

## Skar Audio SDR-2X8D4

# Skar Audio SDR-2X8D4 Dual 8-inch Loaded Vented Subwoofer Enclosure Instruction Manual

Model: SDR-2X8D4

## 1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Skar Audio SDR-2X8D4 Dual 8-inch Loaded Vented Subwoofer Enclosure. Please read this manual thoroughly before use to ensure optimal performance and longevity of your product. Retain this manual for future reference.

## 2. PRODUCT OVERVIEW

The Skar Audio SDR-2X8D4 is a high-performance dual 8-inch loaded vented subwoofer enclosure designed to deliver powerful and accurate bass. It features two SDR-8 D4 subwoofers pre-installed in a custom-engineered enclosure.

### Key Features:

- SDR Series 8-Inch Dual 4-ohm Loaded Vented Subwoofer Enclosure
- Peak Power: 1,400 Watts | RMS Power: 700 Watts
- Pre-wired Internally for a 1 Ohm Final Impedance Load at the Terminals for an Easy Installation
- Premium Vented Enclosure Made of 5/8" MDF and Finished in Black Carpeting
- Double Front Baffle (1.25") with Countersunk Subwoofer Design for Flush and Attractive Appearance
- Compact in Size with Superior Bass Output | Frequency Response: 30 Hz - 350 Hz

### Product Images:



Figure 1: Front and side view of the Skar Audio SDR-2X8D4 subwoofer enclosure.



Figure 2: Direct front view showcasing the dual 8-inch subwoofers.



Figure 3: Angled view highlighting the enclosure's design and Skar Audio branding.



Figure 4: Rear view showing the terminal cup for amplifier connection.



Figure 5: Close-up of an individual SDR-8 D4 subwoofer driver.

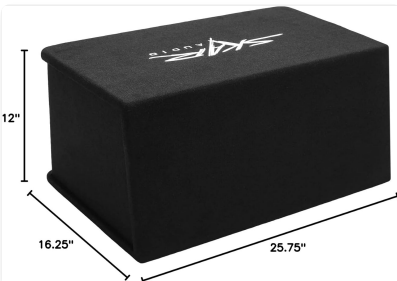


Figure 6: Diagram illustrating the enclosure's dimensions (Width: 25.75", Depth: 16.25", Height: 12.00").

## Product Video:

Video 1: Official product overview of the Skar Audio Dual 8" 1400W Loaded SDR Series Vented Subwoofer Enclosure (SDR-2X8D4).

## 3. SETUP

The Skar Audio SDR-2X8D4 is a loaded enclosure, meaning the subwoofers are pre-installed and pre-wired. This simplifies the setup process significantly.

### Placement:

- Choose a secure location in your vehicle, typically the trunk or cargo area, where the enclosure will not shift during driving.
- Ensure adequate clearance around the enclosure for proper air circulation and to prevent damage to the subwoofers or port.
- Consider the enclosure dimensions (Width: 25.75", Depth: 16.25", Height: 12.00") to confirm fitment in your desired location.

### Wiring and Connection:

1. The enclosure is internally pre-wired to present a final impedance load of 1 Ohm at the external terminals. Ensure your amplifier is stable and capable of operating safely at a 1 Ohm load.
2. Connect appropriate gauge speaker wire from your amplifier's subwoofer output to the terminals on the rear of the enclosure. Refer to your amplifier's manual for recommended wire gauge based on power output and cable length.
3. Ensure correct polarity (+ to + and - to -) to avoid phase issues that can negatively impact bass performance.
4. Secure all connections tightly to prevent loose wires and potential short circuits.

## 4. OPERATING INSTRUCTIONS

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Proper operation is crucial for achieving the best sound quality and extending the life of your subwoofer enclosure.

### Initial Break-in Period:

- Allow a break-in period of approximately 20-30 hours of normal listening before operating the subwoofers at high volumes. This allows the suspension components to loosen up and perform optimally.
- During break-in, avoid prolonged periods of high volume or excessive bass.

### Amplifier Settings:

- **Gain Setting:** Set the amplifier gain correctly to match the output voltage of your head unit. Incorrect gain settings can lead to distortion and damage. It is recommended to use a digital multimeter or an oscilloscope for accurate gain setting.
- **Low-Pass Filter (LPF):** Set the LPF on your amplifier to filter out high frequencies, typically between 60Hz and 100Hz, depending on your system and preference.
- **Subsonic Filter (HPF):** If your amplifier has a subsonic filter, set it slightly below the tuning frequency of the enclosure (typically around 30-35Hz for vented enclosures) to protect the subwoofers from over-excursion at very low frequencies.
- **Bass Boost:** Use bass boost sparingly, if at all. Excessive bass boost can easily lead to distortion and damage.

### Volume Control:

- Listen for signs of distortion (e.g., muddy bass, rattling sounds). If distortion is heard, reduce the volume immediately.
- Operating the subwoofers beyond their power handling capabilities or with excessive distortion can cause permanent damage.

## 5. MAINTENANCE

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Regular maintenance helps preserve the appearance and performance of your subwoofer enclosure.

- **Cleaning:** Use a soft, dry cloth to wipe down the enclosure's carpeted exterior. For stubborn dirt, a slightly damp cloth

can be used, but ensure the enclosure is completely dry afterward. Avoid using harsh chemicals or abrasive cleaners.

- **Subwoofer Cones:** Periodically inspect the subwoofer cones for any signs of damage, tears, or debris. Gently remove any dust or particles with a soft brush or compressed air.
- **Connections:** Regularly check all wiring connections at the amplifier and the enclosure terminals to ensure they remain tight and free from corrosion. Loose connections can lead to poor performance or damage.
- **Environment:** Avoid exposing the enclosure to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

## 6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none"><li>• No power to amplifier</li><li>• Loose or incorrect wiring</li><li>• Amplifier in protect mode</li><li>• Head unit settings</li></ul>	<ul style="list-style-type: none"><li>• Check amplifier power, ground, and remote turn-on connections.</li><li>• Verify all speaker wire connections at amplifier and enclosure.</li><li>• Check amplifier's fuse and internal protection status.</li><li>• Ensure subwoofer output is enabled and volume is up on head unit.</li></ul>
Distorted Sound	<ul style="list-style-type: none"><li>• Amplifier gain set too high</li><li>• Clipping from head unit</li><li>• Damaged subwoofer</li></ul>	<ul style="list-style-type: none"><li>• Reduce amplifier gain.</li><li>• Lower head unit volume or adjust equalizer settings.</li><li>• Inspect subwoofer cones for physical damage.</li></ul>
Weak Bass Output	<ul style="list-style-type: none"><li>• Incorrect amplifier settings</li><li>• Phase issues</li><li>• Insufficient power</li></ul>	<ul style="list-style-type: none"><li>• Adjust LPF, subsonic filter, and gain settings.</li><li>• Check speaker wire polarity.</li><li>• Ensure amplifier is providing adequate power for the subwoofers.</li></ul>
Overheating Amplifier	<ul style="list-style-type: none"><li>• Improper impedance load</li><li>• Insufficient ventilation</li><li>• Gain set too high</li></ul>	<ul style="list-style-type: none"><li>• Verify the 1 Ohm impedance load is compatible with your amplifier.</li><li>• Ensure amplifier has proper airflow.</li><li>• Reduce amplifier gain.</li></ul>

## 7. SPECIFICATIONS

Detailed technical specifications for the Skar Audio SDR-2X8D4 Dual 8-inch Loaded Vented Subwoofer Enclosure:

Specification	Value
Model Name	SDR-2X8D4

Specification	Value
Speaker Type	Subwoofer
Subwoofer Diameter	8 Inches
Speaker Maximum Output Power	1400 Watts
RMS Power	700 Watts
Impedance	1 Ohms
Frequency Response	30 Hz - 350 Hz
Enclosure Type	Vented
Material	Wood (5/8" MDF)
Product Dimensions (D x W x H)	16.25" x 25.75" x 12"
Item Weight	53.2 Pounds
Included Components	Skar Audio SDR-2X8D4 Dual 8" Vented Loaded Subwoofer Enclosure
UPC	810028810402

## 8. WARRANTY AND SUPPORT

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Skar Audio products are designed for durability and performance. This product comes with a Limited Warranty.


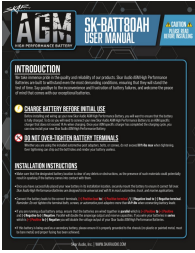
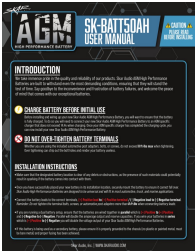

### Warranty Information:



Please refer to the official Skar Audio website or your purchase documentation for detailed information regarding the terms and conditions of the limited warranty. This typically covers manufacturing defects for a specified period from the date of purchase.

### Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Skar Audio customer support. Contact information can typically be found on the official Skar Audio website or through your retailer.

### Related Documents - SDR-2X8D4

	<p><a href="#">Skar Audio SA-1500.1D Monoblock Amplifier Owner's Manual and Installation Guide</a></p> <p>Comprehensive owner's manual and installation guide for the Skar Audio SA-1500.1D Monoblock Amplifier, covering specifications, connections, controls, installation tips, advanced features, and warranty information.</p>
	<p><a href="#">Skar Audio SK-BATT80AH 12V AGM High Performance Battery User Manual &amp; Specifications</a></p> <p>Comprehensive user manual for the Skar Audio SK-BATT80AH 12V AGM High Performance Battery. Includes installation, charging, storage instructions, safety precautions, and detailed specifications.</p>
	<p><a href="#">Skar Audio SK-BATT50AH 12V 50Ah AGM High Performance Battery User Manual</a></p> <p>Comprehensive user manual for the Skar Audio SK-BATT50AH 12V 50Ah AGM High Performance Battery, covering installation, charging, storage, safety precautions, and technical specifications.</p>
	<p><a href="#">Skar Audio SK-M Series Mini Amplifiers Owner's Manual</a></p> <p>Owner's manual for Skar Audio SK-M5001D, SK-M4004D, and SK-M9005D Sound Quality Mini Amplifiers. Includes specifications, connection diagrams, and troubleshooting.</p>

<p>Owner's Manual</p>  <p>RP-2000.1D RP-800.1D RP-1500.1D RP-1500.1DM RP-1500.1D RP-1500.1D RP-1500.1D RP-1500.1D RP-1500.1D RP-1500.1D RP-1500.1D</p> <p>High Performance Amplifiers</p>	<p><a href="#">Skar Audio RP Series Amplifiers Owner's Manual</a></p> <p>Comprehensive owner's manual for Skar Audio RP series amplifiers, covering installation, specifications, features, and troubleshooting for monoblock and multi-channel models.</p>
<p>OWNER'S MANUAL</p>  <p>RP-800.1DM RP-1500.1DM RP-75.4ABM RP-150.4ABM</p> <p>HIGH PERFORMANCE MARINE AMPLIFIERS</p>	<p><a href="#">Skar Audio RP Series Marine Amplifiers Owner's Manual - Installation &amp; Specifications</a></p> <p>Comprehensive owner's manual for Skar Audio RP Series Marine Amplifiers, covering installation, features, specifications, and troubleshooting for models RP-800.1DM, RP-1500.1DM, RP-75.4ABM, and RP-150.4ABM.</p>