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Memphis PRXS1224

Memphis Audio PRXS1224 Power Reference Slim Subwoofer User Manual

Model: PRXS1224 | Brand: Memphis Audio

1. Product Overview

The Memphis Audio PRXS1224 Power Reference Slim Subwoofer is engineered for high-quality bass reproduction in a compact design. It features selectable impedance, advanced cooling technology, and durable construction for reliable performance.

Figure 1: Front view of the Memphis Audio PRXS1224 Power Reference Slim Subwoofer, showcasing the black on black polypropylene cone with the Memphis logo.

Key Features:

- **Selectable Impedance:** Easily switch between 2Ω or 4Ω to match your amplifier's requirements.
- **DVVC Direct Voice Coil Cooling Technology:** Ensures optimal thermal management for extended performance.
- **Black on Black Polypropylene Cone:** Provides a rigid yet lightweight surface for accurate bass response.
- **Reinforced Spider:** Enhances durability and cone control.
- **Improved Suspension and Coil Design:** Contributes to enhanced sound quality and longevity.
- **Woven Tinsel Leads:** Durable and flexible connections for reliable signal transfer.
- **High Temperature BASV Voice Coil Former:** Designed to withstand high power levels.

2. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your subwoofer. It is recommended to have

installation performed by a qualified professional.

2.1 Impedance Selection

The PRXS1224 features selectable impedance, allowing you to configure it for either 2Ω or 4Ω operation. Ensure the impedance setting matches your amplifier's stable operating impedance to prevent damage to your equipment.

Figure 2: Side view of the subwoofer highlighting the impedance selection switch.

2.2 Wiring Connections

Connect the subwoofer to your amplifier using appropriate gauge speaker wire. Ensure correct polarity (+ to + and - to -) for optimal sound reproduction. The subwoofer utilizes spade terminals for secure connections.

Figure 3: Close-up of the subwoofer's spade terminals for wiring connections.

Figure 4: Rear view of the subwoofer, showing the overall structure and terminal placement.

2.3 Enclosure Requirements

For best performance, install the subwoofer in a suitable enclosure. Refer to the specifications section for mounting depth and cut-out diameter to ensure compatibility with your chosen enclosure.

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Video 1: Memphis Power Reference Series Woofer - Product Overview. This video provides a general overview of the Power Reference series woofers, including discussion on their design and intended use with preloaded enclosures.

3. Operating Guidelines

To ensure the longevity and optimal performance of your Memphis Audio subwoofer, adhere to the following operating guidelines:

- **Power Matching:** Ensure your amplifier's RMS power output is within the recommended range for the subwoofer (350W RMS). Overpowering or underpowering can lead to damage.
- **Gain Setting:** Properly set the gain on your amplifier to prevent clipping, which can distort the audio signal and harm the subwoofer.

- **Crossover Settings:** Utilize a low-pass filter on your amplifier or head unit to send only low-frequency signals to the subwoofer, optimizing its performance and protecting it from higher frequencies.
- **Break-in Period:** Allow a short break-in period (typically 10-20 hours of moderate use) for the subwoofer's suspension to loosen up, which can improve sound quality.

4. Maintenance

The Memphis Audio PRXS1224 subwoofer is designed for durability. Minimal maintenance is required to keep it in excellent condition:

- **Cleaning:** Periodically wipe the cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Regularly inspect the speaker cone, surround, and connections for any signs of wear, tear, or damage.
- **Environmental Factors:** Protect the subwoofer from extreme temperatures, direct sunlight, and excessive moisture, which can degrade materials over time.

5. Troubleshooting

If you experience issues with your subwoofer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound	Loose or incorrect wiring; Amplifier off or in protect mode; Blown fuse.	Check all wiring connections and polarity. Verify amplifier power and status. Inspect and replace fuses if necessary.
Distorted Sound	Amplifier gain set too high (clipping); Incorrect crossover settings; Damaged cone or voice coil.	Reduce amplifier gain. Adjust crossover settings. Inspect subwoofer for physical damage.
Weak Bass Output	Incorrect impedance setting; Insufficient amplifier power; Improper enclosure.	Verify impedance setting matches amplifier. Ensure amplifier provides adequate RMS power. Check enclosure volume and design.

If the problem persists after attempting these solutions, contact Memphis Audio customer support or a certified car audio technician.

6. Specifications

Feature	Detail
Model Number	PRXS1224
RMS/PEAK Power (W)	350 / 700
Sensitivity (dB)	85.6 @ 2Ω, 86.3 @ 4Ω
Magnet Size (OZ)	50
Mounting Depth (IN)	3
Cut Out Diameter (IN)	11
Item Weight	13.2 pounds

Feature	Detail
Package Dimensions	14.2 x 13.8 x 5 inches
Manufacturer	Memphis Audio

7. Warranty Information

Memphis Audio products are designed and manufactured to the highest quality standards. This product is covered by a limited warranty against defects in materials and workmanship. For specific warranty terms, conditions, and duration, please refer to the warranty card included with your product or visit the official Memphis Audio website.

8. Customer Support

For technical assistance, product inquiries, or warranty claims, please contact Memphis Audio customer support. You can find contact information and additional resources on the official Memphis Audio website:
Visit the Memphis Audio Store on Amazon
Always refer to the latest information available on the manufacturer's official channels for the most up-to-date support and product details.

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