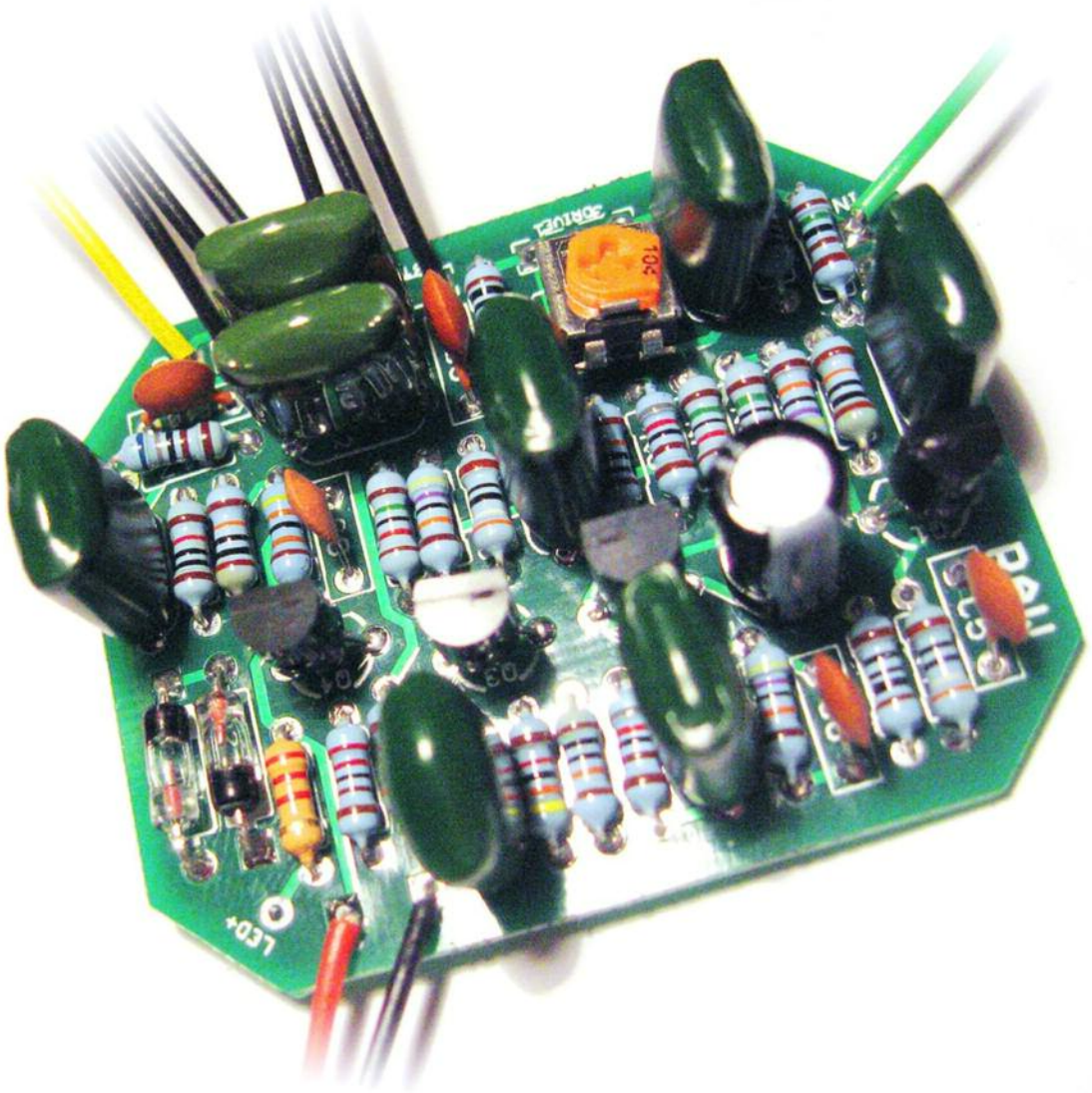

RAW Fuzz V1

Clone of the
DBA Fuzz War (first model)

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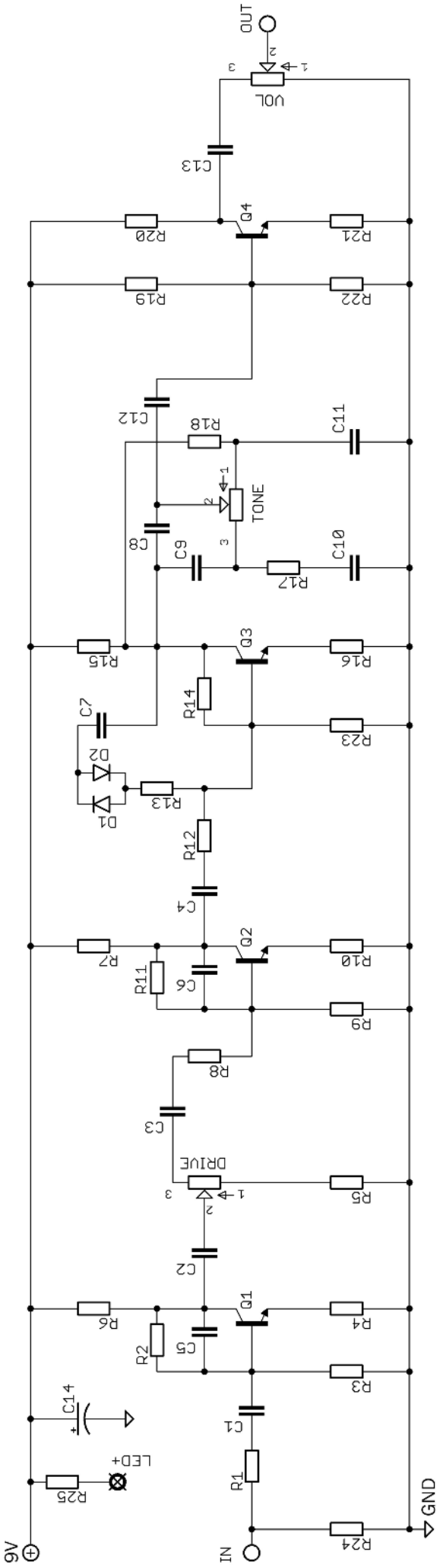
Schematic



BOM

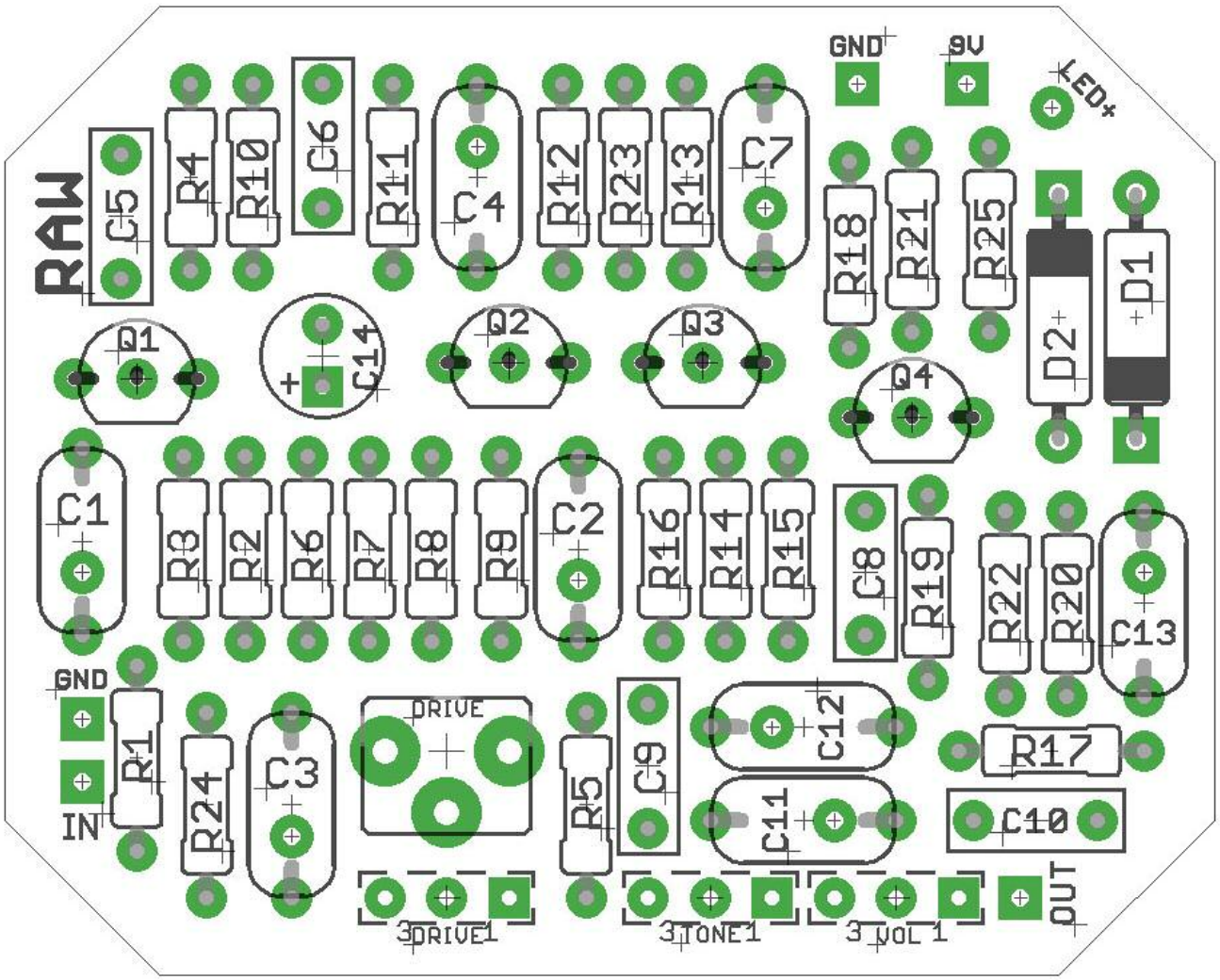
R1	1K5
R2	470K
R3	100K
R4	390R
R5	1k
R6	15k
R7	15k
R8	8k2
R9	100k
R10	100R
R11	470k
R12	8k2
R13	43k
R14	470k
R15	15k
R16	390r
R17	6k8
R18	33k
R19	430k
R20	10k
R21	2k2
R22	100k
R23	100k
R24	1M
R25	2k2 (CLR)

C1	100n
C2	100n
C3	100n
C4	100n
C5	470p
C6	470p
C7	100n
C8	680p
C9	2n2
C10	6n8
C11	100n
C12	100n
C13	100n
C14	100u

D1,2	1N34A

Q1-4	2N5088

TONE	100KB
VOL	100KB
DRIVE	100K(B)



This circuit is traced from an early two-knob model of the Fuzz War. The later 3-knob version has 7 transistors and is notoriously difficult to get working.

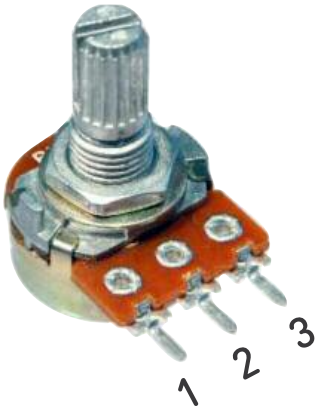
The traced original has an internal trim pot for the DRIVE control. Set-and-forget! This PCB has the option for that *OR* an external DRIVE pot. Don't solder both! One or the other.

Looks like a lot of spare holes? Well, the board has space for either 5mm or 7.5mm pitch capacitors for all the 100n caps. The original uses greencaps which are 7.5mm, but using 5mm poly box caps will keep things neat.

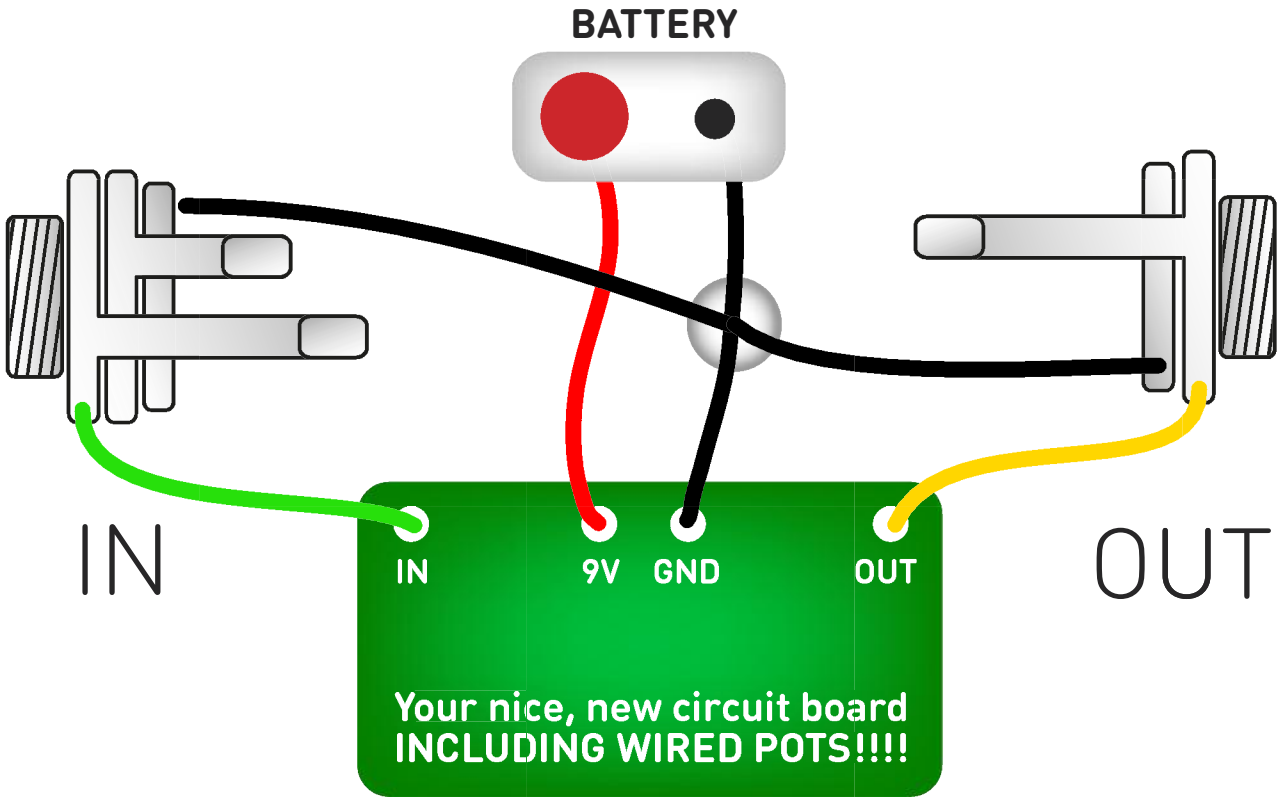
Wiring shown overleaf will disconnect the battery when you remove the jack plug from the input, and also when a DC plug is inserted.

Snap the little metal tag off the pot to mount it flush in the box.

Use some kind of heat sink on the legs the transistor when soldering. They aren't keen on heat. Any more than 3-4 seconds of iron and its toast.



Test the board!

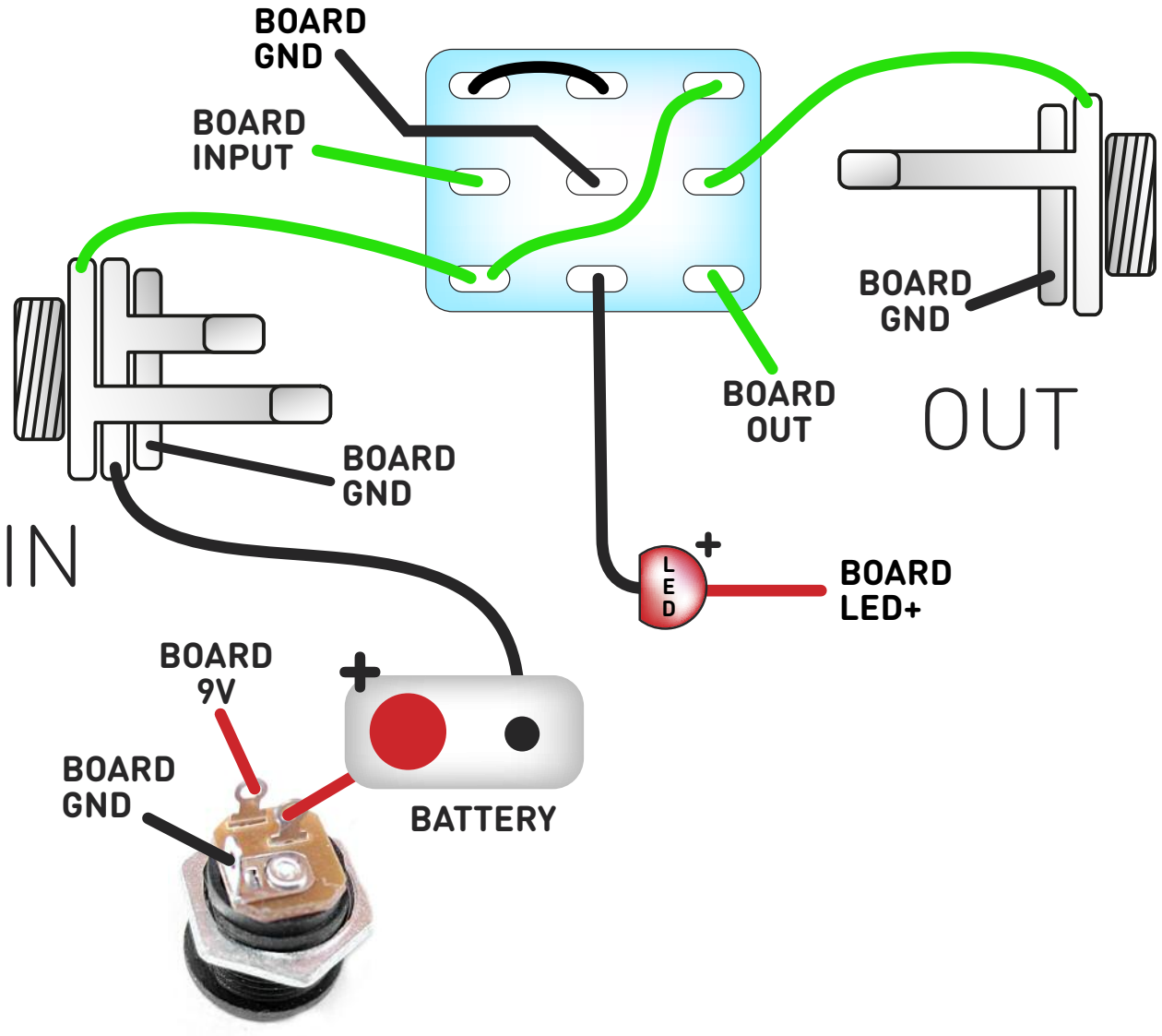


Once you've finished the circuit it makes sense to test is before starting on the switch and LED wiring. It'll cut down troubleshooting time in the long run. If the circuit works at this stage, but it doesn't once you wire up the switch - guess what? You've probably made a mistake with the switch.

Solder some nice, long lengths of wire to the board connections for 9V, GND, IN and OUT. Connect IN and OUT to the jacks as shown. Connect all the GNDs together (twist them up and add a small amount of solder to tack it). Connect the battery + lead to the 9V wire, same method. Plug in. Go!

If it works, crack on and do your switch wiring. If not... aw man. At least you know the problem is with the circuit. Find out why, get it working, THEN worry about the switch etc.

Wire it up



The Board GND connections don't all have to directly attach to the board. You can run a couple of wires from the DC connector, one to the board, another to the IN jack, then daisy chain that over to the OUT jack.

It doesn't matter how they all connect, as long as they do.

This circuit is standard, Negative GND. Your power supply should be Tip Negative / Sleeve Positive. That's the same as your standard pedals (Boss etc), and you can safely daisy-chain your supply to this pedal. Now... GO START A FUZZY WAR!

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