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Memphis Audio MB1224

Memphis Audio MB1224 12-inch MSeries MB Subwoofer Instruction Manual

1. INTRODUCTION

Thank you for choosing the Memphis Audio MB1224 12-inch MSeries MB Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your new subwoofer. To ensure optimal performance and longevity, please read these instructions thoroughly before installation and use. This subwoofer features selectable 2 or 4 Ohm impedance, offering flexibility for various car audio system configurations.



Figure 1: Front view of the Memphis Audio MB1224 12-inch MSeries MB Subwoofer.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage and electrical hazards.
- Avoid mounting the subwoofer in locations that obstruct vehicle operation or safety features.
- Use appropriate gauge wiring for power and speaker connections to handle the subwoofer's power requirements.
- Do not expose the subwoofer to excessive moisture or extreme temperatures.
- Seek professional installation if you are unsure about any steps.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Memphis Audio MB1224 12-inch MSeries MB Subwoofer
- Jumper cables (for impedance selection)
- Instruction Manual (this document)

4. SPECIFICATIONS

Key technical specifications for the MB1224 Subwoofer:

Specification	Value
Model Name	MB1224
Speaker Type	Subwoofer
Subwoofer Diameter	12 Inches (30.48 cm)
Material	Aluminum
Item Weight	13 Pounds
RMS Power Handling	500 Watts
Peak Power Handling	1000 Watts
Impedance	Selectable 2 or 4 Ohms
Connectivity Technology	Wired
Compatible Devices	Car Audio System
Included Components	Jumper cables

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your subwoofer. If you are not experienced with car audio installation, it is highly recommended to seek professional assistance.

5.1 Mounting the Subwoofer

The MB1224 subwoofer is designed for installation in a suitable enclosure (not included). Ensure the enclosure is robust and properly sealed for optimal bass response. Secure the subwoofer firmly to the enclosure using appropriate screws, ensuring a tight seal around the mounting flange.



Figure 2: Top view of the MB1224 subwoofer, showing the cone and mounting holes.

5.2 Wiring and Impedance Selection

The MB1224 features selectable impedance (2 Ohm or 4 Ohm) using the included jumper cables. This allows you to configure the subwoofer to match your amplifier's capabilities. Always ensure your amplifier is stable at the selected impedance.

5.2.1 4 Ohm Wiring Configuration

To configure the subwoofer for a 4 Ohm load, connect the included jumper cable between the two positive terminals and another jumper cable between the two negative terminals. Then, connect your amplifier's positive output to one of the positive terminals and the amplifier's negative output to one of the negative terminals. Refer to Figure 3 for a visual guide.



Figure 3: Rear view of the MB1224 subwoofer showing the 4 Ohm wiring configuration using jumper cables.

5.2.2 2 Ohm Wiring Configuration

To configure the subwoofer for a 2 Ohm load, connect the included jumper cable from the positive terminal of one voice coil to the negative terminal of the other voice coil. Then, connect your amplifier's positive output to the remaining positive terminal and the amplifier's negative output to the remaining negative terminal. Refer to Figure 4 for a visual guide.



Figure 4: Rear view of the MB1224 subwoofer showing the 2 Ohm wiring configuration using jumper cables.

5.2.3 Terminal Block Overview

The subwoofer features a robust terminal block for secure connections. Ensure all connections are tight and free from corrosion.



Figure 5: Close-up view of the MB1224 subwoofer's terminal block, indicating wiring options.

6. OPERATING INSTRUCTIONS

6.1 Break-in Period

Allow a break-in period of approximately 10-20 hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components to loosen and achieve optimal performance.

6.2 Amplifier Settings

Properly setting your amplifier's gain, crossover, and bass boost is critical. Start with the gain at its lowest setting and slowly increase it until you achieve the desired volume without distortion. Set the low-pass filter (LPF) on your amplifier to prevent high frequencies from reaching the subwoofer, typically between 80Hz and 120Hz. Avoid excessive bass boost, as this can lead to distortion and potential damage.

7. MAINTENANCE

The Memphis Audio MB1224 subwoofer requires minimal maintenance:

- Periodically inspect the subwoofer cone and surround for any signs of damage or wear.
- Ensure all wiring connections remain secure and free from corrosion.
- Clean the subwoofer's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Keep the subwoofer free from dust and debris, especially if it is not enclosed.

8. TROUBLESHOOTING

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


Problem	Possible Cause	Solution
No sound from subwoofer	No power to amplifier, incorrect wiring, amplifier in protect mode, low input signal.	Check amplifier power and ground connections. Verify all speaker wires are correctly connected and secure. Check amplifier fuses. Ensure head unit is sending a signal.
Distorted or unclear sound	Amplifier gain set too high, incorrect crossover settings, damaged subwoofer, poor enclosure.	Reduce amplifier gain. Adjust LPF settings. Inspect subwoofer cone and surround for damage. Ensure enclosure is sealed and properly sized.
Subwoofer cuts out intermittently	Loose wiring connections, amplifier overheating, impedance mismatch.	Check all wiring connections for tightness. Ensure amplifier has adequate ventilation. Verify subwoofer impedance matches amplifier's stable operating range.
Subwoofer is too quiet	Amplifier gain too low, incorrect phase setting, low input signal.	Increase amplifier gain gradually. Check phase setting on amplifier or head unit. Ensure head unit volume is adequate.






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

9. WARRANTY AND SUPPORT

Memphis Audio products are designed and manufactured to the highest standards. This product comes with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official Memphis Audio website. For technical support or service inquiries, please contact Memphis Audio customer service directly.

Related Documents - MB1224

	<p>Memphis Audio CANAMX310SE OEM Subwoofer Enclosure for Can-Am Maverick X3 - Installation & Wiring Guide</p> <p>Comprehensive installation and wiring guide for the Memphis Audio CANAMX310SE OEM Direct Fit Powered Subwoofer Enclosure, designed for the 2017 and newer Can-Am Maverick X3. Includes product features, warranty information, and details on expanding your system.</p>
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	<p>Memphis Audio MOJO MINI Subwoofer Series - Technical Specifications and Warranty</p> <p>Detailed technical specifications, enclosure recommendations, wiring diagrams, and warranty information for the Memphis Audio MOJO MINI subwoofer series, including models MJM622, MJM644, MJM822, and MJM844.</p>
	<p>Memphis Audio Mojo Mini Subwoofer Specifications & Wiring Guide</p> <p>Detailed specifications, dimensions, and wiring instructions for Memphis Audio Mojo Mini subwoofers, including models MJM622, MJM644, MJM822, and MJM844.</p>
	<p>Memphis Audio MOJO MINI Subwoofer Specifications and Warranty</p> <p>Detailed specifications, physical dimensions, enclosure recommendations, and limited warranty information for the Memphis Audio MOJO MINI series component subwoofers, including MJM612 and MJM812 models.</p>
	<p>Memphis Audio VIV60V2 SixFive Series Coaxial Speakers - Product Overview & Specs</p> <p>Detailed product information for Memphis Audio VIV60V2 coaxial car speakers, including features, specifications, installation guide, wiring diagram, crossover adjustments, and warranty.</p>
	<p>Memphis Audio M Series Car Speakers: Installation, Wiring, and Warranty Guide</p> <p>Comprehensive guide for Memphis Audio M Series car speakers (MS57V, MS60V, MS62V, MS69V, MSAIV), covering coaxial and component wiring, convertible speaker instructions, tweeter mounting, crossover mounting, and warranty information.</p>