

ACCESSORIES & EQUIPMENT

Floor Coverings and Headlinings - CTS Sedan

SPECIFICATIONS

ADHESIVES, FLUIDS, LUBRICANTS, AND SEALERS

Adhesives, Fluids, Lubricants, and Sealers

Application	Type of Material	GM Part Number
GM Vehicle Care Odor Eliminator	Fluids	Refer to Electronic Parts Catalog.

REPAIR INSTRUCTIONS

ELIMINATING UNWANTED ODORS IN VEHICLES

GM Vehicle Care Odor Eliminator, Refer to **Adhesives, Fluids, Lubricants, and Sealers** , 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.

NOTE: **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.
- Complete eight page treatment sheets are enclosed within each case of GM Vehicle Care Odor Eliminator. These treatment instructions range from simple vehicle odor elimination to full step by step

procedures for odor removal from water leaks.

- 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.

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.

FRONT FLOOR PANEL CARPET REPLACEMENT - LEFT SIDE

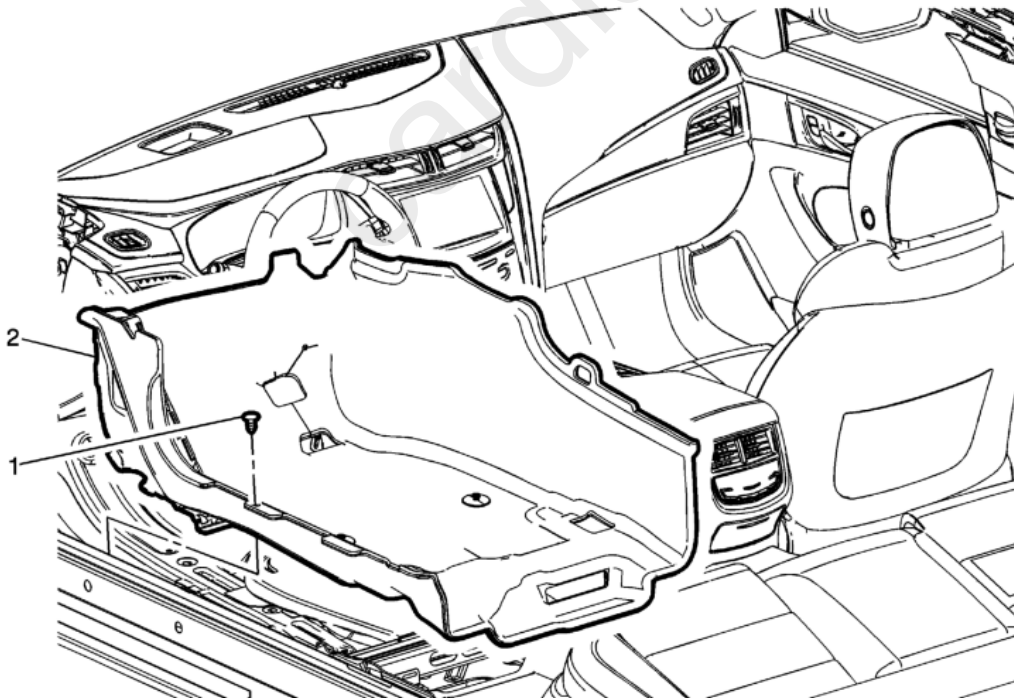


Fig. 1: Front Floor Panel Carpet - Left Side
 Courtesy of GENERAL MOTORS COMPANY

Front Floor Panel Carpet Replacement - Left Side

Callout	Component Name
Preliminary Procedures 1. Remove the accelerator pedal with position sensor. Refer to <u>Accelerator Pedal with Position Sensor Assembly Replacement</u> . 2. Remove the driver footrest. Refer to <u>Driver Footrest Replacement</u>. 3. Remove the driver seat. Refer to <u>Driver or Passenger Seat Removal and Installation</u> . 4. Remove the driver side front side door sill garnish molding. Refer to <u>Front Side Door Sill Garnish Molding Replacement</u> . 5. Remove the center pillar lower trim panel. Refer to <u>Center Pillar Lower Trim Panel Replacement</u> 6. Remove the front floor console side trim panel. Refer to <u>Front Floor Console Side Trim Panel Replacement - Left Side</u> . 7. Remove the floor rear air outlet duct - left side, insert portion only. Refer to <u>Floor Rear Air Outlet Duct Replacement - Left Side</u> .	
1	Floor Carpet Retainer Procedure Use a plastic flat-bladed tool to aid in the removal of the push-in retainer.
2	Front Floor Panel Carpet Assembly - Left Side

FRONT FLOOR PANEL CARPET REPLACEMENT - RIGHT SIDE

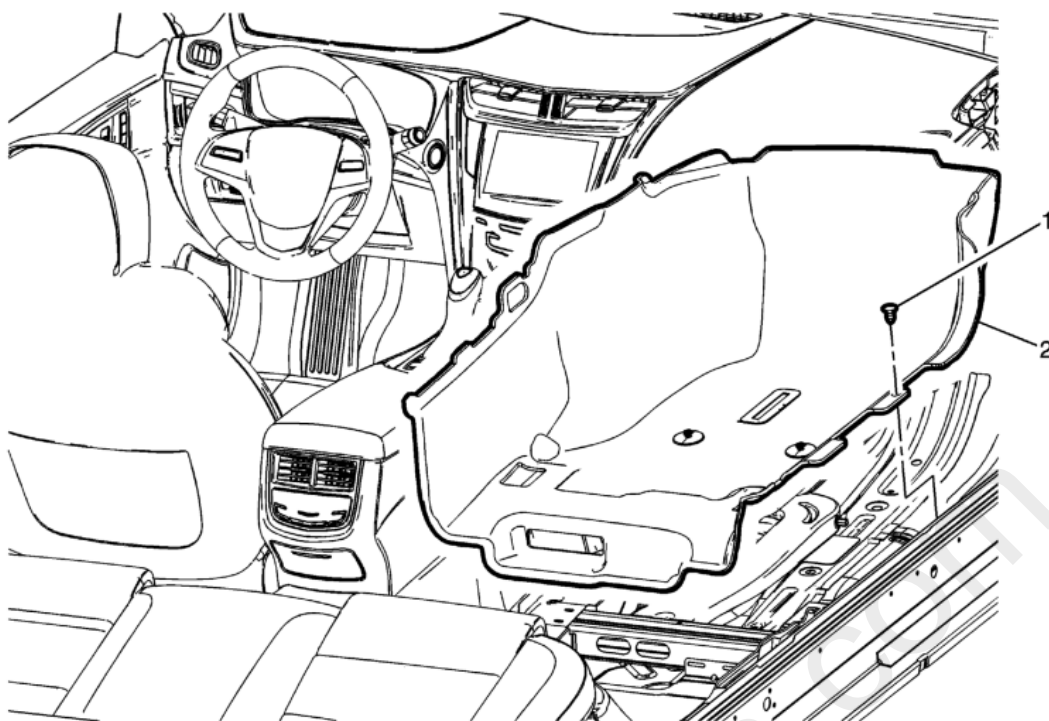


Fig. 2: Front Floor Panel Carpet - Right Side
 Courtesy of GENERAL MOTORS COMPANY

Front Floor Panel Carpet Replacement - Right Side

Callout	Component Name
Preliminary Procedures 1. Remove the passenger seat. Refer to <u>Driver or Passenger Seat Removal and Installation</u> . 2. Remove the passenger side front side door sill garnish molding. Refer to <u>Front Side Door Sill Garnish Molding Replacement</u> . 3. Remove the front floor console side trim panel - right side. Refer to <u>Front Floor Console Side Trim Panel Replacement - Right Side</u> . 4. Remove the center lower trim panel. Refer to <u>Center Pillar Lower Trim Panel Replacement</u> . 5. Remove the floor rear air outlet duct - right side, insert portion only. Refer to <u>Floor Rear Air Outlet Duct Replacement - Right Side</u> .	
1	Floor Carpet Retainer Procedure Use a plastic flat-bladed tool to aid in the removal of the push-in retainer.
2	Front Floor Panel Carpet Assembly - Right Side

REAR FLOOR PANEL CARPET REPLACEMENT

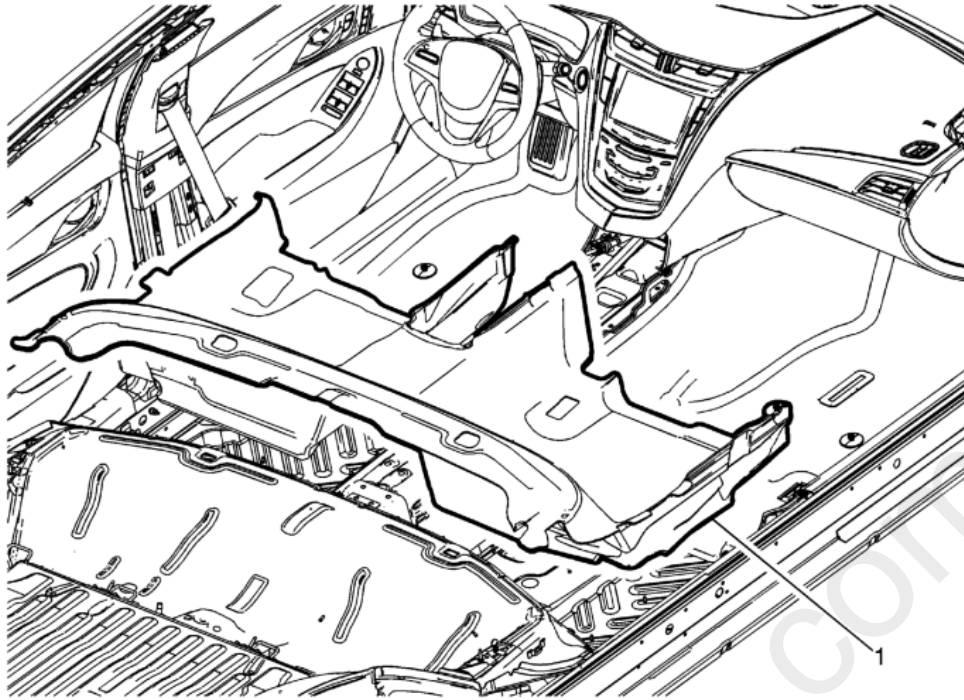


Fig. 3: Rear Floor Panel Carpet
 Courtesy of GENERAL MOTORS COMPANY

Rear Floor Panel Carpet Replacement

Callout	Component Name
Preliminary Procedures	
1. Remove both the driver and passenger seat. Refer to <u>Driver or Passenger Seat Removal and Installation</u> . 2. Remove rear seat cushion. Refer to <u>Rear Seat Cushion Removal and Installation</u> . 3. Remove the front floor console. Refer to <u>Front Floor Console Replacement</u> . 4. Remove both center pillar lower trim panels. Refer to <u>Center Pillar Lower Trim Panel Replacement</u> .	
1	Rear Floor Panel Carpet Procedure Reposition front floor panel carpet as needed.

REAR COMPARTMENT FLOOR PANEL CARPET REPLACEMENT

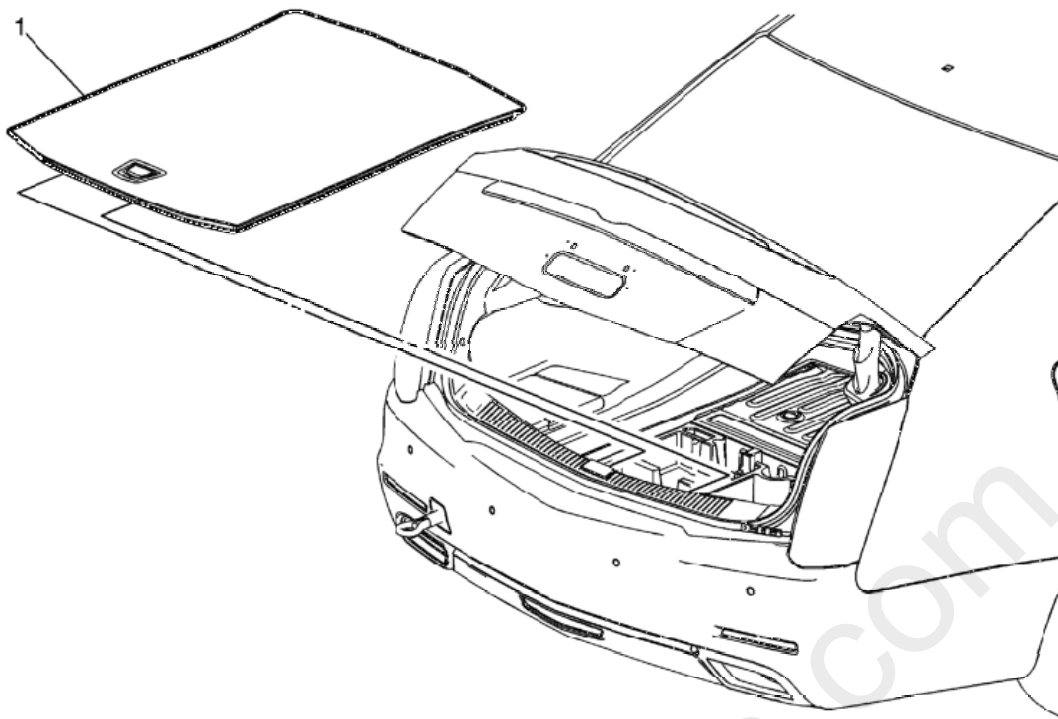


Fig. 4: Rear Compartment Floor Panel Carpet
Courtesy of GENERAL MOTORS COMPANY

Rear Compartment Floor Panel Carpet Replacement

Callout	Component Name
1	Rear Compartment Floor Panel Carpet Assembly

REAR COMPARTMENT FLOOR PANEL TRIM SUPPORT REPLACEMENT

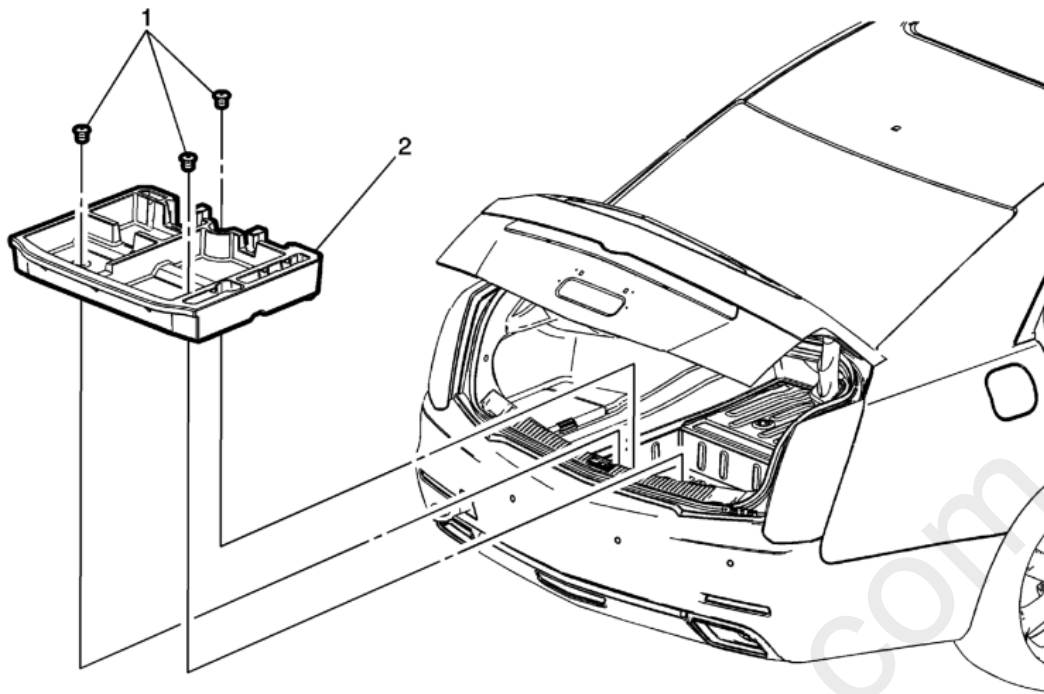


Fig. 5: Rear Compartment Floor Panel Trim Support
 Courtesy of GENERAL MOTORS COMPANY

Rear Compartment Floor Panel Trim Support Replacement

Callout	Component Name
Preliminary Procedures	
1.	Remove the rear compartment floor panel carpet. Refer to <u>Rear Compartment Floor Panel Carpet Replacement</u> .
2.	Remove the rear end trim finish panel. Refer to <u>Rear End Trim Finish Panel Replacement</u> .
1	Rear Compartment Floor Stowage Compartment Divider Retainer (Qty: 3)
2	Rear Compartment Floor Panel Trim Support Assembly

DRIVER FOOTREST REPLACEMENT

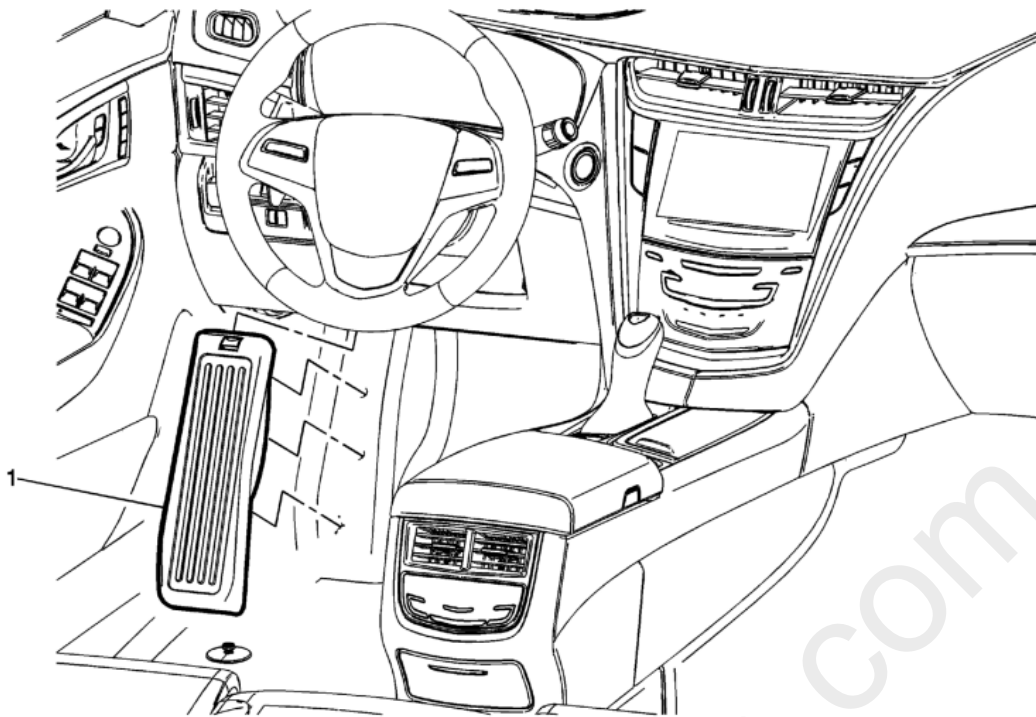


Fig. 6: Driver Footrest
Courtesy of GENERAL MOTORS COMPANY

Driver Footrest Replacement

Callout	Component Name
1	Driver Footrest 1. Remove the CPA lock from the driver footrest retaining tab. 2. Use a flat-bladed plastic trim tool in order to release the driver footrest from the driver footrest bracket. 3. Pull the footrest out at the top first, then release the bottom.

HEADLINING TRIM PANEL REPLACEMENT (WITH SUNROOF)

Removal Procedure

WARNING: 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: If a vehicle is equipped with a head curtain inflator module ensure that the inflator module and tether are undamaged. If tether or curtain airbag are damaged in any way, they must be replaced.

CAUTION: Use care when working around the head curtain inflator module. Sharp tools may puncture the curtain airbag. If the head curtain inflator module is damaged in any way, it must be replaced.

1. Disable the SIR system. Refer to **SIR Disabling and Enabling** .

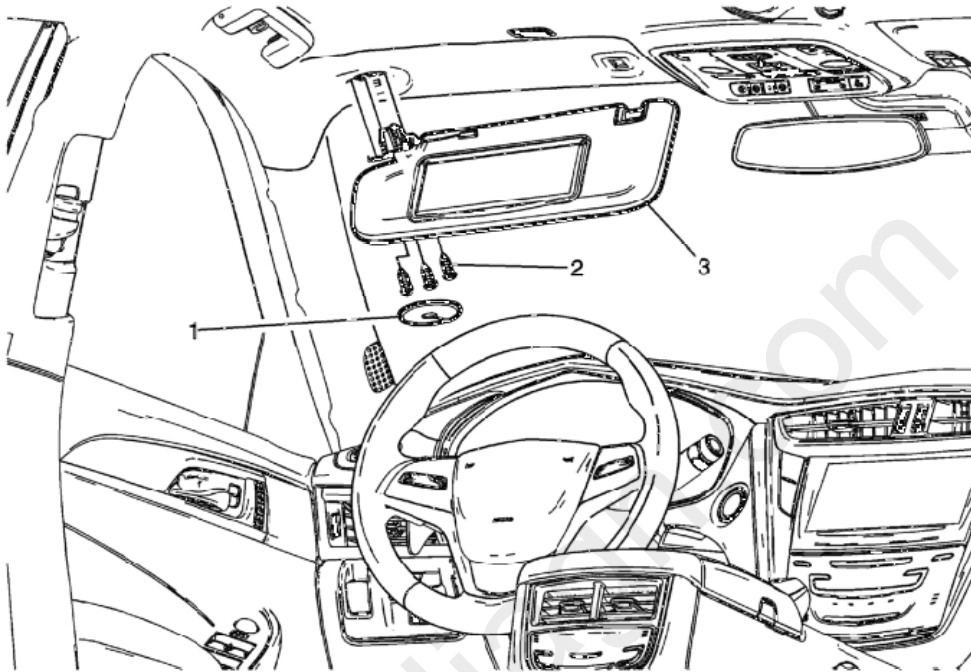


Fig. 7: Sunshade Assembly
Courtesy of GENERAL MOTORS COMPANY

2. Remove the sunshade assembly (3). Refer to **Sunshade Replacement** .

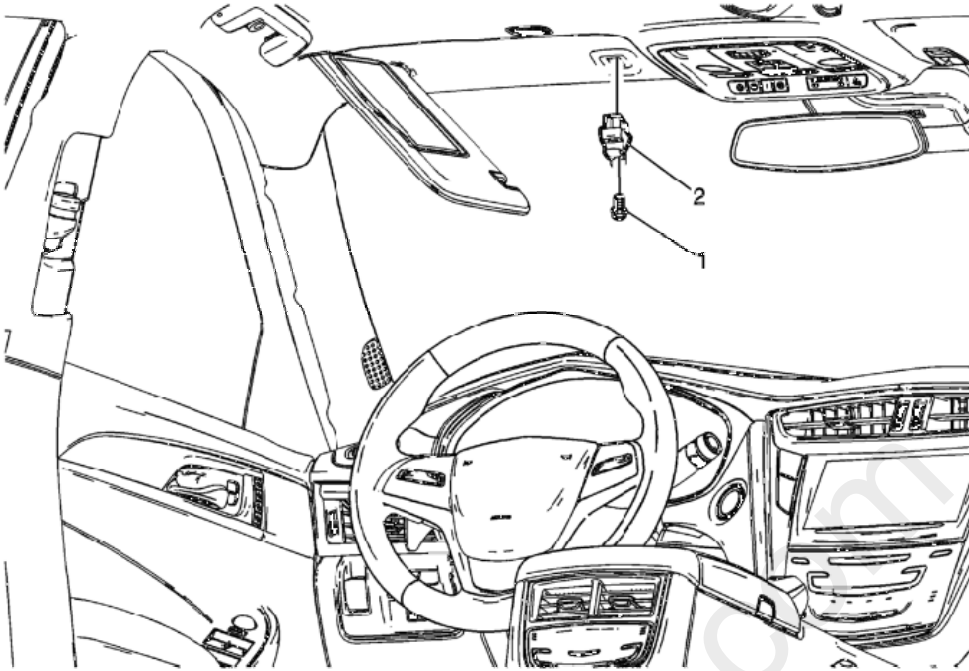


Fig. 8: Sunshade Support
Courtesy of GENERAL MOTORS COMPANY

3. Remove the sunshade support assembly (2). Refer to **Sunshade Support Replacement** .

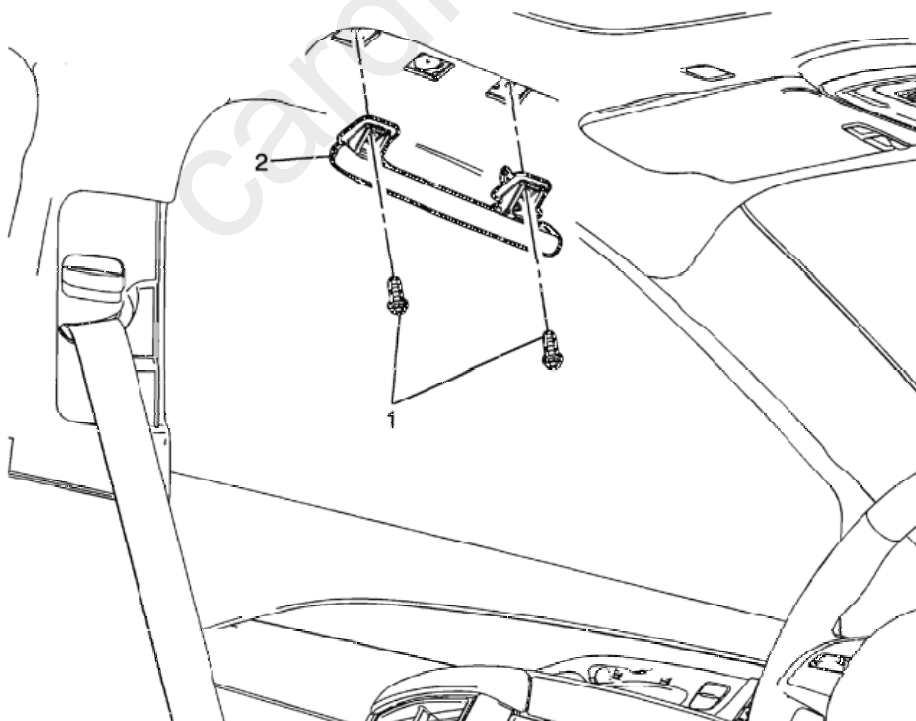


Fig. 9: Roof Rail Front Assist Handle
Courtesy of GENERAL MOTORS COMPANY

4. Remove the roof rail front assist handle assembly (2). Refer to **Roof Rail Front Assist Handle Replacement** .

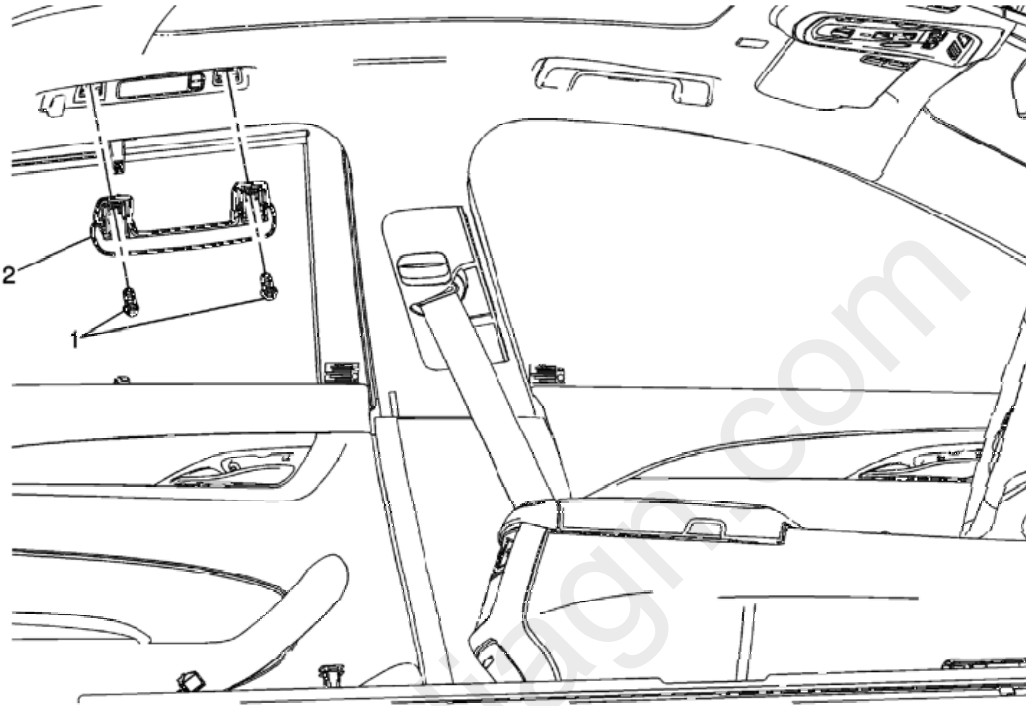


Fig. 10: Roof Rail Rear Assist Handle
Courtesy of GENERAL MOTORS COMPANY

5. Remove the roof rail rear assist handle assembly (2). Refer to **Roof Rail Rear Assist Handle Replacement** .

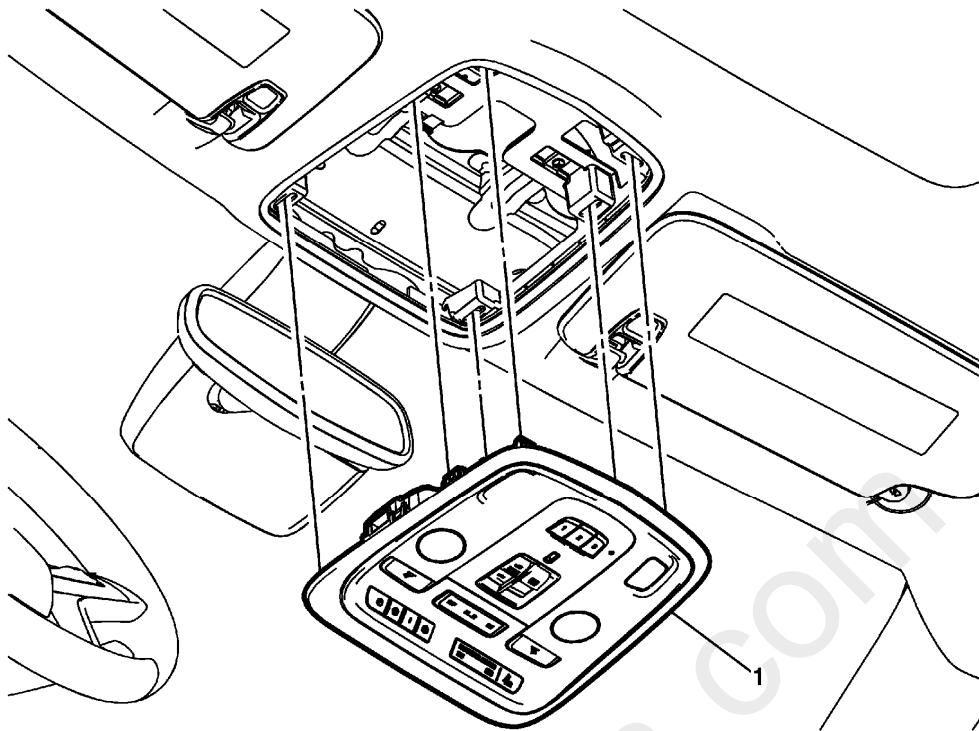


Fig. 11: Roof Console Assembly
 Courtesy of GENERAL MOTORS COMPANY

6. Remove the roof console assembly (1). Refer to **Roof Console Replacement** .

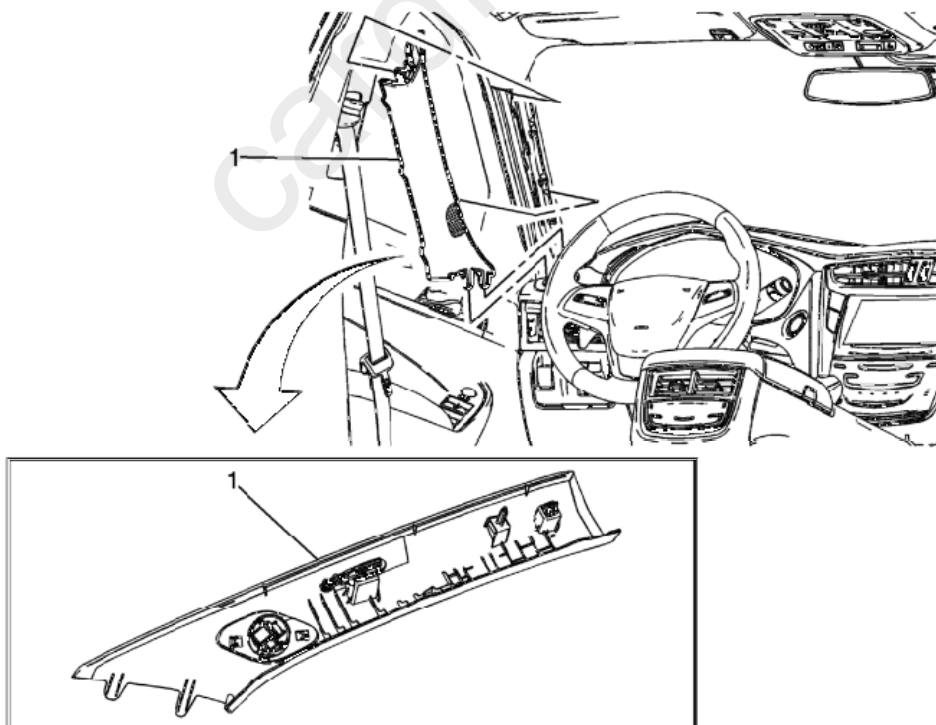


Fig. 12: Windshield Garnish Molding
Courtesy of GENERAL MOTORS COMPANY

7. Remove the windshield garnish molding assembly (1). Refer to **Windshield Garnish Molding Replacement** .

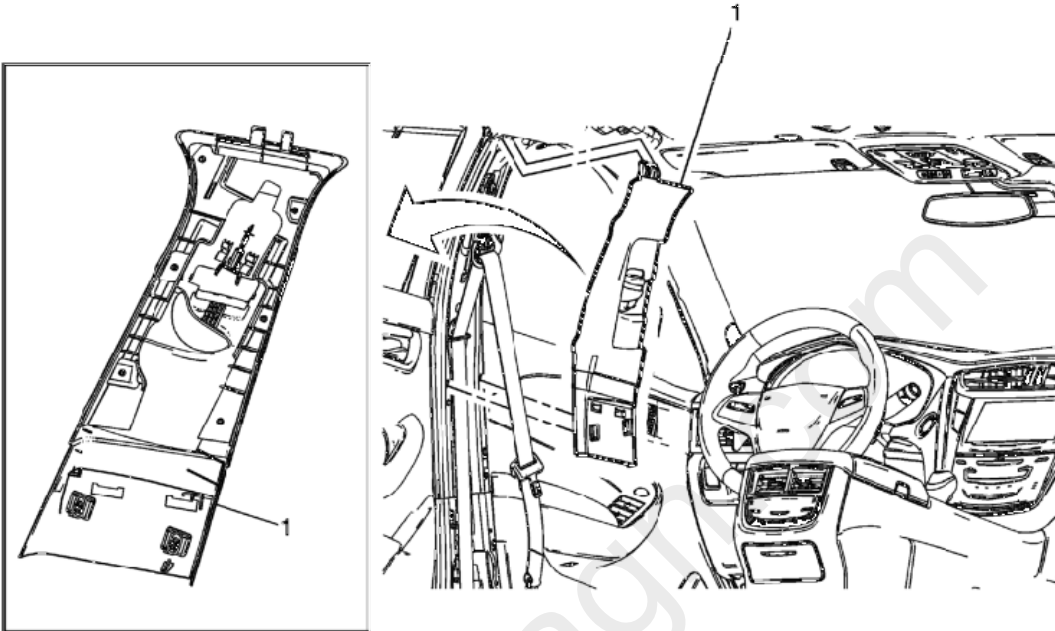


Fig. 13: Center Pillar Upper Trim Panel
Courtesy of GENERAL MOTORS COMPANY

8. Remove the center pillar upper trim panel assembly (1). Refer to **Center Pillar Upper Trim Panel Replacement** .

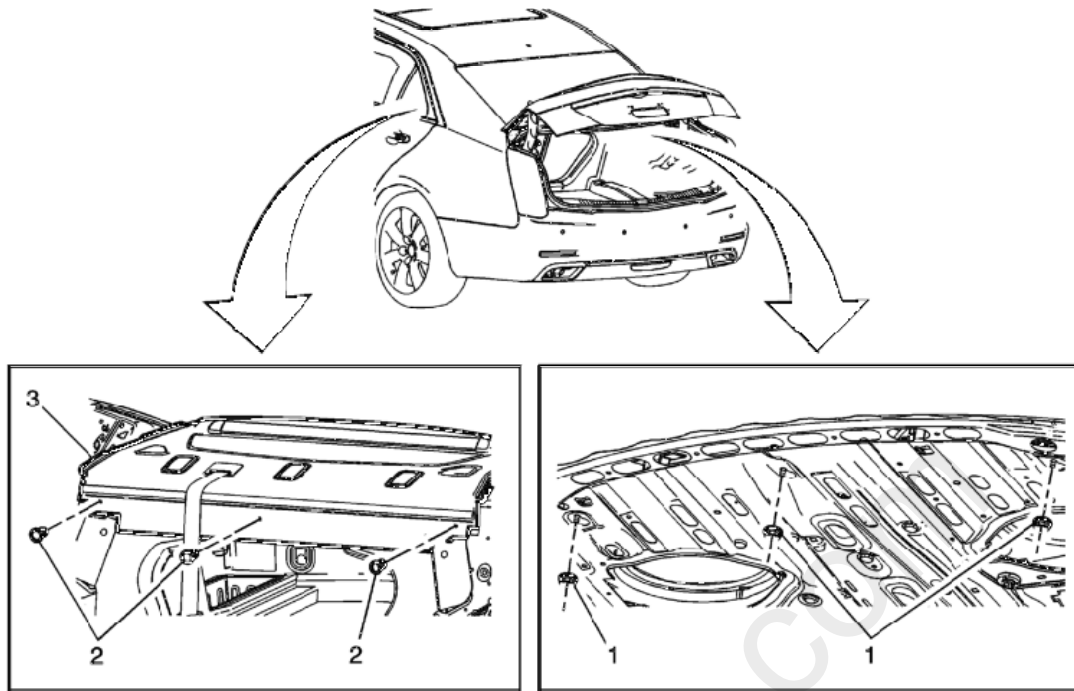


Fig. 14: Rear Window Panel Trim (with DB3)
Courtesy of GENERAL MOTORS COMPANY

9. Remove the rear window panel trim with DB3 (3), if equipped. Refer to **Rear Window Panel Trim Replacement (With DB3)** , **Rear Window Panel Trim Replacement (Without DB3)** .

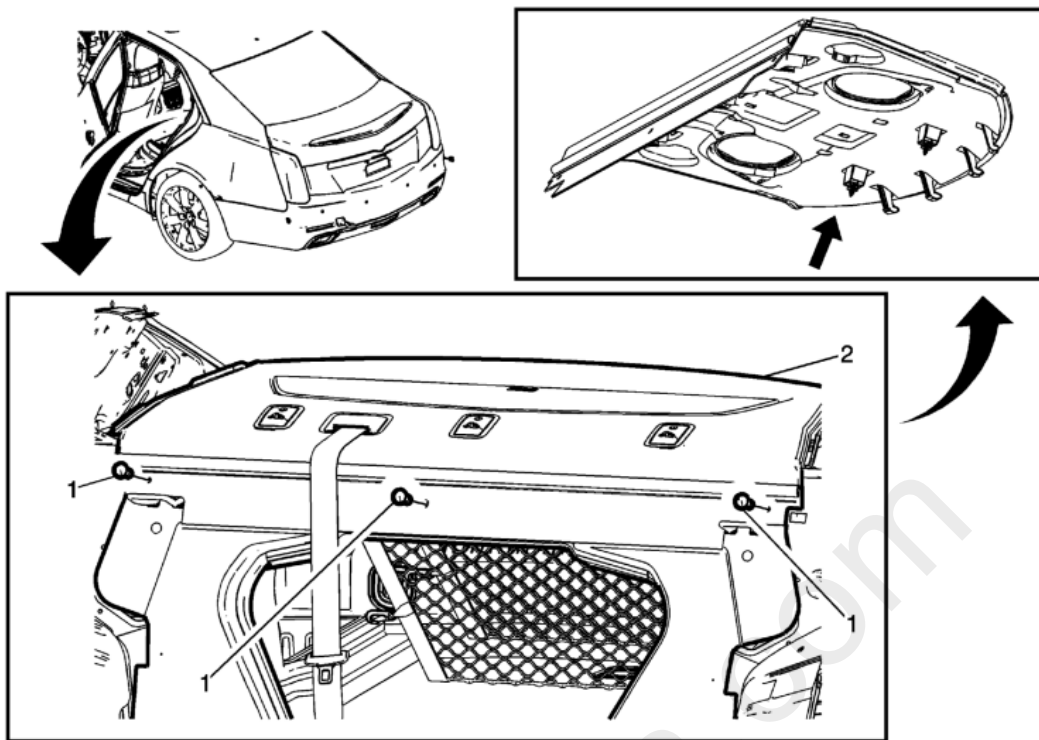


Fig. 15: Rear Window Panel Trim (without DB3)

Courtesy of GENERAL MOTORS COMPANY

10. Remove the rear window panel trim without DB3 (2), if equipped. Refer to **Rear Window Panel Trim Replacement (With DB3)** , **Rear Window Panel Trim Replacement (Without DB3)** .
11. Move the driver and passenger seats fully forward and recline.
12. Drop the headliner down.

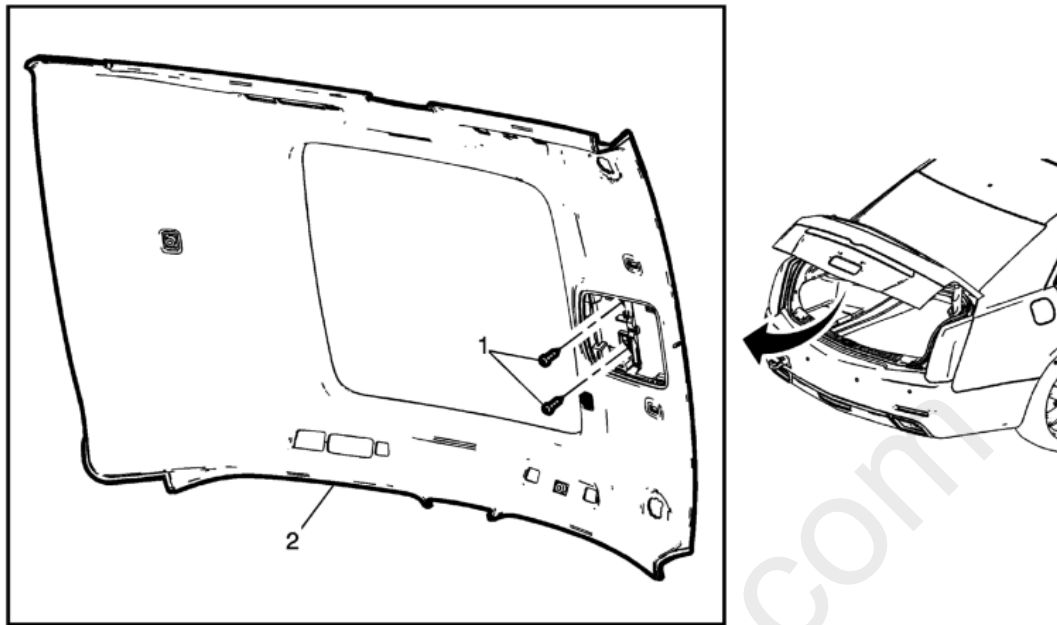


Fig. 16: Front Portion Of Headliner
Courtesy of GENERAL MOTORS COMPANY

13. Disconnect the electrical connectors from the headliner trim panel assembly.
14. Remove the two screws (1) from the front portion of the headliner at the roof console backing plate.
15. Remove the windshield. Refer to **Windshield Replacement** .
16. With the aid of an assistant, remove the headliner trim panel assembly (2) from the vehicle through the front windshield opening.

Installation Procedure

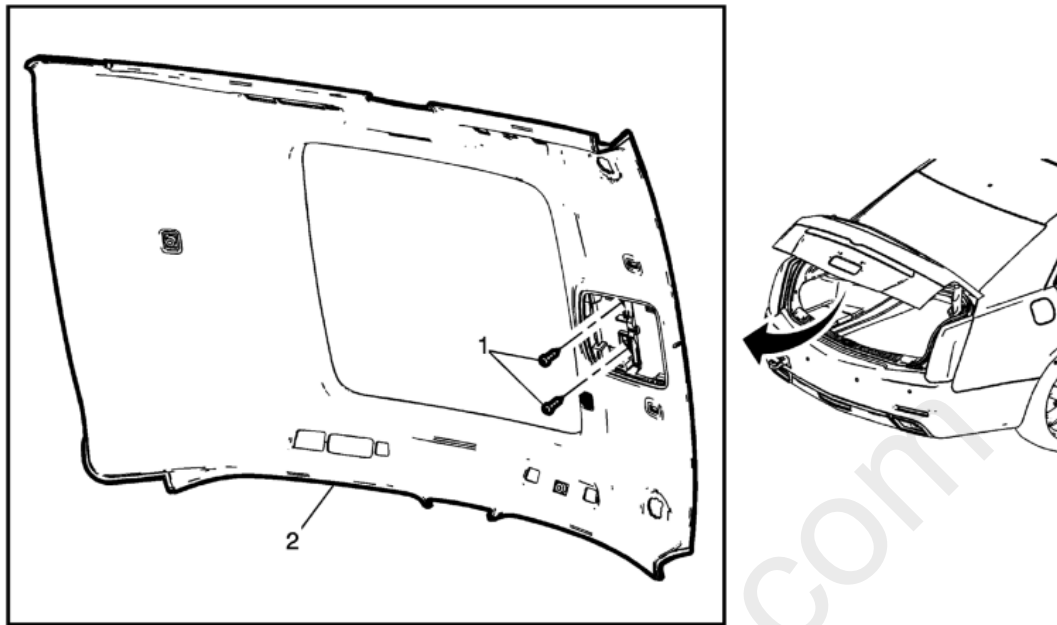


Fig. 17: Center Pillar Upper Trim Panel
Courtesy of GENERAL MOTORS COMPANY

1. With the aid of an assistant, position the headliner trim panel assembly (2) into the vehicle through the front windshield opening.
2. Install the two screws (1) to the front portion of the headliner at the roof console backing plate.
3. Connect the electrical connectors to the headliner trim panel assembly (1) and secure.
4. If replacing the headliner assembly, transfer all necessary components.

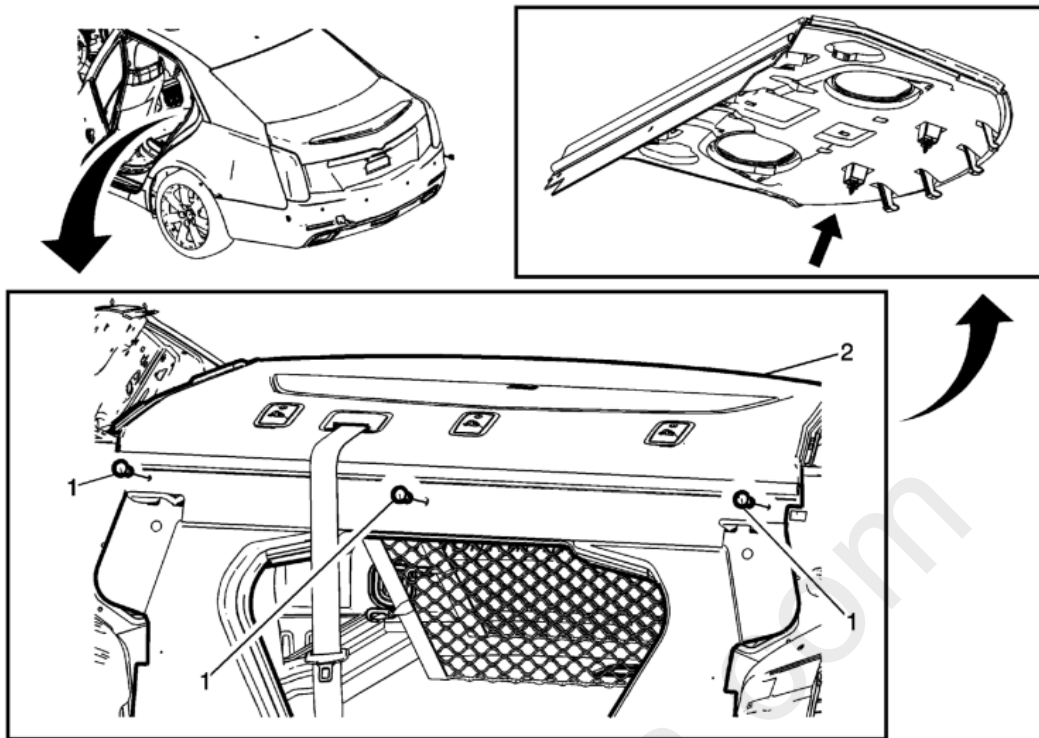


Fig. 18: Rear Window Panel Trim (without DB3)

Courtesy of GENERAL MOTORS COMPANY

5. Install the rear window panel trim without DB3 (2), if equipped. Refer to **Rear Window Panel Trim Replacement (With DB3)** , **Rear Window Panel Trim Replacement (Without DB3)** .

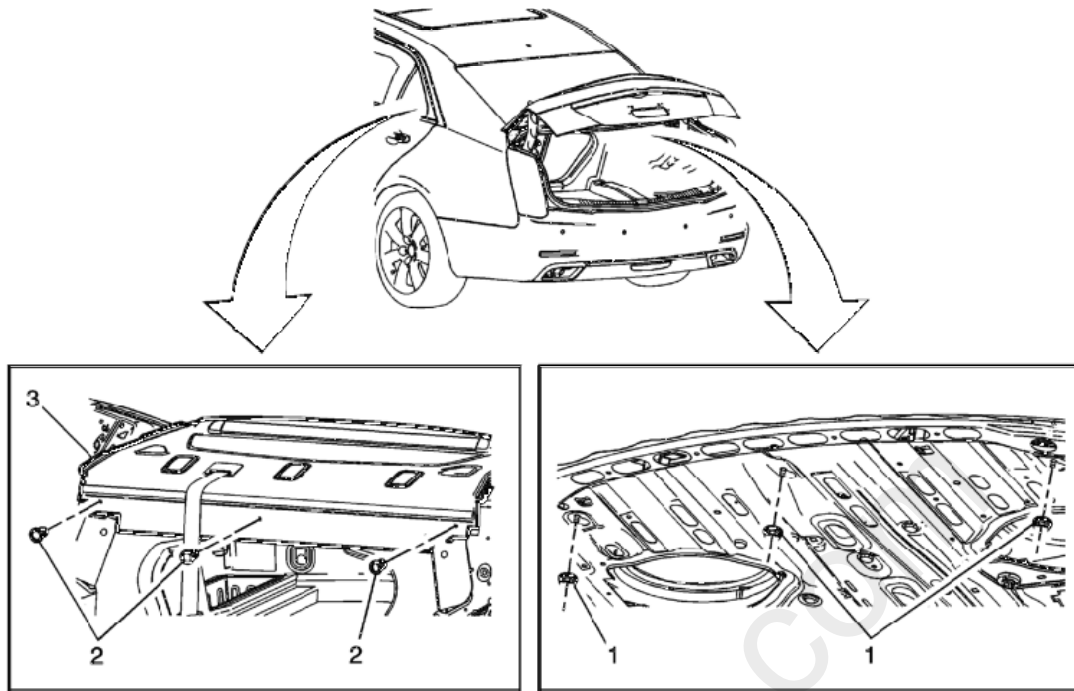


Fig. 19: Rear Window Panel Trim (with DB3)
Courtesy of GENERAL MOTORS COMPANY

6. Install the rear window panel trim with DB3 (3), if equipped. Refer to **Rear Window Panel Trim Replacement (With DB3)** , **Rear Window Panel Trim Replacement (Without DB3)** .

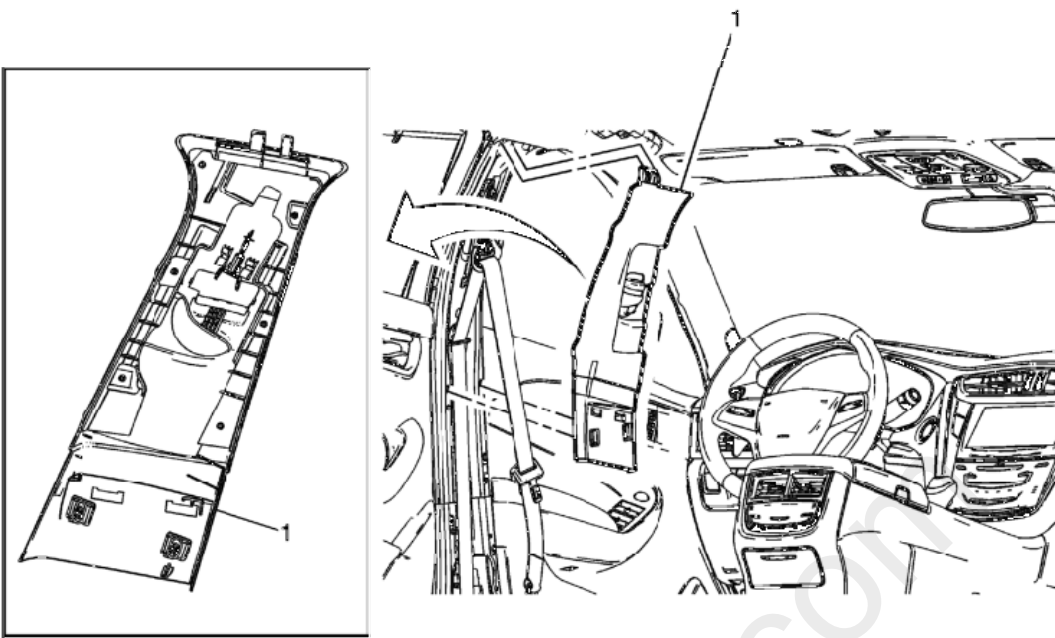


Fig. 20: Center Pillar Upper Trim Panel
Courtesy of GENERAL MOTORS COMPANY

7. Install the center pillar upper trim panel assembly (1). Refer to **Center Pillar Upper Trim Panel Replacement** .

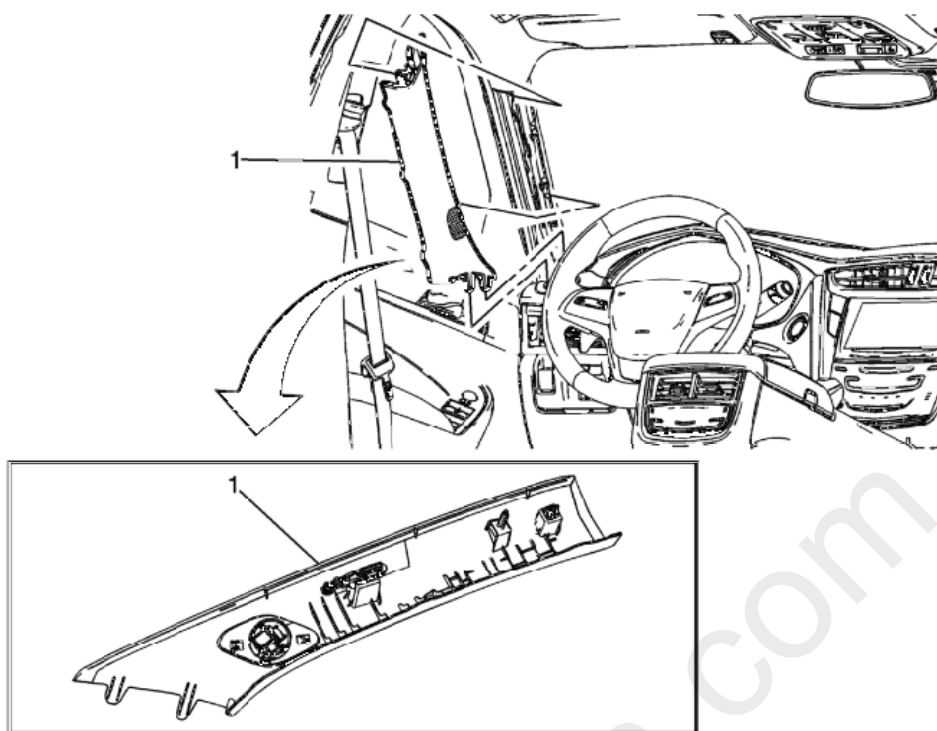


Fig. 21: Windshield Garnish Molding
Courtesy of GENERAL MOTORS COMPANY

8. Install the windshield garnish molding assembly (1). Refer to **Windshield Garnish Molding Replacement** .

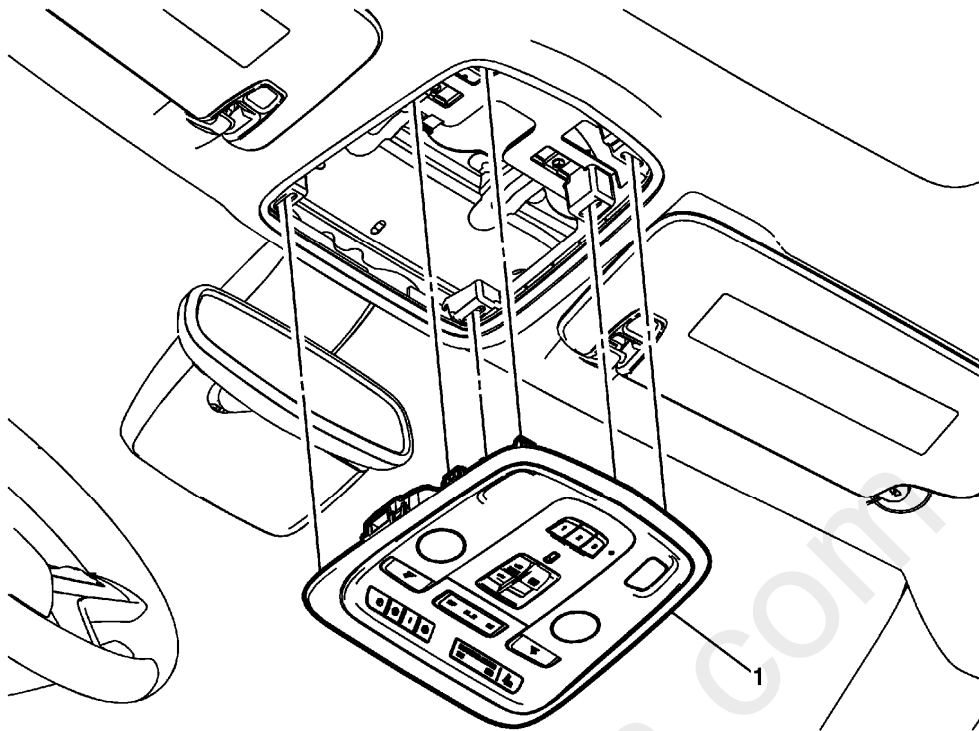


Fig. 22: Roof Console Assembly
Courtesy of GENERAL MOTORS COMPANY

9. Install the roof console assembly (1). Refer to **Roof Console Replacement** .

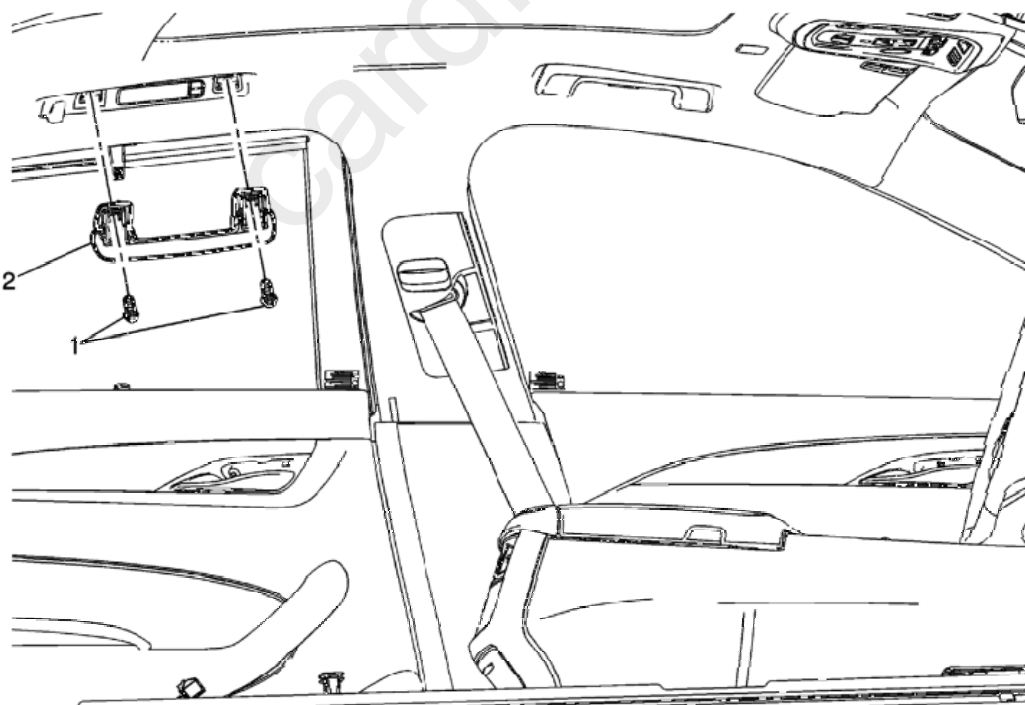


Fig. 23: Roof Rail Rear Assist Handle
Courtesy of GENERAL MOTORS COMPANY

10. Install the roof rail rear assist handle assembly (2). Refer to **Roof Rail Rear Assist Handle Replacement** .

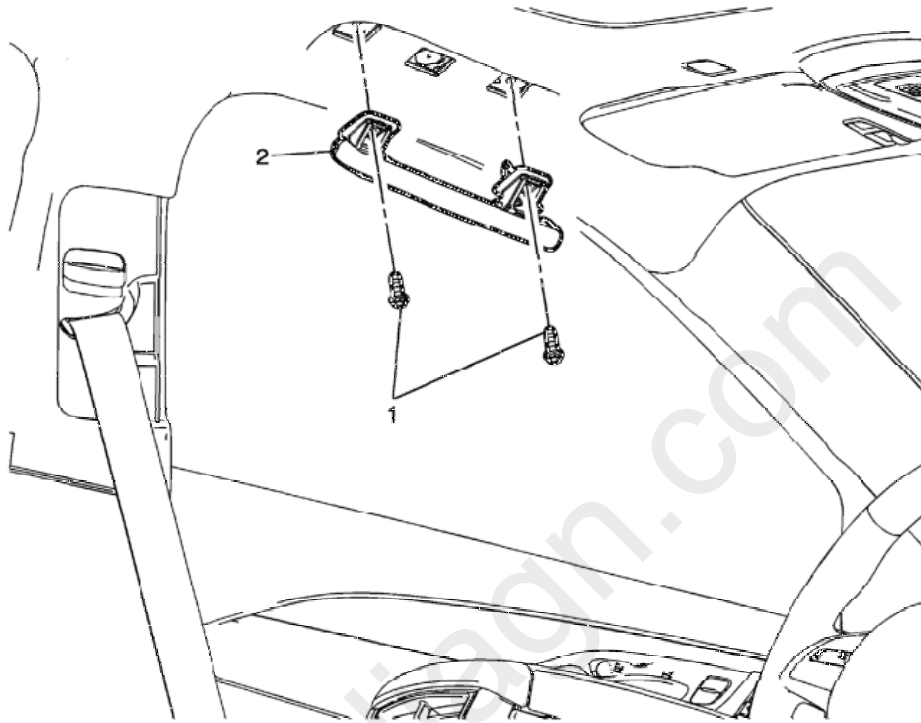


Fig. 24: Roof Rail Front Assist Handle
Courtesy of GENERAL MOTORS COMPANY

11. Install the roof rail front assist handle assembly (2). Refer to **Roof Rail Front Assist Handle Replacement** .

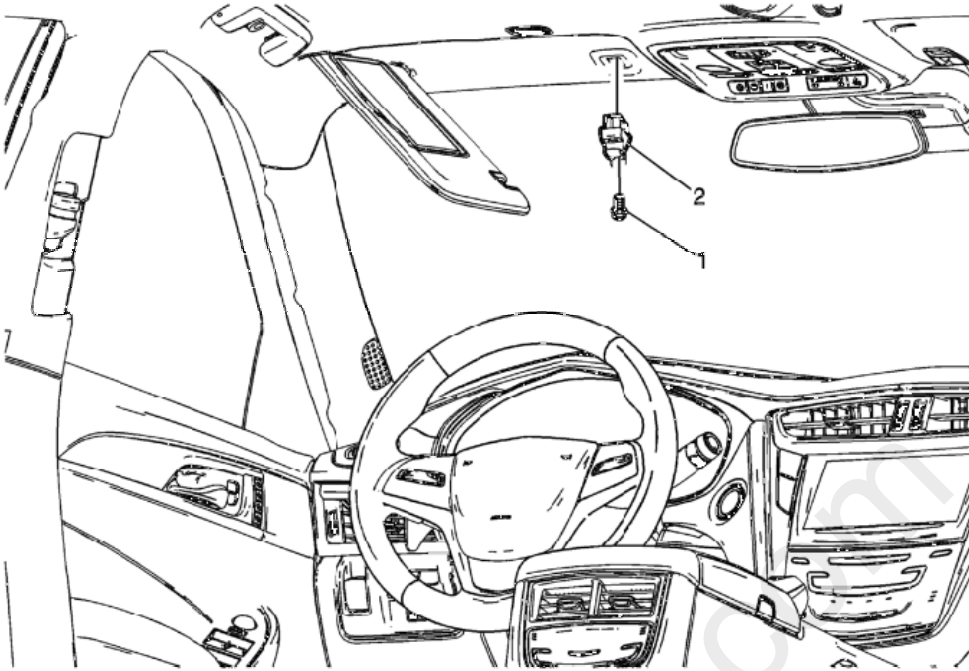


Fig. 25: Sunshade Support
 Courtesy of GENERAL MOTORS COMPANY

12. Install the sunshade support assembly (2). Refer to **Sunshade Support Replacement** .

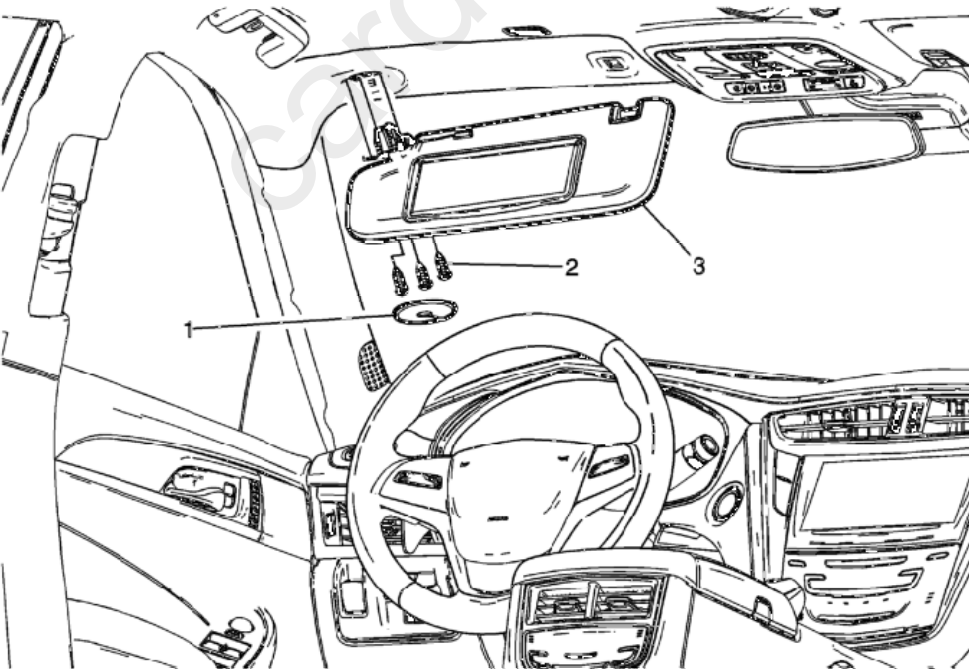


Fig. 26: Sunshade Assembly

Courtesy of GENERAL MOTORS COMPANY

13. Install the sunshade assembly (3). Refer to Sunshade Replacement .
14. Enable the SIR system. Refer to SIR Disabling and Enabling .

HEADLINING TRIM PANEL REPLACEMENT (WITHOUT SUNROOF)

Removal Procedure

WARNING: 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: If a vehicle is equipped with a head curtain inflator module ensure that the inflator module and tether are undamaged. If tether or curtain airbag are damaged in any way, they must be replaced.

CAUTION: Use care when working around the head curtain inflator module. Sharp tools may puncture the curtain airbag. If the head curtain inflator module is damaged in any way, it must be replaced.

1. Disable the SIR system. Refer to SIR Disabling and Enabling .

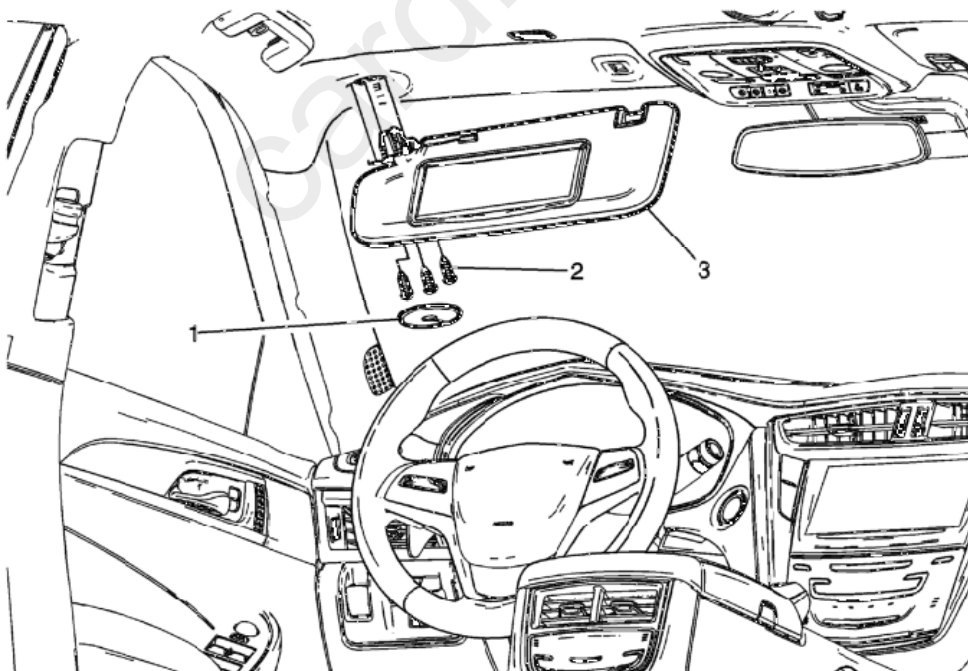


Fig. 27: Sunshade Assembly

Courtesy of GENERAL MOTORS COMPANY

2. Remove the sunshade assembly (3). Refer to **Sunshade Replacement** .

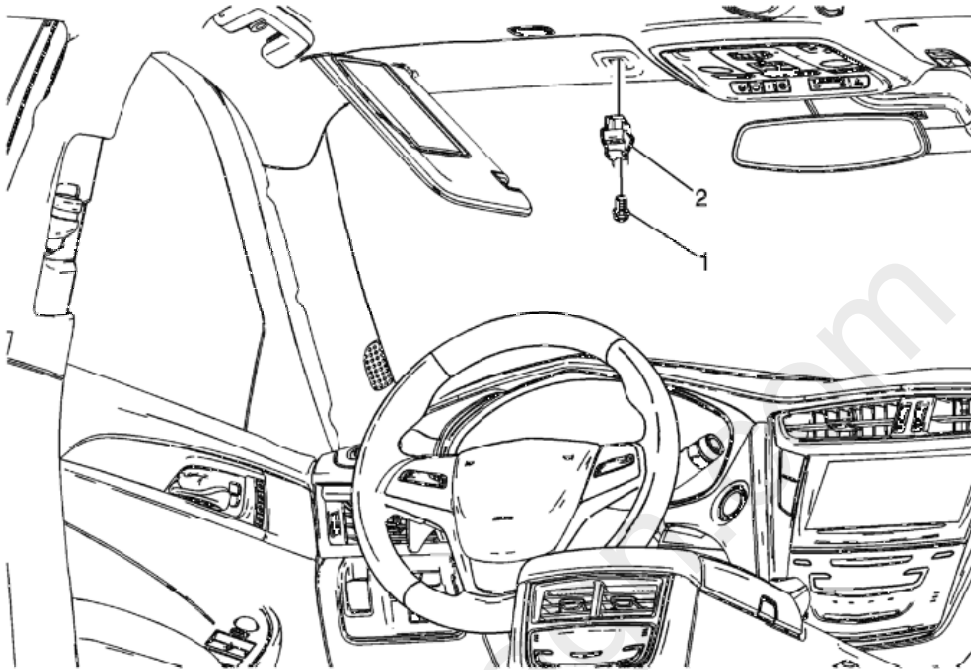


Fig. 28: Sunshade Support

Courtesy of GENERAL MOTORS COMPANY

3. Remove the sunshade support assembly (2). Refer to **Sunshade Support Replacement** .

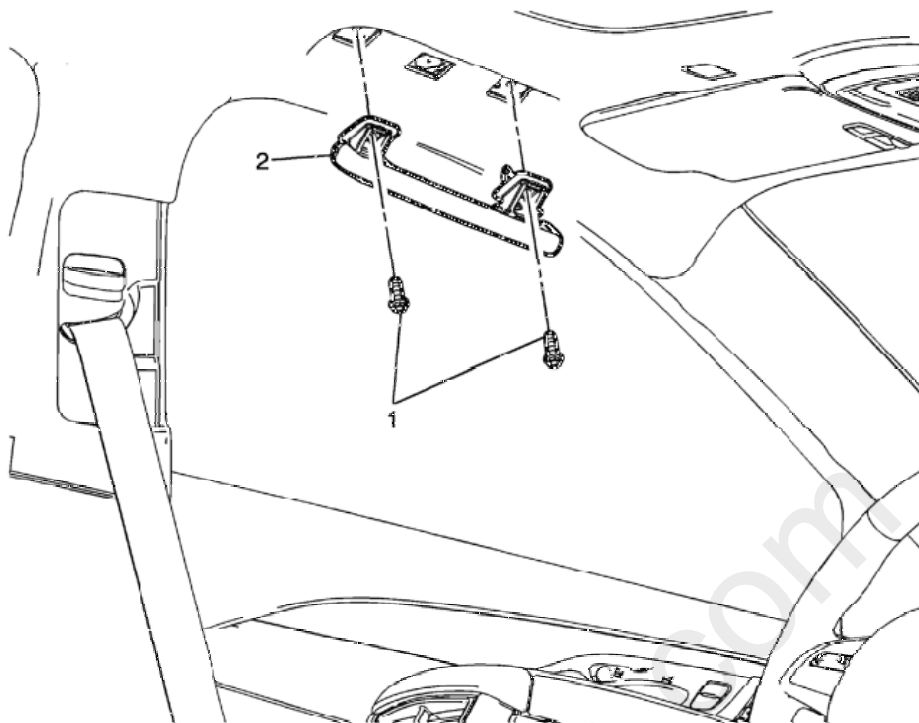


Fig. 29: Roof Rail Front Assist Handle
Courtesy of GENERAL MOTORS COMPANY

4. Remove the roof rail front assist handle assembly (2). Refer to **Roof Rail Front Assist Handle Replacement** .

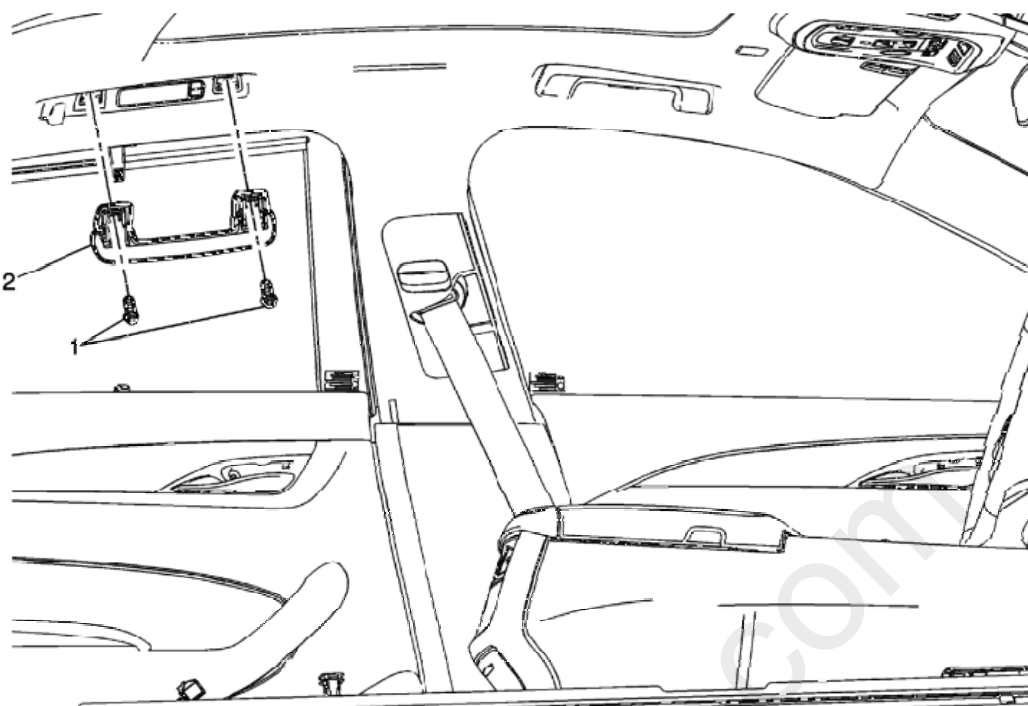


Fig. 30: Roof Rail Rear Assist Handle
Courtesy of GENERAL MOTORS COMPANY

5. Remove the roof rail rear assist handle assembly (2). Refer to **Roof Rail Rear Assist Handle Replacement** .

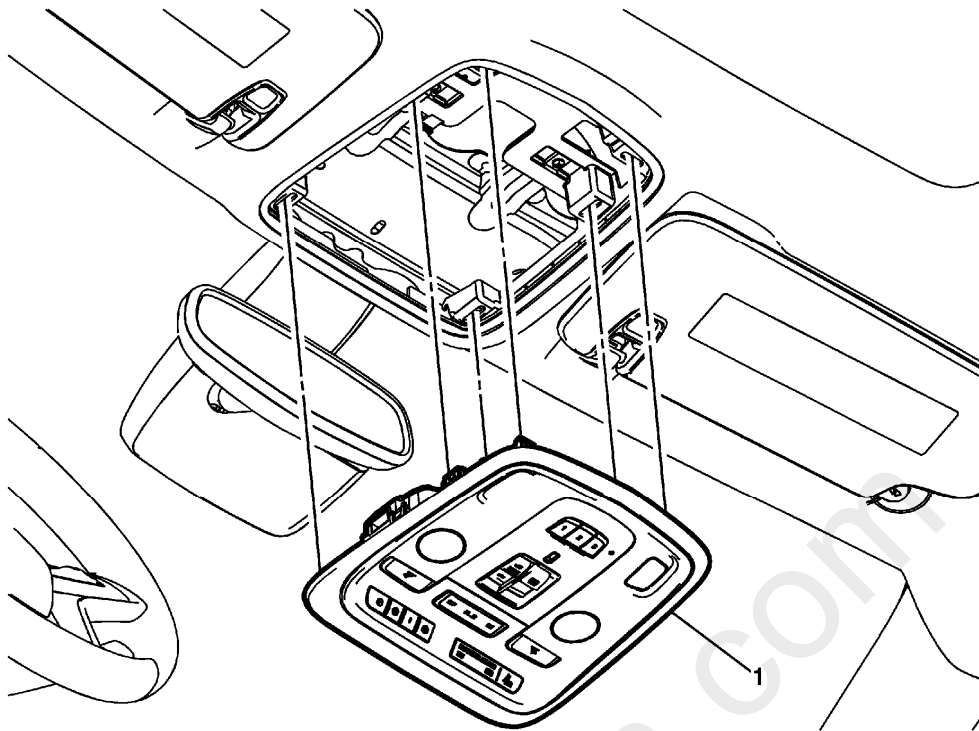


Fig. 31: Roof Console Assembly
 Courtesy of GENERAL MOTORS COMPANY

6. Remove the roof console assembly (1). Refer to **Roof Console Replacement** .

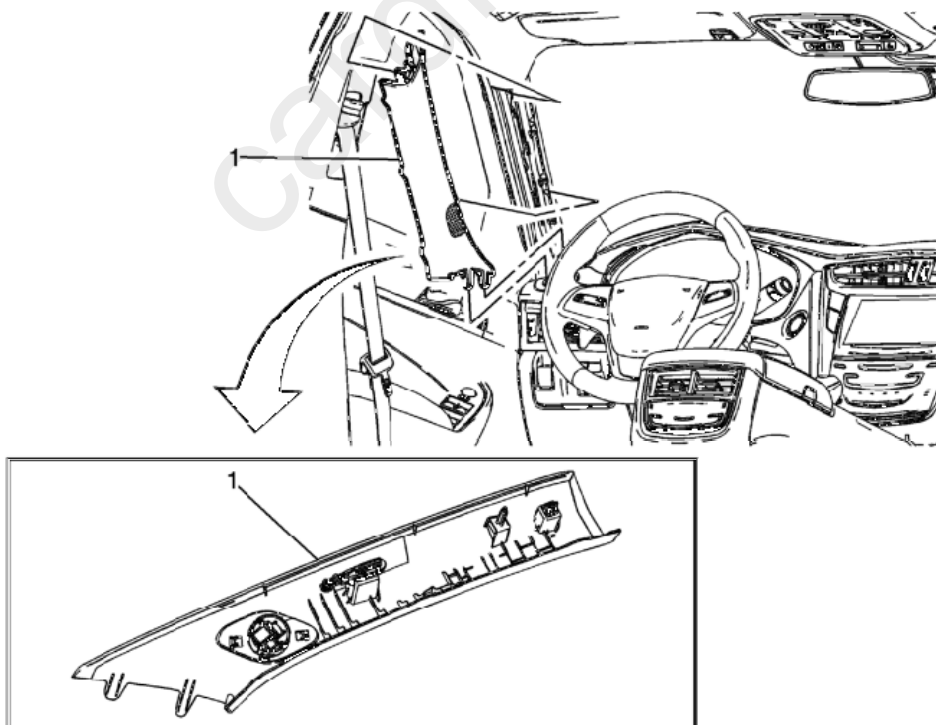


Fig. 32: Windshield Garnish Molding
Courtesy of GENERAL MOTORS COMPANY

7. Remove the windshield garnish molding assembly (1). Refer to **Windshield Garnish Molding Replacement** .

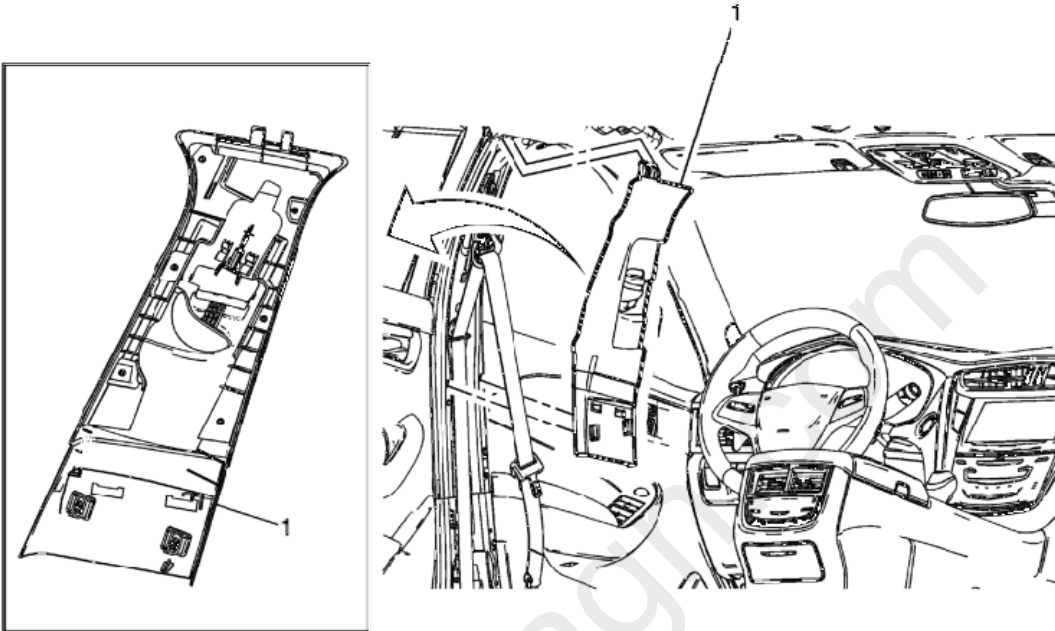


Fig. 33: Center Pillar Upper Trim Panel
Courtesy of GENERAL MOTORS COMPANY

8. Remove the center pillar upper trim panel assembly (1). Refer to **Center Pillar Upper Trim Panel Replacement** .

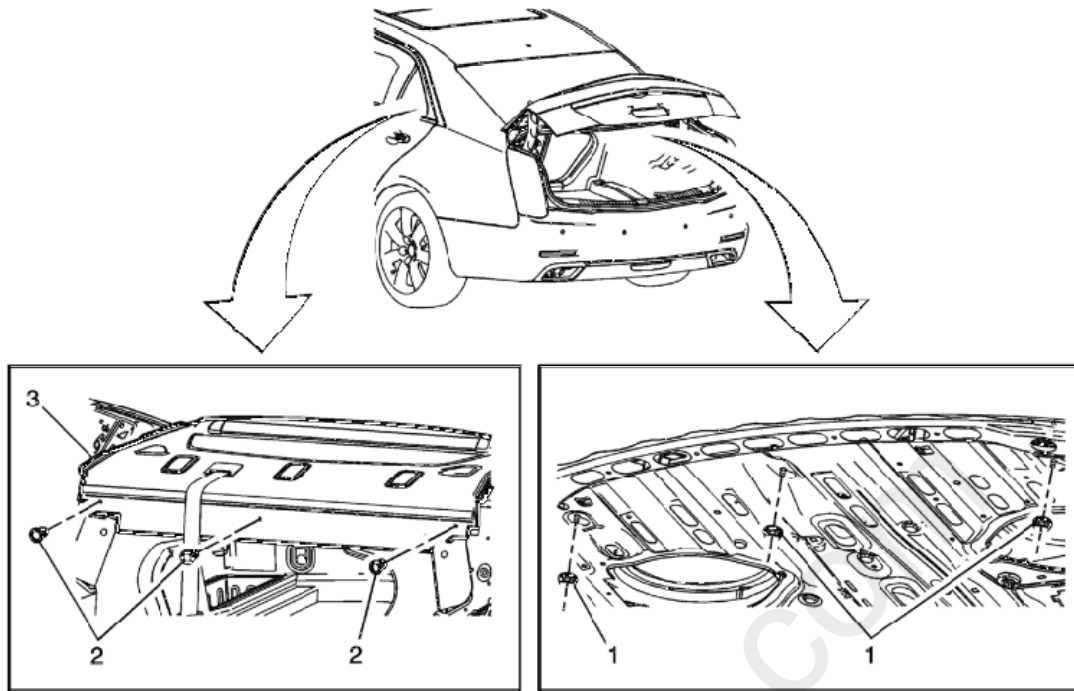


Fig. 34: Rear Window Panel Trim (with DB3)
Courtesy of GENERAL MOTORS COMPANY

9. Remove the rear window panel trim with DB3 (3), if equipped. Refer to **Rear Window Panel Trim Replacement (With DB3)** , **Rear Window Panel Trim Replacement (Without DB3)** .

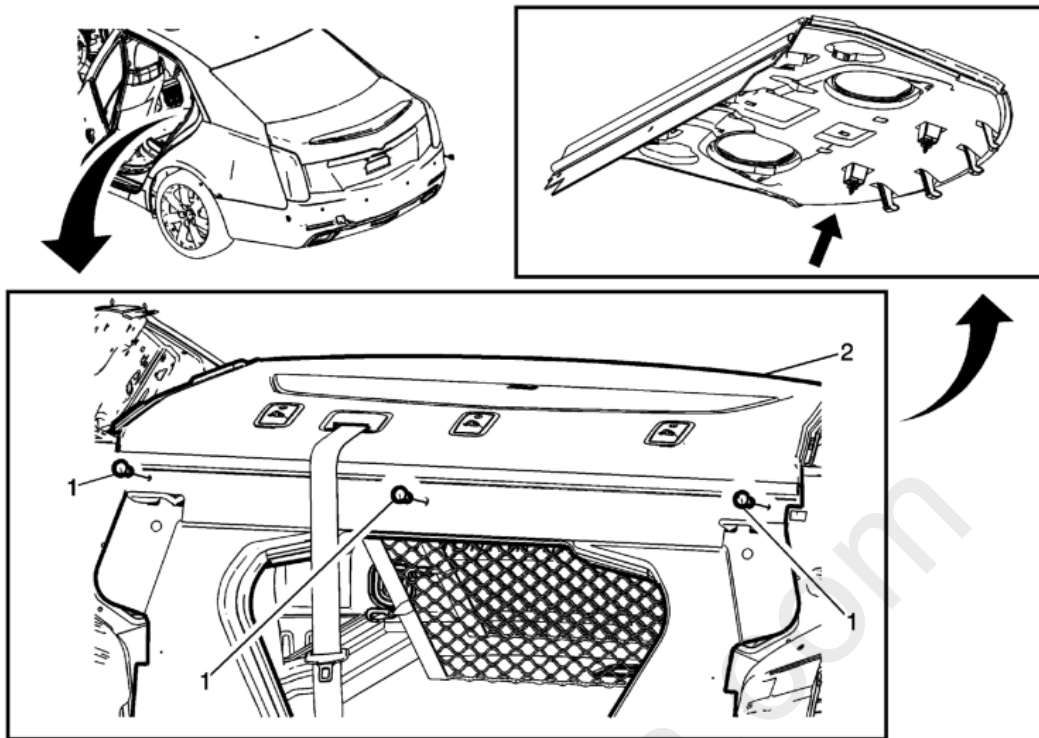


Fig. 35: Rear Window Panel Trim (without DB3)

Courtesy of GENERAL MOTORS COMPANY

10. Remove the rear window panel trim without DB3 (2), if equipped. Refer to **Rear Window Panel Trim Replacement (With DB3)** , **Rear Window Panel Trim Replacement (Without DB3)** .
11. Move the driver and passenger seats fully forward and recline.
12. Drop the headliner down.

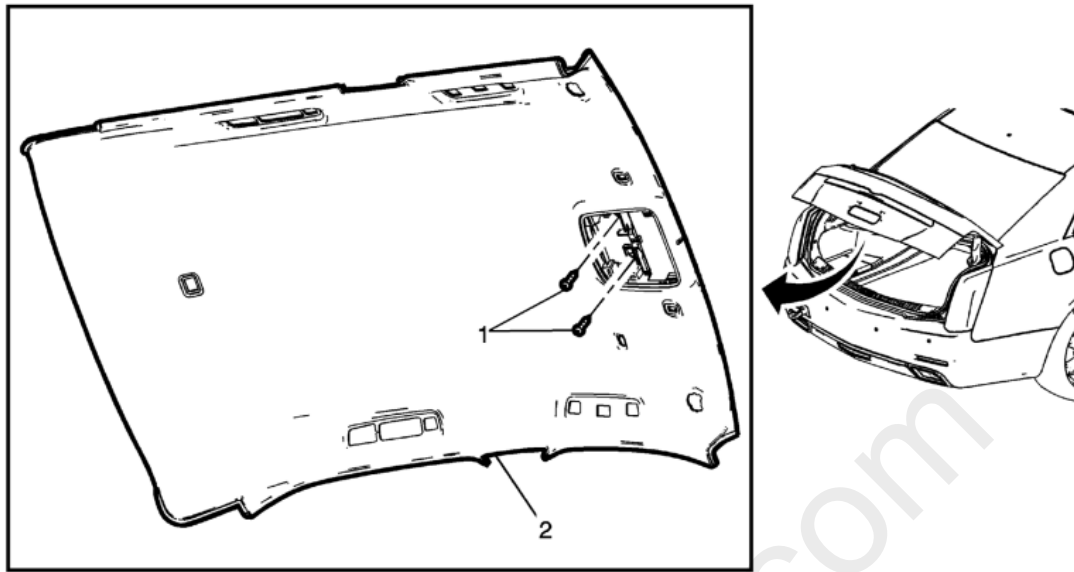


Fig. 36: Front Portion Of Headliner
Courtesy of GENERAL MOTORS COMPANY

13. Disconnect the electrical connectors from the headliner trim panel assembly.
14. Remove the two screws (1) from the front portion of the headliner at the roof console backing plate.
15. Remove the windshield. Refer to **Windshield Replacement** .
16. With the aid of an assistant, remove the headliner trim panel assembly (2) from the vehicle through the front windshield opening.

Installation Procedure

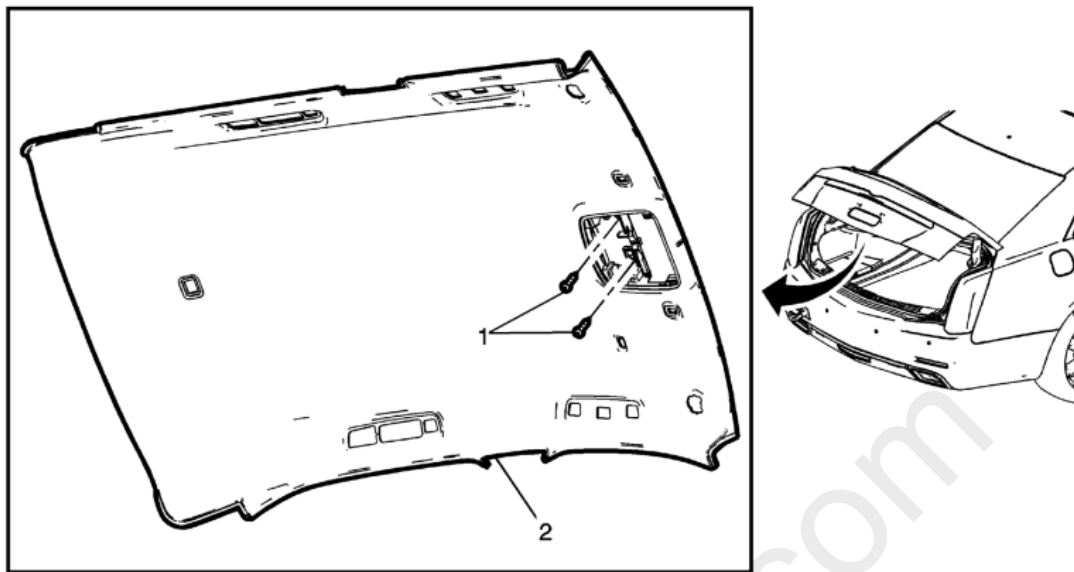


Fig. 37: Front Portion Of Headliner
Courtesy of GENERAL MOTORS COMPANY

1. With the aid of an assistant, position the headliner trim panel assembly (2) into the vehicle through the front windshield opening.
2. Install the two screws (1) to the front portion of the headliner at the roof console backing plate.
3. Connect the electrical connectors and secure.
4. If replacing the headliner assembly, transfer all necessary components.

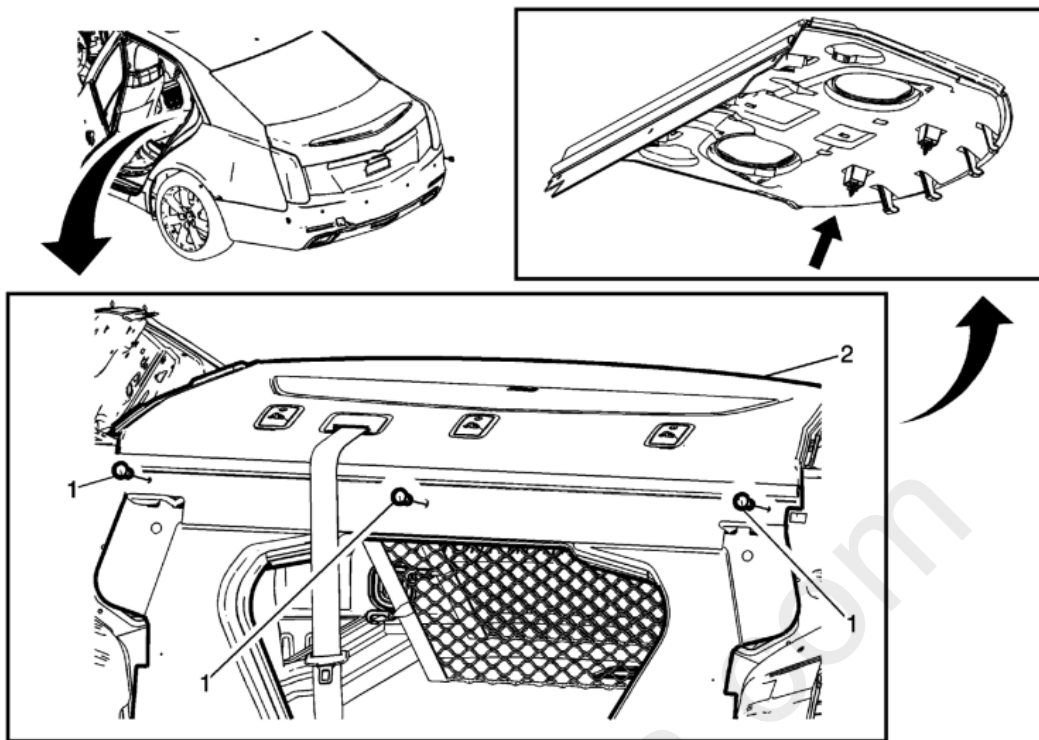


Fig. 38: Rear Window Panel Trim (without DB3)

Courtesy of GENERAL MOTORS COMPANY

5. Install the rear window panel trim without DB3 (2), if equipped. Refer to **Rear Window Panel Trim Replacement (With DB3)** , **Rear Window Panel Trim Replacement (Without DB3)** .

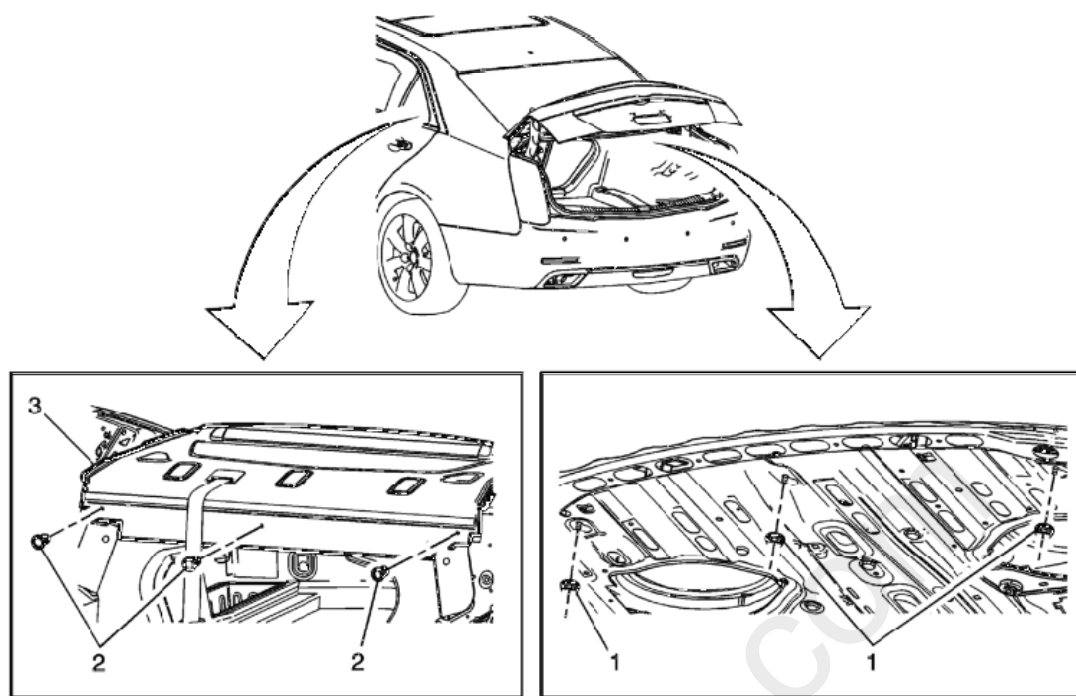


Fig. 39: Rear Window Panel Trim (with DB3)
Courtesy of GENERAL MOTORS COMPANY

6. Install the rear window panel trim with DB3 (3), if equipped. Refer to **Rear Window Panel Trim Replacement (With DB3)** , **Rear Window Panel Trim Replacement (Without DB3)** .

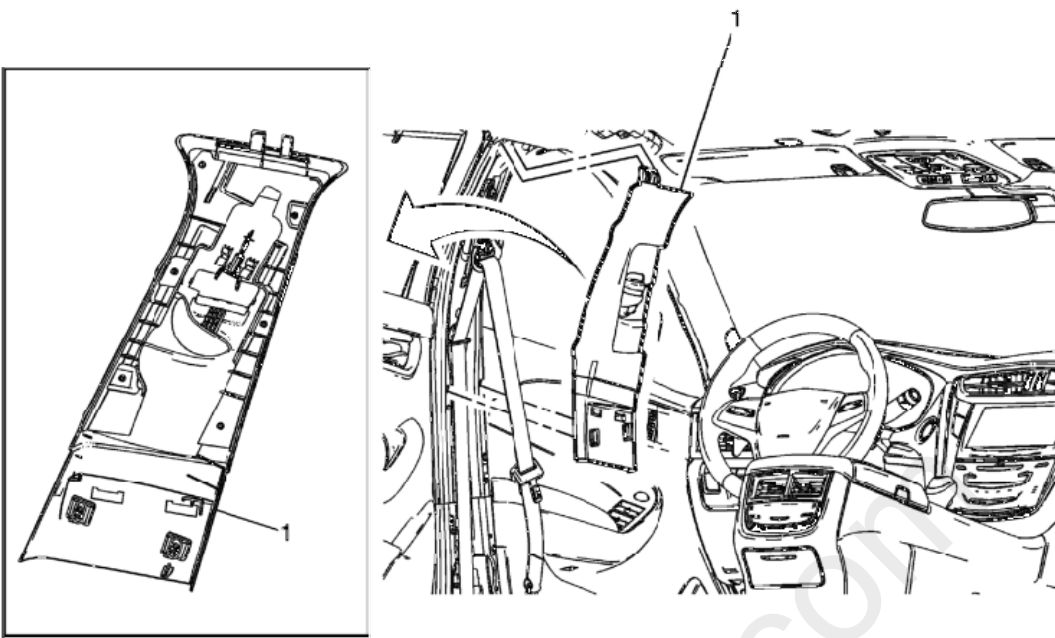


Fig. 40: Center Pillar Upper Trim Panel
Courtesy of GENERAL MOTORS COMPANY

7. Install the center pillar upper trim panel assembly (1). Refer to **Center Pillar Upper Trim Panel Replacement** .

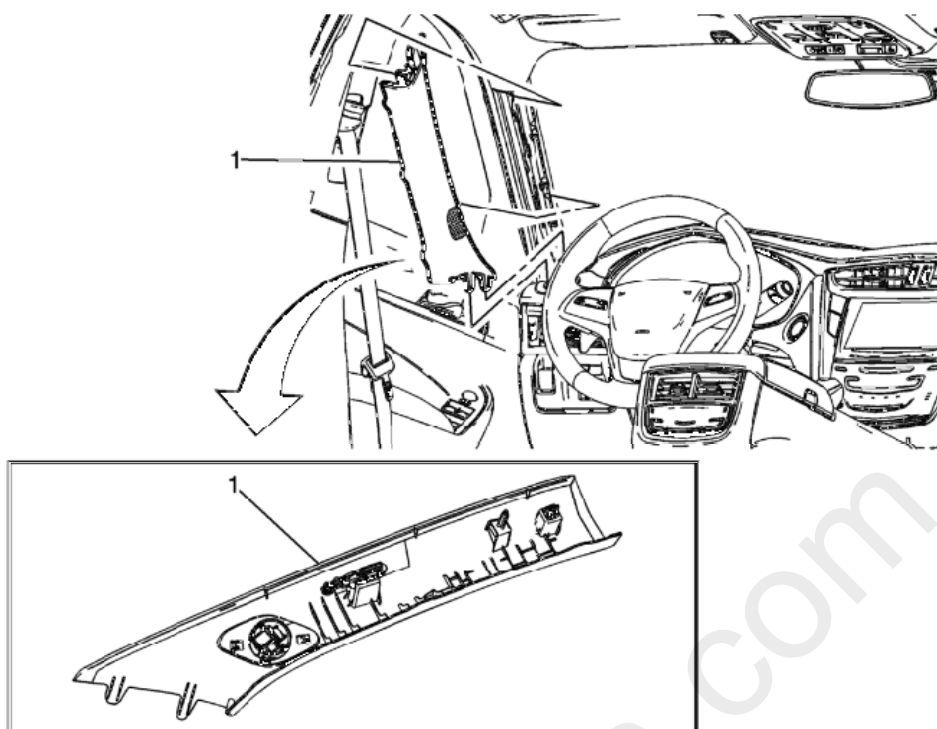


Fig. 41: Windshield Garnish Molding
Courtesy of GENERAL MOTORS COMPANY

8. Install the windshield garnish molding assembly (1). Refer to **Windshield Garnish Molding Replacement** .

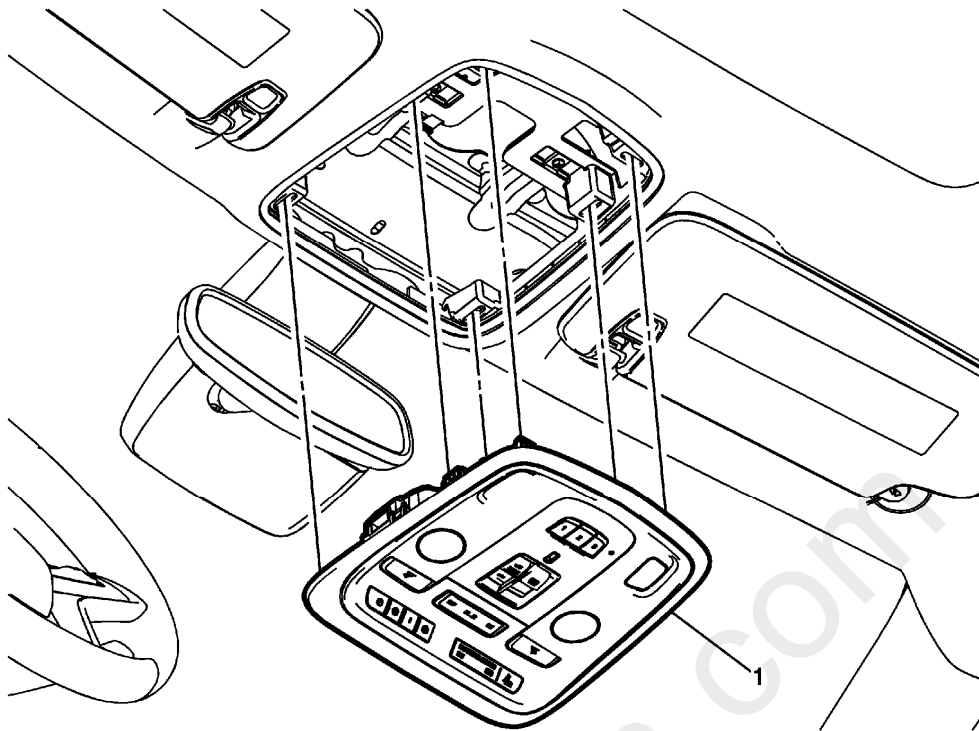


Fig. 42: Roof Console Assembly
 Courtesy of GENERAL MOTORS COMPANY

9. Install the roof console assembly (1). Refer to **Roof Console Replacement** .

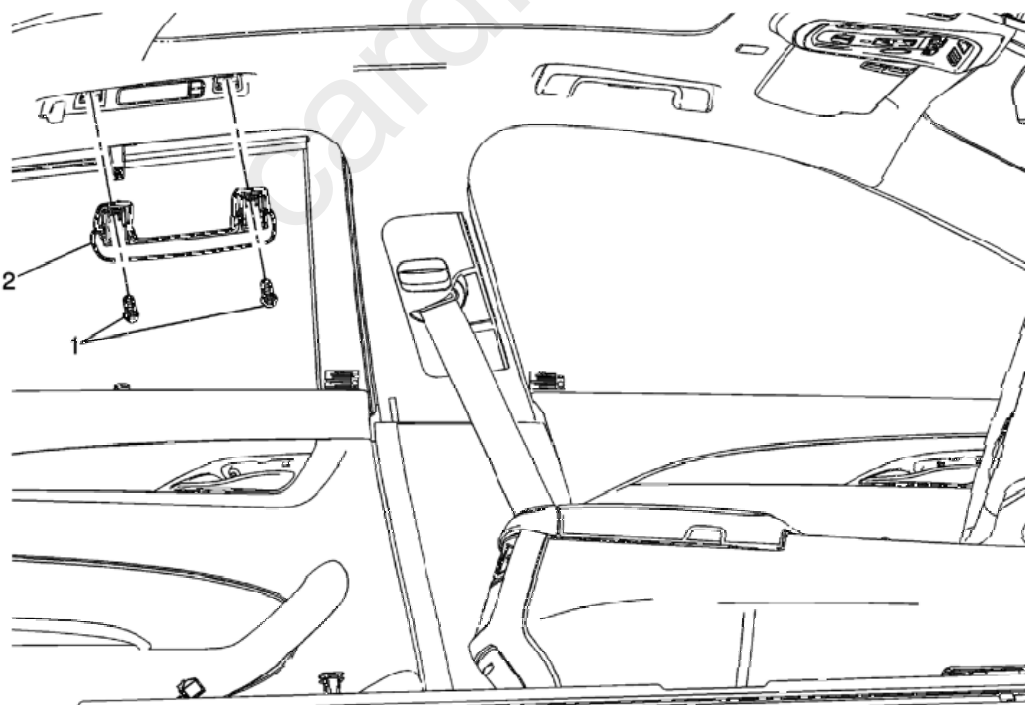


Fig. 43: Roof Rail Rear Assist Handle
Courtesy of GENERAL MOTORS COMPANY

10. Install the roof rail rear assist handle assembly (2). Refer to **Roof Rail Rear Assist Handle Replacement** .

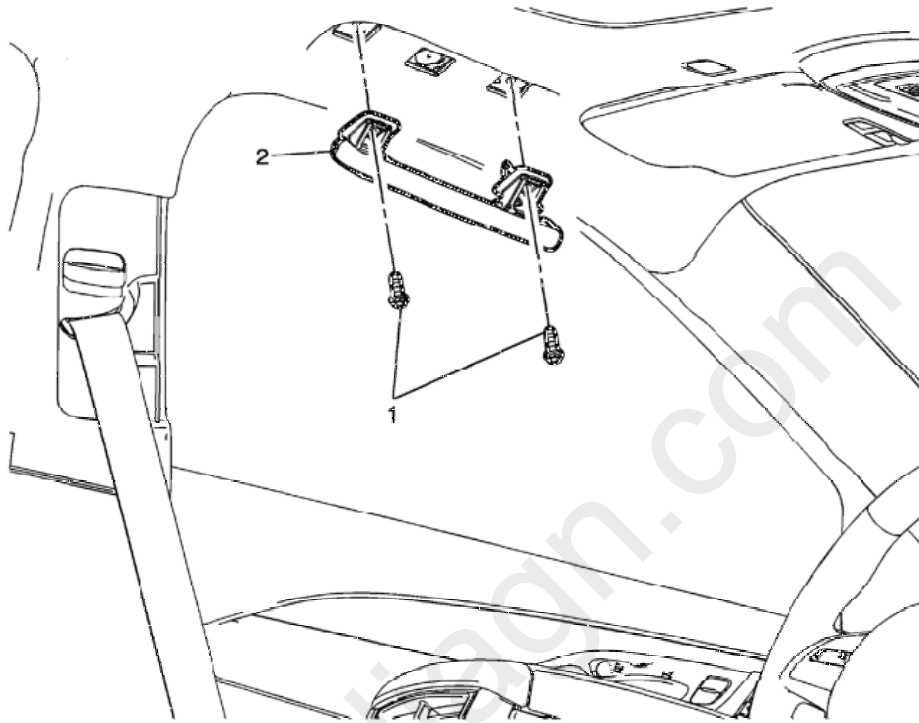


Fig. 44: Roof Rail Front Assist Handle
Courtesy of GENERAL MOTORS COMPANY

11. Install the roof rail front assist handle assembly (2). Refer to **Roof Rail Front Assist Handle Replacement** .

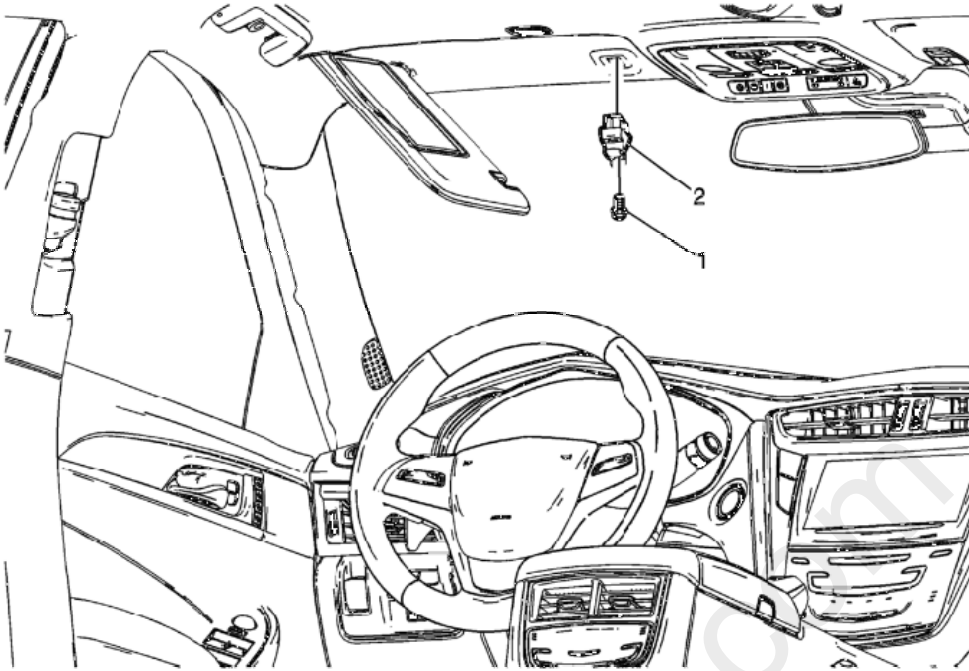


Fig. 45: Sunshade Support
Courtesy of GENERAL MOTORS COMPANY

12. Install the sunshade support assembly (2). Refer to **Sunshade Support Replacement** .

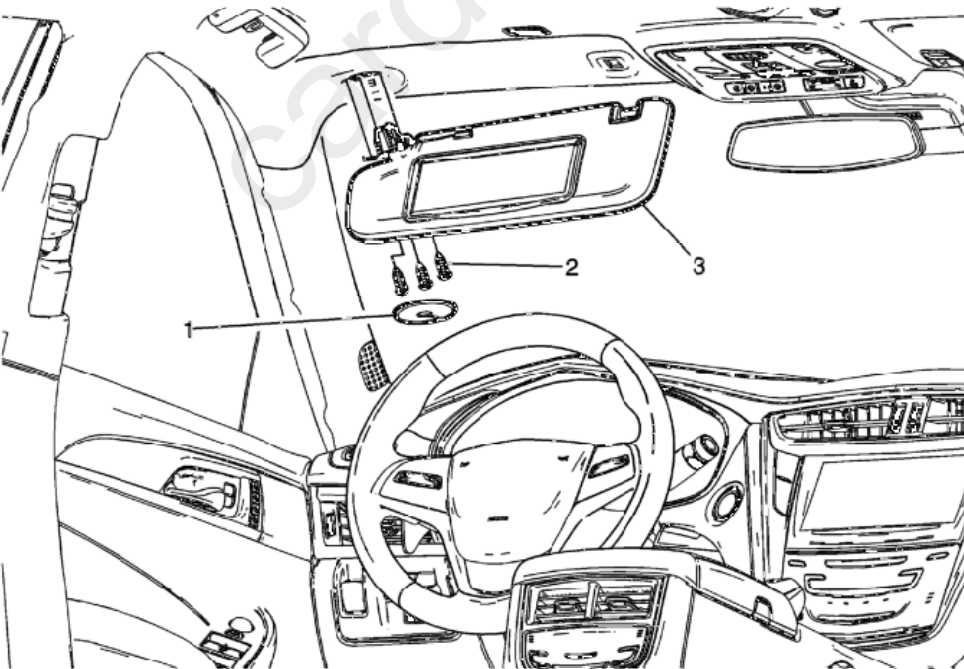


Fig. 46: Sunshade Assembly

Courtesy of GENERAL MOTORS COMPANY

13. Install the sunshade assembly (3). Refer to **Sunshade Replacement** .
14. Enable the SIR system. Refer to **SIR Disabling and Enabling** .

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