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Skar Audio EVL-1X65D4-V-LP

Skar Audio EVL-1X65D4-V-LP 6.5" Low-Profile Subwoofer Enclosure User Manual

Model: EVL-1X65D4-V-LP | Brand: Skar Audio

Introduction

The Skar Audio EVL-1X65D4-V-LP is a 6.5-inch low-profile loaded subwoofer enclosure designed to deliver powerful and responsive bass in vehicles with limited space. This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your subwoofer system to ensure optimal performance and longevity.

Figure 1: Angled view of the Skar Audio EVL-1X65D4-V-LP Low-Profile Subwoofer Enclosure, showcasing its compact design and the subwoofer grille.

Product Overview

The EVL-1X65D4-V-LP system integrates a high-performance EVL-65 D4 subwoofer within a custom-engineered enclosure. Key features include:

- **Low-Profile Design:** Measuring only 5.25 inches in depth, ideal for tight spaces like behind truck seats or in compact car trunks.
- **Powerful Subwoofer:** Equipped with one EVL-65 D4 subwoofer, rated at 200W RMS and 400W Max power.
- **Optimized Enclosure:** Features a unique slot port design for enhanced bass reproduction, constructed from high-quality 5/8" medium density fiberboard (MDF) with internal bracing for durability.
- **Pre-wired for Convenience:** Internally wired to a 2-ohm final impedance load at the terminals for easy integration with compatible amplifiers.
- **Protective Grille:** A subwoofer grille is affixed to the driver for maximum protection.
- **Premium Finish:** Wrapped in a durable, attractive black carpet.



Figure 2: Front view of the subwoofer enclosure, highlighting the protective grille over the 6.5-inch subwoofer.

Setup and Installation

Proper installation is crucial for the performance and safety of your subwoofer system. It is recommended that installation be performed by a qualified car audio professional.

1. Choosing an Amplifier

Select an amplifier that can provide between 200W RMS and 400W Max power at a 2-ohm impedance. Ensure the amplifier's output matches the subwoofer's power handling capabilities to prevent damage.

2. Wiring Connections

The EVL-1X65D4-V-LP is pre-wired internally to present a 2-ohm load at its terminals. Connect your amplifier's subwoofer output to the enclosure's terminals using appropriate gauge speaker wire. Ensure correct polarity (positive to positive, negative to negative) to avoid phase issues and poor sound quality.

Figure 3: Rear view of the enclosure, showing the spring-loaded terminal connections for amplifier wiring. Note the "EVL-1X65D4-V-LP" model designation and power rating near the terminals.

3. Mounting and Placement

Secure the enclosure firmly in your vehicle to prevent movement during driving. Common placement areas include behind truck seats, in the trunk, or other suitable compartments. Ensure adequate ventilation around the enclosure and amplifier.

- Consider the dimensions: 9.88"D x 14.25"W x 5.25"H for optimal fit.
- Avoid placing objects directly on or against the subwoofer grille to prevent damage.



Figure 4: Diagram illustrating the dimensions of the Skar Audio EVL-1X65D4-V-LP subwoofer enclosure: 9.88 inches deep, 14.25 inches wide, and 5.25 inches high.

Operating Instructions

1. Initial Power-Up

1. Before turning on your audio system, double-check all wiring connections.
2. Set your amplifier's gain control to its minimum setting.
3. Turn on your head unit and then your amplifier.
4. Slowly increase the volume on your head unit.

2. Amplifier Tuning

Adjust the amplifier's gain setting carefully. The gain control is not a volume knob; it matches the output voltage of your head unit to the input sensitivity of the amplifier. Improper gain settings can lead to distortion and damage to the subwoofer.

- **Low-Pass Filter (LPF):** Set the LPF on your amplifier to filter out high frequencies, typically between 60Hz and 100Hz, allowing only bass frequencies to reach the subwoofer. The enclosure is tuned at 56 Hz.
- **Subsonic Filter:** If your amplifier has a subsonic filter, set it slightly below the enclosure's tuning frequency (e.g., 30-40Hz) to protect the subwoofer from playing frequencies too low for the port design.
- **Bass Boost:** Use bass boost sparingly, if at all. Excessive bass boost can cause distortion and damage.

3. Listening Levels

While the EVL-1X65D4-V-LP is designed for powerful bass, prolonged listening at extremely high, distorted volumes can damage the subwoofer. Listen for signs of distortion (e.g., muddy bass, rattling sounds) and reduce the volume immediately if heard.

Maintenance

The Skar Audio EVL-1X65D4-V-LP requires minimal maintenance to ensure its longevity and performance.

- **Cleaning:** Use a soft, dry cloth to wipe down the enclosure's carpeted exterior. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Inspect the subwoofer cone and surround for any signs of damage.
- **Environment:** Keep the enclosure away from excessive moisture, direct sunlight, and extreme temperatures.

Troubleshooting

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

Problem	Possible Cause	Solution
No Sound from Subwoofer	No power to amplifier Loose or incorrect wiring Amplifier in protect mode Head unit settings	Check power, ground, and remote turn-on wires. Verify all speaker and RCA connections. Check amplifier's indicator lights; consult amplifier manual. Ensure subwoofer output is enabled and volume is up.
Distorted Sound	Amplifier gain set too high Clipping from head unit Incorrect LPF setting Damaged subwoofer	Reduce amplifier gain. Lower head unit volume. Adjust LPF to appropriate frequency (e.g., 60-100Hz). Inspect subwoofer for physical damage.
Weak Bass Output	Incorrect amplifier settings Phase issue Subwoofer polarity reversed	Adjust gain, LPF, and bass boost (if used). Check amplifier's phase switch (0° or 180°). Verify positive and negative connections at both amplifier and enclosure.

If problems persist after attempting these solutions, contact Skar Audio customer support or a certified car audio technician.

Specifications

Feature	Detail
Model Name	EVL-1X65D4-V-LP
Speaker Type	Subwoofer
Subwoofer Diameter	6.5 Inches
RMS Power Handling	200 Watts
Max Power Handling	400 Watts
Nominal Impedance	2 Ohms (final load)
Enclosure Type	Slot Ported, Low-Profile
Enclosure Material	5/8" High Strength MDF
Enclosure Tuning Frequency	56 Hz
Product Dimensions (D x W x H)	9.88" x 14.25" x 5.25"
Item Weight	17.36 pounds

Feature	Detail
Finish	Premium Black Carpet

What's in the Box

Your Skar Audio EVL-1X65D4-V-LP package includes:

- 1 x Skar Audio EVL-1X65D4-V-LP 6.5" 400 Watt Low Profile Slot Port Loaded Car Subwoofer Enclosure
- 1 x Skar Audio Decal

Warranty and Support

The Skar Audio EVL-1X65D4-V-LP 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 support, troubleshooting assistance, or warranty claims, please contact Skar Audio customer service through their official channels.
Manufacturer: Skar Audio
Website: www.skaraudio.com

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