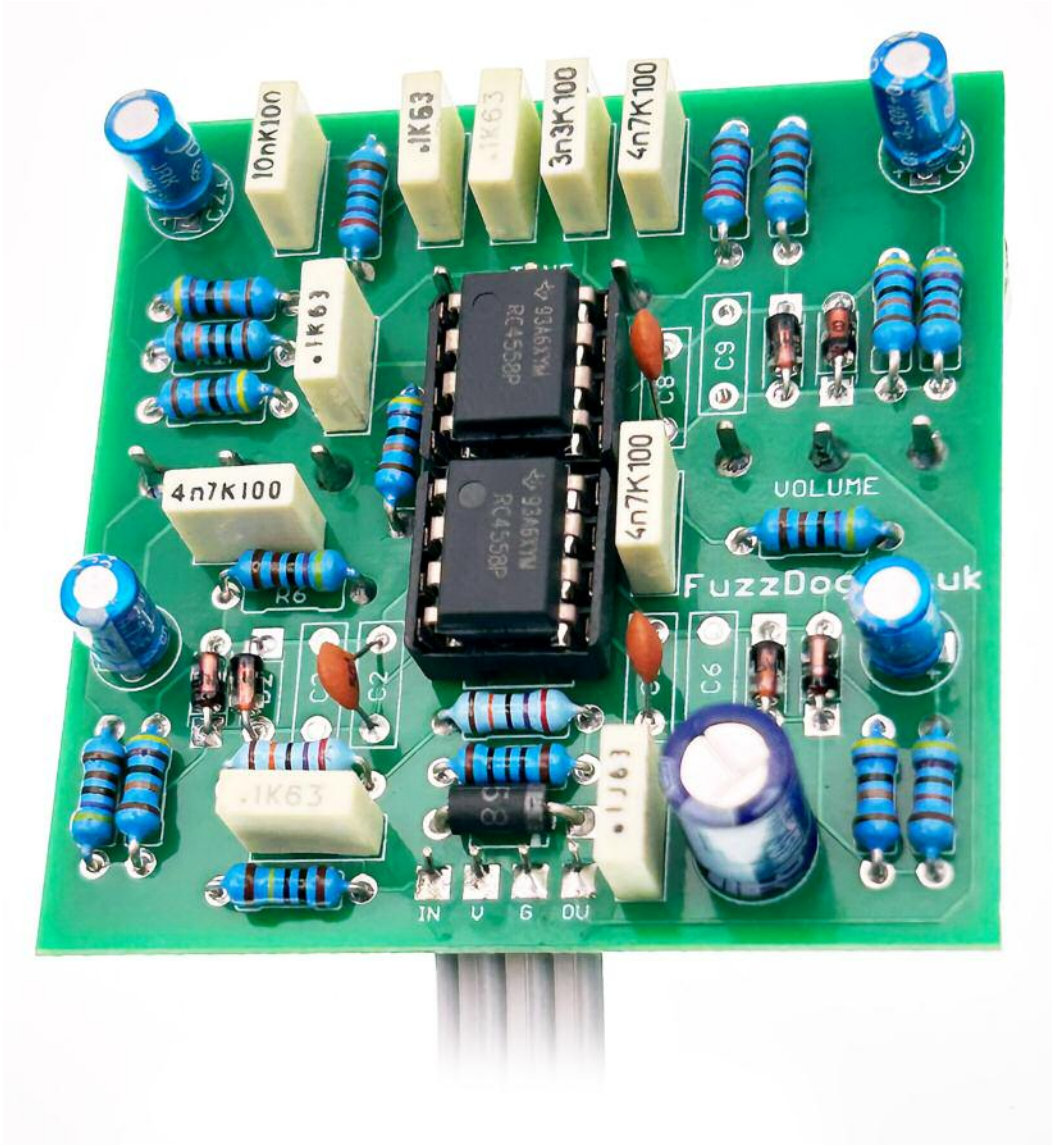
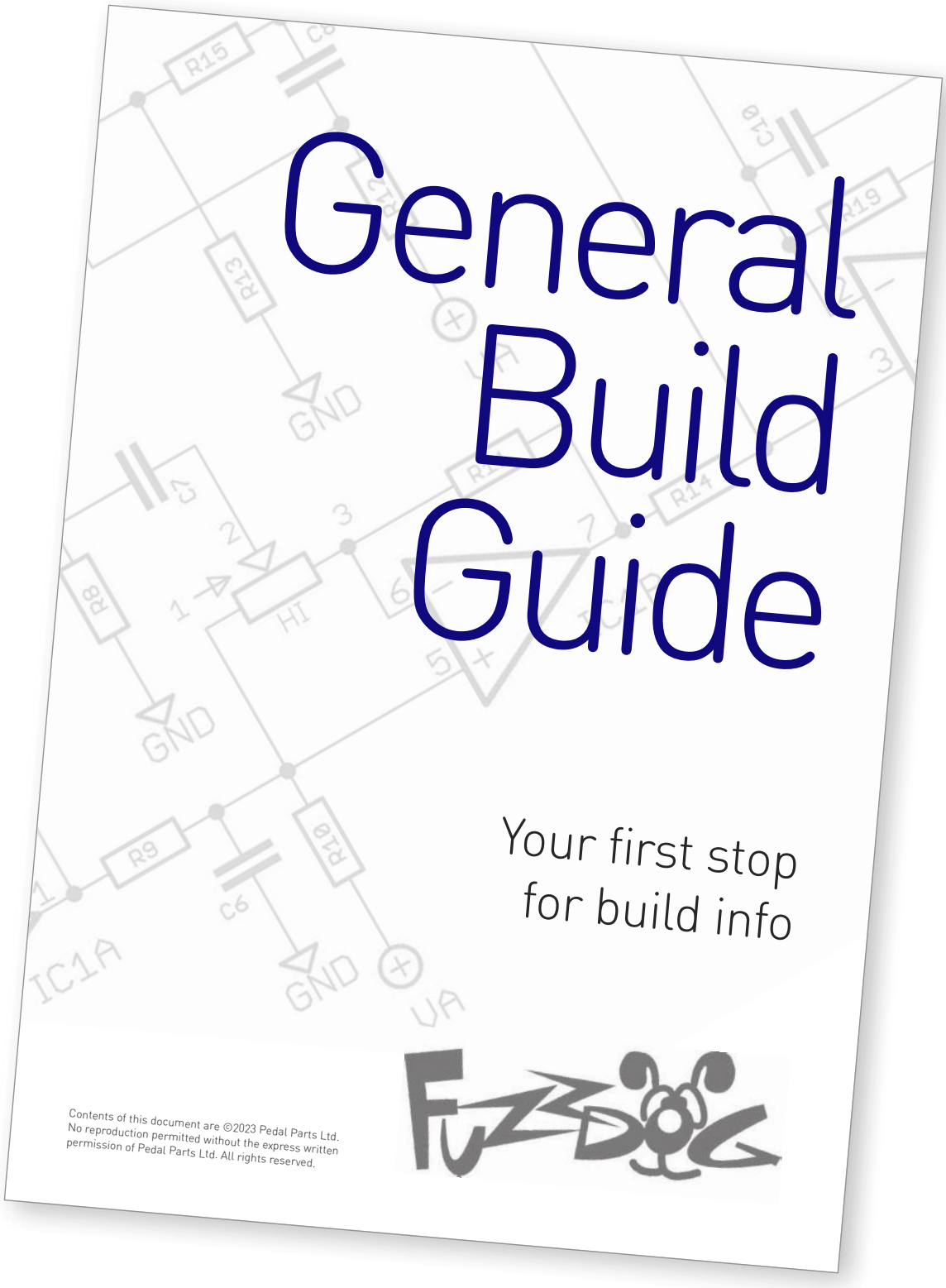


BMP2

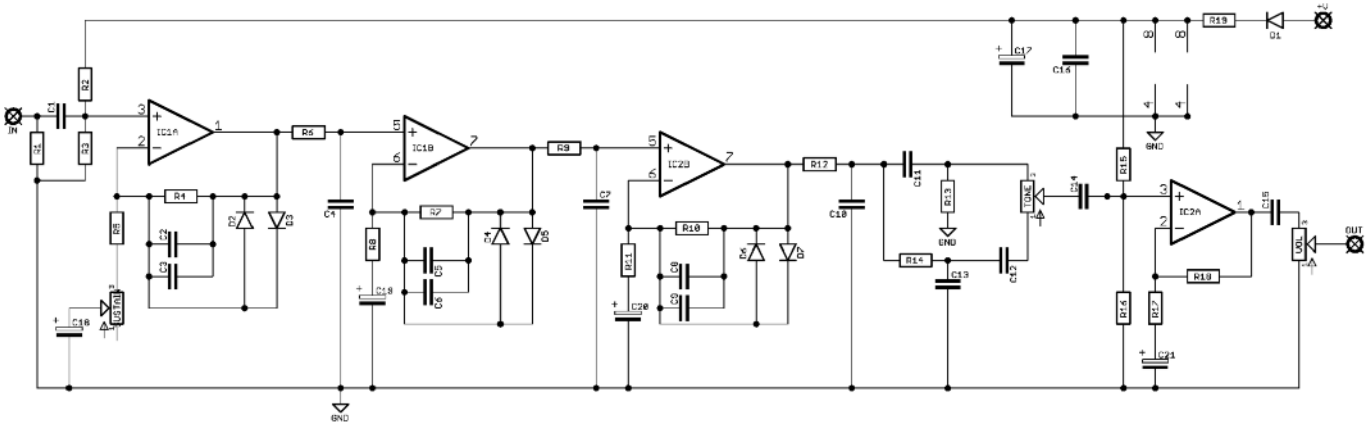
Break the internet box of Muff

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	270K
R3	270K
R4	470K
R5	4K7
R6	4K7
R7	470K
R8	47K
R9	4K7
R10	470K
R11	47K
R12	4K7
R13	27K
R14	27K
R15	470K
R16	470K
R17	100K*
R18	470K*
R19	22R**
D1	1N5817
D2-7	1N4148
IC1-2	4888
SUS	100KB
TONE	100KB
VOL	10KB

C1	100n
C2	500p
C3	Empty
C4	4n7
C5	500p
C6	Empty
C7	4n7
C8	500p
C9	Empty
C10	4n7
C11	3n3
C12	100n
C13	10n
C14	100n
C15	100n
C16	100n
C17	100u elec
C18	4u7 elec
C19	4u7 elec
C20	4u7 elec
C21	4u7 elec

This is not the new production model, which apparently has minor changes in the biasing of the op-amps. It is based on LaceSensor's cleaned up version of the original schematic, with a couple of changes which have been noted on tracing the new one, the main one being Volume changed to 10KB from 100KB.

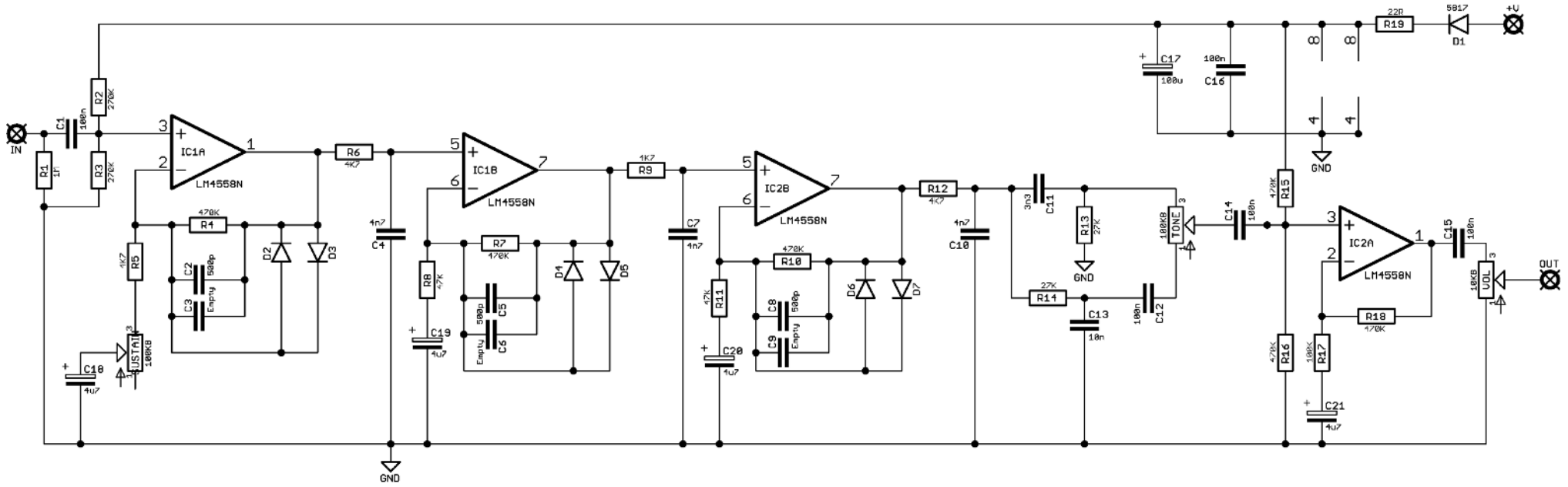
*R17-18 are both 10K in the new version, which reduces the output level significantly if you want to do that.

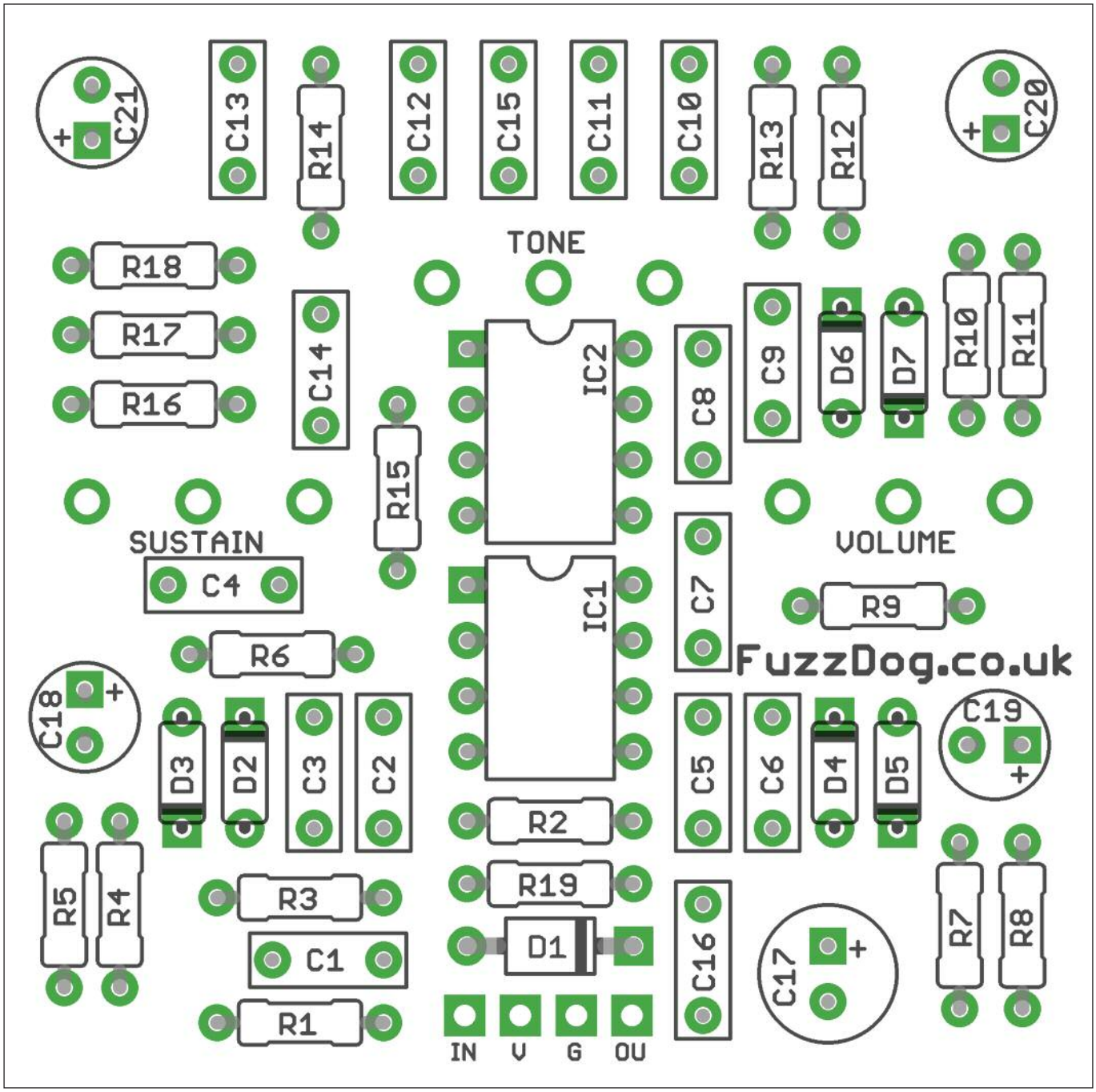
**The circuit does produce some strange noise artefacts when not playing, noticeably when the sustain is fully up and the tone control is set low. This can be heard on online demos. We found this was mitigated somewhat by jumpering R19, giving the circuit that little bit more voltage to play with.

C15 is 10uf on the new model. Honestly - don't do it. Increase to 1uf maybe if using on bass. This thing is boomy enough.

This is not a quiet circuit by any means.

Kudos to **LaceSensor @ GigaHeartFX** and **Robert @ PedalPCB** for their work on this.


IN
OUT
+V
GND
IC1A
IC1B
IC2A
IC2B
LM4558N
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
C18
C19
C20
C21
D1
D2
D3
D4
D5
D6
D7
TONE
VOL
ADJUST
Empty



Snap the small metal tags 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.

TONE CONTROL

Man, that's extreme. Embrace the bottom end or simply turn it up high if it's too much for you.

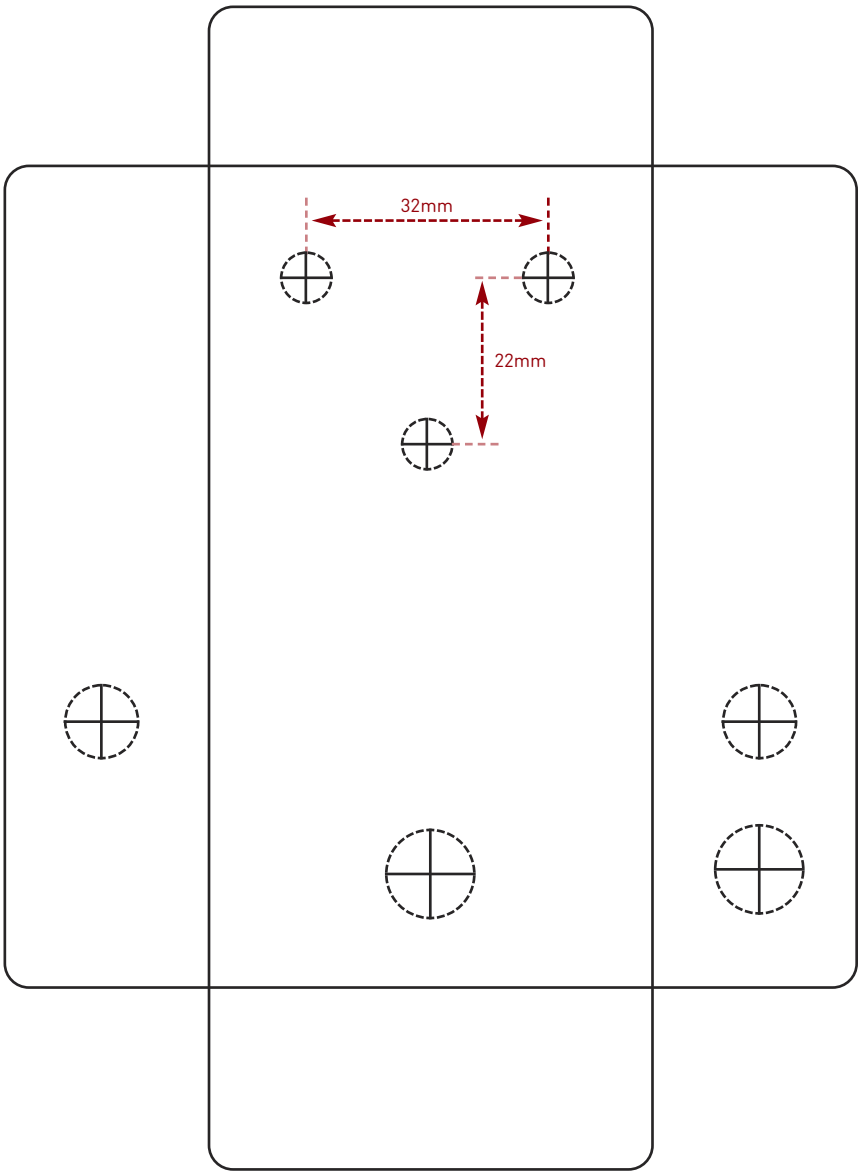
Drilling template

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.

FuzzDog.co.uk