AXXESS"





INTERFACE COMPONENTS

- AXDSPX-ETH1 interface
- AXDSPX-ETH1 harness
- LD-DSP-ETH1
- LD-DSP-ETH2

- AXBK-1
- LD-ETH-ADAPT harness
- Amplifier bypass harness (female connectors: 8-pin black, 20-pin green)

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**.



Bose®/DSP Data Interface with Amplifier Bypass Harness

Fits Select General Motors Models **2019–UP**

FEATURES & SPECIFICATIONS

- Designed for Ethernet amplifiers
- 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
- · Chime control for GM vehicles
- Clipping detection and limiting circuits
- · Bass knob included
- Retains OE voice prompts (OnStar®) if vehicle is equipped
- Retains factory chimes, including parking sensor and cross path detection alerts if vehicle is equipped
- Settings adjusted wirelessly in the free AX-DSP-XL app available for smartphones and tablets
- To be used with factory 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 REQUIRED

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

Download the AX-DSP-XL App

Android™ 9 or higher

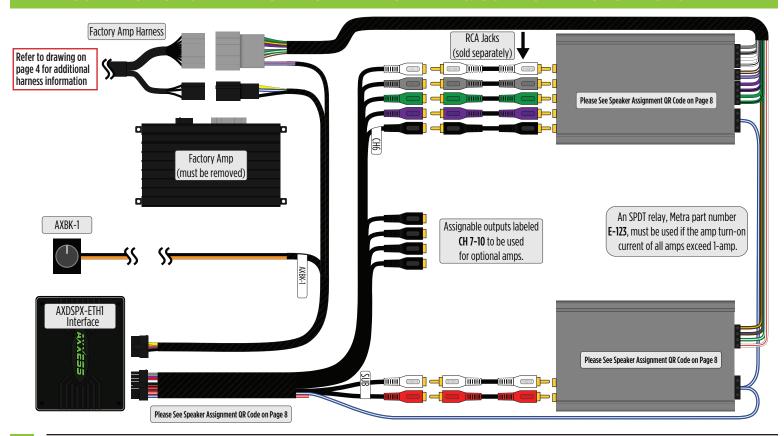




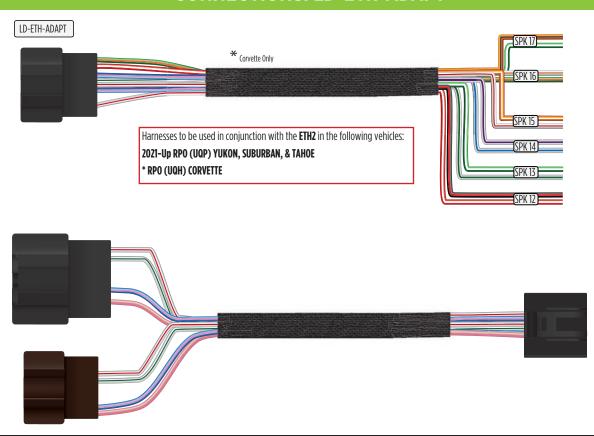
ATTENTION: With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections, especially the air bag indicator lights, are plugged in before reconnecting the battery or cycling the ignition to test this product.

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

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



CONNECTIONS: LD-ETH-ADAPT



INSTALLATION

- **L** Locate the factory amp (†), unplug all connectors, then remove the amp.
- Install the AXDSPX-ETH1 harness and make all necessary connections, but leave the amp turn-on wire disconnected.
- Plug the 8-pin and 16-pin connectors from the AXDSPX-ETH1 harness into the AXDSPX-ETH1 interface.
- **4.** Download and install the **AX-DSP-XL** app for your smart device.
- Open the app and follow the instructions on the Bluetooth Connection tab to pair the mobile device to the AXDSPX-ETH1. (Figure A)
- Scroll to the Configuration tab then select the vehicle type. Press the Lock Down button to save the configuration. (Figure B)
- 7. Connect the amp turn-on wire from the AXDSPX-ETH1 harness.
- Click the Identify button to confirm that the AXDSPX-ETH1 is connected properly. If so, a chime will be heard from the front left speaker or gauge cluster. Test all functions of the installation for proper operation.
- 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.



(Figure A)



(Figure B)

QUICK SETUP STEPS THROUGH AX-DSP-XL APP

Android™ 9 or higher



iOS® 12.1 or higher



- Download and install the **AX-DSP-XL app** for your smart device.
- Turn Vehicle Ignition on. Make sure the Remote Turn on lead is disconnected.
- 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)
- Select the Configuration page.
 - Select **Vehicle Type** Icon
 - Select the Vehicle Make:
 - Select the Vehicle's model:
 - Select With OE Amp
 - Hit **Apply** (Figure B)
- Make sure radio volume is all the way down.
- Connect the amp turn-on wire from the **AXDSPX-ETH1** harness to the aftermarket amplifiers.

(Figure B)

AXDSPX-ETH1 is connected properly. If so, a chime will be heard from the front left speaker.

7. From the **Configuration** page click the **Identify** button to confirm that the

- 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 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)
- 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.



(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

Input Voltage

Low Level Range 0 - 4.9v Peak to Peak

Ouput 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

Crossover3-Way LPF, BPF, HPF THP per channelCrossover TypeLinkwitz-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 Application via Bluetooth®

Remote Output 12VDC, Signal Sense or with Ignition

TROUBLESHOOTING

If the **Red** light in the **AXDSPX-ETH1** interface is blinking 2 or 3 times every 5 seconds, it is not communicating with the vehicle properly. Remove the key from the ignition, unplug the connectors from the interface, then inspect all connections made. If everything is proper, connect the harnesses back into the interface, cycle the key to ignition, then re-inspect. The **Red** light should blink once every 5 seconds.

LED FEEDBACK

BLINK RATE	CONDITION/STATUS
1 Blink Every 5 Seconds	ALL GOOD
2 Blinks Every 5 Seconds	MISSING ETHERNET FRAMES
3 Blinks Every 5 Seconds	MISSING CAN FRAMES





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

Visit **AxxessInterfaces.com** for more detailed information about the product and up-to-date vehicle specific applications





Metra recommends MECP certified technicians