

Filthy Fack! V4

Famous 5-knobbed germanium fuzz monster



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



Schematic + BOM



*Only required if you're including the FAT switch option. Otherwise leave empty.

**Can be germanium or silicon depending on your preference.
Originals used either AC128 or 2N404 for germanium, hFE around 70 for Q1,
120 for Q2. Silicon version works well with 2N558B, but you could use any medium gain PNP BJT, such as 2N3906. See notes on pinouts overleaf.



As you can see on the cover image, the pots mount on the same side of the PCB as the rest of the components. You should mount these last as they'll cover up the top row of resistors.

There are extra pads for Q1-2 to accommodate different pinouts. A lot of Russian germanium transistors have a BCE pinout, so this will avoid any leg twisting to fit them in.

The cover image shows a build using silicon 2N558B transistors which have a pinout as shown below. If using something else, check your pinout.



If we supply germanium transistors we'll always mark the pinout for you. Mount them into whichever pads make the most sense for each particular pinout.

DC AND JACK PADS

There's a V pad and several G pads on the main PCB. You can use these to make connections to your DC socket and jack grounds. The DC pads are certainly more convenient than those on the daugtherboard. See the general build doc for more information on that.

FAT SWITCH

You have the option to include a three-way FAT control, using a SPDT ON-OFF-ON toggle switch. In the centre position you have the standard circuit. With the switch flipped to S1 you engage C5, making it quite a bit bassier. Switched to S3 and you have more bottom than you'll know what to do with. You'll notice these changes most when playing with the STAB control, as the nature of the oscillation will change quite a bit.

We've kept the toggle off-board so you can position it as you wish, though you'll have to ensure it won't get in the way of the PCB. We recommend it be positioned as per the drilling template on the next page.



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. Pots7mmJacks10mmFootswitch12mmDC Socket12mmToggle switches6mmRotary switches10mm

The only critical measurements here are the distance between pots, 21mm. There's not much scope to alter the jack position though.

You can position the DC socket and toggle switch as you like, but do a dry fit before drilling to ensure you aren't bumping into anything PCB-mounted.



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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Drill sizes: