ACCESSORIES & EQUIPMENT

Instrument Panel and Console Trim - Escalade, Suburban, Tahoe, Yukon

SPECIFICATIONS

FASTENER SPECIFICATIONS (CHEVROLET / GMC)

Application	Specification	
	Metric	English
Communication Interface Module Bracket Bolt	2.5 N.m	22 lb in
Front Floor Console Bolt	2.5 N.m	22 lb in
Front Floor Console Bolt to the Floor Tunnel	45 N.m	33 lb ft
Front Floor Console Bolt to the Instrument Panel	9 N.m	80 lb in
Front Floor Console Front Compartment Cover Bolt	2.5 N.m	22 lb in
Front Floor Console Rear Compartment Bolt	2.5 N.m	22 lb in
Instrument Carrier Bolt	2.5 N.m	22 lb in
Instrument Panel Accessory Bezel Bolt	2.5 N.m	22 lb in
Instrument Panel Accessory Trim Center Plate Bolt	2.5 N.m	22 lb in
Instrument Panel Bolt	22 N.m	16 lb ft
Instrument Panel Carrier Nut	9 N.m	80 lb in
Instrument Panel Center and Outer Air Outlet Bolt	2.5 N.m	22 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 Compartment Door Strut Bolt	2.5 N.m	22 lb in
Instrument Panel Inflatable Restraint Module Bolt	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 Tie Bar Brace Bolt	22 N.m	16 lb ft
Instrument Panel Trim Plate Bolt	2.5 N.m	22 lb in
Instrument Panel Upper Bolt	2.5 N.m	22 lb in

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Application	Specification	
	Metric	English
Instrument Panel Upper Trim Panel Bolt	9 N.m	80 lb in
Roof Console Bolt	2.5 N.m	22 lb in
Roof Rear Console Bolt	2.5 N.m	22 lb in

FASTENER SPECIFICATIONS (CADILLAC)

Application	Specification	
	Metric	English
Air Distributor Front Duct Bolt	2.5 N.m	22 lb in
Communication Interface Module Bracket Bolt	2.5 N.m	22 lb in
Front Floor Console Bolt	2.5 N.m	22 lb in
Front Floor Console Bolt to the Floor Tunnel	45 N.m	33 lb ft
Front Floor Console Bolt to the Instrument Panel	9 N.m	80 lb in
Front Floor Console Rear Compartment Bolt	2.5 N.m	22 lb in
Front Floor Console Side Trim Panel Bolt	2.5 N.m	22 lb in
Instrument Carrier Bolt	2.5 N.m	22 lb in
Instrument Panel Accessory Bezel Bolt	2.5 N.m	22 lb in
Instrument Panel Bolt	22 N.m	16 lb ft
Instrument Panel Carrier Nut	9 N.m	80 lb in
Instrument Panel Center Support Bracket 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 Compartment Door Dampener Bolt	1.5 N.m	13 lb in
Instrument Panel Inflatable Restraint Module Bolt	9 N.m	80 lb in
Instrument Panel Instrument Cluster Hood Bolt	2.5 N.m	22 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 Trim Panel Bolt	2.5 N.m	22 lb in
Instrument Panel Tie Bar Brace Bolt	22 N.m	16 lb ft
Instrument Panel Trim Plate Bolt	2.5 N.m	22 lb in

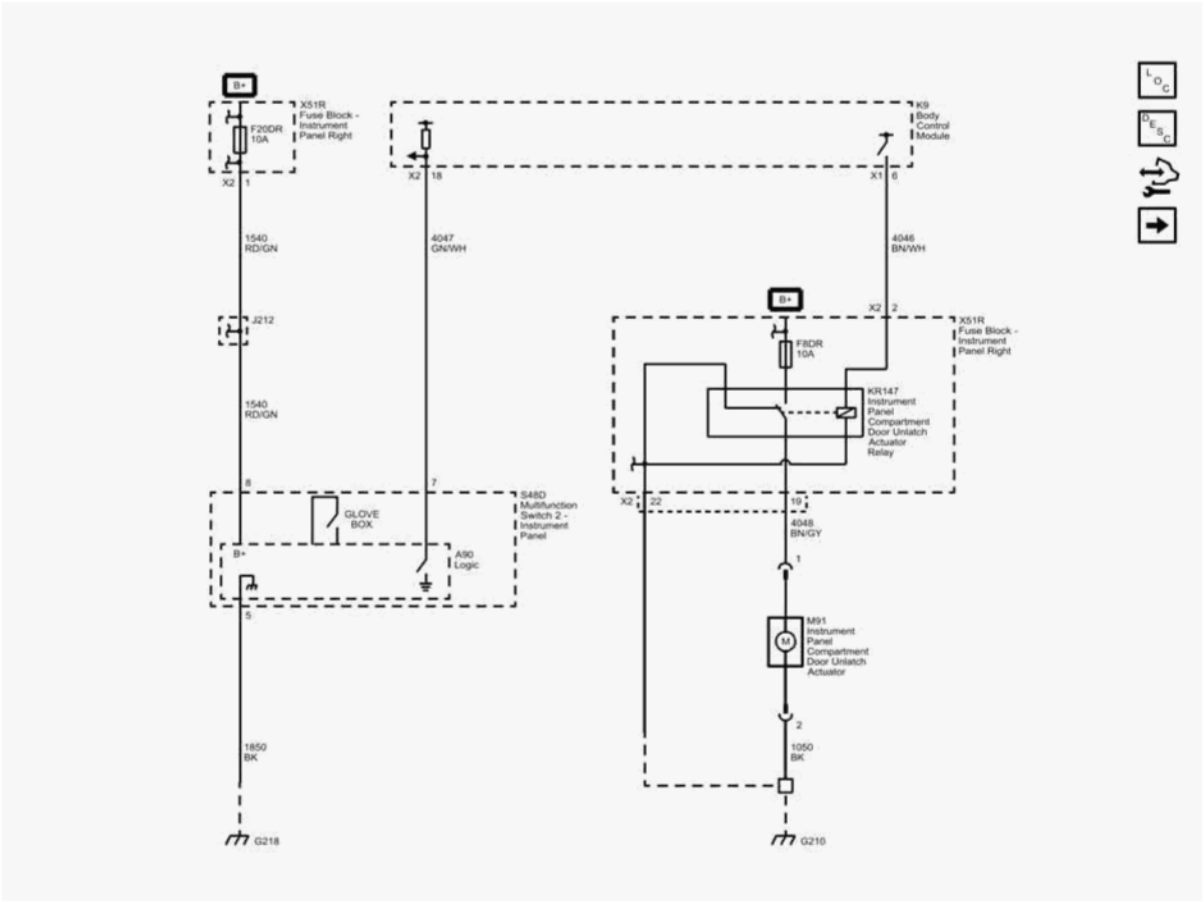
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Application	Specification	
	Metric	English
Instrument Panel Upper Bolt	2.5 N.m	22 lb in
Instrument Panel Upper Trim Panel Bolt	9 N.m	80 lb in
Roof Console Bolt	2.5 N.m	22 lb in

SCHEMATIC WIRING DIAGRAMS

INSTRUMENT PANEL COMPARTMENT WIRING SCHEMATICS

Glove Box (Z75)



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Fig. 1: Glove Box (Z75)
Courtesy of GENERAL MOTORS COMPANY

Cooler Box (DCK)

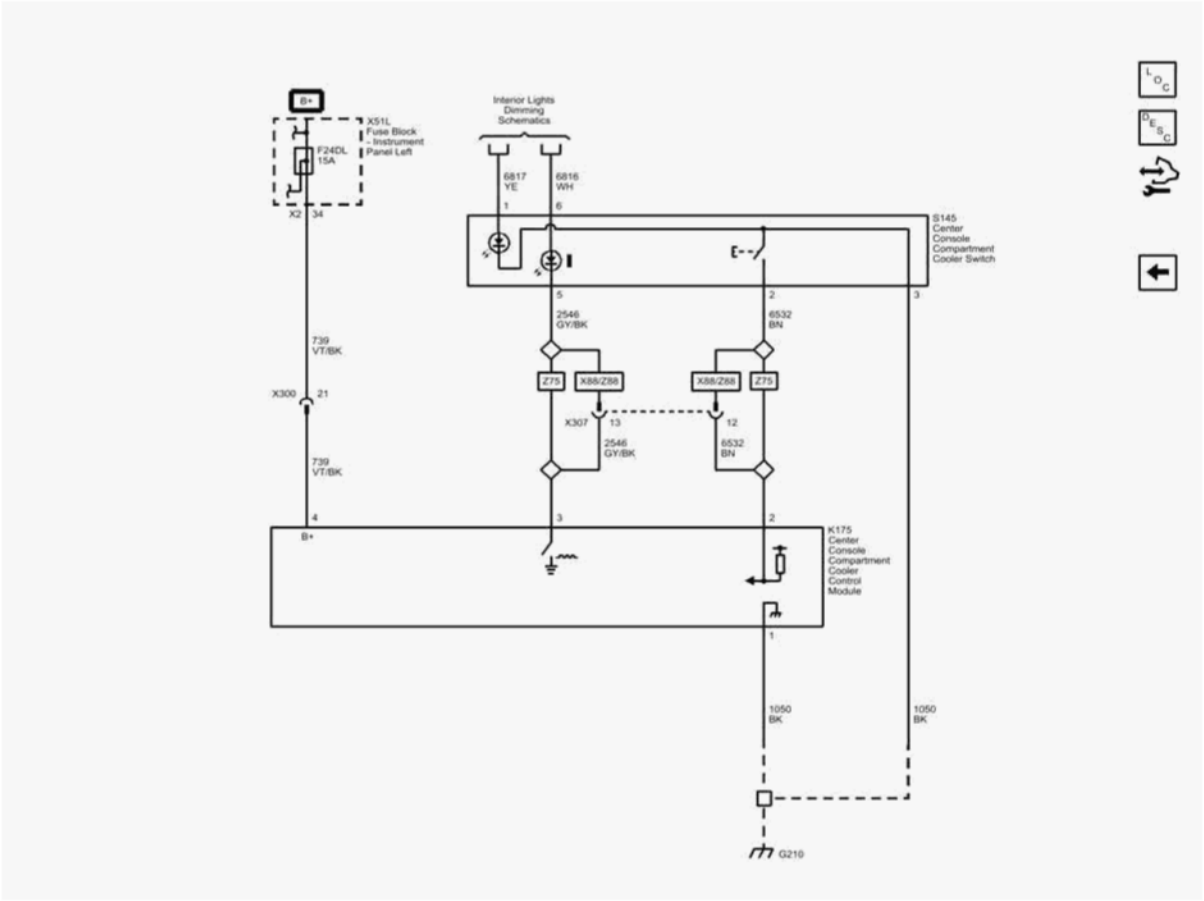


Fig. 2: Cooler Box (DCK)
Courtesy of GENERAL MOTORS COMPANY

DIAGNOSTIC INFORMATION AND PROCEDURES

DTC B324D: INSTRUMENT PANEL COMPARTMENT DOOR LATCH ACTUATOR CIRCUIT

Diagnostic Instructions

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- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

DTC Descriptors

DTC B324D

Instrument Panel Compartment Door Latch Actuator Circuit

For symptom byte information refer to: **Symptom Byte List** .

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
BCM B+	B324D 01, B324D 04	B324D 01, B324D 04	-	-
Instrument Panel Compartment Door Unlatch Actuator Relay Control	B324D 02	B324D 04	B324D 01	-
Right Instrument Panel Fuse Block Ground	-	B324D 04	-	-

Circuit/System Description

The body control module supplies a 12V reference voltage to the instrument panel multifunction switch through the release switch signal circuit. When the instrument panel multifunction switch is pressed, the release switch signal circuit is grounded through the instrument panel multifunction switch ground circuit and the reference voltage is pulled low within the body control module. In response, the body control module applies battery positive voltage to the instrument panel compartment door unlatch actuator relay control circuit, which energizes the coil side of the relay. The switch side of the instrument panel compartment door unlatch actuator relay then closes, supplying battery positive voltage through the relay and the instrument panel compartment door latch control circuit activating the latch releasing the instrument panel compartment door.

Conditions for Running the DTC

When the relay is being actively commanded by the body control module

Conditions for Setting the DTC

B324D 01 and B324D 04

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A loss of B+ voltage to the body control module.

B324D 01

The body control module detects short to battery in the instrument panel compartment door unlatch actuator relay control circuit.

B324D 02

The body control module detects short to ground in the instrument panel compartment door unlatch actuator relay control circuit.

B324D 04

The body control module detects an open/high resistance in the instrument panel compartment door unlatch actuator relay control circuit.

Action Taken When the DTC Sets

B324D 01 and B324D 04

The instrument panel multifunction switch 2 will be inoperative.

B324D 01

The instrument panel compartment door will not latch.

B324D 02 or B324D 04

The body control module will command the relay, but the relay will not energize and the instrument panel compartment door unlatch actuator will not activate.

Conditions for Clearing the DTC

- The DTC will be current for as long as the fault is present.
- When the fault is no longer present, the DTC will be a history DTC.
- A history DTC will clear after 50 ignition cycles.

Reference Information

Schematic Reference

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- **Instrument Panel Compartment Schematics**
- **Door Lock/Indicator Schematics**

Connector End View Reference

COMPONENT CONNECTOR END VIEWS - INDEX

Description and Operation

Instrument Panel Compartment Description and Operation

Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

1. Ignition ON.
2. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator activates when pressing the appropriate switch on the S48D Multifunction Switch 2 - Instrument Panel.
   - **If the M91 Instrument Panel Compartment Door Unlatch Actuator does not activate**

     Refer to Circuit/System Testing.

   - **If the M91 Instrument Panel Compartment Door Unlatch Actuator activates**
3. All OK.

Circuit/System Testing

1. Ignition OFF, disconnect the X2 harness connector at the K9 Body Control Module, ignition ON.

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2. Verify a test lamp illuminates between the B+ circuit terminal 3 and ground.
    - **If the test lamp does not illuminate and the circuit fuse is good**
    1. Ignition OFF.
    2. Test for less than 2 Ω in the ignition circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, verify the fuse is not open and there is voltage at the fuse.
    - **If the test lamp does not illuminate and the circuit fuse is open**
    1. Ignition OFF.
    2. Test for infinite resistance between the ignition circuit and ground.
        - If less than infinite resistance, repair the short to ground on the circuit.
        - If infinite resistance, replace the K9 Body Control Module.
    - **If the test lamp illuminates**
3. Ignition OFF and all vehicle systems OFF, disconnect the X2 harness connector at the X51R Fuse Block-Instrument Panel Right. It may take up to 2 minutes for all vehicle systems to power down.
4. Test for less than 10 Ω between the ground circuit terminal 22 and ground.
    - **If 10 Ω or greater**
    1. Ignition OFF.
    2. Test for less than 2 Ω in the ground circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, repair the open/high resistance in the ground connection.
    - **If less than 10 Ω**
5. Ignition OFF, connect the X2 harness connector at the X51R Fuse Block-Instrument Panel Right. Disconnect the X1 harness connector at the K9 Body Control Module, ignition ON.
6. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator is not activated.
    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator is activated**
    1. Ignition OFF, disconnect the X1 harness connector at the X51R Fuse Block-Instrument Panel Right.
    2. Test for less than 1 V between the K9 Body Control Module control circuit terminal 6 X1 and ground.
        - If 1 V or greater, repair the short to voltage on the circuit.
        - If less than 1 V, replace the X51R Fuse Block-Instrument Panel Right.

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- **If the M91 Instrument Panel Compartment Door Unlatch Actuator is not activated**

7. Connect a 3A fused jumper wire between the control circuit terminal 6 and B+.
8. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator activates.
    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator does not activate**
    1. Ignition OFF, remove the jumper wire, disconnect the X2 harness connector at the X51R Fuse Block-Instrument Panel Right, ignition ON.
    2. Test for infinite resistance between the K9 Body Control Module control circuit terminal 8 X4 and ground.
        - If less than Infinite resistance, repair the short to ground on the circuit.
        - If infinite resistance
    3. Test for less than 2 Ω in the control circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, replace the X51R Fuse Block-Instrument Panel Right.
    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator activates**
9. Replace the K9 Body Control Module.

Repair Instructions

Perform the **Diagnostic Repair Verification** after completing the repair.

- **Instrument Panel Wiring Harness Junction Block Replacement**
- **Control Module References** for body control module replacement, programming and setup

SYMPTOMS-INSTRUMENT PANEL AND CONSOLE TRIM

NOTE: **The following steps must be completed before using the symptom tables.**

1. Perform the **Diagnostic System Check - Vehicle** .
    - There are no DTCs set
    - The control modules can communicate via the serial data link
2. Review the system operation in order to familiarize yourself with the system functions. Refer to the following systems description:
    - **Cooler Box Description and Operation**
    - **Instrument Panel Compartment Description and Operation**

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Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the system. Refer to **Checking Aftermarket Accessories** .
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Intermittents

NOTE: **Inspect for proper installation of electrical components if an intermittent condition exists. Inspect for aftermarket theft deterrent devices, lights, and cellular phones. Ensure that no aftermarket equipment is connected to the class 2 circuit. If you can not locate an intermittent condition, a cellular phone signal may cause the condition. Faulty electrical connections or wiring may also be the cause of intermittent conditions. Refer to Testing for Intermittent Conditions and Poor Connections .**

NOTE: **The problem may or may not turn ON the SERVICE VEHICLE SOON indicator or store a DTC. Do not use the symptom tables to diagnose intermittent conditions. The malfunction must be present in order to locate the problem.**

Poor electrical connections or wiring cause most intermittent conditions. Perform a careful visual/physical check for the following conditions:

- Poor mating of the connector halves or a terminal not fully seated in the connector body
- An improperly formed or damaged terminal
- Reform or replace connector terminals in the problem circuit in order to ensure proper contact tension.
- Poor terminal to wire connection requires removing the terminal from the connector body in order to perform the check.

Use a scan tool in order to help detect intermittent conditions. The scan tool has several features that can be used to locate an intermittent condition. The snapshot feature can capture and store data parameters within the scan tool when the malfunction occurs. This information can then be reviewed in order to see what caused the malfunction.

Symptom List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

- **Cooler Box Malfunction**
- **Instrument Panel Compartment Door Latch Release Malfunction**

COOLER BOX MALFUNCTION

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Diagnostic Instructions

- Perform the **Diagnostic System Check - Vehicle** prior to using this diagnostic procedure.
- Review **Strategy Based Diagnosis** for an overview of the diagnostic approach.
- **Diagnostic Procedure Instructions** provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
B+	1	1	-	-
Indicator Control Terminal 5	3	4	4	-
Switch Signal Terminal 2	2	1	1	-
Module Ground Terminal 1	-	1	-	-
Switch Ground Terminal 3	-	1	-	-
1. Cooler Inoperative 2. Cooler Always On 3. Indicator Always On 4. Indicator Always Off				

Circuit/System Description

The K175 Center Console Compartment Cooler Control Module functions with the ignition ON. There is 1 switch signal circuit which controls the cooler after the ignition ON. The other signal circuit is for the indicator. The K175 Center Console Compartment Cooler Control Module has a switch which turns on a LED when the K175 Center Console Compartment Cooler Control Module is commanded on.

Reference Information

Schematic Reference

Instrument Panel Compartment Schematics

Connector End View Reference

COMPONENT CONNECTOR END VIEWS - INDEX

Description and Operation

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Cooler Box Description and Operation

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Circuit/System Verification

1. Ignition ON, turn on the K175 Center Console Compartment Cooler Control Module.
2. Verify the K175 Center Console Compartment Cooler Control Module cools.
    - **If K175 Center Console Compartment Cooler Control Module does not cool**

      Refer to Circuit/System Testing - Cooler Inoperative.

    - **If K175 Center Console Compartment Cooler Control Module does cool**
3. Verify the S145 Center Console Compartment Cooler Switch indicator illuminates when cooler is activated.
    - **If S145 Center Console Compartment Cooler Switch indicator does not illuminate**

      Refer to Circuit/System Testing - Cooler Indicator Malfunction.

    - **If S145 Center Console Compartment Cooler Switch indicator is always illuminated**

      Refer to Circuit/System Testing - Cooler Indicator Malfunction.

    - **If K175 Center Console Compartment Cooler Control Module does illuminate properly**
4. All OK.

Circuit/System Testing

Cooler Inoperative

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the K175 Center Console Compartment Cooler Control Module. It may take up to 2 min for all vehicle systems to power down.

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2. Test for less than 10 Ω between the ground circuit terminal 1 and ground.
    - **If 10 Ω or greater**
    1. Ignition OFF.
    2. Test for less than 2 Ω in the ground circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, repair the open/high resistance in the ground connection.
    - **If less than 10 Ω**
3. Ignition ON.
4. Verify a test lamp illuminates between the B+ circuit terminal 4 and ground.
    - **If the test lamp does not illuminate and the circuit fuse is good**
    1. Ignition OFF, remove the test lamp.
    2. Test for less than 2 Ω in the B+ circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, verify the fuse is OK and there is voltage at the fuse.
    - **If the test lamp does not illuminate and the circuit fuse is open**
    1. Ignition OFF, remove the test lamp.
    2. Test for infinite resistance between the B+ circuit and ground.
        - If less than infinite resistance, repair the short to ground on the circuit.
        - If infinite resistance
    3. Connect the K175 Center Console Compartment Cooler Control Module and replace the fuse.
    4. Ignition ON, verify the fuse does not open when connecting or working the K175 Center Console Compartment Cooler Control Module.
        - If the fuse opens, replace the K175 Center Console Compartment Cooler Control Module.
        - If the fuse is OK
    5. All OK
    - **If the test lamp illuminates**
5. Ignition OFF and all vehicle systems OFF, connect the harness connector at the K175 Center Console Compartment Cooler Control Module and disconnect the S145 Center Console Compartment Cooler Switch. It may take up to 2 min for all vehicle systems to power down.
6. Test for less than 10 Ω between the ground circuit terminal 3 and ground.
    - **If 10 Ω or greater**

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1. Ignition OFF.
2. Test for less than 2 Ω in the ground circuit end to end.
    - If 2 Ω or greater, repair the open/high resistance in the circuit.
    - If less than 2 Ω, repair the open/high resistance in the ground connection.

- **If less than 10 Ω**

7. Test for 11-12 V between the signal circuit terminal 2 and ground.

- **If less than 11 V**

1. Ignition OFF, disconnect the harness connector at the K175 Center Console Compartment Cooler Control Module.
2. Test for infinite resistance between the signal circuit and ground.
    - If less than infinite resistance, repair the short to ground on the circuit.
    - If infinite resistance
3. Test for less than 2 Ω in the signal circuit end to end.
    - If 2 Ω or greater, repair the open/high resistance in the circuit.
    - If less than 2 Ω, replace the K175 Center Console Compartment Cooler Control Module.

- **If greater than 11 V**

1. Ignition OFF, disconnect the harness connector at the K175 Center Console Compartment Cooler Control Module, ignition ON.
2. Test for less than 1 V between the signal circuit and ground.
    - If 1 V or greater, repair the short to voltage on the circuit.
    - If less than 1 V, replace the K175 Center Console Compartment Cooler Control Module.

- **If between 11-12 V**

8. While pressing the S145 Center Console Compartment Cooler Switch, test for less than 2 Ω between the ground circuit terminal 3 and switch signal circuit terminal 2 at the switch

- **If 2 Ω or greater**

  Replace the S145 Center Console Compartment Cooler Switch.

- **If less than 2 Ω**

9. Replace the K175 Center Console Compartment Cooler Control Module.

Cooler Indicator Malfunction

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1. Ignition OFF and all vehicle systems OFF, disconnect the S145 Center Console Compartment Cooler Switch.
2. Test for less than 1 V between the indicator control circuit terminal 5 and ground.
    - **If 1 V or greater**

      Repair the short to voltage on the circuit.

    - **If less than 1 V**
3. Test for infinite resistance between the indicator control circuit terminal 5 and ground.
    - **If less than infinite resistance**

      Repair the short to ground on the circuit.

    - **If infinite resistance**
4. Disconnect the harness connector at the K175 Center Console Compartment Cooler Control Module.
5. Test for less than 2 Ω in the control circuit end to end.
    - **If 2 Ω or greater**

      Repair the open/high resistance in the circuit.

    - **If less than 2 Ω**
6. Connect the S145 Center Console Compartment Cooler Switch.
7. Install 3 A fused jumper harness between K175 Center Console Compartment Cooler Control Module harness connector terminal 3 and ground
8. Ignition ON, verify indicator illuminates.
    - **If the indicator illuminates**

      Replace the K175 Center Console Compartment Cooler Control Module.

    - **If the indicator does not illuminate**
9. Replace the S145 Center Console Compartment Cooler Switch.

Repair Instructions

Perform the **Diagnostic Repair Verification** after completing the repair.

- **Front Floor Console Front Compartment Replacement (Chevrolet / GMC)Front Floor Console Front Compartment Replacement**

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(Cadillac)

- Control Module References for the control module replacement, programming and setup

INSTRUMENT PANEL COMPARTMENT DOOR LATCH RELEASE MALFUNCTION

Diagnostic Instructions

- Perform the Diagnostic System Check - Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
BCM B+	B324D 01, B324D 04	B324D 01, B324D 04	-	-
Instrument Panel Compartment Door Unlatch Actuator Relay Control	B324D 02	B324D 04	B324D 01	-
Instrument Panel Right Fuse Block Ground	-	B324D 04	-	-
Instrument Panel Compartment Door Unlatch Actuator Control	1	1	1	-
Instrument Panel Compartment Door Unlatch Actuator Ground	-	1	-	-
Glove Box Door Release Signal	2	2	2	-
Multifunction Switch 2-Instrument Panel Ground	-	2	-	-
1. Instrument Panel Compartment Door Unlatch Actuator Inoperative 2. Instrument Panel Compartment Release Switch Inoperative				

Circuit/System Description

The body control module supplies a 12V reference voltage to the instrument panel multifunction switch through the release switch signal circuit. When the instrument panel multifunction switch is pressed, the release switch signal circuit is grounded through the instrument panel multifunction switch ground circuit and the reference voltage is pulled low within the body control module. In response, the body control module applies battery positive voltage to the instrument panel compartment door unlatch actuator relay control circuit, which energizes the coil side of the relay. The switch

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side of the instrument panel compartment door unlatch actuator relay then closes, supplying battery positive voltage through the relay and the instrument panel compartment door latch control circuit activating the latch releasing the instrument panel compartment door.

Reference Information

Schematic Reference

- **Instrument Panel Compartment Schematics**
- **Door Lock/Indicator Schematics**

Connector End View Reference

COMPONENT CONNECTOR END VIEWS - INDEX

Description and Operation

Instrument Panel Compartment Description and Operation

Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

1. Ignition ON.
2. Verify the scan tool Glove Box Unlatch Switch parameter changes from Inactive to Active to Inactive when pressing the appropriate switch on the S48D Multifunction Switch 2 - Instrument Panel.
    - **If the parameter does not change**

      Refer to Circuit/System Testing - Instrument Panel Compartment Door Release Switch Inoperative.

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- **If the parameter changes**

3. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator activates when pressing the appropriate switch on the S48D Multifunction Switch 2 - Instrument Panel.
   - **If the M91 Instrument Panel Compartment Door Unlatch Actuator does not activate**

     Refer to Circuit/System Testing - Instrument Panel Compartment Door Latch Inoperative.

   - **If the M91 Instrument Panel Compartment Door Unlatch Actuator activates**
4. All OK.

Circuit/System Testing

Instrument Panel Compartment Door Release Switch Inoperative

1. Ignition OFF, disconnect the X2 harness connector at the K9 Body Control Module, Ignition ON.
2. Verify a test lamp illuminates between the B+ circuit terminal 3 and ground.
   - **If the test lamp does not illuminate and the circuit fuse is good**
   1. Ignition OFF.
   2. Test for less than 2 Ω in the ignition circuit end to end.
      - If 2 Ω or greater, repair the open/high resistance in the circuit.
      - If less than 2 Ω, verify the fuse is not open and there is voltage at the fuse.
   - **If the test lamp does not illuminate and the circuit fuse is open**
   1. Ignition OFF.
   2. Test for infinite resistance between the ignition circuit and ground.
      - If less than infinite resistance, repair the short to ground on the circuit.
      - If infinite resistance, replace the K9 Body Control Module
   - **If the test lamp illuminates**
3. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the S48D Multifunction Switch 2 - Instrument Panel. It may take up to 2 minutes for all vehicle systems to power down.
4. Test for less than 10 Ω between the ground circuit terminal 2 and ground.
   - **If 10 Ω or greater**
   1. Ignition OFF.

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2. Test for less than 2 Ω in the ground circuit end to end.
    - If 2 Ω or greater, repair the open/high resistance in the circuit.
    - If less than 2 Ω, repair the open/high resistance in the ground connection.
- **If less than 10 Ω**

5. Ignition ON.
6. Test for greater than 10 V between the signal circuit terminal 7 and ground.
    - **If 10 V or less**
    1. Ignition OFF, disconnect the X2 harness connector at the K9 Body Control Module.
    2. Test for infinite resistance between the signal circuit and ground.
        - If less than infinite resistance, repair the short to ground on the circuit.
        - If infinite resistance
    3. Test for less than 2 Ω in the signal circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, replace the K9 Body Control Module.
    - **If greater than 10 V**
7. Test or replace the S48D Multifunction Switch 2 - Instrument Panel.

Instrument Panel Compartment Door Latch Inoperative

1. Ignition OFF, and all vehicle systems OFF. Disconnect the harness connector at the M91 Instrument Panel Compartment Door Unlatch Actuator. It may take up to 2 minutes for all vehicle systems to power down.
2. Test for less than 10 Ω between the ground circuit terminal 2 and ground.
    - **If 10 Ω or greater**
    1. Ignition OFF.
    2. Test for less than 2 Ω in the ground circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, repair the open/high resistance in the ground connection.
    - **If less than 10 Ω**
3. Connect a test lamp between the control circuit terminal 1 and ground, ignition ON.
4. Verify the test lamp does not turn ON and OFF when pressing the appropriate switch on the S48D Multifunction Switch 2-Instrument Panel.

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- **If the test lamp turns ON and OFF**

  Test or replace the M91 Instrument Panel Compartment Door Unlatch Actuator.

- **If the test lamp does not turn ON and OFF**

5. Ignition OFF, connect the harness connector at the M91 Instrument Panel Compartment Door Unlatch Actuator. Disconnect the X2 harness connector at the X51R Fuse Block-Instrument Panel Right, ignition ON.
6. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator is not activated.
   - **If the M91 Instrument Panel Compartment Door Unlatch Actuator is activated**
   1. Ignition OFF, disconnect the harness connector at the M91 Instrument Panel Compartment Door Unlatch Actuator, ignition ON.
   2. Test for less than 1 V between the control circuit terminal 1 and ground.
      - If 1 V or greater, repair the short to voltage on the circuit.
      - If less than 1 V, test or replace the M91 Instrument Panel Compartment Door Unlatch Actuator.
   - **If the M91 Instrument Panel Compartment Door Unlatch Actuator is not activated**
7. Connect a 10 A fused jumper wire between the control circuit terminal 19 and B+.
8. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator activates.
   - **If the M91 Instrument Panel Compartment Door Unlatch Actuator does not activate**
   1. Ignition OFF, remove the jumper wire, disconnect the harness connector at the M91 Instrument Panel Compartment Door Unlatch Actuator, ignition ON.
   2. Test for infinite resistance between the control circuit and ground.
      - If less than Infinite resistance, repair the short to ground on the circuit.
      - If infinite resistance
   3. Test for less than 2 Ω in the control circuit end to end.
      - If 2 Ω or greater, repair the open/high resistance in the circuit.
      - If less than 2 Ω, test or replace the M91 Instrument Panel Compartment Door Unlatch Actuator.
   - **If the M91 Instrument Panel Compartment Door Unlatch Actuator activates**
9. Ignition OFF and all vehicle systems OFF. It may take up to 2 minutes for all vehicle systems to power down.
10. Test for less than 10 Ω between the ground circuit terminal 22 and ground.
    - **If 10 Ω or greater**
    1. Ignition OFF.

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2. Test for less than 2 Ω in the ground circuit end to end.
    - If 2 Ω or greater, repair the open/high resistance in the circuit.
    - If less than 2 Ω, repair the open/high resistance in the ground connection.
- **If less than 10 Ω**

11. Ignition OFF, connect the X2 harness connector at the X51R Fuse Block-Instrument Panel Right. Disconnect the X1 harness connector at the K9 Body Control Module, ignition ON.
12. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator is not activated.
    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator is activated**
    1. Ignition OFF, disconnect the X2 harness connector at the X51R Fuse Block-Instrument Panel Right.
    2. Test for less than 1 V between the K9 Body Control Module control circuit terminal 6 X1 and ground.
        - If 1 V or greater, repair the short to voltage on the circuit.
        - If less than 1 V, replace the X51R Fuse Block-Instrument Panel Right.
    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator is not activated**
13. Connect a 3A fused jumper wire between the control circuit terminal 6 and B+.
14. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator activates.
    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator does not activate**
    1. Ignition OFF, remove the jumper wire, disconnect the X2 harness connector at the X51R Fuse Block-Instrument Panel Right, ignition ON.
    2. Test for infinite resistance between the K9 Body Control Module control circuit terminal 6 X1 and ground.
        - If less than Infinite resistance, repair the short to ground on the circuit.
        - If infinite resistance
    3. Test for less than 2 Ω in the control circuit end to end.
        - If 2 Ω or greater, repair the open/high resistance in the circuit.
        - If less than 2 Ω, replace the X51R Fuse Block-Instrument Panel Right.
    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator activates**
15. Replace the K9 Body Control Module.

Component Testing

Instrument Panel Compartment Door Release Switch

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1. Ignition OFF, disconnect the harness connector at the S48D Multifunction Switch 2 - Instrument Panel.
2. Test for infinite resistance between the signal terminal 7 and the ground terminal 1 with the switch in the open position.
    - **If less than infinite resistance**

      Replace the S48D Multifunction Switch 2 - Instrument Panel.

    - **If infinite resistance**
3. Test for less than 3 Ω between the signal terminal 7 and the ground terminal 1 with the switch in the closed position.
    - **If 3 Ω or greater**

      Replace the S48D Multifunction Switch 2 - Instrument Panel.

    - **If less than 3 Ω**
4. All OK.

Instrument Panel Compartment Door Release Actuator

1. Ignition OFF, disconnect the harness connector at the M91 Instrument Panel Compartment Door Unlatch Actuator.
2. Install a 10 A fused jumper wire between the control terminal 1 and 12 V. Install a jumper wire between the ground terminal 2 and ground.
3. Verify the M91 Instrument Panel Compartment Door Unlatch Actuator activates.
    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator does not activate.**

      Replace the M91 Instrument Panel Compartment Door Unlatch Actuator.

    - **If the M91 Instrument Panel Compartment Door Unlatch Actuator does activate.**
4. All OK.

Repair Instructions

Perform the **Diagnostic Repair Verification** after completing the repair.

- **Instrument Panel Wiring Harness Junction Block Replacement**
- **Instrument Panel Compartment Door Latch Actuator Replacement (Cadillac)**
- **Instrument Panel Multifunction Switch Replacement (Cadillac)**
- **Control Module References** for body control module replacement, programming and setup

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REPAIR INSTRUCTIONS

OPENING THE INSTRUMENT PANEL COMPARTMENT DOOR WITHOUT ELECTRICAL POWER (CADILLAC)

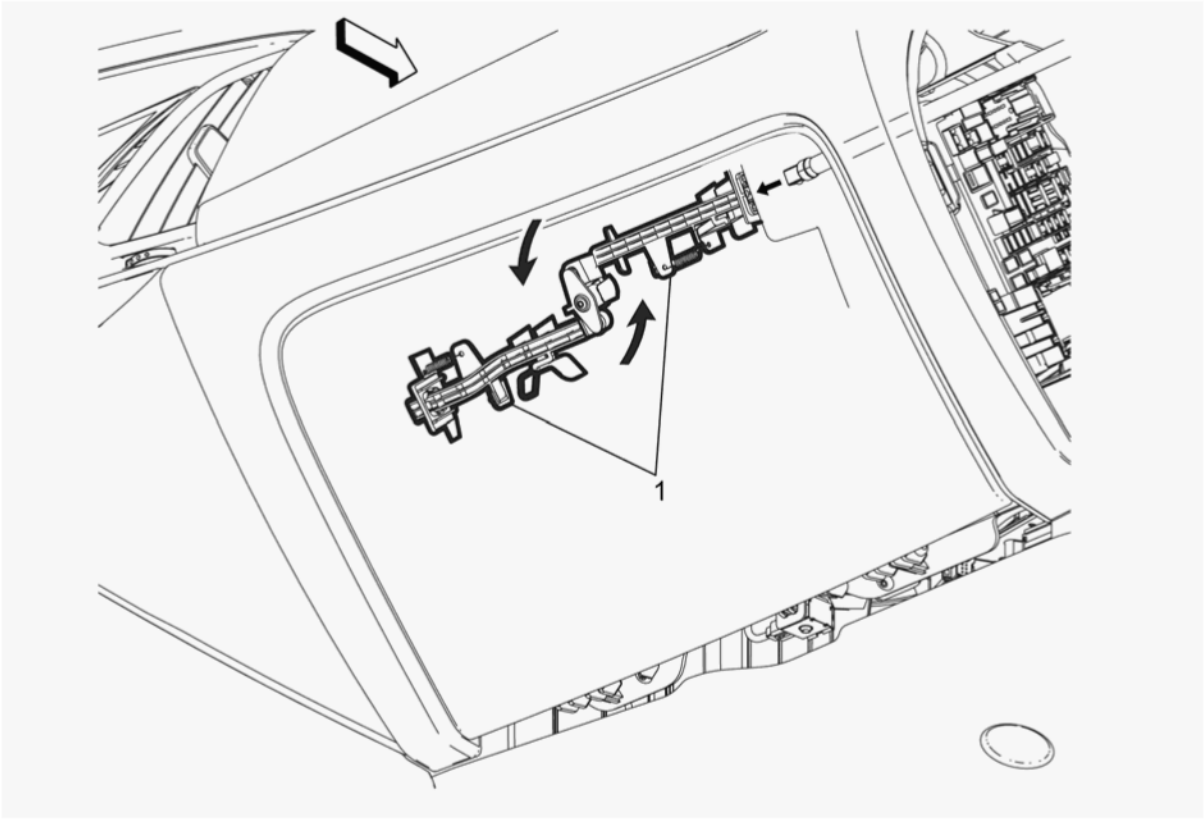


Fig. 3: Instrument Panel Compartment Door without Electrical Power (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

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 (Cadillac)**.	
1	Instrument Panel Compartment Door Latch **NOTE:**

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Callout	Component Name
	It is important that the tool used is blunt, such as a 1/4 inch drive socket extension or eraser end of a pencil. Sharper tools, such as a screwdriver, may damage the latch mechanism. **Procedure** In the event that either the actuator or the glove box button should become inoperative, the compartment door can be opened by inserting a small, blunt ended tool into the access hole to manually release the latch and open the door.

INSTRUMENT PANEL INSULATOR REPLACEMENT (CHEVROLET / GMC)

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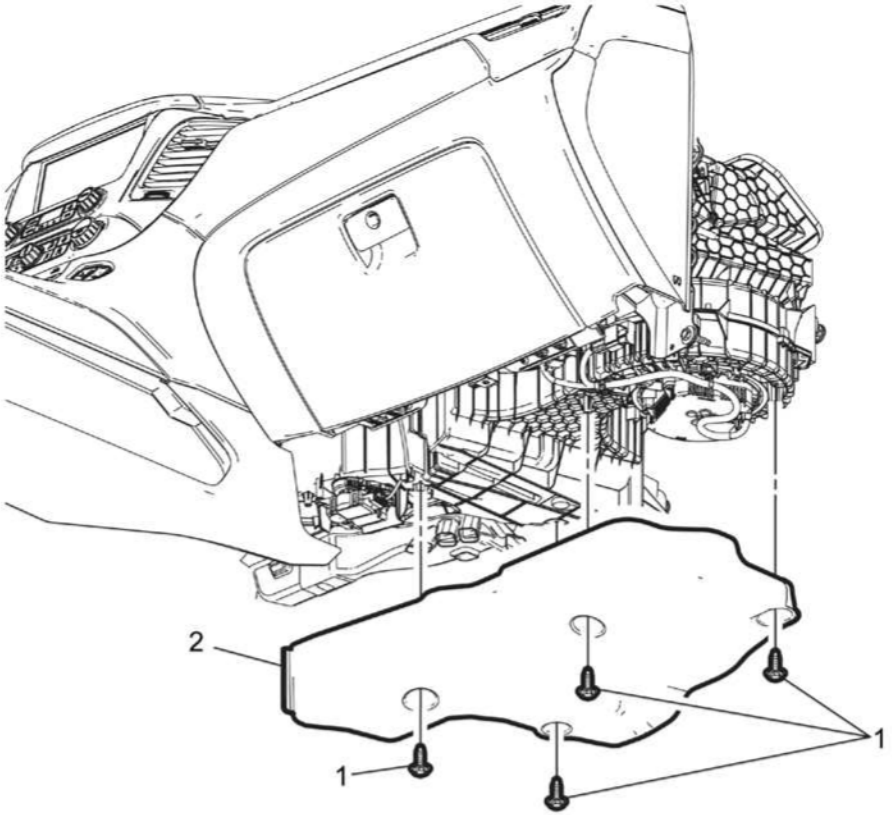


Fig. 4: Instrument Panel Insulator (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

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

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Callout	Component Name
2	Instrument Panel Insulator

INSTRUMENT PANEL INSULATOR REPLACEMENT (CADILLAC)

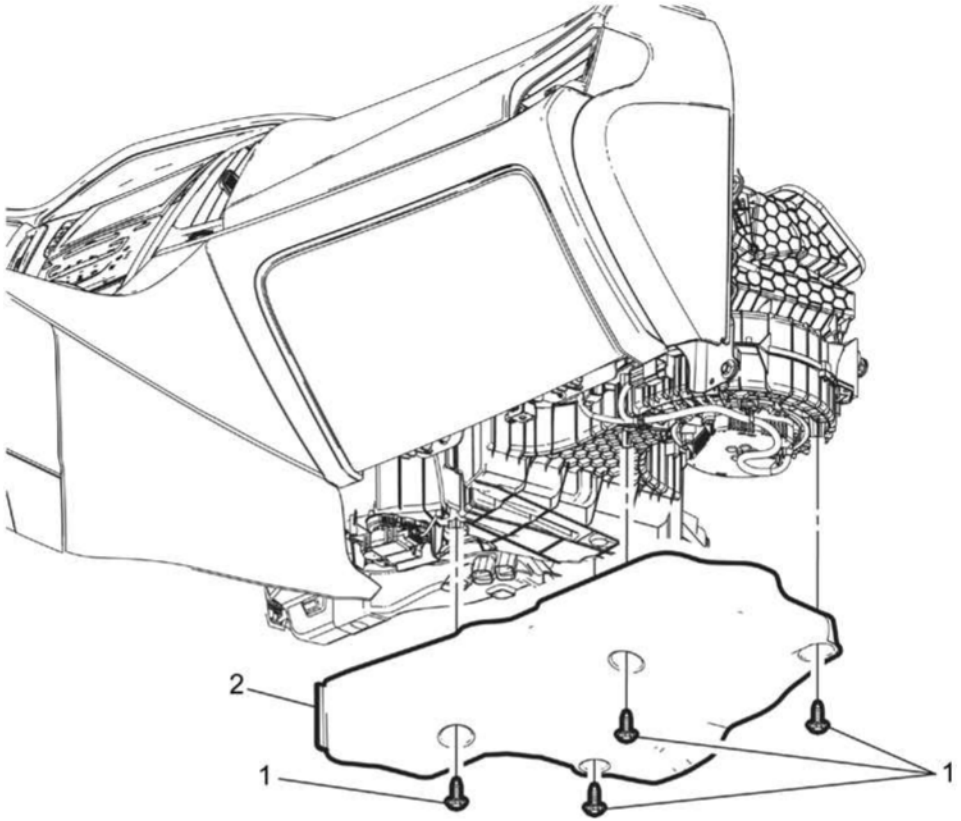


Fig. 5: Instrument Panel Insulator (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Insulator Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener**

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Callout	Component Name
	Caution . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Insulator

INSTRUMENT PANEL INSTRUMENT CLUSTER HOOD REPLACEMENT (CHEVROLET / GMC)

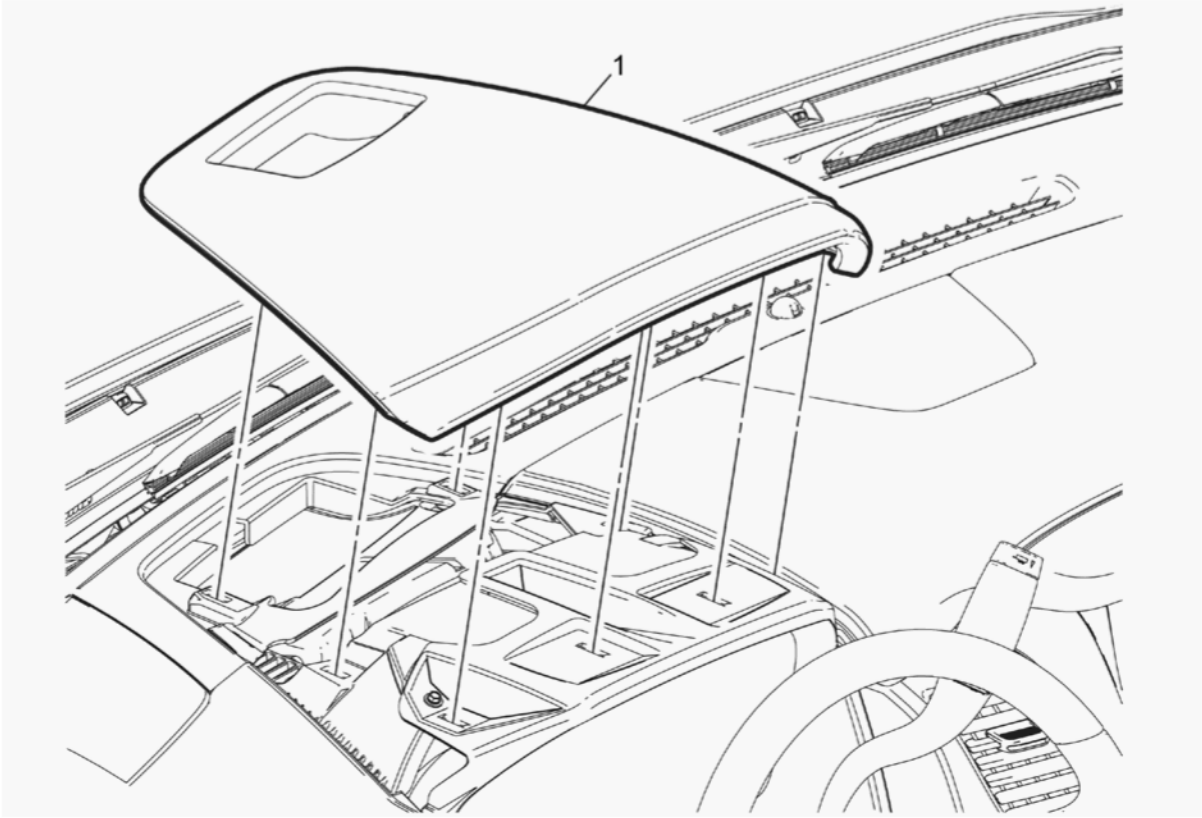


Fig. 6: Instrument Panel Instrument Cluster Hood (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name

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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 INSTRUMENT CLUSTER HOOD REPLACEMENT (CADILLAC)

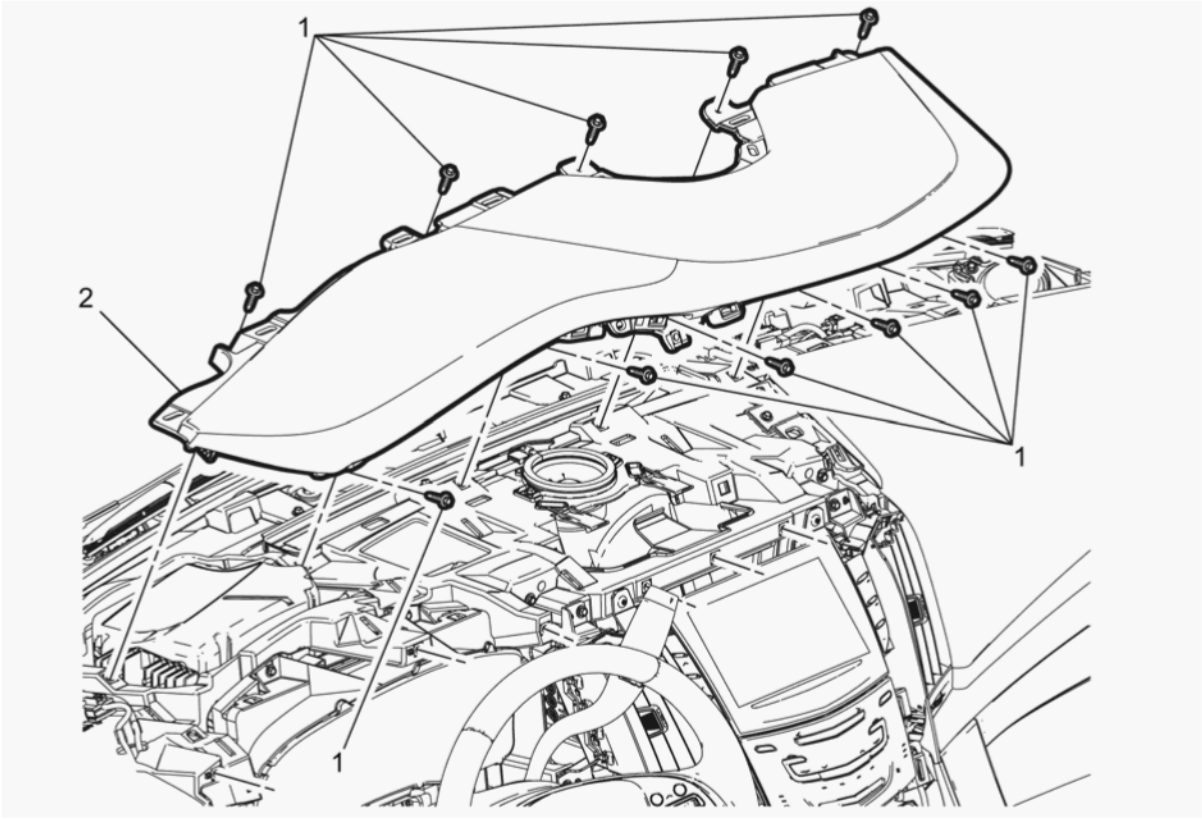


Fig. 7: Instrument Panel Instrument Cluster Hood (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the instrument panel extension. Refer to **Instrument Panel Extension Replacement (Cadillac)**.	

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Callout	Component Name
2. Remove the instrument panel cluster trim plate. Refer to **Instrument Panel Cluster Trim Plate Replacement (Cadillac)**. 3. Remove the instrument panel lower trim plate applique. Refer to **Instrument Panel Lower Trim Plate Applique Replacement (Cadillac)**.	
1	Instrument Panel Instrument Cluster Hood Bolt (Qty: 11) **CAUTION:** **Refer to Fastener Caution .** **Tighten** 2.5 N.m (22 lb in)
2	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 (CADILLAC)

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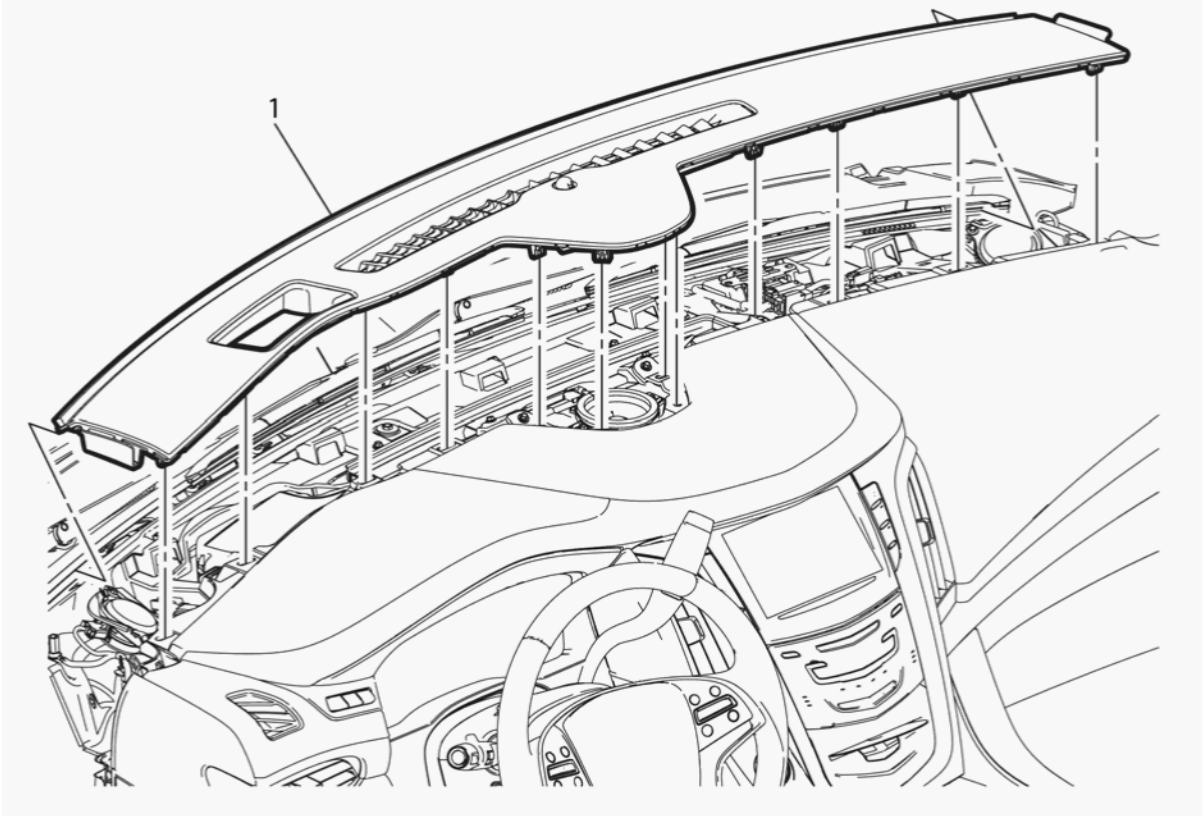


Fig. 8: Instrument Panel Extension (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the Left and right windshield garnish molding. Refer to **Windshield Garnish Molding Replacement (Left Side)** **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 carrier. 2. Disconnect the electrical connection.

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Callout	Component Name
	3. When replacing the instrument panel extension, transfer all necessary components.

INSTRUMENT PANEL KNEE BOLSTER REPLACEMENT (CHEVROLET / GMC)

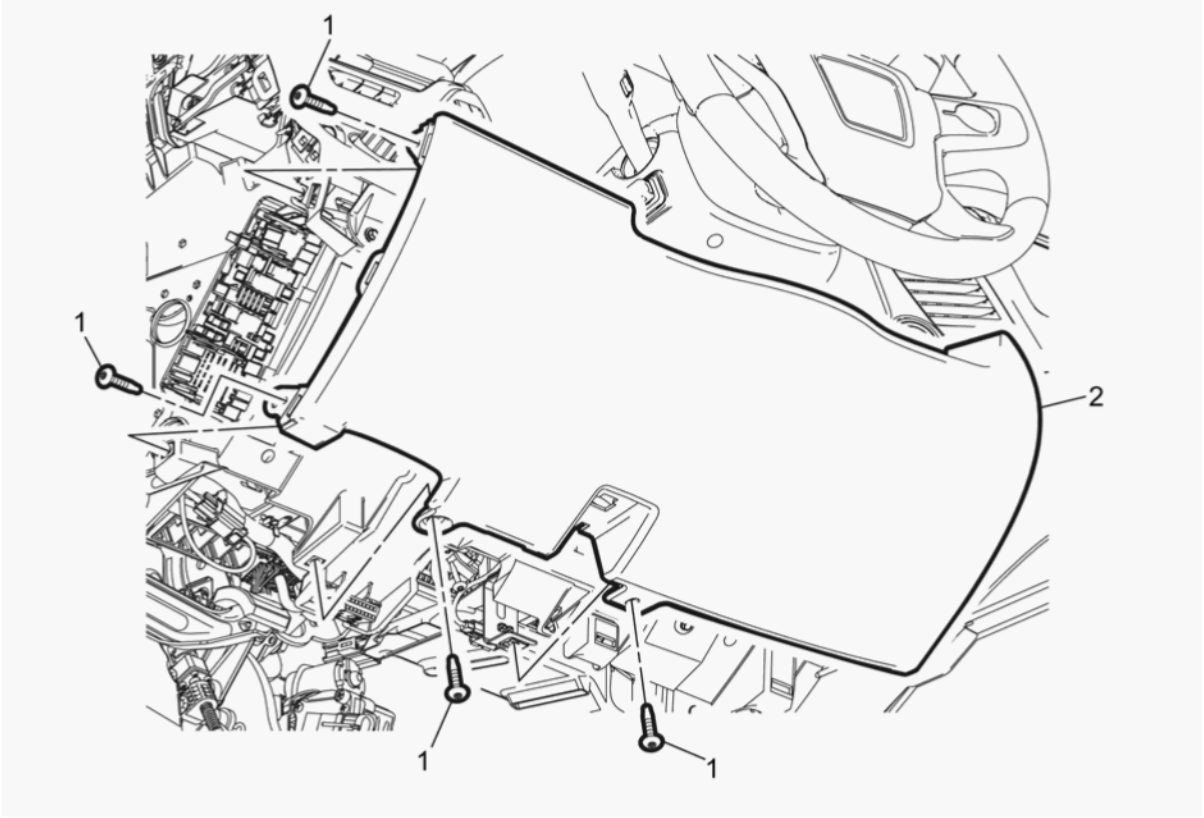


Fig. 9: Instrument Panel Knee Bolster (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

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 (Chevrolet / GMC)**.

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Callout	Component Name
1	Instrument Panel Knee Bolster Bolt (Qty: 4) **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 carrier. 2. Disconnect the hood release lever. Refer to **Hood Primary Latch Release Cable Replacement** .

INSTRUMENT PANEL KNEE BOLSTER REPLACEMENT (CADILLAC)

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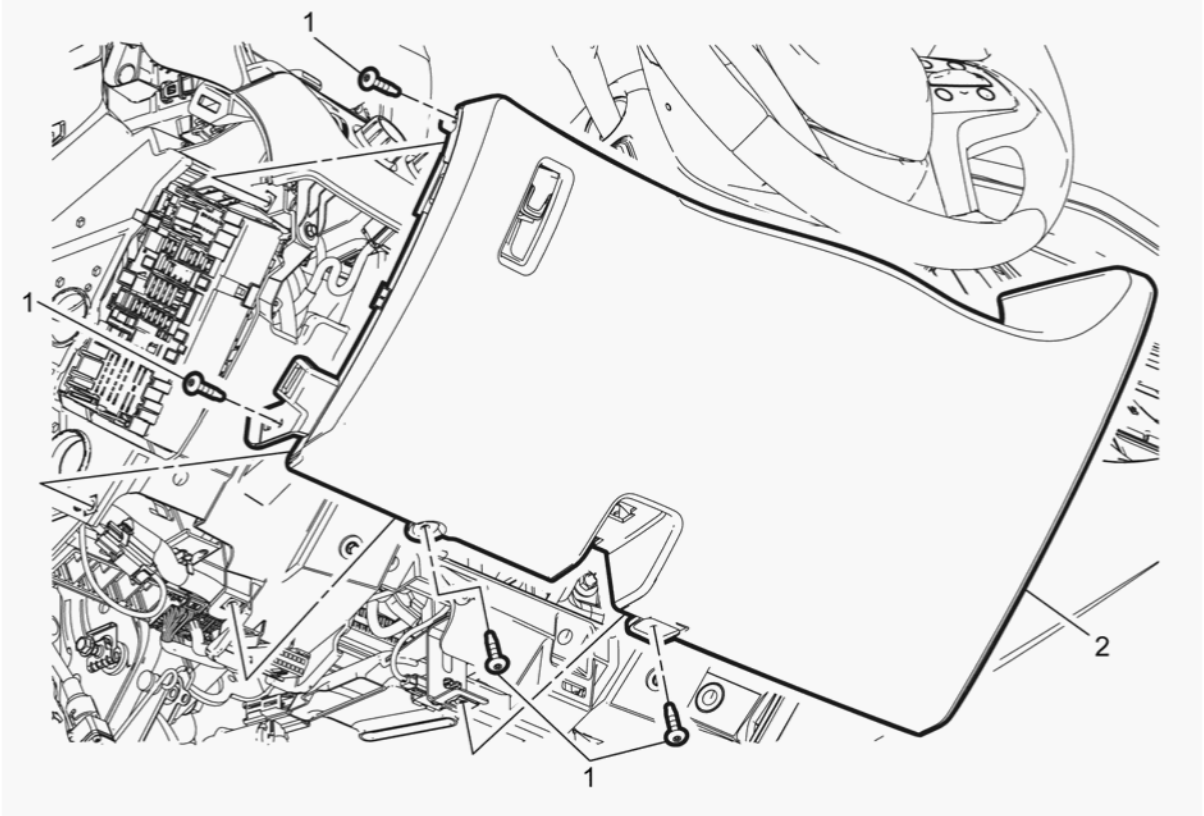


Fig. 10: Instrument Panel Knee Bolster (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

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 (Cadillac)**.	
1	Instrument Panel Knee Bolster Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener** **Caution** .

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Callout	Component Name
	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 carrier. 2. Disconnect the hood release lever. Refer to **Hood Primary Latch Release Cable Replacement** . 3. Disconnect the electrical connector. 4. Transfer components as necessary.

INSTRUMENT PANEL CENTER TRIM PLATE APPLIQUE REPLACEMENT (CADILLAC)

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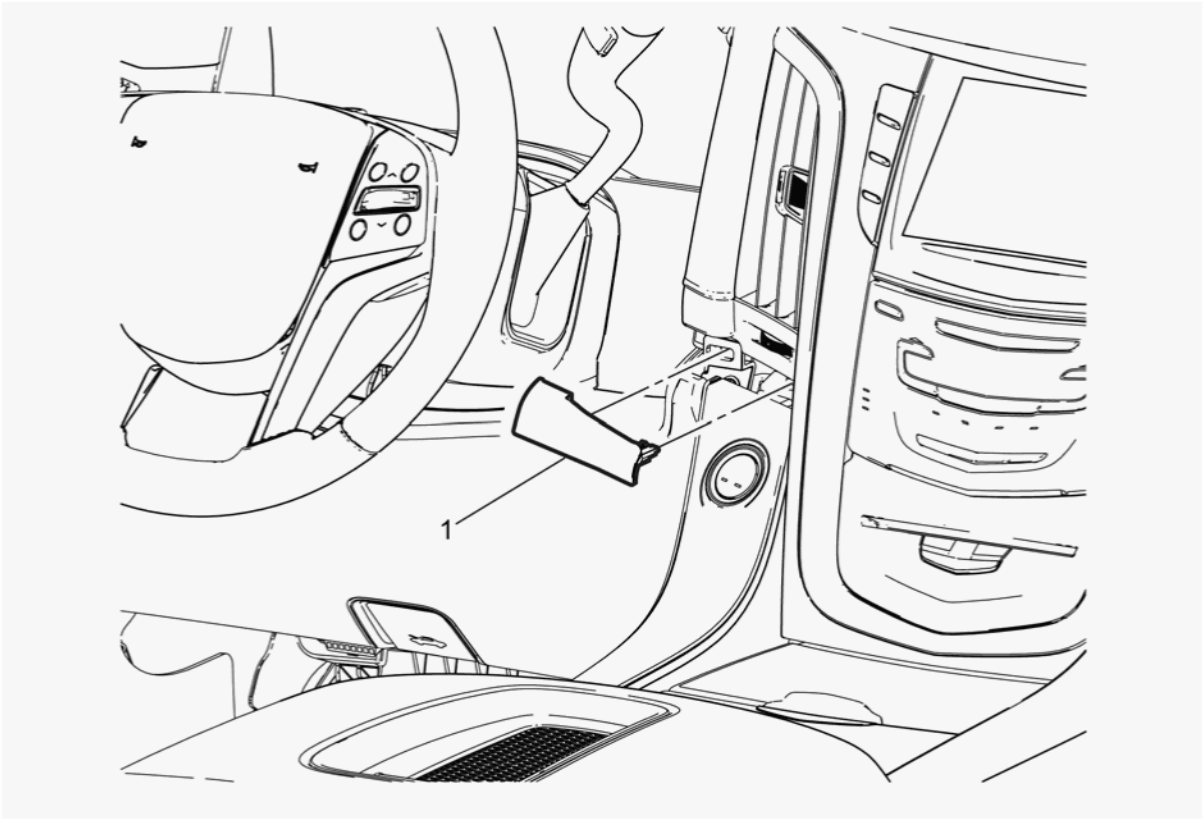


Fig. 11: Instrument Panel Center Trim Plate Applique (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Loosen Instrument Panel Lower Trim Plate Applique -**Instrument Panel Lower Trim Plate Applique Replacement (Cadillac)**	
1	Instrument Panel Center Trim Plate Applique **Procedure** Use a flat bladed plastic trim tool. **NOTE:** **Use care when removing**

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Callout	Component Name
	and installing the trim plate.

INSTRUMENT PANEL TRIM PLATE REPLACEMENT - RIGHT SIDE (CADILLAC)

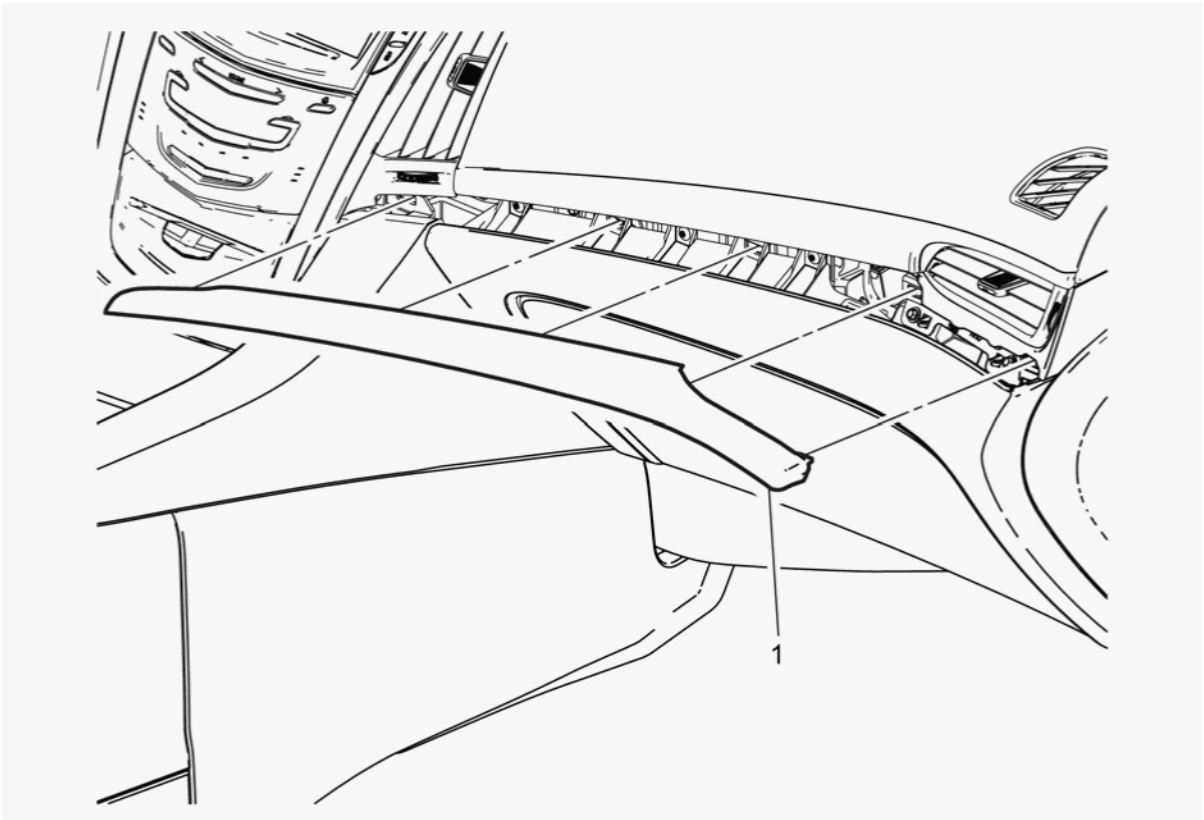


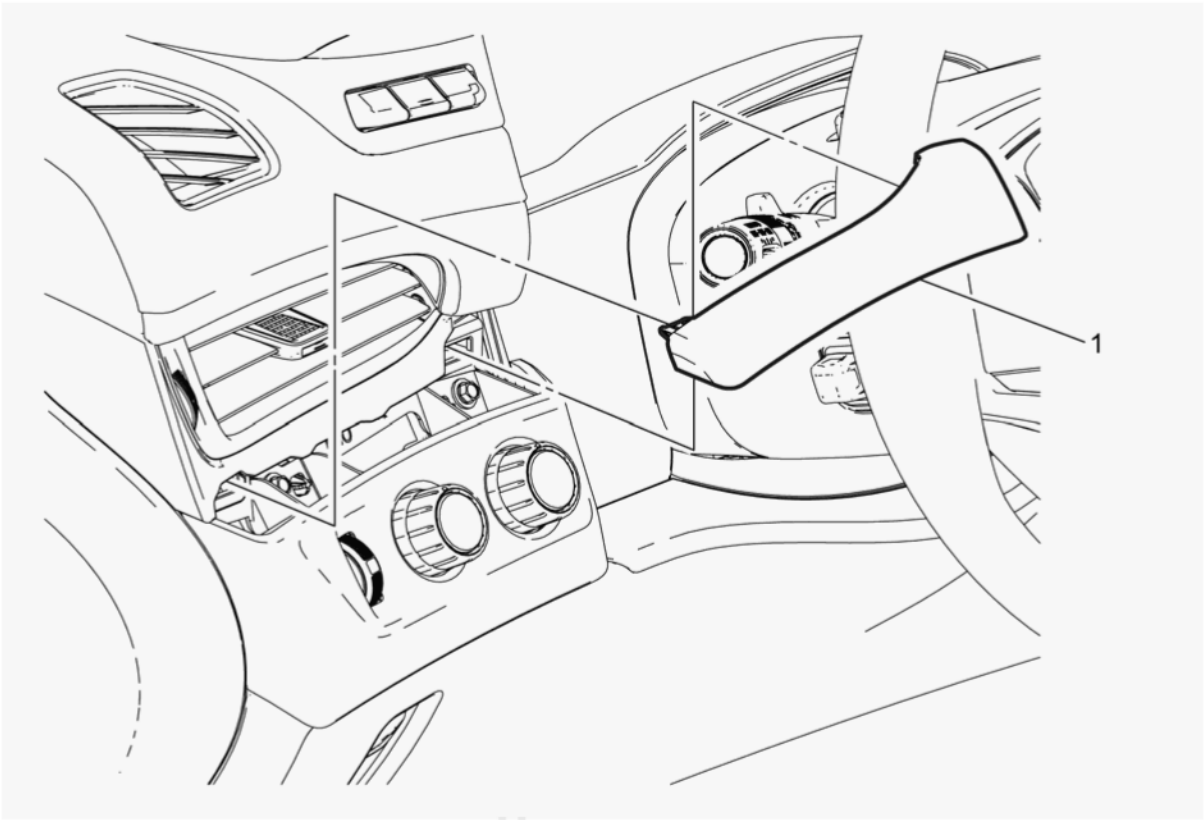
Fig. 12: Instrument Panel Trim Plate - Right Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Loosen Instrument Panel Lower Trim Plate Applique -**Instrument Panel Lower Trim Plate Applique Replacement (Cadillac)**	

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Callout	Component Name
1	Instrument Panel Trim Plate - Right Side **Procedure** Use a flat bladed plastic trim tool. **NOTE:** **Use care when removing and installing the trim plate.**

INSTRUMENT PANEL TRIM PLATE REPLACEMENT - LEFT SIDE (CADILLAC)



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Fig. 13: Instrument Panel Trim Plate - Left Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Trim Plate - Left Side **Procedure** Use a flat bladed plastic trim tool. **NOTE:** **Use care when removing and installing the trim plate.**

INSTRUMENT PANEL LOWER TRIM PLATE APPLIQUE REPLACEMENT (CADILLAC)

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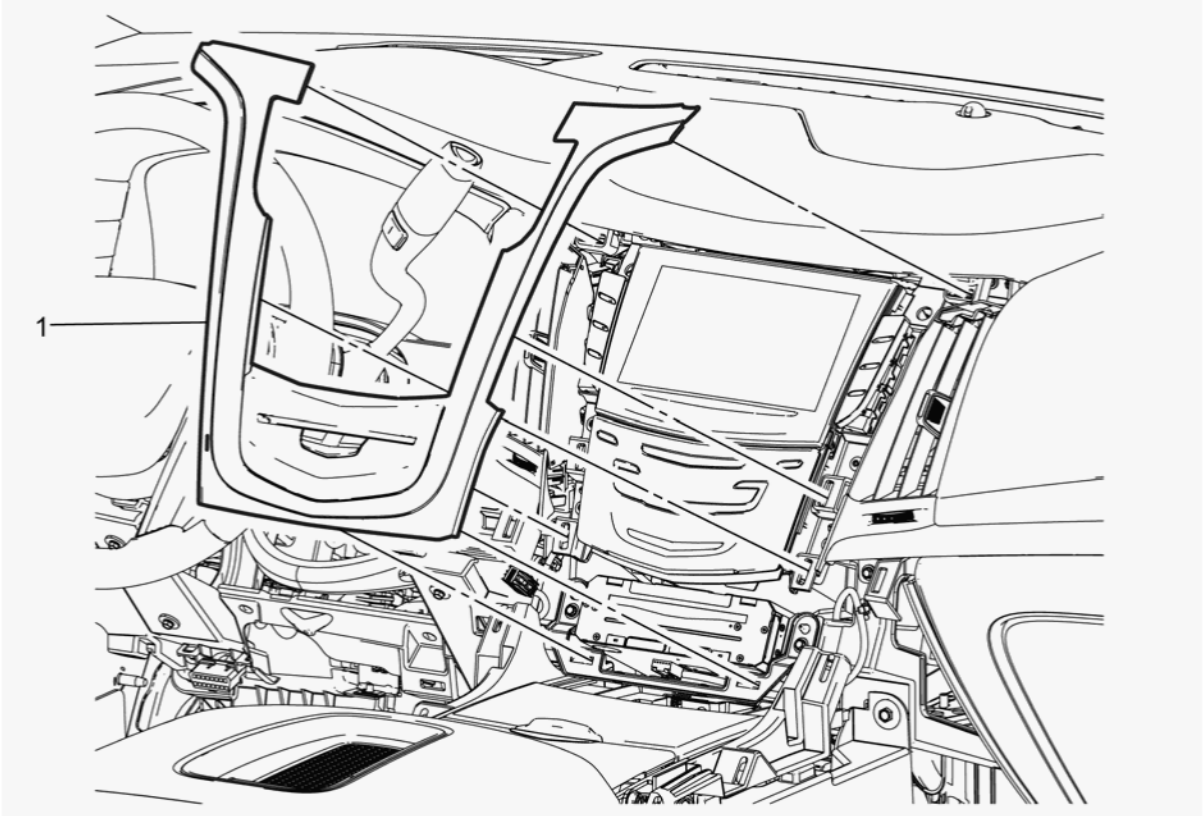


Fig. 14: Instrument Panel Lower Trim Plate Applique (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. **Instrument Panel Accessory Center Trim Plate Replacement (Cadillac)**. 2. **Front Floor Console Applique Replacement - Left Side (Cadillac)**. 3. **Front Floor Console Applique Replacement - Right Side (Cadillac)**.	
1	Instrument Panel Lower Trim Plate Applique **Procedure**

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Callout	Component Name
	1. Open the radio control compartment door. 2. Apply masking tape around the trim to prevent damage. 3. Use a flat bladed plastic trim tool in order to release the retainer clips securing the applique to the instrument carrier. 4. Disconnect electrical connections, if applicable. 5. Transfer components as necessary.

INSTRUMENT PANEL ACCESSORY CENTER TRIM PLATE REPLACEMENT (CHEVROLET / GMC)

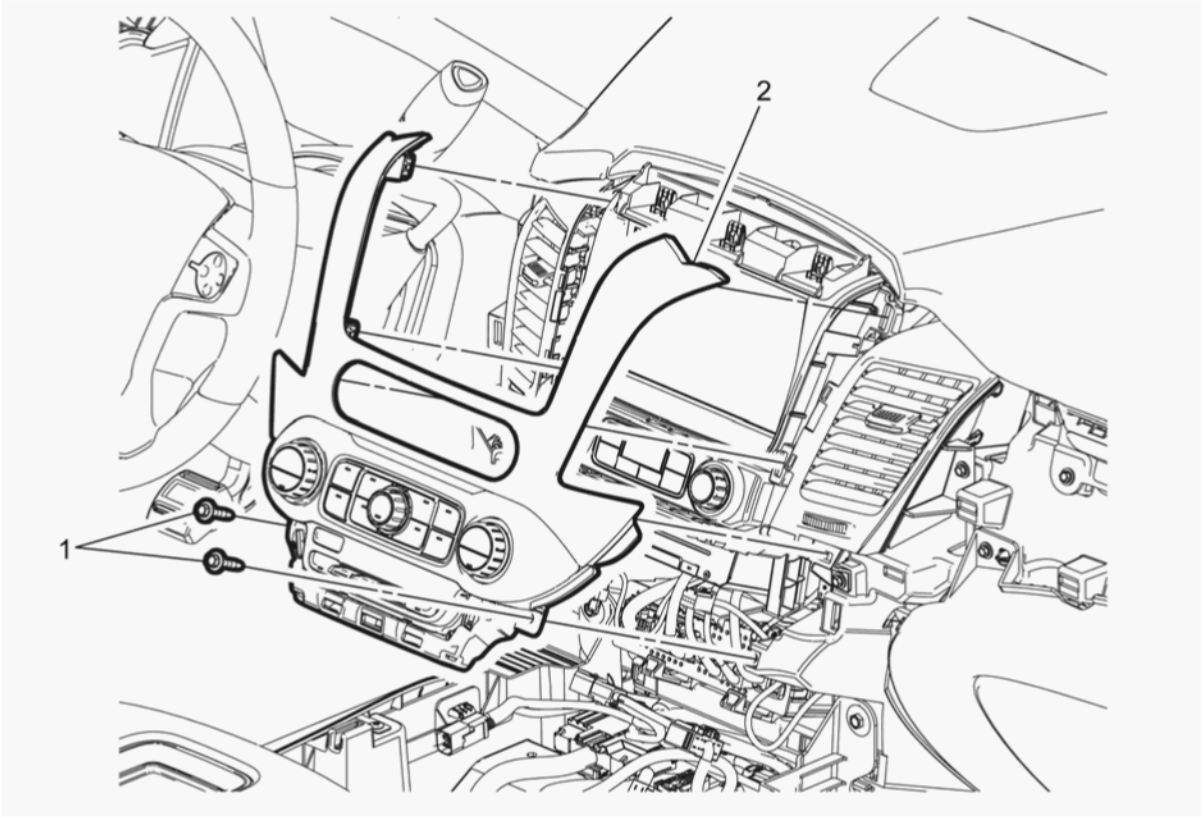


Fig. 15: Instrument Panel Accessory Center Trim Plate (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

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Callout	Component Name
Preliminary Procedures 1. Remove the instrument panel upper trim cover. Refer to **Instrument Panel Upper Trim Cover Replacement (Chevrolet / GMC)**. 2. Remove the instrument panel lower trim panel. Refer to **Instrument Panel Lower Trim Panel Replacement (Chevrolet / GMC)**. 3. Remove the instrument panel center trim pad. Refer to **Instrument Panel Center Trim Pad Replacement (Chevrolet / GMC)**.	
1	Instrument Panel Accessory Trim Center Plate Bolt (Qty: 2) **CAUTION:** **Refer to Fastener Caution .** **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Accessory Center Trim Plate **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim plate to the instrument panel carrier. 2. Disconnect the electrical connector. 3. Transfer components as necessary.

INSTRUMENT PANEL ACCESSORY CENTER TRIM PLATE REPLACEMENT (CADILLAC)

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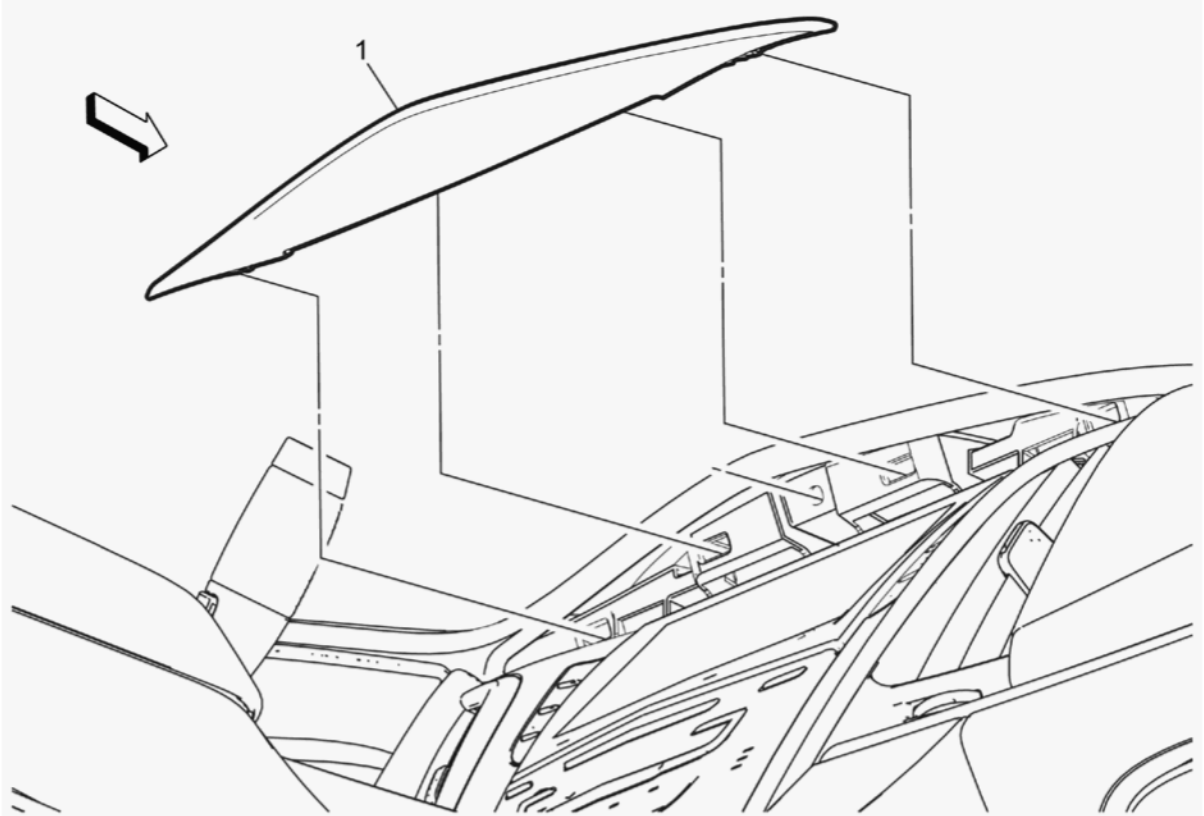


Fig. 16: Instrument Panel Accessory Center Trim Plate (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Accessory Center Trim Plate **Procedure** 1. Use a flat bladed plastic trim tool. 2. Start at the bottom edge careful not to apply the trim tool within 2" of either end. **NOTE:** **Use care when**

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Callout	Component Name
	removing and installing the trim plate.

INSTRUMENT PANEL CENTER TRIM PAD REPLACEMENT (CHEVROLET / GMC)

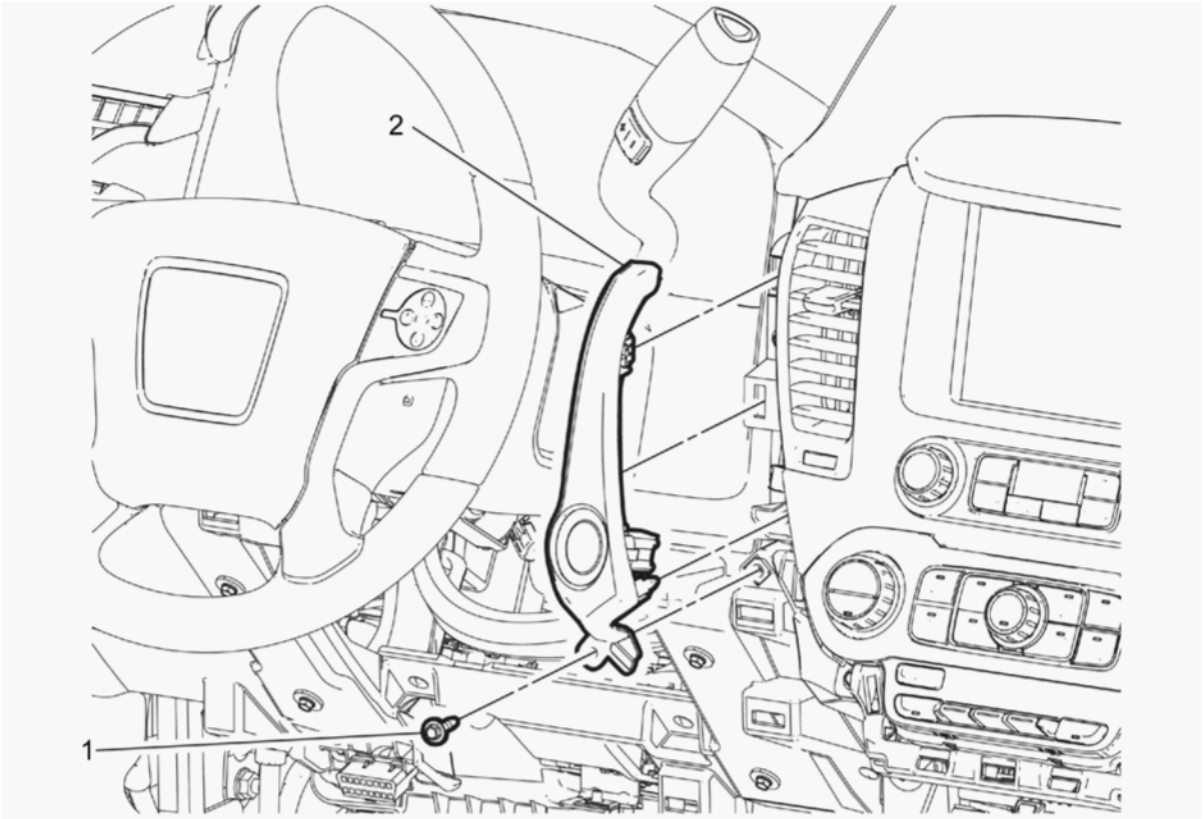


Fig. 17: Instrument Panel Center Trim Pad (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures	

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Callout	Component Name
1. Remove the front floor console trim plate, if equipped. Refer to **Front Floor Console Trim Plate Replacement (Chevrolet / GMC)**. 2. Remove the instrument panel center compartment, if equipped. Refer to **Instrument Panel Center Compartment Replacement (Chevrolet / GMC)**.	
1	Instrument Panel Trim Plate Bolt **CAUTION:** **Refer to Fastener Caution .** **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Center Trim Pad **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim pad to the instrument panel carrier. 2. Disconnect electrical connections, if applicable. 3. Transfer components as necessary.

INSTRUMENT PANEL CENTER TRIM PAD REPLACEMENT (CADILLAC)

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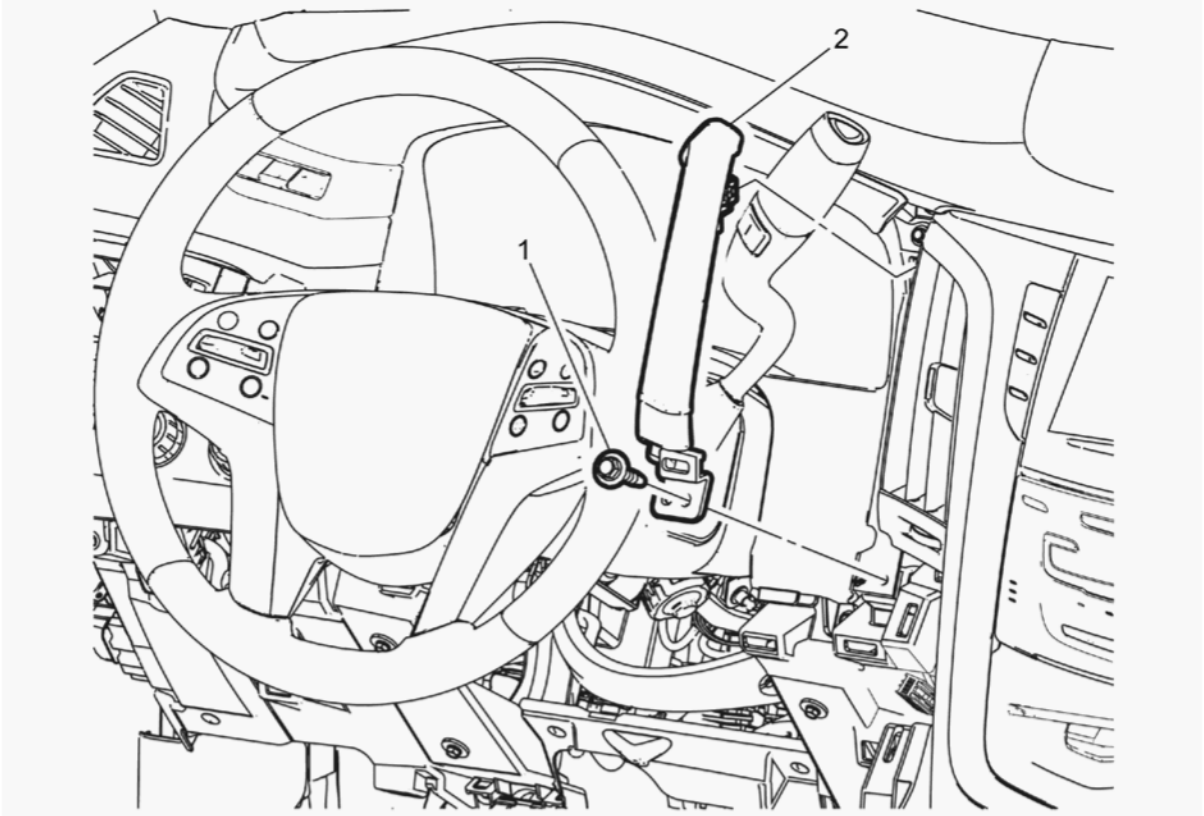


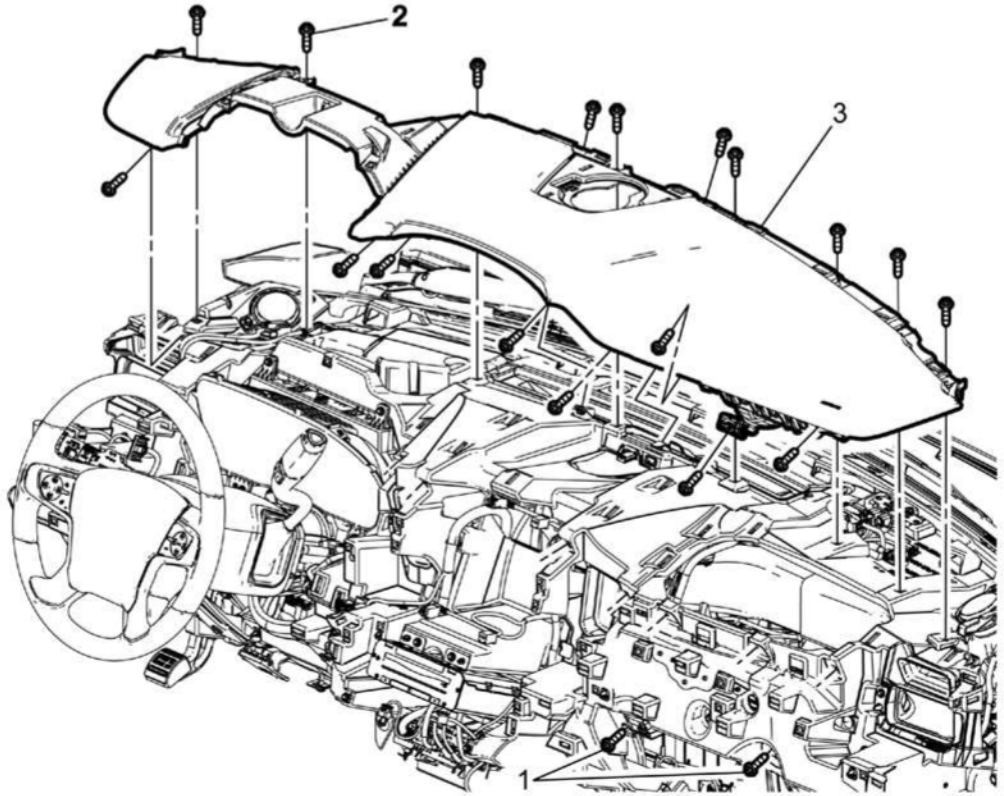
Fig. 18: Instrument Panel Center Trim Pad (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the instrument panel center trim plate applique. Refer to **Instrument Panel Center Trim Plate Applique Replacement (Cadillac)**. 2. Remove the left front floor console applique. Refer to **Front Floor Console Applique Replacement - Left Side (Cadillac)**.	
1	Instrument Panel Trim Plate Bolt **CAUTION:**

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Callout	Component Name
	Refer to **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Center Trim Pad **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim pad to the instrument panel carrier.

INSTRUMENT PANEL UPPER TRIM PANEL REPLACEMENT (CHEVROLET / GMC)



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

Callout	Component Name
Preliminary Procedures 1. Disable the SIR System. Refer to **SIR Disabling and Enabling** . 2. Remove the windshield defroster nozzle grille. Refer to **Windshield Defroster Nozzle Grille Replacement (Chevrolet / GMC)**. 3. Remove the instrument panel cluster trim plate. Refer to **Instrument Panel Cluster Trim Plate Replacement (Chevrolet / GMC)**. 4. Remove the radio control assembly. Refer to **Radio Control Assembly Replacement (Chevrolet / GMC)** . 5. Remove the radio front center speaker. Refer to **Radio Front Center Speaker Replacement (GMC)** . 6. Remove the instrument panel compartment. Refer to **Instrument Panel Compartment Replacement (Chevrolet / GMC)**.	
1	Instrument Panel Inflatable Restraint Module Bolt (Qty: 2) **CAUTION:** **Refer to Fastener Caution .** **Tighten** 9 N.m (80 lb in)
2	Instrument Panel Upper Bolt (Qty: 18) **CAUTION:** **Refer to Fastener Caution .** **Tighten** 2.5 N.m (22 lb in)

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Callout	Component Name
3	Instrument Panel Upper Trim Panel **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the panel to the instrument panel carrier. **NOTE:** **Some of the electrical connections may be forward in the vehicle close to the tie bar and may not be readily visible or easily reached (example: HMI Module connector). Use special care disconnecting the instrument panel inflator module connector. Unclip the airbag connector from the tie**

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Callout	Component Name
	bar, disengage the CPA and separate the connector. 2. Disconnect the electrical connector. 3. Transfer components as necessary.

INSTRUMENT PANEL UPPER TRIM PANEL BRACKET REPLACEMENT (CADILLAC)

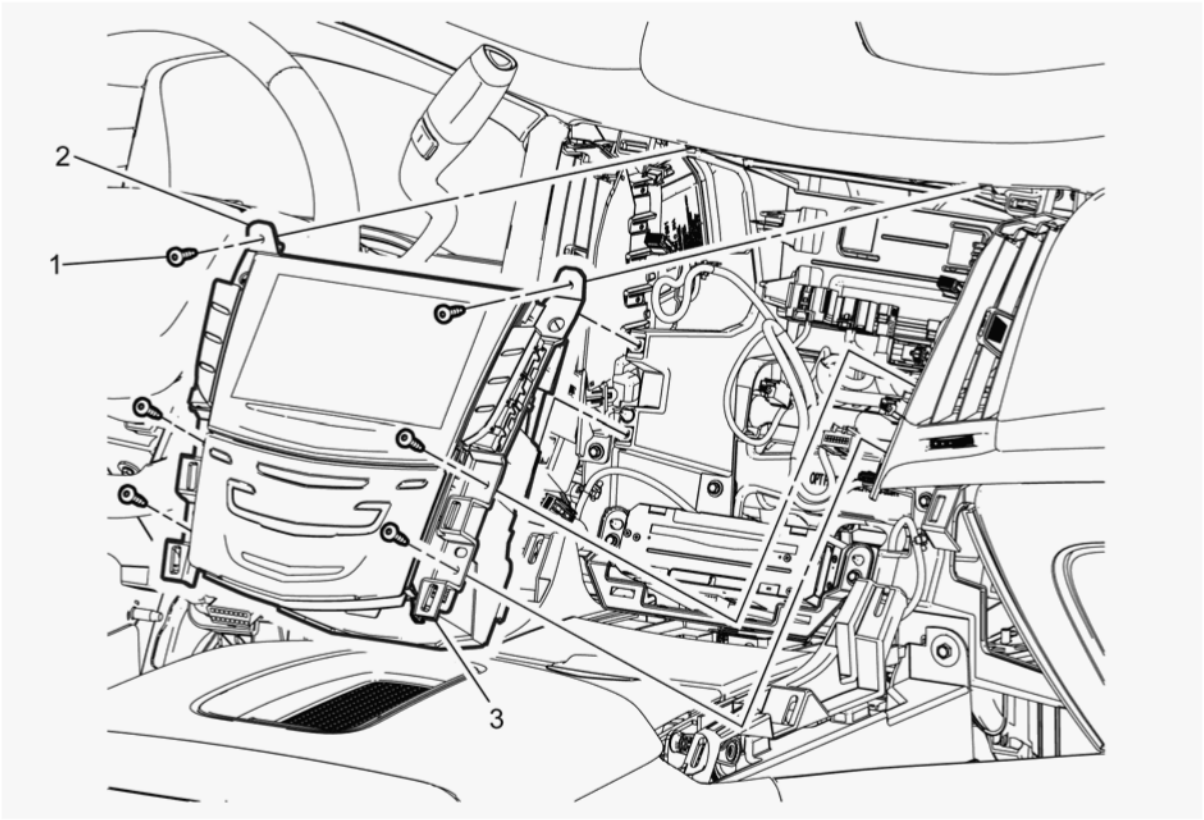


Fig. 20: Instrument Panel Upper Trim Panel Bracket

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Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the instrument panel lower trim plate applique. Refer to **Instrument Panel Lower Trim Plate Applique Replacement (Cadillac)**.	
1	Instrument Panel Center Support Bracket Bolt (Qty: 6) **CAUTION:** **Refer to** **Fastener** **Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Upper Trim Panel Bracket - Left **Procedures** 1. Disconnect all electrical connectors. 2. Remove the Radio Control Assembly. Refer to **Radio Control Assembly Replacement (Cadillac)** . 3. Transfer components as necessary.
3	Instrument Panel Upper Trim Panel Bracket - Right **Procedure** Transfer components as necessary.

INSTRUMENT PANEL UPPER TRIM PANEL REPLACEMENT - RIGHT SIDE (CADILLAC)

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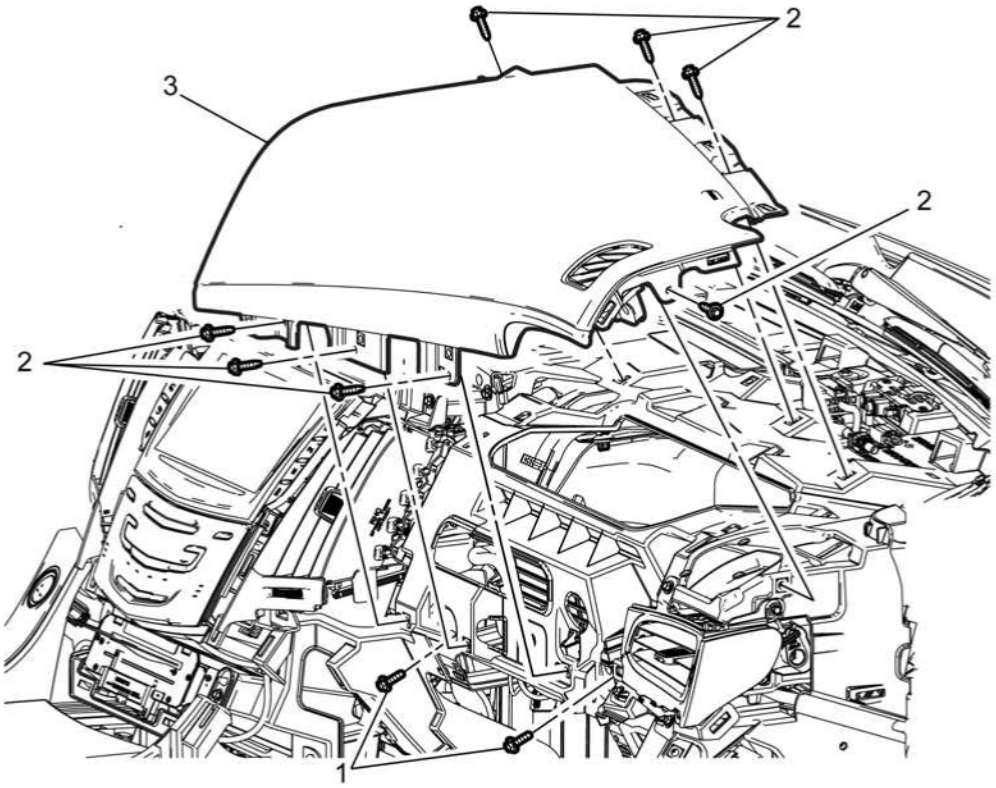


Fig. 21: Instrument Panel Upper Trim Panel - Right Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Disable the SIR System. Refer to **SIR Disabling and Enabling** . 2. Remove the instrument panel instrument cluster hood. Refer to **Instrument Panel Instrument Cluster Hood Replacement (Cadillac)**. 3. Remove the instrument panel lower trim panel. Refer to **Instrument Panel Lower Trim Panel Replacement (Cadillac)**	
1	Instrument Panel Inflatable Restraint Module Bolt (Qty: 2) **CAUTION:**

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Callout	Component Name
	Refer to Fastener Caution . **Tighten** 9 N.m (80 lb in)
2	Instrument Panel Upper Bolt (Qty: 7) **CAUTION:** **Refer to** Fastener Caution . **Tighten** 2.5 N.m (22 lb in)
3	Instrument Panel Upper Trim Panel **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the panel to the instrument panel carrier. 2. Disconnect the electrical connector. 3. Transfer components as necessary.

INSTRUMENT PANEL UPPER TRIM PANEL REPLACEMENT - LEFT SIDE (CADILLAC)

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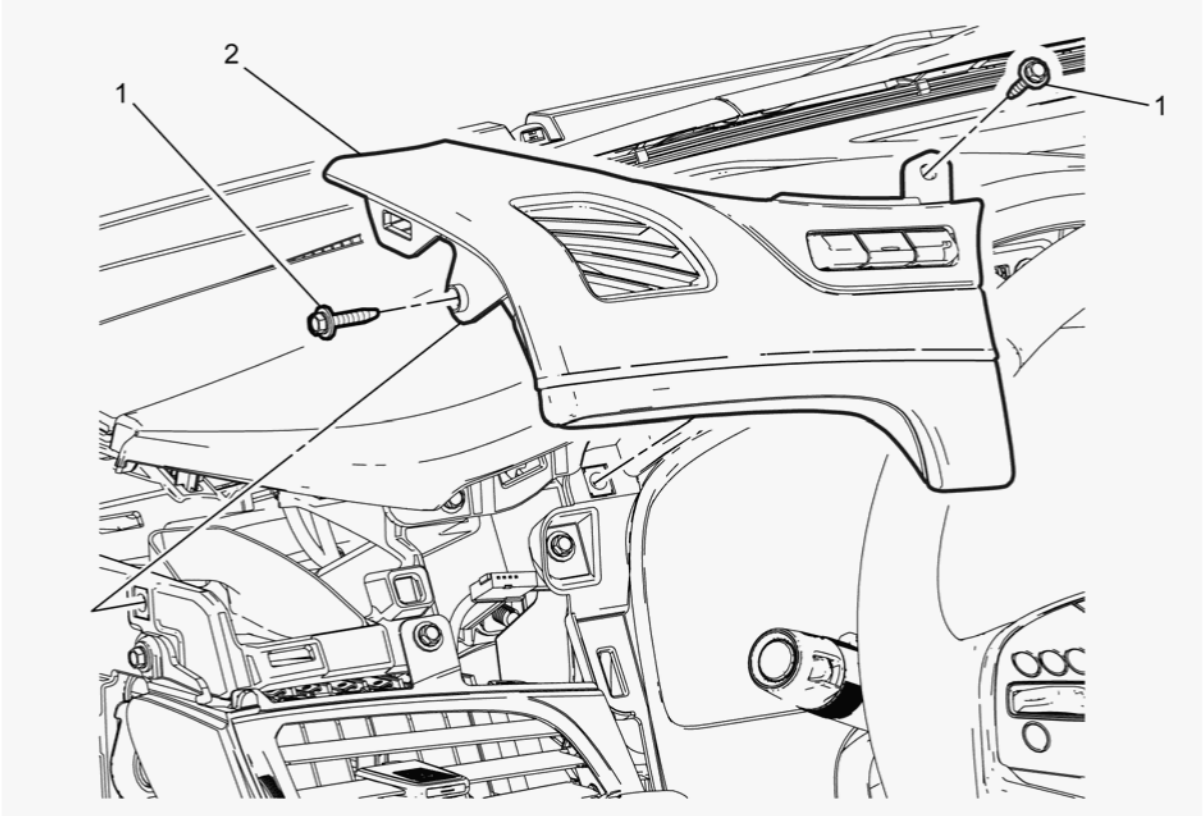


Fig. 22: Instrument Panel Upper Trim Panel - Left Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the instrument panel cluster upper trim plate. Refer to **Instrument Panel Cluster Upper Trim Plate Replacement (Cadillac)**. 2. Remove the left instrument panel fuse block access hole cover. Refer to **Instrument Panel Fuse Block Access Hole Cover Replacement (Cadillac)**	
1	Instrument Panel Upper Bolt (Qty: 2) **CAUTION:**

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Callout	Component Name
	Refer to Fastener Caution . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Upper Trim Panel **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the panel to the instrument panel carrier. 2. Disconnect the electrical connector. 3. Transfer components as necessary.

INSTRUMENT PANEL ACCESSORY BEZEL REPLACEMENT (CHEVROLET / GMC)

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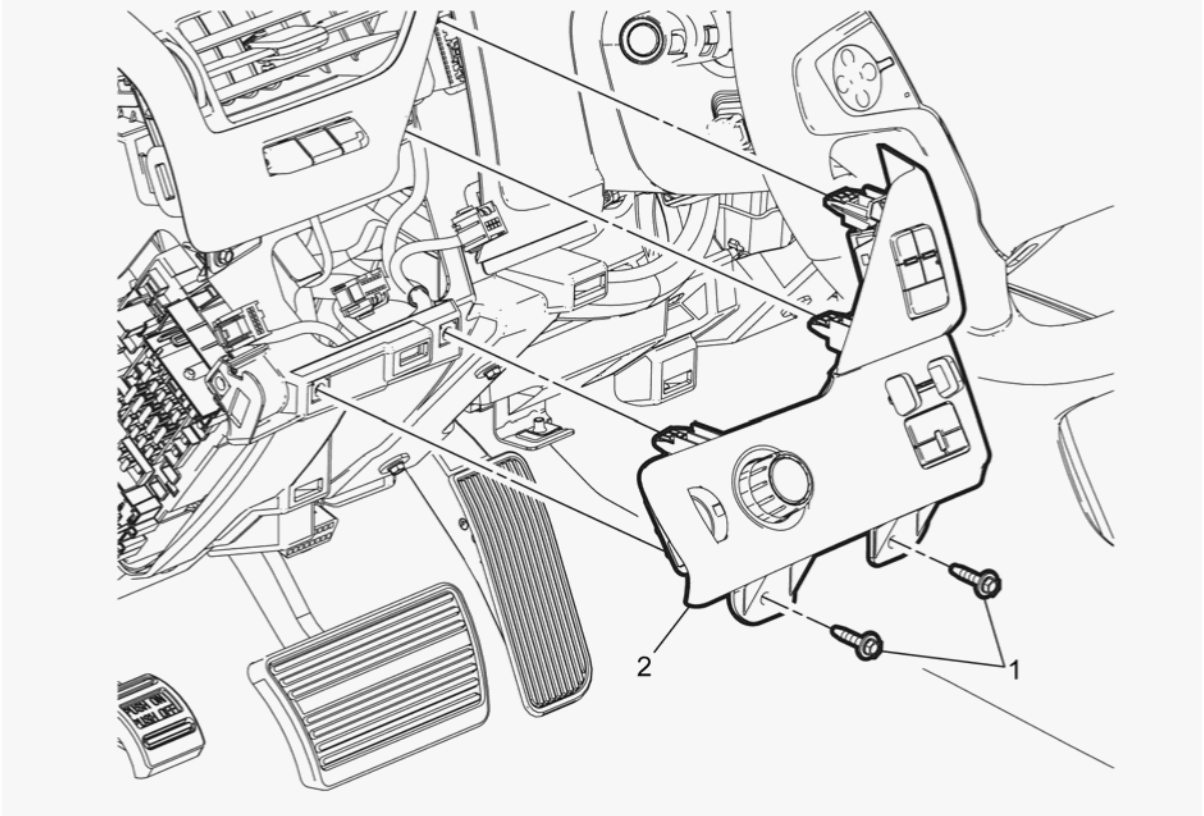


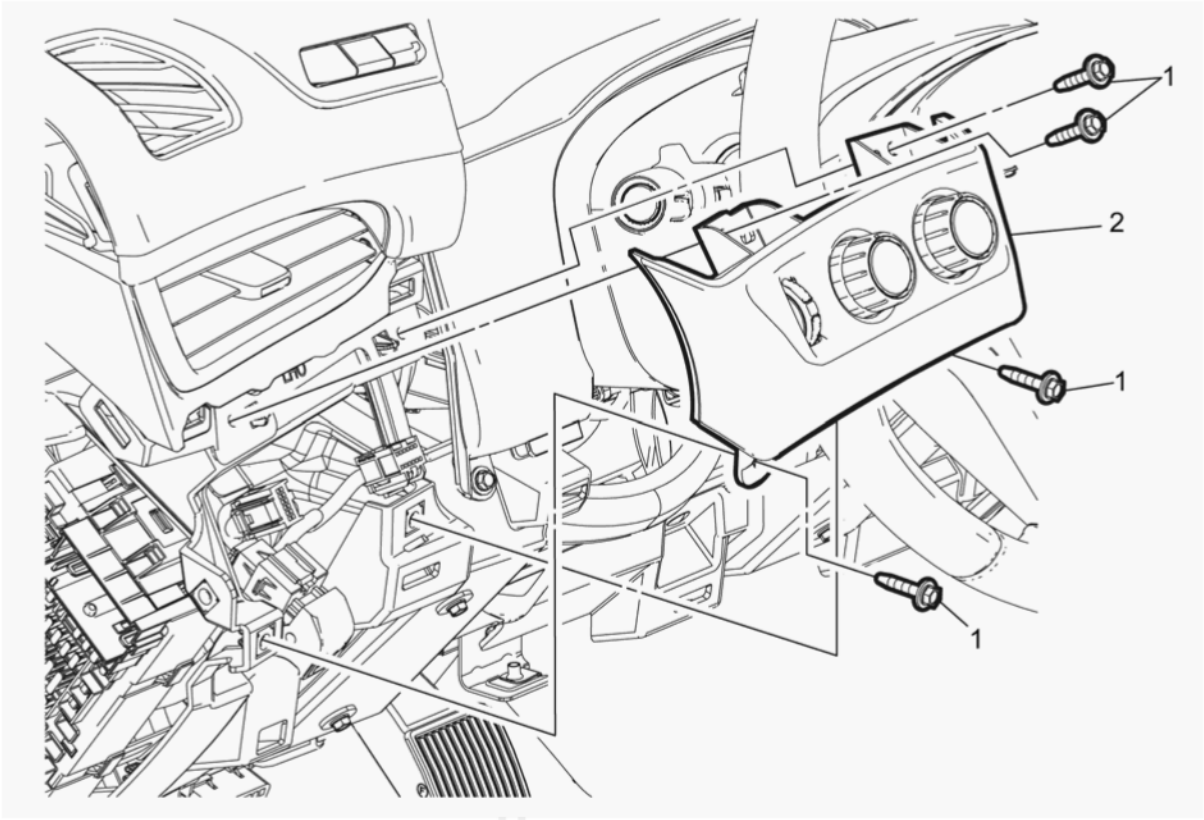
Fig. 23: Instrument Panel Accessory Bezel (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the instrument panel knee bolster. Refer to **Instrument Panel Knee Bolster Replacement (Chevrolet / GMC)**.	
1	Instrument Panel Accessory Bezel Bolt (Qty: 2) **CAUTION:** **Refer to Fastener Caution .**

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Callout	Component Name
	Tighten 2.5 N.m (22 lb in)
2	Instrument Panel Accessory Bezel **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the bezel to the instrument panel carrier. 2. Disconnect the electrical connector. 3. Transfer components as necessary.

INSTRUMENT PANEL ACCESSORY BEZEL REPLACEMENT (CADILLAC)



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Fig. 24: Instrument Panel Accessory Bezel (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Instrument Panel Knee Bolster Replacement (Cadillac). 2. Instrument Panel Trim Plate Replacement - Left Side (Cadillac).	
1	Instrument Panel Accessory Bezel Bolt (Qty: 4) **CAUTION:** **Refer to Fastener Caution .** **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Accessory Bezel **Procedure** 1. Disconnect the electrical connector. 2. Transfer components as necessary.

INSTRUMENT PANEL FUSE BLOCK ACCESS HOLE COVER REPLACEMENT (CHEVROLET / GMC)

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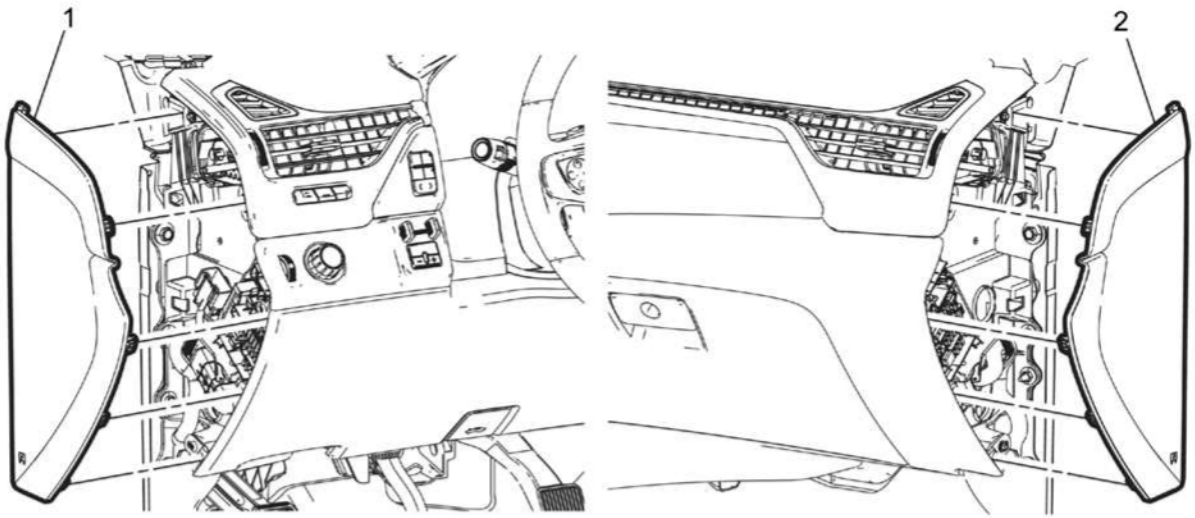


Fig. 25: Instrument Panel Fuse Block Access Hole Cover (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

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 FUSE BLOCK ACCESS HOLE COVER REPLACEMENT (CADILLAC)

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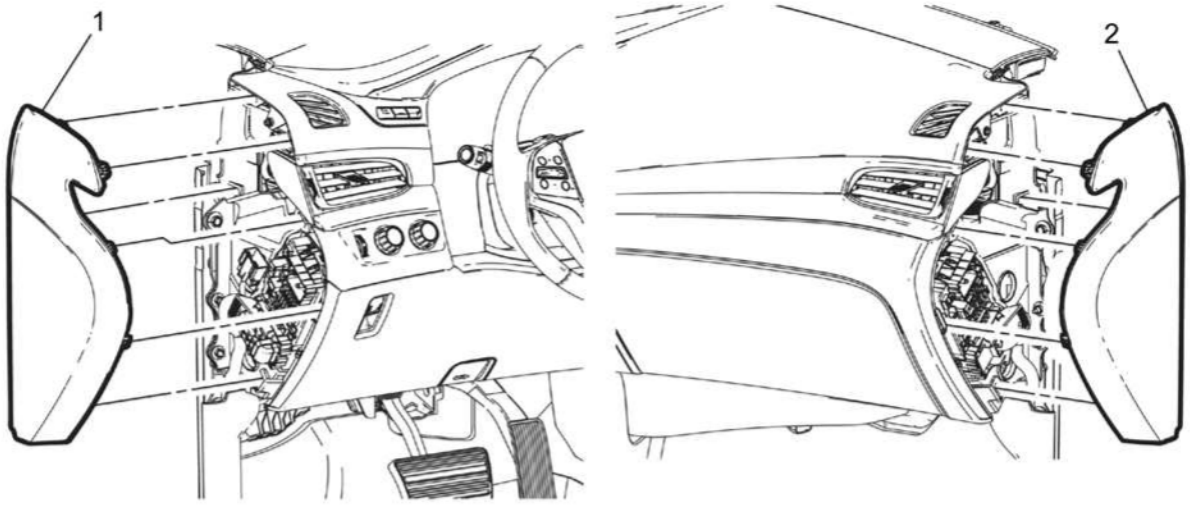


Fig. 26: Instrument Panel Fuse Block Access Hole Cover (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

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 (CHEVROLET / GMC)

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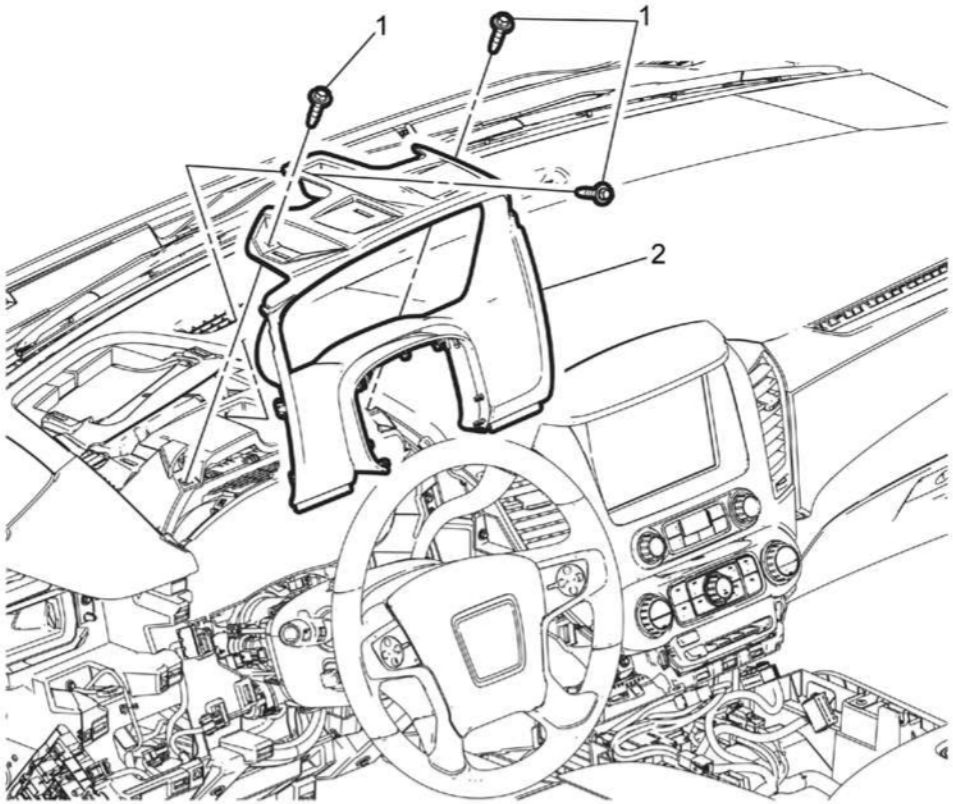


Fig. 27: Instrument Panel Cluster Trim Plate (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the instrument panel instrument cluster hood. Refer to **Instrument Panel Instrument Cluster Hood Replacement (Chevrolet / GMC)**. 2. Remove the instrument panel center trim pad. Refer to **Instrument Panel Center Trim Pad Replacement (Chevrolet / GMC)**. 3. Remove the left instrument panel outer air outlet. Refer to **Instrument Panel Outer Air Outlet Replacement - Left Side (Chevrolet / GMC)** .	
1	Instrument Panel Cluster Trim Plate Bolt (Qty: 3)

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Callout	Component Name
	CAUTION: **Refer to** **Fastener** **Caution .** Tighten 2.5 N.m (22 lb in)
2	Instrument Panel Cluster Trim Plate **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim plate to the instrument panel carrier. 2. Use a flat bladed plastic trim tool in order to release the tabs securing the closeout cover to the steering column shroud.

INSTRUMENT PANEL CLUSTER TRIM PLATE REPLACEMENT (CADILLAC)

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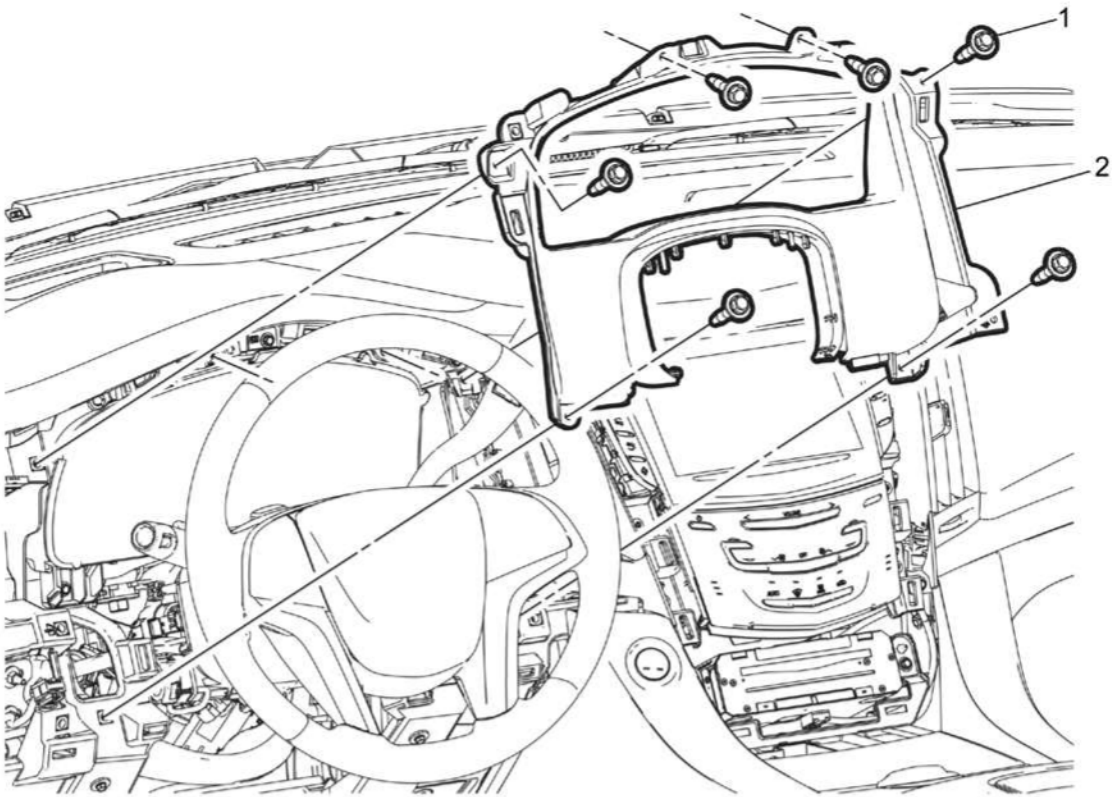


Fig. 28: Instrument Panel Cluster Trim Plate (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the instrument panel center trim pad. Refer to **Instrument Panel Center Trim Pad Replacement (Cadillac)**. 2. Remove the left instrument panel upper trim panel. Refer to **Instrument Panel Upper Trim Panel Replacement - Left Side (Cadillac)**. 3. Remove the instrument panel accessory bezel. Refer to **Instrument Panel Accessory Bezel Replacement (Cadillac)**.	
1	Instrument Panel Cluster Trim Plate Bolt (Qty: 6) **CAUTION:**

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Callout	Component Name
	Refer to Fastener Caution . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Cluster Trim Plate **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the trim plate to the instrument panel carrier. 2. Use a flat bladed plastic trim tool in order to release the tabs securing the closeout cover to the steering column shroud.

INSTRUMENT PANEL CLUSTER UPPER TRIM PLATE REPLACEMENT (CADILLAC)

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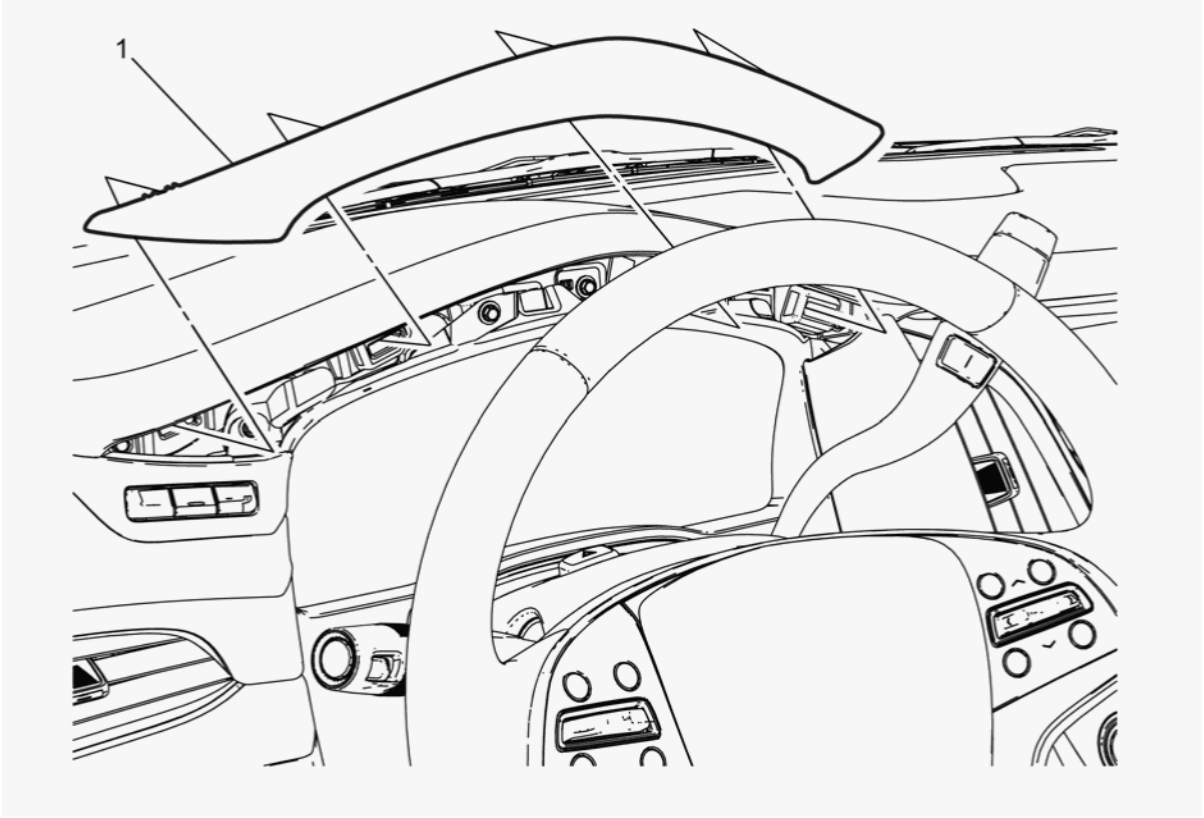


Fig. 29: Instrument Panel Cluster Upper Trim Plate (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Cluster Upper Trim Plate **Procedure** Use a flat bladed plastic trim tool to aid in the removal of the plate from the instrument panel assembly.

INSTRUMENT PANEL LOWER TRIM PANEL REPLACEMENT (CHEVROLET / GMC)

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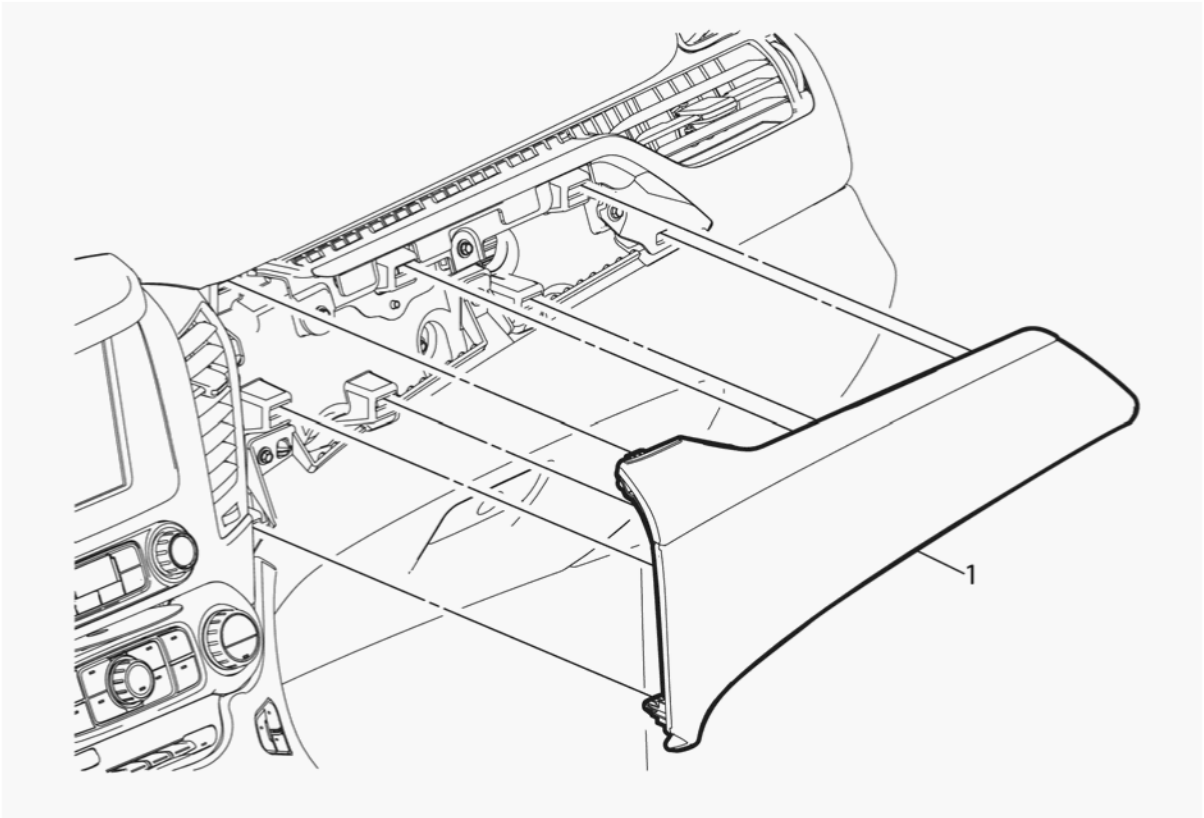


Fig. 30: Instrument Panel Lower Trim Panel (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Lower Trim Panel **Procedure** Use a flat bladed plastic trim tool to aid in the removal of the panel from the instrument panel assembly.

INSTRUMENT PANEL LOWER TRIM PANEL REPLACEMENT (CADILLAC)

Removal Procedure

1. Remove the right instrument panel trim plate. Refer to **Instrument Panel Trim Plate Replacement - Right Side (Cadillac)**.
2. Remove the instrument panel compartment. Refer to **Instrument Panel Compartment Replacement (Cadillac)**.

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3. Remove the right instrument panel fuse block access hole cover. Refer to **Instrument Panel Fuse Block Access Hole Cover Replacement (Cadillac)**.
4. Remove the right front floor console applique. Refer to **Front Floor Console Applique Replacement - Right Side (Cadillac)**.

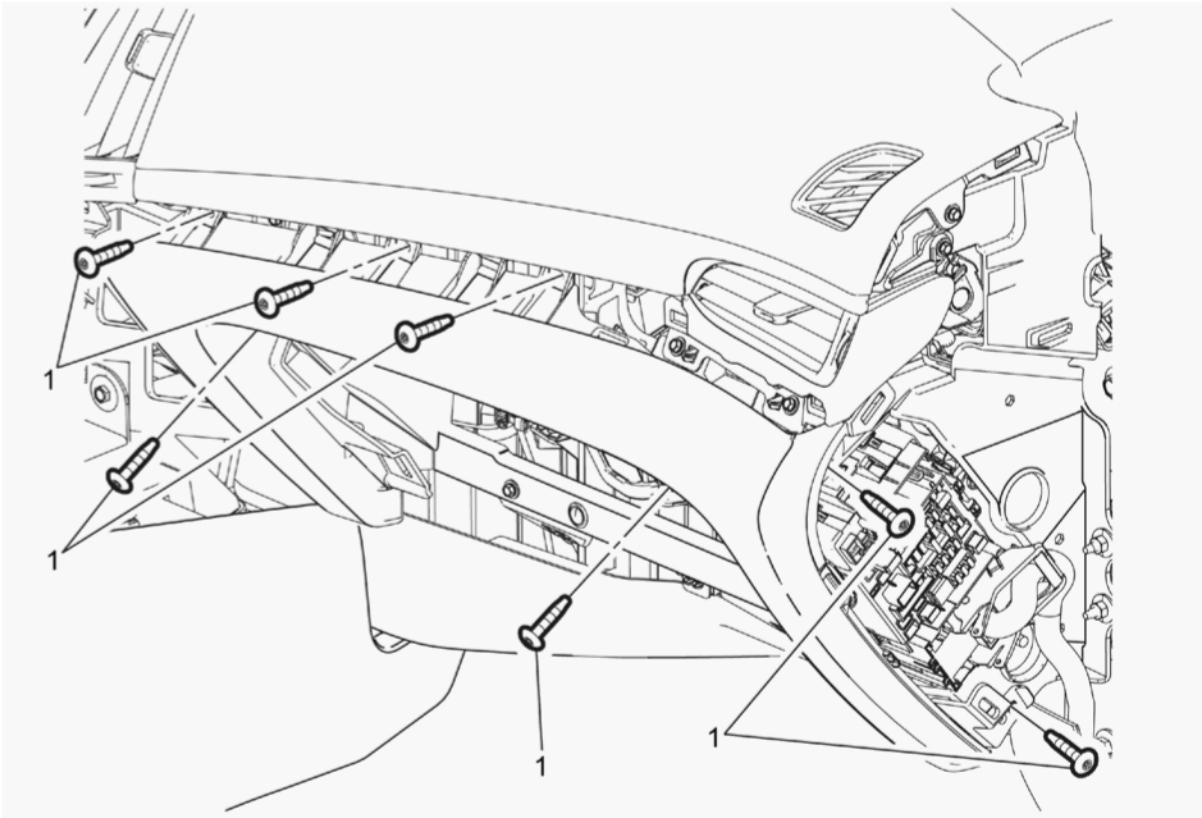


Fig. 31: Bolts And Instrument Panel Lower Trim Panel
Courtesy of GENERAL MOTORS COMPANY

5. Remove the bolts (1) securing the instrument panel lower trim panel to the instrument carrier.

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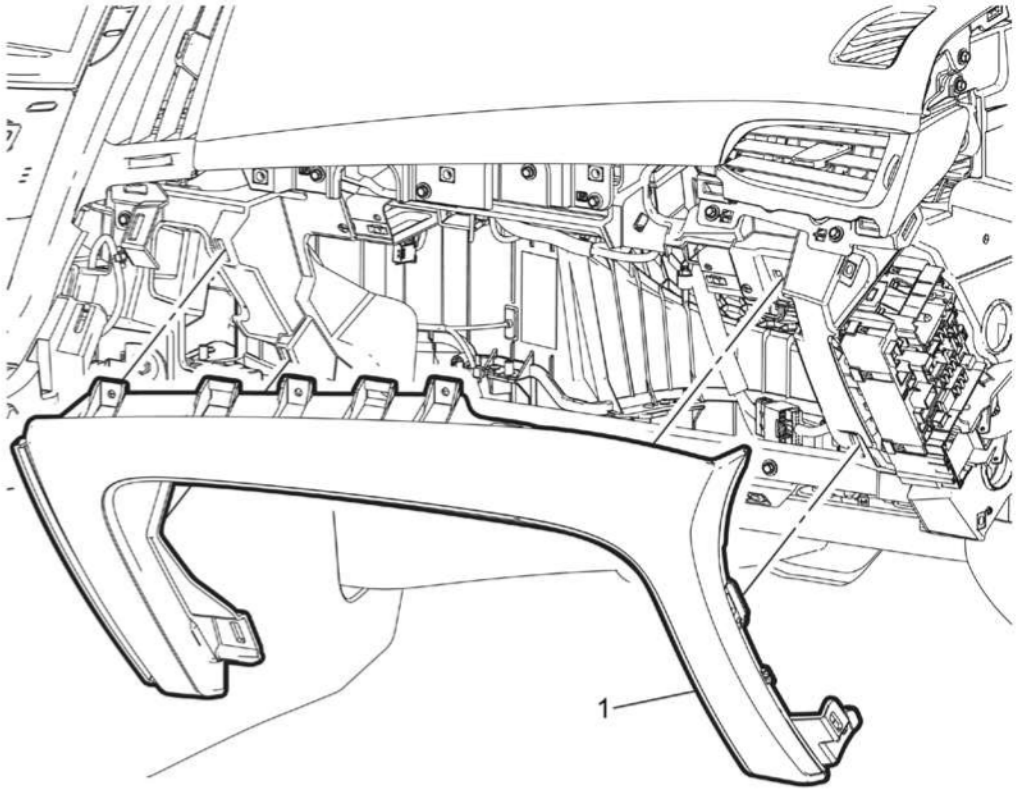


Fig. 32: Instrument Panel Lower Trim Panel
Courtesy of GENERAL MOTORS COMPANY

6. Remove the instrument panel lower trim panel (1) secured by retainers to the instrument carrier.

Installation Procedure

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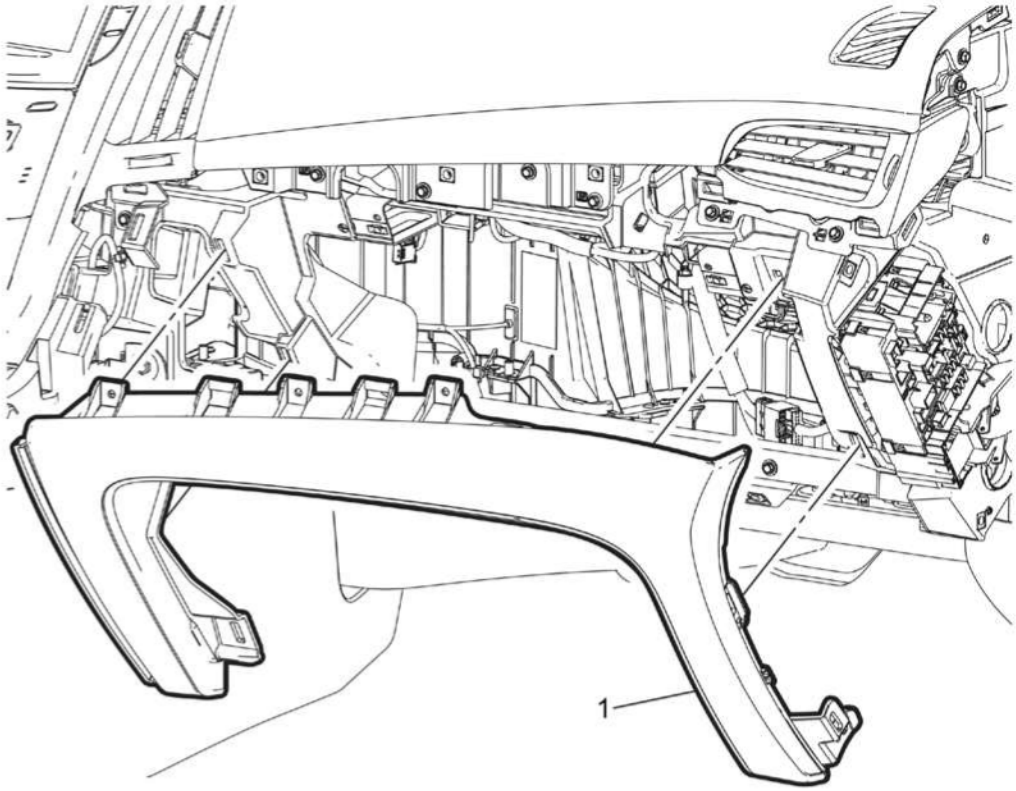


Fig. 33: Instrument Panel Lower Trim Panel
Courtesy of GENERAL MOTORS COMPANY

1. Install the instrument panel lower trim panel (1) to the instrument carrier.

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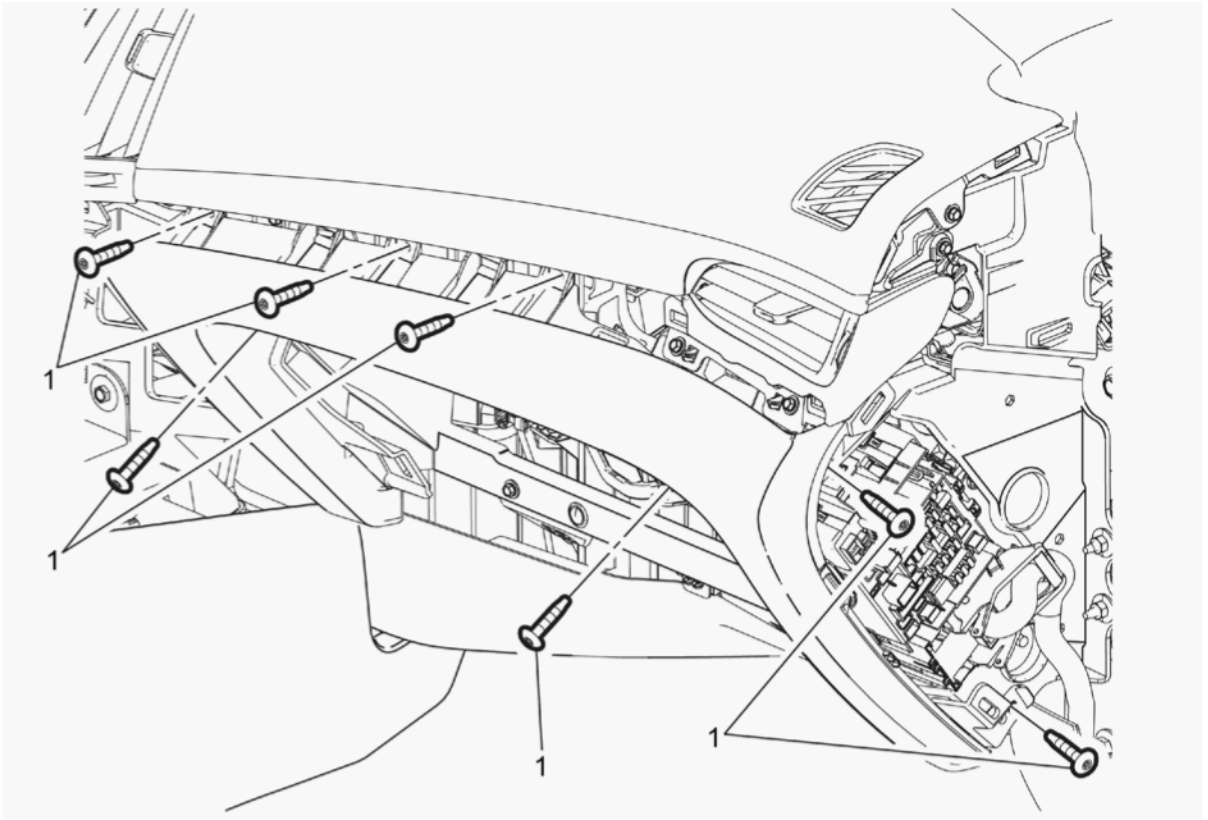


Fig. 34: Bolts And Instrument Panel Lower Trim Panel
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

2. Install the bolts (1) securing the instrument panel lower trim panel to the instrument carrier and tighten to 2.5 N.m (22 lb in).
3. Install the right front floor console applique. Refer to **Front Floor Console Applique Replacement - Right Side (Cadillac)**.
4. Install the right instrument panel fuse block access hole cover. Refer to **Instrument Panel Fuse Block Access Hole Cover Replacement (Cadillac)**.
5. Install the instrument panel compartment. Refer to **Instrument Panel Compartment Replacement (Cadillac)**.
6. Install the right instrument panel trim plate. Refer to **Instrument Panel Trim Plate Replacement - Right Side (Cadillac)**.

INSTRUMENT PANEL LOWER CENTER TRIM PANEL REPLACEMENT (CHEVROLET / GMC)

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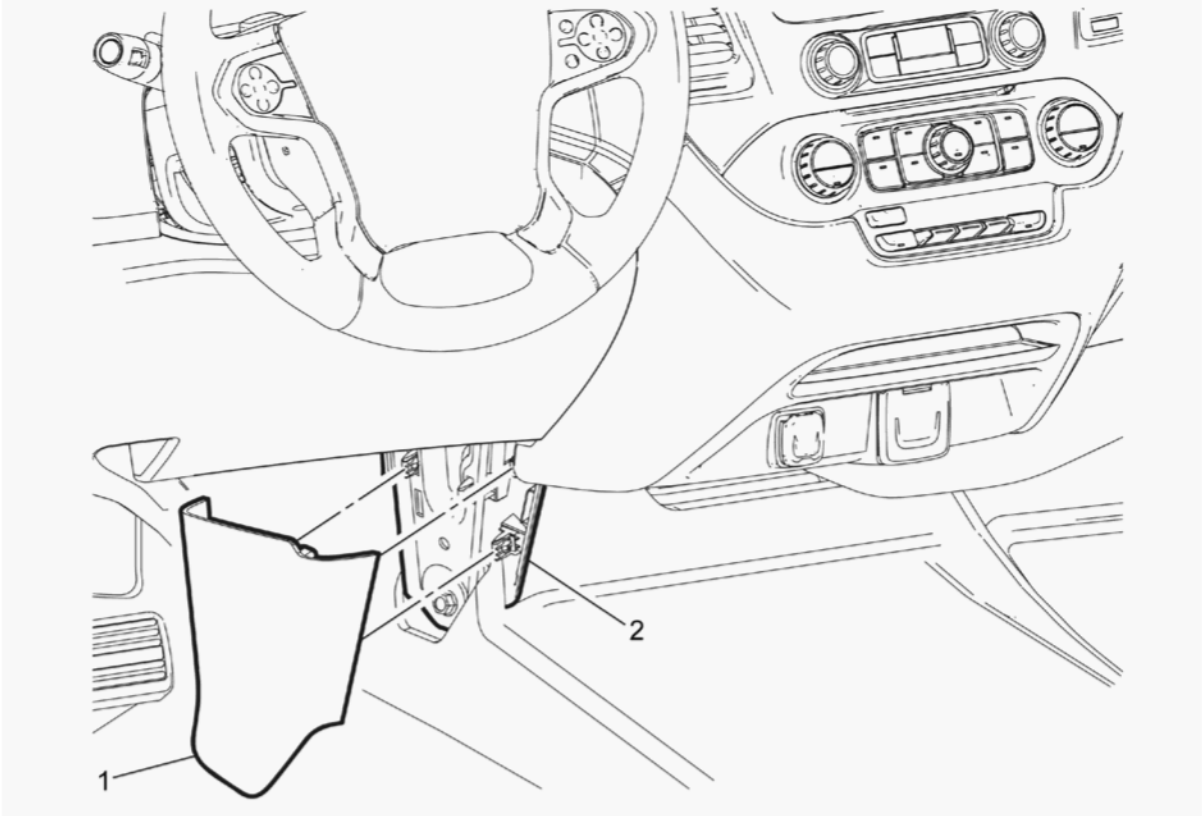


Fig. 35: Instrument Panel Lower Center Trim Panel (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

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 CENTER COMPARTMENT REPLACEMENT (CHEVROLET / GMC)

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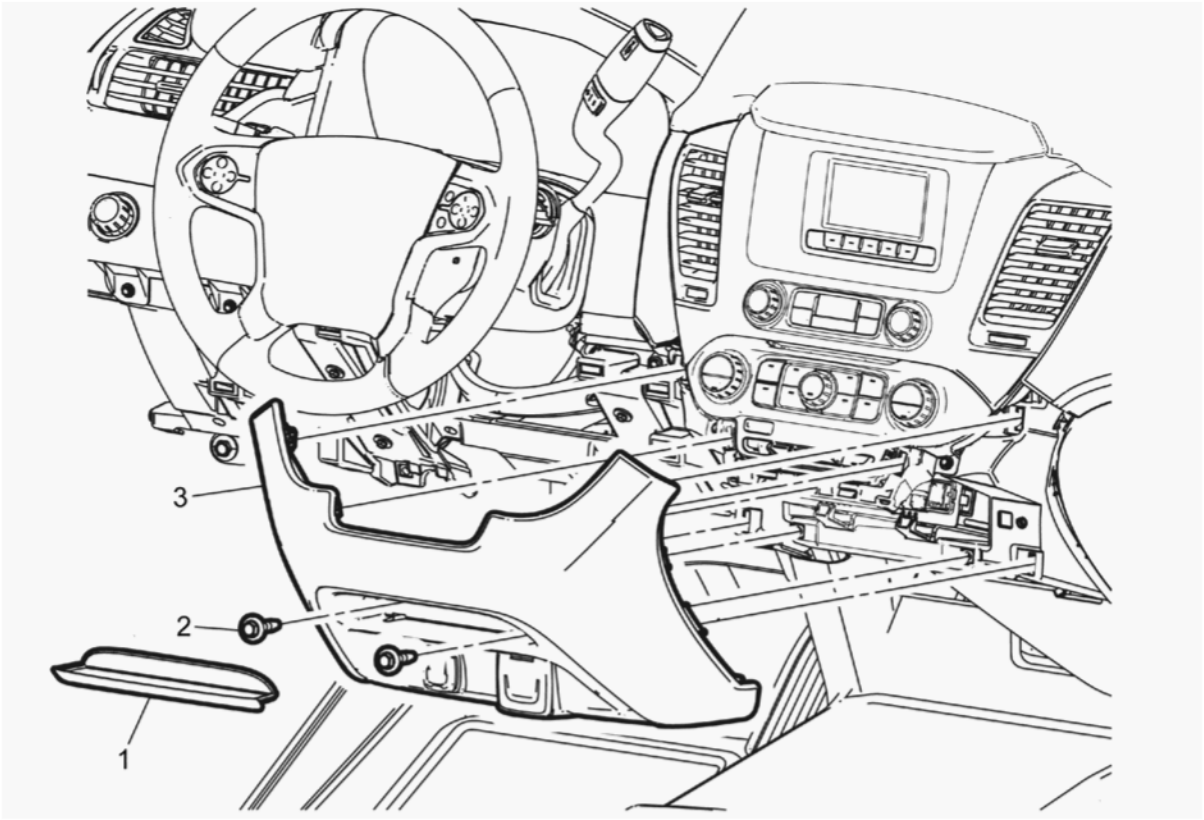


Fig. 36: Instrument Panel Center Compartment
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the instrument panel knee bolster. Refer to **Instrument Panel Knee Bolster Replacement (Chevrolet / GMC)**.	
1	Instrument Panel Center Compartment Liner
2	Instrument Panel Center Compartment Bolt (Qty 2) **CAUTION:** **Refer to Fastener Caution .**

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Callout	Component Name
	Tighten 2.5 N.m (22 lb in)
3	Instrument Panel Center Compartment **Procedures** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the compartment to the instrument carrier. 2. Disconnect electrical connections. 3. Transfer components as necessary.

INSTRUMENT PANEL COMPARTMENT REPLACEMENT (CHEVROLET / GMC)

Removal Procedure

1. Remove the right instrument panel outer air outlet. Refer to **Instrument Panel Outer Air Outlet Replacement - Right Side (Chevrolet / GMC)** .
2. Remove the right front floor console extension panel, if equipped. Refer to **Front Floor Console Extension Panel Replacement - Right Side (Chevrolet / GMC)**.
3. Remove the front floor console trim plate, if equipped. Refer to **Front Floor Console Trim Plate Replacement (Chevrolet / GMC)**.
4. Remove the instrument panel center compartment, if equipped. Refer to **Instrument Panel Center Compartment Replacement (Chevrolet / GMC)**.

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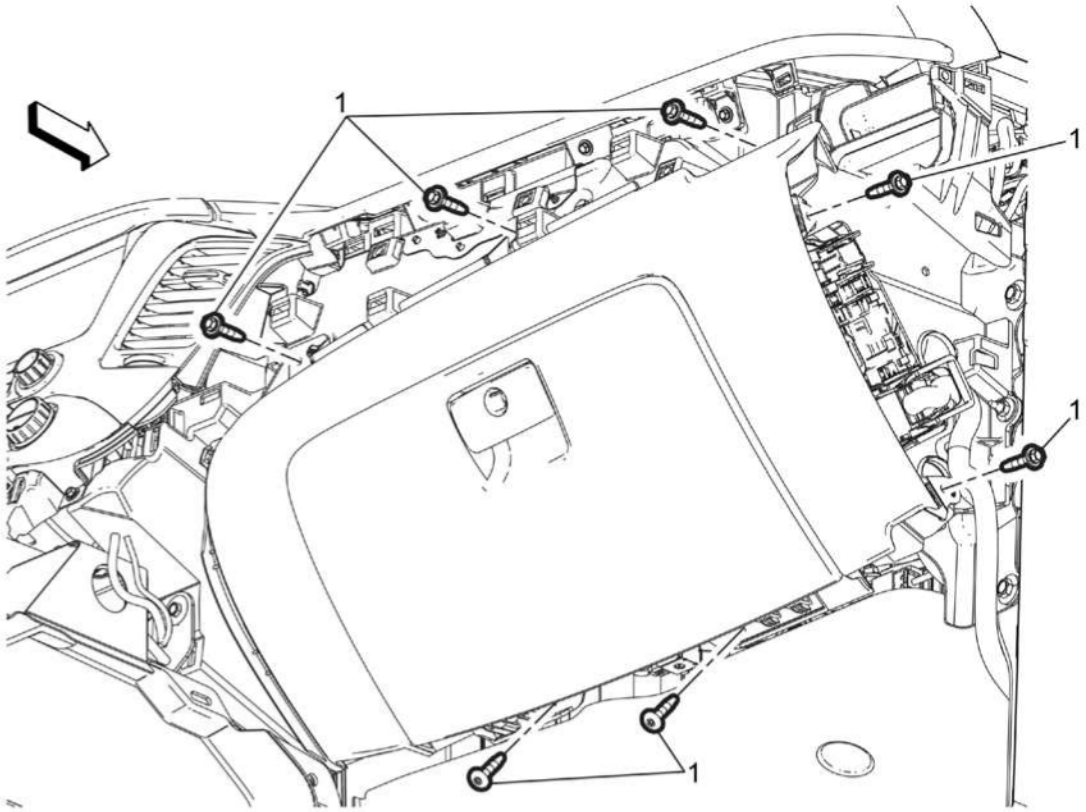


Fig. 37: Instrument Panel Compartment And Bolts
Courtesy of GENERAL MOTORS COMPANY

5. Remove the bolts (1) securing the instrument panel compartment to the instrument carrier.

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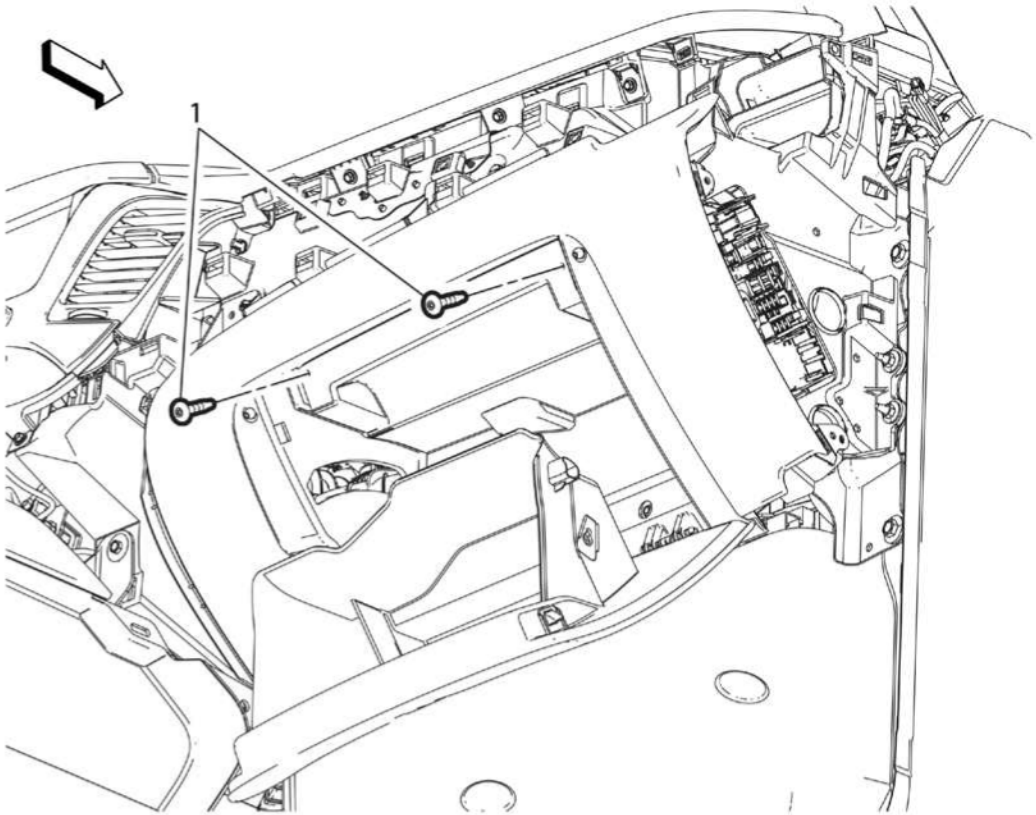


Fig. 38: Bolts And Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

6. Open the instrument panel compartment door.
7. Remove the bolts (1) securing the top of the instrument panel compartment.

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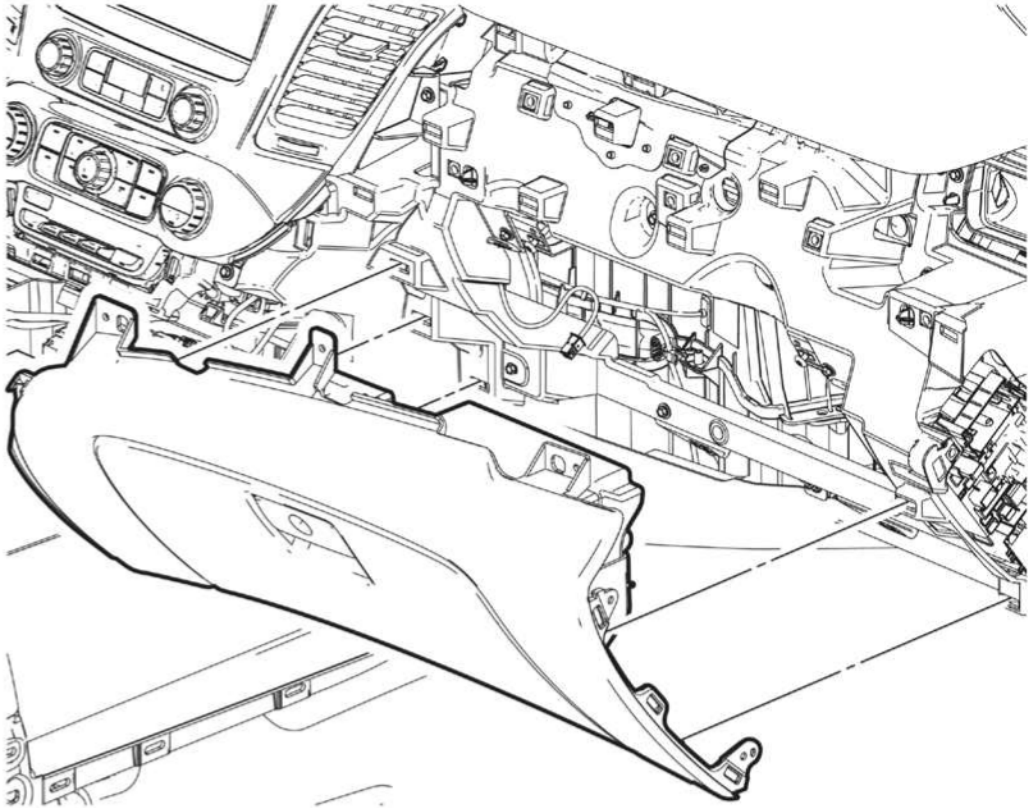


Fig. 39: Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

8. Remove the instrument panel compartment (1) secured by retainers to the instrument carrier.

Installation Procedure

1. When replacing the instrument panel compartment, transfer all necessary components.

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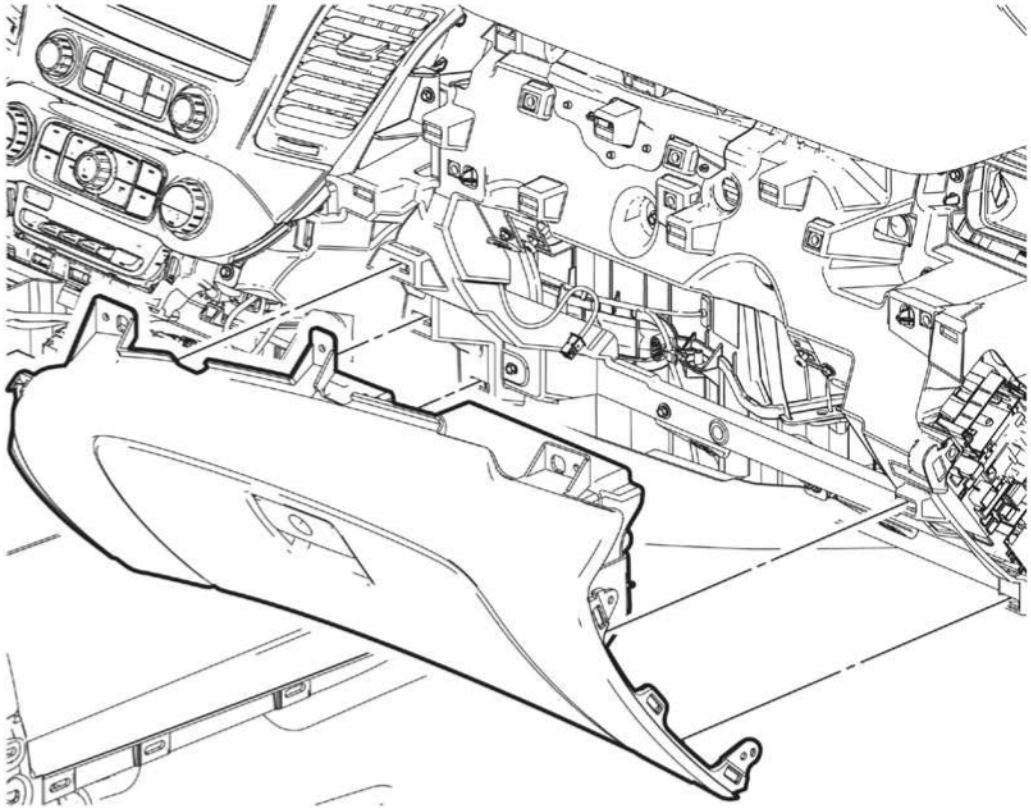


Fig. 40: Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

2. Install the instrument panel compartment (1) to the instrument carrier.

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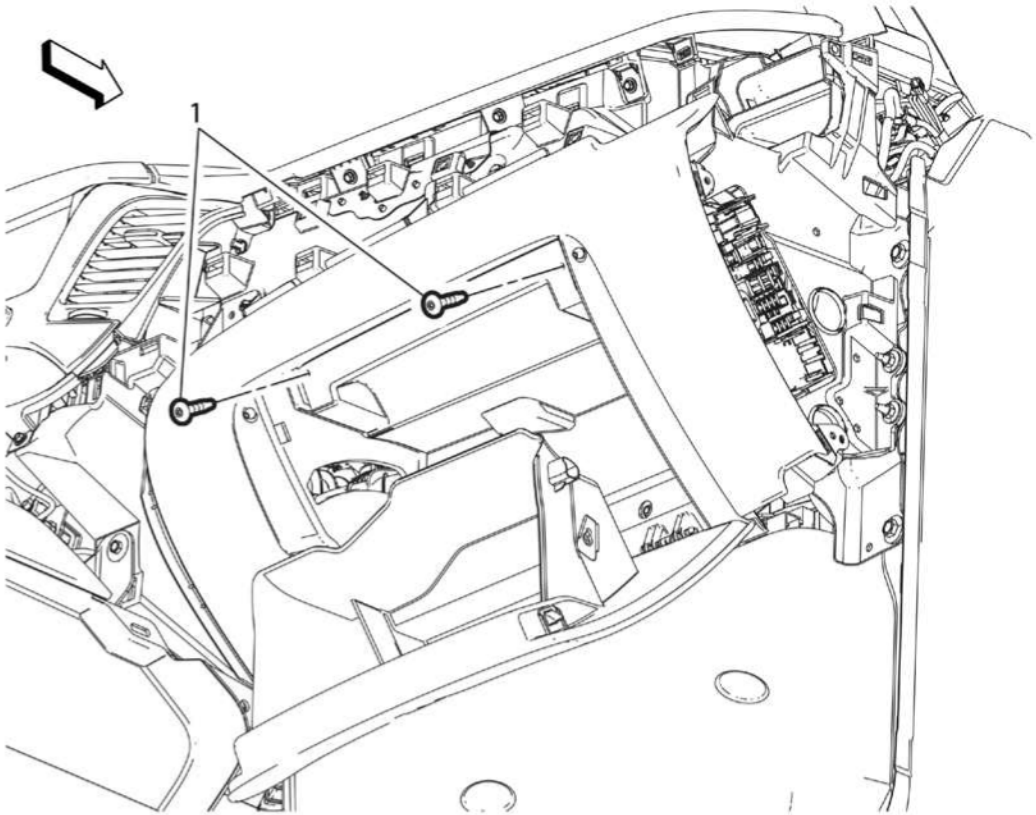


Fig. 41: Bolts And Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

3. Install the bolts (1) securing the instrument panel compartment to the instrument carrier and tighten to 2.5 N.m (22 lb in).

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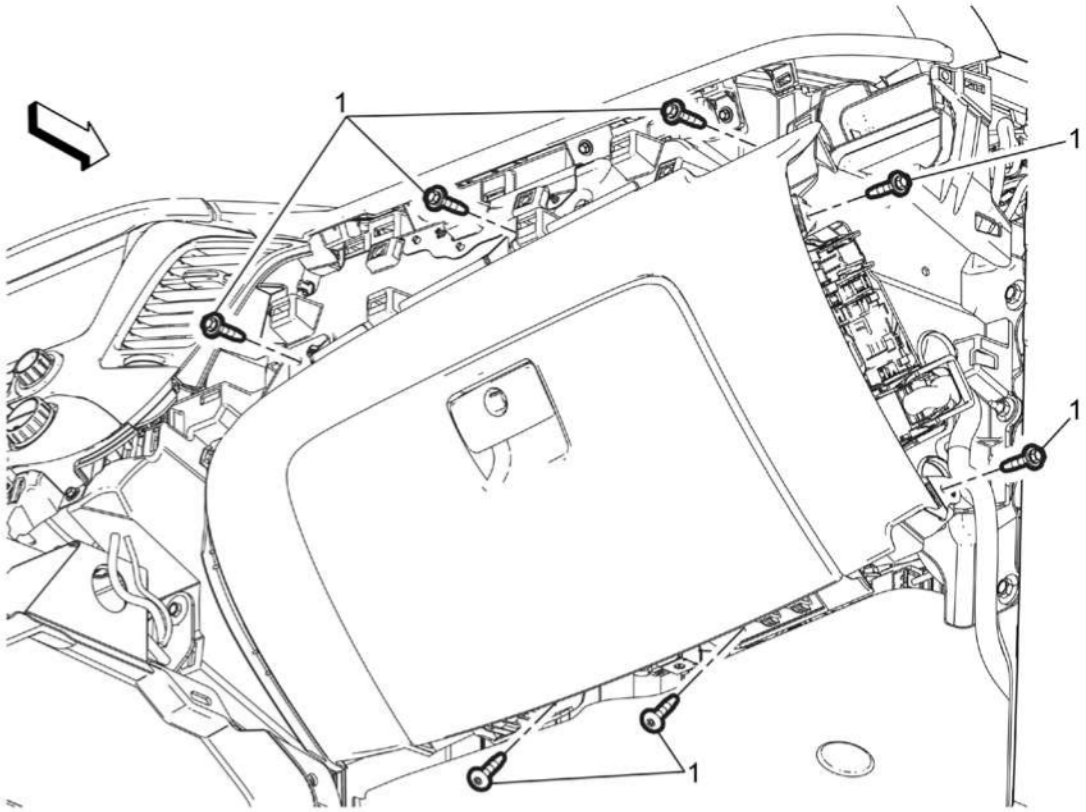


Fig. 42: Instrument Panel Compartment And Bolts
Courtesy of GENERAL MOTORS COMPANY

4. Install the bolts (1) securing the instrument panel compartment to the instrument carrier and tighten to 2.5 N.m (22 lb in).
5. Install the instrument panel center compartment, if equipped. Refer to **Instrument Panel Center Compartment Replacement (Chevrolet / GMC)**.
6. Install the front floor console trim plate, if equipped. Refer to **Front Floor Console Trim Plate Replacement (Chevrolet / GMC)**.
7. Install the right front floor console extension panel, if equipped. Refer to **Front Floor Console Extension Panel Replacement - Right Side (Chevrolet / GMC)**.
8. Install the right instrument panel outer air outlet. Refer to **Instrument Panel Outer Air Outlet Replacement - Right Side (Chevrolet / GMC)** .

INSTRUMENT PANEL COMPARTMENT REPLACEMENT (CADILLAC)

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Removal Procedure

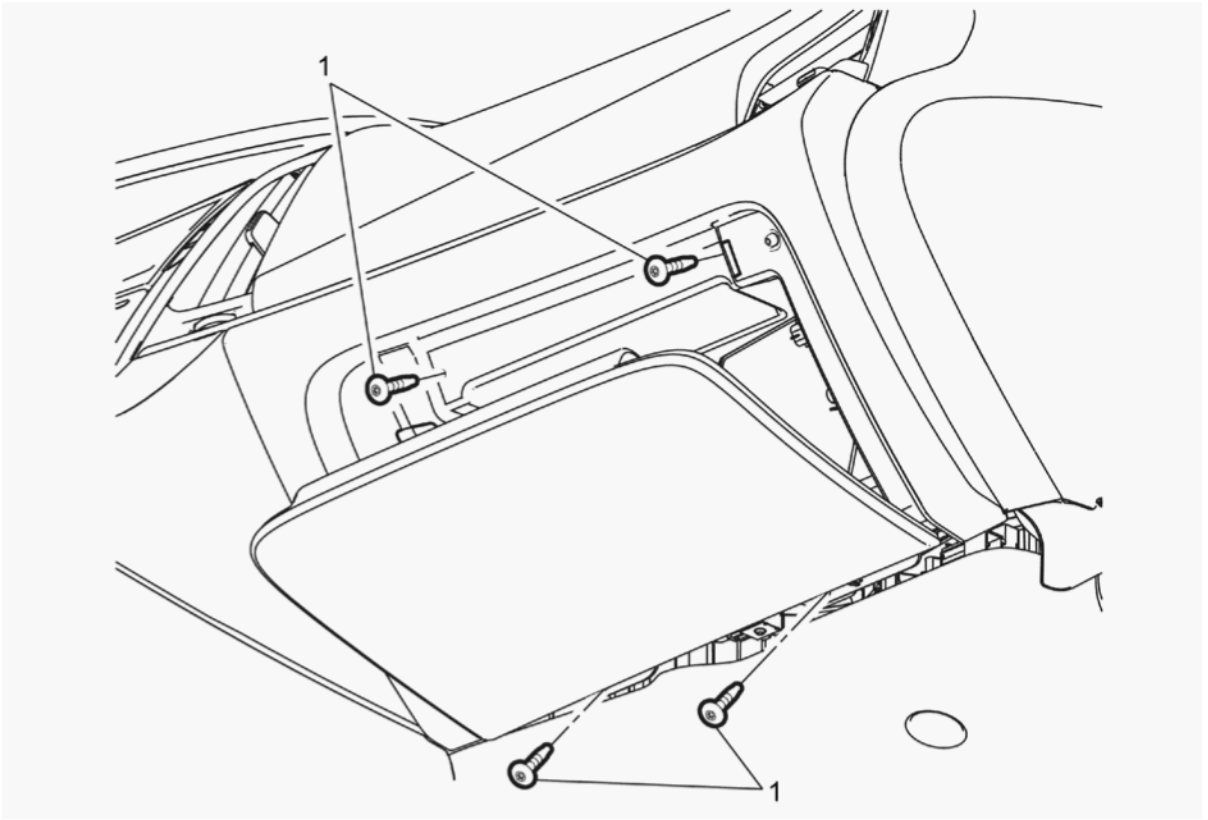


Fig. 43: Bolts And Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

1. Release the instrument panel compartment door. If the door is inoperable, manually release the latch. Refer to **Opening the Instrument Panel Compartment Door without Electrical Power (Cadillac)**.
2. Remove the bolts (1) securing the instrument panel compartment to the instrument carrier.

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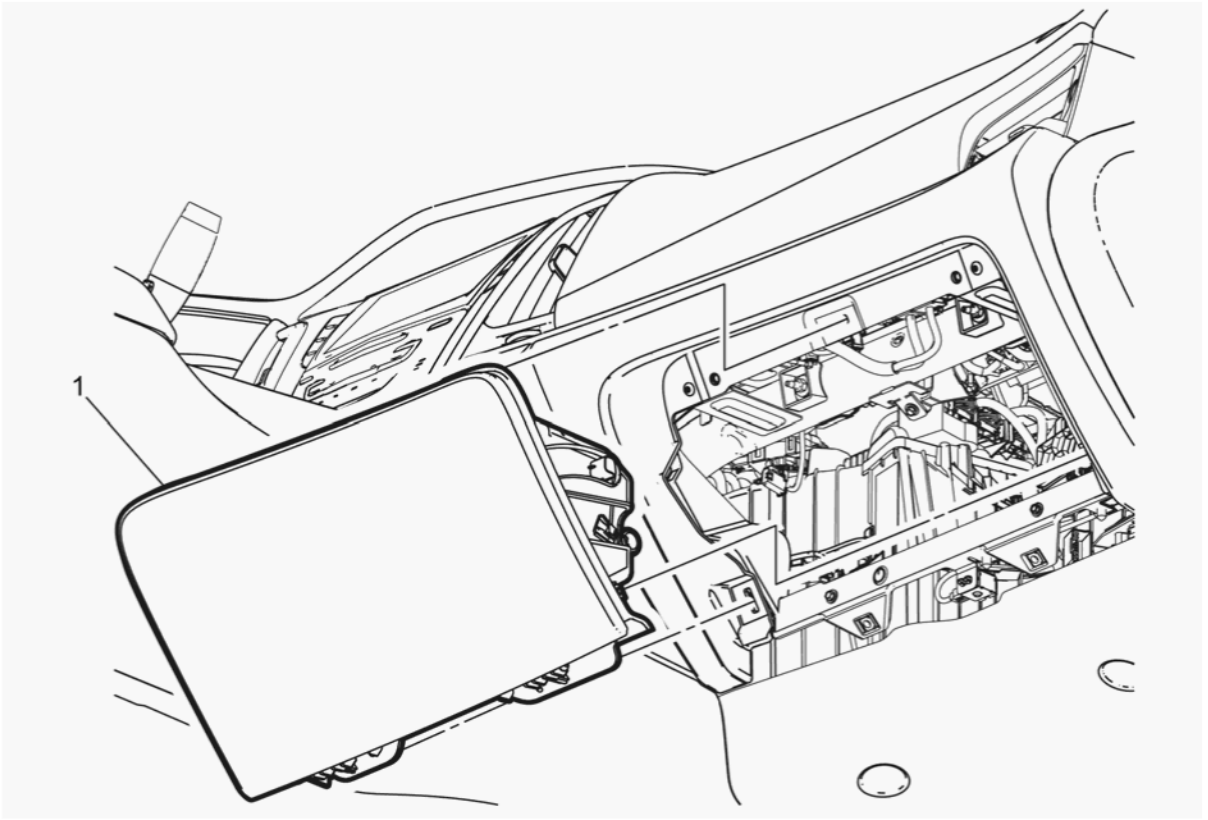


Fig. 44: Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

3. Remove the instrument panel compartment (1) secured by retainers to the instrument carrier.
4. Disconnect the electrical connections.

Installation Procedure

1. When replacing the instrument panel compartment, transfer all necessary components.
2. Connect the electrical connections.

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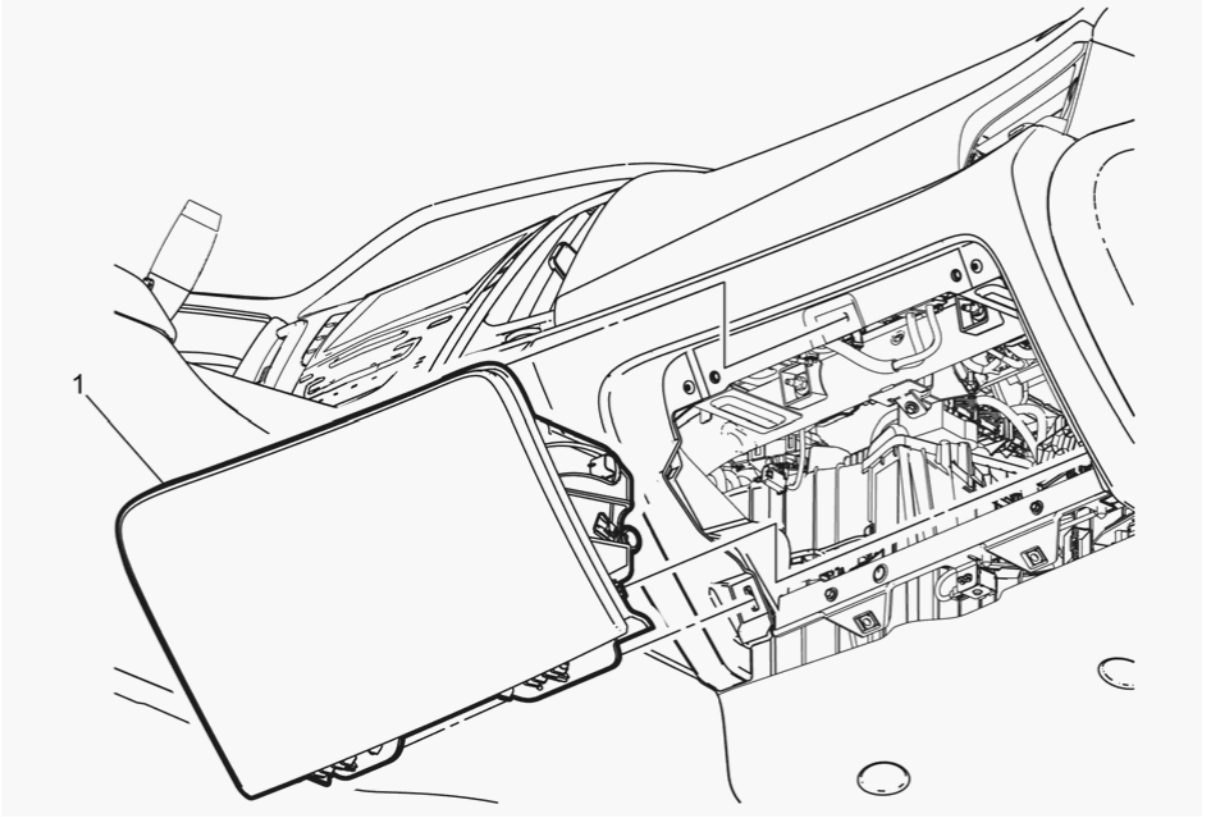


Fig. 45: Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

3. Install the instrument panel compartment (1) to the instrument carrier.

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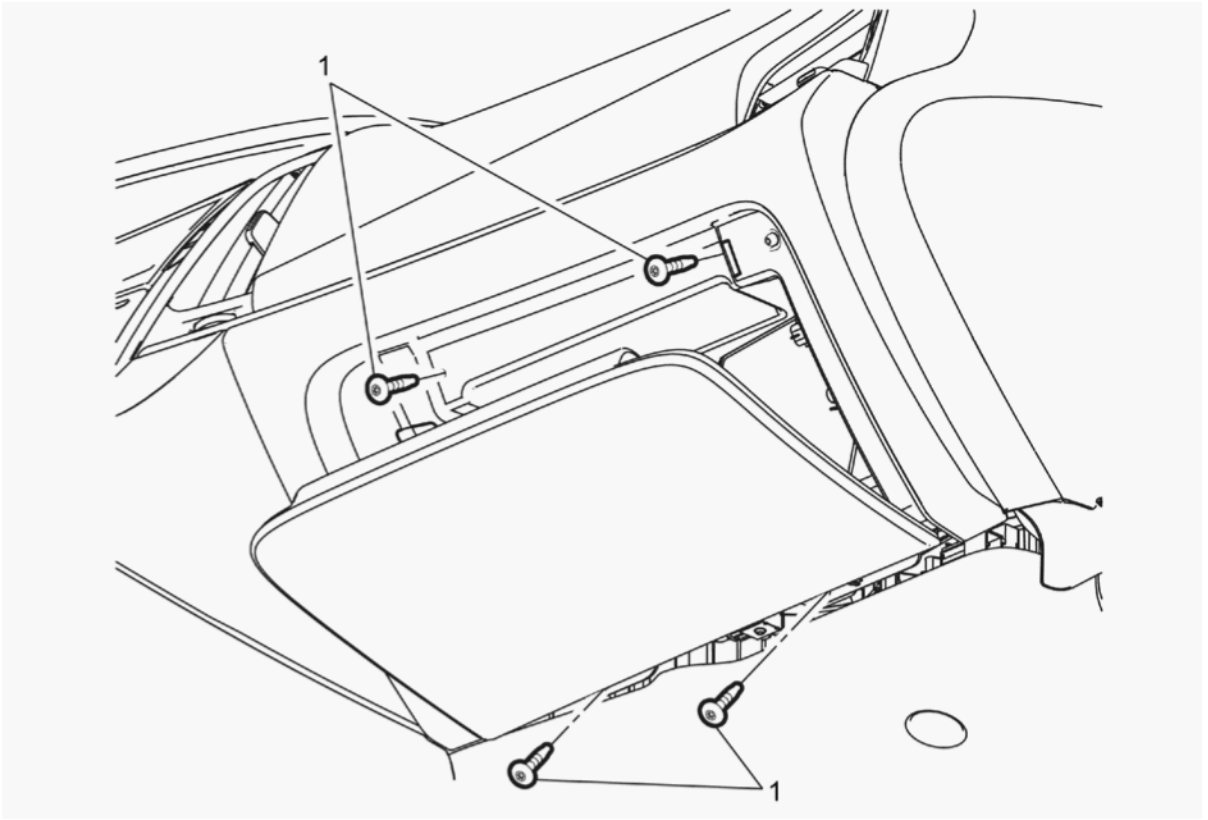


Fig. 46: Bolts And Instrument Panel Compartment
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

4. Install the bolts (1) securing the instrument panel compartment to the instrument carrier and tighten to 2.5 N.m (22 lb in).

INSTRUMENT PANEL COMPARTMENT DOOR REPLACEMENT (CHEVROLET / GMC)

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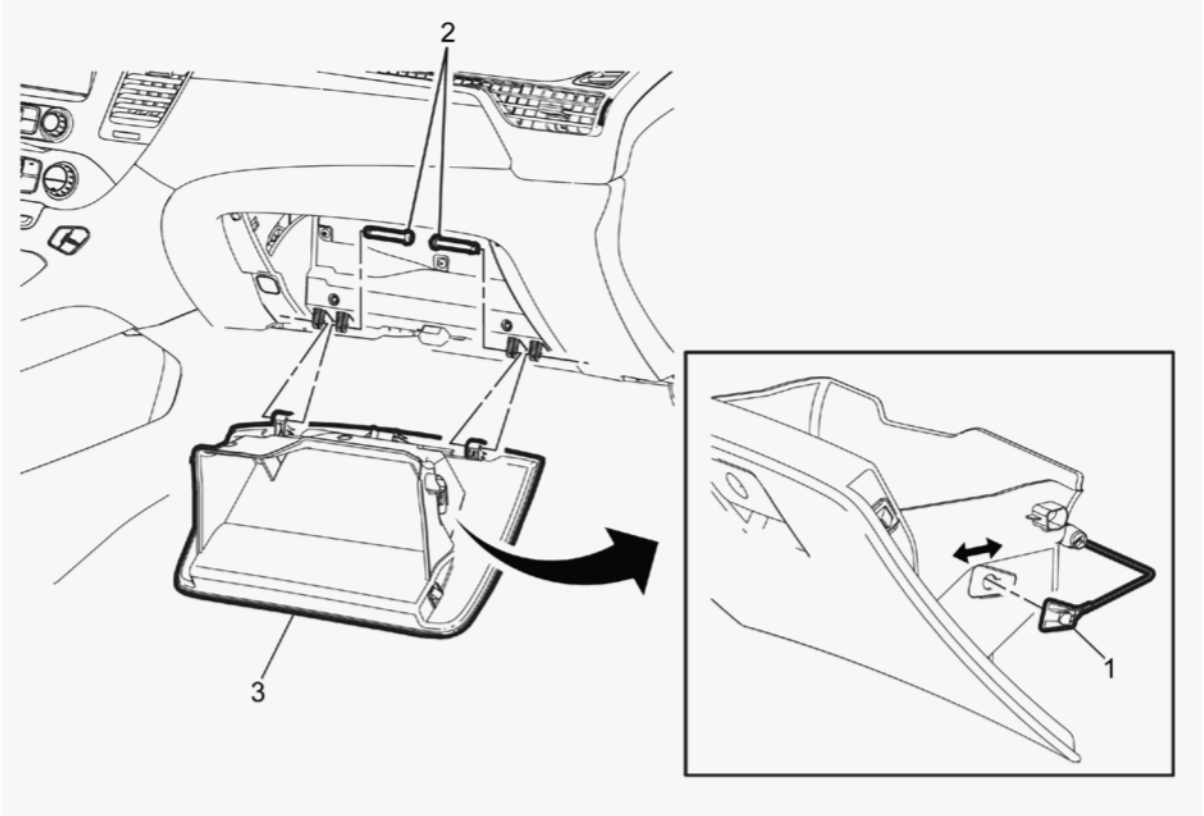


Fig. 47: Instrument Panel Compartment Door (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Compartment Door Strut **Procedure** Use a suitable tool to release the instrument panel compartment door strut from the door.
2	Instrument Panel Compartment Door Hinge Pin **Procedure** Use a suitable tool to release the pins securing the compartment door to the opening frame.
3	Instrument Panel Compartment Door

INSTRUMENT PANEL COMPARTMENT ACCESS HOLE COVER REPLACEMENT (CHEVROLET / GMC)

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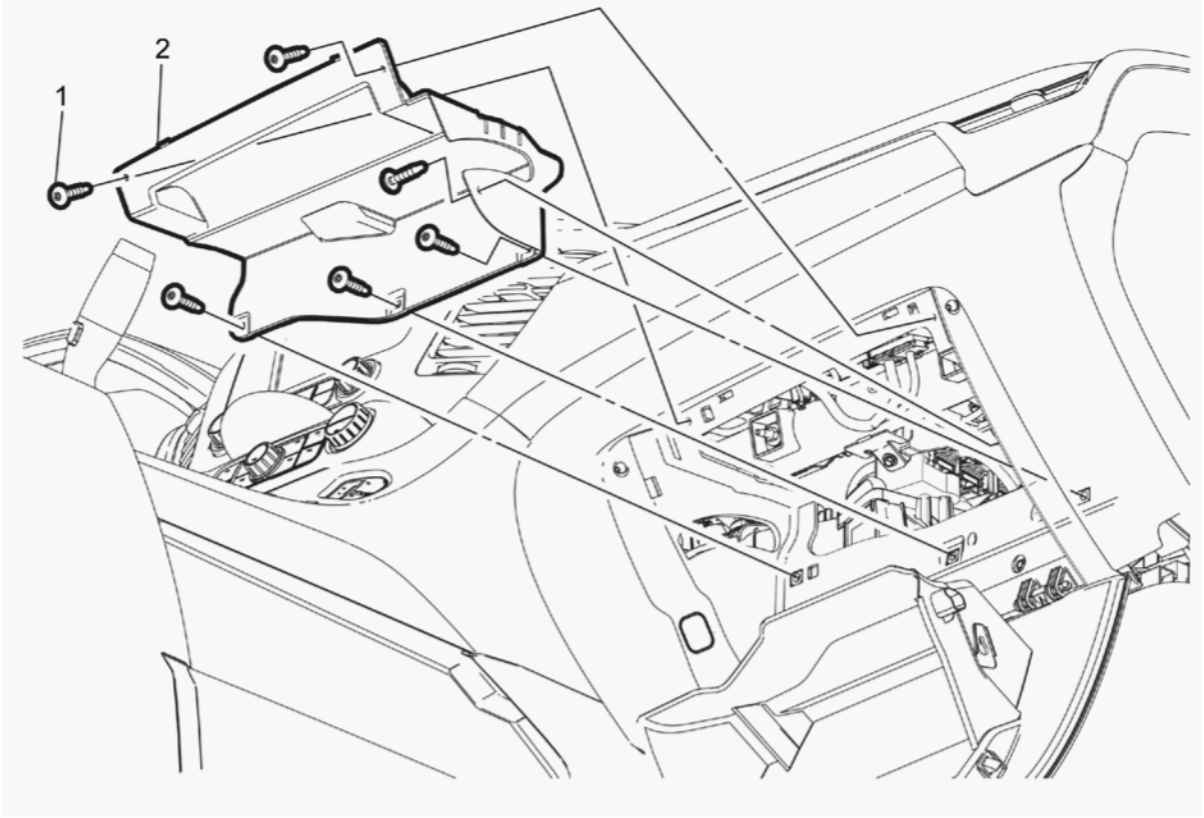


Fig. 48: Instrument Panel Compartment Access Hole Cover (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Release the instrument panel compartment door strut. Refer to **Instrument Panel Compartment Door Replacement (Chevrolet / GMC)**. 2. Squeeze the sides of the instrument panel compartment assembly allowing the compartment to open past the stops.	
1	Instrument Panel Compartment Bolt (Qty: 6) **CAUTION:**

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Callout	Component Name
	Refer to **Fastener** **Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Instrument Panel Compartment Access Hole Cover

INSTRUMENT PANEL COMPARTMENT DOOR LATCH ACTUATOR REPLACEMENT (CADILLAC)

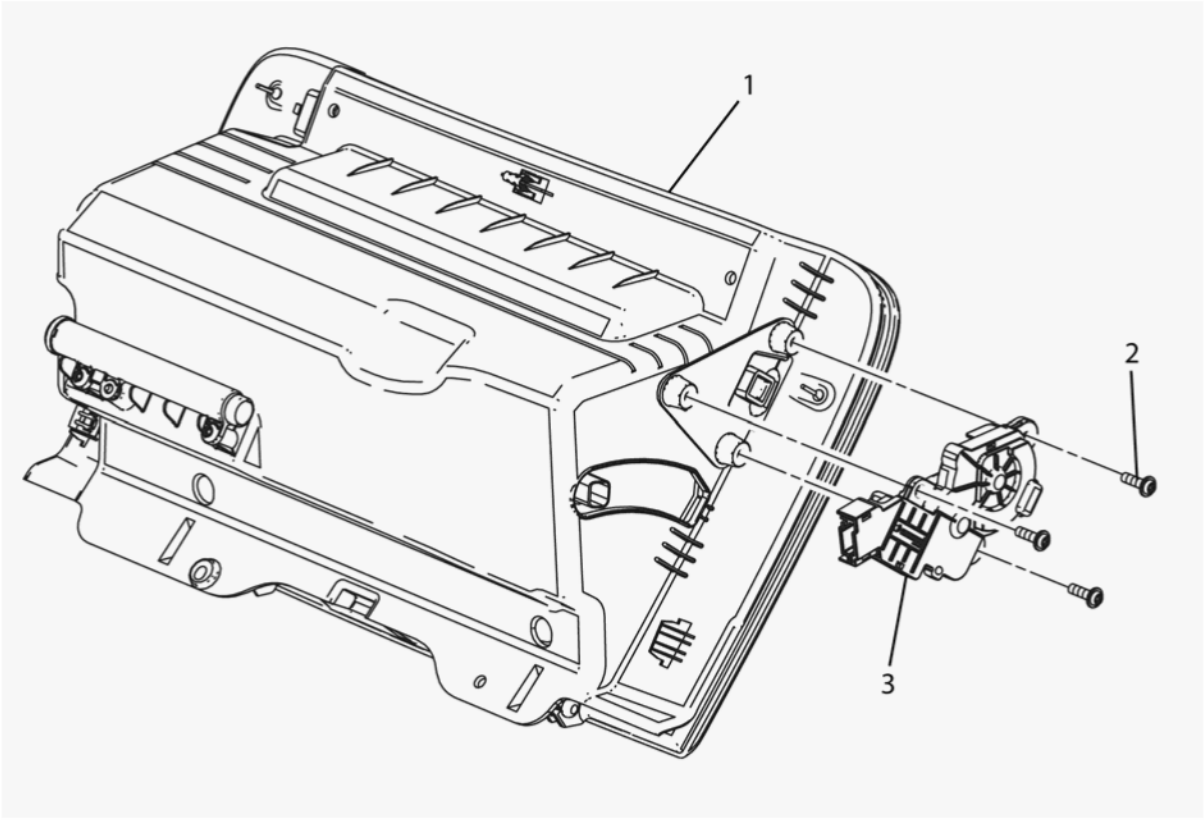


Fig. 49: Instrument Panel Compartment Door Latch Actuator (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

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Callout	Component Name
1	Instrument Panel Compartment Refer to **Instrument Panel Compartment Replacement (Cadillac)**.
2	Instrument Panel Compartment Bolt (Qty: 3) **CAUTION:** **Refer to** **Fastener** **Caution** . **Tighten** 2.5 N.m (22 lb in)
3	Instrument Panel Compartment Door Latch Actuator

INSTRUMENT PANEL COMPARTMENT DOOR STRUT REPLACEMENT (CHEVROLET / GMC)

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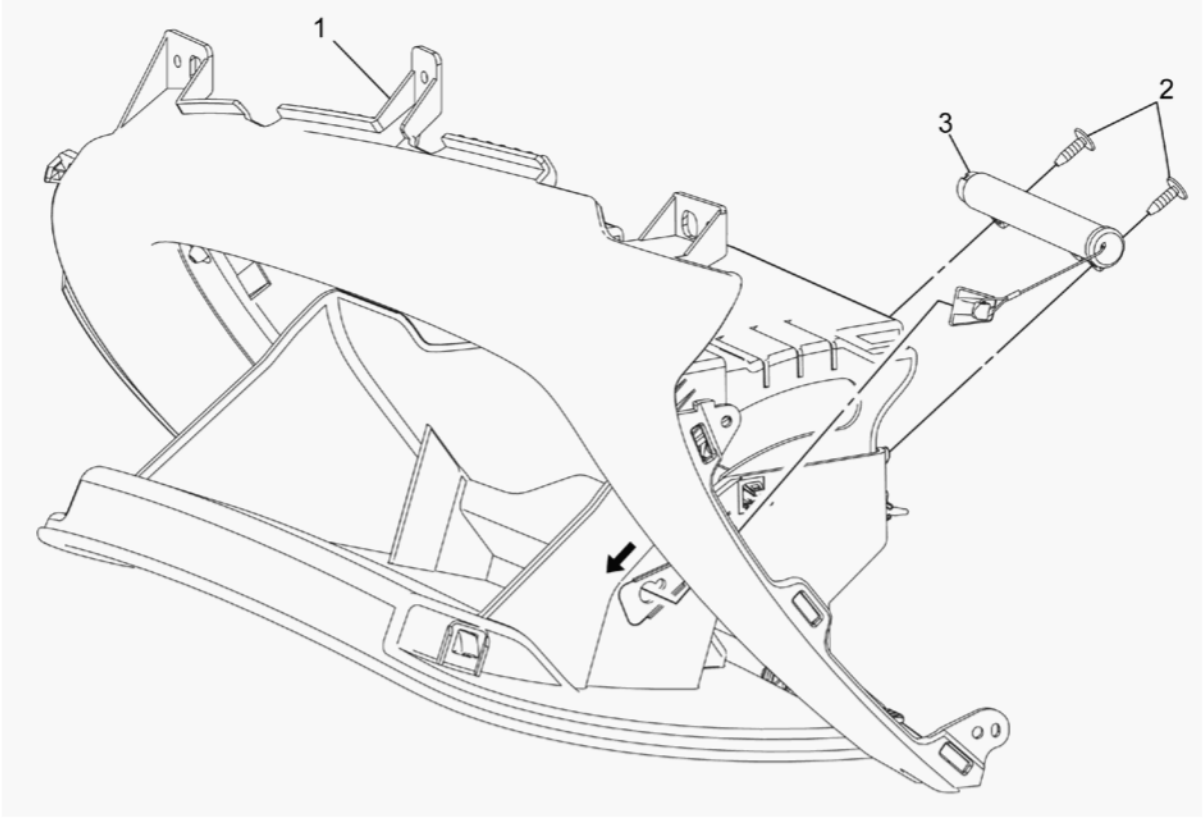


Fig. 50: Instrument Panel Compartment Door Strut (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Compartment Refer to **Instrument Panel Compartment Replacement (Chevrolet / GMC)**
2	Instrument Panel Compartment Door Strut Bolt (Qty: 2) **CAUTION:** **Refer to** **Fastener** **Caution** .

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Callout	Component Name
	Tighten 2.5 N.m (22 lb in)
3	Instrument Panel Compartment Door Strut **Procedure** Use a suitable tool to release the instrument panel compartment door strut from the door.

INSTRUMENT PANEL COMPARTMENT DOOR DAMPENER REPLACEMENT (CADILLAC)

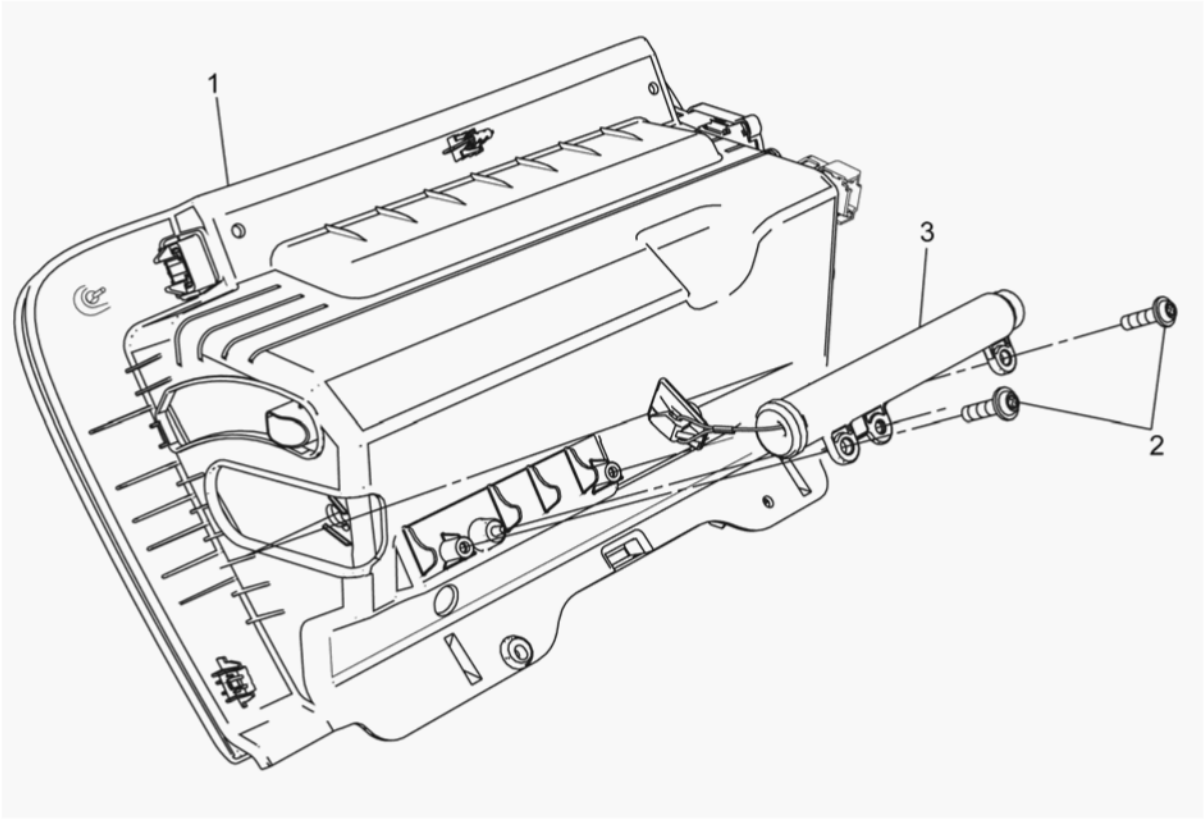


Fig. 51: Instrument Panel Compartment Door Dampener (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Compartment

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Callout	Component Name
	Refer to **Instrument Panel Compartment Replacement (Cadillac)**.
2	Instrument Panel Compartment Door Dampener Bolt (Qty: 2) **CAUTION:** **Refer to** **Fastener** **Caution** . **Tighten** 1.5 N.m (13 lb in)
3	Instrument Panel Compartment Door Dampener **Procedure** Disconnect the instrument panel compartment door dampener from the compartment assembly.

WINDSHIELD DEFROSTER NOZZLE GRILLE REPLACEMENT (CHEVROLET / GMC)

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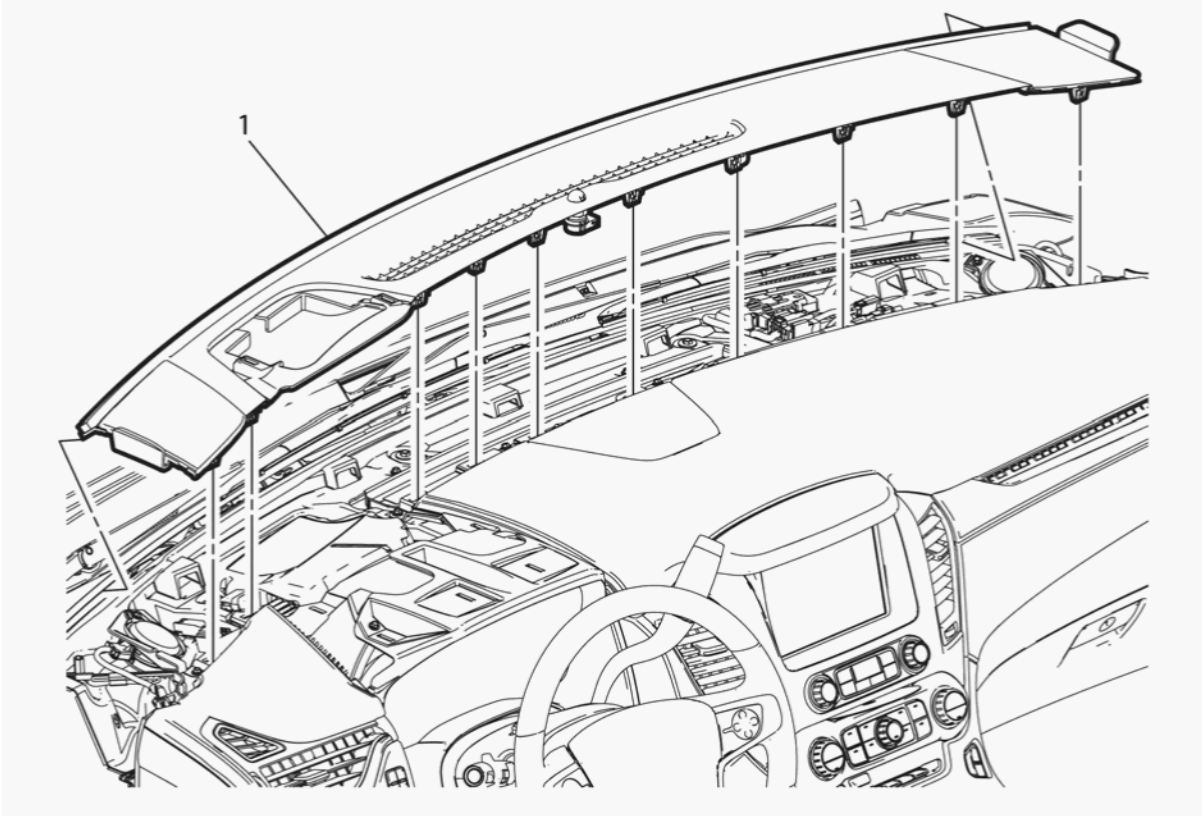


Fig. 52: Windshield Defroster Nozzle Grille (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the Left and right windshield garnish molding. Refer to **Windshield Garnish Molding Replacement (Left Side)** **Windshield Garnish Molding Replacement (Right Side)** . 2. Remove the instrument panel instrument cluster hood. Refer to **Instrument Panel Instrument Cluster Hood Replacement (Chevrolet / GMC)**.	
1	Windshield Defroster Nozzle Grille **Procedure**

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Callout	Component Name
	1. Use a flat-bladed plastic trim tool to release the 10 retainers securing the windshield defroster nozzle grille to the instrument panel carrier. 2. Disconnect the electrical connection. 3. When replacing the windshield defroster nozzle grille, transfer all necessary components.

INSTRUMENT PANEL UPPER TRIM COVER REPLACEMENT (CHEVROLET / GMC)

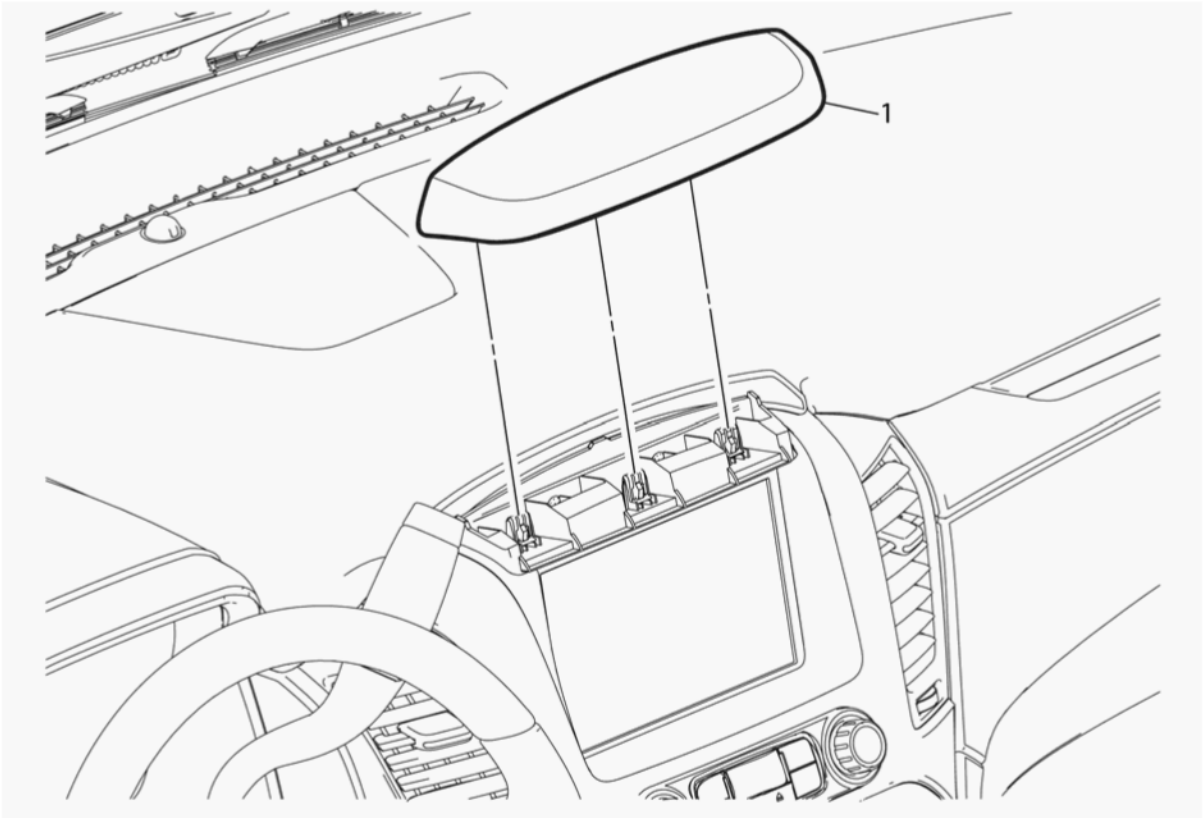


Fig. 53: Instrument Panel Upper Trim Cover (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Instrument Panel Upper Trim Cover

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Callout	Component Name
	Procedure Use a flat bladed plastic trim tool to aid in the removal of the cover from the instrument panel assembly.

INSTRUMENT CARRIER REPLACEMENT (CHEVROLET / GMC)

Removal Procedure

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

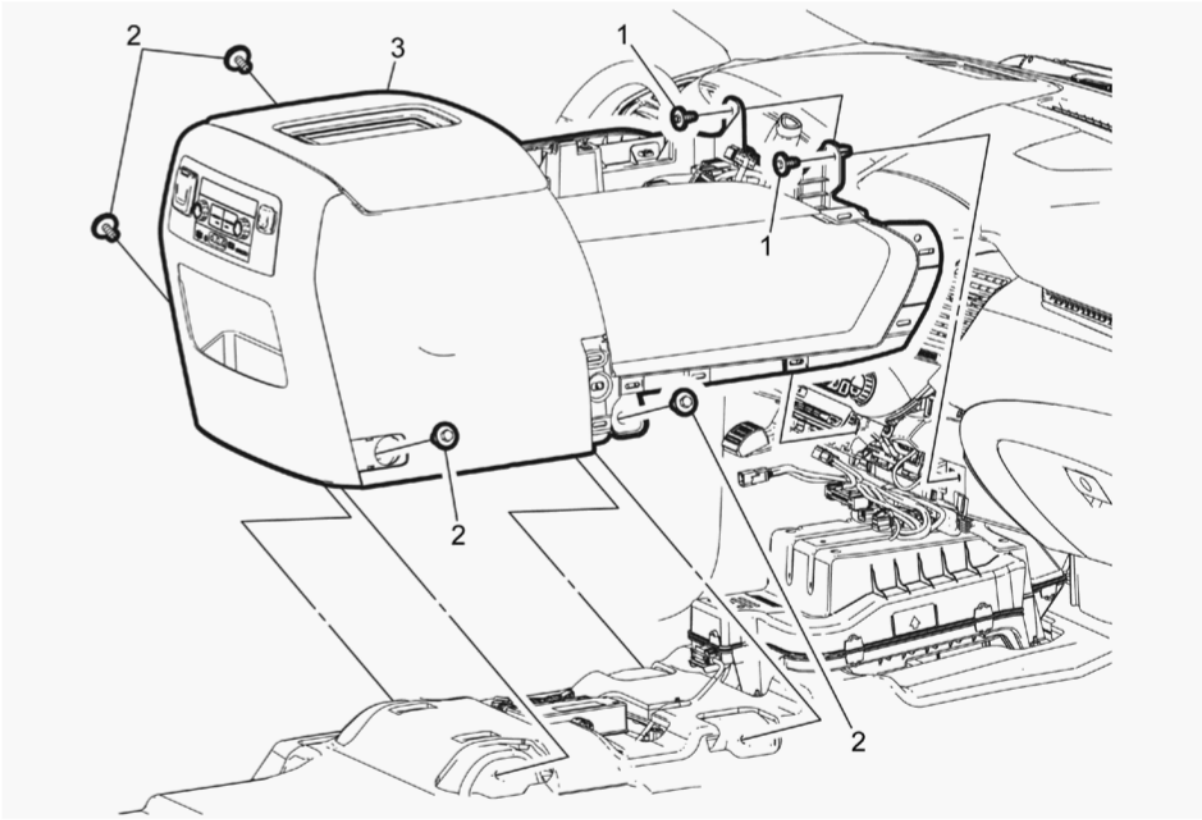


Fig. 54: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

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

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2. Remove the front floor console (3), if equipped. Refer to **Front Floor Console Replacement (Chevrolet / GMC)**.

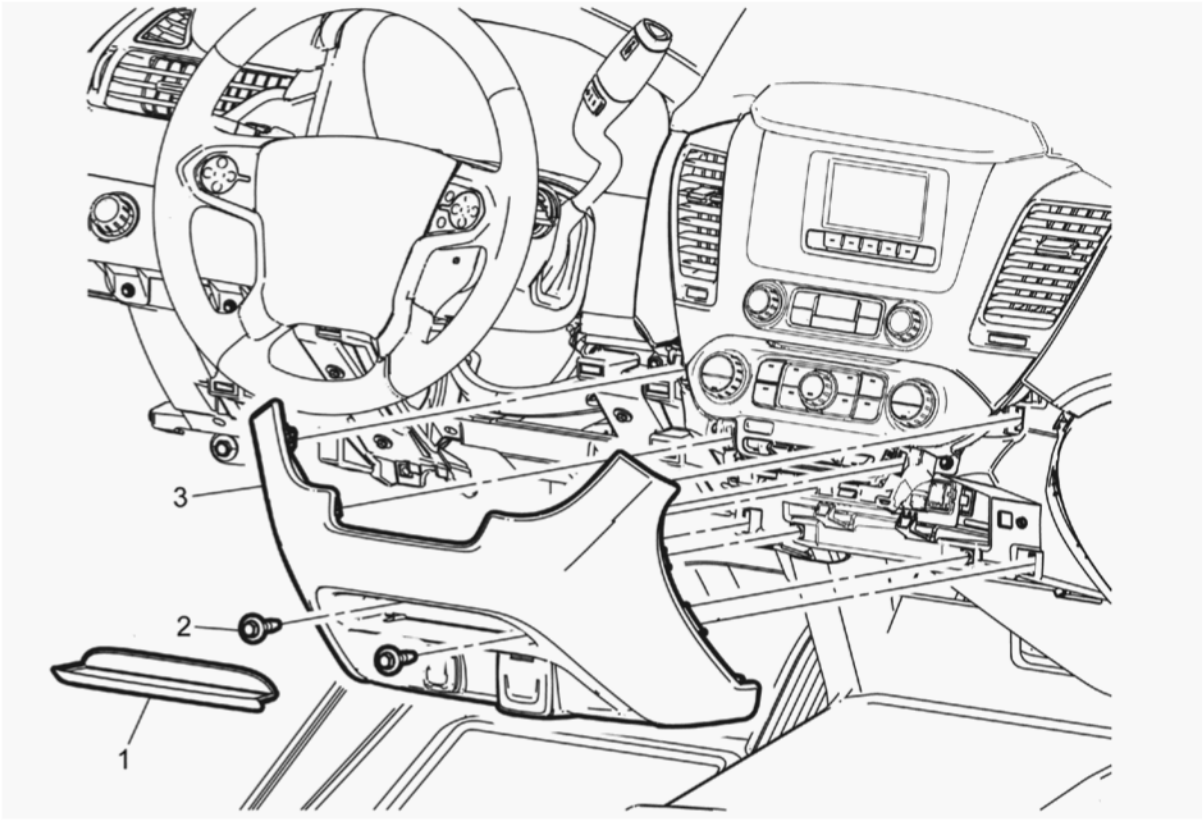


Fig. 55: Instrument Panel Center Compartment
Courtesy of GENERAL MOTORS COMPANY

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

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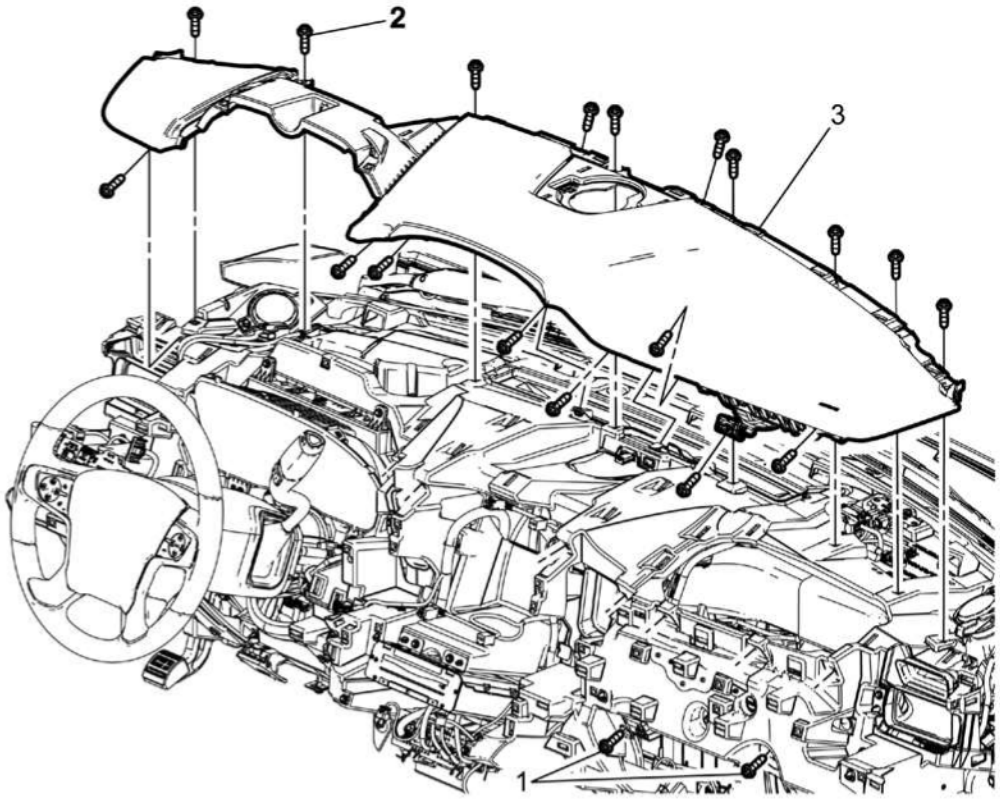


Fig. 56: Instrument Panel Upper Trim Panel
Courtesy of GENERAL MOTORS COMPANY

4. Remove the instrument panel upper trim panel (3). Refer to **Instrument Panel Upper Trim Panel Replacement (Chevrolet / GMC)**.

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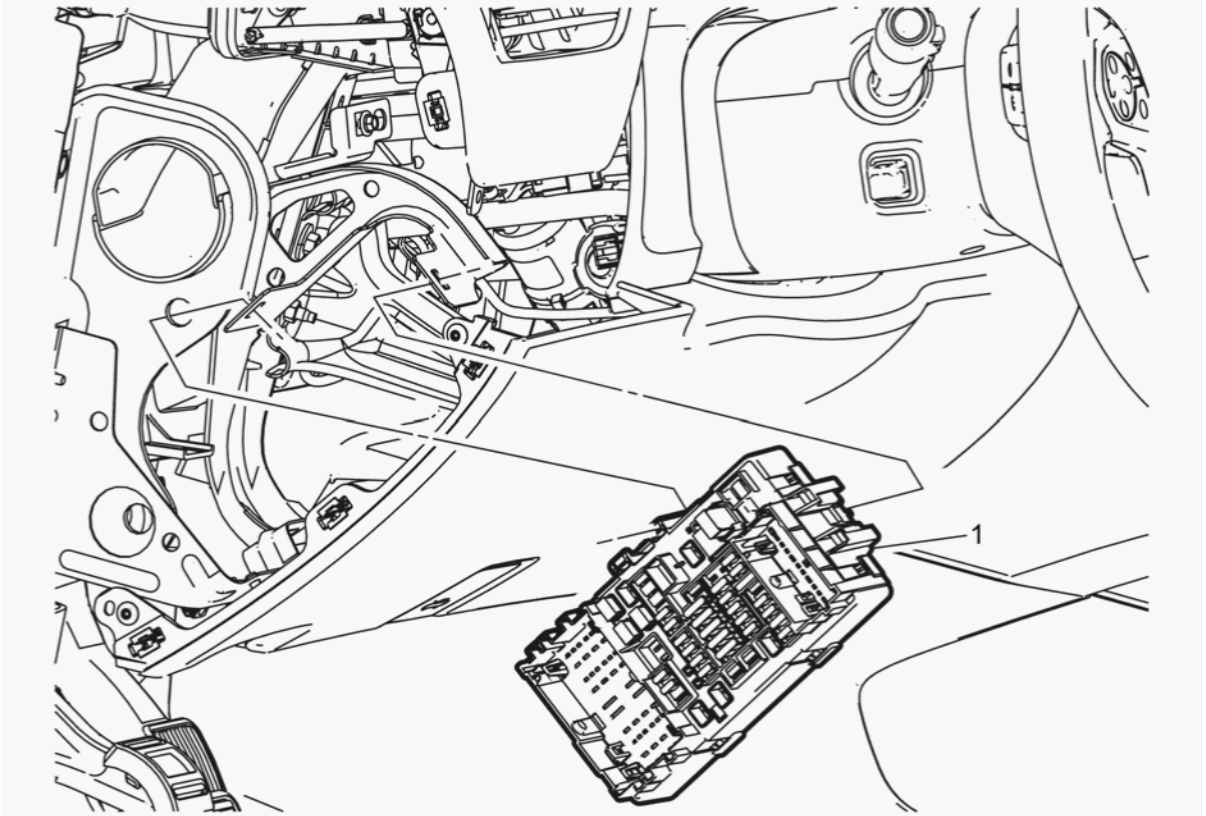


Fig. 57: Instrument Panel Wiring Harness Junction Blocks
Courtesy of GENERAL MOTORS COMPANY

5. Remove both instrument panel wiring harness junction blocks (1). Refer to **Instrument Panel Wiring Harness Junction Block Replacement**
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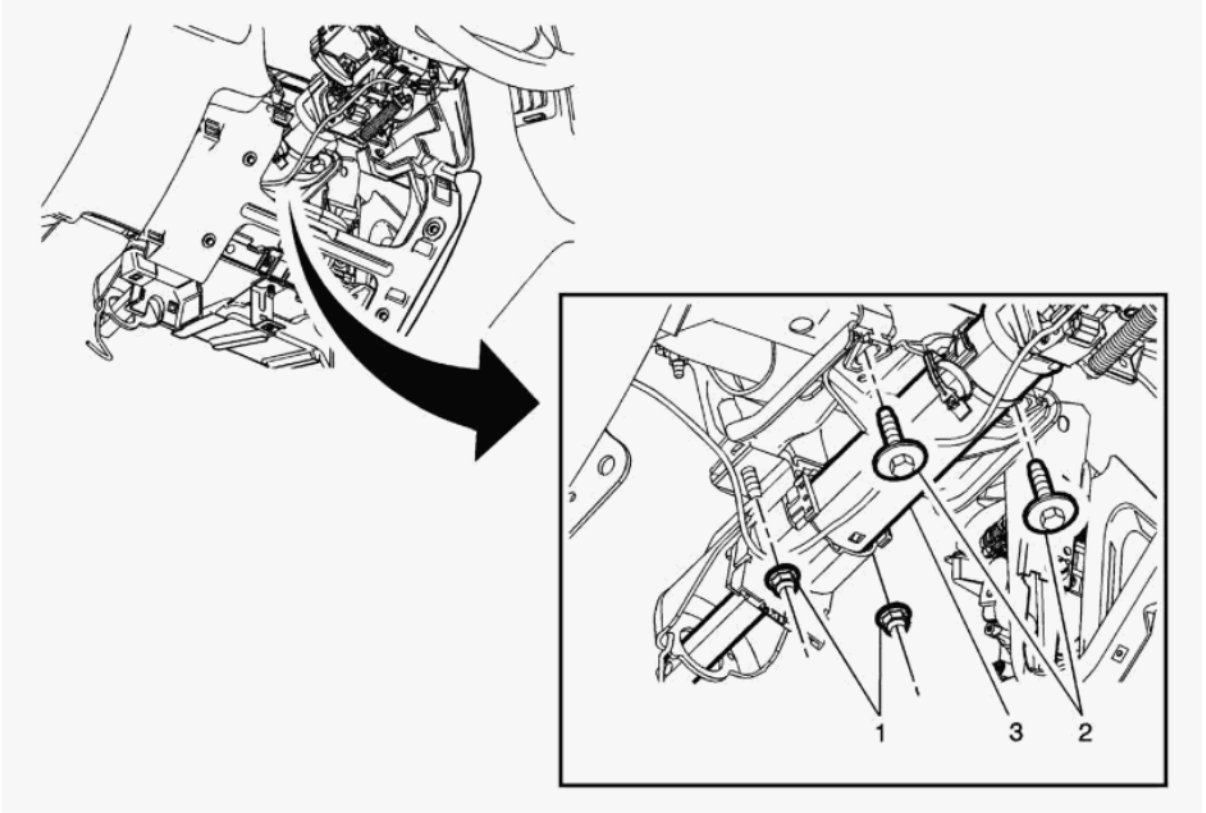


Fig. 58: Steering Column
Courtesy of GENERAL MOTORS COMPANY

6. Remove the steering column (3). Refer to **Steering Column Replacement (N33, N37)** **Steering Column Replacement (N38)** .

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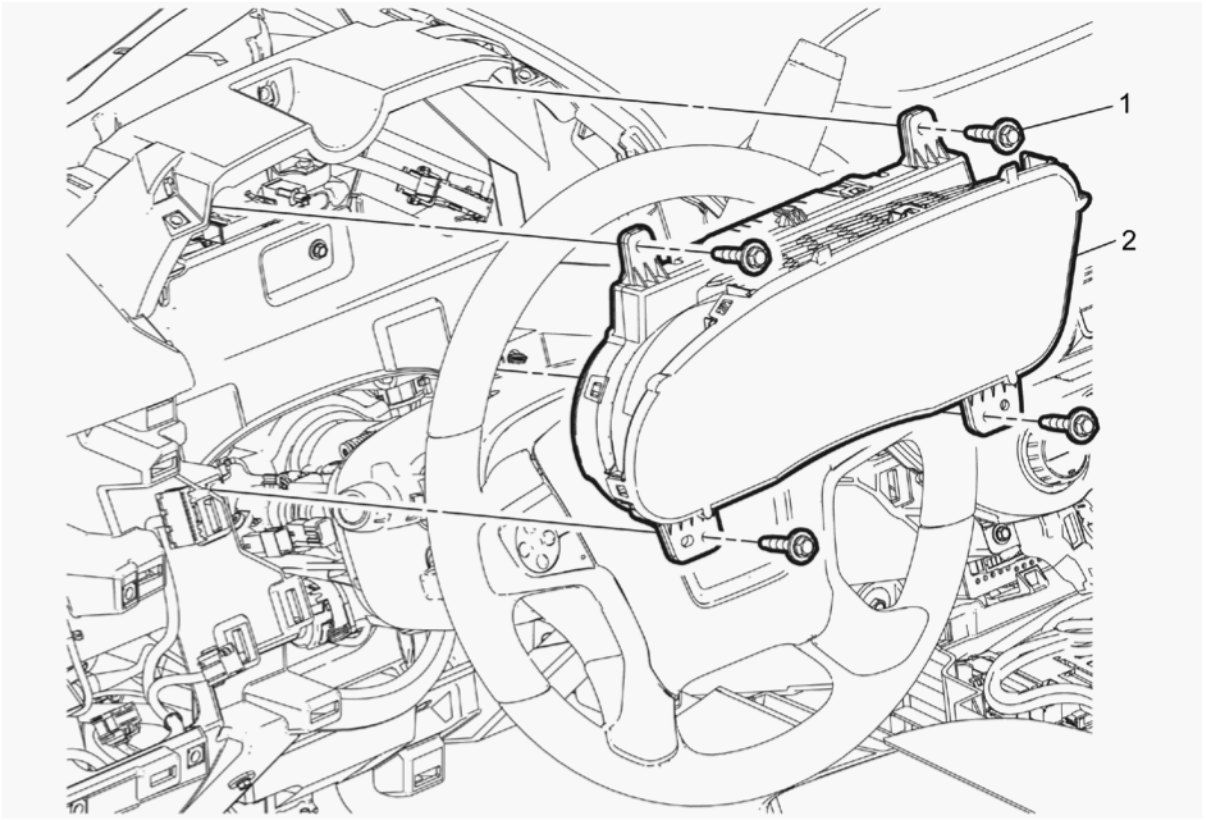


Fig. 59: Instrument Cluster
Courtesy of GENERAL MOTORS COMPANY

7. Remove the instrument cluster (2). Refer to **Instrument Cluster Replacement (Chevrolet / GMC)** .

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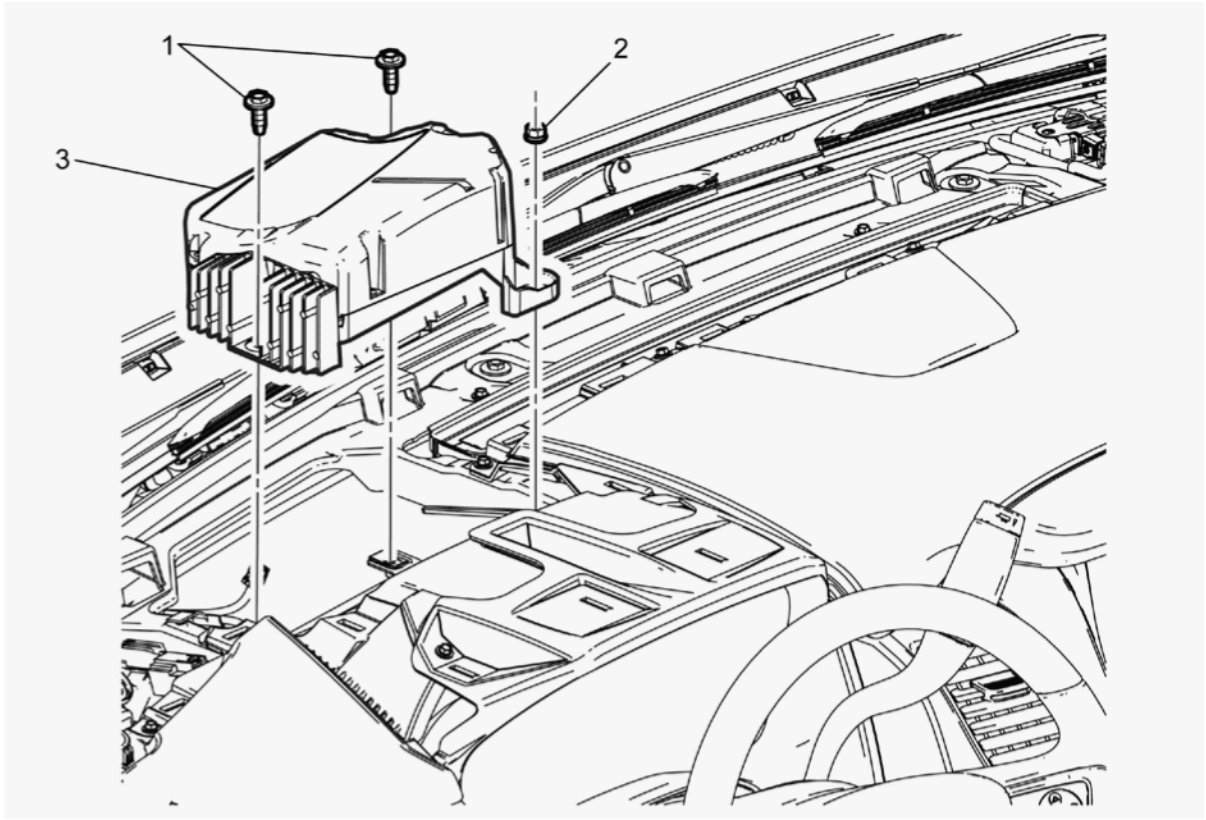


Fig. 60: Head-Up Display (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

8. Remove the head-up display (3), if equipped. Refer to **Head-Up Display Replacement (Chevrolet / GMC)** .

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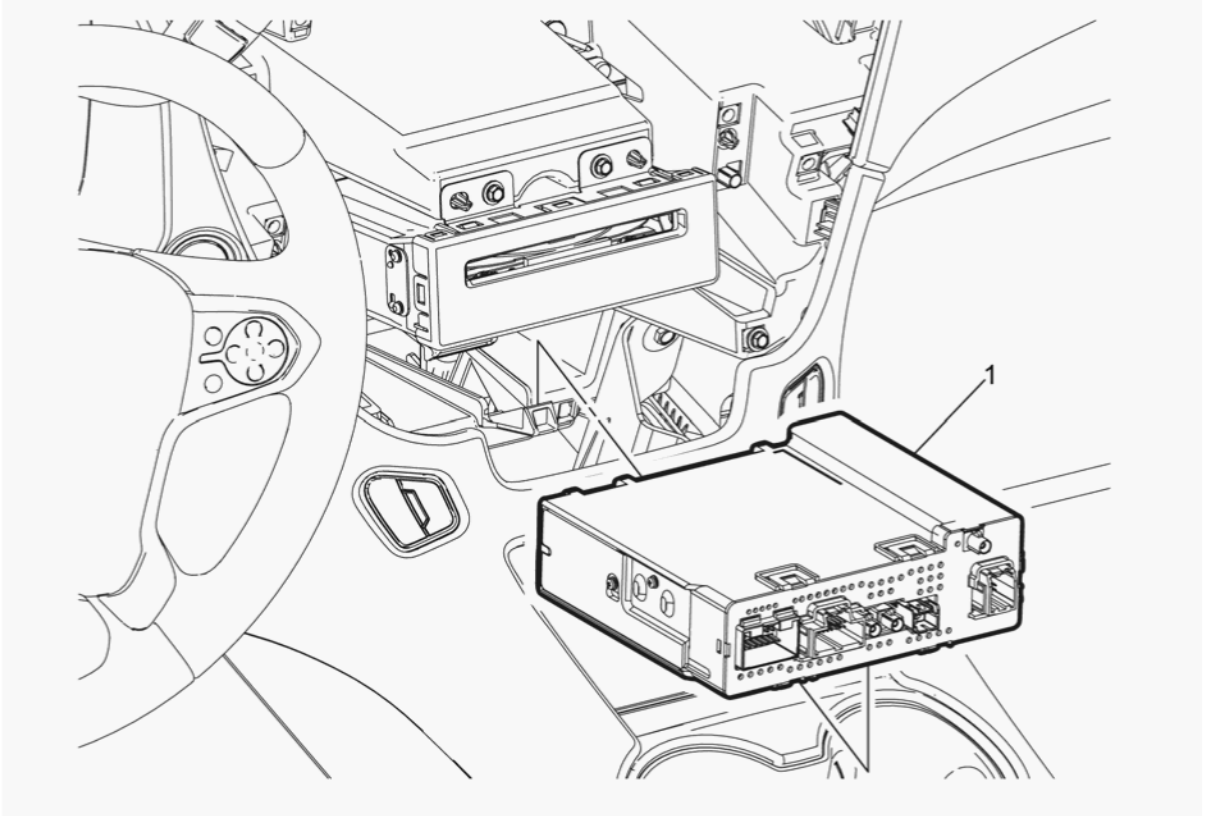


Fig. 61: Radio
Courtesy of GENERAL MOTORS COMPANY

9. Remove the radio (1). Refer to **Radio Replacement (Chevrolet / GMC with NGI)** **Radio Replacement (Chevrolet/GMC with IOB)** .

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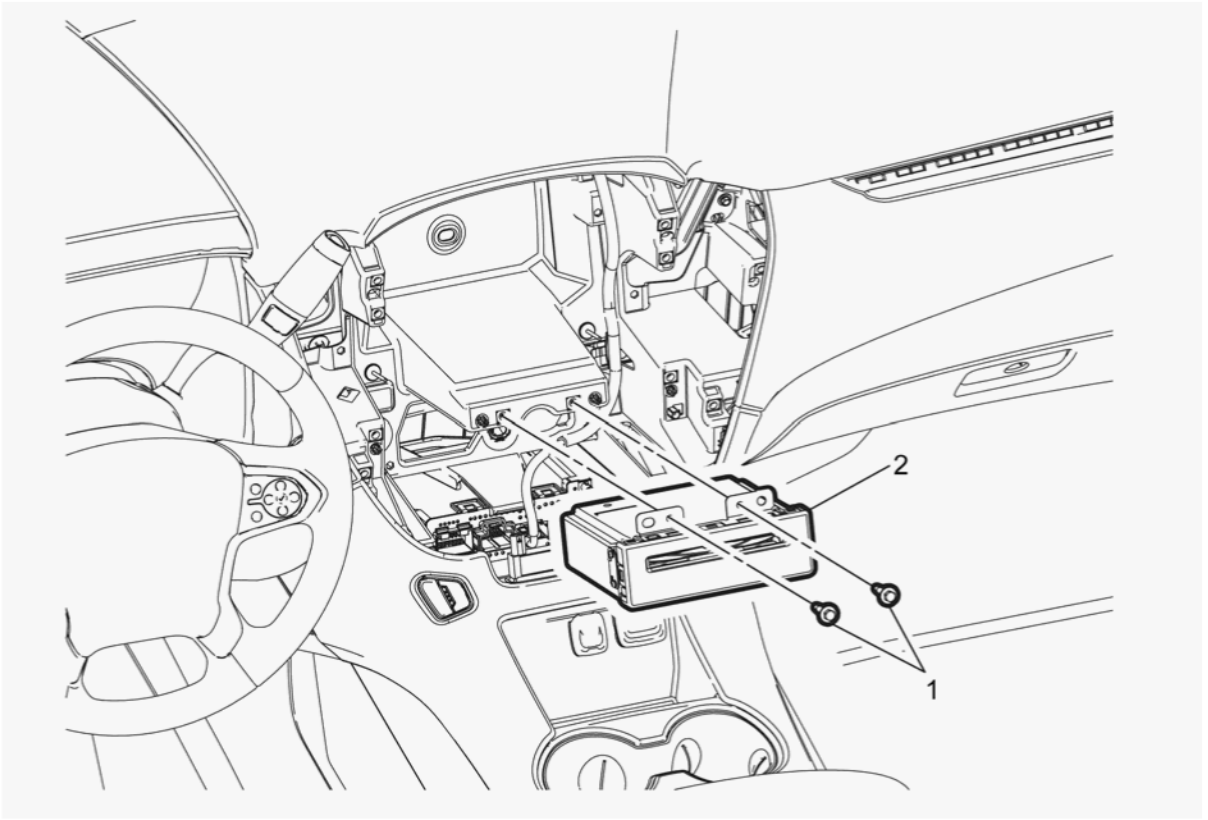


Fig. 62: Disc Player
Courtesy of GENERAL MOTORS COMPANY

10. Remove the disc player (2). Refer to **Disc Player Replacement** .

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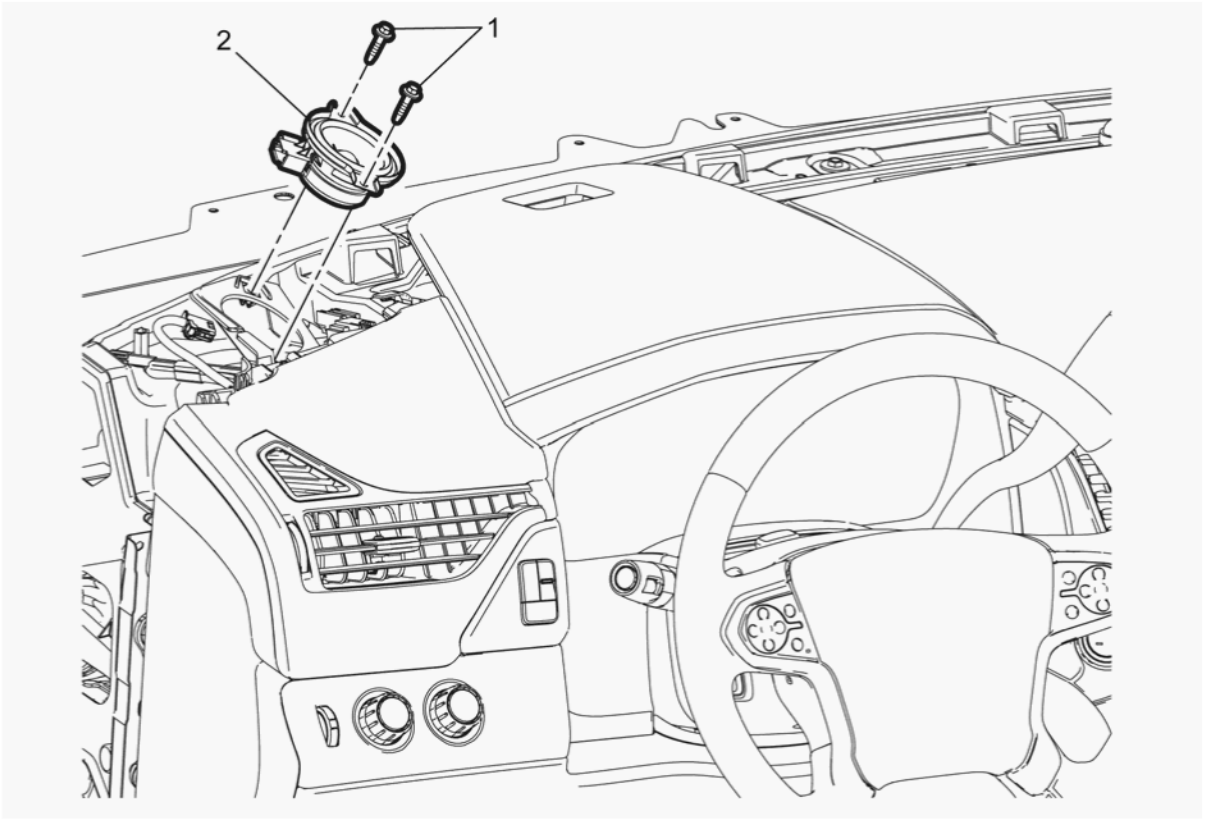


Fig. 63: Left And Right Radio Speakers
Courtesy of GENERAL MOTORS COMPANY

11. Remove the left and right radio speakers (2). Refer to **Radio Speaker Replacement (Chevrolet / GMC)** .

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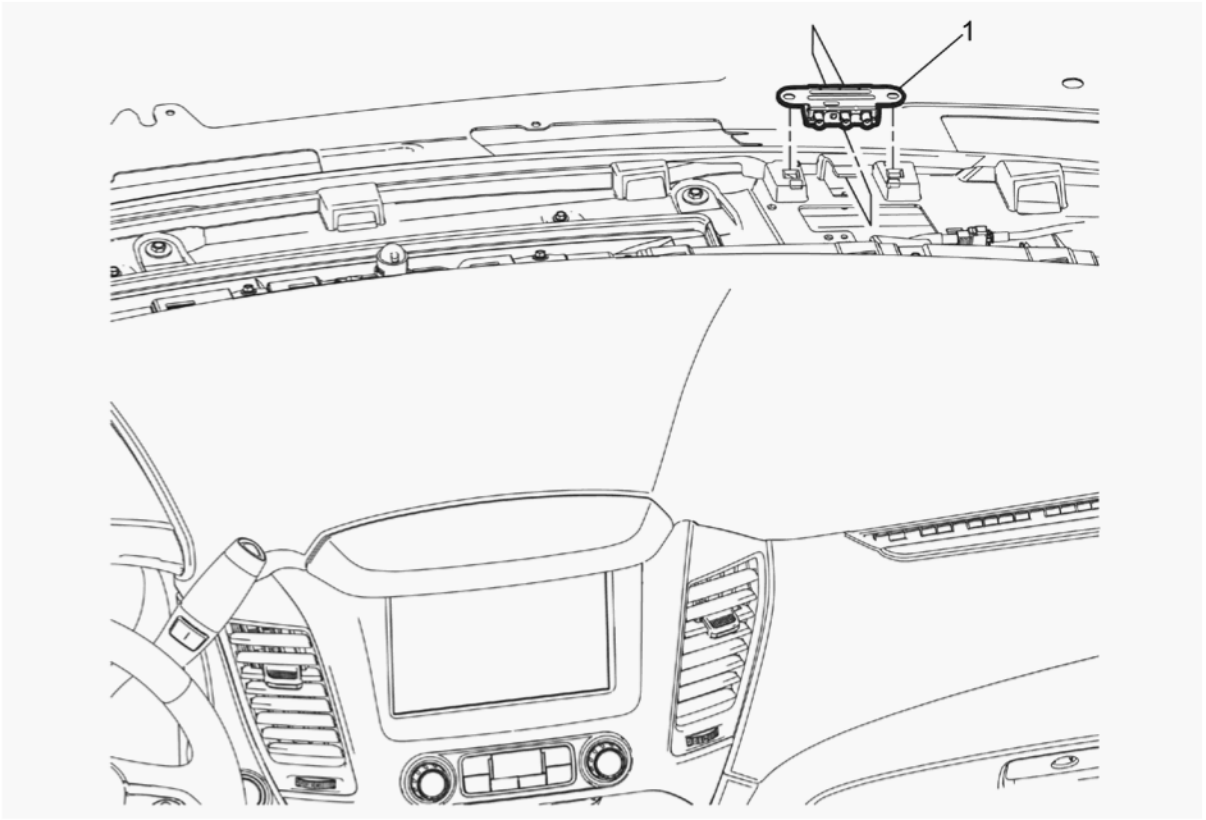


Fig. 64: Navigation Signal Splitter
Courtesy of GENERAL MOTORS COMPANY

12. Remove the navigation signal splitter (1). Refer to **Navigation Signal Splitter Replacement (Chevrolet / GMC)** .

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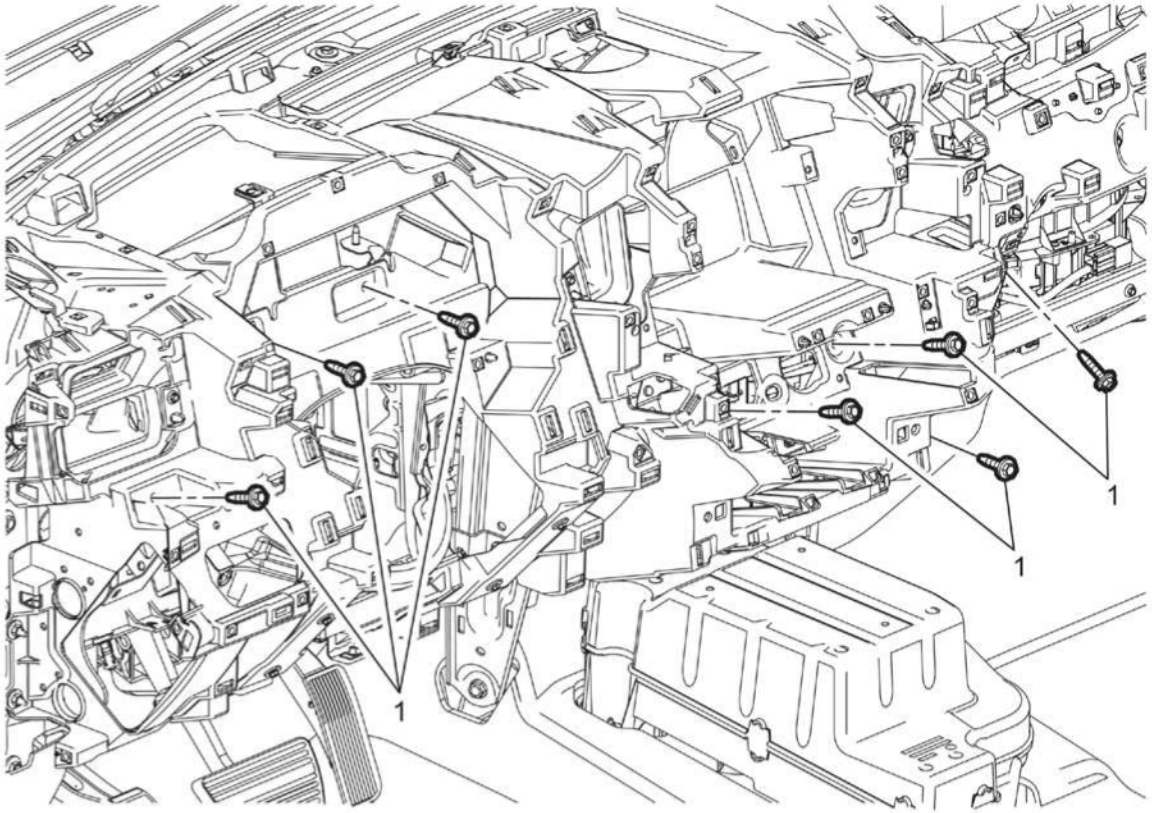


Fig. 65: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

13. Remove the instrument carrier fasteners (1).

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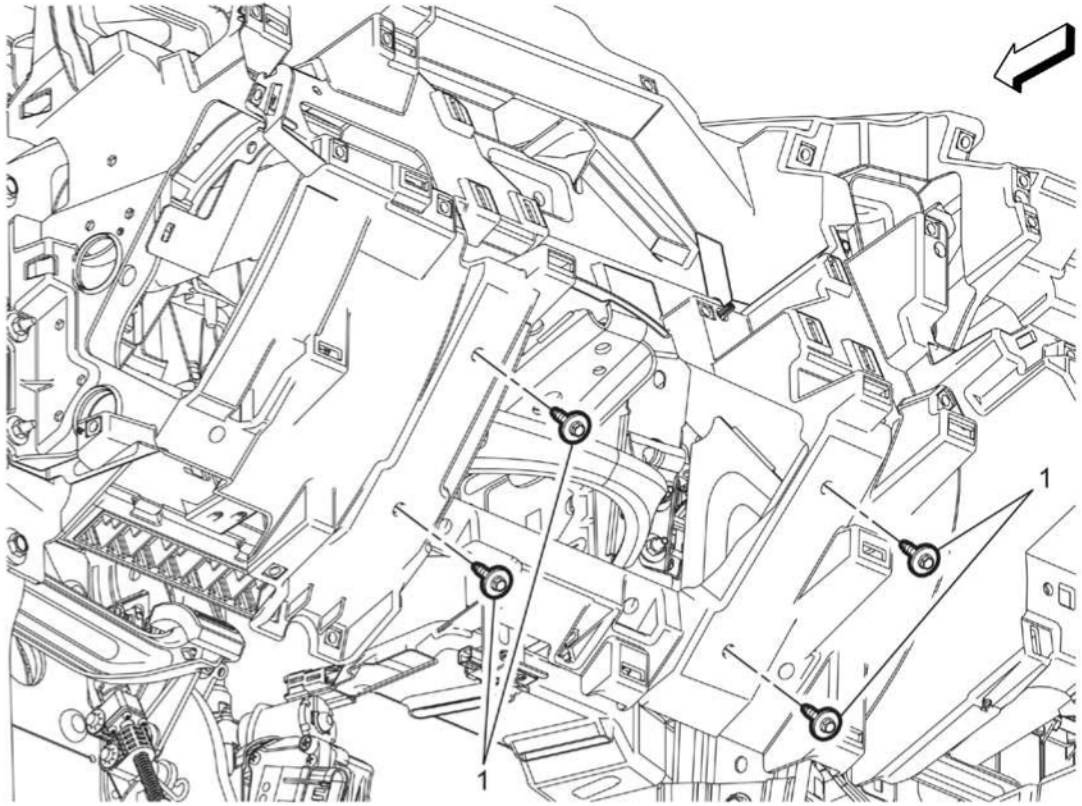


Fig. 66: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

14. Remove the instrument carrier fasteners (1).

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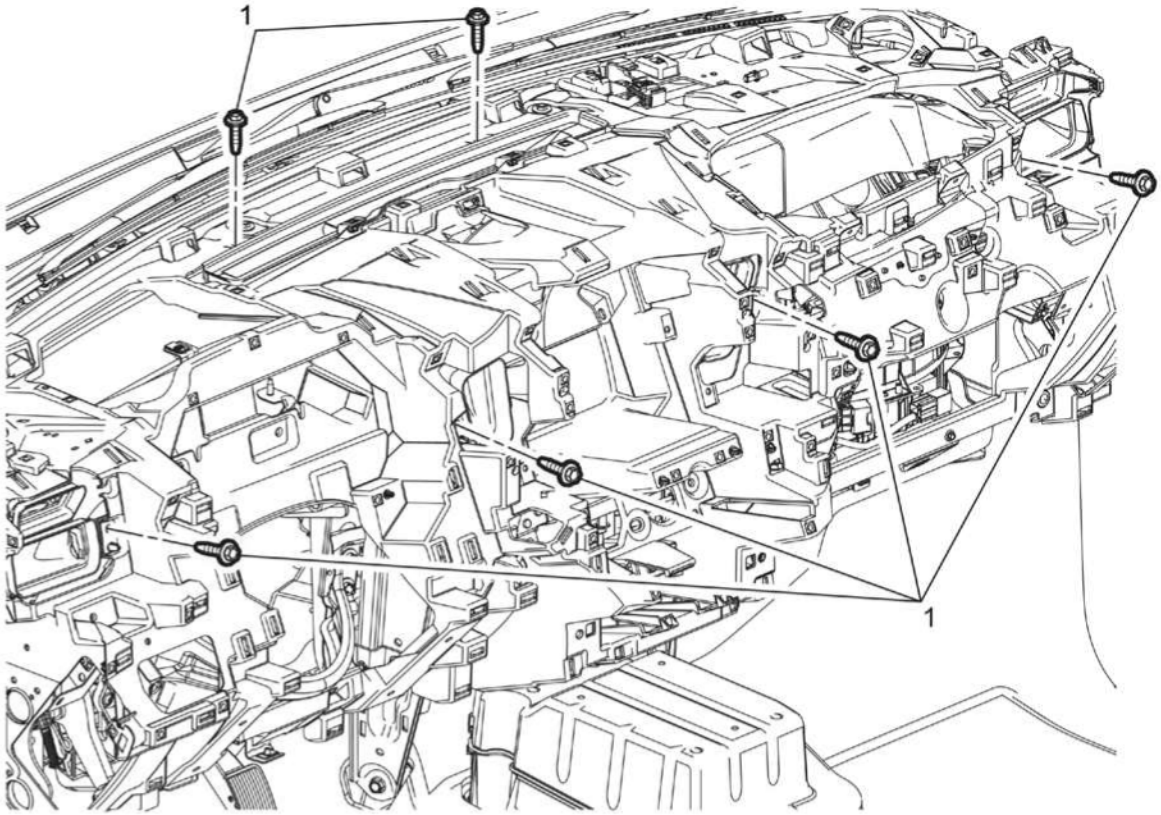


Fig. 67: Instrument Panel Center And Outer Air Outlet Fasteners
Courtesy of GENERAL MOTORS COMPANY

15. Remove the instrument panel center and outer air outlet fasteners (1).

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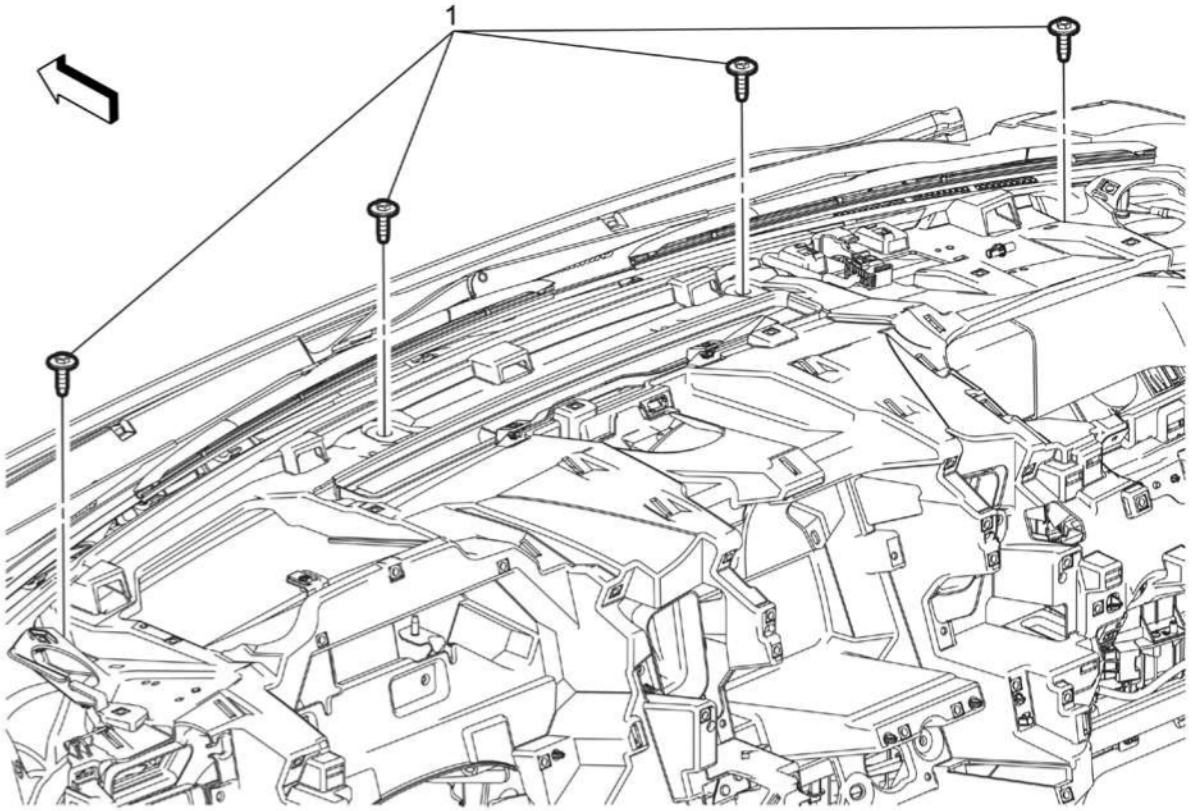


Fig. 68: Instrument Panel Upper Trim Panel Fasteners
Courtesy of GENERAL MOTORS COMPANY

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

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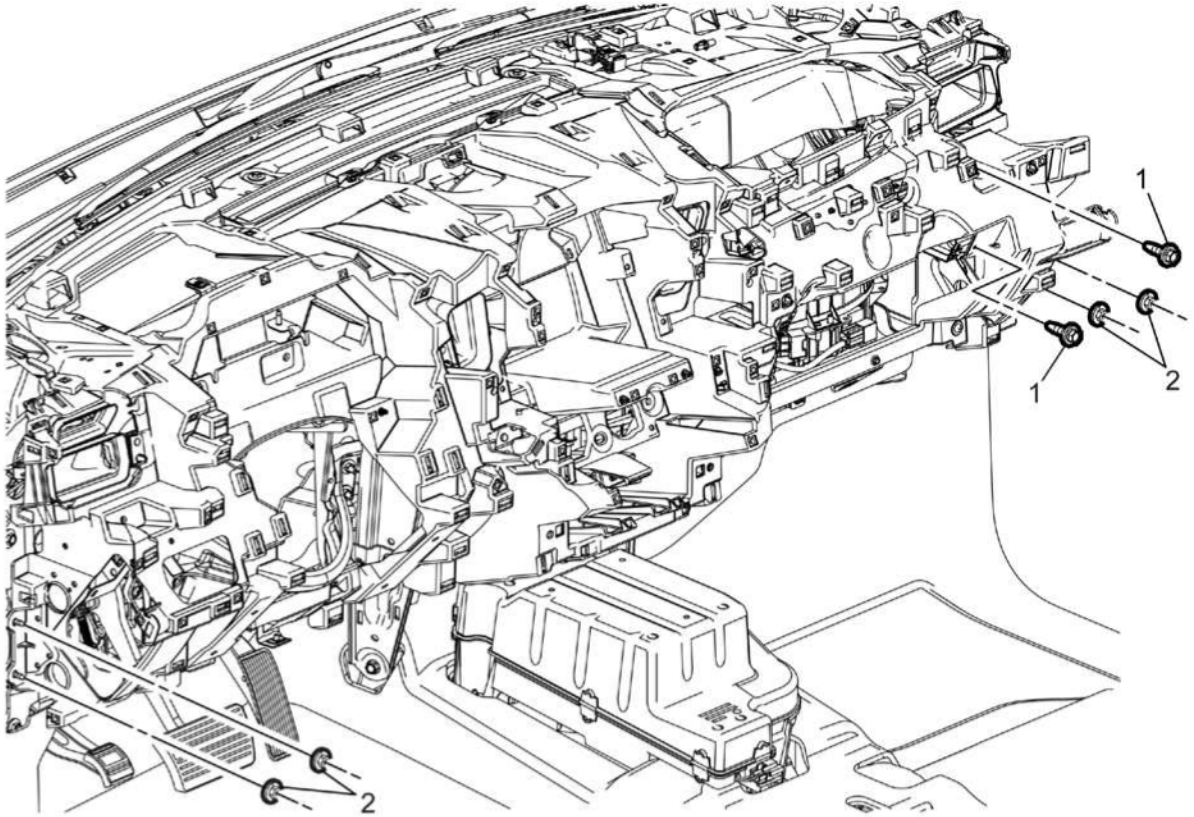


Fig. 69: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

17. Remove the instrument carrier fasteners (1).
18. Remove the instrument panel carrier nut (2).

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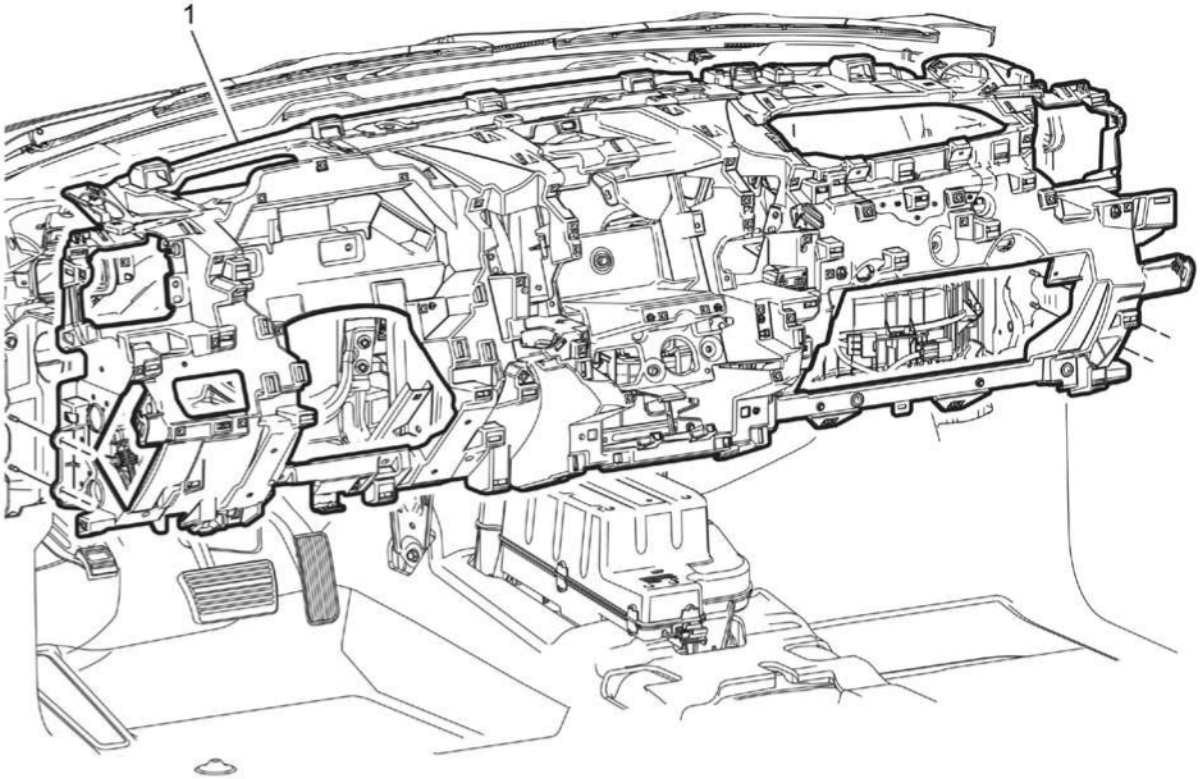


Fig. 70: Instrument Panel Carrier
Courtesy of GENERAL MOTORS COMPANY

19. Note location and routing of the instrument panel wiring harness prior to removal of the instrument panel carrier to ensure proper reinstallation.
20. Remove the data link connector fasteners and position the data link connector out of the way.
21. Remove the right and left front floor flood lamps. Refer to **Front Floor Flood Lamp Replacement (Right Side)** **Front Floor Flood Lamp Replacement (Left Side)** .
22. Disconnect the wiring harness from the instrument panel carrier.
23. With the aid of an assistant, remove the instrument panel carrier (1) from the vehicle.

Installation Procedure

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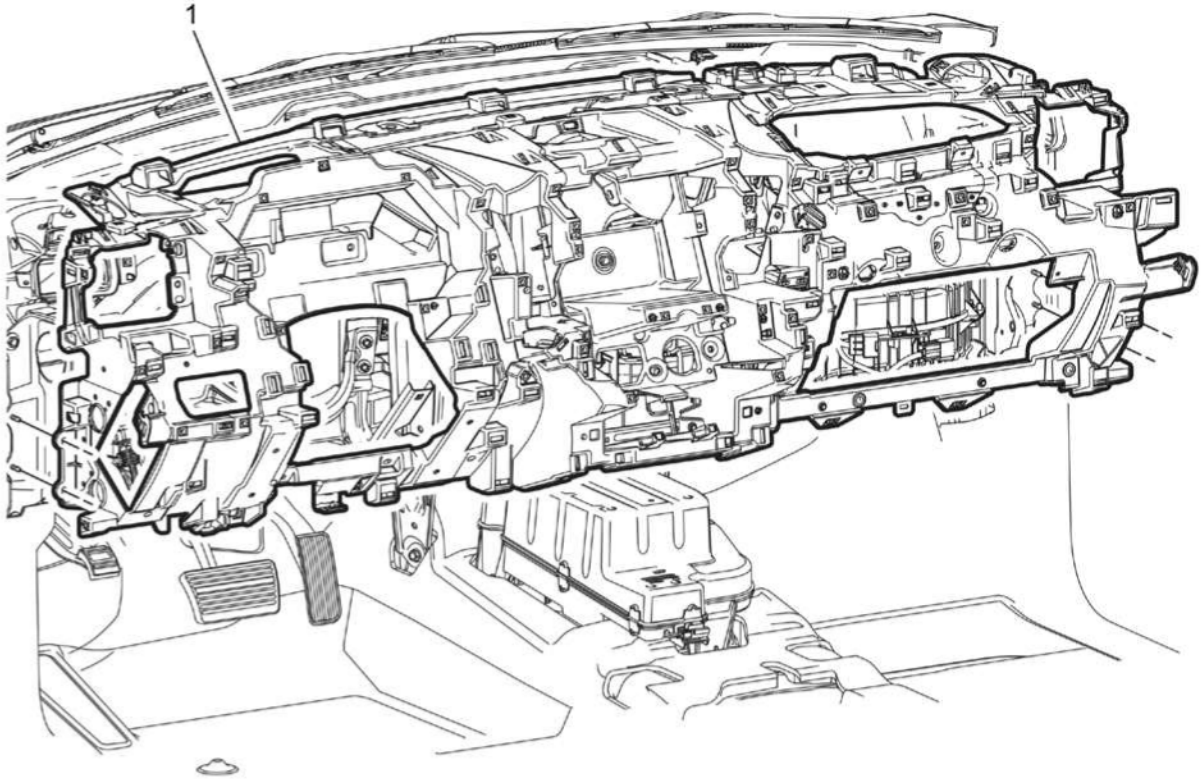


Fig. 71: Instrument Panel Carrier
Courtesy of GENERAL MOTORS COMPANY

1. With the aid of an assistant, position the instrument panel carrier (1) into the vehicle.
2. 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.
3. Install the right and left front floor flood lamps. Refer to **Front Floor Flood Lamp Replacement (Right Side)** **Front Floor Flood Lamp Replacement (Left Side)** .
4. Install the data link connector.

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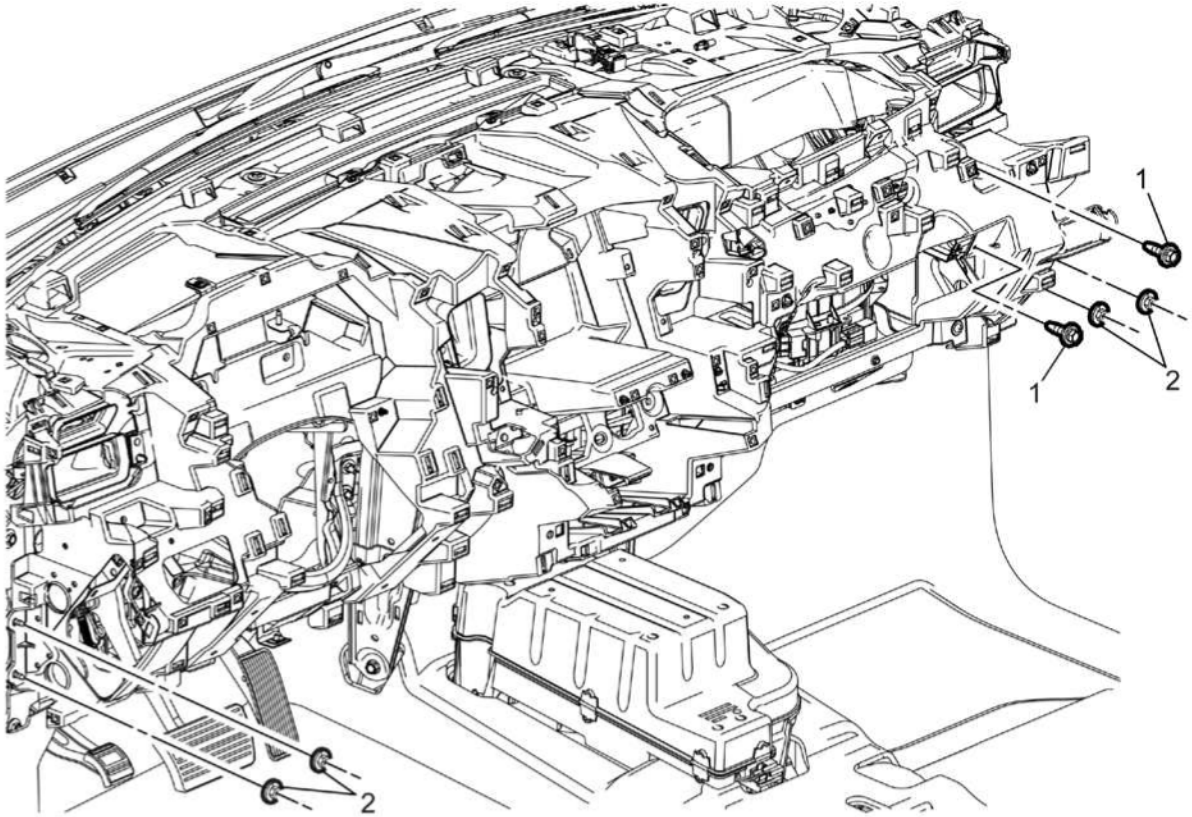


Fig. 72: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

5. Install the instrument panel carrier nuts (2) and tighten to 9 N.m (80 lb in).
6. Install the instrument carrier fasteners (1) and tighten to 2.5 N.m (22 lb in).

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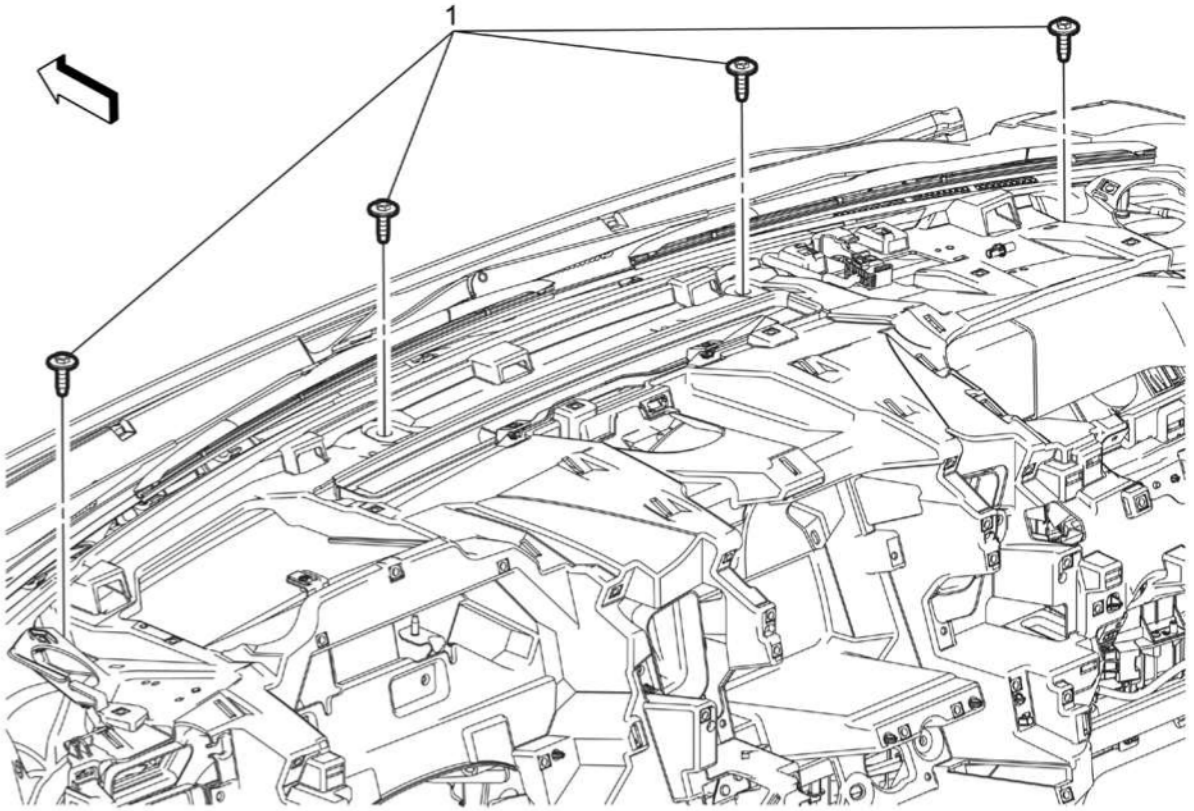


Fig. 73: Instrument Panel Upper Trim Panel Fasteners
Courtesy of GENERAL MOTORS COMPANY

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

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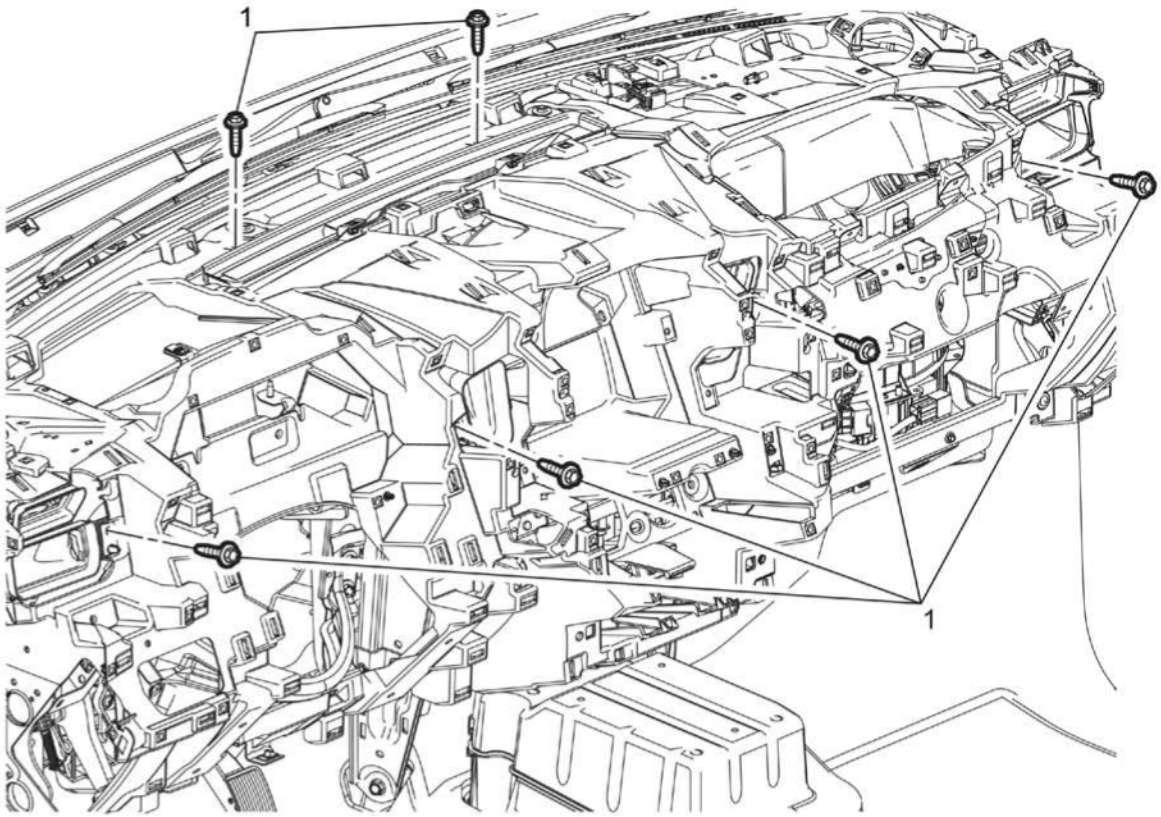


Fig. 74: Instrument Panel Center And Outer Air Outlet Fasteners
Courtesy of GENERAL MOTORS COMPANY

8. Install the instrument panel center and outer air outlet fasteners (1) and tighten to 2.5 N.m (22 lb in).

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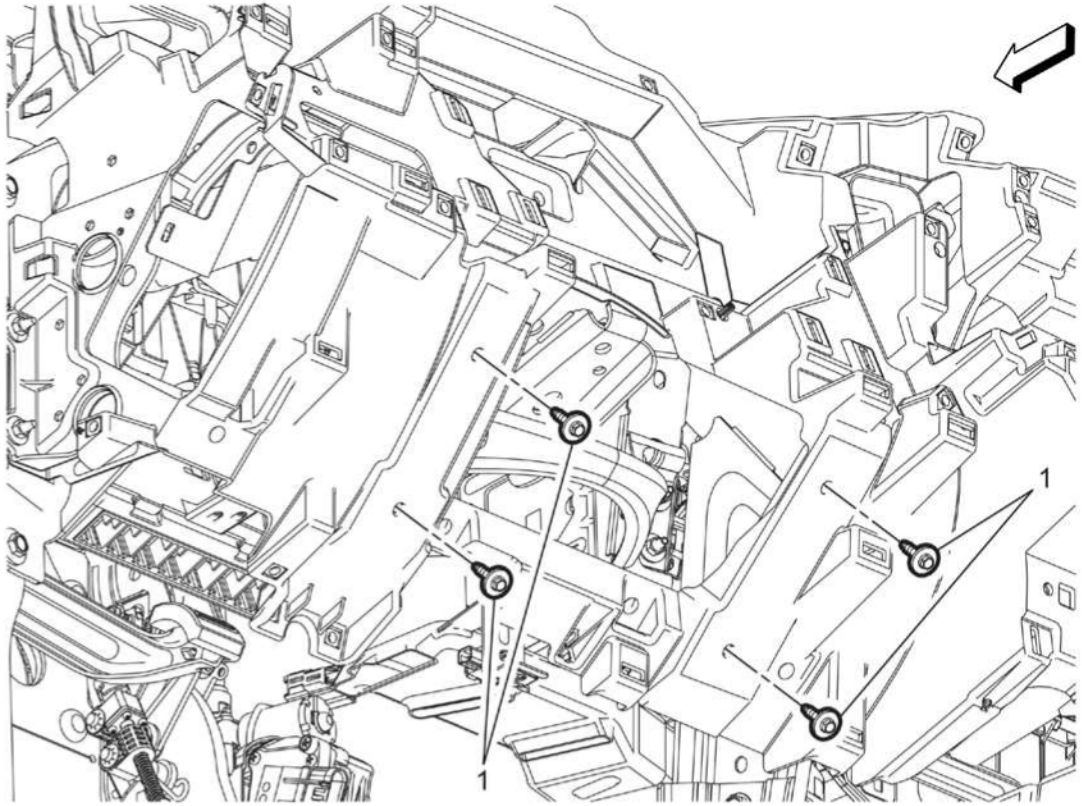


Fig. 75: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

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

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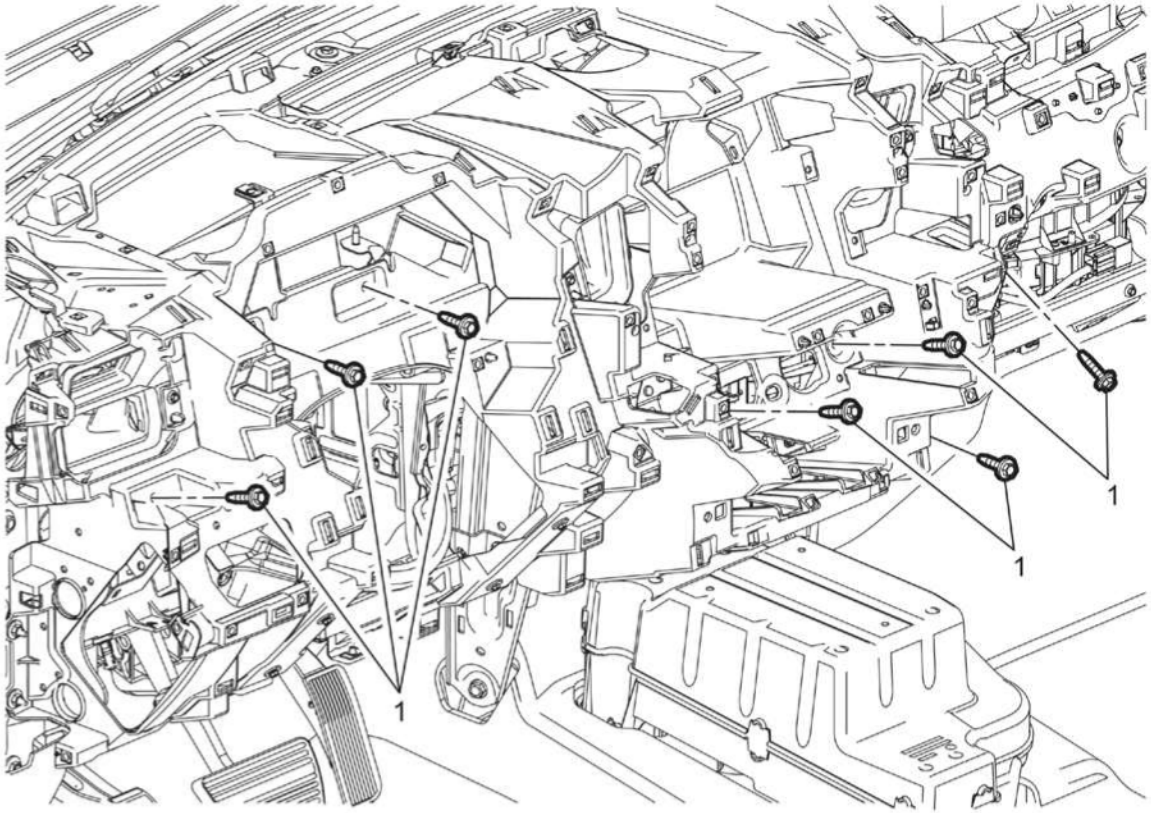


Fig. 76: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

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

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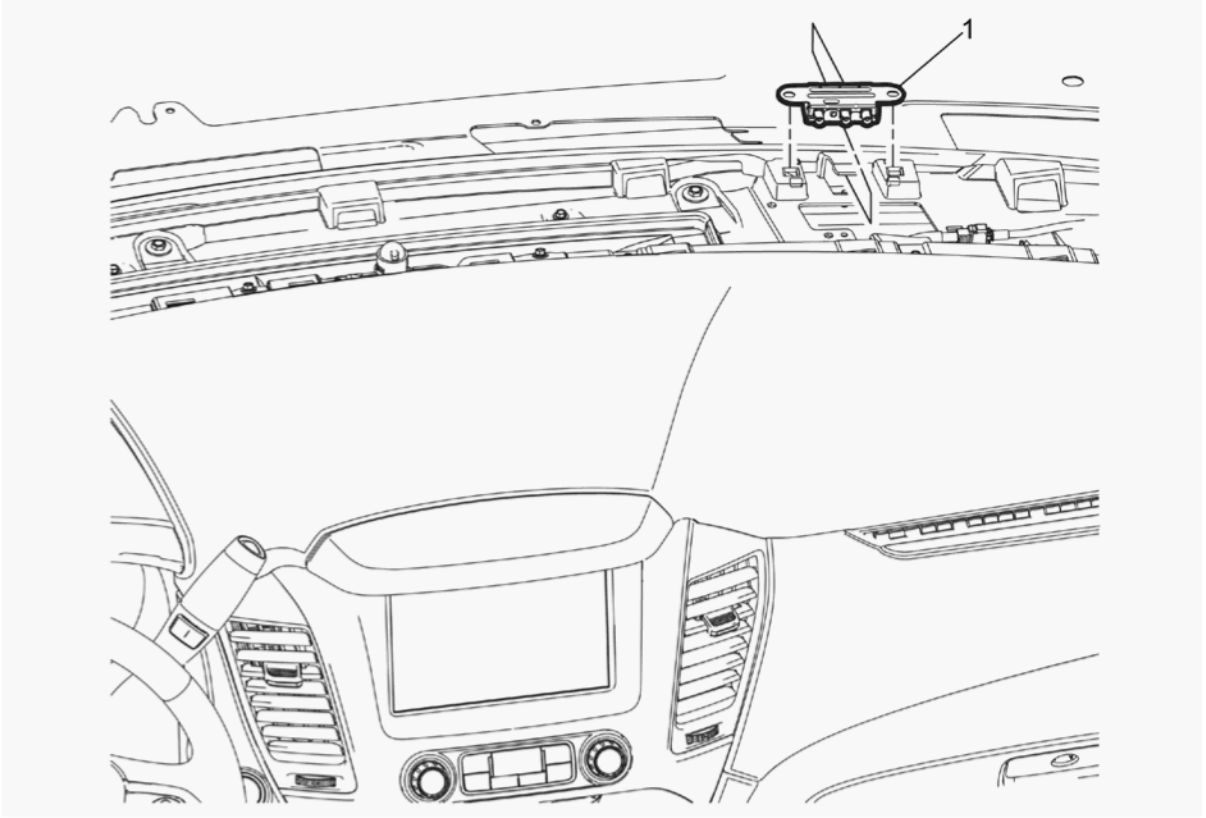


Fig. 77: Navigation Signal Splitter
Courtesy of GENERAL MOTORS COMPANY

11. Install the navigation signal splitter (1). Refer to **Navigation Signal Splitter Replacement (Chevrolet / GMC)** .

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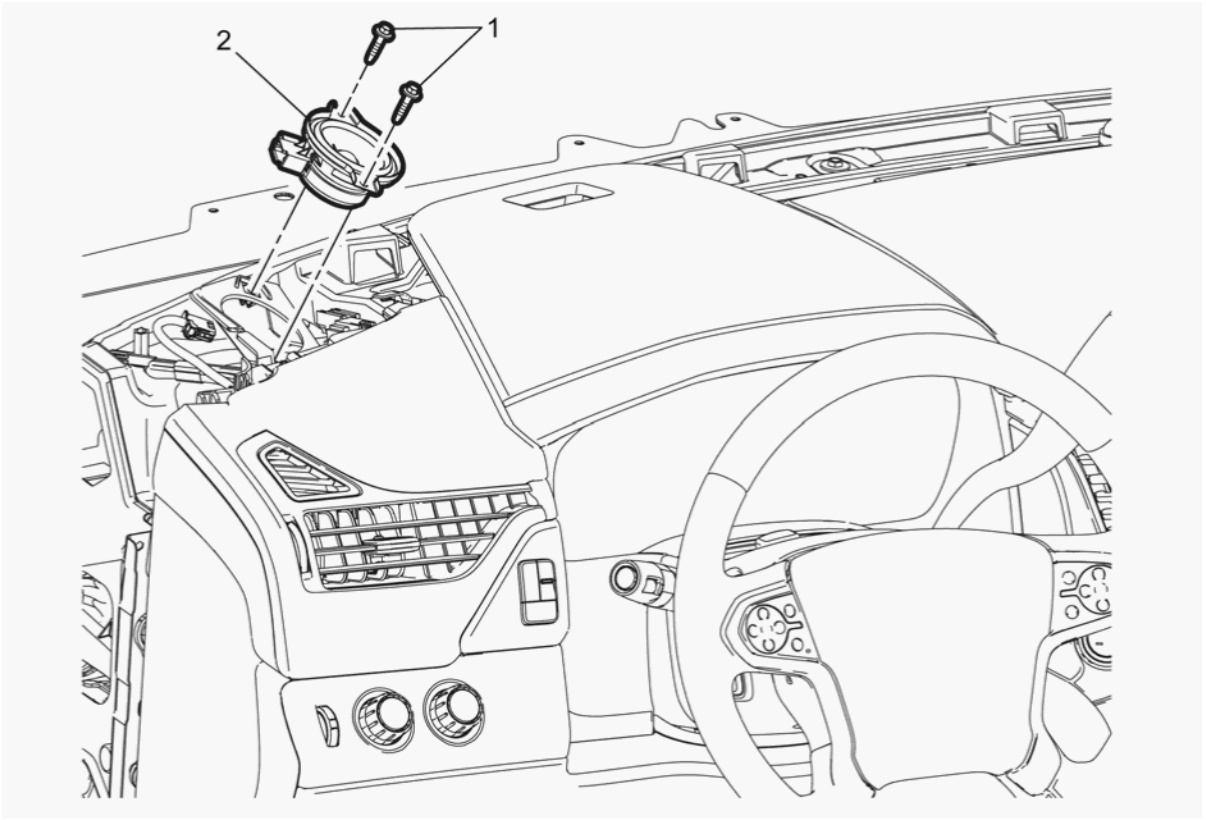


Fig. 78: Left And Right Radio Speakers
Courtesy of GENERAL MOTORS COMPANY

12. Install the left and right radio speakers (2). Refer to **Radio Speaker Replacement (Chevrolet / GMC)** .

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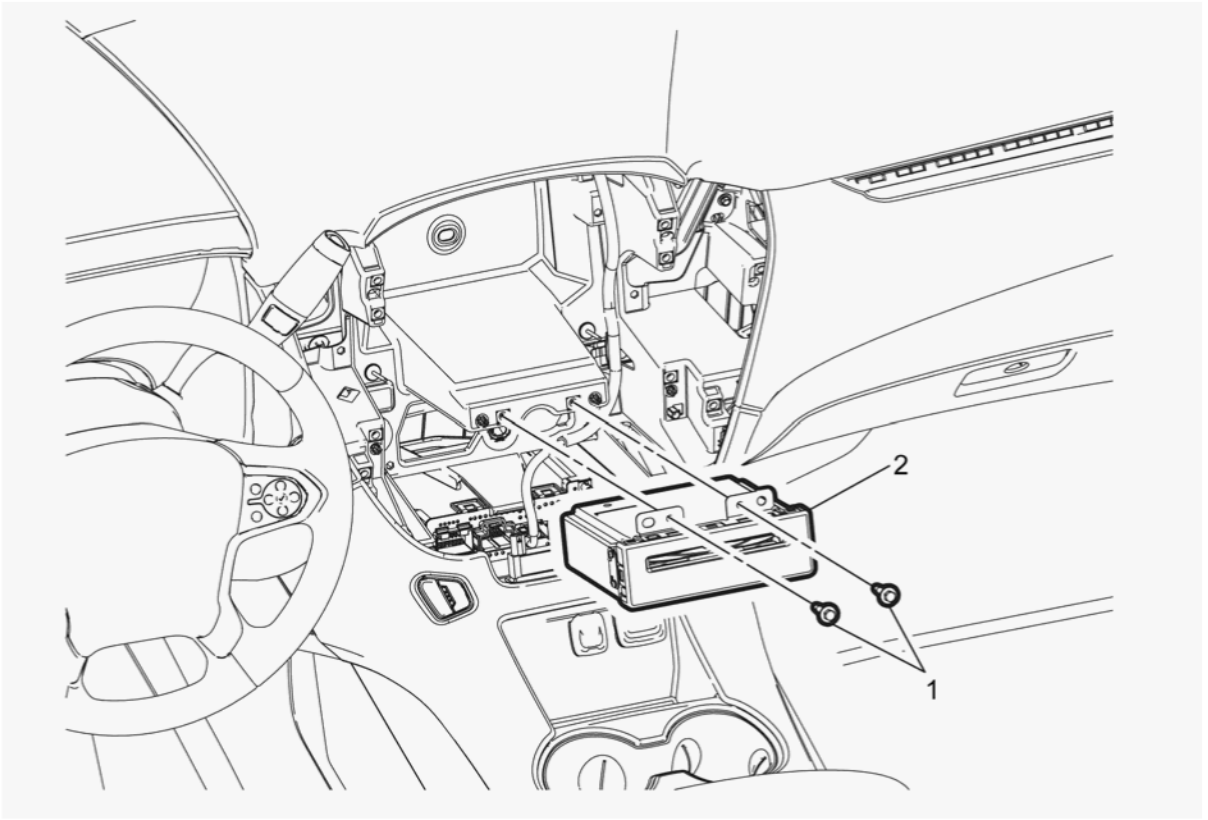


Fig. 79: Disc Player
Courtesy of GENERAL MOTORS COMPANY

13. Install the disc player (2). Refer to **Disc Player Replacement** .

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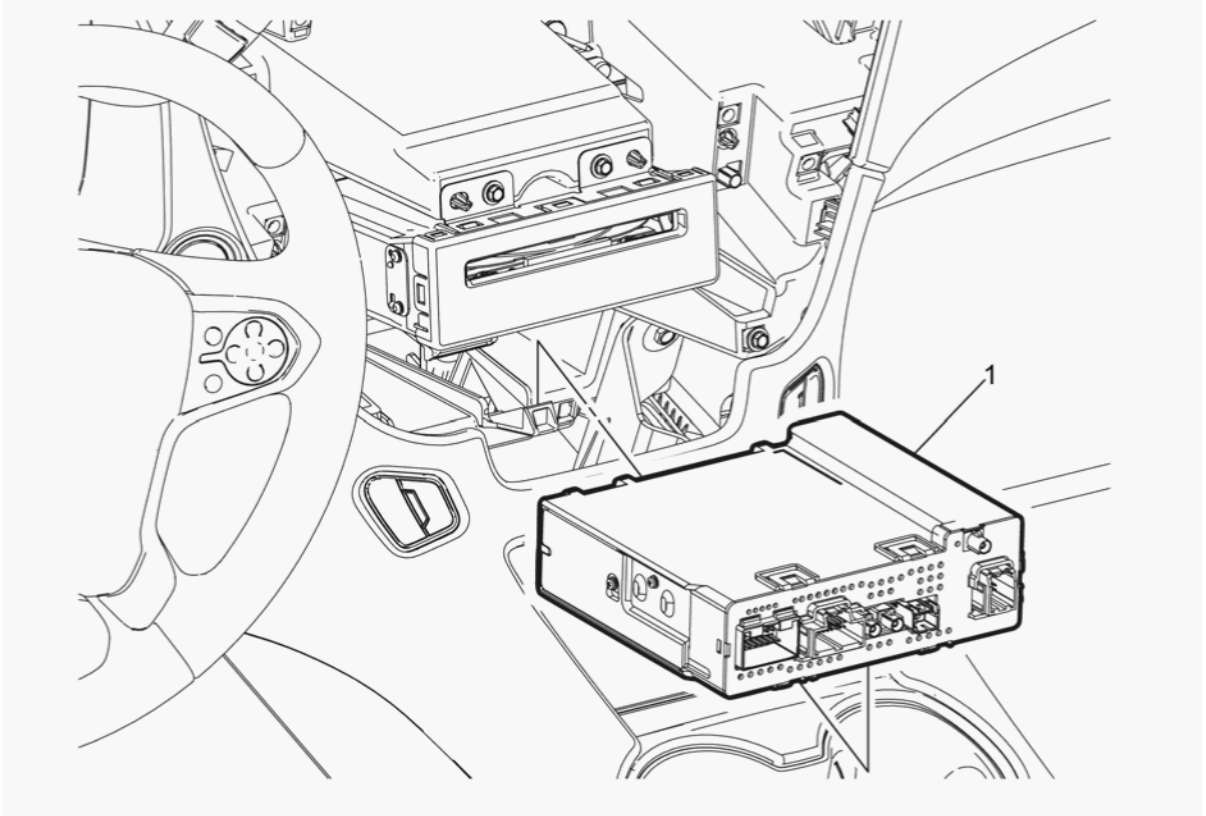


Fig. 80: Radio
Courtesy of GENERAL MOTORS COMPANY

14. Install the radio (1). Refer to **Radio Replacement (Chevrolet / GMC with NGI)** **Radio Replacement (Chevrolet/GMC with IOB)** .

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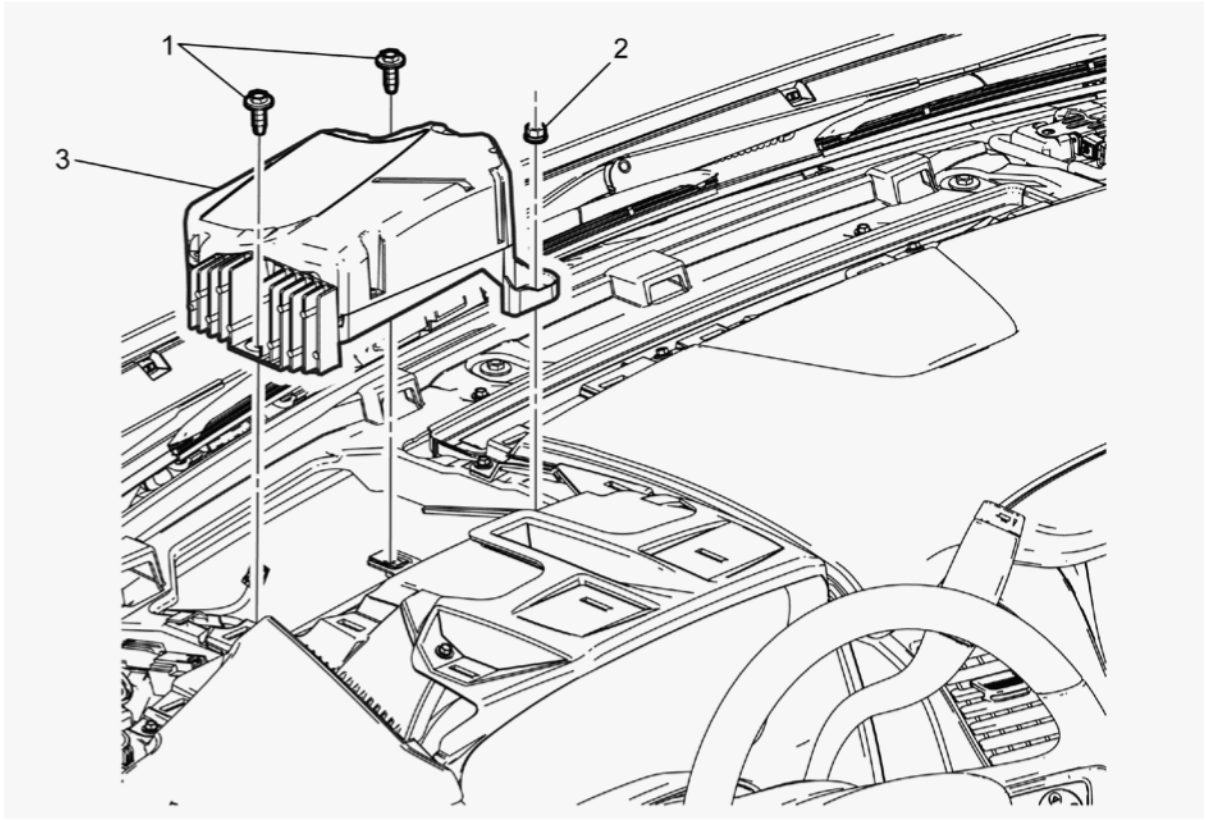


Fig. 81: Head-Up Display (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

15. Install the head-up display (3), if equipped. Refer to **Head-Up Display Replacement (Chevrolet / GMC)** .

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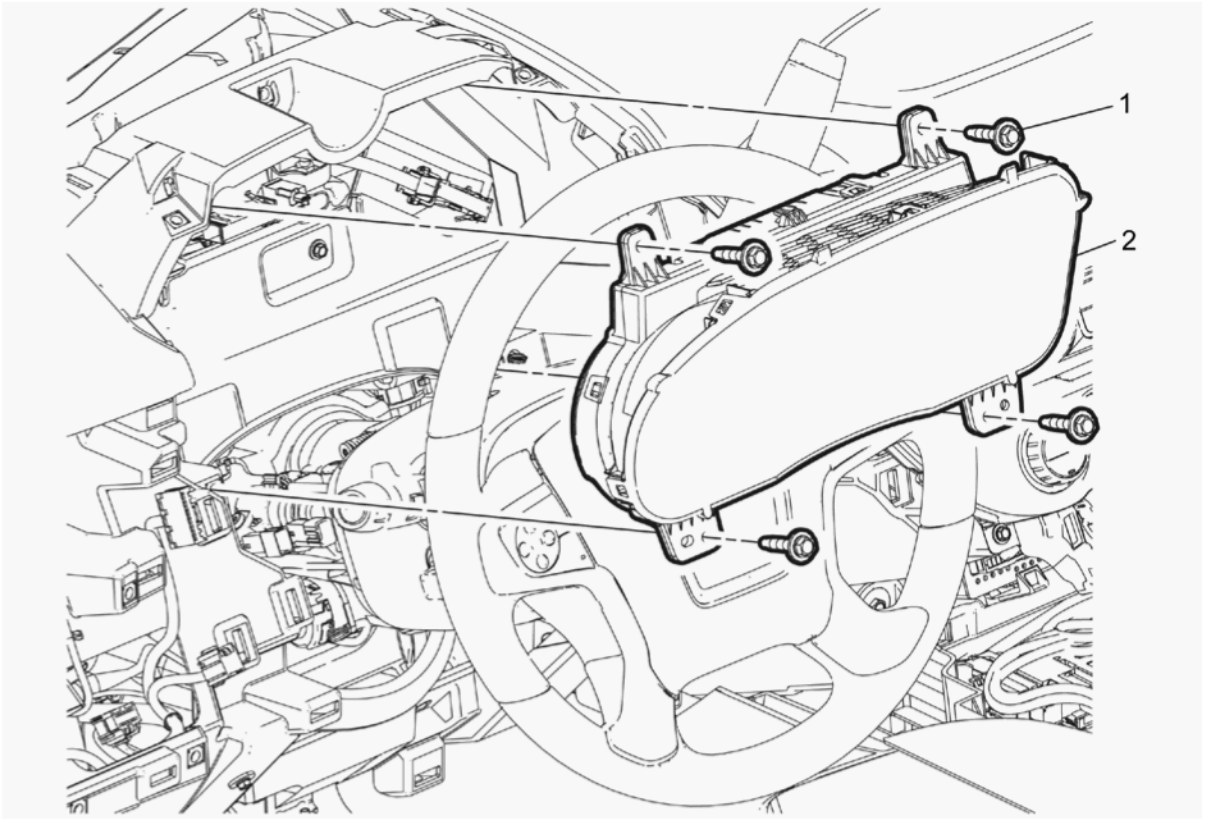


Fig. 82: Instrument Cluster
Courtesy of GENERAL MOTORS COMPANY

16. Install the instrument cluster (2). Refer to **Instrument Cluster Replacement (Chevrolet / GMC)** .

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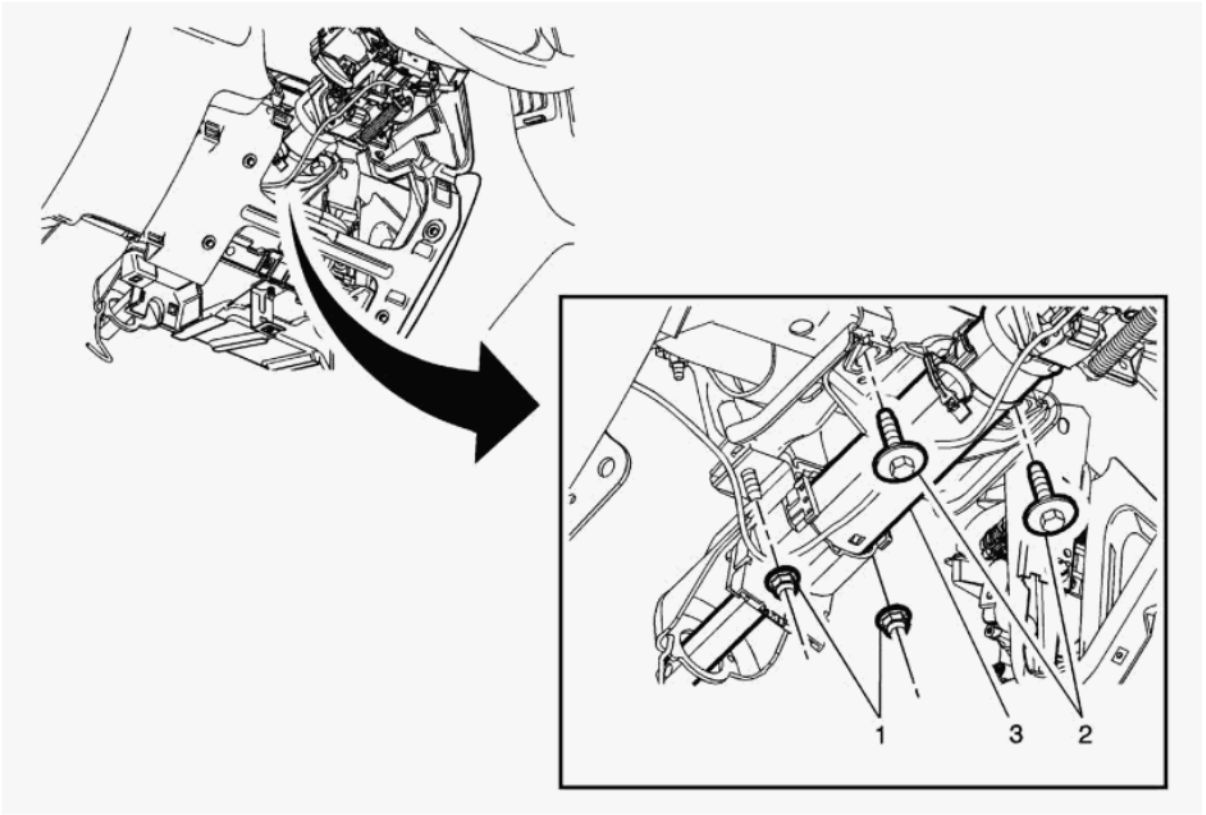


Fig. 83: Steering Column
Courtesy of GENERAL MOTORS COMPANY

17. Install the steering column (3). Refer to **Steering Column Replacement (N33, N37)** **Steering Column Replacement (N38)** .

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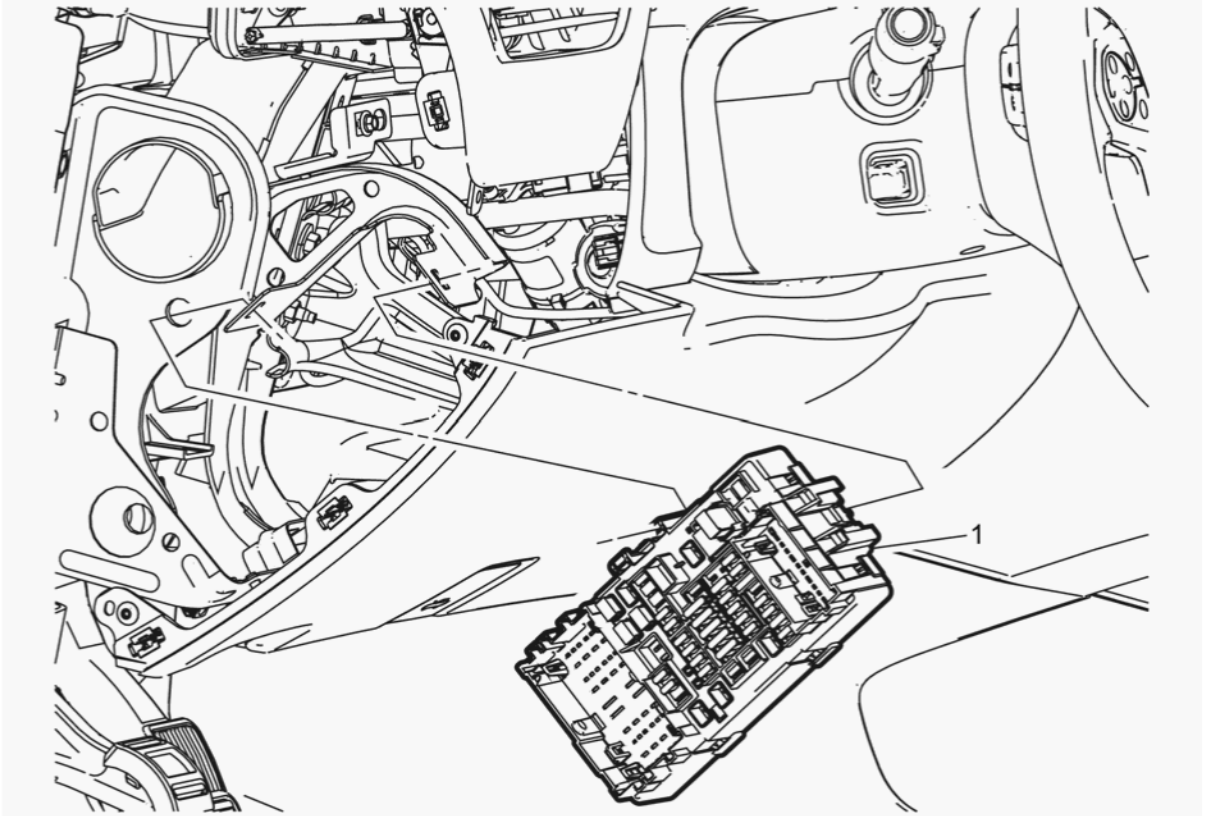


Fig. 84: Instrument Panel Wiring Harness Junction Blocks
Courtesy of GENERAL MOTORS COMPANY

18. Install both instrument panel wiring harness junction blocks (1). Refer to **Instrument Panel Wiring Harness Junction Block Replacement** .

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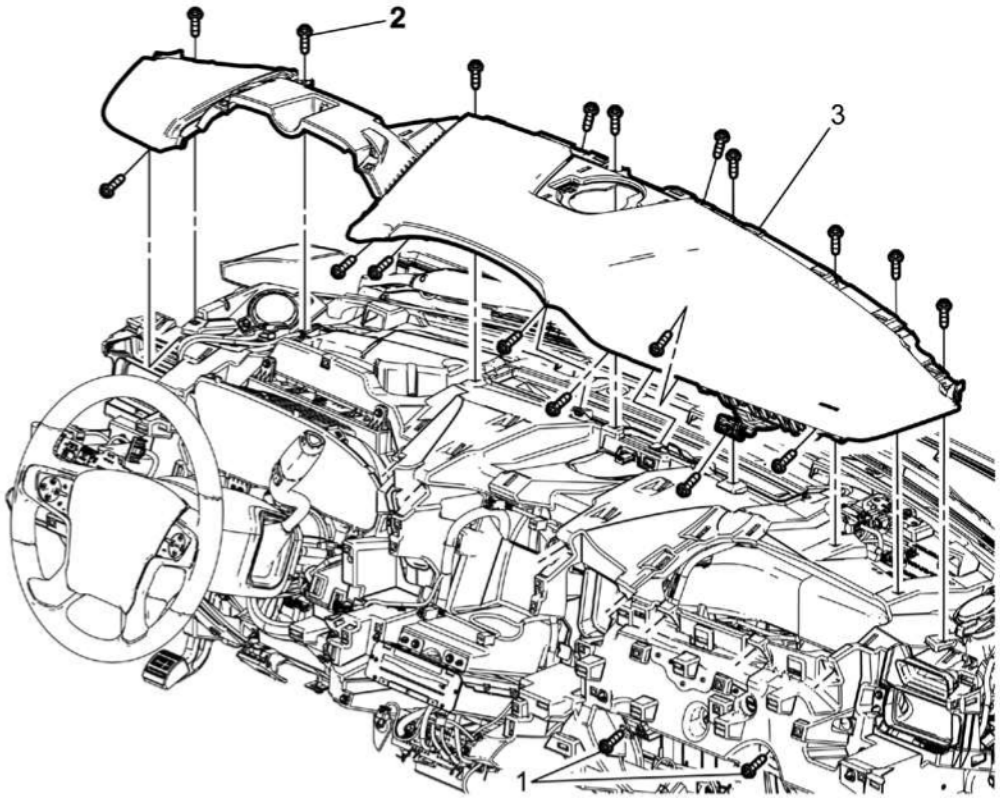


Fig. 85: Instrument Panel Upper Trim Panel
Courtesy of GENERAL MOTORS COMPANY

19. Install the instrument panel upper trim panel (3). Refer to **Instrument Panel Upper Trim Panel Replacement (Chevrolet / GMC)**.

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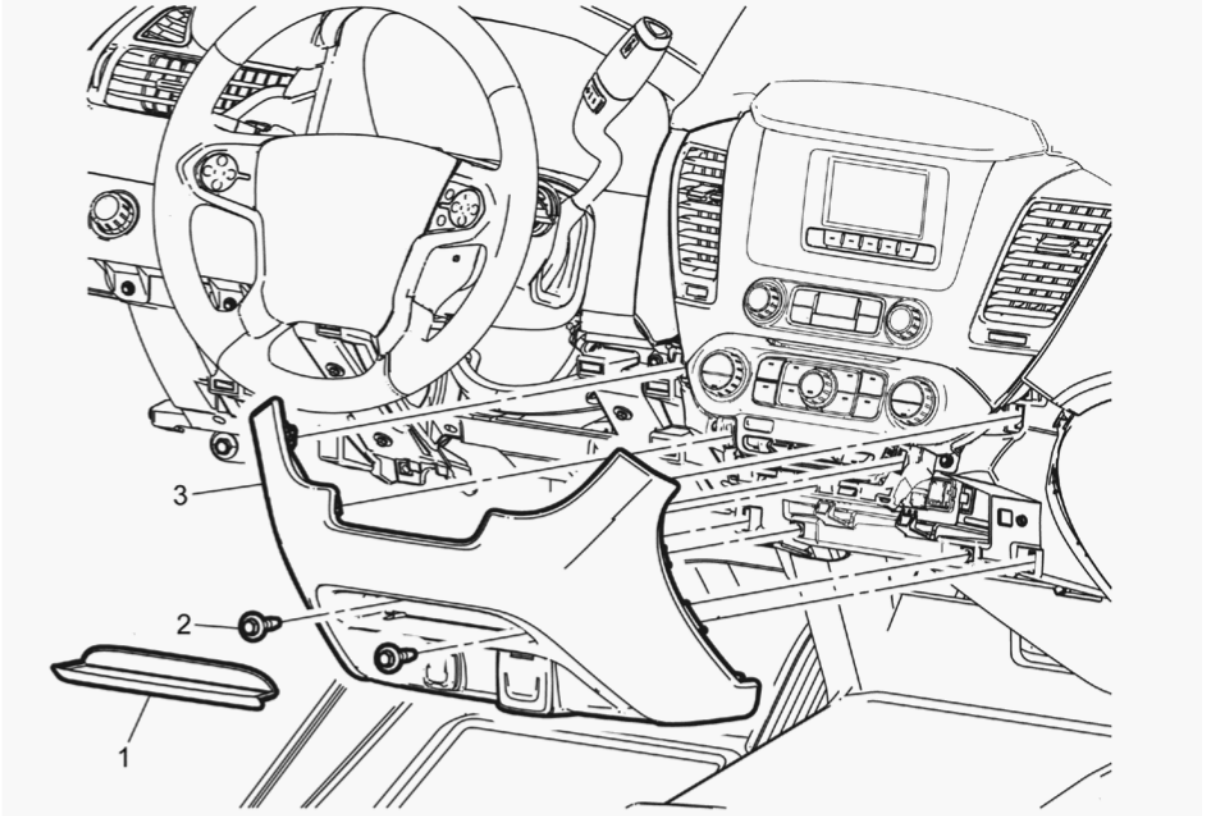


Fig. 86: Instrument Panel Center Compartment
Courtesy of GENERAL MOTORS COMPANY

20. Install the instrument panel center compartment (3), if equipped. Refer to **Instrument Panel Center Compartment Replacement (Chevrolet / GMC)**

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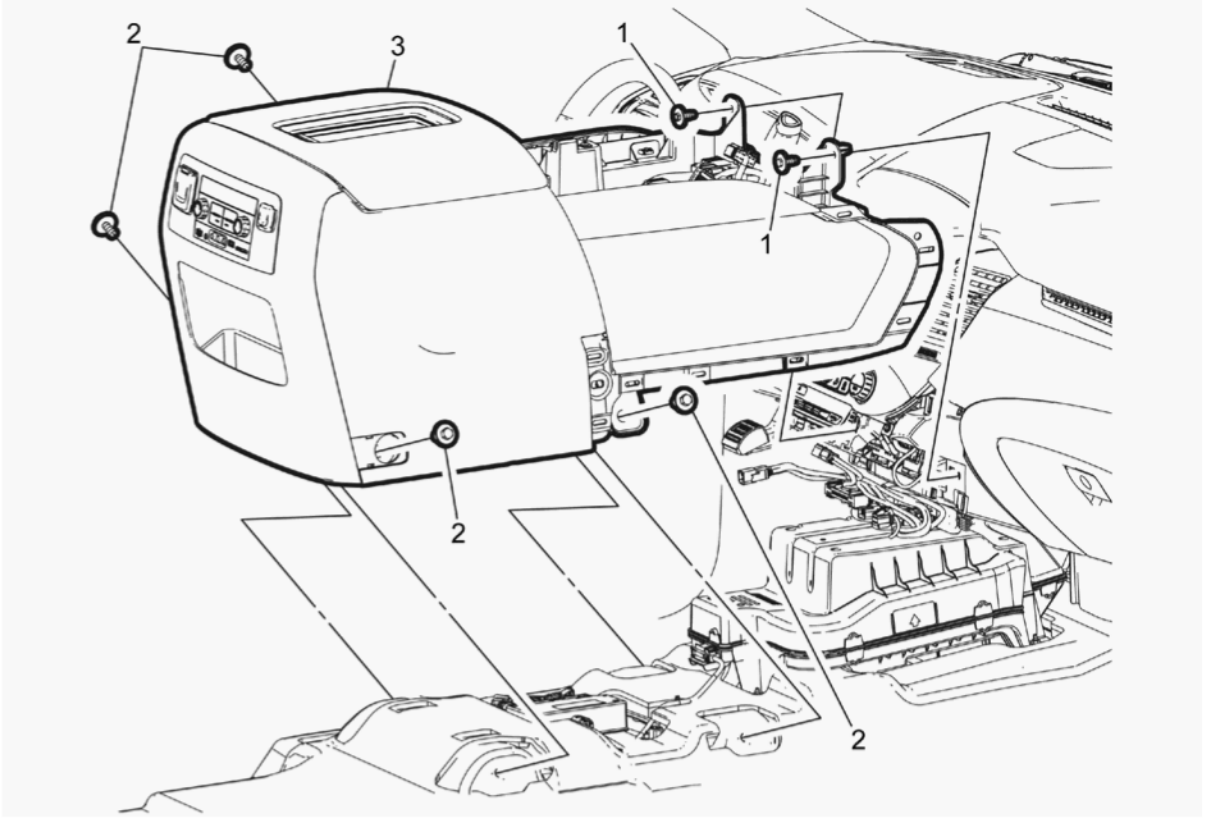


Fig. 87: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

21. Install the front floor console (3), if equipped. Refer to **Front Floor Console Replacement (Chevrolet / GMC)**.
22. Enable the SIR system. Refer to **SIR Disabling and Enabling** .

INSTRUMENT CARRIER REPLACEMENT (CADILLAC)

Removal Procedure

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

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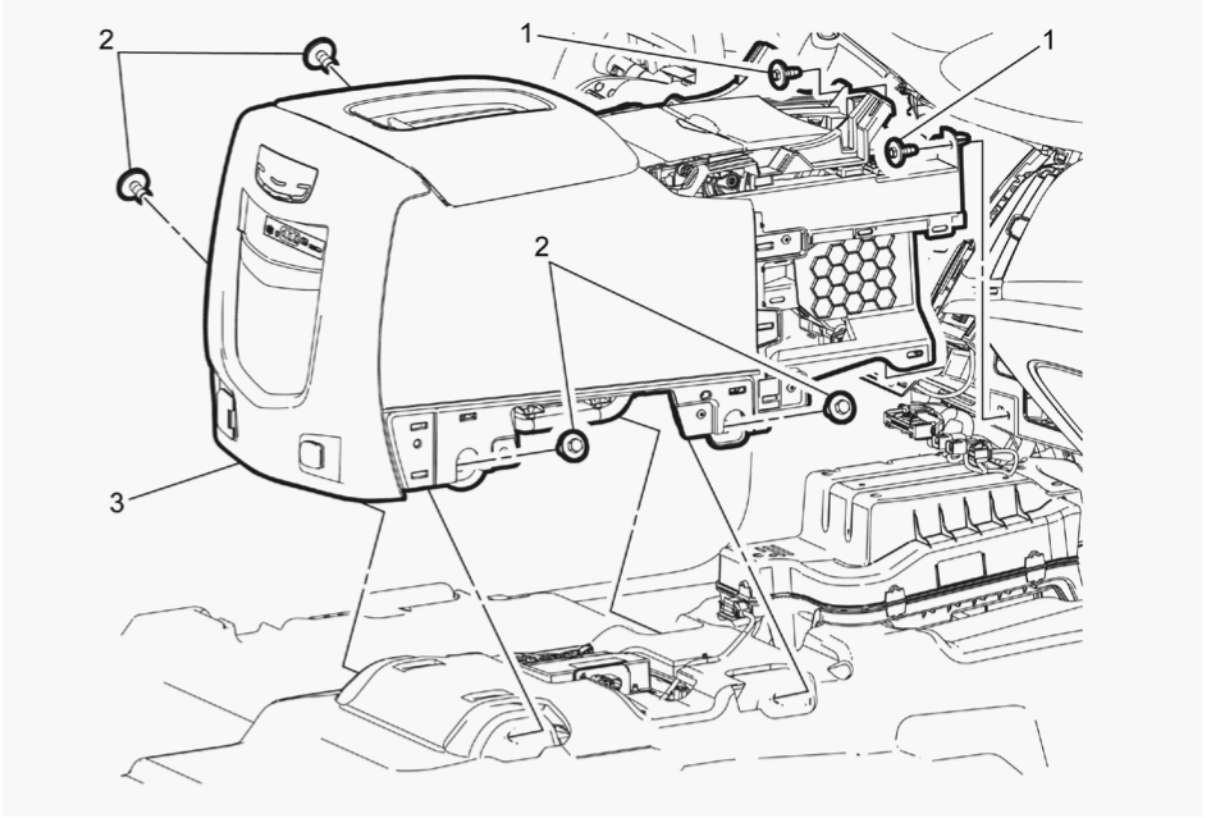


Fig. 88: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

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

2. Remove the front floor console (3). Refer to **Front Floor Console Replacement (Cadillac)**.

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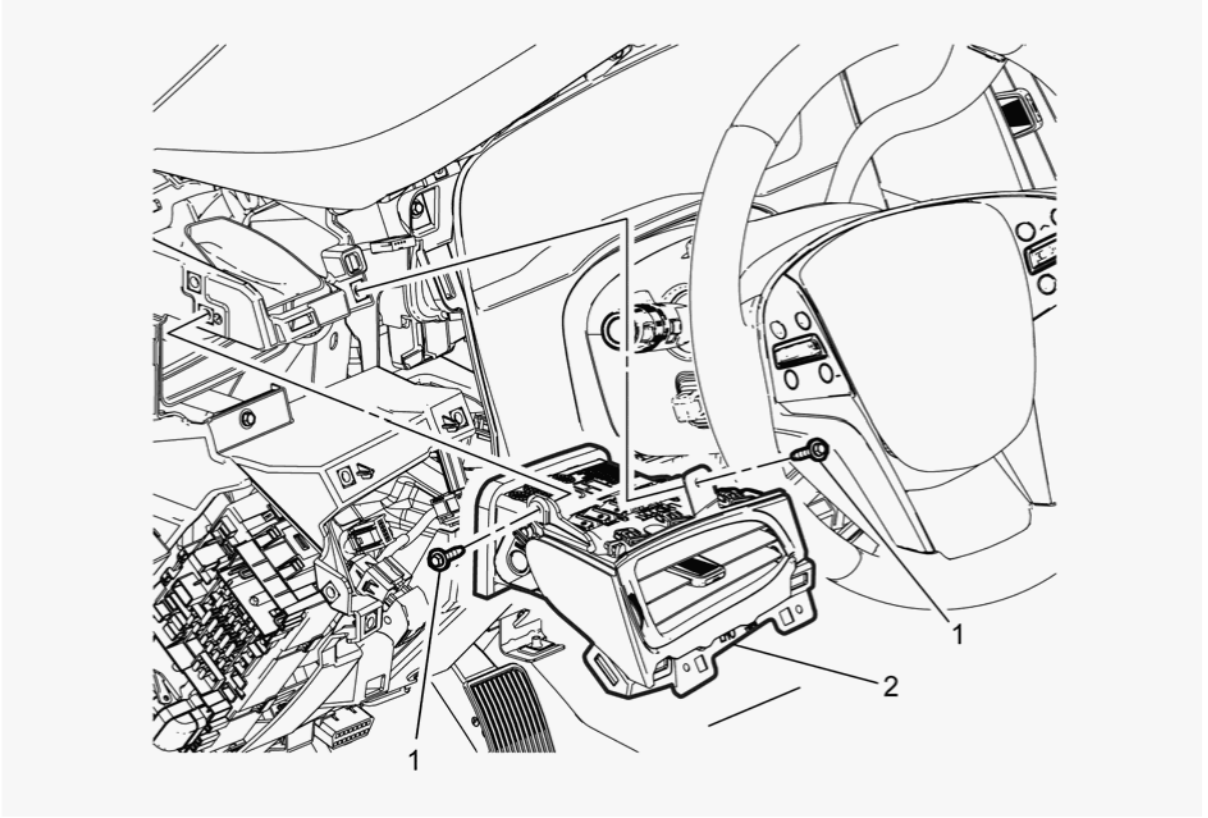


Fig. 89: Left Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

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

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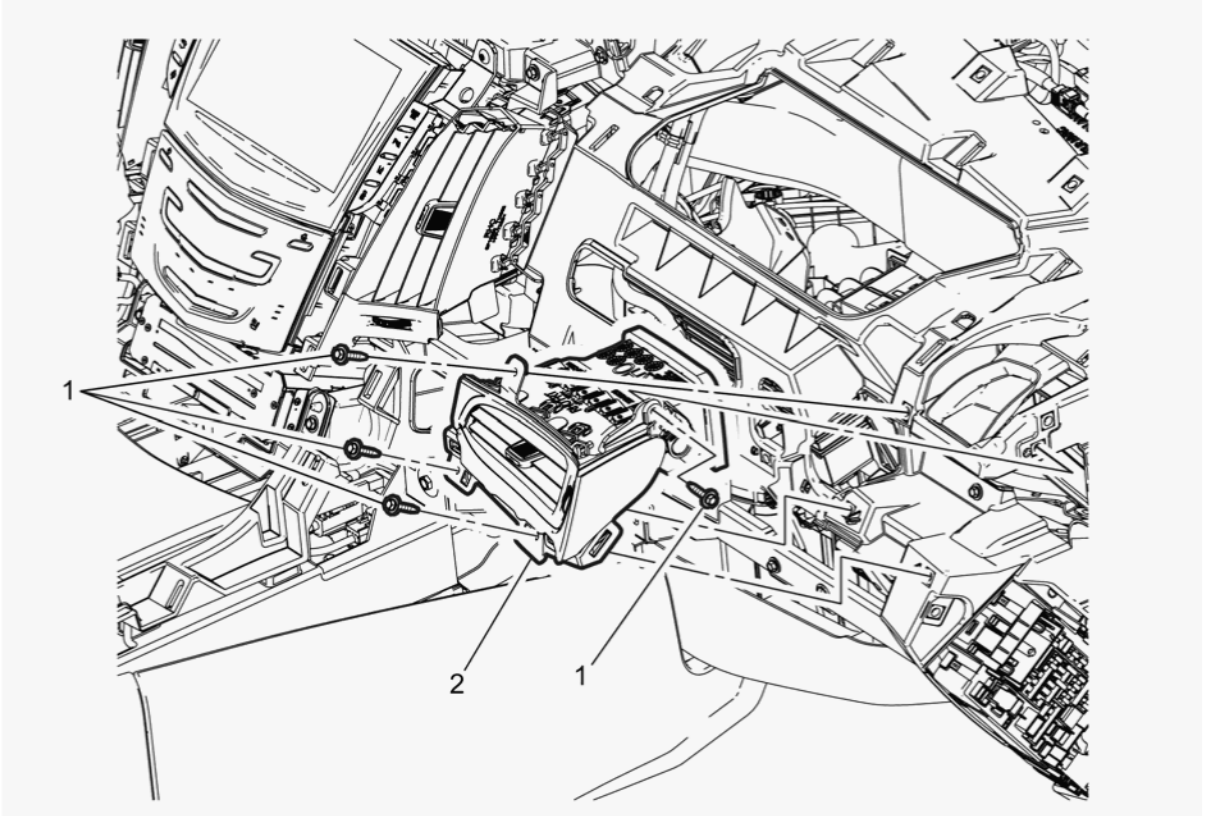


Fig. 90: Right Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

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

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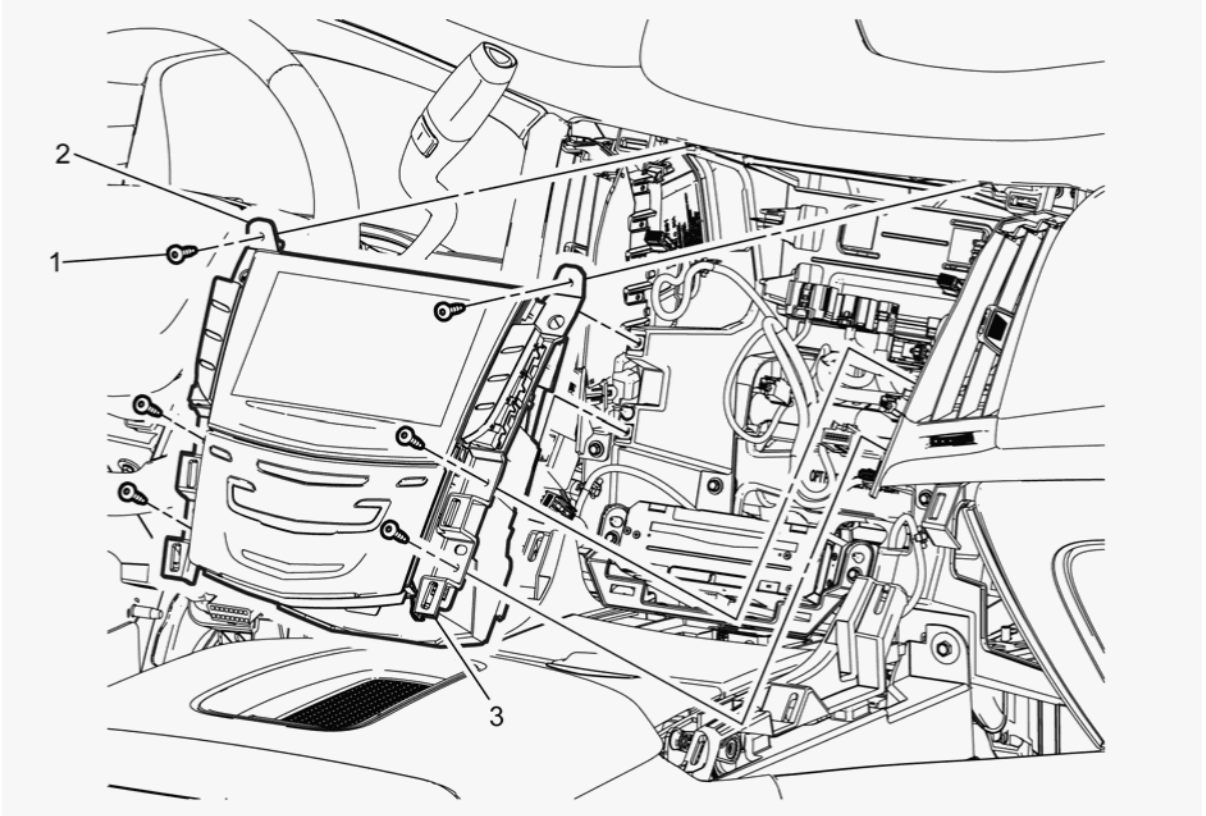


Fig. 91: Instrument Panel Upper Trim Panel Bracket
Courtesy of GENERAL MOTORS COMPANY

5. Remove the instrument panel upper trim panel bracket (3). Refer to **Instrument Panel Upper Trim Panel Bracket Replacement (Cadillac)**.

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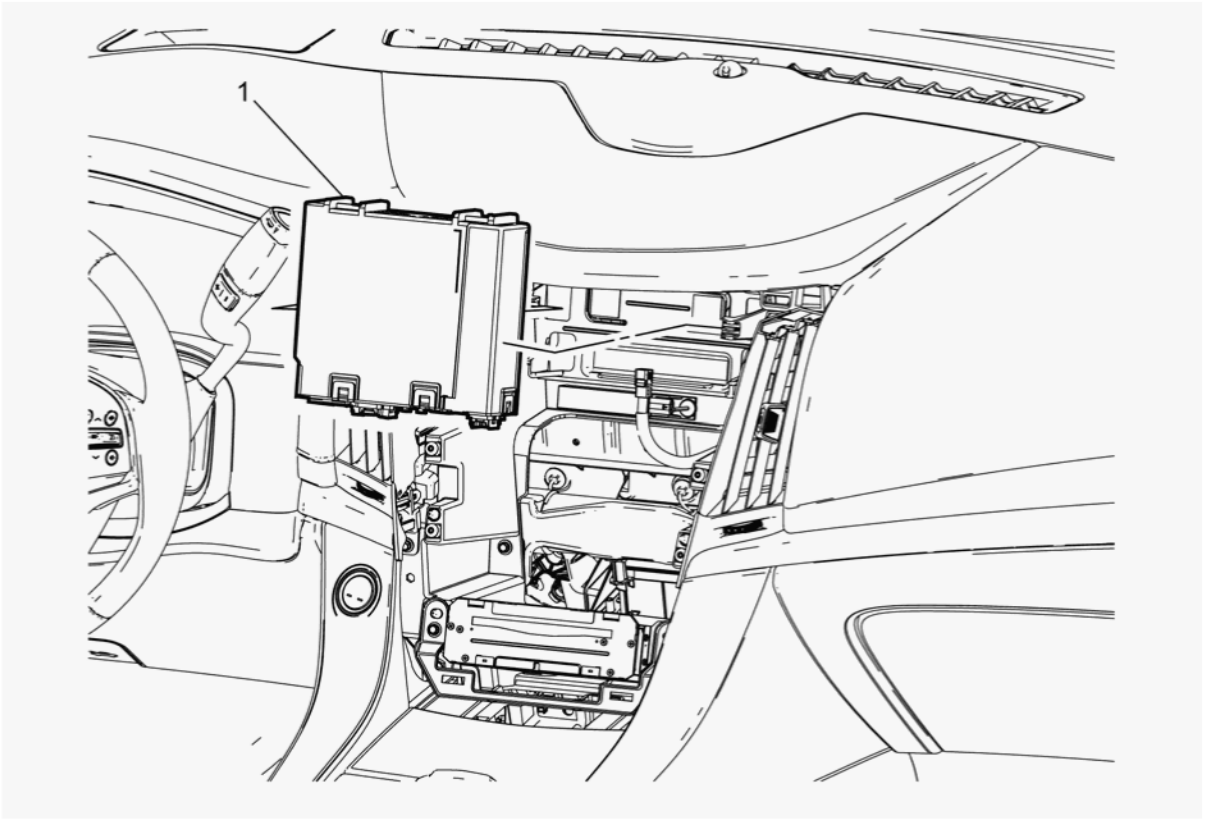


Fig. 92: Radio
Courtesy of GENERAL MOTORS COMPANY

6. Remove the radio (1). Refer to **Radio Replacement (Cadillac with NGI)** **Radio Replacement (Cadillac with IOB)**

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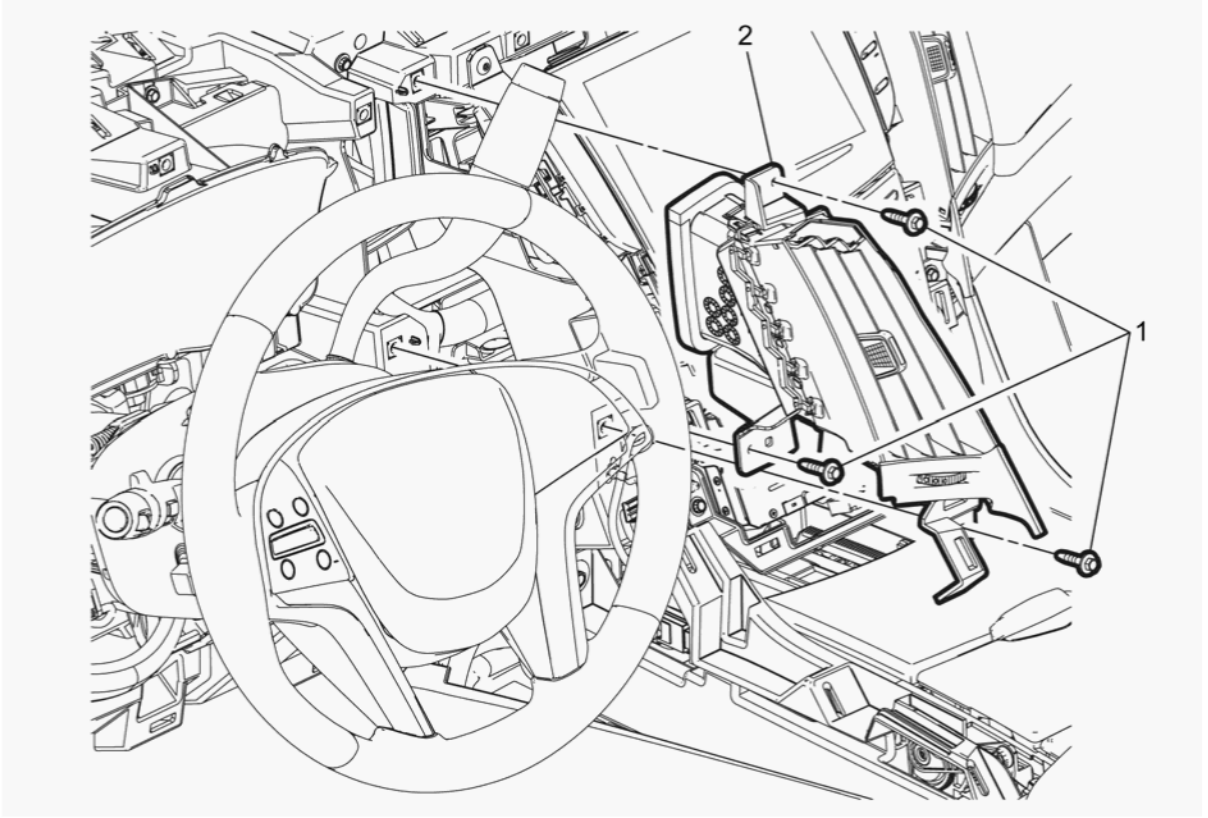


Fig. 93: Left Instrument Panel Center Air Outlet
Courtesy of GENERAL MOTORS COMPANY

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

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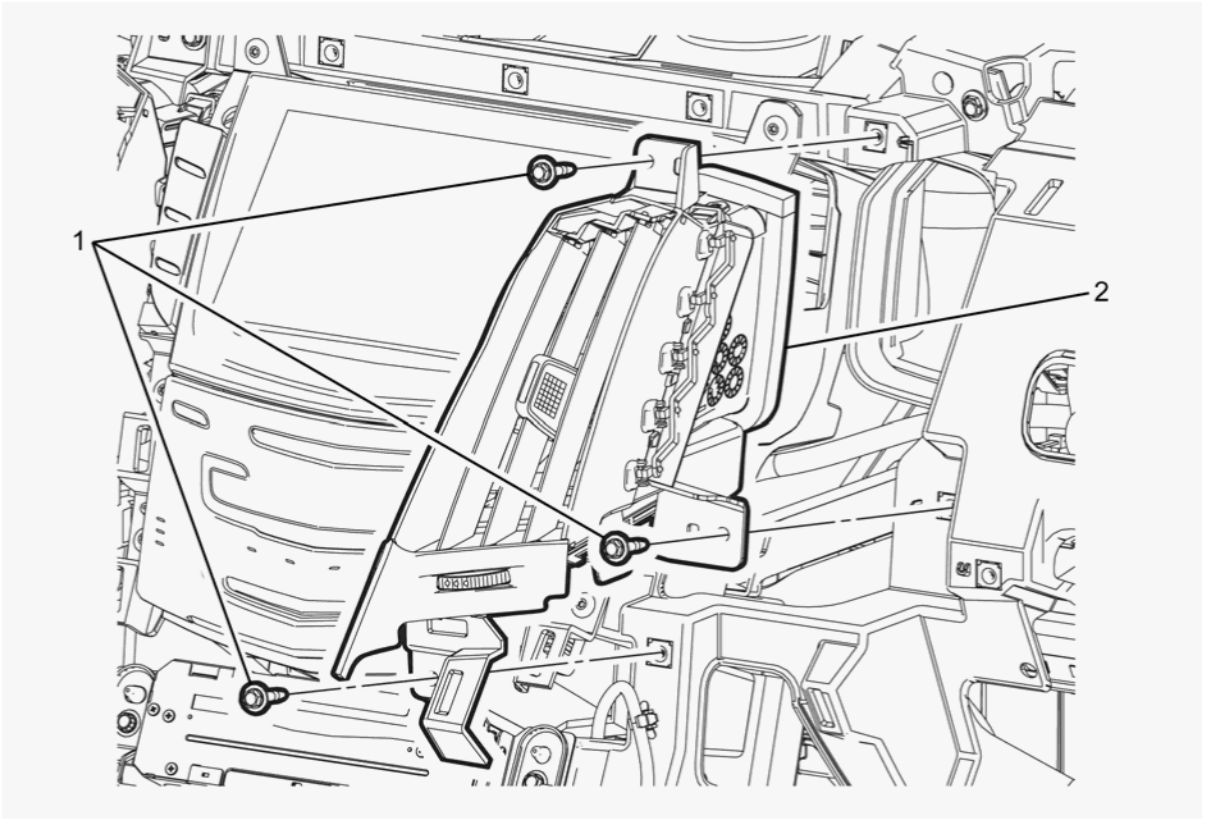


Fig. 94: Right Instrument Panel Center Air Outlet
Courtesy of GENERAL MOTORS COMPANY

8. Remove the right instrument panel center air outlet (2). Refer to **Instrument Panel Center Air Outlet Replacement - Right Side (Cadillac)** .

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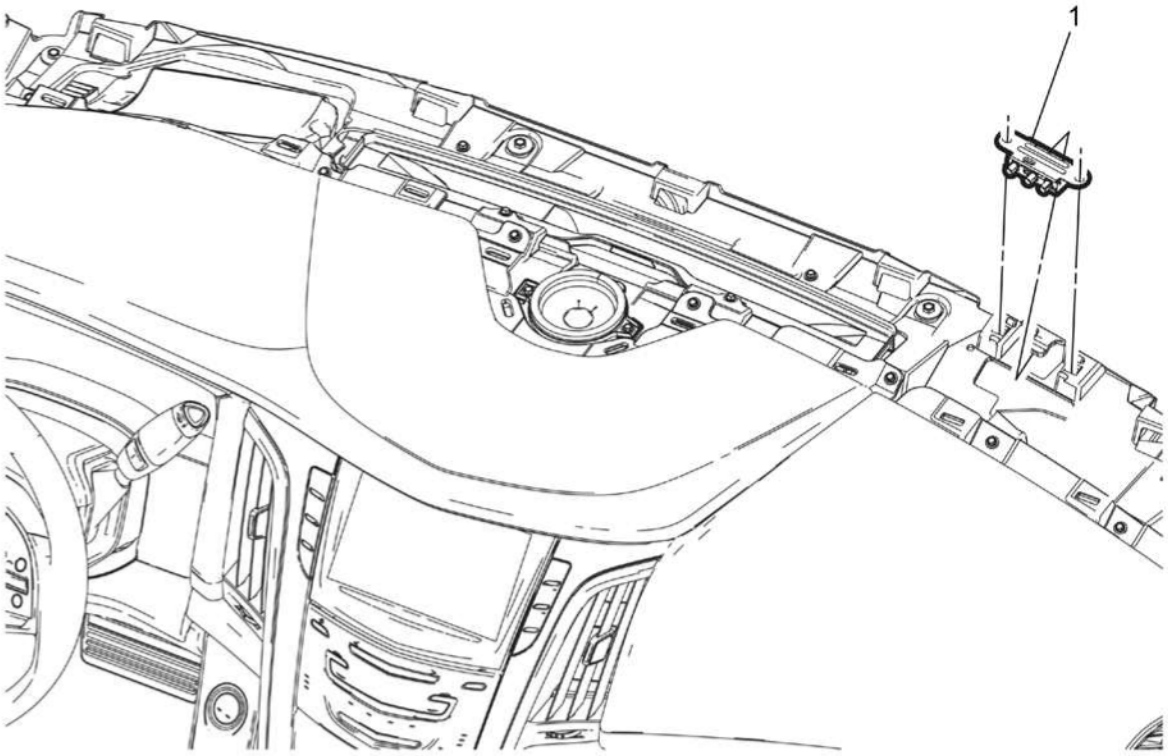


Fig. 95: Navigation Signal Splitter
Courtesy of GENERAL MOTORS COMPANY

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

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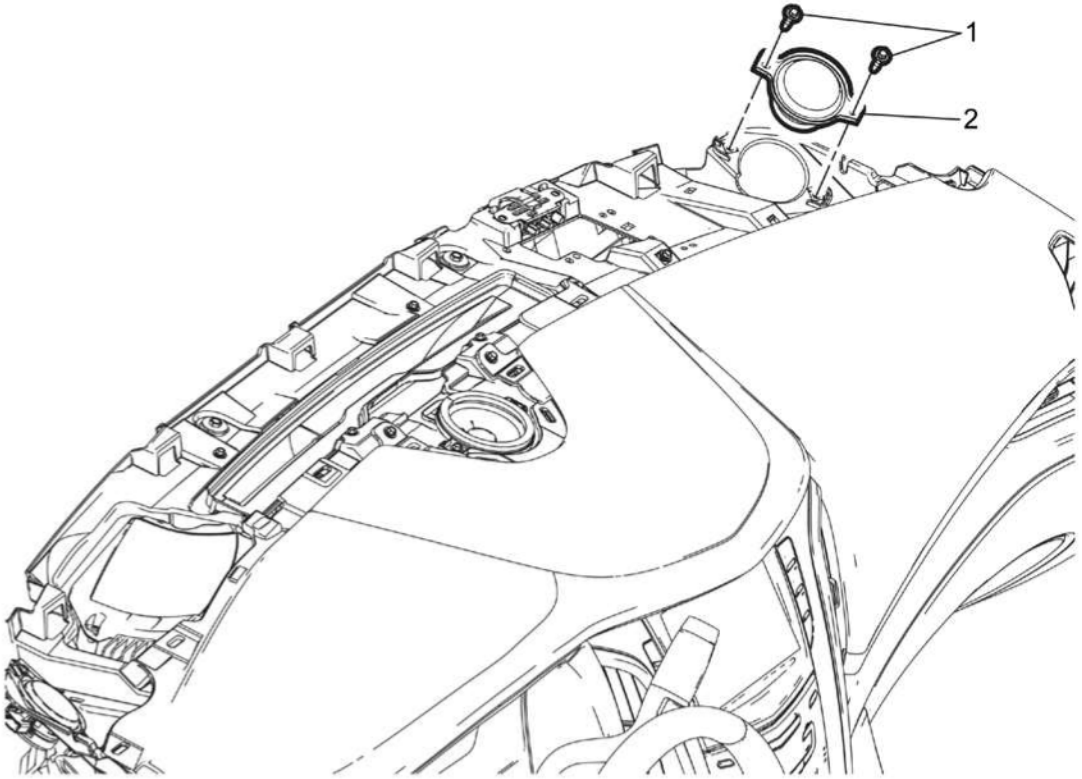


Fig. 96: Radio Speaker
Courtesy of GENERAL MOTORS COMPANY

10. Remove the radio speaker (2). Refer to **Radio Speaker Replacement (Cadillac)** .

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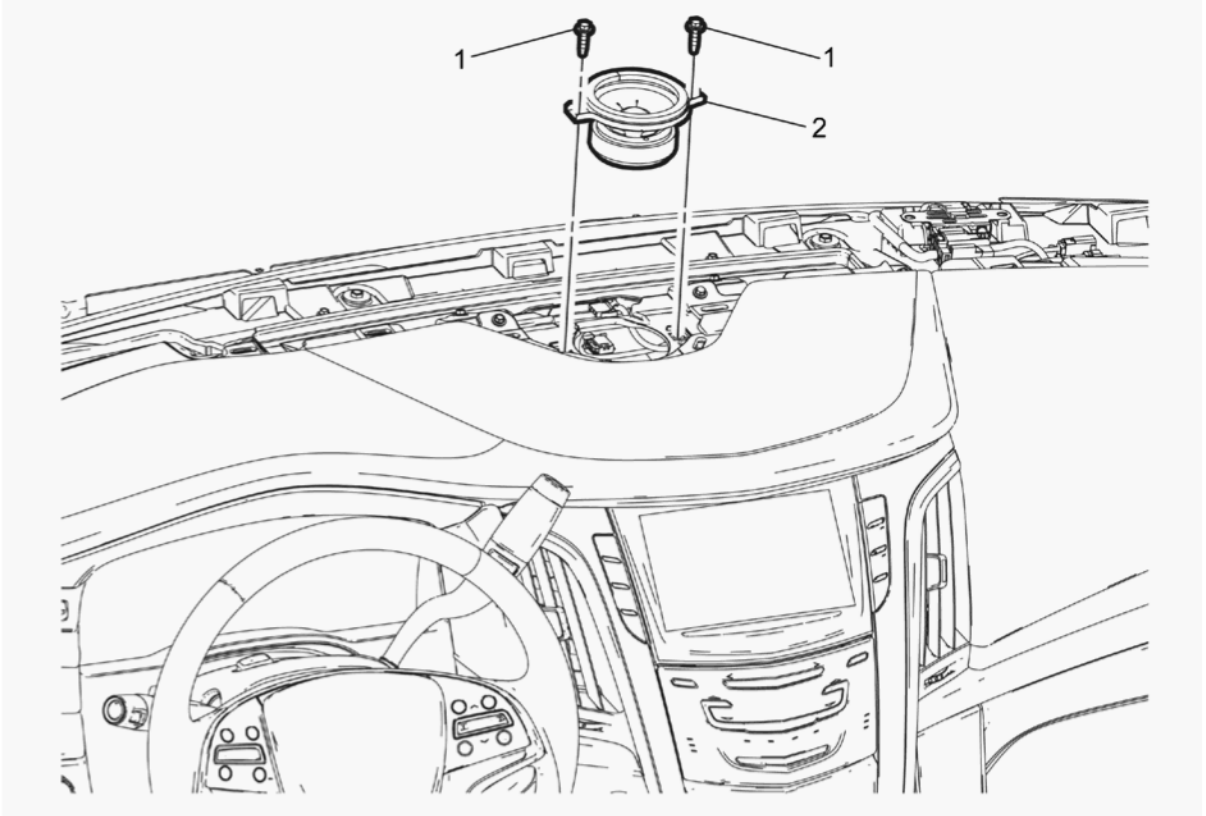


Fig. 97: Radio Front Center Speaker
Courtesy of GENERAL MOTORS COMPANY

11. Remove the radio front center speaker (2). Refer to **Radio Front Center Speaker Replacement (Cadillac)** .

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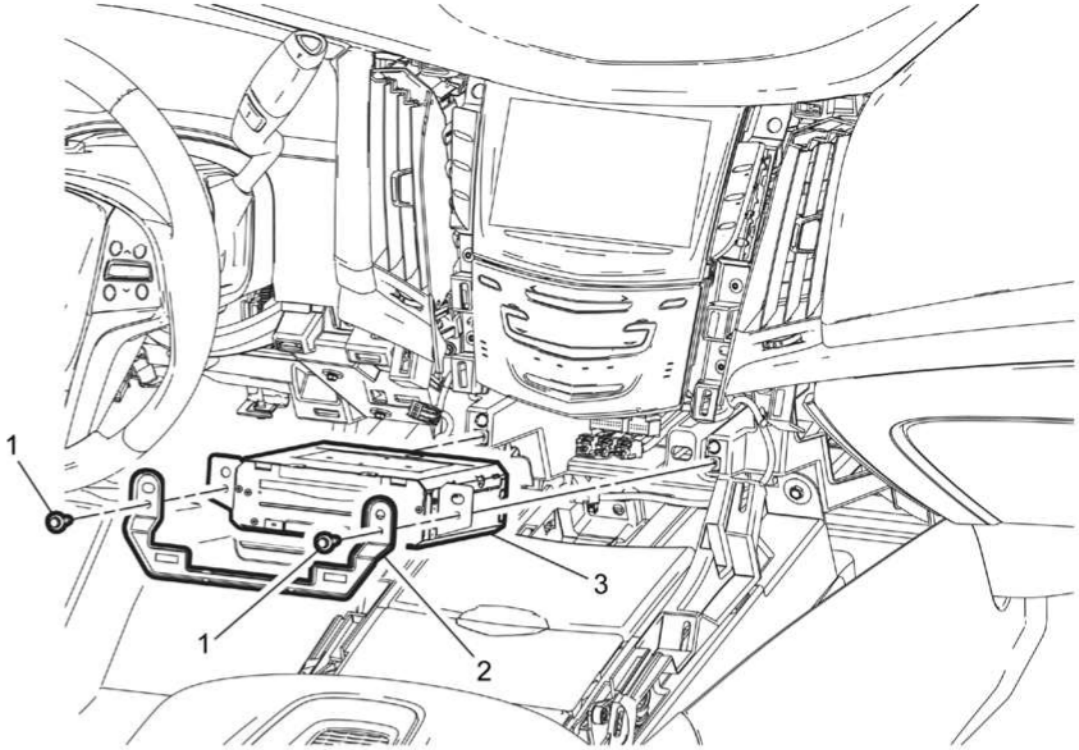


Fig. 98: Video Player
Courtesy of GENERAL MOTORS COMPANY

12. Remove the video player (3). Refer to **Video Player Replacement (Cadillac)** .

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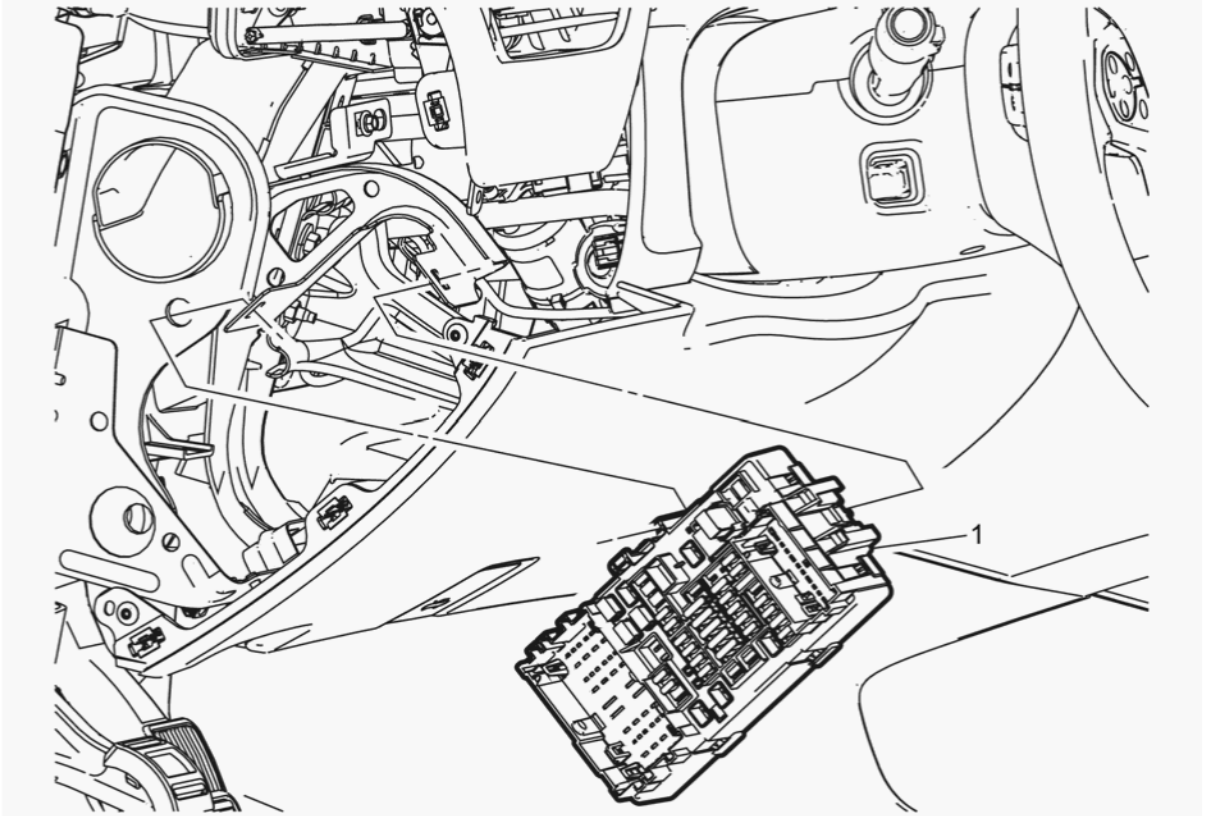


Fig. 99: Instrument Panel Wiring Harness Junction Blocks
Courtesy of GENERAL MOTORS COMPANY

13. Remove both instrument panel wiring harness junction blocks (1). Refer to **Instrument Panel Wiring Harness Junction Block Replacement**
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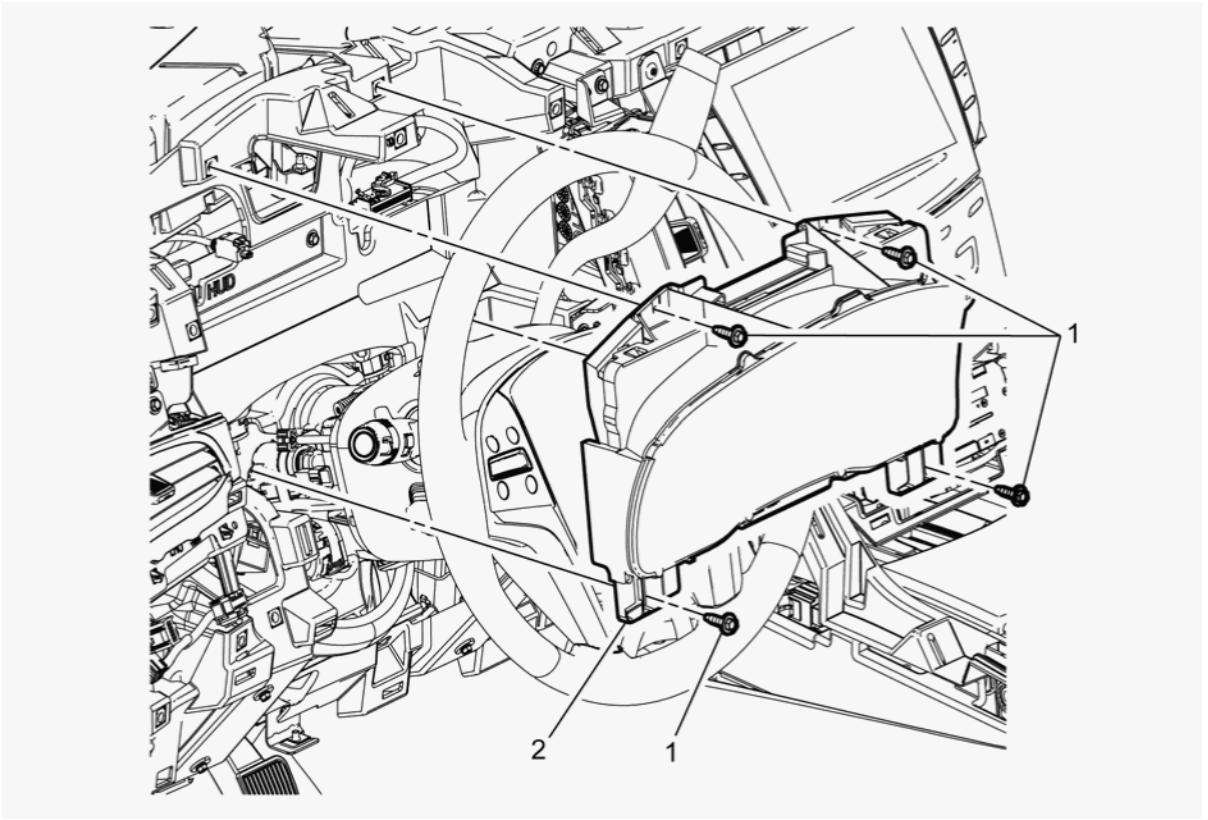


Fig. 100: Instrument Cluster
Courtesy of GENERAL MOTORS COMPANY

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

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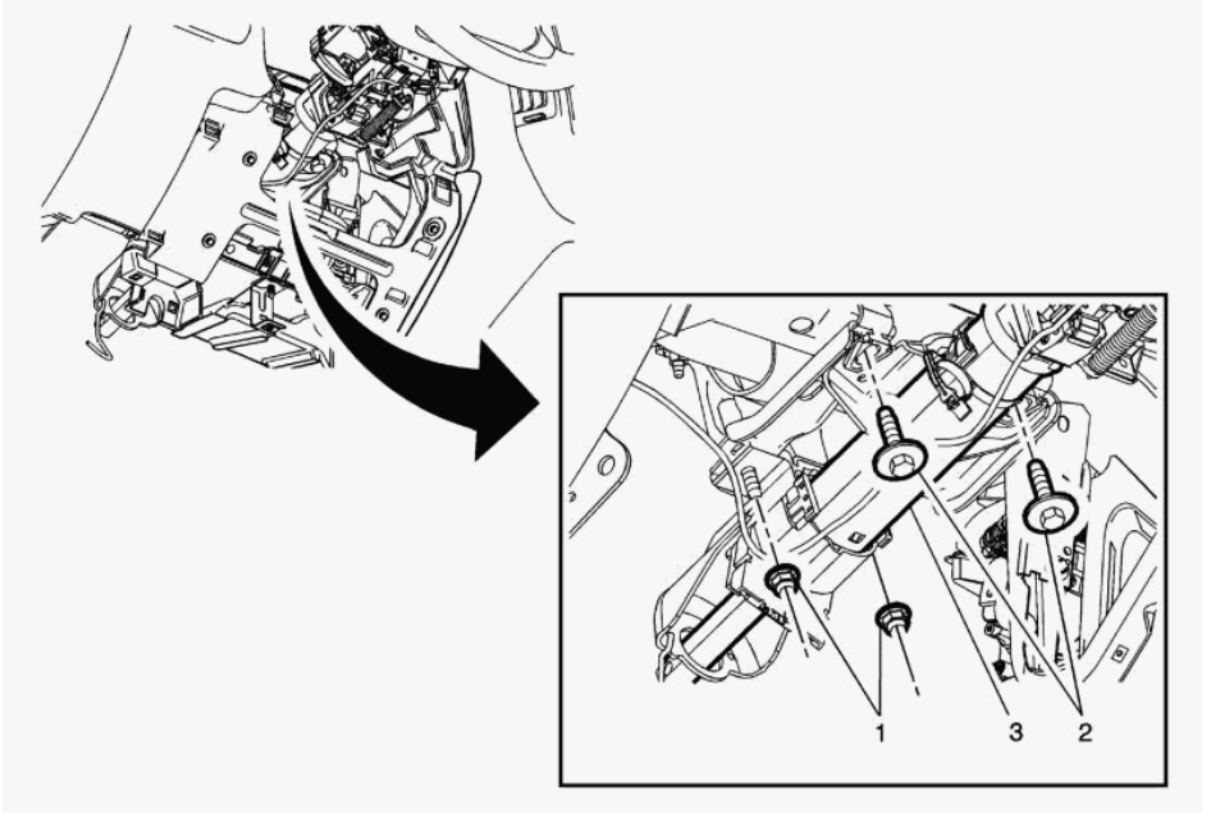


Fig. 101: Steering Column
Courtesy of GENERAL MOTORS COMPANY

15. Remove the steering column (3). Refer to **Steering Column Replacement (N33, N37)** **Steering Column Replacement (N38)** .

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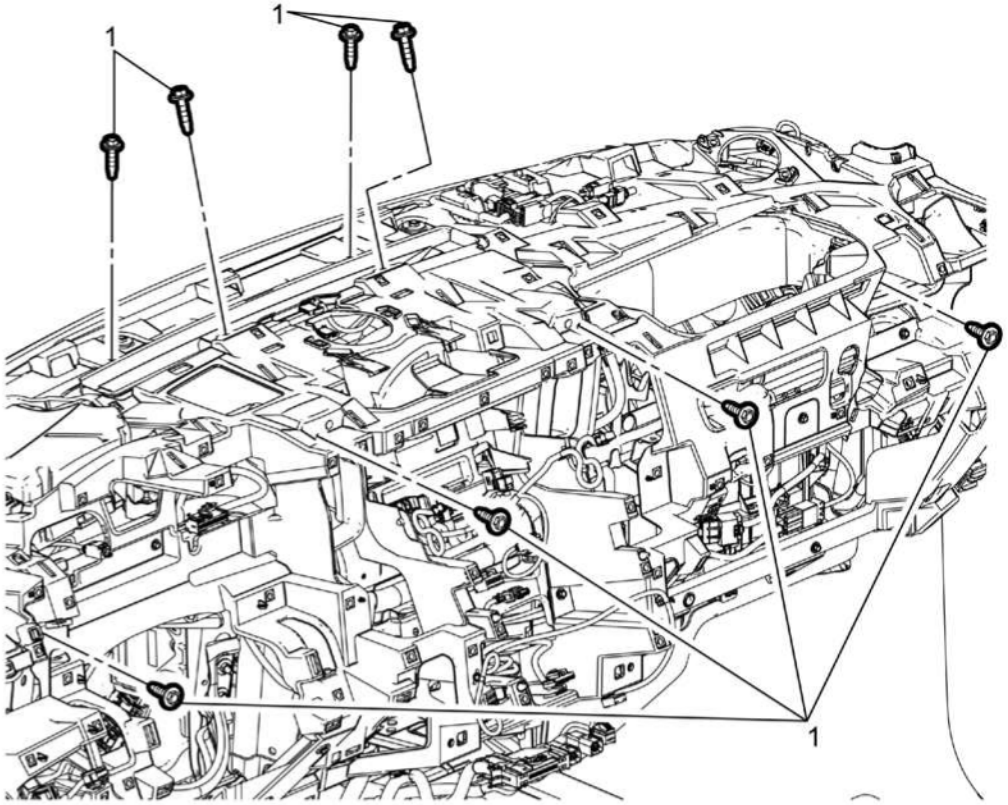


Fig. 102: Air Distributor Front Duct Fasteners
Courtesy of GENERAL MOTORS COMPANY

16. Remove the air distributor front duct fasteners (1).

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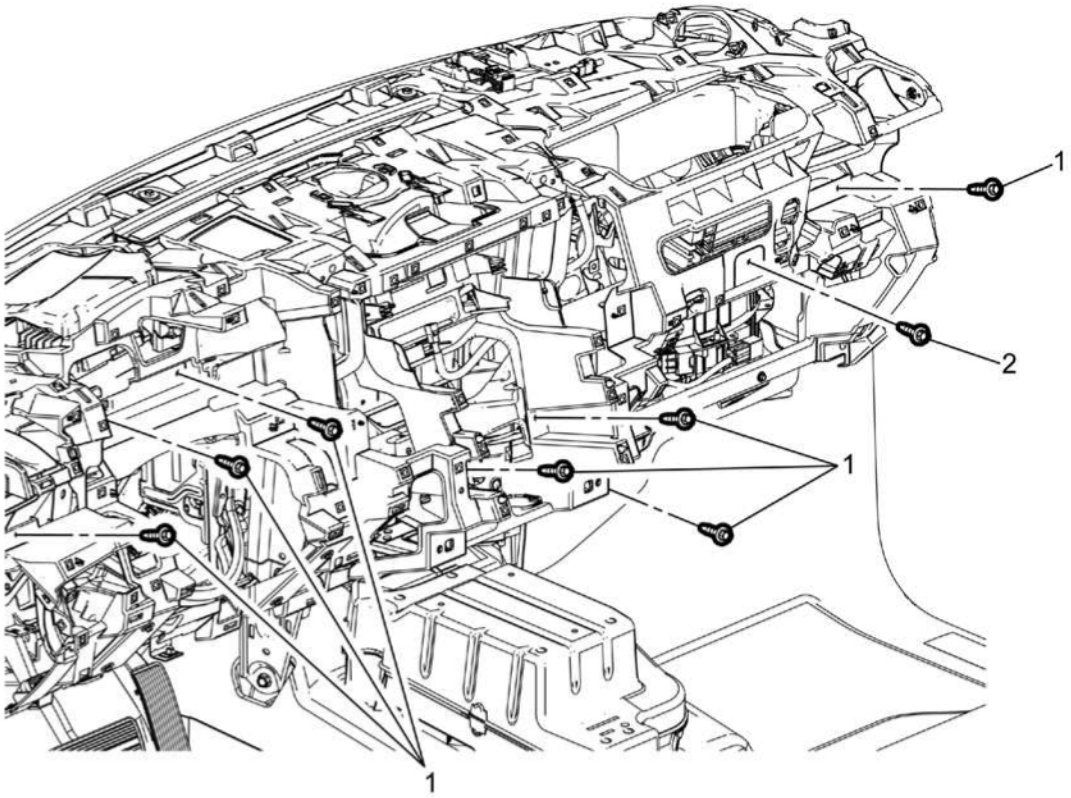


Fig. 103: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

17. Remove the instrument carrier fasteners (1).
18. Remove the communication interface module bracket fastener (2).

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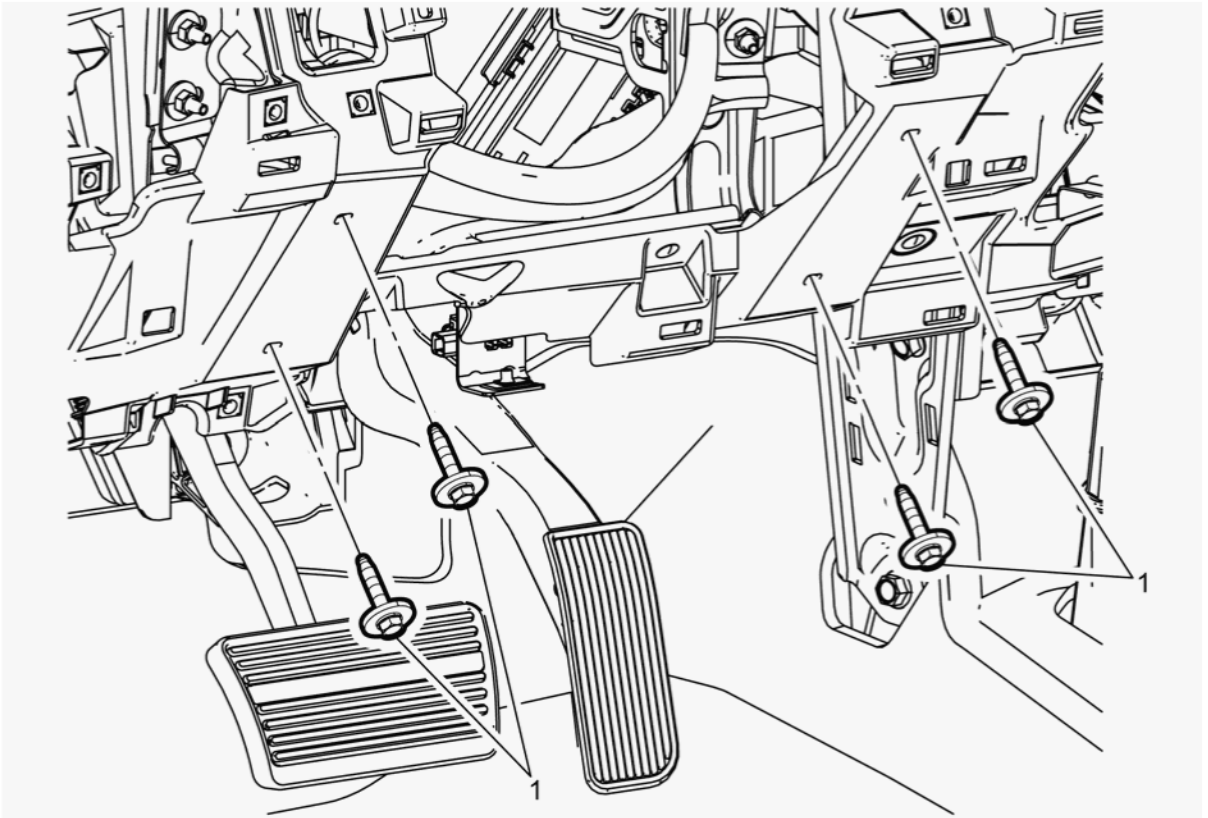


Fig. 104: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

19. Remove the instrument carrier fasteners (1).

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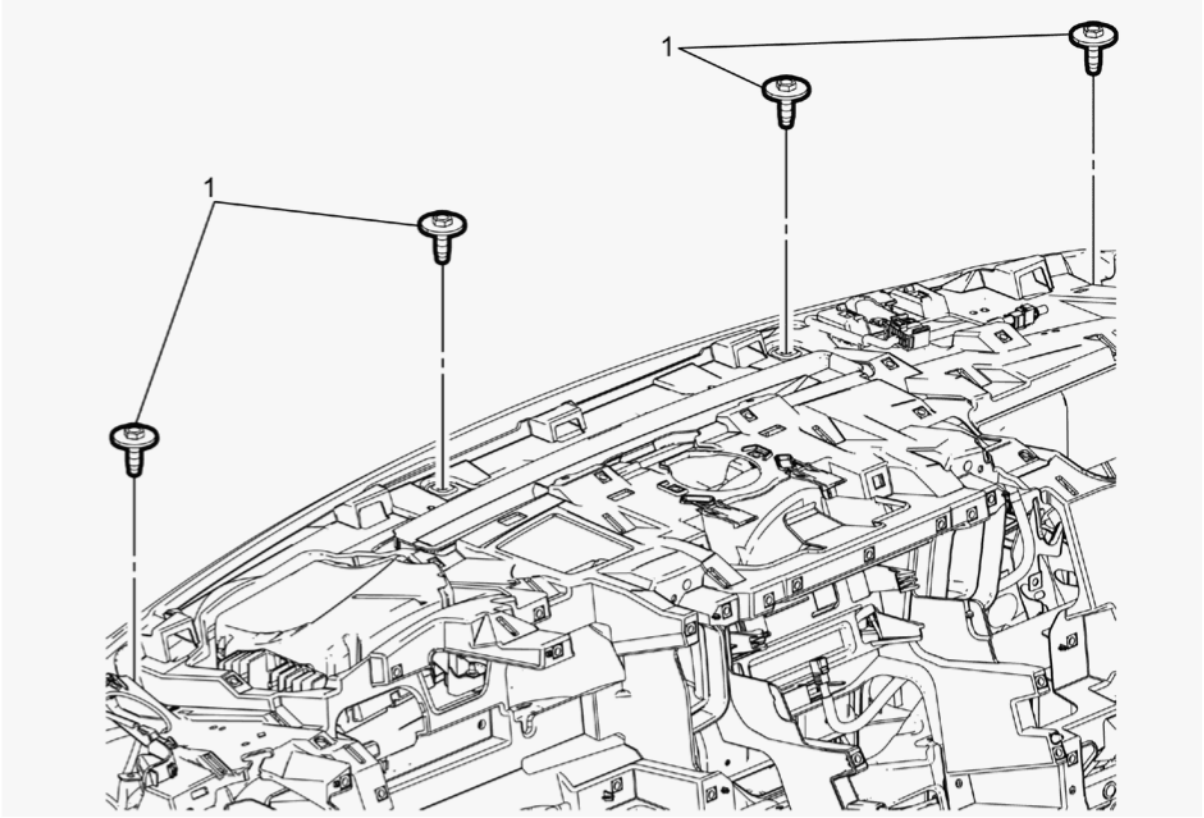


Fig. 105: Instrument Panel Upper Trim Panel Fasteners
Courtesy of GENERAL MOTORS COMPANY

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

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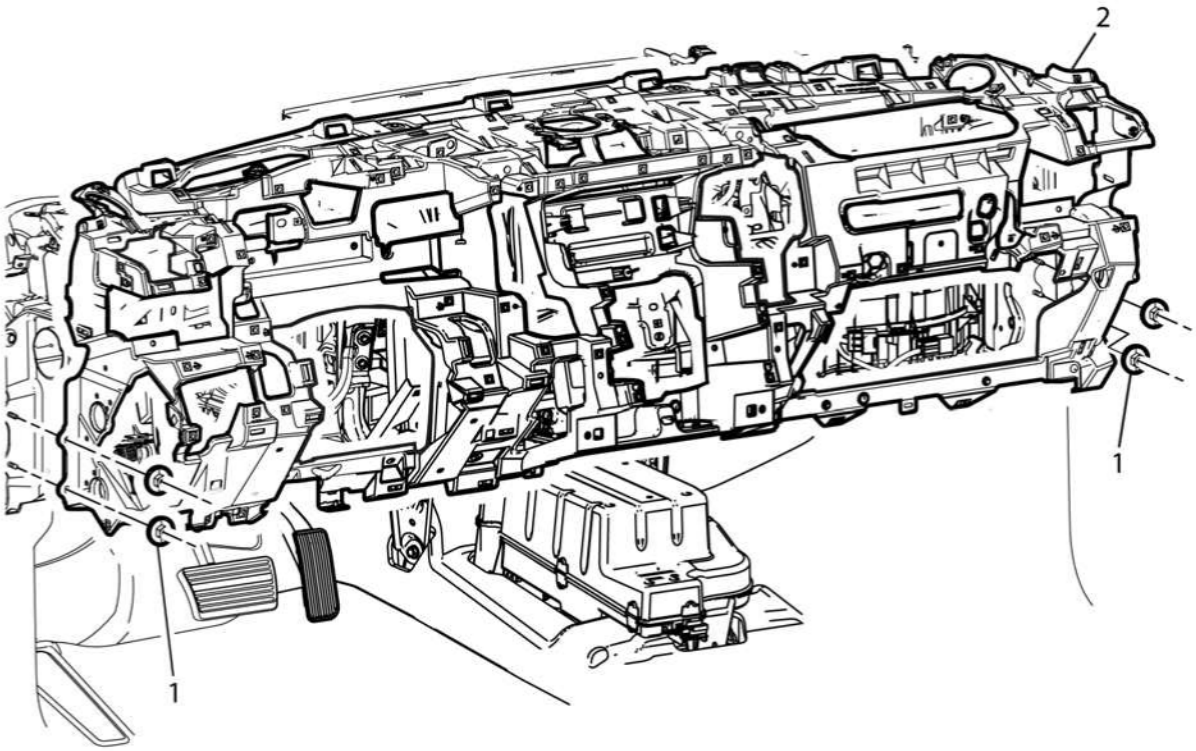


Fig. 106: Instrument Panel Carrier Nut
Courtesy of GENERAL MOTORS COMPANY

21. Remove the instrument panel carrier nut (1).
22. Note location and routing of the instrument panel wiring harness prior to removal of the instrument panel carrier to ensure proper reinstallation.
23. Remove the data link connector fasteners and position the data link connector out of the way.
24. Remove the right and left floor flood lamps by gently releasing the tab on the lamp assemblies.
25. Disconnect the wiring harness from the instrument panel carrier.
26. With the aid of an assistant, remove the instrument panel carrier (2) from the vehicle.

Installation Procedure

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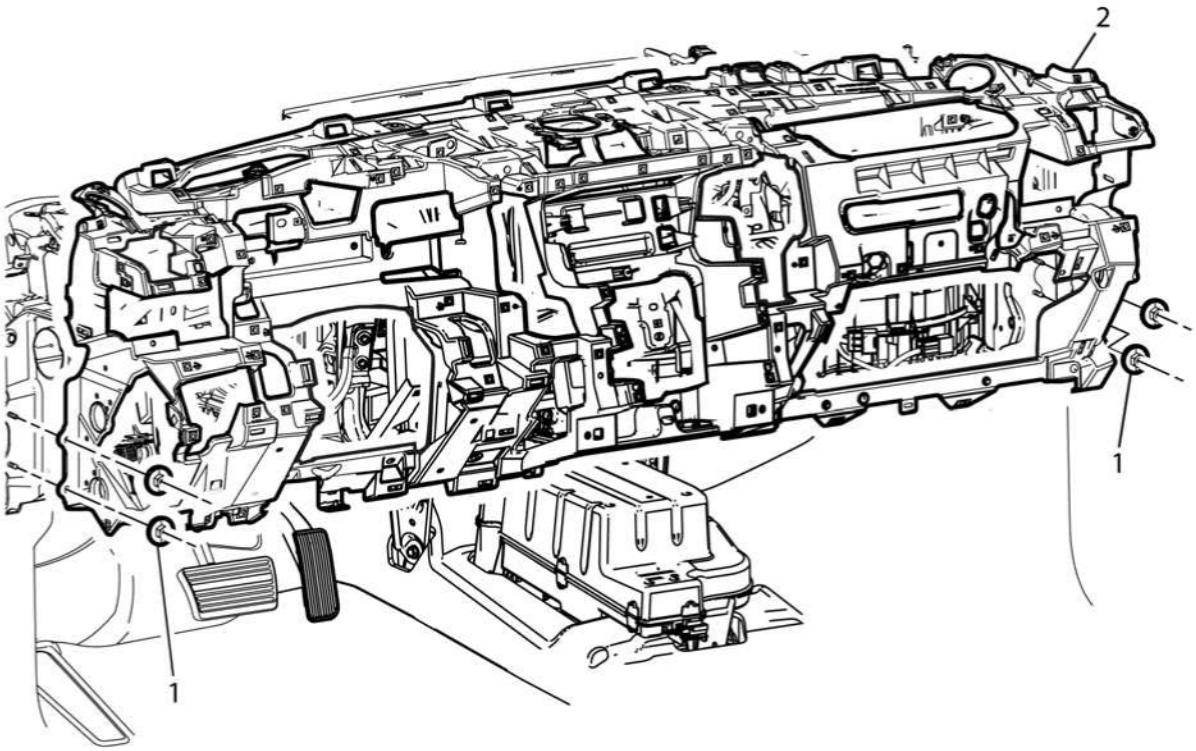


Fig. 107: Instrument Panel Carrier Nut
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

1. With the aid of an assistant, position the instrument panel carrier (2) into the vehicle.
2. 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.
3. Install the right and left floor flood lamps by gently releasing the tab on the lamp assemblies.
4. Install the data link connector fasteners and position the data link connector out of the way.
5. Install the instrument panel carrier nuts (1) and tighten to 9 N.m (80 lb in).

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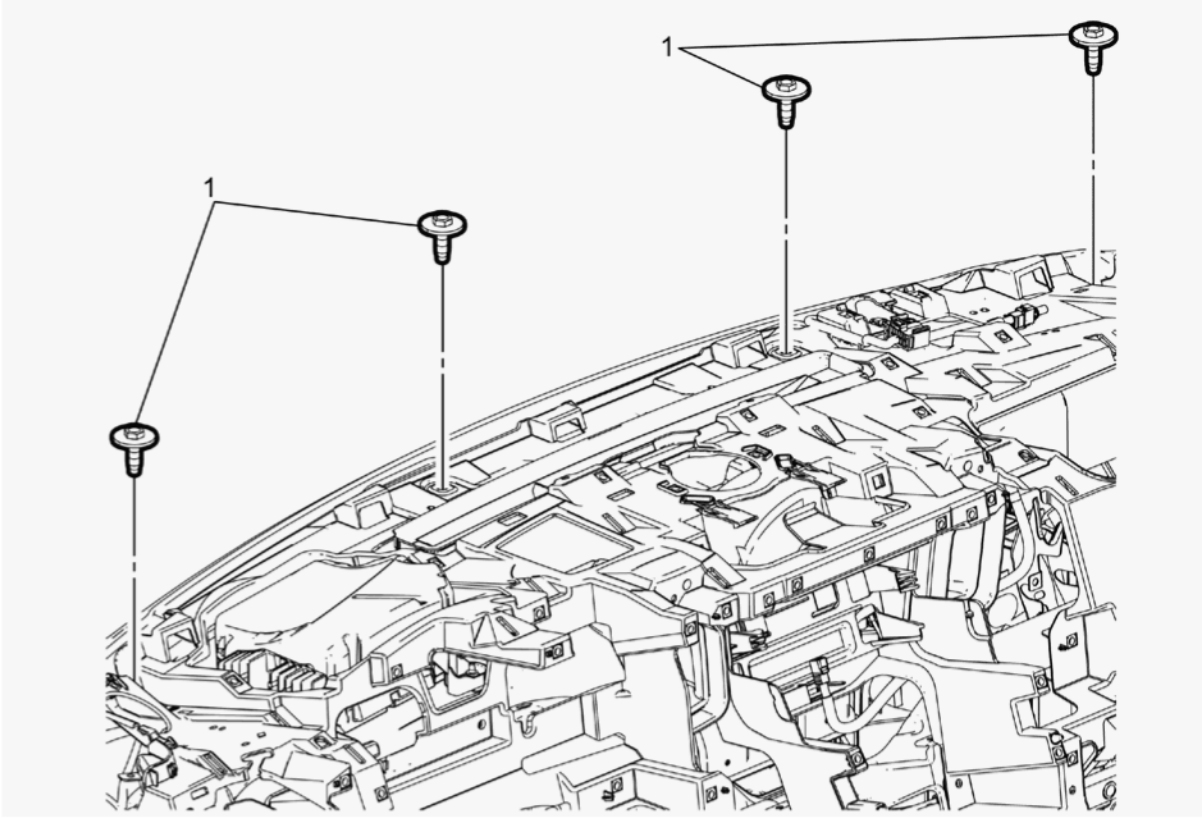


Fig. 108: Instrument Panel Upper Trim Panel Fasteners
Courtesy of GENERAL MOTORS COMPANY

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

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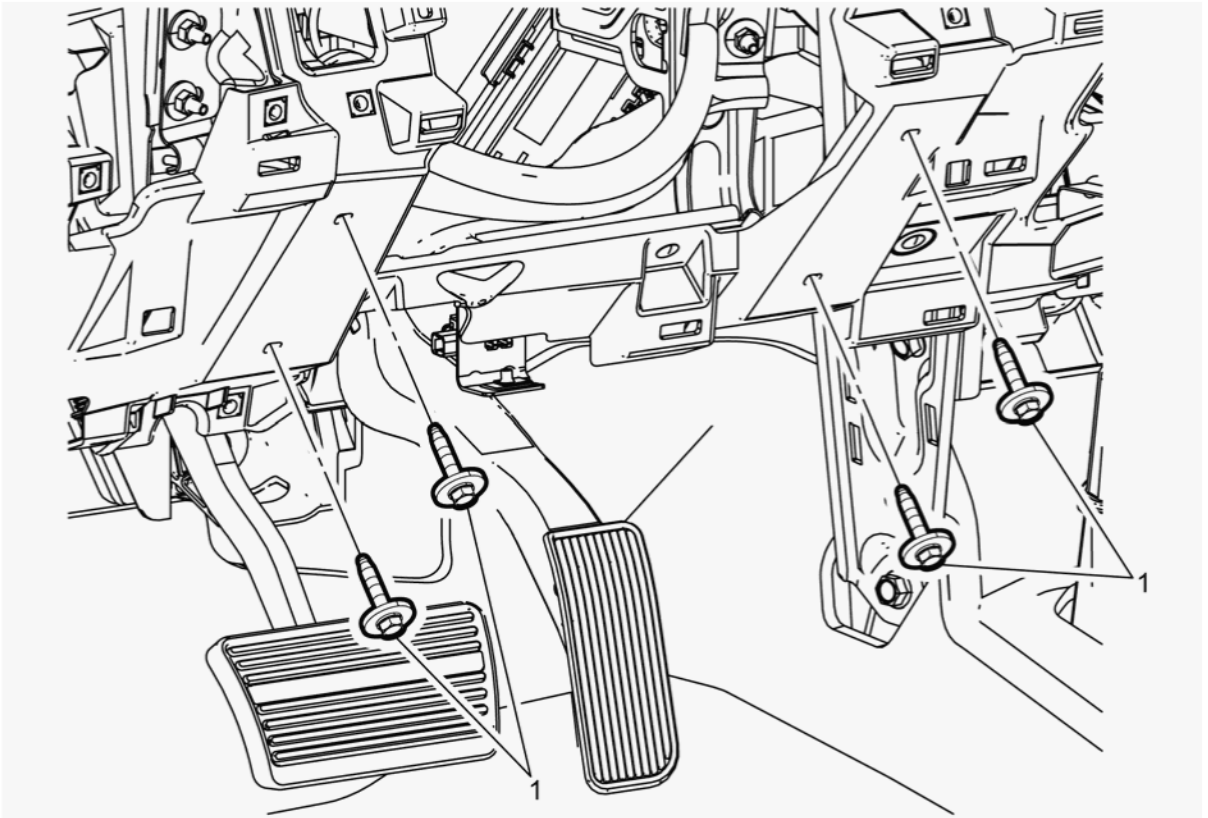


Fig. 109: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

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

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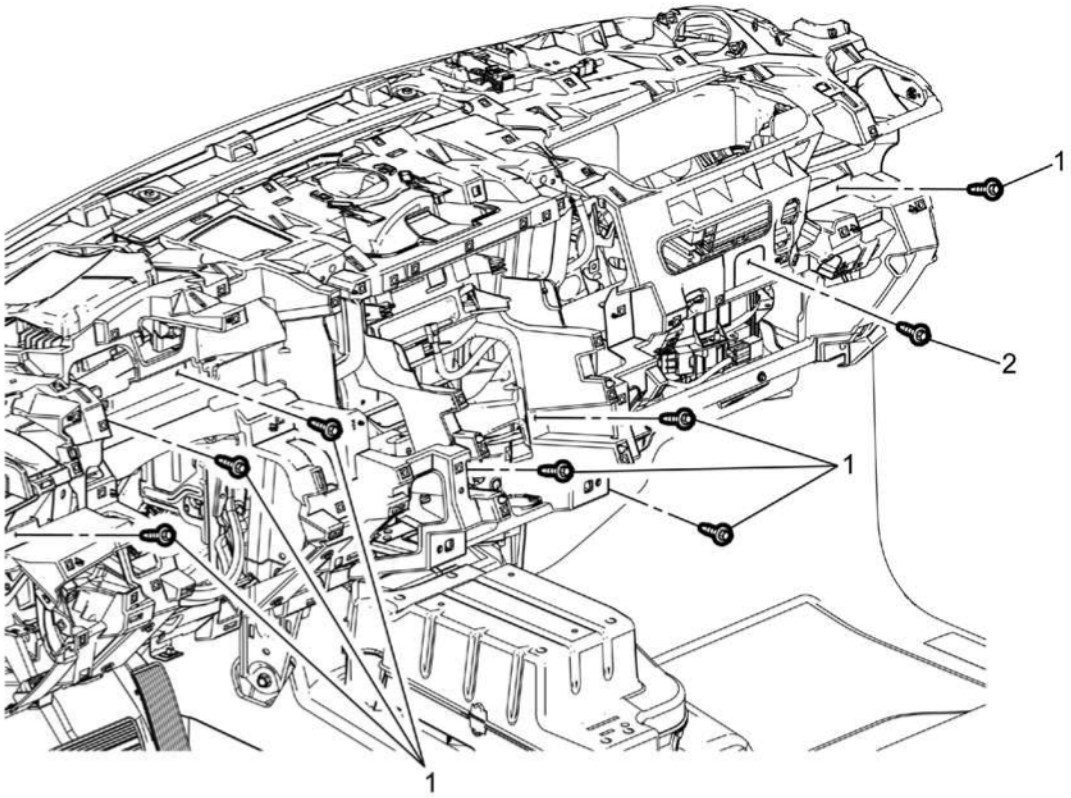


Fig. 110: Instrument Carrier Fasteners
Courtesy of GENERAL MOTORS COMPANY

8. Install the instrument carrier fasteners (1) and tighten to 2.5 N.m (22 lb in).
9. Install the communication interface module bracket fasteners (2) and tighten to 2.5 N.m (22 lb in).

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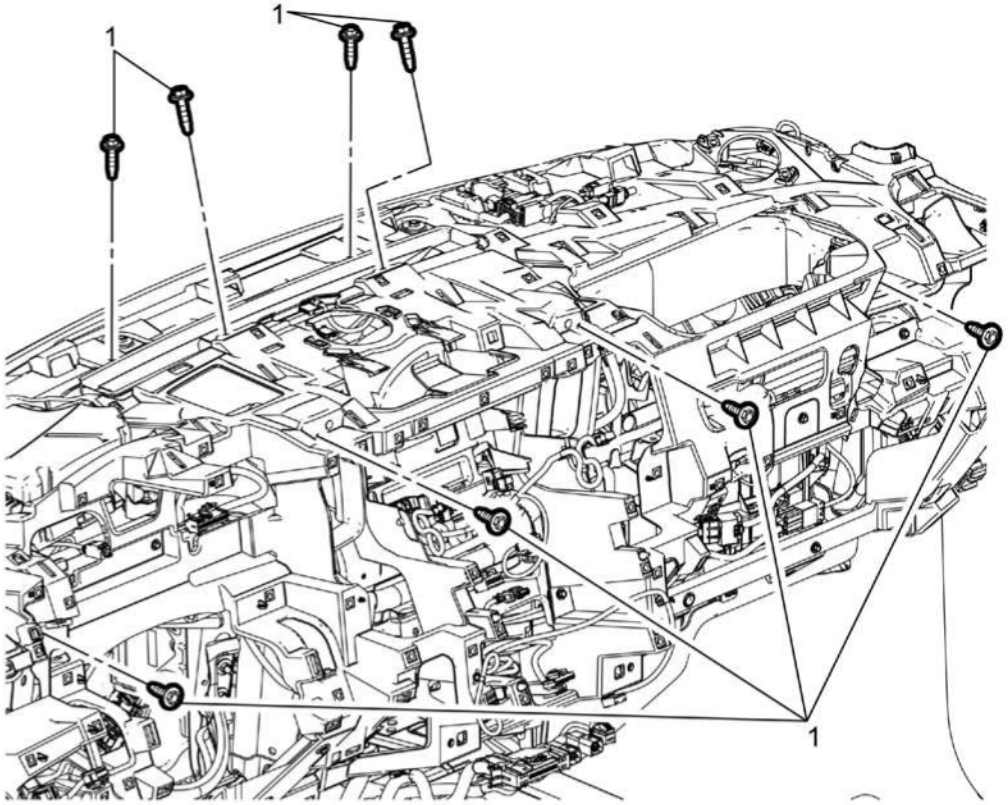


Fig. 111: Air Distributor Front Duct Fasteners
Courtesy of GENERAL MOTORS COMPANY

10. Install the air distributor front duct fasteners (1) and tighten to 2.5 N.m (22 lb in).

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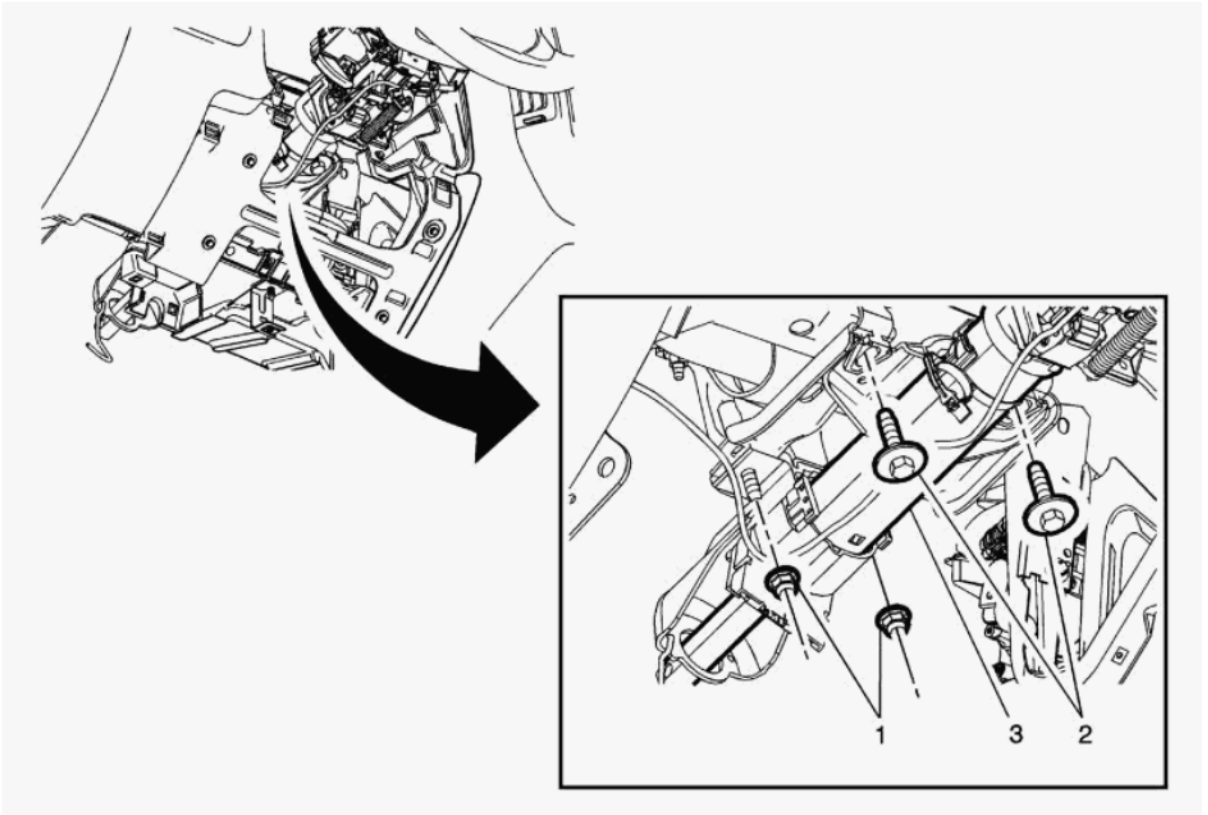


Fig. 112: Steering Column
Courtesy of GENERAL MOTORS COMPANY

11. Install the steering column (3). Refer to **Steering Column Replacement (N33, N37)** **Steering Column Replacement (N38)** .

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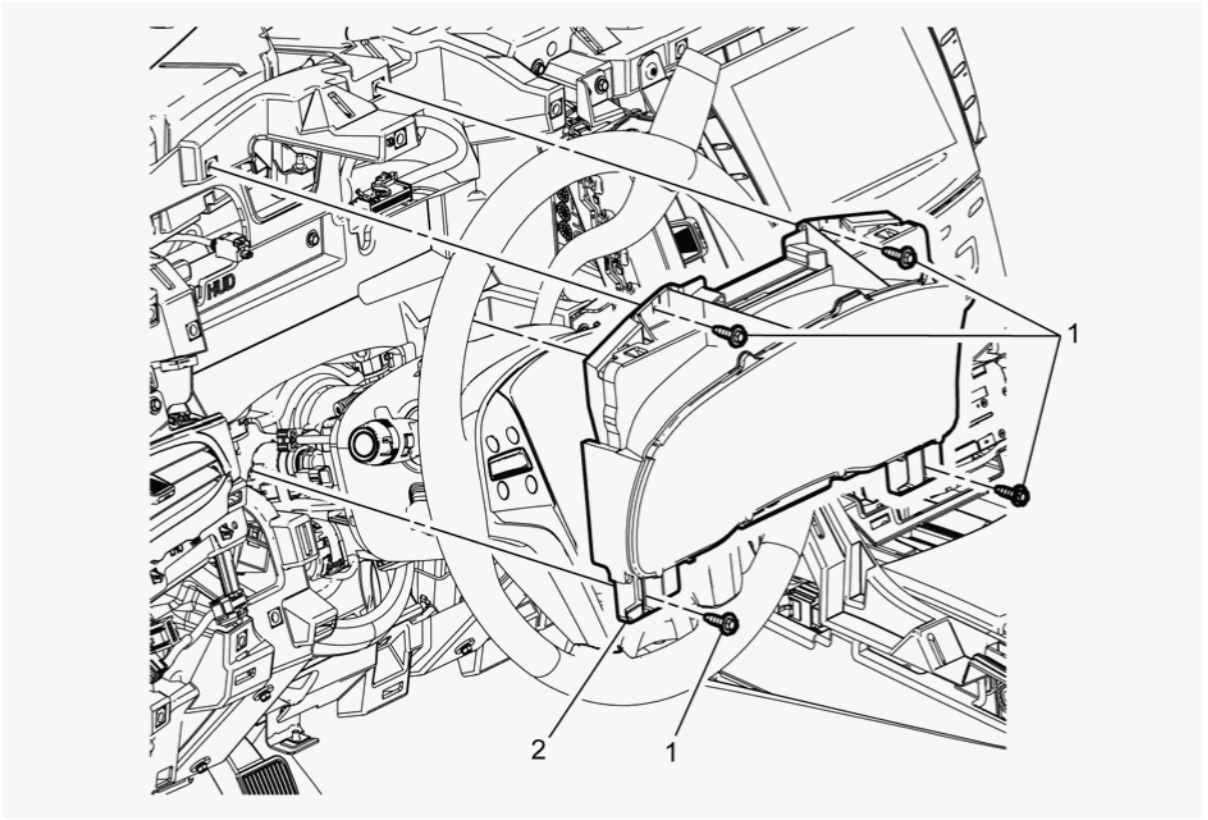


Fig. 113: Instrument Cluster
Courtesy of GENERAL MOTORS COMPANY

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

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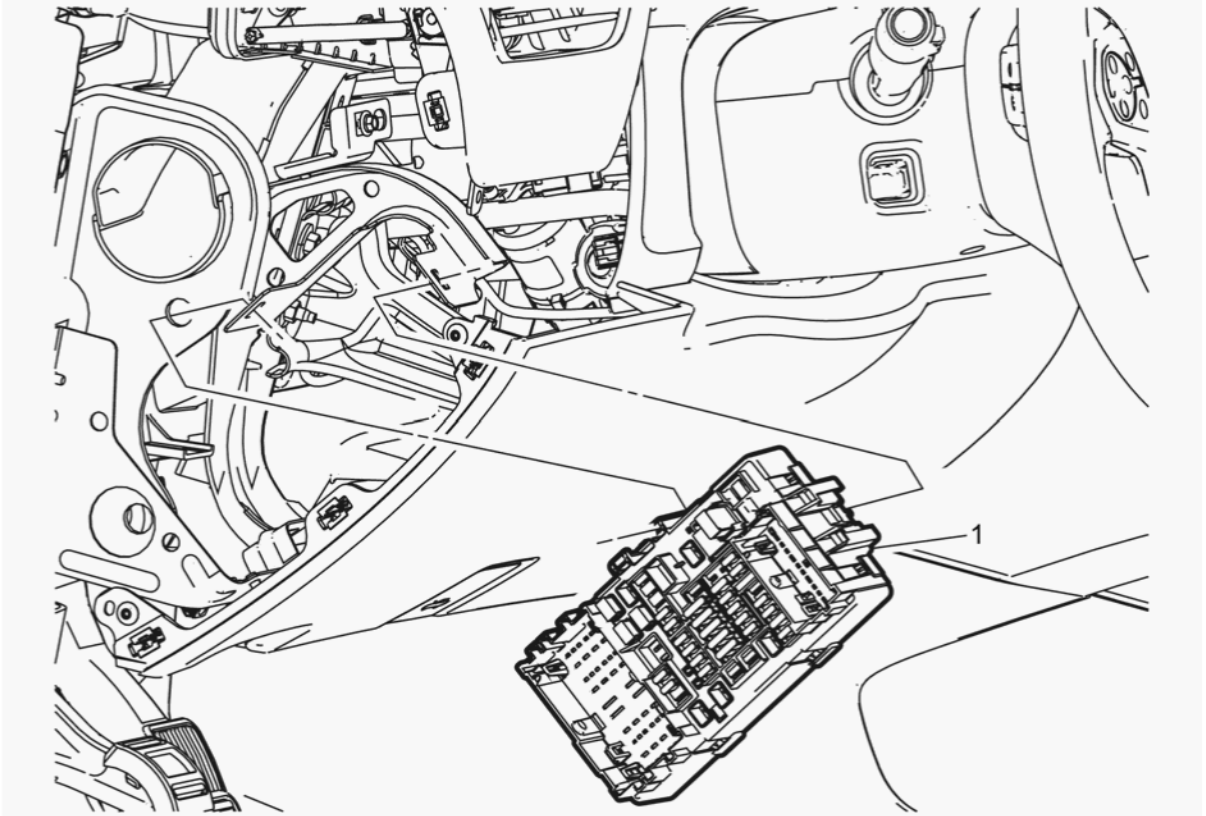


Fig. 114: Instrument Panel Wiring Harness Junction Blocks
Courtesy of GENERAL MOTORS COMPANY

13. Install both instrument panel wiring harness junction blocks (1). Refer to **Instrument Panel Wiring Harness Junction Block Replacement** .

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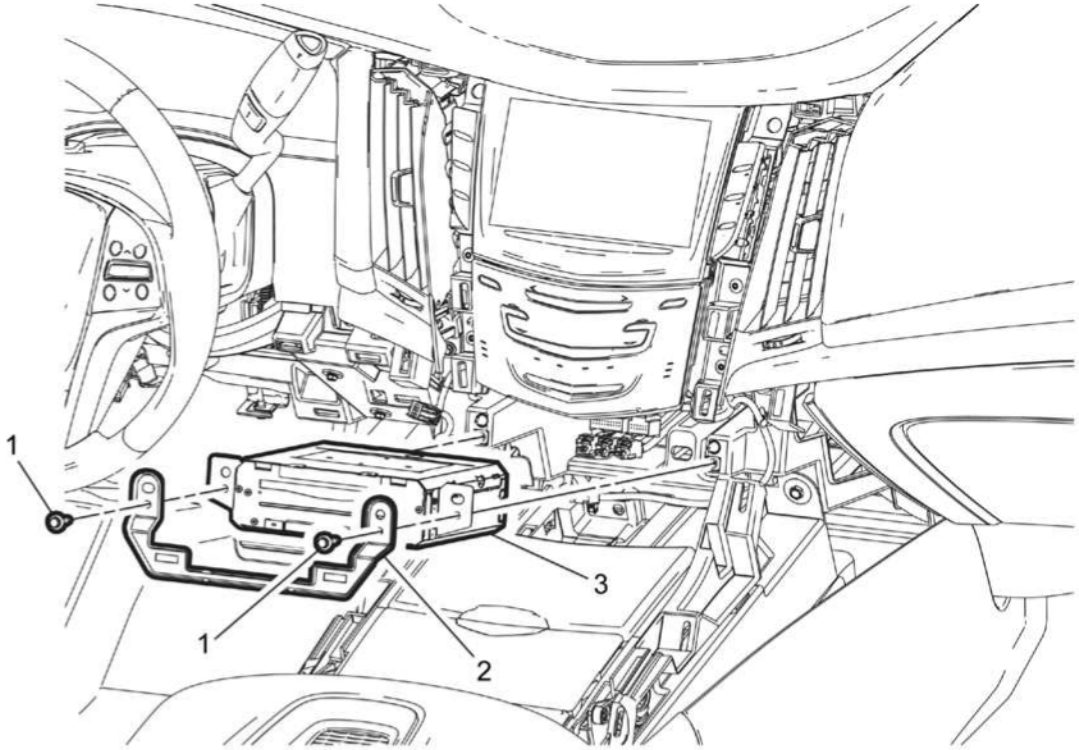


Fig. 115: Video Player
Courtesy of GENERAL MOTORS COMPANY

14. Install the video player (3). Refer to **Video Player Replacement (Cadillac)** .

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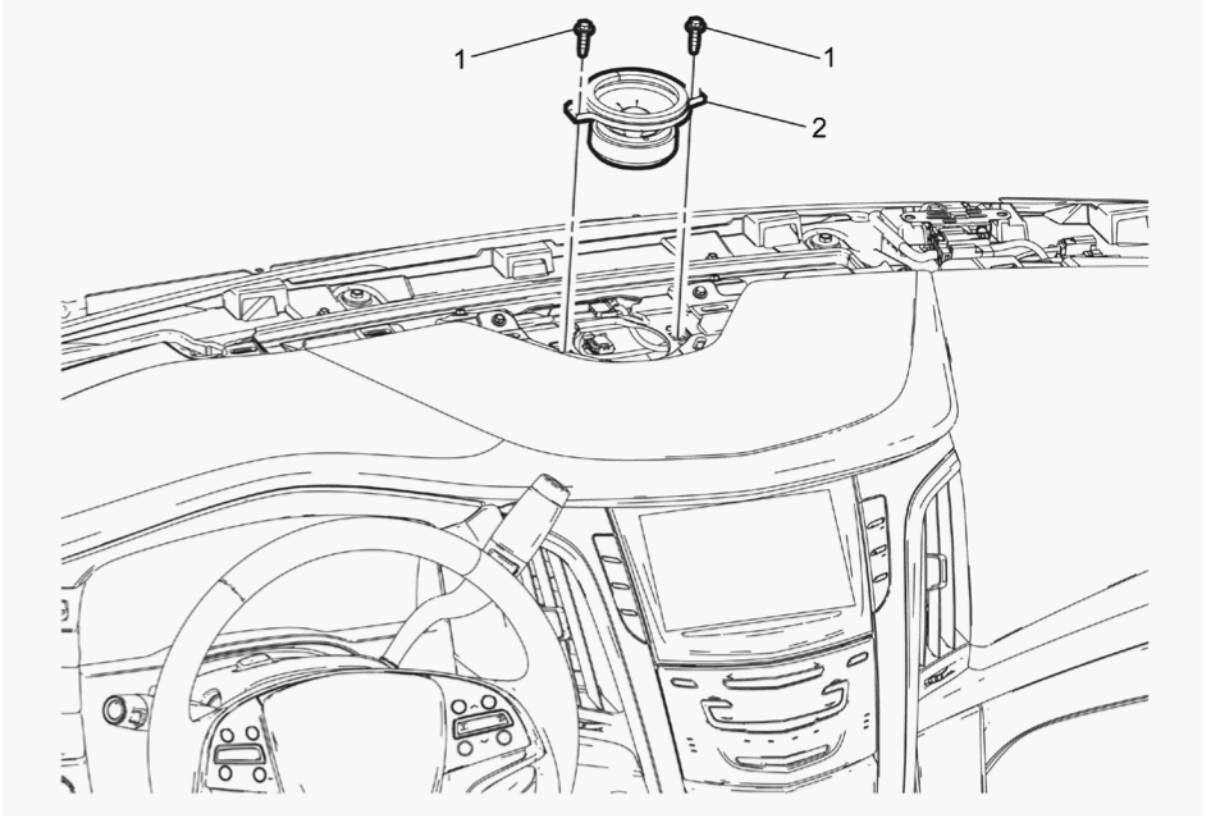


Fig. 116: Radio Front Center Speaker
Courtesy of GENERAL MOTORS COMPANY

15. Install the radio front center speaker (2). Refer to **Radio Front Center Speaker Replacement (Cadillac)** .

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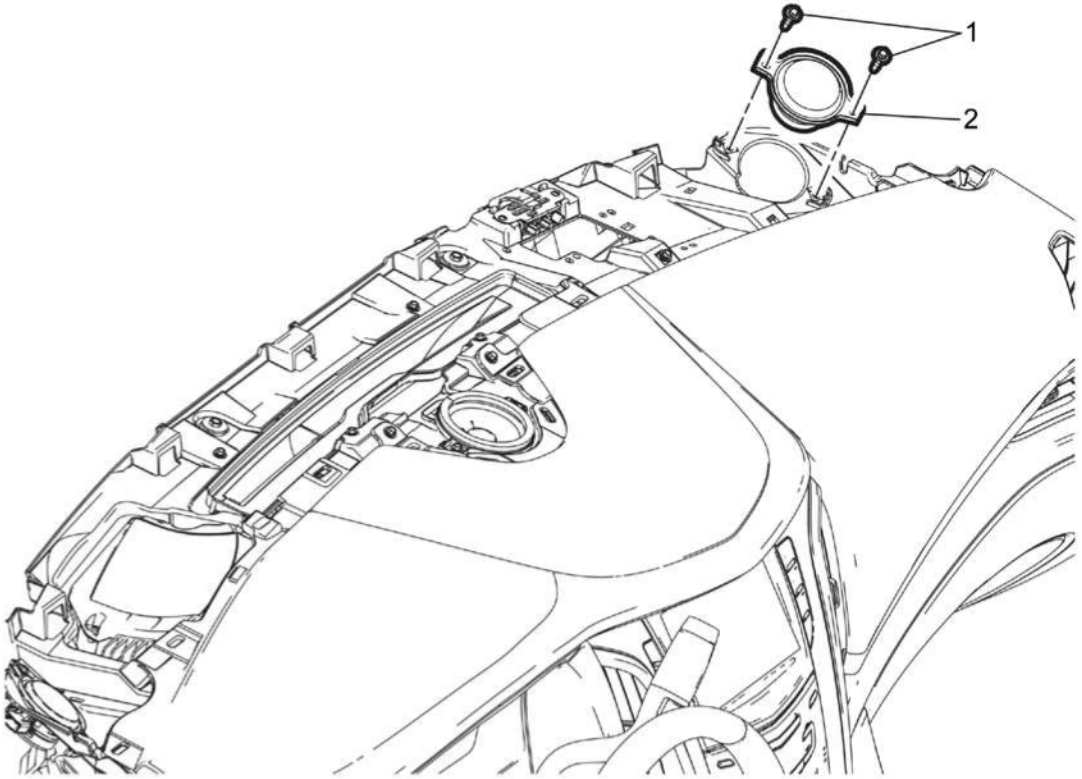


Fig. 117: Radio Speaker
Courtesy of GENERAL MOTORS COMPANY

16. Install the radio speaker (2). Refer to **Radio Speaker Replacement (Cadillac)** .

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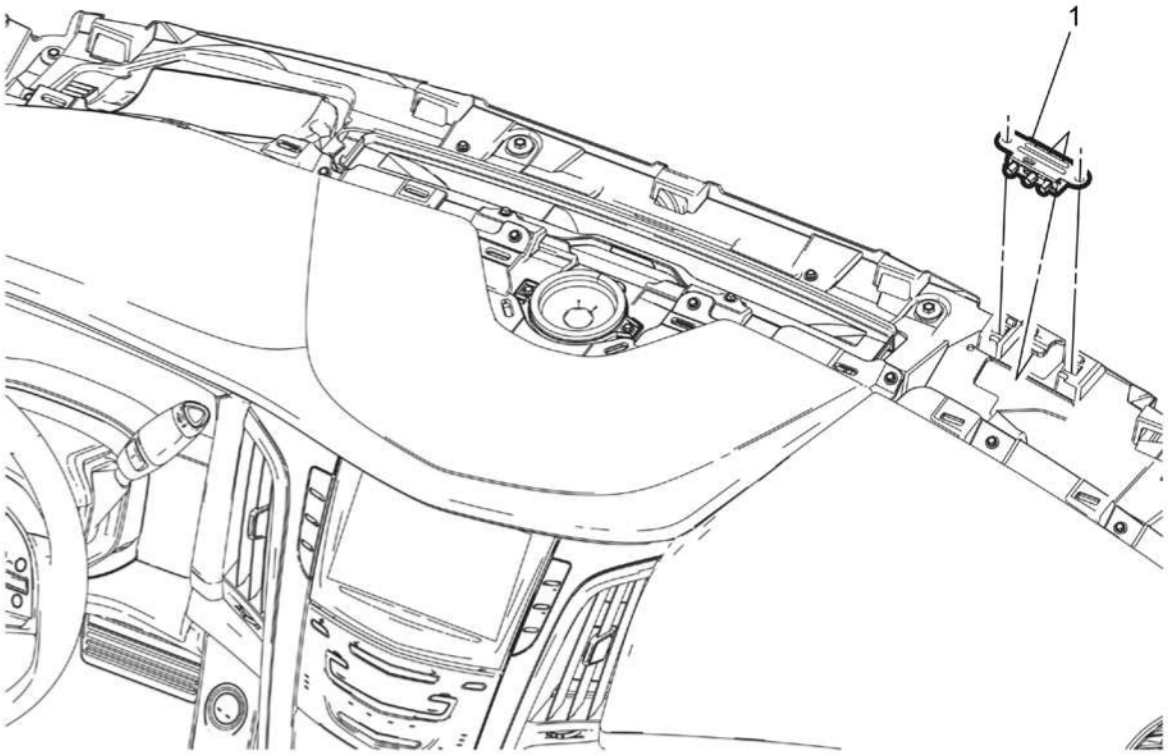


Fig. 118: Navigation Signal Splitter
Courtesy of GENERAL MOTORS COMPANY

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

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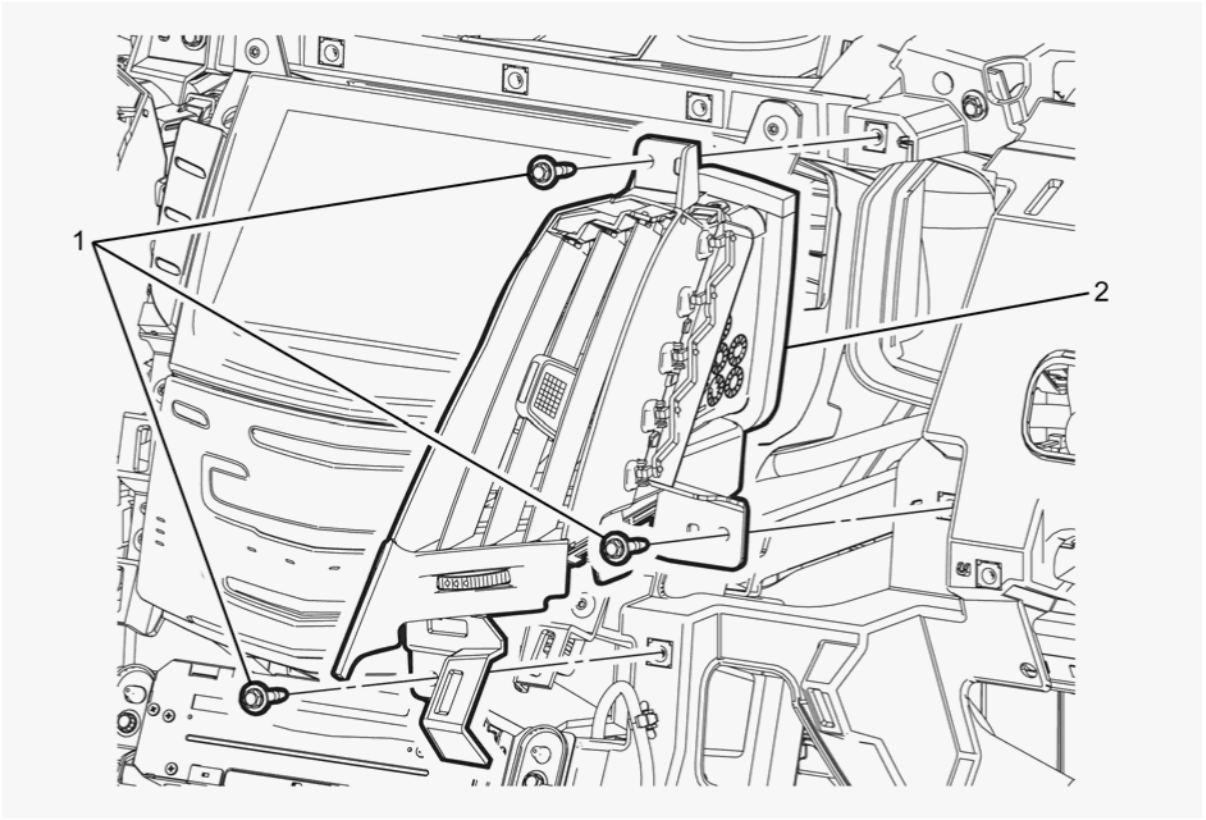


Fig. 119: Right Instrument Panel Center Air Outlet
Courtesy of GENERAL MOTORS COMPANY

18. Install the right instrument panel center air outlet (2). Refer to **Instrument Panel Center Air Outlet Replacement - Right Side (Cadillac)** .

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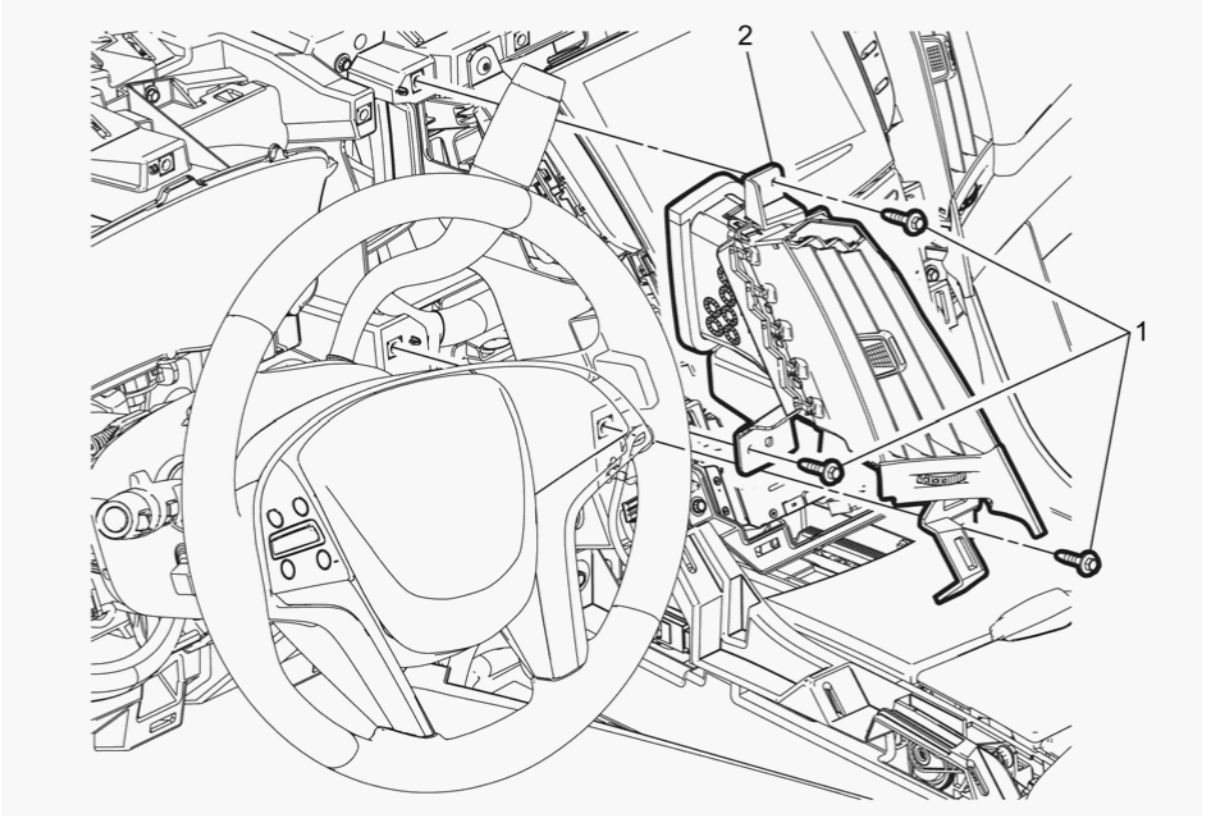


Fig. 120: Left Instrument Panel Center Air Outlet
Courtesy of GENERAL MOTORS COMPANY

19. Install the left instrument panel center air outlet (2). Refer to **Instrument Panel Center Air Outlet Replacement - Left Side (Cadillac)** .

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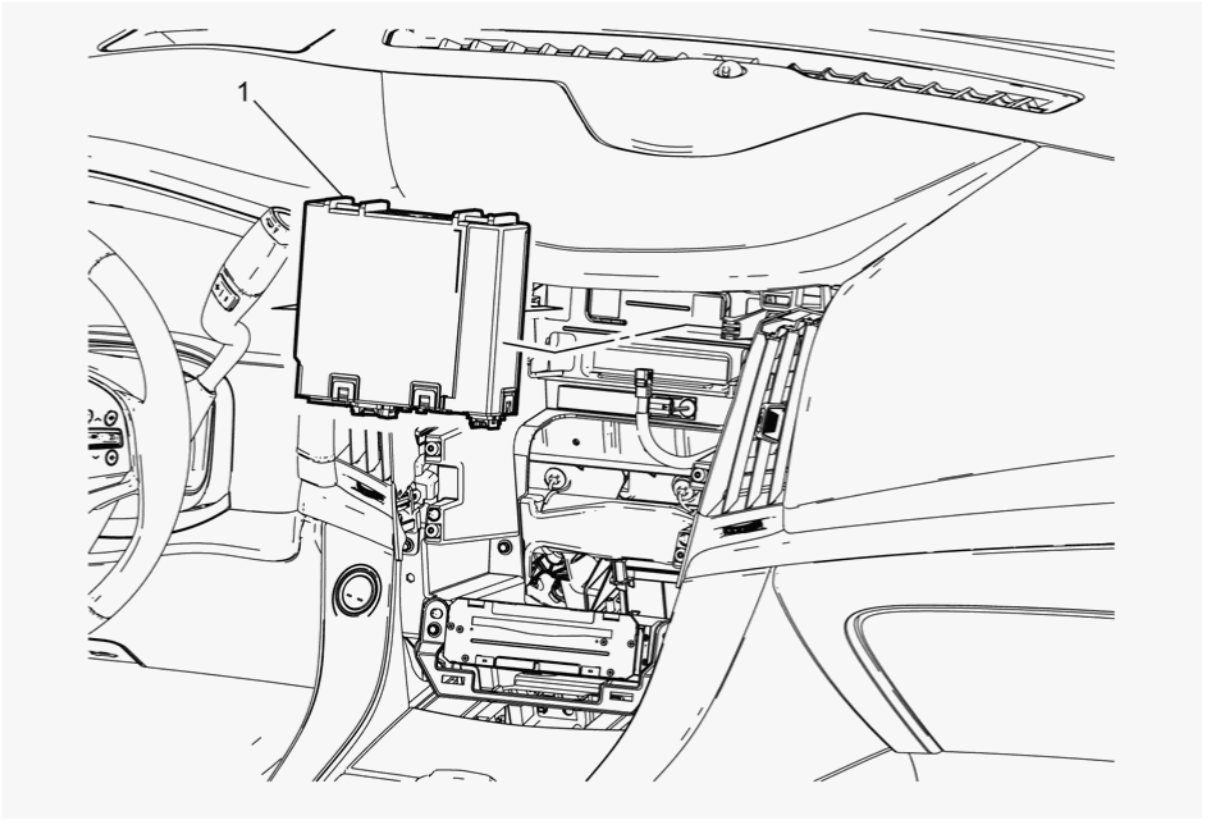


Fig. 121: Radio
Courtesy of GENERAL MOTORS COMPANY

20. Install the radio (1). Refer to **Radio Replacement (Cadillac with NGI)** **Radio Replacement (Cadillac with IOB)**

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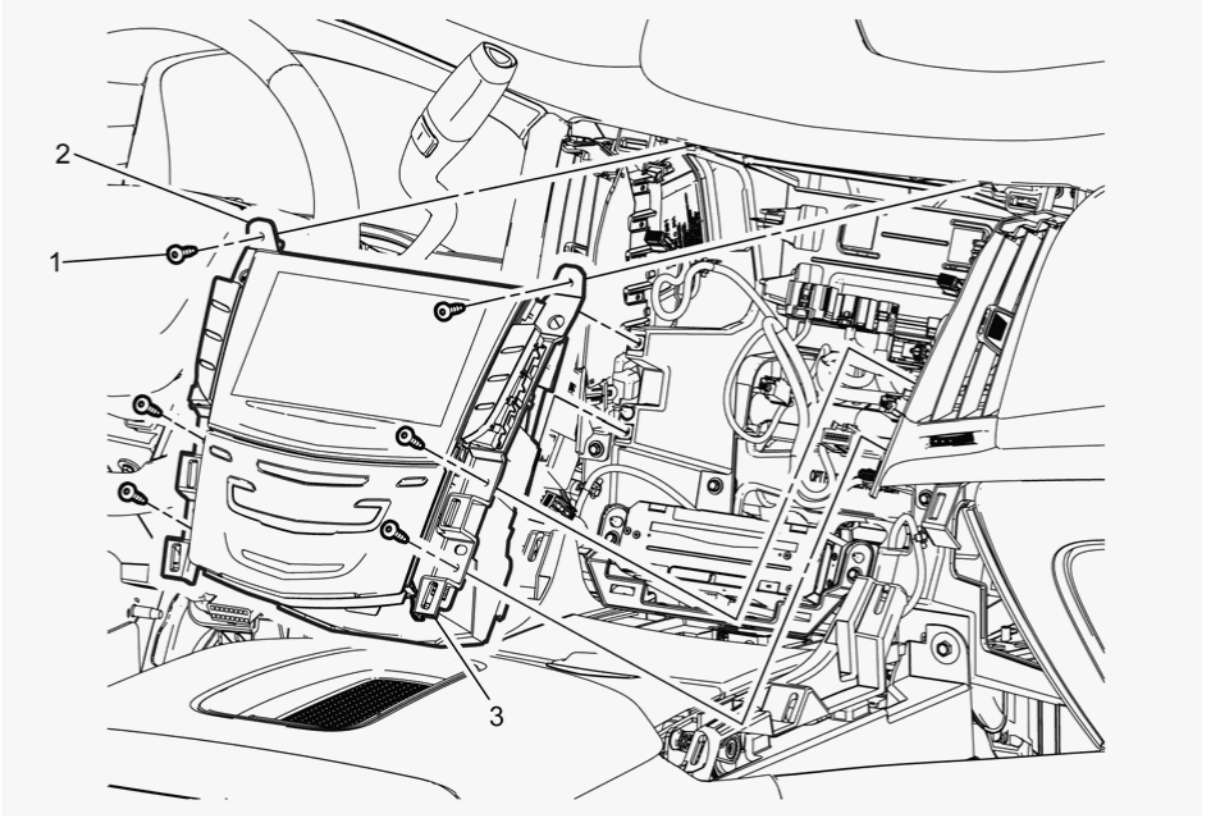


Fig. 122: Instrument Panel Upper Trim Panel Bracket
Courtesy of GENERAL MOTORS COMPANY

21. Install the instrument panel upper trim panel bracket (3). Refer to **Instrument Panel Upper Trim Panel Bracket Replacement (Cadillac)**.

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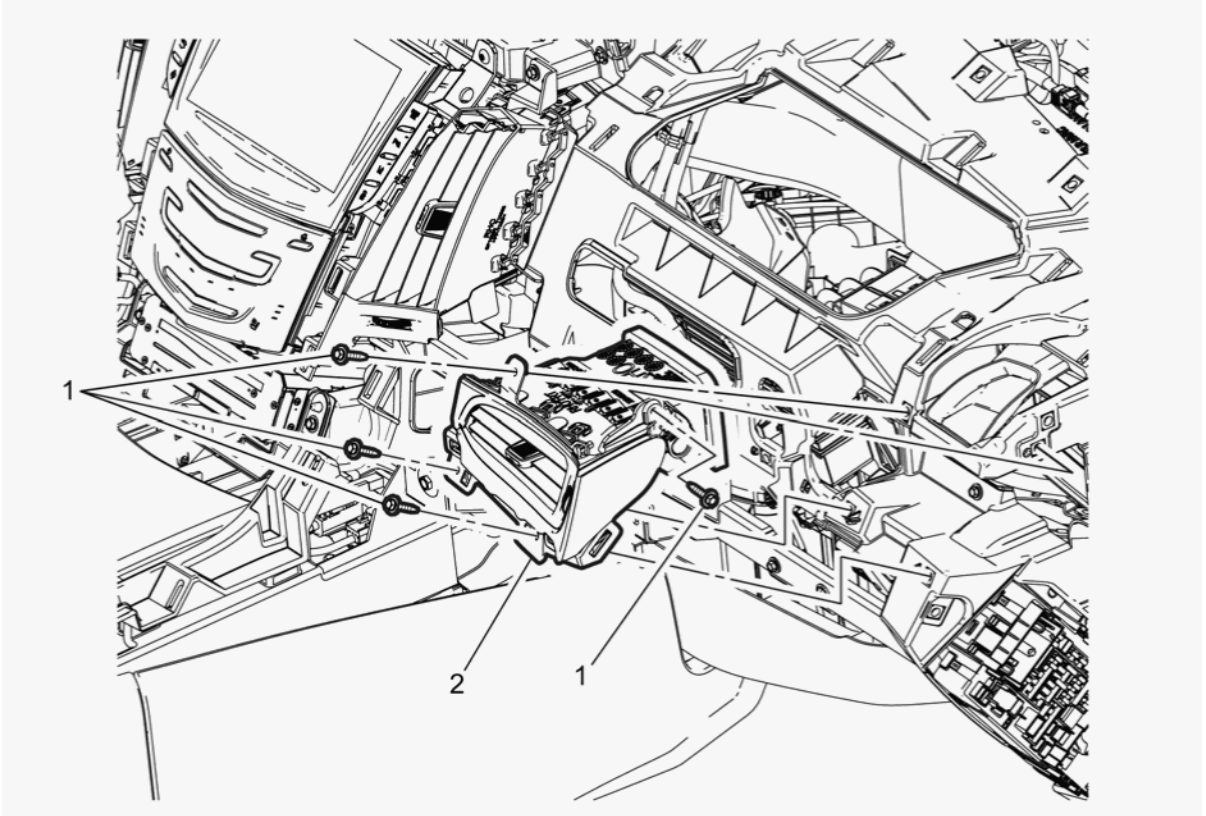


Fig. 123: Right Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

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

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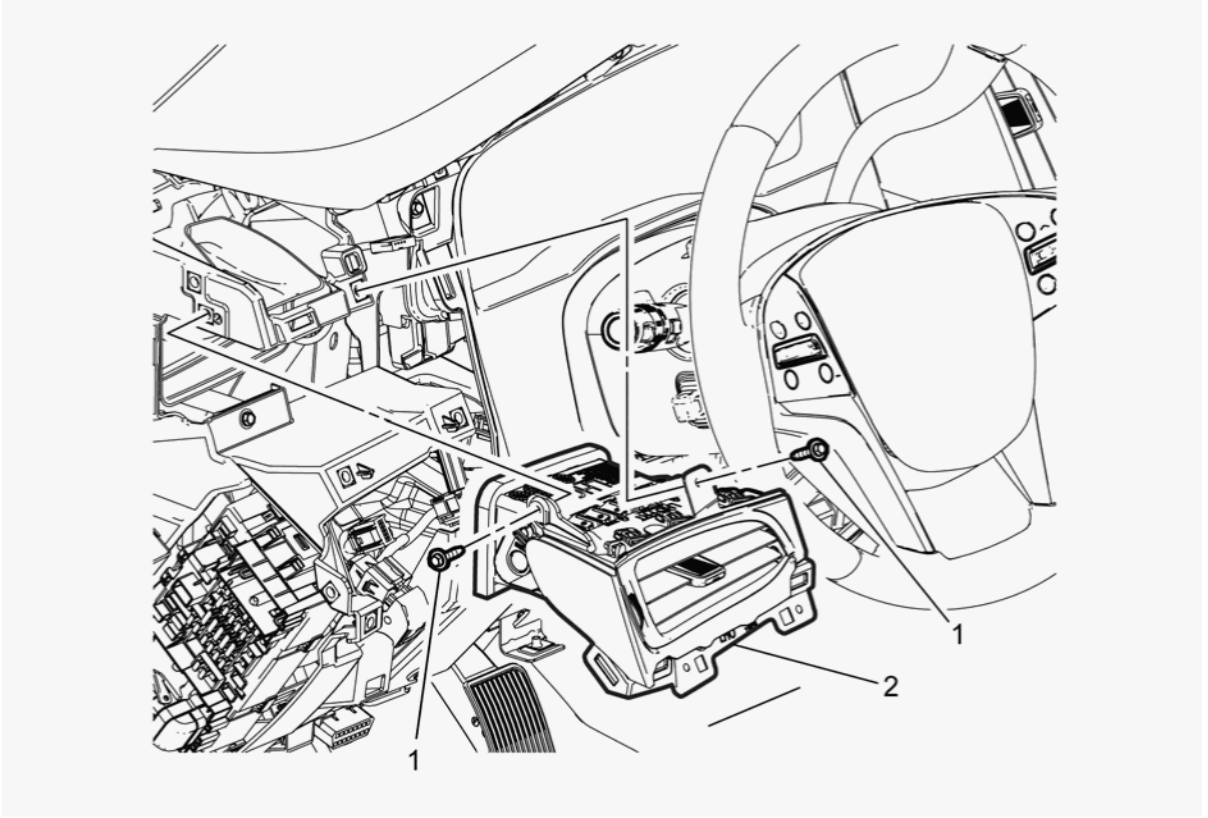


Fig. 124: Left Instrument Panel Outer Air Outlet
Courtesy of GENERAL MOTORS COMPANY

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

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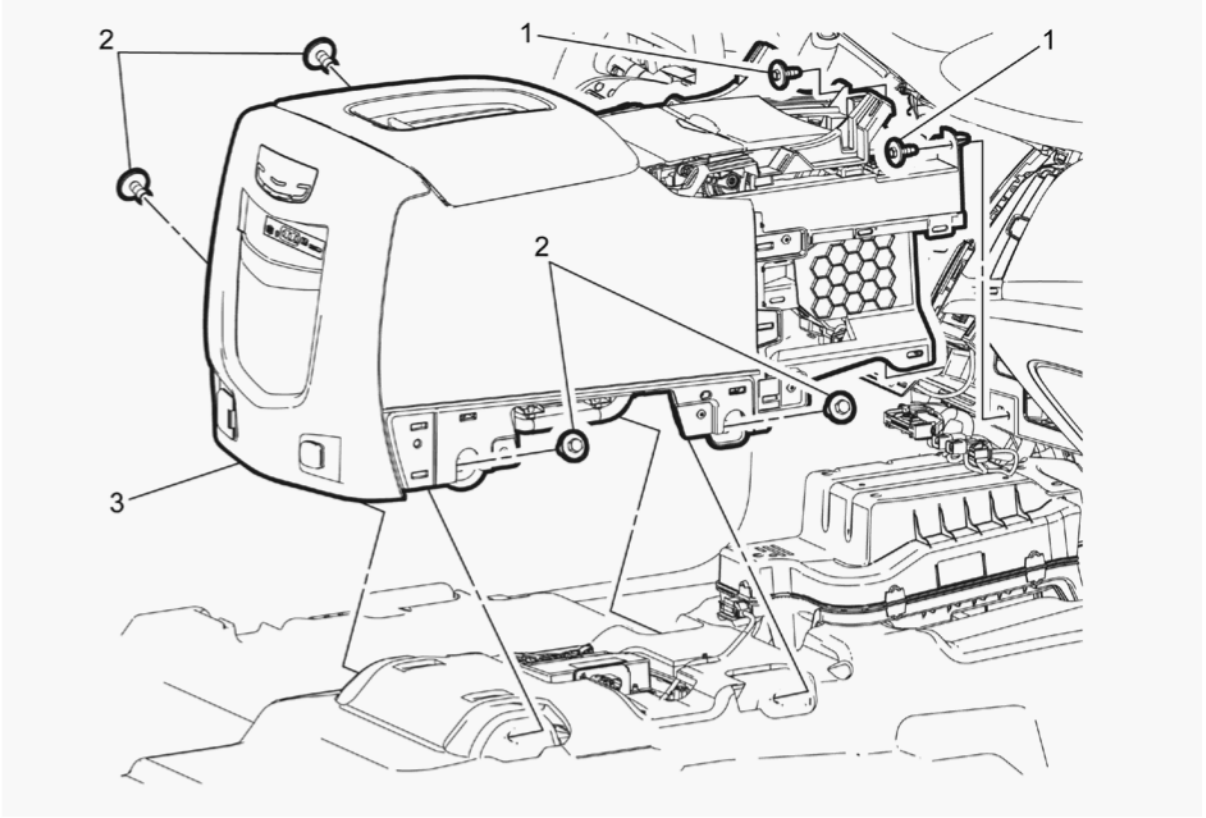


Fig. 125: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

24. Install the front floor console (3). Refer to **Front Floor Console Replacement (Cadillac)**.
25. Enable the SIR system. Refer to **SIR Disabling and Enabling** .

INSTRUMENT PANEL TIE BAR REPLACEMENT

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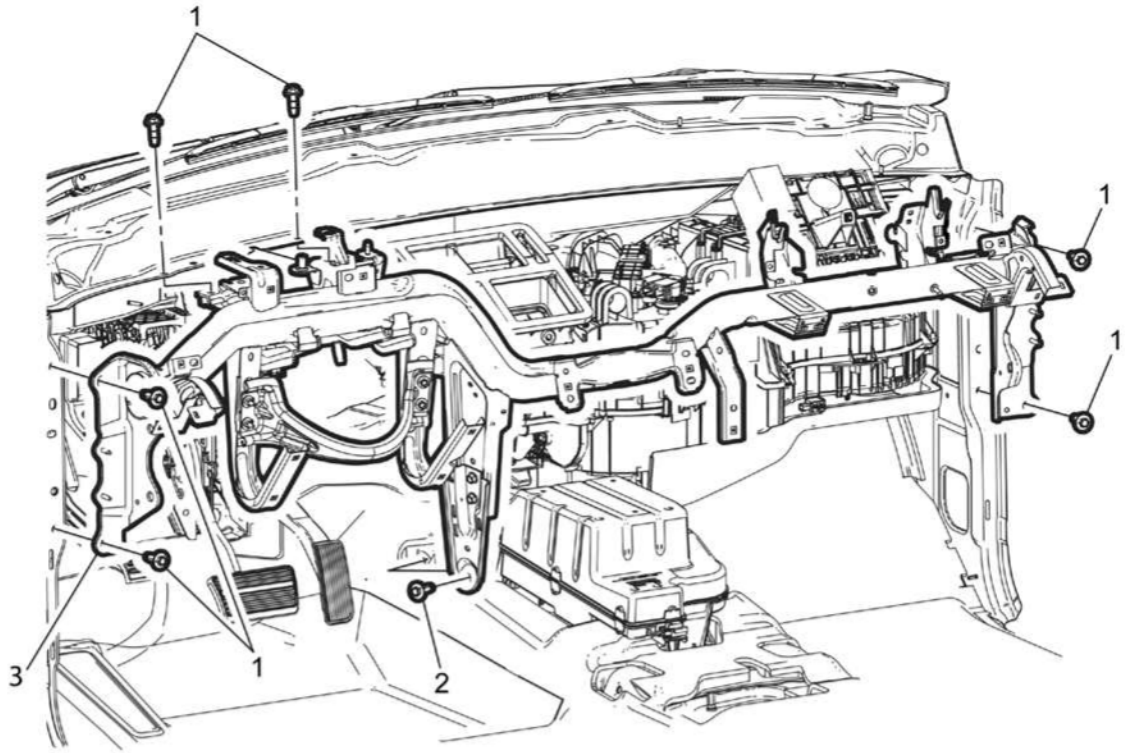


Fig. 126: Instrument Panel Tie Bar
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures	

1. Remove the left side window defogger outlet outer duct. Refer to **Side Window Defogger Outlet Outer Duct Replacement - Left Side (W/O HUD UV6)** **Side Window Defogger Outlet Outer Duct Replacement - Left Side (UV6 HUD)** .
2. Remove the right side window defogger outlet outer duct. Refer to **Side Window Defogger Outlet Outer Duct Replacement - Right Side** .
3. Remove the communication interface module bracket. Refer to **Communication Interface Module Bracket Replacement (Chevrolet / GMC)** **Communication Interface Module Bracket Replacement (Cadillac)** .
4. Remove the air distributor front duct. Refer to **Air Distributor Front Duct Replacement** .

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Callout	Component Name
5. Remove the front floor door sill garnish molding. Refer to **Front Side Door Sill Garnish Molding Replacement** . 6. Remove the human machine interface control module bracket. Refer to **Human Machine Interface Control Module Bracket Replacement (Chevrolet / GMC)** **Human Machine Interface Control Module Bracket Replacement (Cadillac)** .	
1	Instrument Panel Bolt (Qty: 6) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 22 N.m (16 lb ft)
2	Instrument Panel Tie Bar Brace Bolt **Tighten** 22 N.m (16 lb ft)
3	Instrument Panel Tie Bar **Procedure** 1. Note the location and routing of the instrument panel wiring harness in order to ensure proper installation. 2. Support the HVAC module in order to prevent damage. 3. With the aid of an assistant remove the instrument panel tie bar assembly from the vehicle. 4. Transfer components as necessary.

DASH PANEL INNER INSULATOR REPLACEMENT

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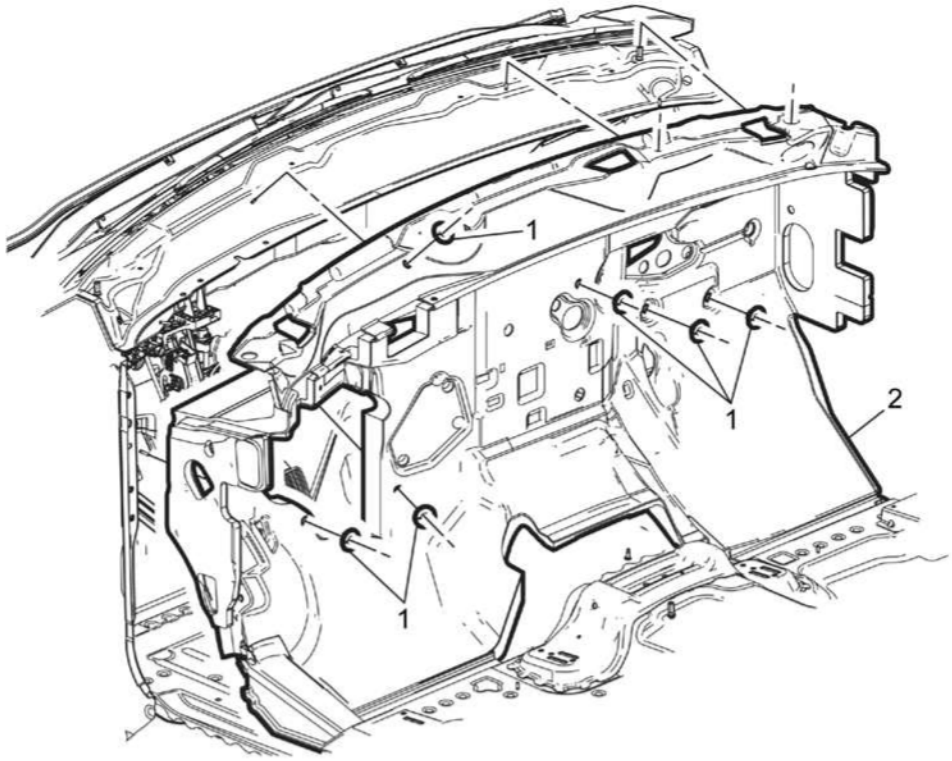


Fig. 127: Dash Panel Inner Insulator
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. **Heater and Air Conditioning Evaporator and Blower Module Removal and Installation** 2. **Brake and Accelerator Pedal Assembly Replacement** 3. **Parking Brake Lever Pedal Assembly Replacement** 4. **Body Wiring Harness Junction Block Replacement** 5. **Underhood Electrical Center or Junction Block Bracket Replacement**	
1	Dash Panel Inner Insulator Retainer - Female (Qty: 6)

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Callout	Component Name
2	Dash Panel Inner Insulator **Procedure** 1. Release the body wiring harness pass through grommet and route the body wiring harness from the engine compartment into the interior of the vehicle. 2. Pull back the carpet. Refer to **Front Floor Panel Carpet Replacement** .

INSTRUMENT PANEL TIE BAR BRACE REPLACEMENT

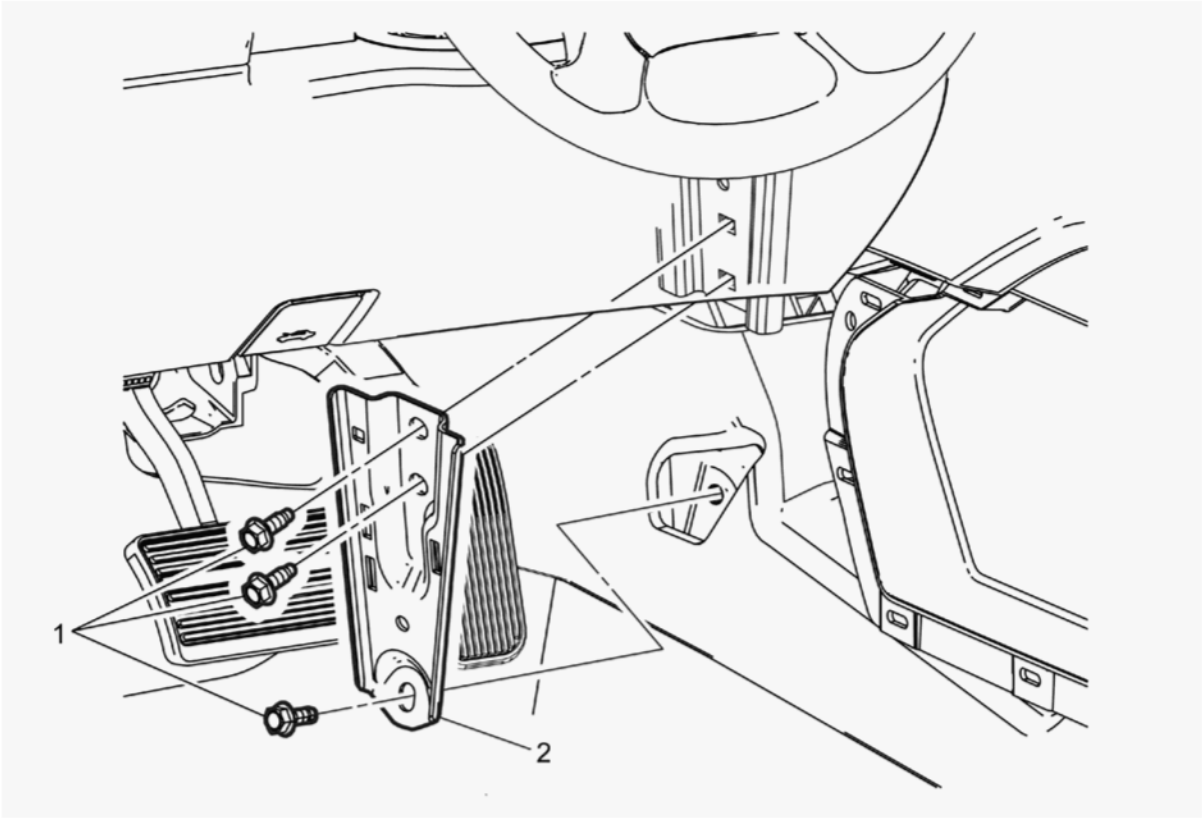


Fig. 128: Instrument Panel Tie Bar Brace
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Callout	Component Name
Preliminary Procedures 1. Remove the left front floor console extension panel, if equipped. Refer to **Front Floor Console Extension Panel Replacement - Left Side (Chevrolet / GMC)Front Floor Console Extension Panel Replacement - Left Side (Cadillac)**. 2. Remove the instrument panel lower center trim panel, if equipped. Refer to **Instrument Panel Lower Center Trim Panel Replacement (Chevrolet / GMC)**.	
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
- **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

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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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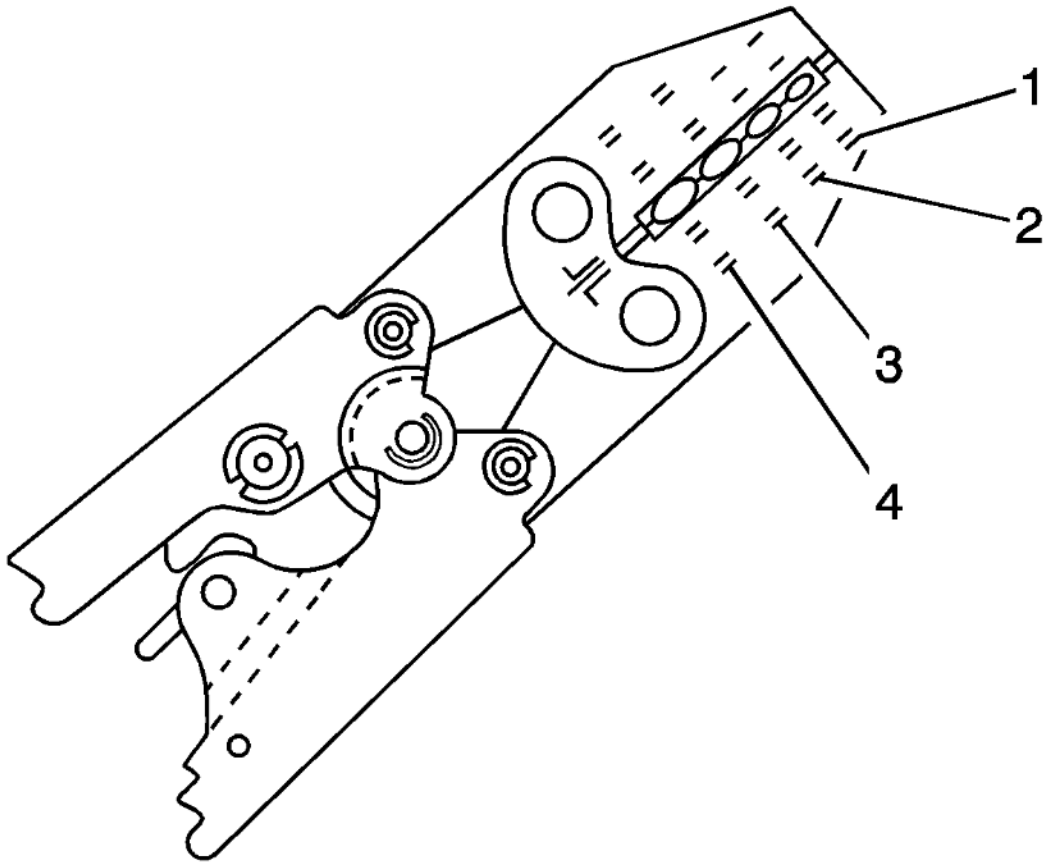


Fig. 129: Splice Sleeve Crimping Tool With 4 Crimp Nests
Courtesy of GENERAL MOTORS COMPANY

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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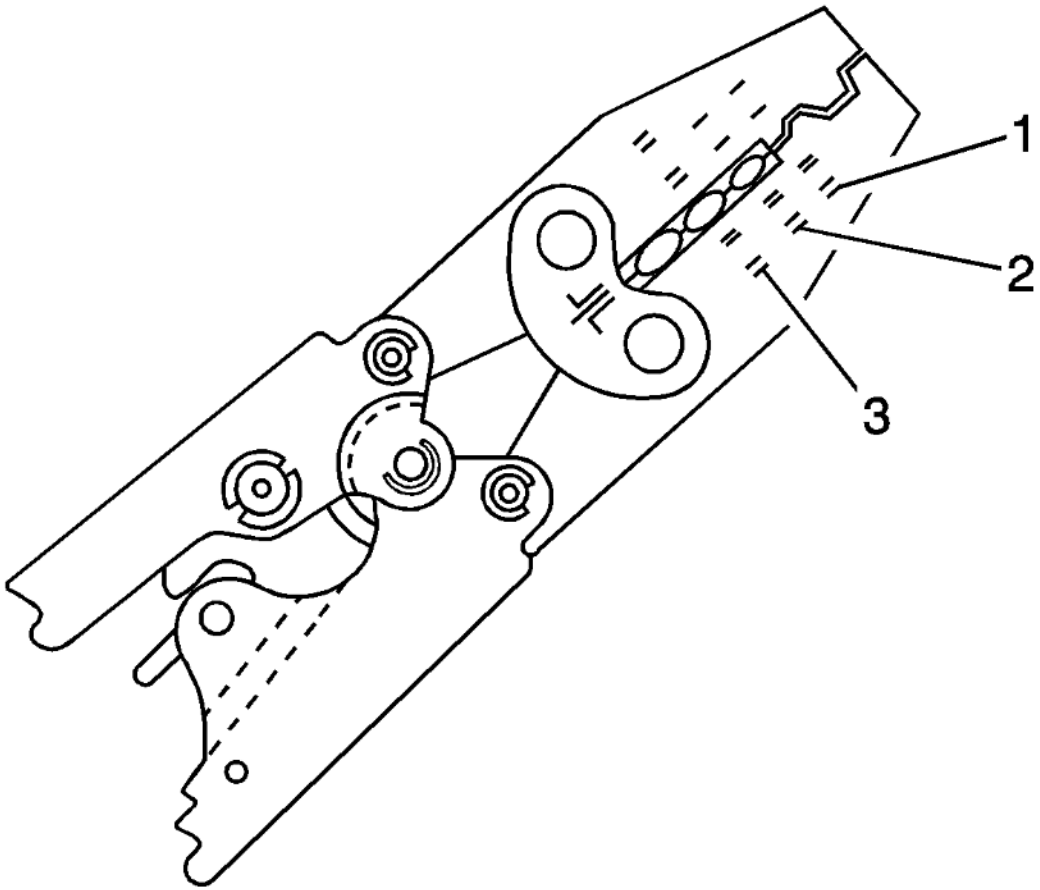


Fig. 130: Splice Sleeve Crimping Tool With 3 Crimp Nests
Courtesy of GENERAL MOTORS COMPANY

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

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crimp the splice sleeves. Use the four and three crimp tool diagrams (above) and the table (farther above) to match the splice sleeve with the correct crimp nest. The crimp tool diagram callout numbers match the numbers in the table (under crimp tool nest color).

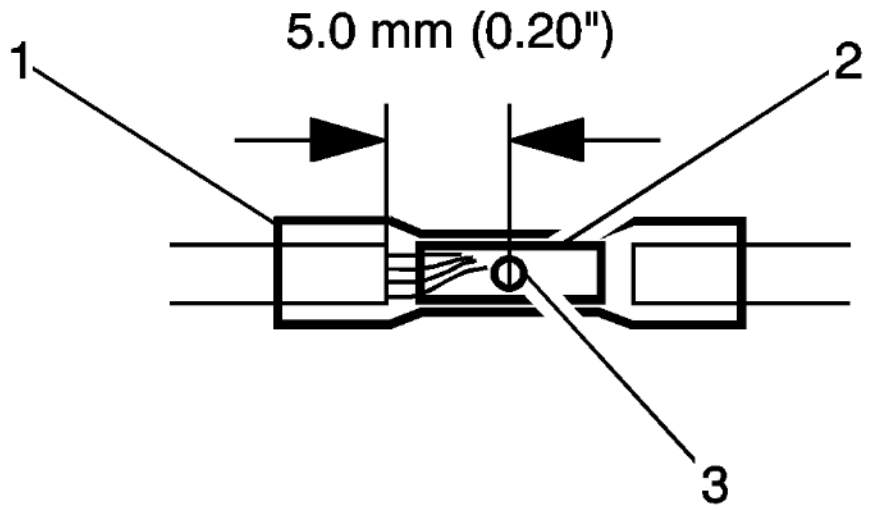


Fig. 131: Identifying Duraseal Splice Sleeve
Courtesy of GENERAL MOTORS COMPANY

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

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firmly hold the DuraSeal splice sleeve in the proper nest.



Fig. 132: Crimped Duraseal Splice Sleeve
Courtesy of GENERAL MOTORS COMPANY

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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. 133: 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:

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- 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.**

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.

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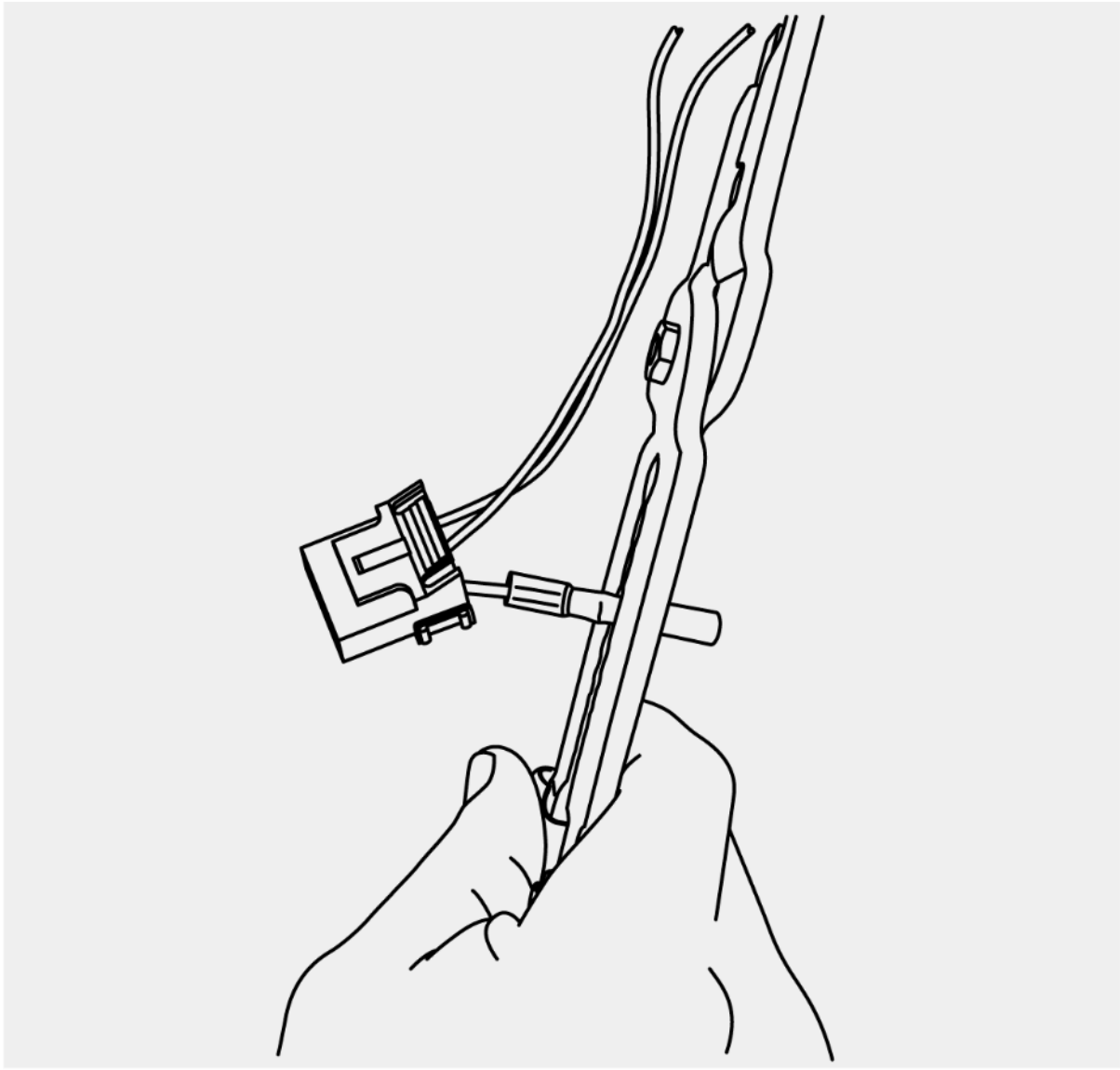


Fig. 134: Tightly Close Handles Of Crimp Tool
Courtesy of GENERAL MOTORS COMPANY

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

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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.

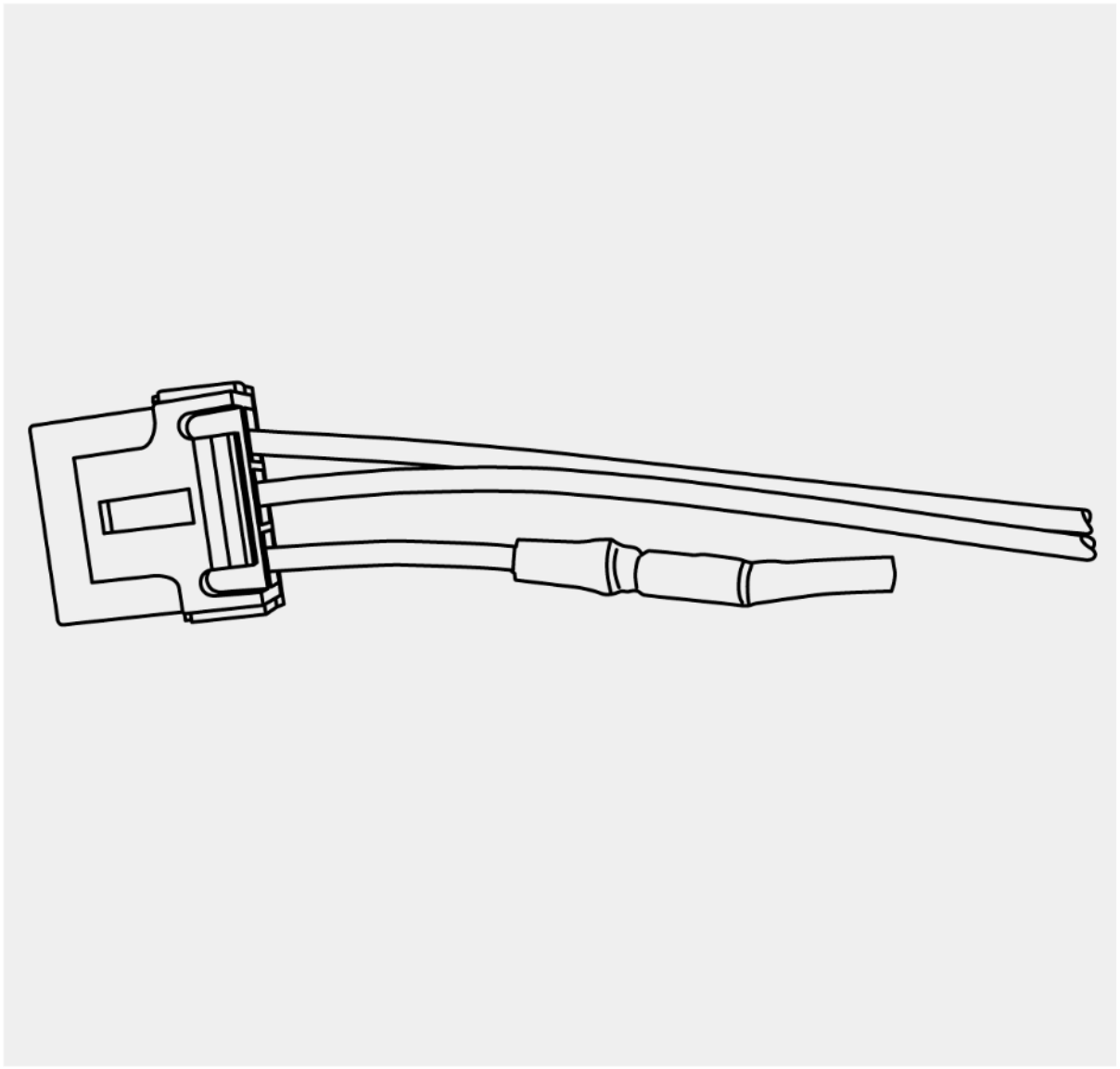


Fig. 135: Applying Heat To Crimped Area Of Barrel
Courtesy of GENERAL MOTORS COMPANY

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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.

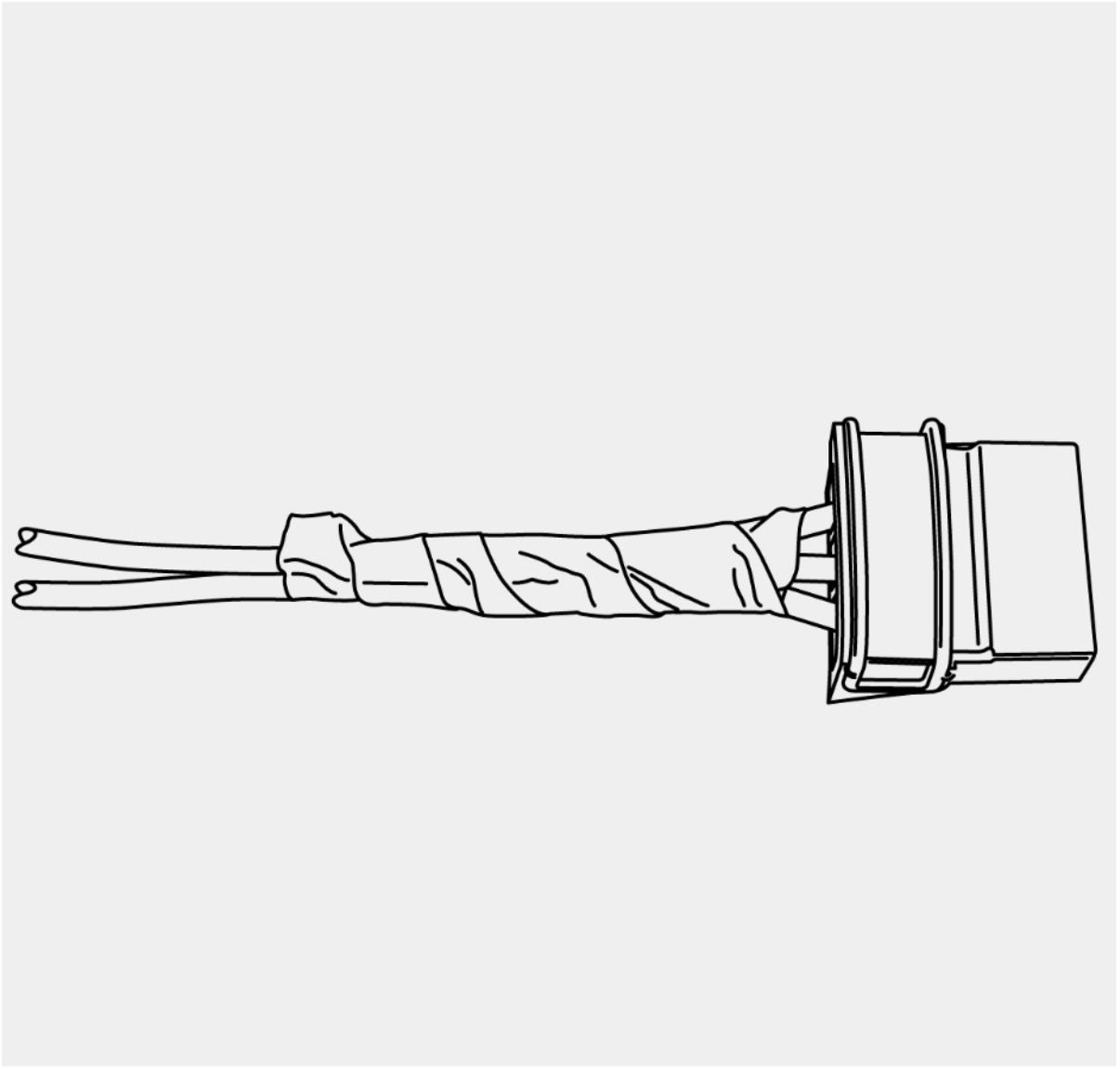


Fig. 136: Taping Extra Terminated Leads Back Into Harness
Courtesy of GENERAL MOTORS COMPANY

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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

Special Tools

EL-35616 Terminal Test Probe Kit

For equivalent regional tools, refer to **Special Tools** .

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

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

- Wiring broken inside the insulation
- Poor connection between the male and female terminal at a connector
- 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

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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.

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

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

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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** .

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 not operating. Refer to **Checking Aftermarket Accessories** .

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- 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 (CHEVROLET / GMC)

Removal Procedure

1. Remove the front floor console. Refer to **Front Floor Console Replacement (Chevrolet / GMC)**.
2. Remove the front floor console rear trim panel. Refer to **Front Floor Console Rear Trim Panel Replacement (Chevrolet / GMC)**.
3. Remove the front floor console front compartment. Refer to **Front Floor Console Front Compartment Replacement (Chevrolet / GMC)**.

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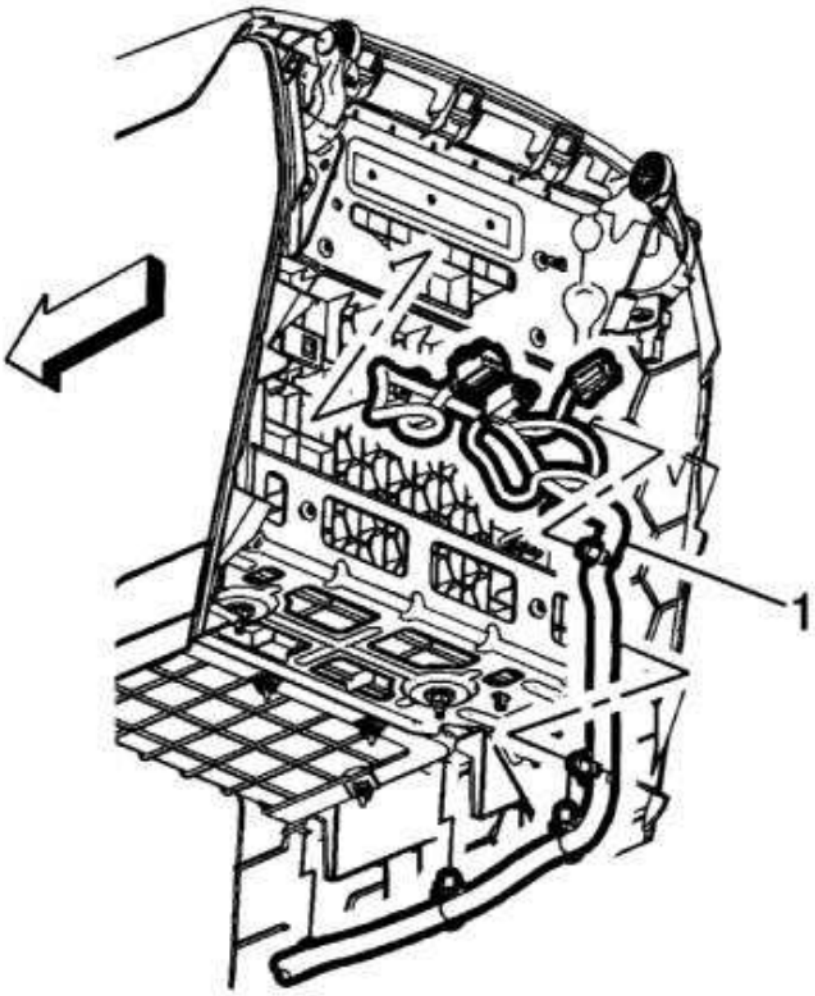


Fig. 137: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

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

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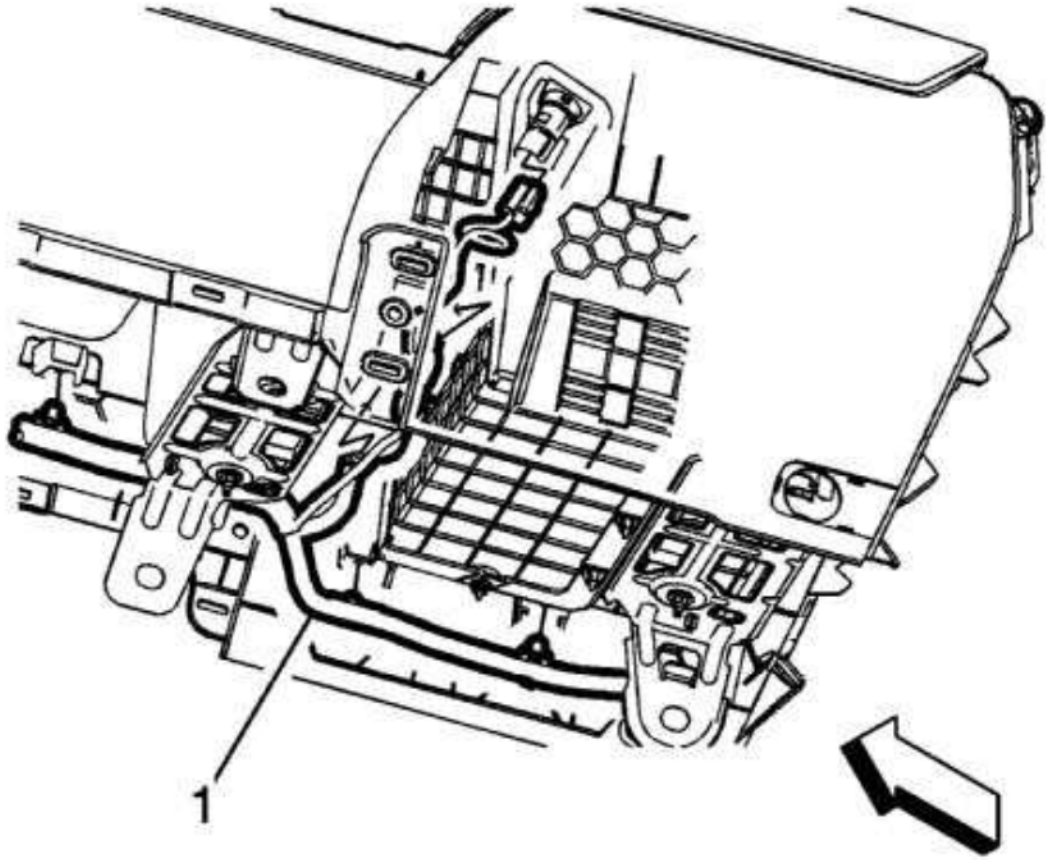


Fig. 138: Harness Retainers And Connectors
Courtesy of GENERAL MOTORS COMPANY

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

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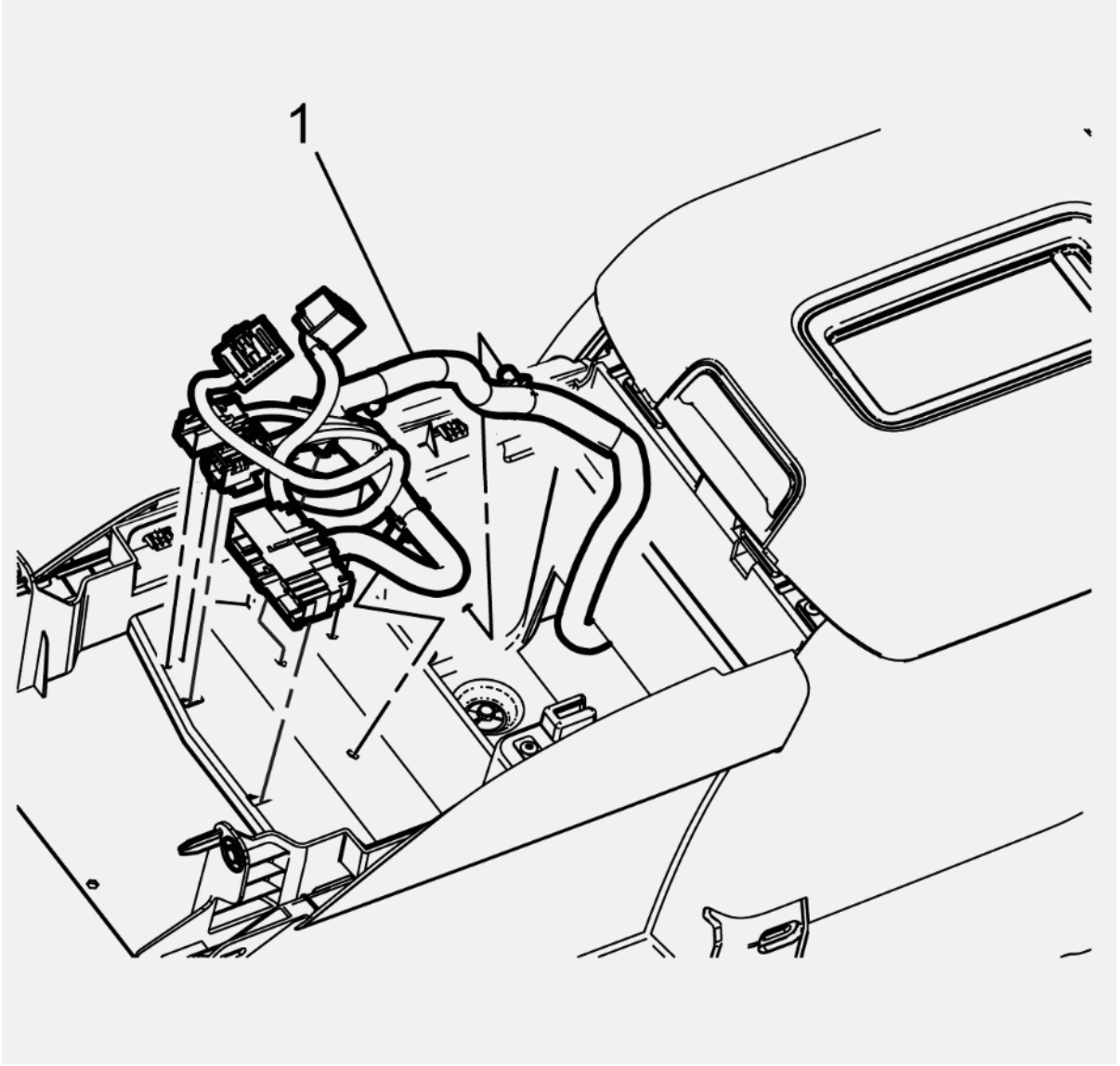


Fig. 139: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

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

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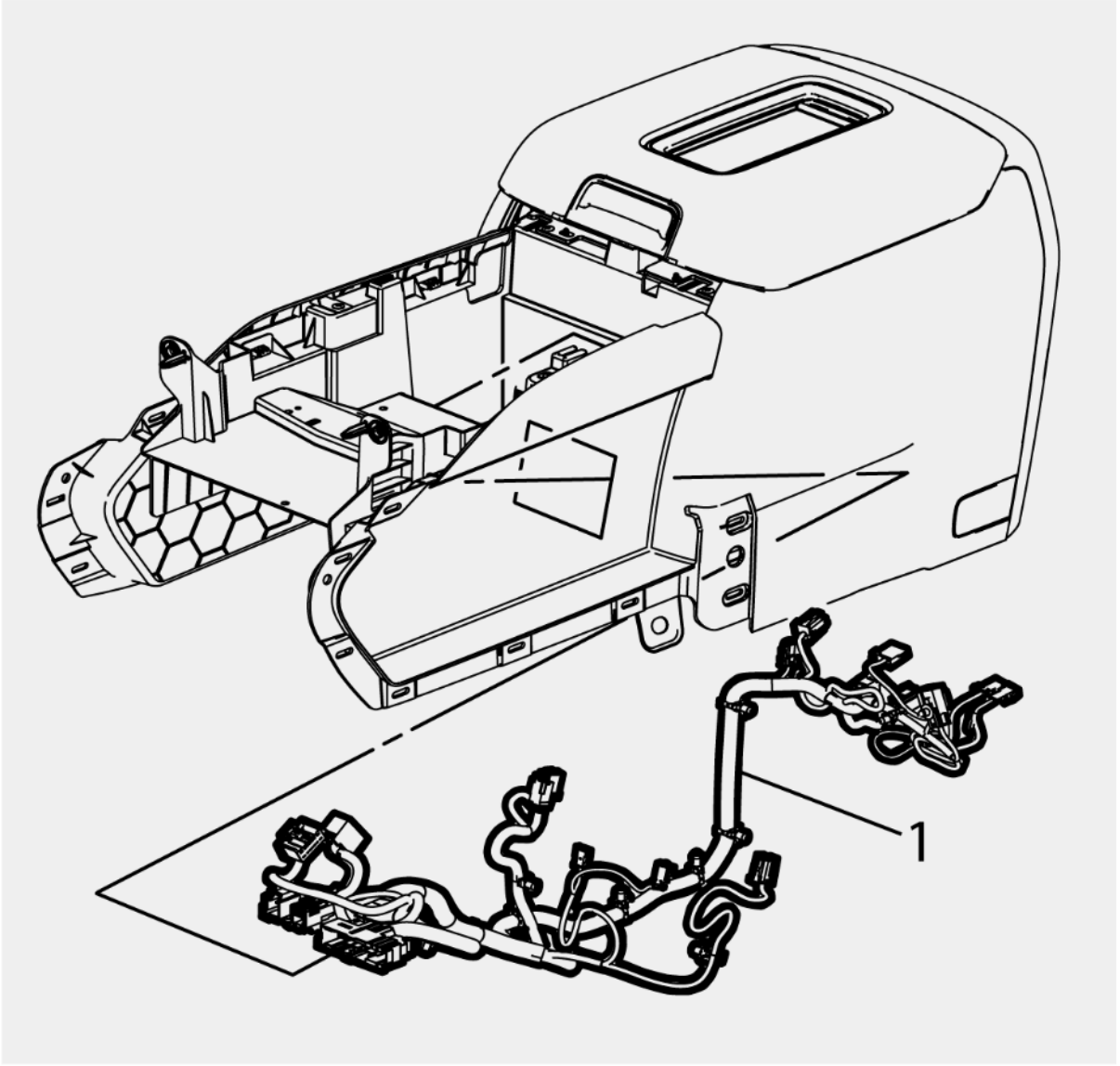


Fig. 140: Harness
Courtesy of GENERAL MOTORS COMPANY

7. Remove the harness (1) through the access hole of the front floor console assembly.

Installation Procedure

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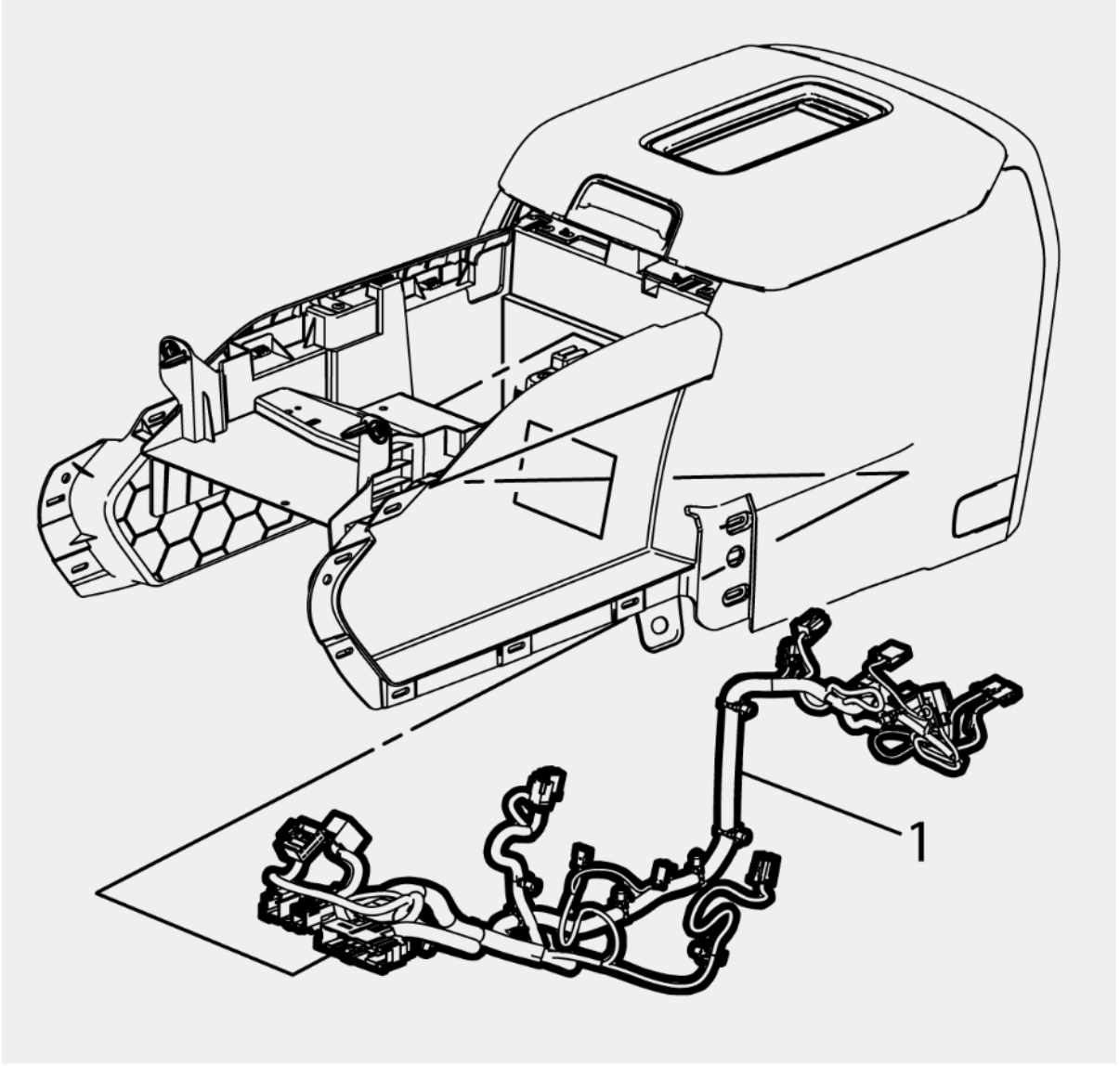


Fig. 141: Harness
Courtesy of GENERAL MOTORS COMPANY

1. Reposition the harness (1) through the access hole of the front floor console assembly.

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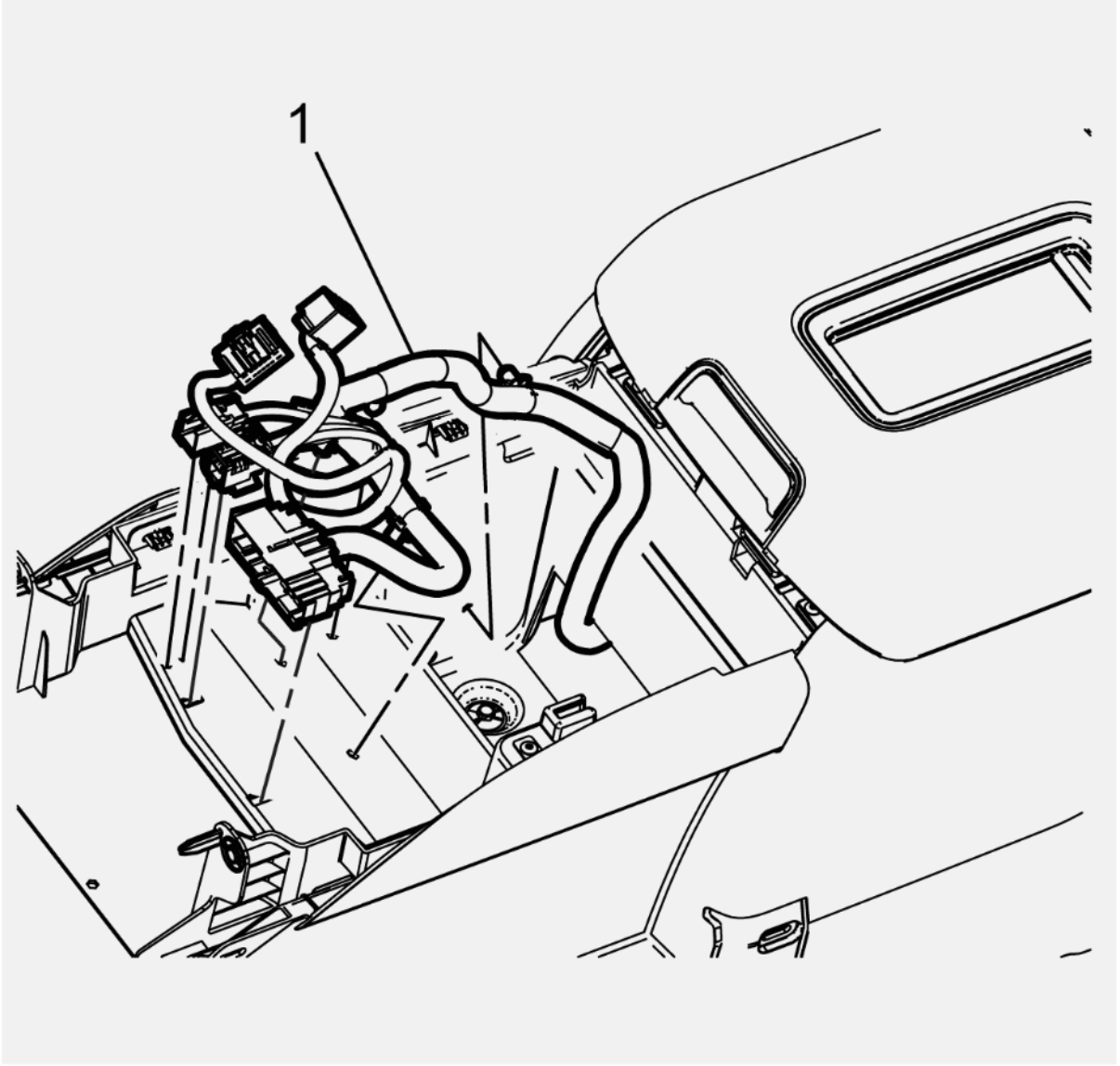


Fig. 142: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

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

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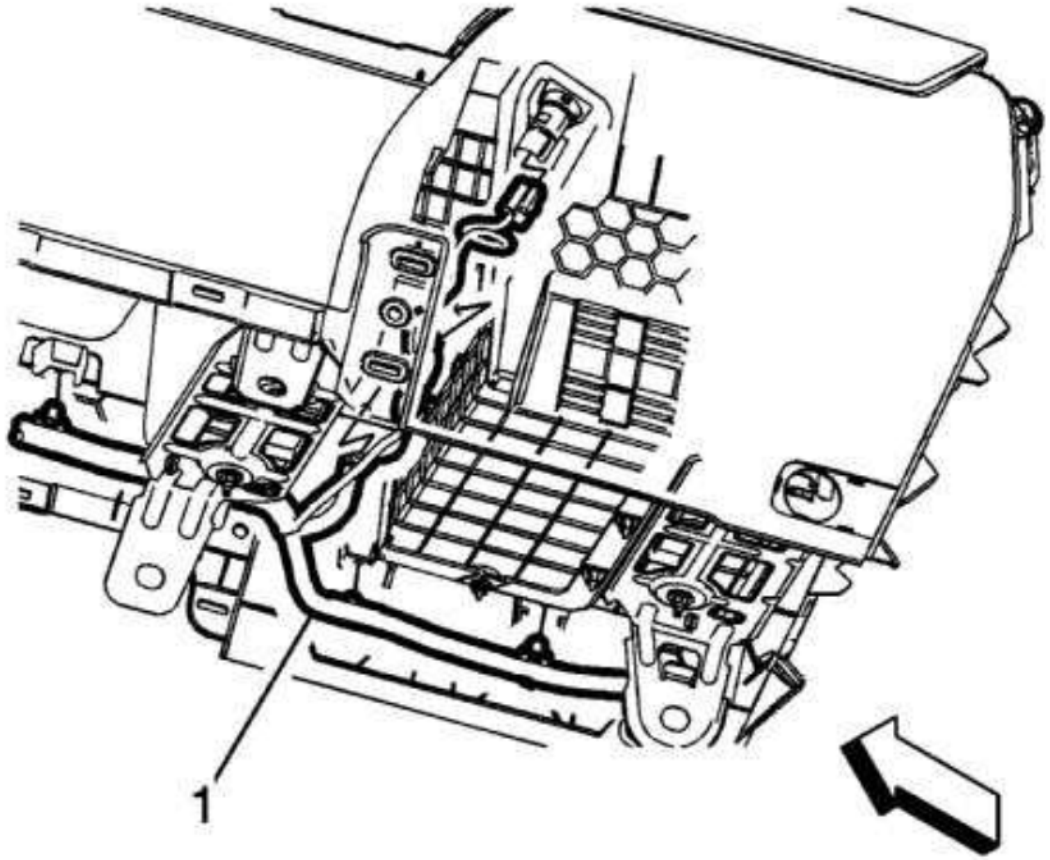


Fig. 143: Harness Retainers And Connectors
Courtesy of GENERAL MOTORS COMPANY

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

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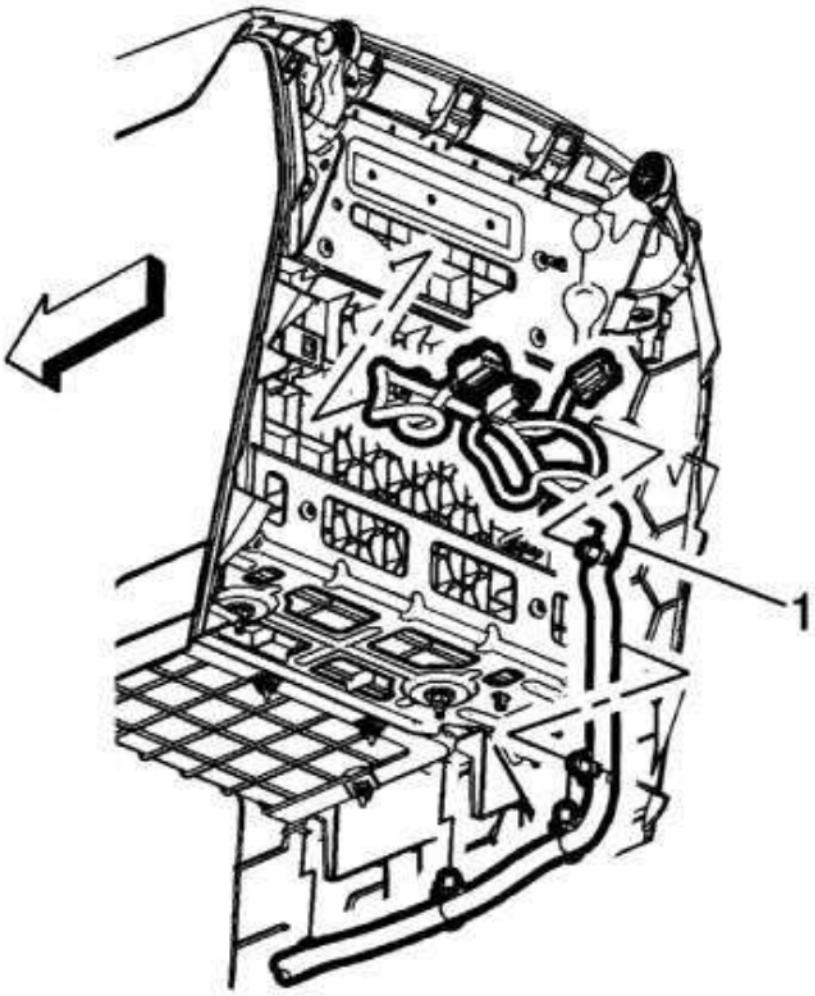


Fig. 144: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

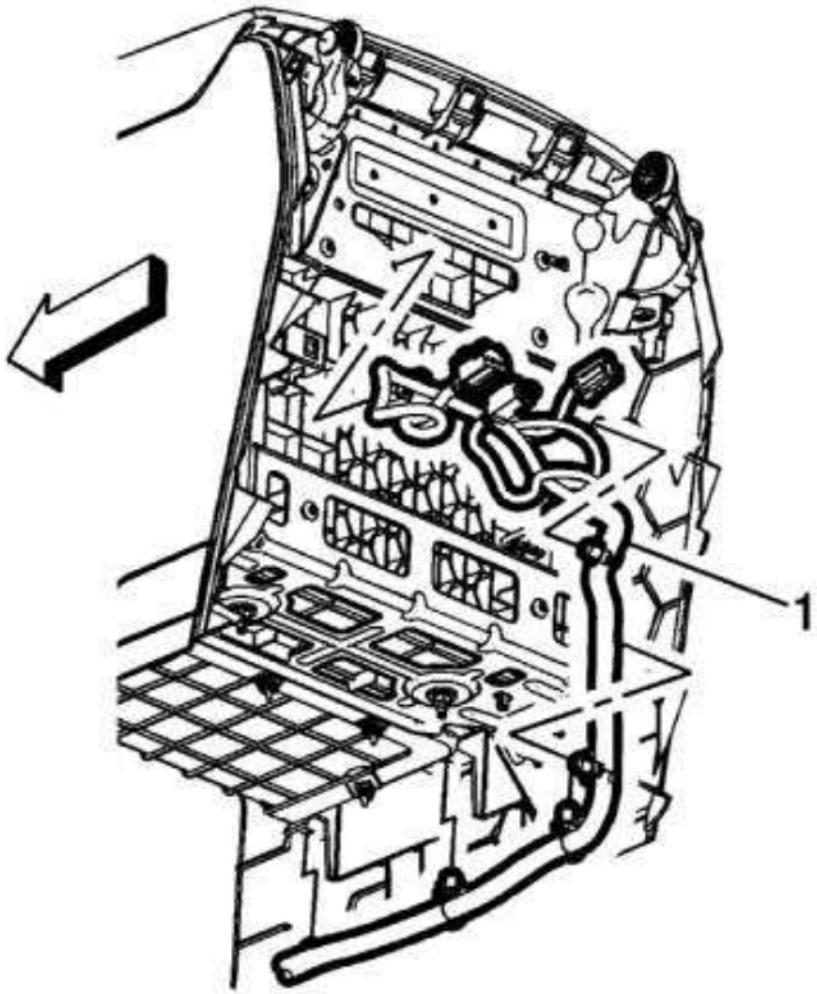
4. Connect the harness retainers (1) securing the wiring harness to the front floor console assembly.
5. Install the front floor console front compartment. Refer to **Front Floor Console Front Compartment Replacement (Chevrolet / GMC)**.
6. Install the front floor console rear trim panel. Refer to **Front Floor Console Rear Trim Panel Replacement (Chevrolet / GMC)**.
7. Install the front floor console. Refer to **Front Floor Console Replacement (Chevrolet / GMC)**.

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FRONT FLOOR CONSOLE WIRING HARNESS REPLACEMENT (CADILLAC)

Removal Procedure

1. Remove the front floor console. Refer to **Front Floor Console Replacement (Cadillac)**.
2. Remove the front floor console compartment. Refer to **Front Floor Console Compartment Replacement (Cadillac)**.
3. Remove the front floor console rear trim panel. Refer to **Front Floor Console Rear Trim Panel Replacement (Cadillac)**.



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Fig. 145: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

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

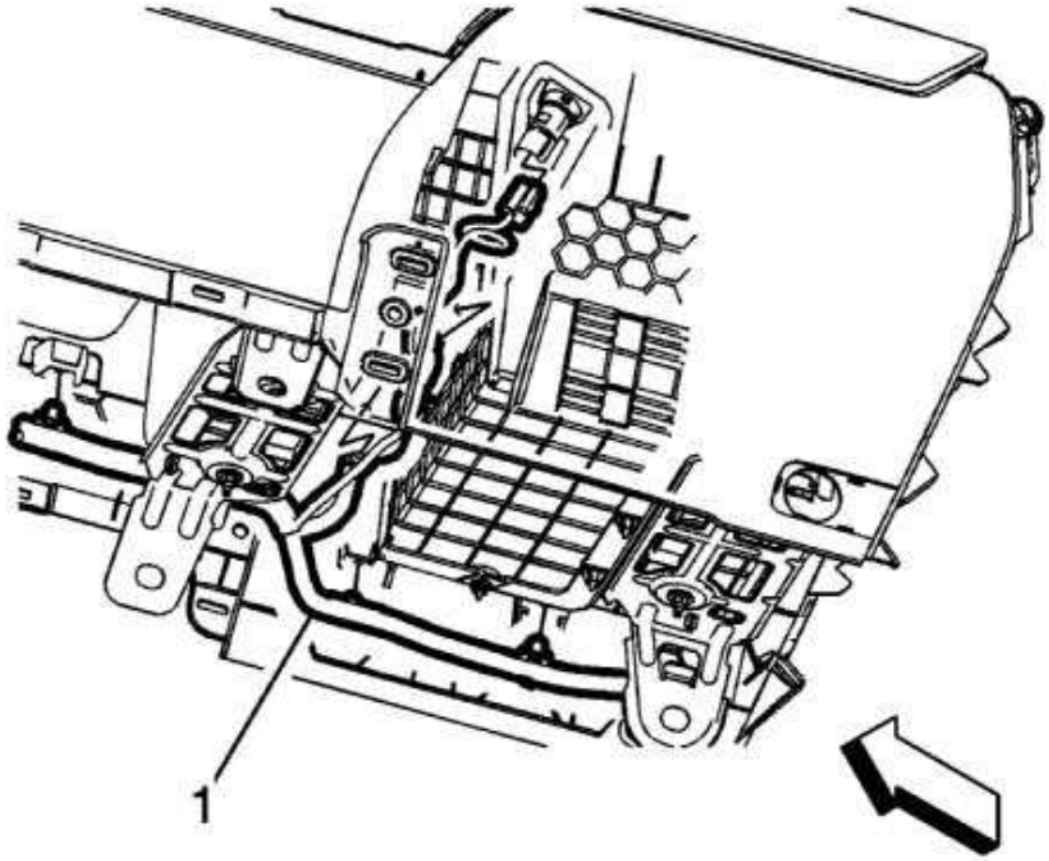


Fig. 146: Harness Retainers And Connectors
Courtesy of GENERAL MOTORS COMPANY

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

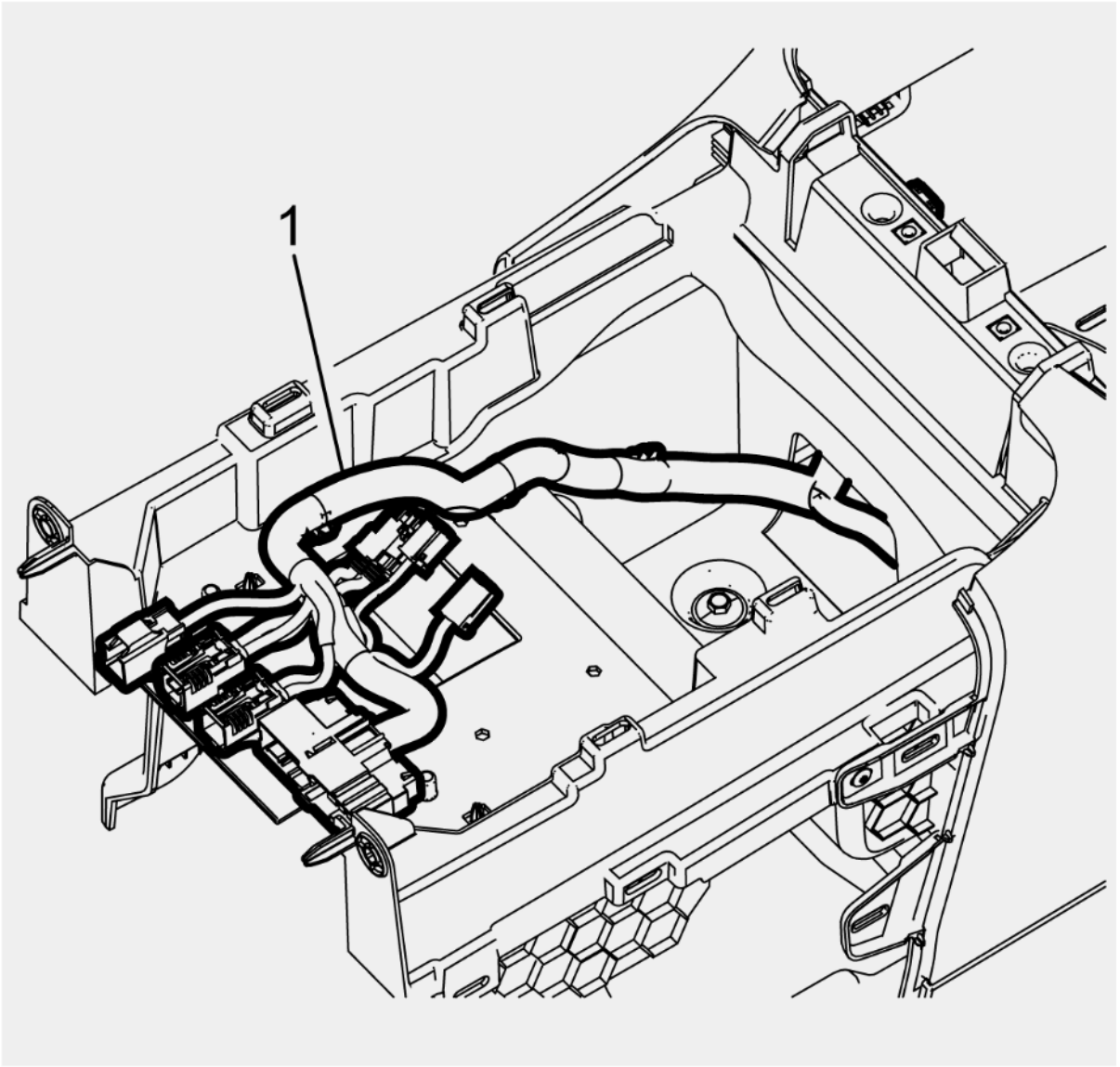


Fig. 147: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

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

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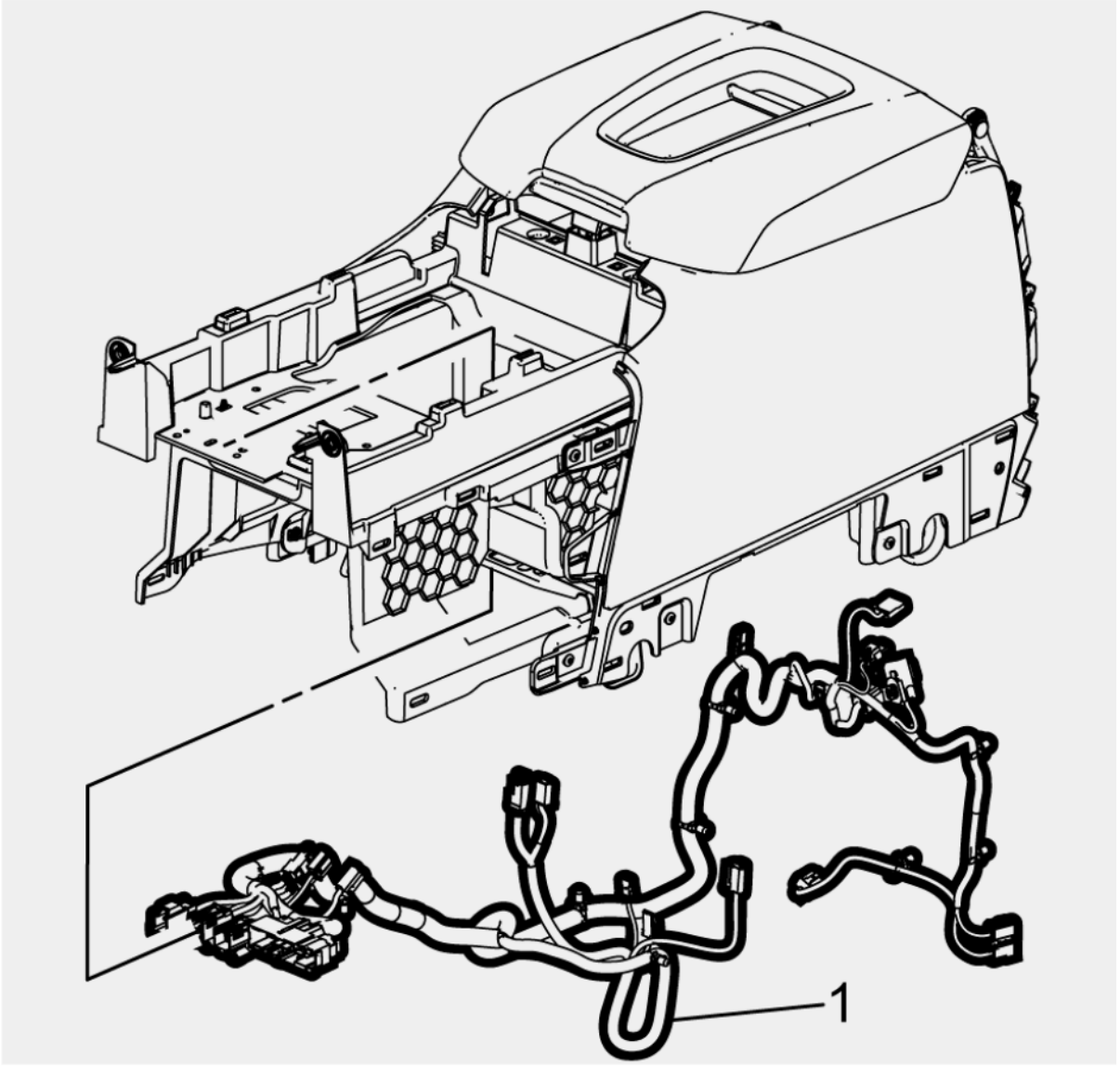


Fig. 148: Harness
Courtesy of GENERAL MOTORS COMPANY

7. Remove the harness (1) through the access hole of the front floor console assembly.

Installation Procedure

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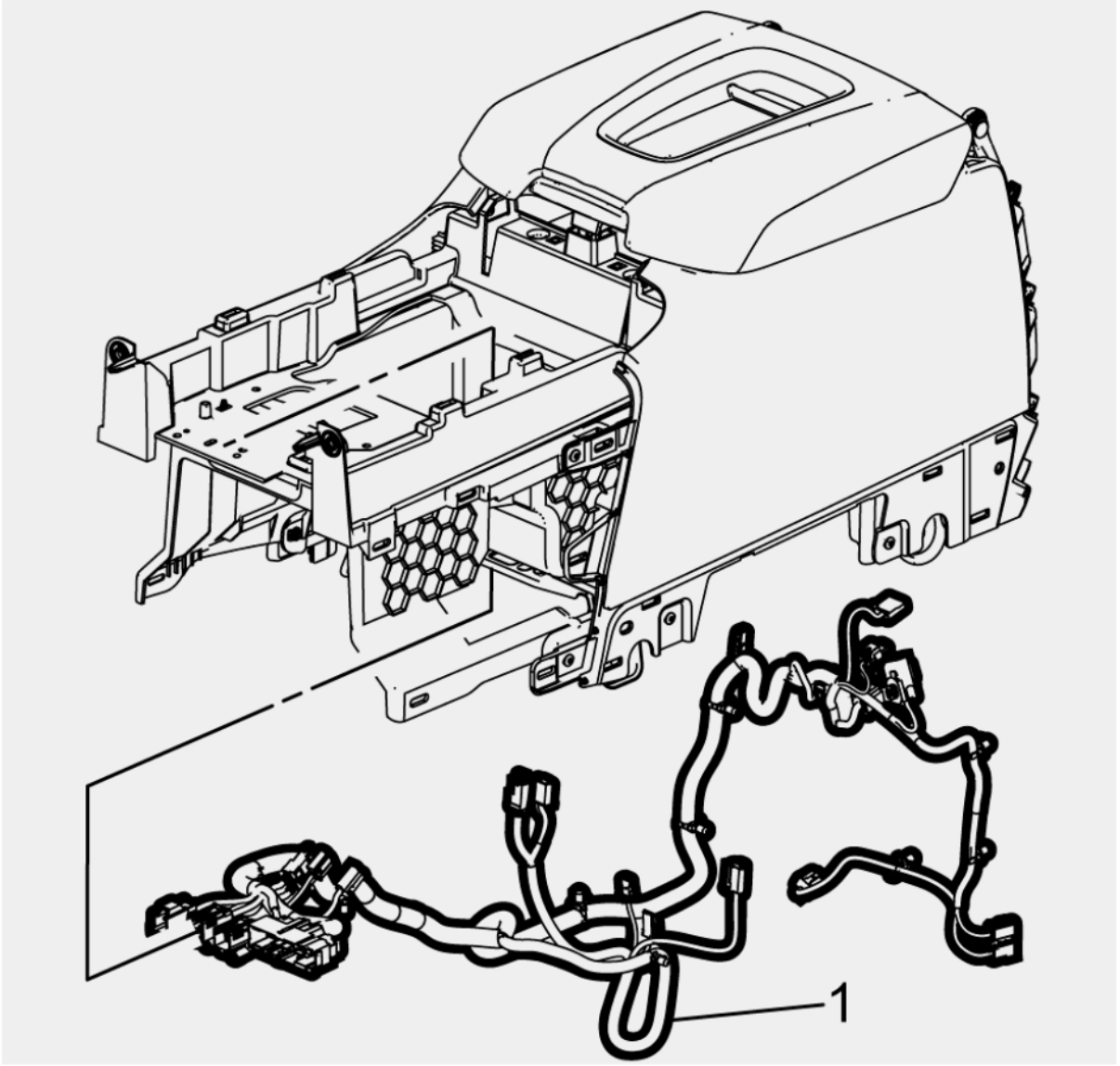


Fig. 149: Harness
Courtesy of GENERAL MOTORS COMPANY

1. Reposition the harness (1) through the access hole of the front floor console assembly.

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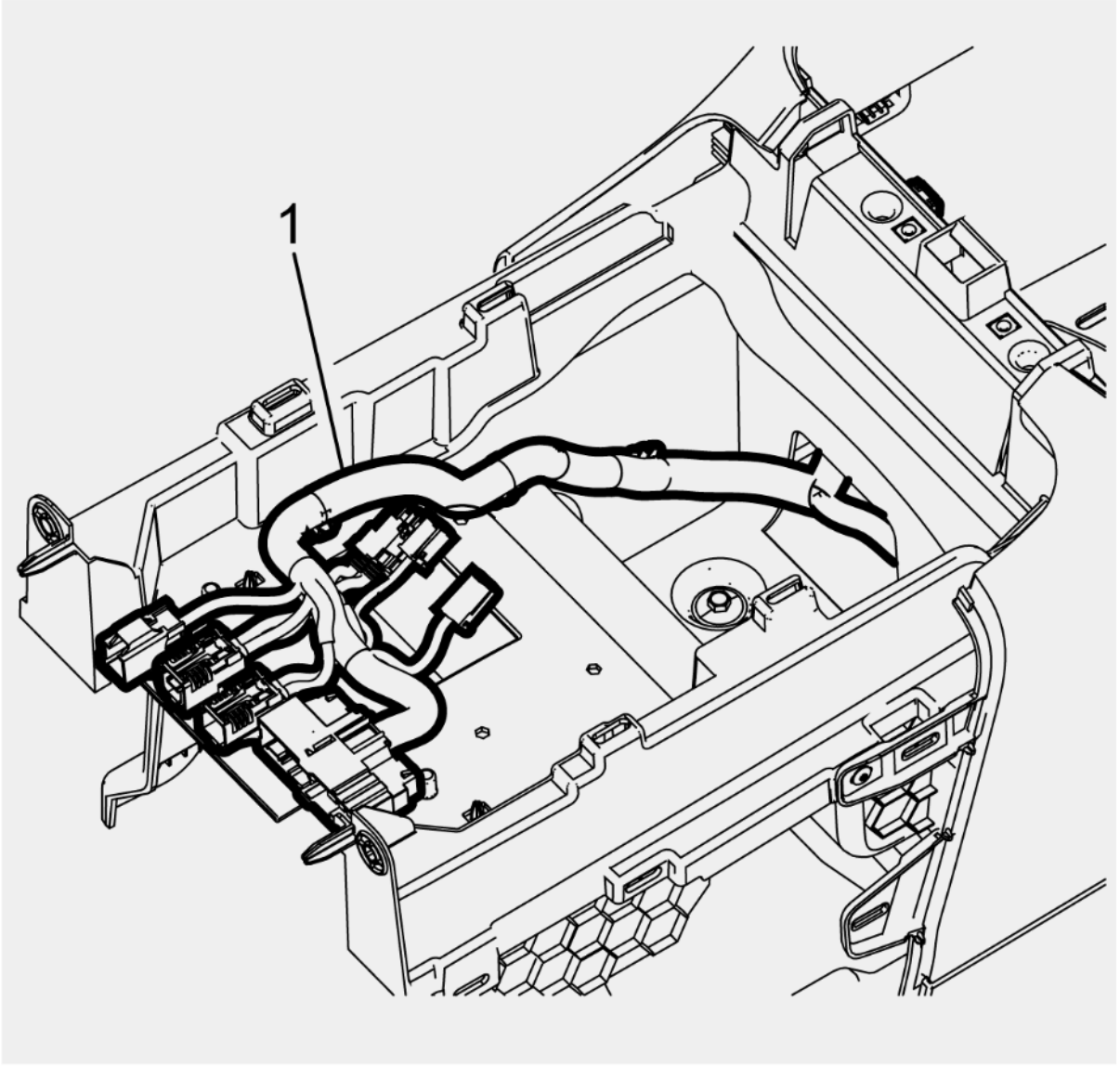


Fig. 150: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

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

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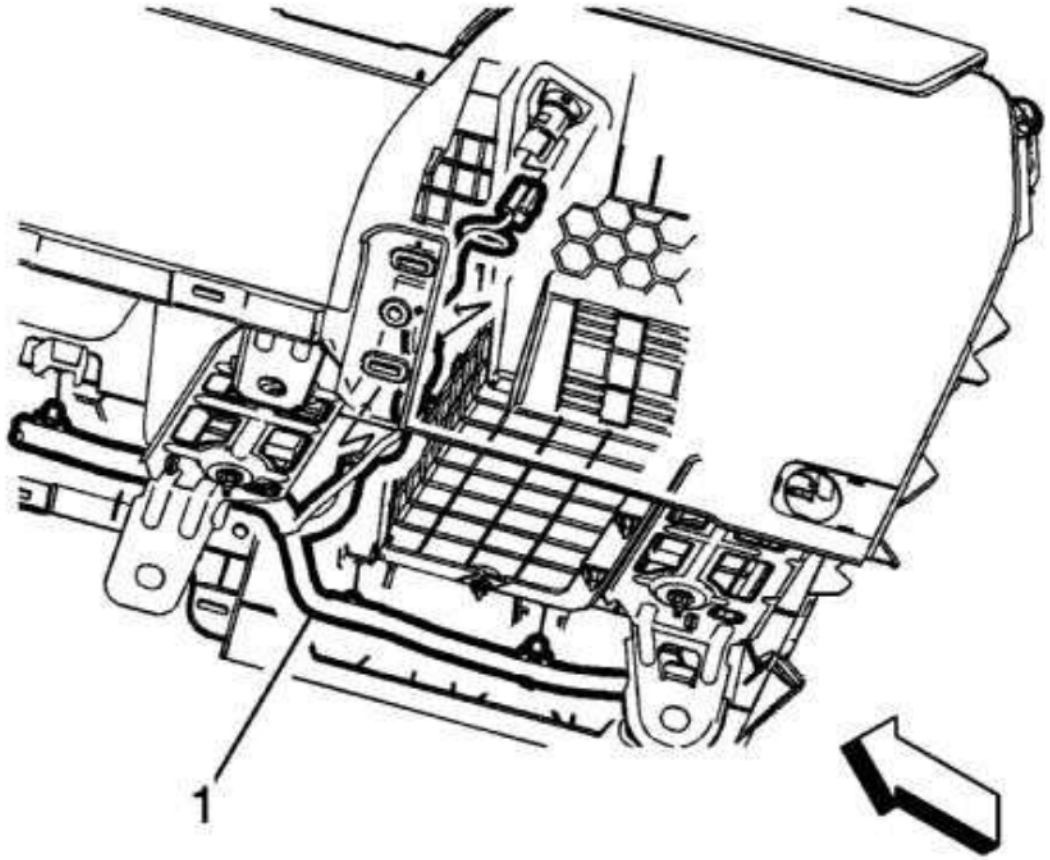


Fig. 151: Harness Retainers And Connectors
Courtesy of GENERAL MOTORS COMPANY

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

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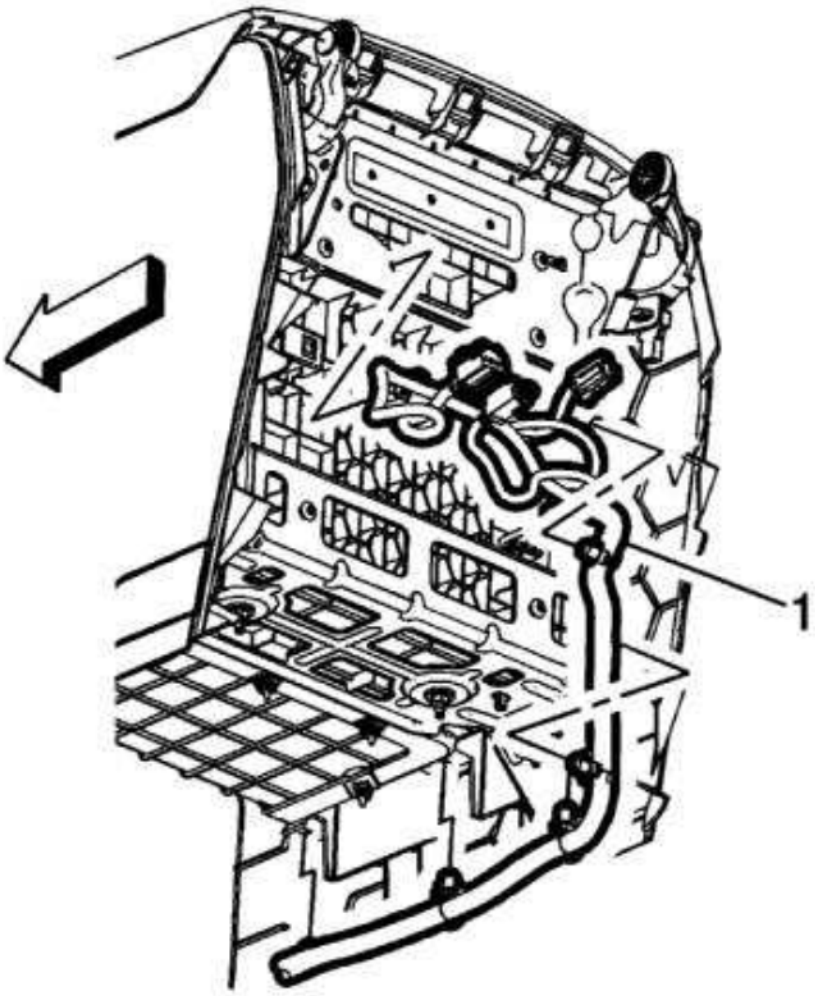


Fig. 152: Harness Retainers
Courtesy of GENERAL MOTORS COMPANY

4. Connect the harness retainers (1) securing the wiring harness to the front floor console assembly.
5. Install the front floor console rear trim panel. Refer to **Front Floor Console Rear Trim Panel Replacement (Cadillac)**.
6. Install the front floor console compartment. Refer to **Front Floor Console Compartment Replacement (Cadillac)**.
7. Install the front floor console. Refer to **Front Floor Console Replacement (Cadillac)**.

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FRONT FLOOR CONSOLE COMPARTMENT BEZEL REPLACEMENT (CHEVROLET / GMC)

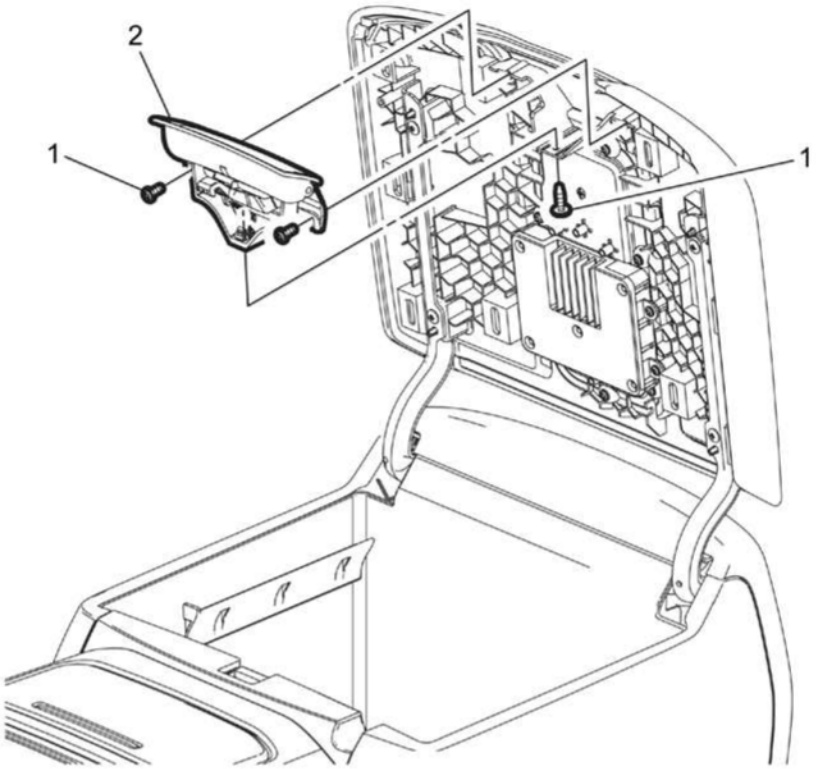


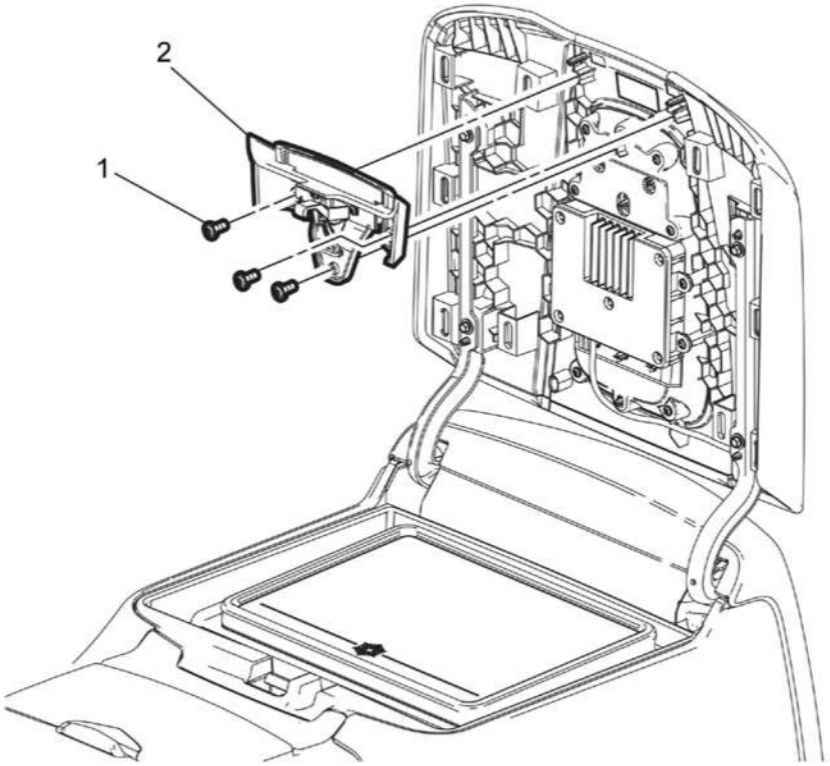
Fig. 153: Front Floor Console Compartment Bezel (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console armrest hinge cover. Refer to **Front Floor Console Armrest Hinge Cover Replacement**.	

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Callout	Component Name
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 Bezel

FRONT FLOOR CONSOLE COMPARTMENT BEZEL REPLACEMENT (CADILLAC)



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Fig. 154: Front Floor Console Compartment Bezel (Cadillac)
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 Bezel

FRONT FLOOR CONSOLE BOLT ACCESS HOLE COVER REPLACEMENT (CHEVROLET / GMC)

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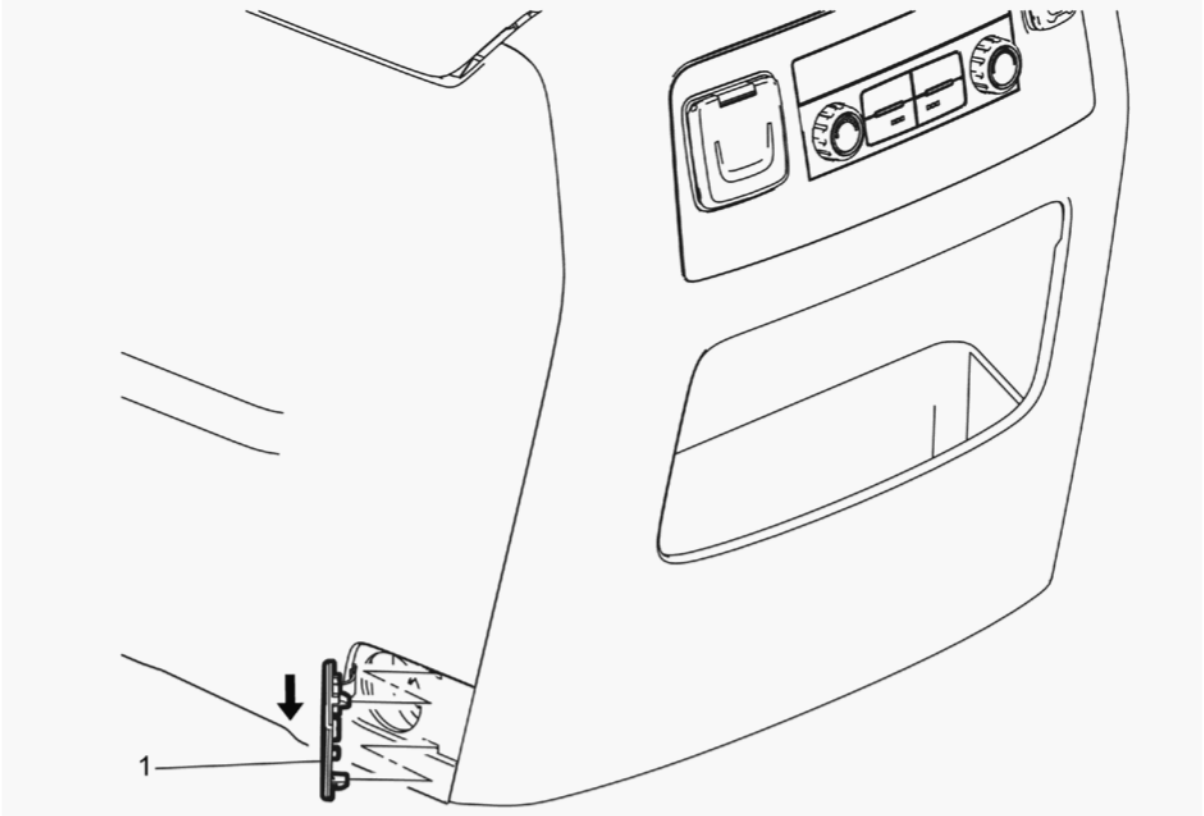


Fig. 155: Front Floor Console Bolt Access Hole Cover (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Bolt Access Hole Cover **Procedure** Use a suitable tool to release the cover from the front floor console assembly.

FRONT FLOOR CONSOLE FRONT COMPARTMENT COVER REPLACEMENT (CHEVROLET / GMC)

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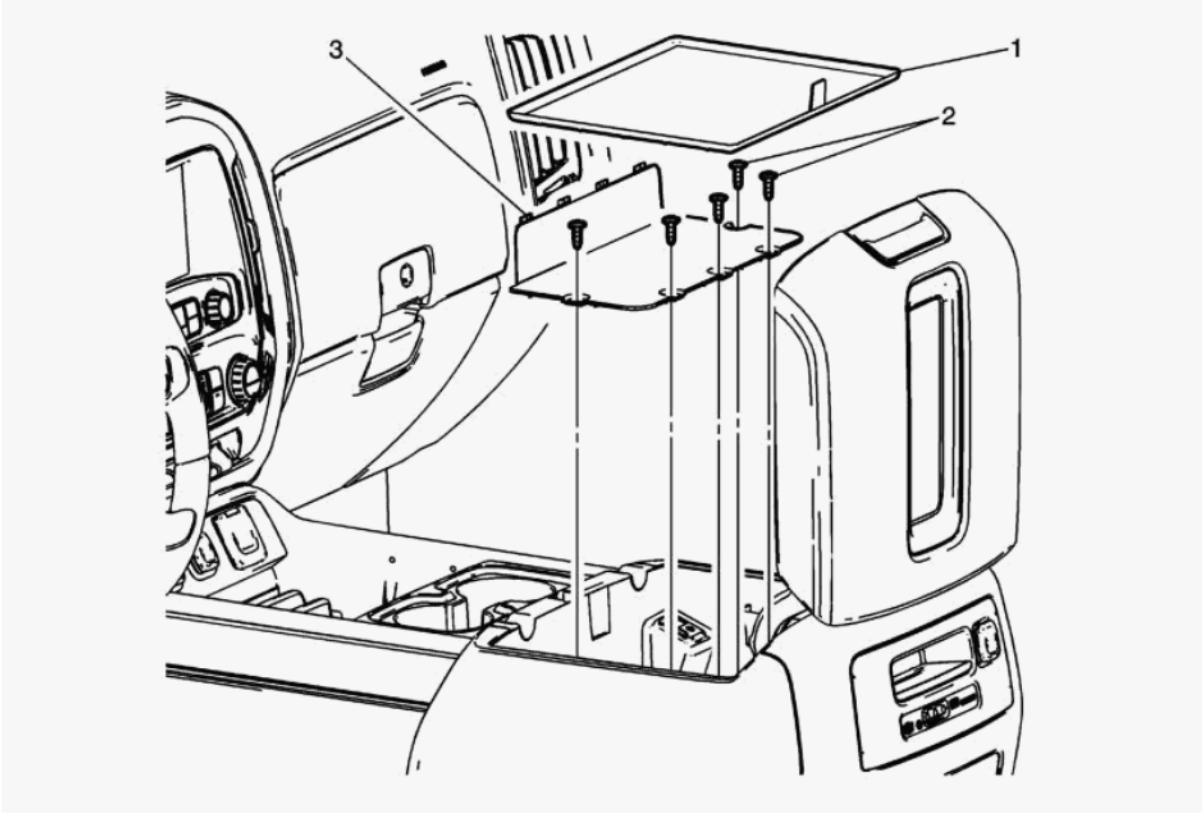


Fig. 156: Front Floor Console Front Compartment Cover
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Compartment Liner
2	Front Floor Console Front Compartment Cover Bolt (Qty: 5) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten**

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Callout	Component Name
	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 FRONT COMPARTMENT REPLACEMENT (CHEVROLET / GMC)

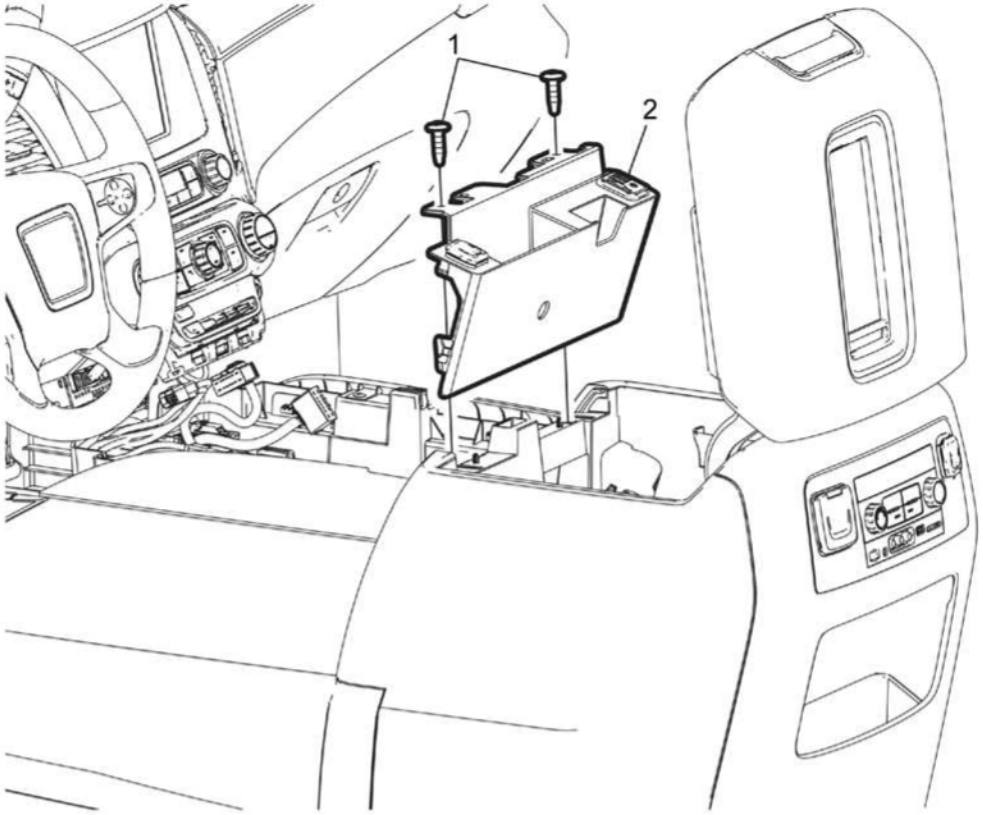


Fig. 157: Front Floor Console Front Compartment (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console trim plate. Refer to **Front Floor Console Trim Plate Replacement (Chevrolet / GMC)**.	

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Callout	Component Name
1	Front Floor Console Bolt (Qty: 2) **CAUTION:** **Refer to** **Fastener Caution .** **Tighten** 2.5 N.m (22 lb in)
2	Front Floor Console Front Compartment **Procedures** 1. Use a flat bladed plastic trim tool in order to release the tabs securing the sides of the compartment to the front floor console assembly. 2. Disconnect all electrical connectors. 3. Transfer components as necessary.

FRONT FLOOR CONSOLE FRONT COMPARTMENT REPLACEMENT (CADILLAC)

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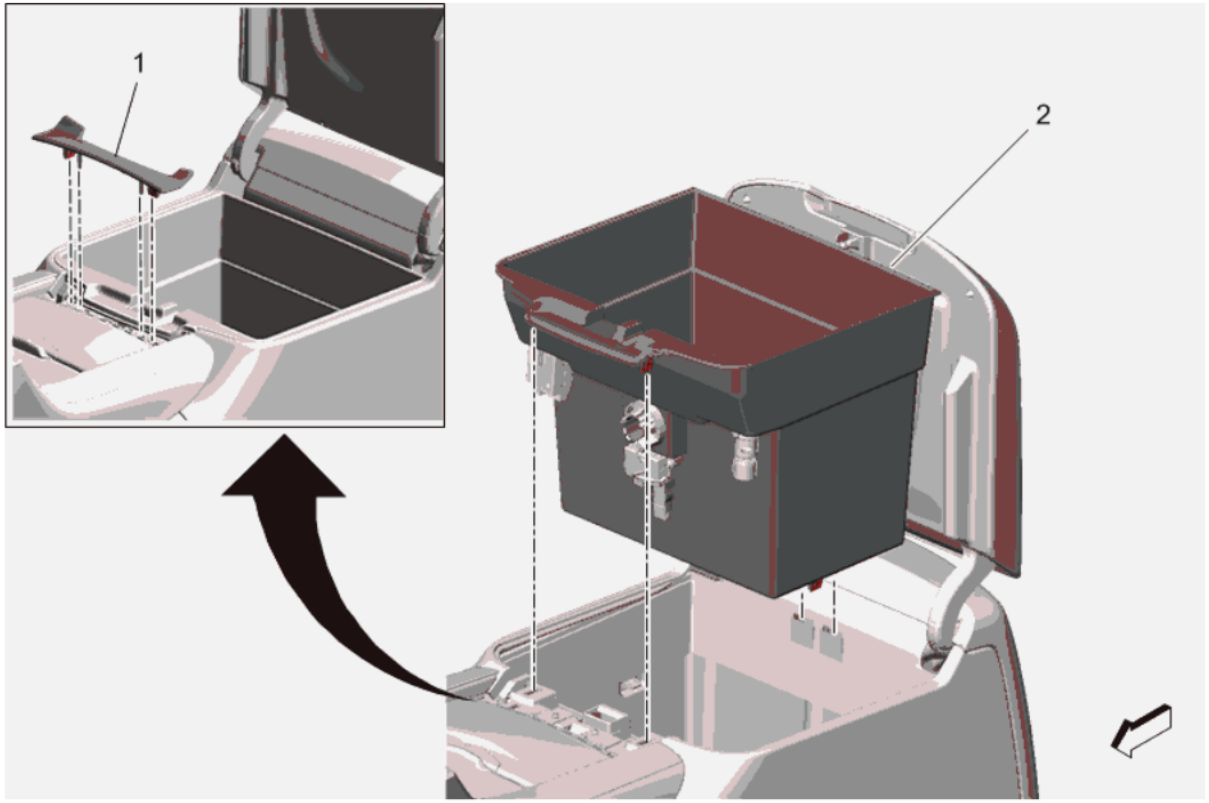


Fig. 158: Front Floor Console Front Compartment (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Applique **Procedure** Use a flat bladed plastic trim tool.
2	Front Floor Console Front Compartment **Procedure** 1. Use a flat bladed plastic trim tool. 2. Disconnect all electrical connectors. 3. Transfer components as necessary.

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FRONT FLOOR CONSOLE FRONT COMPARTMENT LINER REPLACEMENT (CHEVROLET / GMC)

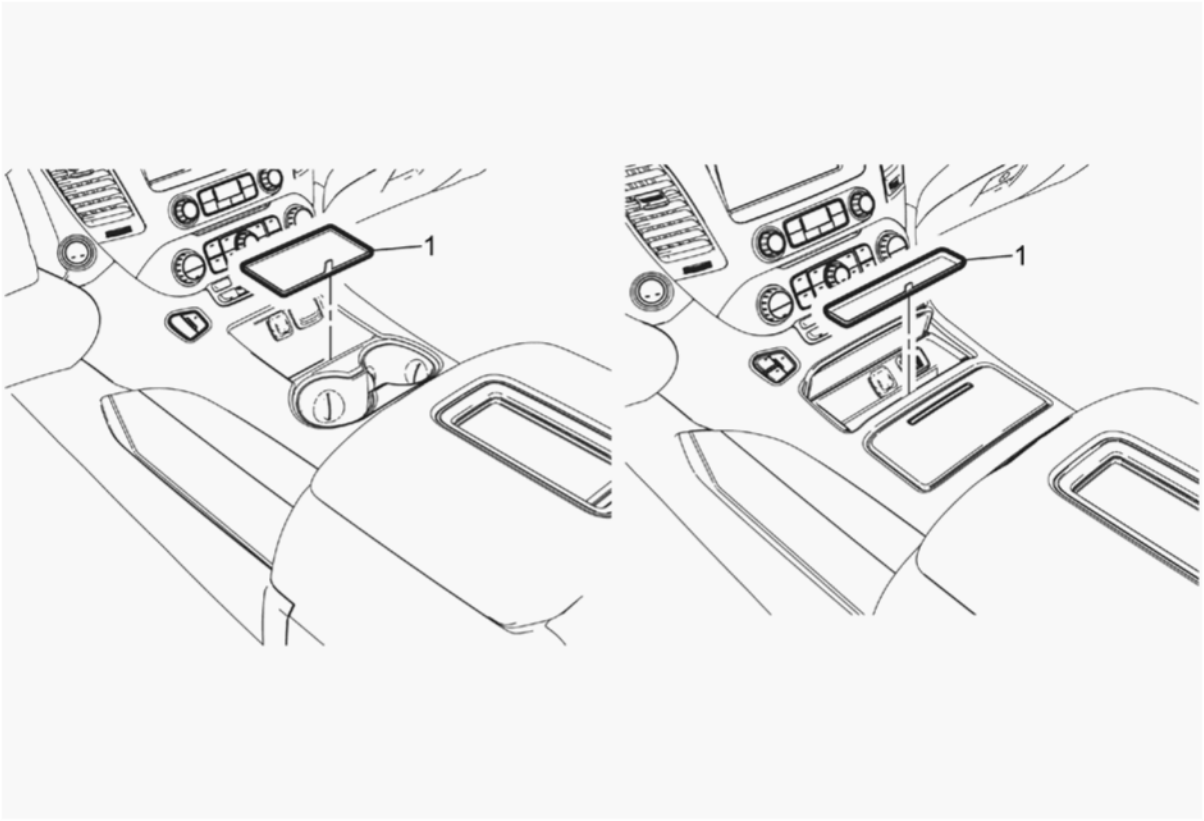


Fig. 159: Front Floor Console Front Compartment Liner (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Front Compartment Liner

FRONT FLOOR CONSOLE COMPARTMENT DOOR REPLACEMENT

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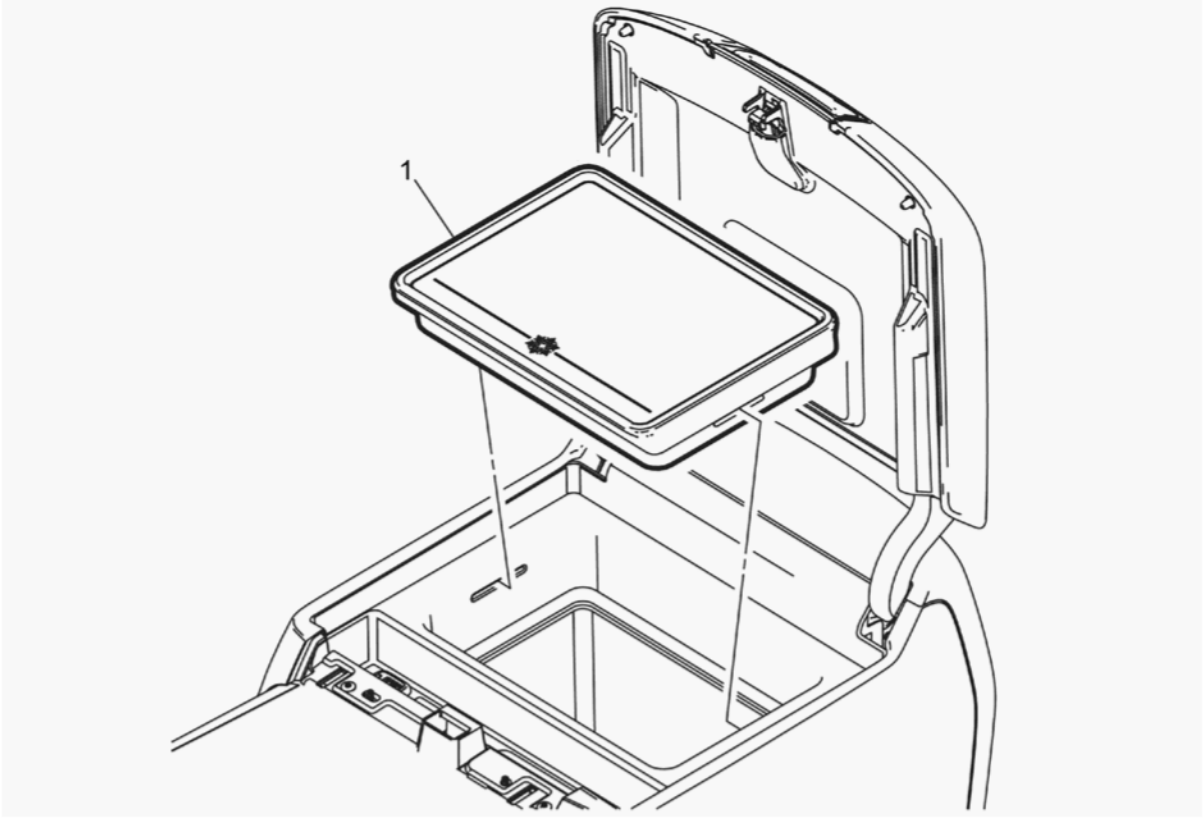


Fig. 160: Front Floor Console Compartment Door
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Compartment Door

FRONT FLOOR CONSOLE CUP HOLDER LINER REPLACEMENT (CHEVROLET / GMC)

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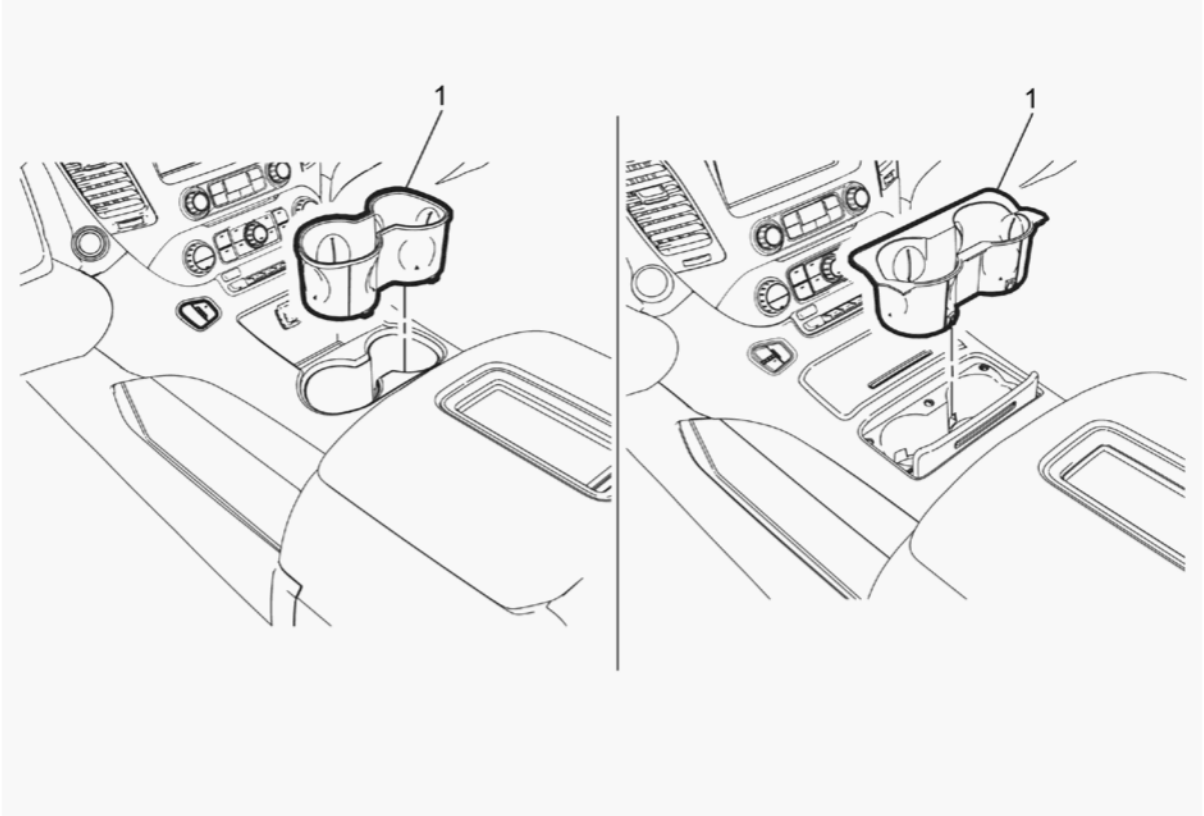


Fig. 161: Front Floor Console Cup Holder Liner (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Cup Holder Liner

FRONT FLOOR CONSOLE CUP HOLDER DOOR LATCH REPLACEMENT (CADILLAC)

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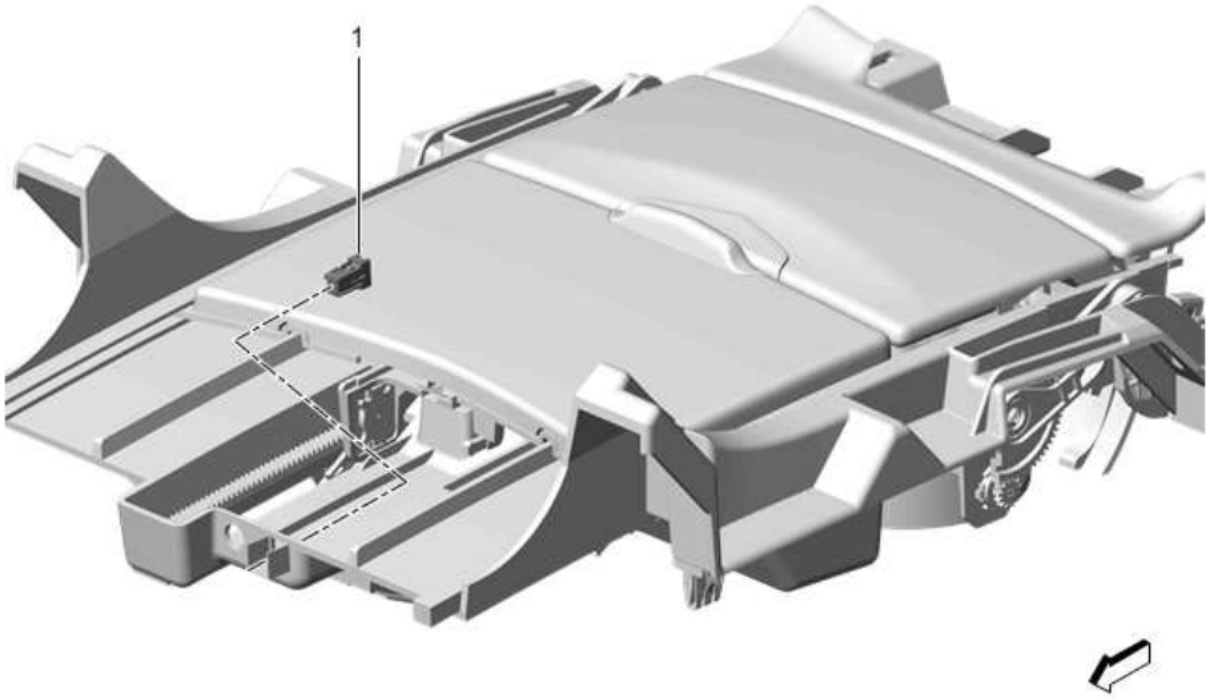


Fig. 162: Front Floor Console Cup Holder Door Latch (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure **Front Floor Console Compartment Replacement (Cadillac)**	
1	Front Floor Console Cup Holder Door Latch **Procedure** Use the appropriate tool to depress the tabs and release the latch from the compartment.

FRONT FLOOR CONSOLE REAR STOWAGE LINER REPLACEMENT (CHEVROLET / GMC)

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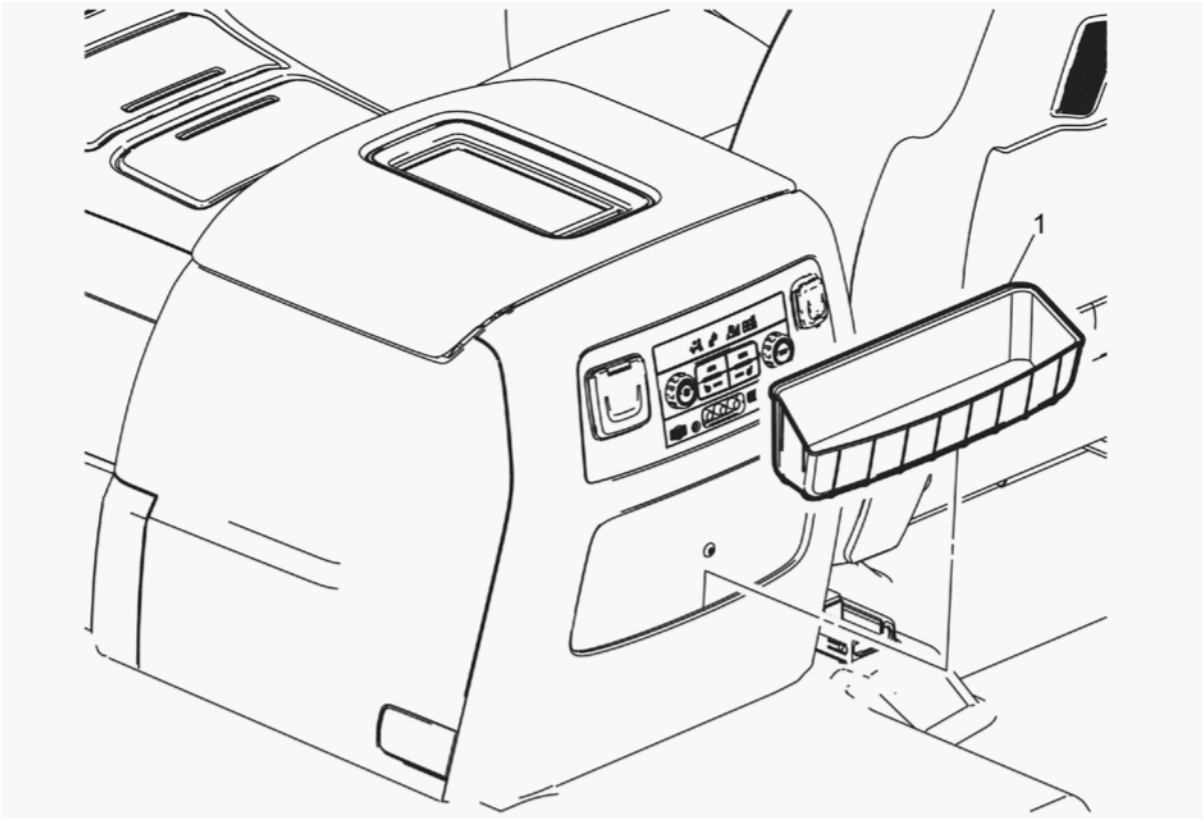


Fig. 163: Front Floor Console Rear Stowage Liner
Courtesy of GENERAL MOTORS COMPANY

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 COMPARTMENT REPLACEMENT (CADILLAC)

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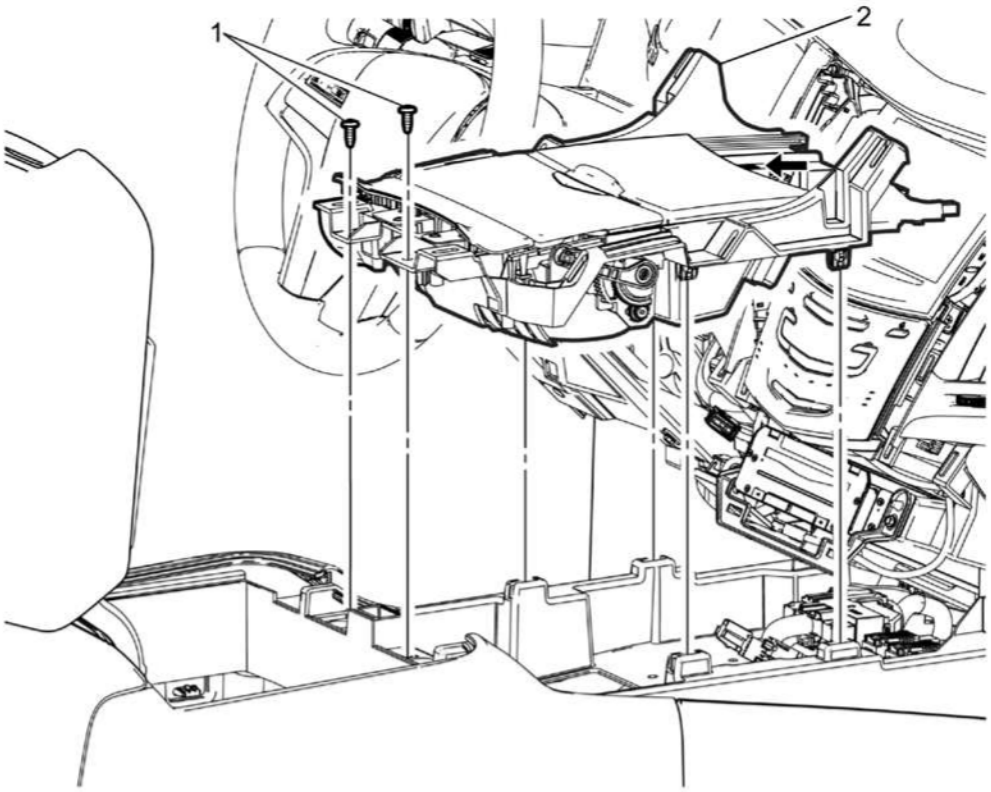


Fig. 164: Front Floor Console Compartment (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures	
1. Remove the instrument panel lower trim plate applique. Refer to **Instrument Panel Lower Trim Plate Applique Replacement (Cadillac)**. 2. Remove the front floor console front compartment, if equipped. Refer to **Front Floor Console Front Compartment Replacement (Cadillac)**. 3. Remove the front floor console center compartment, if equipped. Refer to **Front Floor Console Center Compartment Replacement (Cadillac)**.	

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Callout	Component Name
1	Front Floor Console Bolt (Qty: 2) **CAUTION:** **Refer to Fastener Caution .** **Tighten** 2.5 N.m (22 lb in)
2	Front Floor Console Compartment **Procedure** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the compartment to the front floor console assembly. 2. Disconnect all electrical connectors. 3. Transfer components as necessary. **NOTE:** **Make certain the inertia latch is in the down position.** 4.

FRONT FLOOR CONSOLE COMPARTMENT LINER REPLACEMENT (CHEVROLET / GMC)

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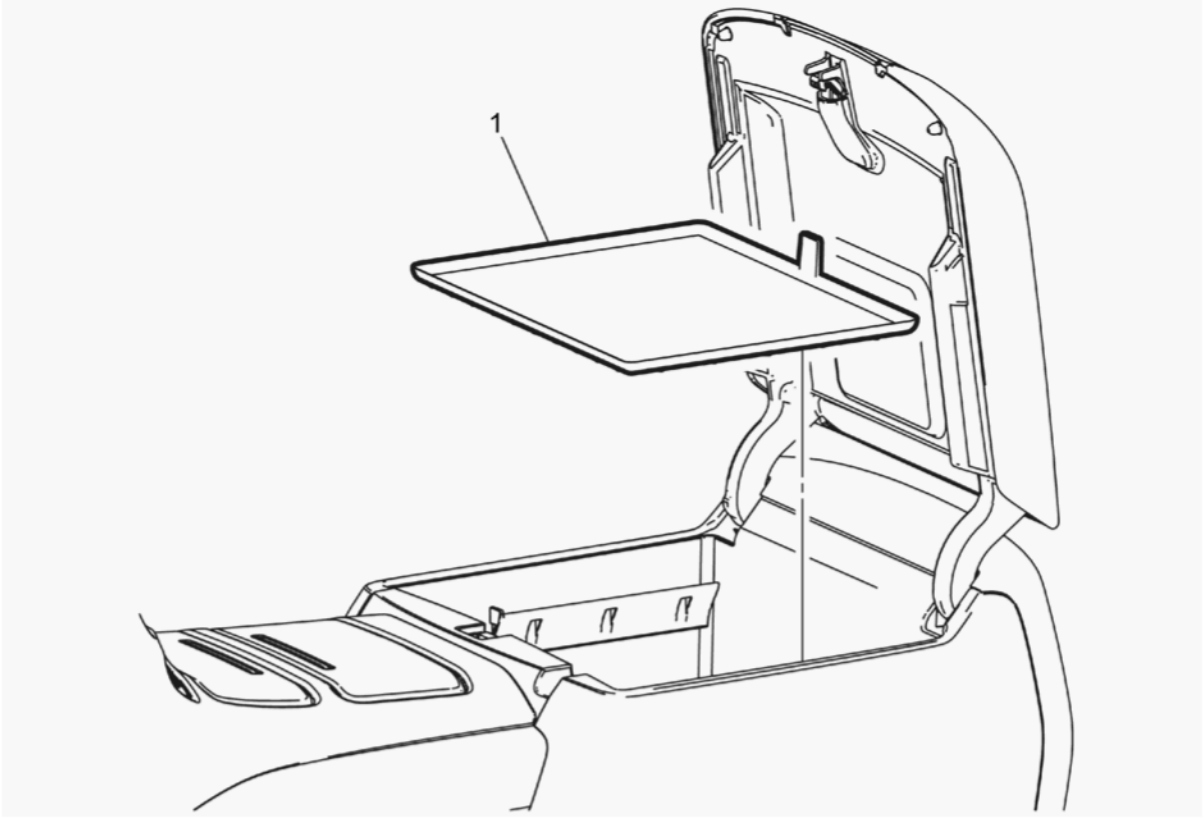


Fig. 165: Front Floor Console Compartment Liner (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Compartment Liner

FRONT FLOOR CONSOLE CENTER COMPARTMENT REPLACEMENT (INSERT)

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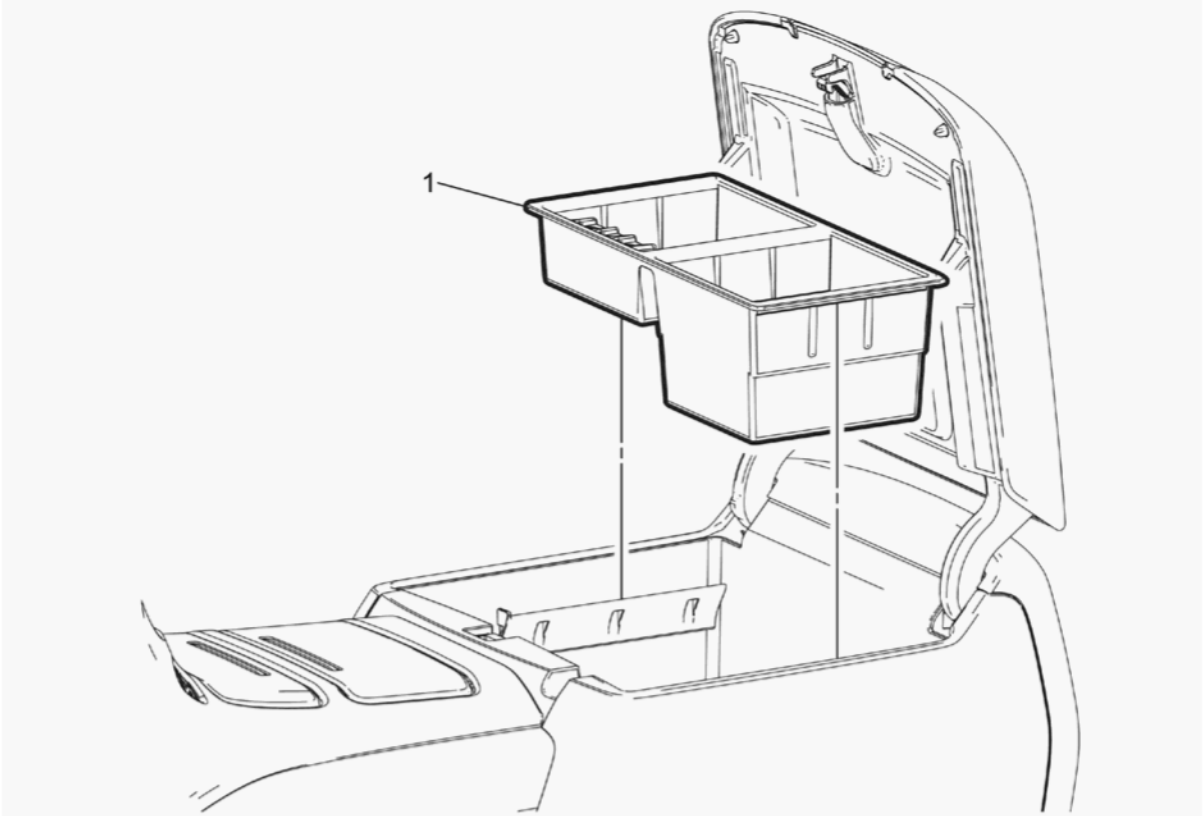


Fig. 166: Front Floor Console Center Compartment (Insert)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Center Compartment

FRONT FLOOR CONSOLE CENTER COMPARTMENT REPLACEMENT (CHEVROLET / GMC)

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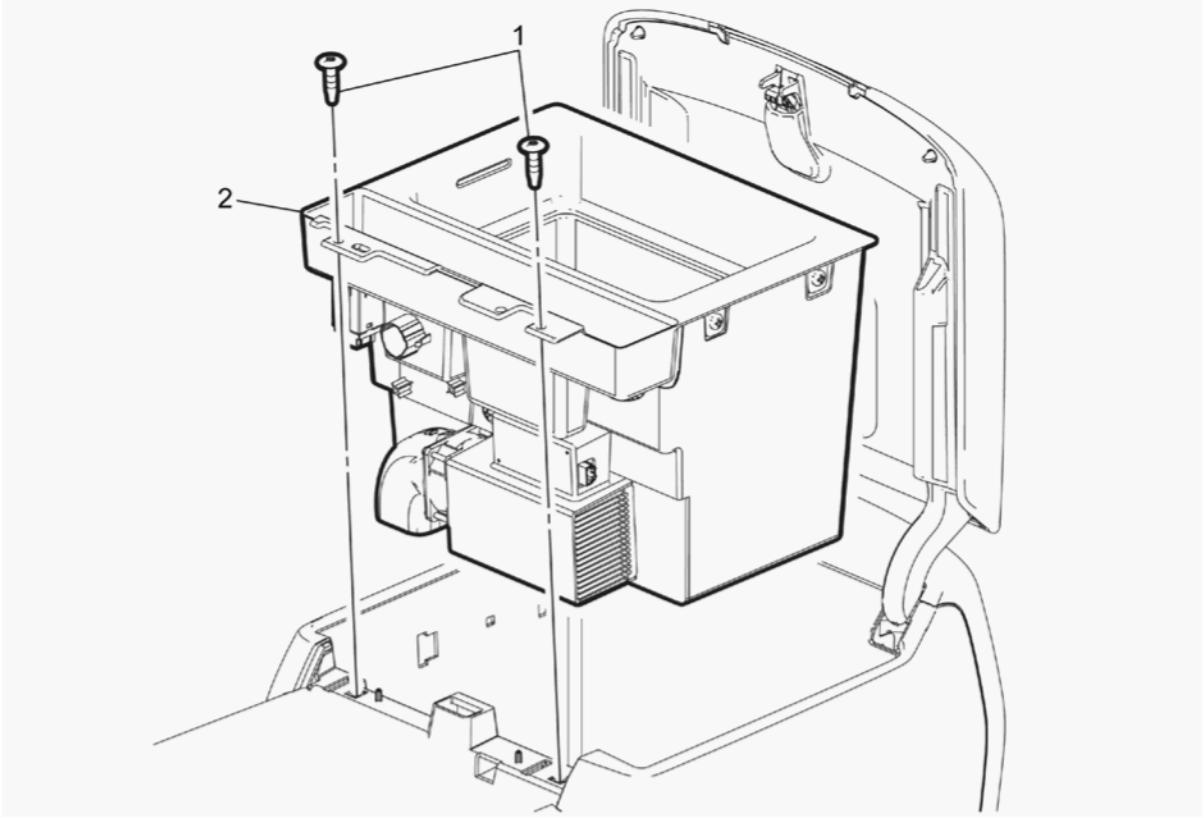


Fig. 167: Front Floor Console Center Compartment (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console trim plate. Refer to **Front Floor Console Trim Plate Replacement (Chevrolet / GMC)**.	
1	Front Floor Console Bolt (Qty: 2) **CAUTION:** **Refer to** **Fastener** **Caution** .

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Callout	Component Name
	Tighten 2.5 N.m (22 lb in)
2	Front Floor Console Center Compartment **Procedures** 1. Disconnect all electrical connectors. 2. Transfer components as necessary.

FRONT FLOOR CONSOLE CENTER COMPARTMENT REPLACEMENT (CADILLAC)

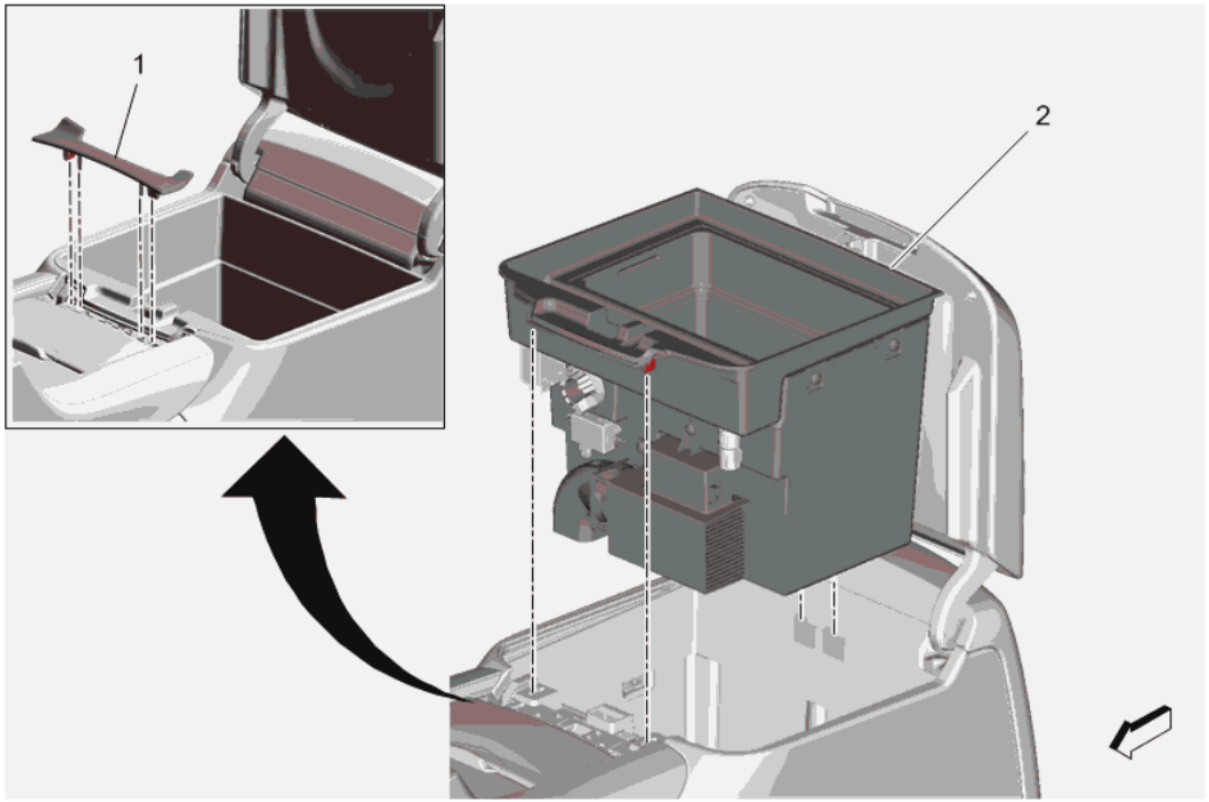
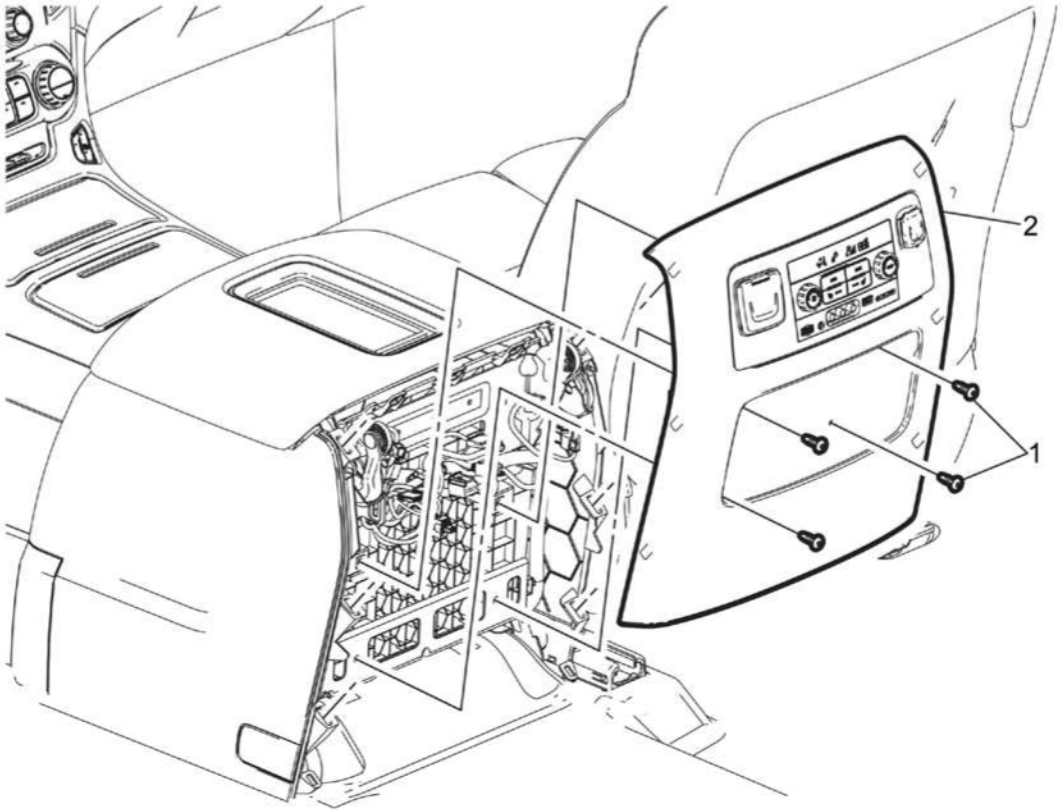


Fig. 168: Front Floor Console Center Compartment (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

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Callout	Component Name
1	Front Floor Console Applique **Procedure** Use a flat bladed plastic trim tool.
2	Front Floor Console Center Compartment **Procedure** 1. Use a flat bladed plastic trim tool. 2. Disconnect all electrical connectors. 3. Transfer components as necessary.

FRONT FLOOR CONSOLE REAR TRIM PANEL REPLACEMENT (CHEVROLET / GMC)



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Fig. 169: 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 (Chevrolet / GMC)**.	
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.

FRONT FLOOR CONSOLE REAR TRIM PANEL REPLACEMENT (CADILLAC)

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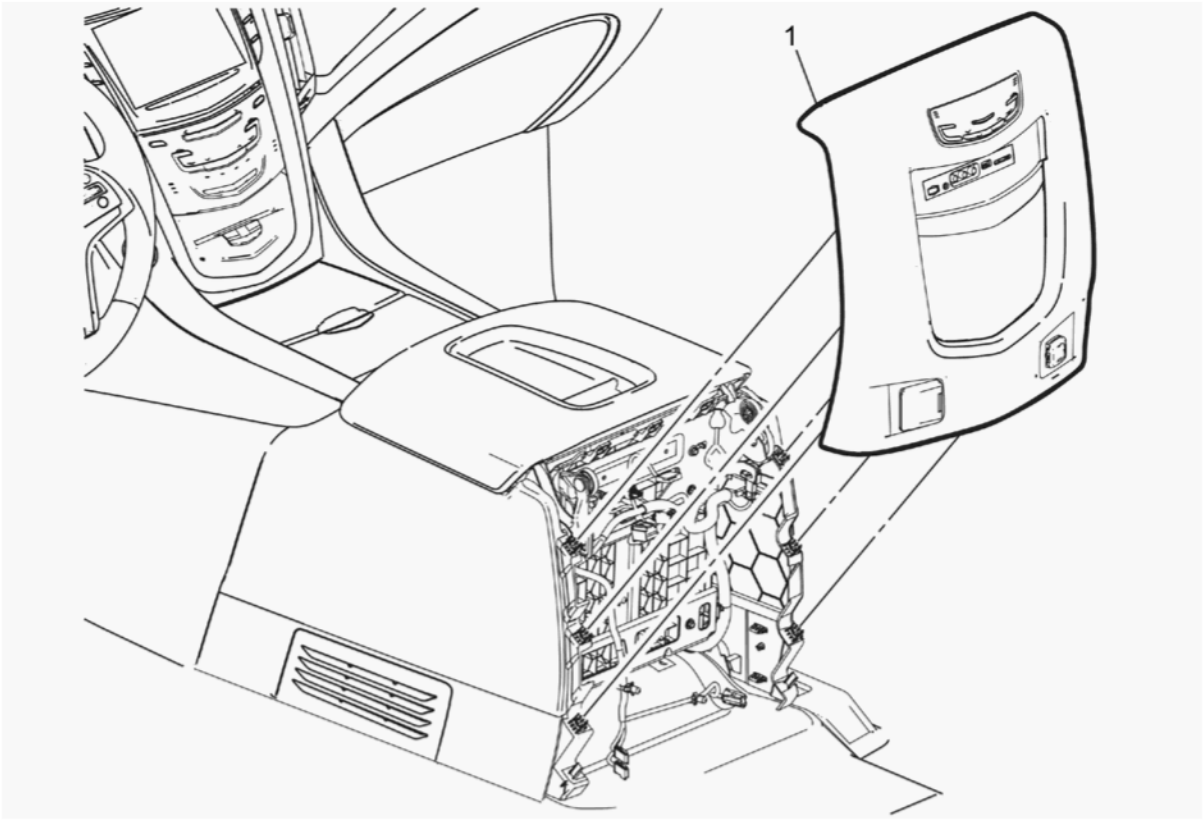


Fig. 170: Front Floor Console Rear Trim Panel (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	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. Disconnect the electrical connection. 3. When replacing the trim panel, transfer all necessary components.

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FRONT FLOOR CONSOLE REAR TRIM PANEL REPLACEMENT (STORAGE STRUCTURE)

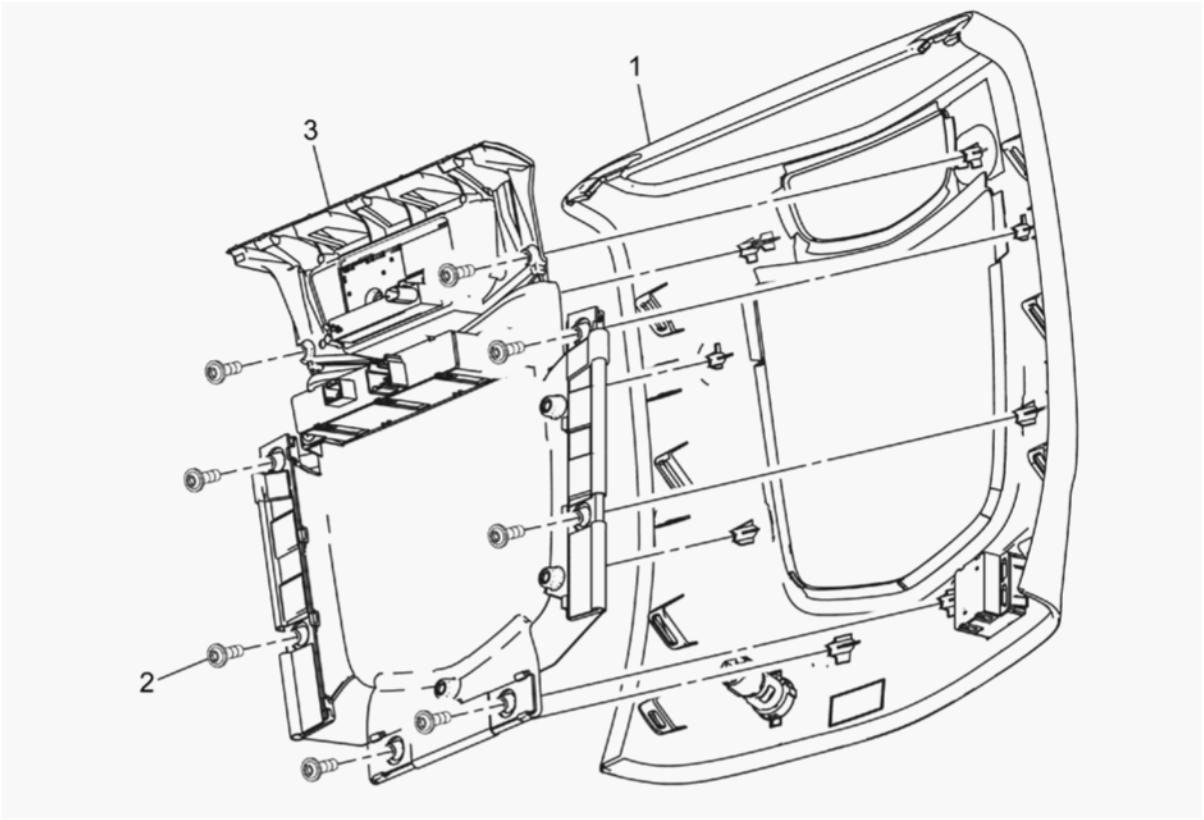


Fig. 171: Front Floor Console Rear Trim Panel (Storage Structure)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Rear Trim Panel - End Cap Refer to **Front Floor Console Rear Trim Panel Replacement (Storage Structure)**.

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Callout	Component Name
2	Front Floor Console Rear Compartment Bolt (Qty: 8) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
3	Front Floor Console Rear Trim Panel - Storage Structure **Procedure** Transfer components as necessary.

FRONT FLOOR CONSOLE SIDE TRIM PANEL REPLACEMENT - RIGHT SIDE (CADILLAC)

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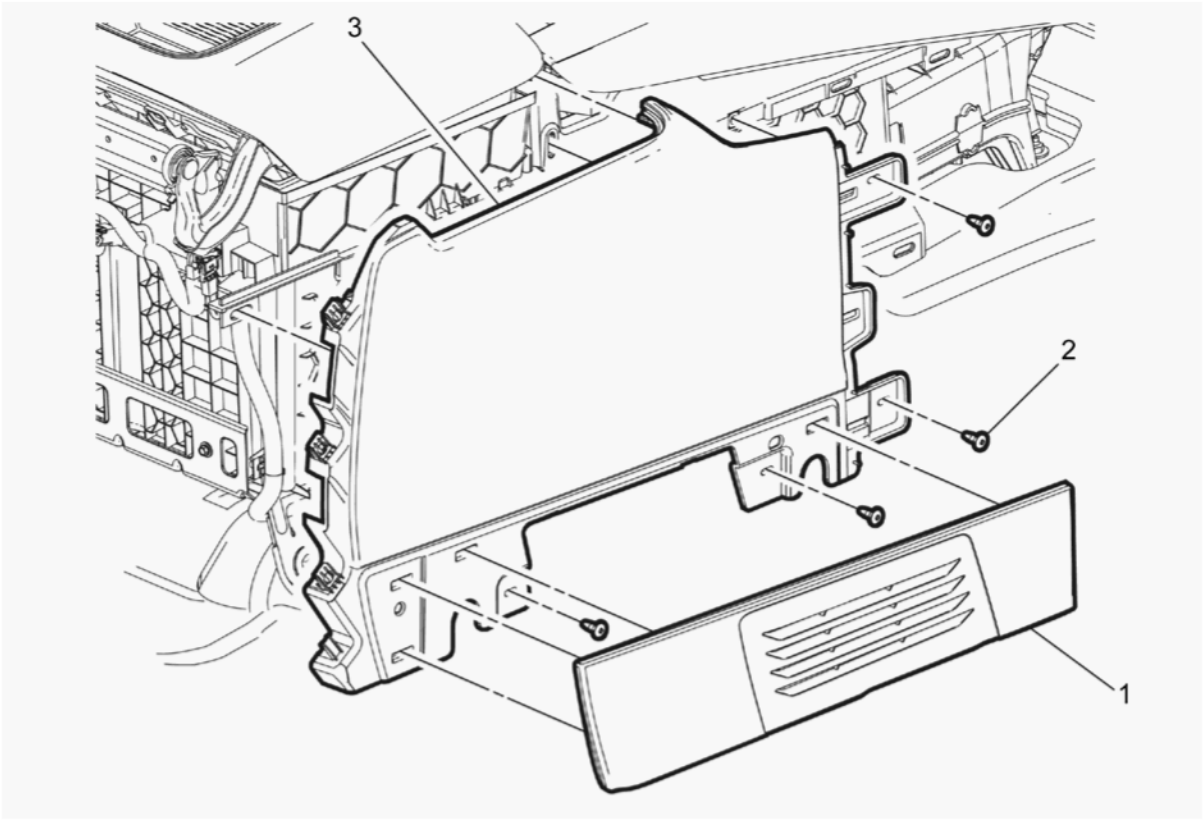


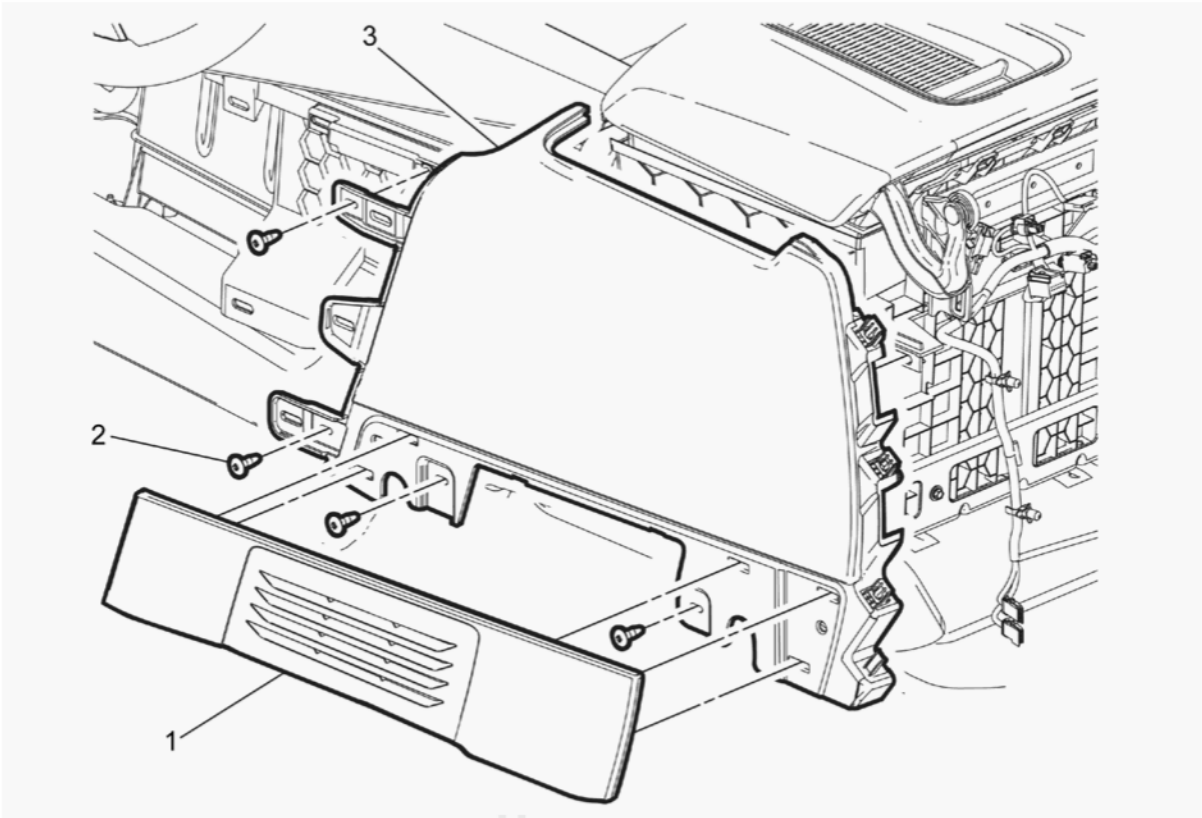
Fig. 172: Front Floor Console Side Trim Panel - Right Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. **Driver or Passenger Seat Removal and Installation** 2. **Front Floor Console Applique Replacement - Right Side (Cadillac)** 3. **Front Floor Console Rear Trim Panel Replacement (Cadillac)**. 4. **Front Floor Console Extension Panel Replacement - Right Side (Cadillac)**.	
1	Front Floor Console Side Trim Panel Vent **Procedure** Use a flat bladed plastic trim tool.

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Callout	Component Name
2	Front Floor Console Side Trim Panel Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener Caution** . **Tighten** 2.5 N.m (22 lb in)
3	Front Floor Console Side Trim Panel - Right Side

FRONT FLOOR CONSOLE SIDE TRIM PANEL REPLACEMENT - LEFT SIDE (CADILLAC)



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Fig. 173: Front Floor Console Side Trim Panel - Left Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. **Driver or Passenger Seat Removal and Installation** 2. **Front Floor Console Applique Replacement - Left Side (Cadillac)** 3. **Front Floor Console Rear Trim Panel Replacement (Cadillac)**. 4. **Front Floor Console Extension Panel Replacement - Left Side (Cadillac)**.	
1	Front Floor Console Side Trim Panel Vent **Procedure** Use a flat bladed plastic trim tool.
2	Front Floor Console Side Trim Panel Bolt (Qty: 4) **CAUTION:** **Refer to Fastener Caution .** **Tighten** 2.5 N.m (22 lb in)
3	Front Floor Console Side Trim Panel - Left Side

FRONT FLOOR CONSOLE EXTENSION PANEL REPLACEMENT - RIGHT SIDE (CHEVROLET / GMC)

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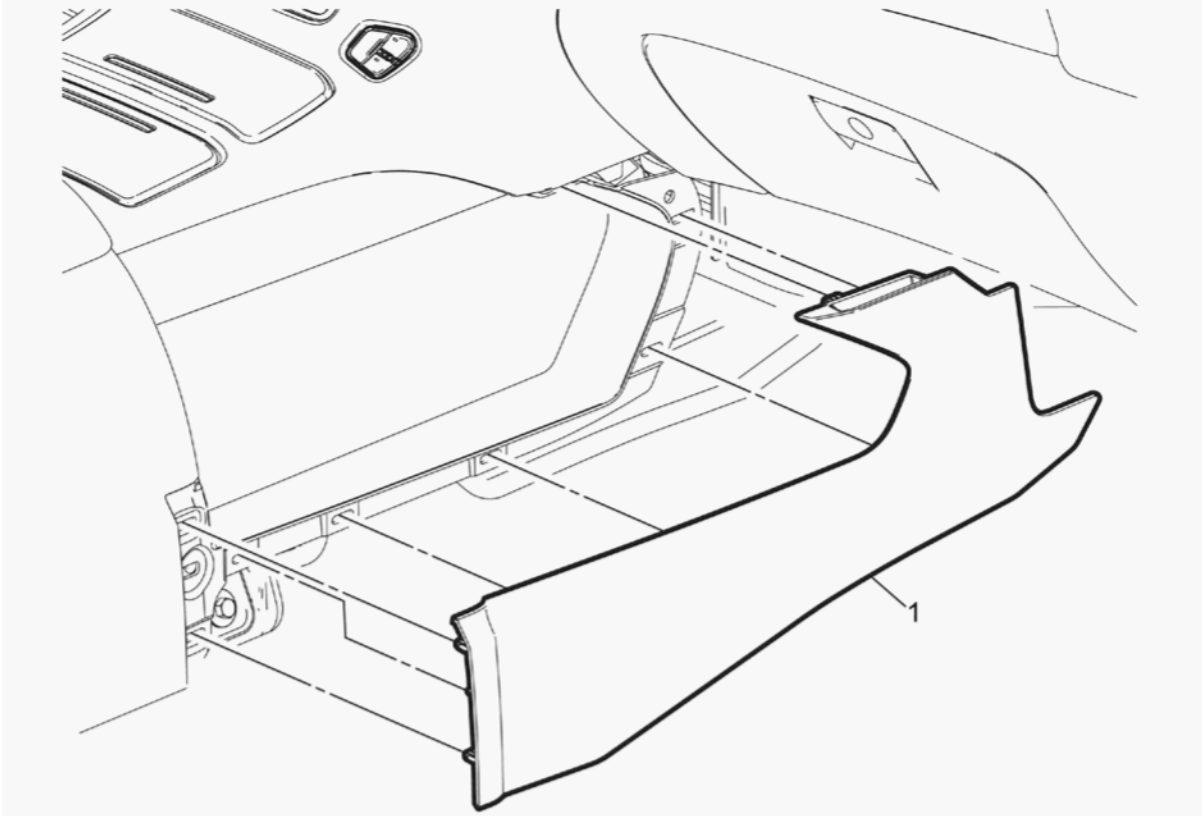


Fig. 174: Front Floor Console Extension Panel - Right Side (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Extension Panel - Right Side **Procedures** 1. Move the front seat forward 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 - RIGHT SIDE (CADILLAC)

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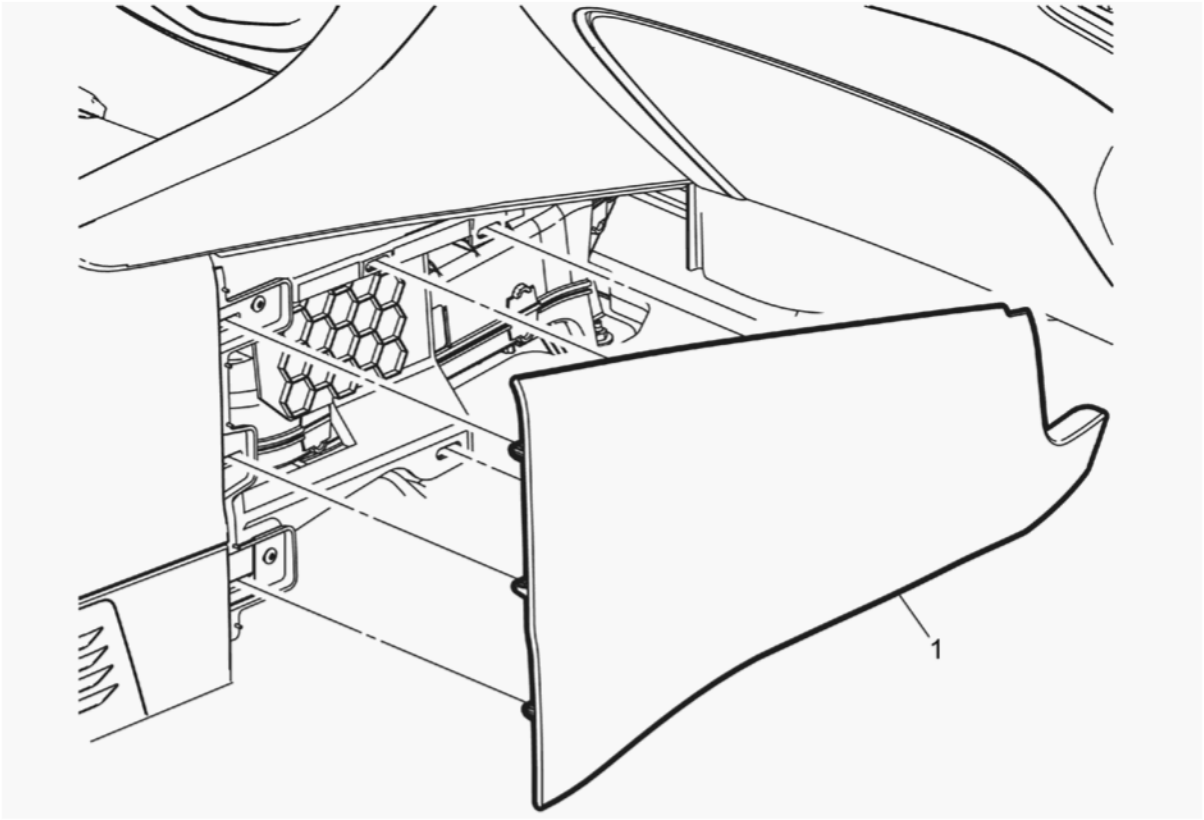


Fig. 175: Front Floor Console Extension Panel - Right Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Floor Console Extension Panel - Right **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 (CHEVROLET / GMC)

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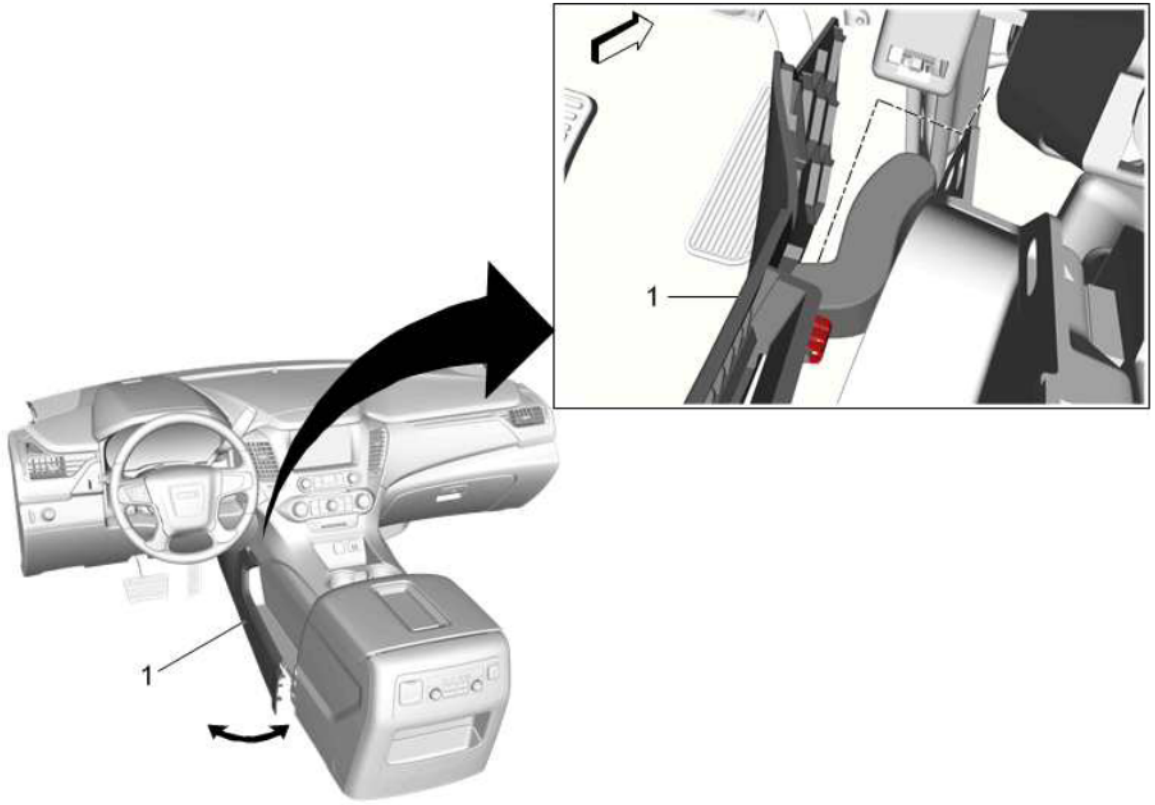


Fig. 176: Front Floor Console Extension Panel - Left Side (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

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.

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Callout	Component Name
	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 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 EXTENSION PANEL REPLACEMENT - LEFT SIDE (CADILLAC)

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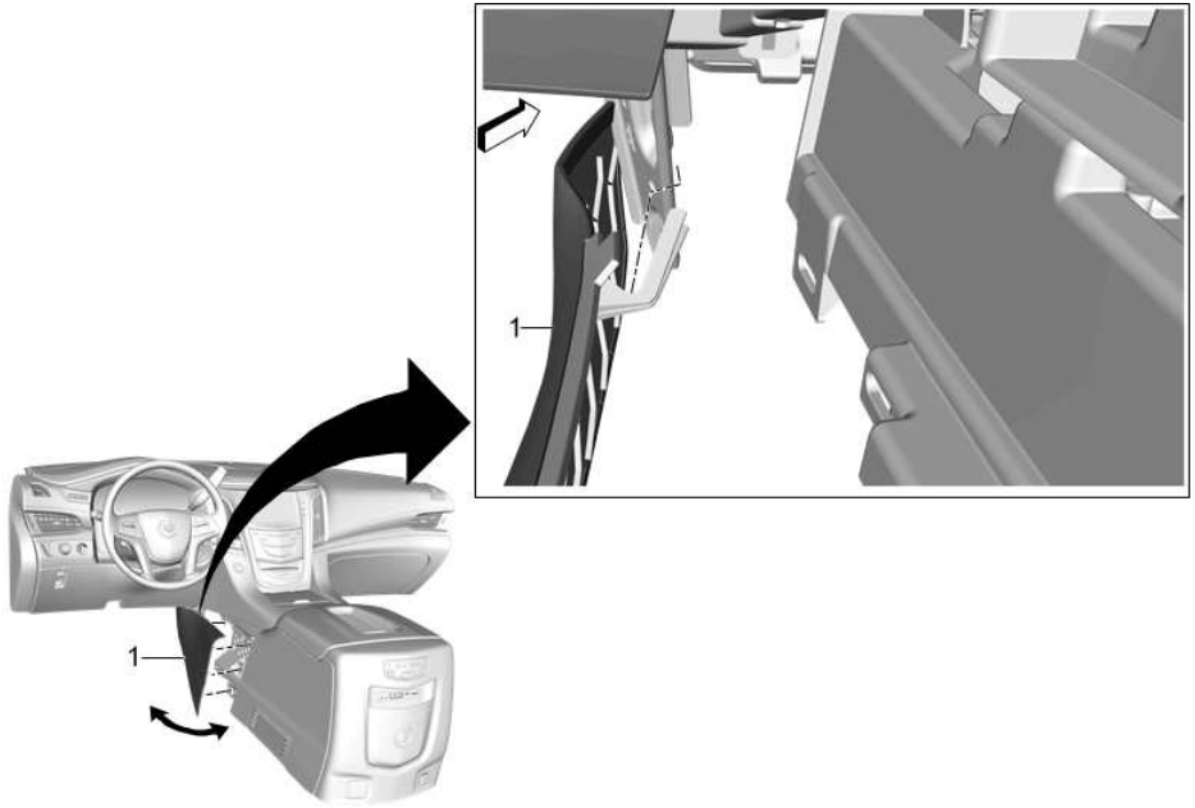


Fig. 177: Front Floor Console Extension Panel - Left Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

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.

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Callout	Component Name
	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 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 REPLACEMENT (CHEVROLET / GMC)

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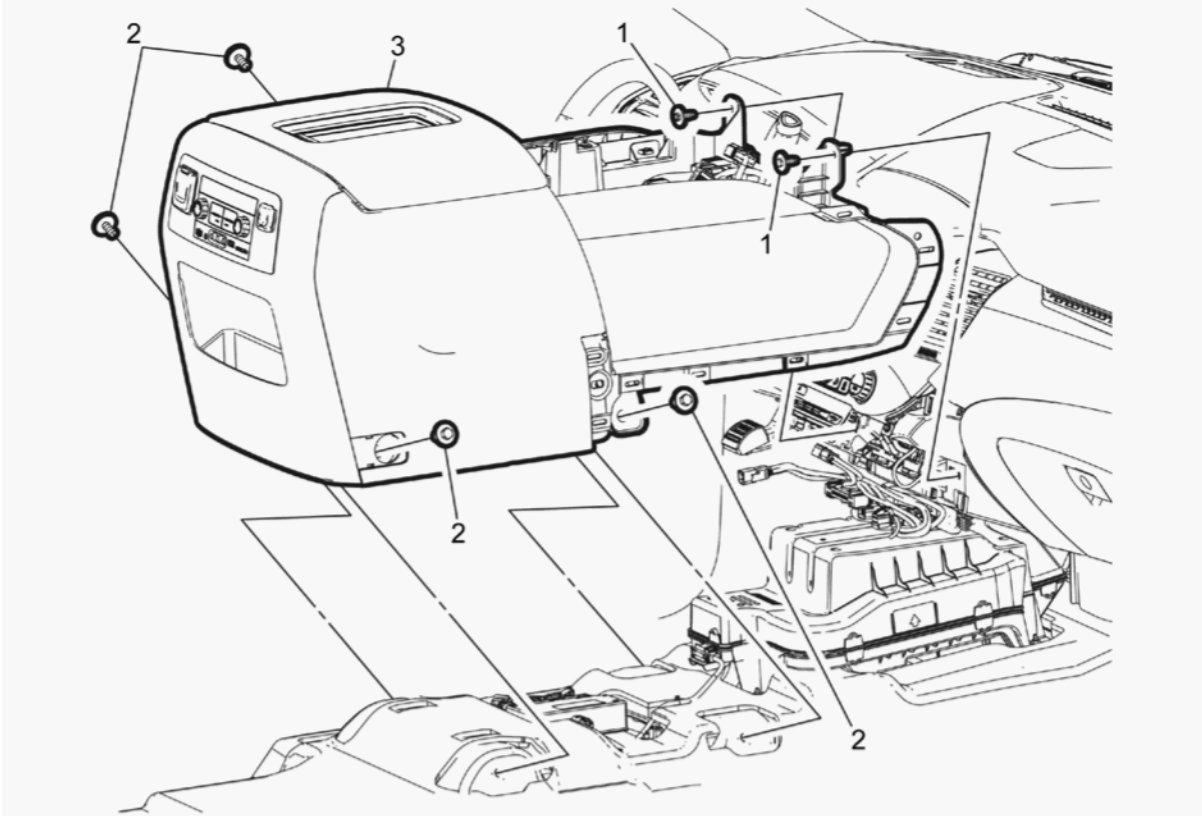


Fig. 178: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Remove the front floor console trim plate. Refer to **Front Floor Console Trim Plate Replacement (Chevrolet / GMC)**. 2. Remove the left front floor console extension panel. Refer to **Front Floor Console Extension Panel Replacement - Left Side (Chevrolet / GMC)**. 3. Remove the right front floor console extension panel. Refer to **Front Floor Console Extension Panel Replacement - Right Side (Chevrolet / GMC)**.	
1	Front Floor Console Bolt @Instrument Panel (Qty: 2)

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Callout	Component Name
	CAUTION: **Refer to** Fastener Tightening Caution . 9 N.m (80 lb in)
2	Front Floor Console Bolt @Floor Tunnel (Qty: 4) **Procedure** Pull back the carpet and open the bolt access hole covers 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 components as necessary.

FRONT FLOOR CONSOLE REPLACEMENT (CADILLAC)

Removal Procedure

1. Remove the seat mounting bolts from both seats and reposition the seats for access. Refer to **Driver or Passenger Seat Removal and Installation** .
2. Remove the left front floor console extension panel. Refer to **Front Floor Console Extension Panel Replacement - Left Side (Cadillac)**.
3. Remove the right front floor console extension panel. Refer to **Front Floor Console Extension Panel Replacement - Right Side (Cadillac)**.
4. Remove the instrument panel lower trim plate applique. Refer to **Instrument Panel Lower Trim Plate Applique Replacement (Cadillac)**.

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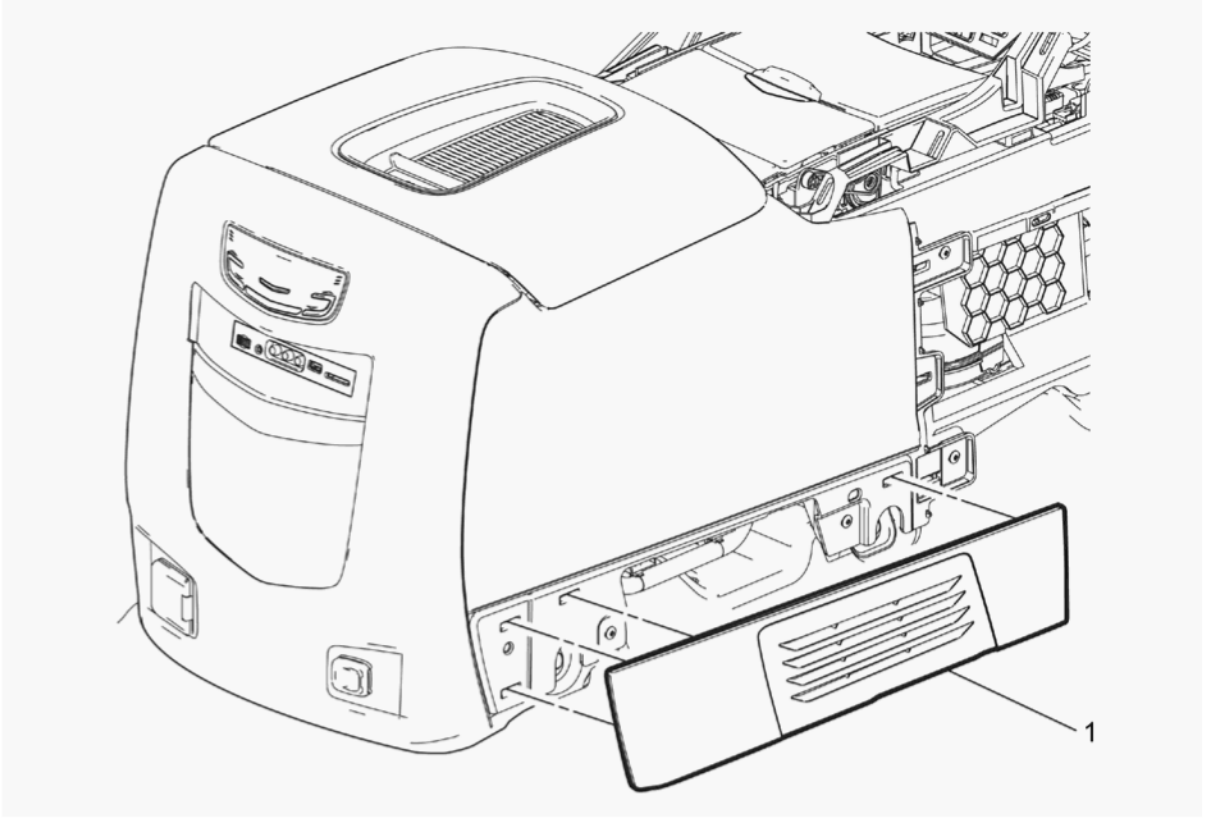


Fig. 179: Left And Right Front Floor Console Side Trim Panel
Courtesy of GENERAL MOTORS COMPANY

5. Use a flat bladed plastic trim tool to release the left and right front floor console side trim panel (1) from the front floor console assembly.

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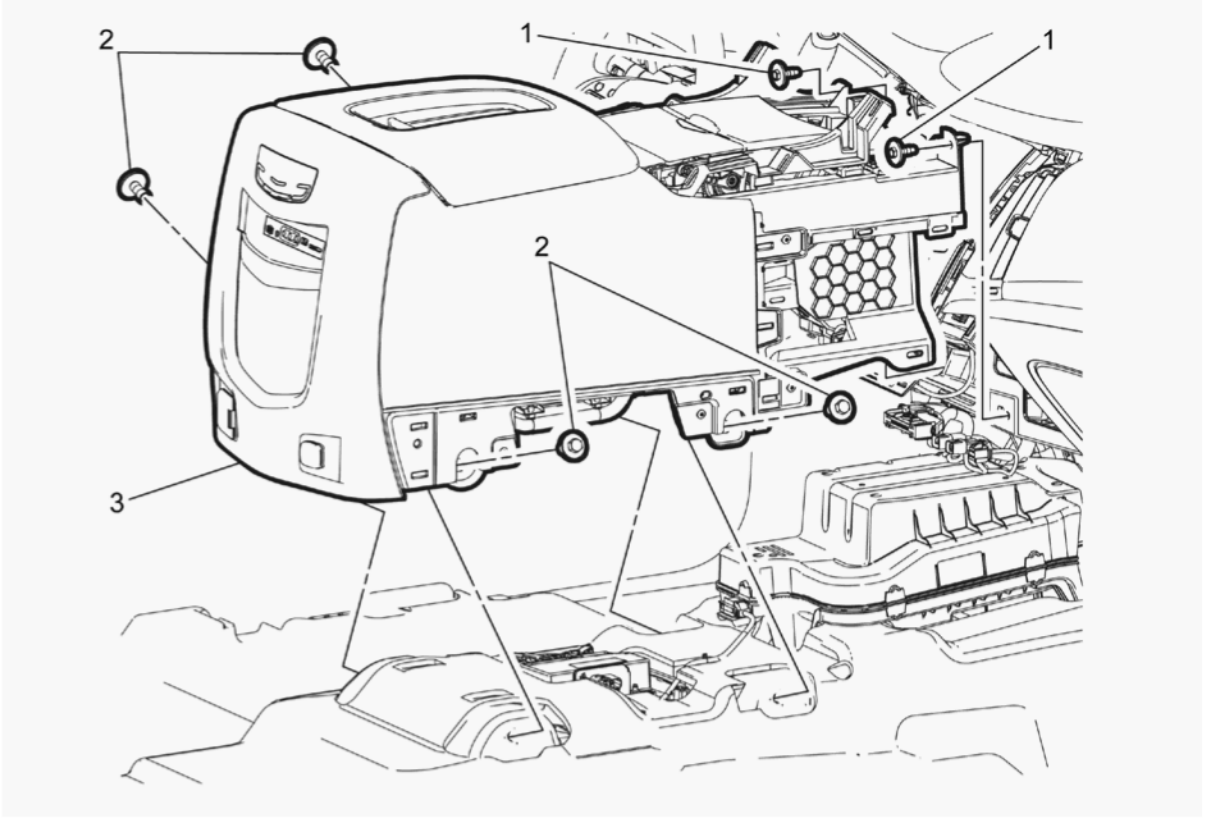


Fig. 180: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

6. Remove the front floor console bolts (1) and (2).
7. Disconnect all electrical connectors.
8. With the aid of an assistant lift the floor console (3) rearward and upward away from the instrument panel assembly.
9. Transfer components as necessary.

Installation Procedure

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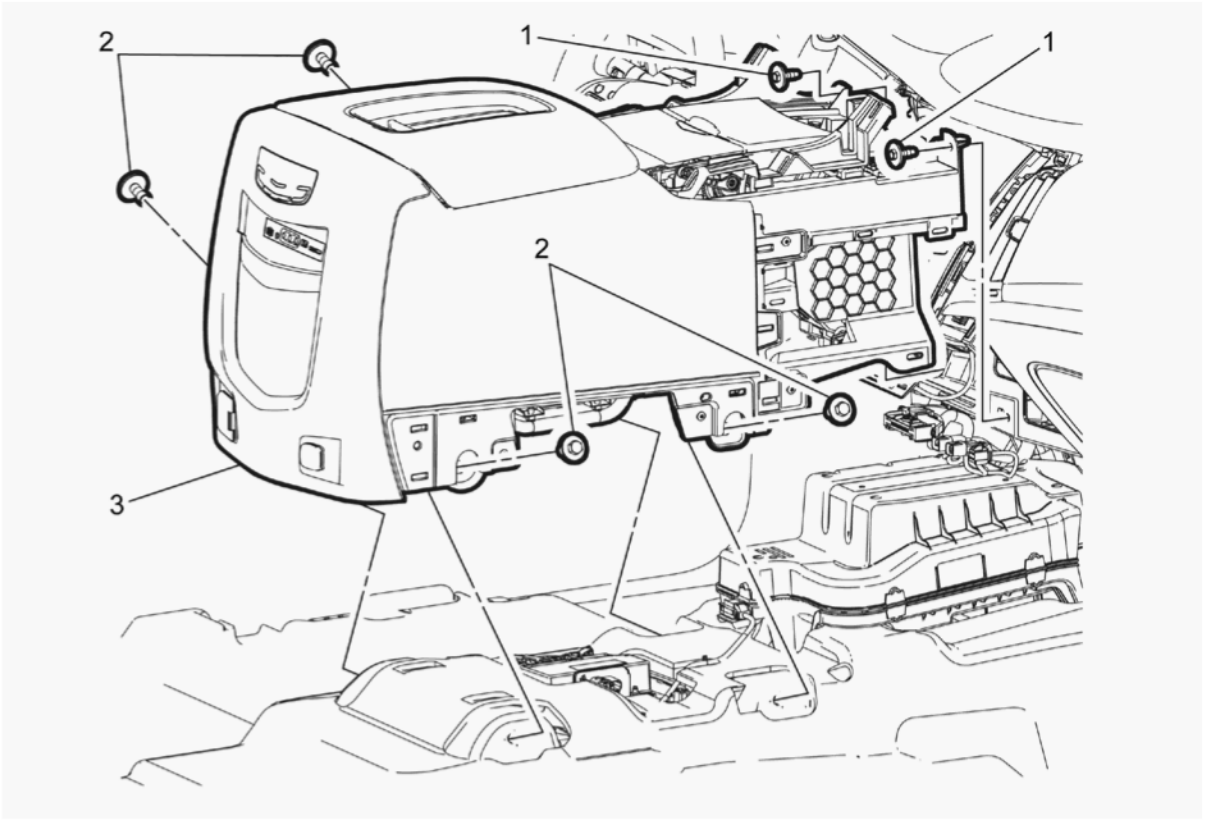


Fig. 181: Front Floor Console
Courtesy of GENERAL MOTORS COMPANY

CAUTION: Refer to Fastener Caution .

1. With the aid of an assistant return the front floor console (3) to the vehicle.
2. Connect all electrical connectors.
3. Install the front floor console bolts @Instrument Panel (1) and tighten to 9 N.m (80 lb in).
4. Install the front floor console bolts @Floor Tunnel (2) and tighten to 45 N.m (33 lb ft).

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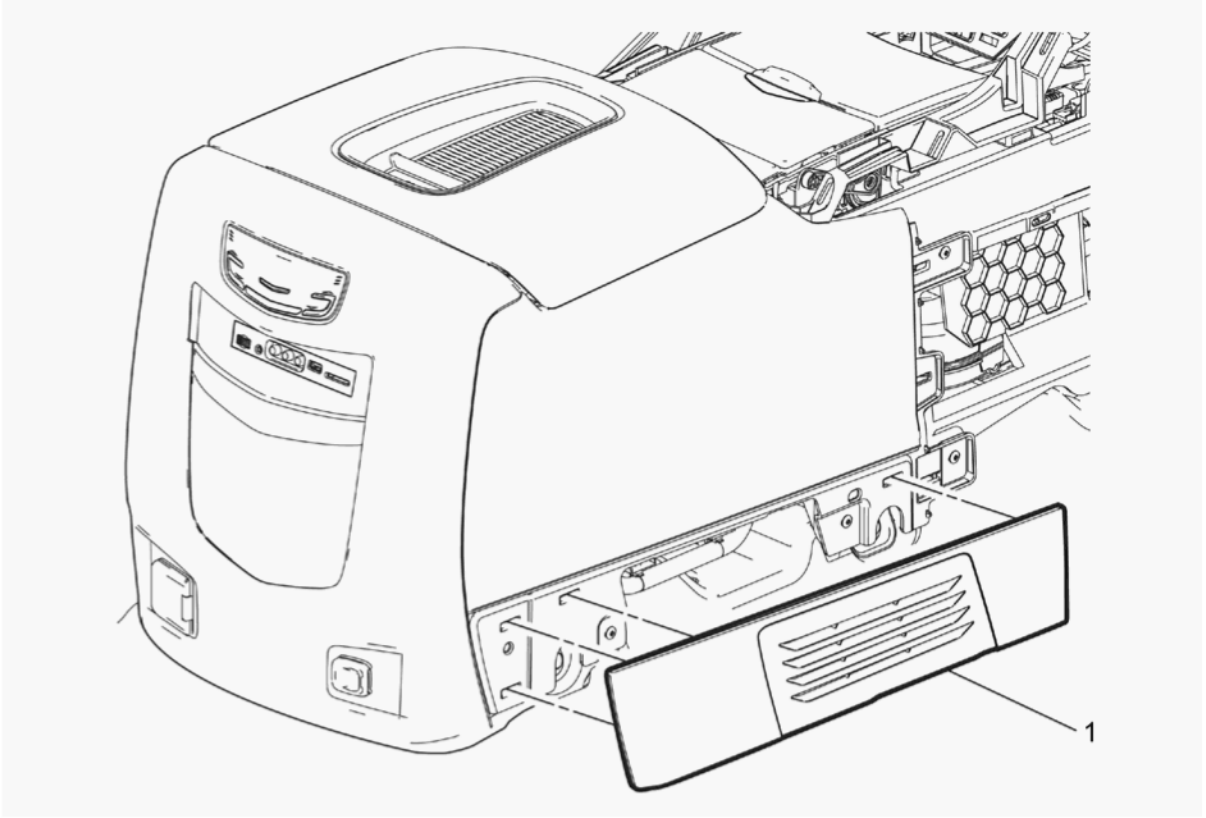


Fig. 182: Left And Right Front Floor Console Side Trim Panel
Courtesy of GENERAL MOTORS COMPANY

5. Install the left and right front floor console side trim panel (1) to the front floor console assembly.
6. Install the instrument panel lower trim plate applique. Refer to **Instrument Panel Lower Trim Plate Applique Replacement (Cadillac)**.
7. Install the right front floor console extension panel. Refer to **Front Floor Console Extension Panel Replacement - Right Side (Cadillac)**.
8. Install the left front floor console extension panel. Refer to **Front Floor Console Extension Panel Replacement - Left Side (Cadillac)**.
9. Install the driver and passenger seat. Refer to **Driver or Passenger Seat Removal and Installation** .

FRONT FLOOR CONSOLE ARMREST REPLACEMENT

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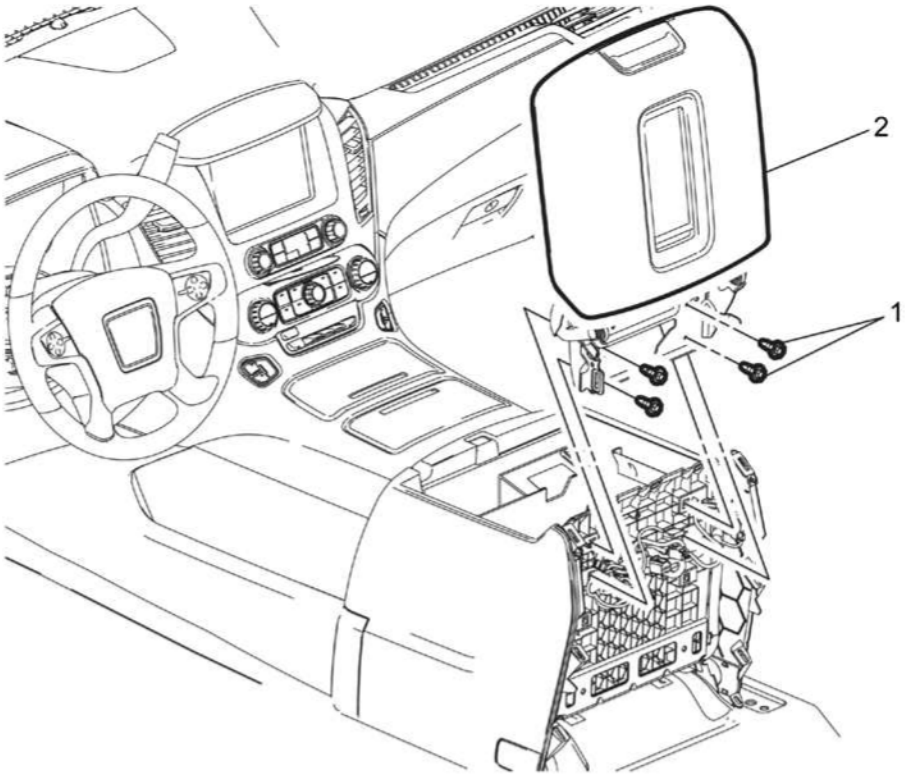


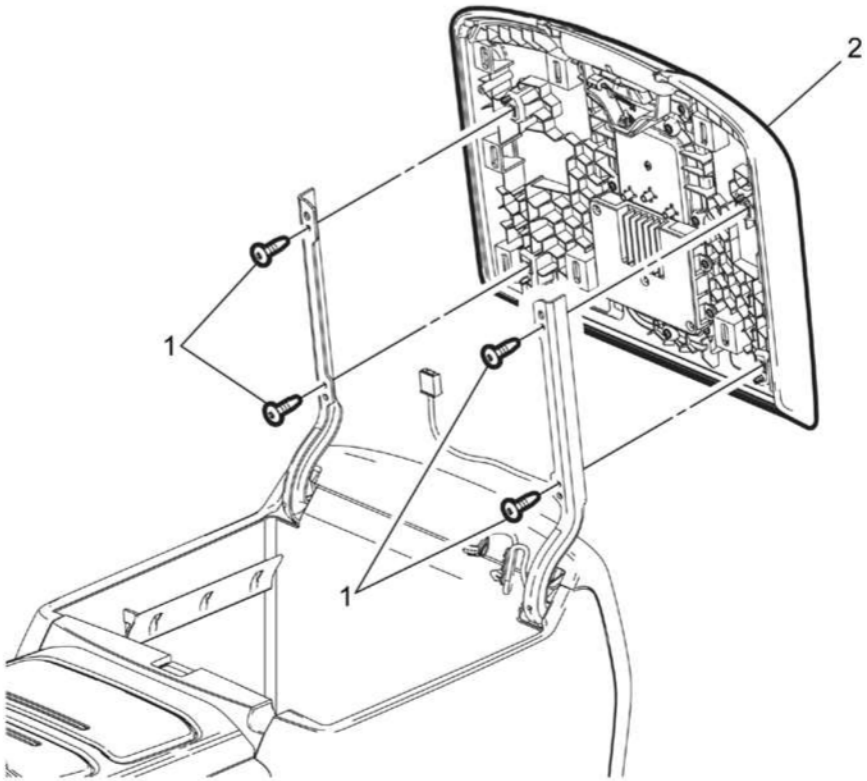
Fig. 183: Front Floor Console Armrest
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console rear trim panel. Refer to **Front Floor Console Rear Trim Panel Replacement (Chevrolet / GMC)Front Floor Console Rear Trim Panel Replacement (Cadillac)Front Floor Console Rear Trim Panel Replacement (Storage Structure)**.	
1	Front Floor Console Bolt (Qty: 4) **CAUTION:** **Refer to Fastener Caution .**

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Callout	Component Name
	Tighten 2.5 N.m (22 lb in)
2	Front Floor Console Armrest **Procedures** 1. Disconnect all electrical connectors. 2. Transfer components as necessary.

FRONT FLOOR CONSOLE OUTER ARMREST REPLACEMENT



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Fig. 184: Front Floor Console Outer Armrest
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: 4) **CAUTION:** **Refer to** **Fastener** **Caution** . **Tighten** 2.5 N.m (22 lb in)
2	Front Floor Console Outer Armrest **Procedures** 1. Disconnect all electrical connectors. 2. Transfer components as necessary.

FRONT FLOOR CONSOLE ARMREST HINGE REPLACEMENT

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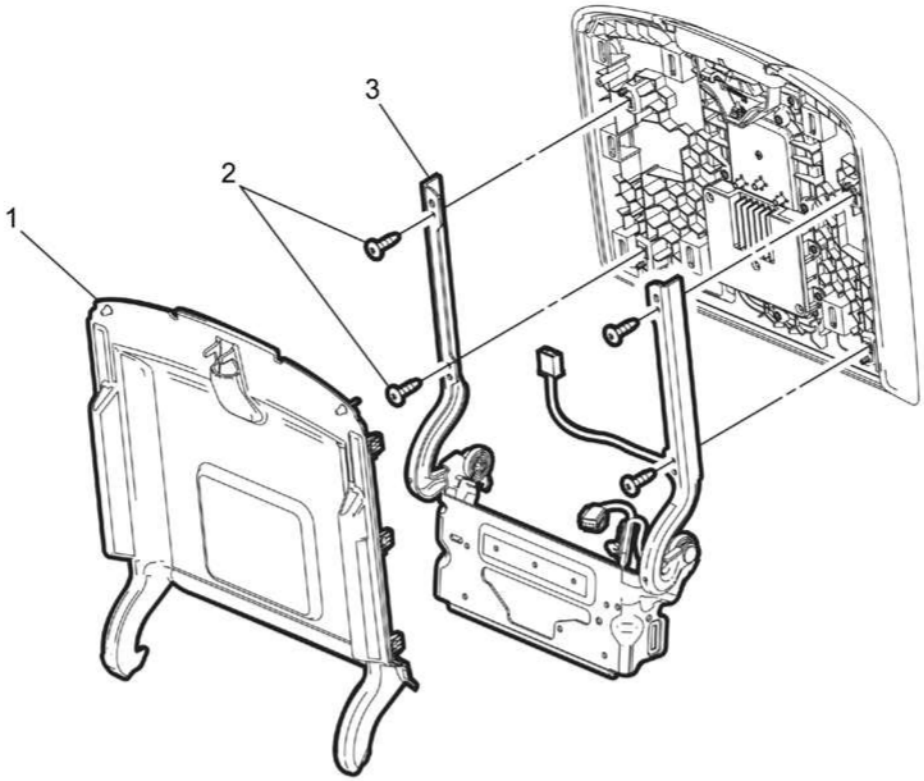


Fig. 185: Front Floor Console Armrest Hinge
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console armrest. Refer to **Front Floor Console Armrest Replacement**.	
1	Front Floor Console Armrest Hinge Cover **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the hinge cover to the outer armrest.
2	Front Floor Console Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener**

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Callout	Component Name
	Caution . **Tighten** 2.5 N.m (22 lb in)
3	Front Floor Console Armrest Hinge **Procedure** Disconnect the electrical connector.

FRONT FLOOR CONSOLE ARMREST HINGE COVER REPLACEMENT

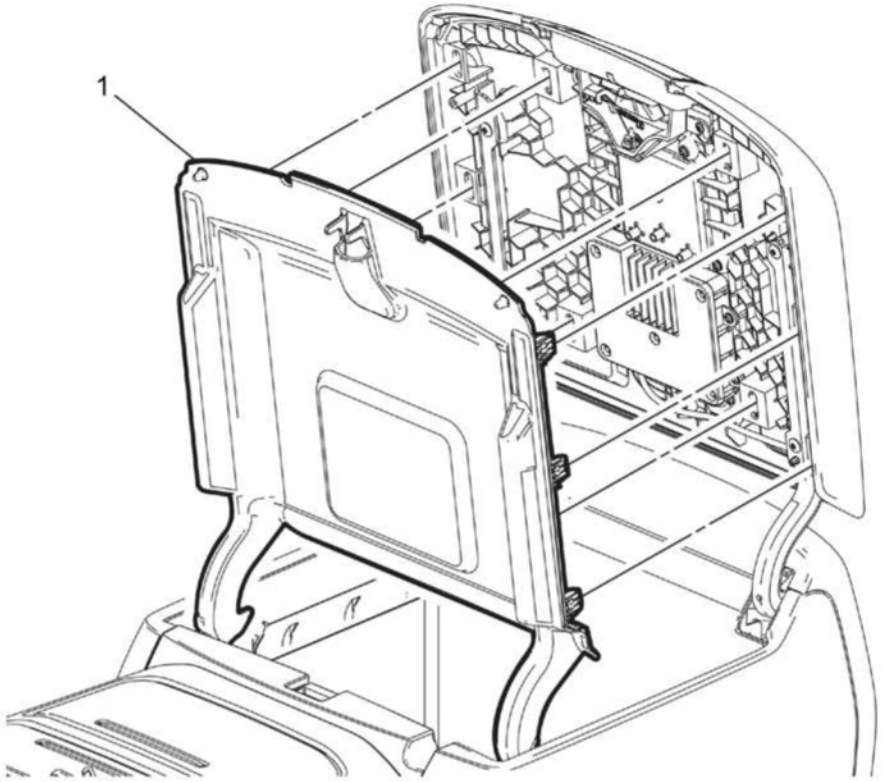


Fig. 186: Front Floor Console Armrest Hinge Cover
Courtesy of GENERAL MOTORS COMPANY

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Callout	Component Name
1	Front Floor Console Armrest Hinge Cover **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the hinge cover to the outer armrest.

FRONT FLOOR CONSOLE TRIM PLATE REPLACEMENT (CHEVROLET / GMC)

Removal Procedure

1. Remove Instrument Panel Knee Bolster **Instrument Panel Knee Bolster Replacement (Chevrolet / GMC)**

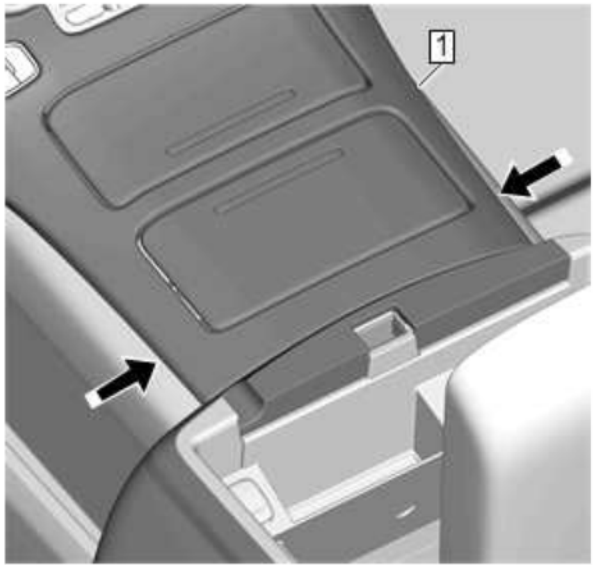


Fig. 187: Front Floor Console Trim Plate
Courtesy of GENERAL MOTORS COMPANY

2. DO NOT pry the front floor console trim plate (1) at these points. Doing so will damage the cup holder door mechanisms. Adhere to the following steps to prevent damage to the front floor console trim plate.(1)

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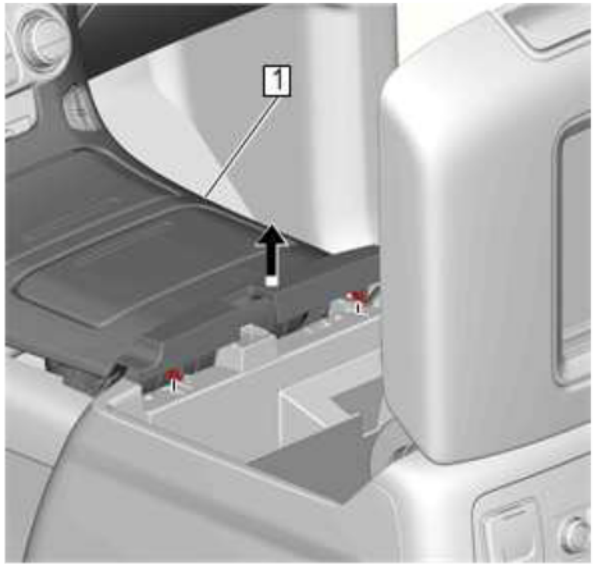


Fig. 188: Front Floor Console Trim Plate
Courtesy of GENERAL MOTORS COMPANY

3. Use a flat bladed plastic tool to release the rear retainers on the front floor console trim plate.(1)

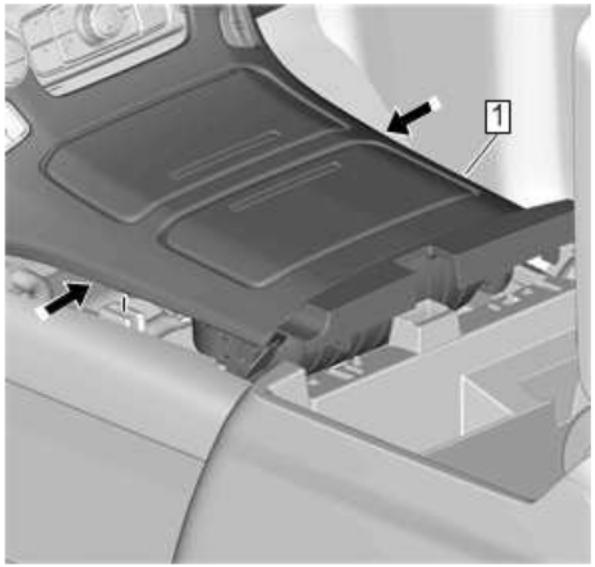


Fig. 189: Front Floor Console Trim Plate

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Courtesy of GENERAL MOTORS COMPANY

4. Use a flat bladed plastic tool to release the retainers between the two compartments on the front floor console trim plate.(1)

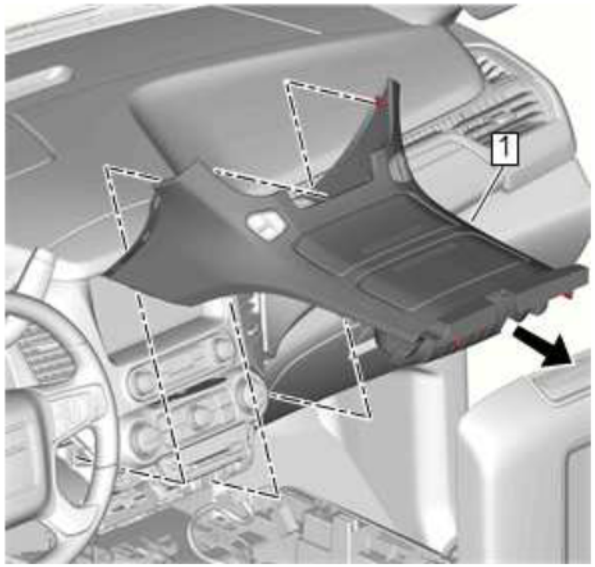


Fig. 190: Retaining Clips
Courtesy of GENERAL MOTORS COMPANY

5. Pull the front floor console trim Plate rearward to disengage the retaining clips. (1)
6. Disconnect the electrical connectors.
7. Transfer components as necessary.

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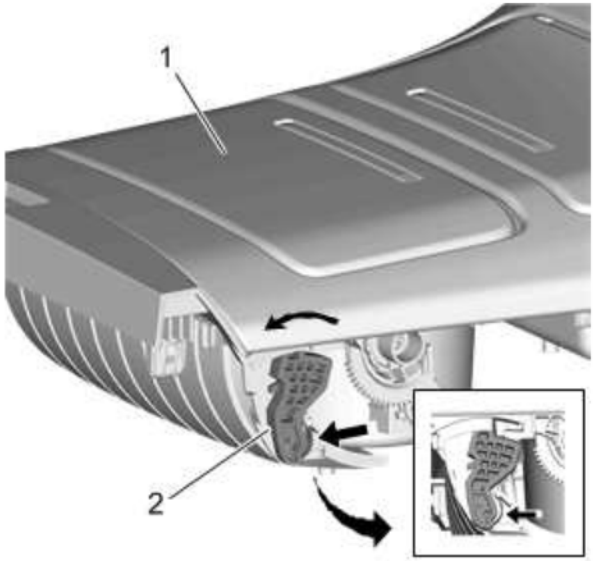


Fig. 191: Front Floor Console Cup Holder Door
Courtesy of GENERAL MOTORS COMPANY

8. If the front floor console cup holder door is locked (1) you can release the door by pressing on the pendulum cup holder inertia lock tab (2) where indicated.

Installation Procedure

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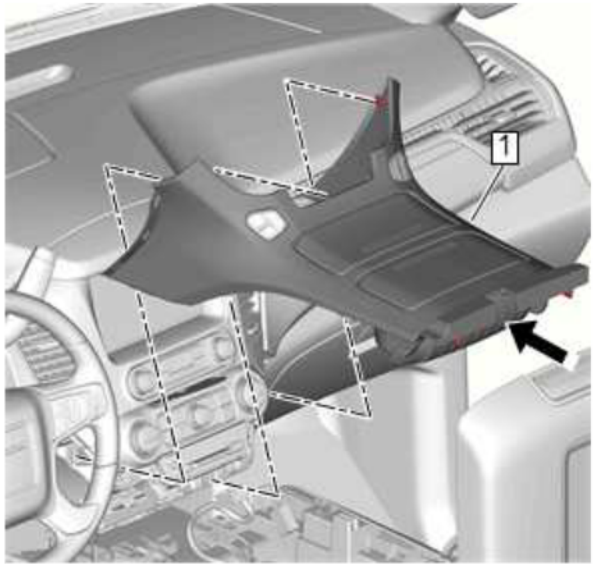
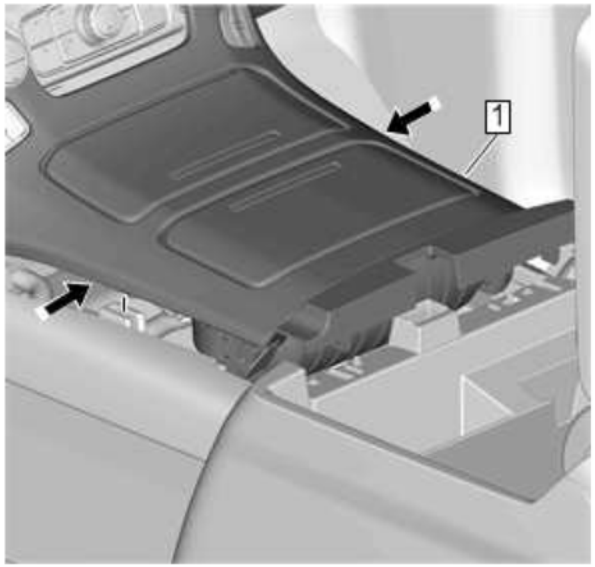


Fig. 192: Front Floor Console Trim Plate
Courtesy of GENERAL MOTORS COMPANY

1. Connect the electrical connectors.
2. Install the front of the front floor console trim plate.(1)



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Fig. 193: Front Floor Console Trim Plate
Courtesy of GENERAL MOTORS COMPANY

3. Engage the retainers between the two compartments on the front floor console trim plate.(1)

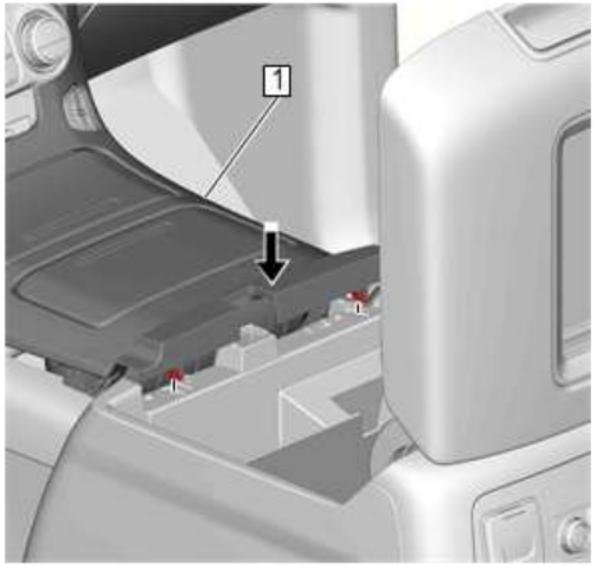


Fig. 194: Front Floor Console Trim Plate
Courtesy of GENERAL MOTORS COMPANY

4. Install the rear of the front floor console trim plate.(1)
5. Install Instrument Panel Knee Bolster **Instrument Panel Knee Bolster Replacement (Chevrolet / GMC)**

FRONT FLOOR CONSOLE APPLIQUE REPLACEMENT (CHEVROLET / GMC)

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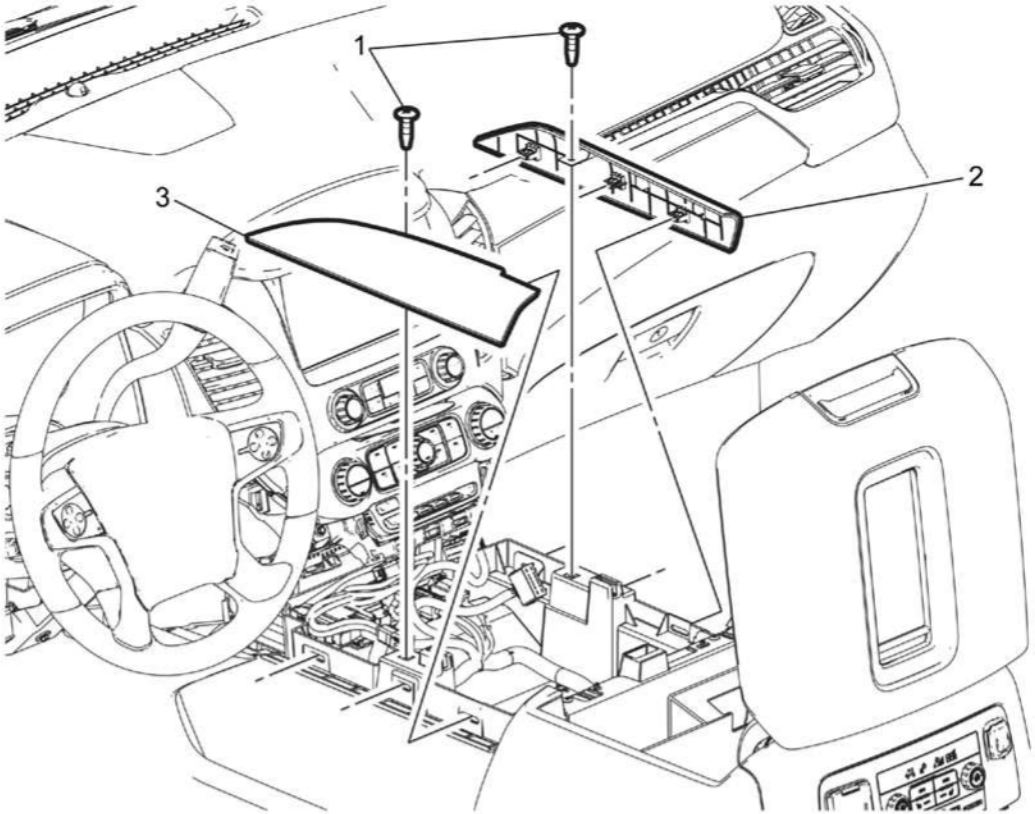


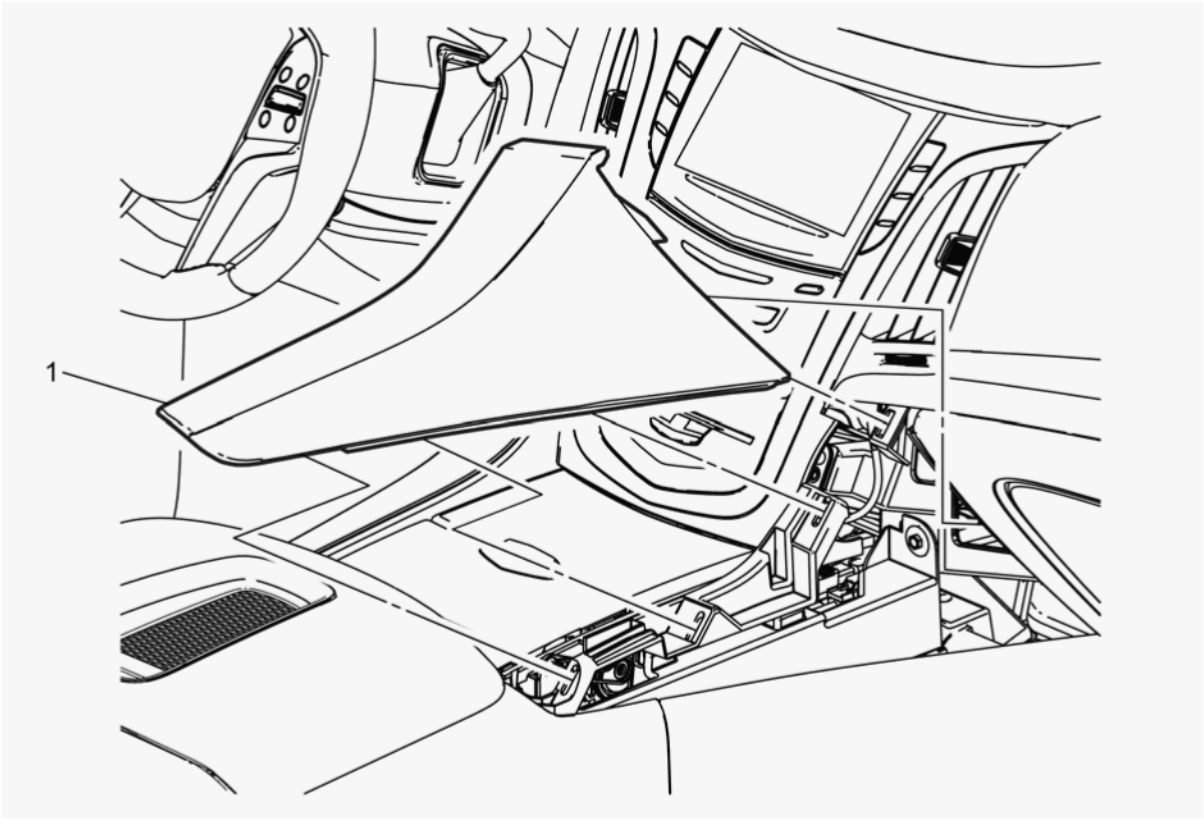
Fig. 195: Front Floor Console Applique (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front floor console trim plate. Refer to **Front Floor Console Trim Plate Replacement (Chevrolet / GMC)**.	
1	Front Floor Console Bolt (Qty: 2) **CAUTION:** **Refer to** **Fastener** **Caution** .

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Callout	Component Name
	Tighten 2.5 N.m (22 lb in)
2	Front Floor Console Applique - Right Side **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the applique to the front floor console assembly.
3	Front Floor Console Applique - Left Side **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the applique to the front floor console assembly.

FRONT FLOOR CONSOLE APPLIQUE REPLACEMENT - RIGHT SIDE (CADILLAC)



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Fig. 196: Front Floor Console Applique - Right Side (Cadillac)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Instrument Panel Trim Plate Replacement - Right Side (Cadillac)	
1	Front Floor Console Applique - Right Side **Procedure** Use a flat bladed plastic trim tool in order to release the retainer clips securing the applique to the front floor console assembly.

FRONT FLOOR CONSOLE APPLIQUE REPLACEMENT - LEFT SIDE (CADILLAC)

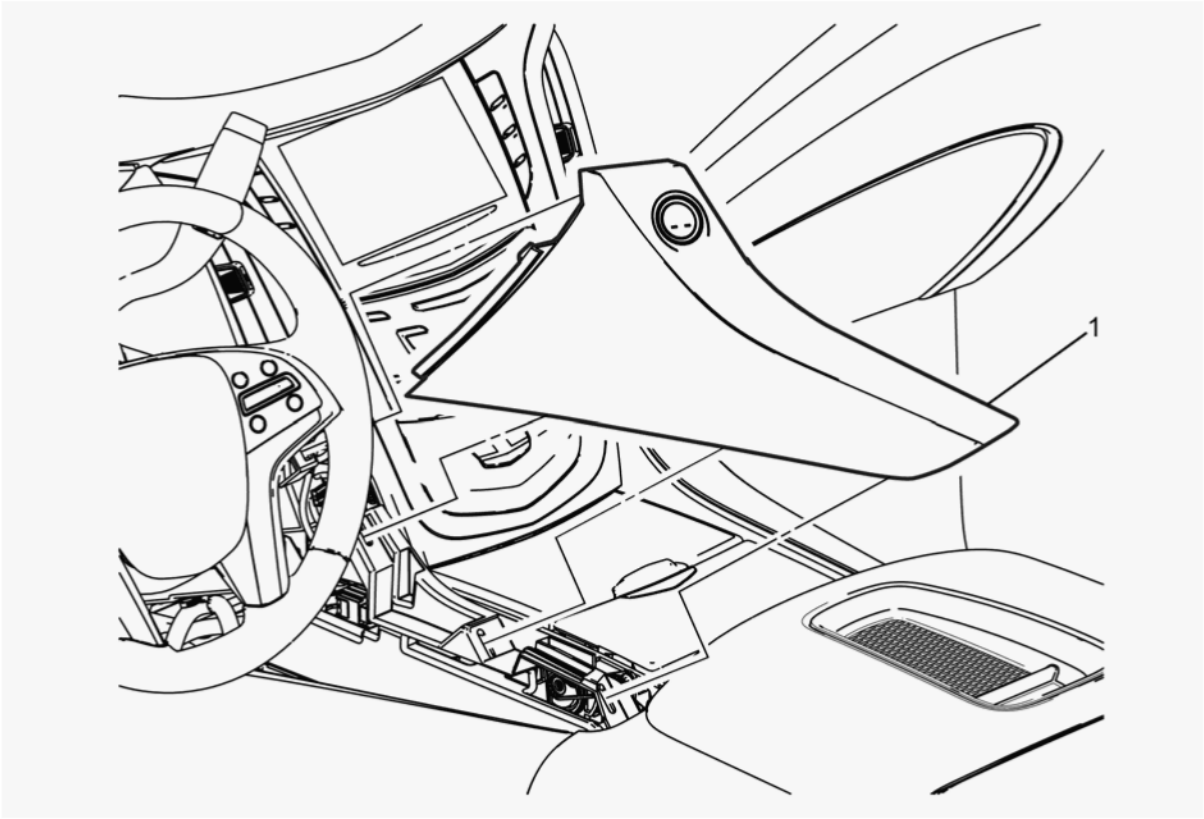


Fig. 197: Front Floor Console Applique - Left Side (Cadillac)

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Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. **Instrument Panel Knee Bolster Replacement (Cadillac)** 2. **Instrument Panel Center Trim Plate Applique Replacement (Cadillac)**	
1	Front Floor Console Applique - Left Side **Procedure** 1. Use a flat bladed plastic trim tool in order to release the retainer clips securing the applique to the front floor console assembly. 2. Disconnect the electrical connector. 3. Transfer components as necessary.

ROOF CONSOLE REPLACEMENT

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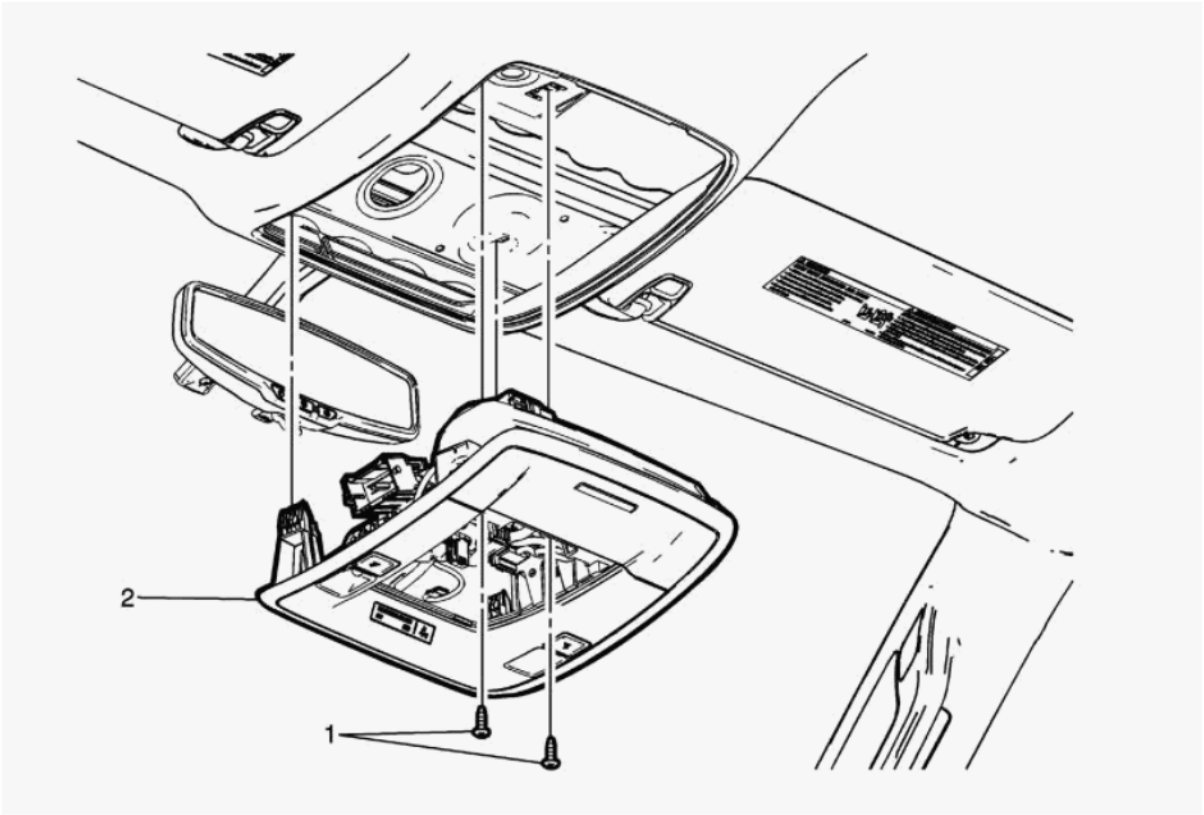


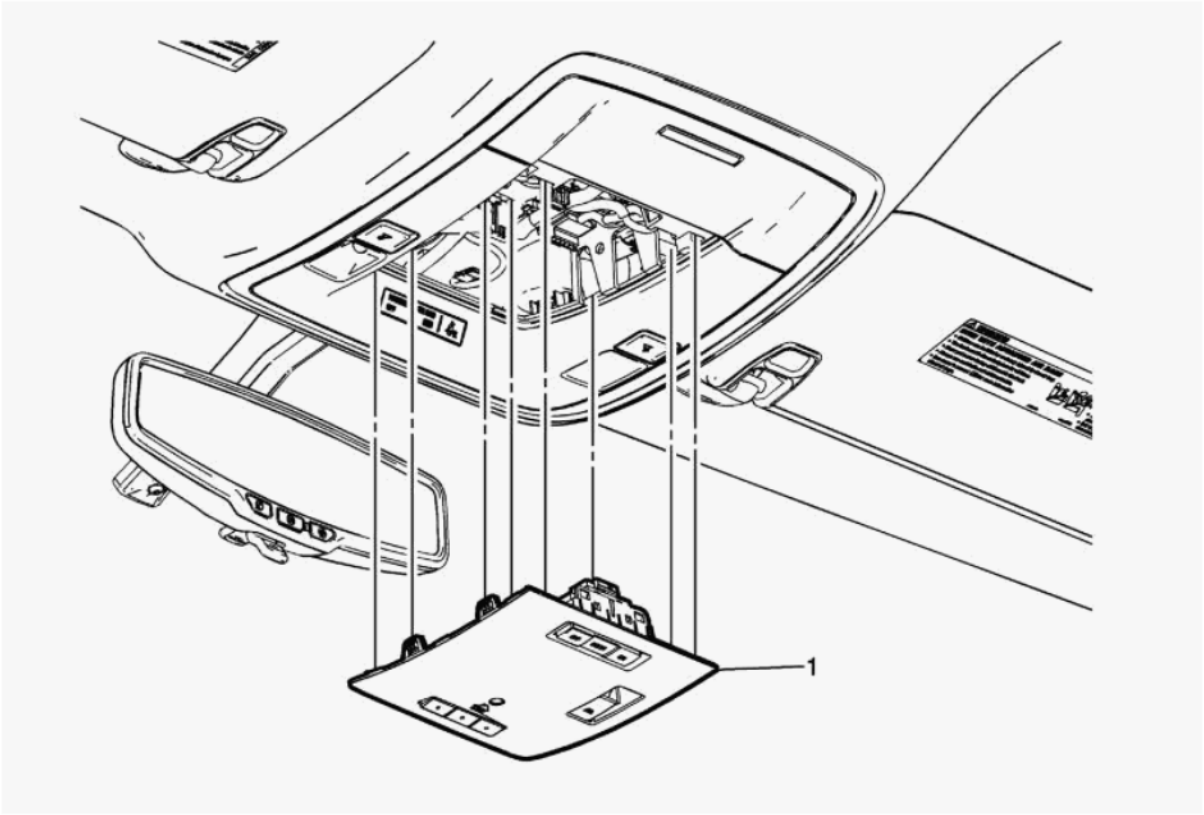
Fig. 198: Roof Console Assembly
Courtesy of GENERAL MOTORS COMPANY

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 .**

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Callout	Component Name
	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 OPENING TRIM PLATE REPLACEMENT



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Fig. 199: 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.

ROOF REAR CONSOLE REPLACEMENT (CHEVROLET / GMC)

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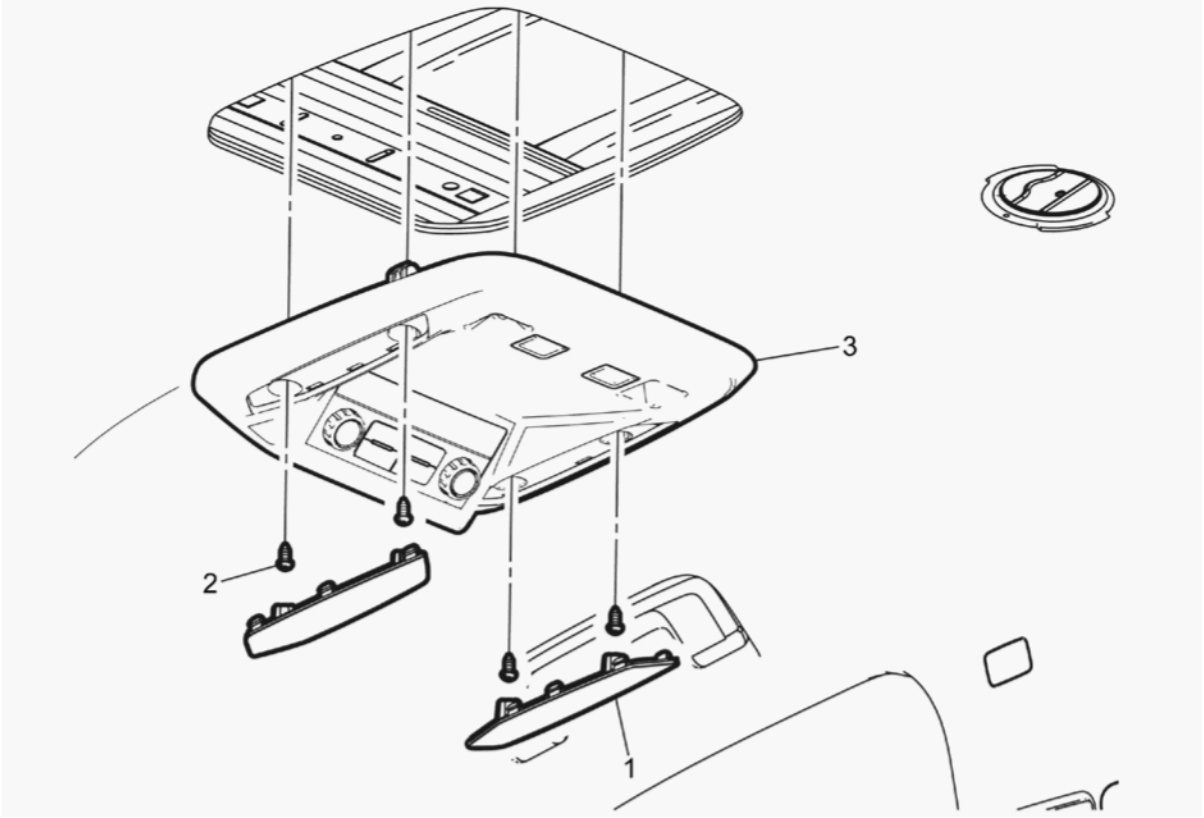


Fig. 200: Roof Rear Console (Chevrolet / GMC)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Roof Console Opening Trim Plate (Qty: 2) **Procedure** Use a flat bladed plastic trim tool in order to release the retainer tabs securing the trim plate to the roof rear console.
2	Roof Rear Console Bolt (Qty: 4) **CAUTION:** **Refer to** **Fastener Caution** .

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Callout	Component Name
	Tighten 2.5 N.m (22 lb in)
3	Roof Rear Console **Procedures** 1. Disconnect all electrical connectors. 2. Transfer components as necessary.

DESCRIPTION AND OPERATION

COOLER BOX DESCRIPTION AND OPERATION

The cooler box is a bin that uses a thermal electric device to cool. The cooled temperature will vary based on the ambient air temperature and the amount of contact to the surrounding box surface.

The ignition must be ON for the cooler box to operate. When the ignition is ON, pressing the momentary switch requests the Center Console Compartment Cooler Control Module to active the box.

The indicator is provided voltage by the Body Control Module. When the box is operating, the Center Console Compartment Cooler Control Module illuminates the indicator by providing ground.

INSTRUMENT PANEL COMPARTMENT DESCRIPTION AND OPERATION

Instrument Panel Compartment Door Release System Components

- Body control module (BCM)
- Glove compartment release switch
- Instrument panel compartment door unlatch actuator
- Instrument panel compartment door unlatch actuator relay

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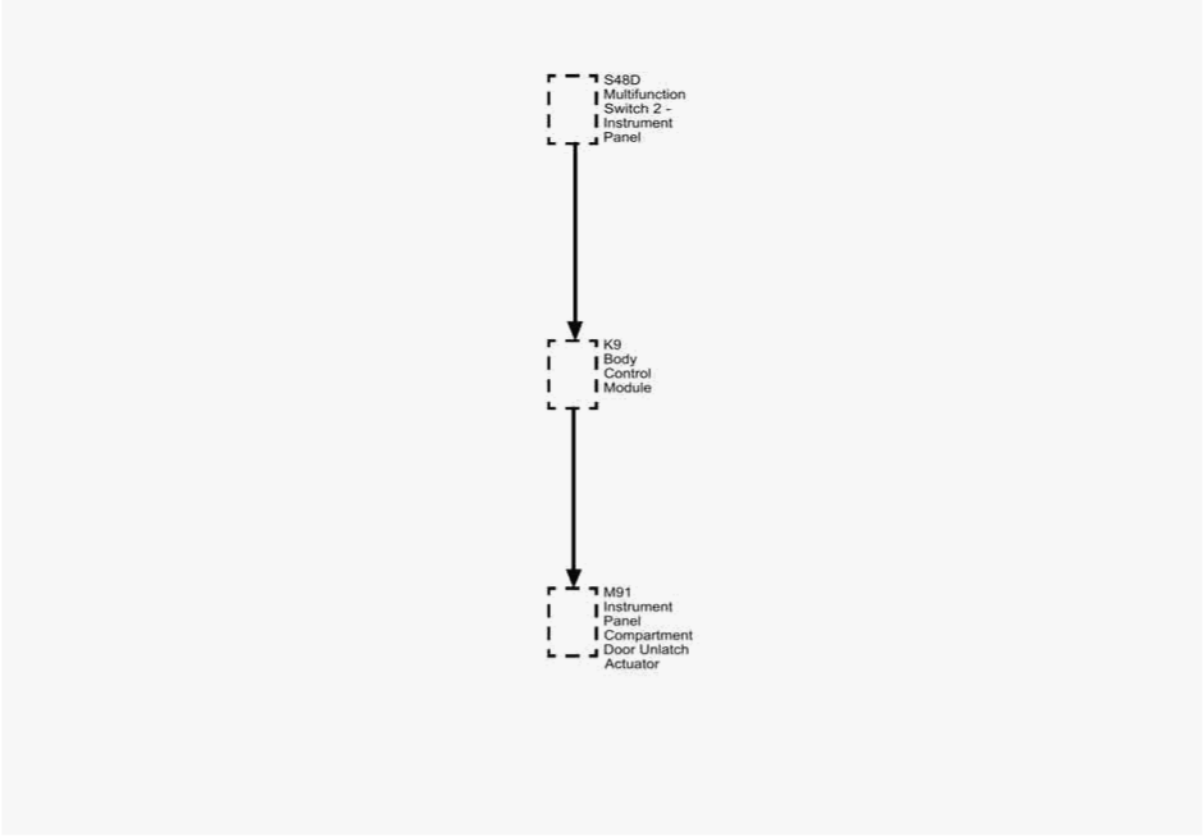


Fig. 201: Instrument Panel Compartment Door Unlatch Actuator Wiring Schematic
Courtesy of GENERAL MOTORS COMPANY

Instrument Panel Compartment Door Release Operation

When the glove compartment release switch is pressed, the instrument panel compartment release switch signal circuit is switched to ground. The BCM responds by applying battery voltage to the relay control circuit which energizes the relay. The relay is supplied with battery voltage at all times from a 10A fuse. With the relay coil energized, the relay switch contacts close allowing battery voltage to be supplied to the instrument panel compartment door unlatch actuator causing the actuator to release. The glove compartment release switch ground is part of instrument panel multifunction switch 2.

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