GM **DSP Interface With Pre-Wired Harness**
2021-Up

INTERFACE FEATURES

- Designed for non-amplified models
- Includes a DSP (Digital Signal Processor)
- 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 bandpass filters
- Each channel can be delayed independently up to 10ms
- Clipping detection and limiting circuits
- Retains factory parking sensor chimes
- Retains OnStar® voice prompts
- Adjustable chime level
- Easy behind the radio installation with pre-wired harness
- 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
- Micro-B USB updatable

APPLICATIONS

Visit **Axxessinterfaces.com** for current application list

TABLE OF CONTENTS

INTERFACE COMPONENTS

- AXDSPX-GM32 interface
- AXDSPX-GM32 output harness (LD-AX-DSP-OUT2)
- AXDSPX-GM32 vehicle T-harness (LD-DSP-GM32)
- Resistor Pad (LD-DSP-RPAD2)
- Bass knob (LD-BASSKNOB)

TOOLS & INSTALLATION ACCESSORIES REQUIRED

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

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.

Adding a sub to a factory system:

This feature offers the ability to add a subwoofer to a factory system. (refer to page 3)
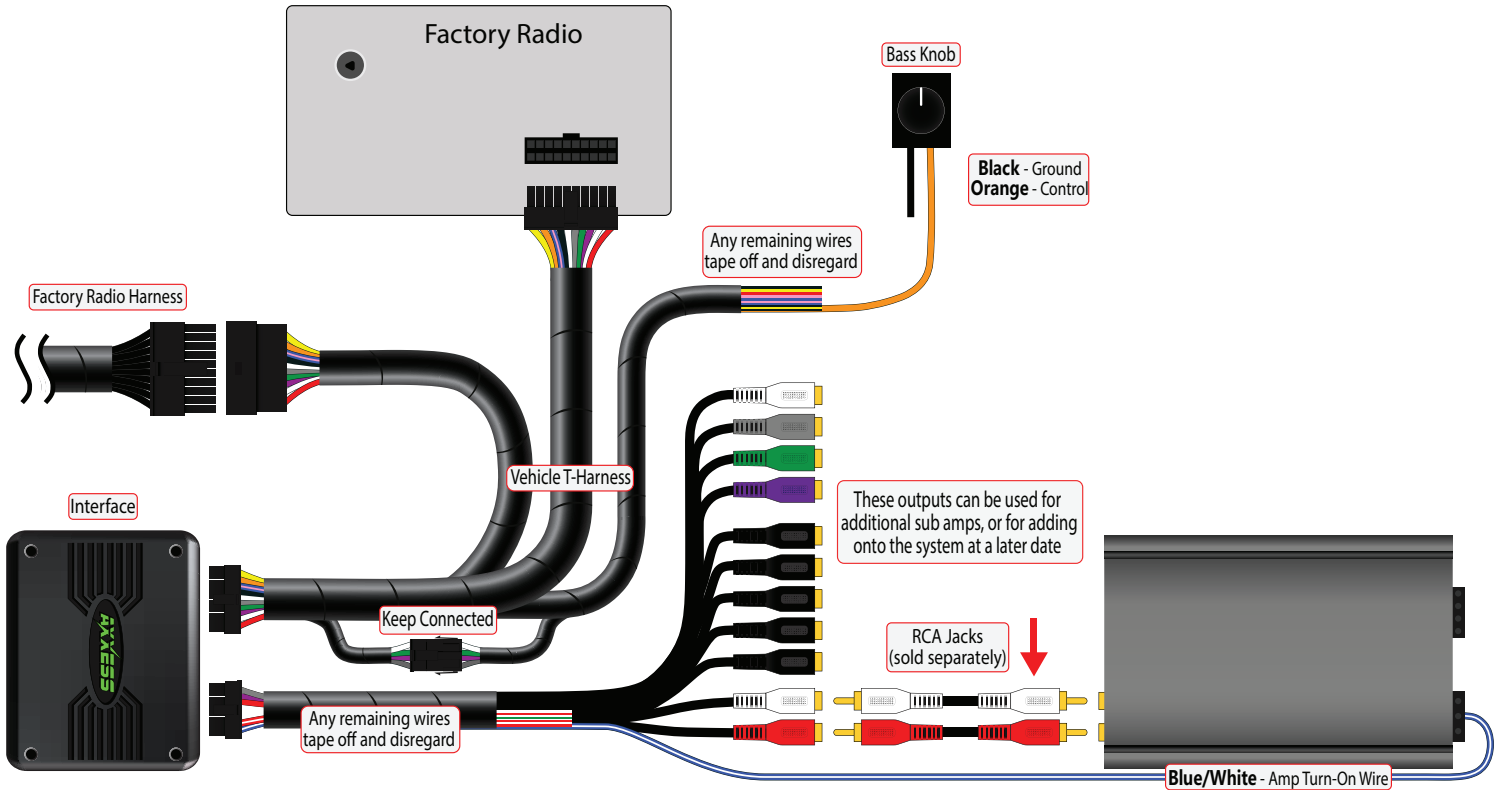
Adding a full-range amp & sub to a factory system:

This feature offers the ability to add a full-range amp and sub to a factory system. (refer to page 4)

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.
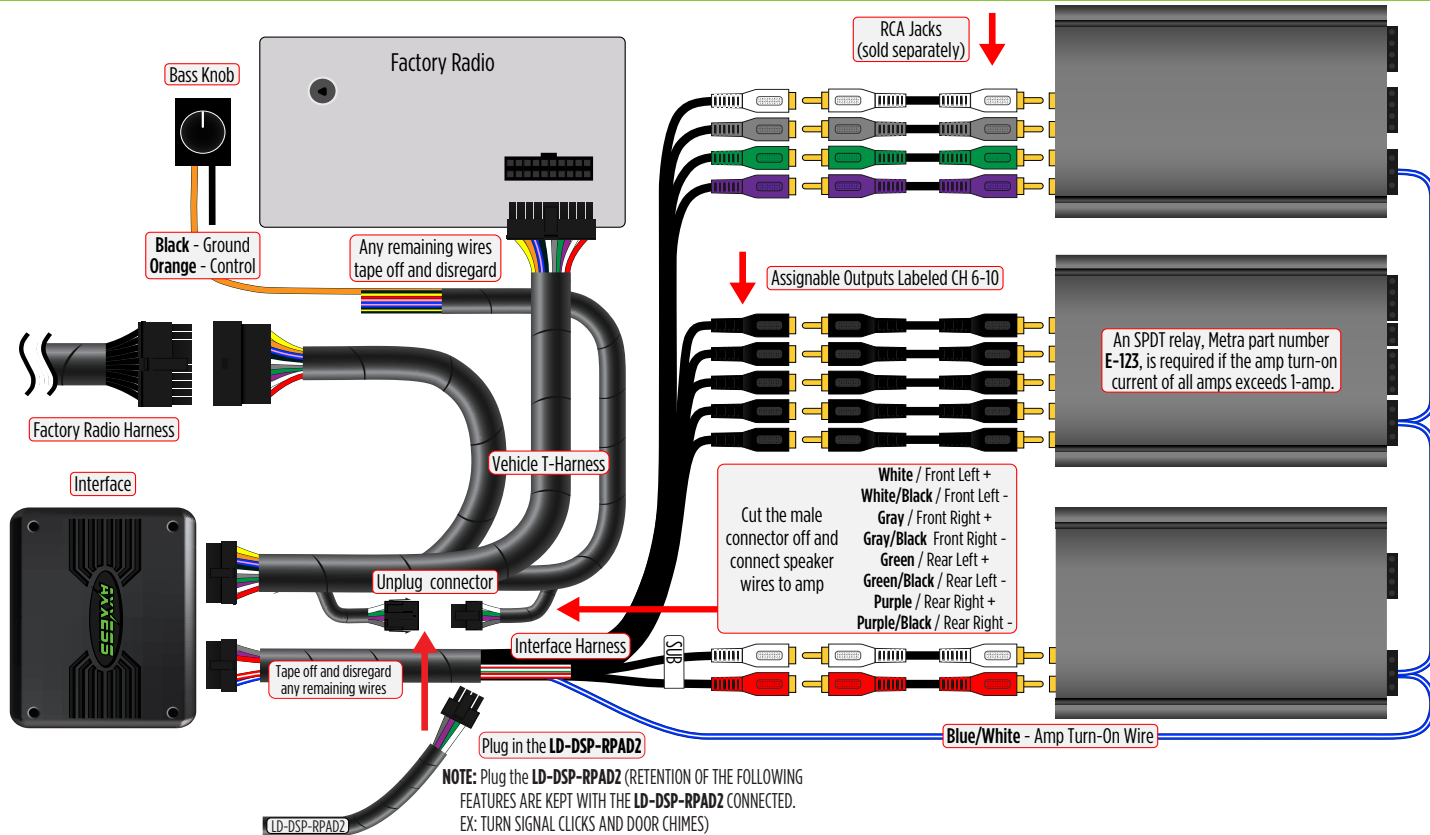
1. Remove the factory radio [†], then unplug all connectors.

2. Install the **AXDSPX-GM32 vehicle T-harness** to the vehicle and make all necessary connections, but leave the amp turn-on wire disconnected.

3. Plug the **AXDSPX-GM32 vehicle T-harness** to the **AXDSPX-GM32 interface**.

4. Plug the **AXDSPX-GM32 interface harness** to the **AXDSPX-GM32 interface**.

5. Download and install the AXDSP-X app from the **Google Play Store** or **Apple App Store**.

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.

[†] Refer to Metraonline 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

Factory Radio

Bass Knob

Black - Ground
Orange - Control

Any remaining wires
tape off and disregard

Factory Radio Harness

Vehicle T-Harness

These outputs can be used for
additional sub amps, or for adding
onto the system at a later date

Interface

Keep Connected

RCA Jacks
(sold separately)

Any remaining wires
tape off and disregard

Blue/White - Amp Turn-On Wire

Bass Knob

Factory Radio

RCA Jacks
(sold separately)

Black - Ground
Orange - Control

Any remaining wires
tape off and disregard

Factory Radio Harness

Interface

Vehicle T-Harness

Unplug connector

Interface Harness

SUB

Assignable Outputs Labeled CH 6-10

An SPDT relay, Metra part number
E-123, is required if the amp turn-on
current of all amps exceeds 1-amp.

Cut the male
connector off and
connect speaker
wires to amp

White / Front Left +
White/Black / Front Left -
Gray / Front Right +
Gray/Black Front Right -
Green / Rear Left +
Green/Black / Rear Left -
Purple / Rear Right +
Purple/Black / Rear Right -

Tape off and disregard
any remaining wires

Plug in the **LD-DSP-RPAD2**

NOTE: Plug the **LD-DSP-RPAD2** (RETENTION OF THE FOLLOWING
FEATURES ARE KEPT WITH THE **LD-DSP-RPAD2** CONNECTED.
EX: TURN SIGNAL CLICKS AND DOOR CHIMES)

LD-DSP-RPAD2

Blue/White - Amp Turn-On Wire

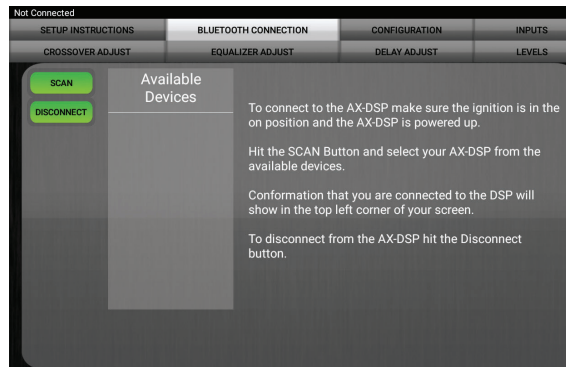# QUICK SETUP STEPS THROUGH AXDSP-XL APP
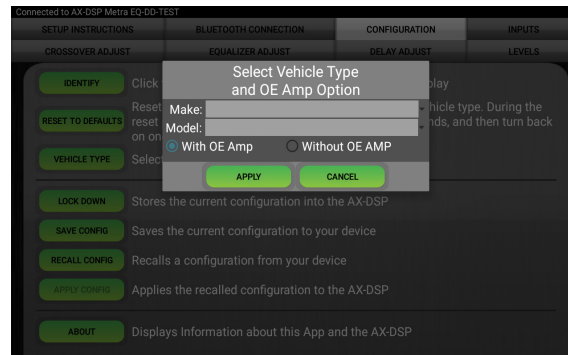
Google Play Store

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: **GMC**)
   - Select the Vehicle's model: _____ (Example: **Sierra 1500**)
   - 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 **AXDSPX-GM32 T-harness** to the aftermarket amplifiers.
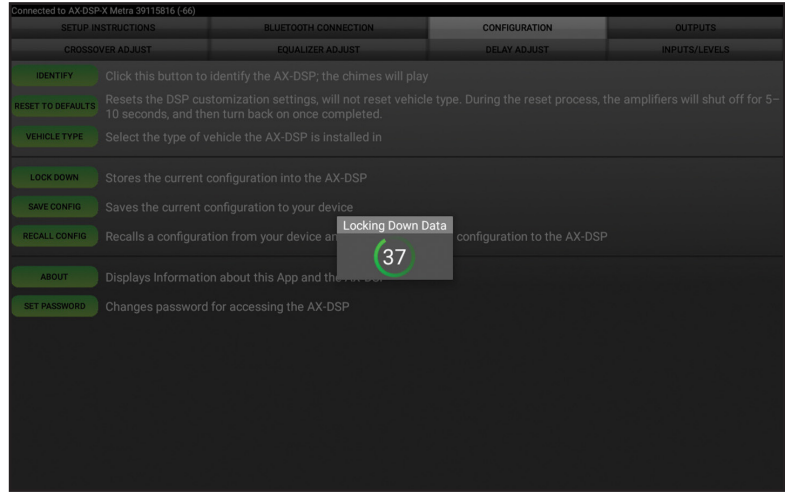
(Figure A)

(Figure B)

7. From the **Configuration** page click the **Identify** button to confirm that the **AXDSPX-GM32** 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 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.

Locking Down Data

(Figure C)

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

Input Impedance	1M Ohm		Operating Voltage	10-16 volts DC
Input Channels	6		Standby Current Draw	7mA
Input Options	High Level or Low Level		Operation Current Draw	150mA
Input Type	Differential balanced		Adjustments/Controls	Application via Bluetooth
Input Voltage (high level range)	0 - 28-volts (peak-to-peak)		Remote Output	12 volts DC (signal sense or with ignition
Input Voltage (low level range)	0 - 4.9-volts (peak-to-peak)			
Ouput 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	3-Way LPF, BPF, HPF THP per channel			
Crossover Type	Linkwitz-Riley 24db slope			
Sampling	48kHz			
S/N Ratio	105dB @ 5-volts RMS			

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**

mobile electronics
certification program