

AXDSPL-HK2 INSTALLATION INSTRUCTIONS



INTERFACE COMPONENTS

- AXDSPL-HK2 interface
- LD-DSP-HYKIA2 interface harness
- AXDSPL-HK2 amp bypass harness
- AXBK-1 (bass knob)

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.



www.MetraOnline.com

Hyundai/Kia DSP Interface With Amp Bypass Harness 2011-2016

INTERFACE FEATURES

- Includes a DSP (Digital Signal Processor)
- 15 Band graphic 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
- · Retains BlueLink/UVO voice prompts, with adjustable level
- Designed for SPDIF amplified models
- Includes an amp bypass 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
- Micro-B USB updatable

TABLE OF CONTENTS

Connections	2
Installation	3
AXDSPL-BT Installation	4
AXDSPL-SP Installation	5
Mobile App	6-7
Specifications /Speaker Assignment QR cod	

TOOLS & INSTALLATION ACCESSORIES REQUIRED

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

APPLICATIONS

Visit AxxessInterfaces.com for current application list

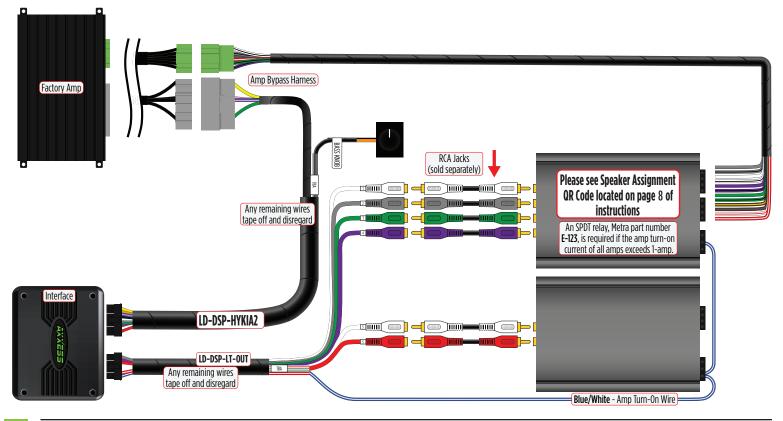
Google Play Store







CONNECTIONS



INSTALLATION

- 1. Locate the factory amp. Unplug and remove the amp.
- 2. Install the AXDSPL-HK2 amp bypass harness to the vehicle and make all necessary connections, but leave the amp turn-on wire disconnected.
- 3. Connect the AXDSPL-HK2 amp bypass harness to the AXDSPL-HK2 interface.
- 4. Connect the AXDSPL-HK2 interface harness to the AXDSPL-HK2 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 <u>page 8</u> 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 9 for more information.
- 9. Connect the amp turn-on wire.
- * Refer to <u>Metra online</u> 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.
- **10.** Click the **Identify** button to confirm the interface is connected properly. A chime will be heard from the front left speaker. Test all functions of the installation for proper operation.

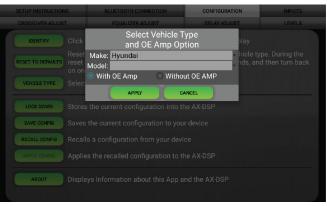
Note: The outputs may need to be configured within the **Outputs** tab.

- **11.** Adjust the settings in the app as desired. Press the **Lock Down** ‡ button to save any new configurations.
 - ‡ Anytime the interface is locked down the key must be cycled off then back on

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.

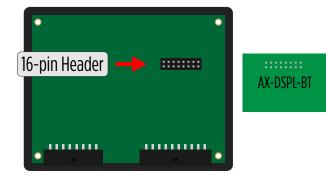
SETUP INSTRUCTIONS	BLUETOOTH CONNECTION	CONFIGURATION	INPUTS
CROSSOVER ADJUST	EQUALIZER ADJUST	DELAY ADJUST	LEVELS
JUAN	on position and Hit the SCAN Bu available device Conformation th show in the top	e AX-DSP make sure the the AX-DSP is powered up itton and select your AX-E s. Isat you are connected to t left corner of your screen om the AX-DSP hit the Di	o. DSP from the he DSP will

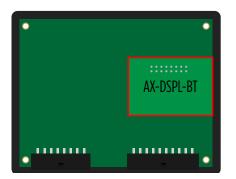
(Figure A)





BLUETOOTH STREAMING INTERFACE





- 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-HK2** 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 wrong.

5. Reinstall the top cover to complete the installation.

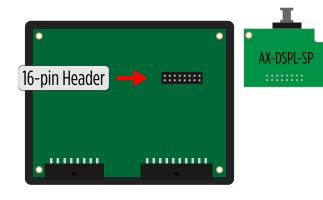
AXBK-1 Installation:

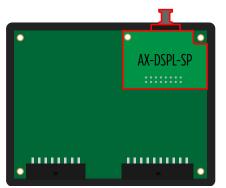
6. Connect the **Brown** wire from the interface to the **Orange** wire from the **AXBK-1**. Ground the **Black** wire from the **AXBK-1**.

Continued on the next page



TOSLINK DIGITAL OUTPUT





- 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. Reinstall the top cover provided with the **AXDSPL-SP** to complete the installation.

QUICK SETUP STEPS THROUGH AXDSP-XL APP

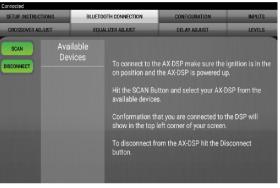
Google Play Store

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

Apple App Store

iOS 12.1 or higher

- **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: **Hyundai**)
 - Select the Vehicle's model: _____ (Example: Genesis)
 - 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-HK2 harness** to the aftermarket amplifiers.







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

- 7. From the **Configuration** page click the **Identify** button to confirm that the **AXDSPL-HK2** 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.
- 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

	BLUETOOTH CONNECTION	CONFIGURATION	
			INPUTS/LEVELS
IDENTIFY Click this butto			
YEHICLE TYPE Select the type			
LOCK DOWN Stores the curr			
SAVECONFIG Saves the curr	ent configuration to your device		
Recall config	guration from your device an	ta configuration to the AX-DSP	
ABOUT Displays Inform	nation about this App and the area of		
SET PASSWORD Changes pass			
(Figure C)	المعلم المعام الم	a at immantants	

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





Contact our Tech Support line at:

techsupport@metra-autosound.com

Input Impedance Input Channels Input Options Input Type Input Voltage (high Ievel range) Input Voltage (low Ievel range) Ouput Channels Output Voltage Output Impedance Equalizer Type THD Frequency Response

SPECIFICATIONS

1M Ohm 6 High Level or Low Level Differential balanced 0 - 28-volts (peak-to-peak) 0 - 4.9-volts (peak-to-peak) 6 Up to 5-volts RMS 50 Ohms 15 Band Graphic EQ, +/- 10dB <0.03% 2 OHz - 20kHz Crossover Filter Crossover Frequency Crossover Slope Crossover Type Sampling S/N Ratio Operating Voltage Standby Current Draw Operation Current Draw Adjustments/Controls Remote Output

Speaker Assignment



Visit <u>AxxessInterfaces.com</u> for more detailed information about the product and up-to-date vehicle specific applications

Application via Bluetooth

12 volts DC (signal sense

or with ignition

Low pass, band pass, high pass

Selectable 20hz to 20khz

12db/24db/36db/48db

105dB @ 5-volts RMS

Linkwitz-Rilev

10-16 volts DC

48kH7

7mA

150mA

Tech Support Hours (Eastern Standard Time)

Having difficulties? We're here to help.

386-257-1187

Or via email at:

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