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B2 Audio B2-RIOT10-D2

B2 Audio Riot 10-inch Subwoofer Instruction Manual

Model: B2-RIOT10-D2 | Brand: B2 Audio

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1. INTRODUCTION

Thank you for choosing the B2 Audio Riot 10-inch Subwoofer (Model B2-RIOT10-D2). This high-performance component subwoofer is engineered to deliver powerful and precise bass for your car audio system. With 750W RMS power handling and a dual 2-Ohm, 3-inch voice coil, it offers robust and efficient sound reproduction. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your subwoofer.

2. SAFETY INFORMATION

Please read all instructions carefully before installing and operating your B2 Audio Riot subwoofer. Failure to follow these guidelines may result in damage to the product, your vehicle, or personal injury. Keep this manual for future reference.

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure proper wiring and connections to prevent short circuits and electrical hazards.
- Mount the subwoofer securely to prevent movement during vehicle operation.
- Avoid exposing the subwoofer to excessive moisture or extreme temperatures.
- Do not operate the subwoofer beyond its rated power handling to prevent damage.
- Seek professional installation if you are unsure about any part of the process.

3. WHAT'S IN THE BOX

Upon unpacking your B2 Audio Riot 10-inch Subwoofer, please ensure all items are present and in good condition:

- (1) B2 Audio Riot 10" D2 Subwoofer
- Instruction Manual

- B2 Audio Sticker (as shown in unboxing video)

4. SPECIFICATIONS

Feature	Specification
Brand	B2 Audio
Model Number	B2-RIOT10-D2
Speaker Type	Subwoofer
Subwoofer Diameter	10 Inches
RMS Power Handling	750 Watts
Max Power Handling	1500 Watts
Impedance	Dual 2 Ohms
Voice Coil Diameter	3 Inches
Frequency Response	34.9 Hz (Fs)
Sensitivity	84.9 dB
Magnet Weight	240 Ounces (Entire Assembly)
Displacement Volume	5.2 L / 0.19 Cu.Ft
Overall Diameter	10.83" / 275 mm
Mounting Diameter	9.25" / 235 mm
Overall Depth	7" / 178 mm
Connectivity Technology	Wired
Color	Black
Item Weight	27.1 Pounds

5. SETUP & INSTALLATION

Proper installation is crucial for the performance and longevity of your B2 Audio Riot subwoofer. Follow these general guidelines:

5.1 Enclosure Recommendations

The B2 Audio Riot subwoofer is designed for optimal performance in specific enclosure types:

- **Sealed Enclosure:** Recommended volume of 0.6 cubic feet.
- **Ported Compact Enclosure:** Recommended volume of 1.23 cubic feet, tuned to 38 Hz.
- **Larger Ported Enclosure:** Recommended volume of 1.76 cubic feet.

These recommendations ensure the subwoofer operates within its optimal frequency range and power handling capabilities.

5.2 Wiring

The B2 Audio Riot 10-inch subwoofer features a dual 2-Ohm voice coil. Ensure your amplifier is stable at the impedance created by your wiring configuration. Common wiring configurations include:

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

Always use appropriate gauge speaker wire (8 GA recommended for push terminals) and ensure all connections are secure and free from shorts.

5.3 Mounting

Securely mount the subwoofer within its enclosure using appropriate fasteners. Ensure there is adequate clearance for the subwoofer's excursion and proper ventilation for the motor structure.



Figure 1: Front view of the B2 Audio Riot 10-inch Subwoofer, showcasing its robust cone and surround.



Figure 2: Angled view of the B2 Audio Riot 10-inch Subwoofer, highlighting the white basket and black cone.

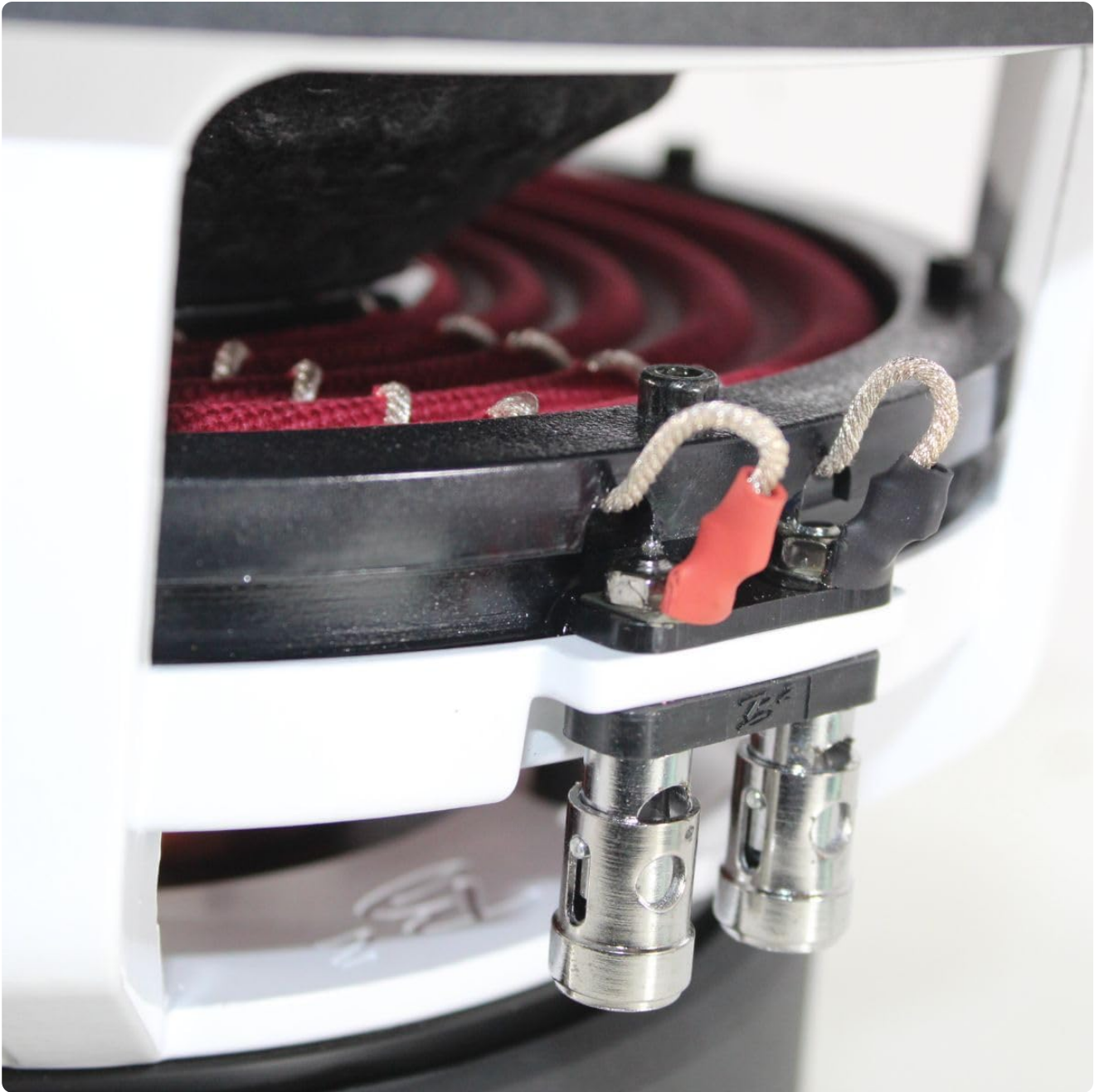


Figure 3: Close-up of the push terminals on the B2 Audio Riot 10-inch Subwoofer, showing the wiring connections.



Figure 4: Side view of the B2 Audio Riot 10-inch Subwoofer, revealing the robust basket and motor structure.



Figure 5: Back view of the B2 Audio Riot 10-inch Subwoofer, showing the magnet and cooling vents.

6. OPERATION

The B2 Audio Riot subwoofer is designed for high efficiency and powerful bass output. To achieve the best performance:

- **Power Matching:** While rated at 750W RMS, the subwoofer's efficient design means it can produce significant output with less power. However, it is built to handle up to 1500W Max.
- **Gain Setting:** Properly set your amplifier's gain to match the output voltage of your head unit. Avoid setting the gain too high, which can lead to clipping and damage to the subwoofer.
- **Break-in Period:** Allow a break-in period of several hours of moderate listening before pushing the subwoofer to its limits. This allows the suspension components to loosen and perform optimally.
- **Frequency Range:** The subwoofer operates effectively within a frequency range of 10 Hz to 500 Hz. Use a low-pass filter on your amplifier or head unit to send only the appropriate low frequencies to the subwoofer.

Video 1: An unboxing and test video of the B2 Audio RIOT12 Subwoofer by Big Jeff Audio, demonstrating its features and

performance. This video provides visual details of the subwoofer's construction and shows it in operation during a flex test.

7. MAINTENANCE

To keep your B2 Audio Riot subwoofer in excellent condition and ensure long-lasting performance:

- **Regular Cleaning:** Gently wipe the cone and surround with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- **Inspect Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Check Mounting:** Verify that the subwoofer remains securely mounted within its enclosure. Tighten any loose screws if necessary.
- **Avoid Over-Excursion:** While the subwoofer is designed for high excursion, prolonged operation at extreme levels can reduce its lifespan. Listen for signs of distortion and reduce volume if necessary.

8. TROUBLESHOOTING

If you experience issues with your B2 Audio Riot subwoofer, refer to the following common problems and solutions:

- **No Sound:**
 - Check all power and ground connections to the amplifier and subwoofer.
 - Verify the amplifier is powered on and not in protection mode.
 - Ensure the audio source is functioning correctly and signal cables are connected.
- **Distorted Sound:**
 - Reduce the amplifier gain or head unit volume.
 - Check for proper low-pass filter settings.
 - Inspect speaker wires for shorts or damage.
 - Ensure the subwoofer is not over-excursioning.
- **Overheating:**
 - Ensure adequate ventilation around the amplifier and subwoofer.
 - Verify the impedance load matches the amplifier's capabilities.
 - Reduce prolonged high-volume operation.

If the problem persists, consult a professional car audio technician or contact B2 Audio support.

9. WARRANTY & SUPPORT

9.1 Warranty Information

The B2 Audio Riot 10-inch Subwoofer is covered by a manufacturer's warranty. For specific details regarding warranty coverage, duration, and claims procedures, please refer to the official B2 Audio website or contact their customer service directly. Keep your proof of purchase for warranty validation.

9.2 Customer Support

For any questions, technical assistance, or support regarding your B2 Audio Riot subwoofer, please visit the official

B2 Audio Store or contact their customer support team:

- **B2 Audio Store:** Visit the B2 Audio Store on Amazon
- **Manufacturer:** B2 Audio