

Kit Contents: OEM Audio Plus Reference/System Series

Item 1	Item 2 *	Item 3 *	Item 4	Item 5
				
Item 6	Item 7	Item 8	Item 9	Item 10
				

*** Item applies to Reference 500 ONLY**

Hardware Content		
Item	Quantity	Description
1	2	1" Soft Dome Tweeter with Neodymium Magnet
2 *	2	6"x9" Carbon Fiber Woofer with Neodymium Magnet
3 *	2	6.5" Carbon Fiber Coaxial Rear Speaker
4	1	8" Carbon Fiber Subwoofer in Custom Fit Sealed Enclosure
5	1	DSP Amplifier
6	1	Quick-Sync Wiring Harness
7	1	Subwoofer Umbilical Cable
8	1	Fuse Holder Assembly
9	1	30A Fuse
10	1	Corrugated Loom
11	10	Cable Ties (Not pictured)

Recommended Tools	
Personal & Vehicle Protection	Notes
Safety Goggles	
Protective Blanket	
Safety Gloves	
Special Tools	Notes
Panel Clip Removal	SST # 00002-06001-01
Socket Wrench	
Sockets	10mm, 14mm
Socket Extension	6"
Screwdriver	#2 Phillips
Side Cutters	
Wire Strippers	Needed for 12g butt Sealed-Crimp-Solder Connectors
Heat Gun	Needed for 12g
Installation Tools	Notes
Masking Tape	
Foam Tape	
Cable Ties	10 piece bundle included
Special Chemicals	Notes
Lubricant	For Pulling Wire Through Grommet
Silicone Sealant	For Sealing Grommet



Legend	
	STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.
	TOOLS & EQUIPMENT: Used in Figures to call out the specific tools and equipment recommended for the process.

Table of Contents

I. Preparation.....	1-2
1. Table of Contents.....	2
II. Procedure	
1. Vehicle Preparation.....	3
2. Front Door Speaker Installation.....	3-5
3. Rear Door Speaker Installation.....	6-8
4. Front Dash Tweeter Installation.....	8-10
5. Amplifier Installation.....	10
6. Quick-Sync Wiring Harness (Preparation).....	11-14
7. Panel Modification.....	14-15
8. Quick-Sync Wiring Harness Installation.....	15-20
9. Subwoofer Installation.....	21
10. Radio Removal.....	21-22
11. Quick-Sync Wiring Harness Installation (continued).....	22-24
12. Power Wire Installation.....	24-28

Accessory Installation Practice (read before installation)

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 cover such items as:

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

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

Revisions and other installation assets

OEM Audio Plus is committed to providing components and instructions designed for seamless integration. Please visit oemaudioplus.com for the most up to date installation related documents and media.

Important Warranty Information

Failure to completely and properly Warranty Registration may result in possible reduction or complete denial of future warranty claims. Complete yours today at oemaudioplus.com/registration or call: 855 OEM ODIO for more details and alternative methods of system registration.

1. Vehicle Preparation



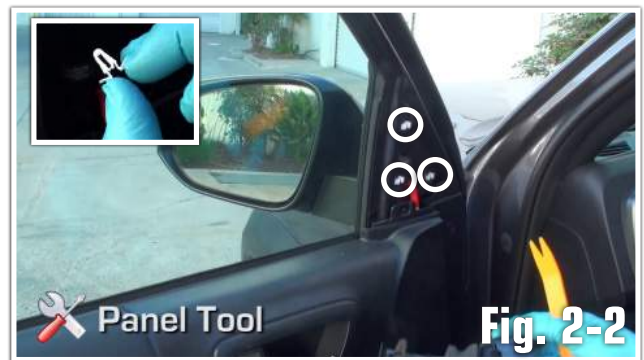
- a. Apply parking brake.
- b. Open the trunk and hood of the vehicle.
- c. Disconnect the negative (-) battery cable.
- d. Prepare a protective surface to place all vehicle components on.



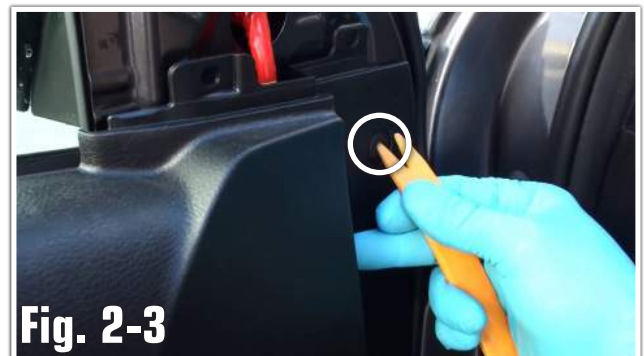
****Section 2 is for Reference 500 Only****

2. Front Door Speaker Installation

- a. Remove Door Panels
 1. Remove A Pillar by pulling straight and away from door **(Fig. 2-1)**. Disengage any clips that remain in the door and return to the A Pillar panel. **(Fig. 2-2)**



2. Disengage door locking tab. **(Fig. 2-3)**



3. Use a panel tool to remove the window/door lock control panel. **Note:** Insert tool between the front edge of the panel of the trim to remove. **(Fig. 2-4)**



4. Disconnect window/door lock control connectors from the panel. Use of a pick tool or precision screwdriver is needed to release connector. **(Fig. 2-5)**



5. Use a pick tool to remove the carpet cover in the door grab handle. **(Fig. 2-6)**

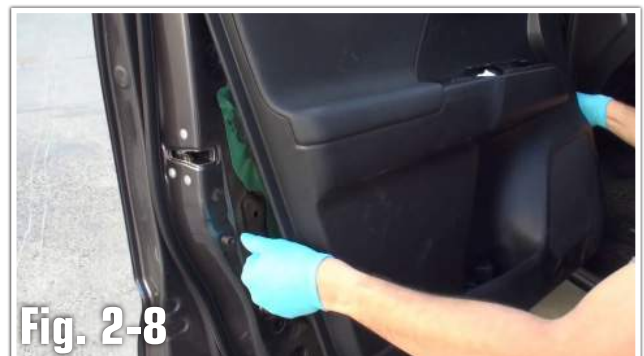


6. Remove #2 Phillips screw behind the door latch.

7. Use a panel tool to remove the cover behind the interior door latch and remove the #2 Phillips screw. **(Fig. 2-7)**



8. Use panel tool to disengage the clips behind the door panel one at a time. Start at the bottom, then the sides, and finish at the top. Use gentle force to remove door panel. **(Fig. 2-8)**



9. Remove door latch assembly from the door panel by unsnapping and lifting the door latch connectors. **Note:** Connectors need to be reassembled in the same orientation – white on top, green on bottom. **(Fig. 2-9)**



10. Set door panel aside.

b. Install 6x9 speaker

1. Disconnect the 6x9 factory speaker connector. **(Fig. 2-10)**



2. Remove the four (4) 10mm bolts holding the factory 6x9 speaker in place and remove speaker. **(Fig. 2-11)**



3. Mount the 6x9 OEM Audio Plus speaker by using the four (4) 10mm bolts and re-install 6x9 speaker connector. **(Fig. 2-12)**



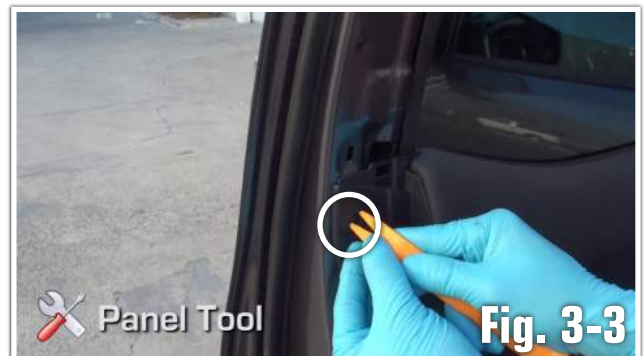
4. Reassemble the door in reverse order, taking time to ensure all clips are engaged.

5. Repeat this process for the other side of the vehicle.

****Section 3 is for Reference 500 Only****

3. Rear Door Speaker Installation

- a. Remove door panels
 1. Use a panel tool to remove the cover behind the interior door latch. **(Fig. 3-1)**
 2. Remove #2 Phillips screw behind the door latch.
 3. Lift the carpet cover from the grab handle cavity and remove the #2 Phillips screw **(Fig. 3-2)**.
 4. Disengage door locking tab. **(Fig. 3-3)**
 5. Use a panel tool to remove the window door lock control panel. **(Fig. 3-4)**



6. Disconnect window control connectors from the panel. **(Fig. 3-5)**



7. Remove door pillar by prying away from door assembly. Disengage any clips that remain in the door and return to panel. **(Fig. 3-6)**



8. Use gentle force to remove door panel. Start at the bottom, then the sides and finish at the top. **(Fig. 3-7)**



b. Install 6.5" OEM Audio Plus speaker

1. Disconnect the 6.5" factory speaker connector.

2. Remove the three (3) 10mm bolts holding the factory speaker in place and remove speaker. **(Fig. 3-8)**



3. Mount the 6.5" OEM Audio Plus coaxial speaker by using the three (3) 10mm bolts and re-install speaker connector. **(Fig. 3-9)**

c. Reassemble door in reverse order - taking time to ensure all clips are engaged. Failure to securely reinstall door panel may result in rattles.

d. Repeat process for the other side of the vehicle.

4. Front Dash Tweeter Installation

a. Remove the A Pillar Interior Trim Panel

1. Open the plastic cover. **(Fig. 4-1)**



2. Remove the 10mm bolt. **(Fig. 4-2)**



3. Pull panel out of position and away. **(Fig. 4-3)**



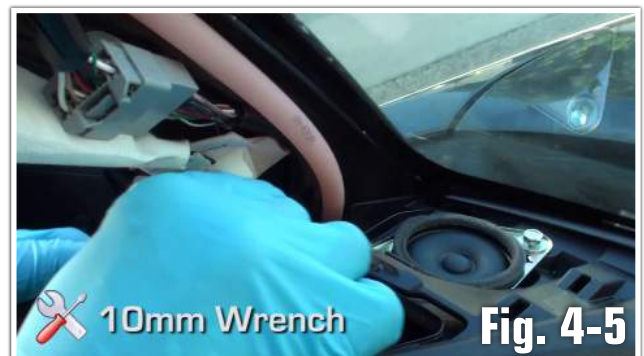
b. Remove Factory Speaker and Install OEM Audio Plus 1" Soft Dome Tweeter

1. Using a pick or panel tool, carefully lift the dash speaker grill up and out of position.

(Fig. 4-4)



2. Remove the two (2) 10mm holding the factory speaker in place and remove the speaker. **(Fig. 4-5)**



3. Disconnect the factory dash speaker. **(Fig. 4-6)**



4. Position the OEM Audio Plus 1" Soft Dome Tweeter in position and reinstall the dash speaker connector. **(Fig. 4-7)**

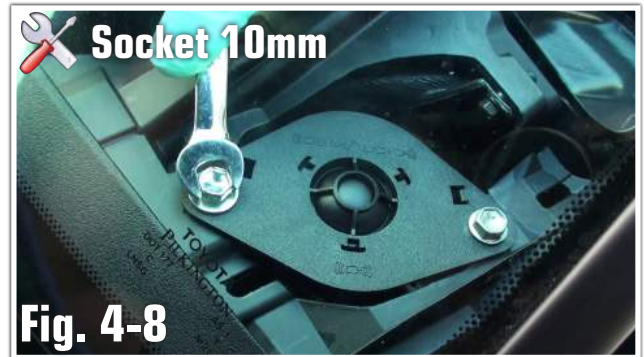


5. Mount using the original 10mm bolts.

(Fig. 4-8)

6. Reinstall the dash speaker grill, A Pillar Interior Trim Panel, and the 10mm bolt.

7. Repeat process for the other side of the vehicle.



5. Amplifier Installation

a. Remove seats

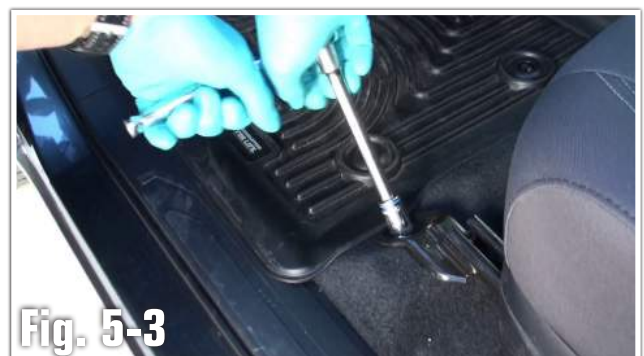
1. Slide the seats forward and remove the trim panels covering the seat bolts on the rear side of the seats. Locate the slots in the trim covers and pry them off using the forked end of your trim tool. **(Fig. 5-1)**



2. Using a 14mm socket with a 6" extension, remove the two (2) rear 14mm seat bolts. **(Fig. 5-2)**



3. Slide seats to the rear and remove the two (2) front 14mm seat bolts. **(Fig. 5-3)**



6. Quick-Sync Wiring Harness Installation (Preparation)

- a. Remove the drivers side front threshold. **(Fig. 6-1)**



- b. Remove the driver's side kick panel by unscrewing the black locking tab and gently pulling the panel away. **(Fig. 6-2)**



- c. Remove the drivers side rear threshold by pulling in an upward motion. **(Fig. 6-3)**



- d. Remove the lower seatbelt mounting bolt cover. **(Fig. 6-4)**



- e. Remove the lower seatbelt mounting bolt (14mm).
(Fig. 6-5)



- e. Loosen seatbelt trim weather-stripping by hand and remove carefully in an outward direction on both the front and rear passenger side thresholds.
(Fig. 6-6)



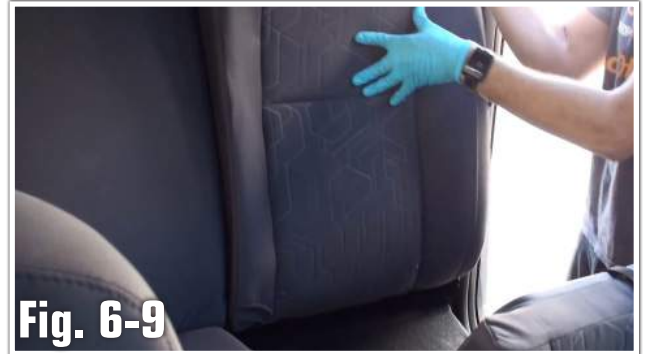
- f. Disengage drivers side seat belt trim panel by pulling directly towards you from the lower portion of the panel and working your way up disengage clips behind. **(Fig. 6-7)**



- g. Check for red snaps that may not have come off with the panel. Re-insert to panel if applicable.
(Fig. 6-8)



h. Fold rear drivers side seat forward. **(Fig. 6-9)**



i. Remove hardware trim covers by pulling in an upward direction. **(Fig. 6-10)**



j. Using a 14mm socket, remove the two (2) 14mm seat bolts securing the seat back rest in position. Remove seat back rest. **(Fig. 6-11)**



k. Using a 10mm socket, remove the three (3) 10mm bolts securing the rear storage panel from behind the drivers side rear seat. **(Fig. 6-12)**



l. Hold the panel and disengage the front and top edge snaps one at a time while simultaneously pulling the panel towards you. Remove panel. **(6-13)**



m. Remove the weather-stripping on the rear driver side door to access the side/rear panel. **(Fig. 6-14)**



n. Apply pressure to the panel pushing towards the passenger side to disengage the locking clips. The bottom-locking clip of the panel may require a panel tool to disengage. Position the tool between the tab and the frame of the vehicle and pry open. **(Fig. 6-15)**



7. Panel Modification

a. Mark the connector location on the driver's side of the storage area panel. **(Fig. 7-1)**

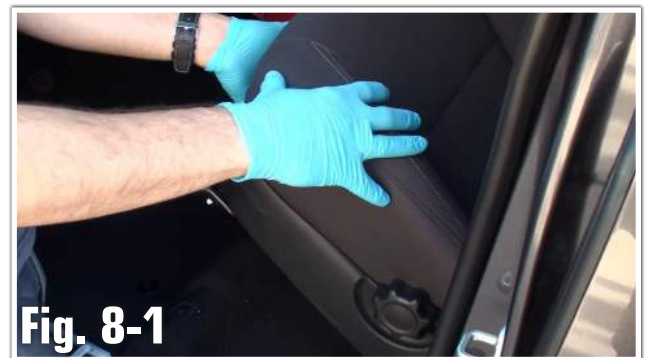


- b. A 1" Hole Saw can be used for a large enough opening to allow the subwoofer connectors to pass through without altering the exterior appearance of the panel. **(Fig. 7-2, 7-3)**



8. Quick-Sync Wiring Harness Installation

- a. Tilt back the driver's seat towards the rear of the vehicle. **(Fig. 8-1)**



- b. Unfasten white plastic carpet clips along the threshold area and lift carpet edge to expose cable route. **(Fig. 8-2)**



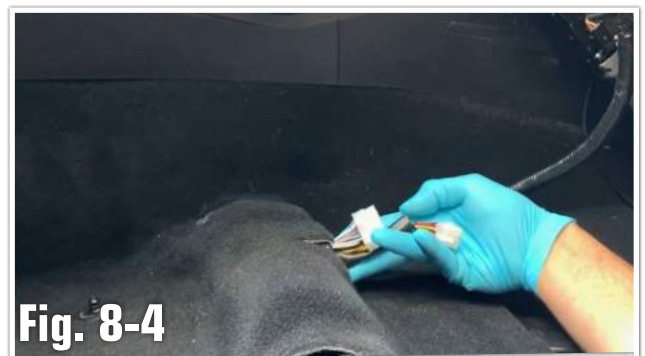
c. Run the Quick-Sync Harness amplifier connectors and ground underneath the carpet opening from the front driver's side threshold to the opening used by the factory wiring that connects under the seat.

(Fig. 8-3)



d. Leave about 6-10 inches of slack for the 20-pin and 8-pin connectors from the carpet opening.

(Fig. 8-4)



e. Locate the factory ground underneath the carpet and remove the 10mm ground bolt. **(Fig. 8-5)**



f. Install the harness ground together with the factory ground and reinstall the 10mm bolt. Make sure the harness ground rests on top of the factory ground bolt. **(Fig. 8-6)**



g. You will be left with the remote cable, the 20-pin connector of the Quick-Sync Wiring Harness and the 8-pin connector of the Subwoofer Umbilical underneath the driver's side seat. **(Fig. 8-7)**



h. Plug the remote cable and 20-pin from the Quick-Sync Harness into their designated receptacles on the DSP Amplifier. The 20-p connector inserts into the receptacle towards the front of the vehicle.

(Fig. 8-8) Note: You want to make sure the Quick-Sync Wiring Harness has enough slack so that the cable is in a rested position even when the driver's seat is pushed all the way back.



i. Connecting the Subwoofer :

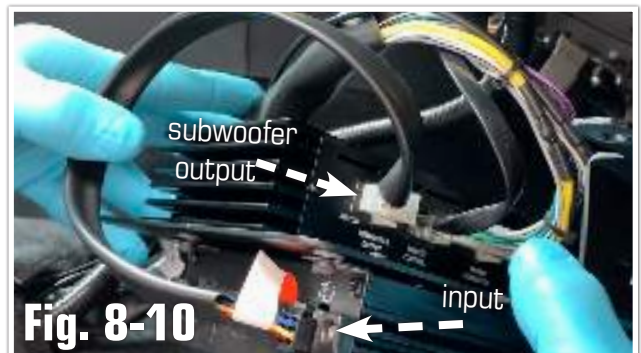
1. **(For SINGLE Subwoofer)**

Connect the 8-pin connector of the Subwoofer Umbilical (C09) into the SUBWOOFER OUTPUT receptacle on the Amplifier. **(Fig 8-9)**



1. **(For SP/DUAL Subwoofer)**

Connect the SPU-Input Connector (C12) from the SUBWOOFER OUTPUT receptical on the DSP Amplifier, to the INPUT receptical on the SUB Amplifier. **(Fig. 8-10)**



2. Connect the remote cable into the REMOTE CONTROL receptacle on the Amplifier.

3. (FOR THE SP UPGRADE): Connect the 4-to-2 series adaptor to the SPEAKER receptacle, and connect the Subwoofer Umbilical (C14). **(Fig. 8-11)**



3. (FOR THE DUAL PLUGIN): Connect the Dual Subwoofer Umbilical (C16) directly into the SPEAKER receptacle.

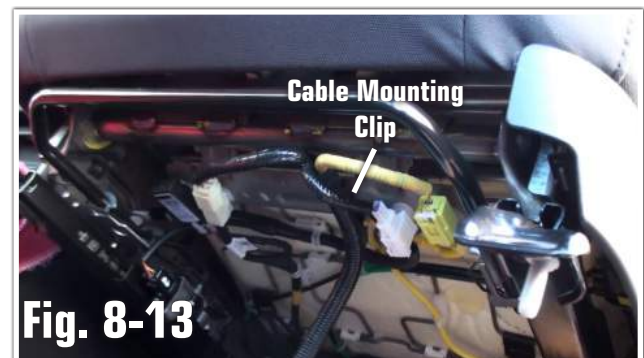
4. Connect Power & Ground (Green Connector) to the designated Green receptacle on the SUB Amplifier.

(Fig. 8-12)

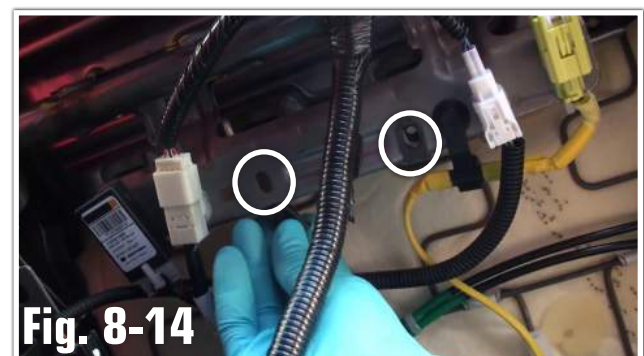


j. Mount amplifier

2. Remove the center cable mounting clip. This bundle will be repositioned and housed on the OEM Audio Plus Amplifier Assembly once mounted. **(Fig. 8-13)**



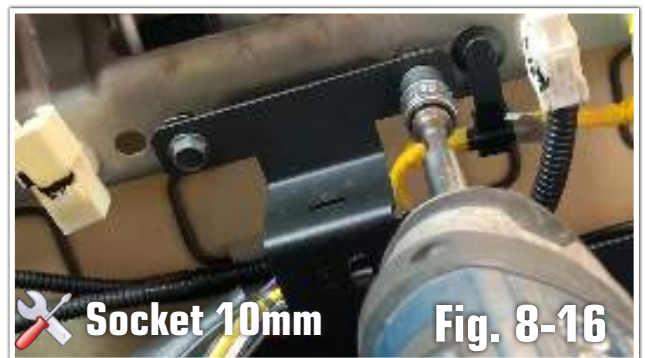
3. Install and position the two (2) 1.0x19.5mm speed clips so that it aligns with the two inner center holes of the underseat frame. **(Fig. 8-14)**



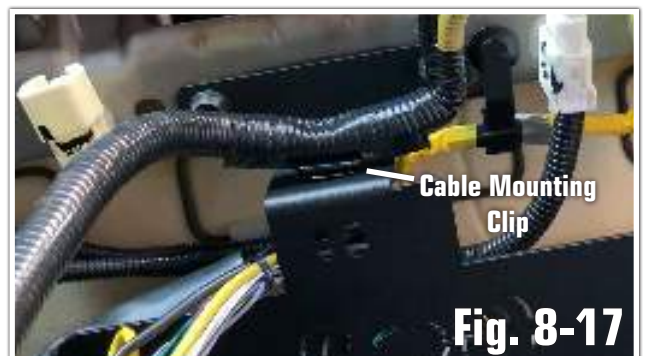
4. Position amplifier assembly so that the rear bracket hooks on rear most spring and front bracket arm rests on the under seat front frame. The amplifier connector receptacles will face the passenger side of the vehicle. **(Fig. 8-15)**



5. Use the provided 10mm bolts to secure the amplifier bracket assembly to the underseat frame. **(Fig. 8-16)**



6. Attach the cable mounting clip to the open slot on the amplifier bracket assembly. **(Fig. 8-17)**



k. Route the Quick-Sync Wiring Harness radio connectors and power wire towards the driver's side kick panel area. Leave the wires in the kick panel floor area for the time being. **(Fig. 8-18)**



l. Run the length of the subwoofer umbilical cable alongside the driver's side threshold towards the rear of the truck. Disengage the white plastic clips along the route. Use cable ties as necessary.

(Fig. 8-19)



m. Reinstall the rear driver's side corner panel taking time to ensure that all connectors are engaged properly. **(Fig. 8-20)**



n. Position the rear storage panel back in the vehicle running the sub connector through with 1 or 2 inches of slack once the panel is in a rested position. **(Fig. 8-21)**



o. Reinstall rear storage panel ensuring all clips are fully engaged and then use mounting hardware. **(Fig. 8-21)**



9. Subwoofer Installation

- a. Connect subwoofer umbilical cables to the OEM Audio Plus subwoofer system. **(Fig. 9-1)**
- b. Slide subenclosure into panel cavity until it rests in place. **(Fig. 9-2)**
- c. Reinstall seat back rest and trim covers.
- d. Reinstall rear weather stripping, driver's side seat belt trim, and rear threshold panel.
- e. Return seat back in place and confirm that the seat bolt holes are lining up.
- f. Tighten the seat bolts by hand at first to ensure proper alignment. If there is too much resistance, start over again and double check the alignment.
- g. Finish tightening all four (4) seat bolts using your 14mm socket and ratchet.



Fig. 9-1



Fig. 9-2

10. Radio removal

- a. Remove radio trim panel by inserting plastic trim tool to loosen the bottom edge and carefully pry away by hand. **(Fig. 10-1)**
- b. Using a 10mm socket wrench, remove the four (4) bolts holding the radio in place. **(Fig. 10-2)**



Fig. 10-1



Fig. 10-2

c. Lay down protective blanket over transmission area. **(Fig. 10-3)**



d. Disconnect connectors and antenna lead. **(Fig. 10-4)**



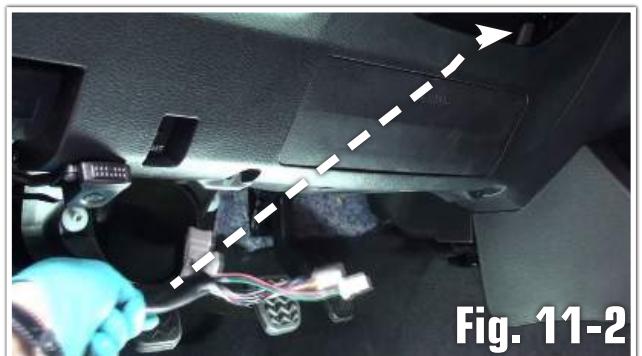
e. Remove radio and store.

11. Quick-Sync Wiring Harness Continued

a. Route the Quick-Sync Wiring Harness radio connectors and power wire towards the driver's side kick panel area. Use cable ties as necessary. **(Fig. 11-1)**



b. Run radio side of harness above the accelerator pedal and steering column towards radio cavity. Run neatly and out of the way. Use cable ties as necessary. **(Fig. 11-2)**



c. Route the harness towards the radio cavity until connectors are visible. **(Fig. 11-3)**



d. Connect the factory 6-pin male and 10-pin male connectors into the designated receptacles on the Quick-Sync Harness. **(Fig. 11-4)**



e. Pull power wire through the radio cavity and run toward the passenger side kick panel area. **(Fig. 11-5)**



f. Fish above the air conditioning unit to the factory grommet location. **(Fig. 11-6, 11-7)**





g. Reinstall all connectors that were originally plugged into the back of your radio, and your Quick-Sync Harness 6-pin and 10-pin connectors directly into your radio. **(Fig. 11-8)**

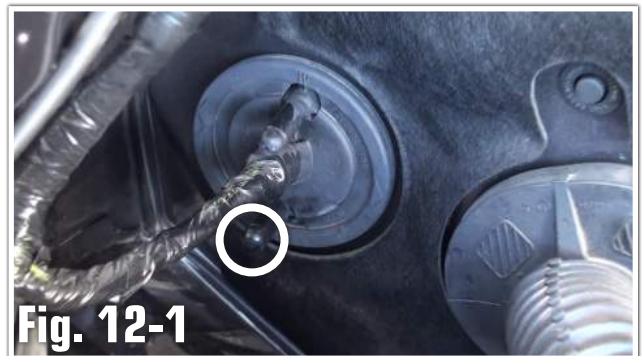


h. Re-install radio and trim panel. **(Fig. 11-9)**



12. Power Wire Installation

a. Under the hood on the passenger side of the vehicle, locate the grommet for the main factory wiring harness on the driver side of the firewall directly below factory wiring. **(Fig. 12-1)**



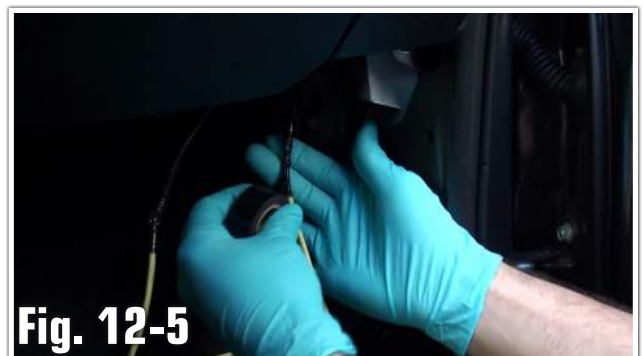
b. Identify unused nipple and slice the tip off to create an opening for the power wire. **(Fig. 12-2)**



c. For best results, insert a 10 inch wire or cable tie through the grommet from under the hood and attach power wire from the kick panel area. **(Fig. 12-3, 12-4)**



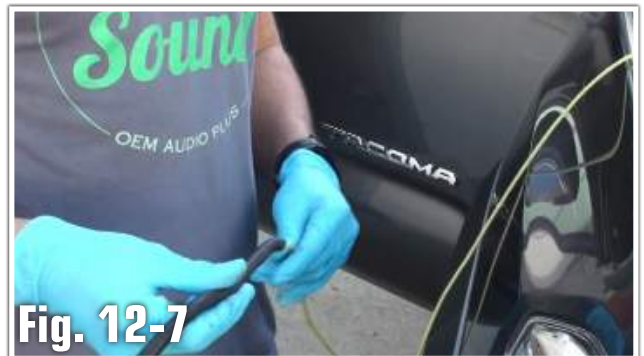
d. Attach power wire from the to the wire or cable tie from the kick panel area. **(Fig. 12-5)**



d. Run the length of the wire through the grommet. You'll want just enough length to reach your battery. Cut any additional slack. **(Fig. 12-6)**



e. Install supplied high-temp corrugated split loom to cover the power wires and insulate against extreme temperature under the hood. **(Fig. 12-7)**



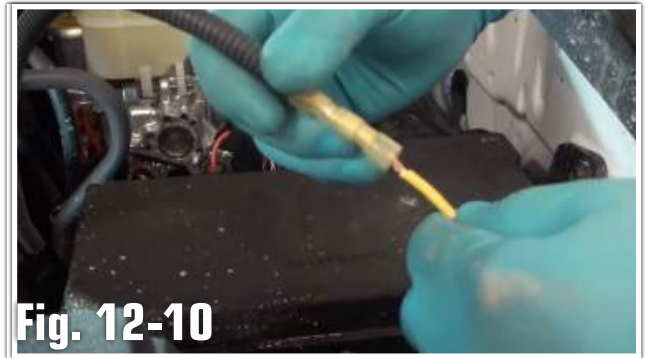
f. Run loomed power wire toward the battery. Secure using cable ties as necessary. **(Fig. 12-8)**



h. Use a wire stripper to strip 3/8" off the end of each power wire. **(Fig. 12-9)**



- i. Connect the power wire to the fuse holder by inserting the 10-gauge stripped power wire into the yellow butt connector and crimp. **(Fig. 12-10)**



- j. Crimp the yellow butt connector. **(Fig. 12-11)**



- k. Apply heat to activate the solder and heat shrink insulator for the best connection possible. **(Fig. 12-12)**



- a. Remove the 12mm bolt from the battery's positive terminal. **(Fig. 12-13)**



- b. Install the ring terminal of the fuse holder lead. **(Fig. 12-14)**



- c. Re-install the 12mm bolt and tighten. **Note:** Do not install fuse at this time. **(Fig. 12-15)**



- d. Install the fuse. **(Fig. 12-16)**
- e. Reconnect the battery and close the hood.



**13. This concludes the OEM Audio Plus REFERENCE 500
Installation for the TOYOTA TACOMA DOUBLE CAB.**

- a. Start your engine.
b. Turn on your radio.
c. Enjoy!