# AXXESS

# AXDSPX-FD2 INSTALLATION INSTRUCTIONS



#### INTERFACE COMPONENTS

- AXDSPX-FD2 interface
- AXDSPX-FD2 interface harness
- AXDSPX-FD2 vehicle T-harness
- AXDSPX-FD2 display T-harness
- Bass knob

#### **APPLICATIONS**

Visit Axxessinterfaces.com for current application list

For **Dash Disassembly Instructions**, refer to metraonline.com. Enter the year, make, and model of the vehicle in the **Vehicle Fit Guide** for **Radio Install kits**.



# **DSP Interface with Pre-Wired Harness**

Fits Select Ford Models 2011–2023

#### **INTERFACE FEATURES**

- Designed for amplified and non-amplified systems
- Selectable 31-band Graphic EQ or 5-band parametric EQ on each channel with high pass, low pass, and bandpass filters
- 6 inputs and 10 individually assignable outputs
- Selectable slope (12, 24, 36, or 48db per octave)
- Selectable Graphic or Parametric EQ
- Independent equalization on each of the 10 outputs
- Each channel can be delayed independently up to 10 ms
- Clipping detection and limiting circuits
- Bass knob included
- Retains OE voice prompts (SYNC®) if vehicle is equipped
- Settings adjusted wirelessly in the free AX-DSP-XL app available for smartphones and tablets
- Easy behind the radio installation
- Can be used with factory and aftermarket radios
- Read, write, and store configurations for future recall
- Password protect feature available in the app
- · Micro "B" USB updatable

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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 AX-DSP-XL App

Android™ 9 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.

#### 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 nonamplified (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**)

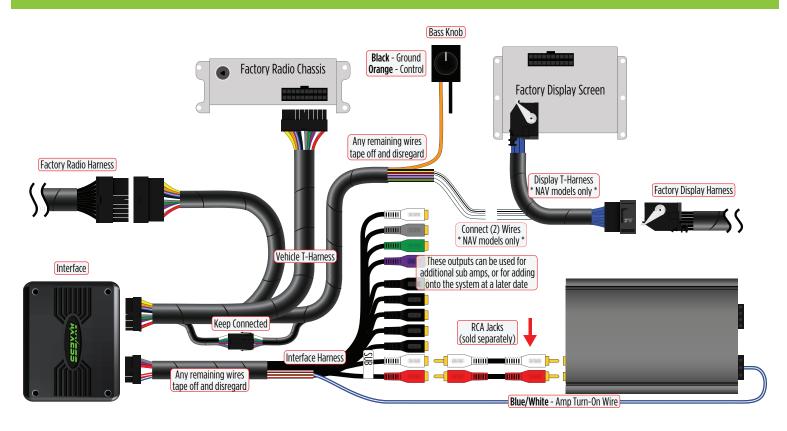
\* For amplified models the amp must be bypassed/unplugged, and **With 0E Amplifier** chosen in the **Configuration** tab under **Vehicle Type**.

**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.

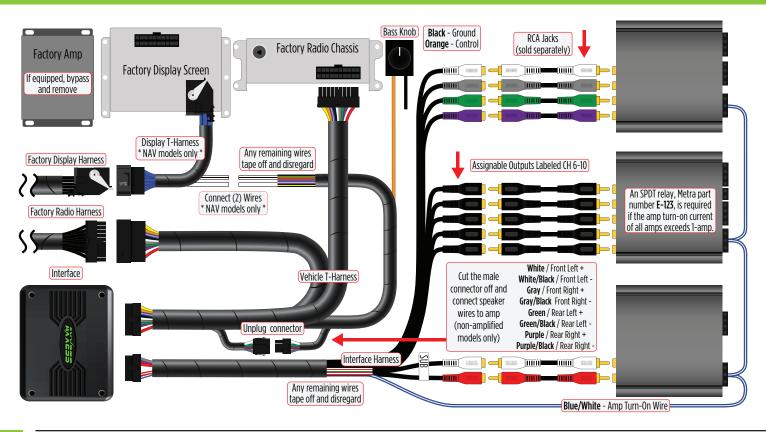
#### **INSTALLATION**

- **1.** Remove the factory radio\*, then unplug all connectors.
- Install the AX-DSPX-FD2 vehicle T-harness to the vehicle and make all necessary connections, but leave the amp turn-on wire disconnected.
- For NAV models only: Install the AXDSPX-FD2 display T-harness to the vehicle and make all necessary connections.
- 4. Plug the AX-DSPX-FD2 vehicle T-harness to the AX-DSPX-FD2 interface.
- **5.** Plug the **AX-DSPX-FD2 interface harness** to the **AX-DSPX-FD2 interface**.
- **6.** Download and install the **AX-DSP-XL app** for your smart device
- 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.
- 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.
- **9.** Connect the amp turn-on wire.
- 10. Adjust the settings in the app as desired. Press the Lock Down \*\* button to save any new configurations.
- \* Refer to metraonline.com for dash disassembly. If Metra makes a dash kit for the vehicle, disassembly will be within those instructions.
- \*\* 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**



## MOBILE APP: QUICK SETUP STEPS THROUGH AXDSP-XL APP

Android™ 9 or higher



iOS® 12.1 or higher



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)
- L. Select the Configuration page.
  - Select **Vehicle Type** Icon
  - Select the Vehicle Make: (Example: FORD)
  - Select the Vehicle's model: \_\_\_\_\_ (Example: F150)
  - 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-FD2 T-harness** to the aftermarket amplifiers.



(Figure A)



(Figure B)

# MOBILE APP: QUICK SETUP STEPS THROUGH AXDSP-XL APP (CONT.)

- 7. From the Configuration page click the Identify button to confirm that the AXDSPX-FD2 is connected properly. If so, a chime will be heard from the front left speaker.
- **8.** Press the **Lock Down** button to save the configuration. (Do not turn ignition off until this process is completed) (Figure C)
- **9.** Select the **Bluetooth Configurations** page and disconnect the DSPX.
- **10.** Turn ignition off, close all doors, 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)
- **11.** Unlock Vehicle, turn ignition on and test radio's functions.
- **12.** Adjust the DSP settings in the app as desired. Refer to the instructions under the **Setup Instructions** tab, or online at **Axxessinterfaces.com** for an explanation of each tab in the app.

### **Locking Down Data**

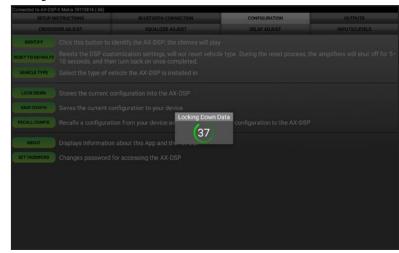


Figure C

Last and the most important:

You MUST lock down your configuration and cycle the key!!!

# **SPECIFICATIONS**

# **Specifications**

Input Impedance 1M 0hm

Input Channels 6 High/Low level Selectable
Input Options High Level or Low Level
Input Type Differential-Balanced
Input Voltage: High Level Range 0 - 28 -volts (Peak to Peak)
Input Voltage: Low Level Range 0 - 4.9-volts (Peak to Peak)

Output Channels 10

Output Voltage Up to 5-volts RMS

Output Impedance 50 Ohms

Equalizer Type 31 Band Graphic EQ, +/- 10dB

THD <0.03%

Frequency Response 20Hz - 20kHz

Crossover Type 3-Way LPF, BPF, HPF THP per channel Linkwitz-Riley 24DB Slope, Fixed

Sampling 48kHz

S/N Ratio 105dB @ 5-volts RMS

#### General

Operating Voltage 10 - 16-volts DC

Standby Current Draw ~7mA
Operation Current Draw ~150mA

Adjustments/Controls Application via Bluetooth®

Remote Output 12-volts DC (Signal Sense or with Ignition)



Having difficulties? We're here to help.



Contact our Tech Support line at: **386-257-1187** 



Or via email at: 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