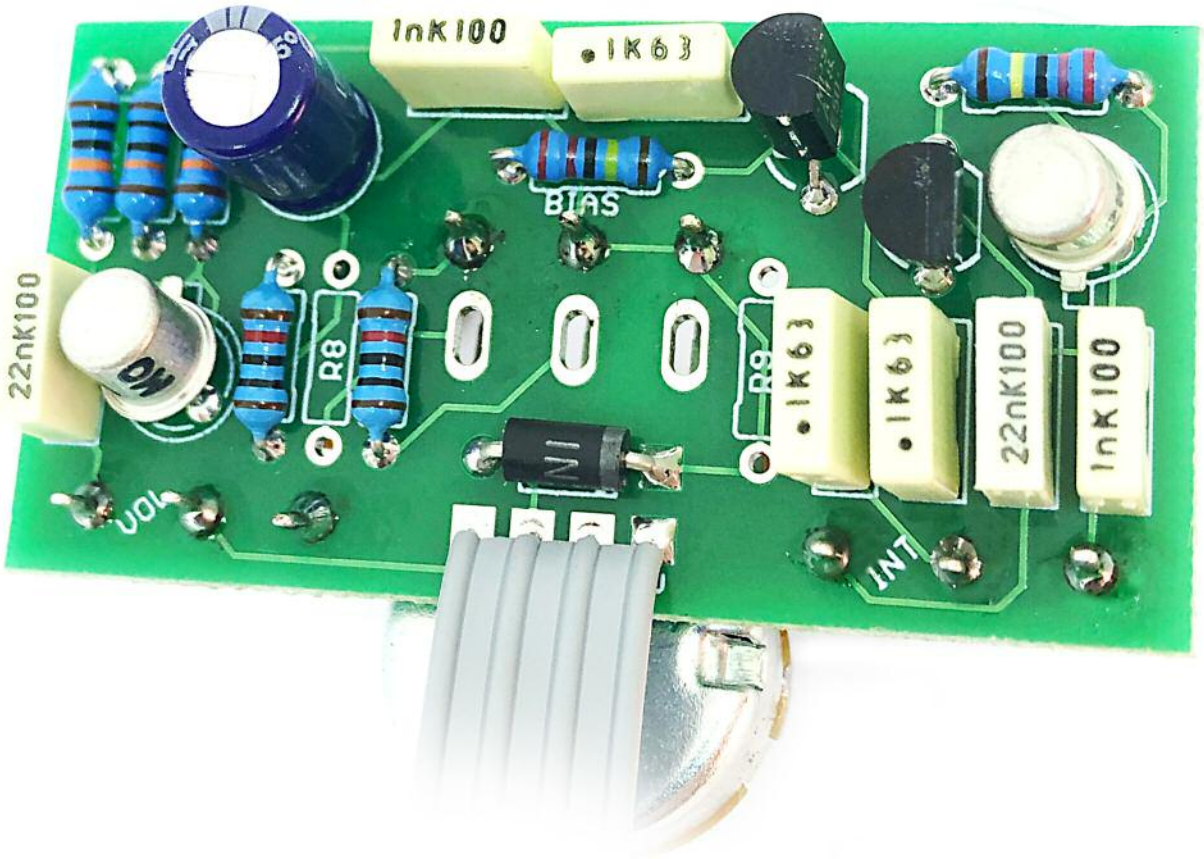
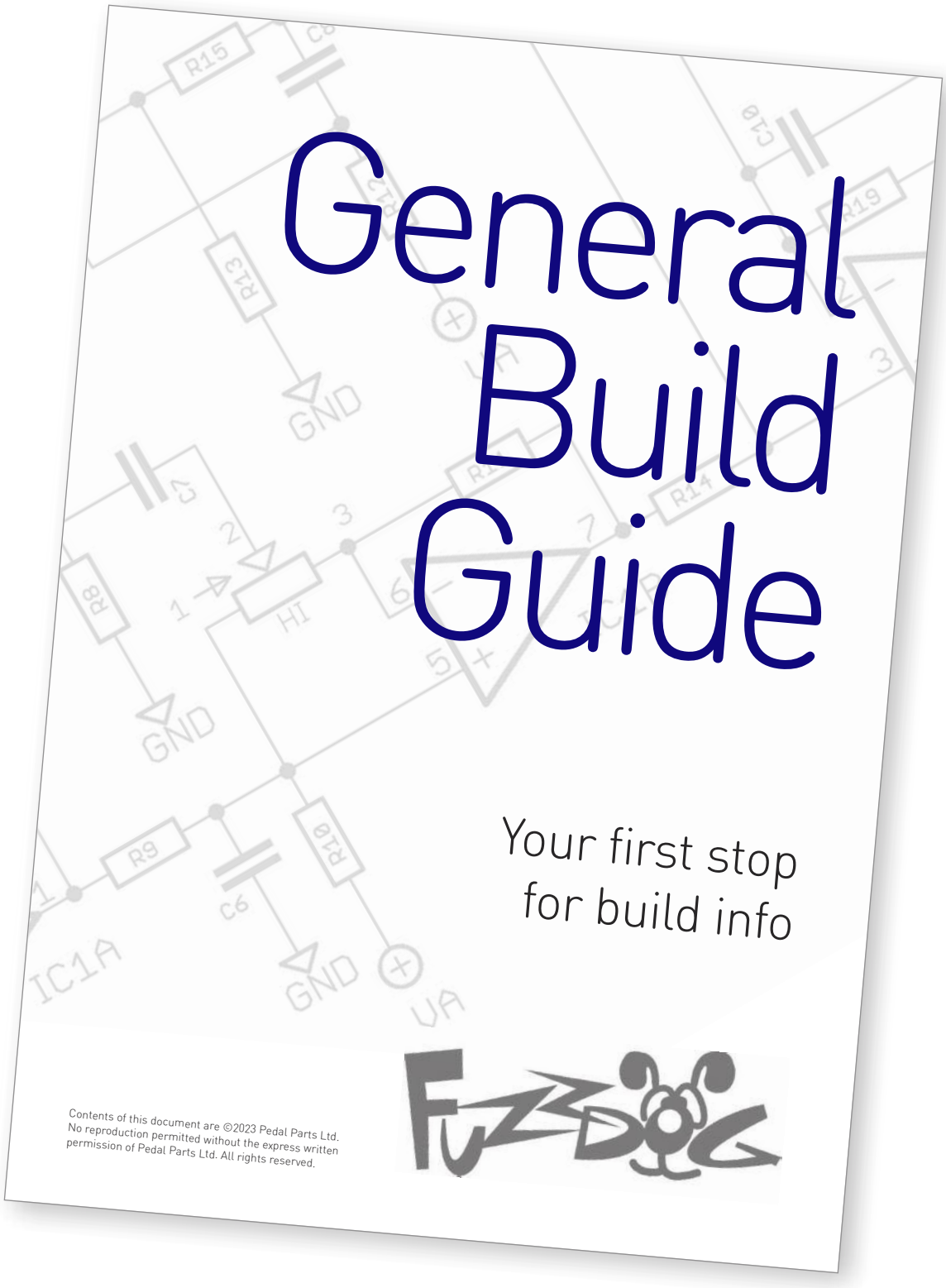


Cone Ripper V2

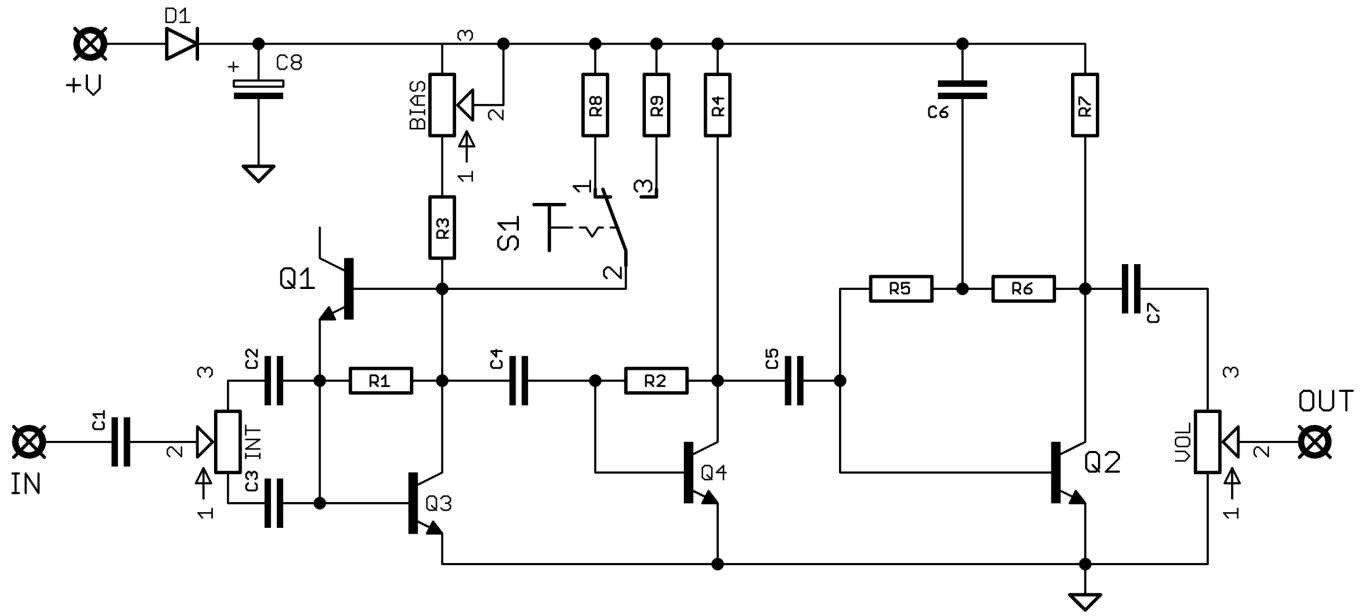
Broken-speaker overdrive and glitchy fuzz fun

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

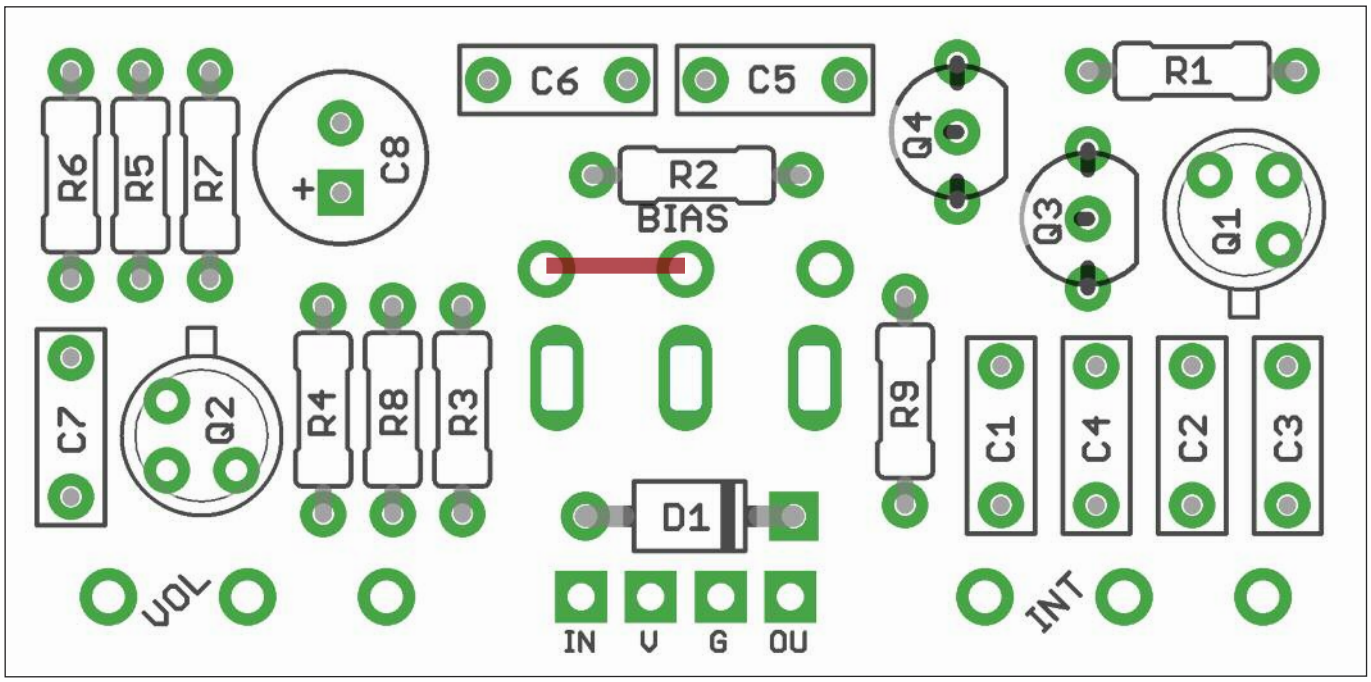


R1	2M2	C1	100n	D1	1N5817
R2	2M2	C2	22n		
R3	10K/220K*	C3	1n	Q1-2	2N2222
R4	10K	C4	100n	Q3-4	MPSA18
R5	100K	C5	100n*		
R6	100K	C6	1n	INT	500KC
R7	100K	C7	22n	VOL	100KA
R8	Empty/10K*	C8	100u elec	BIAS	Jumper/250KB*
R9	Empty/180K*				
				S1	SPDT ON-OFF-ON*

*For a standard Cone Ripper build follow the values in black. If you've chosen to build this circuit, you're doubtless aware the designer used the same PCBs to build several different pedals. To build accurate versions of these you need substitute parts as shown on the next page. Another option is to simply alter the bias of the circuit. You can do this with the BIAS pot, or have a three-way toggle for three fixed settings.

To add the BIAS pot, stick with R3 - 10K and add the 250KB pot.

For the three-way toggle, R3 - 220K, R8 - 10K, R9 - 180K. Jumper BIAS as shown overleaf.

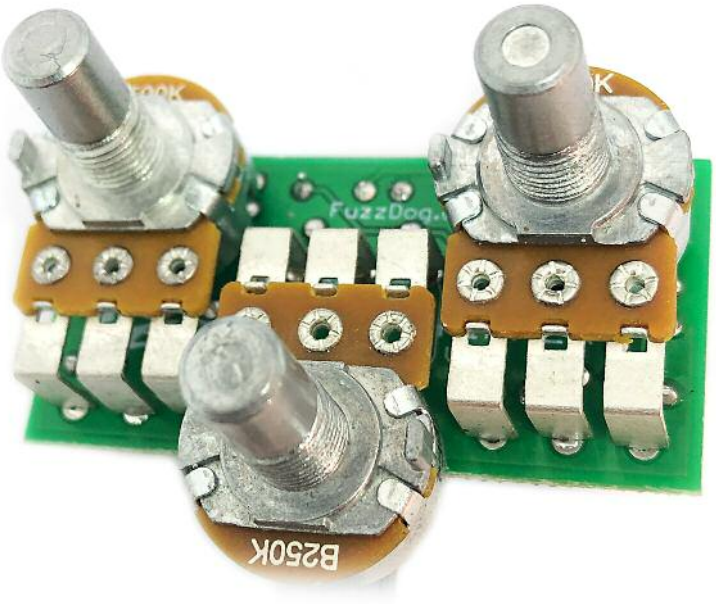


Snap the small metal tag off the pots so they can be mounted flush in the box.

You should solder all other board-mounted components before you solder the pot. Once they're in place you'll have no access to much of the board.

If you're including the BIAS pot you should place your ribbon cable (if using one) on the component side of the PCB so it doesn't interfere with this.

If you're not using the BIAS pot, place a jumper across the pads as marked in red above. This is the case whether you're using the toggle switch or not.



Versions

Butt Flush Fuzz

Ridiculously high-gain, noisy fuzz.

Change **R3** to 100K

American Octave

Tight, gated high-gain fuzz.

Change **R3** to 220K and **C5** to 10n.

Leave out **R5, R6, C6**

No Way Drive

Crazy high-gain fuzz with a pronounced octave-up.

Reverse the orientation of **Q1** and **Q2**

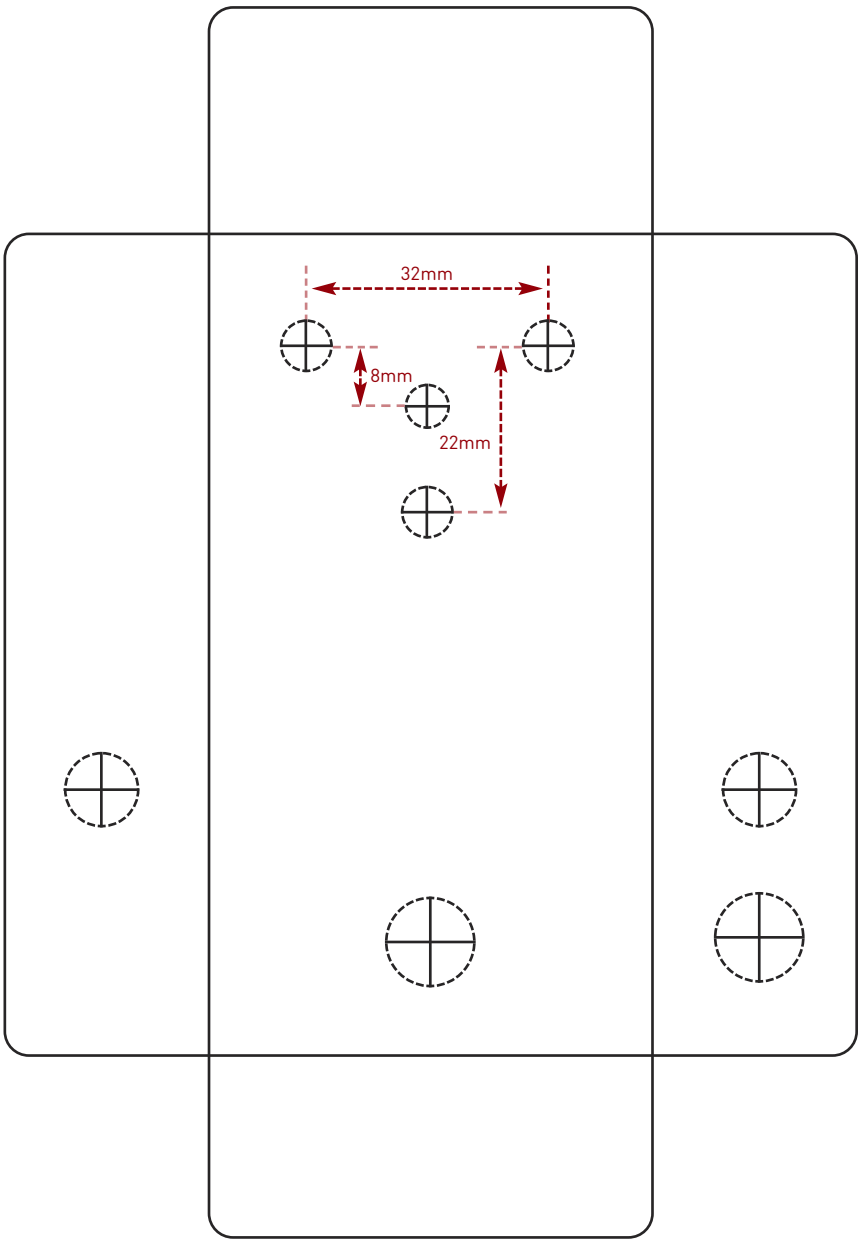
Drilling template

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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