Tools Required

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
<td><img src="image9.png" alt="Image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J</th>
<th>K</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image10.png" alt="Image" /></td>
<td><img src="image11.png" alt="Image" /></td>
<td><img src="image12.png" alt="Image" /></td>
</tr>
</tbody>
</table>
Vehicles with selector lever in floor console

- For vehicles with column mounted selector lever, proceed to step 12

Floor Console Removal

1. Apply the parking brake.
2. Place the selector lever in the 1 position.
3. Position the front seats forward.
4. Remove the 2 floor console rear bolts.
5. Position the front seats rearward.
6. Remove the LH and RH floor console lower finish panels, in the following sequence.
   1. Pull the rear section of the panels outward to release the retaining clips.
   2. Pull the panels toward the rear of the vehicle.
7. Remove the floor console upper finish panel.
   • Lift the floor console upper finish panel upward, at the locations indicated, to release the retaining clips.
8. Remove the selector lever trim panel.
   • Lift the selector lever trim panel upward releasing the retaining clips from the floor console.
9. Remove the 2 floor console-to-instrument panel bolts.
10. Remove the 2 floor console front bolts.
11. Position the floor console rearward.

Instrument Cluster Finish Panel Removal

12. Apply the parking brake.
13. Place the selector lever in the 1 position.
14. Position the steering wheel downward.
15. Remove the 2 instrument cluster finish panel screws and remove the instrument cluster finish panel.
   • Release the gap hider retainers.
   • Pull the instrument cluster finish panel toward the rear of the vehicle to release the retaining clips.

**Supplemental Restraint System (SRS) Depowering Procedure**

⚠️ **WARNING:**
Always wear eye protection when servicing a vehicle. Failure to follow this instruction may result in serious personal injury.

⚠️ **WARNING:**
Never probe the electrical connectors on airbag, Safety Canopy or side air curtain assemblies. Failure to follow this instruction may result in the accidental deployment of these assemblies, which increases the risk of serious personal injury or death.

⚠️ **WARNING:**
Do not handle, move or change the original horizontal mounting position of the restraints control module (RCM) while the RCM is connected and the ignition switch is ON. Failure to follow this instruction may result in the accidental deployment of the Safety Canopy and cause serious personal injury or death.

⚠️ **WARNING:**
To reduce the risk of accidental deployment, do not use any memory saver devices. Failure to follow this instruction may result in serious personal injury or death.

**NOTE:**
The air bag warning indicator illuminates when the correct Restraints Control Module (RCM) fuse is removed and the ignition is ON.

**NOTE:**
The Supplemental Restraint System (SRS) must be fully operational and free of faults before releasing the vehicle to the customer.

16. Remove the LH center instrument panel trim panel lower bolt and the LH center instrument panel trim panel.
   • Pull the LH center instrument panel trim panel toward the rear of the vehicle to release the retaining clips.
   • If equipped, disconnect the electrical connector.

17. Turn all vehicle accessories OFF.

18. Turn the ignition OFF.

19. At the Body Control Module (BCM), located below the RH side of the instrument panel, remove the cover and RCM fuse 36 (10A) from the BCM.
20. Turn the ignition ON and monitor the air bag warning indicator for at least 30 seconds. The air bag warning indicator will remain lit continuously (no flashing) if the correct RCM fuse has been removed. If the air bag warning indicator does not remain illuminated continuously, remove the correct RCM fuse before proceeding.

21. Turn the ignition OFF.

22. **WARNING:** Always deplete the backup power supply before repairing or installing any new front or side air bag supplemental restraint system (SRS) component and before servicing, removing, installing, adjusting or striking components near the front or side impact sensors or the restraints control module (RCM). Nearby components include doors, instrument panel, console, door latches, strikers, seats and hood latches.

To deplete the backup power supply energy, disconnect the battery ground cable and wait at least 1 minute. Be sure to disconnect auxiliary batteries and power supplies (if equipped). Failure to follow these instructions may result in serious personal injury or death in the event of an accidental deployment.

**Battery Disconnect Procedure**

**WARNING:**
Batteries contain sulfuric acid and produce explosive gases. Work in a well-ventilated area. Do not allow the battery to come in contact with flames, sparks or burning substances. Avoid contact with skin, eyes or clothing. Shield eyes when working near the battery to protect against possible splashing of acid solution. In case of acid contact with skin or eyes, flush immediately with water for a minimum of 15 minutes, then get prompt medical attention. If acid is swallowed, call a physician immediately. Failure to follow these instructions may result in serious personal injury.

**WARNING:**
Battery posts, terminals and related accessories contain lead and lead components. Wash hands after handling. Failure to follow these instructions may result in serious personal injury.

**Passenger Airbag Removal**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Electrical connectors</td>
</tr>
<tr>
<td>2</td>
<td>Passenger air bag module assembly</td>
</tr>
<tr>
<td>3</td>
<td>Passenger air bag cover</td>
</tr>
<tr>
<td>4</td>
<td>Passenger air bag module bolt (3 required)</td>
</tr>
</tbody>
</table>

23. Disconnect the battery ground terminal.

24. Lower glove box door completely.

25. Remove the 3 passenger air bag module bolts.

26. **NOTICE:**
Do not handle the passenger air bag module by grabbing the edges of the passenger air bag cover. Damage to the passenger air bag module may occur.

27. Partially remove the passenger air bag module from the instrument panel.

28. Disconnect the 2 electrical connectors and remove the passenger air bag module.
Instrument Panel Finish Panel - Center, RH Removal

29. Remove the RH center instrument panel trim panel upper and lower bolt and the RH center instrument panel trim panel.
   • Pull the RH center instrument panel trim panel toward the rear of the vehicle to release the retaining clips.
   • If equipped, disconnect the electrical connector.

Front Controls Interface Module (FCIM) Removal – Vehicles with 4.2” or 8” display

• For vehicles without 4.2” or 8” display, proceed to step 31

30. Remove the 4 screws and the Front Controls Interface Module (FCIM).
   • Disconnect the electrical connectors.

Front Controls Interface Module (FCIM) Removal – Vehicles without 4.2” or 8” display

31. Remove the center instrument panel upper finish panel mat.

32. Remove the 2 center instrument panel lower finish panel upper screws.

33. Remove the audio input jack trim cover.
   • Using a non-marring tool, pry outward on the lower left corner of the audio input jack cover.
   • Disconnect the electrical connector(s).

34. Remove the instrument panel lower center finish panel center screw.
35. Remove the instrument panel lower center finish panel.
   • Pull the instrument panel lower finish panel toward the rear of the vehicle to release the retaining clips.
   • Disconnect the electrical connectors.

Front Controls/Display Interface Module (FCDIM) Removal

   • For vehicles not equipped with a Front Controls/Display Interface Module (FCDIM), proceed to Audio Control Module (ACM) Removal section.

36. Remove the 4 screws and remove the Front Control/Display Interface Module (FCDIM).
   • Disconnect the electrical connector.

Audio Control Module (ACM) Removal

37. Remove the 4 Audio Control Module (ACM) bolts.
   • Disconnect the electrical connectors.

38. Route the five channel amplifier body harness (G) from the ACM mounting location to the area near the parking brake lever.
   • Use supplied wire ties (K) to secure cable to vehicle harness.
   • Take care to route so that black connectors are located at the ACM mounting location.

39. Connect the five channel amplifier body harness (G) to the corresponding ACM connector.

40. Connect the female end of the five channel amplifier body harness (G) to ACM.

Five Channel Amplifier Body Harness Routing – All Vehicles
Five Channel Amplifier and Subwoofer Power Wire Routing – All Vehicles

⚠️ ⚠️ ⚠️ WARNING: 
Battery cable stud is connected directly to the battery. Use caution to avoid allowing tools to touch chassis.

NOTE: 
Before routing the subwoofer power harness (B) and amplifier power harness (C), you must first cut the plastic ties that are securing the connector bodies to the harness. Save the connector bodies for installation after the harnesses are routed into the cabin of the vehicle.

41. Open the cover to the Power Distribution Box (PDB) and remove the PDB battery cable nut.

42. Connect the ring terminal of both the five channel amplifier power harness (C) and the subwoofer power harness (B) to the PDB battery cable stud and reinstall the PDB battery cable nut.

⚠️ ⚠️ ⚠️ WARNING: 
It is critical that the PDB battery cable nut be tightened to the correct torque specification.
• Install the nut and tighten to 9Nm (80 lb-in).

43. Route the amplifier power harness (C) from the PDB along the vehicle electrical harness and toward the rubber grommet in the metal dash panel on the driver’s side.
• Use supplied wire ties (K) to secure the harnesses to the vehicle harness.

44. Route the subwoofer power harness (B) from the PDB along the vehicle electrical harness and toward the rubber grommet in the metal dash panel on the passenger’s side.
• Use supplied wire ties (K) to secure the harnesses to the vehicle harness.

NOTE: 
Driver’s side grommet shown, passenger’s side similar.

45. Make an “X” shaped incision in each grommet at the point indicated.

46. Pass both the subwoofer power harness (B) and amplifier power harness (C) into the cabin through the incisions in the grommets.
• Use supplied wire ties (K) to secure the harnesses to the vehicle harness.
47. Insert the amplifier power harness (C) terminals and the subwoofer power harness (B) terminals into their respective connector bodies and close retainer.

**NOTICE:**
The black two pin connector has a block-out plug installed to insure the terminal is inserted in the correct cavity.

**NOTICE:**
The terminals can be inserted into the white connector body in any order.

---

Cowl Side Trim Panel
Removal

**Both sides**
48. Pull upward to release the scuff plate clips and remove the front door scuff plate.
   - Detach the scuff plate from the weatherstrip.

**LH side**
49. Remove the cowl trim panel.

**RH side**
50. Remove the fuse panel access door.

---

51. Remove the pin-type retainer from the cowl trim panel.

52. Remove the cowl trim panel.

**Subwoofer Body Harness Routing**
53. Measure 120mm (5 in) from the edge of the RH rear scuff plate and make a 50mm (2 in) incision

54. Pull upward to release the scuff plate clips and remove the RH rear door scuff plate.
   - Detach the scuff plate from the weatherstrip.
55. Route the subwoofer body harness (F) along the factory electrical harness. Route under carpet and through the incision in the carpet.

   • Pull the B pillar cover and rubber molding away far enough to allow the subwoofer body harness connector to pass.
   • Use supplied wire ties (K) to secure the harness to the vehicle harness.

56. Connect the subwoofer body harness (F) to the subwoofer power harness (B).

   • Slide red connector lock to lock connectors.

57. Connect the five channel amplifier body harness (G) to the five channel amplifier power harness (C).

Subwoofer Body Harness Ground Connection

58. Remove the ground bolt below the glove compartment and connect the ground wire ring terminal of the subwoofer body harness (F) to the ground bolt.

   • Install the ground bolt and tighten to 9Nm (80 lb-in).

Five Channel Amplifier Body Harness Ground Connection

59. Remove the 3 steering column cover screws and the steering column cover.

60. Remove the LH bottom instrument panel lower reinforcement panel bolt and connect the ground wire ring terminal of the five channel amplifier body harness (G) to the bolt.

   • Install the bolt and tighten to 9Nm (80 lb-in).
Subwoofer Cabinet Installation

61. Set the subwoofer enclosure (A) in place and mark the three mounting holes.
   • Make sure the subwoofer enclosure (A) is pushed firmly rearward against the hump in the floor pan. Center the two front mounting brackets in the recessed areas.

62. Using a razor knife, cut 38 mm (1.5 in) diameter hole in the carpet around each of the marks.

63. Install one of the supplied nut-inserts (H) into each hole using the appropriate installation tool.

64. Connect the two subwoofer body harness (F) connectors to the subwoofer connectors.
   • Slide red connector locks to lock connectors.

   ![Image of subwoofer cabinet installation](image1.png)

65. Bolt subwoofer enclosure (A) in place using the three supplied bolts (I).
   • Tighten to 9Nm (80 lb-in).
   • Install the supplied bolt covers (J).

Five Channel Amplifier Installation

66. Remove the LH lower brake booster nut.

   ![Image of five channel amplifier installation](image2.png)

67. Remove the parking brake release handle bolt.

   ![Image of five channel amplifier installation](image3.png)
68. Connect the five channel amplifier body harness (G) to the five channel amplifier (D).

69. Connect the signal connector of the five channel amplifier body harness (G) to the signal connector of the subwoofer body harness (F).

70. Slide the five channel amplifier bracket (D) over the brake booster stud.

71. Line up the front hole of the five channel amplifier bracket (D) with the parking brake release lever hole and replace the parking brake release handle bolt.
   • Tighten to 3Nm (27 lb-in).

72. Replace the brake booster nut.
   • Tighten to 25Nm (18 lb-ft).

---

Door Trim Panel – Front Removal

**NOTE:**
LH side shown, RH side similar.

73. If equipped, remove the window regulator handle.
   1. Separate the handle cover from the handle.
   2. Remove the screw.
   3. Remove the window regulator handle.
   4. Remove the spacer.

74. Remove the 2 front door trim panel lower screws.
75. Remove the door handle cover plate.

76. Remove the pull cup screw cover.

77. Remove the pull cup screw.

78. Using a suitable trim tool, release the 2 clips on the outer edge of the window control switch bezel and pull the window control switch assembly straight upward.

79. Disconnect the window control switch electrical connectors.

80. Release the tabs and remove the window control switch from the bezel.

81. Remove the door handle screw.

82. Remove the 4 door speaker screws and the speaker.

83. Connect the electrical connector to the replacement speaker (E) and reinstall the 4 speaker screws.

NOTICE:
Do not pull directly outward on the front door trim panel, as damage may occur.

Remove the front door trim panel.

- Lift upward to remove the front door trim panel.
- Disconnect mirror adjustment switch electrical connector.
- Remove the front door handle.
- Guide the door handle through the opening in the trim panel.

Front Door Speaker Removal and Installation

82. Remove the 4 door speaker screws and the speaker.

- Disconnect the electrical connector.

83. Connect the electrical connector to the replacement speaker (E) and reinstall the 4 speaker screws.
Door Trim Panel – Rear

84. Remove the rear door garnish molding.
   • Pull outward to release the rear door garnish molding clips from the door.

85. Using a suitable trim tool, release the 2 clips on the outer edge of the window control switch bezel and pull the window control switch assembly straight upward.

86. Disconnect the window control switch electrical connector.

87. Release the tabs and remove the window control switch from the bezel.

88. Remove the rear door handle cover plate.

89. Remove the rear door handle screw.

90. Remove the 3 rear door trim panel screws.

91. **NOTICE:** Do not pull directly outward on the rear door trim panel. Damage may occur.

Remove the rear door trim panel.
   • Lift upward to remove the rear door trim panel and position aside.
   • Disconnect the interior handle activating cable from the interior door handle and remove the rear door trim panel.
   • Pull outward to release the garnish molding clips from the door.

Rear Door Speaker Removal and Installation

92. Remove the 4 door speaker screws and the speaker.
   • Disconnect the electrical connector.

93. Connect the electrical connector to the replacement speaker (E) and reinstall the 4 speaker screws.

Passenger Airbag Installation

**NOTICE:**
Do not handle the passenger air bag module by grabbing the edges of the passenger air bag cover. Damage to the passenger air bag module may occur.

94. Connect the 2 electrical connectors.

95. Position the passenger air bag module so that the tabs are oriented as shown.

96. Install the 3 passenger air bag module bolts.
   • Tighten to 8 Nm (71 lb-in).

Supplemental Restraint System (SRS) Repowering Procedure

Special Tool

**WARNING:**
Make sure no one is in the vehicle and there is nothing blocking or placed in front of any airbag when the battery is connected. Failure to follow these instructions may result in serious personal injury in the event of an accidental deployment.

Vehicle Communication Module (VCM) and Integrated Diagnostic System (IDS) software with appropriate hardware, or equivalent scan tool

97. Turn the ignition from OFF to ON.

98. Install RCM fuse 36 (10A) to the BCM and close the cover.
99. Connect the battery ground cable.
   • Tighten to 5Nm (44 lb-in)

100. Prove out the SRS as follows:
Turn the ignition from ON to OFF. Wait 10 seconds, then turn the ignition back to ON and monitor the air bag warning indicator with the air bag modules installed. The air bag warning indicator will light continuously for approximately 6 seconds and then turn off. If an air bag SRS fault is present, the air bag warning indicator will:
- fail to light.
- remain lit continuously.
- flash at a 5 Hz rate (RCM not configured).

The air bag warning indicator may not illuminate until approximately 30 seconds after the ignition has been turned from the OFF to the ON position. This is the time required for the RCM to complete the testing of the SRS. If the air bag warning indicator is inoperative and a SRS fault exists, a chime will sound in a pattern of 5 sets of 5 beeps. If this occurs, the air bag warning indicator and any SRS fault discovered must be diagnosed and repaired. Clear all continuous DTCs from the RCM and Occupant Classification System Module (OCSM) using a scan tool.

**Install Trim Panels**

101. Reverse steps to reinstall all previously removed parts.
   • Refer to torque specification table.

**Install System Fuses**

102. Install the supplied fuses (L) into the power harness fuse holders.

**Audio Control Module (ACM) Self-Diagnostic Mode**

**NOTE:**
If the Audio Front Control Module (ACM), FCDIM (if equipped), FCIM, or FDIM (if equipped) are inoperative (blank or do not power on), obtain the ACM part number by referencing the label attached to the Audio Front Control Module (ACM) chassis.

103. Turn the ACM on.

104. Operate the audio system in radio tuner AM/FM mode.

105. Press and hold the eject button, and within 1 second, press the seek up button. If supported, the speaker walk around test will begin, and the display will indicate each speaker as it is tested.

**NOTE:**
AHU Diagnostics refers to the Audio Front Control Module (ACM), EFP Diagnostics refers to the FCIM, and MFD Diagnostics (if supported) refers to the FCDIM (if equipped).

106. To exit the self-diagnostic mode, turn the Audio Front Control Module (ACM) off, or select "Exit Diagnostics."

<table>
<thead>
<tr>
<th>Torque Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor console rear bolt</td>
</tr>
<tr>
<td>Floor console-to-instrument</td>
</tr>
<tr>
<td>Front Controls Interface Module (FCIM) screws</td>
</tr>
<tr>
<td>Front Control/Display Interface Module (FCDIM) bolts</td>
</tr>
<tr>
<td>Audio Control Module (ACM) bolts</td>
</tr>
<tr>
<td>Door speaker screws</td>
</tr>
</tbody>
</table>
## Trouble Shooting Guide

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Subwoofer Output</td>
<td>Fuse not installed in inline fuse holder</td>
<td>Install fuse into fuse holder. (Refer to instructions)</td>
</tr>
<tr>
<td></td>
<td>Low battery voltage</td>
<td>Recharge the battery. (Refer to Vehicle Owner’s Manual)</td>
</tr>
<tr>
<td></td>
<td>Negative battery cable not connected</td>
<td>Reconnect negative battery cable (Refer to instructions)</td>
</tr>
<tr>
<td></td>
<td>Ground wire not grounded properly</td>
<td>Check ground wire with ohm meter to insure a positive ground.</td>
</tr>
<tr>
<td></td>
<td>Balance or Fader controls not set to neutral position</td>
<td>Set balance and fader controls to center settings. (only affects standalone subwoofer kit)</td>
</tr>
<tr>
<td></td>
<td>No low frequency information in music</td>
<td>Test system with several samples of music.</td>
</tr>
<tr>
<td></td>
<td>Subwoofer body harness not properly connected.</td>
<td>Check subwoofer body harness signal input and power input connectors to ensure all connectors are completely engaged.</td>
</tr>
<tr>
<td>Radio Not Coming On</td>
<td>Blown Audio Control Module (ACM) fuse</td>
<td>Replace Audio Control Module (ACM) fuse (Refer to Vehicle Owner’s Manual)</td>
</tr>
<tr>
<td></td>
<td>Low battery voltage</td>
<td>Recharge the battery. (Refer to Vehicle Owner’s Manual)</td>
</tr>
<tr>
<td></td>
<td>Amplifier body harness not properly connected at Audio Control Module (ACM)</td>
<td>Check amplifier body harness Audio Control Module (ACM) connectors to ensure all connectors are completely engaged.</td>
</tr>
<tr>
<td>Radio Comes On, But No Sound From Speakers</td>
<td>Fuse not installed in inline fuse holder</td>
<td>Install fuse into fuse holder. (Refer to instructions)</td>
</tr>
<tr>
<td></td>
<td>Ground wire not grounded properly</td>
<td>Check ground wire with ohm meter to insure a positive ground.</td>
</tr>
<tr>
<td></td>
<td>Low battery voltage</td>
<td>Recharge the battery. (Refer to Vehicle Owner’s Manual)</td>
</tr>
<tr>
<td></td>
<td>Amplifier body harness not properly connected to five channel amplifier.</td>
<td>Check amplifier body harness connectors to ensure all connectors are completely engaged.</td>
</tr>
</tbody>
</table>