

Memphis ME-AMP80.4

Memphis ME-AMP80.4 Class D 4-Channel Amplifier User Manual

Model: ME-AMP80.4

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Memphis ME-AMP80.4 Class D 4-Channel Amplifier. Please read this manual thoroughly before attempting to install or operate the amplifier to ensure proper use and optimal performance. Keep this manual for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all wiring is properly routed and secured to prevent damage or short circuits.
- Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- Install the amplifier in a location that allows for adequate ventilation to prevent overheating.
- Avoid installing the amplifier in areas exposed to moisture or direct sunlight.
- If you are unsure about any part of the installation process, consult a professional car audio installer.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1x Memphis ME-AMP80.4 Class D 4-Channel Amplifier
- User Manual (this document)
- Mounting hardware (screws, washers)

4. PRODUCT OVERVIEW

The Memphis ME-AMP80.4 Class D 4-channel amplifier is engineered to deliver power, efficiency, and high-quality sound for car audio systems. It provides a maximum power of 1600W and an output of 80W RMS per channel, ensuring stable and precise amplification for speakers. Its Class D architecture enhances energy efficiency and reduces heat generation, contributing to reliable performance. This amplifier is specifically designed for speakers, providing balanced reproduction of mid and high frequencies with detail and power. Integrated protections against overheating, short circuit, and overload ensure safety and durability.

Key Features:

- Class D 4-channel amplifier for car audio systems.
- 1600W Max Power, 80W x4 RMS.
- High energy efficiency with reduced heat generation.
- Professional audio with superior fidelity and performance.
- Integrated protections against overheating, short circuit, and overload.



Figure 4.1: Top view of the Memphis ME-AMP80.4 Class D 4-Channel Amplifier, showcasing its brushed aluminum finish and branding.



Figure 4.2: The Memphis ME-AMP80.4 amplifier installed in a vehicle's trunk, demonstrating its compact size and integration with car audio wiring.

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. Follow these steps carefully:

5.1 Mounting Location

Choose a dry, well-ventilated location away from direct heat sources and moisture. Ensure sufficient space around the amplifier for air circulation. Common locations include under seats, in the trunk, or behind panels.

5.2 Wiring Connections

Refer to Figure 5.1 for the rear panel connections and Figure 5.2 for the front panel controls.



Figure 5.1: Rear panel of the amplifier showing power, ground, remote, fuse, and speaker output terminals.

- **Power (BATT+):** Connect a direct wire from the positive terminal of the vehicle's battery. Use an appropriate gauge wire (e.g., 8 AWG or larger) and install an in-line fuse (not supplied) within 18 inches of the battery.
- **Ground (GND):** Connect a short wire (same gauge as power) from the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection.
- **Remote (REM):** Connect a thin wire from the amplifier's remote terminal to the remote output of your head unit. This turns the amplifier on and off with your car stereo.
- **Speaker Outputs (FL, FR, RL, RR):** Connect your speakers to the corresponding terminals. Ensure correct polarity (+ to + and - to -) for each speaker. This amplifier is designed for speakers, not subwoofers.
- **Fuses:** The amplifier includes integrated fuses. Do not attempt to bypass or replace with higher-rated fuses.

5.3 Audio Input

Connect your head unit's RCA outputs to the amplifier's RCA inputs (IN). Ensure left and right channels are correctly matched.

6. OPERATING INSTRUCTIONS

The ME-AMP80.4 features various controls to fine-tune your audio system. Refer to Figure 6.1 for control locations.

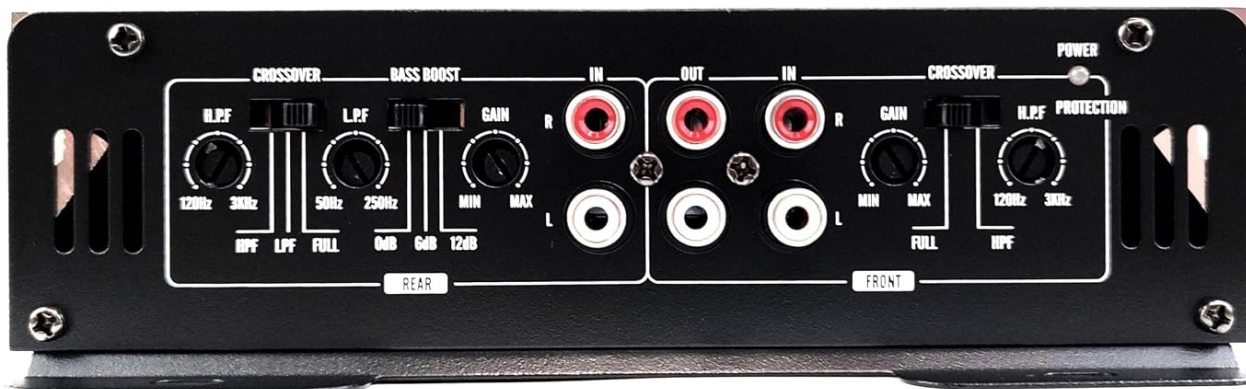


Figure 6.1: Front panel of the amplifier showing input, output, gain, crossover, and bass boost controls.

- **Gain Control (GAIN):** Adjusts the input sensitivity of the amplifier to match the output level of your head unit. Start with the gain at minimum and slowly increase it until you achieve clear, undistorted sound at your desired volume.
- **Crossover (CROSSOVER):** This amplifier features selectable crossover modes for each channel pair (FRONT/REAR).
 - **LPF (Low Pass Filter):** Allows only frequencies below the set point to pass through. Typically used for subwoofers (though this amplifier is speaker-focused, this setting might be available for specific speaker configurations).
 - **HPF (High Pass Filter):** Allows only frequencies above the set point to pass through. Ideal for full-range speakers to prevent distortion from low frequencies.
 - **FULL:** Bypasses the crossover, allowing the full frequency range to pass through.
- **Bass Boost (BASS BOOST):** Provides an adjustable boost to low frequencies. Use sparingly to avoid distortion.

7. MAINTENANCE

The Memphis ME-AMP80.4 amplifier requires minimal maintenance:

- Periodically check all wiring connections to ensure they are secure and free from corrosion.
- Keep the amplifier clean by wiping it with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper heat dissipation.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse; Loose power/ground/remote wire; Faulty remote turn-on signal	Check and replace fuses; Verify all power, ground, and remote connections are secure; Test remote wire for 12V signal.
No Sound Output	Loose RCA cables; Incorrect gain setting; Speaker wires disconnected or shorted; Head unit not sending signal	Check RCA connections; Adjust gain; Inspect speaker wiring for shorts or disconnections; Verify head unit output.
Distorted Sound	Gain set too high; Improper crossover settings; Damaged speakers; Poor ground connection	Reduce gain; Adjust crossover settings; Inspect speakers for damage; Ensure a solid ground connection.
Amplifier Overheating (Protection Mode)	Insufficient ventilation; Speaker impedance too low; Prolonged high volume use	Ensure adequate airflow around the amplifier; Check speaker impedance; Reduce volume or allow amplifier to cool down.

9. SPECIFICATIONS

Feature	Specification
Model	ME-AMP80.4
Amplifier Class	Class D
Number of Channels	4
Maximum Output Power	1600W
RMS Power per Channel	80W x 4
Operating Voltage	12 Volts (DC)
Dimensions (L x W x H)	30 x 17.8 x 5.1 cm (11.8 x 7 x 2 inches)
Weight	1.5 Kilograms (3.3 lbs)
Material	Aluminum

10. WARRANTY AND SUPPORT

10.1 Warranty Information

This product comes with a 30-day warranty from the date of purchase. This warranty covers manufacturing defects. Damage resulting from improper installation, misuse, accident, or unauthorized modification is not covered. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact your authorized

Memphis dealer or the seller from whom you purchased the product. Provide your model number (ME-AMP80.4) and a detailed description of the issue when seeking support.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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