

Skar Audio VS-10 D2

Skar Audio VS-10 D2 Shallow Mount Car Subwoofer

Instruction Manual

1. INTRODUCTION

Thank you for choosing the Skar Audio VS-10 D2 Shallow Mount Car Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your new subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety.

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.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Use appropriate gauge wiring for power, ground, and speaker connections to handle the subwoofer's power requirements.
- Avoid installing the subwoofer in locations where it may obstruct vehicle operation or safety features.
- Wear appropriate safety gear, including eye protection, during installation.
- Do not expose the subwoofer to excessive moisture or extreme temperatures.
- Operating audio systems at high volumes for extended periods can cause permanent hearing damage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Skar Audio VS-10 D2 10-inch Shallow Mount Subwoofer

4. PRODUCT OVERVIEW

The Skar Audio VS-10 D2 is a high-performance 10-inch shallow mount subwoofer designed for applications where space is limited. It features a robust construction and is engineered to deliver powerful and accurate bass response.



Image: Skar Audio VS-10 D2 Subwoofer banner highlighting 500W RMS / 1000W Max power and shallow design.

Key Features:

- **10-Inch Dual 2 Ohm Design:** Offers flexible wiring options for various amplifier setups.
- **High Power Handling:** Rated for 1000 Watts Max Power and 500 Watts RMS Power.
- **Shallow Mount Design:** With a mounting depth of 3.89 inches, it fits into tight spaces.
- **Competition Grade Construction:** Features a pressed paper cone and high roll rubber surround for durability and performance.
- **Optimized Sensitivity:** 83.1 dB sensitivity for efficient power conversion.



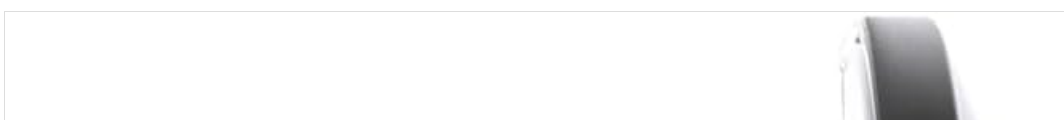
Image: Angled view of the Skar Audio VS-10 D2 subwoofer, showcasing its cone, surround, and frame.



Image: Top-down view of the Skar Audio VS-10 D2 subwoofer, highlighting the cone and Skar Audio logo.



Image: Banner emphasizing the very shallow design of the VS-10 D2 subwoofer.





5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. It is recommended that installation be performed by a qualified professional.

Enclosure Requirements:

The VS-10 D2 is designed for use in a sealed or ported enclosure. Due to its shallow mount design, it is ideal for custom enclosures in vehicles with limited space. Consult a car audio specialist or Skar Audio's recommended enclosure specifications for optimal performance.

- Ensure the enclosure is robust and sealed properly to prevent air leaks.
- Verify that the mounting depth (3.89 inches) and cutout diameter are compatible with your chosen enclosure.

Mounting the Subwoofer:

1. Carefully place the subwoofer into the enclosure cutout.
2. Align the mounting holes on the subwoofer frame with the pre-drilled holes in the enclosure.
3. Secure the subwoofer using appropriate screws, tightening them evenly to create a snug fit without overtightening.

6. WIRING CONFIGURATIONS

The Skar Audio VS-10 D2 features a dual 2 Ohm voice coil configuration, offering flexibility in wiring to achieve different impedance loads for your amplifier. Always ensure your amplifier is stable at the chosen impedance.



Image: Close-up view of the spring-loaded terminals on the Skar Audio VS-10 D2 subwoofer, showing positive and negative connections for each voice coil.

Single Subwoofer Wiring Options:

For a single VS-10 D2 subwoofer:

- **Series Wiring (4 Ohm Load):** Connect the positive terminal of Voice Coil 1 to the negative terminal of Voice Coil 2. Connect the remaining negative terminal of Voice Coil 1 to the amplifier's negative output. Connect the remaining positive terminal of Voice Coil 2 to the amplifier's positive output. This configuration results in a 4 Ohm impedance, suitable for amplifiers stable at 4 Ohms.
- **Parallel Wiring (1 Ohm Load):** Connect the positive terminal of Voice Coil 1 to the positive terminal of Voice Coil 2. Connect the negative terminal of Voice Coil 1 to the negative terminal of Voice Coil 2. Connect the combined positive terminals to the amplifier's positive output. Connect the combined negative terminals to the amplifier's negative output. This configuration results in a 1 Ohm impedance, suitable for amplifiers stable at 1 Ohm.

Note: Always verify your amplifier's minimum stable impedance before wiring. Incorrect impedance can lead to amplifier damage.

7. OPERATING INSTRUCTIONS

After successful installation and wiring, follow these steps for initial operation:

- 1. Initial Power-Up:** Turn on your vehicle's audio system with the amplifier gain set to its lowest level.
- 2. Gain Adjustment:** Gradually increase the amplifier gain until the desired volume is achieved without distortion. Avoid setting the gain too high, as this can lead to clipping and damage to the subwoofer.
- 3. Crossover Settings:** Set your amplifier's low-pass filter (LPF) to an appropriate frequency, typically between 60Hz and 100Hz, to ensure the subwoofer only reproduces low frequencies.
- 4. Subwoofer Break-In:** Allow a break-in period of approximately 20-30 hours of moderate listening before operating the subwoofer at its maximum potential. This allows the suspension components to loosen and perform optimally.

8. MAINTENANCE

The Skar Audio VS-10 D2 subwoofer requires minimal maintenance to ensure long-term performance:

- Cleaning:** Periodically wipe the cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- Inspection:** Regularly inspect the speaker terminals and wiring for secure connections and any signs of corrosion or damage.
- Environmental Protection:** Ensure the subwoofer is protected from direct sunlight, extreme temperatures, and moisture, which can degrade materials over time.

9. TROUBLESHOOTING

If you encounter issues with your subwoofer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound from Subwoofer	Amplifier not powered on. Loose or incorrect wiring. Blown fuse in amplifier or power wire. Amplifier in protect mode.	Check amplifier power and remote turn-on. Verify all speaker and RCA connections. Inspect and replace fuses if necessary. Check amplifier for overheating or short circuits.
Distorted Sound	Amplifier gain set too high (clipping). Incorrect crossover settings. Damaged subwoofer or voice coil.	Reduce amplifier gain until distortion disappears. Adjust LPF to appropriate frequency (e.g., 80Hz). Inspect subwoofer for physical damage.
Subwoofer Overheating	Underpowered amplifier. Overpowered amplifier (clipping). Incorrect impedance wiring. Inadequate enclosure ventilation.	Ensure amplifier RMS output matches subwoofer RMS rating. Reduce gain to prevent clipping. Verify wiring matches amplifier's stable impedance. Ensure proper airflow around the subwoofer and amplifier.

If the problem persists after attempting these solutions, contact Skar Audio customer support.

10. SPECIFICATIONS

Detailed technical specifications for the Skar Audio VS-10 D2 10-inch Shallow Mount Subwoofer:

Feature	Specification
Model Name	VS-10 D2
Speaker Type	Subwoofer
Subwoofer Diameter	10 Inches
Style	Dual 2 Ohm
Peak Power	1000 Watts
RMS Power	500 Watts
Mounting Depth	3.89 inches
Product Dimensions (D x W x H)	3.89"D x 10.67"W x 4.74"H
Sensitivity	83.1 dB
Fs (Resonance Frequency)	38.0 Hz
Cone Material	Competition Grade Pressed Paper
Surround Material	High Roll Rubber
Voice Coil	2.4" High-Temperature Copper
Connectivity Technology	Speaker Wire (Wired)
Item Weight	15 Pounds
Manufacturer	Skar Audio
UPC	810028813434

11. WARRANTY AND SUPPORT

The Skar Audio VS-10 D2 subwoofer comes with a**Limited Warranty**. For specific details regarding warranty coverage, duration, and claims, please refer to the official Skar Audio website or contact their customer support directly. For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please visit the[Skar Audio Brand Store](#) or their official support channels.

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.

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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