



**Kit Contents:** OEM Audio Plus 86 Reference 400CF (RHD)

Item 1	Item 2	Item 3	Item 4	Item 5	
					
Item 6	Item 7	Item 8	Item 9	Item 10	Item 11
					

Hardware Content			Tools Recommended	
Item	Quantity	Description	Personal & Vehicle Protection	Notes
1	2	1" Soft Dome Tweeter with Neodymium Magnet	Safety Goggles	
2	1	8" Carbon Fiber Subwoofer in Custom Fit Sealed Enclosure (with Amps Attached)	Protective Blanket	
3	2	6.5" Carbon Fiber Cone Front Woofer	Safety Gloves	
4	1	Amplifier Module (See Item 2) (1) DSP Amplifier (1) Subwoofer Amplifier	<b>Special Tools</b>	<b>Notes</b>
5	1	Quick-Sync Harness	Panel Clip Removal	SST # 00002-06001-01
6	1	Fuse Holder Assembly, (1) 30-Amp Fuse, (1) 20-Amp Fuse	Socket Wrench	10mm, 12mm
7	1	Corrugated Split Loom	Socket	10mm, 12mm
8	1	1.0x13.5mm Speed Nut (Attached to Enclosure)	Socket Extension	6"
9	1	1.0x19.5mm Speed Nut (Attached to Enclosure)	Wrench	10mm
10	1	M6 1.0x60mm Screw (Attached to Enclosure)	Screwdriver	#2 Phillips
11	1	Quick Release M6 1.0x35mm Knob (Attached to Enclosure)	Pliers	
12	6	Cable Ties (Not Pictured)	Allen Wrench	4mm <b>(Included)</b>
			Utility Blade	
			Pick Tool	Optional for speaker grill
			Wire Strippers/Crimpers	
			Heat Gun / Or Handheld Torch	Needed for 12g & 14g Butt Sealed-Crimp-Solder Connectors
			<b>Installation Tools</b>	<b>Notes</b>
			Electrical Tape	
			Cable Ties	<b>10 Piece bundle Included</b>
			<b>Special Chemicals</b>	<b>Notes</b>
			Silicone Sealant	For Sealing Grommet
			<b>Legend</b>	
				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.

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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](http://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](http://oemaudioplus.com/registration) or call: **855 OEM-ODIO** for more details and alternative methods of system registration.

## 1. Vehicle Preparation

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

## 2. Radio Removal

1. Make sure you have a protective blanket over the center stack/transmission area to protect from scratches during radio removal.

(Fig. 2-1)



2. Remove radio trim panel by loosening outer edge using plastic panel tool or by hand. Disengage snaps by pulling towards you.

(Fig. 2-2)

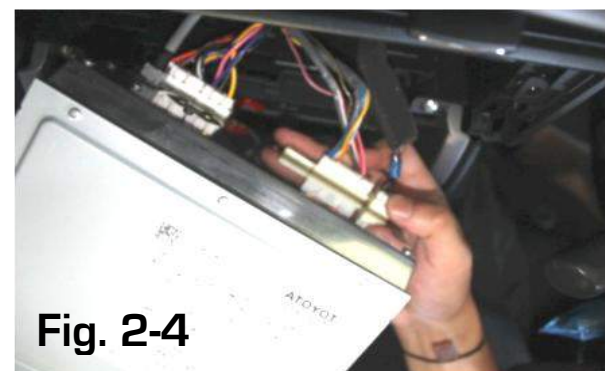


3. Use a 10mm socket to remove the [4] bolts securing the radio. (Fig. 2-3)



All radio connectors have a locking tab that you must push down to disconnect. Carefully remove each connector then set the radio aside. (Fig. 2-4)

**Tip:** Take a picture of radio connector orientation before unplugging for reference.



**3. Quick-Sync Harness Installation (Driver Side Only)**

**a. Remove Driver Threshold Panel**

1. Disengage both ends of the threshold panel by spreading the edges. Very carefully pull straight up to remove. Repeat for other side. **(Fig. 3-1)**.



**b. Remove Kick Panel**

1. Use a plastic panel tool to remove the snap. **(Fig. 3-2)**



2. Carefully pull the kick panel to the right towards the pedals (Two small snaps secure it). Check for **green snaps** that may not have come off with the kick panel. Re-insert the green snaps to the kick panel if any. **(Fig. 3-3)**



**c. Remove Driver Side Rear Panels**

1. Loosen weather-stripping by hand and remove carefully in an outward direction. **(Fig. 3-4)**



2. Use a 10mm socket to remove the bolt securing the bottom seat cushion. **(Fig. 3-5)**



3. Push down on the center of the back side of the cushion to release the locking tab then remove the bottom seat cushion. **(Fig. 3-6)**



4. Use a plastic panel tool to remove the push in snap at the bottom of the rear panel. **(Fig. 3-7)**



5. Located in the trunk area, pull both backrest release straps to fold the backrest down. **(Fig. 3-8)**





6. Use a plastic panel tool and remove the two push in snaps at the rear of the panel.  
(Fig. 3-9)



7. Carefully disengage the snaps one by one and pull the rear panel towards you and away to remove. (Check the panel for missing **snaps** - may still be attached to vehicle). (Fig. 3-10)



*d.* Route the Quick-Sync Harness

1. Use a utility knife and cut a U-shaped slot approximately 1" wide and 2" high in the area located in this picture on the driver side trunk panel. This will provide access for the harness plugs to the amplifiers. (Fig. 3-11)



2. Remove the trunk carpet and trunk floor board. (Fig. 3-12)



3. Use a plastic panel tool to remove the push in snap on the driver side of the trunk.  
**(Fig. 3-13)**



4. Install the smaller size 1.0x13.5mm speed nut on the mounting hole. **(Fig. 3-14)**



5. Locate the 2-hole bracket behind the driver side trunk carpet panel. Use pliers to flatten out the bracket behind the 2-hole bracket. **(Fig. 3-15)**



6. Install and position the 1.0x19.5mm speed clip so that it aligns with the top hole on the 2-hole bracket. **(Fig. 3-16)**

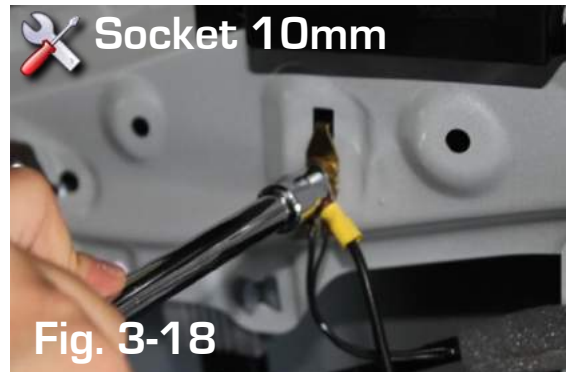


7. Run the Quick-Sync harness' amplifier connectors through the 1"x 2" slot. Pass through one connector at a time. **(Fig. 3-17)**



8. Using the factory ground located behind the rear driver side trim panel, remove the 10mm ground bolt and install the harness ground together with the factory ground. Re-install the 10mm bolt. **(Fig. 3-18)**

**Note: Make sure harness ground terminal rests on top of the factory ground terminal.**



9. Run the ground wire with exiting factory wire and secure using the provided cable ties. **(Fig. 3-19)**



10. Reinstall Driver side trim panels and Rear seat cushion.

11. Lift carpet by disengaging the white plastic clips in the driver side threshold area and continue routing the harness underneath the carpet towards the driver sidekick panel area. Re-install carpet clips and weather-stripping. **(Fig. 3-20)**





12. Route the Quick-Sync harness under the driver side dash and towards the radio cavity. (The two yellow power wires **must** remain separate in the driver-side kick panel for now). Secure the harness to the existing gray factory wires using cable ties. **(Fig. 3-21)**



13. Route the harness towards the radio cavity until connectors are visible. **(Fig. 3-22)**



14. 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. **(Fig. 3-23)**



15. Re-install the radio and trim pane

#### 4. *Amplifier and Subwoofer Installation*

##### a. Amplifier Connection

1. Plug the gray 22-pin connector to the upper receptacle and the white 22-pin connector to the lower receptacle of the DSP Amplifier (larger amp). Plug the black 10-pin connector to the bottom receptacle on the Sub Amplifier (smaller amp). **IMPORTANT:** Make sure all connectors are fully inserted and securely locked ( **listen for a locking click – Pull on harness lightly to confirm secure connection**). **(Fig. 4-1)**



**b. Subwoofer Installation**

1. Place the subwoofer enclosure in position and install the M6 1.0x60mm screw on the backside to secure the enclosure. (Shifting the enclosure may be necessary to align holes). Do not fully tighten yet. **(Fig. 4-2)**



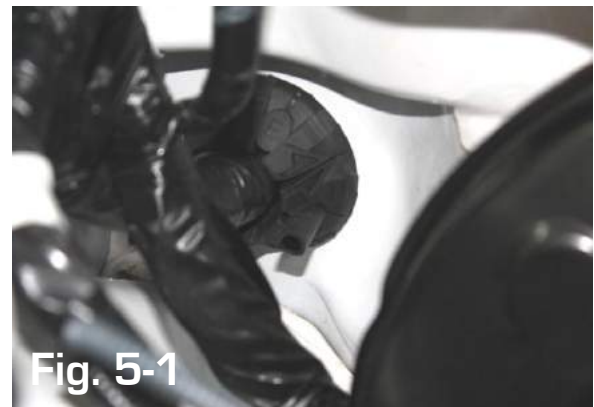
2. Install the M6 1.0x35mm (Quick Release Knob) screw on the front side of the enclosure. **(Fig. 4-3)**



3. Once Subwoofer enclosure is aligned, secure by tightening both mounting screws.

**5. Power Wire Installation**

1. Locate the factory wiring harness grommet (on the driver side of the engine bay adjacent to the brake master cylinder). Cut-off the tip of the grommet nipple. **(Fig. 5-1)**



2. Return to the driver side under-dash and route the two yellow power wires through the firewall grommet (lubricate accordingly to prevent binding). Run the entire length of power wire then pull it back one inch and apply a bead of silicone sealant to the wire. Push the wire with silicone to seal the opening. **(Fig. 5-2)**



3. Install the 1/4" corrugated split loom onto to the power wires. Run the entire length to the firewall grommet. **(Fig. 5-3)**



4. Run the loomed power wires across the engine bay towards the battery. Secure to existing factory wiring using cable ties. **(Fig. 5-4)**

**NOTE:** Run the power wires directly underneath the windshield wiper cowl.



#### 6. Fuse Holder Assembly Installation

1. Remove the 12mm top nut from the battery's positive terminal and install fuse holder ring terminal. Re-install the 12mm nut and tighten.



**Note:** Do not install fuses at this time!

**(Fig. 6-1)**



2. Insert 12 ga. Power Wire into Yellow butt connector. Insert 14 ga. Power Wire into Blue butt connector. Crimp and apply heat to both butt connectors to activate the solder and heat shrink insulator for the best connection possible. **(Fig. 6-2)**

- 3.





## 7. Tweeter Installation

- a. Remove dash speaker grills
  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. 7-1)**



2. Disconnect the tweeter connector then unclip the tweeter from the speaker grill by pushing away one of the locking tabs. **(Fig. 7-2)**



3. Remove the OEM Audio Plus tweeter from its packaging and carefully apply pressure to the tweeter foam gasket and push outwards prior to installation. **(Fig. 7-3)**



4. Install the OEM Audio Plus tweeter in the same orientation as the factory tweeter by aligning it with the locking tabs. Make sure it snaps into place. **(Fig. 7-4)**
  5. Connect the tweeter connector and make sure it is secured with built-in locking tab.





6. Install the speaker grill by sliding the back end in first. **(Fig. 7-5)**



Fig. 7-5

7. Push the front side of the speaker grill straight down until it snaps back into place. **(Fig. 7-6)**



Fig. 7-6

8. Repeat steps 1-7 for the other tweeter.

### 8. *Front Woofer Installation*

#### a. Door Disassembly

1. Using a Panel or Pick tool disengage door locking tab **[Fig. 8-1]**



Fig. 8-1

2. Remove the small screw cover behind interior door latch. It is best to remove and set aside to avoid it falling off and being misplaced. **[Fig. 8-2]**



Fig. 8-2

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

4. Remove silver trim from door grab handle. Tool insertion slot is located at the bottom of the trim [Fig. 8-3]



5. Remove the two #2 Phillips screws securing the grab handle. [Fig. 8-4]



6. Using your hands or a panel tool, 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. 8-5]



7. Disconnect window/ door lock control connectors from door panel. [Fig. 8-6]



8. Remove door latch assembly from door panel by unsnapping and lifting the latch connectors. Connectors need to be reassembled in the same orientation (White on top. Green on bottom). [Fig. 8-7]



9. Set Door panel aside

b. Removing Factory Speakers

1. Disconnect the 6.5" speaker connector  
Remove the three (3) #2 Phillips screws holding the factory 6.5" speaker in place and remove speaker. [Fig. 8-8]



c. Speaker Installation

1. Mount the 6.5" OEM Audio Plus speaker by using the three (3) #2 Phillips Screws and re-install 6.5" speaker connector. [Fig. 8-9]



9. Fuse Installation

- a. Insert the 20A fuse for the 14 ga. power wire (thinner wire) and the 30A fuse for the 12 ga. power wire. [Fig. 9-1]





**10. Connect Battery ground (-). (Fig. 10-1)**

**11. Set Clock to correct time.**

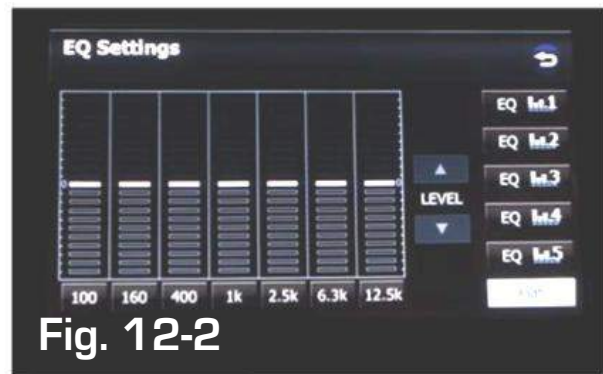


**12. Verify Radio Settings.**

1. Verify "EQ Settings" is set to "Flat" - Your O+ System is tuned to deliver the O+ signature sound at your radio's default setting] (Fig. 12-1)



2. Turn radio on and select "Off" for the ASL setting in the "Sound Menu" (Fig. 12-2)  
**NOTE:** This setting is only applicable to certain radios: adjusts the sound level to account for road noise.



**13. This concludes the Installation of the OEM Audio Plus sound solution for the Subaru BRZ and the Scion FR-S**

- a. Start your engine.
- b. Turn on your radio.
- c. 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.**