

Guv V2

Marshall-esque distortion with versatile tone controls



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



Schematic + BOM



| R1 | 2M2 | C1 | 10n | IC1 | TL072 |
|-----|------|-----|-----------|-------|--------------|
| R2 | 1M | C2 | 100p | | |
| R3 | 2K2 | C3 | 100n | D1 | 1N4001 |
| R4 | 10K | C4 | 220n | D2-5 | 1N4148* |
| R5 | 680K | C5 | 100n | D6-7 | 3MM Red LED* |
| R6 | 1K | C6 | 220p | | |
| R7 | 1K5 | C7 | 220n | GAIN | 100KB |
| R8 | 680R | C8 | 100n | LEVEL | 100KB |
| R9 | 680R | C9 | 4n7 | TREB | 10KB |
| R10 | 100R | C10 | 10n | MID | 10KA |
| R11 | 22K | C11 | 220n | BASS | 10KA |
| R12 | 47K | C12 | 470p | | |
| R13 | 47K | C13 | 68n | S1 | SPDT ON-ON* |
| | | C14 | 100u elec | | |
| | | C15 | 10u elec | | |

*The switch, extra 1N4148 and red LEDs give optional extra clipping configurations. See later in the document.





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.

NO CLIPPING SWITCH

Add a jumper as shown in red above to use only D2-D5 for clipping.

Jumper as shown in blue for only D6-D7.



Clipping options

Extra pads have been added to the PCB to allow experimentation with clipping, and even the option to have two different configurations selectable with a toggle switch.

STOCK CLIPPING

To go with standard Guv clipping, you should use a 1N4148 in both D2 and D4, placing jumpers across D3 and D5. A further

jumper should then be placed across switch pads 1 and 2 (see previous page)

THE BOARD IS YOUR OYSTER...

You can also experiment within that clipping network. Try adding a single extra 1N4148 in D5, leaving a jumper in D3, to give asymetrical clipping. Filling all four diode spots in this network will give you a more compressed tone. You don't have to use 1N4148. Different diodes will yield totally different results. Try combinations of germaniums, BAT41, 1N4001 - pretty much anything you can get your hands on. You should always have at least one diode in each direction, i.e. at least D2 and D4, not just D2.

There's a second, independent clipping network consisting of D6 and D7. These spots are meant for LEDs, but there's nothing stopping you putting 'normal' diodes in those spots if you prefer.

If you're ONLY using the D6-D7 clipping section, put a jumper across switch pads 2 and 3.

I WANT IT ALL ...

Sure. Why not? You can have two different clipping set-ups selectable with a SPDT toggle switch. Just place your diodes as you want them and include S1.

Switch to the left engages D2-D5, right is D6-D7.



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:

| 7mm |
|------|
| 10mm |
| 12mm |
| 12mm |
| 6mm |
| 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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