

Memphis 15-CM15D2C

Memphis 15-CM15D2C 15" MOJO Re-Cone Kit Subwoofer Cartridge User Manual

Model: 15-CM15D2C

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Memphis 15-CM15D2C 15" MOJO Re-Cone Kit Subwoofer Cartridge. This kit is designed to restore the performance of your Memphis MOJO 15-inch subwoofer by replacing the cone, voice coil, and spider assembly. Please read this manual thoroughly before attempting any installation to ensure proper function and longevity of your subwoofer.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- **Disconnect Power:** Before beginning any work, ensure the subwoofer is disconnected from all power sources and amplifiers.
- **Eye Protection:** Wear appropriate eye protection to prevent injury from debris or adhesives.
- **Ventilation:** Work in a well-ventilated area, especially when using adhesives or solvents.
- **Proper Tools:** Use only appropriate tools for the task. Incorrect tools can cause damage to the subwoofer or personal injury.
- **Professional Assistance:** If you are unsure about any step of the re-coning process, it is highly recommended to seek assistance from a qualified audio technician.
- **Handle with Care:** The voice coil and cone assembly are delicate. Handle all components with care to avoid damage.

3. PRODUCT OVERVIEW

The Memphis 15-CM15D2C Re-Cone Kit provides a complete replacement cartridge for your 15-inch MOJO subwoofer. This kit includes a superior voice coil assembly with a new voice coil former design that strengthens and improves assembly precision, ensuring optimal performance and durability. The cartridge typically includes the cone, surround, voice coil, spider, and lead wires, pre-assembled for easier installation.



Figure 3.1: Top view of the Memphis 15-CM15D2C MOJO subwoofer re-cone kit. This image displays the black cone and the durable rubber surround, which are key components for sound reproduction.



Figure 3.2: Side view of the Memphis 15-CM15D2C MOJO subwoofer re-cone kit. This perspective shows the sturdy cast aluminum basket and the spring-loaded terminal connections for speaker wire attachment.



Figure 3.3: Bottom view of the Memphis 15-CM15D2C MOJO subwoofer re-cone kit. This image illustrates the robust magnet assembly and the central voice coil former, crucial for the subwoofer's motor structure.



Figure 3.4: Close-up view of the voice coil and terminal connections. This detailed shot highlights the precision engineering of the voice coil assembly and the secure wiring points.

4. INSTALLATION (RE-CONING PROCESS)

The re-coning process requires precision and patience. If you are not experienced with subwoofer repair, professional installation is strongly recommended. This section provides a general guide; specific adhesives and curing times may vary.

4.1 Tools and Materials Required (Not Included)

- Sharp utility knife or razor blade
- Adhesive remover/solvent (e.g., acetone, isopropyl alcohol)
- High-strength, flexible speaker adhesive (e.g., rubber cement, epoxy designed for speakers)
- Shims (for centering the voice coil)
- Soldering iron and solder (for lead wires)
- Cleaning cloths/rags
- Gloves

4.2 Disassembly of Old Cone Assembly

1. Carefully cut around the outer edge of the old surround where it attaches to the speaker frame (basket) using a utility knife.
2. Cut around the dust cap and remove it.
3. Desolder the lead wires from the speaker terminals.
4. Carefully cut the spider where it attaches to the basket and the voice coil former.
5. Remove the old cone, voice coil, and spider assembly.

6. Thoroughly clean the speaker frame, magnet gap, and terminal connections. Remove all old adhesive residue. Ensure the magnet gap is free of any debris.

4.3 Installation of New Re-Cone Kit

1. **Center the Voice Coil:** Insert the new re-cone cartridge into the speaker frame. Carefully insert shims into the magnet gap around the voice coil to ensure it is perfectly centered and cannot rub against the magnet pole piece.
2. **Attach Spider:** Apply a thin, even layer of speaker adhesive to the mounting surface of the spider where it meets the speaker frame. Press the spider firmly onto the frame and allow it to cure according to the adhesive manufacturer's instructions.
3. **Attach Surround:** Apply adhesive to the outer edge of the surround where it meets the speaker frame. Press the surround firmly onto the frame, ensuring an airtight seal. Allow to cure.
4. **Solder Lead Wires:** Carefully solder the new lead wires from the voice coil to the speaker terminals, ensuring correct polarity (+ to + and - to -).
5. **Attach Dust Cap:** Apply adhesive to the rim of the dust cap and center it over the voice coil opening. Press firmly and allow to cure.
6. **Final Curing:** Allow all adhesives to fully cure for the recommended time before testing the subwoofer. This is crucial for long-term durability.

5. OPERATION (AFTER RE-CONING)

Once the re-cone kit is fully installed and cured, the subwoofer is ready for operation. Proper break-in and usage are essential for optimal performance and longevity.

5.1 Break-In Period

A new re-cone kit requires a break-in period to allow the suspension components (surround and spider) to loosen and reach their optimal compliance. During this period:

- Operate the subwoofer at moderate volume levels for approximately 10-20 hours of play time.
- Avoid playing at maximum volume or with excessive bass boost during break-in.

5.2 Recommended Usage

- **Amplifier Matching:** Ensure your amplifier's power output matches the subwoofer's RMS power handling (600 Watts).
- **Gain Settings:** Set amplifier gain correctly to avoid clipping, which can damage the voice coil.
- **Enclosure:** Use the subwoofer in a properly designed and constructed enclosure for optimal sound quality and protection.
- **Listen for Distortion:** If you hear any distortion, reduce the volume immediately. Distortion indicates the subwoofer is being overdriven.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your re-coned subwoofer.

- **Cleaning:** Periodically wipe the cone and surround with a soft, damp cloth to remove dust and dirt. Avoid using harsh chemicals.
- **Inspection:** Regularly inspect the surround, cone, and dust cap for any signs of cracks, tears, or separation from the frame. Check terminal connections for corrosion or looseness.
- **Environmental Factors:** Protect the subwoofer from extreme temperatures, direct sunlight, and excessive moisture.

7. TROUBLESHOOTING

If you encounter issues after re-coning, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound	• Incorrect wiring/polarity • Loose terminal connections • Voice coil damaged during installation • Amplifier issue	• Verify wiring and polarity. • Check and secure all connections. • Inspect voice coil for damage (e.g., open circuit). • Test amplifier with another speaker.
Distorted Sound	• Voice coil rubbing • Adhesive not fully cured • Overdriving the subwoofer • Damaged cone/surround	• Check voice coil centering; re-shim if necessary. • Allow more time for adhesive to cure. • Reduce amplifier gain/volume. • Inspect for physical damage to cone or surround.
Buzzing/Rattling Noise	• Voice coil rubbing • Loose parts in enclosure • Poor adhesive bond • Debris in magnet gap	• Re-check voice coil centering. • Inspect enclosure for loose components. • Check all adhesive joints for separation. • Carefully inspect and clean magnet gap.

8. SPECIFICATIONS

The following specifications apply to the Memphis 15-CM15D2C 15" MOJO Re-Cone Kit Subwoofer Cartridge:

- **Model:** 15-CM15D2C
- **Speaker Type:** Subwoofer Re-Cone Kit
- **Woofer Diameter:** 15 Inches
- **Speaker Maximum Output Power:** 600 Watts
- **Material:** Paper Composite (Cone/Enclosure Material)
- **Mounting Type:** Flush Mount (for original subwoofer)
- **Voice Coil:** Superior Voice Coil Assembly with new former design
- **UPC:** 702588139379

9. WARRANTY INFORMATION

Memphis Audio products are manufactured to high-quality standards. This re-cone kit is intended as a replacement part. Warranty coverage for re-cone kits typically applies to manufacturing defects of the kit itself, not to damage incurred during installation or subsequent use. Please refer to the original product warranty documentation or contact Memphis Audio directly for specific warranty terms and conditions regarding replacement parts.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or further information regarding your Memphis 15-CM15D2C Re-Cone Kit, please contact Memphis Audio customer support. Refer to the official Memphis Audio website or your authorized dealer for contact information.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question