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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 covers 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.

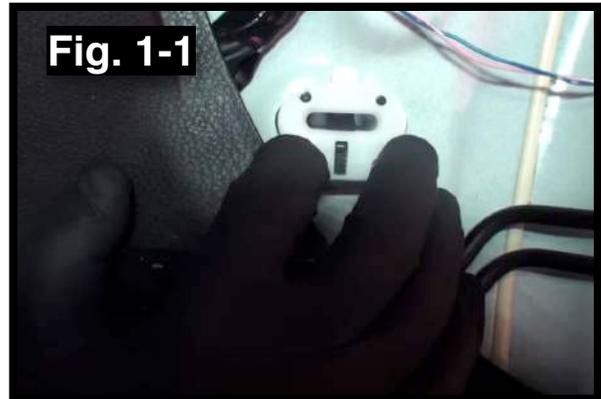
Revisions and other installation assets

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 fill out online 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. Turning wheels all the way to the left will allow access to power wire location.
- d. Disconnect the negative (-) battery cable.
- e. Remove trunk cargo mat and/or floor board
- f. Remove Rear Bottom Seat Cushion.



1. From the Passengers side, locate locking mechanism under the cushion. **(Fig. 1-1)**
2. Repeat for other side of the vehicle
3. Pull straight up from center of cushion to disengage.
4. Remove rear seat cushion from the vehicle



- g. Disengage both ends of the rear Passenger side threshold panel by pulling straight up to remove. (Panel tool may be needed to remove the green snap). **(Fig. 1-2)**



- h. Remove the front Passenger side threshold panel by pulling straight up to remove. **(Fig. 1-3)**

- i. Loosen Passenger Seat
 1. Using a 14mm socket, remove the four 14mm seat bolts. **(Fig. 1-4)**



2. Disconnect the two connectors underneath the seat (Ensure your Negative Battery Terminal is disconnected before performing this step). **(Fig. 1-5)**
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 when removing seat assembly.



j. 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. 1-6)**



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 sliding the panel in a downward motion. **(Fig. 1-7)**



3. Check for **Pink snaps** that may not have came off with the panel. Re-insert to panel if applicable. **(Fig. 1-8)**

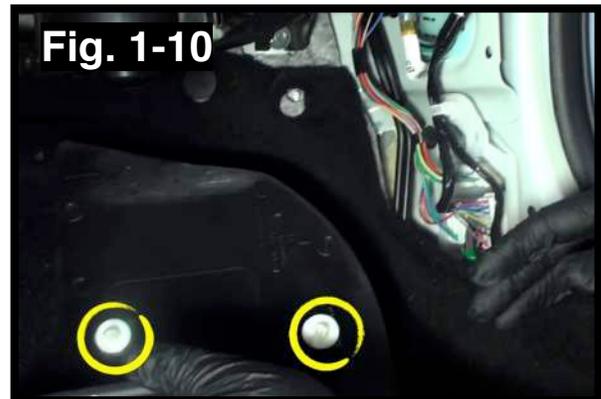


k. Removing the Passenger side kick panel

1. Use a panel tool to remove the snap.
(Fig. 1-9)

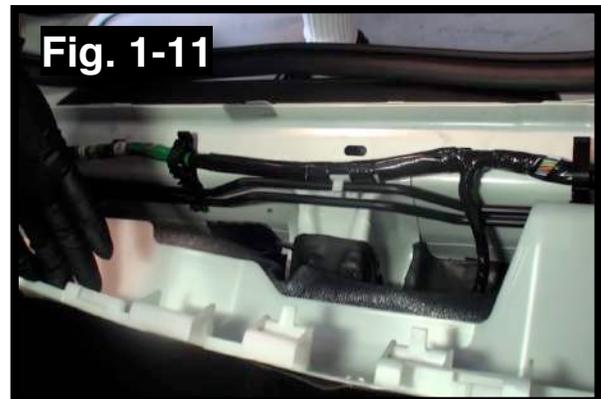


2. Carefully pull the kick panel to the left towards the driver's side (Two small snaps secure it). Check for **white snaps** that may not have come off with the kick panel. Re-insert. (Fig. 1-10)



l. Disassembly continued

1. Lift carpet by disengaging the white plastic clips in the front and rear Passenger side threshold area. (Fig. 1-11)



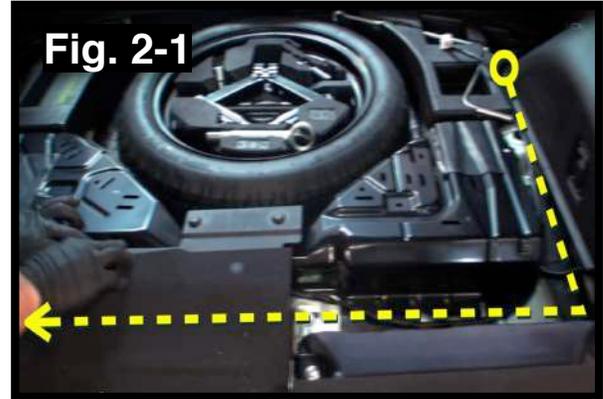
2. Fold down rear-seat back rest

3. Lift the rear-seat backrest carpet locations in the cargo area exposing the channel between the rear seat and the cargo area. (Fig. 1-12)

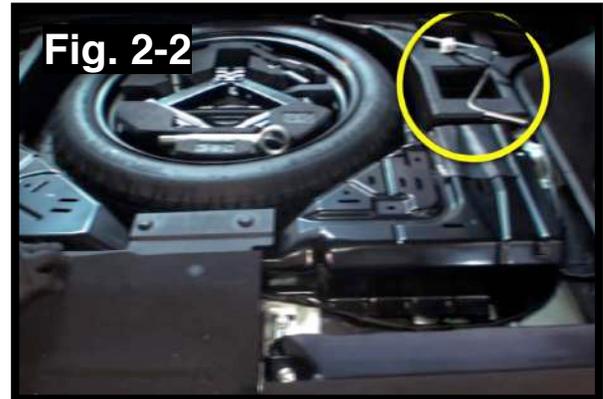


2. Subwoofer Umbilical Installation

- a. From the Driver side of the vehicle, run the subwoofer cable from the cargo area to the Passenger side front threshold area. **(Fig. 2-1)**
Note: Provide 3" of cable slack in the trunk near the driver's side wheel well to accommodate routing to Subwoofer. **(Fig. 2-2)**



- b. Run the cable through the channel provided between the rear seat and cargo area to the passenger side of the vehicle. **(Fig. 2-1)**



- c. Run cable under the rear seat belt bolt and towards the passenger side rear threshold area. **(Fig. 2-3)**



- d. Wire tie cable to factory wiring as necessary. **(Fig. 2-4)**



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



- f. Re-install floor board and cargo tray (if applicable).

- g. Ensure that 3" of slack remains for the subwoofer connector. **(Fig. 2-6)**



- h. Continue to run subwoofer umbilical alongside the factory wiring toward the Passenger side front threshold. **(Fig. 2-7)**



- i. Run the cable under the carpet and exit under the passenger seat area through the opening used by the factory wiring that connects under the seat. **(Fig. 2-8)**
- j. Leave all remaining sub umbilical slack in this area (should have about 12" of slack)
- k. Reinstall the Passenger side seat belt trim, Weather stripping, rear threshold panel and rear seat cushion.



3. Radio Removal

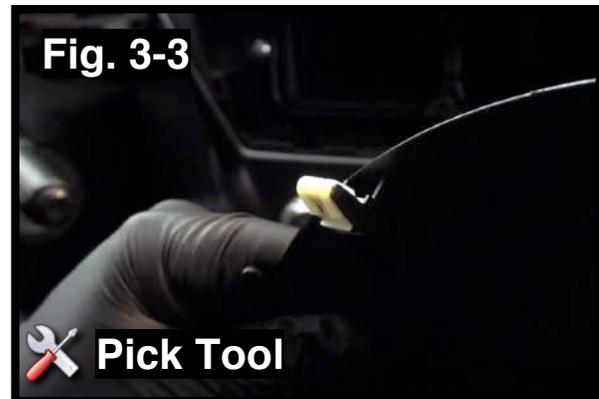
- a. Lay down protective blanket over climate controls and transmission area.
- b. Remove radio trim panel by carefully prying away by hand. **(Fig. 3-1)**



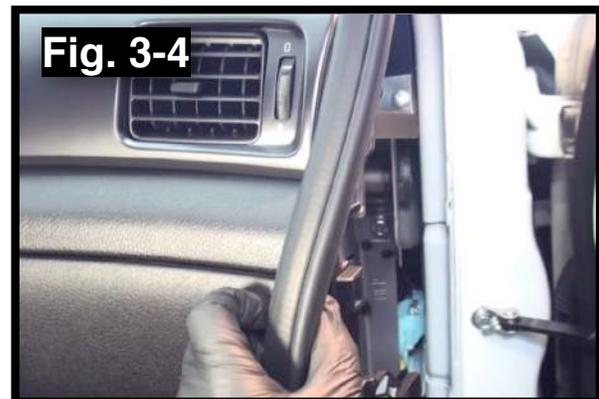
- c. Remove speedometer hood by pulling toward you with gentle force. **(Fig. 3-2)**



- d. Check for **White or Yellow** locking clips that may not have come off with the panel. Re-insert the locking clips to the hood if necessary. If a clip is found engaged in dash it can be removed with pliers or pick tool. In some cases these may fall off upon removal often falling through to driver side floor area. **(Fig. 3-3)**



- e. Loosen front passenger side weather stripping and Remove Passenger side dash panel by pulling away. **(Fig. 3-4)**



- f. Remove the top #2 Phillips screw securing the vent and front dash bezel in place. **(Fig. 3-5)**



- g. Carefully remove the front dash bezel. Start with the piece nearest to the steering wheel and work your way to the passenger side. Pulling directly towards you as you go. **(Fig. 3-6)**



- h. Once front dash bezel is loose; disconnect the climate control connectors. And remove the Front Bezel completely from the vehicle. **(Fig. 3-7)**



- i. Using a #2 Phillips Screw, remove the four (4) screws holding the radio in place. **(Fig. 3-8)**



- j. Disconnect connectors and antenna lead.
(Fig. 3-9)
- k. Remove radio and store.



4. 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. 4-1)



- b. Locate the factory ground underneath the carpet between the 2 vents and remove the 10mm ground bolt. (Slicing the carpet for ease of access is an option, but not necessary.)
(Fig. 4-2)



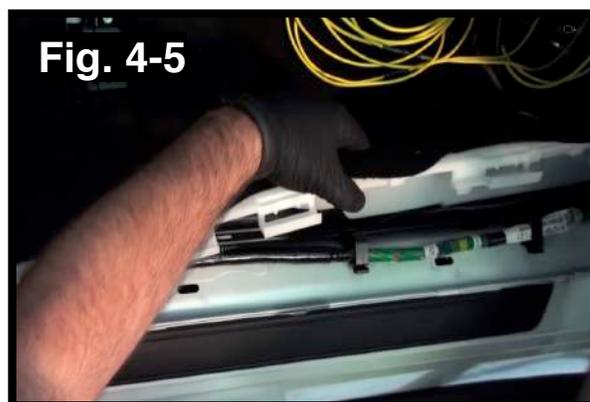
- c. Install the harness ground together with the factory ground and re-install the 10mm bolt.
Note: Make sure harness ground terminal rests on top of the factory ground terminal.
(Fig. 4-3)



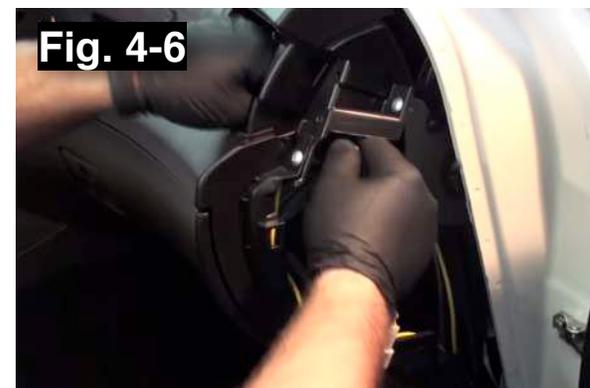
- d. You will be left with the White, Gray and Black connectors of the Quick-Sync Wiring Harness and the gray connector of the Subwoofer Umbilical. **(Fig. 4-4)**



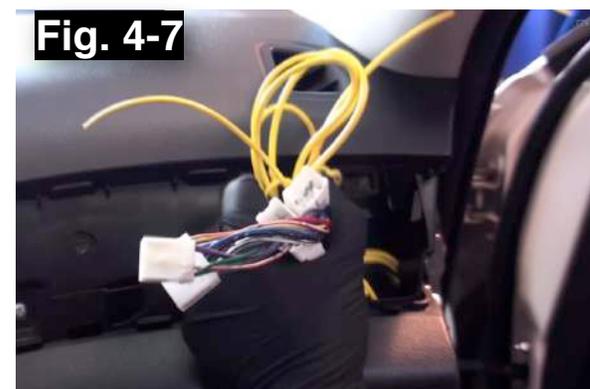
- e. Continue routing the other side of the harness along the factory wiring towards the passenger sidekick panel area. Re-install carpet clips. **(Fig. 4-5)**



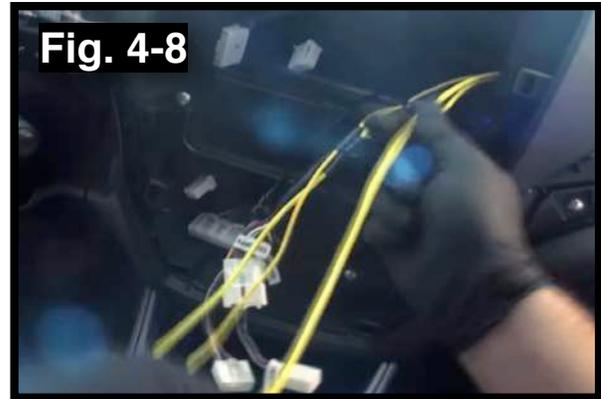
- f. Route the harness up along the side of the dash to the opening provided with the removal of the side dash panel. **(Fig. 4-6)**



- g. Pull harness through the vent opening, and continue run behind dash; above glove box towards the radio cavity. **(Fig. 4-7)**

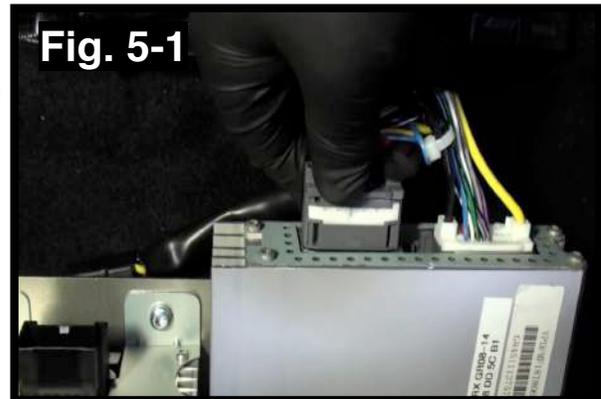


- h. Pull all wires through radio cavity. **(Fig. 4-8)**
- i. Reinstall passenger weather stripping, kick panel and threshold.



5. Amplifier Assembly

- a. Position Amplifier Assembly in Passenger side front seat location.
- b. 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. 5-1)**



- c. Plug the Black 10-pin connector from the Quick-Sync Harness into its designated receptacle on the Sub Amplifier. **(Fig. 5-2)**



- d. Plug the 6-pin Gray connector from the Sub cable into its designated receptacle on the Sub Amplifier. The Cable itself should run underneath the amplifier assembly. **(Fig. 5-3)**



e. Mounting the Amplifier Assembly

1. Expose the factory mounting bolts by lifting the carpet slits located on the floor.
2. Position the amplifier assembly so bolts run through provided mounting locations.
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. 5-4)**
4. Use socket wrench to tighten.
5. Ensure the factory connectors are assessable for reinstallation of passenger front seat.
6. Very carefully return the passenger seat back to its original position
7. Reconnect the two connectors underneath the seat. **(Fig. 5-5)**
8. After returning the seat back in place, confirm that the seat bolt holes are lining up. **(Fig. 5-6)**
9. 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.
10. Finish tightening all four seat bolts using your 14mm socket and ratchet



6. Power Wire Installation

- a. Disengage both ends of the driver's side threshold panel by spreading the edges. Very carefully pull straight up to remove. **(Fig. 6-1)**



- b. Remove Kick Panel (**Fig. 6-2**)
 - 1. Use a panel tool to remove the snap.
 - 2. Carefully pull the kick panel to the right towards the pedals.



- c. Remove Driver side dash panel by pulling away.

- d. Remove the (2) two #2 Phillips screws holding the lower drivers side panel in place. (**Fig. 6-3**) Disengage panel by pulling directly away from position.



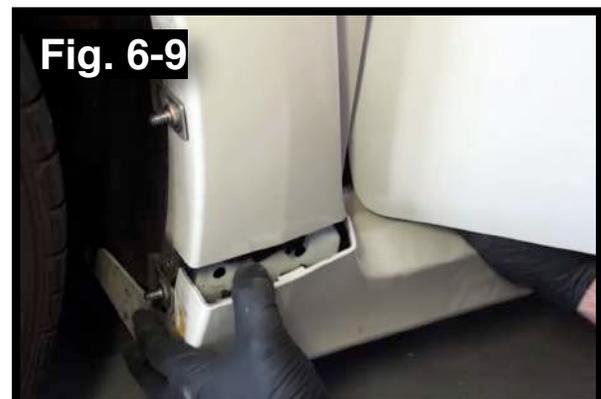
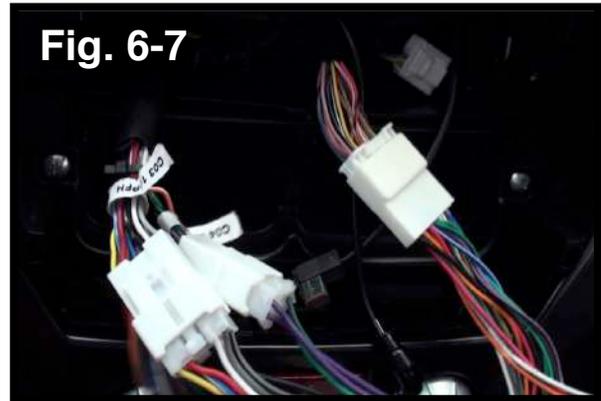
- e. Disconnect all connectors attached to panel. Remove and store. (**Fig. 6-4**)



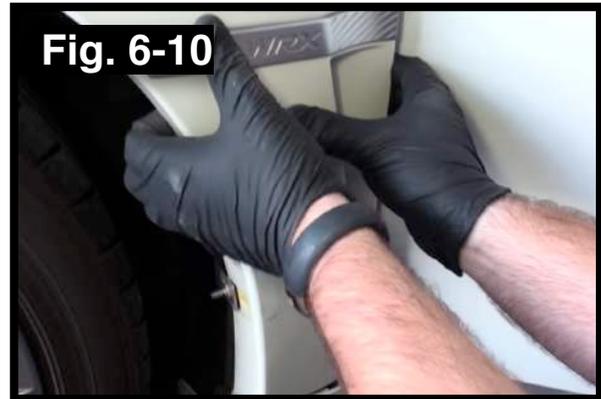
- f. Enter through the radio cavity and run the yellow power wires towards the accelerator pedal. (**Fig. 6-5**)



- g. Finish routing wiring by routing 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. 6-6)**
- h. Reinstall lower driver's side panel, hardware and driver's side dash panel in reverse order. Taking time to ensure all connectors and clips are fully engaged. Failure to securely reinstall panel may result in rattles.
- i. Reinstall front dash bezel, hardware, passenger side dash panel and speedometer hood.
- j. Connect the Quick-Sync harness to the factory harness and radio (10-pin and 6-pin connectors). 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. **(Fig. 6-7)**
- k. Re-install the radio and trim panel.
- l. On outside of vehicle. Using a flat head screwdriver or panel tool Loosen the two (2) front push in snaps underneath the Drivers side side-skirt. **(Fig. 6-8)**
- m. Once snaps are disengaged loosen the side-skirt by pulling directly towards you. Side skirt only needs to be loosened. **(Fig. 6-9)**



- n. Remove Fender Garnish completely by pulling directly towards you. **(Fig. 6-10)**



- o. Loosen *Wheel Well Liner* by disengaging three (3) push in snaps. Loosening the wheel well liner will provide access to the Sun roof Drainage Cap. **(Fig. 6-11)**

Note: Turning wheels all the way to the left will allow access to power wire location. (If you are performing this step midway through the installation: Ensure Front Passenger Seat connections are reinstalled before reconnecting battery)



- p. Remove cap with panel tool or flat head screw driver. **(Fig. 6-12)**



- q. In the driver's side kick panel area; use a pick tool to open the inner fender harness shield. **(Fig. 6-13)**



- r. Run power wires directly into the access panel opening towards the driver's side front wheel well. Run entire length through the sunroof drainage opening. Avoid interference with accelerator and brake pedals. **(Fig. 6-14)**



- s. Using your fingers or wire ties, carefully fish the power wires from within the wheel well. Pull length of wire through opening. Using Electric tape may be necessary for this process. **(Fig. 6-15)**



- t. 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. **(Fig. 6-16)**



- u. Using a 5/16 bit or Unibit, drill an opening to allow power wire to run through and Sunroof Drainage cap to reinstall properly. If Sunroof Drainage Hose is present, power wire opening can be drilled on cap just above hose location. **(Fig. 6-17)**



- v. 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. 6-18)**



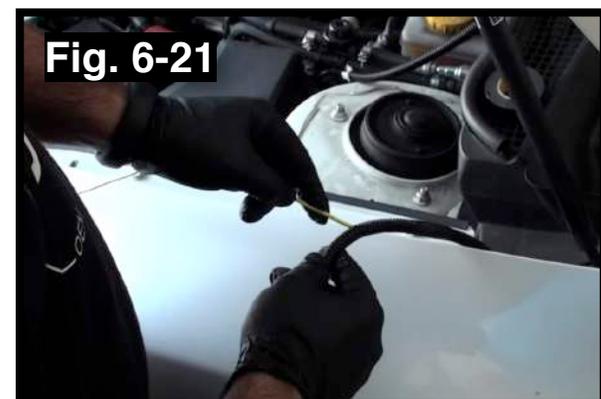
- w. Using a fish pole, grab tool or modified wire coat hanger fish the power wires from the wheel well to the engine compartment. **(Fig. 6-19) and (Fig. 6-20)**



- x. Reinstall wheel well liner, fender garnish and side skirt in reverse order.



- y. Install the 1/4" corrugated split loom onto to the power wires. **(Fig. 6-21)**



- z. Run loomed power wires neatly and out of the way ending by the battery. Secure using cable ties as necessary.

- aa. 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. 6-22)



- bb. 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.
- cc. Insert 12 ga. power wire into the Yellow butt connector and crimp. Insert 14 ga. wire into the Blue butt connector and crimp. (Fig. 6-23)



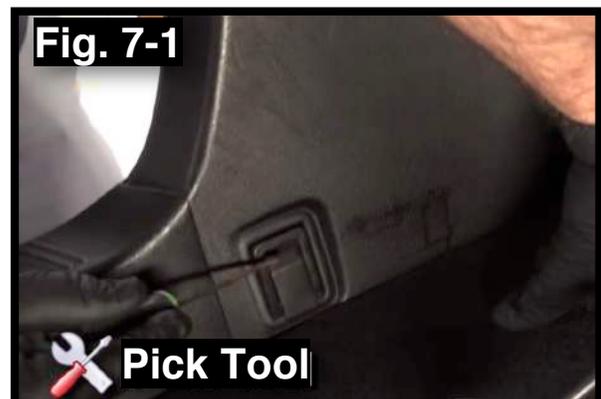
- dd. Apply heat to activate the solder and heat shrink insulator for the best connection possible. Secure using cable ties as necessary. (Fig. 6-24)



Note: Do not install fuses at this time.

7. Subwoofer Installation

- a. In the cargo area; using a pick tool remove the trim cover of the rear cargo net hook exposing the 10mm bolt. Remove the 10mm bolt and hook assembly. (Fig. 7-1)



- b. } Install the “B” rear Subwoofer Mounting bracket.
Turn the bolt by hand initially. If binding occurs
remove the bolt and repeats steps. Use socket
wrench to tighten. **(Fig. 7-2)**



- c. Using a pick tool remove the trim panel of the
front cargo net hook exposing the 10mm bolt.
Remove the 10mm bolt and hook assembly.
Install the “A” front Subwoofer Mounting bracket.
Turn the bolt by hand initially. Use socket wrench
to tighten. **(Fig. 7-3)**



- d. Position OEM Audio Plus subwoofer in cargo
area
- e. Connect Sub umbilical cable to OEM Audio Plus
Subwoofer System. **(Fig. 7-4)**



- f. Install the M6 1.0x35mm (Quick-Release Knob)
on the rear and front sides of the enclosure.
(Fig. 7-5)



8. Fuse Installation

- a. Insert 20A fuse for the 14 ga. power wire (thinner wire) and the 30A fuse for the 12 ga. power wire. **(Fig. 8-1)**



- b. Connect Battery ground. **(Fig. 8-2)**

This concludes the OEM Audio Plus System 400 Installation

Start your engine.

Turn on your radio.

Enjoy!



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

✓	Check:	Vehicle Function Detail:
	Power Windows	Verify power window controls are functioning properly.
	Power Door Locks	Verify power door lock controls are functioning properly.
	Hazard Lights	Verify hazard lights are functioning properly.
	Clock	Verify proper time on clock.
	Radio	Verify radio is functioning properly.
	Navigation (if applicable)	Verify navigation system is functioning properly.
	Bluetooth (if Applicable)	Verify Bluetooth is functioning properly.

Basic Troubleshooting Tips

In most cases, issues with the OEM Audio Plus sound system upgrade are installation related. We have found that these few simple troubleshooting steps have resolved customer issues.

1. Double-check all Amplifiers and Radio connections - Unplug each connector then re-plug to confirm secure connection. Listen and feel for the locking “click”. **This is the most common issue.**
2. Verify Radio Connections - Make sure that the male factory harness connectors are plugged to female *OEM Audio Plus* harness connectors and the male *OEM Audio Plus* harness connectors are plugged directly to the radio.
3. Check the fuses.
4. Check the Amplifier ground connection.
5. Reset the DSP Amplifier - Disconnect the (-) negative terminal from the battery for one hour.
6. Check the wiring – Look out for pinched or damaged wires that may have occurred during installation.
7. If all else fails - Bypass the *OEM Audio Plus* sound system by restoring the factory connections to the radio and contact the *OEM Audio Plus* technical support line at **1-855-OEM-ODIO ext. 601.**