

ACCESSORIES & EQUIPMENT

Floor Coverings and Headlinings - CTS Coupe & Wagon

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Headliner Trim Panel Retainer Nut	2 N.m	18 lb in

ADHESIVES, FLUIDS, LUBRICANTS, AND SEALERS

Adhesives, Fluids, Lubricants, and Sealers

Application	Type of Material	GM Part Number	
		United States	Canada
GM Vehicle Care Odor Eliminator	Fluids	88861431	88861436

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. If lost, contact 800-977-4145 to get a replacement set faxed or e-mailed to your dealership.
- 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.

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.
- For a 1-piece carpet assembly with a separate cotton or a fiber padding, replace the cotton or fiber padding. While the carpet is out of the vehicle, dry the carpet 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 (WAGON)

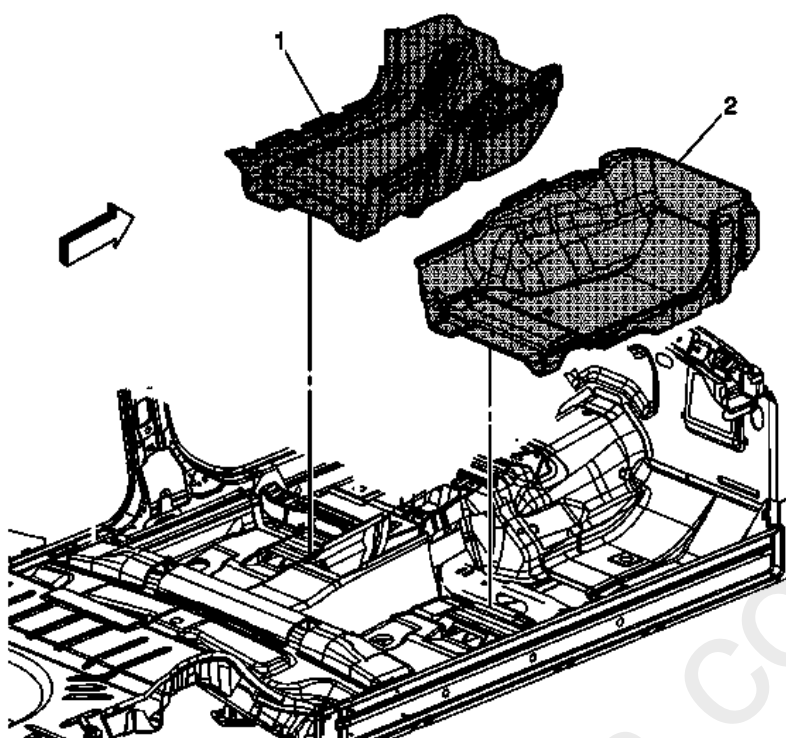


Fig. 1: View of Front Floor Panel

Courtesy of GENERAL MOTORS COMPANY

Front Floor Panel Carpet Replacement (Wagon)

Callout	Component Name
NOTE: Remove applicable components for left or right side, as needed.	
Preliminary Procedures	
1. Remove the front seat bucket. Refer to <u>Front Seat Removal and Installation - Bucket (W2E)</u> , <u>Front Seat Removal and Installation - Bucket (AQ9)</u> .	
2. Remove the front side door sill trim plate. Refer to <u>Front Side Door Sill Trim Plate Replacement (Wagon)</u> .	
3. Remove the center pillar lower trim panel. Refer to <u>Center Pillar Lower Trim Panel Replacement (Wagon)</u> .	
1	Front Floor Panel Carpet- Left Front
2	Front Floor Panel Carpet- Right Front

FRONT FLOOR PANEL CARPET REPLACEMENT (COUPE)

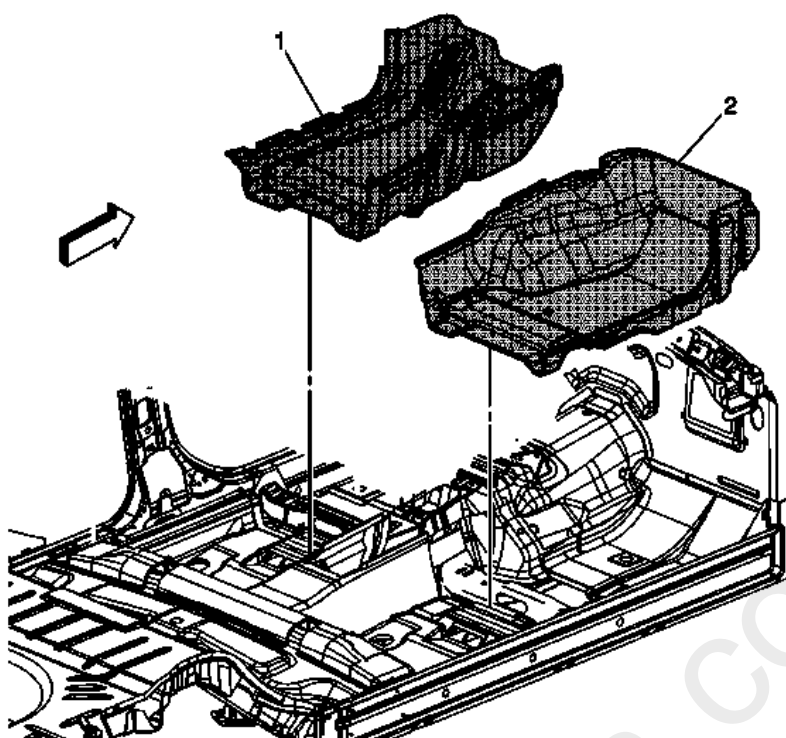


Fig. 2: View of Front Floor Panel

Courtesy of GENERAL MOTORS COMPANY

Front Floor Panel Carpet Replacement (Coupe)

Callout	Component Name
NOTE: Remove applicable components for left or right side, as needed.	
Preliminary Procedures	
1. Remove the front seat bucket. Refer to <u>Front Seat Removal and Installation - Bucket (W2E)</u> , <u>Front Seat Removal and Installation - Bucket (AQ9)</u> .	
2. Remove the front side door sill trim plate. Refer to <u>Front Side Door Sill Trim Plate Replacement (Coupe)</u> .	
3. Remove front side door inside handle cable cover. Refer to <u>Front Side Door Inside Handle Cable Replacement</u> .	
1	Front Floor Panel Carpet- Left Front
2	Front Floor Panel Carpet- Right Front

REAR FLOOR PANEL CARPET REPLACEMENT

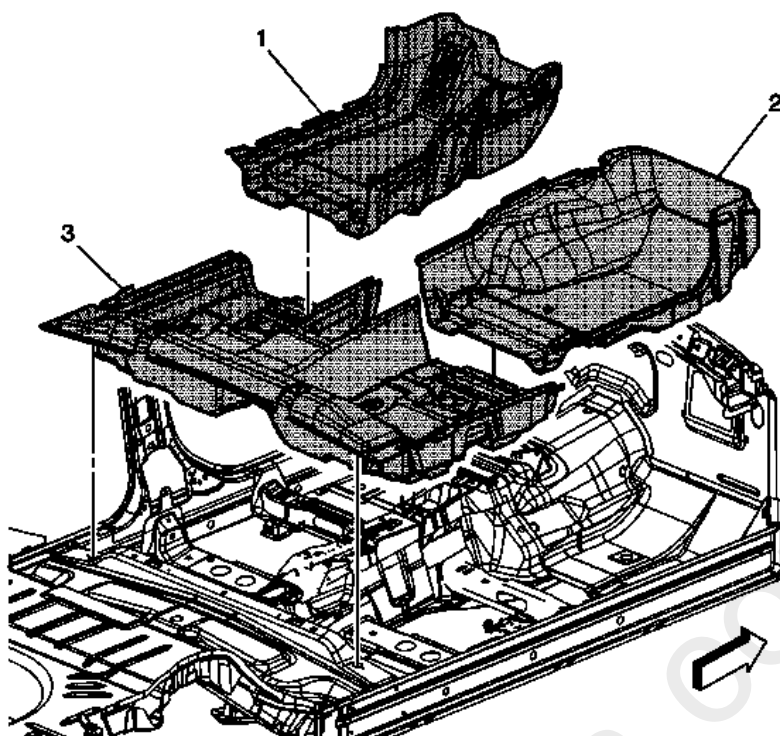


Fig. 3: Exploded View of Rear Floor Panel
 Courtesy of GENERAL MOTORS COMPANY

Rear Floor Panel Carpet Replacement

Callout	Component Name
Preliminary Procedures	
1.	Remove the front seats. Refer to <u>Front Seat Removal and Installation - Bucket (W2E)</u> , <u>Front Seat Removal and Installation - Bucket (AQ9)</u> .
2.	Remove the rear seat cushion. Refer to <u>Rear Seat Cushion Removal and Installation (Coupe)</u> , <u>Rear Seat Cushion Removal and Installation (Wagon)</u> .
3.	Remove the front floor console. Refer to <u>Front Floor Console Replacement (Right Hand Drive)</u> , <u>Front Floor Console Replacement (Left Hand Drive)</u> .
4.	Remove the front side door sill plates. Refer to <u>Front Side Door Sill Trim Plate Replacement (Coupe)</u> , <u>Front Side Door Sill Trim Plate Replacement (Wagon)</u> .
5.	Remove the rear door sill plates. Refer to <u>Rear Side Door Sill Trim Plate Replacement (Wagon)</u> .
6.	Remove the center pillar lower molding. Refer to <u>Center Pillar Lower Trim Panel Replacement (Wagon)</u> .
1	Front Floor Panel Carpet- Left Front
2	Front Floor Panel Carpet- Right Front
3	Floor Panel Carpet- Rear TIP: Route carpet openings on left and right over floor duct openings. TIP: Remove floor duct outlets from rear carpet.

CARDBOARD INSULATOR HEADLINER REPLACEMENT

Removal Procedure

1. Remove the headliner. Refer to Headlining Trim Panel Replacement (Coupe), Headlining Trim Panel Replacement (Wagon).

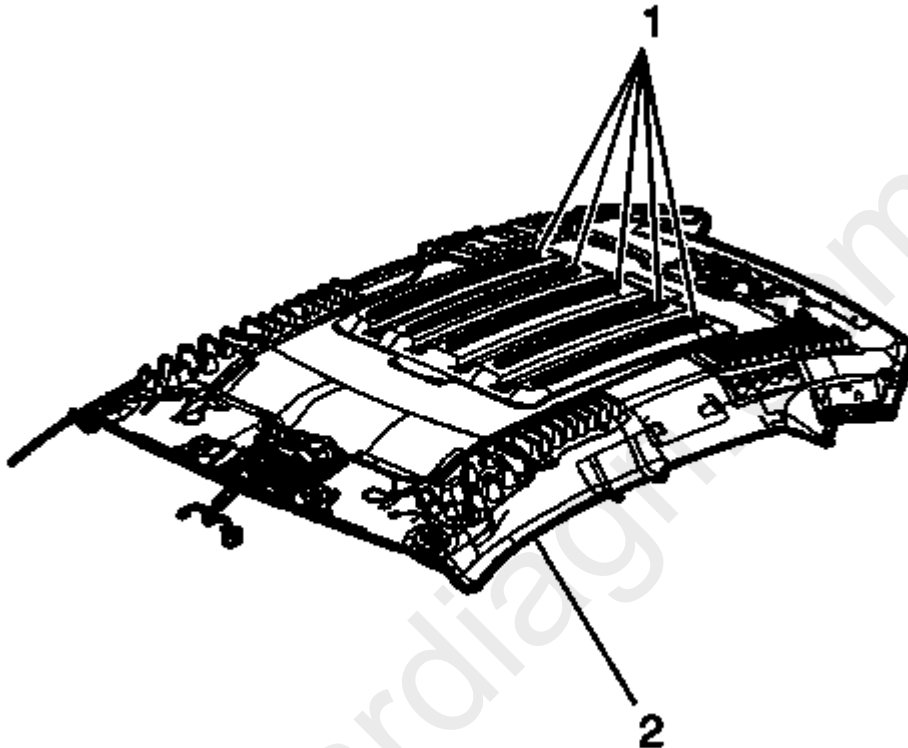


Fig. 4: Identifying Adhesive Beads
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Use care when removing the cardboard roof insulator. Excessive pressure can cause dents in the roof panel.

2. Starting in one corner of the cardboard, pulling downward, cut the adhesive beads (1) using a sharp putty knife or equivalent.

NOTE: It is not necessary to remove all of the old adhesive from the roof panel.

3. Cut off the majority of the loose adhesive beads.
4. Remove the cardboard roof insulator.

Installation Procedure

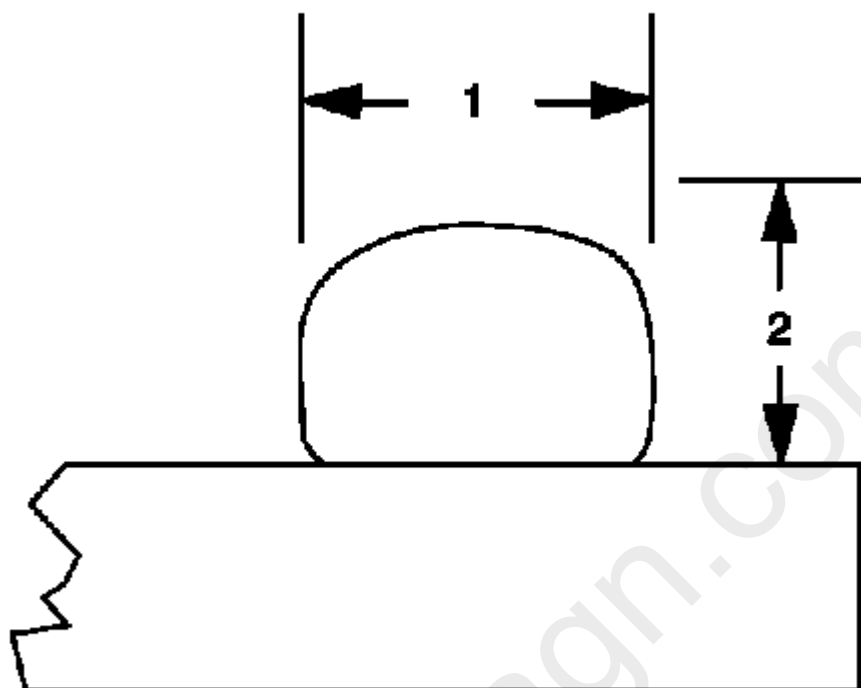


Fig. 5: Identifying Specified Height & Width Of Adhesive
Courtesy of GENERAL MOTORS COMPANY

NOTE: Installation of a new cardboard roof insulator is necessary to ensure the acoustical integrity of the roof system. Use a trim panel general purpose adhesive to reattach the cardboard insulator to the vehicle.

1. Apply 6 mm (1/4 in) to 11 mm (1/2 in) high (2) beads of adhesive 15 mm (5/8 in) wide (1).

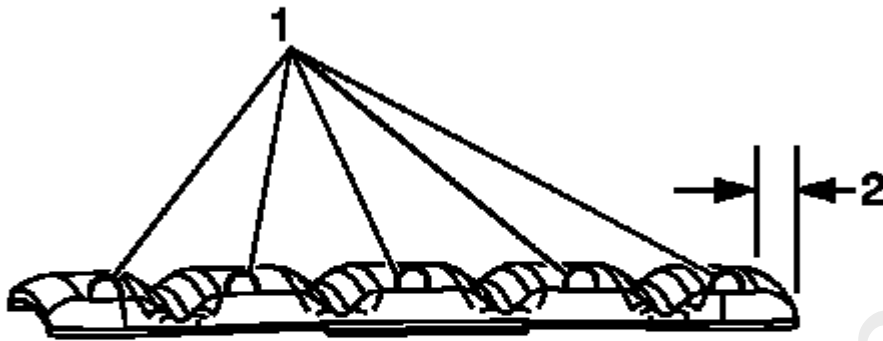


Fig. 6: Locating Adhesive

Courtesy of GENERAL MOTORS COMPANY

2. Apply the adhesive in the locations marked on the cardboard insulator (1).

NOTE: The cardboard roof insulator must be installed within five minutes of adhesive application.

3. Place the cardboard roof insulator to the inner roof panel.

NOTE: Gluing the headliner to the cardboard roof insulator during installation is not required.

4. Install the headliner. Refer to Headlining Trim Panel Replacement (Coupe), Headlining Trim Panel Replacement (Wagon) for non sunroof only.

HEADLINING TRIM PANEL REPLACEMENT (COUPE)

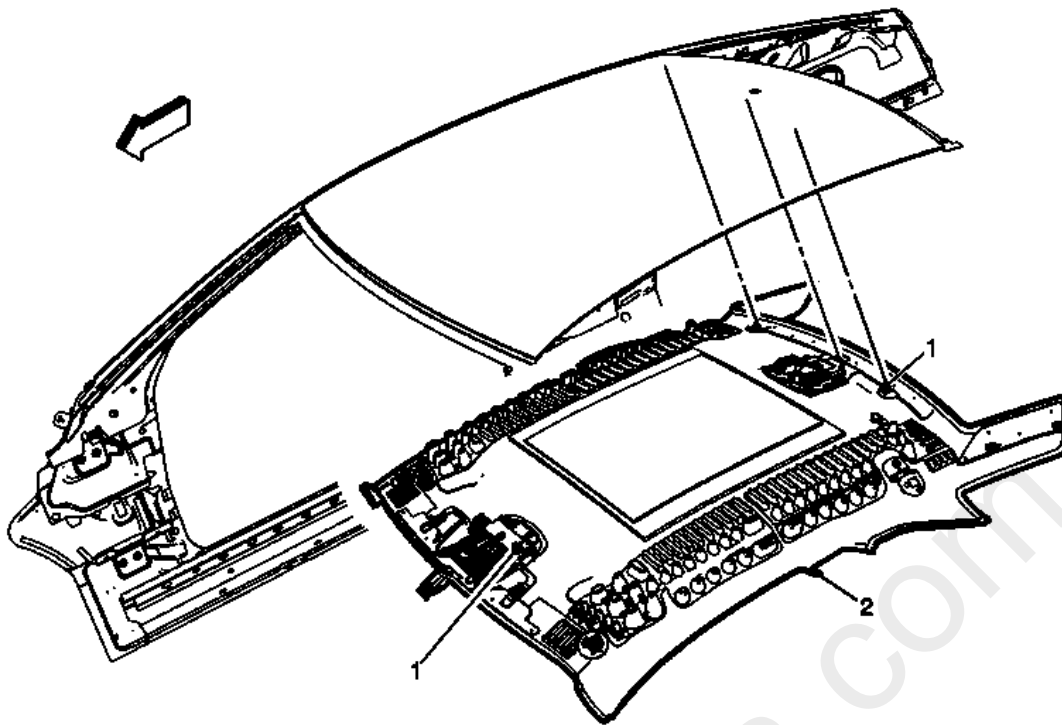


Fig. 7: Headlining Trim Panel (Coupe)
 Courtesy of GENERAL MOTORS COMPANY

Headlining Trim Panel Replacement (Coupe)

Callout	Component Name
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: 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. 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. Preliminary Procedures 1. Disable the SIR system. Refer to <u>SIR Disabling and Enabling</u> . 2. The headliner to stiffener panel glue bond needs to be detached prior to full removal of headliner. If the cardboard insulator headliner is damaged, replace it. Refer to <u>Cardboard Insulator Headliner Replacement</u>. 3. Remove the windshield side garnish moldings. Refer to <u>Windshield Side Garnish Molding</u>	

Replacement .

4. Remove the instrument panel side trim panel (left side only). Refer to **Instrument Panel Side Trim Panel Replacement .**
5. Remove the center pillar upper garnish molding. Refer to **Center Pillar Upper Garnish Molding Replacement (Coupe) .**
6. Remove the sunshade assemblies. Refer to **Sunshade Replacement .**
7. Remove the sunshade anchors. Refer to **Sunshade Anchor Replacement .**
8. Remove the roof console assembly. Refer to **Roof Console Replacement .**
9. Remove the roof rear console assembly. Refer to **Roof Rear Console Replacement .**
10. Remove the coat hook assembly. Refer to **Coat Hook Replacement (Coupe) .**
11. Remove the sunroof trim ring, if equipped. This will give the headliner added flexibility during removal.
12. Remove the rear window panel trim. Refer to **Rear Window Panel Trim Replacement (Coupe) .**
13. Move the driver and passenger seat fully forward and recline.

1	Headliner Trim Panel Retainer (Qty: 3)
2	Headliner Trim Panel Assembly Procedure 1. Disconnect the electrical connectors. 2. Headliner harness runs through a guide, unbolt guide and unclip to remove. 3. Removal and installation of the headliner must be completed through the right side door opening with the aid of an assistant to prevent kinking or damage to the headliner. Take additional care when removing a headlining trim with a sunroof cutout, trim material forward in car of the sunroof cutout is prone to creasing if not handled properly.

HEADLINING TRIM PANEL REPLACEMENT (WAGON)

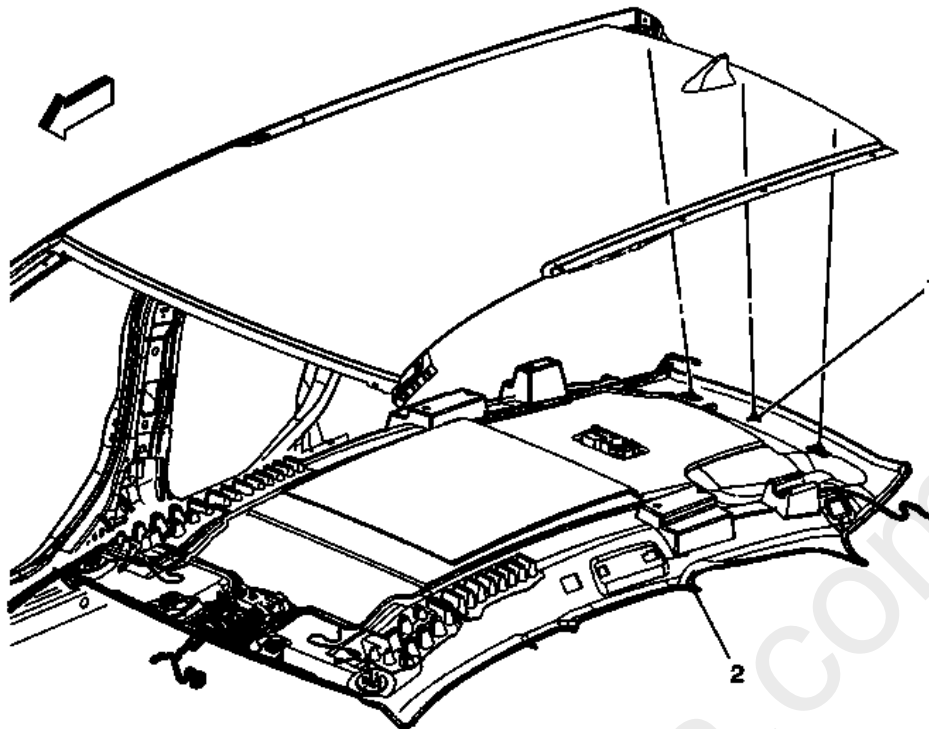


Fig. 8: Headlining Trim Panel (Wagon)
 Courtesy of GENERAL MOTORS COMPANY

Headlining Trim Panel Replacement (Wagon)

Callout	Component Name
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: 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. 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. Preliminary Procedures 1. Disable the SIR system. Refer to <u>SIR Disabling and Enabling</u> . 2. Remove the windshield side garnish moldings. Refer to <u>Windshield Side Garnish Molding Replacement</u> . 3. Remove the sunshade assemblies. Refer to <u>Sunshade Replacement</u> .	

4. Remove the sunshade anchors. Refer to **Sunshade Anchor Replacement** .
5. Remove the roof console assembly. Refer to **Roof Console Replacement** .
6. Remove the roof rail rear assist handle. Refer to **Roof Rail Rear Assist Handle Replacement (Wagon)** .
7. Remove the sunroof trim ring, if equipped. This will give the headliner added flexibility during removal.
8. Remove the rear garnish molding. Refer to **Body Side Window Rear Garnish Molding Replacement (Wagon)** .
9. Move the driver and passenger seat fully forward and recline.
10. Fold down the rear seats for easier removal.

1	Headliner Trim Panel Retainer
2	Headliner Trim Panel Assembly Procedure 1. Disconnect the electrical connectors. 2. Headliner harness runs through a guide, unbolt guide and unclip to remove. 3. Removal and installation of the headliner must be completed through the liftgate hatch opening with the aid of an assistant to prevent kinking or damage to the headliner. Take additional care when removing a headlining trim with a sunroof cutout, trim material forward in car of the sunroof cutout is prone to creasing if not handled properly. 4. Headliner has integral retainers on either side of loose push-in retainer.