

Ladies and gentlemen,
today we'll be serving a
Power Supply Unit (PSU).



Here are the steps.

1. Resistors

Place and solder all resistors to their designated locations. Orientation is irrelevant.

2k2 - R1, R3

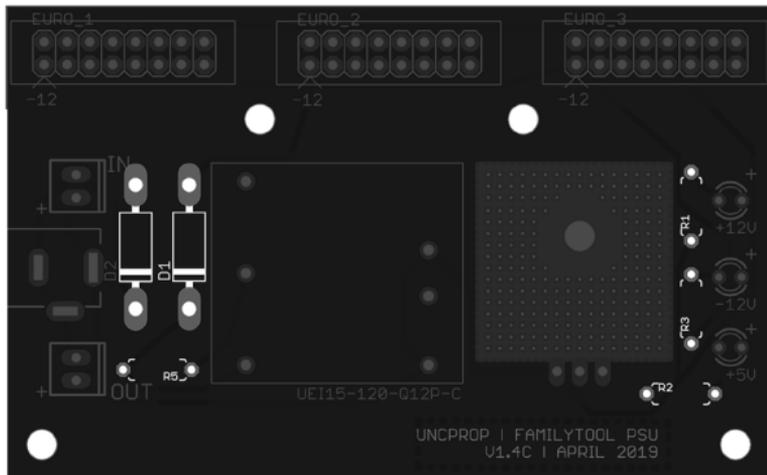
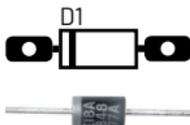
680 - R2

47k* - R4

2. Diodes

The 2 **SB540A diodes** need to be placed at **D1-D2**.

Mind their orientation: the white line of the silkscreen represents the line (grey) on the diode itself.



* select item based on test to get close to -12 V

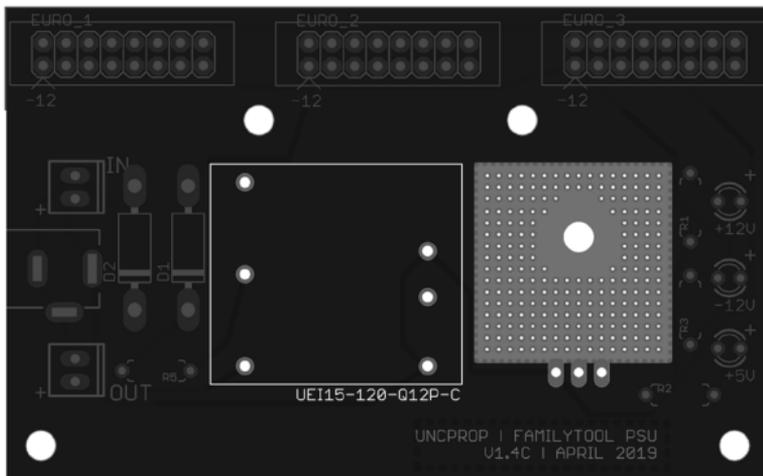
Halfway there.

3. Regulator

Solder the **MC7805ACTG regulator** and lay it flat so it touches the pcb. It's up to you if you want to screw it to the pcb.

4. Converter

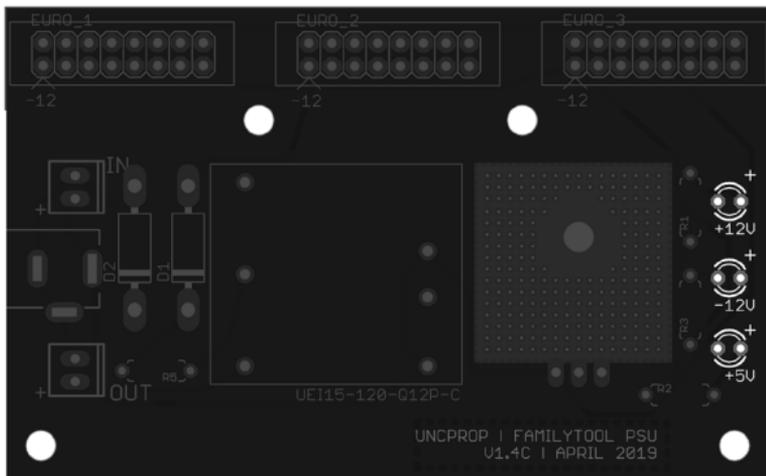
The **DC-DC converter** (UEI15-120-012P-C) fits in one direction only. Make sure to solder it properly.



Getting warmer!

5. LEDs

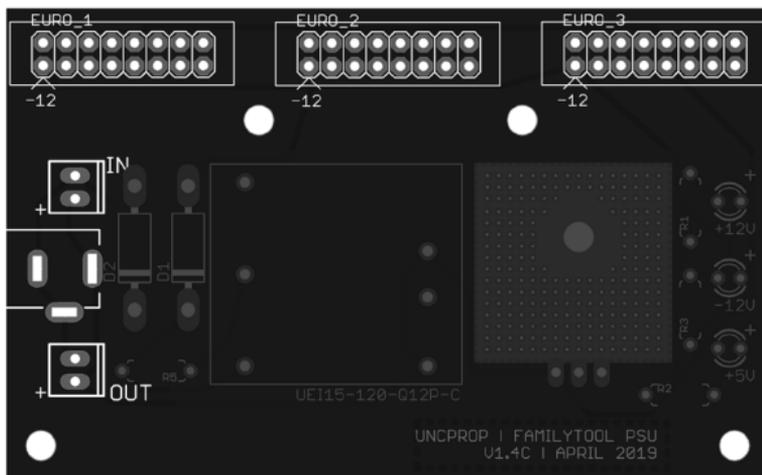
Place all 3 **LEDs** but mind their orientation [Long lead = cathode (+)]
Solder them as close as possible to the pcb.



Getting warmer!

6. The Rest

Now solder all other parts. Check the MTA header's orientation. The shaft should be on the line.





Danger! Achtung, schnell, schnell!

CHECK VOLTAGES BEFORE YOU PLUG IN A MODULE!

Power the PSU with an AC-DC +12V (center pin +). **Measure all voltages** with your DMM. You can adjust R4 to get closer to -12V but a few mV off usually don't matter.



Disclaimer

You alone are responsible for ensuring that the finished module does not cause harm to other equipment to which you connect it. The correct assembly, safe power supply and necessary adjustment of the module is your personal responsibility. Damage to other devices is your responsibility. UNCPROP MODULAR (Droessel, Heumann & Schankula GbR) is not responsible for any injury to yourself or others or damage to your property or other property during the build or use of the circuit boards provided. We currently don't offer or carry out repairs of any kind. Although we will be happy to assist you via email if you encounter problems throughout the process.