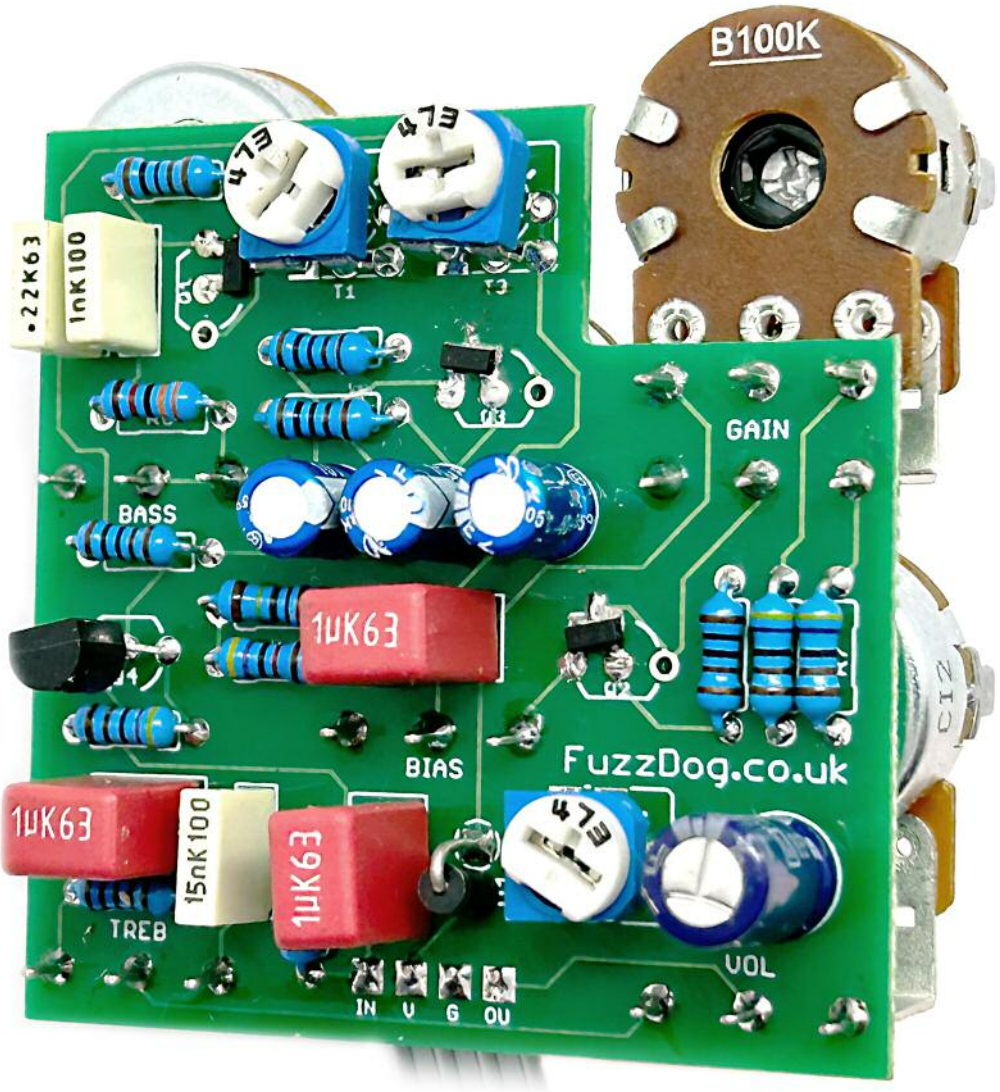
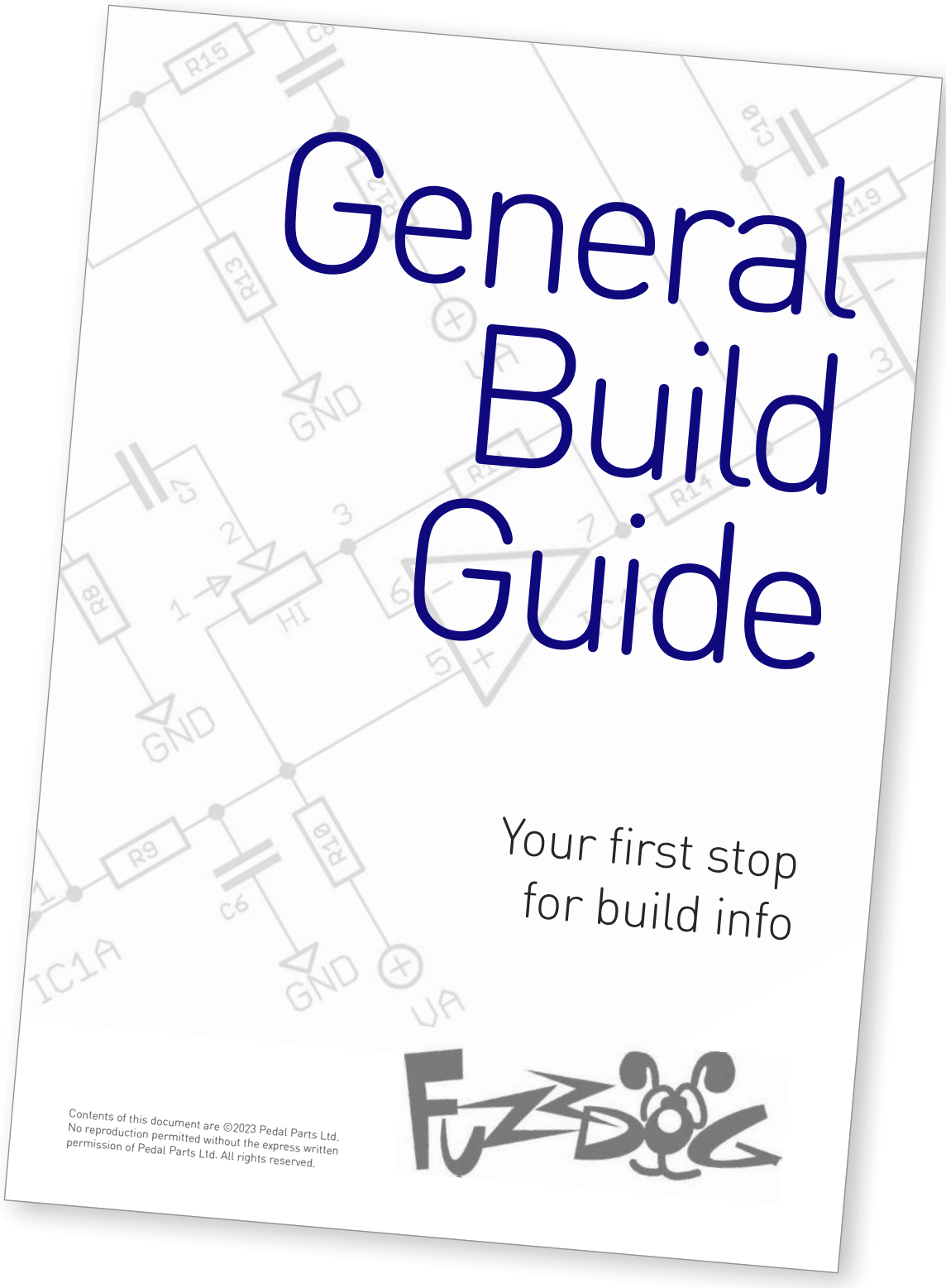


MaxMini

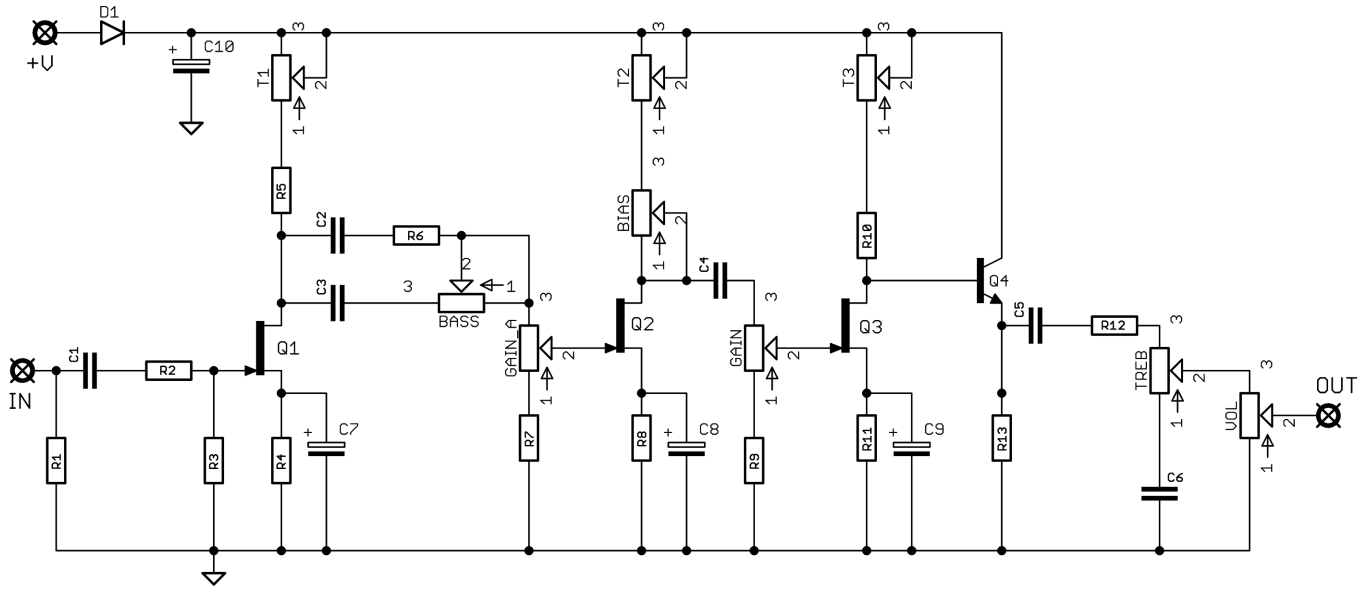
Versatile drive, from clean boost to speaker disintegration

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



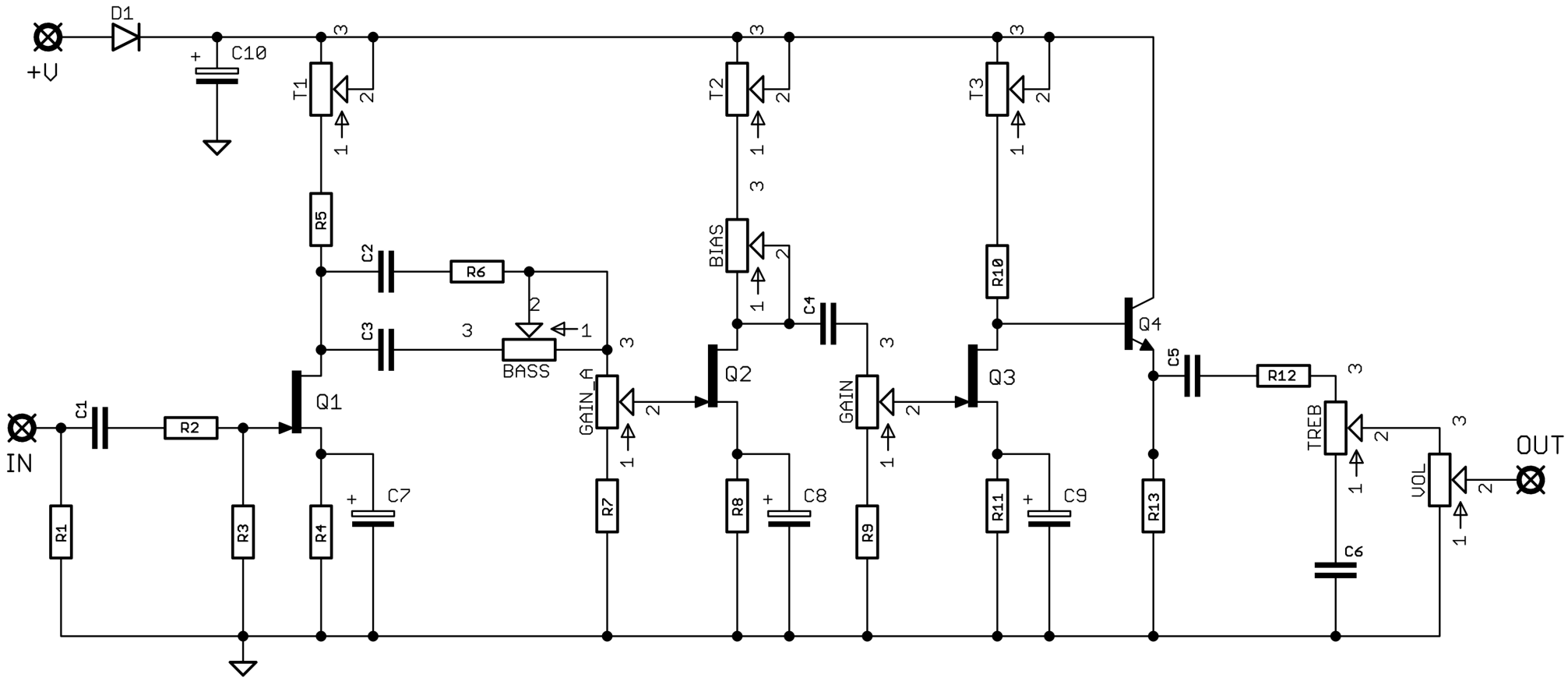
R1	1M
R2	47K
R3	1M
R4	1K
R5	1K
R6	33K
R7	4K7
R8	1K
R9	4K7
R10	1K
R11	1K
R12	1K
R13	4K7

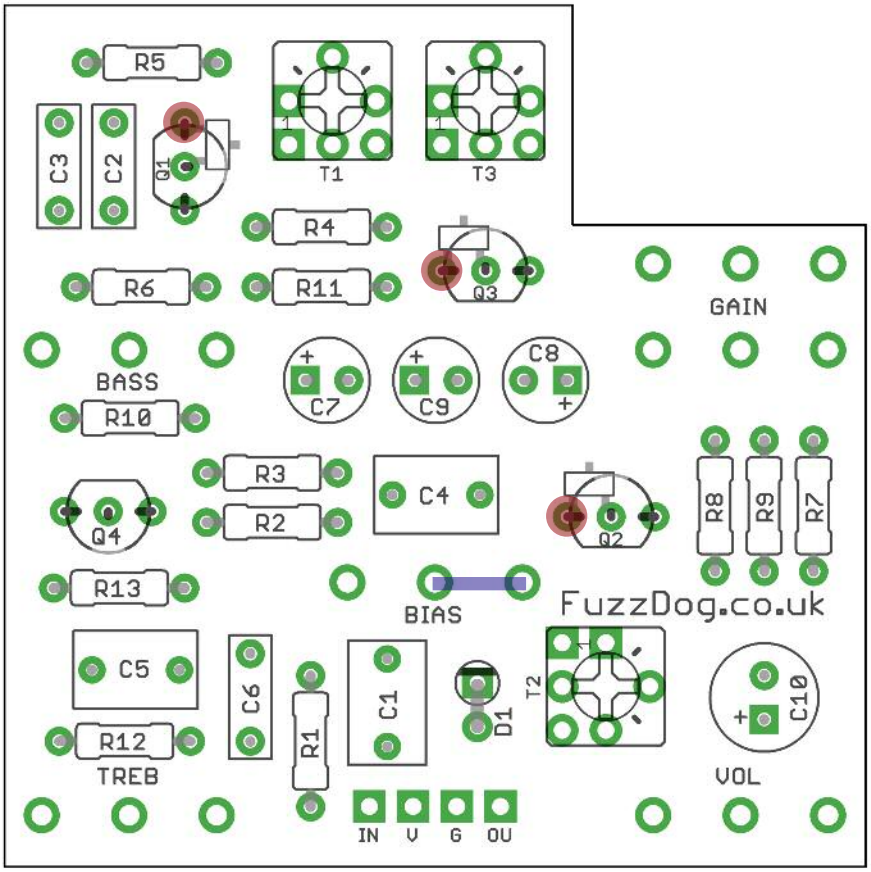
C1	1u
C2	1n
C3	220n
C4	1u
C5	1u
C6	15n
C7	10u elec
C8	10u elec
C9	10u elec
C10	100

D1	1N5817
Q1	J201
Q2	2N5457
Q3	J201
Q4	2N5089
BASS	500KC
BIAS	10KB*
GAIN	100KB DUAL
TREB	10KB
VOL	100KA
T1-3	47-50K Trimmer

There are pads for both through-hole and SMT transistors for Q1-3.
SMT part numbers are MMBFJ201 and MMBF5457.

*Bias pot requires a jumper. See page 5.


+U
D1
C10
T1
T2
T3
R5
C2
R6
C3
BASS
BIAS
C4
R10
Q4
C5
R12
TREB
C6
VOL
OUT
IN
C1
R2
Q1
GAIN_A
Q2
GAIN
Q3
R1
R3
R4
C7
R7
R8
C8
R9
R11
C9
R13



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

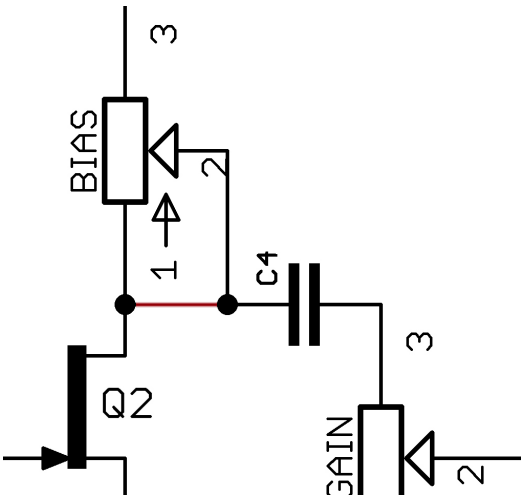
You should solder all other board-mounted components before you solder the pots.

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

JUMPER REQUIRED

There's a connection missing on the board, so you need to place a jumper across the Bias pot pins 1+2 as shown in blue above.

The link shown in red below is missing without the jumper.



We actually found the pot made quite an interesting difference without the jumper. Try for yourself if you're feeling adventurous.

BIASING

Adjust the trimmers until you get around half your supply voltage on the drain of the FETs (in red above). The original has Q1's bias up by half a volt from that, so around 5V on a 9V supply.

It's up to you how you bias Q2, depending on your preference with the BIAS pot. In the first instance, set your bias pot half way and adjust the trimmer for half supply on Q2. Try the Bias pot and see how you like it. This lets you under and over bias Q2 with the pot. You may prefer the effect of a bigger voltage sag. Turn the pot all the way up and adjust for 4.5V. For over-biasing do the opposite - turn the pot right down and set the trimmer for 4.5V.

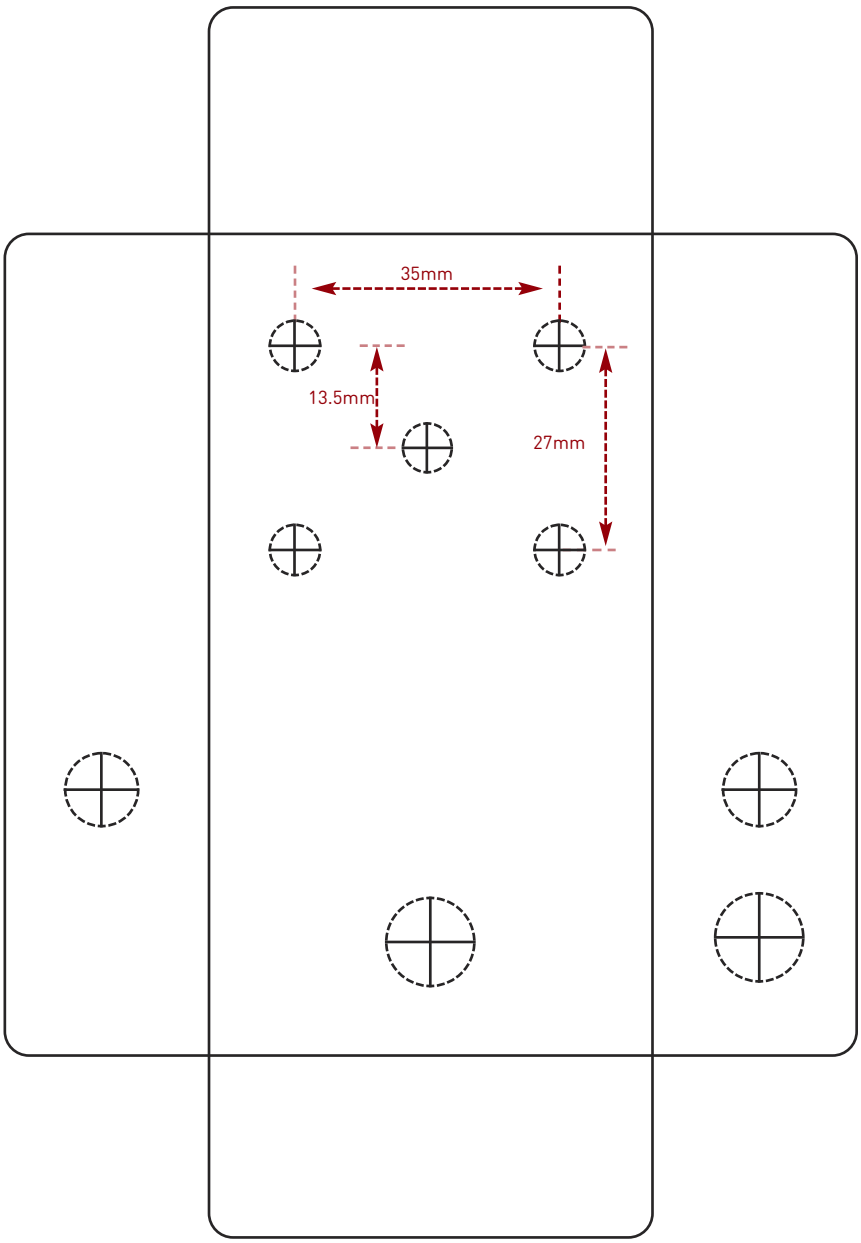
Drilling template

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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