

# Tremolo

DLS *♫* Effects

## Model TRI

Finally a pure Analog, stereo Tap Tremolo with tons of tremolo styles and functionality any musician could ever ask for! Just some of the features include:

- Two different sounding analog optical components utilize a first ever *Warmth* pot to dial in vintage tube sounding tremolo to more aggressive tremolo, or any blend in between!
- A first ever *Shape* pot transforms the tremolo wave shape and duty cycle for a multitude of flavors like vintage rhythmic tremolo, slicing tremolo, playing backwards sound, and much more.
- The speed of the Tremolo can be controlled using the *Rate Pot*, or *Tap Tempo*, or via an External Expression pedal. *Tap Tempo* can be multiplied by 1, 2, 3 or 4 beats per tap, plus is stored in memory.
- Two independent in/out channels can be used in Mono or *Stereo*, including a *Ping Pong* feature that pans from amp to amp. Channel-A in/out utilizes True Bypass switching, while Channel-B in/out utilizes a buffered output.
- This Tremolo has a small footprint, measuring only 4.3" wide by 4.7" deep
- The unit runs from 9vdc (any polarity) and is charge pumped near 15vdc to achieve *ultimate headroom* and keep the instrument sounding warm, clear, and free from distortion.

**Rate: Normal Mode-**  
regular Rate pot

**Tap Mode-**Multiply by  
1,2,3 or 4 beats per Tap

**Normal-Tap**  
mode Switch

**Shape:** adjusts the  
on/off duty cycle and  
shape of the tremolo

**Tap Switch:** controls  
rate in Tap Mode.

(Hold down for 3  
seconds to enable  
*Ping Pong* between  
OUTA and OUTB)



**Depth:** controls  
intensity Tremolo

**VolumeB, VolumeA:**  
adjust output levels (cut  
to boost)

**Warmth:** Biases 2 different  
analog optical devices for  
vintage tube sound,  
aggressive tremolo, or any  
blend & flavor in between!

**On/Off:**  
True Bypass Channel A,  
Buffered Output Channel B

**InA, OUTA,**  
True Bypass

**InB, OUTB**  
Buffered Output

**Expression input:** Use an  
external expression pedal to  
control the Rate

**9VDC:** operates from 9vdc source,  
polarity does not matter!



**Warmth Pot:** A first ever *Warmth* pot allows the user to dial in Vintage tube sounding tremolo to modern edgy tremolo, or any blend of the two sounds. This is achieved by biasing 2 different sounding *analog optical-couplers* via the Warmth pot.

**Shape Pot:** The *Shape* pot adjusts the off/on duty cycle and shape of the tremolo. The musician can achieve numerous tremolo flavors from vintage sounds to playing backwards reminiscent of old Jimi sounds.

**Tap/Normal Switch:** Used to select Tap Tempo or Normal Rate pot modes.

**Tap Tempo:** Push and release the Tap Tempo switch at least 2 times to set the tempo of the tremolos. When in Tap Tempo mode, the Rate pot is used to multiply the tempo at 1:1, 1:2, 1:3 or 1:4 beats per tap.

**Tap Tempo Memory:** Tap Tempo is stored in memory until the tempo is changed (even when power is removed)

**Rate Pot:** Used as a traditional rate control during *Normal* mode. Used as tempo multiplier in *Tap Tempo* mode.

**Inputs/Outputs:** Independent channels for Mono in/out, Stereo in/out, or Mono in/stereo out.

**Volume A & Volume B:** Independently controls volumes for OUTA (channel A) and OUTB (channel B)

**Ping Pong/Sync Mode:** On the fly switching between Ping Pong or Sync modes, Ping Pong mode (back and forth between stereo outputs) or Sync mode (Both outputs in sync). To change back and forth, simply hold down the Tap Tempo switch for 3 seconds.

**On/Off:** Channel A is True Bypass, while Channel B is buffered output.

**Expression Pedal:** Control the Tremolo rate with an external Expression pedal (while in Normal Mode).

**Internal Waveform:** An internal wave form jumper can be set for triangle (warmest), sign, or a custom waveform.

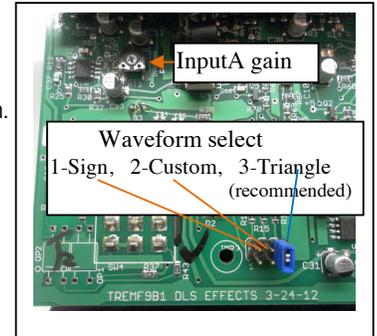
**Tremolo beat:** The "on" instrument sound is used when the beat is set (verses absence of sound)

**9vdc input jack:** 9vdc any polarity (charge pumped to 15vdc for high head room and optimal op amp sound). A USA transformer is included, although most external 9vdc pedal board supplies can be used.

**Small Size:** only 4.3" Wide x 4.7" Deep.

**Enclosure:** Heavy steel enclose with resilient powder coating for heavy road worthiness.

**Color:** Plum



<p>Normal- rate pot, Depth=3/4, Shape=50% off/on duty, Warmth=Vintage soft Tube</p> <p>Vintage Tube Tremolo</p>	<p>Normal rate pot, Depth=Deep tremolo, Shape=60% off/on duty, Warmth= Aggressive, OUTA - OUTB Ping Pong</p> <p>Deep tremolo, 40% off/on duty, Ping-Pong OutA to OutB</p>	<p>Normal- rate pot, Depth=50%, Shape=75% off/on duty, Warmth=Blend Tube &amp;</p> <p>Middle of road tremolo</p>
<p>Tap-1:1, Depth=1/2, Shape=60% off/on wave, Warmth= Blend Tube &amp; Aggressive</p> <p>Tap Tempo 1:1, Middle of the road</p>	<p>Normal rate pot, Depth=Deep, Shape=max off/on duty, Warmth= Aggressive</p> <p>Playing Backwards Sound</p>	<p>Tap-1:3, Depth=deep, Shape=50% off/on wave, Warmth= Aggressive</p> <p>Tap Tempo-beat multiplied by 3, Deep</p>
<p>Normal- rate pot, Depth=Soft tremolo, Shape=40% off/on duty, Warmth=Blend Tube &amp; Aggressive</p> <p>Mild tremolo, 40% off/on duty</p>	<p>Normal- rate pot, Depth=3/4, Shape=min off/on duty, Warmth=Aggressive</p> <p>Min off/on tremolo, aggressive</p>	<p>Tap-1:4, Depth=Deepest tremolo, Shape=40% off/on duty, Warmth= Aggressive, OUTA - OUTB Ping Pong</p> <p>Tap Tempo- beat multiplied by 4, Deep Ping-Pong OutA to OutB</p>