



INTERFACE COMPONENTS

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

APPLICATIONS

Visit axsessinterfaces.com for current application list

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

TABLE OF CONTENTS

Connections.....	2
Installation	3
AXDSPL-BT Installation.....	4
AXDSPL-SP Installation.....	5
Mobile App	6-14
Specifications	15

TOOLS & INSTALLATION ACCESSORIES REQUIRED

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

Google Play Store

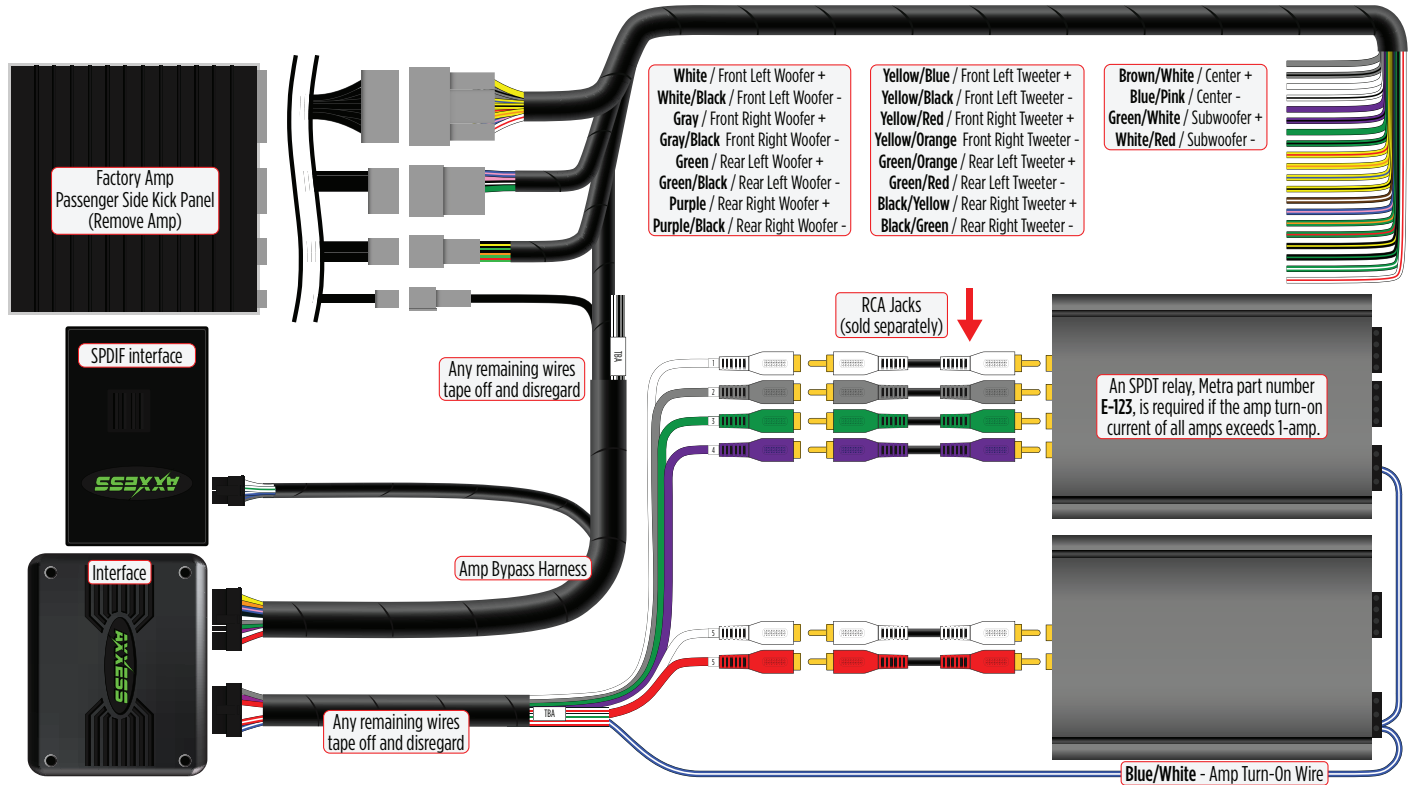


Apple App Store

iOS 12.1 or higher



CONNECTIONS



INSTALLATION

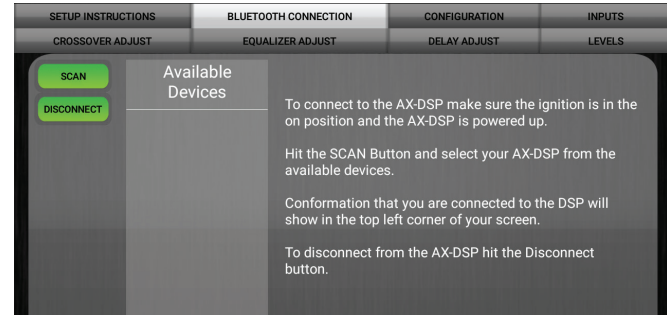
1. Locate the factory amp in the passenger side kick panel. Unplug and remove the amp.
2. Install the **AXDSPL-HN3 amp bypass harness** to the vehicle and make all necessary connections, but leave the amp turn-on wire disconnected.
3. Connect the **AXDSPL-HN3 amp bypass harness** to the **AXDSPL-HN3 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.
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. (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.

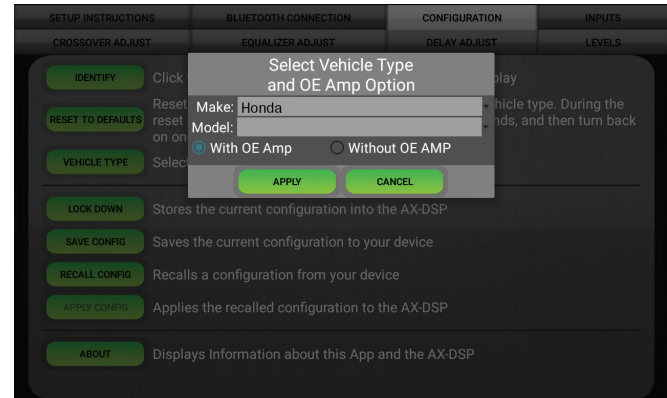
11. Adjust the settings in the app as desired. Press the **Lock Down ‡** button to save any new configurations.

‡ 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.

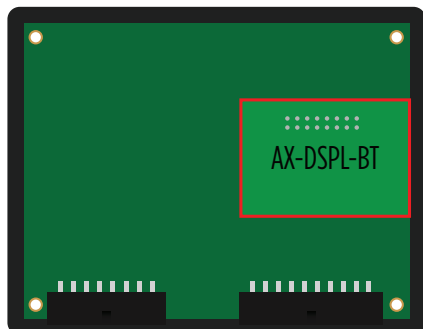
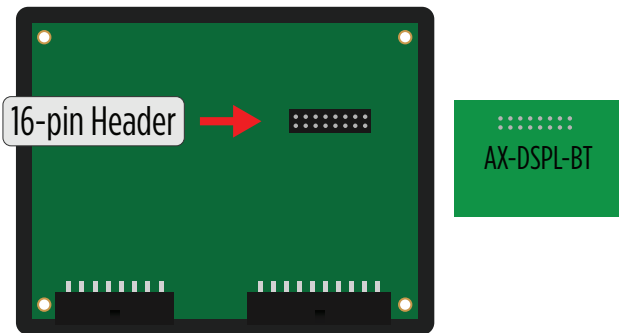


(Figure A)



(Figure B)

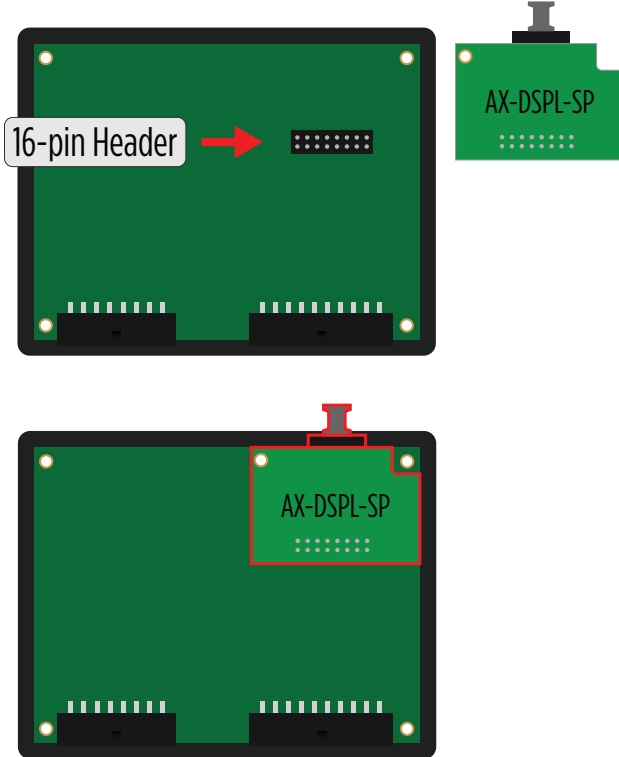
BLUETOOTH STREAMING INTERFACE



- 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.
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.

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.

MOBILE APP

Setup Instructions

SETUP INSTRUCTIONS	BLUETOOTH CONNECTION	CONFIGURATION	OUTPUTS
CROSSOVER ADJUST	EQUALIZER ADJUST	DELAY ADJUST	INPUTS/LEVELS

Using the vehicle specific harness, install the AX-DSP. The high level outputs from the OEM radio go to the inputs of the AX-DSP. The AX-DSP outputs are low level and should be connected to the amplifier inputs.

- Power on the system, and verify audio to the front (left and right), rear (left and right), and Subwoofer.
- Set the OEM radio bass and treble controls for flat frequency response.
- Set the left/right balance to center.
- Set the front/rear fader to center.

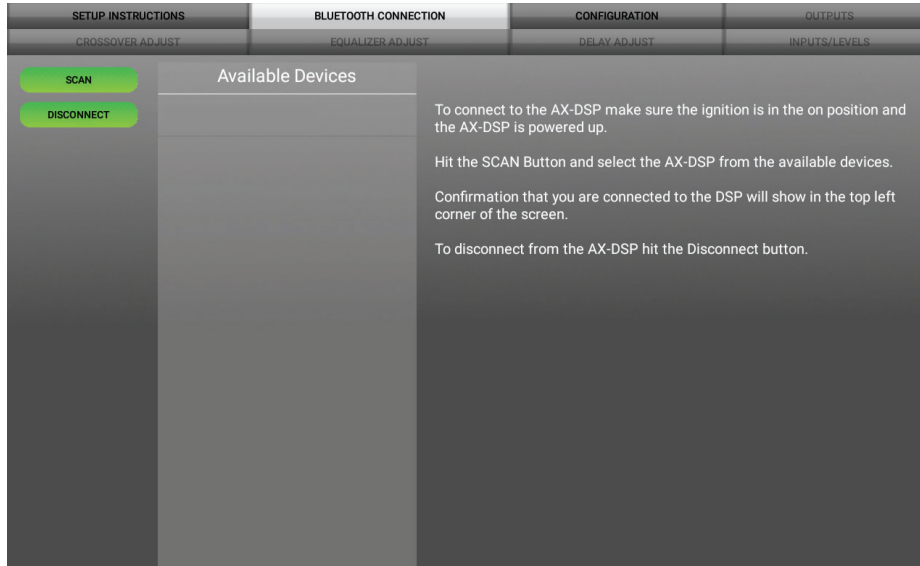
Detailed installation instructions are available on-line. Click the button below to view the instructions

[VIEW INSTRUCTIONS](#)

- General information tab for installing the interface.

Continued on the next page

Bluetooth Connection



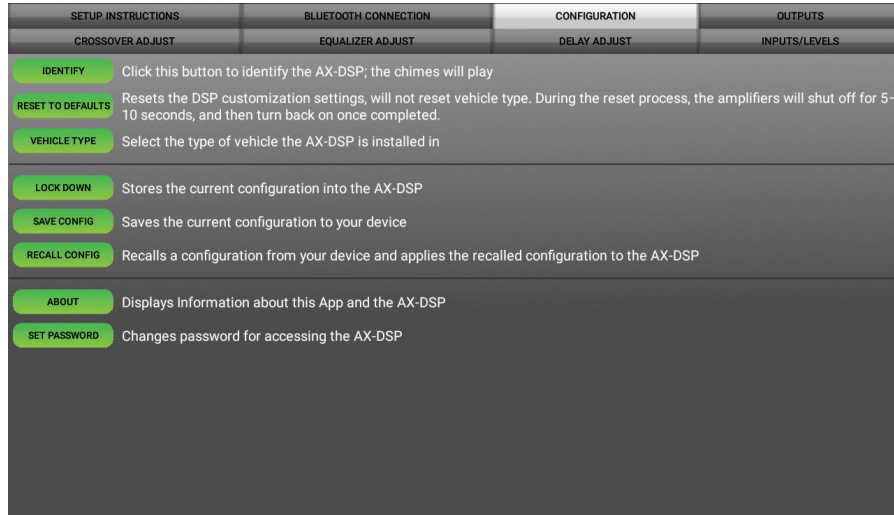
- **Scan** - Press this button to start the Bluetooth pairing process, then select the interface once it is found. "Connected" will appear in the top left corner of the app once paired.

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

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

Continued on the next page

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".

Continued on the next page

Outputs

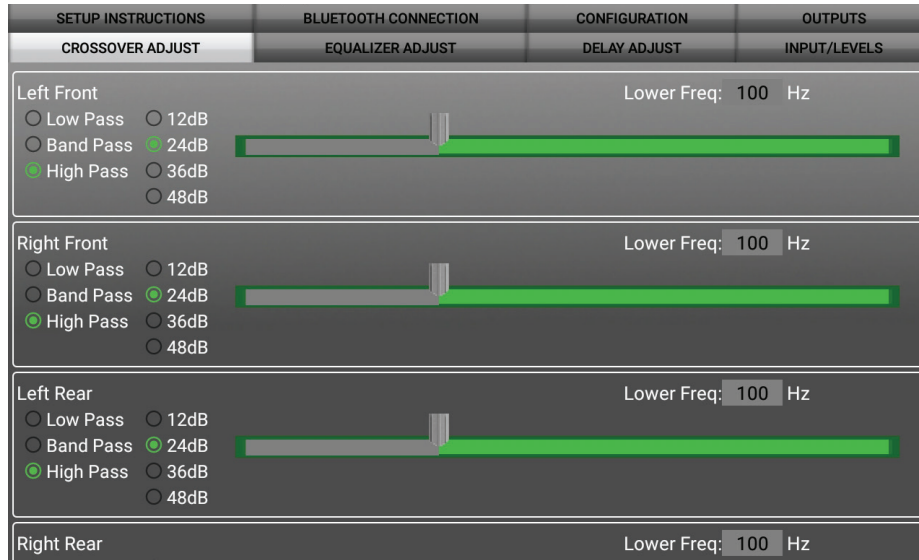


Output Channels

- **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.

Continued on the next page

Crossover Adjust

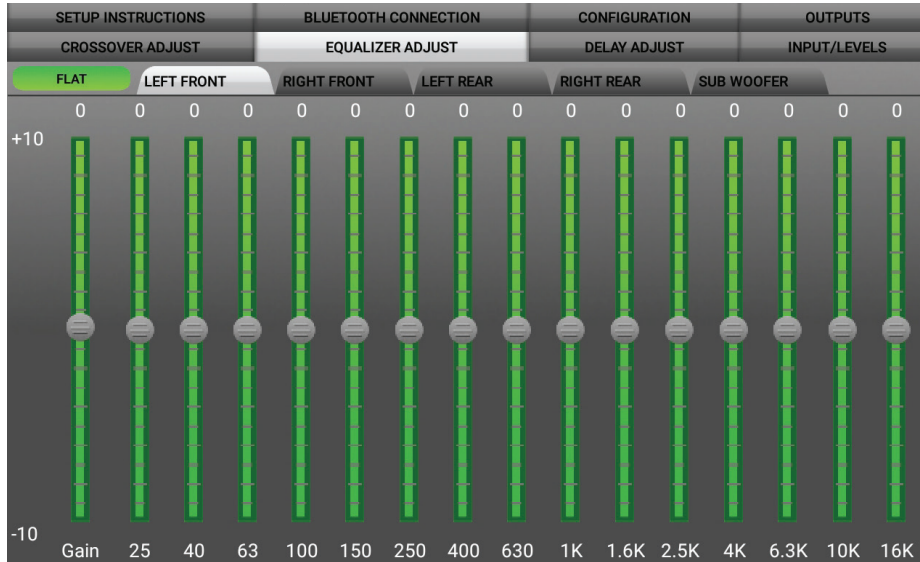


- Select the desired crossover filter per channel, low pass, band pass, or high pass
- Select the desired crossover slope per channel, 12db, 24db, 36db, or 48db
- Select the desired crossover frequency per channel, 20hz to 20khz

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.

Continued on the next page

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.

Continued on the next page

Delay Adjust

SETUP INSTRUCTIONS	BLUETOOTH CONNECTION	CONFIGURATION	OUTPUTS
CROSSOVER ADJUST	EQUALIZER ADJUST	DELAY ADJUST	INPUTS/LEVELS

Distance from each speaker to 'Head' position (in inches)

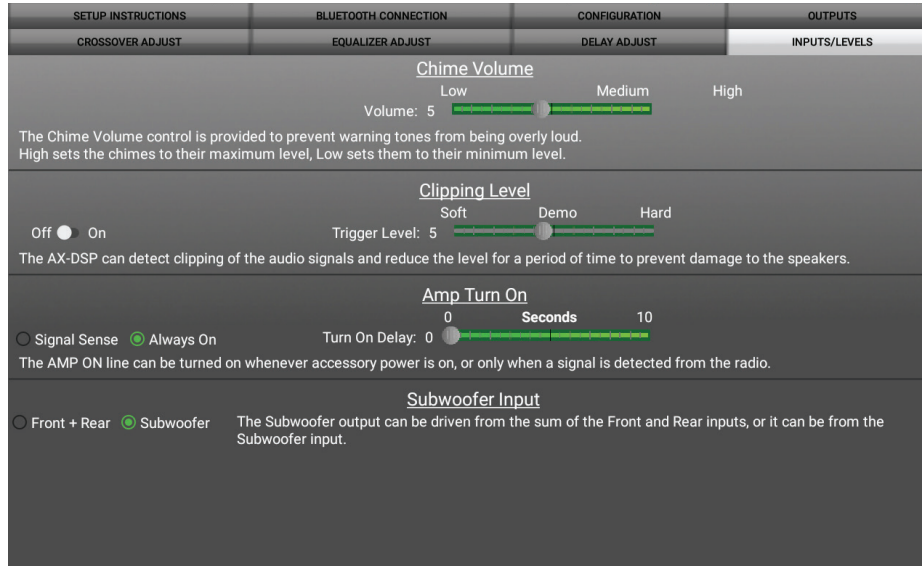
Left Front	24
Right Front	36
Left Rear	24
Right Rear	48
Sub Woofer	52

Measure the distance from each speaker to the desired 'Head' position and enter those values in the corresponding boxes. Maximum distance is 99".

- 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.

Continued on the next page

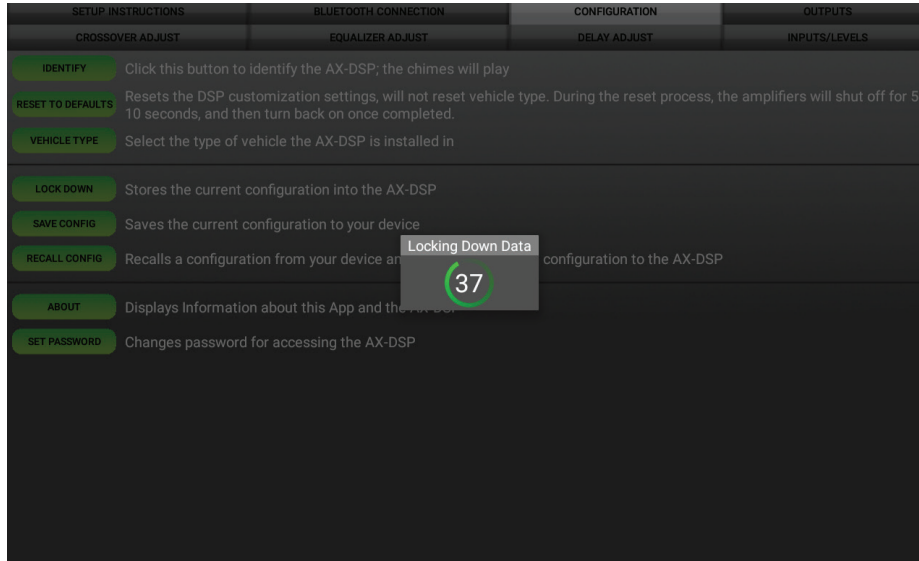
Inputs/Levels



- **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**

Continued on the next page

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)	
Output 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)



AXDSPL-HN3

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 - 7:00 PM

Sunday: 10:00 AM - 4:00 PM



KNOWLEDGE IS POWER

Enhance your installation and fabrication skills by enrolling in the most recognized and respected mobile electronics school in our industry. Log onto www.installerinstitute.com or call 800-354-6782 for more information and take steps toward a better tomorrow.



**Metra recommends MECP
certified technicians**