SPECIFICATIONS

FASTENER SPECIFICATIONS

Reusable Threaded Fastener Tightening Specifications

NOTE:

All fasteners listed in this table can be reused after removal.

Application	Specification
	Metric (English)
Air Distributor Front Duct Bolt	2.5 N.m (22 lb in)
Front Floor Console Accessory Trim Plate Bolt	2.5 N.m (22 lb in)
Front Floor Console Armrest Hinge Bolt	2.5 N.m (22 lb in)
Front Floor Console Bolt	2.5 N.m (22 lb in)
Front Floor Console Bolt to Floor Tunnel	45 N.m (33 lb ft)
Front Floor Console Bolt@Front Floor Console Bracket	9 N.m (80 lb in)
Front Floor Console Bolt@ Floor Tunnel	45 N.m (33 lb ft)
Front Floor Console Front Compartment Cover Bolt	2.5 N.m (22 lb in)
Front Floor Console Rear Cover Bolt	2.5 N.m (22 lb in)
Instrument Carrier Bolt	2.5 N.m (22 lb in)
Instrument Carrier Fastener	2.5 N.m (22 lb in)
Instrument Panel Assembly Fastener	2.5 N.m (22 lb in)
Instrument Panel Bolt	22 N.m (16 lb ft)
Instrument Panel Carrier Fastener	9 N.m (80 lb in)
Instrument Panel Carrier Nut	9 N.m (80 lb in)
Instrument Panel Center Compartment Bolt	2.5 N.m (22 lb in)
Instrument Panel Cluster Trim Plate Bolt	2.5 N.m (22 lb in)
Instrument Panel Compartment Bolt	2.5 N.m (22 lb in)
Instrument Panel Inflatable Restraint Module Fastener	9 N.m (80 lb in)
Instrument Panel Insulator Bolt	2.5 N.m (22 lb in)
Instrument Panel Knee Bolster Bolt	2.5 N.m (22 lb in)
Instrument Panel Lower Fastener	2.5 N.m (22 lb in)
Instrument Panel Tie Bar Brace Bolt	22 N.m (16 lb ft)
Instrument Panel Upper Fastener	2.5 N.m (22 lb in)
Instrument Panel Upper Trim Panel Fastener	9 N.m (80 lb in)
Roof Console Bolt	2.5 N.m (22 lb in)
Side Window Defogger Outlet Duct Fastener	2.5 N.m (22 lb in)

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REPAIR INSTRUCTIONS

INSTRUMENT PANEL INSULATOR REPLACEMENT (RPO D07)

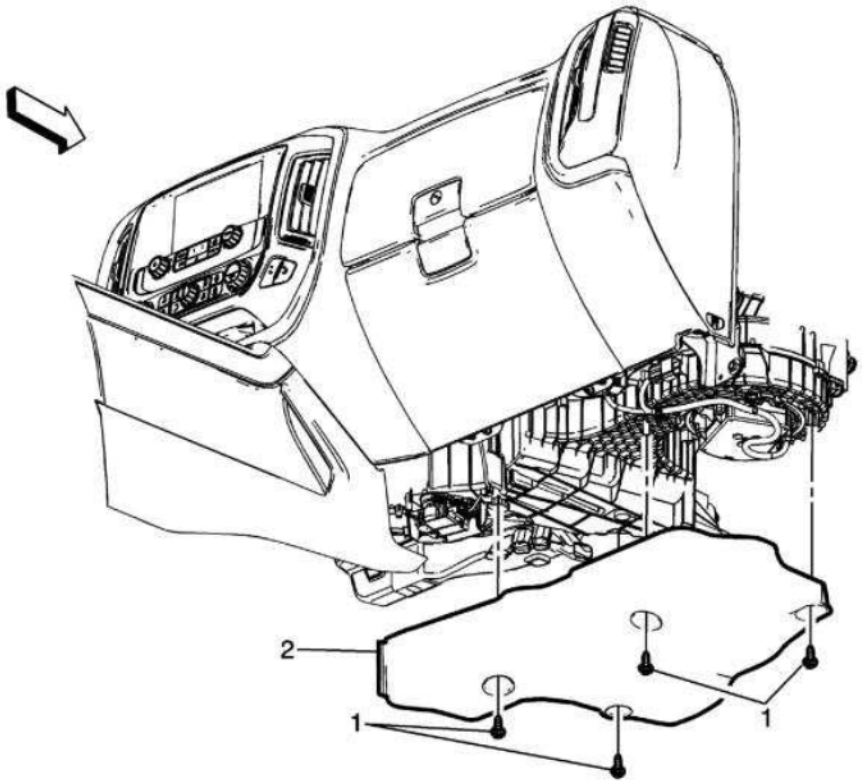


Fig. 1: Instrument Panel Insulator (RPO D07)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Insulator Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Insulator

INSTRUMENT PANEL INSULATOR REPLACEMENT (WITHOUT RPO D07)

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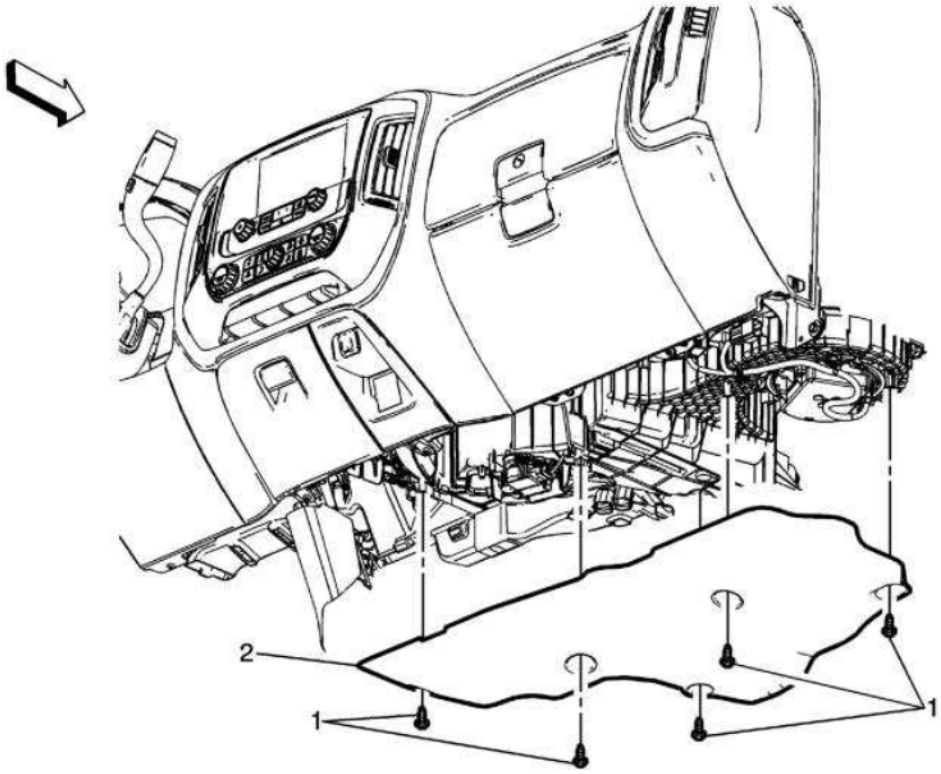


Fig. 2: Instrument Panel Insulator (Without RPO D07)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Insulator Bolt (Qty: 5) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Insulator

INSTRUMENT PANEL INSTRUMENT CLUSTER HOOD REPLACEMENT

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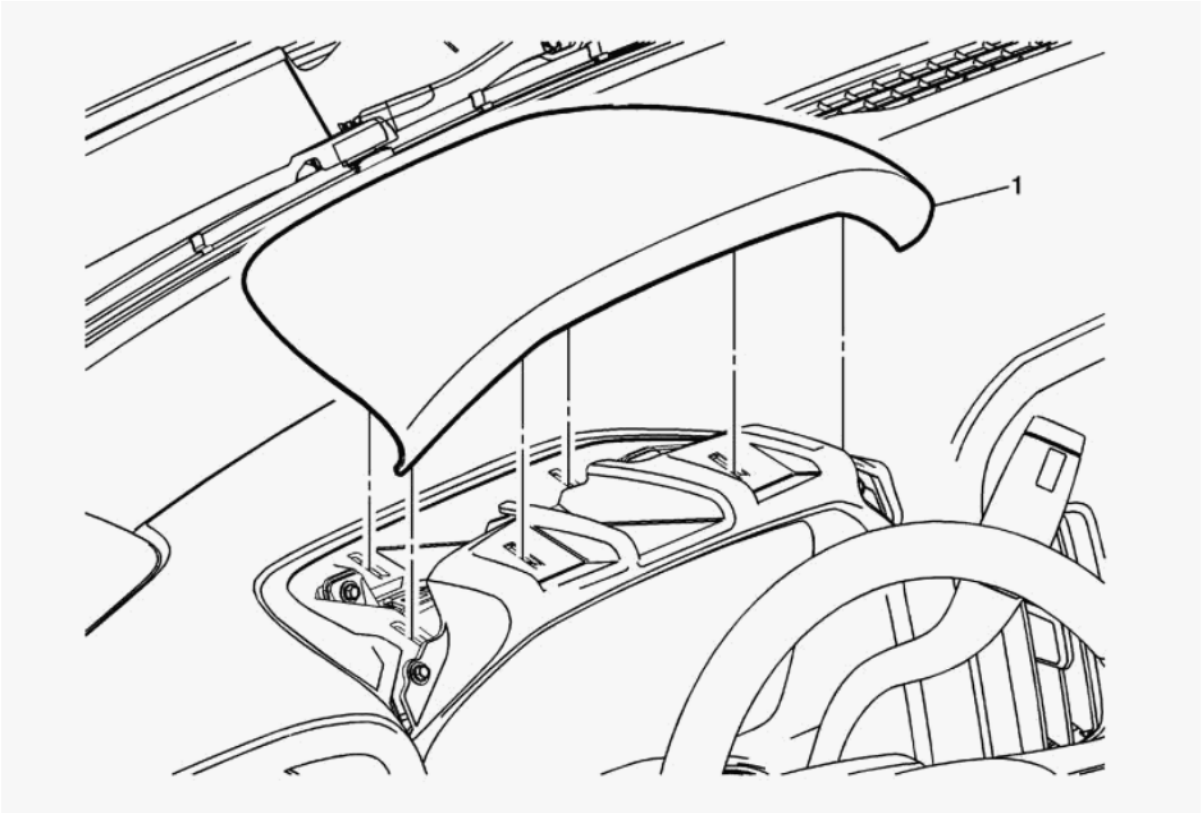


Fig. 3: Instrument Panel Instrument Cluster Hood
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Instrument Cluster Hood **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the hood to the instrument panel assembly.

INSTRUMENT PANEL EXTENSION REPLACEMENT

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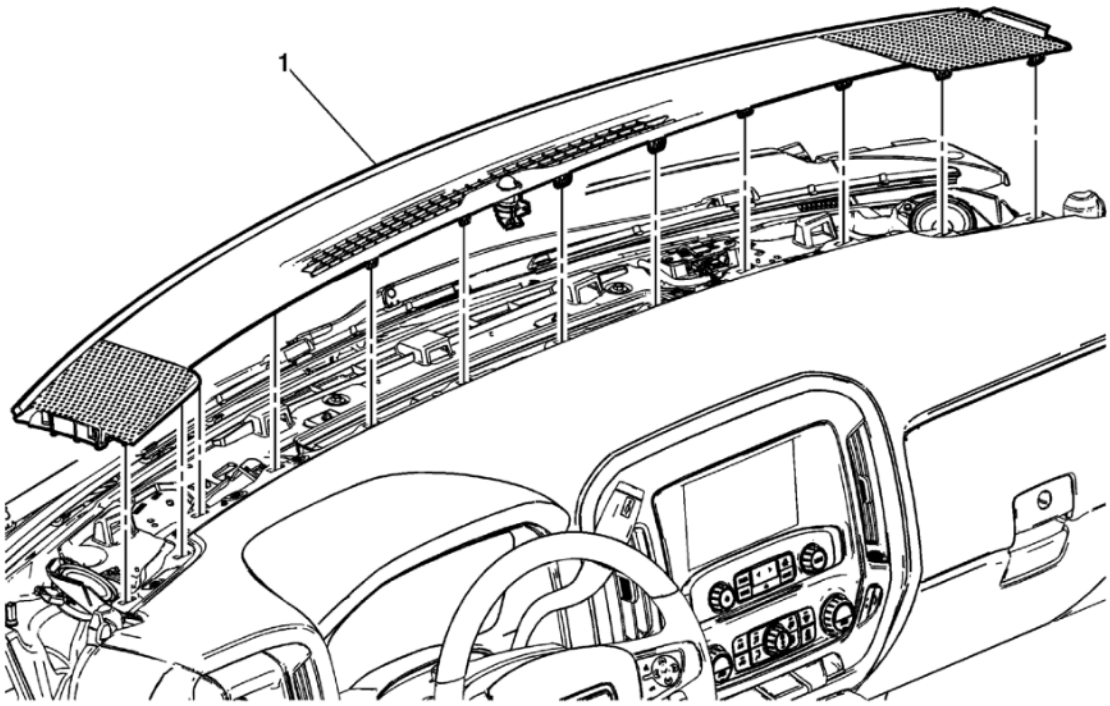


Fig. 4: Instrument Panel Extension
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the Left and right windshield garnish molding. Refer to **Windshield Garnish Molding Replacement - Left Side** , and **Windshield Garnish Molding Replacement - Right Side** .	
1	Instrument Panel Extension **Procedure** 1. Use a flat-bladed plastic trim tool to release the 12 retainers securing the instrument panel extension to the instrument panel upper trim panel. 2. Disconnect the electrical connection. 3. When replacing the instrument panel extension, transfer all necessary components.

INSTRUMENT PANEL KNEE BOLSTER REPLACEMENT

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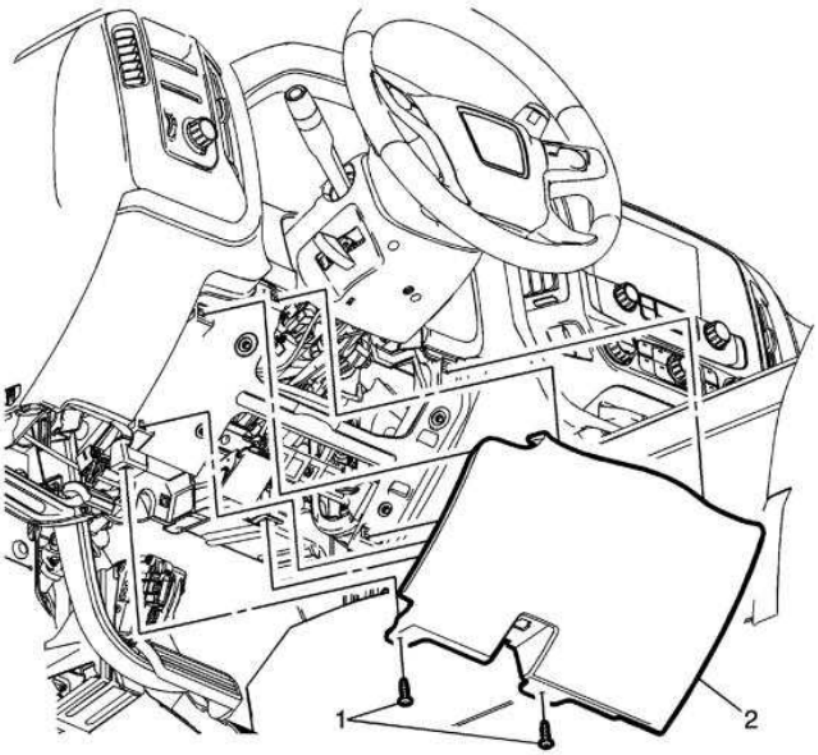


Fig. 5: Instrument Panel Knee Bolster
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Knee Bolster Bolt (Qty: 2) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Knee Bolster **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the knee bolster to the instrument panel assembly. 2. Disconnect the hood release lever.

INSTRUMENT PANEL CENTER TRIM PLATE APPLIQUE REPLACEMENT

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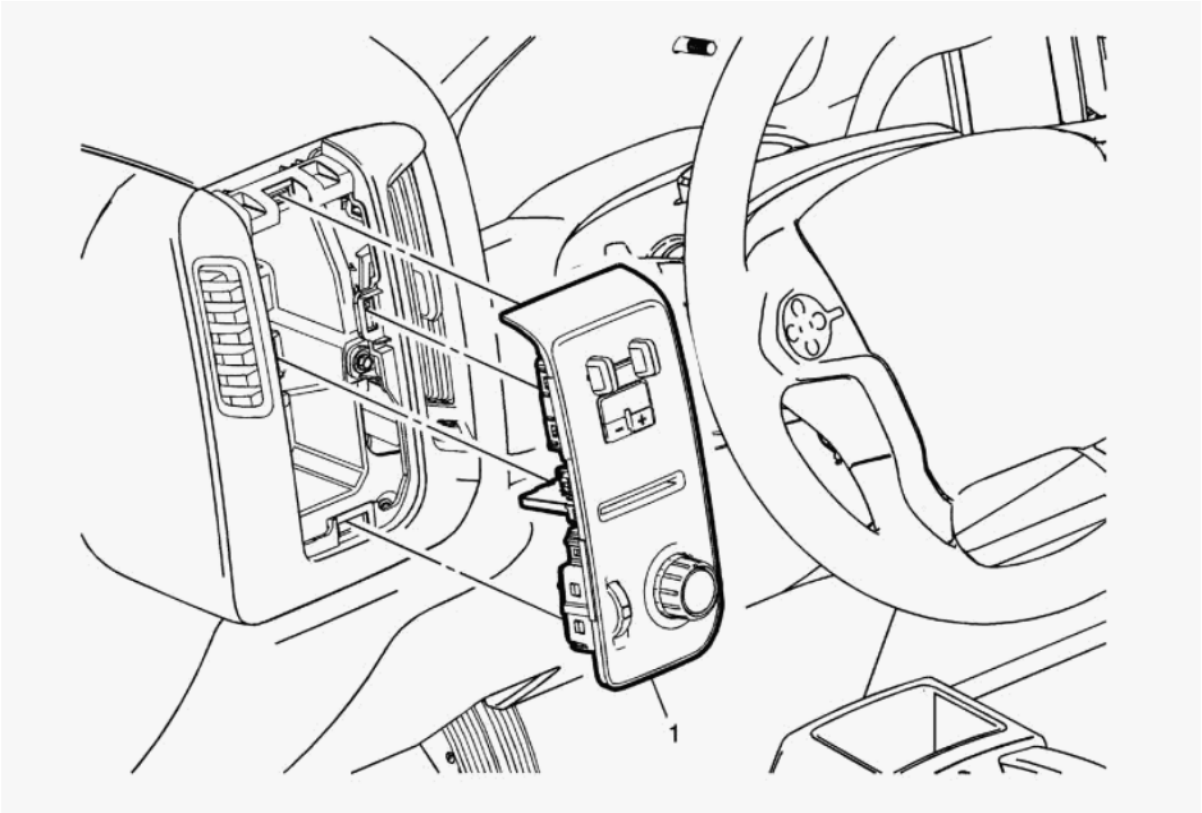


Fig. 6: Instrument Panel Center Trim Plate Applique
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Center Trim Plate Applique **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the applique to the left instrument panel trim plate. 2. Disconnect the electrical connections.

INSTRUMENT PANEL TRIM PLATE REPLACEMENT - RIGHT SIDE

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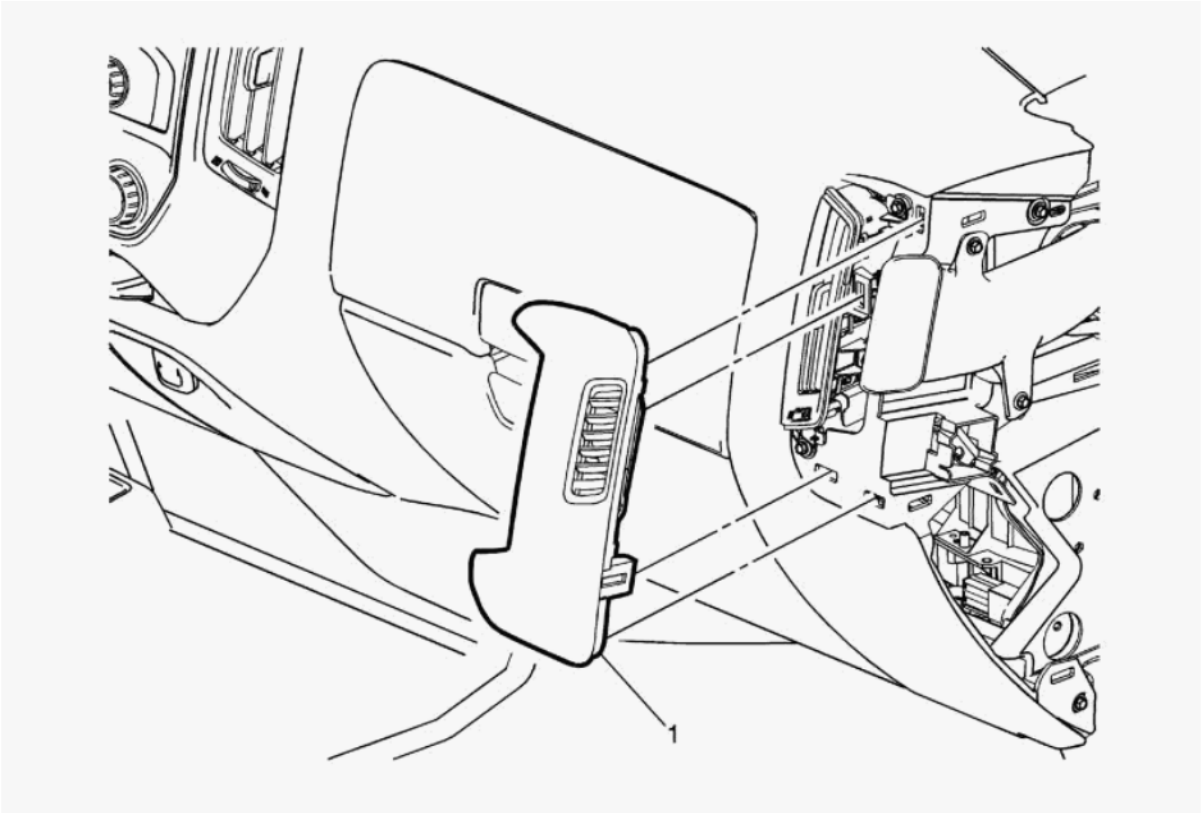


Fig. 7: Instrument Panel Trim Plate - Right Side
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the right instrument panel fuse block access hole cover. Refer to **Instrument Panel Fuse Block Access Hole Cover Replacement**.	
1	Instrument Panel Trim Plate - Right Side **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim plate to the instrument panel assembly.

INSTRUMENT PANEL TRIM PLATE REPLACEMENT - LEFT SIDE

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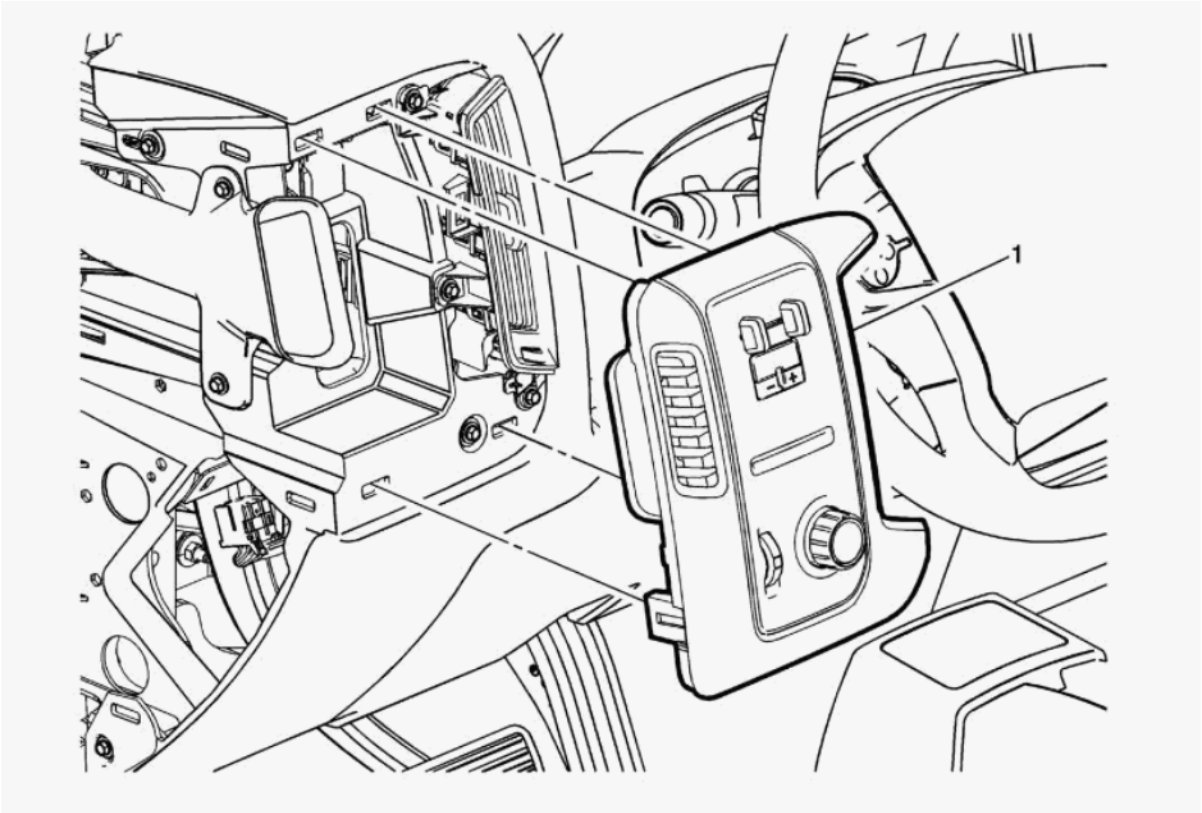


Fig. 8: Instrument Panel Trim Plate - Left Side
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the left instrument panel fuse block access hole cover. Refer to **Instrument Panel Fuse Block Access Hole Cover Replacement**.	
1	Instrument Panel Trim Plate - Left Side **Procedure** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim plate to the instrument panel assembly. 2. Disconnect the electrical connection. 3. When replacing the trim plate, transfer all necessary components.

INSTRUMENT PANEL ACCESSORY BEZEL REPLACEMENT

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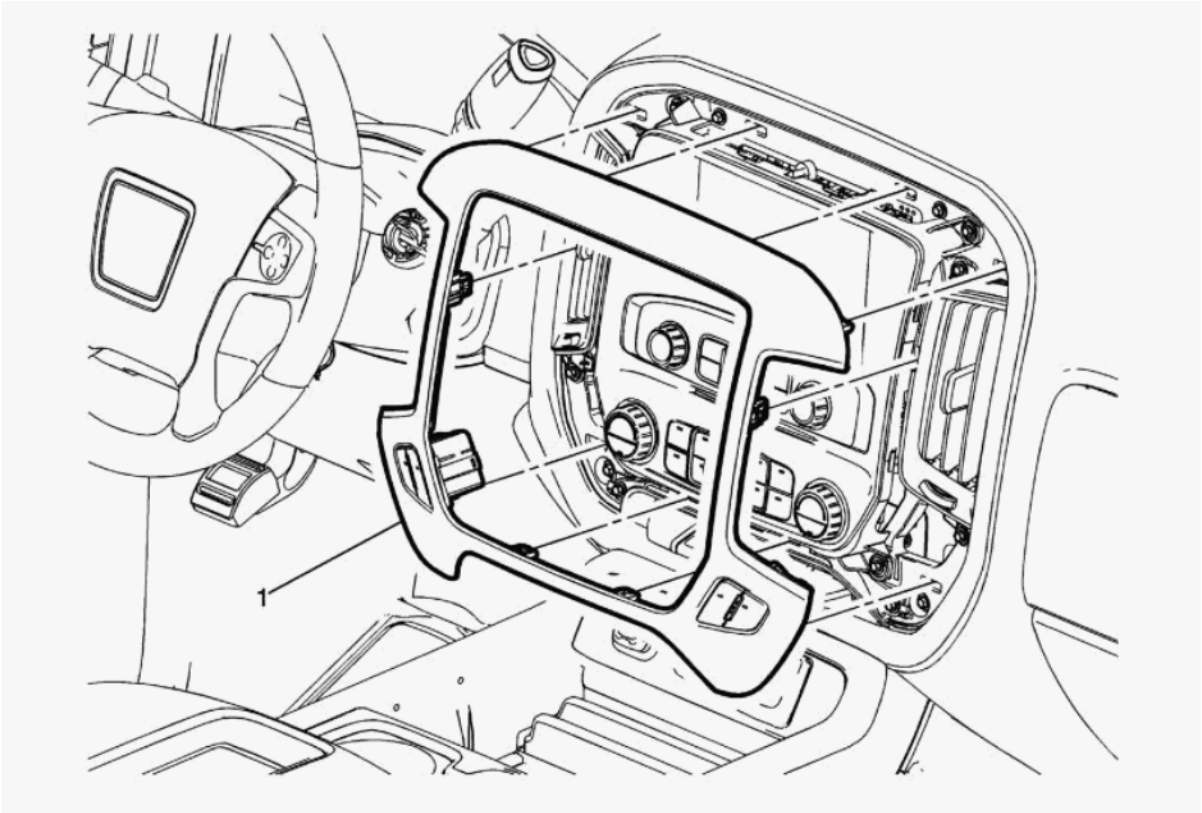


Fig. 9: Instrument Panel Accessory Bezel
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Accessory Bezel **Procedure** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the accessory bezel to the instrument panel assembly. 2. Disconnect the electrical connections, if equipped. 3. When replacing the bezel, transfer all necessary components.

INSTRUMENT PANEL FUSE BLOCK ACCESS HOLE COVER REPLACEMENT

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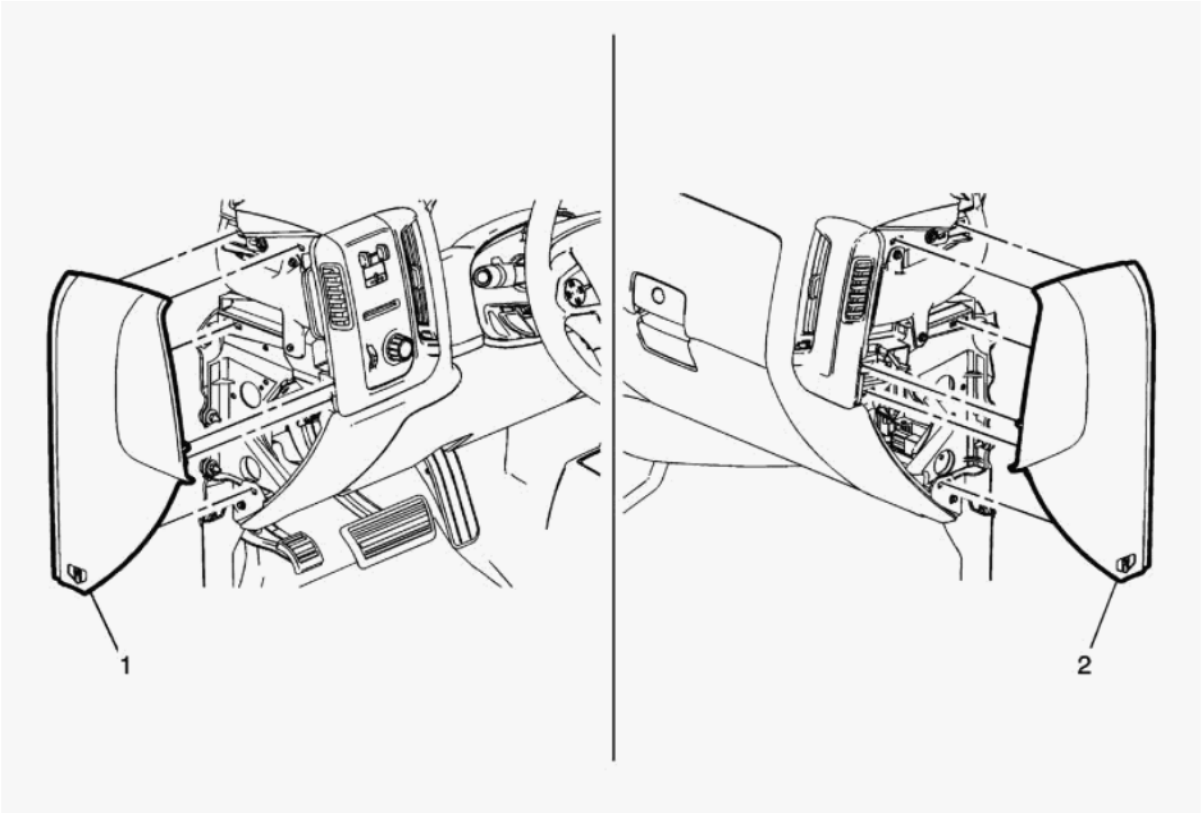


Fig. 10: Instrument Panel Fuse Block Access Hole Cover
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Fuse Block Access Hole Cover - Left Side **Procedure** Use a flat bladed plastic trim tool to aid in the removal of the cover from the instrument panel assembly.
2	Instrument Panel Fuse Block Access Hole Cover - Right Side **Procedure** Use a flat bladed plastic trim tool to aid in the removal of the cover from the instrument panel assembly.

INSTRUMENT PANEL CLUSTER TRIM PLATE REPLACEMENT

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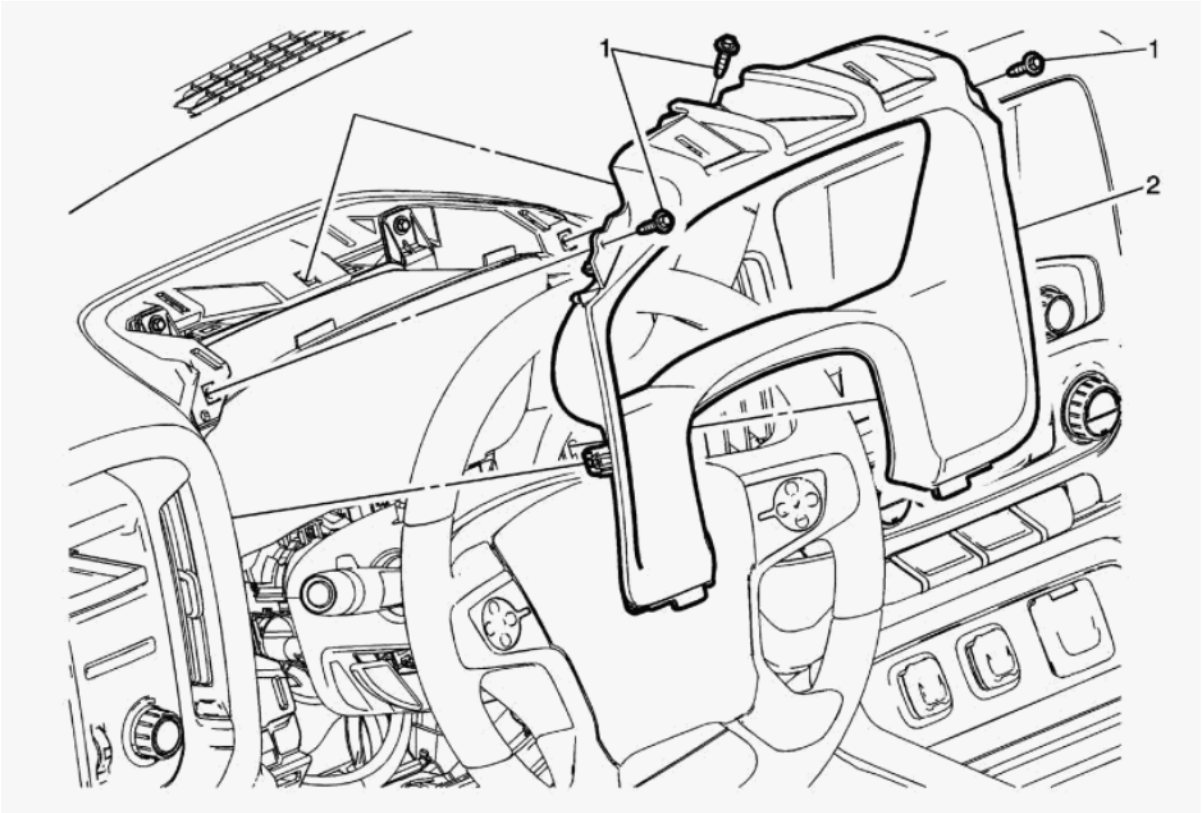


Fig. 11: Instrument Panel Cluster Trim Plate
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the instrument panel instrument cluster hood. Refer to **Instrument Panel Instrument Cluster Hood Replacement**. 2. Remove the instrument panel knee bolster. Refer to **Instrument Panel Knee Bolster Replacement**.	
1	Instrument Panel Cluster Trim Plate Bolt (Qty: 3) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Cluster Trim Plate **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim plate to the instrument panel assembly.

INSTRUMENT PANEL LOWER CENTER TRIM PANEL REPLACEMENT

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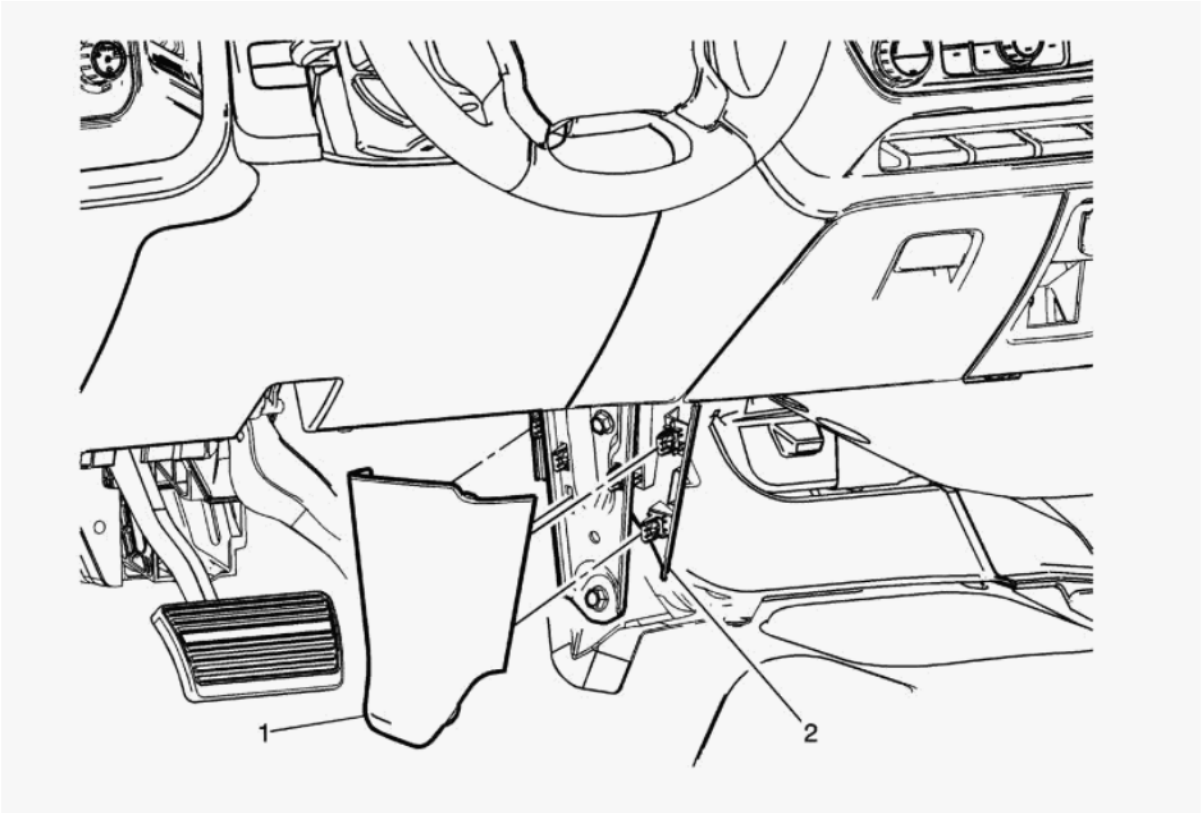


Fig. 12: Instrument Panel Lower Center Trim Panel
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Lower Center Trim Panel - Left Side **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim panel to the instrument panel tie bar brace.
2	Instrument Panel Lower Center Trim Panel - Right Side **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim panel to the instrument panel tie bar brace.

INSTRUMENT PANEL UPPER COMPARTMENT REPLACEMENT

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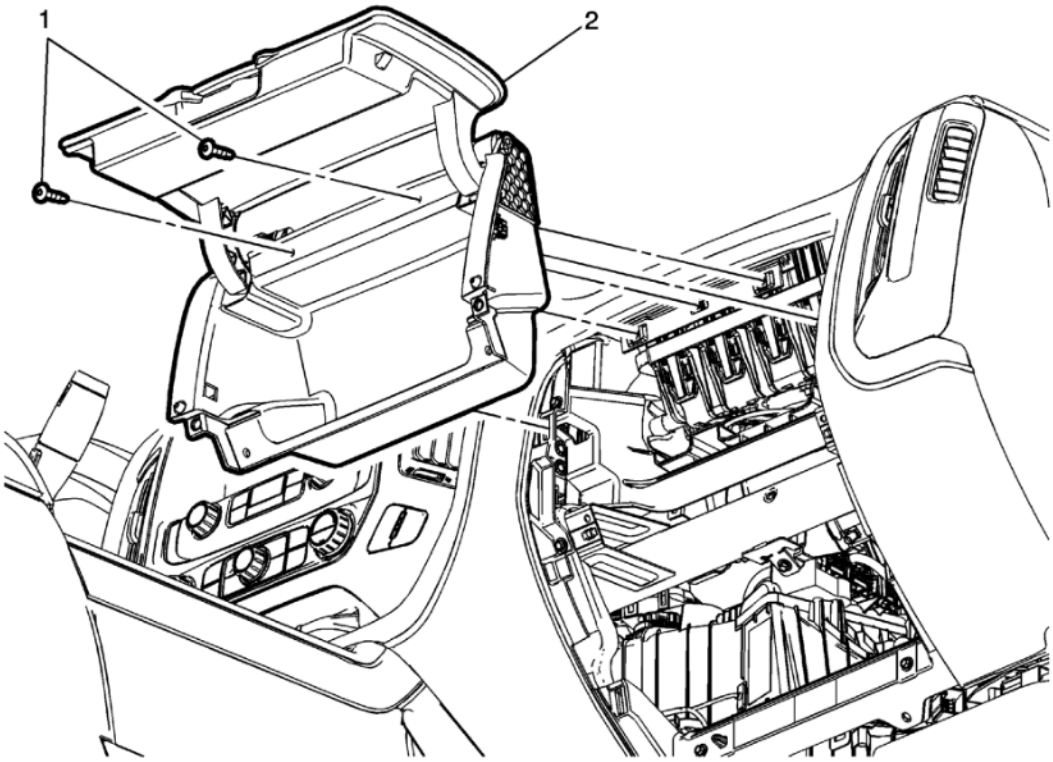


Fig. 13: Instrument Panel Upper Compartment
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the instrument panel compartment. Refer to **Instrument Panel Compartment Replacement**.	
1	Instrument Panel Compartment Bolt (Qty: 2) **CAUTION:** **Refer to** **Fastener** **Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Upper Compartment **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the compartment to the instrument panel assembly.

INSTRUMENT PANEL CENTER COMPARTMENT REPLACEMENT

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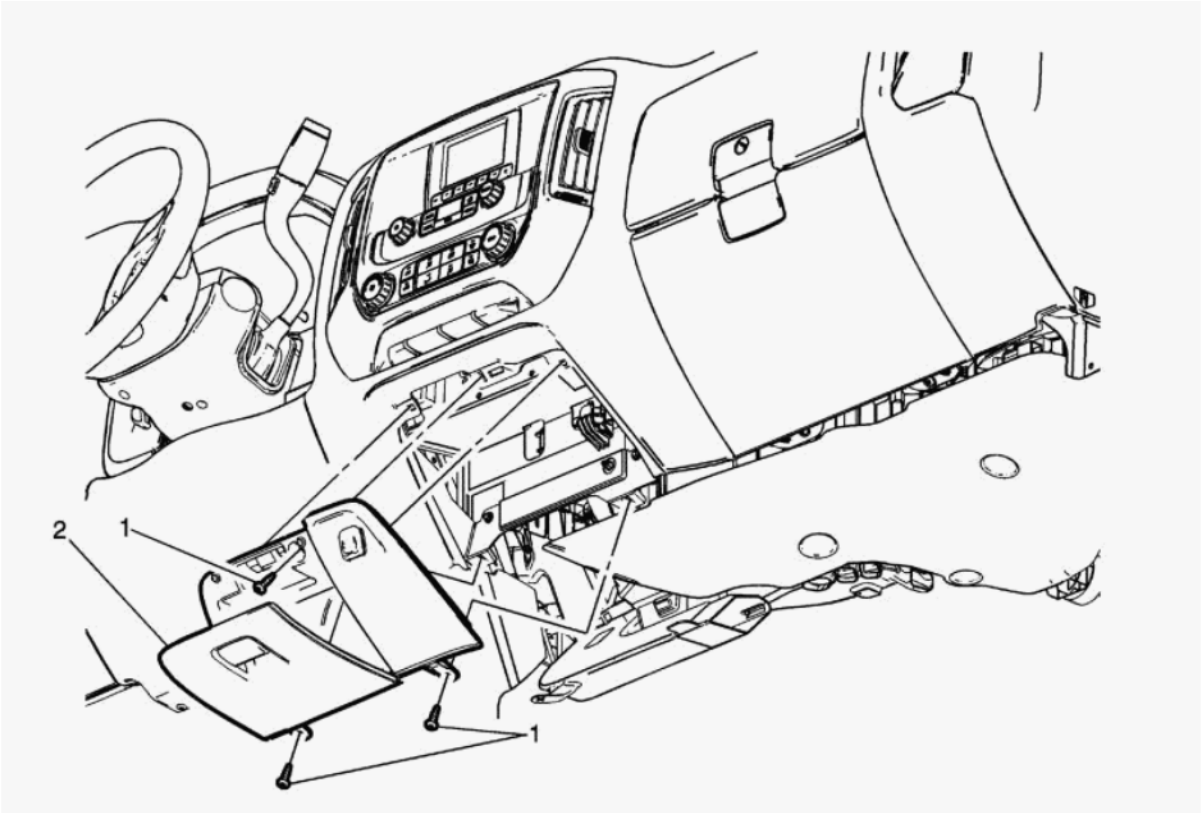


Fig. 14: Instrument Panel Center Compartment
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Center Compartment Bolt (Qty: 3) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Center Compartment **Procedure** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the compartment to the instrument panel assembly. 2. Disconnect the electrical connection. 3. When replacing the compartment, transfer all necessary components.

INSTRUMENT PANEL COMPARTMENT REPLACEMENT

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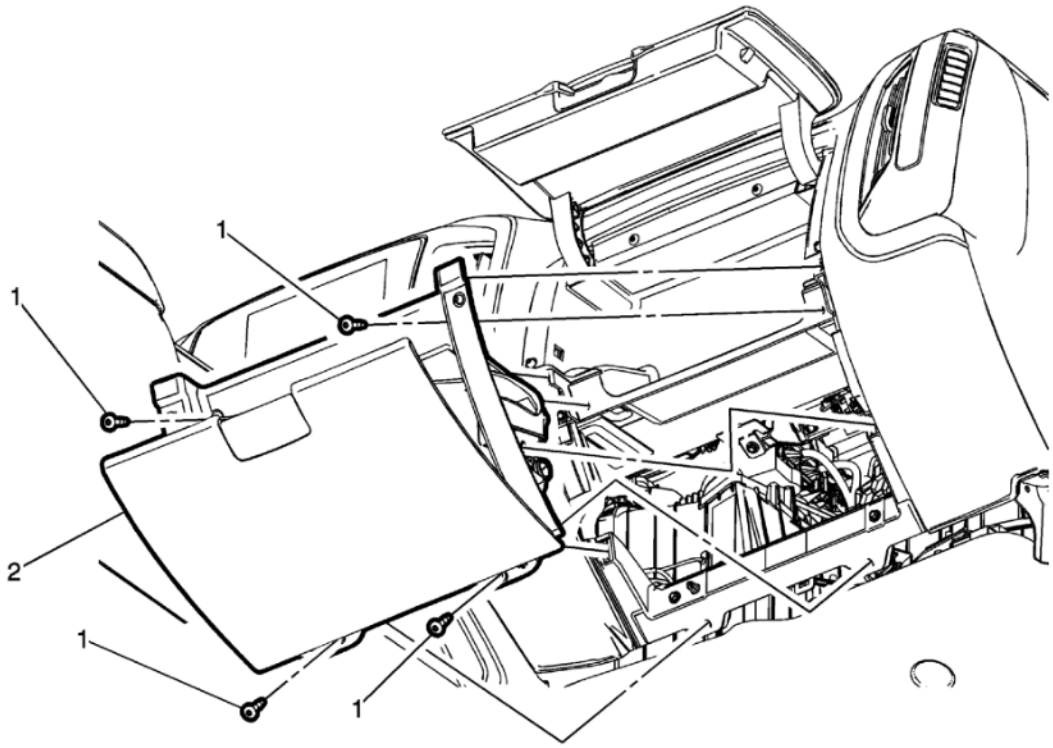


Fig. 15: Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Compartment Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Compartment **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the compartment to the instrument panel assembly.

INSTRUMENT PANEL COMPARTMENT DOOR LOCK CYLINDER REPLACEMENT

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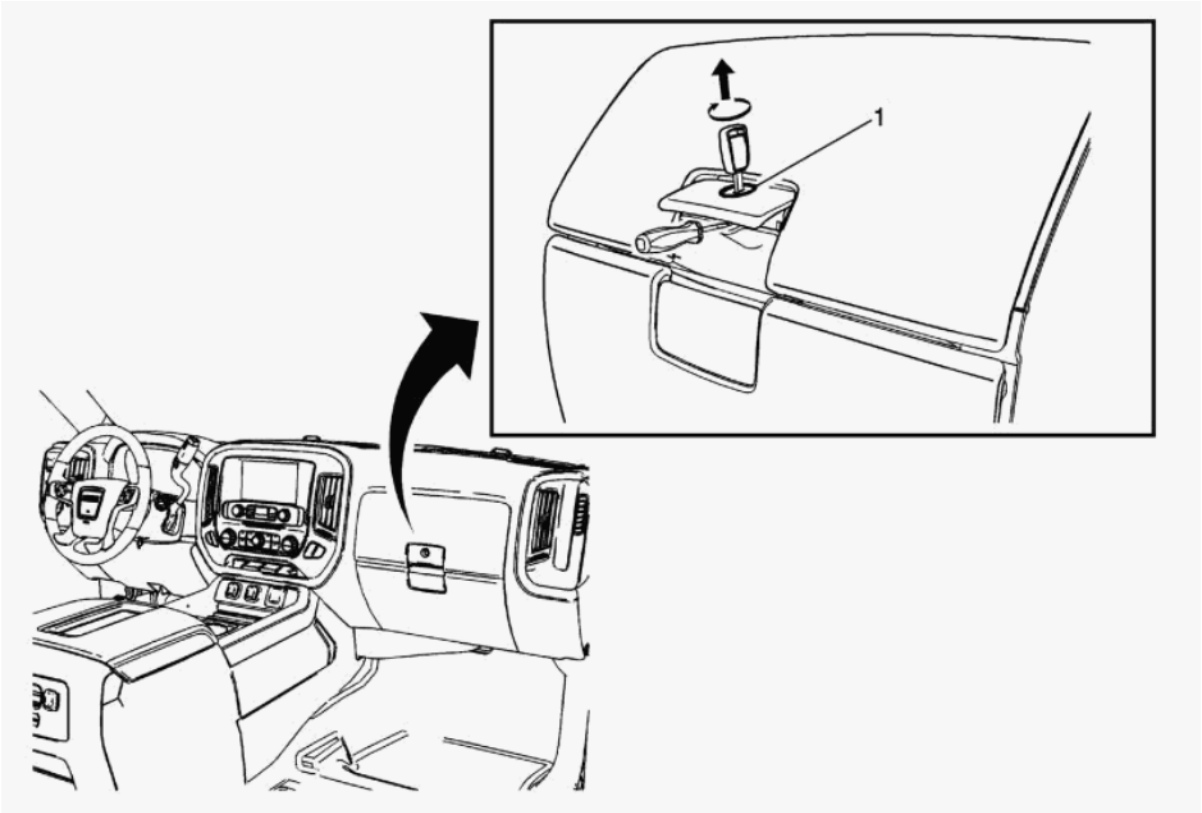


Fig. 16: Instrument Panel Compartment Door Lock Cylinder
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Compartment Door Lock Cylinder **Procedures** 1. Insert the key into the instrument panel compartment door lock cylinder. 2. Position the latch in the up position to access the poke hole. 3. Rotate the instrument panel compartment lock cylinder clockwise to the 3 o'clock position with the key. 4. Apply a light load with a suitable tool and depress the retainer tumbler through the poke hole on the latch assembly. 5. Rotate the key until the instrument panel compartment door lock cylinder rotates to about 5 o'clock position. 6. Remove the instrument panel compartment lock cylinder from the latch by pulling on the key.

INSTRUMENT PANEL ASSEMBLY REMOVAL

Removal Procedure

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

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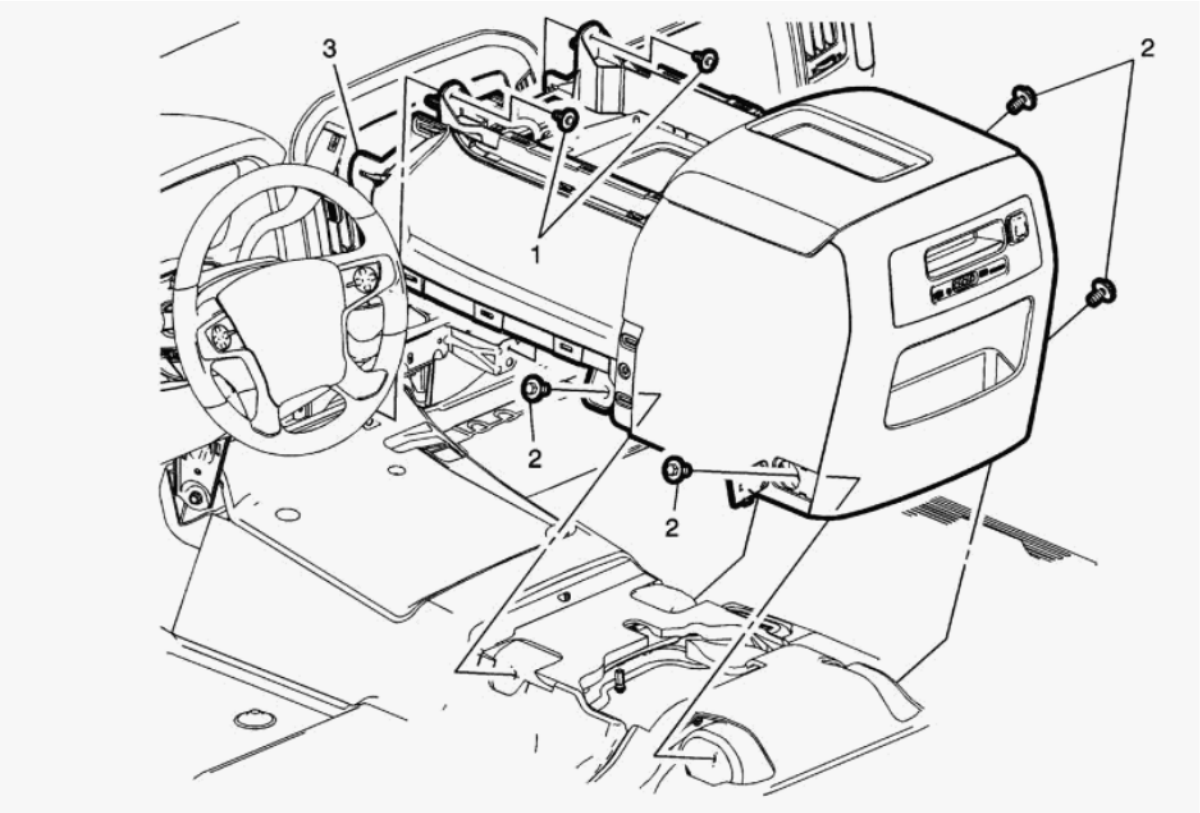
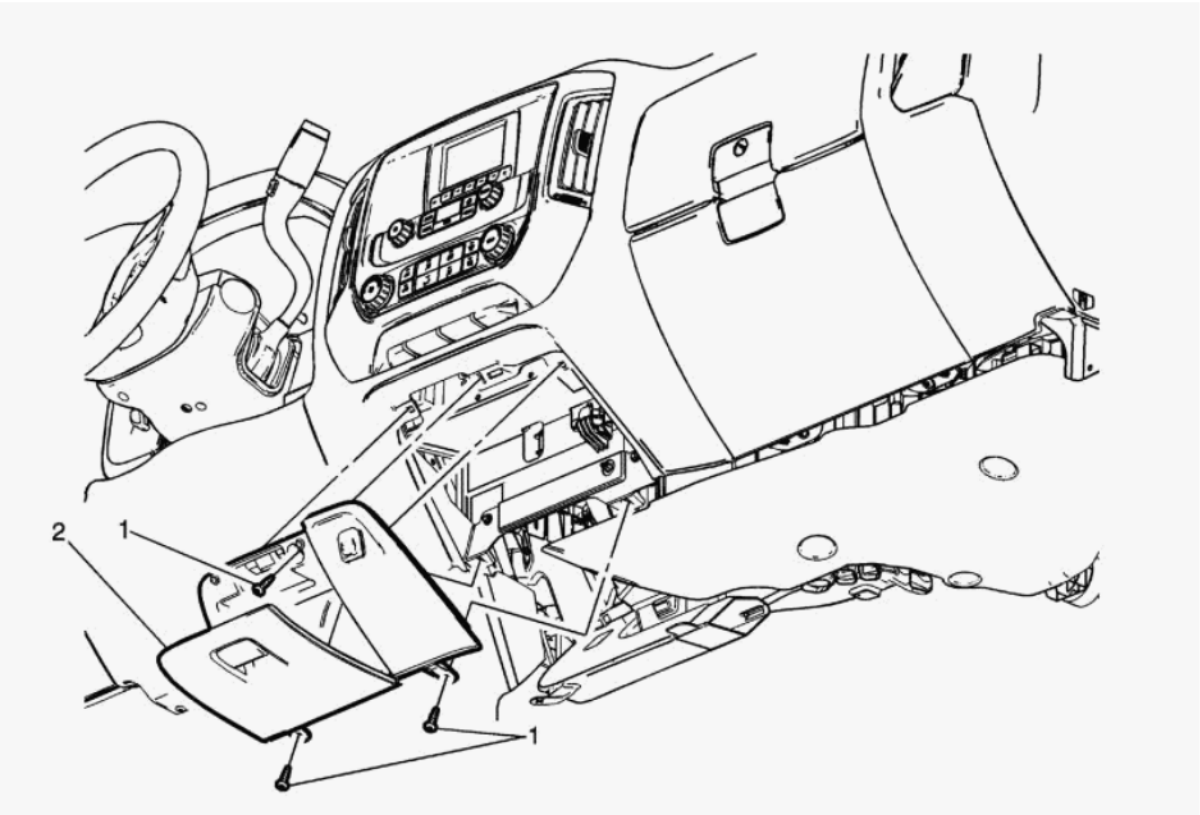


Fig. 17: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

2. Remove the front floor console (3), if equipped. Refer to **Front Floor Console Assembly Replacement (without HP5)Front Floor Console Assembly Replacement (with HP5)**.



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Fig. 18: Instrument Panel Center Compartment
Courtesy of GENERAL MOTORS COMPANY

3. Remove the instrument panel center compartment (2), if equipped. Refer to **Instrument Panel Center Compartment Replacement**.

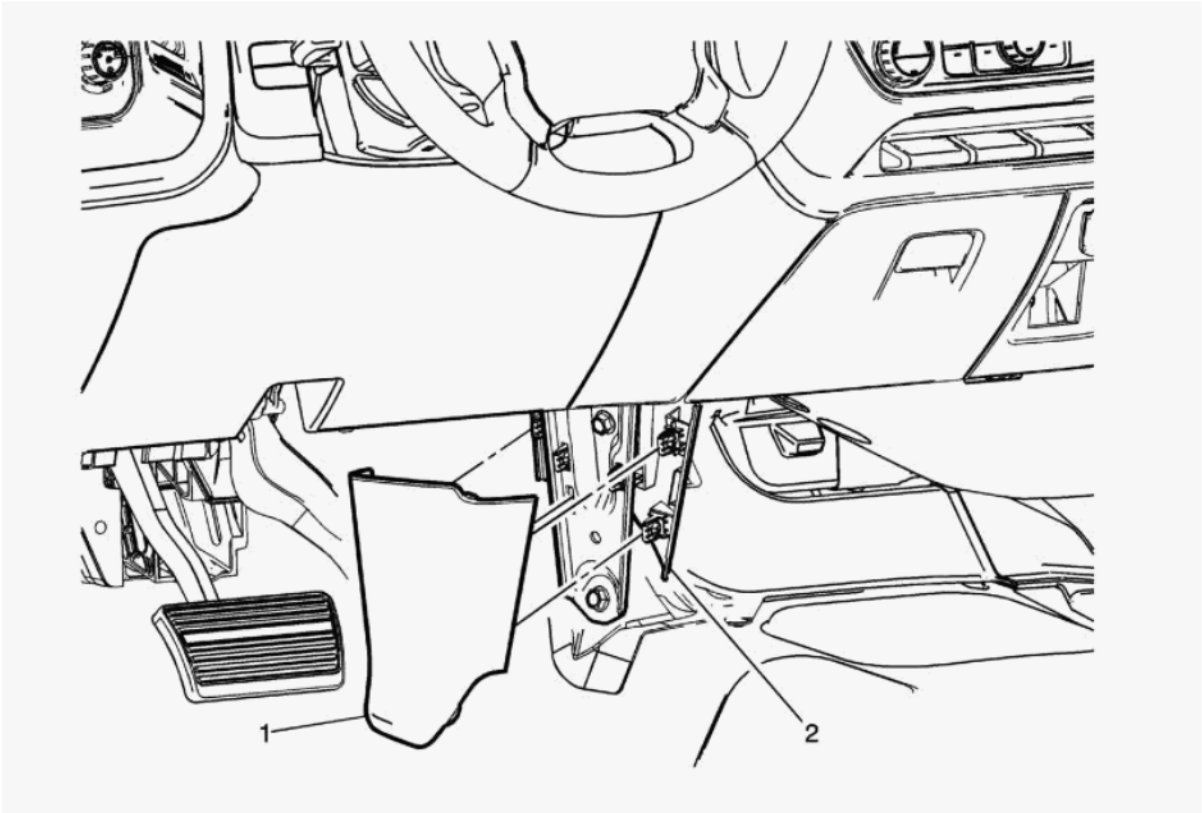


Fig. 19: Instrument Panel Lower Center Trim Panel
Courtesy of GENERAL MOTORS COMPANY

4. Remove the instrument panel lower center trim panel (1) and (2), if equipped. Refer to **Instrument Panel Lower Center Trim Panel Replacement**.

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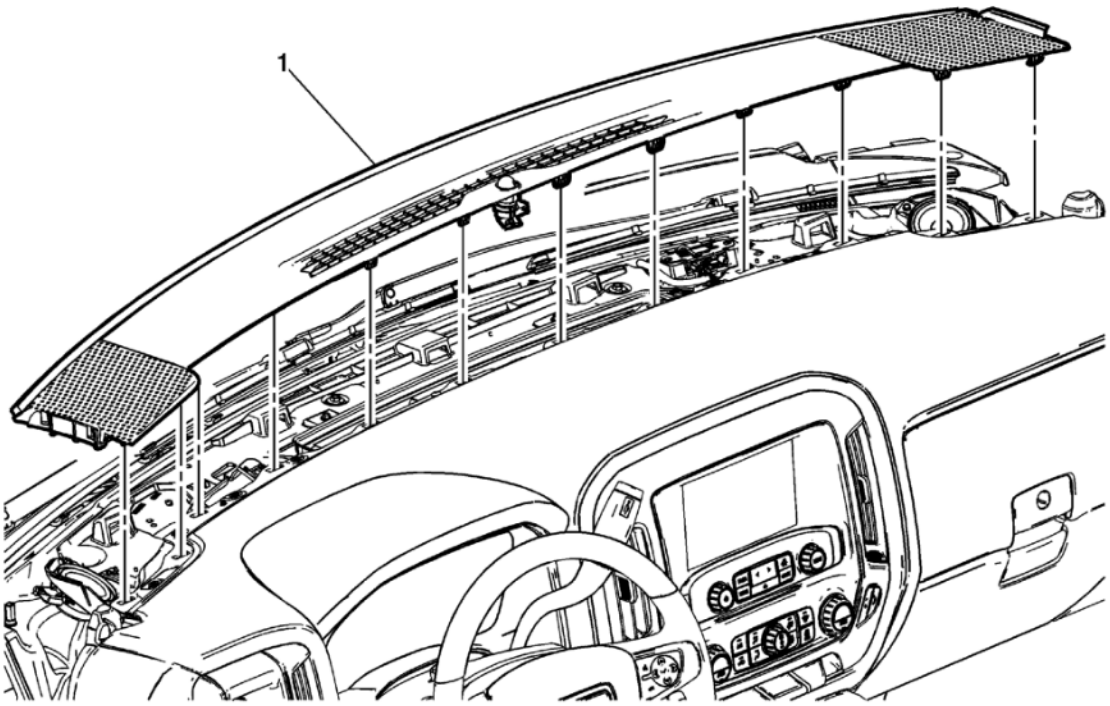


Fig. 20: Instrument Panel Extension
Courtesy of GENERAL MOTORS COMPANY

5. Remove the instrument panel extension (1). Refer to **Instrument Panel Extension Replacement**.

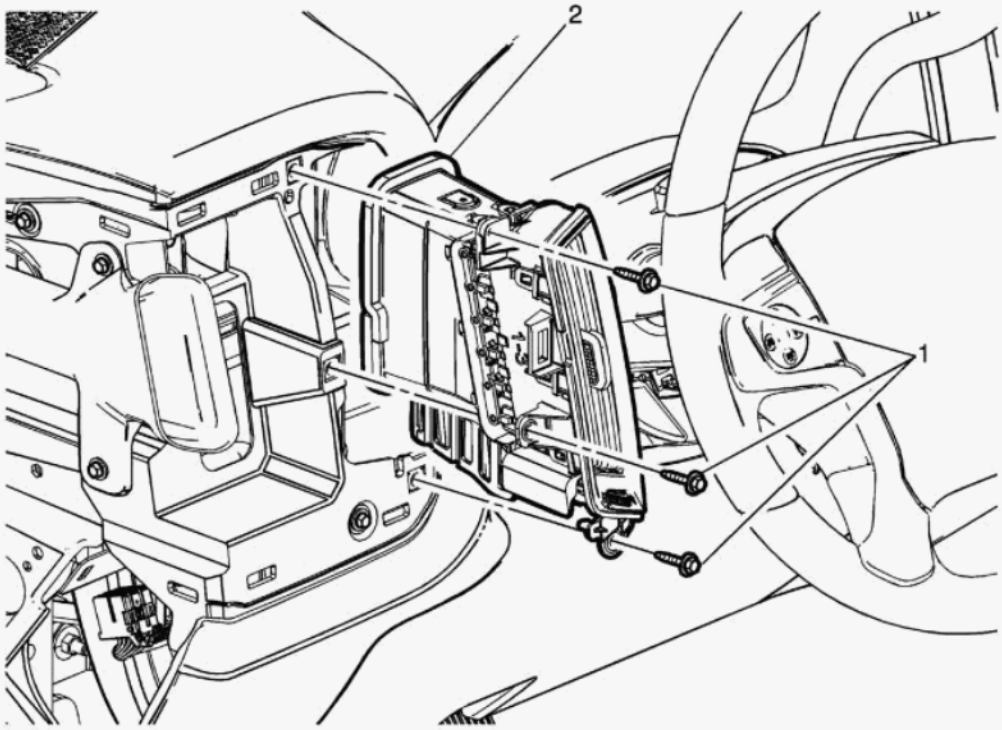


Fig. 21: Left Instrument Panel Outer Air Outlet

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Courtesy of GENERAL MOTORS COMPANY

6. Remove the left instrument panel outer air outlet (2). Refer to **Instrument Panel Outer Air Outlet Replacement - Left Side** .

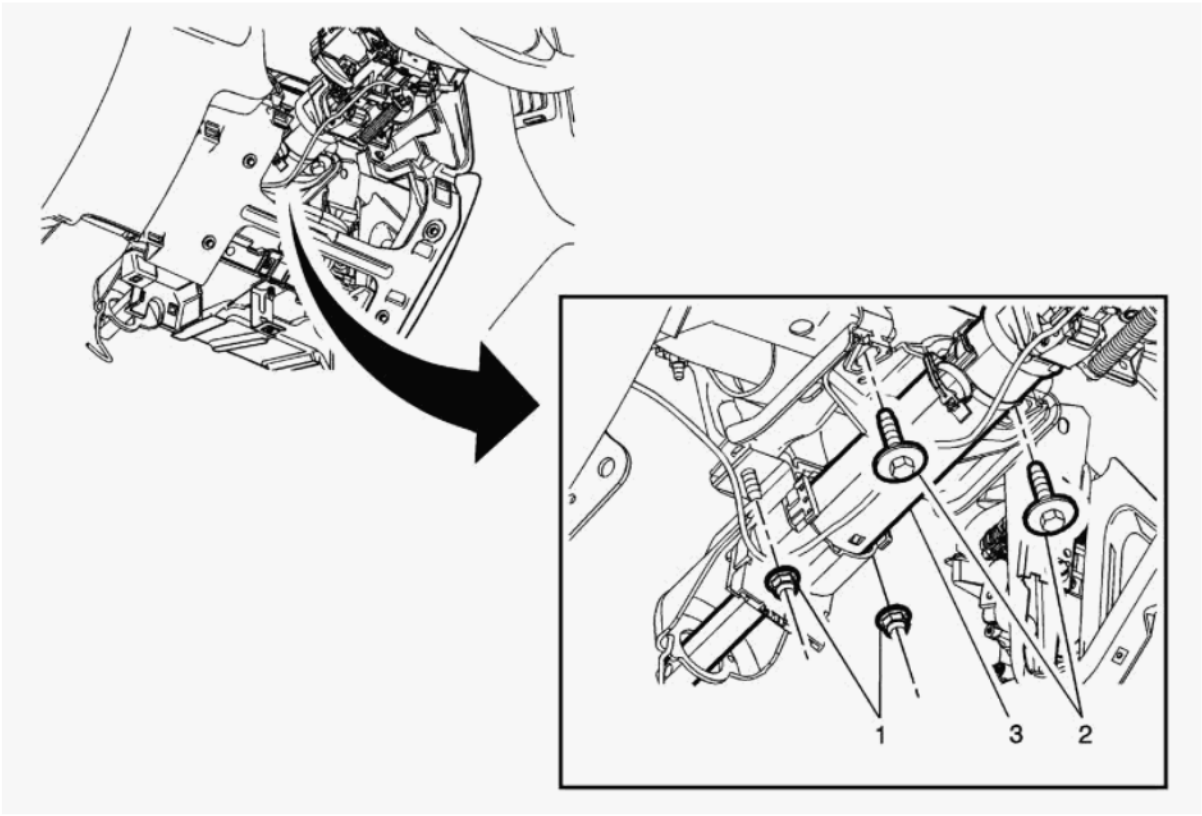


Fig. 22: Steering Column
Courtesy of GENERAL MOTORS COMPANY

7. Remove the steering column (3). Refer to **Steering Column Replacement** .

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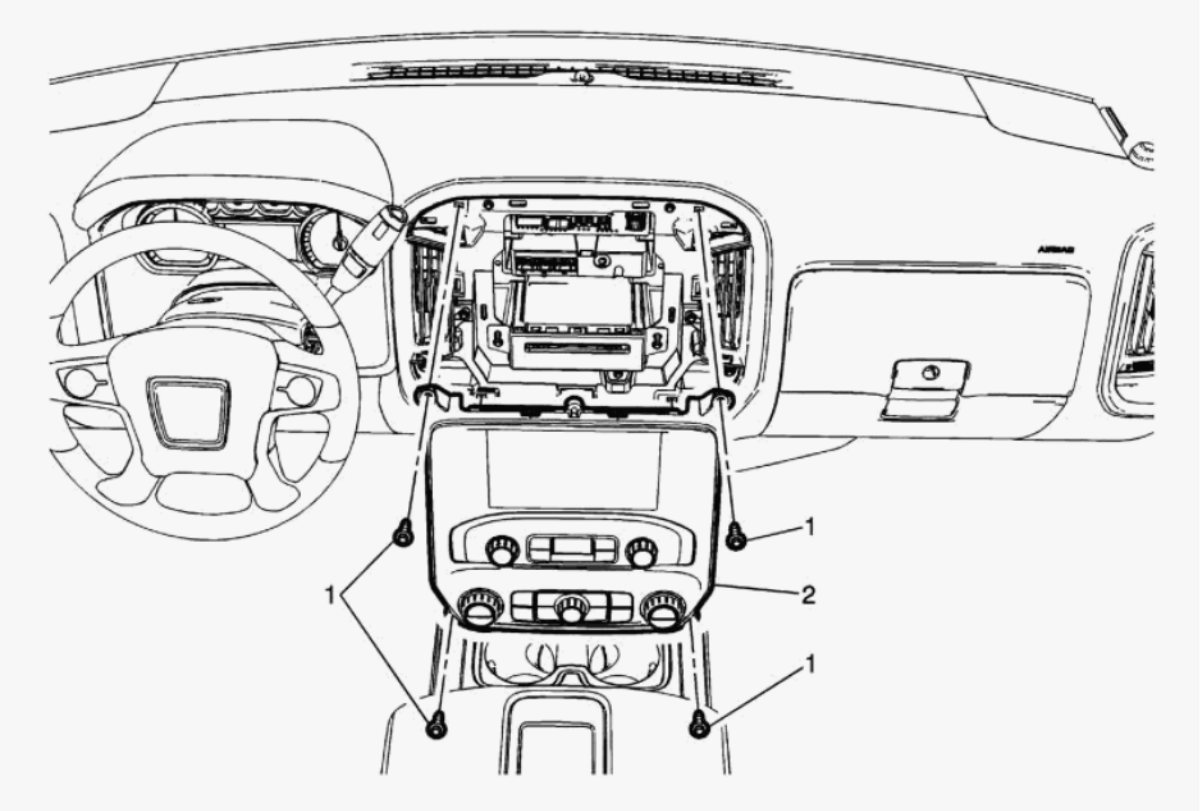


Fig. 23: Radio Control Assembly
Courtesy of GENERAL MOTORS COMPANY

8. Remove the radio control assembly (2). Refer to **Radio Control Assembly Replacement** .

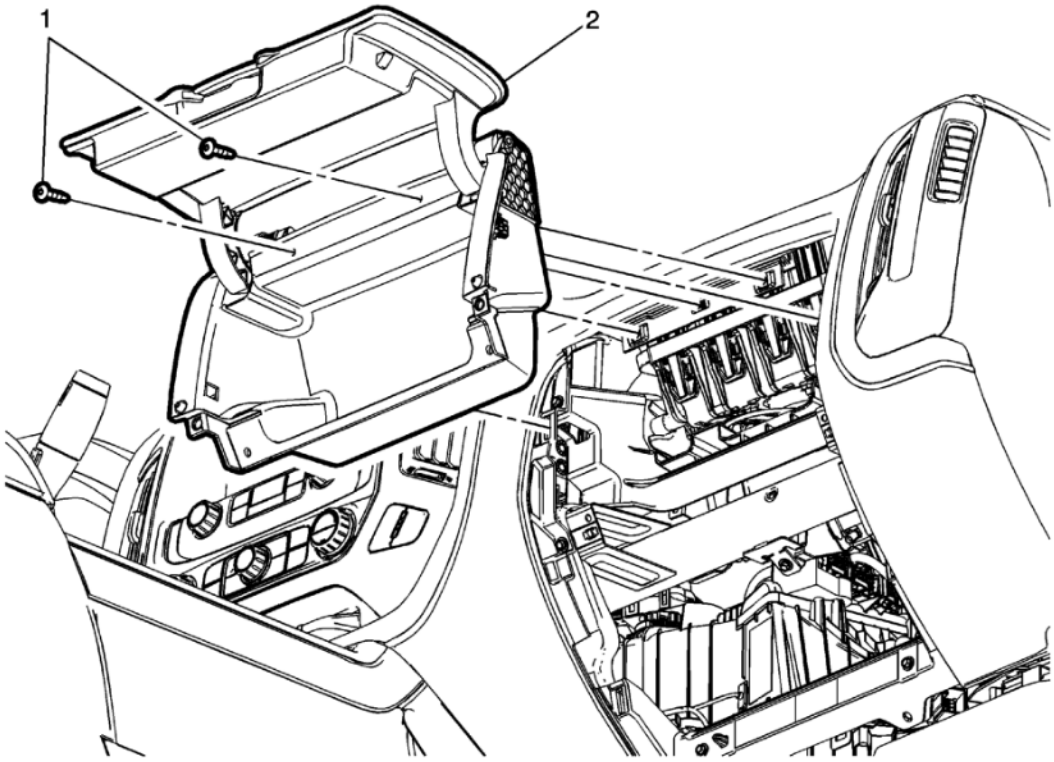


Fig. 24: Instrument Panel Upper Compartment

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Courtesy of GENERAL MOTORS COMPANY

9. Remove the instrument panel upper compartment (2). Refer to **Instrument Panel Upper Compartment Replacement**.

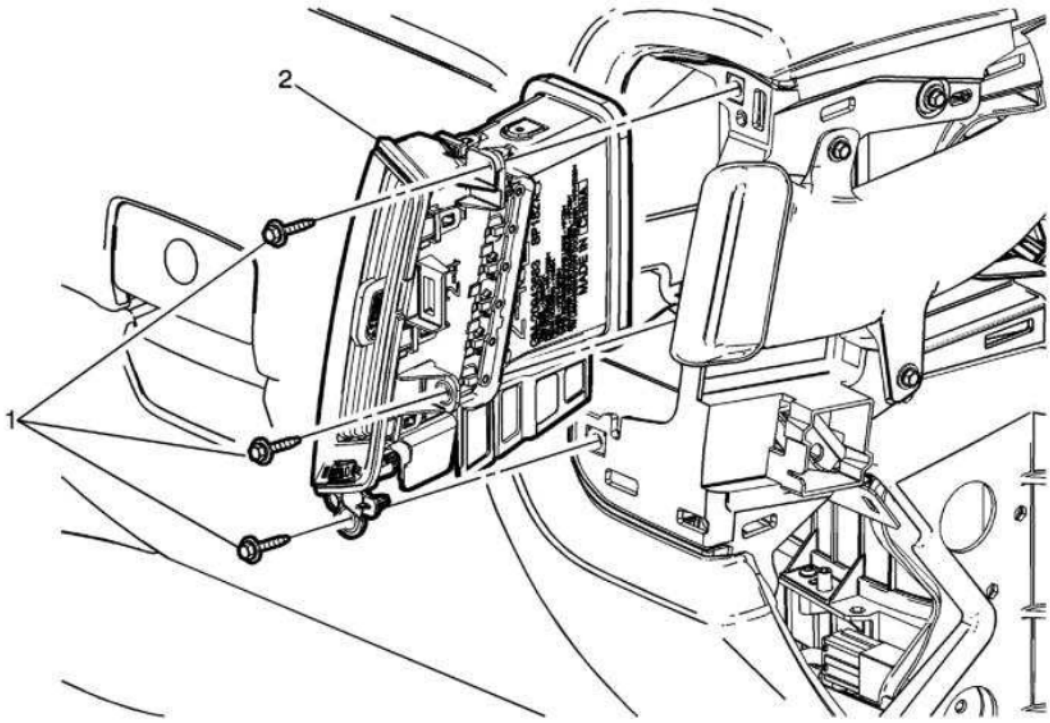


Fig. 25: Right Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

10. Remove the right instrument panel outer air outlet (2). Refer to **Instrument Panel Outer Air Outlet Replacement - Right Side** .

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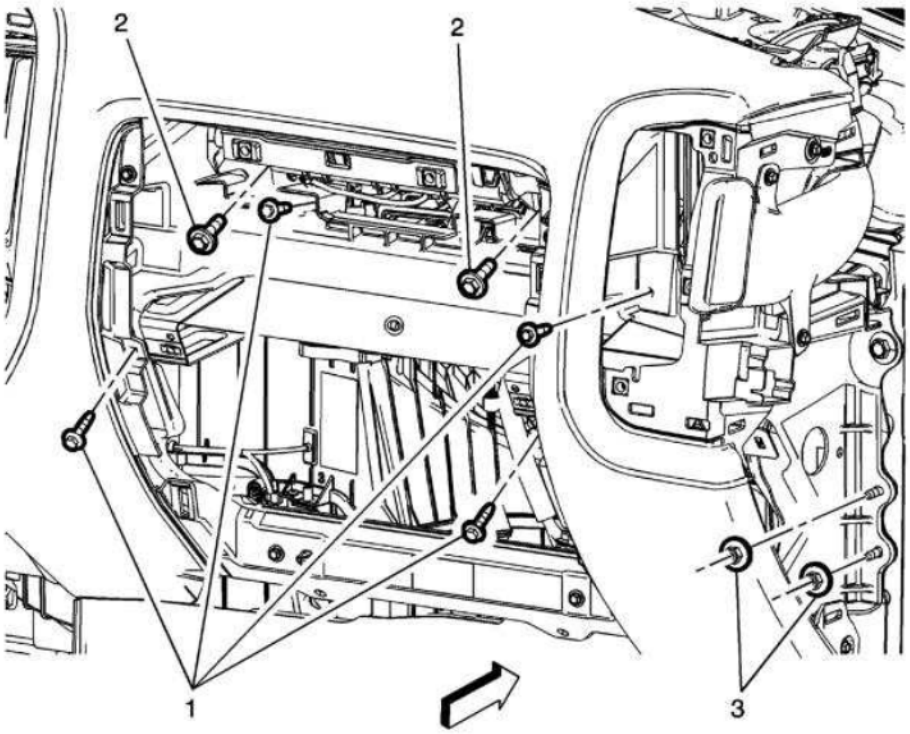


Fig. 26: Instrument Panel Assembly Fasteners
Courtesy of GENERAL MOTORS COMPANY

11. Remove the instrument panel assembly fasteners (1).
12. Remove the instrument panel inflatable restraint module fasteners (2).
13. Remove the instrument panel carrier fasteners (3).

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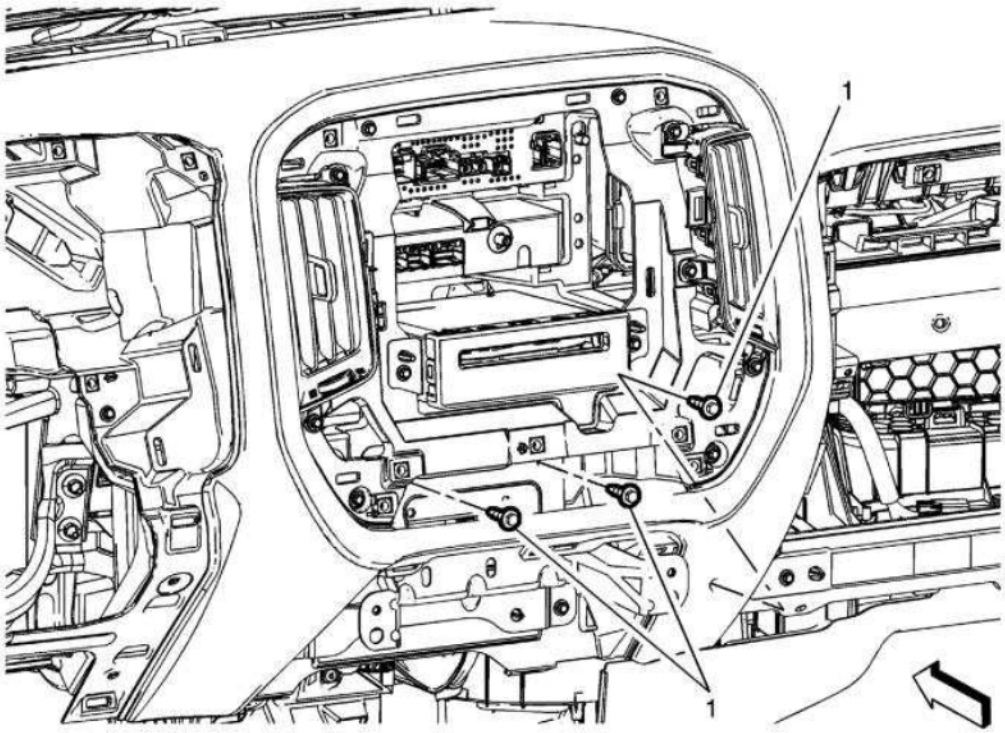


Fig. 27: Instrument Panel Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

14. Remove the instrument panel carrier fasteners (1).

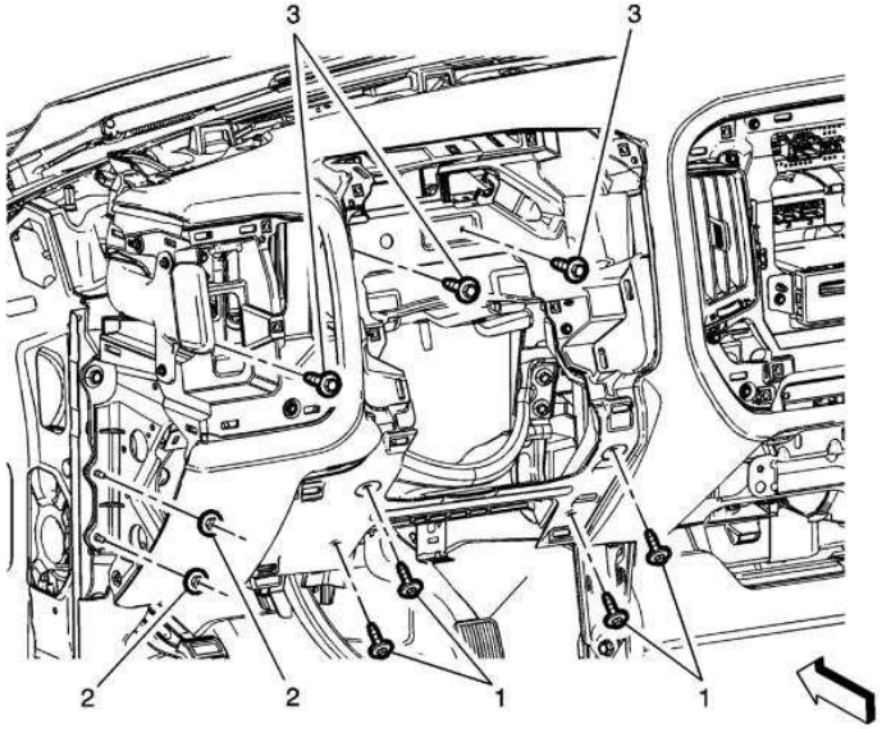


Fig. 28: Instrument Panel Lower Fasteners

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Courtesy of GENERAL MOTORS COMPANY

15. Remove the instrument panel lower fasteners (1).
16. Remove the instrument panel carrier fasteners (2).
17. Remove the instrument panel assembly fasteners (3).
18. Disconnect the data link connector.

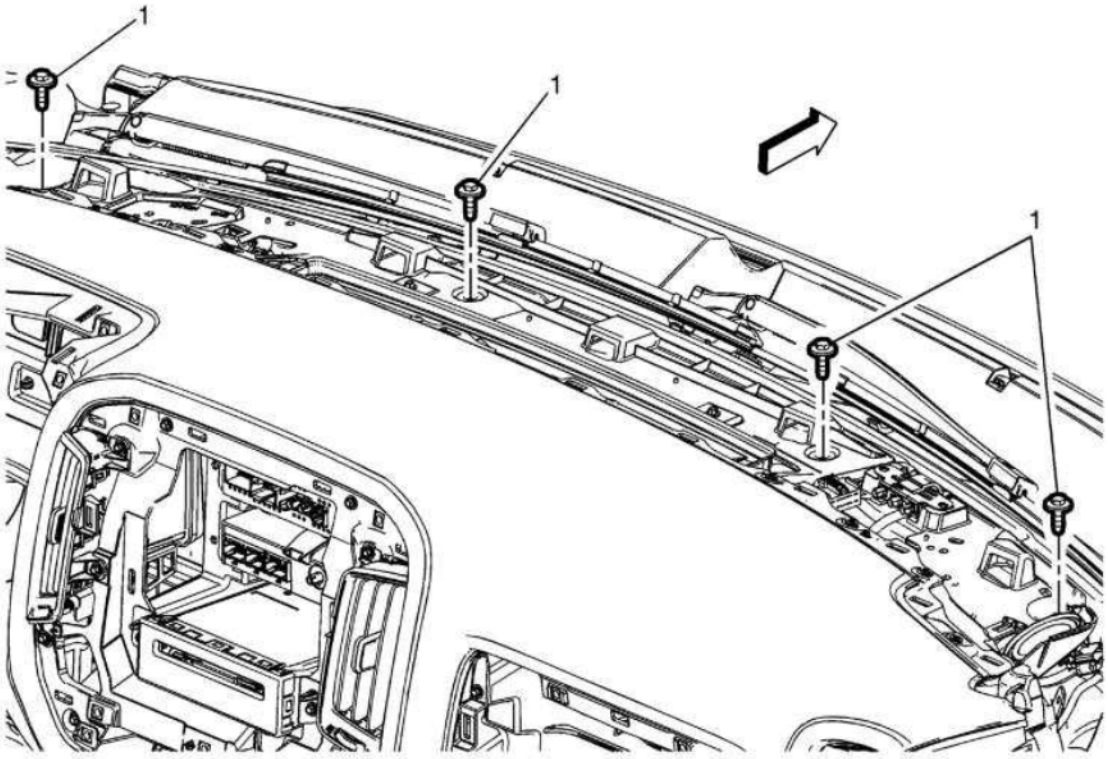


Fig. 29: Instrument Panel Upper Trim Panel Fasteners
Courtesy of GENERAL MOTORS COMPANY

19. Remove the instrument panel upper trim panel fasteners (1).

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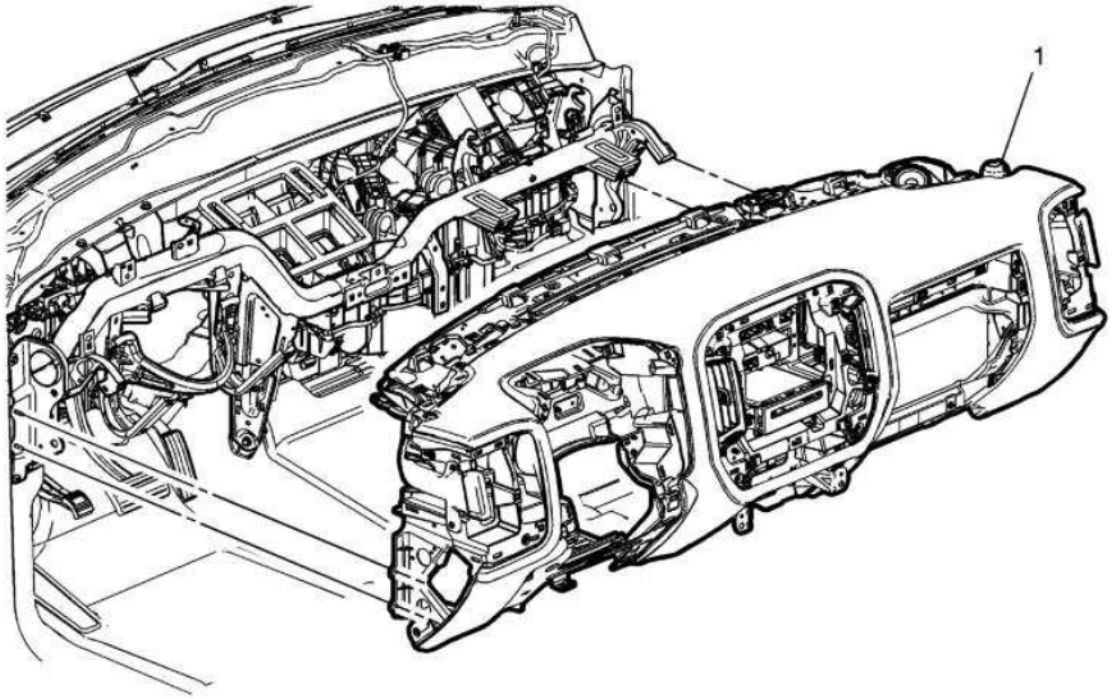


Fig. 30: Instrument Panel Assembly
Courtesy of GENERAL MOTORS COMPANY

20. Note location and routing of the instrument panel wiring harness prior to removal of the instrument panel assembly to ensure proper reinstallation.
21. Disconnect the wiring harness from the instrument panel assembly.
22. When removing the instrument panel assembly (1) apply tape to the edges of instrument panel to prevent marring.
23. With the aid of an assistant, remove the instrument panel assembly (1) from the vehicle.
24. When replacing the instrument panel assembly (1), transfer all necessary components.

Installation Procedure

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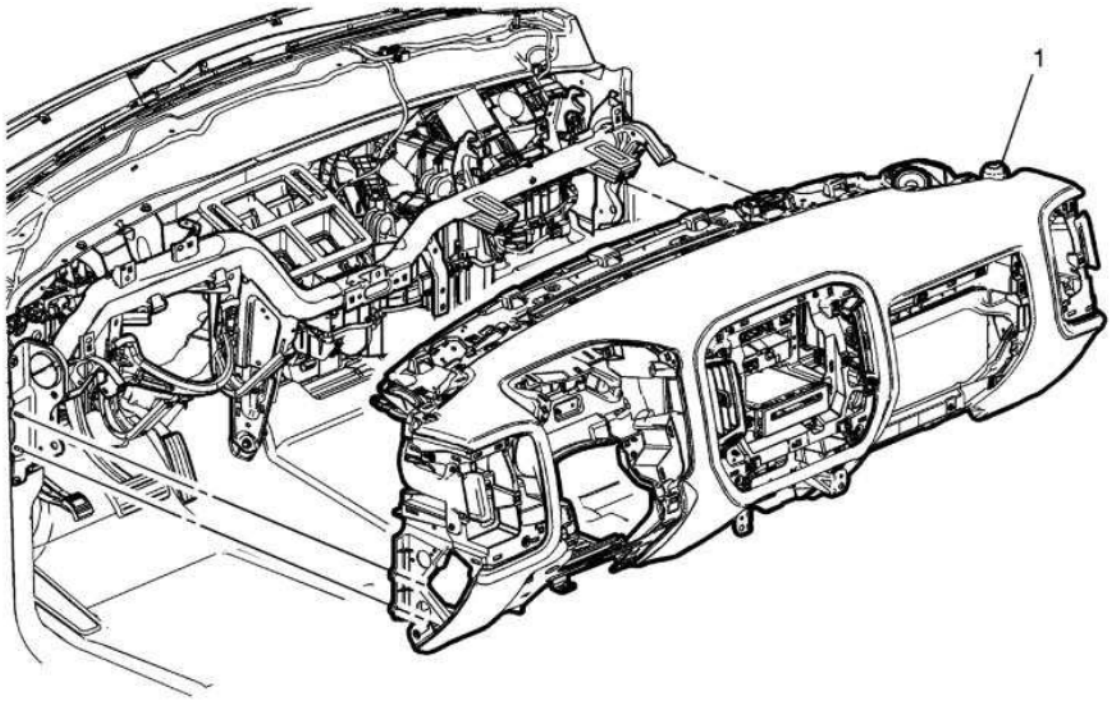


Fig. 31: Instrument Panel Assembly
Courtesy of GENERAL MOTORS COMPANY

1. When replacing the instrument panel assembly apply tape to the edges of the new panel.
2. With the aid of an assistant, position the instrument panel assembly (1) into the vehicle.
3. Reposition the instrument panel wiring harness into vehicle position as was noted in the removal process and connect the fasteners securing the instrument panel wiring harness to the instrument panel assembly.

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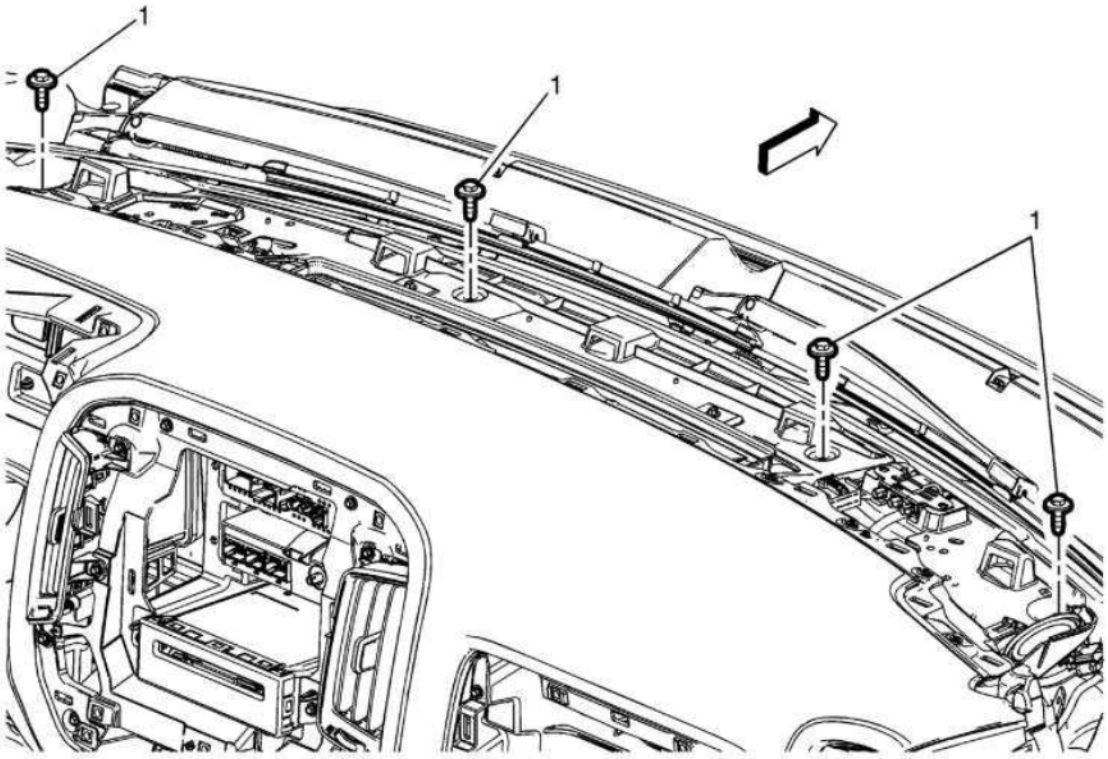
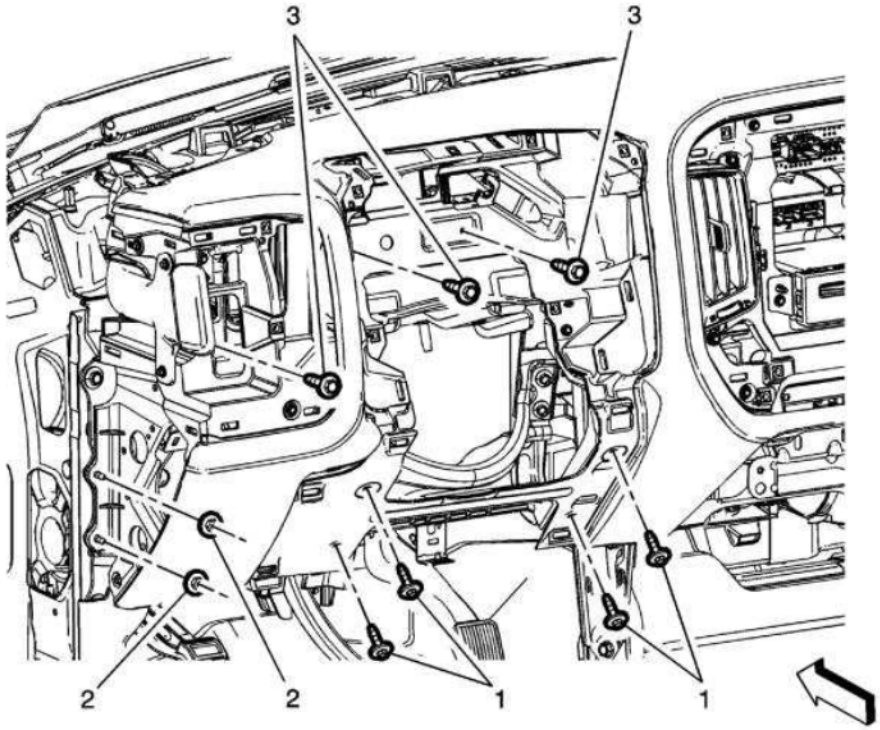


Fig. 32: Instrument Panel Upper Trim Panel Fasteners
Courtesy of GENERAL MOTORS COMPANY

CAUTION: **Refer to Fastener Caution .**

4. Install the instrument panel upper trim panel fasteners (1) and tighten to 9 N.m (80 lb in).



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Fig. 33: Instrument Panel Lower Fasteners
Courtesy of GENERAL MOTORS COMPANY

5. Install the instrument panel lower fasteners (1) and tighten to 2.5 N.m (22 lb in).
6. Install the instrument panel carrier fasteners (2) and tighten to 9 N.m (80 lb in).
7. Install the instrument panel assembly fasteners (3) and tighten to 2.5 N.m (22 lb in).
8. Connect the data link connector.

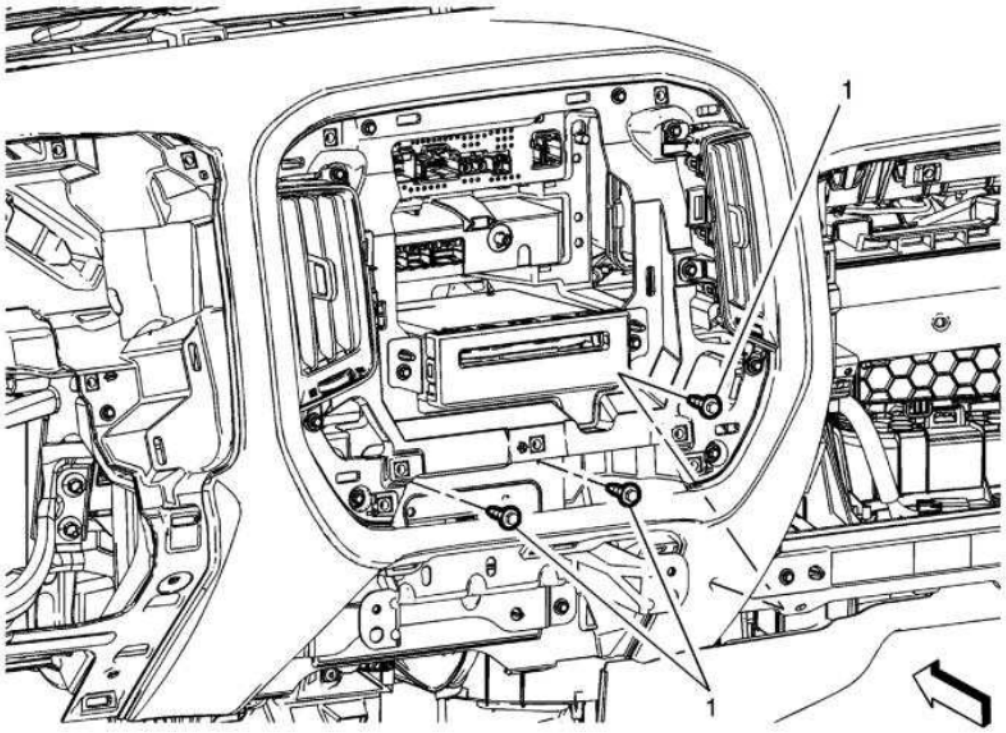


Fig. 34: Instrument Panel Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

9. Install the instrument carrier fasteners (1) and tighten to 2.5 N.m (22 lb in).

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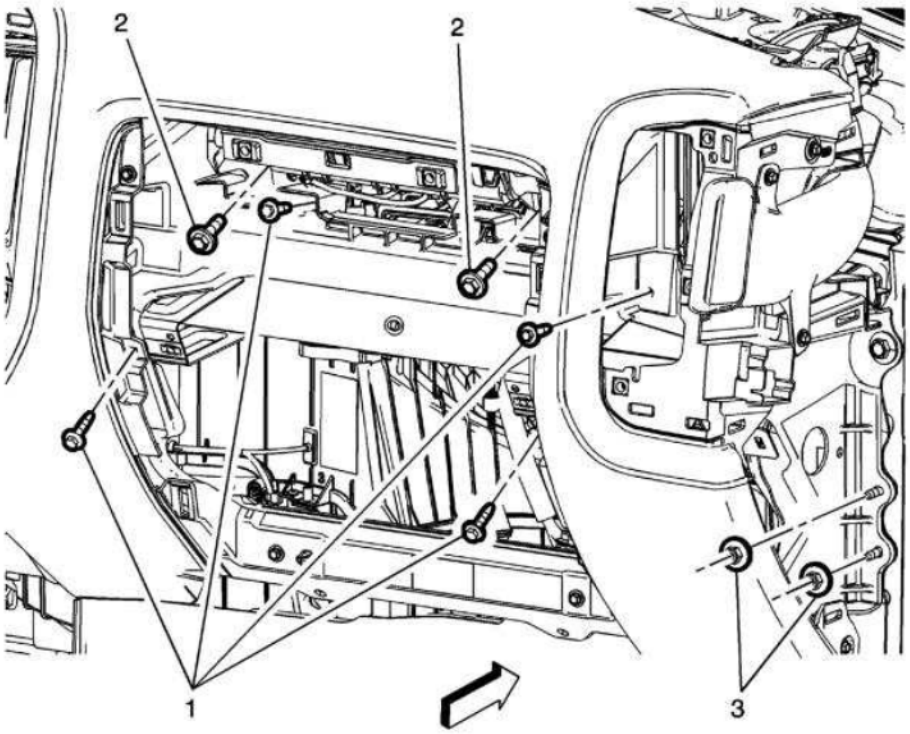


Fig. 35: Instrument Panel Assembly Fasteners
Courtesy of GENERAL MOTORS COMPANY

10. Install the instrument panel assembly fasteners (1) and tighten to 2.5 N.m (22 lb in).
11. Install the instrument panel inflatable restraint module fasteners (2) and tighten to 9 N.m (80 lb in).
12. Install the instrument panel carrier fasteners (3) and tighten to 9 N.m (80 lb in).

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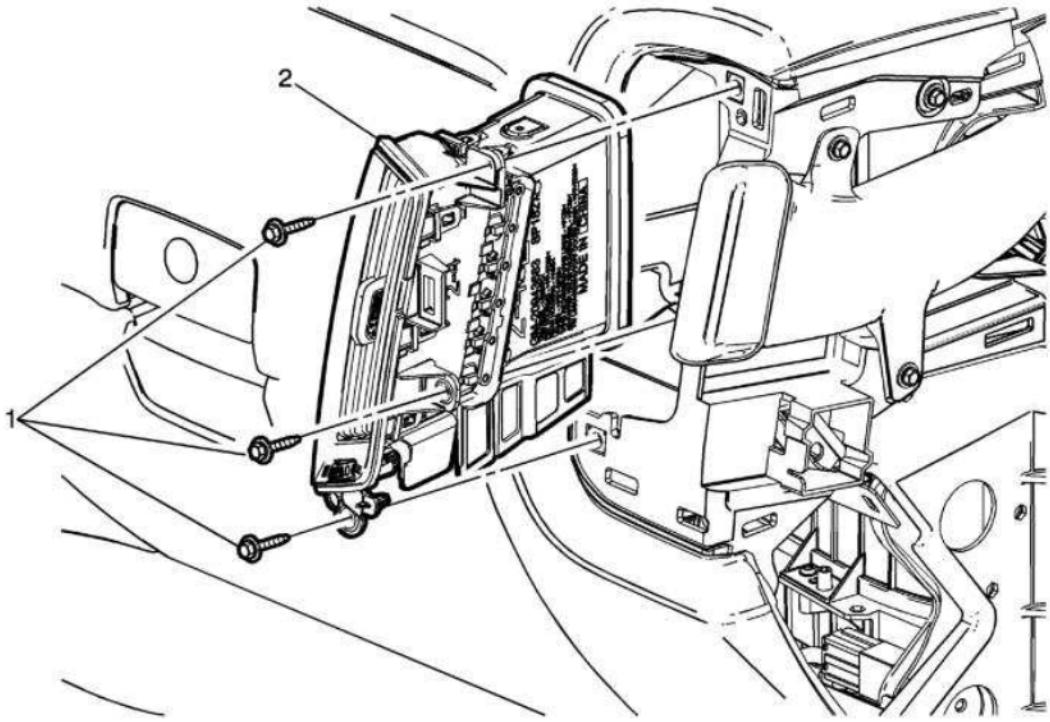
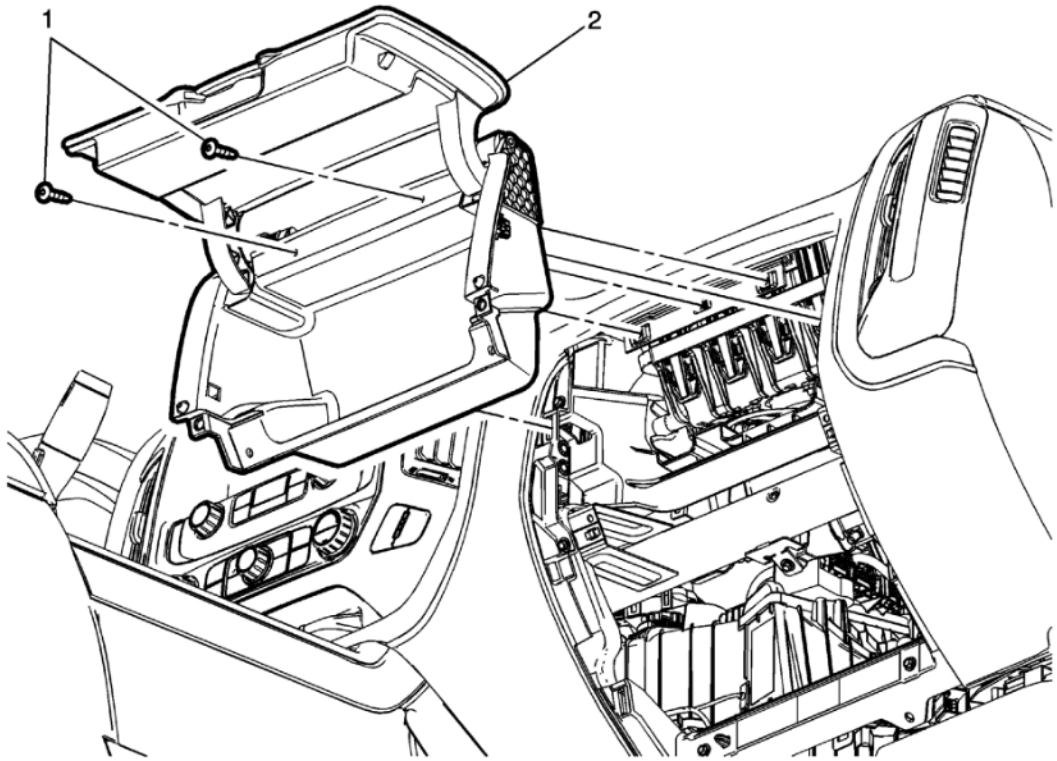


Fig. 36: Right Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

13. Install the right instrument panel outer air outlet (2). Refer to **Instrument Panel Outer Air Outlet Replacement - Right Side** .



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Fig. 37: Instrument Panel Upper Compartment
Courtesy of GENERAL MOTORS COMPANY

14. Install the instrument panel upper compartment (2). Refer to **Instrument Panel Upper Compartment Replacement**.

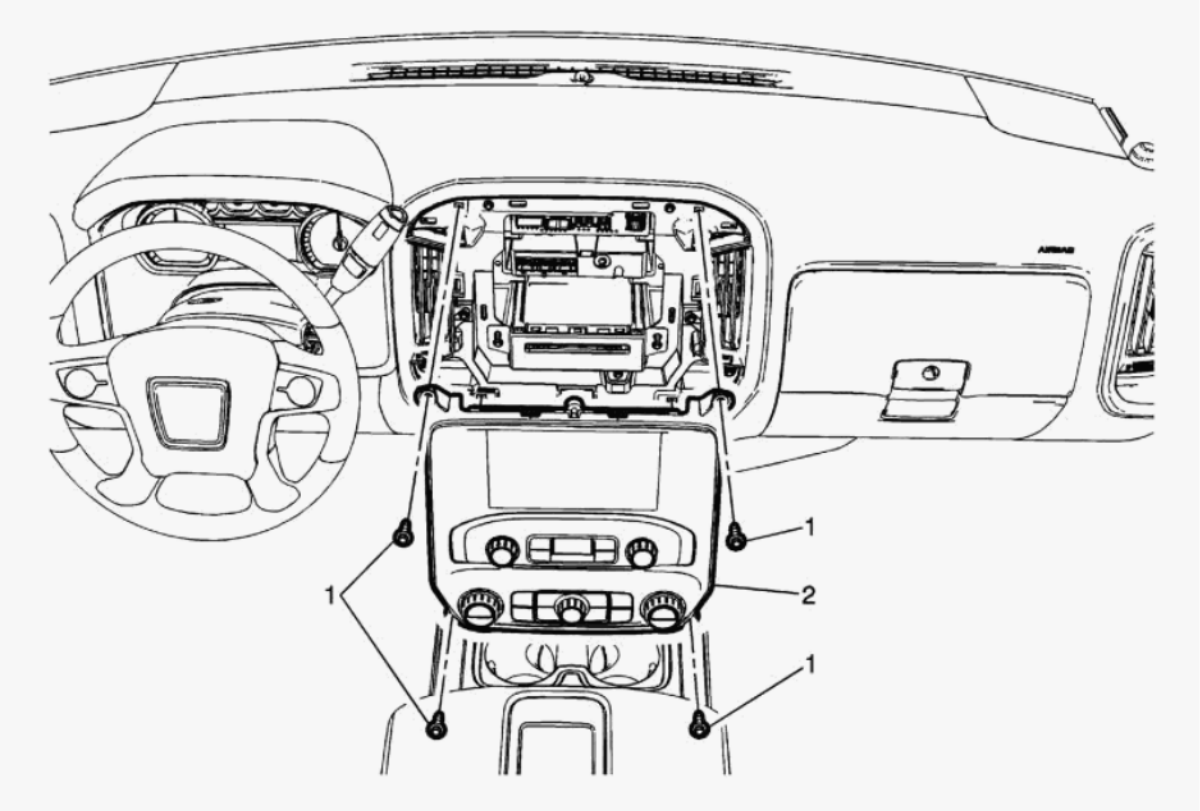


Fig. 38: Radio Control Assembly
Courtesy of GENERAL MOTORS COMPANY

15. Install the radio control assembly (2). Refer to **Radio Control Assembly Replacement** .

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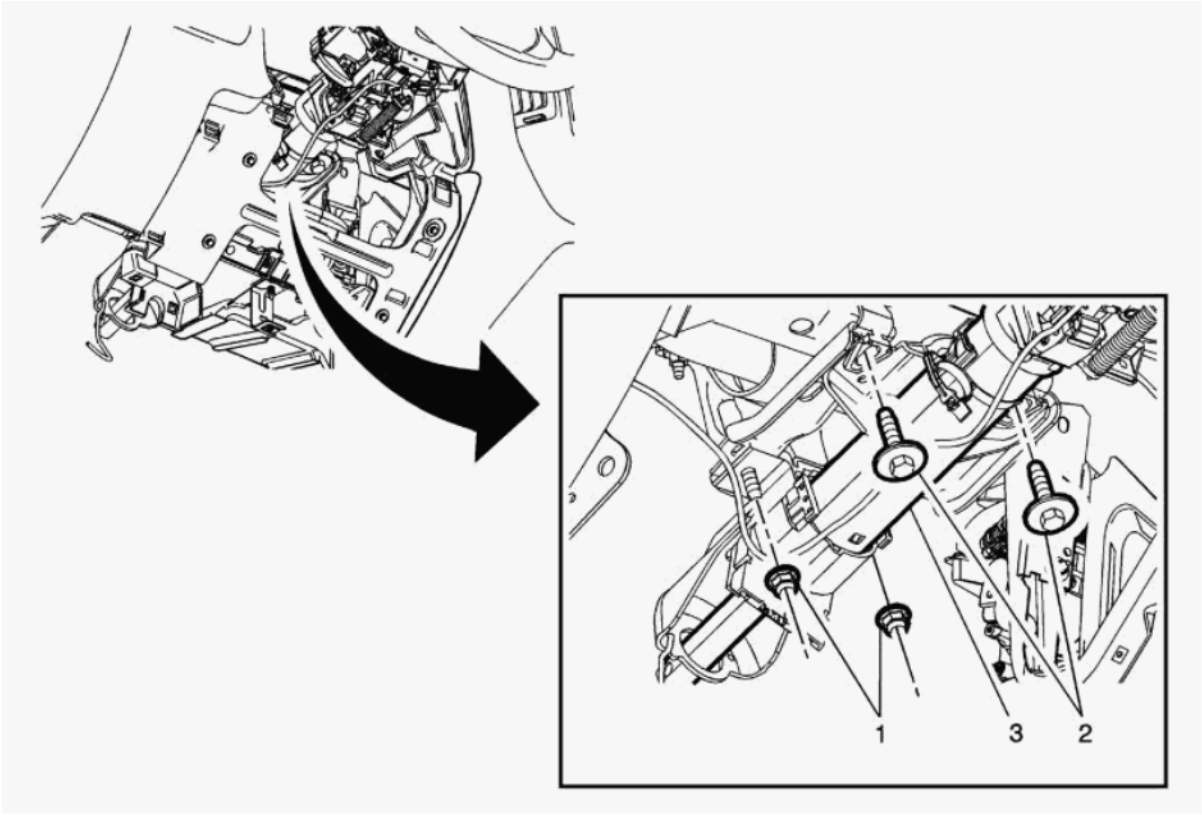


Fig. 39: Steering Column
Courtesy of GENERAL MOTORS COMPANY

16. Install the steering column (3). Refer to **Steering Column Replacement** .

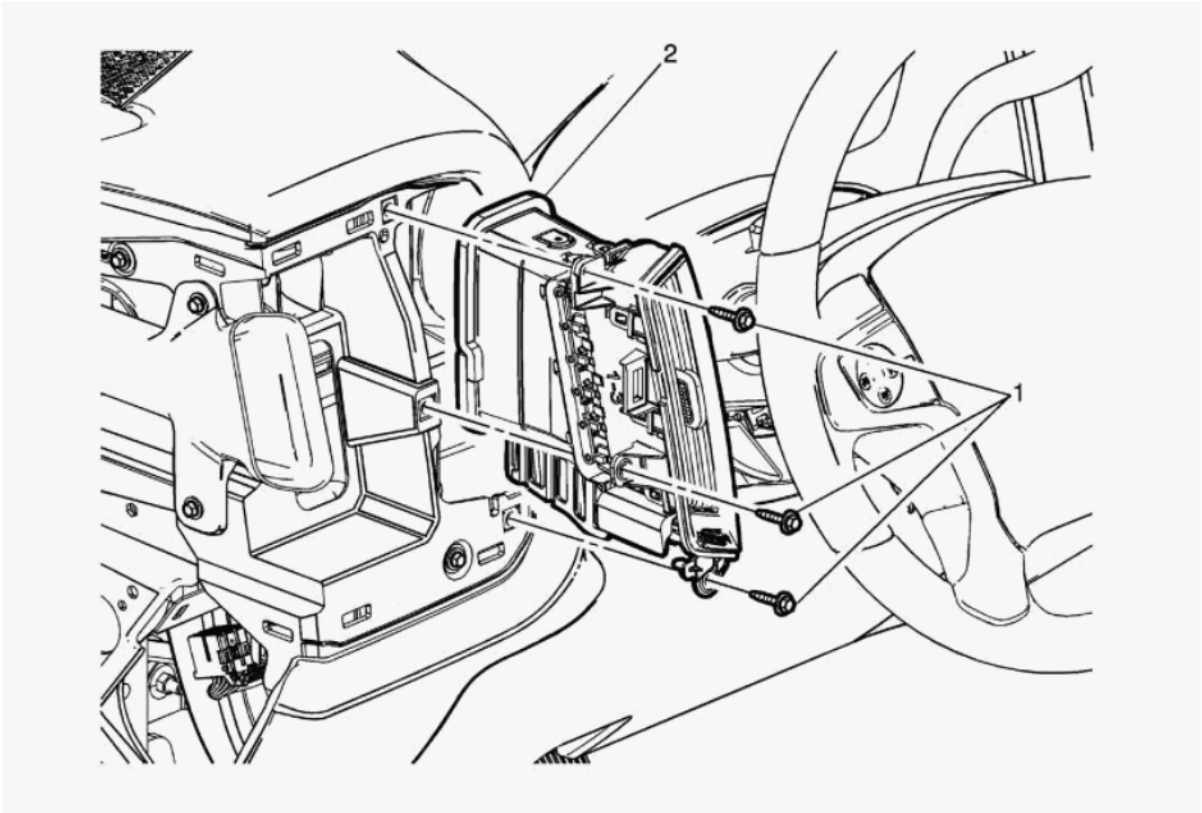


Fig. 40: Left Instrument Panel Outer Air Outlet

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Courtesy of GENERAL MOTORS COMPANY

17. Install the left instrument panel outer air outlet (2). Refer to **Instrument Panel Outer Air Outlet Replacement - Left Side** .

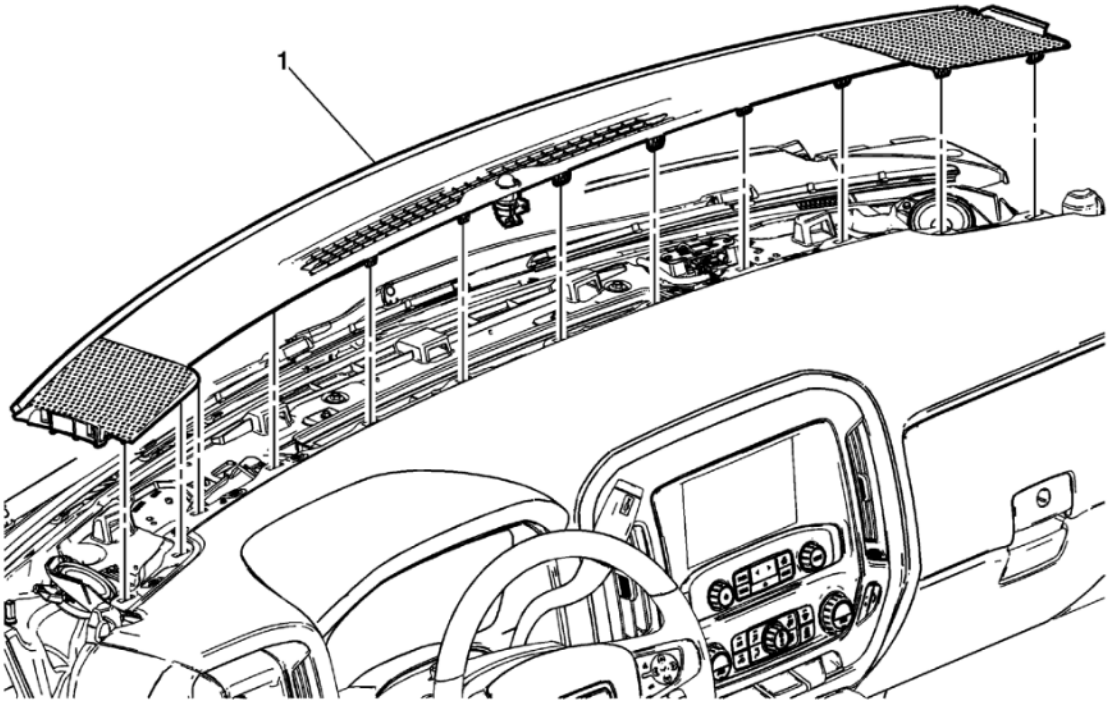


Fig. 41: Instrument Panel Extension
Courtesy of GENERAL MOTORS COMPANY

18. Install the instrument panel extension (1). Refer to **Instrument Panel Extension Replacement**.

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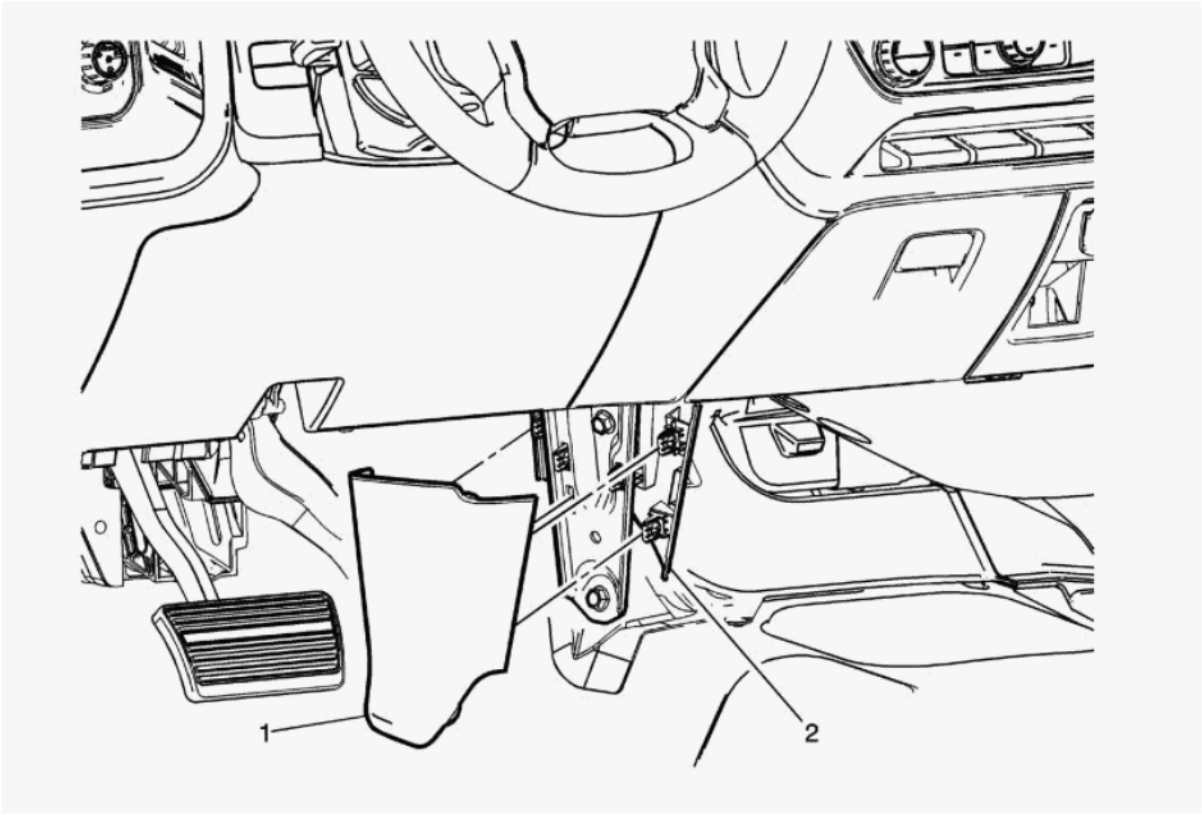
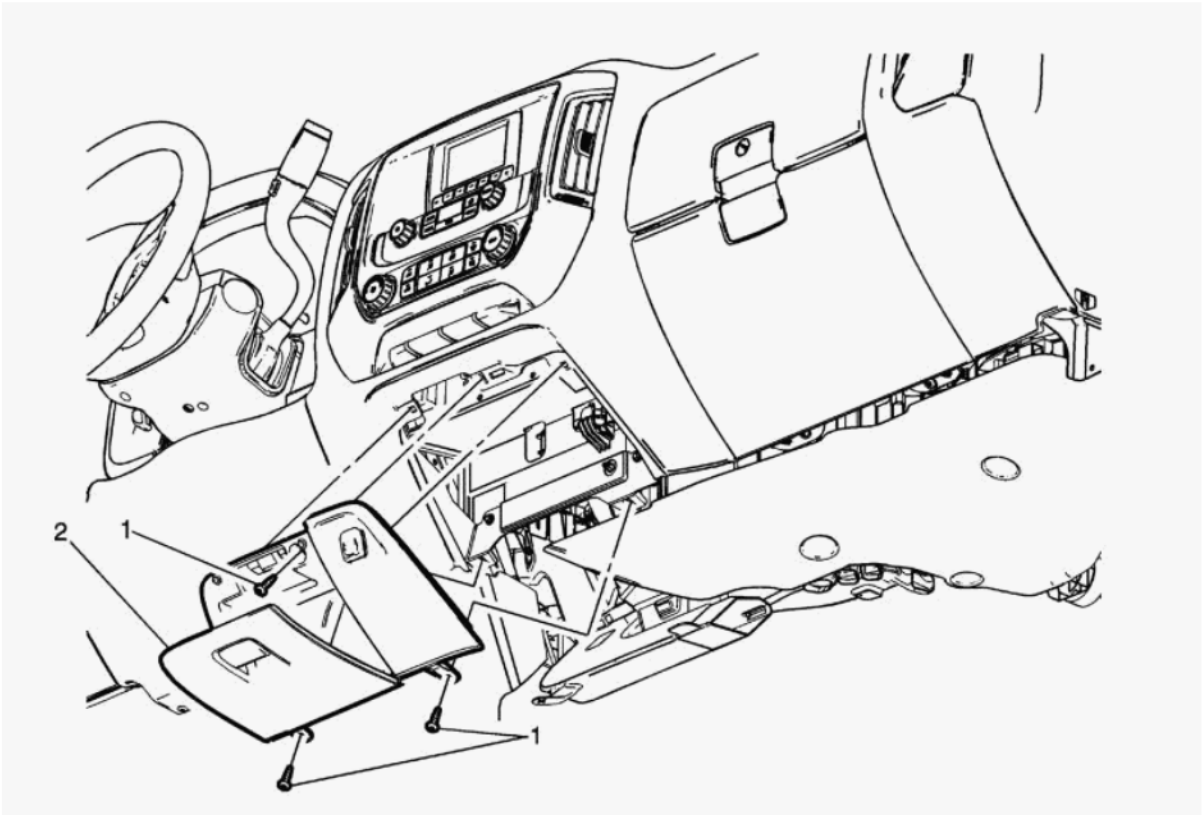


Fig. 42: Instrument Panel Lower Center Trim Panel
Courtesy of GENERAL MOTORS COMPANY

19. Install the instrument panel lower center trim panel (1) and (2), if equipped. Refer to **Instrument Panel Lower Center Trim Panel Replacement**.



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Fig. 43: Instrument Panel Center Compartment
Courtesy of GENERAL MOTORS COMPANY

20. Install the instrument panel center compartment (2), if equipped. Refer to **Instrument Panel Center Compartment Replacement**.

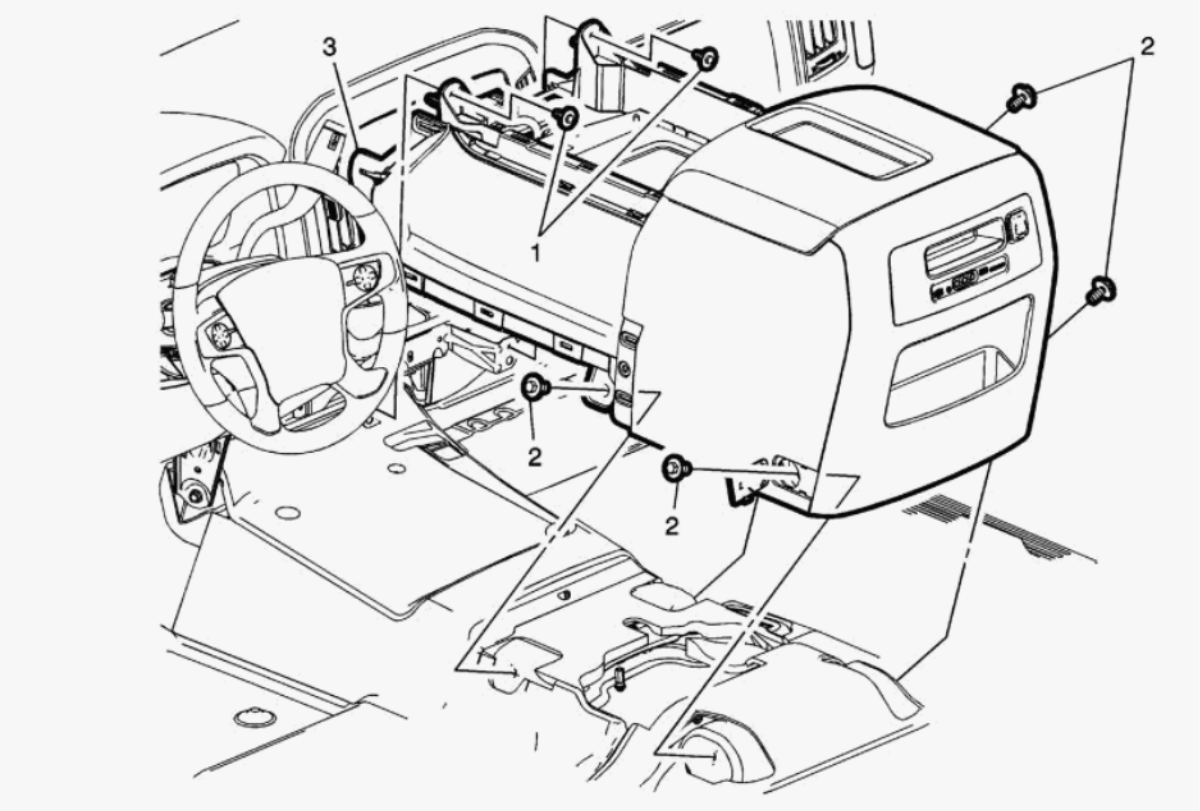


Fig. 44: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

21. Install the front floor console (3), if equipped. Refer to **Front Floor Console Assembly Replacement (without HP5)Front Floor Console Assembly Replacement (with HP5)**.
22. Enable the SIR system. Refer to **SIR Disabling and Enabling** .

INSTRUMENT PANEL ASSEMBLY REPLACEMENT

Removal Procedure

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

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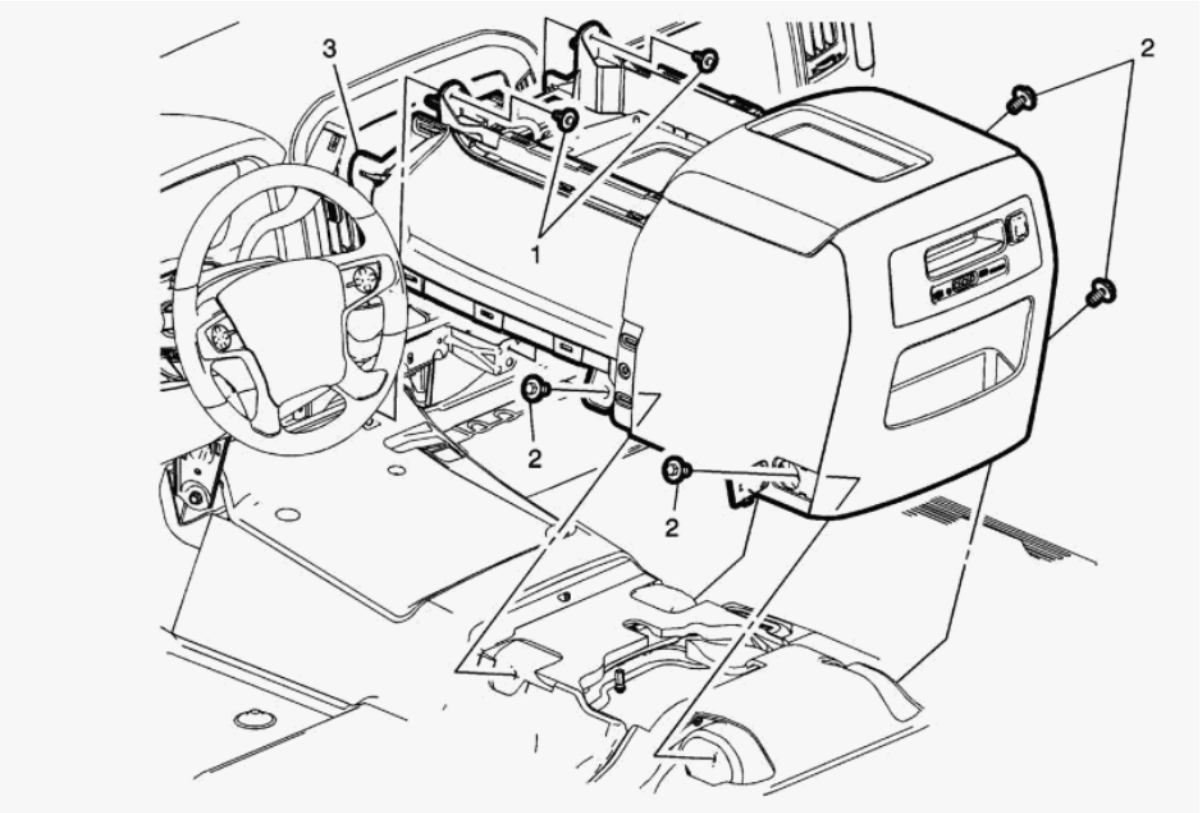


Fig. 45: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

NOTE: **Care should be taken to ensure that the floor console fasteners are kept separate from the instrument panel fasteners.**

2. Remove the front floor console (3), if equipped. Refer to **Front Floor Console Assembly Replacement (without HP5)Front Floor Console Assembly Replacement (with HP5)**.

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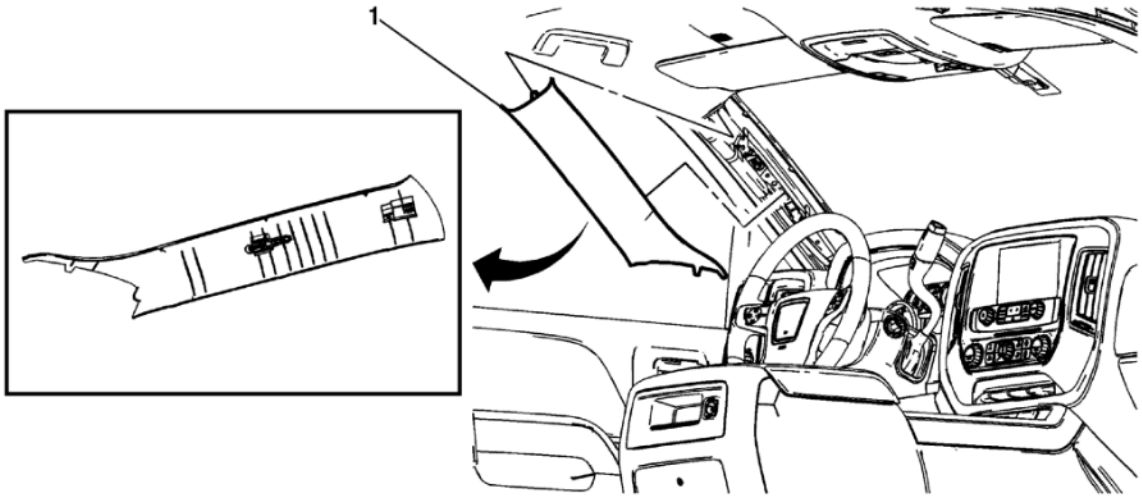
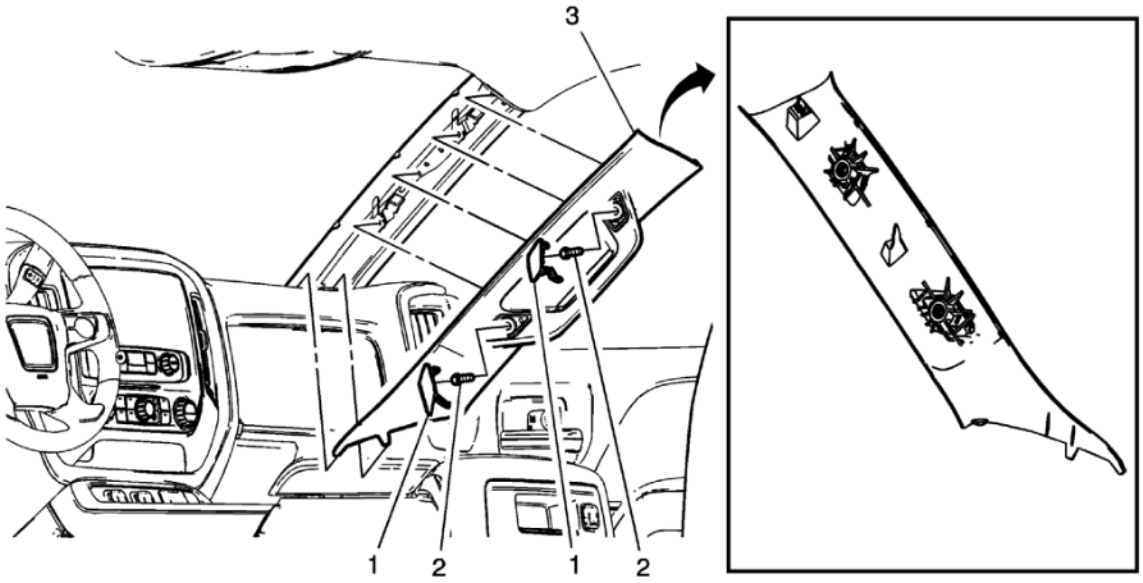


Fig. 46: Windshield Garnish Molding Assembly Left Side
Courtesy of GENERAL MOTORS COMPANY

3. Remove the left windshield garnish molding (1). Refer to **Windshield Garnish Molding Replacement - Left Side** .



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Fig. 47: Windshield Garnish Molding Assembly Right Side
Courtesy of GENERAL MOTORS COMPANY

4. Remove the right windshield garnish molding (3). Refer to **Windshield Garnish Molding Replacement - Right Side** .

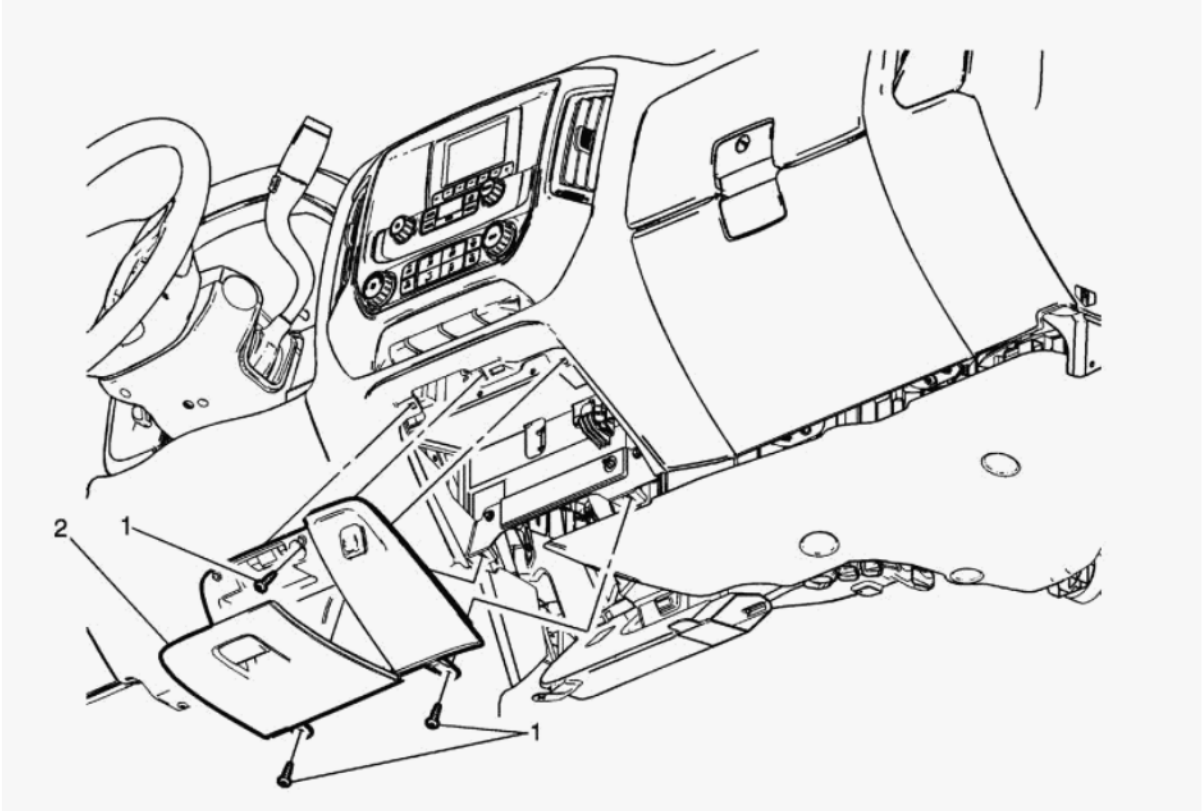


Fig. 48: Instrument Panel Center Compartment
Courtesy of GENERAL MOTORS COMPANY

5. Remove the instrument panel center compartment (2), if equipped. Refer to **Instrument Panel Center Compartment Replacement**.

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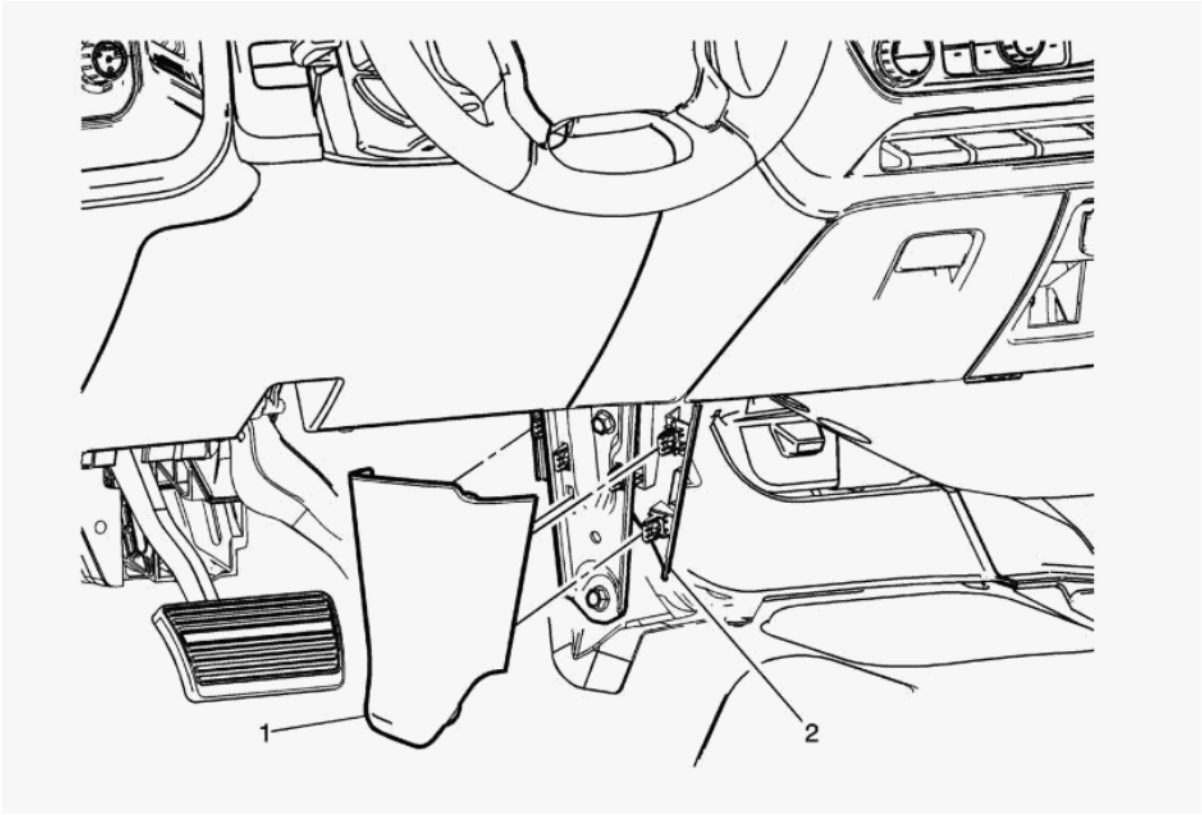
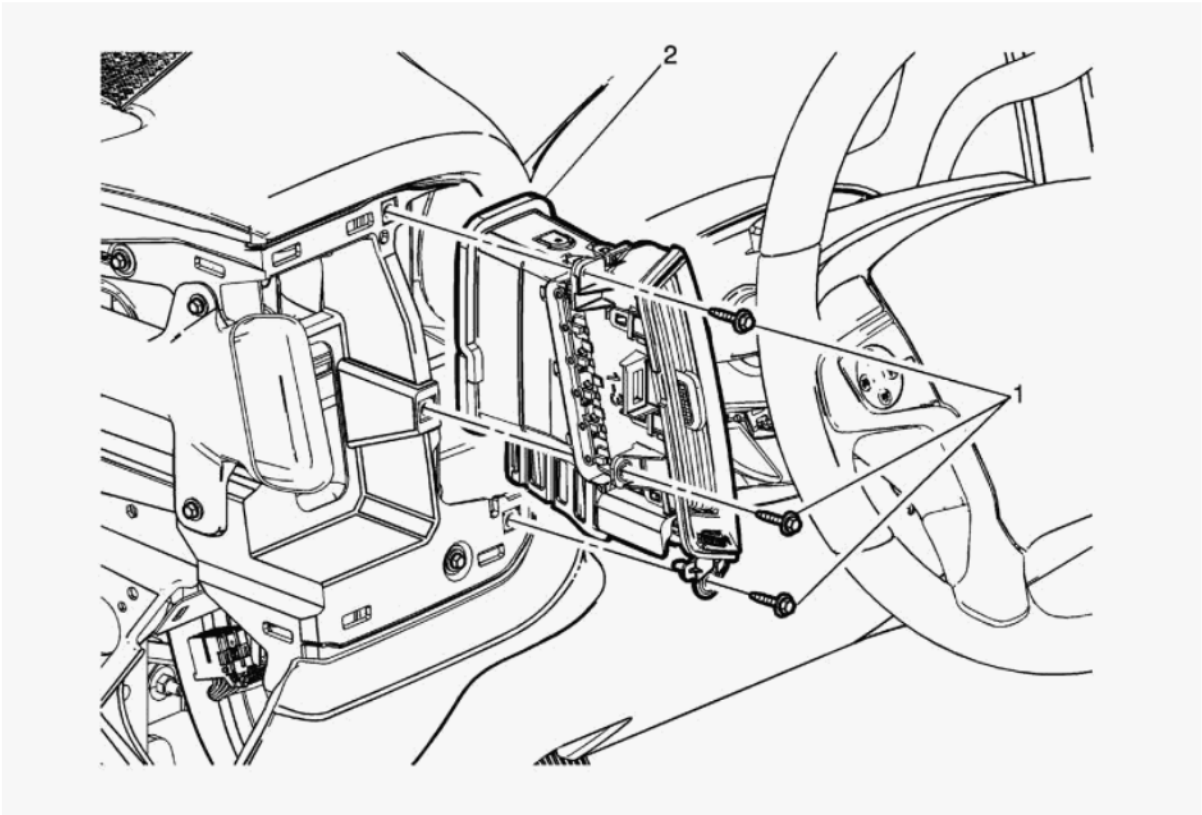


Fig. 49: Instrument Panel Lower Center Trim Panel
Courtesy of GENERAL MOTORS COMPANY

6. Remove the instrument panel lower center trim panel (1) and (2), if equipped. Refer to **Instrument Panel Lower Center Trim Panel Replacement**.



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Fig. 50: Left Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

7. Remove the left instrument panel outer air outlet (2). Refer to **Instrument Panel Outer Air Outlet Replacement - Left Side** .

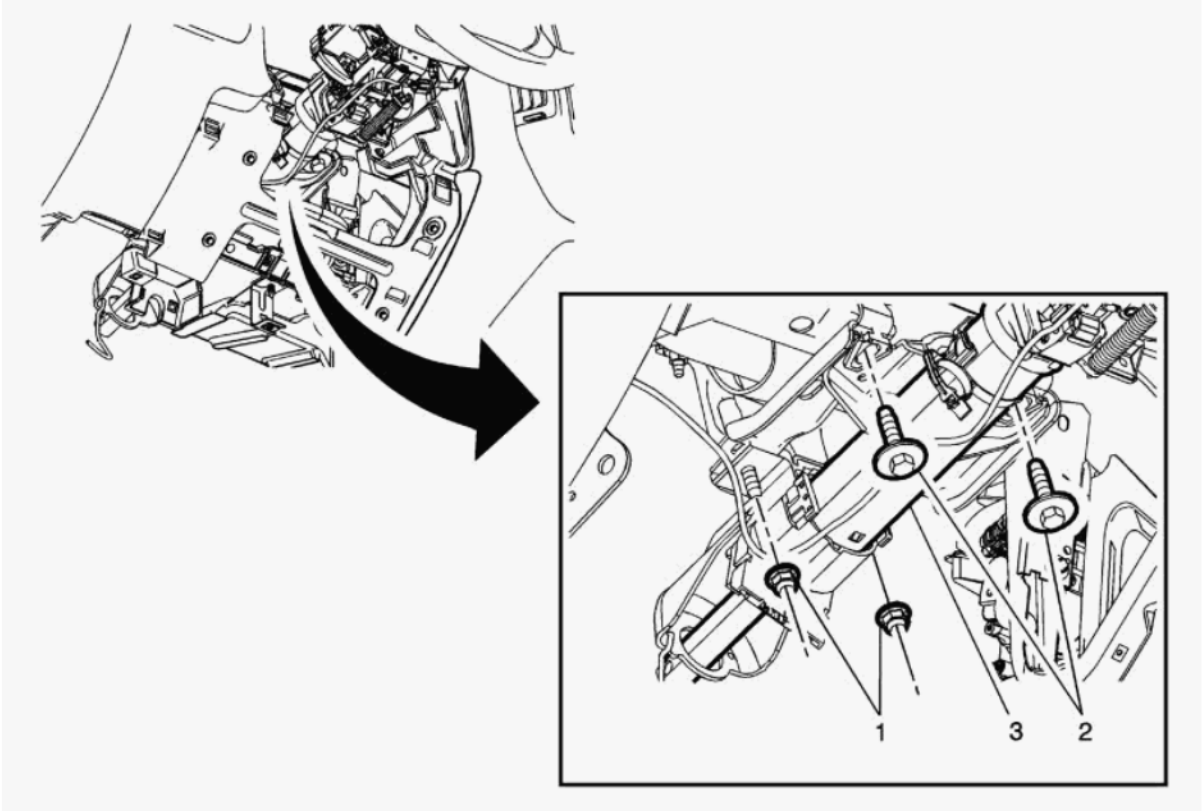


Fig. 51: Steering Column
Courtesy of GENERAL MOTORS COMPANY

8. Remove the steering column (3). Refer to **Steering Column Replacement** .

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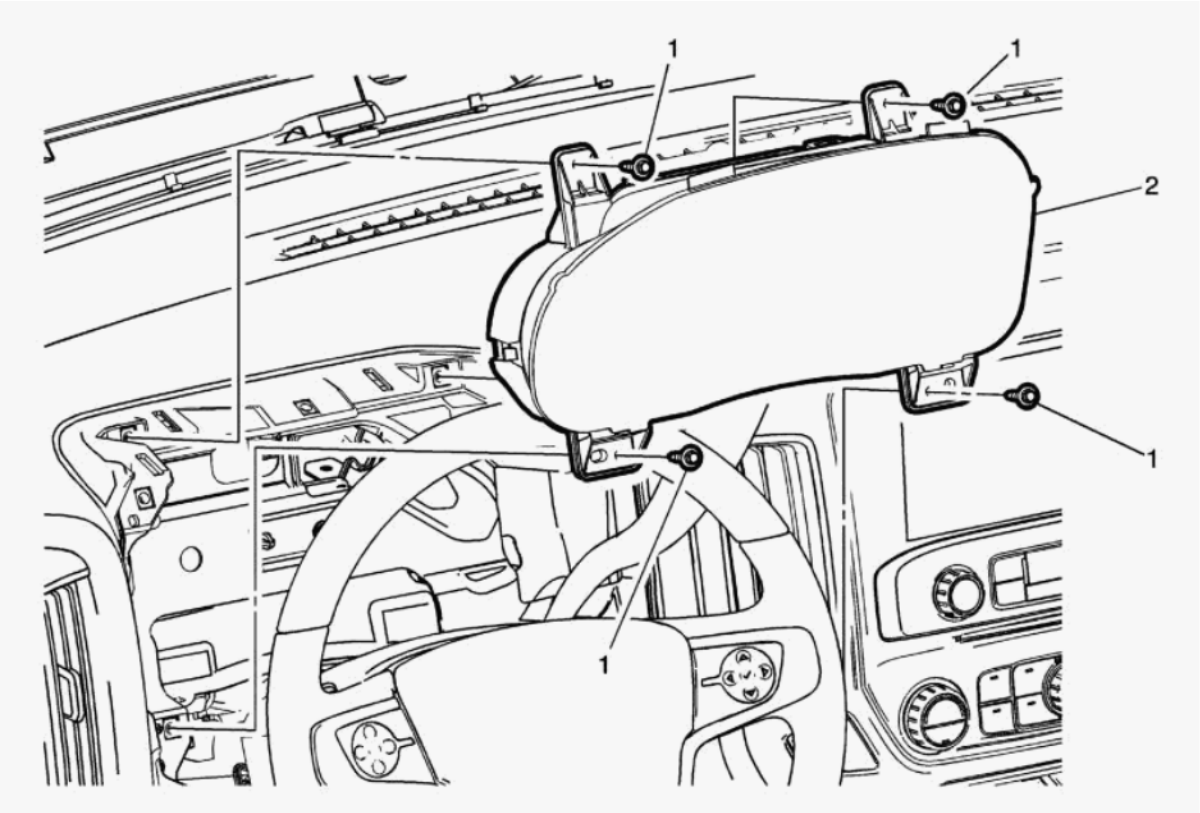


Fig. 52: Instrument Cluster
Courtesy of GENERAL MOTORS COMPANY

9. Remove the instrument cluster (2). Refer to **Instrument Cluster Replacement** .

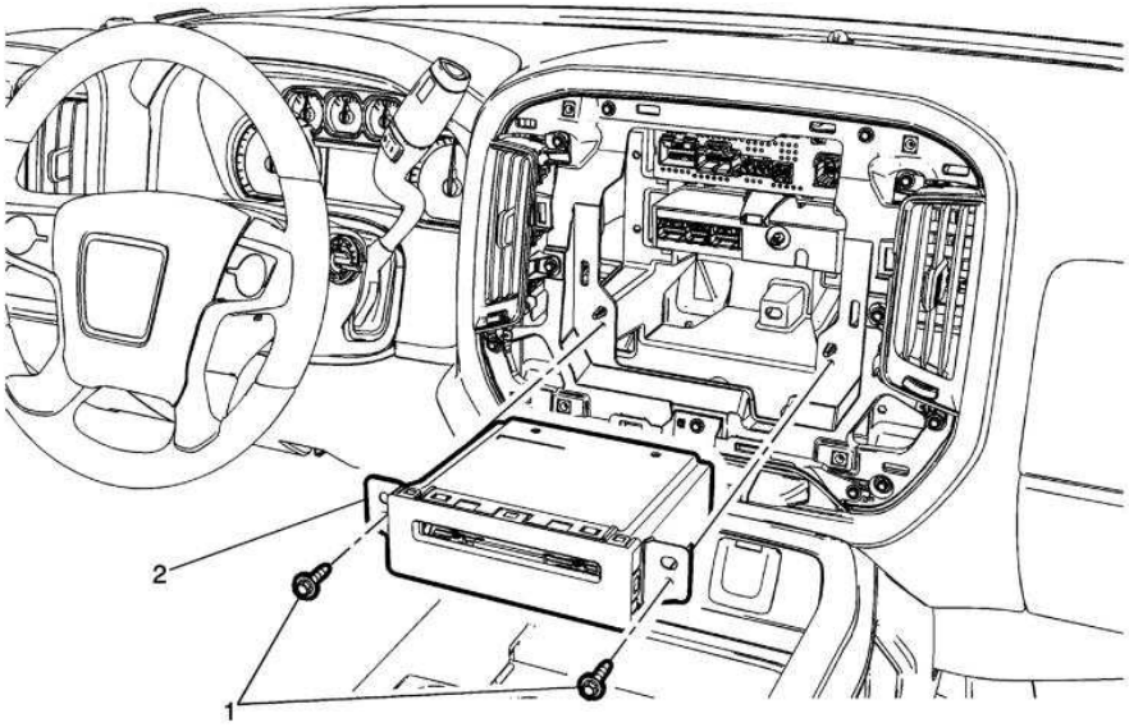


Fig. 53: Audio Disc Player

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Courtesy of GENERAL MOTORS COMPANY

10. Remove the audio disc player (2). Refer to **Disc Player Replacement (With IO3, IO5, IO6)** **Disc Player Replacement (With IOB)** .

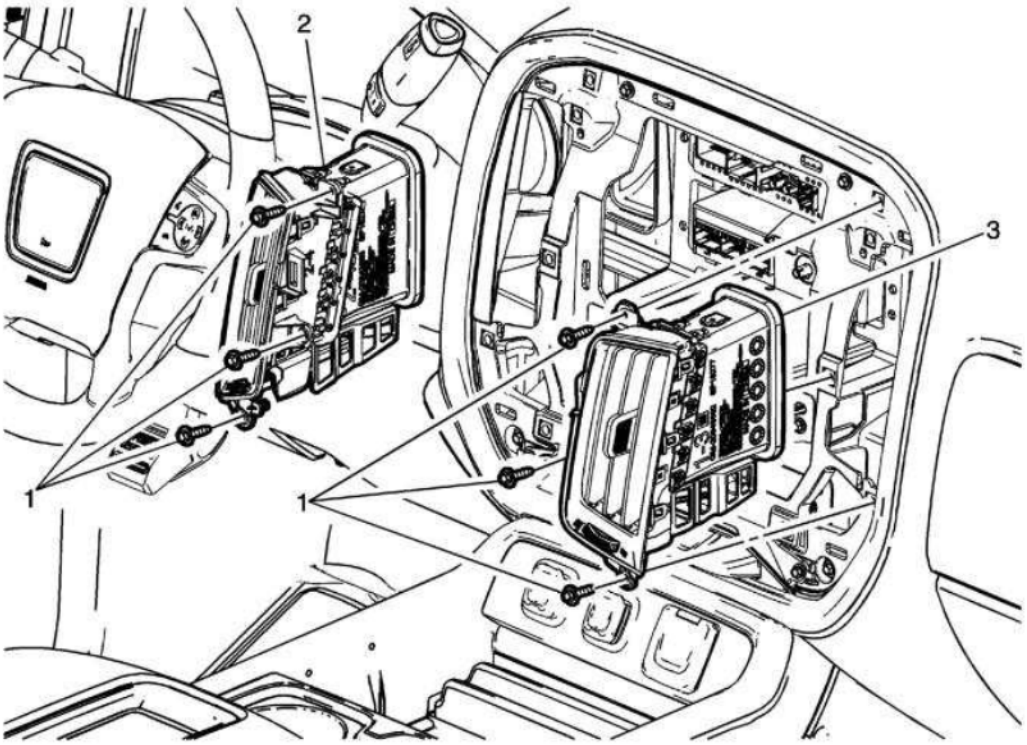


Fig. 54: Instrument Panel Center Air Outlet
Courtesy of GENERAL MOTORS COMPANY

11. Remove the instrument panel center air outlet (2) and (3). Refer to **Instrument Panel Center Air Outlet Replacement** .

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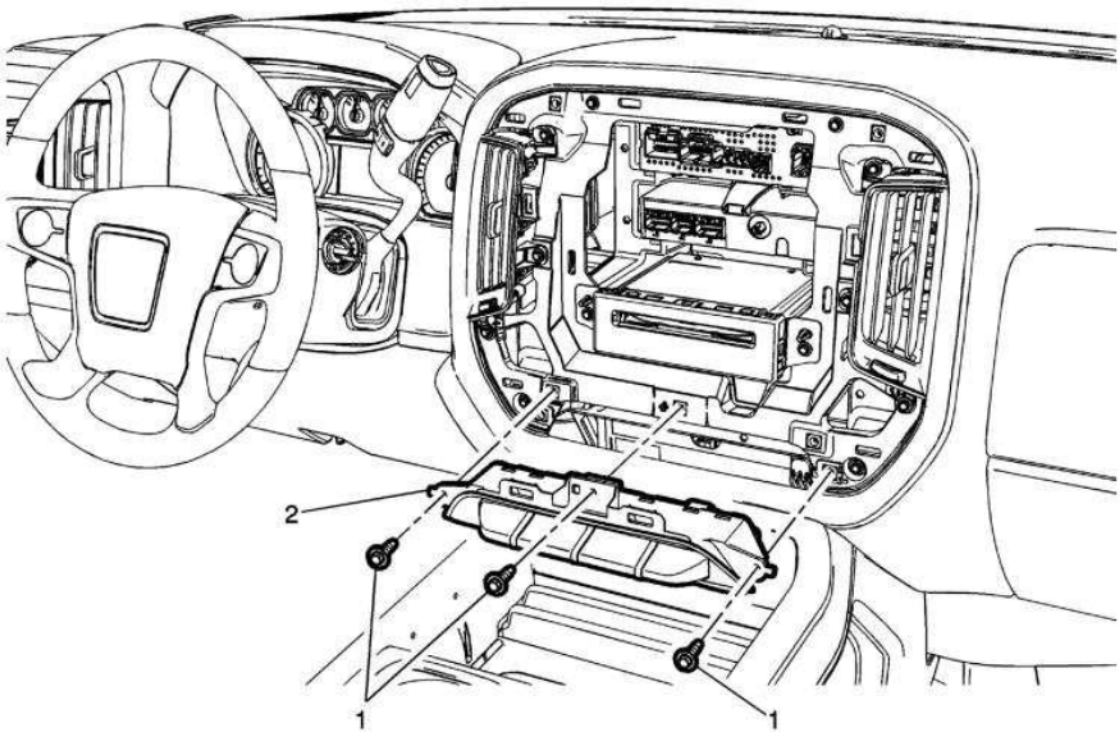
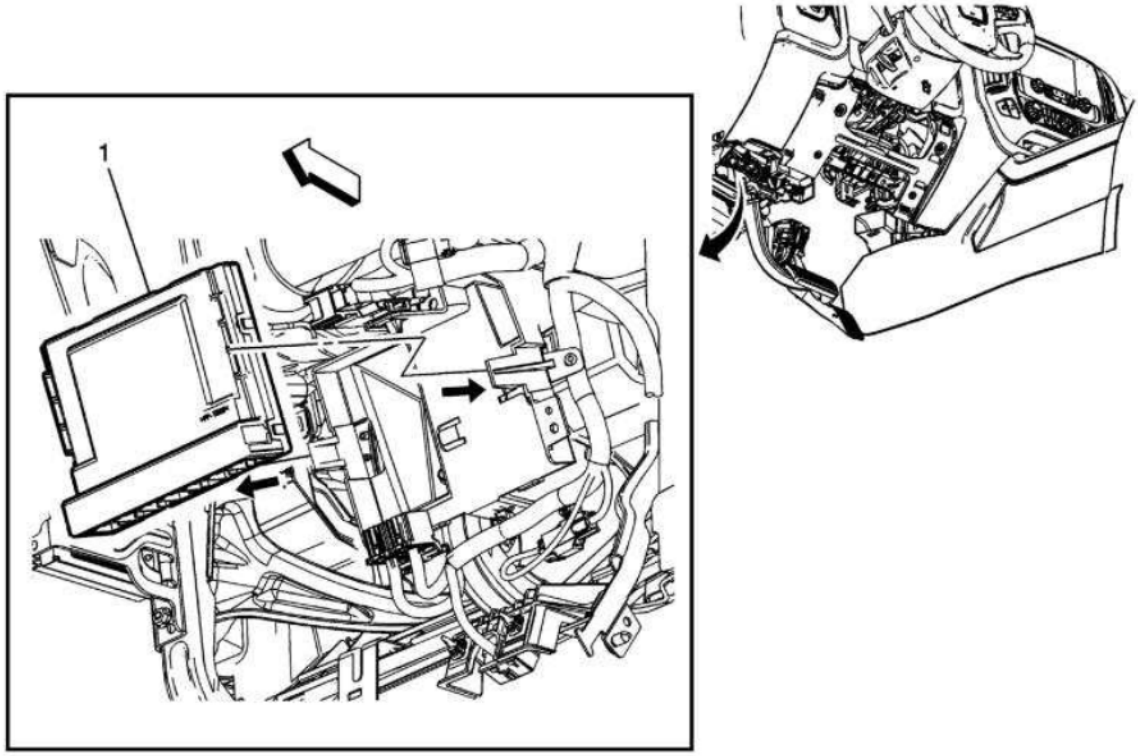


Fig. 55: Vehicle Stability Control System Switch
Courtesy of GENERAL MOTORS COMPANY

12. Remove the vehicle stability control system switch (2). Refer to **Vehicle Stability Control System Switch Replacement** .



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Fig. 56: Body Control Module
Courtesy of GENERAL MOTORS COMPANY

13. Remove the body control module (1). Refer to **Body Control Module Replacement** .

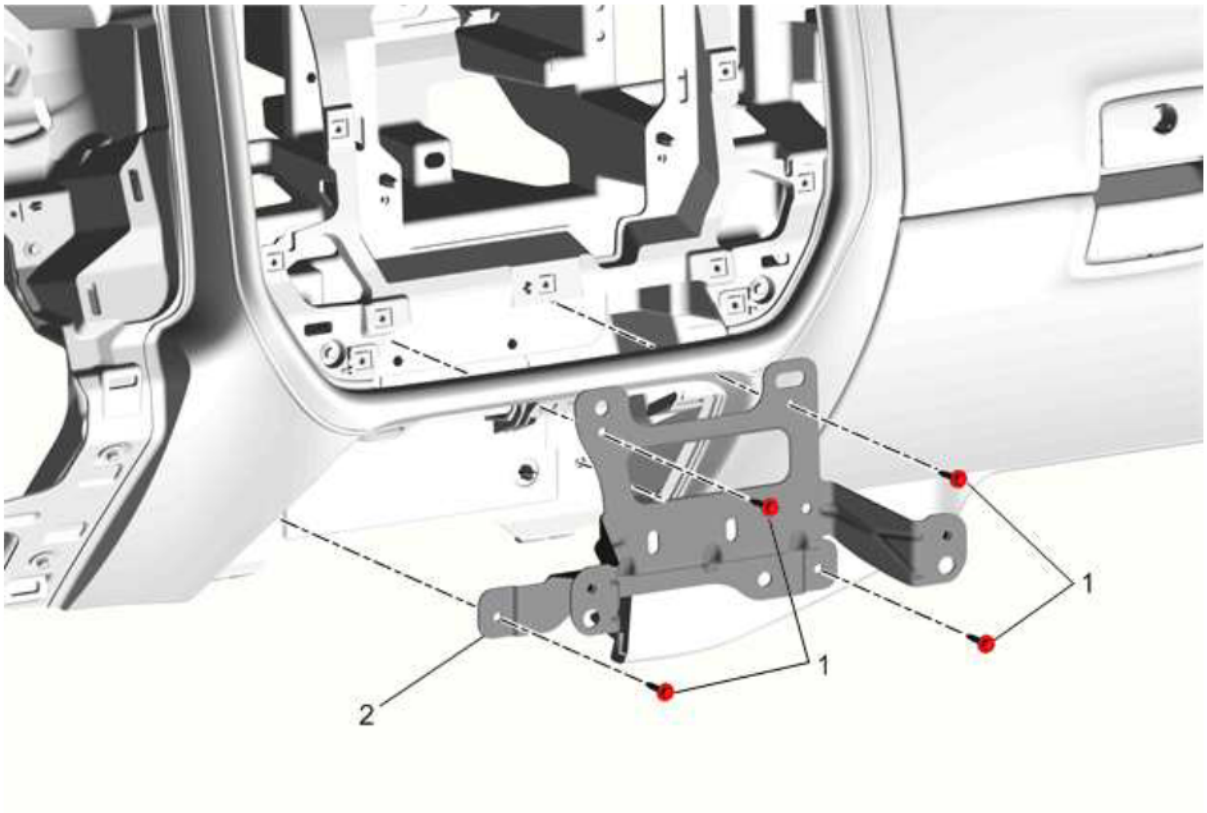


Fig. 57: Front Floor Console Bracket
Courtesy of GENERAL MOTORS COMPANY

14. Remove the front floor console bolt (1).
15. Remove the front floor console bracket (2).

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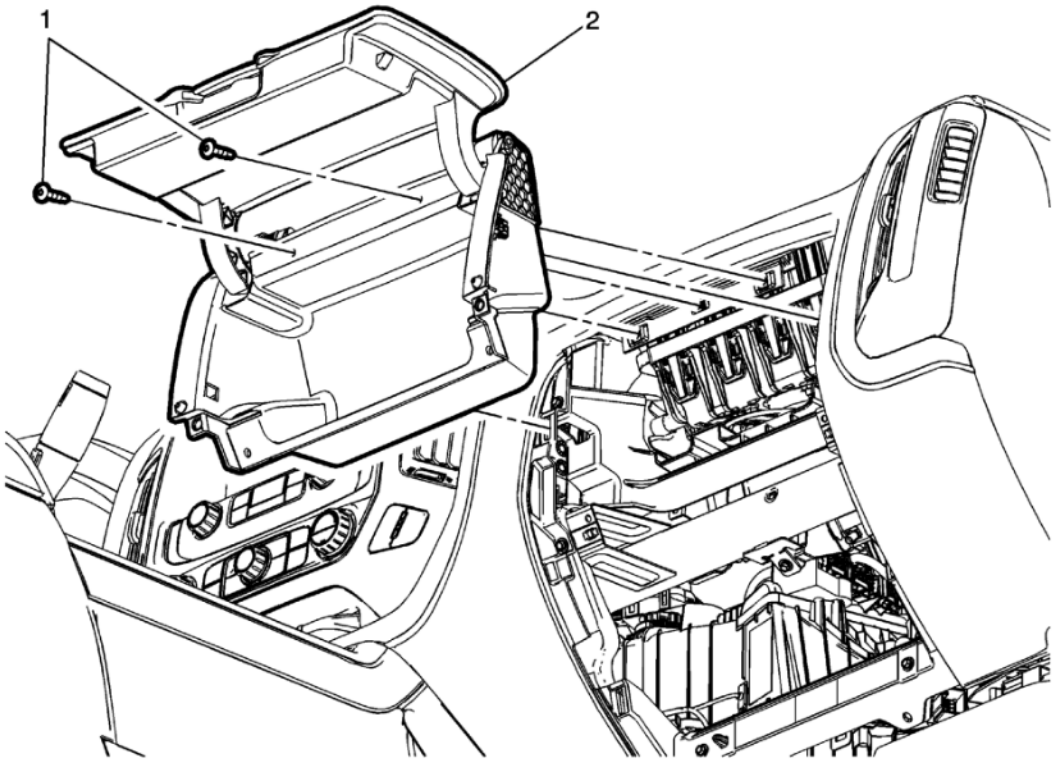
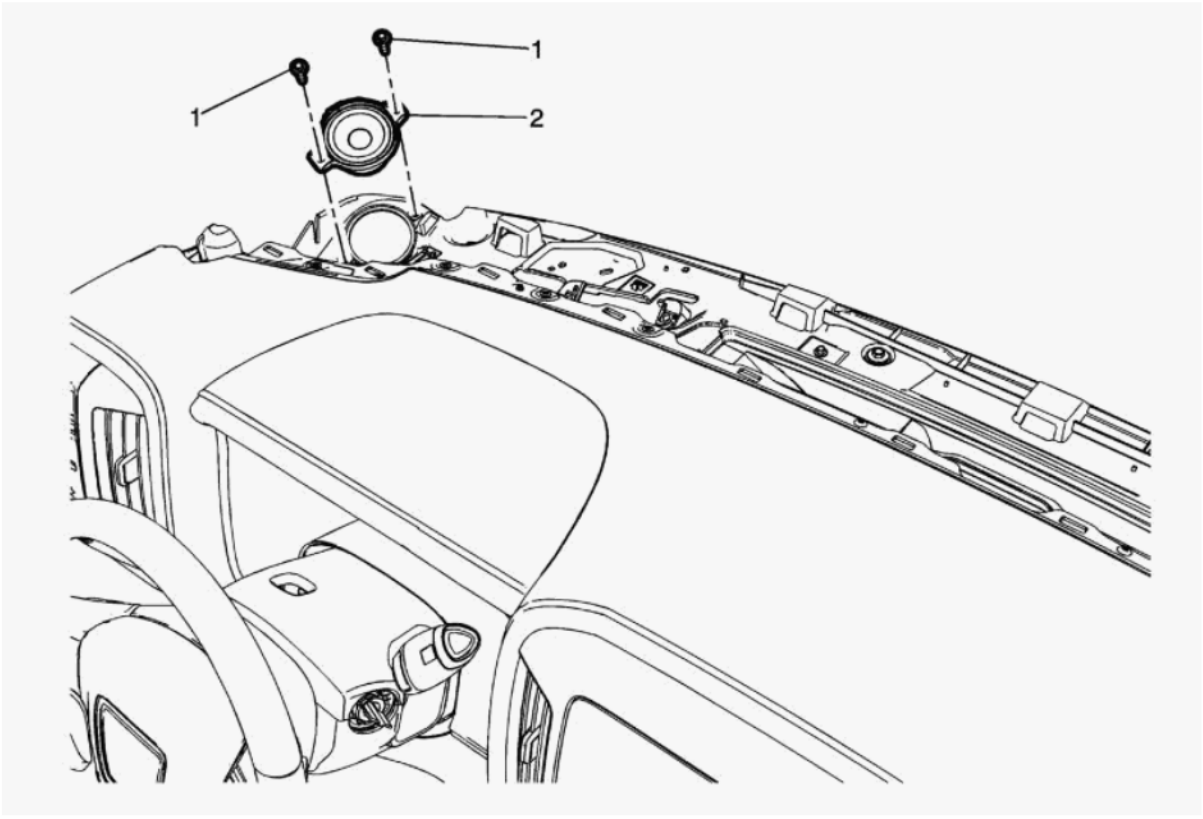


Fig. 58: Instrument Panel Upper Compartment
Courtesy of GENERAL MOTORS COMPANY

16. Remove the instrument panel upper compartment (2). Refer to **Instrument Panel Upper Compartment Replacement**.



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Fig. 59: Radio Speaker
Courtesy of GENERAL MOTORS COMPANY

17. Remove the left and right radio speaker (2). Refer to **Radio Speaker Replacement** .

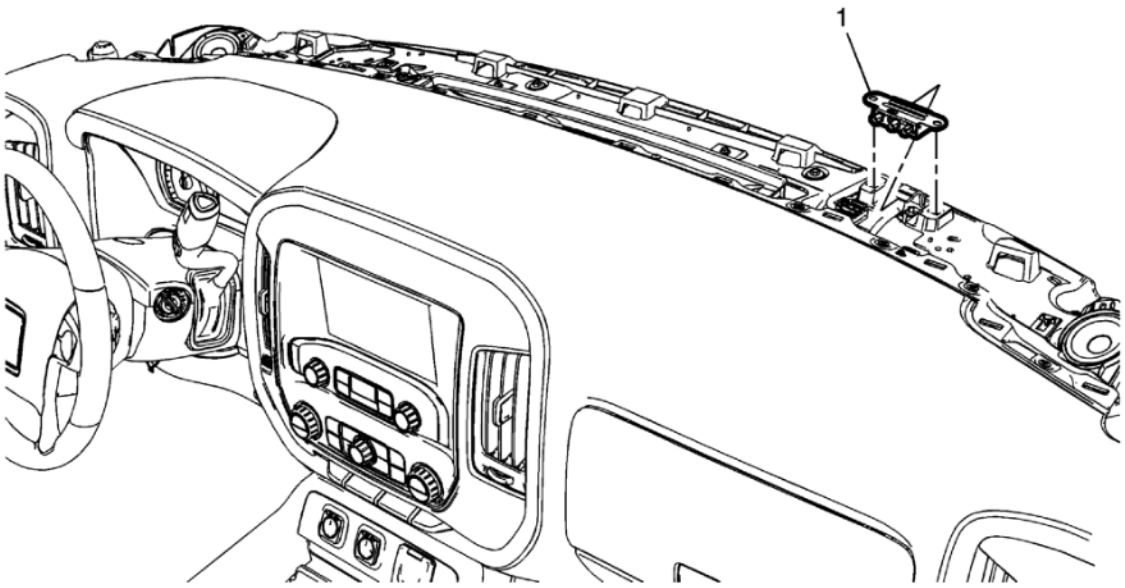


Fig. 60: Navigation Signal Splitter
Courtesy of GENERAL MOTORS COMPANY

18. Remove the navigation signal splitter (1). Refer to **Navigation Signal Splitter Replacement** .

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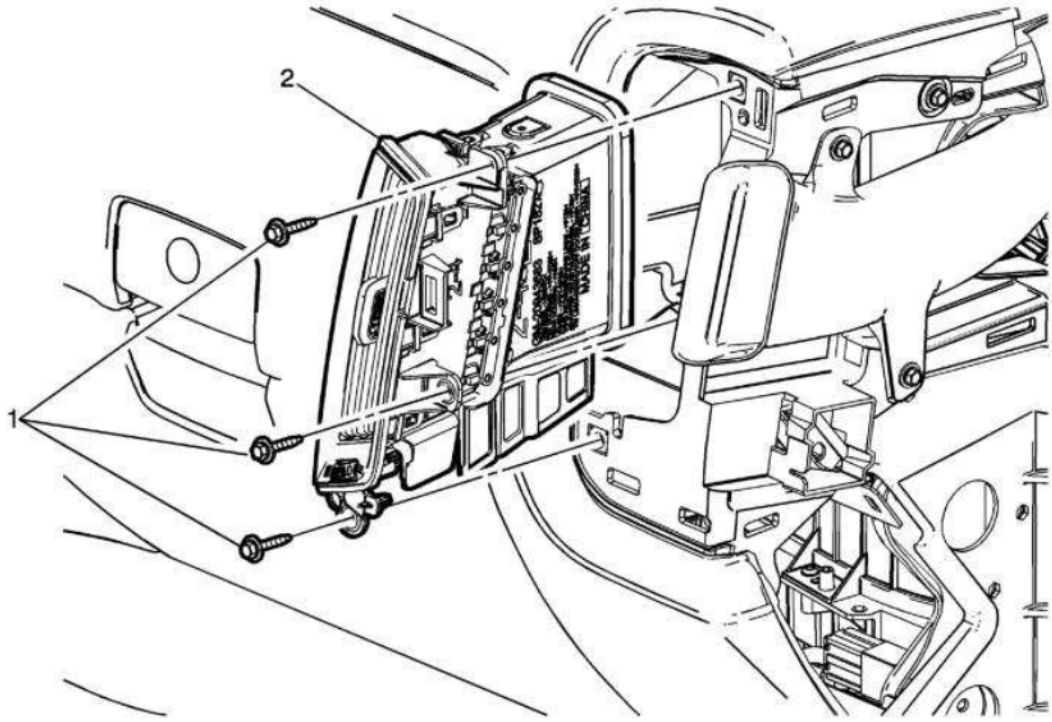
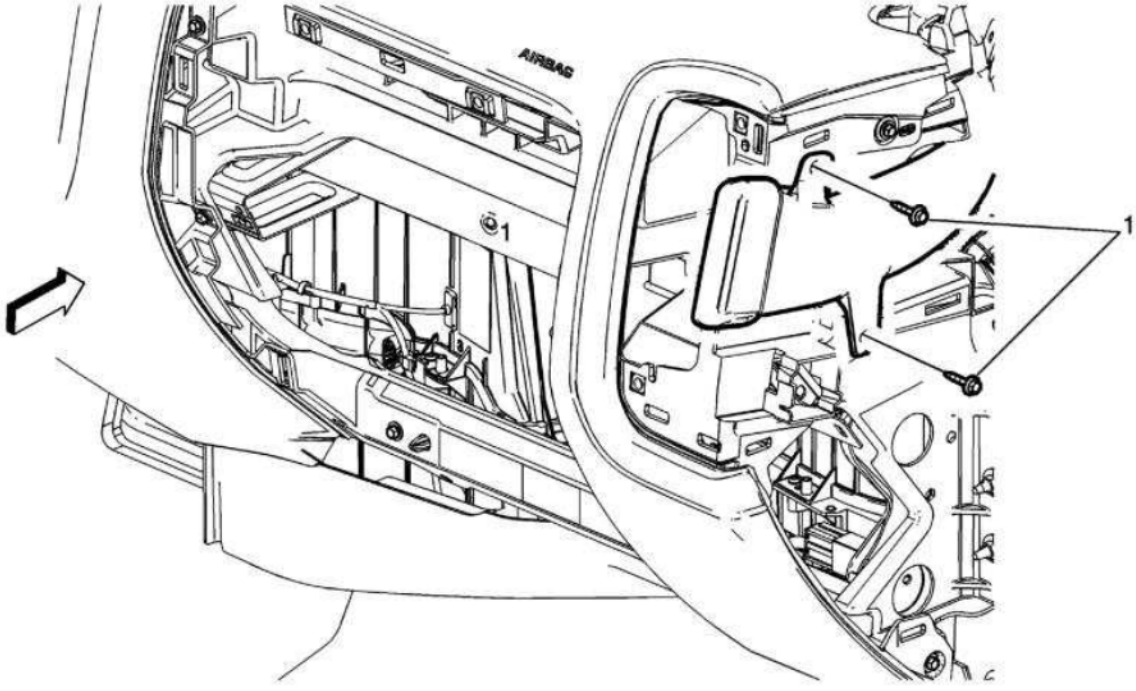


Fig. 61: Right Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

19. Remove the right instrument panel outer air outlet (2). Refer to **Instrument Panel Outer Air Outlet Replacement - Right Side** .



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Fig. 62: Side Window Defogger Outlet Duct Fasteners
Courtesy of GENERAL MOTORS COMPANY

20. Remove the side window defogger outlet duct fasteners (1).

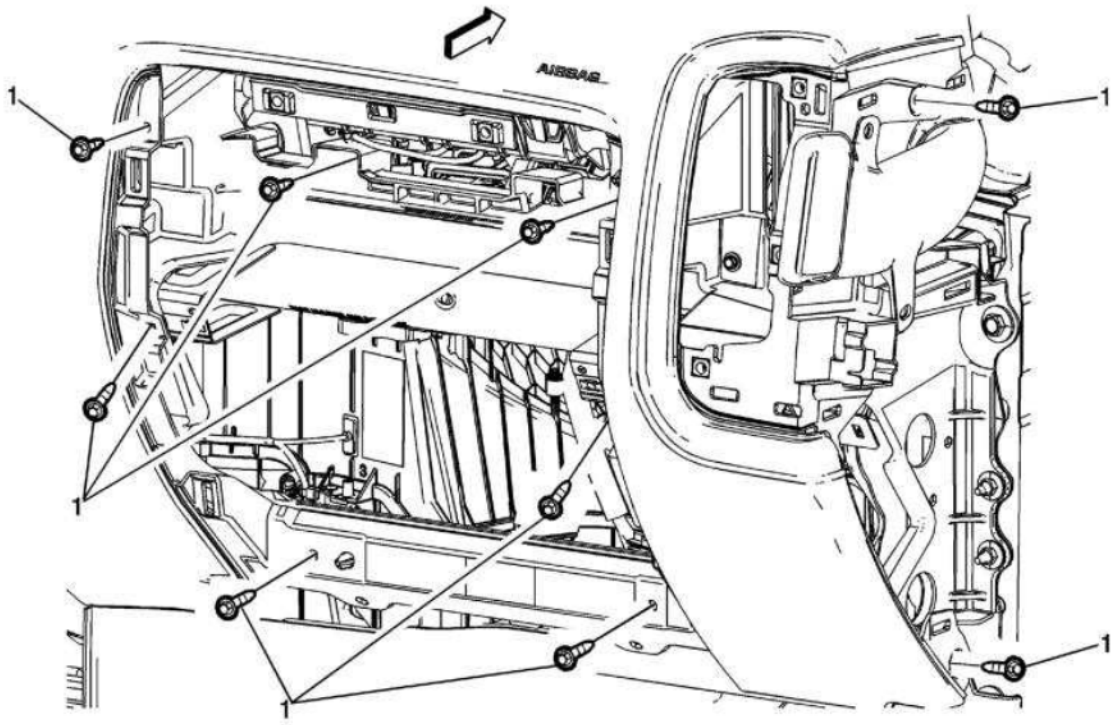


Fig. 63: Instrument Panel Assembly Fasteners
Courtesy of GENERAL MOTORS COMPANY

21. Remove the instrument panel assembly fasteners (1).

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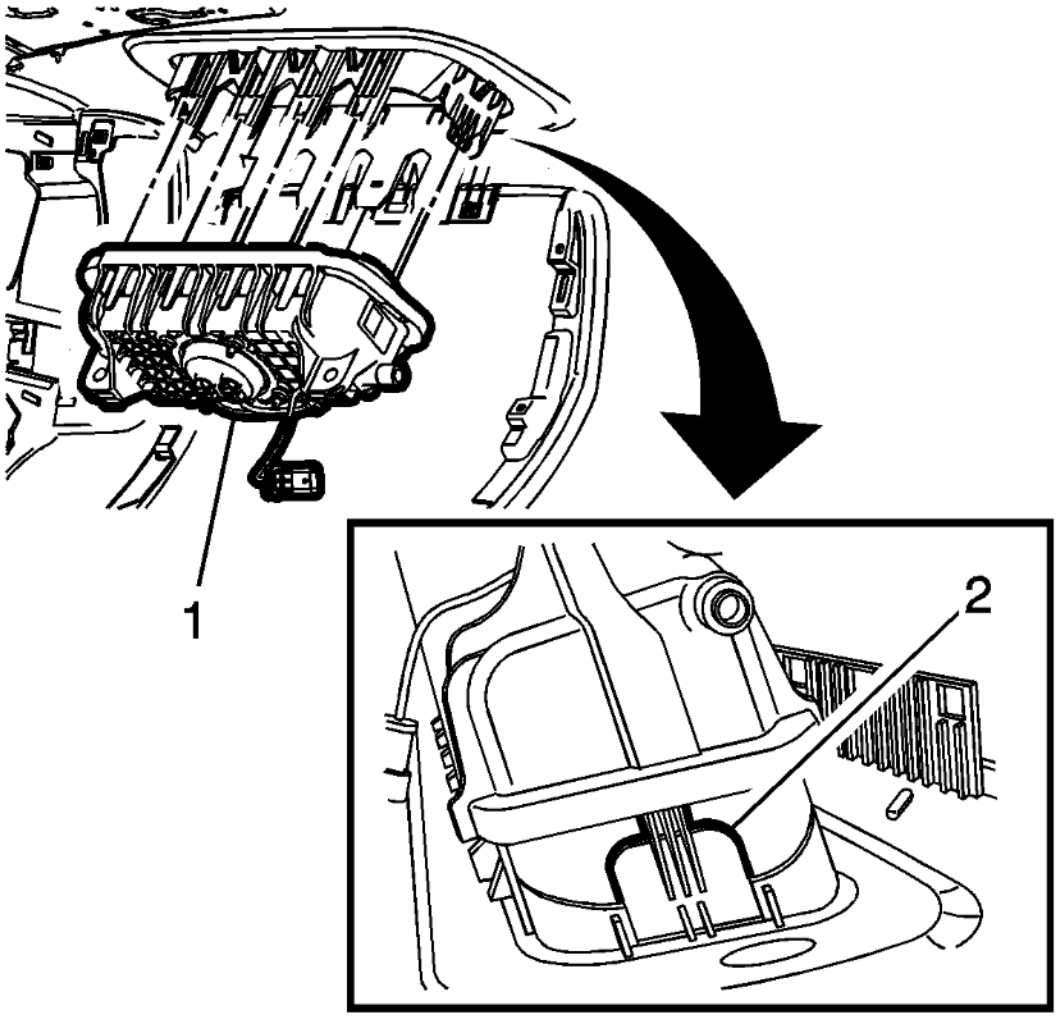


Fig. 64: Instrument Panel Airbag
Courtesy of GENERAL MOTORS COMPANY

22. Disconnect the instrument panel airbag inline pigtail connector. Refer to **Instrument Panel Airbag Replacement** .

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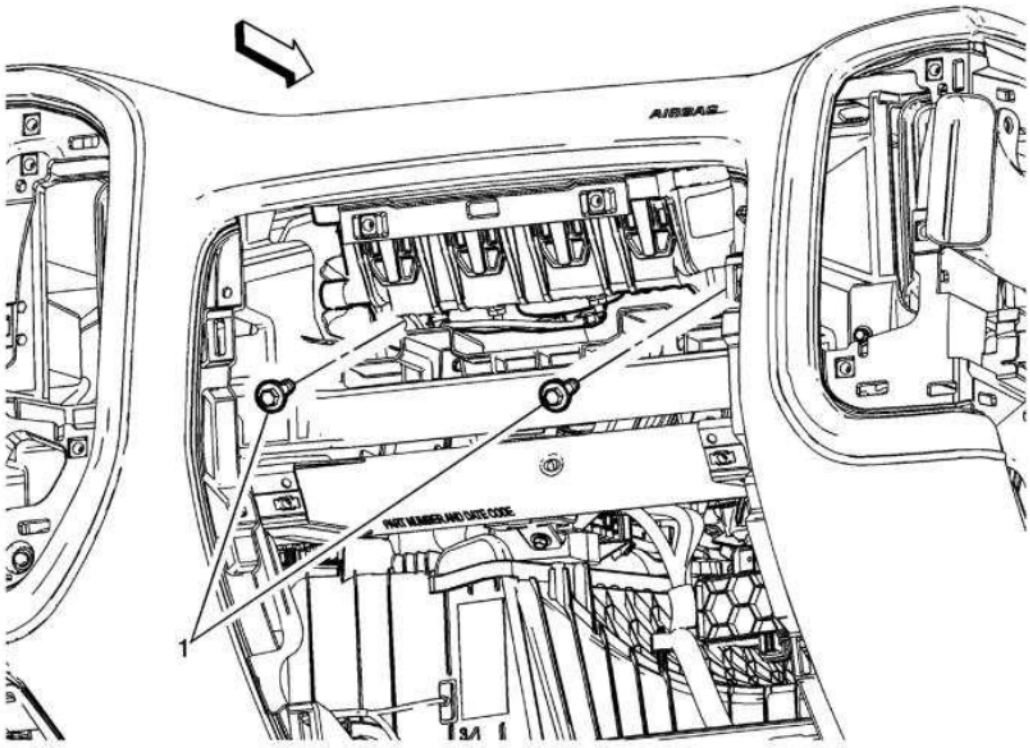


Fig. 65: Instrument Panel Inflatable Restraint Module Fasteners
Courtesy of GENERAL MOTORS COMPANY

23. Remove the instrument panel inflatable restraint module fasteners (1).

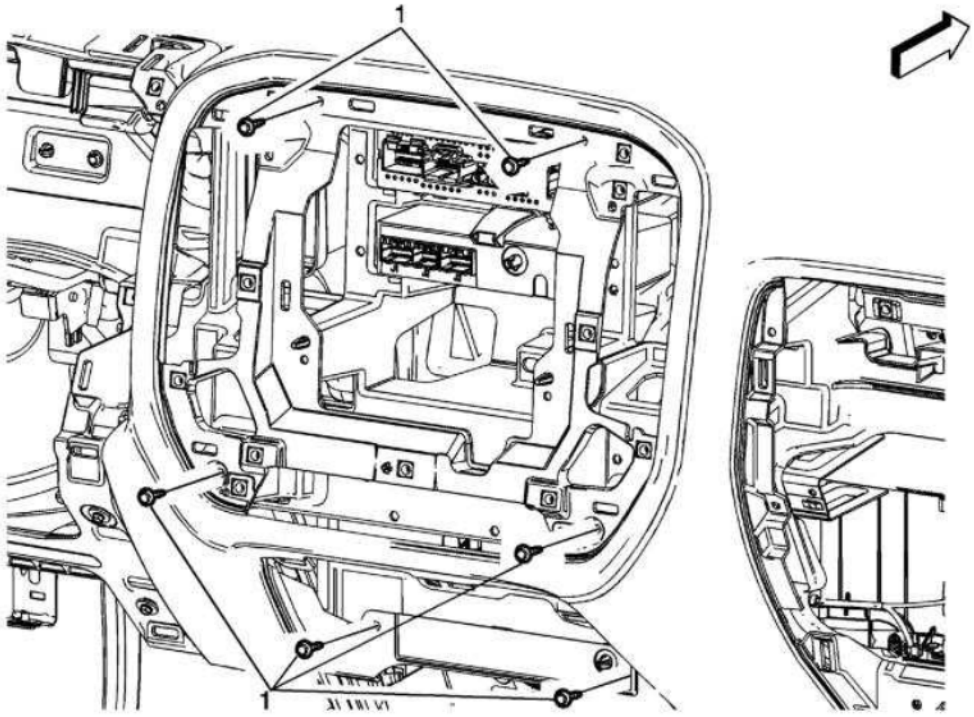


Fig. 66: Instrument Panel Assembly Fasteners

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Courtesy of GENERAL MOTORS COMPANY

24. Remove the instrument panel assembly fasteners (1).

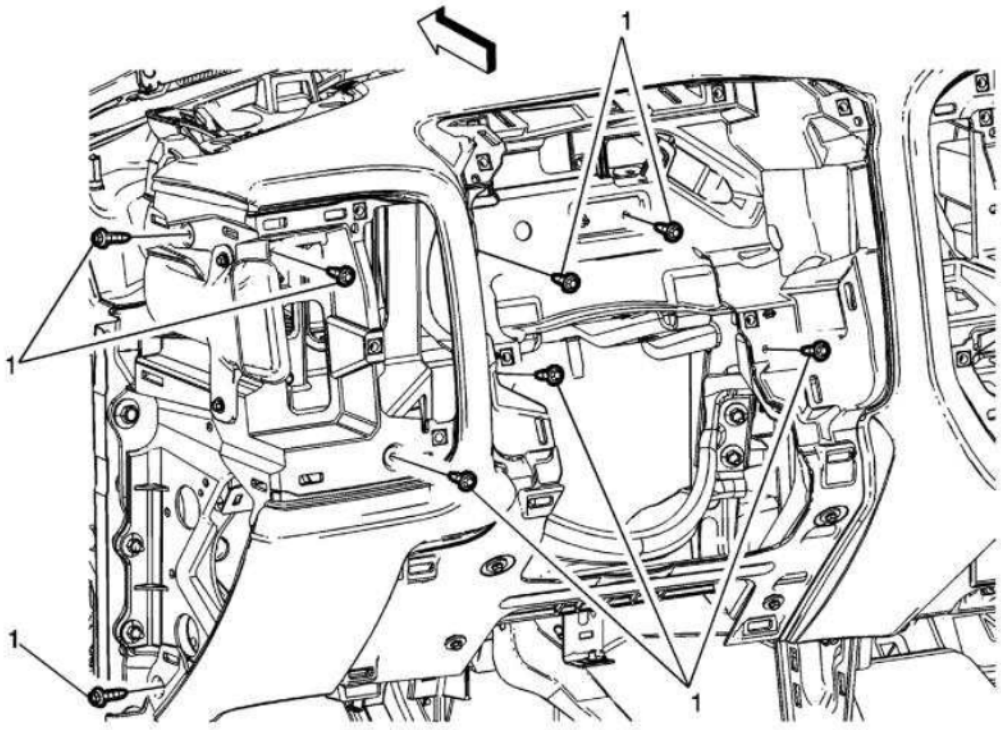


Fig. 67: Instrument Panel Assembly Fasteners
Courtesy of GENERAL MOTORS COMPANY

25. Remove the instrument panel assembly fasteners (1).

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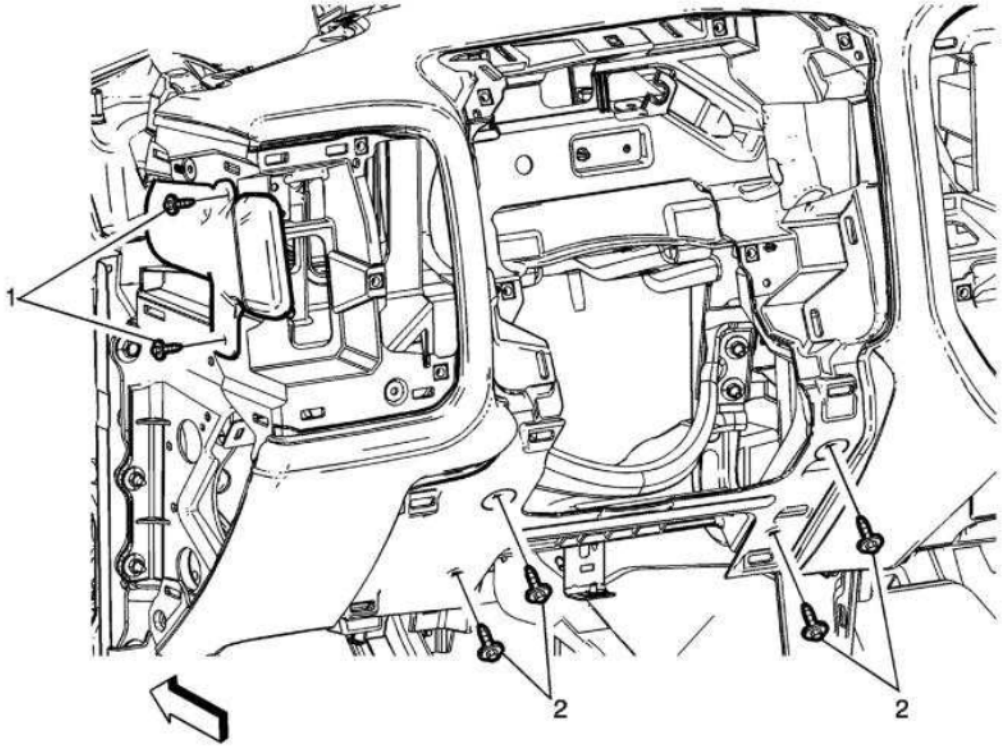
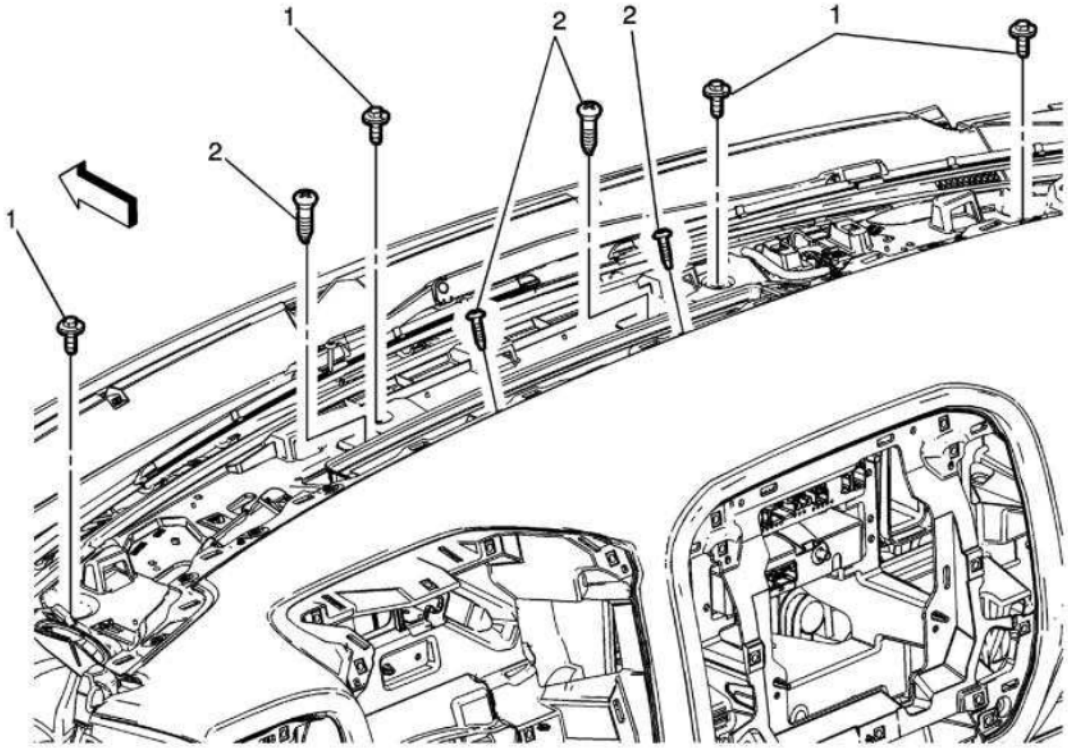


Fig. 68: Side Window Defogger Outlet Duct Fasteners
Courtesy of GENERAL MOTORS COMPANY

26. Remove the side window defogger outlet duct fasteners (1).
27. Remove the instrument panel lower fasteners (2).



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Fig. 69: Instrument Panel Upper Trim Panel Fasteners
Courtesy of GENERAL MOTORS COMPANY

28. Remove the instrument panel upper trim panel fasteners (1).
29. Remove the instrument panel upper fasteners (2).

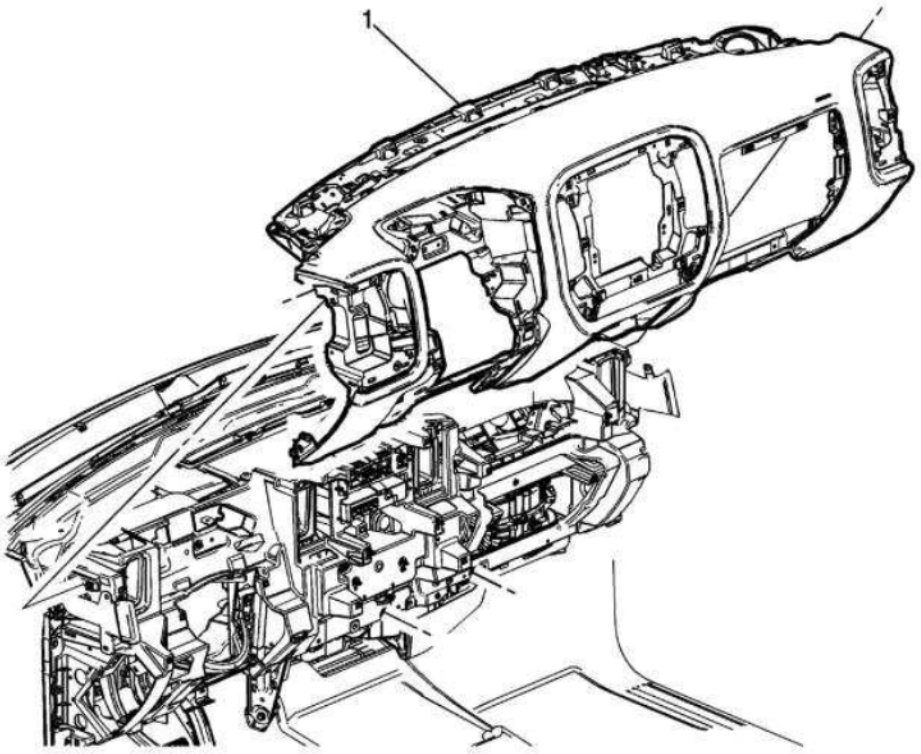


Fig. 70: Instrument Panel Assembly
Courtesy of GENERAL MOTORS COMPANY

30. Note location and routing of the instrument panel wiring harness prior to removal of the instrument panel assembly to ensure proper reinstallation.
31. Disconnect the wiring harness from the instrument panel assembly.
32. When removing the instrument panel assembly (1) apply tape to the edges of instrument panel to prevent marring.
33. Release the two locator pins on either side of the instrument panel assembly (1).
34. With the aid of an assistant, remove the instrument panel assembly (1) from the vehicle.
35. When replacing the instrument panel assembly (1), transfer all necessary components.

Installation Procedure

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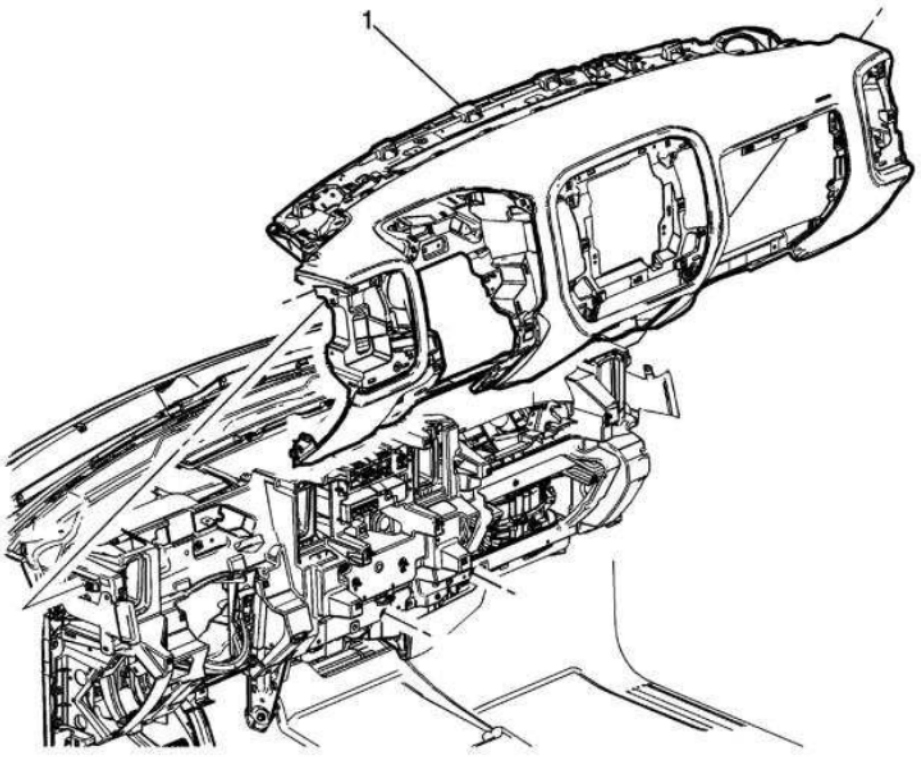


Fig. 71: Instrument Panel Assembly
Courtesy of GENERAL MOTORS COMPANY

1. When replacing the instrument panel assembly apply tape to the edges of the new panel.
2. With the aid of an assistant, position the instrument panel assembly (1) into the vehicle.
3. Reposition the instrument panel wiring harness into vehicle position as was noted in the removal process and connect the fasteners securing the instrument panel wiring harness to the instrument panel assembly.

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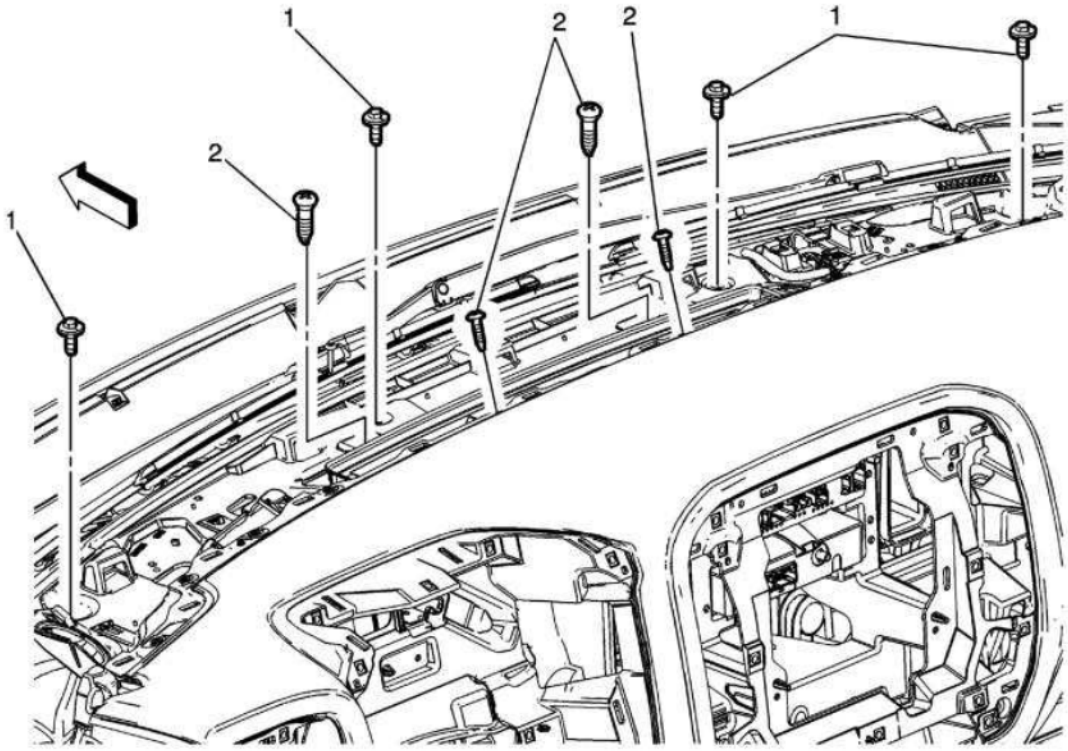


Fig. 72: Instrument Panel Upper Trim Panel Fasteners
Courtesy of GENERAL MOTORS COMPANY

CAUTION: **Refer to Fastener Caution .**

4. Install the instrument panel upper trim panel fasteners (1) and tighten to 9 N.m (80 lb in).
5. Install the instrument panel upper fasteners (2) and tighten to 2.5 N.m (22 lb in).

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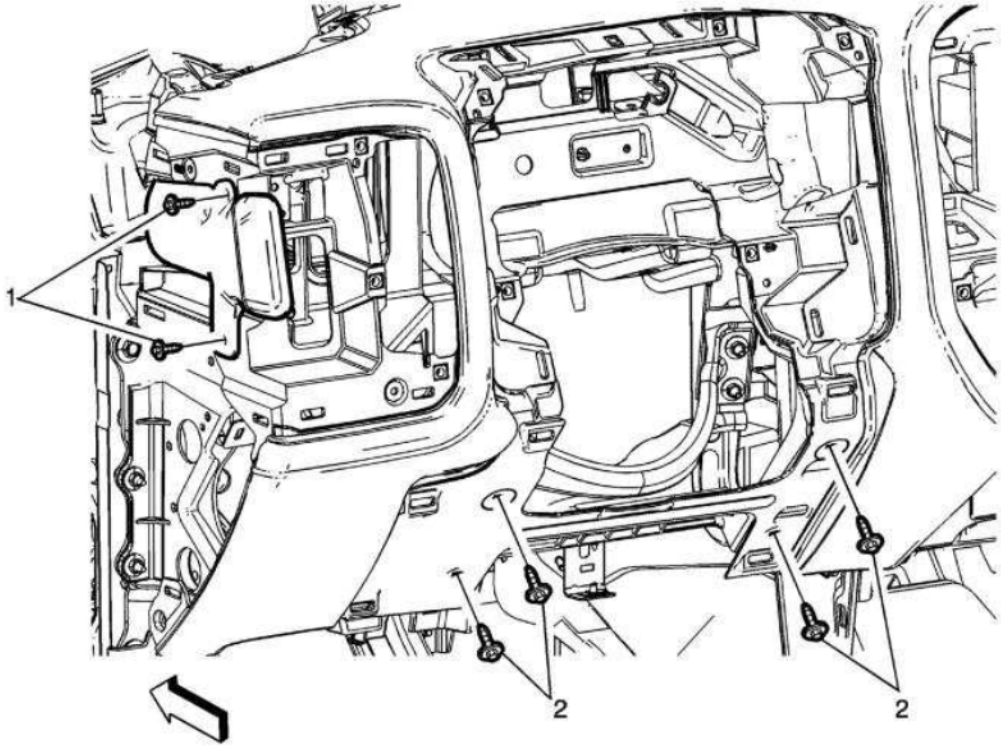
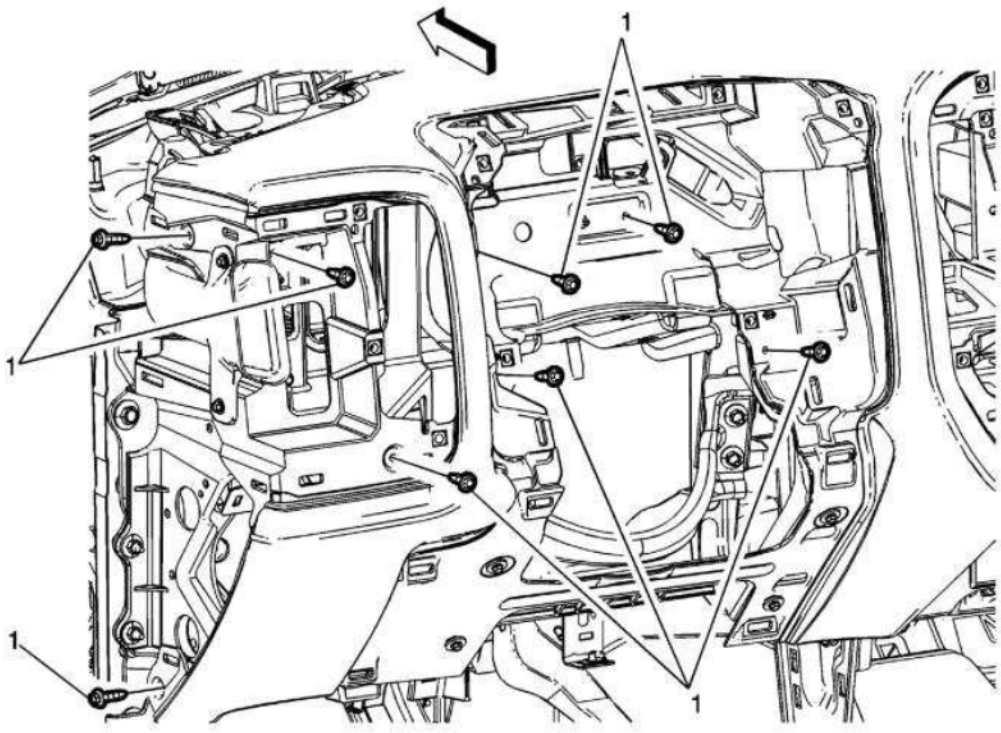


Fig. 73: Side Window Defogger Outlet Duct Fasteners
Courtesy of GENERAL MOTORS COMPANY

6. Install the side window defogger outlet duct fasteners (1) and tighten to 2.5 N.m (22 lb in).
7. Install the instrument panel lower fasteners (2) and tighten to 2.5 N.m (22 lb in).



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Fig. 74: Instrument Panel Assembly Fasteners
Courtesy of GENERAL MOTORS COMPANY

8. Install the instrument panel assembly fasteners (1) and tighten to 2.5 N.m (22 lb in).

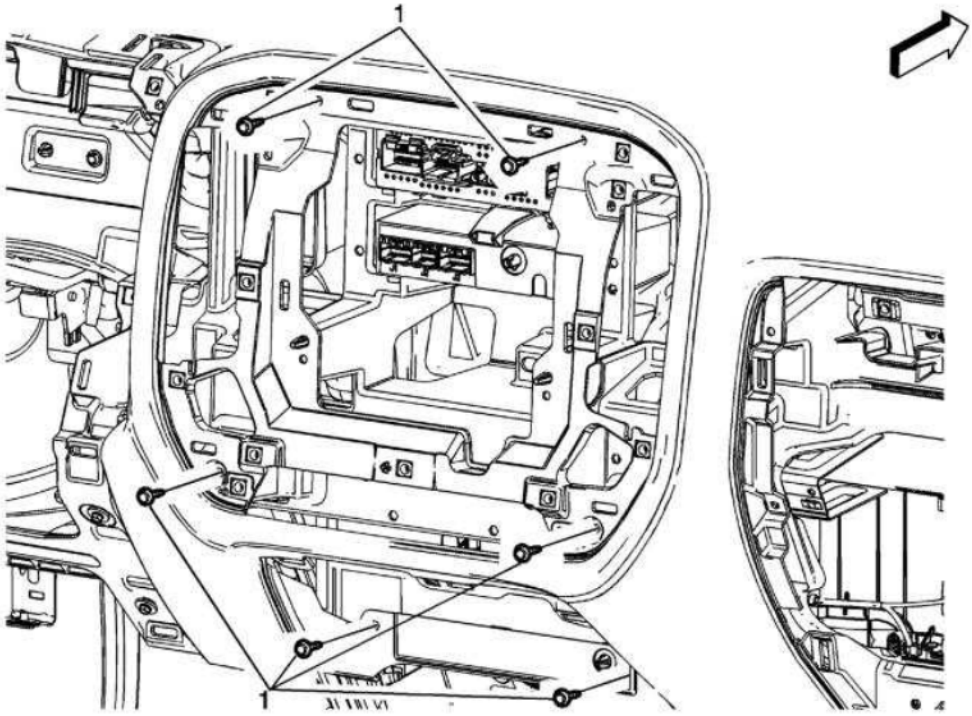


Fig. 75: Instrument Panel Assembly Fasteners
Courtesy of GENERAL MOTORS COMPANY

9. Install the instrument panel assembly fasteners (1) and tighten to 2.5 N.m (22 lb in).

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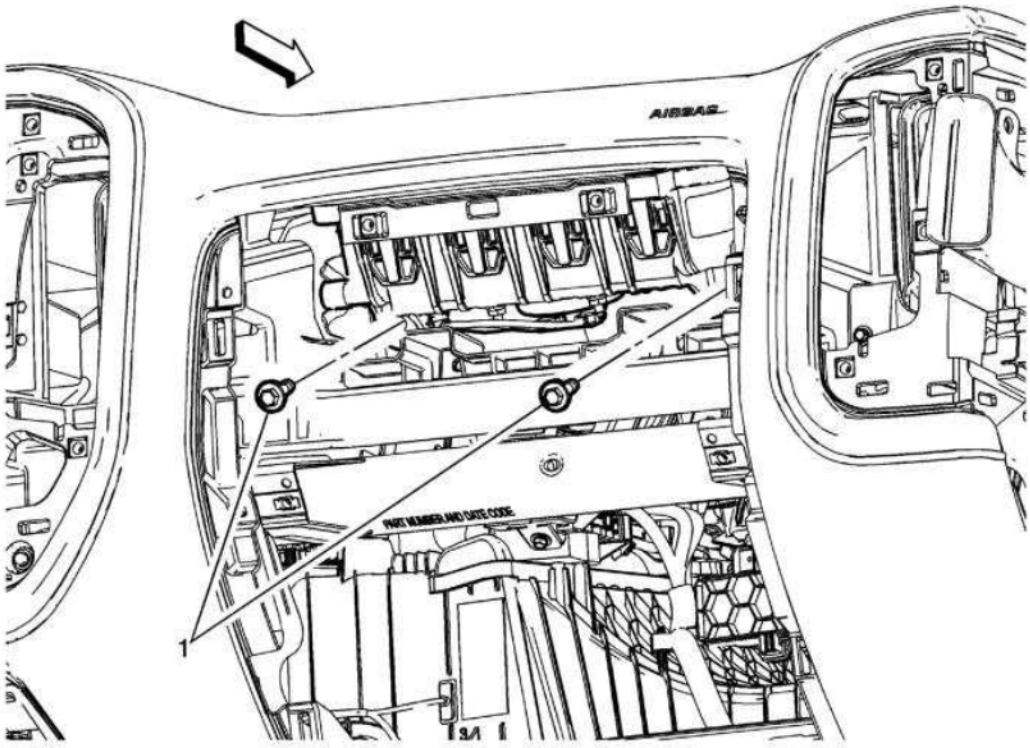


Fig. 76: Instrument Panel Inflatable Restraint Module Fasteners
Courtesy of GENERAL MOTORS COMPANY

10. Install the instrument panel inflatable restraint module fasteners (1) and tighten to 9 N.m (80 lb in).

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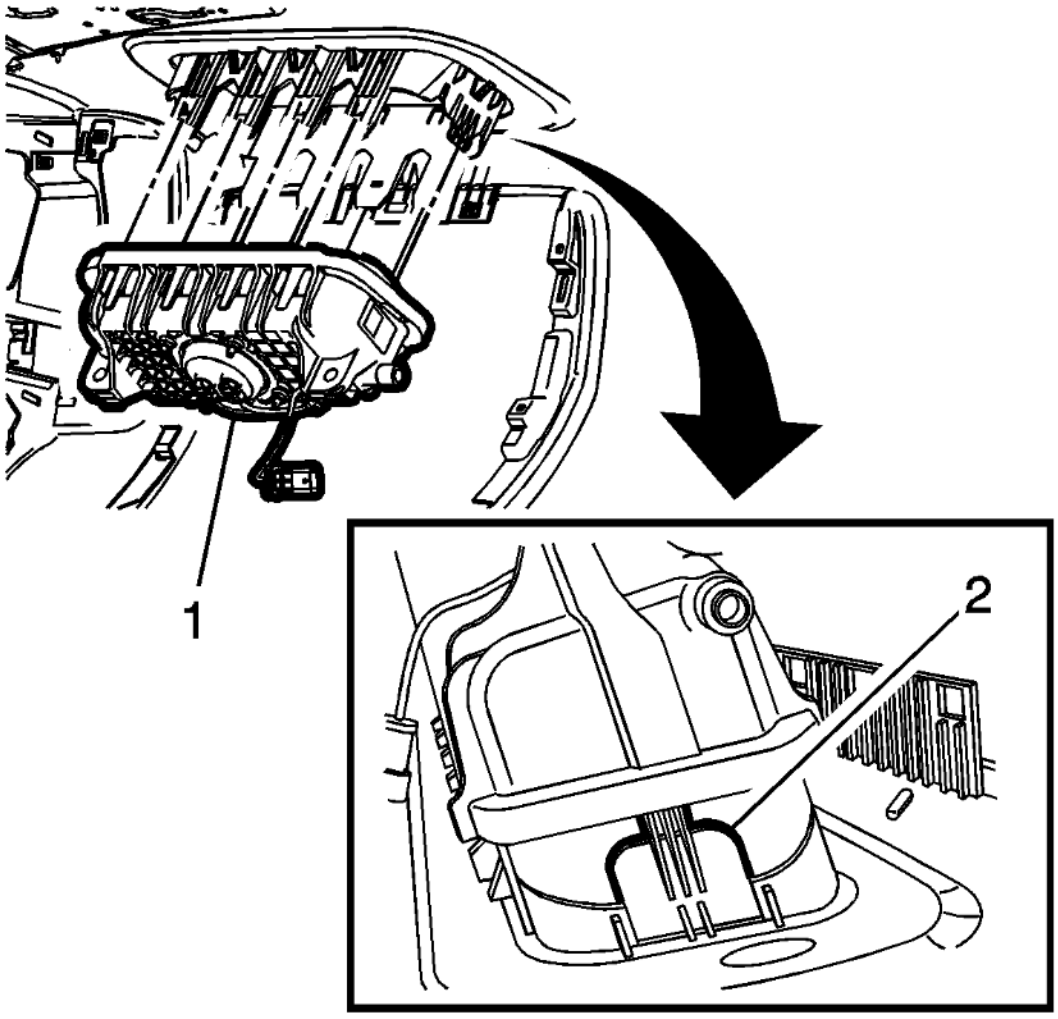


Fig. 77: Instrument Panel Airbag
Courtesy of GENERAL MOTORS COMPANY

11. Connect the instrument panel airbag inline pigtail connector. Refer to **Instrument Panel Airbag Replacement** .

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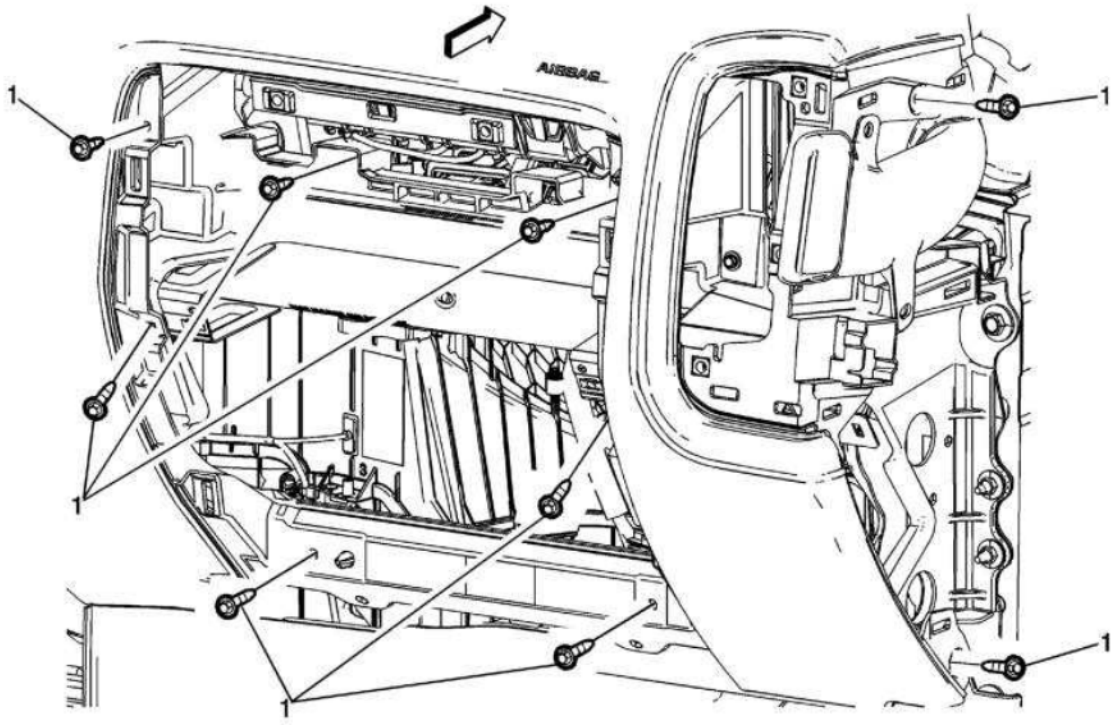


Fig. 78: Instrument Panel Assembly Fasteners
Courtesy of GENERAL MOTORS COMPANY

12. Install the instrument panel assembly fasteners (1) and tighten to 2.5 N.m (22 lb in).

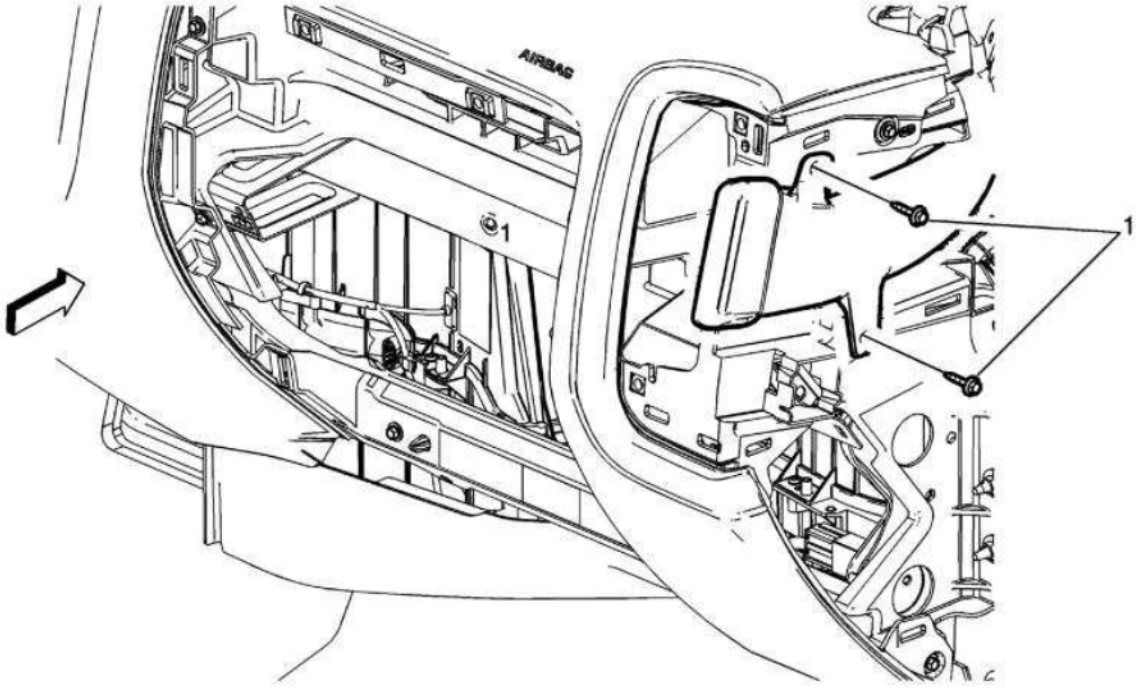


Fig. 79: Side Window Defogger Outlet Duct Fasteners

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Courtesy of GENERAL MOTORS COMPANY

13. Install the side window defogger outlet duct fasteners (1) and tighten to 2.5 N.m (22 lb in).

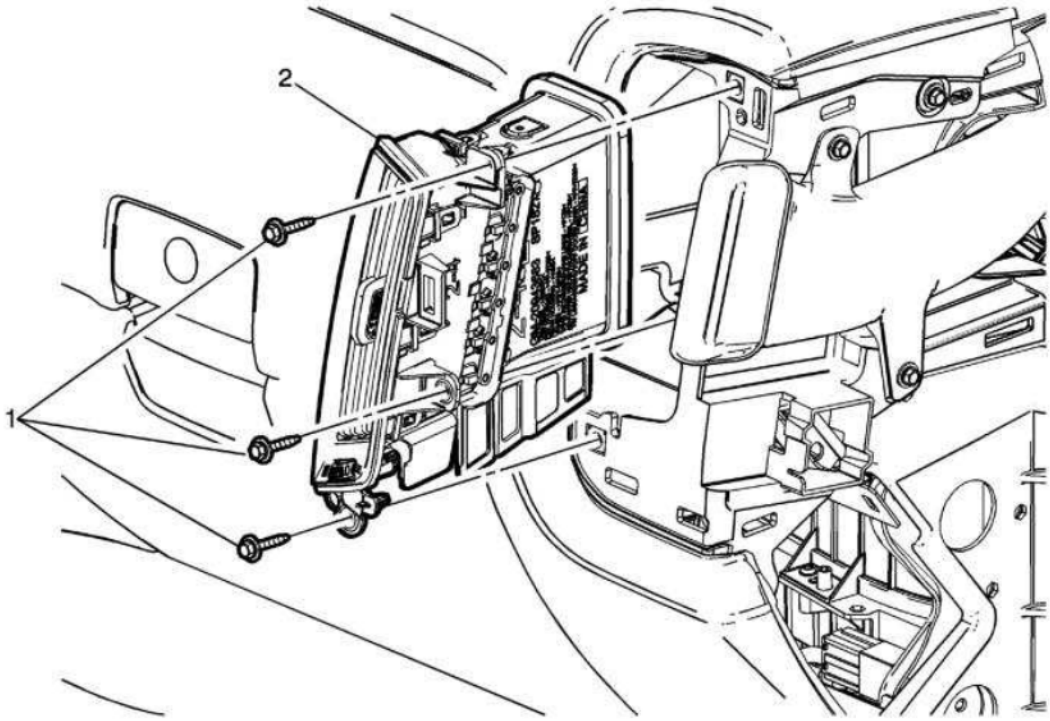


Fig. 80: Right Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

14. Install the right instrument panel outer air outlet (2). Refer to **Instrument Panel Outer Air Outlet Replacement - Right Side** .

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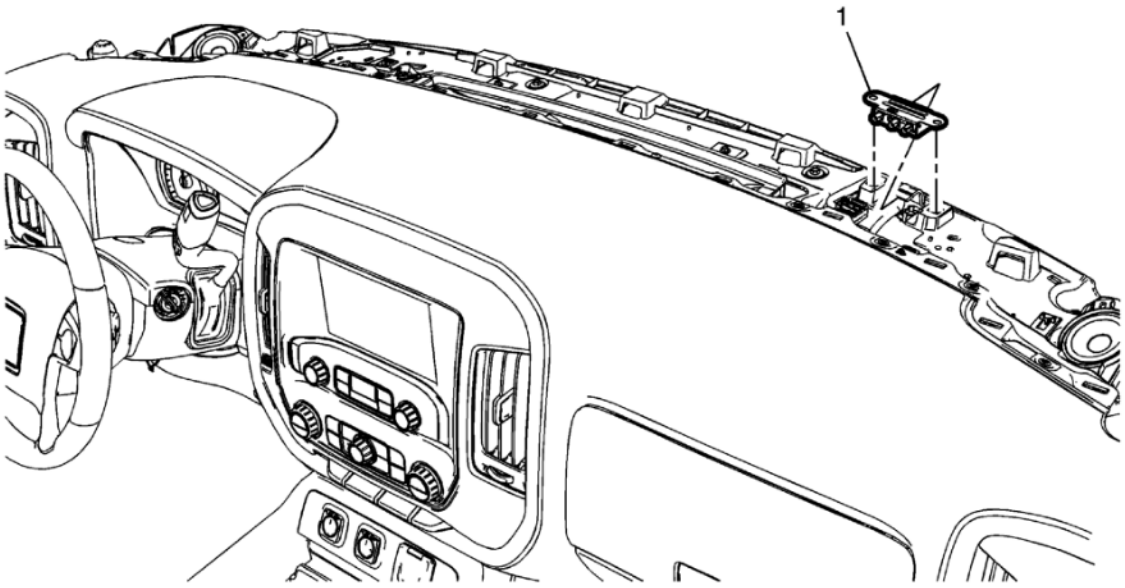


Fig. 81: Navigation Signal Splitter
Courtesy of GENERAL MOTORS COMPANY

15. Install the navigation signal splitter (1). Refer to **Navigation Signal Splitter Replacement** .

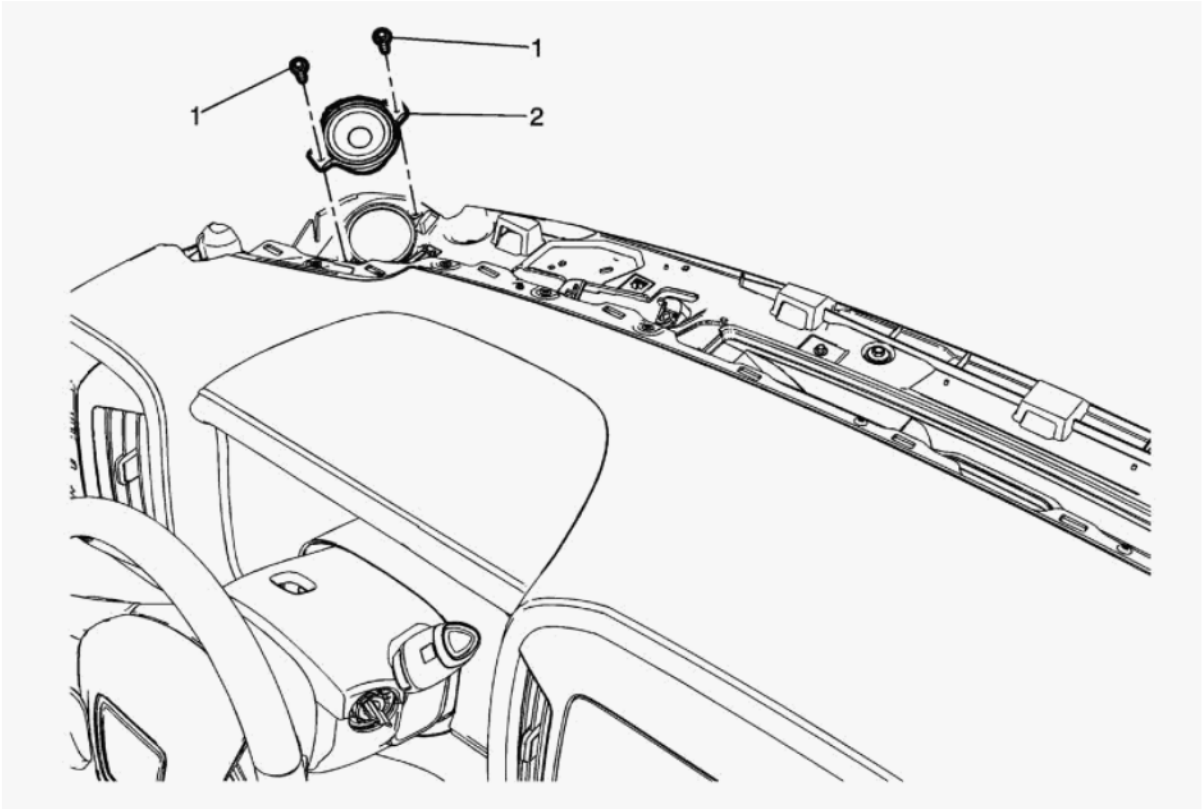


Fig. 82: Radio Speaker

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Courtesy of GENERAL MOTORS COMPANY

16. Install the left and right radio speaker (2). Refer to **Radio Speaker Replacement** .

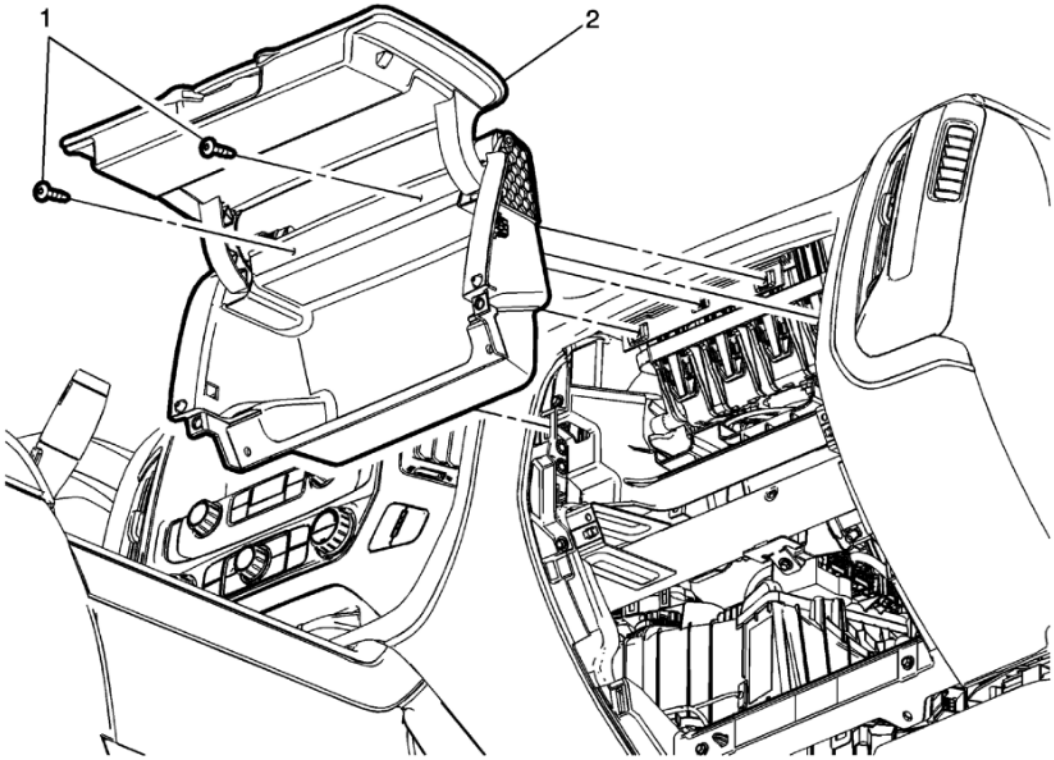


Fig. 83: Instrument Panel Upper Compartment
Courtesy of GENERAL MOTORS COMPANY

17. Install the instrument panel upper compartment (2). Refer to **Instrument Panel Upper Compartment Replacement**.

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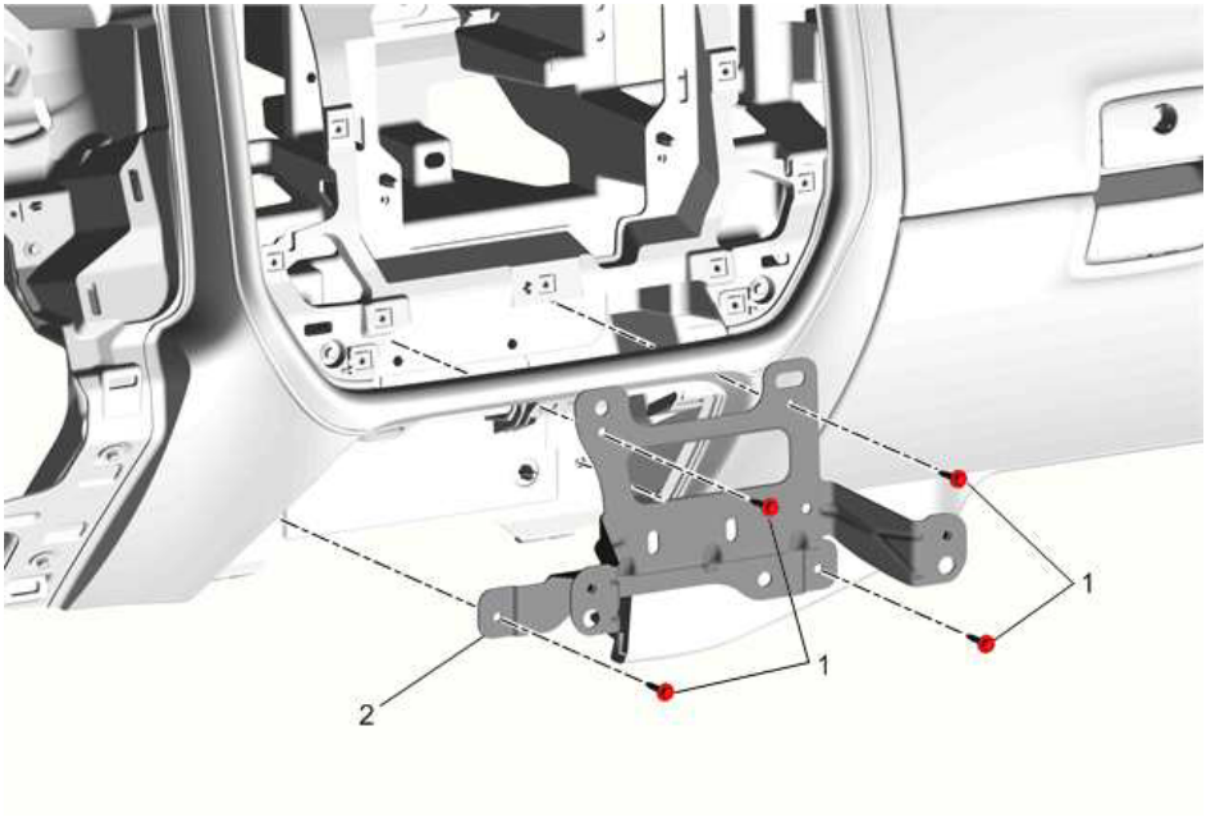
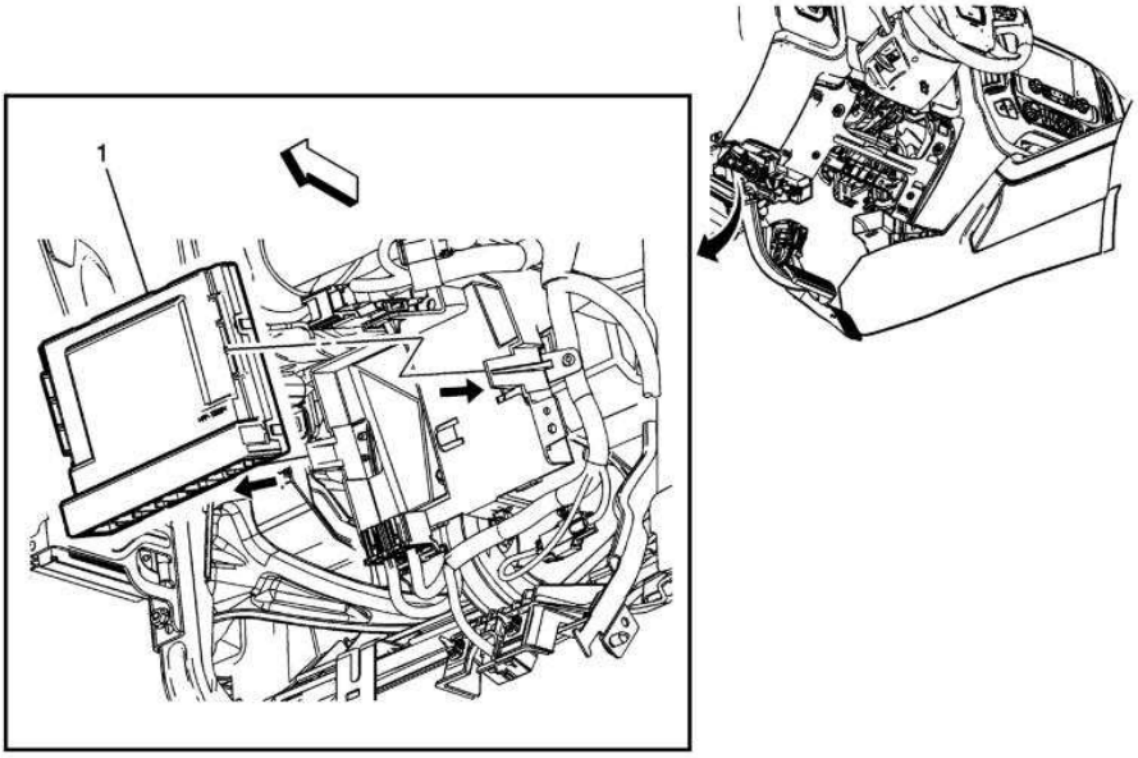


Fig. 84: Front Floor Console Bracket
Courtesy of GENERAL MOTORS COMPANY

18. Install the front floor console bracket (2).
19. Install the front floor console bolt (1) and tighten to 2.5 N.m (22 lb in).



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Fig. 85: Body Control Module
Courtesy of GENERAL MOTORS COMPANY

20. Install the body control module (1). Refer to **Body Control Module Replacement** .

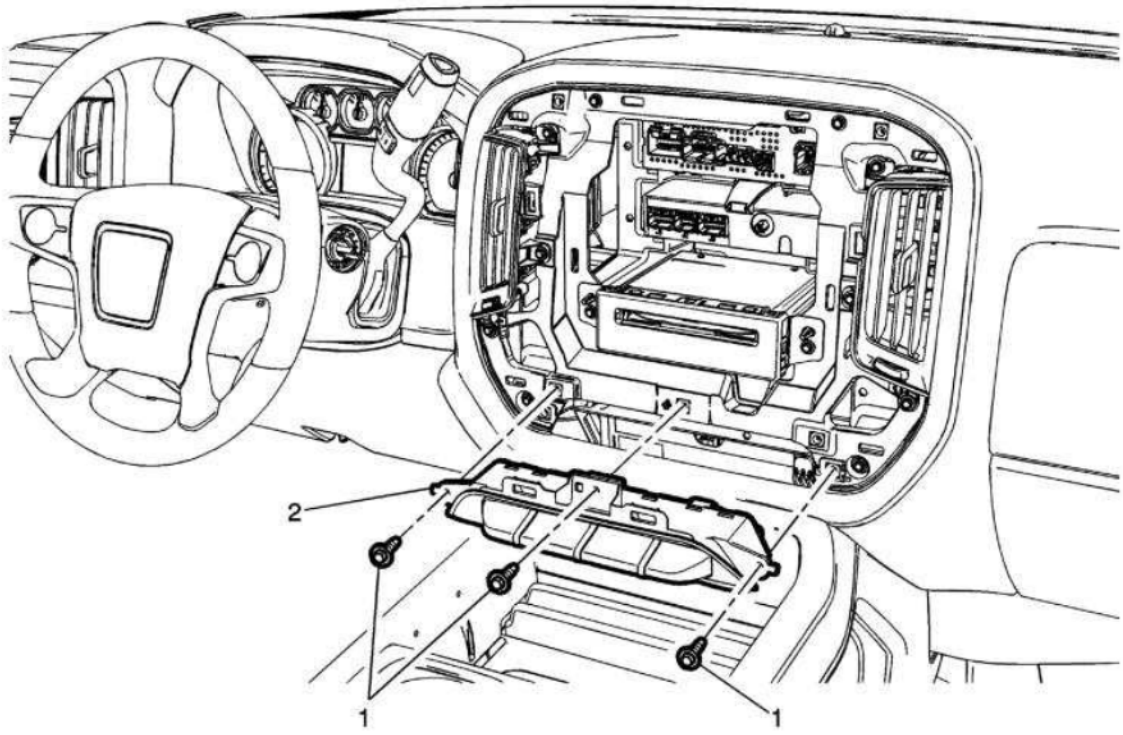


Fig. 86: Vehicle Stability Control System Switch
Courtesy of GENERAL MOTORS COMPANY

21. Install the vehicle stability control system switch (2). Refer to **Vehicle Stability Control System Switch Replacement** .

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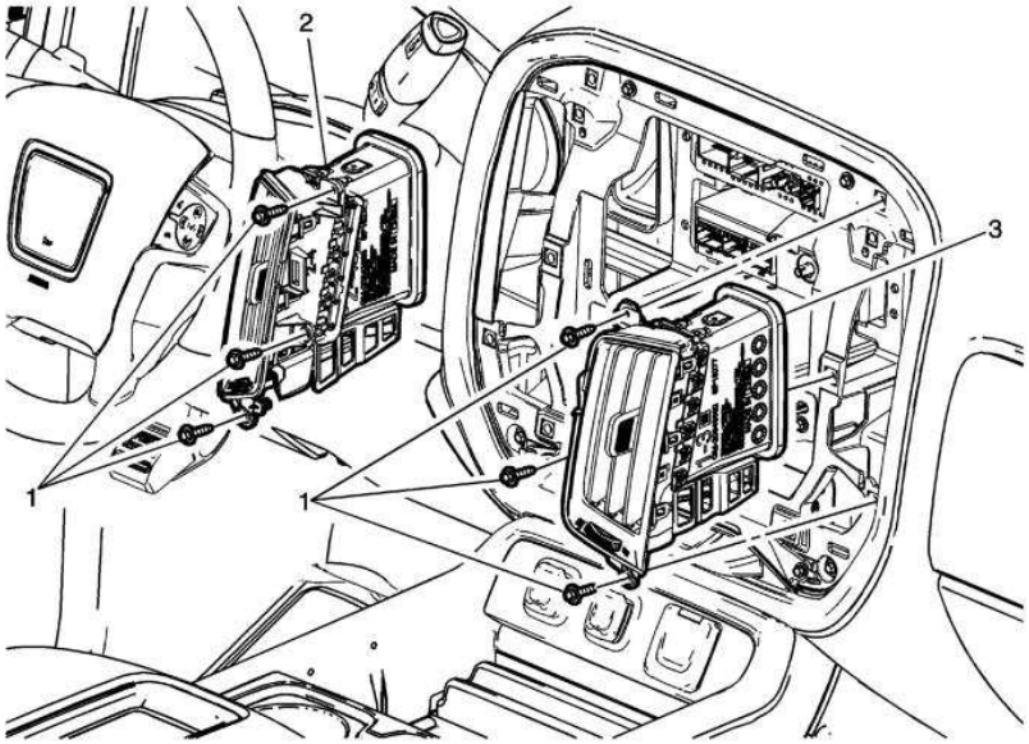
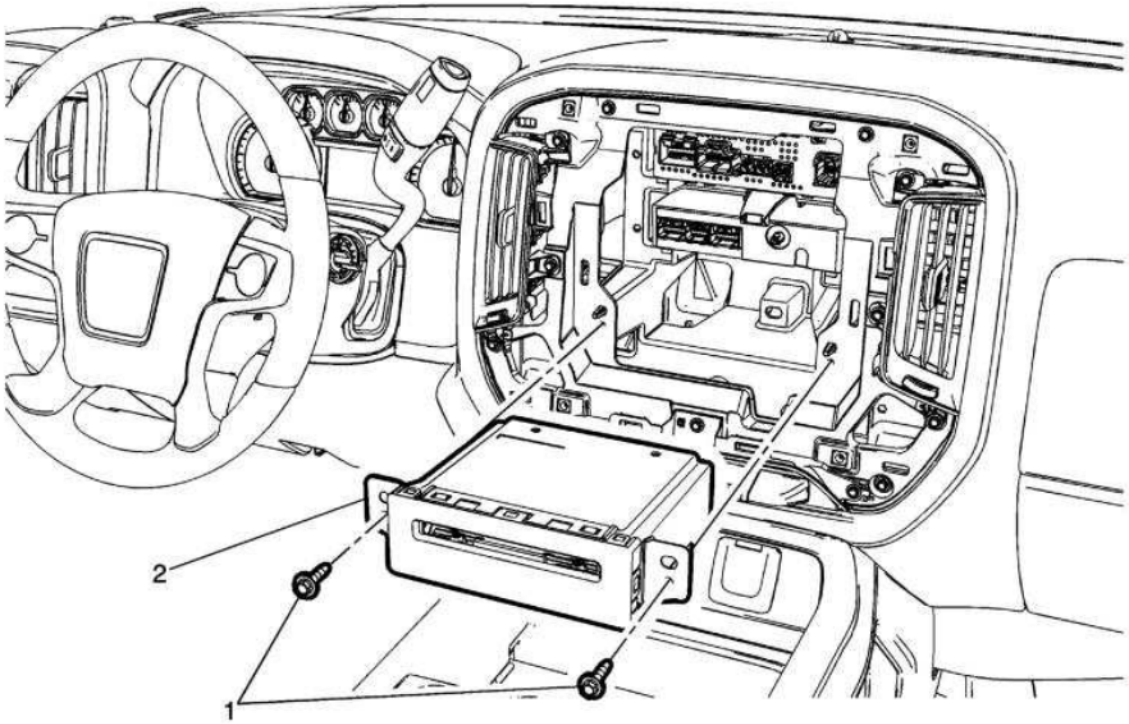


Fig. 87: Instrument Panel Center Air Outlet
Courtesy of GENERAL MOTORS COMPANY

22. Install the instrument panel center air outlet (2) and (3). Refer to **Instrument Panel Center Air Outlet Replacement** .



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Fig. 88: Audio Disc Player
Courtesy of GENERAL MOTORS COMPANY

23. Install the audio disc player (2). Refer to **Disc Player Replacement (With IO3, IO5, IO6)** **Disc Player Replacement (With IOB)** .

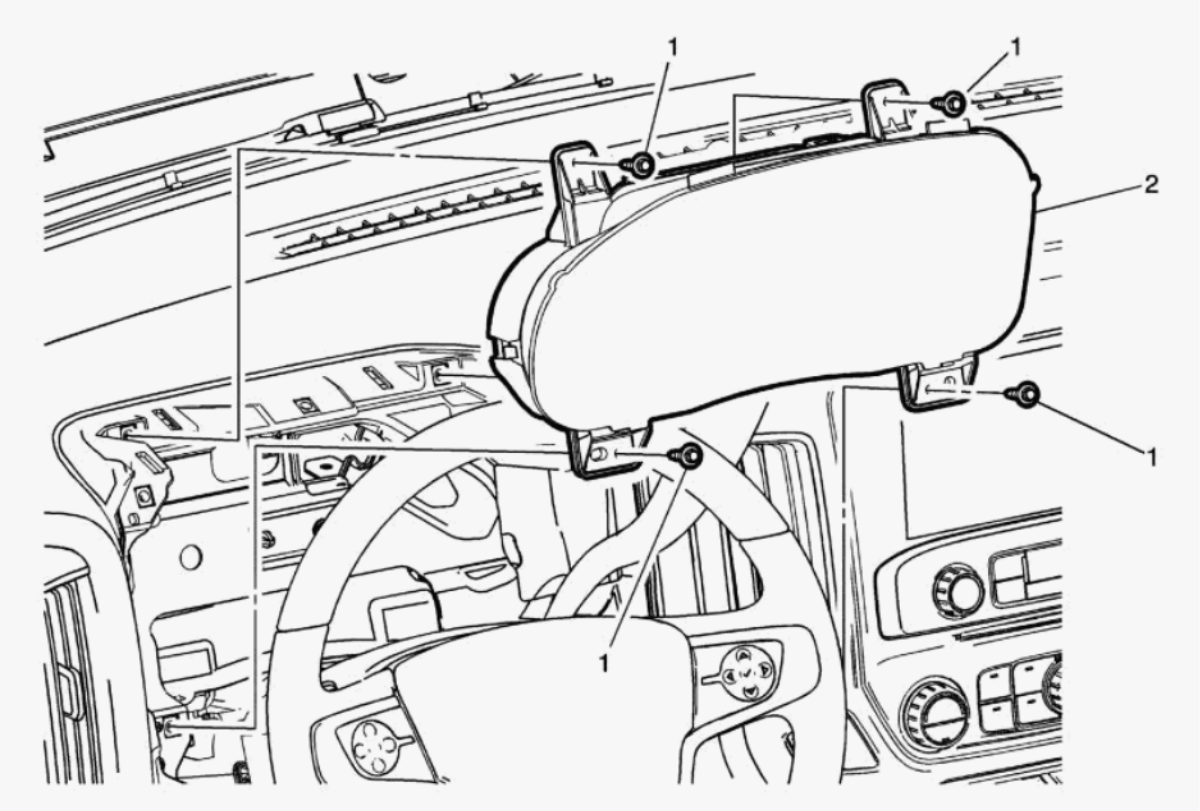


Fig. 89: Instrument Cluster
Courtesy of GENERAL MOTORS COMPANY

24. Install the instrument cluster (2). Refer to **Instrument Cluster Replacement** .

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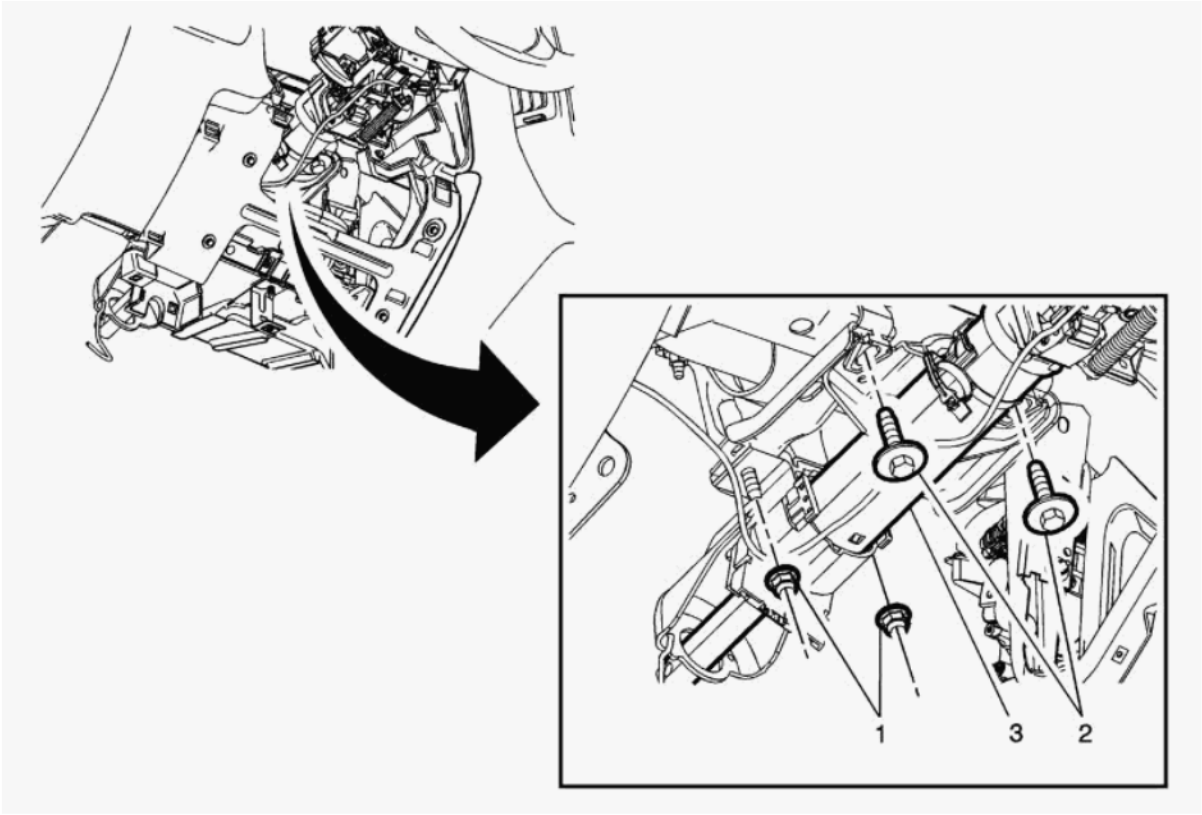


Fig. 90: Steering Column
Courtesy of GENERAL MOTORS COMPANY

25. Install the steering column (3). Refer to **Steering Column Replacement** .

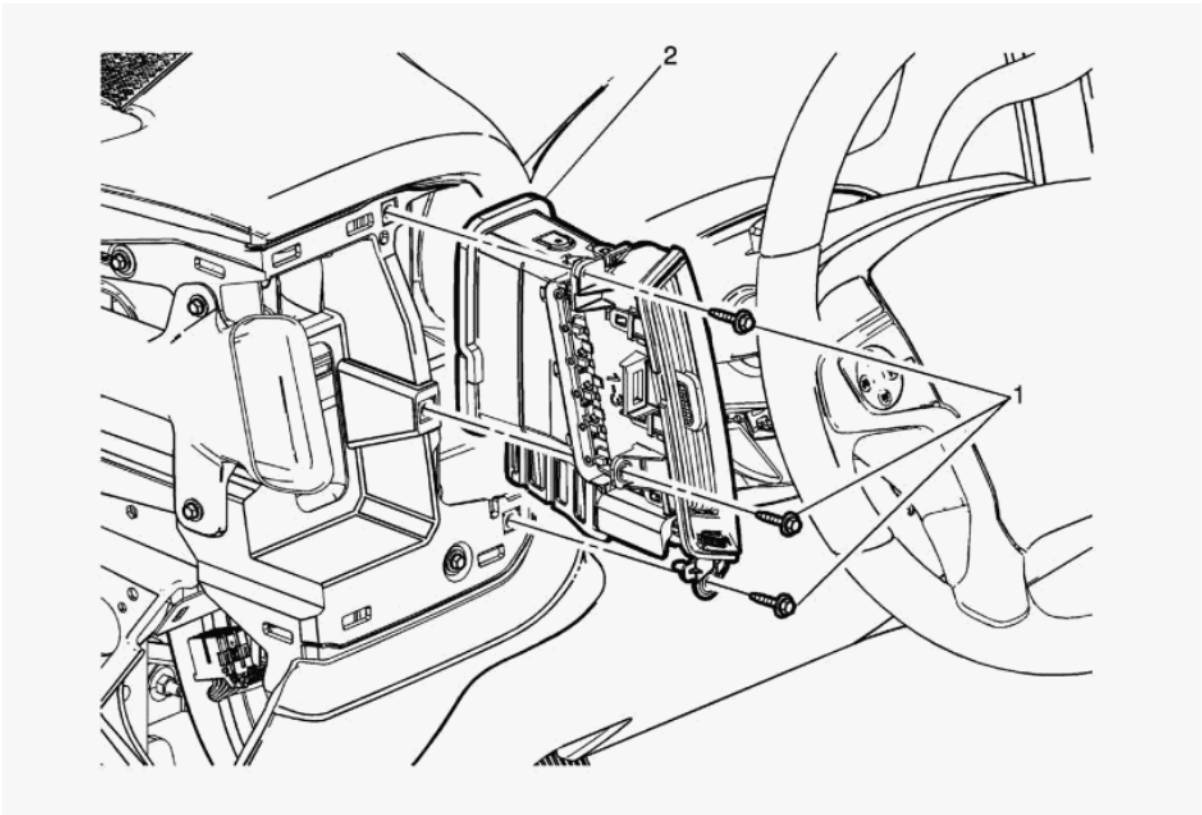


Fig. 91: Left Instrument Panel Outer Air Outlet

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Courtesy of GENERAL MOTORS COMPANY

26. Install the left instrument panel outer air outlet (2). Refer to **Instrument Panel Outer Air Outlet Replacement - Left Side** .

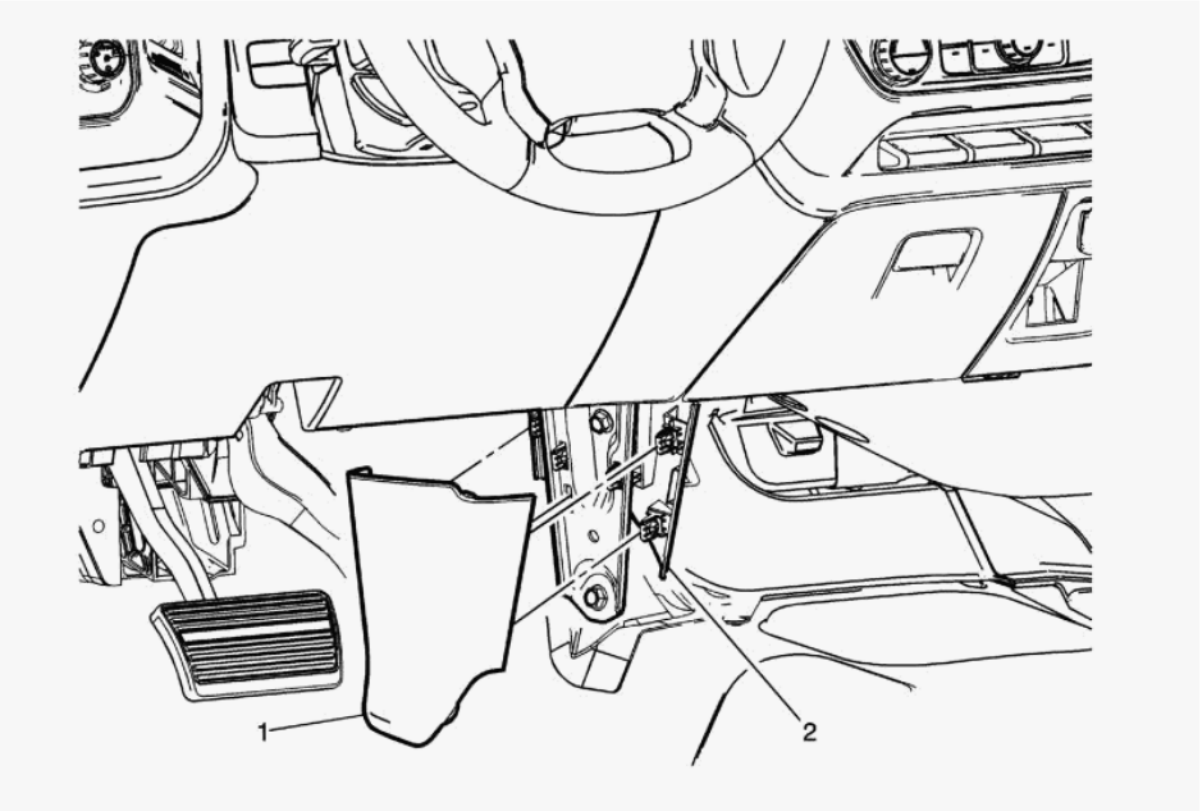


Fig. 92: Instrument Panel Lower Center Trim Panel
Courtesy of GENERAL MOTORS COMPANY

27. Install the instrument panel lower center trim panel (1) and (2), if equipped. Refer to **Instrument Panel Lower Center Trim Panel Replacement**.

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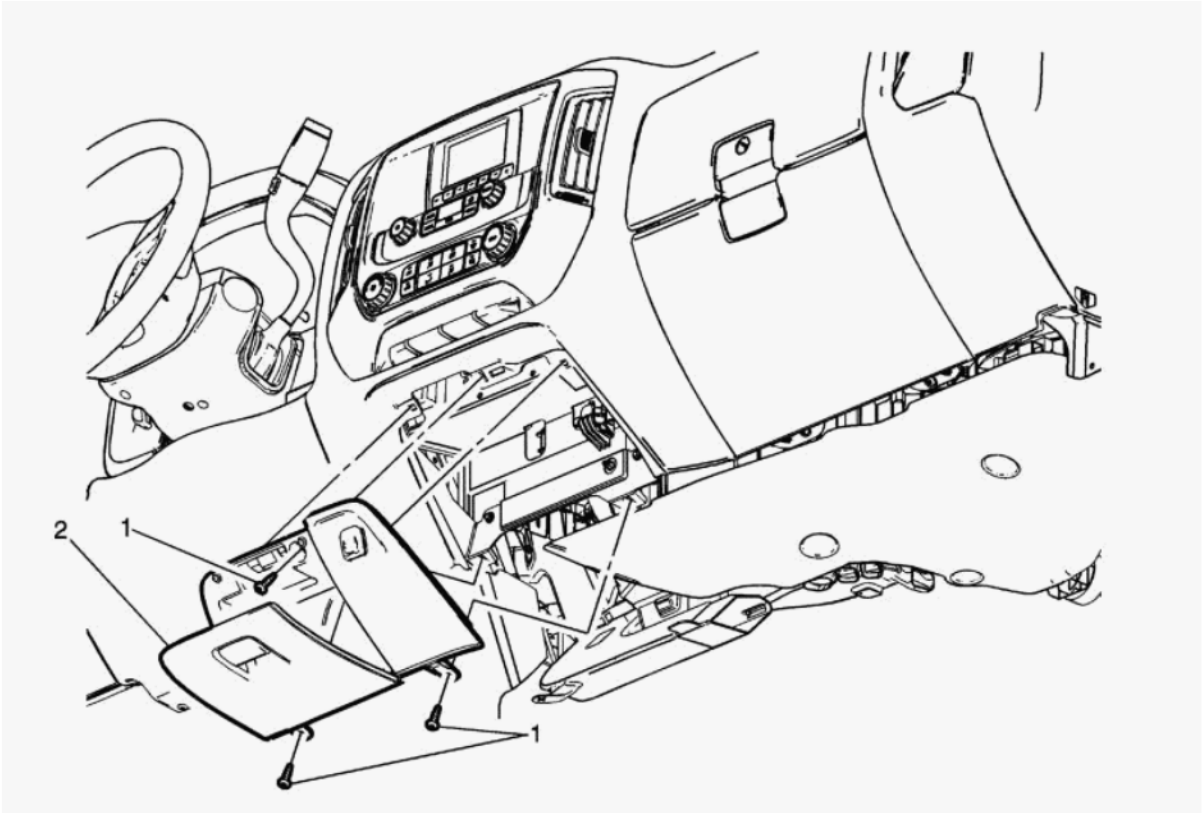
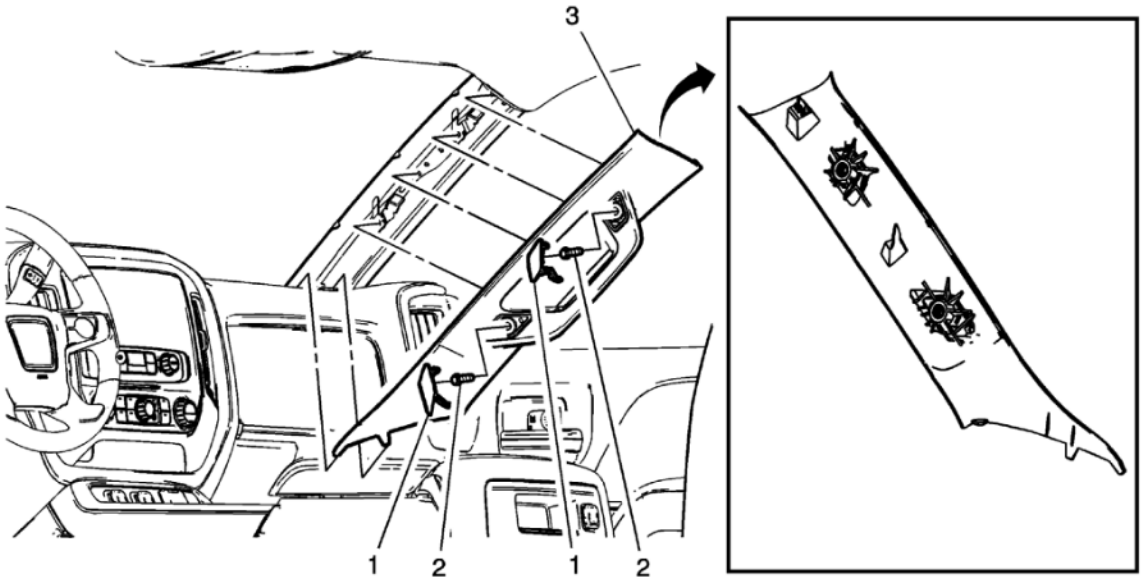


Fig. 93: Instrument Panel Center Compartment
Courtesy of GENERAL MOTORS COMPANY

28. Install the instrument panel center compartment (2), if equipped. Refer to **Instrument Panel Center Compartment Replacement**.



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Fig. 94: Windshield Garnish Molding Assembly Right Side
Courtesy of GENERAL MOTORS COMPANY

29. Install the right windshield garnish molding (3). Refer to **Windshield Garnish Molding Replacement - Right Side** .

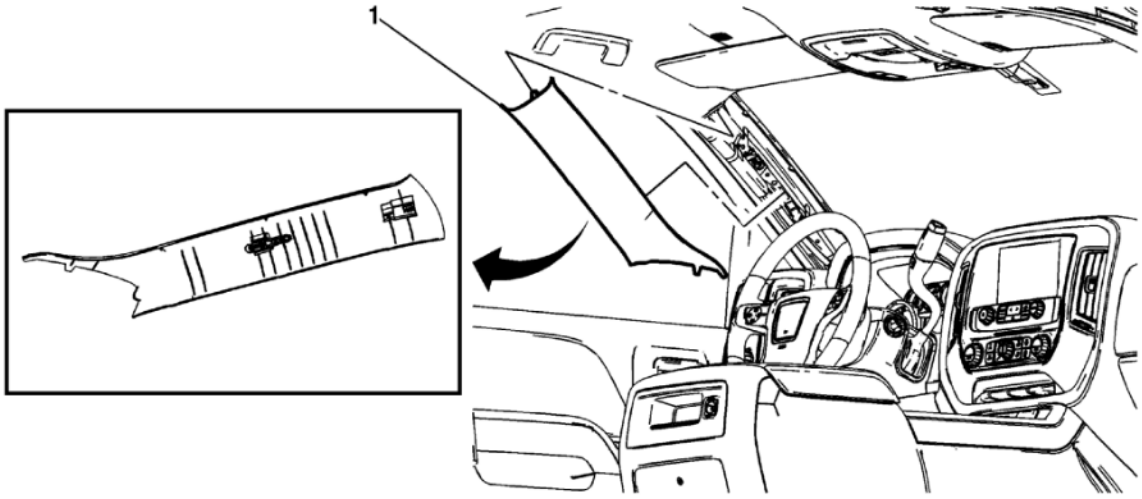


Fig. 95: Windshield Garnish Molding Assembly Left Side
Courtesy of GENERAL MOTORS COMPANY

30. Install the left windshield garnish molding (1). Refer to **Windshield Garnish Molding Replacement - Left Side** .

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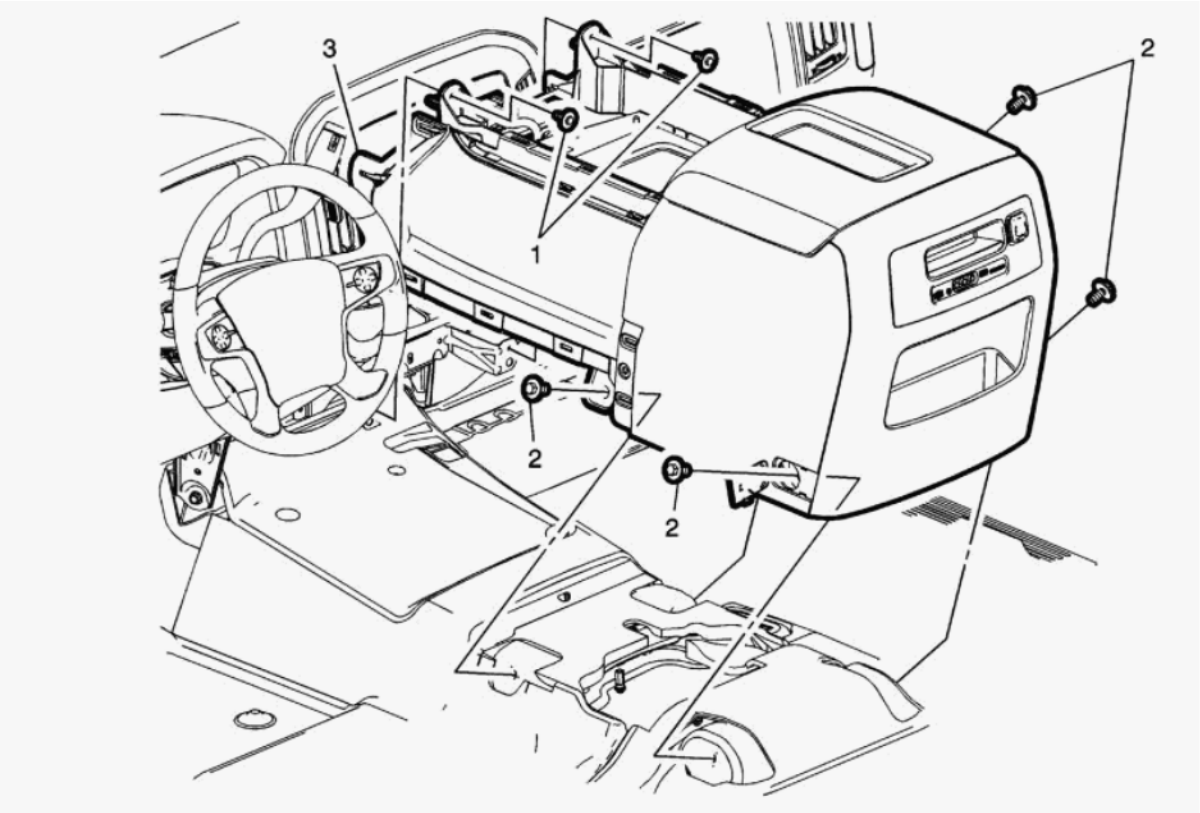


Fig. 96: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

31. Install the front floor console (3), if equipped. Refer to **Front Floor Console Assembly Replacement (without HP5)Front Floor Console Assembly Replacement (with HP5)**.
32. Enable the SIR system. Refer to **SIR Disabling and Enabling** .

INSTRUMENT CARRIER REPLACEMENT

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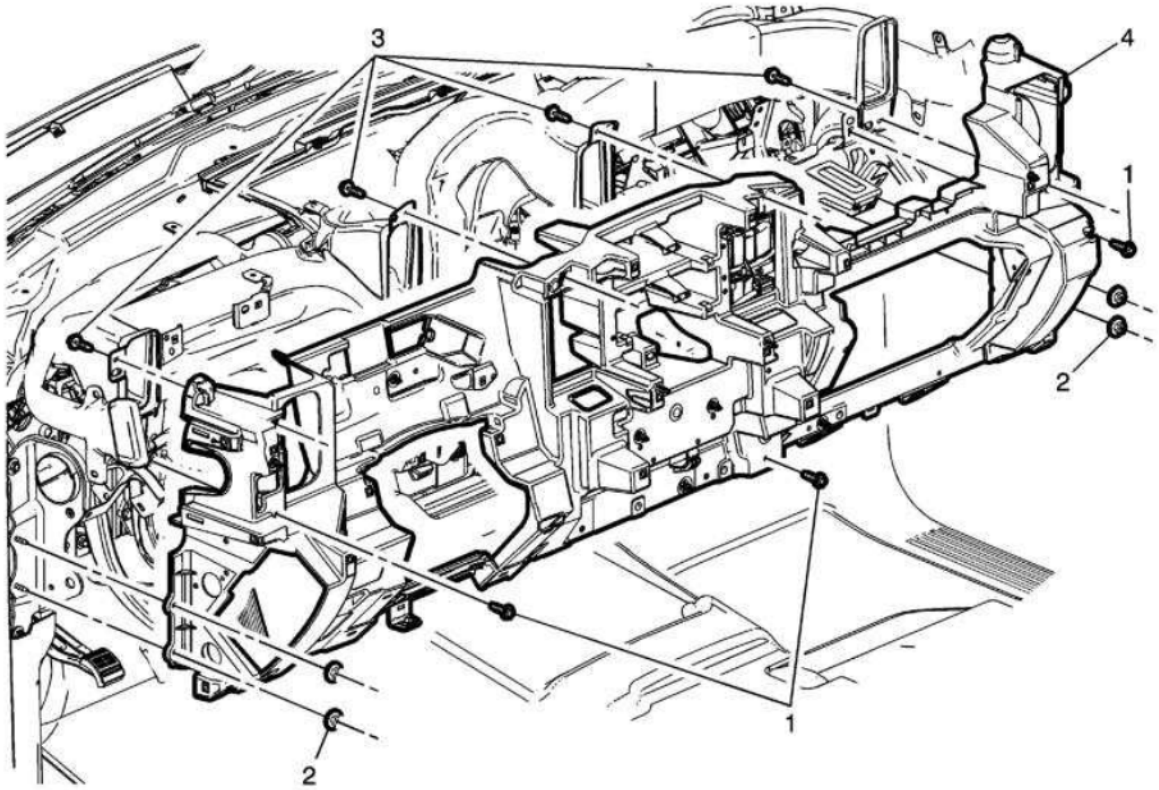


Fig. 97: Instrument Carrier
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. **Instrument Panel Assembly Replacement** 2. **Radio Replacement (With I03, I05, I06)** **Radio Replacement (With IOB)** 3. **Communication Interface Module Replacement** 4. **Instrument Panel Wiring Harness Junction Block Replacement**	
1	Instrument Carrier Bolt **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Carrier Nut **Tighten** 9 N.m (80 lb in)
3	Air Distributor Front Duct Bolt **Tighten** 2.5 N.m (22 lb in)

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Callout	Component Name
4	Instrument Panel Carrier **Procedure** 1. Remove the wiring harness retainers and position out of the way. 2. Disconnect electrical connections, if applicable. 3. With the aid of an assistant lift the carrier rearward and upward away from the instrument panel tie bar. 4. If replacing the instrument panel carrier assembly, transfer all necessary components.

INSTRUMENT PANEL TIE BAR REPLACEMENT

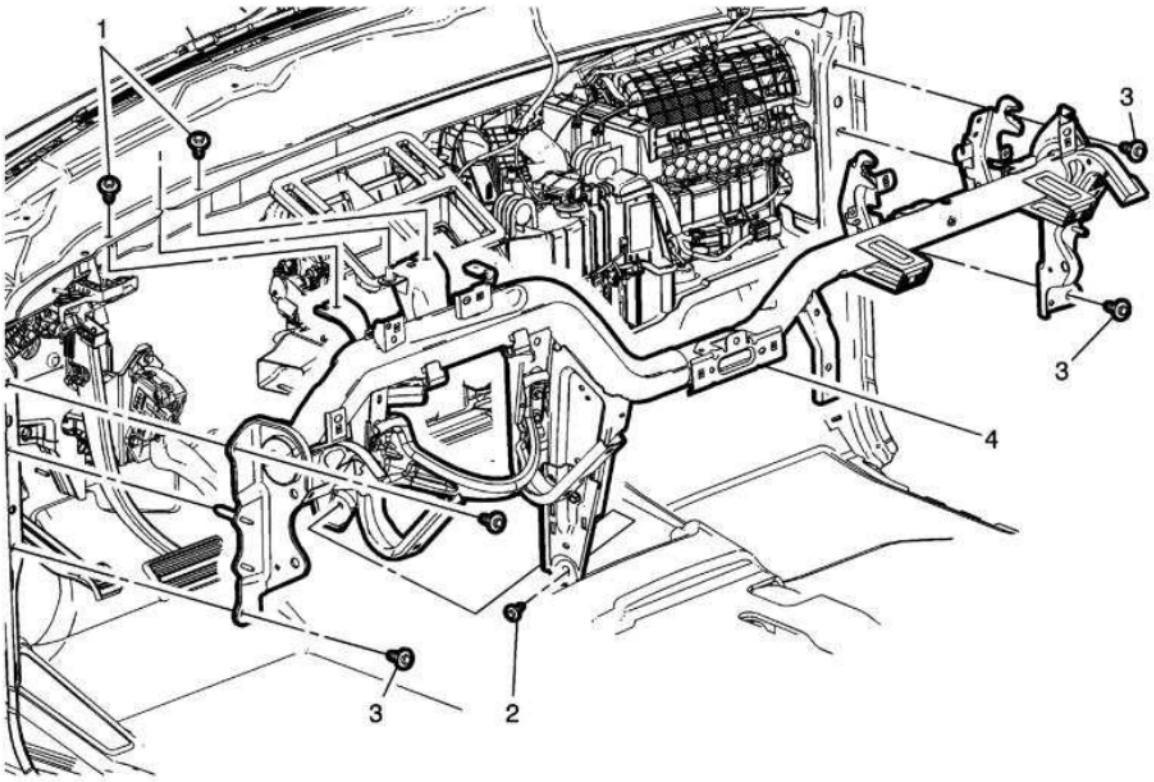


Fig. 98: Instrument Panel Tie Bar
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the instrument carrier. Refer to **Instrument Carrier Replacement**. 2. Remove the front floor door sill garnish molding. Refer to **Front Side Door Sill Garnish Molding Replacement (Crew Cab, Extended Cab)** **Front Side Door Sill Garnish Molding Replacement (Regular Cab)** . 3. Remove the human machine interface control module. Refer to **Human Machine Interface Control Module Replacement** .	

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INSTRUMENT PANEL TIE BAR BRACE REPLACEMENT

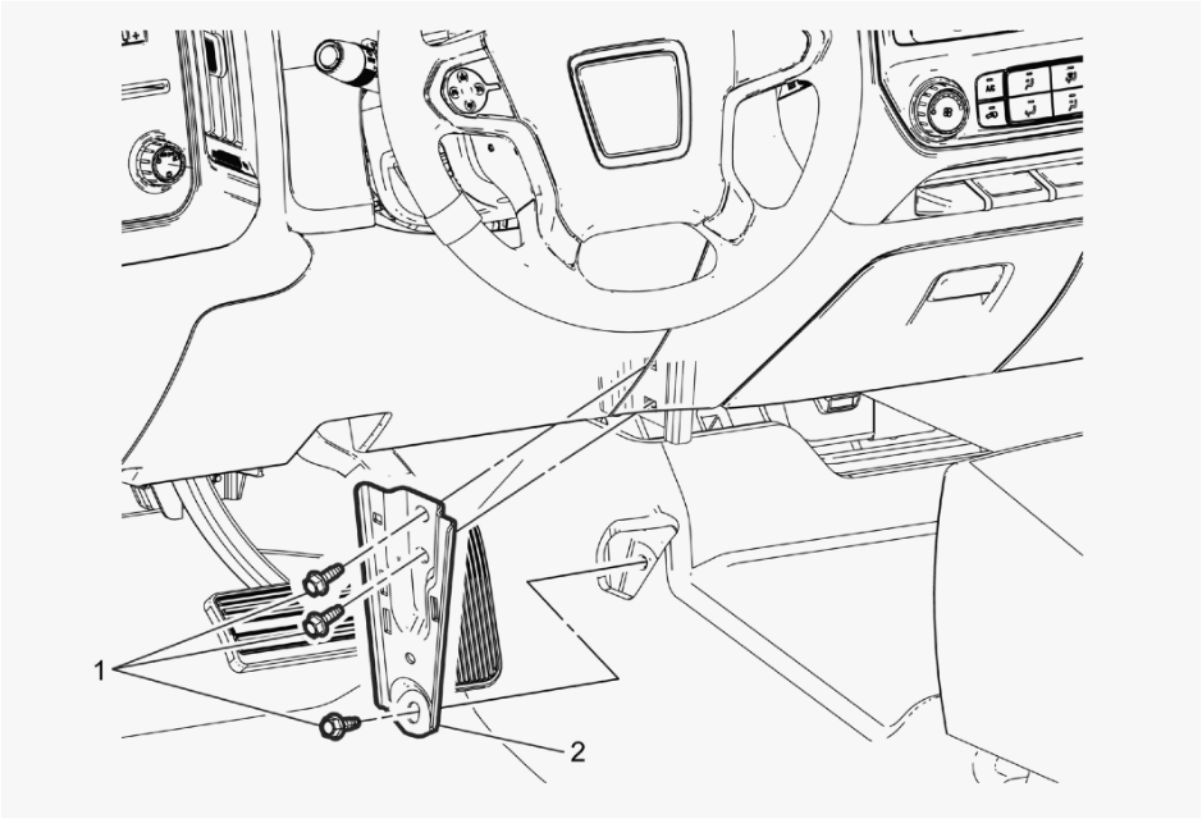


Fig. 99: Instrument Panel Tie Bar Brace
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the instrument panel lower center trim panel. Refer to **Instrument Panel Lower Center Trim Panel Replacement**.	
1	Instrument Panel Tie Bar Brace Bolt (Qty: 3) **CAUTION:** **Refer to Fastener Caution .** **Tighten** 22 N.m (16 lb ft)
2	Instrument Panel Tie Bar Brace

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

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- **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:
   - Use a sewing seam ripper, available from sewing supply stores, in order to cut open the harness in order to avoid wire insulation damage.

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- Use the DuraSeal splice sleeves on all types of insulation except Tefzel and coaxial.
- 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:
   - When adding a length of wire to the existing harness, use the same size wire as the original wire.
   - Perform one of the following items in order to find the correct wire size:
     - Find the wire on the schematic and convert to regional wiring gauge size.
     - 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.
   - Strip approximately 5.0 mm (0.20 in) of insulation from each wire to be spliced.
   - Do not nick or cut any of the strands. Inspect the stripped wire for nicks or cut strands.
   - 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.

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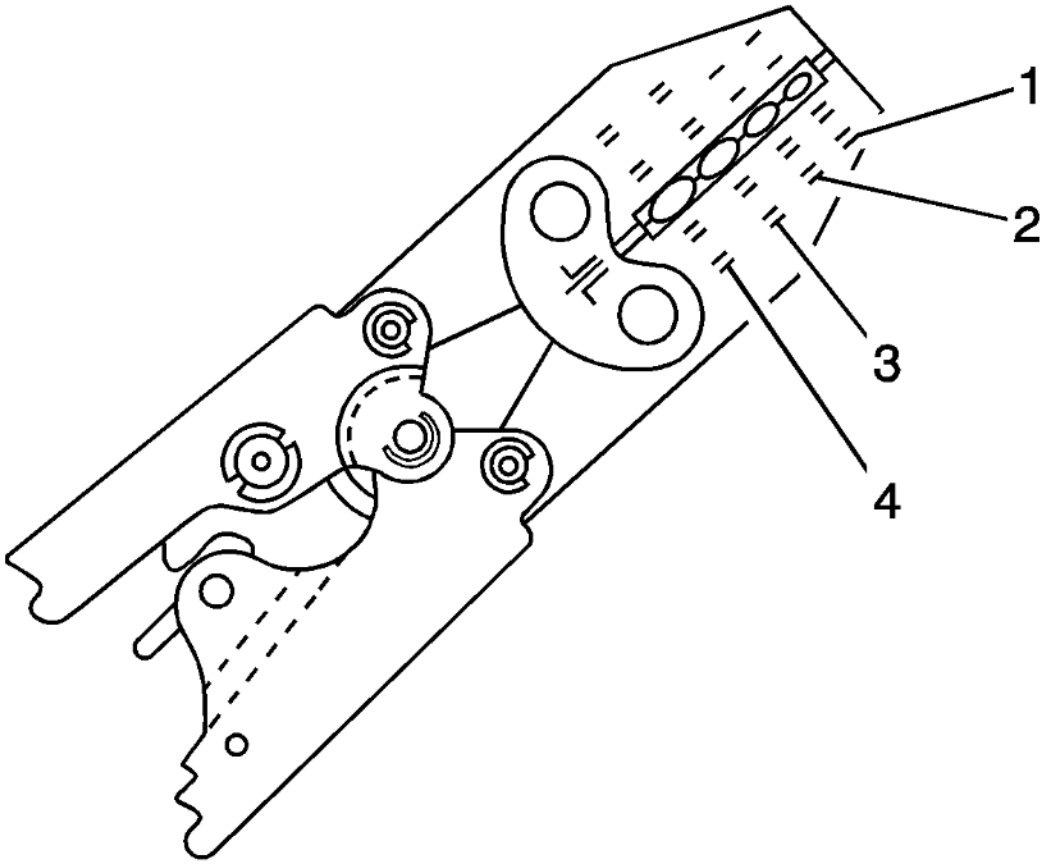


Fig. 100: Crimping Tool
Courtesy of GENERAL MOTORS COMPANY

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.

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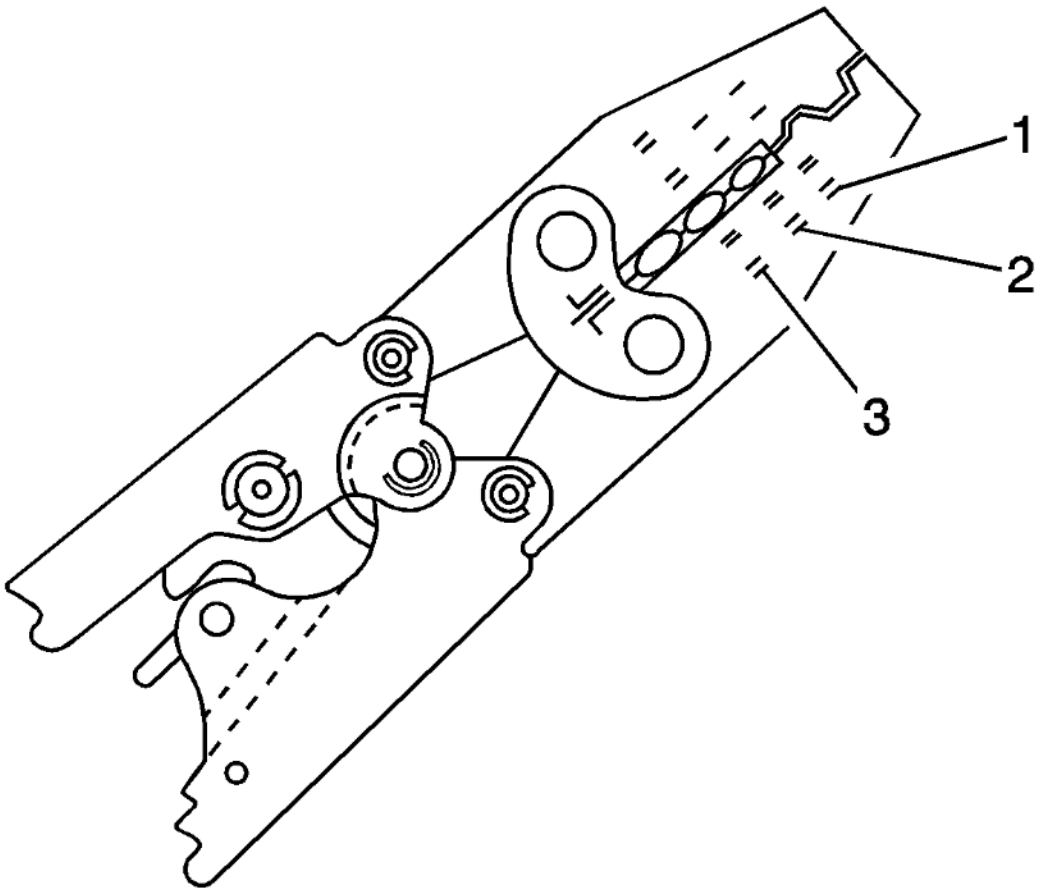


Fig. 101: Identifying Splice Crimp Tool Nests Terminal Identification
Courtesy of GENERAL MOTORS COMPANY

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).

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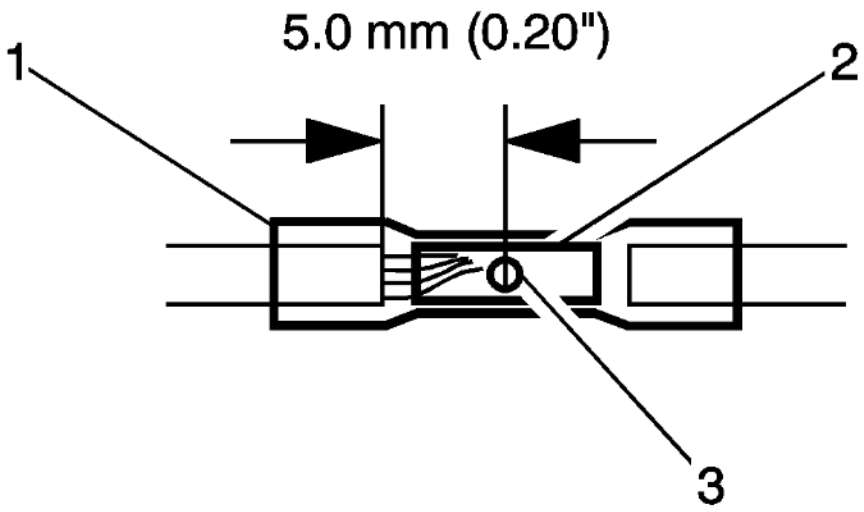


Fig. 102: Identifying Duraseal Splice Sleeve
Courtesy of GENERAL MOTORS COMPANY

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.

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Fig. 103: 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.

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Fig. 104: 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:
    - The tubing will shrink completely as the heat is moved along the insulation.
    - A small amount of sealant will come out of the end of the tubing when sufficient shrinkage is achieved.

Weatherpack™ Wiring Repair

NOTE: **Some replacement pigtail connectors may be delivered without the terminated leads installed into the connector. For Weatherpack™ connectors, all terminated leads included in the package should to be installed into the connector. If the connector end view shows that a terminal is not occupied, the extra terminated lead(s) need to be installed and the end(s) sealed using a DuraSeal splice sleeve and taped back into the harness.**

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1. 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.

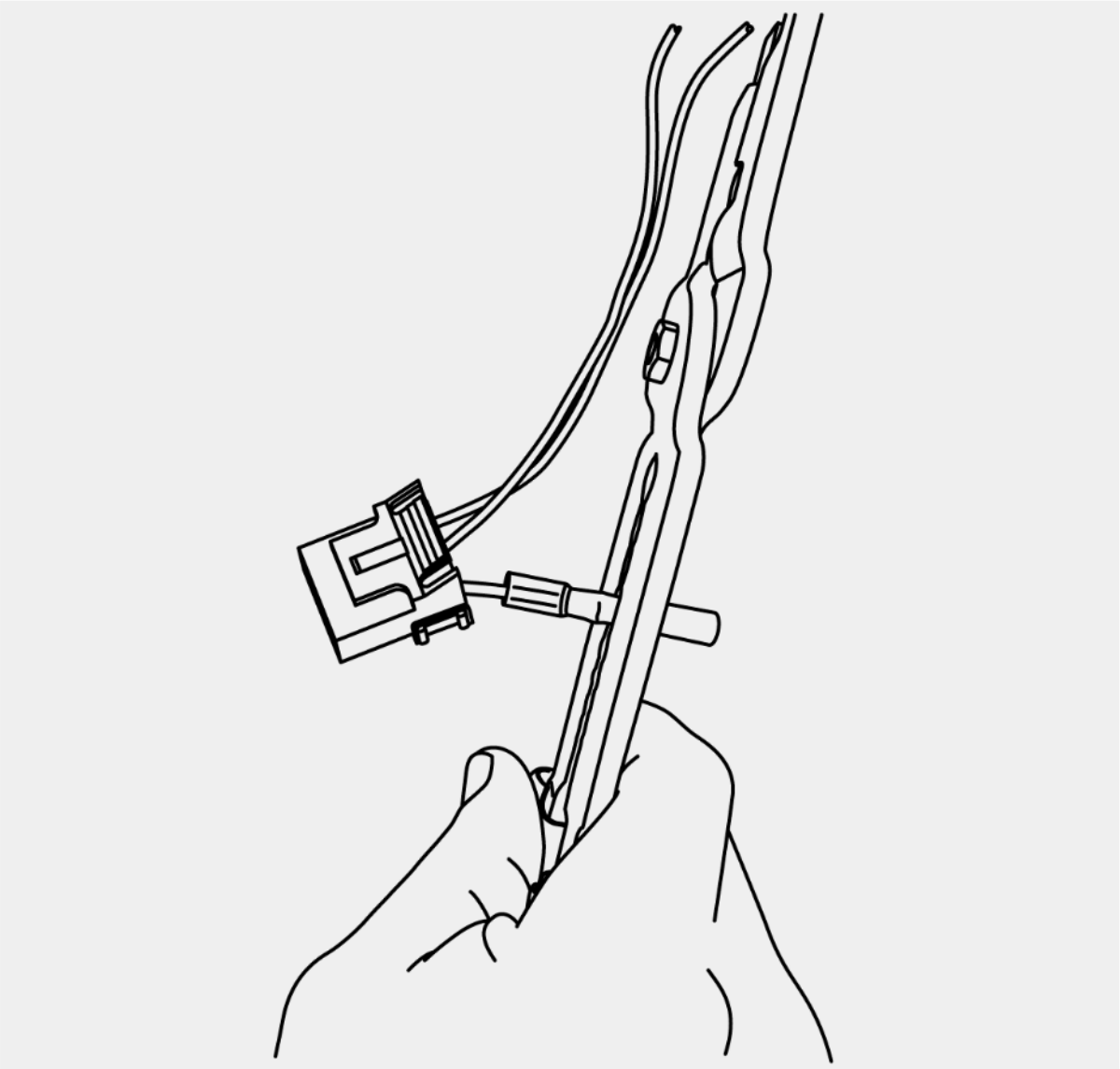


Fig. 105: Tightly Close Handles Of Crimp Tool
Courtesy of GENERAL MOTORS COMPANY

2. 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. Holding the DuraSEAL with one hand gently tug on the wire to ensure it is crimped in the DuraSeal.

3. Using the heat torch, apply heat to the crimped area of the barrel.

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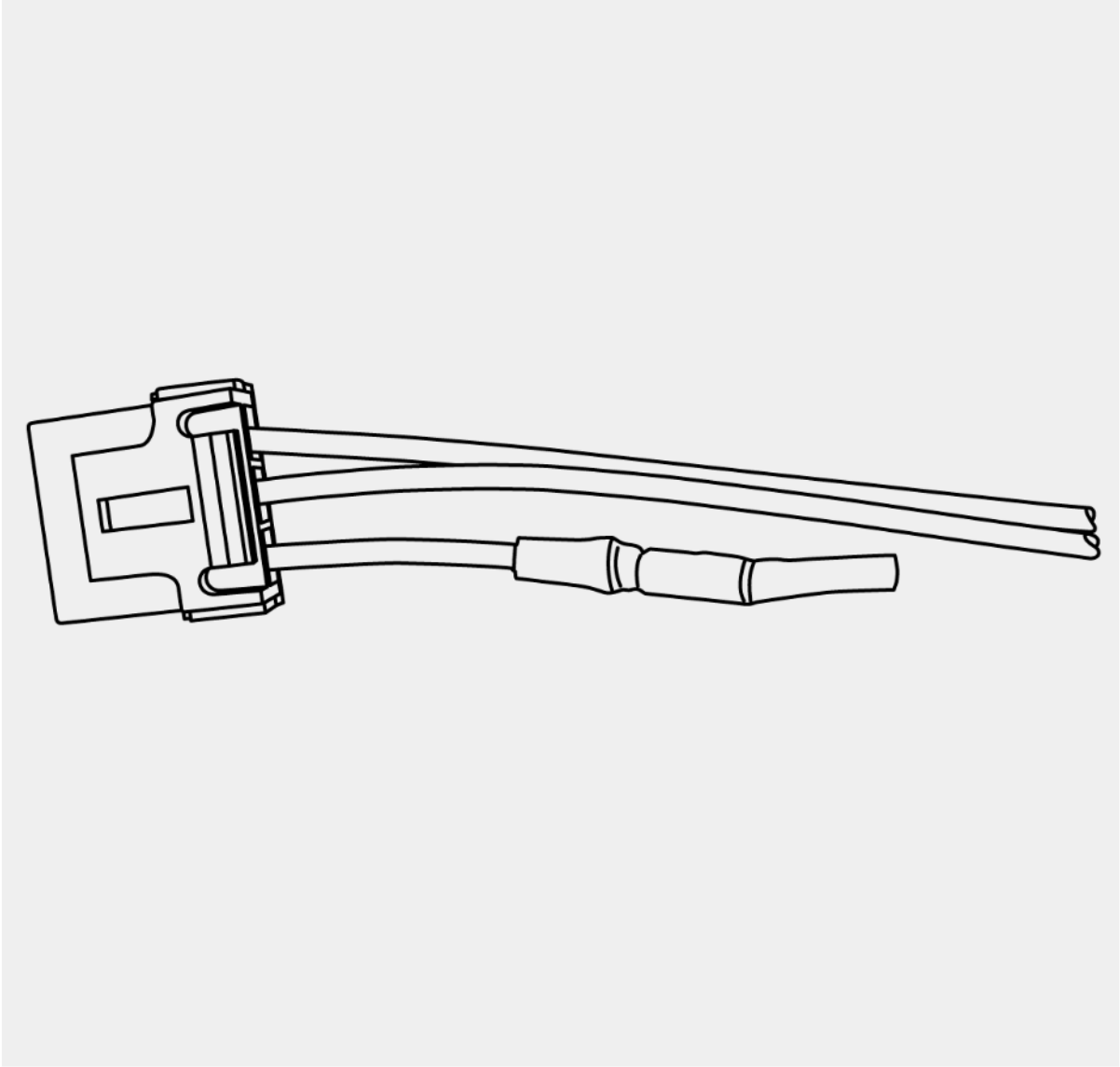


Fig. 106: Heat To Crimped Area Of Barrel
Courtesy of GENERAL MOTORS COMPANY

4. Start in the middle and gradually move the heat barrel to the open ends of the tubing:
    - The tubing will shrink completely as the heat is moved along the insulation.
    - A small amount of sealant will come out of the end of the tubing when sufficient shrinkage is achieved.

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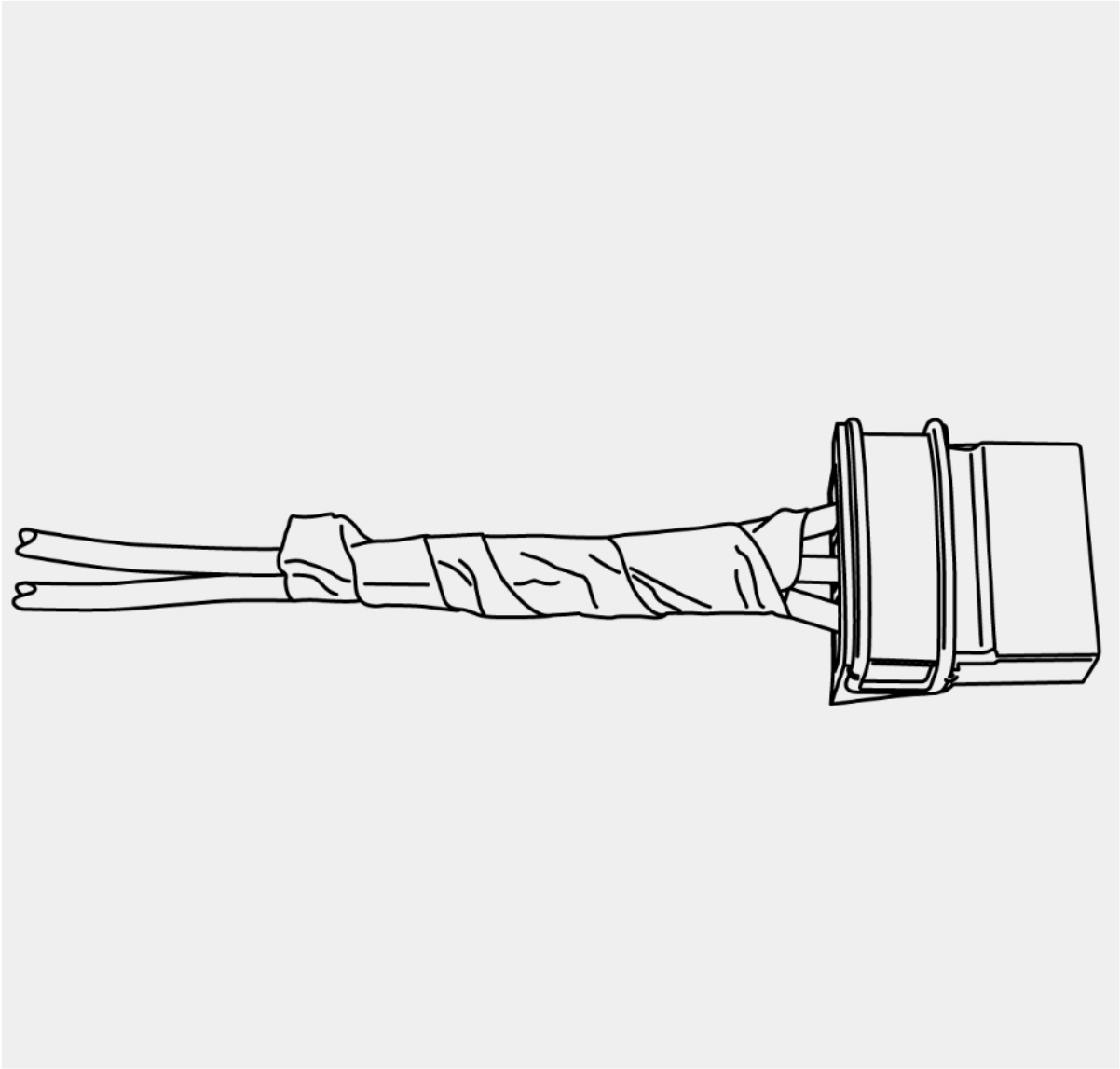


Fig. 107: Taping Extra Terminated Leads Back Into Harness
Courtesy of GENERAL MOTORS COMPANY

5. Tape the extra terminated lead(s) back into the harness.

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:
    - The tubing will shrink completely as the heat is moved along the insulation.
    - 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.

CONNECTOR RECONNECTION - INSTRUMENT PANEL AND CONSOLE

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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:

- Loose, corroded, or painted terminal stud/fastener
- Wiring broken inside the insulation
- Poor connection between the male and female terminal at a connector
- A terminal not seated all the way into the connector body
- 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.

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.

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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.

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

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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 (1500)** **Power Distribution Schematics (2500/3500)** .

- 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 (screw or stud). 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 (1500)** **Ground Distribution Schematics (2500/3500)** .

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.

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

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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.

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.

FRONT FLOOR CONSOLE WIRING HARNESS REPLACEMENT

Removal Procedure

1. Remove the front floor console assembly. Refer to **Front Floor Console Assembly Replacement (without HP5)Front Floor Console Assembly Replacement (with HP5)**.
2. Remove the front floor console rear trim panel. Refer to **Front Floor Console Rear Trim Panel Replacement**.

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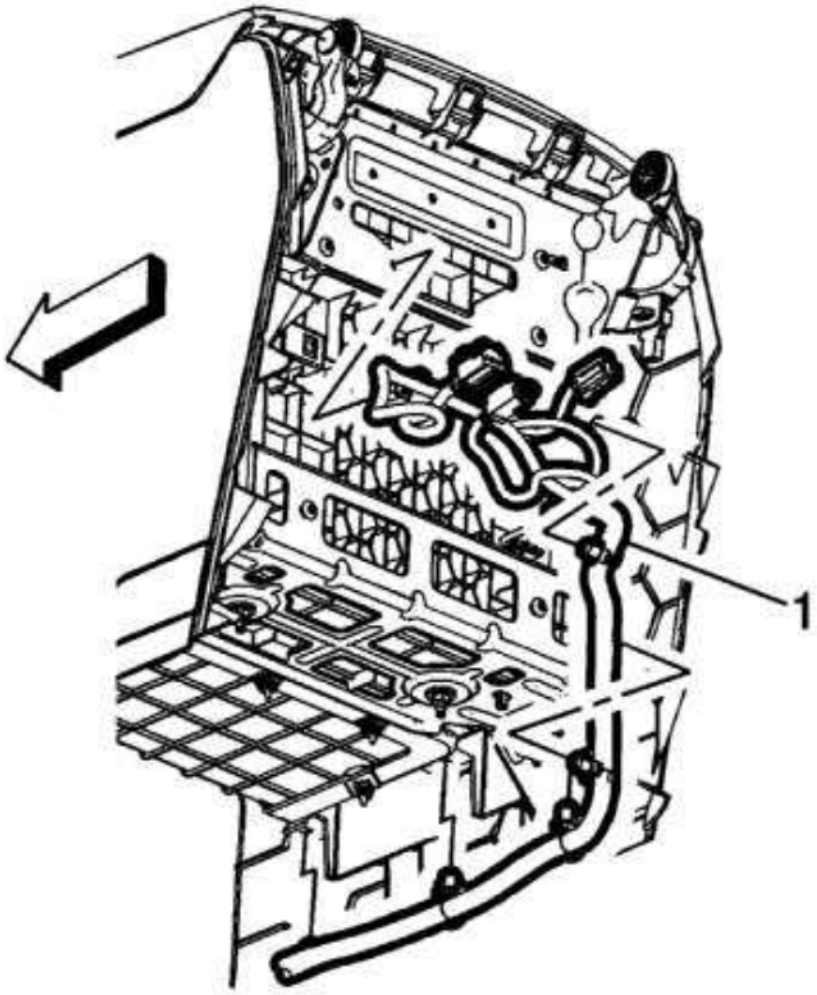


Fig. 108: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

3. Disconnect the harness retainers (1) securing the wiring harness to the front floor console assembly.

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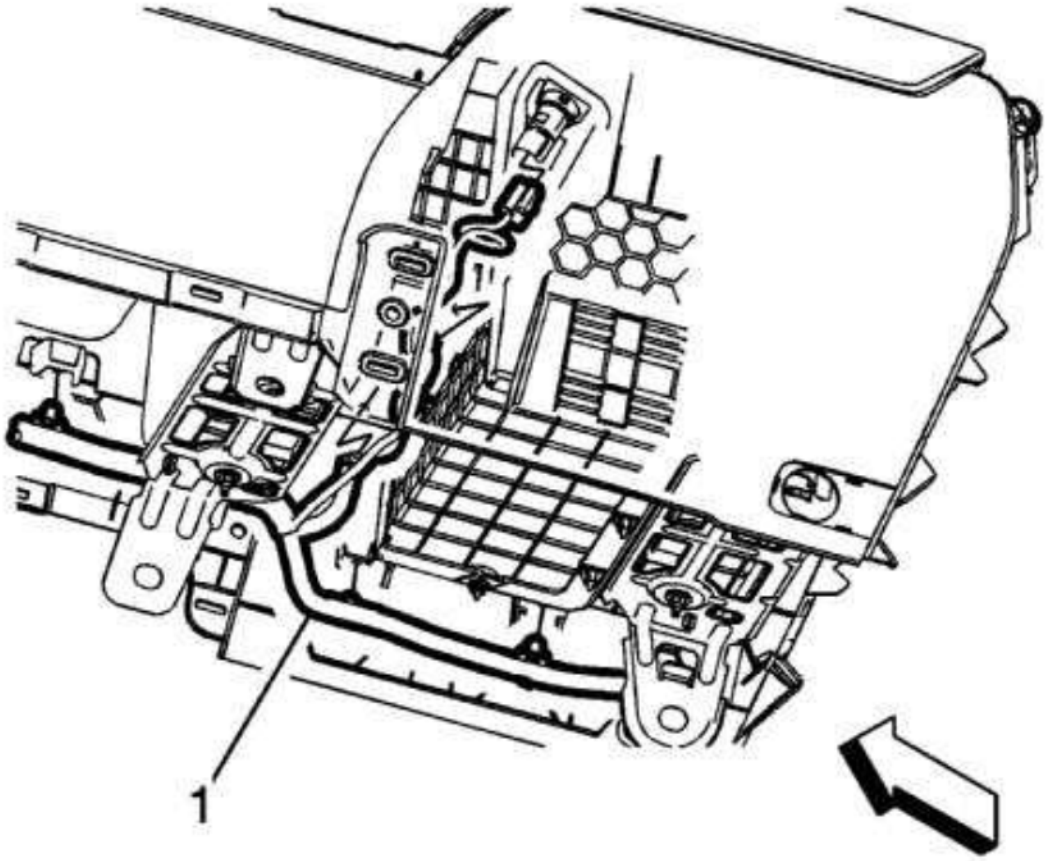


Fig. 109: Harness Retainers And Connectors
Courtesy of GENERAL MOTORS COMPANY

4. Disconnect the harness retainers and connectors (1) securing the wiring harness to the front floor console assembly.

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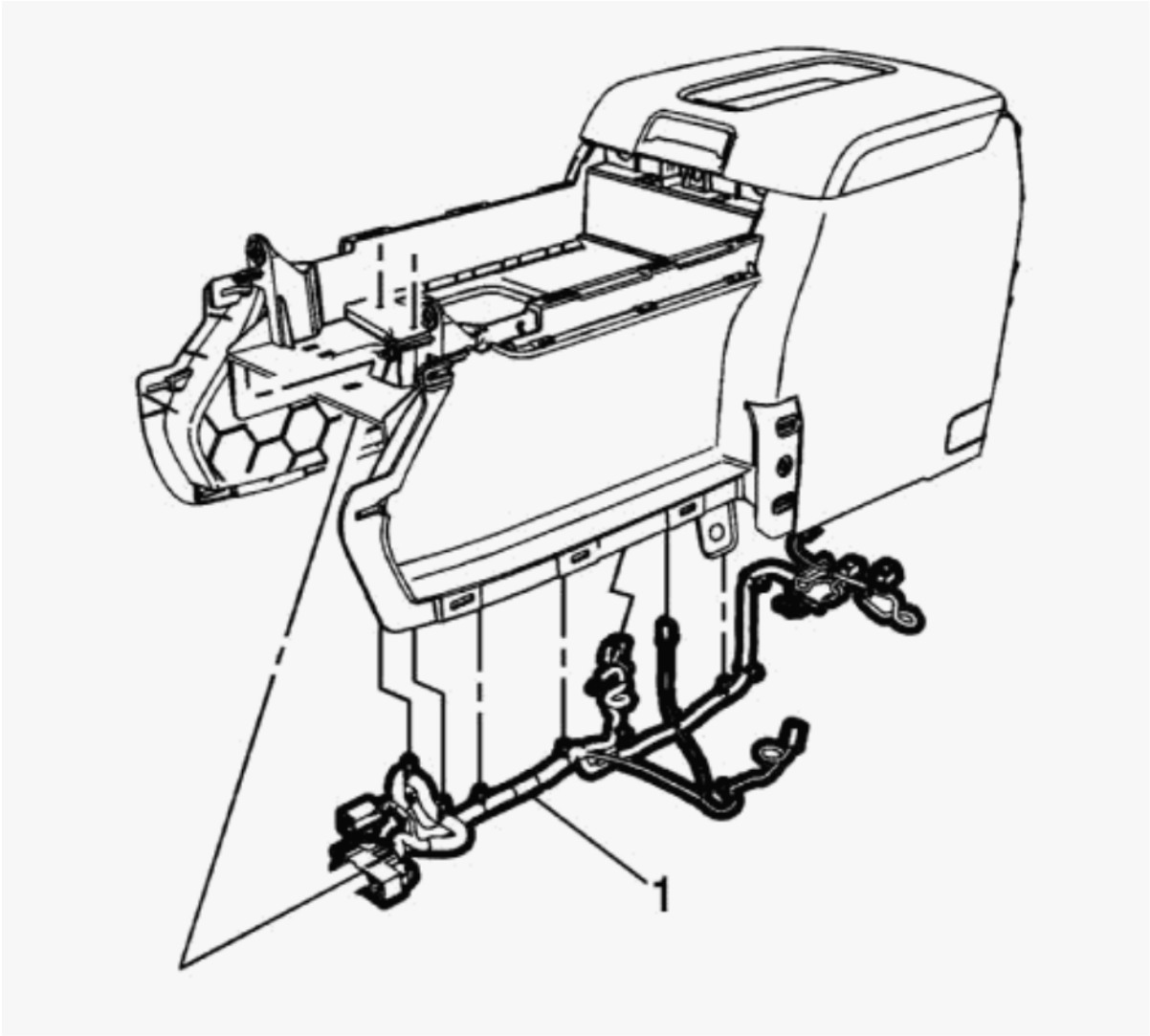


Fig. 110: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

5. Disconnect the harness retainers (1) securing the wiring harness to the front floor console assembly.

Installation Procedure

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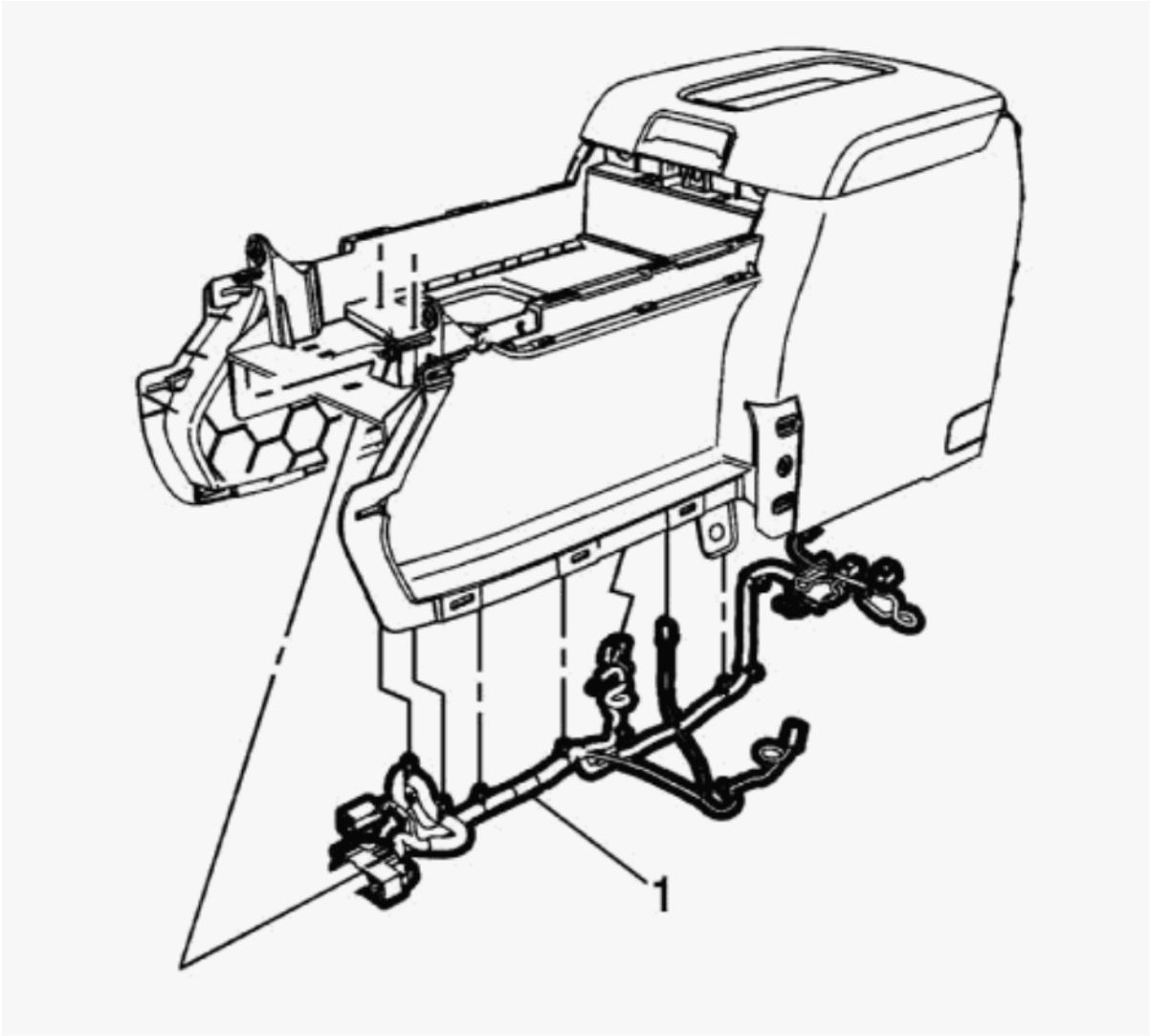


Fig. 111: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

1. Connect the harness retainers (1) securing the wiring harness to the front floor console assembly.

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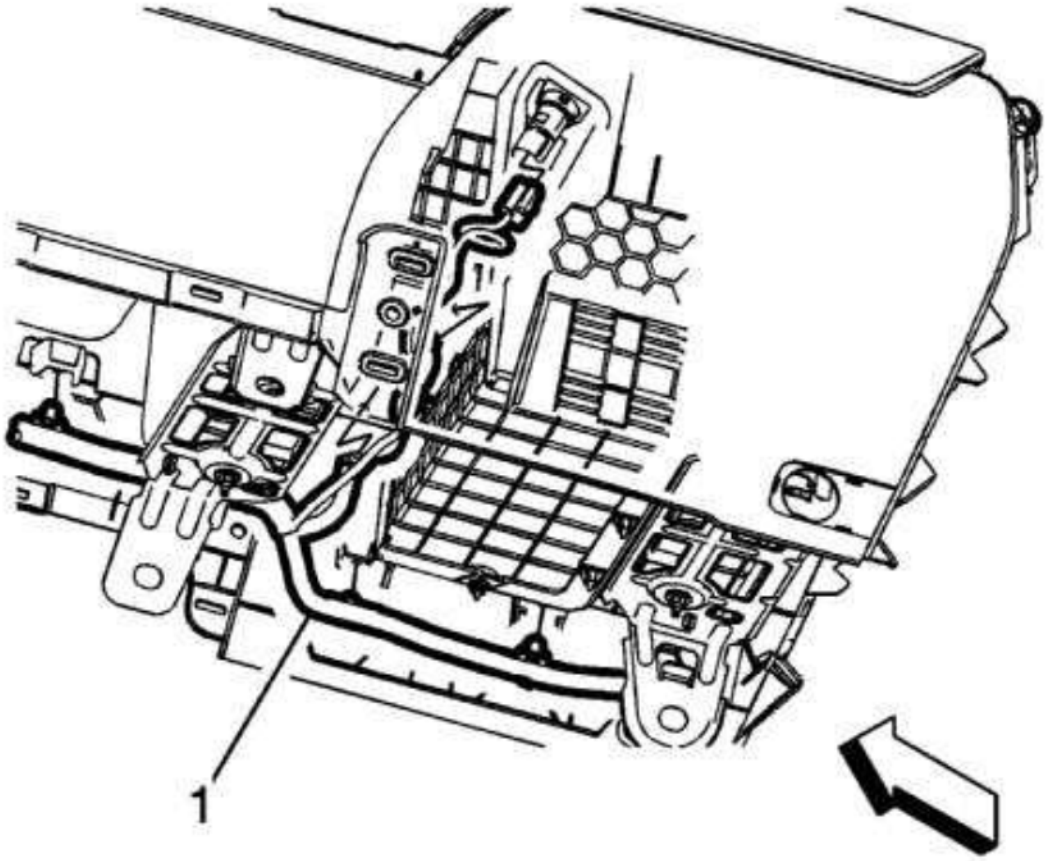


Fig. 112: Harness Retainers And Connectors
Courtesy of GENERAL MOTORS COMPANY

2. Connect the harness retainers and connectors (1) securing the wiring harness to the front floor console assembly.

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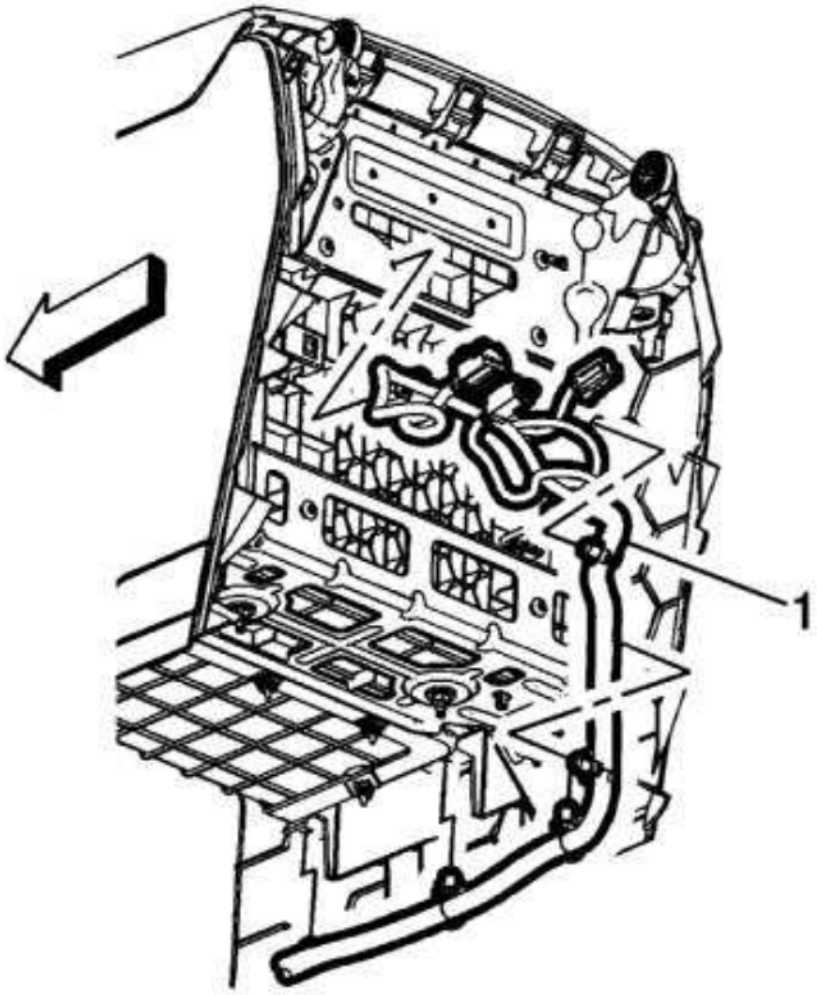


Fig. 113: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

3. Connect the harness retainers (1) securing the wiring harness to the front floor console assembly.
4. Install the front floor console rear trim panel. Refer to **Front Floor Console Rear Trim Panel Replacement**.
5. Install the front floor console assembly. Refer to **Front Floor Console Assembly Replacement (without HP5)Front Floor Console Assembly Replacement (with HP5)**.

FRONT FLOOR CONSOLE GRILLE REPLACEMENT

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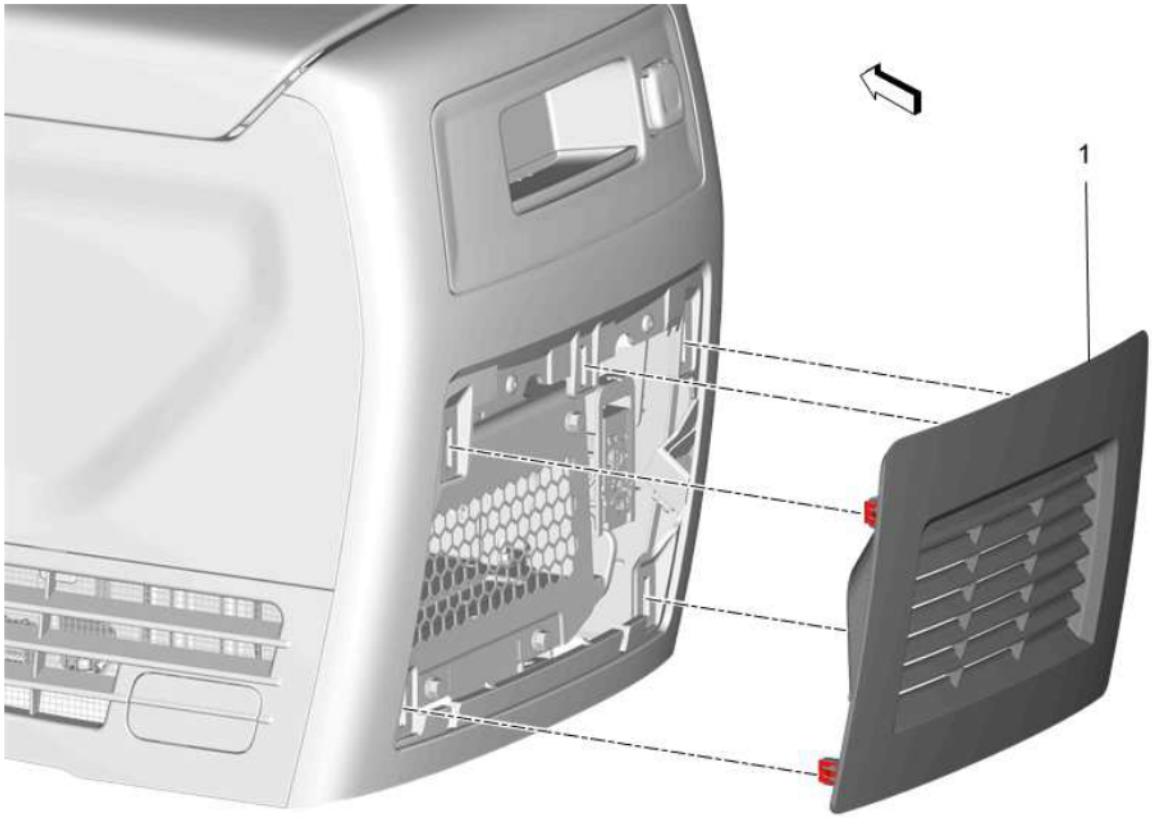


Fig. 114: Front Floor Console Grille
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Grille **Procedure** Use a flat bladed plastic trim tool.

FRONT FLOOR CONSOLE RAIL REPLACEMENT

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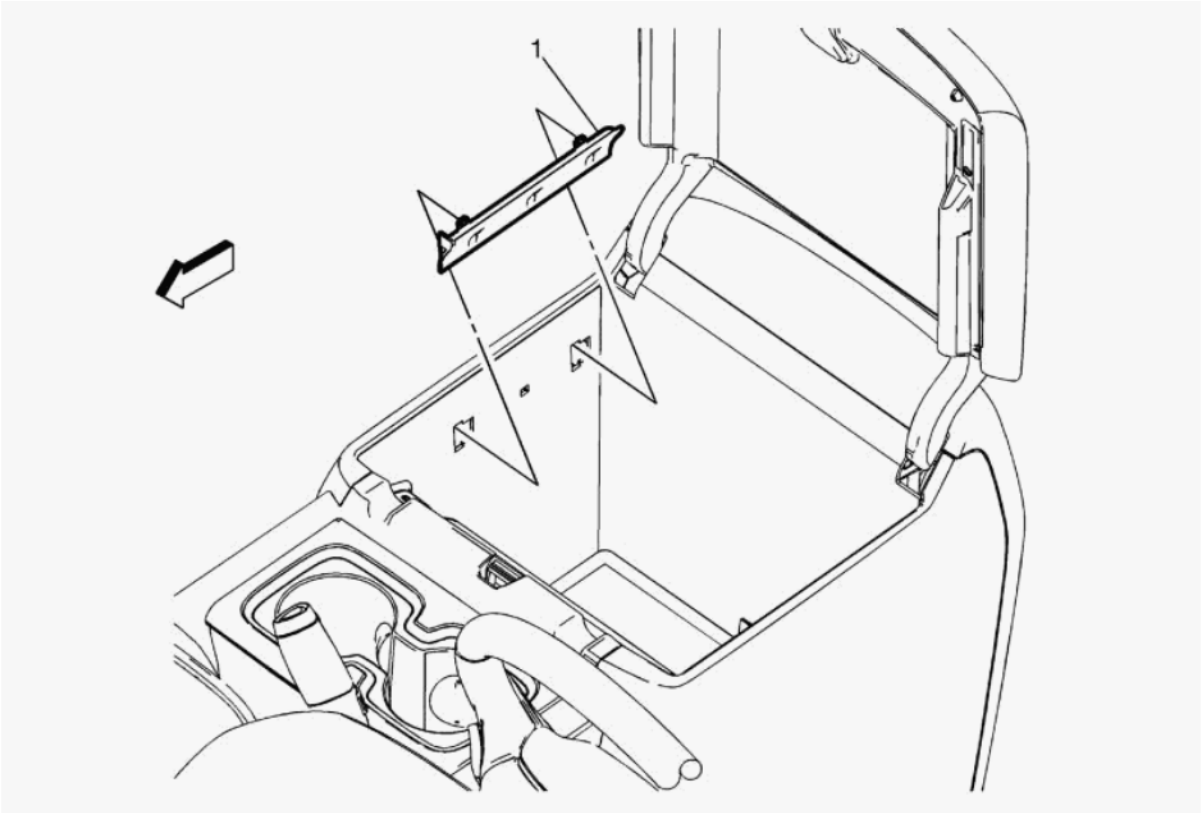


Fig. 115: Front Floor Console Rail
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Rail **Procedure** Move the rail forward to release the tabs.

FRONT FLOOR CONSOLE FRONT COMPARTMENT COVER REPLACEMENT

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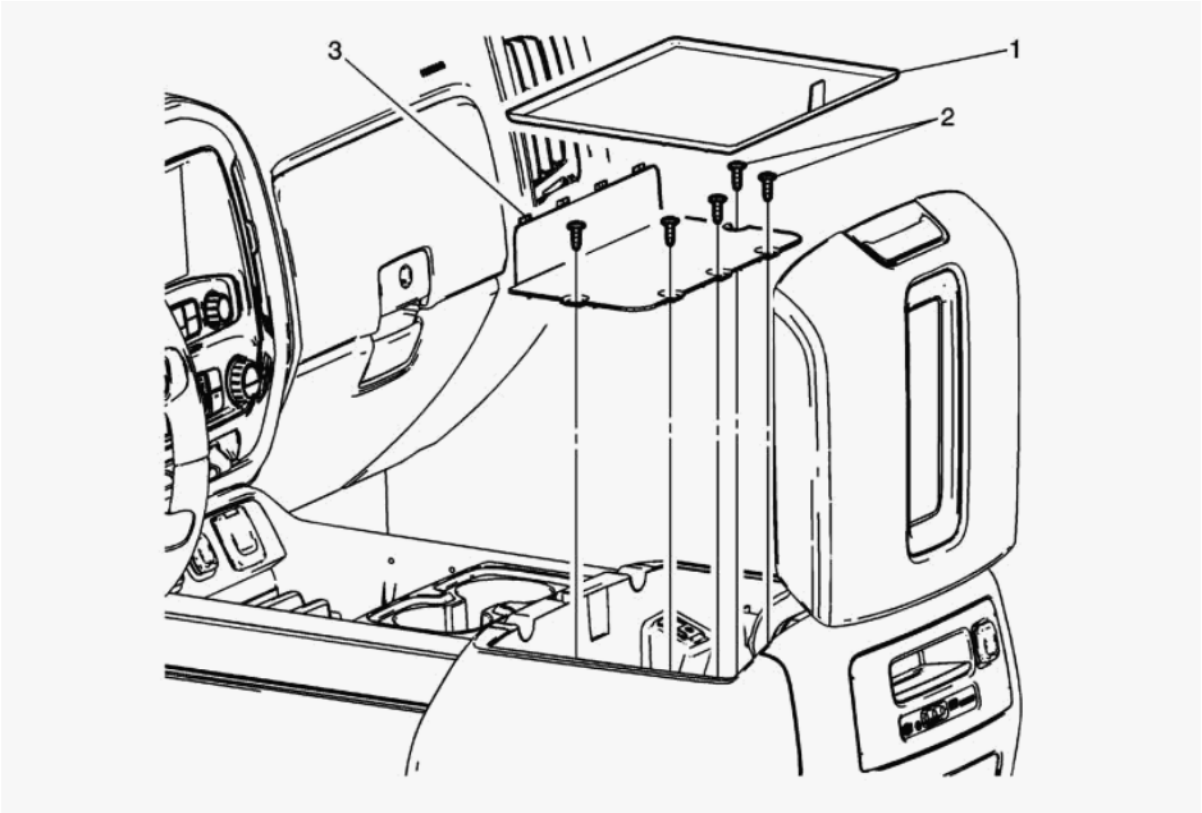


Fig. 116: Front Floor Console Front Compartment Cover
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console stowage tray. Refer to **Front Floor Console Stowage Tray Replacement**.	
1	Front Floor Console Compartment Liner
2	Front Floor Console Front Compartment Cover Bolt (Qty: 5) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
3	Front Floor Console Front Compartment Cover **Procedure** Lift the cover from the rearward side to clear the tabs.

FRONT FLOOR CONSOLE STOWAGE TRAY REPLACEMENT

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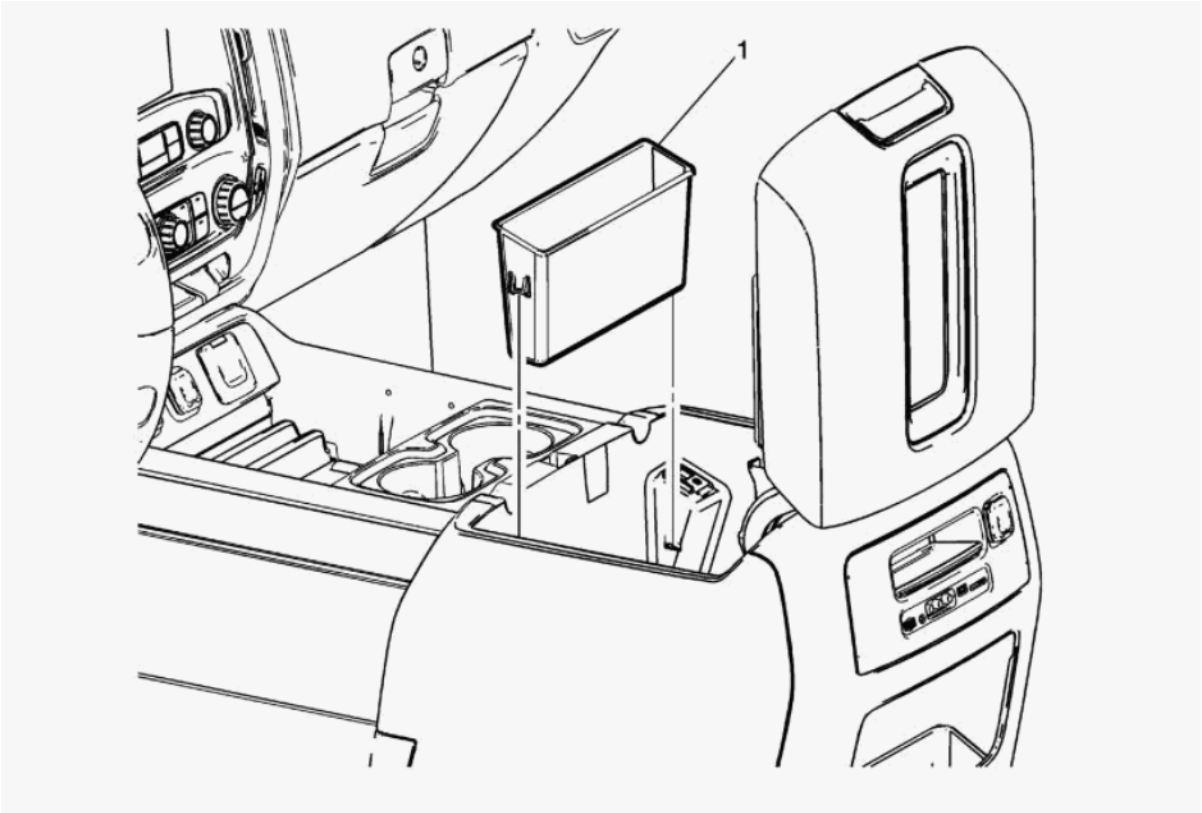


Fig. 117: Front Floor Console Stowage Tray
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Stowage Tray **Procedure** Use a flat bladed plastic trim tool in order to release the tabs securing the tray to the front floor console assembly.

FRONT FLOOR CONSOLE COMPARTMENT TRIM PLATE REPLACEMENT

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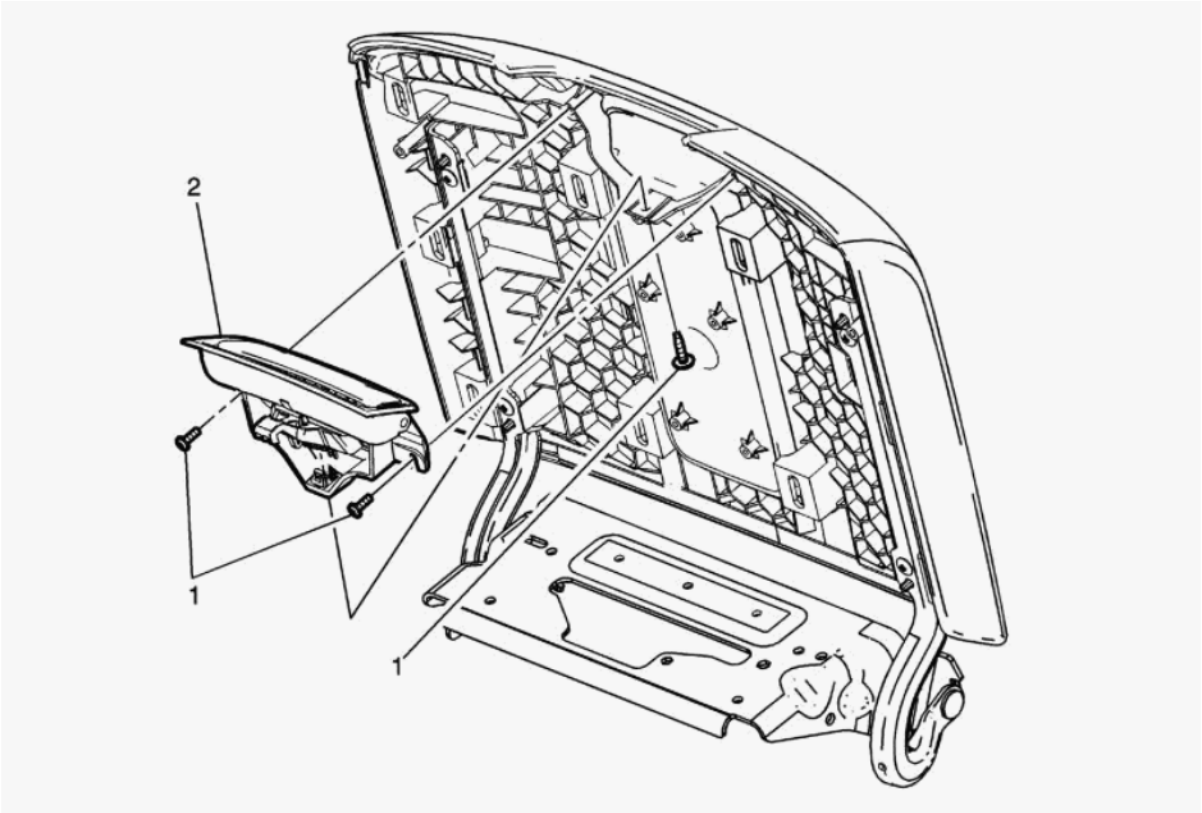


Fig. 118: Front Floor Console Compartment Trim Plate
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console armrest hinge cover. Refer to **Front Floor Console Armrest Hinge Cover Replacement**.	
1	Front Floor Console Bolt (Qty: 3) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Front Floor Console Compartment Trim Plate

FRONT FLOOR CONSOLE REAR STOWAGE LINER REPLACEMENT

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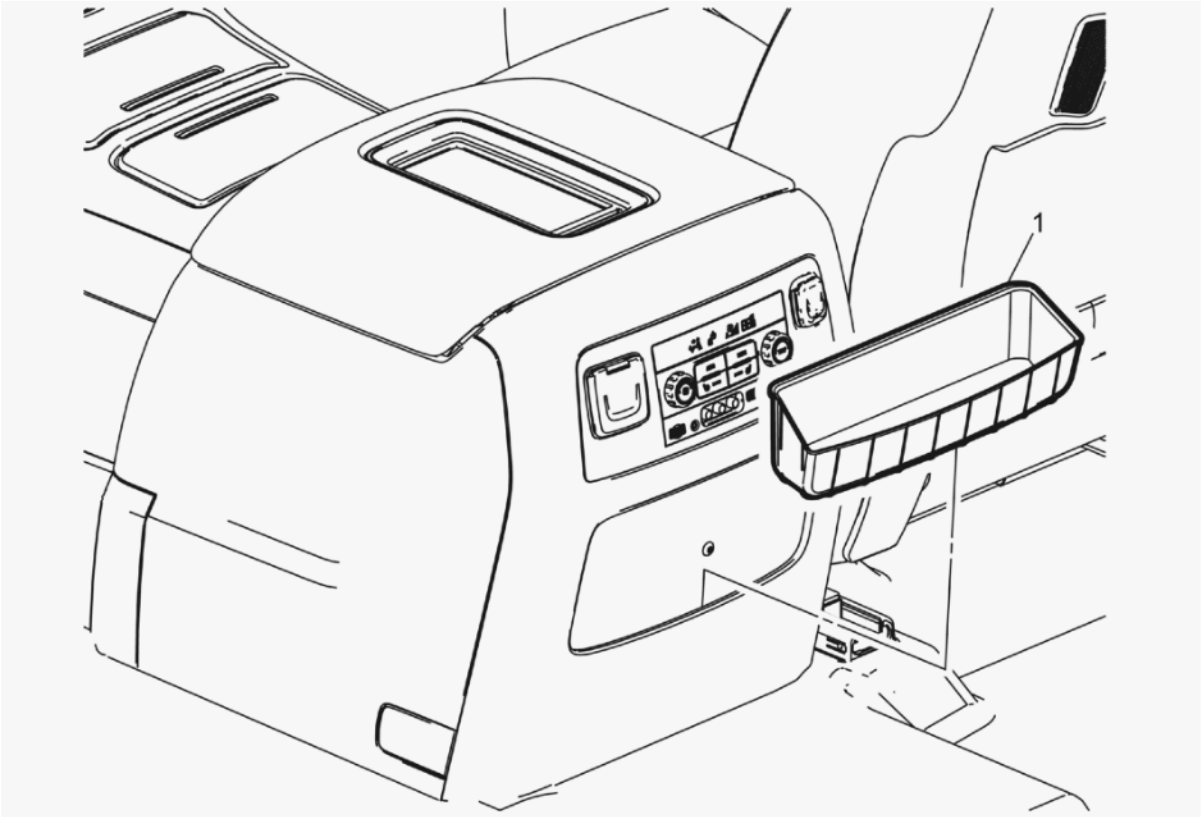


Fig. 119: Front Floor Console Rear Stowage Liner
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Rear Stowage Liner **Procedure** Use a suitable tool to remove the liner from the rear trim panel.

FRONT FLOOR CONSOLE ACCESSORY TRIM PLATE REPLACEMENT

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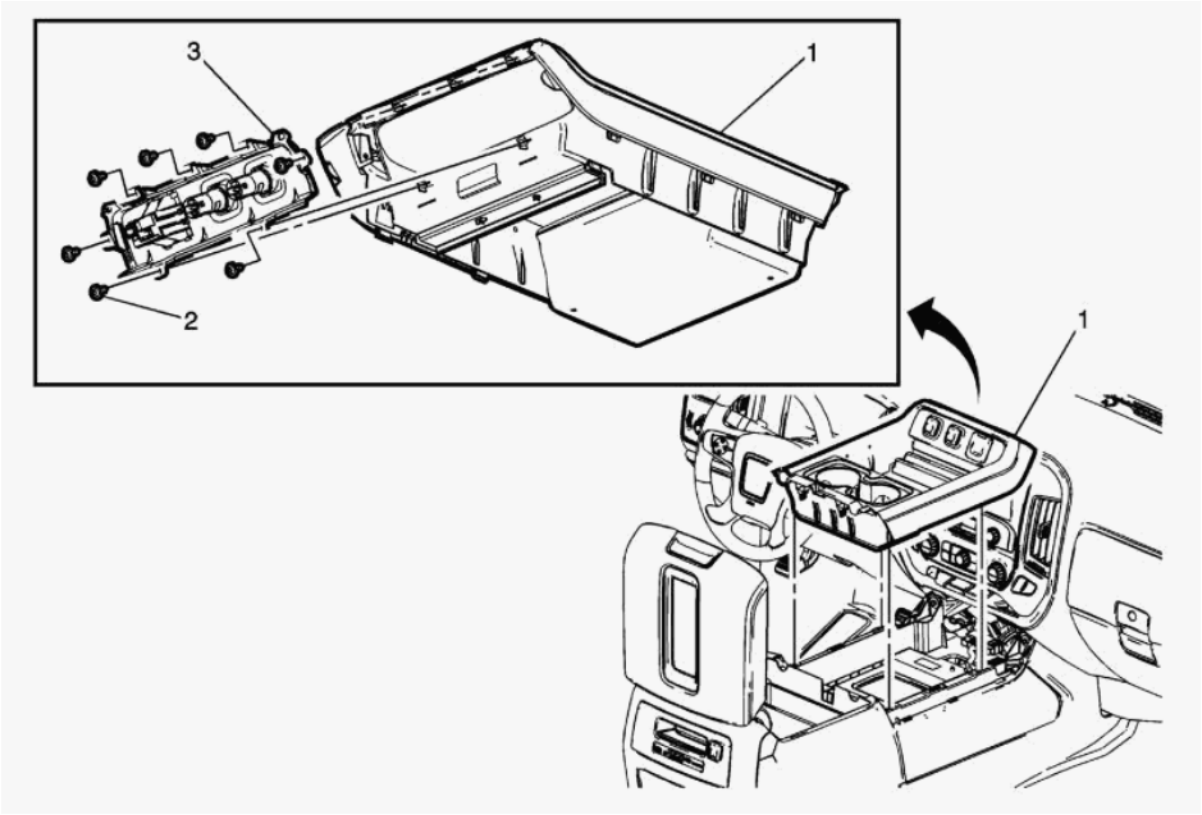


Fig. 120: Front Floor Console Accessory Trim Plate
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Trim Plate Refer to **Front Floor Console Trim Plate Replacement**
2	Front Floor Console Accessory Trim Plate Bolt (Qty: 7) **CAUTION:** **Refer to** **Fastener** **Caution** . **Tighten** 2.5 N.m (22 lb in)
3	Front Floor Console Accessory Trim Plate **Procedure** Transfer components as necessary.

FRONT FLOOR CONSOLE REAR TRIM PANEL REPLACEMENT

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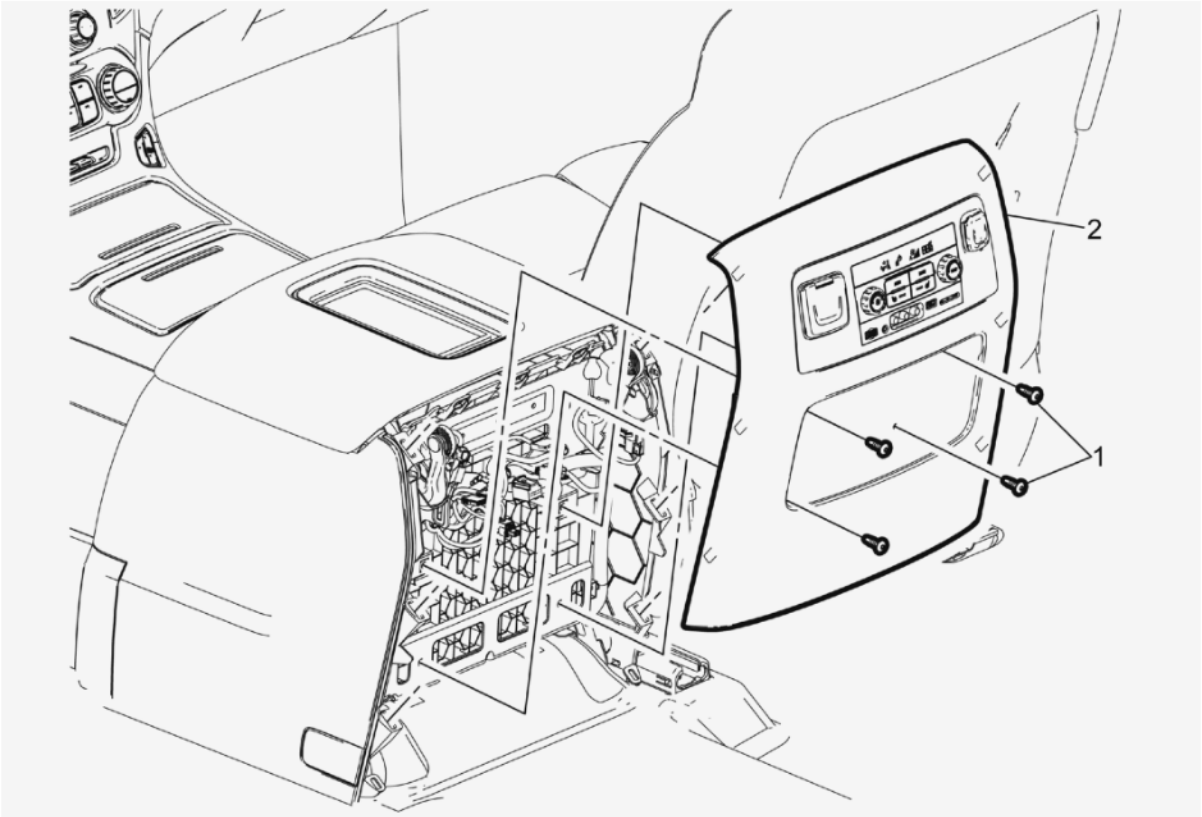


Fig. 121: Front Floor Console Rear Trim Panel
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console rear stowage liner. Refer to **Front Floor Console Rear Stowage Liner Replacement**.	
1	Front Floor Console Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Front Floor Console Rear Trim Panel **Procedure** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim panel to the front floor console assembly. 2. Release the lower portion first, then lift up and release the top portion. 3. Disconnect the electrical connection. 4. When replacing the trim panel, transfer all necessary components.

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FRONT FLOOR CONSOLE CUP HOLDER OPENING TRIM PLATE REPLACEMENT

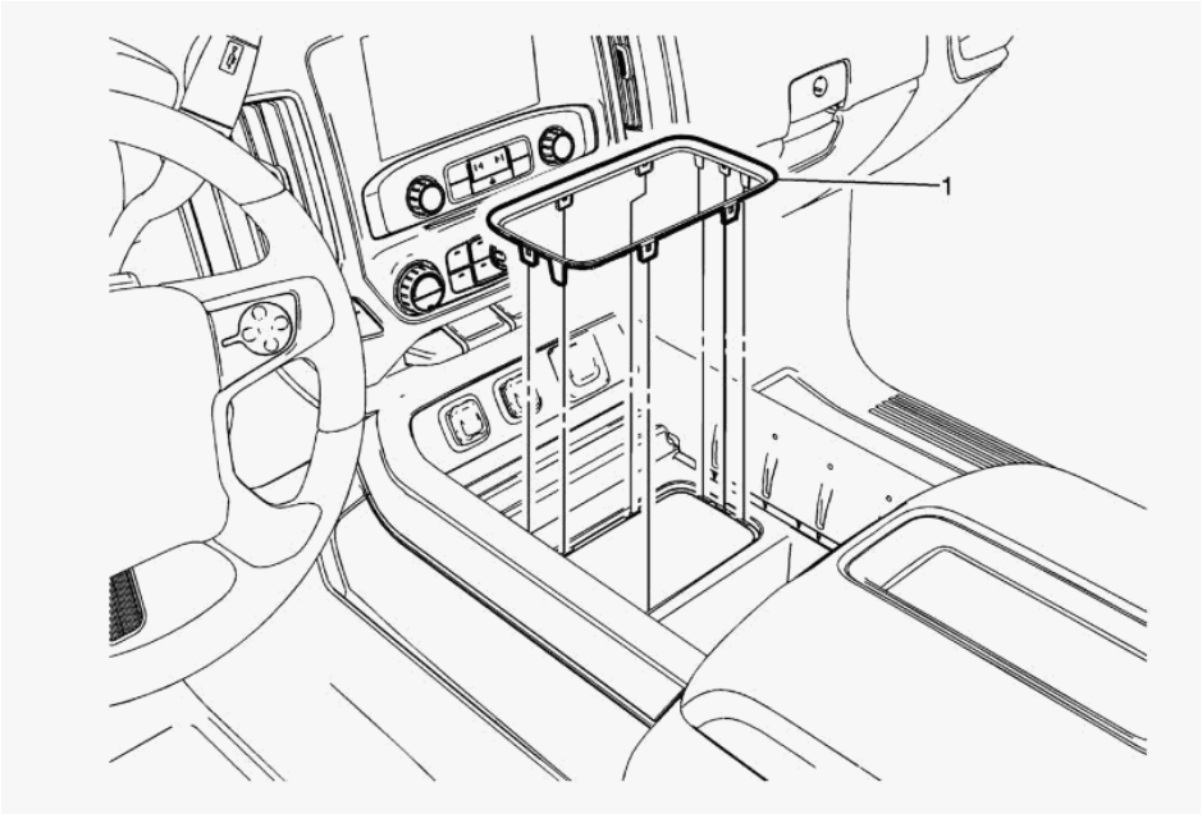


Fig. 122: Front Floor Console Cup Holder Opening Trim Plate
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Cup Holder Opening Trim Plate **Procedure** Use a flat bladed plastic trim tool in order to release the tabs securing the trim plate to the front floor console assembly.

FRONT FLOOR CONSOLE EXTENSION PANEL REPLACEMENT - RIGHT SIDE

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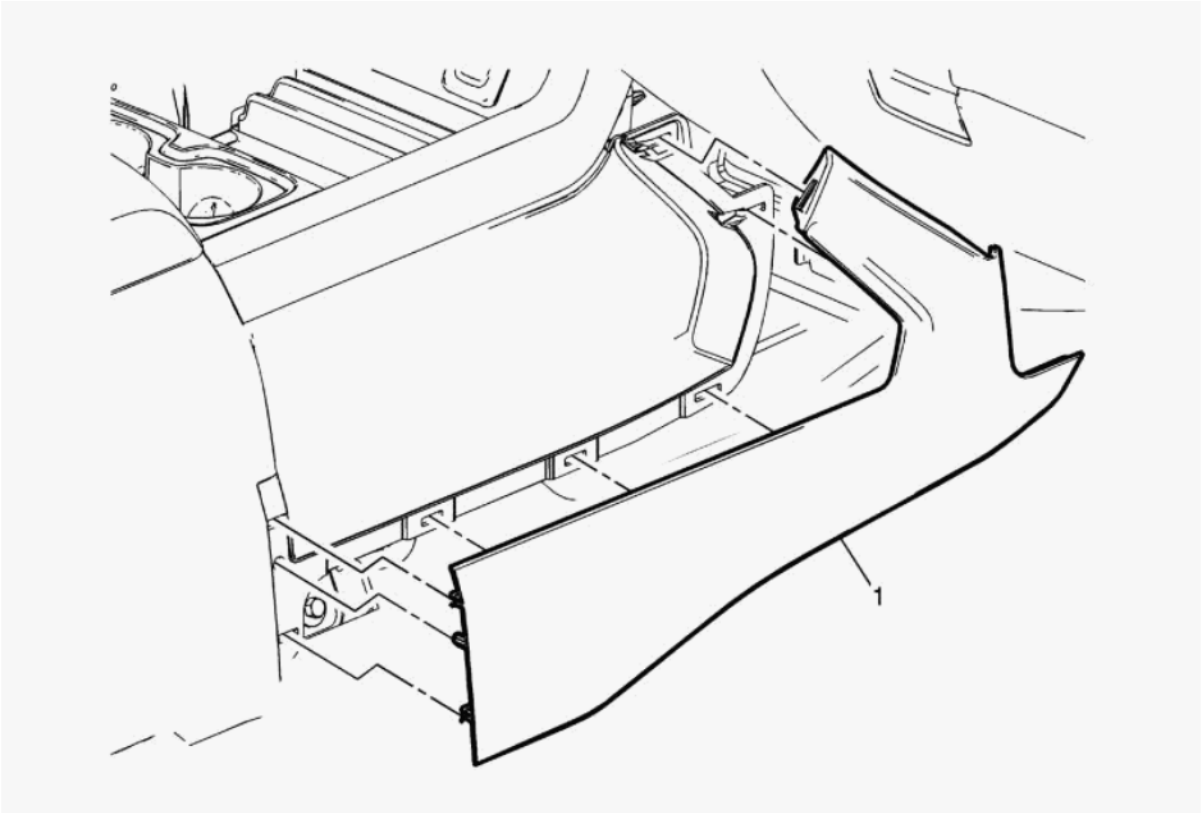


Fig. 123: Front Floor Console Extension Panel - Right Side
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Extension Panel - Right Side **Procedures** 1. Move the front seat rearward to access the retainers at the rear of the panel 2. Use a flat bladed plastic trim tool in order to release the retainer clips securing the panel to the front floor console assembly.

FRONT FLOOR CONSOLE EXTENSION PANEL REPLACEMENT - LEFT SIDE

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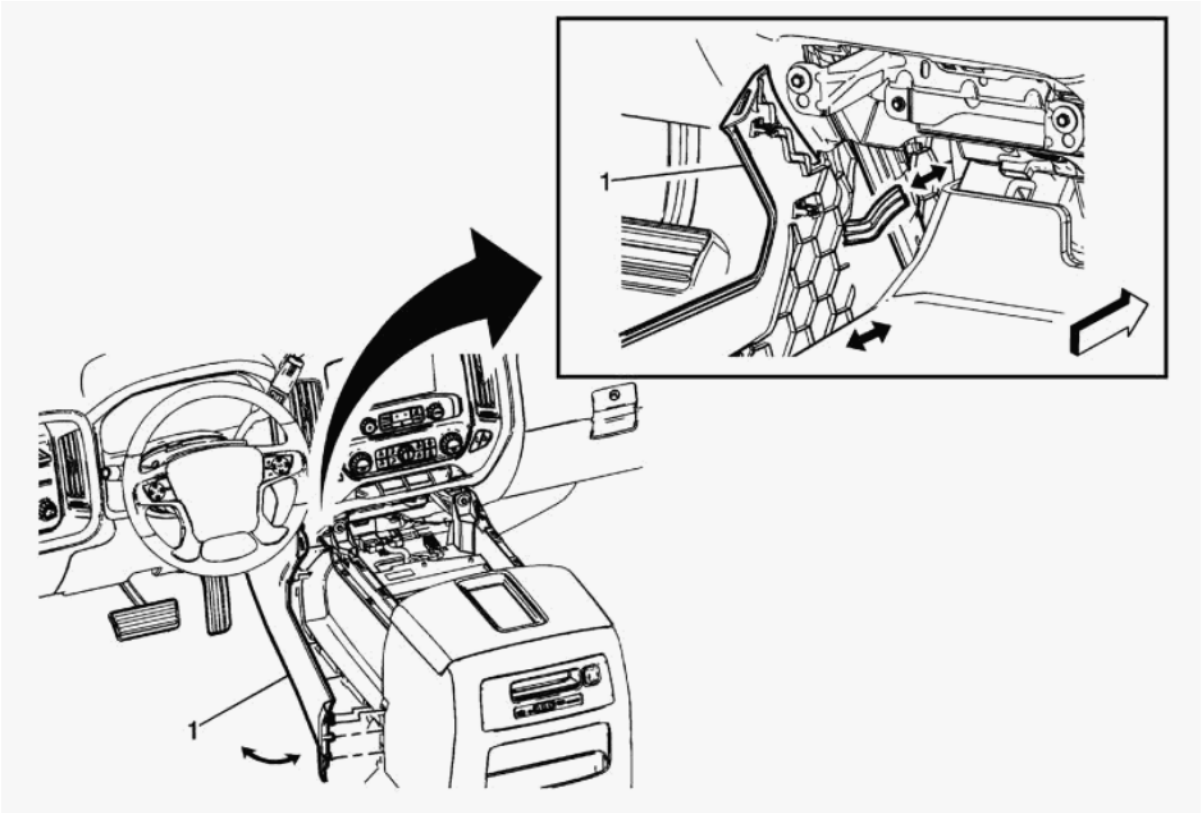


Fig. 124: Front Floor Console Extension Panel - Left Side
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the driver seat. Refer to **Driver or Passenger Seat Removal and Installation** .	
1	Front Floor Console Extension Panel - Left **Procedure** 1. Starting from the rear, use a flat bladed plastic trim tool to aid in the removal of the panel from the front floor console assembly. 2. Pull the panel rearward to release the integral hook from the brace assembly. 3. When installing the extension panel, secure the integral hook to the brace first then secure the retainers. 4. Pull on front bottom of panel to insure the hook is engaged. **NOTE:** **Ensure proper engagement of the integral hook on the front floor console extension**

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Callout	Component Name
	left side panel. If integral hook is not completely engaged, the front floor console extension left side panel could interfere with the accelerator pedal.

FRONT FLOOR CONSOLE ASSEMBLY REPLACEMENT (WITHOUT HP5)

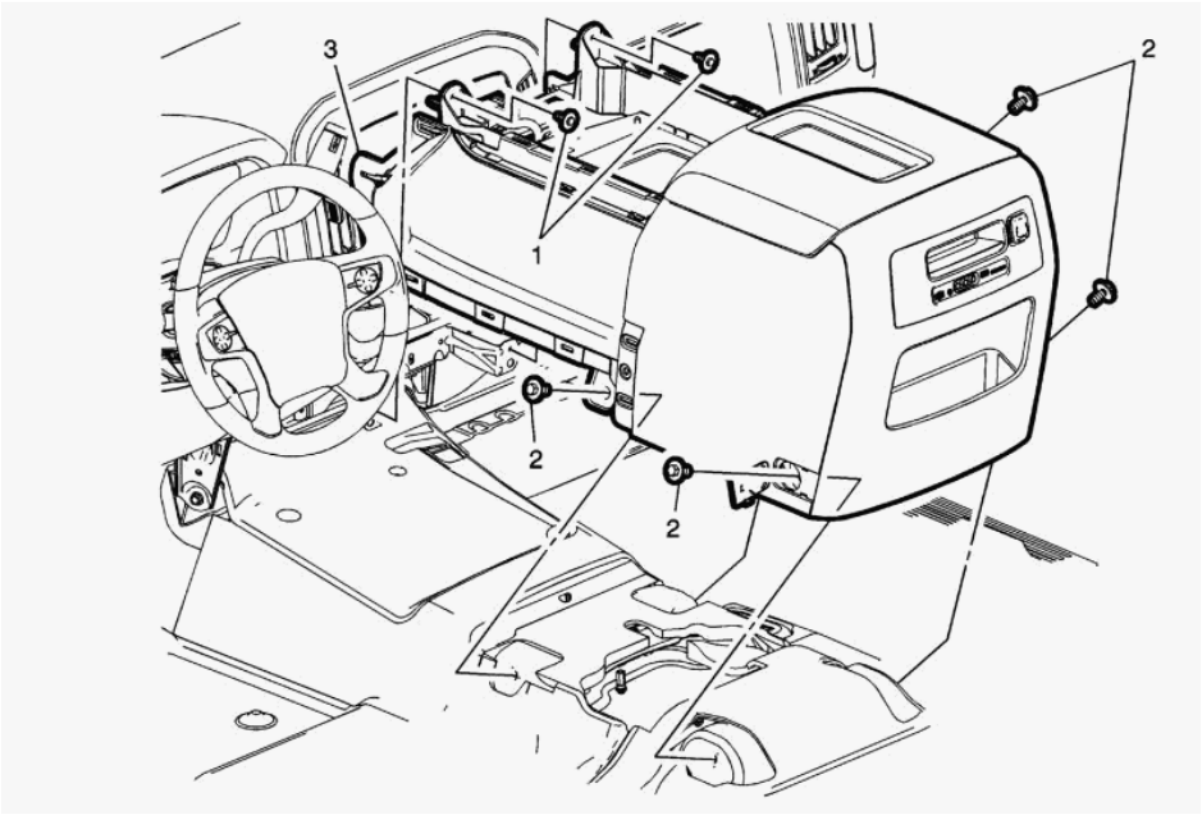


Fig. 125: Front Floor Console (without HP5)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the front floor console trim plate. Refer to **Front Floor Console Trim Plate Replacement**.	

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Callout	Component Name
2. Remove the left front floor console extension panel. Refer to **Front Floor Console Extension Panel Replacement - Left Side**. 3. Remove the right front floor console extension panel. Refer to **Front Floor Console Extension Panel Replacement - Right Side**.	
1	Front Floor Console Bracket Bolt (Qty: 2) **CAUTION:** **Refer to Fastener Caution .**
2	Front Floor Console Bolt to Floor Tunnel (Qty: 4) **Procedure** Pull back the carpet and insulator to access the fasteners from the floor console. **Tighten** 45 N.m (33 lb ft)
3	Front Floor Console **Procedure** 1. Disconnect electrical connections. 2. With the aid of an assistant lift the floor console rearward and upward away from the instrument panel assembly. 3. Transfer all necessary components.

FRONT FLOOR CONSOLE ASSEMBLY REPLACEMENT (WITH HP5)

Removal Procedure

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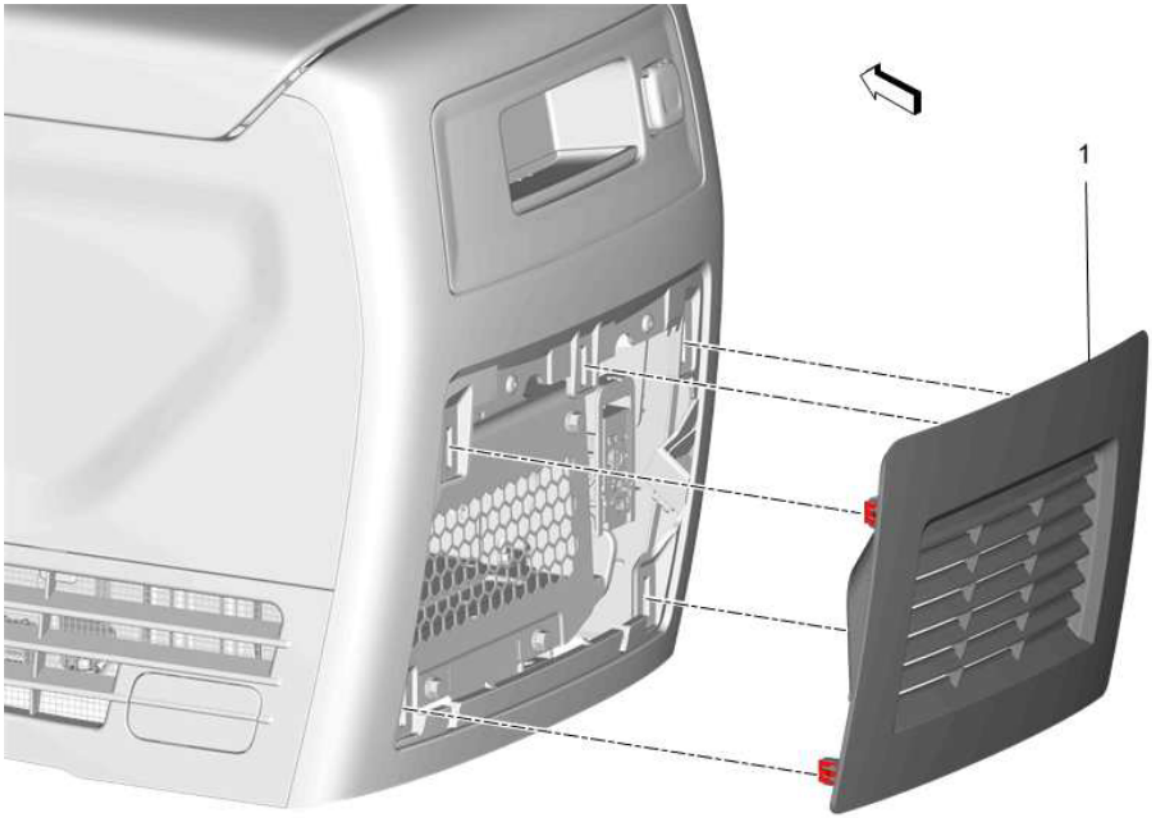
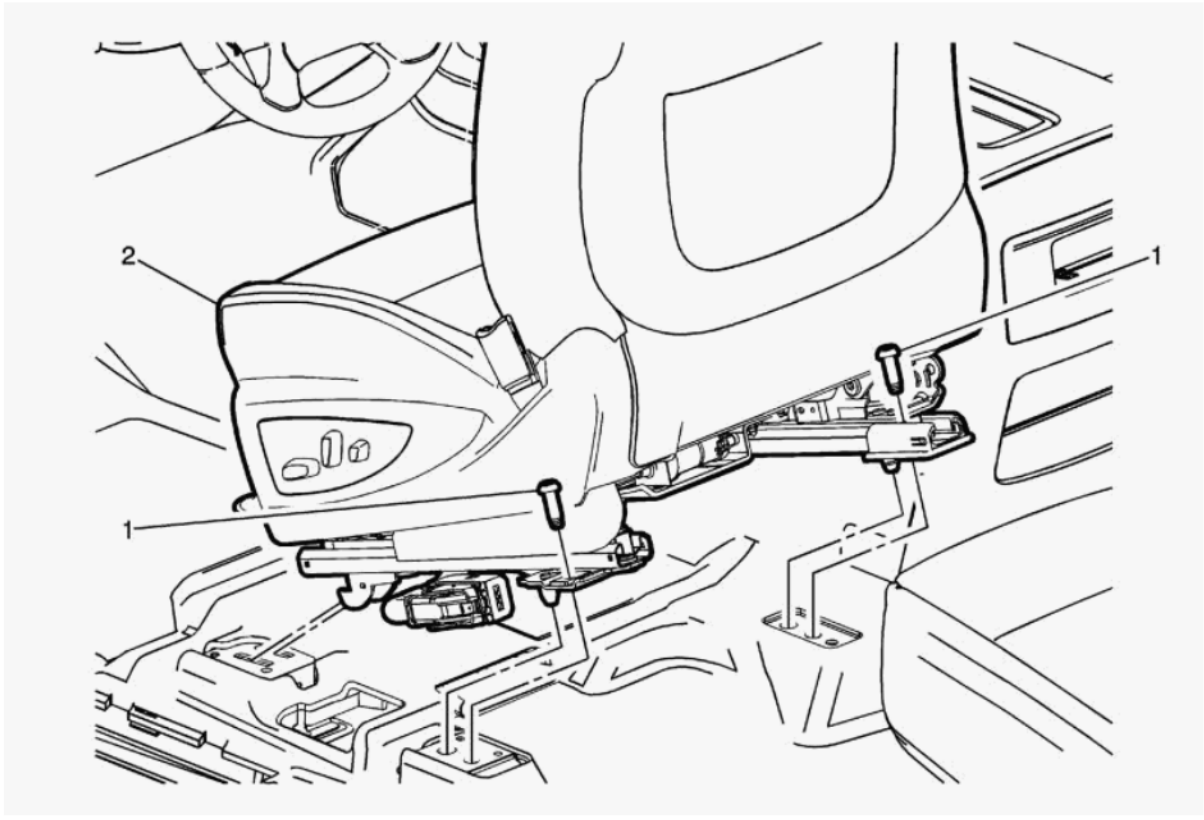


Fig. 126: Front Floor Console Grille
Courtesy of GENERAL MOTORS COMPANY

1. Front Floor Console Grille 1 - Remove - **Front Floor Console Grille Replacement**
2. Disable the high voltage system. **High Voltage Disabling**



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Fig. 127: Driver or Passenger Seat
Courtesy of GENERAL MOTORS COMPANY

3. Driver or Passenger Seat 2 - Remove - **Driver or Passenger Seat Removal and Installation**

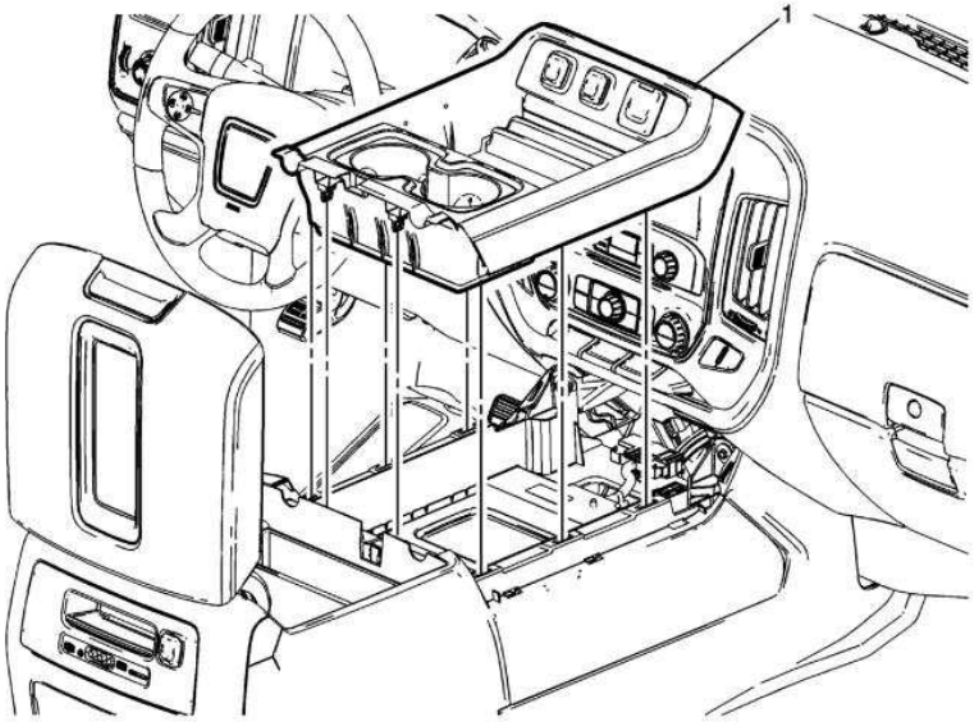


Fig. 128: Front Floor Console Trim Plate
Courtesy of GENERAL MOTORS COMPANY

4. Front Floor Console Trim Plate 1 - Remove - **Front Floor Console Trim Plate Replacement**

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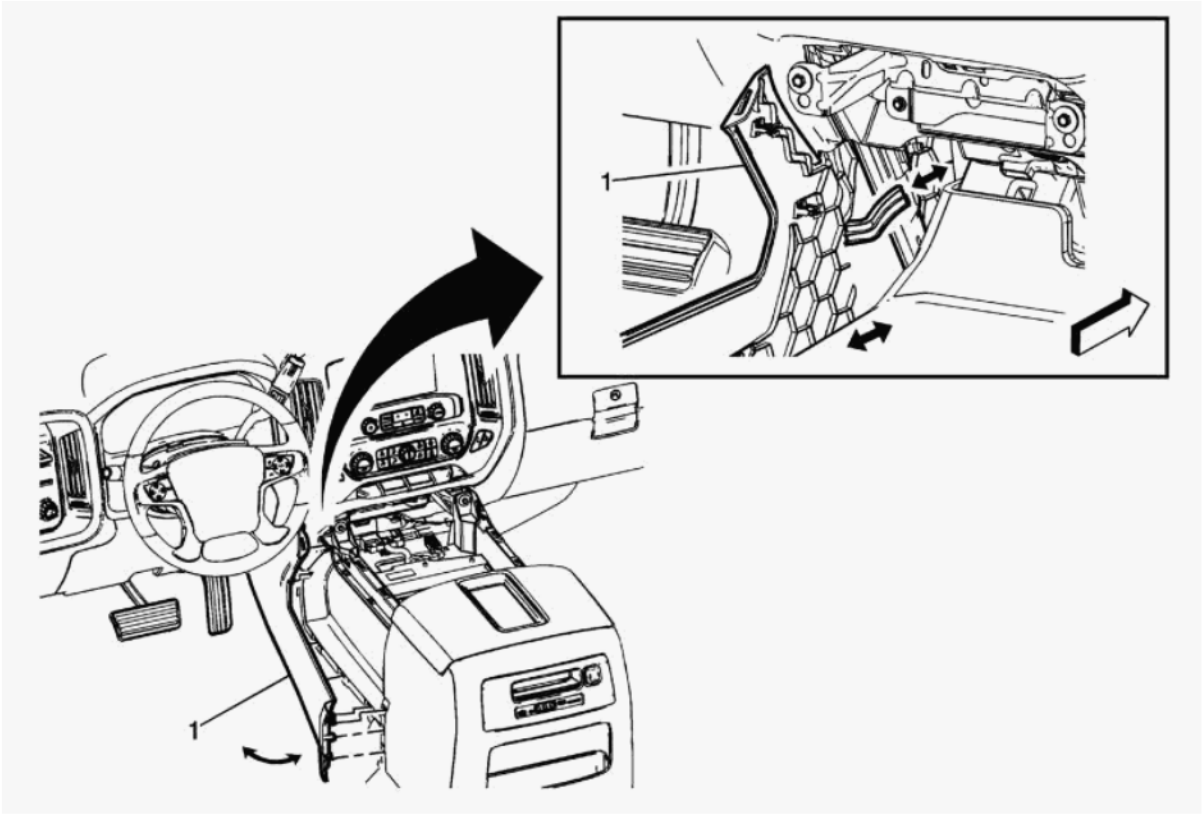
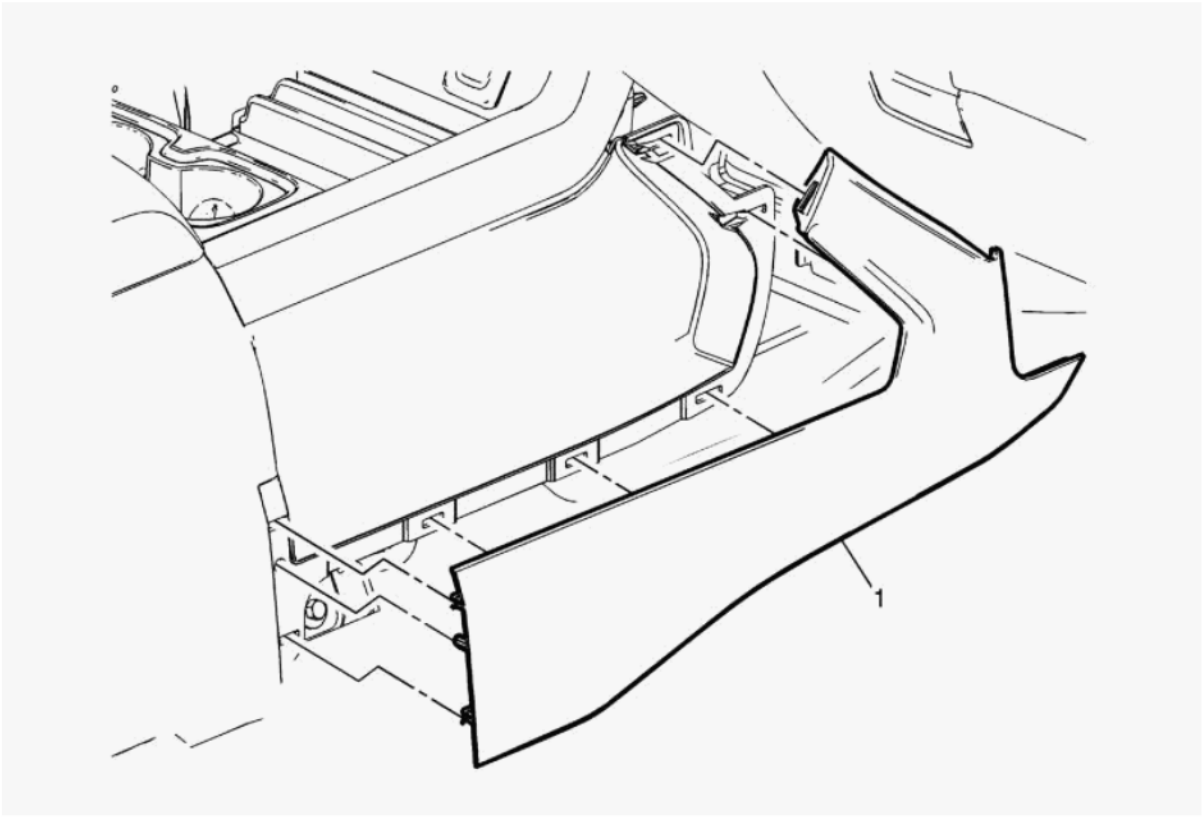


Fig. 129: Front Floor Console Extension Panel - Left Side
Courtesy of GENERAL MOTORS COMPANY

5. Front Floor Console Extension Panel - Left 1 - Remove - **Front Floor Console Extension Panel Replacement - Left Side**



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Fig. 130: Front Floor Console Extension Panel - Right Side
Courtesy of GENERAL MOTORS COMPANY

6. Front Floor Console Extension Panel - Right 1 - Remove - **Front Floor Console Extension Panel Replacement - Right Side**

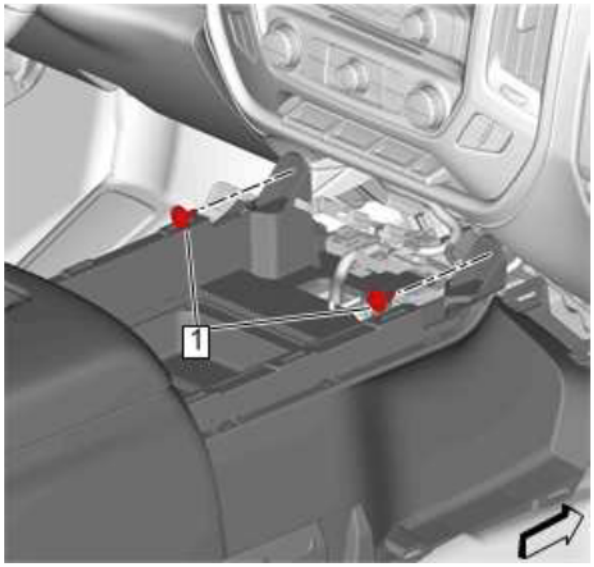


Fig. 131: Front Floor Console Bolt And Front Floor Console Bracket
Courtesy of GENERAL MOTORS COMPANY

7. Front Floor Console Bolt 1 @Front Floor Console Bracket - Remove

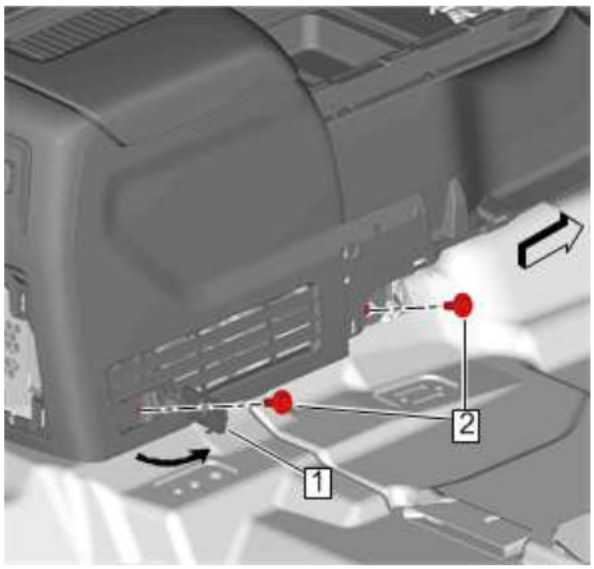


Fig. 132: Front Floor Console Bolt And Floor Tunnel
Courtesy of GENERAL MOTORS COMPANY

8. Front Floor Console Bolt Access Hole Cover 1 - Open
9. Front Floor Console Bolt 2 @Floor Tunnel - Remove

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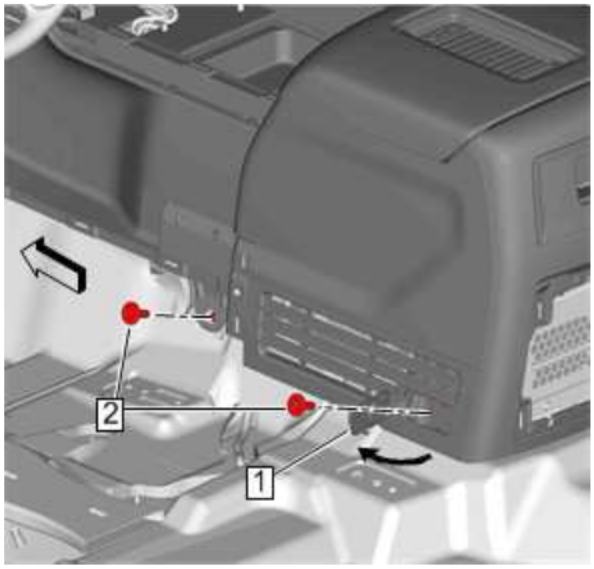


Fig. 133: Front Floor Console Bolt And Floor Tunnel
Courtesy of GENERAL MOTORS COMPANY

10. Front Floor Console Bolt Access Hole Cover 1 - Open
11. Front Floor Console Bolt 2 @Floor Tunnel - Remove

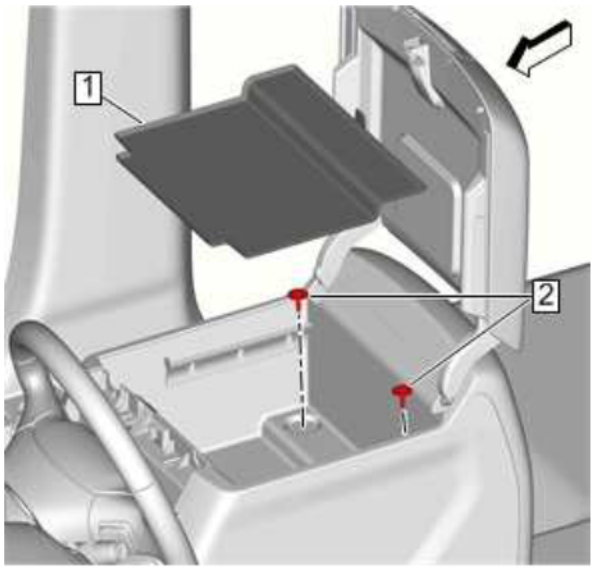


Fig. 134: Front Floor Console Bolt And Front Floor Console Bracket
Courtesy of GENERAL MOTORS COMPANY

12. Front Floor Console Compartment Liner 1 - Remove
13. Front Floor Console Bolt 2 @Front Floor Console Bracket - Remove

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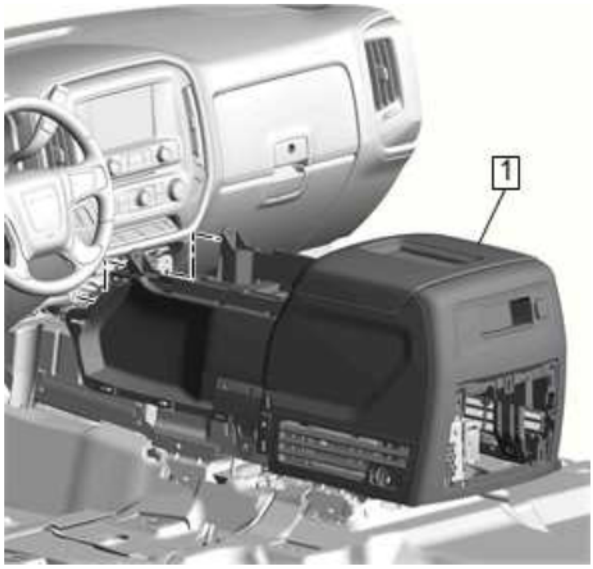


Fig. 135: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

14. Disconnect the electrical connectors.
15. With the aid of an assistant, remove the console from the vehicle. 1
16. Slide the front floor console (1) back to clear the two guide pins.
17. Transfer components as necessary.

Installation Procedure

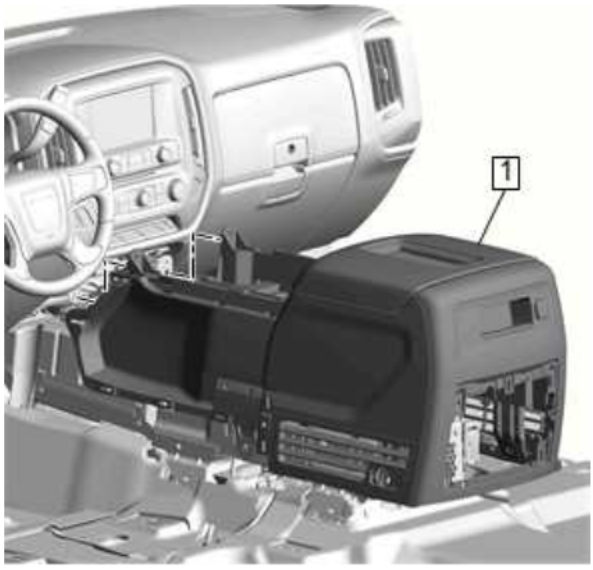


Fig. 136: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

1. With the aid of an assistant, install the console to the vehicle. 1
2. Connect the electrical connectors.
3. Carefully install the front floor console guide pins into the instrument panel.

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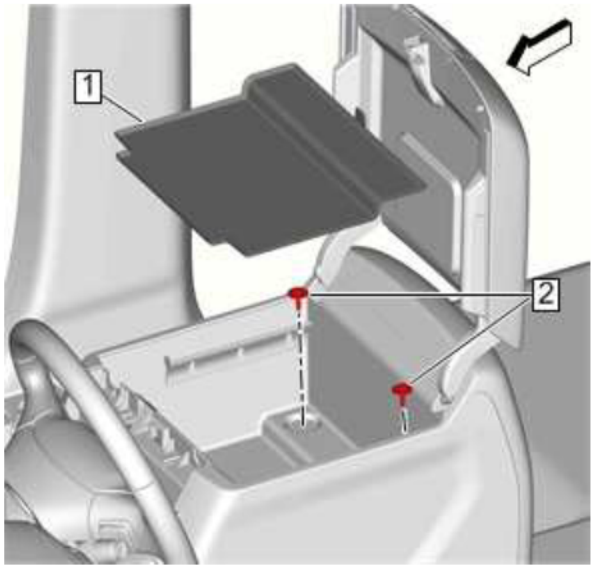


Fig. 137: Front Floor Console Bolt And Front Floor Console Bracket
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

4. Front Floor Console Bolt 2 @Front Floor Console Bracket - Install and tighten 9 N.m (80 lb in)
5. Front Floor Console Compartment Liner 1 - Install

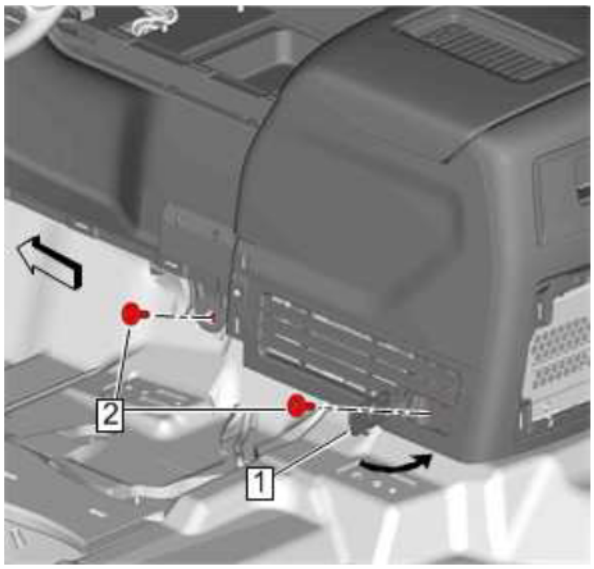


Fig. 138: Front Floor Console Bolt And Floor Tunnel
Courtesy of GENERAL MOTORS COMPANY

6. Front Floor Console Bolt 2 @Floor Tunnel - Install and tighten 45 N.m (33 lb ft)
7. Front Floor Console Bolt Access Hole Cover 1 - Close

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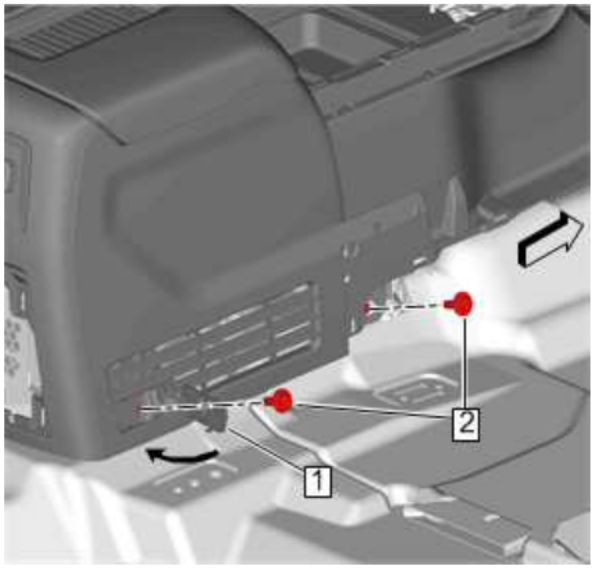


Fig. 139: Front Floor Console Bolt And Floor Tunnel
Courtesy of GENERAL MOTORS COMPANY

8. Front Floor Console Bolt 2 @Floor Tunnel - Install and tighten 45 N.m (33 lb ft)
9. Front Floor Console Bolt Access Hole Cover 1 - Close

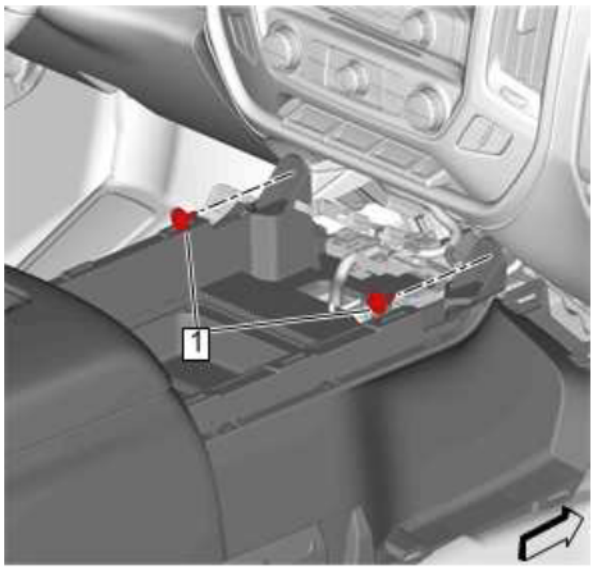


Fig. 140: Front Floor Console Bolt And Front Floor Console Bracket
Courtesy of GENERAL MOTORS COMPANY

10. Front Floor Console Bolt 1 @Front Floor Console Bracket - Install and tighten 45 N.m (33 lb in)

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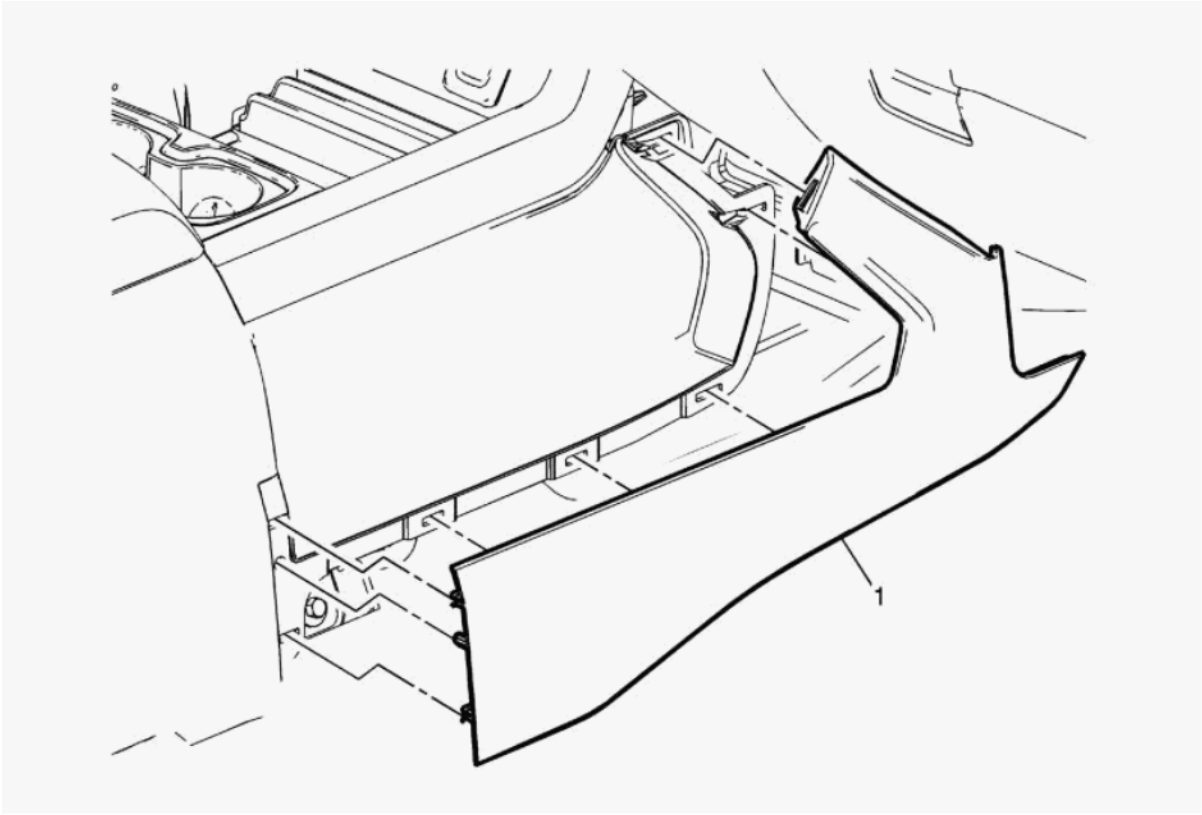
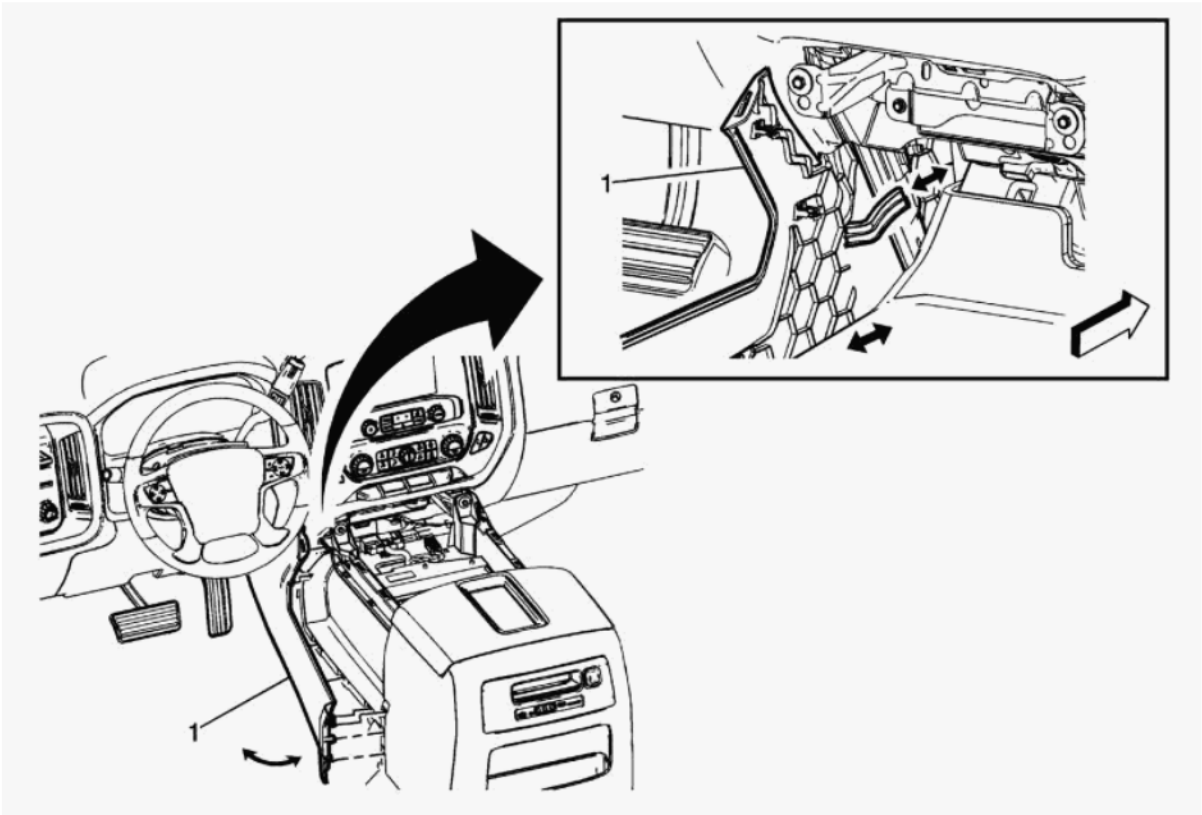


Fig. 141: Front Floor Console Extension Panel - Right Side
Courtesy of GENERAL MOTORS COMPANY

11. Front Floor Console Extension Panel - Right 1 - Install - **Front Floor Console Extension Panel Replacement - Right Side**



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Fig. 142: Front Floor Console Extension Panel - Left Side
Courtesy of GENERAL MOTORS COMPANY

12. Front Floor Console Extension Panel - Left 1 - Install - **Front Floor Console Extension Panel Replacement - Left Side**

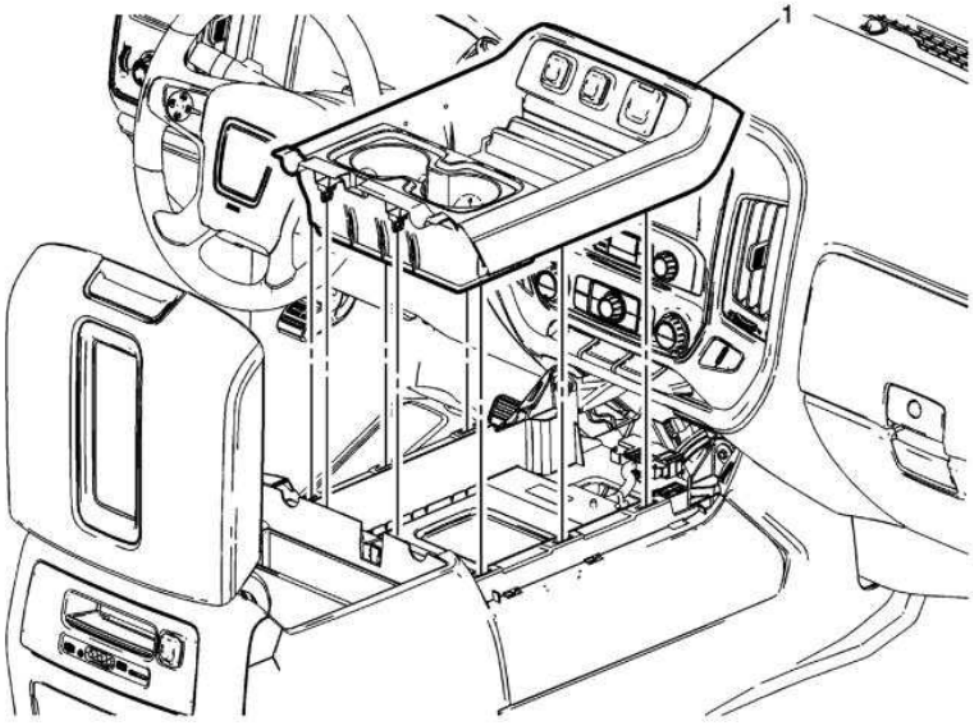


Fig. 143: Front Floor Console Trim Plate
Courtesy of GENERAL MOTORS COMPANY

13. Front Floor Console Trim Plate 1 - Install - **Front Floor Console Trim Plate Replacement**

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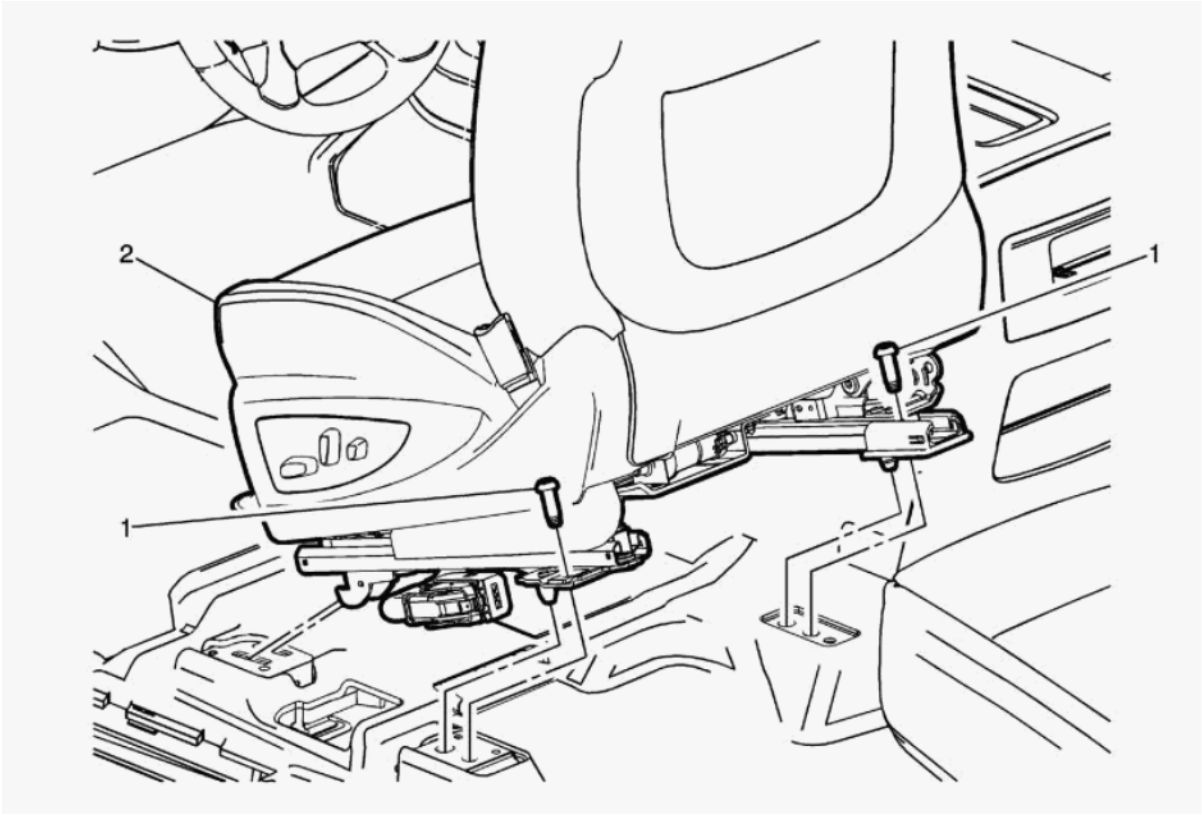
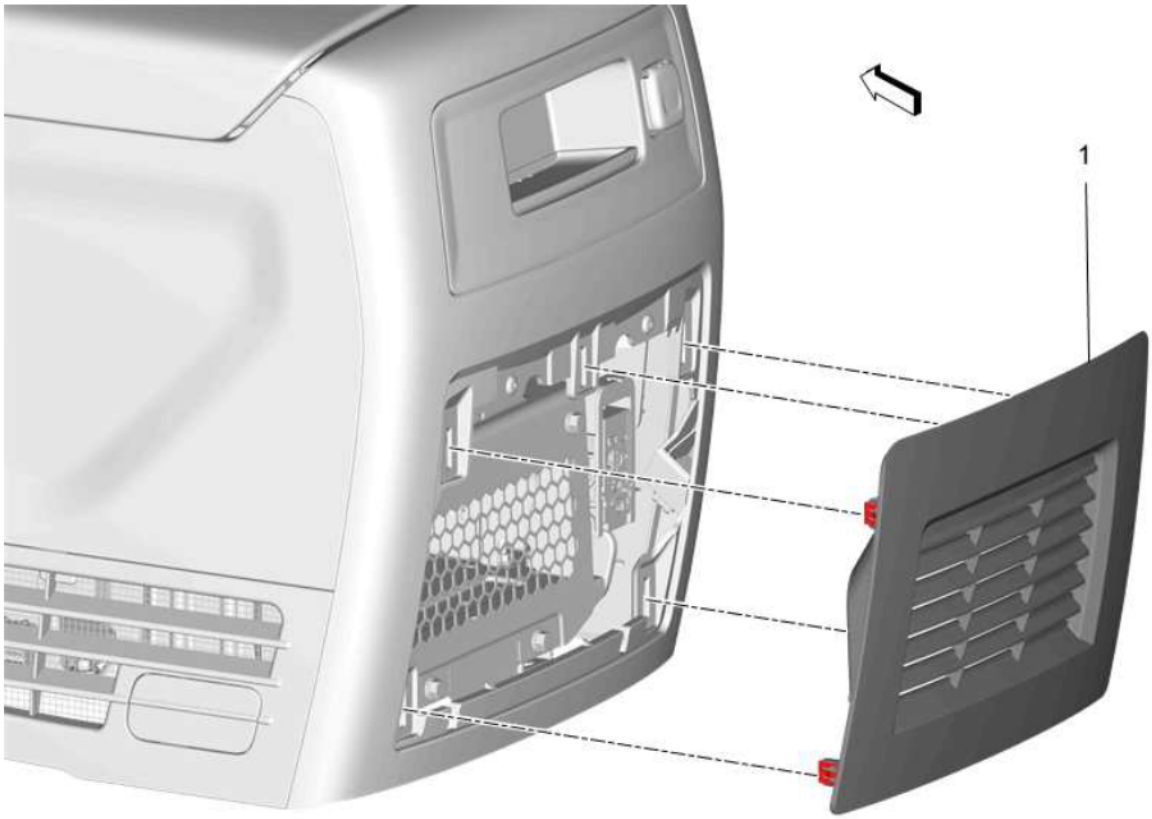


Fig. 144: Driver or Passenger Seat
Courtesy of GENERAL MOTORS COMPANY

14. Driver or Passenger Seat 2 - Install - **Driver or Passenger Seat Removal and Installation**
15. Enable the high voltage system. **High Voltage Disabling**



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Fig. 145: Front Floor Console Grille
Courtesy of GENERAL MOTORS COMPANY

16. Front Floor Console Grille 1 - Install - **Front Floor Console Grille Replacement**

REAR FLOOR CONSOLE ACCESSORY HOUSING REPLACEMENT

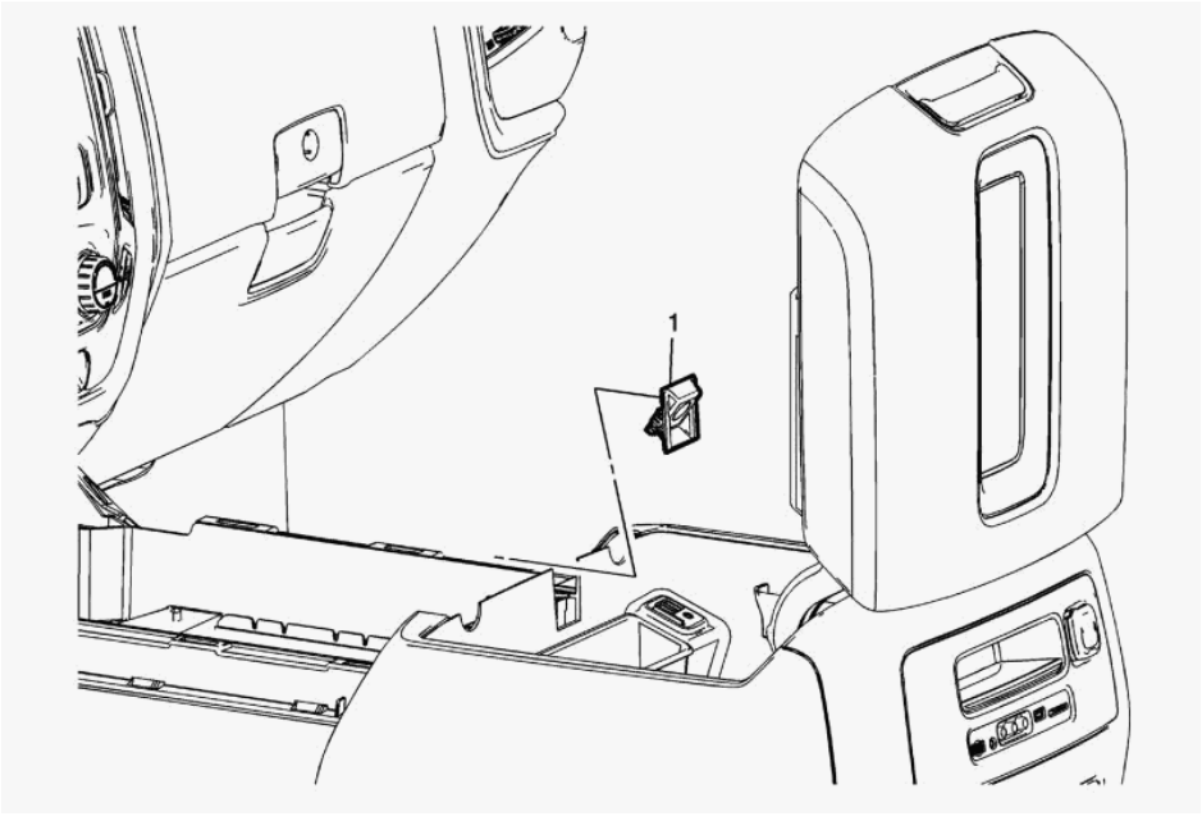


Fig. 146: Rear Floor Console Accessory Housing
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console trim plate. Refer to **Front Floor Console Trim Plate Replacement**.	
1	Rear Floor Console Accessory Housing **Procedure** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the accessory housing to the front floor console assembly. 2. Disconnect the electrical connection.

FRONT FLOOR CONSOLE ARMREST REPLACEMENT

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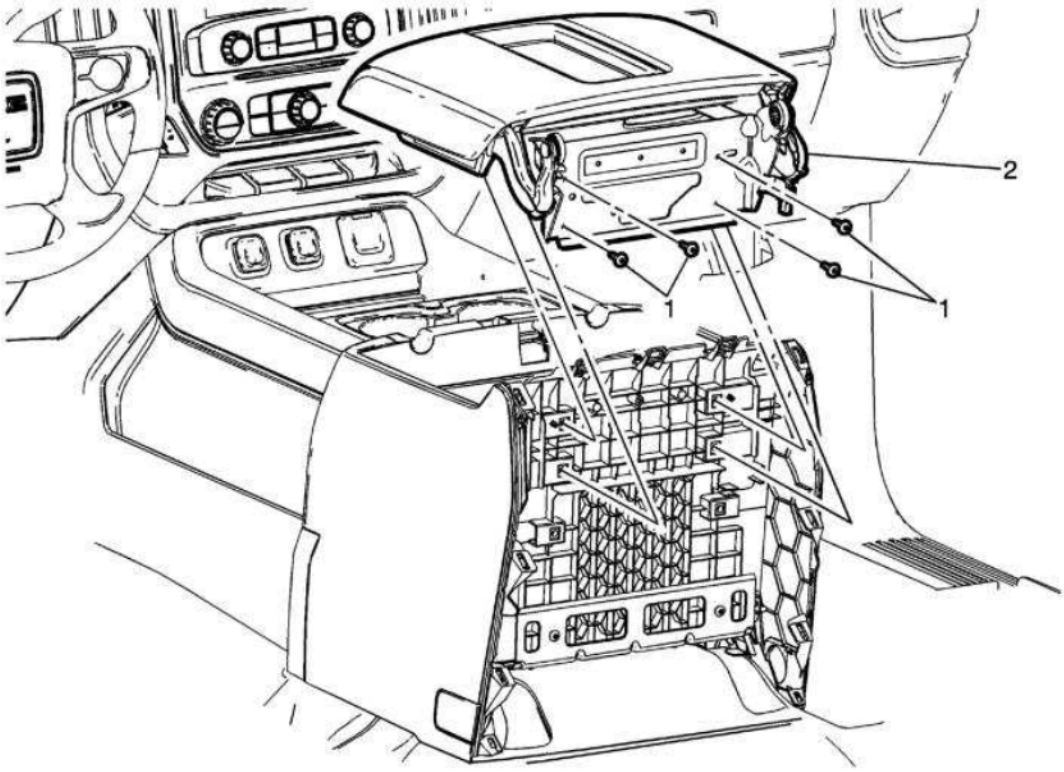


Fig. 147: Front Floor Console Armrest
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console rear trim panel. Refer to **Front Floor Console Rear Trim Panel Replacement**.	
1	Front Floor Console Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Front Floor Console Armrest **Procedure** Disconnect the wiring harness retainer.

FRONT FLOOR CONSOLE ARMREST HINGE REPLACEMENT

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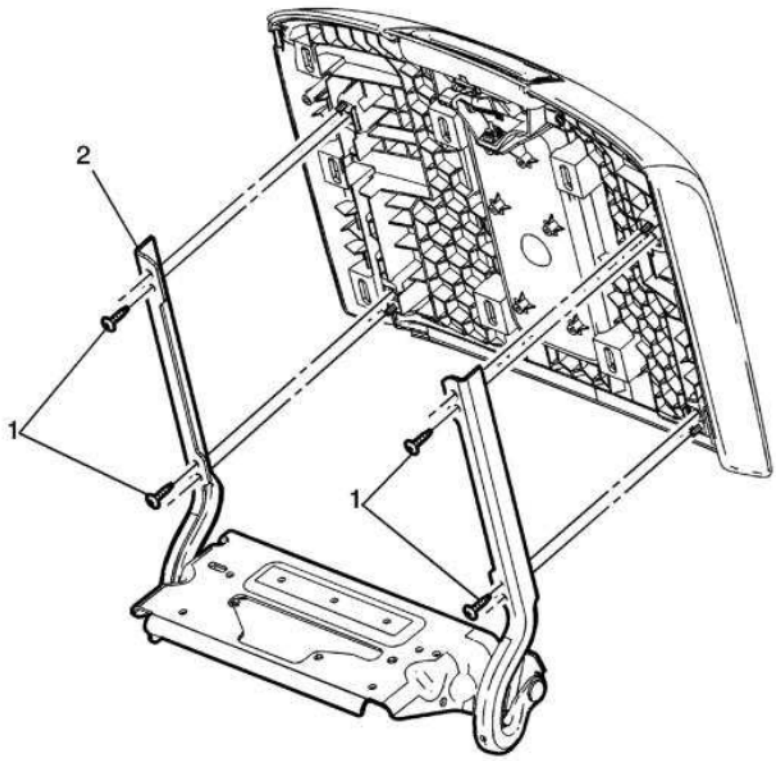


Fig. 148: Front Floor Console Armrest Hinge
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console armrest hinge cover. Refer to **Front Floor Console Armrest Hinge Cover Replacement**.	
1	Front Floor Console Armrest Hinge Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Front Floor Console Armrest Hinge

FRONT FLOOR CONSOLE ARMREST HINGE COVER REPLACEMENT

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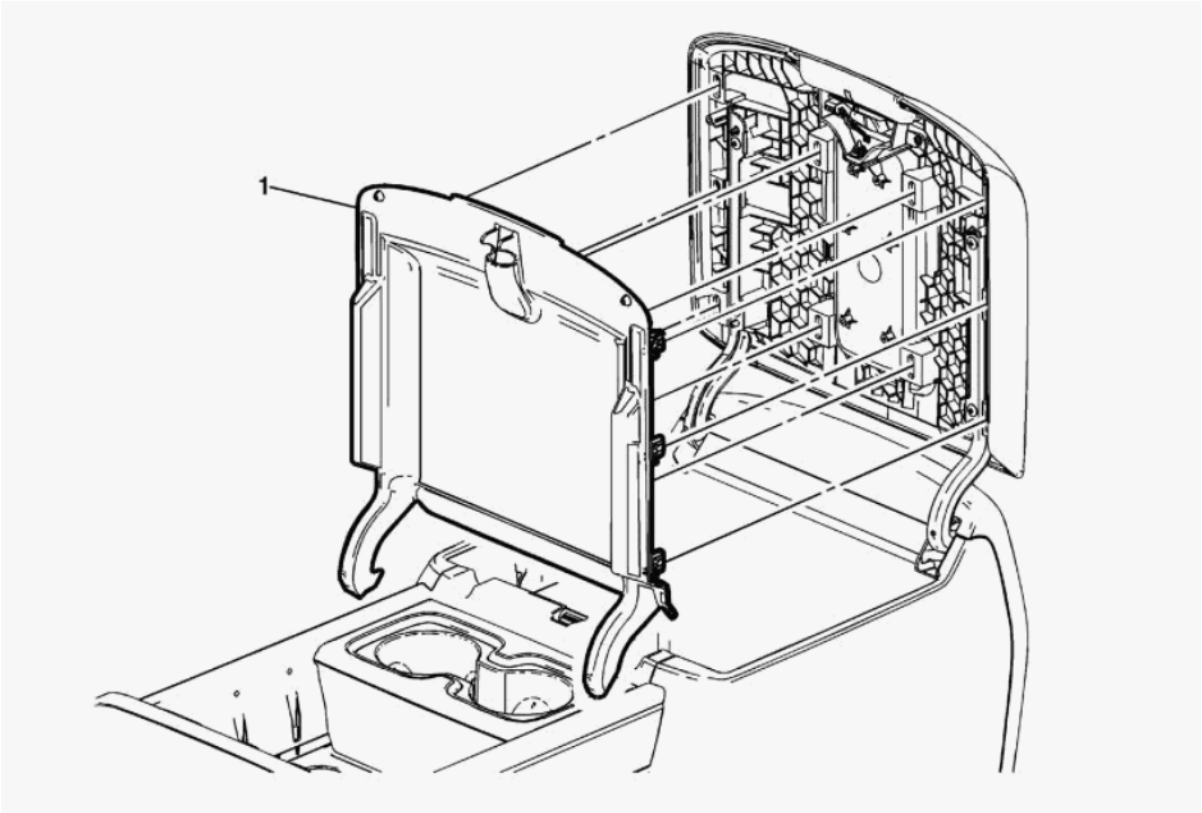


Fig. 149: Front Floor Console Armrest Hinge Cover
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Armrest Hinge Cover **Procedures** 1. Open the console armrest to access the armrest hinge cover retainers. 2. Use a flat bladed plastic trim tool in order to release the retainer clips securing the cover to the armrest.

FRONT FLOOR CONSOLE TRIM PLATE REPLACEMENT

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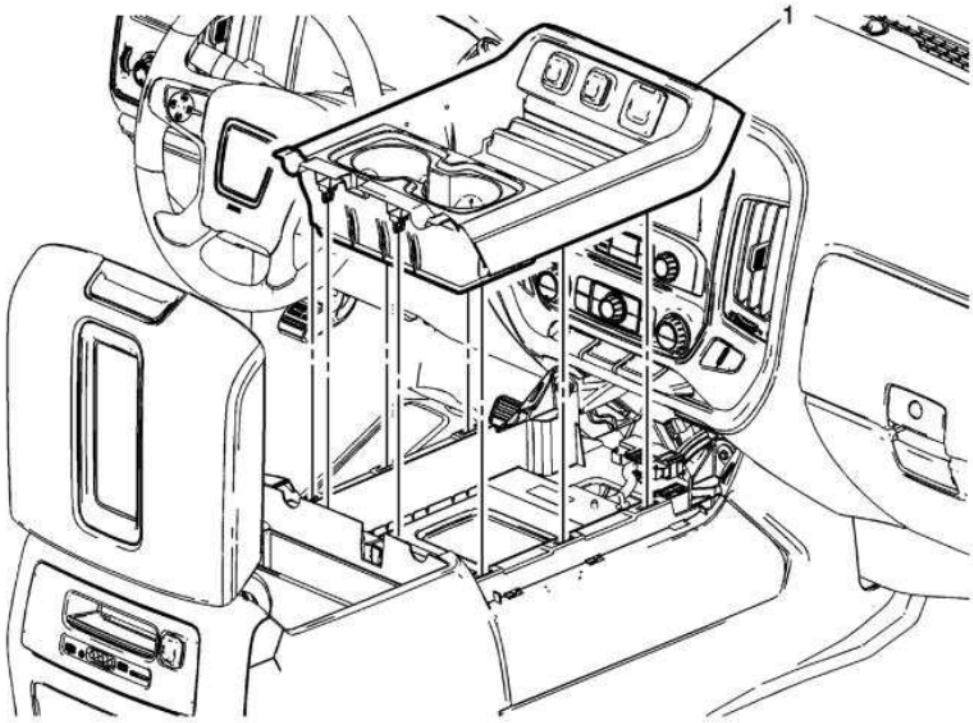


Fig. 150: Front Floor Console Trim Plate
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Trim Plate Assembly **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim plate to the front floor console assembly. 2. Disconnect electrical connections. 3. Transfer components as necessary.

FRONT FLOOR CONSOLE REAR COVER REPLACEMENT

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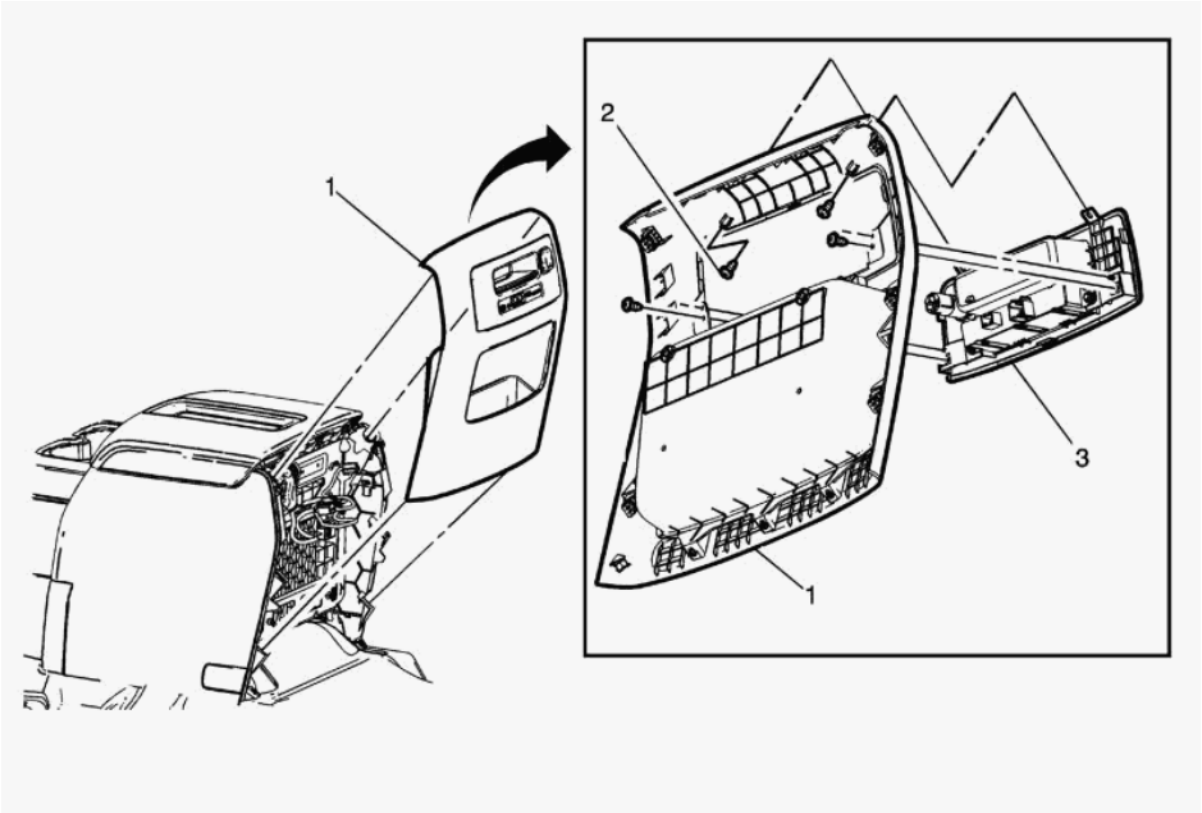


Fig. 151: Front Floor Console Rear Cover
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Rear Trim Panel Refer to **Front Floor Console Rear Trim Panel Replacement**.
2	Front Floor Console Rear Cover Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener** **Caution** . **Tighten** 2.5 N.m (22 lb in)
3	Front Floor Console Rear Cover **Procedure** Transfer components as necessary.

ROOF CONSOLE REPLACEMENT

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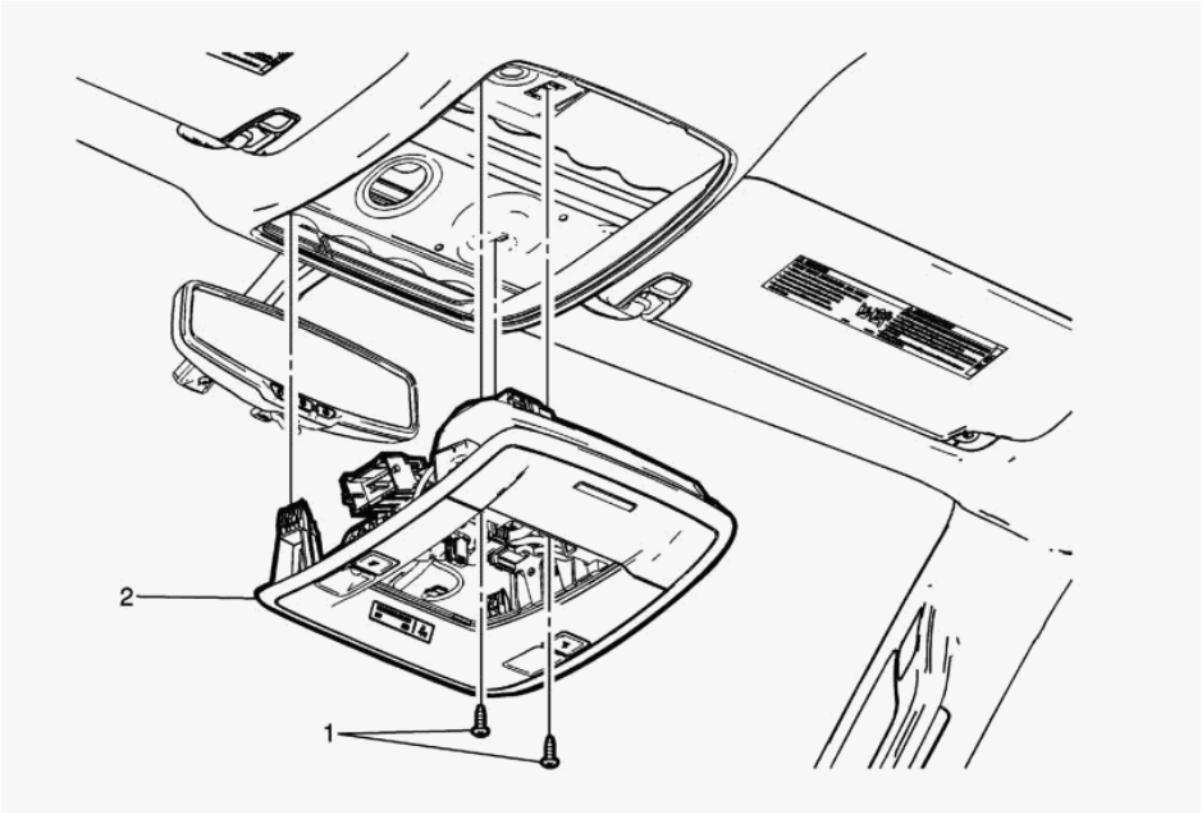


Fig. 152: Roof Console Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the roof console opening trim plate. Refer to **Roof Console Opening Trim Plate Replacement**.	
1	Roof Console Bolt (Qty: 2) **CAUTION:** **Refer to** **Fastener** **Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Roof Console Assembly **Procedure** 1. Grasp the front of the right and left sides of the roof console assembly and pull downward using equal force on each side in order to release the four retainer clips securing the roof console assembly to the headlining assembly. 2. Disconnect the electrical connections. 3. When replacing the roof console assembly, transfer all necessary components.

ROOF CONSOLE FILLER REPLACEMENT

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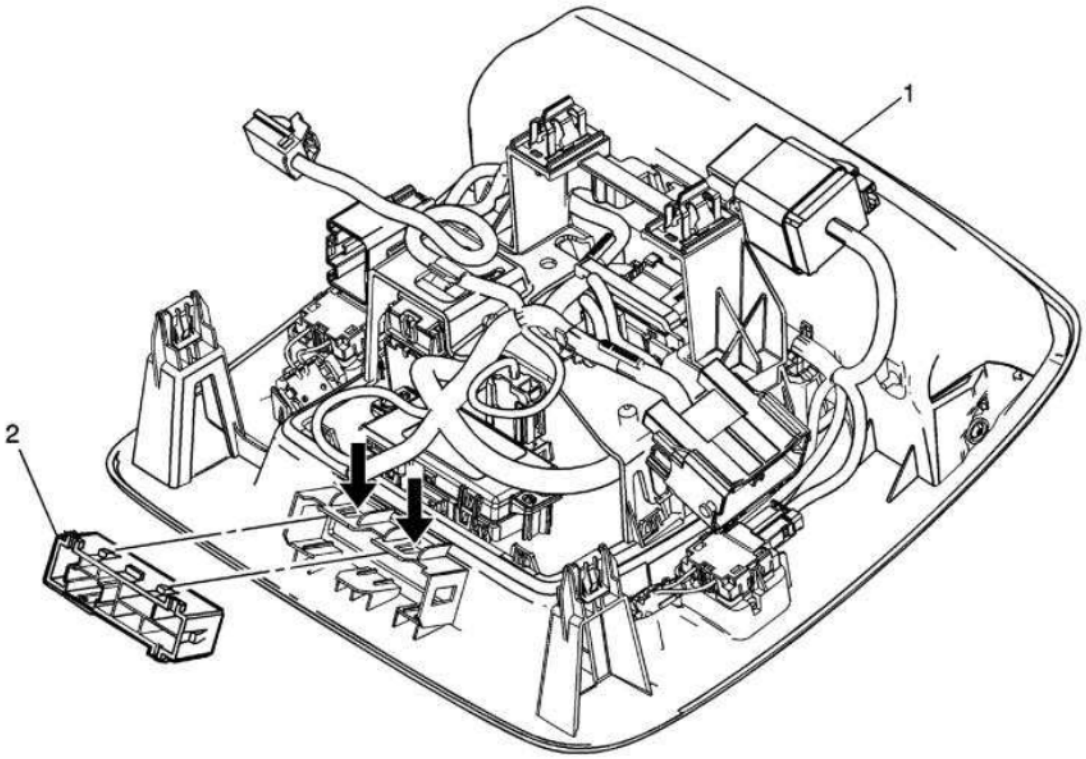


Fig. 153: Roof Console Filler
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Roof Console Refer to **Roof Console Replacement**.
2	Roof Console Filler **Procedure** Use a suitable tool to release the tabs securing the filler to the roof console assembly.

ROOF CONSOLE OPENING TRIM PLATE REPLACEMENT

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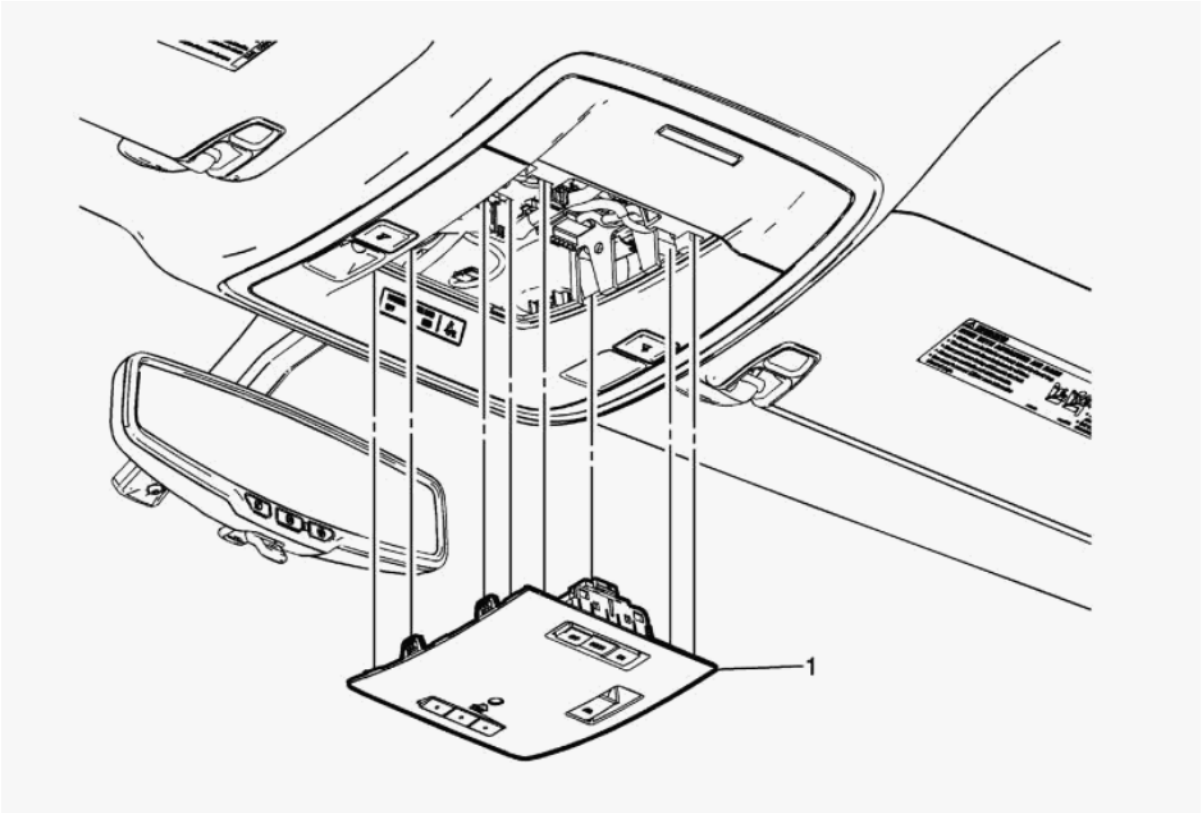


Fig. 154: Roof Console Opening Trim Plate
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Roof Console Opening Trim Plate **Procedure** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim plate to the roof console assembly. 2. Disconnect the electrical connection. 3. When replacing the trim plate, transfer all necessary components.

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