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› [Deaf Bonce](#) /

› [Deaf Bonce Apocalypse ATOM 2.5K PRO Monoblock Amplifier User Manual](#)

## Deaf Bonce AP-ATOM-2.5K-PRO

# Deaf Bonce Apocalypse ATOM 2.5K PRO Monoblock Amplifier User Manual

Model: AP-ATOM-2.5K-PRO

Brand: Deaf Bonce

## 1. INTRODUCTION

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Thank you for choosing the Deaf Bonce Apocalypse ATOM 2.5K PRO Monoblock Amplifier. This Class D amplifier is designed to provide powerful and precise audio performance for your car audio system. This manual provides essential information for proper installation, operation, and maintenance of your amplifier.

### Package Contents:

- 1 x Apocalypse ATOM 2.5K PRO Power Amplifier
- 1 x Apocalypse ATOM Volt Meter & Bass Knob



Image 1.1: The Apocalypse ATOM 2.5K PRO amplifier shown with its included remote bass knob and connecting cable.

## 2. SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these guidelines may result in damage to the amplifier, vehicle, or personal injury.

- **Professional Installation Recommended:** Installation of car audio equipment can be complex. If you are unsure about any part of the installation process, seek assistance from a qualified professional.
- **Power Disconnection:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work.
- **Proper Wiring:** Ensure all wiring is correctly sized and fused. Incorrect wiring can lead to overheating, fire, or damage to components.
- **Ventilation:** Mount the amplifier in a location that allows for adequate airflow to prevent overheating.
- **Secure Mounting:** Securely mount the amplifier to prevent it from becoming a projectile in the event of a sudden stop or collision.
- **Avoid Moisture:** Do not expose the amplifier to moisture or water.

### 3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your amplifier.

#### 3.1 Mounting Location

Choose a mounting location that is:

- Dry and free from moisture.
- Well-ventilated to allow for heat dissipation.
- Secure and protected from physical damage.
- Away from direct sunlight or heat sources.

Ensure there is sufficient space around the amplifier for air circulation, especially around the heatsink fins.



Image 3.1: Angled view of the amplifier, highlighting its compact design and heatsink fins for heat dissipation.

#### 3.2 Wiring Connections

Refer to the diagrams below for proper wiring. Use high-quality cables of appropriate gauge.

### Power Input (Bottom Panel):

- **+12V:** Connect to the positive terminal of the vehicle's battery via a fuse or circuit breaker (not included). Use 0 Ga wire.
- **REM (Remote):** Connect to the remote turn-on output of your head unit or a switched 12V source.
- **GND (Ground):** Connect to a clean, unpainted metal surface of the vehicle's chassis. Use 0 Ga wire. Ensure a solid, low-resistance connection.



Image 3.2: The power input terminals (+12V, REM, GND) located on the bottom panel of the amplifier.

### Audio Input and Output (Top Panel):

- **INPUT (RCA):** Connect to the RCA pre-out of your head unit.
- **OUTPUT (RCA):** For daisy-chaining to another amplifier (if applicable).
- **SPEAKER (+/-):** Connect your subwoofer(s) to these terminals. The amplifier supports a minimum permissible load of 1 Ohm. Use 4 Ga wire for speaker output.
- **REMOTE:** Connect the included bass knob here using the provided cable.

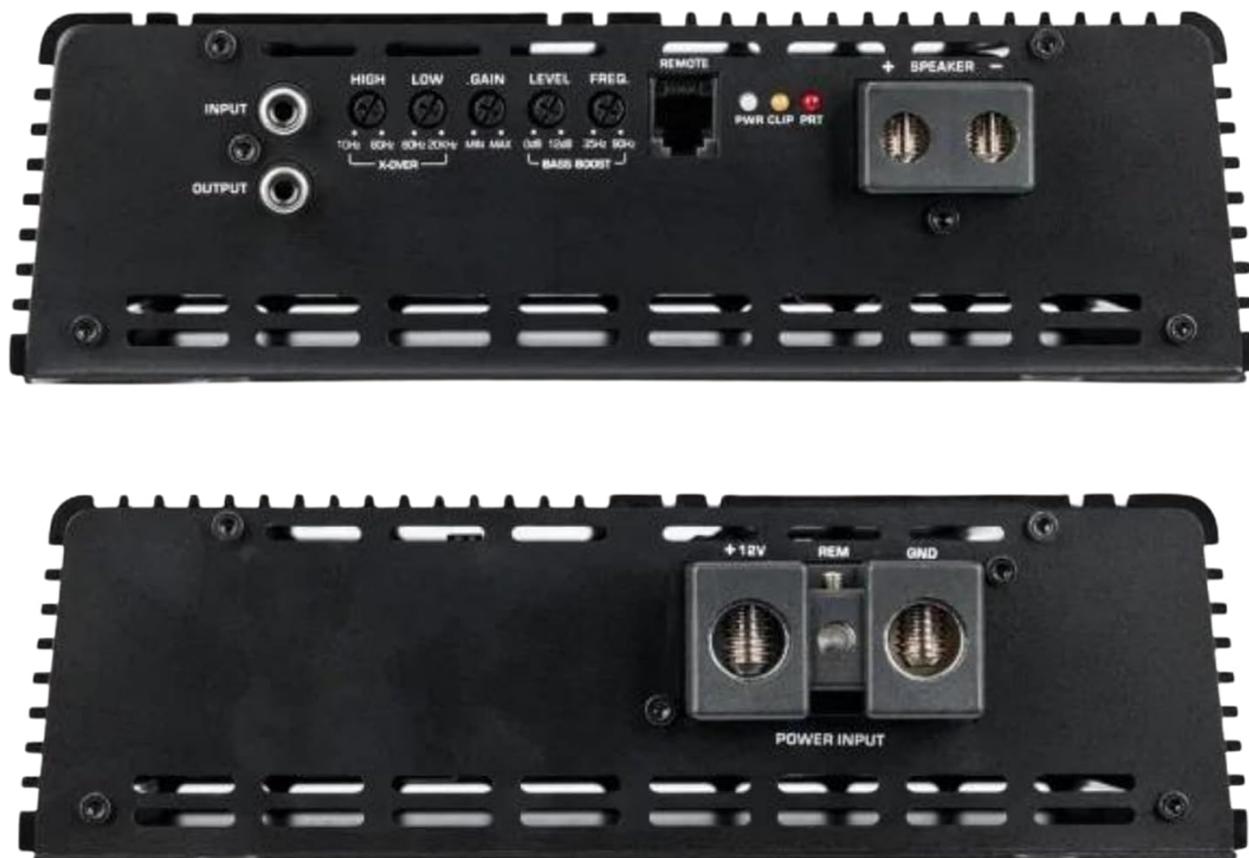


Image 3.3: The top panel of the amplifier, displaying the RCA inputs/outputs, speaker terminals, and control adjustments.



Image 3.4: An angled view showing both the power input and audio/speaker output sections of the amplifier.

## 4. OPERATING THE AMPLIFIER

Once installed, you can adjust the amplifier settings to optimize your sound system's performance.

### 4.1 Control Adjustments (Top Panel)

- **GAIN/LEVEL:** Adjusts the input sensitivity of the amplifier to match the output voltage of your head unit. Start with the gain at minimum and slowly increase until desired volume is achieved without distortion.
- **LOW PASS FILTER (LPF):** (80 - 20000 Hz) Controls the upper frequency limit that the amplifier will reproduce. Set this to match the recommended crossover point for your subwoofer.
- **SUBSONIC FILTER:** (10 - 80 Hz) Filters out extremely low frequencies that are below the audible range or the resonant frequency of your subwoofer enclosure. This protects the subwoofer from over-excursion.
- **BASS FREQ (Bass Frequency Adjustment):** (35 - 90 Hz) Allows for fine-tuning of the bass response at a specific frequency. Use sparingly to avoid distortion.
- **Crossover:** The amplifier features a 12 dB/Oct crossover slope.

### 4.2 Remote Bass Knob

The included remote bass knob allows for convenient adjustment of the subwoofer level from the driver's seat.



Image 4.1: The remote bass knob with integrated volt meter, allowing for convenient bass level adjustment and system monitoring.

### 4.3 Indicator Lights

- **POWER:** Illuminates when the amplifier is powered on and operating correctly.
- **CLIP:** Illuminates when the amplifier is clipping (distorting the audio signal). Reduce the gain or input level if this light is consistently on.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your amplifier.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the heatsink fins are free from dust and debris. Blocked fins can lead to overheating.
- **Connection Check:** Periodically inspect all power, ground, and speaker connections to ensure they are secure and free from corrosion.

## 6. TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common problems and solutions:

| Problem                    | Possible Cause  | Solution   |
|----------------------------|---|--|
| No Power / Power LED Off   | Blown fuse; Loose power/ground connection; No remote turn-on signal.  | Check and replace fuse; Verify all power and ground connections are secure; Check remote wire connection and head unit output.                       |
| No Sound / Distorted Sound | Incorrect gain setting; Loose RCA/speaker connections; Speaker impedance too low; Amplifier in protection mode. | Adjust gain properly; Check all audio and speaker connections; Verify speaker impedance is 1 Ohm or higher; Check for overheating or short circuits. |
| Amplifier Overheats        | Insufficient ventilation; Speaker impedance too low; Gain set too high.   | Ensure proper airflow around amplifier; Verify speaker impedance; Reduce gain setting.   |
| Bass Knob Not Working      | Cable not connected properly; Damaged cable/knob.   | Check connection of the remote cable to both amplifier and knob; Inspect cable for damage.   |

## 7. SPECIFICATIONS

Detailed technical specifications for the Apocalypse ATOM 2.5K PRO amplifier:

| Feature                             | Specification |
|-------------------------------------|---------------|
| Model                               | ATOM 2.5K PRO |
| Class                               | D             |
| Number of Channels                  | 1             |
| Frequency Response                  | 10 - 250 Hz   |
| 1 Ohm RMS Power (14.4 V)            | 2500 W        |
| 1 Ohm RMS Power (12 V)              | 1720 W        |
| 2 Ohm RMS Power (14.4 V)            | 1510 W        |
| 4 Ohm RMS Power (14.4 V)            | 830 W         |
| Minimum Permissible Load on Channel | 1 Ohm         |
| Low Pass Filter                     | 80 - 20000 Hz |
| Crossover Slope                     | 12 dB/Oct     |
| Subsonic Filter                     | 10 - 80 Hz    |
| Bass Frequency Adjustment           | 35 - 90 Hz    |
| Input Terminal Gauge                | 0 Ga          |

| Feature               | Specification        |
|-----------------------|----------------------|
| Output Terminal Gauge | 4 Ga                 |
| Working Voltage       | 9 - 15 V             |
| Signal-to-Noise Ratio | 171 dB               |
| Size (WxLxH)          | 7 x 8.6 x 2.6 inches |
| Package Dimensions    | 12 x 10 x 4 inches   |
| Weight                | 5.95 Pounds          |
| Manufacturer          | Deaf Bonce           |
| Mounting Type         | Surface Mount        |

## 8. WARRANTY AND SUPPORT

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Deaf Bonce products are manufactured to high-quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Deaf Bonce website.

For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact your authorized Deaf Bonce dealer or the manufacturer's customer support directly. Keep your purchase receipt as proof of purchase for warranty claims.