



## Empress Effects Tremolo User Manual

### Power

The Empress Tremolo requires a 9V power supply with a 2.1mm **negative tip** plug. The BOSS PSA-120 wall wart works well. The Empress Tremolo could be permanently damaged if a **positive tip** plug is used.

### Quickstart

Plug your guitar into the jack on the right side. Plug your amplifier into the jack on the left side. Set both the switches on the back to their middle positions. Set depth to full, rate to one third, rhythm to first position (all the way counterclockwise), and gain to one half. There's your standard tremolo.

### Orientation

**Depth:** The amount of tremolo effect applied to signal.

**Rate/Ratio:** When in Normal or Two Speed Mode, this is the rate or speed of the tremolo effect. When in Tap Tempo Mode, this sets the ratio of foot taps to tremolo pulses. This allows you make the tremolo do eighth notes or sixteenth notes of what you tap.

**Rhythm:** The Empress Tremolo has 8 different rhythms. All the way counterclockwise is your normal tremolo sound. Play around with it to get the idea.

**Gain:** The Empress Tremolo can deliver up to 6dB of gain. Set to a little less than one half for unity.

**Tap Stompswitch (left):** Used to set the rate of the tremolo effect when in Tap Tempo Mode. When in Two Speed Mode it's used to switch between speeds.

**Bypass Stompswitch (right):** Used to bypass tremolo effect. When the LED is shining, the tremolo effect is applied to the signal. When off, the tremolo is being bypassed (true bypass).

**Waveform Switch:** Three positions. The middle position is an asymmetrical waveform modeled after a sweet sounding vintage tube amp tremolo. The right position is a square waveform for your dance-type music. The left position is a triangle waveform that gives a "pulsey" sound.

Mode Switch: Three positions.

Normal Mode: The middle position. In normal mode, the rate of the tremolo is controlled by the Rate knob.

Tap Tempo Mode: The left position. In tap tempo mode, the rate of the tremolo is set by tapping on the Tap Stompswitch twice. The ratio of foot taps to tremolo pulses is set by the Rate/Ratio knob. The Empress Tremolo averages the last 4 intervals tapped, so to get the most accurate tap tempo, tap the Tap Stompswitch 5 times.

Two Speed Mode: The right position. In Two Speed Mode, there are two separate tremolo rates that can be chosen from. Both rates are settable. The rate is set by the Rate knob. Switching between tremolo rates is achieved by hitting the Tap Stompswitch.

Thank you for purchasing an Empress Tremolo. If you have any questions about how to use it, or comments about it, feel free to drop us a line at [steve@empresseffects.com](mailto:steve@empresseffects.com) or 1-888-676-1853.

### **FCC Statement**

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### **Industry Canada (Digital Apparatus)**

Reference: Industry Canada (IC) Interference-Causing Equipment Standard (ICES-003), Issue 3. This Class [B] digital apparatus complies with Canadian ICES-003.