

## 2008 Isuzu Ascender LS

2008 Accessories & Equipment Instrument Panel & Console Trim - Ascender, Envoy & Trailblazer

### 2008 Accessories & Equipment

#### Instrument Panel & Console Trim - Ascender, Envoy & Trailblazer

## SPECIFICATIONS

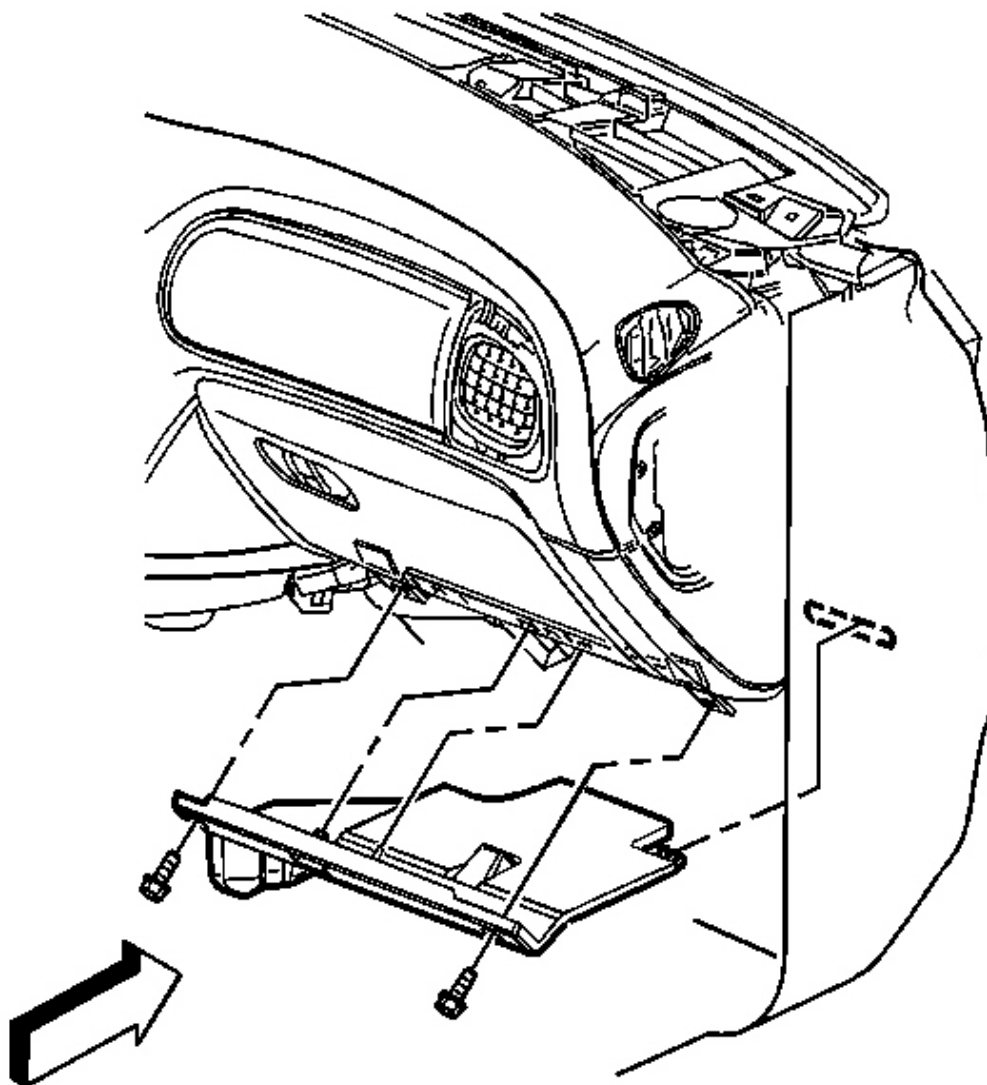
### FASTENER TIGHTENING SPECIFICATIONS

| Application   | Specification |          |
|---|---------------|----------|
|   | Metric        | English  |
| Closeout Insulator Left Panel Screws                          | 2.5 N.m       | 22 lb in |
| Closeout Insulator Lower Panel Screws                         | 1.9 N.m       | 17 lb in |
| Closeout Insulator Right Panel Screws                         | 2.5 N.m       | 22 lb in |
| Cowl Side Carrier Bracket Nuts                                | 50 N.m        | 36 lb ft |
| Floor Console Bracket to Floor Panel Nuts                     | 25 N.m        | 18 lb ft |
| Floor Console Bracket to I/P Bracket Nuts                     | 10 N.m        | 88 lb in |
| Floor Console Screws  | 2.5 N.m       | 22 lb in |
| Floor Console Storage Bin Screws                              | 2.5 N.m       | 22 lb in |
| HVAC Center Support Bracket Nuts                              | 10 N.m        | 88 lb in |
| HVAC Module to I/P Carrier Nuts                               | 10 N.m        | 88 lb in |
| I/P Assembly Bolts  | 7 N.m         | 62 lb in |
| I/P Cluster Bezel Screws                                      | 2.5 N.m       | 22 lb in |
| I/P Storage Compartment Door Screws                           | 2.5 N.m       | 22 lb in |
| I/P Wire Harness Ground Terminal to Front Fender Bolt         | 10 N.m        | 88 lb in |
| I/P Wire Harness to Front Plenum Weld Stud Nut                | 10 N.m        | 88 lb in |
| I/P Wire Harness to Ground Terminal Hood Bolt                 | 10 N.m        | 88 lb in |
| I/P Wire Harness to I/P Support Bracket Screws                | 2.5 N.m       | 22 lb in |
| I/P Wire Harness to Left I/P Support Bracket Screw            | 2.5 N.m       | 22 lb in |
| I/P Wire Harness to Splice Pack Bolt                          | 10 N.m        | 88 lb in |
| I/P Wire Harness to Steering Column Electrical Connector Bolt | 6 N.m         | 53 lb in |
| I/P Wire Harness to Underhood Battery Cable Terminal Nut      | 10 N.m        | 88 lb in |
| Knee Bolster Screw  | 9 N.m         | 80 lb in |
| Knee Bolster Trim Panel Screw                                 | 9 N.m         | 80 lb in |
| Side Window Defogger Duct Screw                               | 2.5 N.m       | 22 lb in |
| Steering Column Support Bracket Bolts                         | 50 N.m        | 36 lb ft |
| Trim Plate I/P Accessory Screws                               | 2.5 N.m       | 22 lb in |
| Trim Plate Left I/P Accessory Screws                          | 2.5 N.m       | 22 lb in |

## REPAIR INSTRUCTIONS

### INSTRUMENT PANEL INSULATOR PANEL REPLACEMENT - RIGHT SIDE

**Removal Procedure**

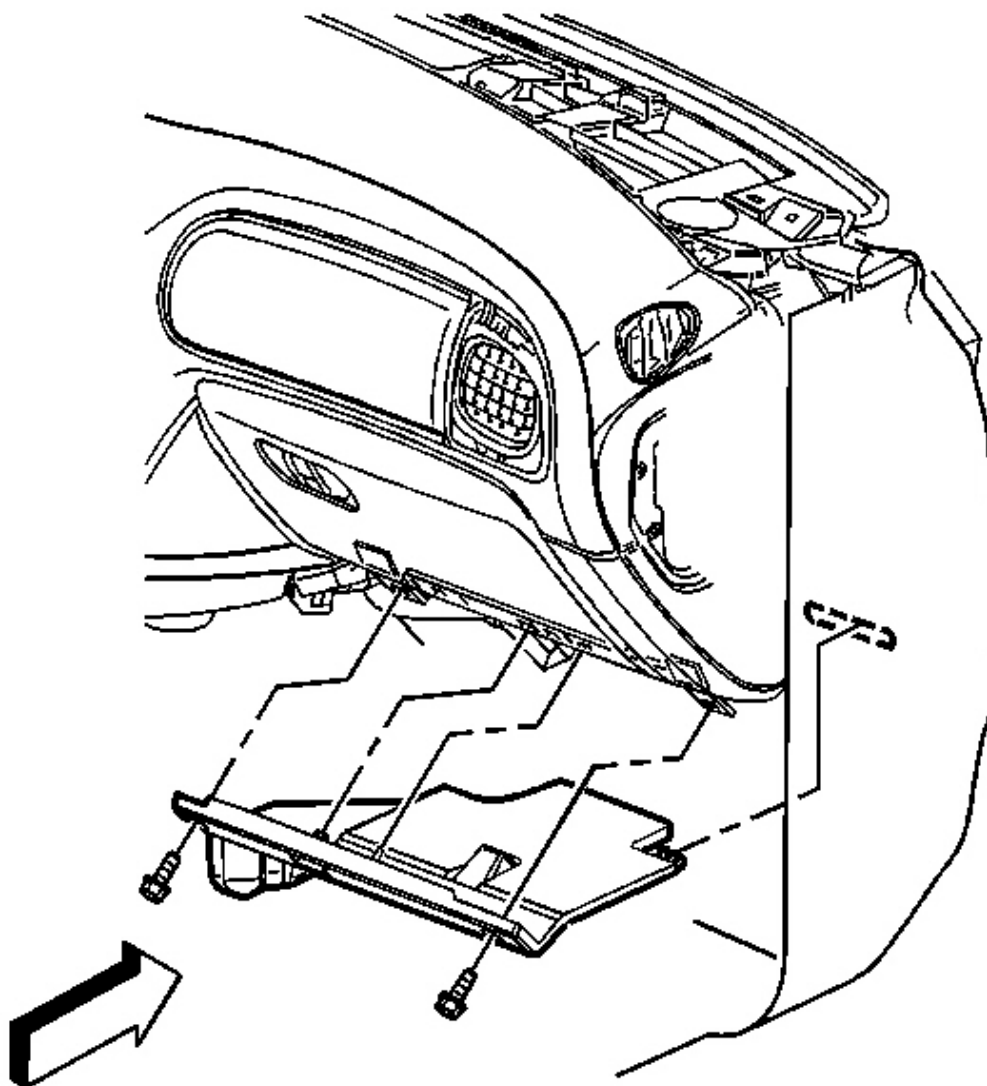


**Fig. 1: View Of Instrument Panel (IP) & Retaining Screws**  
**Courtesy of GENERAL MOTORS CORP.**

1. Remove the 2 screws that retain the insulator panel to the instrument panel (I/P).
2. Partially remove the insulator panel.
3. Remove the electrical connector retaining clip from the back side of the insulator panel, if equipped.

4. Remove the insulator panel from the vehicle.

#### **Installation Procedure**



**Fig. 2: View Of Instrument Panel (IP) & Retaining Screws**  
Courtesy of GENERAL MOTORS CORP.

1. Install the insulator panel to the vehicle, positioning the insulator panel to the I/P.
2. Install the electrical connector retaining clip to the back side of the insulator panel, if equipped.

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3. Insert the insulator panel retaining tab into the cowl slot.
4. Seat the insulator panel retaining clip to the I/P substrate.

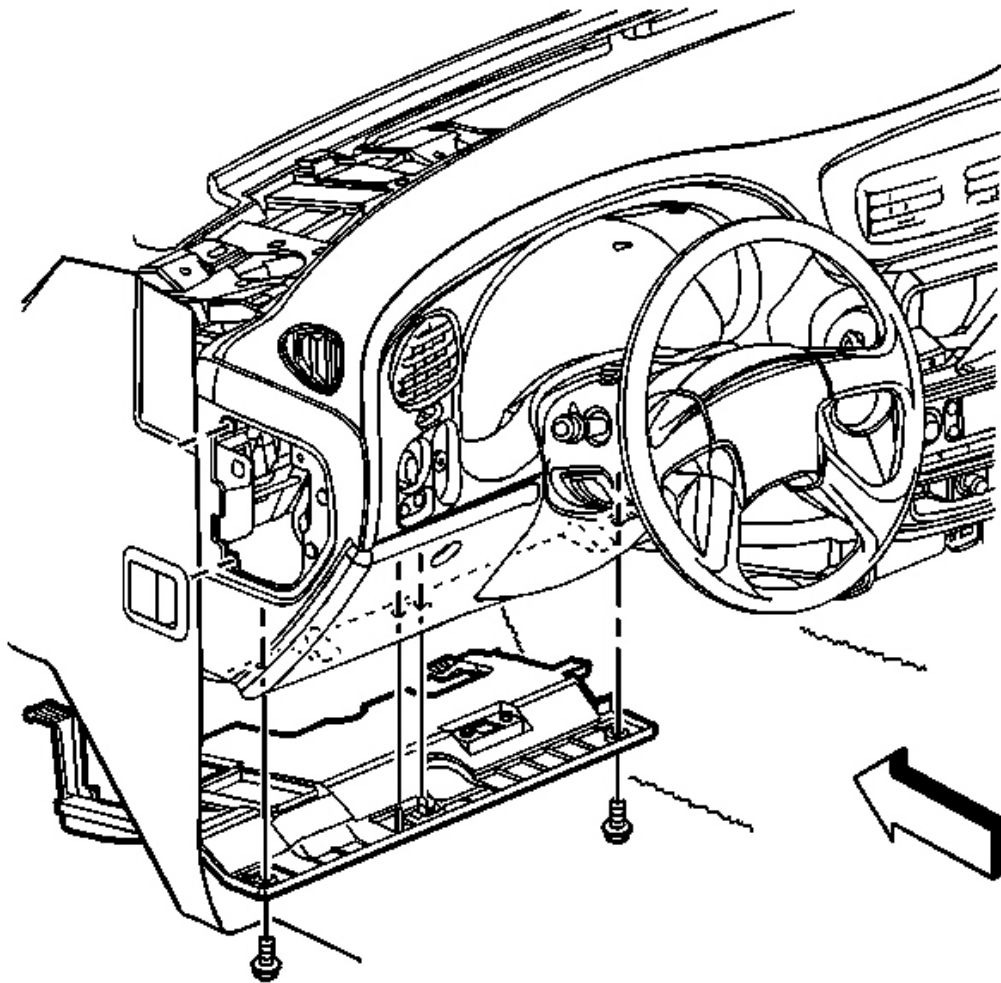
**NOTE:** Refer to Fastener Notice .

5. Install the 2 insulator panel retaining screws.

**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

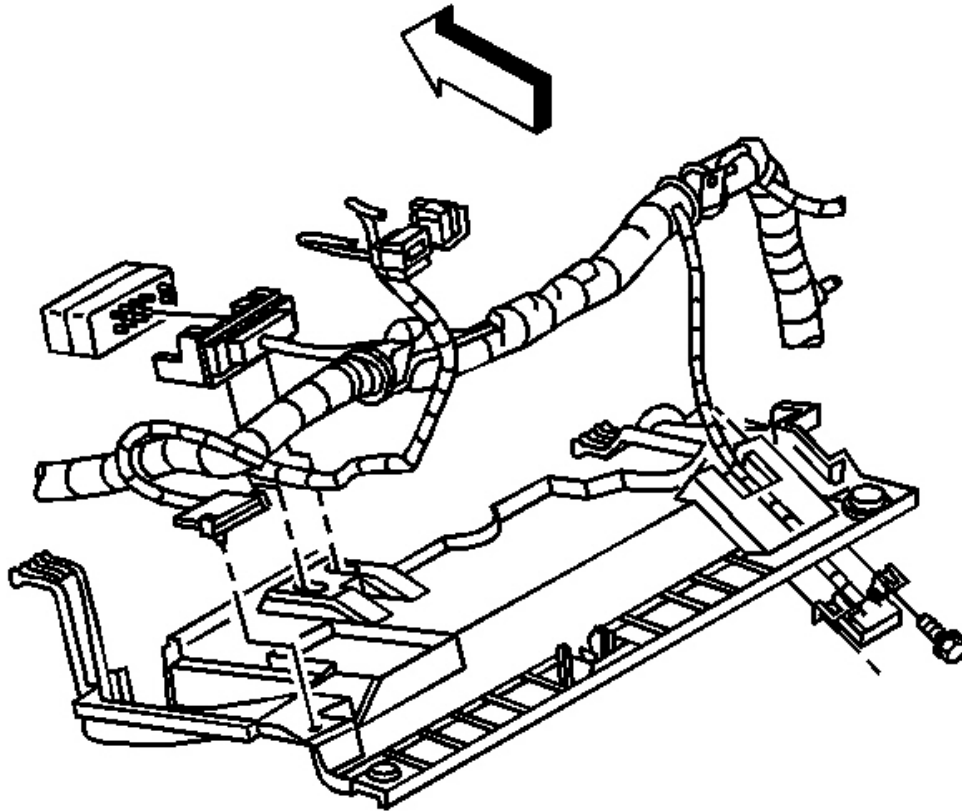
### INSTRUMENT PANEL INSULATOR PANEL REPLACEMENT - LEFT SIDE

#### Removal Procedure



**Fig. 3: View Of Closeout/Insulator Panel Screws - Left**  
**Courtesy of GENERAL MOTORS CORP.**

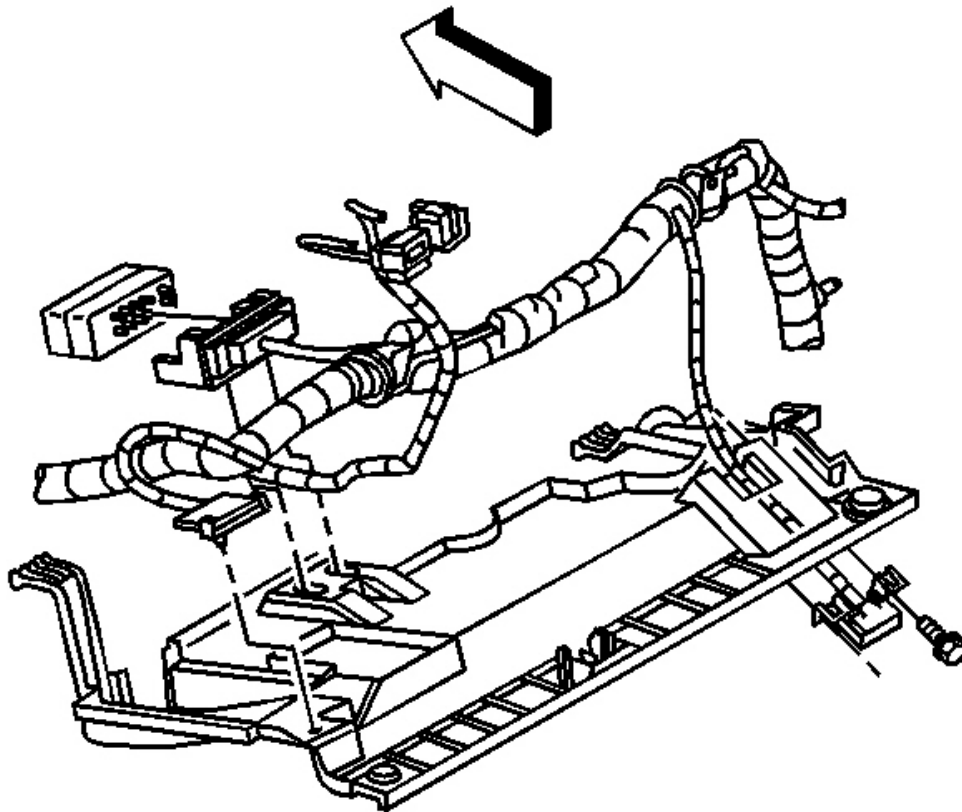
1. Remove the 2 screws that retain the insulator panel to the instrument panel (I/P).
2. Release the insulator panel retaining clip from the I/P substrate.
3. Lower the insulator panel.



**Fig. 4: View Of Data Link Connector (DLC) & Insulator Panel**  
Courtesy of GENERAL MOTORS CORP.

4. Remove the 2 data link connector (DLC) retaining screws.
5. Remove the DLC from the insulator panel.
6. Remove the splice pack from the insulator panel.
7. Remove the hazard and turn signal flasher from the insulator panel. Refer to **Hazard and Turn Signal Flasher Replacement** .
8. Remove the insulator panel from the I/P.

#### Installation Procedure



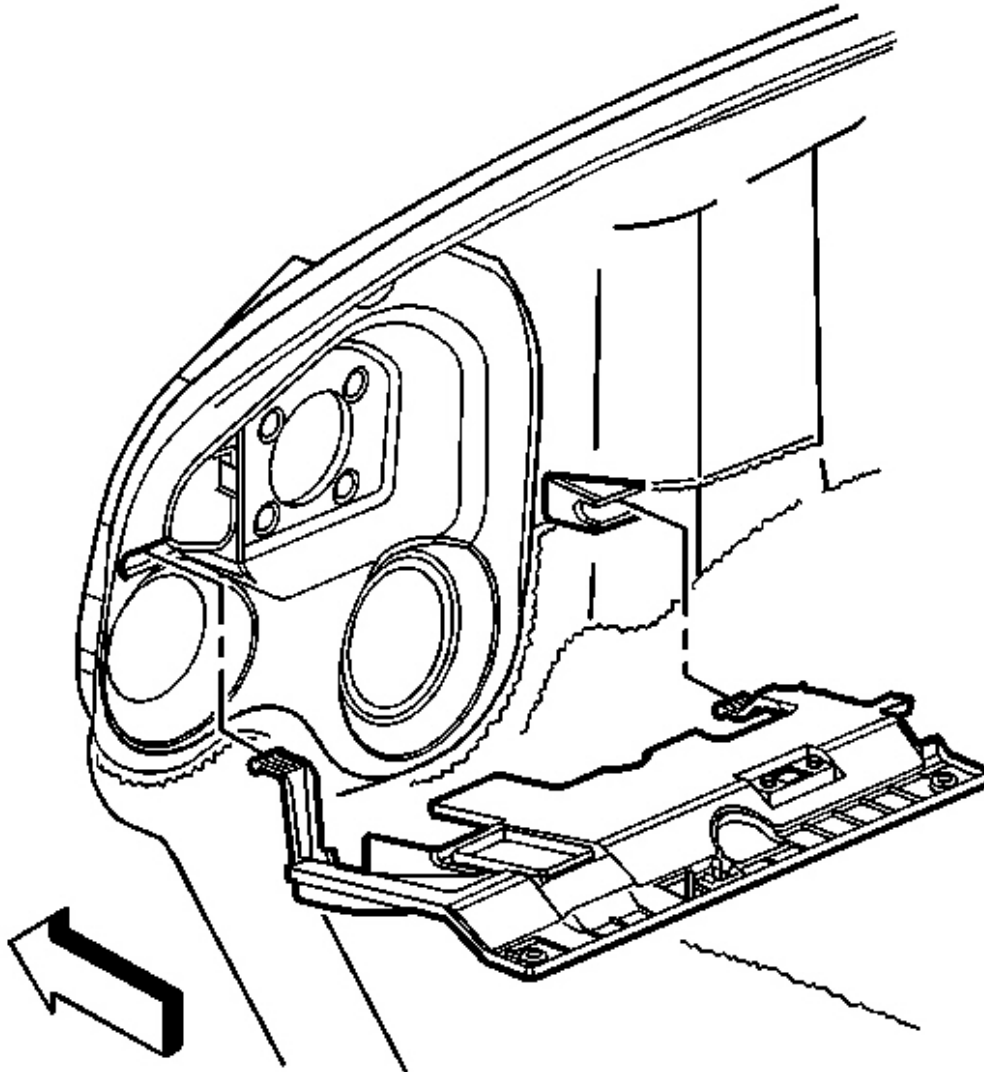
**Fig. 5: View Of Data Link Connector (DLC) & Insulator Panel**  
Courtesy of GENERAL MOTORS CORP.

1. Position the insulator panel to the I/P.
2. Install the hazard and turn signal flasher to the insulator panel. Refer to **Hazard and Turn Signal Flasher Replacement** .
3. Install the splice pack to the insulator panel.
4. Position the DLC to the insulator panel.

**NOTE:**        Refer to **Fastener Notice** .

5. Install the DLC retaining screws.

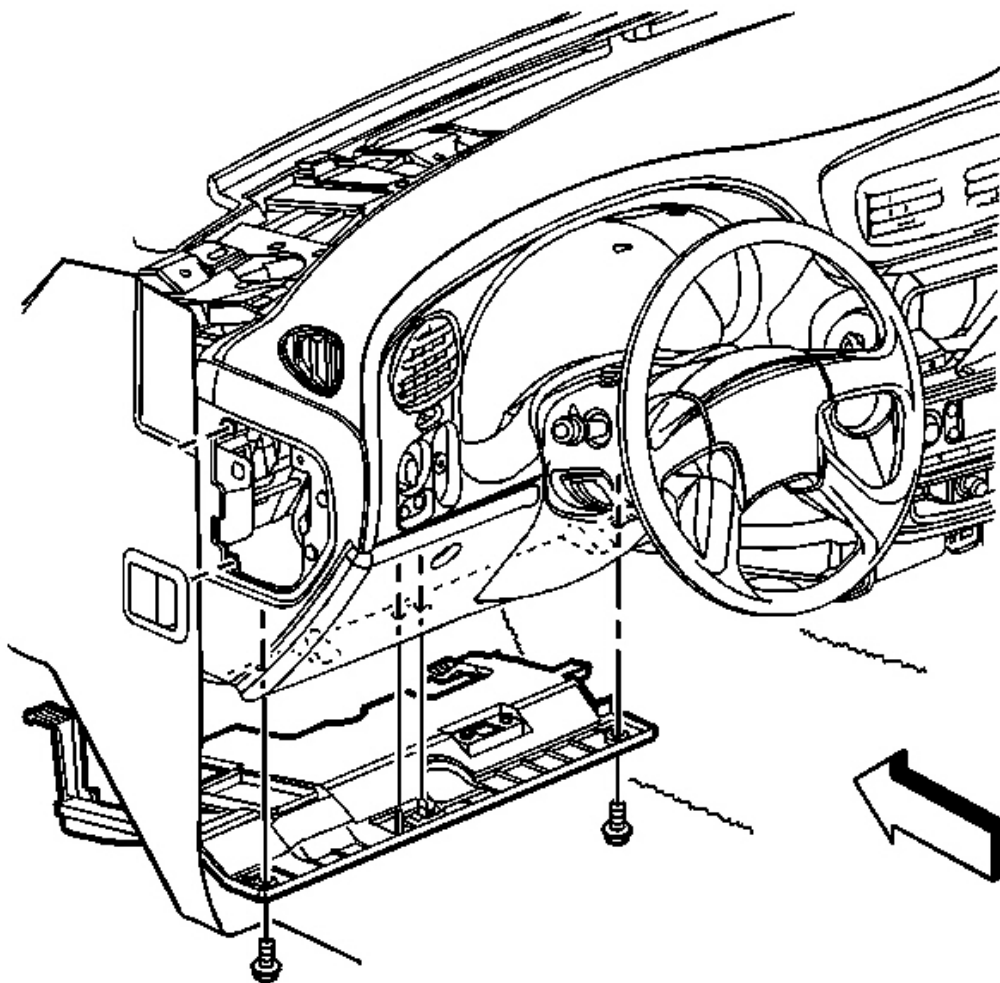
**Tighten:** Tighten the DLC retaining screws to 2.5 N.m (22 lb in).



**Fig. 6: Installing Insulator Panel Tabs To Cowl Slots**  
Courtesy of GENERAL MOTORS CORP.

6. Install the insulator panel tabs to the cowl slots.





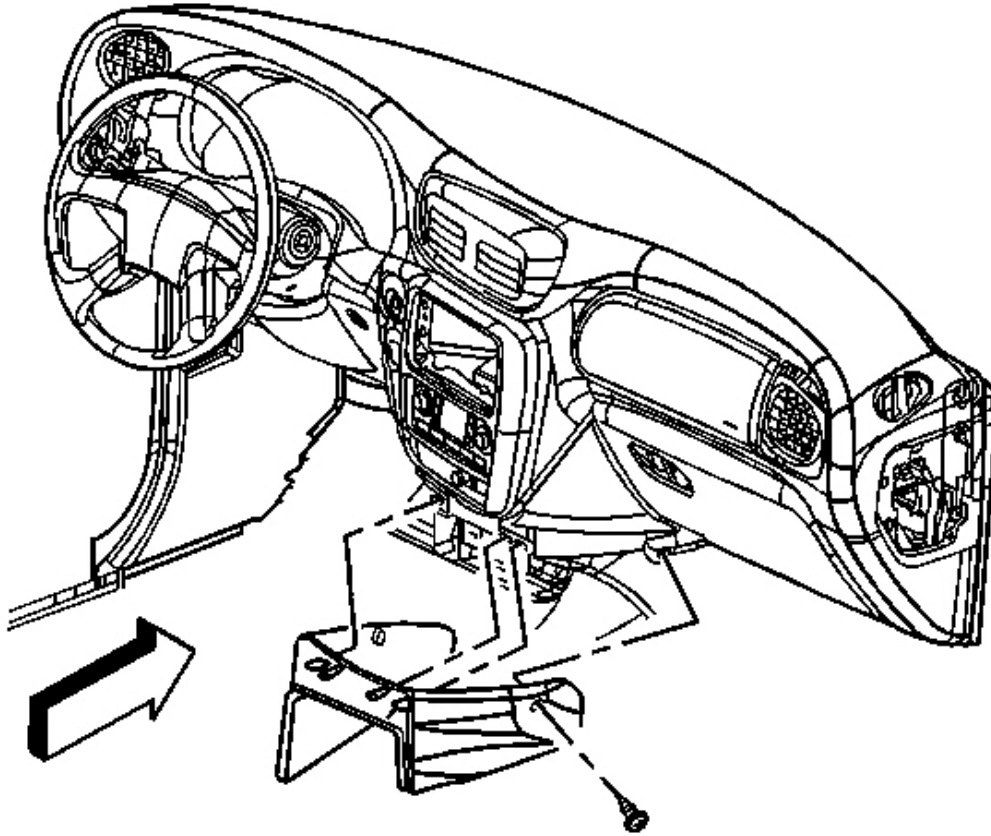
**Fig. 7: View Of Closeout/Insulator Panel Screws - Left**  
Courtesy of GENERAL MOTORS CORP.

7. Raise the insulator panel to the I/P.
8. Install the insulator panel retaining clip to the I/P substrate.
9. Install the 2 screws that retain the insulator panel to the I/P.

**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

## **INSTRUMENT PANEL INSULATOR PANEL REPLACEMENT (GMC/CHEVROLET)**

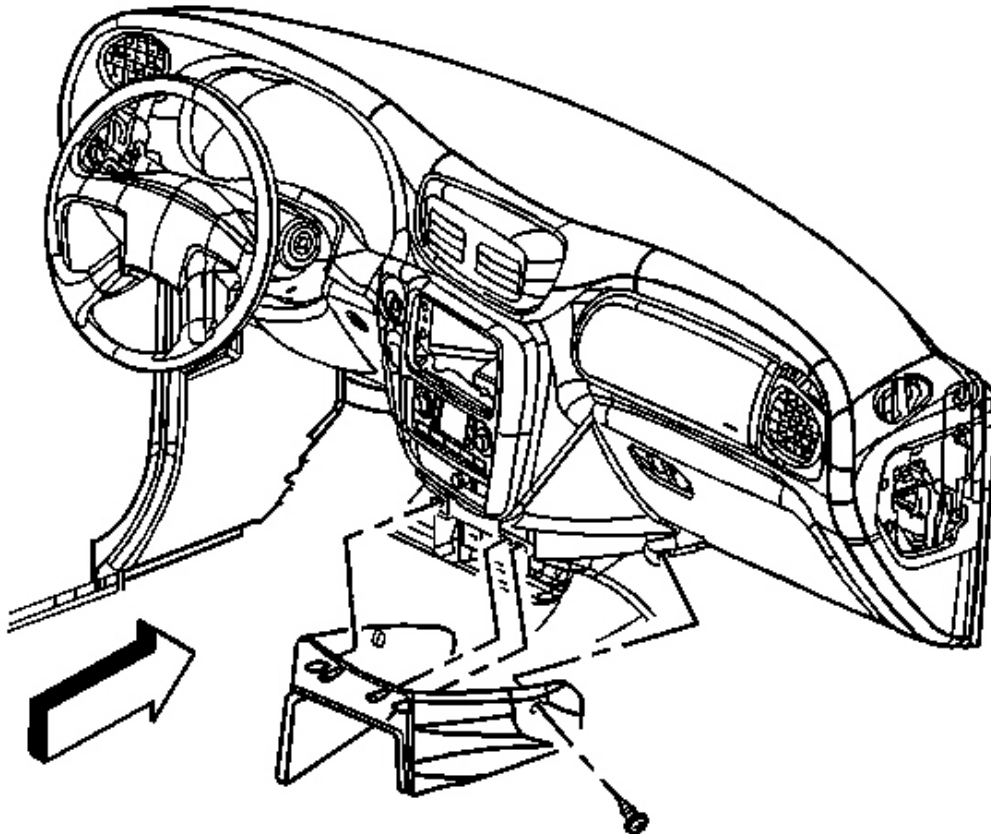
### **Removal Procedure**



**Fig. 8: View Of Floor Closeout Panel**  
Courtesy of GENERAL MOTORS CORP.

1. Remove the floor console. Refer to **Console Replacement**.
2. Remove the 4 screws that retain the closeout panel to the instrument panel (I/P) substrate.
3. Remove the closeout panel from the vehicle.

**Installation Procedure**



**Fig. 9: View Of Floor Closeout Panel**  
Courtesy of GENERAL MOTORS CORP.

1. Install the closeout panel to the vehicle.

**NOTE:** Refer to Fastener Notice .

2. Install the 4 screws that retain the closeout panel to the I/P.

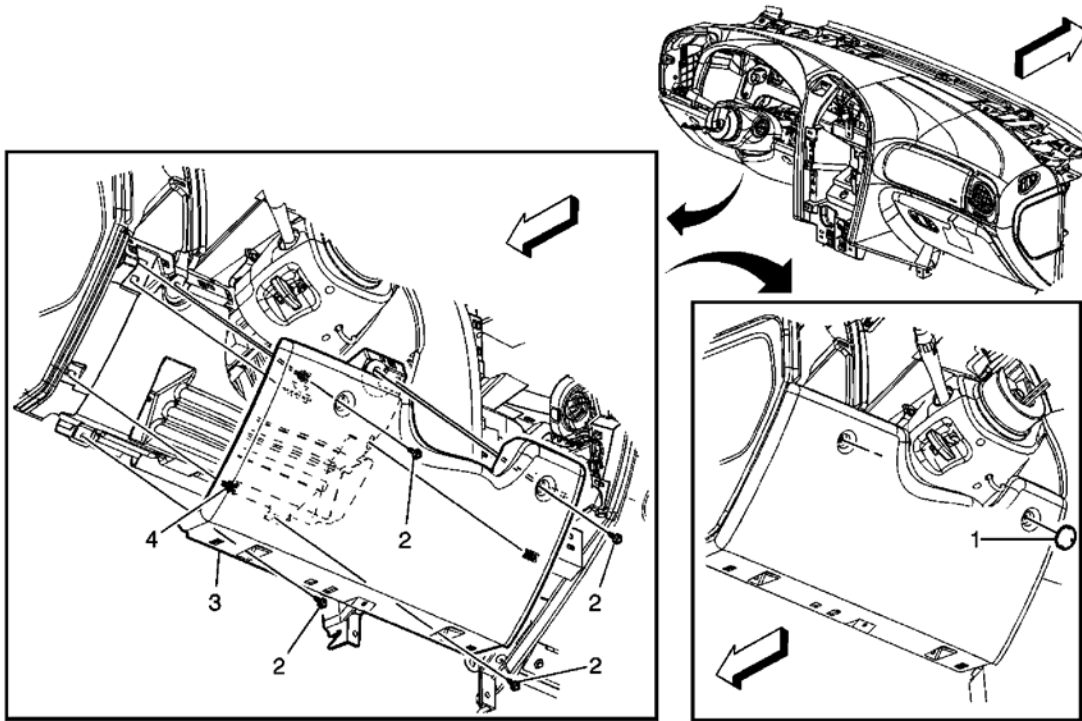
**Tighten:** Tighten the screws to 1.9 N.m (17 lb in).

3. Install the floor console. Refer to Console Replacement.

## DRIVER KNEE BOLSTER PANEL REPLACEMENT

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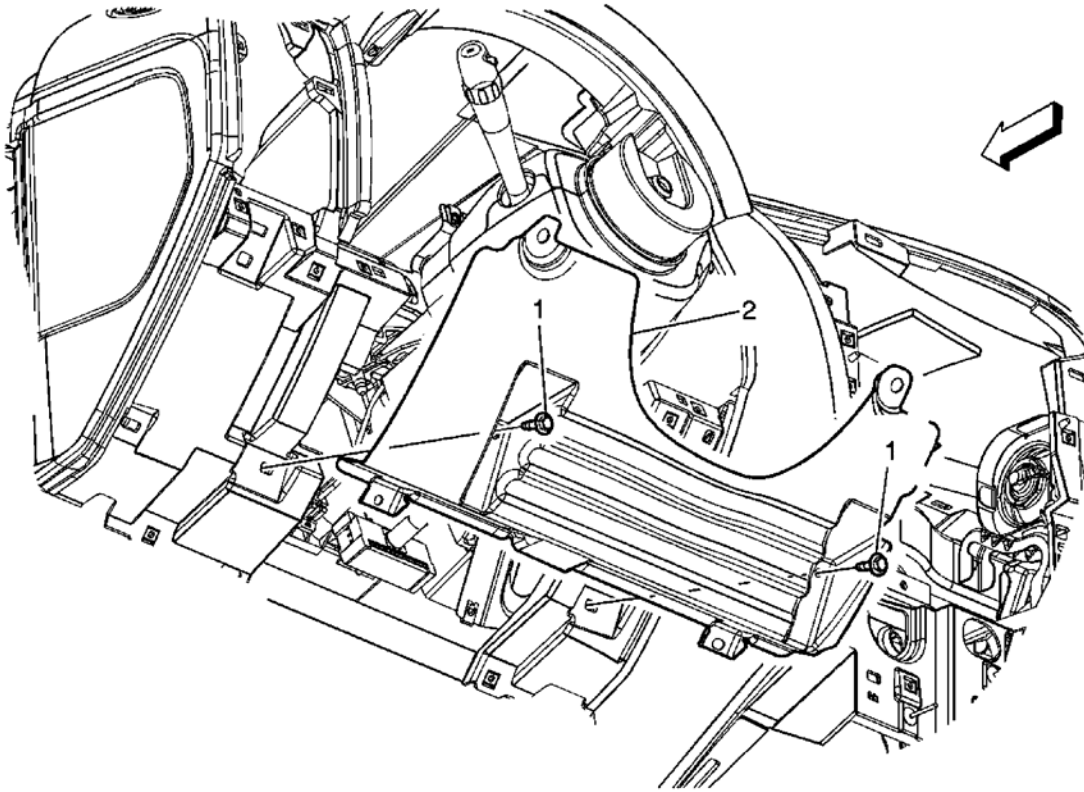
**Fig. 10: View Of Knee Bolster Trim Panel**  
Courtesy of GENERAL MOTORS CORP.

| Callout  | Component Name   |
|--|--|
| <b>NOTE:</b><br>Refer to <u>Fastener Notice</u> .  |  |
| <b>Fastener Tightening Specifications:</b> Refer to <u>Fastener Tightening Specifications</u> .<br><b>Preliminary Procedure:</b> Remove the left insulator panel. Refer to <u>Instrument Panel Insulator Panel Replacement - Left Side</u> . |  |
| 1  | Knee Bolster Trim Panel Screw Cover (Qty: 2)                               |
| 2  | Knee Bolster Trim Panel Screw (Qty: 4)<br><b>Tighten:</b> 9 N.m (80 lb in) |
| 3  | Knee Bolster Trim Panel  |
| 4  | Knee Bolster Retainer Clip (Qty: 3)  |

### KNEE BOLSTER REPLACEMENT

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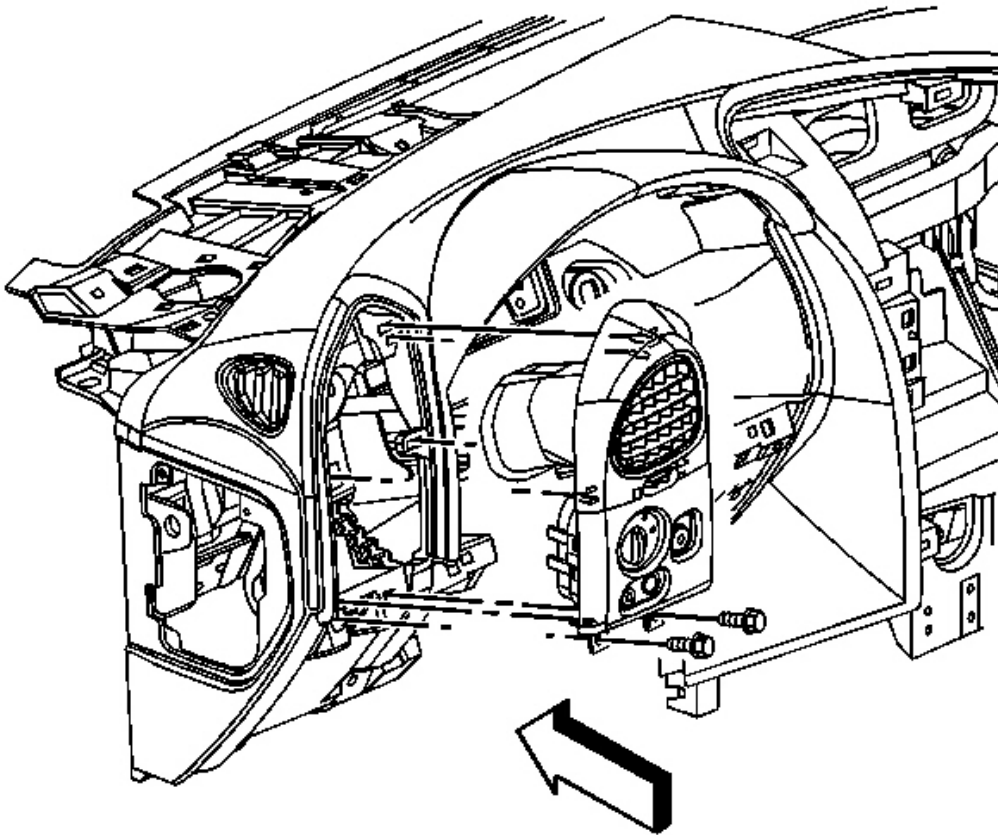
**Fig. 11: View Of Knee Bolster Trim Panel & Bolts**  
Courtesy of GENERAL MOTORS CORP.

| Callout  | Component Name  |
|--|---|
| <b>NOTE:</b><br>Refer to <u>Fastener Notice</u> .  |   |
| <b>Fastener Tightening Specifications:</b> Refer to <u>Fastener Tightening Specifications</u> .                |   |
| <b>Preliminary Procedures</b>  |   |
| 1. Remove the left insulator panel. Refer to <u>Instrument Panel Insulator Panel Replacement - Left Side</u> . |   |
| 2. Remove the knee bolster trim panel. Refer to <u>Driver Knee Bolster Panel Replacement</u> .                 |   |
| 1  | Knee Bolster Bracket Bolts (Qty: 2)<br><b>Tighten:</b> 9 N.m (80 lb in) |
| 2  | Knee Bolster Bracket  |

### INSTRUMENT PANEL ACCESSORY TRIM PLATE REPLACEMENT - LEFT SIDE

### Removal Procedure

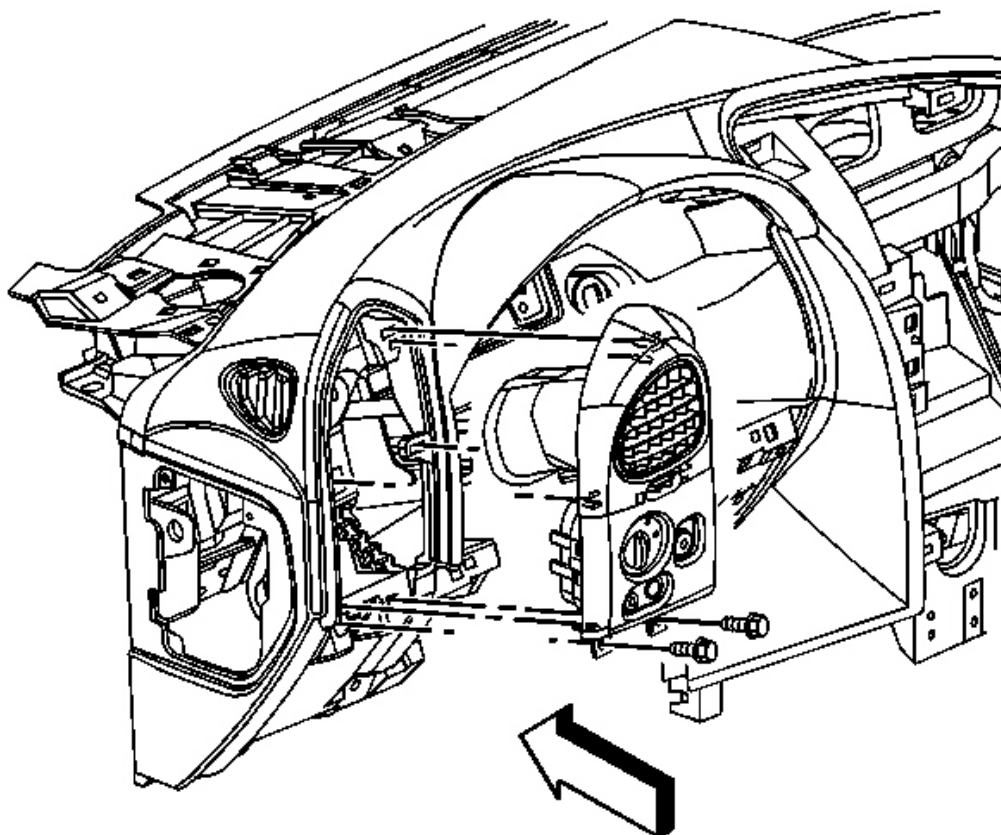
1. Remove the left closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Left Side**.
2. Remove the knee bolster trim panel. Refer to **Driver Knee Bolster Panel Replacement**.



**Fig. 12: View Of Headlamp Trim Plate & Retaining Nuts**  
**Courtesy of GENERAL MOTORS CORP.**

3. Remove the 2 headlamp trim plate retaining nuts.
4. Use a plastic flat bladed tool in order to release the retaining clips.
5. Remove the headlamp trim plate from the instrument panel (I/P).

### Installation Procedure



**Fig. 13: View Of Headlamp Trim Plate & Retaining Nuts**  
Courtesy of GENERAL MOTORS CORP.

1. Install the headlamp trim plate to the I/P, ensuring the retaining clips are fully seated.

**NOTE:** Refer to Fastener Notice .

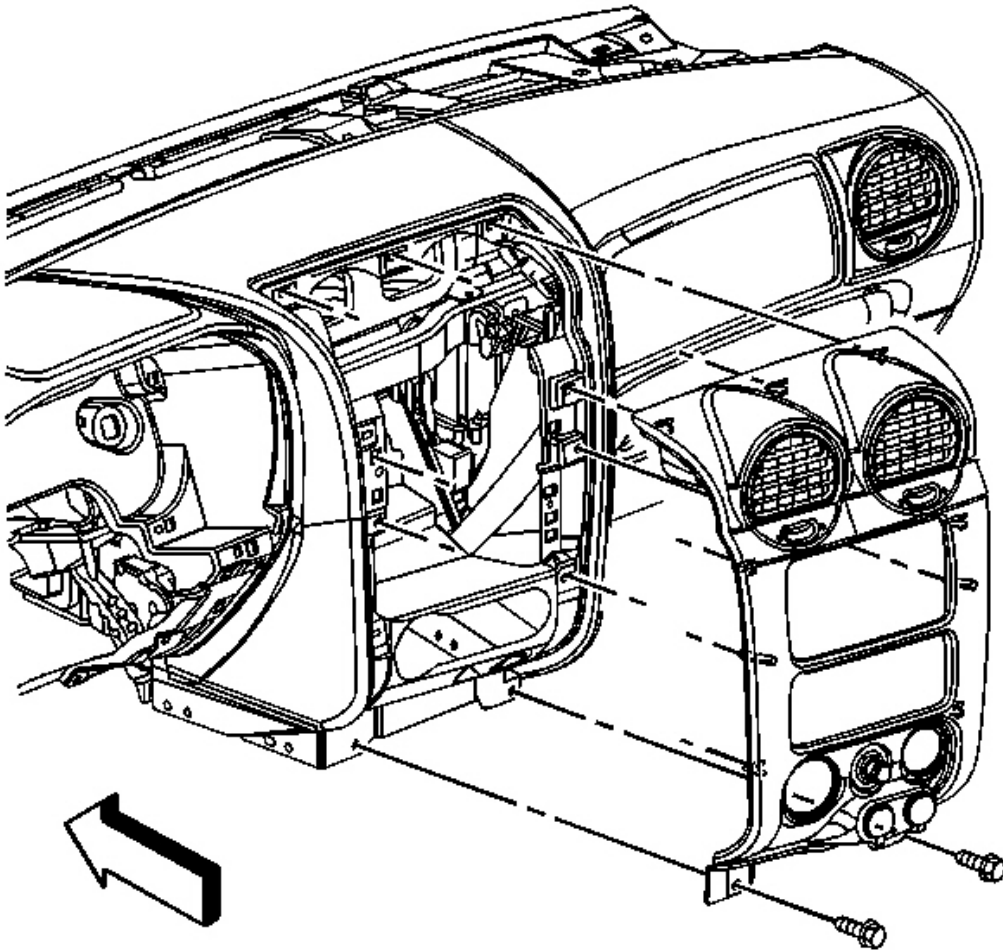
2. Install the 2 headlamp trim plate retaining screws.

**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

3. Install the knee bolster trim panel. Refer to Driver Knee Bolster Panel Replacement.
4. Install the left closeout/insulator panel. Refer to Instrument Panel Insulator Panel Replacement - Left Side.

**Removal Procedure**

1. Remove the center console. Refer to **Console Replacement**.
2. Remove the center lower closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement (GMC/Chevrolet)**.



**Fig. 14: View Of Trim Plate - Instrument Panel (I/P) Accessory**  
Courtesy of GENERAL MOTORS CORP.

3. Remove the lower trim plate retaining screws.
4. Starting at the bottom of the trim plate, release the 2 lower retaining clips and the 2 intermediate retaining clips.
5. Release the 3 upper retaining clips.



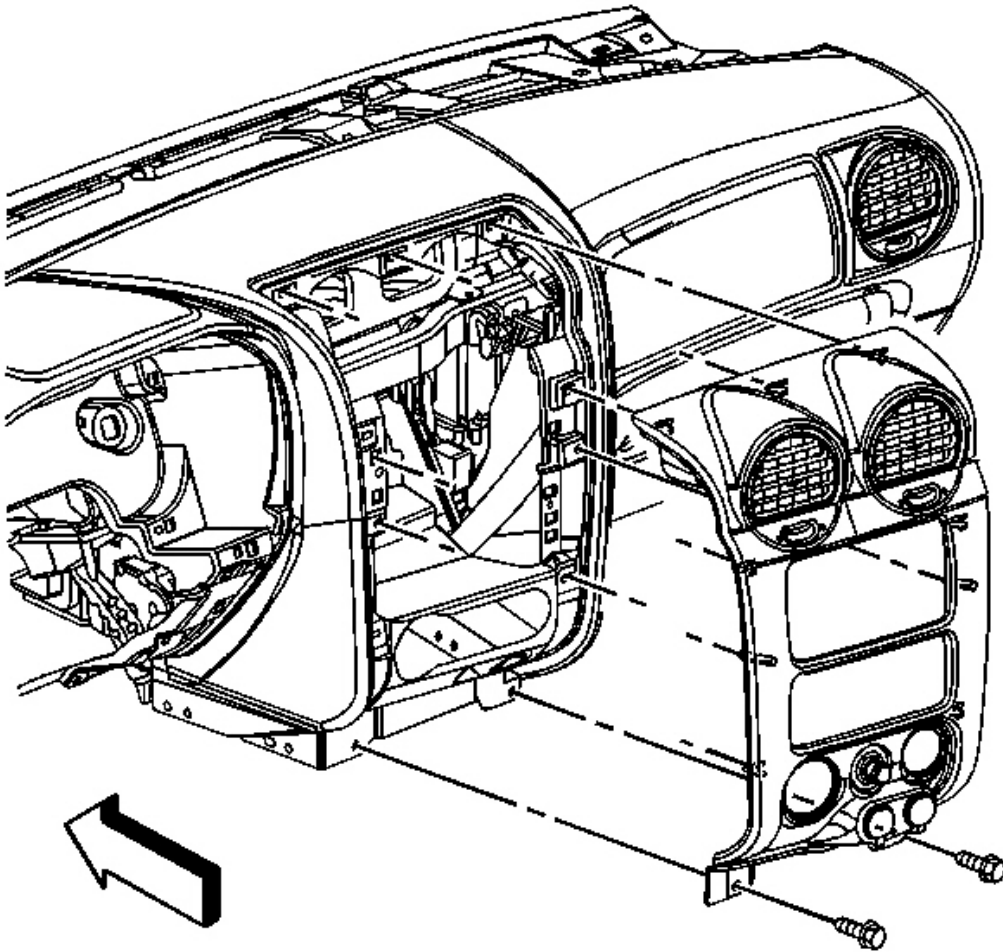
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6. Disconnect the electrical connectors as necessary.
7. If replacing the trim plate, perform the following steps:
  1. If equipped, remove the transfer case shift control switch. Refer to **Transfer Case Shift Control Switch Replacement (GMC, Buick)** .
  2. Remove the rear windshield wiper switch. Refer to **Rear Window Wiper and Washer Switch Replacement** .
  3. If equipped, remove the cigar lighter and 12-volt power supply. Refer to **12-Volt Accessory Power Receptacle Replacement** .

### Installation Procedure

1. If installing a new trim plate, perform the following steps:
  1. If equipped, install the cigar lighter or 12-volt power supply outlets. Refer to **12-Volt Accessory Power Receptacle Replacement** .
  2. Install the rear windshield wiper switch. Refer to **Rear Window Wiper and Washer Switch Replacement** .
  3. If equipped, install the transfer case shift control switch. Refer to **Transfer Case Shift Control Switch Replacement (GMC, Buick)** .



**Fig. 15: View Of Trim Plate - Instrument Panel (I/P) Accessory**  
Courtesy of GENERAL MOTORS CORP.

2. Connect the electrical connectors as necessary.
3. Install the trim plate to the IP. Ensure that all of the retaining clips are properly seated.

**NOTE:** Refer to Fastener Notice .

4. Install the lower trim plate retaining screws.

**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

5. Install the center closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement**

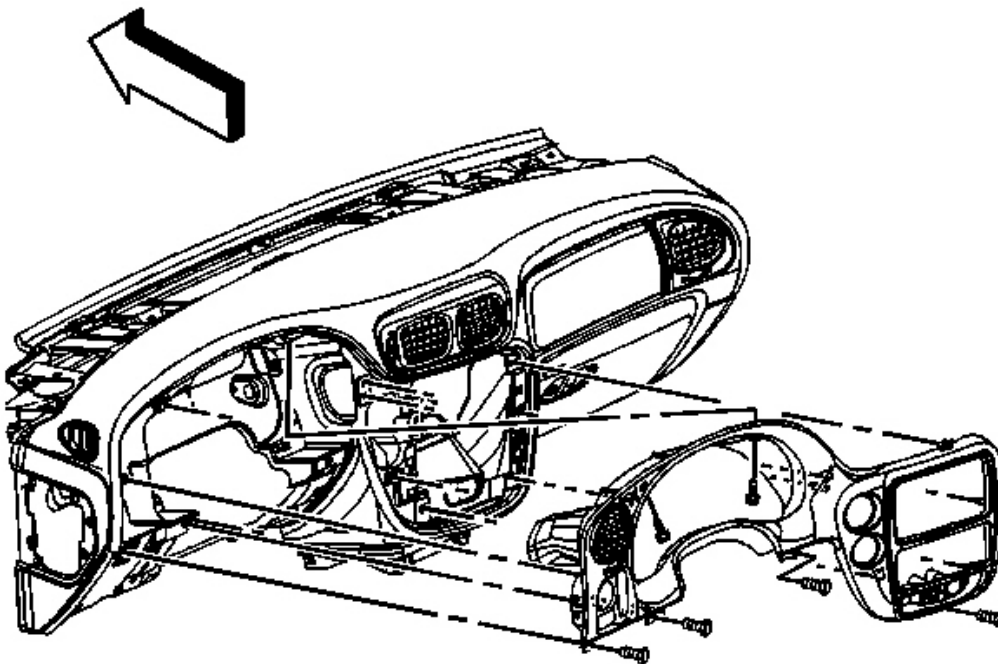
**(GMC/Chevrolet).**

6. Install the center console. Refer to **Console Replacement**.

**INSTRUMENT PANEL CLUSTER TRIM PLATE BEZEL REPLACEMENT (CHEVROLET)**

**Removal Procedure**

1. Tilt the steering wheel to the full down position.
2. Remove the left closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Left Side**.
3. Remove the knee bolster trim panel. Refer to **Driver Knee Bolster Panel Replacement**.



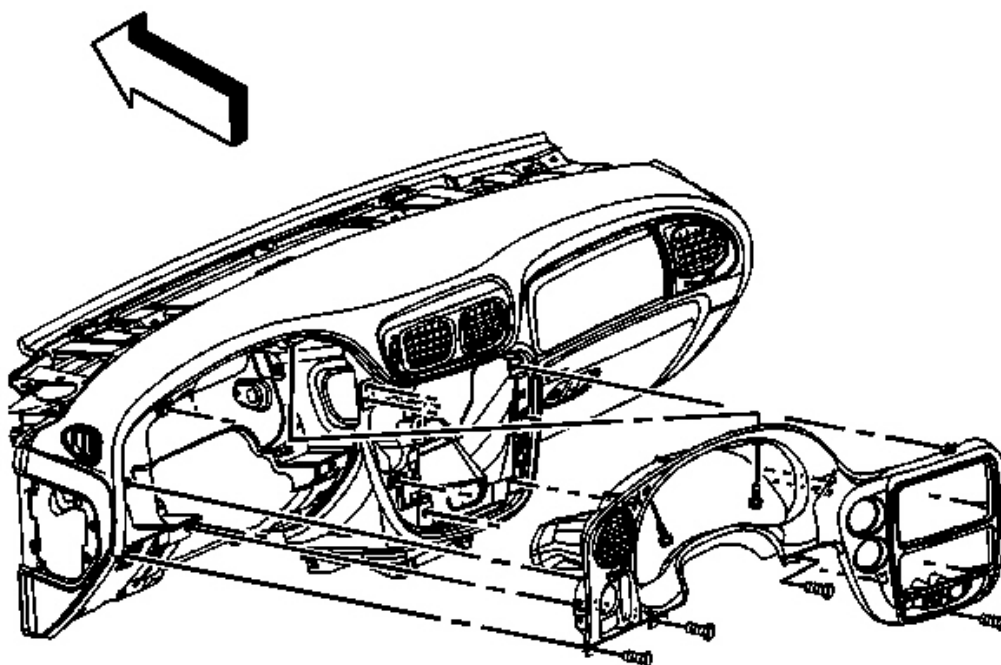
**Fig. 16: View Of Instrument Panel (I/P) Cluster Bezel (Chevrolet)**  
**Courtesy of GENERAL MOTORS CORP.**

4. Remove the screws retaining the bezel to the instrument panel.
5. Remove the bezel from the instrument panel.
6. If equipped, remove the transfer case shift control switch. Refer to **Transfer Case Shift Control Switch Replacement (GMC, Buick)**.
7. Remove the rear wiper washer switch. Refer to **Rear Window Wiper and Washer Switch**

**Replacement** .

8. If equipped, remove the cigar lighter or 12-volt power supply outlets. Refer to **12-Volt Accessory Power Receptacle Replacement** .
9. Remove the bezel from the vehicle.

**Installation Procedure**



**Fig. 17: View Of Instrument Panel (I/P) Cluster Bezel (Chevrolet)**  
Courtesy of GENERAL MOTORS CORP.

1. If equipped, install the cigar lighter or 12-volt power supply outlets. Refer to **12-Volt Accessory Power Receptacle Replacement** .
2. Install the rear wiper washer switch. Refer to **Rear Window Wiper and Washer Switch Replacement** .
3. If equipped, install the transfer case shift control switch. Refer to **Transfer Case Shift Control Switch Replacement (GMC, Buick)** .
4. Install the bezel to the instrument panel.

**NOTE:** Refer to **Fastener Notice** .

5. Install the screws retaining the bezel to the instrument panel.

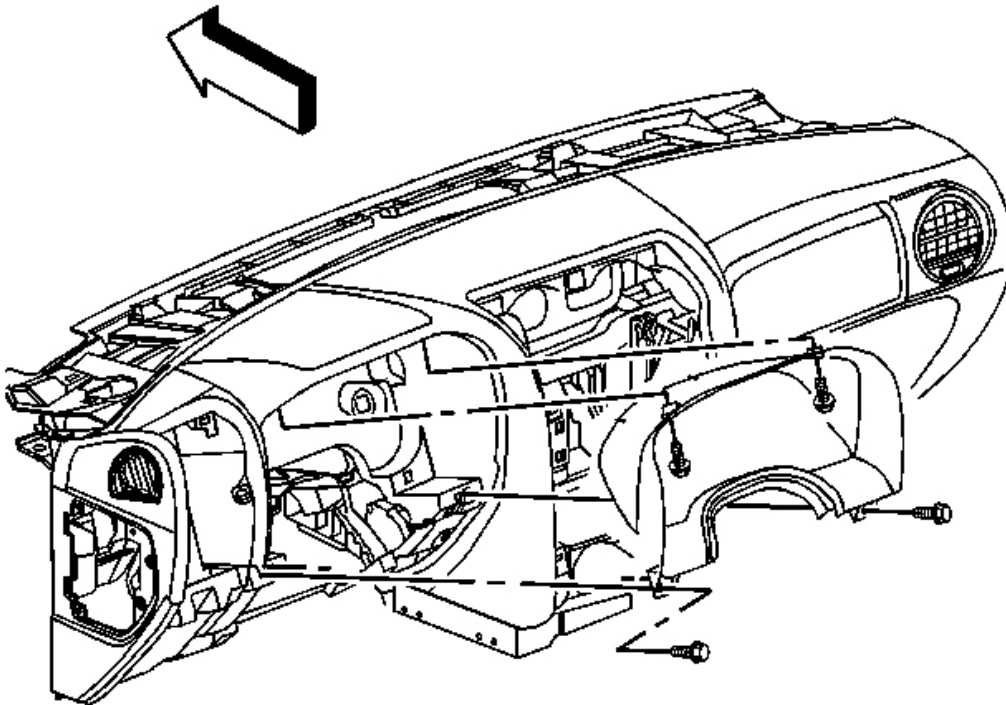
**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

6. Install the knee bolster trim panel. Refer to **Driver Knee Bolster Panel Replacement**.
7. Install the left closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Left Side**.

## **INSTRUMENT PANEL CLUSTER TRIM PLATE BEZEL REPLACEMENT (GMC, BUICK)**

### **Removal Procedure**

1. Tilt the steering wheel to the full down position.
2. Remove the left closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Left Side**.
3. Remove the knee bolster trim panel. Refer to **Driver Knee Bolster Panel Replacement**.

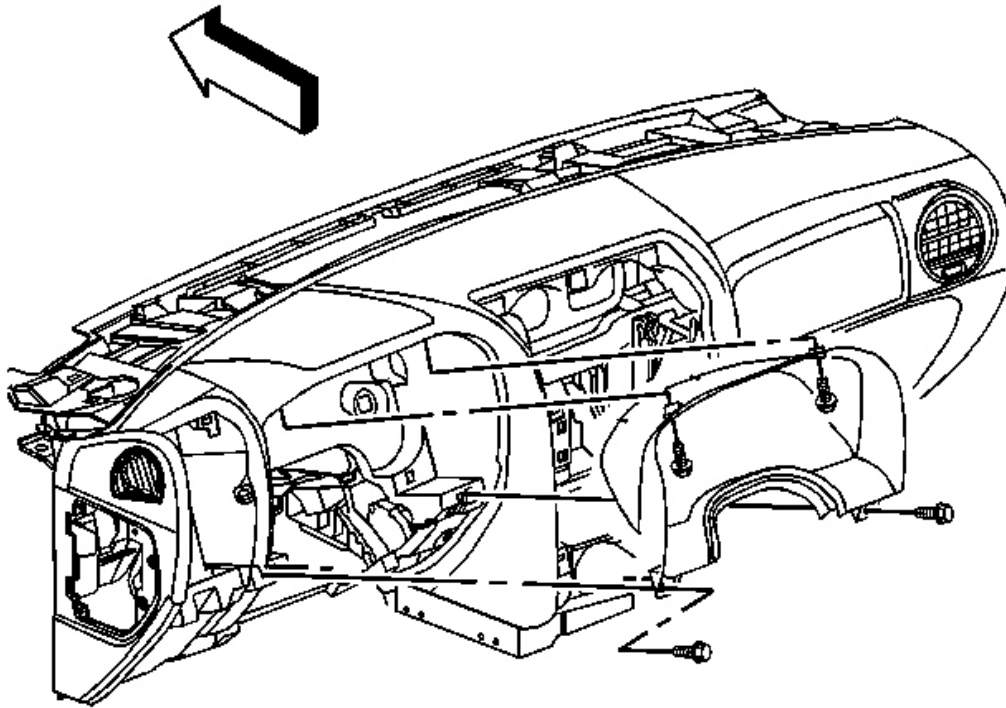


**Fig. 18: Identifying Knee Bolster Trim Panel & Retaining Screws**  
Courtesy of GENERAL MOTORS CORP.

4. Remove the screws that retain the bezel to the instrument panel.

5. Remove the bezel from the instrument panel.

#### Installation Procedure



**Fig. 19: Identifying Knee Bolster Trim Panel & Retaining Screws**  
Courtesy of GENERAL MOTORS CORP.

1. Install the bezel to the instrument panel.

**NOTE:** Refer to Fastener Notice .

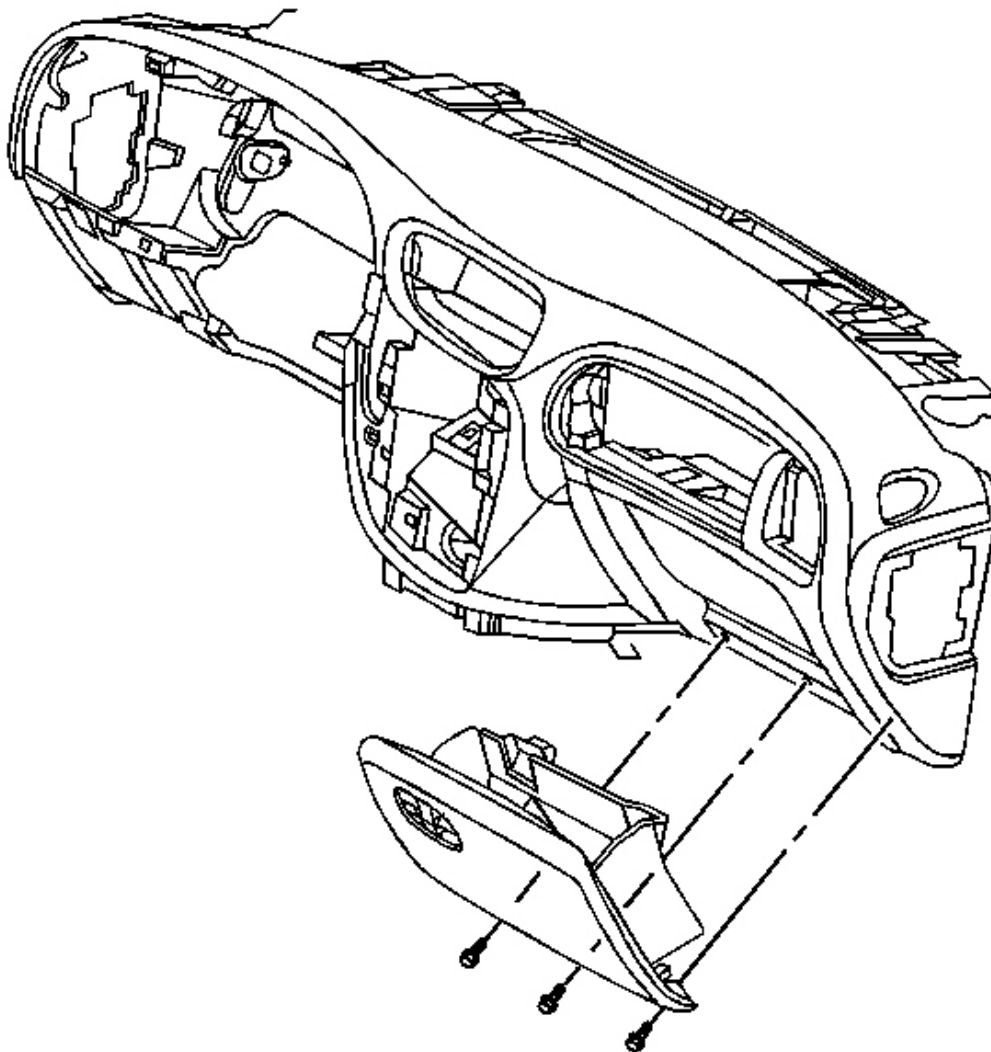
2. Install the screws that retain the bezel to the instrument panel.

**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

3. Install the knee bolster trim panel. Refer to Driver Knee Bolster Panel Replacement.
4. Install the left closeout/insulator panel. Refer to Instrument Panel Insulator Panel Replacement - Left Side.

## **INSTRUMENT PANEL COMPARTMENT DOOR REPLACEMENT**

### **Removal Procedure**

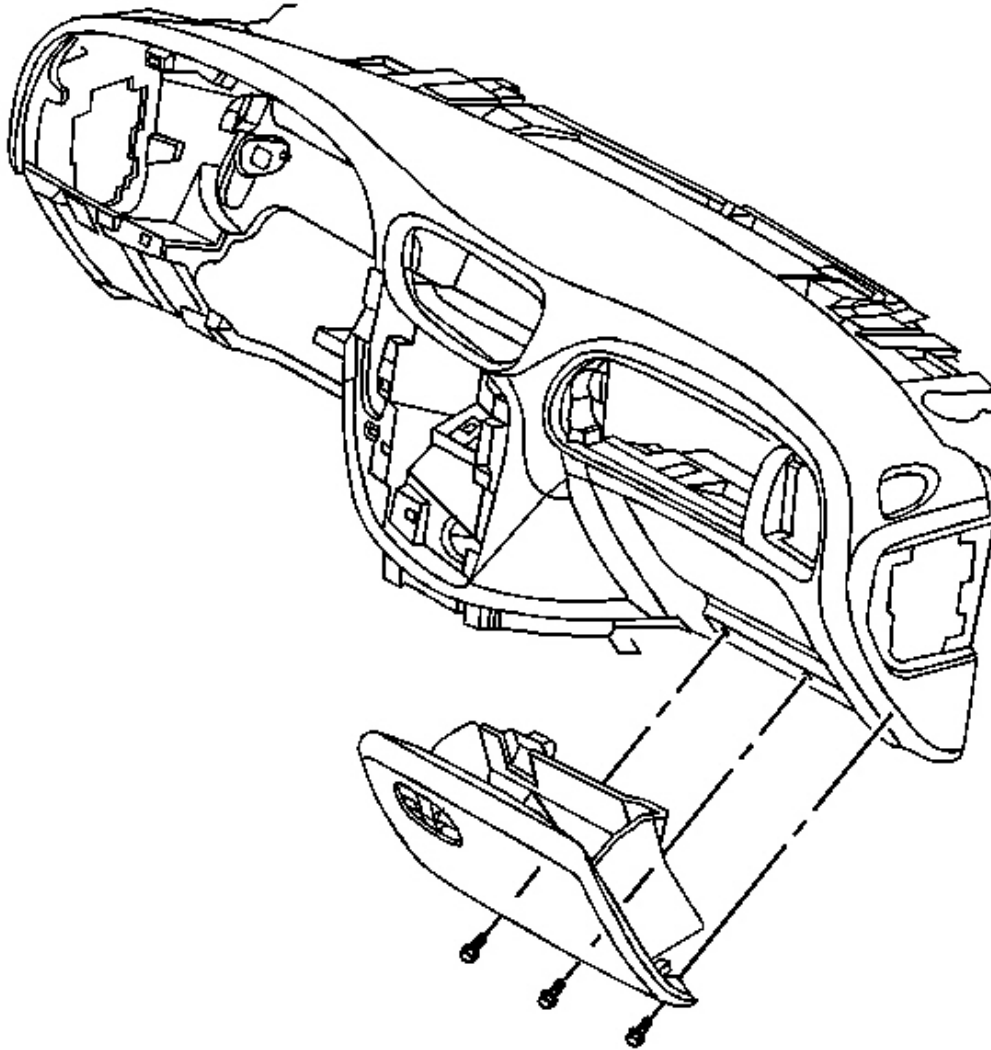


**Fig. 20: View Of Storage Compartment & Retaining Screws**  
Courtesy of GENERAL MOTORS CORP.

1. Remove the right closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Right Side**.
2. Remove the 3 storage compartment retaining screws.

3. Remove the storage compartment from the instrument panel (I/P).

**Installation Procedure**



**Fig. 21: View Of Storage Compartment & Retaining Screws**  
**Courtesy of GENERAL MOTORS CORP.**

1. Position the storage compartment to the I/P.

**NOTE:**      **Refer to Fastener Notice .**



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2. Install the 3 screws.

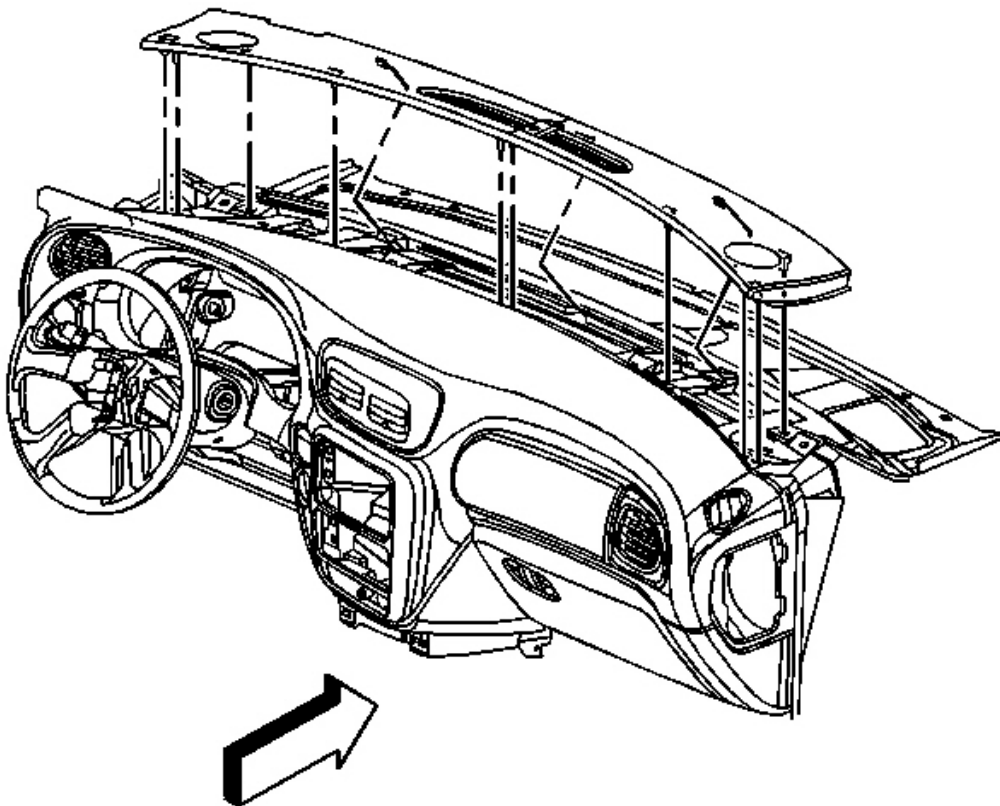
**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

3. Install the right closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Right Side**.

### INSTRUMENT PANEL UPPER TRIM PAD REPLACEMENT

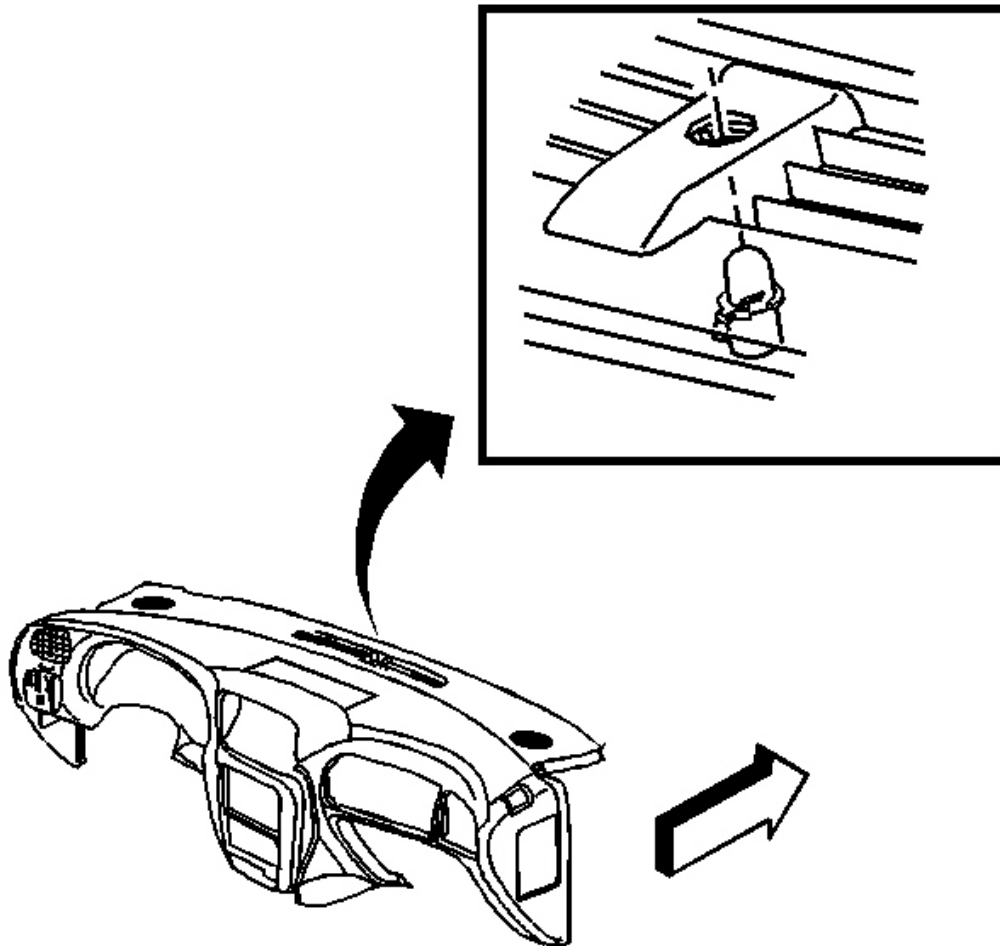
#### Removal Procedure

1. Remove the windshield pillar garnish moldings. Refer to **Windshield Pillar Garnish Molding Replacement**.



**Fig. 22: View Of Trim Pad Removed (I/P) Upper)**  
Courtesy of GENERAL MOTORS CORP.

2. Starting at the outboard edges, release the trim pad retaining clips.

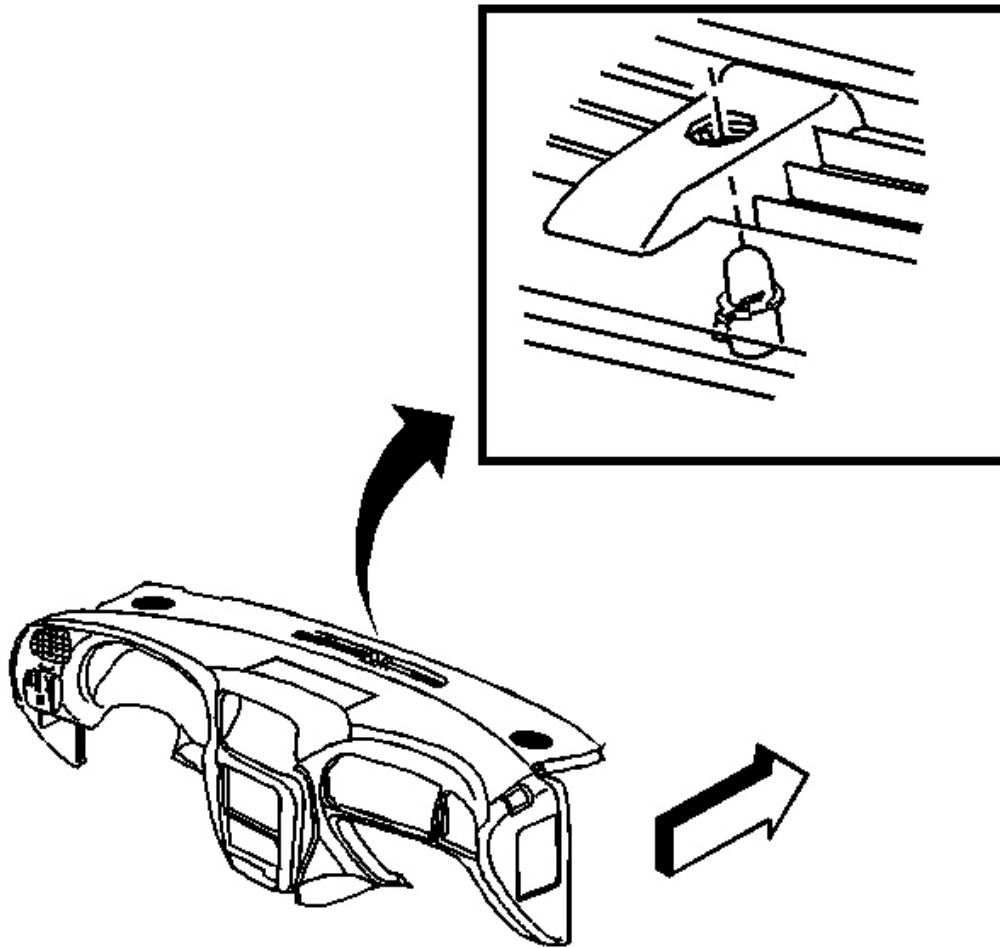


**Fig. 23: Locating Ambient Light Sensor**  
Courtesy of GENERAL MOTORS CORP.

3. Rotate the ambient light sensor counterclockwise 1/4 turn in order to release the sensor from the trim pad.
4. Remove the trim pad from the vehicle.

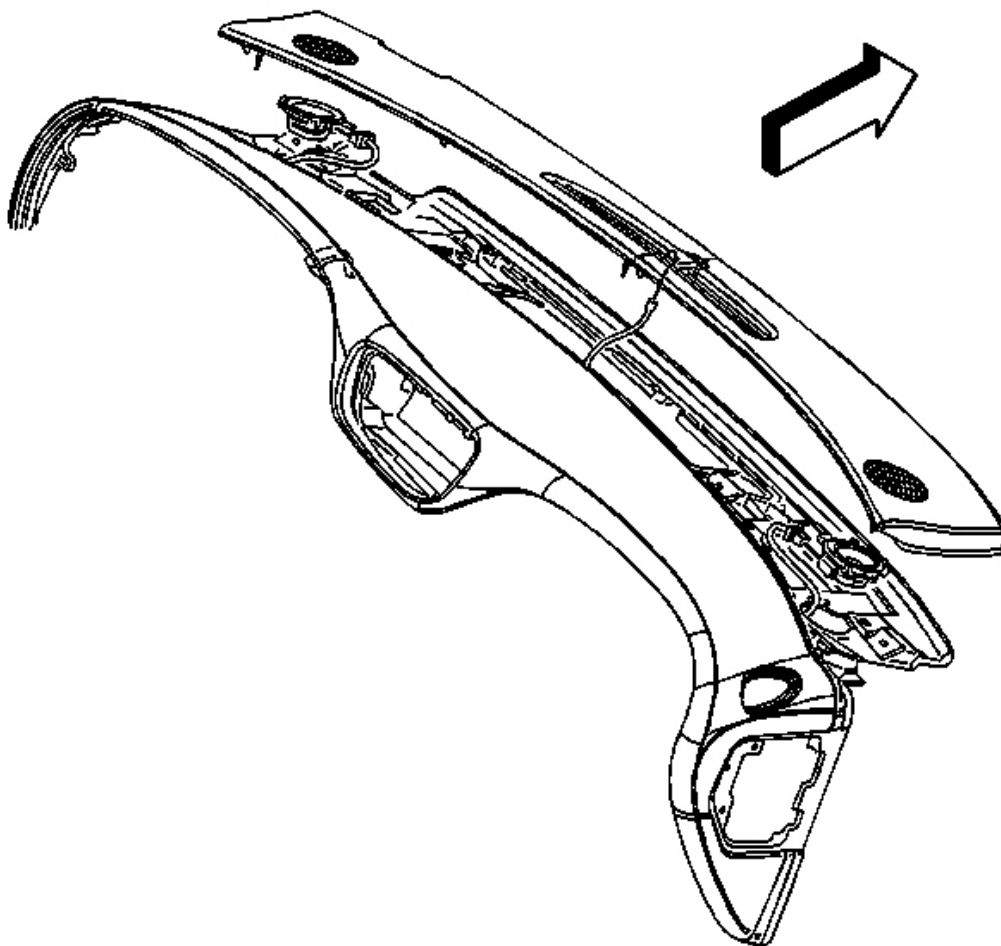
**IMPORTANT: Cover the windshield defrost vents with clean shop rags.**

5. Disconnect the electrical connector from the ambient light sensor and retain the sensor for installation.



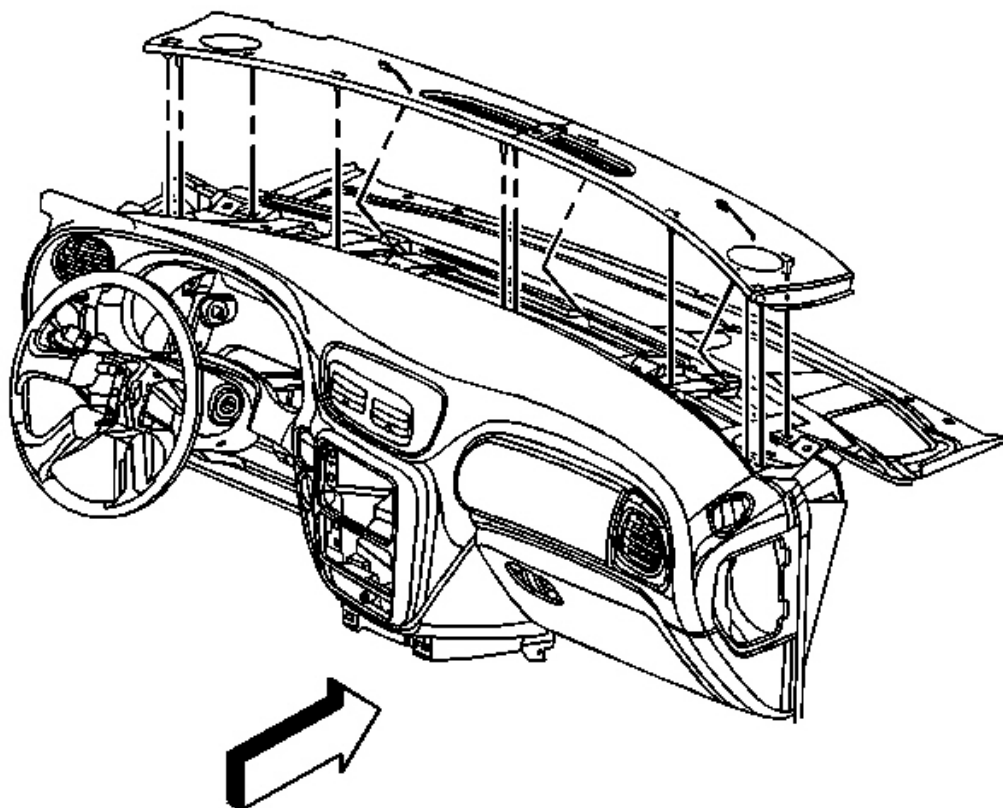
**Fig. 24: Locating Ambient Light Sensor**  
**Courtesy of GENERAL MOTORS CORP.**

1. In order to install the ambient light sensor to the trim pad, rotate the sensor clockwise 1/4 turn ensuring the retaining tabs are fully seated.



**Fig. 25: View Of Instrument Panel (I/P) Upper Trim Pad**  
Courtesy of GENERAL MOTORS CORP.

2. Position the trim pad to the instrument panel (I/P).
3. Connect the electrical connector to the ambient light sensor.
4. Remove the shop rags from the windshield defrost vents.



**Fig. 26: View Of Trim Pad Removed (I/P) Upper)**  
**Courtesy of GENERAL MOTORS CORP.**

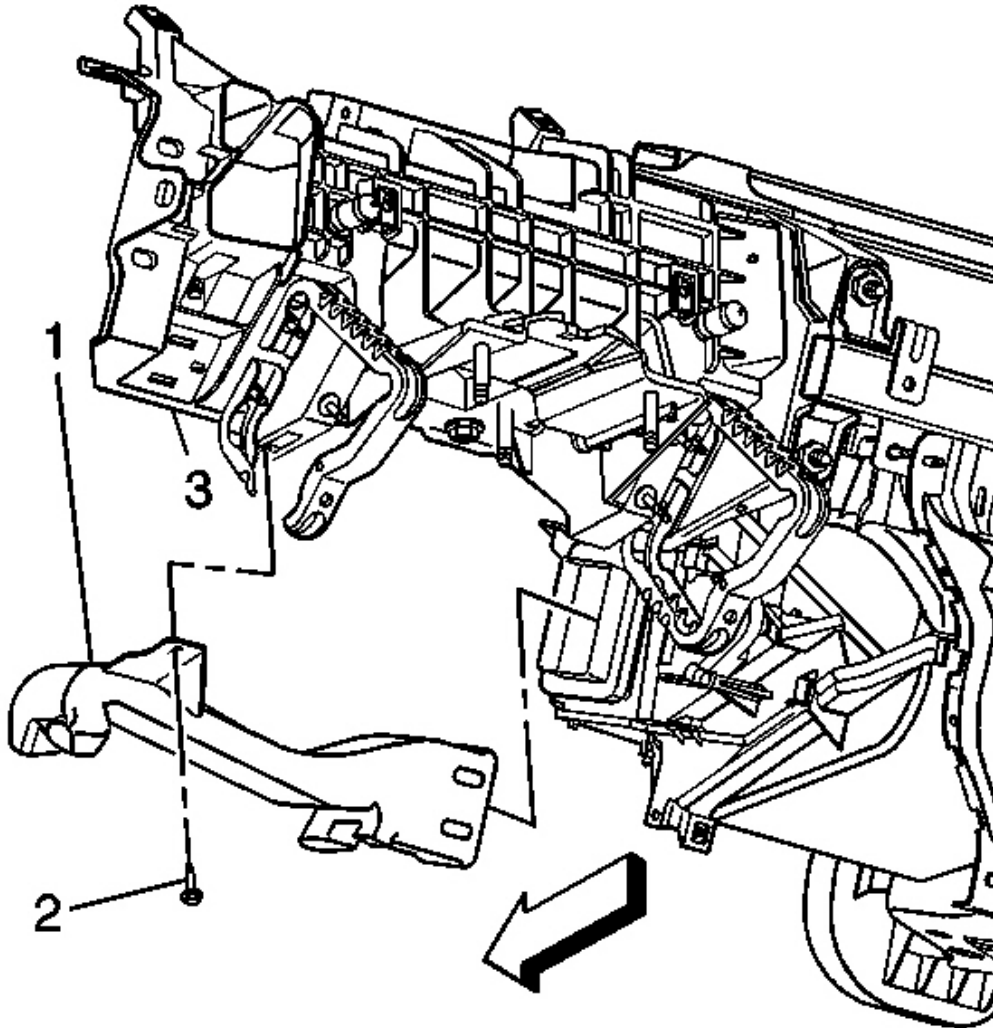
5. Align the locating stems to the I/P substrate.
6. Install the trim pad by seating the retaining clips to the I/P substrate.
7. Install the windshield pillar garnish moldings. Refer to **Windshield Pillar Garnish Molding Replacement** .

## **INSTRUMENT PANEL ASSEMBLY REPLACEMENT**

### **Removal Procedure**

1. Disable the SIR system. Refer to **SIR Disabling and Enabling** .
2. Remove the left closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Left Side**.
3. Remove the knee bolster trim panel. Refer to **Driver Knee Bolster Panel Replacement**.

4. Remove the knee bolster. Refer to **Knee Bolster Replacement**.



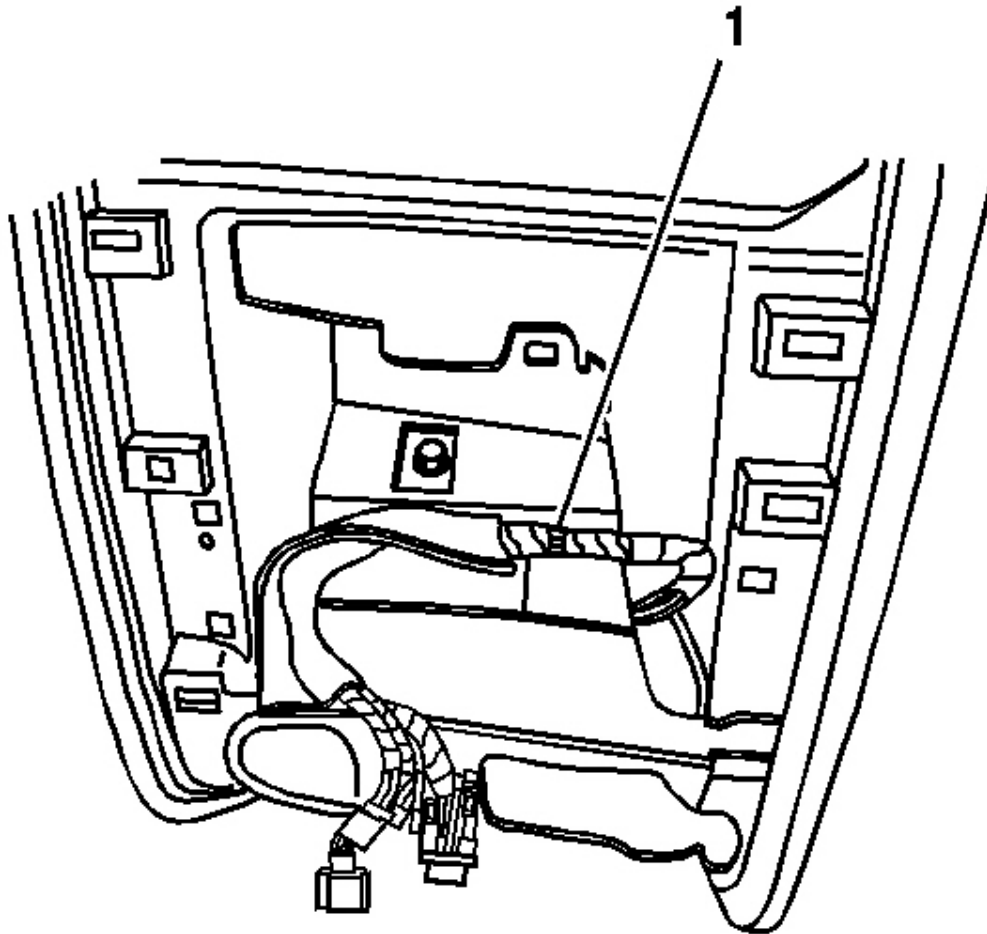
**Fig. 27: View Of Left Side HVAC Floor Air Outlet Duct**  
Courtesy of GENERAL MOTORS CORP.

5. Remove the left HVAC push pin (2).
6. Remove the left HVAC floor duct (1).
7. Fully lower the steering column. Refer to **Steering Column Replacement**.
8. Remove the center console. Refer to **Console Replacement**.

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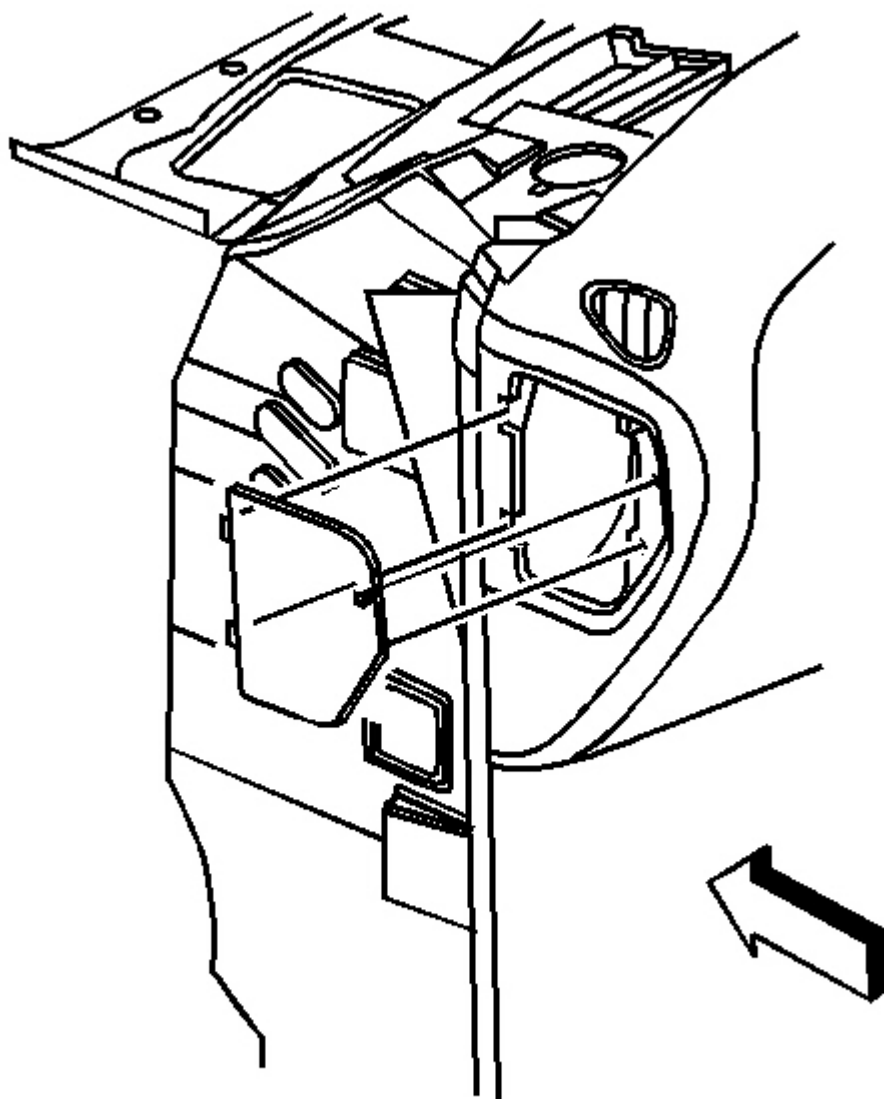
9. Remove the instrument panel (I/P) lower sound insulator panel, GMC or Chevrolet only. Refer to **Instrument Panel Insulator Panel Replacement (GMC/Chevrolet)**.
10. Remove the I/P accessory trim plate, GMC or Oldsmobile only. Refer to **Instrument Panel Accessory Trim Plate Replacement (GMC)**.
11. Remove the I/P cluster bezel, Chevrolet only. Refer to **Instrument Panel Cluster Trim Plate Bezel Replacement (Chevrolet)** or **Instrument Panel Cluster Trim Plate Bezel Replacement (GMC, Buick)**.
12. Remove the I/P cluster. Refer to **Instrument Cluster Replacement**.
13. Remove the right closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Right Side**.
14. Remove the I/P storage compartment door. Refer to **Instrument Panel Compartment Door Replacement**.
15. Remove the radio. Refer to **Radio Replacement**.
16. Remove the HVAC control module. Refer to **HVAC Control Module Replacement**.



**Fig. 28: View Of HVAC Control Module Wire Harness Attachment**  
Courtesy of GENERAL MOTORS CORP.

17. Remove the HVAC control module wire harness attachment (1) from the I/P substrate.





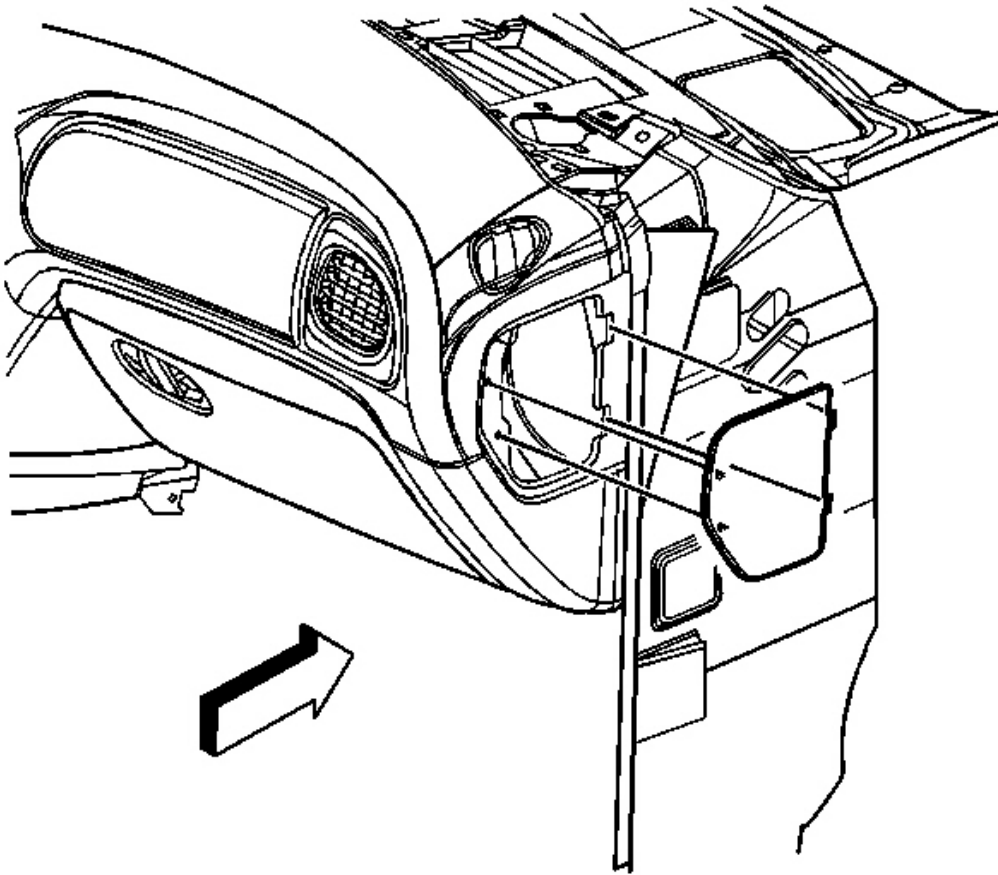
**Fig. 29: View Of Left IP Access Cover Removed**  
Courtesy of GENERAL MOTORS CORP.

18. Remove the left I/P access cover.
19. Remove the headlamp switch. Refer to **Headlamp Switch Replacement** .
20. If replacing the I/P, remove the headlamp switch bezel. Refer to **Instrument Panel Accessory Trim Plate Replacement - Left Side**.

## 2008 Isuzu Ascender LS

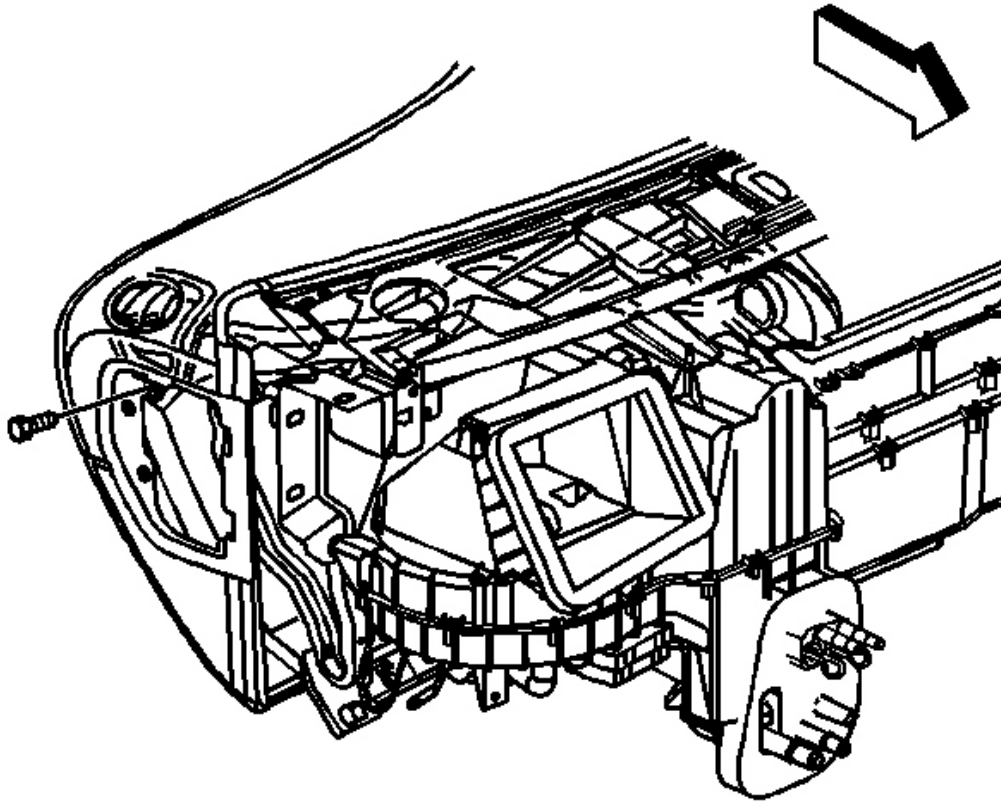
2008 Accessories & Equipment Instrument Panel & Console Trim - Ascender, Envoy & Trailblazer

21. Remove the windshield garnish moldings. Refer to **Windshield Pillar Garnish Molding Replacement** .
22. Remove the trim pad. Refer to **Instrument Panel Upper Trim Pad Replacement**.
23. Remove the front upper speakers, if equipped. Refer to **Front Upper Speaker Replacement** .



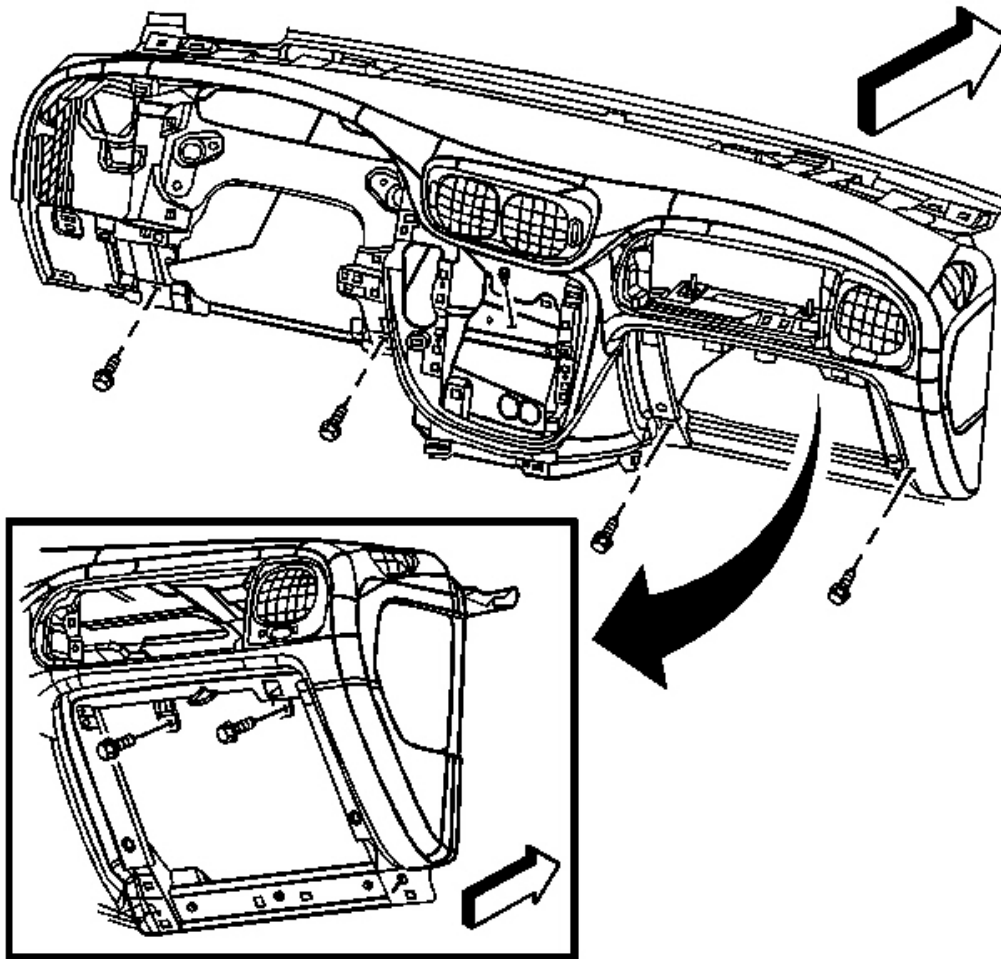
**Fig. 30: Identifying Right I/P Access Cover**  
Courtesy of GENERAL MOTORS CORP.

24. Remove the right I/P access cover.



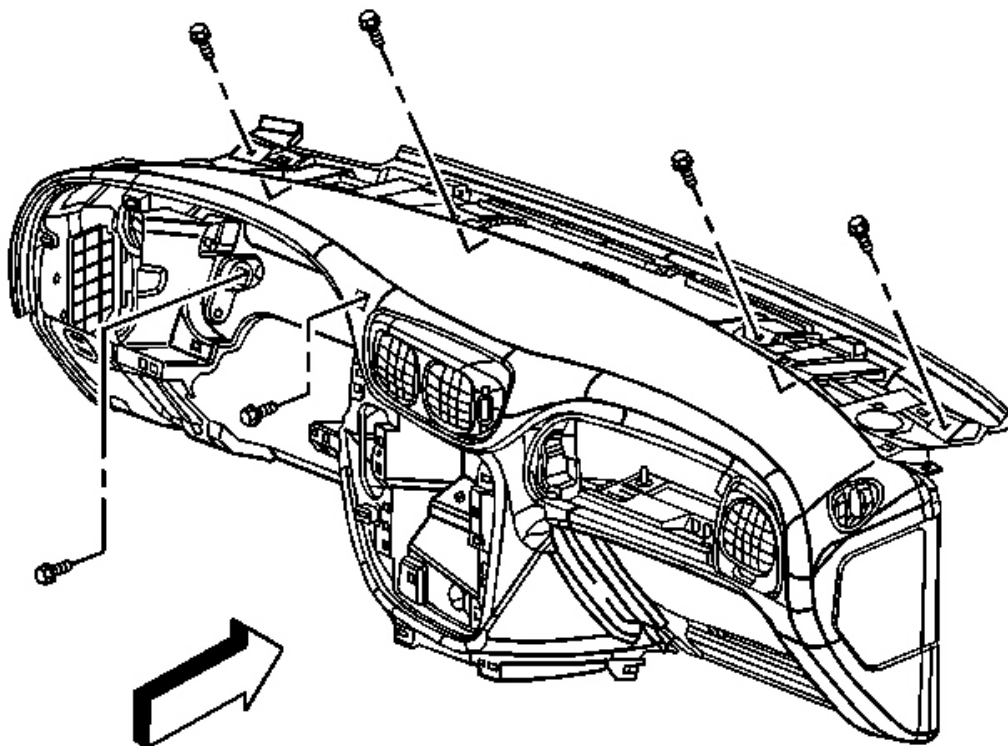
**Fig. 31: Identifying Side Window Defogger Outlet Screw**  
**Courtesy of GENERAL MOTORS CORP.**

25. Remove the side window defogger outlet screw.



**Fig. 32: Locating Lower Instrument Panel Bolts**  
Courtesy of GENERAL MOTORS CORP.

26. Remove the bolts securing the lower portion of the instrument panel to the vehicle.



**Fig. 33: View Of Middle & Upper Instrument Panel Bolts**  
**Courtesy of GENERAL MOTORS CORP.**

27. Remove the bolts that secure the middle and upper portion of the instrument panel to the vehicle.
28. With the aid of an assistant, lift up from the bottom of the instrument panel in order to release the I/P from the positioning locators.
29. Remove the instrument panel from the vehicle.
30. Place the I/P on a clean prepared surface.
31. If replacing the I/P, remove the passenger inflatable restraint I/P module. Refer to **Inflatable Restraint Instrument Panel Module Replacement** .
32. If replacing the I/P, remove the air distribution duct vents from the instrument panel. Refer to **Air Distributor Duct Replacement** .

#### **Installation Procedure**

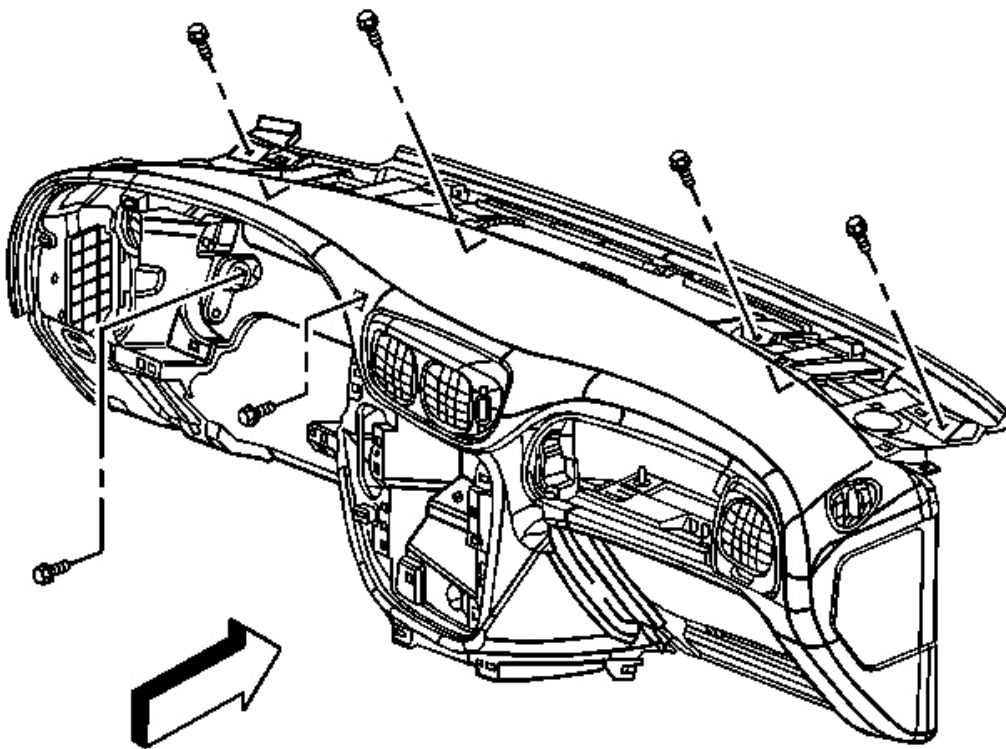
1. If replacing the I/P, install the air distribution duct vents to the instrument panel. Refer to **Air Distributor Duct Replacement** .
2. If replacing the I/P, install the passenger inflatable restraint module to the instrument panel. Refer to

**Inflatable Restraint Instrument Panel Module Replacement .**

3. With the aid of an assistant, install the instrument panel to the vehicle.

**IMPORTANT:** Ensure the wiring harnesses and electrical connectors are not pinched behind the instrument panel and are positioned for proper connection.

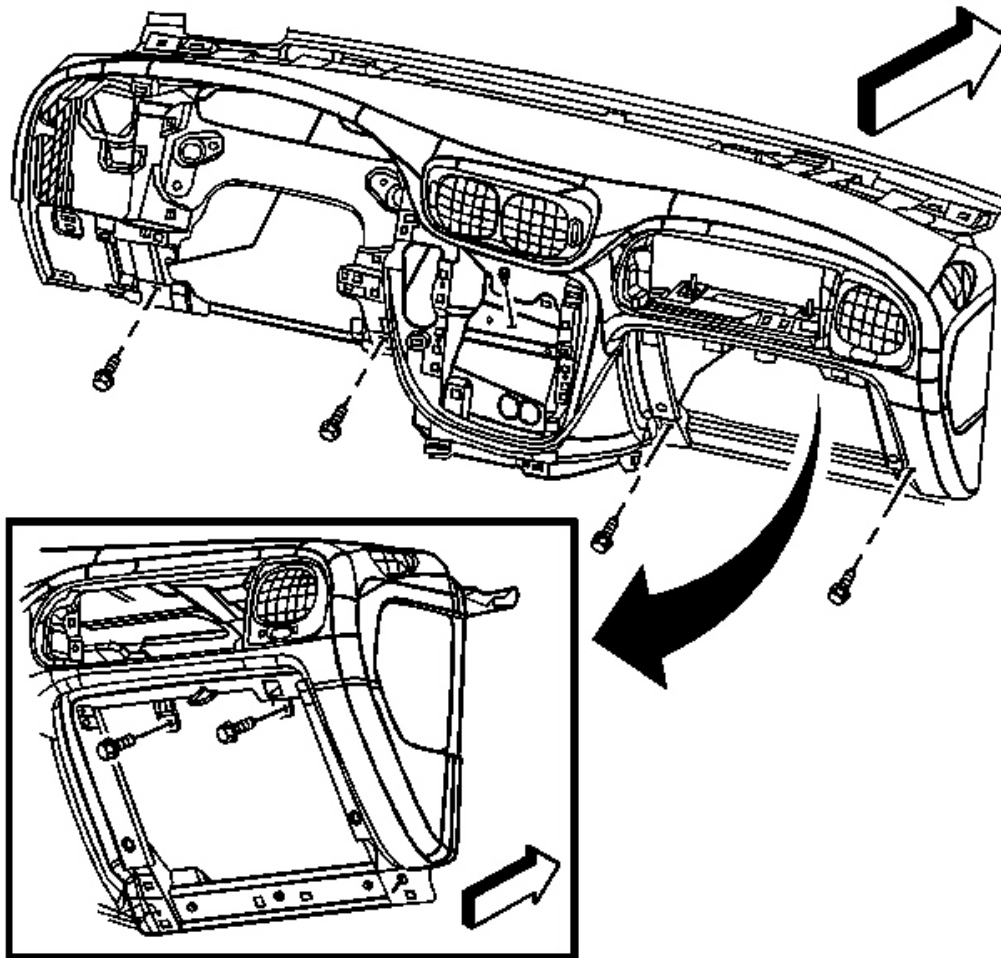
4. Fully seat the instrument panel to the positioning locators.



**Fig. 34: View Of Middle & Upper Instrument Panel Bolts**  
Courtesy of GENERAL MOTORS CORP.

**IMPORTANT:** Do not tighten the I/P retaining bolts until all of the bolts have been loosely installed.

5. Install the bolts securing the middle and upper portion of the instrument panel to the vehicle.



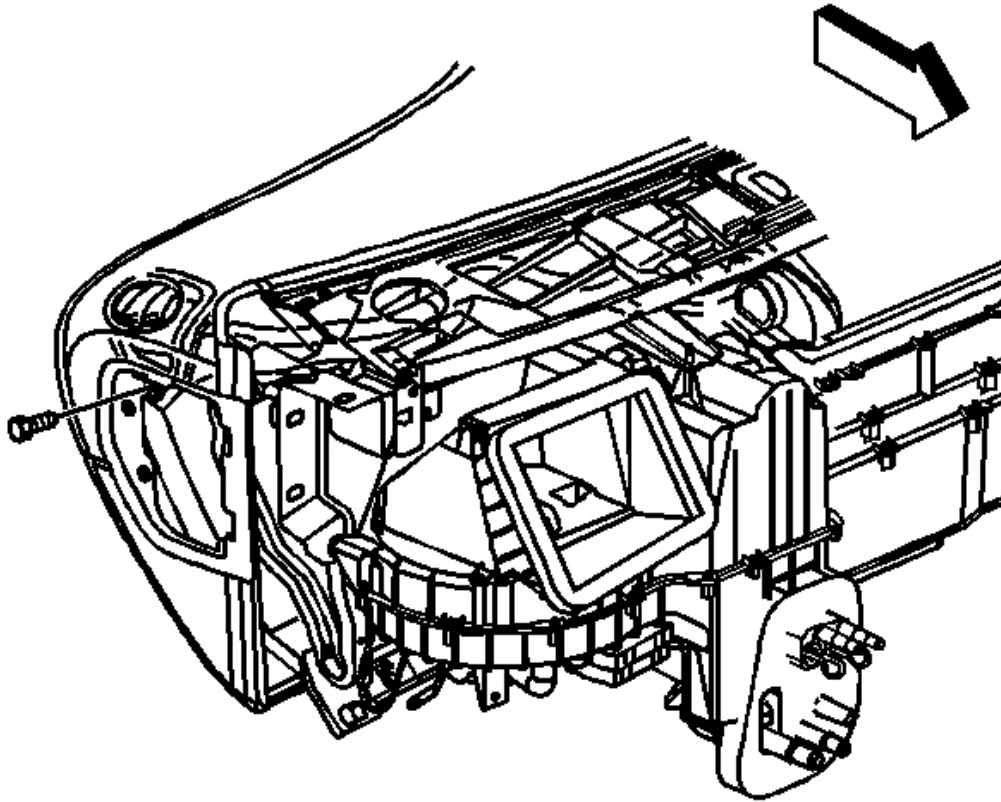
**Fig. 35: Locating Lower Instrument Panel Bolts**  
Courtesy of GENERAL MOTORS CORP.

6. Install the bolts that secure the lower portion of the instrument panel to the vehicle.

**NOTE:** Refer to Fastener Notice .

7. Complete the installation of all of the bolts that retain the I/P to the vehicle.

**Tighten:** Tighten the bolts to 7 N.m (62 lb in).

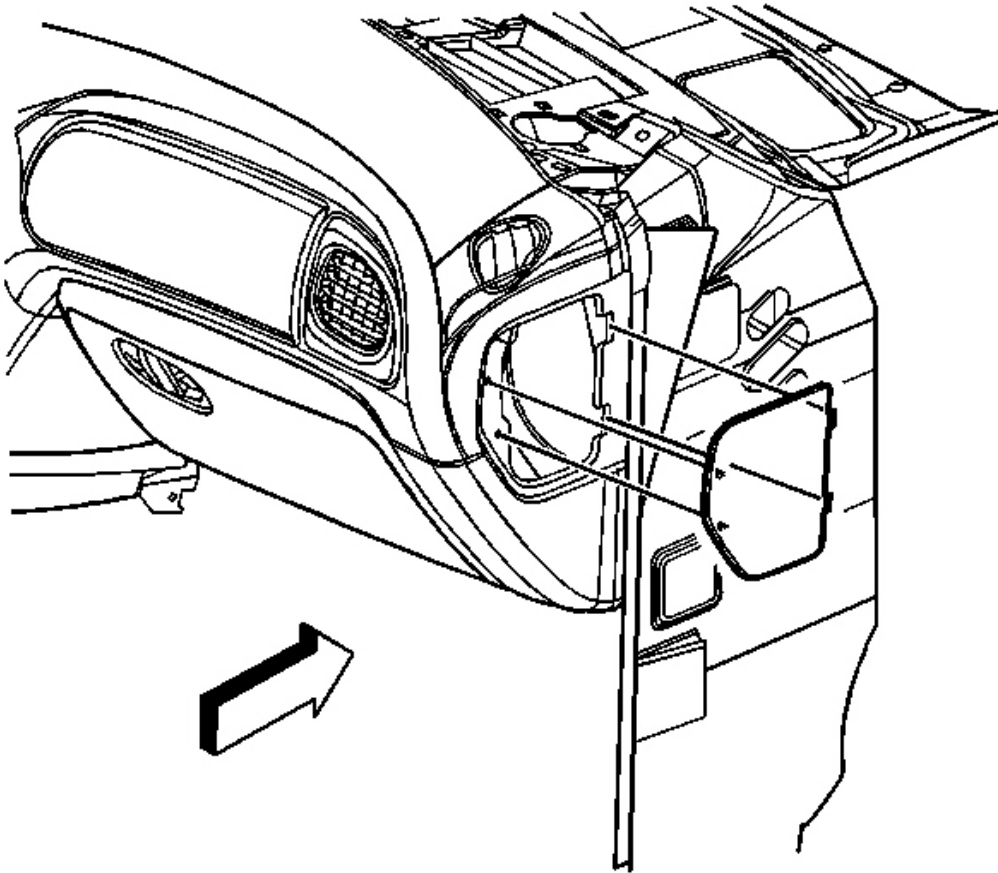


**Fig. 36: Identifying Side Window Defogger Outlet Screw**  
Courtesy of GENERAL MOTORS CORP.

8. Install the side window defogger outlet screw.

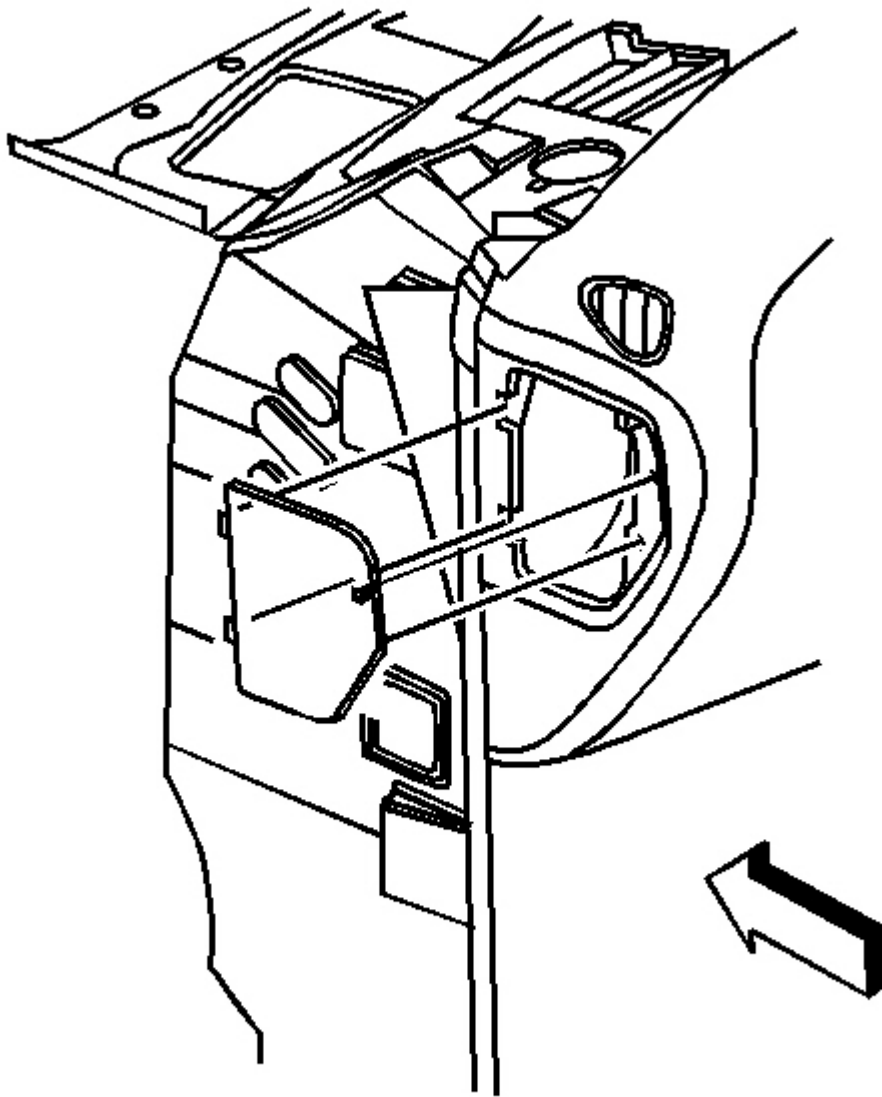
**Tighten:** Tighten the screw to 2.5 N.m (22 lb in).





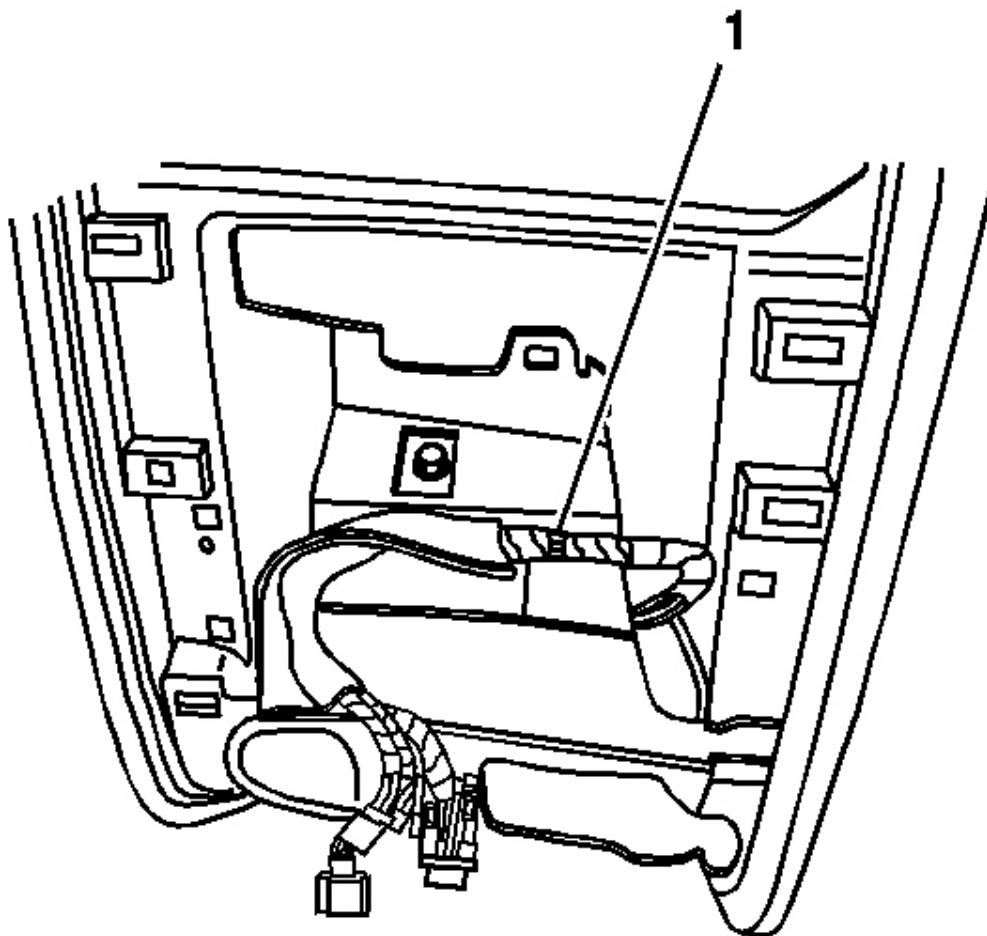
**Fig. 37: Identifying Right I/P Access Cover**  
Courtesy of GENERAL MOTORS CORP.

9. Install the right I/P access cover.
10. Install the front upper speakers, if equipped. Refer to **Front Upper Speaker Replacement** .
11. Install the trim pad. Refer to **Instrument Panel Upper Trim Pad Replacement**.
12. Install the windshield garnish moldings. Refer to **Windshield Pillar Garnish Molding Replacement** .
13. If replacing the I/P, Install the headlamp switch bezel. Refer to **Instrument Panel Accessory Trim Plate Replacement - Left Side**.
14. Install the headlamp switch to the bezel. Refer to **Headlamp Switch Replacement** .



**Fig. 38: View Of Left IP Access Cover Removed**  
**Courtesy of GENERAL MOTORS CORP.**

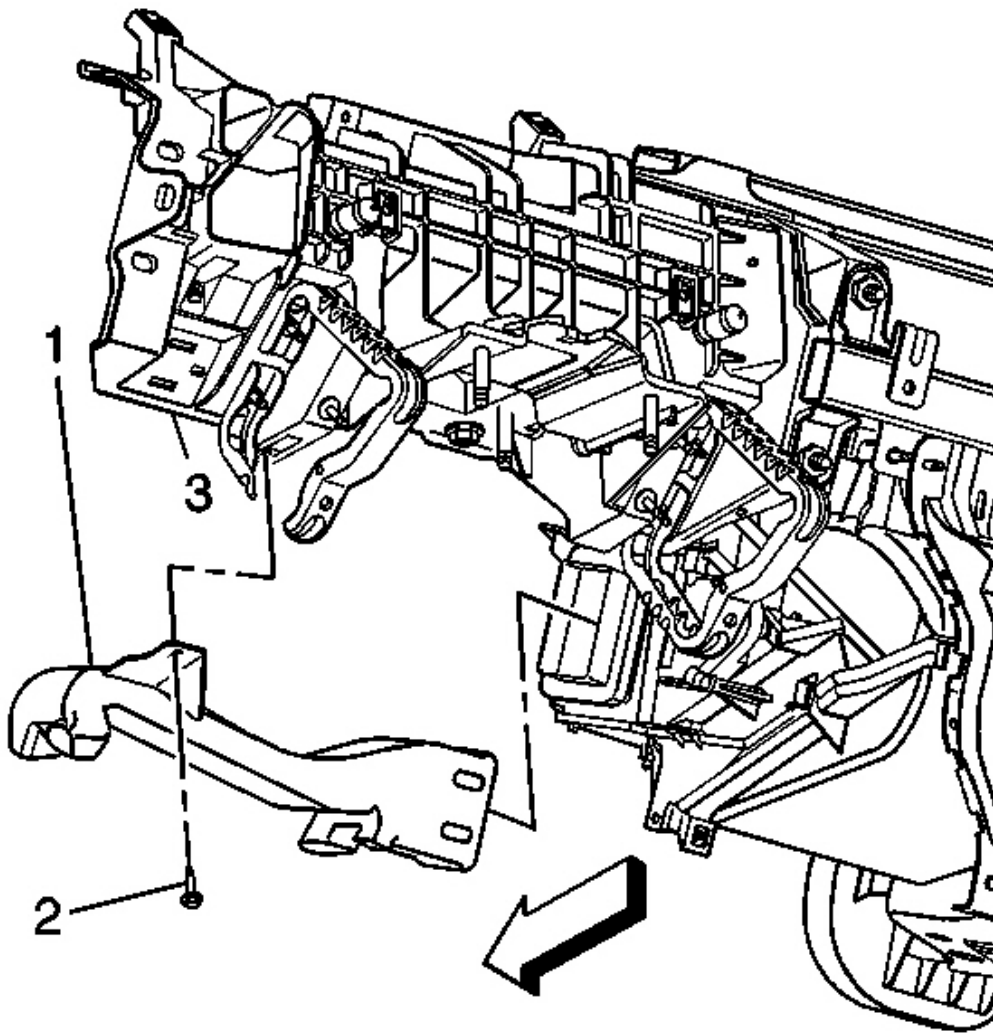
15. Install the left I/P access cover.



**Fig. 39: View Of HVAC Control Module Wire Harness Attachment**  
Courtesy of GENERAL MOTORS CORP.

16. Install the HVAC control module wire harness attachment (1) to the I/P substrate.
17. Install the HVAC control module. Refer to **HVAC Control Module Replacement** .
18. Install the radio. Refer to **Radio Replacement** .
19. Install the I/P cluster. Refer to **Instrument Cluster Replacement** .
20. Install the I/P cluster bezel, Chevrolet only. Refer to **Instrument Panel Cluster Trim Plate Bezel Replacement (Chevrolet)** or **Instrument Panel Cluster Trim Plate Bezel Replacement (GMC, Buick)**.
21. Install the I/P accessory trim plate, GMC or Oldsmobile only. Refer to **Instrument Panel Accessory Trim Plate Replacement (GMC)**.

22. Install the I/P lower sound insulator, GMC or Chevrolet only. Refer to **Instrument Panel Insulator Panel Replacement (GMC/Chevrolet)**.
23. Install the center console. Refer to **Console Replacement**.
24. Install the I/P compartment door. Refer to **Instrument Panel Compartment Door Replacement**.
25. Install the right closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Right Side**.
26. Install the steering column. Refer to **Steering Column Replacement**.



**Fig. 40: View Of Left Side HVAC Floor Air Outlet Duct**  
Courtesy of GENERAL MOTORS CORP.

## 2008 Isuzu Ascender LS

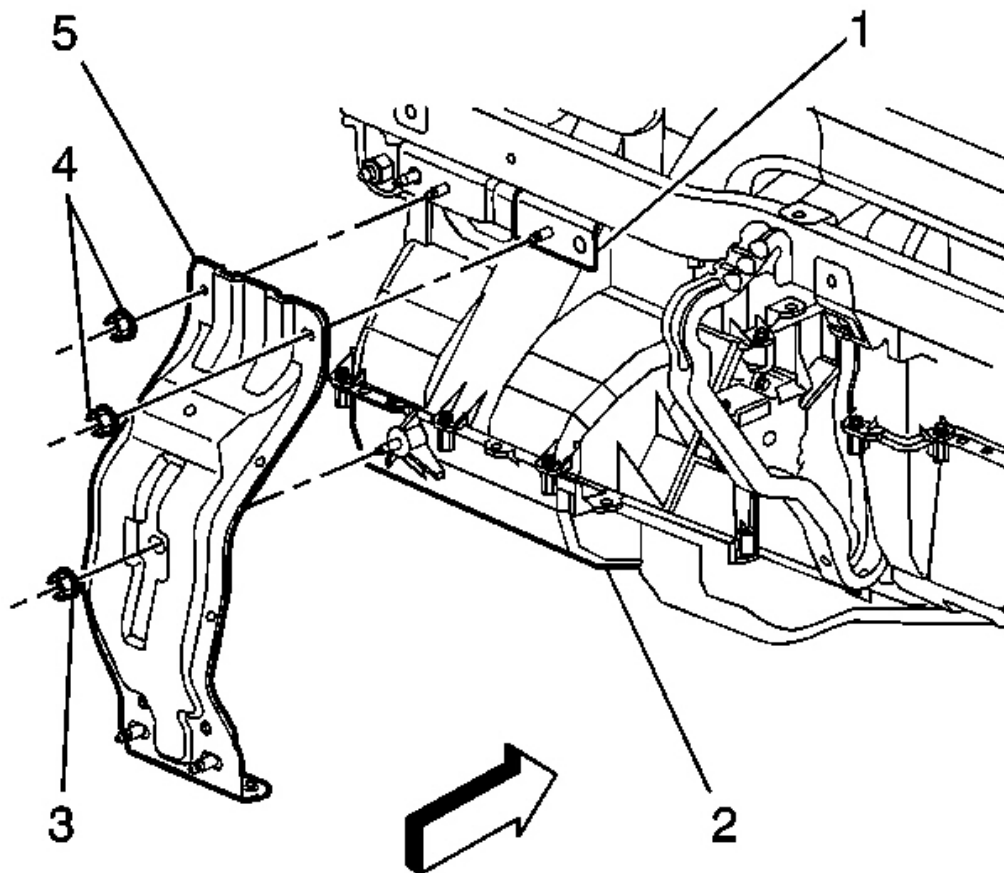
2008 Accessories & Equipment Instrument Panel & Console Trim - Ascender, Envoy & Trailblazer

27. Install the left HVAC floor duct (1).
28. Install the left HVAC floor duct push pin (2).
29. Install the knee bolster. Refer to **Knee Bolster Replacement**.
30. Install the knee bolster trim panel. Refer to **Driver Knee Bolster Panel Replacement**.
31. Install the left closeout/insulator panel. Refer to **Instrument Panel Insulator Panel Replacement - Right Side**.
32. Enable the SIR system. Refer to **SIR Disabling and Enabling** .

### INSTRUMENT PANEL CARRIER REPLACEMENT

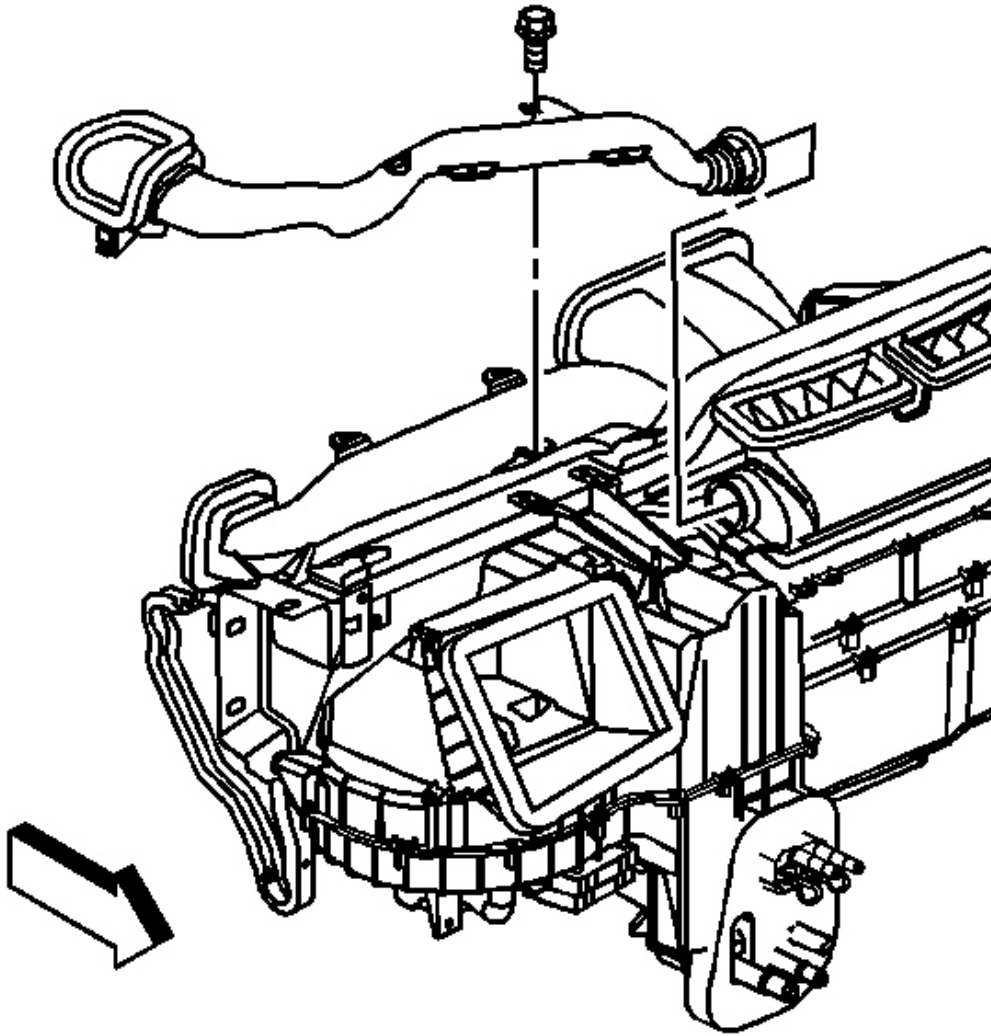
#### Removal Procedure

1. Remove the center floor console. Refer to **Console Replacement**.
2. Remove the instrument panel (I/P). Refer to **Instrument Panel Assembly Replacement**.
3. Remove the steering column with the steering wheel attached. Refer to **Steering Column Replacement** .
4. Remove the floor console bracket. Refer to **Floor Console Bracket Replacement**.



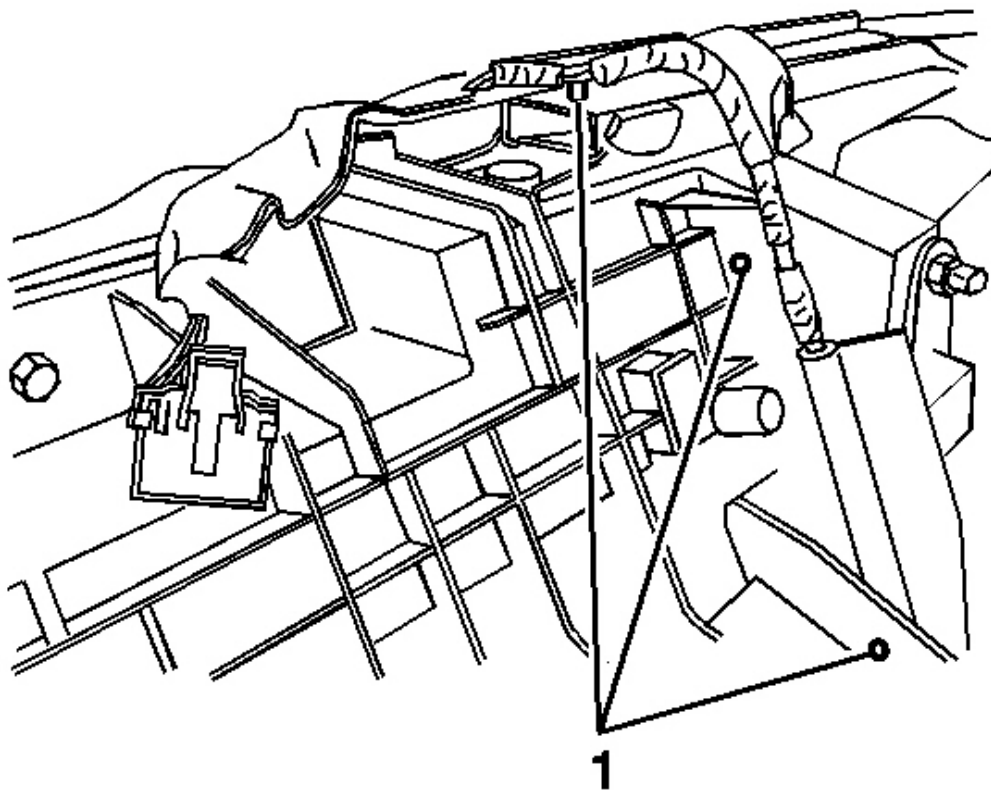
**Fig. 41: View Of HVAC Center Support Bracket, HVAC Module & Retaining Nuts**  
**Courtesy of GENERAL MOTORS CORP.**

5. Remove the splice pack from the floor panel located on the right side of the HVAC center support bracket (5).
6. Remove the HVAC center support bracket (5) from the HVAC module (2).



**Fig. 42: View Of Side Window Defogger Duct**  
Courtesy of GENERAL MOTORS CORP.

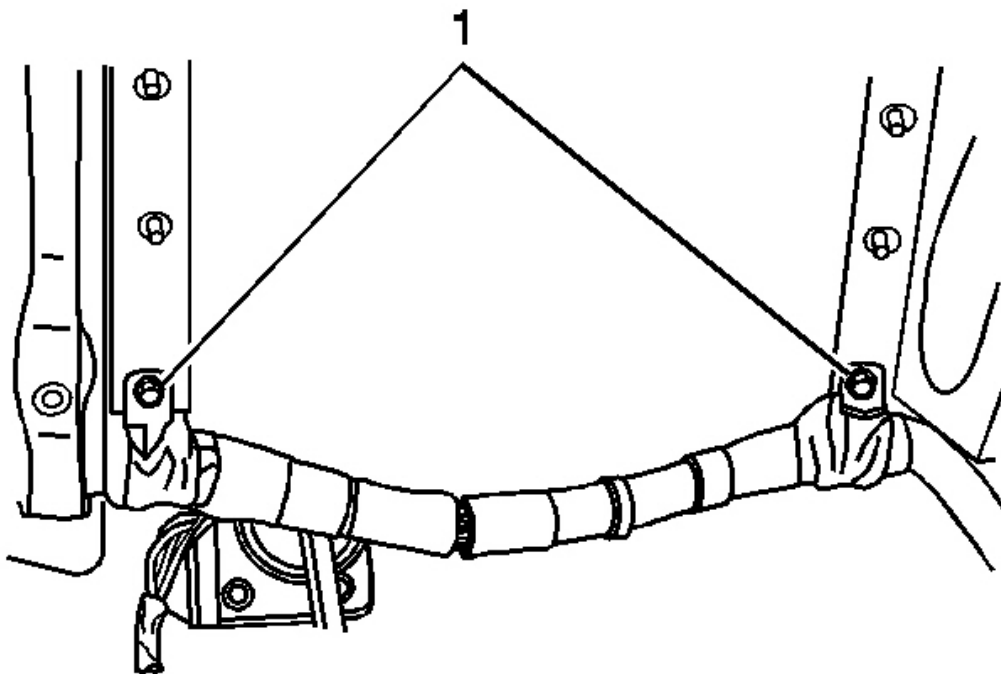
7. Remove the side window defogger duct.



**Fig. 43: Locating Instrument Panel Cluster (IPC) Wire Harness Attachments**  
**Courtesy of GENERAL MOTORS CORP.**

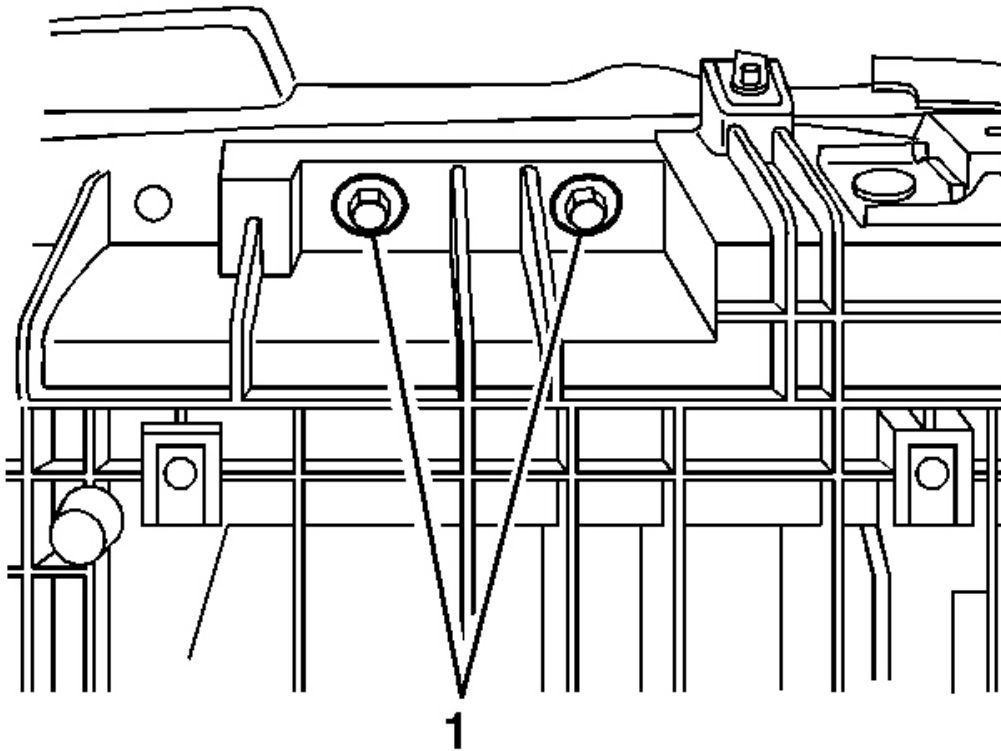
8. Remove the instrument panel cluster (IPC) wire harness attachments (1) from the steering column support bracket and I/P carrier.
9. Remove the speaker wire harness attachments from the steering column support bracket and I/P carrier.





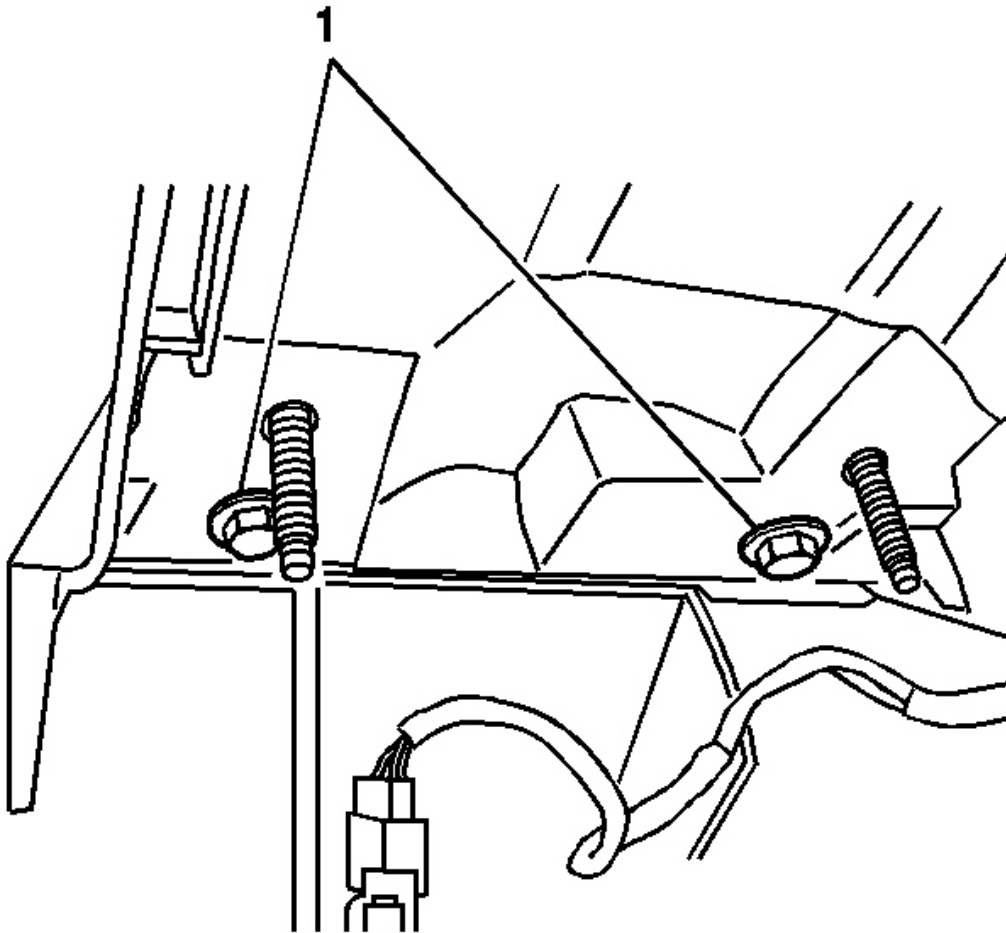
**Fig. 44: Locating IP Wiring Harness To IP Support Brackets Retaining Screws**  
Courtesy of GENERAL MOTORS CORP.

10. Remove the I/P wiring harness retaining screws (1) from the I/P support brackets, located near the steering column support bracket.



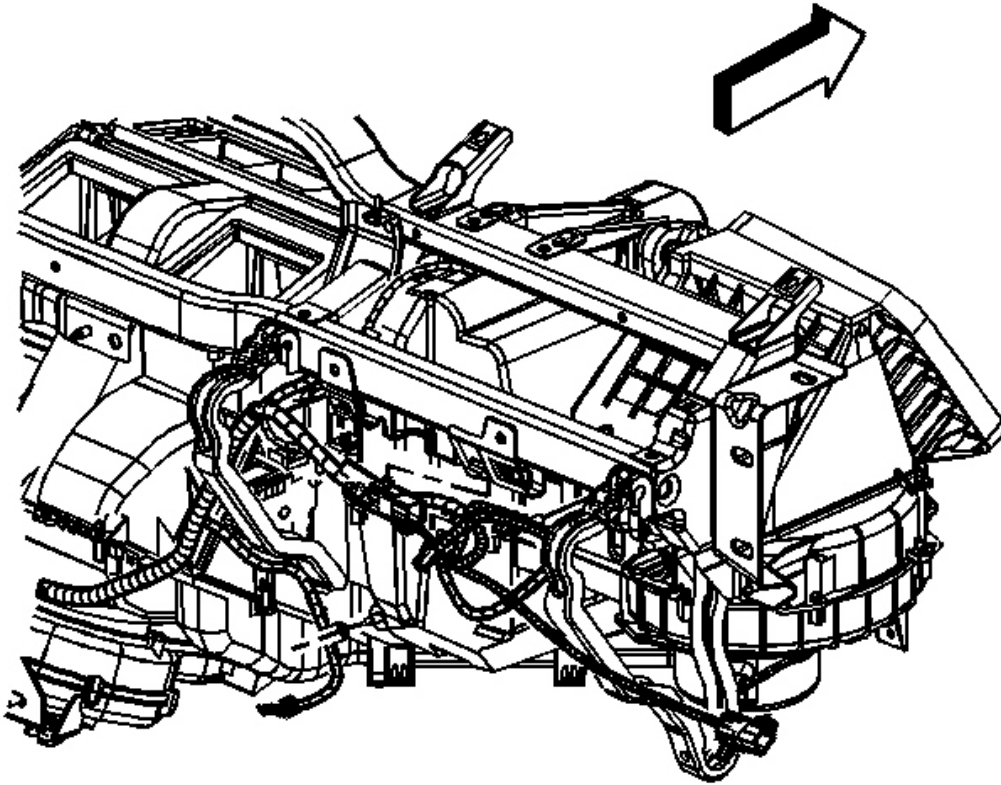
**Fig. 45: Identifying Steering Column Support Bracket Top Retaining Bolts**  
Courtesy of GENERAL MOTORS CORP.

11. Remove the 2 bolts (1) located at the top of the steering column support bracket.



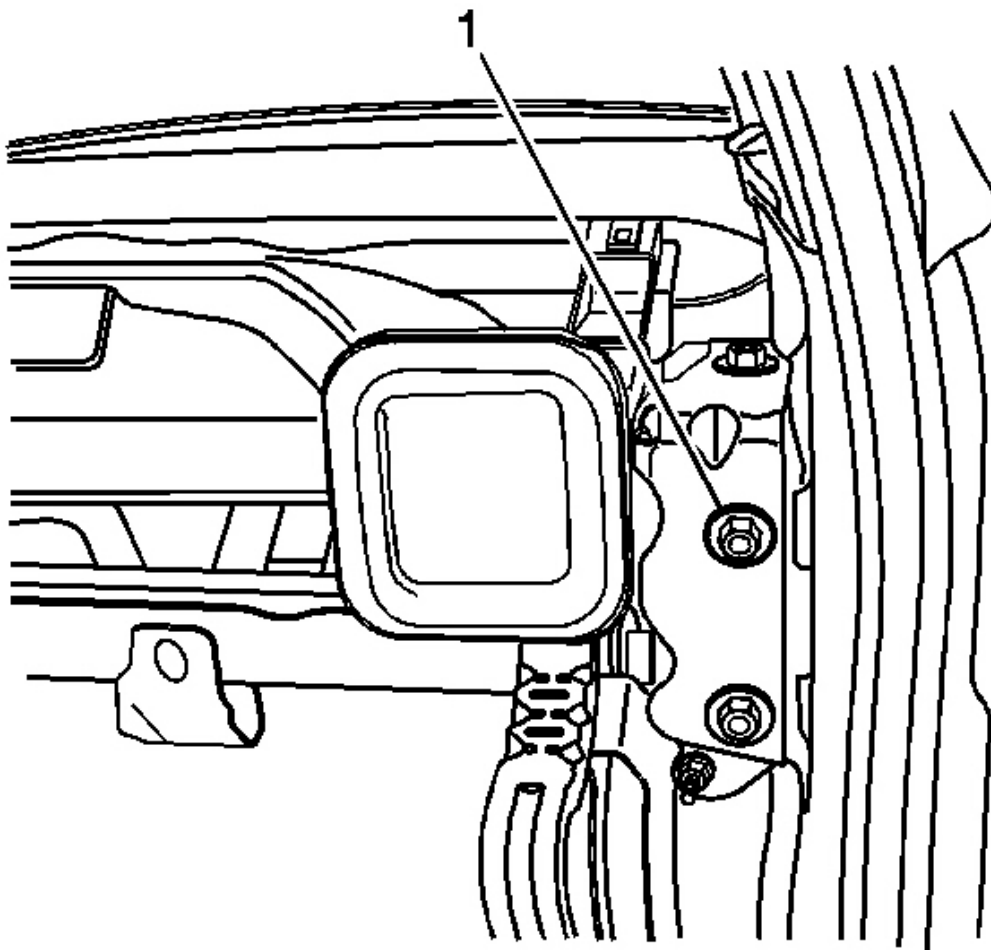
**Fig. 46: View Of Steering Column Support Bracket Bottom Retaining Bolts**  
Courtesy of GENERAL MOTORS CORP.

12. Remove the 2 bolts (1) located underneath the steering column support bracket.



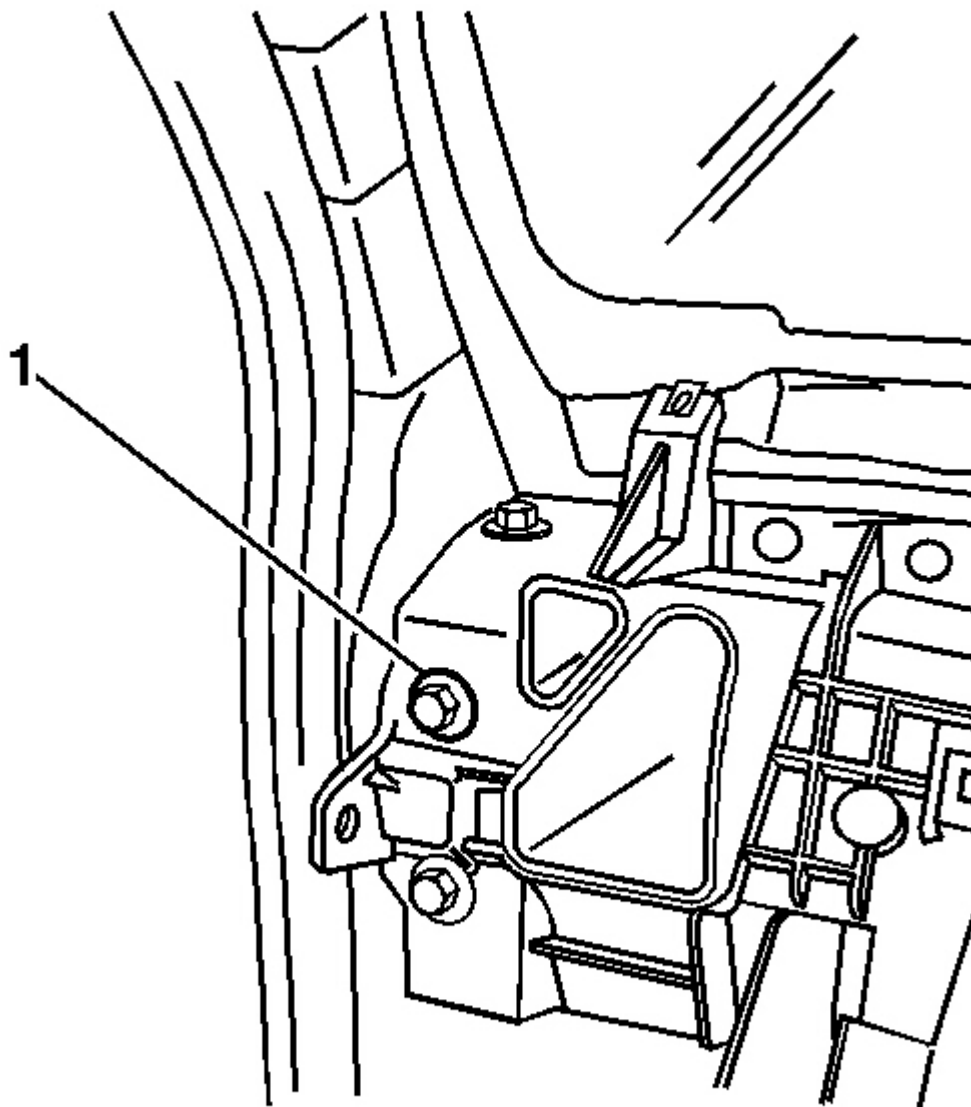
**Fig. 47: Identifying SIR Harness At IP Carrier**  
Courtesy of GENERAL MOTORS CORP.

13. Detach and remove the SIR harness from the I/P carrier.
14. Disconnect the radio antenna cable located near the blower motor.
15. Detach and remove the I/P wire harness from the right side of the I/P carrier.
16. Remove the radio harness from the I/P carrier.
17. Remove the temperature sensors from the ventilation ducts.
18. Remove the transfer case control module from the steering column support bracket.



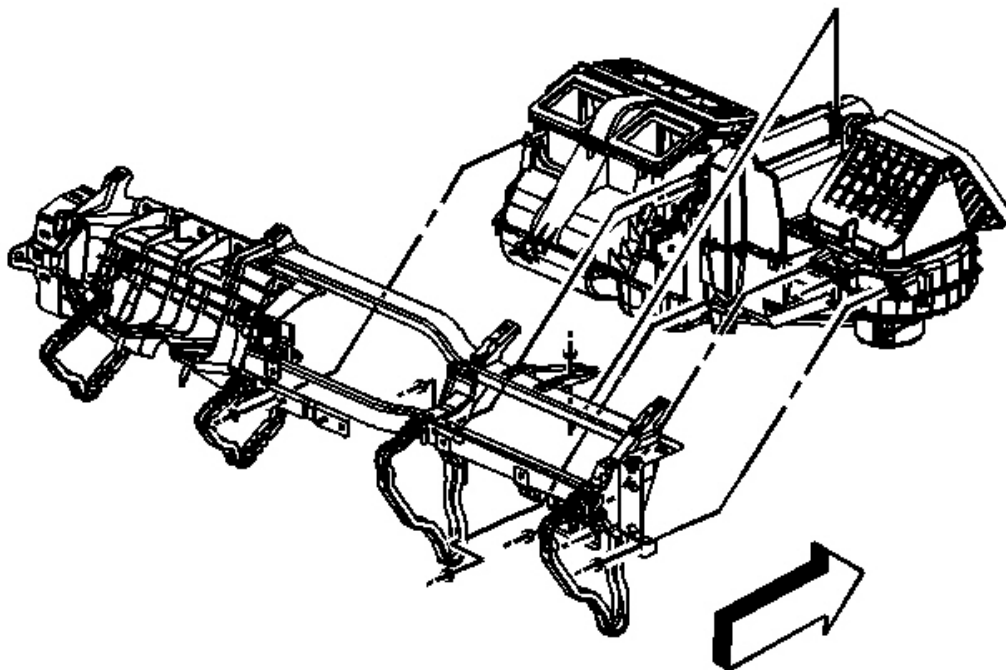
**Fig. 48: Identifying IP Carrier Center Bolt**  
Courtesy of GENERAL MOTORS CORP.

19. Remove the upper and lower bolts retaining the I/P carrier to the right cowl side carrier bracket.
20. Remove the center bolt (1) that retains the I/P carrier to the right cowl side carrier bracket.



**Fig. 49: View Of Steering Column Support Bracket Center Bolt**  
Courtesy of GENERAL MOTORS CORP.

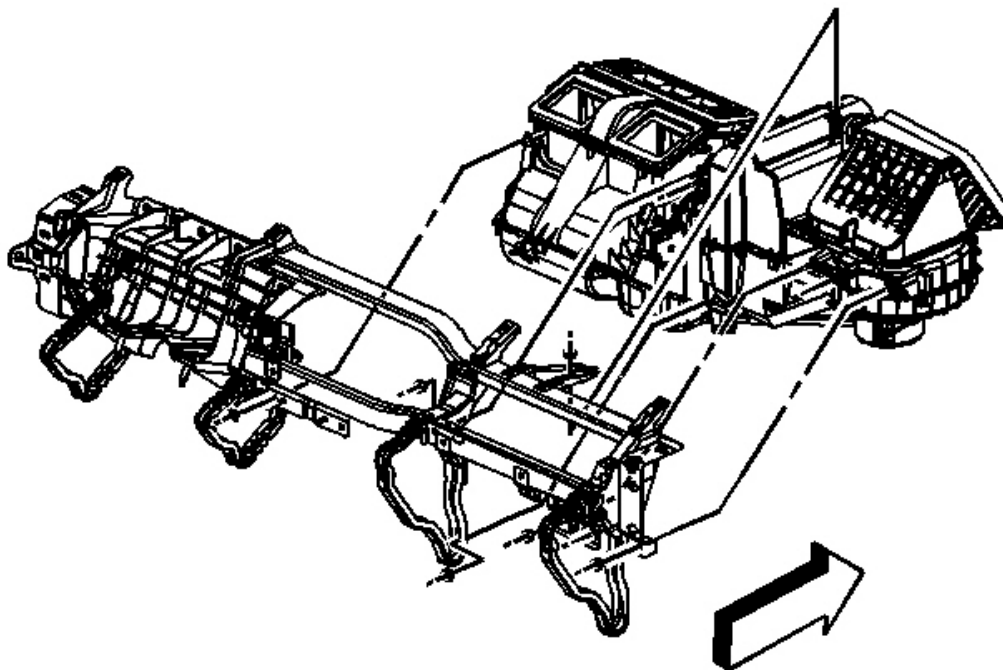
21. Remove the upper and lower bolts retaining the steering column support bracket to the left cowl side carrier bracket.
22. Remove the center bolt (1) that retains the steering column support bracket to the left cowl side carrier bracket.



**Fig. 50: View Of HVAC Module & IP Carrier**  
Courtesy of GENERAL MOTORS CORP.

23. Remove the 6 nuts that retain the HVAC module to the I/P carrier.
24. Remove the I/P carrier and steering column support bracket assembly from the vehicle and place on a clean prepared surface.

#### **Installation Procedure**



**Fig. 51: View Of HVAC Module & IP Carrier**  
Courtesy of GENERAL MOTORS CORP.

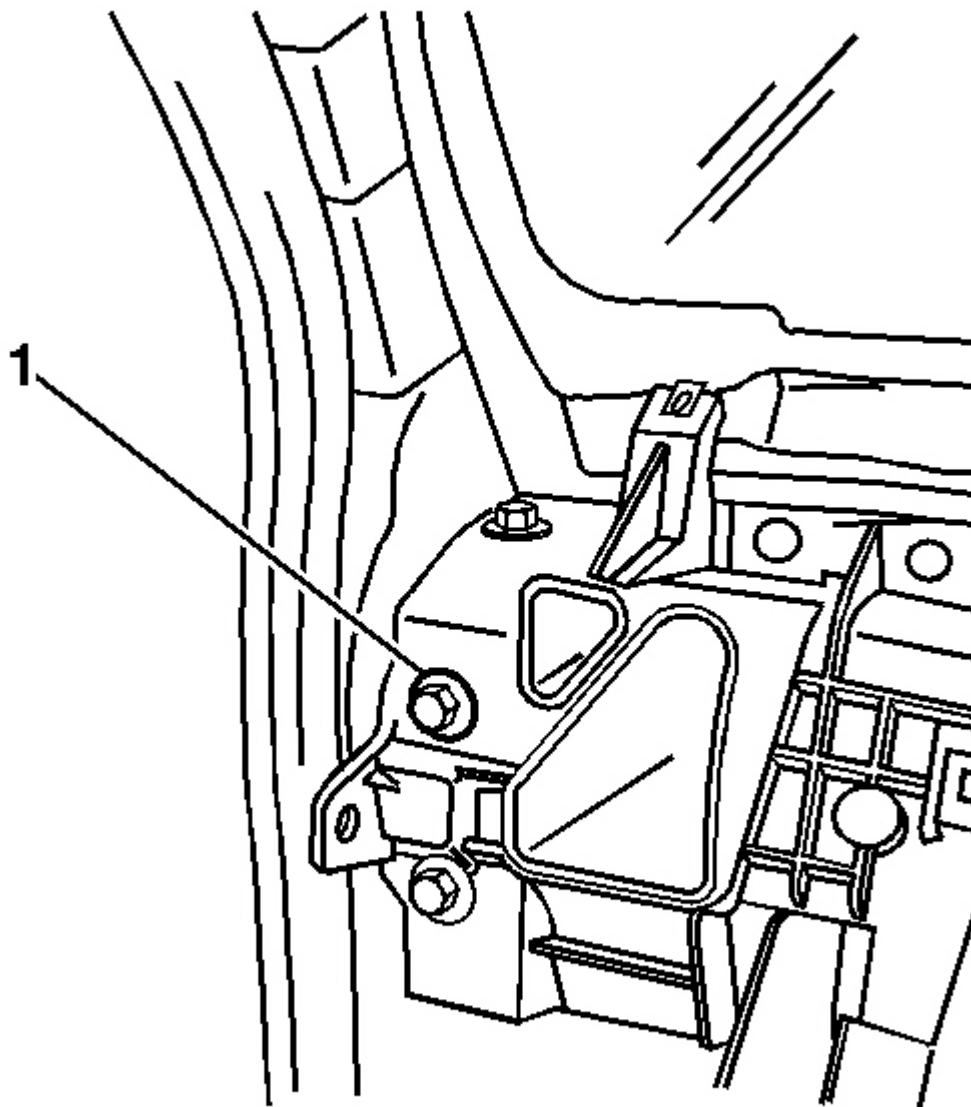
1. Install the I/P carrier and steering column support bracket assembly to the vehicle.

**NOTE:** Refer to Fastener Notice .

2. Install the 6 nuts that retain the HVAC module to the I/P carrier.

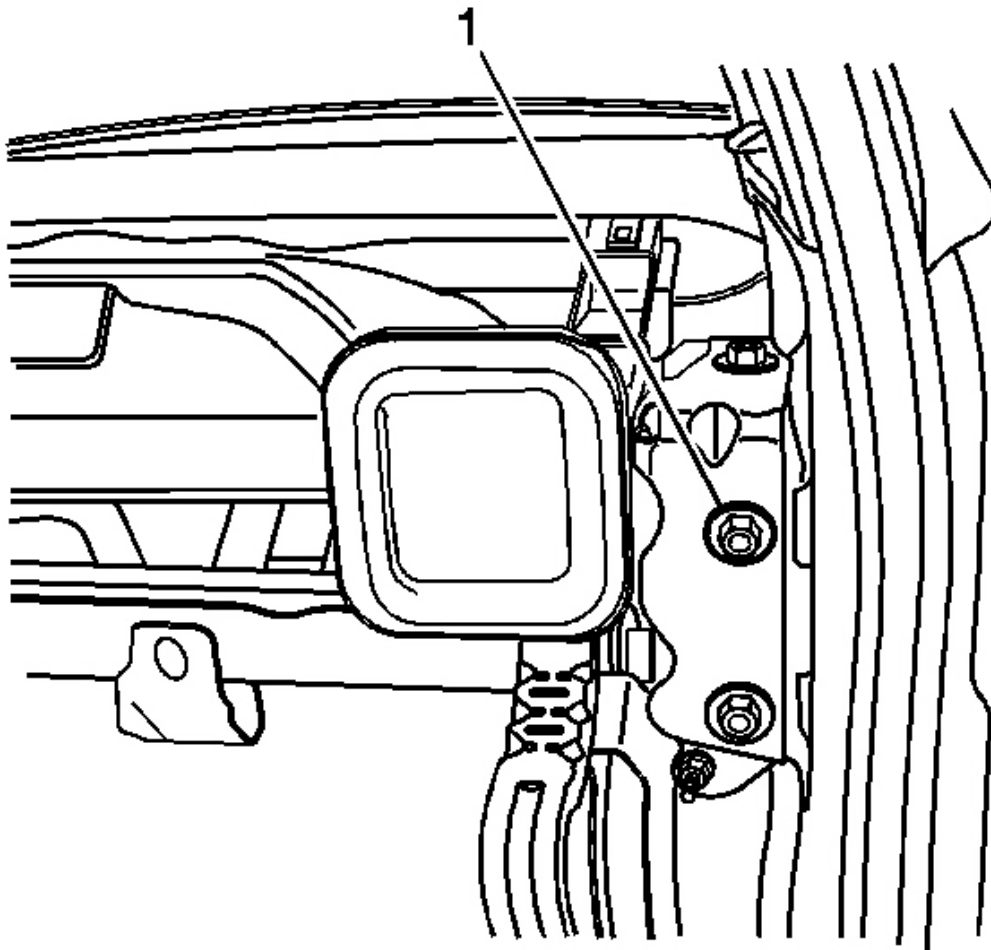
**Tighten:** Tighten the HVAC module to the I/P carrier nuts to 10 N.m (88 lb in).





**Fig. 52: View Of Steering Column Support Bracket Center Bolt**  
Courtesy of GENERAL MOTORS CORP.

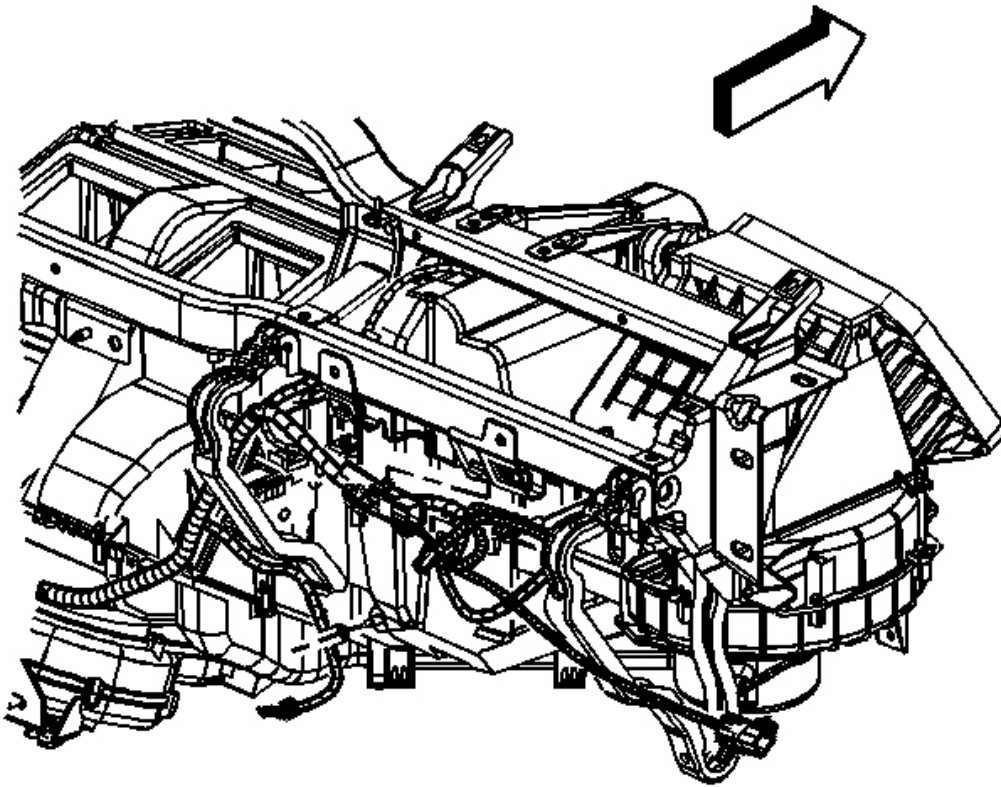
3. Install the center bolt (1) retaining the steering column support bracket to the left cowl side carrier bracket.
4. Install the upper and lower bolts retaining the steering column support bracket to the left cowl side carrier bracket.



**Fig. 53: Identifying IP Carrier Center Bolt**  
Courtesy of GENERAL MOTORS CORP.

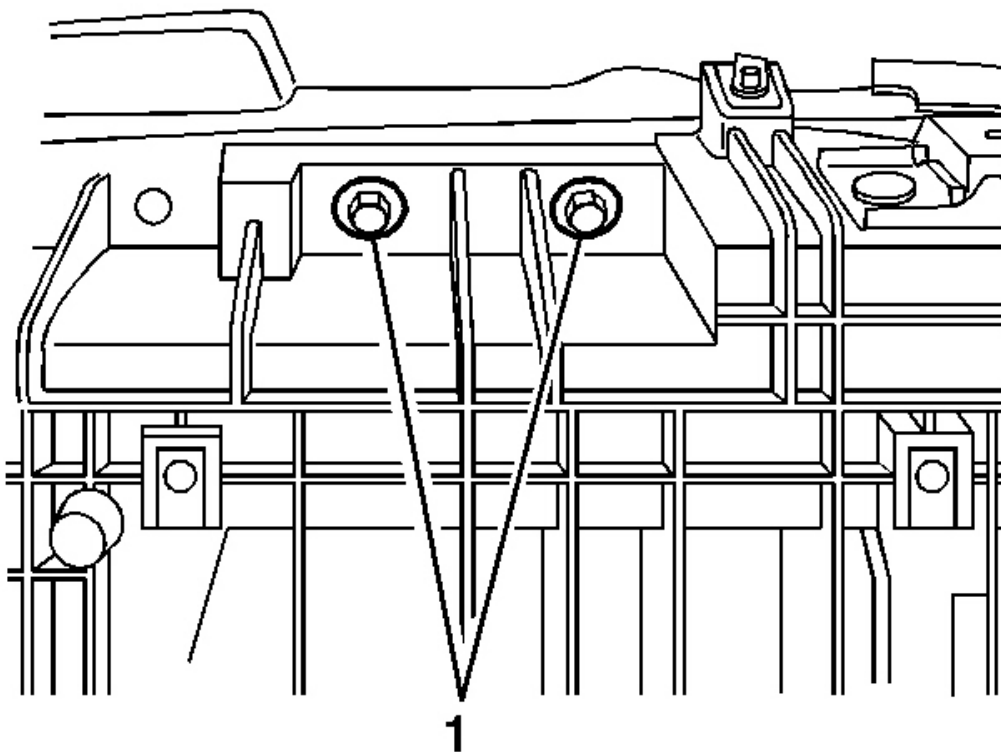
5. Install the center bolt (1) retaining the I/P carrier to the right cowl side carrier bracket.
6. Install the upper and lower bolts retaining the I/P carrier to the right cowl side carrier bracket.

**Tighten:** Starting with the center bolts (1), tighten the 6 cowl side carrier bracket bolts to 50 N.m (36 lb ft).



**Fig. 54: Identifying SIR Harness At IP Carrier**  
Courtesy of GENERAL MOTORS CORP.

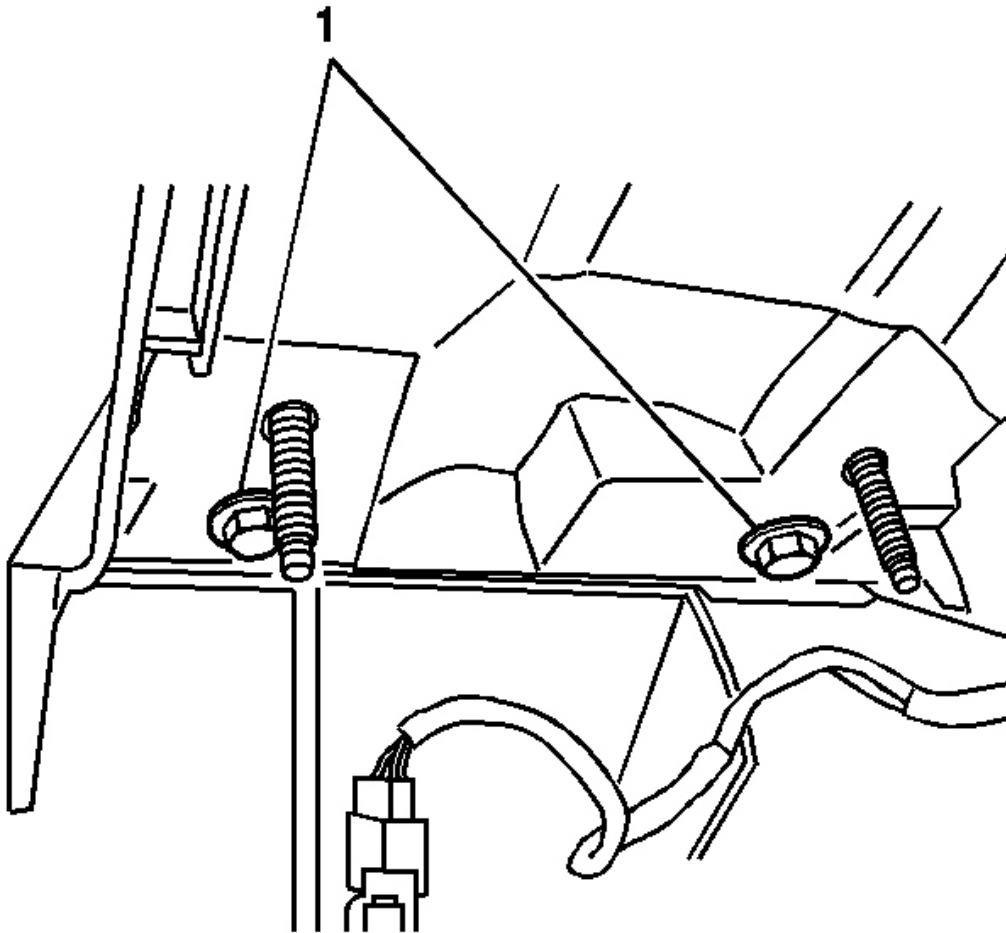
7. Install and attach the I/P wire harness to the I/P carrier.
8. Connect the radio antenna cable located near the blower motor.
9. Install the SIR harness to the I/P carrier.
10. Install the radio harness to the I/P carrier.
11. Install the temperature sensors to the ventilation ducts.
12. Install the transfer case control module to the steering column support bracket.



**Fig. 55: Identifying Steering Column Support Bracket Top Retaining Bolts**  
Courtesy of GENERAL MOTORS CORP.

13. Install the 2 bolts (1) located at the top of the steering column support bracket.

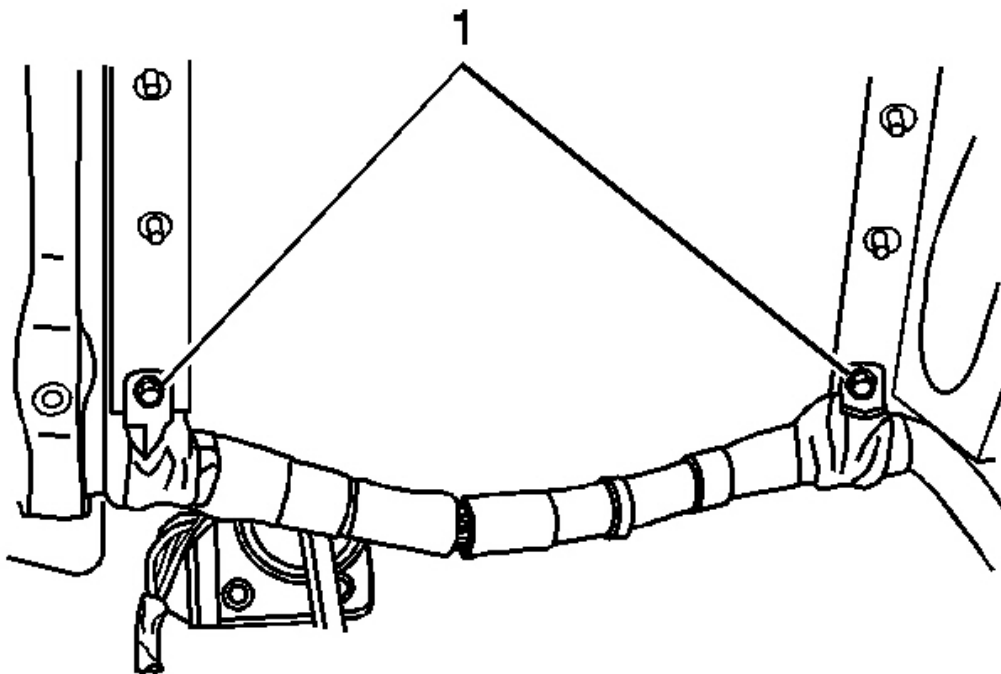
**Tighten:** Tighten the upper steering column support bracket bolts to 50 N.m (36 lb ft).



**Fig. 56: View Of Steering Column Support Bracket Bottom Retaining Bolts**  
Courtesy of GENERAL MOTORS CORP.

14. Install the 2 bolts (1) located underneath the steering column support bracket.

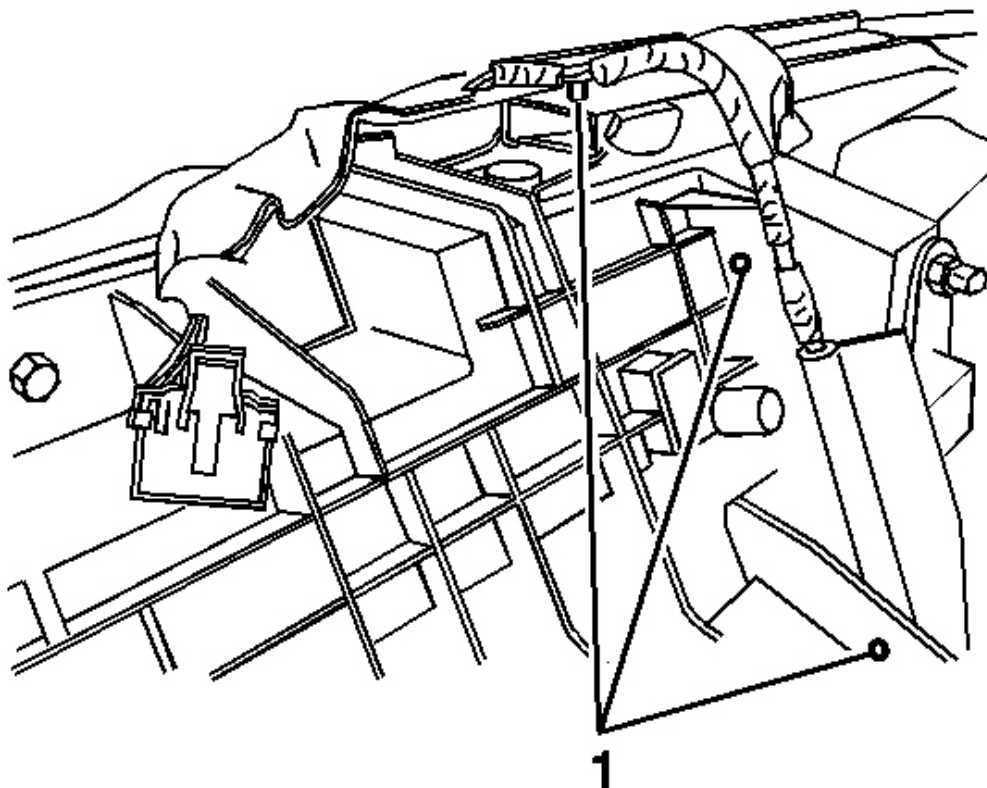
**Tighten:** Tighten the lower steering column support bracket bolts to 50 N.m (36 lb ft).



**Fig. 57: Locating IP Wiring Harness To IP Support Brackets Retaining Screws**  
Courtesy of GENERAL MOTORS CORP.

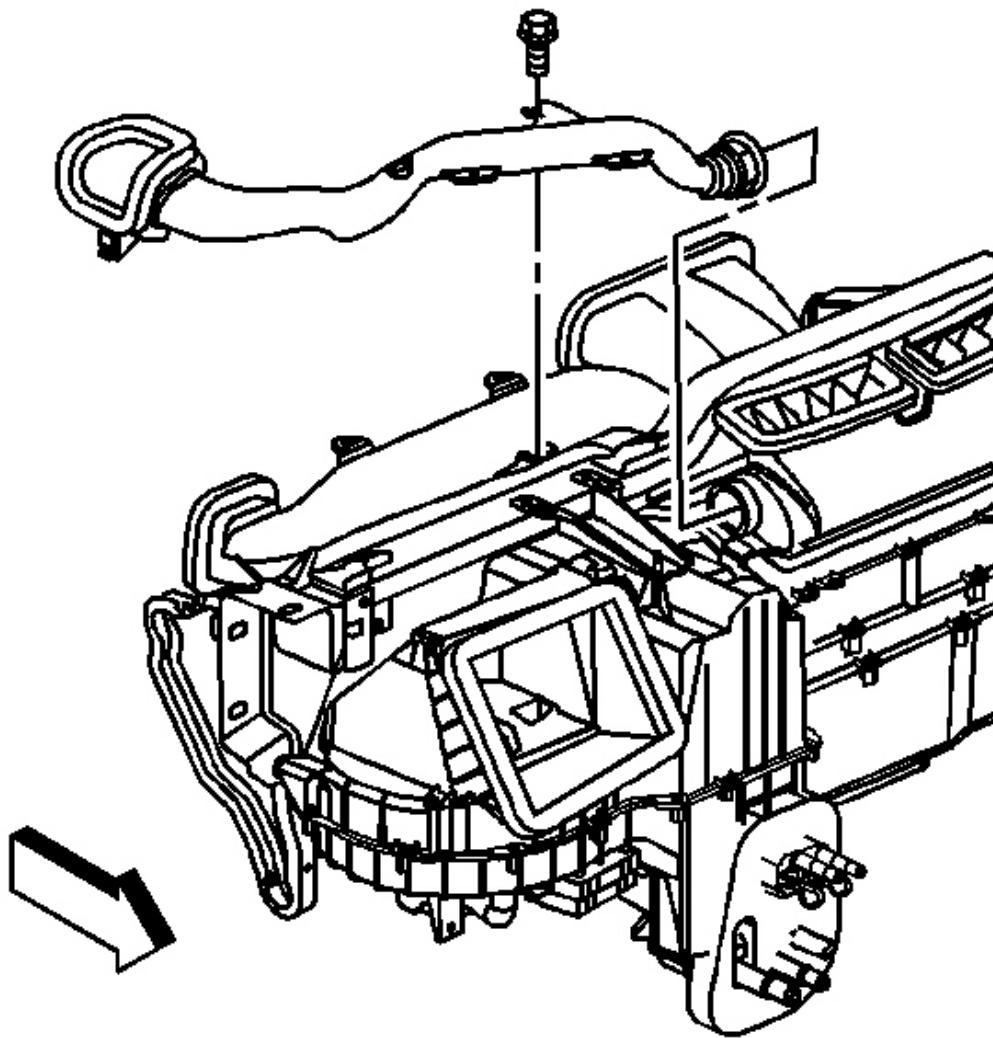
15. Install the I/P wire harness retaining screws (1) to the I/P support bracket located near the steering column support bracket.

**Tighten:** Tighten the I/P wire harness screws to 2.5 N.m (22 lb in).



**Fig. 58: Instrument Panel Cluster (IPC) Wire Harness Attachments**  
**Courtesy of GENERAL MOTORS CORP.**

16. Install the IPC wire harness attachments (1) to the steering column support bracket and I/P carrier.
17. Install the speaker wire harness attachments to the steering column support bracket and I/P carrier.

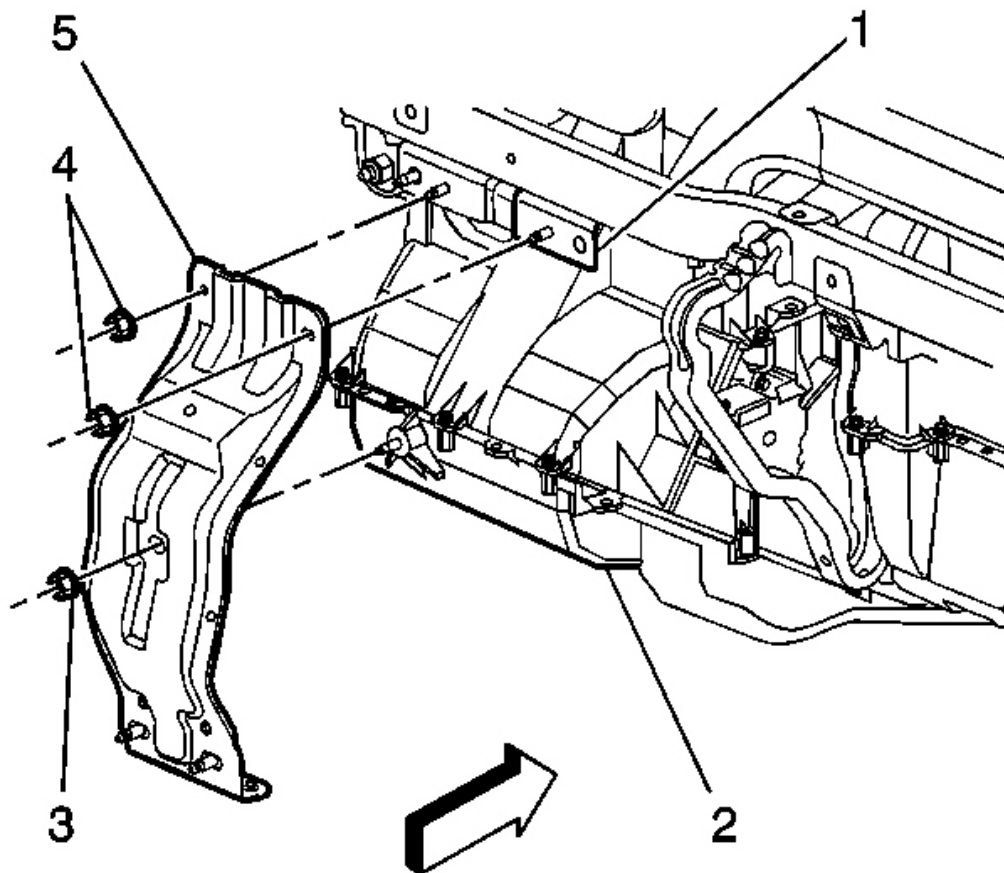


**Fig. 59: View Of Side Window Defogger Duct**  
Courtesy of GENERAL MOTORS CORP.

18. Install the side window defogger duct.
19. Install the screw retaining the defogger duct to the I/P carrier.

**Tighten:** Tighten the defogger duct screw to 2.5 N.m (22 lb in).





**Fig. 60: View Of HVAC Center Support Bracket, HVAC Module & Retaining Nuts**  
**Courtesy of GENERAL MOTORS CORP.**

20. Install the HVAC center support bracket (5) to the HVAC module.
21. Install the nuts retaining the HVAC center support bracket to the HVAC module (2).

**Tighten:** Tighten the center support bracket nuts to 10 N.m (88 lb in).

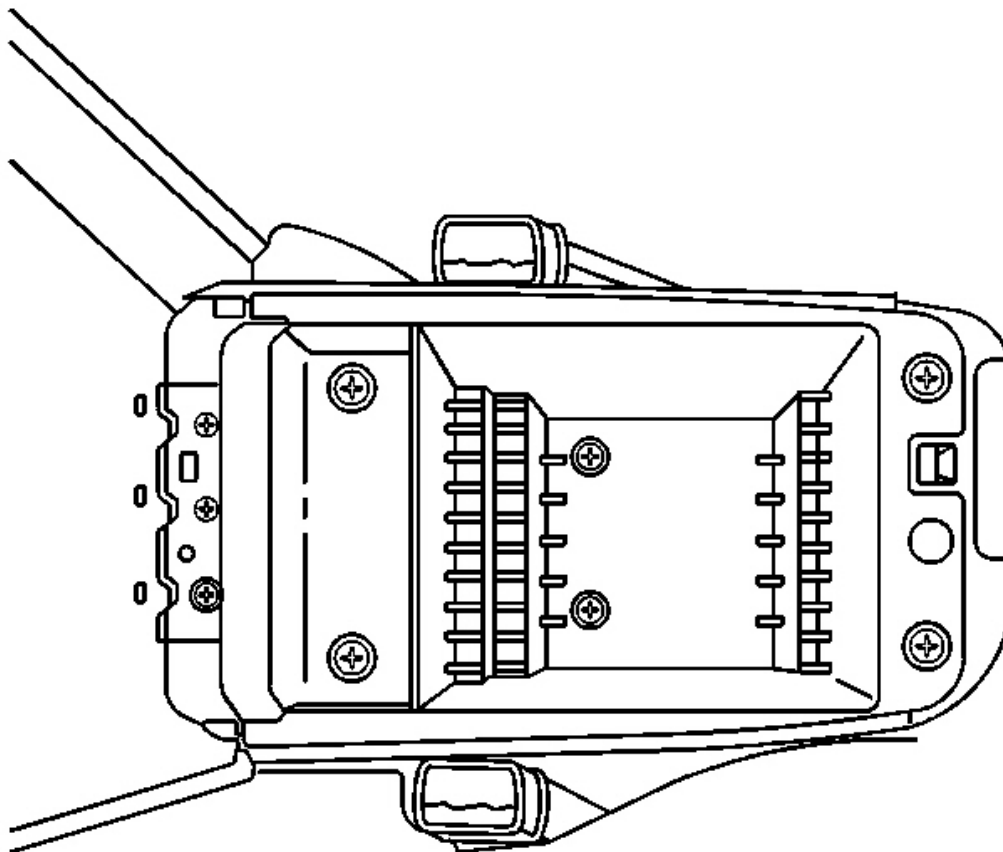
22. Install the splice pack to the floor panel.

**Tighten:** Tighten the splice pack retaining bolt to 10 N.m (88 lb in).

23. Install the steering column. Refer to **Steering Column Replacement**.
24. Install the I/P. **Instrument Panel Assembly Replacement**.
25. Install the center floor console. Refer to **Console Replacement**.

## **FRONT FLOOR CONSOLE COMPARTMENT REPLACEMENT**

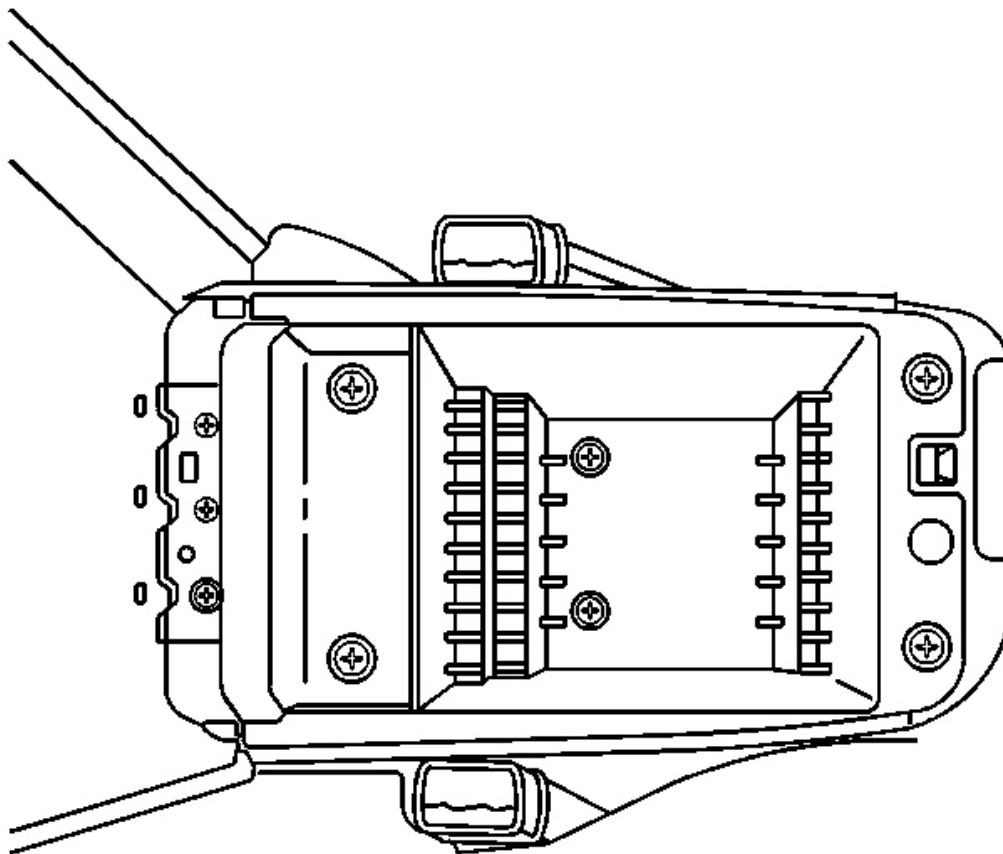
### **Removal Procedure**



**Fig. 61: View Of Console Storage Bin**  
**Courtesy of GENERAL MOTORS CORP.**

1. Open the storage bin cover.
2. Remove the rubber mats covering the retaining screws.
3. Remove the 6 screws that retain the storage bin to the console.
4. Remove the storage bin from the console.

### **Installation Procedure**



**Fig. 62: View Of Console Storage Bin**  
Courtesy of GENERAL MOTORS CORP.

1. Install the storage bin to the console.

**NOTE:** Refer to Fastener Notice .

2. Install the 6 screws that retain the storage bin to the console.

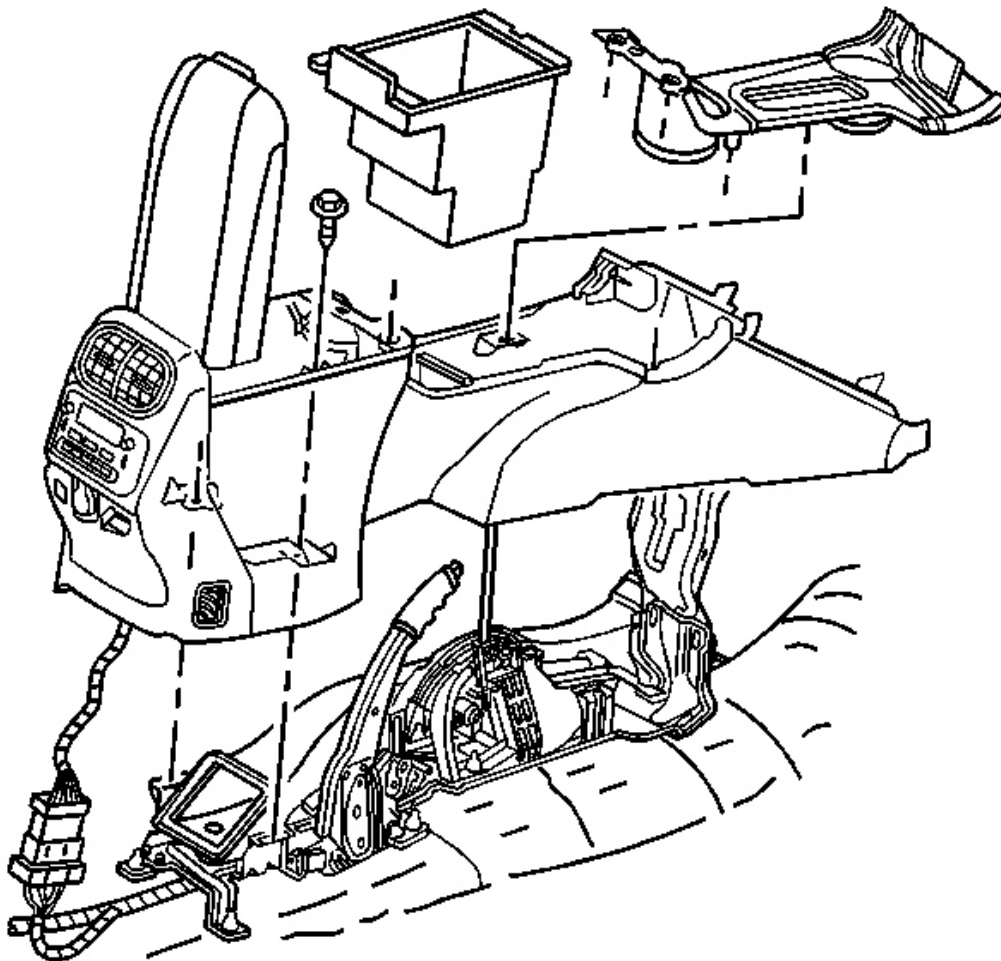
**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

3. Install the rubber mats covering the retaining screws.
4. Close the storage bin cover.

## CONSOLE REPLACEMENT

**Removal Procedure**

1. Block the wheels to prevent the vehicle from moving.
2. Remove the rubber ash tray inserts and rubber mat from the console.
3. Remove the floor shift control knob. Refer to **Floor Shift Control Knob Replacement** .
4. Remove the console storage compartment. Refer to **Front Floor Console Compartment Replacement**.



**Fig. 63: Identifying Console Assembly**  
Courtesy of GENERAL MOTORS CORP.

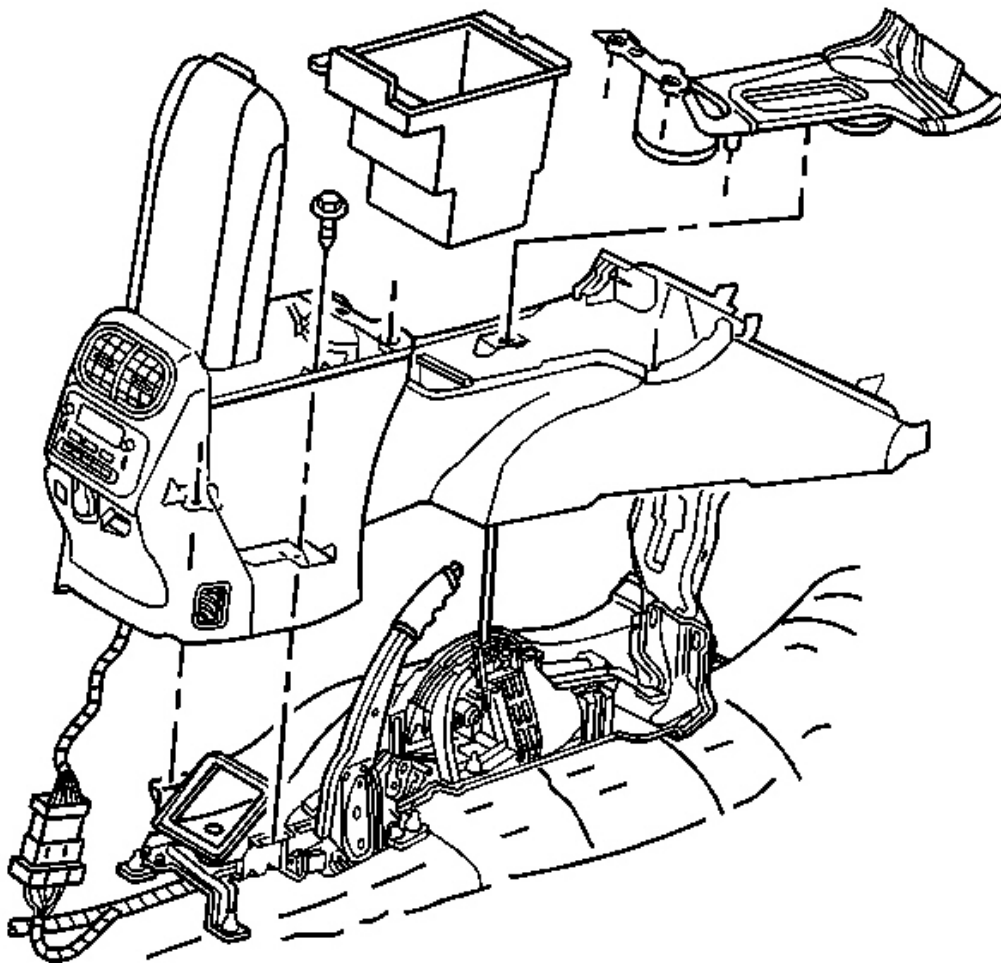
5. Remove the center console retaining screws.
6. Adjust the parking brake to the full-up, or fully engaged position.

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7. Release the 2 forward trim extensions ears attached to the lower instrument panel (I/P), Buick only.
8. Slide the console rearward and raise the rear of the console in order to expose the electrical connectors.
9. Disconnect the electrical connectors, as necessary.
10. Adjust the parking brake to approximately the halfway position.
11. Remove the center console from the vehicle.
12. If replacing the floor console base, remove the following and retain for transfer:
  1. Remove the HVAC control module (if equipped).
  2. Remove the armrest.
  3. Remove the HVAC module and duct assembly.
  4. Remove the cupholder.
  5. Remove the HVAC upper duct.

### Installation Procedure



**Fig. 64: Identifying Console Assembly**  
**Courtesy of GENERAL MOTORS CORP.**

1. If replacing the floor console base, install the following:
  1. Install the HVAC upper duct.
  2. Install the cupholder.
  3. Install the HVAC module and duct assembly.
  4. Install the armrest.
  5. Install the HVAC control module (if equipped).
2. Position the center console to the vehicle.
3. Adjust the parking brake to the full-up, or fully engaged position.

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4. Connect the electrical connectors, as necessary.
5. Lower the rear of the console and slide the console forward into position.
6. Ensure that the 2 retaining ears on the front extensions of the console are fully engaged to the lower I/P, Buick only.

**NOTE:** Refer to **Fastener Notice** .

7. Install the center console retaining screws.

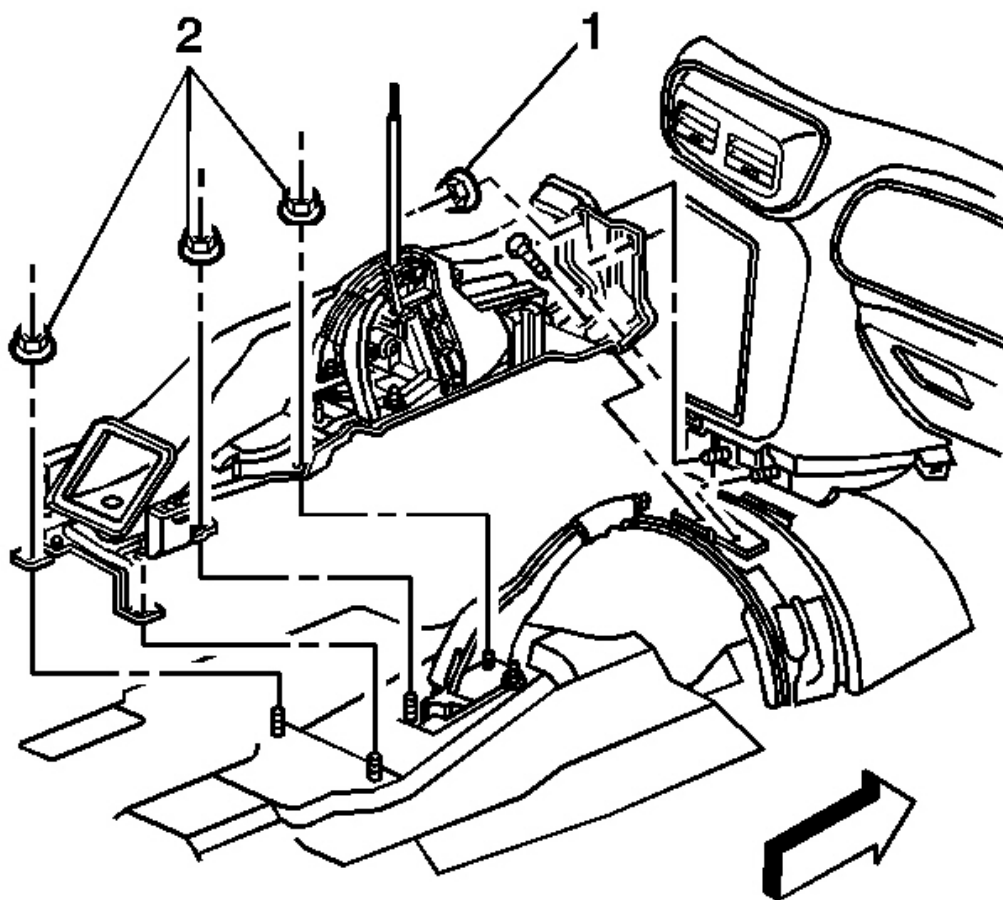
**Tighten:** Tighten the screws to 2.5 N.m (22 lb in).

8. Install the console storage compartment. Refer to **Front Floor Console Compartment Replacement**.
9. Install the floor shift control knob. Refer to **Floor Shift Control Knob Replacement** .
10. Install the rubber ash tray inserts and rubber mat to the console.
11. Remove the blocks from the vehicle.

## FLOOR CONSOLE BRACKET REPLACEMENT

### Removal Procedure

1. Block the wheels to prevent the vehicle from moving.
2. Remove the floor shift control knob. Refer to **Floor Shift Control Knob Replacement** .
3. Remove the center console. Refer to **Console Replacement**.
4. Disconnect the automatic transmission range selector cable. Refer to **Range Selector Lever Cable Replacement** .

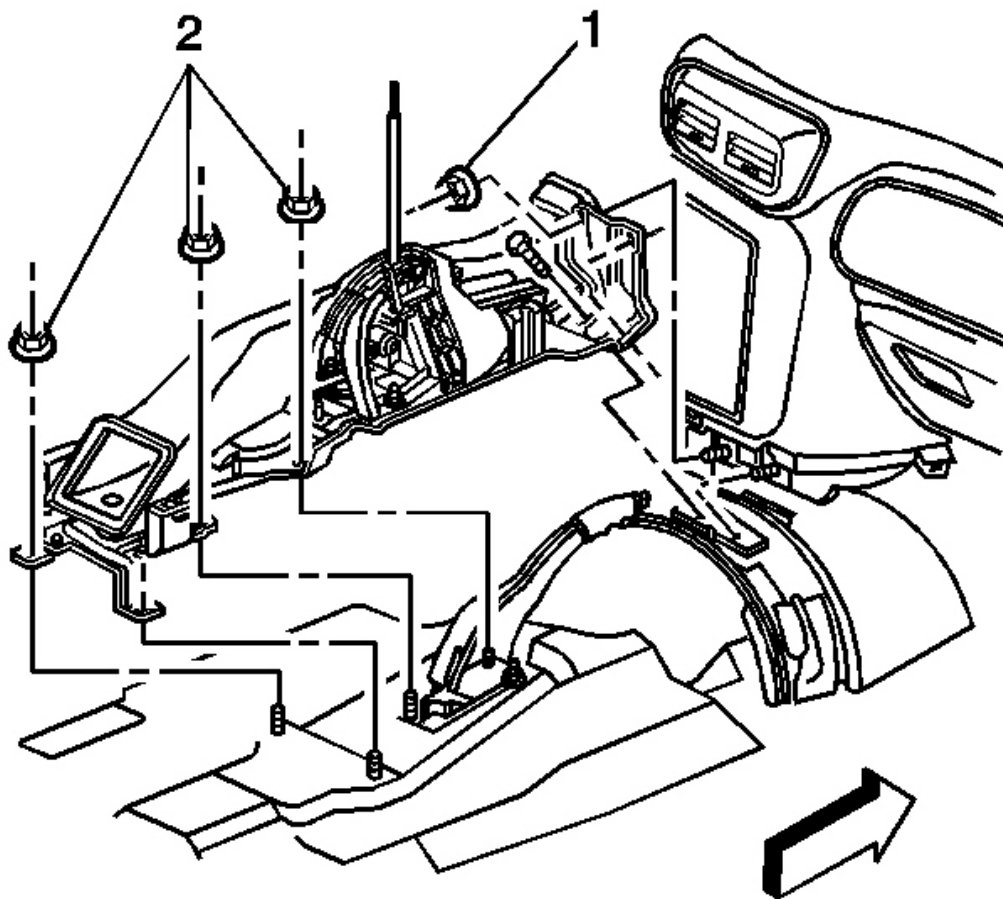


**Fig. 65: Identifying Console Floor Bracket**  
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the electrical connector from the automatic transmission shift interlock solenoid.
6. Disconnect the electrical connector from the park brake.
7. Remove the console bracket from the vehicle, by removing the retaining nuts (1) from the center instrument panel (I/P) bracket.
8. Remove the forward retaining screw, if equipped.
9. Remove the remaining fasteners from the console bracket.
10. Remove the console bracket from the vehicle.
11. Remove the floor shift control. Refer to **Transmission Control Replacement** .



1. Install the floor shift control. Refer to [Transmission Control Replacement](#) .



**Fig. 66: Identifying Console Floor Bracket**  
Courtesy of GENERAL MOTORS CORP.

2. Install the console bracket to the vehicle.
3. Loosely install all the fasteners that retain the console bracket to the vehicle.

**NOTE:** Refer to [Fastener Notice](#) .

4. Install the retaining nuts (1) to the center I/P bracket.

**Tighten:** Tighten nuts to 10 N.m (88 lb in).

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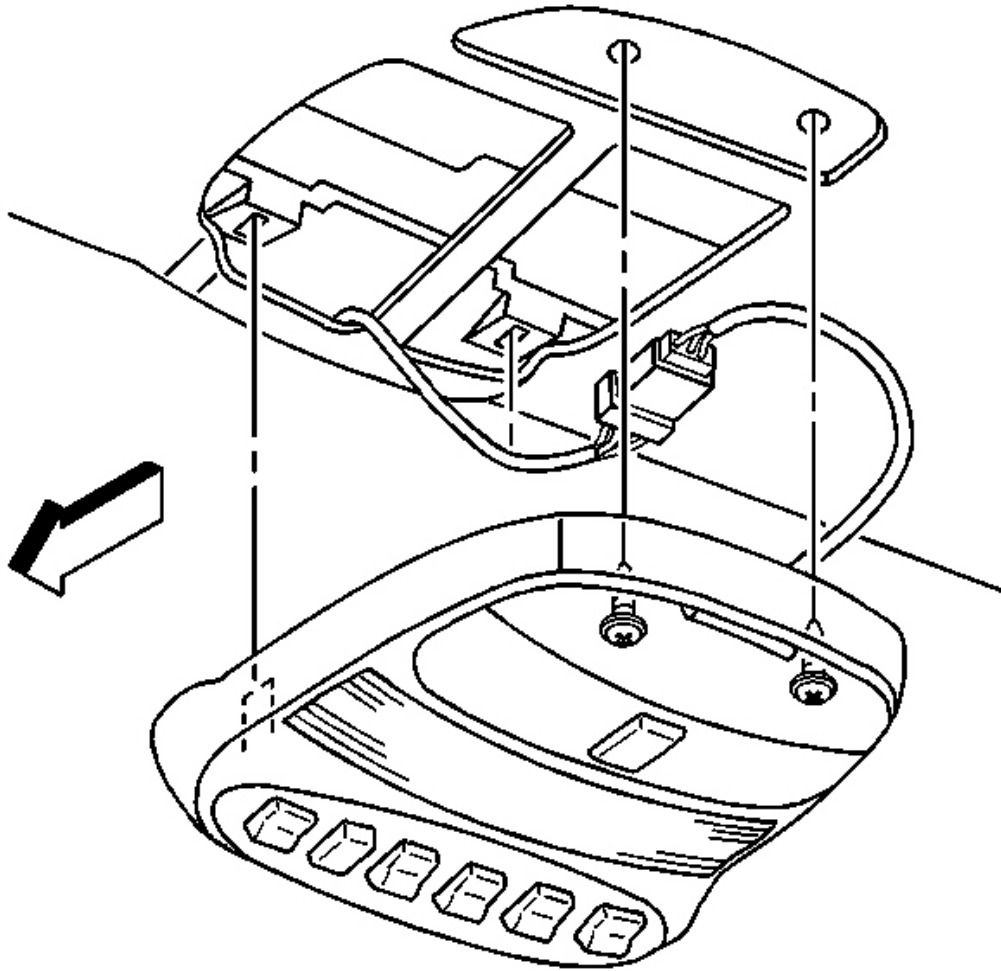
5. Install the remaining fasteners that retain the console bracket to the vehicle.

**Tighten:** Tighten the nuts to 25 N.m (18 lb ft).

6. Connect the electrical connector to the park brake.
7. Connect the electrical connector to the automatic transmission shift interlock solenoid.
8. Connect the automatic transmission range selector cable. Refer to **Range Selector Lever Cable Replacement** .
9. Install the center console. Refer to **Console Replacement**.
10. Install the floor shift control knob. Refer to **Floor Shift Control Knob Replacement** .
11. Remove the wheel blocks from the vehicle.

## ROOF CONSOLE REPLACEMENT

### Removal Procedure



**Fig. 67: View Of Overhead Console**  
**Courtesy of GENERAL MOTORS CORP.**

1. Remove the dome lamp lenses by gently prying the lenses from the console.
2. Remove the 2 screws that retain the console to the roof panel.
3. Release the front retaining tabs.
4. Lower the console and disconnect the electrical connectors as needed.
5. Remove the console from the vehicle
6. If replacing the console, remove the garage door opener if equipped. Refer to **Garage Door Opener Replacement** .
7. If replacing the console, remove the OnStar® microphone if equipped. Refer to **Mobile Telephone**

## 2008 Isuzu Ascender LS

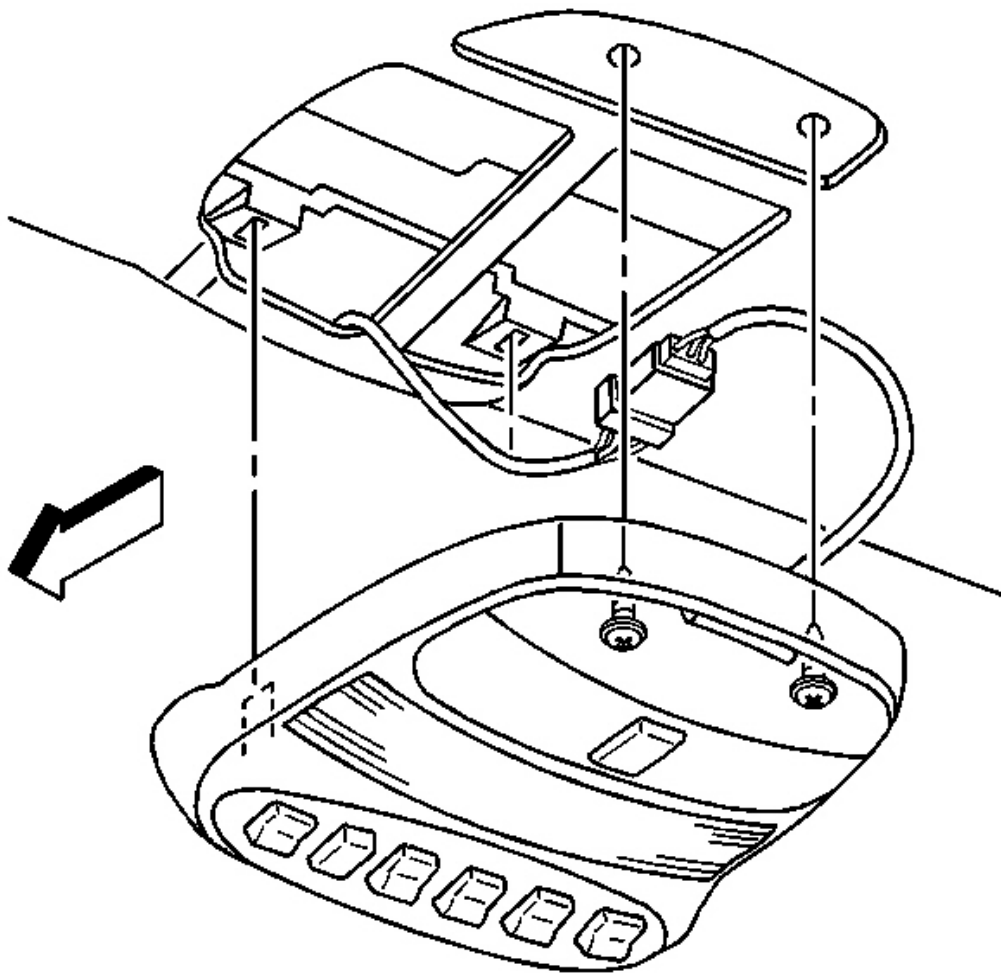
2008 Accessories & Equipment Instrument Panel & Console Trim - Ascender, Envoy & Trailblazer

### **Microphone Replacement** .

8. If replacing the console, remove the power sunroof switch if equipped. Refer to **Sunroof Switch Replacement** .
9. If replacing the console, remove the noise cancellation microphone if equipped. Refer to **Radio Volume Compensator Interior Noise Microphone Replacement** .

### **Installation Procedure**

1. If replacing the console, install the noise cancellation microphone if equipped. Refer to **Radio Volume Compensator Interior Noise Microphone Replacement** .
2. If replacing the console, install the power sunroof switch if equipped. Refer to **Sunroof Switch Replacement** .
3. If replacing the console, install the OnStar® microphone if equipped. Refer to **Mobile Telephone Microphone Replacement** .
4. If replacing the console, install the garage door opener if equipped. Refer to **Garage Door Opener Replacement** .



**Fig. 68: View Of Overhead Console**  
Courtesy of GENERAL MOTORS CORP.

5. Position the console to the roof panel.
6. Connect the electrical connectors as needed.
7. Seat the front retaining tabs.

**NOTE:** Refer to Fastener Notice .

8. Install the 2 screws retaining the console to the roof panel.

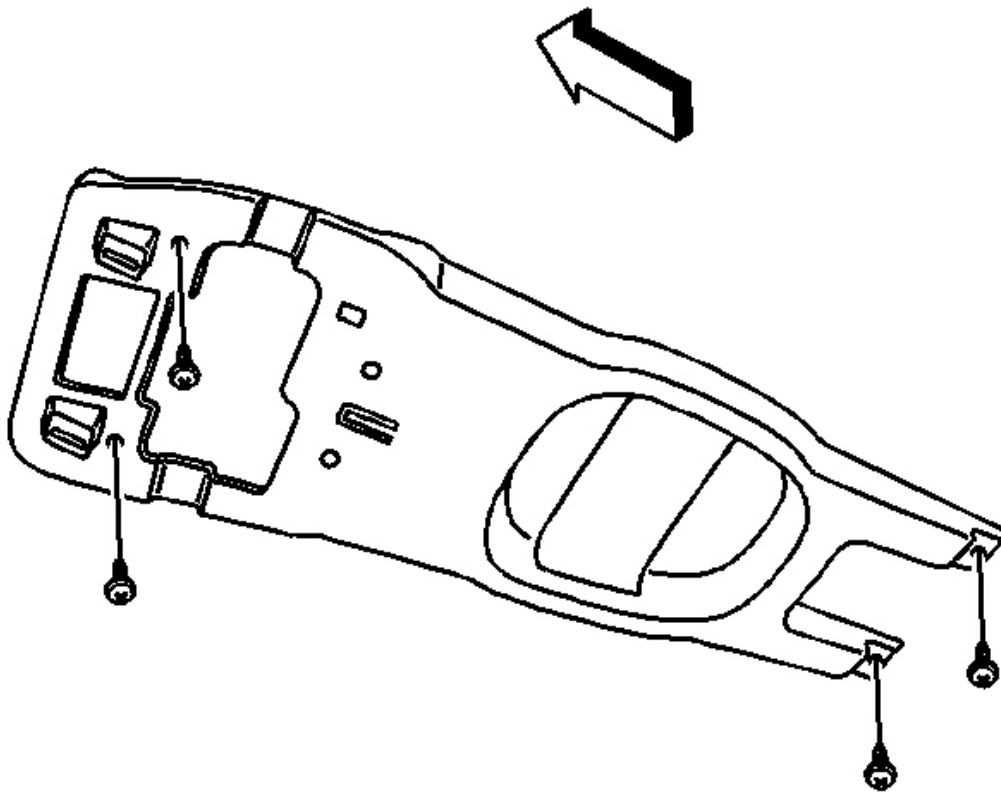
**Tighten:** Tighten the screws to 1.2 N.m (10 lb in).

9. Install the dome lamp lenses.

## **ROOF CONSOLE RETAINER REPLACEMENT**

### **Removal Procedure**

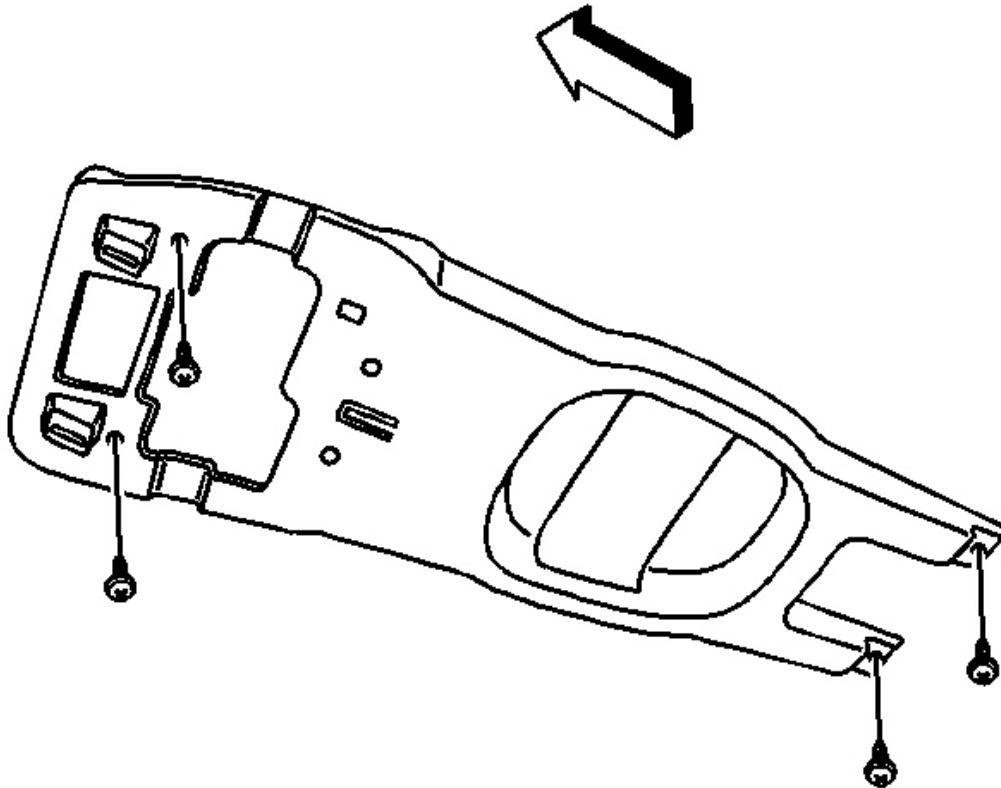
1. Lower the headliner. Refer to **Headlining Trim Panel Replacement** .



**Fig. 69: Screws Securing Console Retainer To Z Clips**  
Courtesy of GENERAL MOTORS CORP.

2. Remove the 4 screws securing the console retainer to the Z clips.
3. Remove the roof retainer from the vehicle.
4. If replacing the roof retainer, remove the Z clips from the roof panel.

### **Installation Procedure**



**Fig. 70: Screws Securing Console Retainer To Z Clips**  
Courtesy of GENERAL MOTORS CORP.

1. If replacing the roof retainer, install the roof retainer the roof panel ensuring the Z clips are fully seated.
2. If installing the existing roof retainer, position the roof retainer to the roof panel.

**NOTE:** Refer to Fastener Notice .

3. Partially install the 4 screws retaining the roof retainer to the Z clips.

**Tighten:** Tighten the roof retainer attachment screws to 1.2 N.m (10 lb in).

4. Install the headliner. Refer to Headlining Trim Panel Replacement .