

## Analog Delay User's manual

### DESCRIPTION.

Classic Analog Delay with a maximum delay time of 500ms.

### USE.

As this effect doesn't produce saturation/distortion by itself we have a total compatibility with any kind of tube or solid-state amplifier.

The 'TIME' knob controls the delay time. In the minimum position we have a delay time of 20ms. In the maximum position we have a delay time of 500ms. This is a very high figure for an analog delay and has been achieved using two BBD chips. The clock-noise cancellation circuit is independent for each BBD.

The 'REPEAT' knob controls the amount of repetitions. In the minimum position we have just one repetition. From that point we increase the amount of repetitions. Every repetition sounds louder than the next repetition, so the perception of the amount of repetitions depends on the position of the 'REPEAT' knob and the global volume of the amplifier that we are using.

The 'MIX' knob controls the relative volumes of the original signal and the delayed signal. In the minimum position the delayed signal is completely attenuated. In the maximum position we have the same volume on both signals.

### SPECIFICATIONS.

Output impedance: < 500 Ohm.

Input impedance: 500 KOhm.

Current consumption: 20 mA.

External dimensions (mm): 110 x 121 x 60.

Net weight (without battery): 355 gr.

### WARRANTY.

All ThunderTomate products are covered by a warranty period of two years including parts and labour.

### USING EXTERNAL POWER SUPPLIES.

Please, check in advance the compatibility between your pedal's input polarity and the polarity of whatever external power supply that you are going to use. Using the wrong polarity is the cause of innumerable breakdowns.

All ThunderTomate pedals use the BOSS PSA style polarity: central pin NEGATIVE (-).

Central pin is 2.1 mm.

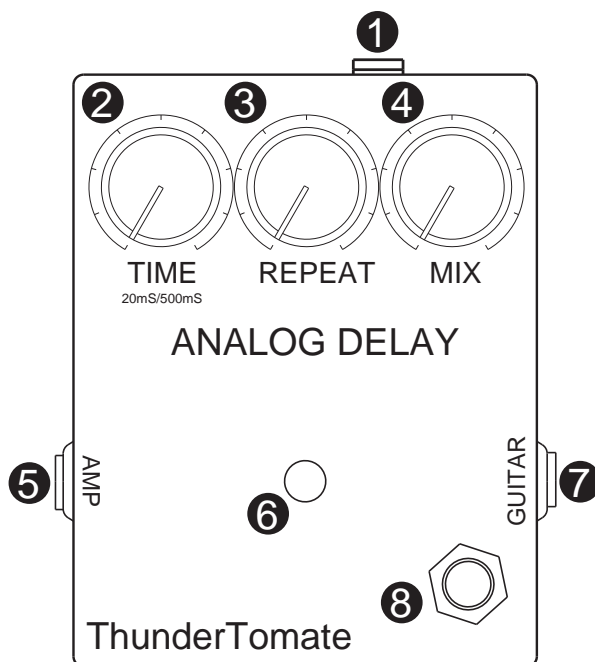
We recommend the use of good-quality regulated power supplies with isolated outputs.

Your pedal's warranty does not cover any damage derived from using inappropriate external power supplies.

### CLEANING.

Use a soft, dry cloth or one that has been slightly dampened with water.

Never use benzene, thinners, alcohol or solvents of any kind to avoid the possibility of discoloration.



**1 DC POWER SUPPLY INPUT**  
9 volts DC  
BOSS PSA style  
Central pin NEGATIVE.

**2 'TIME' KNOB**  
Controls the delay time from 20 to 500ms.

**3 'REPEAT' KNOB**  
Controls the amount of repetitions.

**4 'MIX' KNOB**  
Controls the relative volumes of the original signal and the delayed signal.

**5 OUTPUT JACK**

**6 LED INDICATOR**  
Lights when the effect is ON.  
If it goes dim, or no longer lights while the effect is ON, the battery should be replaced as soon as possible.

**7 INPUT JACK**  
Don't forget to remove the input's jack when the pedal is not in use to avoid premature battery discharging.

**8 TRUE BY PASS SWITCH**

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