

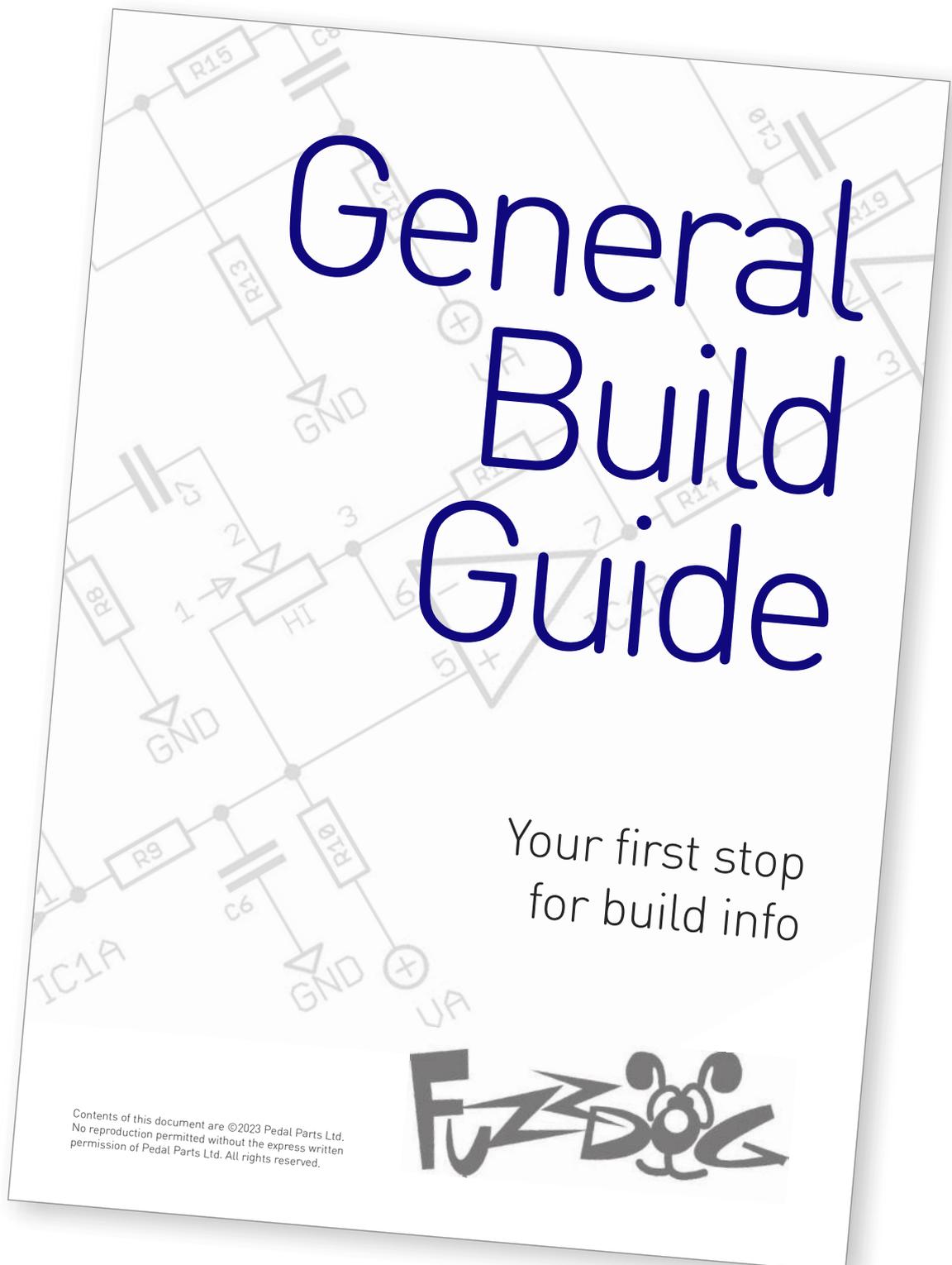
MagicVibes

Optical tremelo with a
Magnatone Amp feel

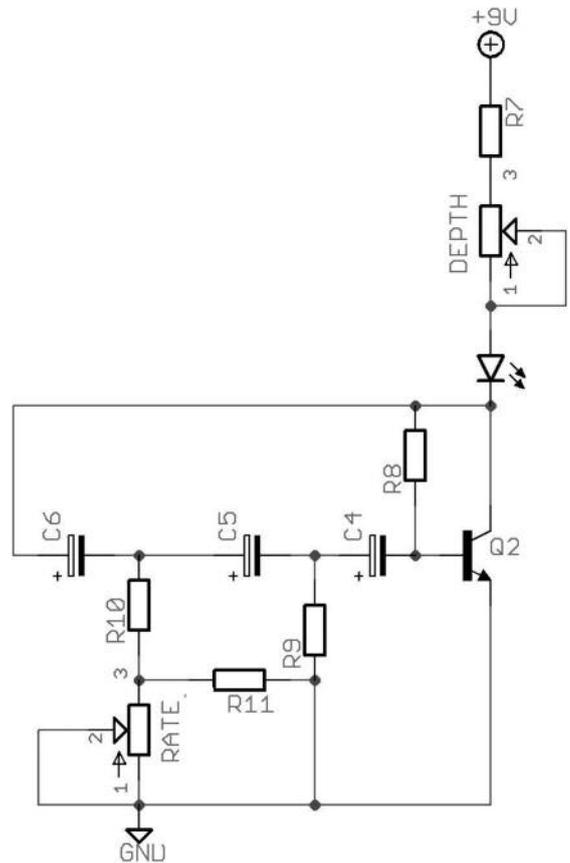
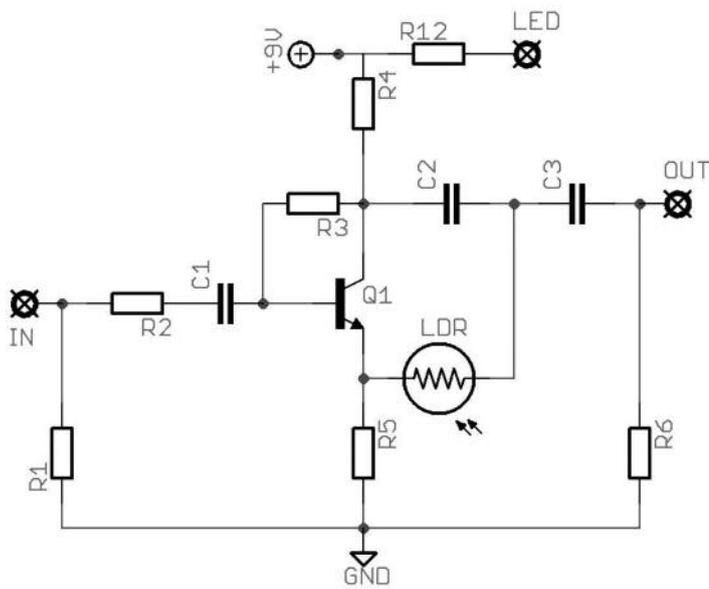


Before you dig in, ensure you download and read the **General Build Guide**.

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



Schematic + BOM



R1	2M2
R2	2K2
R3	4M7
R4	7K5
R5	7K5
R6	1M5
R7	1K8
R8	1M5
R9	10K
R10	2K2 (1K5)
R11	27K (Empty)
R12	Empty

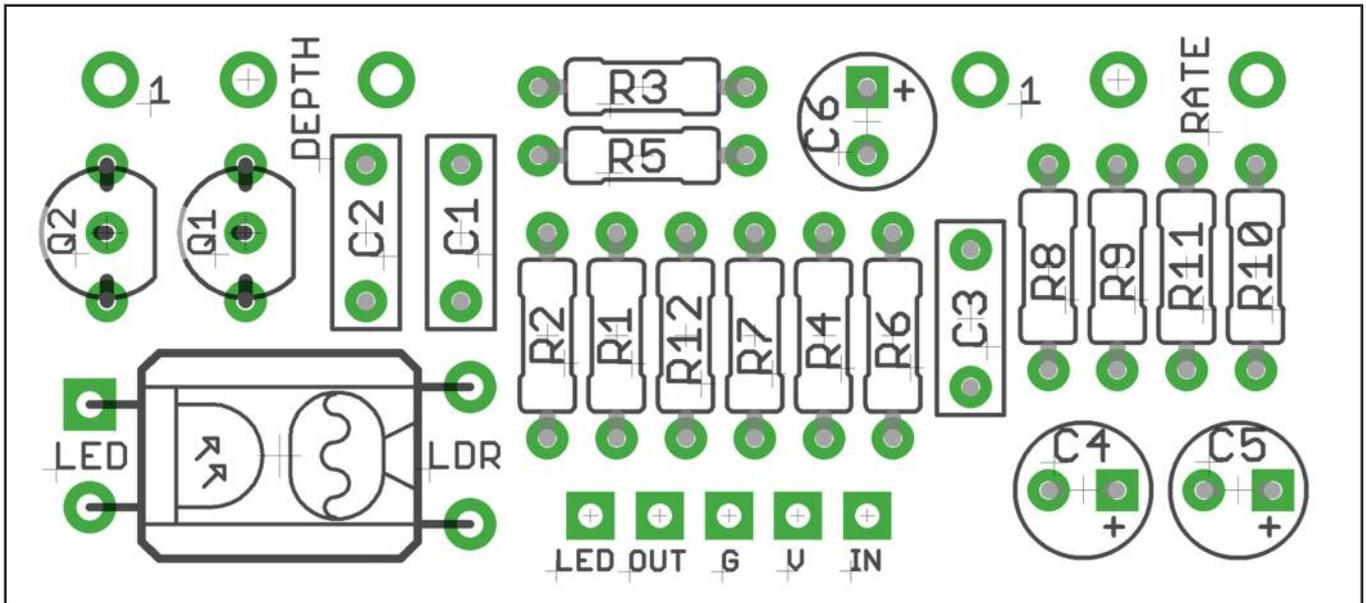
C1	220n
C2	100n
C3	220n
C4	1u elec
C5	1u elec
C6	1u elec

Q1,2	MPSA18
RATE	25KB
DEPTH	25KB

Use values in blue to give more range for the speed control compared to the original unit.

A Vactrol can be used for LED/LDR, and the circuit has been tested with NSL32 and VTL5C3 with reasonable results. However, the right combo of LDR (Light Dependent Resistor) and LED give better depth. Experiments at FuzzDog HQ found that a LDR with very high Dark resistance (10M+) and a high-intensity 5mm red LED worked very well.

Note: The Vactrol part on the PCB has a square pad to indicate the + leg of the LED. If using a normal LED place the + (long) leg into the square pad. If using a NSL32, the dot on the body indicates the - leg of the LED side.



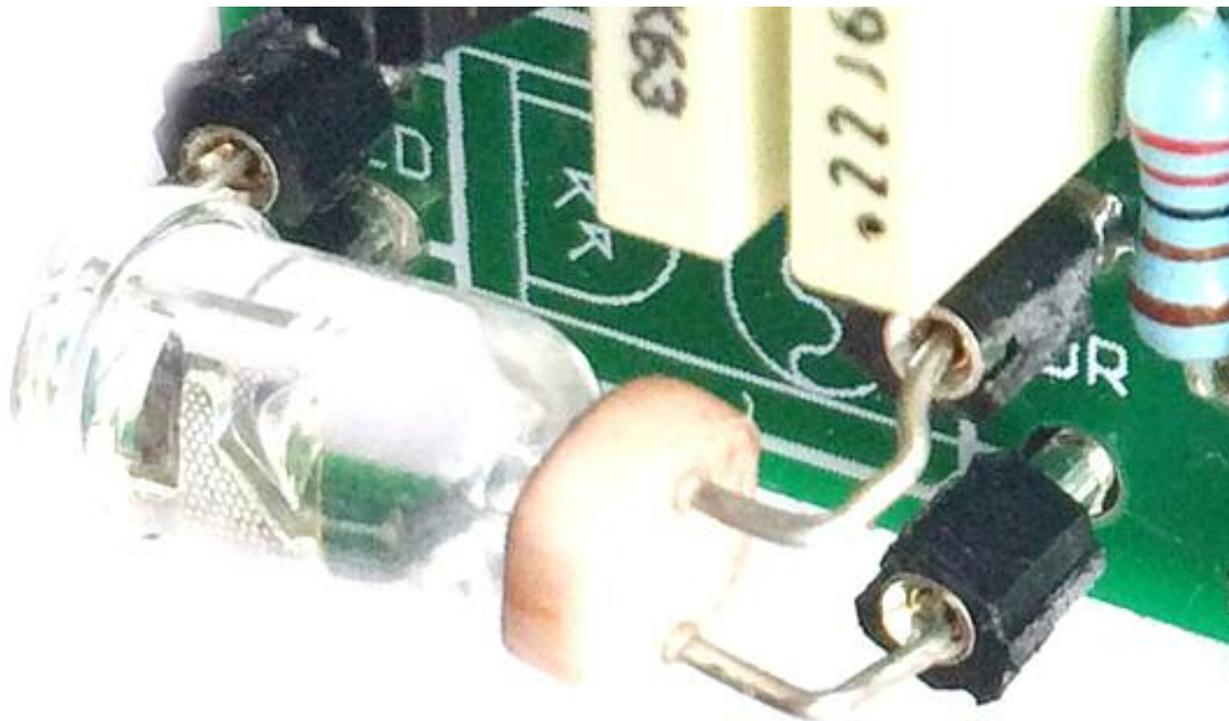
Snap the small metal tag off the pots so they can be mounted flush in the box.

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.

R12 and the LED pad are redundant now we supply footswitch daughterboards.

If using LED/LDR rather than a Vactrol they should be mounted to face each other very closely, even touching. Wrap some electrical tape around them, or put them in some shrinkwrap to keep the light out. This isn't strictly necessary when the circuit is boxed up, but for testing you need to keep them out of the light.



Drilling template

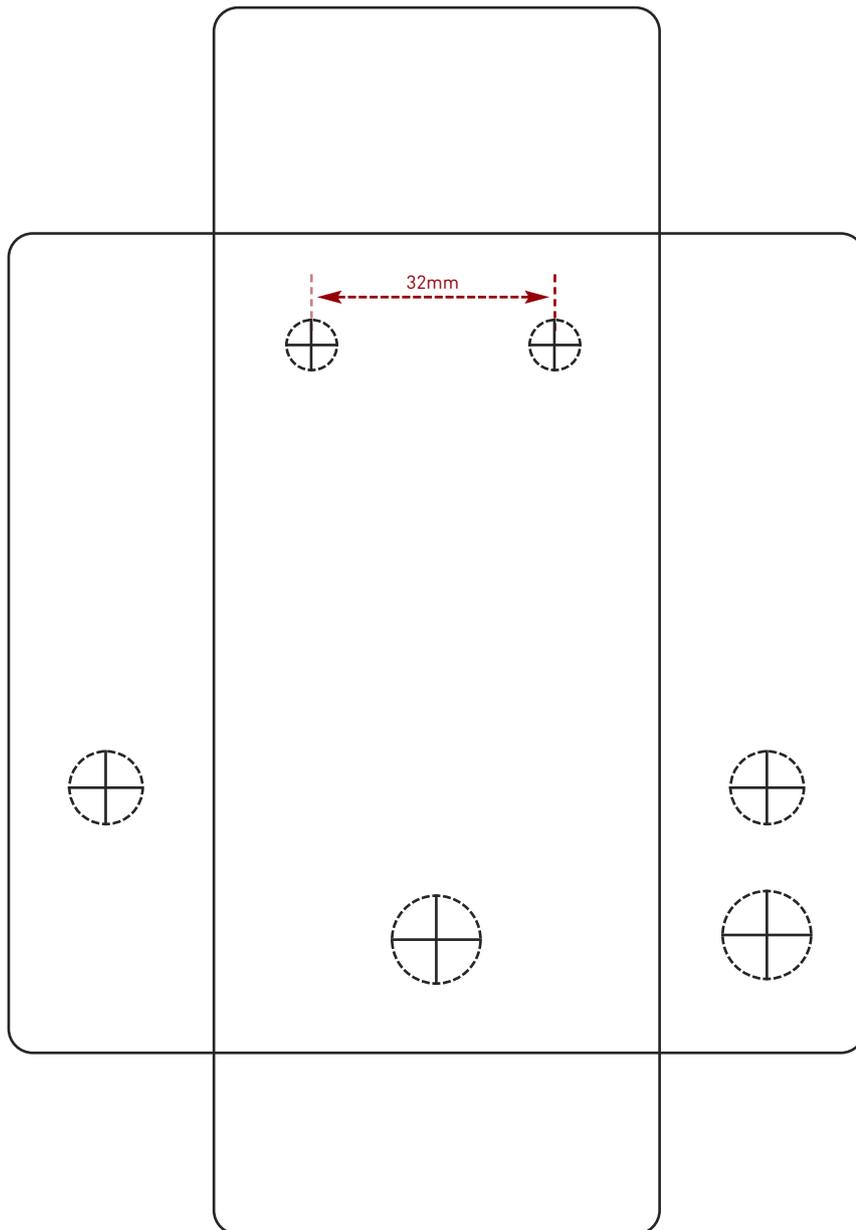
Hammond 1590B - 60 x 111 x 31mm

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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