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› [Skar Audio](#) /

› Skar Audio EVL-15 D4 15" Dual 4 Ohm Car Subwoofer User Manual

## Skar Audio EVL-15 D4

# Skar Audio EVL-15 D4 15" Dual 4 Ohm Car Subwoofer User Manual

Model: EVL-15 D4 | Brand: Skar Audio

## 1. INTRODUCTION

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Thank you for choosing the Skar Audio EVL-15 D4 15-inch Dual 4 Ohm 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 longevity of your product.



Front view of the Skar Audio EVL-15 D4 15-inch Dual 4 Ohm Car Subwoofer.

## 2. SAFETY INFORMATION

- **Professional Installation Recommended:** Due to the complexity of car audio systems, professional installation is highly recommended.
- **Electrical Safety:** Always disconnect the vehicle's battery before performing any electrical work. Ensure all wiring is properly insulated and secured to prevent short circuits.
- **Power Handling:** Do not exceed the subwoofer's rated RMS or peak power. Overpowering can lead to permanent damage.
- **Mounting:** Securely mount the subwoofer in an appropriate enclosure to prevent movement during vehicle operation, which could cause injury or damage.

- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing loss. Use caution when adjusting volume levels.

### 3. WHAT'S IN THE BOX

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Upon opening the packaging, please verify that all components are present and in good condition:

- Skar Audio EVL-15 D4 15" Dual 4 Ohm Subwoofer
- User Manual (this document)

### 4. SPECIFICATIONS

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The Skar Audio EVL-15 D4 is engineered for high-performance car audio applications. Below are its key technical specifications:

Feature	Specification
Subwoofer Size	15 inches
Voice Coil Configuration	Dual 4 Ohm
RMS Power	1,250 Watts
Peak Power	2,500 Watts
Voice Coil Size	3-inch High Temperature with Black Coating
Cone Material	Competition Grade Paper Cone
Surround Material	High Roll Foam Surround
Suspension	Premium Red Two Layer Spider
Sensitivity	86.1 dB
Frequency Response Range	20 Hz - 250 Hz
Xmax (one-way)	23.5 mm
Fs (Resonance Frequency)	36 Hz
Item Weight	37.1 Pounds
Item Dimensions (D x W x H)	15"D x 15"W x 10"H



Side view of the Skar Audio EVL-15 D4 subwoofer, highlighting the robust basket and wiring terminals.

## 5. SETUP AND INSTALLATION

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Proper installation is crucial for the performance and longevity of your subwoofer. It is highly recommended to have this subwoofer installed by a certified professional.

### 5.1 Enclosure Requirements

The EVL-15 D4 requires a custom-built or high-quality prefabricated enclosure designed for its specific parameters. 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.

### 5.2 Wiring the Dual 4 Ohm Voice Coils

The EVL-15 D4 features dual 4-ohm voice coils, offering flexibility in wiring configurations to match your amplifier's impedance requirements. Always ensure your amplifier is stable at the final impedance load.

- **Series Wiring (8 Ohm Total):** 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 and positive terminal of Voice Coil 2 to your amplifier. This configuration results in an 8-ohm load.
- **Parallel Wiring (2 Ohm Total):** Connect the positive terminals of both voice coils together. Connect the negative terminals of both voice coils together. Connect the combined positive and negative terminals to your amplifier. This configuration results in a 2-ohm load.

Refer to your amplifier's manual for its stable impedance range. Incorrect wiring can damage both the subwoofer and the amplifier.



Angled view of the Skar Audio EVL-15 D4 subwoofer, showing the dual voice coil terminals for wiring.

### 5.3 Amplifier Selection

Select an amplifier that can provide 1,250 Watts RMS power at the chosen impedance (2 Ohm or 8 Ohm). Matching the amplifier's output to the subwoofer's RMS rating is critical for performance and reliability.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Initial Power-Up and Break-in

After installation, gradually introduce power to the subwoofer. A break-in period of approximately 20-30 hours of normal listening at moderate volumes is recommended. This allows the suspension components to loosen up and reach their optimal performance characteristics.

### 6.2 Amplifier Gain Setting

Set the amplifier gain correctly to prevent clipping and distortion. Start with the gain at its minimum, then slowly increase it until you hear distortion, then back off slightly. Never use the gain control as a volume knob.

### 6.3 Crossover Settings

Utilize your amplifier's or head unit's low-pass filter (LPF) to send only low frequencies to the subwoofer. A typical LPF setting for the EVL-15 D4 would be between 60 Hz and 80 Hz, with a slope of 12dB or 24dB per octave. Experiment to find the best blend with your other speakers.

## 7. MAINTENANCE

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The Skar Audio EVL-15 D4 is designed for durability, but proper care will extend its lifespan and maintain performance.

- **Cleaning:** Keep the subwoofer cone and surround free of dust and debris. Use a soft, dry cloth for cleaning. Avoid harsh chemicals.

- **Inspection:** Periodically inspect the wiring connections for tightness and corrosion. Check the cone and surround for any signs of damage or wear.
- **Environmental Factors:** Avoid exposing the subwoofer to extreme temperatures or moisture.

## 8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound from Subwoofer	Loose wiring, amplifier off, incorrect settings, blown fuse.	Check all power and signal connections. Verify amplifier is on and receiving signal. Inspect fuses. Review head unit/amplifier settings.
Distorted Sound	Amplifier gain too high, incorrect crossover settings, damaged subwoofer.	Reduce amplifier gain. Adjust LPF settings. Check for physical damage to the subwoofer cone or surround.
Subwoofer Overheating	Underpowered amplifier, incorrect impedance match, prolonged high volume.	Ensure amplifier provides sufficient RMS power. Verify correct impedance wiring. Reduce listening volume. Ensure adequate ventilation for the amplifier.

If these steps do not resolve the issue, please contact Skar Audio customer support or a qualified car audio technician.

## 9. OFFICIAL PRODUCT VIDEOS

Explore the Skar Audio EVL Series with these official product videos:

### Skar Audio "EVL Series" Product Line-Up - 2,500 Watts Peak Power

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This video provides an overview of the Skar Audio EVL Series product line, highlighting key features and power capabilities, including the 2,500 Watts peak power of the subwoofers.

### Skar Audio EVL-12 D2 Unboxing

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An unboxing video of the Skar Audio EVL-12 D2 subwoofer. While this video features the 12-inch model, it offers a visual representation of the EVL series' build quality and packaging.

## 10. WARRANTY AND SUPPORT

The Skar Audio EVL-15 D4 Subwoofer comes with a **2-year limited warranty**. This warranty covers manufacturing defects and ensures your product performs as expected under normal use conditions.

For warranty claims, technical assistance, or any questions regarding your product, please contact Skar Audio customer support through their official website or authorized dealers. Keep your proof of purchase for warranty validation.

