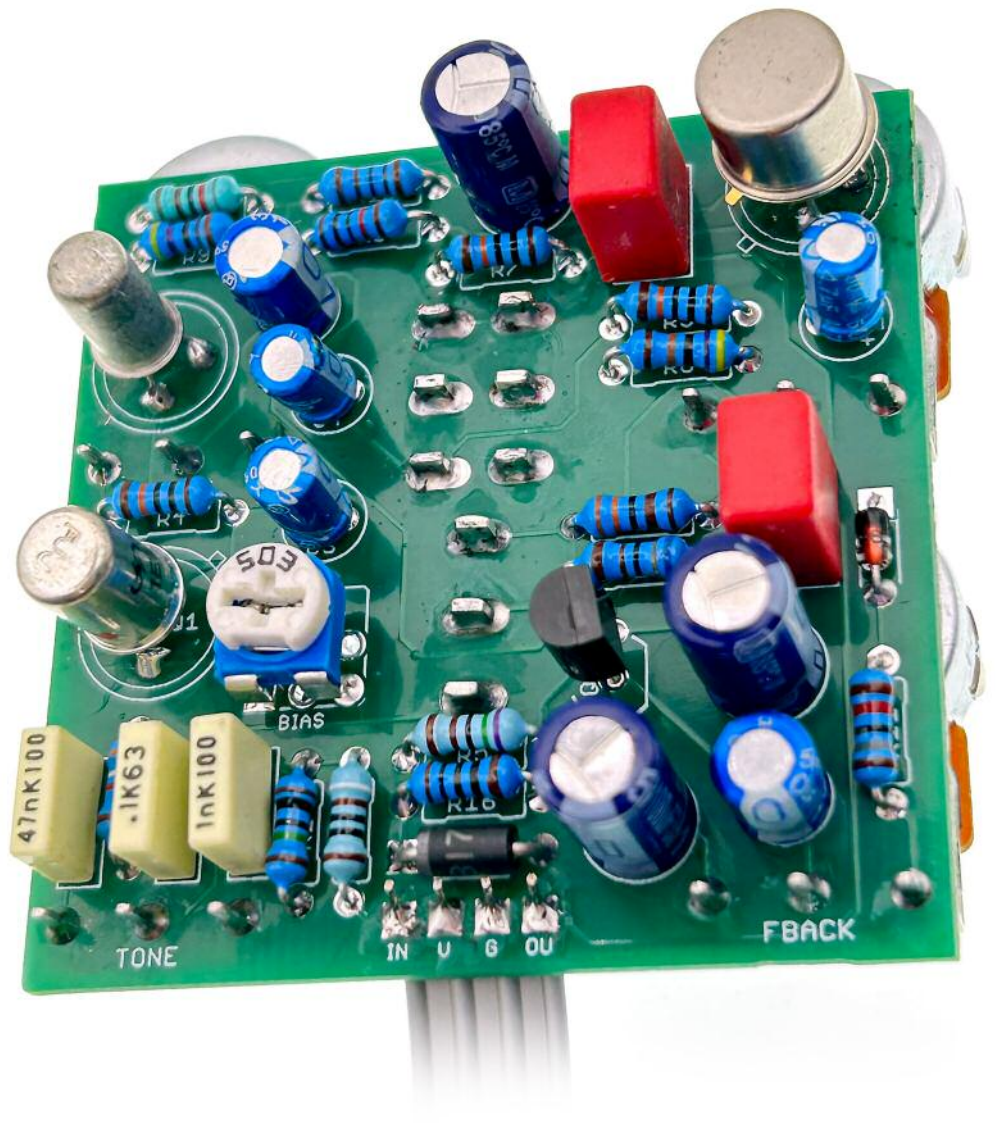




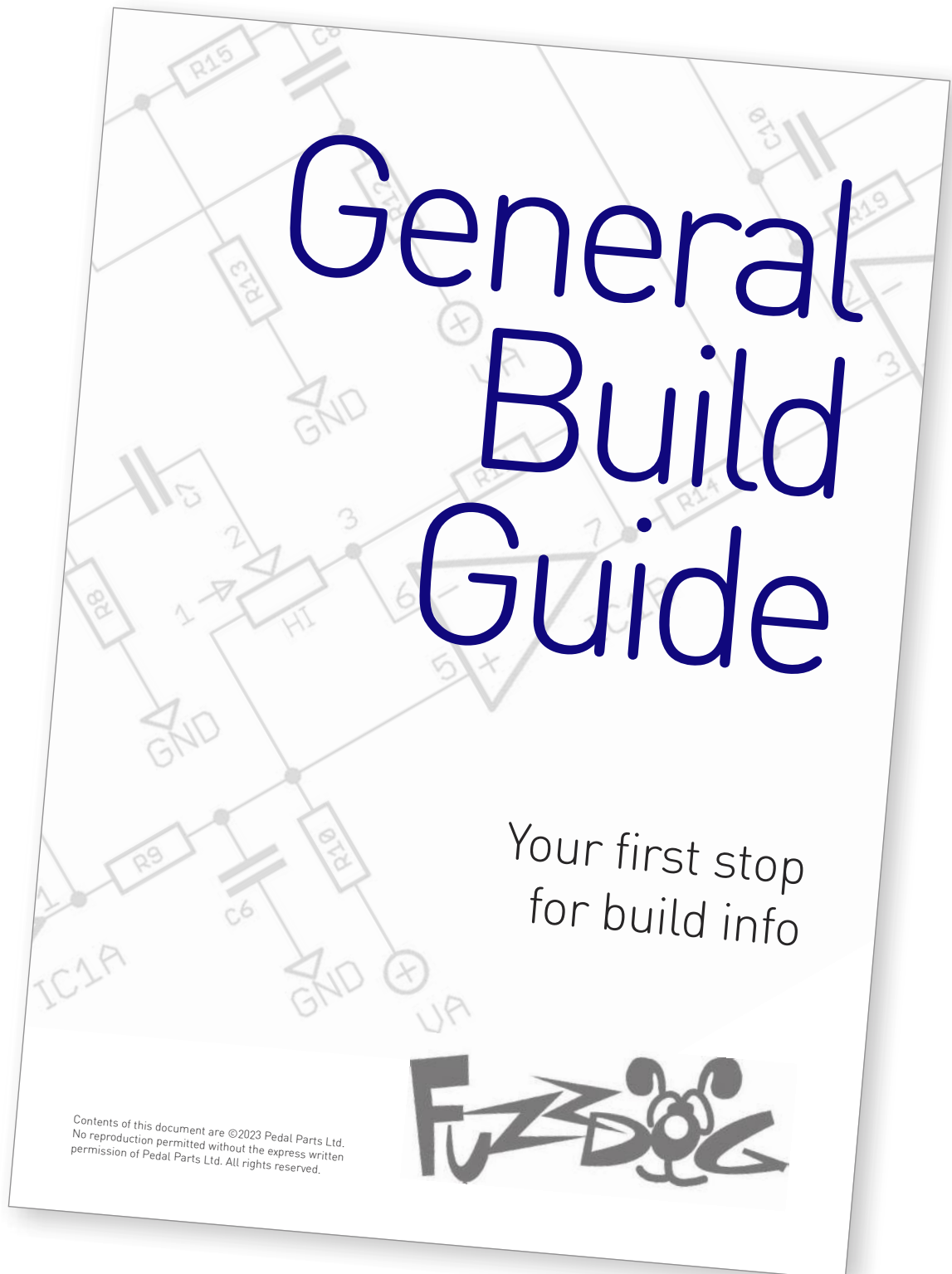
Necropolis

Lots of Tone Bender flavours
at your fingertips

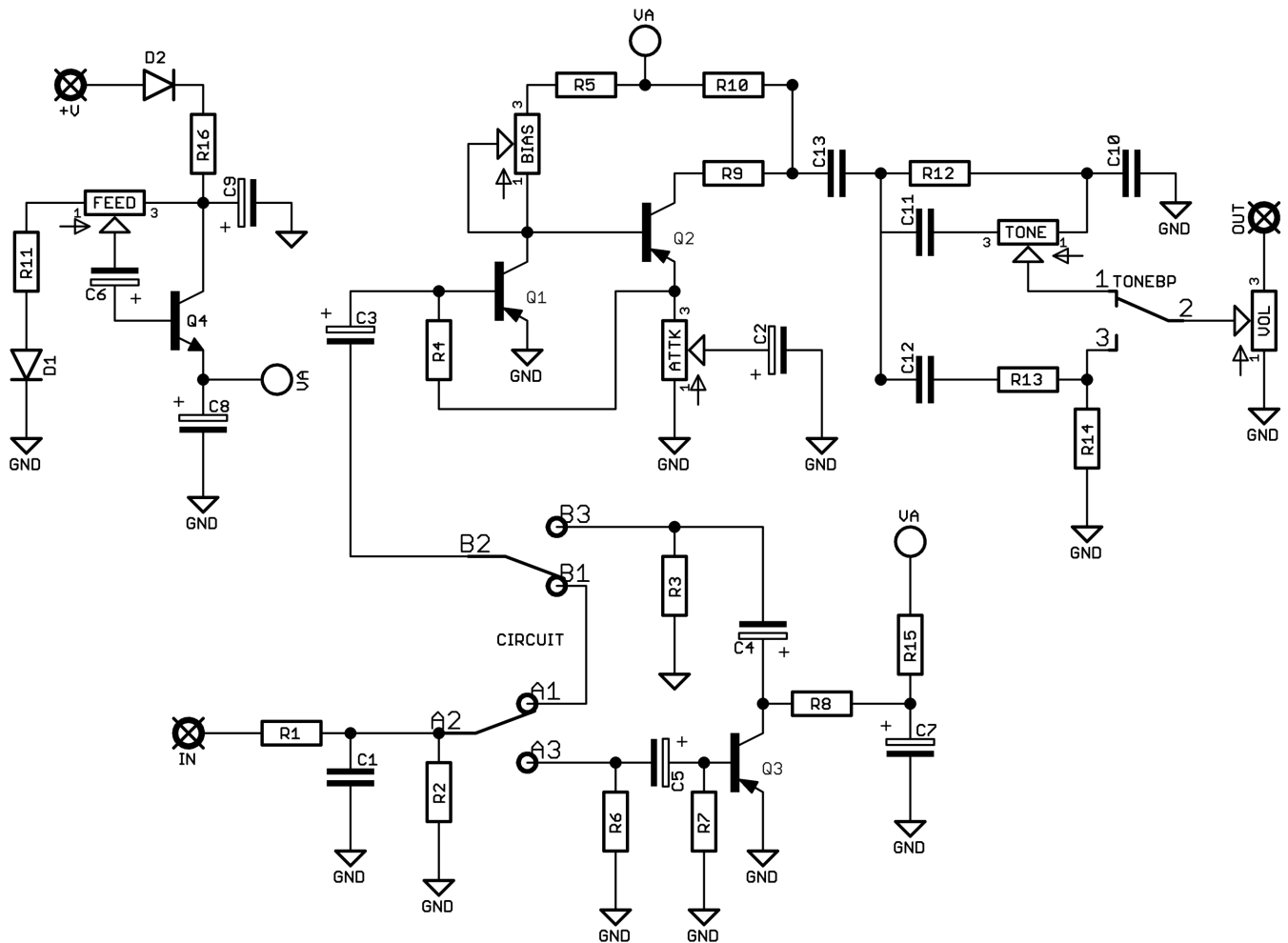


Before you dig in, ensure you download and read the **General Build Guide**.

It contains all the information you need for a successful outcome.



Schematic + BOM



R1 910R
 R2 10M
 R3 100K
 R4 100K
 R5 7K5
 R6 470K
 R7 100K
 R8 10K
 R9 470R
 R10 8K2
 R11 18K
 R12 3K9
 R13 3K3
 R14 6K8
 R15 1K

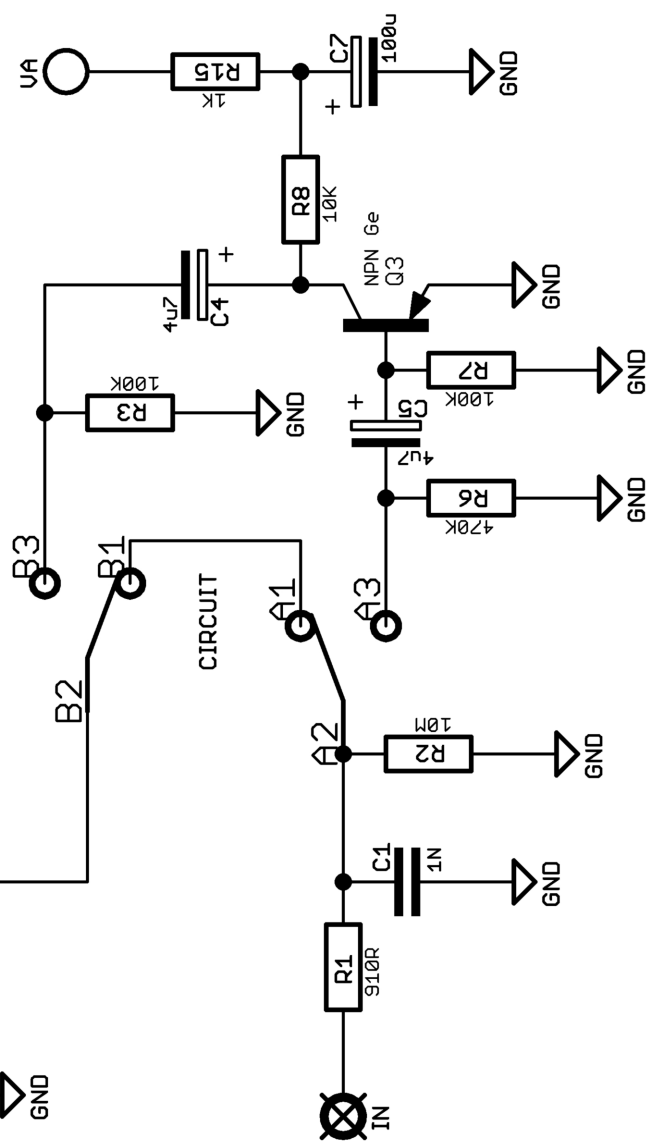
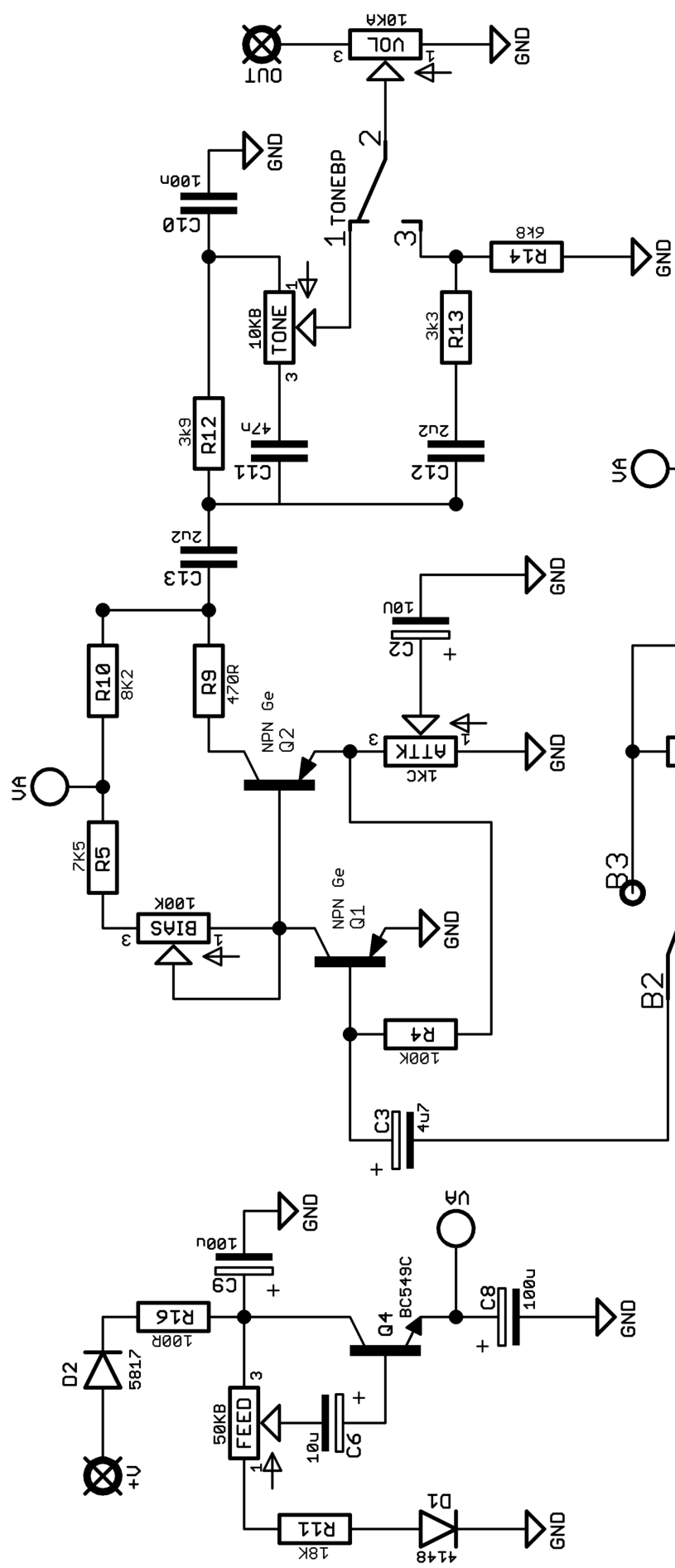
C1 1n
 C2 10u elec
 C3 4u7 elec
 C4 4u7 elec
 C5 4u7 elec
 C6 10u elec
 C7 100u elec
 C8 100u elec
 C9 100u elec
 C10 100n
 C11 47n
 C12 2u2
 C13 2u2

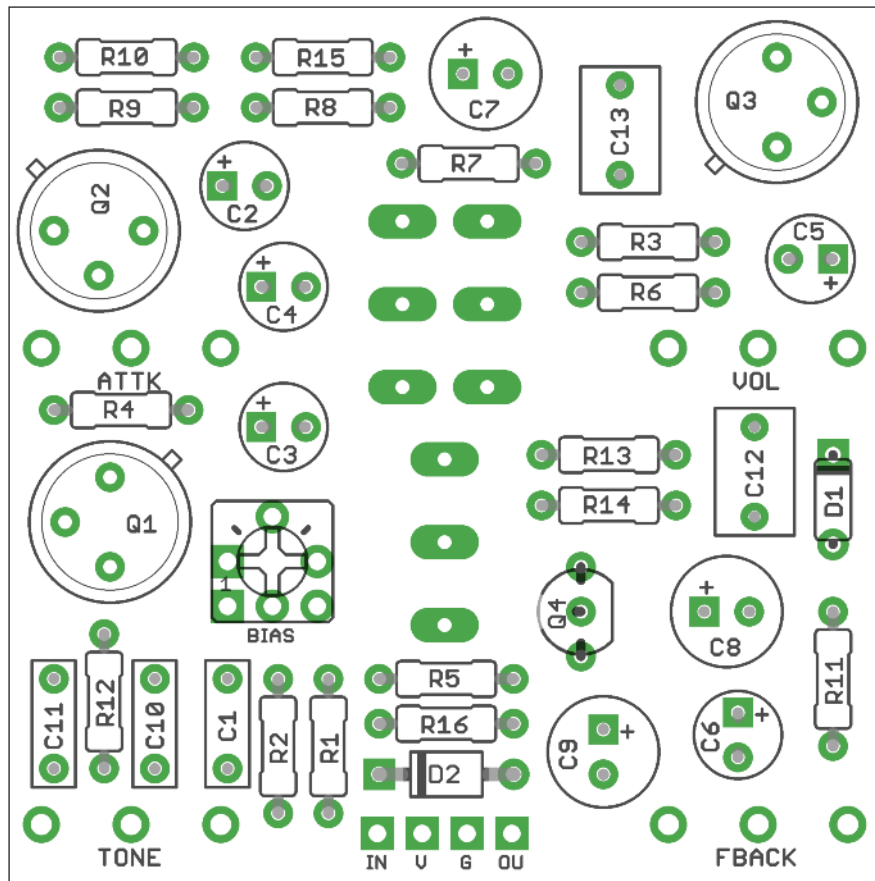
D1 1N4148
 D2 1N5817
 Q1 NPN Ge <>70hFE
 Q2 NPN Ge <>120hFE
 Q3 NPN Ge <>50hFE
 Q4 BC549C

BIAS 100K trimmer

ATTACK 1KC
 FEED 50KB
 TONE 10KB
 VOL 10KA

CIRCUIT DPDT ON-ON
 TONE BP SPDT ON-ON





Snap the small metal tags off the pots so they can be mounted flush in the box.

You should solder all other board-mounted components before you solder the pots.

Once they're in place you'll have no access to much of the board.

SWITCHES

Circuit DOWN takes Q3 out of the circuit, giving you Mk 1-1.5.

Tone DOWN is tone bypass.

We labelled the FEED control FBACK by mistake. This controls the voltage hitting the circuit. Fully CW is your full 9V.

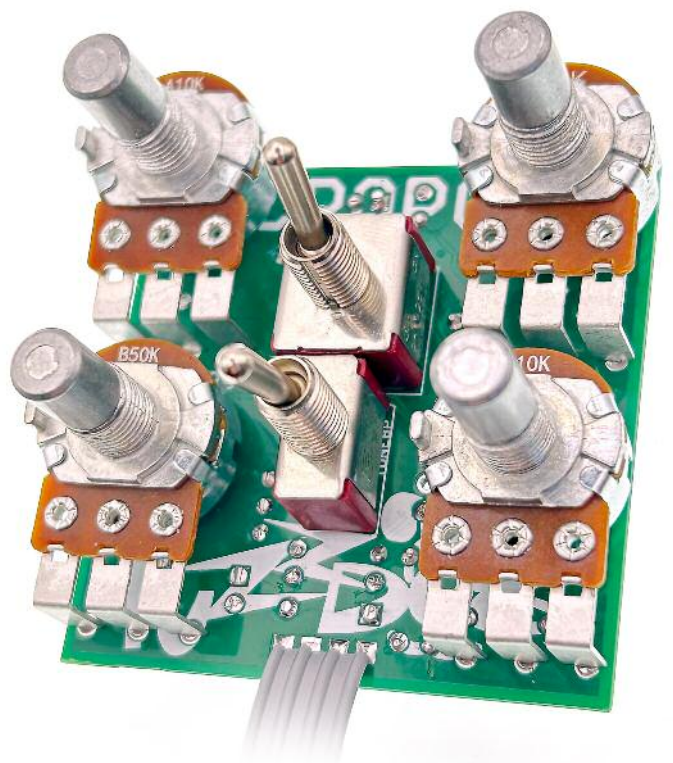
BIASING

Don't get too hung up on numbers. A typical Tone Bender MkII will have around 7-8V on the collector of Q2 (Q1 on this board). Turn the FEED and FUZZ pots fully up, and adjust your trimmer until you get the fuzz you're looking for. Flip the upper toggle switch to kick Q3 in and out of the circuit and compare fuzz tones. Tweak until you get the balance right. There are no rules. Once you start turning the FEED pot down you're reducing the voltage, so things are going to change anyway.

TONE BYPASS

This is a second footswitch on the original, but we question how useful that'd be on the fly in real-world use so we made it a toggle to keep this in a useable 1590B.

If you want to make it a footswitch simply wire the three switch pads to one column of a DPDT or 3PDT footswitch.



Drilling template

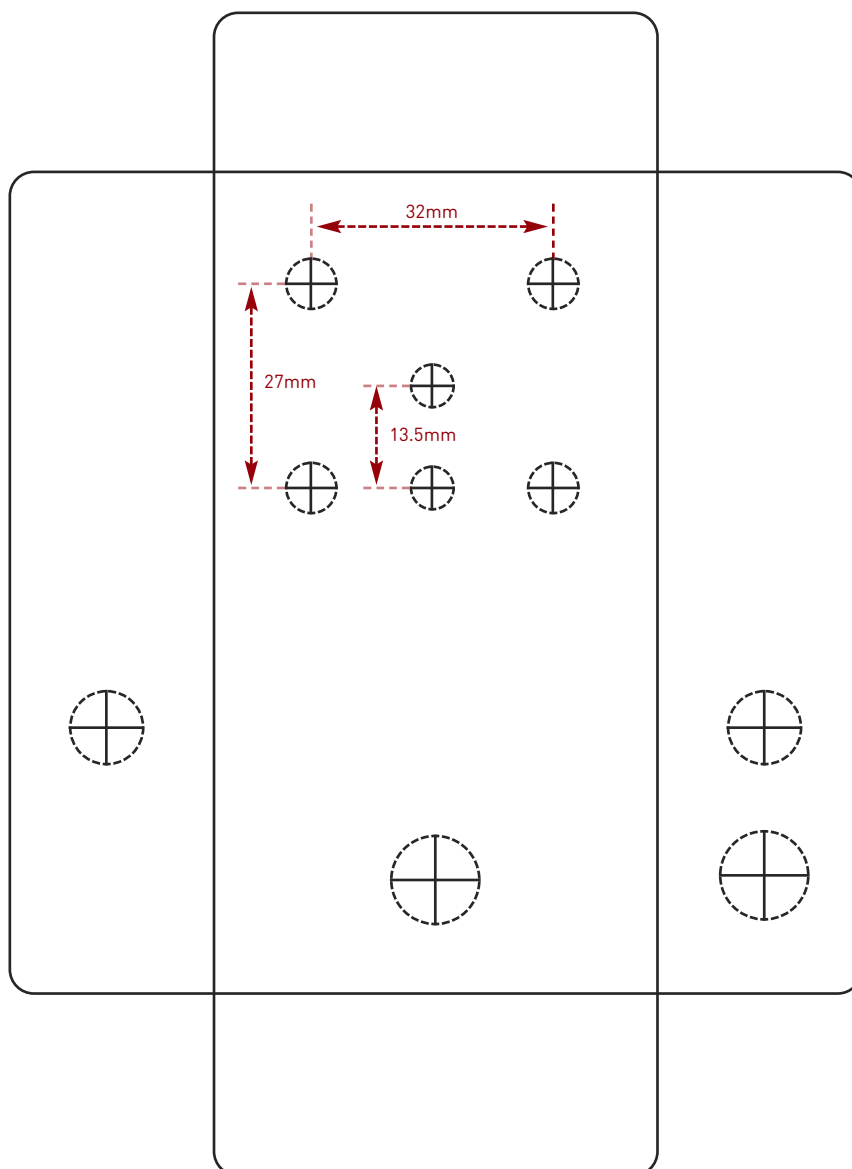
Hammond 1590B - 60 x 111 x 31mm

Drill sizes listed are minimum.

It's a good idea to add 1mm to anything mounted on the PCB that'll poke through the front of the enclosure.

Drill sizes:

Pots	7mm
Jacks	10mm
Footswitch	12mm
DC Socket	12mm
Toggle switches	6mm
Rotary switches	10mm



This template is a rough guide only. You should ensure correct marking of your enclosure before drilling. You use this template at your own risk.

Pedal Parts Ltd can accept no responsibility for incorrect drilling of enclosures.

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