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Skar Audio EVL-65 D2

Skar Audio EVL-65 D2 6.5" Dual 2 Ohm Car Subwoofer

Instruction Manual

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Skar Audio EVL-65 D2 6.5-inch Dual 2 Ohm Car Subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and longevity of your product. The EVL-65 D2 is engineered to deliver powerful and accurate bass reproduction in a compact form factor, featuring a robust design suitable for various car audio applications.



Image: Skar Audio EVL-65 D2 6.5-inch subwoofer, angled view. This image displays the front cone and surround, with a portion of the robust magnet and terminal assembly visible from the side, highlighting its compact yet powerful design.

Setup and Installation

Proper installation is crucial for the performance and safety of your subwoofer. If you are unsure about any part of the installation process, it is recommended to seek assistance from a professional car audio installer.

Safety Precautions

- Disconnect the vehicle's battery before starting any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage and electrical hazards.

- Wear appropriate safety gear, including eye protection, during installation.
- Avoid installing the subwoofer in locations where it may interfere with vehicle operation or safety features.

Enclosure Requirements

The EVL-65 D2 subwoofer requires a suitable enclosure for optimal performance. Consult the subwoofer's specifications for recommended sealed or ported enclosure volumes. The enclosure should be constructed from sturdy material, such as MDF, and properly sealed to prevent air leaks.

Wiring Configurations (Dual 2 Ohm Voice Coils)

The EVL-65 D2 features dual 2 Ohm voice coils, offering flexibility in wiring to achieve different impedance loads for your amplifier. Always ensure your amplifier is stable at the chosen impedance.

Series Wiring (4 Ohm Load)

To achieve a 4 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.

Parallel Wiring (1 Ohm Load)

To achieve a 1 Ohm load, connect both positive terminals of the voice coils together, and connect both negative terminals of the voice coils together. Then, connect the combined positive terminals to the amplifier's positive output and the combined negative terminals to the amplifier's negative output.



Image: Close-up of the subwoofer's terminals. This image clearly shows the dual positive and negative terminals for the voice coils, essential for understanding wiring configurations.

Operating Instructions

First Use and Break-in Period

Like all high-performance speakers, your Skar Audio EVL-65 D2 subwoofer requires a break-in period to achieve its full acoustic potential and ensure long-term reliability. During this period, the suspension components (surround and spider) will loosen up, allowing for greater excursion and improved bass response.

- Operate the subwoofer at moderate volume levels for the first 20-30 hours of use.
- Avoid playing music with extreme bass or at maximum volume during this initial period.
- Gradually increase the volume and bass levels after the break-in period.

Power Handling

The EVL-65 D2 is rated for 200 Watts RMS (Root Mean Square) and 400 Watts Max Power. It is crucial to match your amplifier's output to these ratings to prevent damage to the subwoofer. Underpowering can be as damaging as overpowering, as it can lead to amplifier clipping and distorted signals.

- Ensure your amplifier's RMS output is within the recommended range for the subwoofer.
- Avoid prolonged operation at distorted volume levels.
- Properly set your amplifier's gain and crossover frequencies to protect the subwoofer and optimize sound quality.

Maintenance

Regular maintenance will help preserve the appearance and performance of your Skar Audio EVL-65 D2 subwoofer.

- **Cleaning:** Use a soft, dry cloth to wipe down the subwoofer cone and surround. Avoid using harsh chemicals or abrasive cleaners, as these can damage the materials.
- **Inspection:** Periodically inspect the subwoofer for any signs of damage, such as tears in the surround or cone, or loose connections at the terminals.
- **Environment:** Ensure the subwoofer is installed in a dry environment, protected from direct sunlight and extreme temperatures. While robust, it is not waterproof.

Troubleshooting

If you experience issues with your Skar Audio EVL-65 D2 subwoofer, refer to the following common problems and solutions before contacting customer support.

Problem	Possible Cause	Solution
No Sound from Subwoofer	• No power to amplifier • Loose or incorrect wiring • Amplifier in protect mode • Damaged subwoofer voice coil	• Check amplifier power connections and fuses. • Verify all wiring connections (power, ground, remote, signal, speaker). • Check amplifier for fault codes or overheating. • Test subwoofer with a multimeter for continuity across voice coils.
Distorted Sound	• Amplifier gain set too high (clipping) • Incorrect crossover settings • Damaged subwoofer • Poor enclosure design	• Reduce amplifier gain until distortion is eliminated. • Adjust low-pass filter (LPF) on amplifier or head unit. • Inspect subwoofer for physical damage. • Ensure enclosure meets recommended specifications.
Weak or Lack of Bass	• Incorrect wiring impedance • Amplifier underpowering subwoofer • Phase issue • Incorrect enclosure volume	• Verify wiring matches amplifier's stable impedance. • Ensure amplifier RMS output is sufficient. • Check phase setting on amplifier or head unit. • Confirm enclosure volume is within recommended range.

Problem	Possible Cause	Solution
Subwoofer Overheating	• Prolonged high volume operation • Amplifier clipping • Insufficient ventilation	• Reduce volume and allow to cool. • Check amplifier gain settings for clipping. • Ensure adequate airflow around the subwoofer and amplifier.

Specifications

Below are the detailed technical specifications for the Skar Audio EVL-65 D2 6.5" Dual 2 Ohm Car Subwoofer.

Feature	Specification
Model Name	EVL-65 D2
Speaker Type	Subwoofer
Recommended Uses	Car Audio
Subwoofer Diameter	6.5 Inches
Impedance	Dual 2 Ohm
Peak Power	400 Watts
RMS Power	200 Watts
Voice Coil	2" Copper
Sensitivity (SPL)	83.1 dB
Fs (Resonance Frequency)	61 Hz
Product Dimensions (D x W x H)	7.5"D x 7.5"W x 5"H
Item Weight	7.8 Pounds
Color	Black
Connectivity Technology	Wired
Is Waterproof	FALSE
Included Components	Skar Audio EVL-65 D2 6.5" Dual 2 Ohm Subwoofer

Warranty Information

Skar Audio products are covered by a limited warranty. The specific terms and duration of the warranty may vary. Please retain your proof of purchase for any warranty claims. For detailed warranty information, including coverage and how to make a claim, please refer to the official Skar Audio website or contact their customer support directly.

Customer Support

For further assistance, technical support, or inquiries regarding your Skar Audio EVL-65 D2 subwoofer, please visit the official Skar Audio website or contact their customer service department. You can often find FAQs, additional resources, and contact information on their support pages.

Skar Audio Official Website: Visit Skar Audio Store on Amazon

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