

#### INTERFACE COMPONENTS

- AXDSPL-HN3 interface
- AXDSPL-HN3 interface harness
- AXDSPL-HN3 amp bypass harness

#### **APPLICATIONS**

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# Honda DSP Interface With Amp Bypass Harness 2016–Up

#### 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
- Designed for amplified models
- Includes an amp bypass harness
- Internal header port for adding interface modules
- Retains level control of subwoofer through the factory radio
- 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

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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

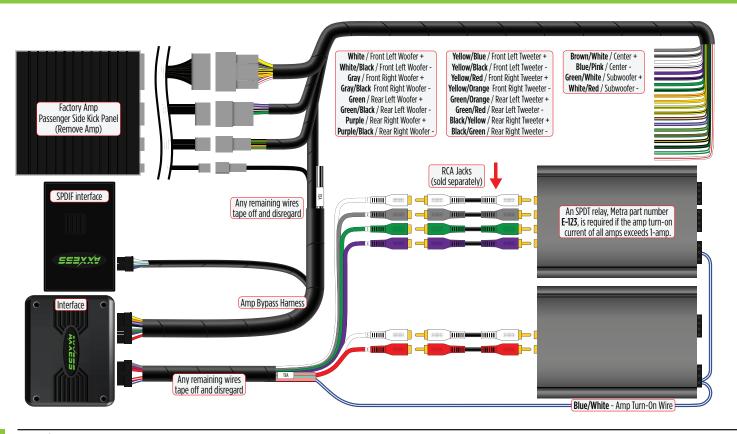
## **Google Play Store**



# Apple App Store



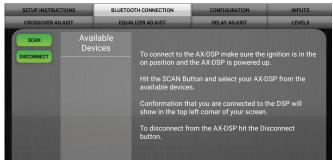
#### **CONNECTIONS**



#### **INSTALLATION**

- 1. Locate the factory amp in the passenger side kick panel. Unplug and remove the amp.
- Install the AXDSPL-HN3 amp bypass harness to the vehicle and make all necessary connections, but leave the amp turn-on wire disconnected.
- 3. Connect the AXDSPL-HN3 amp bypass harness to the AXDSPL-HN3 interface.
- 4. Connect the AXDSPL-HN3 interface harness to the AXDSPL-HN3 interfaces.
- 5. Download and install the **AX-DSP-XL app** from the **Google Play Store** or **Apple App Store**.
- 6. Cycle the ignition on.
- 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. (Figure A)
- **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. (Figure B)
- **9.** Connect the amp turn-on wire.
- **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.
- 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.

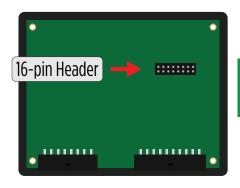


(Figure A)

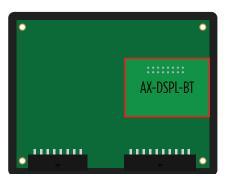


(Figure B)

#### **BLUETOOTH STREAMING INTERFACE**





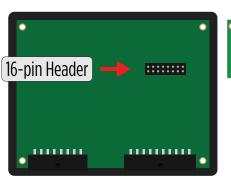


- The AXDSPL-BT Bluetooth streaming interface can be used to stream media directly to the interface.
- While streaming media the volume on the phone will be used. As an option, the AXBK-1 (sold separately) can be used to control the volume.
- **1. Important!** Unplug the interface from the vehicle.
- 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.

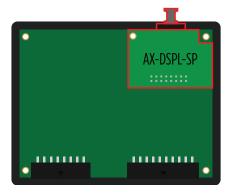
**Note:** Both interfaces may be damaged if installed wrong.

**5.** Reinstall the top cover to complete the installation.

## **TOSLINK DIGITAL OUTPUT**







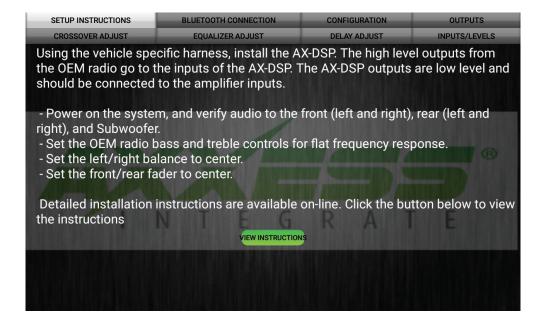
- The **AXDSPL-SP** Toslink digital output can be used for adding a digital output to the interface.
- **1. Important!** Unplug the interface from the vehicle.
- Remove (4) Phillips screws securing the interface, then remove the top cover, exposing the circuit board within.
- **3.** Locate the 16-pin 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.

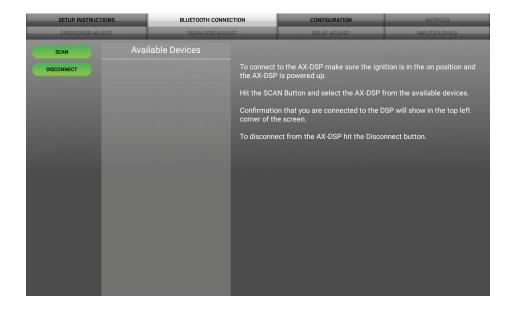
#### **MOBILE APP**

# **Setup Instructions**



General information tab for installing the interface.

## **Bluetooth Connection**

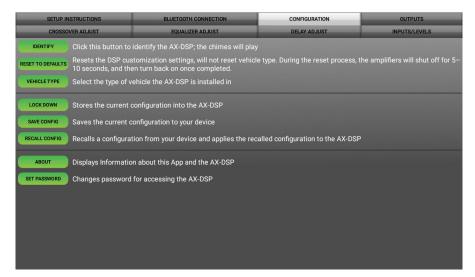


• **Scan** - Press this button to start the Bluetooth pairing process, then select the interface once it is found. "Connected" will appear in the top left corner of the app once paired.

**Note:** The ignition must be cycled on during this process.

• **Disconnect** - Disconnects the interface from the app.

# Configuration

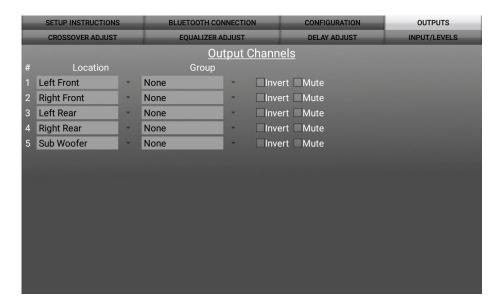


- Identify Click this button to send a test tone to the front left speaker.
- Reset to Defaults Resets the interface to factory settings. During the reset process the amp(s) will shut off for 5-10 seconds.
- **Vehicle Type** Select the vehicle type from the drop down box, then click the apply button.
- **Lock Down** Click this button to save the selected settings.
  - **Attention!** This must be done before closing the app or cycling the ignition off otherwise all new changes will be lost!
- Save Configuration Saves the current configuration to the mobile device.

- **Recall Configuration** Recalls a configuration from the mobile device.
- **About** Displays information about the app, vehicle, interface, and mobile device.
- Set Password Assign a 4-digit password to lock the interface. If no password is desired, use "0000". This will clear out any currently set password. It is not necessary to lock down the interface when setting a password.

**Note:** A 4-digit only password must be chosen otherwise the interface will show "password not valid for this device".

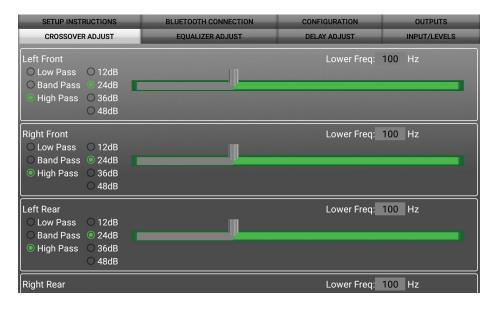
# **Outputs**



#### **Output Channels**

- **Location** Location of speaker.
- Group Used to join channels together for simple equalization. Example, left front woofer/midrange and left front tweeter will be considered simply left front. The letter M indicates the speaker assigned as the master speaker.
- **Invert** Will invert the phase of the speaker.
- **Mute** Will mute desired channel(s) for tuning individual channels.

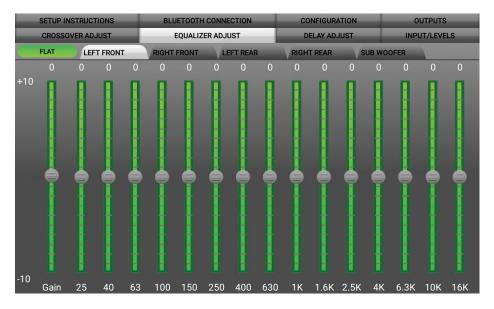
# **Crossover Adjust**



- Select the desired crossover filter per channel, low pass, band pass, or high pass
- Select the desired crossover slope per channel, 12db, 24db, 36db, or 48db
- Select the desired crossover frequency per channel, 20hz to 20khz

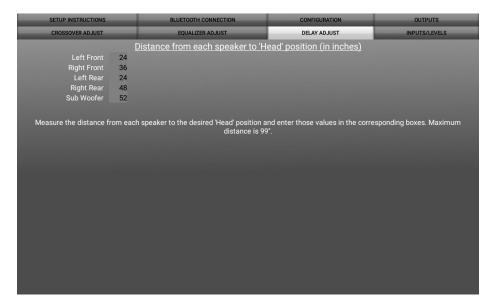
**Note:** The front and rear channels default to a 100Hz high pass filter to keep the low frequency signals out. If a subwoofer is not being installed, change the front and rear crossover points down to 20Hz for a full range signal, or to the lowest frequency the speakers will play down to.

# **Equalizer Adjust**



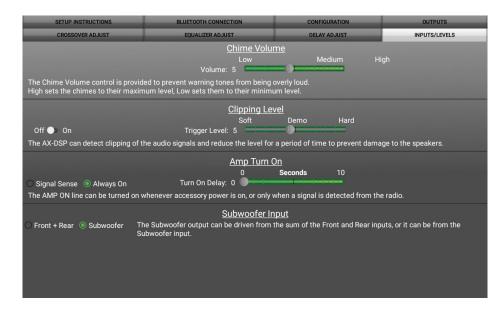
- All channels can be adjusted independently within this tab with 15 bands of available equalization. It is best to tune this by using an RTA (Real Time Analyzer).
- The **Gain** slider on the far left is for the channel selected.

# **Delay Adjust**



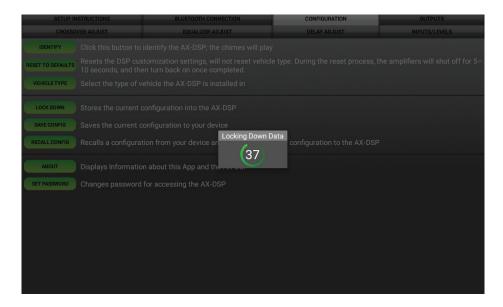
Allows a delay of each channel. If a delay is desired, first measure the
distance (in inches) from each speaker to the listening position, then
enter those values to the corresponding speaker. Add (in inches) to
the desired speaker to delay it.

# Inputs/Levels



- **Chime Volume** Not applicable in this application.
- Clipping Level Use this feature to protect sensitive speakers like tweeters from being driven past their capabilities. If the output signal of the interface clips the audio will be reduced by 20dB. Turning down the stereo will allow the audio to come back at a normal level. The sensitivity of this feature can be adjusted to the listening preference of the user.
- Amp Turn On
- **Signal Sense** Will turn the amp(s) on when an audio signal is detected, and keep on for 10 seconds after the last signal. This ensures the amp(s) won't shut off between tracks.
- **Always On** Will keep the amp(s) on as long as the ignition is cycled on.
- Turn on Delay Can be used to delay audio output to avoid turn-on pops.
- Subwoofer Input Select Subwoofer

# **Locking Down Data**



Last and the most important.

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

#### **SPECIFICATIONS**

Input Impedance 1M Ohm Input Channels 6

Input Options High Level or Low Level Input Type Differential balanced

Input Voltage 0 - 28-volts (peak-to-peak)

(high level range)

Input Voltage 0 - 4.9-volts (peak-to-peak)

(low level range)

Ouput Channels 6

Output Voltage Up to 5-volts RMS

Output Impedance 50 Ohms

Equalizer Type 15 Band Graphic EQ, +/- 10dB

THD <0.03% Frequency Response 20Hz - 20kHz

Crossover Filter Low pass, band pass, high pass

Crossover Frequency Selectable 20hz to 20khz Crossover Slope 12db/24db/36db/48db

Crossover Type Linkwitz-Riley

Sampling 48kHz

S/N Ratio 105dB @ 5-volts RMS

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



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