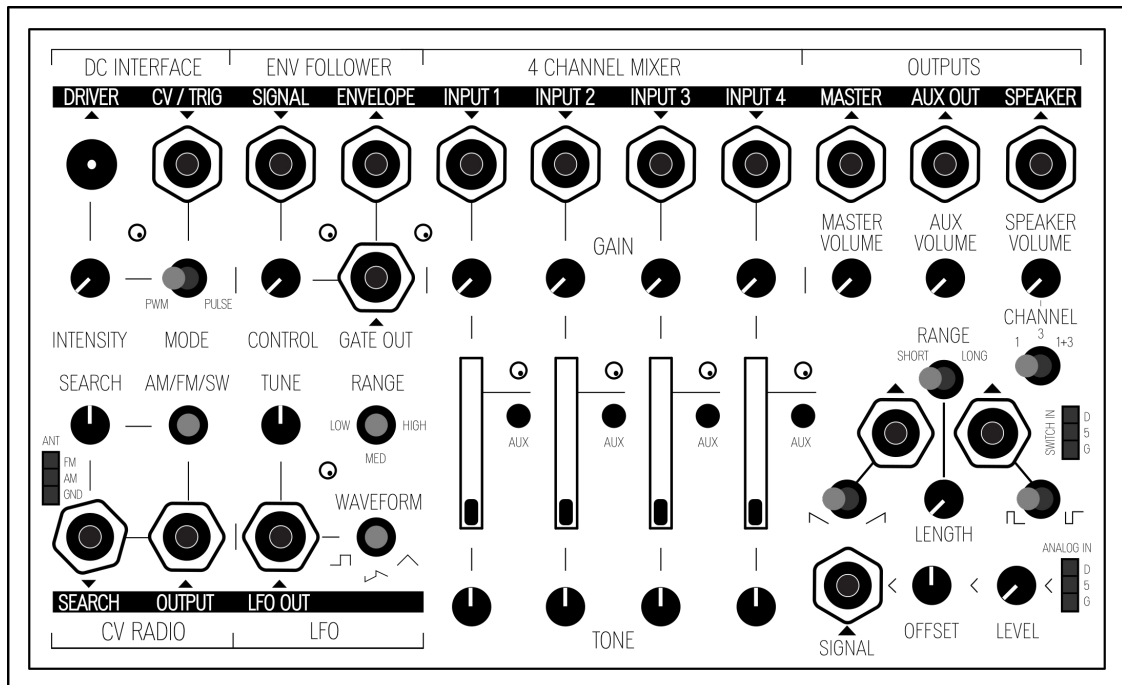


FieldKit DIY Manual



Required Materials

- 1 x FieldKit PCB
- 1 x FieldKit Front Panel
- 1 x FieldKit Wooden Enclosure (Bottom + Lid)
- 4 x Small Bottom Pad
- 4 x M2.5 woodscrew

- 1 x Horizontal DC Jack
- 1 x Vertical DC Jack
- 17 x Vertical Minijack
- 17 x Beauty Nuts
- 18 x Minipot
- 4 x Small Slider Pot
- 1 x DPDT Toggle Switch
- 3 x SPDT Toggle Switch
- 4 x SP3T Toggle Switch
- 4 x Tactile Button w/ long Shaft
- 4 x LED Amber
- 4 x LED Red

- 1 x (1x2)-Jumper

Required Tools

- Soldering Iron
- Drill / Screwdriver with Phillips head
- Plastic clamps
- M8 Hex Socket (optional)

Build

1) Hardware

Introduction:

Follow the silkscreen to determine where each part goes.

Each part only fits one footprint so it's usually only possible to place a part to its correct place. The only time where you have to pay some attention is when placing the switches (DPDT and SP3T have the same footprint).

Let's get going!

First, let's start with the horizontal and vertical DC connectors on the top left corner of the PCB. You have to make sure by eye that they sit straight on the board.

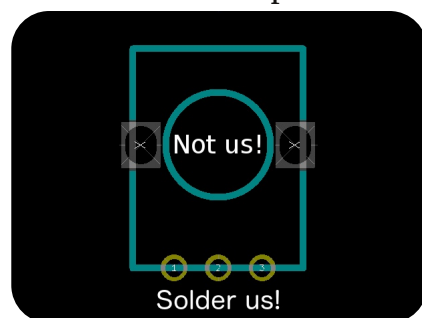
Place and solder in:

- 1) 1 x Vertical DC Jack (top left)
- 2) 1 x Horizontal DC Jack (top left)

Next, let's put in the tactile switches, the small pots and the slider pots. They should all orientate nicely by just standing in their footprints. With the slider pots you have to make sure both the bottom and top side sit flat against the PCB by pressing them down with your fingers. The chassis pins don't have to be soldered from the small pots!

Place and solder in:

- 1) 4 x Tactile Switch (middle of PCB)
- 2) 4 x Small Slider Pot (middle of PCB)
- 3) 18 x Small Pots (all over)



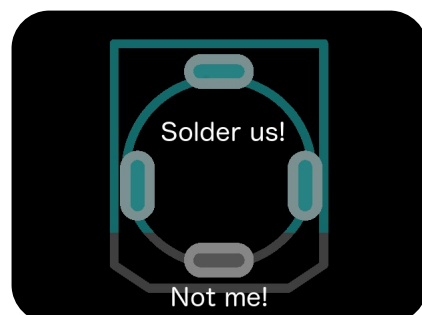
Next, let's place in all the minijacks and make sure they stand straight by fitting the front panel on top. By doing this we make sure no extra mechanical stress is introduced which could decrease the parts lifetime.

Place in:

- 1) 17 x Minijack (all over)

Put on front panel and make sure all the minijacks fit in. Clamp the front panel from the corners. After this you can solder in all of the minijacks.

speed tip: only 3/4 of the pins need to be soldered except for J-AudioOut which needs to be fully soldered (says 'solder real good' on bottom silkscreen)



Next, we continue putting in the three types of toggle switches using the front panel to have them stand straight. Make sure the 'keyway' on the switches is always pointing left and you don't mix up the SP3T and DPDT switches (they can fit the same footprint). We can also already place in the LEDs so we don't have to take the front panel out once the toggle-switches are done. The LEDs should be placed in so that the long leg (anode, +) is facing left.

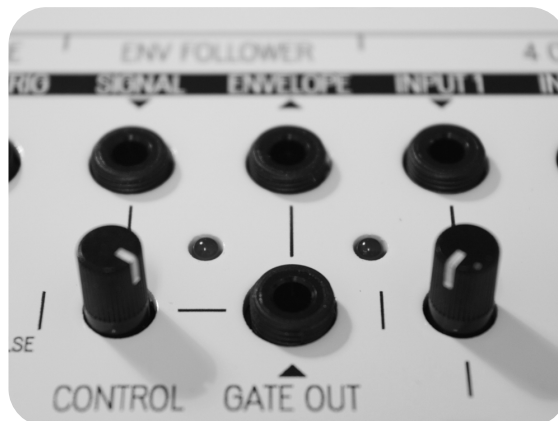
Place in:

- 1) 1 x DPDT (silkscreen: SWITCH_DPDT)
- 2) 4 x SP3T (silkscreen: SWITCH_SP3T)
- 3) 3 x SPDT (silkscreen: SWITCH_SPST, woops $\wedge _ _ \wedge$)
- 4) 4 x LED Amber (next to slider pots)
- 5) 4 x LED Red (remaining LED locations)



Fit the front panel on top of the parts and clamp it on top from the sides. Make sure all of the switches are fitting through. Once you start soldering in the switches, you have to push them down with your fingers to make them sit flat against the PCB.

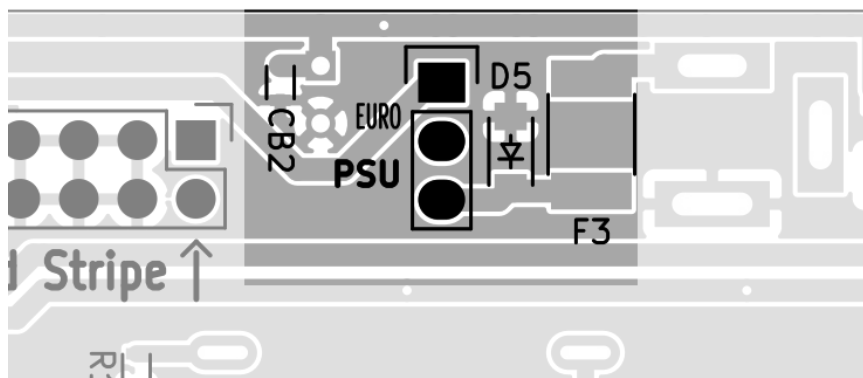
After the switches it's only the LEDs remaining to be soldered. Before soldering the legs, make sure the LEDs sit correctly in their openings. You can adjust their position by wiggling them from their legs.



When the LEDs are in their places:

- 1) Solder them in
- 2) Snap off the extra length off the legs

Finally we are going to put a jumper over the power selectors pins to have the Field Kit powered from the PSU (other option would have been the EuroRack power). Place the 1x2-Jumper over the 2 innermost pins like also instructed on the silkscreen.



2) Mounting the PCB

Next we are going to do the little things needed to have the Field Kit sitting in its wooden enclosure.

Take out the front panel if you still have it on from the previous phase.

Place the fully fabricated circuit board inside the bottom part of the wooden enclosure. Make sure the four mounting holes align with the pre-drilled holes on the corner pieces inside the enclosure. Mount the circuit board from its corners using the four M2.5 woodscrews.

Place the front panel back on. Put on and tighten the beauty nuts on the minijacks. Don't overtighten the nuts, "hand-tight" is enough. You can use a plastic M8 hex socket or just your fingers.

Attach 4 bottom pads on the bottom corners of the wooden box. A few millimeters (~2mm) from each corner is a good location.

Congrats, you're done with building the Field Kit!