



White Whale is an all-analog true spring reverb and tremolo pedal, small enough to fit on your pedalboard. In this reimagined second version we have upgraded the power amp section driving the reverb tank assembly for more headroom and drip resulting in bigger reverb sounds. A toggle switch lets you select between 3 reverb sizes/voicings; from small and medium size blackface amp style spring reverb to the fat and surfy sounds of an external reverb unit. Tremolo section has also been upgraded to incorporate a pulsing brownface style harmonic tremolo now covering the grounds of most amp style tremolo effects. The two effect sections are now completely independent and their order can be selected. Classic sounds of the past with modern flexibility!

Controls:

#### REVERB

**dwell:** controls the strength of the signal that is going into the power amplifier that drives the spring tank. Affects the “drip”, tonal quality and decay of the reverb effect. <sup>(1)</sup>

**tone:** controls the presence/brightness of the reverb effect.

**mix:** blends the amount of wet (reverb signal) into dry.

**volume:** set the master volume of the reverb section. Use it to boost the signal if needed on higher mix settings.

**reverb size toggle switch:** select the size and decay of the reverb effect. Select between the reverb qualities of a short 2-spring reverb tank, a medium 2-spring reverb tank and a long 3-spring reverb tank assembly. <sup>(2)</sup>

**reverb soft-click footswitch:** true bypass (via a high-quality relay) or engage the reverb effect.

#### TREMOLO

**speed:** set the rate of the tremolo effect. We’ve extended this control’s range beyond the standard amp style tremolo effects, from slower to faster to maximize your creativity.

**depth:** set the intensity of the tremolo effect.

**volume:** set the master volume of the tremolo section. Use it to boost the signal if needed on higher depth settings.

**tremolo mode/circuit toggle switch:** select between a tube bias shifting style tremolo, an optical tremolo as found in blackface amps and two variations of brownface style harmonic tremolo.

**harmonic tremolo hard/soft switch:** affects the range and sweep of pulsating frequencies. Select between a wider range and more pronounced sweep from high to low frequencies (hard) to a smoother sweep and gentler throb (soft). Reflects the harmonic tremolo circuit variations as found in the original brownface amplifiers.

**tremolo fx order toggle switch <sup>(3)</sup>:** select the order of tremolo effect in relation to the reverb section. Optical and tube bias style tremolo usually sound better when placed after (post) the reverb effect. Harmonic tremolo usually sounds better when placed in front (pre) of the reverb effect.

**tremolo soft-click footswitch:** true bypass (via a high-quality relay) or engage the tremolo effect.

#### POWER-UP BYPASS STATE PRESET:

On power-up both LEDs will blink and then go in bypass mode by default. Hold the footswitch(es) during power-up to change the default function to engaged (on state). Repeat the procedure above to restore the previous setting.



#### **Expression/remote controls – internal assign switches <sup>(4)</sup>:**

**Rev XP:** plug an external TRS expression pedal with up to 100k potentiometer value to control reverb mix. The onboard reverb mix control setting affects the range of the expression pedal operation.

**Trem XP:** open the backplate and locate the XP-TAP mini slide switch that sits on the PCB next to the trem xp jack. Use a small flat screwdriver to: Set to **XP** position to control the tremolo rate (speed) via an external TRS expression pedal with up to 100k potentiometer value. The onboard tremolo speed control setting affects the range of the expression pedal operation.

Set to **TAP** position to control the speed of tremolo effect via an external tap footswitch (use a mono TS cable).

**Remote:** use an external remote switcher via a stereo cable (TRS) to activate or bypass reverb and tremolo sections independently. Accepts momentary footswitch operation only. A matching artwork remote switcher is sold separately.

**⚡ Power supply <sup>(4)</sup>:** Use an external 9V DC center negative, regulated/stabilized power supply. An isolated power supply output is recommended for best performance. Max current consumption depends on input signal. Max idle current consumption 145mA, max current consumption at line level 180mA.

**Warning: This unit was designed for 9V DC center negative input only.**

**Do not use a higher voltage or reverse polarity power supply as it will cause malfunction and void warranty!**

#### **Notes:**

<sup>(1)</sup> Higher settings may produce clipping – overdriven reverb sounds.

<sup>(2)</sup> The difference in reverb size and decay comes from carefully tuned all analog tone shaping filters before the reverb driver (power amp). The spring reverb assembly used in all 3 settings is always the same.

<sup>(3)</sup> A slight pop or click is perfectly normal when changing the effect sections order.

<sup>(4)</sup> External expression pedals, tap/remote footswitches and power supply are not included or may be sold separately.

#### **Precautions:**

-This pedal features a real spring reverb tank assembly with input and output transducers. Make sure to keep the pedal as far as possible from strong magnetic fields like power transformers, supplies etc.

-The reverb tank assembly is attached to the bottom pedal of the pedal. Do not unscrew the 2 tiny screws located near the center of the bottom plate. Open or secure the bottom plate through the 6 side screws with extreme caution not to bend or cut the wires connecting the spring reverb tank assembly to the circuit board.

**Warranty: White Whale** comes with 5 years warranty for all internal parts from date of manufacture. We will provide service/repair at no cost within 5 years from date of manufacture - buyer is responsible for all shipping costs and customs fees/taxes that may apply. This warranty excludes normal cosmetic wear and damages done to the spring reverb tank or internal circuit due to misuse or improper handling.

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