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AXXESS AX-DSP-XL App Instructions

Contents

AXXESS AX-DSP-XL App Instructions

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REV. 3/17/25 INSTAXDSPX AX-DSP-XL APP

Download the AX-DSP-XL App

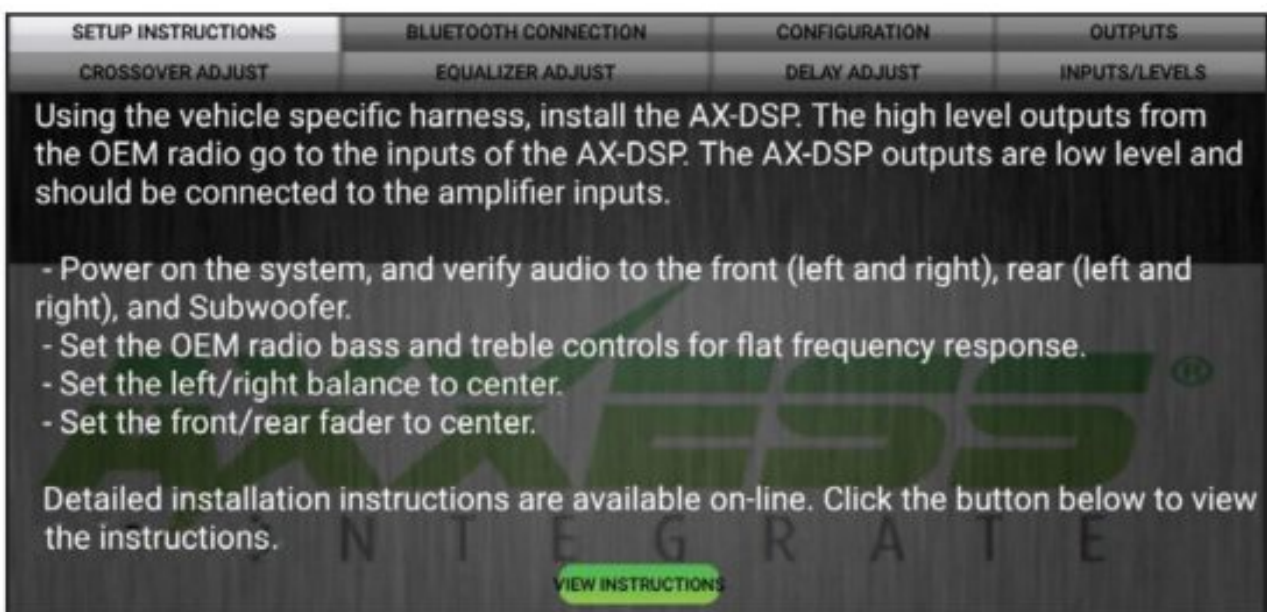Android™ 9 or higher   iOS® 12.1 or higher

Download the Interface Updater App at axxessinterfaces.com
(or use the QR code at left) to update any current AXXESS interface

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.

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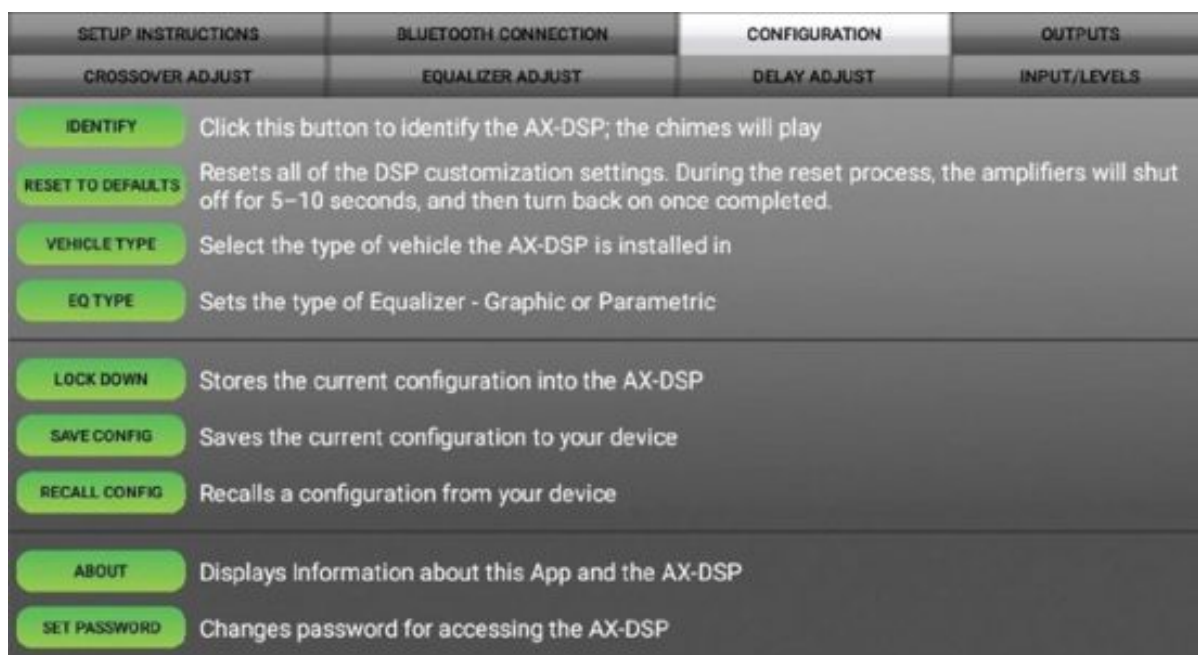
Bluetooth® Connectivity

- Scan – Press this button to start the Bluetooth® wireless pairing process, then select the available device 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 confirm that the interface is connected properly. If it is, a chime will be heard from the front left speaker. (Only installations using the front left output white RCA jack.)

- 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.

- Equalizer (EQ) Type: User has the option of optimizing the vehicle's sound quality with a Graphic or Parametric

equalizer.

- Lock Down – Click this button to save the selected settings.

  Attention! This must be done before closing the app or cycling the key 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) in order to tune individual channels.

Crossover Adjust

- Selecting High Pass and Low Pass will provide one crossover frequency adjustment.
  Selecting Band Pass will provide two crossover frequency adjustments: one for low pass, and one for 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.

Equalizer Adjust

Graphic EQ

- All channels can be adjusted independently within this tab with 31 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.

Parametric Equalizer
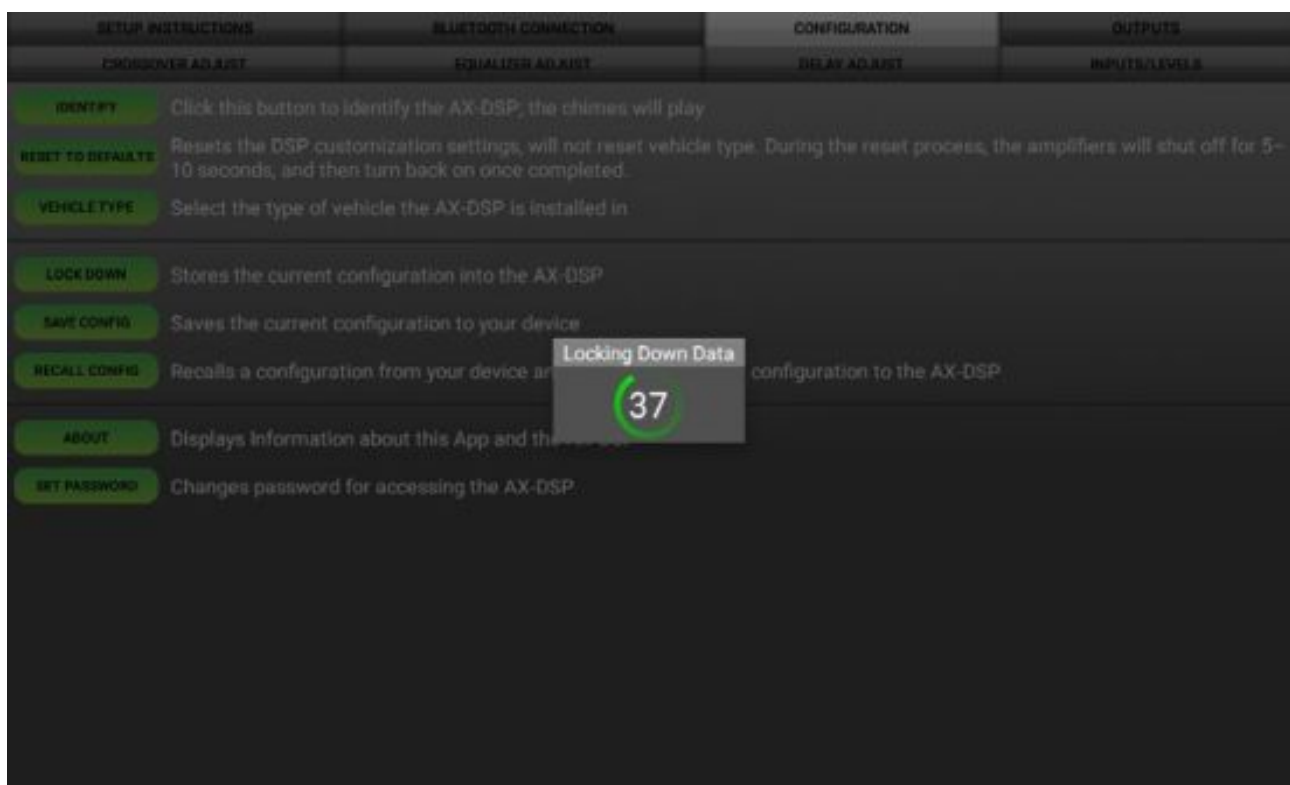

Parametric EQ

- Each output has a 5 Band parametric EQ per channel. Each band will give the user the ability to adjust: Q Factor Frequency Gain
- The FLAT button above Filter #1 will reset all curves back to flat.

Inputs/Levels

Chime Volume

Low   Medium   High

Volume: 8

The Chime Volume control is provided to prevent warning tones from being overly loud.

Turn Tick Volume

Low   Medium   High

Volume: 6

The Turn tick Volume control is provided to prevent Turn Tick tones from being overly loud.

Clipping Level

Soft   Hard

Off ⬤ On   Level: 5

The AX-DSP can detect clipping of the audio signals and reduce the level for a period of time to prevent damage to the speakers.

Amp Turn On

0   Seconds   10

Turn On Delay: 0

◯ Signal Sense ⬤ Always On

The AMP ON line can be turned on whenever accessory power is on, or only when a signal is detected from the radio.

Subwoofer Input

◯ Front + Rear ⬤ Subwoofer

The Subwoofer output can be driven from the sum of the Front and Rear inputs, or it can be from the Subwoofer input only.

- Chime Volume – Allows the chime volume to be adjusted up or down.
- Turn Tick Volume – Allows adjustment for gm's turn-signal click vol. (ex.) A djustment (+ or -) will take affect on the next activation.
- 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 Front + Rear or Subwoofer input depending on preference.

Locking Down Data

IDENTIFY — Click this button to identify the AX-DSP, the chimes will play

RESET TO DEFAULTS — Resets the DSP customization settings, will not reset vehicle type. During the reset process, the amplifiers will shut off for 5–10 seconds, and then turn back on once completed.

VEHICLE TYPE — Select the type of vehicle the AX-DSP is installed in

LOCK DOWN — Stores the current configuration into the AX-DSP

SAVE CONFIG — Saves the current configuration to your device

RECALL CONFIG — Recalls a configuration from your device and configuration to the AX-DSP

Locking Down Data
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ABOUT — Displays information about this App and the AX-DSP

SET PASSWORD — Changes password for accessing the AX-DSP

Last and the most important.
You must lock down your configuration and cycle the key!!!

SPECIFICATIONS

Input Impedance:	1M Ohms	**Signal-to-Noise:**	105 dBA (A-weighted)
Signal Input:	6 Balanced Hi or Low Level Differential RCA Inputs	**Crossover Type:**	High-Pass Low-Pass Band-Pass
Output Impedance:	50 Ohms		
Frequency Response:	20Hz – 20KHz	**Class:**	Linkwitz-Riley
Operating Voltage:	9 – 16 VDC	**Crossover Frequency:**	Adjustable: 20 Hz to 20 KHz
Mounting:	Behind Dash	**Crossover Slope:**	Selectable 12/24/36/48 dB/Octave
Signal Output:	10 Channels, 11 RCA Outputs	**EQ Frequency Centers:**	31 Band, x 10 Channels
Input Voltage:	High or Low Level up to 28V P-P Differential	**Delay:**	Up to 10mS x 10 Channels
		Tone Controls:	Bass/Mid/Treble x 10 Channels
Output Voltage:	up to 5V RMS	**Dimensions (H x W x D):**	0.95" x 3.83" x 2.95"
THD+N:	<0.03% @ 5V RMS Out		(24.13 mm x 97.28 mm x 74.93 mm)

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

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	AXXESS AX-DSP-XL App [pdf] Instructions AX-DSP-XL App, App

References

- **User Manual**