

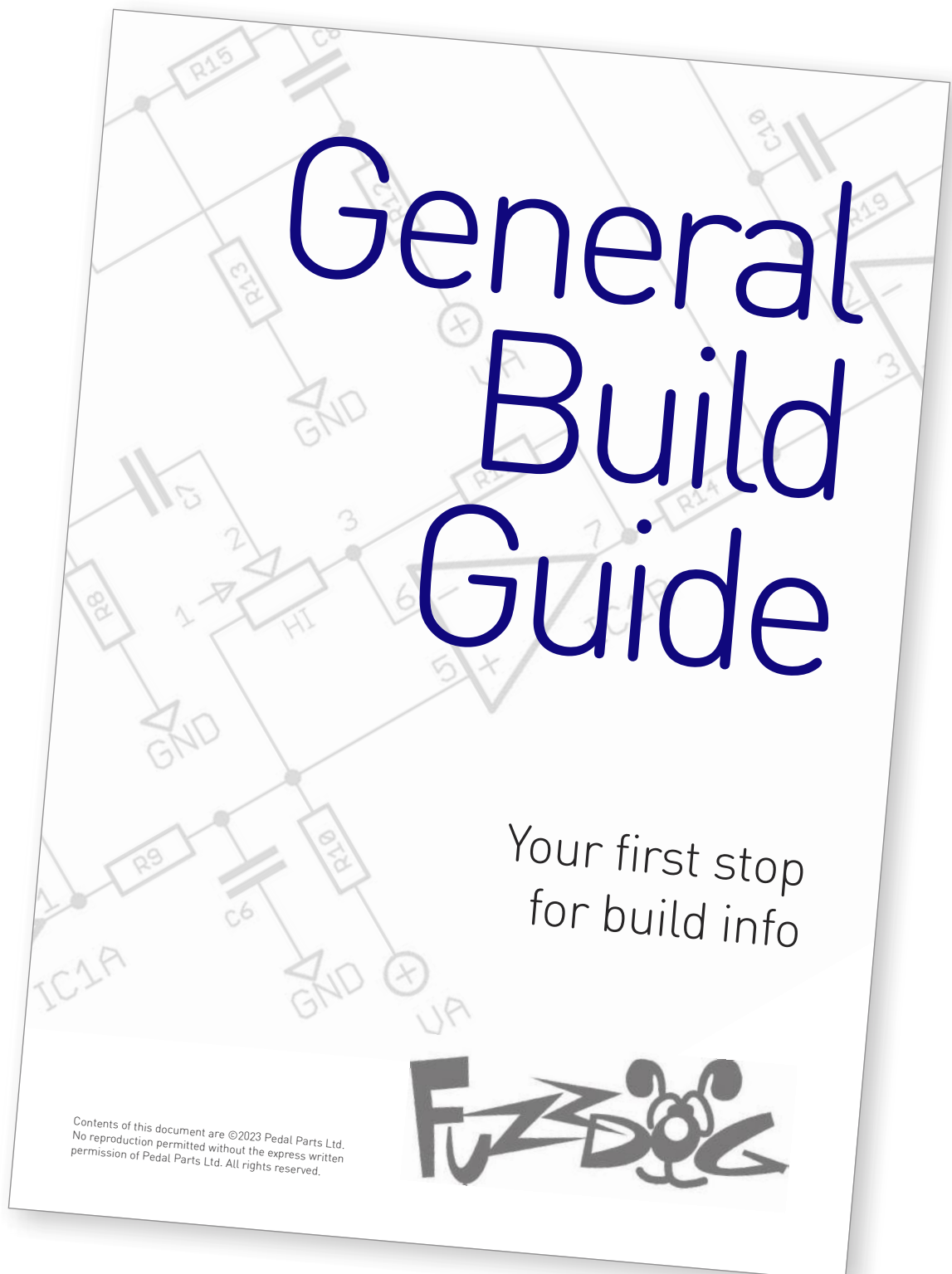
Gee-Wizz Muff

Boutique Big Muff Action -
now in two flavours



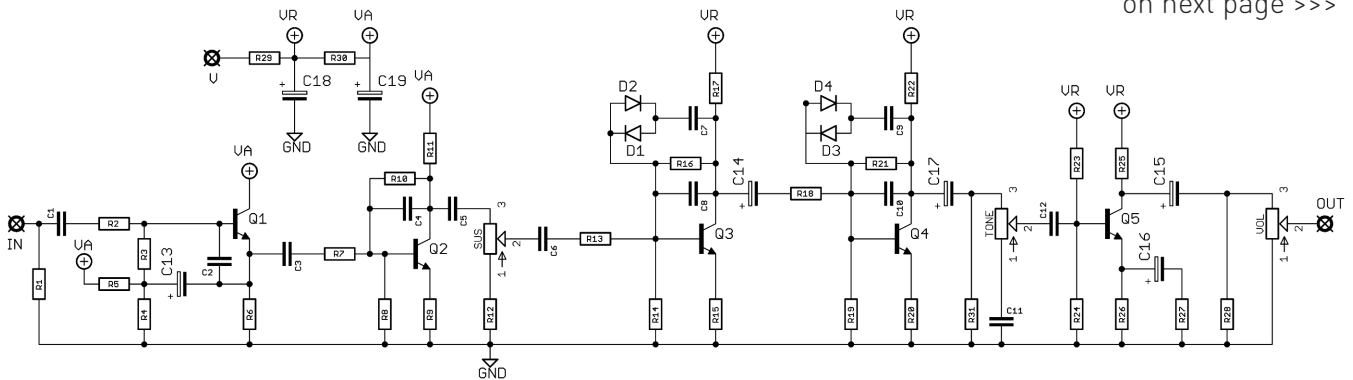
Before you dig in, ensure you download and read the **General Build Guide**.

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



Schematic + BOM - Gee

Bigger schem on next page >>>



R1	1M
R2	1K
R3	120K
R4	150K
R5	68K
R6	8K2
R7	39K
R8	100K
R9	100R (680R)
R10	470K
R11	18K (15K)
R12	1K
R13	8K2
R14	100K
R15	680R
R16	470K
R17	15K
R18	8K2
R19	100K
R20	100R
R21	470K
R22	15K
R23	390K
R24	100K
R25	8K2
R26	2K2
R27	620R
R28	39K
R29	100R
R30	120R
R31	100K

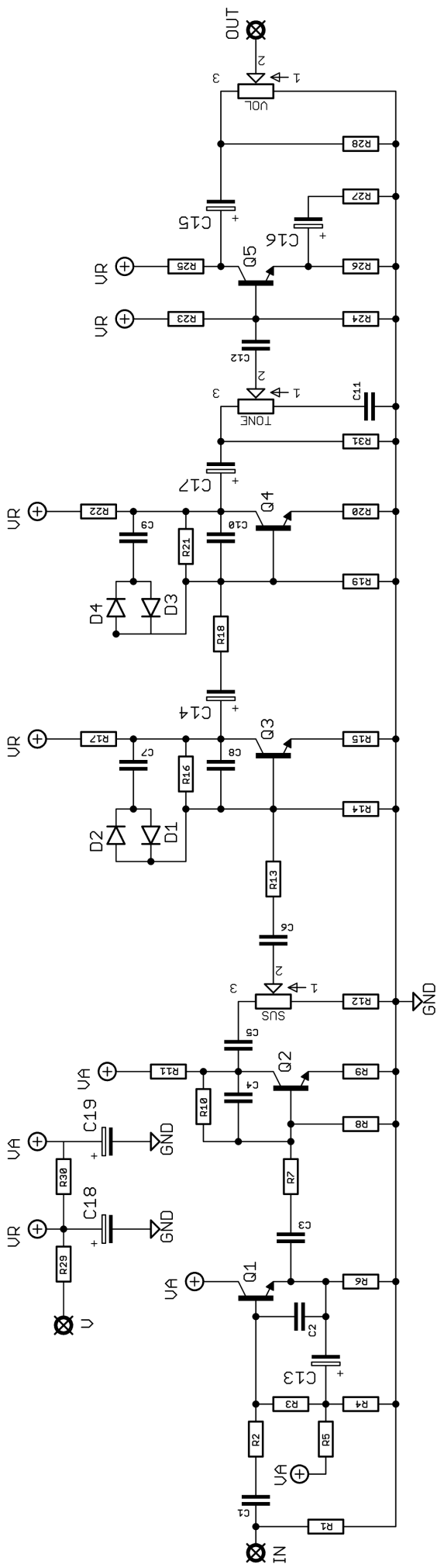
C1	220n
C2	10n
C3	47n
C4	1n
C5	47n
C6	47n
C7	220n
C8	1n
C9	220n
C10	1n
C11	10n
C12	220n
C13	4u7 elec
C14	4u7 elec
C15	22u elec
C16	22u elec
C17	4u7 elec
C18	100u elec
C19	100u elec

D1-4	Ge*
Q1-5	BC549C**
SUS	50KA
TONE	25KB
VOL	10KA

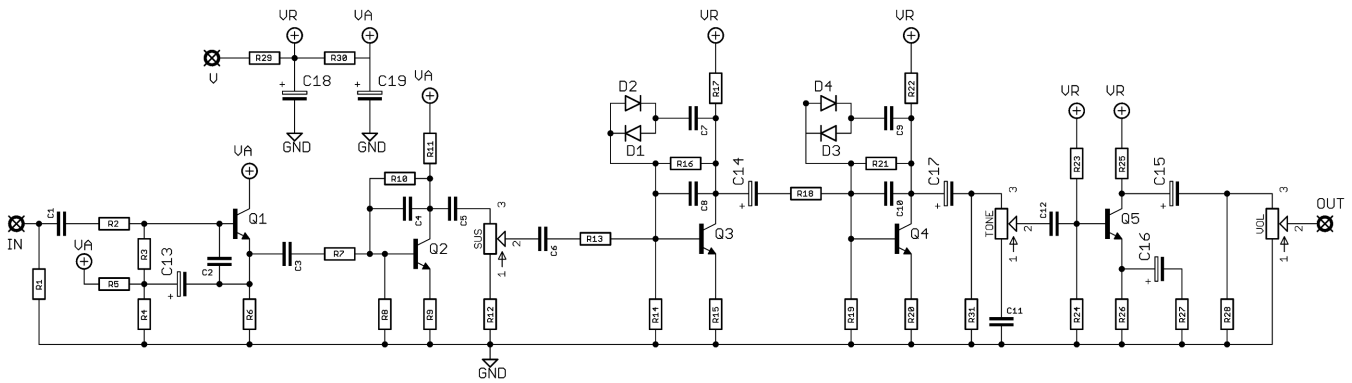
*Try any diodes you like. Original uses germaniums. We now supply Russian diodes which have the anode indicated by the stripes. You should reverse these compared to the silkscreen on the PCB.

**If you're using different transistors be aware the pinout for BC549C is reversed compared to 2N3904, 2N5088 etc.

The original values for R9 and R11 are shown in blue. During test builds this circuit could sound great or be ready for the bin. Seems it's all down to the first set of clipping diodes. If their forward voltage isn't spot on they won't clip, and everything goes askew after that. AionFX came up with a solution that eliminates this risk, increasing the gain in the first stage to ensure there's enough signal to get that first pair clipping. Use 100R and 18K as shown. Thanks Kevin!



Schematic + BOM - Pee

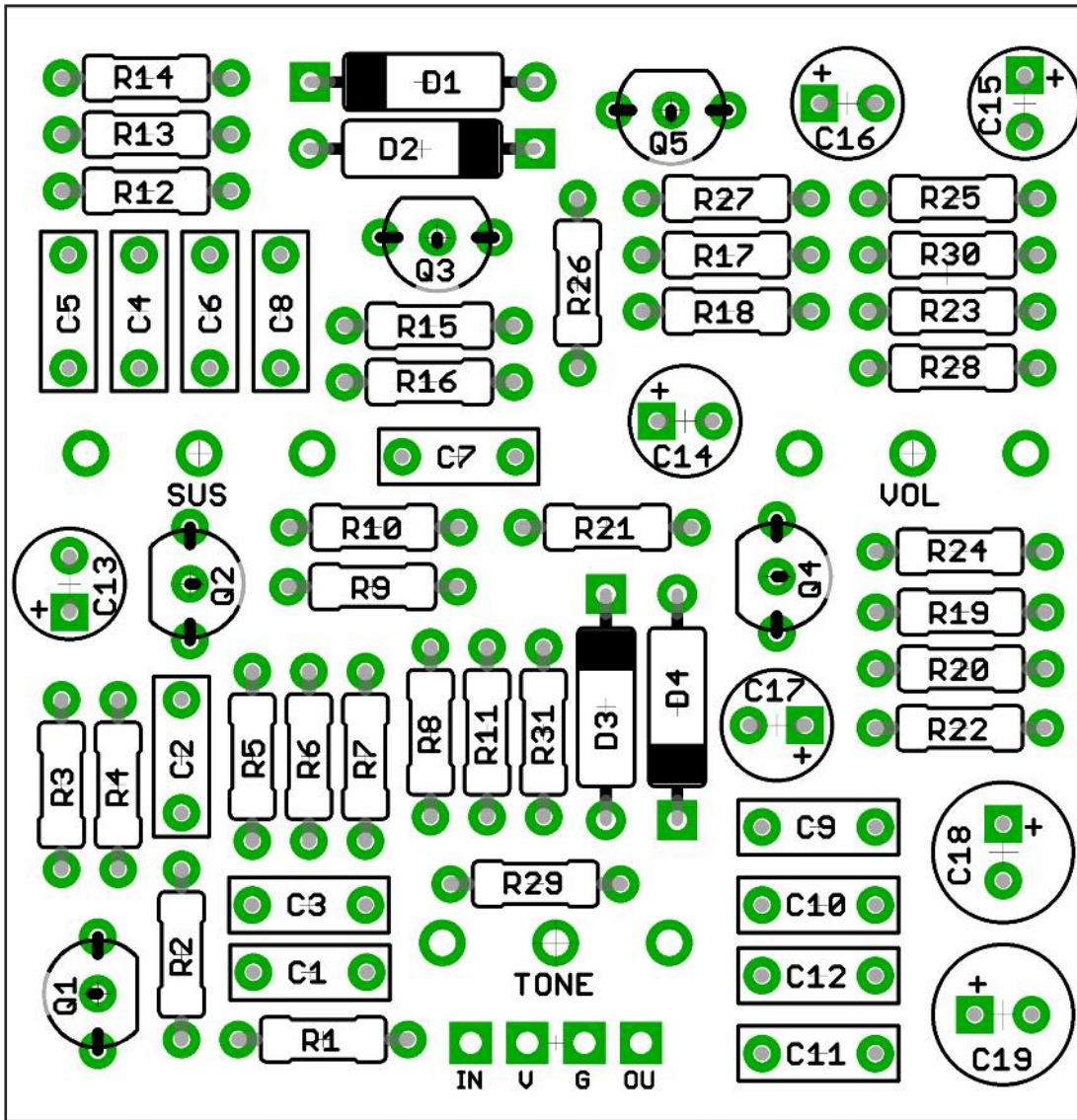


R1	1M	C1	220n	D1-4	1N4148
R2	1K	C2	10n	Q1-5	BC549C**
R3	120K	C3	47n	SUS	50KA
R4	150K	C4	470p	TONE	25KB
R5	68K	C5	47n	VOL	10KA
R6	10K	C6	47n		
R7	39K	C7	220n		
R8	100K	C8	470p		
R9	100R	C9	220n		
R10	470K	C10	470p		
R11	15K	C11	10n		
R12	100R	C12	220n		
R13	8K2	C13	4u7 elec		
R14	100K	C14	4u7 elec		
R15	100R	C15	22u elec		
R16	470K	C16	10n*		
R17	15K	C17	4u7 elec		
R18	8K2	C18	100u elec		
R19	100K	C19	100u elec		
R20	100R				
R21	470K				
R22	15K				
R23	390K				
R24	100K				
R25	10K				
R26	2K2				
R27	1K2				
R28	39K				
R29	100R				
R30	120R				
R31	100K				

*The pads for C16 are only 2.5mm pitch, so you'll have to source a cap that fits or bend the legs of a 5mm pitch to fit. There's plenty of space around the part to accommodate a standard film cap here.

**If you're using different transistors be aware the pinout for BC549C is reversed compared to 2N3904, 2N5088 etc.

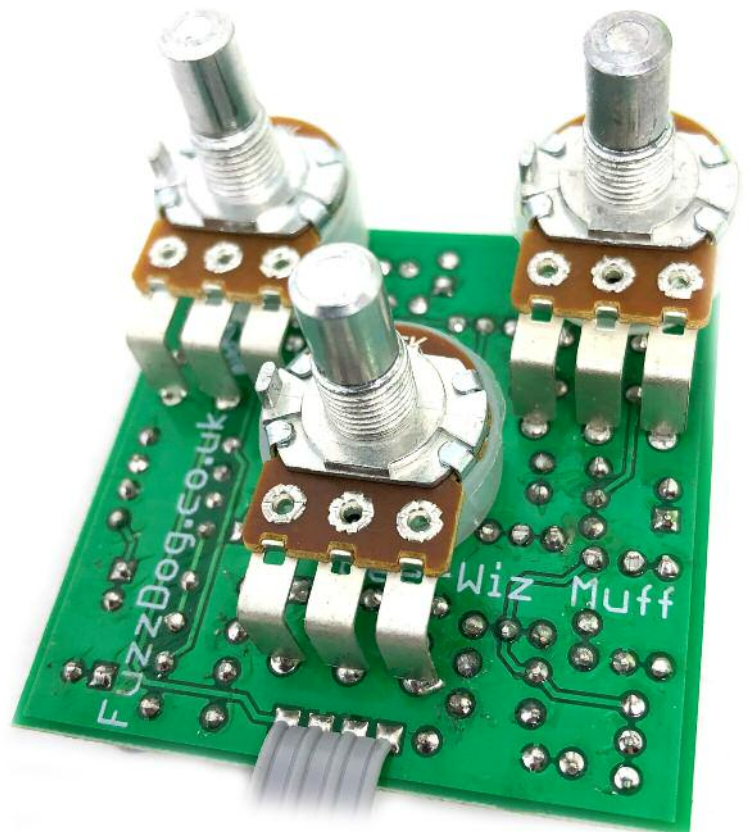
No need to mess around swapping values to get this one to clip correctly. It's all good.



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.



Drilling template

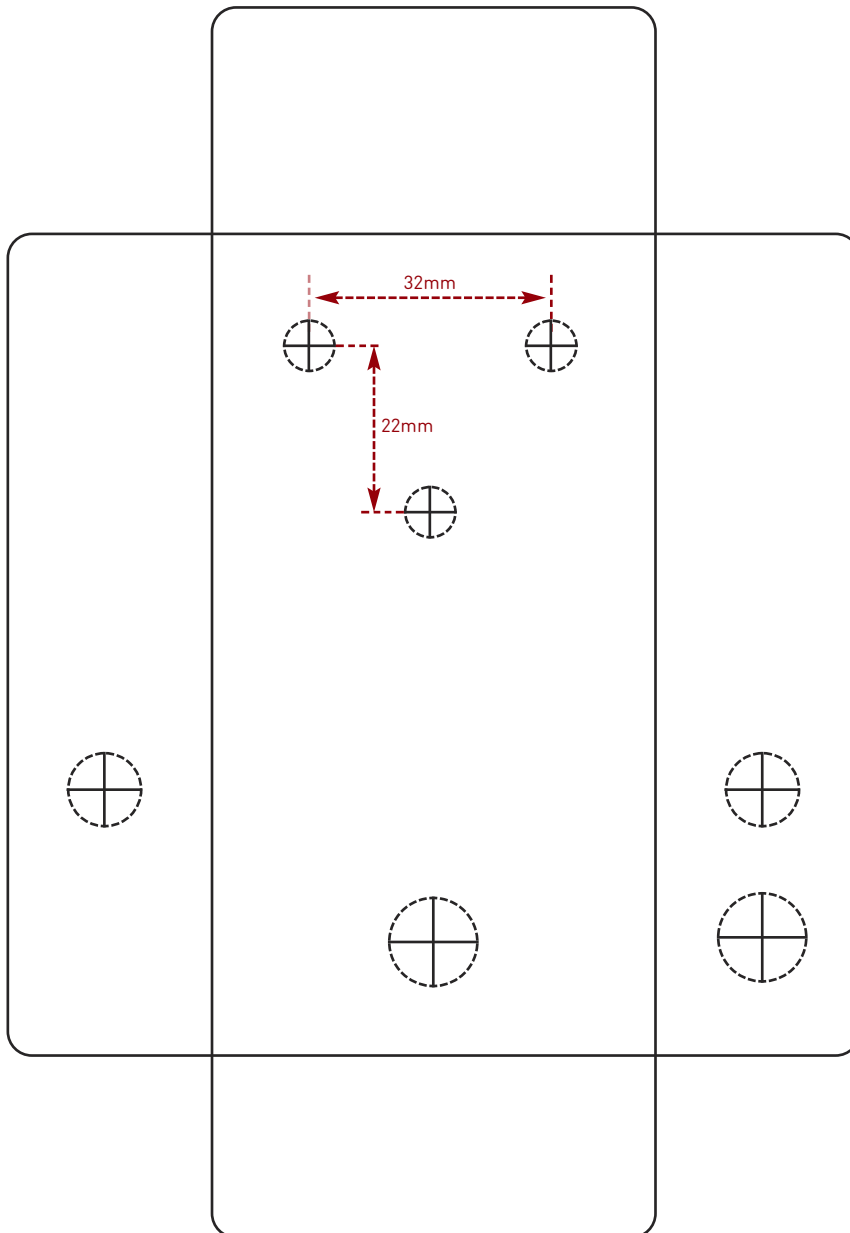
Hammond 1590B - 60 x 111 x 31mm

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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