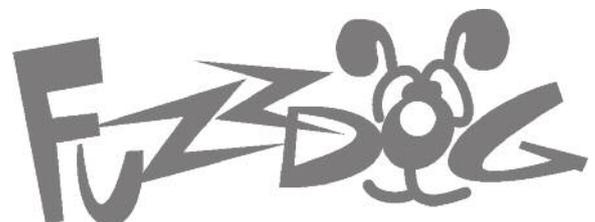


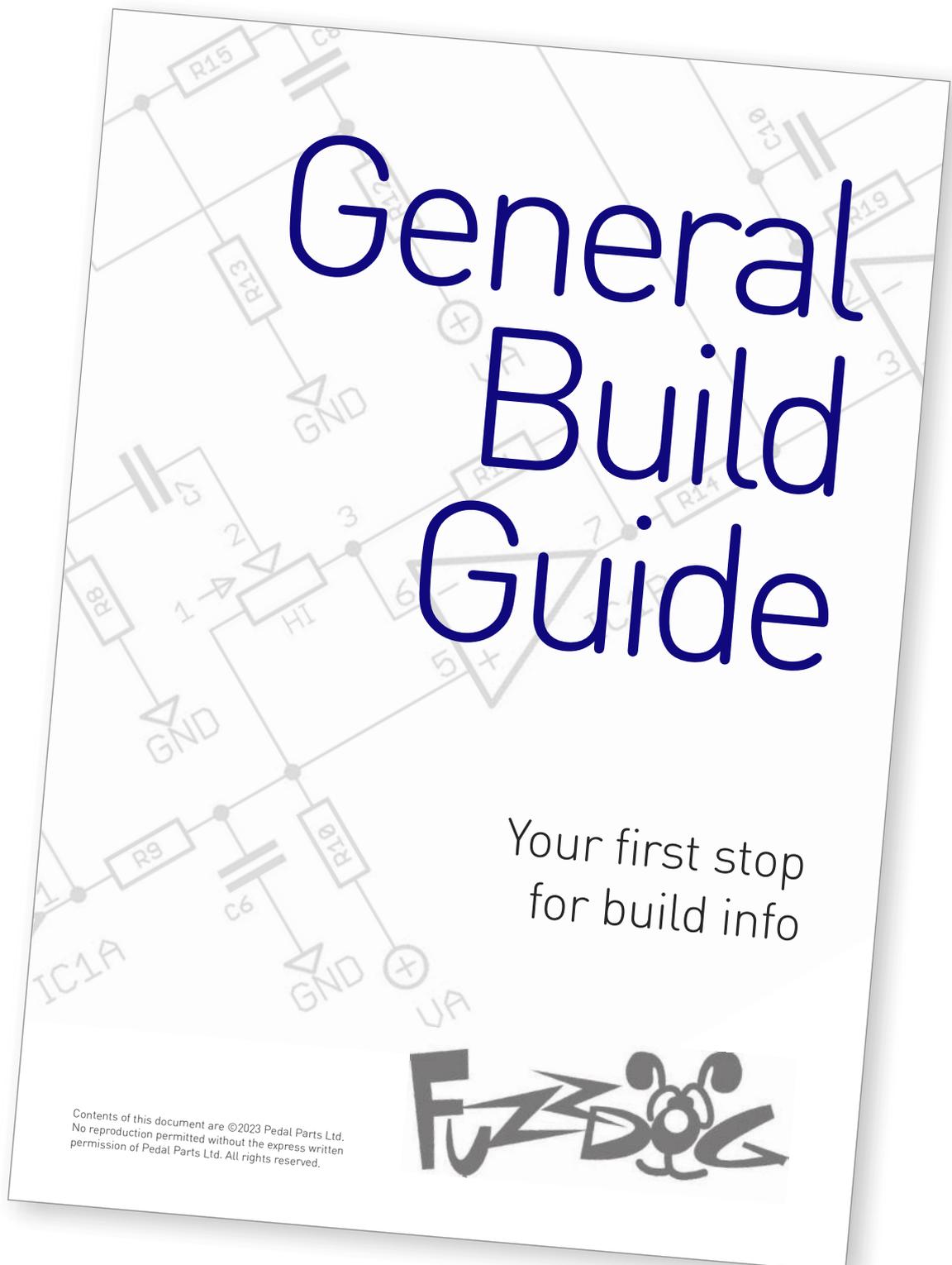
Deep Vibes

Wobbly Optical Vibe action

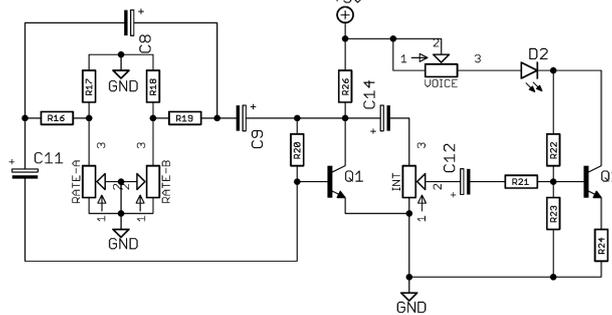
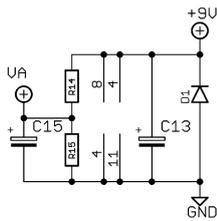
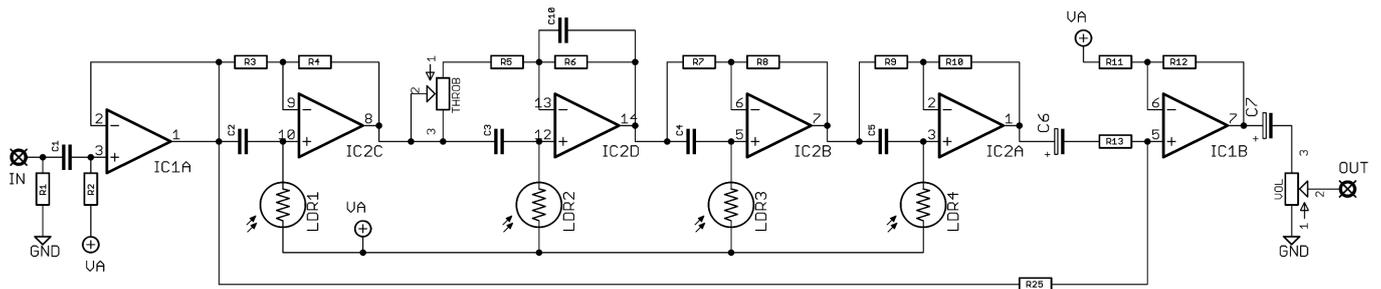


Before you dig in, ensure you download and read the **General Build Guide**.

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



Schematic + BOM



Based on the trace published at FreeStompBoxes.org

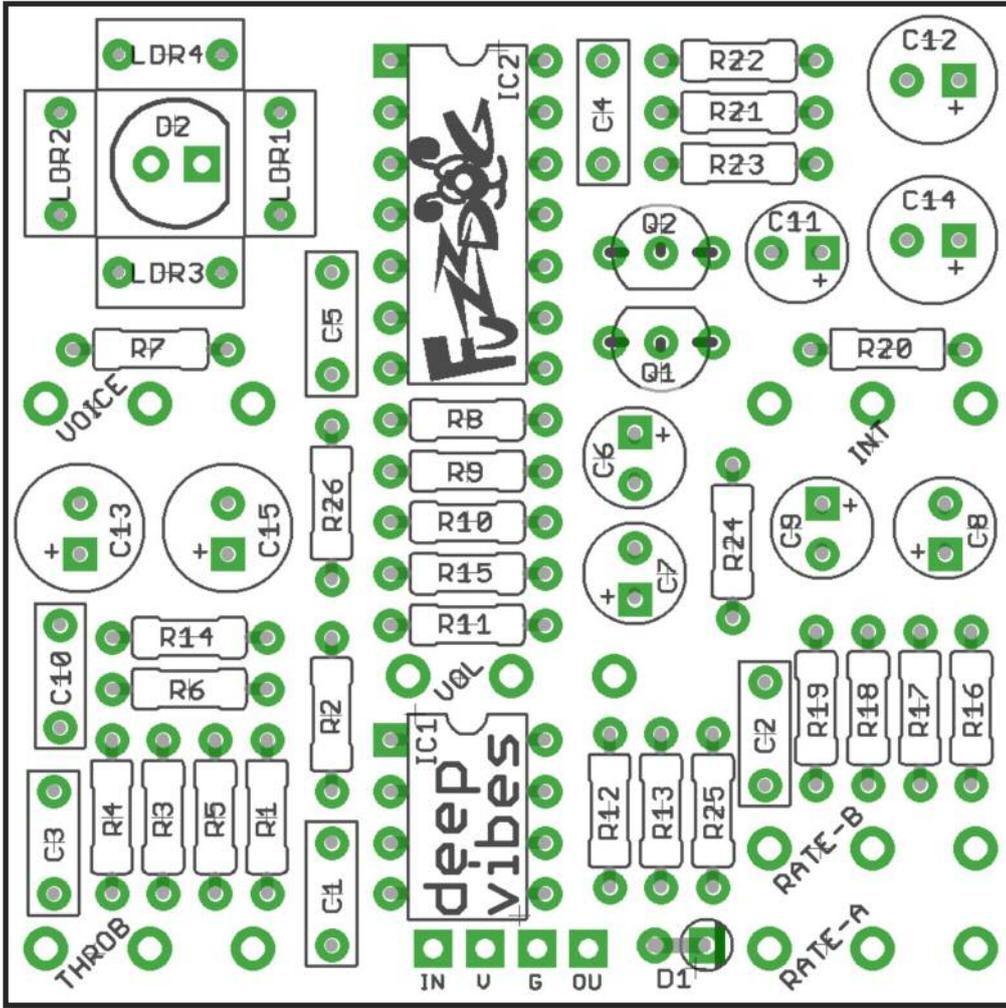
R1	1M	C1	100n	IC1	TL072
R2	1M	C2	15n	IC2	TL074
R3	47K	C3	220n	Q1-2	MPSA18
R4	47K	C4	4n7*	LDR1-4	**
R5	22K	C5	470p*	D1	1N4001
R6	47K	C6	1u elec	D2	5MM yellow LED‡
R7	47K	C7	1u elec	INT	25KB
R8	47K	C8	1u elec	VOL	100KA
R9	47K	C9	1u elec	THROB	25KB
R10	47K	C10	100p	VOICE	10KB
R11	10K	C11	1u elec	RATE	100KB
R12	56K	C12	47u elec		DUAL GANG
R13	100K	C13	100u elec		
R14	10K	C14	47u elec		
R15	10K	C15	100u elec		
R16	3K3				
R17	220K				
R18	220K				
R19	3K3				
R20	2M2				
R21	4K7				
R22	47K				
R23	100K				
R24	100R				
R25	100K				
R26	15K				

*These two caps are transposed compared to the usual Univibe circuit. That's how it is on the traced schematic and it sounds good. If you want to swap them, go ahead.

**KE-10720 works well and is supplied with the kit. Others may work. Check the datasheets and compare.

‡Gave good results. Other colours may also work.

C2-5 can be experimented with just like a typical Univibe circuit. Google is your friend.



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.

Bend the LDR legs close to the body at 90°. Mount them all pointing towards the LED at similar heights. See cover image.

You'll need to cover the circuit to test it, or at least have it in a dark space. The LDRs won't function properly in light. There's no need to make a permanent cover for the LED/LDR section. Once the circuit is finished and boxed up you're good.



Drilling template

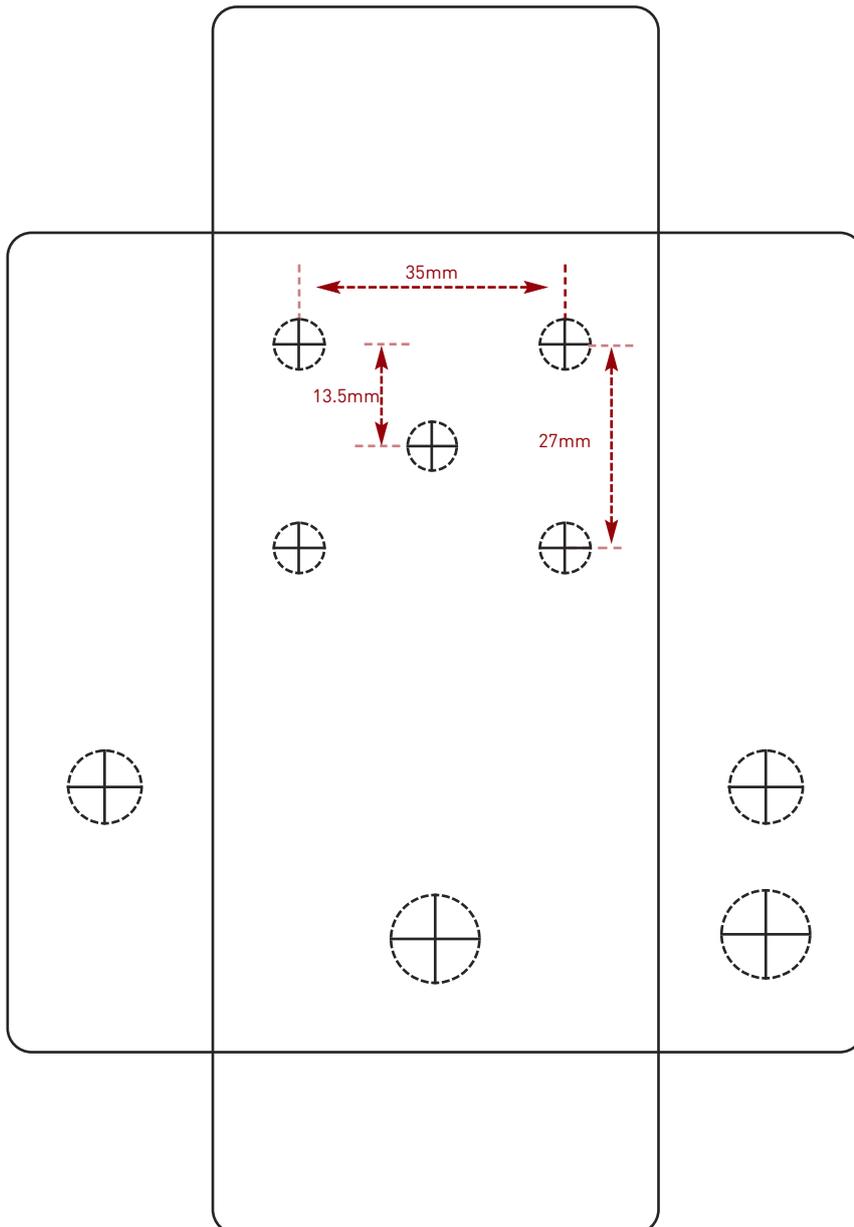
Hammond 1590B - 60 x 111 x 31mm

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.

FuzzDog.co.uk