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Memphis Audio PRX800.1V2

Memphis Audio PRX800.1V2 Monoblock Subwoofer Amplifier User Manual

Model: PRX800.1V2

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Memphis Audio PRX800.1V2 Monoblock Subwoofer Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety. The PRX800.1V2 is designed to deliver powerful and precise bass, optimized for driving subwoofers with 800 Watts RMS at 1-Ohm.

SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

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

WHAT'S IN THE BOX

Upon opening the package, verify that all components are present:

- Memphis Audio PRX800.1V2 Monoblock Subwoofer Amplifier unit
- Mounting hardware (screws)
- User Manual (this document)

SETUP AND INSTALLATION

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

Mounting the Amplifier

Choose a secure location for mounting the amplifier, such as under a seat, in the trunk, or on an amplifier rack. Ensure the location provides sufficient airflow around the amplifier to prevent overheating. Use the provided mounting hardware to secure the amplifier firmly.



Image: The Memphis Audio PRX800.1V2 amplifier, highlighting its compact design suitable for various mounting locations.

Wiring Connections

All wiring should be done with the vehicle's battery disconnected. Use high-quality, appropriate gauge wiring for all connections.

1. **Power Connection (+12V):** Connect a fused power cable directly from the positive terminal of the vehicle's battery to the +12V terminal on the amplifier. The fuse holder should be located within 18 inches of the battery.
2. **Ground Connection (GND):** Connect a ground cable of the same gauge as the power cable from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, low-resistance connection.
3. **Remote Turn-On (REM):** Connect a remote turn-on wire from your head unit's remote output to the REM terminal on the amplifier. This wire signals the amplifier to turn on and off with your head unit.
4. **Speaker Output (SPEAKER OUT):** Connect your subwoofer(s) to the SPEAKER OUT terminals. Ensure correct polarity (+ to + and - to -) and that the total impedance matches the amplifier's capabilities (1-Ohm stable).
5. **RCA Input (INPUT):** Connect RCA cables from your head unit's subwoofer output to the INPUT RCA jacks on the amplifier.



Image: Rear panel of the PRX800.1V2 amplifier, illustrating the power, ground, remote, speaker output, and RCA input terminals.

OPERATING AND ADJUSTMENTS

Once installed, you can power on your amplifier and make necessary adjustments for optimal sound.

Initial Power-Up

After all connections are made and verified, reconnect the vehicle's battery. Turn on your head unit. The amplifier should power on, indicated by its LED lighting. If the amplifier does not power on, refer to the Troubleshooting section.



Image: The PRX800.1V2 amplifier with its distinctive blue LED ground effects illuminated, indicating power is on.

Gain Adjustment

The gain control matches the amplifier's input sensitivity to the output of your head unit. To set the gain:

1. Turn the amplifier's gain control to its minimum (fully counter-clockwise) position.
2. Set your head unit's volume to about 75-80% of its maximum.
3. Play a dynamic piece of music with strong bass.
4. Slowly increase the amplifier's gain control until you hear distortion, then back it off slightly until the sound is clean.

Note: The gain control is not a volume knob. Setting it too high can cause distortion and damage to your speakers or amplifier.

Crossover Adjustment (Low Pass Filter)

The PRX800.1V2 features a built-in low-pass filter (LPF) to ensure only low frequencies are sent to your subwoofer. Adjust the LPF frequency to blend smoothly with your main speakers. A common starting point is between 80Hz and 120Hz. Experiment to find the best setting for your system.

Bass Boost

Use the bass boost control sparingly. Excessive bass boost can lead to distortion and potential damage to your subwoofer. Adjust it incrementally to enhance bass response if desired, but always prioritize clean sound.

Remote Level Control

If your amplifier includes a remote level control, connect it to the 'REMOTE' port. This allows for convenient adjustment of the subwoofer's output level from the driver's seat.

MAINTENANCE

The Memphis Audio PRX800.1V2 amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's cooling fins are free from obstructions to maintain proper airflow.

- **Connections:** Occasionally check all power, ground, remote, and speaker connections to ensure they are secure and free from corrosion.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Amplifier does not turn on	No power, poor ground, no remote signal, blown fuse	Check +12V power connection and fuse. Verify ground connection. Check remote turn-on wire from head unit.
No sound output	No input signal, incorrect gain setting, speaker wiring issue	Check RCA input cables. Adjust gain. Verify speaker connections and impedance.
Distorted sound	Gain set too high, improper crossover setting, damaged speaker	Reduce gain. Adjust LPF. Inspect subwoofer for damage.
Amplifier overheats	Insufficient ventilation, impedance too low, prolonged high output	Ensure proper airflow around amplifier. Check subwoofer impedance. Reduce listening volume.
Protection mode activated	Short circuit, overheating, low voltage	Check speaker wiring for shorts. Allow amplifier to cool. Verify vehicle's battery voltage.

SPECIFICATIONS

Technical specifications for the Memphis Audio PRX800.1V2 Monoblock Subwoofer Amplifier:

- **Model:** PRX800.1V2
- **Output Power:** 800 Watts RMS x 1 at 1-Ohm
- **Number of Channels:** 1 (Monoblock)
- **Material Type:** Aluminum
- **Mounting Type:** Surface Mount
- **Item Weight:** 4.2 Pounds
- **Included Components:** PRX800.1V2 Amplifier
- **Certifications:** CE, FCC, RoHS, WEEE
- **UPC:** 702588008040

WARRANTY INFORMATION

The Memphis Audio PRX800.1V2 Monoblock Subwoofer Amplifier is covered by a **1-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or contact Memphis Audio customer support.

SUPPORT

For further assistance, technical support, or warranty inquiries, please visit the official Memphis Audio website or contact their customer service department. You can also find additional resources and product information on the [Memphis Audio Brand Store](#).

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