

2009 ACCESSORIES AND EQUIPMENT**Audio and Video - Service Information - Journey****DESCRIPTION****DESCRIPTION**

Several combinations of radio receivers and speaker systems are offered. The audio system uses an ignition switched source of battery current so that the system will only operate when the ignition switch is in the RUN or ACCESSORY positions.

The audio system includes the following components:

- Antenna (Radio and Satellite)
- Power amplifier (with premium speaker system only)
- Radio noise suppression components
- Radio receiver
- Remote radio switches (if equipped)
- Satellite Receiver (integrated within the radio)
- Speakers

OPERATION**OPERATION**

The audio system components are designed to provide audio entertainment and information through the reception, tuning and amplification of locally broadcast radio signals in both the Amplitude Modulating (AM) and Frequency Modulating (FM) commercial frequency ranges.

The audio system components operate on battery current received through a fuse in the Power Distribution Center (PDC) (Diesel Only) or the Totally Integrated Control Module (TIPM) on a fused ignition switch output (run-acc) circuit so that the system will only operate when the ignition switch is in the Run or Accessory positions.

DIAGNOSIS AND TESTING**VIDEO****VIDEO SYSTEM DIAGNOSIS**

CONDITION	POSSIBLE CAUSES	CORRECTION
NO VIDEO (DVD PLAYER WILL NOT	1. Fuse inoperative.	1. Check fuses. Replace fuses if required.
	2. Loose or damaged	2. Check for loose or corroded DVD player connector

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LOAD OR EJECT)	DVD player connector	(16 pin). Repair or replace as required.
	3. Loose or damaged wiring/DVD player inoperative	3. Check pin 1 (b+) and pin 9 (ground) of the 16 pin connector, then check pin 1 (b+) and pin 7 (ground) of the 12 pin connector. If the 16 pin connector does not show voltage, the 12 pin connector will not show voltage (the 12 pin is fed from the 16 pin). If voltage is ok on the 16 pin, but not present on the 12 pin, unplug the 12 pin harness from the player and check the connector pins on the back of the player. If voltage is present on the 12 pin connector, the screen or the 12 pin harness should be replaced. If there is still no voltage on the 12 pin connector, the DVD player should be replaced.
	4. Ground connection damaged	4. Check for continuity between DVD player and a known good ground. There should be continuity. Repair ground if required.
	5. DVD player damaged	5. Exchange or replace DVD player if required.
	6. DVD damaged. NOTE: Avoid using CD's or DVD's that have adhesive type labels, as they may cause the disc to become jammed.	6. Insert known good DVD and test operation.
NO DISPLAY. AUDIO HEARD THROUGH SPEAKERS	1. Loose or damaged connectors	1. Check for loose or corroded DVD player connector (12 pin). Check for loose or corroded video screen connector. Repair if required. Check for loose or damaged in-line connector.
	2. Wiring damaged	2. With harness connected, check for video signal voltage at DVD player and at video screen harness. Place known good DVD into DVD player. Place positive lead of voltmeter on pin 5 (video signal) of the 12 pin connector. Place negative lead on pin 6 (video ground). Readings should be between 0.1v to 2v dc.
	3. Video screen damaged	3. Exchange or replace video screen if required.
WHITE DISPLAY	1. Low voltage	1. Check for battery voltage (9v-16v) at DVD player 12 pin connector (pin 1-battery, pin 7-ground). Display will be white if voltage drops below 6v.
	2. Video screen damaged	2. Exchange or replace video screen if required.

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DARK OR BRIGHT SPOTS ON SCREEN	1. Brightness setting requires adjustment.	1. Adjust brightness setting of video screen by pressing buttons on side of video screen until desired level is reached. Start with a black screen, then press button up 16-20 times. There are 64 total steps of brightness.
BRIGHT OR DARK DISPLAY	1. Video screen display pixel defect.	1. The acceptable level of dots on the screen is (green-1, red-2) or a total (green+red+blue+white+black) = 8. Replace or exchange video screen if necessary.
VIDEO SELECTIONS DO NOT APPEAR FULL SCREEN WIDTH -	1. Aspect ratio is set incorrectly.	1. Using mode button, adjust until video appears correctly.
	2. Some DVD's are two sided. One side is wide screen format and the other is full screen or there may be a wide screen or standard screen format on the disc.	2. Ensure that DVD is inserted correctly.
BUTTONS ON VIDEO SCREEN INOPERATIVE	1. Video screen damaged.	1. Place known good DVD into DVD player. Once image appears on video screen, press top button on side of video screen to adjust width of display. Press bottom buttons to adjust brightness. Once DVD menu appears on video screen, press middle button on video screen. Highlighted selection will begin to play. If any of the buttons do not function, replace or exchange video screen.

AUDIO

Any diagnosis of the Audio system should begin with the use of the scan tool. For information on the use of the scan tool, refer to the appropriate Diagnostic Service information.

For complete circuit diagrams, refer to SYSTEM WIRING DIAGRAMS .

WARNING: Disable the airbag system before attempting any steering wheel, steering column, seat belt tensioner, side airbag or instrument panel component diagnosis or service. Disconnect and isolate the negative battery (ground) cable. Wait two minutes for the airbag system capacitor to discharge before performing further diagnosis or service. This is the only sure way to disable the airbag system. Failure to follow these instructions may result in accidental airbag deployment and possible serious or fatal injury.

AUDIO SYSTEM DIAGNOSIS

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CONDITION	POSSIBLE CAUSES	CORRECTION
NO AUDIO AT ALL SPEAKERS - RADIO DISPLAY AND CONTROLS ARE OPERATIONAL	1. Amplifier fuse faulty, if equipped.	1. Check and replace fuses, if required.
	2. Radio faulty.	2. Exchange or replace radio, if required.
	3. Wiring to amplifier faulty, if equipped.	3. Verify radio on/off input to amplifier and verify battery and ground connections. Repair wiring as necessary.
	4. Amplifier faulty, if equipped.	4. Replace amplifier.
NO AUDIO AT SOME SPEAKERS - RADIO DISPLAY AND CONTROLS ARE OPERATIONAL	1. Radio faulty.	1. Exchange or replace radio, if required.
	2. Speaker(s) faulty.	2. Refer to speaker diagnostics.
	3. Wiring faulty between radio and speaker.	3. Check wiring for open or short, repair wiring as necessary.
	4. Wiring faulty between radio and amplifier.	4. Refer to speaker diagnostics. Repair wiring as necessary.
	5. Wiring faulty between amplifier and speaker.	5. Repair wiring as necessary.
	6. Amplifier faulty.	6. Replace amplifier.
POOR AUDIO AT ALL SPEAKERS - RADIO DISPLAY AND CONTROLS ARE OPERATIONAL	1. Radio faulty.	1. Exchange or replace radio, if required.
	2. Power/ground wiring open or shorted.	2. Repair wiring as necessary.
	3. Amplifier faulty.	3. Replace amplifier.
	4. Power/ground wiring to amplifier open or shorted.	4. Repair wiring as necessary.
POOR AUDIO AT SOME SPEAKERS - RADIO DISPLAY AND CONTROLS ARE OPERATIONAL	1. Radio faulty.	1. Exchange or replace radio, if required.
	2. Speakers faulty.	2. Refer to speaker diagnostics.
	3. Wiring faulty between radio and speaker.	3. Check wiring for open or short, repair wiring as necessary.
	4. Wiring faulty between radio and amplifier.	4. Refer to speaker diagnostics. Repair wiring as necessary.
	5. Wiring faulty between amplifier and speaker.	5. Wiring faulty between amplifier and speaker.
	6. Amplifier faulty.	6. Replace amplifier.

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SOUND DISTORTION (VIBRATION FROM SPEAKER AREA, BUZZING - HUMMING)	1. Door trim panel loose or missing fasteners.	1. Inspect door trim panel and correct as necessary. Replace any missing fasteners.
	2. Water shield loose or misaligned.	2. Inspect water shield and adjust as required.
	3. Items placed in door trim panel map pockets vibrating or moving from side to side.	3. Remove items from door trim panel. Ensure that vibration is no longer present.
NO RADIO DISPLAY - AUDIO AND CONTROLS ARE OPERATIONAL	1. Radio faulty.	1. Exchange or replace radio, if required.
NO RADIO DISPLAY - AUDIO AND CONTROLS ARE NOT OPERATIONAL	1. Fuse faulty.	1. Check radio fuse and Ignition-Off Draw (IOD) fuse in Junction Block (JB). Replace fuses, if required.
	2. Radio connector faulty.	2. Check for loose or corroded radio connector. Repair, if required.
CLOCK WILL NOT KEEP SET TIME	1. Radio connector faulty.	1. Check for loose or corroded radio connector. Repair, if required.
	2. WIN connector faulty.	2. Check for loose or corroded WIN connector. Repair, if required.
	3. WIN module faulty.	3. Replace WIN, if required. Refer to <u>Electrical - Electronic Control Modules/Electronic Control Modules/RECEIVER, Wireless Ignition Node - Removal</u> .
	4. Radio faulty.	4. Exchange or replace radio, if required.
POOR RADIO RECEPTION WITH KEY IN ACCESSORY OR IGNITION ON POSITION	1. Antenna faulty.	1. <u>BODY AND CABLE, Antenna</u> .
	2. Radio ground faulty.	2. Check for continuity between radio chassis and a known good ground. There should be continuity. Repair ground, if required.
	3. Radio noise suppression faulty.	3. Repair or replace ground strap as necessary.
	4. Radio faulty.	4. Exchange or replace radio, if required.
	5. Faulty rear window defogger.	5. Verify that the rear defogger grid is functioning properly, repair as necessary. Refer to <u>Electrical - Heated/Cooled Systems/Heated Glass - Diagnosis and Testing</u>
NO COMPACT DISC OPERATION	1. Faulty CD.	1. Insert known good CD and test operation.

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-	2. Foreign material on CD.	2. Clean CD and test operation.
-	3. Condensation on CD or optics.	3. Allow temperature of vehicle interior to stabilize and test operation.
-	4. Faulty CD player.	4. Exchange or replace radio, if required.

AMPLIFIER

DESCRIPTION

DESCRIPTION

The optional premium speaker system includes a separate audio power amplifier. The amplifier is an eight channel unit. The amplifier is located behind the right cowl trim panel.

OPERATION

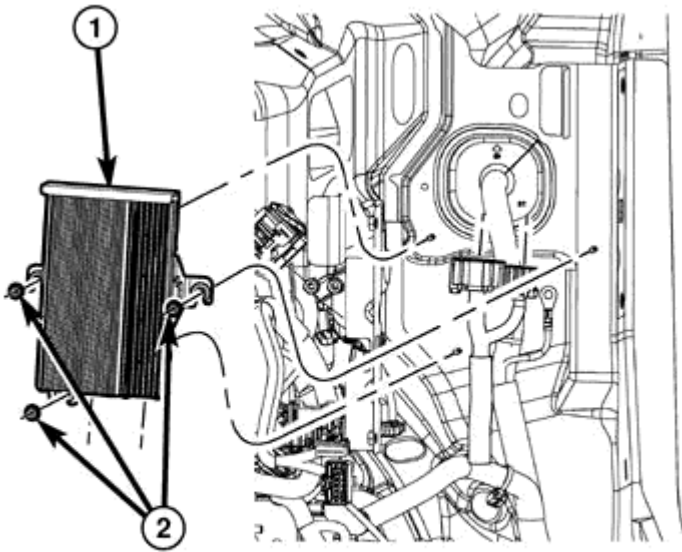
OPERATION

The power amplifier electronically increases the frequency response of the normal audio signal output from the radio amplifier in order to improve the acoustic performance of the speakers. On vehicles equipped with an amplifier, the amplifier information of the radio becomes a pre-amplifier.

The amplifier receives audio signal inputs for speaker channels from the radio, then sends amplified audio outputs through eight separate channels with dedicated feed and return circuits to the individual speakers.

REMOVAL

REMOVAL



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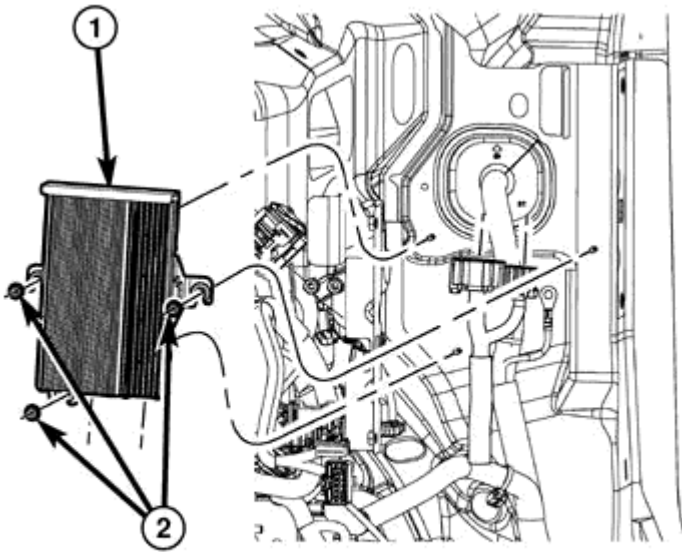
Fig. 1: Amplifier

Courtesy of CHRYSLER LLC

1. Disconnect and isolate the battery negative cable.
2. Lower the glove box as necessary to gain access to the amplifier.
3. Disconnect the electrical connectors.
4. Loosen the mounting fasteners and remove the amplifier and bracket.
5. Remove the amplifier from the bracket.

INSTALLATION

INSTALLATION



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Fig. 2: Amplifier

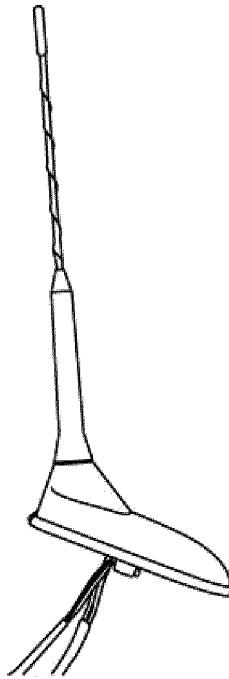
Courtesy of CHRYSLER LLC

1. Install the amplifier to the mounting bracket.
2. Install amplifier. Tighten the forward screw to 3 N.m (26.5 in. lbs.) and the rear nut to 2 N.m (18 in. lbs.).
3. Connect the electrical connectors.
4. Raise the glove box.
5. Connect the battery negative cable.

ANTENNA, SATELLITE, AUDIO

DESCRIPTION

DESCRIPTION



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Fig. 3: Satellite Audio**Courtesy of CHRYSLER LLC**

If the vehicle is equipped with satellite audio, a combined antenna for AM/FM and satellite is used. For removal. See **Removal** and for installation, see **Installation** .

REMOVAL

REMOVAL

1. Disconnect and isolate the battery negative cable.
2. Lower the appropriate portion of the headliner as necessary to access the underside of the antenna. Refer to **Body/Interior/HEADLINER - Removal** .
3. Disconnect the antenna electrical connectors.
4. Remove the fastener and retainer.
5. From inside the vehicle, using a flat bladed tool, depress one of the retaining tabs on the antenna. Push one side of the antenna connector through the roof panel. Depress the other side of the connector and remove the antenna.

INSTALLATION

INSTALLATION

1. Insert the antenna electrical connector through the hole in the roof panel.
2. Press the antenna into position until both retainers snap into place. Tighten to 9 N.m (80 in. lbs.).
3. Connect the antenna electrical connector to the antenna.

4. Install headliner. Refer to **Body/Interior/HEADLINER - Installation** .
5. Connect negative battery cable.

ANTENNA, SATELLITE, VIDEO

DESCRIPTION

DESCRIPTION

The satellite video antenna cable connects the roof mounted antenna to the satellite receiver. It has two connectors at each end and is routed above the headliner, then down the right side A-pillar to the cowl area.

OPERATION

OPERATION

The satellite video antenna receives signals from orbiting satellites and sends these signals to the satellite receiver module. The satellite video antenna must have open space in which to operate. Items carried on the roof, parking inside etc. can have an effect on the antenna's ability to receive signals.

REMOVAL

REMOVAL

1. Disconnect and isolate the battery negative cable.
2. Lower the appropriate portion of the headliner as necessary, to access the underside of the antenna.
3. Disconnect the electrical connectors from the antenna.
4. Remove the fastener and retainer.
5. From inside the vehicle, using a flat bladed tool, depress one of the retaining tabs on the antenna. Push up one side of the antenna connector through the roof panel. Depress the other side of the connector and remove the antenna.

INSTALLATION

INSTALLATION

1. From inside the vehicle, using a flat bladed tool, depress one of the retaining tabs on the antenna. Push up one side of the antenna connector through the roof panel. Depress the other side of the connector and remove the antenna.
2. Connect the electrical connector to the antenna.
3. Install the headliner. Refer to **Body/Interior/HEADLINER - Installation** .
4. Connect battery negative cable.

BODY AND CABLE, ANTENNA

REMOVAL**REMOVAL**

NOTE: The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.

SATELLITE AUDIO ONLY

1. Disconnect and isolate the battery negative cable
2. Lower the rear portion of the headliner as necessary to gain access to the audio antenna. Refer to **Body/Interior/HEADLINER - Removal** .
3. Disconnect the antenna cable(s).
4. Remove antenna mast by unscrewing mast from antenna body.
5. Remove the fastener from the mounting bracket.
6. Remove the antenna bracket.
7. Remove the antenna base from the roof of the vehicle.
8. Remove the passenger side quarter trim panel. Refer to **Body/Interior/PANEL, Quarter Trim - Removal** .
9. Remove the passenger side C-pillar. Refer to **Body/Interior/PANEL, C-Pillar Trim - Removal** .
10. Remove the passenger side scuff plates. Refer to **Body/Interior/PLATE, Scuff - Removal** .
11. Remove the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Removal** .
12. Remove the glove box. Refer to **Body/Instrument Panel/GLOVE BOX, Instrument Panel - Removal** .
13. Remove the radio. See **Removal** .

CAUTION: Pulling the antenna cable straight out of the radio without pulling on the locking antenna connector could damage the cable or radio.

14. Disconnect the antenna.

SATELLITE AUDIO AND VIDEO**AUDIO CABLE TO MODULE**

NOTE: The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.

1. Disconnect and isolate the battery negative cable.
2. Lower the rear portion of the headliner as necessary to gain access to the audio antenna. Refer to **Body/Interior/HEADLINER - Removal** .
3. Disconnect the antenna cable(s).
4. Remove antenna mast by unscrewing mast from antenna body.

5. Remove the fastener from the mounting bracket.
6. Remove the antenna bracket.
7. Remove the antenna base from the roof of the vehicle.
8. Remove the passenger side quarter trim panel. Refer to **Body/Interior/PANEL, Quarter Trim - Removal** .
9. Remove the passenger side C-pillar. Refer to **Body/Interior/PANEL, C-Pillar Trim - Removal**
10. Remove the passenger side scuff plates. Refer to **Body/Interior/PLATE, Scuff - Removal** .
11. Position the passenger seat forward.

CAUTION: Pulling the antenna cable straight out of the radio without pulling on the locking antenna connector could damage the cable or radio.

12. Disconnect the audio antenna from the module.

VIDEO CABLE TO MODULE

NOTE: The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.

1. Disconnect and isolate the battery negative cable.
2. Lower the front portion of the headliner as necessary to gain access to the video antenna. Refer to **Body/Interior/HEADLINER - Removal** .
3. Disconnect the antenna cable(s).
4. Remove antenna mast by unscrewing mast from antenna body.
5. Remove the fastener from the mounting bracket.
6. Remove the antenna bracket.
7. Remove the antenna base from the roof of the vehicle.
8. Remove the passenger side front scuff plate. Refer to **Body/Interior/PLATE, Scuff - Removal** .
9. Remove the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Removal** .
10. Position the passenger seat forward.

CAUTION: Pulling the antenna cable straight out of the radio without pulling on the locking antenna connector could damage the cable or radio.

11. Disconnect the video antenna from the module.

SIGNAL (RADIO FEED) ANTENNA CABLE FROM MODULE TO COWL

NOTE: The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.

1. Disconnect and isolate the battery negative cable.
2. Remove the passenger side front scuff plate. Refer to **Body/Interior/PLATE, Scuff - Removal** .
3. Remove the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Removal** .
4. Position the passenger seat forward.

CAUTION: Pulling the antenna cable straight out of the radio without pulling on the locking antenna connector could damage the cable or radio.

5. Disconnect the signal (radio feed) antenna from the module.
6. Disconnect the antenna cable from the instrument panel antenna cable in the cowl area.

SIGNAL (RADIO FEED) ANTENNA FROM COWL TO RADIO

NOTE: The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.

1. Disconnect and isolate the battery negative cable.
2. Remove the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Removal** .
3. Remove the glove box. Refer to **Body/Instrument Panel/GLOVE BOX, Instrument Panel - Removal** .
4. Remove the radio. See **Removal** .

CAUTION: Pulling the antenna cable straight out of the radio without pulling on the locking antenna connector could damage the cable or radio.

5. Disconnect the antenna from the radio.

INSTALLATION

INSTALLATION

SATELLITE AUDIO ONLY

NOTE: The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.

1. Route the cable behind the glove box, up to the radio and secure.
2. Connect the antenna to the radio.
3. Install the radio. See **Installation** .
4. Install the glove box. Refer to **Body/Instrument Panel/GLOVE BOX, Instrument Panel - Installation** .
5. Route the antenna cable along the path of the old antenna wiring harness, securing where necessary.
6. Install the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Installation** .

7. Install the passenger side quarter trim panel. Refer to **Body/Interior/PANEL, Quarter Trim - Installation**.
8. Install the passenger side scuff plates. Refer to **Body/Interior/PLATE, Scuff - Installation**.
9. Install the passenger side C-pillar. Refer to **Body/Interior/PANEL, C-Pillar Trim - Installation**.
10. Install the antenna base to the roof of the vehicle.
11. Install the antenna bracket and mounting fastener.
12. Install the antenna cable(s).
13. Install the headliner. Refer to **Body/Interior/HEADLINER - Installation**.
14. Connect the battery negative cable.

SATELLITE AUDIO AND VIDEO**AUDIO CABLE TO MODULE**

NOTE: The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.

1. Connect the antenna cable to the module located under the front passenger seat.
2. Route the antenna cable along the path of the old audio antenna wiring harness, securing where necessary.
3. Install the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Installation**.
4. Install the passenger side quarter trim panel. Refer to **Body/Interior/PANEL, Quarter Trim - Installation**.
5. Install the passenger side scuff plates. Refer to **Body/Interior/PLATE, Scuff - Installation**.
6. Install the passenger side C-pillar. Refer to **Body/Interior/PANEL, C-Pillar Trim - Installation**.
7. Install the antenna base to the roof of the vehicle.
8. Install the antenna bracket and mounting fastener.
9. Install the antenna cable(s).
10. Install the headliner. Refer to **Body/Interior/HEADLINER - Installation**.
11. Position the passenger seat to its original position.
12. Connect the battery negative cable.

VIDEO CABLE TO MODULE

NOTE: The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.

1. Connect the antenna cable to the module located under the passenger seat.
2. Route the antenna cable along the path of the old audio antenna wiring harness, securing where necessary.
3. Install the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Installation**.
4. Install the front passenger side scuff plate. Refer to **Body/Interior/PLATE, Scuff - Installation**.
5. Install the antenna base to the roof of the vehicle.

6. Install the antenna bracket and mounting fastener.
7. Install the antenna cable(s).
8. Install the headliner. Refer to **Body/Interior/HEADLINER - Installation** .
9. Position the passenger seat to its original position.
10. Connect the battery negative cable.

SIGNAL (RADIO FEED) ANTENNA CABLE FROM MODULE TO COWL

NOTE: **The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.**

1. Connect the antenna cable to the instrument panel antenna cable in the cowl area.
2. Route the antenna cable along the path of the old audio antenna wiring harness, securing where necessary.
3. Connect the antenna cable to the module.
4. Install the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Installation** .
5. Install the front passenger side scuff plate. Refer to **Body/Interior/PLATE, Scuff - Installation** .
6. Position the passenger seat to its original position.
7. Connect the battery negative cable.

SIGNAL (RADIO FEED) ANTENNA FROM COWL TO RADIO

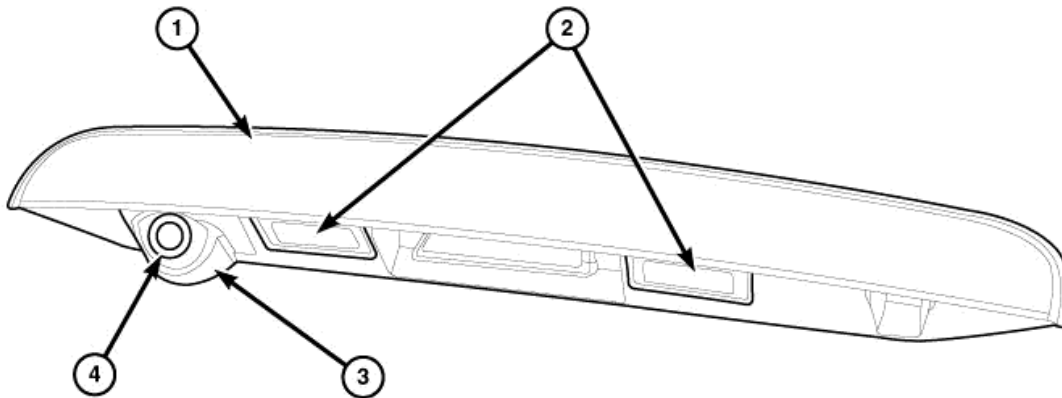
NOTE: **The antenna cables are integrated into the body wiring harnesses. New antenna cables is overlaid on the body wiring harness.**

1. Connect the antenna to the radio.
2. Route the antenna cable along the path of the old audio antenna wiring harness, securing where necessary.
3. Install the radio. See **Installation** .
4. Install the glove box. Refer to **Body/Instrument Panel/GLOVE BOX, Instrument Panel - Installation** .
5. Install the passenger side cowl panel. Refer to **Body/Interior/PANEL, Cowl Trim - Installation** .
6. Connect the battery negative cable.

CAMERA

DESCRIPTION

DESCRIPTION



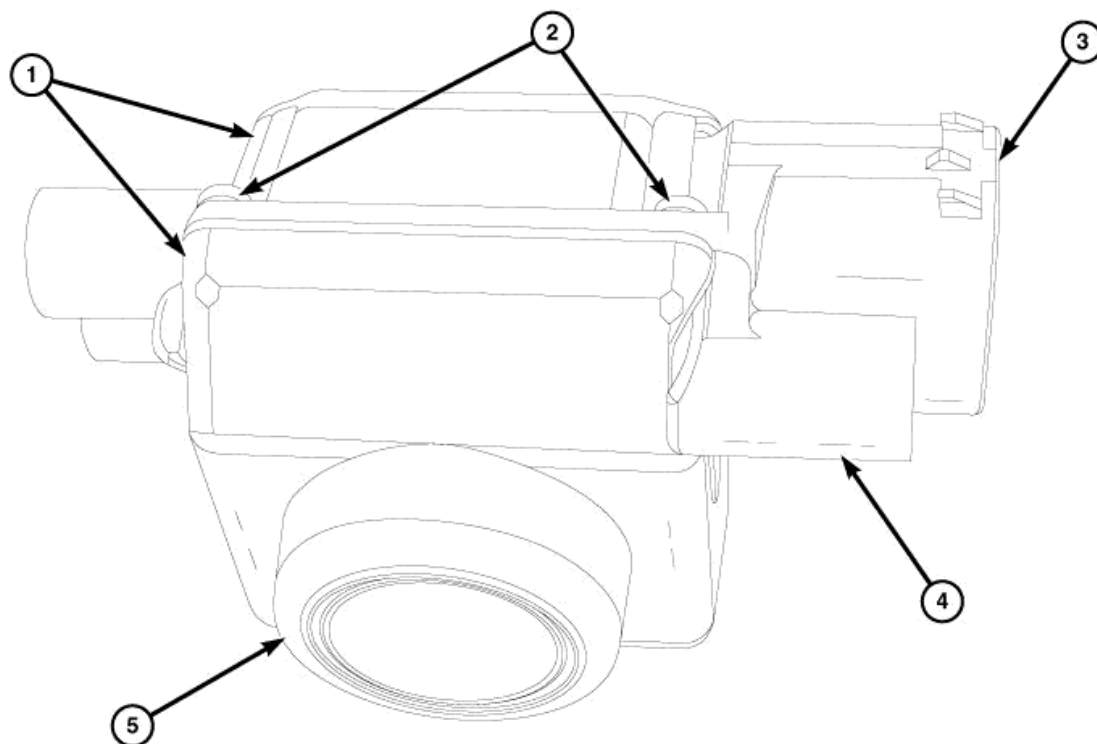
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Fig. 4: Rear View Camera
Courtesy of CHRYSLER LLC

The Rear View Camera (RVC) (4) (also known as ParkView™), is a camera on chip device utilizing Complementary Metal Oxide Semiconductor (CMOS) technology. CMOS technology is used for a wide variety of digital or analog circuits. In this application, it supports the analog image sensor of the RVC. The RVC function is to provide a wide angle video image of the area behind the vehicle, including areas that might not be normally visible from the seated position of the vehicle operator, only while the transaxle gear selector is in the Reverse position. This video image then displays to the vehicle operator within the display screen of the audio system receiver unit near the center of the instrument panel.

The RVC is intended to be an auxiliary viewing aid and is not promoted as an obstacle detection or safety device. It does not remove vehicle operator responsibility to recognize and obey official traffic laws or regulations or to take sensible precautions and care to avoid pedestrians, other vehicle traffic or both fixed and moving obstacles through the habitual use of safe and defensive driving techniques.

The RVC is located on the underside of the light bar (1) mounted above the license plate tub on the vehicle liftgate. The camera lens is visible just to the left of the vehicle center line, while the body of the camera and the camera connections are concealed within the light bar above a camera mounting bracket (3), to which the camera is secured with three screws. The camera mounting bracket secures to the light bar assembly to the left of the left license plate lamp (2) with two additional screws. A light bar wire harness routes through a rubber grommet into the interior of the liftgate where it connects the RVC and both license plate lamps to the vehicle electrical system through a dedicated take out and connector of the liftgate wire harness.



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Fig. 5: Camera Image Sensor & Electronics
Courtesy of CHRYSLER LLC

The camera image sensor and electronics are sealed and protected within a two-piece die cast zinc housing (1), held together by four screws (2). The camera lens (5) extends from the lower surface of the housing and an integral connector receptacle (3) containing five terminal pins that extends from the right side of the housing. Additionally, there are three mounting bosses (4) integral to the camera housing, two on the left side and one on the right. The mounting bosses receive the three self-tapping screws securing the unit to the camera bracket.

Hardwired circuitry connects the RVC to the electrical system of the vehicle. These hardwired circuits are integral to several wire harnesses, which routes throughout the vehicle and retained by many different methods. These circuits may be connected to each other and to the vehicle electrical system through the use of a combination of soldered splices, splice block connectors, and many different types of wire harness terminal connectors and insulators. Refer to **SYSTEM WIRING DIAGRAMS**. The wiring information includes wiring diagrams, proper wire and connector repair procedures, further details on wire harness routing and retention, as well as pin-out and location views for the various wire harness connectors, splices and grounds.

The RVC cannot be adjusted or repaired. If the RVC is damaged or ineffective, it must be replaced.

OPERATION

OPERATION

The Rear View Camera (RVC) is powered by a battery feed received through the backup lamp switch output circuit from the Totally Integrated Power Module (TIPM) so that is only active when the transaxle is shifted into the REVERSE position. In addition, the radio receiver monitors messages on the Controller Area Network (CAN) data bus to determine the selected transaxle gear and overrides any other display to show the RVC video output, whenever it detects that the transaxle is in REVERSE. A momentary blank video display screen immediately following the gearshift transition into the REVERSE position is considered normal operation. The camera electronics receive a path to ground at all times through a takeout and eyelet terminal of the liftgate wire harness that is secured by a ground screw to the right side of the liftgate inner panel.

The output of the camera is a video signal compatible to the National Television System Committee (NTSC) standard composite video M format, or NTSC-M. The video signal is delivered to the radio video display unit through the entire length of the vehicle by camera signal and the camera return circuits that are arranged as a twisted pair, with an additional grounded foil jacket to protect the video signal from corruption due to stray radiated signals within the vehicle environment. The ground shield is terminated only at the video display (radio) end, not at the camera. Portions of these video signal wires are contained within the liftgate lightbar wire harness, the liftgate wire harness, the body wire harness and a jumper harness located between the radio and the body harness connector below the instrument panel at the right cowl side inner panel.

DIAGNOSIS AND TESTING

Rear Camera

The hardwired circuits of the Rear View Camera (RVC) and those between the RVC and the radio receiver may be diagnosed using conventional diagnostic tools and procedures. Refer to **SYSTEM WIRING DIAGRAMS**. The wiring information includes wiring diagrams, proper wire and connector repair procedures, details of wire harness routing and retention, connector pin-out information and location views for the various wire harness connectors, splices and grounds.

However, conventional diagnostic methods will not prove conclusive in the diagnosis of the RVC or the radio receiver. The most reliable, efficient and accurate means to diagnose the electronic controls and communication related to radio receiver operation, as well as the retrieval or erasure of a DTC requires the use of a diagnostic scan tool. Refer to the appropriate diagnostic service information.

WARNING: To avoid serious or fatal injury on vehicles equipped with airbags, disable the Supplemental Restraint System (SRS) before attempting any steering wheel, steering column, airbag, seat belt tensioner, impact sensor, or instrument panel component diagnosis or service. Disconnect and isolate the battery negative (ground) cable, then wait two minutes for the system capacitor to discharge before performing further diagnosis or service. This is the only sure way to disable the SRS. Failure to take the proper precautions could result in accidental airbag deployment.

NOTE: Be certain to confirm both of the following prior to attempting any further diagnosis or testing of the RVC. Use a diagnostic scan tool to confirm the rear view camera is setup in the vehicle configuration. From the initial start up

screen of the diagnostic scan tool, navigate to ECU VIEW , select TIPMCGW CENTRAL GATEWAY , MORE OPTIONS , ECU DETAILS and then CONFIG INFO . Verify that REAR CAMERA PRESET - - - SET is present. If not, the Sales Code XAC (Park View Rear Back-Up Camera) will have to be added to the vehicle configuration to enable the RVC, in vehicles equipped with a MyGIG multimedia entertainment system (Sales Codes RE1, REN, REP, RER, REU, REW, REX or REZ), be certain that the RVC is set to ENABLED using the CAMERA SETUP option in the MyGIG system settings.

CONDITION	POSSIBLE CAUSES	CORRECTION
NO VIDEO DISPLAY IN RADIO - DOES NOT DISPLAY CHECK ENTIRE SURROUNDINGS MESSAGE BRIEFLY AFTER SHIFTING INTO REVERSE	1. Incorrect radio software. 2. Ineffective radio fuse. 3. Ineffective radio ground circuit. 4. Ineffective radio feed circuit. 5. Ineffective radio inputs or outputs. 6. Ineffective radio.	1. Check to be certain that the radio has the latest software update installed. Install the radio software update if required. 2. Test and replace the radio fuses if required. 3. Check for loose or damaged wiring connections at the radio. Test and repair the open radio ground circuit if required. 4. Check for loose or damaged wiring connections at the radio. Test and repair the open radio feed circuit if required. 5. Use a diagnostic scan tool to test the radio inputs and outputs including those received over the CAN data bus. Refer to the appropriate diagnostic information. 6. Use a diagnostic scan tool to test the radio. Refer to the appropriate diagnostic information.
NO CAMERA IMAGE IN RADIO VIDEO DISPLAY AND NO BACKUP LAMPS IN REVERSE	1. Left backup lamp inoperative, right backup lamp okay. 2. Both backup lamps inoperative. 3. Ineffective TIPM inputs or outputs.	1. Test and repair the open backup lamp switch output circuit between the right and left tail lamps if required. 2. Test and repair the open backup lamp switch output circuit between the Totally Integrated Power Module (TIPM) and the tail lamps if required. 3. Use a diagnostic scan tool to test the TIPM inputs and outputs. Refer to the appropriate diagnostic information.
NO CAMERA IMAGE IN RADIO	1. Ineffective camera	1. Check for loose or damaged

VIDEO DISPLAY - DOES DISPLAY
CHECK ENTIRE SURROUNDINGS
 MESSAGE BRIEFLY AFTER
 SHIFTING INTO REVERSE AND
 BACKUP LAMPS DO OPERATE

ground circuit.

2. Ineffective camera
 feed (backup lamp switch
 output) circuit.

3. Ineffective camera
 shield circuit.

4. Ineffective camera
 return circuit.

5. Ineffective camera
 signal circuit.

6. Ineffective camera.

wiring connections at the camera,
 liftgate light bar and liftgate. Test
 and repair the open camera ground
 circuit if required.

2. Check for loose or damaged
 wiring connections at the camera,
 liftgate light bar and upper liftgate
 opening header. Test and repair the
 open camera feed (backup lamp
 switch output) circuit if required.

3. Check for loose or damaged
 wiring connections at the camera,
 liftgate light bar, upper liftgate
 opening header, right cowl side
 inner panel and radio. Test and
 repair the open or shorted camera
 shield circuit if required.

4. Check for loose or damaged
 wiring connections at the camera,
 liftgate light bar, upper liftgate
 opening header, right cowl side
 inner panel and radio. Test and
 repair the open or shorted camera
 feed circuit if required.

5. Check for loose or damaged
 wiring connections at the camera,
 liftgate light bar, upper liftgate
 opening header, right cowl side
 inner panel and radio. Test and
 repair the open or shorted camera
 signal circuit if required.

6. Replace the ineffective camera if
 required.

REMOVAL

REMOVAL

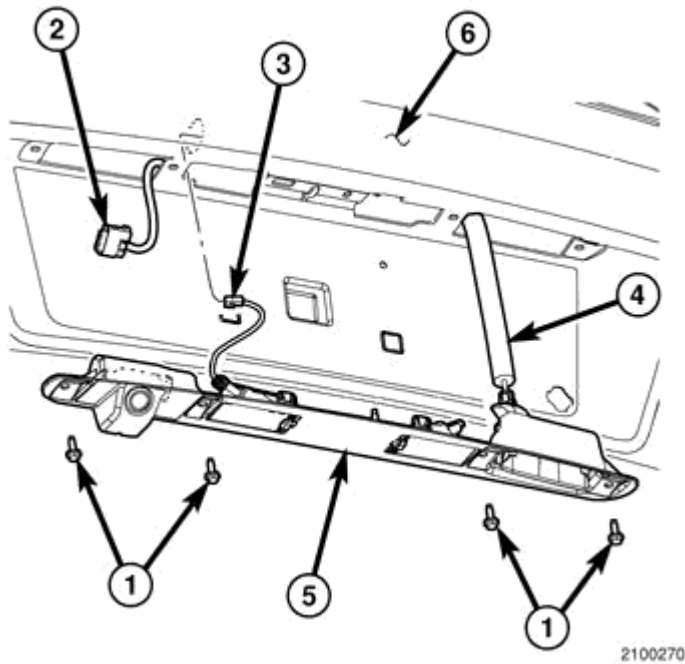


Fig. 6: Backup Camera & Liftgate & Lights
Courtesy of CHRYSLER LLC

1. Disconnect the negative battery cable.
2. Remove the four retainers (1) holding the lightbar (5) to the liftgate (6).
3. Using a trim stick or equivalent, release the lightbar (5) from the clips.
4. Disconnect the electrical connectors from the backup camera (2) and the lights (3).
5. Disconnect the liftgate release cable (4) from the lightbar (5).
6. Remove the retainer from the back of the camera.
7. Unclip the camera cover from the lightbar.
8. Remove the camera mounting retainers.
9. Remove the camera from the lightbar.

INSTALLATION

INSTALLATION

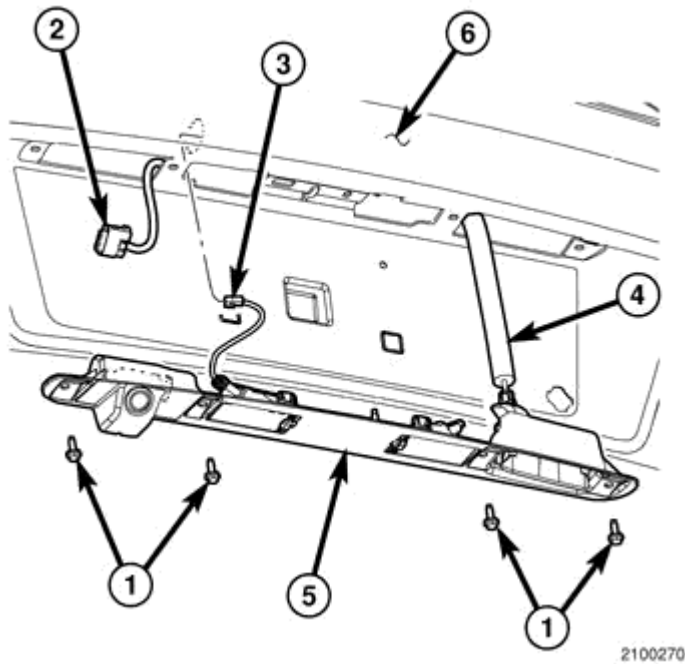


Fig. 7: Backup Camera & Liftgate & Lights
Courtesy of CHRYSLER LLC

1. Install the camera to the lightbar.
2. Install the camera mounting retainers.
3. Clip the camera cover to the lightbar.
4. Install the retainer to the back of the camera.
5. Connect the liftgate release cable (4) to the lightbar (5).
6. Connect the electrical connectors to the backup camera (2) and the lights (3).
7. Install the lightbar to the tailgate.
8. Install the four retainers (1) holding the lightbar (5) to the liftgate (6).
9. Connect the negative battery cable.

MODULE, SATELLITE VIDEO

REMOVAL

REMOVAL

1. Disconnect and isolate the negative battery cable.
2. Move the front passenger seat to the most forward position.

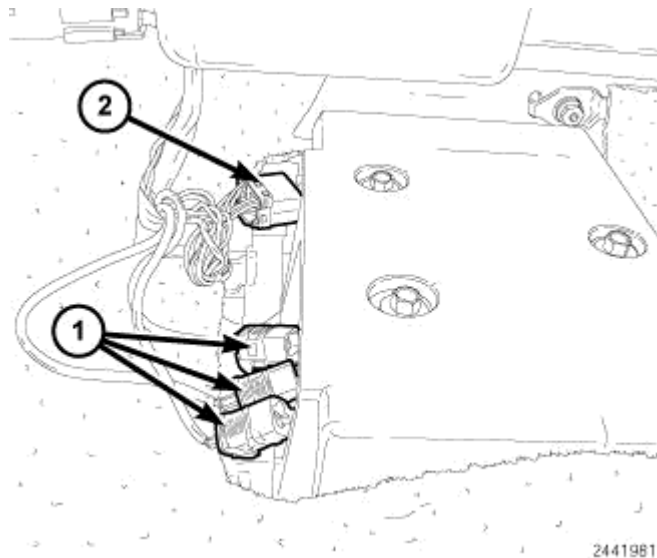


Fig. 8: Antenna & Electrical Connectors
Courtesy of CHRYSLER LLC

3. Disconnect the three antenna connectors (1) and the electrical connector (2).

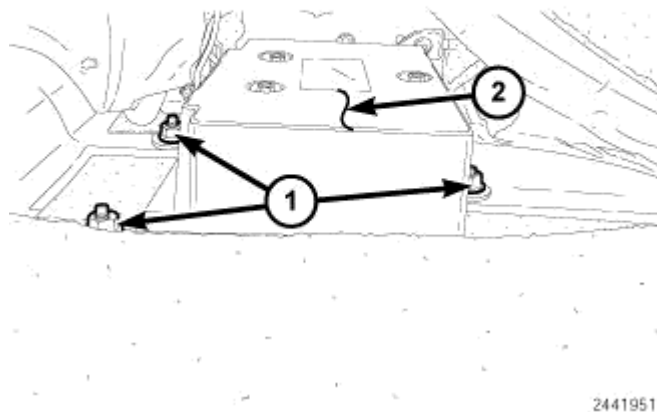
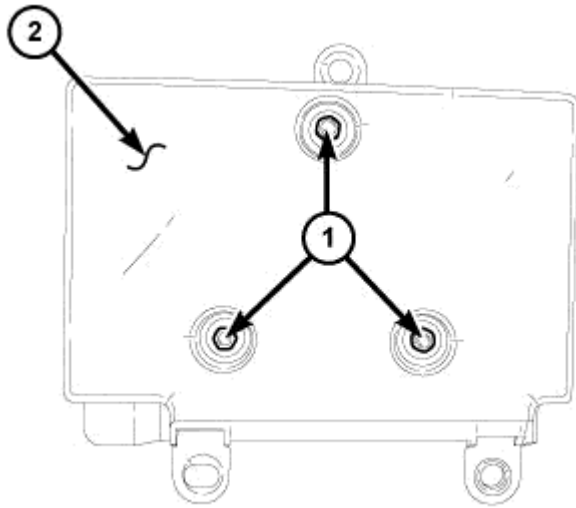


Fig. 9: Retainers & Video Module Housing
Courtesy of CHRYSLER LLC

4. Remove the three retainers (1) securing the video module housing (2) to the floor, remove video housing and module from vehicle.



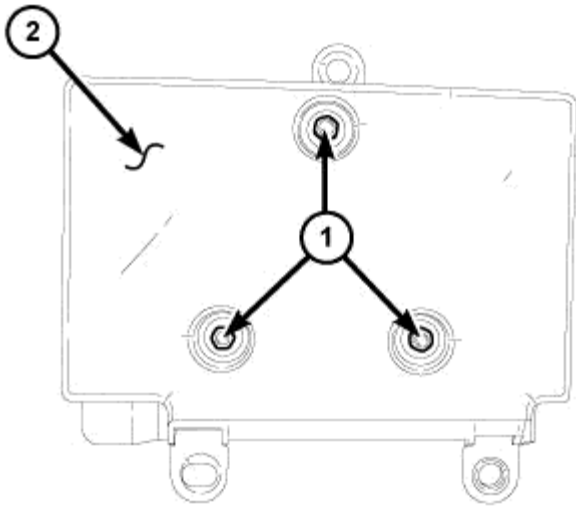
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Fig. 10: Video Module Retainers & Video Module Housing
Courtesy of CHRYSLER LLC

5. Remove the video module retainers (1) to the video module housing (2).

INSTALLATION

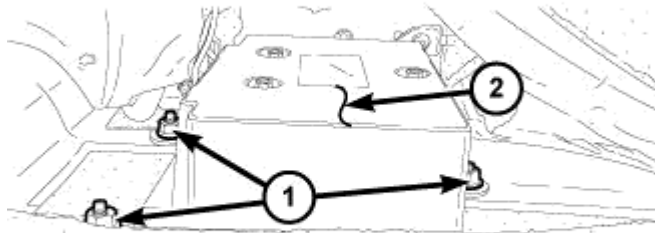
INSTALLATION



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Fig. 11: Video Module Retainers & Video Module Housing
Courtesy of CHRYSLER LLC

1. Install the video module to the housing.

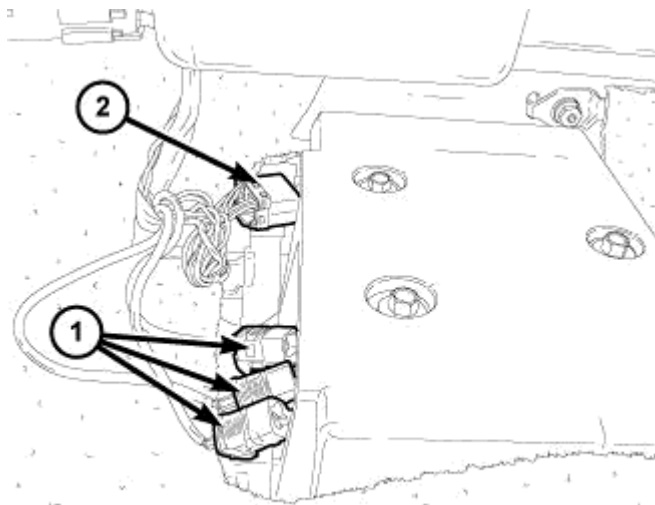


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Fig. 12: Retainers & Video Module Housing
Courtesy of CHRYSLER LLC

2. Install the video module into the vehicle and Install the three retainers (1) securing the video module housing (2) to the floor.

Tighten to 6 N.m (53 in. lbs.).



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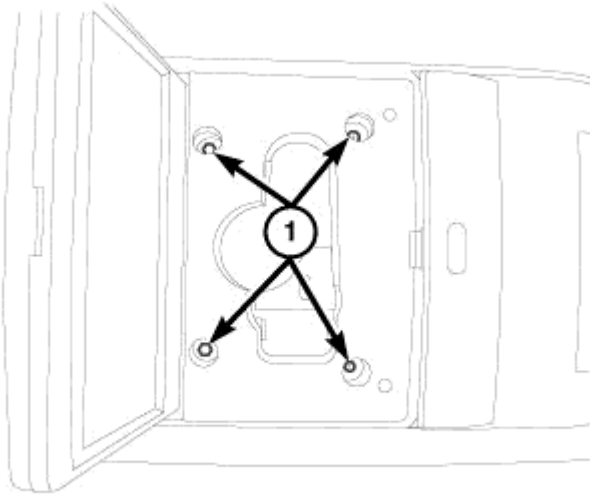
Fig. 13: Antenna & Electrical Connectors
Courtesy of CHRYSLER LLC

3. Connect the three antenna connectors (1) and the electrical connector (2).
4. Move the front passenger seat back to the original position.
5. Connect the battery negative cable.

MONITOR, MEDIA SYSTEM

REMOVAL

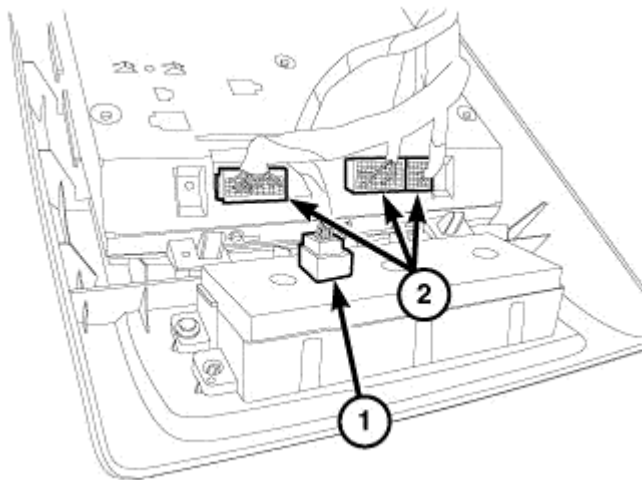
REMOVAL



2445923

Fig. 14: Removing / Installing Mounting Fasteners
Courtesy of CHRYSLER LLC

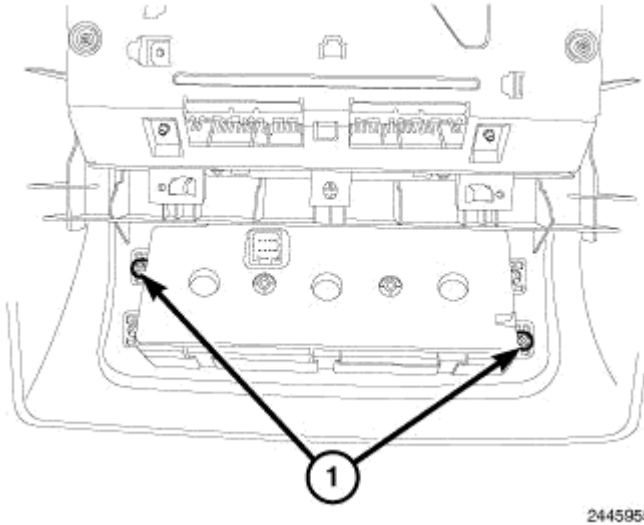
1. Disconnect and isolate the battery negative cable.
2. Open the video screen to access the mounting fasteners.
3. Remove the mounting fasteners.



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Fig. 15: Removing/Installing Video Monitor Connectors
Courtesy of CHRYSLER LLC

4. If equipped, disconnect the rear heat control connector (1).
5. Disconnect the video monitor connectors (2) and remove the assembly from the vehicle.



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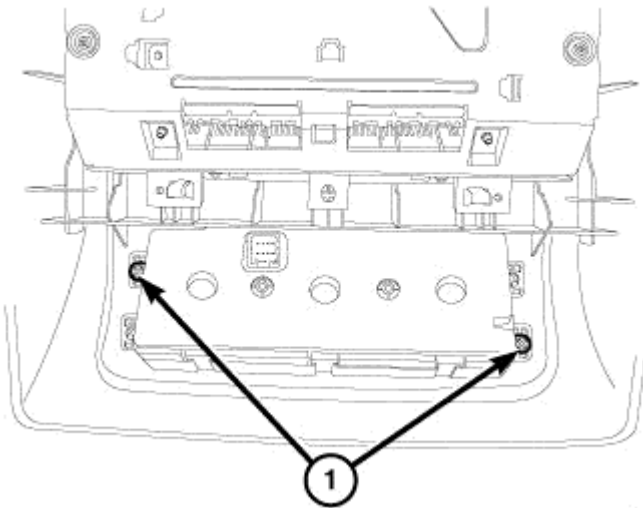
Fig. 16: Fasteners

Courtesy of CHRYSLER LLC

6. Remove the fasteners (1) and remove the rear A/C and heater control.

INSTALLATION

INSTALLATION

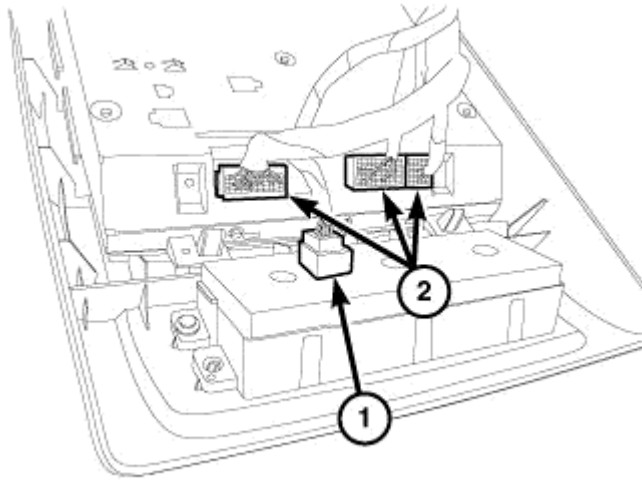


2445955

Fig. 17: Fasteners

Courtesy of CHRYSLER LLC

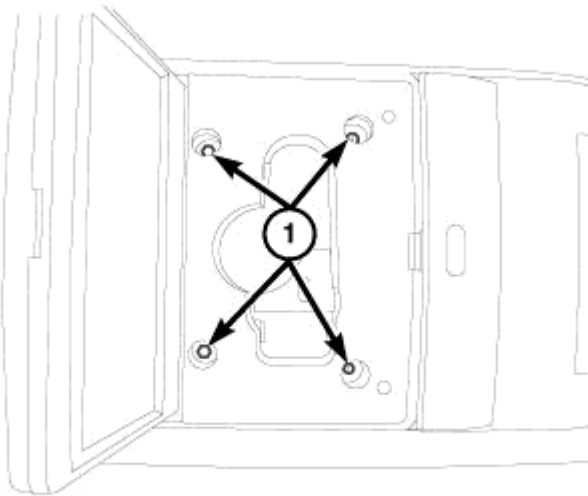
1. Install the rear A/C and heater control and the fasteners (1).



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Fig. 18: Removing/Installing Video Monitor Connectors
Courtesy of CHRYSLER LLC

2. If equipped, connect the rear A/C and heater control connector (1).
3. Connect the video monitor connectors (2).



2445923

Fig. 19: Removing / Installing Mounting Fasteners
Courtesy of CHRYSLER LLC

4. Install the mounting fasteners.
5. Connect the battery negative cable.

RADIO

STANDARD PROCEDURE**RADIO BACKUP**

The radio hard disk drive (HDD) can be backed up to save customer data in the event that a radio replacement is required. This procedure can only be done with all radios with a hard disk drive. All other radios do not have a HDD.

1. Turn the ignition to RUN, engine OFF.
2. Power on the external HDD.
3. Connect the external HDD to the radio using the USB (Universal Serial Bus) cable. The radio display will change to the "Manage My Files" screen.
4. Connect the scan tool and perform the following steps to place the radio into "Dealership Mode":
 - ECU View
 - Radio
 - Misc. Functions
 - Service Mode
 - Start
 - Next
5. Follow the on screen instructions on the radio to back up the radio HDD.

REMOVAL**REMOVAL****REMOVAL**

RADIO/RADIO HEAD	Refer to the <u>RADIO/RADIO HEAD</u> for removal procedures.
REMOTE RADIO DISPLAY	Refer to the <u>REMOTE RADIO DISPLAY</u> for removal procedures.

NOTE: REQ radios only must be put into "Transportation Mode" before removal. With Ignition in RUN or ACCESSORY, press SET and DISC simultaneously until the radio displays "TRANSPORTATION" on the display or for 5 seconds.

RADIO/RADIO HEAD

1. Disconnect and isolate the battery negative cable.
2. Remove the instrument panel center bezel. Refer to **Body/Instrument Panel/BEZEL, Instrument Panel - Removal**.
3. Remove the radio mounting fasteners.
4. Carefully pull the radio out as necessary and disconnect the electrical connectors and antenna cables.
5. Remove the radio from the vehicle.

REMOTE RADIO DISPLAY

1. Disconnect and isolate the battery negative cable.
2. Remove the instrument panel center bezel. Refer to **Body/Instrument Panel/BEZEL, Instrument Panel - Removal** .
3. Remove the radio display mounting fasteners.
4. Carefully pull the radio display out as necessary and disconnect the electrical connectors and antenna cables.
5. Remove the radio display from the vehicle.

INSTALLATION

INSTALLATION

INSTALLATION

RADIO/RADIO HEAD	Refer to the <u>RADIO/RADIO HEAD</u> installation procedures.
REMOTE RADIO DISPLAY	Refer to the <u>REMOTE RADIO DISPLAY</u> installation procedures.

RADIO/RADIO HEAD

1. Connect the electrical connectors and antenna cables.
2. Firmly seat the radio into position and install the mounting fasteners.
3. Install the instrument panel center bezel. Refer to **Body/Instrument Panel/BEZEL, Instrument Panel - Installation** .
4. Connect the battery negative cable.

REMOTE RADIO DISPLAY

1. Connect the electrical connectors.
2. Seat the display into position and install the mounting fasteners.
3. Install the instrument panel center bezel. Refer to **Body/Instrument Panel/BEZEL, Instrument Panel - Installation** .
4. Connect the battery negative cable.

NOTE: REQ RADIO , After installation of the radio, remove the radio from "Transportation Mode" by pulling the IOD fuse or using the scan tool and perform a battery reset.

SPEAKER

OPERATION

OPERATION

Two wires connected to each speaker, one feed circuit (+) and one return circuit (-), allow the audio output

signal electrical current to flow through the voice coil. For complete circuit diagrams, refer to **SYSTEM WIRING DIAGRAMS** . The wiring information includes wiring diagrams, proper wire and connector repair procedures, details of wire harness routing and retention, connector pin-out information and location views for the various wire harness connectors, splices and grounds.

DIAGNOSIS AND TESTING

SPEAKER

Any diagnosis of the Audio system should begin with the use of the scan tool. For information on the use of the scan tool, refer to the appropriate Diagnostic Service information.

For complete circuit diagrams, refer to SYSTEM WIRING DIAGRAMS .

WARNING: Disable the airbag system before attempting any steering wheel, steering column, seat belt tensioner, side airbag or instrument panel component diagnosis or service. Disconnect and isolate the negative battery (ground) cable. Wait two minutes for the airbag system capacitor to discharge before performing further diagnosis or service. This is the only sure way to disable the airbag system. Failure to follow these instructions may result in accidental airbag deployment and possible serious or fatal injury.

CAUTION: The speaker output of the radio is a "floating ground" system. Do not allow any speaker lead to short to ground, as damage to the radio may result.

1. If all speakers are inoperative, check the radio fuses in the Totally Integrated Power Module (TIPM). If OK, go to Step 2. If not OK, repair the shorted circuit or component as required and replace the faulty fuse.
2. Check the amplifier fuse (if equipped) in the TIPM. If OK, go to Step 3. If not OK, repair the shorted circuit or component as required and replace the faulty fuse.
3. Turn the ignition switch to the ON position. Turn the radio receiver ON. Adjust the balance and fader control controls to check the performance of each individual speaker. Note the speaker locations that are not performing correctly. Go to Step 4.
4. Turn the radio receiver OFF. Turn the ignition OFF. Disconnect and isolate the battery negative cable. If vehicle is **not** equipped with a amplifier, remove the radio receiver. If vehicle is equipped with an amplifier, disconnect wire harness connector at output side of amplifier. Go to Step 5.
5. Check both the speaker feed (+) circuit and return (-) circuit cavities for the inoperative speaker at the radio receiver wire harness connector for continuity to ground. There should be no continuity. If OK, go to Step 6. If not OK, repair the shorted speaker feed (+) and/or return (-) circuit(s) to the speaker as required.
6. Disconnect wire harness connector at the inoperative speaker. Check for continuity between the speaker feed (+) circuit cavities of the radio receiver wire harness connector or if equipped, the amplifier wire harness connector and the speaker wire harness connector. Repeat the check between the speaker return (-

) circuit cavities of the radio receiver wire harness connector and the speaker wire harness connector. In each case, there should be continuity. If OK, replace the faulty speaker. If not OK, repair the open speaker feed (+) and/or return (-) circuit(s) as required.

REMOVAL

REMOVAL

REMOVAL

DOOR SPEAKER	Refer to the <u>DOOR SPEAKER</u> removal procedure.
INSTRUMENT PANEL SPEAKER	Refer to the <u>INSTRUMENT PANEL SPEAKER</u> removal procedure.
SUBWOOFER	Refer to the <u>SUBWOOFER</u> removal procedure.

DOOR SPEAKER

1. Disconnect and isolate the battery negative cable.
2. Remove the door trim panel. Refer to **Body/Door - Front/PANEL, Door Trim - Removal** .
3. Remove the mounting fasteners.
4. Disconnect the electrical connector and remove the speaker from the vehicle.

INSTRUMENT PANEL SPEAKER

1. Disconnect and isolate the battery negative cable.
2. Remove the defroster grille. Refer to **Body/Instrument Panel/GRILLE, Defroster - Removal** .
3. Remove the mounting fasteners.
4. Disconnect the electrical connector and remove the speaker from the vehicle.

SUBWOOFER

1. Disconnect and isolate the battery negative cable.
2. Remove the left rear quarter trim panel. Refer to **Body/Interior/PANEL, Quarter Trim - Removal** .
3. Remove the subwoofer mounting fasteners.
4. Disconnect the electrical connectors and remove the subwoofer from the vehicle.

INSTALLATION

INSTALLATION

INSTALLATION

DOOR SPEAKER	Refer to the <u>DOOR SPEAKER</u> installation procedure.
INSTRUMENT PANEL SPEAKER	Refer to the <u>INSTRUMENT PANEL SPEAKER</u> installation procedure.
SUBWOOFER	Refer to the <u>SUBWOOFER</u> installation procedure.

DOOR SPEAKER

1. Install the speaker and connect the electrical connector.
2. Install the mounting fasteners.
3. Install the door trim panel. Refer to **Body/Door - Front/PANEL, Door Trim - Installation** .
4. Connect the battery negative cable.

INSTRUMENT PANEL SPEAKER

1. Install the speaker and connect the electrical connector.
2. Install the mounting fasteners.
3. Install the defroster grille. Refer to **Body/Instrument Panel/GRILLE, Defroster - Installation** .
4. Connect the battery negative cable.

SUBWOOFER

1. Install the subwoofer and connect the electrical connector.
2. Install the mounting fasteners.
3. Install the left rear quarter trim panel. Refer to **Body/Interior/PANEL, Quarter Trim - Installation** .
4. Connect the battery negative cable.

SWITCH, REMOTE RADIO**DESCRIPTION****DESCRIPTION**

Remote radio control switches are rocker-type switch units are mounted in the upper spoke covers of the rear (instrument panel side) steering wheel trim cover. The switch unit on the left side is the seek switch and has seek up, seek down, and preset station advance switch functions. The switch unit on the right side is the volume control switch and has volume up, volume down, and mode advance switch functions.

The two remote radio switch units are each retained in a mounting hole located on opposite sides of the rear steering wheel trim cover by four integral snap features. A plastic bracket on the back of each switch unit provides additional support for the unit by extending towards the center of the steering wheel where it is clamped between the steering wheel armature and the steering wheel rear trim cover mounting boss by the trim cover mounting screw.

The two remote radio switch units share a common steering wheel wire harness with the vehicle speed control switches. The steering wheel wire harness is connected to the instrument panel wire harness through the clockspring.

DIAGNOSIS AND TESTING**REMOTE SWITCHES**

Any diagnosis of the Audio system should begin with the use of the scan tool. For information on the use of the scan tool, refer to the appropriate Diagnostic Service information.

For complete circuit diagrams, refer to **SYSTEM WIRING DIAGRAMS**.

WARNING: Disable the airbag system before attempting any steering wheel, steering column, seat belt tensioner, side airbag or instrument panel component diagnosis or service. Disconnect and isolate the negative battery (ground) cable. Wait two minutes for the airbag system capacitor to discharge before performing further diagnosis or service. This is the only sure way to disable the airbag system. Failure to follow these instructions may result in accidental airbag deployment and possible serious or fatal injury.

1. Disconnect and isolate the battery negative cable. Remove the remote radio switch(es) from the steering wheel.
2. Use an ohmmeter to check the switch resistances as shown in **REMOTE RADIO SWITCH TEST**. If the remote radio switch resistances check OK, go to 3. If not OK, replace the faulty switch.

REMOTE RADIO SWITCH TEST

Switch	Switch Position	Minimum Resistance	Nominal Resistance	Maximum Resistance
Right (White)	Volume Up	6.732 ohms	6.8 ohms	6.868 ohms
Right (White)	Volume Down	14.850 ohms	15 ohms	15.151 ohms
Right (White)	Mode Advance	0 ohms	0 ohms	0 ohms
Left (Black)	Seek Up	1.188 ohms	1.2 ohms	1.212 ohms
Left (Black)	Seek Down	3.267 ohms	3.3 ohms	3.333 ohms
Left (Black)	Pre-Set Station Advance	465 ohms	47 ohms	474 ohms

3. Reconnect the battery negative cable. Turn the ignition switch to the ON position. Check for 5 volts at the radio control circuit cavities of the steering wheel wire harness connectors for both remote radio switches. If OK, refer to **BODY**. If not OK, repair the circuit as required.

REMOVAL

REMOVAL

WARNING: Disable the airbag system before attempting any steering wheel, steering

column, seat belt tensioner, side airbag or instrument panel component diagnosis or service. Disconnect and isolate the negative battery (ground) cable. Wait two minutes for the airbag system capacitor to discharge before performing further diagnosis or service. This is the only sure way to disable the airbag system. Failure to follow these instructions may result in accidental airbag deployment and possible serious or fatal injury.

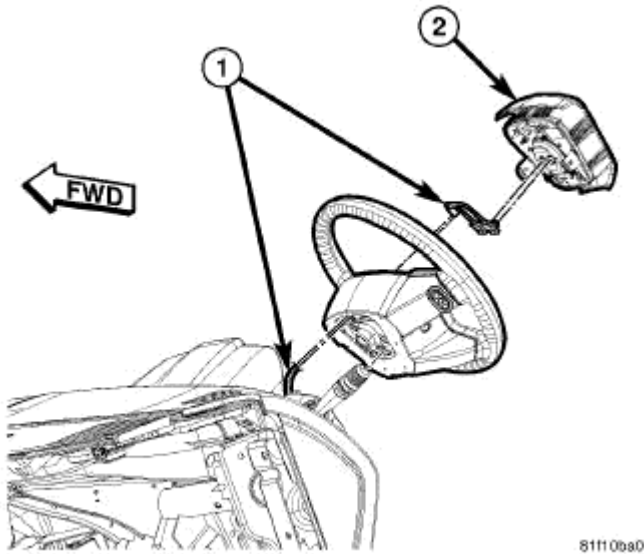


Fig. 20: Removing / Installing Driver Side Airbag Module
Courtesy of CHRYSLER LLC

1. Disconnect and isolate the battery negative cable.
2. Remove the driver side airbag module from the steering wheel. Refer to **Restraints/AIR BAG, Driver - Removal** .

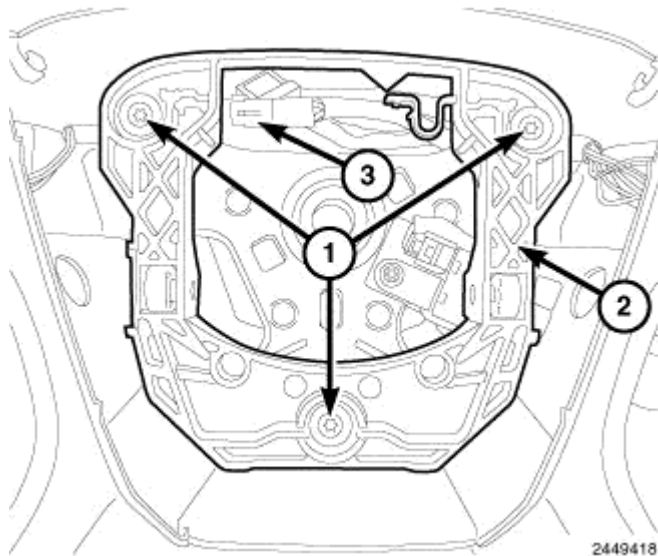


Fig. 21: Retainers, Horn Connector And Button Assembly
Courtesy of CHRYSLER LLC

3. Disconnect the horn connector (3).
4. Remove retainers (1) and remove the horn button assembly (2).

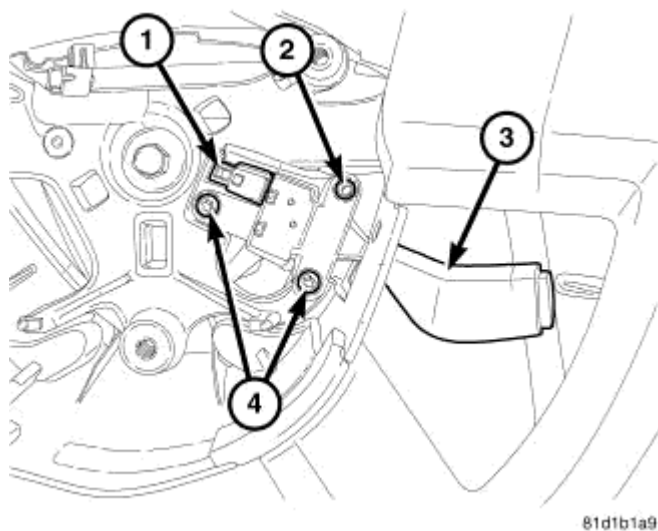
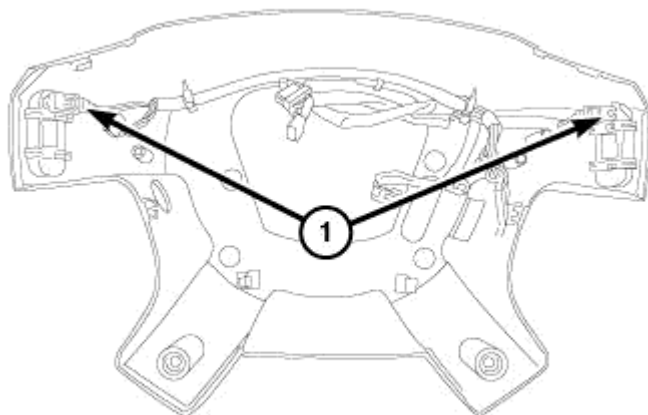


Fig. 22: Speed Control Switch
Courtesy of CHRYSLER LLC

5. Remove the speed control switch (3). Refer to **Electrical/8P - Speed Control/Speed Control/SWITCH, Speed Control - Removal**.



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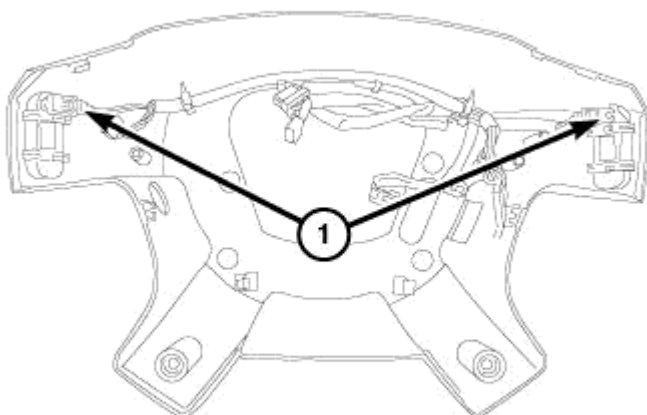
Fig. 23: Radio Switches
Courtesy of CHRYSLER LLC

6. Disconnect the radio switches (1).
7. From the inside of the steering wheel rear trim cover, press firmly and evenly outward on the back of the switch to disengage the four snap features that secure the switch to the inside of the mounting hole.
8. From the outside of the steering wheel rear trim cover, remove the remote radio switch from the trim cover mounting hole.

INSTALLATION

INSTALLATION

WARNING: Disable the airbag system before attempting any steering wheel, steering column, seat belt tensioner, side airbag or instrument panel component diagnosis or service. Disconnect and isolate the negative battery (ground) cable. Wait two minutes for the airbag system capacitor to discharge before performing further diagnosis or service. This is the only sure way to disable the airbag system. Failure to follow these instructions may result in accidental airbag deployment and possible serious or fatal injury.

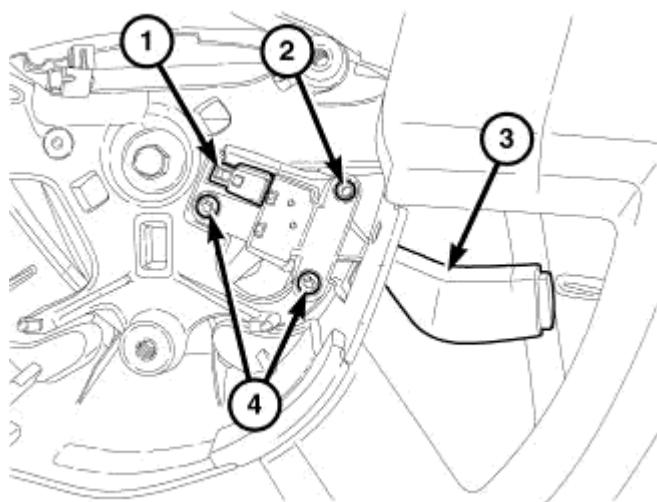


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Fig. 24: Radio Switches

Courtesy of CHRYSLER LLC

1. Position the remote radio switch to the mounting hole on the outside of the steering wheel rear trim cover. Be certain that the connector receptacle is oriented toward the bottom of the switch and pointed toward the center of the steering wheel.
2. Press firmly and evenly on the remote radio switch until each of the switch snap features is fully engaged in the mounting hole of the steering wheel rear trim cover.
3. Reconnect the steering wheel wire harness connector to the connector receptacle of the remote radio switch (1).



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Fig. 25: Speed Control Switch

Courtesy of CHRYSLER LLC

4. Install the speed control switch (3). Refer to **Electrical/8P - Speed Control/Speed Control/SWITCH**.

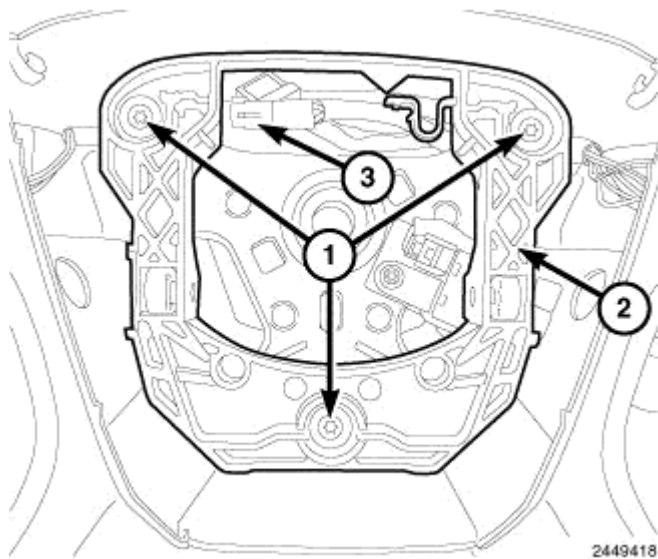
Speed Control - Installation .

Fig. 26: Retainers, Horn Connector And Button Assembly
Courtesy of CHRYSLER LLC

5. Install the horn button assembly (2) and install the three retainers (1).
6. Connect the horn connector (3).

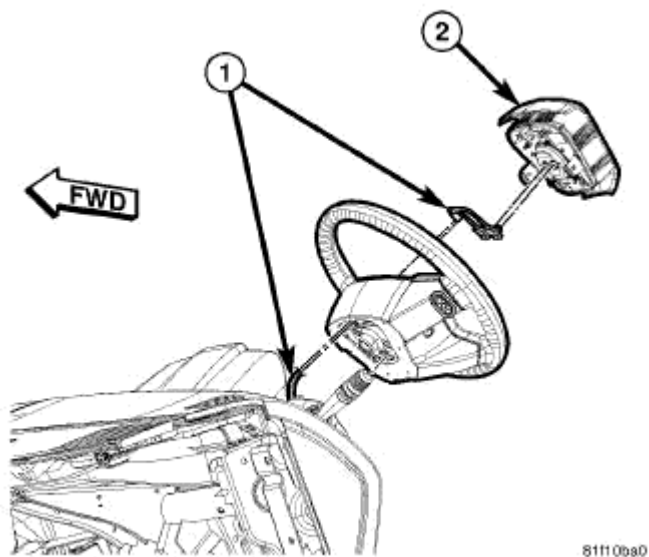


Fig. 27: Removing / Installing Driver Side Airbag Module
Courtesy of CHRYSLER LLC

7. Install the driver side airbag module to the steering wheel. Refer to **Restraints/AIR BAG, Driver - Installation .**
8. Connect the battery negative cable.