

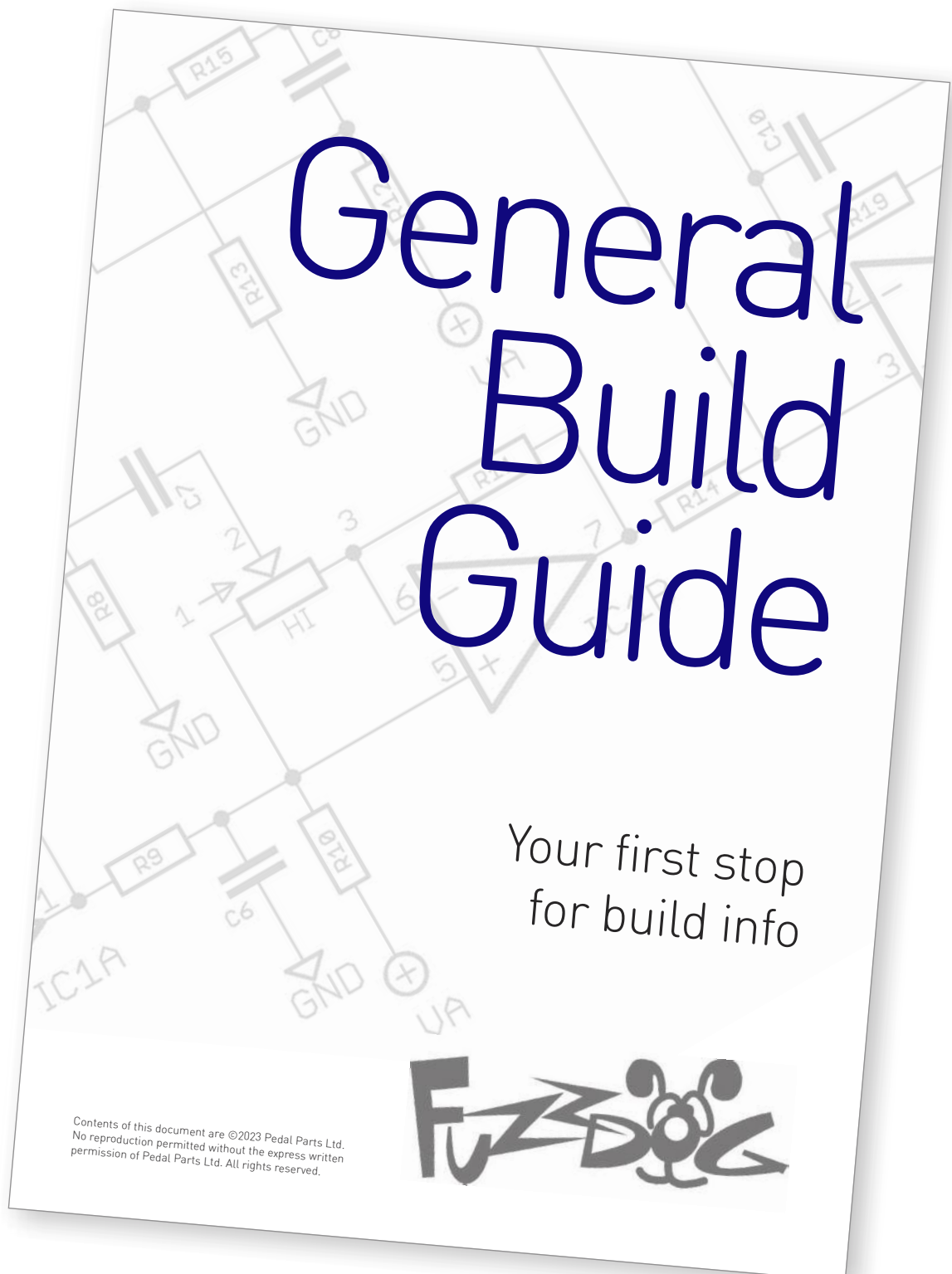
Watchman

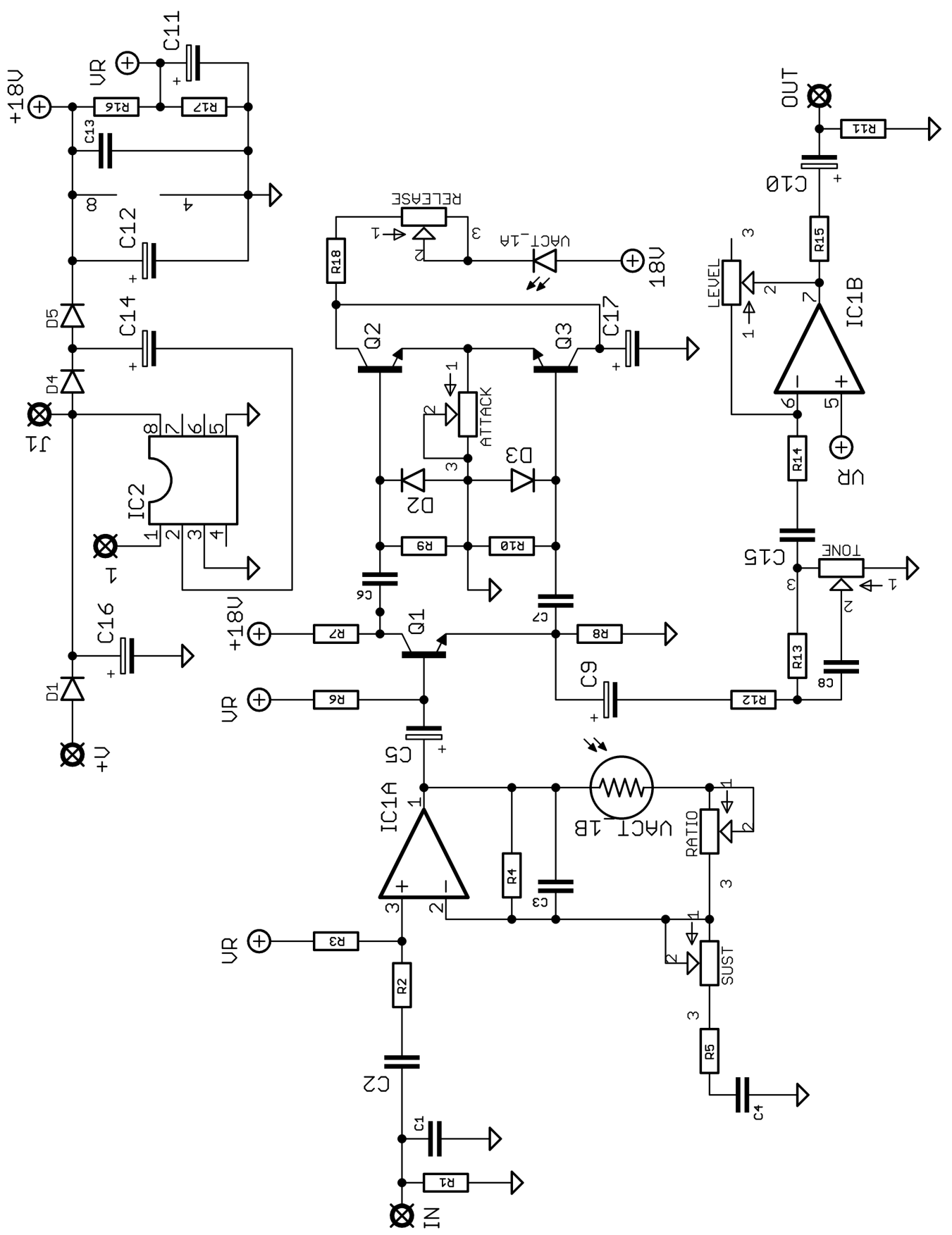
Highly tweakable
optical compressor

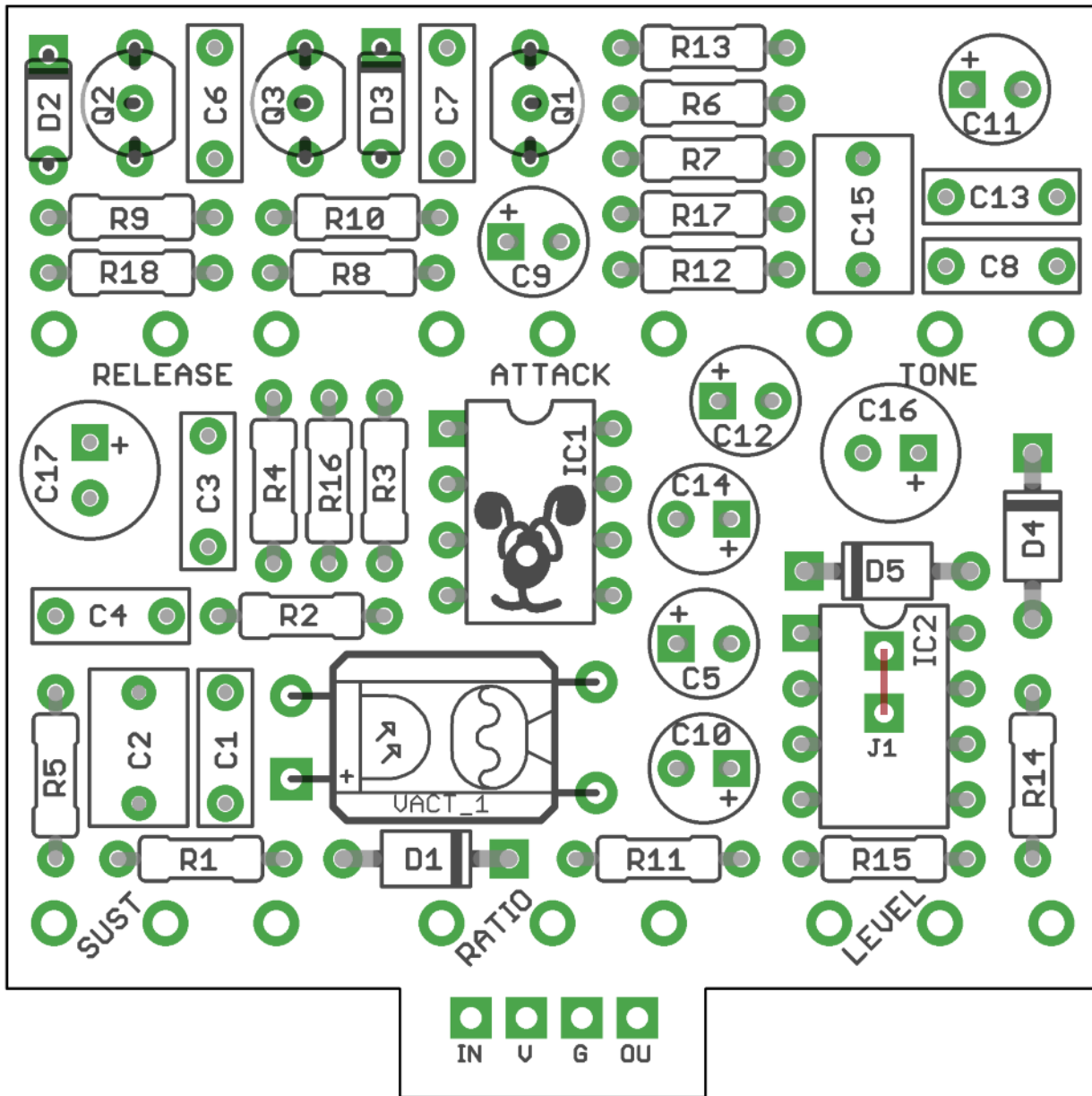


Before you dig in, ensure you download and read the **General Build Guide**.

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







PCB layout ©2023 Pedal Parts Ltd.

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.

CHARGE PUMP

You can use TC7660SEPA, MAX1044S, or LT1054.

The first two require a jumper across the J1 pads beneath IC2, as shown in red above.

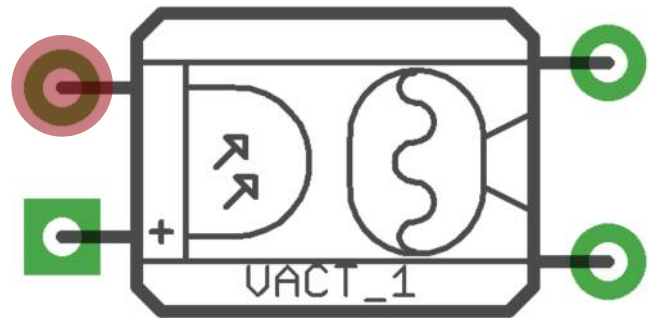
No jumper if using LT1054.



The magic parts...

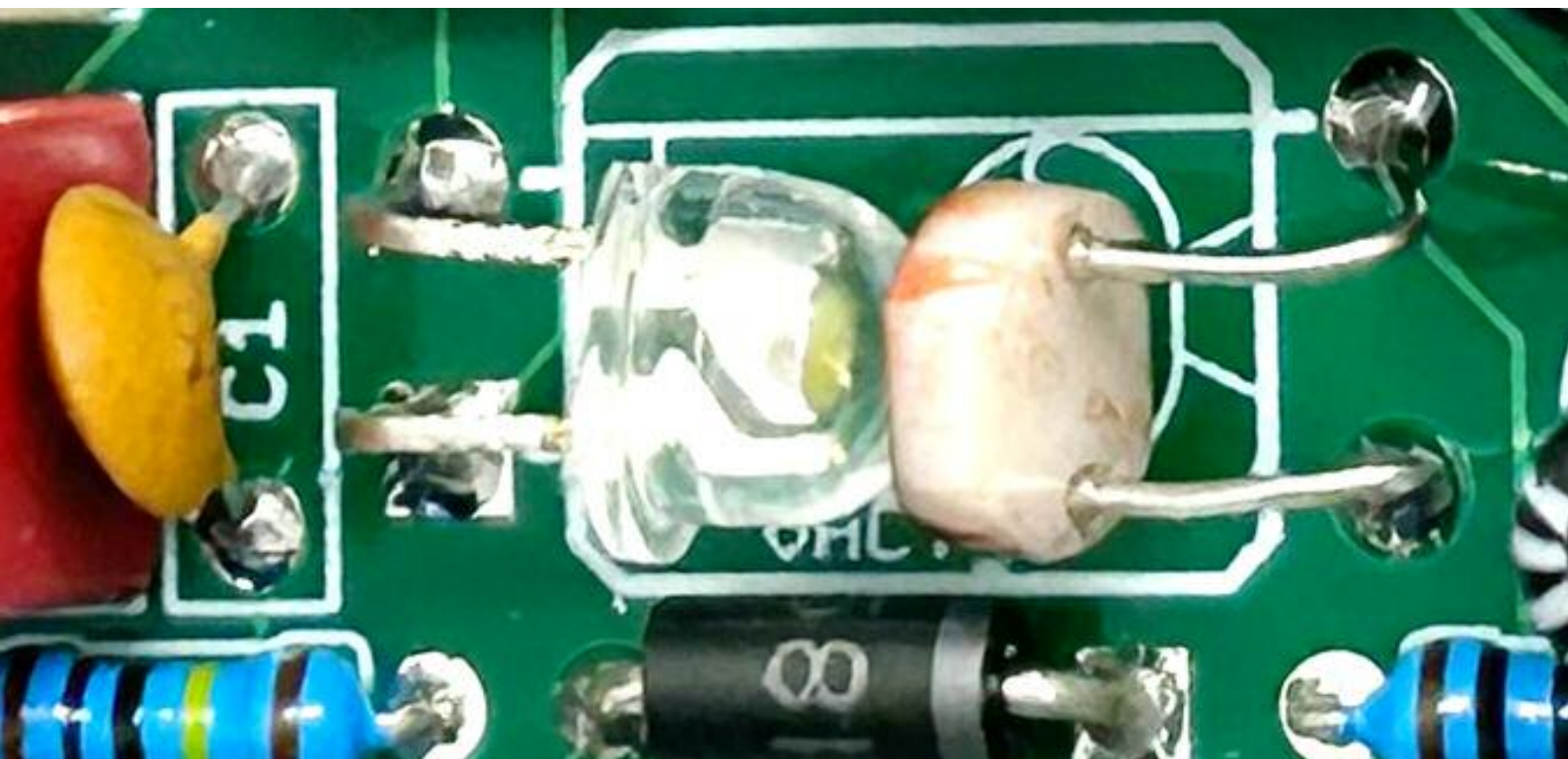
Original units use a GL5516 LDR and white LED. The NSL-32 vactrol has the same 500K dark specification and saves some trouble.

If using a NSL-32, note that the cathode of the LED side is marked with a dot. This goes into the round pad of VACT_1.



If you'd prefer to use the LDR/LED from the original, mount them facing each other as shown. You can wrap them in heat shrink or insulation tape if you like, but once the circuit is boxed up they'll be in the dark anyway.

You'll have to ensure they are covered when testing, otherwise the LDR will pick up light and won't function correctly.



Drilling template

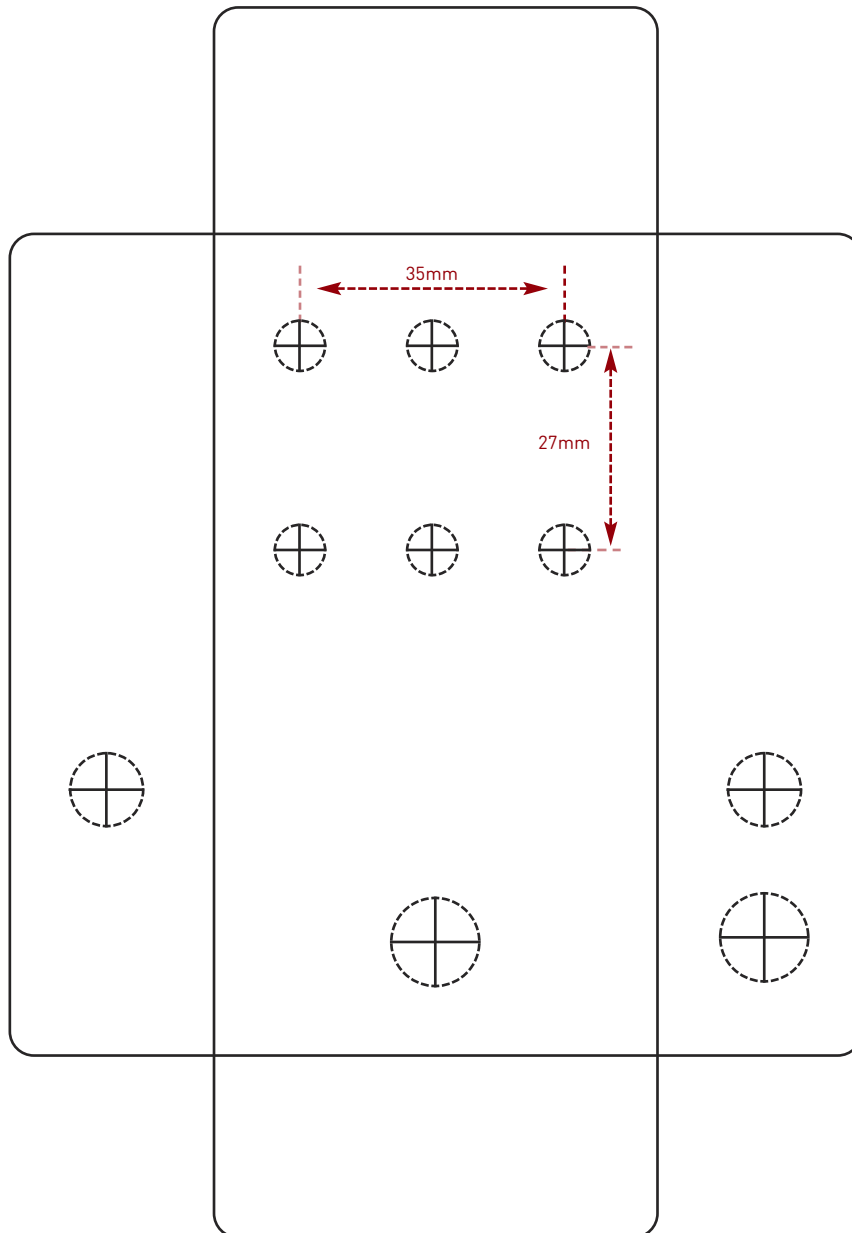
Hammond 1590B - 60 x 111 x 31mm

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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