

18 Watt

RunOffGroove Eighteen -
Marshall 18 Watt-in-a-box

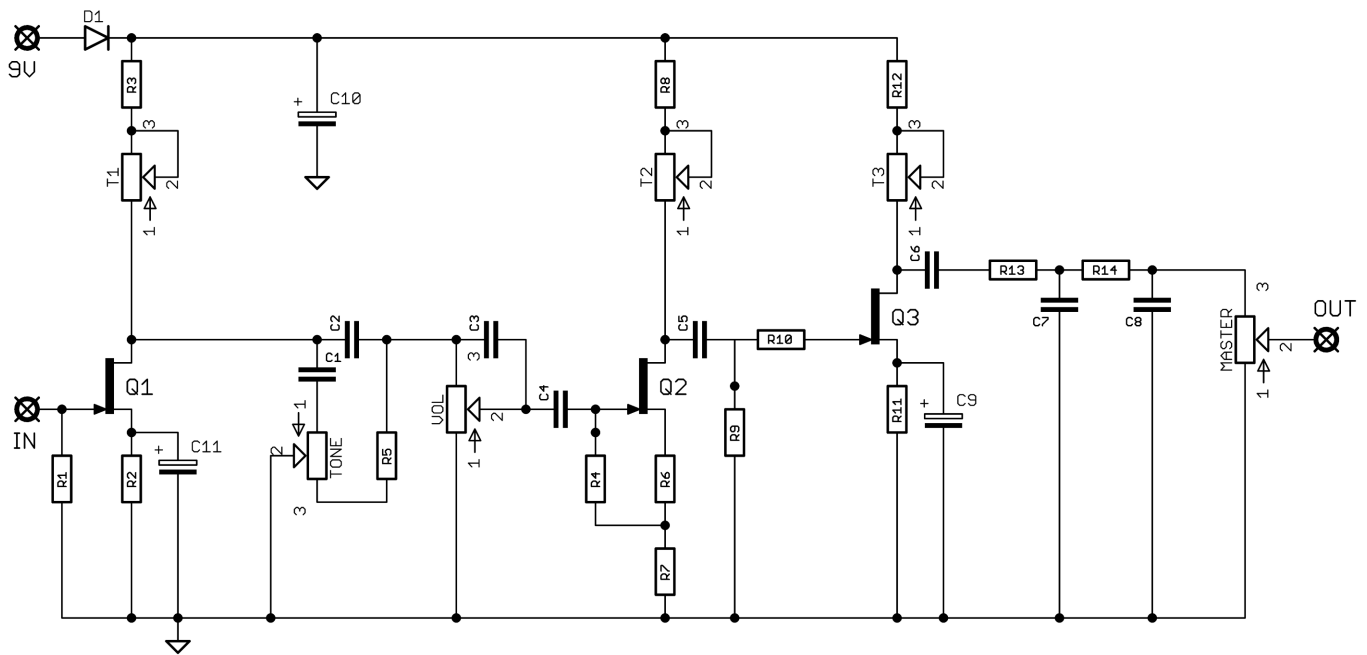


Before you dig in, ensure you download and read the **General Build Guide**.

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



Schematic + BOM

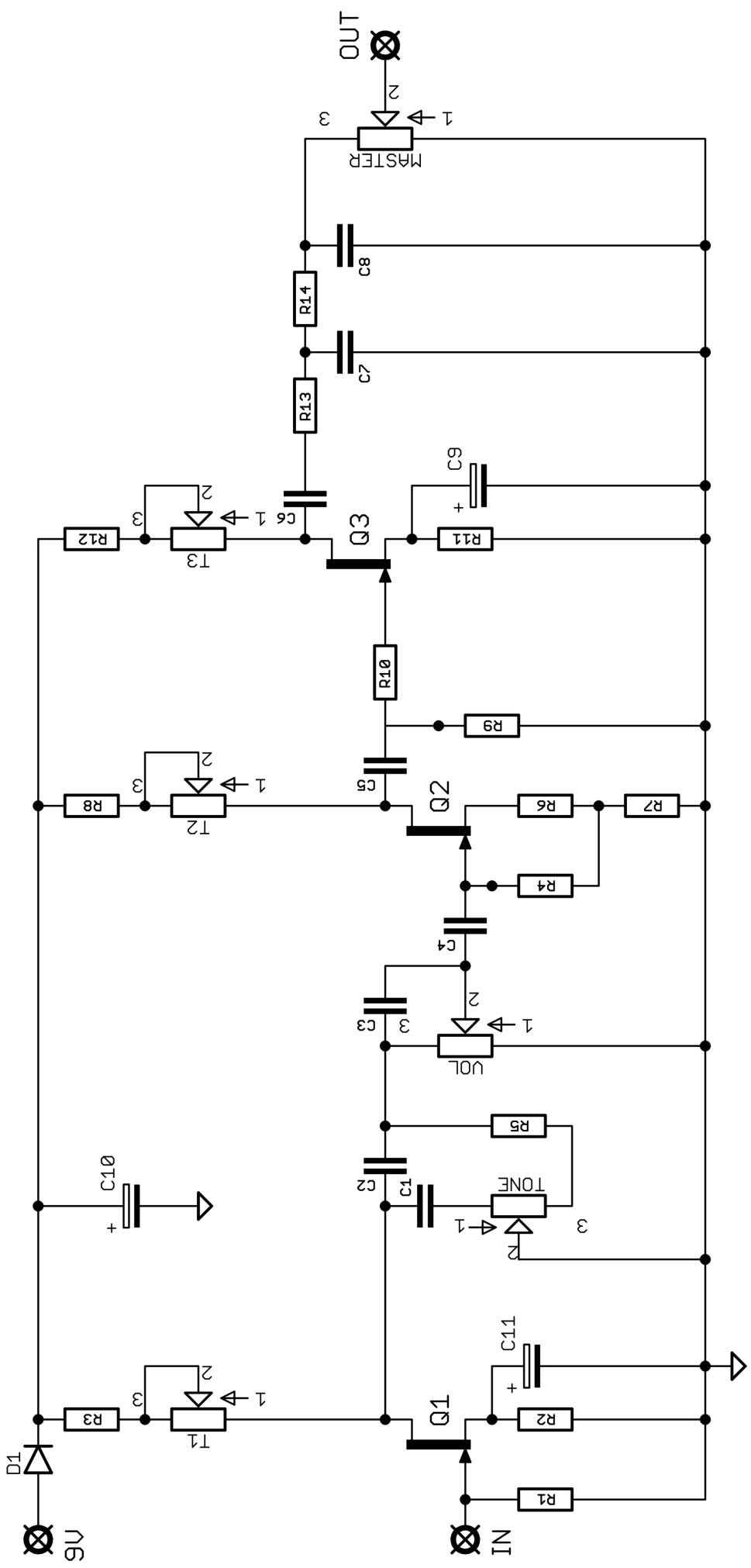


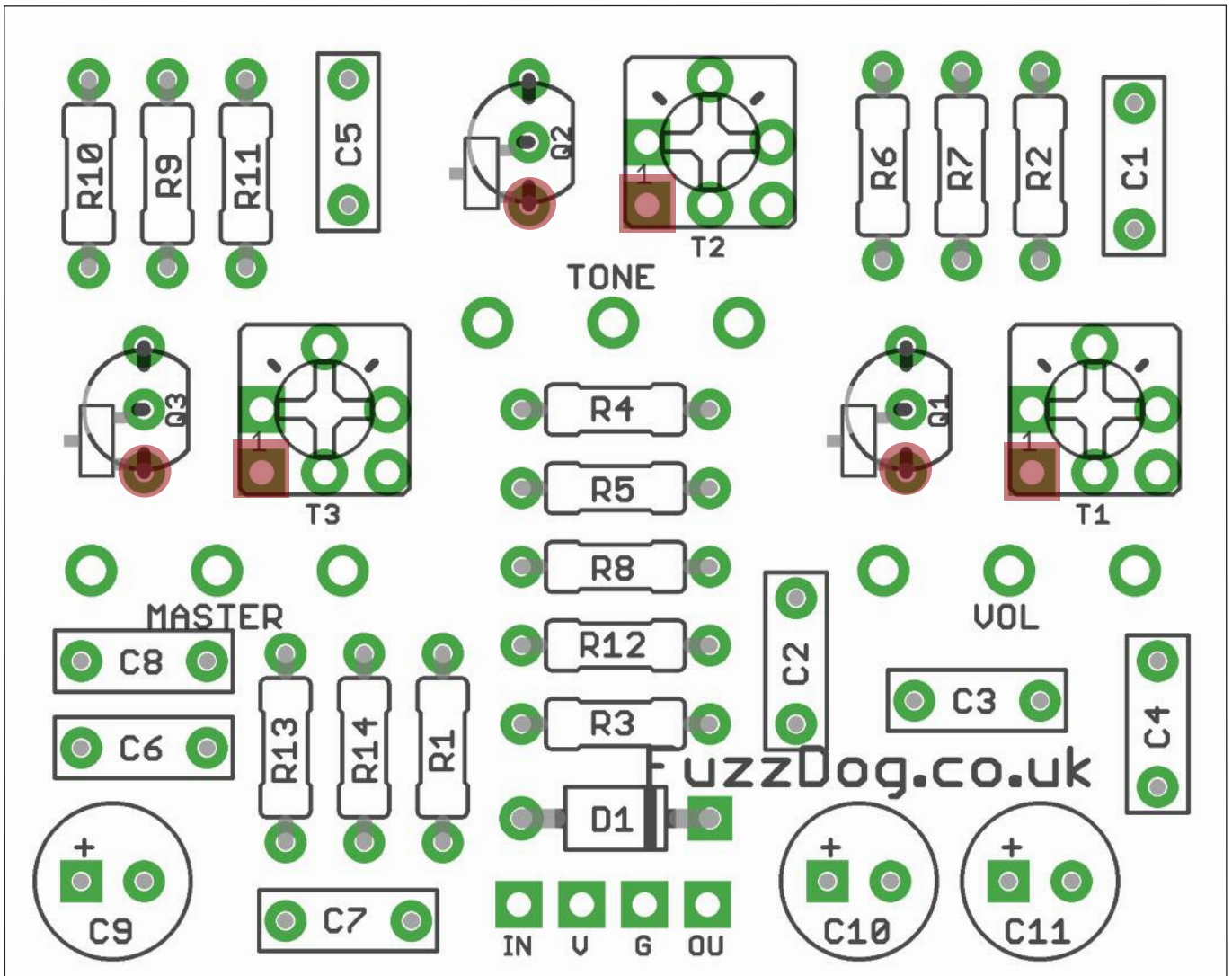
R1	1M	C1	10n	D1	1N5817
R2	820R	C2	4n7	Q1-3	J201*
R3	1K	C3	220p	VOL	500KA
R4	470K	C4	10n	TONE	500KA
R5	100K	C5	10n	MAST	100KA
R6	820R	C6	15n	T1-3	100K+**
R7	8K2	C7	2n2		
R8	1K	C8	2n2		
R9	470K	C9	47u elec		
R10	8K2	C10	100u elec		
R11	120R	C11	47u elec		
R12	1K				
R13	15K				
R14	15K				

*Through hole or the SMT version can be used.

For J201 the equivalent is MMBFJ201. Will also work well with other FETs, such as 2N5457.

**Multiturn trimmers are recommended as very small tweaks of the bias will make a big difference. As these have 13 turns of adjustment it's fine to use a larger value than 100K.





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

Adjust your trimmers to get around 4.5V on the drain of Q1 and Q3, 7V on Q2.

Once you get there you can tweak to taste.

To do this set your multimeter to DC Voltage. Place the common (-) lead on the ground pad, the + lead on the drain of the FET being tweaked, or the leg of the trimmer in each case, marked in red above.



Drilling template

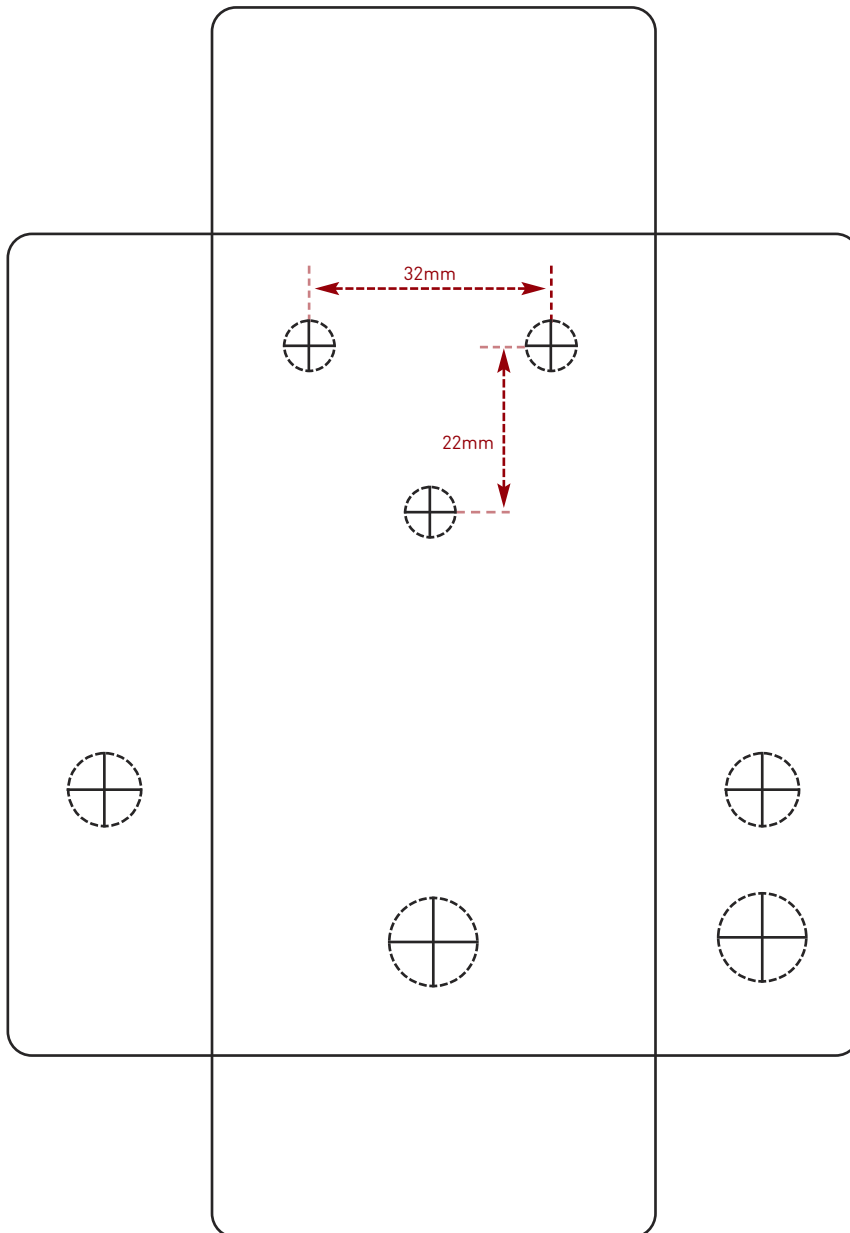
Hammond 1590B - 60 x 111 x 31mm

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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