



AXDSPX-BMWM25

INSTALLATION INSTRUCTIONS



INTERFACE COMPONENTS

- AXDSPX-BMWM25 interface
- AXDSPX-BMWM25 harness
- AXBK-1 Bass Knob
- LD-MOSTCAP
- BMWM25

APPLICATIONS

Visit Axxessinterfaces.com for current application list

For **Dash Disassembly Instructions**, refer to metraonline.com. Enter the year, make, and model of the vehicle in the **Vehicle Fit Guide** for **Radio Install kits**.



MOST25®/DSP Data Interface with Amplifier Bypass Harness

Fits Select BMW Models 2010-2020

FEATURES & SPECIFICATIONS

- Designed for MOST® amplified systems
- Selectable 31-band Graphic EQ or 5-band parametric EQ on each channel with high pass, low pass, and bandpass filters
- 6 inputs and 10 individually assignable outputs
- Selectable slope (12, 24, 36, or 48db per octave)
- Selectable Graphic or Parametric EQ
- Independent equalization on each of the 10 outputs
- Each channel can be delayed independently up to 10 ms
- Clipping detection and limiting circuits
- Bass knob included
- Settings adjusted wirelessly in the free AX-DSP-XL app available for smartphones and tablets
- To be used with factory radios
- Read, write, and store configurations for future recall
- Password protect feature available in the 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
- Tone generator

Download the AX-DSP-XL App

Android™ 9 or higher



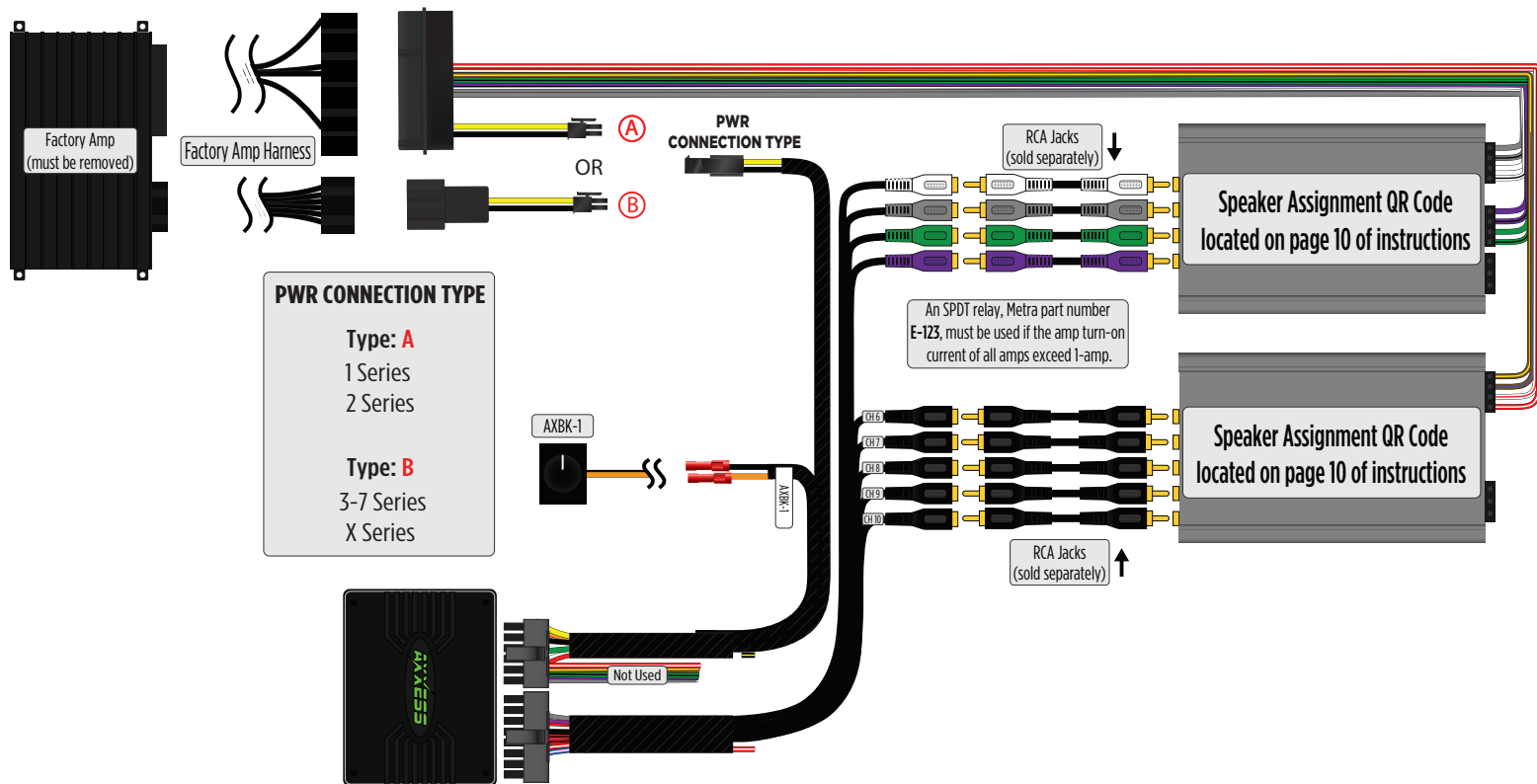
iOS® 12.1 or higher



ATTENTION: With the key out of the ignition, disconnect the negative battery terminal before installing this product. Ensure that all installation connections, especially the air bag indicator lights, are plugged in before reconnecting the battery or cycling the ignition to test this product.

NOTE: Refer also to the instructions included with the aftermarket accessory before installing this device.

CONNECTIONS: ADDING A FULL-RANGE AMP & SUB TO A FACTORY SYSTEM

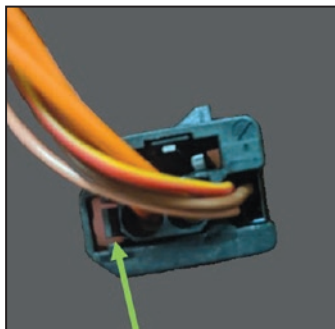


INSTALLING THE FIBER OPTIC CABLE

Installing the Fiber Optic Cable:

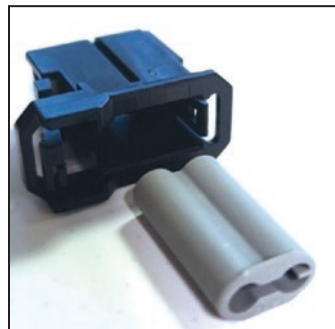
Removal of the original fiber optic connection is required to adapt to the **Media Oriented System Transport (MOST)** interface. The black connector housing uses a different keyway than the MOST interface.

- From the original Fiber Optic Connector: Using a pick tool, carefully pull this tab towards the outside edge for the connector housing. Gently remove the fiber optic insert from the connector. (Figure A)



(Figure A)

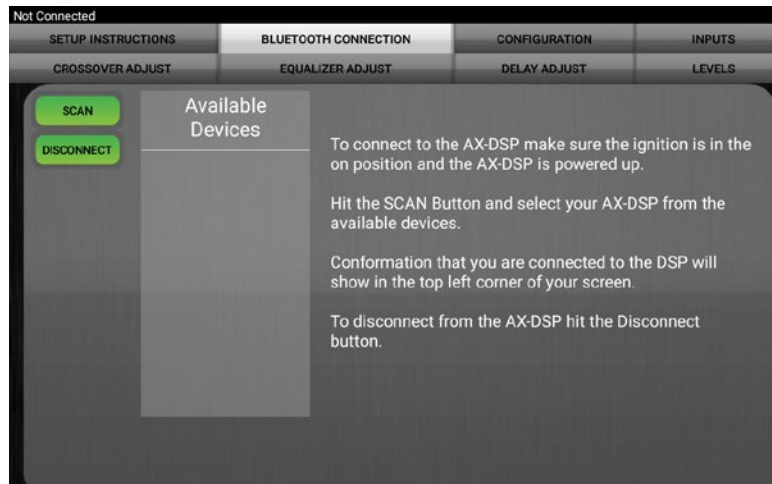
- From the MOST Interface: Using the same steps from above, remove the gray insert from the black fiber optic housing. Replace the gray connector with the fiber optic cables into the MOST interface's black connector housing. (Figure B)
- Plug the MOST connector into the fiber decoder box.



(Figure B)

INSTALLATION

1. Locate the factory amp in the left side of the trunk, unplug all connectors, then remove the amp.
2. Install the **AXDSPX-BMWM25 harness** and make all necessary connections, but leave the **Blue/White** amp turn-on wire disconnected.
3. Connect the MOST® fiber optic connector removed from the factory amplifier into the **AXDSPX-BMWM25 interface**. For fiber optic connection, please refer to page 8, **Installing the Fiber Optic Cable**.
4. Plug the 12-pin and 16-pin connectors from the **AXDSPX-BMWM25 harness** into the **AXDSPX-BMWM25 interface**.
5. Download and install the **AX-DSP-XL** app for your smart device.
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. (Figure A)



(Figure A)

INSTALLATION (CONT.)

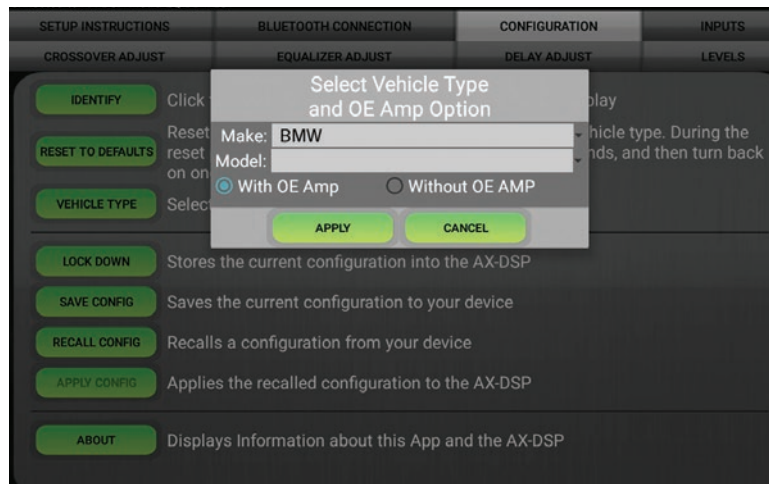
8. Scroll to the **Configuration** tab then select the vehicle type. Press the **Lock Down** button to save the configuration. (Figure B)
9. Connect the **Blue/White** amp turn-on wire.
10. Click the **Identify** button to confirm the interface is connected properly. A chime will be heard from the front 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 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.

If the **Red** light in the interface is blinking, it is not communicating with the vehicle.

1. Cycle the key off.
2. Unplug the connectors from the vehicle to the interface.
3. Inspect that all connections are made properly.
4. If everything is correct, connect the harnesses back into the interface, and cycle the ignition on. The **Red** light should now be solid.



(Figure B)

QUICK SETUP STEPS THROUGH AX-DSP-XL APP

Android™ 9 or higher

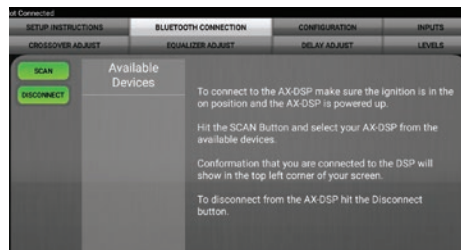


iOS® 12.1 or higher



1. Download and install the **AX-DSP-XL** app for your smart device.
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: _____
 - Select the Vehicle's model: _____
 - 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 **AXDSPX-BMW25** harness to the aftermarket amplifiers.

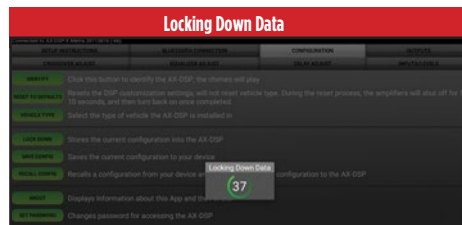
7. From the **Configuration** page click the **Identify** button to confirm that the **AXDSPX-BMW25** is connected properly. If so, a chime will be heard from the front left speaker.
8. Press the **Lock Down** button to save the configuration. (Do not turn ignition off until this process is completed) (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.
12. 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.



(Figure A)



(Figure B)



(Figure C)

Last and the most important:

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

SPECIFICATIONS

Specifications

Input Impedance	1M Ohm
Input Channels	6 High/Low Level Selectable
Input Options	High Level or Low Level
Input Type	Differential-Balanced
Input Voltage	
High Level Range	0 - 28v Peak to Peak
Input Voltage	
Low Level Range	0 - 4.9v Peak to Peak
Output Channels	10
Output Voltage	Up to 5v RMS
Output Impedance	50 Ohms
Equalizer Type	31 Band Graphic EQ, +/- 10dB
THD	<0.03%
Frequency Response	20Hz - 20kHz
Crossover	3-Way LPF, BPF, HPF THP per channel
Crossover Type	Linkwitz-Riley 24DB Slope, Fixed
Sampling	48kHz
S/N Ratio	105dB @ 5V RMS

General

Operating Voltage	10 - 16VDC
Standby Current Draw	~7mA
Operation Current Draw	~150mA
Adjustments/Controls	Application via Bluetooth®
Remote Output	12VDC, Signal Sense or with Ignition



AXDSPX-BMWM25

INSTALLATION INSTRUCTIONS

TROUBLESHOOTING

LED FEEDBACK

BLINK RATE	CONDITION/STATUS
LED Heartbeat	BOARD POWERED ON
LED Fade In/Out Slow	CONNECTED TO MOST
LED Fast Flashing	CONNECTED TO BT, NOT CONNECTED TO MOST
LED On	CONNECTED TO MOST & BT
LED SOS Pattern	CORRUPT DSP FILE AND/OR FAILED TO PROGRAM DSP

Visit [AxxessInterfaces.com](https://www.AxxessInterfaces.com) for more detailed information about the product and up-to-date vehicle specific applications

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

Speaker Assignment QR Code



**Metra recommends MECP
certified technicians**