

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Deaf Bonce](#) /

› [Deaf Bonce Car Audio Apocalypse 12" 2000W RMS Dual 2-Ohm VC Subwoofer SA302-D2 Instruction Manual](#)

Deaf Bonce SA302-D2

Deaf Bonce Apocalypse 12" Subwoofer

MODEL: SA302-D2

Instruction Manual

1. Introduction

Thank you for choosing the Deaf Bonce Car Audio Apocalypse 12" Subwoofer. This high-performance subwoofer is engineered to deliver powerful, deep bass, transforming your car audio experience. With a robust 2000W RMS power handling and a dual 2-ohm voice coil configuration, the SA302-D2 is designed for serious audiophiles and bass enthusiasts. This manual provides essential information for proper installation, operation, and maintenance to ensure the longevity and optimal performance of your subwoofer.

2. Safety Information

Please read and understand all safety instructions before installing and operating this product. Failure to do so may result in injury or damage to the product or vehicle.

- **Professional Installation Recommended:** Installation of car audio components can be complex and may require specialized tools and knowledge. If you are unsure about any part of the installation process, consult a professional car audio installer.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits and electrical shock.
- **Proper Wiring:** Ensure all wiring is correctly connected and insulated to prevent short circuits, overheating, and potential fire hazards. Use appropriate gauge wire for power and speaker connections.
- **Ventilation:** Ensure the subwoofer enclosure has adequate ventilation to prevent overheating, especially during prolonged high-power operation.
- **Volume Levels:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Operate the system at safe listening levels.
- **Secure Mounting:** Securely mount the subwoofer and its enclosure within the vehicle to prevent movement during driving, which could cause injury or damage.

3. Package Contents

Verify that all items are present and in good condition upon opening the package.

- (1) Deaf Bonce 12" Subwoofer SA302-D2



Figure 3.1: Retail packaging for the Deaf Bonce Apocalypse 12" Subwoofer. The box is black with green accents and features the product name and specifications.

4. Setup and Installation

Proper installation is crucial for the performance and longevity of your subwoofer. This section provides general guidelines.

4.1. Enclosure Requirements

The Deaf Bonce Apocalypse SA302-D2 subwoofer requires a properly designed and constructed enclosure for optimal sound reproduction. Consult with a car audio specialist or refer to recommended enclosure specifications for sealed or ported designs that match the subwoofer's parameters (F_s , Q_{ts} , V_{as}).

4.2. Wiring Connections

The SA302-D2 features dual 2-ohm voice coils. This configuration allows for various wiring options to achieve different final impedances (e.g., 1 ohm or 4 ohms) at the amplifier, depending on your amplifier's capabilities and desired power output. Always ensure correct polarity (+ to + and - to -) for all connections.

- **Parallel Wiring (1 Ohm):** Connect both positive terminals of the voice coils together and both negative terminals together. Connect the combined positive to the amplifier's positive output and the combined negative to the amplifier's negative output.
- **Series Wiring (4 Ohms):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Connect the remaining free positive terminal to the amplifier's positive output and the remaining free negative terminal to the amplifier's negative output.



Figure 4.1: Front view of the Deaf Bounce Apocalypse 12" Subwoofer, showcasing the cone and surround.



Figure 4.2: Rear view of the subwoofer, highlighting the dual voice coil terminals for wiring connections.



Figure 4.3: A pair of Deaf Bonce Apocalypse 12" Subwoofers, with one unit displaying its rear structure and motor assembly.

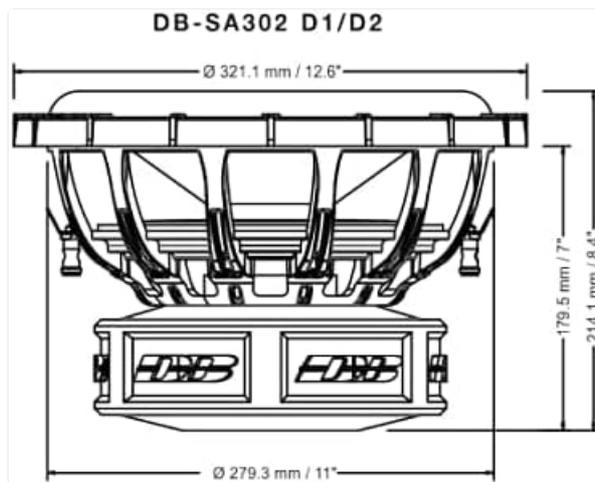


Figure 4.4: Technical drawing illustrating the dimensions of the DB-SA302 D1/D2 subwoofer, including diameter and mounting depth.

5. Operating Instructions

To achieve the best performance and ensure the longevity of your subwoofer, follow these operating guidelines:

5.1. Break-in Period

Allow for 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 up and reach their optimal compliance.

5.2. Amplifier Gain Setting

Properly setting your amplifier's gain is critical. The gain control is not a volume knob; it matches the amplifier's input sensitivity to the output voltage of your head unit. Setting the gain too high can lead to clipping, which is a major cause of subwoofer damage.

- Start with the amplifier gain at its minimum.
- Play a test tone (e.g., 50 Hz at 0 dB) or music with strong bass at about 75% of your head unit's maximum volume.
- Slowly increase the amplifier gain until you hear distortion, then back it off slightly until the sound is clean.

5.3. Crossover and Subsonic Filter Settings

Utilize your amplifier's or head unit's low-pass filter (LPF) to ensure the subwoofer only reproduces bass frequencies. A typical LPF setting for a 12" subwoofer might be between 60 Hz and 80 Hz. Additionally, use a subsonic filter (HPF) set slightly below your enclosure's tuning frequency to protect the subwoofer from playing frequencies too low for its design.

6. Maintenance

The Deaf Bonce Apocalypse subwoofer is designed for durability, but regular, simple maintenance can extend its lifespan and maintain performance.

- **Cleaning:** Periodically wipe down the subwoofer cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- **Inspect Connections:** Regularly check all wiring connections (power, ground, speaker) to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Enclosure Integrity:** Inspect the subwoofer enclosure for any cracks, loose panels, or air leaks, which can negatively impact sound quality and subwoofer performance.
- **Environmental Factors:** Protect the subwoofer from extreme temperatures, direct sunlight, and excessive moisture.

7. Troubleshooting

If you experience issues with your subwoofer, refer to the following common problems and solutions before seeking professional assistance.

Problem	Possible Cause	Solution
No Sound from Subwoofer	<ul style="list-style-type: none">• No power to amplifier• Loose or incorrect wiring• Amplifier in protect mode• Head unit settings	<ul style="list-style-type: none">• Check amplifier power, ground, and remote turn-on connections.• Verify all speaker wires are securely connected and correct polarity.• Check amplifier's protection light; consult amplifier manual.• Ensure subwoofer output is enabled and volume is up on head unit.

Problem	Possible Cause	Solution
Distorted Sound	<ul style="list-style-type: none"> • Amplifier gain set too high (clipping) • Incorrect crossover settings • Damaged subwoofer or amplifier • Poor enclosure design 	<ul style="list-style-type: none"> • Reduce amplifier gain until distortion disappears. • Adjust LPF and subsonic filter settings. • Inspect subwoofer cone/surround for damage. Test amplifier with another speaker. • Ensure enclosure is sealed and properly sized.
Subwoofer Overheating	<ul style="list-style-type: none"> • Amplifier clipping • Underpowered amplifier • Improper impedance match • Insufficient ventilation 	<ul style="list-style-type: none"> • Reduce amplifier gain. • Ensure amplifier provides sufficient RMS power for the subwoofer. • Verify wiring matches amplifier's stable impedance. • Ensure adequate airflow around the enclosure and amplifier.

8. Specifications

Detailed technical specifications for the Deaf Bonce Apocalypse 12" Subwoofer SA302-D2.

Specification	Value
Nominal Diameter	12 inches
Nominal Impedance	2+2 Ohm (Dual 2-Ohm Voice Coil)
RMS Power Handling	2000 Watts
MAX Power Handling	4000 Watts
Sensitivity (1w/1m)	86.70dB
Frequency Response	35.67Hz
Material	Aluminum
Product Dimensions (D x W x H)	12"D x 12"W x 1.4"H
Item Weight	40.3 pounds
Manufacturer	Alphard Group
UPC	795958012358

9. Warranty Information

This product comes with a Limited Warranty. For specific terms and conditions, please refer to the warranty card included with your purchase or contact the manufacturer directly. The warranty typically covers defects in materials and workmanship under normal use.

10. Customer Support

For technical assistance, warranty claims, or general inquiries, please contact Deaf Bonce customer support. You can find more information and contact details by visiting the official Deaf Bonce store on Amazon: [Deaf Bonce Store](#).