

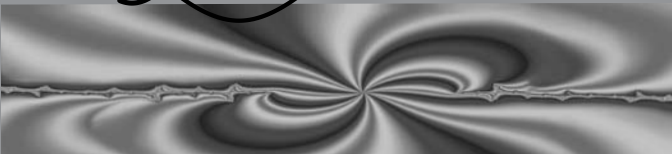


**Seymour  
Duncan**®

*For Tone That Sets You Apart™*



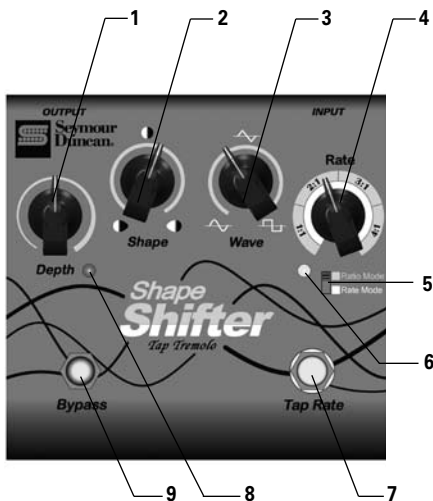
*Shape*  
**Shifter**™  
*Tap Tremolo*



***Congratulations*** on your purchase of the ***Seymour Duncan SFX-07 Tremolo Pedal™***. You can start using your Tremolo right away and you'll be able to immediately revel in the hypnotic, pulsing, vibey tones that this pedal is capable of. You might want to first read through these instructions in their entirety to gain valuable information that will enhance your enjoyment of your Tremolo.

## General Information

Between the 100% pure analog signal path and the digital tempo control, your SFX-07 is a trem like no other trem. Actually, that's not entirely true, because if you want the kind of tremulation that you know and love from your favorite tube amps, this pedal can do it. But if, in addition to that, you want inspiring and crazy tones that you've never heard before, the SFX-07 can do that too. In short, the Shape Shifter begins with the soul of the most musical tremolos of the past 50 years, and takes you places tremolo pedals have never gone before. Your Seymour Duncan stompbox is designed for years of solid performance. From the 16 AWG steel chassis to the studio-grade circuit design, this Tremolo is simply done "right."



FRONT PANEL

# Explanation of Controls

## Front Panel (See page 2)

**1. Depth** – “How much tremolo would you like?” This wide-range control smoothly varies the tremolo effect from a subtle shimmer to an intense rhythmic pulse.

**2. Shape** – “When should the rise and fall occur?” This amazing control allows for the variation of tremolo rise and fall time (how fast or slow the volume increases and decreases) for unique percussion and “reverse decay” effects.

**3. Wave** – “What should the tremolo wave look like?” This continuously variable control takes you from a smooth sine wave of your favorite vintage amps, to a choppy triangular wave to an abrupt on/off pulse square wave.

**4. Rate/Ratio Knob** – “How fast am I going?” This knob carries two functions. When in “Rate” mode, this knob simply adjusts the rate of the tremolo effect. From one pulse per second to more than twenty per second, this is a continuously variable control. When in “Ratio” Mode, this control takes you through four tempo subdivisions: 1x, 2x, 3x, and 4x, or quarter-notes, eighth-notes, triplets, and sixteenth-notes. This is not a continuous control, but corresponds to the four distinct ratios marked on the outer band.

**5. Rate/Ratio Mode Switch** – “What will the Rate knob do?” This switch governs how the Rate/Ratio knob operates (see Rate/Ratio Knob description above).

**6. Rate/Ratio Indicator** – Turns on when in “Ratio mode”

**7. Tap Tempo Footswitch** – “Let me set the tempo.” This switch lets you match the tremolo rate to any song or groove on the fly by simply tapping along in time. Even if you’re in Rate Mode (as selected by the Rate/Ratio Mode Switch), you can override the Rate setting by tapping in a new tempo at any time (the default setting is eighth-notes, or two trem cycles per tap). If you’re in Ratio Mode, entering your tempo on the Tap Tempo Footswitch will default to the rhythmic subdivision the Rate/Ratio knob. For example, when set to 3:1 you can tap in your

## Explanation of Controls

tempo and the tremolo pulsations will occur in triplets. (Don't worry if this sounds confusing—it's actually really intuitive and fun when you're plugged in.)

**8. Heartbeat LED** – “How fast am I going?” In addition to indicating the pedal's on/off status, this light pulses in time with the tremolo effect for easy Rate setting. The character of the LED also changes to reflect the Wave and Shape settings, for a highly intuitive visual reference.

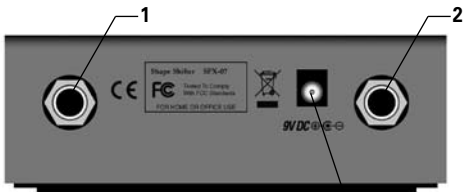
**9. True-Bypass Footswitch** – “Get out of my signal path!” Shutting the pedal off removes the circuit from your guitar's signal chain. This allows your guitar's signal to pass through the Shape Shifter without affecting your tone or gain. In addition, when bypassed, the processor goes into a sleep mode to preserve battery life.

## Back Panel

**1. Input Jack** – Plug in your guitar signal here. (or if compatible, the send from your amp's effects loop)

**2. Output Jack** – Provides the output signal. Run a cable from this jack to the input of a guitar amp. (or if compatible, the return jack of your amp's effects loop)

**3. Power Jack** – This is where you can connect a regulated 9-volt DC adapter (center negative) such as the Seymour Duncan 11802 if you opt not to run the Tremolo on a 9-volt battery.



The SFX-07 is an incredibly flexible effect and, as a result, it can be worked into your setup in a variety of ways. Let's examine a couple of possibilities.

### **Between Guitar and Amp**

Take the ¼" mono instrument cable from your guitar and plug it into the Trem's Input jack. Run another cable from the Shape Shifter's Output jack to the input of your amplifier. Set all the controls to 12:00 for starters, hit the On/Bypass footswitch, and listen to how cool your guitar sounds bathed in the Trem's pulsating, undulating goodness.

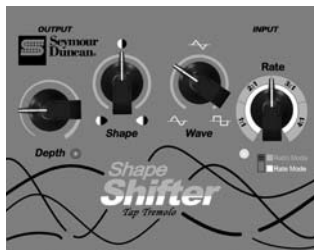
If you have other stompboxes in your chain, such as distortion or chorus pedals, experiment with placing the SFX-07 Shape Shifter before or after them. You can't really go wrong, but the character of the tremolo effect will change depending on where you put it in your signal chain so see what sounds best to you.

### **In an Effects Loop**

The SFX-07 Shape Shifter will sound different depending on where you place it in your signal chain, i.e. before or after distortion. You might want to try it in your amp's effects loop. To do this, run a ¼" mono instrument cable from your amplifier's effect send jack to the Input of the Shape Shifter. Run another cable from the unit's Output jack to the effect return jack on your amp. This puts the effect post-preamp, making it react more like traditional amp tremolo. Some effects loops—particularly those in older tube amps—are expecting line level signals (like the signals from most rackmount gear) and thus gain the reputation of not "playing nice" with certain stomp boxes. The Shape Shifter is designed for instrument level signals, but can accept maximum input levels of ~2v. If your level drops, or your tone gets weird when running the SFX-07 in your loop, then by all means get it out of there.

## In-Depth Examination of Features

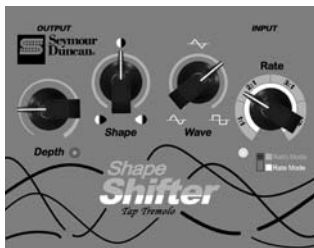
The SFX-07 Shape Shifter is capable of a huge range of sounds from the traditional, old-school trem tones heard on your favorite recordings to wild, sci-fi effects that are not possible with any other tremolo pedal on the planet. We'll start with the old-school first and then move into the mind-boggling.



### Classic American Trem

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

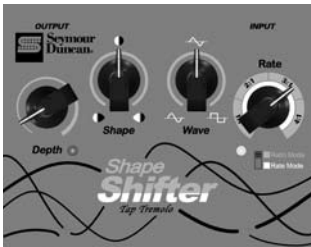
This produces a smooth, round, even pulse that's great for classic rock, alt-country, and spaghetti western flavors.



### Classic British Trem

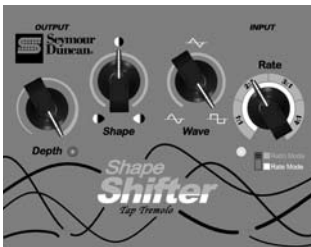
British tube amps put their own spin on tremolo and the results have fueled a bunch of timeless songs. Here's how you can grab a piece of that magic.

This will give you a dreamy throb with a slightly choppy quality.



### Fluttering Shimmer

These settings give a cool, warbly 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 that can really drive a tune.

# For the Sonic Adventurer

## Notes on Tap Tempo

The Tap Tempo feature of the SFX-07 is an incredibly powerful tool that takes this pedal way beyond what “normal” tremolos can do. It totally removes the guesswork of trying to sync your trem pulse to a song’s groove. Simply tap your foot on the Tap Tempo footswitch and you’ll hear the tremolo effect fall right in line, right on the downbeat, every time—with whatever Wave, Depth, and Shape settings you’ve chosen. If the Rate/Multiplier Mode switch is set to Rate, hitting the Tap Tempo footswitch will generate two trem cycles per tap. When this switch is set to Ratio, you can choose between one, two, three, or four trem cycles per tap, depending on which quadrant the Rate/Ratio knob is set to. Hint: The triplet setting (three cycles per tap) works great over shuffle grooves.

Another cool thing about Ratio mode is that you can change rhythmic subdivisions on the fly and they stay on the downbeat. Previously, this would be tough to pull off in a live situation for guitarists. It might seem like a studio trick or a DJ effect, but with the Tap Tempo footswitch, it is now within your reach. In Ratio Mode, set the Rate knob to the 1x (fully counter-clockwise) quadrant and enter the tempo of the song you’re playing with the Tap Tempo footswitch. Hit a chord and, while it’s ringing, rotate the Rate/Multiplier knob through the 2x, 3x, and 4x quadrants. What you’ll hear is your chord pulsing quarter-notes, then eighth-notes, then triplets, and finally sixteenth-notes, all in sync, and all hitting on the downbeat. The Shape Shifter has a “top speed” of 20hz. If you’ve already reached this top speed in the tap section, then increasing the Ratio can no longer have an effect.



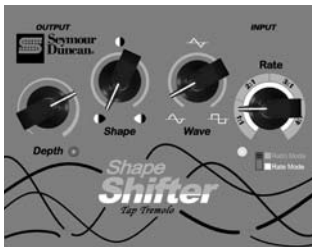
## Shape Shifting

By now you've figured out that the SFX-07 Tremolo can do classic trem beautifully. But it can do more—a lot more. The key to many of the SFX-07's most unique effects lies in the Shape control. So what does this knob do anyway? We're glad you asked . . .

Most tremolos increase the volume over a certain period of time (say, a quarter of a second) and then decrease the volume over the same period of time. This gives a smooth, even feel to the tremolo effect. When set to the middle of its range, the Shape control on the SFX-07 Tremolo does exactly that.

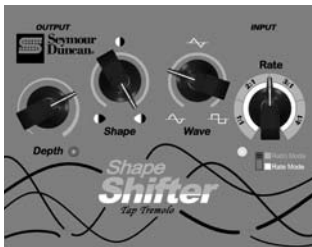
But here's where things get interesting. When the Shape control is rotated away from its center position, the relationship between the time spent increasing the volume and the time spent reducing the volume changes. For example, instead of a quarter of a second of volume increase followed by a quarter of a second of volume decrease (for a total time of a half second for a full tremolo cycle), you can dial in one-tenth of a second of volume increase followed by four-tenths of a second of volume decrease, or vice-versa. This adds a very different feel to the tremolo effect. From slightly skewed to one direction or another, to an instant rise or fall time, the tremolo effect now offers more than just a simple pulse. Plus, we found that with various vintage tremolo devices, during the rise and fall, the actual tremolo function can pull and sag voltage back and forth. The current draw and release can subtly affect the audible rise and fall times, creating a waveform that isn't perfectly symmetrical. At extreme settings, with a fast swell and a slow drop in volume, the effect is percussive and makes a clean guitar almost sound like a piano. Conversely, with a slow swell and sudden drop, your guitar tone sort of sounds like it's being played backwards.

Because of its radical nature, this control may take a little getting used to, but if you want to create tones that have never been heard before, the Shape control will be your best friend. Here are some righteous sample settings to get you out of your same-old same-old.



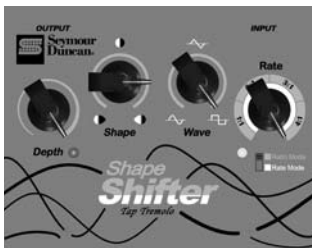
### Backwards?

This is a cool, psychedelic sound that will add a whole 'nother dimension to a tune, whether you sync it to the song's tempo with the Tap footswitch or just set the rate randomly.



### Faux Piano

This tone really lends itself to TapTempo synchronization. Its bizarre rhythmic pulse can easily be the main part of a song. It practically plays itself!



### Seizure

Rave out to this maniacal sputtering effect, and if you're quick on your feet, see if you can beat the machine clock with the tap button!

## Specifications

**Type of Circuitry:** Pure analog signal path, digital tremolo timing

**Input Impedance:** 1 Meg Ohm

**Output Impedance:** 1.2K ohm

**Gain:** 2.5dB maximum

**Max Output before Saturation:** 2.8V RMS

**S/N Ratio:** 95dB

**Frequency Response:** Wideband; -3dB at 3Hz and 165 kHz

**THD:** 0.09% @ 1 kHz, 1VRMS

**Tremolo Characteristic:** Gain variation linear in dB

## Control functionality:

**Depth:** Continuously adjustable from 0 to 28dB

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

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

**Rate:** Continuously adjustable from 1 to 20 Beats per second

**Tremolo Rate Controls:** Speed knob, tap tempo button, rate multiplier control

**Power:** 9V battery or 9V regulated DC adapter

**Current Consumption:** 7mA operate, 3mA bypass

**Dimensions:** 5.50" wide X 5.20" deep X 2.20" tall

**Weight:** 1.9 lbs.

**Chassis Material:** 16 gauge steel

**Bypass:** True hard-wire bypass

## Limited Warranty / Disposal Guidelines

Seymour Duncan offers the original purchaser a one-year limited warranty on both labor and materials, starting from the day this product is purchased from an Authorized Seymour Duncan Dealer. We will repair or replace this product, at our option, if it fails due to faulty workmanship or materials during this period. Defective products should 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 a RMA number clearly written on the outside of the box. Please call our factory for issuance of an RMA number.

This warranty does not apply to damage to this product or an instrument caused by misuse, mishandling, accident, abuse, alteration, modification or unauthorized repairs. Product appearance and normal wear and tear (worn paint, scratches, etc.) are not covered by this warranty. Seymour Duncan reserves the right to be the sole arbiter as to the misuse or abuse of this product. Seymour Duncan assumes no liability for any incidental or consequential damages, which may result from the failure of this product. Any warranties implied in fact or by law are limited to the duration of this express limited warranty.

This product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased this product.

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