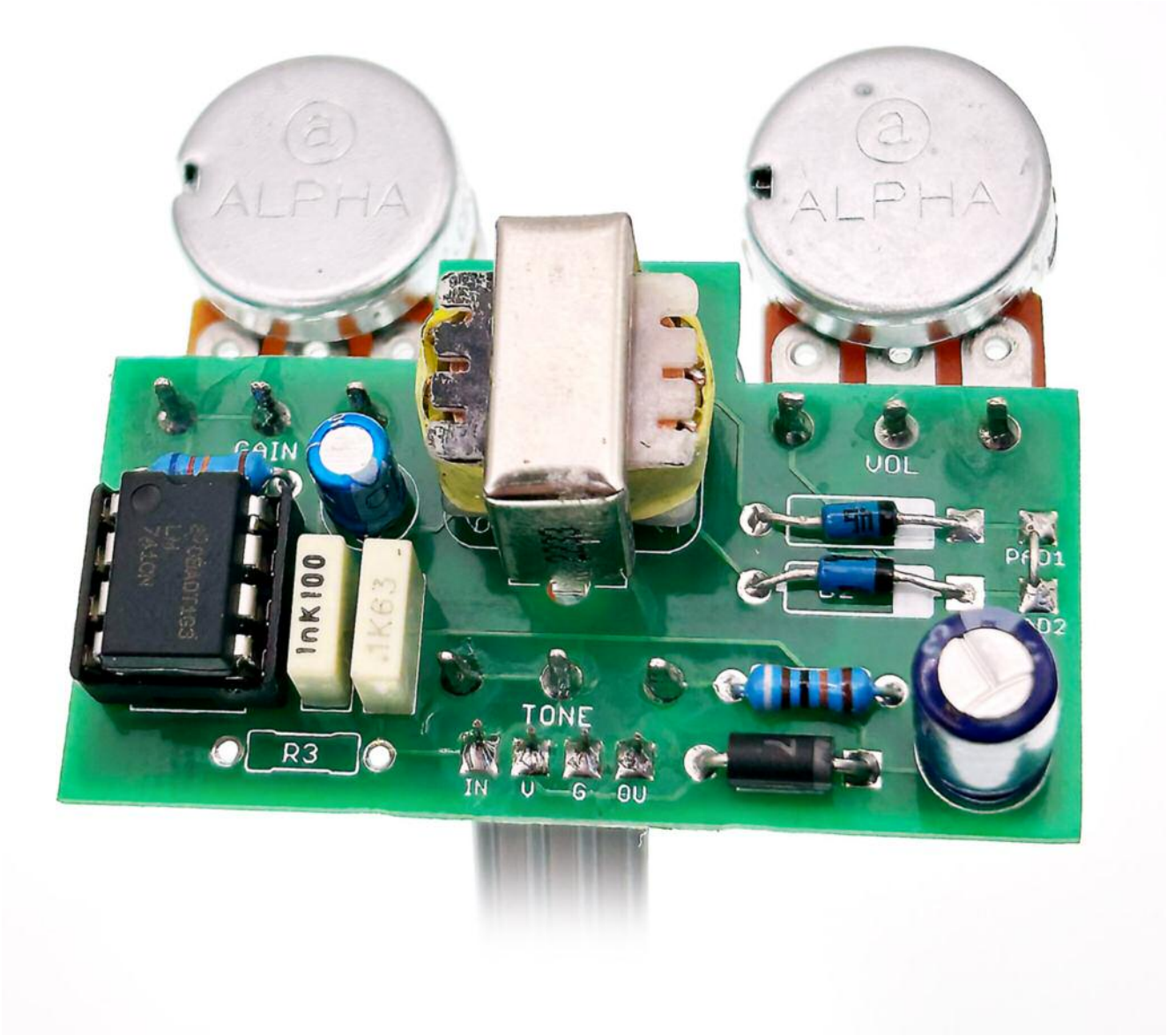

Clank

Sonic mess in a box with pronounced octave-up

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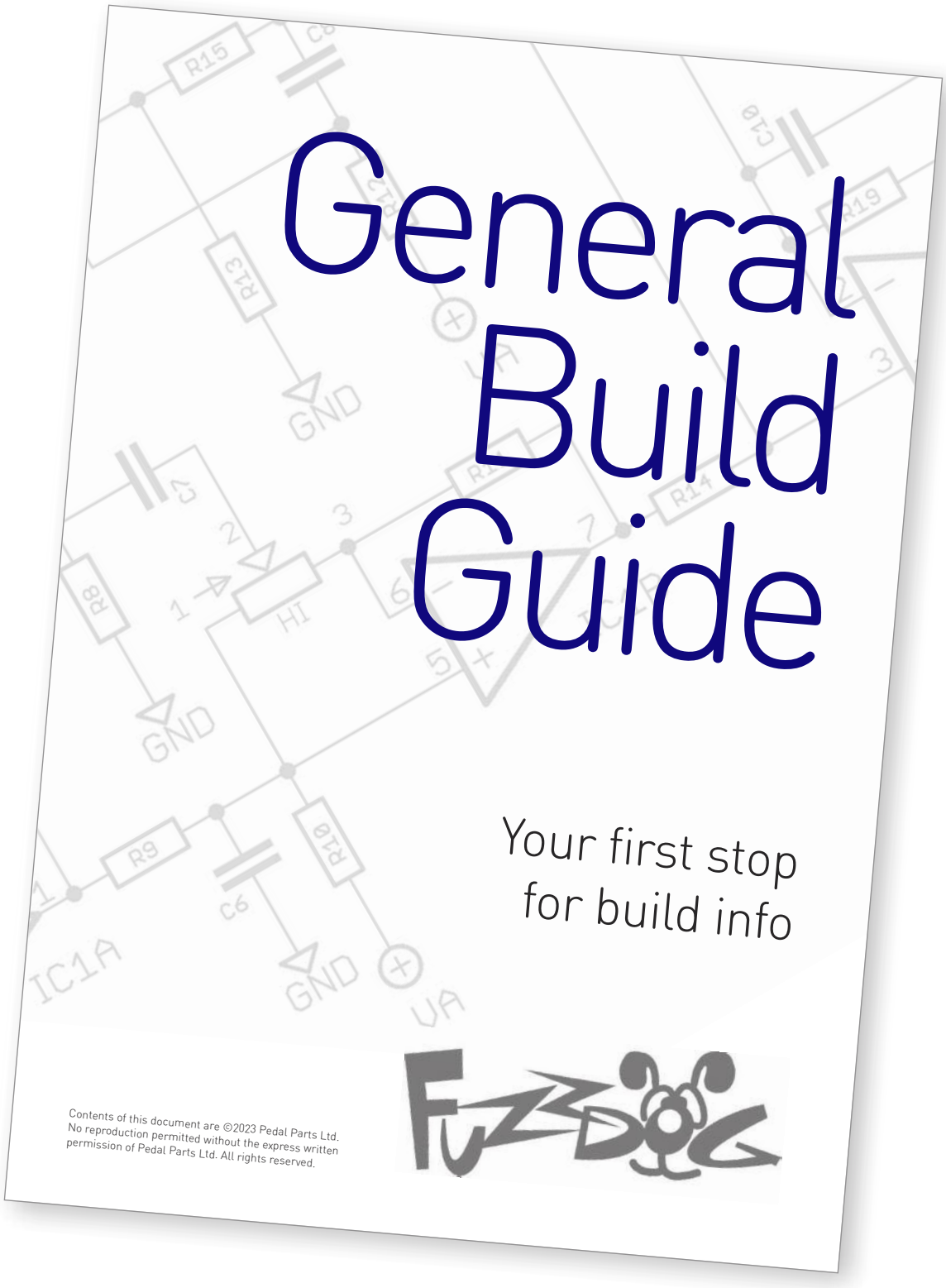
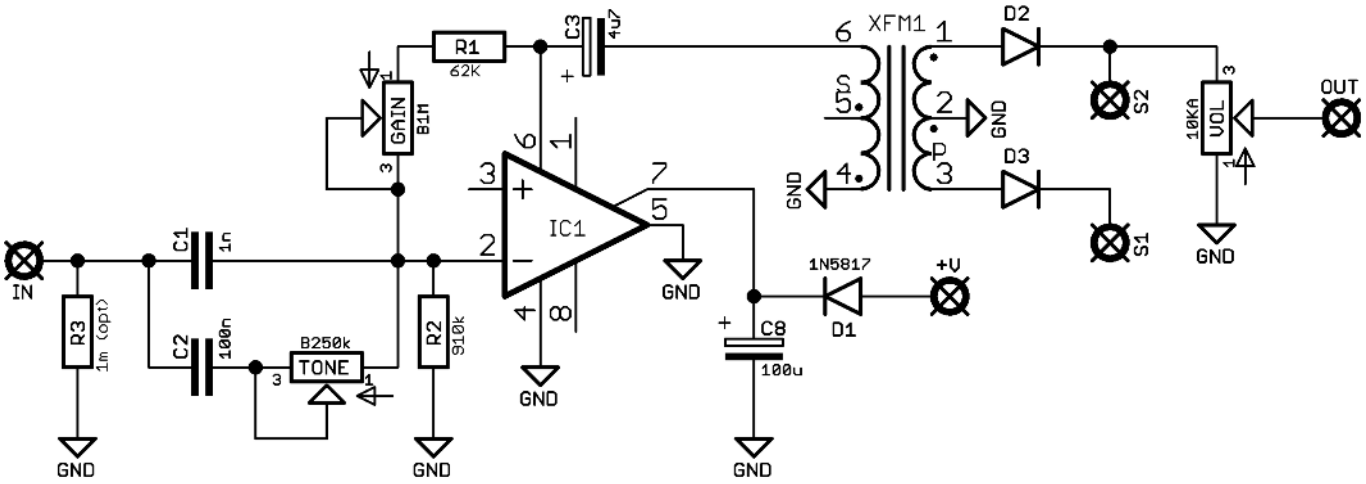
Before you dig in, ensure you download and read the **General Build Guide**.

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



Schematic + BOM



R1	62K
R2	910K
R3	1M (optional)
C1	1n
C2	100n
C3	4u7 elec
C8	100u elec

D1	1N5817
D2-3	Ge / BAT46*
IC1	LM741
XFM1	42TL002
GAIN	1MB
TONE	250KB**
VOL	10KA***

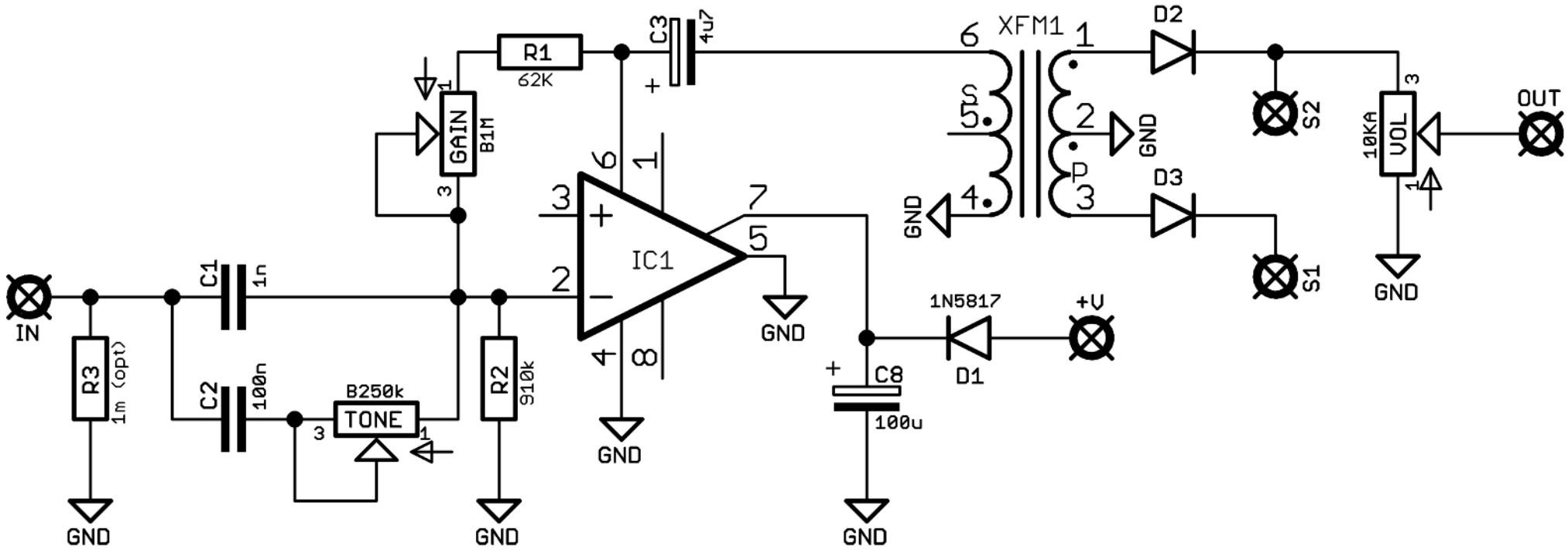
*Original uses germanium diodes, but you'll get the same results with BAT46. Honestly.

**We prefer 250KB, as we found the sounds towards the end of the sweep less useable and preferred more controlled adjustment of the beefier tones. Personal taste.

***We don't like the way they configure their volume controls, so we stick with what we consider 'normal'.

For a standard 'always-on' octave effect wire pads 1-2 together. See page 5.

There's space for an optional 1M pulldown on the input but we didn't experience switch pop without it.


IN
R3
1m (opt)
GND
C1
1n
C2
100n
B250k
TONE
3
1
GND
R1
62K
GAIN
B1M
3
1
R2
910k
GND
C3
4u7
+
IC1
3
2
6
1
7
5
4
8
GND
GND
C8
100u
GND
1N5817
D1
+V
XFM1
6
5
4
S
P
1
2
3
GND
D2
D3
S2
S1
GND
10KA
VOL
3
1
OUT

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

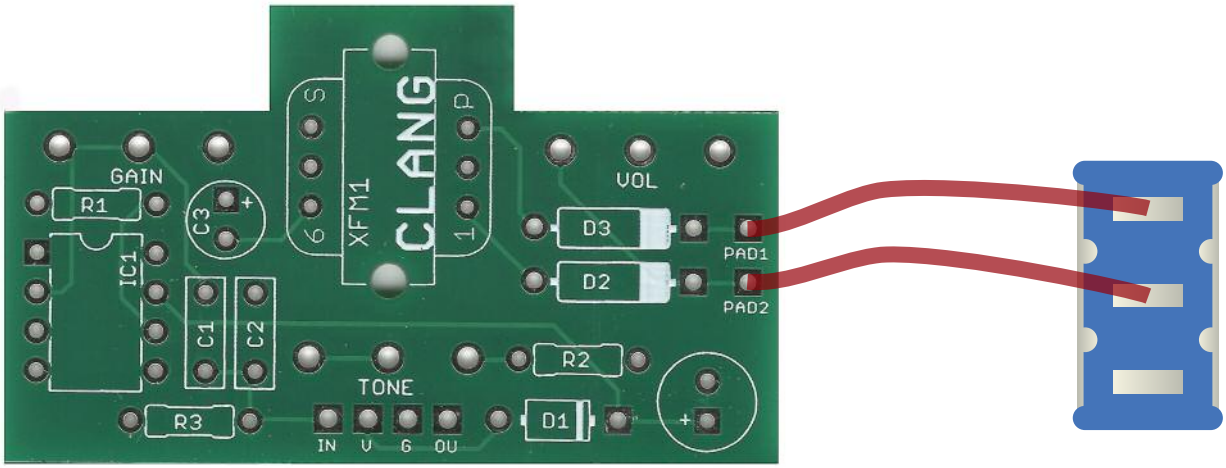
You should solder all other board-mounted components before you solder the pots.

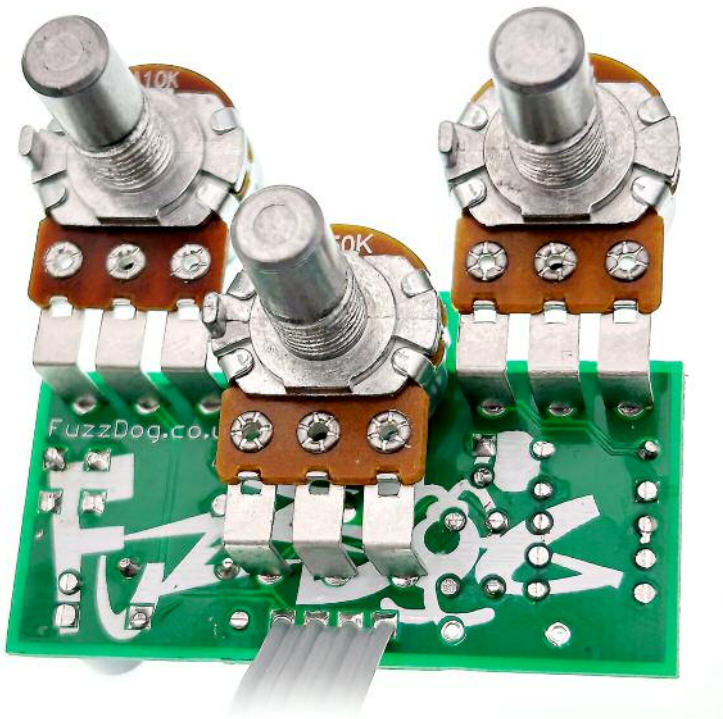
Once they're in place you'll have no access to much of the board.

OCTAVE SWITCH

You can wire the octave on a toggle or footswitch so you can switch it on or off. It's a lot more fun with it on though.

Here's a SPDT ON-ON toggle. For a 3PDT footswitch just use a single column of the three.





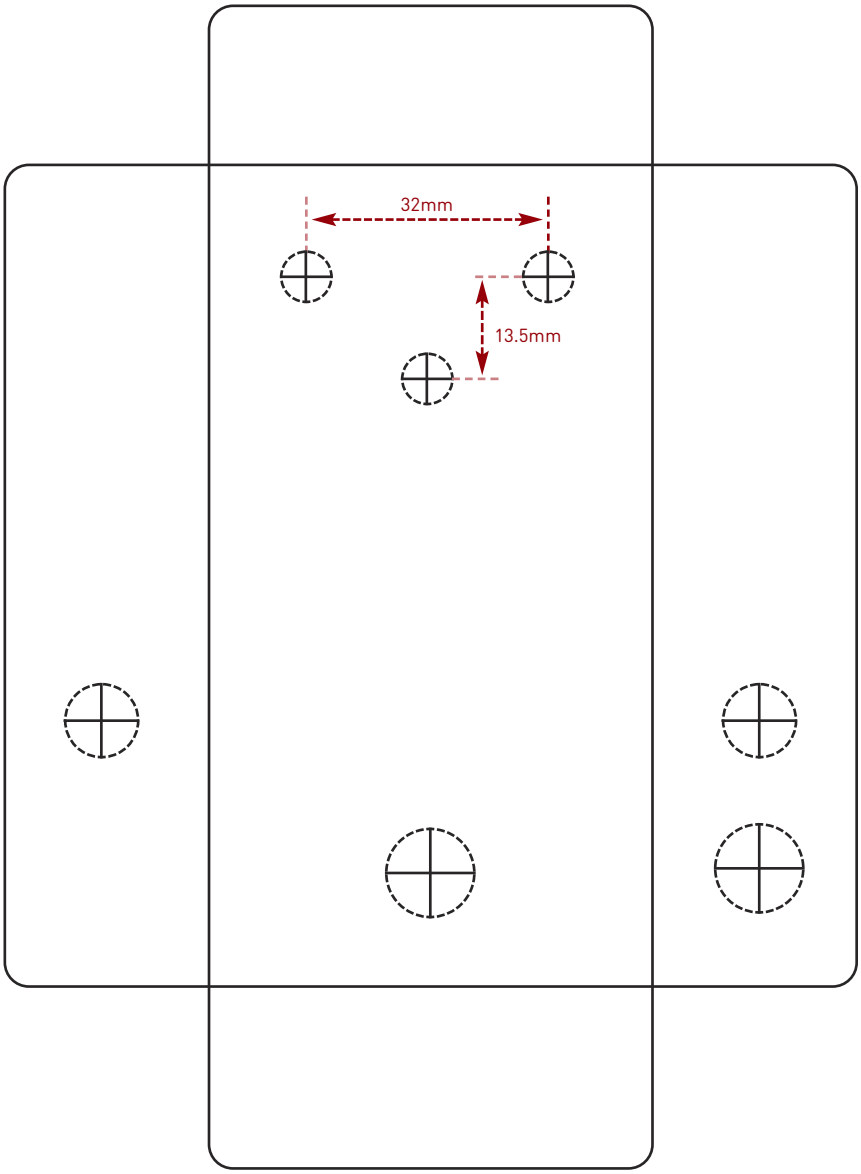
Drilling template

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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