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AXXESS AXDSPL-VW1 DSP Interface Instruction Manual

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Contents

INSTALLATION OPTIONS

Addingasubtoa factory system:
This feature offers the ability to add a subwoofer to a factory system.

Addingafull-rangeamp & subtoafactorysystem:
This feature offers the ability to add a full-range amp and sub to a factory system.

16-pinheaderport:
Inside the interface is a 16-pin header port for adding optional modules (sold separately). and 6 will show the installation and use of these modules.
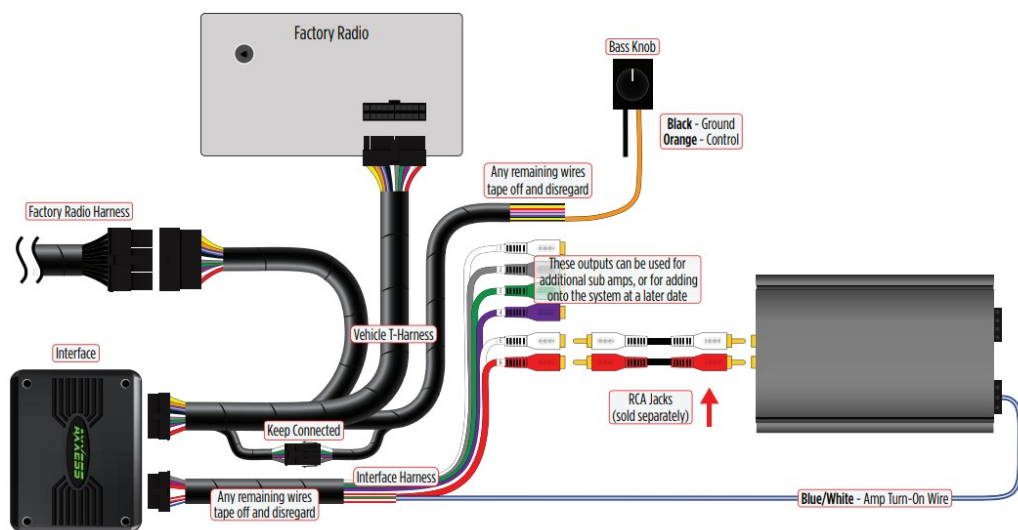
- AXDSPL-BT – Bluetooth streaming interface
- AXDSPL-SP – Toslink digital output

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
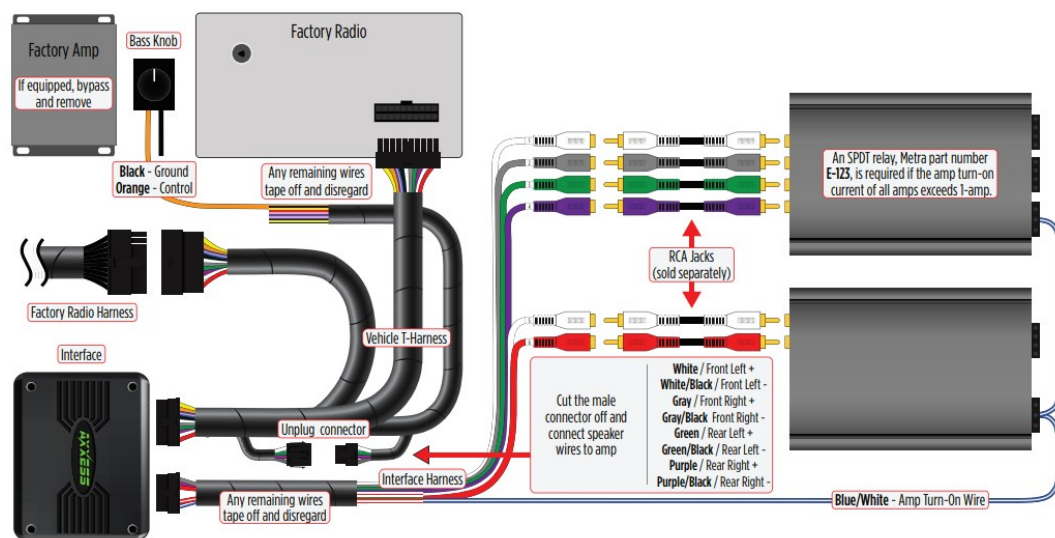
INSTALLATION

1. Remove the factory radio †, then unplug all connectors.
2. Install the AXDSPL-VW1vehicleT-harness to the vehicle and make all necessary connections, but leave the amp turn-on wire disconnected.
3. Plug the AXDSPL-VW1vehicleT-harness to the AXDSPL-VW1 interface.
4. Plug the AXDSPL-VW1 interfaceharness to the AXDSPL-VW1 interface.
5. Download and install the AX-DSP-Xapp from the GooglePlayStore or AppleAppStore.
6. Cycle the ignition on.
7. Open the app then select the BluetoothConnection tab. Follow the instructions to pair the mobile device to the interface. Refer to page 6 for more information.
8. Scroll to the Configuration tab then select the vehicle type. Press theLock Down ‡ button to save the configuration. Refer to page 7 for more information.
9. Connect the amp turn-on wire.
10. Adjust the settings in the app as desired. Press the Lock Down‡ button to save any new configurations

- Refer to **Metra online** 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

ADDING A SUB TO A FACTORY SYSTEM

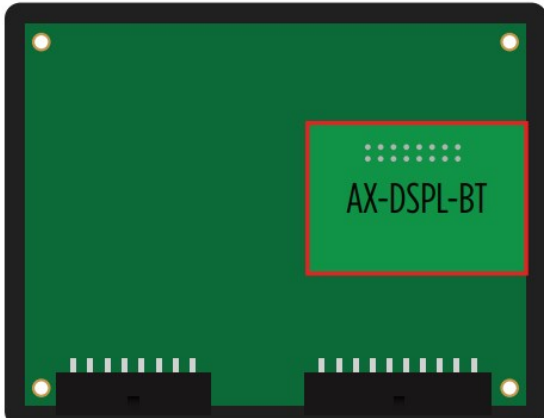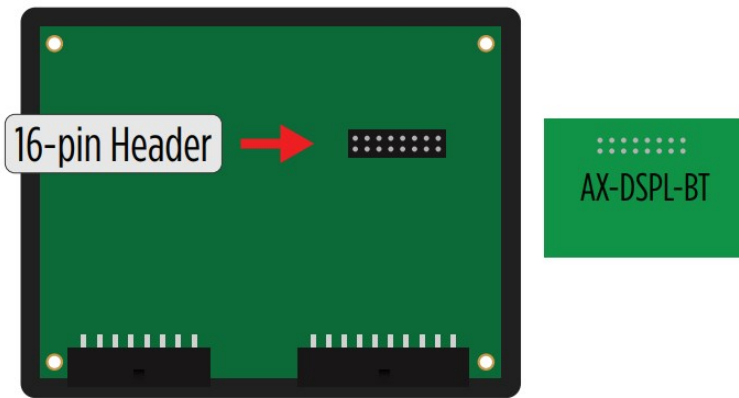## ADDING A FULL-RANGE AMP & SUB TO A FACTORY SYSTEM
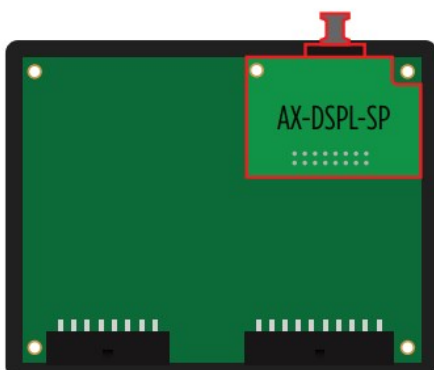

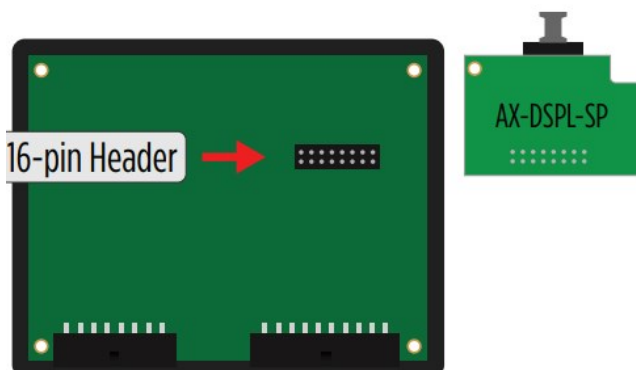
BLUETOOTH STREAMING INTERFACE

1. 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-VW1 can be used if it will not be usedto control a subwoofer.

2. Important! Unplug the interface from the vehicle.

3. Remove (4) Phillips screws securing the interface, then remove the top cover, exposingthe circuit board within.

4. Locate the 16-pin header on the circuit board.

5. Important! Referencing how the AXDSPL-BT is laid out in the picture, carefully line upthe header pins to the interface. Gently press down to secure.
   Note: Both interfaces may be damaged if installed wrong.

6. Reinstall the top cover to complete the installation. AXBK-1 Installation:

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

16-pin Header →

AX-DSPL-BT

AX-DSPL-BT

TOSLINK DIGITAL OUTPUT

16-pin Header →

AX-DSPL-SP

AX-DSPL-SP

1. 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-VW1 can be used if it will not be used to control a
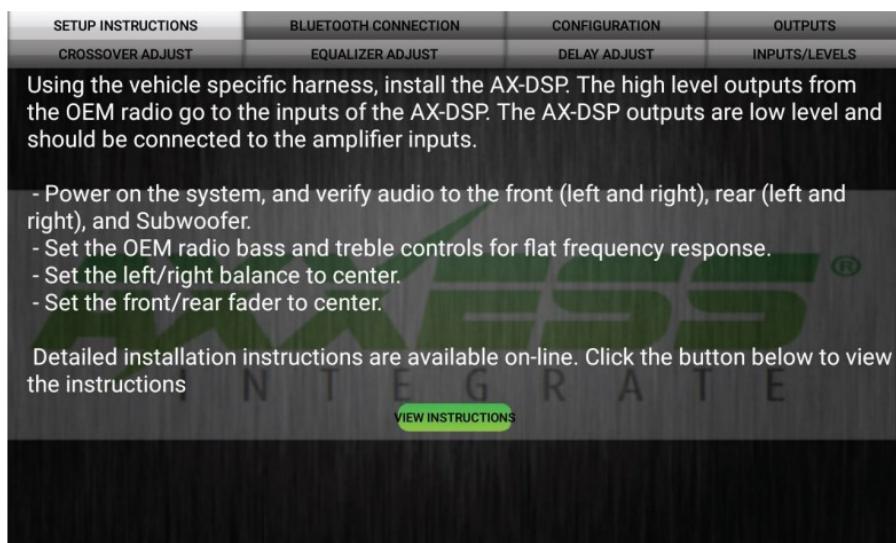
subwoofer.

2. Important! Unplug the interface from the vehicle.

3. Remove (4) Phillips screws securing the interface, then remove the top cover, exposing the circuit board within.

4. Locate the 16-pin header on the circuit board.

5. 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.

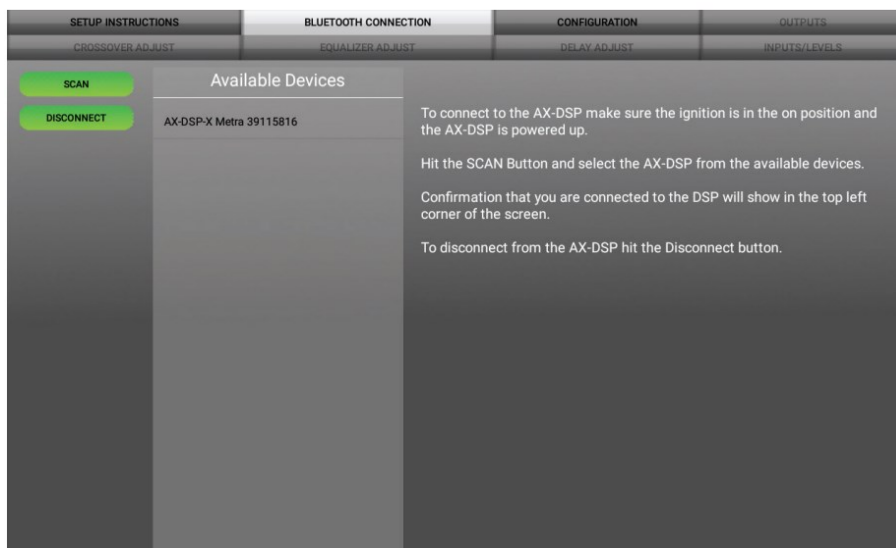   **Note:** Both interfaces may be damaged if installed wrong.

6. Reinstall the top cover to complete the installation. AXBK-1 Installation:

7. Connect the Brown wire from the interface to the Orange wire from the AXBK-1. Ground the Black wire from the A

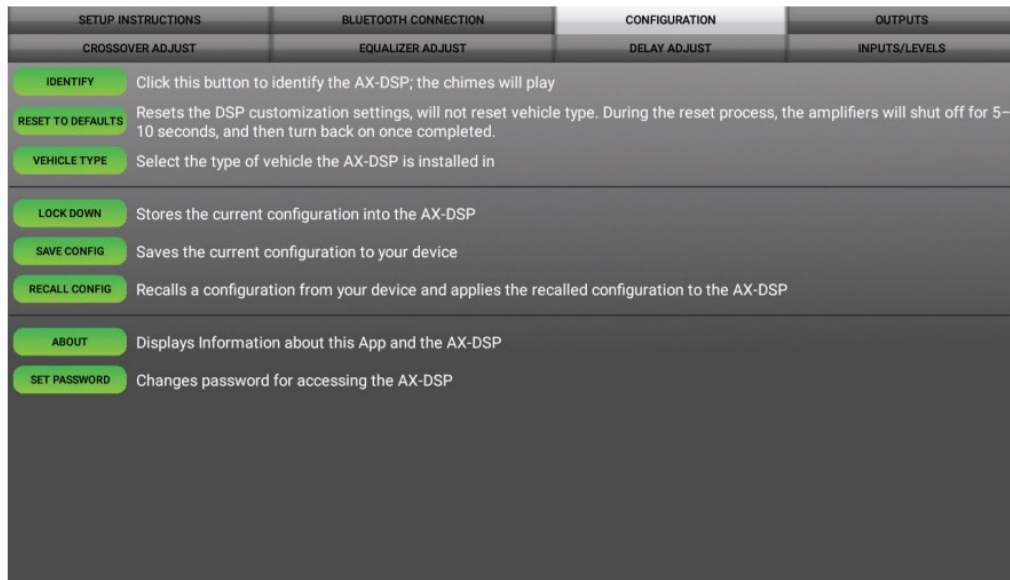## MOBILE APP

Setup Instructions

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.

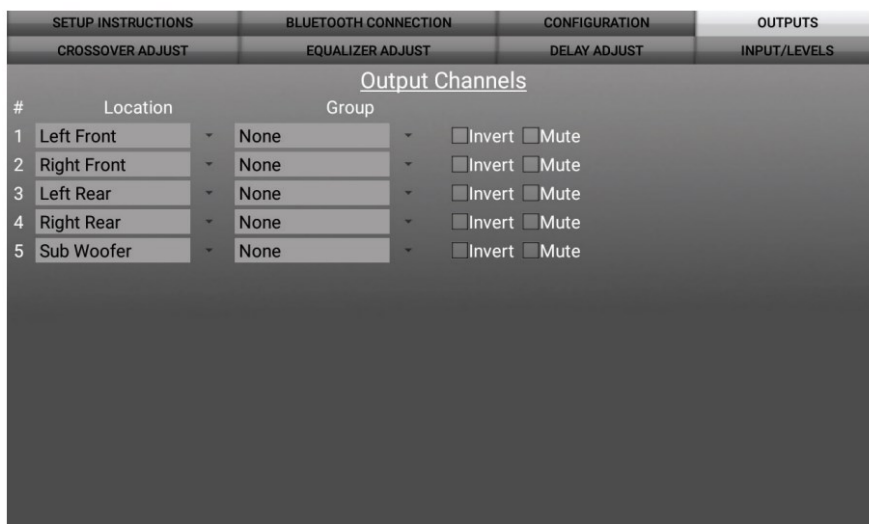- **Disconnect** – Disconnects the interface from the app.

Configuration

- **Identify** – Click this button to send a test tone to the front left speaker*.
    - 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.
- **VehicleType** – 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 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) 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 thedistance (in inches) from each speaker to the listening position, thenenter those values to the corresponding speaker. Add (in inches) to the desired speaker to delay it.
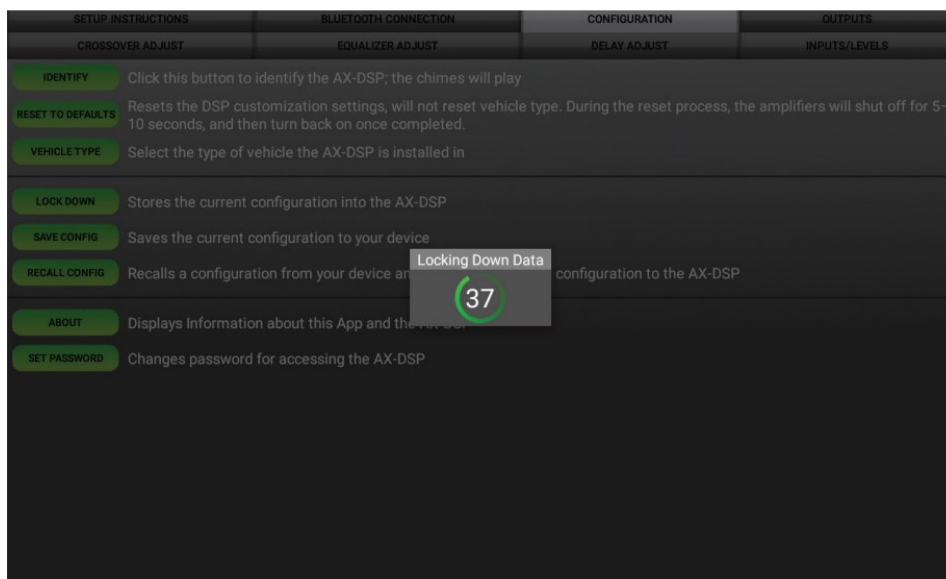
Inputs/Levels

- **Chime Volume** – Not applicable in this application.
- **Clipping Level** – Use this feature to protect sensitive speakers like tweeters frombeing driven past their capabilities. If the output signal of the interface clips theaudio will be reduced by 20dB. Turning down the stereo will allow the audio tocome 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.
- **Sub woofer Input** – Select Front + Rear

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

Having difficulties? We're here to help.

Contact our Tech Support line at:
386-257-1187

 Or via email at:
techsupport@metra-autosound.com

TechSupport Hours (EasternStandardTime)
Monday – **Friday:** 9:00 AM – 7:00 PM
Saturday: 10:00 AM – 7:00 PM
Sunday: 10:00 AM – 4:00 PM

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 Metra recommends MECP
certified technicians

Documents / Resources

 AXXESS AXDSPL-VW1 DSP Interface [pdf] Instruction Manual
AXDSPL-VW1 DSP Interface, AXDSPL-VW1, DSP Interface, Interface

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