

Reuss Subsonic Why

A super versatile and flexible bass driver, mixing fuzz, overdrive and clean sound freely in any measure. A signature pedal for Danish artist Jakob 'Yabaz' Jørgensen of Psyched Up Janis and more. The pedal can also be pre-set for guitar players via DIP-switches inside.

Working principle

The Subsonic Why is unique in the way it lets you blend and balance two completely different dirt circuits: A wild fuzz and a smooth amp-like overdrive.

The fuzz is very faithfully based on the late sixties/early seventies 'triangle' BM fuzz circuit.

The overdrive features twin clipping stages and a smooth, natural and transparent sound with a slight mid-range scoop.

The two circuits are routed in parallel, which means that the input is split in two and feeds directly into both circuits. This is different from typical 'two-in-one-pedals' where the two circuits are wired in series ('stacked'). One feeding into the other.

The outputs of the two individual drive circuits of the Subsonic Why are combined in a mixer, controlled by the 'DIRT MIX' knob. This combined sound then hits another mixer which allows you to mix any amount of clean sound into the drive sound.

Controls

- **'BIG FUZZ'** adjusts the fuzz level of the BM circuit
- **'FUZZ TONE'** is the fuzz circuit tone control. Turning it clockwise makes the sound brighter
- **'DRIVE'** adjusts the amount of drive of the overdrive circuit. The range of this knob can be adjusted via a trimmer inside the pedal (see 'Internal custom settings').
- **'DRIVE TONE'** is the tone control of the overdrive circuit. Turning it clockwise makes the sound brighter
- **'DIRT MIX'** mixes the output of the two drive circuits. All the way counter clockwise is pure fuzz. All the way up is pure overdrive.
- **'CLEAN MIX'** allows you to mix your clean sound into the dirty sound. More clean sound is mixed in as the knob is turned clockwise. No clean all the way down. Pure clean sound all the way up (the pedal will function as a clean boost in this setting)
- **'LEVEL'** adjusts the output level of the pedal



Internal custom settings (see photo next page)

- The fuzz circuit board is the small, almost square one above the footswitch.
- **Fuzz Switch Lane 1:** This selects the tone control's notch frequency between 500 Hz (bass) and 1000 Hz (guitar/standard BM). 'ON' position is 500 Hz. The pedal ships with the switch in this position (guitar players might like it too).
- **Fuzz Switch Lane 2:** This switches between standard BM mode ('ON' position) and a modification where one set of clipping diodes are omitted from the circuit ('OFF' position). The latter gives a tighter, less distorted sound which is good with bass. In this mode, the BIG FUZZ control should be kept low to avoid overloading the clipping diodes completely - with sick and weird sounds as a result.
- **Overdrive GAIN MOD:** This switch activates the trimmer pot which limits the range of the DRIVE control. The trimmer is active with the switch in 'ON' position. Turning the trimmer counterclockwise increases the limiting. Pedal ships in GAIN MOD 'OFF' mode.

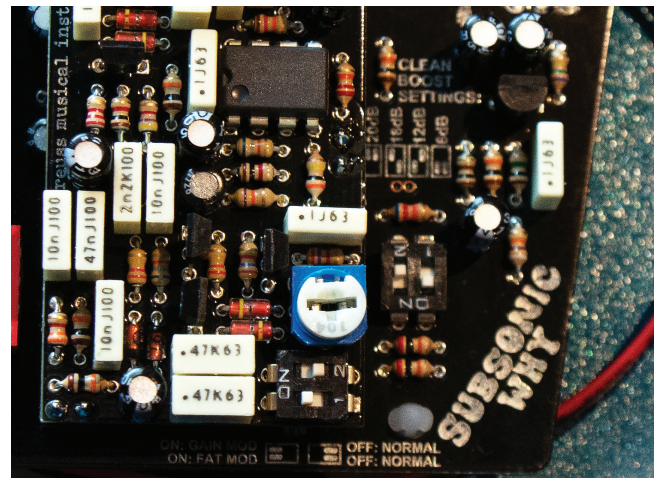
(continues next page)

(... continued from previous page)

- **Overdrive FAT MOD:** This switch extends the low-end response of the overdrive circuit one octave down in 'ON' mode. Guitar players are recommended to set it in 'OFF' position. The pedal ships with this switch in 'ON' position.
- **CLEAN BOOST SETTINGS:** These switches controls the boost level of the clean signal which is fed to the 'CLEAN MIX' control. It can be set in four steps (+6, +12, +18 and +20 dB). Please see illustration at circuit board. The pedal is shipped in +18dB setting.

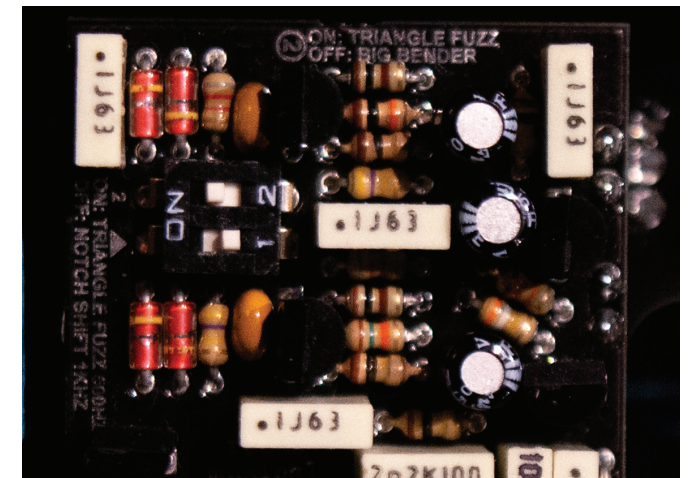
Connectors

- **'INPUT'** is the input. Connect your instrument here.
- **'OUTPUT'** is the output.
- **'9-18V DC'** is a standard 'Boss type' guitar pedal power supply input (negative centre). It is safe to run the pedal at up to 18V



Specifications

- Unique parallel overdrive/fuzz pedal which allows you to mix a fuzz and an overdrive circuit and a clean channel freely to create complex and versatile dirt effects.
- The pedal can be customized via a large selection of internal switches and controls.
- Contains eight rare vintage new old stock 1S2473 clipping diodes which has a softer 'knee' and a less harsh sound than current production silicon diodes
- Extremely high build quality. Completely hand-made in the European Union using old fashioned 'plated through hole' construction. No robot soldering
- Rugged aluminum enclosure in a metallic teal finish. Silk screen printed graphics
- High quality Neutrik jacks, wired by hand
- Upgrade quality footswitch, good for 50000 stomps (a standard switch takes 6000)
- Runs at 9-18 volt using an external power supply (not included) or a 9V battery (not included)
- Power consumption 25 mA



Battery access

Remove the four screws at the bottom side of the pedal with a Philips head screw driver to remove the bottom plate and gain access to the battery

Warranty

All Reuss pedals comes with a limited 24 months warranty against manufacturing faults
The warranty is not covering normal wear and tear or abuse

Circuit and design copyright 2020
Reuss Musical Instruments / Good Guy's Media & Music
DK-2860 Søborg, Denmark
www.reusseffects.com