



# AXDSPX-TY3

## INSTALLATION INSTRUCTIONS

## DSP Interface with Pre-Wired Harness Fits Select Toyota Models **2018-Up**

### INTERFACE FEATURES

- Designed for both amplified and non-amplified models
- AXDSP-X interface and vehicle-specific T-harness included
- Selectable 31 Band Graphic EQ or 5 Band Parametric EQ
- 10 individually assignable outputs
- Independent equalization on each of the 10 outputs
- Independent high pass, low pass, and band pass filters
- Each channel can be delayed independently up to 10ms
- Clipping detection and limiting circuits
- U.S. Patent 9,875,078
- Easy behind the radio installation with pre-wired harness

*(Features continued on next page)*

### INTERFACE COMPONENTS

- AXDSPX-TY3 interface
- AXDSPX-TY3 interface harness
- AXDSPX-TY3 vehicle T-harness
- Bass knob

### APPLICATIONS

Visit [AxxessInterfaces.com](http://AxxessInterfaces.com) for current application list

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### TOOLS & INSTALLATION ACCESSORIES REQUIRED

- Crimping tool and connectors, or solder gun, solder, and heat shrink • Tape • Wire cutter
- Zip-ties • Multimeter

### Download the AX-DSP-XL App

Android™ 9 or higher



iOS® 12.1 or higher



**ATTENTION:** With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections, especially the air bag indicator lights, are plugged in before reconnecting the battery or cycling the ignition to test this product.

**NOTE:** Refer also to the instructions included with the aftermarket accessory before installing this device.

[www.MetraOnline.com](http://www.MetraOnline.com)

MetraOnline.com may be used to assist with dash assembly instructions. Simply enter your Year, Make, Model vehicle into the vehicle fit guide and look for the Dash Kit Installation Instructions.



## INSTALLATION OPTIONS

### Adding a subwoofer to a factory system:

This feature offers the ability to add a subwoofer to a factory system, whether amplified\* or non-amplified (Refer to **Page 3**)

### Adding a full-range amp and subwoofer to a factory system:

This feature offers the ability to add a full-range amp and sub to a factory system, whether amplified\* or non-amplified. (Refer to **Page 4**)

\* For amplified models the amp must be bypassed/unplugged.

Refer to <http://www.MetraOnline.com> for the vehicle-specific amplifier bypass harness.

**Note:** The interface provides a 12-volt 1-amp output to turn on aftermarket amp(s). If installing multiple amps, an SPDT automotive relay will be required if the amp turn-on current of all amps combined exceeds 1-amp. Use Metra part number E-123 (sold separately) for best results.

## FEATURES CONT.

- Bass knob included for level control of subwoofer amp
- Settings adjusted via Bluetooth® wireless technology when used with the free downloadable AX-DSP-XL app for smartphones and tablets
- Read, write, and store configurations for future recall
- Password protect feature available in the mobile app
- Micro “B” USB updatable

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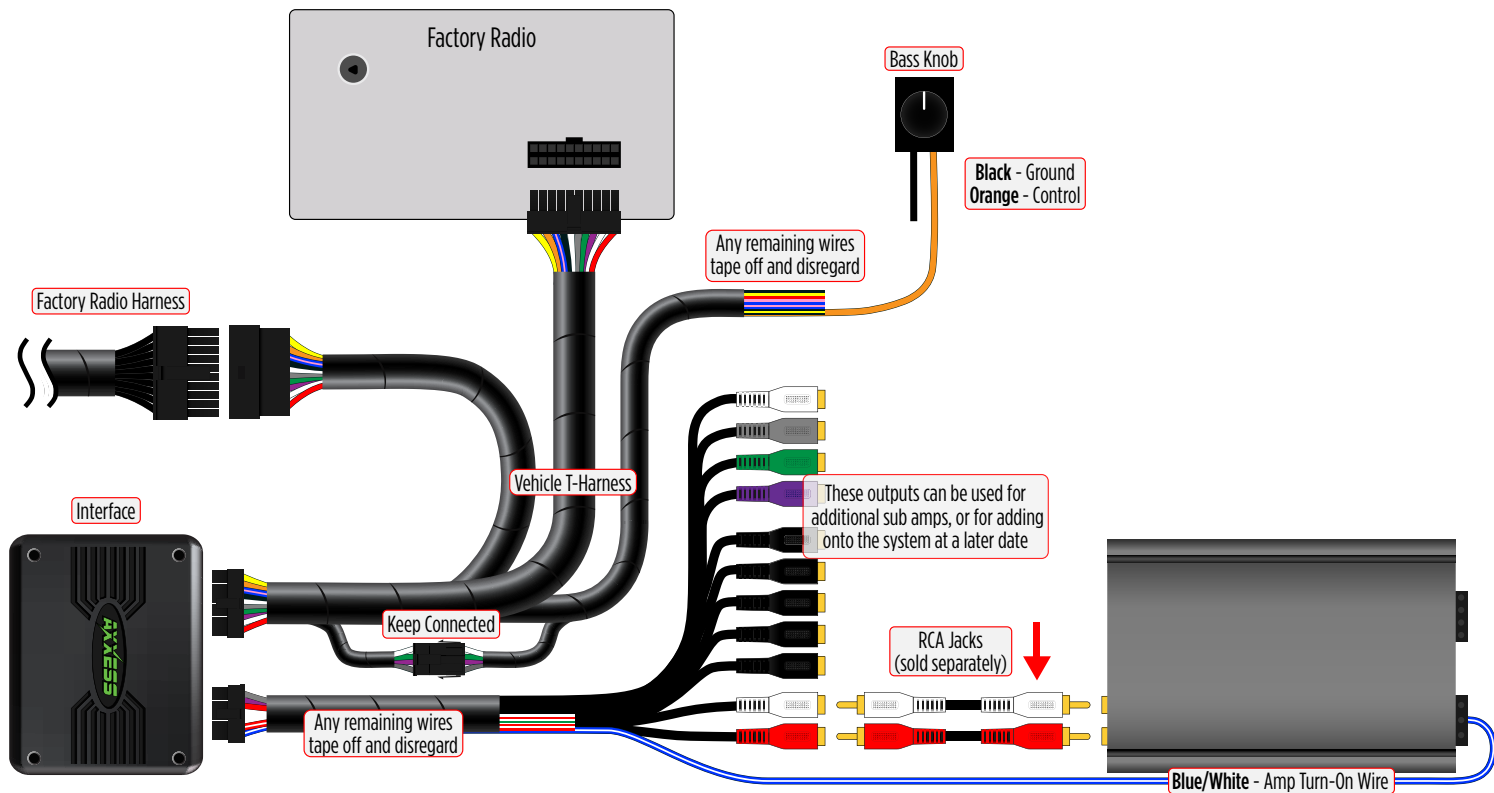
## INSTALLATION

1. Disassemble the dash, unplug all connectors, and then remove the factory radio.\*
2. Install the **AXDSPX-TY3 vehicle T-harness** to the vehicle and make all necessary connections, but leave the amp turn-on wire disconnected.
3. Plug the **AXDSPX-TY3 vehicle T-harness** to the **AXDSPX-TY3 interface**.
4. Plug the **AXDSPX-TY3 interface harness** to the **AXDSPX-TY3 interface**.
5. Download and install the **AX-DSP-XL app** for your smart device.
6. Open the app then select the **Bluetooth® Connection** tab. Follow the instructions to pair the mobile device to the interface. Refer to **Page 5** for more information.
7. Scroll to the **Configuration** tab then select the vehicle type. Press the **Lock Down\*\*** button to save the configuration. Refer to **Page 6** for more information.
8. Connect the amp turn-on wire.
9. Adjust the settings in the app as desired. Press the **Lock Down\*\*** button to save any new configurations.

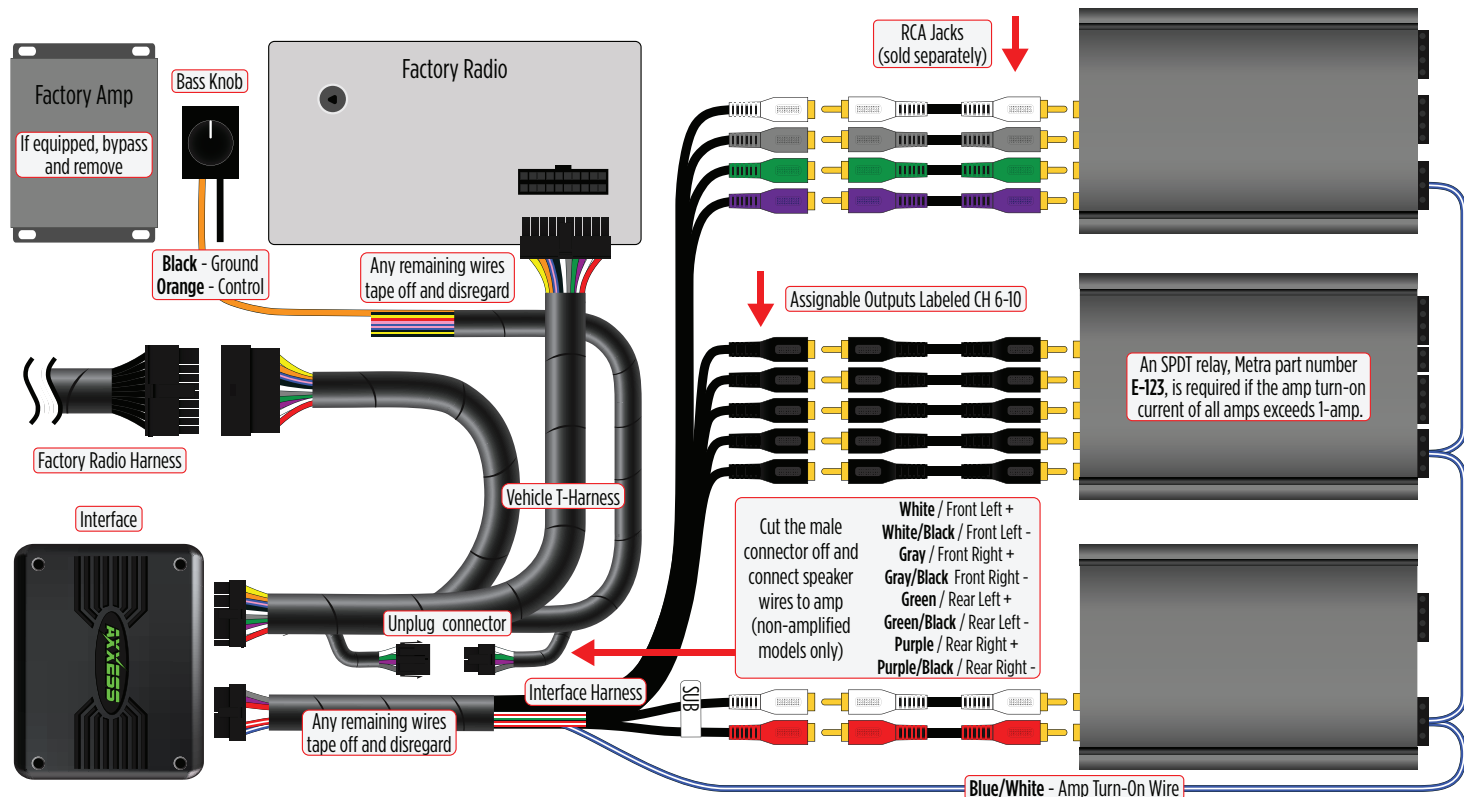
\* For dash disassembly instructions, refer to [metraonline.com](http://metraonline.com). Enter the year, make, and model of the vehicle in the Vehicle Fit Guide and find instructions under Metra Radio Install kits.

\*\* Anytime the interface is locked down the key must be cycled off then back on.

## ADDING A SUBWOOFER TO A FACTORY SYSTEM



## ADDING A FULL-RANGE AMP & SUBWOOFER TO A FACTORY SYSTEM



## AXDSP-X APP: QUICK SETUP STEPS THROUGH AX-DSP-XL APP

Android™ 9 or higher



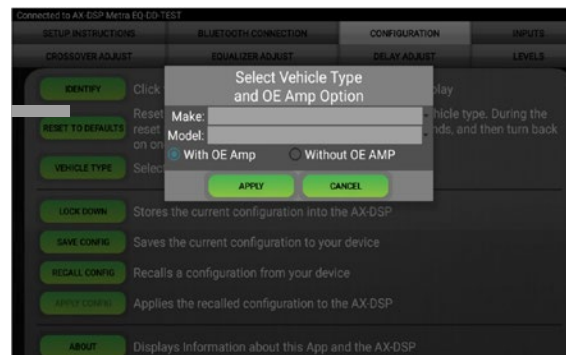
iOS® 12.1 or higher



1. Download and install the **AX-DSP-XL** app for your smart device.
2. Turn Vehicle Ignition on. Make sure the Remote Turn on lead is disconnected.
3. Open the app: Select **Bluetooth® Connections** page.
  - Select **Scan**, all available AXDSP devices within range will be displayed. Select your AXDSP and hit connect. (Figure A)
4. Select the Configuration page.
  - Select **Vehicle Type** Icon
  - Select the Vehicle Make: \_\_\_\_ (Example: **TOYOTA**)
  - Select the Vehicle's model: \_\_\_\_ (Example: **TACOMA**)
  - Select **With OE Amp** or **Without OE Amp**
  - Hit **Apply** (Figure B)
5. Make sure radio volume is all the way down.
6. Connect the amp turn-on wire from the **AXDSPX-TY3 T-harness** to the aftermarket amplifiers.



(Figure A)

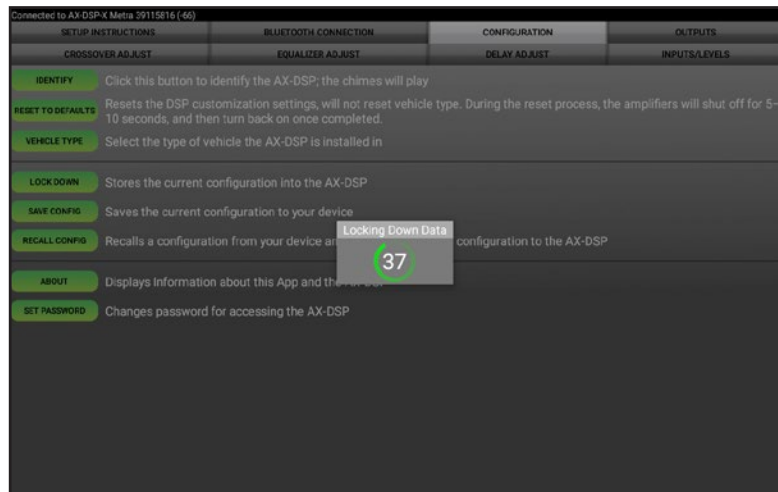


(Figure B)

## AXDSP-X APP: QUICK SETUP STEPS THROUGH AX-DSP-XL APP (CONT.)

- From the **Configuration** page click the **Identify** button to confirm that the **AXDSPX-TY3** is connected properly. If so, a chime will be heard from the front left speaker.
- Press the **Lock Down** button to save the configuration. (Do not turn ignition off until this process is completed) (Figure C)
- Select the **Bluetooth® Configurations** page and disconnect the DSPX.
- Turn ignition off, close all door then lock vehicle using the key fob. The vehicle will need to sit uninterrupted for 10 minutes while the vehicle goes to sleep. (Make sure Key fob is 15 feet away from the vehicle)
- Unlock Vehicle, turn ignition on and test radio's functions.
- Adjust the DSP settings in the app as desired. Refer to the instructions under the **Setup Instructions** tab, or online at [Axxessinterfaces.com](http://Axxessinterfaces.com) for an explanation of each tab in the app.

### Locking Down Data



(Figure C)

**Last and the most important:**  
**You MUST lock down your**  
**configuration and cycle the key!!!**

## SPECIFICATIONS

### Specifications

Input Impedance	1M Ohm
Input Channels	6 High/Low level Selectable
Input Options	High Level or Low Level
Input Type	Differential-Balanced
Input Voltage	
High Level Range	0 - 28v Peak to Peak
Low Level Range	0 - 4.9v Peak to Peak
Output Channels	10
Output Voltage	Up to 5v RMS
Output Impedance	50 Ohms
Equalizer Type	31 Band Graphic EQ, +/- 10dB
THD	<0.03%
Frequency Response	20Hz - 20kHz
Crossover	3-Way LPF, BPF, HPF THP per channel
Crossover Type	Linkwitz-Riley 24DB Slope, Fixed
Sampling	48kHz
S/N Ratio	105dB @ 5V RMS

### General

Operating Voltage	10 - 16VDC
Standby Current Draw	~7mA
Operation Current Draw	~150mA
Adjustments/Controls	Via AX-DSP-XL app
Remote Output	12VDC, Signal Sense or with Ignition



## AXDSPX-TY3

INSTALLATION INSTRUCTIONS

Having difficulties? We're here to help.



Contact our Tech Support line at:

**386-257-1187**



Or via email at:

[techsupport@metra-autosound.com](mailto:techsupport@metra-autosound.com)

### Tech Support Hours (Eastern Standard Time)

Monday - Friday: 9:00 AM - 7:00 PM

Saturday: 10:00 AM - 5:00 PM

Sunday: 10:00 AM - 4:00 PM



**Metra recommends MECP  
certified technicians**