

**Part Number: PT296-47141**  
**(Extension Box)**

**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	Extension Module w/BT cable
2	1	Wire harness
3	4	Screws (M5x8)

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description
1	1	GPS antenna
2	3	Wire clips
3	1	GPS plate
4	5	Wire ties
5	1	Foam pad w/ adhesive

**Additional Items Required For Installation**

Item #	Quantity Req'd.	Description
1	1	P/N: PT296-52150 GPS Antenna + Owner's Manual Kit
2	1	P/N: PT546-52150 Base Display Audio *If not pre-installed.
3	1	P/N: 86211-0D140 Extension bracket (RH)
4	1	P/N: 86212-0D140 Extension bracket (LH)

**Recommended Tools**

<b>Personal &amp; Vehicle Protection</b>	<b>Notes</b>
Blankets	
<b>Special Tools</b>	<b>Notes</b>
USB Flash Drive Media	Must contain MP3 songs
AUX Port Checker	Accessory Function Check
Music CD	Accessory Function Check
<b>Installation Tools</b>	<b>Notes</b>
Wrench	Open end, 10mm
Socket	8mm, 10mm
Socket Extension	6"
Screwdriver	Phillips #2
Torque Wrench	48 in·lbf (5.4N·m)
Scissors	
Electrical Tape	
Diagonal cutter	
<b>Special Chemicals</b>	<b>Notes</b>
VDC Approved Cleaner	

**General Applicability**

2015 MY Yaris H/B
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**Conflicts**

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**Recommended Sequence of Application**

Item #	Accessory
1	Premium Audio Upgrade (Extension Box)
2	Base Audio
3	

\*Mandatory

**Vehicle Service Parts** (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		
2		
3		

**Legend**

 **STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.

 **OPERATOR SAFETY:** Use caution to avoid risk of injury.

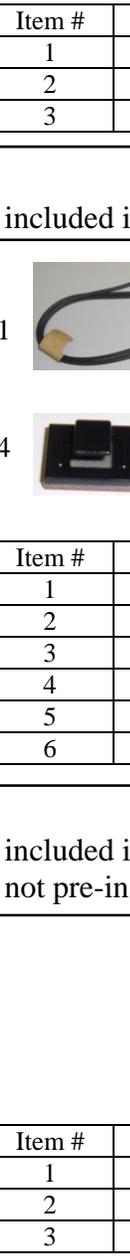
 **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

 **TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.

 **REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

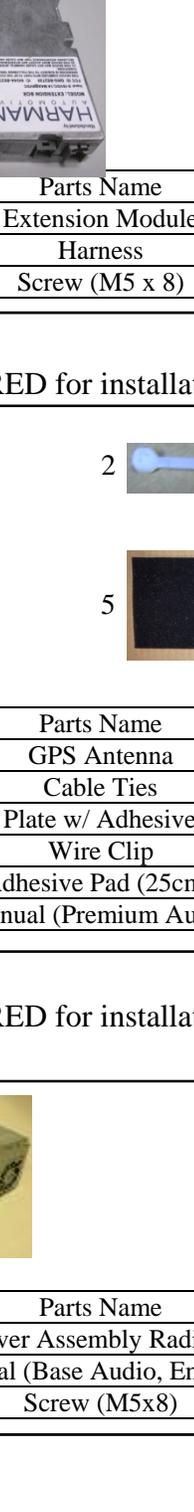
 **SAFETY TORQUE:** This mark indicates that torque is related to safety.

Parts Description: Extension Module Kit (PT296-47141)



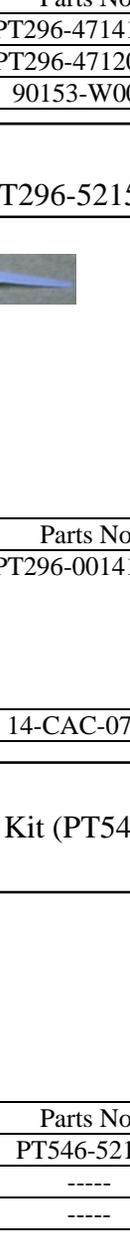
Item #	Parts Name	Parts No.	Qty
1	Extension Module	PT296-47141-AA	1
2	Harness	PT296-47120-AB	1
3	Screw (M5 x 8)	90153-W0001	6

Not included in kit but REQUIRED for installation: GPS Antenna Kit (PT296-52150)



Item #	Parts Name	Parts No.	Qty
1	GPS Antenna	PT296-00141-AA	1
2	Cable Ties		5
3	GPS Plate w/ Adhesive back		1
4	Wire Clip		3
5	Foam Adhesive Pad (25cm x 8cm)		1
6	Owner's Manual (Premium Audio, English)	14-CAC-07995	1

Not included in kit but REQUIRED for installation: Base Display Audio Kit (PT546-52150)  
(\*If not pre-installed)



Item #	Parts Name	Parts No.	Qty
1	Receiver Assembly Radio Unit	PT546-52150	1
2	Owner's Manual (Base Audio, English / Spanish)	----	1
3	Screw (M5x8)	----	8

Not included in kit but **REQUIRED** for installation:

Extension Bracket (RH) (86211-0D140)

Extension Bracket (LH) (86212-0D140)

1		2	
Item #	Parts Name	Parts No.	Qty
1	Extension Bracket (RH)	86211-0D140	1
2	Extension Bracket (LH)	86212-0D140	1

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.

**1. Prepare for the Installation.**

 **NOTE:** Engage the parking brake while working.

 **NOTE:** Wait 90 seconds or more after disconnecting the negative lead before disconnecting a yellow connector for the SRS airbag.

(a) Remove the negative battery cable (Fig. 1-1).

 (1) Protect the fender before starting.

 (2) Do not touch the positive terminal with any tool when removing the cable.

(b) Verify that the kit contents are complete.

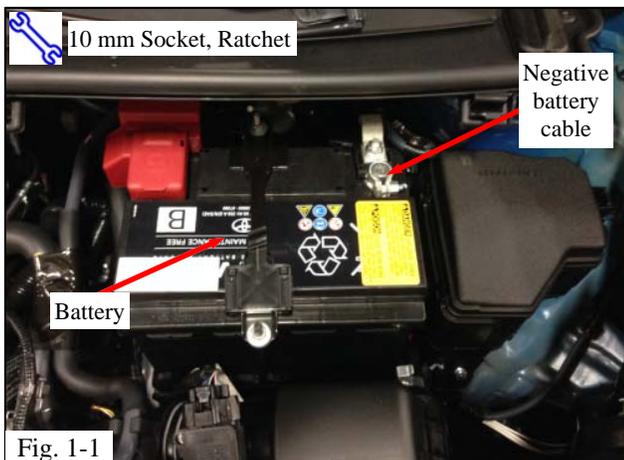


Fig. 1-1

## 2. Disassemble the Vehicle.

**STOP** NOTE: Place all removed parts on a protected surface.

**STOP** NOTE: When disconnecting wiring connectors, do not pull on the wiring, pull on the connector only.

(a) Remove the instrument panel meter ornament.

(1) Adjust the steering wheel to the lowest position for easy access to the panel.

(2) Manually pull the panel forward to disengage all seven clips (Fig. 2-1).

(3) Remove the panel.

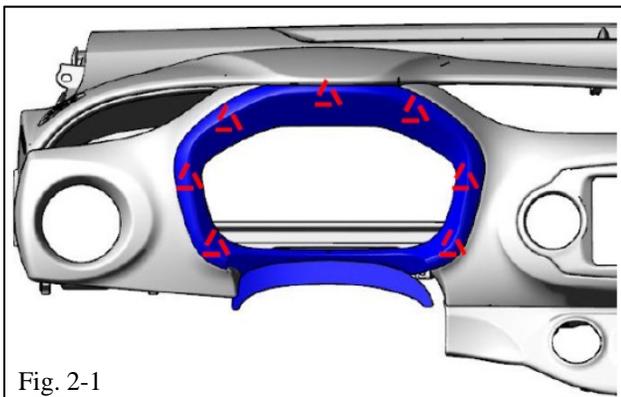


Fig. 2-1

(b) Remove the instrument cluster finish panel garnish sub-assembly (Fig. 2-2).

(1) Manually pull the panel forward to disengage all thirteen (13) clips.

**HINT:** Open the front passenger door and grab the panel at the RH end to disengage the clips in that area first.

(2) Remove the panel.

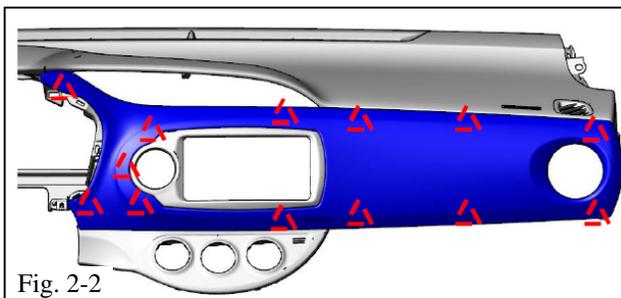


Fig. 2-2

(c) Remove the center instrument cluster finish panel sub-assembly (Fig. 2-3).

(1) Disengage the seven (7) clips.

(2) Disconnect the one (1) electrical connector.

(3) Remove the panel.

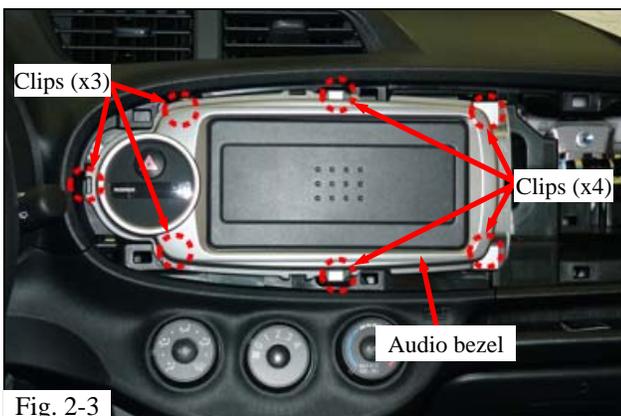
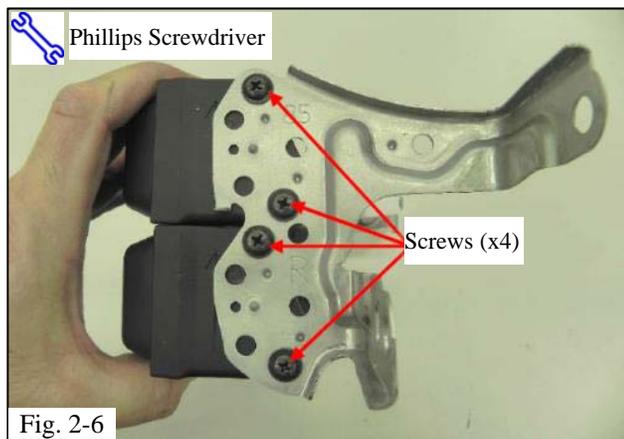


Fig. 2-3



**PPO Disassembly** (For DIO installations, jump to “DIO Disassembly”).

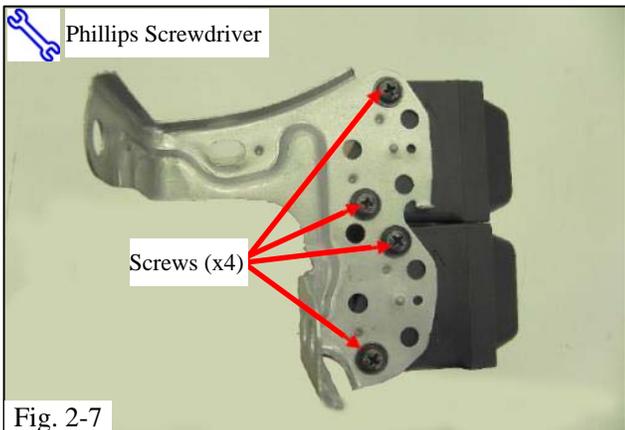
(d) Remove the stereo opening cover (Fig. 2-4).

(1) Remove the four (4) bolts and stereo opening cover.

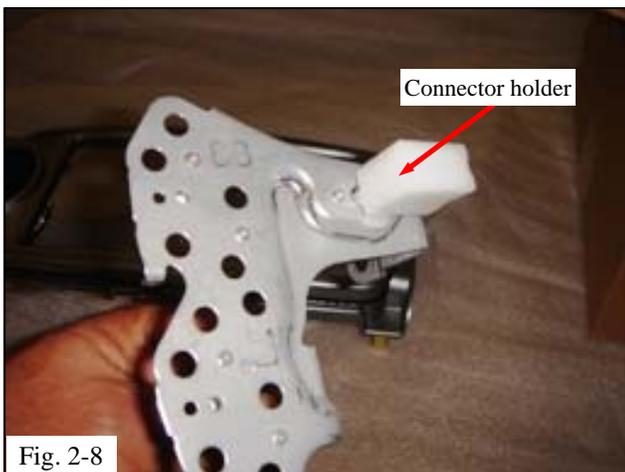
(2) Retain the four (4) bolts for installation.

(3) Disconnect the antenna cable from the connector holder (Fig. 2-5).

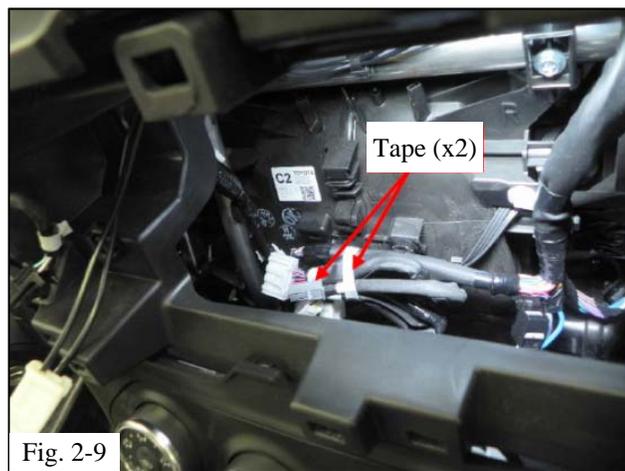
(e) Remove the four (4) screws securing the right hand bracket and remove the bracket from the cover (Fig. 2-6).



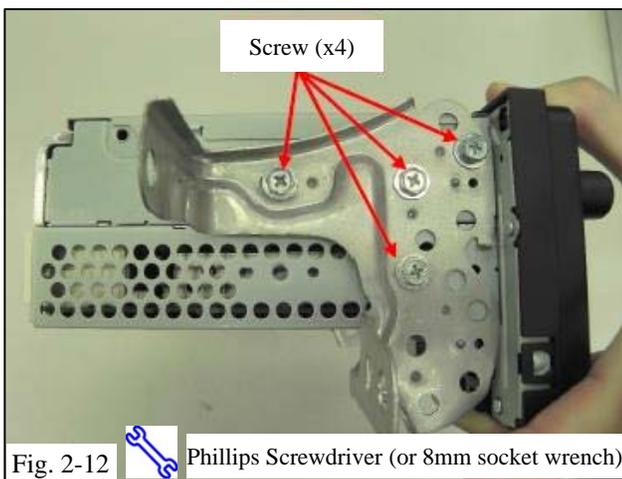
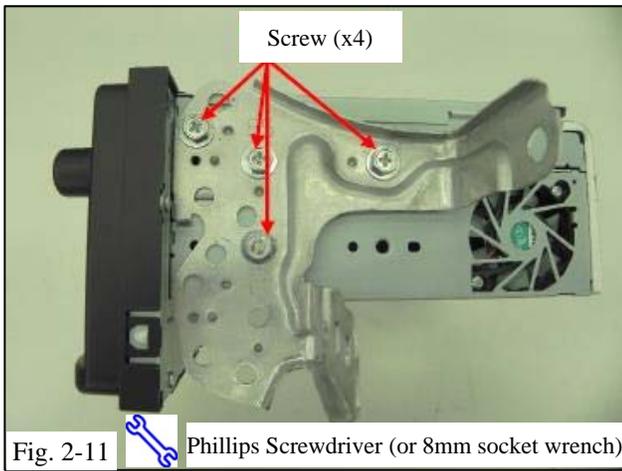
- (f) Remove the four (4) screws securing the left hand bracket and remove the bracket from the cover (Fig. 2-7).
- (g) Discard the audio opening cover and keep the screws and brackets for the next steps.



- (h) Remove the connector holder from the left hand bracket (Fig. 2-8).
- (i) Discard the connector holder.



- (j) Remove the taping on the harness for the radio unit (Fig. 2-9).



### DIO Disassembly

(k) Remove the DA radio (Fig. 2-10).

(1) Remove the four (4) bolts and the DA Radio.

(l) Remove the four (4) screws from each side of the DA radio (Fig. 2-11 & Fig. 2-12).

(m) Save the DA radio, brackets and eight (8) screws for later use.



Fig. 3-1

### 3. Install the GPS Antenna.

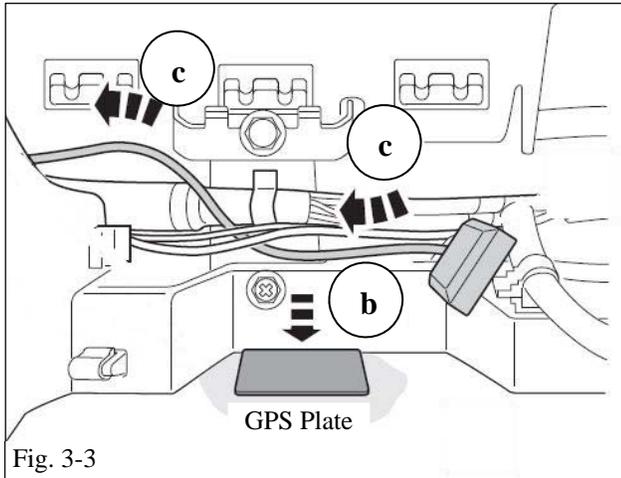
- (a) Remove the GPS plate (Fig. 3-1) from the parts bag kit.

**⚠ NOTE:** Before attaching the GPS plate, clean the mounting surface with VDC approved cleaner.

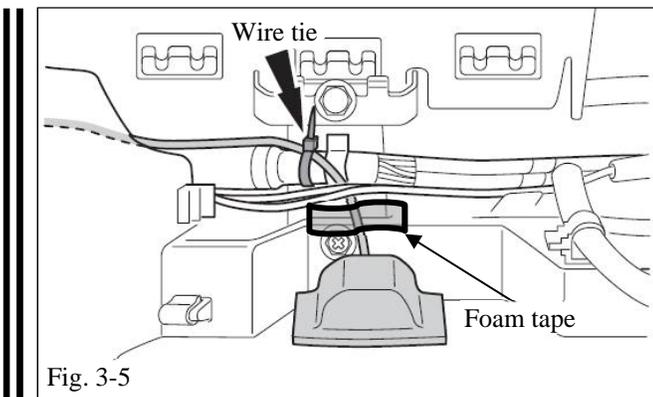
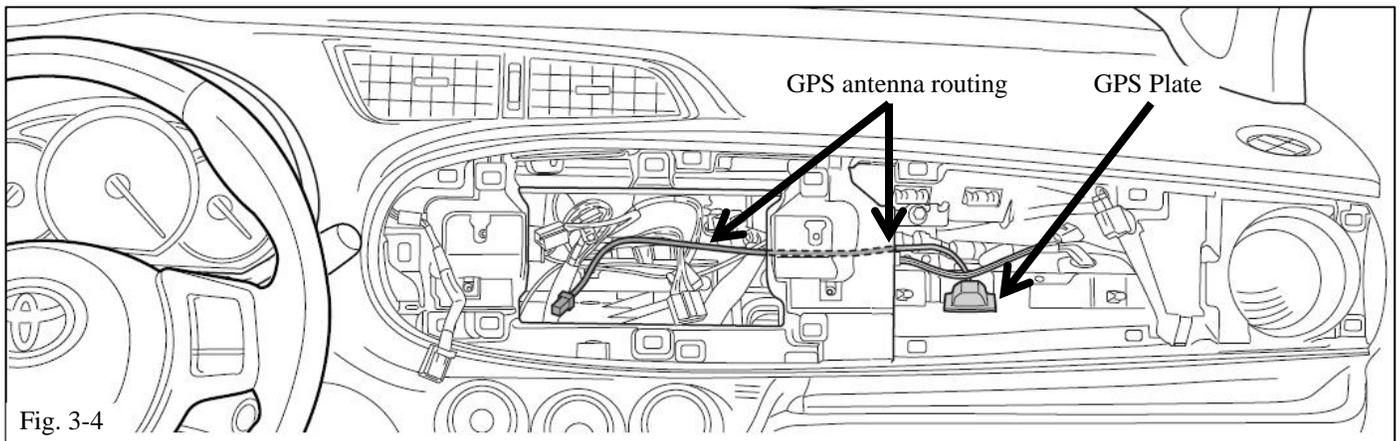
- (b) Remove the paper off the back of the GPS plate to expose the adhesive backing (Fig.3-2).



Fig. 3-2



- (c) Secure the GPS plate into the mounting position above the passenger glove box (Fig. 3-3 & Fig. 3-4).
- (d) Remove the GPS antenna from the kit bag.
- (e) Route the GPS antenna from the audio unit opening to the GPS plate. The antenna will magnetically attach to the plate (Fig. 3-3 & Fig. 3-4).

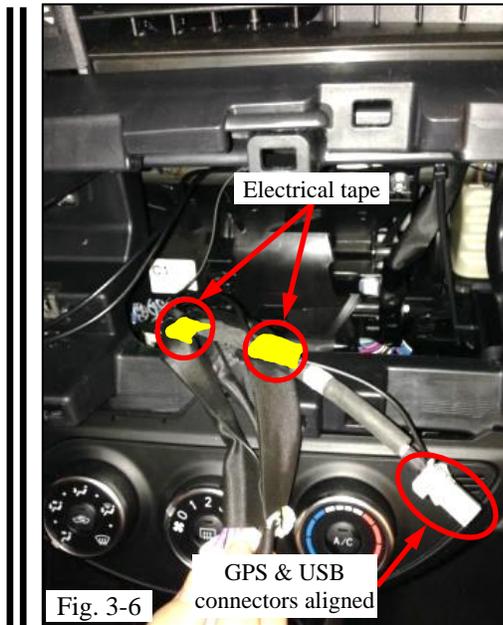


- (f) Secure the GPS antenna wire to the instrument panel harness bundle with a wire tie (Fig. 3-5).

(g) Align and secure the GPS wire to the USB cable.

(1) Align the GPS antenna connector to the USB connector.

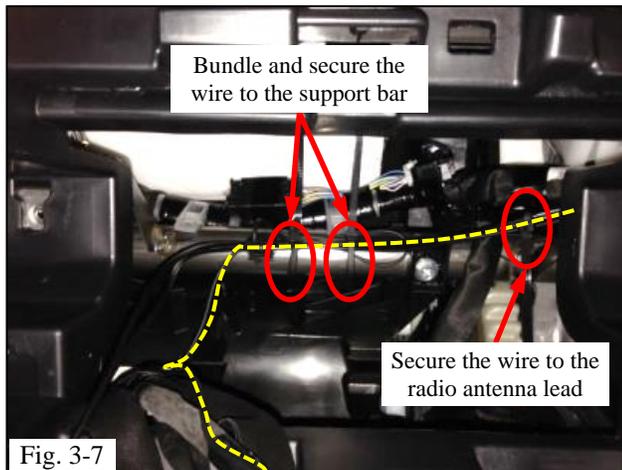
(2) Secure the GPS wire to the USB cable at two locations: One at the base of the USB cable branch and another half way between the USB cable branch to the USB connector (Fig. 3-6).

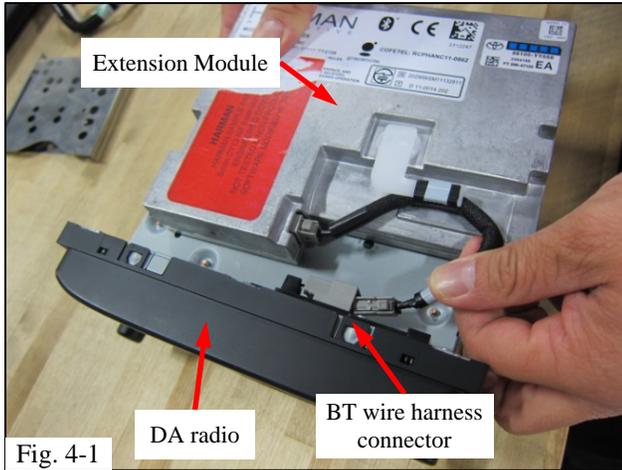


(h) Bundle and secure the extra length of the GPS antenna wire.

(1) Use a wire tie (x1) to secure the GPS antenna wire to the radio antenna wire (Fig. 3-7).

(2) Use two (2) wire ties to secure the bundled GPS antenna wire to the support bar (Fig. 3-7).

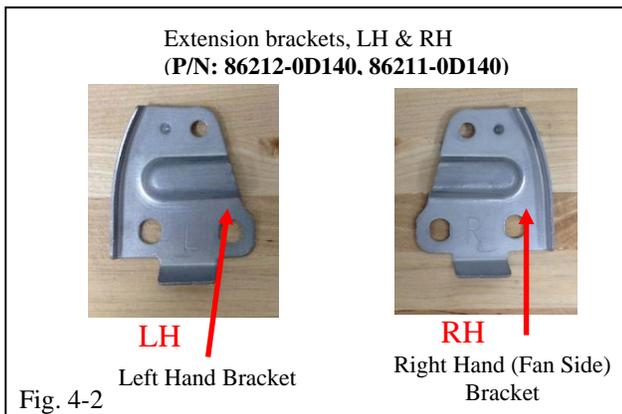




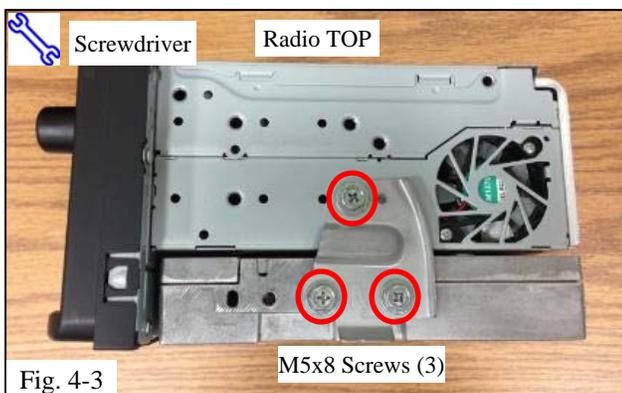
**4. Assemble the Display Audio and Extension Module.**

- (a) Lay the Display Audio (DA) radio on a flat surface with the bottom facing upward (Fig. 4-1).
- (b) Place the Extension Module on the bottom of the DA radio (Fig. 4-1).
- (c) Remove the break-away tape from the Bluetooth cable harness
- (d) Plug the Bluetooth antenna wire harness into the connector on the DA radio (Fig. 4-1).

**⚠ NOTE:** Make sure both ends of the harness are securely seated between the Extension Module and the DA radio.



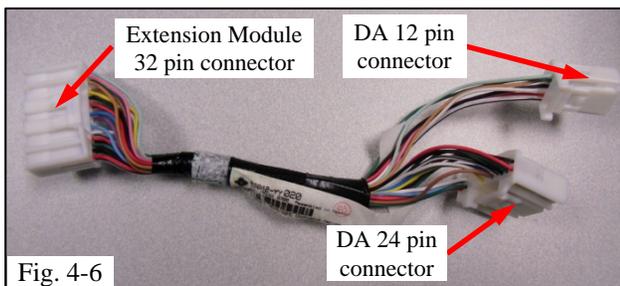
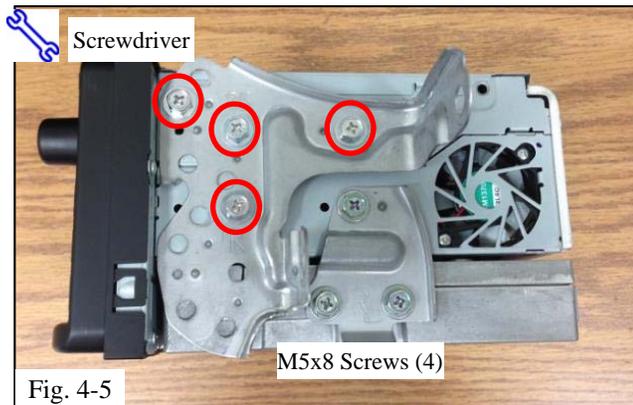
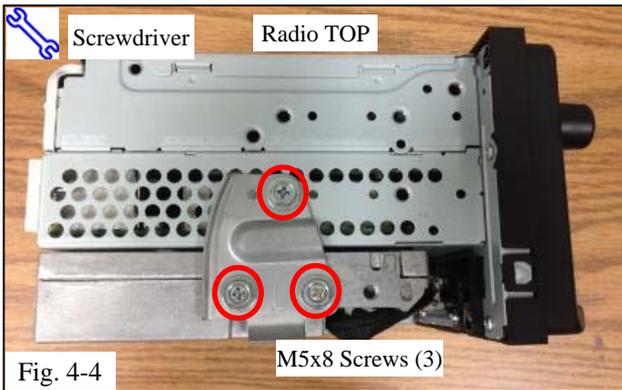
- (e) For the next step you will need the Extension Brackets (LH and RH) (P/N: **86212-0D140**, **86211-0D140**) (Fig. 4-2).



- (f) Set the DA radio and Extension Module on its side so that the radio fan is facing upward. Align the Extension Bracket (RH) with the mounting screw holes and fasten the bracket with three (3) screws (Fig. 4-3).

**⚠ NOTE:** Make sure the Extension Module is flat against the DA radio before tightening the screws.

- (g) Turn the DA radio and Extension Module assembly over.



(h) Align the Extension Bracket (LH) to the mounting screw holes and fasten the bracket with three (3) screws (Fig. 4-4).

**⚠ NOTE:** Make sure the Extension Module is flat against the DA radio before tightening the screws.

(i) Place the radio back on the side with the fan facing upward.

(j) Mount the RH radio bracket, removed in Step 2(e) (DIO) or 2(l) (PPO) to the radio. Fasten the bracket with four (4) screws (Fig. 4-5).

(k) Mount the LH radio bracket to the other side of the radio using four (4) screws.

(l) Obtain the Extension Module/DA interface wire harness, which is included in the Extension Module kit (Fig. 4-6).

(m) Connect the wire harness between the Extension Module and DA radio (Fig. 4-7).

5. Install the Receiver Assembly Radio Unit (wire harness connections).

- (a) Connect the radio antenna cable, 28 Pin, 6 Pin, and 10 pin harness connector cables to the DA radio (Fig. 5-1 & Fig. 5-2).
- (b) Connect the USB cable and GPS antenna cable to the extension module (Fig. 5-1 and Fig. 5-2).



**Do not connect the USB cable to the DA radio. The USB cable must be connected to the extension module (Fig. 5-1).**

**No harness connection should be made to the 16 pin connector (Fig. 5-1).**

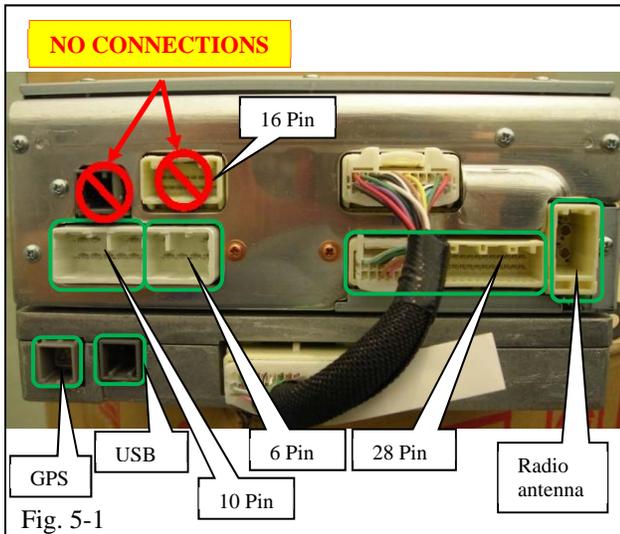


Fig. 5-1

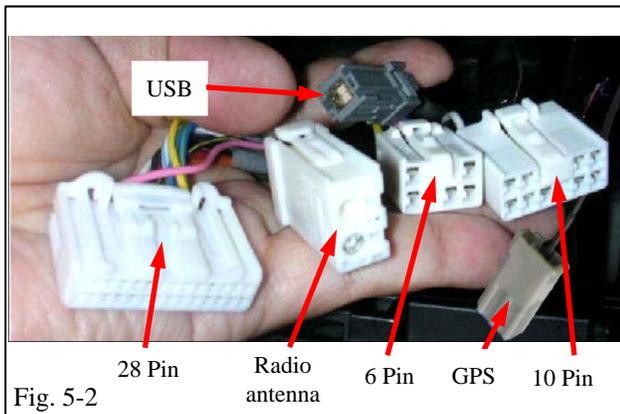


Fig. 5-2

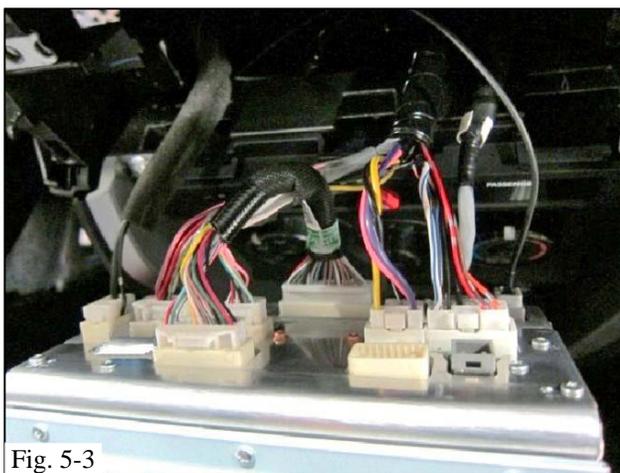


Fig. 5-3

- (c) Confirm all harness connections are completed (Fig. 5-3).

**6. Install the Receiver Assembly Radio Unit (vehicle mounting).**

- (a) Insert the radio into the dashboard opening.
- (b) Fasten the audio unit with the four bolts removed in Step 2(d) (PPO) or 2(k) (DIO) (Fig. 6-1 & Fig. 6-2).

**7. Perform a Map Function Test.**

- (a) Temporarily reconnect the negative battery cable.
- (b) Turn the ignition key to ACC and turn the audio unit ON.





Fig. 7-1

(c) Press the “APPS” hard key (H/K) (Fig. 7-1).

**STOP WARNING:** If you are presented with the screen in Fig. 7-2, temporarily disconnect the battery cable and check the connection beginning at Step 4(m) (Fig. 4-7). Once the connections are verified, proceed to “**Map Trouble Shooting**” on the next page.



Fig. 7-2



Fig. 7-3

(d) Press “Map” in the Application menu (Fig. 7-3).

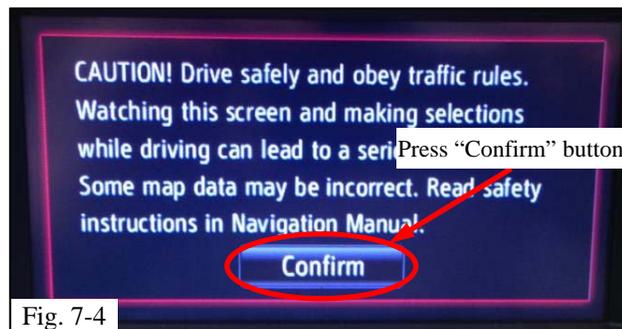


Fig. 7-4

(e) Press the “Confirm” button on the DA touch screen (Fig. 7-4).

**NOTE:** This screen automatically goes away after 5 seconds if the “Confirm” button is not pressed and will then take you to the map screen (Fig. 7-5).



- (f) Confirm the map screen is displayed (Fig. 7-5).
  - (1) If so, skip to Step 8, “**USB Function Test.**”
  - (2) If not, proceed to “**Map Trouble Shooting.**”

**Map Trouble Shooting**

- (1) If you are presented with the screen shown (Fig. 7-6) and the extension module has been properly installed, perform the following procedure.

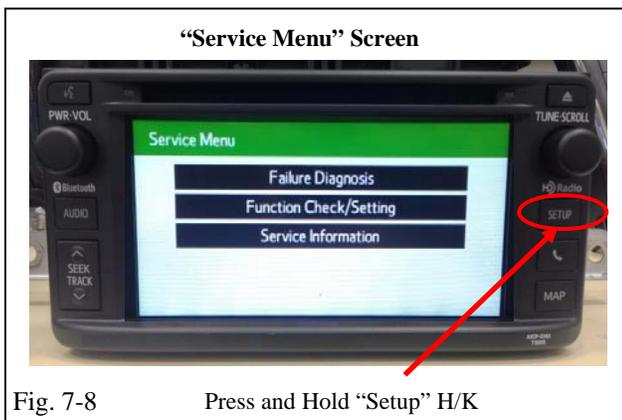


- (2) While pressing and holding the “Audio” H/K (Fig. 7-7), switch ON and OFF the headlights three consecutive times in quick succession.

ON>OFF>ON>OFF>ON>OFF



- (3) The Service Menu screen will appear. (Fig. 7-8).
- (4) If the Service Menu screen does not appear, repeat steps 1 and 2.
- (5) With the Service Menu screen shown, press and hold the “SETUP” H/K (Fig. 7-8). Wait for the radio to restart, then release “SETUP” H/K.



- (6) Turn Acc OFF.
- (7) Turn Acc ON.
- (8) Go back and repeat the “Map Function Test.”



**8. Perform a USB Function Test.**

- (a) Connect the USB flash drive media to the vehicle's USB/AUX connector in the center console (Fig. 8-1).

**⚠ NOTE:** The screen may go to USB mode automatically and start playing music. If so, skip to Step 8(d).



- (b) Press the "Source" button on the touch screen (Fig. 5-2).

**⚠ NOTE:** You may need to press the "AUDIO" hard key first.



- (c) Select the USB mode (Fig 8-3).
- (d) Confirm a song plays.
- (e) Remove the flash drive from the USB connector.

**9. Perform a Radio Antenna check.**

- (a) Press the "Source" button (Fig 9-1).

**⚠ NOTE:** You may need to press the "AUDIO" hard key first.





(b) Press the FM source select button (Fig. 9-2).



(c) Press the SEEK/TRACK Up H/K button (Fig. 9-3). Confirm that the radio tunes to a FM radio station and sound is heard.

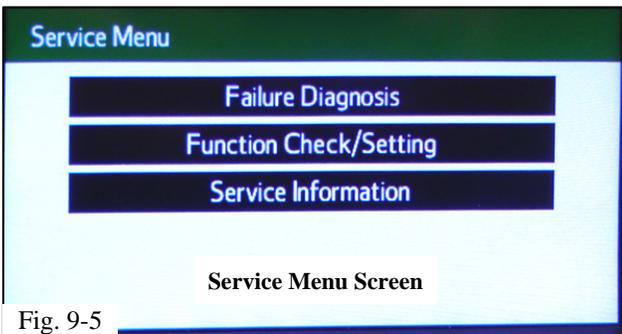
**NOTE:** To perform the following function tests, you will need to enter the DA Service Menu (Fig. 9-5).

To access the Service Menu, do the following.



- (1) Turn ACC ON.
- (2) Once the DA radio is powered on, press and hold the “Audio” hard key (Fig. 9-4).
- (3) While holding the Audio H/K, switch ON and OFF the headlights three consecutive times in quick succession.

ON>OFF>ON>OFF>ON>OFF



- (4) The Service Menu screen will appear (Fig. 9-5).
- (5) If the Service Menu screen does not appear, repeat steps 2 and 3.

**10. Perform a GPS Antenna and Bluetooth Antenna check.**

(a) Press the “Function Check/Setting” button (Fig. 10-1).

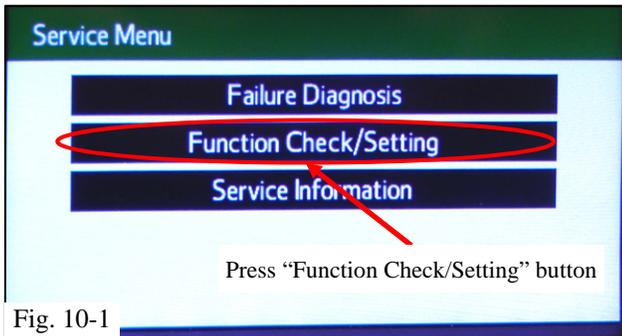


Fig. 10-1

(b) Press the “Next Page” button (Fig. 10-2).

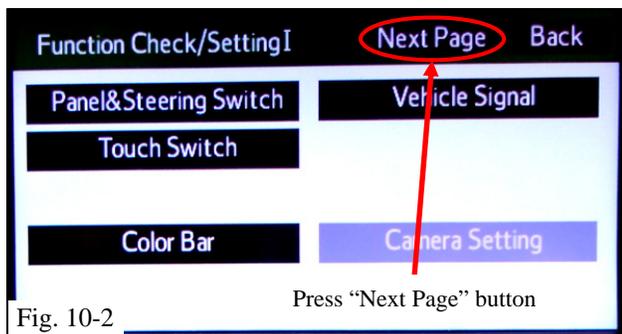


Fig. 10-2

(c) Press the “EXT BOX” button (Fig. 10-3).

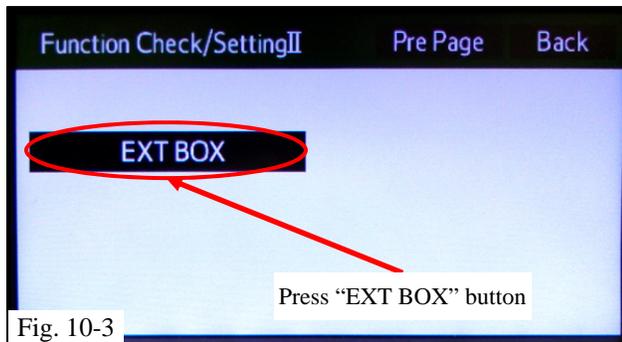


Fig. 10-3

(d) Press the “Diagnostics” button on the “Extension Module Service Mode” screen (Fig. 10-4).

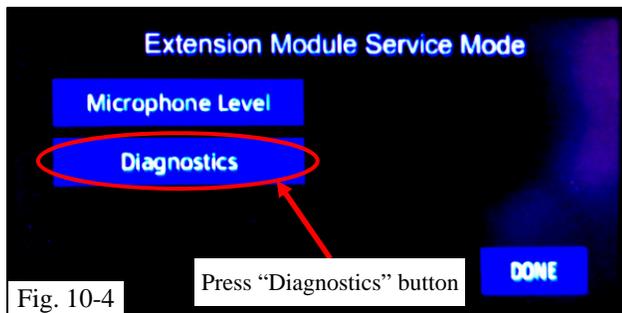


Fig. 10-4

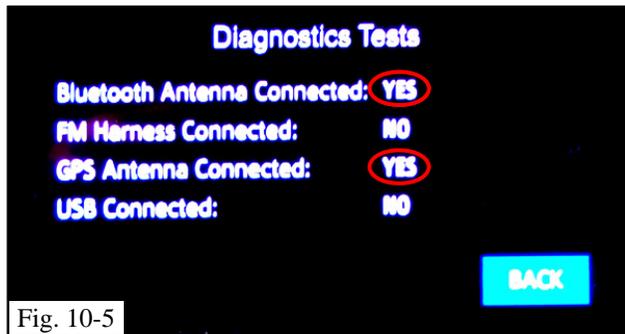


Fig. 10-5

- (e) Confirm the following connections are displayed (Fig. 10-5).

Bluetooth Antenna Connection: “YES”

GPS Antenna Connected: “YES”

### 11. Perform a Hands Free Microphone Check.

- (a) Press the “BACK” button (Fig. 11-1).

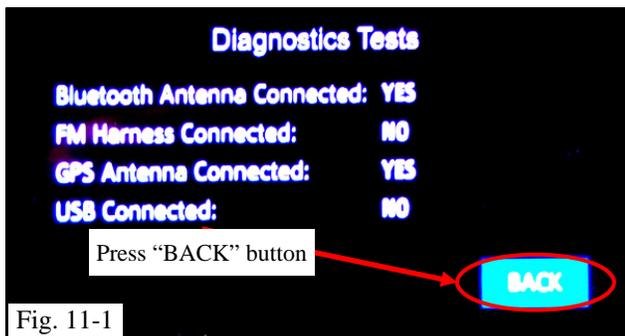


Fig. 11-1

- (b) Press the “Microphone Level” button (Fig. 11-2).

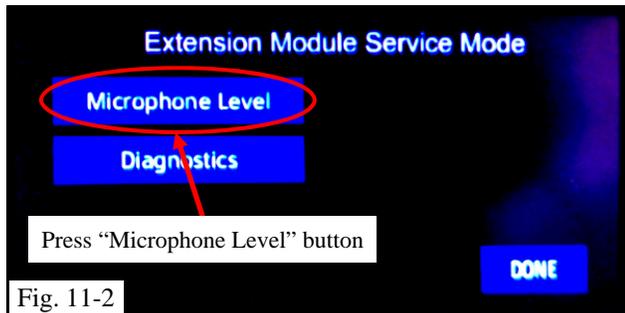


Fig. 11-2

- (c) While sitting in the driver’s seat, speak loud and clearly, preferably looking in the direction of the microphone location in the vehicle. Say, “Check! Check! Test! Test!” Watch the Microphone Level Indicator and confirm the level indicator is responding with your voice (Fig. 11-3).

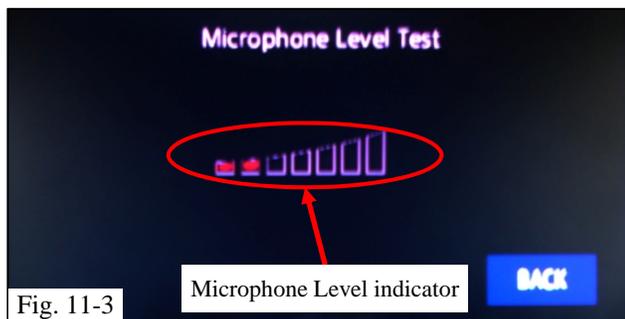
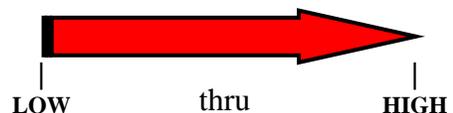


Fig. 11-3

#### Microphone Level Indicator response



- (d) Turn the ignition key to OFF.
- (e) Disconnect the negative battery cable.

**12. Complete the installation.**

- (a) Reassemble the vehicle.
  - (1) Reconnect the disconnected electrical connector (Fig. 12-1) then reinstall the center instrument cluster finish panel sub-assembly around the radio.
  - (2) Reinstall the instrument cluster finish panel garnish sub-assembly.

**NOTE:** Open the front passenger door to aid the insertion of the right part of the panel.

- (3) Reinstall the instrument panel meter ornament.

- (b) Verify the panels fit together properly with no uneven gaps between them.

- (c) Clean up and remove any trash.

- (d) Reconnect the vehicle's negative battery cable (Fig. 12-2).

- (1) Position the negative cable at the original factory position.

- (2) Tighten the nut to 48 in•lbf (5.4 N•m).

**⚠ Torque: 48 in•lbf (5.4 N•m)**

- (3) Do not touch the positive terminal with any tool when replacing the cable.

- (e) Perform the functional checks.

- (f) Place the Owner's Manual (Premium) in the glove box.



Fig. 12-1

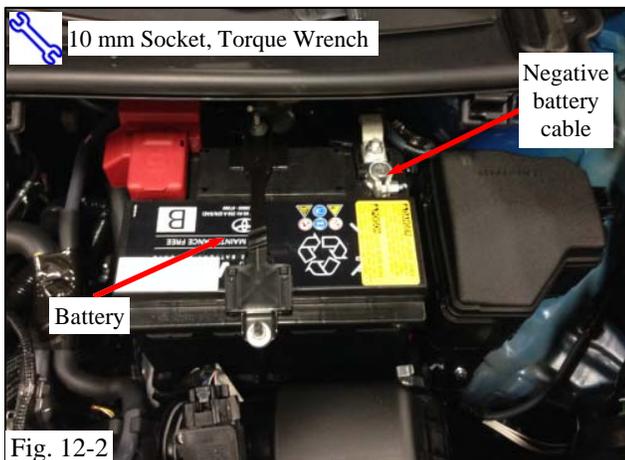


Fig. 12-2

Checklist - these points **MUST** be checked to ensure a quality installation.

Accessory Function Checks

- Insert CD audio disc and confirm operation
- Turn radio on and confirm operation
- Antenna is functional
- Fader
- Balance
- Illumination
- AUX port

Functioning CD player  
 Radio functions properly  
 Reception of AM/FM stations  
 Functioning balance to front and rear speakers  
 Functioning balance to left and right speakers  
 Illumination should function properly  
 AUX port should function properly

Vehicle Function Checks

- Hazard switch
- Steering wheel audio controls
- Rheostat/dimmer
- Security warning light
- Combination meter

Proper operation of the hazard switch  
 Functioning audio controls  
 Functioning dimmer control  
 Proper operation of the security warning light  
 Proper operation of combination meter

Vehicle Appearance Check

- Panel fit
- After accessory installation and removal of protective cover(s), perform a visual inspection.

Panels should fit and align properly  
 Ensure no damage (including scuffs and scratches) was caused during the installation process.  
 (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)