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**Skar Audio SDR-8 D4**

# Skar Audio SDR-8 D4 8-inch Dual 4 Ohm Car Subwoofer Instruction Manual

## 1. Introduction

Thank you for choosing the Skar Audio SDR-8 D4 8-inch Dual 4 Ohm Car Subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer. Please read this guide thoroughly before attempting installation or use to ensure optimal performance and product longevity.

## 2. Safety Information

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Mount the subwoofer securely to prevent movement during vehicle operation.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.
- Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when adjusting volume levels.
- Consult a professional car audio installer if you are unsure about any installation steps.

## 3. Package Contents

Verify that all items are present in the package:

- SDR-8 D4 Subwoofer
- Instruction Manual (this document)
- Skar Audio Decal

## 4. Features

The Skar Audio SDR-8 D4 subwoofer incorporates several design elements for robust performance:

- 8-Inch Dual 4-ohm Car Subwoofer
- Peak Power: 700 Watts | RMS Power: 350 Watts

- 2-inch 4-Layer High Temperature Copper Voice Coil
- High Roll Foam Surround and Competition Grade Pressed Paper Cone
- Frequency Response Range: 30 Hz - 350 Hz
- Sensitivity: 83.7 dB
- High Flux Ferrite Motor
- Advanced Air Flow Cooling Design




Image 1: Angled view of the Skar Audio SDR-8 D4 8-inch subwoofer, showcasing its cone and surround.

## 5. Setup & Installation

## 5.1 Enclosure Recommendations

The performance of your subwoofer is highly dependent on the enclosure it is installed in. For optimal sound quality and longevity, ensure the enclosure is properly constructed and sealed. Consult a car audio specialist for specific enclosure design recommendations tailored to your vehicle and listening preferences.

## 5.2 Wiring Configurations (Dual 4 Ohm Voice Coils)

The SDR-8 D4 features dual 4-ohm voice coils, offering flexibility in wiring to achieve different impedance loads for your amplifier. Always ensure your amplifier is stable at the chosen impedance.

### Parallel Wiring (2 Ohm Total Impedance)

Connecting the two 4-ohm voice coils in parallel will result in a 2-ohm load. This configuration allows the amplifier to deliver more power, provided it is 2-ohm stable.

- 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 (+) terminals to the amplifier's positive (+) output.
- Connect the combined negative (-) terminals to the amplifier's negative (-) output.

### Series Wiring (8 Ohm Total Impedance)

Connecting the two 4-ohm voice coils in series will result in an 8-ohm load. This configuration is suitable for amplifiers that require a higher impedance load or for systems where multiple subwoofers are used.

- 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.



Image 2: Close-up view of the subwoofer's dual voice coil terminals, showing connection points for wiring.

### 5.3 Mounting

Ensure the subwoofer is securely mounted within its enclosure. Use appropriate screws and ensure a tight seal between the subwoofer frame and the enclosure baffle. Avoid overtightening screws, which can damage the frame.

## 6. Operating Instructions

### 6.1 Power Handling

The SDR-8 D4 has an RMS power rating of 350 Watts and a peak power rating of 700 Watts. It is crucial to match your amplifier's output to these ratings. Underpowering or overpowering the subwoofer can lead to damage. Ensure your

amplifier's gain is set correctly to prevent clipping, which can cause distortion and damage.

### 6.2 Break-in Period

Allow a break-in period of approximately 20-30 hours of normal listening before operating the subwoofer at its maximum potential. This allows the suspension components (surround and spider) to loosen and reach their optimal compliance, improving overall performance and longevity.

## 7. Maintenance

The Skar Audio SDR-8 D4 subwoofer requires minimal maintenance. Follow these guidelines to ensure its longevity:

- Keep the subwoofer cone and surround free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid touching the cone or dust cap with excessive force, as this can cause damage.
- Regularly inspect wiring connections for tightness and corrosion.
- Ensure the subwoofer is not exposed to direct sunlight for extended periods, which can degrade the surround material.




Image 3: Front view of the Skar Audio SDR-8 D4 subwoofer, highlighting the cone and surround.

## 8. Troubleshooting

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

| Problem | Possible Cause | Solution |
| --- | --- | --- |

| Problem | Possible Cause | Solution |
|---|---|---|
| No Sound from Subwoofer | • Loose or incorrect wiring<br>• Amplifier not powered on<br>• Amplifier in protect mode<br>• Blown fuse<br>• Incorrect gain settings | • Check all wiring connections for tightness and correct polarity.<br>• Verify amplifier power and remote turn-on signal.<br>• Check amplifier for fault indicators; reset if necessary.<br>• Inspect and replace any blown fuses.<br>• Adjust amplifier gain and crossover settings. |
| Distorted Sound | • Amplifier gain set too high (clipping)<br>• Incorrect crossover settings<br>• Damaged subwoofer or voice coil<br>• Poor enclosure seal | • Reduce amplifier gain until distortion is eliminated.<br>• Adjust low-pass filter on amplifier or head unit.<br>• Inspect subwoofer cone and voice coil for physical damage.<br>• Check enclosure for air leaks and reseal if necessary. |
| Subwoofer Overheating | • Underpowered amplifier (clipping)<br>• Overpowered amplifier<br>• Improper enclosure volume<br>• Extended periods of high volume | • Ensure amplifier power matches subwoofer RMS rating.<br>• Reduce volume or amplifier gain.<br>• Verify enclosure volume meets recommendations.<br>• Allow subwoofer to cool down. |

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

## 9. Specifications

Detailed technical specifications for the Skar Audio SDR-8 D4 subwoofer:

| Specification | Value |
|---|---|
| Model Name | SDR-8 D4 |
| Speaker Type | Subwoofer |
| Subwoofer Diameter | 8 Inches |
| Impedance | Dual 4 Ohm |
| Speaker Maximum Output Power | 700 Watts (Peak) |
| RMS Power | 350 Watts |
| Frequency Response Range | 30 Hz - 350 Hz |
| Sensitivity (Signal-to-Noise Ratio) | 83.7 dB |

| Specification | Value |
| --- | --- |
| Voice Coil Size | 2-inch |
| Voice Coil Material | 4-Layer High Temperature Copper |
| Magnet Type | High Flux Ferrite |
| Product Dimensions | 9.75 x 9.75 x 7.5 inches |
| Item Weight | 10 Pounds |
| Recommended Uses For Product | Car Audio |



Image 4: Bottom view of the Skar Audio SDR-8 D4 subwoofer, illustrating the magnet structure and cooling design.

## 10. Warranty and Support

The Skar Audio SDR-8 D4 subwoofer comes with a Limited Warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official Skar Audio website. For technical assistance, troubleshooting, or warranty claims, please contact Skar Audio customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your product model (SDR-8 D4) and purchase information readily available.
You can find more information and support resources on theSkar Audio Store on Amazon.


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