



Wave



Ch. Phase



Shape

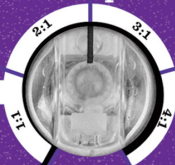


Depth

Ratio

Rate

Speed



-SHAPE SHIFTER-  
STEREO TREMOLO  
USER'S GUIDE

# SHAPE SHIFTER

Stereo Tremolo



Tap



Seymour Duncan®

 Seymour  
Duncan®



**Congratulations** on your purchase of the Seymour Duncan ShapeShifter Stereo Tremolo Pedal.

The ShapeShifter Stereo Tremolo Pedal has a true analog signal path but incorporates a digital processor for tempo control and adjustable wave and shape options. We feel this combination provides the widest palette of tremolo effects ever offered in a pedal while retaining all of the tonal benefits that high quality analog circuitry can bring. True stereo inputs and outputs allow the ShapeShifter to be used in a wide variety of live and studio applications. While primarily intended for electric guitar, the ShapeShifter can produce excellent results when used with keyboards, acoustic guitar and many other musical instruments.

In addition to a great variety of tone options, the Seymour Duncan ShapeShifter Stereo Tremolo Pedal has been outfitted with a versatile tap tempo system that combines a footswitch and a special Rate/Ratio toggle switch. You will also find a Phase control that allows you to set the timing between the pulsing of the two stereo channels and a lighted, flashing speed knob which indicates the tempo.

## HOW IT WORKS

- 1 Depth** – Sets the blend between your dry signal and the wet tremolo signal. This control allows you to set the mix from fully dry to fully wet, varying the effect from subtle shimmers to rhythmic pulses to complete freak out sounds.

- 2 Shape** – Adjusts the rise and fall time of the tremolo resulting in subtle changes where the volume increases and decreases in the tremolo signal. It is possible to continuously blend between three distinct shapes, as shown:



- 3 Wave** – This variable control allows you to continuously blend between three different types of tremolo, from a smooth sine wave found in vintage amps, to a choppy triangle wave, to an abrupt on/off pulsing square wave.
- 4 Speed** – There are two ways to control the rate of the tremolo effect.
- The first is by directly rotating the Speed control. In this mode, the Rate/Ratio switch (see **5** on next page) should be set to “Rate” mode.
  - The second is by using the Tap Tempo footswitch to tap in a tempo. When using the tap footswitch, the Rate/Ratio switch can be set in either position. See **5** on next page, for a description of what this switch does.



- 5 Rate/Ratio Toggle Switch** - This mini-toggle switch selects between two modes of operation for the Speed control.
- When in “Rate” mode, the control continuously varies the tempo from 0.5 pulses-per-second to over 15 pulses-per-second. When tapping in this mode, the tempo is entered directly in time with your tapping.
  - When in “Ratio” mode, by rotating the Speed control, you are able to select between four multiplication factors: 1:1, 2:1, 3:1 and 4:1 This mode is for use only when tapping in a tempo using the Tap Footswitch and is used to multiply the rate off your tapping to a faster tempo.

- 6 Channel Phase** - Continuously adjusts the phase between left and right output channels from 0 degrees to 180 degrees. This will only be noticeable when using stereo output. Three examples of phase relationships are shown here:



- 7 Status LED** - Indicates when the ShapeShifter is active. LED is on when the unit is engaged, off when in true bypass mode.
- 8 True Bypass Footswitch** - Removes the circuit from your guitar's signal via a hardwired connection from the input jack to the output jack.
- 9 Tap Tempo Footswitch** - Controls the timing of the tremolo, and can be used in conjunction with the Rate / Ratio switch (see **5** above).

- 10 Stereo Input Jacks** - Plug in any instrument, stereo or mono.
- 11 Stereo Output Jacks** - Run cable or cables to any amp, other pedal or recording system in either stereo or mono.
- 12 Power Jack** - You can use any 9 - 18 Vdc regulated DC adapter (negative polarity center terminal). Access internal 9V battery by removing (4) screws on underside of pedal. (Battery not included)

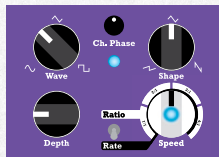
When the pedal is not in use, save your battery life by removing your instrument cable from the Input jack.

## LET'S GET STARTED!

1. Plug in a 9-18 Vdc regulated DC power supply with a negative polarity center terminal.
2. Run good quality shielded guitar cables from your guitar to the input jack or from another stereo pedal's output jacks, and from the output jack or jacks to your amp's input or to the next pedal on your pedal board or next item in the chain.
3. Start with the Wave, Shape, Depth and Speed knobs at 12 o'clock and the Channel Phase switch in the middle. Set your amp level appropriately.
4. Engage the ShapeShifter by pressing the True Bypass footswitch.  
The LED will Light up Blue when it's active.
5. Have fun experimenting!

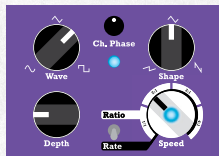
## SAMPLE SETTINGS

The ShapeShifter Stereo Tremolo can produce a dizzying array of effects from subtle shimmer to helicopter assault. These settings are just a few examples of what this unit can do. (All settings with toggle in Rate Mode).



### Classic American Trem

To achieve the lush, vibrant tremolo found on classic American amplifiers, try starting with these settings.



### Classic British Trem

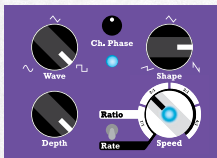
British tube amps put their own spin on tremolo and the results have fueled many timeless hit songs. Here's where you can get a touch of that UK Magic.



### Fluttering Shimmer

These settings give a cool, warbling quality to single-note lines reminiscent of organs and vibraphones.





## Helicopter Chop

This is a more radical version of tremolo that produces an on/off stutter to really drive your sound into madness.

### Specifications:

**Type of Circuitry:** Pure analog signal path, Stereo Input/Output, Digital tremolo timing

**Input Impedance:** 1 Meg Ohm

**Output Impedance:** 1.2K Ohm

**Gain:** 2.0dB maximum

**Max Tremolo Depth:** 30dB

**Max Output before Saturation:** 2.5V RMS

**Noise:** < 97dBV

**Frequency Response:** Wideband; -3dB at 3Hz and 50 kHz

**THD:** < 0.3% @ 1 kHz, 1VRMS

## **Control functionality:**

**Depth:** Continuously adjustable from 0 to 30dB

**Rate:** Continuously adjustable from 0.5 to 15 Beats per second

**Rate/Ratio Switch:** Works in conjunction with the Tap Tempo Footswitch and the Rate control. Allows setting tempo by direct taps or applies a multiplication factor for faster tempos.

**Shape (Duty Cycle):** Continuously adjustable from 10% to 90%

**Wave:** Continuously adjustable, sine to triangle to square waves

**Phase Control:** Continuously adjust phase between left and right output channels from 0 degrees to 180 degrees

**Power:** 9V battery or 9 -18 Vdc regulated adapter, center pin negative polarity.

**Current Consumption:** 13mA operate, 12mA bypass

**Bypass:** True hard-wire bypass

**Dimensions:** 3.50" wide X 4.70" deep X 1.60" tall

**Weight:** 0.9 lbs.



## LIMITED WARRANTY

Seymour Duncan offers the original purchaser a one-year limited warranty on both labor and materials, from the day this product is purchased. We will repair or replace this product, at our option, if it fails due to faulty workmanship or materials during this period. Defective products can be returned to your USA dealer, international distributor, or sent direct to our factory postage prepaid along with dated proof of purchase (e.g., original store receipt) and RMA number. Call or email our factory for an RMA number, which **must be written on the outside of the box**. We reserve the right to refuse boxes without an RMA written on the outside. As you might expect, this warranty does not apply if you've modified the unit or treated it unkindly, and we can assume no liability for any incidental or consequential damages which may result from the use of this product. Any warranties implied in fact or by law are limited to the duration of this express limited warranty.

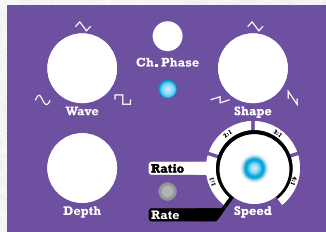
## DISPOSAL GUIDELINES

In the unlikely event that you ever need to dispose of this product, it must be disposed of properly by handing it over to a designated collection point for the recycling of waste electronic equipment. Please contact your local household waste disposal service or the shop where you purchased this product for those locations. Thanks for helping us conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

## FCC COMPLIANCE

This Device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference including interference that may cause undesired operation.

## PERSONAL SETTINGS



## USER NOTES

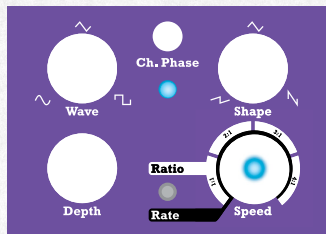
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## USER NOTES

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# WHAT WE STAND FOR

We stand for great tone:

It's the heart.  
The soul. The essence.  
The core of the sound.

We stand for musicians.  
Because soul matters.  
Spirit matters.  
Music matters.

We stand for quality.  
We're an American original.  
An industry leader.  
And we're always innovating.

We stand by our work.  
Our passion. Our history.  
It's in everything we build.  
In everything we touch.

We stand for great tone.  
Music. Power. Heart. Soul. Tone.  
It's who we are. It's what we do.  
We are Seymour Duncan.



Seymour  
Duncan

Real Soul.  
Genuine Tone.



Tap

**Seymour Duncan®**

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