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B2 Audio B2-RAGEXL15-D2-V2

B2 Audio RAGEXL V2 Series 15" Subwoofer Instruction Manual

Model: B2-RAGEXL15-D2-V2



1. PRODUCT OVERVIEW

The B2 Audio RAGEXL V2 Series 15" Subwoofer (Model: B2-RAGEXL15-D2-V2) is designed for high-performance audio systems, offering significant power handling and deep bass reproduction. This manual provides essential information for the proper installation, operation, and maintenance of your subwoofer.



Image 1.1: Front view of the B2 Audio RAGEXL V2 Series 15" Subwoofer.

Key Features:

- **Massive Power Handling:** Delivers 3,500 watts RMS at 2 ohm for robust bass performance.
- **Advanced 3" DVC Platform:** Built on a durable 3" dual voice coil platform for enhanced reliability and sound clarity.
- **Custom-Tooled Basket:** Features a newly designed basket for the 15" model, ensuring optimal performance.
- **Extreme Excursion:** Offers peak-to-peak excursion of 2.76" (70 mm), enabling deep, powerful bass.
- **Uncompromising Build Quality:** Engineered with high-quality components for lasting performance.

2. SAFETY INFORMATION

Please read all safety instructions before installing or operating this product. Failure to follow these instructions may result in damage to the product, vehicle, or personal injury.

- Always disconnect the vehicle's battery negative terminal before beginning any electrical work.
- Ensure proper wiring and connections to prevent short circuits and electrical hazards.
- Avoid exposing the subwoofer to moisture or extreme temperatures.
- Operating audio systems at high volumes for extended periods can cause permanent hearing damage.
- Professional installation is highly recommended for optimal performance and safety.

3. WHAT'S IN THE BOX

Carefully unpack the contents and ensure all items are present and undamaged. If any items are missing or damaged, contact your retailer immediately.

- (1) B2 Audio RAGEXL 15" Subwoofer (Model: B2-RAGEXL15-D2-V2)



Image 3.1: The B2 Audio RAGEXL V2 Series 15" Subwoofer packaging.



Image 3.2: Included mounting gasket for the subwoofer.

4. SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your subwoofer. It is highly recommended that installation be performed by a qualified professional.

4.1 Enclosure Requirements:

This subwoofer requires a suitable enclosure for optimal performance. Consult B2 Audio's official resources or a professional installer for recommended enclosure types and volumes (sealed or ported) specific to the RAGEXL V2 15" model.

4.2 Wiring Connections:

The RAGEXL V2 15" Subwoofer features a Dual Voice Coil (DVC) 2-Ohm configuration. Ensure your amplifier is stable at the impedance presented by your wiring configuration. Common wiring options include:

- **Parallel Wiring:** Connect both 2-Ohm voice coils in parallel for a 1-Ohm total impedance.
- **Series Wiring:** Connect both 2-Ohm voice coils in series for a 4-Ohm total impedance.

Always use high-quality speaker wire of appropriate gauge for the power levels involved. Ensure all connections are secure and free from corrosion.



Image 4.1: Side view showing the subwoofer's basket and terminals.



Image 4.2: Bottom view displaying the robust magnet structure.

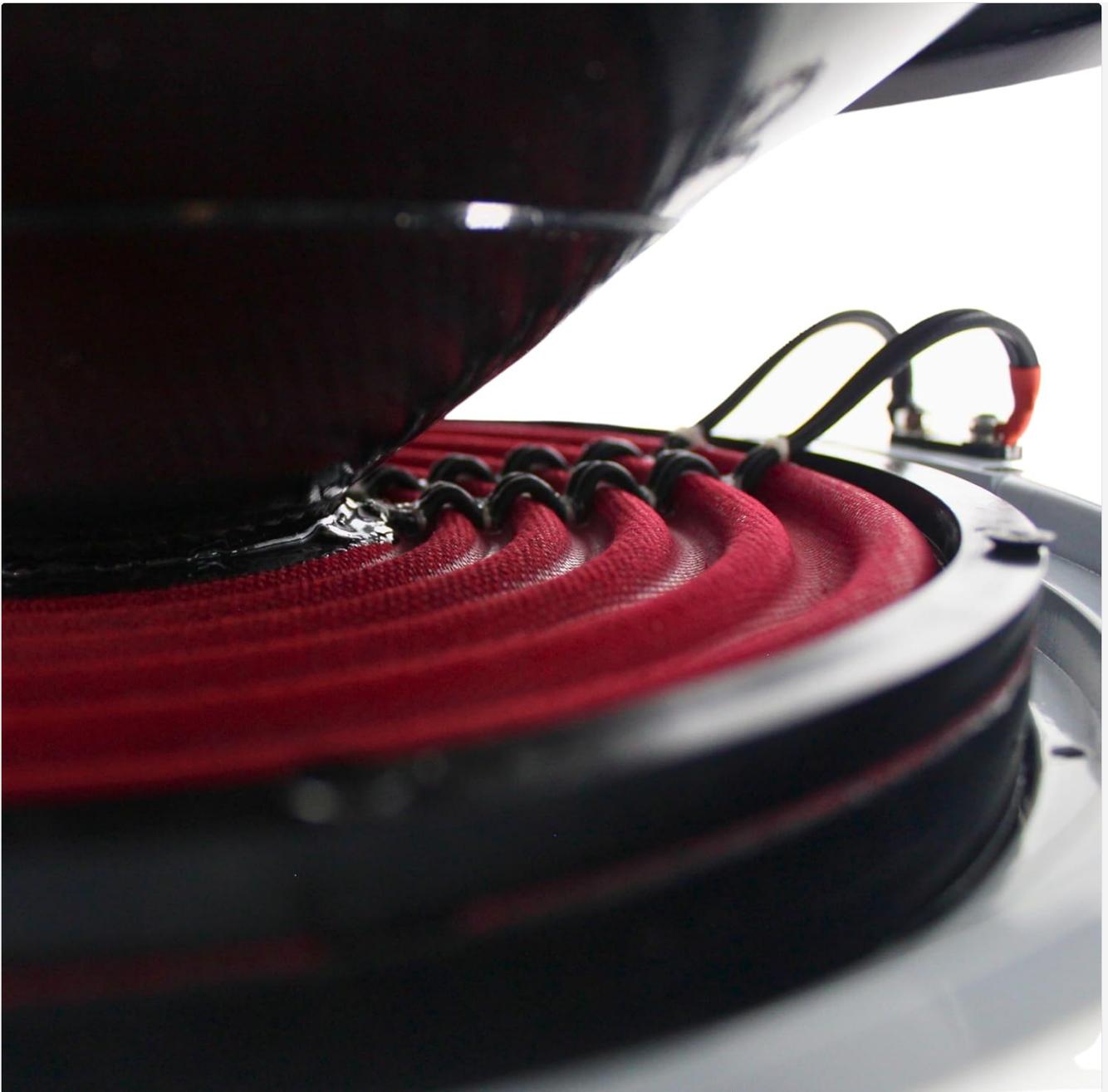


Image 4.3: Close-up of the subwoofer's spider and voice coil connections.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up and Break-in:

After installation, gradually introduce power to the subwoofer. It is recommended to allow a break-in period of several hours of moderate listening before operating at full power. This allows the suspension components to loosen and perform optimally.

5.2 Amplifier Settings:

Adjust your amplifier's gain, crossover, and bass boost settings carefully. Refer to your amplifier's manual for specific instructions. Incorrect settings can lead to distortion and potential damage to the subwoofer.

- **Gain:** Set the gain to match the output voltage of your head unit, avoiding clipping.
- **Low-Pass Filter (LPF):** Typically set between 60Hz and 100Hz for subwoofers.
- **Subsonic Filter:** Recommended to be set below the tuning frequency of your ported enclosure to protect the

subwoofer from over-excursion.

6. MAINTENANCE

To ensure the longevity and performance of your B2 Audio RAGEXL V2 Subwoofer, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the subwoofer cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically inspect the speaker terminals and wiring for secure connections and signs of corrosion or damage.
- **Environment:** Keep the subwoofer in a dry, stable environment, away from direct sunlight and extreme temperature fluctuations.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Sound	Loose wiring, amplifier off, incorrect input settings.	Check all connections, ensure amplifier is powered on, verify head unit and amplifier settings.
Distorted Sound	Gain set too high, incorrect crossover settings, damaged voice coil.	Reduce amplifier gain, adjust crossover settings, inspect subwoofer for physical damage.
Subwoofer Overheating	Under-powered amplifier, improper impedance match, prolonged high-power usage.	Ensure amplifier matches subwoofer RMS rating, verify wiring impedance, allow cooling periods.

If the problem persists after attempting these solutions, contact B2 Audio customer support or a qualified service technician.

8. SPECIFICATIONS

Detailed technical specifications for the B2 Audio RAGEXL V2 Series 15" Subwoofer (Model: B2-RAGEXL15-D2-V2).

Feature	Detail
Model Name	B2-RAGEXL15-D2-V2
Speaker Type	Subwoofer
Speaker Size	15 Inches
Woofer Diameter	15 Inches
Power Handling (RMS)	3500 Watts
Peak Power Handling	10000 Watts
Voice Coil Configuration	Dual Voice Coil (DVC) 2-Ohm

Feature	Detail
Voice Coil Size	3 Inches
Frequency Response	10 Hz (Lower limit, actual range depends on enclosure)
Excursion (Peak-to-Peak)	2.76" (70 mm)
Product Dimensions (D x W x H)	8.63"D x 10.83"W x 10.83"H
Item Weight	66.8 pounds
Mounting Type	Surface
Connectivity Technology	Wire
Manufacturer	B2 Audio
UPC	850066670118
Warranty Type	Limited
Specific Uses For Product	SPL competitions, in-car audio systems

Note: Product dimensions provided in the source data (8.63"D x 10.83"W x 10.83"H) appear to be for packaging or a different component, not the 15" subwoofer itself. Please refer to official B2 Audio documentation for precise physical dimensions.

9. WARRANTY AND SUPPORT

9.1 Warranty Information:

This B2 Audio RAGEXL V2 Series Subwoofer 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 included with your product or visit the official B2 Audio website.

9.2 Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please contact B2 Audio USA customer support. You can often find contact information on the official B2 Audio website or through your authorized retailer.

B2 Audio USA

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