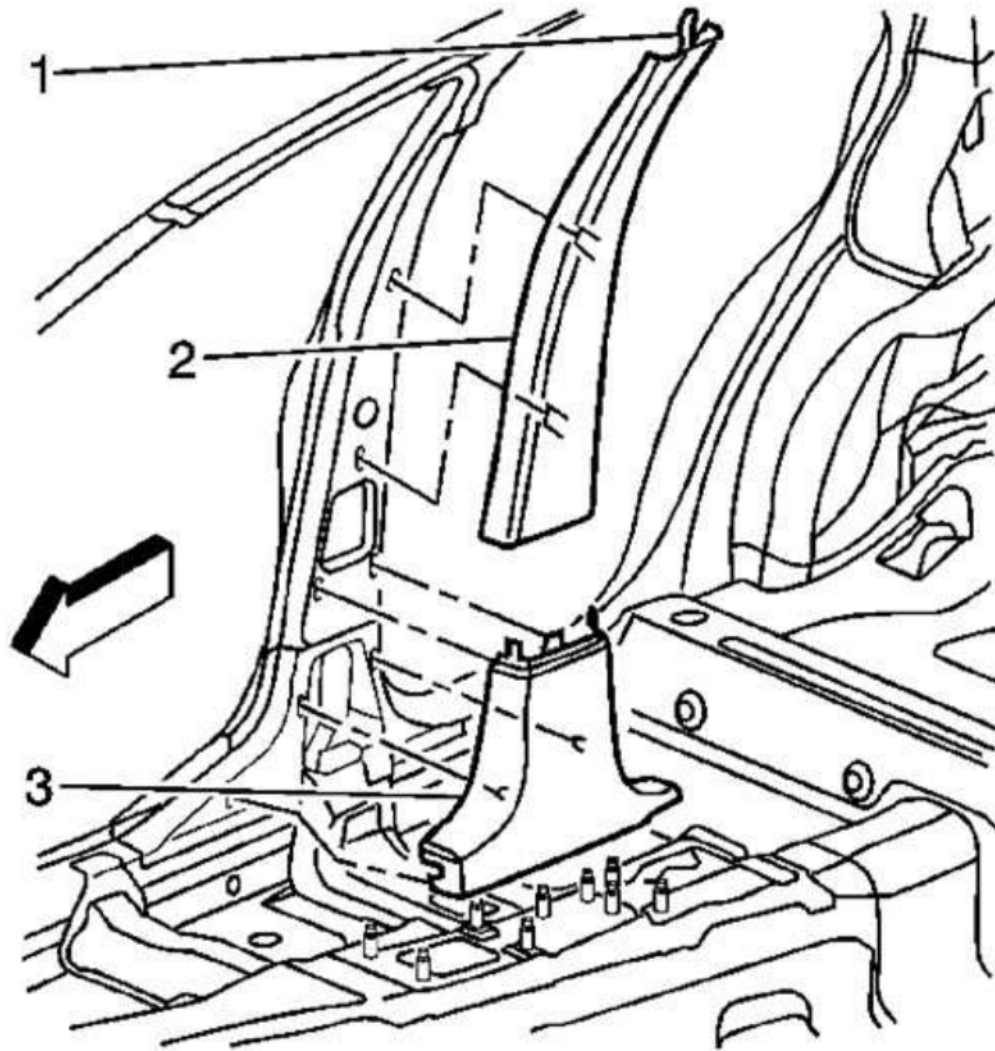


Fig. 29: View Of Center Pillar Garnish Moldings
Courtesy of GENERAL MOTORS CORP.

30. Install the center pillar garnish moldings (2, 3). Refer to **Garnish Molding Replacement - Center Pillar**.
31. Connect the rear washer front hose connection at the lower right side of the instrument panel.
32. Install the right side sound insulator.

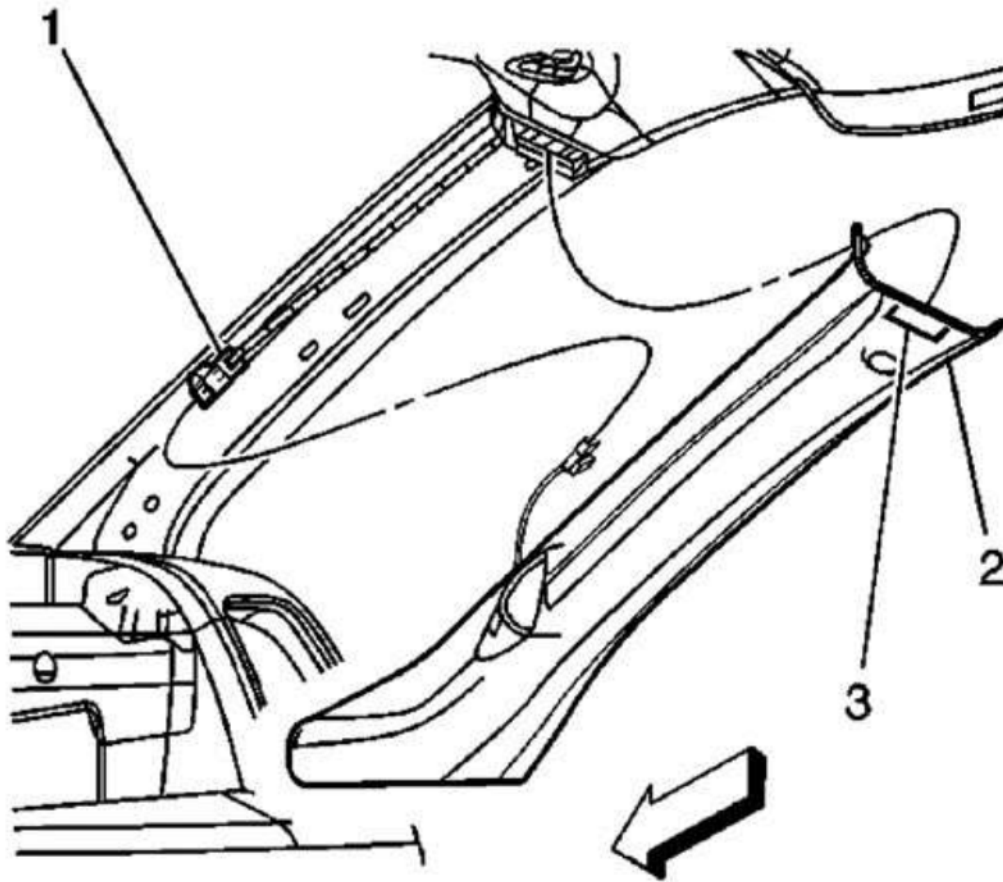


Fig. 30: Locating Front Upper Speaker Components
Courtesy of GENERAL MOTORS CORP.

33. Install the windshield pillar garnish moldings (2). Refer to **Garnish Molding Replacement - Windshield Pillar**.
34. Reposition the sunroof front window and/or rear vent window finish lace around the opening in the headliner.
35. Enable the SIR system. Refer to **SIR Disabling and Enabling Zone 2** and **SIR Disabling and Enabling Zone 6** in SIR.

ASSIST HANDLE REPLACEMENT - FRONT

Removal Procedure

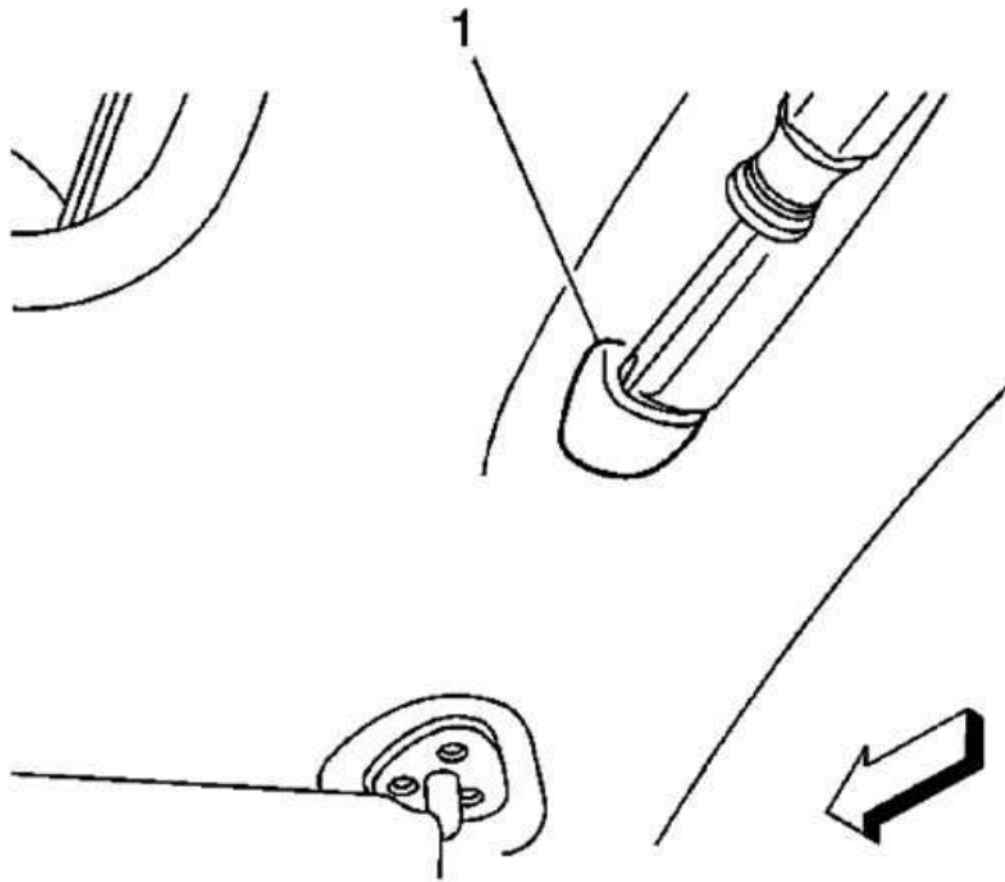


Fig. 31: View Of Escutcheons

Courtesy of GENERAL MOTORS CORP.

1. Using a flat-bladed tool, gently pry out the outer edge of the escutcheons (1) and push inward.
2. Slide the escutcheon toward the center of the assist handle.

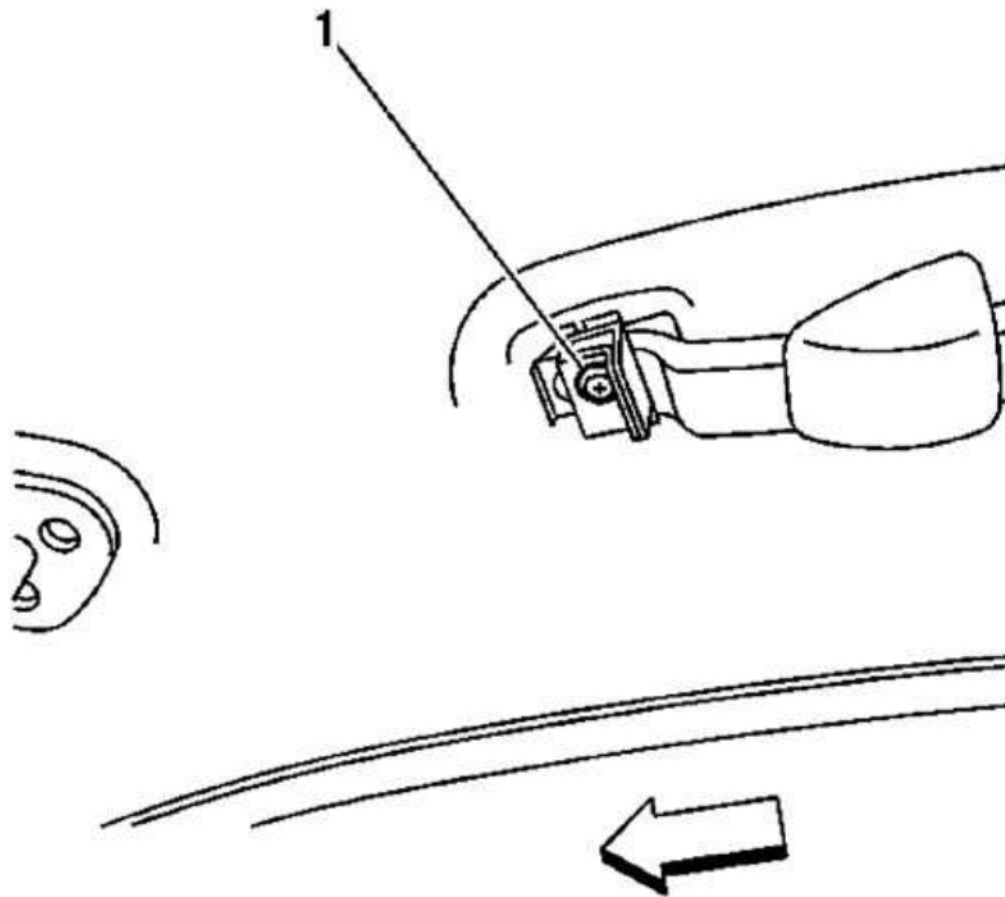


Fig. 32: View Of Assist Handle Retaining Screws
Courtesy of GENERAL MOTORS CORP.

3. Remove the 2 screws (1) that retain the assist handle to the roof panel.
4. Remove the assist handle.

Installation Procedure

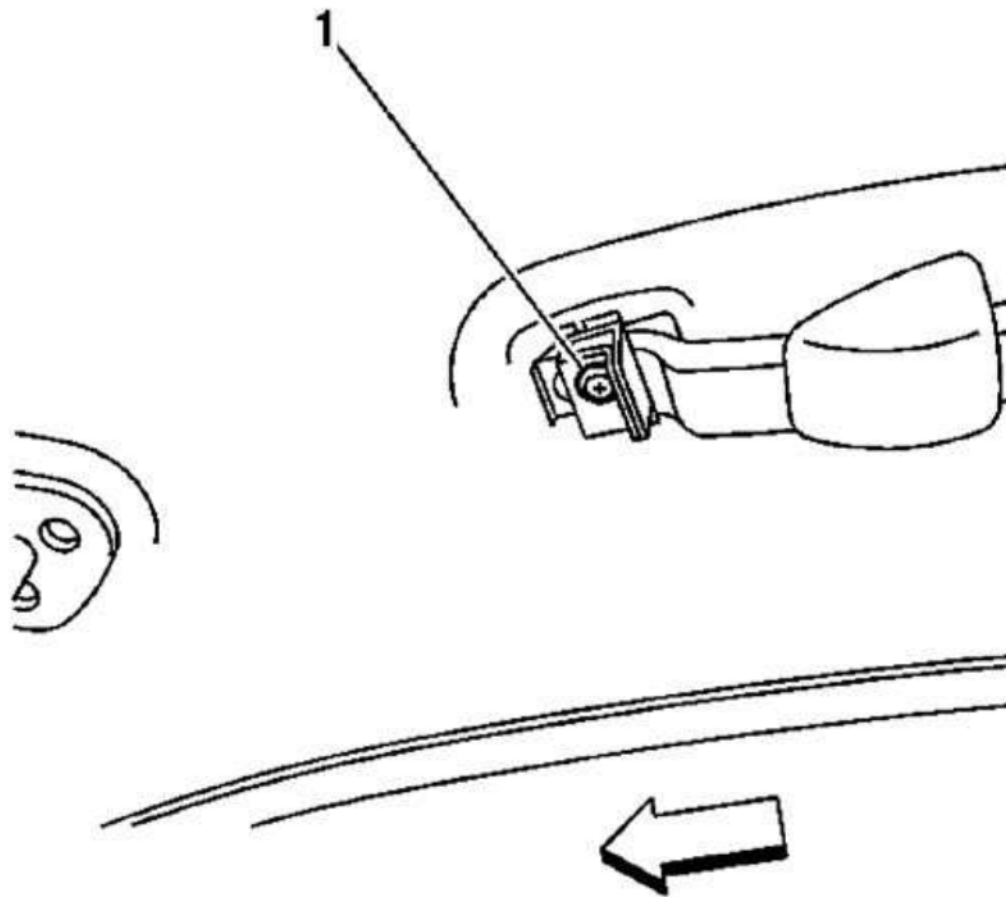


Fig. 33: View Of Assist Handle Retaining Screws
Courtesy of GENERAL MOTORS CORP.

1. Position the assist handle to the headliner.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the two fasteners (1) to retain the assist handle to the roof panel.

Tighten: Tighten the 2 screws to 2 N.m (18 lb in).

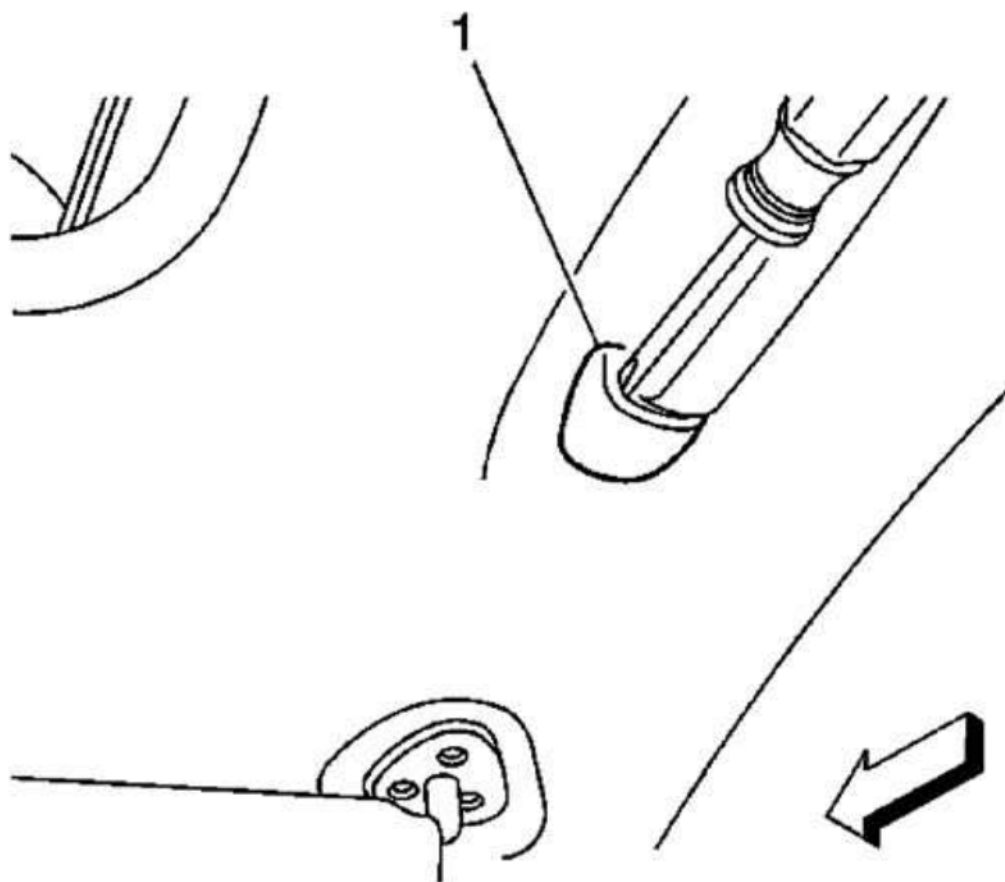


Fig. 34: View Of Escutcheons
Courtesy of GENERAL MOTORS CORP.

3. Secure the assist handle escutcheons (1) to the outer edges of the assist handle.
4. Snap the escutcheons in place to secure.

ASSIST HANDLE REPLACEMENT - REAR

Removal Procedure

1. Remove the center pillar garnish trim. Refer to **Garnish Molding Replacement - Center Pillar**.
2. Lower the headliner to access the assist handle fastener. Refer to **Headliner Replacement**.

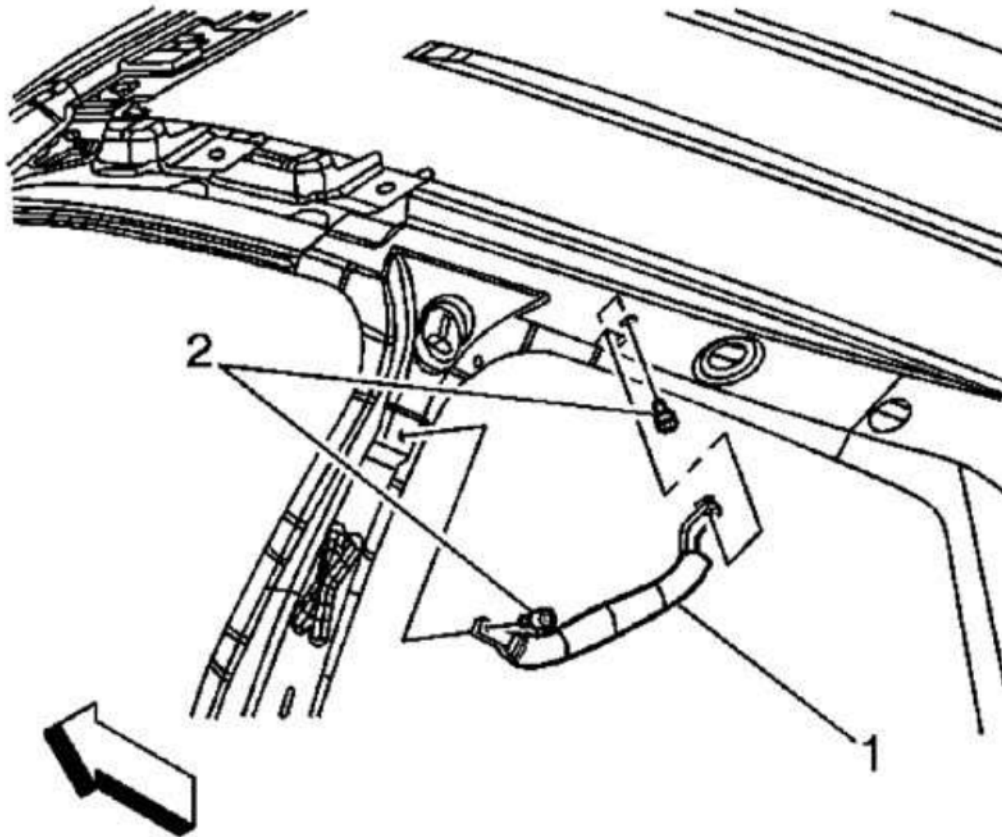


Fig. 35: View Of Rear Assist Handle & Screws
Courtesy of GENERAL MOTORS CORP.

3. Remove the 2 screws (2) that retain the assist handle (1) to the roof.
4. Remove the assist handle.

Installation Procedure

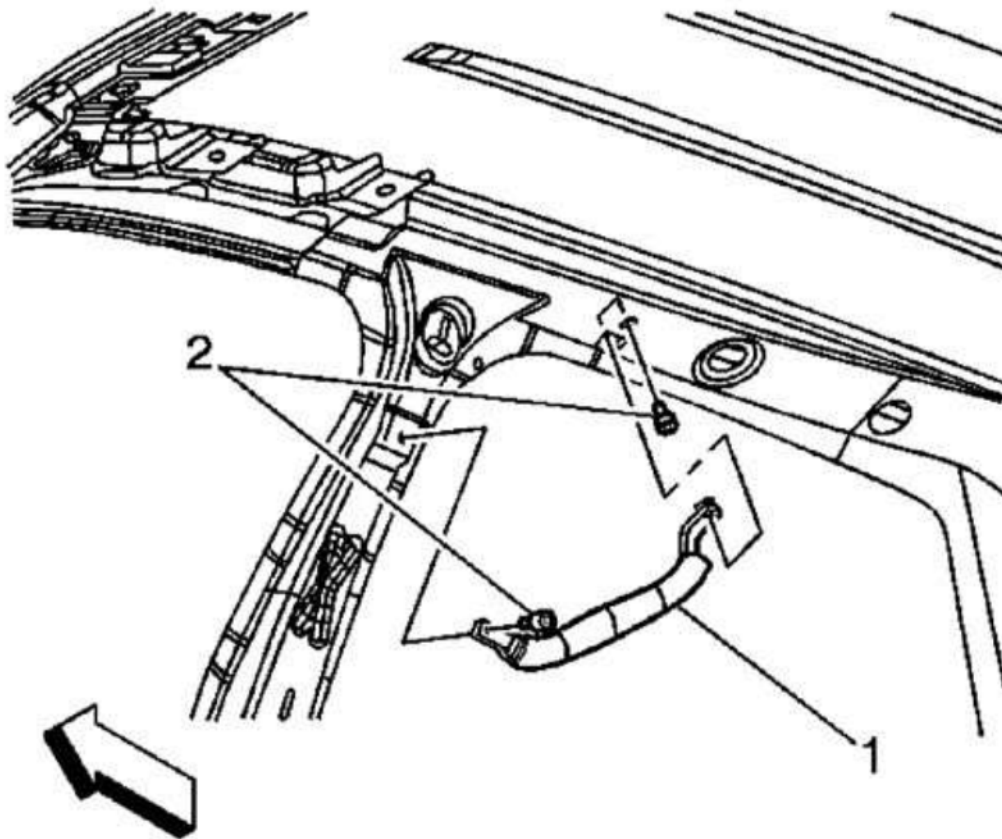


Fig. 36: View Of Rear Assist Handle & Screws
Courtesy of GENERAL MOTORS CORP.

1. Position the assist handle (1) to the roof.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the two fasteners in order to retain the assist handle to the roof.

Tighten: Tighten the 2 screws to 2 N.m (18 lb in).

3. Install the headliner. Refer to **Headliner Replacement**.
4. Remove the center pillar garnish trim. Refer to **Garnish Molding Replacement - Center Pillar**.

CONSOLE REPLACEMENT - OVERHEAD

Removal Procedure

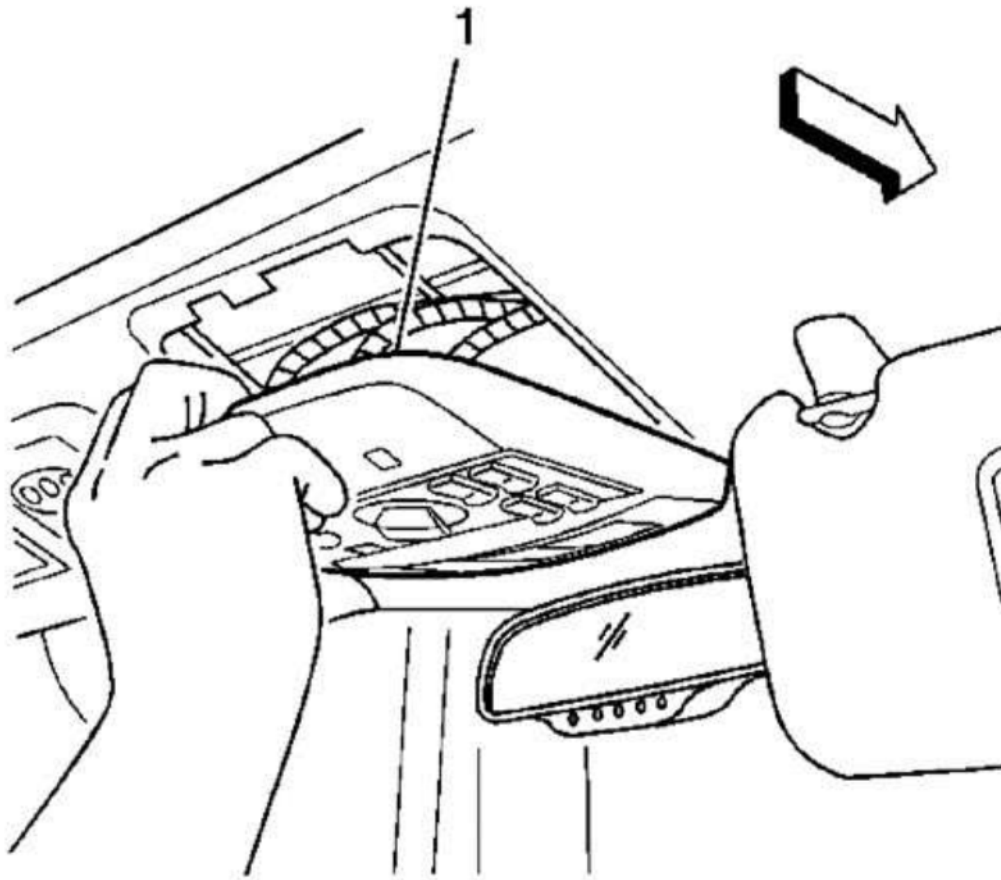


Fig. 37: View Of Overhead Console
Courtesy of GENERAL MOTORS CORP.

1. Using your fingers, gently pull downward at the front edge of the overhead console (1).
2. Disconnect the electrical connectors.
3. Remove the overhead console.

Installation Procedure

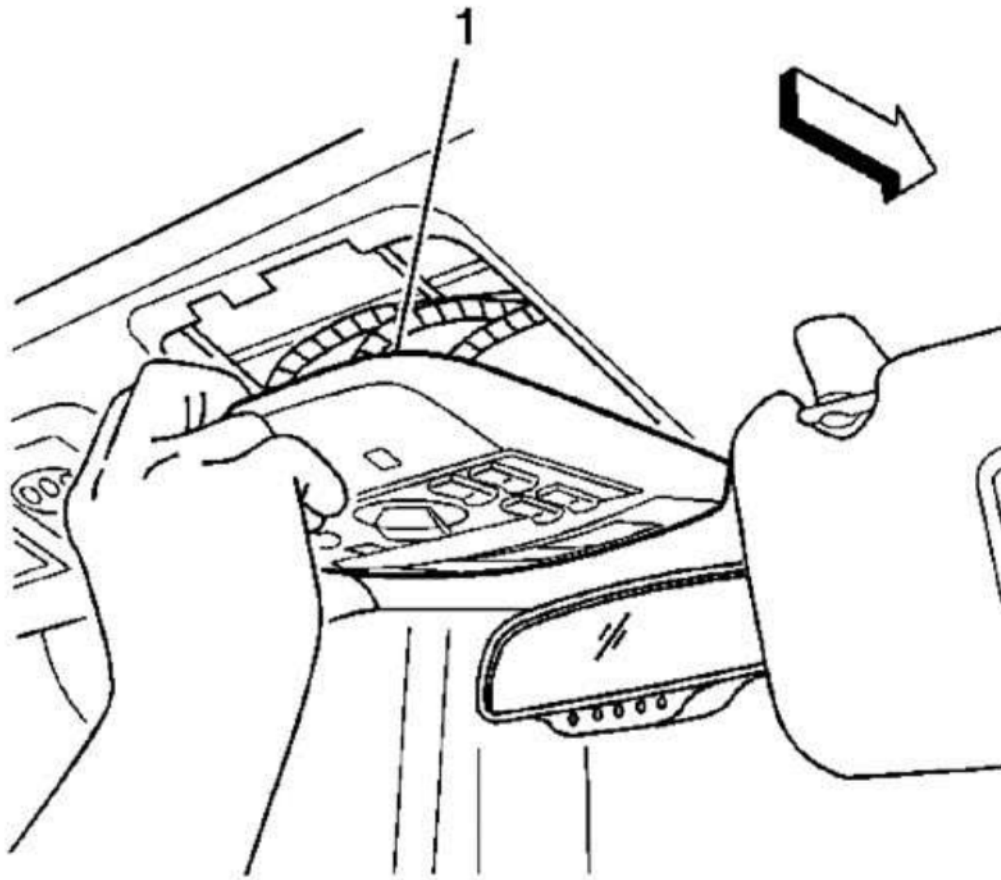


Fig. 38: View Of Overhead Console
Courtesy of GENERAL MOTORS CORP.

1. Connect the electrical connectors.
2. Install the overhead console into the headliner opening.
3. Ensure the locking tabs are properly positioned.
4. Press upward on the overhead console (1) to secure the locking tabs to the console bracket.

SUNSHADE REPLACEMENT

Removal Procedure

1. Detach the sunshade (1) from the sunshade rod retainer clip.
2. Remove the windshield pillar garnish molding. Refer to **Garnish Molding Replacement - Windshield Pillar**.

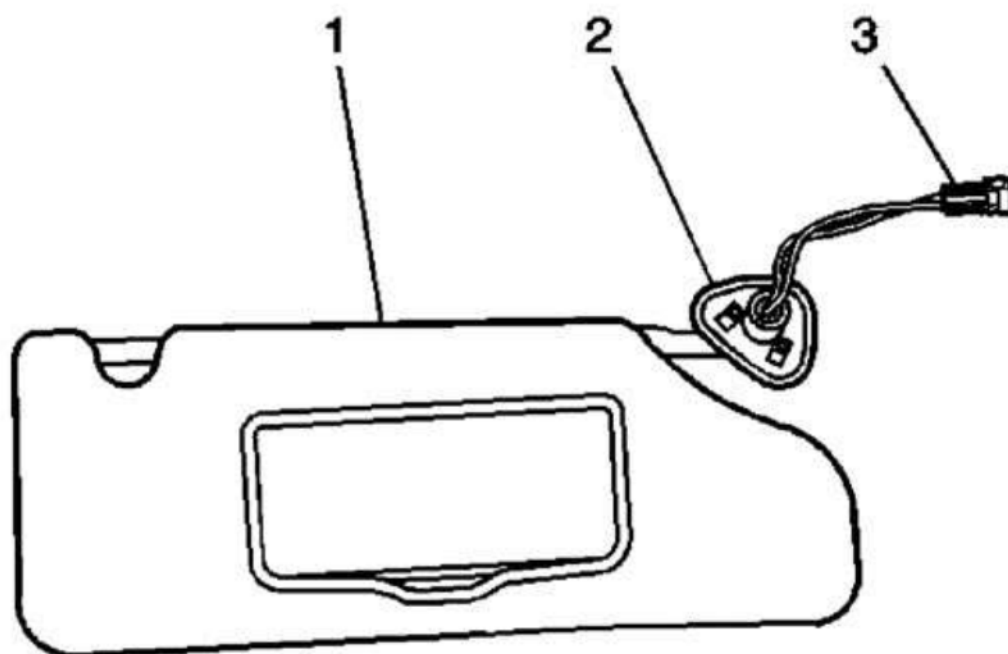


Fig. 39: View Of Sunshade

Courtesy of GENERAL MOTORS CORP.

3. Remove the fasteners from the outboard bezel (2).

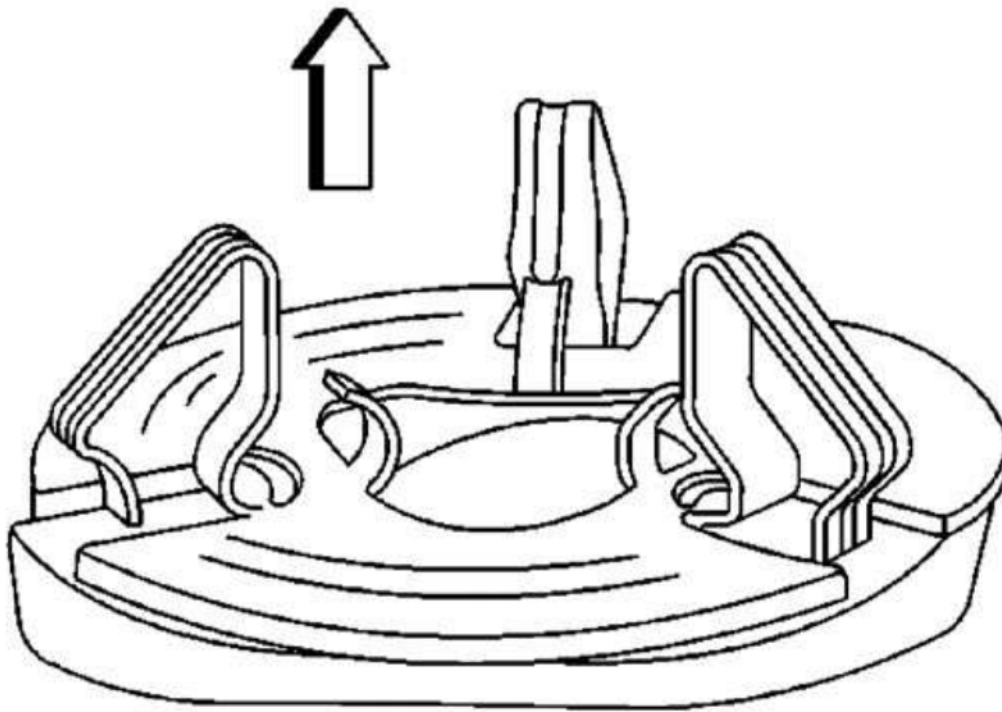


Fig. 40: View Of Sunshade Bezel Retainer
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The sunshade bezel is secure to the roof by means of a two piece plastic retainer and metal integral clip.

4. The plastic retainer will fall out of the headliner (3) when the three fasteners are removed from the bezel.

NOTE: Use care when removing or installing the headliner. Excessive bending will damage the headliner.

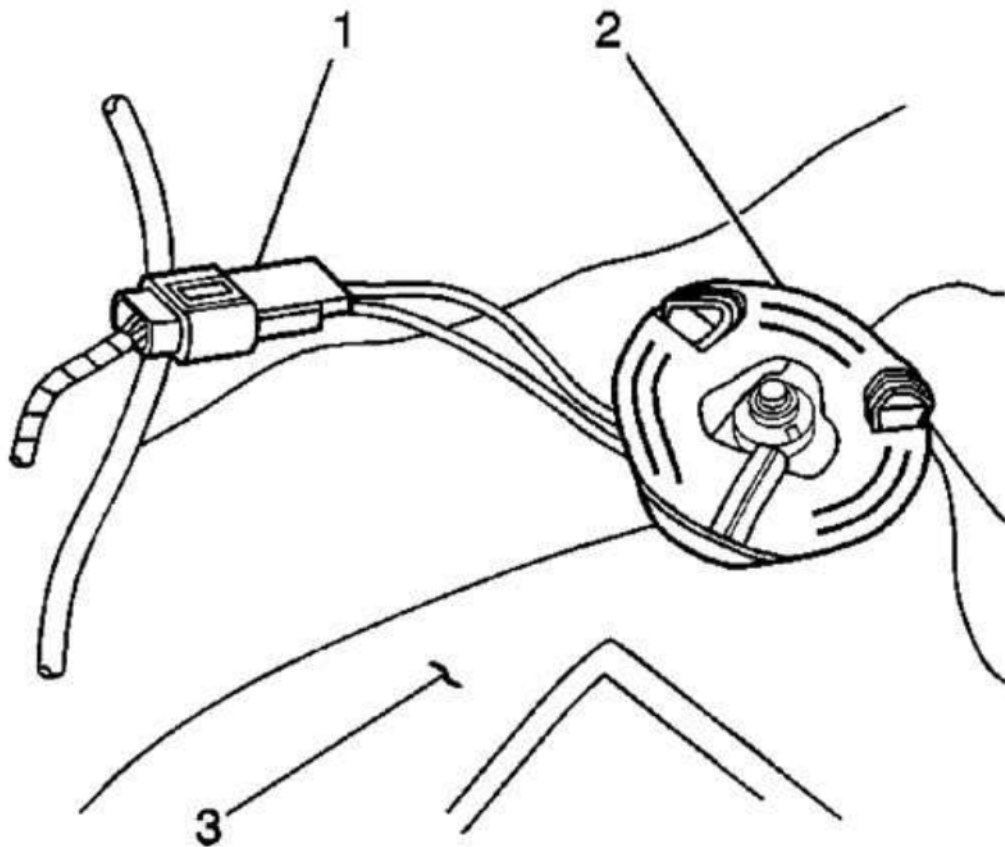


Fig. 41: View Of Retainer Clip/Spacer & Electrical Connector
Courtesy of GENERAL MOTORS CORP.

5. Carefully reach inside the headliner until the electrical connector (1) is exposed.
6. Disconnect the electrical connector.
7. Remove the sunshade from the vehicle.

Installation Procedure

1. Position the sunshade to the headliner.

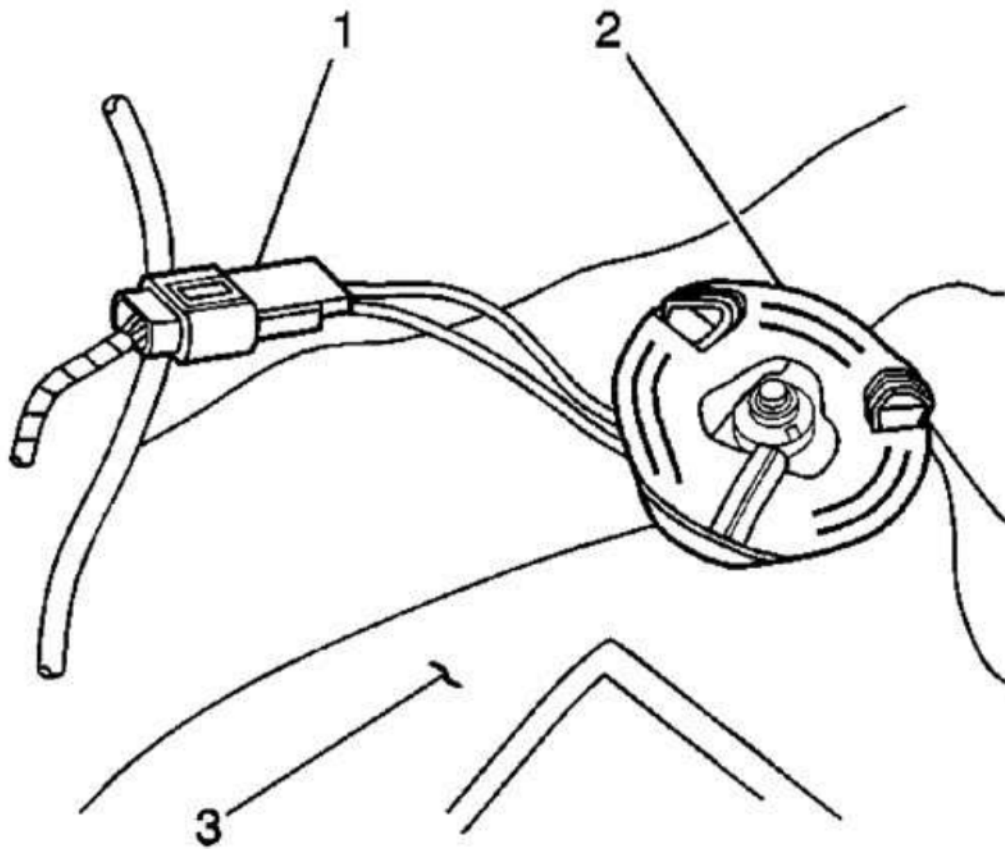


Fig. 42: View Of Retainer Clip/Spacer & Electrical Connector
Courtesy of GENERAL MOTORS CORP.

2. Push the electrical connector and the wiring through the hole in the headliner.
3. Connect the electrical connector (1).
4. Position the plastic retainer (2) over the top of the electrical harness.
5. Align the fasteners to the holes in the sunshade metal integral clip (2).

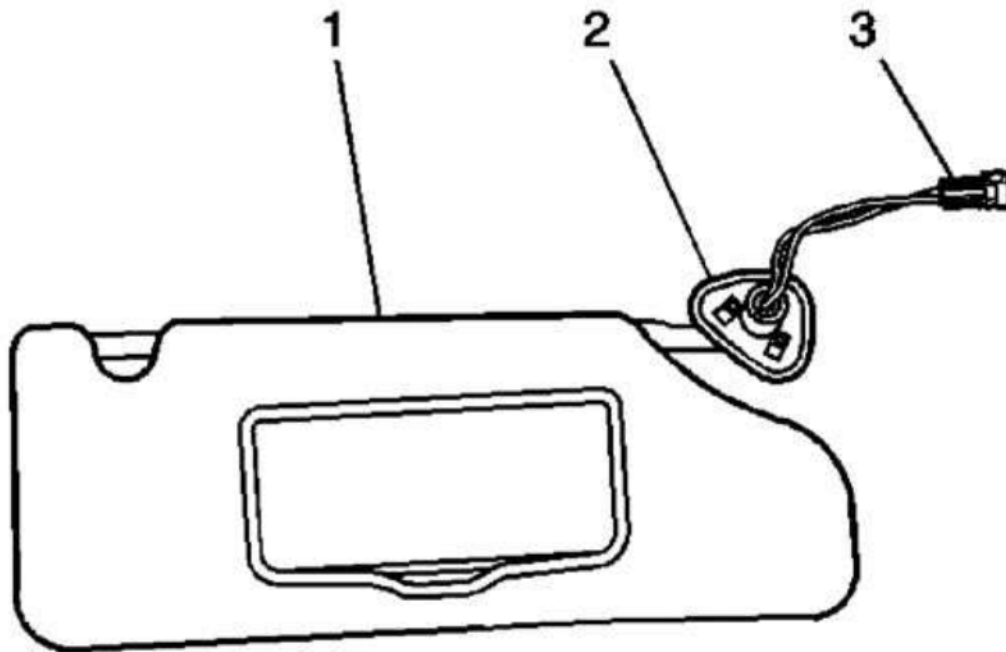


Fig. 43: View Of Sunshade

Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Do not pinch the wiring (3) when you install the fasteners.

NOTE: Refer to Fastener Notice in Cautions and Notices.

6. Install the fasteners that secure the bezel (2) to the headliner.

Tighten: Tighten the fasteners to 2 N.m (18 lb in).

7. Install the windshield pillar garnish molding. Refer to **Garnish Molding Replacement - Windshield Pillar**.
8. Secure the sunshade to the sunshade rod retainer.

SUNSHADE RETAINER BEZEL REPLACEMENT

Removal Procedure

1. Remove the windshield pillar garnish moldings. Refer to **Garnish Molding Replacement - Windshield Pillar**.
2. Detach the sunshades from the sunshade rod retainers.

3. Carefully pry open the sunshade rod retainer cover using a thin flat-bladed tool.

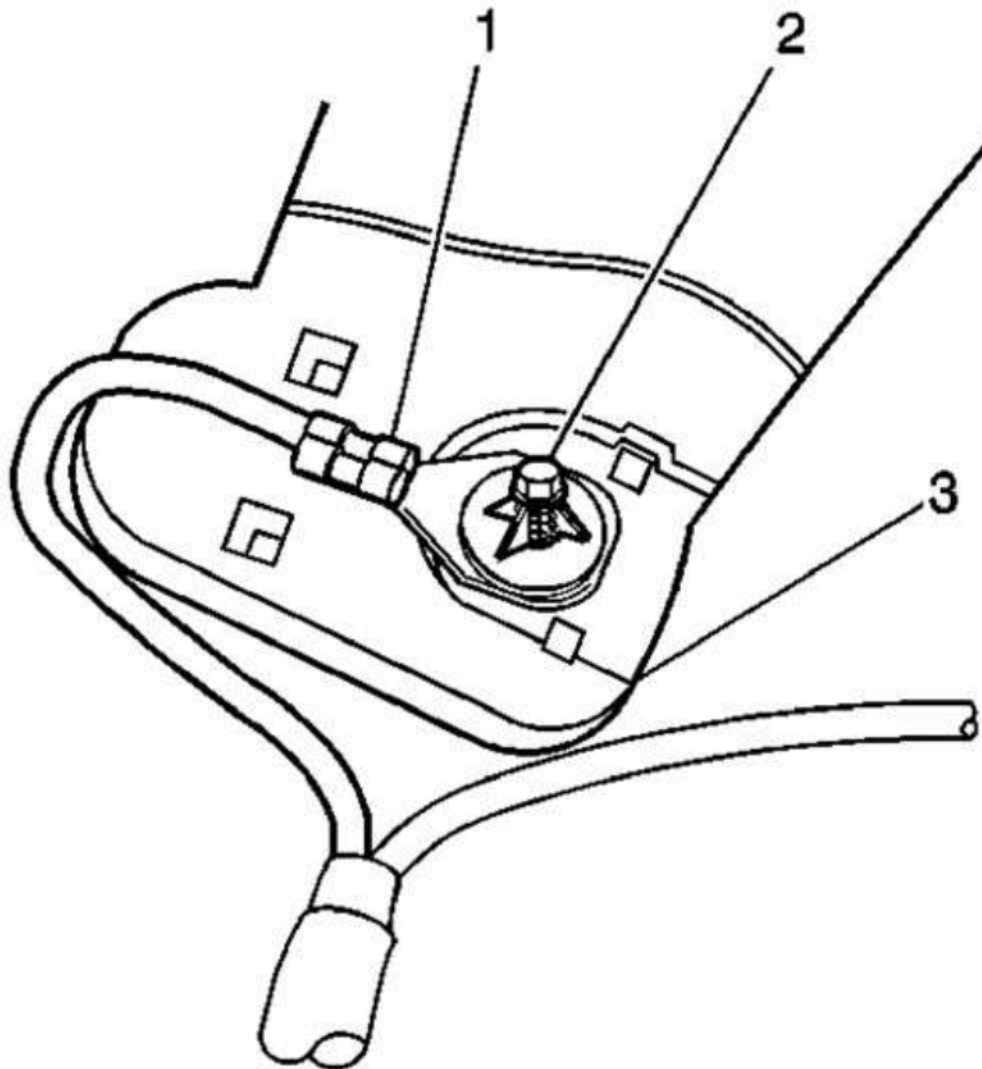


Fig. 44: View Of Overhead Console Bracket, Sunshade Retainer & Ground Strap
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The right side sunshade retainer bezel fastener (2) secures the ground strap (1) for the coaxial cable and the overhead console bracket (3) above the headliner.

4. Ensure to include the ground strap upon re-assembly of the sunshade rod retainer, right side only.

5. Remove the fasteners.
6. Lower the front part of the headliner in order to access the ground strap (1).
7. Remove the right side sunshade bezel from the headliner.
8. Remove the left side sunshade bezel from the headliner.

Installation Procedure

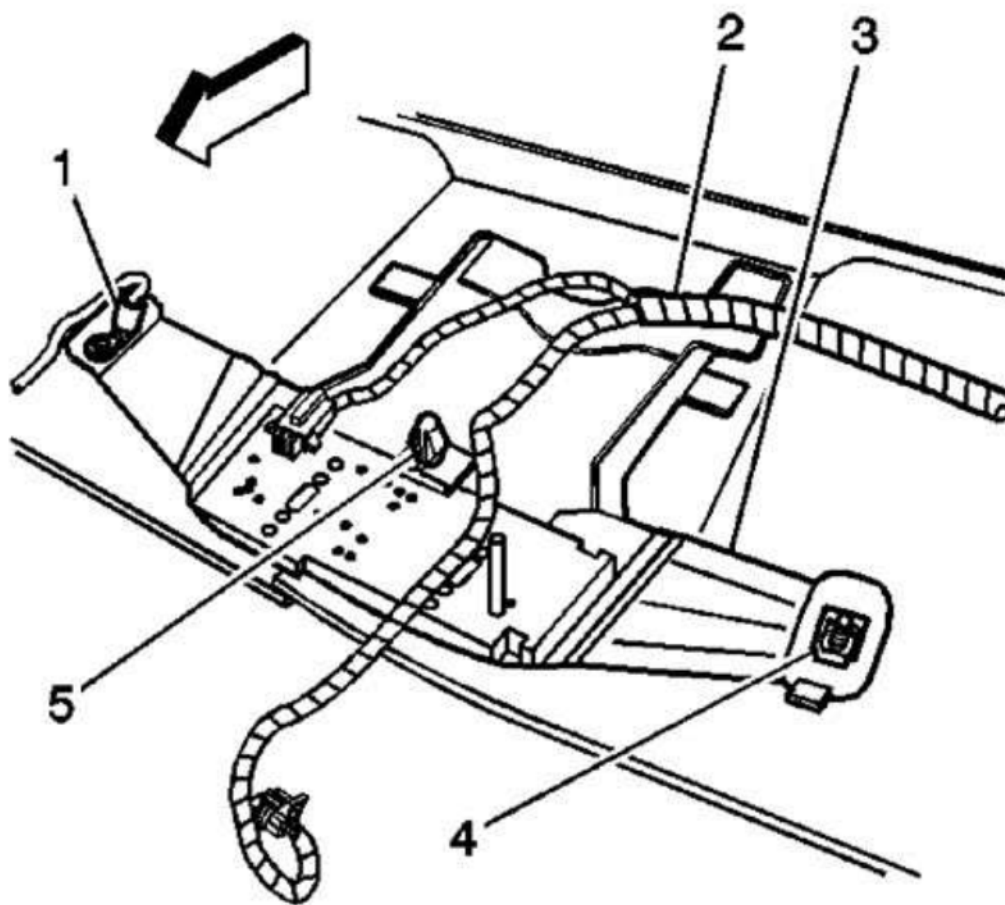


Fig. 45: Installing Sunshade Retainer Bezel
Courtesy of GENERAL MOTORS CORP.

1. Position the bezel to the bottom side of the headliner.
2. Press the bezel upward into place.
3. Position the overhead console bracket (3) to the sunshade rod retainer.
4. Insert the bolt (1) through overhead console bracket (3) and the ground strap.

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5. Install the serrated washer in order to hold the bolt in place prior to installation.

NOTE: Refer to Fastener Notice in Cautions and Notices.

6. Position the bolt to the roof panel.

Tighten: Tighten the right side sunshade rod retainer bolt (1) to 10 N.m (88 lb in).

7. Install the left side sunshade rod retainer fastener (4).

Tighten: Tighten the fastener to 2 N.m (18 lb in).

8. Position both the sunshades to the sunshade rod retainers.

GARNISH MOLDING REPLACEMENT - SIDE DOOR OPENING FRAME

Removal Procedure

1. Remove the air bag screw cover from the garnish molding.

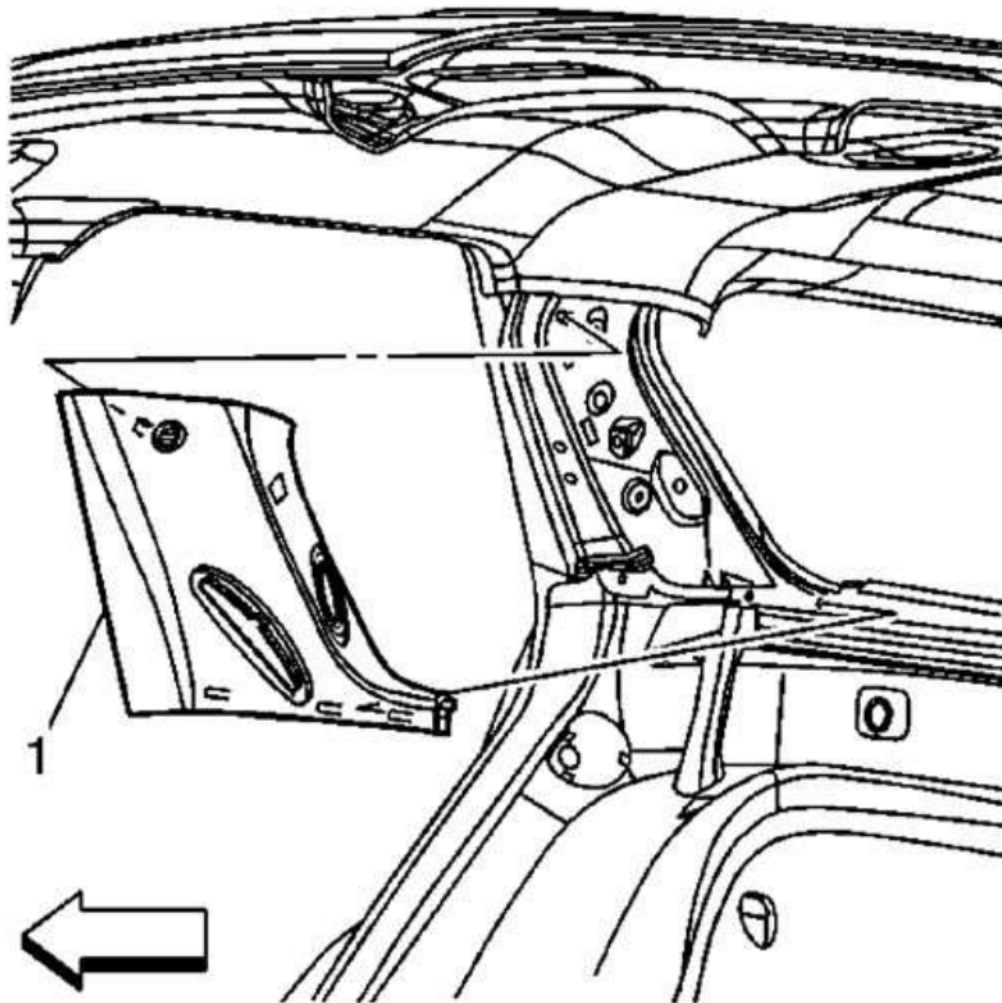


Fig. 46: View Of Side Door Opening Frame Garnish Molding
Courtesy of GENERAL MOTORS CORP.

2. Remove the screw from the garnish molding (1).
3. Remove the side door garnish molding by pulling the panel from the locator holes.
4. Remove the seat belt guide from the garnish molding.
5. Remove the seat belt anchor bolt. Refer to **Seat Belt Retractor Replacement - No. 1 Rear** in Restraints.
6. Slide the seat belt through the garnish molding.
7. Remove the garnish molding.

1. Insert the seat belt through the garnish molding.
2. Insert the seat belt guide into the garnish molding.

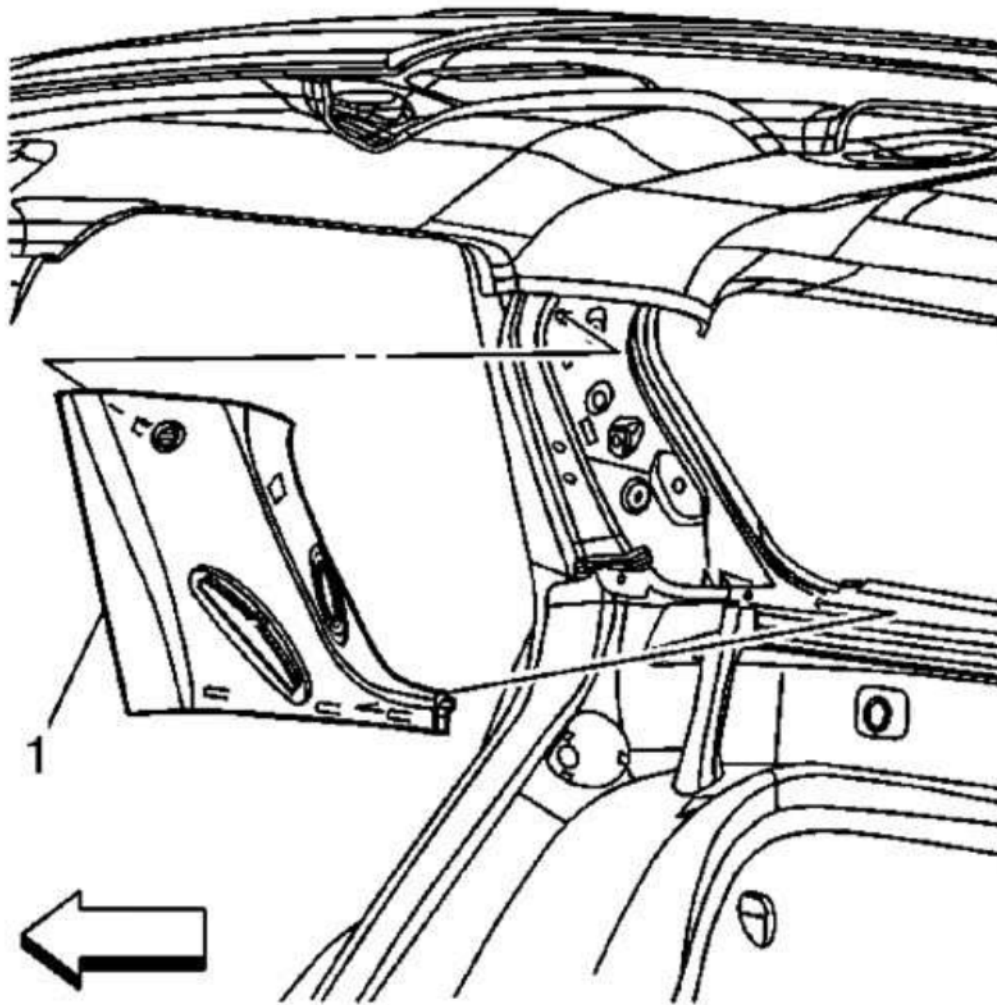


Fig. 47: View Of Side Door Opening Frame Garnish Molding
Courtesy of GENERAL MOTORS CORP.

3. Align the retainers on the side door garnish molding (1) with the holes in the body pillar.
4. Push the panel inward in order to secure the retainers.
5. Install the seat belt anchor bolt. Refer to Seat Belt Retractor Replacement - No. 1 Rear in Restraints.

NOTE: Refer to Fastener Notice in Cautions and Notices.

6. Install the garnish molding screw.

Tighten: Tighten the screw to 2 N.m (18 lb in).

7. Install the air bag screw cover.

GARNISH MOLDING REPLACEMENT - WINDSHIELD PILLAR

Removal Procedure

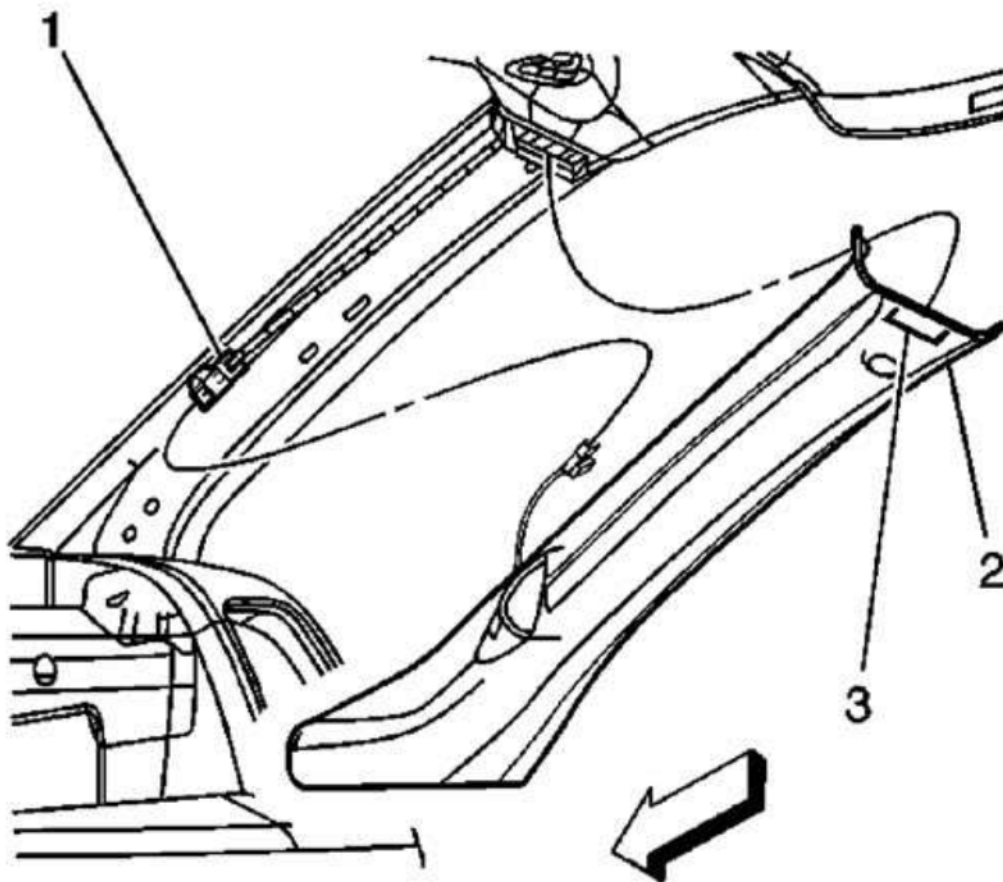


Fig. 48: Locating Front Upper Speaker Components
Courtesy of GENERAL MOTORS CORP.

1. Open the door.
2. Remove the screw cover at the top of the garnish molding.
3. Remove the screw from the garnish molding.

4. Pull inward on the garnish molding (2) to release the top of the molding from the headliner (3).
5. Pull inward at the center of the garnish molding to release the center part of the garnish molding.
6. Remove the speaker. Refer to **Speaker Replacement - Front Upper** in Entertainment.

Installation Procedure

1. Install the speaker. Refer to **Speaker Replacement - Front Upper** in Entertainment.

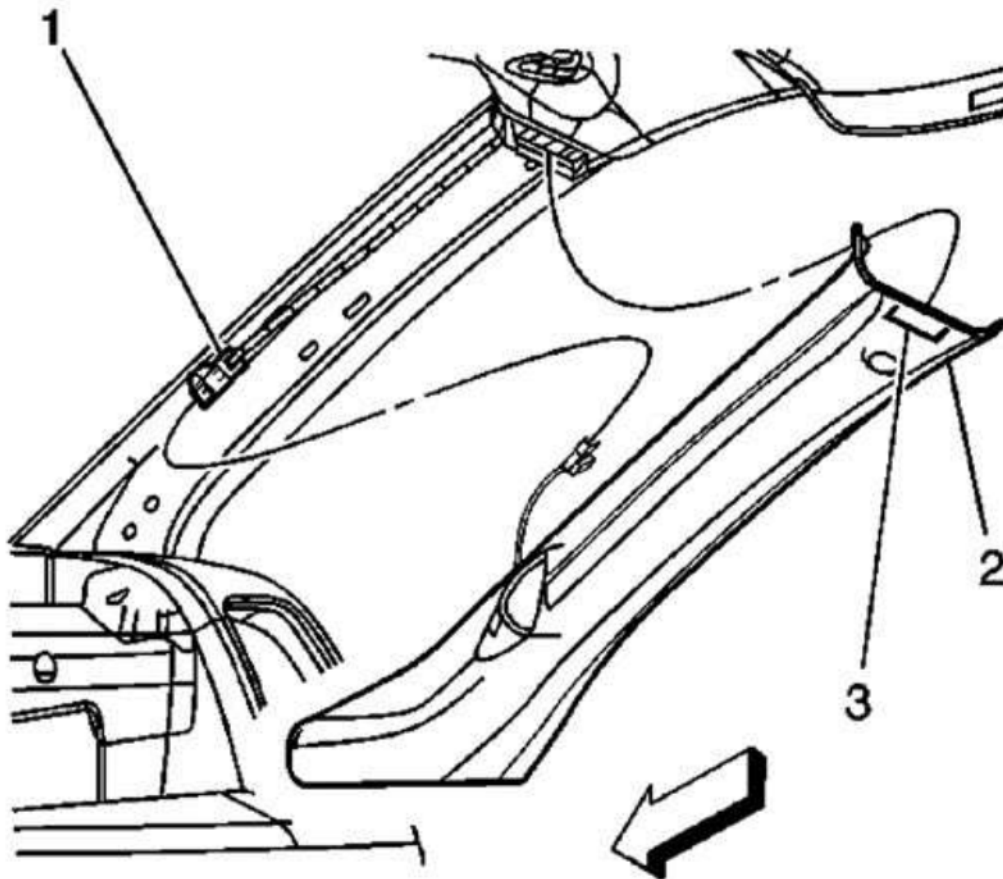


Fig. 49: Locating Front Upper Speaker Components
Courtesy of GENERAL MOTORS CORP.

2. Position the base of the garnish molding to the outside of the instrument panel pad.
3. Position the molding to the windshield pillar, aligning the tabs to the retention clips on the windshield pillar.

4. Push inward on the garnish molding (2) to secure the windshield pillar and headliner.

NOTE: Refer to **Fastener Notice in Cautions and Notices.**

5. Install the fastener.

Tighten: Tighten the fastener to 2 N.m (18 lb in).

6. Install the screw cover.

GARNISH MOLDING REPLACEMENT - CENTER PILLAR

Tools Required

J 38778 Door Trim Pad Clip Remover

Removal Procedure

CAUTION: Refer to **SIR Caution** in Cautions and Notices.

CAUTION: In order to prevent SIR deployment, personal injury, or unnecessary SIR system repairs, do not strike the door or the door pillar in the area of the side impact sensor (SIS). Turn OFF the ignition and remove the key when performing service in the area of the SIS.

1. Disable the SIR system. Refer to **SIR Disabling and Enabling Zone 2** and **SIR Disabling and Enabling Zone 6** in SIR.
2. Remove the front carpet retainers. Refer to **Carpet Retainer Replacement - Front** .
3. Remove the rear carpet retainers. Refer to **Carpet Retainer Replacement - Rear** .

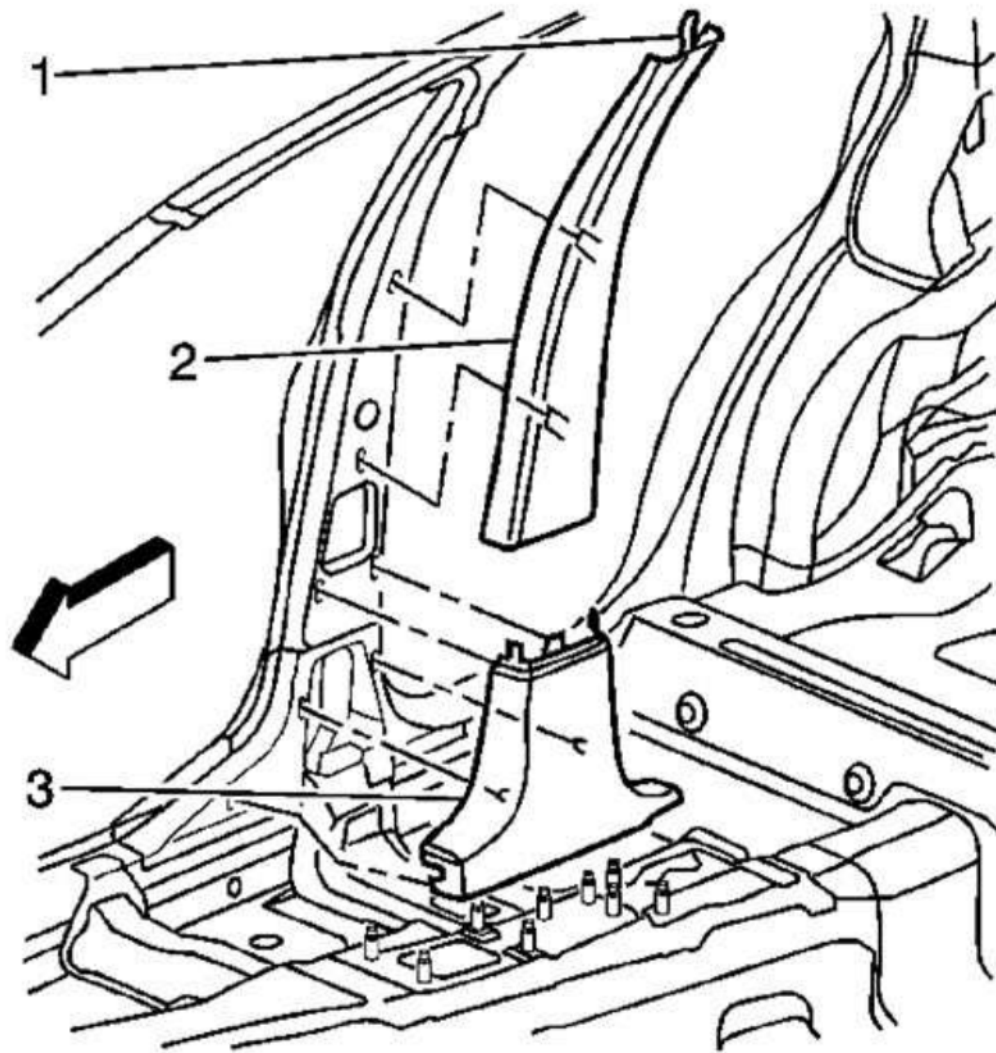


Fig. 50: View Of Center Pillar Garnish Moldings
Courtesy of GENERAL MOTORS CORP.

4. Carefully pull outward at the bottom of the lower center pillar trim panel (3) to use the J 38778 in order to release the three lower retainer clips.
5. Pull outward on the upper portion of the pillar trim (2) to release the sheet metal retainer clips from the pillar.
6. Slide the pillar trim inward and downward to release the top locking tab (1) from between the sheet metal and the headliner.
7. Remove the center pillar trim.

1. Insert the upper center pillar trim panel (2) into the lower center trim panel (3).

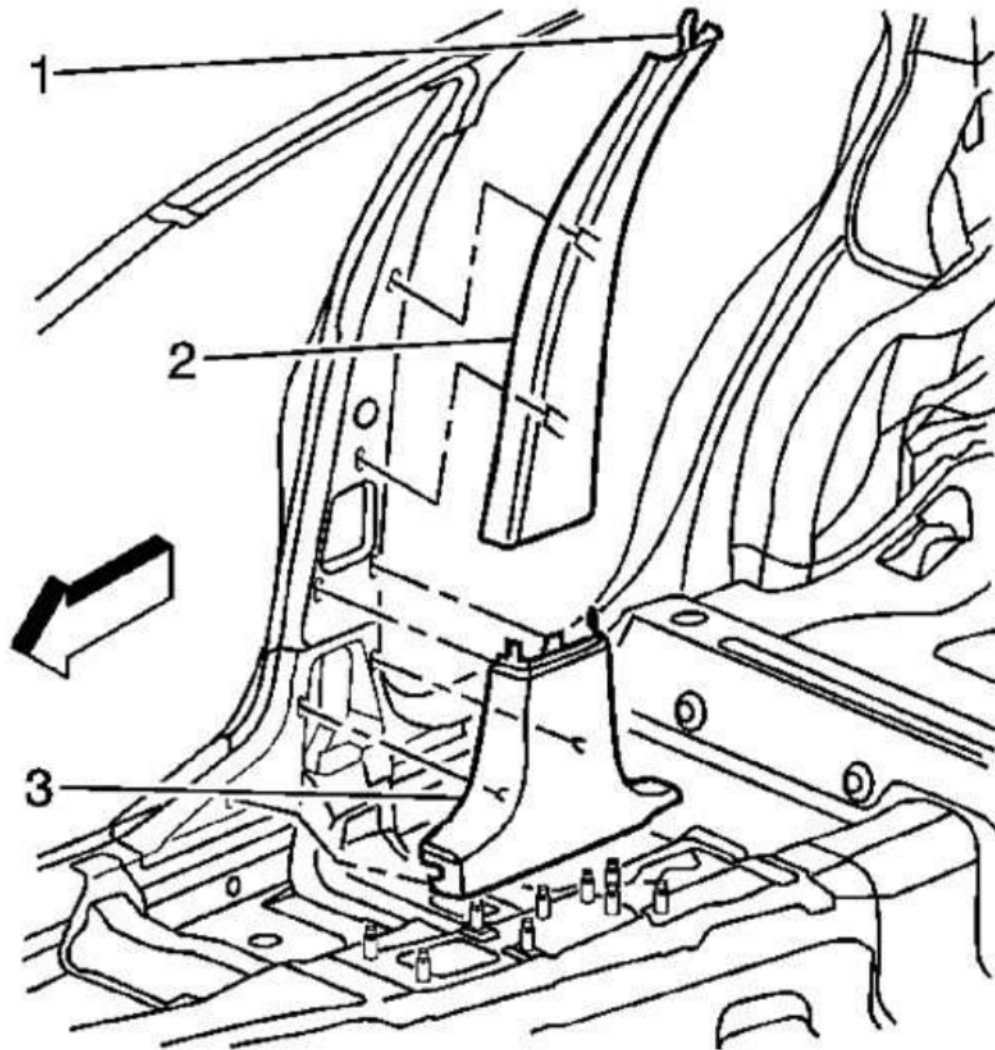


Fig. 51: View Of Center Pillar Garnish Moldings
Courtesy of GENERAL MOTORS CORP.

2. Position the top of the locking tab (1) to the slot in the sheet metal under the headliner.
3. Push upward in order to secure.
4. Position the upper trim locating tabs to the metal clips in the pillar.
5. Position the plastic retainers to the holes in the pillar.
6. Push inward beginning at the top of the pillar and working downward to the floorpan in order to secure the center pillar trim (3).

7. Install the rear carpet retainers. Refer to Carpet Retainer Replacement - Rear.
8. Install the front carpet retainers. Refer to Carpet Retainer Replacement - Front.
9. Enable the SIR system. Refer to SIR Disabling and Enabling Zone 2 and SIR Disabling and Enabling Zone 6 in SIR.

GARNISH MOLDING REPLACEMENT - BODY SIDE REAR UPPER

Removal Procedure

1. Remove the seat belt retractor guide bolt (1).

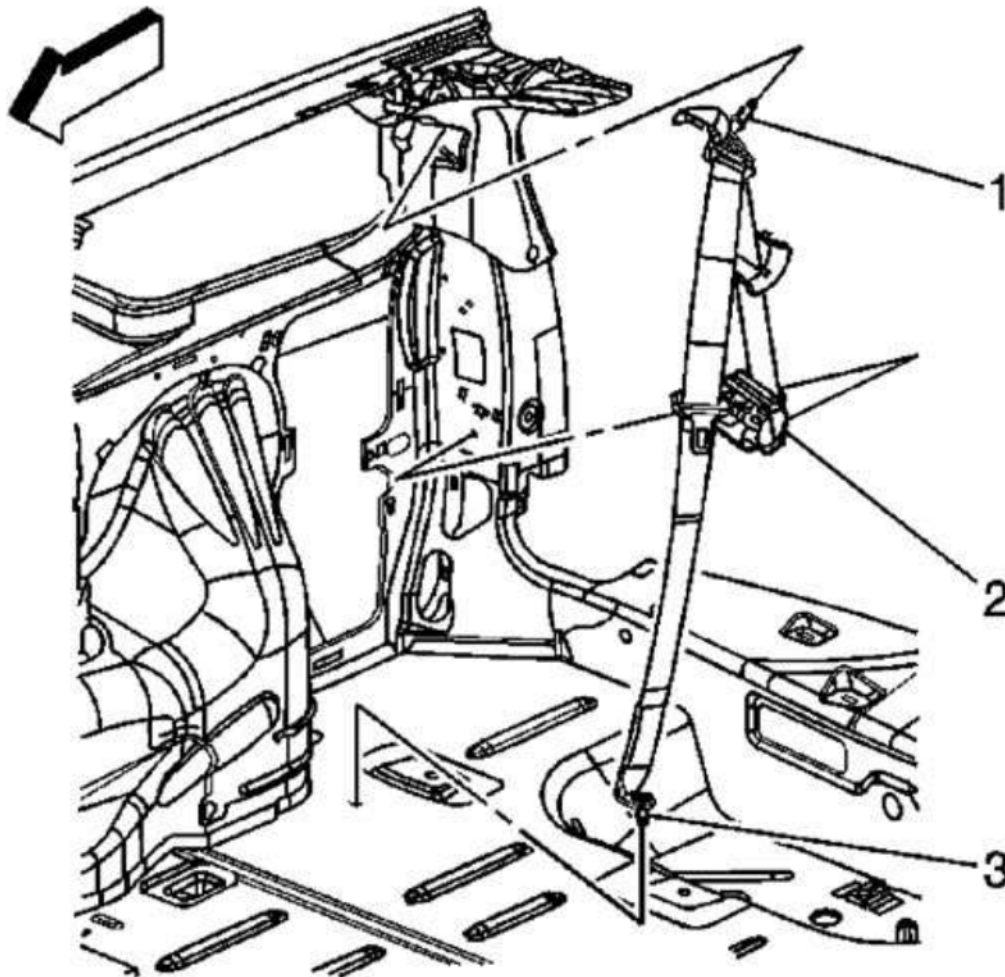


Fig. 52: View Of Seat Belt
Courtesy of GENERAL MOTORS CORP.

2. Remove the seat belt retractor anchor bolt (3).

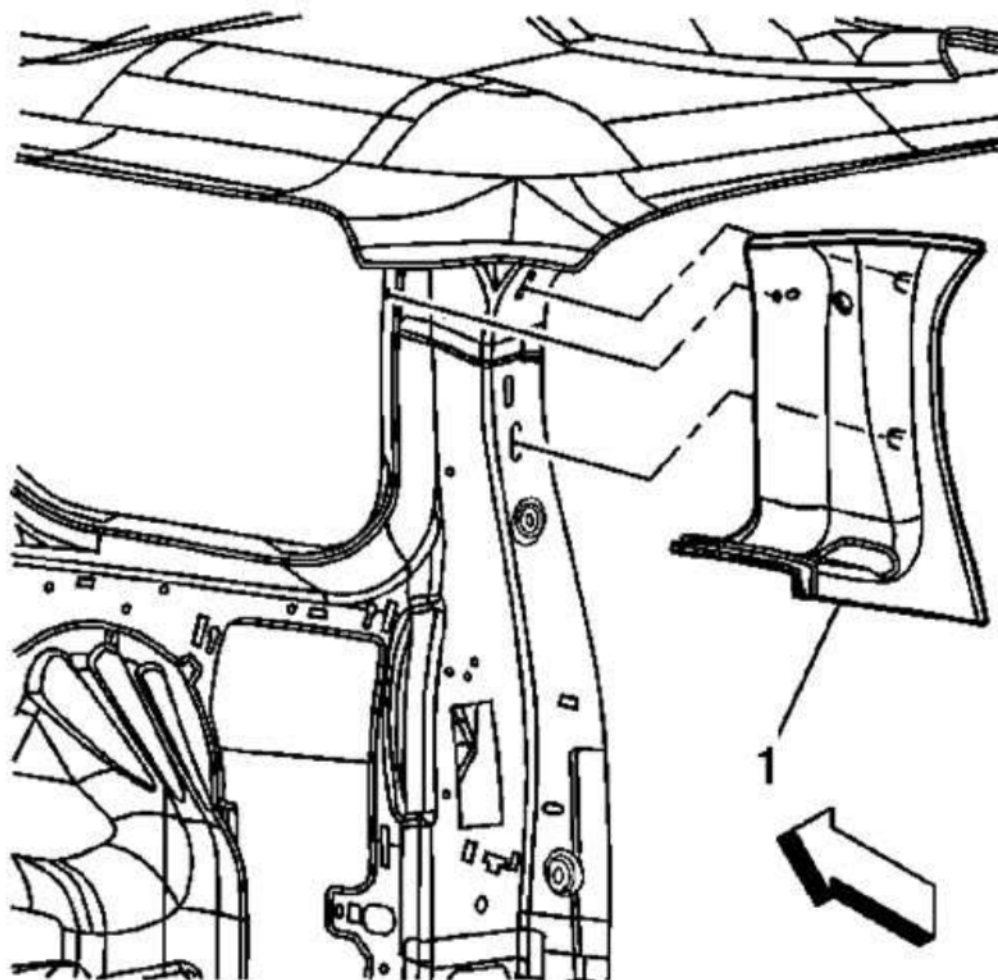


Fig. 53: View Of Body Side Upper Garnish Moldings
Courtesy of GENERAL MOTORS CORP.

3. Remove the garnish molding (1).
4. Slide the seat belt through the garnish molding.

Installation Procedure

1. Insert the seat belt through the garnish molding.
2. Insert the seat belt guide into the garnish molding.

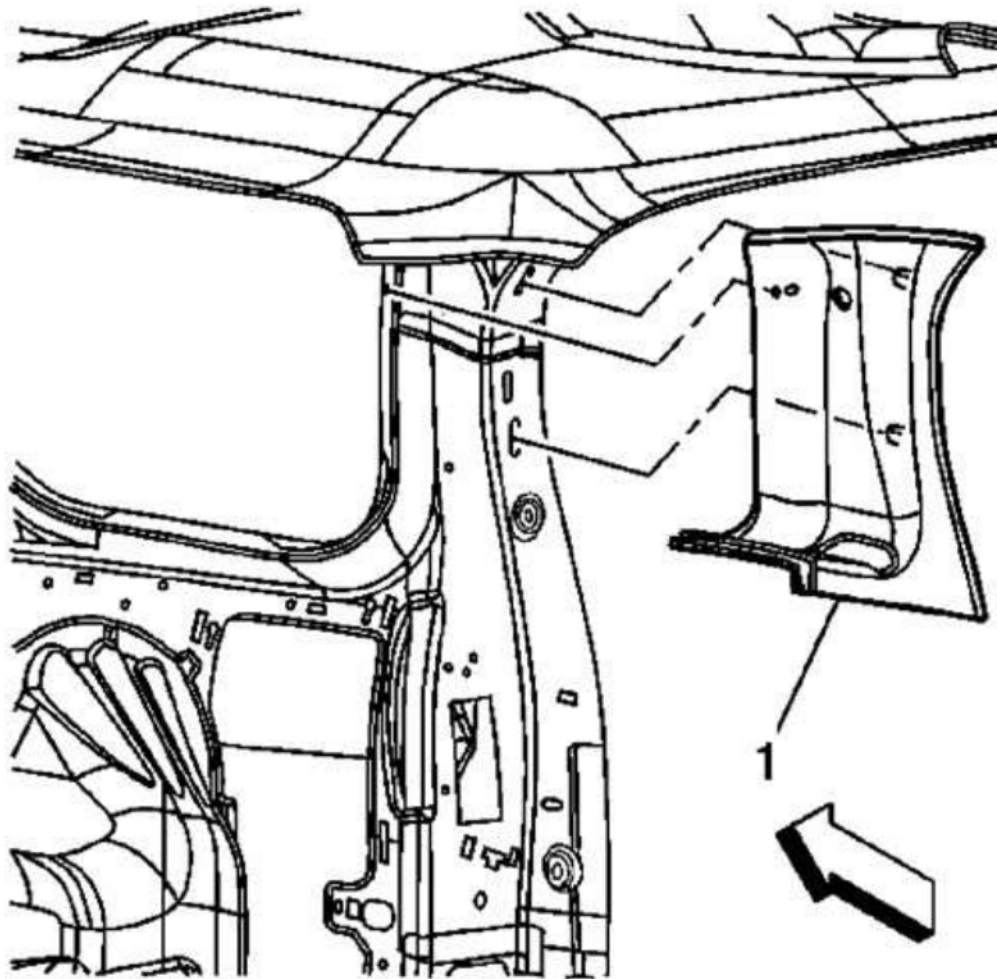


Fig. 54: View Of Body Side Upper Garnish Moldings
Courtesy of GENERAL MOTORS CORP.

3. Align the retainers on the garnish molding (1) with the holes in the body pillar.
4. Push the panel inward in order to secure the retainers.

NOTE: Refer to Fastener Notice in Cautions and Notices.

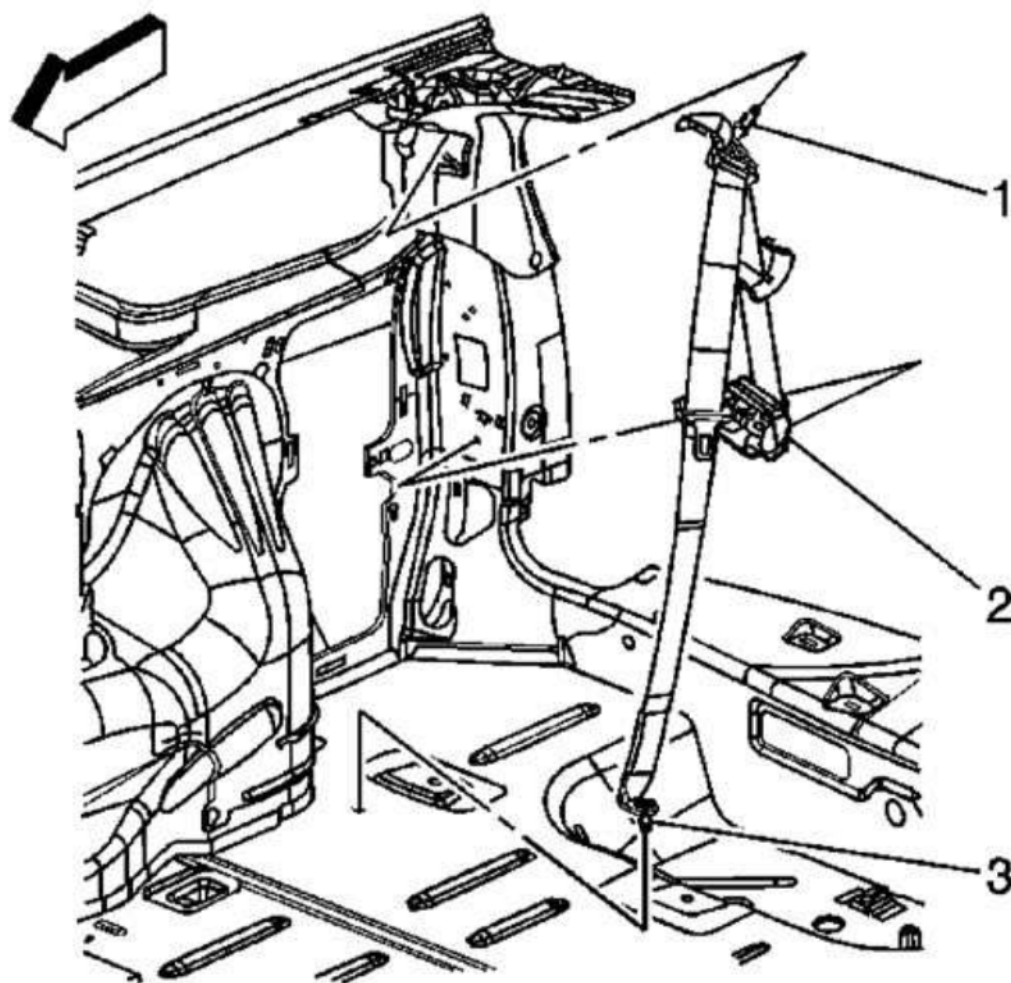


Fig. 55: View Of Seat Belt

Courtesy of GENERAL MOTORS CORP.

5. Install the seat belt retractor anchor bolt (3). Ensure that the belt is not twisted.

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

6. Install the seat belt retractor guide bolt (1). Ensure that the belt is not twisted.

Tighten: Tighten the bolt to 70 N.m (52 lb ft)

TRIM PANEL REPLACEMENT - BODY SIDE REAR

Removal Procedure

1. Lower the rear seats to assist in removal of the trim panel.

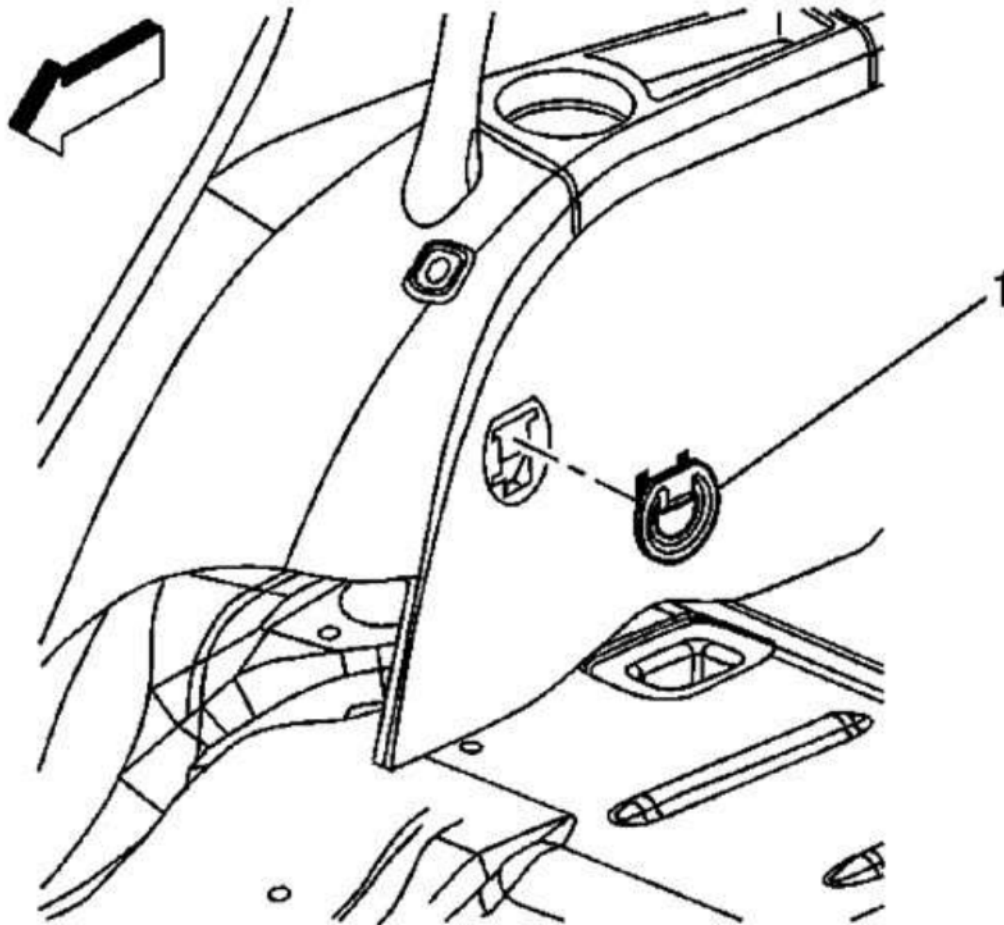


Fig. 56: View Of Rear Quarter Trim Tie Down Bezel
Courtesy of GENERAL MOTORS CORP.

2. Remove the rear quarter trim tie down bezel (1).
3. Remove the side door garnish molding. Refer to **Garnish Molding Replacement - Side Door Opening Frame**.
4. Remove the body side rear upper garnish molding. Refer to **Garnish Molding Replacement - Body Side Rear Upper**.
5. Remove the rear compartment sill plate. Refer to **Compartment Sill Plate Replacement - Rear** in Body Rear End.

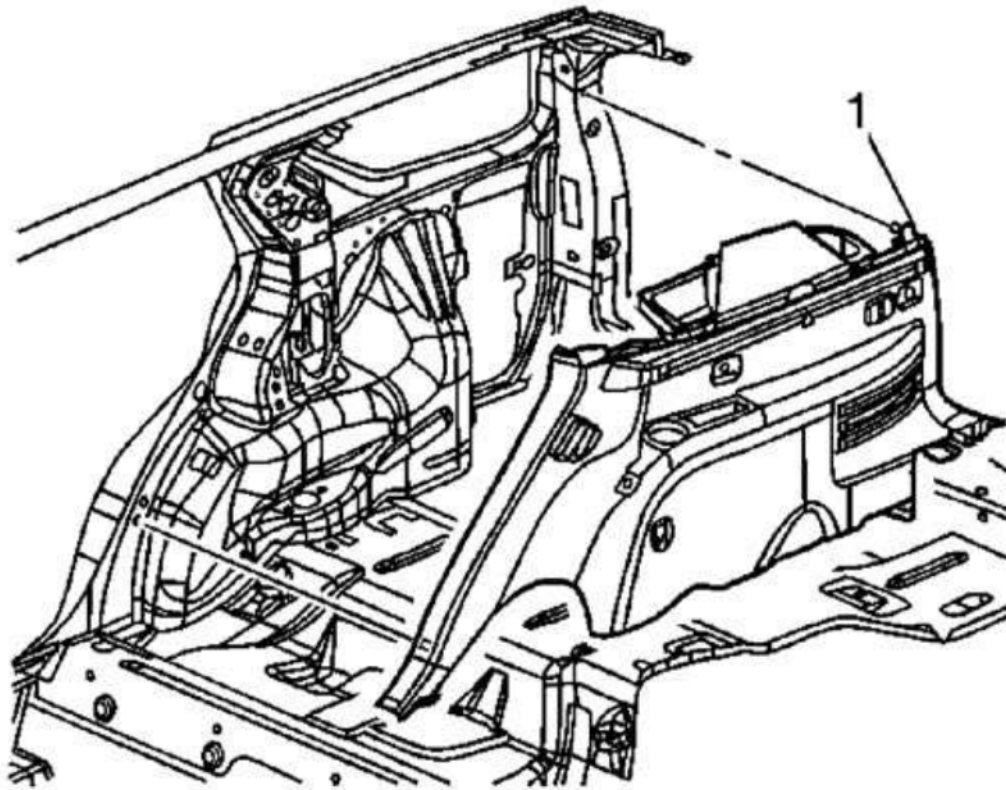


Fig. 57: View Of Body Side Rear Trim Panel
Courtesy of GENERAL MOTORS CORP.

6. Pull the trim panel (1) away from the body.
7. Disconnect the electrical connectors from the trim panel.
8. Remove the trim panel from the vehicle.

Installation Procedure

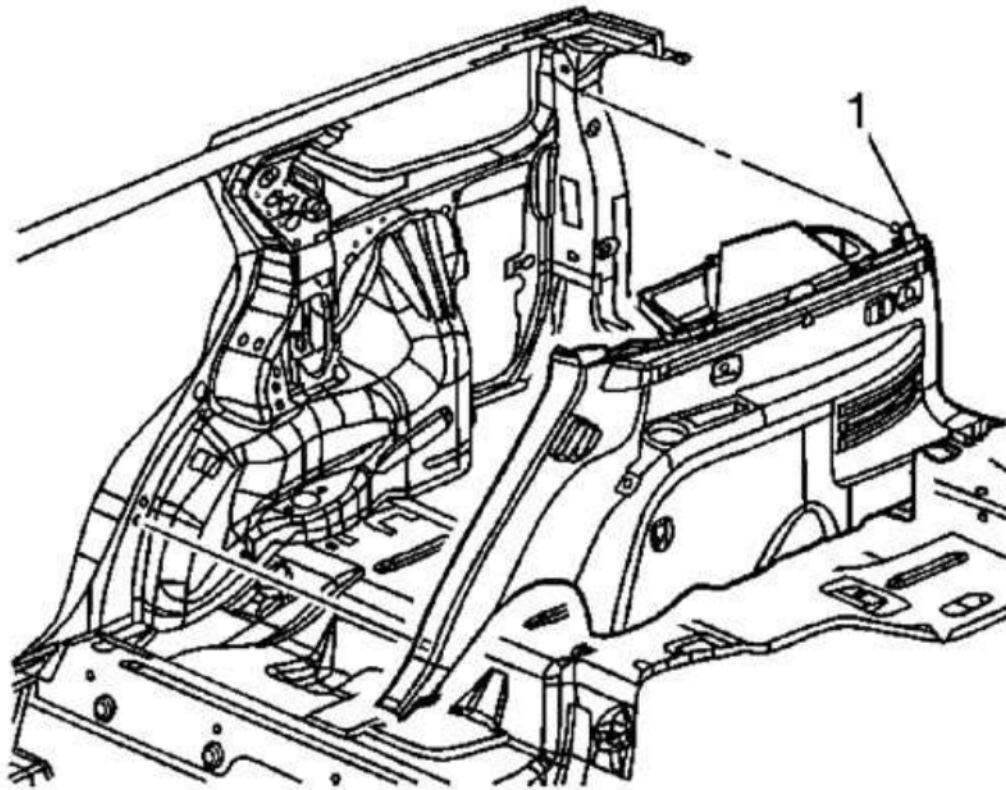


Fig. 58: View Of Body Side Rear Trim Panel
Courtesy of GENERAL MOTORS CORP.

1. Position the trim panel (1) to the vehicle.
2. Position the seat belt over the top of the trim panel, ensuring that the buckle is not behind the trim panel.
3. Connect the electrical connectors.
4. Index the locating tabs on the trim panel to the holes in the body.
5. Seat the clips that retain the trim panel to the body.
6. Install the rear compartment sill plate. Refer to **Compartment Sill Plate Replacement - Rear** in Body Rear End.
7. Install the body side rear upper garnish molding. Refer to **Garnish Molding Replacement - Body Side Rear Upper**.
8. Install the side door garnish molding. Refer to **Garnish Molding Replacement - Side Door Opening Frame**.

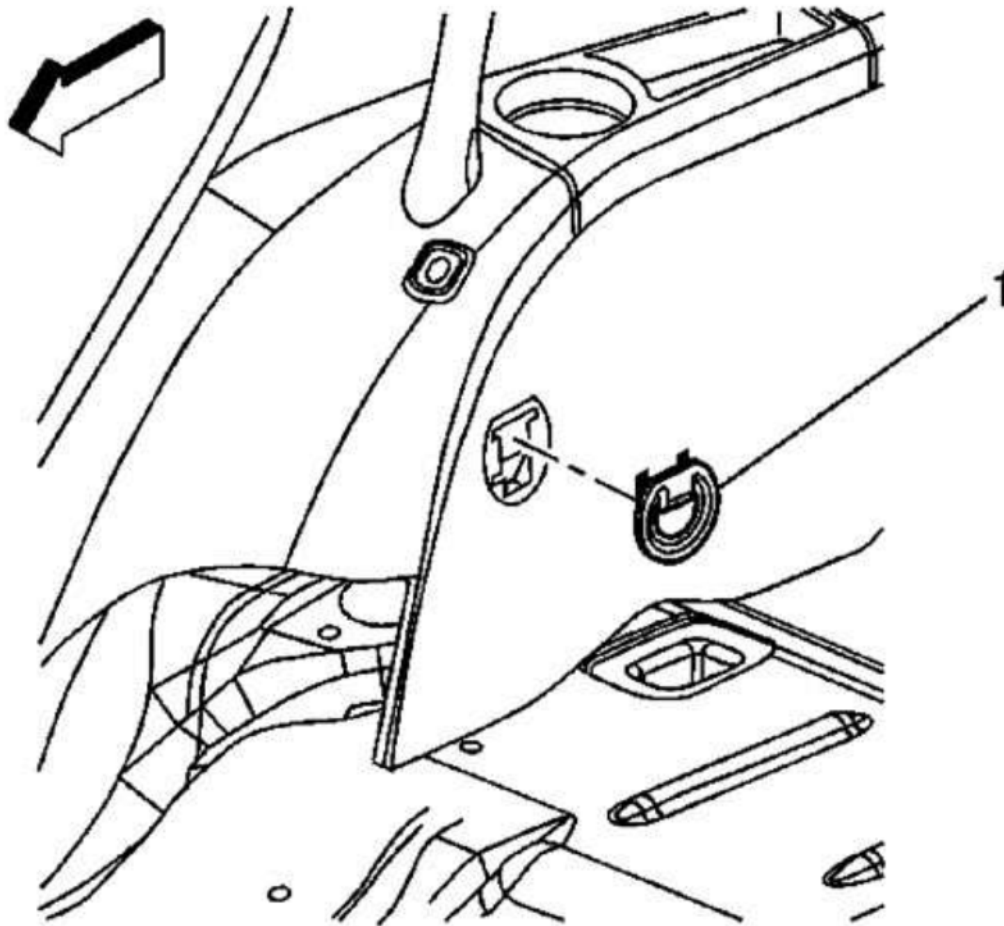


Fig. 59: View Of Rear Quarter Trim Tie Down Bezel
Courtesy of GENERAL MOTORS CORP.

9. Install the rear quarter trim tie down bezel (1).
10. Put the rear seats in the upright position.

STORAGE COMPARTMENT REPLACEMENT - REAR

Removal Procedure

1. Open the storage compartment.

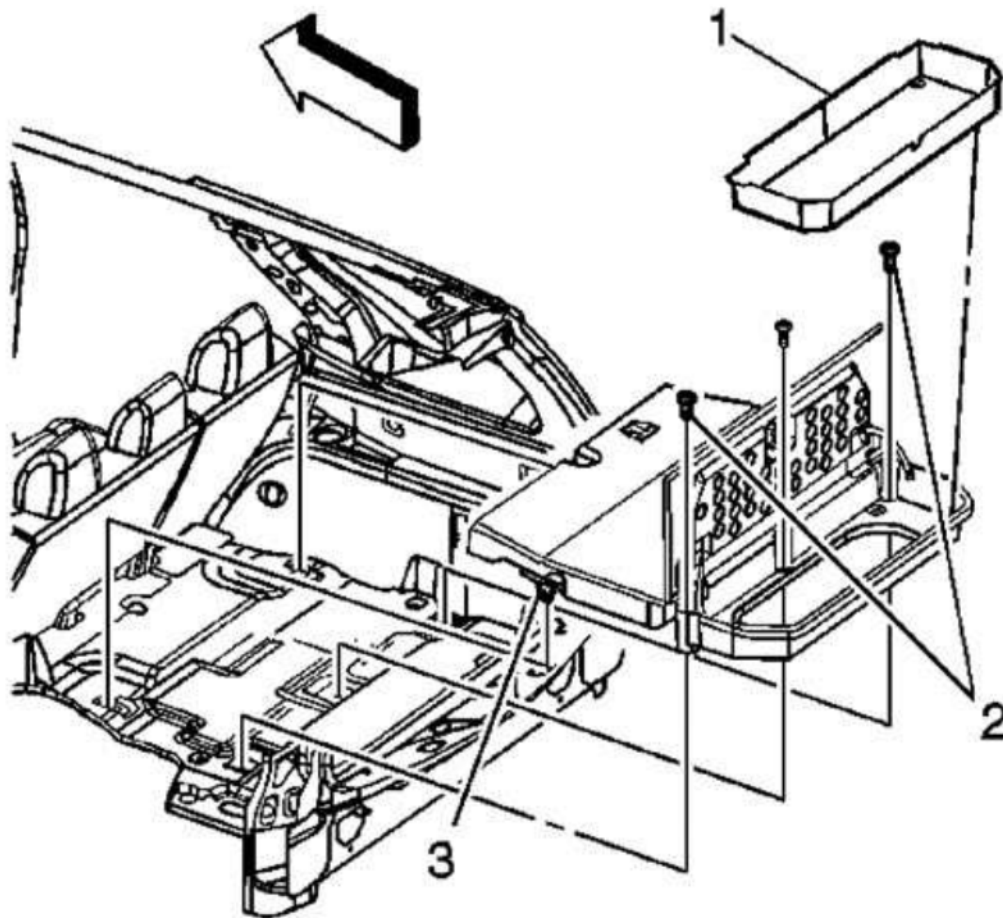


Fig. 60: View Of Rear Removable Storage Bin
Courtesy of GENERAL MOTORS CORP.

2. Remove the removable storage bin (1) from the cargo assembly.
3. Remove the storage compartment bolts (2).
4. Remove the storage compartment assembly.

Installation Procedure

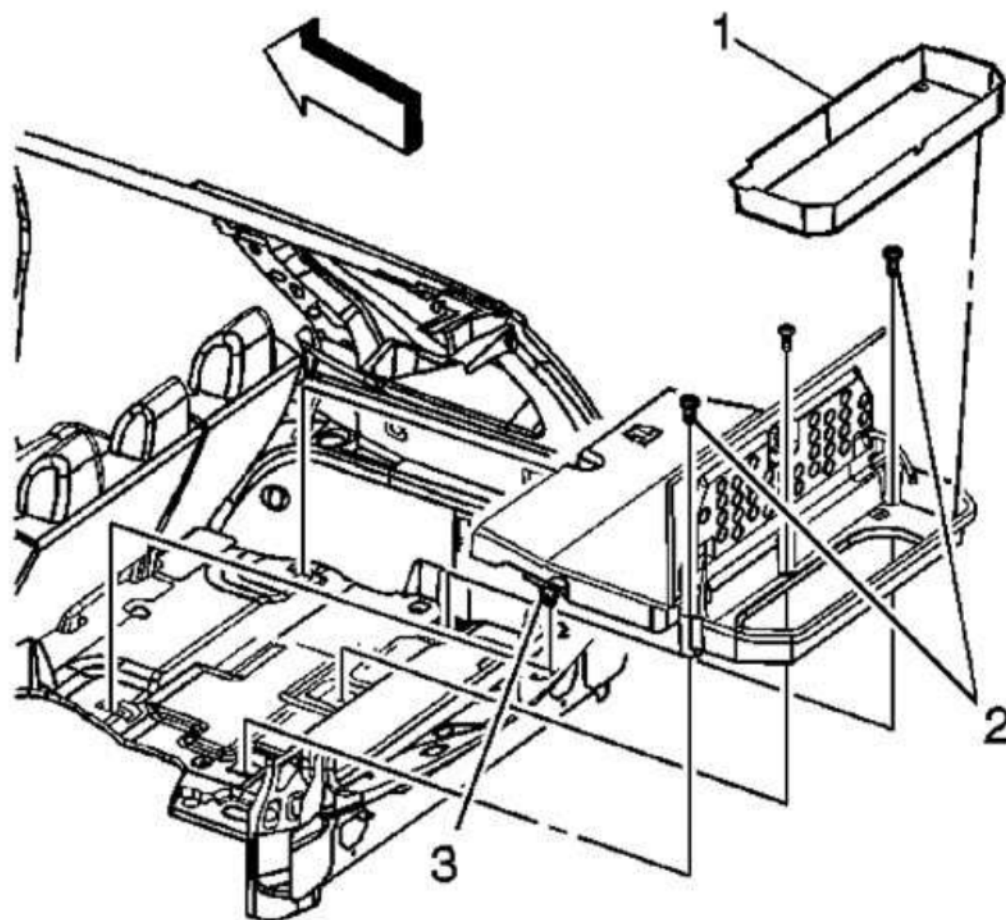


Fig. 61: View Of Rear Removable Storage Bin
Courtesy of GENERAL MOTORS CORP.

1. Insert the storage compartment front lower hooks (3) into the floor.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the retaining bolts (2).

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

3. Install the removable storage bin (1).

DESCRIPTION AND OPERATION

HEADLINER DESCRIPTION

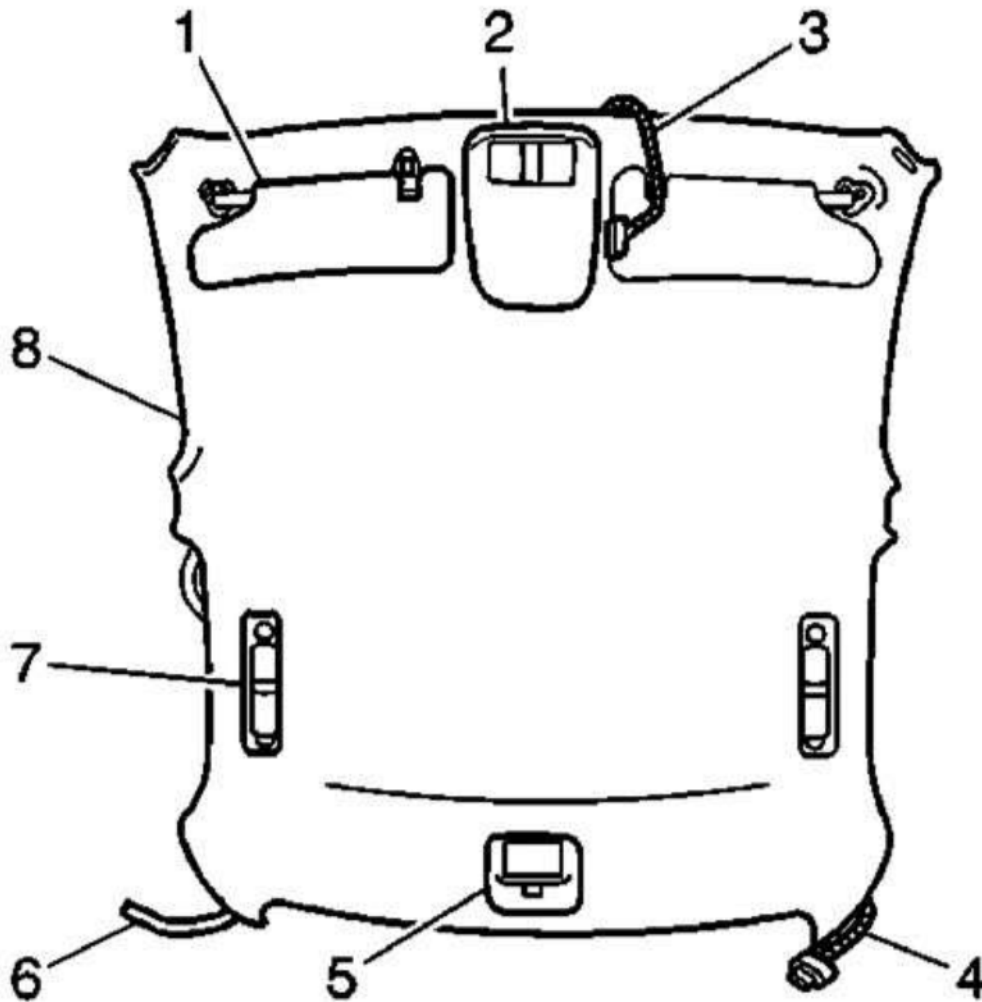


Fig. 62: Modular Headliner

Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The headliner is only serviced as a complete assembly

The modular headliner (8) is a one-piece composite substrate that is covered with a foam cloth facing.

The electrical wiring harness (3, 4, 6) for the roof lighting (2, 5), the electrochromatic (UE1) inside rear view mirror (3), and the antenna module coaxial cable (6), attaches to the headliner by means of an adhesive glue bond.

The headliner is held up to the roof panel cardboard insulator by the use of six adhesive

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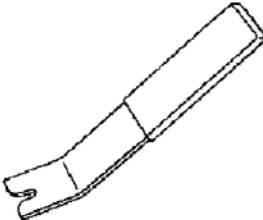
patches along with a single push-in plastic retainer located above the overhead console (2) The rear assist handles (7) fasteners, the front sunshades (1) fasteners and the rear courtesy lamp (5) fasteners also secure the headliner in place.

If the vehicle is equipped with a sunroof, there are four patches of Dual Lock(tm) material at the rear sides of the sunroof opening which add extra support for the headliner.

SPECIAL TOOLS AND EQUIPMENT

SPECIAL TOOLS

Special Tools

Illustration	Tool Number/Description
	J 38778 Door Trim Pad Clip Remover

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