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Sundown Audio SA-10 D2

Sundown Audio SA-10 D2 CLASSIC 10-inch Subwoofer Instruction Manual

Model: SA-10 D2

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Sundown Audio SA-10 D2 CLASSIC 10-inch Dual 2-Ohm 750W RMS SA Series Subwoofer. This subwoofer is designed for high-performance car audio systems and is optimized for use in small ported, sealed, and band-pass enclosures. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.



Image: Front view of the Sundown Audio SA-10 D2 CLASSIC 10-inch Subwoofer. The subwoofer features a black cone with the "Sundown Audio" logo in white, surrounded by a durable black rubber surround and a sturdy black metal frame with mounting holes.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your subwoofer. It is recommended that installation be performed by a qualified professional. Ensure all connections are secure and correctly polarized.

Enclosure Requirements

The SA-10 D2 subwoofer is designed for various enclosure types. Refer to the specifications section for recommended enclosure volumes. Using an enclosure that is too small or too large can negatively impact sound quality and subwoofer lifespan.

- **Sealed Enclosures:** Provide tight, accurate bass response.
- **Ported Enclosures:** Offer higher output and deeper bass extension.
- **Band-Pass Enclosures:** Can provide very high output within a narrow frequency range.

Wiring Connections

The SA-10 D2 features dual 2-Ohm voice coils. Proper wiring to your amplifier is essential to achieve the desired impedance and prevent damage to the amplifier or subwoofer.

- **Parallel Wiring (1 Ohm):** Connect both positive terminals together and both negative terminals together. This results in a 1-Ohm load.
- **Series Wiring (4 Ohms):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Connect the remaining positive and negative terminals to the amplifier. This results in a 4-Ohm load.

Always ensure your amplifier is stable at the chosen impedance. Consult your amplifier's manual for compatible impedance loads.

OPERATING INSTRUCTIONS

Once installed, follow these guidelines for optimal operation and to prevent damage.

Break-in Period

Allow a break-in period of approximately 20-30 hours of moderate use before operating the subwoofer at full power. This allows the suspension components to loosen and reach their optimal performance characteristics.

Amplifier Gain Setting

Set your amplifier's gain correctly to match the output voltage of your head unit. Incorrect gain settings can lead to clipping, which can severely damage the subwoofer. Start with the gain at minimum and slowly increase it until you hear distortion, then back off slightly.

Crossover Settings

Utilize a low-pass filter (LPF) to ensure the subwoofer only reproduces frequencies it is designed for. A typical LPF setting for this subwoofer is between 60 Hz and 80 Hz. A subsonic filter (HPF) set around 25-30 Hz is also recommended, especially for ported enclosures, to protect the subwoofer from over-excursion below its tuning frequency.

MAINTENANCE

The SA-10 D2 subwoofer requires minimal maintenance. Regular inspection can help ensure its longevity.

- **Cleaning:** Use a soft, dry cloth to wipe down the cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check the subwoofer for any signs of damage to the cone, surround, or dust cap. Ensure all mounting screws are secure.
- **Connections:** Verify that all wiring connections remain tight and free from corrosion.

TROUBLESHOOTING

If you experience issues with your subwoofer, consult the following table before seeking professional assistance.

Problem	Possible Cause	Solution
No Sound	Power issue to amplifier Incorrect wiring Blown fuse Damaged voice coil	Check amplifier power, ground, and remote turn-on connections. Verify wiring polarity and impedance. Inspect and replace amplifier or subwoofer fuse if necessary. Test subwoofer with a multimeter for continuity.

Problem	Possible Cause	Solution
Distorted Sound	Amplifier gain too high (clipping) Incorrect crossover settings Subwoofer over-excursion Loose connections	Reduce amplifier gain. Adjust LPF and subsonic filter settings. Lower volume or check enclosure tuning. Tighten all wiring connections.
Subwoofer Overheating	Underpowered amplifier (clipping) Overpowered amplifier Incorrect impedance match Prolonged high-volume use	Ensure amplifier provides sufficient clean power. Verify RMS power handling and amplifier output. Check wiring for correct impedance. Reduce listening volume.

SPECIFICATIONS

The following are key technical specifications for the Sundown Audio SA-10 D2 CLASSIC Subwoofer:

- **Model:** SA-10 D2 CLASSIC
- **Size:** 10 Inches
- **RMS Power Handling:** 750 Watts
- **Voice Coil Configuration:** Dual 2-Ohm
- **RE (DC Resistance):** 4.29 Ohms
- **FS (Resonance Frequency):** 35.4 Hz
- **Vas (Equivalent Air Volume):** 10.13 Liters
- **Qes (Electrical Q-factor):** 0.52
- **Qms (Mechanical Q-factor):** 5.41
- **Mounting Type:** Top Mount
- **Material:** Metal frame
- **Included Components:** 1 x Subwoofer
- **Item Weight:** Approximately 0.01 Ounces (*Note: This value from product data may be a placeholder; actual weight for a subwoofer of this type is significantly higher.*)
- **Package Dimensions:** 13.8 x 13.6 x 11.2 inches

WARRANTY AND SUPPORT

Sundown Audio products are manufactured to high standards. This product comes with a Limited Warranty. For specific warranty terms, conditions, and duration, please refer to the official Sundown Audio website or contact their customer support directly. Keep your proof of purchase for warranty claims.

For technical support, installation advice, or service inquiries, please visit the [Sundown Audio Store on Amazon](#) or their official website.

