

## Memphis Audio RE-MXA2.140

# Memphis Audio 16-MXA2.140 Powersports 2-Channel Amplifier User Manual

Model: RE-MXA2.140

## INTRODUCTION AND OVERVIEW

The Memphis Audio 16-MXA2.140 Powersports 2-Channel Amplifier is engineered for durability and performance in challenging environments. This amplifier features a robust design with conformal circuit boards, sealed controls, and upgraded terminals, making it suitable for powersports applications where exposure to elements is common. Its ultra-compact size allows for flexible installation in vehicles with limited space, such as UTVs or motorcycles. This manual provides essential information for the proper installation, operation, and maintenance of your Memphis Audio amplifier.



Image: The Memphis Audio 16-MXA2.140 Powersports 2-Channel Amplifier, showcasing its compact design and integrated wiring harnesses.

## KEY FEATURES

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- Ultra-compact design for versatile installation.
- Element-resistant conformal coat board for protection against moisture and dust.
- Sealed wire harnesses to prevent water ingress.
- Efficient Class D design for cool operation and high power output.
- Waterproof control covers for enhanced durability.
- Bass level control for audio customization.
- High and low level inputs for compatibility with various audio sources.

## SETUP AND INSTALLATION

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Proper installation is crucial for optimal performance and longevity of your amplifier. It is recommended to have this unit installed by a professional if you are unfamiliar with car audio wiring.

1. **Mounting Location:** Select a secure, dry, and well-ventilated location for the amplifier. The unit is designed for surface mounting. Ensure the location is protected from direct exposure to extreme heat or physical damage.

2. **Power Wiring:** Connect the main power wire (typically red) from the amplifier to the positive terminal of your vehicle's battery. An inline fuse (not included) should be installed within 18 inches of the battery. The recommended amplifier kit is a 10-gauge kit.
3. **Ground Wiring:** Connect the ground wire (typically black) from the amplifier to a clean, unpainted metal surface on the vehicle chassis. Ensure a solid electrical connection.
4. **Remote Turn-On:** Connect the remote turn-on wire (typically blue) from the amplifier to the remote output of your head unit or an ignition-switched 12V source.
5. **Audio Input:**
  - **Low-Level Input (RCA):** If your head unit has RCA outputs, connect them to the amplifier's low-level inputs.
  - **High-Level Input (Speaker Level):** If your head unit does not have RCA outputs, use the provided sealed wire harnesses to connect directly to your head unit's speaker outputs.
6. **Speaker Output:** Connect your speakers to the amplifier's speaker output terminals using appropriate gauge speaker wire. Ensure correct polarity.

All wire harnesses are sealed to protect against environmental elements. Ensure all connections are secure and properly insulated.

## OPERATING INSTRUCTIONS

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Once the amplifier is correctly installed and all connections are verified, you can begin operation.

1. **Power On:** Turn on your vehicle's ignition and head unit. The amplifier should power on automatically via the remote turn-on wire.
2. **Gain Adjustment:** Carefully adjust the gain control on the amplifier. Start with the gain at its minimum setting and slowly increase it until the desired volume is achieved without distortion. Avoid setting the gain too high, as this can lead to distorted sound and potential damage to speakers.
3. **Bass Level Control:** Use the bass level control to adjust the low-frequency output to your preference. This control allows for fine-tuning of bass response.
4. **Crossover Settings (if applicable):** If your amplifier includes crossover settings, adjust them according to your speaker type and desired sound profile. Refer to your speaker's specifications for recommended crossover points.

Always ensure your audio source (head unit) volume is at a moderate level before making adjustments on the amplifier.

## MAINTENANCE

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The Memphis Audio 16-MXA2.140 amplifier is designed for minimal maintenance due to its element-resistant construction. However, periodic checks can ensure continued optimal performance.

- **Cleaning:** Periodically wipe down the amplifier's exterior with a soft, damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Connection Checks:** Annually, inspect all wiring connections (power, ground, remote, input, output) to ensure they remain secure and free from corrosion.
- **Environmental Protection:** While element-resistant, avoid prolonged submersion or direct high-pressure water spray. Ensure waterproof control covers are properly seated.

## TROUBLESHOOTING

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If you experience issues with your amplifier, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	<ul style="list-style-type: none"><li>• Blown fuse</li><li>• Loose power or ground connection</li><li>• Faulty remote turn-on connection</li><li>• Low battery voltage</li></ul>	<ul style="list-style-type: none"><li>• Check and replace fuse if necessary.</li><li>• Verify all power and ground connections are secure.</li><li>• Ensure remote wire is connected to a switched 12V source.</li><li>• Check vehicle battery voltage.</li></ul>
No Sound Output	<ul style="list-style-type: none"><li>• Input signal issue</li><li>• Speaker wire disconnected or shorted</li><li>• Amplifier in protection mode</li></ul>	<ul style="list-style-type: none"><li>• Check RCA or high-level input connections.</li><li>• Inspect speaker wiring for shorts or disconnections.</li><li>• Turn off amplifier, check connections, and restart.</li></ul>
Distorted Sound	<ul style="list-style-type: none"><li>• Gain set too high</li><li>• Poor input signal quality</li><li>• Speaker impedance mismatch</li></ul>	<ul style="list-style-type: none"><li>• Reduce amplifier gain setting.</li><li>• Check head unit output and input connections.</li><li>• Ensure speakers are compatible with amplifier's impedance ratings.</li></ul>

If these steps do not resolve the issue, contact customer support or a qualified technician.




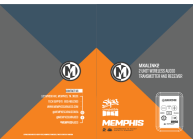


SPECIFICATIONS

Specification	Value
Model Number	RE-MXA2.140
RMS Power @ 4Ω	100 watts x 2 channels
RMS Power @ 2Ω	140 watts x 2 channels
Bridged/Mono Power @ 4Ω	280 watts x 1 channel
THD% @ 4Ω	<1%
Frequency Response	20Hz - 20 kHz
Dimensions (L x W x H)	5.91 x 4 x 1.75 inches
Input Range	200mV - 9.1V
Recommended Amp Kit	10GKIT (10 Gauge)
Voltage	9.1 Volts (Operating)
Mounting Type	Surface Mount

## WARRANTY AND SUPPORT

This product is listed as "Renewed." Warranty coverage for renewed products can vary. Please refer to the specific warranty terms provided by the seller or the Amazon Renewed program at the time of purchase. For technical support or further assistance, please contact Memphis Audio customer service or the retailer from whom the product was purchased. Keep your purchase receipt and model number (RE-MXA2.140) readily available when seeking support.

### Related Documents - RE-MXA2.140

	<a href="#">Memphis MXA100.2S &amp; MXA200.4S Powersports Mini Amplifiers Instruction Guide</a> Instruction guide for Memphis Xtreme Audio MXA100.2S and MXA200.4S powersports mini amplifiers. Covers features, specifications, installation, warranty, and troubleshooting. Engineered to resist water and elements for powersports and marine applications.
	<a href="#">Memphis MXA300.4 300 Watt 4-Channel Amplifier User Manual and Specifications</a> Comprehensive guide to the Memphis MXA300.4 300 Watt 4-Channel Amplifier, covering features, specifications, controls, installation, troubleshooting, and warranty information. Designed for powersports and marine use.
	<a href="#">Memphis Audio SE1200.4V2 4-Channel Amplifier: Controls and Installation Guide</a> Comprehensive guide to the Memphis Audio SE1200.4V2 4-channel amplifier, covering crossover controls, gain settings, installation, and troubleshooting.
	<a href="#">MXALINK2 2-Unit Wireless Audio Transmitter and Receiver User Manual</a> Comprehensive user manual for the Memphis Audio MXALINK2 2-unit wireless audio transmitter and receiver, detailing features, specifications, instructions, wiring, bonding, and troubleshooting for powersports and marine applications.
	<a href="#">Memphis Audio SE3200.1V2 Mono Amplifier Manual &amp; Installation Guide</a> Comprehensive guide for the Memphis Audio SE3200.1V2 mono amplifier, covering installation, troubleshooting, specifications, and system planning for car audio enthusiasts.
	<a href="#">Memphis Audio SE2000.1V2 Mono Amplifier Instruction Manual</a> Detailed instructions, specifications, and troubleshooting guide for the Memphis Audio SE2000.1V2 mono car amplifier, covering installation, wiring, and system planning.