

# Harmonic Percolator

Your very own clone  
of the Interfax HP-1

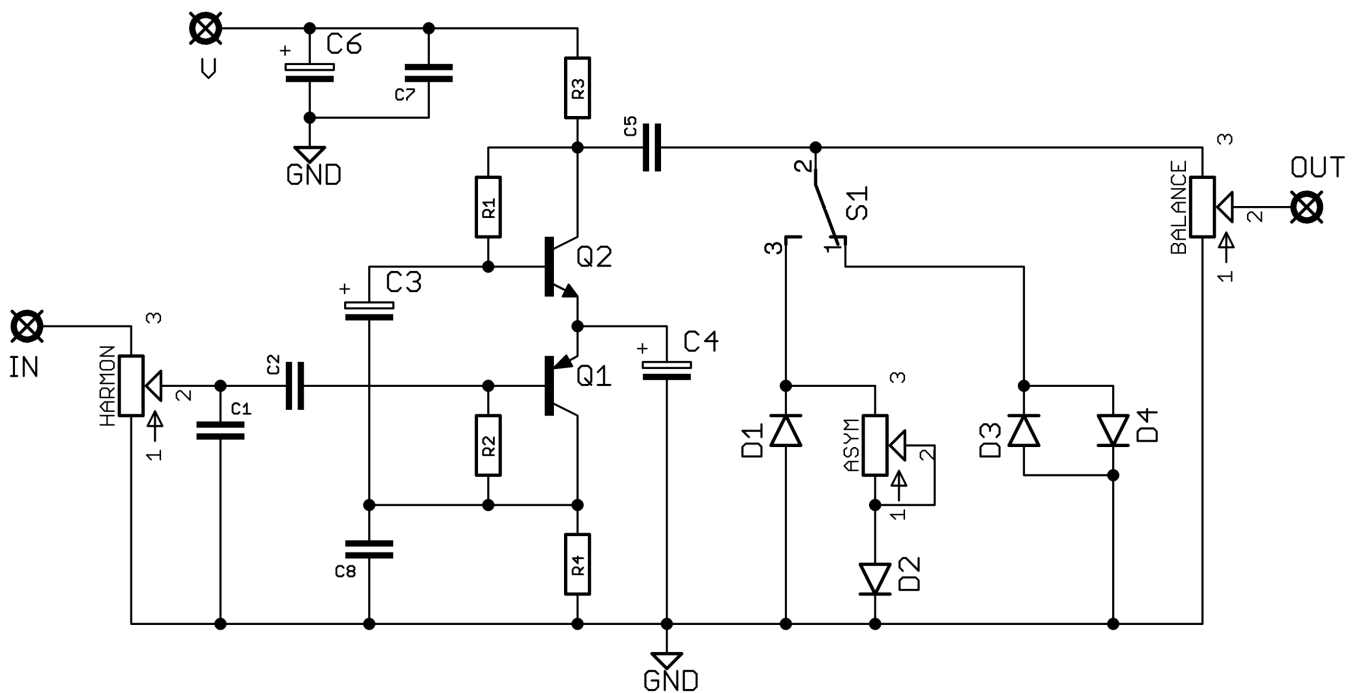


Before you dig in, ensure you download and read the **General Build Guide**.

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



# Schematic + BOM



R1 750K (3M9)

R2 220K (51K)

R3 91K

R4 20K (91K)

C1 100p

C2 47n

C3 1u tant (2u2 tant)

C4 47u elec

C5 100n

C6 100u elec

C7 100n

C8 1n (1n5)

D1-2 Germanium

D3-4 Your choice

Q1 2N404 / PNP Ge

Q2 2N3565

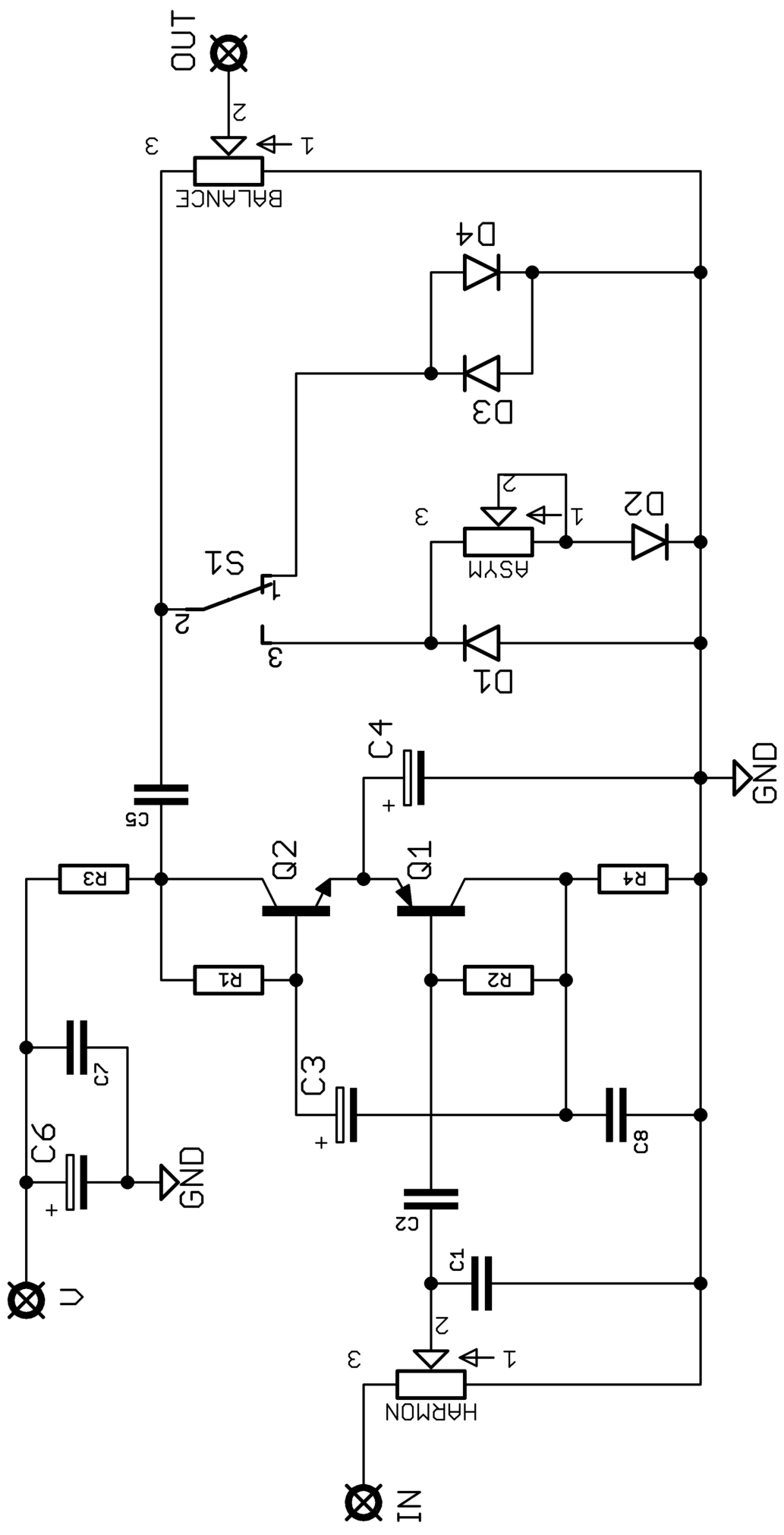
HARM 100KA

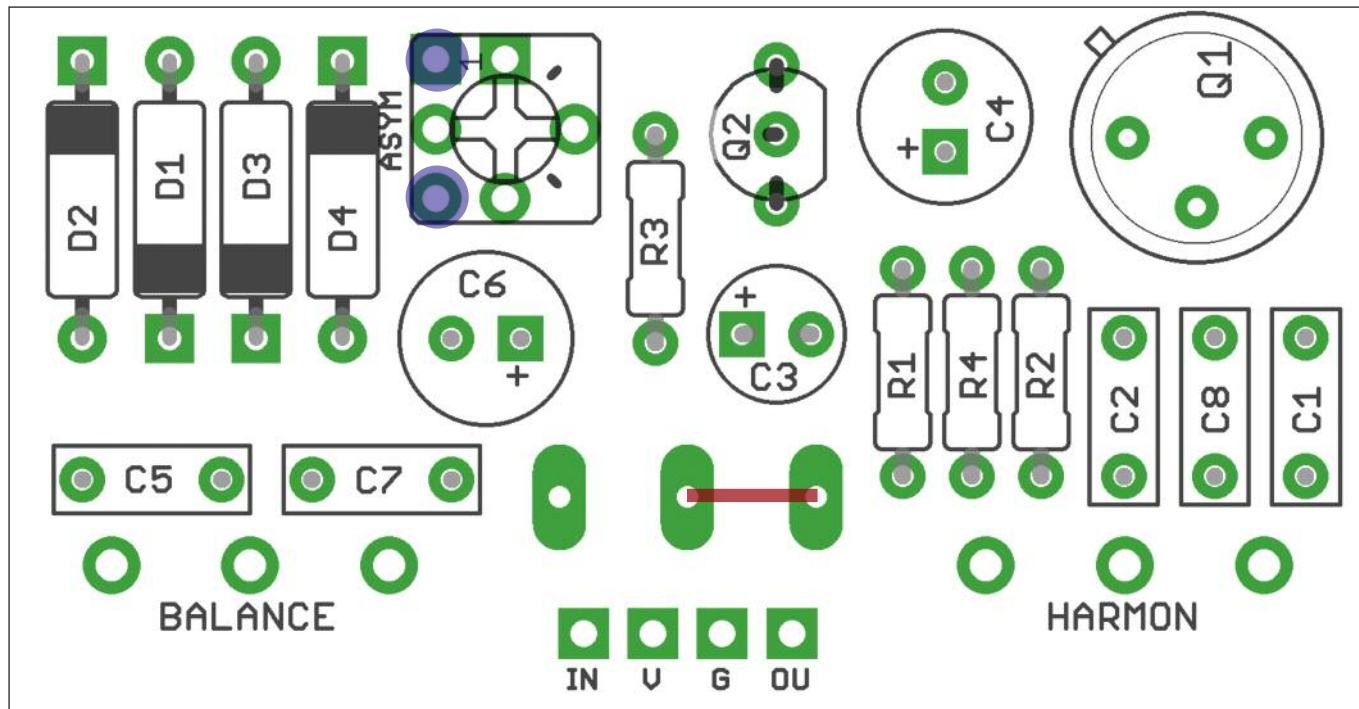
BAL 50KA

ASY 10K trimmer

Substitutions in brackets are for the Albini version.

There are many traces of the Harmonic Percolator, mostly with different values. We can only assume there was a lot of variation across the life of the pedal.





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.

## CLIPPING

There's room for two different pairs of clipping diodes on the PCB. D1-2 and D3-4.

You don't have to use both. For a single option with no clipping switch, use D1-2 and place a jumper across the unused toggle switch pads as shown in red above. Leave D3-4 empty.

If you'd like a second option, populate D3-4 with your choice of diodes and use a toggle switch.

The switch can be either SPDT ON-ON to select between the two diode sets, or ON-OFF-ON if you want to include the option of no clipping in the centre position. Note, this will be considerably louder than either of the two clipping options, so turn the vol down when selecting this.

We've used red LEDs and 1N4148 with good results.

D1-2 also have the option of adjustable asymmetry. Use a 10K trimmer in that spot. This is normally a 4K7 resistor, so you'll be roughly thereabouts with your trimmer in the centre position. If you'd rather leave this as stock you can just place a 4K7 resistor upright across the two pads marked in blue above.

# Drilling template

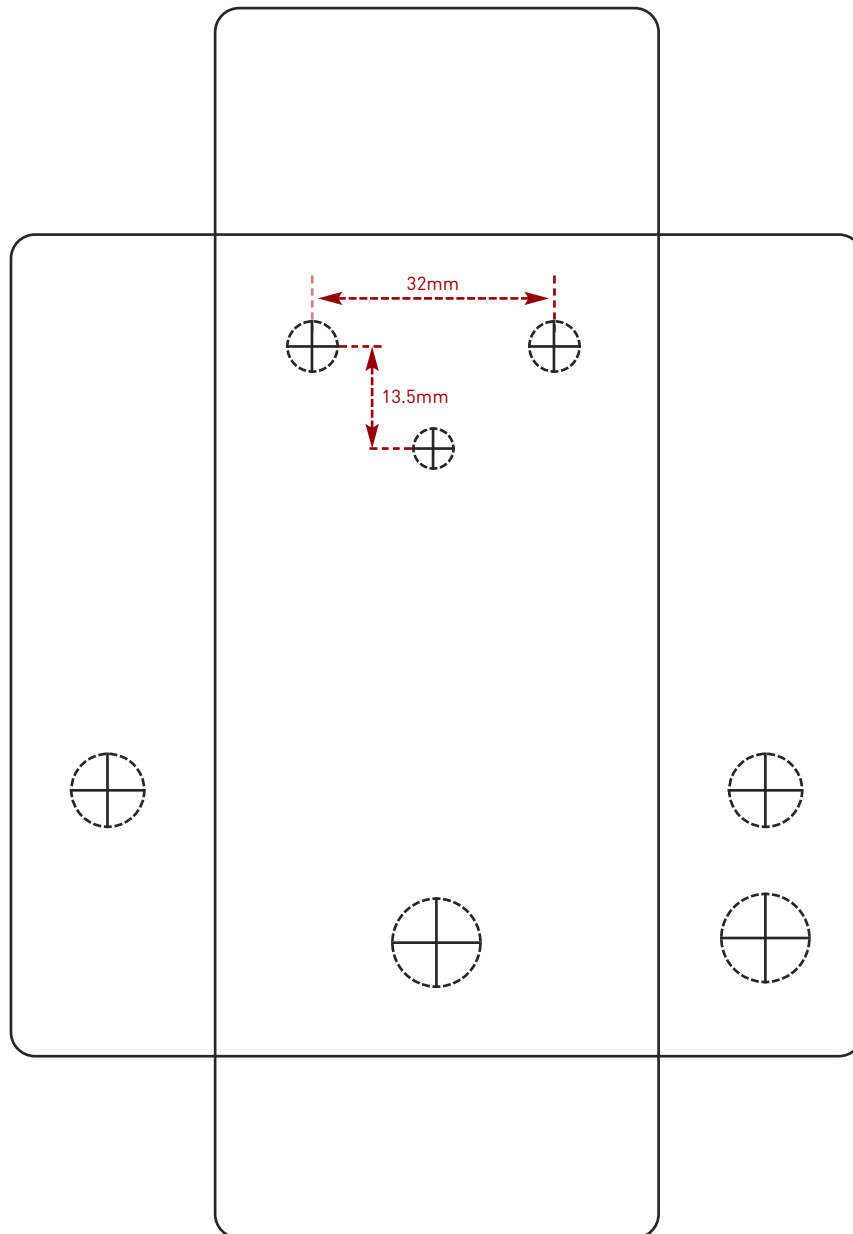
**Hammond 1590B - 60 x 111 x 31mm**

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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