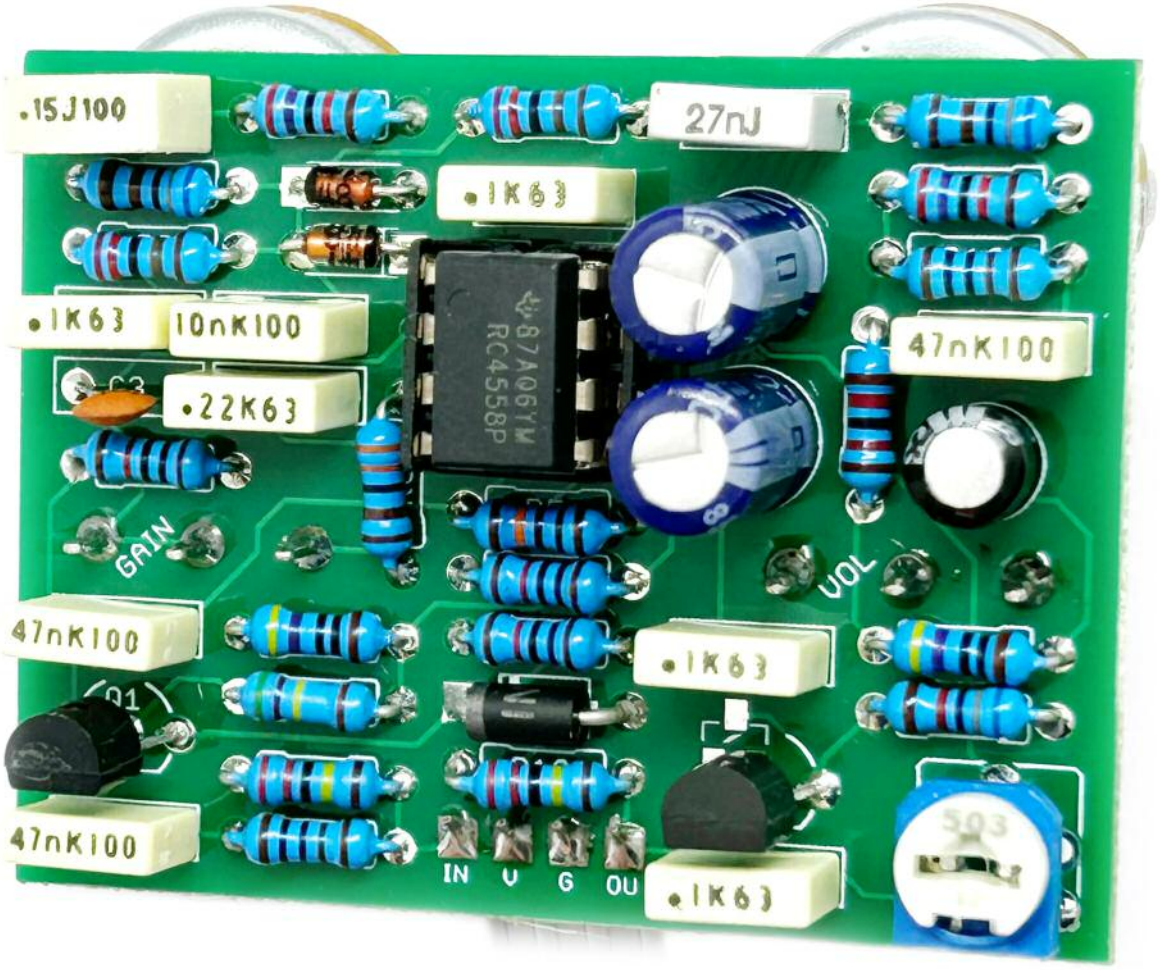
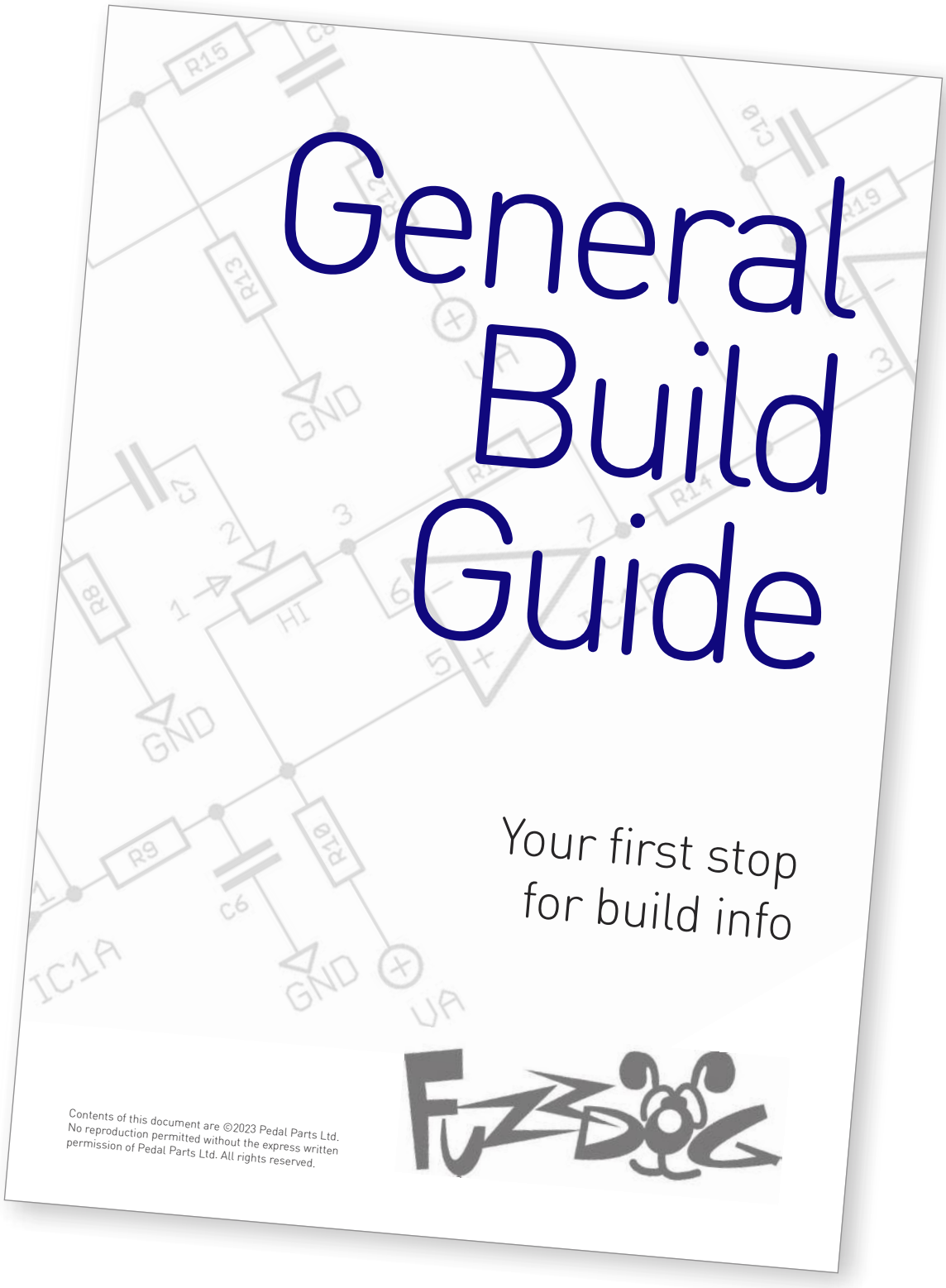


Trainwreck

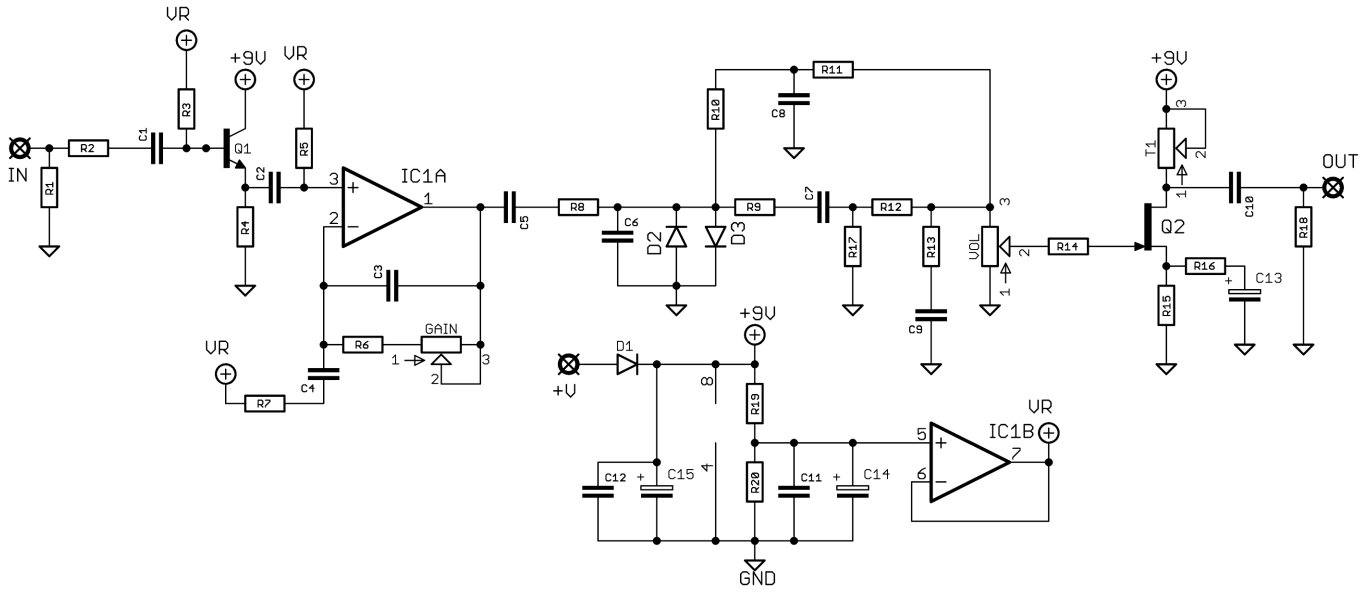
Express amp-in-a-box

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

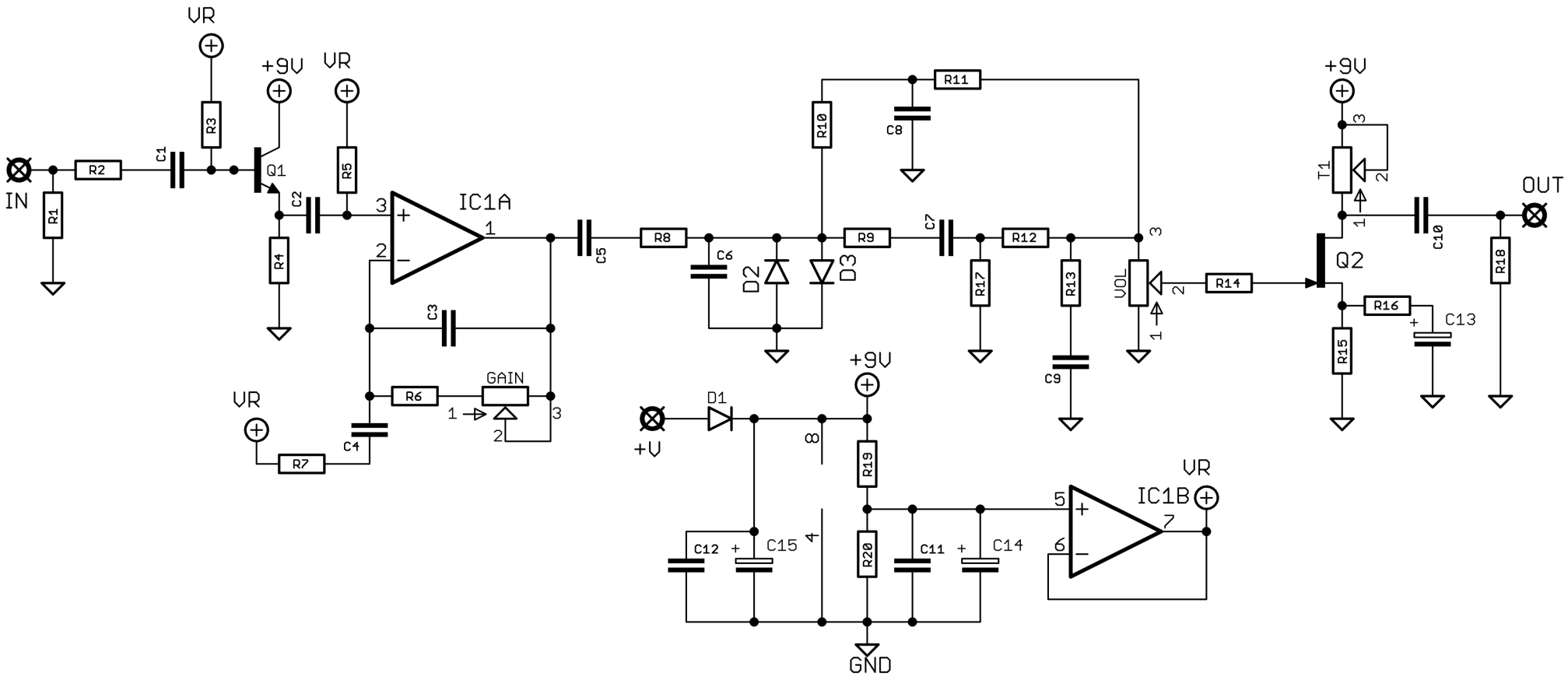
It contains all the information you need for a successful outcome.

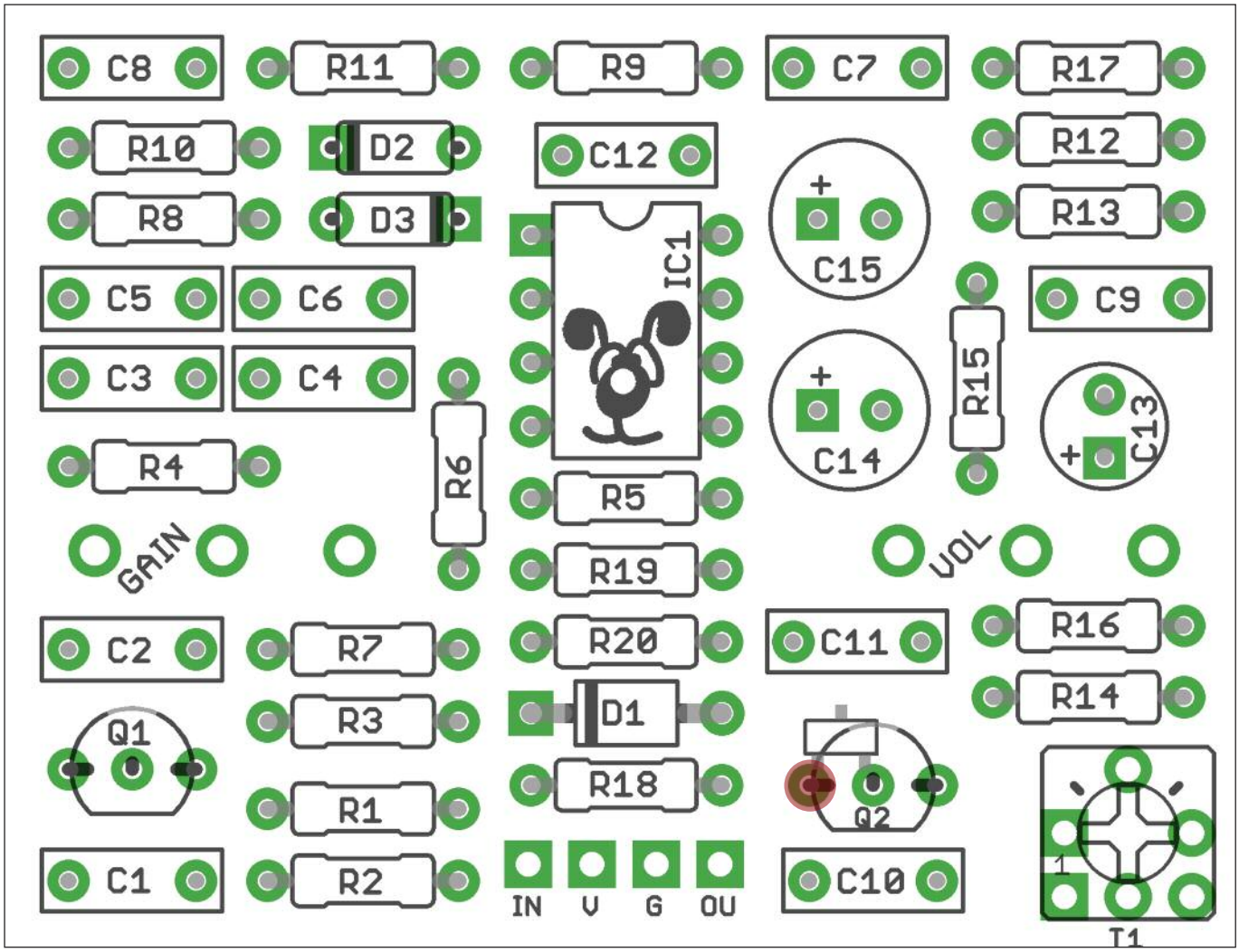


Schematic + BOM



R1	2M2	C1	47n	D1	1N5817
R2	1K	C2	47n	D2-3	1N4148
R3	510K	C3	220p		
R4	10K	C4	220n	Q1	2N5088
R5	100K	C5	100n	Q2	J201
R6	3K3	C6	10n		
R7	470R	C7	27n	IC1	4558
R8	2K2	C8	150n		
R9	2K2	C9	150n	GAIN	250KB
R10	6K8	C10	150n	VOL	50KB
R11	27K	C11	100n		
R12	27K	C12	100n	T1	50K trimmer
R13	1K	C13	10u elec		
R14	68K	C14	100u elec		
R15	12K	C15	100u elec		
R16	470R				
R17	6K8				
R18	2M2				
R19	10K				
R20	10K				


IN
R1
R2
C1
VR
R3
+9V
Q1
C2
VR
R5
R4
3
2
IC1A
1
C3
R6
GAIN
1
2
3
VR
C4
R7
C5
R8
C6
D2
D3
R10
C8
R11
R9
C7
R12
R17
R13
C9
VOL
3
2
1
R14
+9V
T1
3
2
1
Q2
C10
OUT
R18
R16
C13
R15
+V
D1
8
R19
+9V
C12
C15
4
R20
C11
C14
5
6
7
IC1B
VR
GND



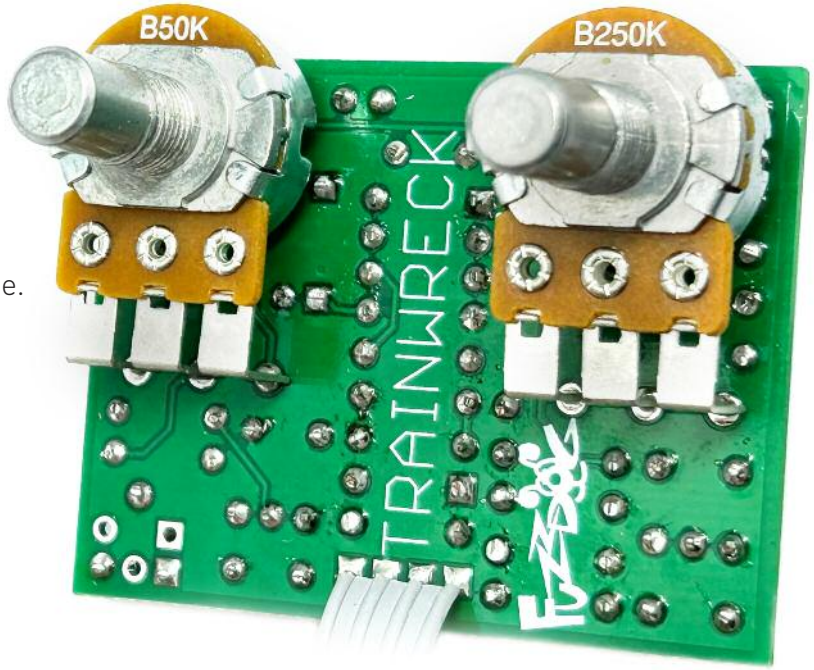
Snap the small metal tag off the pots so they can be mounted flush in the box.

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.

BIASING

The original has a fixed 20K resistor where we have a trimmer. Since FETs vary wildly there's no way you're going to get the same result from one to another with that fixed value. Test it with the trimmer in the centre position and tweak until you get a sound you like.



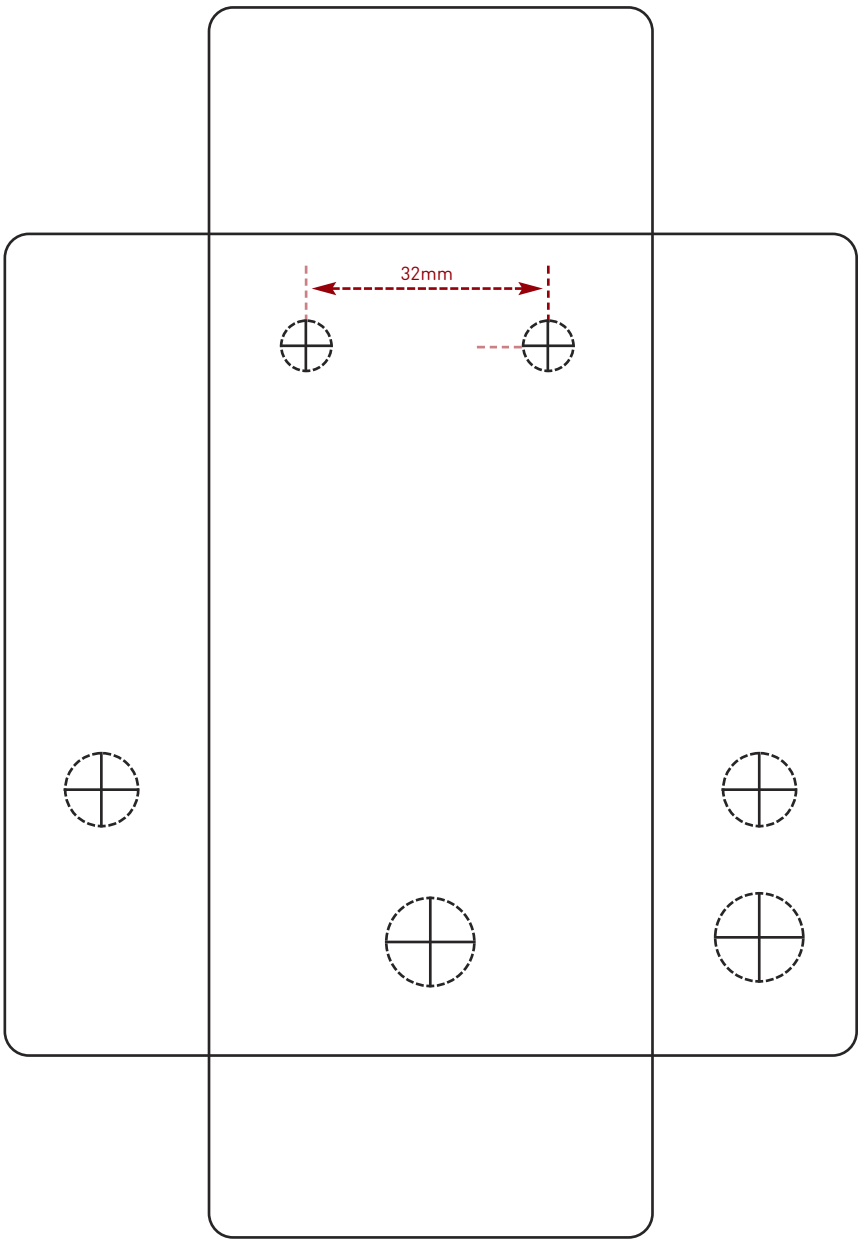
Drilling template

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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