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› Memphis Audio PRXA300.2 Power Reference Series 2-Channel Amplifier User Manual

Memphis PRXA300.2

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User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Memphis Audio PRXA300.2 Power Reference Series 2-Channel Amplifier. The PRXA300.2 is designed to deliver high-quality audio performance and reliability. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to maximize the amplifier's lifespan.



Figure 1: Top view of the Memphis Audio PRXA300.2 Power Reference Series 2-Channel Amplifier. This image displays the sleek black chassis with a prominent blue LED accent light beam and the Memphis logo.

2. KEY FEATURES

- **Diecast Aluminum Heatsink:** Designed for efficient heat dissipation, enhancing reliability and performance.
- **Signal Sensing Auto Turn-On:** Automatically activates the amplifier when an audio signal is detected.
- **Hidden Top Mounted Control Panel:** Provides easy access to amplifier adjustments without requiring tools, located under a magnetic cover.
- **12dB/Octave Butterworth Crossover:** Offers precise frequency filtering for optimal sound tuning.
- **Short Circuit Protection:** Safeguards the amplifier from electrical damage.



Figure 2: Top view of the Memphis Audio PRXA300.2 amplifier, showing the hidden control panel cover. This cover can be removed to access gain and crossover adjustments.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended to have this amplifier installed by a professional.

3.1 Unpacking

Carefully remove the amplifier from its packaging. Verify that all components are present. The box should contain the PRXA300.2 amplifier.

3.2 Wiring Connections

Ensure the vehicle's battery is disconnected before making any power connections.

- **Power (+12V):** Connect a suitable gauge power wire (recommended 8GKIT) directly from the positive terminal of the vehicle's battery to the +12V terminal on the amplifier. An inline fuse (not supplied) must be installed within 18

inches of the battery.

- **Ground (GND):** Connect a wire of the same gauge as the power wire from the GND terminal on the amplifier to a clean, unpainted metal surface of the vehicle's chassis. Ensure a solid electrical connection.
- **Remote (REMOTE):** Connect a remote turn-on wire from your head unit's remote output to the REMOTE terminal on the amplifier. If your head unit does not have a remote output, the amplifier's signal sensing auto turn-on feature can be used.
- **Input (RCA):** Connect RCA cables from your head unit's audio output to the INPUT terminals on the amplifier.
- **Output (Speakers):** Connect your speakers to the OUTPUT terminals. Observe correct polarity (+ to + and - to -).
The PRXA300.2 is a 2-channel amplifier.



Figure 3: Rear panel of the Memphis Audio PRXA300.2 amplifier, illustrating the power, ground, remote, input, and output terminals for wiring connections.

4. OPERATING INSTRUCTIONS

4.1 Initial Power-Up

After all connections are securely made, reconnect the vehicle's battery. Turn on your head unit. The amplifier should power on, indicated by the blue LED accent light.

4.2 Adjusting Controls

The amplifier's controls (gain, crossover) are located under the magnetic top panel cover.

- **Gain Control:** Adjust the gain control to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until the desired volume is achieved without distortion.
- **Crossover (LPF/HPF):** The 12dB/octave Butterworth crossover allows you to filter frequencies.
 - **LPF (Low Pass Filter):** Allows frequencies below the set point to pass through. Useful for subwoofers.
 - **HPF (High Pass Filter):** Allows frequencies above the set point to pass through. Useful for full-range speakers.

Adjust the crossover frequency according to your speaker's specifications and desired sound.

4.3 Signal Sensing Auto Turn-On

If the remote wire is not used, the amplifier can detect an audio signal from the RCA inputs and automatically turn on. This feature is useful for head units without a dedicated remote output.

5. MAINTENANCE

The Memphis Audio PRXA300.2 amplifier is designed for durability and requires minimal maintenance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the amplifier has adequate ventilation. The diecast aluminum heatsink is designed to dissipate heat, but restricted airflow can lead to overheating. Do not block the cooling fins.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.

6. TROUBLESHOOTING

If you experience issues with your amplifier, consult the following troubleshooting guide before contacting support.

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse Loose power or ground connection Faulty remote turn-on signal Signal sensing not active or no input signal	Check and replace fuse (if necessary). Verify all power and ground connections are secure. Check remote wire connection or ensure signal sensing is enabled and receiving an audio signal.
No Sound Output	Loose RCA input cables Incorrect speaker wiring Gain set too low Head unit volume too low	Check RCA connections at both amplifier and head unit. Verify speaker wiring for correct polarity and secure connections. Increase gain setting gradually. Increase head unit volume.

Problem	Possible Cause	Solution
Distorted Sound	Gain set too high Improper crossover settings Speaker impedance mismatch	Decrease gain setting. Adjust crossover frequencies. Ensure speakers are compatible with amplifier's impedance ratings.
Amplifier Overheats	Insufficient ventilation Speaker impedance too low	Ensure adequate airflow around the amplifier. Verify speaker impedance is within the amplifier's specified range.

7. SPECIFICATIONS

Technical specifications for the Memphis Audio PRXA300.2 Power Reference Series 2-Channel Amplifier.

Specification	Value
RMS Power @ 4Ω (watts)	100 x 2
RMS Power @ 2Ω (watts)	150 x 2
Bridged/Mono Power @ 4Ω (watts)	300 x 1
THD% @ 4Ω	<1%
Frequency Response	20Hz - 180Hz
Dimensions L x W x H (inches)	13.2 x 7.5 x 2.1
Input Range	220mV - 6V
Recommended Amp Kit	8GKIT
Voltage	6 Volts (DC)
Maximum Supply Voltage	6 Volts
Minimum Supply Voltage	0.22 Volts

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The Memphis Audio PRXA300.2 amplifier comes with a **1-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, accident, abuse, misuse, natural disaster, or unauthorized modification.

8.2 Customer Support

For technical assistance, warranty service, or further inquiries, please contact Memphis Audio customer support. Refer to the official Memphis Audio website for current contact information.

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