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Skar Audio SDR-15 D4

Skar Audio SDR-15 D4 15-inch Dual 4 Ohm Car Subwoofers Instruction Manual

Model: SDR-15 D4

1. Introduction

This manual provides detailed instructions for the Skar Audio SDR-15 D4 15-inch Dual 4 Ohm Car Subwoofers. Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the performance and lifespan of your subwoofers. This product is designed for automotive audio applications and requires professional installation or advanced technical knowledge.

2. Product Features

- **Peak Power:** 1200 Watts
- **RMS Power:** 600 Watts
- **Voice Coil:** 2.5-inch High Temperature Copper
- **Cone Material:** Competition Grade Pressed Paper
- **Frequency Response:** 25 - 250 Hz
- **Motor Structure:** High Flux Ferrite
- **Surround:** High Roll Foam Surround
- **Impedance:** Dual 4 Ohm



Image 2.1: Pair of Skar Audio SDR-15 D4 Subwoofers

3. Safety Information

Adhere to the following safety guidelines during installation and operation:

- Always disconnect the vehicle's battery before performing any electrical work to prevent short circuits and electrical shock.
- Ensure proper ventilation for the subwoofer and amplifier to prevent overheating.
- Mount subwoofers securely within an appropriate enclosure to prevent movement during vehicle operation, which could cause injury or damage.
- Avoid prolonged exposure to extremely high volume levels, as this can cause permanent hearing damage.
- Use appropriate gauge wiring for power, ground, and speaker connections to handle the current and power output.

4. Setup and Installation

4.1. What's in the Box

- Two (2) Skar Audio SDR-15 D4 15-inch Dual 4 Ohm Car Subwoofers

4.2. Wiring Configurations

The SDR-15 D4 features dual 4 Ohm voice coils, offering flexibility in wiring. Proper wiring is critical for optimal performance and to match your amplifier's stable impedance. Consult your amplifier's manual for its stable impedance ratings.

Single Subwoofer Wiring Options:

- **Parallel Wiring (2 Ohm Load):** Connect the positive terminals of both voice coils together, and the negative terminals of both voice coils together. Connect the combined positive to the amplifier's positive output and the combined negative to the amplifier's negative output.
- **Series Wiring (8 Ohm Load):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Connect the remaining positive terminal to the amplifier's positive output and the remaining negative terminal to the amplifier's negative output.

Two Subwoofers Wiring Options (Common Examples):

When using two SDR-15 D4 subwoofers, you have several options depending on the desired final impedance:

- **1 Ohm Total Load:** Wire each subwoofer's voice coils in parallel (resulting in 2 Ohm per subwoofer). Then, wire the two 2 Ohm subwoofers in parallel to the amplifier.
- **4 Ohm Total Load:** Wire each subwoofer's voice coils in parallel (resulting in 2 Ohm per subwoofer). Then, wire the two 2 Ohm subwoofers in series to the amplifier.
  Alternatively: Wire each subwoofer's voice coils in series (resulting in 8 Ohm per subwoofer). Then, wire the two 8 Ohm subwoofers in parallel to the amplifier.

Always double-check your wiring with a multimeter before connecting to the amplifier to ensure the correct impedance load.



Image 4.1: Subwoofer Terminals

4.3. Enclosure Recommendations

The performance of your subwoofer is highly dependent on the enclosure it is installed in. Skar Audio recommends using a properly designed sealed or ported enclosure that matches the subwoofer's specifications. Refer to Skar Audio's official website or consult with a professional installer for specific enclosure volume and port tuning recommendations for the

SDR-15 D4.

4.4. Mounting

Ensure the subwoofer is securely mounted within the enclosure using appropriate fasteners. The mounting surface should be rigid and free from vibrations. The subwoofer should fit snugly into the cutout without excessive force.



Image 4.2: Top View of Subwoofer

5. Operating Instructions

5.1. Break-in Period

Allow a break-in period of approximately 20-30 hours of normal listening before operating the subwoofers at high volumes. This allows the suspension components (surround and spider) to loosen up and reach their optimal performance characteristics.

5.2. Amplifier Gain Setting

Set your amplifier's gain control carefully. The gain control is not a volume knob; it matches the output voltage of your head unit to the input sensitivity of your amplifier. Improper gain settings can lead to clipping, which can severely damage your subwoofers. Start with the gain at its minimum, then slowly increase it until you hear distortion, then back it off

slightly.

5.3. Crossover Settings

Utilize your amplifier's or head unit's low-pass filter (LPF) to ensure the subwoofers only reproduce low frequencies. A typical LPF setting for subwoofers is between 60 Hz and 100 Hz, depending on your system's overall frequency response and personal preference. Avoid sending full-range audio signals to the subwoofers.

6. Maintenance

The Skar Audio SDR-15 D4 subwoofers require minimal maintenance:

- **Cleaning:** Periodically wipe the subwoofer cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Regularly inspect the subwoofer for any signs of damage, such as tears in the surround or cone, loose connections, or unusual odors. Address any issues promptly.
- **Environment:** Ensure the subwoofer is not exposed to extreme temperatures, direct sunlight, or moisture, which can degrade materials over time.

7. Troubleshooting

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

Problem	Possible Cause	Solution
No Sound	• No power to amplifier • Loose or incorrect wiring • Amplifier in protect mode • Head unit settings	• Check amplifier power, ground, and remote turn-on connections. • Verify all speaker and RCA connections. • Check amplifier's fuses and internal protection status. • Ensure head unit is sending signal and subwoofer output is enabled.
Distorted Sound	• Amplifier gain set too high (clipping) • Incorrect crossover settings • Damaged subwoofer • Improper enclosure	• Reduce amplifier gain until distortion is eliminated. • Adjust LPF settings. • Inspect subwoofer for physical damage. • Ensure enclosure is correctly sized and tuned.
Weak Bass	• Incorrect wiring (e.g., phase issues) • Low amplifier power • Improper enclosure • Gain set too low	• Verify wiring polarity. • Ensure amplifier is adequately powered and matched to subwoofers. • Check enclosure design. • Increase amplifier gain gradually.
Overheating	• Amplifier clipping • Improper impedance load • Insufficient ventilation	• Reduce amplifier gain. • Verify wiring impedance matches amplifier. • Ensure amplifier and subwoofer have adequate airflow.

8. Specifications

Specification	Value
Model Name	SDR-15 D4
Speaker Type	Subwoofer
Subwoofer Diameter	15 Inches
Peak Power	1200 Watts
RMS Power	600 Watts
Impedance	Dual 4 Ohm
Frequency Response	25 - 250 Hz
Voice Coil	2.5" High Temperature Copper
Connectivity Technology	Wired
Item Weight (Pair)	44 Pounds
Product Dimensions (Package for Pair)	18"D x 18"W x 24"H
UPC	810028810310



Image 8.1: Subwoofer Dimensions (Note: Dimensions shown are typically for packaging of the pair)

9. Warranty Information

Skar Audio SDR-15 D4 subwoofers come with a Limited Warranty. For specific details regarding warranty coverage, terms, and conditions, please refer to the official Skar Audio website or contact Skar Audio customer support directly. Keep your proof of purchase for warranty claims.

10. Support

For further assistance, technical support, or to explore other Skar Audio products, please visit the official Skar Audio website or their brand store:

- Skar Audio Brand Store on Amazon

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