

STEREOPING

MATRIA GLOBALESSA

Building instructions V1.0

PCB V1.3

05/2026



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1. Hello

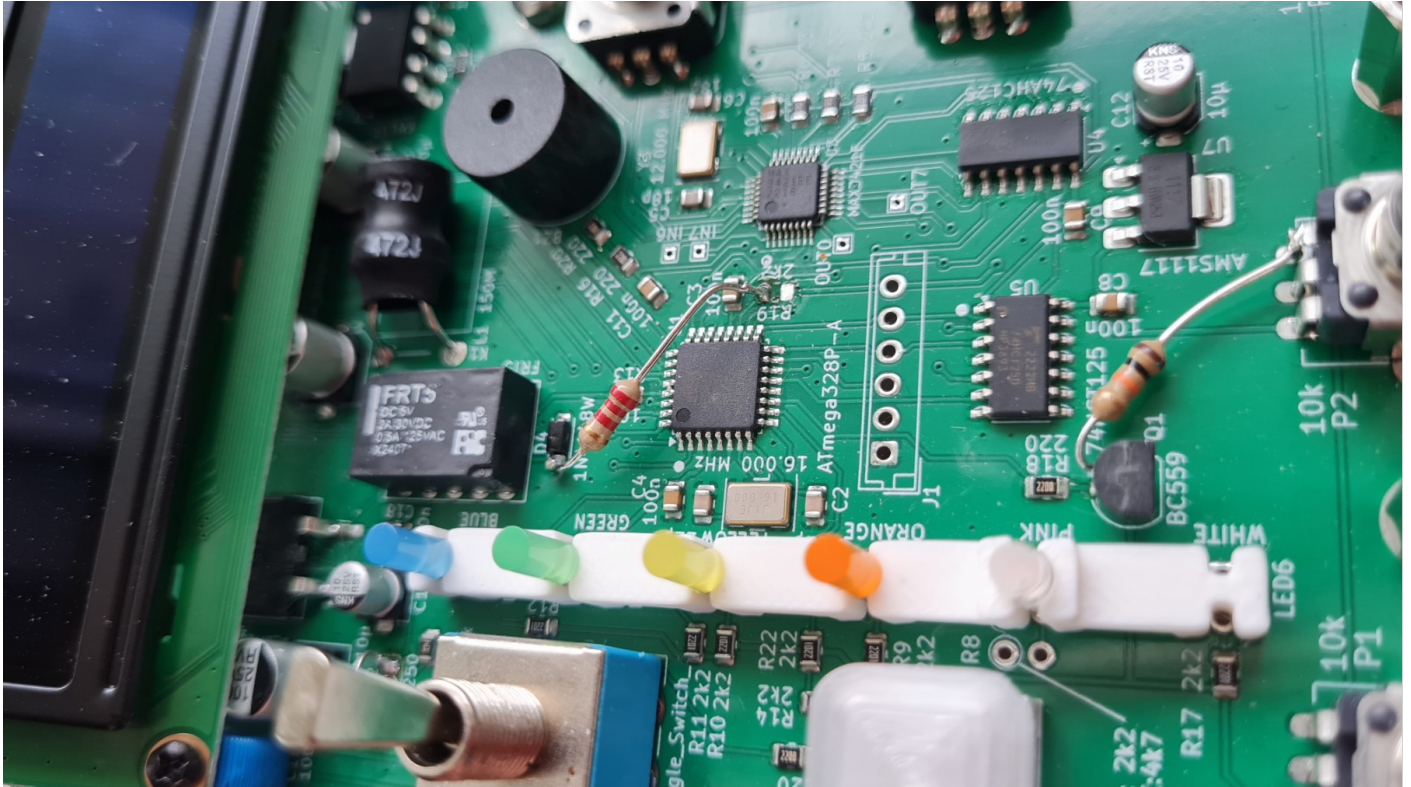
Hi and thank you for having chosen the Stereoping Matria Globalessa assembly kit. Assembling this thing is really easy. There is a youtube video of the process on the Stereoping youtube channel, as a consequence this PDF contains many screenshots of it.

If any question arises while building the kit ... just send it to hello@stereoping.com ... we will clear it up.

We can not be held responsible for any problems or damage caused by the building or usage of this assembly kit. Nor can we replace or repair PCBs, parts or complete kits, damaged or destroyed by inappropriate building or usage.

Before we start

The PCB is the very first official production run. I made a little PCB design mistake which was equaled out with a manually soldered big resistor onto the SMD PCB, the one in the middle with the 3 red rings. It will hold a life long unless somebody starts to manually rip around or presses onto it by mistake. So please take a bit care of the little buddy not to touch it or rip it off. The MATRIA GLOBALESSA will still work without the resistor but you will loose the battery power saving deep-sleep function.

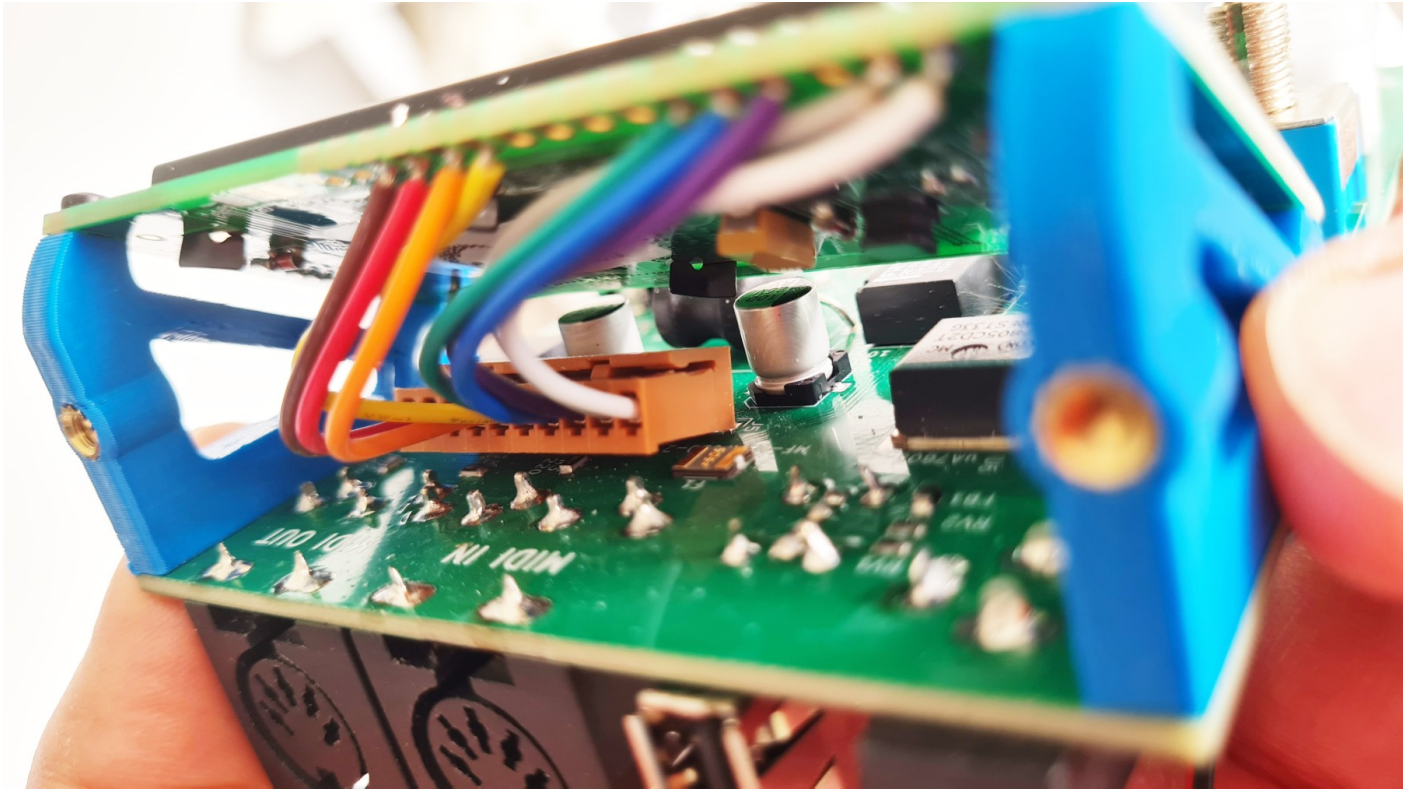


Therefore (and for other reasons): please try to hold the PCB by the edges or the standoffs after they are attached. Try not to touch the electronic parts.

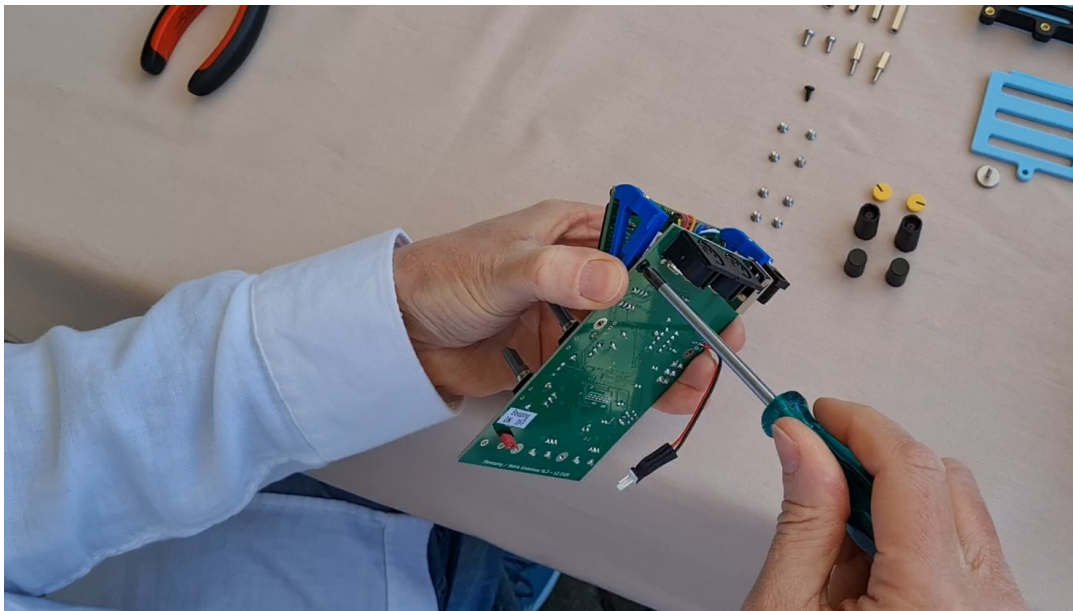
3. Getting it together

Display to PCB

1. Plug the cable of the display into the socket on the main PCB. There is only one direction to fit. Push it completely in, there should not be a gap between the plug and the socket.



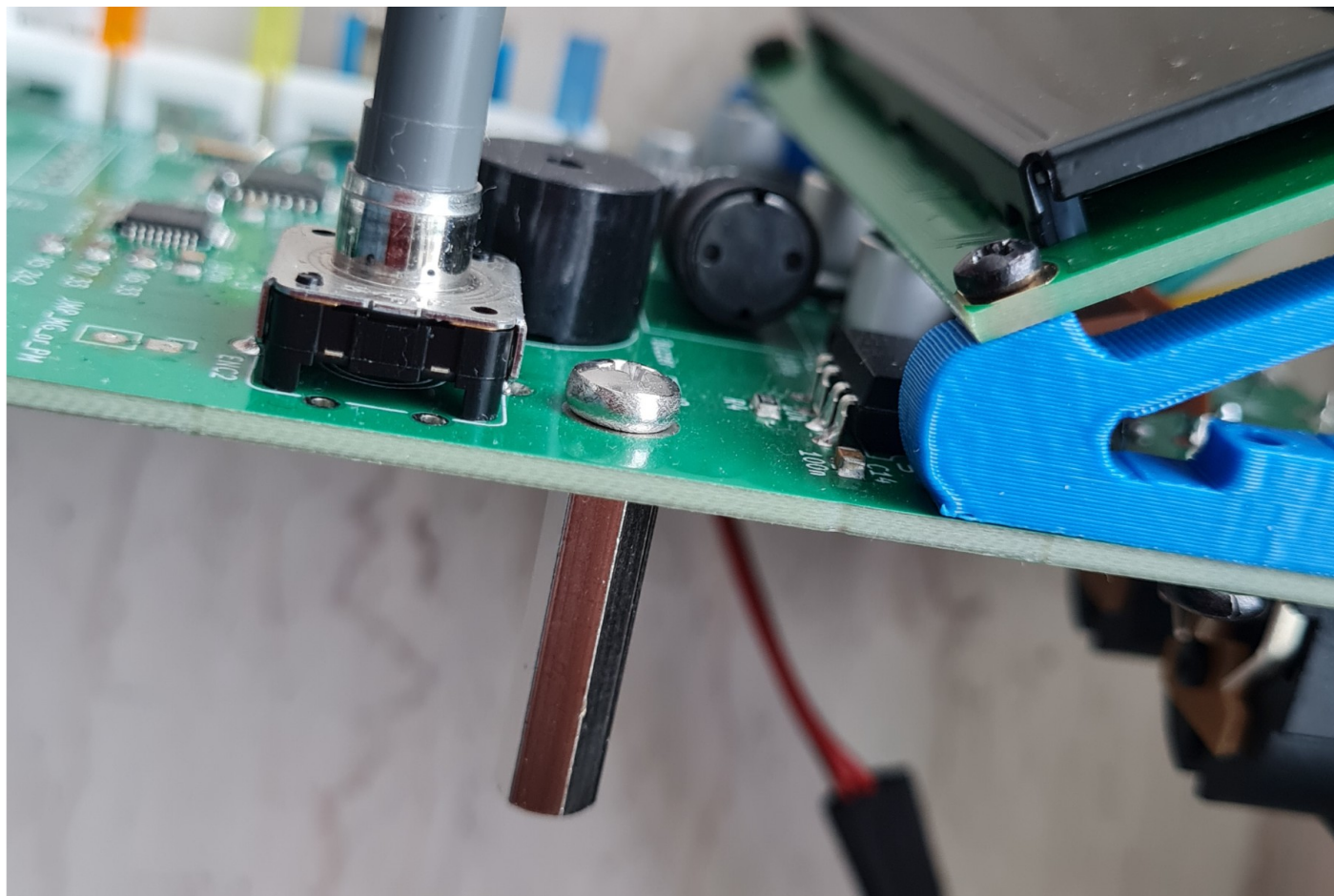
2. Take the two sheet metal screws and secure the display from below. Loosely screw both of them in first.



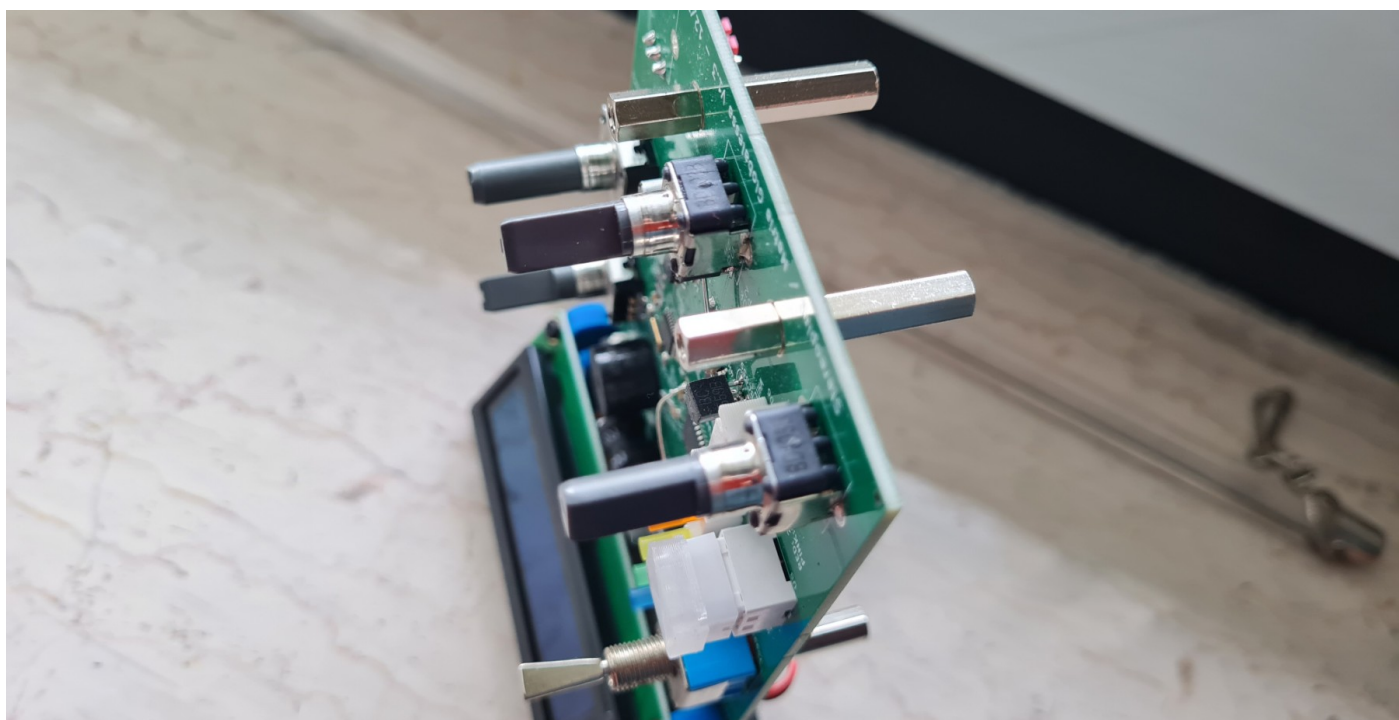
3. Finally tighten them until the bracket fits snugly on the circuit board. Don't overtighten the screws or the plastic will eventually crack.

Standoffs

1. Now on to the standoffs. All 4 long ones come to the backside of the PCB. The two standoffs beside the display are secured with the M3 screws.

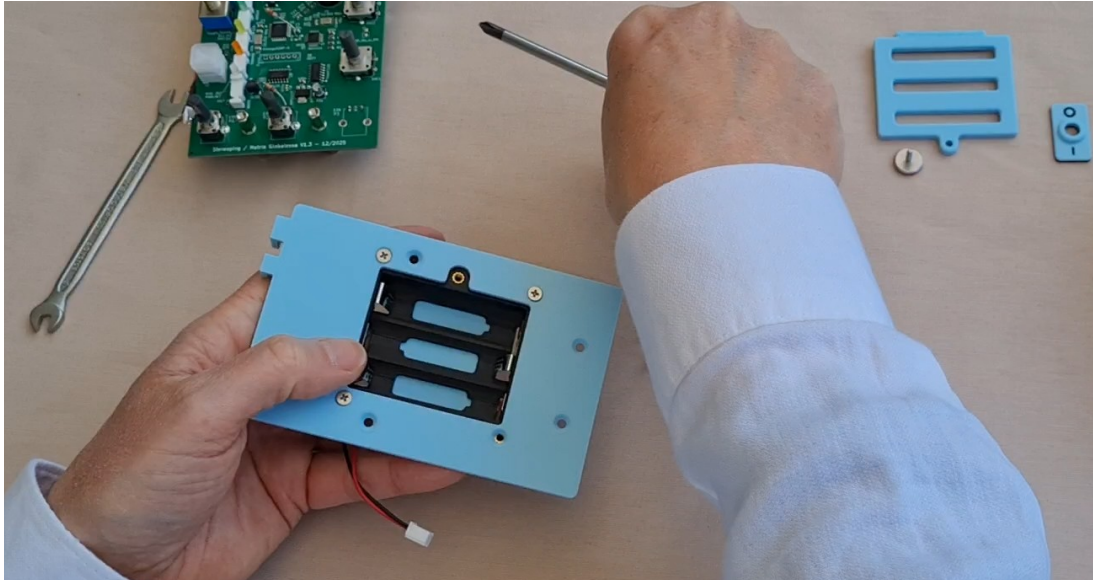


2. The two long standoffs beside the pots are secured with the two short 20 mm standoffs. To secure them you can use a 5mm open-end wrench or a pliers or both or even just your fingers. They do not need to be tightened much.



Battery compartment

1. Attach the battery compartment to the bottom plate with 4 of the 12 supplied M3 countersunk screws.

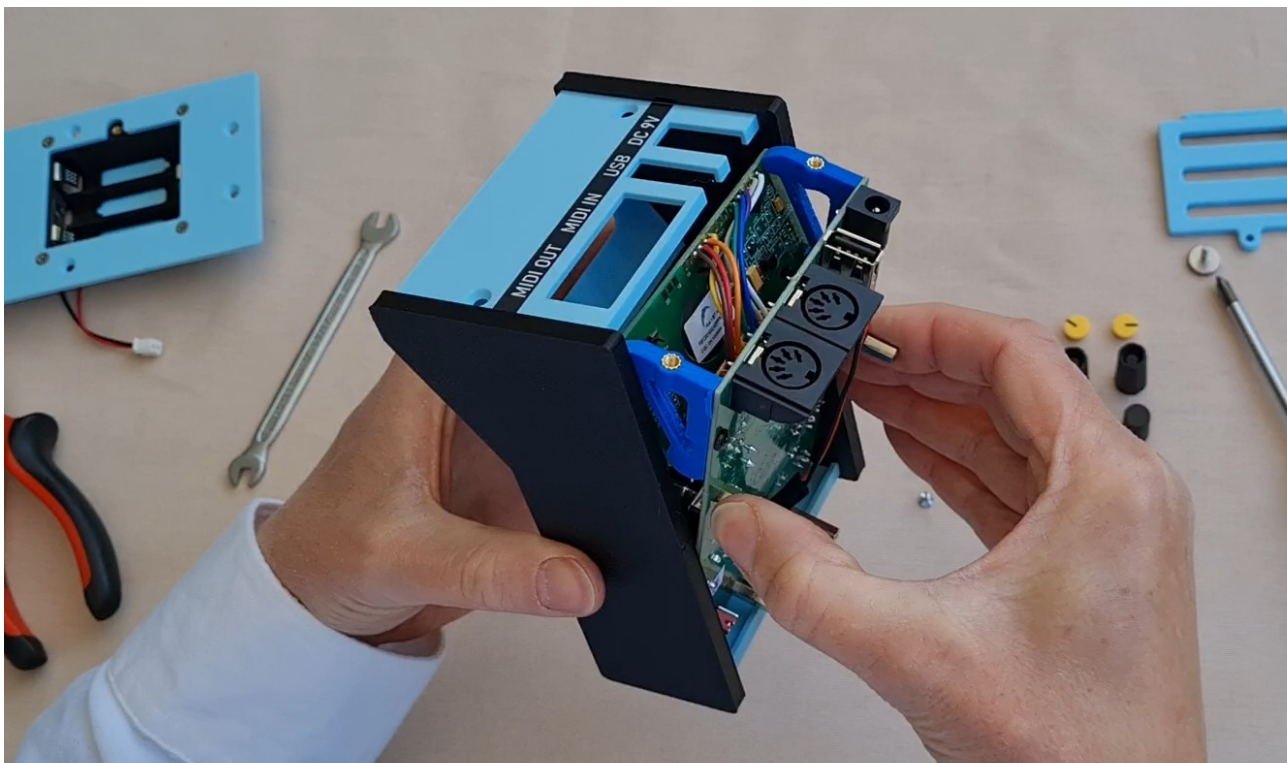


2. First screw all four loosely to help them find their place. Afterwards they will be tightened ... not to tight. The threads can stand a lot but in the end they are just heat set inserts in plastic. They can be ripped off when using excessive force.

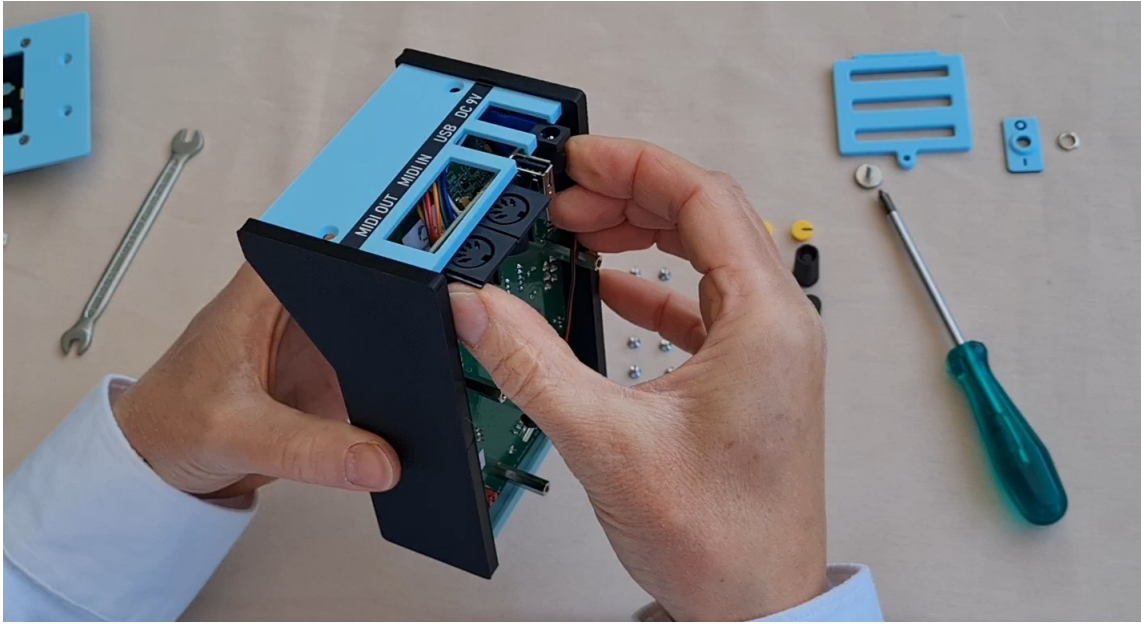
PCB into the case

Now we put the PCB into the case. Grab the PCB by the sides or the standoffs, flip the switch towards the display. Everything should work without excessive force.

1. put the PCB into the case with it's front edge first. That's the edge where the pots are located. This edge dives into the case first.



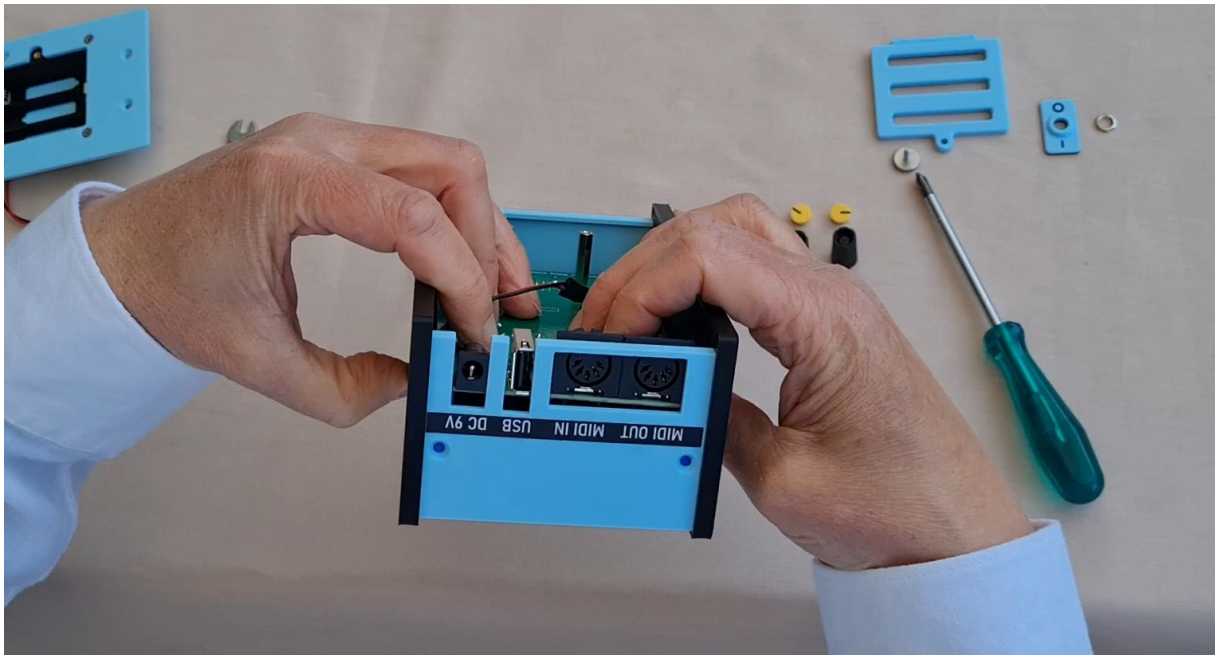
2. then slide the backside (where the display is located) inside the case.



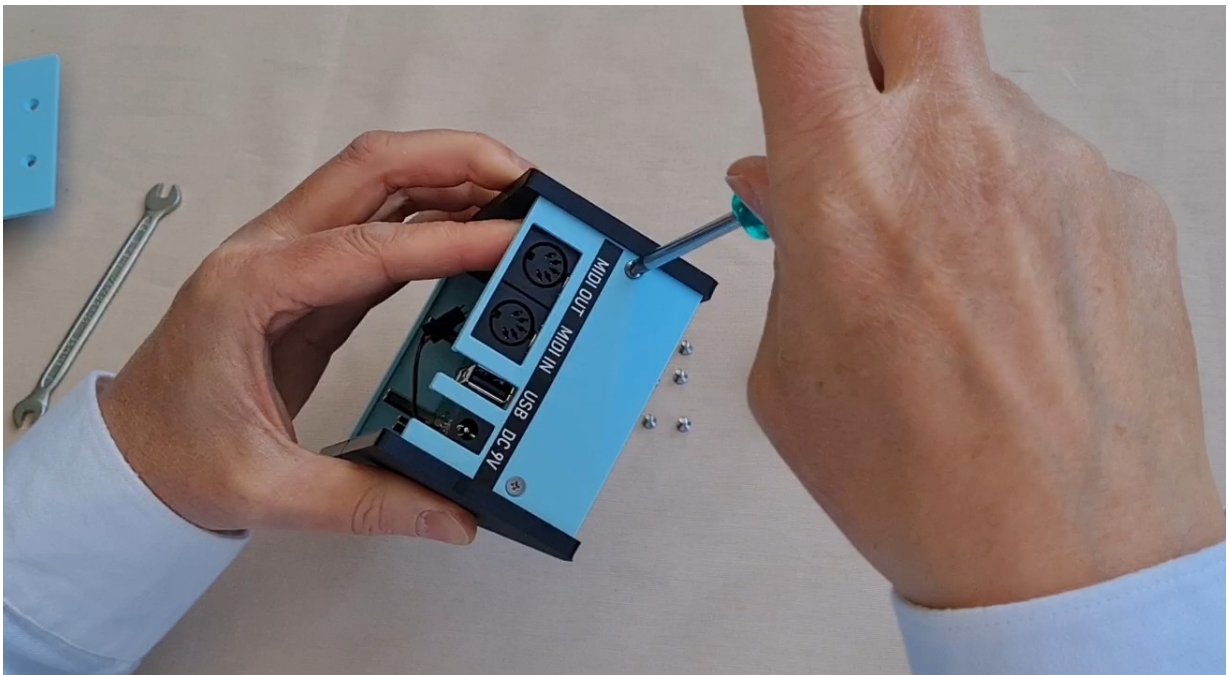
3. turn the case around and wiggle the PCB until the switch and the pot axis are finding their holes. If you like you can safely grab the switch handle to move the PCB from above. Sometimes the JUMP buttons needs a little manual help to snap through it's opening.



4. After the switch, pots and JUMP button made it through the frontpanel press on the PCB where the jacks are until the PCB snaps into it's final position. It's the MIDI jacks which need to be pressed over an edge on the case's backside. The threads and screw openings on the back should be aligned then.

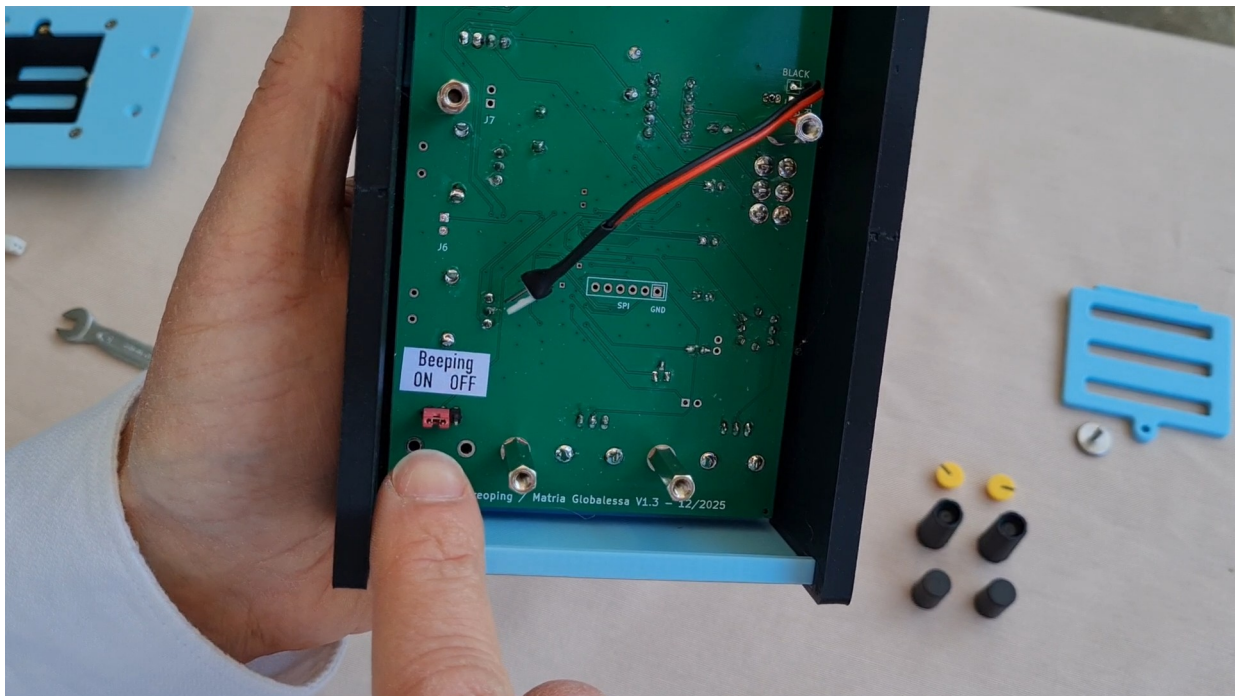


5. The next 4 screws are used to secure the PCB in the case. Two on the backside where the jacks are, the other two on the frontpanel between the two ARP pots. First all loosely, then you can tighten them.



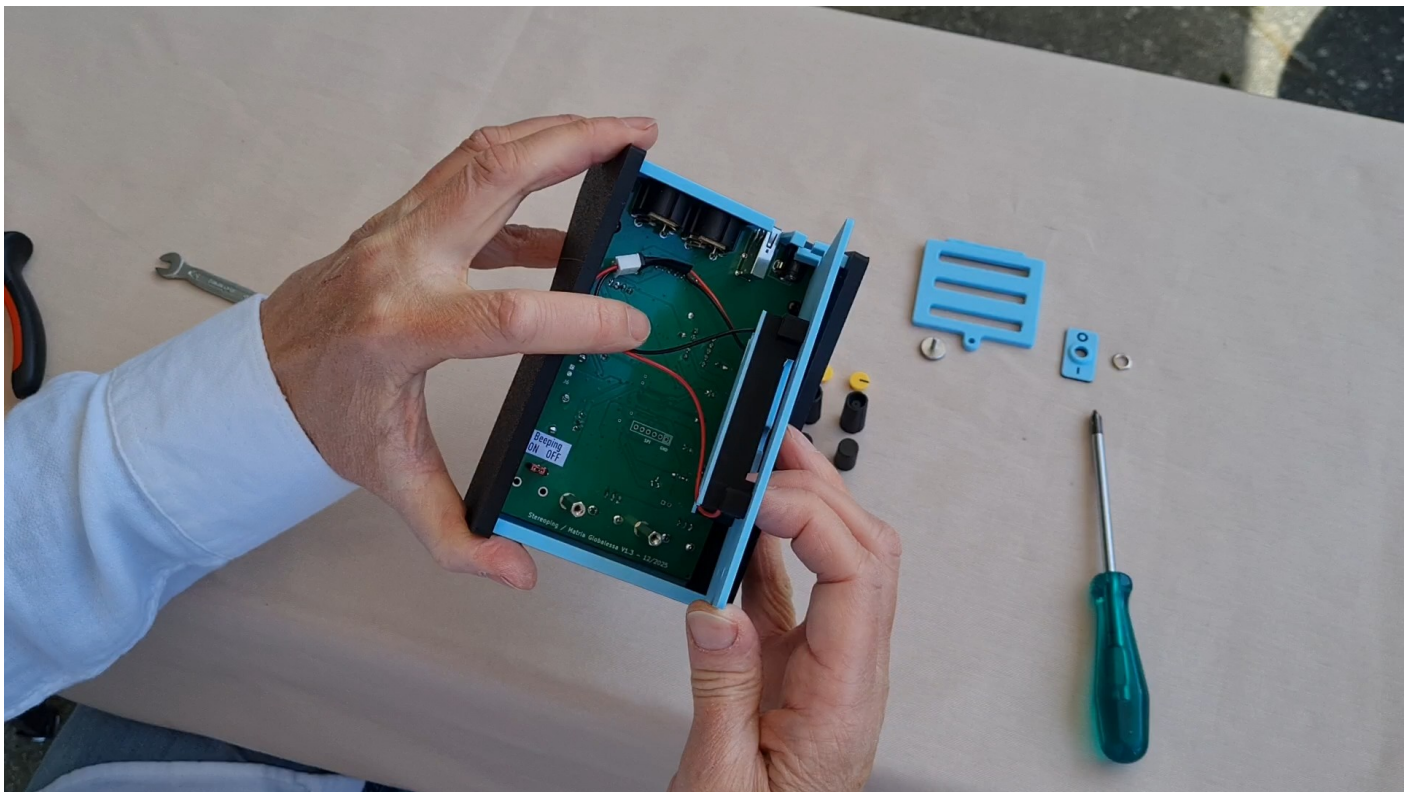
Audio feedback jumper

Before we close the case: there is a jumper for configuring if your MATRIA GLOBALESSA should make ticks and beeps or not. Set it accordingly.

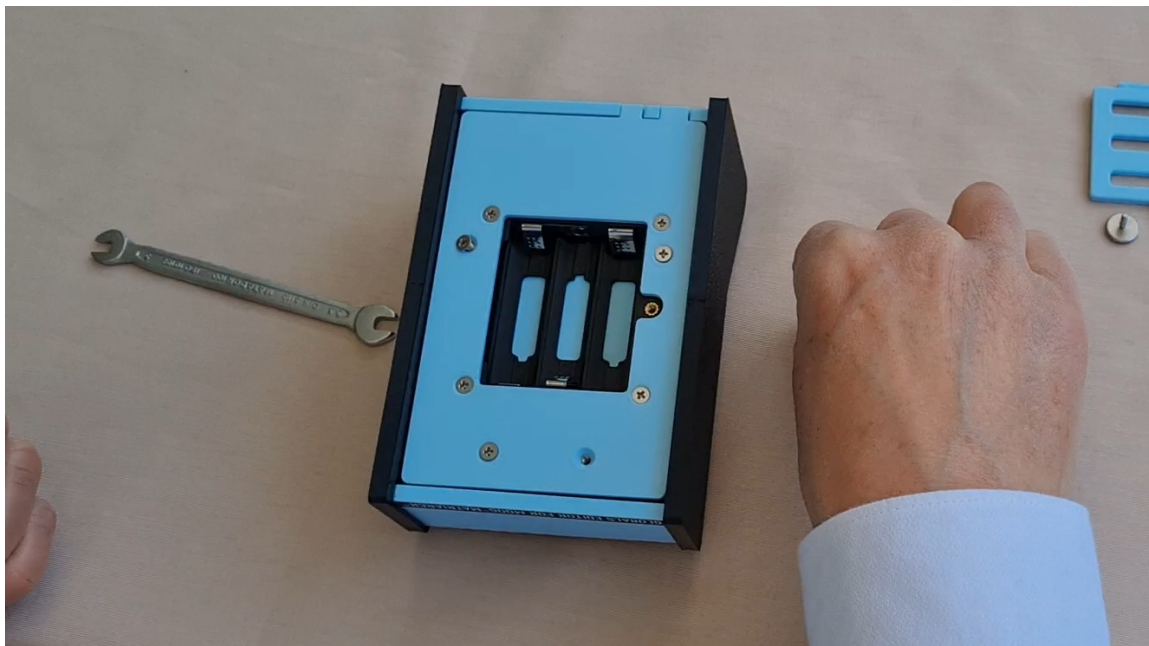


Closing the case

Connect the battery cable to the battery compartment (only one direction will fit) and close the case. If the battery plug is pinched between compartment and PCB, move it out of the way.



The last 4 screws are for the bottom plate. As always: first all four screws loosely, finally secure them. Finally insert the battery cover and secure it with the knurled screws.



Encoder and pot knobs

1. Encoder and pot knobs have a D-shape, you can not go wrong here.
2. Turn knobs fully counterclockwise and ...



3. ... find the marking at about 45° - attach the cap.



Switch cap

If you like the switchcap you finally can attach it. The size for the nut is 8mm or simply use a pliers.



That's it :-). The firmware is already installed. After powering it up and switching it on your Matria Globalessa should greet you joyfully.

4. Imprint

Stereoping is a registered trademark of Gregor Zoll, Germany.

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