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› Rockville MS10LW 10-inch Marine Subwoofer Instruction Manual

Rockville MS10LW

Rockville MS10LW 10-inch Marine Subwoofer Instruction Manual

Model: MS10LW

Brand: Rockville

INTRODUCTION

The Rockville MS10LW 10-inch Marine Subwoofer is designed to deliver high-output bass and durable performance for marine and outdoor audio systems. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your subwoofer. Please read this manual thoroughly before installation and use.

FEATURES

- **High-Power Audio Performance:** Delivers 2400W peak / 600W RMS with deep bass and 90dB sensitivity for clear, powerful sound in marine and outdoor environments.
- **Built-in White LED Lighting:** Integrated LED lighting adds visual flair to your boat's audio setup.
- **Dual Voice Coil Design:** 2.0-inch 4-layer dual voice coil enhances power handling and overall sound performance.
- **Durable Marine-Grade Build:** Fully waterproof and UV-treated materials withstand saltwater, sun exposure, and harsh weather conditions.
- **Easy Installation:** Free-air design eliminates the need for an enclosure and works with most marine amplifiers for quick, versatile setup.
- **Massive Magnet:** Features a double-stacked 80 Oz magnet for enhanced power handling.
- **Polypropylene Cone:** Equipped with a polypropylene cone and rubber surround for long-lasting performance.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your Rockville MS10LW marine subwoofer. This subwoofer features a free-air design, allowing for installation without a dedicated enclosure, simplifying the setup process.

Unboxing and Components

Upon opening the package, verify that all components are present. The package typically includes the subwoofer, an owner's manual, a mounting gasket, and wiring for the LED lights.



Figure 1: Included components for the Rockville MS10LW subwoofer, showing the owner's manual, mounting gasket, and LED wiring.

Mounting

The MS10LW is designed for boat mounting. Use the provided template (if included) to mark the cutout area. Ensure the mounting surface is sturdy and can support the subwoofer's weight. Secure the subwoofer using appropriate marine-grade fasteners.

Wiring the Subwoofer

The MS10LW features a 2.0-inch 4-layer dual voice coil, offering flexibility in wiring configurations (e.g., parallel or series) to achieve the desired impedance for your marine amplifier. Refer to your amplifier's manual for optimal impedance matching. The subwoofer terminals are clearly marked for positive and negative connections.

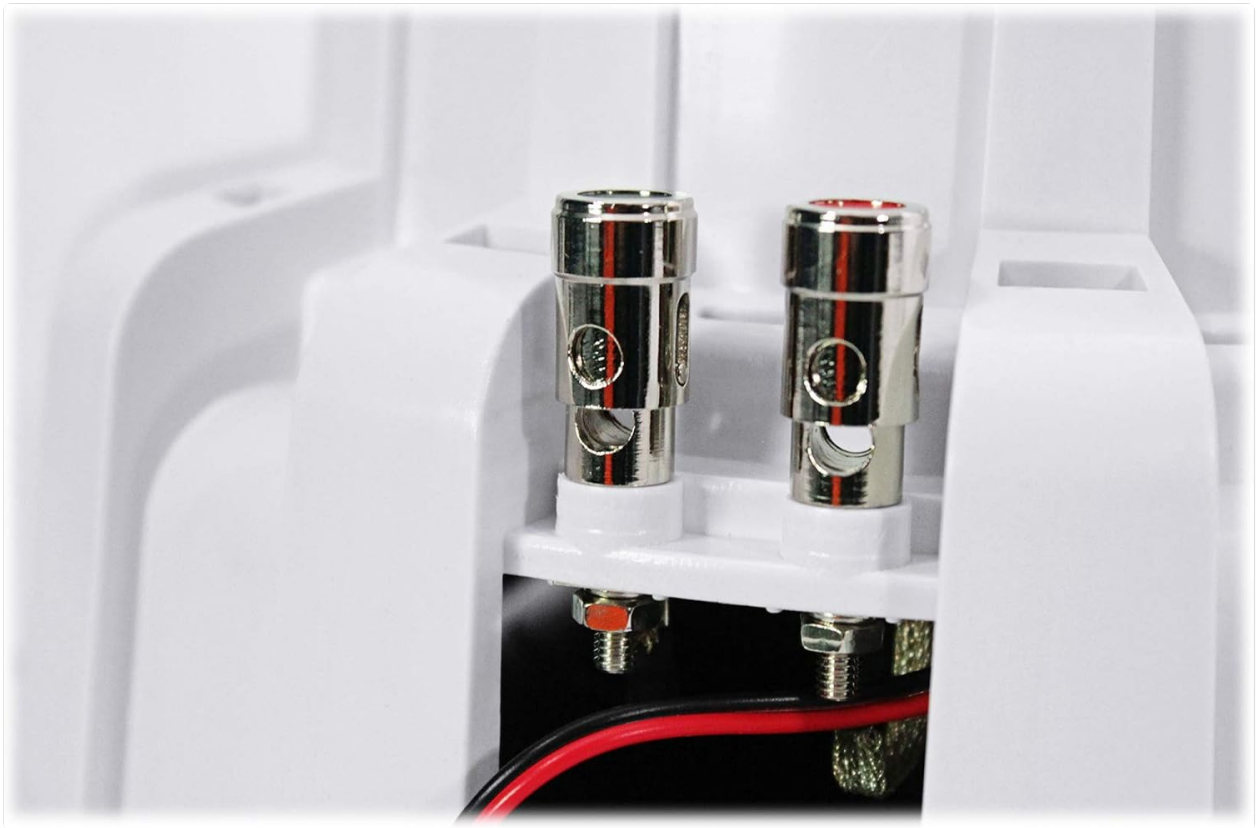


Figure 2: Close-up of the subwoofer's spring-loaded terminals for secure wiring connections.

Wiring the LED Lighting

The built-in white LED lighting requires a separate power connection. Connect the provided LED wiring to a 12V DC power source on your boat. Ensure proper polarity (red to positive, black to negative) to avoid damage. Consider wiring the LEDs to a switch for independent control.

Video Guide: Unboxing and Overview

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Video 1: An unboxing video of the Rockville MS10LW marine subwoofer, demonstrating its contents and initial appearance.

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Video 2: A detailed overview of the Rockville MS10L marine subwoofer, highlighting its features and design.

OPERATING INSTRUCTIONS

Once installed, follow these guidelines for optimal operation of your MS10LW subwoofer:

- **Power On:** Ensure your marine audio system and amplifier are powered on. The subwoofer will begin to produce bass once an audio signal is received.
- **Amplifier Settings:** Adjust your amplifier's gain, low-pass filter (LPF), and phase settings to integrate the subwoofer smoothly with your main speakers. A typical LPF setting for a subwoofer is between 80Hz and 120Hz.
- **LED Control:** If wired to a switch, activate the LED lighting as desired. The white LEDs provide ambient illumination.
- **Volume Levels:** Start with low volume and gradually increase it, listening for any distortion. The 90dB sensitivity allows for efficient sound production without excessive power.

MAINTENANCE

To ensure the longevity and performance of your Rockville MS10LW marine subwoofer, regular maintenance is recommended:

- **Cleaning:** Periodically clean the subwoofer grille and cone with a soft, damp cloth. For marine environments, use fresh water to rinse off any saltwater residue. Avoid harsh chemicals or abrasive cleaners.
- **Connection Inspection:** Regularly inspect all wiring connections for corrosion, especially in saltwater environments. Clean any corroded terminals and re-secure connections as needed.
- **UV Protection:** While the subwoofer is UV-treated, prolonged exposure to direct sunlight can still affect its appearance over time. If possible, cover the subwoofer when not in use for extended periods.
- **Water Exposure:** The subwoofer is fully waterproof. However, avoid directing high-pressure water jets directly at the cone or terminals.

TROUBLESHOOTING

If you encounter issues with your Rockville MS10LW subwoofer, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No sound from subwoofer	No power to amplifier; loose wiring connections; amplifier in protect mode; incorrect input signal.	Check amplifier power and ground connections. Verify all speaker wires are securely connected. Consult amplifier manual for protect mode indicators. Ensure audio source is active and connected correctly.
Distorted or unclear bass	Amplifier gain too high; incorrect crossover settings; impedance mismatch; damaged voice coil.	Reduce amplifier gain. Adjust low-pass filter (LPF) on amplifier (typically 80-120Hz). Verify subwoofer wiring matches amplifier's impedance requirements. If distortion persists at low volumes, the voice coil may be damaged (contact support).
LED lights not working	Loose LED wiring; incorrect polarity; no power to LED circuit.	Check LED power and ground connections. Ensure red wire is connected to +12V and black wire to ground. Verify the 12V power source is active.
Intermittent sound	Loose wiring connections; corroded terminals; faulty amplifier.	Inspect all wiring for secure connections and signs of corrosion. Clean terminals if necessary. Test with a different amplifier if possible to rule out amplifier issues.

SPECIFICATIONS

Feature	Specification
Brand	Rockville
Model Number	MS10LW
Speaker Type	Subwoofer

Feature	Specification
Subwoofer Diameter	10 Inches
Speaker Maximum Output Power	2400 Watts Peak
RMS Power (CEA Rated)	600 Watts
Impedance	4 Ohms
Sensitivity	90 dB
Frequency Response	4 KHz (Note: This value seems unusually high for a subwoofer's upper frequency limit, typically subwoofers operate much lower, e.g., 20Hz-200Hz. Please refer to product packaging for exact specifications.)
Voice Coil	2.0" 4-Layer Dual Voice Coil
Magnet Weight	80 Oz (Double-stacked)
Material	Plastic (Molded ABS Basket)
Color	White
Waterproof	Yes
UV-Treated	Yes
Mounting Type	Boat Mount
Item Dimensions (D x W x H)	11.2"D x 11.1"W x 7.4"H
Item Weight	12.1 Pounds
Connectivity Protocol	Aux, RCA
UPC	811080027708

WARRANTY AND SUPPORT

Your Rockville MS10LW Marine Subwoofer comes with a **1-year limited warranty** from the date of purchase, covering manufacturing defects. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact Rockville customer support.

In addition to the manufacturer's warranty, products purchased may be subject to a **30-day return/replacement policy** from the retailer. Please check your purchase receipt or retailer's policy for details.

For technical assistance, troubleshooting, or warranty claims, please contact Rockville customer support through their official website or the contact information provided in your product documentation.