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Skar Audio SDR-2X12D4

Skar Audio SDR-2X12D4 Dual 12" Loaded Subwoofer Enclosure Instruction Manual

Model: SDR-2X12D4 | Brand: Skar Audio

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Skar Audio SDR-2X12D4 Dual 12-inch Loaded Vented Subwoofer Enclosure. This system is designed to deliver high-performance bass in vehicle audio applications. It features two SDR-12 D4 subwoofers pre-installed and wired within a custom-engineered, ported enclosure. Proper installation and care are crucial for optimal performance and longevity of the product.



Image: Skar Audio SDR-2X12D4 Dual 12-inch Loaded Subwoofer Enclosure, showcasing the two subwoofers mounted in the black carpeted enclosure with the Skar Audio logo.

Safety Information

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Avoid installing the enclosure in locations where it may obstruct driver visibility or interfere with vehicle safety systems.
- High sound pressure levels can cause permanent hearing damage. Operate the system responsibly.
- This product is heavy (approximately 92 lbs). Use proper lifting techniques or seek assistance during installation to prevent injury.
- Refer to your vehicle's owner's manual for specific electrical system information and safety guidelines.

Setup and Installation

1. Unpacking

Carefully remove the subwoofer enclosure from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain the original packaging for future transport or if servicing is required.



Image: The Skar Audio SDR-2X12D4 subwoofer enclosure in its original cardboard packaging, indicating safe transport.

2. Placement

The SDR-2X12D4 is designed for vehicle applications. Choose a secure location in your vehicle, typically the trunk or cargo area, where the enclosure can be firmly mounted to prevent movement during driving. Ensure adequate ventilation around the enclosure and amplifier (if separate) to prevent overheating.



Image: Side view of the Skar Audio SDR-2X12D4 enclosure, showing its depth and carpeted finish, important for considering placement.

Consider the dimensions of the enclosure (18.75"D x 37.88"W x 14.25"H) to ensure it fits properly in your intended location.

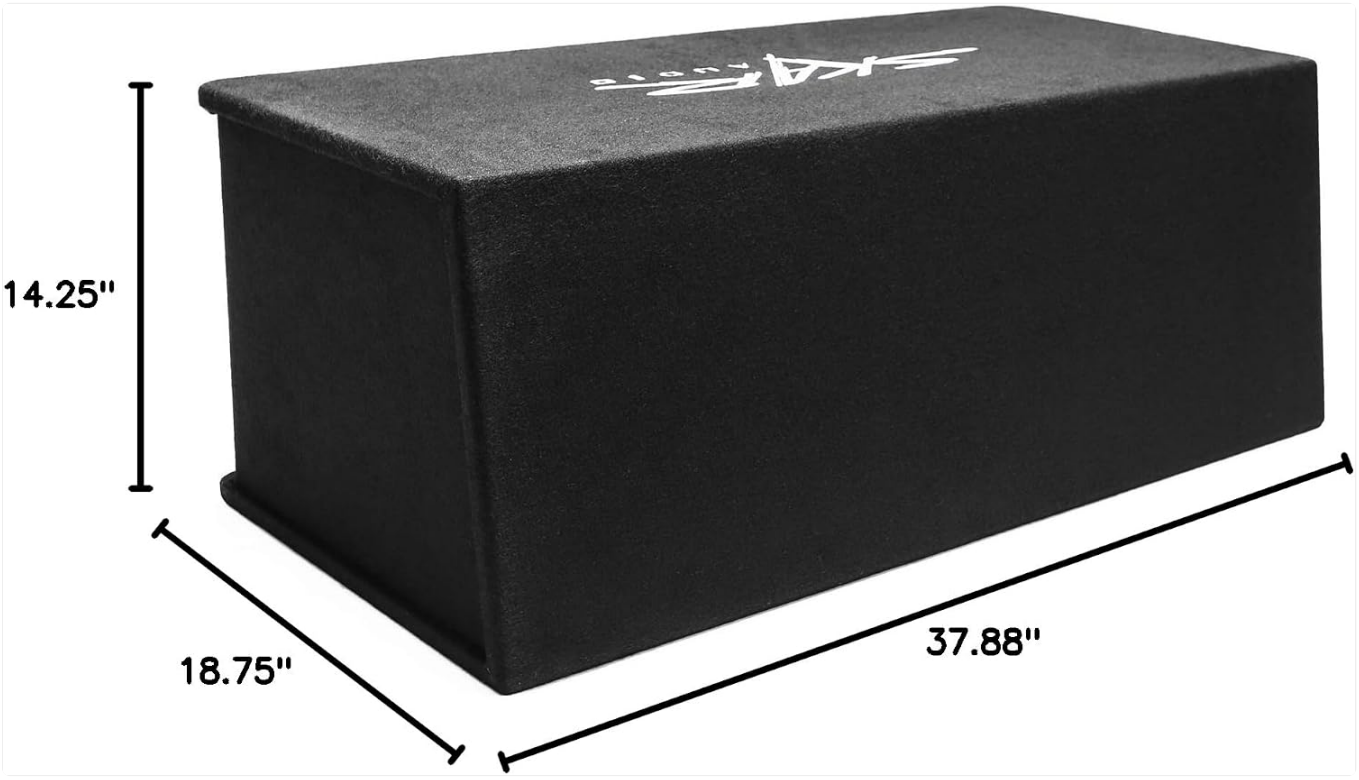


Image: Diagram illustrating the dimensions (width, depth, height) of the Skar Audio SDR-2X12D4 subwoofer enclosure.

3. Wiring

The two 12-inch subwoofers inside the SDR-2X12D4 enclosure are pre-wired internally. The final impedance load presented at the single terminal cup is **1-ohm**. It is critical to connect this enclosure to an amplifier that is stable and capable of delivering power into a 1-ohm load. Refer to your amplifier's specifications to ensure compatibility.

- Connect the positive (+) terminal of the enclosure to the positive (+) output of your amplifier.
- Connect the negative (-) terminal of the enclosure to the negative (-) output of your amplifier.
- Use appropriate gauge speaker wire for the power levels involved to minimize power loss and ensure safety.



Image: Close-up view of the terminal cup on the Skar Audio SDR-2X12D4 enclosure, showing the positive and negative connections and model information.

Warning: Incorrect wiring or connecting to an unstable amplifier can result in damage to the subwoofer, amplifier, or both, and may void your warranty. If you are unsure about wiring, consult a professional car audio installer.

Operating Instructions

1. Initial Power-On and Break-in

After installation, gradually power on your audio system. It is recommended to allow a "break-in" period for new subwoofers. During the first 20-30 hours of use, operate the system at moderate volume levels. This allows the subwoofer's suspension components to loosen and settle, leading to optimal long-term performance.

2. Amplifier Adjustments

Adjust your amplifier's settings for optimal sound quality and to prevent damage.

- **Gain Setting:** Set the amplifier gain to match the output voltage of your head unit. Do not use the gain control as a volume knob; setting it too high can cause clipping and damage the subwoofers.
- **Low-Pass Filter (LPF):** Engage the LPF on your amplifier and set it to a frequency typically between 60Hz and

100Hz. This ensures that only low-frequency signals are sent to the subwoofers.

- **Subsonic Filter:** If your amplifier has a subsonic filter, set it slightly below the enclosure's tuning frequency (32 Hz). A setting around 25-30 Hz is often appropriate to protect the subwoofers from playing frequencies too low for the ported design.
- **Bass Boost:** Use bass boost sparingly, if at all. Excessive bass boost can lead to clipping and damage.

Maintenance

- **Cleaning:** The enclosure is finished with black carpeting. Use a soft brush or vacuum cleaner to remove dust and debris. For stubborn stains, a mild carpet cleaner can be used, applied sparingly to a cloth, not directly to the enclosure.
- **Inspection:** Periodically check all wiring connections to ensure they are secure. Inspect the subwoofer cones and surrounds for any signs of damage or wear.
- **Environmental Factors:** Avoid exposing the enclosure to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture, as these can degrade the materials over time.

Troubleshooting

No Sound from Subwoofer

- Check all power and ground connections to the amplifier.
- Verify the remote turn-on wire is connected and receiving voltage.
- Ensure RCA cables are securely connected between the head unit and amplifier.
- Check the amplifier's protection light. If illuminated, refer to your amplifier's manual.
- Confirm speaker wires are correctly connected to the enclosure's terminal cup and amplifier.

Distorted or Unclear Bass

- Reduce the amplifier's gain setting. Over-driving the amplifier causes clipping.
- Check the LPF setting on your amplifier. Ensure it is not set too high, allowing mid-range frequencies to reach the subwoofer.
- Inspect the subwoofer cones for any physical damage.
- Ensure the enclosure is securely mounted and not vibrating against other vehicle components.

Amplifier Overheating

- Verify the amplifier is stable at a 1-ohm load.
- Ensure adequate ventilation around the amplifier.
- Check the gain setting; an excessively high gain can cause the amplifier to work harder and overheat.
- Confirm proper power and ground wire gauge for the amplifier's power output.

Specifications

Feature	Detail
Model Name	SDR-2X12D4

Feature	Detail
Speaker Type	Subwoofer
Subwoofer Diameter	Dual 12 Inches
Peak Power	2400 Watts
RMS Power	1200 Watts
Impedance	1 Ohm (Final Load)
Enclosure Type	Vented / Ported
Tuning Frequency	32 Hz
Product Dimensions (D x W x H)	18.75" x 37.88" x 14.25"
Item Weight	92 Pounds
Included Components	Skar Audio SDR-2X12D4 Dual 12-inch Loaded Subwoofer Enclosure
UPC	655036034231

Warranty Information

The Skar Audio SDR-2X12D4 Dual 12" Loaded Subwoofer Enclosure comes with a**Limited Warranty**. For specific details regarding warranty coverage, duration, and claims procedures, please refer to the official Skar Audio website or contact their customer support directly. Keep your proof of purchase for warranty validation.

Customer Support

Should you encounter any issues, have questions about installation, or require technical assistance, please contact Skar Audio customer support.
You can find more information and contact details by visiting the official Skar Audio Store:Skar Audio Store on Amazon.

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