

Memphis MS52

Memphis Audio MS52 5.25" Convertible Speaker Set User Manual

Model: MS52

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Memphis Audio MS52 5.25" Convertible Speaker Set. Please read this manual thoroughly before attempting installation or operation to ensure proper function and safety. Retain this manual for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery negative terminal before starting any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated to prevent electrical shorts and damage to components.
- Mount speakers securely to prevent them from becoming loose during vehicle operation.
- Avoid installing speakers in locations that obstruct airbags or other safety features.
- Do not operate the audio system at excessively high volumes for prolonged periods, as this can cause hearing damage.
- Consult a professional installer if you are unsure about any part of the installation process.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- MS52 5.25" Convertible Speakers (Pair)
- External Passive Crossovers (Pair)
- Mounting Hardware
- Instruction Manual

4. PRODUCT FEATURES

The Memphis Audio MS52 Convertible Speaker Set offers advanced features for superior audio performance:

- **Multi-mount Tweeter:** Provides flexible installation options for optimal sound staging.
- **Convertible Design:** Allows the tweeter to swivel, maintaining sound directionality even after installation.
- **Carbon Fiber Cone:** Delivers accurate and responsive bass reproduction.
- **External Passive Crossovers:** Ensures proper frequency distribution between the woofer and tweeter for clear sound.
- **MClip Crossover Mounting Solution:** Simplifies the installation and securing of the crossovers.

5. INSTALLATION

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

5.1 Speaker Overview



Figure 1: Front view of the MS52 speaker, showing the carbon fiber cone and integrated tweeter.



Figure 2: Side view of the MS52 speaker, illustrating its depth and wiring terminals.

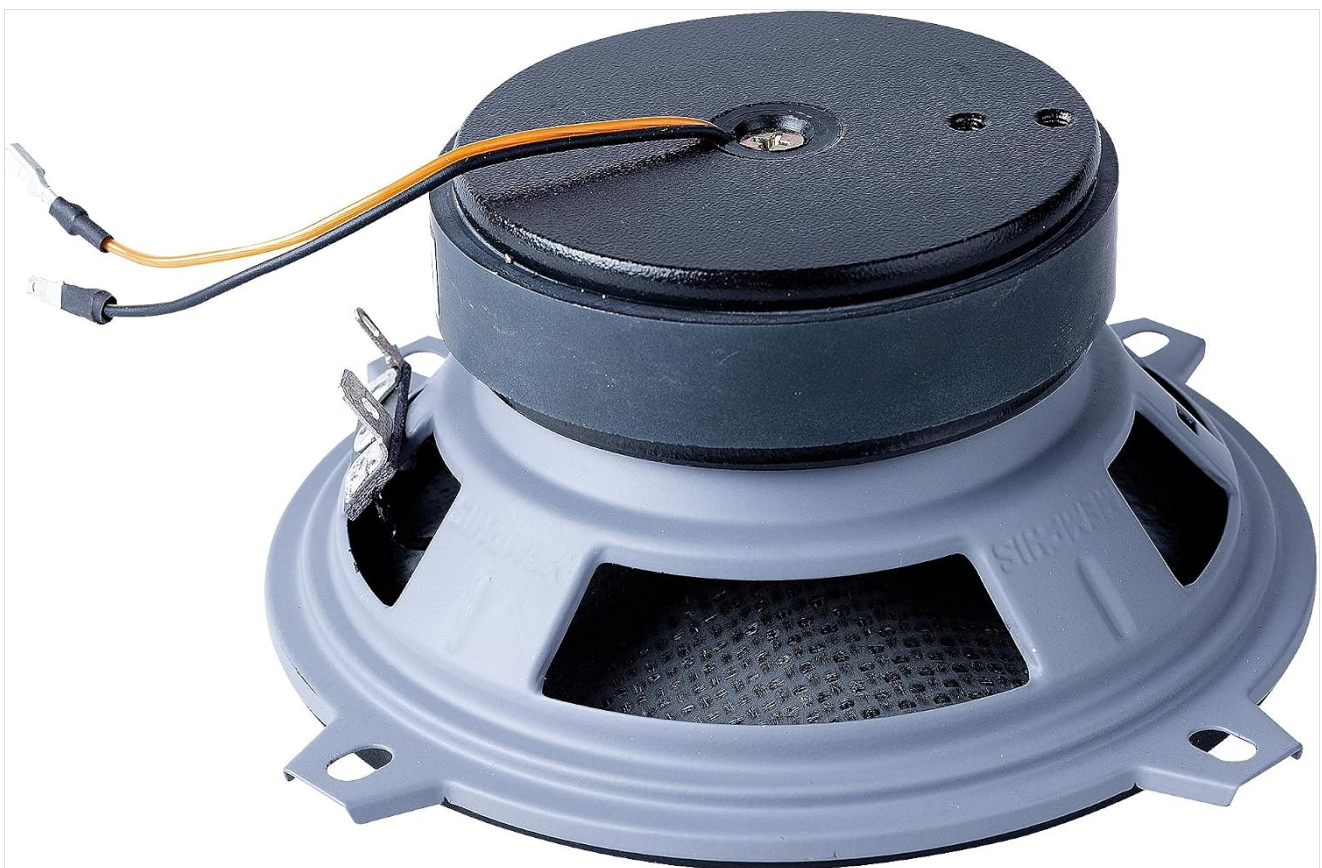


Figure 3: Rear view of the MS52 speaker, showing the magnet structure and connection points.

5.2 Convertible Tweeter Design

The MS52 features a unique convertible design, allowing the tweeter to be mounted coaxially or separated for component-style installation. This provides flexibility for optimizing sound staging in your vehicle.



Figure 4: The MS52 speaker demonstrating its convertible tweeter design, allowing for separation from the woofer.



Figure 5: Close-up view of the unique removable swivel tweeter, highlighting its multi-mount capability.



Figure 6: The complete MS52 convertible speaker set, including woofers, tweeters, and external crossovers.

5.3 Crossover Installation

The external passive crossovers are essential for directing the correct frequencies to the woofer and tweeter. Mount them in a dry, secure location, away from heat sources and moving parts.



Figure 7: Example of tweeters and external passive crossovers, illustrating the MClip mounting solution.

Connect the input terminals of the crossover to your amplifier's speaker outputs. Connect the woofer and tweeter outputs from the crossover to their respective speakers. Ensure correct polarity (+ to + and - to -) for all connections.

5.4 Wiring Diagram (General)

A typical wiring configuration involves connecting the amplifier output to the crossover input. The crossover then splits the signal, sending low frequencies to the 5.25" woofer and high frequencies to the tweeter. Refer to the specific wiring diagram included with your product for precise connections.

- **Amplifier Output (+) → Crossover Input (+)**
- **Amplifier Output (-) → Crossover Input (-)**
- **Crossover Woofer Output (+) → Woofer (+)**
- **Crossover Woofer Output (-) → Woofer (-)**
- **Crossover Tweeter Output (+) → Tweeter (+)**
- **Crossover Tweeter Output (-) → Tweeter (-)**

6. OPERATION

Once installed, connect your audio source (e.g., car stereo, head unit) to your amplifier, and ensure the amplifier is properly powered. The MS52 speakers are designed to reproduce a wide range of frequencies with clarity. Adjust your head unit's settings (bass, treble, balance, fader) to achieve your preferred sound. Start with low volume and gradually increase it to avoid damage to the speakers or your hearing.

7. MAINTENANCE

The Memphis Audio MS52 speakers require minimal maintenance:

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the speaker cones and grilles. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Inspect speaker surrounds for any signs of damage or wear.
- **Environment:** Ensure the speakers are not exposed to excessive moisture or extreme temperatures, which can affect performance and longevity.

8. TROUBLESHOOTING

If you encounter issues with your MS52 speaker set, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Loose or disconnected wiring Amplifier not powered on Incorrect crossover connections Blown fuse in amplifier or vehicle	Check all speaker, amplifier, and crossover connections. Verify amplifier power and remote turn-on. Ensure crossover inputs/outputs are correctly wired. Inspect and replace any blown fuses.
Distorted or unclear sound	Gain settings on amplifier too high Incorrect crossover settings Damaged speaker cone or surround Poor quality audio source	Adjust amplifier gain to an appropriate level. Ensure crossover settings match speaker requirements. Inspect speakers for physical damage. Test with a different audio source.
One speaker not working	Loose connection to that specific speaker Faulty speaker or crossover channel	Check wiring for the non-working speaker. Swap speakers or crossover channels (if possible) to isolate the fault.

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

9. SPECIFICATIONS

Key technical specifications for the Memphis Audio MS52 5.25" Convertible Speaker Set:

Specification	Value
Brand	Memphis
Model Number	MS52-UOB
Speaker Size	5.25 Inches
Speaker Maximum Output Power	100 Watts
Impedance	8 Ohms
Connectivity Technology	Coaxial
Audio Output Mode	Surround
Mounting Type	Coaxial
Speaker Type	Tweeter (Convertible)
Woofer Diameter	5.25 Inches
Item Weight	10 Pounds
Item Dimensions (D x W x H)	10"D x 10"W x 10"H

10. WARRANTY AND SUPPORT

Memphis Audio products are designed for durability and performance. This product comes with a**Limited Warranty**. Please refer to the warranty card included with your purchase or visit the official Memphis Audio website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact Memphis Audio customer service through their official website or authorized dealers. When contacting support, please have your product model number (MS52) and proof of purchase available.

ASK A QUESTION ABOUT THIS MANUAL

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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.

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