

**Part Number: PT296-18190-20**  
**PT296-18191**

**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	Harman Base Audio

**Hardware Bag Contents**

Item #	Quantity Req'd.	Description
1	1	Amp Jumper Harness
2	4	Wire tie (100mm x Qty 4)

**Additional Items Required For Installation**

Item #	Quantity Req'd.	Description
1	6	Bolt (M5x0.8): 90153-W0001 or 90153-50010
2	1	USB port P/N 86190-0D060

**Conflicts**

None
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**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
Smart Phone with USB cable	
<b>Installation Tools</b>	<b>Notes</b>
Socket	8mm, 10mm
Socket Extension	6"
Screwdriver	Phillips, #2
Screwdriver	Phillips, Stubby
Torque Wrench	5.4N·m (48 lbf·in)
Pliers	
Electrical Tape	
<b>Special Chemicals</b>	<b>Notes</b>
Cleaner	VDC Approved

**General Applicability**

MY19 and newer 86 models
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**Recommended Sequence of Application**

Item #	Accessory
1	Harman Base Audio
2	Hardware Bag content
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.

 **REGULATORY MARK:** This mark indicates the component is related to regulatory compliance

Parts Description of Harman Base Audio (PT296-18190-20)

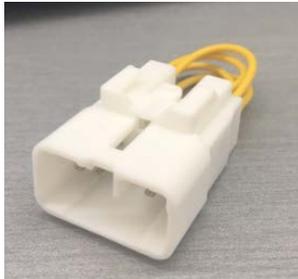
1



Item #	Part Name	Part No.	Qty
1	Harman Base Audio	PT296-18190-20	1

Parts Description of Hardware bag (PT296-18191)

1



2



Item #	Part Name	Part No.	Qty
1	Amp Jumper Harness		1
2	Wire tie		4

Not included in kit but REQUIRED for installation:

1



2



Item #	Part Name	Part No.	Qty
1	Bolt (M5x0.8)	90153-W0001 or 90153-50010	6
2	USB port	86190-0D060	1

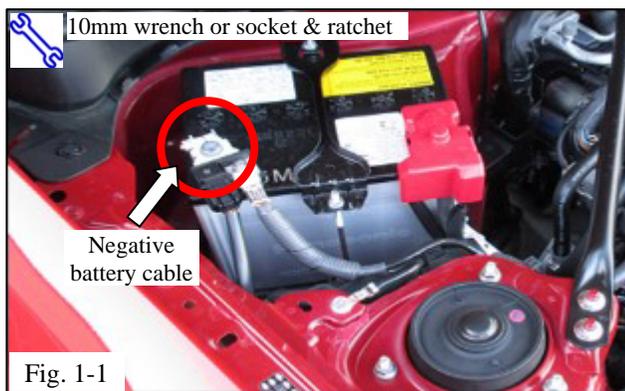
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

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. Protect the Vehicle.

- STOP** (a) Protect the fender before starting.
- (b) Remove the negative battery cable (Fig. 1-1).
- +** **CAUTION: Do not touch the positive terminal with any tool when removing cable.**
- (c) Check the kit contents.
- !** (d) Cover the steering wheel with a blanket to prevent scratches.

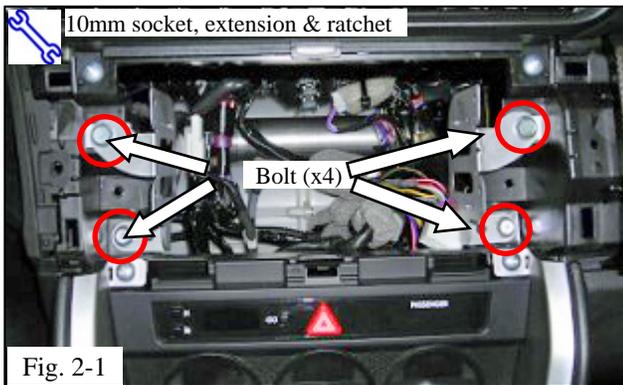
### 2. Disassemble the Vehicle.

**STOP** **NOTE: Place all removed parts on a protected surface. When disconnecting wiring connectors DO NOT pull on the wiring, pull on the connector only.**

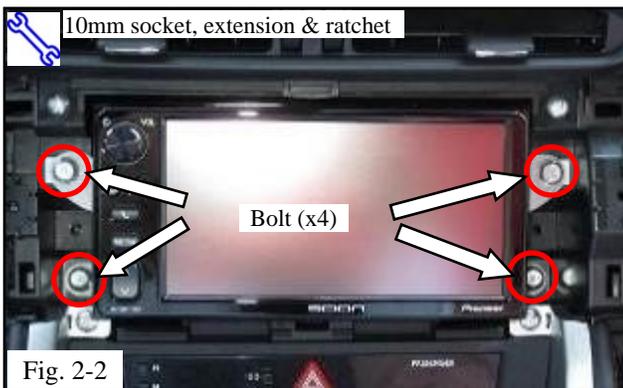
**STOP** **NOTE: Engage the parking brake while working.**

- (a) Remove trim panel (Fig. 2-1).

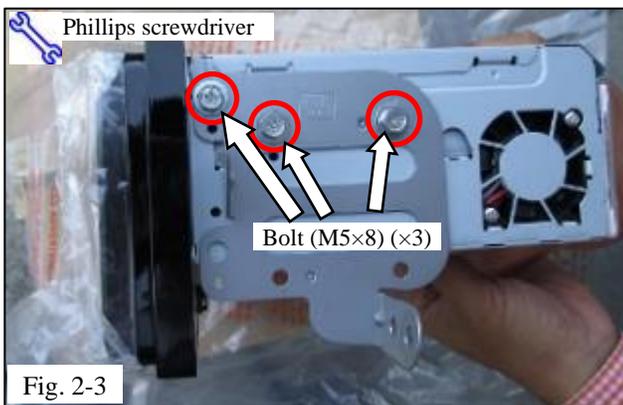




(b) Remove the 4 bolts to remove the right and left brackets from the interior panel (Fig. 2-1). Save the bolts for reuse. If vehicle has already a base display audio follow steps (b) and (c) otherwise go to step 3.

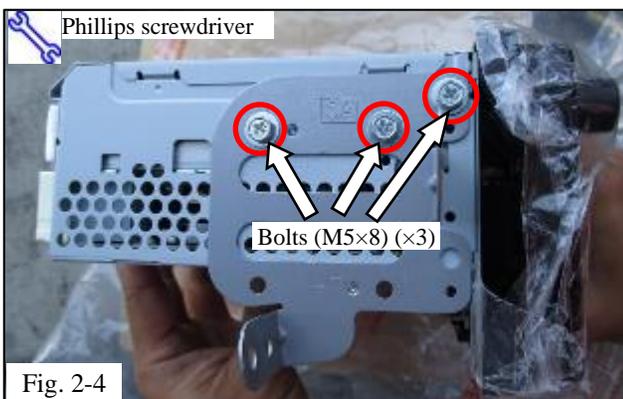


(c) Remove the 4 bolts, disconnect all electrical connections from the back of the base display radio and then remove the radio (Fig. 2-2). Save the bolts for reuse.



(d) Remove the RH and LH brackets from the audio unit.

(1) Remove the three (3) bolts from the RH bracket and remove the RH bracket (Fig. 2-3).



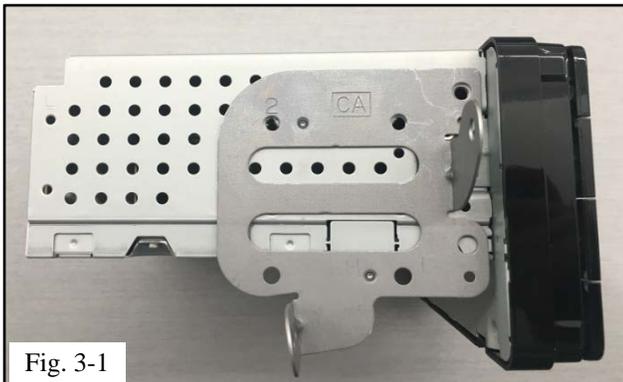
(2) Remove the three (3) bolts from the LH bracket and remove the LH bracket (Fig. 2-4).

⚠ (3) Save the brackets and bolts.

### 3. Assemble the Harman Base Audio

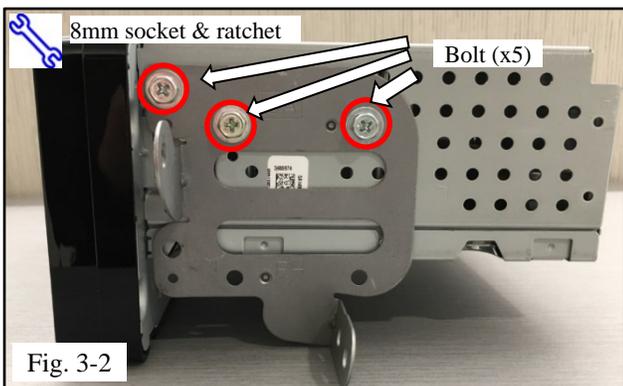
- (a) Install the LH and RH brackets to the audio unit (Fig. 3-1).

**⚠ NOTE: Make sure the holes line up to the radio and the extension module.**



- (b) Fasten the LH and RH mounting bracket to the radio using three bolts from the original audio kit (Fig. 3.2).

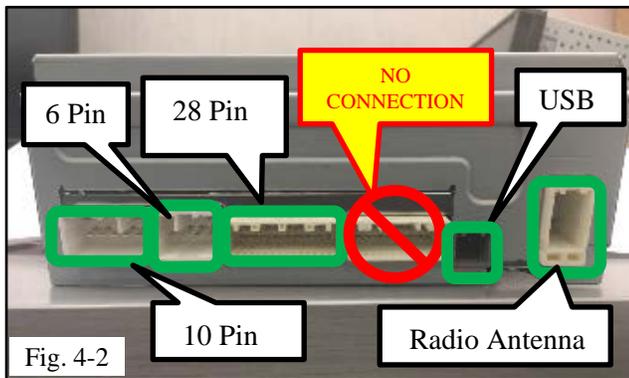
**⚠ Torque: 2.5 Nm**



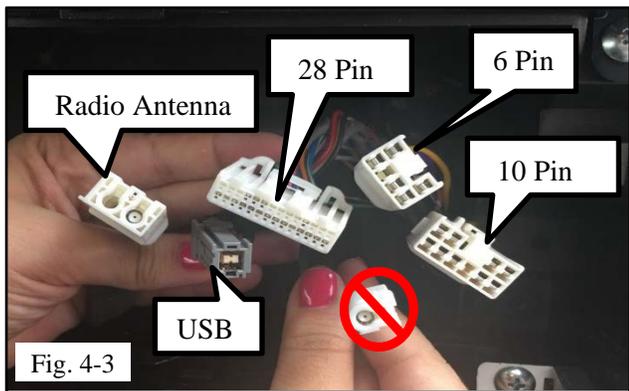
#### 4. Install Harman Base Audio in the Vehicle



- (a) Locate connectors (Fig. 4-1).
- (b) Apply Protective Tape to Area shown in (Fig 4-1).



- (c) Connect the radio antenna cable, USB, 28 pin, 6 pin, and 10 pin harness connector cables to the base display radio (Fig. 4-2 & Fig. 4-3).



- (d) Confirm all harness connections are completed (Fig. 4-4).
- (e) If present, tape back the unused blue wire with spade connector to the 28-pin bundle using electrical tape.

**5. Install the Base Audio (Mount in the Vehicle)**

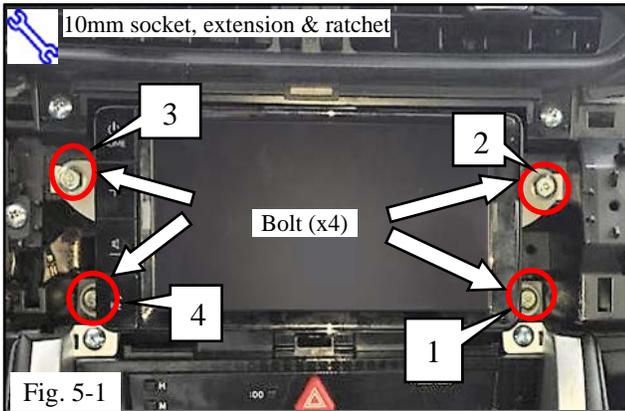
(a) Install the Base Audio into the instrument panel (Fig. 5-1).

(b) In the sequence shown (1 to 4), insert and hand start each bolt (Fig. 5-1).

**⚠ NOTE: The bolts can easily become stripped if they are started with a drill or driver tool.**

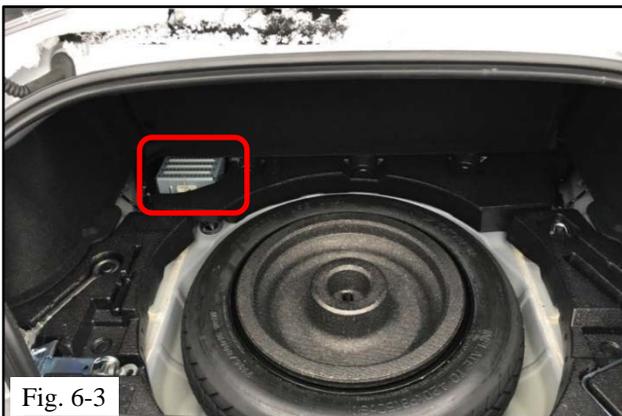
(c) Tighten all bolts in the same sequence (Fig. 5-1).

(d) Add trim bezel (Fig. 5-2 & Fig. 5-3).

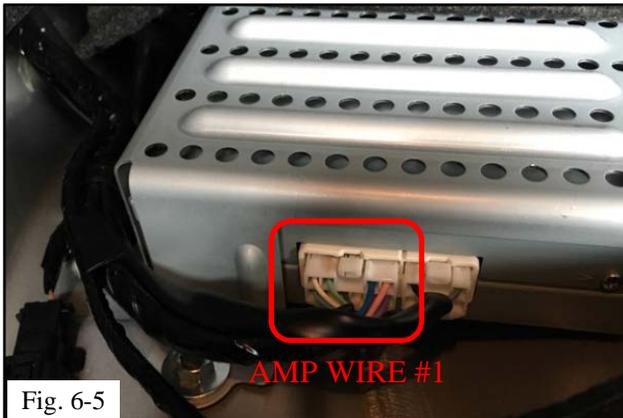


## 6. Install the Amp Jumper Harness (Hardware Bag)

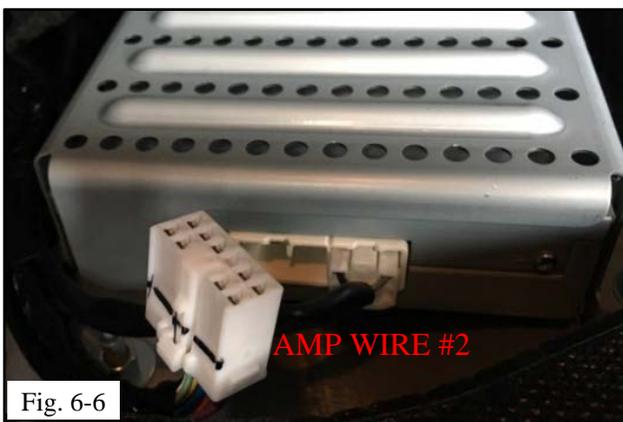
- (a) Open the trunk and remove the carpet (Fig. 6-1 and 6-2).



- (b) Locate vehicle amplifier (Fig. 6-3 & Fig. 6-4).

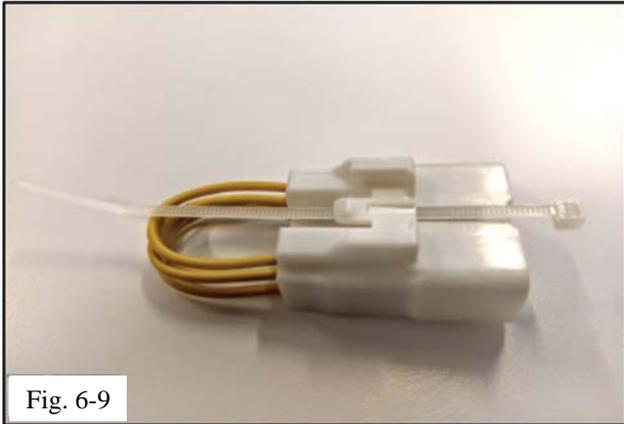


- (c) Disconnect Amp Wire #1 connector
- (d) from vehicle amplifier (Fig. 6-5 & Fig. 6-6).

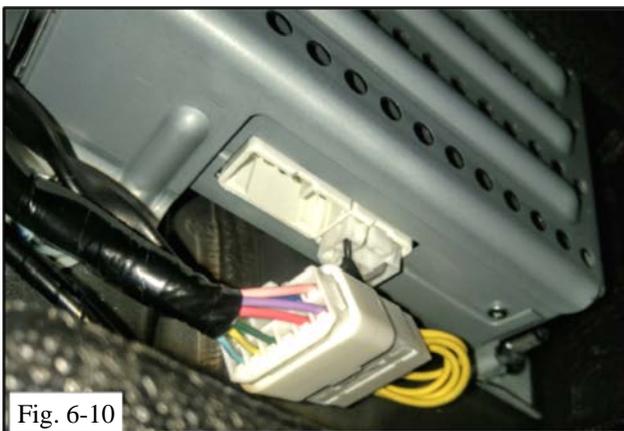


- (e) Connect the jumper harness to the amplifier harness disconnected (Fig. 6-7 & Fig. 6-8).



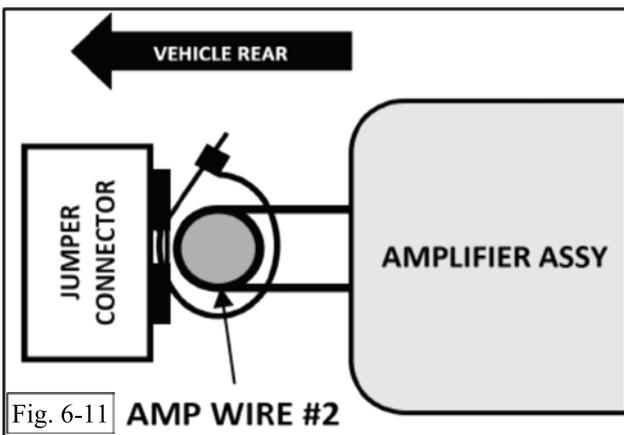


- (f) Pass one wire tie from hardware bag through the center channel of the jumper harness connector exactly as shown in (Fig. 6-9).



- (g) Loop the wire tie around the Amp Wire #2 harness (Fig. 6-6) that is still connected to amplifier, and secure at position shown in (Fig. 6-10, Fig. 6-11).

**STOP** NOTE: Take care to align the jumper Connector to the vehicle rear of amp wire #2 exactly as shown in (Fig. 6-11) Failure to align in this position may cause damage to jumper wire.



- (h) Install back the carpet in the trunk (Fig. 6-2).

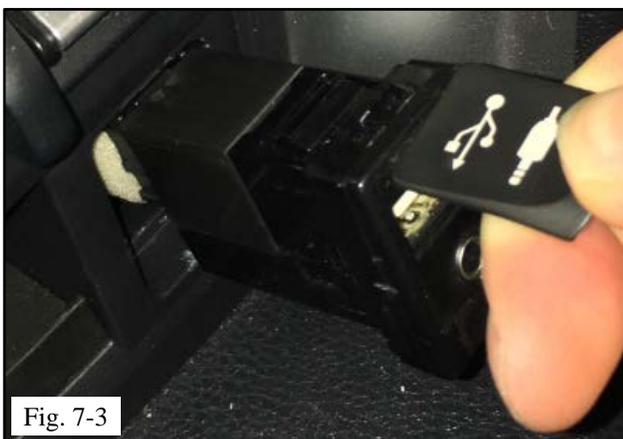
### 7. Replace the USB Stereo Jack Adapter

(a) Locate USB stereo jack adapter (Fig. 7-1).



(b) Disassemble USB stereo jack adapter by pulling from the USB port rubber cover. (Fig. 7-2 and Fig. 7.3).

**NOTE:** Apply gentle pulling force to the USB cover. If pulled sharply, the USB cover may detach from the USB port.







- (e) Connect USB port P/N 86190-0D060 by pushing cable connector into USB port until click sound is heard, to ensure the connector is properly engaged pull cable gently. (Fig. 7-8).

**⚠ NOTE: Note that replacement USB port does not have Aux Jack picture on cover.**



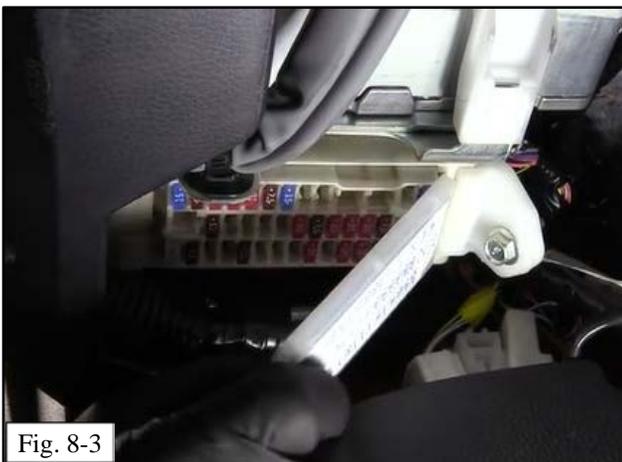
- (f) Push USB port back to its original assembly position (Fig. 7-9).

**8. Remove the Amplifier Fuse.**

- (a) Locate Interior Fuse box below instrument panel on driver side (Fig. 8-1 and Fig. 8-2).



- (b) Remove fuse cover (Fig. 8-3)



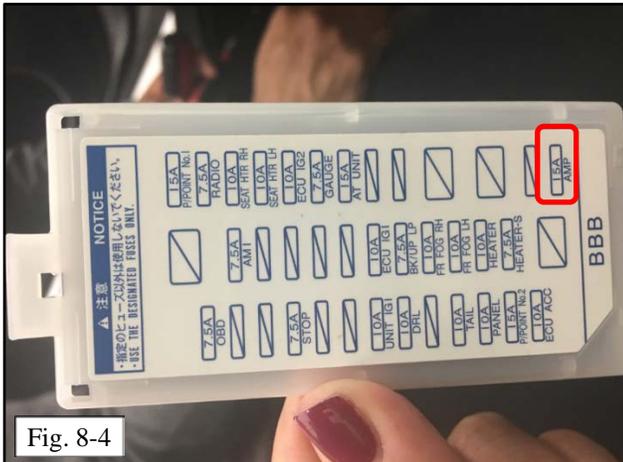


Fig. 8-4

(c) Identify Amplifier fuse as indicated in fuse cover (Fig. 8-4 and Fig. 8-5).



Fig. 8-5



Pliers  
Fig. 8-6

(d) Take out fuse using pliers (Fig. 8-6).  
(e) Install fuse cover back (Fig. 8-2)

**9. Complete the Installation.**

- (a) Complete the reassembly of the vehicle.
  - (1) Reconnect any disconnected connectors.
  - (2) Reinstall all removed panels
  - (3) Verify the panels fit together properly with no uneven gaps.
- (b) Clean up and remove any trash.
- (c) Reconnect the vehicle's negative battery cable (Fig. 9-1).

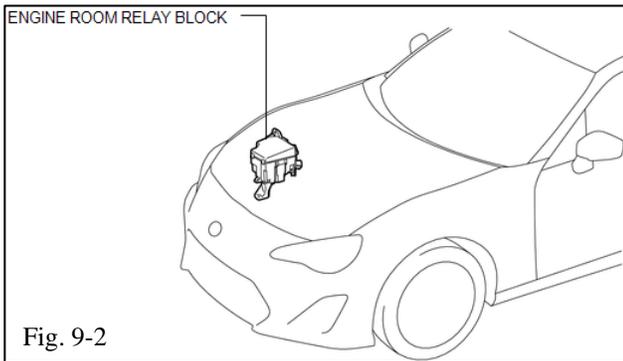
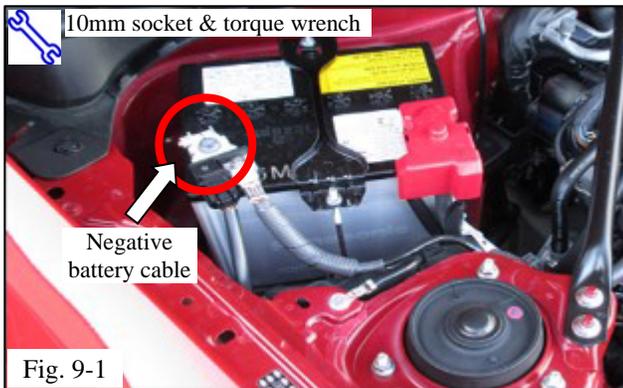
- (1) Position the negative cable at the original factory position.

**+ CAUTION: Do not touch the positive terminal with any tool when replacing the cable.**

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

**S Torque: 5.4 N-m (48 lbf-in)**

- (d) Temporarily Install the DC-Cut fuse in the Engine Room main Relay Box (Fig. 9-2)
- (e) Remove the DC-Cut Fuse after function testing (Section 10 through 13) is complete



**10. Confirm that the Harman Base Audio is Connected and Functional.**

- (a) Turn the vehicle ignition switch to the ACC position.
- (b) After the warning screen, press the “MEDIA” button (Fig. 10-1).
- (c) The Media source selection screen should be displayed. The sources FM Radio, AM Radio should be enabled and selectable.
- (d) Press the HOME Hard Key
- (e) The Home screen should be displayed again.



**11. Check the USB Connection and Antenna Connection**

- (a) With the ignition switch still in ACC position; connect the USB flash drive media to the vehicle’s USB jack (Fig. 11-1).



- (b) Press the “MEDIA” button to see the source list screen (Fig. 11-2).



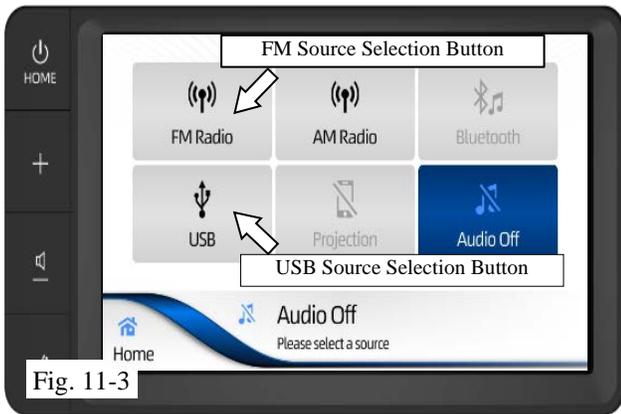


Fig. 11-3

- (c) Confirm that the USB source can be selected and select the USB source (Fig. 11-3)
- (d) Confirm that a song plays.
- (e) Remove the flash drive from the USB jack.
- (f) Press the HOME Hark Key to go to home screen.
- (g) Press the “MEDIA” button.
- (h) The source list screen would be displayed with FM Radio, AM Radio, USB sources enabled.
- (i) Select the FM Radio as the source.
- (j) Confirm that the FM Radio source is now selected.
- (k) Press and hold the SEEK/TRACK “up” button for 3 seconds and radio will start searching for the next station (Fig. 11-4).
- (l) Confirm that the radio seek stops at next available station and the audio is available.



Fig. 11-4

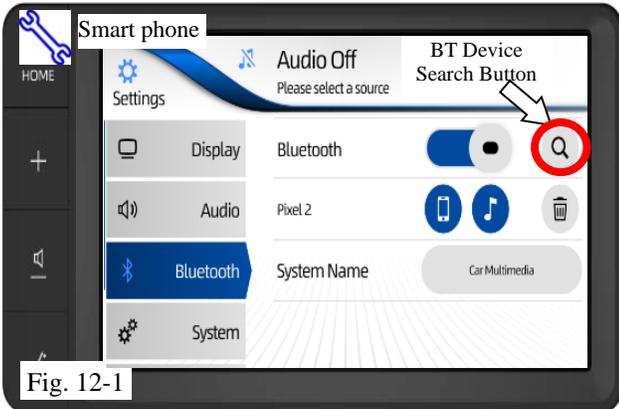


Fig. 12-1

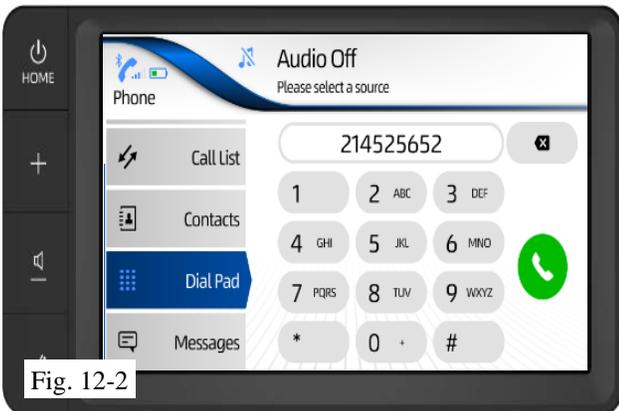


Fig. 12-2

|| 12. [If BT Connection Available] Check the Microphone.

- (a) With the ignition switch still in ACC position, connect a Bluetooth Phone (Fig. 12-1).
- (b) Press the BT Device Search button and the list of the devices will be displayed.
- (c) Select the device to be connected.
- (d) Make an outgoing Call (Fig. 12-2).
- (e) Check if the Phone call audio is audible on the other phone.
- (f) Disconnect the Phone Call.

**13. Change the Background Color to Red.**

(a) Select settings button on home screen (Fig. 13-1).



Fig. 13-1

(b) Once in settings screen select Display menu and look for color submenu. Then select RED option (Fig. 13-2).



Fig. 13-2

(c) Confirm background color is red as shown in (Fig. 13-3).



Fig. 13-3

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

Check:	Look For:
<p><u>Accessory Function Checks</u></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Turn on radio</li> <li><input type="checkbox"/> Antenna</li> <li><input type="checkbox"/> Fader</li> <li><input type="checkbox"/> Balance</li> <li><input type="checkbox"/> USB</li> <li><input type="checkbox"/> Bluetooth [If Available]</li> </ul>	<ul style="list-style-type: none"> <li>Radio functions properly</li> <li>Reception of AM/FM stations</li> <li>Functioning shift from front/rear speakers</li> <li>Functioning shift from left/right speakers</li> <li>Music is played from USB</li> <li>A phone can be paired over BT</li> </ul>
<p><u>Vehicle Function Checks</u></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Steering wheel audio controls</li> </ul>	<ul style="list-style-type: none"> <li>Controls function properly</li> </ul>
<p><u>Vehicle Appearance Check</u></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure no damage (including scuffs and scratches) was caused during the installation process.</li> <li>Ensure following parts removed during this procedure have been installed back: <ul style="list-style-type: none"> <li>• Bolts</li> <li>• Brackets</li> <li>• Trim bezel</li> <li>• Trunk carpet</li> <li>• USB jack</li> </ul> </li> <li>(For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</li> </ul>