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Skar Audio EVL-65 D4

Skar Audio EVL-65 D4 6.5" Car Subwoofer

Instruction Manual

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Skar Audio EVL-65 D4 6.5-inch car subwoofer. Please read this manual thoroughly before attempting to install or operate the subwoofer to ensure optimal performance and safety.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure proper wiring and connections to prevent damage to the subwoofer, amplifier, or vehicle's electrical system.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.
- Do not operate the subwoofer beyond its rated power handling capabilities to prevent damage.
- Seek professional installation if you are unsure about any steps.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Skar Audio EVL-65 D4 6.5" Dual 4 Ohm Subwoofer
- Instruction Manual (this document)

PRODUCT OVERVIEW



Figure 1: Angled front view of the Skar Audio EVL-65 D4 subwoofer, showcasing the cone and surround.



Figure 2: Top-down view of the Skar Audio EVL-65 D4 subwoofer, highlighting the Skar Audio logo on the dust cap.



Figure 3: Angled rear view of the subwoofer, showing the robust motor structure and wiring terminals.



Figure 4: Close-up view of the dual 4 Ohm wiring terminals, indicating positive and negative connections.

SETUP AND INSTALLATION

1. Enclosure Requirements

The Skar Audio EVL-65 D4 is designed for optimal performance in a properly sized and constructed enclosure. Consult a car audio professional or use a reputable enclosure design software for precise box specifications tailored to your vehicle and desired sound.

2. Mounting

Ensure the mounting surface is rigid and free from obstructions. Use appropriate mounting hardware (not included) to secure the subwoofer firmly. The subwoofer requires a cutout diameter of approximately 5.7 inches (145mm) and a mounting depth of 4.13 inches (105mm).

3. Wiring Connections

The EVL-65 D4 features a dual 4 Ohm voice coil configuration, offering flexibility in wiring. Proper impedance matching

with your amplifier is crucial for optimal performance and to prevent damage.

Parallel Wiring (2 Ohm Load)

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. Then, connect the combined positive to the amplifier's positive terminal and the combined negative to the amplifier's negative terminal. This configuration results in a 2 Ohm load.

Series Wiring (8 Ohm Load)

Connect the positive (+) terminal of Voice Coil 1 to the amplifier's positive terminal. 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 terminal. This configuration results in an 8 Ohm load.

Important: Always verify your amplifier's stable impedance range before wiring. Incorrect impedance can lead to amplifier overheating or damage.

OPERATING INSTRUCTIONS

1. Break-in Period

Allow a break-in period of approximately 20-30 hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components to loosen up and perform optimally.

2. Amplifier Gain Setting

Set your amplifier's gain control carefully. Do not use the gain control as a volume knob. It should be set to match the output voltage of your head unit. Setting the gain too high can lead to clipping and damage to the subwoofer.

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 this subwoofer is between 80Hz and 120Hz. A subsonic filter (HPF) set around 25-30Hz is also recommended to protect the subwoofer from extremely low, damaging frequencies.

MAINTENANCE

- Keep the subwoofer cone and surround clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Regularly check wiring connections for tightness and corrosion.
- Avoid spilling liquids on the subwoofer.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Sound from Subwoofer	No power to amplifier, loose wiring, amplifier in protect mode, incorrect input signal.	Check amplifier power, ground, and remote turn-on connections. Verify all speaker and RCA cables are securely connected. Check amplifier fuses.
Distorted Sound	Amplifier gain too high, incorrect crossover settings, damaged voice coil, poor enclosure.	Reduce amplifier gain. Adjust LPF and subsonic filter settings. Inspect subwoofer for physical damage. Ensure enclosure is properly sealed and sized.

Problem	Possible Cause	Solution
Subwoofer Overheating	Underpowered amplifier, incorrect impedance, prolonged high volume use, poor ventilation.	Ensure amplifier provides sufficient RMS power. Verify correct impedance matching. Allow for cool-down periods. Ensure adequate airflow around the amplifier.

SPECIFICATIONS

Feature	Detail
Model Name	EVL-65 D4
Speaker Type	Subwoofer
Subwoofer Diameter	6.5 Inches
Peak Power	400 Watts
RMS Power	200 Watts
Impedance	Dual 4 Ohm
Voice Coil	2" Copper
Sensitivity (SPL)	82.8 dB
Fs (Resonance Frequency)	64 Hz
Product Dimensions (D x W x H)	7.5"D x 7.5"W x 5"H
Item Weight	7.8 Pounds

WARRANTY INFORMATION

Skar Audio products come with a limited warranty. For specific details regarding warranty coverage, duration, and claims procedures, please refer to the official Skar Audio website or contact their customer support directly. Keep your proof of purchase for warranty purposes.

CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please visit the official Skar Audio website or contact their customer service team:

Website: www.skaraudio.com

Brand Store: [Skar Audio Amazon Store](#)