

Memphis MX800.4

Memphis Audio MX800.4 Powersports 4-Channel Amplifier User Manual

Model: MX800.4

INTRODUCTION

Thank you for choosing the Memphis Audio MX800.4 Powersports 4-Channel Amplifier. This amplifier is engineered for robust performance in demanding environments, featuring a compact design, conformal coated board, and IP66 rating for water and element resistance. This manual provides essential information for proper installation, operation, and maintenance of your amplifier to ensure optimal performance and longevity.

SAFETY INFORMATION

- Always disconnect the vehicle's battery negative terminal before beginning any installation.
- Ensure all wiring is properly routed and secured to prevent damage from moving parts or sharp edges.
- Use appropriate gauge wiring for power and ground connections to prevent overheating and ensure stable power delivery.
- Do not mount the amplifier in locations exposed to direct sunlight or excessive heat.
- This amplifier is IP66 rated for water and element resistance, but it is not designed for submersion.
- Seek professional installation if you are unsure about any part of the process.

KEY FEATURES

- **Compact Design:** Allows for versatile mounting options in various powersports applications.
- **Conformal Coated Board:** Provides enhanced protection against moisture and environmental elements.
- **IP66 Rated:** Certified for high resistance to water and dust ingress.
- **Top Mounted Controls:** Convenient access to adjustments for input mode, frequency, and sensitivity.
- **Sealed Connectors:** Ensures secure and protected electrical connections.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier. Follow these guidelines carefully.

Mounting the Amplifier

Select a mounting location that is secure, provides adequate ventilation, and is protected from direct exposure to extreme heat or physical damage. The compact size of the MX800.4 allows for flexible placement in powersports vehicles.



Image: Top view of the MX800.4 amplifier, highlighting its compact form factor and integrated mounting tabs for secure installation.

Wiring Connections

Ensure all power, ground, remote, and speaker wires are connected securely and correctly. Use high-quality, appropriately gauged wiring.

- **Power (B+):** Connect to the positive terminal of the vehicle's battery via a fused power cable. The fuse should be located within 18 inches of the battery.
- **Ground (GND):** Connect to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid, low-resistance connection.
- **Remote (REM):** Connect to the remote turn-on output of your head unit or a switched 12V source.
- **Speaker Outputs:** Connect your speakers to the designated output terminals. Observe correct polarity (+/-).
- **Input Signal:** Connect your audio source (head unit) to the amplifier's input. The MX800.4 supports both 2-channel and 4-channel input modes.



Image: An angled view of the MX800.4 amplifier, showing the integrated wiring harnesses for power, ground, remote, and speaker connections, designed for secure and weather-resistant attachment.



Image: Rear angled view of the MX800.4 amplifier, illustrating the robust, sealed connectors for both input and output signals, ensuring reliable performance in challenging environments.

OPERATING INSTRUCTIONS

The MX800.4 features top-mounted controls for easy adjustment of audio settings.

Control Panel Overview



Image: Detailed view of the MX800.4's top-mounted control panel, showing switches for input mode, frequency crossovers (HPF/LPF/FULL), and sensitivity (SENS) adjustments for both front and rear channels.



Image: The MX800.4 amplifier with its protective cover removed, revealing the accessible top-mounted controls for fine-tuning audio settings.

Adjusting Settings

- **Input Mode:** Select between 2CH (2-channel) or 4CH (4-channel) input based on your head unit's output configuration.
- **Frequency (FREQ):** Adjust the crossover settings for each channel (Front/Rear). Options typically include:
 - **HPF (High Pass Filter):** Allows frequencies above the set point to pass. Useful for full-range speakers.
 - **LPF (Low Pass Filter):** Allows frequencies below the set point to pass. Useful for subwoofers (though this is a full-range amp, LPF can be used for mid-bass).
 - **FULL:** Allows all frequencies to pass through.
- **Sensitivity (SENS):** Adjust the input sensitivity to match the output voltage of your head unit. Start with the sensitivity at minimum and slowly increase until desired volume is achieved without distortion.
- **Status Indicators:** The amplifier features status LEDs (PWR/PRT) to indicate power status and protection mode.

MAINTENANCE

The MX800.4 amplifier is designed for durability. Regular maintenance is minimal but important for long-term performance.

- Keep the amplifier clean and free of dust and debris. Use a soft, dry cloth for cleaning.
- Periodically check all wiring connections to ensure they are secure and free from corrosion.
- Ensure adequate airflow around the amplifier to prevent overheating.
- Do not use harsh chemicals or abrasive cleaners on the amplifier.

TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power / No Sound	Blown fuse; Loose power/ground/remote wire; Amplifier in protection mode.	Check and replace fuse; Verify all connections are secure; Check for shorted speaker wires or low impedance.
Distorted Sound	Gain set too high; Improper crossover settings; Low input signal.	Reduce gain setting; Adjust crossover frequencies; Ensure head unit output is sufficient.
Amplifier Overheats	Insufficient ventilation; Impedance too low; Prolonged high volume use.	Ensure proper airflow around amplifier; Verify speaker impedance matches amplifier's rating; Reduce volume or allow cool-down period.
Noise / Hissing	Poor grounding; RCA cable interference; Engine noise.	Improve ground connection; Reroute RCA cables away from power wires; Install a ground loop isolator if necessary.

SPECIFICATIONS

Detailed technical specifications for the Memphis Audio MX800.4 Amplifier:

- **Item Model Number:** MX800.4
- **Product Dimensions:** 10.24 x 6.69 x 3.94 inches
- **Item Weight:** 1 pound
- **Manufacturer:** Memphis Audio
- **Features:** Compact design, Conformal coated board, IP66 rated water & element resistant, Top mounted controls, Sealed connectors.

WARRANTY AND SUPPORT

The Memphis Audio MX800.4 amplifier comes with a **1-Year Manufacturer Warranty**. For warranty claims or technical support, please contact Memphis Audio customer service or visit their official website. Keep your proof of purchase for warranty validation. For additional support or inquiries, please refer to the official Memphis Audio website or contact your authorized dealer.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question