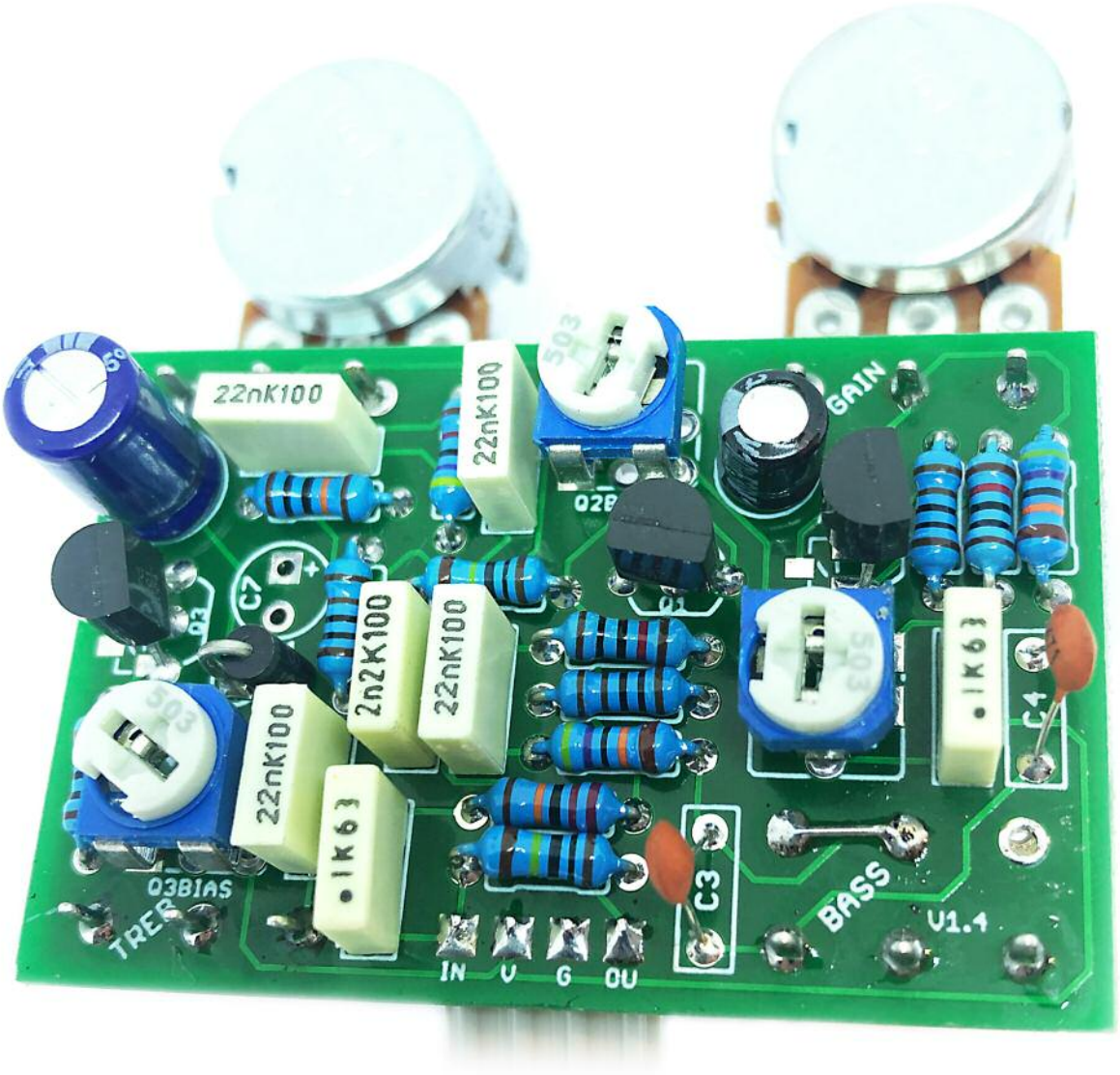
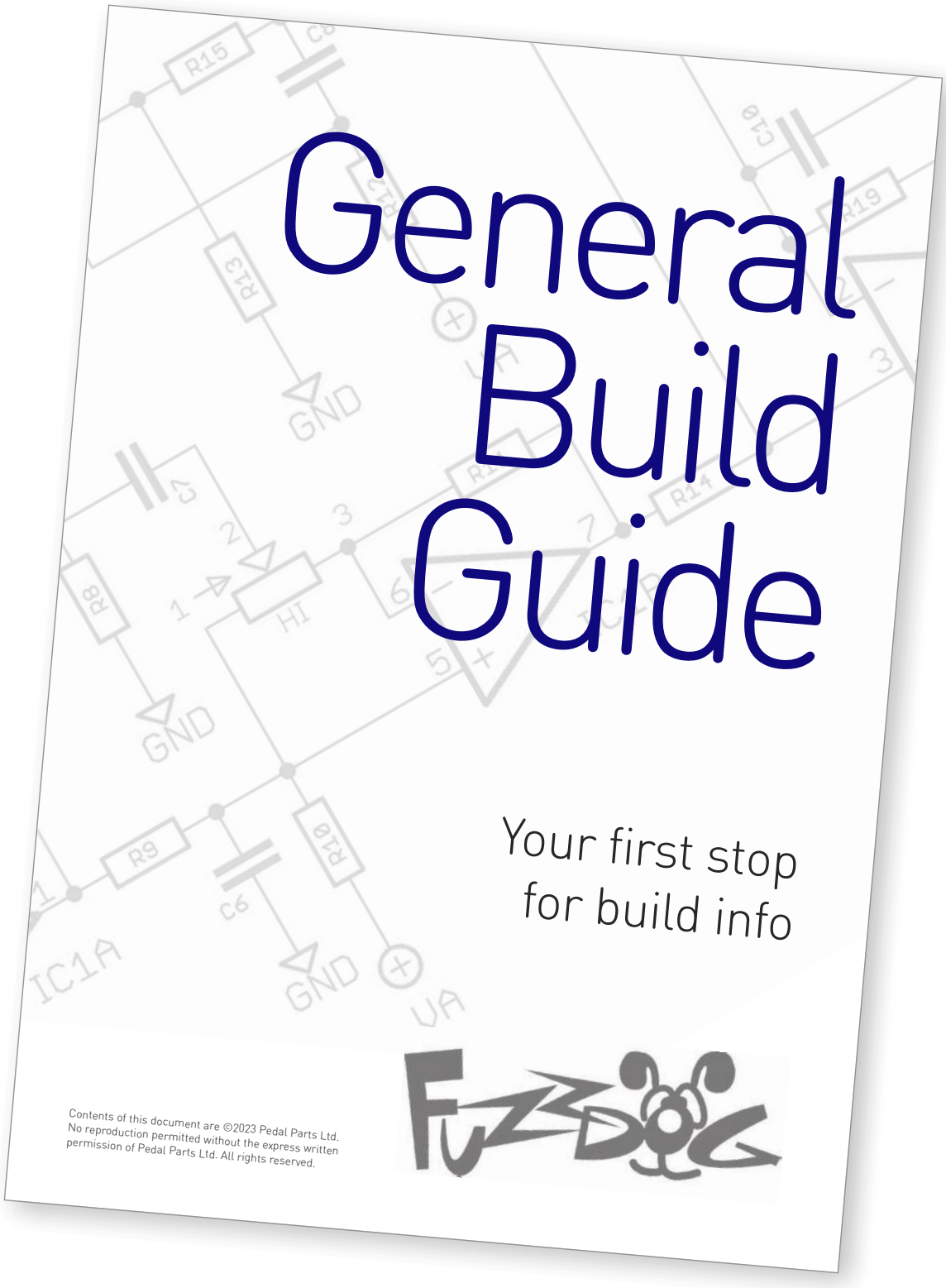


Chimera 30

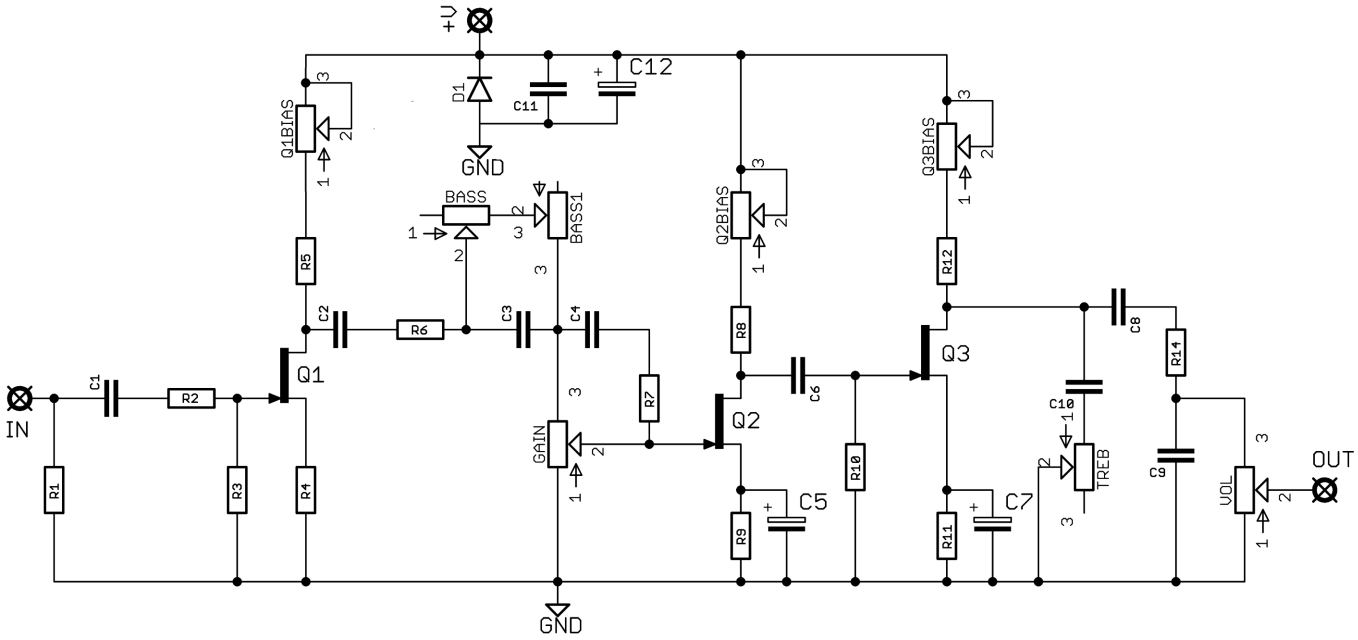
Boutique Amp
Pre-amp-a-like

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

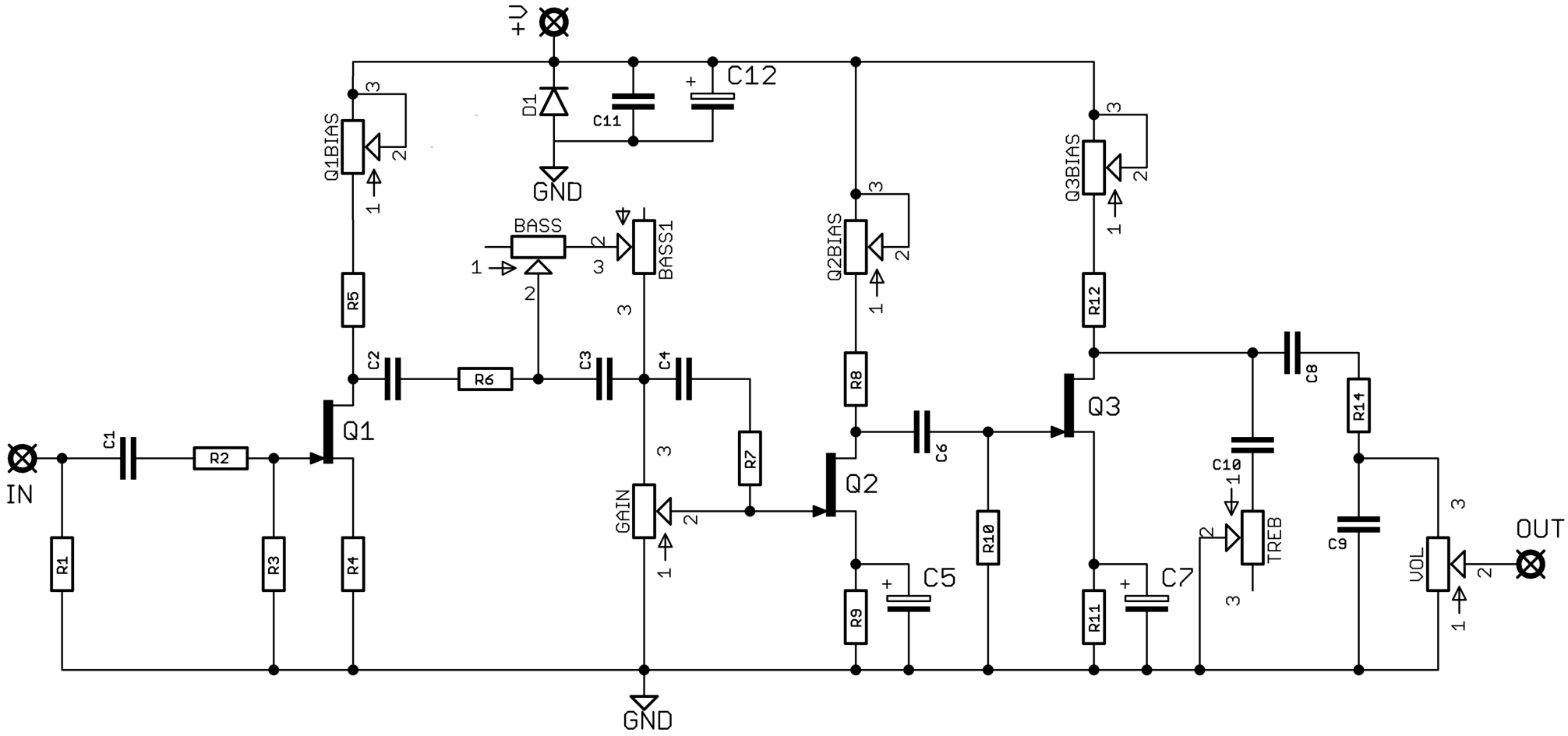


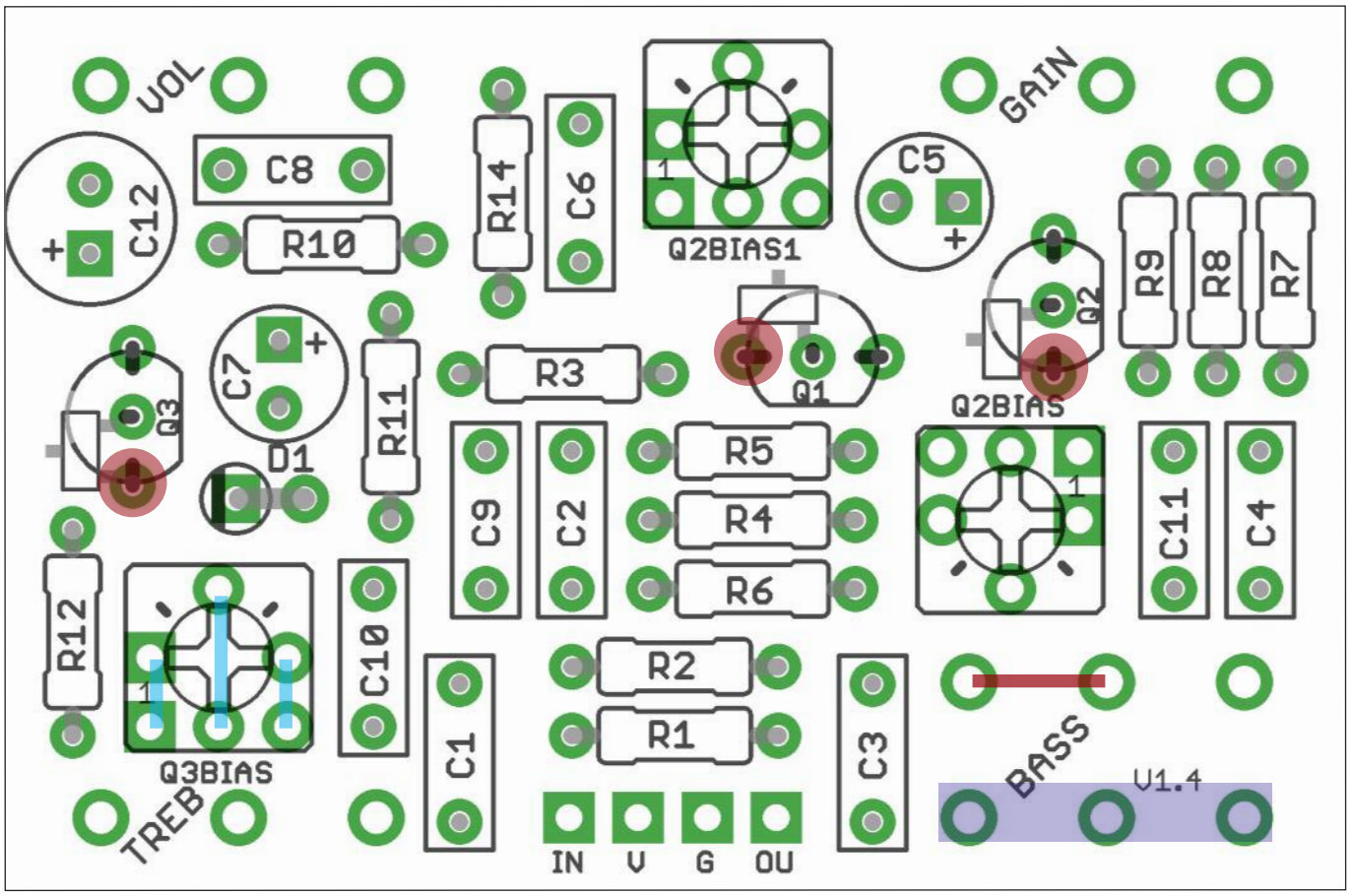
R1	1M	C1	100n	D1	1N4001
R2	220K	C2	22n		
R3	1M	C3	250p	Q1-3	J201*
R4	1K	C4	470p		
R5	12K	C5	10u elec	BASS**	2MB
R6	470K	C6	22n	TREB	250KA
R7	470K	C7	10u elec***	GAIN	1MA
R8	10K	C8	22n	VOL	100KA
R9	1K	C9	2n2		
R10	100K	C10	22n	TRIMS	47-50K
R11	1K	C11	100n		
R12	10K	C12	100u elec		
R14	47K				

*Pads are included for through-hole J201 or their SMT equivalent MMBFJ201 which will be easier to source (though harder to solder)

**You're unlikely to easily source a 2MB pot, so we've designed the PCB for a dual 1MB pot with the two parts running in series. This will give exactly the same sweep as the 2MB.

***C7 was supposedly only included on the first 100 or so production units. Leave it out. They did.


+V
D1
C11
C12
GND
Q1BIAS
BASS
BASS1
Q2BIAS
Q3BIAS
R5
R6
R12
C2
C3
C4
R8
Q1
Q3
C1
R2
R7
C6
C8
R14
IN
GAIN
Q2
C10
TREB
C9
OUT
R1
R3
R4
R10
C5
C7
R9
R11
VOL
GND



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.

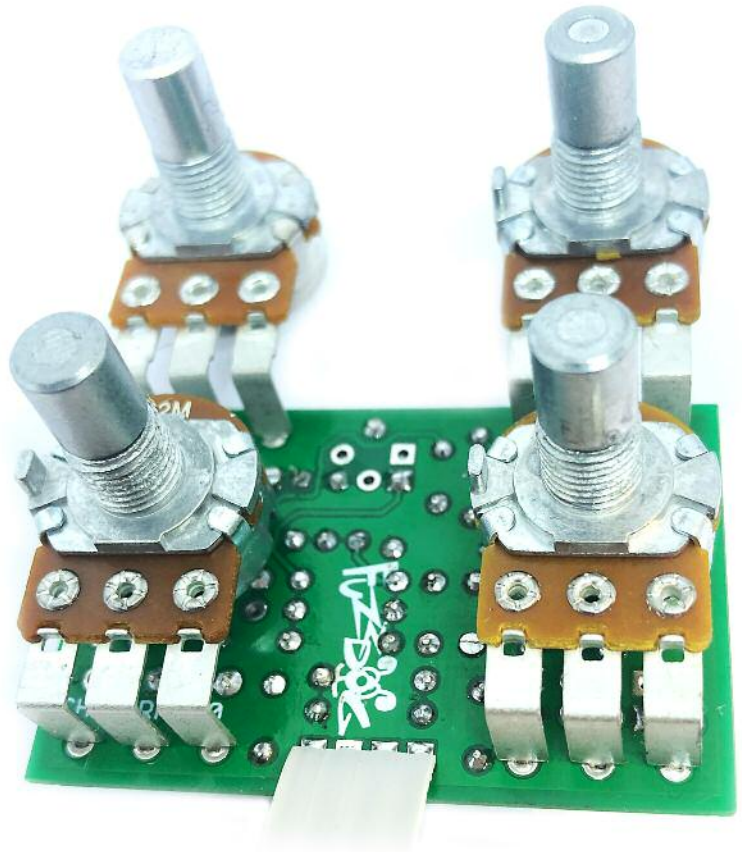
If you're using a 2MB pot for BASS, use the pads marked in blue above, and add the shown in red.

There are extra pads on trimmers to allow different package formats to be used. Pads are connected via PCB traces as shown above, so just fit your trimmer into whichever holes it fits naturally into. As long as you have one pin each in the left, centre and right sections.
No jumpers are required.

ERROR ALERT - We forgot to rename the trimmer for Q1. It's the one at the top of the PCB marked 'Q2BIAS1'

Use the trimmers to adjust the bias of Q1-3 to be approx 4V on the drain legs (marked in red).

Once there, tweak to taste.



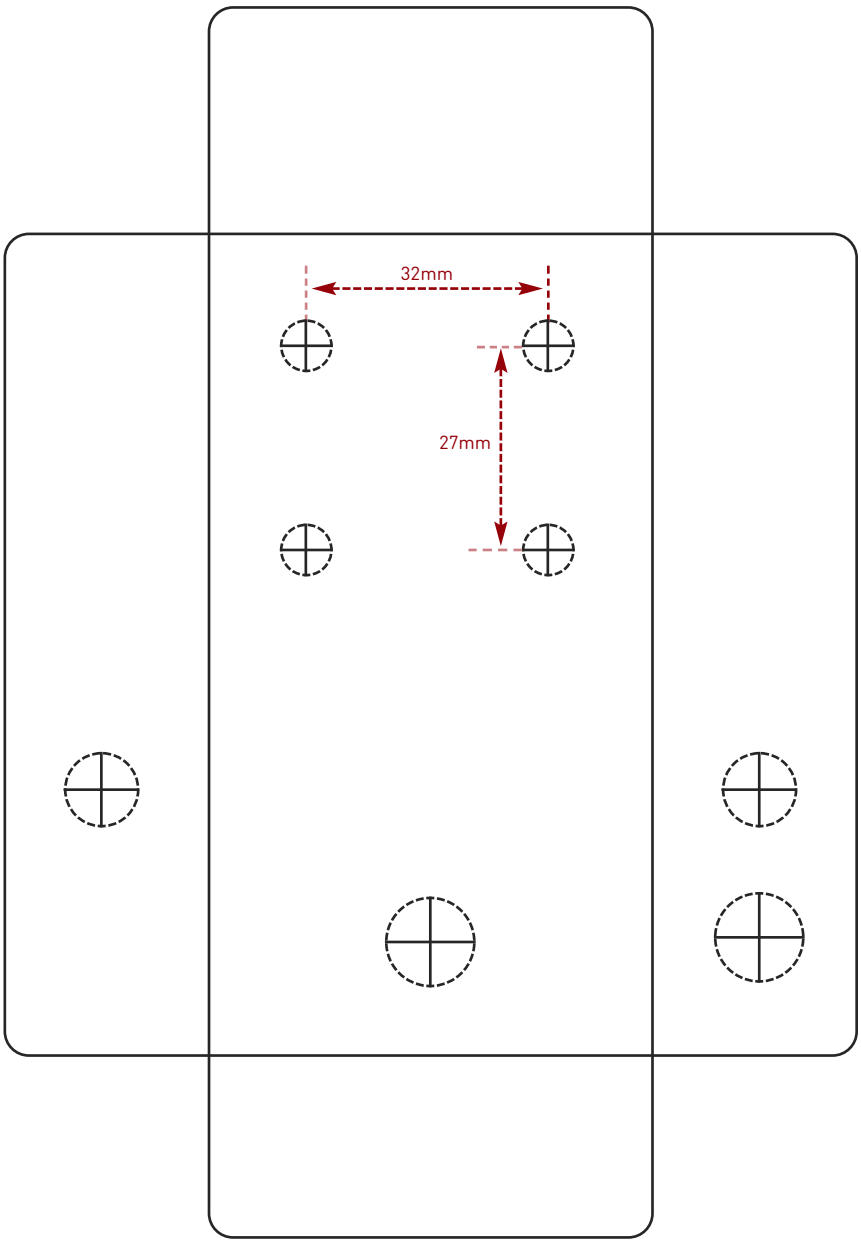
Drilling template

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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