



GLITCH

INSTRUCTIONS



Thank you for purchasing the wood version of the Glitch pedal. It is an unruly and chaotic sounding octave up fuzz that outputs an error strewn version of the input signal over 7 octaves.

The pedal is based upon a Phase Locked Loop chip that was first put into production in 1971. The purpose of this IC is to lock onto the phase of an input signal and reproduce it's frequency. The controls provided on this pedal allow the user to manipulate how the fast and sensitive gate input functions, creating interesting errors and unconventional waveshaping.

The output from the chip is mixed back with the input signal either by adding the glitched sound to the output, or using it to modulate the clean signal. Allowing for a full synthesized tone or a cleaner and more dynamic output.

Whilst it is intended as an experimental noise pedal, setting all controls at zero will also create a smooth and more sensible octave up output.

The effect is true bypassed as normal by the footswitch. There are two LED's, the left shows the bypass state, whilst the right represents the glitching sound.

Controls

GLITCH

This control limits the ability of the PLL to lock on to the phase of the input signal. Turning this control up increases the chips sensitivity to high frequency change.

CONFUSION

Varies the initial filtering of the guitar signal into the chip. In a guitar synthesizer this is normally meant to reduce overtones and harmonics and produce a simple representation of the fundamental note. In this situation it is used to increase the complexity of the signal and maximise sensitivity to your picking style and pickup settings. Making the effect more unpredictable and randomised.

LOCK-UP

This controls the rate at which the phase lock will attempt to recover from error and relocate the phase of the input signal. Increasing this control will interact with the other settings and change the waveshape of the output signal, making thin and robotic type sounds.

When the Carrier control is turned up, the Lock Up setting works in conjunction with this setting, providing fine tuning of the setting.

Whilst using the unit for the first time it is recommended that you keep returning each control to zero to understand what each one does. With all these tunable controls in their lowest position, the phase lock on the chip is set up to have the greatest chance of producing the correct note at the output and producing a 'normal' sounding signal.

As the controls are edited, they begin to interact, allowing for the maximum variability possible.

FREQUENCY

The main 'chicken head' switch determines the multiplication setting. Allowing for 6 octaves above the original pitch. There are also modes A, B, C and D which provide a wandering pitch. When using the high frequency sounds it is important to turn up the carrier setting to maintain an output signal in our hearing range.

CARRIER

Varies the frequency of the main oscillator in the chip allowing for Hard Sync type effects. When set at zero the control is disconnected and the unit tracks the guitar pitch as normal.

MOD/ADD

This is a mix control at the output of the effect which changes the overall voicing of the Glitch sound. At it's lowest point, the output contains a modulated version of the clean sound. This is done by using the Glitch sound to switch it on and off. When this dial is increased, the synth like Glitch sound is added to the output signal instead.

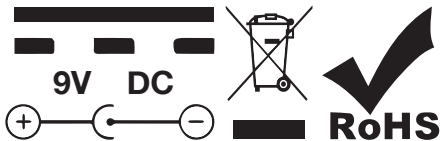
TECHNICAL INFORMATION

Input Impedance: $1\text{m}\ \Omega$
Output Impedance: $100\text{k}\ \Omega$
Current Consumption: 35mA

SAFETY GUIDELINES

This pedal should be used with a 9v DC power adaptor dedicated for use with guitar effects. It uses a centre negative polarity 2.1mm socket (see diagram below), standard to 9v guitar pedals.

If any problems occur, stop using the pedal and contact us for advice any time of the week for advice on how to proceed.





GUARANTEE INFORMATION

The pedal comes with a 6 month guarantee commencing from date of delivery. This covers any defects in the pedal operation resulting from faults in the materials or construction. Repairs outside of this time may incur a small fee but in most cases it's still free.

This guarantee is not extended to damaged, opened, modified or improperly used items.

CONTACT DETAILS

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