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- › [Skar Audio](#) /
- › [Skar Audio EVL-12 D4 12-inch Car Subwoofer User Manual](#)

Skar Audio EVL-12 D4

Skar Audio EVL-12 D4 12-inch Car Subwoofer User Manual

Model: EVL-12 D4

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Skar Audio EVL-12 D4 12-inch car subwoofer. Please read this manual thoroughly before attempting installation or use to ensure optimal performance and product longevity. Retain this manual for future reference.

SAFETY INFORMATION

WARNING: Improper installation or use of this product can result in serious injury or property damage. Professional installation is highly recommended.

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure all wiring is properly routed and secured to prevent damage from sharp edges or moving parts.
- Use appropriate gauge wiring for power, ground, and speaker connections to prevent overheating and potential fire hazards.
- Do not operate the subwoofer beyond its rated power handling capabilities.
- Avoid prolonged exposure to extremely high sound pressure levels, which can cause permanent hearing damage.
- Keep the subwoofer away from moisture and extreme temperatures.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and durability of your subwoofer. If you are unsure about any aspect of the installation process, consult a qualified car audio professional.

Unpacking and Inspection

Carefully remove the subwoofer from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. If damage is present, contact your retailer immediately.

Enclosure Requirements

The Skar Audio EVL-12 D4 subwoofer is designed for use in a sealed or ported enclosure. Refer to the manufacturer's recommended enclosure specifications for optimal performance. An appropriately sized and constructed enclosure is vital for proper bass response and to prevent damage to the subwoofer.

Wiring Configurations

The EVL-12 D4 features a dual 4-ohm voice coil. The wiring configuration will depend on the impedance requirements of your amplifier. Below are common wiring options:

- **1-Ohm Parallel Wiring:** Connect the positive terminal of Voice Coil 1 to the positive terminal of Voice Coil 2. Connect the negative terminal of Voice Coil 1 to the negative terminal of Voice Coil 2. Connect the combined positive to the amplifier's positive output and the combined negative to the amplifier's negative output. This results in a 1-ohm load.
- **8-Ohm Series Wiring:** Connect the positive terminal of Voice Coil 1 to the amplifier's positive output. Connect the negative terminal of Voice Coil 1 to the positive terminal of Voice Coil 2. Connect the negative terminal of Voice Coil 2 to the amplifier's negative output. This results in an 8-ohm load.

Always verify the final impedance with a multimeter before connecting to an amplifier. Ensure your amplifier is stable at the chosen impedance.



Image: Angled front view of the Skar Audio EVL-12 D4 12-inch subwoofer, showcasing the cone and surround.



Image: Top-down view of the Skar Audio EVL-12 D4 12-inch subwoofer with dimensions indicated, showing a 15-inch width and depth, and a 12-inch height.

OPERATING INSTRUCTIONS

Break-in Period

It is recommended to allow a break-in period for your new subwoofer. 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, improving long-term performance and durability.

Amplifier Gain Setting

Properly setting your amplifier's gain is critical. The gain control is not a volume knob; it matches the output voltage of your source unit to the input sensitivity of your amplifier. Incorrect gain settings can lead to signal clipping, which

can severely damage your subwoofer.

- Start with the amplifier gain at its minimum setting.
- Play a test tone (e.g., 50 Hz at 0 dB) or music with a wide dynamic range at about 75% of your head unit's maximum volume.
- Slowly increase the amplifier gain until you hear any distortion or clipping. Then, reduce the gain slightly until the sound is clear.
- Never increase the gain beyond the point of audible distortion.

MAINTENANCE

The Skar Audio EVL-12 D4 subwoofer requires minimal maintenance. Regular inspection and proper care will ensure its longevity.

- **Cleaning:** Use a soft, dry cloth to wipe down the subwoofer cone and frame. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Inspect the subwoofer's surround and cone for any tears, punctures, or signs of fatigue.
- **Environment:** Ensure the subwoofer is installed in an environment free from excessive dust, moisture, and direct sunlight, which can degrade materials over time.

TROUBLESHOOTING

If you experience issues with your subwoofer, refer to the following common troubleshooting steps before contacting technical support.

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none">• Power wire disconnected or fuse blown.• Ground wire disconnected.• RCA cables disconnected or faulty.• Speaker wires disconnected or shorted.• Amplifier in protection mode or faulty.• Head unit settings incorrect (subwoofer output off).	<ul style="list-style-type: none">• Check power and ground connections; replace fuse if necessary.• Ensure ground connection is secure to bare metal.• Verify RCA connections and test with known good cables.• Check speaker wire connections at both subwoofer and amplifier; inspect for shorts.• Consult amplifier manual for protection mode indicators; test amplifier with another speaker.• Verify subwoofer output is enabled and volume is up on head unit.
Distorted or Unclear Sound	<ul style="list-style-type: none">• Amplifier gain set too high (clipping).• Subwoofer over-powered or under-powered.• Incorrect crossover settings.• Damaged subwoofer cone or surround.• Loose enclosure or rattling components.	<ul style="list-style-type: none">• Reduce amplifier gain until distortion disappears.• Ensure amplifier RMS power matches subwoofer RMS power handling.• Adjust low-pass filter (LPF) on amplifier or head unit (typically 80-120 Hz).• Inspect subwoofer for physical damage.• Check enclosure for loose panels or components; tighten as needed.

Problem	Possible Cause	Solution
Subwoofer Overheating	<ul style="list-style-type: none"> • Amplifier clipping. • Improper impedance match. • Inadequate enclosure volume. • Prolonged operation at high volumes. 	<ul style="list-style-type: none"> • Re-adjust amplifier gain to eliminate clipping. • Verify wiring impedance matches amplifier's stable load. • Ensure enclosure volume meets manufacturer specifications. • Reduce listening volume or allow the system to cool down.

SPECIFICATIONS

The following table outlines the key specifications for the Skar Audio EVL-12 D4 12-inch Subwoofer:

Feature	Specification
Model Name	EVL-12 D4
Speaker Type	Subwoofer
Subwoofer Diameter	12 Inches
Peak Power	2,500 Watts
RMS Power	1,250 Watts
Voice Coil	3" High Temperature Dual 4-ohm
Cone Material	Competition Grade Paper
Surround Material	High Roll Foam
Fs (Resonance Frequency)	40 Hz
Sensitivity	85.3 dB
Frequency Response Range	25 Hz - 250 Hz
Xmax (One-way)	23.5 mm
Impedance	Dual 4 Ohm
Product Dimensions (D x W x H)	15"D x 15"W x 12"H
Item Weight	33.3 pounds (15.15 Kilograms)
Manufacturer	Skar Audio
UPC	767408281348

WARRANTY AND SUPPORT

Skar Audio products are designed for reliability and performance. This product comes with a limited warranty. For specific warranty terms and conditions, please refer to the warranty information provided with your purchase or visit the official Skar Audio website.

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Skar Audio

customer support directly. Have your product model number and purchase information ready when contacting support.

Online Resources: For additional information, FAQs, and support, visit the [Skar Audio Store on Amazon](#) or the official Skar Audio website.