AXIOM

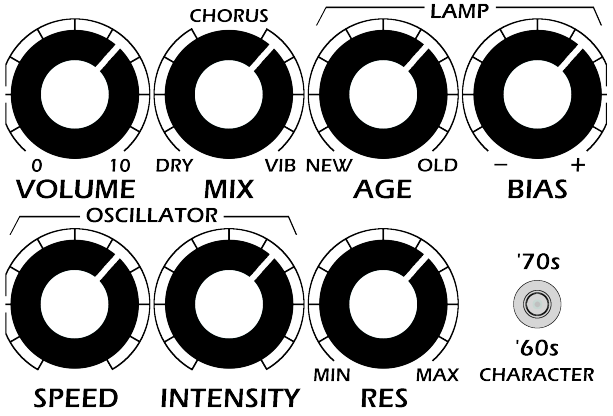
OMEGA-VIBE OV-2

USER'S MANUAL

www.AXiomEffects.com

AXiom Omega-Vibe OV-2

The AXiom Omega-Vibe OV-2 is a 100% analog vibe pedal that authentically recreates the heartbeat-like throb and phasing of the legendary Shin-ei/Univox Uni-Vibe without the use of an internal lamp. It features a powerful oscillator section that not only precisely produces the asymmetric sine-wave lamp response of the classic Uni-Vibes but also gives you control over lamp BIAS (which was internally set at the factory in Uni-Vibes) and lamp AGE (lamps dim and their light response changes as they age). There's a MIX control that allows you to fine-tune the level of dry to effected signal (from completely dry through chorus to full vibrato), a RESonance control that increases the intensity of the "phasing", a CHARACTER switch that toggles from the smooth, even low-end sweep of the 1960s Uni-Vibes to the more intense pulse of the 1970s units, and standard INTENSITY, VOLUME and SPEED controls with enhanced operating ranges. Internally, there's a switch to set input impedance to vintage or modern values and a "skew" control that adjusts the asymmetry of the oscillation. And it does all of this on a standard 9Vdc adaptor or battery.



VOLUME: Increases the output volume level as the knob is turned clockwise.

MIX: Adjusts the effect gradually from dry to chorus (maximum phasing) to full vibrato. Traditional vibe pedals have only fixed chorus and vibrato settings.

AGE: Mimics the effect of an aging Uni-Vibe lamp (from *NEW* to *OLD*) as the knob is turned clockwise. As incandescent lamps age their brightness decreases and their light response changes.

BIAS: Corresponds to the internal bias trimmer on traditional Uni-Vibe units. As the knob is turned clockwise (from - to +) the intensity of the effect increases.

SPEED: Increases the speed of the oscillation as the knob is turned clockwise.

INTENSITY: Increases the range (i.e. depth) of the effect as the knob is turned clockwise.

RES: Increases the amount of internal resonance feedback. As RES is turned clockwise phasing gets more intense. Traditional vibes have no resonance feedback (RES on "min"), most modern phase shifters have varying degrees of feedback.

CHARACTER: Toggles between the smooth, phasey sweep of the 1960s Uni-Vibes to the throbbiness of the 1970s units.

SKEW (internal trim pot): Adjusts the asymmetry of the oscillation. In the mid position the oscillation waveform is perfectly symmetrical. Counter-clockwise settings skew to the waveform to left, clockwise skews to the right. A setting of about 1 O'Clock corresponds to a typical vintage Uni-Vibe (this is the OV-2 factory setting).

IMP (internal dip switch):

Up: Vintage input impedance. Sets the total input impedance to under 65 kOhm. This gives the "chewy" bottom-end and softened highs of the original Uni-Vibes.

Down: Modern. Sets the input impedance to about 1 MOhm for a full-frequency response.

RES (internal dip switch):

Up: On. Turns the functioning of the front panel RES control on.

Down: Off. Completely removes the internal resonance feedback line from the circuit, turning the front panel RES control off (like traditional Uni-Vibes).

EXP jack: Connect a standard TRS expression pedal for speed control (this defeats the front panel SPEED control). Most expression pedals will operate so that speed increases as you rock the treadle back and decreases as the treadle is pushed forward.

Expression pedal mod: To mod your TRS expression pedal to work in the opposite direction wth the OV-2, swap the wires going to lugs 1 and 3 of the exp pedal potentiometer. (See AXiom Effects OV-2 page for details).

DIMENSIONS:	**Height 4.7" Width 3.9" Depth 1.3"**
WEIGHT:	**1.1 lbs.** (without 9V battery)
VOLTAGE:	**9 Vdc** (battery or external power)
INPUT IMPEDANCE:	**64.7 kOhm** (Vintage) **or 1 MOhm** (Modern)
CURRENT DRAW:	**38 mA** (maximum)
POWER CONNECTION:	**2.1 mm, center negative** (9 Vdc standard)