

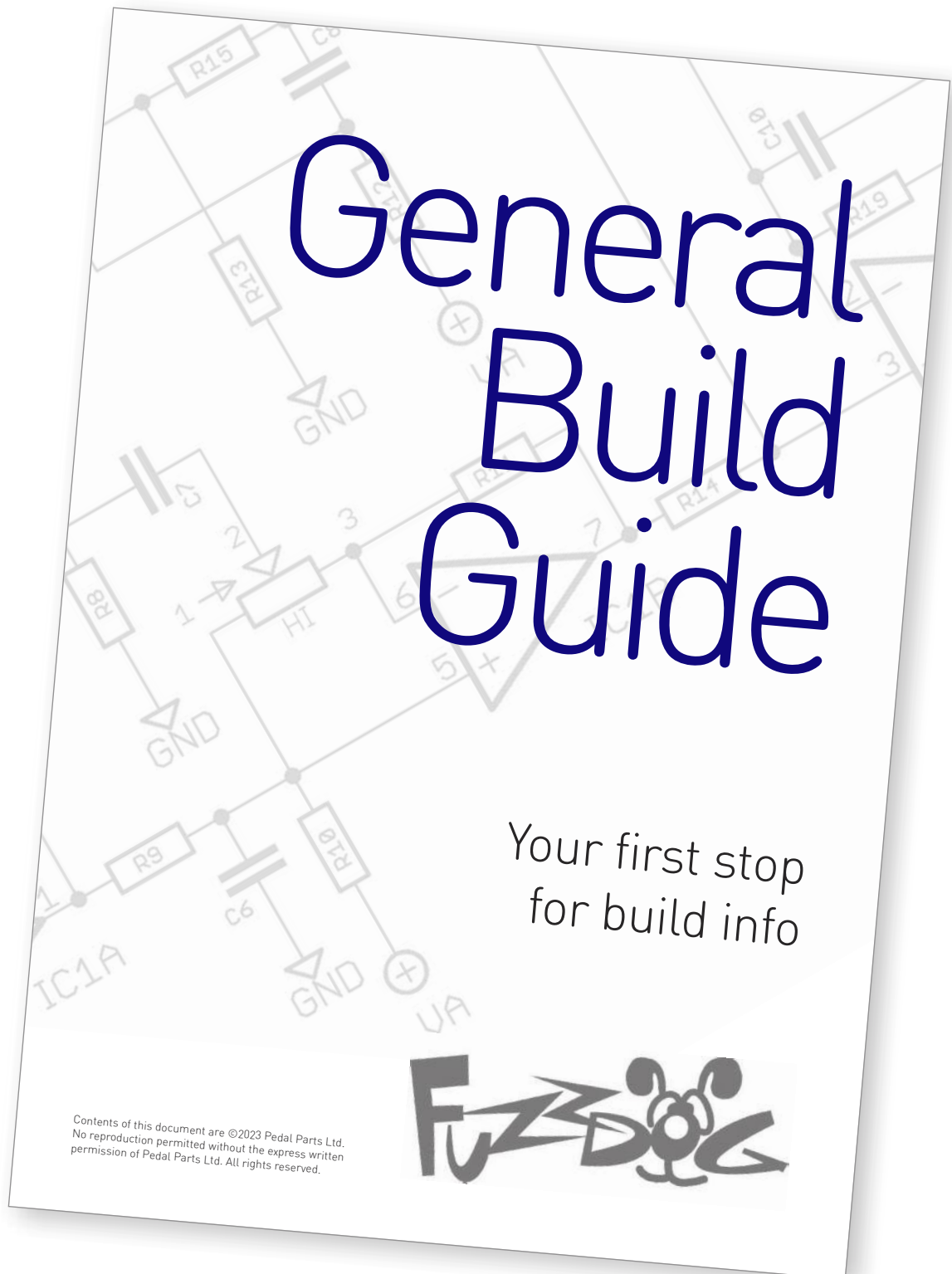
FY2 Companion Fuzz

A lot of nasty-ass fuzz
with a bonus post-boost

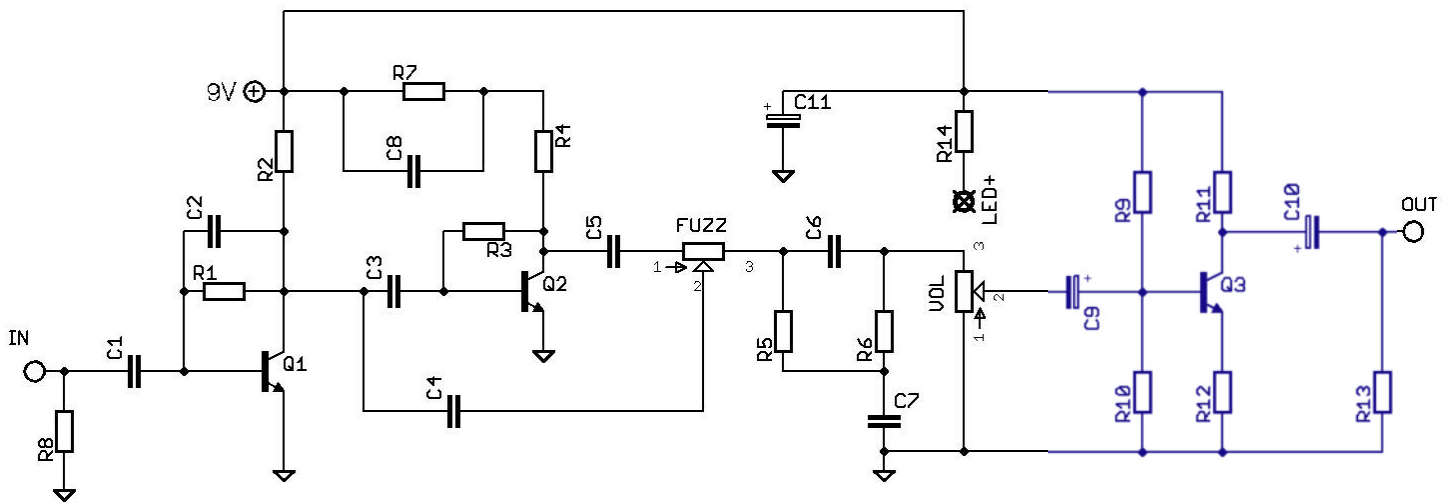


Before you dig in, ensure you download and read the **General Build Guide**.

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



Schematic + BOM



Components shown in blue on the schematic are the LPB post-boost circuit. You can make this boost really loud (standard LPB) which will hit unity at around a quarter turn of the volume pot, or keep it quieter with the values in shown in green, which is more like a Big Muff gain recovery stage.

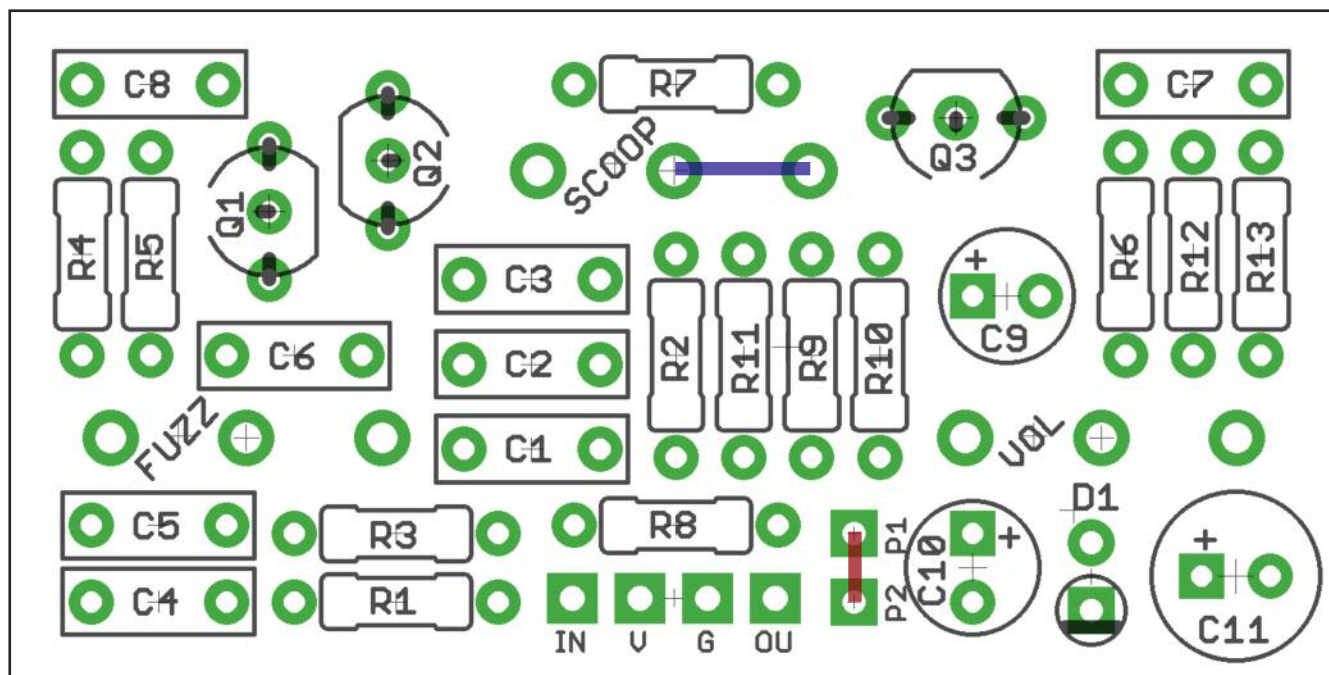
To make it without the boost, leave out the blue components and place a jumper wire as detailed on the next page.

If you aren't adding the Scoop pot place a jumper across pads 2 and 3 - see next page.

BOM

R1	2M2				
R2	22K				
R3	1M				
R4	47K				
R5	10K				
R6	15K				
R7	100K				
R8	1M				
R9	470K	470K			
R10	47K	100K			
R11	10K	10K			
R12	390R	2K2			
R13	100K	100K			
R14	CLR (2K2)				
		C1	47n		
		C2	1n		
		C3	47n		
		C4	2n2		
		C5	3n3		
		C6	1n		
		C7	100n		
		C8	47n		
		C9	10u		
		C10	10u		
		C11	100u		
		Q1,2		Low gain silicon NPN (2N3904, 2N2222 etc)	
		Q3		2N3904	
		VOL		50KB	
		FUZZ		50KB	
		SCOOP		5KB	
		D1		1N4001	

See notes overleaf about pads P1 and P2.



The power and signal pads on the PCB conform to the FuzzDog Direct Connection format, so can be paired with the appropriate daughterboard for quick and easy offboard wiring. Check the separate daughterboard document for details.

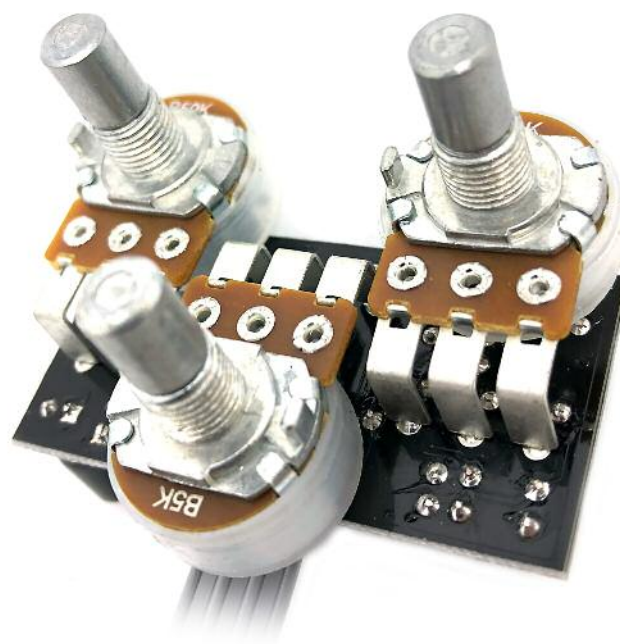
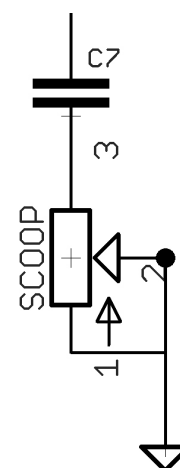
Be careful when soldering the transistors and diode. They don't like prolonged exposure to heat. Use a heatsink on each leg in turn (croc clip, self-closing tweezers, etc), or keep your iron on there for no more than a couple of seconds at a time.

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. Make sure your pots all line up nicely. The best way to do that is to solder a single pin of each pot in place then melt and adjust if necessary before soldering in the other two pins. If your pots don't have protective plastic jackets ensure you leave a decent gap between the pot body and the PCB otherwise you risk shorting out the circuit.

If you're making the circuit without the LPB post-boost add a jumper wire between pads P1-2 as shown in red above.

If you're not including the Scoop control add a jumper wire between pads as shown in blue above.



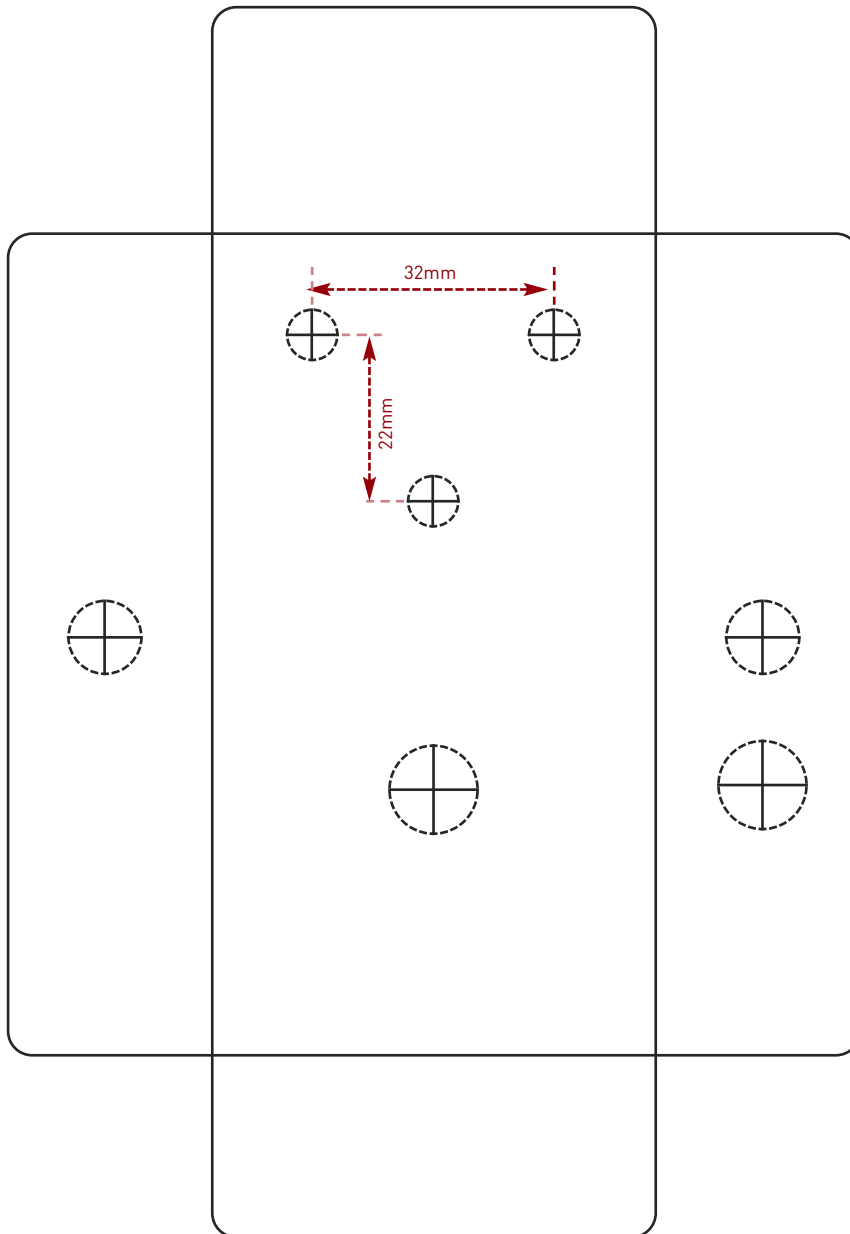
Drilling template

Hammond 1590B
60 x 111 x 31mm

Recommended drill sizes:

Pots	7mm
Jacks	10mm
Footswitch	12mm
DC Socket	12mm

It's a good idea to drill the potholes 1mm bigger if you're board-mounting them.
Wiggle room = good!



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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