

Verb Machine (Feedback Modded)

A big box of semi-controlled
noise-making chaos

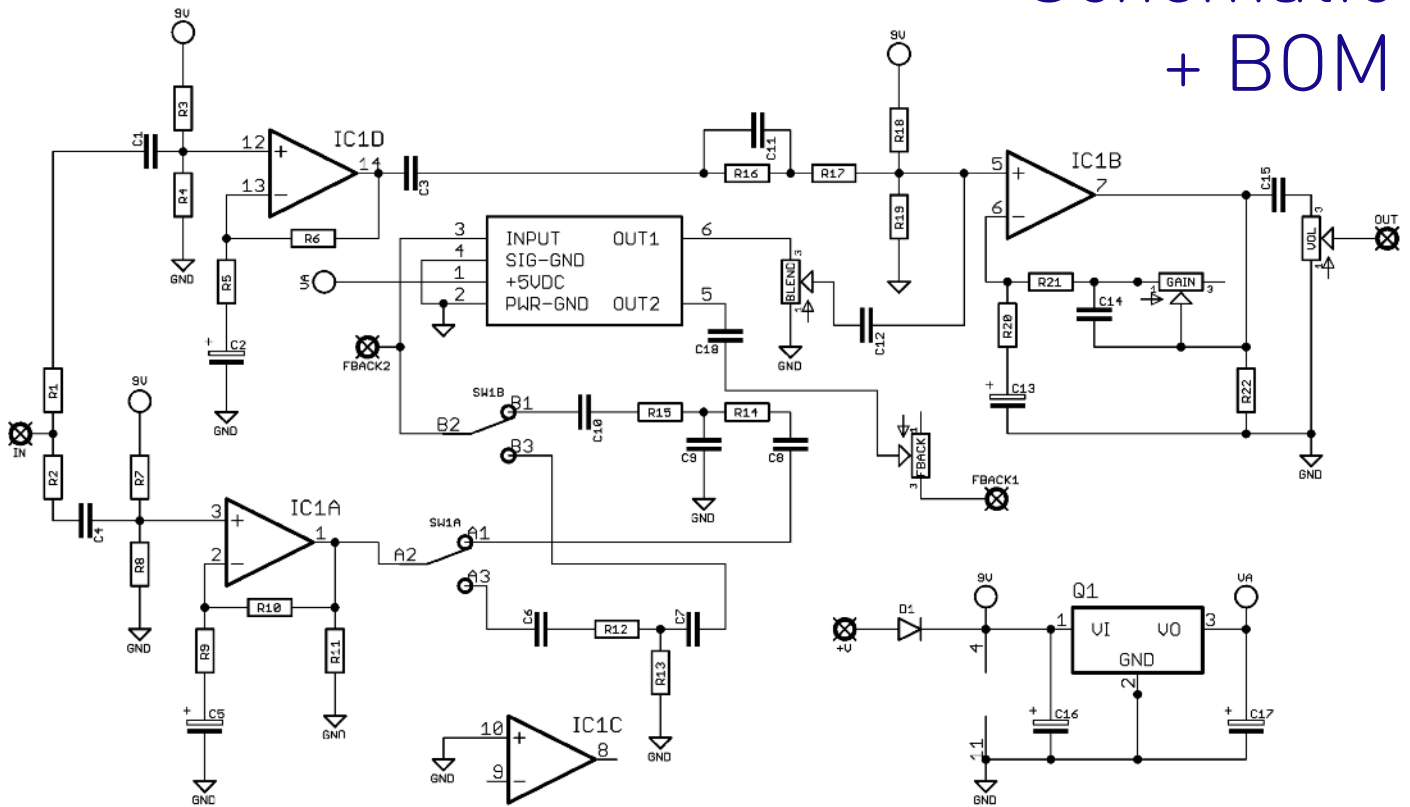


Before you dig in, ensure you download and read the **General Build Guide**.

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



Schematic + BOM



R1	100K
R2	10K
R3	1M
R4	1M
R5	10K
R6	22K
R7	1M
R8	1M
R9	10K
R10	100K
R11	100K
R12	1-10K*
R13	1K
R14	39K
R15	39K
R16	1M
R17	6K8
R18	1M
R19	1M
R20	10K
R21	68K
R22	100K

C1	33n
C2	1u elec
C3	100n
C4	10n
C5	1u elec
C6	100n
C7	4n7
C8	220n
C9	33n
C10	220n
C11	470p
C12	10n
C13	1u elec
C14	470p
C15	220n
C16	100u elec
C17	100u elec
C18	220n†

IC1	TLC27M4AiN**
Q1	78L05 Regulator

D1	1N5817
BLEND	10KA
FBACK	100KC
GAIN	1MC
VOL***	100KA
SW1	DPDT ON-ON

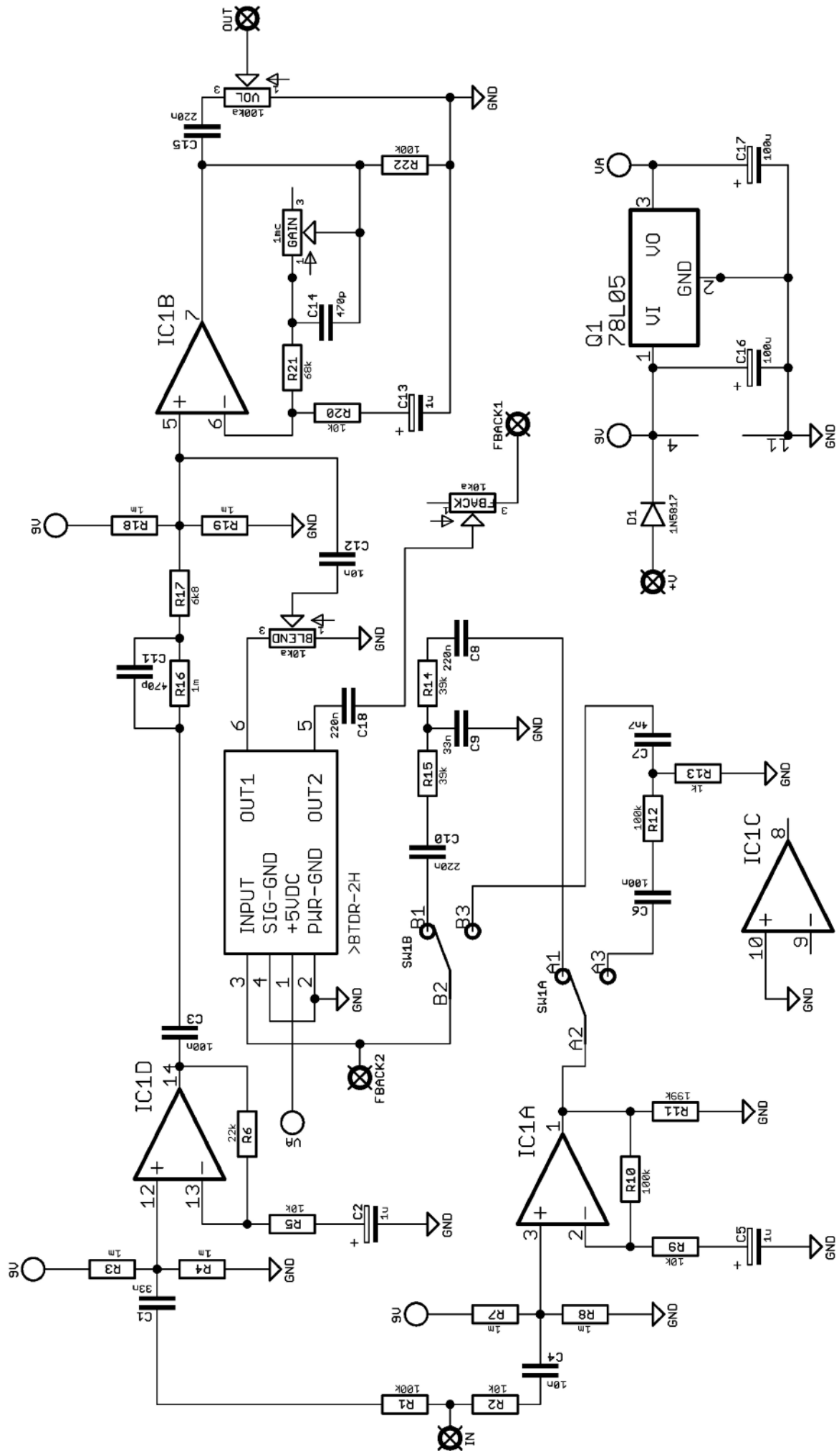
*R12 is listed as 100K on the trace schematic. The Sunshine tone setting sounds wrong with this value. Something between 1-10K is best - we recommend 4K7. Smaller = brighter.

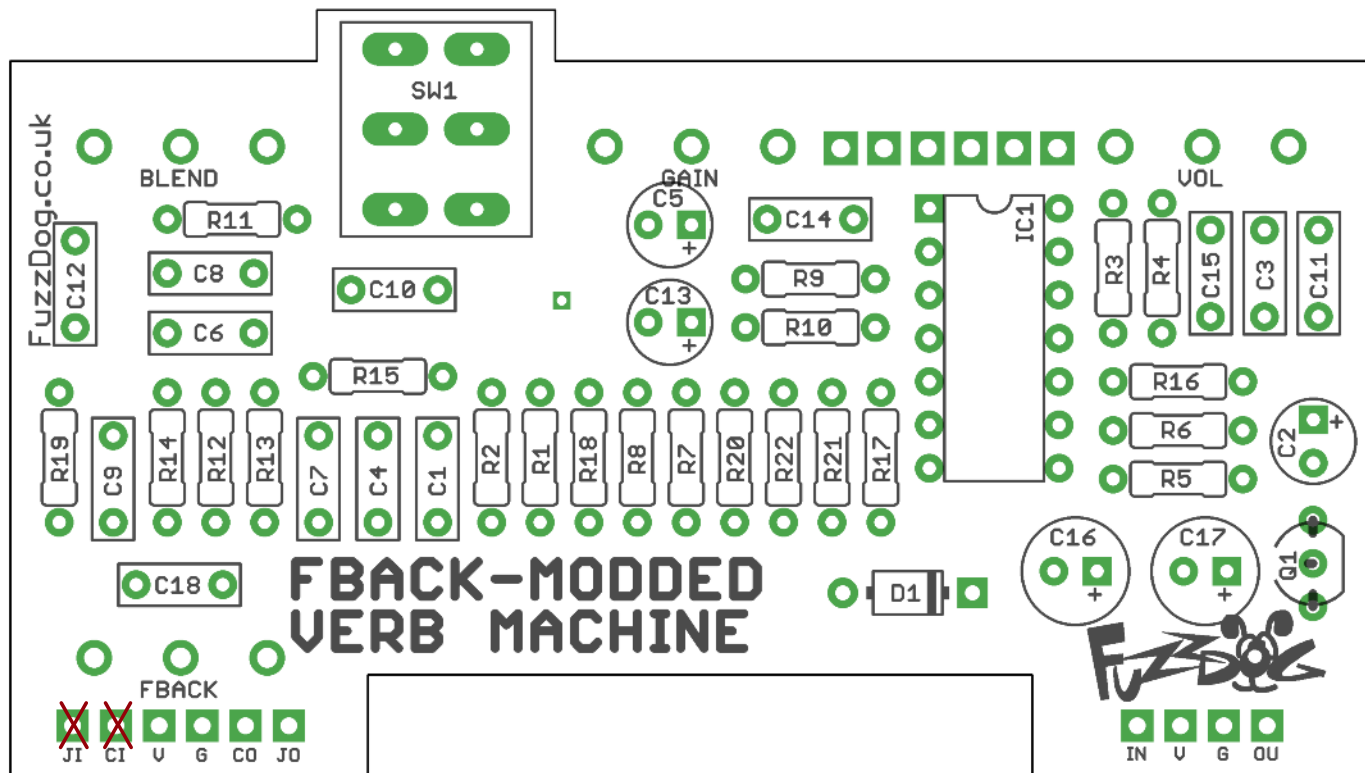
**Other quad op-amps will work just fine.

***We've connected the volume in a more sensible way than the original.

†Use a smaller value cap if you want to limit the feedback frequencies

Reverb brick is
BTDR-2H Long





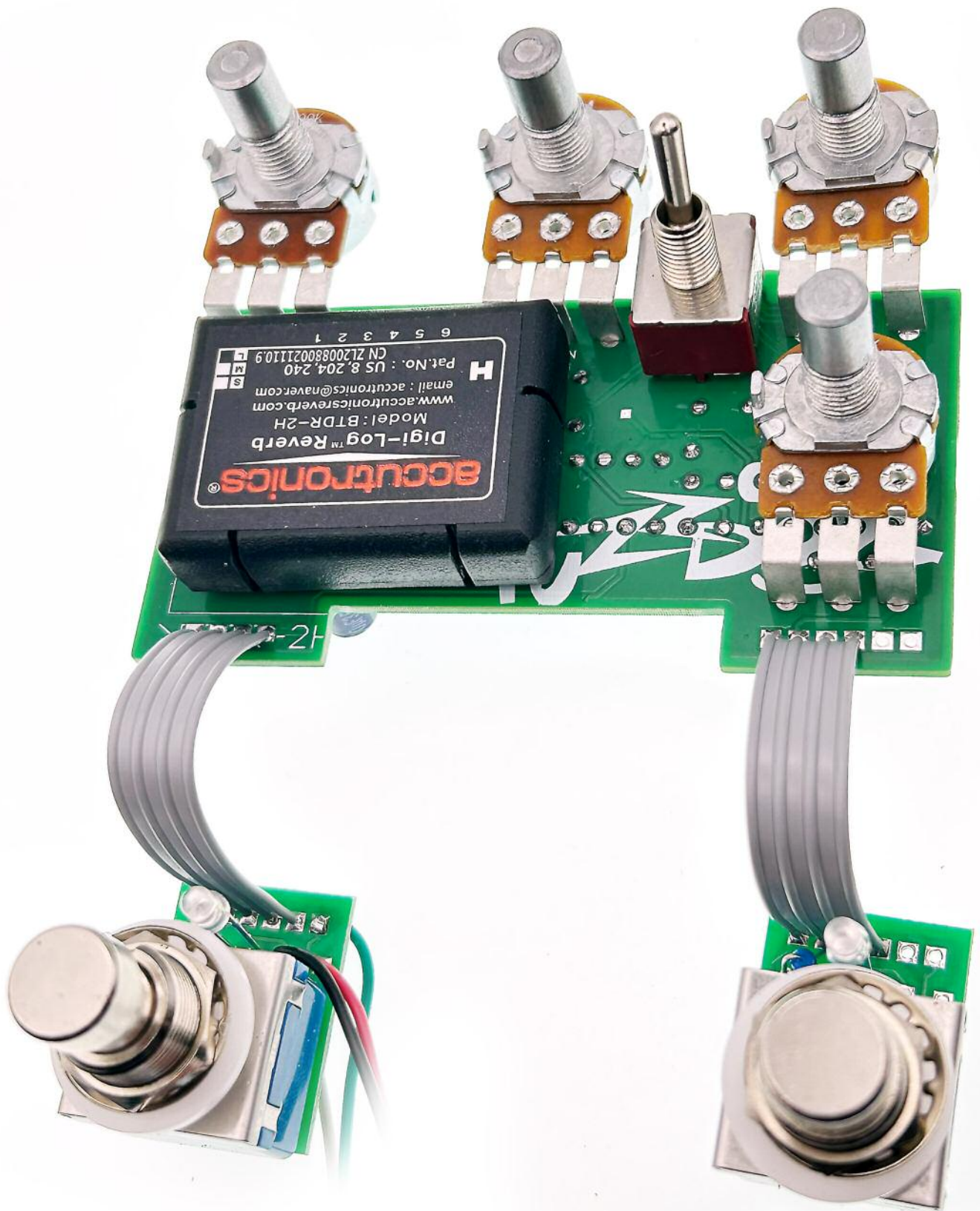
Snap the small metal tag off the pots so they can be mounted flush in the box.

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.

Looking at the component side of the PCB, the right footswitch pads are your main bypass, the left are your oscillation switch.

The JI and CI pads are not connected on the Feedback switch board. They're only included so we could utilise our existing switch boards for this build.

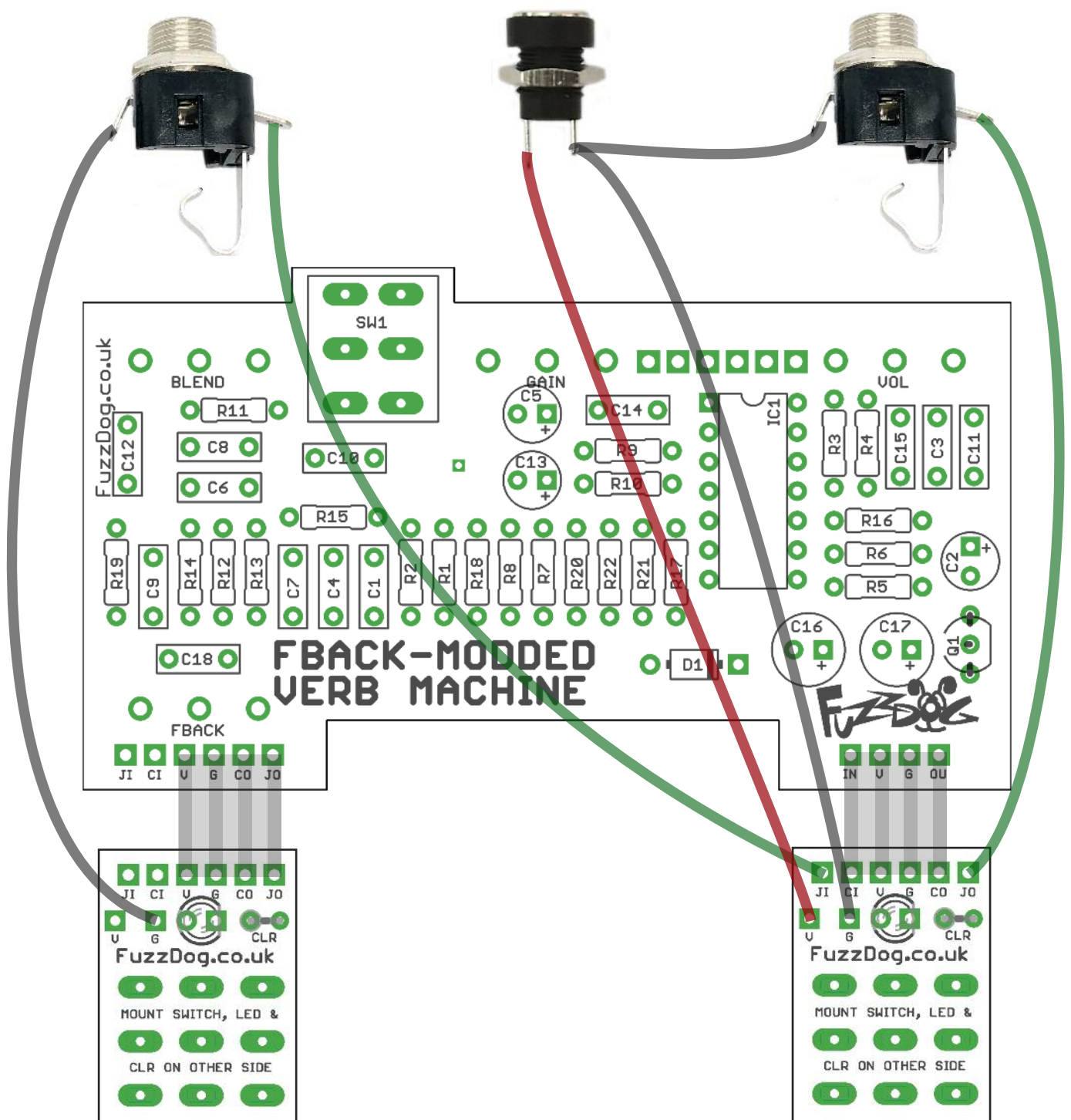


Wiring

with latching 3PDT feedback switch including LED indicator

When the Feedback footswitch is engaged, the C0 pad connects to the J0 pad, completing the circuit.

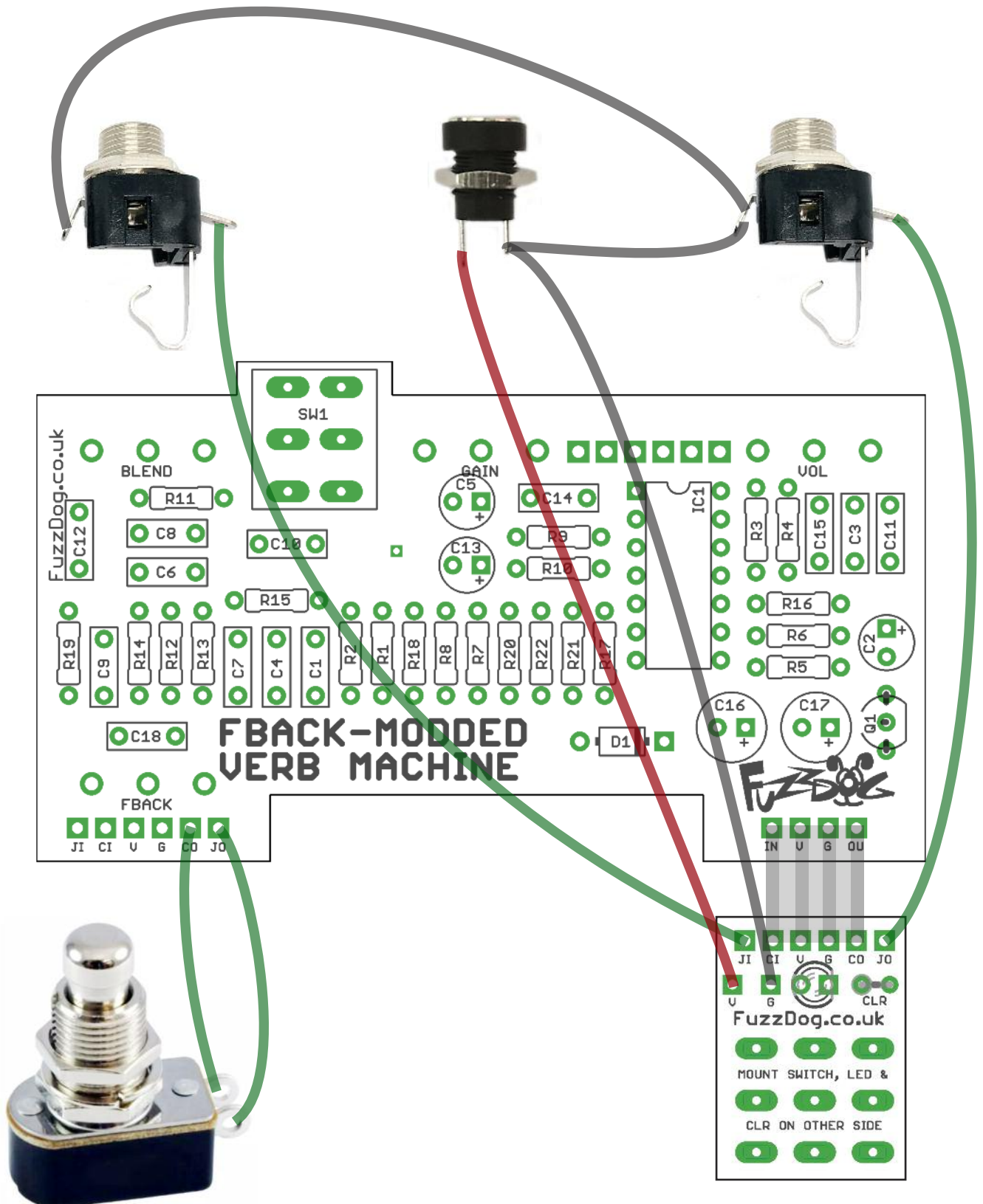
Daisy-chain the grounds or utilise the spare G pad on the Feedback daughterboard.



Wiring

with momentary SPDT feedback switch, no LED indicator

No need for an LED - you know when your foot is on the switch...



Drilling template

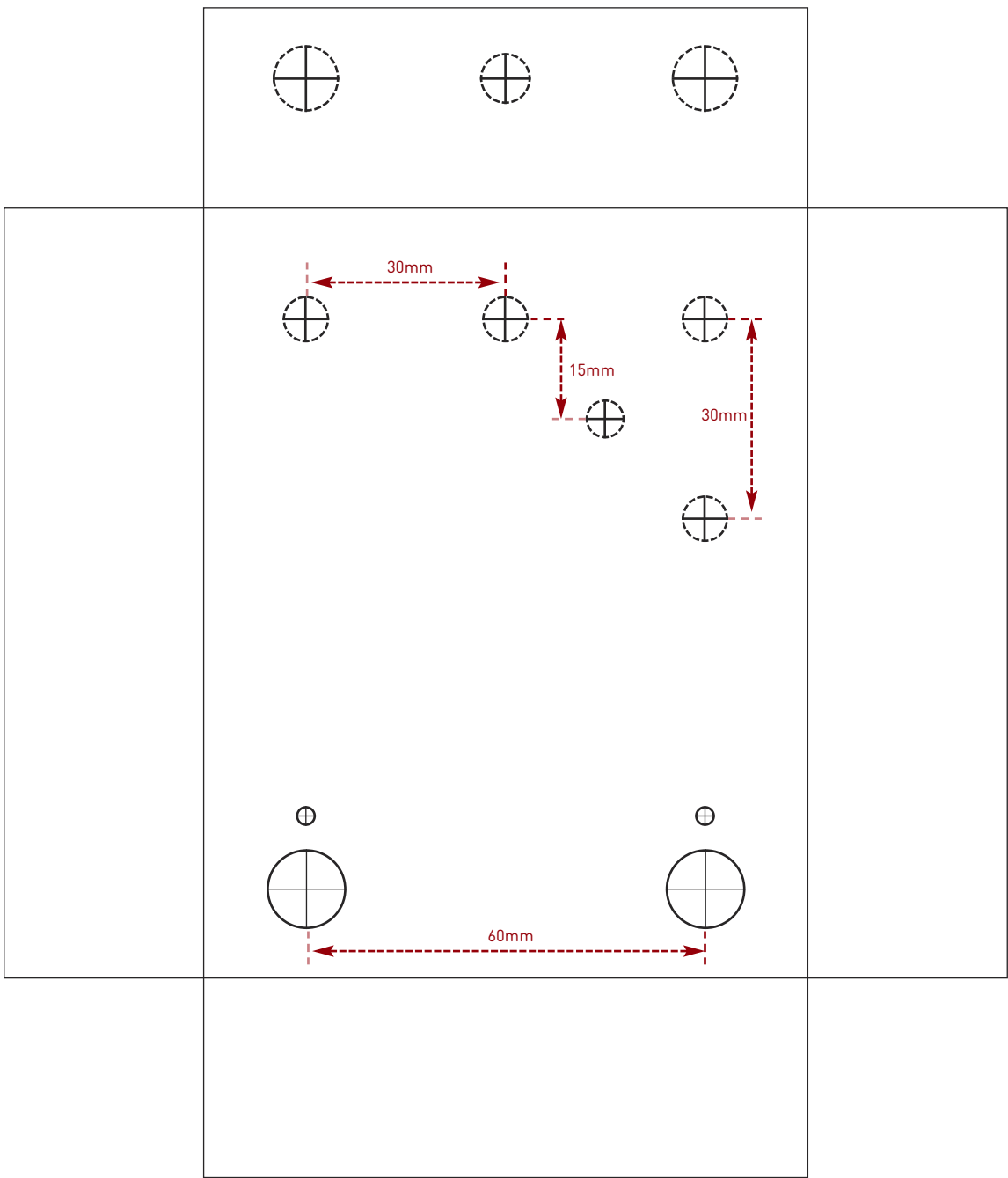
Hammond 1590BB

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.

FuzzDog.co.uk