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› DD Audio SW08-D4 8-inch Subwoofer Instruction Manual

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Model: SW08-D4

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DD Audio SW08-D4 8-inch Dual 4-Ohm Subwoofer. Designed for high-fidelity audio reproduction, this subwoofer features a 2-inch high-temperature voice coil, EROM surround, and a vented stamped steel frame for optimal performance and durability. Please read this manual thoroughly before use to ensure safe and correct operation.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the vehicle's battery before any installation or wiring.
- Ensure all wiring is correctly routed and secured to prevent pinching or damage.
- Use appropriate gauge wiring for power and speaker connections to prevent overheating.
- Do not expose the subwoofer to excessive moisture or extreme temperatures.
- Avoid operating the subwoofer beyond its specified power handling limits to prevent damage.
- Seek professional assistance if you are unsure about any installation steps.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your subwoofer. This subwoofer is designed for use in custom enclosures.

3.1 Enclosure Recommendations

- **Sealed Enclosure Volume:** 0.35 - 0.75 Cubic Feet
- **Ported Enclosure Volume:** 0.5 - 1.0 Cubic Feet

Ensure the enclosure is robustly constructed and sealed to prevent air leaks, which can degrade performance.

3.2 Mounting

The subwoofer features a mounting diameter of 7.168 inches and a mounting depth of 3.898 inches. Ensure adequate clearance behind the subwoofer for proper ventilation and excursion.



Figure 1: Front view of the SW08-D4 subwoofer, showing the cone and REDLINE logo.



Figure 2: Angled view of the SW08-D4, highlighting the red vented frame and push terminals.

3.3 Wiring (Dual 4-Ohm Voice Coils)

The SW08-D4 features dual 4-ohm voice coils, offering flexibility in wiring configurations to match your amplifier's impedance requirements.

- **Parallel Wiring (2 Ohms):** Connect the positive terminals of both voice coils together, and the negative terminals of both voice coils together. Then connect these combined positive and negative terminals to your amplifier. This configuration results in a 2-ohm load.
- **Series Wiring (8 Ohms):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Then connect the remaining free positive and negative terminals to your amplifier. This configuration results in an 8-ohm load.

Always verify your amplifier's stable impedance range before wiring. Incorrect wiring can damage the amplifier or subwoofer.



Figure 3: Side view of the SW08-D4, showing the robust push terminals for secure wire connections.



Figure 4: Rear view of the SW08-D4, illustrating the magnet structure and vented backplate.

4. OPERATING INSTRUCTIONS

Once installed, connect your amplifier and audio source. Start with the amplifier gain set to minimum and gradually increase it to achieve the desired volume without distortion. The SW08-D4 has a recommended RMS power handling of 100-300 watts and a peak power handling of 600 watts. Avoid prolonged operation at maximum volume or with audible distortion, as this can damage the subwoofer.

For optimal bass response, consider using a low-pass filter on your amplifier or head unit to send only low frequencies to the subwoofer.

5. MAINTENANCE

The DD Audio SW08-D4 subwoofer requires minimal maintenance. Keep the cone and surround free from dust and debris. Use a soft, dry cloth for cleaning. Do not apply any liquids or harsh chemicals directly to the subwoofer components. Regularly check wiring connections for tightness and corrosion.

6. 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 and ground connections. Verify all speaker wires are securely connected. Check amplifier fuses. Ensure head unit is sending a signal.
Distorted Sound	Amplifier gain too high; incorrect crossover settings; damaged voice coil; enclosure issues.	Reduce amplifier gain. Adjust low-pass filter settings. Inspect subwoofer cone and surround for damage. Verify enclosure integrity.
Weak Bass Output	Incorrect wiring impedance; insufficient amplifier power; phase issues; improper enclosure.	Confirm correct wiring (2 Ohm or 8 Ohm) matches amplifier. Ensure amplifier provides adequate power. Check phase setting on amplifier/head unit. Verify enclosure volume and tuning.

7. SPECIFICATIONS

Feature	Specification
Model Name	SW08-D4
Speaker Type	Subwoofer
Speaker Size	8 Inches
Voice Coil Diameter (VCD)	2 Inches
Impedance	Dual 4 Ohm (D4)
RMS Power Handling	100 - 300 Watts
Peak Power Handling	600 Watts
Piston Diameter	6.25 Inches
Fs (Resonance Frequency)	46.7 Hz

Feature	Specification
Qms (Mechanical Q)	4.266
Qes (Electrical Q)	0.5922
Qts (Total Q)	0.52
Vas (Equivalent Volume)	9.086 Liters (0.32 Cubic Feet)
dB SPL (Sensitivity)	84 dB
X _{mech} (Mechanical Excursion)	18 MM
X _{max} (Linear Excursion)	8 MM
Frame OD (Outer Diameter)	8.215 Inches
Frame OD w/Gasket	8.63 Inches
Mounting Diameter	7.168 Inches
Mounting Depth	3.898 Inches
Motor Diameter	5.27 Inches
Motor Depth	1.7 Inches
Magnet Weight	55 Ounces
Woofer Displacement	0.03 Cubic Feet
Recommended Sealed Enclosure	0.35 - 0.75 Cubic Feet
Recommended Ported Enclosure	0.5 - 1.0 Cubic Feet
Item Weight	10 Pounds
Manufacturer	DD Audio
Warranty Type	Limited

Note: Specifications are subject to change without notice.

8. WARRANTY INFORMATION

This DD Audio SW08-D4 subwoofer comes with a limited warranty. Please refer to the warranty card included with your product or visit the official DD Audio website for detailed terms and conditions regarding coverage, duration, and claims procedures. Keep your proof of purchase for warranty service.

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact DD Audio customer support. Visit the official DD Audio website for contact information and additional resources.

