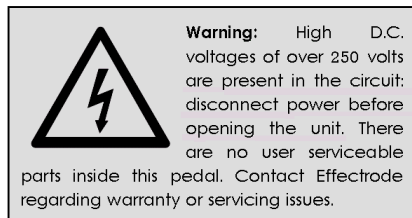


Specifications

- Input impedance: greater than $1M\Omega$
- Output impedance: less than $1K\Omega$
- Controls: Intensity, Speed and Volume
- Features: stagger-tuned capacitors
- Expression pedal: Roland EV-5 or EV-7.
- LED: pulsates with modulation speed for visual song tempo matching.
- L.F.O.: DC (frozen) -10Hz
- Power requirements: 12VDC @ 1Amp
- Dimensions: width 7.5" depth 4.8" height 1.3"
- Weight: 2lb (on Earth); 0.8lbs (on Mars)
- Construction: solid die-cast aluminum box
- Finish: Retro purple powder coat

Tube - Vibe

Owner's Manual



Serial #

TV-5B



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Introduction

The *Tube-Vibe™* is a no-compromise re-design of the Shin-Ei Shiftee *Uni-Vibe* used to create many classic recordings by artists such as David Gilmour, Robin Trower and Jimi Hendrix. This innovative effects pedal contains the same four photocells, light bulb and stagger-tuned capacitors as the original *Uni-Vibe*, however instead of budget transistors it utilises premium vacuum tubes in the pre-amplifier, mixer and phase-shift circuitry. High-quality, audio grade components coupled with this pure tube signal path give the *Tube-Vibe* a velvet richness and dimensional tone which was unattainable with the *Uni-Vibe* — your guitar tone will remain pristine and intact with no loss of lows or highs. The lamp/photocell driver circuit is capable of super smooth sweeps and deep, swampy tones for a powerful and distinct signature vibe sound. The resulting audio quality is outstanding — significantly better than the original or any of the modern vibe re-issues!

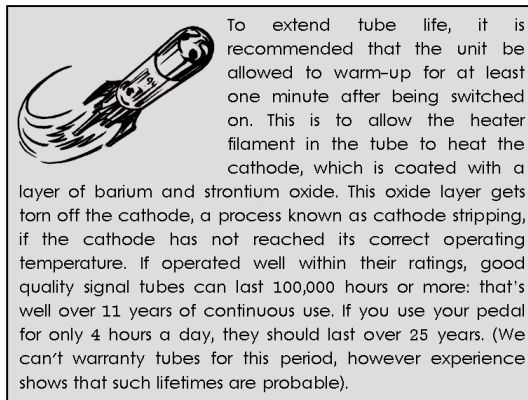
Thank you for trusting *Effectrode* to be your effects company. We wish you many years of musical enjoyment from this very special, hand-crafted, all-tube pedal.



Phil Taylor — Designer

Tubes

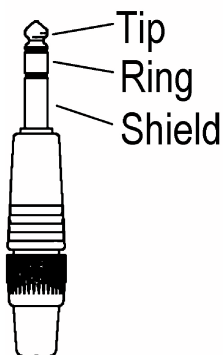
The 12AU7 tube in the *Tube-Vibe* can be swapped with other 9-pin double triode tubes, including 12AT7, 12AX7, 12AY7, etc. These substitutions typically yield higher gain and mild overdrive for a 'Leslie' style growl as well as tonal differences depending on the tube type, manufacturer, etc. Mil-Spec NOS are recommended, if they can be obtained.



Pots

This pedal is fitted with custom manufactured *Omeg* sealed for life potentiometers. These are sealed units so dust cannot enter them and will not dry out so do not require periodic cleaning or lubricating. Also, our unique pot bushing system protects the pot from mechanical damage (i.e. being stepped on!)

Expression pedal input allows the speed of the sweep to be controlled with an expression pedal, such as the Roland EV-5 or EV-7. If using a modified passive volume pedal, the internal potentiometer must have a resistance of in the range of 10K to 250K and should be connected as shown in the figure below.



Tip — wiper (pin2)
Ring - +5V (pin 3)
Shield — GND (pin 1)

External VCO The *Tube-Vibe* modulation speed can also be controlled using an external VCO (voltage controlled oscillator). Voltage range must be 0 to 5 volts.

Controls

Speed knob controls the rate of notch sweep across the audio spectrum. In counter-clockwise positions the modulation rate will be at it's slowest to create a dreamy, swirling and spacious effect. Turning this knob fully counter-clockwise will 'freeze' the sweeping of the notches to produce hollow sounding acoustic timbres.

Intensity knob is used to restrict the sweep of the vibe for more subtle effects. In 'VIBRATO' mode, it minimizes pitch de-tuning, making the sound more useable — slow vibrato with full sweep produces a seasick sound. In 'CHORUS' mode the knob controls the thickness & throb of the vibe. Centering it at the 12 o'clock position is a good starting point for achieving a classic *Uni-Vibe* chorus effect. Rotating the knob clockwise generates a progressively deeper, swampy tone, simulating a 'Leslie' rotating speaker system.

Volume knob sets the output level when the *Tube-Vibe* is engaged. In the centre 12 o'clock position gain is roughly unity. Turning this control fully clockwise yields a substantial +6dB of gain boost, which allows this pedal to be seamlessly matched and integrated into any rig or studio set-up.

Chorus/Vibrato switch selects between the classic Hendrix/Trower *Uni-Vibe* chorus (switch 'down') and de-tuning pitch-bend vibrato. (switch 'up')

Classic/Smooth switch selects between the classic, deep *Uni-Vibe* throb (switch 'up') and smoother, more ethereal chorus voicing (switch 'down').

Internal **Blend** trimmer allows the 'dry' and effectified signals to be mixed in continuously in any proportion for a wide palette of tonal textures. When fully counter-clockwise only 'dry' signal is present and when fully clockwise only effectified signal is present. If the **Blend** trimmer is set near the center 12 o'clock position then the mix of the 'dry' and effectified signals are balanced, producing lush, liquid-chorus Hendrix/Trower sounds. The notch-depth and thus the depth of the vibe can be fine-tuned by adjustment around this center position. Rotating this control counter-clockwise will reduce the vibe depth by decreasing the notch depth.

To access the **Blend** trimmer, first disconnect the power to the pedal, carefully unscrew the six screws underneath the pedal and then remove the base-plate.

Footswitch allows selection between effectified (chorus or vibrato) and non-effectified (dry) signal. Silent true bypass switching ensures there are no 'pops' or thump when engaging the effect and that there is absolutely no loss of tone from your guitar to your amp when the effect is disengaged.

All *Effectrode* pedals feature our innovative **Silent-Switching™** true bypass system, where an active audio circuit minimises the 'pop' or 'thump' when the effect is engaged. Additionally, as a failsafe, the circuitry will always default to bypass if power is interrupted to the pedal ensuring that you can continue to perform. Signals are switched using a precision audio relay with gold-plated contacts for superior tone and performance over multi-pole footswitches, which were not originally designed for constant use or audio signals. The relay also shortens the signal path so that signal is not routed through any internal wiring thus preventing noise contamination.

Note: Many effects pedals degrade the sound quality of electric guitars. For this reason tube amplifier manufacturers often recommend the use of parallel effects loops, instead of series ones. The tube signal path in *Effectrode* pedals is built to demanding audiophile standards to ensure hi-fidelity and signal integrity at all times, with the benefit that your guitar tone always remains pure and intact.