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› Skar Audio EVL-8 D2 8-inch Car Subwoofer Instruction Manual

Skar Audio EVL-8 D2

Skar Audio EVL-8 D2 8-inch Car Subwoofer Instruction Manual

Model: EVL-8 D2 | Brand: Skar Audio

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Skar Audio EVL-8 D2 8-inch Car Subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and longevity of your product. The Skar Audio EVL-8 D2 is designed to deliver powerful and dynamic low-frequency sound in automotive audio systems.



Image 1.1: Skar Audio EVL-8 D2 Subwoofer highlighting its power ratings.

2. KEY FEATURES

- **Peak Power:** 1,200 Watts
- **RMS Power:** 600 Watts
- **Voice Coil:** 2.5-inch Dual 2-ohm High Temperature 4-Layer Copper Voice Coil with Black Coating
- **Magnet Structure:** Authoritative and Powerful High Flux 122 Oz. Double Stack Ferrite Magnet
- **Cone Material:** Competition Grade Pressed Paper Cone
- **Surround:** High Roll Foam Surround

- **Impedance:** Dual 2 Ohm



Image 2.1: Illustration of the EVL-8 D2's internal construction, emphasizing its robust design.

3. INSTALLATION & WIRING

3.1. Subwoofer Placement and Enclosure

The performance of your subwoofer is highly dependent on its enclosure and placement within the vehicle. Consult with a professional installer or use specialized software to design an appropriate enclosure (sealed or ported) that matches the subwoofer's specifications and your vehicle's acoustics. Ensure the enclosure is robust and free from air leaks.

3.2. Wiring Configurations (Dual 2 Ohm Voice Coils)

The EVL-8 D2 features dual 2-ohm voice coils, offering flexibility in wiring to achieve different final impedance loads for your amplifier. Always ensure your amplifier is stable at the chosen impedance.

- **Series Wiring (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. This configuration results in a 4-ohm load.
- **Parallel Wiring (1 Ohm Load):** Connect both positive terminals of the voice coils together, and 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. This configuration results in a 1-ohm load.

Caution: Incorrect wiring can damage your subwoofer and/or amplifier. If unsure, seek professional assistance.



Image 3.1: Detailed view of the subwoofer's push-terminal connections for wiring.



Image 3.2: Rear angled view of the subwoofer, illustrating the robust magnet structure and terminal placement.

4. OPERATING INSTRUCTIONS

4.1. Break-in Period

Like all high-performance audio components, your Skar Audio EVL-8 D2 subwoofer requires a break-in period. During the first 20-30 hours of use, operate the subwoofer at moderate volume levels. This allows the suspension components (surround and spider) to loosen and reach their optimal compliance, leading to improved long-term performance and reliability.

4.2. Amplifier Gain Setting

Properly setting your amplifier's gain is crucial. The gain control is not a volume knob; it matches the output voltage of your head unit to the input sensitivity of your amplifier. Incorrect gain settings can lead to clipping, which can severely damage your subwoofer. Consult your amplifier's manual for proper gain setting procedures, or seek professional assistance.

4.3. Crossover Settings

Utilize your amplifier's or head unit's low-pass filter (LPF) to ensure the subwoofer only reproduces low frequencies. A typical LPF setting for subwoofers is between 60Hz and 100Hz, depending on your system's other speakers and personal preference. Avoid sending full-range audio signals to the subwoofer.

5. MAINTENANCE

The Skar Audio EVL-8 D2 subwoofer is designed for durability, but regular inspection and basic maintenance can extend its lifespan.

- **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 check the subwoofer's surround for any tears or cracks. Inspect the wiring connections for corrosion or loose terminals.
- **Enclosure Integrity:** Ensure the subwoofer enclosure remains sealed and free from damage that could affect its acoustic properties.



Image 5.1: Front view of the EVL-8 D2 subwoofer, showing the cone and surround for inspection.

6. TROUBLESHOOTING

If you experience issues with your Skar Audio EVL-8 D2 subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound	Loose wiring, amplifier off, incorrect gain, blown fuse, damaged voice coil.	Check all wiring connections, ensure amplifier is powered on, verify gain settings, inspect amplifier fuse, test subwoofer with a multimeter for continuity.

Problem	Possible Cause	Solution
Distorted Sound	Amplifier clipping, incorrect gain, improper crossover settings, damaged subwoofer.	Reduce amplifier gain, adjust crossover settings, check for physical damage to the subwoofer cone or surround.
Weak Bass	Incorrect wiring impedance, insufficient power, improper enclosure, phase issues.	Verify wiring matches amplifier's stable impedance, ensure amplifier provides adequate RMS power, check enclosure design, verify phase setting on amplifier/head unit.
Overheating Amplifier	Too low impedance load, insufficient ventilation, excessive gain.	Re-check subwoofer wiring for correct impedance, ensure amplifier has proper airflow, reduce gain settings.

7. SPECIFICATIONS

Specification	Value
Model Name	EVL-8 D2
Speaker Type	Subwoofer
Subwoofer Diameter	8 Inches
Peak Power	1200 Watts
RMS Power	600 Watts
Impedance	Dual 2 Ohm
Voice Coil	2.5" High Temperature 4-Layer Copper
Magnet Weight	122 Oz. Double Stack Ferrite
Sensitivity	81.8 dB
Fs (Resonance Frequency)	44.9 Hz
Bl (Motor Force Factor)	20.27 n/a
Material	Paper (Cone)
Product Dimensions (D x W x H)	10"D x 10"W x 9.5"H
Item Weight	20.5 Pounds

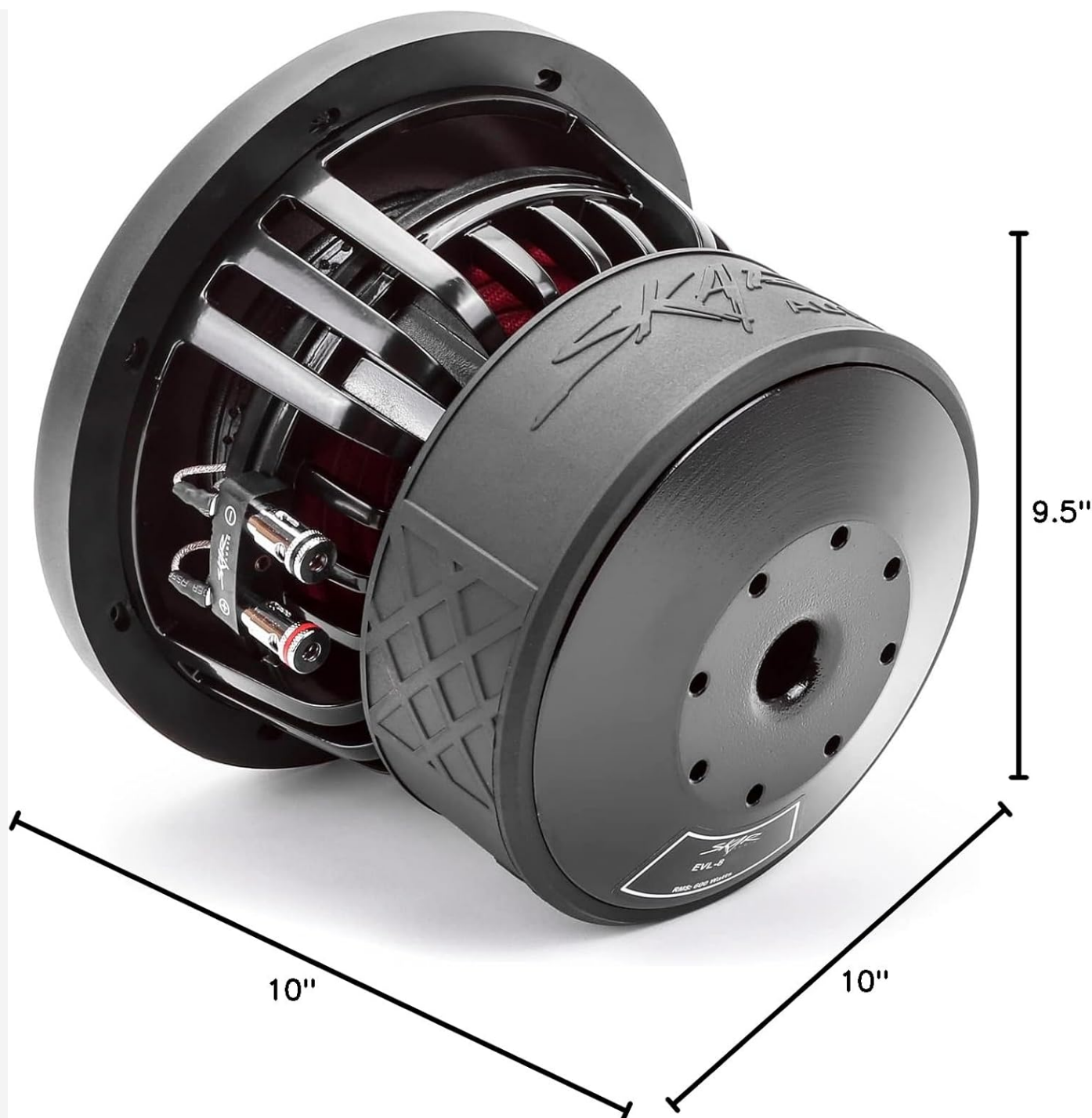


Image 7.1: Dimensional diagram of the EVL-8 D2 subwoofer.

8. WARRANTY & SUPPORT

8.1. Warranty Information

Skar Audio products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Skar Audio website. Keep your proof of purchase for warranty claims.

8.2. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Skar Audio customer support through their official website or the contact information provided with your purchase. When contacting support, please have your product model (EVL-8 D2) and purchase details readily available.

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