

B2 Audio B2-RAGE6P

B2 Audio Rage 6.5-inch Mid-Range Speaker Pair (Model B2-RAGE6P) - Instruction Manual

Brand: B2 Audio | Model: B2-RAGE6P

1. INTRODUCTION

Thank you for choosing the B2 Audio Rage 6.5-inch Mid-Range Speaker Pair. These speakers are engineered to deliver clear and powerful mid-range audio performance for your car audio system. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your speakers.

2. WHAT'S IN THE BOX

Your B2 Audio Rage 6.5-inch Mid-Range Speaker Pair package includes the following components:

- 2 x B2 Audio Rage 6.5-inch Mid-Range Speakers



Image: Two B2 Audio Rage 6.5-inch mid-range speakers are shown in their black retail packaging, indicating they are sold as a pair.

3. SETUP

Proper installation is crucial for achieving the best sound quality and ensuring the safety of your audio system. It is recommended to have a professional install these speakers if you are unfamiliar with car audio wiring.

3.1 Mounting the Speakers

- Ensure the mounting location has sufficient depth for the speaker (Product Dimensions: 2.71"D x 6.5"W x 6.5"H).
- Use appropriate screws and mounting hardware to secure the speakers firmly.
- Avoid overtightening screws to prevent damage to the speaker frame.



Image: A side profile of the B2 Audio Rage speaker highlights its compact depth, suitable for various installations.

3.2 Wiring Connections

- Connect the speaker terminals to your amplifier using appropriate gauge speaker wire.
- Ensure correct polarity: positive (+) to positive and negative (-) to negative. Incorrect polarity can lead to poor sound quality.
- The speakers have a nominal impedance of 4 Ohms. Ensure your amplifier is stable at this impedance.
- The continuous power output is 120W RMS per speaker. Match this with your amplifier's output to prevent damage.

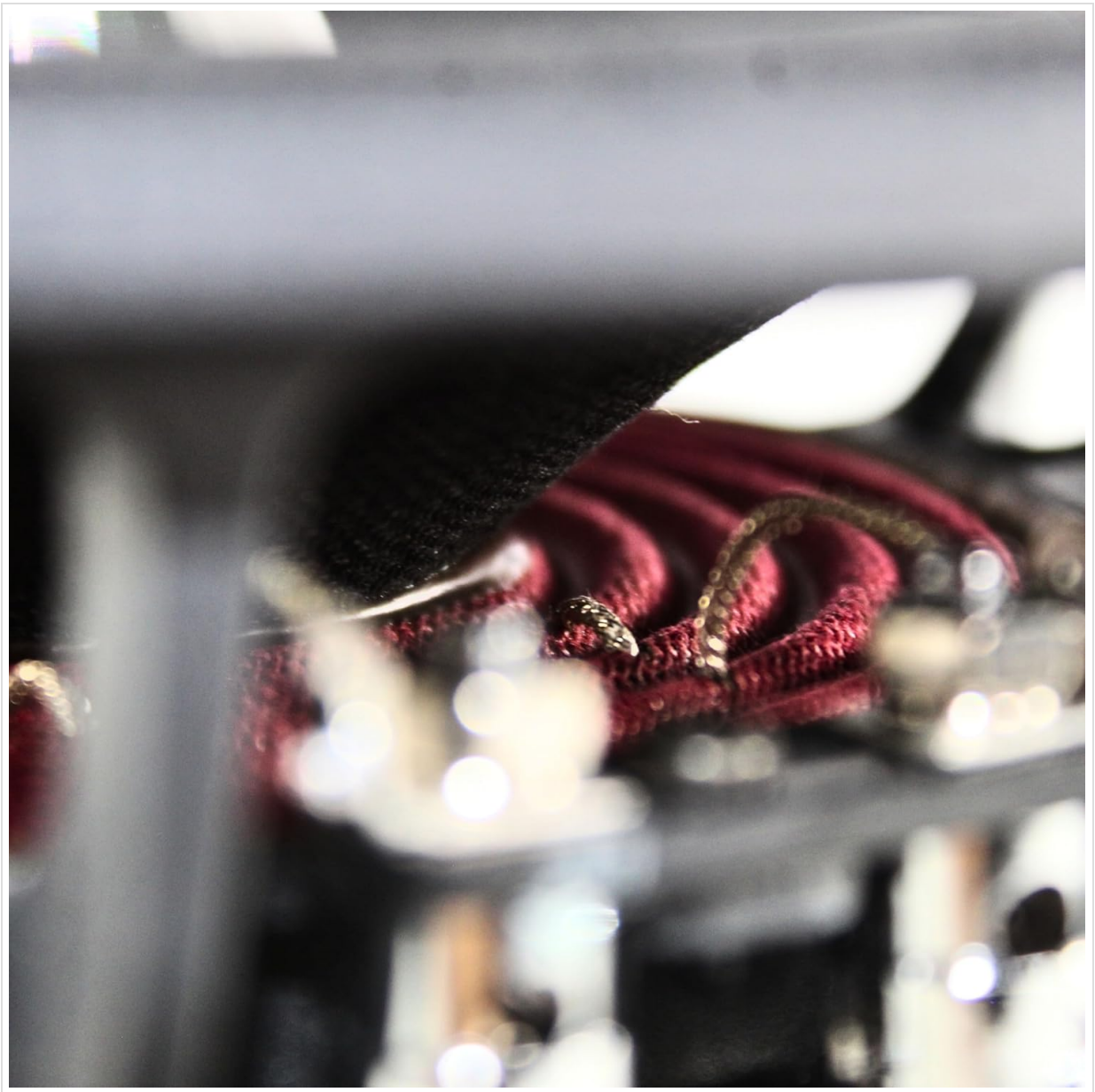


Image: Detailed view of the speaker's push-style terminals, showing the positive and negative connections for wiring.

3.3 Amplifier Matching

Select an amplifier that can provide 120W RMS per channel at 4 Ohms for optimal performance. Overpowering or underpowering the speakers can lead to damage or poor sound quality.

3.4 Video: Unboxing & Testing B2 Audio RAGE6P

Video: This video provides an unboxing and initial testing demonstration of the B2 Audio RAGE6P speakers, offering visual guidance on the product and its sound characteristics.

4. OPERATING

Once properly installed, your B2 Audio Rage speakers are ready for operation. Follow these guidelines for the best listening experience:

- **Audio Source:** Connect your amplifier to a high-quality audio source (e.g., car head unit, digital audio player).
- **Gain Settings:** Adjust the gain settings on your amplifier carefully. Start with the gain at its lowest setting and slowly increase it until you achieve the desired volume without any audible distortion.
- **Crossover Settings:** For optimal performance and speaker protection, use a high-pass filter (HPF) on your amplifier or head unit. A recommended starting point for the HPF is around 100-120 Hz.

- **Frequency Response:** These speakers are designed to operate within a frequency range of 90 - 6000 Hz, providing clear mid-range audio.
- **Efficiency:** With an efficiency of 95.7 dB, these speakers are capable of producing significant volume with moderate power input.

5. MAINTENANCE

To maintain the performance and appearance of your B2 Audio Rage speakers, follow these simple maintenance tips:

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker cones and surrounds. Avoid using harsh chemicals or abrasive materials.
- **Environmental Exposure:** These speakers are NOT waterproof. Avoid direct exposure to water, excessive moisture, or prolonged direct sunlight, as this can damage the speaker components.
- **Inspection:** Periodically check the speaker connections and mounting hardware to ensure they are secure.

6. TROUBLESHOOTING

If you encounter issues with your B2 Audio Rage speakers, refer to the following troubleshooting guide:

- **No Sound:**
 - Check all wiring connections for proper polarity and secure contact.
 - Ensure the amplifier is powered on and functioning correctly.
 - Verify the audio source is playing and connected properly.
- **Distorted Sound:**
 - Reduce the amplifier's gain setting.
 - Check the audio source for distortion.
 - Ensure the speakers are not being overdriven beyond their RMS power handling.
- **Low Volume:**
 - Increase the amplifier's gain setting gradually.
 - Check the volume level on your audio source.
 - Verify speaker impedance matches amplifier output.

7. SPECIFICATIONS

Detailed technical specifications for the B2 Audio Rage 6.5-inch Mid-Range Speaker Pair:

Model Name	B2-RAGE6P
Speaker Type	Woofer (Mid-Range)
Speaker Size	6.5 Inches (165 mm)
Continuous Power Output (RMS)	120W
Peak Power Handling	250W
Impedance	4 Ohms

Voice Coil Size	1.5 inches (38.6 mm)
Voice Coil Material	CCAR
Magnet Weight	30 Oz
Frequency Range	90 - 6000 Hz
Efficiency	95.7 dB
Resonant Frequency	94 Hz
Product Dimensions	2.71"D x 6.5"W x 6.5"H
Item Weight	5.7 Pounds
Is Waterproof	FALSE



Image: The rear of the speaker displays key specifications and the B2 Audio branding, including the model number RAGE6P.

8. WARRANTY AND SUPPORT

The B2 Audio Rage 6.5-inch Mid-Range Speaker Pair comes with a Limited Warranty. For specific warranty terms, conditions, or technical support, please refer to the documentation included with your purchase or contact B2 Audio customer service directly.