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› Soundstream RSW.152 Reserve 15" DVC Subwoofer Speaker User Manual

Soundstream RSW.152

Soundstream RSW.152 Reserve 15" DVC Subwoofer Speaker User Manual

Model: RSW.152 | Brand: Soundstream

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1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Soundstream RSW.152 Reserve 15" DVC Subwoofer Speaker. Please read this manual thoroughly before attempting to install or operate the subwoofer to ensure proper function and safety. Retain this manual for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the subwoofer and associated equipment:

- **Professional Installation Recommended:** Due to the complexity of car audio systems and high power requirements, professional installation is highly recommended.
- **Power Handling:** Ensure your amplifier's power output matches the subwoofer's RMS power handling (1300W RMS). Overpowering or underpowering can lead to damage.
- **Proper Wiring:** Incorrect wiring can cause damage to the subwoofer, amplifier, or vehicle's electrical system. Always follow wiring diagrams carefully.
- **Ventilation:** Ensure adequate ventilation around the subwoofer and amplifier to prevent overheating.
- **Secure Mounting:** Mount the subwoofer securely within a proper enclosure to prevent movement during vehicle operation, which could cause injury or damage.
- **Avoid Moisture:** This subwoofer is **NOT** water resistant. Avoid exposure to moisture or extreme temperatures.
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing

damage. Use caution when adjusting volume levels.

3. PRODUCT OVERVIEW

The Soundstream RSW.152 Reserve is a high-performance 15-inch Dual Voice Coil (DVC) subwoofer designed for deep and impactful bass reproduction. It features robust construction and premium materials to ensure durability and acoustic fidelity.

Key Components:

- **Cone:** High-density Spruce pulp cone for rigidity and accurate sound reproduction.
- **Surround:** High-density poly-ether foam surround for excellent excursion and durability.
- **Voice Coil:** Massive 3-inch Dual Voice Coil (DVC) for high power handling and flexibility in wiring configurations.
- **Suspension:** Double poly-cotton blend suspension for precise cone control and longevity.
- **Motor Structure:** Over-saturated 12mm top plate and T-yoke for efficient magnetic flux and powerful performance.



Figure 3.1: Front and side view of the Soundstream RSW.152 Reserve 15" DVC Subwoofer, showcasing its robust construction and terminal connections.



Figure 3.2: Angled view of the Soundstream RSW.152 Reserve 15" DVC Subwoofer, highlighting the high-density Spruce pulp cone and poly-ether foam surround.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your subwoofer. It is highly recommended to have this subwoofer installed by a qualified car audio professional.

4.1 Enclosure Requirements:

The RSW.152 is designed to perform best in a properly constructed enclosure. The following are recommended enclosure volumes:

- **Optimum Sealed Enclosure Volume:** Approximately 2.0 cubic feet (cu ft)
- **Optimum Ported Enclosure Volume:** Approximately 4.0 cubic feet (cu ft)

Consult with your installer or use specialized software to design an enclosure that matches these specifications and your vehicle's acoustics.

4.2 Mounting:

- **Mounting Type:** Flush Mount
- **Mounting Depth:** 9.25 inches (23.5 cm)
- Ensure the mounting surface is rigid and free from obstructions.

4.3 Wiring (Dual Voice Coil 2 Ohm):

The RSW.152 features a Dual Voice Coil (DVC) design with two 2-ohm voice coils. This allows for flexible wiring configurations to achieve different final impedances for your amplifier.

- **Parallel Wiring:** Connect both 2-ohm voice coils in parallel to achieve a 1-ohm final impedance. This configuration draws more power from the amplifier and is suitable for amplifiers stable at 1 ohm.
- **Series Wiring:** Connect both 2-ohm voice coils in series to achieve a 4-ohm final impedance. This

configuration is suitable for amplifiers stable at 4 ohms and typically provides more control over the subwoofer.

Always refer to your amplifier's manual for compatible impedance loads and wiring diagrams. Ensure all connections are secure and properly insulated.

5. OPERATING THE SUBWOOFER

The Soundstream RSW.152 is a passive subwoofer and requires an external amplifier to operate. Once properly installed and connected to an appropriate amplifier, follow these guidelines:

- **Amplifier Settings:** Adjust your amplifier's gain, crossover, and bass boost settings according to your system's requirements and the subwoofer's specifications. Start with gain at minimum and slowly increase.
- **Avoid Clipping:** Clipping occurs when an amplifier is driven beyond its maximum clean output, sending a distorted signal to the subwoofer. This can cause severe damage to the voice coil. If you hear distortion, immediately reduce the volume or amplifier gain.
- **Break-in Period:** Allow a break-in period of approximately 1 month of daily use at moderate volumes. This allows the suspension components to loosen up, leading to improved performance and longevity. Avoid pushing the subwoofer to its limits during this period.
- **System Integration:** Ensure the subwoofer's output is balanced with the rest of your audio system for a cohesive sound experience.

6. MAINTENANCE

The Soundstream RSW.152 subwoofer requires minimal maintenance to ensure long-term performance:

- **Cleaning:** Periodically wipe the cone and surround with a soft, dry cloth to remove dust and debris. Do not use 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 noises. Address any issues promptly.
- **Environmental Protection:** Keep the subwoofer in a stable environment, protected from direct sunlight, extreme temperatures, and moisture.

7. TROUBLESHOOTING

If you experience issues with your Soundstream RSW.152 subwoofer, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
No sound from subwoofer.	• Loose or incorrect wiring connections. • Amplifier not powered on or in protect mode. • Head unit or amplifier settings incorrect. • Damaged voice coil.	• Check all wiring connections between subwoofer, amplifier, and head unit. • Verify amplifier power, fuses, and ground connection. Reset amplifier if in protect mode. • Ensure subwoofer output is enabled and gain is set appropriately on amplifier and head unit. • If voice coil is damaged (e.g., no resistance reading), replacement may be necessary.

Problem	Possible Cause	Solution
Distorted or unclear bass.	• Amplifier gain set too high (clipping). • Incorrect enclosure volume or design. • Subwoofer over-powered or under-powered. • Loose mounting or enclosure rattle.	• Reduce amplifier gain until distortion disappears. • Verify enclosure meets recommended specifications. • Ensure amplifier RMS power output is matched to subwoofer RMS power handling. • Check all mounting points and enclosure for rattles or air leaks.
Subwoofer smells burnt or stops working after loud use.	• Voice coil overheating due to clipping or overpowering. • Insufficient break-in period.	• This indicates voice coil damage. Reduce volume and amplifier gain. A replacement subwoofer may be required. • Ensure proper break-in period is observed before high-power use.

8. SPECIFICATIONS

Technical specifications for the Soundstream RSW.152 Reserve 15" DVC Subwoofer Speaker:

Feature	Specification
Model Number	RSW.152
Speaker Type	Subwoofer
Subwoofer Diameter	15 Inches (38.1 cm)
Max Power Handling	2600 Watts
RMS Power Handling	1300 Watts
Voice Coil Configuration	3" Dual Voice Coil (DVC) 2 Ohm
Nominal Impedance	2 Ohm (per coil)
Fs (Resonant Frequency)	26 Hz
Efficiency (1w/1m)	83.5 dB
Mounting Depth	9.25 Inches (23.5 cm)
Optimum Sealed Enclosure Volume	2.0 cu ft
Optimum Ported Enclosure Volume	4.0 cu ft
Mounting Type	Flush Mount
Water Resistance	No (Not Water Resistant)

Feature	Specification
Connectivity Technology	Wired
UPC	709483061354
Manufacturer	Soundstream

9. WARRANTY AND SUPPORT

9.1 Limited Warranty:

The Soundstream RSW.152 Reserve 15" DVC Subwoofer Speaker comes with a limited warranty. Please retain your proof of purchase for warranty claims. For specific terms and conditions of the warranty, refer to the documentation provided with your purchase or contact Soundstream customer support.

9.2 Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Soundstream customer support or visit their official website. You can also visit the official Soundstream store on Amazon for more information and products:

[Visit the Soundstream Store on Amazon](#)