

Kit Contents: OEM Audio Plus System 450Q

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

Hardware Content		
Item	Quantity	Description
1	2	1" Soft Dome Tweeter with Neodymium Magnet
2	1	8" Carbon Fiber Subwoofer in Custom Fit Sealed Enclosure
3	1	DSP Amplifier
4	1	Quick-Sync Wiring Harness
5	1	Hardware Packet 1
6	1	Hardware Packet 2
7	1	Fuse Holder Assembly
8	1	30A Fuse
9	1	Corrugated Loom
10	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.....	3-6
2. Subwoofer Umbilical Installation.....	7-8
3. Quick-Sync Wiring Harness.....	8
4. Amplifier Assembly.....	9-10
5. Quick-Sync Wiring Harness Install (continued)	10-11
6. Radio Removal.....	12-14
7. Quick-Sync Wiring Harness Install (Part 3).....	15-16
8. Power Wire Installation.....	17-20
9. Subwoofer Installation.....	20-23
10. Tweeter Installation.....	23-24

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.

I. Vehicle Preparation

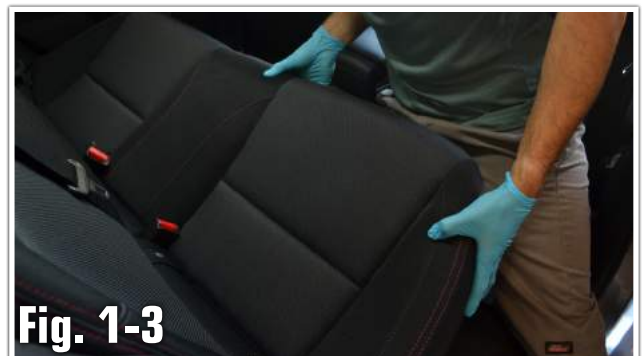
- a. Apply parking brake.
- b. Open the trunk and hood of the vehicle.
- c. Disconnect the negative (-) battery cable.
- d. Remove trunk cargo mat and/or floor board, and foam inserts. **(Fig. 1-1)**



- e. Remove Rear Bottom Seat Cushion.
 1. From the Passengers side, locate the locking mechanism under the cushion. **(Fig. 1-2)**
 2. Repeat for other side of the vehicle.



3. Pull straight up from center of cushion to disengage. **(Fig. 1-3)**
 4. Remove rear seat cushion from the vehicle.



- f. Disengage both ends of the rear Passenger side threshold panel by pulling straight up to remove. (Panel tool may be needed to remove the white snap). **(Fig. 1-4)**



- g. Remove the front Passenger side threshold panel by pulling straight up to remove. **(Fig. 1-5)**



- h. Loosen Passenger Seat

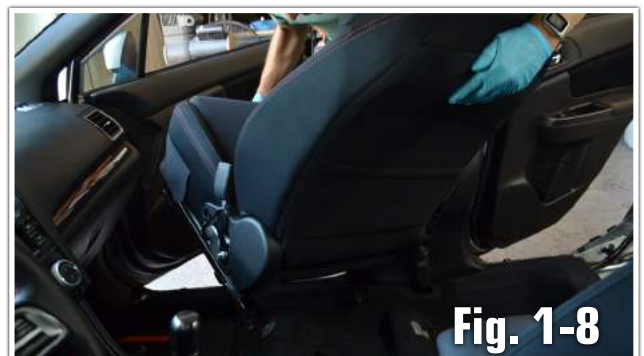
1. Using a 14mm socket, remove the four 14mm seat bolts. **(Fig. 1-6)**



2. Disconnect the two airbag connectors underneath the seat (Ensure your Negative Battery Terminal is disconnected before performing this step). **(Fig. 1-7)**



3. Tilt the seats towards the rear of the car or remove completely for access to amplifier assembly mounting location. Take care not to scratch interior panels if removing seat assembly. **(Fig. 1-8)**



i. Remove Seat belt Trim

1. Loosen weather-stripping by hand and remove carefully in an outward direction on both the front and rear passenger side thresholds. **(Fig. 1-9)**



2. Remove the Passenger side seat belt trim panel by pulling directly towards you from the lower portion of the panel. Once lower position of the Seat Belt trim is loosened, disengage trim by prying gently with hands. **(Fig. 1-10)**



3. Check for snaps that may not have came off with the panel. Re-insert to panel if applicable. **(Fig. 1-11)**



j. Removing the Passenger side kick panel

1. Apply pressure to kick panel and unscrew the snap counterclockwise. **(Fig. 1-12)**



2. Carefully pull the kick panel away from its position towards the drivers side (Two small snaps secure it). Check for white snaps that may not have came off with the kick panel. Re-insert into panel. **(Fig. 1-13)**



k. Lift threshold carpet by disengaging the black plastic clips in the front and rear Passenger side threshold area. **(Fig. 1-14)**



l. Fold down rear-seat back rest.

m. Disengage the three (3) clips holding the backrest carpet threshold in place. **(Fig. 1-15)**



n. Lift the rear-seat backrest carpet locations in the cargo area exposing the channel between the rear seat and the cargo area. **(Fig. 1-16)**



II. Subwoofer Umbilical Installation

a. From the Passenger side of the vehicle, run the subwoofer cables from Passenger side front threshold area to the trunk area. Run cable under the rear seat belt bolt and towards the passenger side rear threshold area. **(Fig. 2-1)**



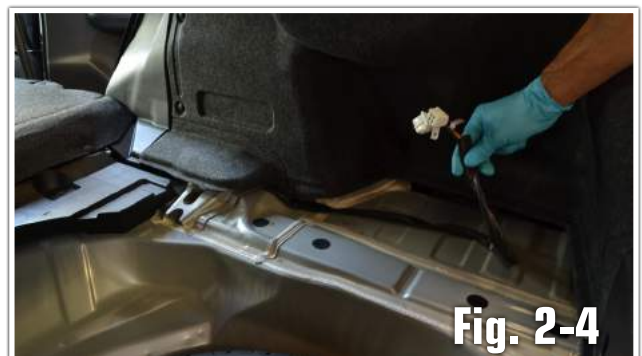
b. Run cable under the rear seat belt bolt and towards the passenger side rear threshold area. **(Fig. 2-2)**



c. Run cable under the passenger side rear threshold panel to the trunk area. **(Fig. 2-3)**



d. Provide 12" of cable slack in the trunk near the passenger side wheel well to accommodate routing to the subwoofer. **(Fig. 2-4)**



e. Reinstall rear seat / cargo area carpet covers by fastening the locking clips. **(Fig. 2-5)**

f. Reinstall the Passenger side seat belt trim, Weather stripping, rear threshold panel and rear seat cushion.



III. Quick-Sync Wiring Harness

a. Run the Quick-Sync harness' amplifier connectors and ground under the carpet opening from the front passenger side threshold to the opening used by the factory wiring that connects under the seat. Leave about 6-10 inches of slack for the white and gray connectors from the carpet opening. **(Fig. 3-1)**



b. Locate the factory ground location located underneath the carpet between the two vents. **(Fig. 3-2)**



c. Using the factory ground located underneath the carpet between the 2 vents, remove the 10mm ground bolt and install the harness ground together with the factory ground. Re-install the 10mm bolt.
Note: Make sure harness ground terminal rests on top of the factory ground terminal. **(Fig. 3-3)**



IV. Amplifier Assembly

a. Plug the White and Gray 22-pin connectors from the Quick-Sync Harness into their designated receptacles on the DSP Amplifier. White connector inserts into the receptacle on the Passenger side of the vehicle. **(Fig. 4-1)**

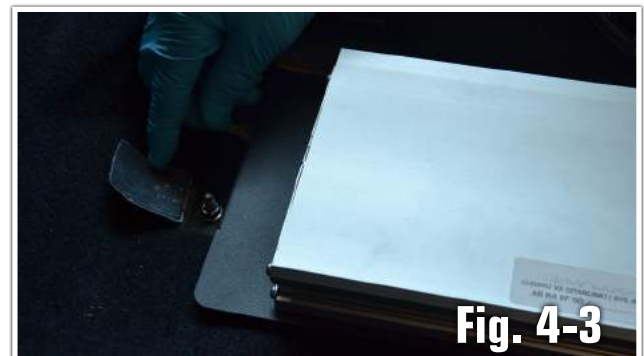


b. Mounting the Amplifier Assembly

1. Position Amplifier Assembly in Passenger side front seat location on the factory mounting bolts beneath the carpet slits located on the floor. **(Fig. 4-2)**



3. Thread the provided 10mm nut to secure the amplifier assembly on both sides. Tighten by hand initially. If binding occurs remove the bolt and repeats steps. **(Fig. 4-3)**



4. Use socket wrench to tighten.

c. Ensure the factory connectors are accessible for reinstallation of passenger front seat.

d. Very carefully return the passenger seat back to its original position.

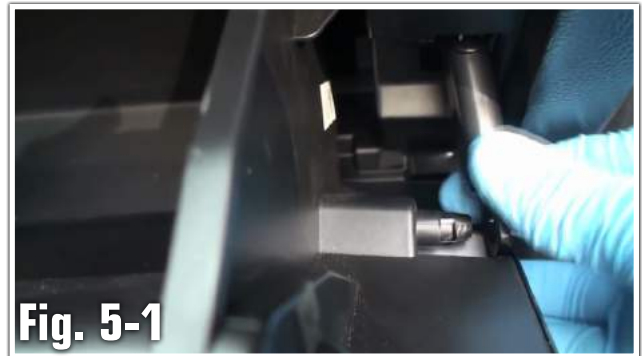
e. Reconnect the two connectors underneath the seat. **(Fig. 4-4)**



f. After returning the seat back in place, confirm that the seat bolt holes are lining up.

g. Tighten the seat bolts by hand at first to ensure proper alignment. If there is too much resistance, start over and double check the alignment.

h. Finish tightening all four seat bolts using your 14mm socket and ratchet.



V. Quick Sync Wiring Harness Continued

a. Open glove box and disengage the glove box damper on the right side. **(Fig. 5-1)**

b. Squeeze sides of glove box and pull down and out in one motion to remove. **(Fig. 5-2)**



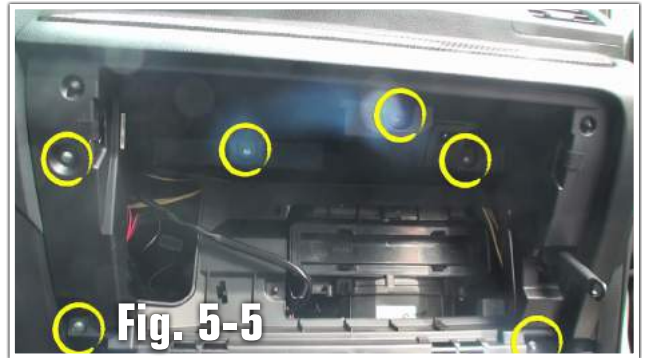
c. Remove the trim panel above the glove box using a panel tool. **(Fig. 5-3)**



d. Remove the single #2 Phillips screw. **(Fig. 5-4)**



e. Using a #2 Phillips Remove the six (6) screws holding the cabin filter cover in place. **(Fig. 5-5)**



f. Use a pick tool to disengage the brown and black locking tabs **(Fig. 5-6)**



g. Disengage the glove box light assembly. Use a panel tool to remove the assembly, then disengage connector. **(Fig. 5-7)**



h. Once loosened at all mounting points disengage the panel by pulling downward and then away from the dash.

i. Use a panel tool to remove the dash side garnish panel. **(Fig. 5-8)**



VI. Radio Removal

For 2015 Models

1. Lay down protective blanket over climate controls and transmission area.
2. Remove radio trim panel by carefully prying away by hand. **(Fig. 6-1)**
3. Disconnect the three (3) connectors connected to the back side of this panel – Two connectors on top and one on bottom for the climate controls. Use of a pick tool can make disengaging these connectors easier. **(Fig. 6-2)**
4. Once loosened remove the Radio Bezel completely from the vehicle. **(Fig. 6-3)**
5. Using a #2 Phillips Screw, remove the four (4) lower screws from the radio lower support bracket. **(Fig. 6-4)** Set bracket aside after removal.



6. Remove the two (2) top 10mm screws holding the radio in place. **(Fig. 6-5)**



For 2016 & Newer

1. Locate and remove the 10mm hex bolt located on the right side of the radio. This bolt is accessible via the glovebox cavity. **(Fig. 6-6)**



2. Locate and remove the 10mm hex bolt located on the left side of the radio. This bolt is accessible by raising the steering wheel **(Fig. 6-7)**



3. Use a panel tool to remove the top accessory panel above the radio. **(Fig. 6-8)**



4. Pull out the top accessory panel and remove the white and grey connectors. **(Fig. 6-9)**



5. Remove the two (2) top 10mm screws holding the radio in place. **(Fig. 6-10)**



6. Loosen the factory tape binding the radio connector cables in a bunch. Set tape aside for reapplication after radio reinstallation. **(Fig. 6-11)**



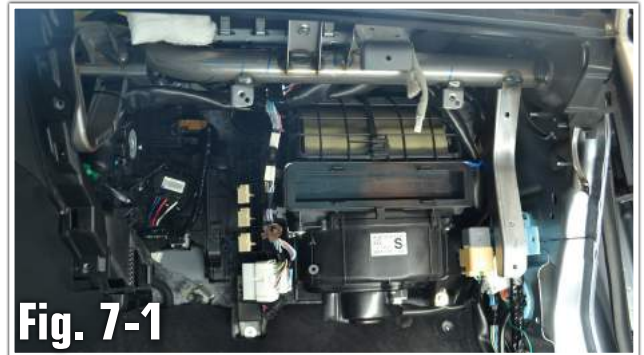
7. Disconnect connectors and antenna lead. **(Fig. 6-12)**

8. Remove radio and store.



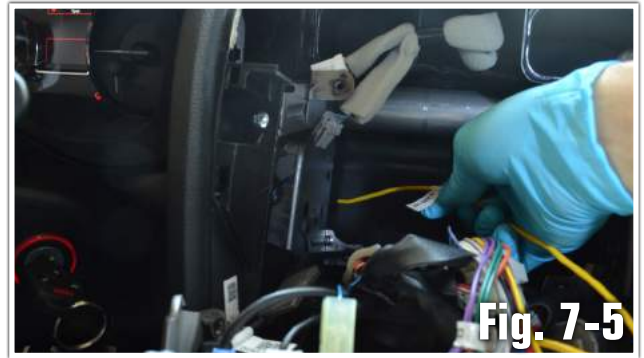
VII. Quick-Sync Wiring (Pt. 3)

- a. Continue routing the other side of the harness along the factory wiring towards the passenger sidekick panel area. Re-install carpet clips.
- b. Route the harness up along the factory wiring visible with the removal of the cabin filter cover panel. Route above glove box towards the radio cavity. Use Wire ties as necessary. **(Fig. 7-1)**
- c. Pull all wires through radio cavity. **(Fig. 7-2)**
- d. Reinstall passenger weather stripping, kick panel, threshold, cabin air filter cover and glove box assembly.
- e. Disengage both ends of the drivers side threshold panel by spreading the edges. Very carefully pull straight up to remove. **(Fig. 7-3)**
- f. Remove Kick Panel
 1. Use a panel tool to remove the snap.
 2. Carefully pull the kick panel to the right towards the pedals. **(Fig. 7-4)**



g. Run Driver side of Quick-Sync Harness (Power Wires).

1. Enter through the radio cavity and run the wire towards the accelerator pedal. **(Fig. 7-5)**



2. Route above the accelerator pedal and steering column into the driver side kick panel. Run neatly and out of the way. Use cable ties as necessary. **(Fig. 7-6)**



3. Connect the factory 6-pin and 10-pin male connectors to the designated female connectors on the Quick-Sync Wiring Harness **(Fig. 7-7)**, and connect the 6-pin and 10-pin connectors to the radio **(Fig. 7-8)**. Make sure they are fully inserted and securely locked in place. **NOTE:** For Standard Factory Radio OEM Audio Plus will provide a Receiver Harness Adapter allowing true plug and play installation.



h. Re-install the radio and trim panel.



VIII. Power Wire Installation

Note: Remove front driver's side tire to allow access to wheel well liner and ease running of the power wire.

a. On outside of vehicle. Using a #2 Phillips screwdriver loosen the front push in snaps underneath the Drivers side side-skirt. **(Fig. 8-1)**



Fig. 8-1

b. Loosen Wheel Well Liner by disengaging the three (3) locking snaps using a #2 Phillips. **(Fig. 8-2)**



Fig. 8-2

c. Disengage the remaining two (2) push in snaps using a panel or pick tool. Loosening the wheel well liner will provide access to the Sun roof Drainage Cap. **(Fig. 8-3)**



Fig. 8-3

d. Remove cap with panel tool or flat head screw driver.

e. Remove the Engine Compartment Drivers side fender cover by disengaging the two (2) locking snaps. **(Fig. 8-4)**

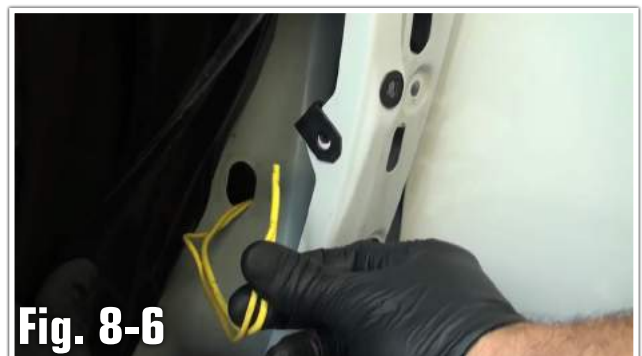


Fig. 8-4

f. In the drivers side kick panel area; Run power wires directly into the light blue access panel opening towards the drivers side front wheel well. Avoid interference with accelerator and brake pedals. **(Fig. 9-5)**



g. Using your fingers or a hooked pick tool, carefully fish the power wires from within the drainage opening. Pull length of wire through opening. **(Fig. 9-6)**



h. Once the power wire installation is completed under the dash area, secure any wire slack to existing factory wiring. Use cable ties as necessary. Reinstall Drivers side Kick Panel and threshold.

i. Using a 5/16 bit or Unibit drill an opening to allow power wire to run and Sunroof Drainage cap to reinstall properly. Power wire opening can be drilled on cap just above hose location. **(Fig. 8-7)**



j. Run length of wires through backside of Cap and reinstall cap to original position. Apply a small amount of silicone sealant on the wire to seal the opening. **(Fig. 8-8)**



k. Install the 1/4" corrugated split loom onto to the power wires. **(Fig. 8-9)**



l. Run the loomed power wires from the wheel well to the battery following the factory wiring. Secure using cable ties as necessary. **(Fig. 8-10)**

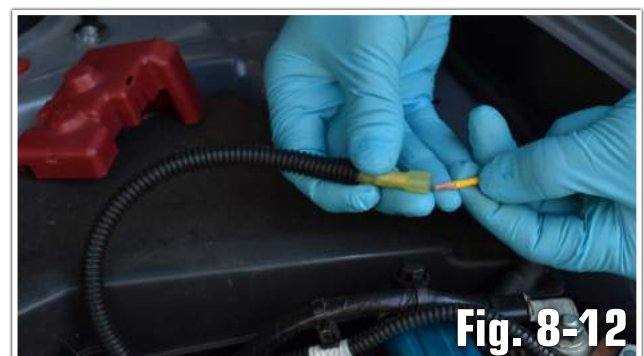


m. Reinstall wheel well liner and corresponding locking snaps in reverse order.

n. Remove the 10mm bolt from the battery's positive terminal and install the ring terminal of the fuse holder lead. Re-install the 10mm bolt. **(Fig. 8-11)**



o. Connect the power wires to the fuse holder using the pre-installed crimp-solder-seal butt connectors. These special connectors have built in solder and heat shrink. Use wire stripper and strip 3/8" off the end of each power wire. **(Fig. 8-12)**



p. Insert 12 gauge power wire and crimp. **(Fig. 8-13)**



q. Apply heat to activate the solder and heat shrink insulator for the best connection possible. Secure using cable ties as necessary. **(Fig. 8-14)**



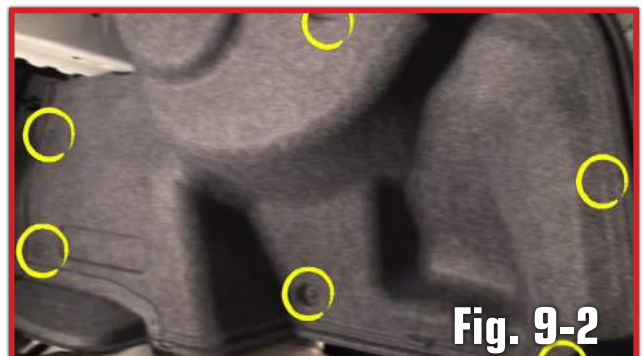
Do not install fuse at this time.

IX. Subwoofer Installation

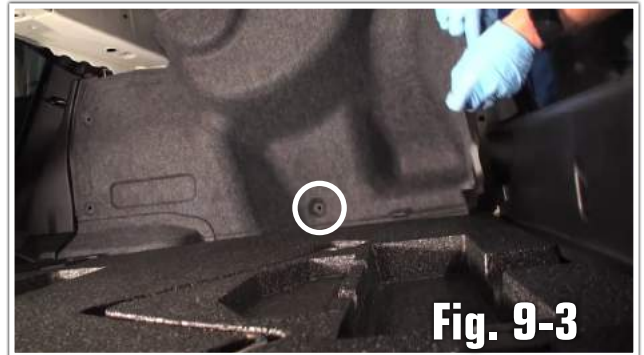
a. Disengage the three Passenger side Trunk Threshold clips by prying the top cap away from its position. Once disengaged the clip can be removed by hand. **(Fig. 9-1)**



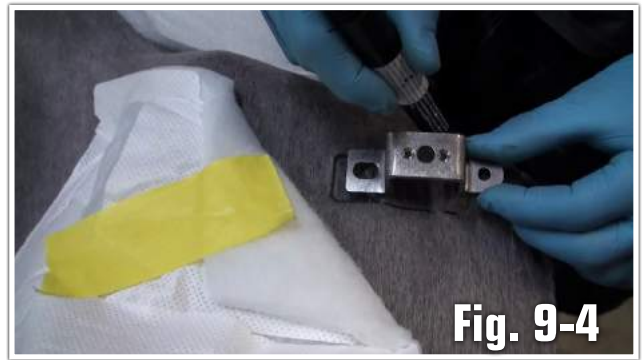
b. Disengage the six (6) clips holding the passenger side trunk liner into position. Remove by prying the top cap of the clip and removing the insert of the side trunk liner clips. **(Fig. 9-2)**



c. Once loosened pull the portion of the liner from underneath the Trunk Threshold and remove the liner in it's entirety out of the vehicle. **(Fig. 9-3)**



d. Rest panel against the Ball Latch Receiver and mark out cut-out for the bracket **(Fig. 9-4)**. (Note the Ball Latch Receiver location in **Fig. 9-3**) Using a razor blade or cutter carefully cut out the opening. **(Fig. 9-5)**



e. Install the Ball Latch Assembly Receiver. **Note:** The M8 Bolt goes on the top. **(Fig. 9-6)**



f. Test fit the panel for clearance. **(Fig. 9-7)**

g. Re-Install Side Trunk liner and all clips associated with it's removal. You will be left with an extra clip as a result of the Ball Latch Receiver Installation; Store for future use if desired.

h. Reassemble trunk inserts, floor mat and cargo mat (if applicable).

i. Install Rear Sub Mounting Hardware

1. Use a pair of dykes to trim the interior mounting of the bumper retainer clip. You will want to make sure the contact point is flush. **(Fig. 9-8)**

2. Using a drill bit, clear the pathway for the support rod to run through **(Fig. 9-9)**. **Note:** Use masking tape on the exterior of the vehicle to prevent damage to the paint.

3. Use a blade to create an opening for the support rod. **(Fig. 9-10)**



4. Insert the M6 countersunk screw with M6 washer and washer seal into the bumper retainer clip cavity. **(Fig. 9-11)**

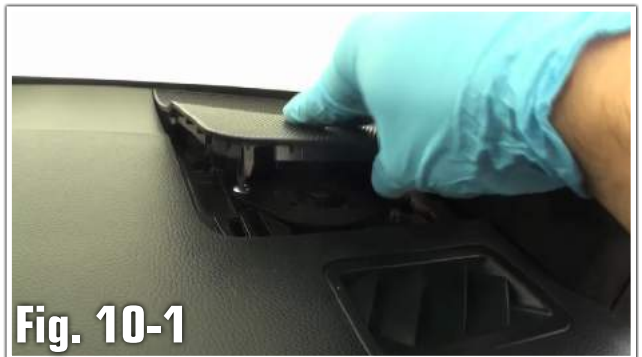


5. Fish the support rod into the opening created in the trunk liner and thread into screw. Fully tighten by hand. **(Fig. 9-12)**



X. Tweeter Installation

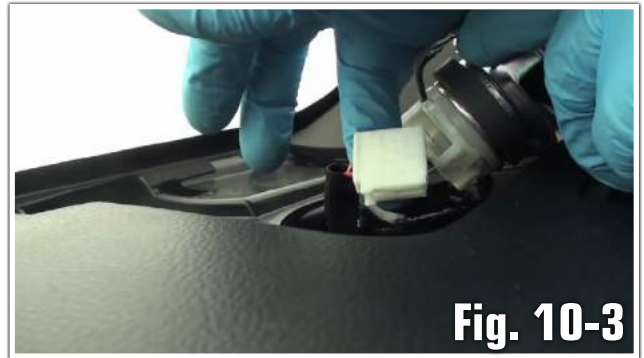
1. Very carefully disengage the speaker grill on the dashboard using a plastic panel or pick tool. Once loosened lift straight up then away to remove. **(Fig. 10-1)**



2. Remove the two (2) #2 Phillips screws. **(Fig. 10-2)**



3. Disconnect the factory speaker connector and remove. **(Fig. 10-3)**



4. Install the OEM Audio Plus tweeter in the same orientation as the factory speaker by aligning screw locations. Reinstall screws. **(Fig. 10-4)**



5. Re-Install the speaker grill by sliding the back end in first.

XI. Fuse Installation

- a. Insert 30A fuse for the 14 ga. power wire. **(Fig. 11-1)**

- b. Connect Battery ground.



XII. This concludes the OEM Audio Plus SYSTEM 450Q and Installation for the SUBARU WRX/STI.

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