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› Memphis Audio MJP1522 Subwoofer and Amplifier Bundle User Manual

Memphis MJP1522+RXD-M2+RWK41

Memphis Audio MJP1522 Subwoofer and Amplifier Bundle User Manual

Model: MJP1522+RXD-M2+RWK41

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Memphis Audio MJP1522 15" MOJO Pro Car Subwoofer, Rockville KRYPTON-M2 Mono Amplifier, and Rockville RWK41 4 Gauge Complete Car Amp Wiring Installation Wire Kit. Please read this manual thoroughly before attempting installation or operation to ensure proper function and safety.



Image: The complete bundle including the Memphis Audio 15-inch subwoofer, the Rockville KRYPTON-M2 amplifier, and the Rockville RWK41 wiring kit, laid out together.

Safety Information

Always observe the following safety precautions to prevent injury or damage to equipment:

- Disconnect the vehicle's battery before beginning any installation.
- Ensure all wiring is properly insulated and secured to prevent short circuits.
- Use appropriate gauge wiring as specified in this manual.
- Avoid installing components in locations exposed to excessive heat, moisture, or vibration.
- Consult a professional car audio installer if you are unsure about any part of the installation process.
- Do not operate the system at excessively high volumes for prolonged periods, as this can cause hearing damage.

Package Contents

Verify that all items are present in your package:

- (1) Memphis Audio MJP1522 15" 1500 Watt MOJO Pro Car Audio Subwoofer DVC 2 ohm Sub
- (1) Rockville KRYPTON-M2 3000w Peak/750w RMS Mono 1 Ohm Car Amplifier Amp+Remote
- (1) Rockville RWK41 4 Gauge Complete Car Amp Wiring Installation Wire Kit with RCA's



Image: The retail packaging box for the Memphis Audio MJP1522 subwoofer, indicating the model and power ratings.

PRODUCT OVERVIEW

Memphis Audio MJP1522 15" MOJO Pro Subwoofer

The MJP1522 subwoofer is engineered for high Sound Pressure Level (SPL) performance, featuring robust construction and advanced cooling.

- DVVC Direct Vent Voice Coil Cooling
- Cross drilled front plate venting
- Aluminum shorting ring for reduced inductance
- Foam surround and rigid paper cone
- Progressive spider and diecast basket
- Single Sided compression terminals



Image: Top view of the Memphis Audio MJP1522 subwoofer, showing the cone and surround.



Image: Bottom view of the Memphis Audio MJP1522 subwoofer, highlighting the magnet structure and voice coil assembly.



Image: Close-up view of the single-sided compression terminals on the Memphis Audio MJP1522 subwoofer.

Rockville KRYPTON-M2 Mono Amplifier

The KRYPTON-M2 is a powerful mono amplifier designed to drive subwoofers with high efficiency.

- Dyno-Certified RMS Power Ratings
- Digital Voltage Display on Amp
- Stable at 1 Ohm

Rockville RWK41 4 Gauge Wiring Kit

This complete wiring kit provides all necessary cables and accessories for a professional amplifier installation.

- 17' High Grade Twisted Pair of 100% Copper RCA Cable
- 17' – 4 Gauge Translucent Blue SuperFlex Power Cables
- 17' – 18 Gauge Blue Remote Cable
- 17' – 16 Gauge Clear Speaker Wire
- 3' – 4 Gauge Clear SuperFlex Ground Wire

- Gold Plated AGU Heat Resistant Fuse Holder with 60 Amp AGU Gold Plated Fuse
- Accessories: Wire Ties, Ring Terminals, Butt Connectors, Spades, and Grommets

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended to have this system installed by a qualified professional.

General Wiring Guidelines

- **Power Wire:** Run the 4-gauge power wire from the vehicle's battery to the amplifier. Use the included fuse holder within 18 inches of the battery.
- **Ground Wire:** Connect the 4-gauge ground wire from the amplifier to a clean, unpainted metal surface on the vehicle's chassis. The ground point should be as short as possible.
- **Remote Turn-On Wire:** Connect the 18-gauge remote wire from your head unit's remote output to the amplifier's remote input.
- **RCA Cables:** Connect the RCA cables from your head unit's subwoofer pre-outs to the amplifier's RCA inputs. Route these away from power cables to prevent noise.
- **Speaker Wire:** Connect the 16-gauge speaker wire from the amplifier's speaker outputs to the subwoofer's terminals. Ensure correct polarity.

Subwoofer Installation

The MJP1522 subwoofer is designed for enclosure mounting. Ensure the enclosure is properly sealed and sized according to recommended specifications for optimal bass response.

- **Mounting:** Securely mount the subwoofer into a custom-built or pre-fabricated enclosure. The cut-out diameter for the MJP1522 is 13.84 inches.
- **Wiring:** The MJP1522 features a DVC (Dual Voice Coil) 2 Ohm configuration. Wire the voice coils in parallel for a 1 Ohm load to match the KRYPTON-M2 amplifier's optimal impedance.



Image: Angled view of the Memphis Audio MJP1522 subwoofer, showcasing its robust frame and surround.

Amplifier Installation

Choose a mounting location for the KRYPTON-M2 amplifier that is dry, well-ventilated, and away from direct sunlight or excessive heat. Ensure adequate airflow around the amplifier for cooling.

- **Mounting:** Secure the amplifier using screws to a solid surface in the vehicle, such as under a seat or in the trunk.
- **Connections:** Connect the power, ground, remote, RCA, and speaker wires to the appropriate terminals on the amplifier. Double-check all connections for tightness and correct polarity.

OPERATING INSTRUCTIONS

Once installed, follow these steps to configure and operate your car audio system:

1. **Initial Power-Up:** Reconnect the vehicle's battery. The amplifier should power on when the head unit is turned on.
2. **Gain Setting:** Start with the amplifier's gain control at its minimum setting. Play a familiar piece of music with strong bass. Slowly increase the gain until you hear distortion, then back off slightly. This sets the amplifier's output to match your head unit's output.
3. **Crossover Settings:** The KRYPTON-M2 amplifier includes a low-pass filter (LPF). Adjust the LPF to filter out frequencies above the desired subwoofer range, typically between 80Hz and 120Hz. This ensures the subwoofer only reproduces bass frequencies.
4. **Bass Boost:** Use the bass boost feature sparingly, if at all, as excessive bass boost can lead to distortion and potential damage to the subwoofer.
5. **Remote Level Control:** Use the included remote level control to adjust the subwoofer's output level conveniently from the driver's seat.

MAINTENANCE

Regular maintenance ensures the longevity and performance of your car audio system:

- **Cleaning:** Keep the amplifier and subwoofer free from dust and debris. Use a soft, dry cloth to wipe down surfaces. Do not use liquid cleaners directly on components.
- **Connections:** Periodically check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure the amplifier's cooling fins are not obstructed. Proper ventilation is critical to prevent overheating.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power to Amplifier	Blown fuse, loose power/ground wire, no remote signal.	Check fuse, verify power and ground connections, ensure remote wire is connected and receiving 12V.
No Sound from Subwoofer	Loose RCA cables, incorrect gain setting, speaker wire disconnected, amplifier in protect mode.	Check RCA connections, adjust gain, verify speaker wire connections, check amplifier status light.
Distorted Sound	Gain set too high, incorrect crossover setting, poor ground connection.	Reduce gain, adjust LPF, ensure solid ground connection.
Amplifier Overheating	Insufficient ventilation, impedance too low, prolonged high volume.	Ensure proper airflow, verify subwoofer wiring impedance (should be 1 Ohm), reduce listening volume.

SPECIFICATIONS

Memphis Audio MJP1522 Subwoofer

- **Size:** 15 Inch

- **Voice Coil:** DUAL 2Ω
- **RMS/PEAK Power:** 750W / 1500W
- **Sensitivity (SENS):** 87 dB
- **Mounting Depth:** 7.88 Inch
- **Cut Out Diameter:** 13.84 Inch
- **Resonant Frequency (fs):** 33.6 Hz
- **Mechanical Q (Qms):** 7.95
- **Electrical Q (Qes):** 0.823
- **Total Q (Qts):** 0.746
- **Xmax Linear:** 0.51 in
- **Displacement:** 0.29 cf
- **Air Volume of Suspension (Vas):** 2.31 cf
- **Moving Mass (Mms):** 334.4 g
- **Suspension Compliance (Cms):** 0.067 mmN
- **Effective Piston Area (Sd):** 829.58 SqCm
- **Motor Strength (Bl):** 9.3 TM
- **DC Resistance:** 1 Ohms (when wired in parallel)

Rockville KRYPTON-M2 Mono Amplifier

- **Peak Power:** 3000 Watts x 1 Channel (1 Ohm)
- **RMS Power (Dyno Certified):**
 - **1 Ohm:** 750 Watts x 1 Channel (<1% THD+N)
 - **2 Ohm:** 500 Watts x 1 Channel (<1% THD+N)
 - **4 Ohm:** 300 Watts x 1 Channel (<1% THD+N)
- **Audio Output Mode:** Mono
- **Connectivity Technology:** RCA
- **Digital Voltage Display:** Accurate within 0.15V

Rockville RWK41 Wiring Kit

- **RCA Cable:** 17' High Grade Twisted Pair of 100% Copper
- **Power Cable:** 17' – 4 Gauge Translucent Blue SuperFlex
- **Remote Cable:** 17' – 18 Gauge Blue
- **Speaker Wire:** 17' – 16 Gauge Clear
- **Ground Wire:** 3' – 4 Gauge Clear SuperFlex
- **Fuse Holder:** Gold Plated AGU Heat Resistant
- **Fuse:** 60 Amp AGU Gold Plated
- **Loom:** 7' Split Tube

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the manufacturer's official website or contact their customer service department. Keep your purchase receipt as proof of purchase.

You can find more information about Memphis Audio products by visiting their official store [Memphis Audio Store on Amazon](#).

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