

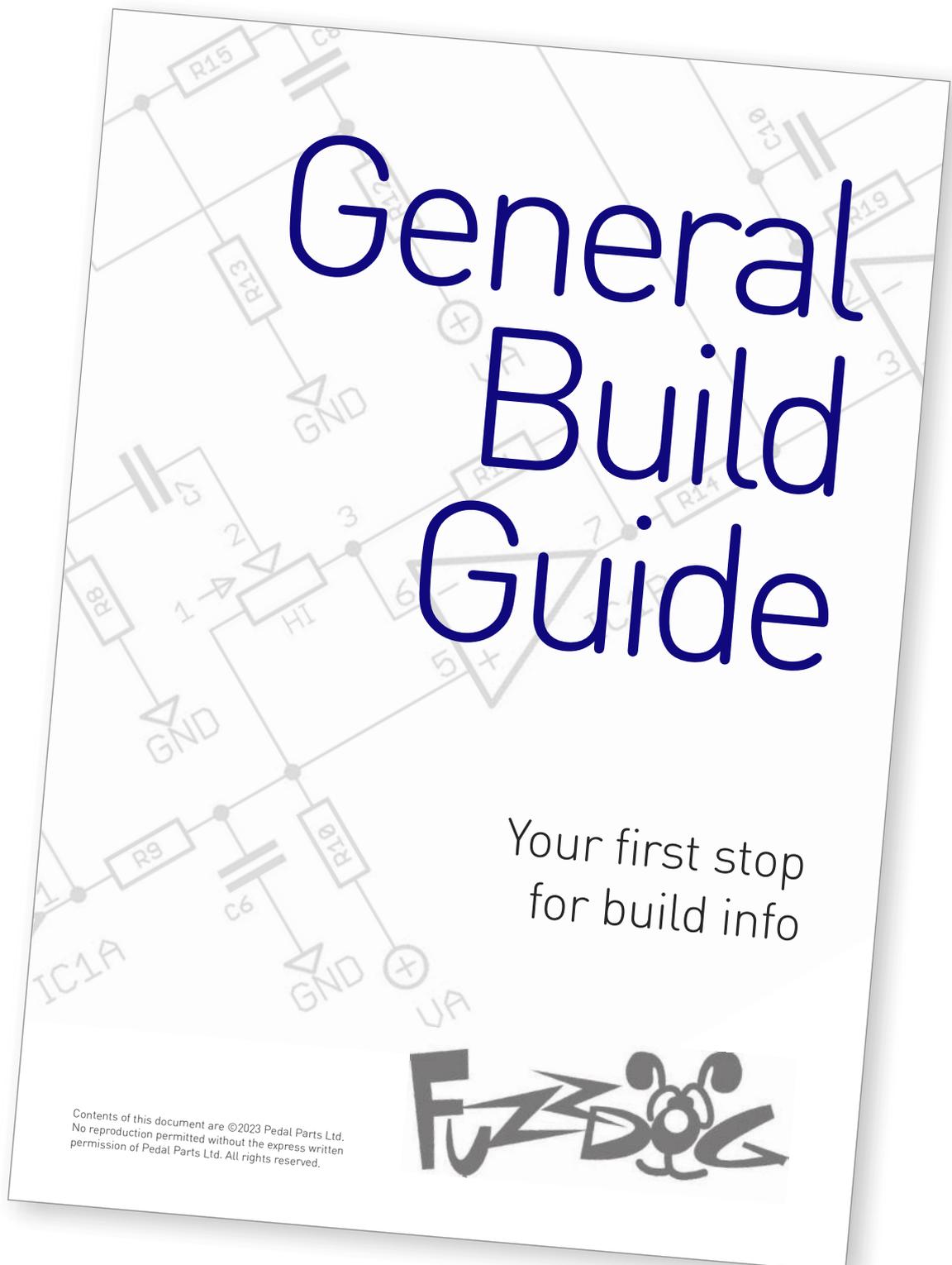
# Throb V4

MarkM's improved  
Schaller Tremolo

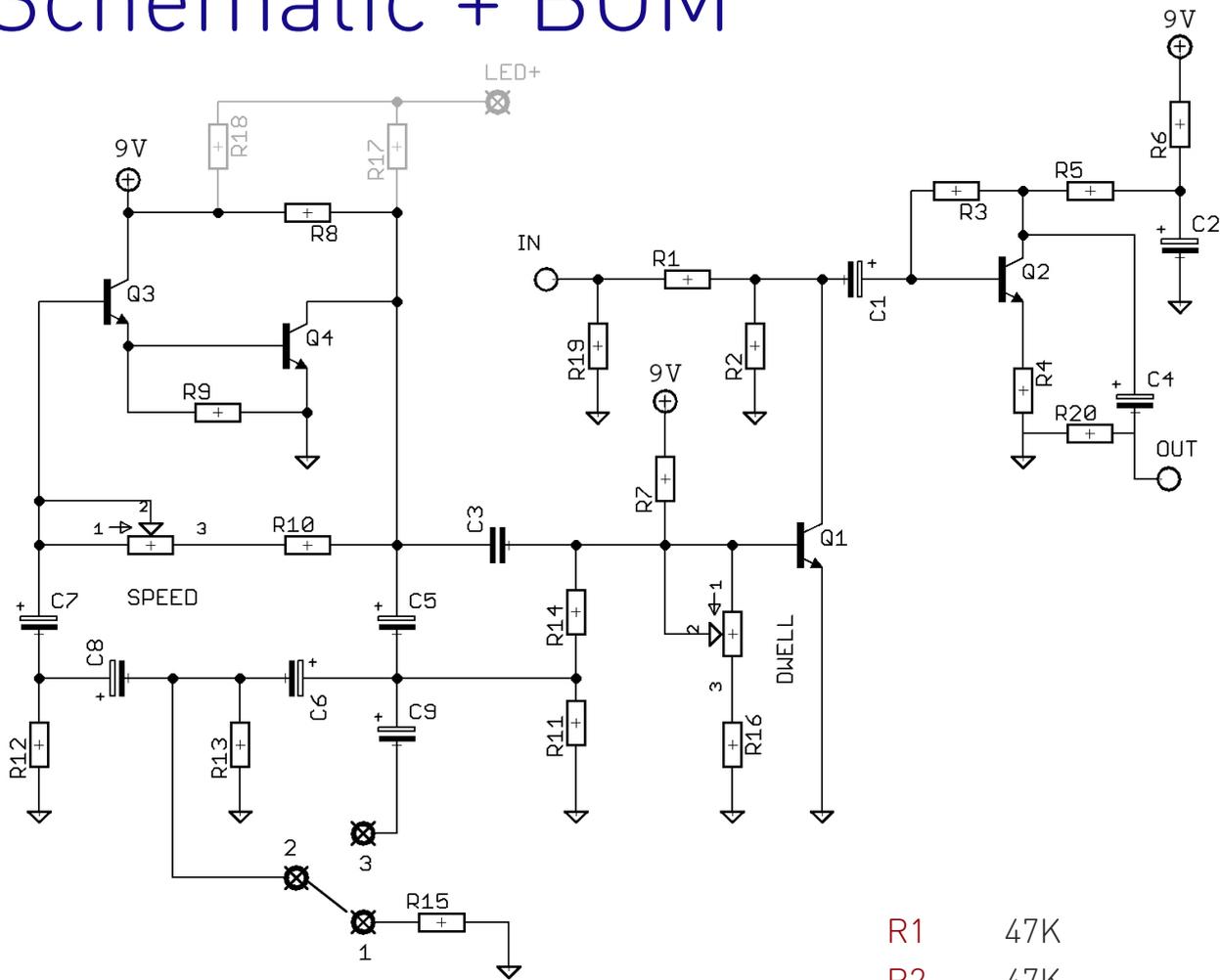


Before you dig in, ensure you download and read the **General Build Guide**.

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



# Schematic + BOM



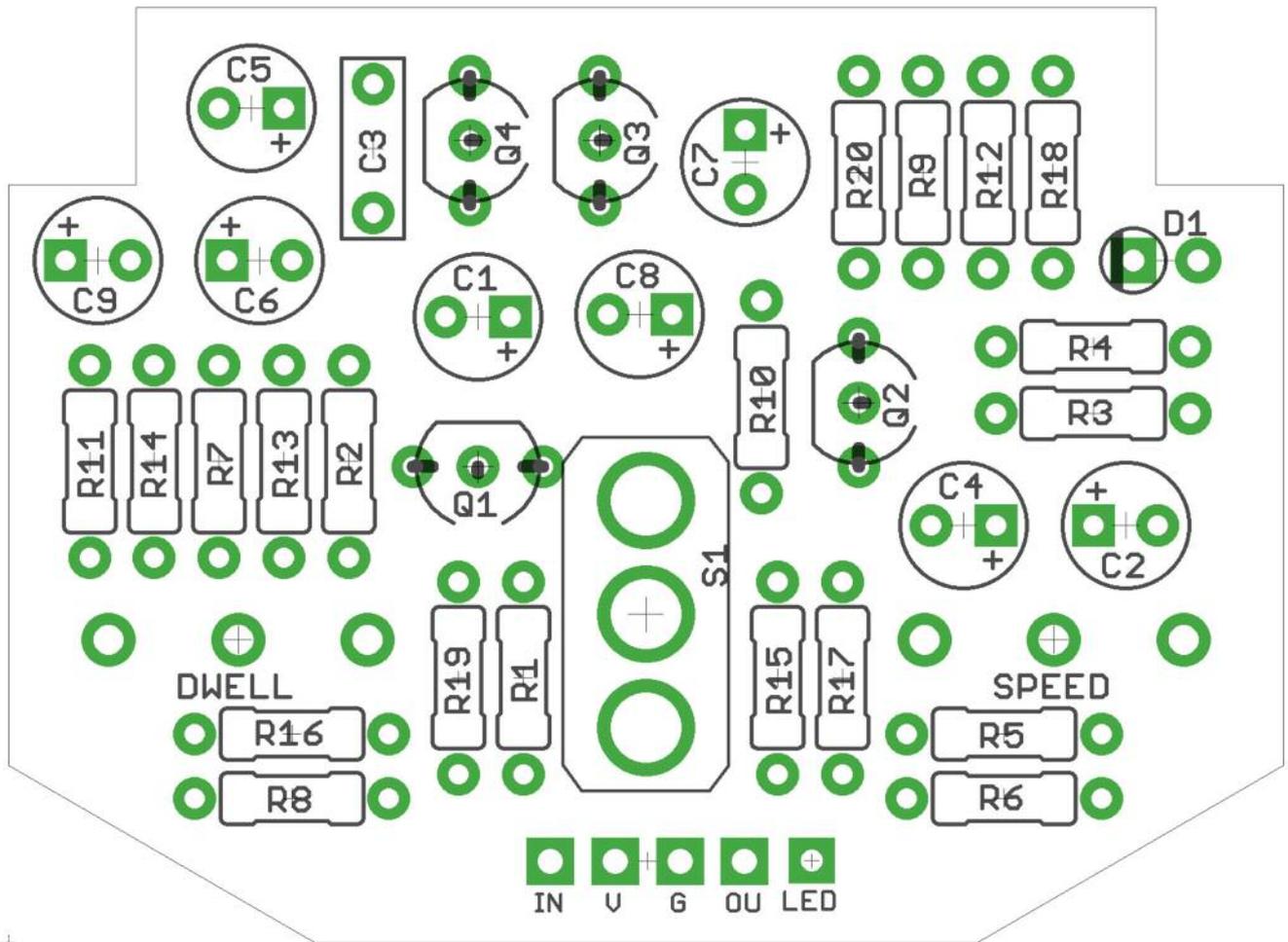
C1	4u7
C2	22u
C3	47n
C4	4u7
C5	10u
C6	22u
C7	22u
C8	10u
C9	4u7

Q1-4	2N5088
DWELL	25KB
SPEED	1MB
SW1	SPDT ON-ON
D1*	1N4001

R1	47K
R2	47K
R3	470K
R4	2K2
R5	6K8
R6	2K2
R7	330K
R8	6K8
R9	6K8
R10	27K
R11	2K2
R12	2K2
R13	2K2
R14	47K
R15	220R
R16	15K
R17	Empty
R18	Empty
R19	1M
R20	470K

\*D1 isn't shown on the schematic. It connects between 9V and GND as reverse polarity protection.

R17-18 and the LED pad are redundant. Ignore them.



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.

# Drilling template

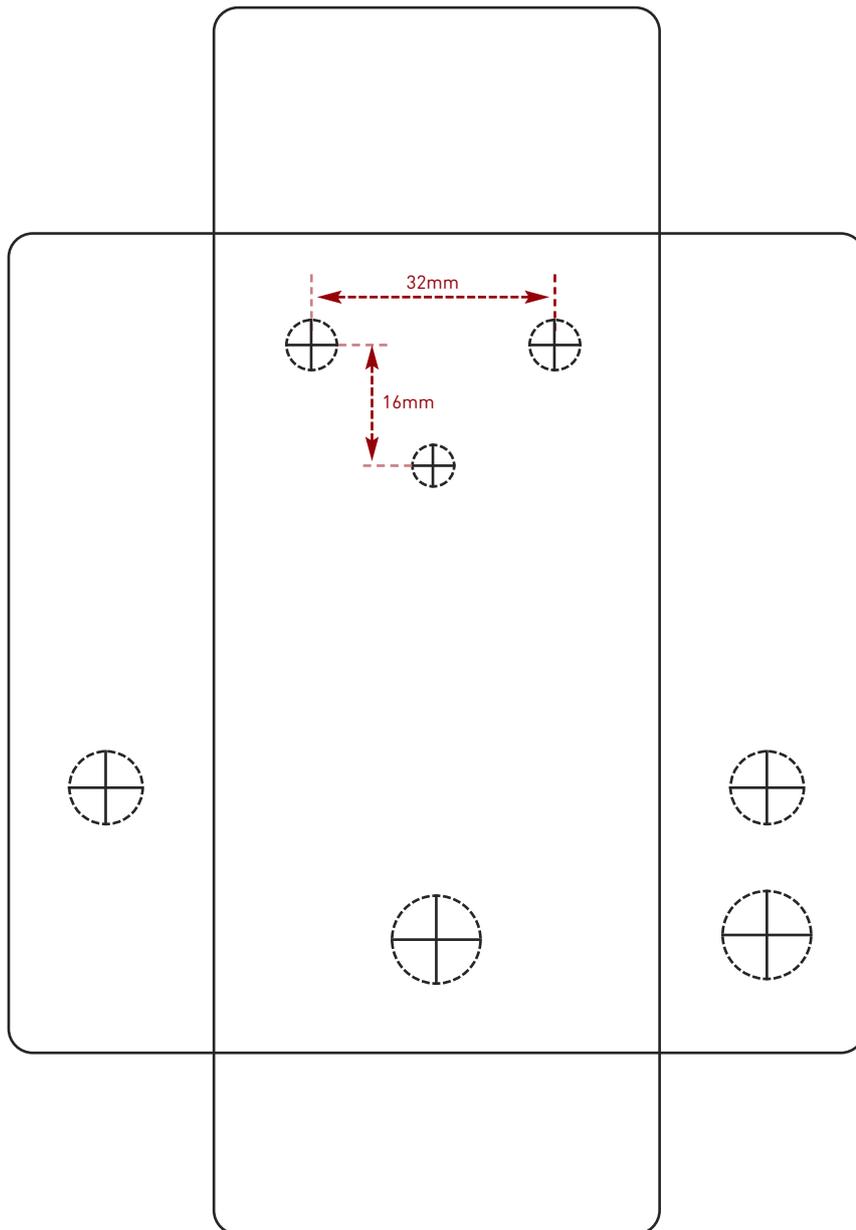
**Hammond 1590B - 60 x 111 x 31mm**

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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