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› Skar Audio SKM10WD4 10-inch Marine Subwoofer User Manual

Skar Audio SKM10WD4

Skar Audio SKM10WD4 10-inch Marine Subwoofer User Manual

Model: SKM10WD4

1. INTRODUCTION

Thank you for choosing the Skar Audio SKM10WD4 10-inch Marine Subwoofer. This product is engineered to deliver powerful and clear bass in marine environments. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer to ensure optimal performance and longevity. Please read this manual thoroughly before installation and use.



Image 1.1: Front view of the Skar Audio SKM10WD4 10-inch Marine Subwoofer.

2. SAFETY INFORMATION

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

- **Professional Installation Recommended:** Installation of audio equipment can be complex. If you are unsure about any part of the installation process, consult a qualified professional.
- **Power Disconnection:** Before beginning any installation or wiring, disconnect the vehicle's battery to prevent electrical shorts and damage.
- **Proper Wiring:** Ensure all wiring is correctly connected and insulated to prevent short circuits and electrical hazards. Use appropriate gauge wire for power and speaker connections.
- **Secure Mounting:** Mount the subwoofer securely to prevent it from becoming a projectile in case of sudden stops or impacts.

- **Water Resistance:** While this product is marine-grade and water-resistant, it is not designed for submersion. Ensure proper sealing during installation to maintain its water resistance.
- **Ventilation:** Ensure adequate ventilation around the subwoofer and amplifier to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Skar Audio SKM10WD4 10-inch Marine Subwoofer
- Mounting Gasket
- Stainless Steel Mounting Screws

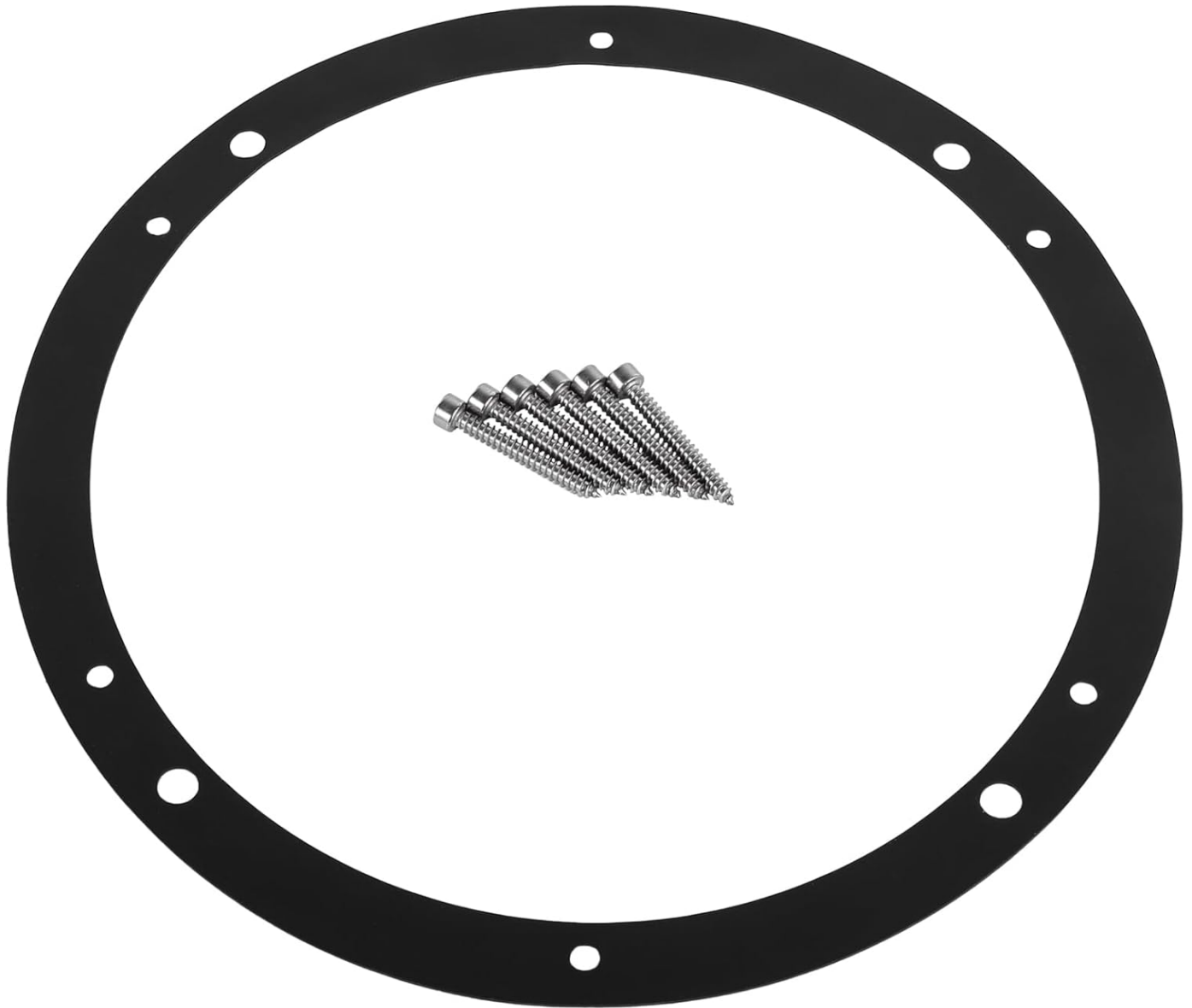


Image 3.1: Included mounting gasket and stainless steel screws.

4. FEATURES

The Skar Audio SKM10WD4 Marine Subwoofer offers the following key features:

- 10-Inch Dual 4 Ohm Marine Subwoofer - White
- Peak Power: 1,000 Watts | RMS Power: 500 Watts

- 2.4" (61.1mm) Dual 4-ohm High Temperature Copper Voice Coil
- Frequency Response Range: 35 Hz - 700 Hz | Sensitivity: 85.6 dB
- High Flux Ferrite Motor | High Roll Rubber Surround
- Water-resistant design for marine applications

5. SETUP & INSTALLATION

Proper installation is crucial for the performance and durability of your marine subwoofer. Follow these guidelines carefully.

5.1. Mounting Location

Choose a mounting location that is structurally sound and provides adequate air space for the subwoofer's enclosure type (if applicable). Ensure the location is protected from direct water exposure where possible, even with its water-resistant design. Consider the subwoofer's dimensions for proper fit.

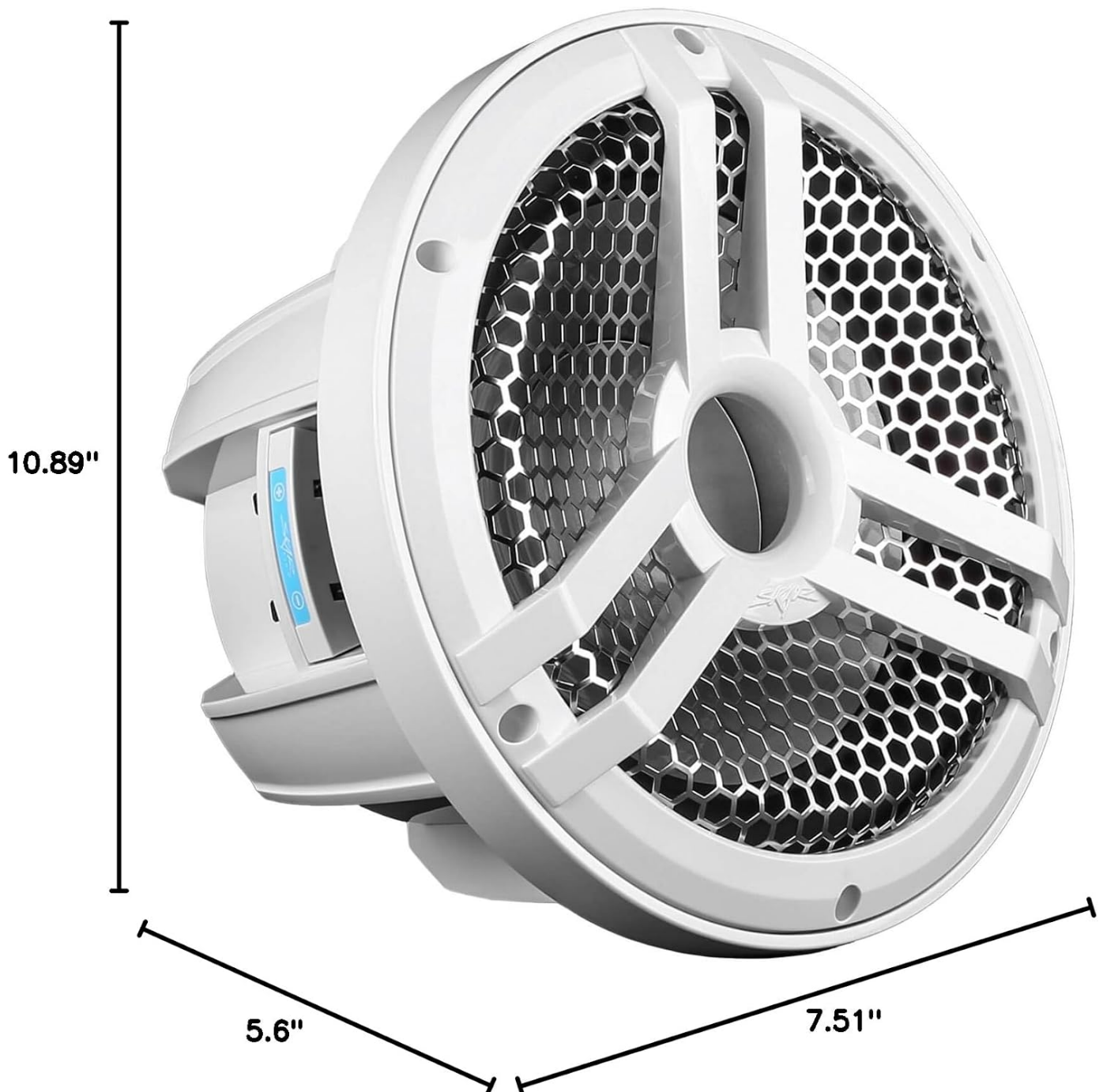


Image 5.1: Subwoofer dimensions (5.6"D x 10.89"W x 7.51"H).

5.2. Enclosure Requirements

This subwoofer is designed for marine applications and can be installed in various enclosures. Consult the subwoofer's Thiele-Small parameters (available on the Skar Audio website) for optimal sealed or ported enclosure designs. Ensure the enclosure material is suitable for marine environments.

5.3. Wiring

The SKM10WD4 features a dual 4-ohm voice coil. This allows for flexible wiring configurations to match your amplifier's impedance requirements. Always ensure the amplifier is stable at the chosen impedance.

- **Parallel Wiring (2 Ohm Load):** Connect the positive terminals of both voice coils together, and the negative terminals of both voice coils together. Then connect the combined positive to the amplifier's positive output and the combined negative to the amplifier's negative output. This results in a 2-ohm load.
- **Series Wiring (8 Ohm Load):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Then connect the remaining positive terminal to the amplifier's positive output and the remaining negative terminal to the amplifier's negative output. This results in an 8-ohm load.

Use high-quality marine-grade wiring to prevent corrosion and ensure reliable power delivery. Observe correct polarity (+ to + and - to -) for all connections.



Image 5.2: Close-up of the subwoofer's wiring terminals, showing positive and negative connections.

5.4. Mounting the Subwoofer

1. Once the mounting location is selected and the enclosure (if used) is prepared, use the provided cutting template to mark the cutout diameter.
2. Carefully cut the opening. Ensure the edges are smooth and free of debris.
3. Place the mounting gasket around the subwoofer's frame or the mounting surface to create a seal.
4. Position the subwoofer into the opening, aligning the mounting holes.
5. Secure the subwoofer using the provided stainless steel screws. Tighten screws evenly in a star pattern to ensure a uniform seal and prevent warping. Do not overtighten.

6. OPERATING INSTRUCTIONS

After installation, follow these steps for initial operation:

1. **Initial Power-Up:** Reconnect the vehicle's battery. Turn on your audio system at a low volume.
2. **Gain Adjustment:** Carefully adjust the gain setting on your amplifier. Start with the gain at its lowest setting and slowly increase it until the desired volume is achieved without distortion. Refer to your amplifier's manual for specific gain setting procedures.
3. **Crossover Settings:** Set the low-pass filter (LPF) on your amplifier or head unit to filter out high frequencies from the subwoofer. A common starting point is between 80 Hz and 120 Hz.
4. **Break-in Period:** Allow a break-in period of approximately 10-20 hours of normal listening before operating the subwoofer at maximum output. This allows the suspension components to loosen and perform optimally.
5. **Avoid Distortion:** Always listen for signs of distortion. If you hear distortion, immediately reduce the volume or gain. Prolonged operation with distortion can cause permanent damage to the subwoofer.

7. MAINTENANCE

Regular maintenance will help prolong the life and performance of your marine subwoofer:

- **Cleaning:** Periodically clean the subwoofer grille and cone with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly inspect the mounting screws for tightness and the wiring connections for corrosion. Tighten any loose screws and clean any corroded terminals.
- **Environmental Protection:** While water-resistant, protecting the subwoofer from prolonged direct exposure to harsh elements (e.g., direct sunlight, heavy rain, saltwater spray) when not in use can further extend its lifespan.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Sound from Subwoofer	- No power to amplifier - Incorrect wiring - Amplifier in protect mode - Gain too low	- Check amplifier power, ground, and remote turn-on connections. - Verify all speaker and RCA connections. - Check amplifier's indicator lights and consult its manual. - Increase amplifier gain slowly.
Distorted Sound	- Amplifier gain set too high - Incorrect crossover settings - Damaged subwoofer	- Reduce amplifier gain. - Adjust LPF settings on amplifier or head unit. - Inspect subwoofer cone and surround for physical damage.
Weak Bass Output	- Incorrect wiring (e.g., out of phase) - Insufficient amplifier power - Improper enclosure	- Verify correct polarity of speaker wires. - Ensure amplifier provides adequate RMS power for the subwoofer. - Check enclosure volume and design against specifications.

If these steps do not resolve the issue, contact Skar Audio customer support.

9. SPECIFICATIONS

Detailed technical specifications for the Skar Audio SKM10WD4 10-inch Marine Subwoofer:

Feature	Specification
Brand	Skar Audio
Model Number	SKM10WD4
Speaker Type	Subwoofer
Subwoofer Diameter	10 inches
Peak Power	1000 watts
RMS Power	500 watts
Impedance	Dual 4 Ohm
Frequency Response	35 Hz - 700 Hz
Sensitivity	85.6 dB
Voice Coil	2.4" (61.1mm) High Temperature Copper
Enclosure Material	Copper (Voice Coil)

Feature	Specification
Color	White
Water Resistance Level	Water Resistant
Item Dimensions (D x W x H)	5.6"D x 10.89"W x 7.51"H
Item Weight	15.8 pounds
Compatible with Vehicle Type	Boat

10. WARRANTY INFORMATION

Skar Audio provides a **2-year manufacturer's limited warranty** for the SKM10WD4 Marine Subwoofer. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, abuse, accident, neglect, or unauthorized modifications. Please retain your proof of purchase for warranty claims. For full warranty terms and conditions, please visit the official Skar Audio website or contact customer support.

11. SUPPORT & CONTACT

If you have any questions, require technical assistance, or need to make a warranty claim, please contact Skar Audio customer support:

- **Website:** www.skaraudio.com
- **Email:** Refer to the Skar Audio website for current contact information.
- **Phone:** Refer to the Skar Audio website for current contact information.

Please have your product model number (SKM10WD4) and proof of purchase ready when contacting support.

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