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B2 Audio B2-RAGEXL12-D1-V2

Instruction Manual

B2 Audio RAGEXL Series 12" 3500 Watt RMS Dual 1-Ohm Voice Coil Subwoofer

Model: B2-RAGEXL12-D1-V2

PRODUCT OVERVIEW

The B2 Audio RAGEXL Series 12" Subwoofer (Model: B2-RAGEXL12-D1-V2) is engineered to deliver powerful and clear bass performance. This subwoofer features dual 1-ohm voice coils, providing flexibility for various audio system configurations. Designed for durability and high output, it is suitable for car audio applications requiring significant bass impact.



Image: Front angled view of the B2 Audio RAGEXL 12-inch Subwoofer, showcasing its robust design and B2 Audio branding on the cone.

Key Features:

- **Apocalyptic Power:** Capable of handling 3500 Watts RMS for intense bass output.
- **Sonic Fury:** Precision-engineered dual 1-ohm voice coils for thunderous lows and clarity.
- **Unleash the Beast:** Dual 1-ohm voice coils offer flexible wiring options for customized audio setups.
- **Built to Conquer:** Constructed with durable materials for resilience in demanding environments.
- **Elevate Your Experience:** Designed to provide an immersive and powerful audio experience.

SETUP AND INSTALLATION

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

Enclosure Requirements:

This subwoofer requires a sealed or ported enclosure designed to match its specifications. Consult a car audio specialist or refer to detailed enclosure design guides for optimal performance. Ensure the enclosure provides

adequate internal volume and structural integrity to handle the subwoofer's power.

Wiring Connections:

The RAGEXL Series 12" Subwoofer features dual 1-ohm voice coils. This allows for various wiring configurations to achieve different impedance loads (e.g., 0.5 ohm, 2 ohm, or 4 ohm) depending on your amplifier's capabilities. Always ensure your amplifier is stable at the chosen impedance. Use high-quality, appropriately gauged speaker wire for all connections.

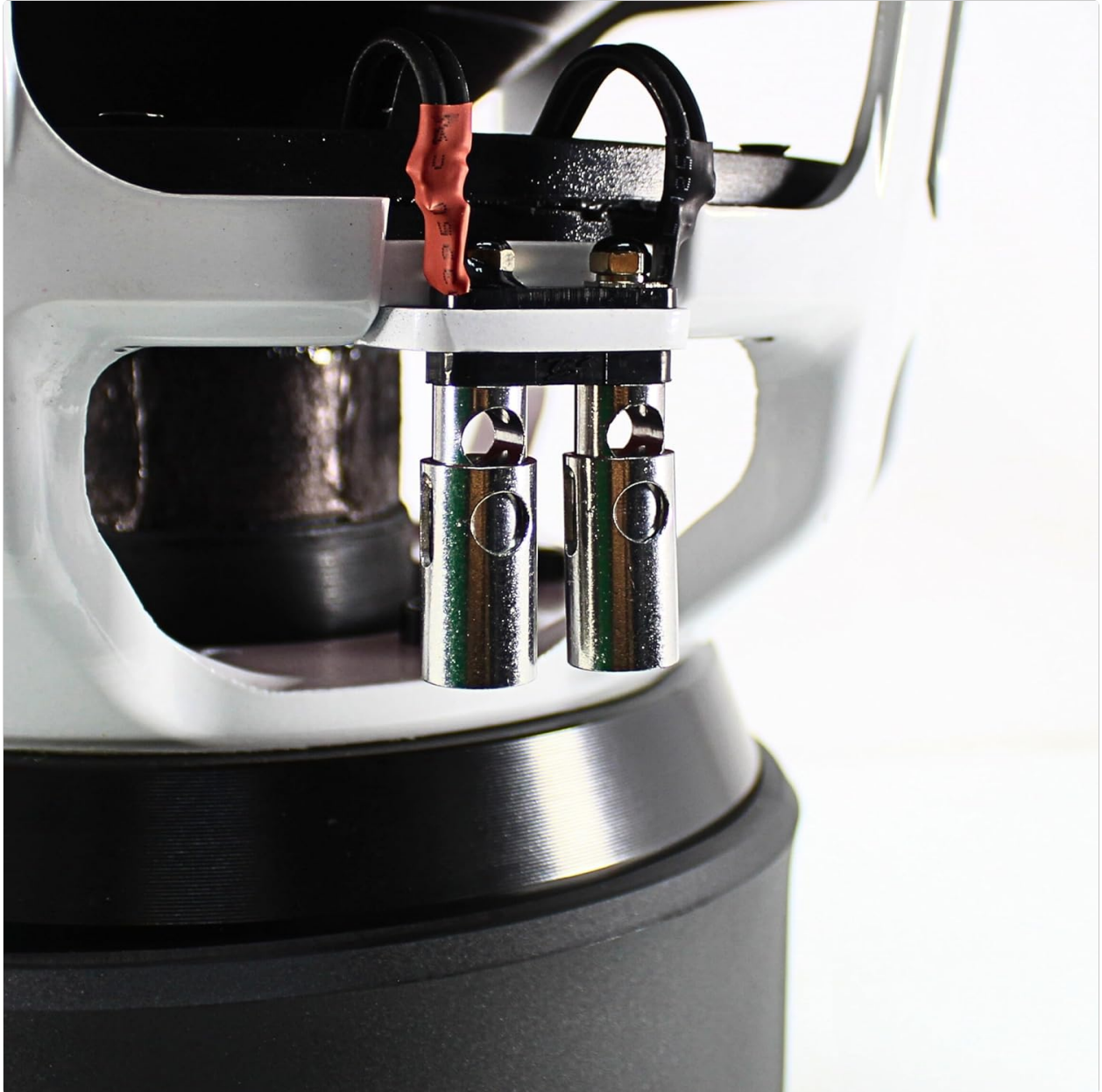


Image: Close-up view of the subwoofer's robust push-terminal connections, designed for secure and reliable wiring.

1. **Power Off:** Disconnect power from your amplifier and vehicle's battery before making any connections.
2. **Identify Terminals:** Locate the positive (+) and negative (-) terminals for each voice coil on the subwoofer.
3. **Wire Configuration:**
 - **Parallel Wiring (0.5 Ohm):** Connect both positive terminals together and both negative terminals together. Then connect the combined positive to the amplifier's positive output and combined negative to the amplifier's negative output. (Only if amplifier is 0.5 Ohm stable)
 - **Series Wiring (2 Ohm):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Then connect the remaining free positive terminal to the amplifier's positive

output and the remaining free negative terminal to the amplifier's negative output.

4. **Secure Connections:** Ensure all wire connections are tight and free from shorts.
5. **Mounting:** Securely mount the subwoofer within its enclosure using appropriate hardware.

OPERATING INSTRUCTIONS

Once installed, follow these guidelines for safe and effective operation of your B2 Audio RAGEXL subwoofer.

Break-in Period:

Allow a break-in period of approximately 20-30 hours of moderate 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.

Amplifier Gain Setting:

Set your amplifier's gain control carefully. Do not use the gain control as a volume knob. It should be set to match the output voltage of your head unit. Improper gain settings can lead to clipping, which can damage the subwoofer.

Crossover and Subsonic Filter:

- **Low-Pass Filter (LPF):** Set the LPF on your amplifier or head unit to filter out frequencies above the subwoofer's intended range, typically between 60Hz and 80Hz.
- **Subsonic Filter (HPF):** Utilize a subsonic filter (also known as a high-pass filter for subwoofers) to protect the subwoofer from playing frequencies below its resonant frequency, which can cause over-excursion and damage. A common setting is 20Hz to 25Hz.

Volume Control:

Always listen responsibly. Excessive volume levels can cause hearing damage and may damage your audio equipment. If you notice distortion, reduce the volume immediately.

MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your subwoofer.

- **Cleaning:** Keep the subwoofer cone and surround free from dust and debris. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically inspect the speaker terminals and wiring for any signs of corrosion, loose connections, or fraying.
- **Enclosure Check:** Ensure the subwoofer enclosure remains sealed and free from air leaks, which can negatively impact performance.
- **Temperature Control:** Avoid exposing the subwoofer to extreme temperatures or direct sunlight for prolonged periods.

TROUBLESHOOTING

If you encounter issues with your subwoofer, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|-------------------------|---|---|
| No Sound from Subwoofer | <ul style="list-style-type: none">Loose or incorrect wiringAmplifier not powered on or in protect modeHead unit settings incorrect (e.g., subwoofer output off)Blown fuse in amplifier or power wire | <ul style="list-style-type: none">Check all wiring connections for security and correct polarity.Verify amplifier power, ground, and remote turn-on connections. Check amplifier status lights.Ensure subwoofer output is enabled and volume is up on head unit.Inspect and replace any blown fuses. |
| Distorted Sound | <ul style="list-style-type: none">Amplifier gain set too high (clipping)Subwoofer over-excursion (playing too low frequencies without subsonic filter)Damaged voice coil or suspension | <ul style="list-style-type: none">Reduce amplifier gain.Ensure subsonic filter is properly set.Reduce volume. If distortion persists at low volumes, the subwoofer may be damaged and require professional inspection. |
| Subwoofer Overheating | <ul style="list-style-type: none">Underpowered amplifier (clipping)Improper impedance matchExcessive continuous high volume | <ul style="list-style-type: none">Ensure amplifier is adequately powered for the subwoofer.Verify correct impedance wiring for your amplifier.Reduce listening volume. Allow subwoofer to cool down. |

If problems persist after attempting these solutions, contact B2 Audio customer support or a certified car audio technician.

SPECIFICATIONS

| Attribute | Detail |
|------------------------------|--|
| Model Name | B2-RAGEXL12-D1-V2 |
| Speaker Type | Subwoofer |
| Speaker Size | 12 Inches |
| Woofer Diameter | 12 Inches |
| Speaker Maximum Output Power | 10000 Watts (Peak) |
| RMS Power Handling | 3500 Watts (RMS) - <i>Derived from feature bullets</i> |
| Voice Coil Configuration | Dual 1-Ohm |
| Frequency Response | 10 Hz (Lower limit specified) |
| Product Dimensions | 8.63"D x 10.83"W x 10.83"H |
| Item Weight | 66.8 pounds |
| Mounting Type | Surface |

| Attribute | Detail |
|-------------------------|----------------|
| Connectivity Technology | Wire (Coaxial) |
| Manufacturer | B2 Audio |
| UPC | 850063478540 |

Note: RMS power handling is derived from product feature bullets as it is not explicitly listed in the specifications table, but is a critical performance metric.

WHAT'S IN THE BOX

The package for the B2 Audio RAGEXL Series 12" Subwoofer includes:

- (1) B2 Audio RAGE XL 12" Subwoofer (Model: B2-RAGEXL12-D1-V2)

Note: The product description states "RAGE XL 10" Subwoofer" in the "Included Components" specification, but the product title and model number clearly indicate a 12" subwoofer. This manual refers to the 12" model as per the main product details.

WARRANTY AND SUPPORT

Warranty Information:

The B2 Audio RAGEXL Series 12" Subwoofer comes with an Extended Warranty Type. For specific details regarding warranty coverage, duration, and claims, please refer to the documentation provided with your purchase or contact B2 Audio directly.

Protection Plans:

Additional protection plans may be available for purchase to extend coverage beyond the standard warranty. These plans typically offer extended repair or replacement services.

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly plan covering eligible purchases)

For details on purchasing these plans, please check with your retailer or the Amazon product page.

Customer Support:

For technical assistance, troubleshooting, or warranty inquiries, please visit the official B2 Audio Store or contact their customer support channels. You can find more information by visiting the [B2 Audio Store on Amazon](#).