

Rockford Fosgate T1000-4ad

Rockford Fosgate Power T1000-4ad 1,000-Watt Class-AD Full-Range 4-Channel Amplifier User Manual

Model: T1000-4ad

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Rockford Fosgate Power T1000-4ad 1,000-Watt Class-AD Full-Range 4-Channel Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper use and optimal performance.

KEY FEATURES

- **Constant Power:** Delivers consistent power across various impedance loads.
- **Class-AD Design:** Combines the sound quality of Class-A with the efficiency of Class-D amplification.
- **High Fidelity Full-Range Output:** Provides 1000 Watts of power in a full-range configuration.
- **Flexible Power Output:** 250 Watts x 4 @ 4-Ohm, 250 Watts x 4 @ 2-Ohm, 250 Watts x 4 @ 1-Ohm, or 500 Watts x 2 @ 4-Ohm Bridged, or 500 Watts x 2 @ 2-Ohm Bridged.
- **Differential RCA Inputs:** Reduces noise and allows for direct integration with OEM or aftermarket systems.
- **RC Pass-Thru:** Enables easy daisy-chaining of multiple amplifiers.
- **Variable Punch EQ:** Offers +18dB boost @ 45Hz and/or +14dB @ 12.5KHz for sound customization.
- **24dB/Octave Butterworth Crossover:** Provides precise frequency filtering.
- **CLEAN Technology:** Calibrated Level Eliminates Audible Noise, simplifying gain setup and preventing distortion.
- **Dynamic Thermal Management (DTM):** Patented cooling design to manage output and power supply temperatures.
- **Maximum Efficiency Heat Sink Application (MEHSA):** Enhances heat dissipation for improved performance and reliability.

SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier. It is recommended that installation be performed by a certified professional. Ensure the vehicle's battery is disconnected before beginning any wiring.

Component Overview



Figure 1: Top view of the Rockford Fosgate Power T1000-4ad amplifier, showcasing its sleek black design and Rockford Fosgate branding.

The top view of the amplifier highlights its robust chassis and the prominent Rockford Fosgate logo. This side typically faces upwards after installation for aesthetic appeal and access to certain indicators.



Figure 2: Rear view of the Rockford Fosgate Power T1000-4ad amplifier, displaying all input/output connections and control knobs.

This image provides a detailed look at the amplifier's rear panel, where all wiring connections and adjustment controls are located. This includes power terminals, speaker outputs, RCA inputs, and various tuning knobs.

Wiring Connections

Connect the power, ground, and remote turn-on wires to the designated terminals. Ensure all connections are secure and properly insulated to prevent short circuits.

- **Power (B+):** Connect to the positive terminal of the vehicle's battery via an appropriate gauge power cable and an inline fuse.

- **Ground (GND):** Connect to a clean, unpainted metal surface on the vehicle chassis, ensuring a solid electrical connection.
- **Remote (REM):** Connect to the remote turn-on output of your head unit. If using high-level inputs, the amplifier features an auto-on function that detects DC offset.
- **Speaker Outputs:** Connect your speakers to the "SPEAKERS" terminals. Refer to the wiring diagrams for 4-channel, 2-channel bridged, or 1-Ohm configurations.
- **RCA Inputs:** Connect your head unit's RCA outputs to the "INPUT" RCA jacks. The differential inputs can also accept high-level speaker signals directly.

Gain Adjustment with CLEAN Technology

The Rockford Fosgate Power T1000-4ad features CLEAN (Calibrated Level Eliminates Audible Noise) technology to simplify gain adjustment and prevent distortion. This process involves using a test tone to identify the clipping points of both your source unit and the amplifier.

1. **Prepare Test Tone:** Use the provided Punch Setup Disc (or digital equivalent) containing test tones. For full-range channels, use a 1000 Hz, 0 dB test tone. For subwoofer channels, use a 40 Hz, 0 dB test tone.
2. **Set Head Unit Volume:** Play the appropriate test tone. Gradually increase the head unit's volume until the "INPUT CLIP" LED on the amplifier turns red. Then, slightly reduce the volume until the LED turns off or blue (if applicable), indicating the maximum clean output of your head unit. This is your maximum safe listening volume.
3. **Adjust Amplifier Gain:** With the head unit volume set to its maximum clean level, slowly increase the "INPUT LEVEL" (gain) control on the amplifier for the corresponding channels (Front, Rear, Sub). Watch the "OUTPUT CLIP" LED. Increase the gain until the LED turns blue, indicating the amplifier is producing its maximum clean output. If the LED turns red, you are clipping the output; reduce the gain slightly until it turns blue.
4. **Fine-Tune (Optional):** For slightly more output, you can use a -5 dB or -10 dB test tone and repeat the amplifier gain adjustment. This allows for a small amount of headroom for dynamic music without clipping.

Your browser does not support the video tag.

Video 1: Detailed guide on setting up a Rockford Fosgate Punch series amplifier using the CLEAN circuit, demonstrating how to identify clipping points and adjust gains for optimal, distortion-free audio output.

Crossover and Punch EQ Settings

- **Crossover (X-OVER):** Use the LP-AP-HP switch to select the desired crossover mode (Low Pass, All Pass, High Pass). Adjust the frequency knob to set the cutoff point for your speakers.
- **Punch EQ:** Use the Punch EQ knobs to boost bass (45Hz) and/or treble (12.5KHz) frequencies as desired. Use sparingly to avoid distortion.

OPERATION

Once properly installed and configured, your Rockford Fosgate Power T1000-4ad amplifier will provide powerful and clear audio. The amplifier will automatically turn on when it detects an audio signal (if using high-level inputs) or a remote turn-on signal from your head unit.

Monitor the status LEDs on the amplifier:

- **Power LED:** Illuminates blue when the amplifier is powered on and operating normally.
- **Protect LED:** Illuminates red if the amplifier detects a fault (e.g., short circuit, overheating, low voltage). The amplifier will enter protection mode to prevent damage.
- **Thermal LED:** Illuminates if the amplifier is overheating. The amplifier will reduce output or shut down until it cools.

If the Protect or Thermal LED illuminates, turn off your audio system and investigate the cause before resuming operation.

MAINTENANCE

Your Rockford Fosgate amplifier is designed for reliable performance with minimal maintenance. However, periodic checks can help ensure its longevity:

- **Cleanliness:** Keep the amplifier free from dust and debris. Use a soft, dry cloth to wipe down the chassis. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the amplifier's heatsink fins are not obstructed to allow for proper airflow and cooling.
- **Connections:** Periodically check all power, ground, remote, and speaker connections to ensure they are tight and free from corrosion.
- **Wiring Integrity:** Inspect wiring for any signs of wear, fraying, or damage. Replace damaged wires immediately.

TROUBLESHOOTING

If you experience issues with your amplifier, consult the following troubleshooting guide before contacting support:

Problem	Possible Cause	Solution
No audio output	No power, no remote turn-on, incorrect input/output connections, amplifier in protect mode.	Check power/ground/remote connections. Verify head unit is on. Check fuses. Inspect speaker wires for shorts. Reset amplifier by cycling power.
Distorted sound	Gain set too high (clipping), incorrect crossover settings, damaged speakers.	Re-adjust gains using CLEAN technology. Verify crossover settings. Inspect speakers for damage.
Amplifier overheats (Thermal LED on)	Insufficient ventilation, impedance too low, prolonged high output.	Ensure proper airflow around the amplifier. Check speaker impedance. Reduce listening volume.
Amplifier shuts off	Overheating, low voltage, short circuit, internal fault.	Check for overheating. Verify vehicle's electrical system. Inspect wiring for shorts. If problem persists, seek professional service.

SPECIFICATIONS

Feature	Specification
Output Power	1000 Watts (RMS)
Maximum Output Power	1160 Watts
Number of Channels	4
Amplifier Class	Class-AD
Voltage	12 Volts (DC)
Minimum Supply Voltage	9 Volts (DC)
Maximum Supply Voltage	16 Volts (DC)
Item Dimensions (L x W x H)	14.9 x 8.1 x 2.4 inches
Item Weight	13.5 pounds
Material	Copper, Iron, Silicon

Feature	Specification
Mounting Type	Freestanding
Specification Met	FCC

WARRANTY AND SUPPORT

The Rockford Fosgate Power T1000-4ad amplifier comes with a **2-year parts and labor warranty**. For warranty claims or technical support, please contact Rockford Fosgate customer service or visit their official website. Ensure you have your proof of purchase and product model number available.

For additional resources and product information, visit the [Rockford Fosgate Store on Amazon](#).

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question