Skar Audio SVR-15 D2

Skar Audio SVR-15 D2 15" Car Subwoofer User Manual

Model: SVR-15 D2 | Brand: Skar Audio

1. Product Overview

The Skar Audio SVR-15 D2 is a high-performance 15-inch car subwoofer designed to deliver incredibly deep, dynamic, and powerful bass. Engineered with precision and robust components, this subwoofer is built for enthusiasts seeking exceptional sound quality and durability in their vehicle audio systems.



Figure 1.1: Angled view of the Skar Audio SVR-15 D2 15-inch Car Subwoofer, showcasing its robust design and black finish.

2. Key Features

- **Peak Power:** 1,600 Watts
- **RMS Power:** 800 Watts
- **Voice Coil:** 2.6" (65.5mm) dual 2-ohm high temperature 4-layer copper Voice Coil
- **Motor:** Powerful high flux ferrite motor with advanced air Flow Cooling Design
- **Sensitivity:** 88.5 dB
- **Surround & Cone:** High Roll Foam Surround stitched to competition Grade pressed paper cone
- **Frequency Response:** 20 Hz - 250 Hz
- **Mounting Depth:** 7.23 inches
- **Impedance:** Dual 2 Ohm

3. What's in the Box

Upon opening the package, you should find the following components:

- Skar Audio SVR-15 D2 15-inch Dual 2-ohm Car Subwoofer



Figure 3.1: Front view of the Skar Audio SVR-15 D2 subwoofer, showing the cone and surround.

4. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your Skar Audio SVR-15 D2 subwoofer. It is highly recommended that installation be performed by a qualified professional.

4.1 Enclosure Requirements

The SVR-15 D2 requires a properly designed and constructed enclosure for optimal performance. Consult Skar Audio's official website or a car audio specialist for recommended enclosure specifications (sealed or ported) tailored to this model. Ensure the enclosure is robust, airtight (for sealed), and adequately braced to prevent panel flex.



Figure 4.1: Dimensional drawing of the Skar Audio SVR-15 D2 subwoofer, indicating its overall size and mounting depth.

4.2 Wiring Configurations (Dual 2 Ohm Voice Coils)

The SVR-15 D2 features dual 2-ohm voice coils, offering flexibility in wiring to achieve different final impedances for your amplifier. Always ensure your amplifier is stable at the chosen impedance.

- **1 Ohm Parallel Wiring:** 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 terminals to the amplifier's positive output and the combined negative terminals to the amplifier's negative output. This configuration presents a 1-ohm load to the amplifier.
- **4 Ohm Series Wiring:** 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. This configuration presents a 4-ohm load to the amplifier.



Figure 4.2: Side view of the SVR-15 D2, highlighting the dual voice coil terminals for wiring connections.

4.3 Power and Ground Connections

Use appropriate gauge power and ground wire for your amplifier's power output. Ensure the power wire is fused close to the battery. The ground wire should be as short as possible and connected to a clean, unpainted metal surface on the vehicle chassis.

4.4 Signal Input

Connect your amplifier's RCA inputs to the head unit's subwoofer pre-outs. If your head unit does not have pre-outs, a line output converter (LOC) may be required.

5. Operating Instructions

Once installed, follow these guidelines for optimal performance and to ensure the longevity of your subwoofer.

5.1 Break-in Period

Allow a break-in period of approximately 20-30 hours of normal listening before pushing the subwoofer to its maximum capabilities. During this period, play music at moderate volumes to allow the suspension components (surround and spider) to loosen up and reach their optimal compliance.

5.2 Amplifier Settings

- **Gain Setting:** Set the amplifier gain correctly to match the output voltage of your head unit. Do not use the gain control as a volume knob; it should be set to prevent clipping and distortion.
- **Low-Pass Filter (LPF):** Set the LPF on your amplifier to filter out frequencies above the subwoofer's effective range, typically between 60 Hz and 100 Hz. This ensures the subwoofer only reproduces bass frequencies.
- **Subsonic Filter (HPF):** If your amplifier has a subsonic filter (also known as a high-pass filter for subwoofers), set it slightly below your ported enclosure's tuning frequency (if applicable) or around 20-25 Hz for sealed enclosures. This protects the subwoofer from playing damaging ultra-low frequencies.

- **Bass Boost:** Use bass boost sparingly, if at all. Excessive bass boost can lead to distortion and damage the subwoofer.

5.3 Listening Levels

While the SVR-15 D2 is designed for high power, prolonged listening at extreme volumes with distorted signals can damage the subwoofer. If you hear distortion, reduce the volume immediately.

6. Maintenance

Regular maintenance helps ensure the longevity and performance of your subwoofer.

- **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 inspect the subwoofer for any signs of damage, such as tears in the surround, cracks in the cone, or loose terminals.
- **Environmental Factors:** Protect the subwoofer from extreme temperatures, direct sunlight, and excessive moisture.

7. Troubleshooting

If you experience issues with your SVR-15 D2 subwoofer, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Sound	No power to amplifier, loose wiring, amplifier in protect mode, incorrect signal input.	Check power and ground connections, verify fuse, inspect speaker wires, check amplifier status light, ensure RCA cables are securely connected.
Distorted Sound	Amplifier gain set too high (clipping), incorrect crossover settings, damaged voice coil, poor enclosure.	Reduce amplifier gain, adjust LPF/subsonic filter, inspect subwoofer for physical damage, ensure enclosure is properly sealed/tuned.
Subwoofer Overheating	Underpowered amplifier, amplifier gain too high, incorrect impedance match, prolonged high volume use.	Ensure amplifier provides sufficient RMS power, correctly set gain, verify wiring impedance matches amplifier, reduce listening volume.
Weak Bass	Incorrect wiring, phase issues, improper enclosure, low gain setting.	Double-check wiring for correct series/parallel configuration, check amplifier phase switch, verify enclosure design, increase amplifier gain gradually.

If the problem persists after attempting these solutions, please contact Skar Audio customer support or a certified car audio technician.

8. Specifications

Specification	Value
Model Name	SVR-15 D2
Speaker Type	Subwoofer

Specification	Value
Recommended Uses For Product	Car
Compatible Devices	Car
Subwoofer Diameter	15 Inches
Controller Type	Voice control
Surround Sound Channel Configuration	1.0
Color	Black
Included Components	Skar Audio SVR-15 D2 15-inch Dual 2-ohm Car Subwoofer
Product Dimensions	19"D x 19"W x 11.75"H
Age Range (Description)	All ages
Item Weight	9.56 Pounds
Impedance	2 Ohm (Dual Voice Coil)
Is Waterproof	FALSE
Warranty Type	Limited
Number of Items	1
Control Method	Voice
Speaker Size	15 Inches
Power Source	Corded Electric
Woofer Diameter	15 Inches
Vehicle Service Type	Car
Customer Package Type	Flat Free Package
Audio Driver Type	Dynamic Driver
Audio Driver Size	15 Inches
Subwoofer Connectivity Technology	Wired
Connectivity Protocol	wired
Includes MP3 player?	No
Number Of Circuits	1
Number of Power Levels	1
Series Number	15
UPC	810028810679

Specification	Value
Manufacturer	Skar Audio
Speaker Maximum Output Power	800 Watts (RMS)
Connectivity Technology	RCA
Audio Output Mode	Stereo
Mounting Type	Car Mount

9. Warranty and Support

Skar Audio products come with a limited warranty. For detailed warranty information, terms, and conditions, please refer to the official Skar Audio website or contact their customer support directly. Keep your proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or warranty inquiries, please visit the Skar Audio Store on Amazon or their official website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question