

# Snuggle

Mighty overdrive with  
handy sagged mode

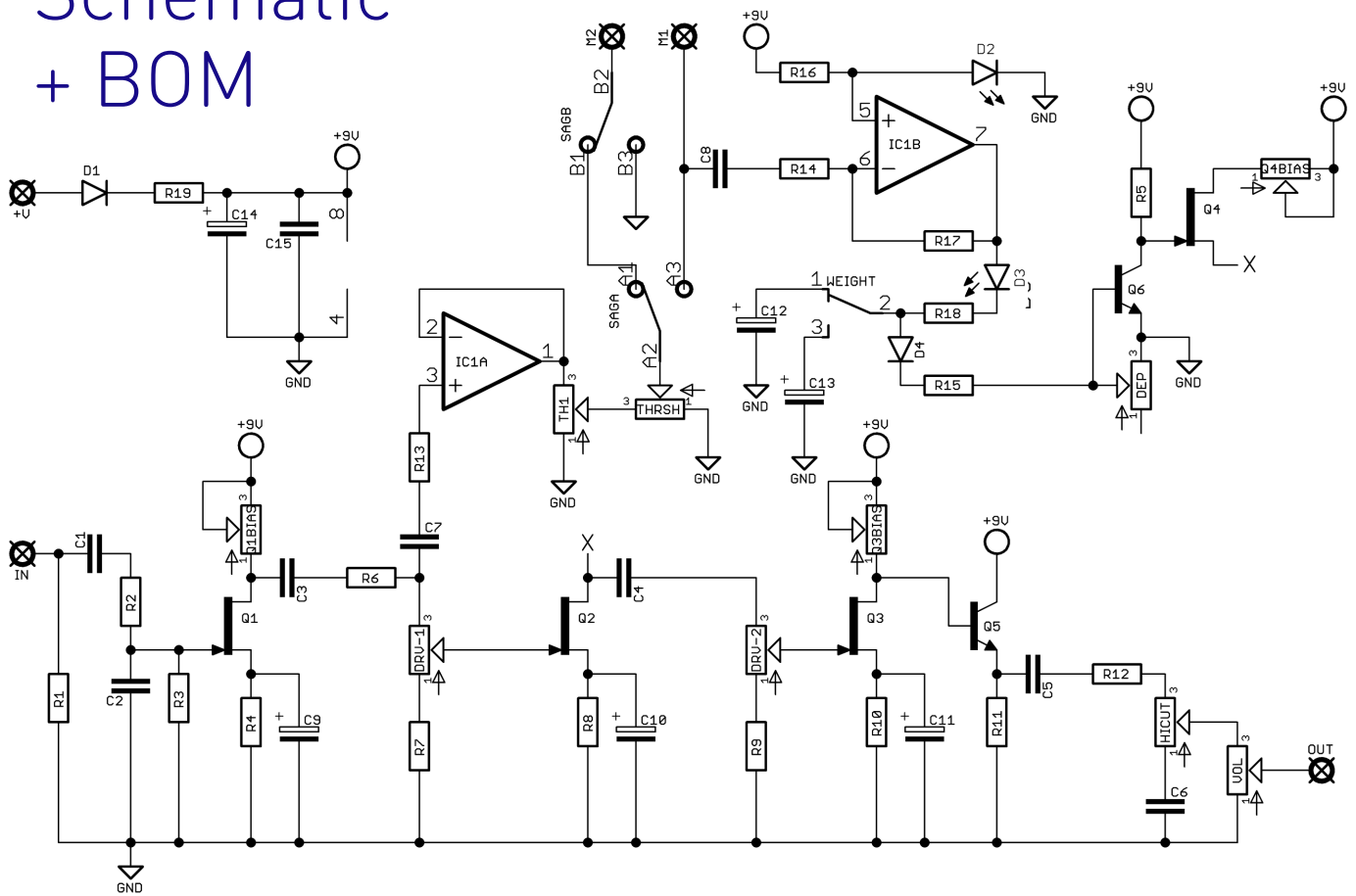


Before you dig in, ensure you download and read the **General Build Guide**.

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



# Schematic + BOM

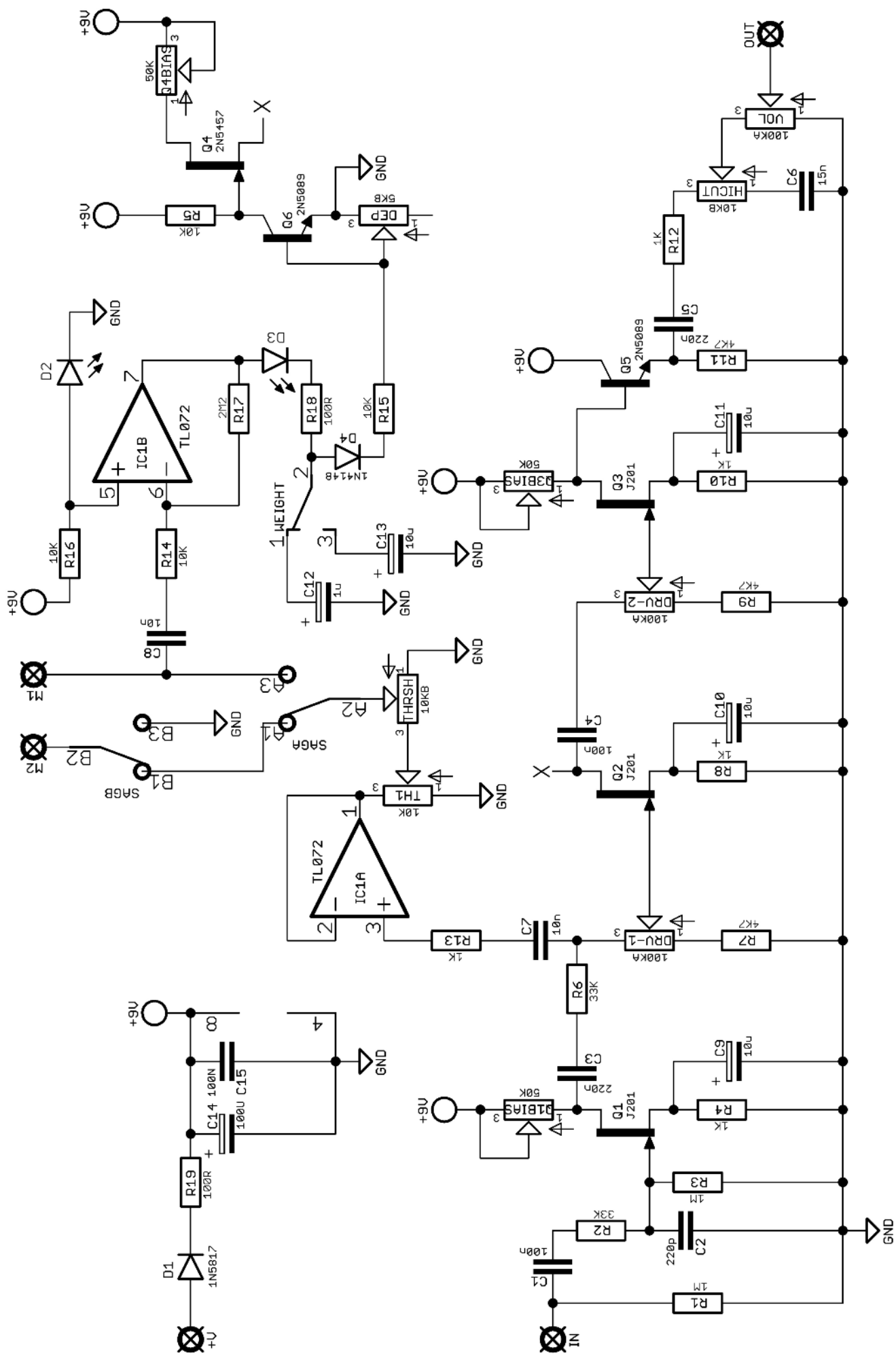


R1	1M	C1	100n	D1	1N5817
R2	33K	C2	220p	D2	3mm yellow LED
R3	1M	C3	220n	D3**	3mm red LED
R4	1K	C4	100n	D4	1N4148
R5	10K	C5	220n	DEPTH	5KB***
R6	33K	C6	15n	DRIVE	100KA Dual Gang
R7	4K7	C7	10n	HICUT	10KB
R8	1K	C8	10n	THRESH	10KB
R9	4K7	C9	10u elec	VOL	100KA
R10	1K	C10	10u elec	Q1-3 BIAS	50K trimmer
R11	4K7	C11	10u elec	TH1	10K trimmer
R12	1K	C12	1u elec	SAG	DPDT ON-ON
R13	1K	C13	10u elec	WEIGHT	SPDT ON-ON
R14	10K	C14	100u elec		
R15	10K	C15	100n		
R16	10K				
R17	2M2				
R18	100R				
R19	100R				
Q1-3	J201*	IC1	TL072		
Q4	2N5457*				
Q5-6	2N5089				

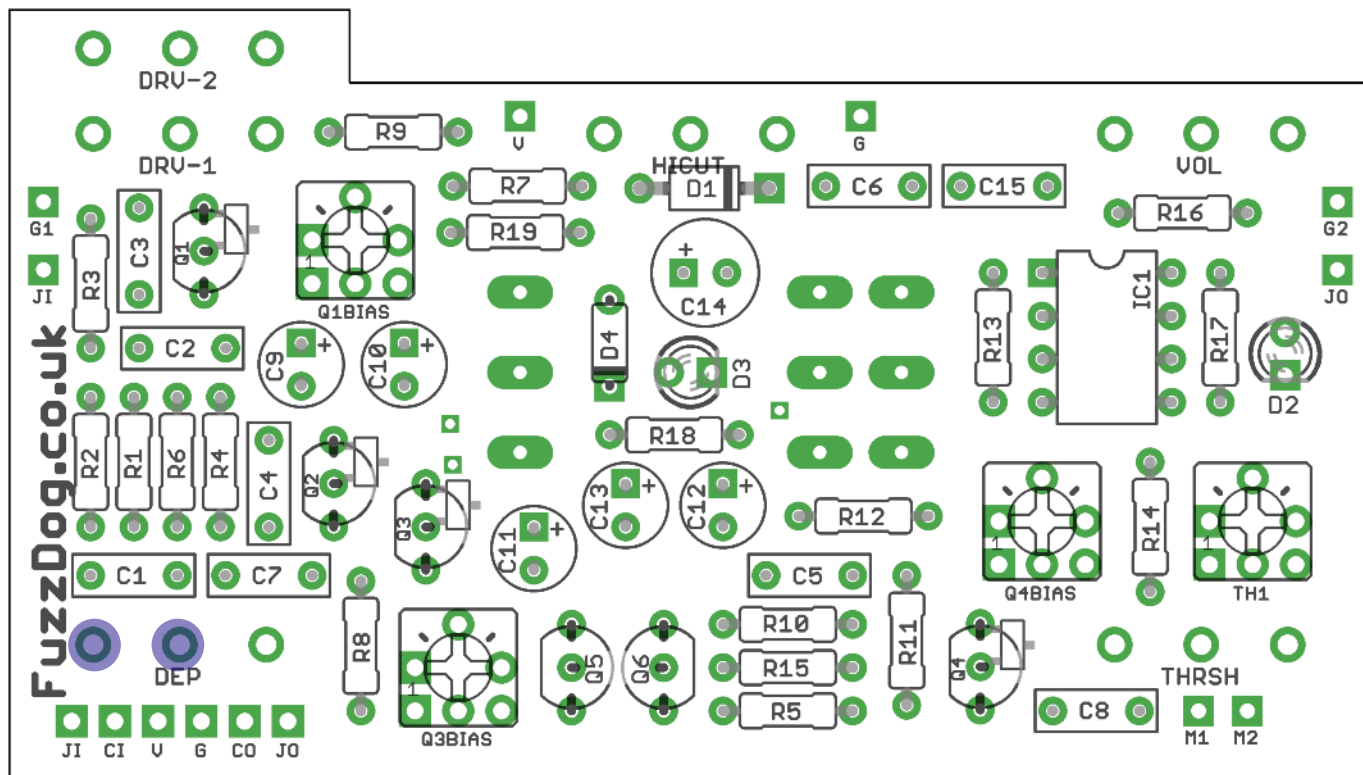
\*There are pads for through-hole or SMT parts for these.  
The SMT versions are MMBFJ201 and MMBF5457.

\*\*External threshold indicator LED.

\*\*\*Fixed 1K5 resistor in original. Feel free to replace.







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

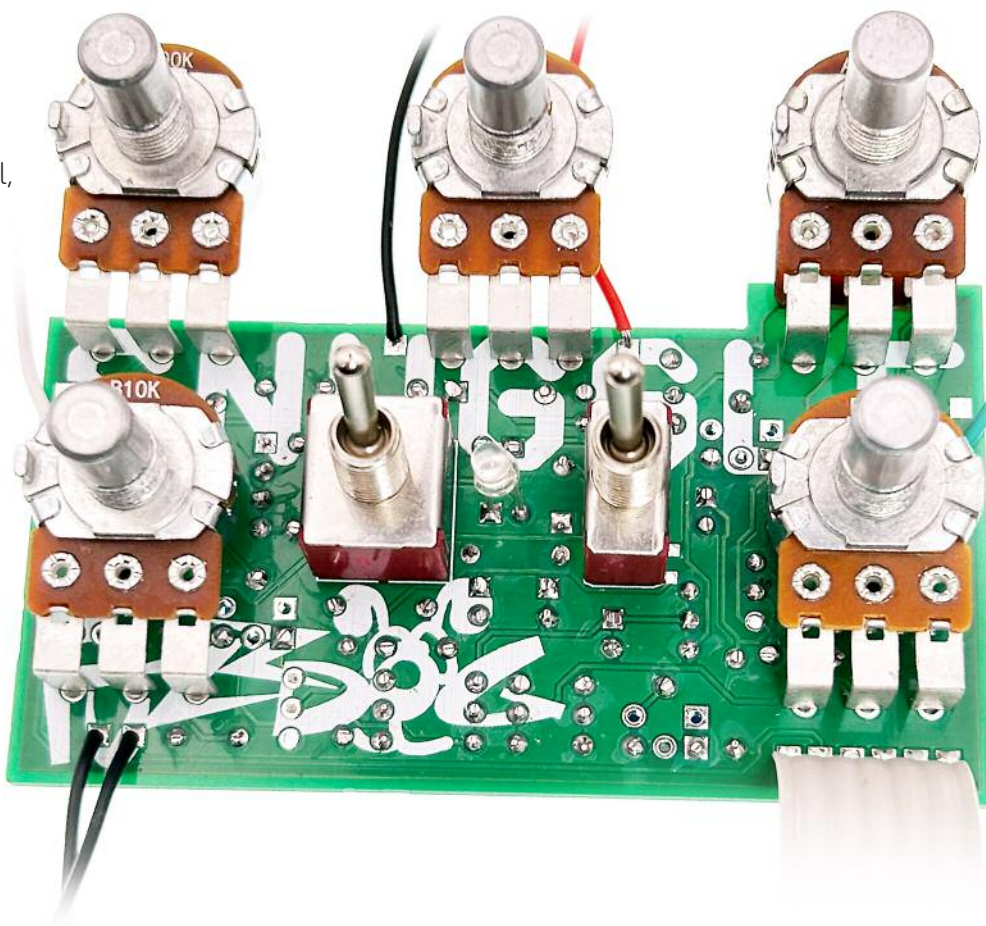
You should solder all other board-mounted components before you solder the pots.

Once they're in place you'll have no access to much of the board.

The SAG footswitch should be a momentary SPST, normally open footswitch.

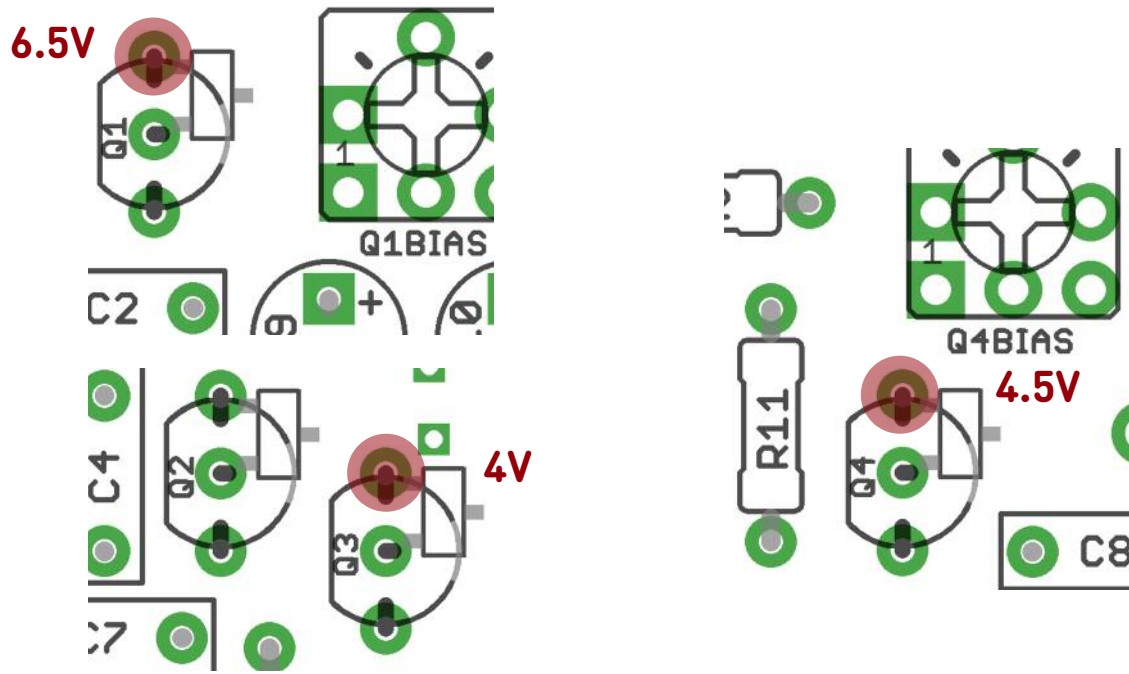
With the SAG toggle in the up position, this turns OFF the sag function. With it down, it engages it.

If you want to replace the Depth pot with a fixed resistor as per the original, mount it across the two pads marked in blue above.



# Biasing the FETs

Adjust the appropriate trimmers until you get readings close to those shown below. To measure, set your multimeter to DC Voltage, place the common probe on any ground point, and the + lead to the spot you're testing. Measure with GAIN set to zero and SAG toggle in the down position. Don't get \*too\* hung up on numbers. If it sounds good, good.

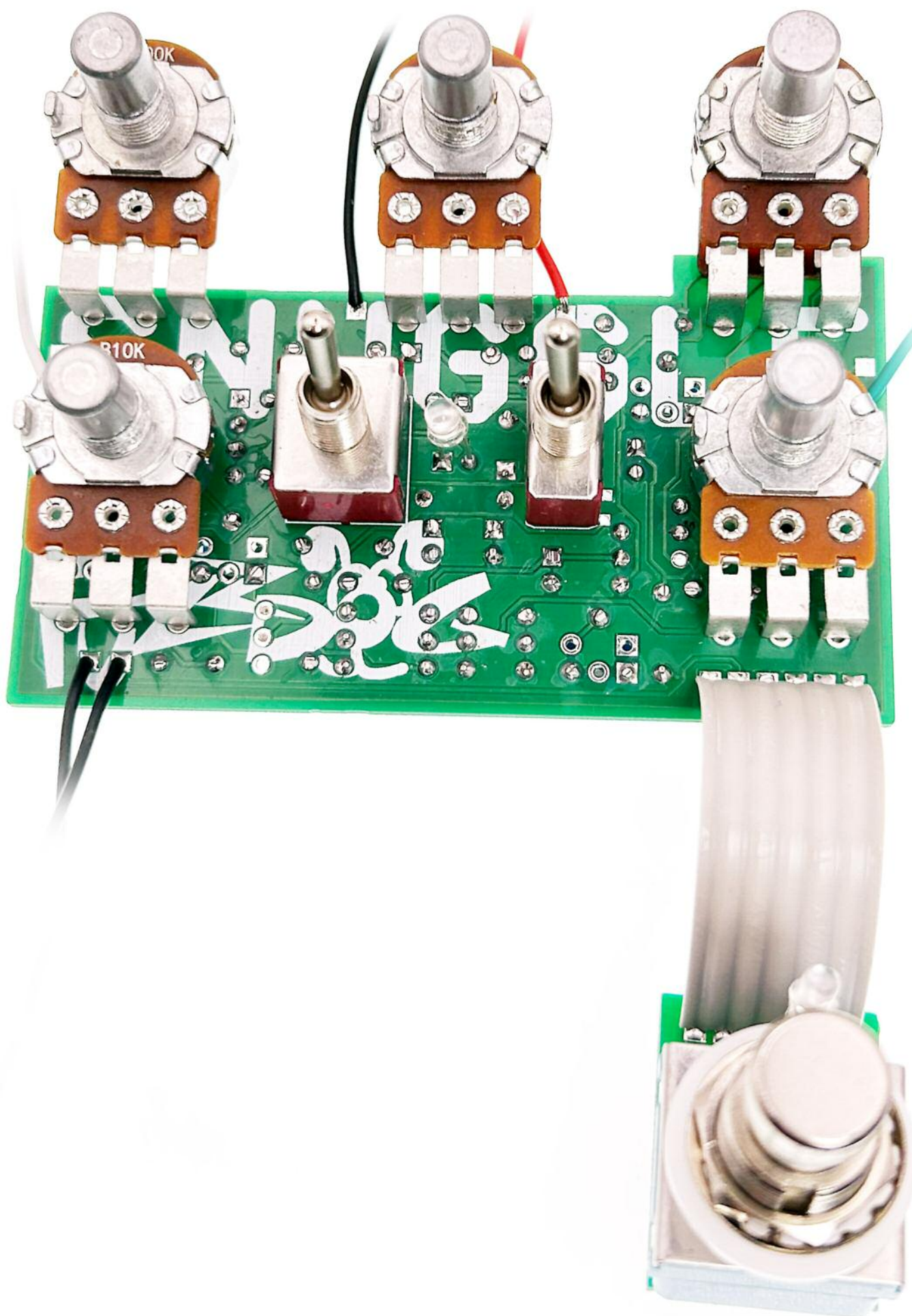


## Adjusting SAG

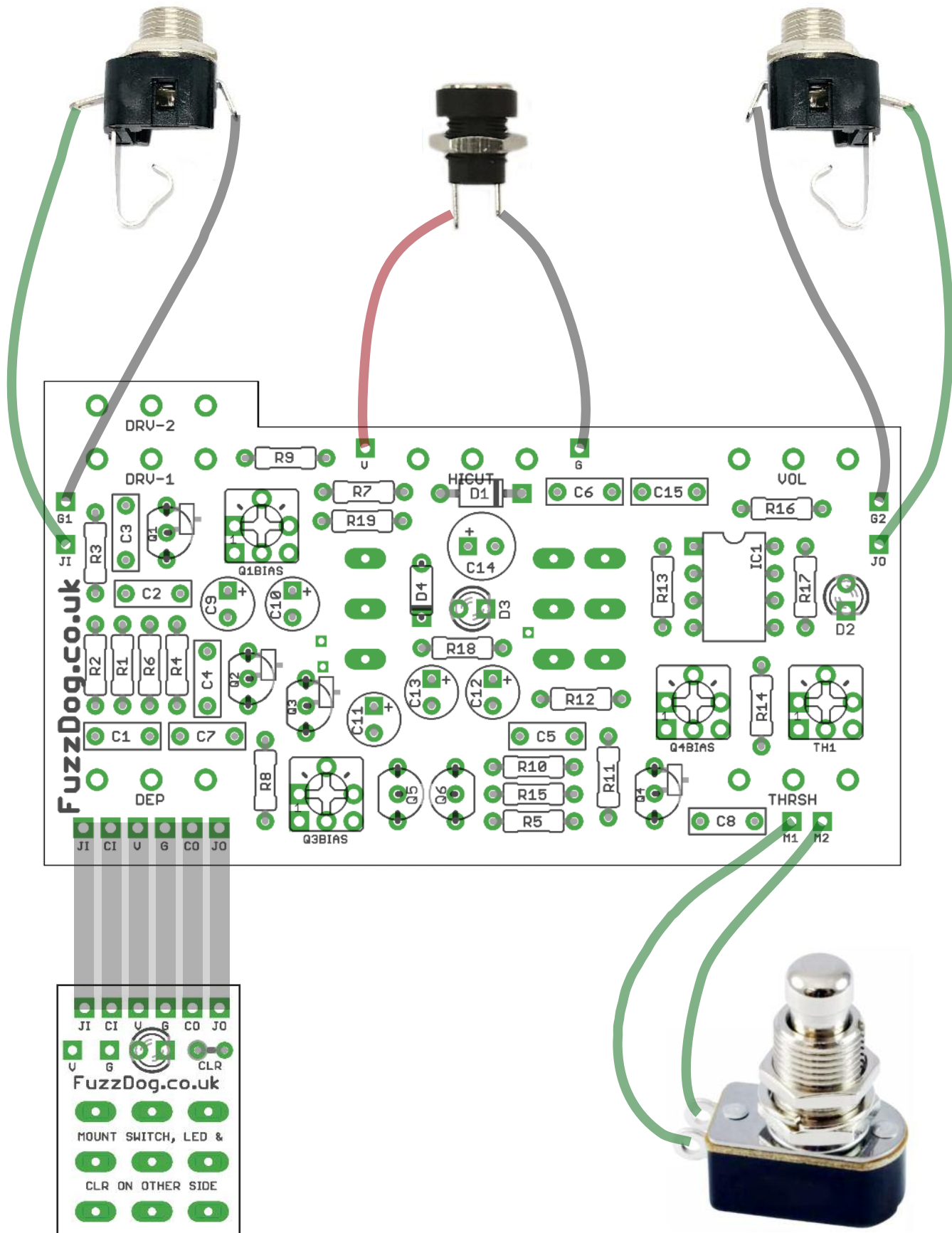
Set SAG mode on - toggle switch up. Set GAIN, THRESH and DEPTH to 12 o'clock.

Strum a chord and check how D3 responds. Adjust the trimmer TH1 until doing this lights up the LED for 3-4 seconds. From there simply adjust to your taste. Some people like things saggier than others.





# Wiring





# Drilling template

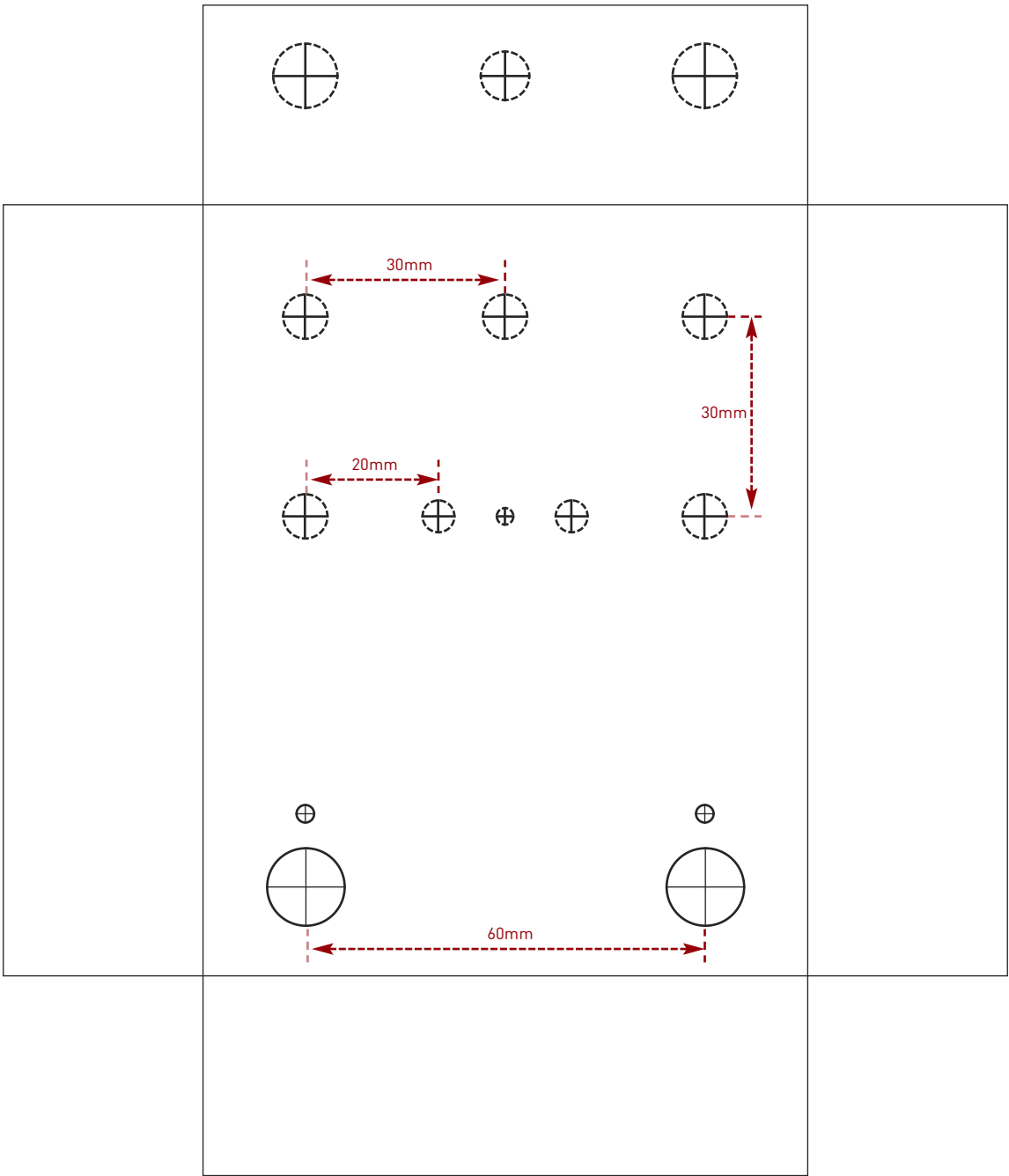
## Hammond 1590BB

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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