



[Manuals.plus](#) /

› [Skar Audio](#) /

› Skar Audio ZVX-18v2 D1 18-inch Dual 1 Ohm SPL Car Subwoofer Instruction Manual

Skar Audio ZVX-18v2 D1

Skar Audio ZVX-18v2 D1 18-inch Dual 1 Ohm SPL Car Subwoofer Instruction Manual

Model: ZVX-18v2 D1

1. INTRODUCTION

Thank you for choosing the Skar Audio ZVX-18v2 D1 18-inch Dual 1 Ohm SPL Car Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer. Please read this manual thoroughly before installation and retain it for future reference. Proper installation and care will ensure optimal performance and longevity of your product.



Figure 1: Front view of the Skar Audio ZVX-18v2 D1 18-inch Car Subwoofer.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage and electrical hazards.
- Avoid mounting the subwoofer in locations that obstruct vehicle operation or safety features.
- Wear appropriate safety gear, including eye protection, during installation.
- Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when adjusting volume.
- If you are unsure about any aspect of installation, consult a professional car audio installer.

3. WHAT'S IN THE BOX

Upon opening the package, verify that all items are present:

- Skar Audio ZVX-18v2 D1 18" Dual 1 Ohm SPL Car Subwoofer
- Instruction Manual (this document)
- Skar Audio Decal

4. SETUP AND INSTALLATION

4.1 Enclosure Requirements

The ZVX-18v2 D1 subwoofer requires a properly designed enclosure for optimal performance. The recommended enclosure type is typically ported (vented) to achieve maximum output and deep bass response. Ensure the enclosure provides adequate internal air volume, generally around 5 cubic feet per subwoofer, and is constructed from durable materials to withstand high sound pressure levels.



Figure 2: Side view of the ZVX-18v2 D1 subwoofer, illustrating the magnet and basket assembly.

4.2 Mounting

Mount the subwoofer securely within the enclosure using appropriate fasteners. Ensure there is sufficient clearance around the subwoofer, especially for the excursion of the cone and the rear of the magnet structure. The mounting depth for this 18-inch subwoofer is significant, so verify your enclosure dimensions before installation.



Figure 3: Another side view of the ZVX-18v2 D1 subwoofer, showcasing its robust build.

4.3 Wiring Connections

The ZVX-18v2 D1 features dual 1 Ohm voice coils. Proper wiring is crucial for matching the subwoofer's impedance to your amplifier's stable operating range. Consult your amplifier's manual for compatible impedance loads. Common wiring configurations for dual 1 Ohm voice coils include:

- **Parallel Wiring (0.5 Ohm total impedance):** Connect positive terminals of both voice coils together, and negative terminals of both voice coils together. Then connect to the amplifier. This configuration results in a very low impedance and should only be used with amplifiers stable at 0.5 Ohm.
- **Series Wiring (2 Ohm total impedance):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. The remaining positive and negative terminals connect to the amplifier. This configuration results in a 2 Ohm load.

Always use high-quality speaker wire of adequate gauge to minimize power loss and ensure a secure connection. Ensure all connections are tight and free from corrosion.



Figure 4: Angled view showing the cone, surround, and terminal connections of the ZVX-18v2 D1.

4.4 Power Handling

The ZVX-18v2 D1 has an RMS power rating of 1,600 Watts and a Peak Power rating of 3,200 Watts. Select an amplifier that can provide sufficient power within the RMS rating to drive the subwoofer effectively without causing damage. Underpowering can be as detrimental as overpowering, leading to clipping and distortion.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up and Break-in

After installation, perform an initial power-up at a low volume. Gradually increase the volume and check for any unusual noises or distortion. It is recommended to allow a break-in period of several hours of moderate use before operating the subwoofer at high power levels. This allows the suspension components to loosen and perform optimally.

5.2 Amplifier Settings

Properly adjust your amplifier's gain, crossover, and bass boost settings. The gain control should be set to match the output voltage of your head unit, not as a volume control. Use a low-pass filter (LPF) to send only low frequencies to the subwoofer, typically between 60Hz and 100Hz, depending on your system and preferences. Avoid excessive bass boost, which can lead to distortion and damage.

6. MAINTENANCE

The Skar Audio ZVX-18v2 D1 subwoofer requires minimal maintenance. Regular inspection and cleaning will help ensure its longevity:

- **Cleaning:** Gently wipe the cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check the speaker terminals for secure connections and signs of corrosion. Inspect the surround for any tears or damage.
- **Environmental Factors:** Protect the subwoofer from extreme temperatures, direct sunlight, and moisture.

7. TROUBLESHOOTING

If you experience issues with your subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer	No power to amplifier; loose wiring; incorrect amplifier settings; damaged subwoofer	Check amplifier power and fuses; verify all wiring connections; review amplifier settings (gain, LPF); inspect subwoofer for visible damage.
Distorted or unclear sound	Amplifier gain too high; incorrect crossover settings; enclosure issues; damaged voice coil	Reduce amplifier gain; adjust LPF settings; ensure enclosure is sealed and properly sized; inspect subwoofer for damage.
Subwoofer rattling	Loose mounting; foreign object in enclosure; damaged voice coil or spider	Tighten mounting screws; check enclosure for loose items; inspect subwoofer for internal damage.
Subwoofer overheating	Overpowering; insufficient ventilation; incorrect impedance match	Reduce power; ensure adequate airflow around amplifier and subwoofer; verify correct impedance wiring.

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

8. SPECIFICATIONS

Key technical specifications for the Skar Audio ZVX-18v2 D1 18-inch Dual 1 Ohm SPL Car Subwoofer:

Feature	Specification
Model Name	ZVX-18v2 D1
Subwoofer Diameter	18 Inches
Voice Coil Configuration	Dual 1 Ohm
RMS Power	1,600 Watts
Peak Power	3,200 Watts

Feature	Specification
Frequency Response (Fs)	26.1 Hz
Xmax	29mm
Voice Coil Size	3" 8-layer Copper
Magnet Type	Triple Stack Ferrite
Cone Material	Competition Grade Paper
Surround Material	High Roll Foam
Cooling Design	Advanced Air Flow
Item Weight	57 Pounds
Item Dimensions (D x W x H)	22"D x 22"W x 16"H



Figure 5: Detailed front view of the ZVX-18v2 D1 subwoofer.

9. PRODUCT OVERVIEW VIDEO

Watch the official product video for an overview of the Skar Audio ZVXv2 series subwoofers, highlighting key features and design elements.

Your browser does not support the video tag.

Video 1: Skar Audio ZVXv2 Series Product Line-Up. This video provides a visual overview of the ZVXv2 series, including design and performance aspects.

10. WARRANTY INFORMATION

The Skar Audio ZVX-18v2 D1 subwoofer comes with a **2-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, abuse, accident, neglect, or unauthorized modification. Please retain your proof of purchase for warranty claims.

11. CUSTOMER SUPPORT

For technical assistance, warranty inquiries, or further information regarding your Skar Audio ZVX-18v2 D1 subwoofer, please visit the official Skar Audio website or contact their customer support department. Contact information can typically be found on the manufacturer's website or your purchase documentation.