



Ford **DSPL Interface** (for Non-Amplified Vehicles with Pre-Wired Harness) **2020-Up**

INTERFACE FEATURES

- Includes a DSP (Digital Signal Processor)
- Selectable 15 Band graphic EQ or 5 Band Parametric EQ
- 4 inputs and 6 individually assignable outputs
- Independent equalization for front, rear, and sub
- Selectable low pass, band pass, and high pass filters
- Selectable crossover slopes; 12db, 24db, 36db, 48db
- Each channel can be delayed independently up to 10ms
- Clipping detection and limiting circuits
- Designed for non-amplified models
- Easy behind the radio installation with pre-wired harness
- Internal header port for adding interface modules
- Bass knob included for level control of subwoofer amp
- Settings adjusted via Bluetooth[®] in a smart device application (tablet or mobile phone), compatible with both Android and Apple devices
- Read, write, and store configurations for future recall
- Password protect feature available in the mobile app
- USB Micro-B updatable

APPLICATIONS

Visit axxessinterfaces.com for current application list

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.



TABLE OF CONTENTS

Installation & Installation Options.....	2
Connections.....	3-4
AXDSPL-BT Installation.....	5
AXDSPL-SP Installation.....	6
Mobile App	7-8
Specifications	9

TOOLS & INSTALLATION ACCESSORIES REQUIRED

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

INTERFACE COMPONENTS

- AXDSPL-FD3 interface
- AXDSPL-FD3 interface harness
- AXDSPL-FD3 vehicle T-harness
- Bass knob

Google Play Store



Apple App Store

iOS 12.1 or higher



INSTALLATION OPTIONS

Adding a subwoofer to a factory system:

The diagram on **Page 3** shows the connections that need to be made to add a subwoofer to the factory system. **Note:** RCA jacks sold separately.

Adding a full-range of amps & subwoofer to a factory system:

The diagram on **Page 4** shows the connections that need to be made to add: Subwoofer (RCA jacks sold separately).

Amplifier (SPDT relay **E-123** required) or Additional Amp (RCA jacks sold separately).

16-pin header port:

Inside the interface is a 16-pin header port for adding optional modules (sold separately). Pages 5 and 6 will show the installation and use of these modules.

- **AXDSPL-BT** - Bluetooth streaming interface
- **AXDSPL-SP** - Toslink digital output

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.

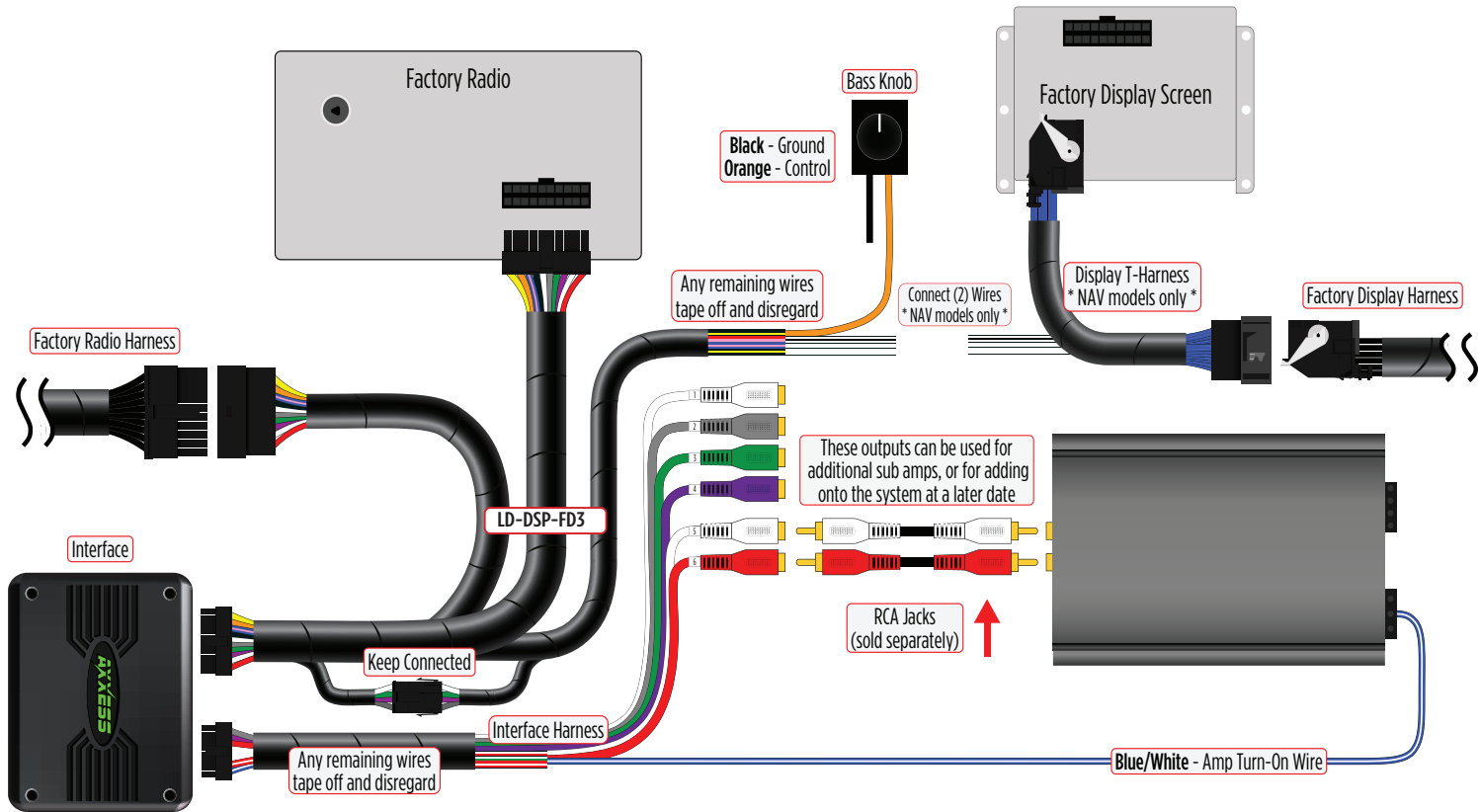
INSTALLATION

1. Disassemble the dash, unplug all connectors, and then remove the factory radio. †
2. Install the **AXDSPL-FD3 vehicle T-harness** to the vehicle and make all necessary connections, but leave the amp turn-on wire disconnected.
3. Plug the **AXDSPL-FD3 vehicle T-harness** to the **AXDSPL-FD3 interface**.
4. Plug the **AXDSPL-FD3 interface harness** to the **AXDSPL-FD3 interface**.
5. Download and install the **AX-DSP-XL app** from the **Google Play Store** or **Apple App Store**.
6. Cycle the ignition on.
7. Open the app then select the **Bluetooth Connection** tab. Follow the instructions to pair the mobile device to the interface. Refer to [page 7](#) for more information.
8. Scroll to the **Configuration** tab then select the vehicle type. Press the **Lock Down ‡** button to save the configuration. Refer to [page 8](#) 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.

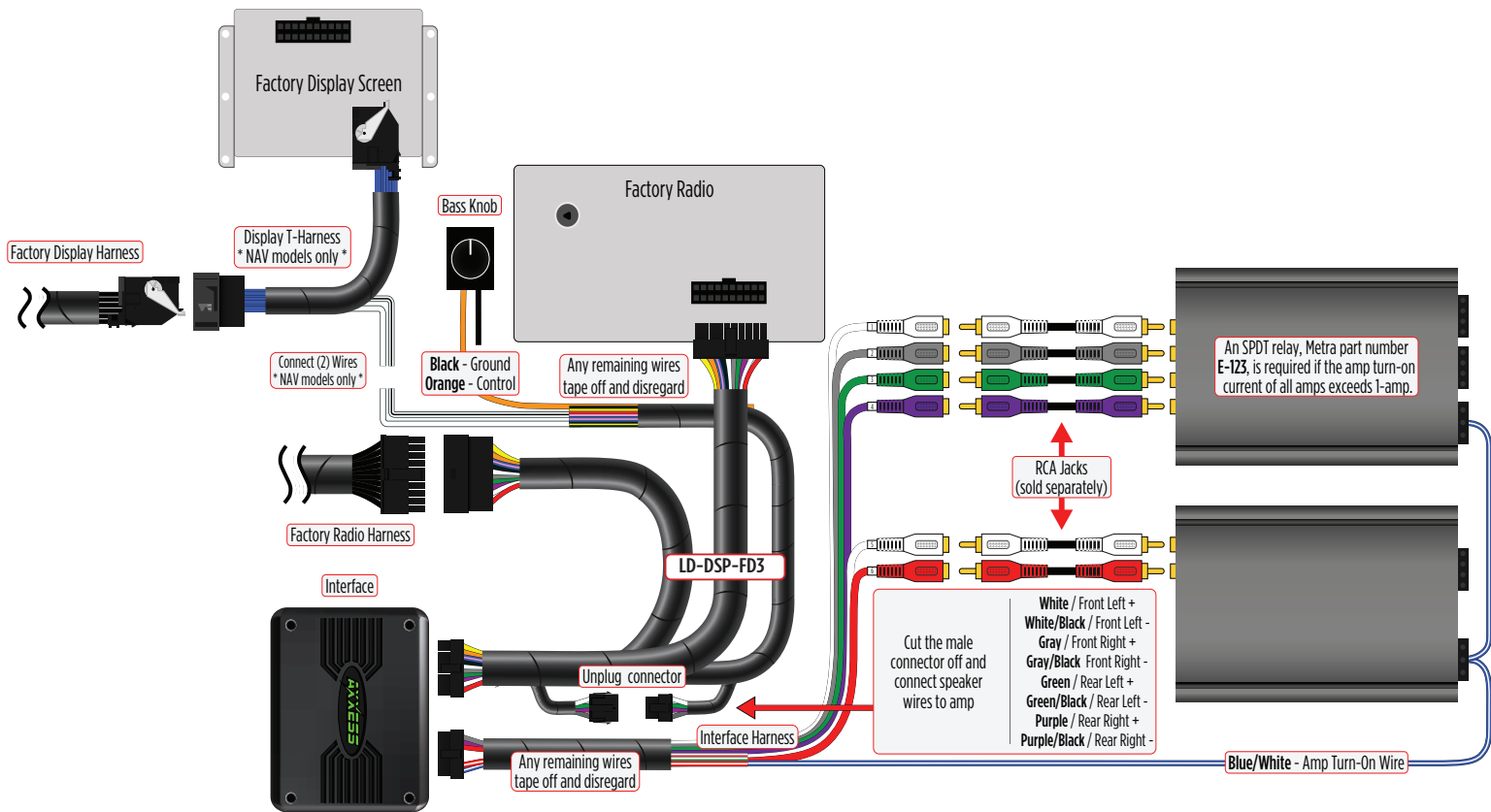
† For dash disassembly instructions, refer to metraonline.com. Enter the year, make, and model of the vehicle in the Vehicle Fit Guide and find instructions under Metra Radio Install kits.

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

ADDING A SUB TO A FACTORY SYSTEM

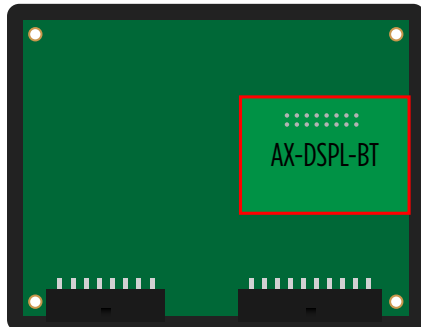
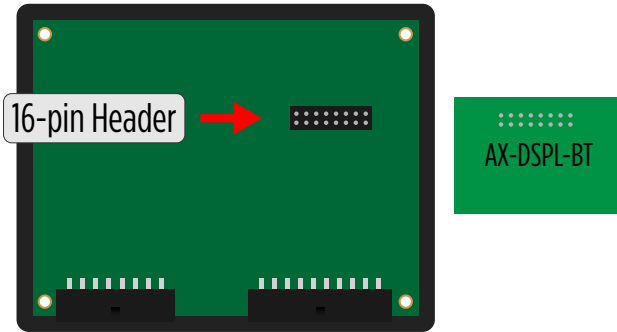


ADDING A FULL-RANGE AMP & SUB TO A FACTORY SYSTEM



BLUETOOTH STREAMING INTERFACE

(OPTIONAL INSTALLATION, ADDITIONAL PART SOLD SEPARATELY)



- The **AXDSPL-BT** Bluetooth streaming interface can be used to stream media directly to the interface.
- While streaming media the volume on the phone will be used. As an option, the **AXBK-1** (sold separately) can be used to control the volume.
Note: The bass knob included with the **AXDSPL-FD3** can be used if it will not be used to control a subwoofer.

1. **Important!** Unplug the interface from the vehicle.
2. Remove (4) Phillips screws securing the interface, then remove the top cover, exposing the circuit board within.
3. Locate the 16-pin header on the circuit board.
4. **Important!** Referencing how the **AXDSPL-BT** is laid out in the picture, carefully line up the header pins to the interface. Gently press down to secure.
Note: Both interfaces may be damaged if installed incorrectly.
5. Re-secure the top cover using the (4) Phillips screws previously removed to complete the installation.

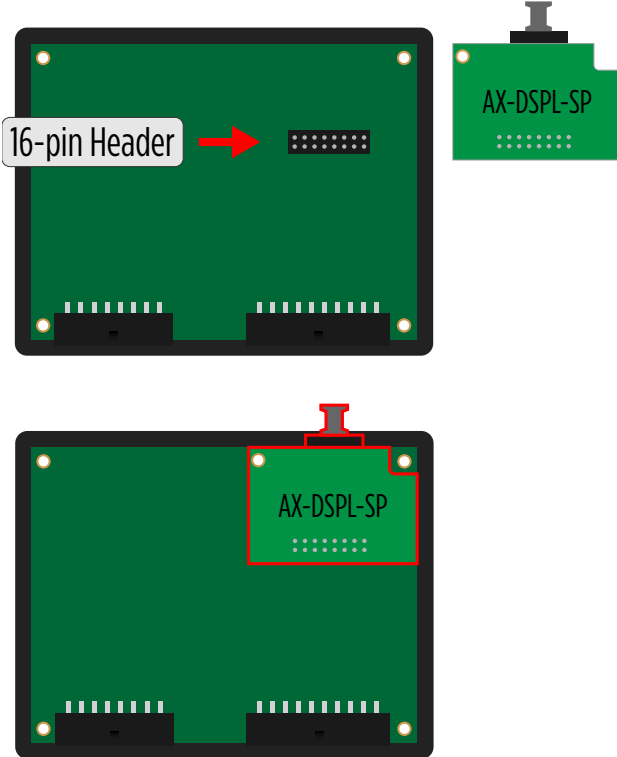
AXBK-1 Installation:

6. Connect the **Brown** wire from the interface to the **Orange** wire from the **AXBK-1**. Ground the **Black** wire from the **AXBK-1** to the chassis.

Continued on the next page

TOSLINK DIGITAL OUTPUT

(OPTIONAL INSTALLATION, ADDITIONAL PART SOLD SEPARATELY)



- The **AXDSPL-SP** Toslink digital output can be used for adding a digital output to the interface.
1. **Important!** Unplug the interface from the vehicle.
 2. Remove (4) Phillips screws securing the interface, then remove the top cover, exposing the circuit board within.
 3. Locate the 16-pin header on the circuit board.
 4. **Important!** Carefully line up the header pins to the **AXDSPL-SP**, with the Toslink port facing outward. Gently press down to secure.
- Note:** Both interfaces may be damaged if installed wrong.
5. Re-secure the top cover provided with the **AXDSPL-SP** using the (4) Phillips screws previously removed to complete the installation.

Continue to Mobile App

QUICK SETUP STEPS THROUGH AXDSP-XL APP

Google Play Store

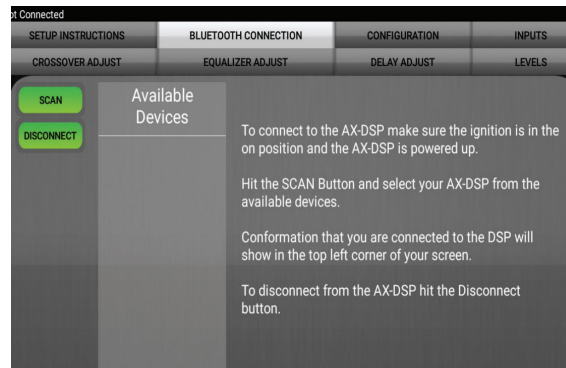


Apple App Store

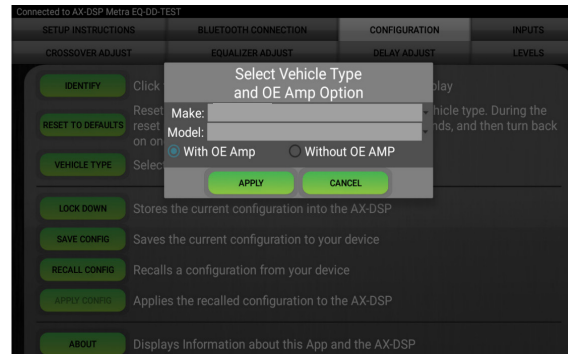
iOS 12.1 or higher



1. Download and install the AXDSP-XL app from the **Google Play Store** or **Apple App Store**.
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: **FORD**)
 - Select the Vehicle's model: _____ (Example: **F150**)
 - Select **With 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 **AXDSPL-FD3 T-harness** to the aftermarket amplifiers.



(Figure A)

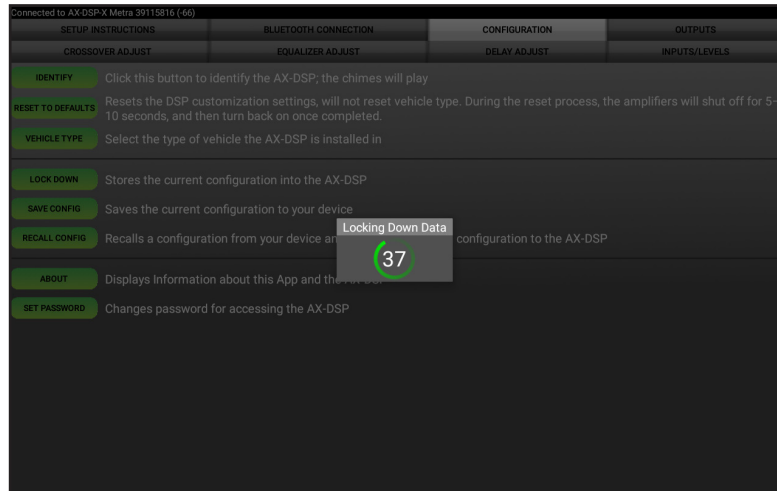


(Figure B)

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

- From the **Configuration** page click the **Identify** button to confirm that the **AXDSP-FD3** 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 DSPL.
- 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 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

Input Impedance	1M Ohm	Crossover Filter	Low pass, band pass, high pass
Input Channels	6	Crossover Frequency	Selectable 20hz to 20khz
Input Options	High Level or Low Level	Crossover Slope	12db/24db/36db/48db
Input Type	Differential balanced	Crossover Type	Linkwitz-Riley
Input Voltage (high level range)	0 - 28-volts (peak-to-peak)	Sampling	48kHz
Input Voltage (low level range)	0 - 4.9-volts (peak-to-peak)	S/N Ratio	105dB @ 5-volts RMS
Output Channels	6	Operating Voltage	10-16 volts DC
Output Voltage	Up to 5-volts RMS	Standby Current Draw	7mA
Output Impedance	50 Ohms	Operation Current Draw	150mA
Equalizer Type	15 Band Graphic EQ, +/- 10dB	Adjustments/Controls	Application via Bluetooth
THD	<0.03%	Remote Output	12 volts DC (signal sense) or ignition on
Frequency Response	20Hz - 20kHz		



Lined writing area on the left page, consisting of 18 horizontal lines.



Lined writing area on the right page, consisting of 18 horizontal lines.



AXDSPL-FD3

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

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**