

HARD SYNC

INSTRUCTIONS



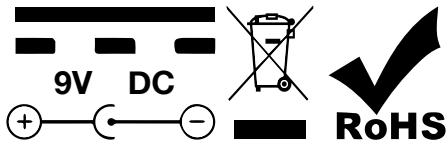
TECHNICAL INFORMATION

Input Impedance: 1m Ω
Output Impedance: 100k Ω
Current Consumption: 35mA

SAFETY GUIDELINES

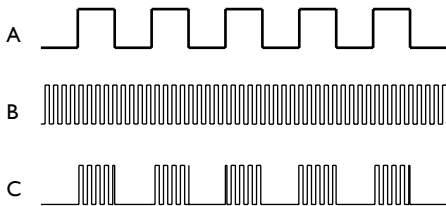
This pedal should be used with a 9v DC power adaptor dedicated for use with guitar effects. It uses a centre negative polarity 2.1mm socket standard to 9v guitar pedals (see diagram below).

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



Thank you for purchasing the Hard Sync pedal from MWFX, here are a few notes about the effect, design and operation.

Oscillator synchronisation is synthesis effect that adds tuned timbres to a simple keyboard tone. The original keyboard signal, in this case a guitar or microphone (A), triggers a secondary tone of higher pitch (B).



The resulting sound is a signal at the pitch of the guitar note, with its harmonic content consisting of the secondary oscillator sound (C). For this to happen 100% correctly it is important that B is equal or above that of the guitar note.

The effect is true bypassed by the footswitch. There are two LED's, the right shows the bypass state, whilst the left one represents the envelope follower sensitivity.

Controls

DRY

Mixes the dry guitar signal back into the output, this signal can be switched to a tube like Fuzz signal using the switch below.

SYNC 1

Varies volume of the first layer of synchronisation.

SYNC 2

Varies volume of the second synchronisation layer.

RANGE

Sets the sensitivity of the envelope follower. Increasing this will boost the power of the incoming signal. When in operated in Fixed mode, the lower limit is by turning this level up.

FREQ 1

According to how the switch below labelled Auto 1/Freq 1 is set, this switch varies the how high the pitch of the first internal oscillator is running.

FREQ 2

Works in same way as FREQ 1.

Switches

FUZZ/DRY

Sets whether the Dry signal is clean or fuzzed.

ENV/FIXED

Works in conjunction with Range control. In fixed mode the envelope follower runs constantly, with it's level being increased by the Range setting.

AUTO 1/FREQ 1

Switches the first oscillator between automatically reacting to the envelope follower (guitar volume) or staying fixed at a constant pitch.

MOD/ADD

Sets whether the secondary oscillator is modulating SYNC 1's signal for a second layer of synchronisation, or simply being added alongside.

OSC/SLAVE

Switches the secondary oscillator between a simple oscillator tone, or one that is controlled by the guitar pitch.

AUTO 2/FREQ 2

Switches the secondary oscillator between automatically reacting to the envelope follower (guitar volume) or fixed at a constant pitch.



GUARANTEE INFORMATION

- The pedal comes with a 6 month guarantee commencing from date of dispatch.
- 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.
- This guarantee does not cover dismantled goods or damage due to improper use

CONTACT DETAILS

info@mwfx.co.uk
www.mwfx.co.uk

All circuitry, logo, names and design
©2016 MWFX