

Memphis MXA5.600

Memphis MXA5.600 Powersports 5-Channel Amplifier Instruction Manual

Model: MXA5.600

INTRODUCTION

The Memphis MXA5.600 Powersports 5-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 such as UTVs, motorcycles, and marine vehicles. Its ultra-compact size allows for flexible installation in limited spaces, while the efficient Class D design ensures cool operation under demanding conditions. This manual provides essential information for the proper installation, operation, and maintenance of your MXA5.600 amplifier.

PRODUCT FEATURES

- **Ultra-compact design:** Facilitates installation in tight spaces.
- **Element resistant conformal coat board:** Protects internal components from moisture and dust.
- **Sealed wire harnesses:** Ensures secure and protected electrical connections.
- **Efficient Class D design:** Provides high power output with minimal heat generation.
- **Waterproof control covers:** Shields adjustment controls from environmental elements.
- **Bass level control:** Allows for adjustment of low-frequency output.
- **High and low level inputs:** Offers versatility for various audio source connections.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your amplifier. Always disconnect the vehicle's battery before beginning any wiring.

Mounting Location

Choose a mounting location that is secure, dry, and allows for adequate air circulation. Although the MXA5.600 is

element-resistant, avoiding direct exposure to extreme moisture or heat sources is recommended. Ensure the location provides sufficient space for wiring connections and adjustments.



Figure 1: Side view of the Memphis MXA5.600 amplifier, showcasing its compact design.

Wiring Connections

Refer to the wiring diagram on the amplifier and the following guidelines for connections. An 8-gauge amplifier wiring kit is recommended.

- **Power (BATT+):** Connect directly to the positive terminal of the vehicle's battery using an appropriate gauge wire and an inline fuse (not included) within 18 inches of the battery.
- **Ground (GND):** Connect to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid connection for optimal performance and safety.
- **Remote (REM):** Connect to the remote turn-on output of your head unit or a switched 12V source.
- **Speaker Outputs:** Connect speakers to the designated output terminals. Pay close attention to polarity (+/-) for each channel. The MXA5.600 supports 5 channels: 4 full-range channels and 1 subwoofer channel.
- **Input Signals:** Use either high-level (speaker level) inputs or low-level (RCA) inputs from your audio source.



Figure 2: Control panel of the Memphis MXA5.600 amplifier, showing input connections, gain controls, and crossover switches.

Adjustments and Settings

The MXA5.600 features adjustable controls for fine-tuning your audio system:

- **Gain Control (SENS):** Adjust the input sensitivity to match the output of your head unit. Start with the gain at minimum and slowly increase until distortion is audible, then back off slightly.
- **Crossover Switches (X-OVER):**
 - **Front/Rear Channels:** Select between FULL (full range), HPF (High Pass Filter), or LPF (Low Pass Filter) depending on the speakers connected. HPF is typically used for component or coaxial speakers, while LPF is for subwoofers.
 - **Subwoofer Channel:** Typically set to LPF for subwoofer operation.
- **LPF Subsonic:** This control helps filter out extremely low frequencies that are inaudible and can damage subwoofers.
- **Bass Level Control:** An external bass knob (if included or purchased separately) can be connected for convenient bass adjustment.

OPERATING INSTRUCTIONS

Once properly installed and configured, operating your MXA5.600 amplifier is straightforward:

1. Ensure all connections are secure and the vehicle's battery is reconnected.
2. Turn on your vehicle's ignition and audio source. The amplifier should power on automatically via the remote turn-on wire.
3. Play audio at a moderate volume. Listen for clear sound without distortion.
4. Fine-tune gain and crossover settings as needed to achieve desired sound quality. Make small adjustments and re-evaluate the sound.
5. If using a bass level control, adjust it to your preference.

Always ensure the amplifier has adequate ventilation during operation to prevent overheating.

MAINTENANCE

The MXA5.600 amplifier is designed for minimal maintenance due to its rugged construction. However, periodic checks can help ensure long-term performance:

- **Cleaning:** Periodically wipe down the exterior of the amplifier with a soft, damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Connection Check:** Annually, inspect all wiring connections (power, ground, remote, speaker) to ensure they remain tight and free from corrosion.
- **Ventilation:** Ensure that the amplifier's cooling fins are not obstructed by dirt or other objects to maintain proper heat dissipation.

TROUBLESHOOTING

If you experience issues with your MXA5.600 amplifier, consult the following troubleshooting guide before seeking professional assistance:

No Power / Amplifier Not Turning On

- Check the inline fuse on the power wire. Replace if blown.
- Verify the power (BATT+), ground (GND), and remote (REM) connections are secure and have proper voltage.
- Ensure the remote wire is receiving 12V when the head unit is on.

No Sound Output

- Confirm the amplifier is powered on (indicator light).
- Check all input signal cables (RCA or high-level) for secure connection and integrity.
- Verify speaker wires are correctly connected to both the amplifier and speakers, with correct polarity.
- Ensure the head unit is functioning and sending an audio signal.
- Adjust the gain control (SENS) to an appropriate level.

Distorted Sound

- Reduce the gain control (SENS) on the amplifier.
- Check the input signal level from the head unit; it might be too high.
- Ensure speaker impedance matches the amplifier's specifications.

- Verify crossover settings are appropriate for the connected speakers.
- Check for damaged speaker wires or speakers.

Amplifier Overheating

- Ensure adequate ventilation around the amplifier.
- Check speaker impedance; running too low an impedance can cause overheating.
- Reduce the volume or gain settings.

SPECIFICATIONS

The following table details the technical specifications for the Memphis MXA5.600 Powersports 5-Channel Amplifier:

Feature	Specification
RMS Power @ 4Ω	50 x 4 + 200 x 1 Watts
RMS Power @ 2Ω	75 x 4 + 300 x 1 Watts
Bridged/Mono Power @ 4Ω	150 x 2 + N/A Watts
THD% @ 4Ω	<1%
Frequency Response	20Hz - 20kHz
Dimensions (L x W x H)	11.4 x 4 x 1.75 inches
Signal Input Range	150mV - 7.3V
Recommended Amp Kit	8 Gauge
Mounting Type	Surface Mount
Number of Channels	5
Max Output Power	825 Watts
Material	Aluminum
Certifications	CE
Item Weight	4.8 Pounds

WARRANTY AND SUPPORT

The Memphis MXA5.600 Powersports 5-Channel Amplifier comes with a 2-year warranty from the date of purchase, covering defects in materials and workmanship. For warranty claims or technical support, please contact Memphis Audio customer service. Retain your proof of purchase for warranty validation.

For further assistance, please visit the official Memphis Audio website or consult 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