Whetstone

analog phaser

model WHET-1

serial number

technical specs:

CONNECTIONS:
input/output jacks (1/4" mono)

power adaptor jack (2.1mm barrel-type, negative center)

BYPASS:
True Bypass

POWER SUPPLY:
Safely powered by DC 9V-18V supply. No battery connection provided.

CURRENT DRAW:
45 mA

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OWNER'S GUIDE

VIBRATO prevents the clean signal from being mixed with the wet signal, allowing for a 100% wet setting which transforms the phaser into a strong pitch vibrato effect.

Use in 2-STAGE mode for a subtler vibrato or 4-STAGE mode for throbbing pitch-bending fun.

NOTE: the DEPTH knob is best left on 10 when in VIBRATO mode. As there is no longer a clean signal present, all the DEPTH knob would do is slightly attenuate the pedal's output level/treble response.

ASYMMETRICAL mode provides an alternative phase sound in contrast to the studio-perfect up-and-down swoosh of a classic phaser. In ASYMMETRIC mode the phasing takes on a more irregular sweep pattern and emphasizes different frequencies throughout the sweep, somewhat like a doppler effect or a rotating speaker cabinet. Instead of up-and-down, the effect becomes more akin to near-and-far.

NOTE: In combination with VIBRATO mode almost vocal, auto-wah/tremolo-like tones can be found.

LOWPASS mode converts two of the all-pass filter stages into low-pass filter stages.

In 4-STAGE mode you will have two all-pass stages followed by two low-pass stages, which combine for a dark & swampy phase tone.

In 2-STAGE mode both stages will be low-pass, creating a unique phase/tremolo effect and some mellowing of the phaser peaks.

NOTE: Try different combinations of VIBRATO, ASYMMETRICAL & LOWPASS modes with varying amounts of FEEDBACK for sounds that stray from standard modulation tones.

SWEEP mode - not to be confused with the DEPTH knob - controls how deep (or wide) the LFO sweeps above and below center.

SHALLOW will produce a smaller LFO sweep and therefore has a slightly faster rate, as the shorter distance of travel takes less time to return to center. The opposite is true for WIDE mode.

NOTE: both SWEEP modes are useful in acheiving more variations of ringmod and octave effects in RING mode.

STAGES chooses between 2 or 4 all-pass filter stages - both classic sounds in their own right.

2-stage phasing is suitable for creating softer, subtler sounds.

4-stage phasing has a much deeper, pronounced effect that is more characteristically phaser-like.

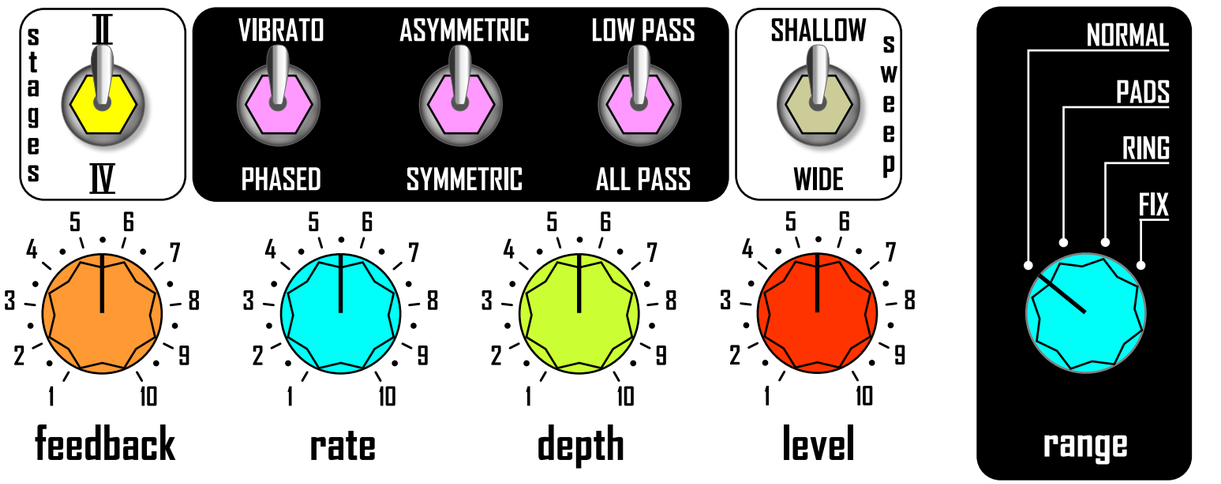
FEEDBACK (AKA Resonance or Regeneration) ranges from practically nil to over-the-top. Settings between 1-8 are where you will find your traditional modulation sounds. At extreme settings (8 or higher) there is a "point of no return" where the feedback has mostly consumed the original signal and the oscillating woosh of the phaser becomes the most prominent element.

DEPTH controls how much wet signal is blended into a fixed amount of clean signal.

At 1-3 the phasing will be subtler and allow the clean signal to shine without too much coloration. This setting is also useful to achieve octave effects while in RING mode or utilize faster phaser bubbles without completely overwhelming your signal.

4-7 is the typical operating range for classic modulation tones and the DEPTH knob allows you to dial in just the right sound.

8-10 are intensity embodied.



WETSTONE
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RATE & RANGE are in cahoots. The RANGE control sets the range of LFO speeds available on the RATE knob.

The NORMAL setting is where you will find your classic phaser settings - moderately slow through moderately fast.

The PADS setting changes the range of speeds from cold molasses to the slowest of slow - think 40 seconds sweep peak-to-peak.

The RING setting is all fast, all the time. Here you will find ultra-fast phaser bubbles, to many flavors of psuedo-ring modulation, to outright oscillation and noisemaking. HINT: dial down the DEPTH knob while in RING mode if octave generation is your thing.

The FIX setting kills the LFO completely. In this setting the RATE knob will manually sweep through different points in the phasers sweep, allowing for stuck-wah-like sounds, hollow telephone effects, and provides overall different approaches to tone shaping.

LEVEL solves the age-old phaser issue of having no control over volume drops OR volume boosts. LEVEL allows you to set the output level to match the level of your bypassed signal.

The LEVEL knob works in conjunction with the internal gain trimpot, which controls the range of volume available. There is enough clean volume on tap to push your amp into overdrive OR crank up the internal gain trimpot for some dirty phaser love on your clean amp.