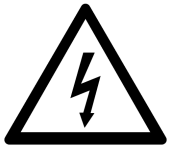
Specifications

- Input impedance: greater than 1MOhm
- Output impedance: less than 10KOhm
- Controls: intensity, speed and volume
- Features: stagger-tuned capacitors
- Expression pedal: Roland EV-5 or EV-7.
- Purple LED: pulsates with modulation speed for visual song tempo matching.
- L.F.O.: DC (frozen) -10Hz
- Power requirements: 12VDC @ 1.2A
- Dimensions: width 6.8" depth 4.8" height 2"
- Weight: 2lb (on Earth); 0.8lbs (on Mars)
- Construction: solid die-cast aluminum box
- Finish: prismatic purple powder coat



Warning: High D.C. voltages of over 300 volts are present in the circuit: disconnect power before opening the unit. There are no user serviceable parts inside this pedal. Contact Effectrode regarding warranty or servicing.

Serial # **TV-4D**

Tube-Vibe

Owner's Manual

effectrode audiophile pedals

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Introduction

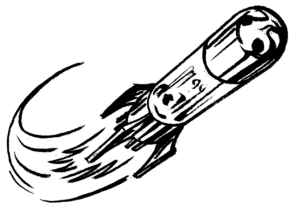
Welcome to the shimmering dimension of pure tube tone. The 'Tube-Vibe' is an, innovative, no compromise re-design of the original U-915 Shin-Ei Shiftee Uni-Vibe. Artists such as SRV, Robin Trower and Hendrix have utilized this effect on many classic recordings. Jimi Hendrix was obsessed with sounding like he was underwater, dreaming of underwater guitar tones. This vibe pedal is designed for undersea 'trips' and dives deep below the surface to explore a whole new world of tonal possibilities.

High-quality, audio grade components coupled with a pure tube signal path give the Tube-Vibe a warm, natural & transparent sound, ensuring your guitar tone remains pristine & intact. The lamp driver circuit is capable of extremely smooth sweeps at low modulation rates and deep, swampy tones at higher rates for a powerful & distinct signature vibe sound. For the ultimate quality 'experience' take some time to read this manual and familiarize yourself with the features of your new pedal.

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

Phil Taylor — Technical Director

Tubes

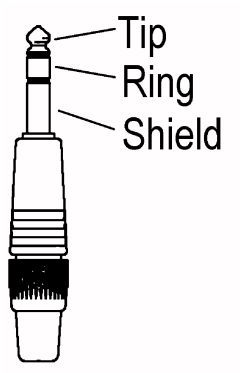


To extend tube life, it is recommended that the unit be allowed to warm-up for at least one minute after being switched on. This is to allow the heater filament in the tube to heat the cathode, which is coated with a layer of barium and strontium oxide. This oxide layer gets torn off the cathode, a process known as cathode stripping, if the cathode has not reached its correct operating temperature. If operated well within their ratings, good quality signal tubes can last 100,000 hours or more: that's well over 11 years of continuous use. If you use your pedal for only 4 hours a day, they should last over 25 years. (We can't warranty tubes for this period, however experience shows that such lifetimes are probable).

The 12AX7 tube in the Tube-Vibe can be swapped with many 9-pin double triode tubes, including 12AT7, 12AU7, 12AY7, etc. These substitutions typically yield lower gain and more headroom as well as tonal differences depending on the tube type, manufacturer, etc. Mil-Spec NOS are recommended, if they can be obtained. Unfortunately the JAN Philips 12AX7 is becoming difficult to obtain these days as stocks are finally being depleted.

TRIODE CLASS-A

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)

It is also possible to control the modulation speed using an external VCO (voltage controlled oscillator) with range 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. Rotating the knob clockwise produces a progressively deeper, swampy sound simulating a 'Leslie' rotating speaker system.

I**ntensity** knob is used to restrict the sweep of the vibe for more subtle effects. In chorus mode it controls the thickness & throb of the vibe sound. Centering this knob at the 12 o'clock position is good starting point for achieving a classic Uni-Vibe chorus effect. In vibrato mode, it minimizes pitch de-tuning, making the sound more useable (slow vibrato with full sweep produces a seasick sound).

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.

Internal **Blend** trimmer replaces the vibrato/chorus toggle switch that was found on the original Uni-Vibe. It 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.

Many effects units 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.