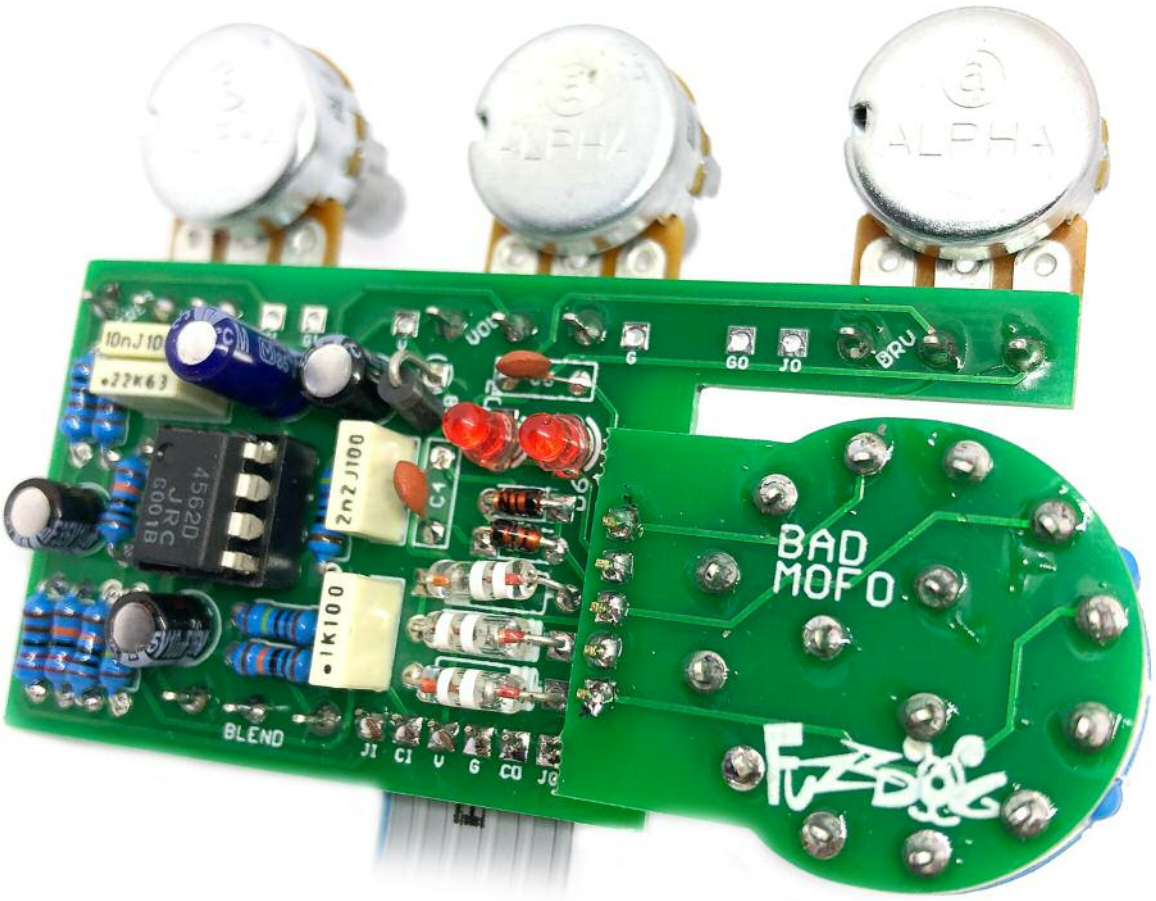
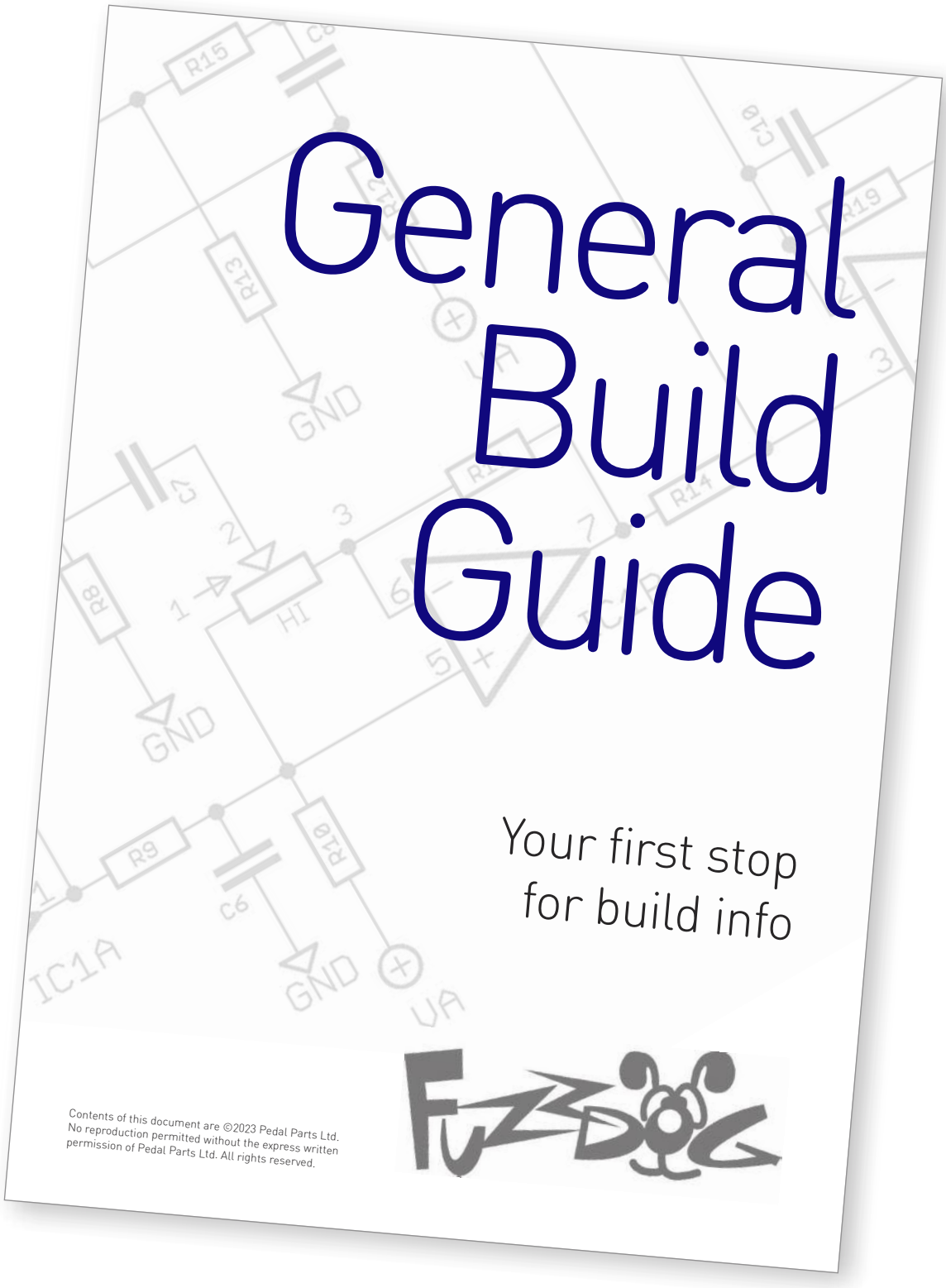


Bad Mofo V2

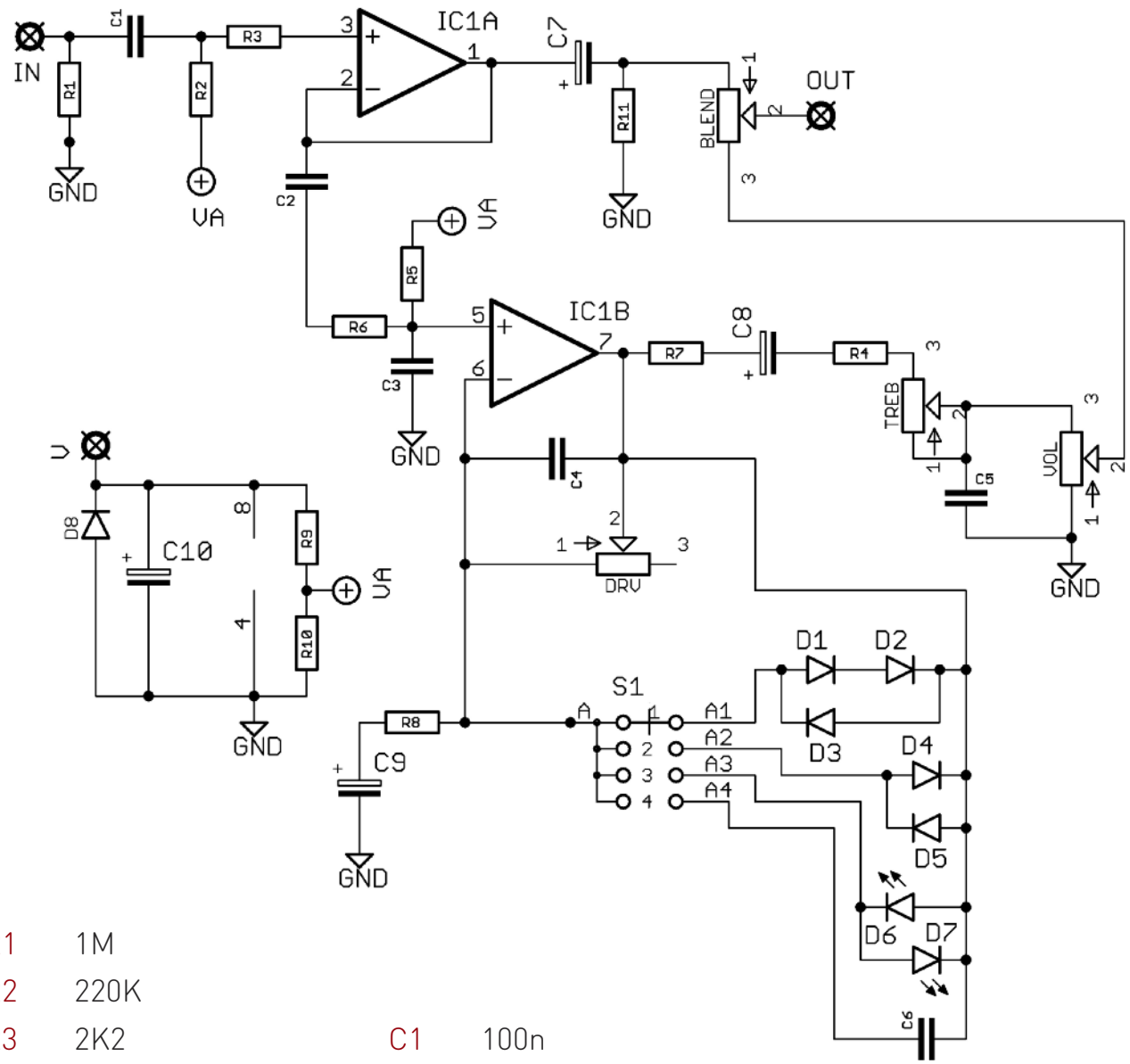
Awesomely versative bass overdrive preamp with blend

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	1M
R2	220K
R3	2K2
R4	1K
R5	1M
R6	1K
R7	1K
R8	470R
R9	100K
R10	100K
R11	100K

D1-3	Germanium*
D4-5	1N4148
D6-7	3mm Red LED
D8	1N4001

C1	100n
C2	220n
C3	2n2
C4	470p
C5	10n
C6	470p
C7	10u elec
C8	10u elec
C9	10u elec
C10	47u elec

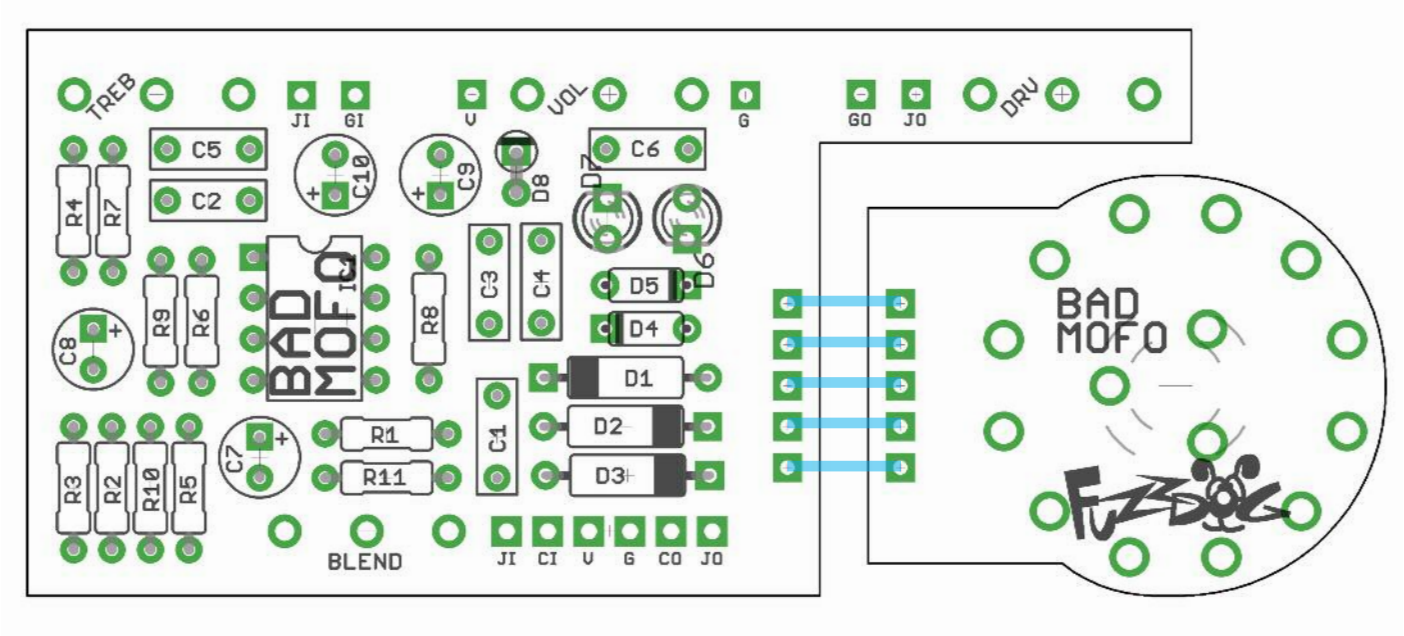
IC1	JRC4559**

S1	3P4T rotary

DRIVE	100KB
LEVEL	100KA
TREBLE	100KB
BLEND	100KB

*We provide Russian diodes on which the stripe indicates anode. Place them reversed compared to the PCB silkscreen - see main image.

**Originally JRC4562 but these are now obsolete.
We found this to be the best match. 4558 will also work.



If you want to mount the jacks and DC on the top edge of the enclosure you can connect all six of the Direct Connect pads to the daughterboard and use the jack and V G pads on the main PCB to connect them.

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 and switches. Once they're in place you'll have no access to much of the board. Make sure your pots all line up nicely.

The best way to do that is to solder a single pin of each pot in place then melt and adjust if necessary before soldering in the other two pins.

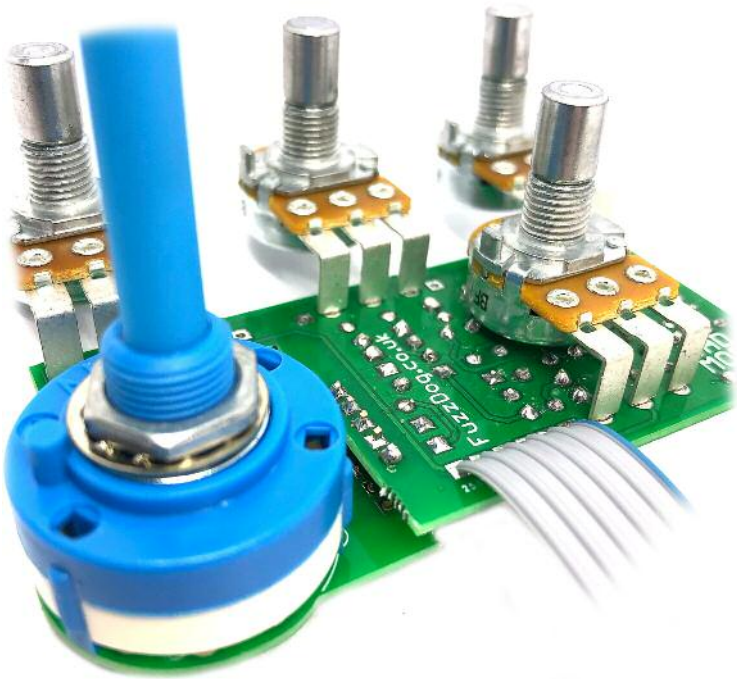
If you're top-mounting the jacks and DC we recommend an 8mm DC socket (long pin is +) and Lumberg KLBM-3 jacks.

ROTARY SWITCH

These are SO annoying normally, with the extra height making it awkward to align them with the pots. We've designed this kit with a separate daughterboard so the switch sits at just the right height if you use standard header pins to connect the two boards. You can just use wires to connect them if you prefer.

Theres a tabbed washer on the switch which limits the amount of clicks available. Adjust it until you get four clicks.

Align the switch so the cylindrical tab aligns with the circle on the back side of the daughterboard, then snip that tab off otherwise you'll be unable to mount it properly in the enclosure. Most rotary switches also have very long shafts so you'll have to break out the hacksaw.



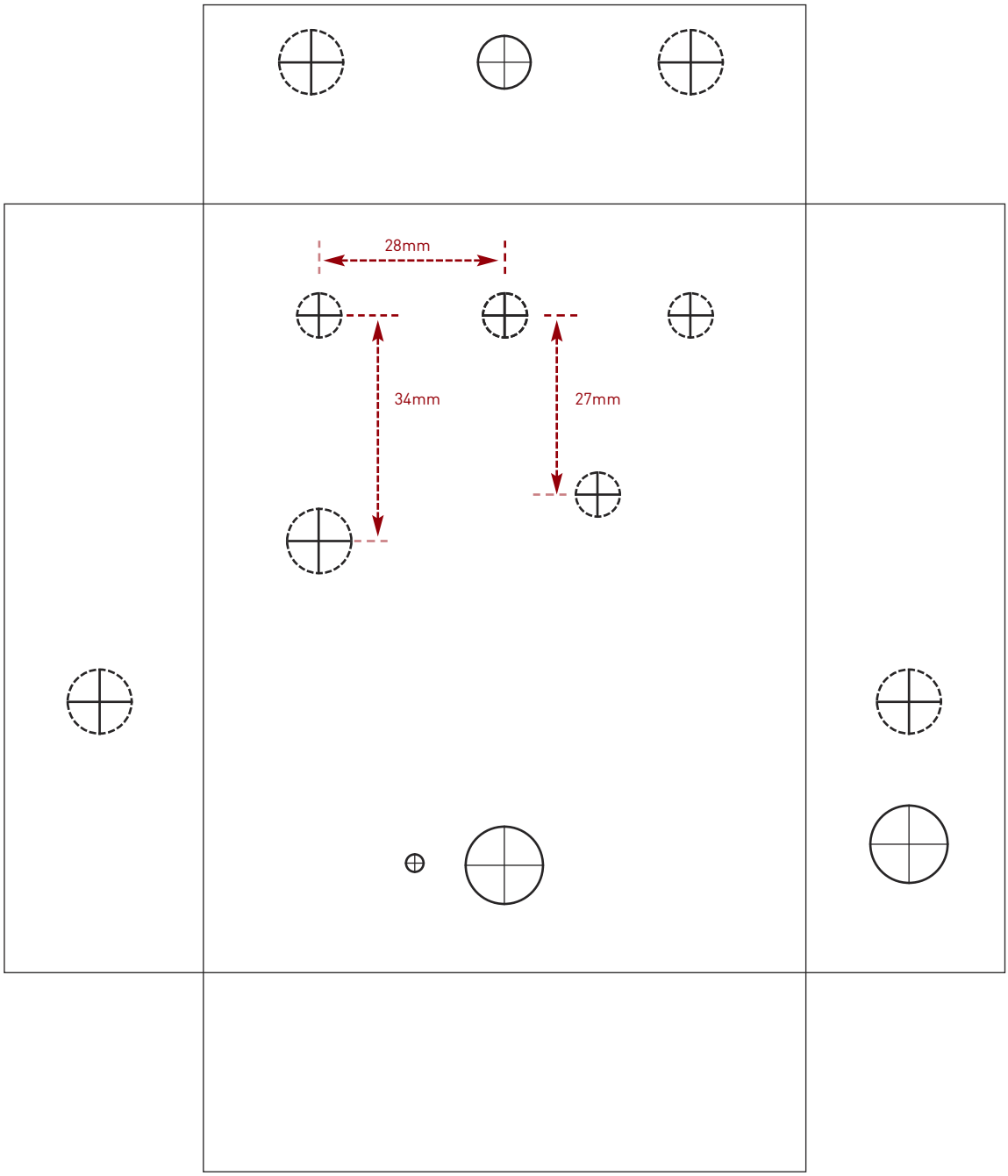
Drilling template

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.

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