

# Owner's Instructions

1. **BATTERY INSTALLATION:** The RAT is designed to operate from either a standard 9-volt battery or from any external 9-volt power supply. If battery operation is desired, a high-quality alkaline type battery should be used. To install the battery: 1) remove the thumbscrew on the bottom of the unit which holds the battery door closed. 2) snap or slide the battery into the battery holder located on the reverse side of the battery door. 3) match up the positive and negative terminals to their corresponding mate and secure the terminal. 4) Replace the battery door (Please note that on some RATs, the battery will press against the circuit board. This should not harm the device but, please make sure that there is nothing else in the battery compartment except for one standard size 9-volt battery.) 5) Line up the screw holes and tighten down thumb screw making sure not to cross thread the screw.

**IMPORTANT NOTE:** Plugging the cable from your instrument into the INPUT jack turns on the power from the battery. Be sure to unplug the INPUT cable when you are finished using the RAT; this will prevent unnecessary drain on the battery.

2. **CABLE INPUTS:** The input plug must be a standard 1/4" 2-conductor type cable end, such as the BF2P or RF2P phone plugs (standard equipment on Pro Co cables). 3-conductor (stereo) plugs WILL NOT work in the RAT.

3. **POWER SUPPLIES:** The jack marked "+9V" disconnects the battery when a plug is inserted in it, thus permitting the RAT to be powered from a line-operated power supply. This power supply must be a negative-ground DC power source. It should be well filtered to prevent excessive hum and should not exceed +120VDC. The current requirements are extremely low (about 5 mA is more than enough). A 9-volt 50 mA calculator-type power supply found at many electronic stores should be adequate. For the best possible performance and reliability use a Pro Co Sound RPS1 Battery Eliminator.

4. **OPERATION:** Obtaining a desirable sound is very simple and virtually self-explanatory. Install either a 9-volt battery or appropriate 9-volt power supply. Connect your instrument in the INPUT jack. Connect amplifier to the OUTPUT on the RAT.

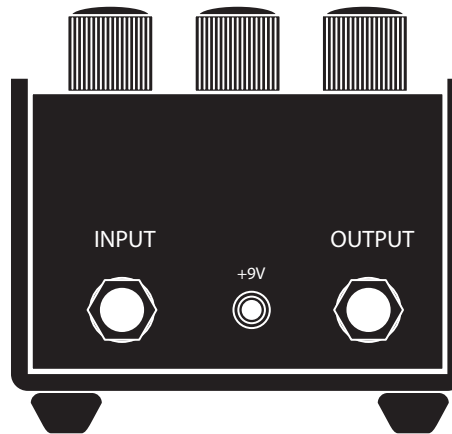
Set the controls on the RAT as shown in Fig. 1. Press the footswitch to turn on the effect. This setting produces a "bluesy", soft-clipped distortion sound much like that of a small tube amp. "Fine tune" the control settings to suit your instrument's own tone and character.

Fig. 2 is a very "biting" lead sound with lots of harmonic emphasis; use the treble pickup on your guitar and vary the DISTORTION control a bit to "home in" on the overtones for a subtle fixed-"wah" effect.

The last example setting (Fig. 3) is the bone-crunching heavy-metal sound yielding incredible power and smooth, effortless sustain. These settings are only the beginning, of course, and you will soon learn to "tweak" the control settings to obtain your own sound from the RAT. If you find a setting that you wish to share with us, log onto [www.procound.com](http://www.procound.com) and post it on our RAT message board for others to view.

# Turbo RAT

## Back View



**INPUT:**  
Connect your instrument using a 1/4" phone jack here

**9-VOLT PLUG:**  
Connect your RPS-1 or other external power supply her

**OUTPUT:**  
Connect your amplifier using a 1/4" phone jack here

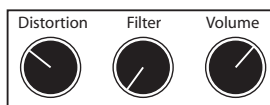
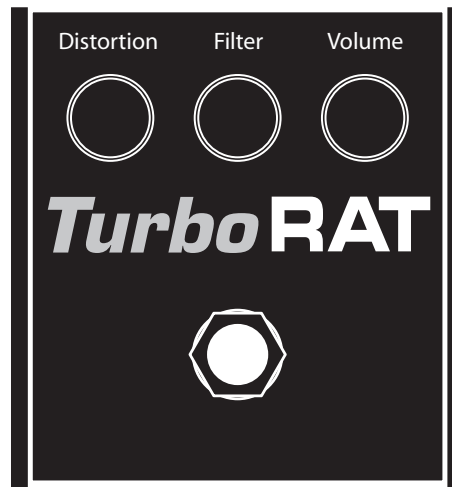
**DISTORTION:**  
Controls the amount of gain in the op-amp circuit. Turn it clockwise to increase the amount of overdrive.

**FILTER:**  
This is the tone control. Turn this high cut filter clockwise to decrease the amount of treble.

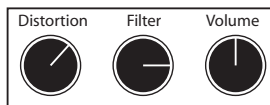
**VOLUME:**  
This controls the total volume output of the RAT. Turn this clockwise to increase the total volume.

**FOOT SWITCH:**  
This control turns the RAT on or off. When off the RAT does not reduce signal quality.

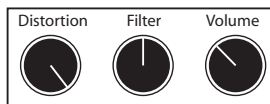
## Top View



**Fig. 1**  
Blues Type Tone



**Fig. 2**  
Lead Type Tone



**Fig. 3**  
Heavy Type Tone