

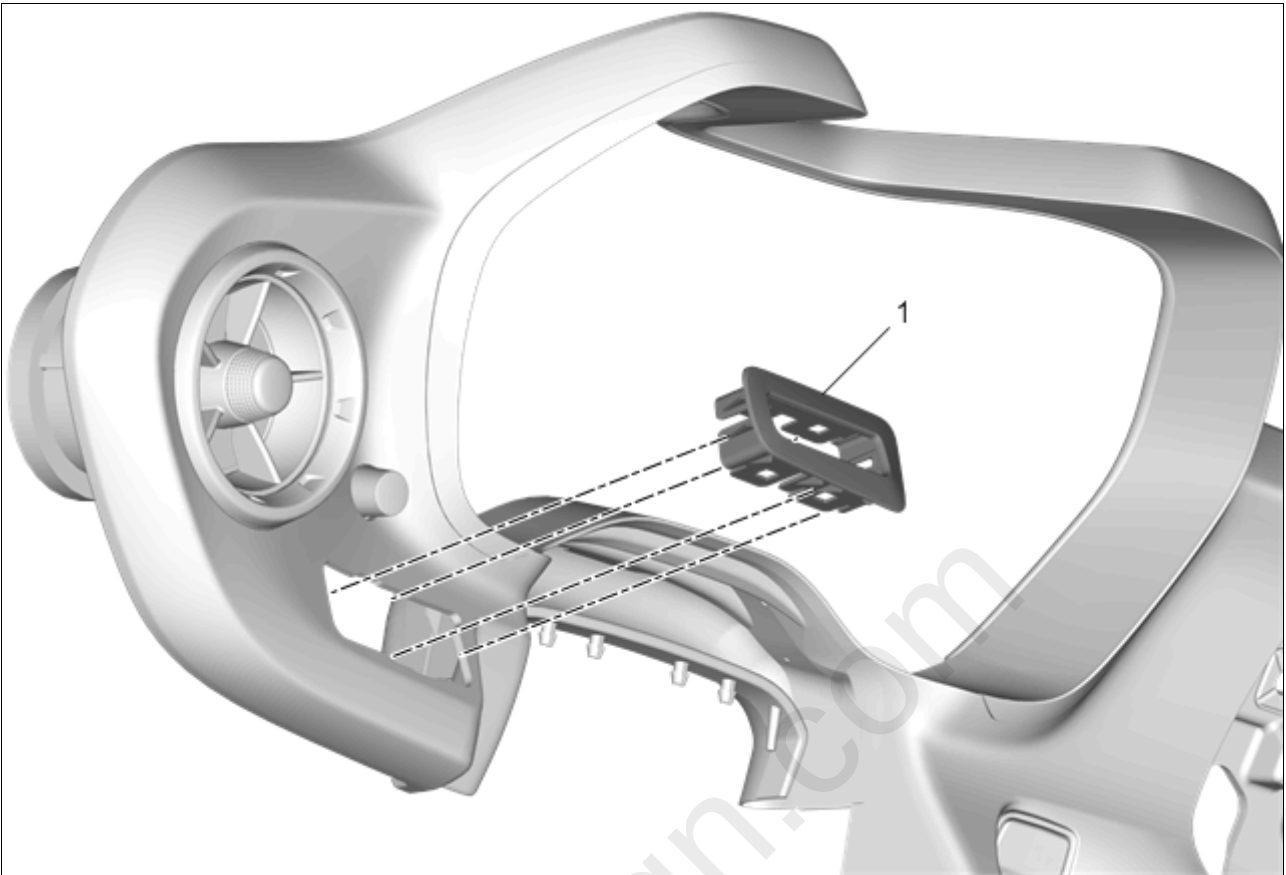
Service Manual: INSTRUMENT PANEL TRIM AND CONSOLE TRIM

SPECIFICATIONS > FASTENER SPECIFICATIONS

Application	Specification	
	Metric	English
Automatic Transmission Control Indicator Housing Bolt	2 N.m	18 lb in
Front Floor Console Armrest Bolt	2 N.m	18 lb in
Front Floor Console Bolt	9 N.m	80 lb in
Front Floor Console Bracket Bolt	9 N.m	80 lb in
Front Floor Console Trim Plate Bolt	2.5 N.m	22 lb in
Front Floor Rear Trim Plate Bolt	1.5 N.m	80 lb in
Heater and Air Conditioning Evaporator and Blower Module Bolt	9 N.m	80 lb in
Instrument Panel Airbag Bolt	9 N.m	80 lb in
Instrument Panel Bolt	2.5 N.m	22 lb in
Instrument Panel Cluster Trim Plate Bolt	2.5 N.m	22 lb in
Instrument Panel Lower Trim Panel Bolt	2.5 N.m	22 lb in
Instrument Panel Tie Bar Bolt	22 N.m	16 lb ft
Multiuse Module Upper Tray Bolt	2.5 N.m	22 lb in

REPAIR INSTRUCTIONS > INSTRUMENT PANEL SWITCH TRIM PLATE REPLACEMENT (HEAD-UP DISPLAY SWITCH)

Fig 1: Instrument Panel Switch Trim Plate (Head-Up Display Switch)

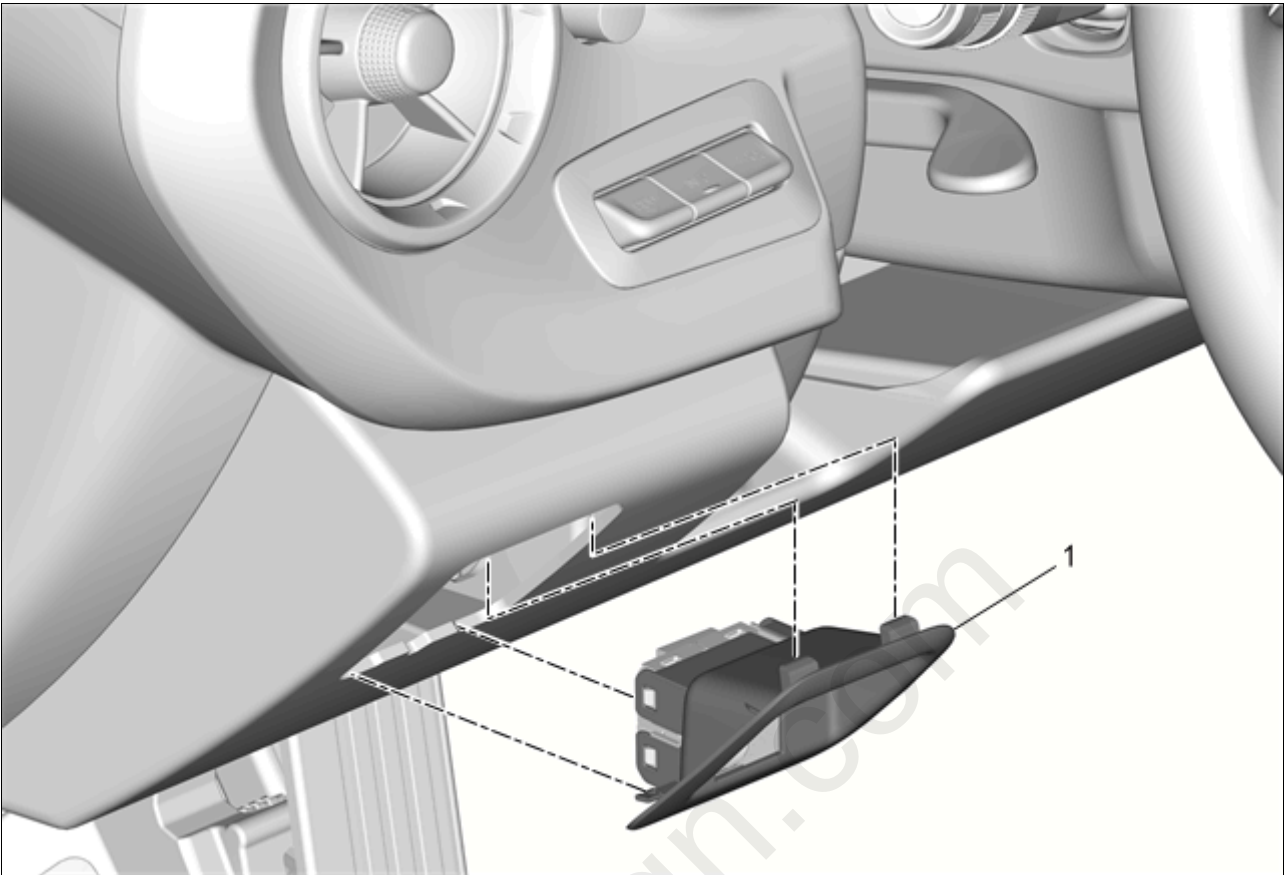


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Head Up Display Switch Replacement	
1	Instrument Panel Switch Trim Plate Procedure Release the retaining tabs.

**REPAIR INSTRUCTIONS > INSTRUMENT PANEL SWITCH TRIM PLATE
REPLACEMENT (HEADLAMP LEVELING SWITCH)**

Fig 1: Instrument Panel Switch Trim Plate (Headlamp Leveling Switch)

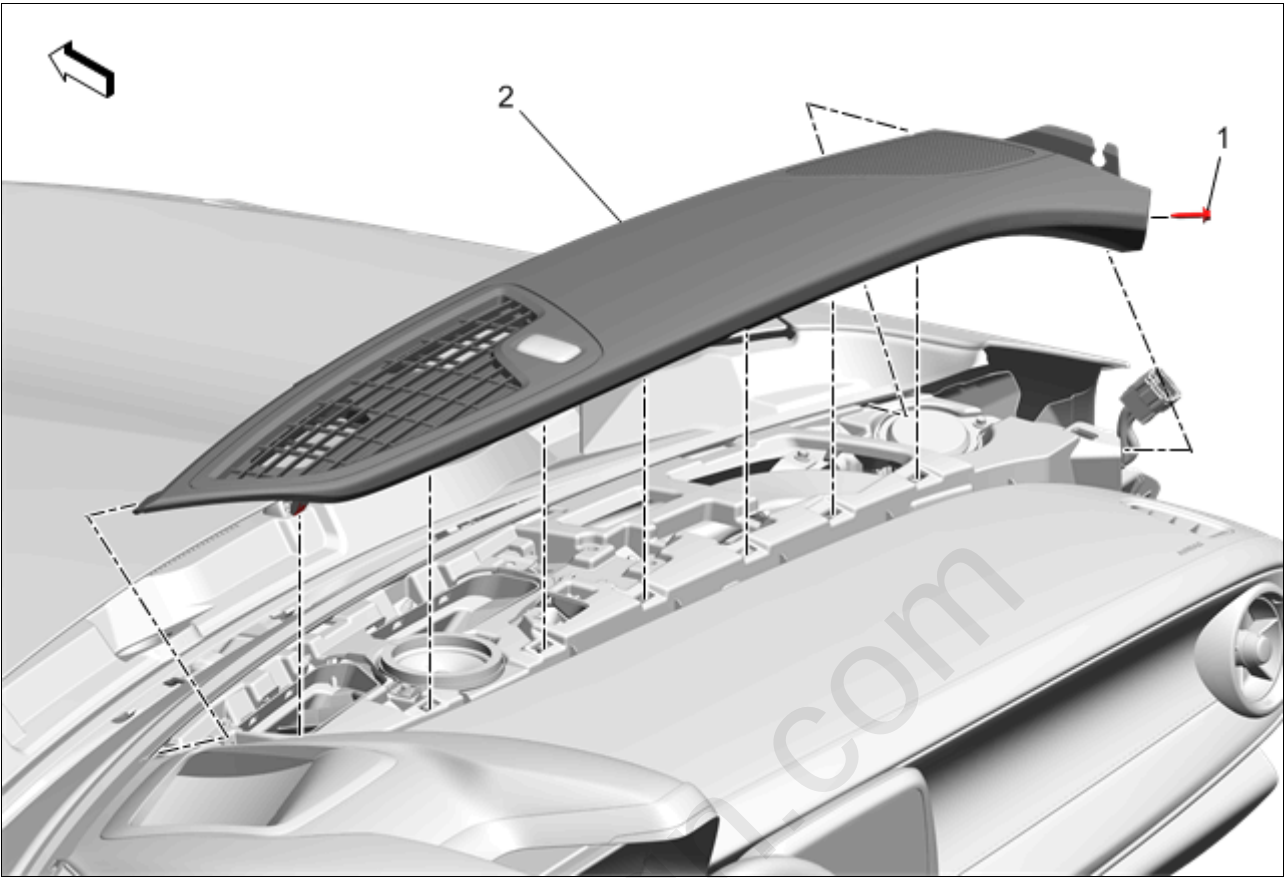


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Switch Trim Plate Procedure 1. Use a flat bladed plastic trim tool. 2. Disconnect the electrical connector. 3. Transfer components as necessary.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL EXTENSION REPLACEMENT

Fig 1: Instrument Panel Extension



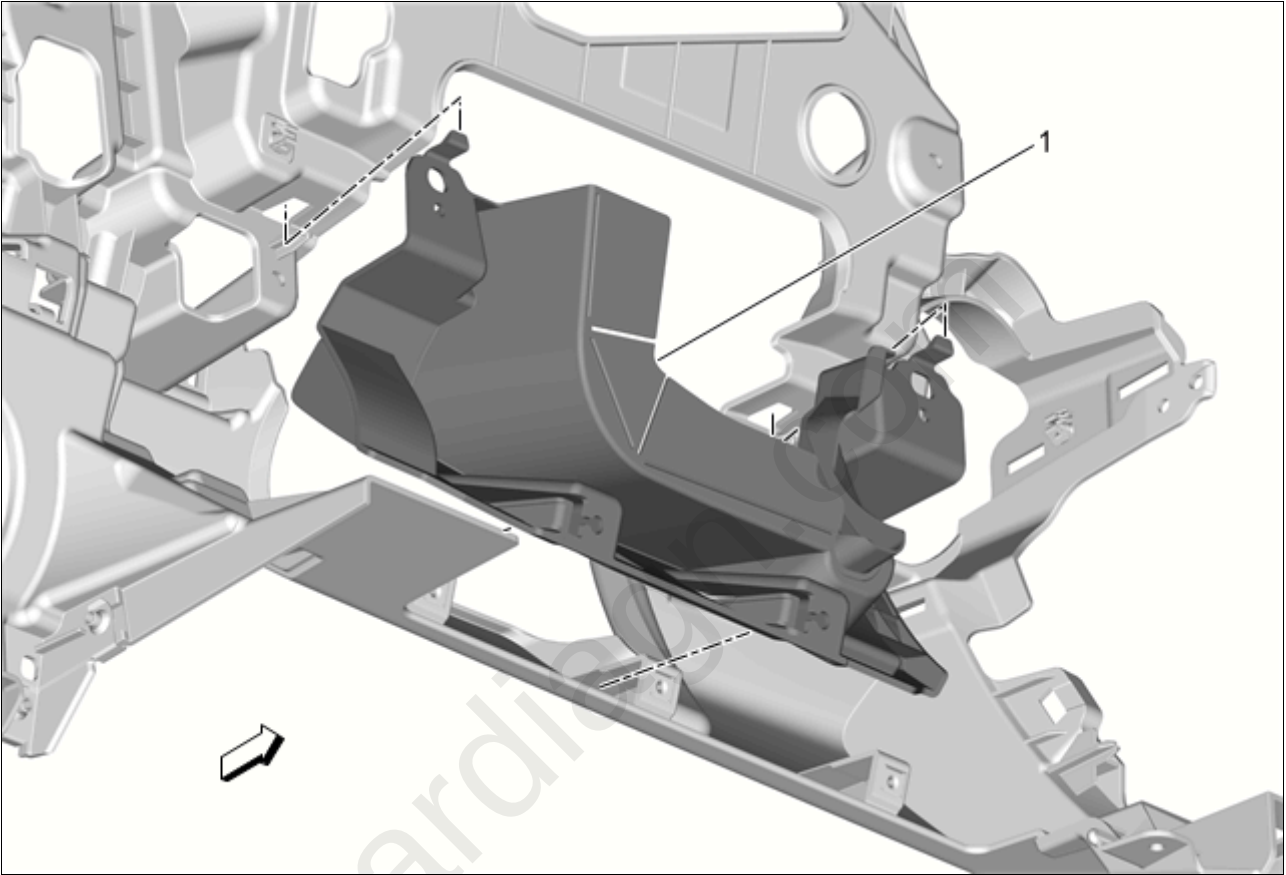
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Windshield Garnish Molding Replacement - Right Side (Coupe) Windshield Garnish Molding Replacement - Right Side (Convertible)	
1	Instrument Panel Bolt <i>CAUTION:</i> <i>Refer to Fastener Caution .</i> Tighten 2.5 N.m (22 lb in)
2	Instrument Panel Extension Procedure 1. Use a flat bladed plastic trim tool. 2. Disconnect the electrical connector.

3. Transfer components as necessary.

**REPAIR INSTRUCTIONS > INSTRUMENT PANEL KNEE BOLSTER REPLACEMENT
(DRIVER KNEE BOLSTER REINFORCEMENT)**

Fig 1: Instrument Panel Knee Bolster (Driver Knee Bolster Reinforcement)

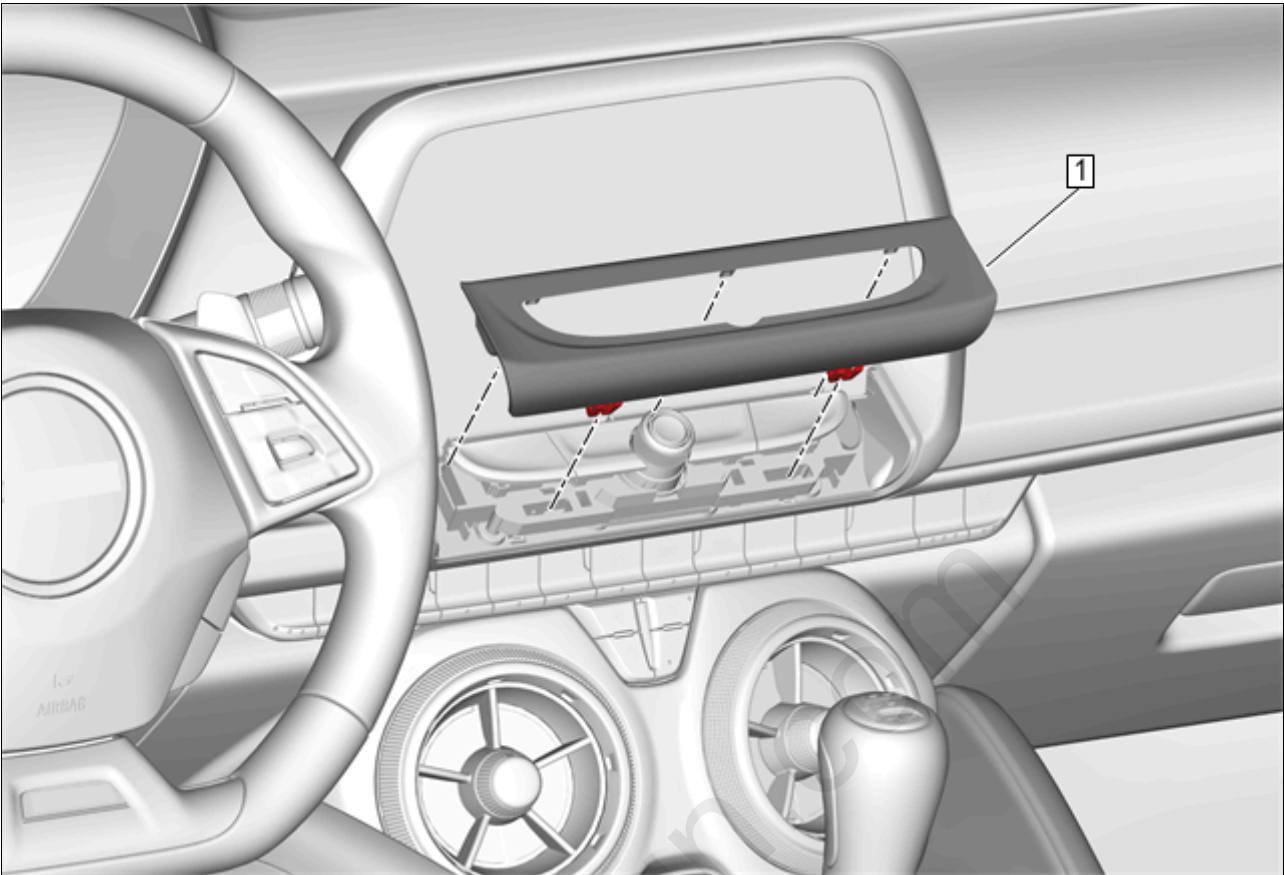


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Instrument Panel Lower Trim Panel Replacement (with UV6) Instrument Panel Lower Trim Panel Replacement (without UV6)	
1	Instrument Panel Knee Bolster Procedure Release the plastic retaining tabs.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL ACCESSORY CENTER TRIM PLATE REPLACEMENT

Fig 1: Instrument Panel Accessory Center Trim Plate

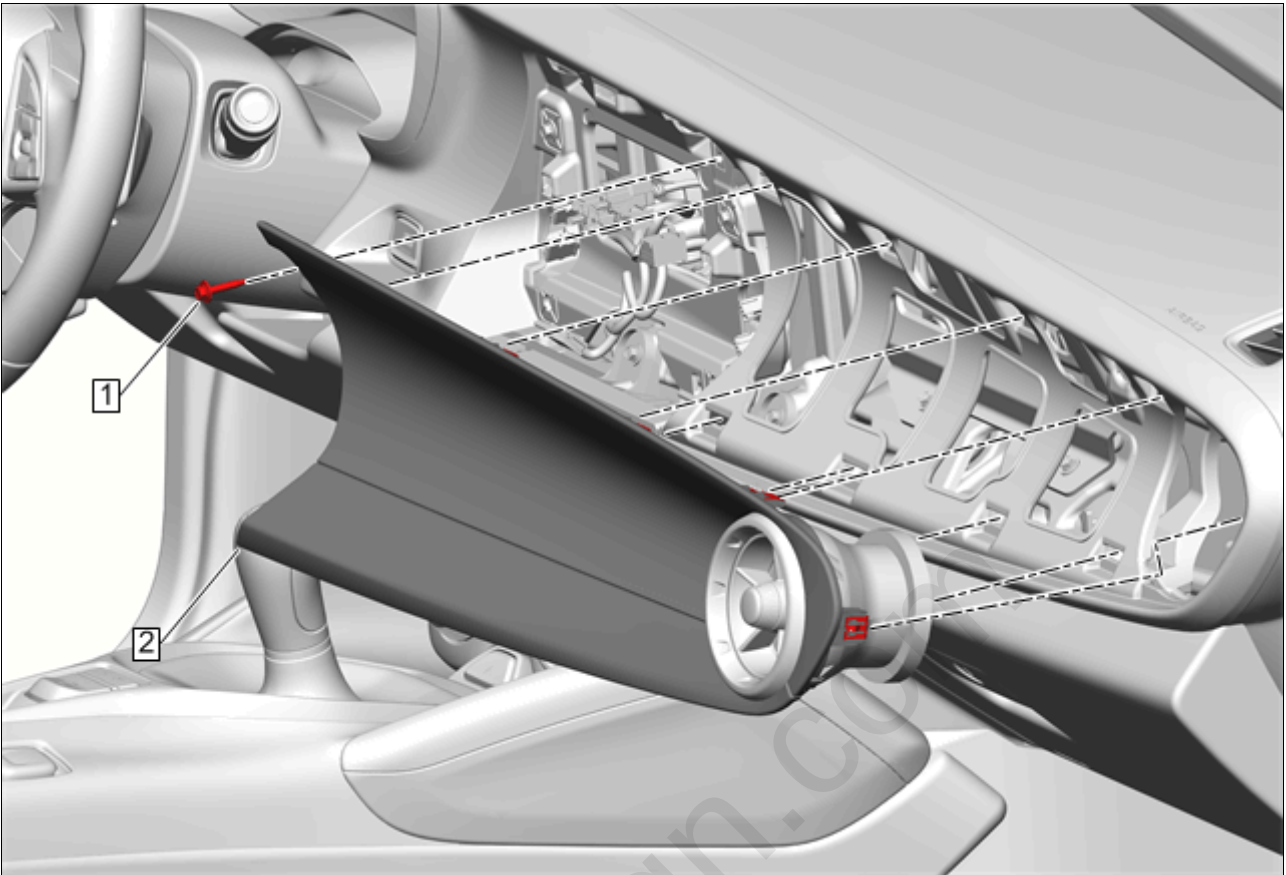


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Accessory Center Trim Plate Procedure Use a flat bladed plastic trim tool.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL CENTER TRIM PAD REPLACEMENT

Fig 1: Instrument Panel Center Trim Pad

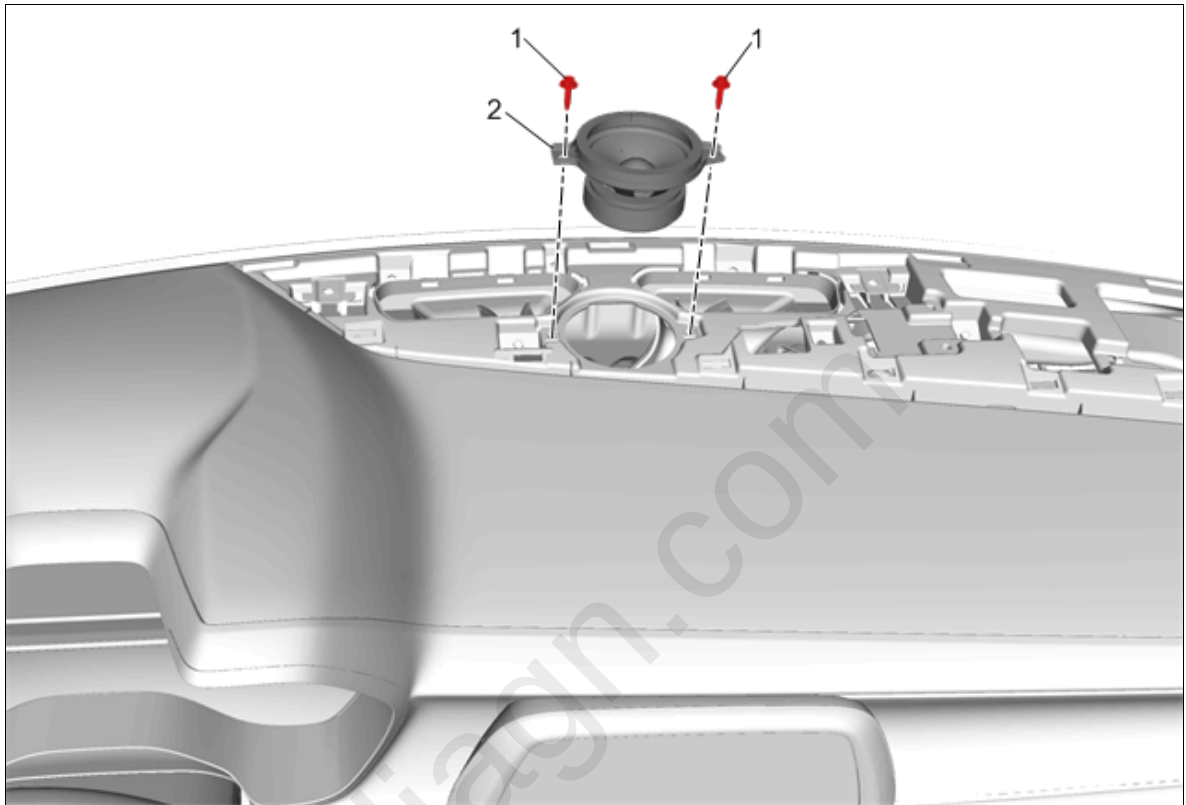


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Radio Control Assembly Replacement	
1	Instrument Panel Bolt <i>CAUTION:</i> <i>Refer to Fastener Caution .</i> Tighten 2.5 N.m (22 lb in)
2	Instrument Panel Center Trim Pad Procedure 1. Use a flat bladed plastic trim tool. 2. Transfer components as necessary.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL UPPER TRIM PANEL COVER REPLACEMENT > REMOVAL PROCEDURE

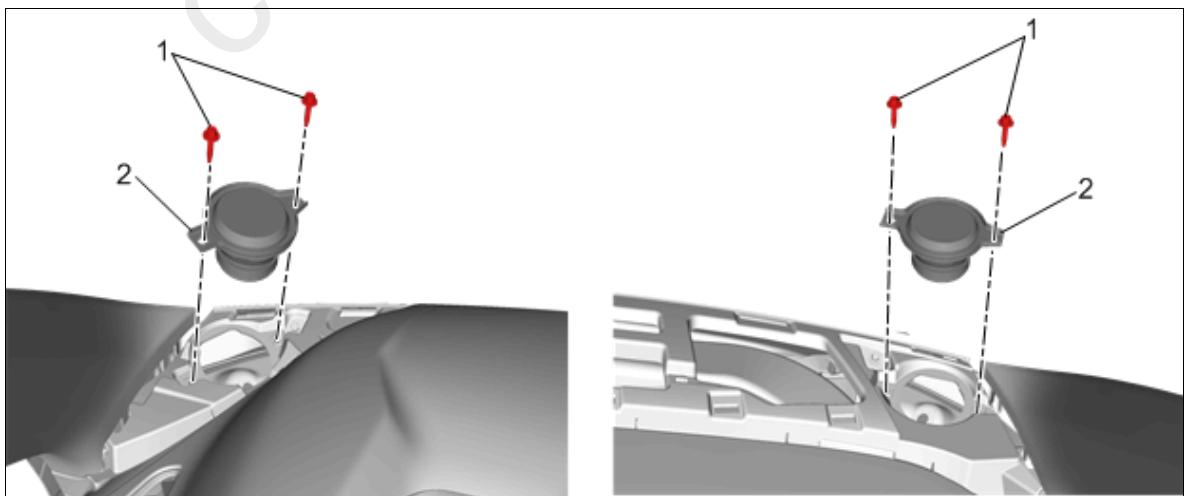
Fig 1: Radio Front Center Speaker



Courtesy of GENERAL MOTORS COMPANY

1. Remove Radio Front Center Speaker Replacement (2).

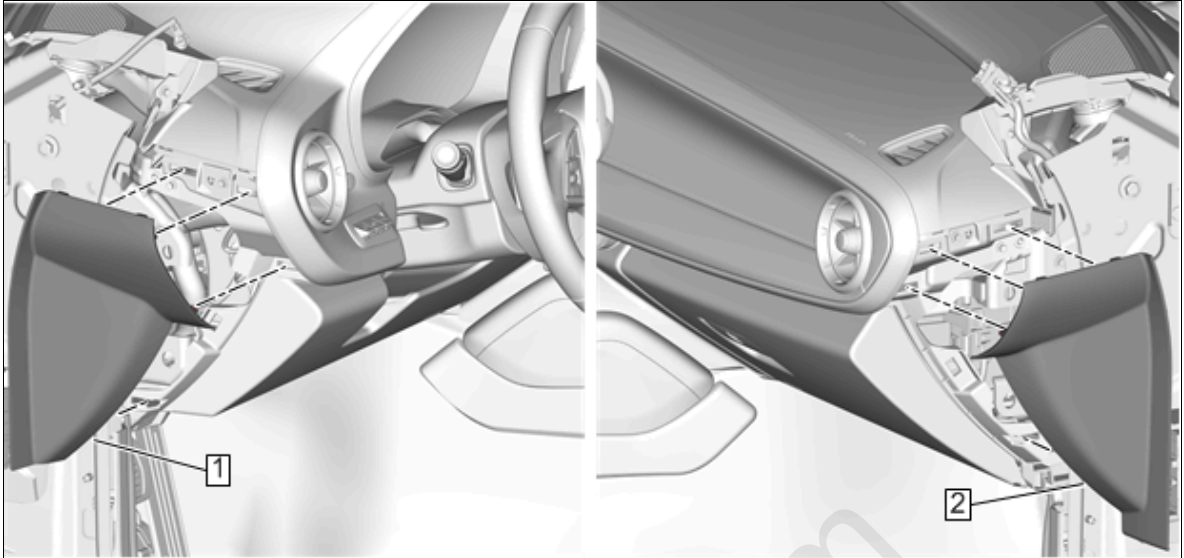
Fig 2: Radio Front Speaker



Courtesy of GENERAL MOTORS COMPANY

2. Remove Radio Front Speaker Replacement (2).

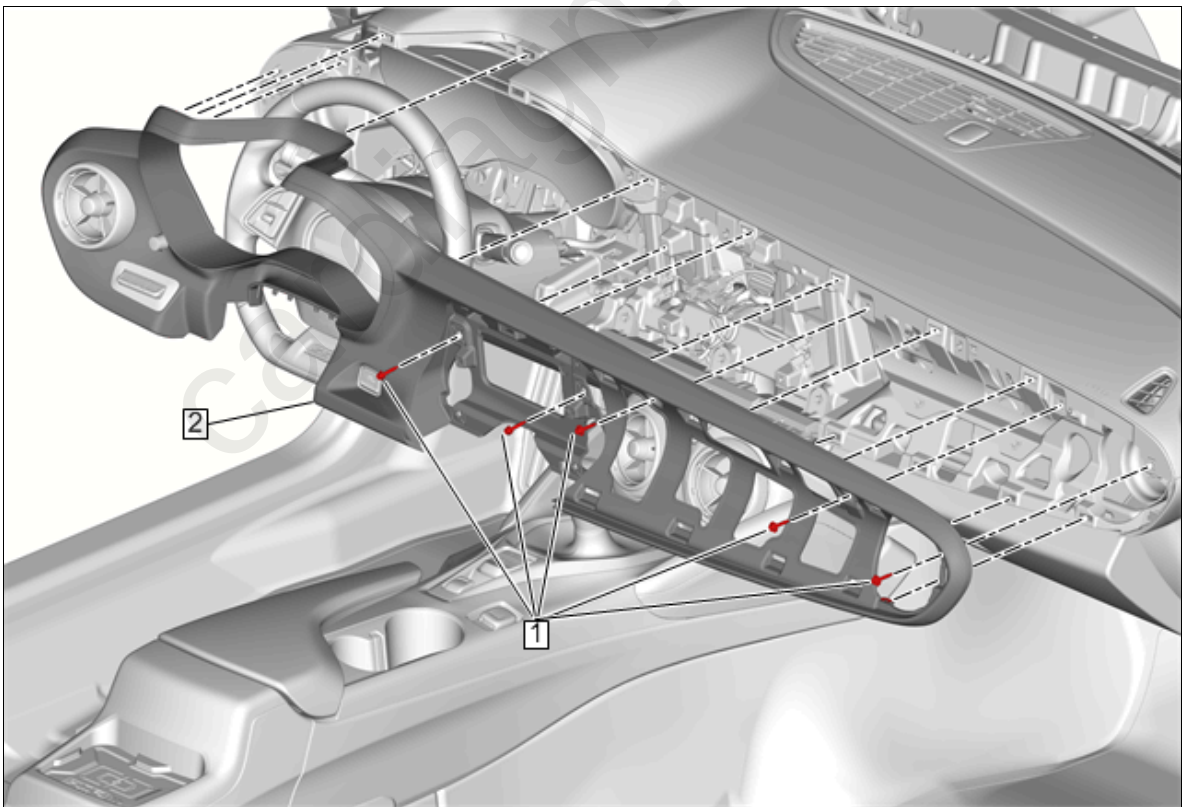
Fig 3: Instrument Panel Outer Trim Cover



Courtesy of GENERAL MOTORS COMPANY

3. Remove Instrument Panel Outer Trim Cover Replacement (1).

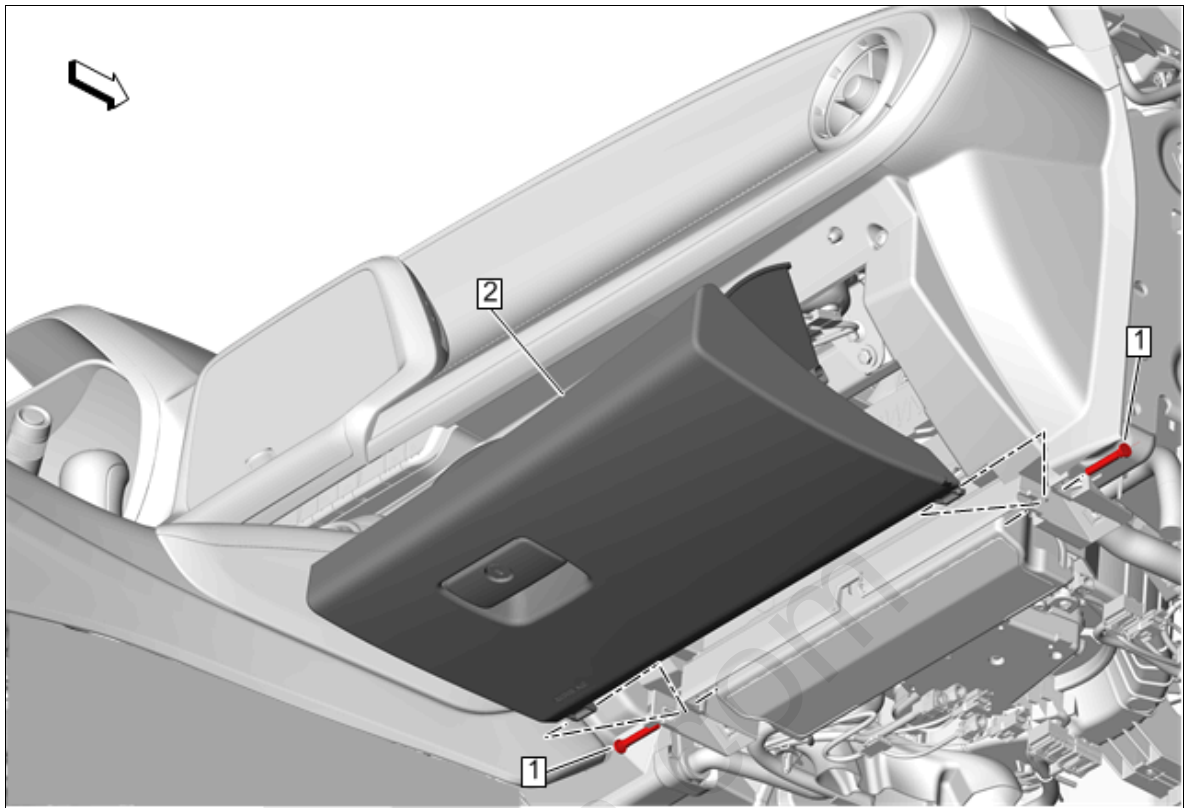
Fig 4: Instrument Panel Cluster Trim Plate



Courtesy of GENERAL MOTORS COMPANY

4. Remove Instrument Panel Cluster Trim Plate Replacement (2).

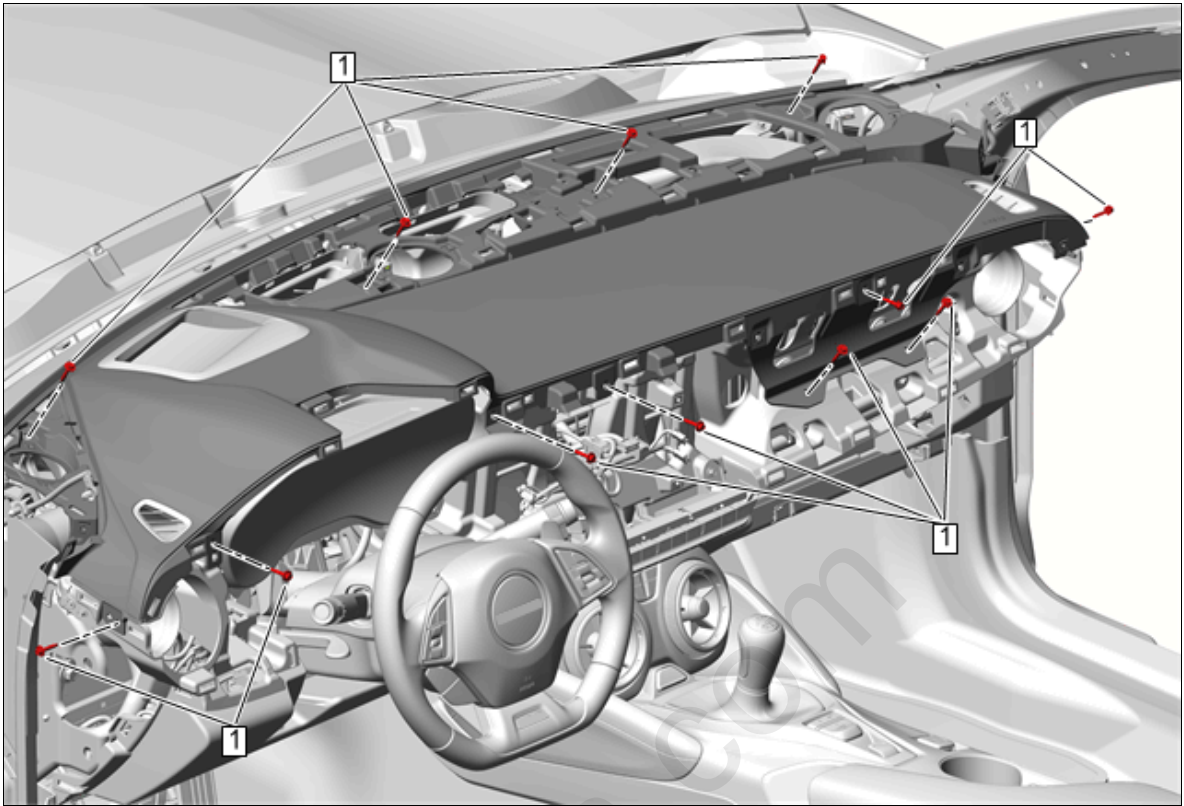
Fig 5: Instrument Panel Compartment



Courtesy of GENERAL MOTORS COMPANY

5. Remove Instrument Panel Compartment Replacement (2).

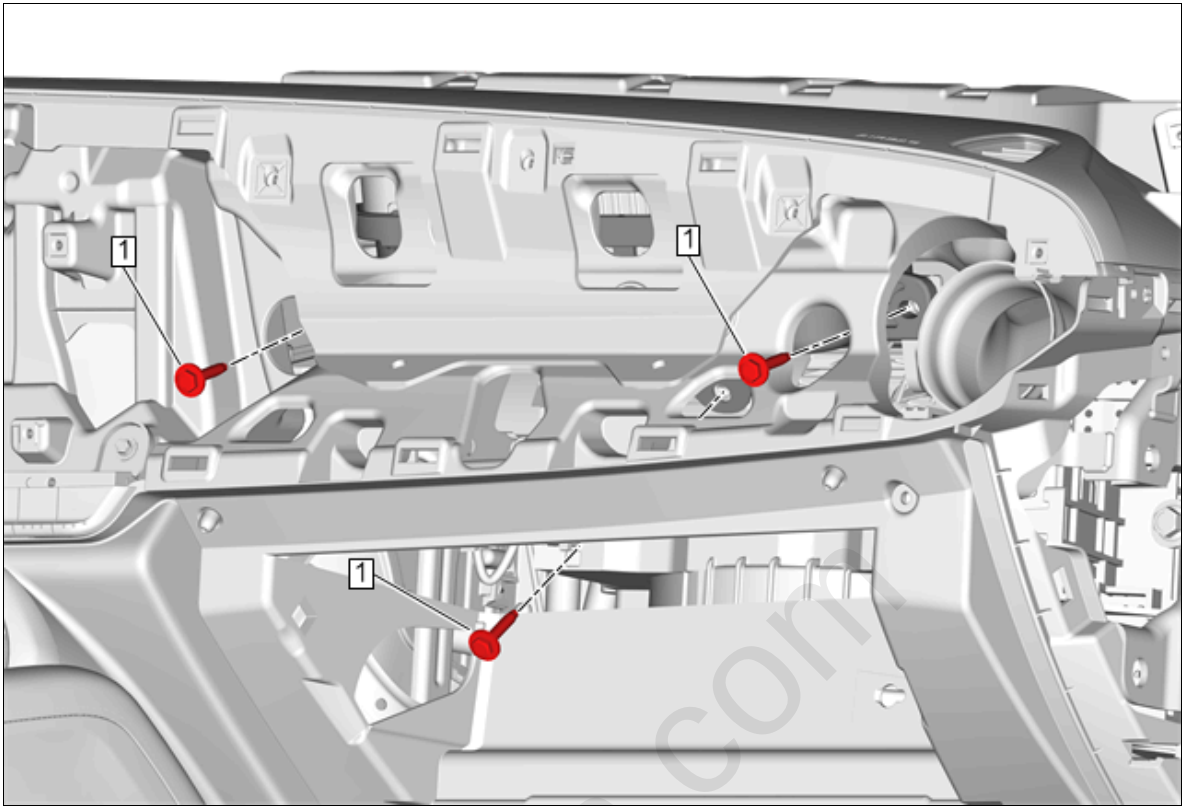
Fig 6: Instrument Panel Bolt



Courtesy of GENERAL MOTORS COMPANY

6. Remove Instrument Panel Bolt (1) (Qty: 12)

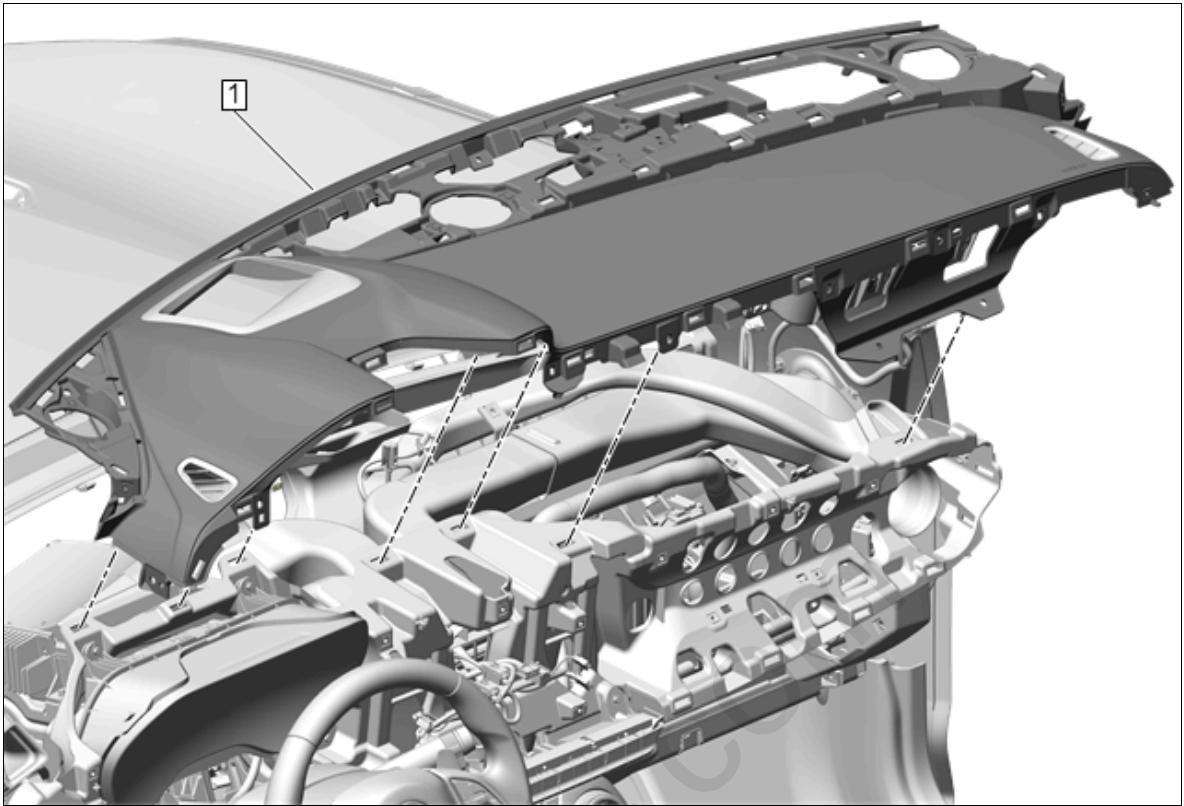
Fig 7: Instrument Panel Airbag Bolt



Courtesy of GENERAL MOTORS COMPANY

7. Remove Instrument Panel Airbag Bolt (1) (Qty: 3)
8. Disconnect the electrical connector.

Fig 8: Instrument Panel Upper Trim Panel Cover

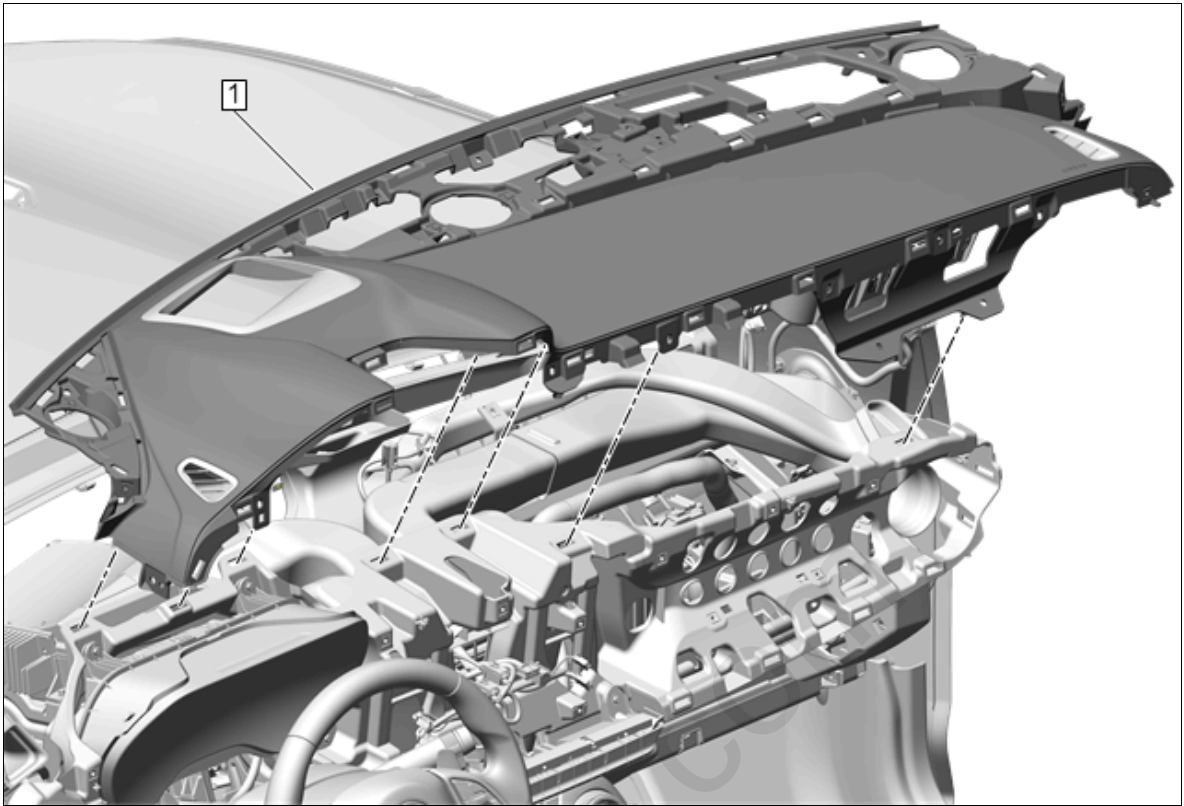


Courtesy of GENERAL MOTORS COMPANY

9. Remove Instrument Panel Upper Trim Panel Cover (1).
10. Disconnect and reposition harness as necessary.
11. With the aid of an assistant, remove the instrument panel upper trim panel cover from the vehicle (1).
12. Transfer components as necessary.

**REPAIR INSTRUCTIONS > INSTRUMENT PANEL UPPER TRIM PANEL COVER
REPLACEMENT > INSTALLATION PROCEDURE**

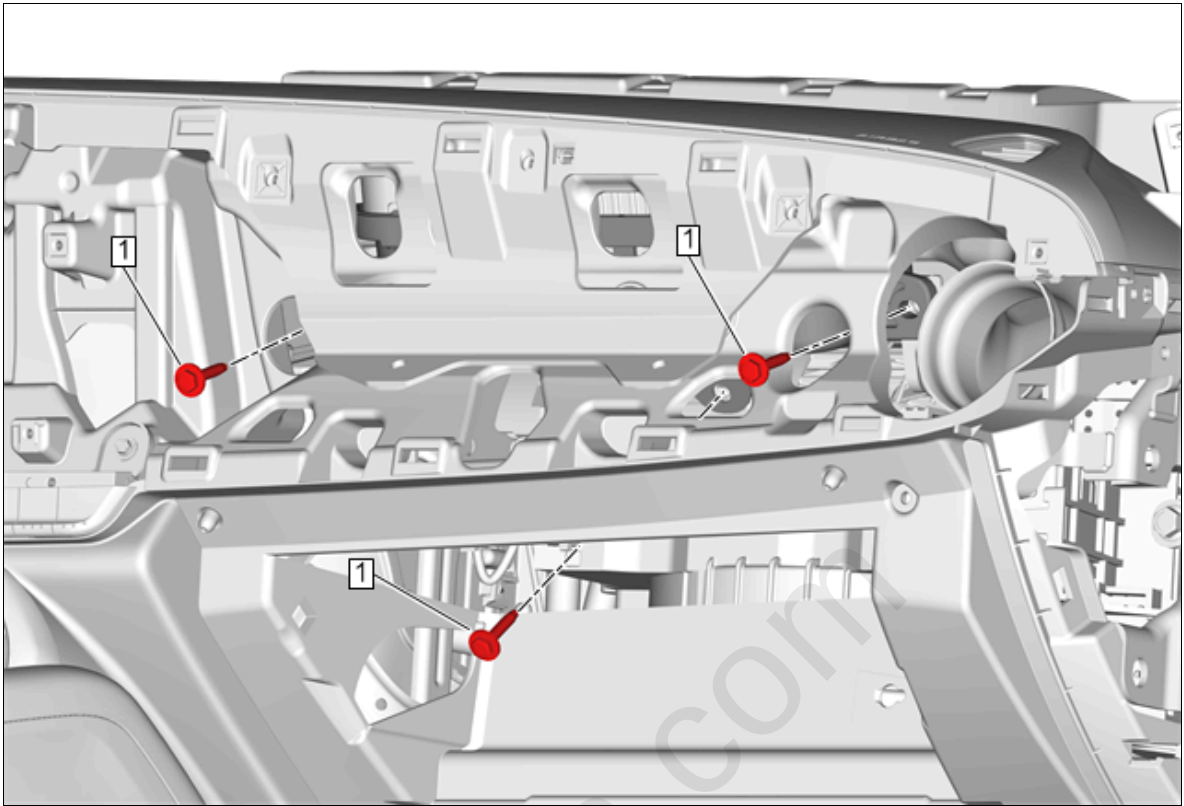
Fig 1: Instrument Panel Upper Trim Panel Cover



Courtesy of GENERAL MOTORS COMPANY

1. With the aid of an assistant, position the instrument panel upper trim panel cover into the vehicle (1).

Fig 2: Instrument Panel Airbag Bolt



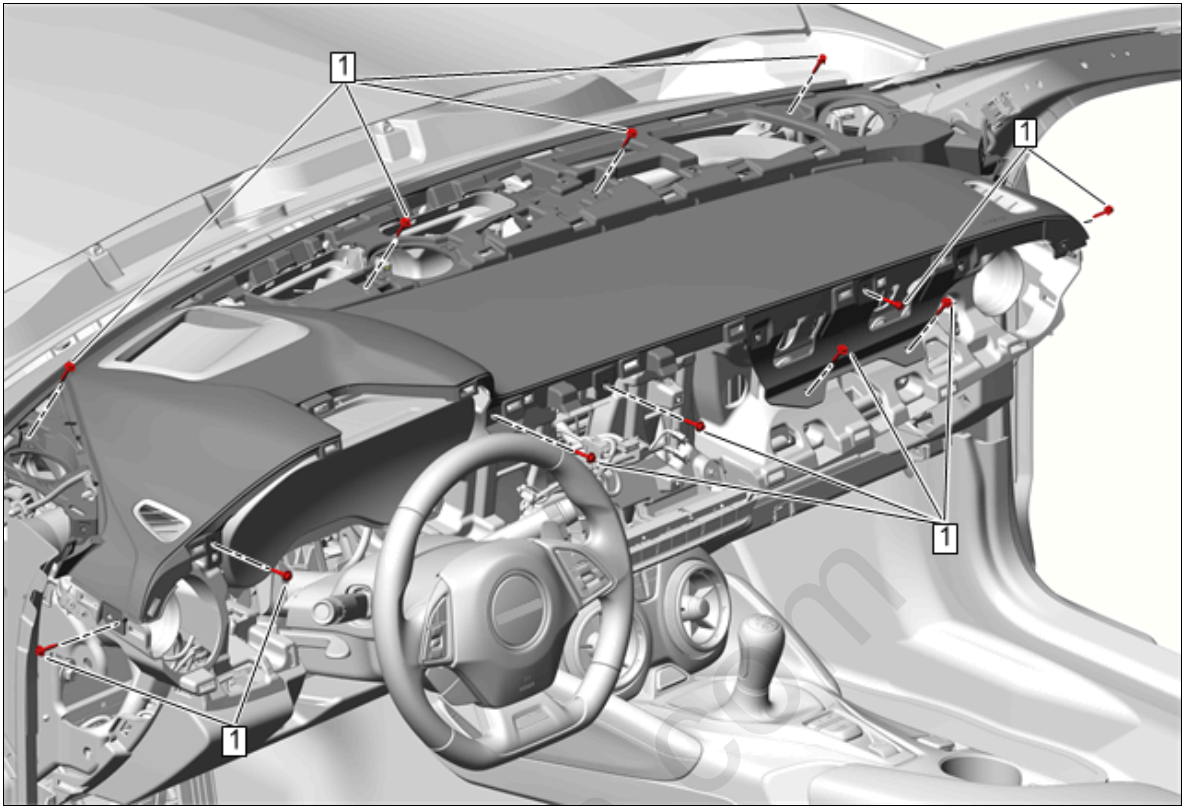
Courtesy of GENERAL MOTORS COMPANY

 **CAUTION:**

Refer to Fastener Caution .

2. Install Instrument Panel Airbag Bolt (1) (Qty: 3) and tighten to 9 N.m (80 lb in)
3. Connect the electrical connector.

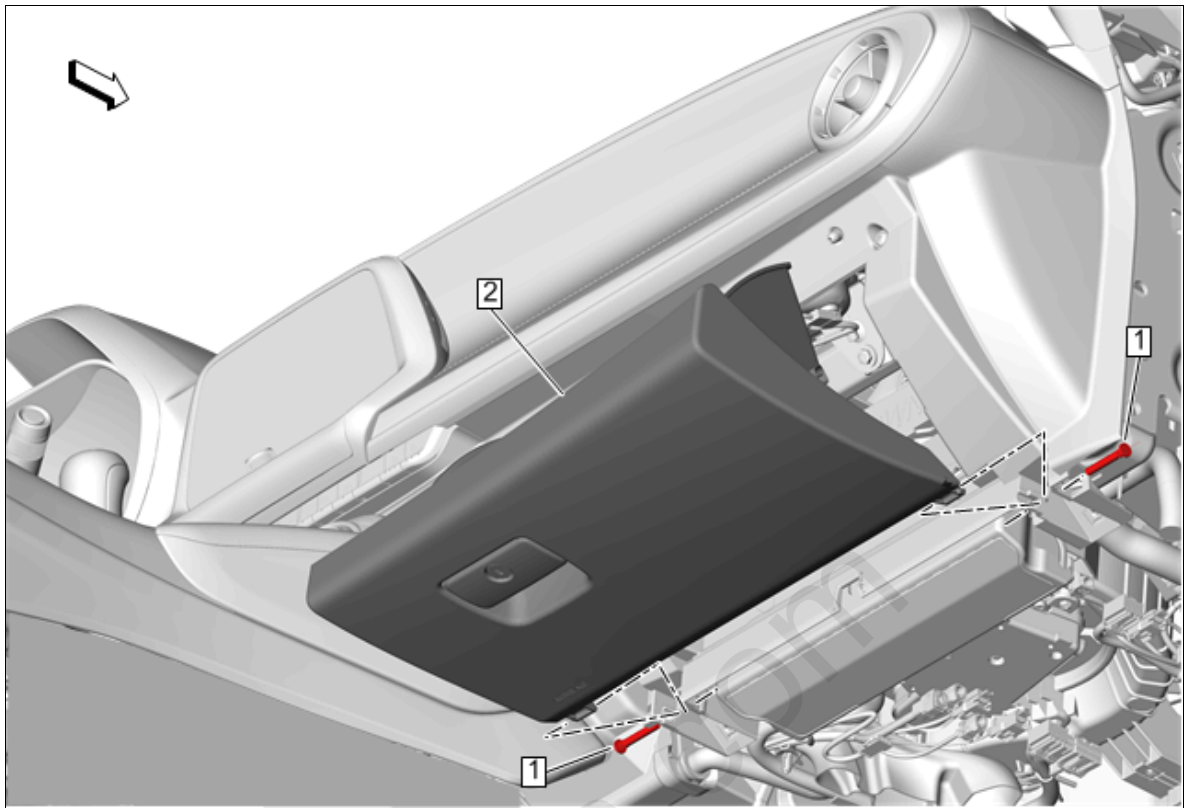
Fig 3: Instrument Panel Bolt



Courtesy of GENERAL MOTORS COMPANY

4. Install Instrument Panel Bolt (1) (Qty: 12) and tighten to 2.5 N.m (22 lb in)

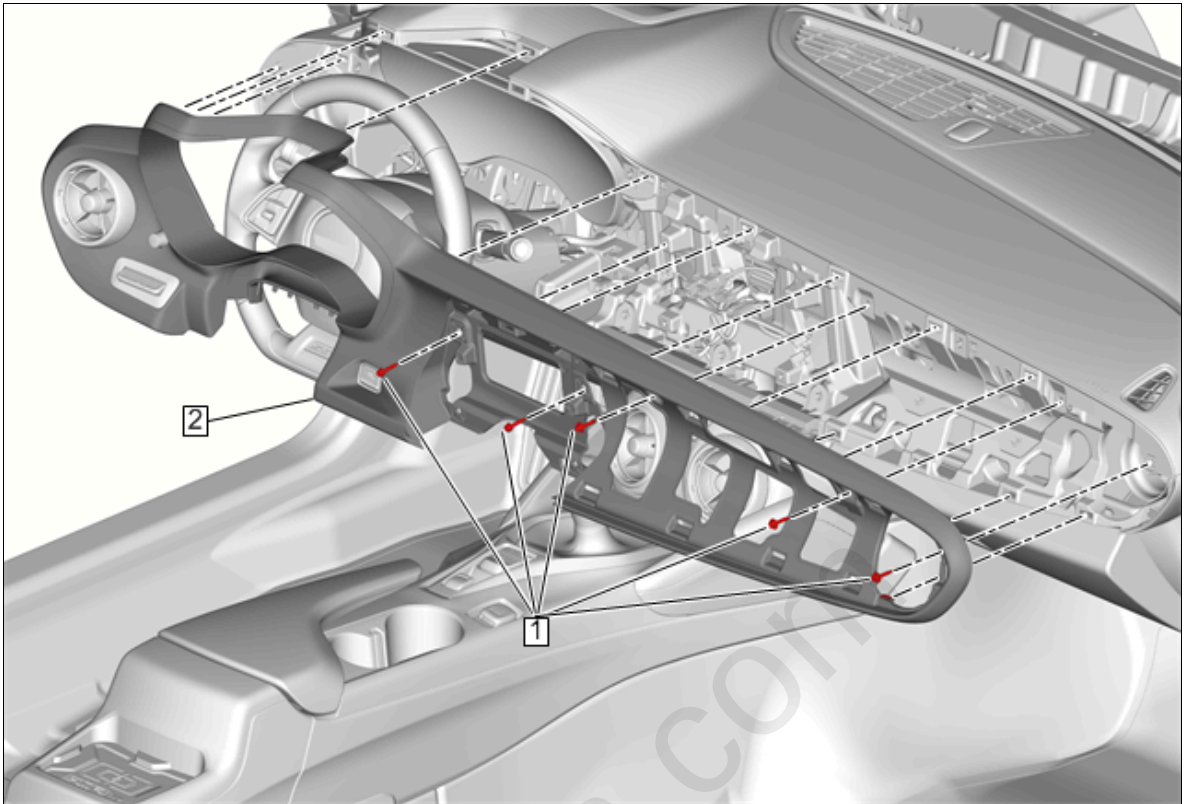
Fig 4: Instrument Panel Compartment



Courtesy of GENERAL MOTORS COMPANY

5. Install Instrument Panel Compartment Replacement (2).

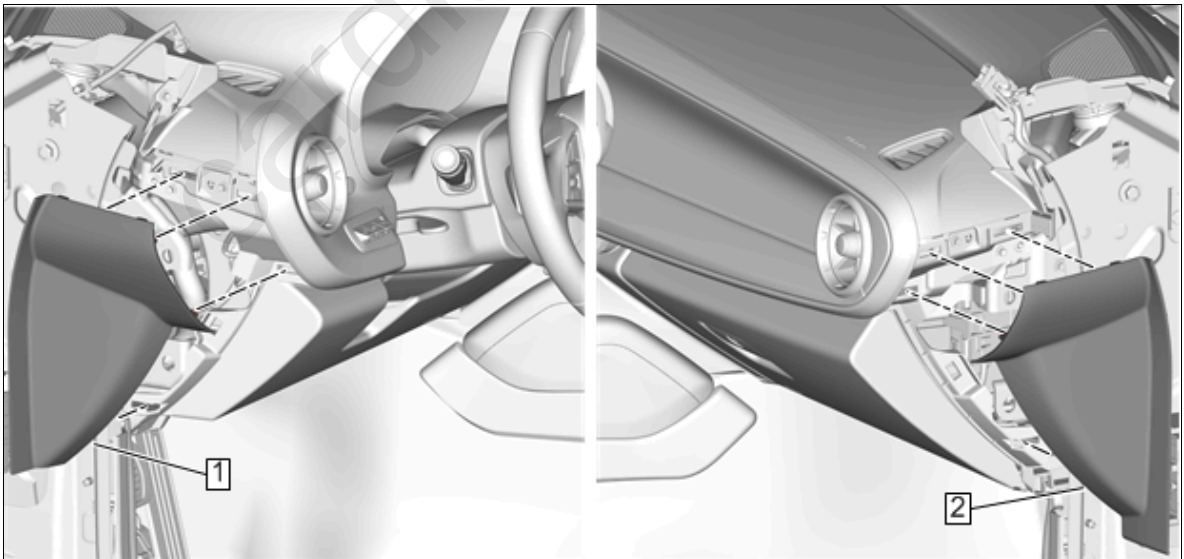
Fig 5: Instrument Panel Cluster Trim Plate



Courtesy of GENERAL MOTORS COMPANY

6. Install Instrument Panel Cluster Trim Plate Replacement (2).

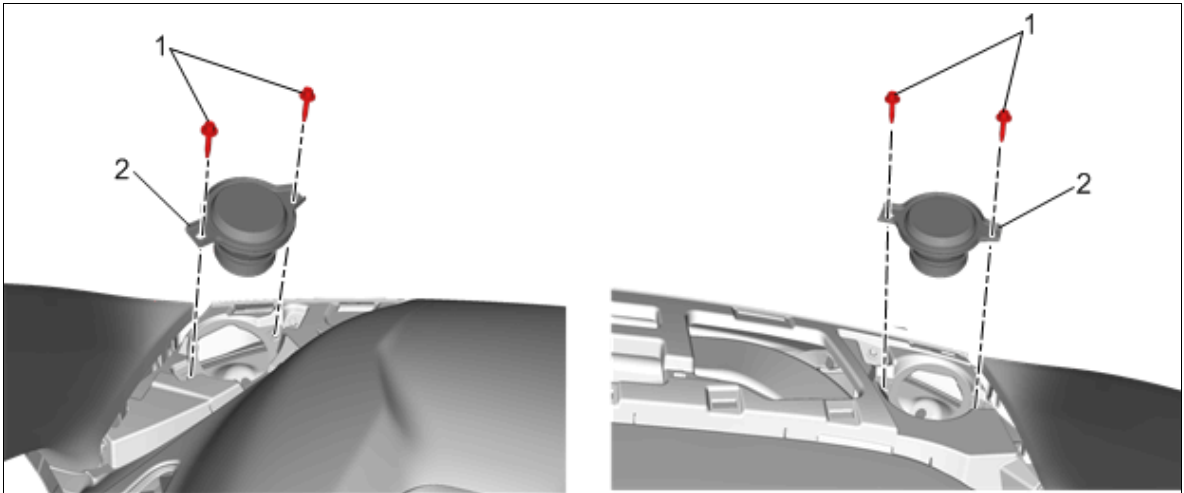
Fig 6: Instrument Panel Outer Trim Cover



Courtesy of GENERAL MOTORS COMPANY

7. Install Instrument Panel Outer Trim Cover Replacement (1).

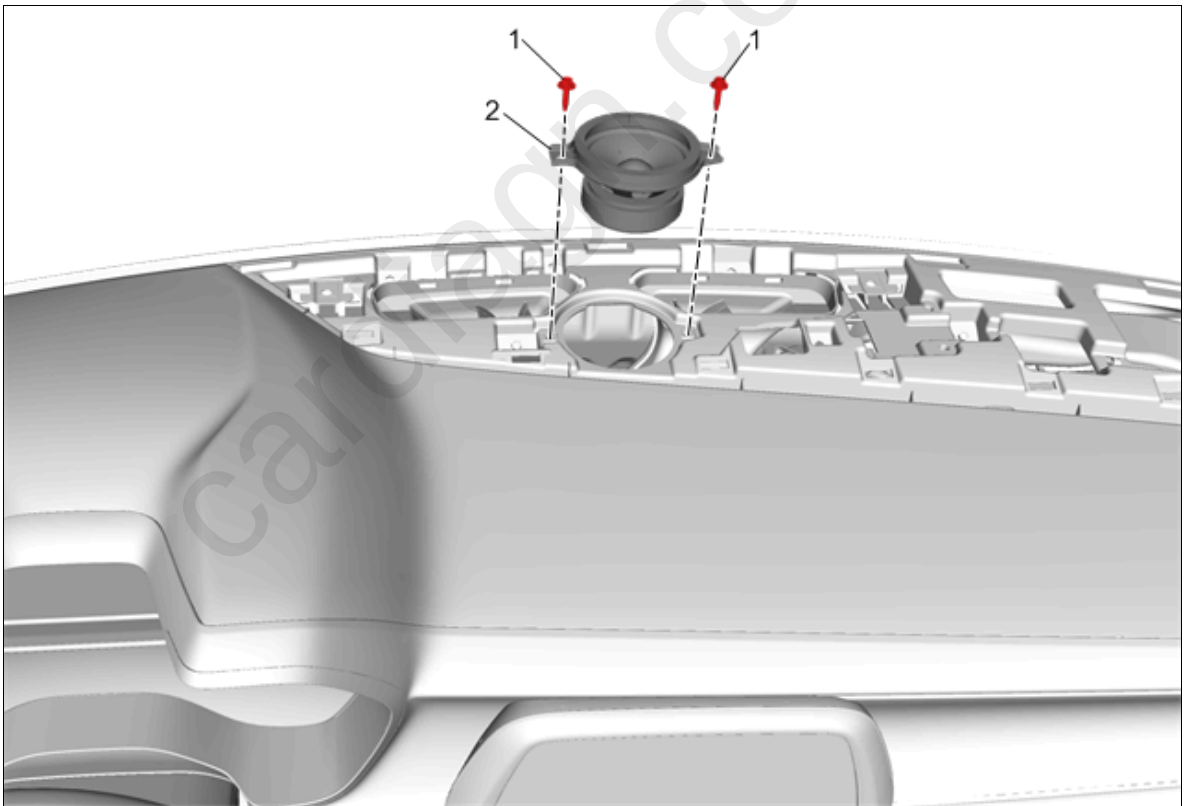
Fig 7: Radio Front Speaker



Courtesy of GENERAL MOTORS COMPANY

8. Install Radio Front Speaker Replacement (2).

Fig 8: Radio Front Center Speaker

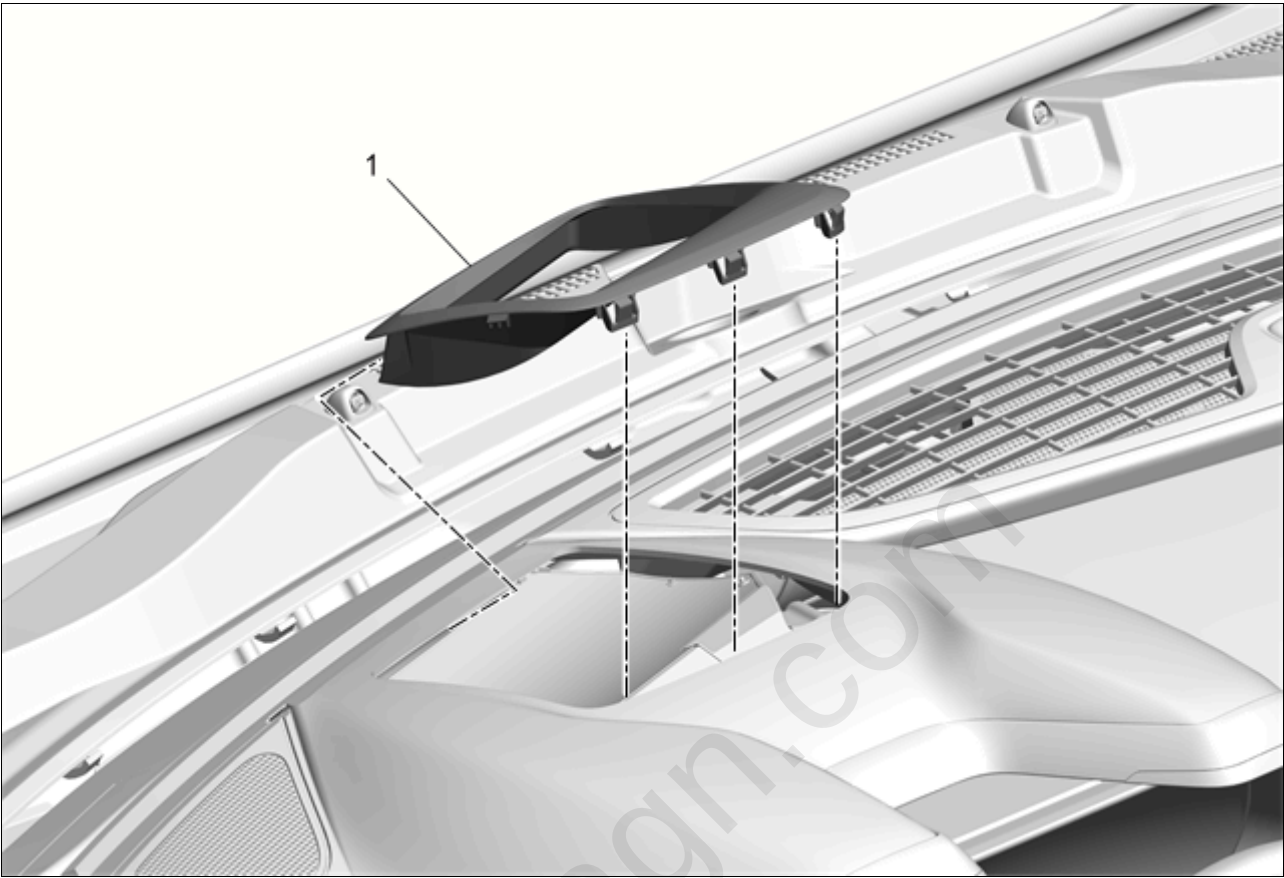


Courtesy of GENERAL MOTORS COMPANY

9. Install Radio Front Center Speaker Replacement (2).

REPLACEMENT

Fig 1: Instrument Panel Accessory Bezel

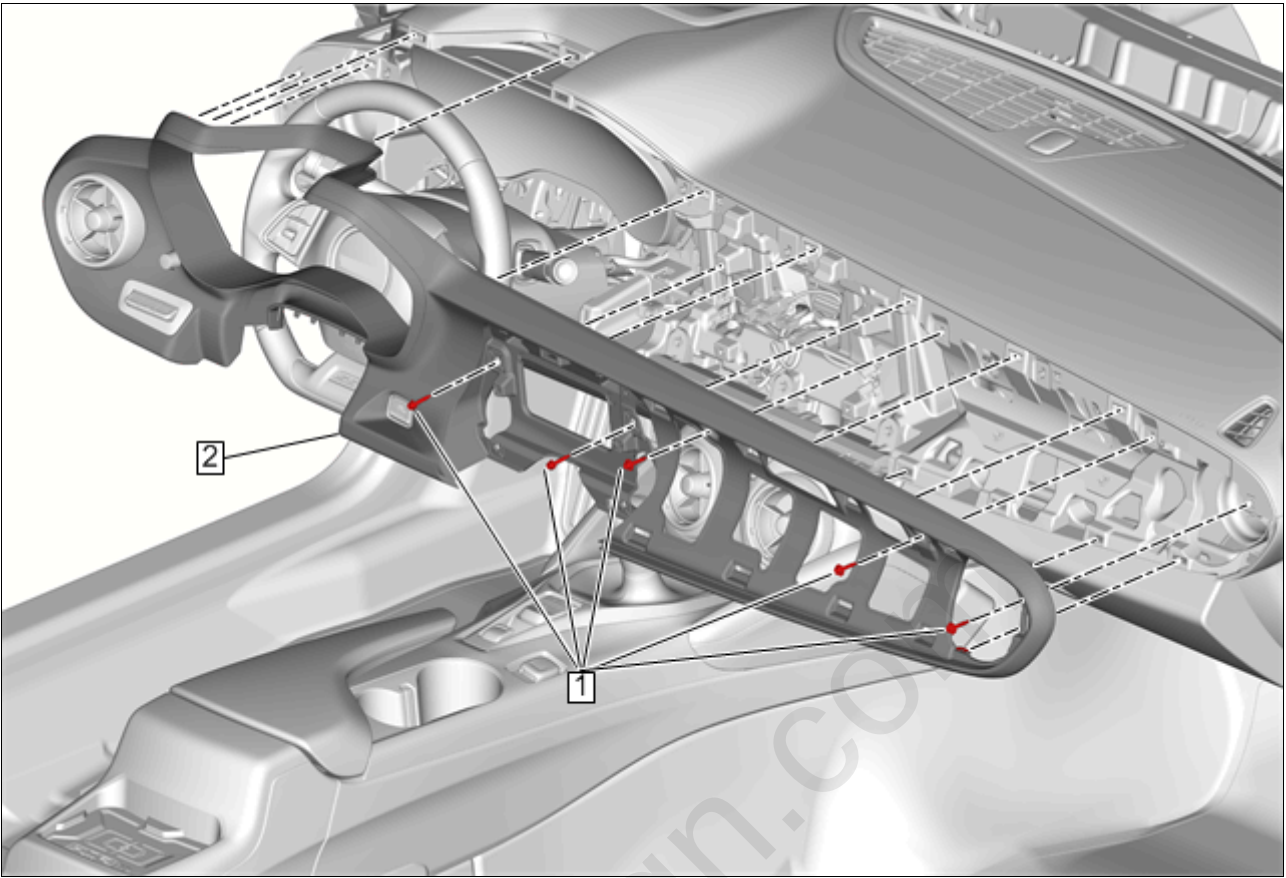


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Accessory Bezel Procedure Use a flat bladed plastic trim tool.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL CLUSTER TRIM PLATE
REPLACEMENT

Fig 1: Instrument Panel Cluster Trim Plate



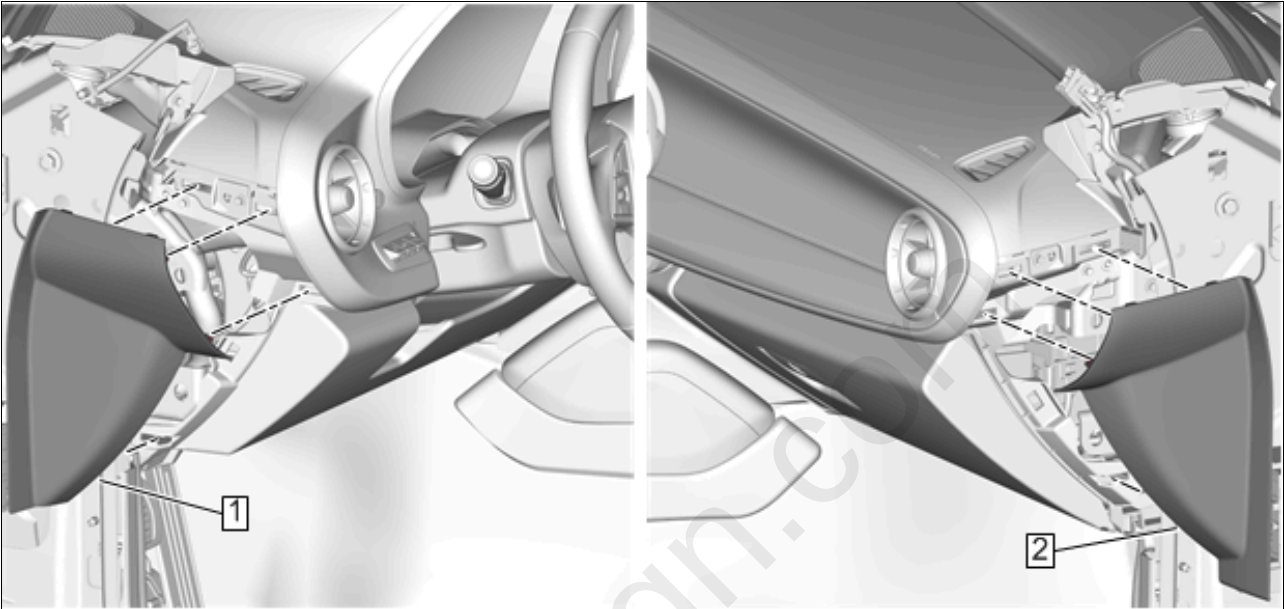
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Instrument Panel Center Trim Pad Replacement	
1	Instrument Panel Cluster Trim Plate Bolt (Qty: 5) <i>CAUTION:</i> <i>Refer to Fastener Caution .</i> Tighten 2.5 N.m (22 lb in)
2	Instrument Panel Cluster Trim Plate Procedure 1. Use a flat bladed plastic trim tool. 2. Connect the electrical connectors.

3. Transfer components as necessary.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL OUTER TRIM COVER
REPLACEMENT

Fig 1: Instrument Panel Outer Trim Cover

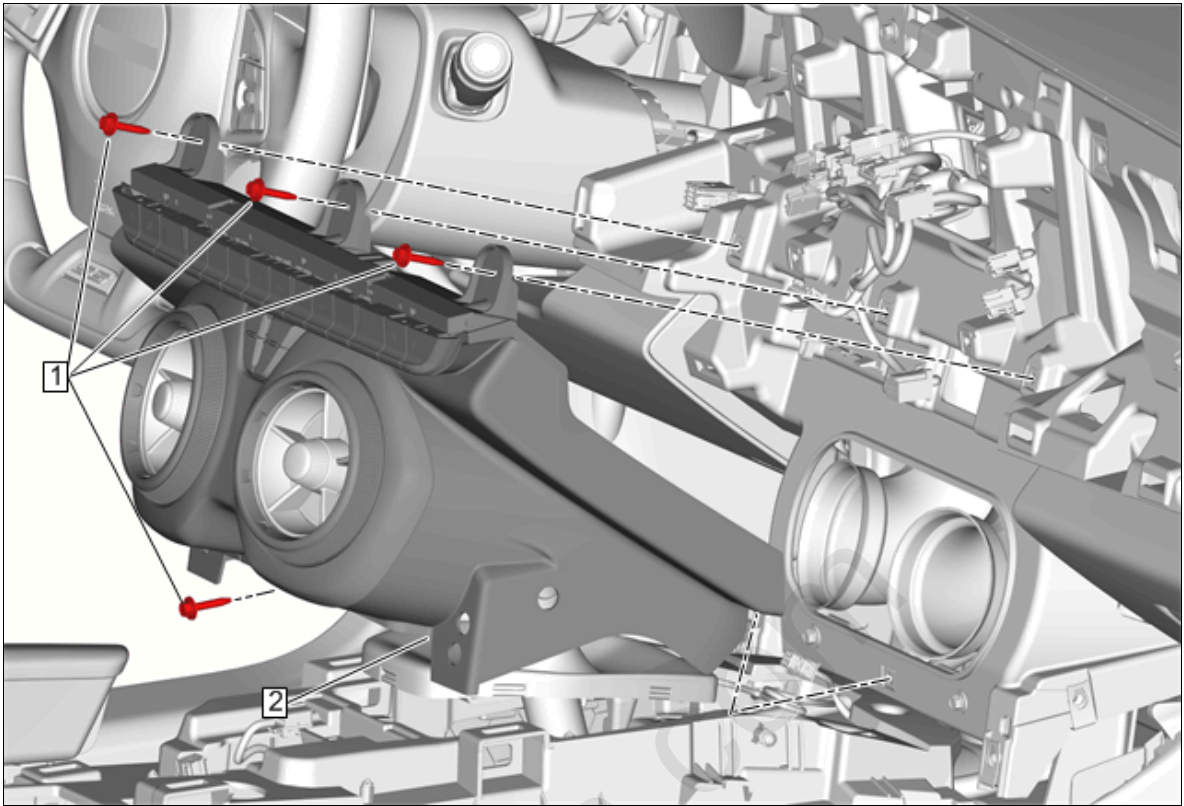


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Outer Trim Cover - Left Procedure Use a flat bladed plastic trim tool.
2	Instrument Panel Outer Trim Cover - Right Procedure Use a flat bladed plastic trim tool.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL LOWER TRIM PANEL
REPLACEMENT (WITH UV6) > REMOVAL PROCEDURE

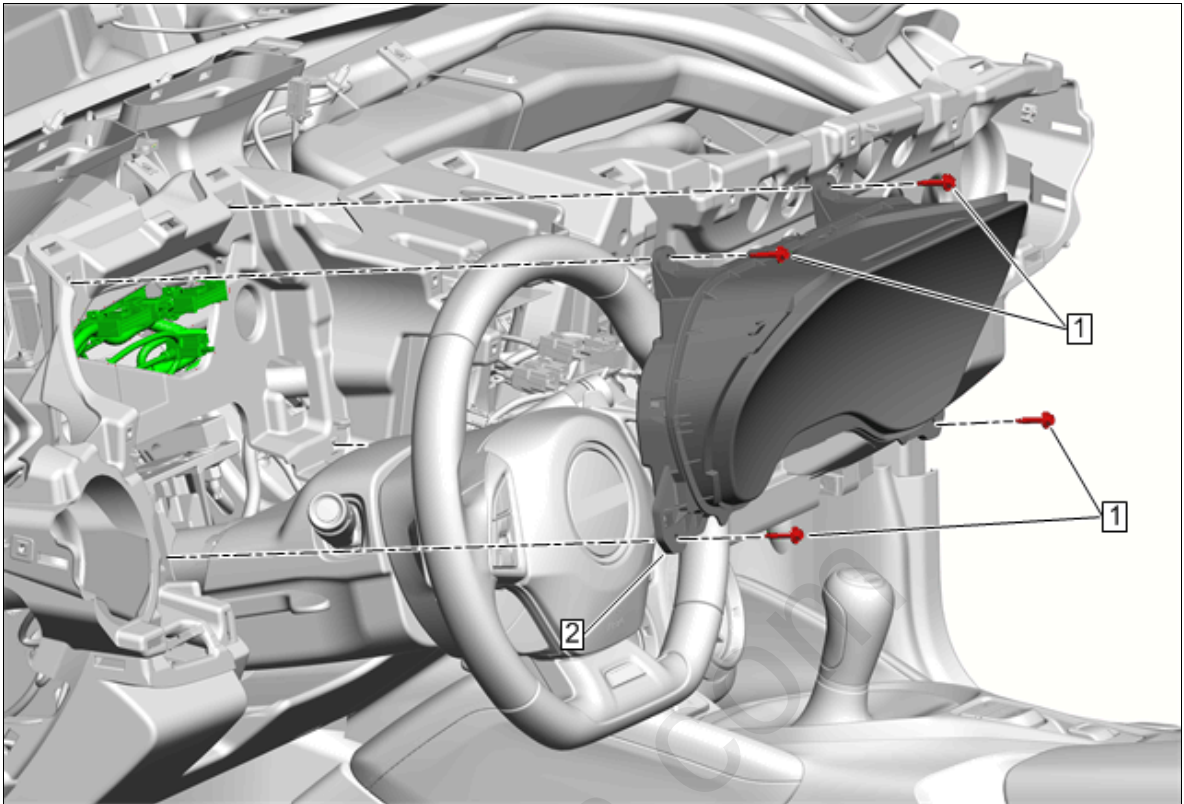
Fig 1: Heater and Air Conditioning User Interface Control



Courtesy of GENERAL MOTORS COMPANY

1. Remove Heater and Air Conditioning User Interface Control Replacement (2).

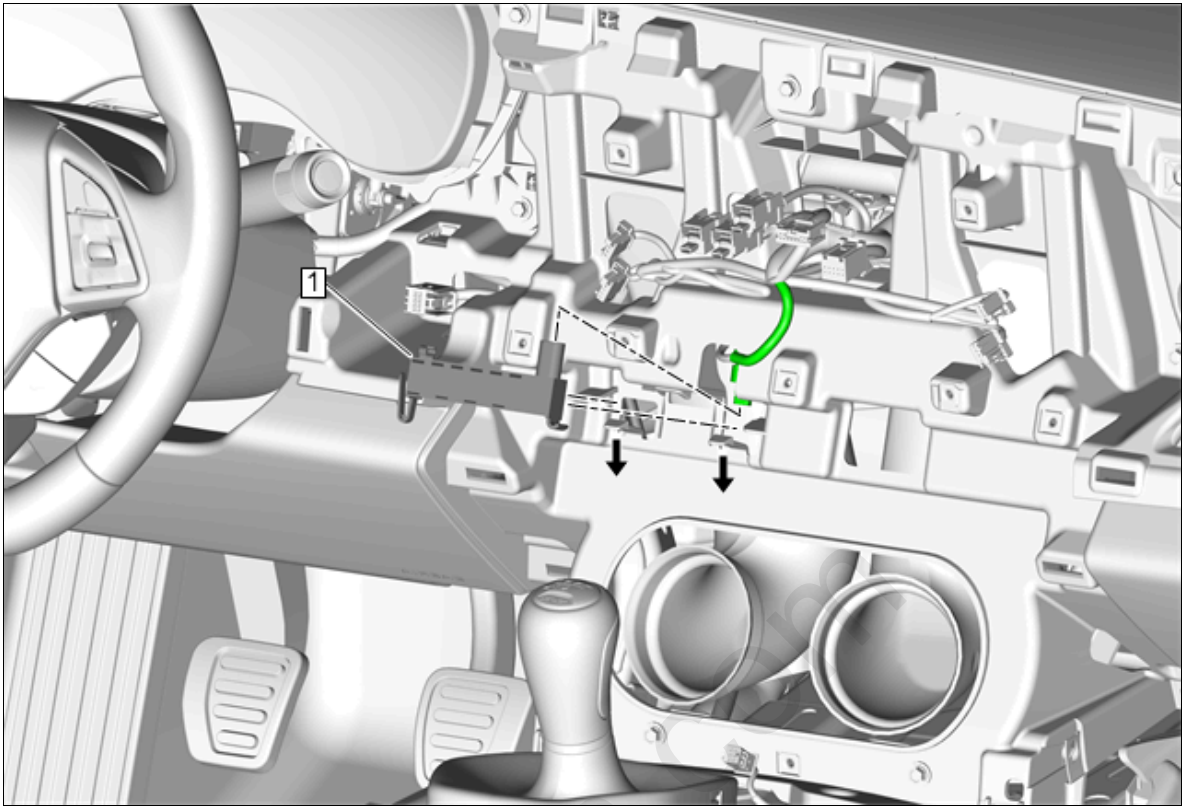
Fig 2: Instrument Cluster



Courtesy of GENERAL MOTORS COMPANY

2. Remove Instrument Cluster Replacement (2).

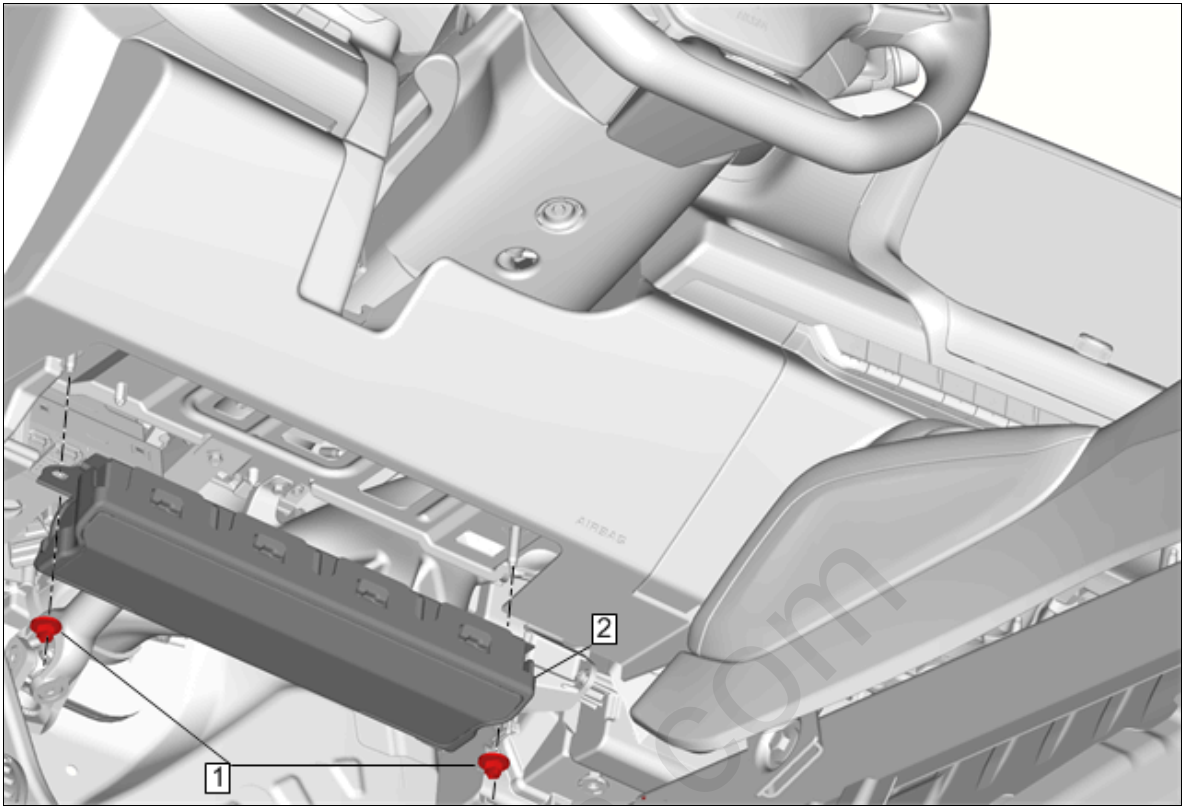
Fig 3: Low Frequency Instrument Panel Antenna



Courtesy of GENERAL MOTORS COMPANY

3. Remove Low Frequency Instrument Panel Antenna Replacement (1).

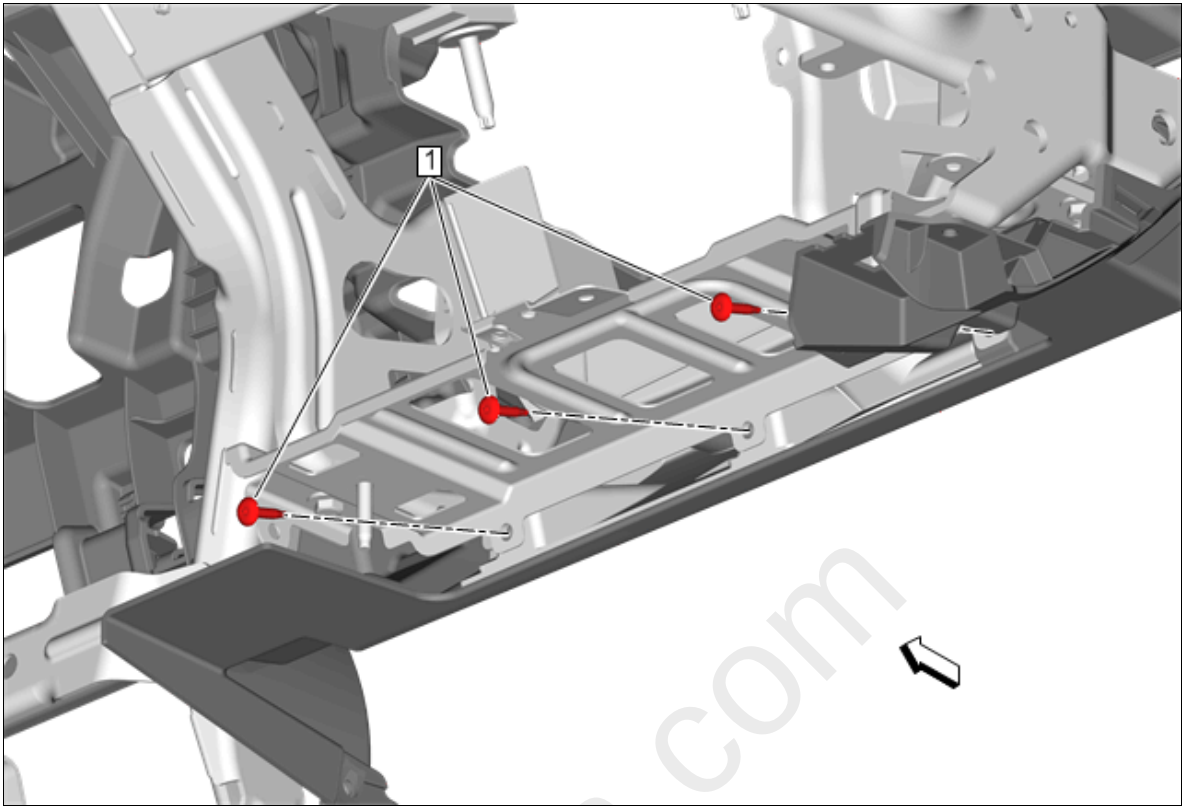
Fig 4: Instrument Panel Lower Airbag - Driver Side



Courtesy of GENERAL MOTORS COMPANY

4. Remove Instrument Panel Lower Airbag Replacement - Driver Side (2).

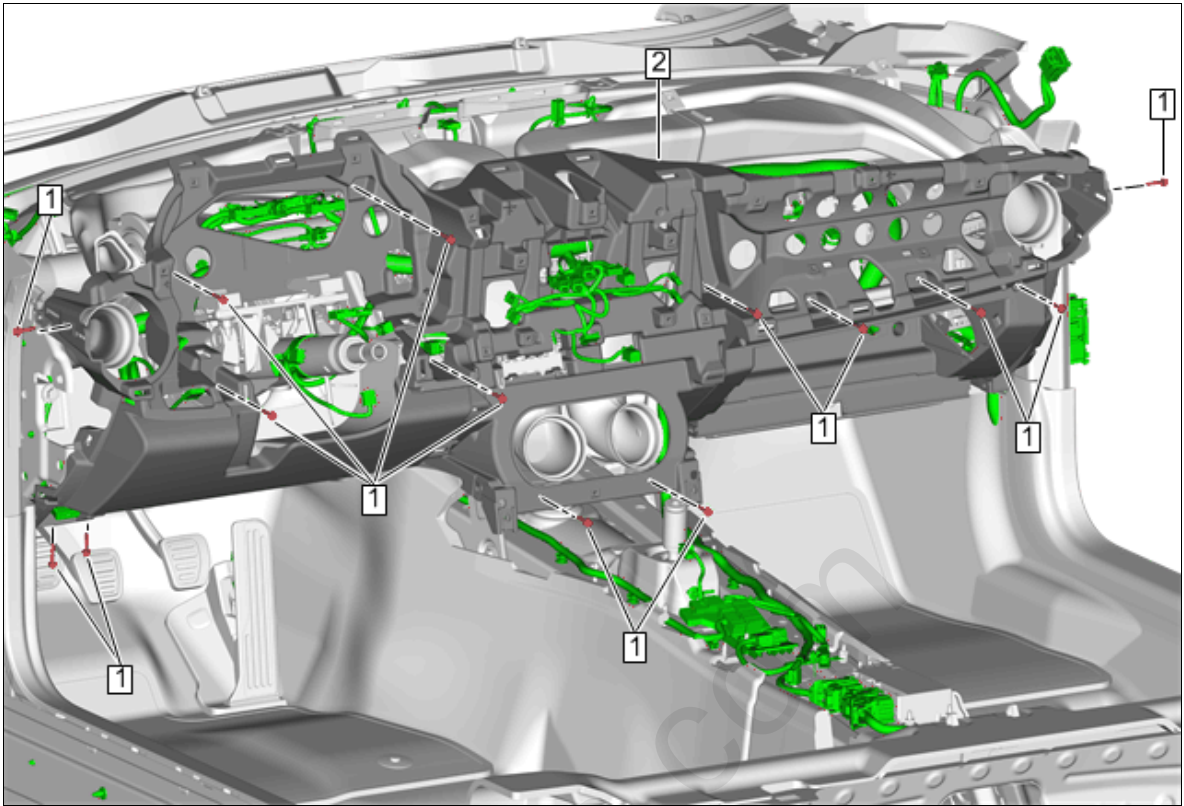
Fig 5: Instrument Panel Lower Trim Panel Bolt



Courtesy of GENERAL MOTORS COMPANY

5. Remove Instrument Panel Lower Trim Panel Bolt (1) (Qty: 3)

Fig 6: Instrument Panel Bolt

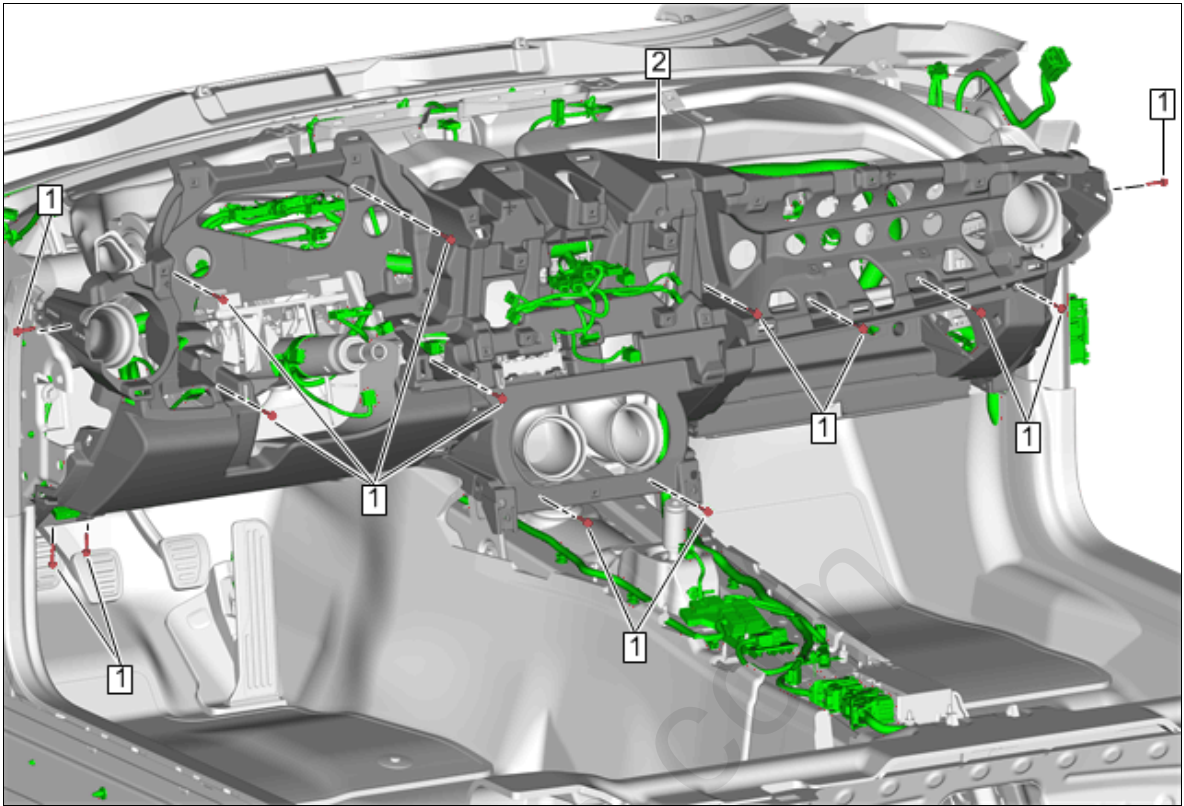


Courtesy of GENERAL MOTORS COMPANY

6. Remove Instrument Panel Bolt (1) (Qty: 14)
7. Note the location and routing of the instrument panel wiring harness prior to removal to ensure proper installation.
8. Disconnect the data link connector.
9. Remove the hood primary latch release cable handle by pressing the release cable handle upward to release the retainers from the instrument panel bracket.
10. With the aid of an assistant, remove the instrument panel lower trim panel (2) from the vehicle.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL LOWER TRIM PANEL REPLACEMENT (WITH UV6) > INSTALLATION PROCEDURE

Fig 1: Instrument Panel Bolt



Courtesy of GENERAL MOTORS COMPANY

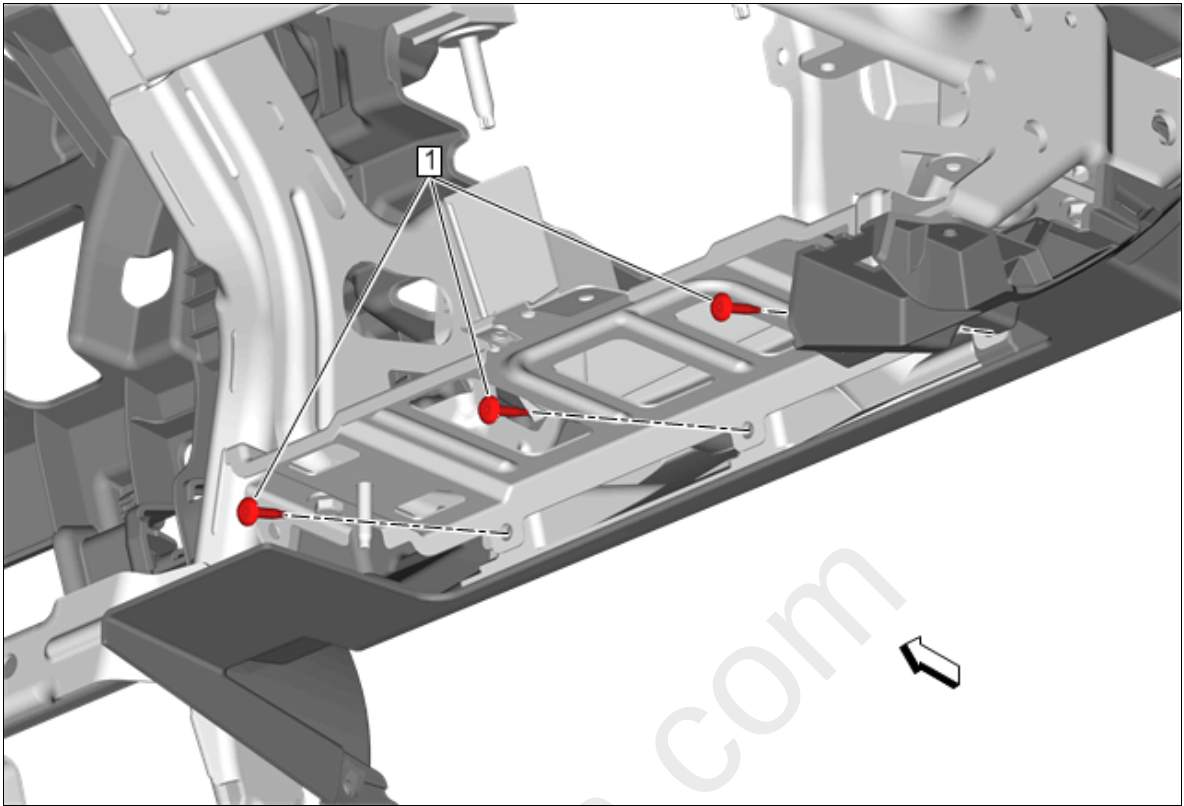


CAUTION:

Refer to Fastener Caution .

1. With the aid of an assistant, position the instrument panel lower trim panel (2) in the vehicle.
2. Reposition the instrument panel wiring harness into the vehicle position as was noted in the removal and connect the fasteners securing the instrument panel lower trim panel (2).
3. Install Instrument Panel Bolt (1) (Qty: 14) and tighten to 2.5 N.m (22 lb in)

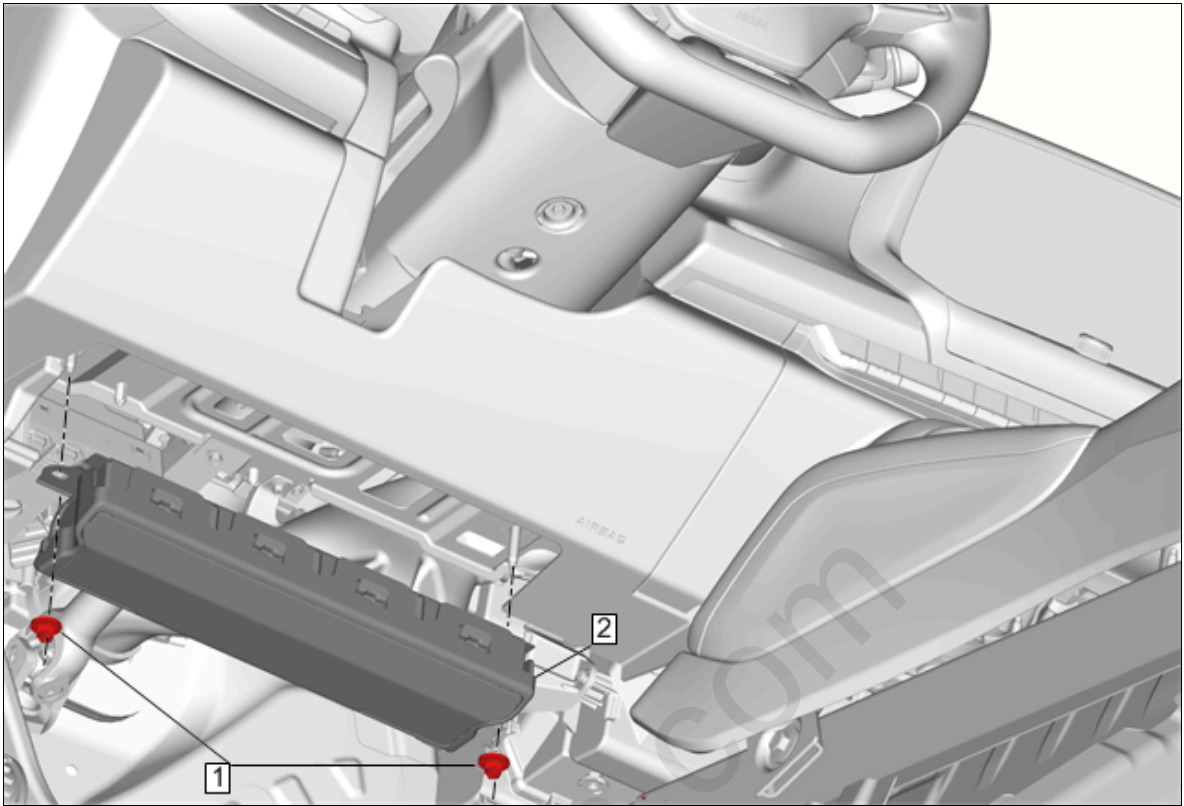
Fig 2: Instrument Panel Lower Trim Panel Bolt



Courtesy of GENERAL MOTORS COMPANY

4. Install Instrument Panel Lower Trim Panel Bolt (1) (Qty: 3) and tighten to 2.5 N.m (22 lb in)

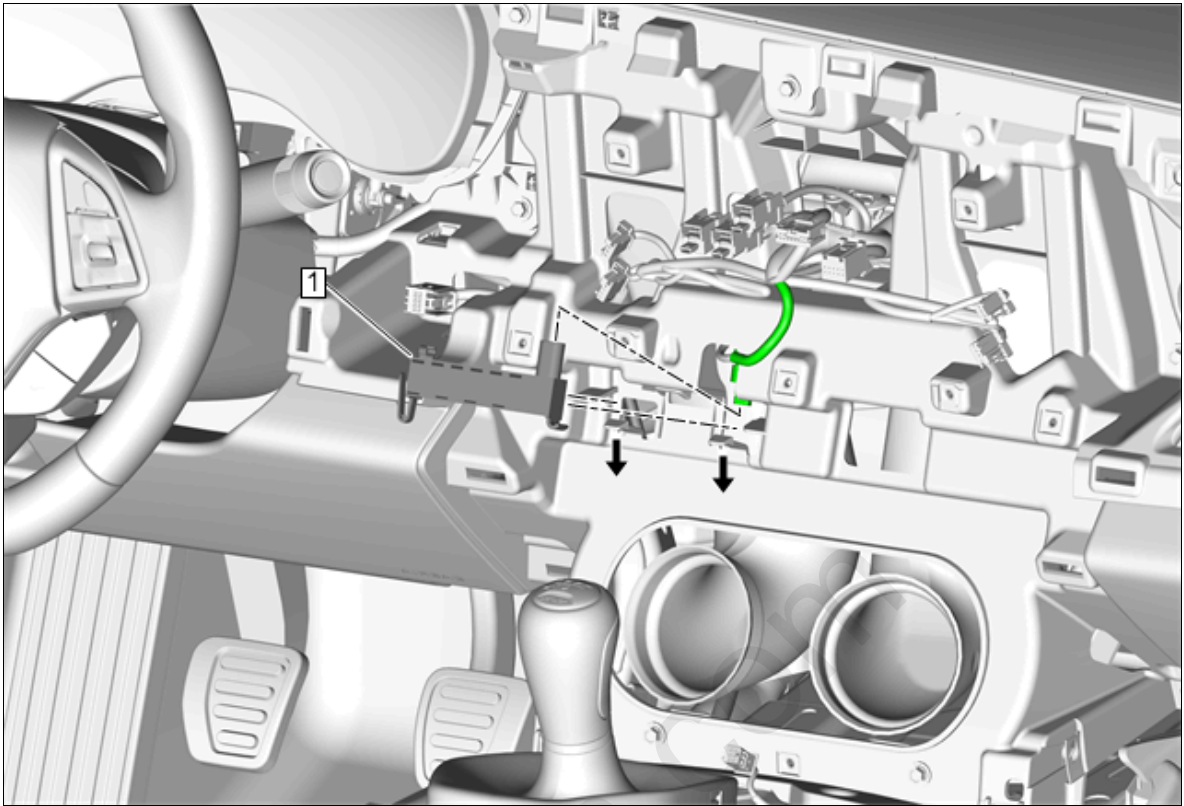
Fig 3: Instrument Panel Lower Airbag - Driver Side



Courtesy of GENERAL MOTORS COMPANY

5. Install Instrument Panel Lower Airbag Replacement - Driver Side (2).

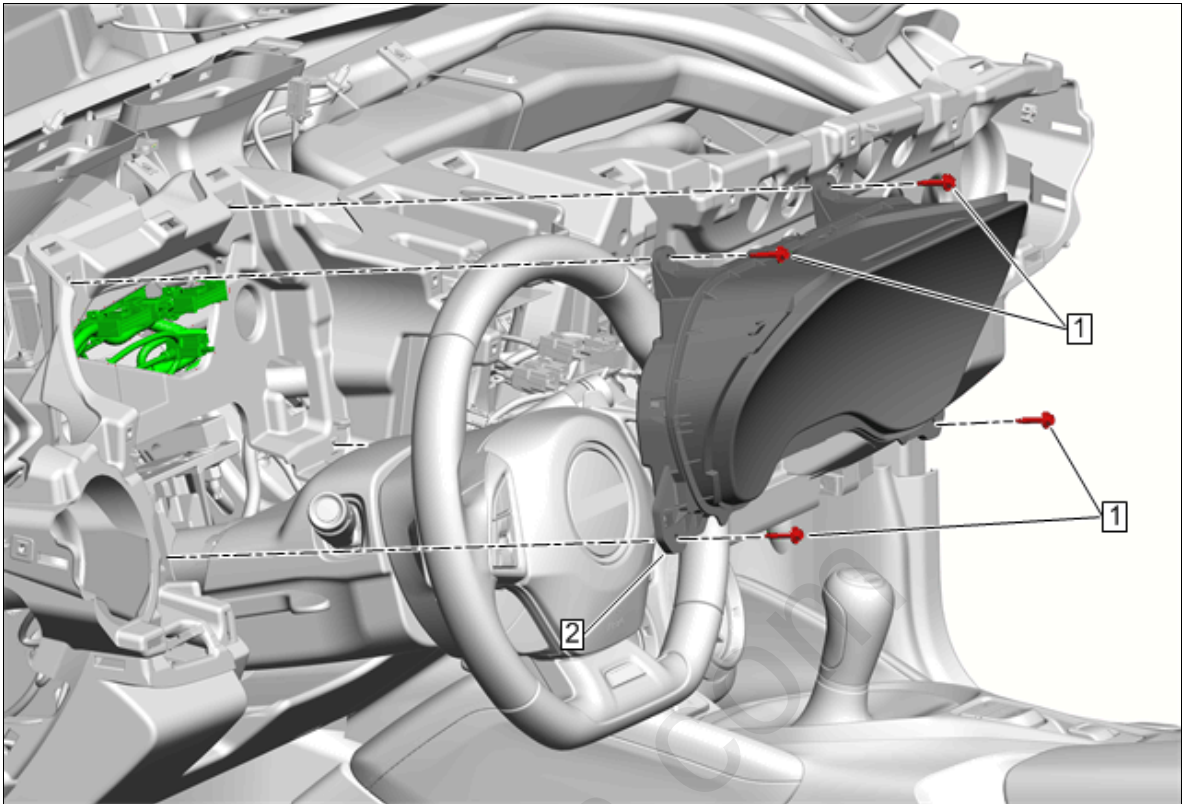
Fig 4: Low Frequency Instrument Panel Antenna



Courtesy of GENERAL MOTORS COMPANY

6. Install Low Frequency Instrument Panel Antenna Replacement (1).

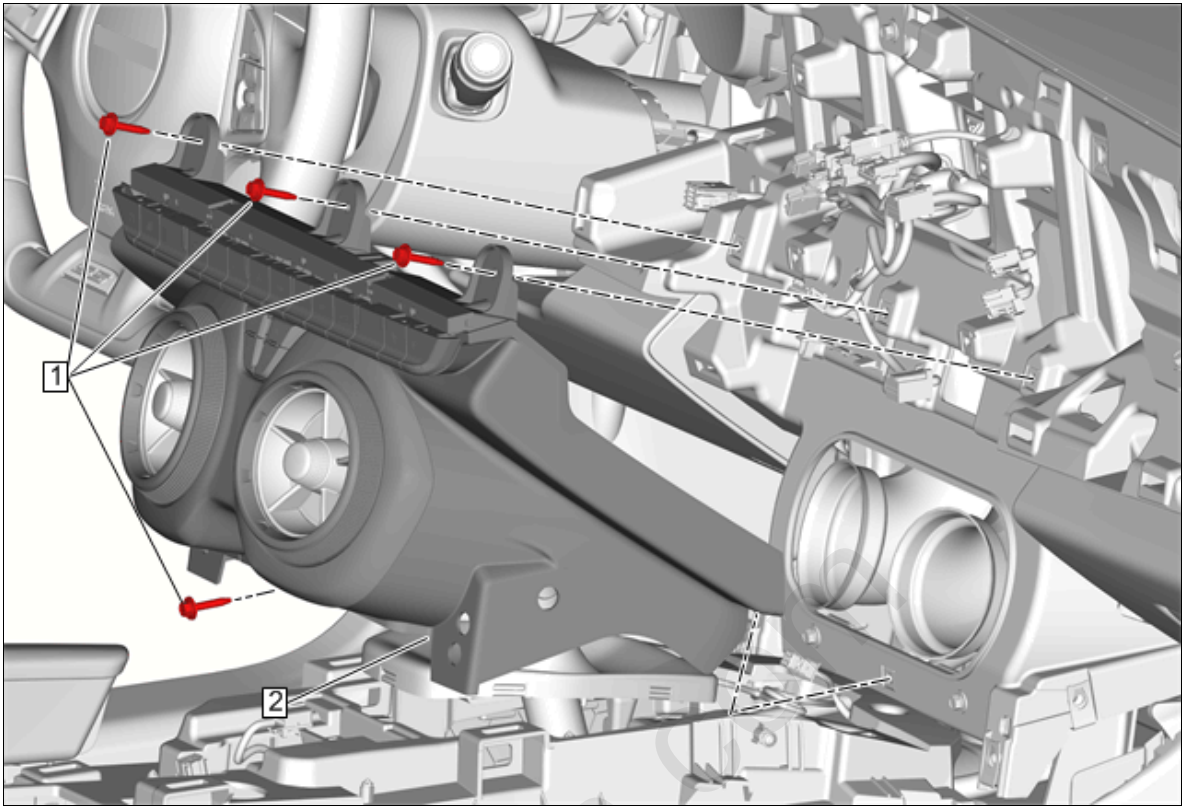
Fig 5: Instrument Cluster



Courtesy of GENERAL MOTORS COMPANY

7. Install Instrument Cluster Replacement (2).

Fig 6: Heater and Air Conditioning User Interface Control

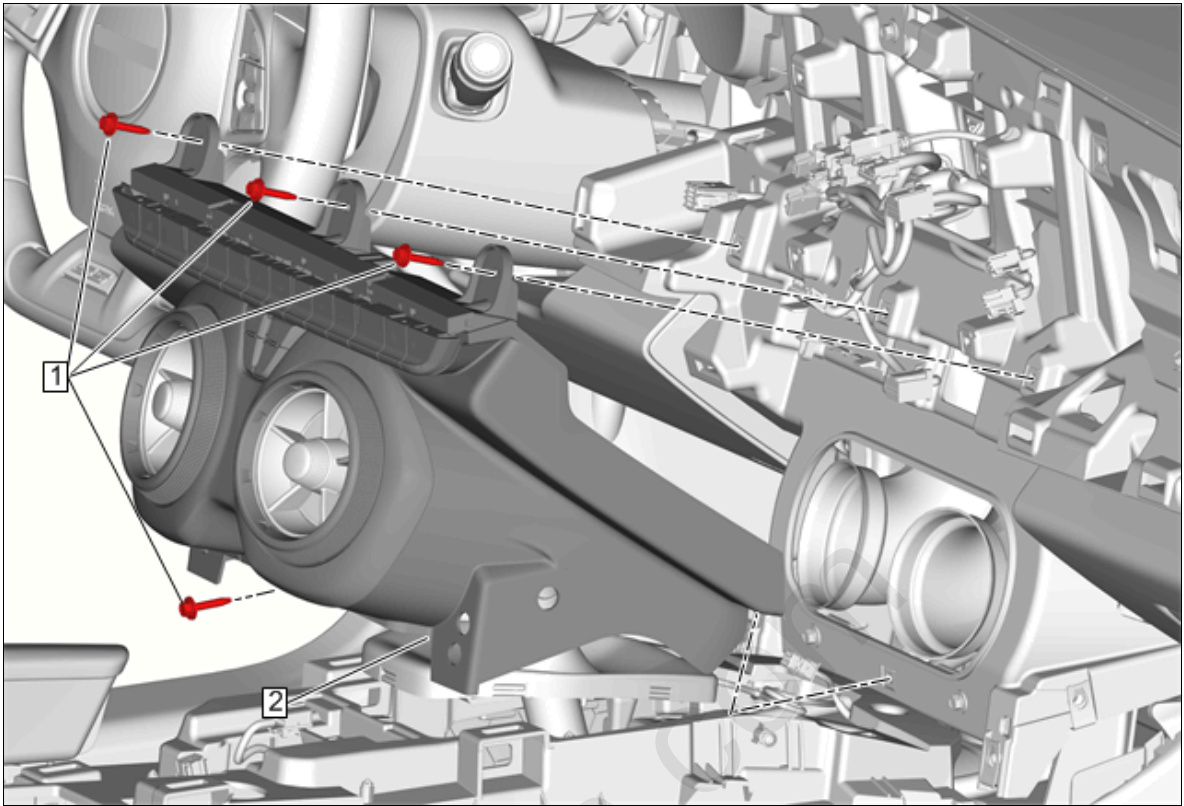


Courtesy of GENERAL MOTORS COMPANY

8. Install Heater and Air Conditioning User Interface Control Replacement (2).

**REPAIR INSTRUCTIONS > INSTRUMENT PANEL LOWER TRIM PANEL
REPLACEMENT (WITHOUT UV6) > REMOVAL PROCEDURE**

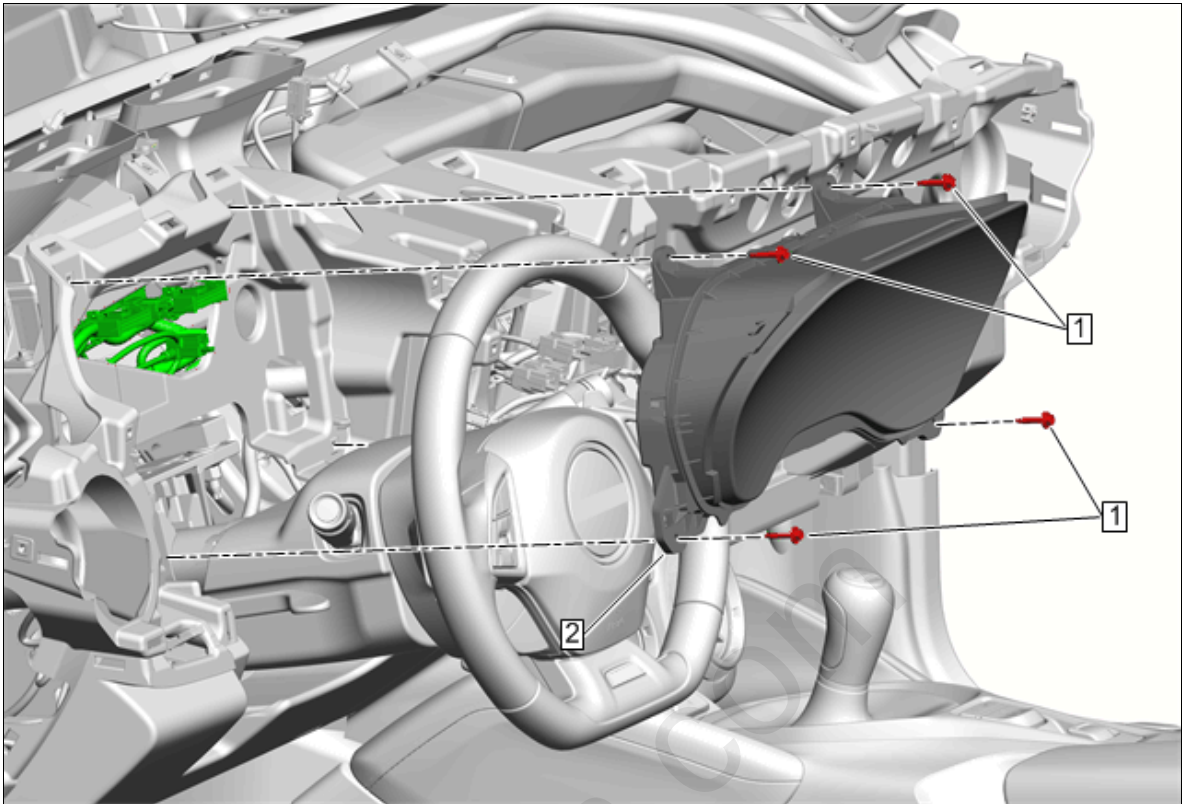
Fig 1: Heater and Air Conditioning User Interface Control



Courtesy of GENERAL MOTORS COMPANY

1. Remove Heater and Air Conditioning User Interface Control Replacement (2).

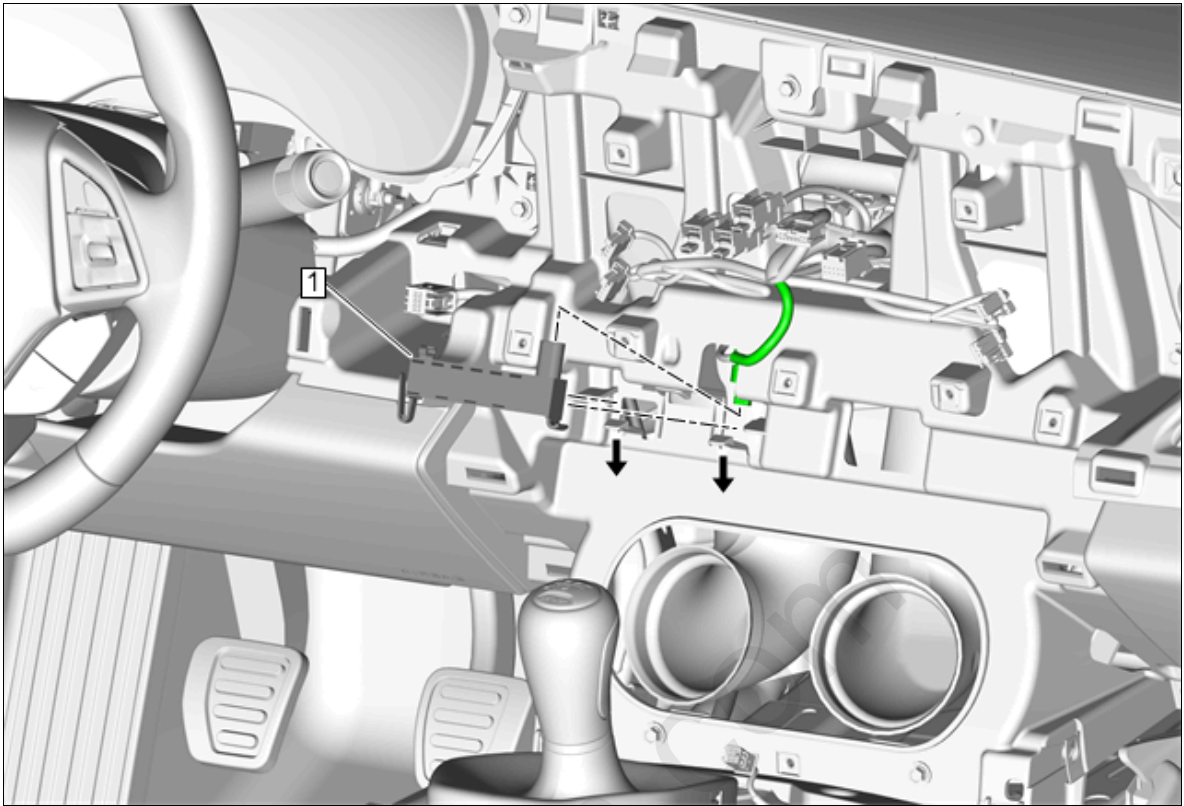
Fig 2: Instrument Cluster



Courtesy of GENERAL MOTORS COMPANY

2. Remove Instrument Cluster Replacement (2).

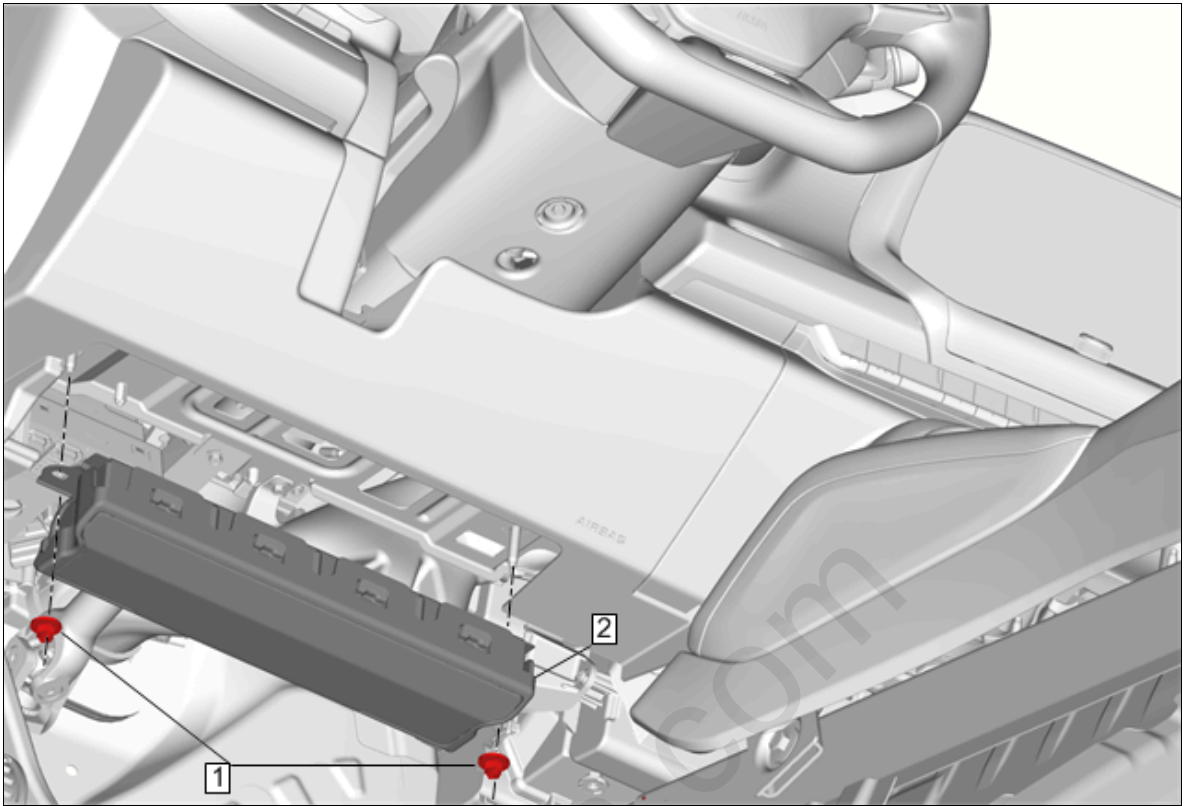
Fig 3: Low Frequency Instrument Panel Antenna



Courtesy of GENERAL MOTORS COMPANY

3. Remove Low Frequency Instrument Panel Antenna Replacement (1).

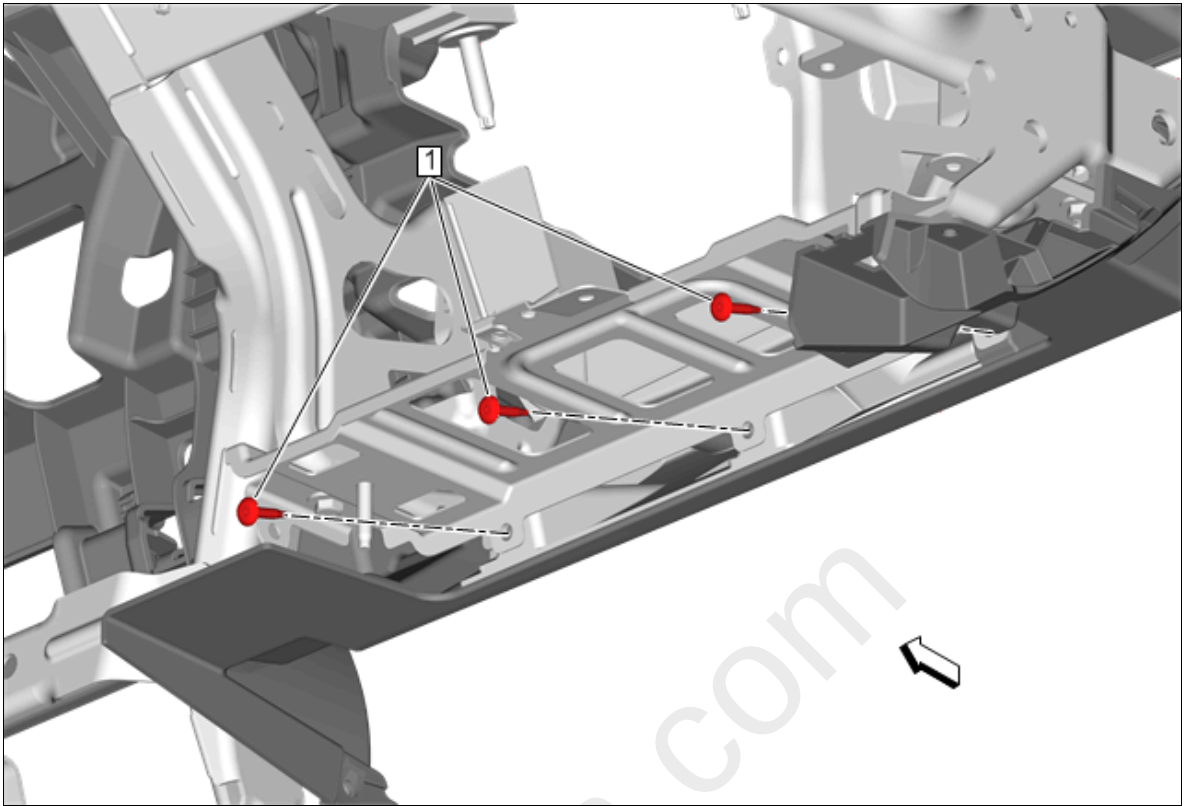
Fig 4: Instrument Panel Lower Airbag - Driver Side



Courtesy of GENERAL MOTORS COMPANY

4. Remove Instrument Panel Lower Airbag Replacement - Driver Side (2).

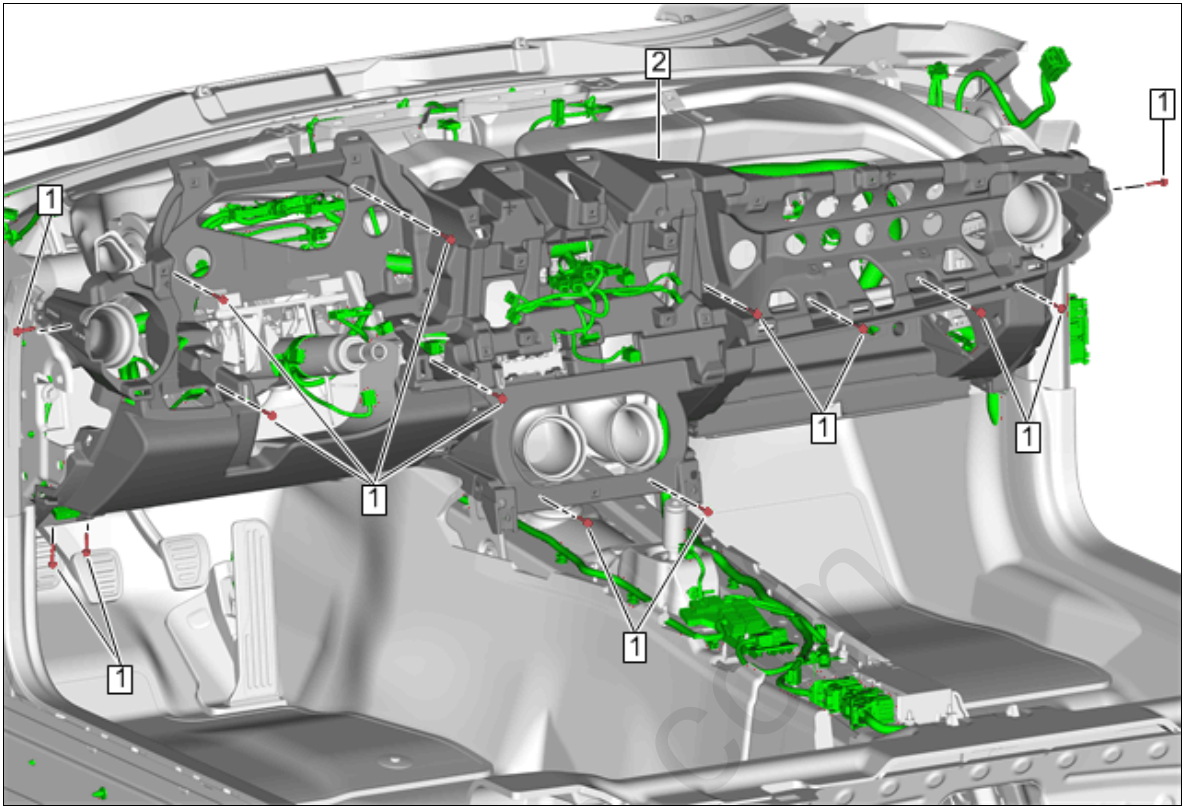
Fig 5: Instrument Panel Lower Trim Panel Bolt



Courtesy of GENERAL MOTORS COMPANY

5. Remove Instrument Panel Lower Trim Panel Bolt (1) (Qty: 3)

Fig 6: Instrument Panel Bolt

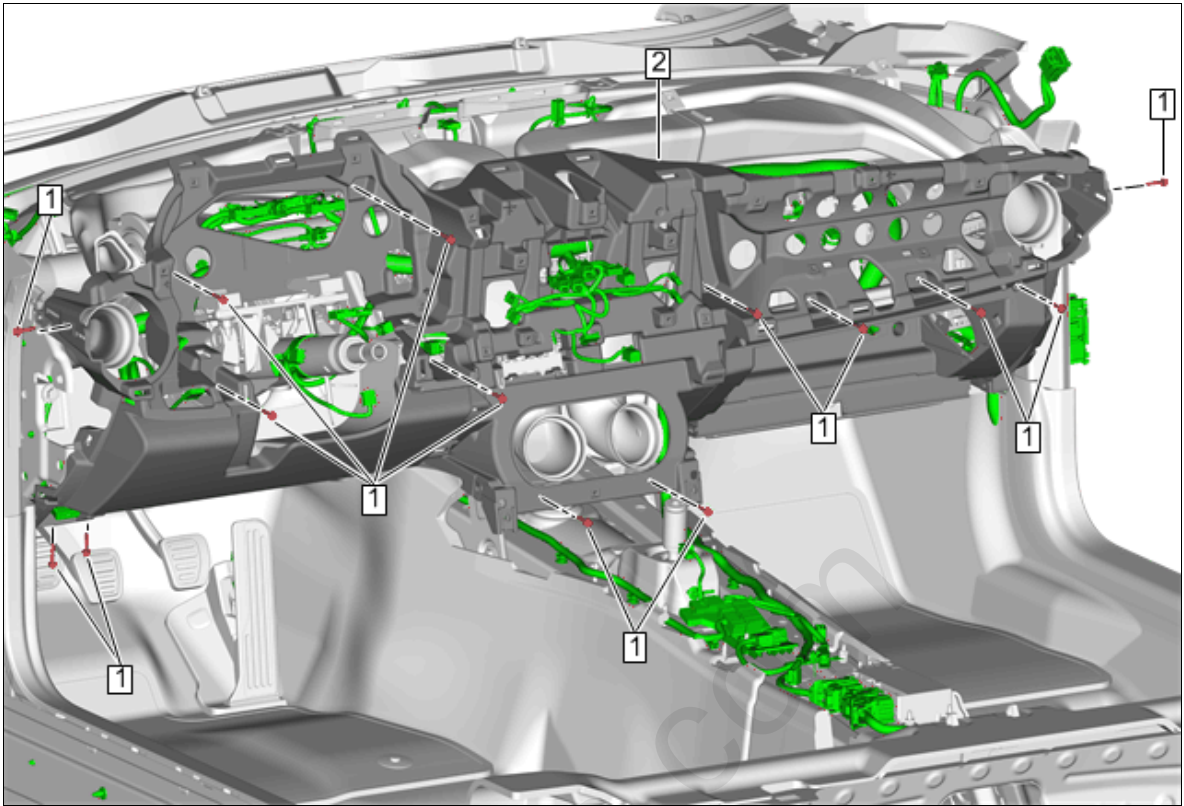


Courtesy of GENERAL MOTORS COMPANY

6. Remove Instrument Panel Bolt (1) (Qty: 14)
7. Note the location and routing of the instrument panel wiring harness prior to removal to ensure proper installation.
8. Disconnect the data link connector.
9. Disconnect all electrical connectors.
10. With the aid of an assistant, remove the instrument panel lower trim panel (2) from the vehicle.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL LOWER TRIM PANEL REPLACEMENT (WITHOUT UV6) > INSTALLATION PROCEDURE

Fig 1: Instrument Panel Bolt



Courtesy of GENERAL MOTORS COMPANY

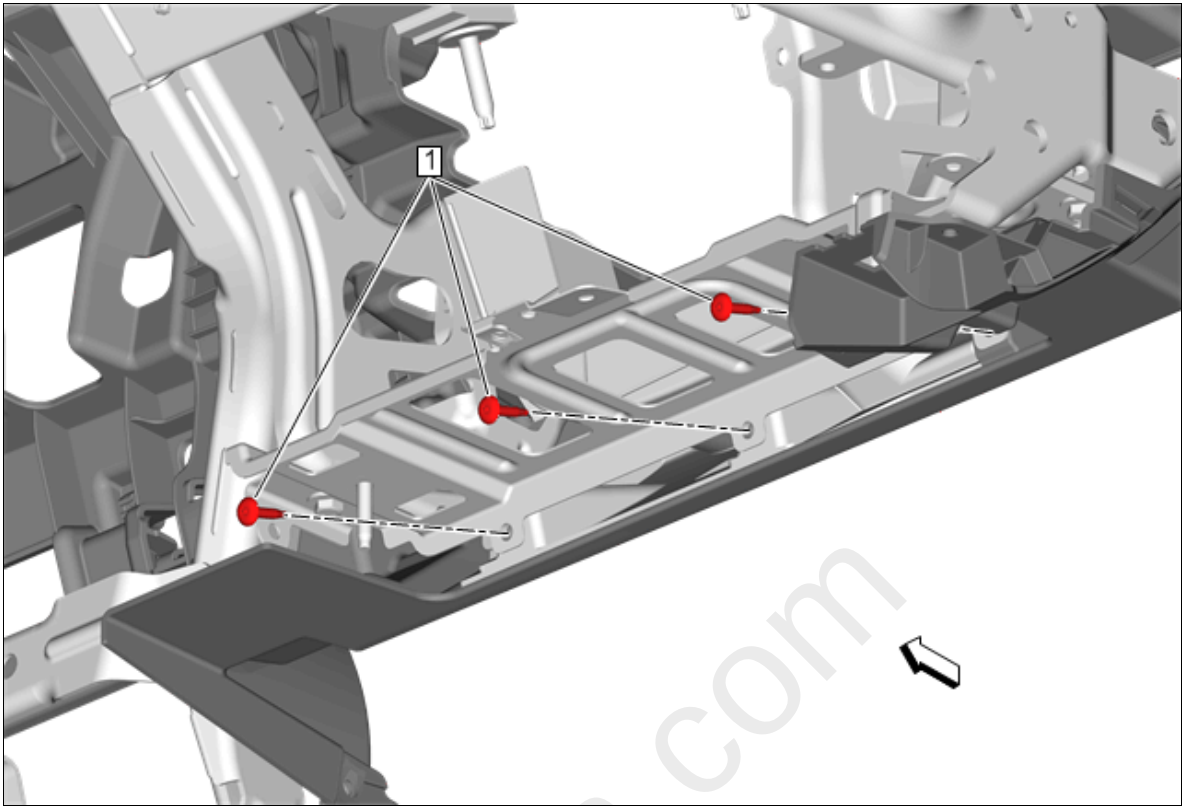


CAUTION:

Refer to Fastener Caution .

1. With the aid of an assistant, position the instrument panel lower trim panel (2) in the vehicle.
2. Reposition the instrument panel wiring harness into the vehicle position as was noted in the removal and connect the fasteners securing the instrument panel lower trim panel (2).
3. Install Instrument Panel Bolt (1) (Qty: 14) and tighten to 2.5 N.m (22 lb in)

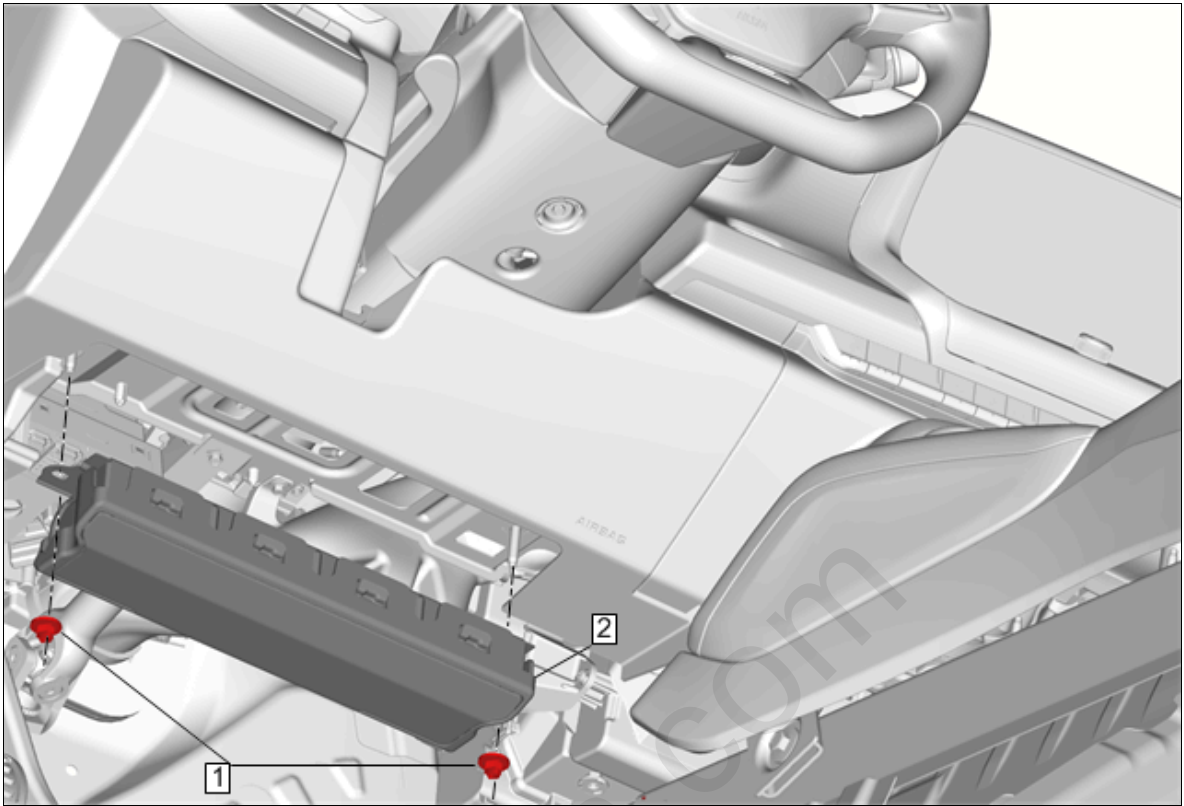
Fig 2: Instrument Panel Lower Trim Panel Bolt



Courtesy of GENERAL MOTORS COMPANY

4. Install Instrument Panel Lower Trim Panel Bolt (1) (Qty: 3) and tighten to 2.5 N.m (22 lb in)

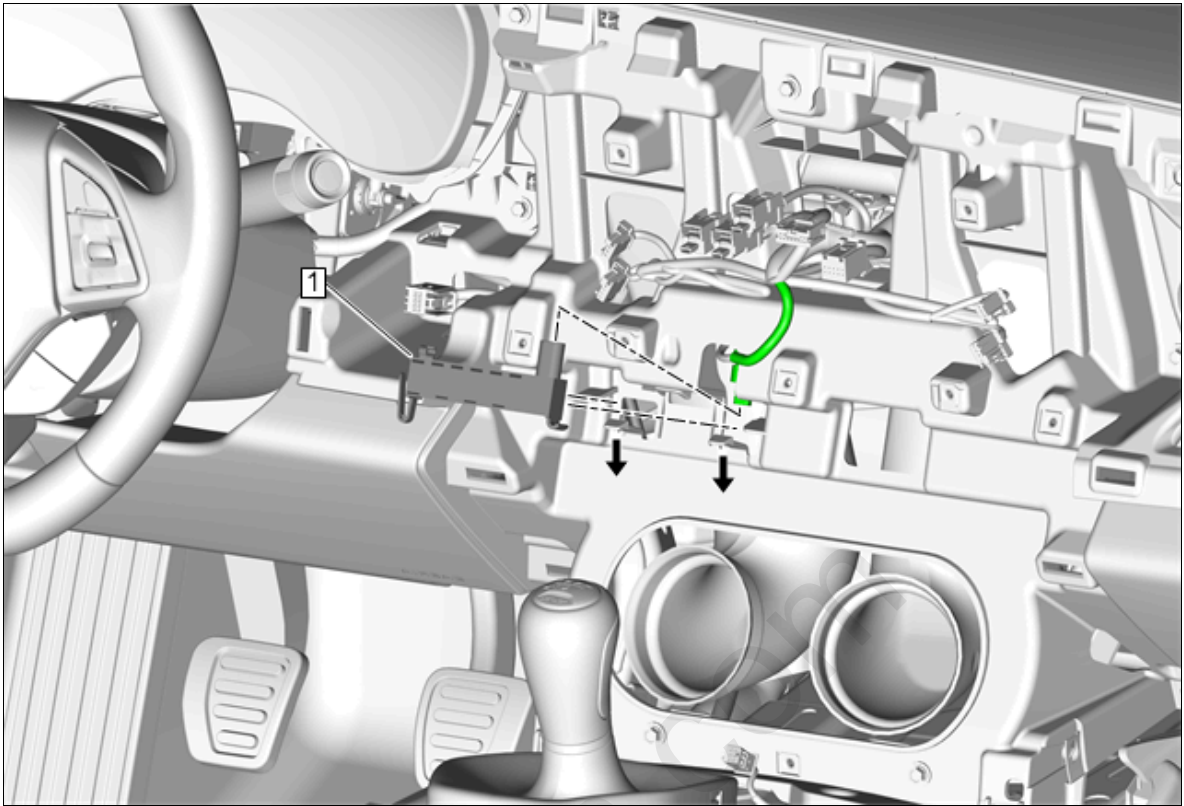
Fig 3: Instrument Panel Lower Airbag - Driver Side



Courtesy of GENERAL MOTORS COMPANY

5. Install Instrument Panel Lower Airbag Replacement - Driver Side (2).

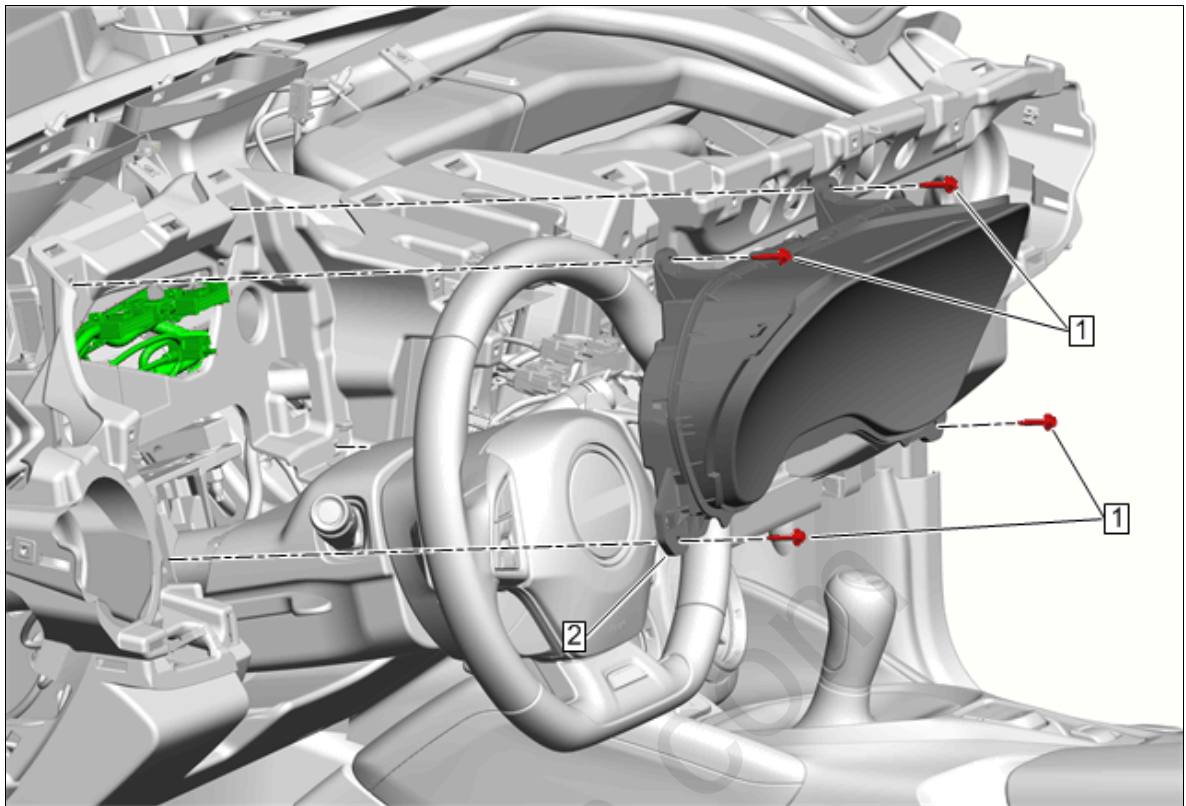
Fig 4: Low Frequency Instrument Panel Antenna



Courtesy of GENERAL MOTORS COMPANY

6. Install Low Frequency Instrument Panel Antenna Replacement (1).

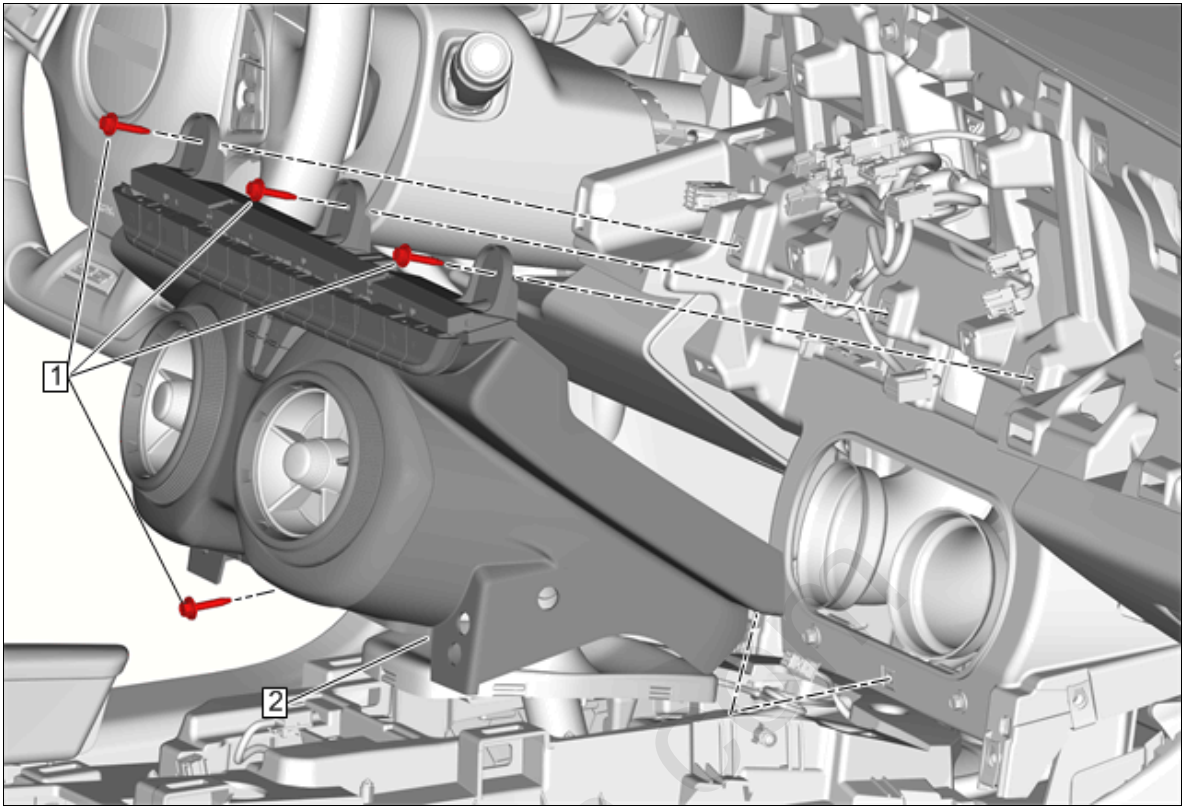
Fig 5: Instrument Cluster



Courtesy of GENERAL MOTORS COMPANY

7. Install Instrument Cluster Replacement (2).

Fig 6: Heater and Air Conditioning User Interface Control

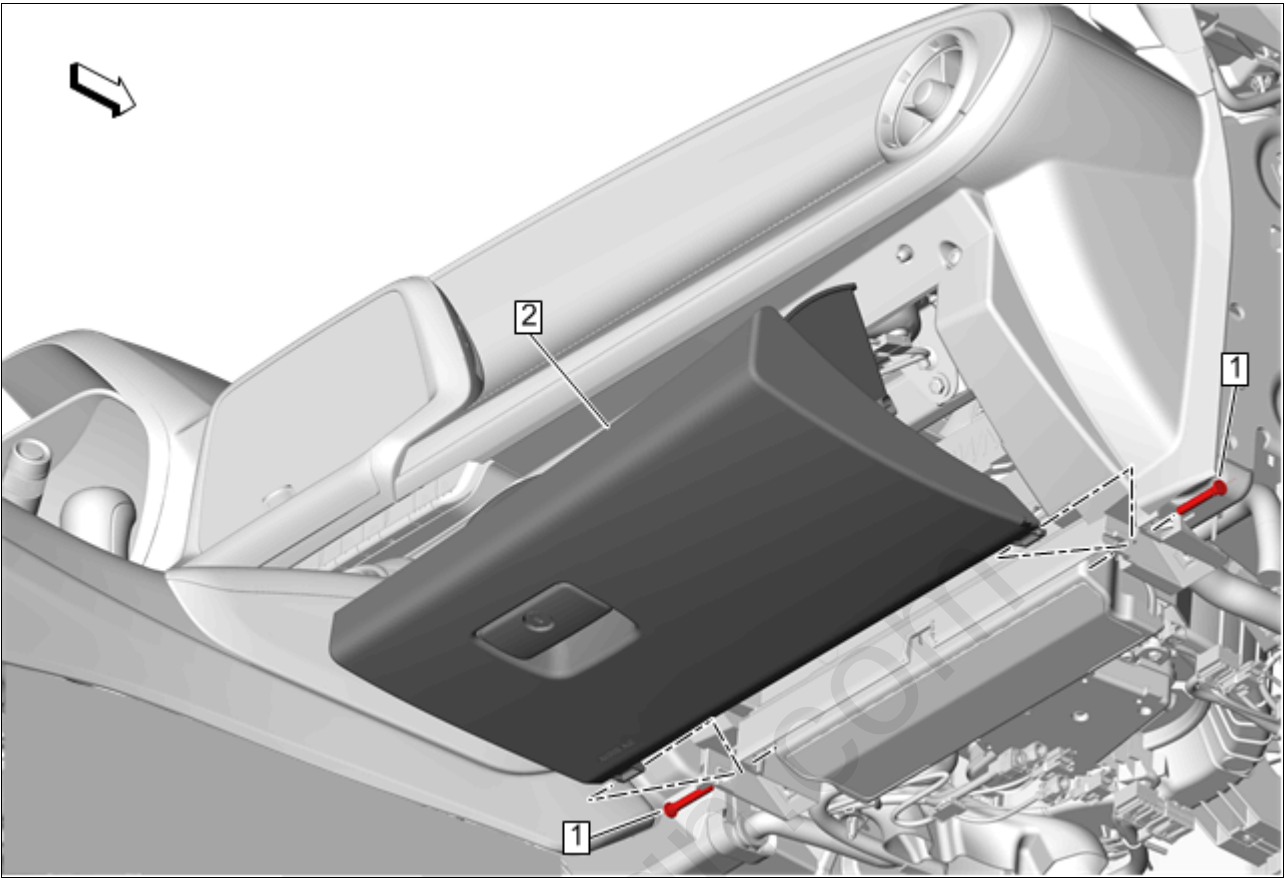


Courtesy of GENERAL MOTORS COMPANY

8. Install Heater and Air Conditioning User Interface Control Replacement (2).

REPAIR INSTRUCTIONS > INSTRUMENT PANEL COMPARTMENT REPLACEMENT

Fig 1: Instrument Panel Compartment

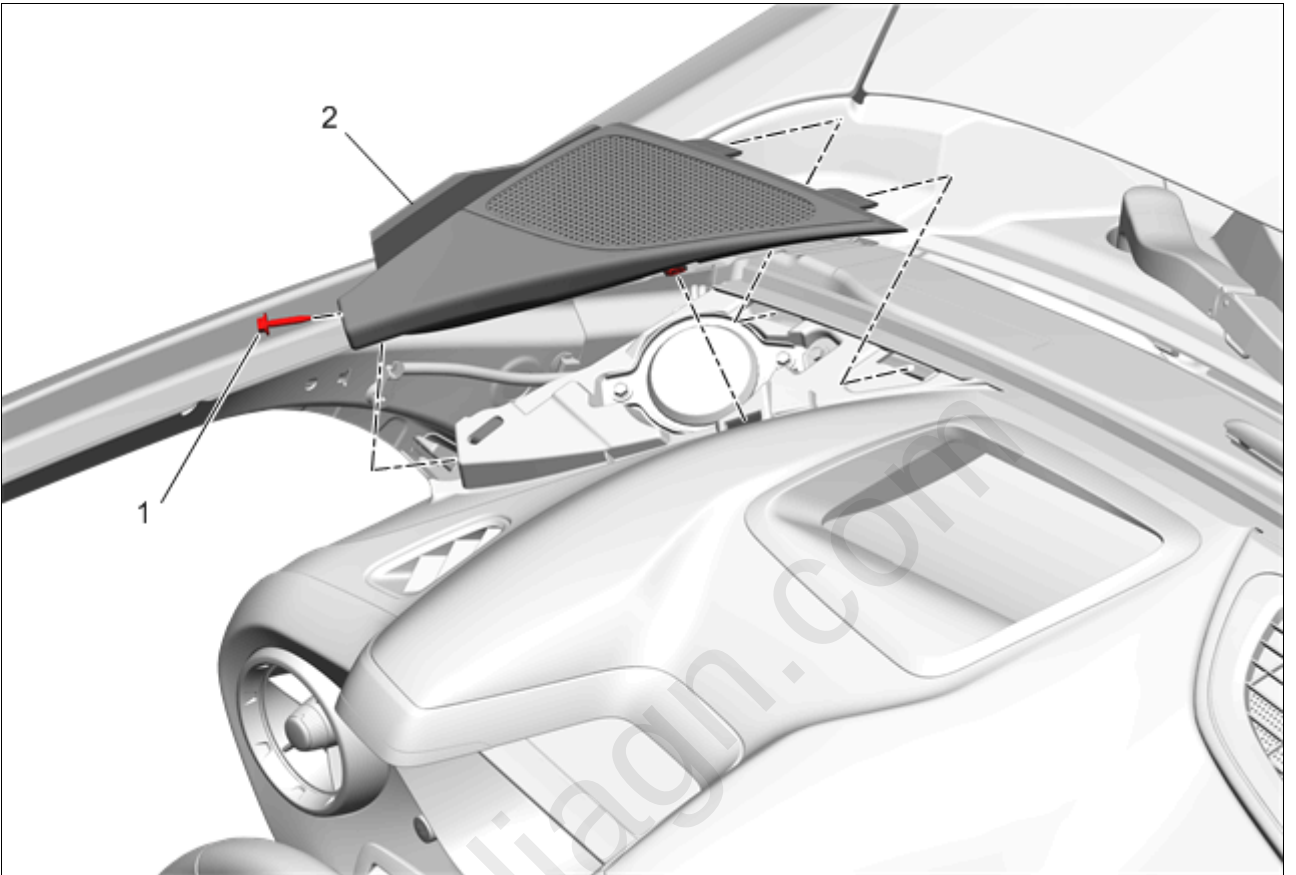


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Multiuse Module Bracket Replacement - Instrument Panel	
1	Instrument Panel Compartment Door Hinge (Qty: 2) Procedure 1. Use a suitable tool. 2. Release the retaining tabs.
2	Instrument Panel Compartment Procedure 1. Disconnect the instrument panel compartment door dampener from the instrument panel compartment door. 2. Squeeze the sides of the compartment and lower the compartment past the stops.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL TRIM PAD RADIO SPEAKER
OPENING COVER REPLACEMENT

Fig 1: Instrument Panel Trim Pad Radio Speaker Opening Cover



Courtesy of GENERAL MOTORS COMPANY

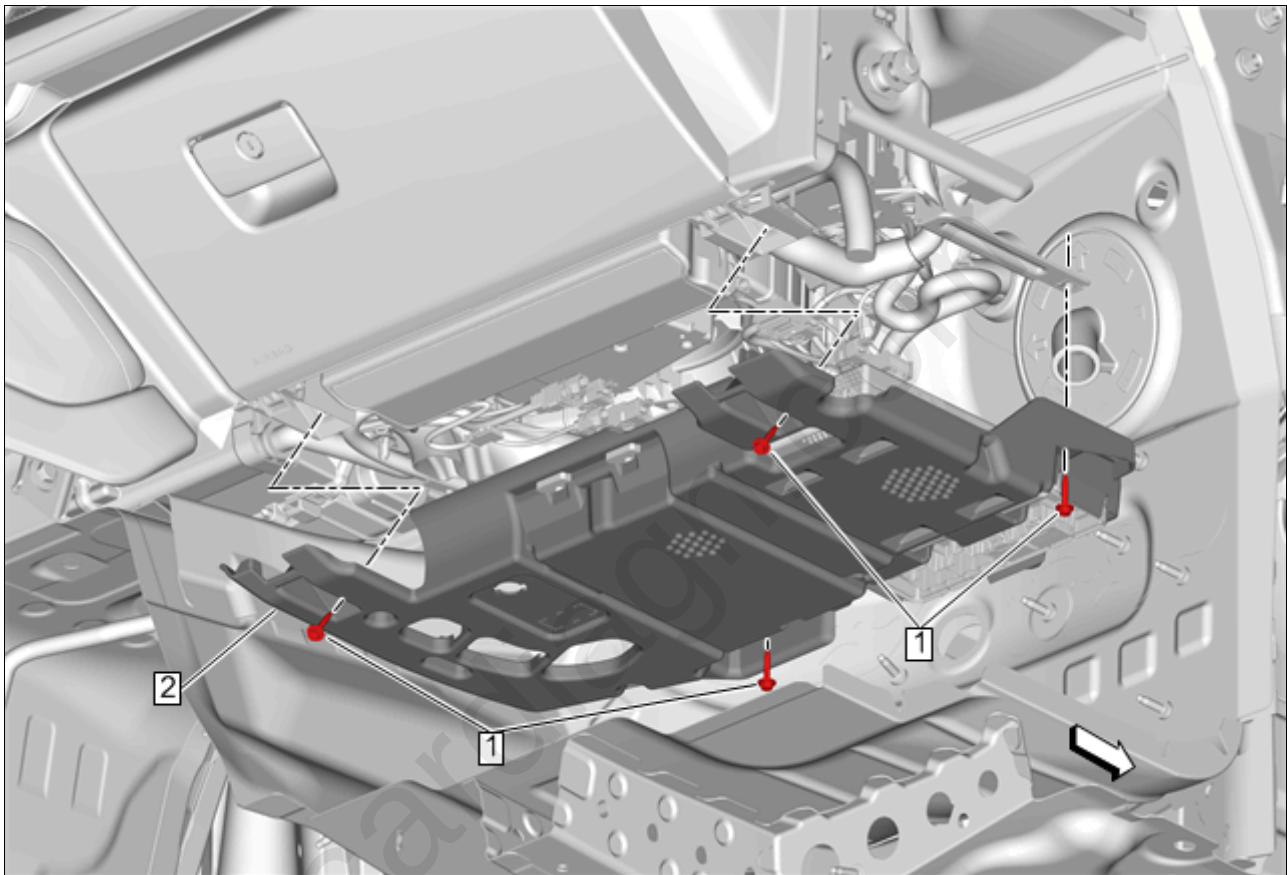
Callout	Component Name
Preliminary Procedure Windshield Garnish Molding Replacement - Left Side (Coupe) Windshield Garnish Molding Replacement - Left Side (Convertible)	
1	Instrument Panel Bolt <i>CAUTION:</i> <i>Refer to Fastener Caution .</i> Tighten 2.5 N.m (22 lb in)

Procedure

Use a flat bladed plastic trim tool.

REPAIR INSTRUCTIONS > MULTIUSE MODULE BRACKET REPLACEMENT - INSTRUMENT PANEL

Fig 1: Multiuse Module Bracket - Instrument Panel



Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Multiuse Module Upper Tray Bolt (Qty: 4)
	CAUTION: <i>Refer to Fastener Caution .</i>
	Tighten 2.5 N.m (22 lb in)

Multiuse Module Bracket

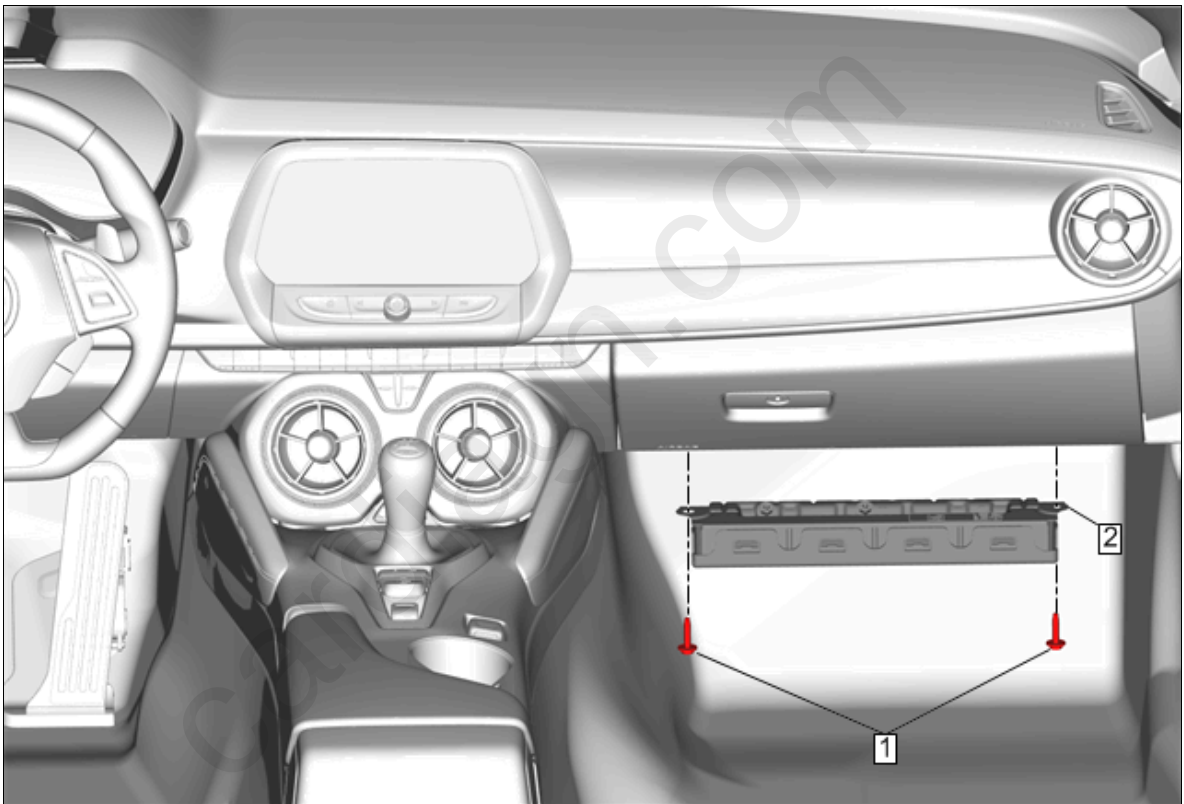
Procedure

2

1. Disconnect the electrical connectors.
2. Transfer components as necessary.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL TIE BAR REPLACEMENT > REMOVAL PROCEDURE

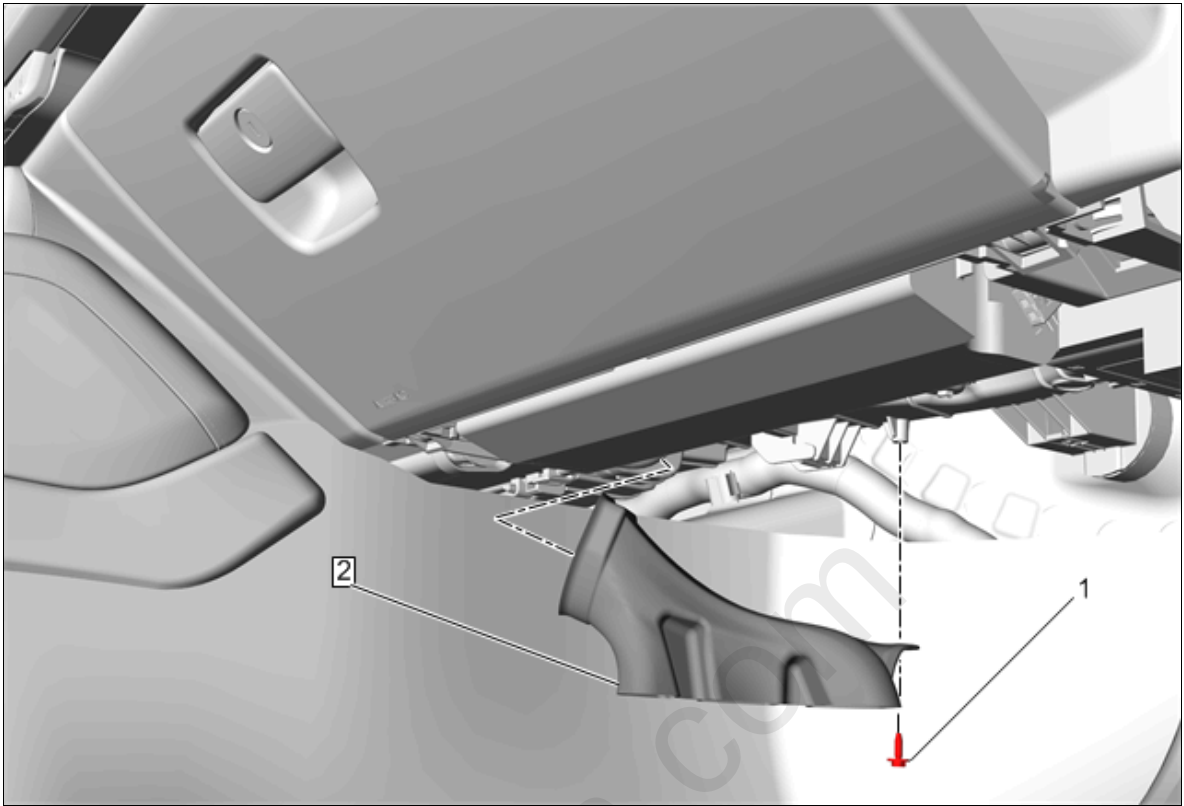
Fig 1: Instrument Panel Lower Airbag - Passenger Side



Courtesy of GENERAL MOTORS COMPANY

1. Remove Instrument Panel Lower Airbag Replacement - Passenger Side (2).

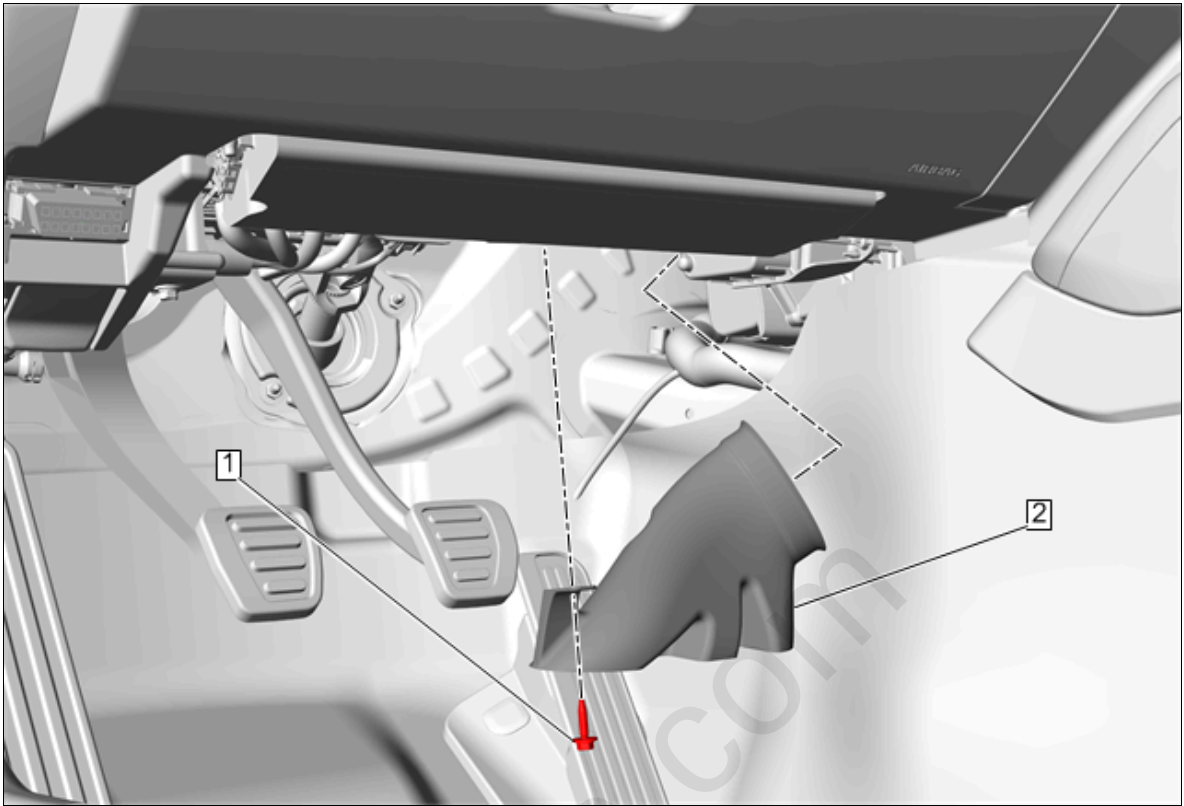
Fig 2: Floor Front Air Outlet Duct - Right Side



Courtesy of GENERAL MOTORS COMPANY

2. Remove Floor Front Air Outlet Duct Replacement - Right Side (2).

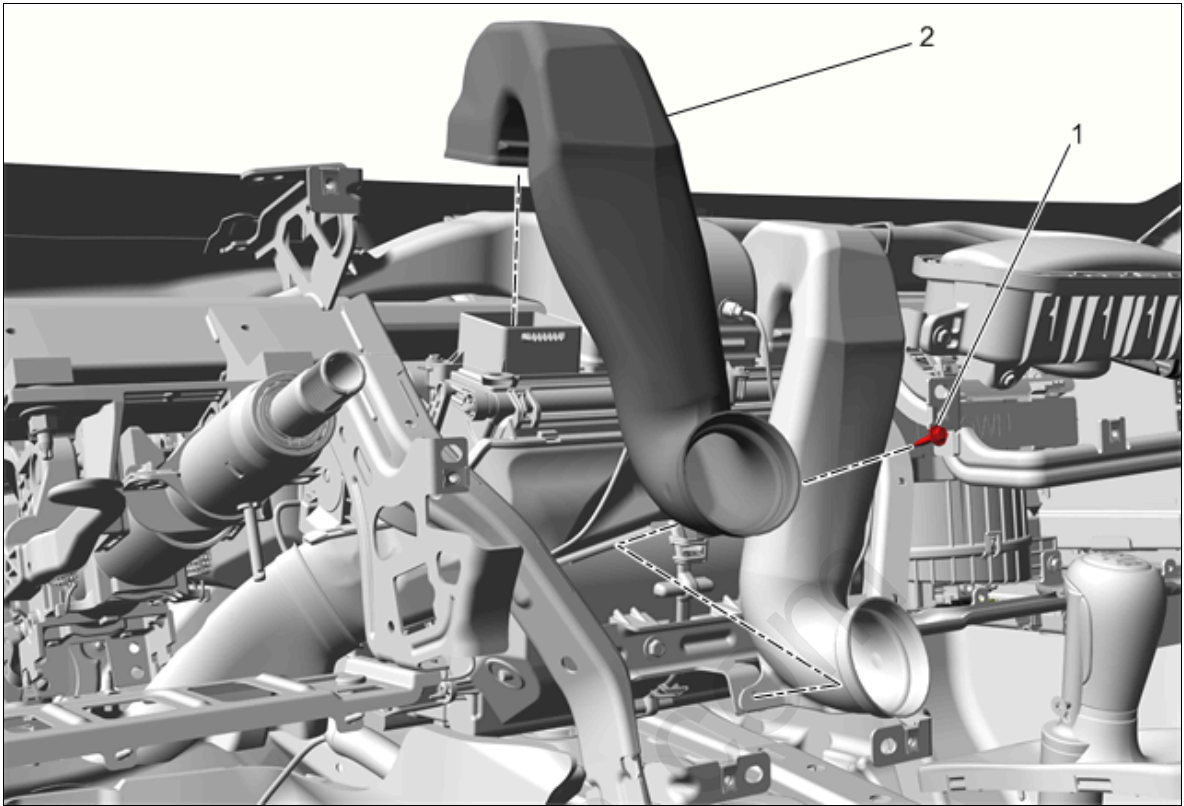
Fig 3: Floor Front Air Outlet Duct - Left Side



Courtesy of GENERAL MOTORS COMPANY

3. Remove Floor Front Air Outlet Duct Replacement - Left Side (2).

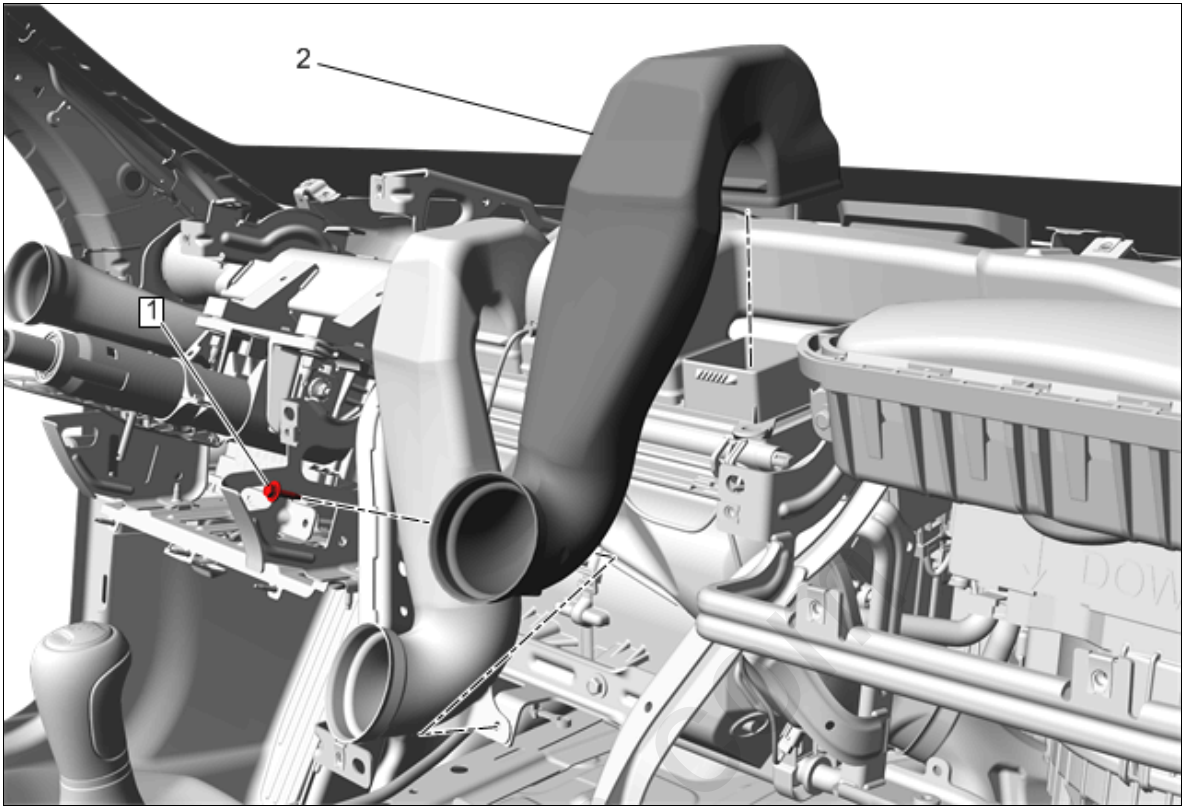
Fig 4: Instrument Panel Center Air Outlet Duct (Left Side)



Courtesy of GENERAL MOTORS COMPANY

4. Remove Instrument Panel Center Air Outlet Duct Replacement (Left Side) Instrument Panel Center Air Outlet Duct Replacement (Right Side) (2).

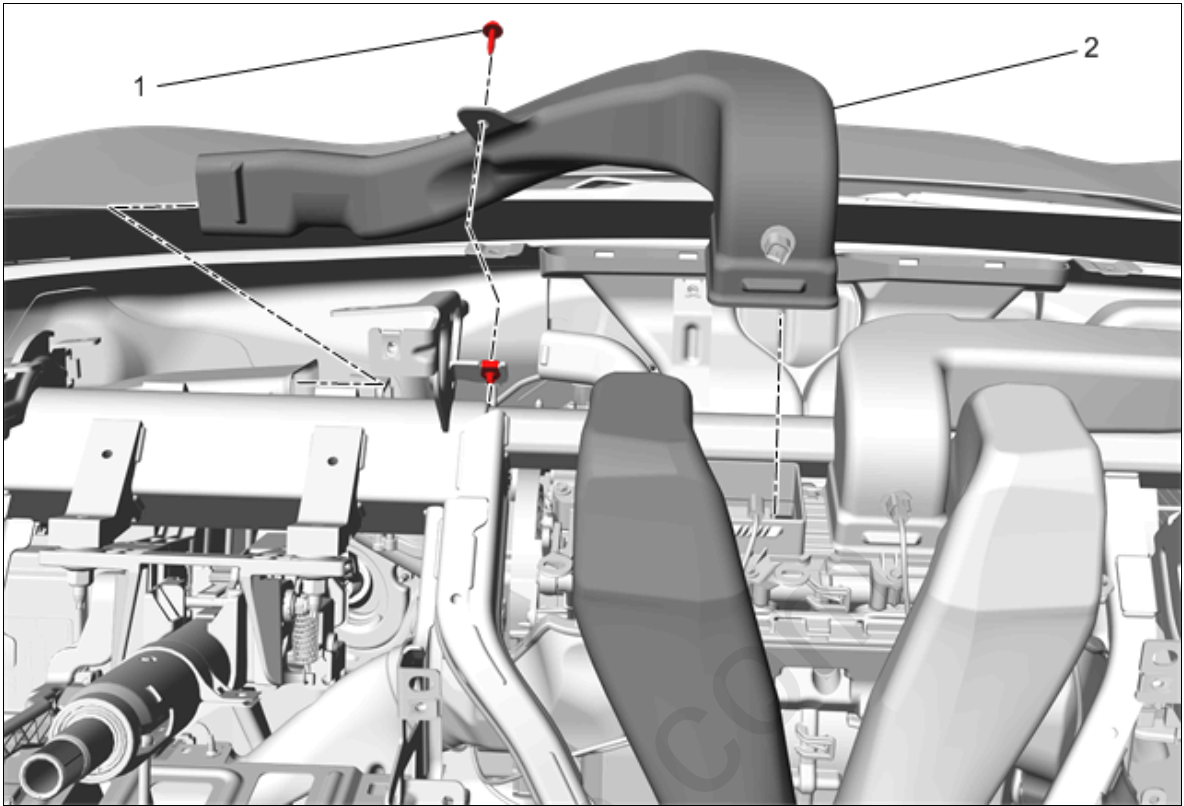
Fig 5: Instrument Panel Center Air Outlet Duct (Right Side)



Courtesy of GENERAL MOTORS COMPANY

5. Remove Instrument Panel Center Air Outlet Duct Replacement (Left Side)Instrument Panel Center Air Outlet Duct Replacement (Right Side) (2).

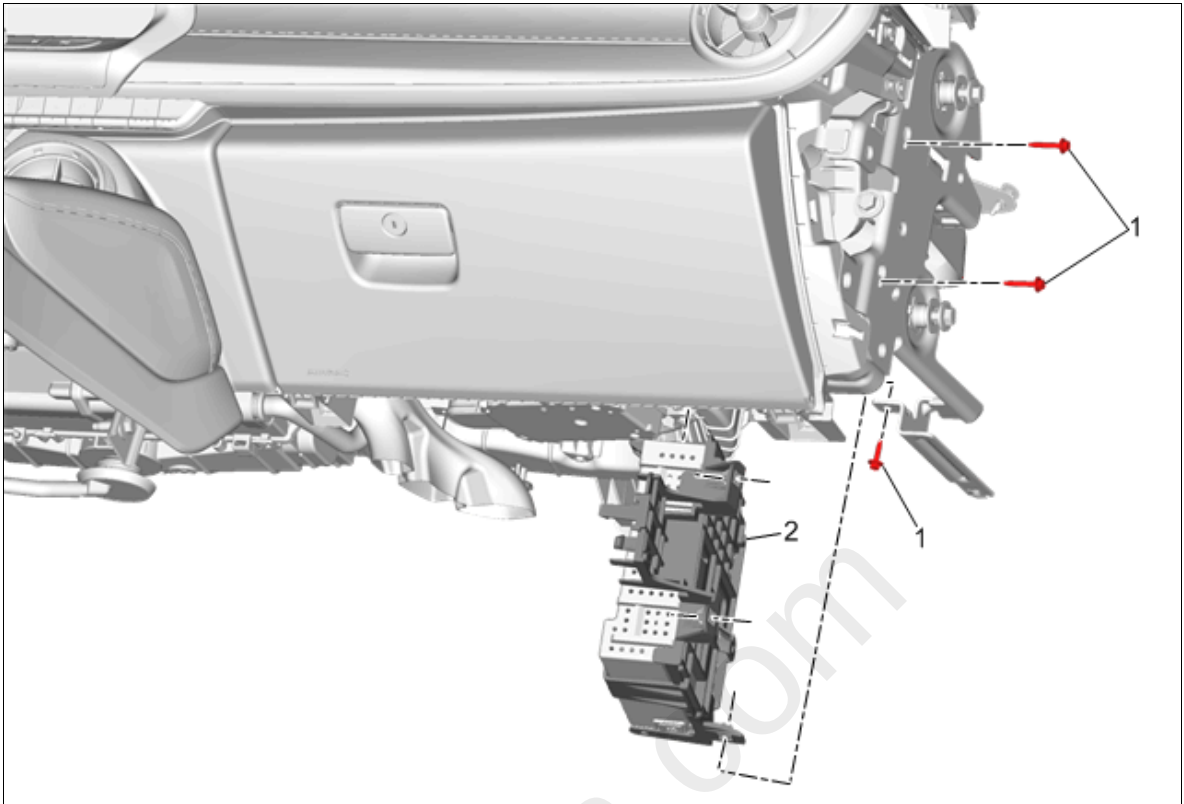
Fig 6: Instrument Panel Outer Air Outlet Duct



Courtesy of GENERAL MOTORS COMPANY

6. Remove Instrument Panel Outer Air Outlet Duct Replacement - Left Side (Outboard)Instrument Panel Outer Air Outlet Duct Replacement - Left Side (Inboard) (2).

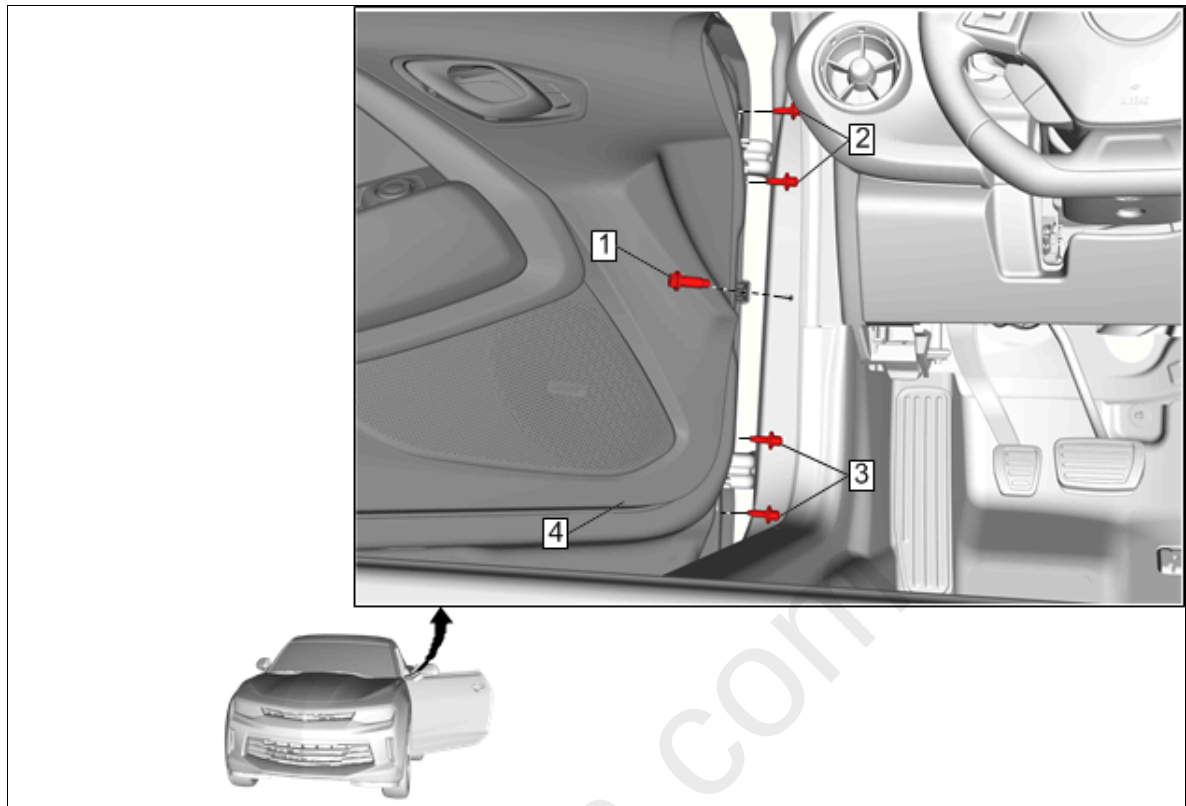
Fig 7: Radio Bracket



Courtesy of GENERAL MOTORS COMPANY

7. Remove Radio Bracket Replacement (2).

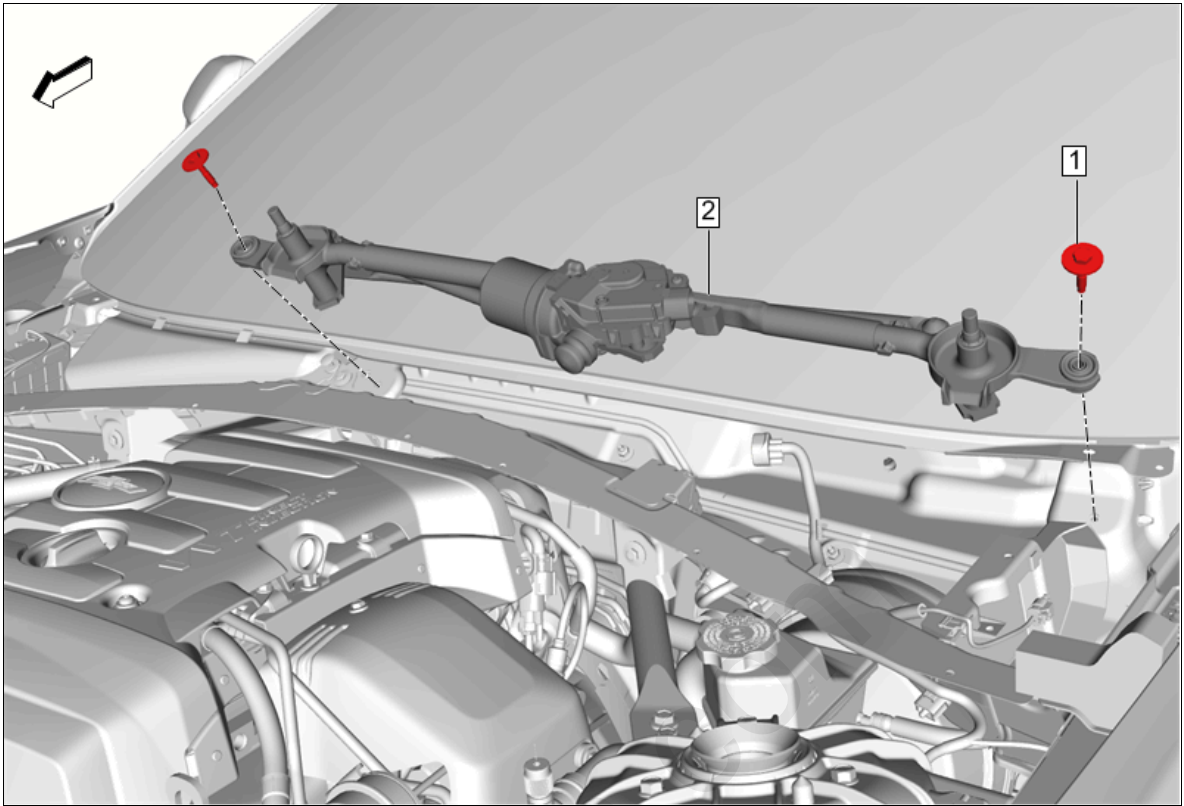
Fig 8: Front Side Door



Courtesy of GENERAL MOTORS COMPANY

8. Remove Front Side Door Replacement (4).

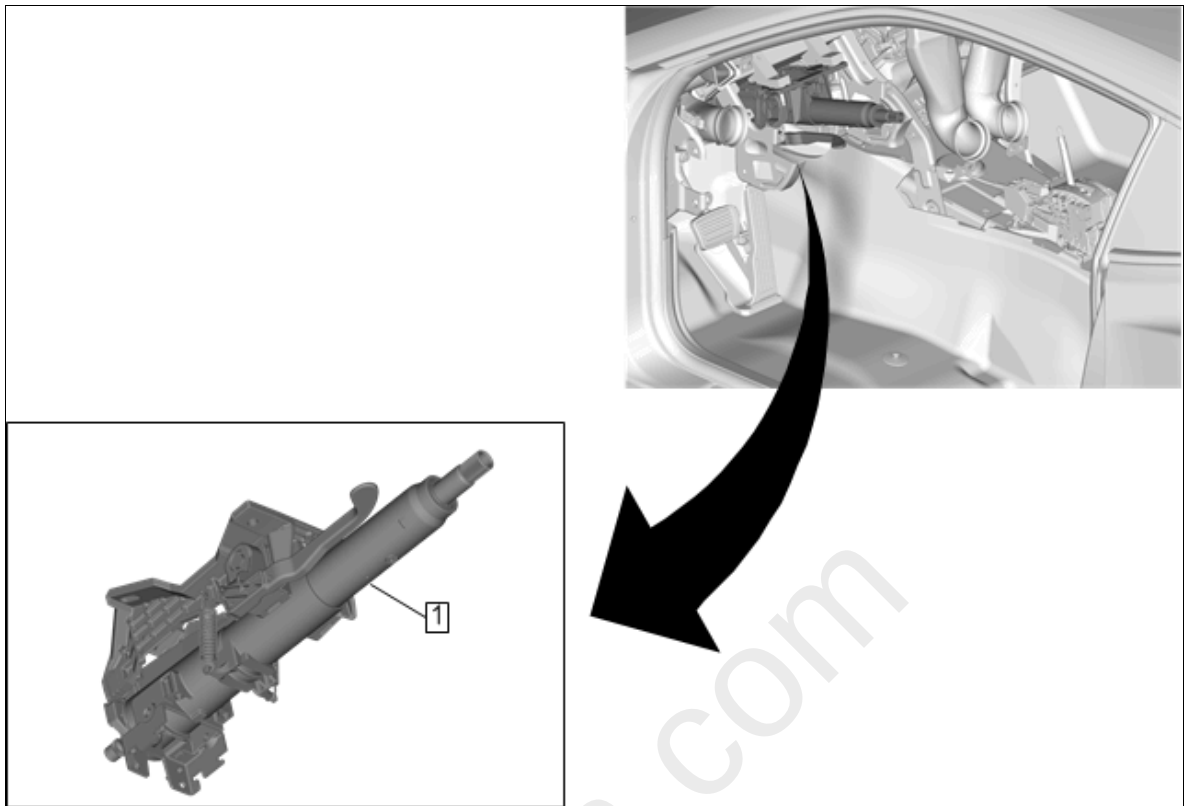
Fig 9: Windshield Wiper Transmission



Courtesy of GENERAL MOTORS COMPANY

9. Remove Windshield Wiper Transmission Replacement (2).

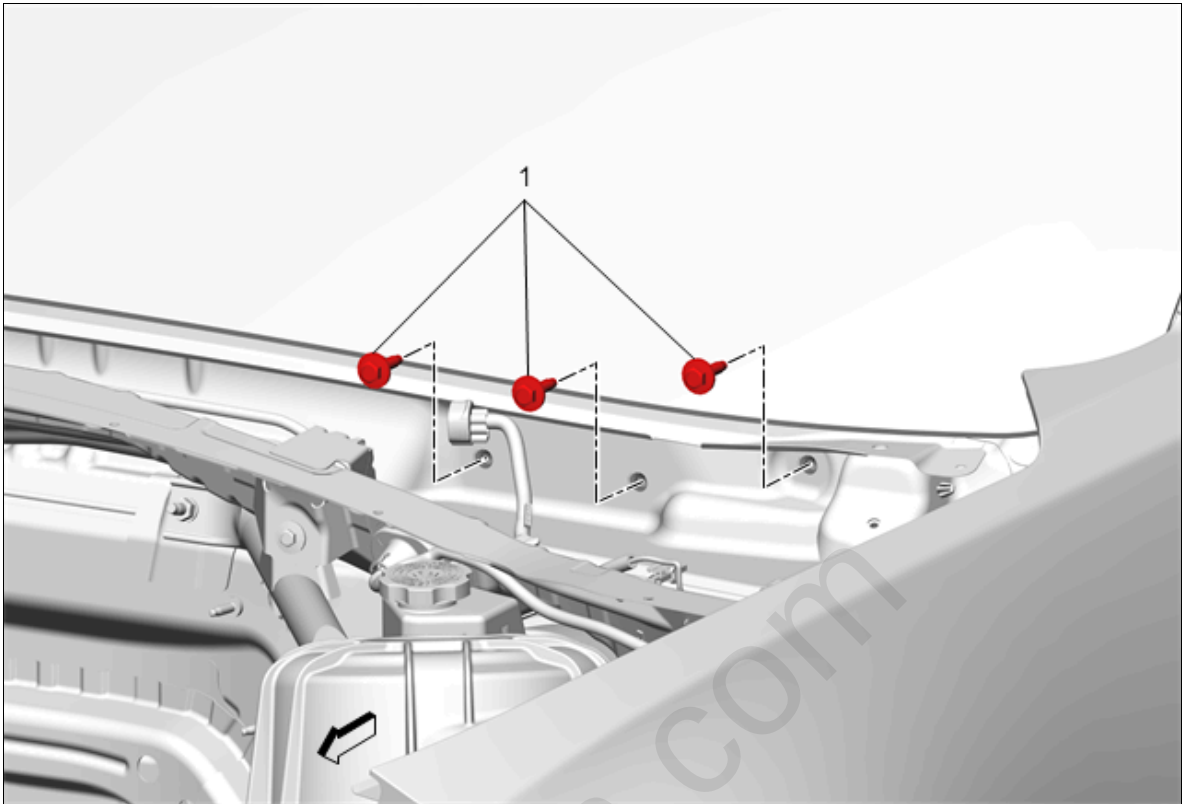
Fig 10: Steering Column



Courtesy of GENERAL MOTORS COMPANY

10. Remove Steering Column Replacement (1).

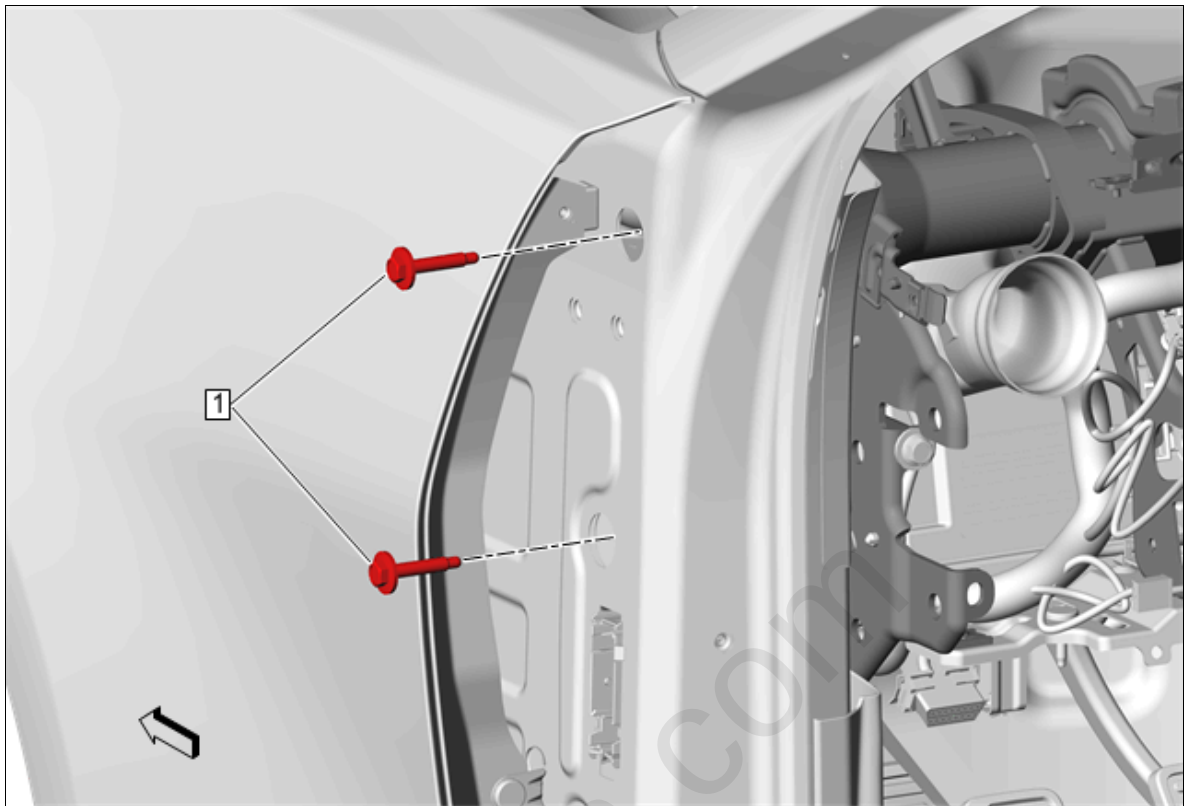
Fig 11: Instrument Panel Tie Bar Bolt



Courtesy of GENERAL MOTORS COMPANY

11. Remove Instrument Panel Tie Bar Bolt (1) (Qty: 3)

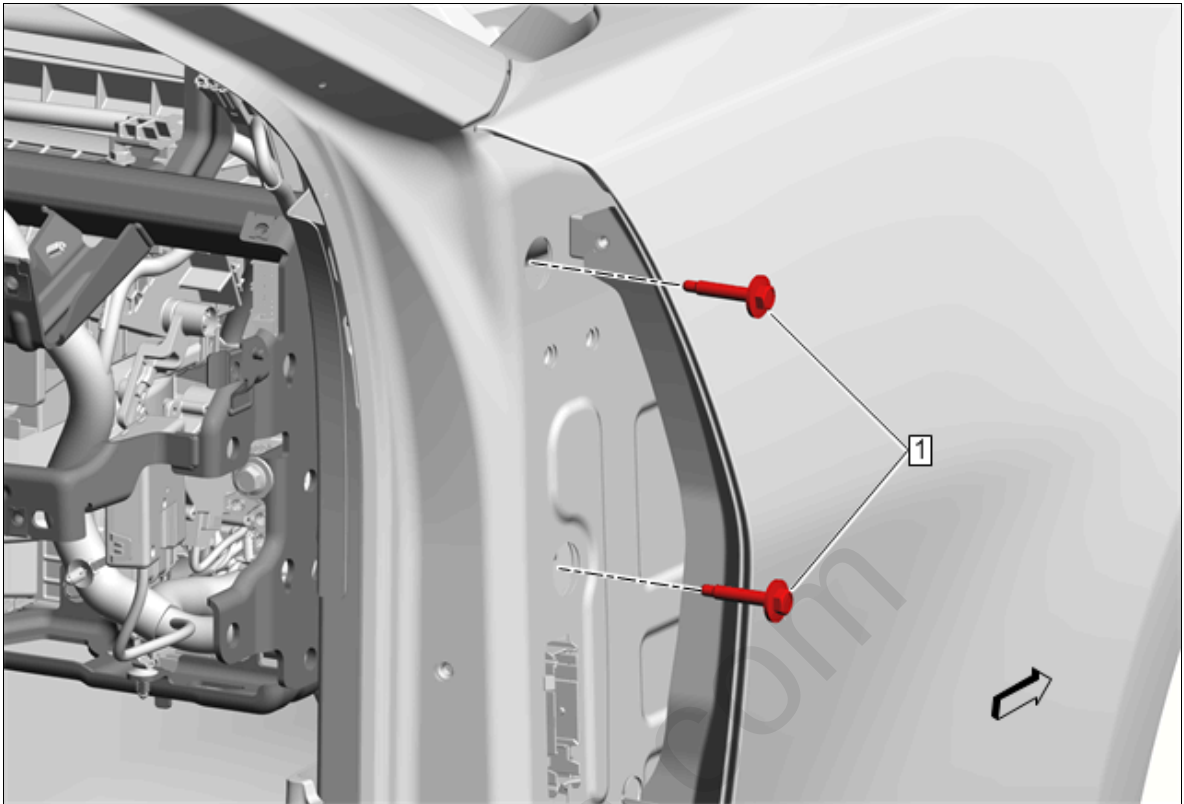
Fig 12: Instrument Panel Tie Bar Bolt



Courtesy of GENERAL MOTORS COMPANY

12. Remove Instrument Panel Tie Bar Bolt (1) (Qty: 2)

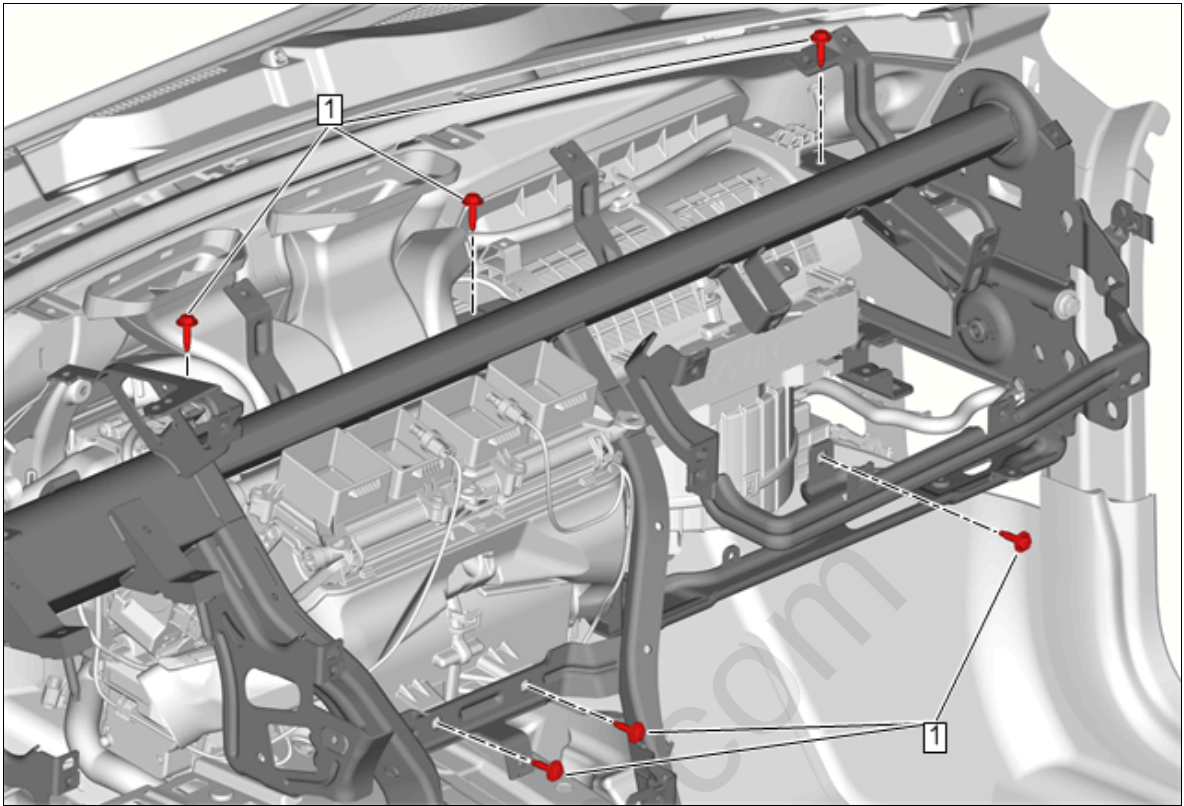
Fig 13: Instrument Panel Tie Bar Bolt



Courtesy of GENERAL MOTORS COMPANY

13. Remove Instrument Panel Tie Bar Bolt (1) (Qty: 2)

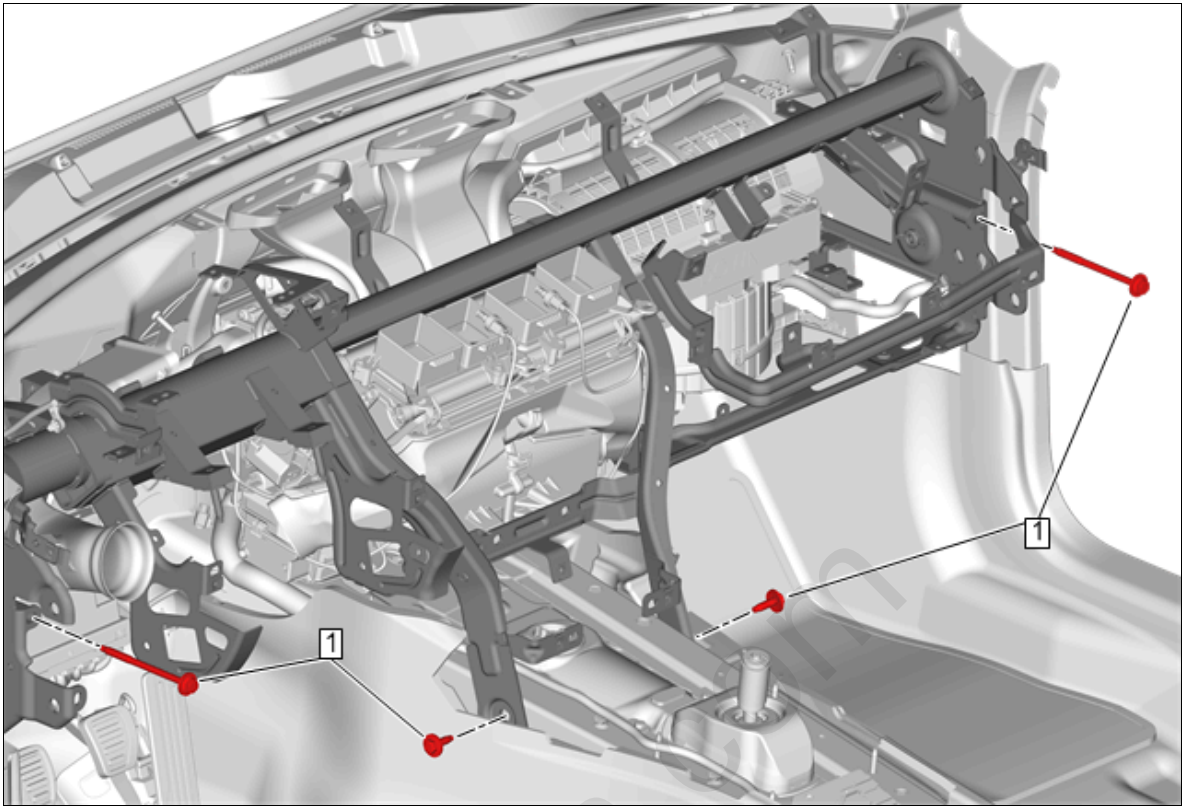
Fig 14: Heater and Air Conditioning Evaporator and Blower Module Bolt



Courtesy of GENERAL MOTORS COMPANY

14. Remove Heater and Air Conditioning Evaporator and Blower Module Bolt (1) (Qty: 6)

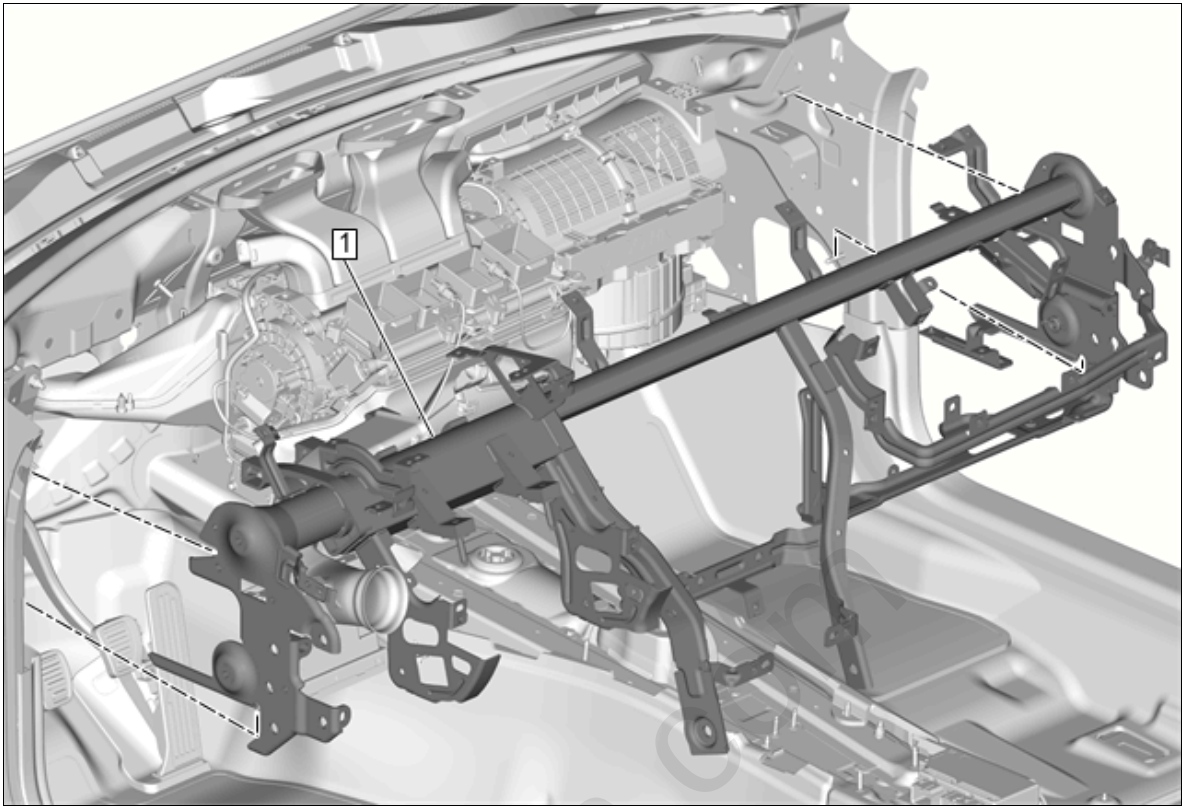
Fig 15: Instrument Panel Tie Bar Bolt



Courtesy of GENERAL MOTORS COMPANY

15. Remove Instrument Panel Tie Bar Bolt (1) (Qty: 4)

Fig 16: Instrument Panel Tie Bar Assembly



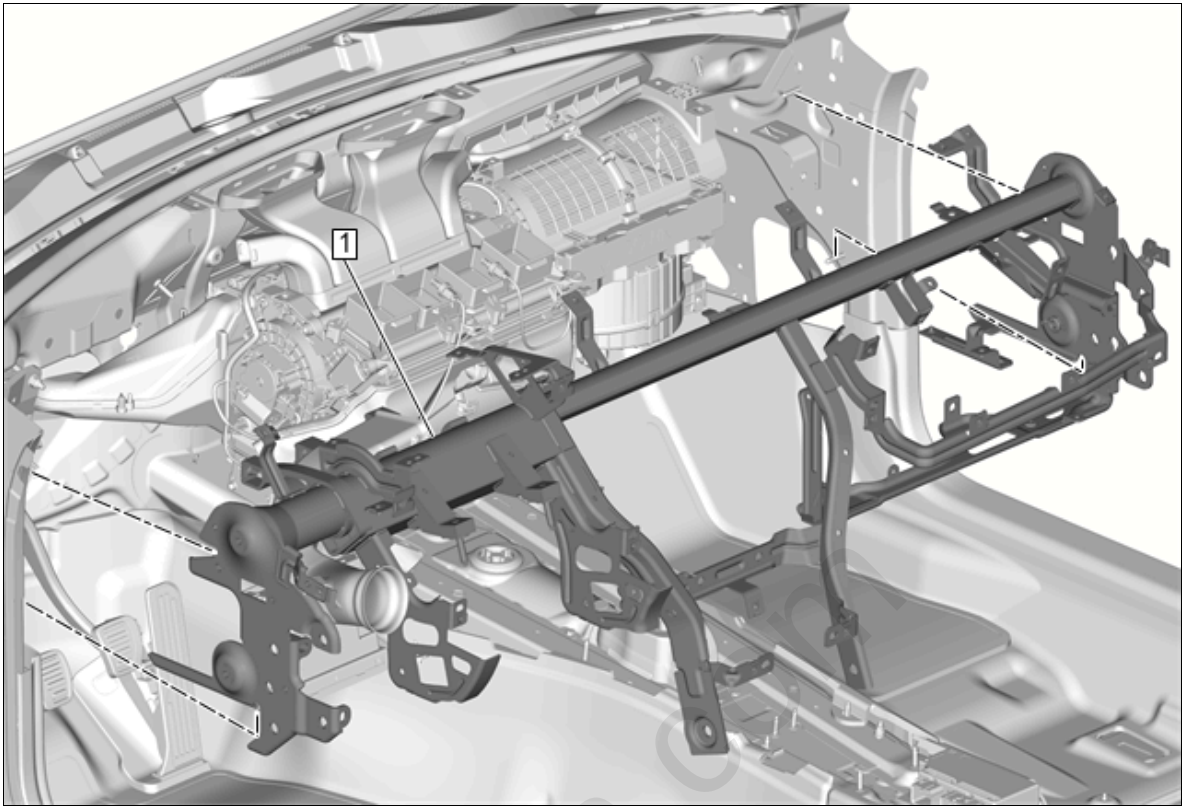
Courtesy of GENERAL MOTORS COMPANY

16. Note the location and routing of the instrument panel wiring harness prior to removal to ensure proper installation.
17. Remove Body Control Module Bracket - Body Control Module Bracket Replacement
18. Disconnect the electrical connectors.
19. Support the HVAC module in order to prevent damage.
20. With the aid of an assistant, remove the instrument panel tie bar assembly from the vehicle (1).
21. Transfer components as necessary.

REPAIR INSTRUCTIONS > INSTRUMENT PANEL TIE BAR REPLACEMENT > INSTALLATION PROCEDURE

1. With the aid of an assistant, position the instrument panel tie bar assembly into the vehicle.
2. Install the instrument panel wiring harness assembly to the position noted in the removal procedure.
3. Connect the electrical connectors.
4. Install Body Control Module Bracket - Body Control Module Bracket Replacement

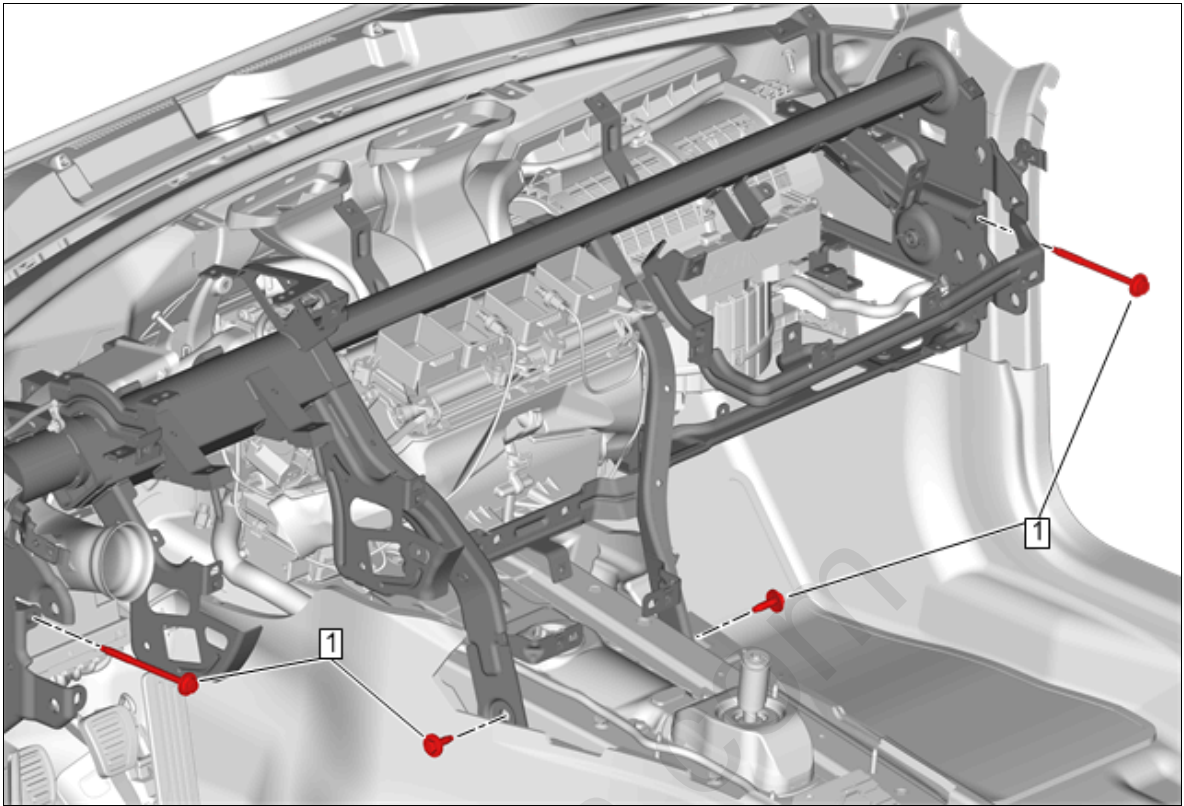
Fig 1: Instrument Panel Tie Bar



Courtesy of GENERAL MOTORS COMPANY

5. Install Instrument Panel Tie Bar (1)

Fig 2: Instrument Panel Tie Bar Bolt



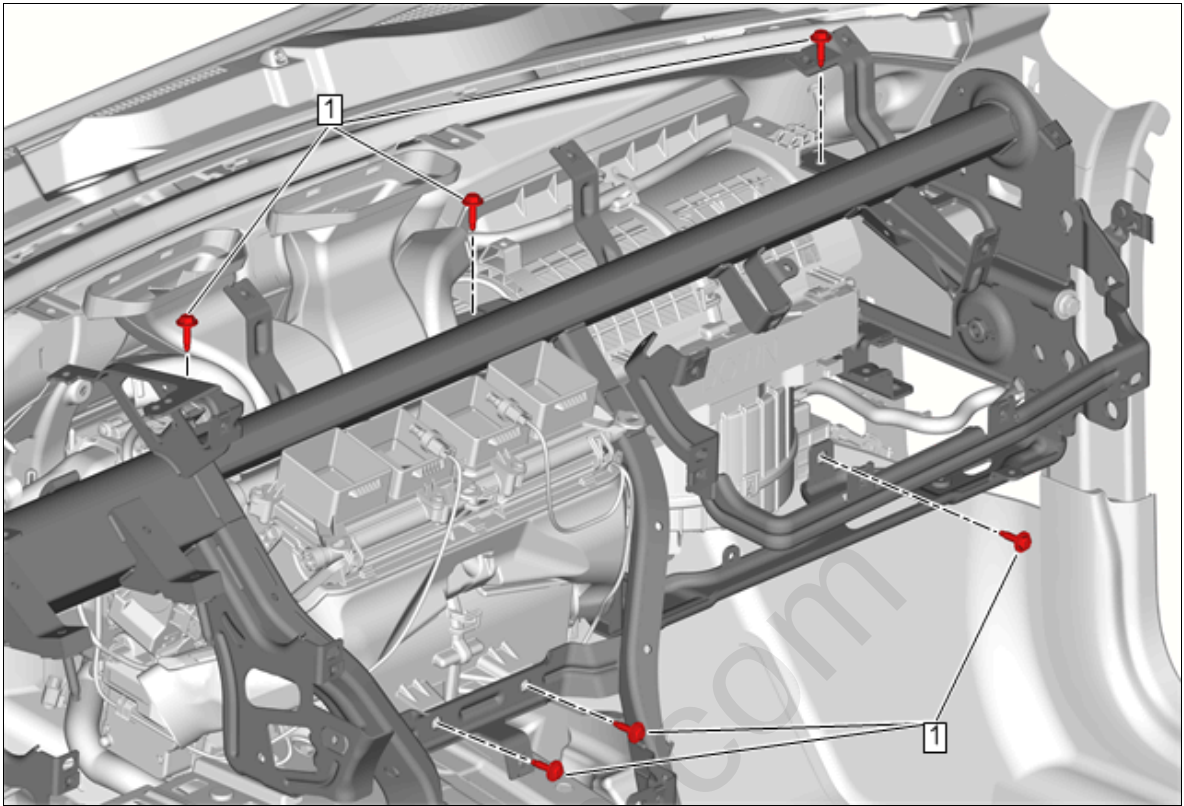
Courtesy of GENERAL MOTORS COMPANY

 **CAUTION:**

Refer to Fastener Caution .

6. Install Instrument Panel Tie Bar Bolt (1) (Qty: 4) and tighten to 22 N.m (16 lb ft)

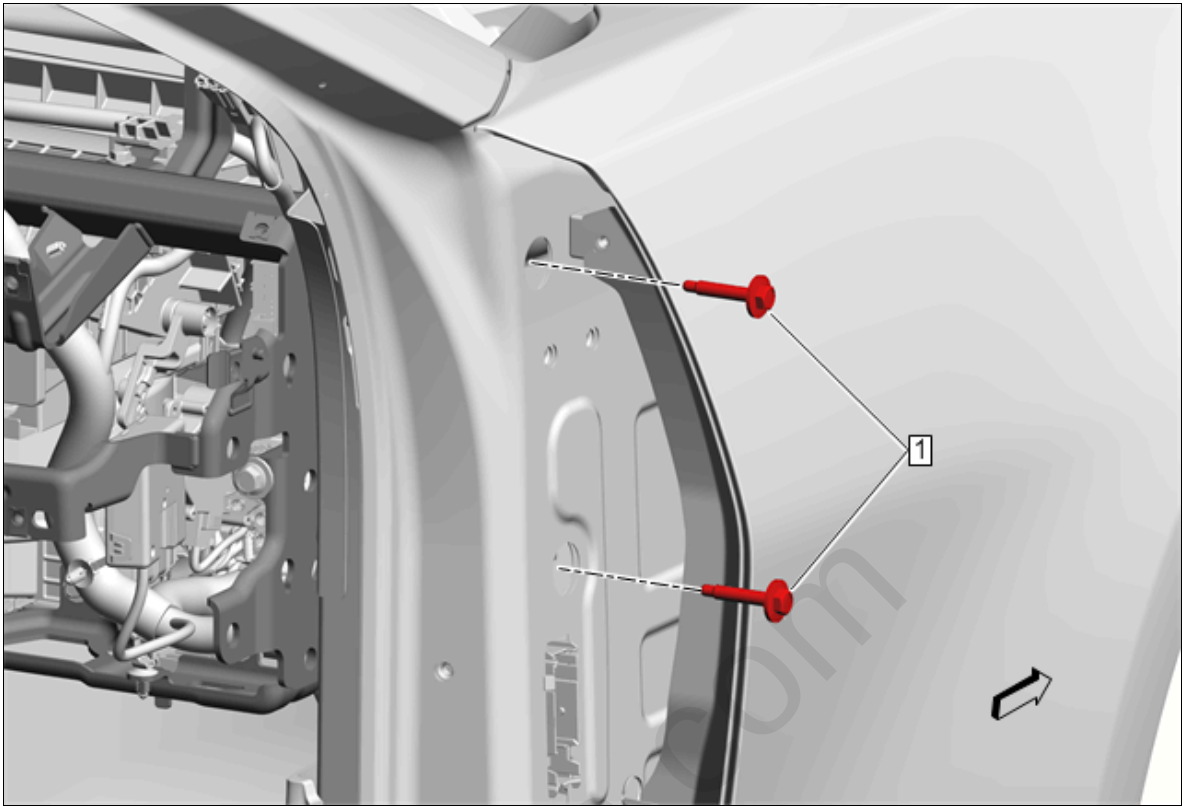
Fig 3: Heater and Air Conditioning Evaporator and Blower Module Bolt



Courtesy of GENERAL MOTORS COMPANY

7. Install Heater and Air Conditioning Evaporator and Blower Module Bolt (1) (Qty: 6) and tighten to 9 N.m (80 lb in)

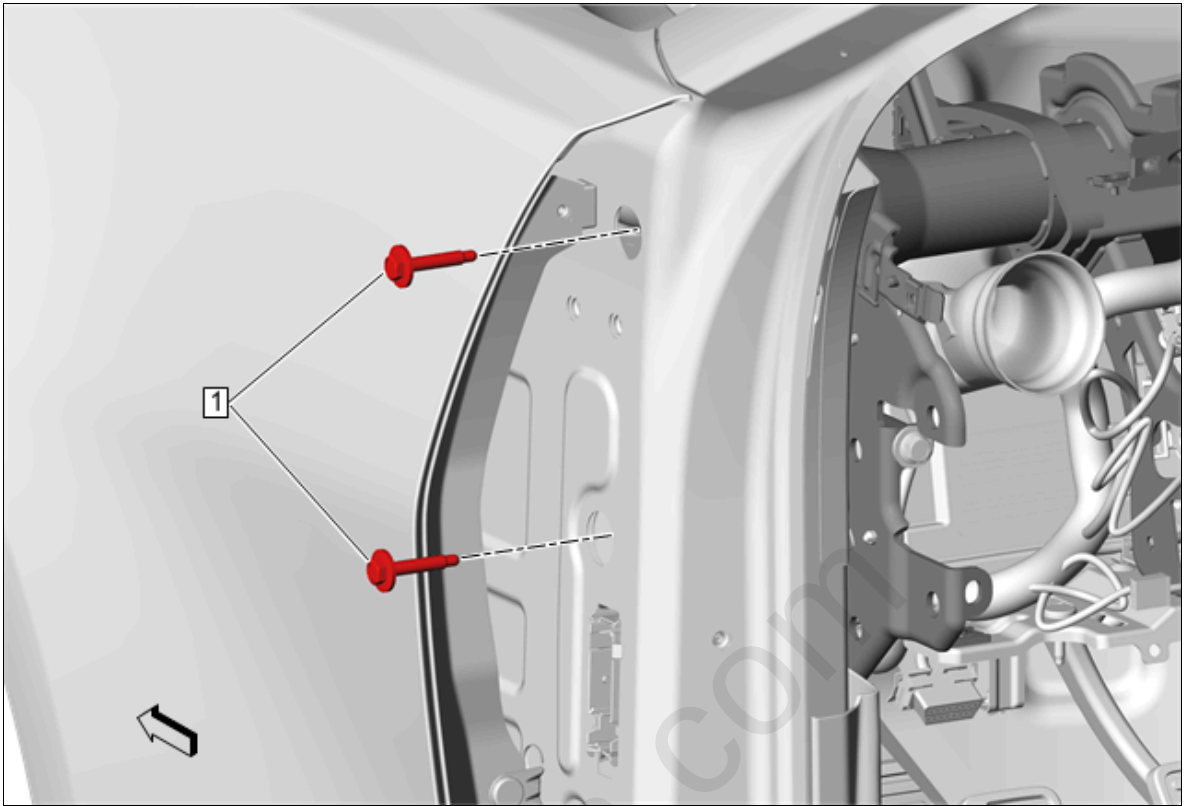
Fig 4: Instrument Panel Tie Bar Bolt



Courtesy of GENERAL MOTORS COMPANY

8. Install Instrument Panel Tie Bar Bolt (1) (Qty: 2) and tighten to 22 N.m (16 lb ft)

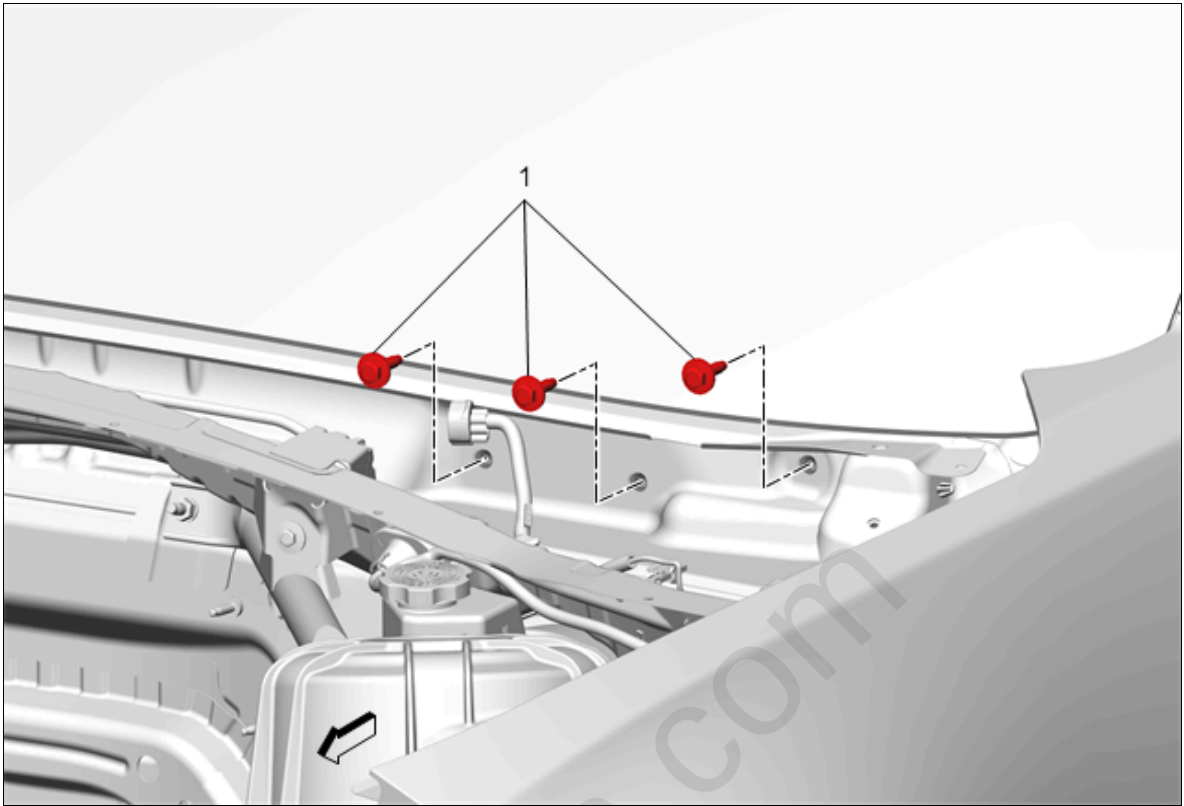
Fig 5: Instrument Panel Tie Bar Bolt



Courtesy of GENERAL MOTORS COMPANY

9. Install Instrument Panel Tie Bar Bolt (1) (Qty: 2) and tighten to 22 N.m (16 lb ft)

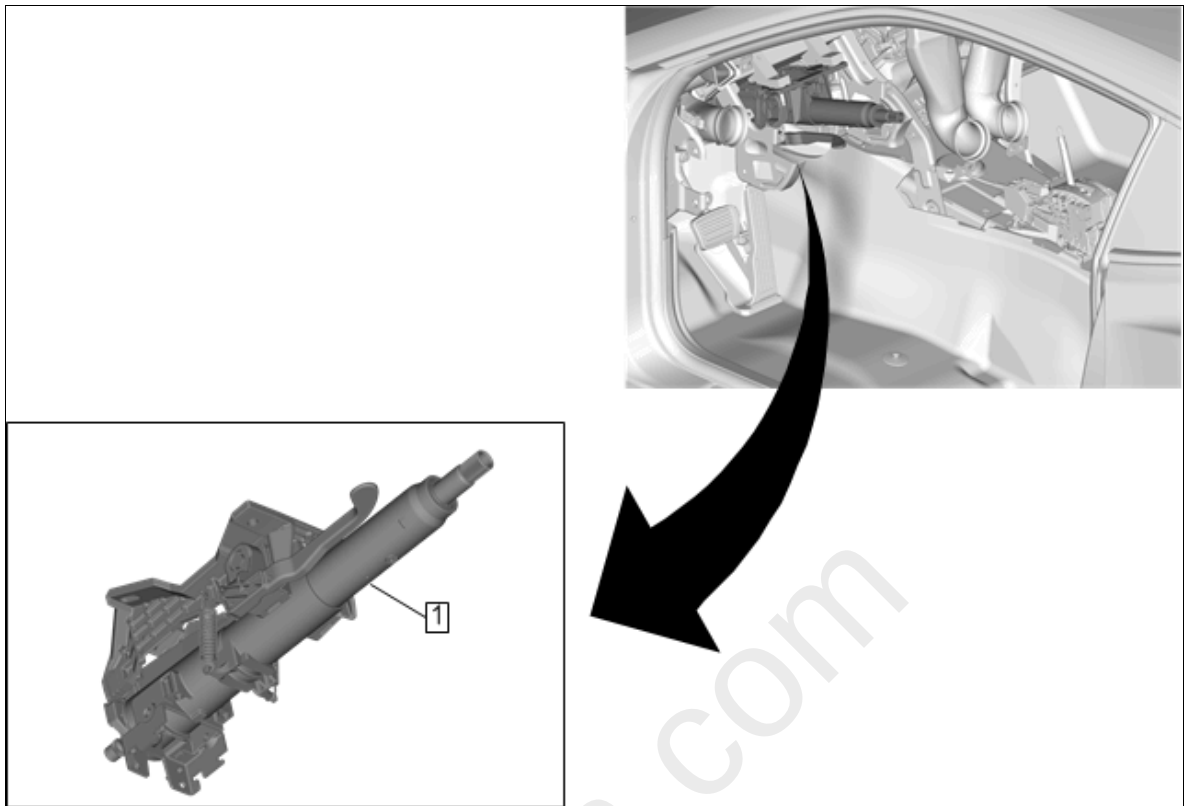
Fig 6: Instrument Panel Tie Bar Bolt



Courtesy of GENERAL MOTORS COMPANY

10. Install Instrument Panel Tie Bar Bolt (1) (Qty: 3) and tighten to 22 N.m (16 lb ft)

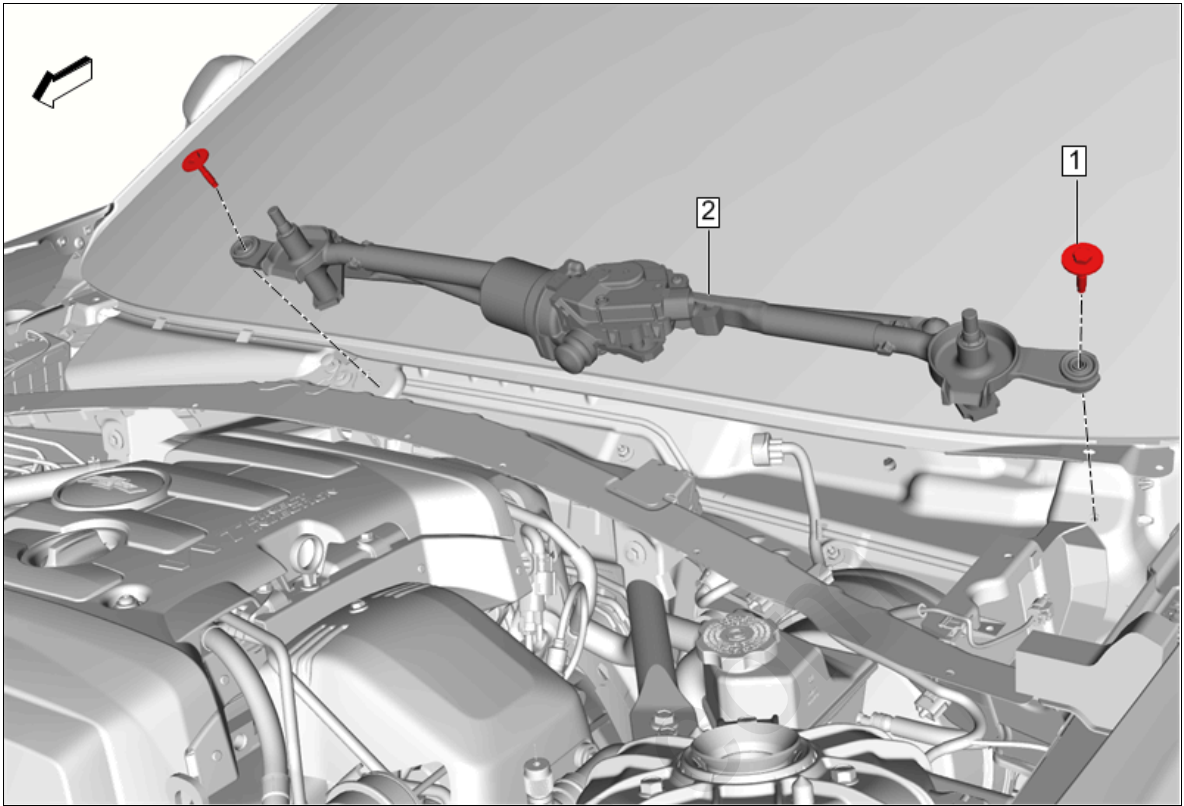
Fig 7: Steering Column



Courtesy of GENERAL MOTORS COMPANY

11. Install Steering Column Replacement (1).

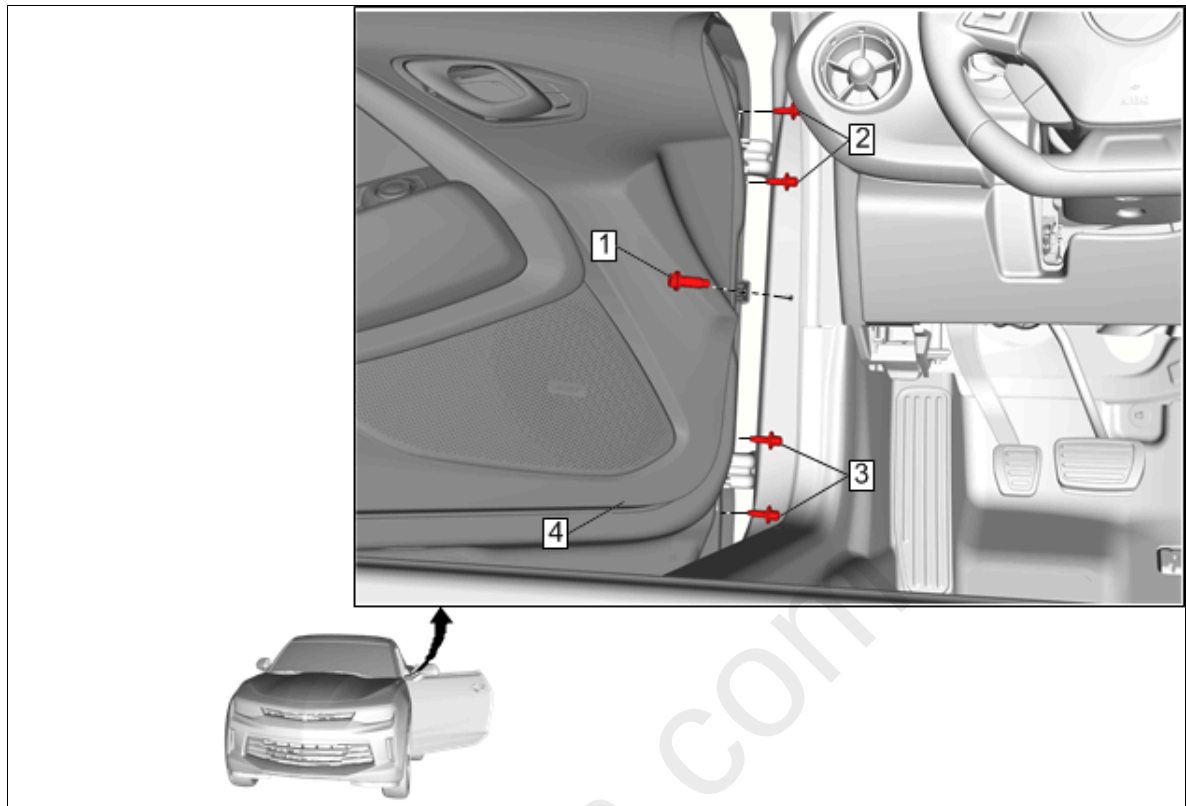
Fig 8: Windshield Wiper Transmission



Courtesy of GENERAL MOTORS COMPANY

12. Install Windshield Wiper Transmission Replacement (2).

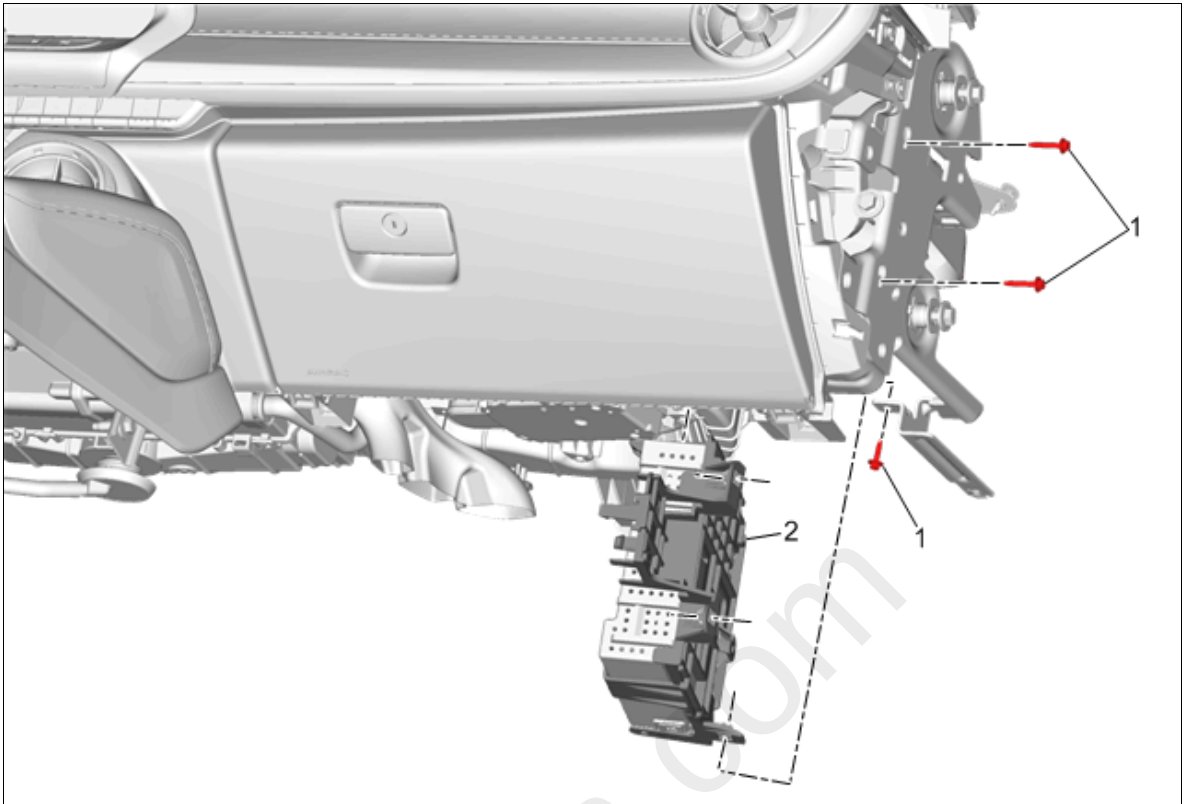
Fig 9: Front Side Door



Courtesy of GENERAL MOTORS COMPANY

13. Install Front Side Door Replacement (4).

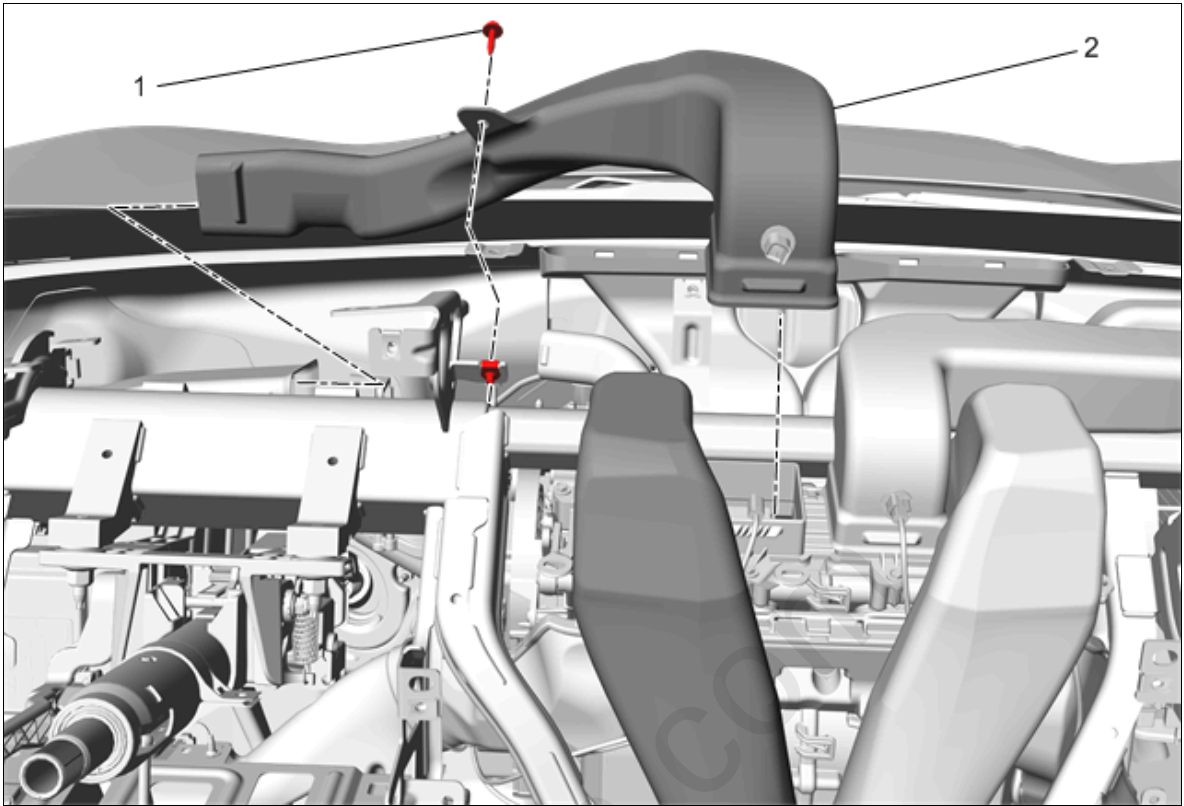
Fig 10: Radio Bracket



Courtesy of GENERAL MOTORS COMPANY

14. Install Radio Bracket Replacement (2).

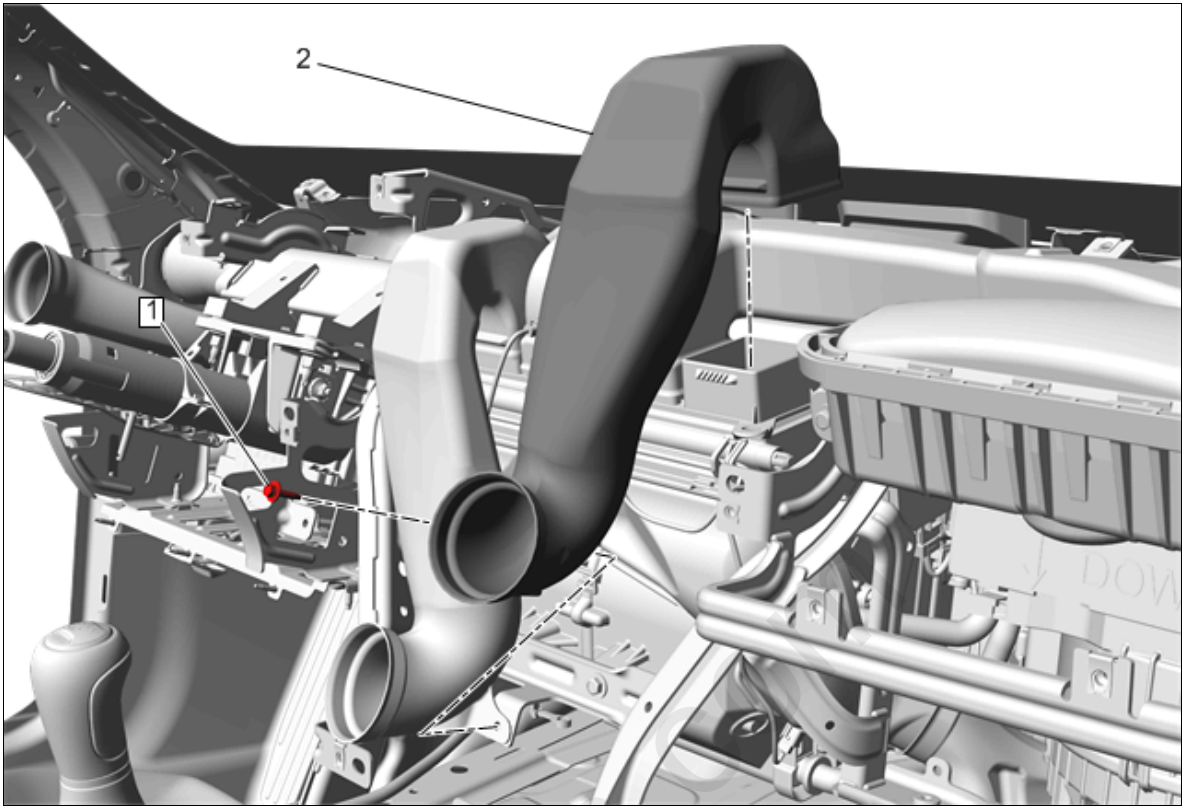
Fig 11: Instrument Panel Outer Air Outlet Duct



Courtesy of GENERAL MOTORS COMPANY

15. Install Instrument Panel Outer Air Outlet Duct Replacement - Left Side (Outboard)Instrument Panel Outer Air Outlet Duct Replacement - Left Side (Inboard) (2).

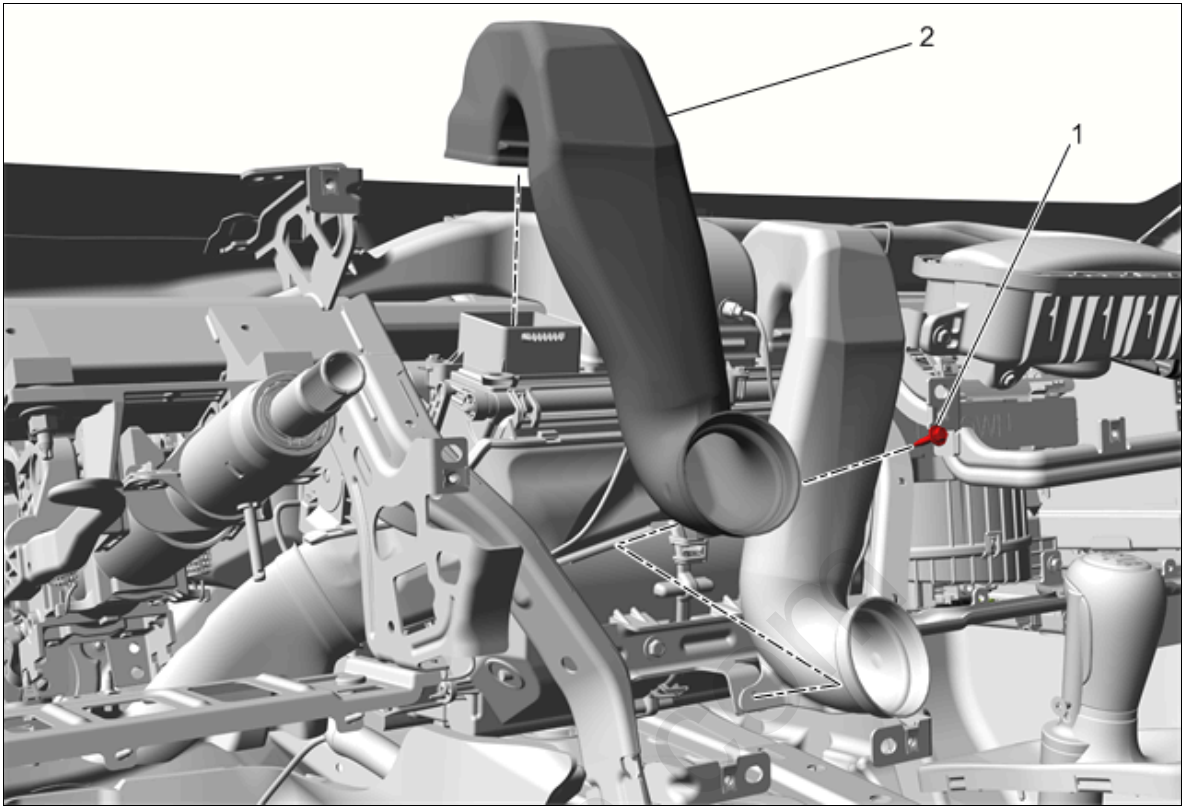
Fig 12: Instrument Panel Center Air Outlet Duct



Courtesy of GENERAL MOTORS COMPANY

16. Install Instrument Panel Center Air Outlet Duct Replacement (Left Side)Instrument Panel Center Air Outlet Duct Replacement (Right Side) (2).

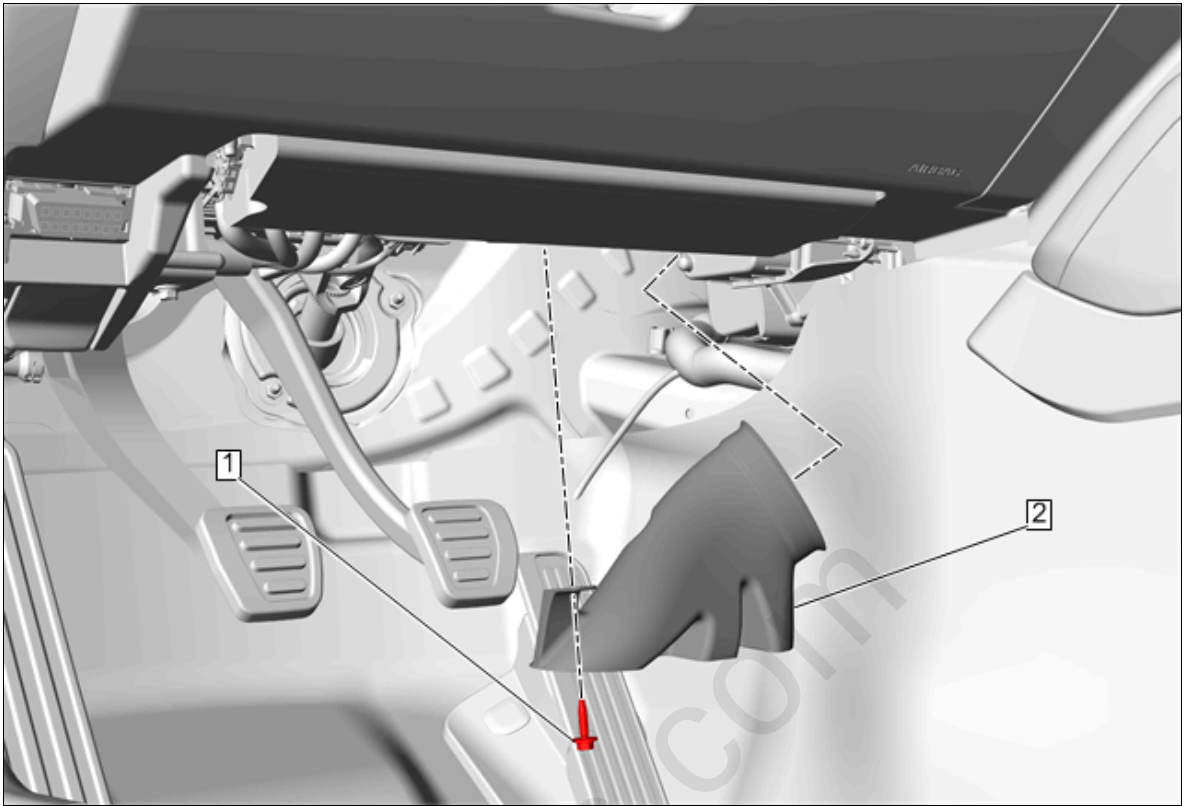
Fig 13: Instrument Panel Center Air Outlet Duct



Courtesy of GENERAL MOTORS COMPANY

17. Install Instrument Panel Center Air Outlet Duct Replacement (Left Side)Instrument Panel Center Air Outlet Duct Replacement (Right Side) (2).

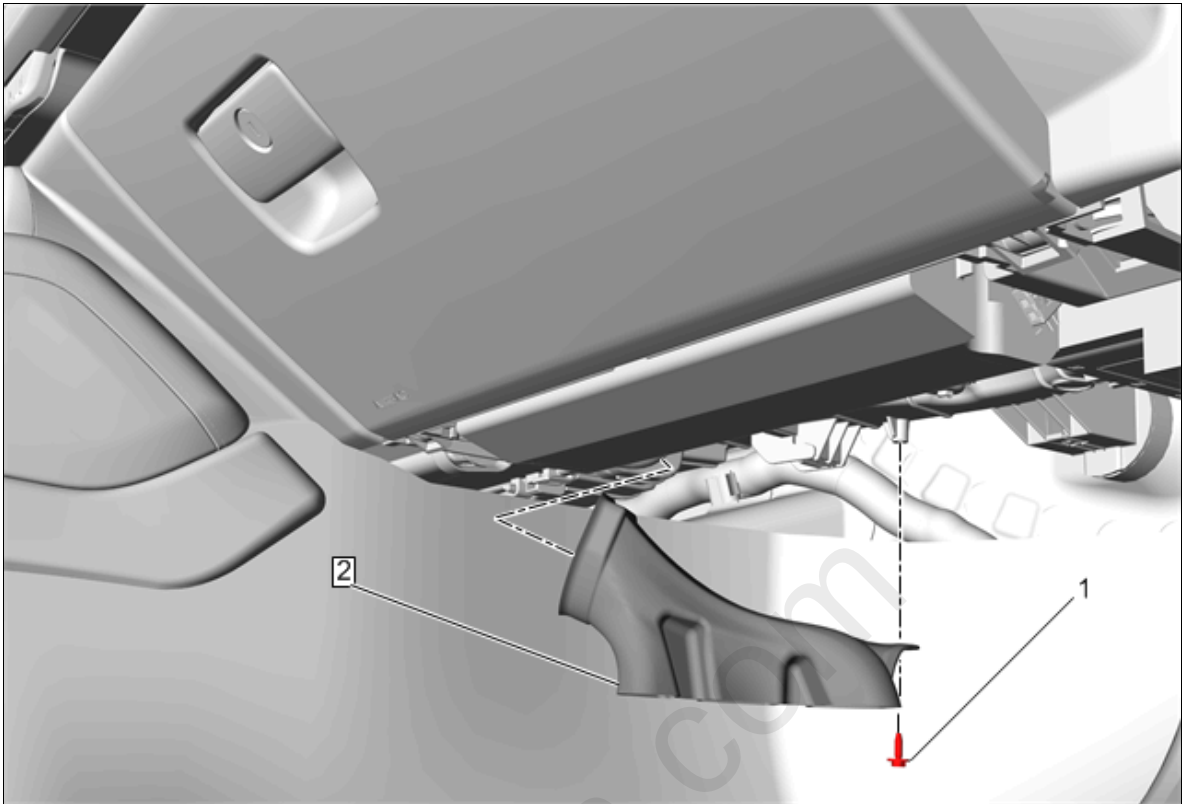
Fig 14: Floor Front Air Outlet Duct



Courtesy of GENERAL MOTORS COMPANY

18. Install Floor Front Air Outlet Duct Replacement - Left Side (2).

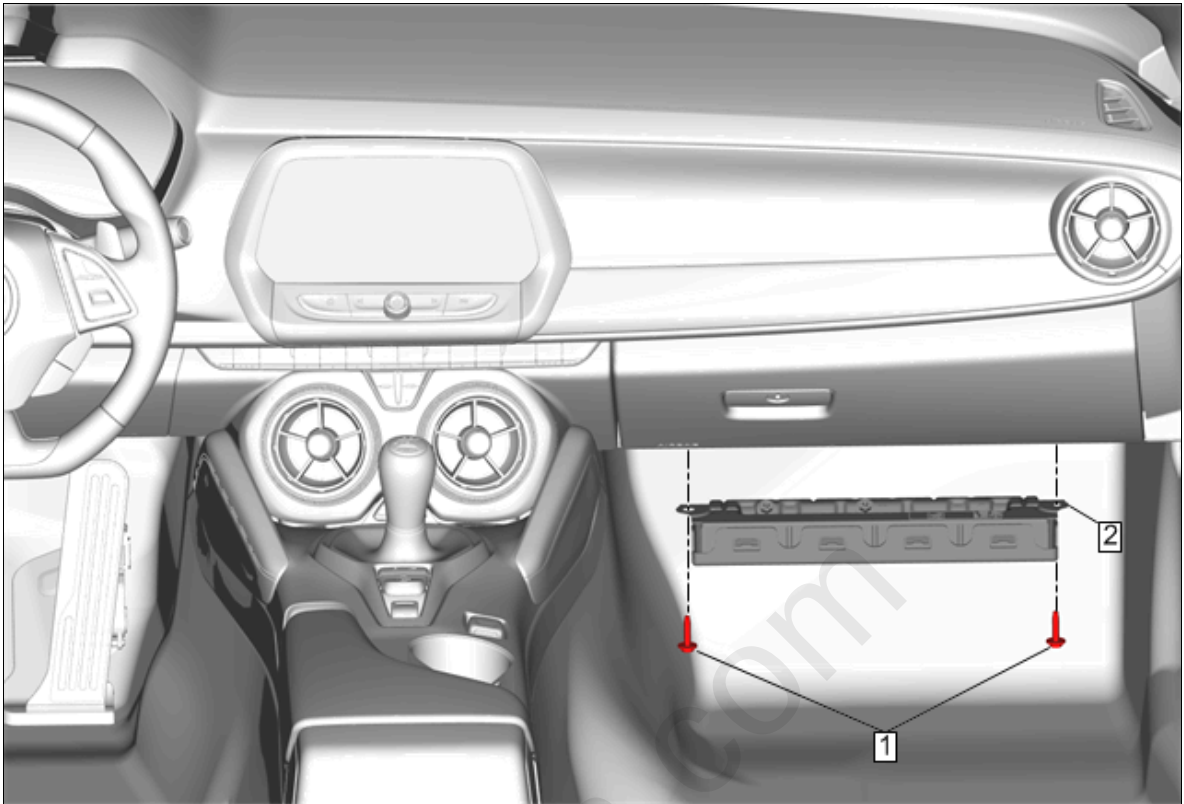
Fig 15: Floor Front Air Outlet Duct



Courtesy of GENERAL MOTORS COMPANY

19. Install Floor Front Air Outlet Duct Replacement - Right Side (2).

Fig 16: Instrument Panel Lower Airbag



Courtesy of GENERAL MOTORS COMPANY

20. Install Instrument Panel Lower Airbag Replacement - Passenger Side (2).

REPAIR INSTRUCTIONS > WIRE TO WIRE REPAIR - INSTRUMENT PANEL AND CONSOLE

Special Tools

- **EL-38125-10** Splice Sleeve Crimping Tool (non GMNA)
- **J-38125-5A** Ultra Torch Special Tool
- **J-38125-8** Splice Sleeve Crimping Tool (GMNA)

For equivalent regional tools, refer to Special Tools .

WARNING:

In order to reduce the risk of personal injury, loss of high voltage isolation to ground and higher system impedance, do not attempt to repair any HV wiring, connector, or terminal that is damaged. High voltage coaxial type cables are not repairable. Never attempt to repair a coaxial type cable. The entire cable/harness or component must be replaced. In order to maintain system integrity and personal safety, never attempt to repair any high voltage wiring, cables, or terminals. Performing this procedure on high voltage circuits may result in

serious injury or death.



NOTE:

If the wiring harness internal to the transmission is damaged, the wiring harness must be replaced. The use of splice sleeves in an attempt to repair the internal transmission wires, connectors, or terminals could result in performance issues.



NOTE:

Do not splice wires in Door Harness Grommets.



NOTE:

The DuraSeal splice sleeves have the following 2 critical features:

- A special heat shrink sleeve environmentally seals the splice. The heat shrink sleeve contains a sealing adhesive inside.*
- A cross hatched (knurled) core crimp provides the necessary low resistance contact integrity for these sensitive, low energy circuits.*

Use only DuraSeal splice sleeves to form a one-to-one splice on all types of insulation except high voltage and specialty cables. Use DuraSeal splice sleeves where there are special requirements such as moisture sealing. Follow the instructions below in order to splice copper wire using DuraSeal splice sleeves.

Splice Sleeve Selection

Splice Sleeve Color	Crimp Tool Nest Color		Wire Gauge mm ² / (AWG)
	3 Crimp Nests	4 Crimp Nests	
Salmon (Yellow-Pink) 19300089	Red (1) or Red/Green (1)	Red (2)	0.22-0.8/(18-26)
Blue 19168447	Blue (2)	Blue (3)	1.0-2.0/(14-16)
Yellow 19168448	Yellow (3)	Yellow (4)	3.0-5.0/(10-12)



NOTE:

You must perform the following procedures in the listed order. Repeat the procedure if any wire strands are damaged. You must obtain a clean strip with all of the wire strands intact.

1. Open the harness by removing any tape:

1. Use a sewing seam ripper, available from sewing supply stores, in order to cut open the harness in order to avoid wire insulation damage.
2. Use the DuraSeal splice sleeves on all types of insulation except Tefzel and coaxial.
3. Do not use the crimp and DuraSeal splice sleeve to form a splice with more than 2 wires coming together.

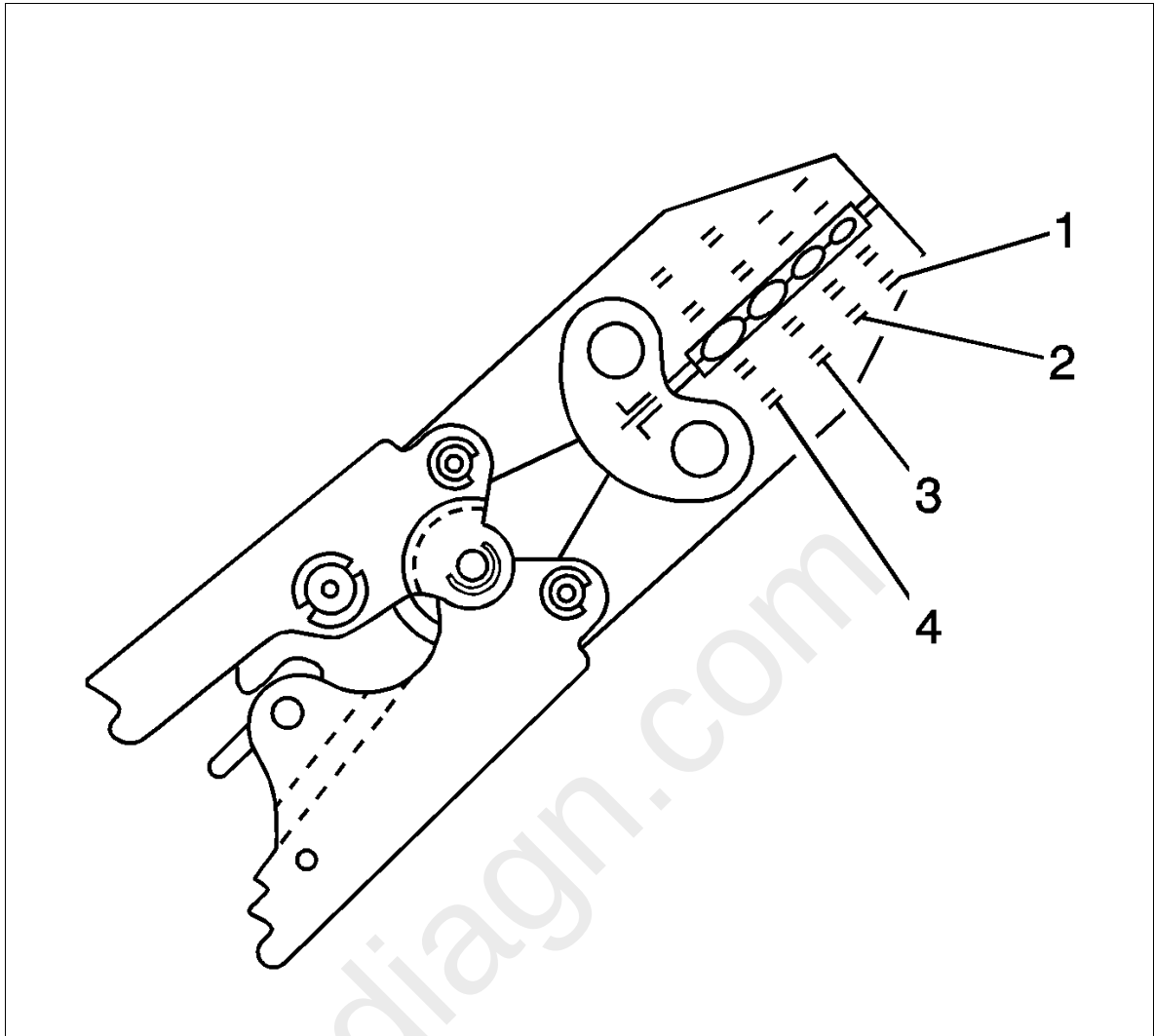
2. Cut as little wire off the harness as possible. You may need the extra length of wire in order to change the location of a splice.

Adjust splice locations so that each splice is at least 40 mm (1.5 in) away from the other splices, harness branches, or connectors.

3. Strip the insulation:

1. When adding a length of wire to the existing harness, use the same size wire as the original wire.
 2. Perform one of the following items in order to find the correct wire size:
 1. Find the wire on the schematic and convert to regional wiring gauge size.
 2. If you are unsure of the wire size, begin with the largest opening in the wire stripper and work down until achieving a clean strip of the insulation.
 3. Strip approximately 5.0 mm (0.20 in) of insulation from each wire to be spliced.
 4. Do not nick or cut any of the strands. Inspect the stripped wire for nicks or cut strands.
 5. If the wire is damaged, repeat this procedure after removing the damaged section.
4. For high temperature wiring, slide a section of high temperature SCT1 shrink tubing down the length of wire to be spliced. Ensure that the shrink tubing will not interfere with the splice procedure.
5. Select the proper DuraSeal splice sleeve according to the wire size. Refer to the above table at the beginning of the repair procedure for the color coding of the DuraSeal splice sleeves and the crimp tool nests.

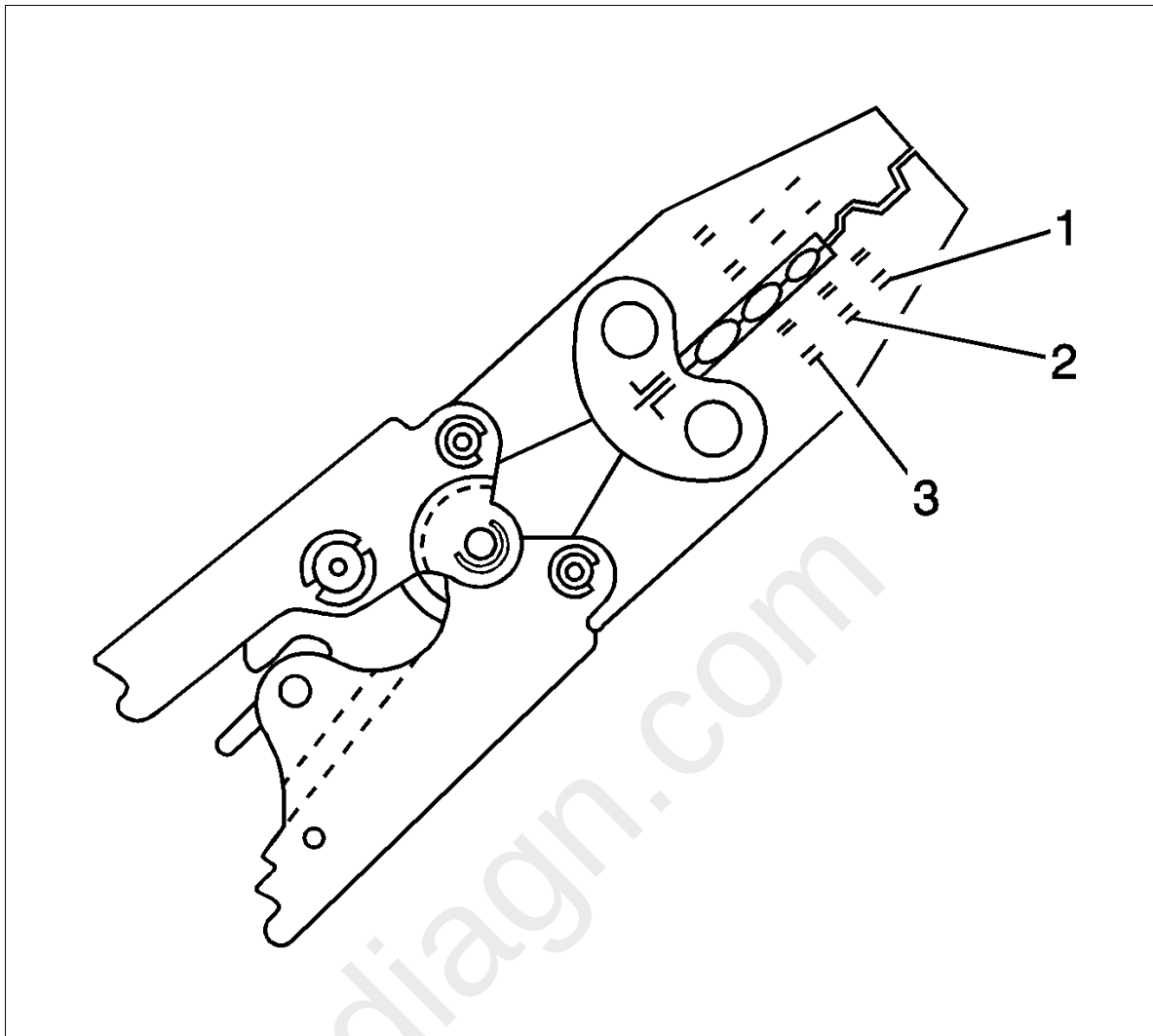
Fig 1: Crimping Tool



Courtesy of GENERAL MOTORS COMPANY

6. The **EL-38125-10** splice sleeve crimping tool has four crimp nests. The largest crimp nest (4) is used for crimping 10 and 12 gauge wires. The second largest crimp nest (3) is used for crimping 14 and 16 gauge wires. The third largest crimp nest (2) is used for crimping 18 and 20 gauge wires. The smallest crimp nest (1) is used for crimping 22 to 26 gauge wires. The crimp nests are referenced in the table (farther above) under the crimp tool nest color.

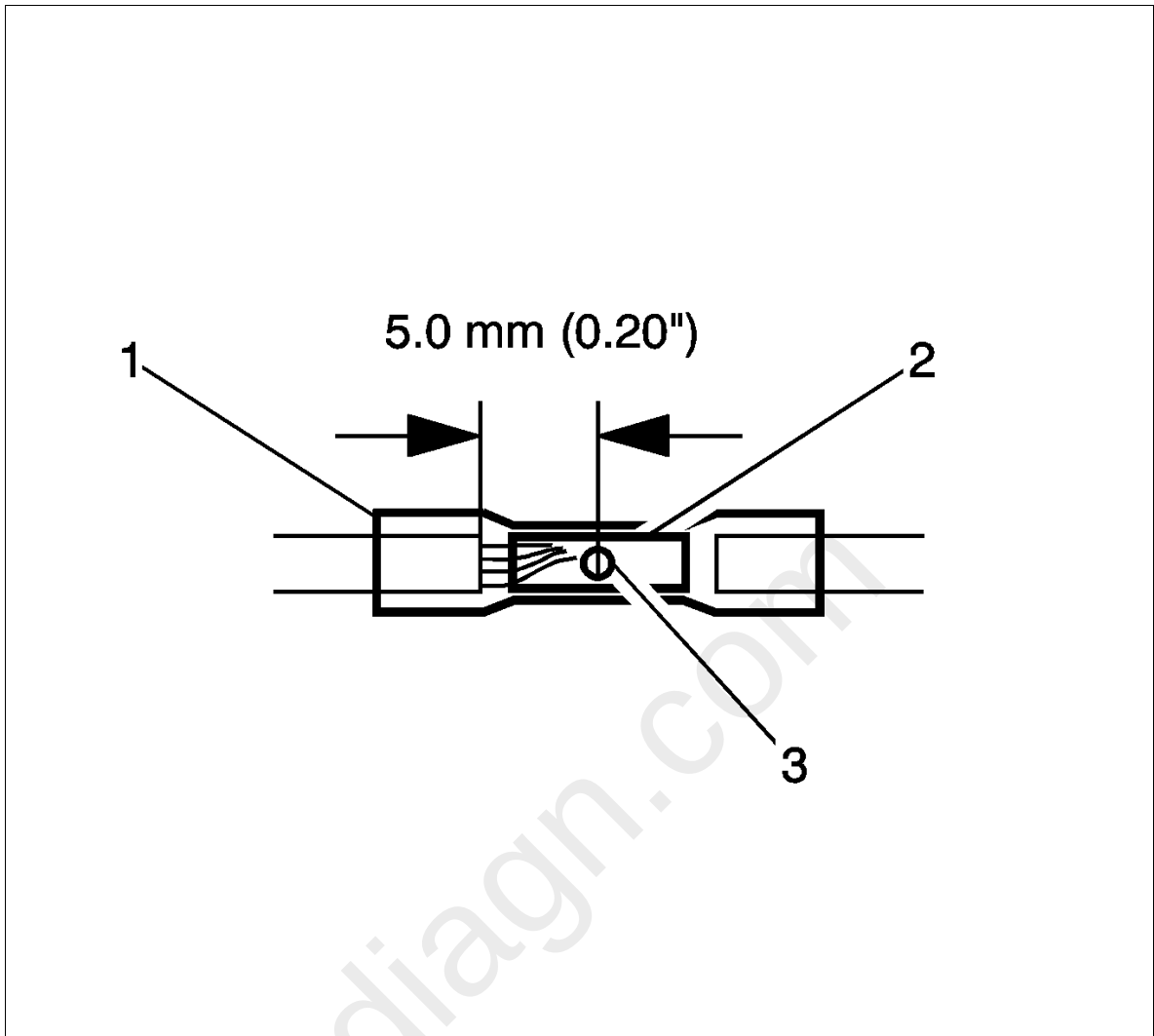
Fig 2: Splice Crimp Tool Nests Terminal Identification



Courtesy of GENERAL MOTORS COMPANY

7. The **J-38125-8** splice sleeve crimping tool has three crimp nests. The largest crimp nest (3) is used for crimping 10 and 12 gauge wires. The second largest crimp nest (2) is used for crimping 14 and 16 gauge wires. The smallest crimp nest (1) is used for crimping 18 to 20 gauge wires. The crimp nests are referenced in the table (farther above) under the crimp tool nest color.
8. Use the splice sleeve crimp tool in order to position the DuraSeal splice sleeve in the proper color nest of the splice sleeve crimp tool. For the four crimp nest tool, use the three largest crimp nests to crimp the splice sleeves. For the three crimp nest tool, use all three crimp nests to crimp the splice sleeves. Use the four and three crimp tool diagrams (above) and the table (farther above) to match the splice sleeve with the correct crimp nest. The crimp tool diagram callout numbers match the numbers in the table (under crimp tool nest color).

Fig 3: Duraseal Splice Sleeve



Courtesy of GENERAL MOTORS COMPANY

9. Place the DuraSeal splice sleeve in the nest. Ensure that the crimp falls midway between the end of the barrel and the stop. The sleeve has a stop (3) in the middle of the barrel (2) in order to prevent the wire (1) from going further. Close the hand crimper handles slightly in order to firmly hold the DuraSeal splice sleeve in the proper nest.

Fig 4: Crimped Duraseal Splice Sleeve



Courtesy of GENERAL MOTORS COMPANY

10. Insert the wire into the splice sleeve barrel until the wire hits the barrel stop. Refer to Folded-Over Wire Repair for splicing wires of 0.35 mm or less (22, 24, 26 gauge sizes) and for splicing wires of different gauges.
11. Tightly close the handles of the crimp tool until the crimper handles open when released.

The crimper handles will not open until you apply the proper amount of pressure to the DuraSeal splice sleeve. Repeat steps 4 and 6 for the opposite end of the splice.

Fig 5: Crimped Duraseal Splice Sleeve



Courtesy of GENERAL MOTORS COMPANY

12. Using the heat torch, apply heat to the crimped area of the barrel.
13. Start in the middle and gradually move the heat barrel to the open ends of the tubing:
 1. The tubing will shrink completely as the heat is moved along the insulation.
 2. A small amount of sealant will come out of the end of the tubing when sufficient shrinkage is achieved.

REPAIR INSTRUCTIONS > WIRE TO WIRE REPAIR - INSTRUMENT PANEL AND CONSOLE > HIGH TEMPERATURE WIRING REPAIRS

Use the following procedures to perform high temperature wiring repairs:

1. Center the high temperature SCT1 shrink tube over the DuraSeal splice sleeve.
2. Using the heat torch, apply heat to the high temperature heat shrink tubing.
3. Gradually move the heat from the center to the open end of the tubing:
 1. The tubing will shrink completely as the heat is moved along the insulation.
 2. A small amount of sealant will come out of the end of the tubing when sufficient shrinkage is achieved.
4. Replace any reflective tape and clips that may have been removed during the repair.

REPAIR INSTRUCTIONS > CONNECTOR RECONNECTION - INSTRUMENT PANEL AND CONSOLE

Special Tools

EL-35616 Terminal Test Probe Kit

For equivalent regional tools, refer to Special Tools .

When the condition is not currently present, but is indicated in DTC history, the cause may be intermittent. An intermittent may also be the cause when there is a customer complaint, but the symptom cannot be duplicated. Refer to the Symptom Table of the system that is suspect of causing the condition before trying to locate an intermittent condition.

Most intermittent conditions are caused by faulty electrical connections or wiring. Inspect for the following items:

- Wiring broken inside the insulation
- Poor connection between the male and female terminal at a connector
- Poor terminal to wire connection - Some conditions which fall under this description are poor crimps, poor solder joints, crimping over the wire insulation rather than the wire itself, and corrosion in the wire to terminal contact area, etc.
- Pierced or damaged insulation can allow moisture to enter the wiring causing corrosion. The conductor can corrode inside the insulation, with little visible evidence. Look for swollen and stiff sections of wire in the suspect circuits.
- Wiring which has been pinched, cut, or its insulation rubbed through may cause an intermittent open or short as the bare area touches other wiring or parts of the vehicle.
- Wiring that comes in contact with hot or exhaust components
- Refer to Inducing Intermittent Fault Conditions in order to duplicate the conditions required, in order to verify the customer concern.
- Refer to Testing for Electrical Intermittents for test procedures to detect intermittent open, high resistance, short to ground, and short to voltage conditions.
- Refer to Scan Tool Snapshot Procedure for advanced intermittent diagnosis and Vehicle Data Recorder operation.

REPAIR INSTRUCTIONS > CONNECTOR RECONNECTION - INSTRUMENT PANEL AND CONSOLE > TESTING FOR TERMINAL FRETTING

Some intermittent conditions can be caused by wire terminal fretting corrosion. Fretting corrosion is a build-up of insulating, oxidized wear debris that can form when there is a small motion between electrical contacts. The oxidized wear debris can pile up enough at the electrical contact spots that the electrical resistance across the connection increases. Movement between the contacting surfaces as small as 10 to 100 microns can cause fretting. To put this in perspective, a sheet of paper is about 100 microns thick, so fretting motion is small and hard to see. Vibration and thermal expansion/contraction are the main sources that create fretting motion. Since vehicles vibrate and can experience large temperature swings, they are a good source for fretting motion. Tin, copper, nickel, and iron surfaces are all susceptible to fretting corrosion. Fretting corrosion can be difficult to see but it looks like small, dark smudges on the terminals contact surface.

To correct a fretting condition disconnect the suspect connector and add dielectric grease / lubricant (Nyogel 760G or equivalent, meeting GM specification 9986087) to both sides of the connector terminals. Then reconnect the connector and wipe away any excess lubricant. This will correct the additional terminal contact resistance due to the terminal fretting corrosion.

REPAIR INSTRUCTIONS > CONNECTOR RECONNECTION - INSTRUMENT PANEL AND CONSOLE > TESTING FOR PROPER TERMINAL CONTACT

It is important to test terminal contact at the component and any inline connectors before replacing a suspect component. Mating terminals must be inspected to ensure good terminal contact. A poor connection between the male and female terminal at a connector may be the result of contamination or deformation.

Contamination may be caused by the connector halves being improperly connected. A missing or damaged connector seal, damage to the connector itself, or exposing the terminals to moisture and dirt can also cause contamination. Contamination, usually in the underhood or underbody connectors, leads to terminal corrosion, causing an open circuit or intermittently open circuit.

Deformation is caused by probing the mating side of a connector terminal without the proper adapter. Always use the **EL-35616** kit when probing connectors. Other causes of terminal deformation are improperly joining the connector halves, or repeatedly separating and joining the connector halves. Deformation, usually to the female terminal contact tang, can result in poor terminal contact causing an open or intermittently open circuit.

Testing for Proper Terminal Contact in Bussed Electrical Centers

It is very important to use the correct test adapter when testing for proper terminal contact of fuses and relays in a bussed electrical center. Use the **EL-35616** kit to test for proper terminal contact. Failure to use the **EL-35616** kit can result in improper diagnosis of the bussed electrical center.

Follow the procedure below in order to test terminal contact:

1. Separate the connector halves.
2. Visually inspect the connector halves for contamination. Contamination may result in a white or green build-up within the connector body or between terminals. This causes high terminal

resistance, intermittent contact, or an open circuit. An underhood or underbody connector that shows signs of contamination should be replaced in its entirety: terminals, seals, and connector body.

3. Using an equivalent male terminal/terminated lead, verify that the retention force is significantly different between a known good terminal and the suspect terminal. Replace the female terminal in question.

Flat Wire Connectors

There are no serviceable parts for flat wire connectors on the harness side or the component side.

Follow the procedure below in order to test terminal contact:

1. Remove the component in question.
2. Visually inspect each side of the connector for signs of contamination. Avoid touching either side of the connector as oil from your skin may be a source of contamination as well.
3. Visually inspect the terminal bearing surfaces of the flat wire circuits for splits, cracks, or other imperfections that could cause poor terminal contact. Visually inspect the component side connector to ensure that all of the terminals are uniform and free of damage or deformation.
4. Insert the appropriate adapter into the flat wire harness connector in order to test the circuit in question.

REPAIR INSTRUCTIONS > CONNECTOR RECONNECTION - INSTRUMENT PANEL AND CONSOLE > CONTROL MODULE/COMPONENT VOLTAGE AND GROUNDS

Poor voltage or ground connections can cause widely varying symptoms.

- Test all control module voltage supply circuits. Many vehicles have multiple circuits supplying voltage to a control module. Other components in the system may have separate voltage supply circuits that may also need to be tested. Inspect connections at the module/component connectors, fuses, and any intermediate connections between the voltage source and the module/component. A test lamp or a DMM may indicate that voltage is present, but neither tests the ability of the circuit to carry sufficient current. Operate the component to test the ability of the circuit to carry sufficient current. Refer to Circuit Testing , and Power Distribution Schematics .
- Test all control module ground and system ground circuits. The control module may have multiple ground circuits. Other components in the system may have separate grounds that may also need to be tested. Inspect grounds for clean and tight connections at the grounding point. Inspect the connections at the component and in splice packs, where applicable. Operate the component to test the ability of the circuit to carry sufficient current. Refer to Circuit Testing , and Ground Distribution Schematics .

REPAIR INSTRUCTIONS > CONNECTOR RECONNECTION - INSTRUMENT PANEL AND CONSOLE > TEMPERATURE SENSITIVITY

- An intermittent condition may occur when a component/connection reaches normal operating temperature. The condition may occur only when the component/connection is cold, or only when

the component/connection is hot.

- Freeze Frame, Failure Records, Snapshot, or Vehicle Data Recorder data may help with this type of intermittent condition, where applicable.
- If the intermittent is related to heat, review the data for a relationship with the following:
 - High ambient temperatures
 - Underhood/engine generated heat
 - Circuit generated heat due to a poor connection, or high electrical load
 - Higher than normal load conditions, towing, etc.
- If the intermittent is related to cold, review the data for the following:
 - Low ambient temperatures - In extremely low temperatures, ice may form in a connection or component. Inspect for water intrusion.
 - The condition only occurs on a cold start.
 - The condition goes away when the vehicle warms up.
- Information from the customer may help to determine if the trouble follows a pattern that is temperature related.
- If temperature is suspected of causing an intermittent fault condition, attempt to duplicate the condition. Refer to Inducing Intermittent Fault Conditions in order to duplicate the conditions required.

REPAIR INSTRUCTIONS > CONNECTOR RECONNECTION - INSTRUMENT PANEL AND CONSOLE > ELECTROMAGNETIC INTERFERENCE AND ELECTRICAL NOISE

Some electrical components/circuits are sensitive to electromagnetic interference or other types of electrical noise. Inspect for the following conditions:

- A mis-routed harness that is too close to high voltage/high current devices such as secondary ignition components, motors, generator etc. - These components may induce electrical noise on a circuit that could interfere with normal circuit operation.
- Electrical system interference caused by a malfunctioning relay, or a control module driven solenoid or switch - These conditions can cause a sharp electrical surge. Normally, the condition will occur when the malfunctioning component is operating.
- Installation of non-factory or aftermarket add on accessories such as lights, 2-way radios, amplifiers, electric motors, remote starters, alarm systems, cell phones, etc. - These accessories may create interference in other circuits while operating and the interference would disappear when the accessory is not operating. Refer to Checking Aftermarket Accessories .
- Test for an open diode across the A/C compressor clutch and for other open diodes. Some relays may contain a clamping diode.
- The generator may be allowing AC noise into the electrical system.

REPAIR INSTRUCTIONS > CONNECTOR RECONNECTION - INSTRUMENT PANEL AND CONSOLE > INCORRECT CONTROL MODULE

- There are only a few situations where reprogramming a control module is appropriate:
 - A new service control module is installed.
 - A control module from another vehicle is installed.
 - Revised software/calibration files have been released for this vehicle.



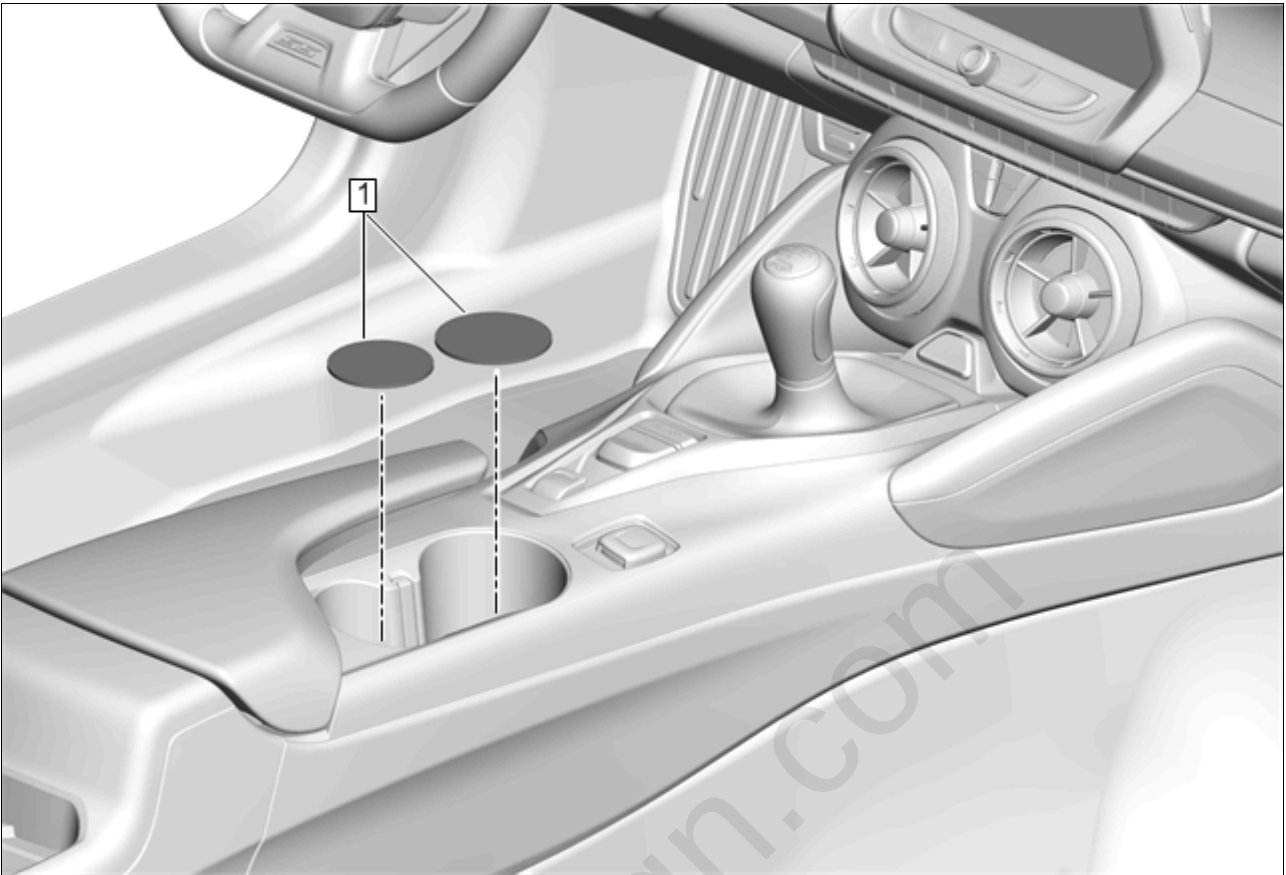
NOTE:

DO NOT re-program the control module with the SAME software/calibration files that are already present in the control module. This is not an effective repair for any type of concern.

- Verify that the control module contains the correct software/calibration. If incorrect programming is found, reprogram the control module with the most current software/calibration. Refer to Control Module References for replacement, setup, and programming.

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE CUP HOLDER LINER REPLACEMENT

Fig 1: Front Floor Console Cup Holder Liner

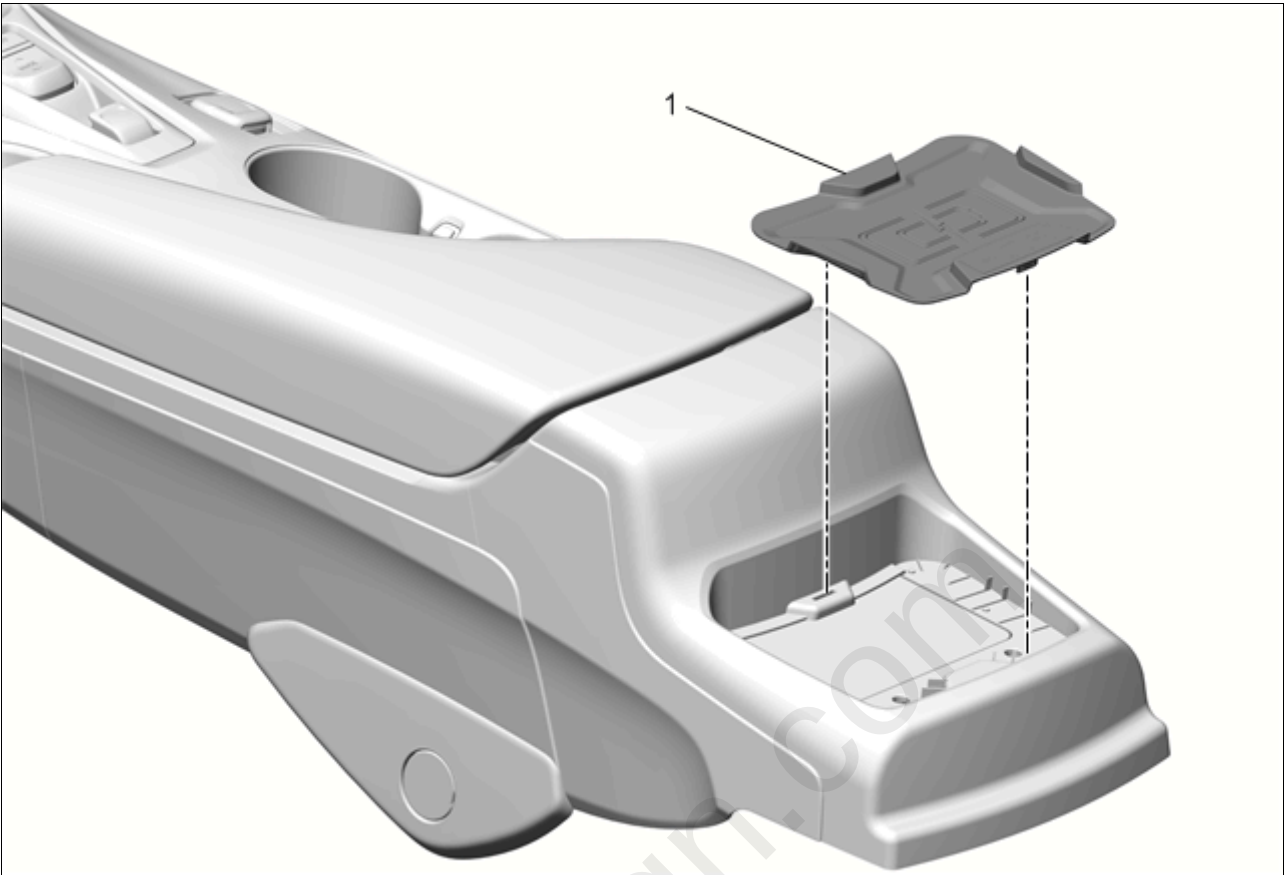


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Cup Holder Liner (Qty: 2)

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE REAR STOWAGE LINER REPLACEMENT

Fig 1: Front Floor Console Rear Stowage Liner

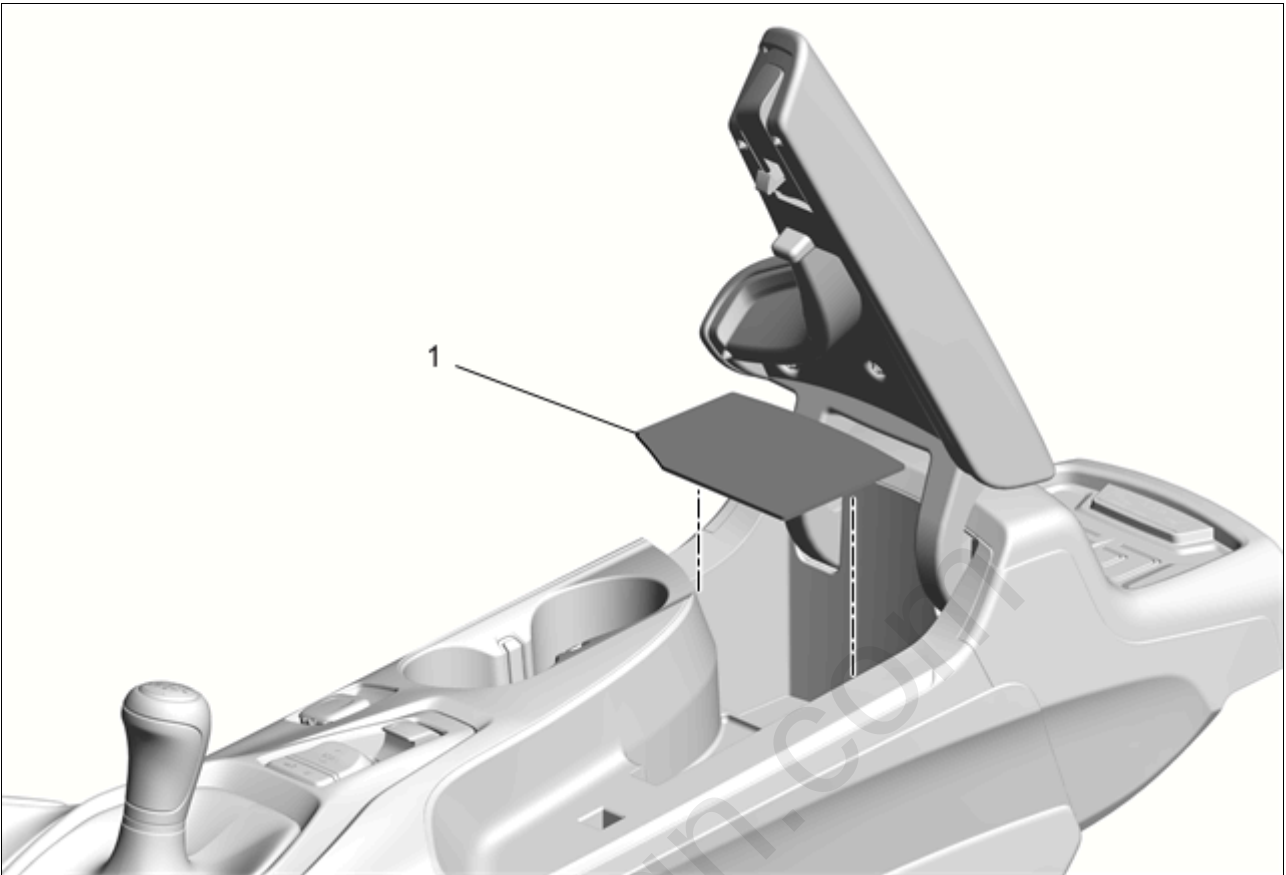


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Rear Stowage Liner

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE CENTER COMPARTMENT LINER REPLACEMENT

Fig 1: Front Floor Console Center Compartment Liner

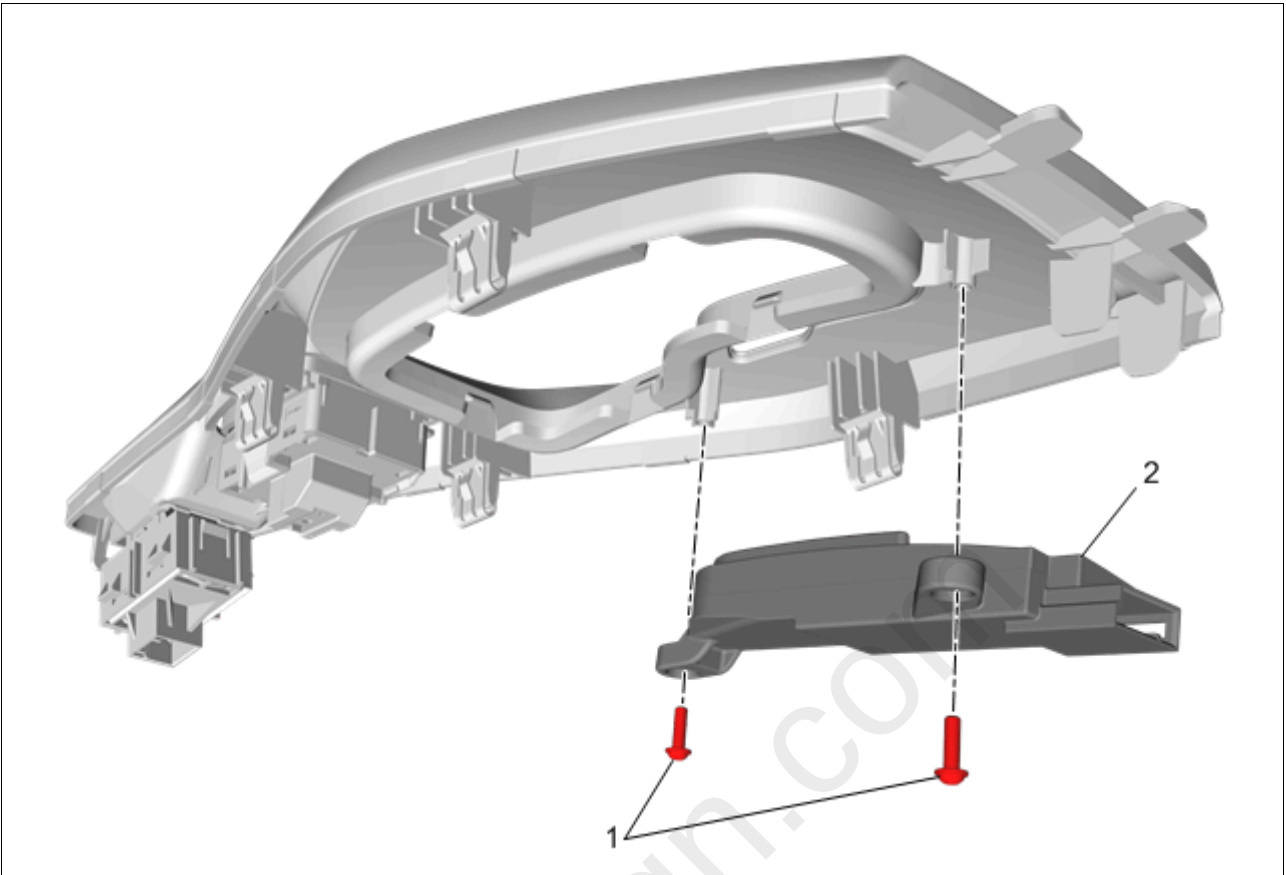


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Center Compartment Liner

**REPAIR INSTRUCTIONS > AUTOMATIC TRANSMISSION CONTROL INDICATOR
BEZEL REPLACEMENT**

Fig 1: Automatic Transmission Control Indicator Bezel

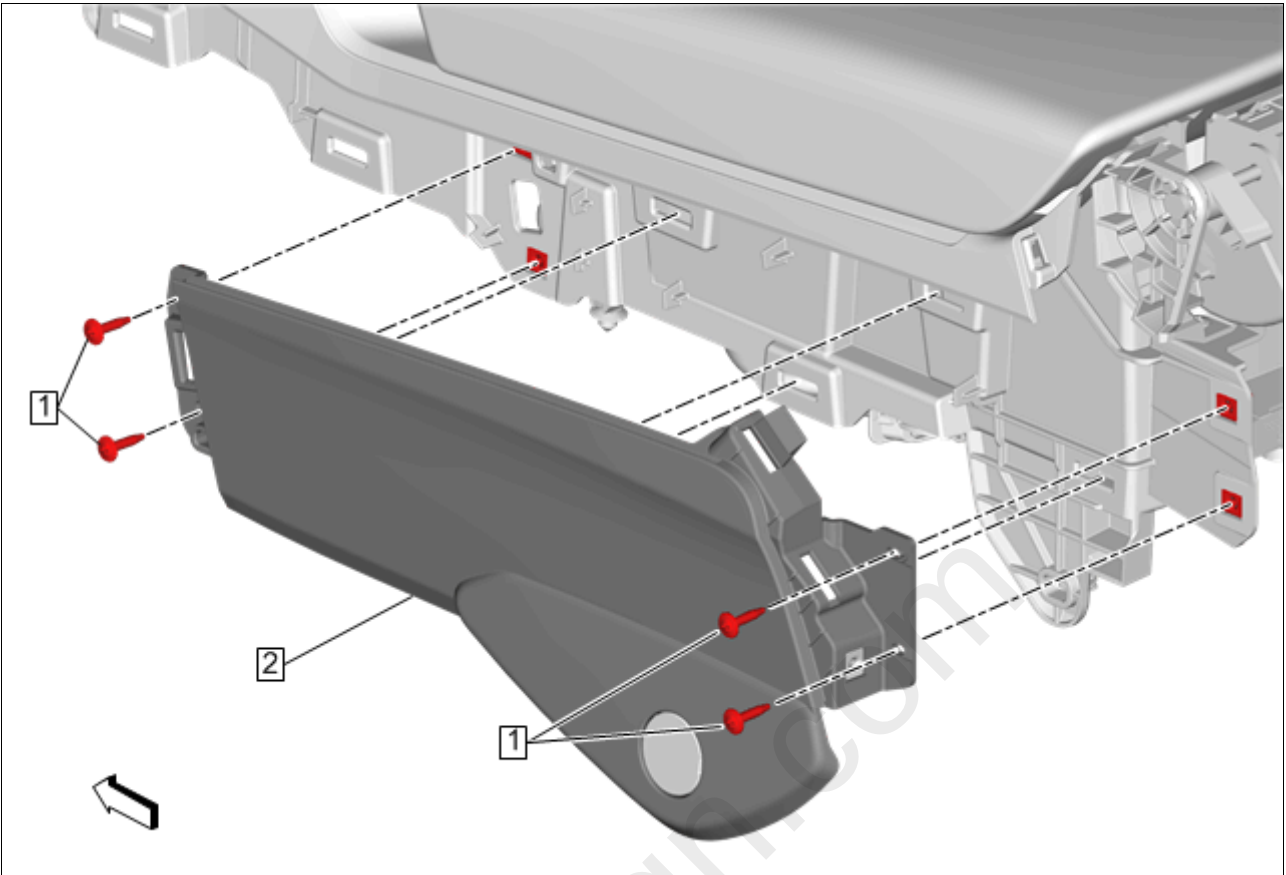


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Floor Console Trim Plate Replacement (Automatic) Front Floor Console Trim Plate Replacement (Manual)	
1	Automatic Transmission Control Indicator Housing Bolt (Qty: 2) <i>CAUTION:</i> <i>Refer to Fastener Caution .</i> Tighten 2 N.m (18 lb in)
2	Automatic Transmission Control Indicator Bezel

**REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE REAR TRIM PANEL
REPLACEMENT (SIDE PANEL FRONT)**

Fig 1: Front Floor Console Rear Trim Panel (Side Panel Front)

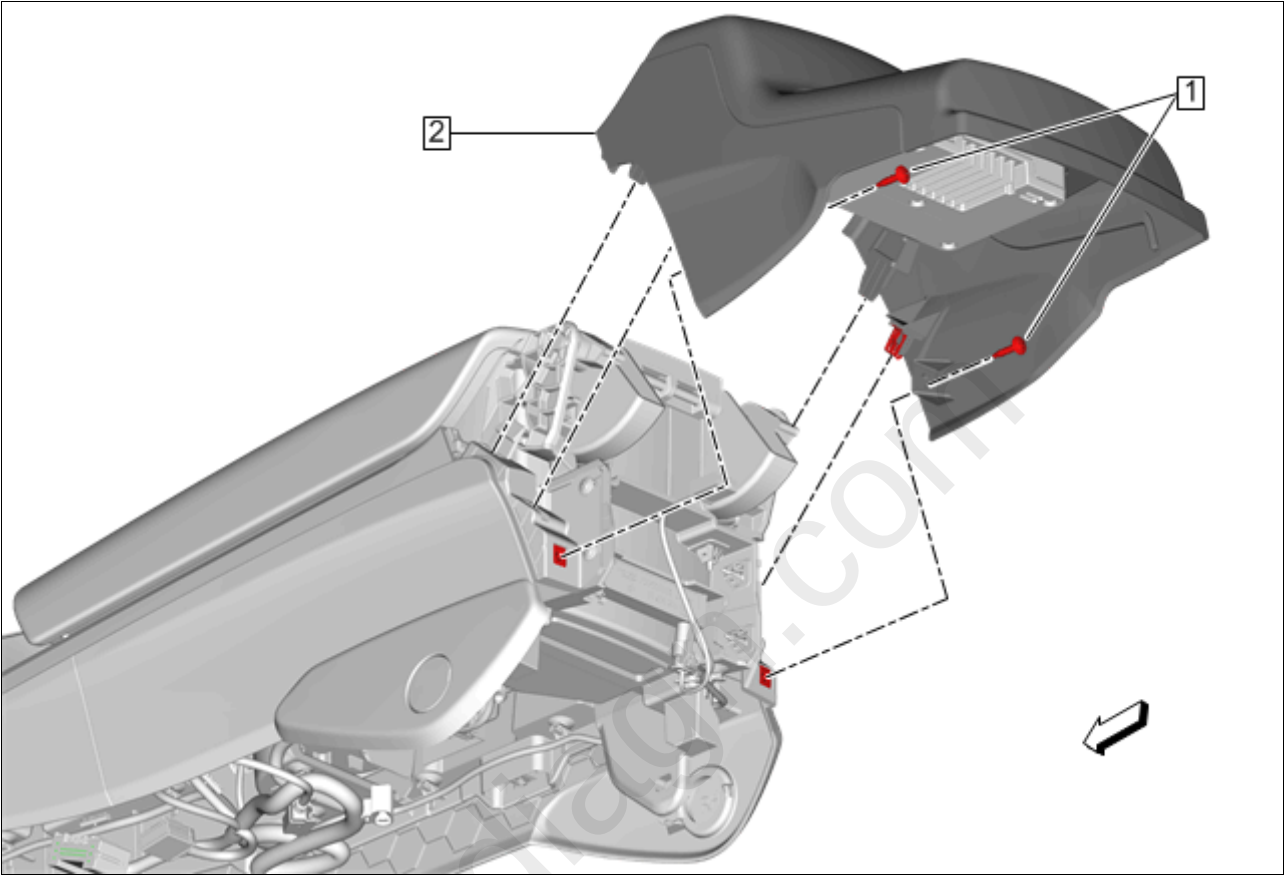


Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. Front Floor Console Side Trim Panel Replacement - Left Side 2. Remove Front Floor Console Rear Trim Panel-Endcap Front Floor Console Rear Trim Panel Replacement (Side Panel Front)	
1	Front Floor Console Trim Plate Bolt (Qty: 4) CAUTION: <i>Refer to Fastener Caution .</i> Tighten 2.5 N.m (22 lb in)
2	Front Floor Console Rear Trim Panel

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE REAR TRIM PANEL
REPLACEMENT (ENDCAP)

Fig 1: Front Floor Console Rear Trim Panel (Endcap)



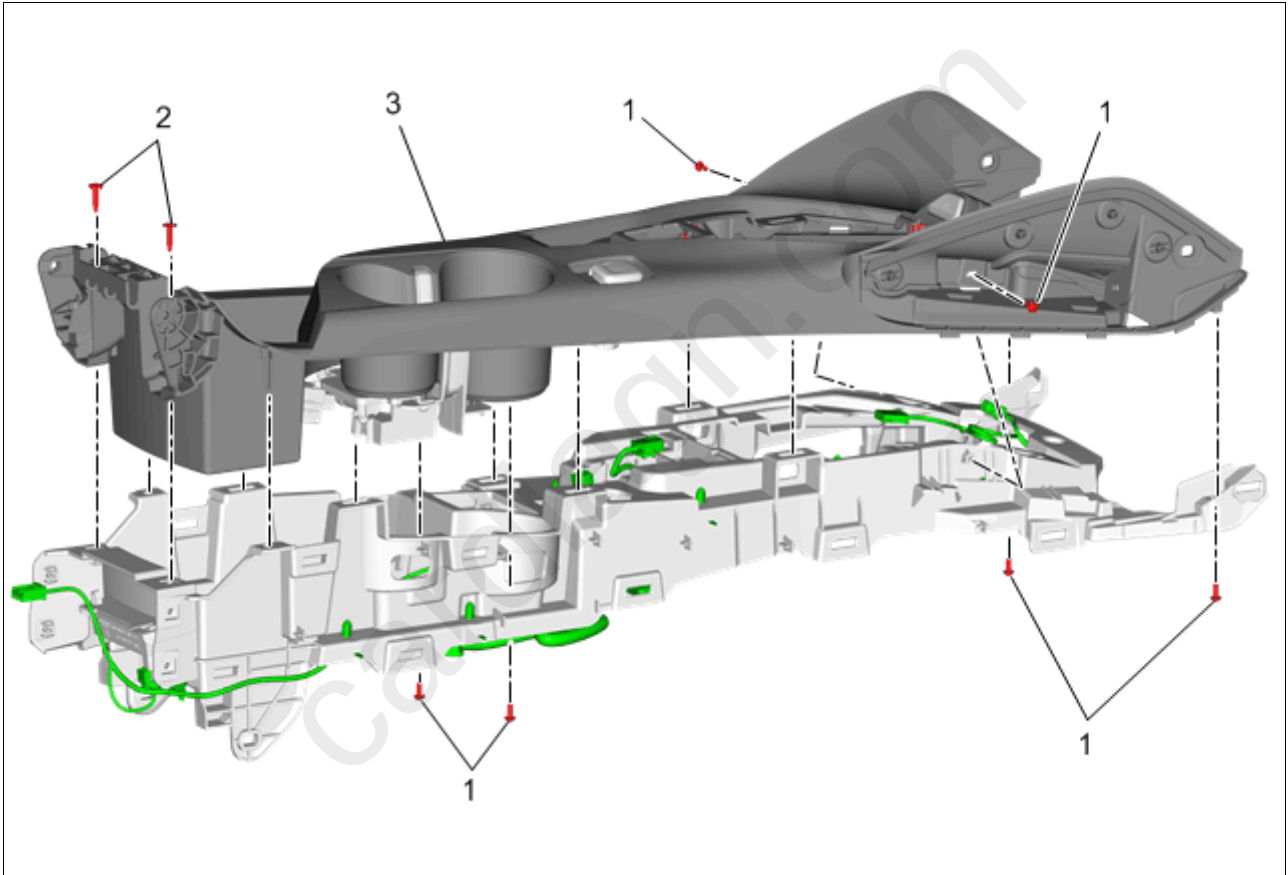
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Floor Console Replacement	
1	Front Floor Console Trim Plate Bolt (Qty: 2)
	CAUTION: Refer to Fastener Caution .
	Tighten 2.5 N.m (22 lb in)

	Front Floor Console Rear Trim Panel
	Procedure
2	1. Use a flat bladed plastic trim tool. 2. Disconnect electrical connections, if applicable. 3. Transfer components as necessary.

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE UPPER PANEL REPLACEMENT

Fig 1: Front Floor Console Upper Panel



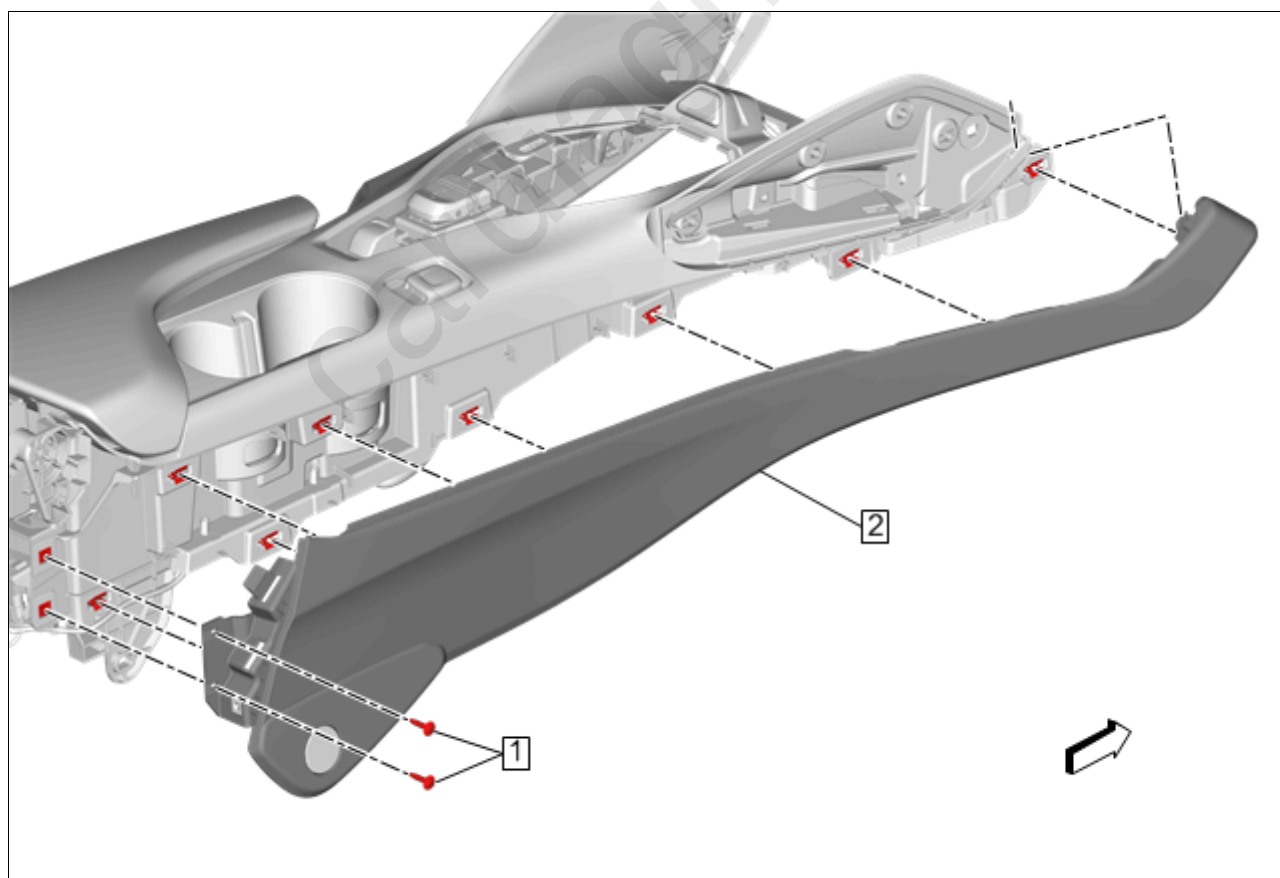
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Floor Console Replacement	
1	Front Floor Rear Trim Plate Bolt (Qty: 6) CAUTION:

	<i>Refer to Fastener Caution .</i>
	Tighten 1.5 N.m (13 lb in)
2	Front Floor Console Trim Plate Bolt (Qty: 2) Tighten 2.5 N.m (22 lb in)
3	Front Floor Console Upper Panel Procedure 1. Disconnect the electrical connectors. 2. Transfer components as necessary.

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE SIDE TRIM PANEL REPLACEMENT - RIGHT SIDE

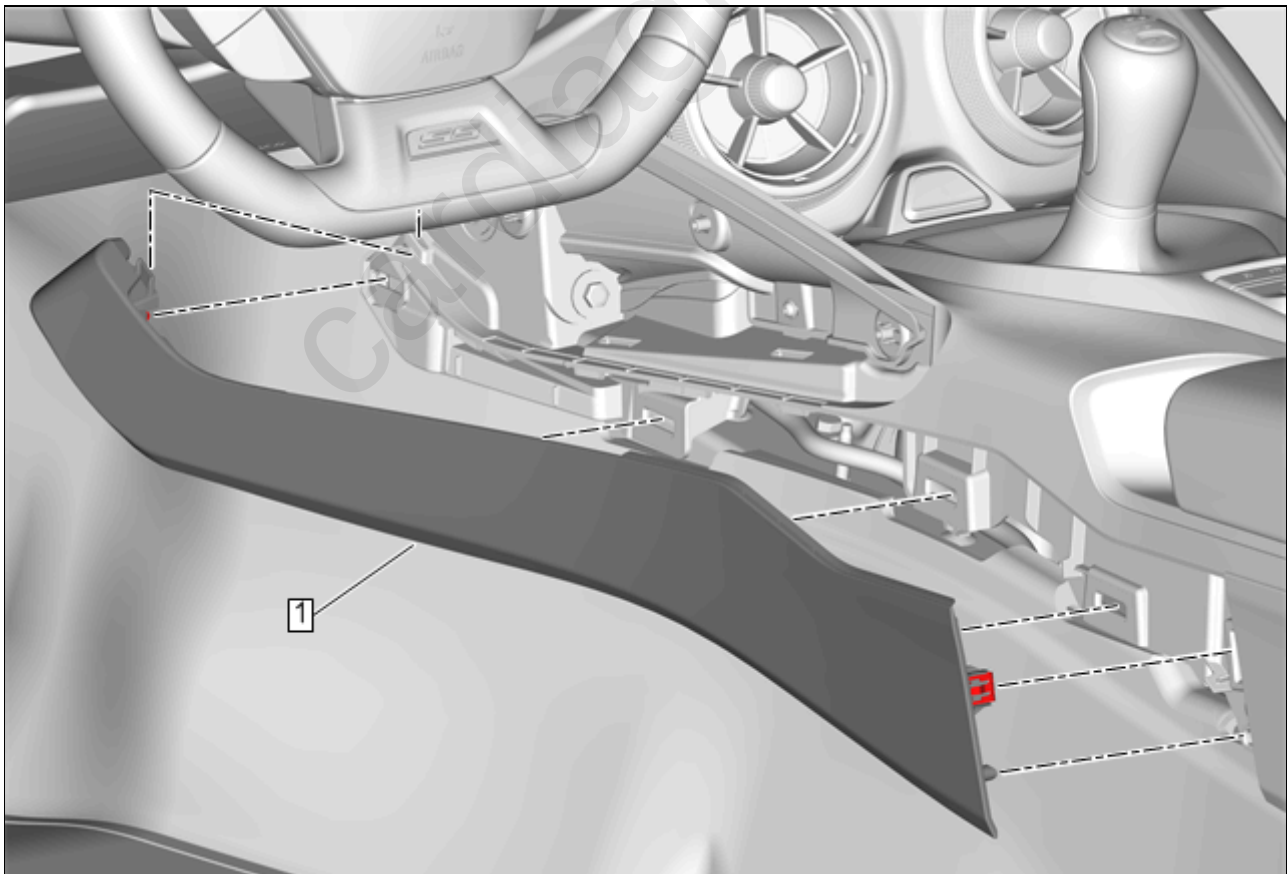
Fig 1: Front Floor Console Side Trim Panel - Right Side



Callout	Component Name
Preliminary Procedure Front Floor Console Rear Trim Panel- Endcap»Remove — Front Floor Console Rear Trim Panel Replacement (Side Panel Front) Front Floor Console Rear Trim Panel Replacement (Endcap)	
1	Front Floor Console Trim Plate Bolt (Qty: 2) CAUTION: <i>Refer to Fastener Caution .</i> Tighten 2.5 N.m (22 lb in)
2	Front Floor Console Side Trim Panel - Right Side

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE SIDE TRIM PANEL REPLACEMENT - LEFT SIDE

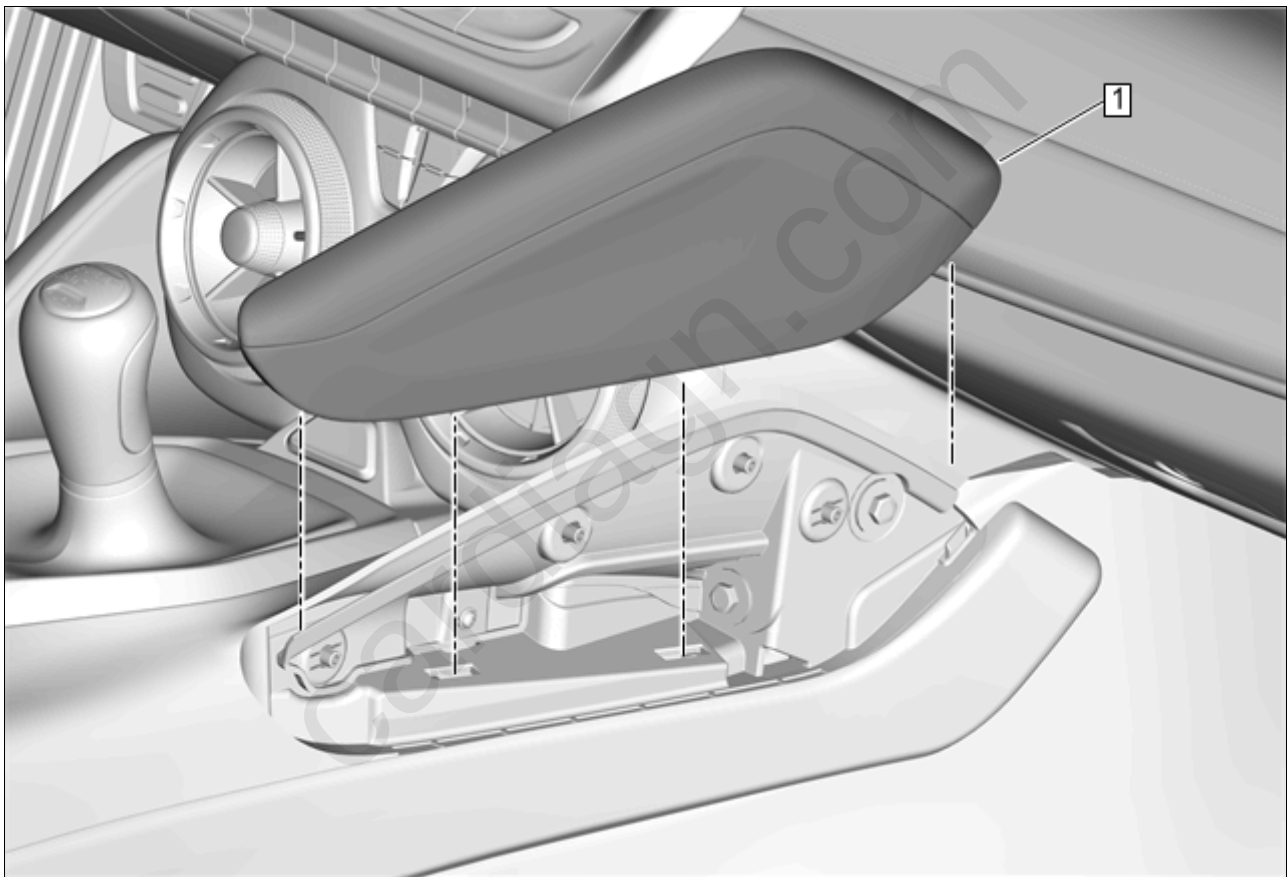
Fig 1: Front Floor Console Side Trim Panel - Left Side



Callout	Component Name
Preliminary Procedure Front Floor Console Extension Panel Replacement - Left Side	
1	Front Floor Console Side Trim Panel - Left Side Procedure Reposition the seats as necessary to access the fasteners.

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE EXTENSION PANEL REPLACEMENT - RIGHT SIDE

Fig 1: Front Floor Console Extension Panel - Right Side



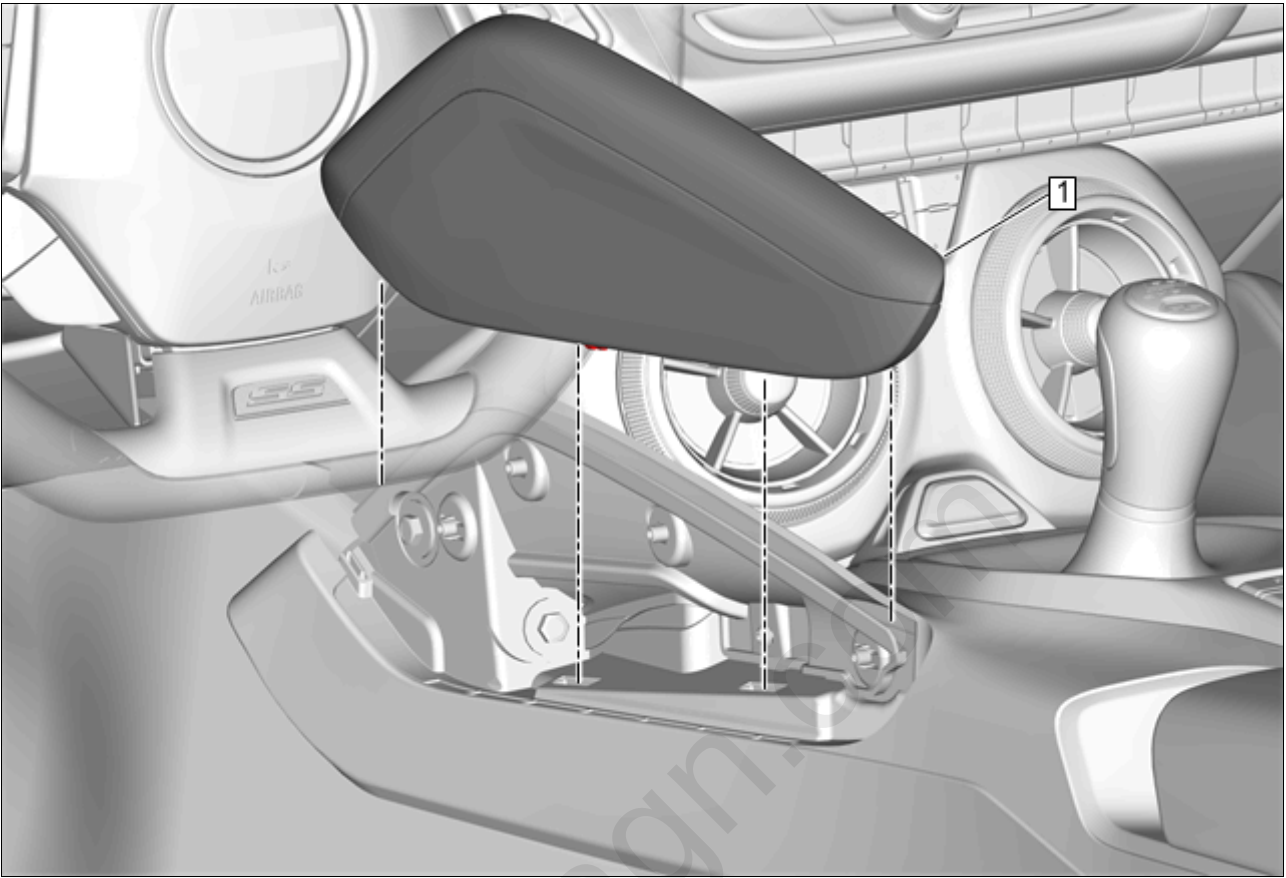
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Extension Panel - Right Procedure Use a flat bladed plastic trim tool.

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE EXTENSION PANEL

REPLACEMENT - LEFT SIDE

Fig 1: Front Floor Console Extension Panel - Left Side



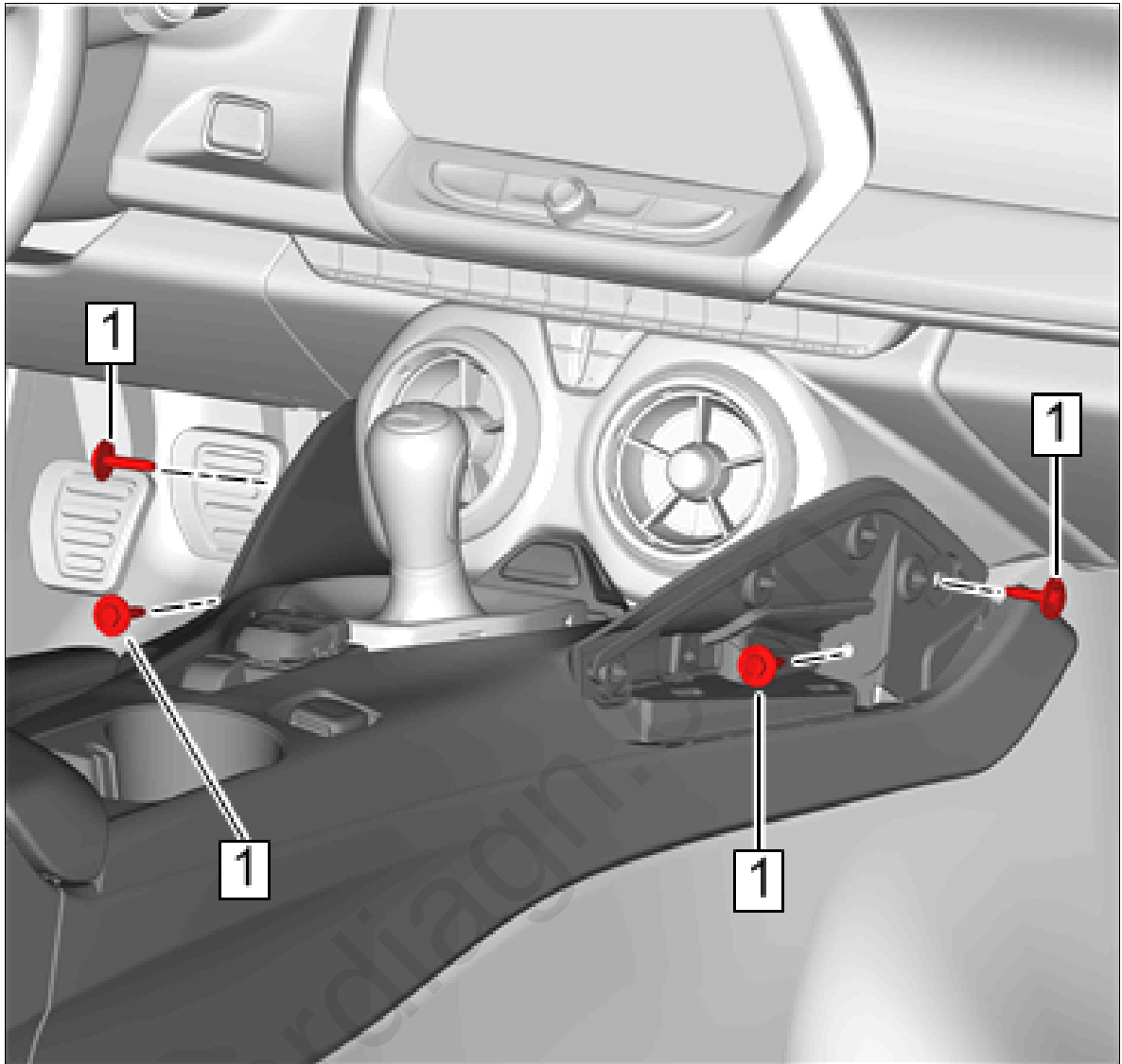
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Extension Panel - Left Procedure Use a flat bladed plastic trim tool.

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE REPLACEMENT > REMOVAL
PROCEDURE

1. Remove Rear Seat Cushion Removal and Installation .
2. Remove Front Floor Console Extension Panel Replacement - Right Side .
3. Remove Front Floor Console Extension Panel Replacement - Left Side .
4. Remove Front Floor Console Trim Plate Replacement (Automatic) Front Floor Console Trim Plate Replacement (Manual) .

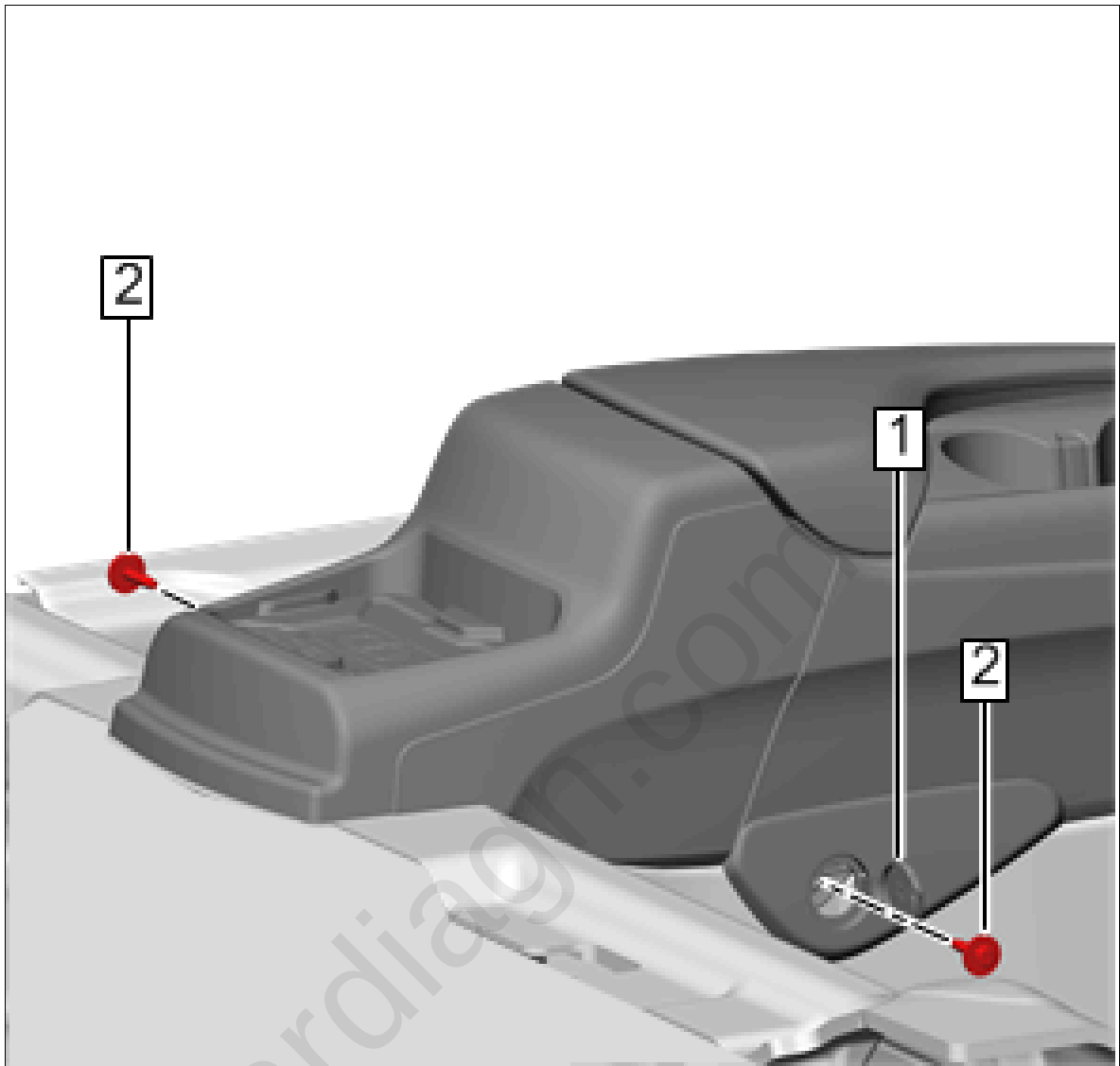
Fig 1: Front Floor Console Bolt



Courtesy of GENERAL MOTORS COMPANY

5. Remove Front Floor Console Bolt (1) (Qty: 4).

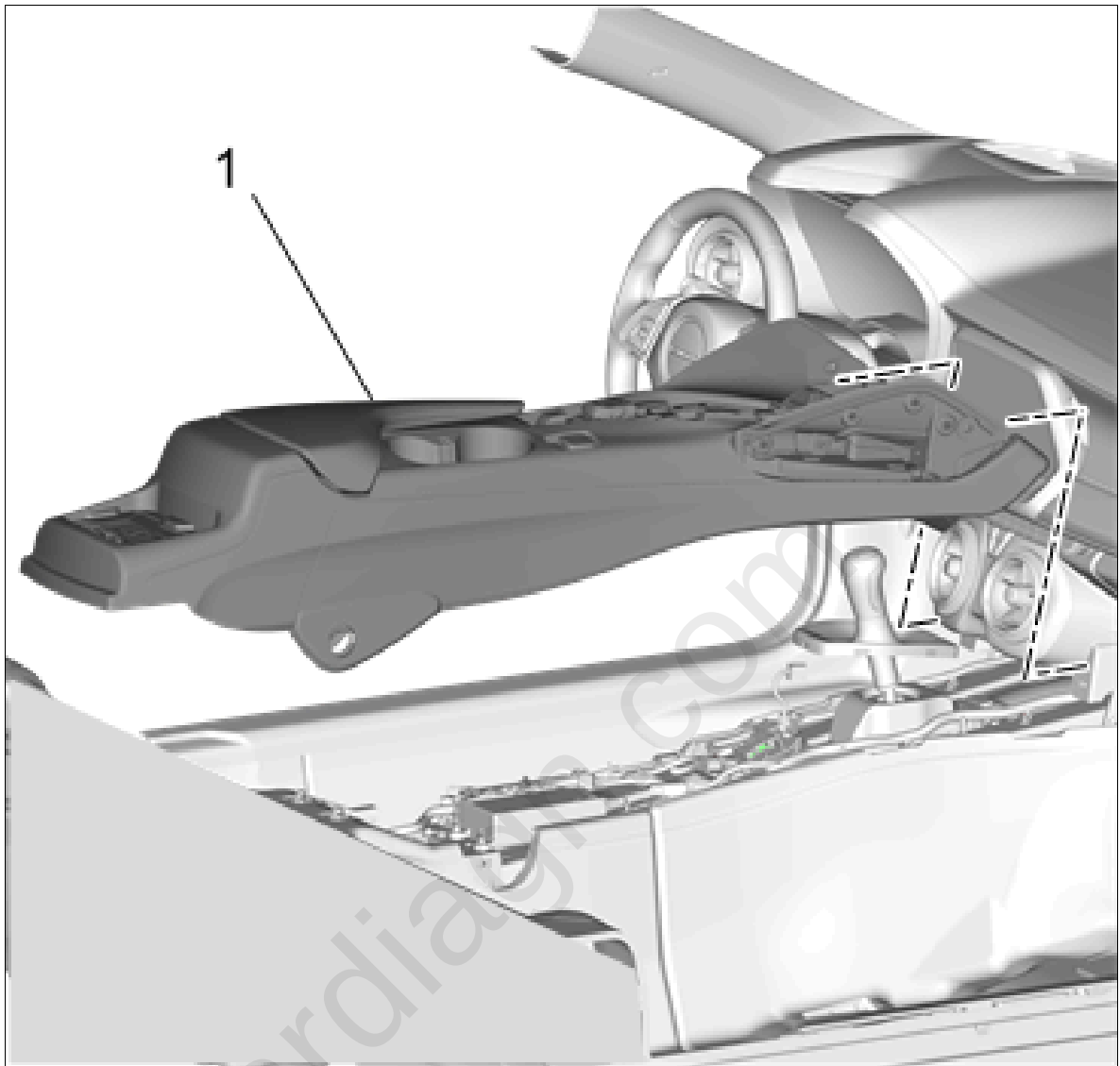
Fig 2: Front Floor Console Bracket Bolt



Courtesy of GENERAL MOTORS COMPANY

6. Open Front Floor Console Bolt Access Hole Cover (1).
7. Remove Front Floor Console Bracket Bolt (2) (Qty: 2).

Fig 3: Front Floor Console

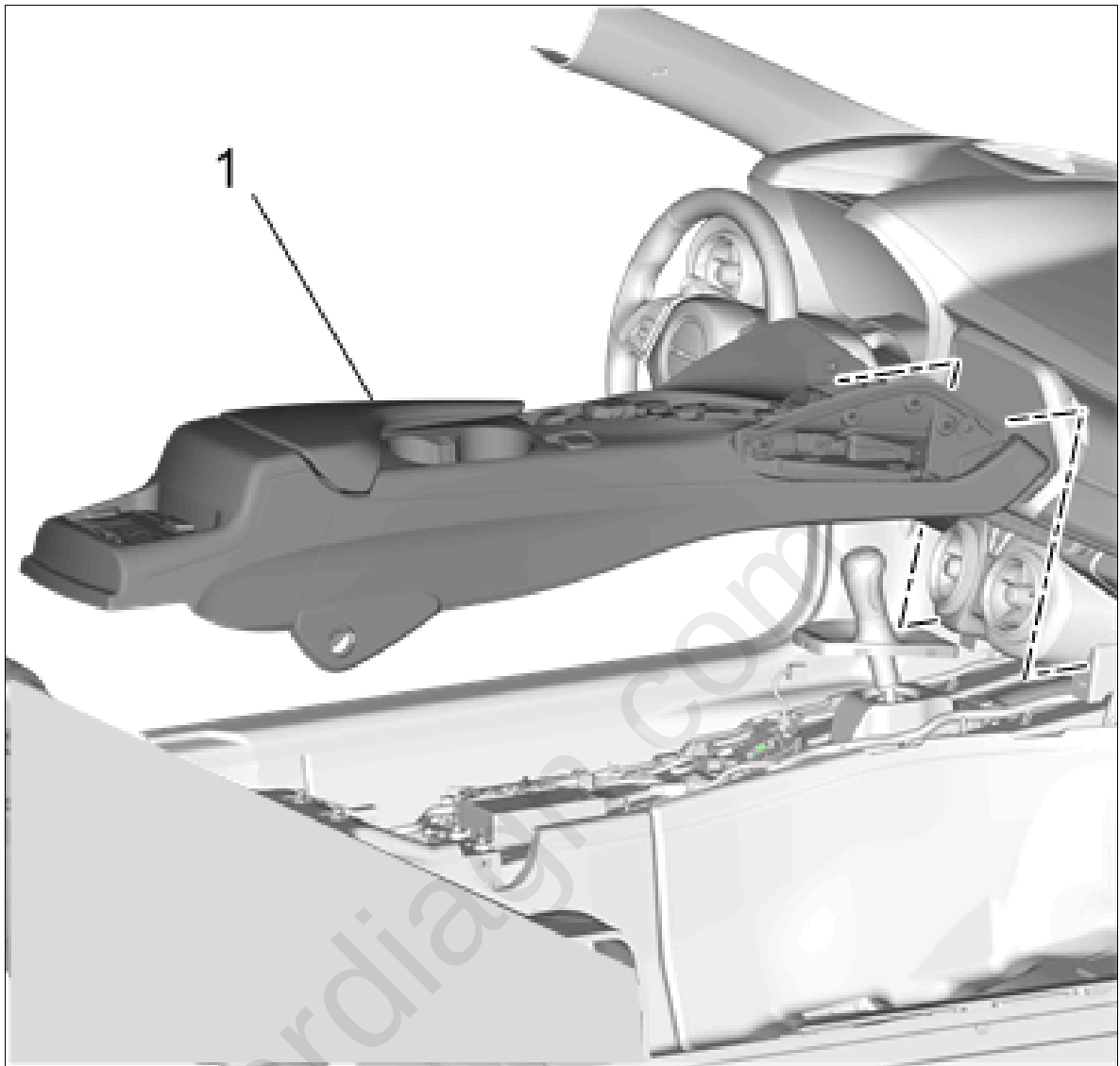


Courtesy of GENERAL MOTORS COMPANY

8. Disconnect all electrical connectors.
9. With the aid of an assistant, remove the console from the vehicle (1).
10. Transfer components as necessary.

**REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE REPLACEMENT >
INSTALLATION PROCEDURE**

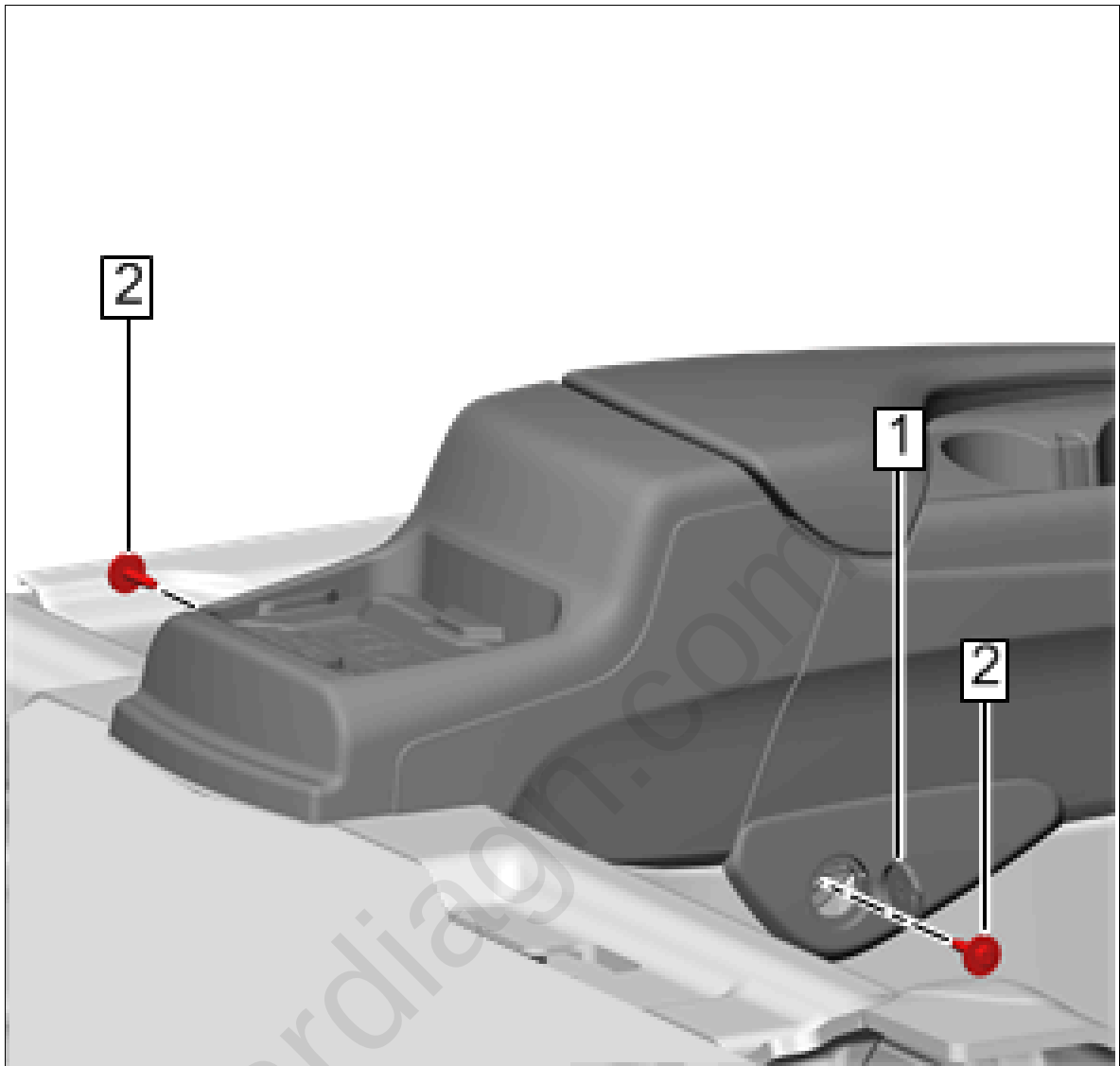
Fig 1: Front Floor Console



Courtesy of GENERAL MOTORS COMPANY

1. With the aid of an assistant, install the console to the vehicle (1).
2. Disconnect all electrical connectors.

Fig 2: Front Floor Console Bracket Bolt



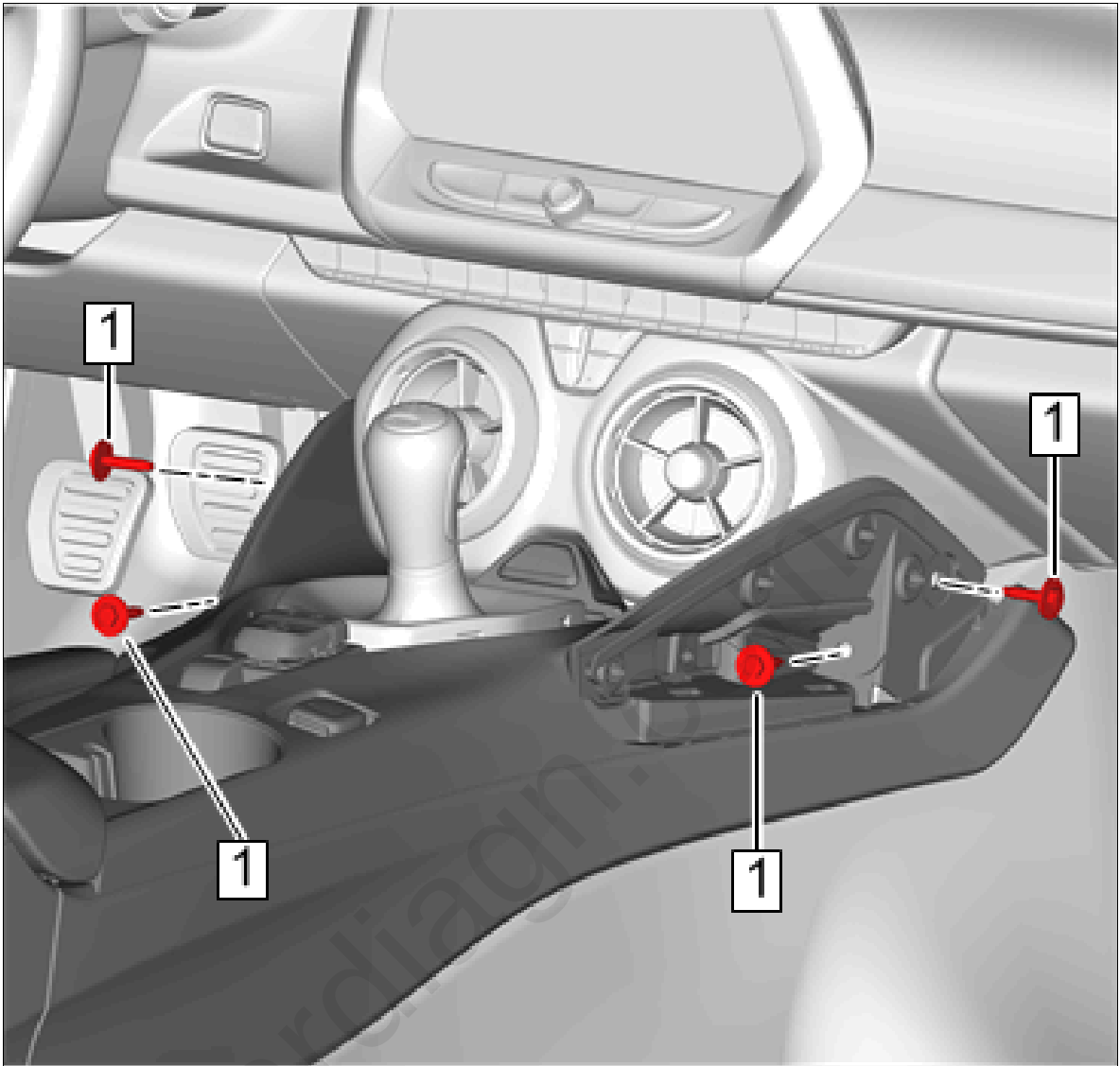
Courtesy of GENERAL MOTORS COMPANY

 **CAUTION:**

Refer to Fastener Caution .

3. Install Front Floor Console Bracket Bolt (2) (Qty: 2) and tighten to 9 N.m (80 lb in)
4. Close Front Floor Console Bolt Access Hole Cover (1).

Fig 3: Front Floor Console Bolt

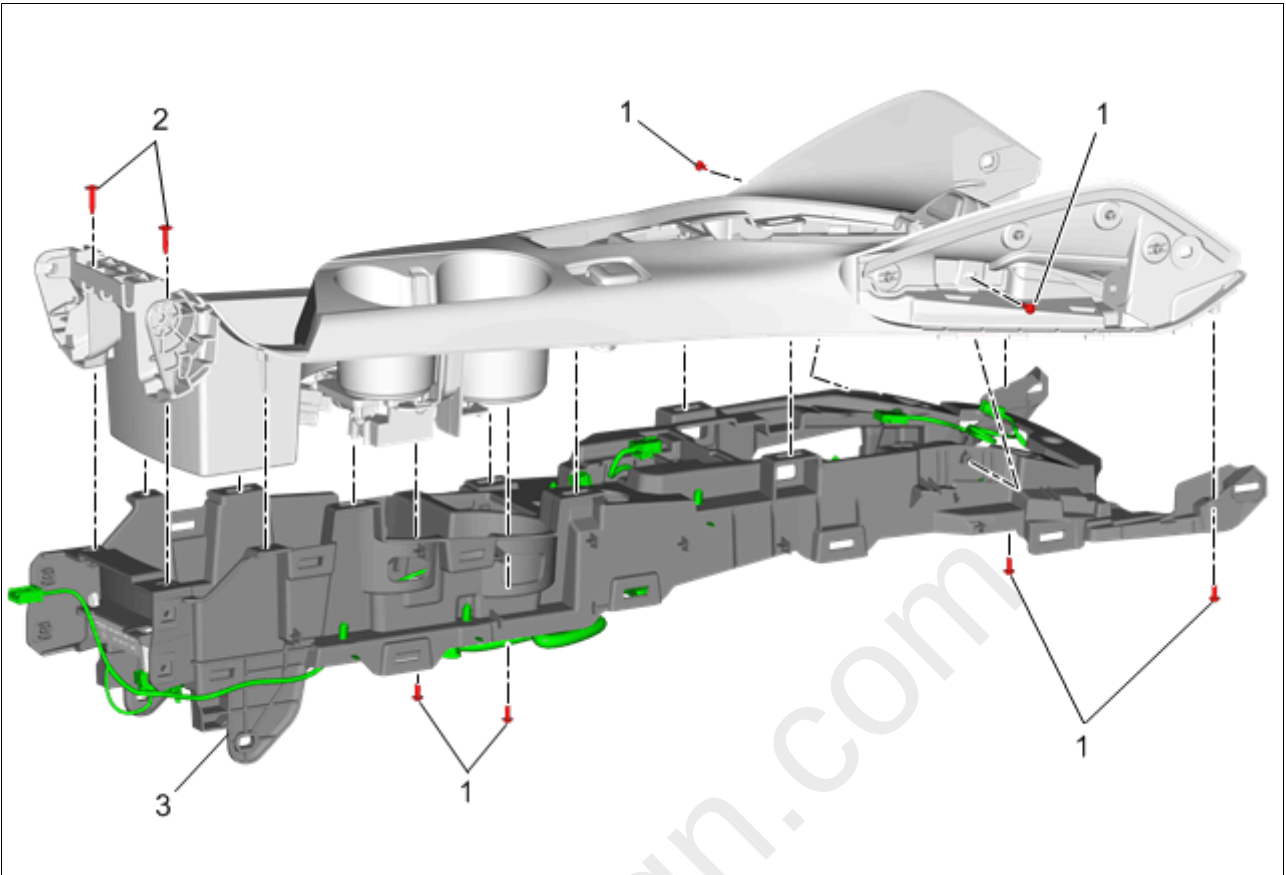


Courtesy of GENERAL MOTORS COMPANY

5. Install Front Floor Console Bolt (1) (Qty: 4) and tighten to 9 N.m (80 lb in)
6. Install Front Floor Console Trim Plate Replacement (Automatic) Front Floor Console Trim Plate Replacement (Manual) .
7. Install Front Floor Console Extension Panel Replacement - Left Side .
8. Install Front Floor Console Extension Panel Replacement - Right Side .
9. Install Rear Seat Cushion Removal and Installation .

REPAIR INSTRUCTIONS > FRONT FLOOR LOWER CONSOLE REPLACEMENT

Fig 1: Front Floor Lower Console



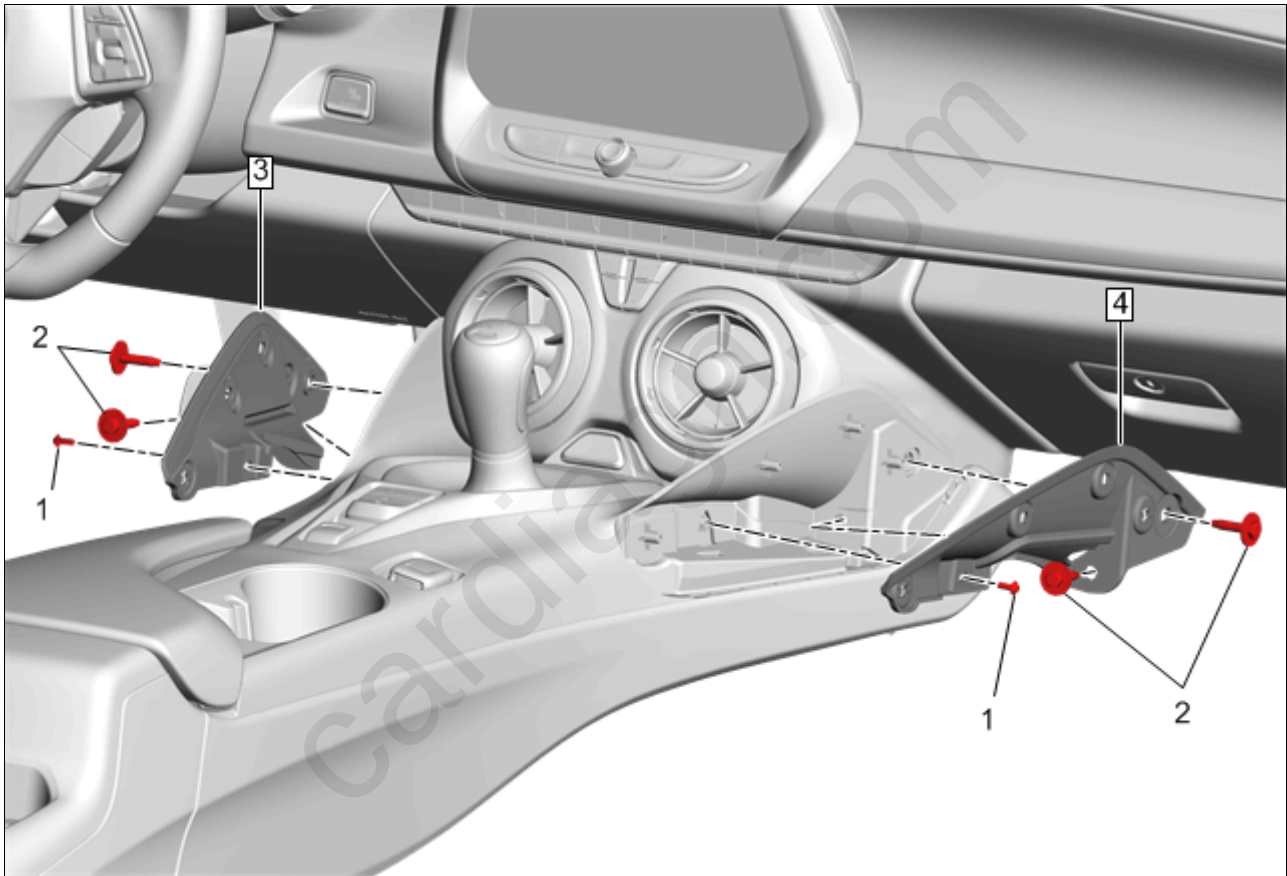
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Floor Console Replacement	
1	Front Floor Rear Trim Plate Bolt (Qty: 6) <i>CAUTION:</i> <i>Refer to Fastener Caution .</i> Tighten 1.5 N.m (13 lb in)
2	Front Floor Console Trim Plate Bolt (Qty: 2) Tighten 2.5 N.m (22 lb in)
3	Front Floor Lower Console Procedure

1. Disconnect the electrical connectors.
2. Note the location and routing of the wiring harness to ensure proper reinstallation.
3. Remove the wiring harness.
4. Transfer components as necessary.

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE BRACKET REPLACEMENT

Fig 1: Front Floor Console Bracket



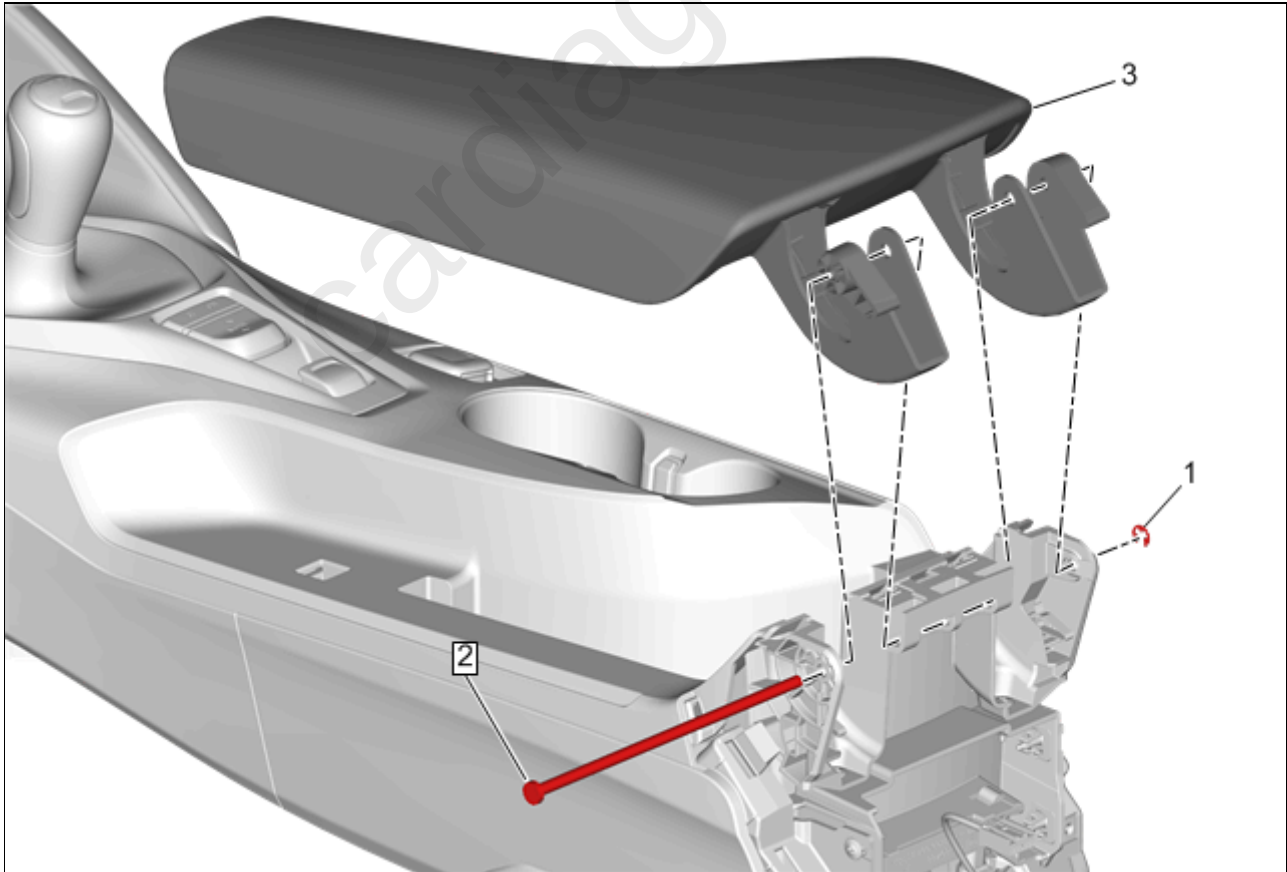
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
1. Front Floor Console Extension Panel Replacement - Right Side	
2. Front Floor Console Extension Panel Replacement - Left Side	

Callout	Component Name
1	Front Floor Console Armrest Bolt (Qty: 5)
	CAUTION: <i>Refer to Fastener Caution .</i>
	Tighten 2 N.m (18 lb in)
2	Front Floor Console Outer Armrest Procedure Release the retainer.
3	Front Floor Console Armrest Latch Procedure Release the plastic retaining tabs.

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE ARMREST REPLACEMENT

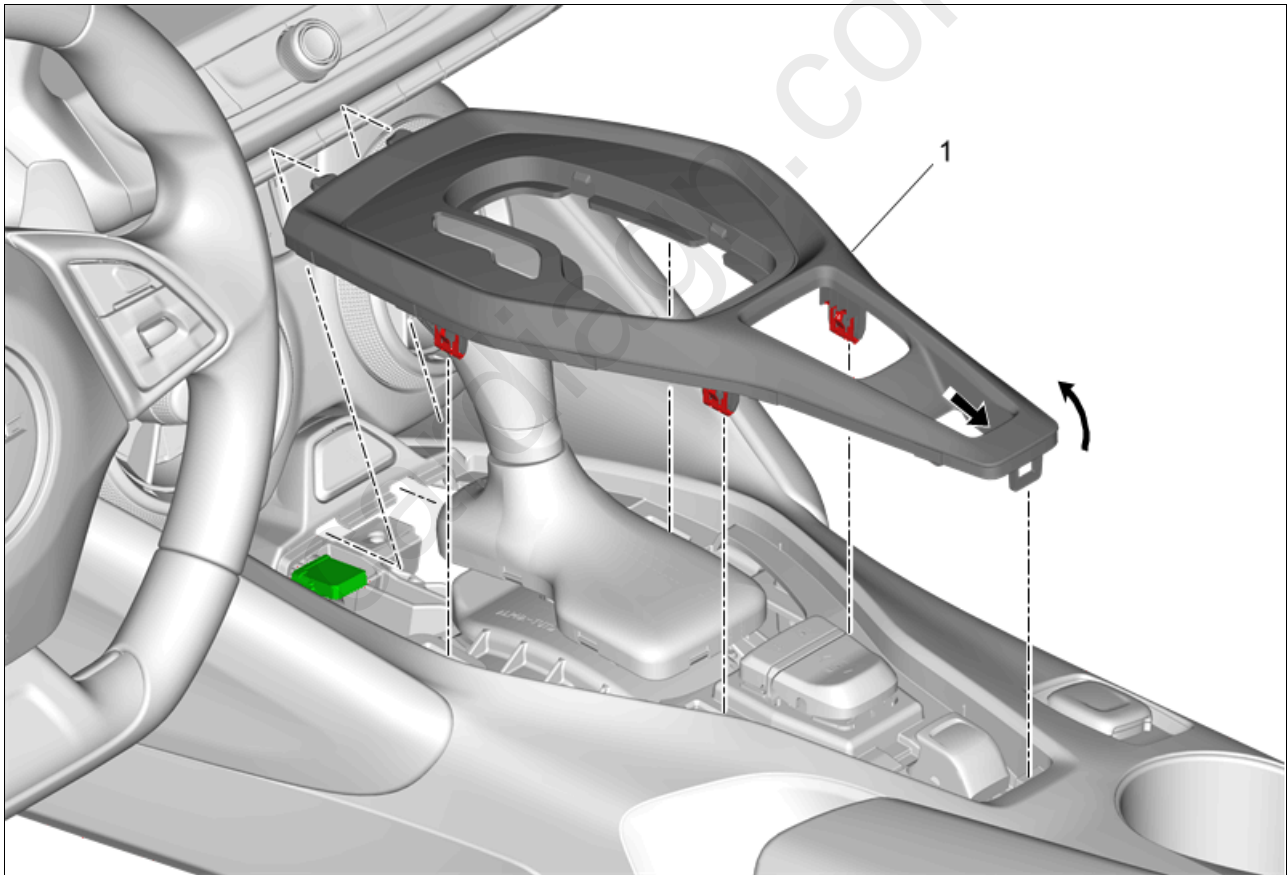
Fig 1: Front Floor Console Armrest



Callout	Component Name
Preliminary Procedure Front Floor Console Rear Trim Panel-Endcap»Remove — Front Floor Console Rear Trim Panel Replacement (Side Panel Front) Front Floor Console Rear Trim Panel Replacement (Endcap)	
1	Front Floor Console Compartment Door Hinge Pin Retainer Procedure Using a suitable tool, remove the retainer.
2	Front Floor Console Armrest Pivot Pin
3	Front Floor Console Armrest

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE TRIM PLATE REPLACEMENT (AUTOMATIC)

Fig 1: Front Floor Console Trim Plate (Automatic)



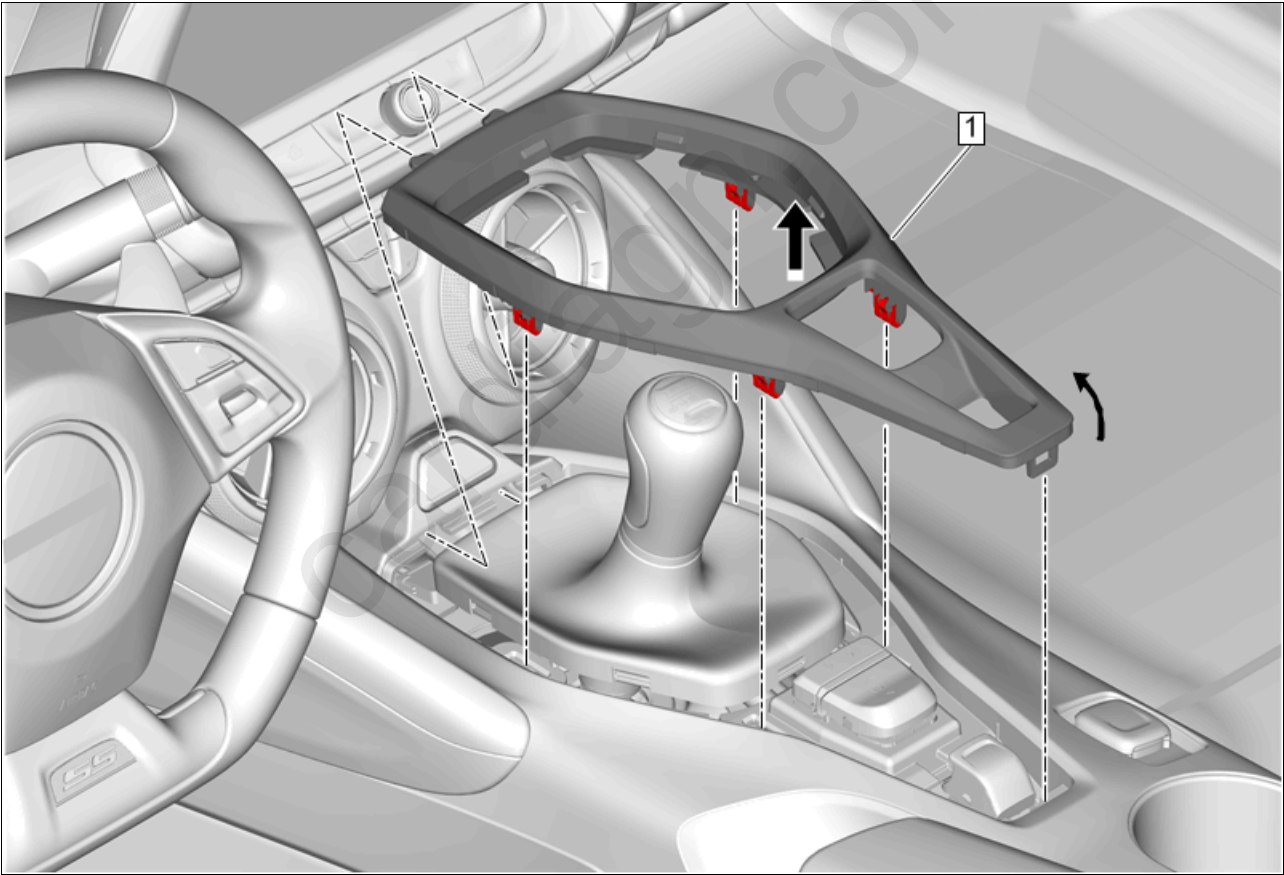
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure It is only necessary to release the boot from the trim plate. Transmission Control Lever Knob Replacement	

	Front Floor Console Trim Plate Procedure 1. Use two flat bladed trim tools. One between the parking brake switch and the trim plate. The other trim tool on one side and work the trim plate up. 2. Pull the trim plate rearward to clear the tabs. 3. Disconnect the electrical connector. 4. Transfer components as necessary.
--	---

REPAIR INSTRUCTIONS > FRONT FLOOR CONSOLE TRIM PLATE REPLACEMENT (MANUAL)

Fig 1: Front Floor Console Trim Plate (Manual)



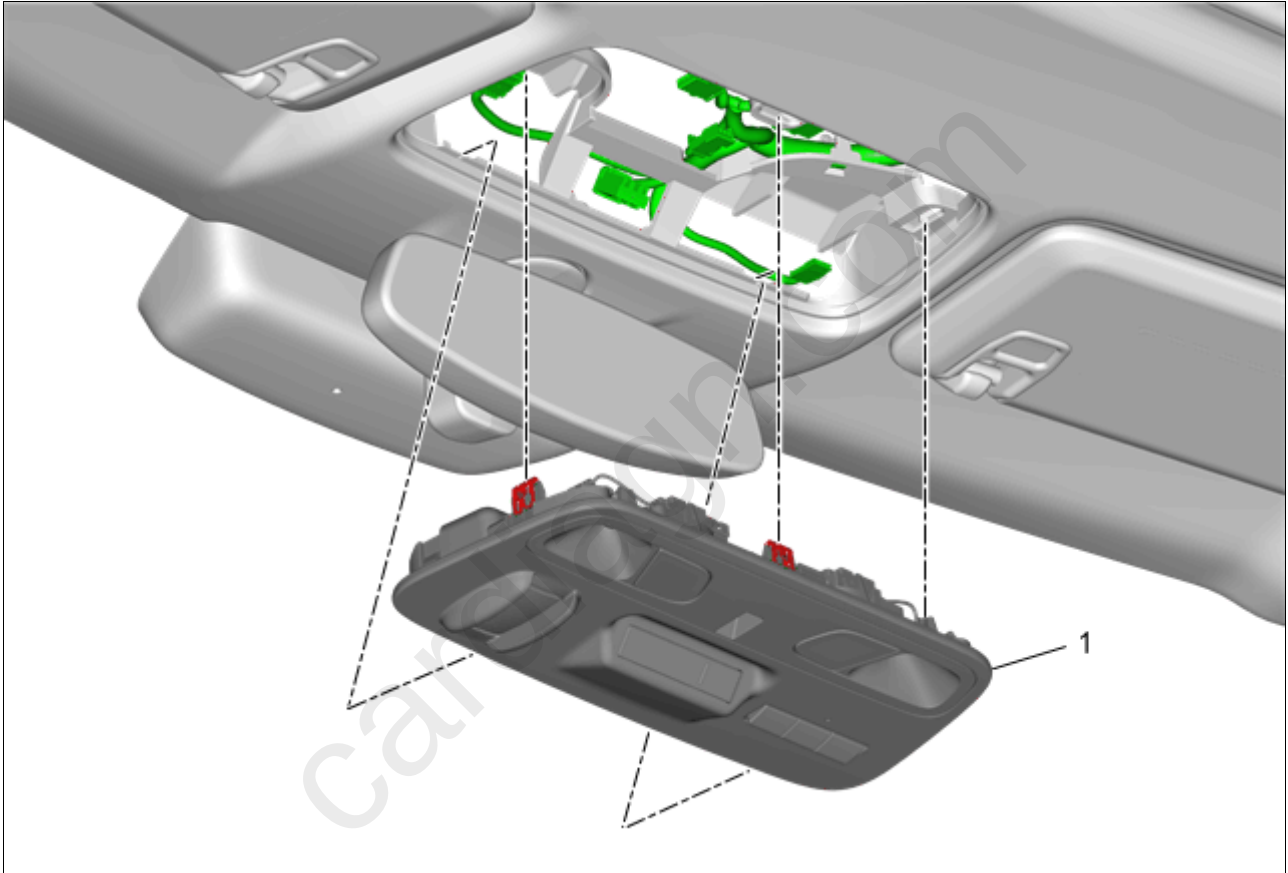
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure It is only necessary to release the boot from the trim plate. Transmission Control Lever Boot Replacement	

1	Front Floor Console Trim Plate Procedure 1. Grab the trim plate just behind the shifter and gentle pull up. 2. Pull the trim plate rearward to clear the tabs.
---	---

REPAIR INSTRUCTIONS > ROOF CONSOLE REPLACEMENT

Fig 1: Roof Console



Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Roof Console Procedure 1. Grasp the roof console at the rearward edge of both sides and pull down to disengage the clips. 2. Continue to lower the roof console rear end first to clear the front tabs. 3. Disconnect all electrical connectors.

	4. Transfer components as necessary.
--	--------------------------------------

cardiagn.com