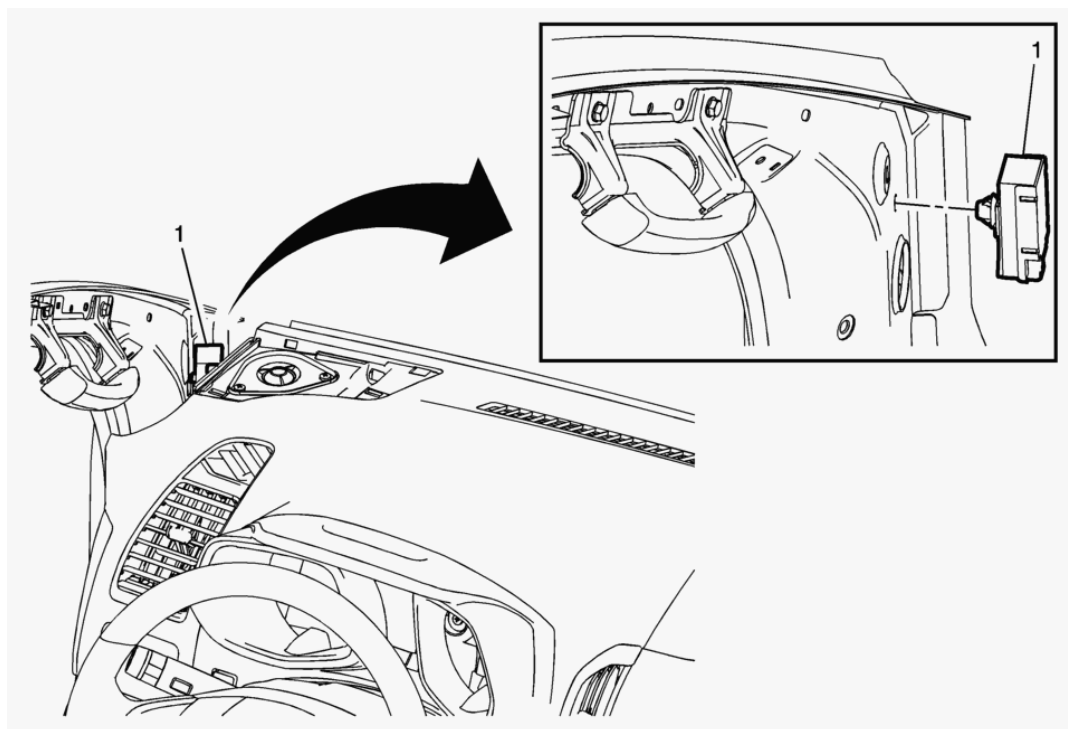


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High Frequency Radio Audio Speaker Filter Replacement

Callout

Component Name

Preliminary Procedure

Remove the windshield side garnish molding. Refer to Windshield Side Garnish Molding Replacement.

Callout

Component Name

1

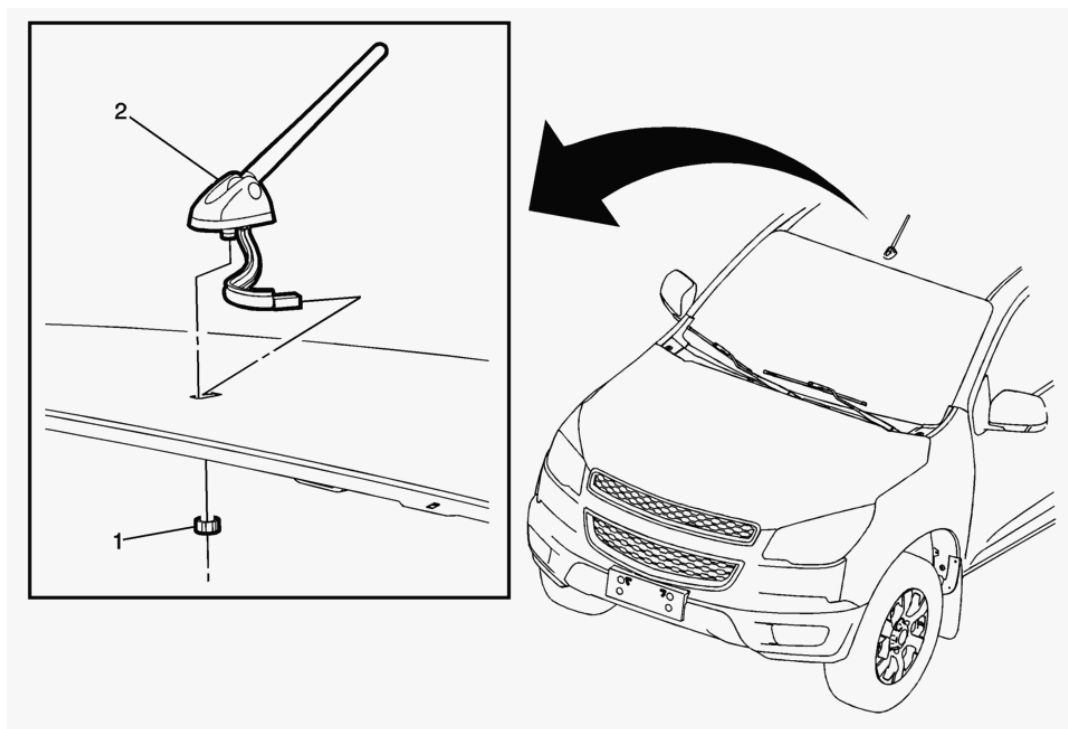
High Frequency Radio Audi Speaker Filter

Procedure

Disconnect the electrical connector.

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Radio Antenna Base Replacement

Callout

Component Name

Preliminary Procedure

Lower the front of the headlining trim panel. Refer to Headlining Trim Panel Replacement.

Callout

Component Name

1

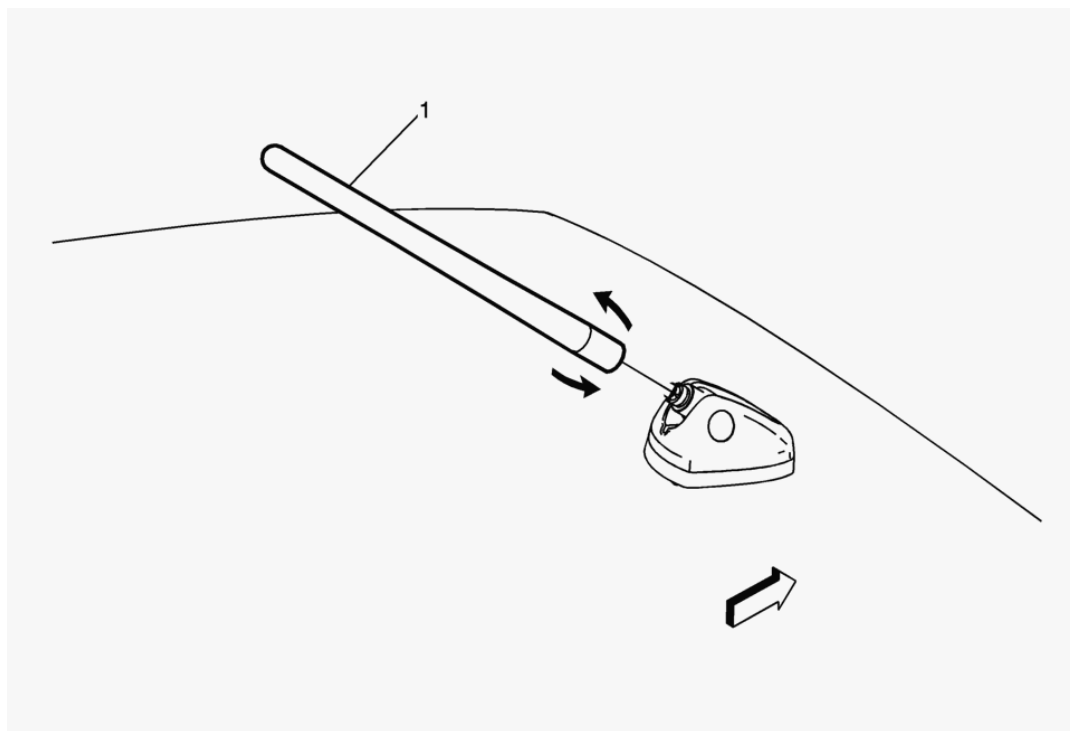
Radio Antenna Base Fastener
Caution: Refer to Fastener Caution.
Tighten
9 Y (80 lb in)

2

Radio Antenna Base
Procedure
Disconnect the electrical connector.

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Radio Antenna Replacement

Callout

1

Radio Antenna

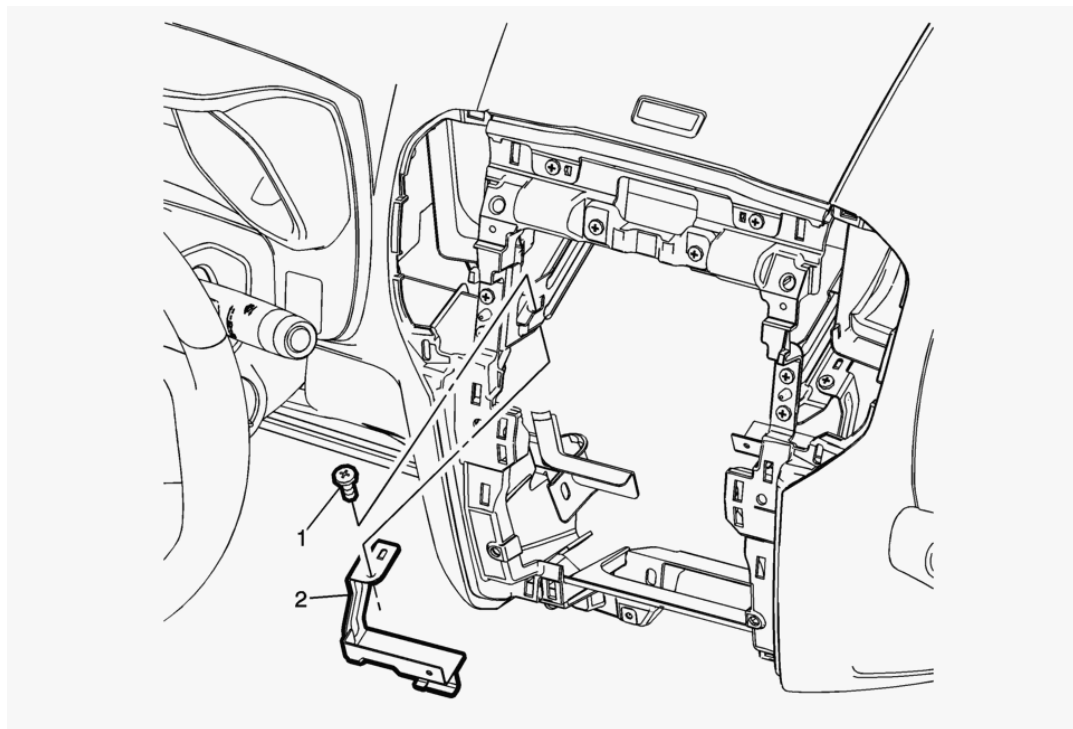
Procedure

Rotate the mast counterclockwise in order to release the mast from the antenna base.

Component Name

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Radio Bracket Bracket Replacement

Callout

Component Name

Preliminary Procedure

Remove the radio. Refer to Radio Replacement.

Callout

1

Radio Bracket Fastener (Qty: 2)

Caution: Refer to Fastener Caution.

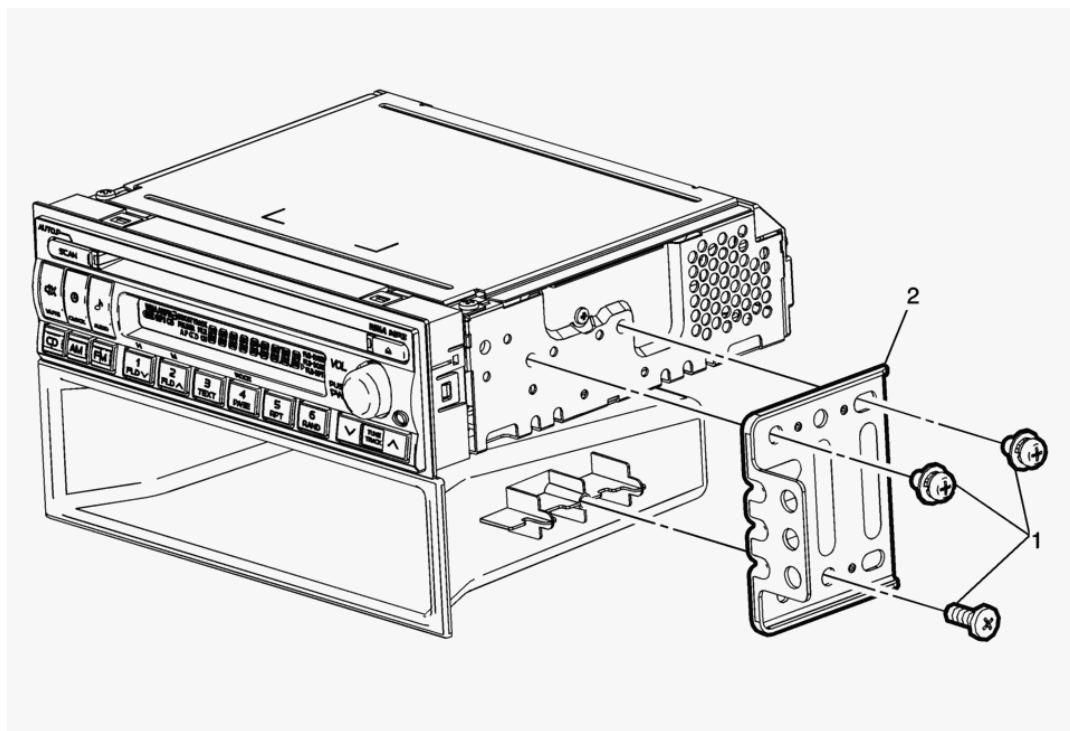
2

Radio Bracket Bracket (Qty: 2)

Component Name

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Radio Bracket Replacement

Callout

Component Name

Preliminary Procedure

Remove the radio. Refer to Radio Replacement.

Callout

1

Radio Bracket Fastener (Qty: 6)

Caution: Refer to Fastener Caution.

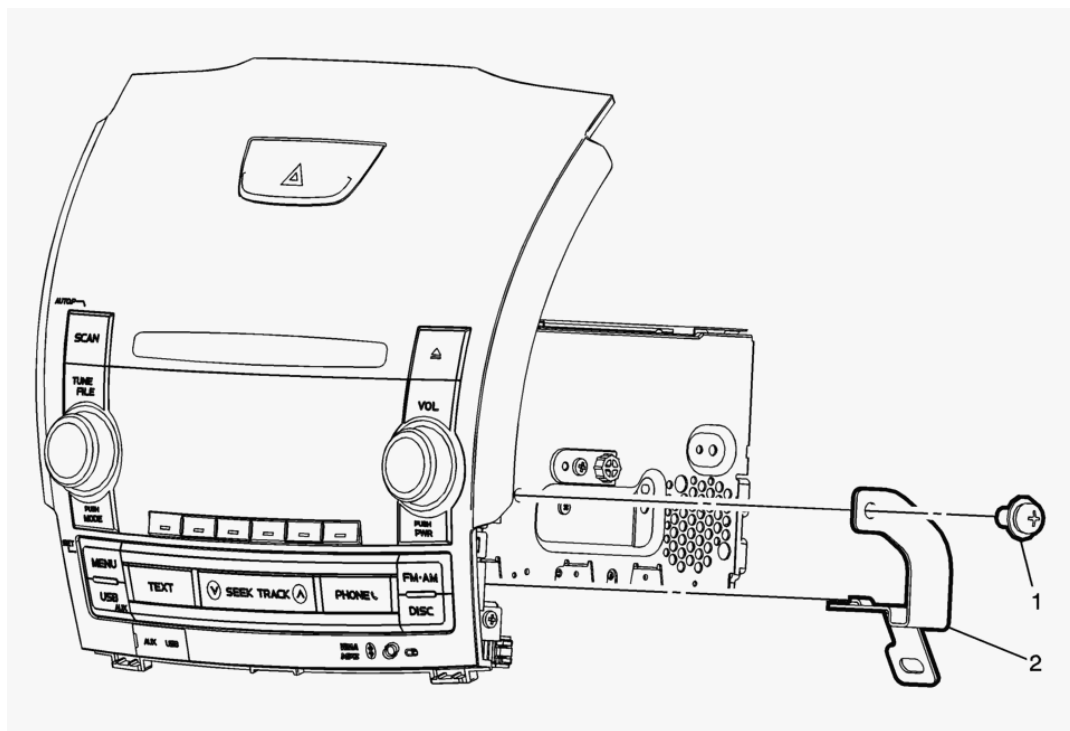
2

Radio Bracket (Qty: 2)

Component Name

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Radio Bracket Replacement

Callout

Component Name

Preliminary Procedure

Remove the radio. Refer to Radio Replacement.

Callout

1

Radio Bracket Fastener (Qty: 2)

Caution: Refer to Fastener Caution.

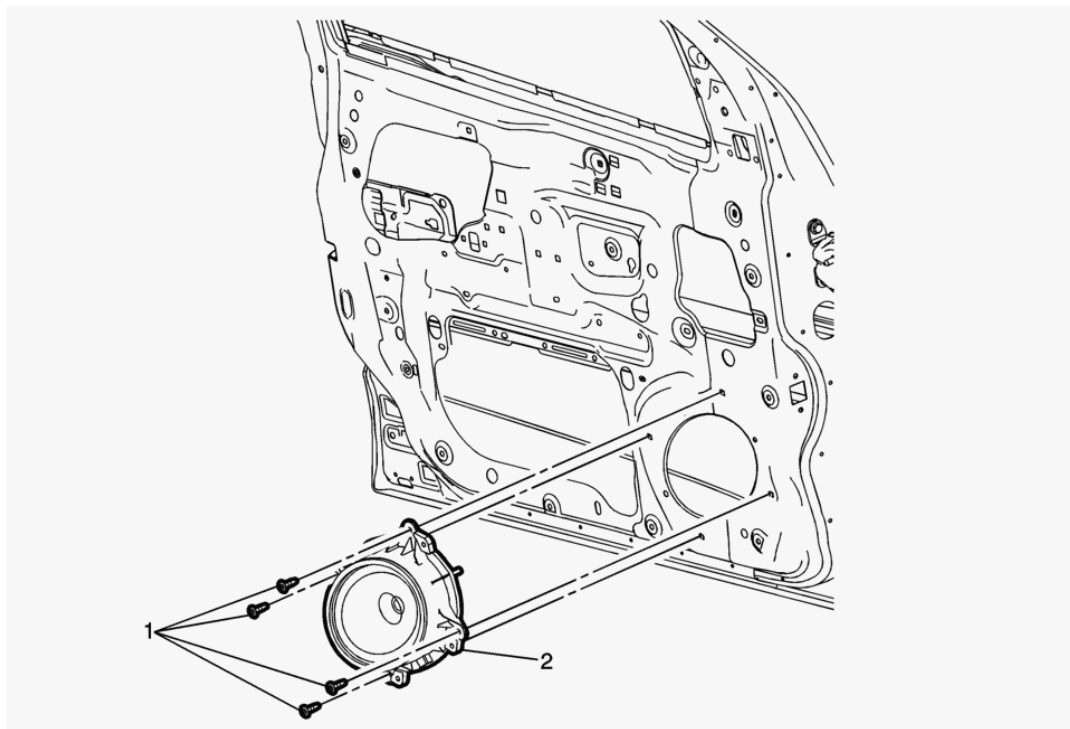
2

Radio Bracket (Qty: 2)

Component Name

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Radio Front Side Door Speaker Replacement

Callout

Component Name

Preliminary Procedure

Remove the front side door trim panel. Refer to Front Side Door Trim Panel Replacement.

Callout

Component Name

1

Radio Front Side Door Speaker Fastener (Qty: 4)

Caution: Refer to Fastener Caution.

2

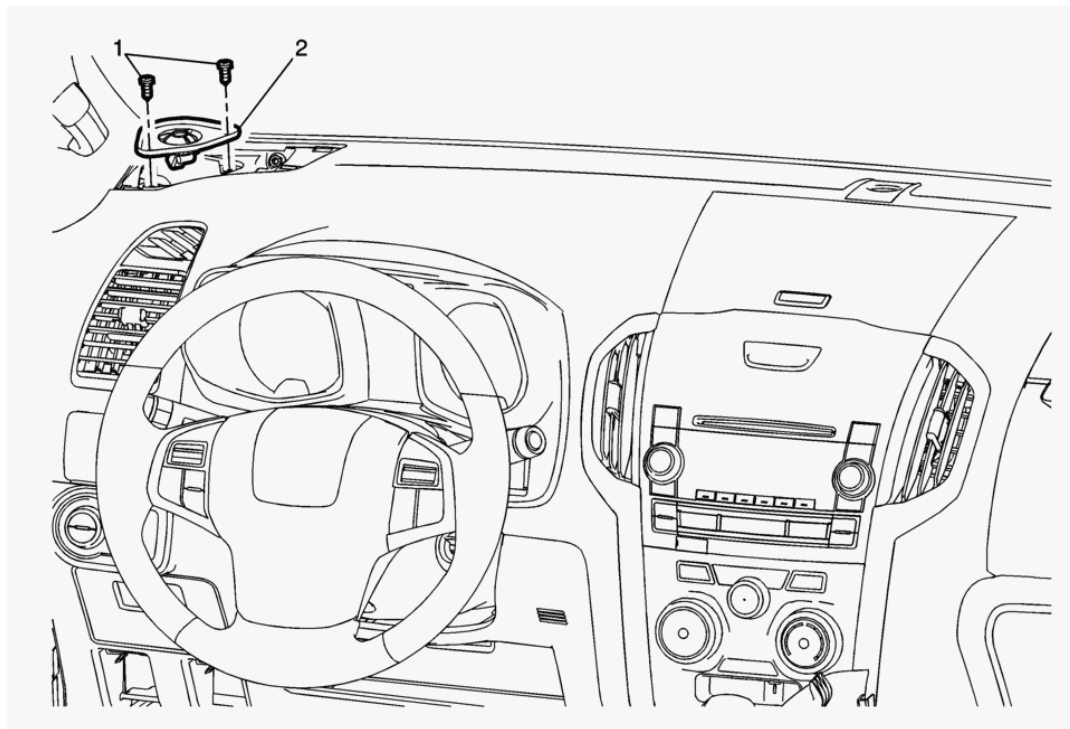
Radio Front Side Door Speaker

Procedure

Disconnect the electrical connector.

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Radio Front Side Door Upper Speaker Replacement

Callout

Component Name

Preliminary Procedure

Remove the instrument panel accessory trim plate grille. Refer to Instrument Panel Accessory Trim Plate Grille Replacement.

Callout

Component Name

1

Radio Front Side Door Upper Speaker Fastener (Qty: 2)

Caution: Refer to Fastener Caution.

2

Radio Front Side Door Upper Speaker

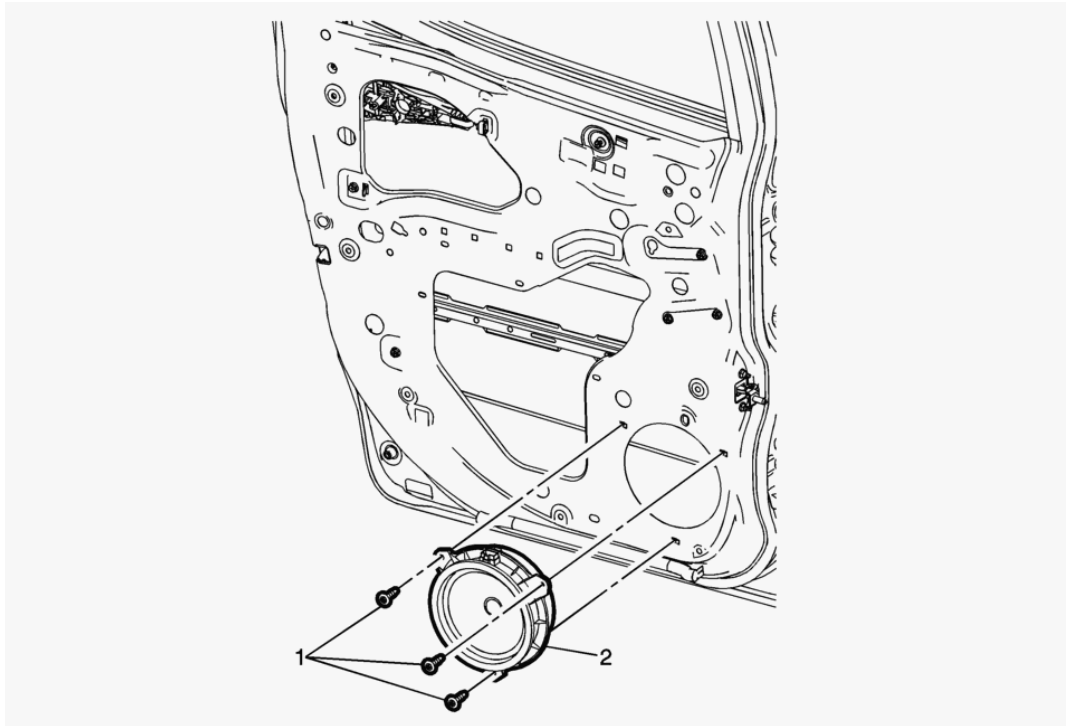
Procedure

Disconnect the electrical connector.

Note: Left side speaker shown, right side is similar.

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Radio Rear Side Door Speaker Replacement

Callout

Component Name

Preliminary Procedure

Remove the rear side door trim. Refer to Rear Side Door Trim Panel Replacement.

Callout

Component Name

1

Radio Rear Side Door Speaker Fasteners (Qty: 3)

Caution: Refer to Fastener Caution.

2

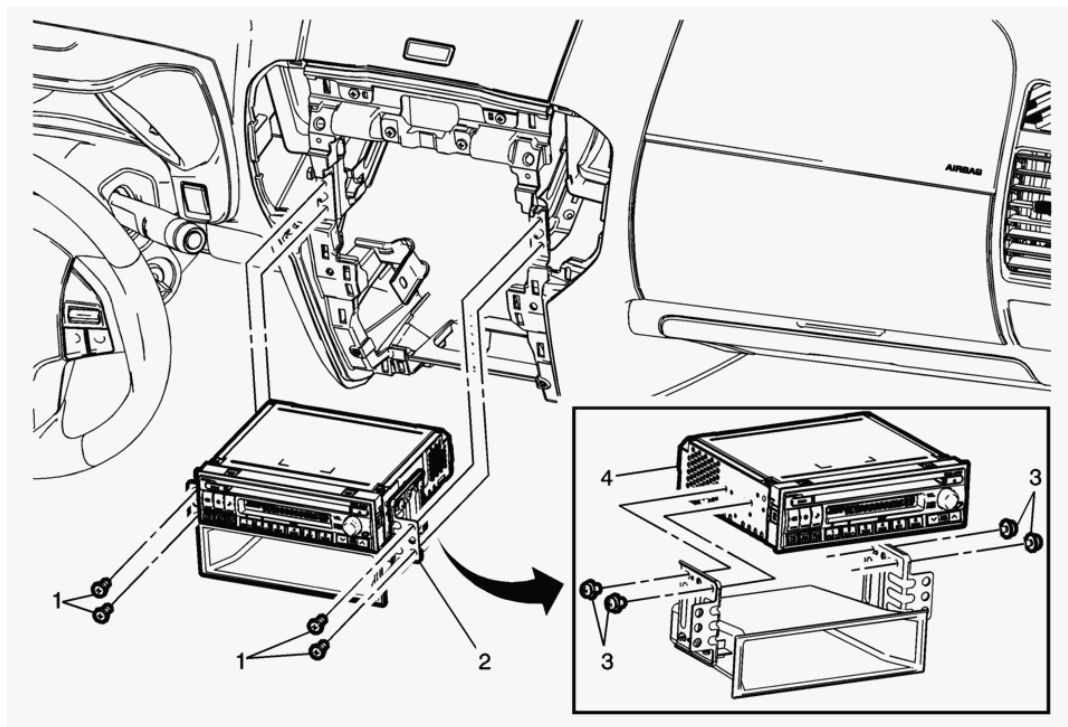
Radio Rear Side Door Speaker

Procedure

Disconnect the electrical connectors.

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Radio Replacement

Callout

Component Name

Preliminary Procedure

Remove the instrument panel center trim plate. Refer to Instrument Panel Center Trim Plate Replacement.

Callout

Component Name

1

Radio Bracket Fastener (Qty: 4)

Caution: Refer to Fastener Caution.

Tighten

8 Y (71 lb in)

2

Radio Bracket (Qty: 2)

3

Radio Fastener (Qty: 4)

Caution: Refer to Fastener Caution.

4

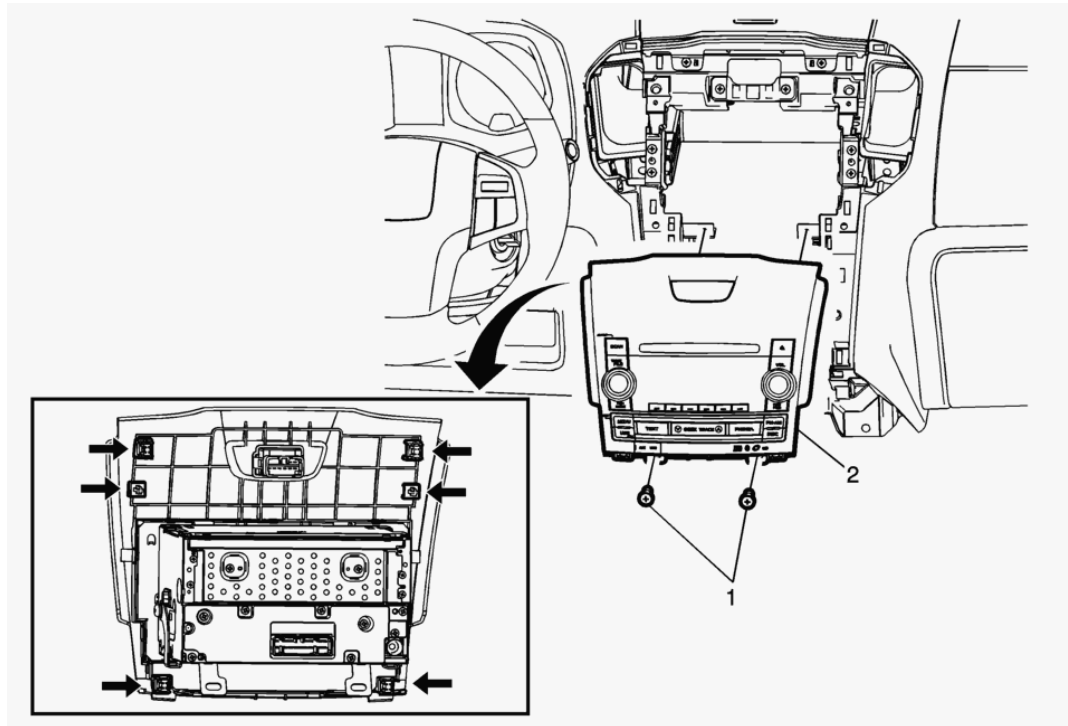
Radio

Procedure

1. Disconnect the electrical connectors.
2. Refer to Control Module References for programming and set up information.

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Radio Replacement

Callout

Component Name

Preliminary Procedure

Remove the automatic heater and air conditioning control. Refer to Heater and Air Conditioning Control Replacement or the manual heater and air conditioning control. Refer to Heater and Air Conditioning Control Replacement.

Callout

Component Name

1

Radio Fastener (Qty: 2)

Caution: Refer to Fastener Caution.

Radio Assembly

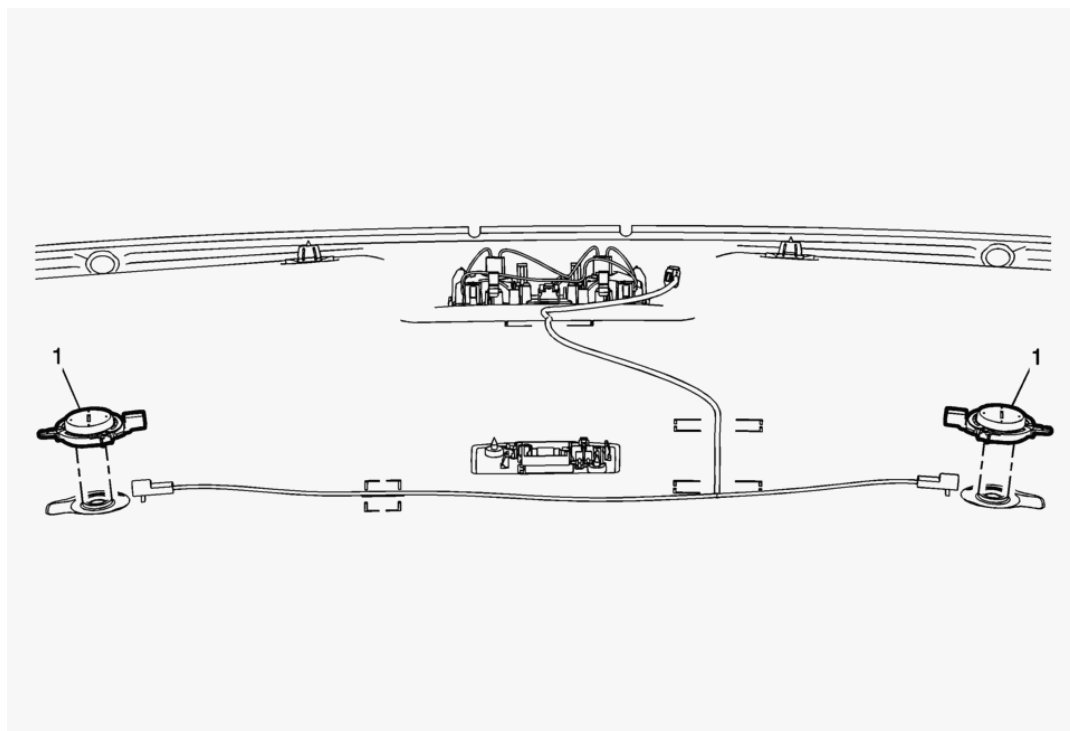
Procedure

2

1. Using the appropriate tool, gently pull assembly forward, releasing the six tabs.
2. Disconnect the electrical connections.
3. Refer to Control Module References for programming and setup information.

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Radio Roof Speaker Replacement

Callout

Component Name

Preliminary Procedure

Remove the headlining trim panel. Refer to Headlining Trim Panel Replacement.

Callout

Component Name

Radio Roof Speaker

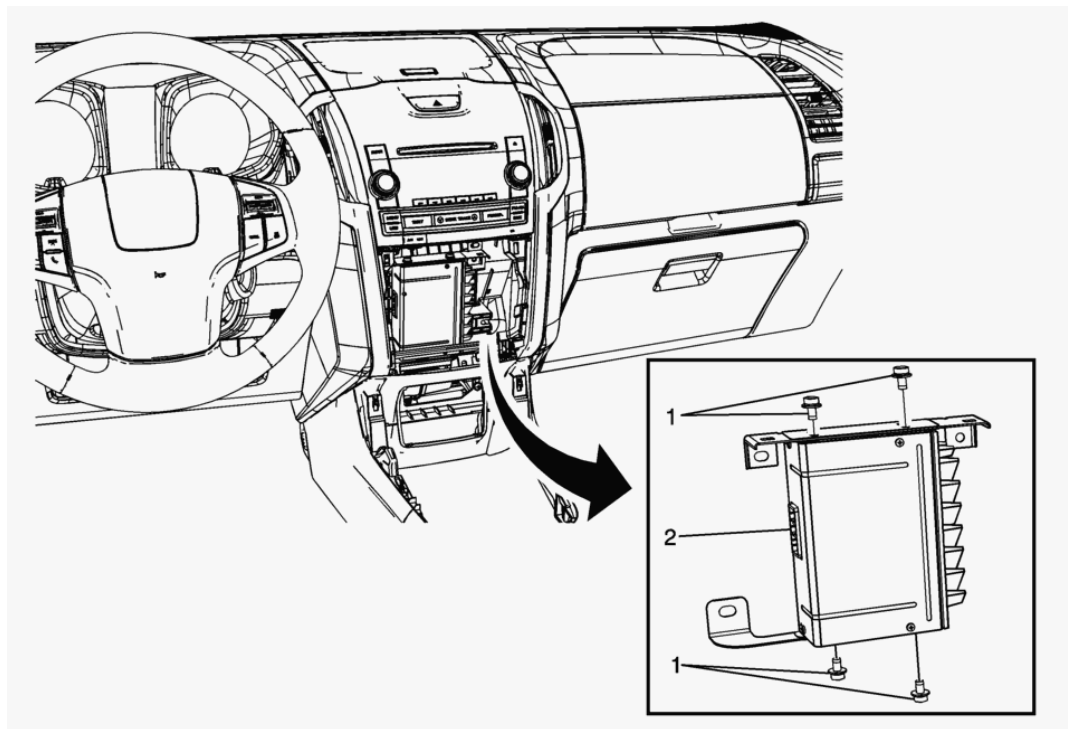
Procedure

1

1. Disconnect electrical connector.
2. Unscrew speaker from bracket on headliner assembly.

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Radio Speaker Amplifier Replacement

Callout

Component Name

Preliminary Procedure

1. Remove the front floor console transmission shift opening bezel. Refer to Front Floor Console Transmission Shift Opening Bezel Replacement.
2. Remove the heater and air conditioning control. Refer to Heater and Air Conditioning Control Replacement.

- 1 Radio Speaker Amplifier Fasteners (Qty: 4)
- Caution:** Refer to Fastener Caution.

- Radio Speaker Amplifier
- Procedure**

- 2
1. Disconnect the electrical connectors.
 2. For programming and set up information, refer to Control Module References.

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[Radio System Components](#)

The entertainment system on this vehicle is available in two different configurations.

The entertainment system on this vehicle is configured with either a 1DIN or a 2DIN system. Both systems contain a radio, antenna, and up to 8 speakers, depending on the speaker configuration. The 2DIN system differs from the 1DIN system by providing the customer with enhanced audio system features. Some of those features may include steering wheel controls, auxiliary input jack, USB port, or bluetooth communication system.

Each item in the list below represents topics covered in detail below.

- Radio Circuit Operation
- Antenna System
- AM/FM Reception
- Speaker Operation
- Radio Data System (RDS) (if equipped)
- MP3/CD Formatting Information for MP3/CD Radios (if equipped)
- Steering Wheel Controls (if equipped)
- Auxiliary Input Jack (if equipped)
- USB Input Jack (if equipped)
- Bluetooth Communication System (if equipped)

[Radio Circuit Operation](#)

Radio Power

The radio is supplied with power by a fused B+ circuit. The radio uses a discrete ignition feed circuit for power moding.

Radio Grounds

The vehicle harness provides a ground for the radio circuits. The radio may also be case grounded.

Radio Outputs

At minimum volume, the plus (+) and minus (–) speaker outputs are approximately half battery voltage, measured to vehicle ground. As the volume increases, the plus and minus change to create a voltage difference between each other either driving the voice coil of the speaker, or being fed to an amplifier.

[Antenna System](#)

Fixed Mast Antenna

The fixed mast antenna can withstand most car washes without being damaged. If the mast should ever become slightly bent, straighten it out by hand. If the mast is badly bent, replace it.

[AM/FM Reception](#)

Radio Signal

The radio signal is sent from a broadcast station and is then received by an antenna. The strength of the signal received depends on the following:

- The power output (wattage) of the broadcasting station
- The location of the vehicle (or receiver) relative to the broadcast tower.
- Obstacles between the tower and the receiver
- Atmospheric conditions
- What band (AM or FM) the station is broadcasting
- Type of antenna and the ground plane

AM Reception

The AM band has a lower frequency range than the FM band. These longer wavelengths:

- Bend around obstacles
- Follow the curvature of the earth
- May reflect off the ionosphere (skip)

The AM frequencies have longer range due to the ground wave. The ground wave follows the curvature of the earth and is effected by its conductivity. Greater conductivity equates to less signal loss thus transmission over water is better than over land. The AM band has a range of 80–320 km (50–200 mi).

FM Reception

The shorter wavelengths of the higher frequency FM band:

- Reflect off obstacles
- Are absorbed by the ground
- Penetrate the ionosphere

Broadcasts in the FM band are limited to "line of sight" reception which is typically 40 km (25 mi). Even when out of a direct line of sight, the signal may be reflected into areas that may be in a "shadow" otherwise. Factors which affect the line of sight include:

- Height of the broadcast antenna
- Height of the receiving antenna
- Terrain and buildings in the broadcast path

[Speaker Operation](#)

Speakers turn electrical energy into mechanical energy to move air, using a permanent magnet and an electromagnet. The electromagnet is energized when the radio or amplifier (if equipped) delivers current to the voice coil on the speaker. The voice coil will form a north and south pole that will cause the voice coil and the speaker cone to move in relation to the permanent magnet. The current delivered to the speaker is rapidly changing alternating current (A/C). This causes the speaker cone to move in two directions producing sound. When the speaker is at rest, such as when the volume at a minimum value, the voltage applied to each side of the speaker is half ignition system voltage. This way, the speaker cone can be moved in either direction.

[Radio Data System \(RDS\) \(If Equipped\)](#)

The radio may be equipped with the Radio Data System (RDS). The RDS feature is available only on FM stations that broadcast RDS information. This system relies upon receiving specific information from these stations and only works when the information is available. While the radio is tuned to an FM RDS station, the station name or call letters display.

RDS data is carried in what is known as a "subcarrier". A subcarrier is a frequency that the FM broadcaster is authorized to use to send data that is not audible in the main audio program.

- RDS functions will only work with FM broadcast stations that are broadcasting RDS data.
- Not all FM Broadcast stations broadcast RDS data or offer all of the RDS services.
- The information displayed is dependent upon the information broadcast by the particular station. The information may vary greatly between stations.
- RDS functions may not work properly when reception is weak, reception is of poor quality, or RDS is not implemented properly by the FM Broadcaster.
- In some cases, a radio station broadcasting incorrect information may cause the RDS features of the radio to appear to work improperly

With RDS, the radio can do the following:

- Seek to stations broadcasting the selected type of programming
- Receive announcements concerning local and national emergencies
- Display messages from radio stations

RDS may display text information such as:

- The name of the station.
- The type of program
- General information such as artist and song title, call in phone numbers, etc.

MP3/CD Formatting Information for MP3/CD Radios

The MP3/CD equipped radios will play standard audio CDs, and MP3/WMA files that were recorded on a CD-R or CD-RW disc. Customers who record their own music CDs should be aware of the following:

- The radio will only play audio from a CD-R/RW, it cannot record audio.
- Standard audio and MP3/WMA files should not be mixed on a disc.
- Song title, artist name, and album can display when files are recorded using ID3 tags version 1 and 2.
- Long file, folder, or playlist names, or a combination of a large number of files and folders, or playlists can cause the player to be unable to play up to the maximum number of files, folders, playlists, or sessions.
- The radio supports multi-session discs, but only the files from the last session will be played.

Steering Wheel Controls (if equipped)

Some audio functions are available using the steering wheel controls. The steering wheel controls duplicate the function of the primary controls available on the radio.

For additional information on steering wheel controls, refer to Steering Wheel Controls Description and Operation.

Auxiliary Input Jack (if equipped)

The 2DIN radio system has a 3.5 mm (0.14 in) auxiliary input jack located in the faceplate. An external audio device such as a MP3 player, CD changer, laptop computer, cassette tape player, etc. can be connected to the auxiliary input jack for use as another source for audio listening. This is not an audio output; do not plug a headphone set into the auxiliary input jack.

USB Input Jack (if equipped)

The 2DIN radio system has an USB input jack which makes it possible to play digital audio stored on an USB device via your vehicle sound system simply by connecting it to the USB port on the faceplate.

Bluetooth Communication System (If equipped)

The Bluetooth communication system, integrated to the 2DIN radio system allows a mobile phone (equipped with Bluetooth) to be used through the hands-free system in the vehicle without the need for connections, making it possible to keep within the law and to drive safely and comfortably. The microphone is internal to the radio, located in the faceplate. In the steering wheel controls is one button to switch the hands-free system ON and OFF. The main functions like phone menu, dialing or call options are controlled by the radio buttons.

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Speaker Replacement Reference	
Component	Repair Instruction
Front Door Speaker	Radio Front Side Door Speaker Replacement
Front Tweeter Speaker	Radio Front Side Door Upper Speaker Replacement
Rear Door Speaker	Radio Rear Side Door Speaker Replacement
Subwoofer Speaker (exciter)	Radio Roof Speaker Replacement