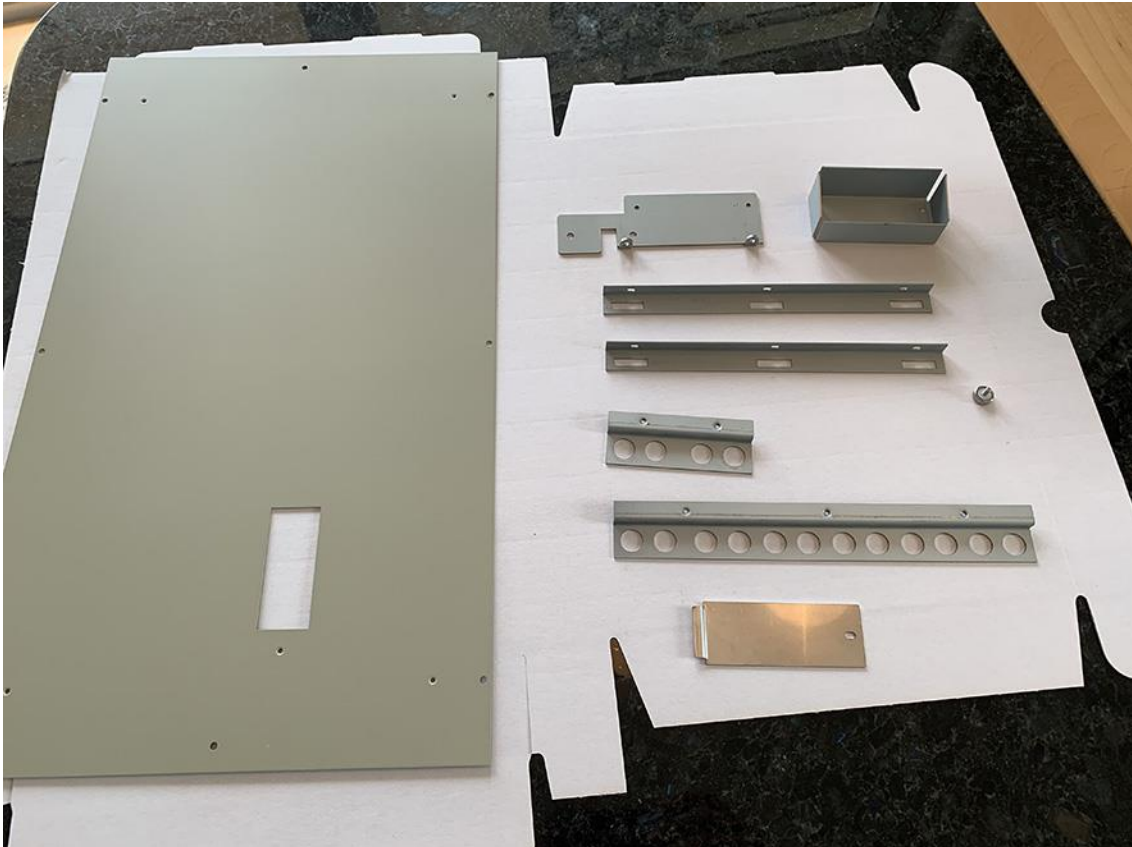


## RE-909 case assembly guide

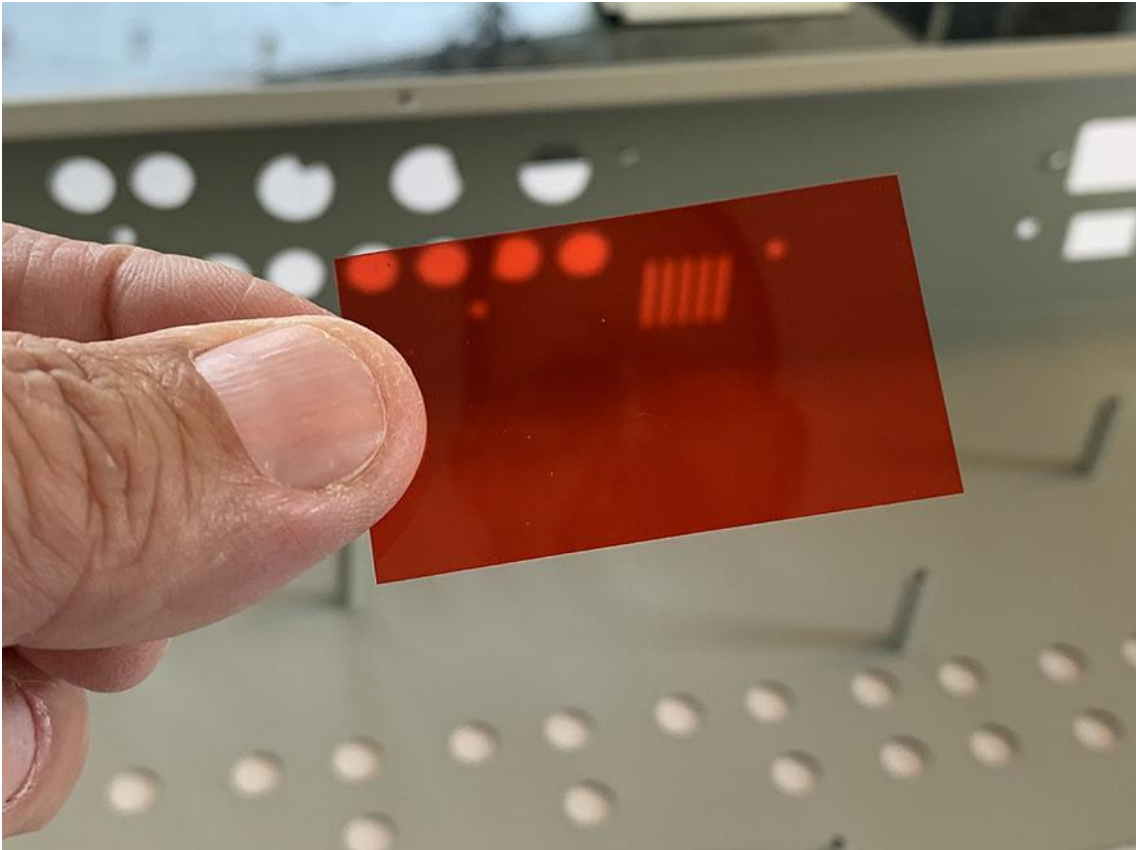
After unpacking make sure that everything is there. The housing essentially consists of a top part, a base plate, a battery flap with knurled screw, a battery compartment, two Z-brackets for the audio and MIDI board, two L-brackets for the side parts and the plastic side parts themselves.

There is also a retaining plate for the safety PSU. In addition, a bag with fastening material.



The best thing to do is to get a piece of clean cardboard or a cloth so as not to scratch the upper part of the housing or the other parts.

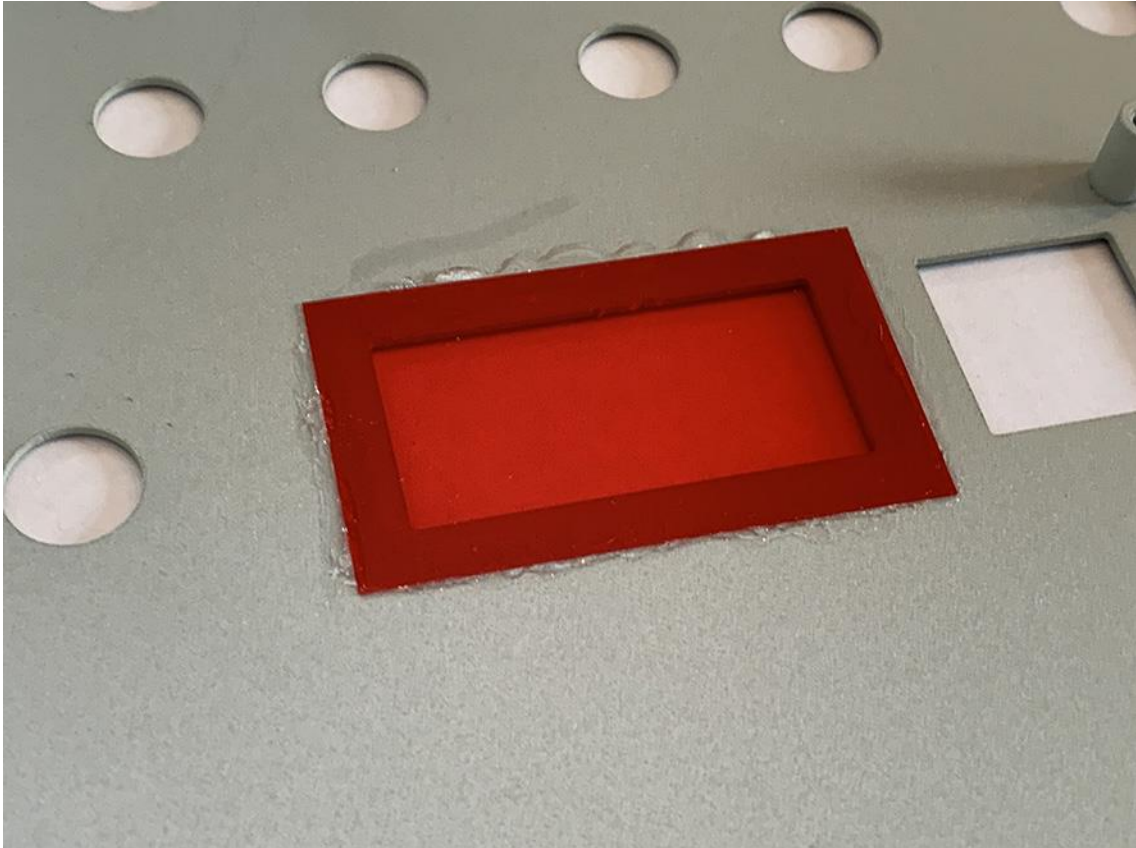
If everything is in there, the best thing to do is to start by gluing the red plastic shield into the upper part of the housing. This is stuck from the **inside** over the opening for the 7-segment LED display.



To do this, simply apply some glue (craft glue) from the **INSIDE** around the opening.



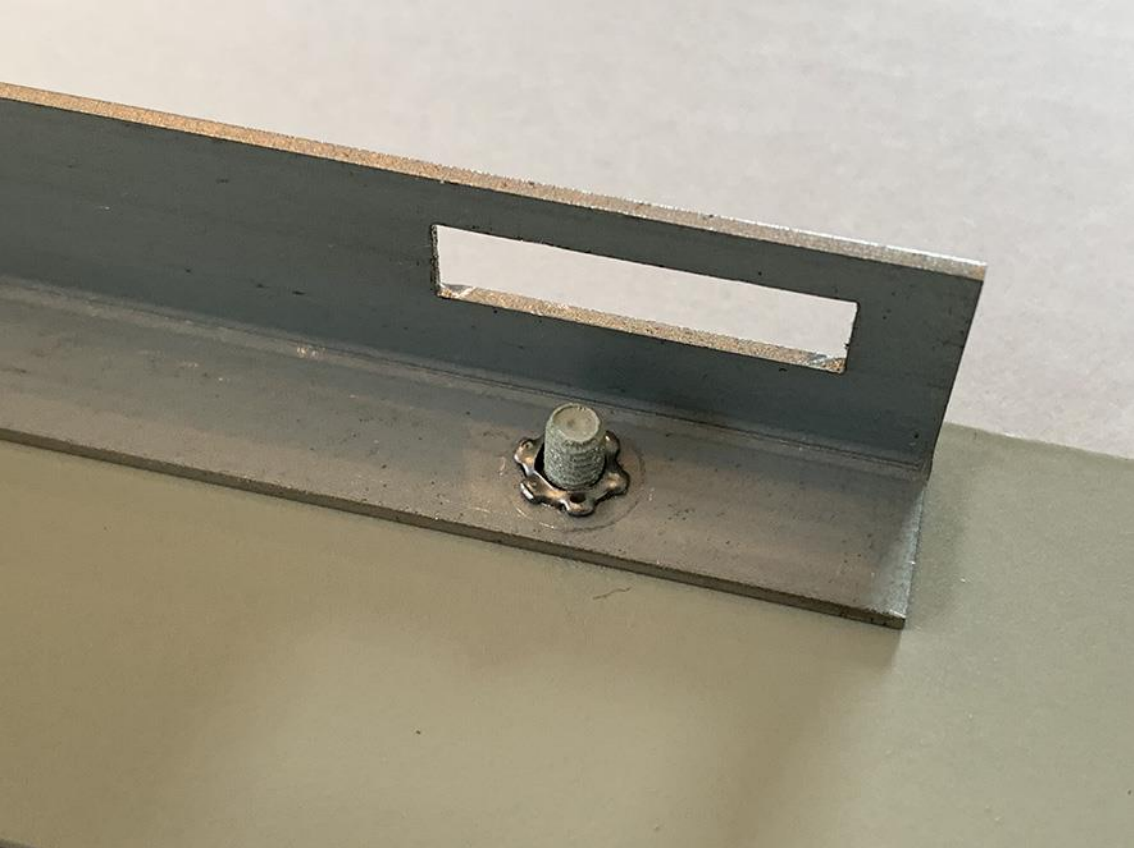
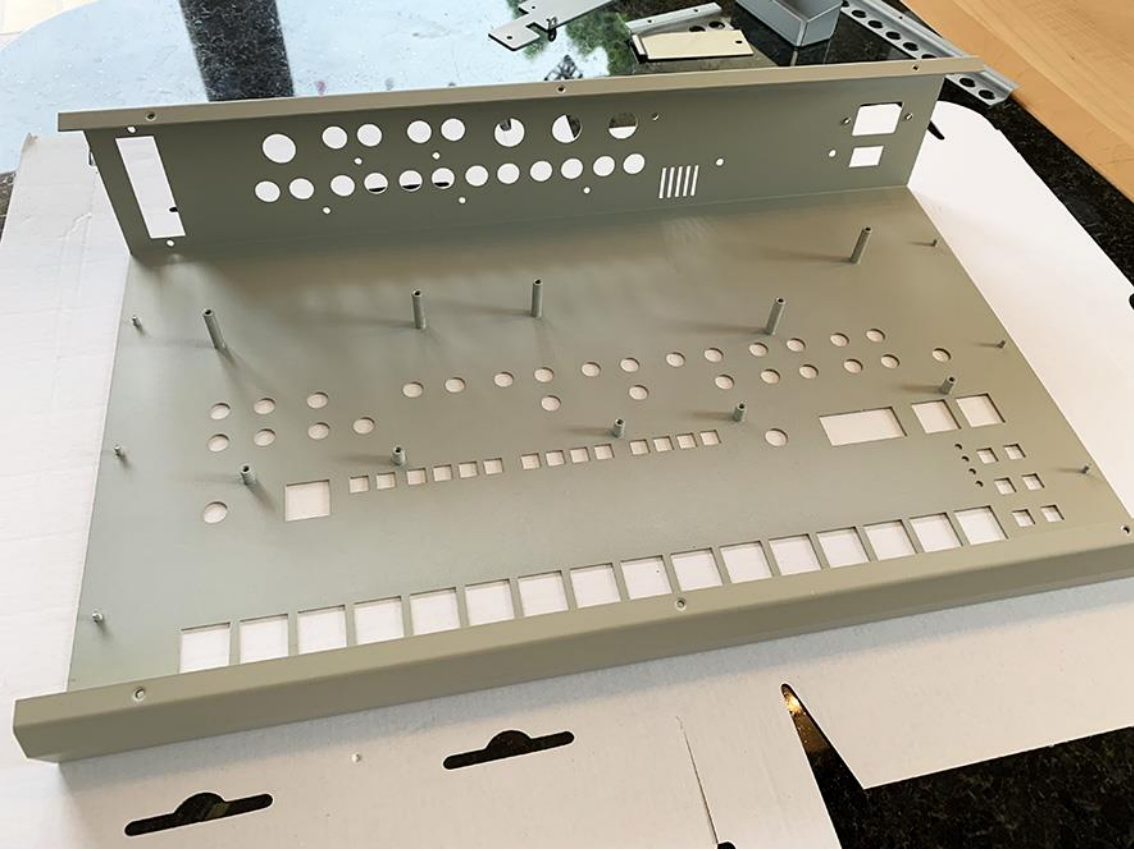
Before the glue dries, simply place the red label as centrally as possible over the opening and press it on gently. Make sure that the middle of the shield is not smeared with glue!  
The best thing to do is to simply lay it on the fresh glue and let it dry.



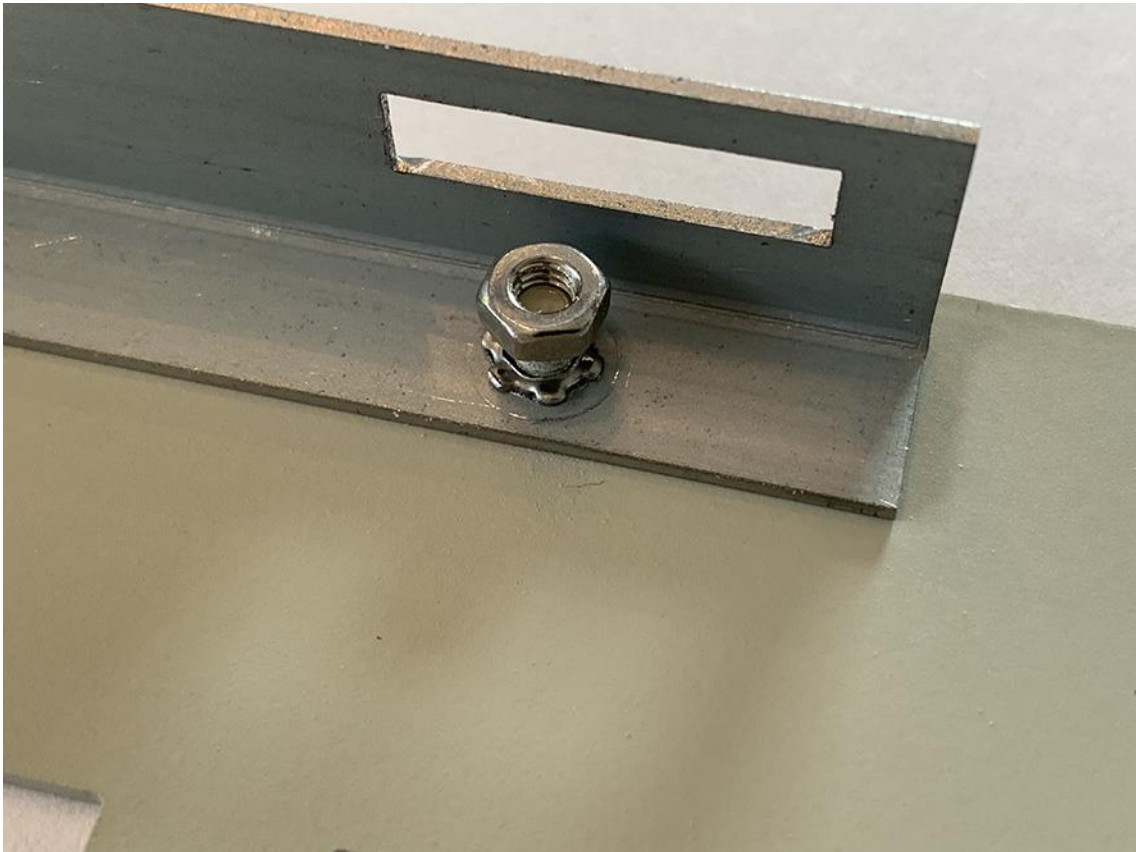
While we wait for the glue to dry and the sign to stick, we can already take care of the two L-angles. Take a small file and file a slight bevel (approx. 45 degrees) on the short outer and inner sides of the outer holes. As a result, the retaining lugs on the plastic side parts will slide into the openings much more easily!



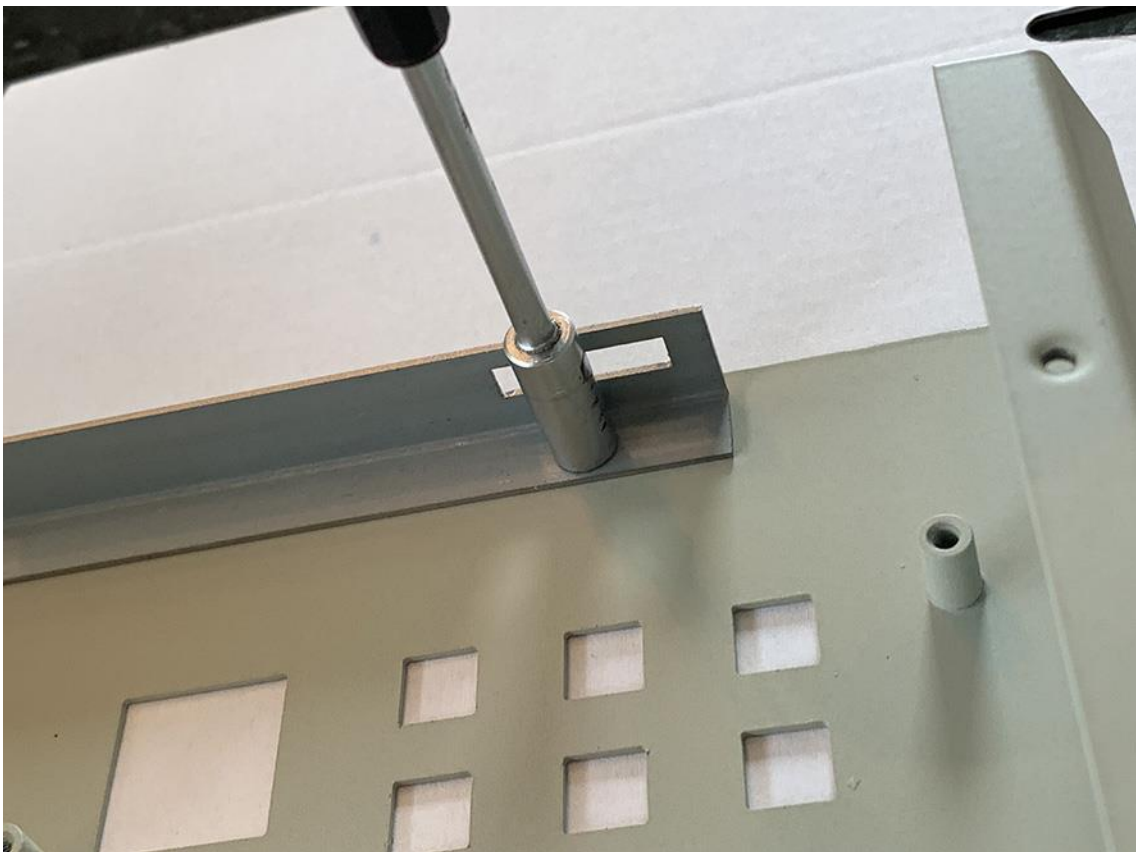
Now place your top case on a flat and clean surface to mount the L-brackets. You need 6x M3 nuts and 6x tooth lock washers.



The toothed washers are important so that the nuts cannot loosen themselves later.

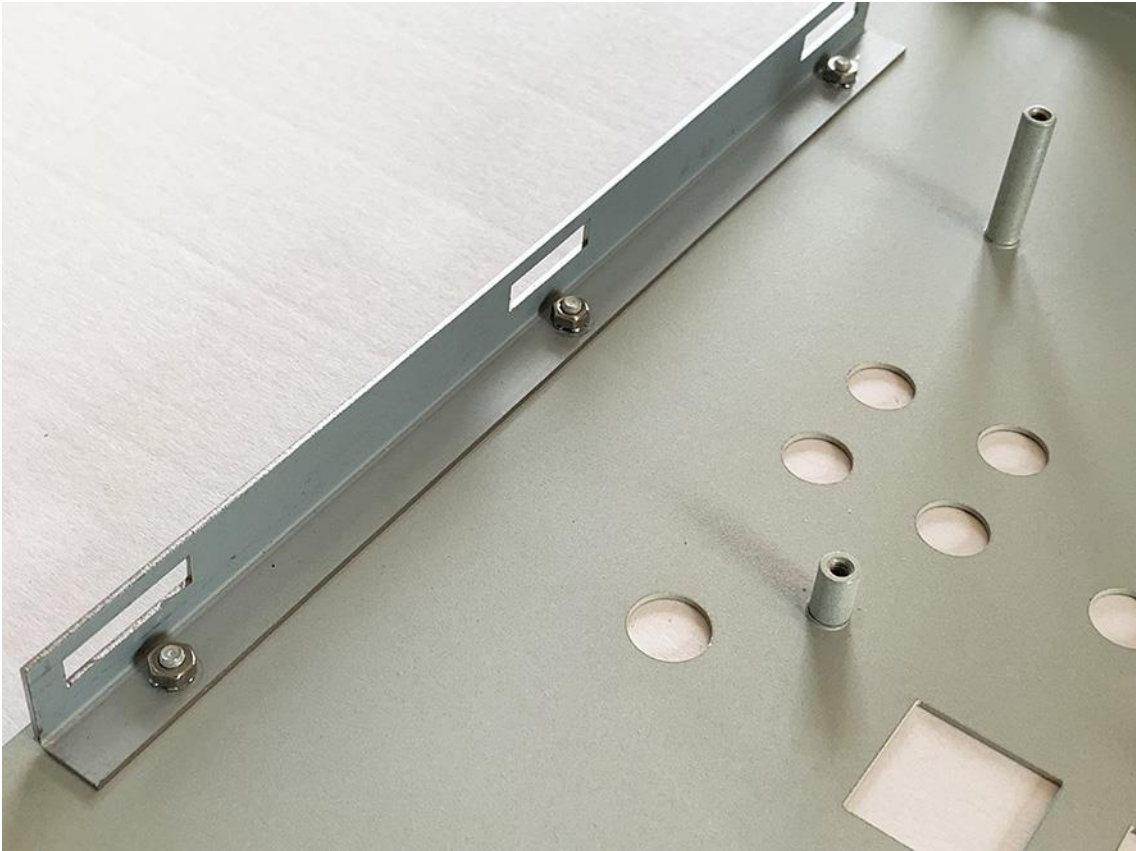


Tighten the nuts firmly and always check that the bracket is correctly positioned!

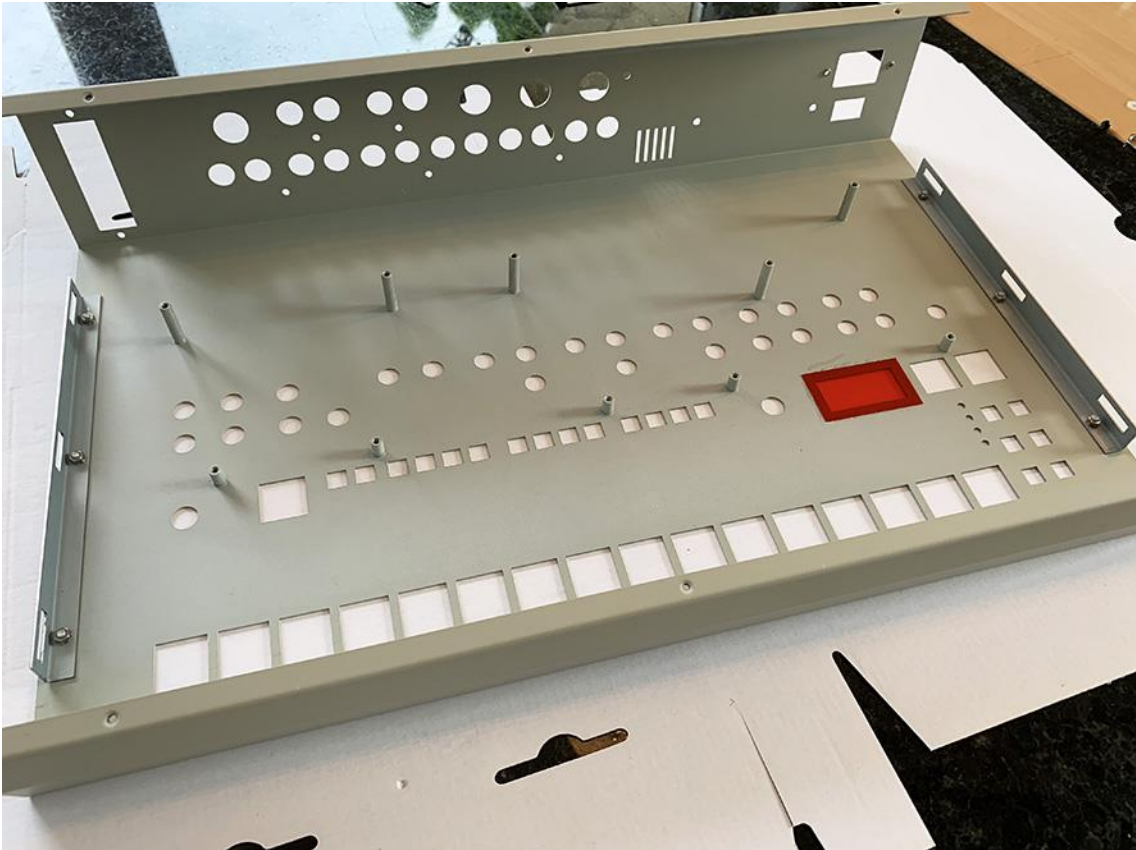


The M3 bolts will not tear off but don't overdo it. 😊

As soon as the L-brackets are attached, the upper part of the housing immediately gains noticeably more stability.



This is what it should look like by now, if everything went well!

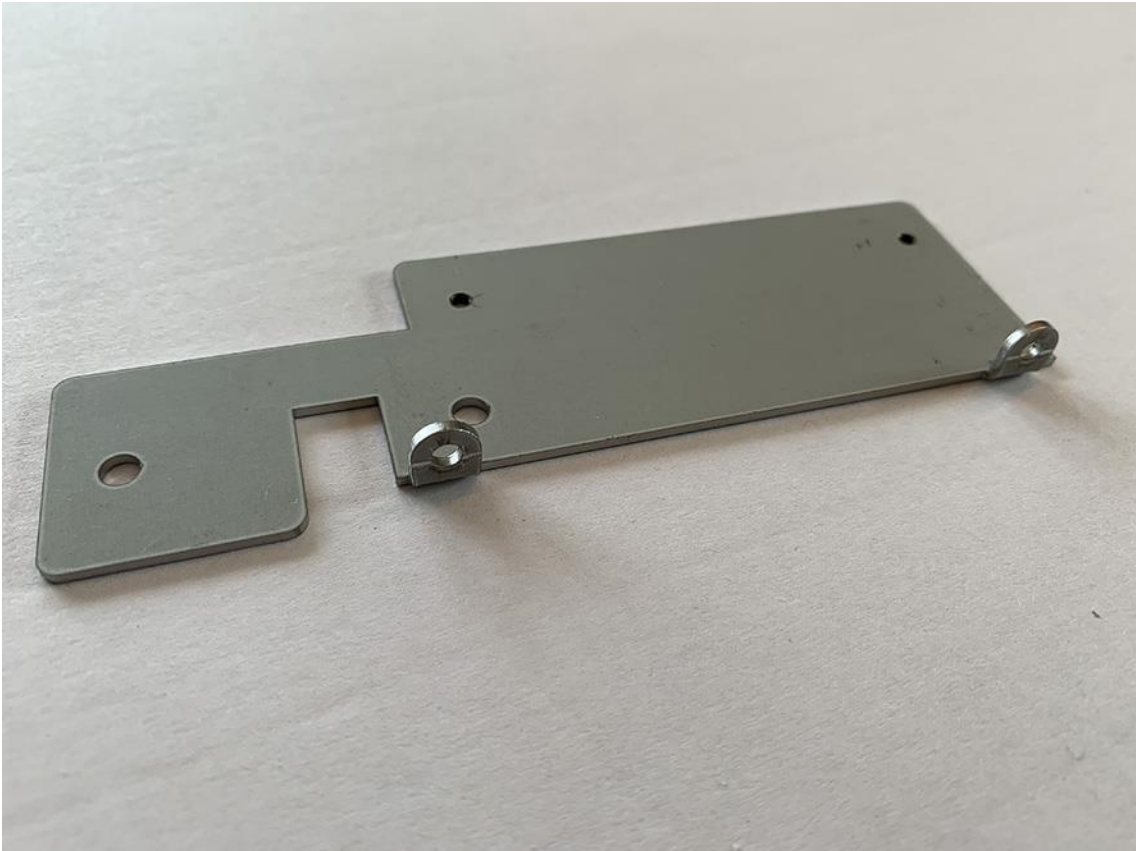


If you have a switch at hand, you can push it in directly. Rocker switches are standardized and should fit directly into the housing opening by simply pushing them in. (only by hand)

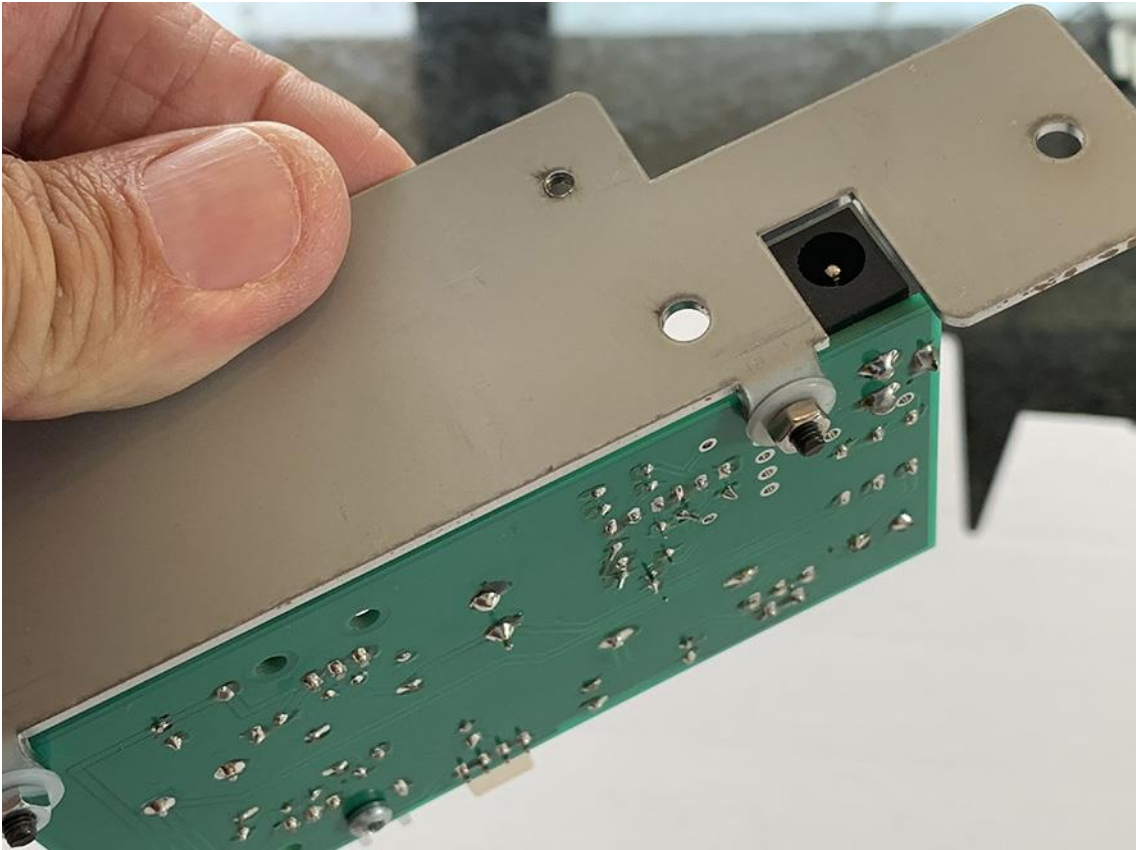




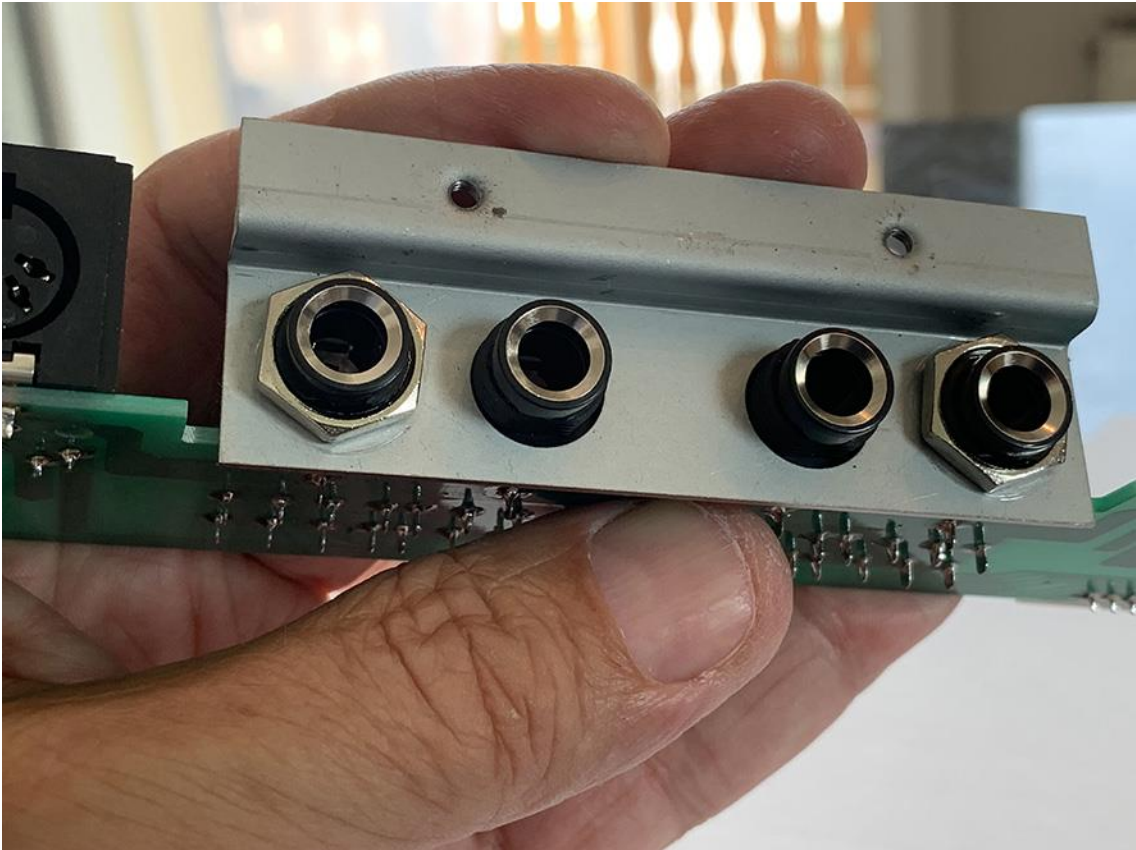
Now we come to the retaining plate for the safety PSU. We need two M3 screws, two M3 nuts and two thick plastic washers for the assembly.



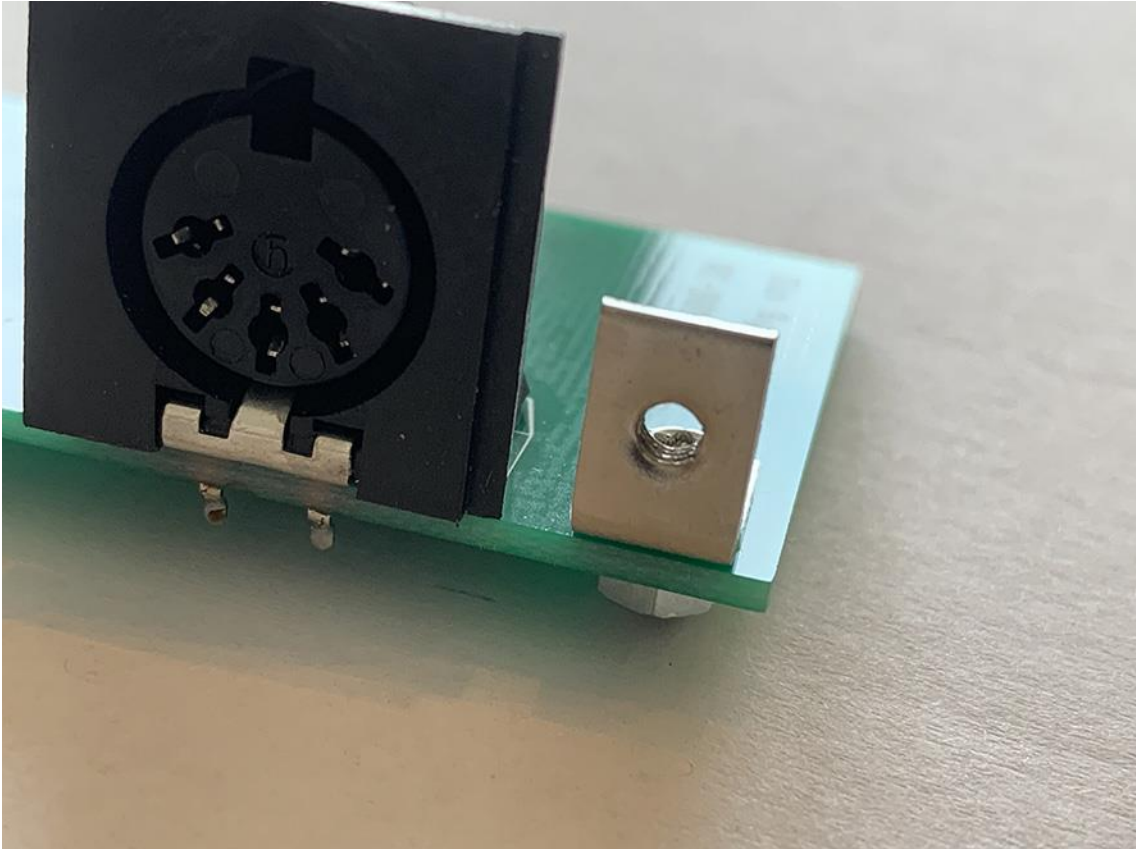
The assembly of the fully assembled PSU board is very easy and is actually self-explanatory.



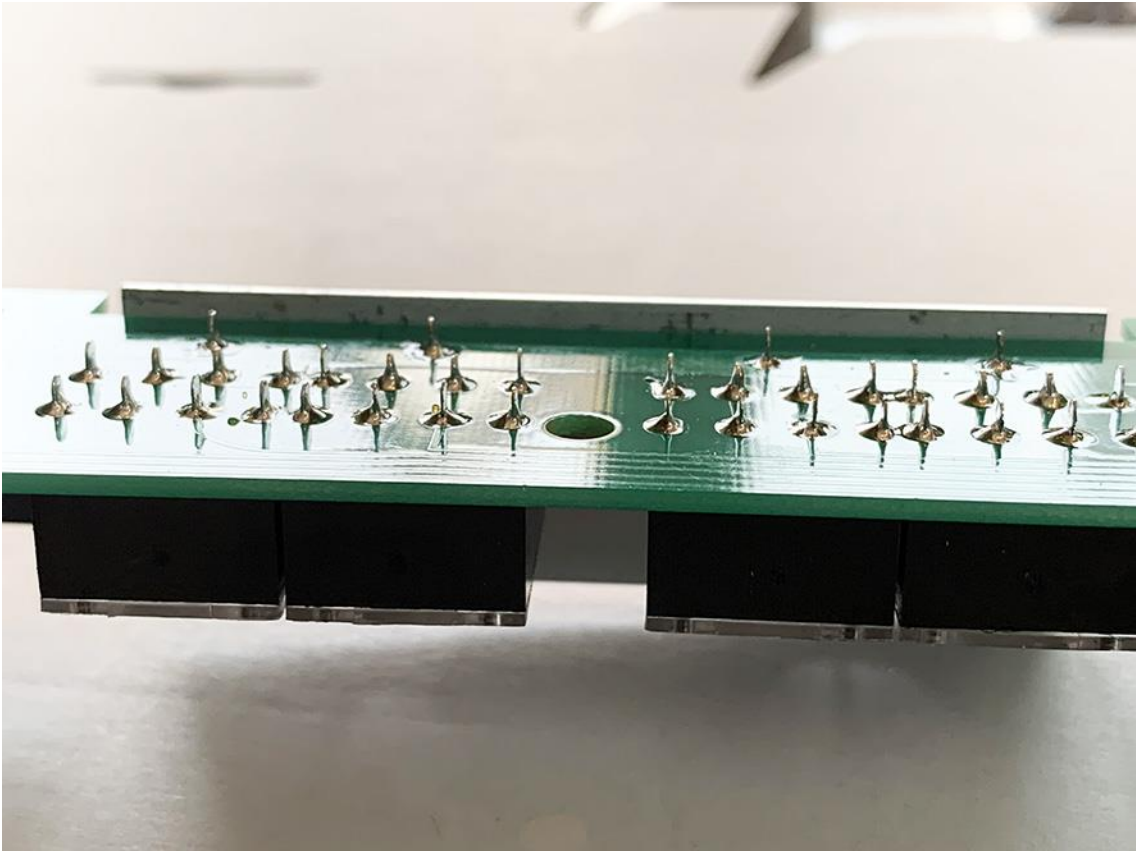
Next we mount the metal brackets on the MIDI board. For this we need the short Z-bracket and the small L-bracket with the M3 hole.



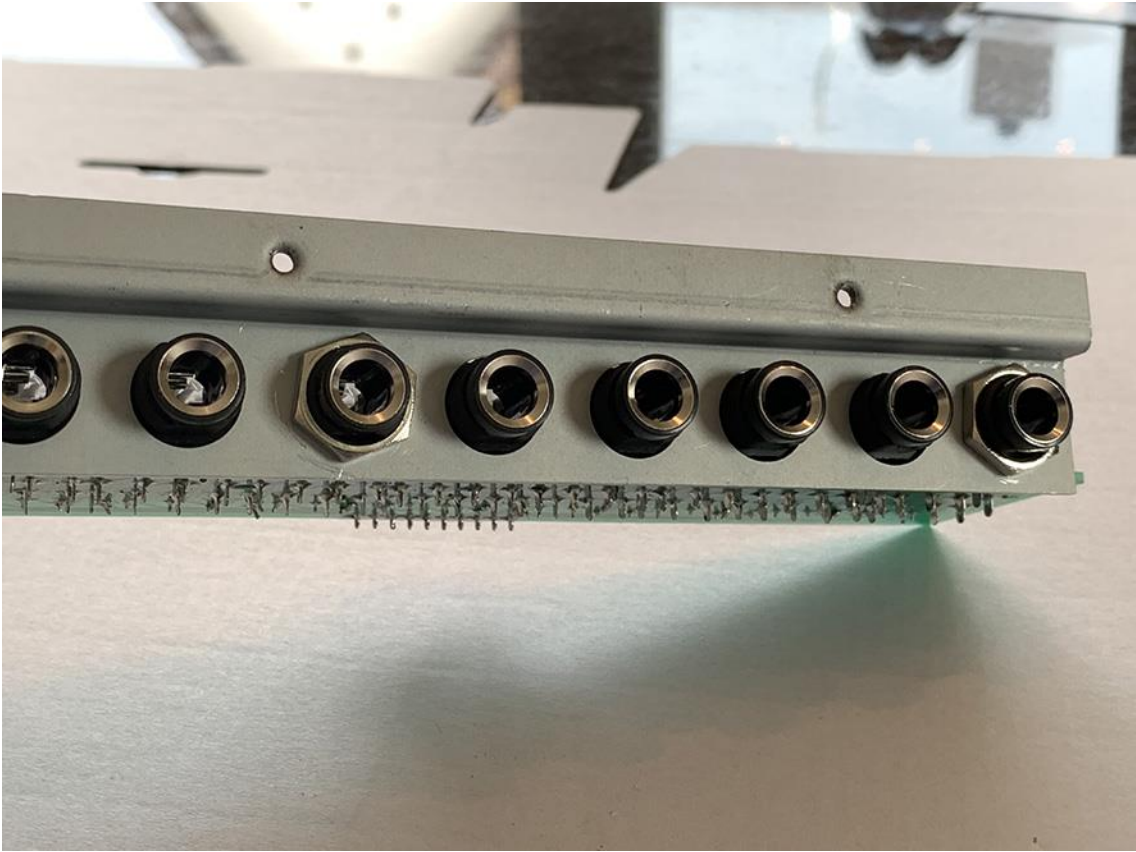
Attaching the M12x1 nuts is a bit fiddly, but it works. As can be seen in the photo, only two of the nuts are used, each on the outer sides. The small angle is attached to the side so that the side with the M3 thread protrudes upwards.



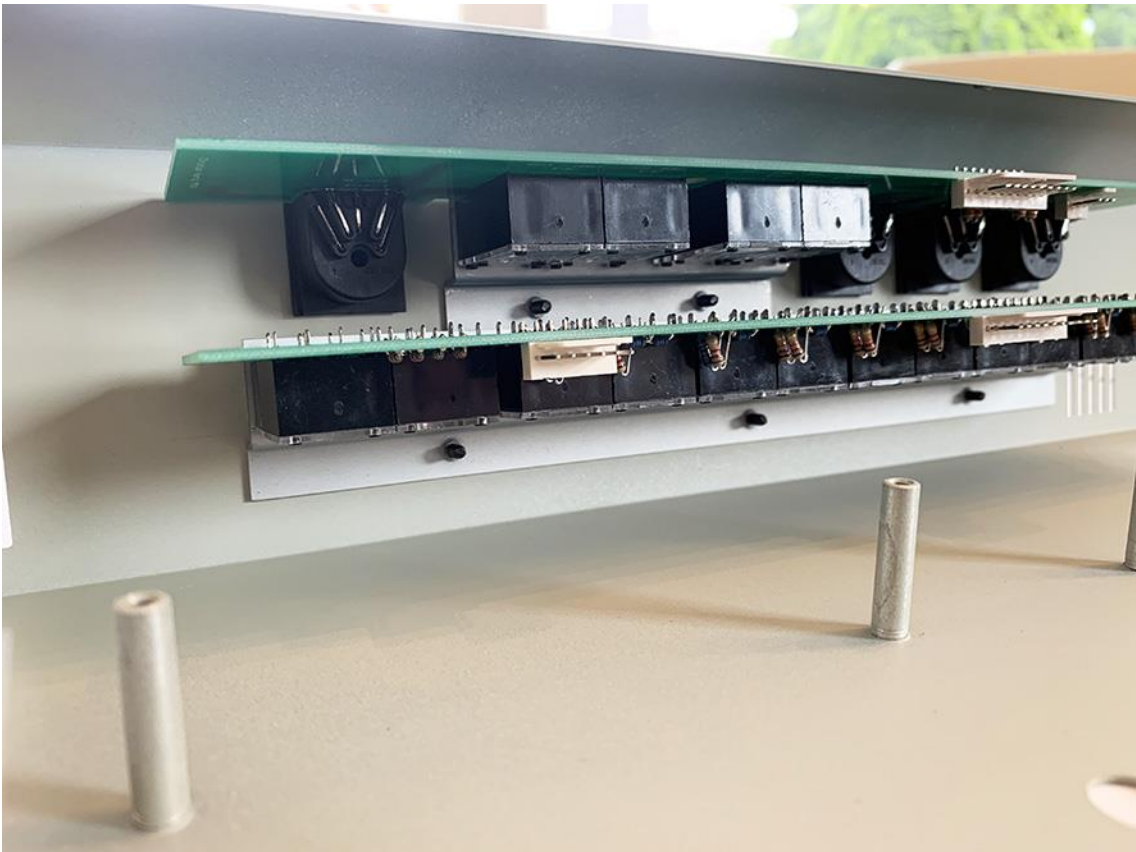
Please make sure that the Z-bracket is parallel to the PCB after screwing, otherwise the audio and MIDI sockets will sit crooked behind the case holes.



Assembling the audio board is basically the same process. Use three of the M12 nuts here.



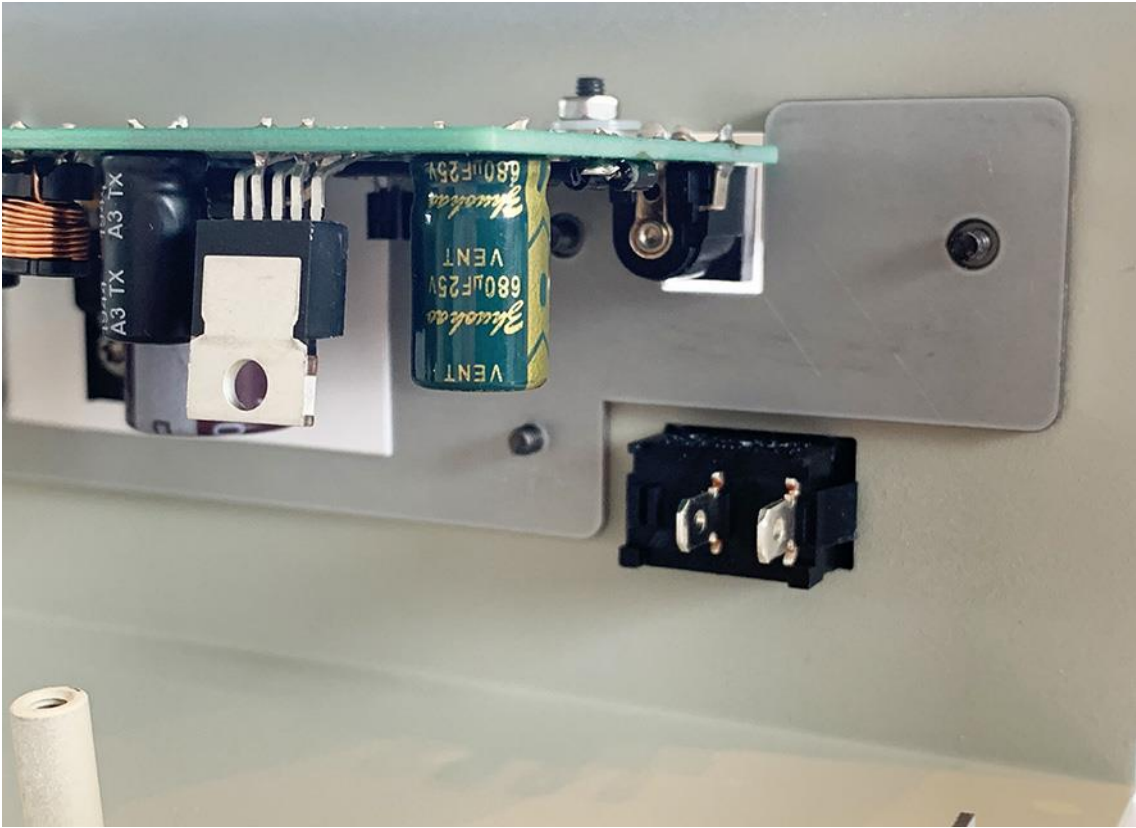
6x M3 screws with washers are required for mounting the audio and MIDI circuit board on the rear of the case.



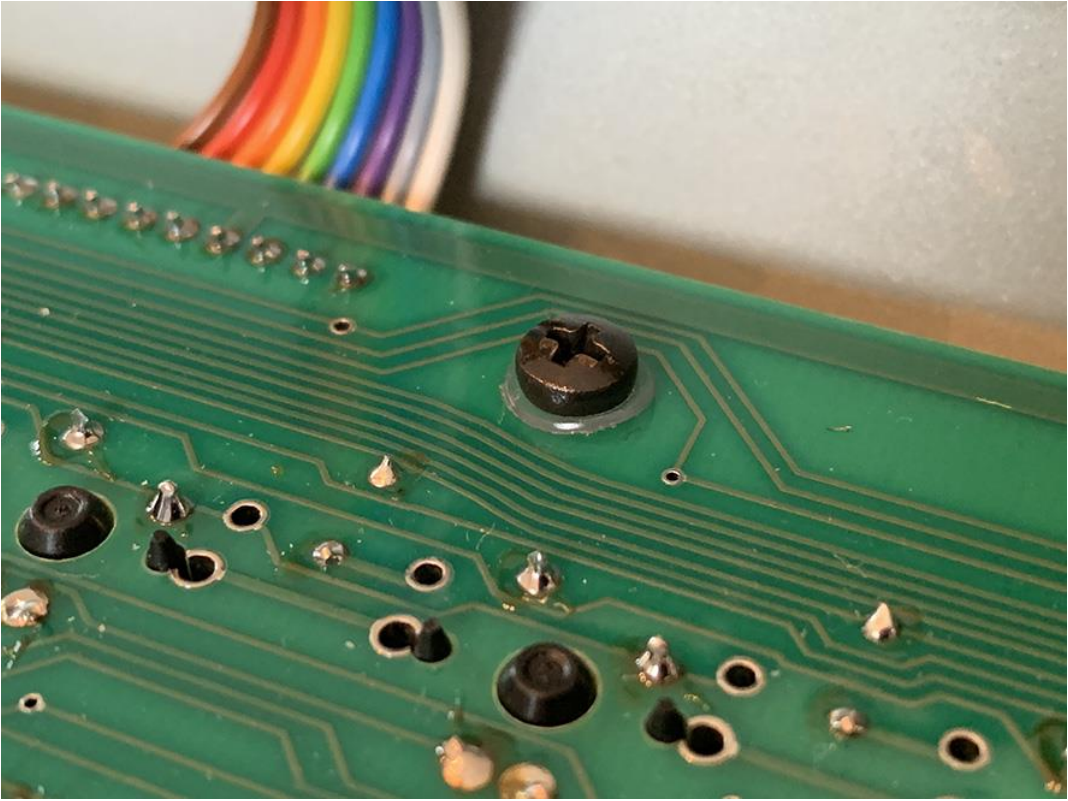
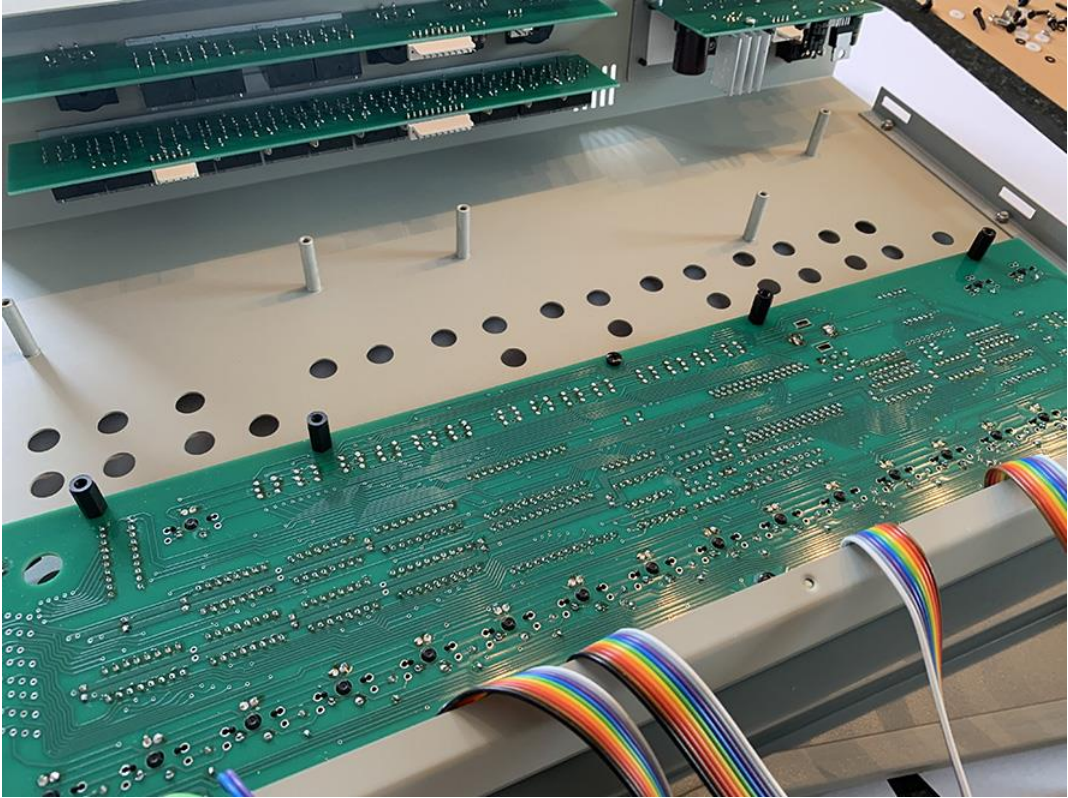
If everything went well, the audio and MIDI jacks sit nicely centered behind the holes.



The assembly of the Safety-PSU is simple: Insert two M3 screws with washers from behind through the holes in the rear of the housing and fasten the retaining plate. The large opening for the C14 AC socket is almost completely covered. If you want, you can also screw in two screws to the left and right of it, but this is only for the look.



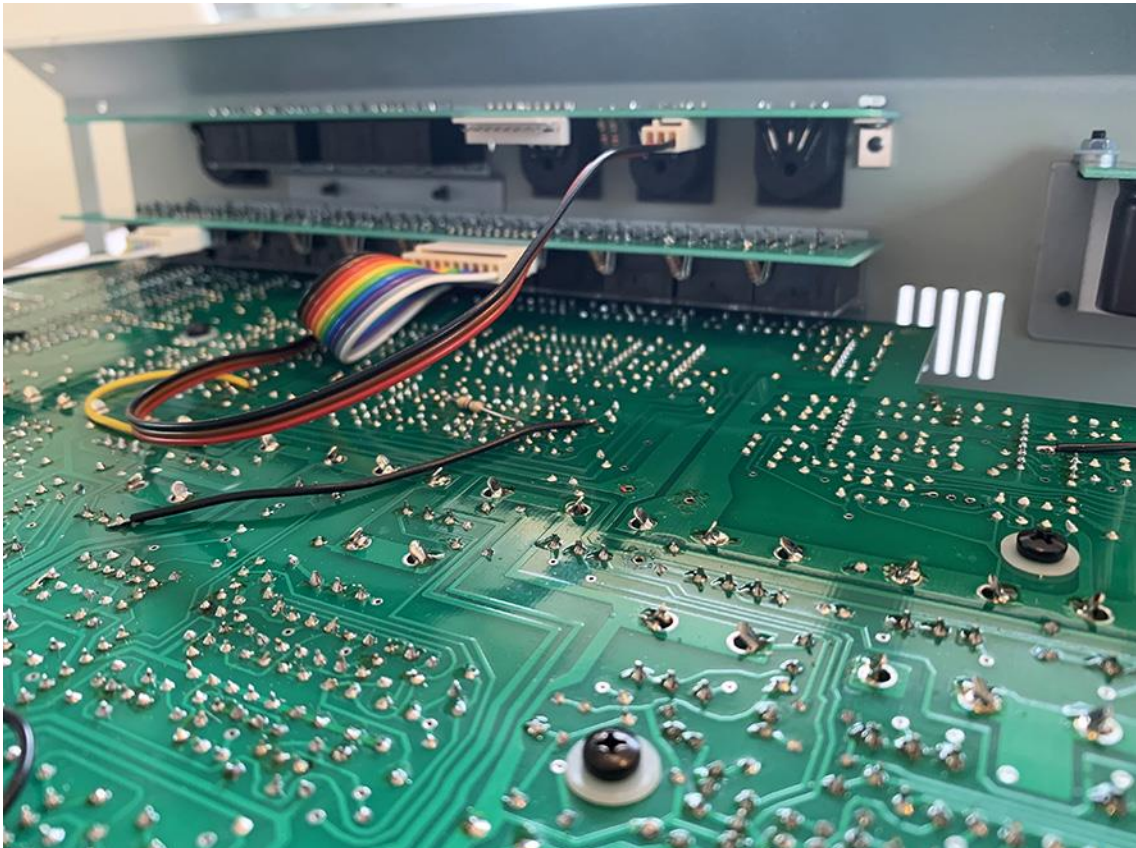
Now we come to the sequencer board. Carefully place the circuit board in the housing and screw it on. On the lower edge with 5x M3 screws and the thin plastic washers. On the upper edge one M3 screw in the middle and left and right with the 13mm nylon spacers. Before you tighten all screws, check the alignment of the LED buttons and step switches. Everything should be in the middle of the holes.



Connect the cables between the sequencer board, audio board, etc. and carefully place the audio board in the case. Screw the board with the M3 screws and the thick plastic washers. **I used my beta board for this guide, so don't be surprised how it looks!** Again, before tightening the screws, make sure that the shafts of the potentiometers are well aligned!

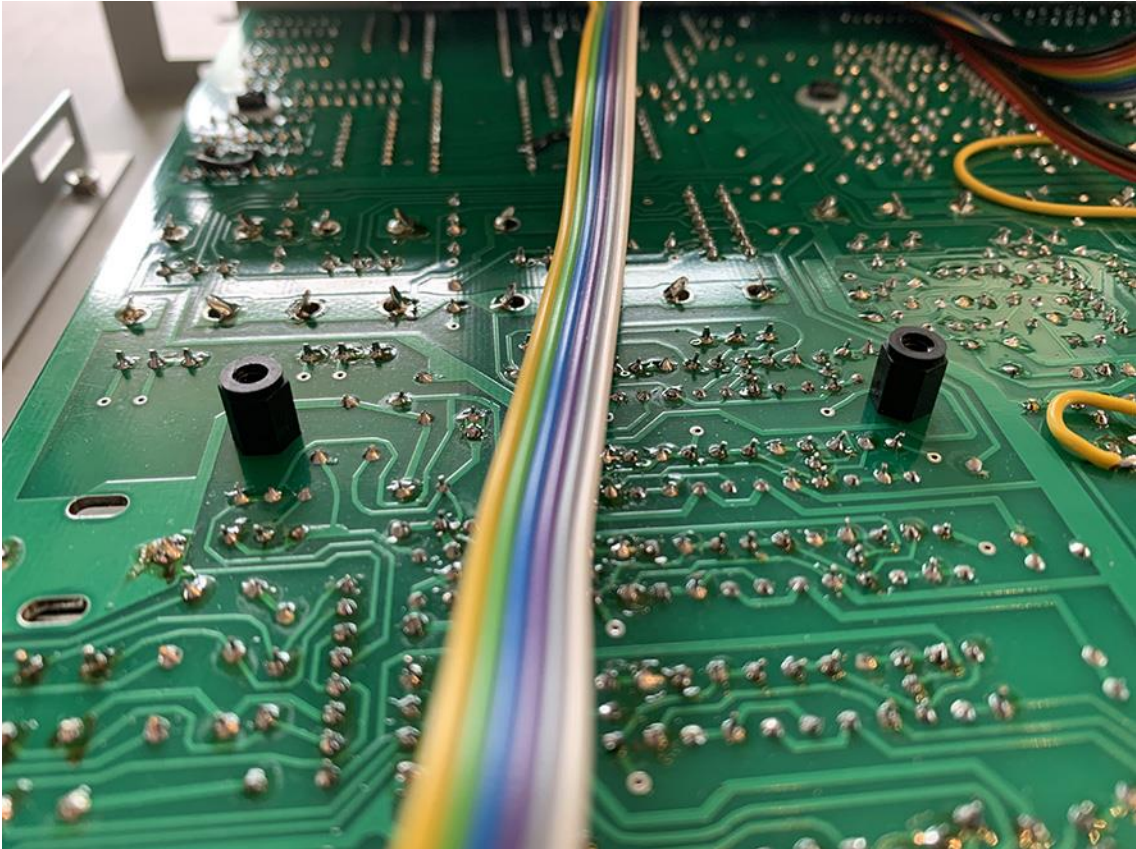
If you want, you can cut a piece of thin cardboard in the same size as the sequencer board. You can put this between the sequencer board and the audio board for isolation.

The original TR-909 has a piece of cardboard in between. It's tight between the two boards!

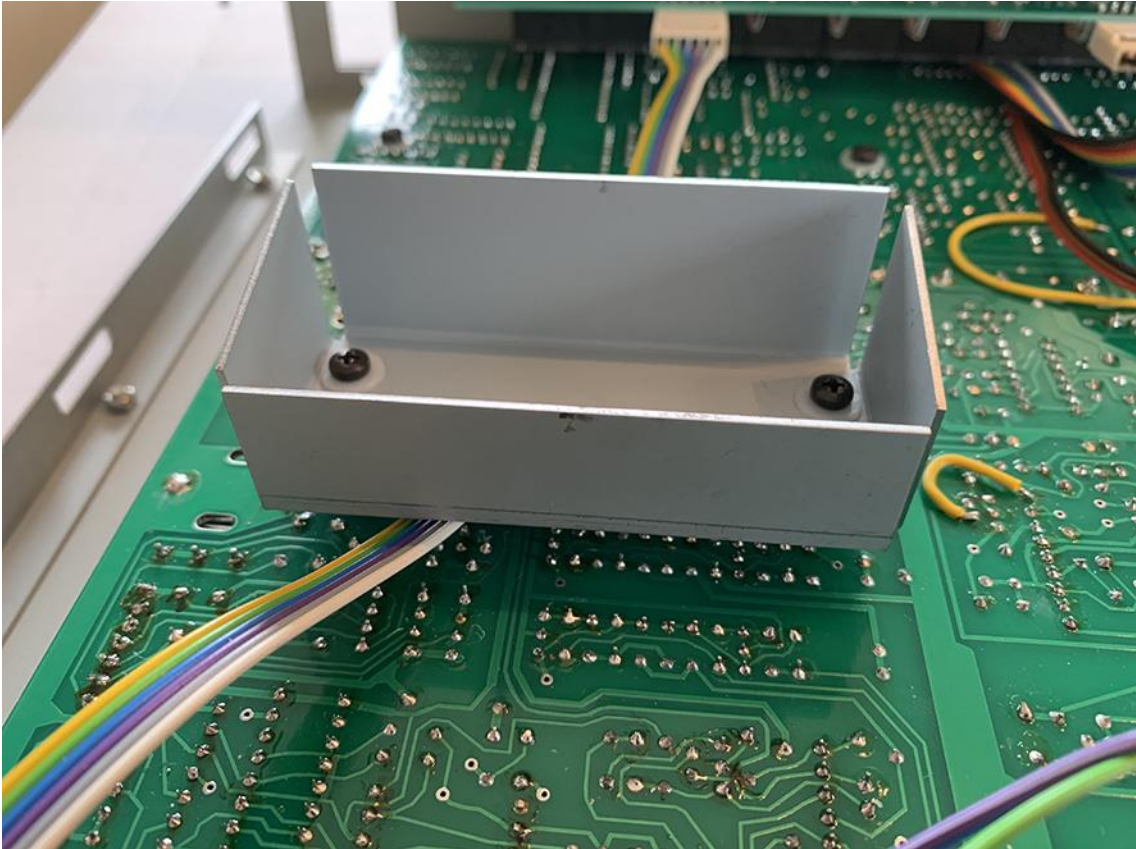




The two short nylon spacers are screwed in on the left side. These will hold the battery compartment.



The battery compartment is fastened with two M3 screws with thick plastic washers.



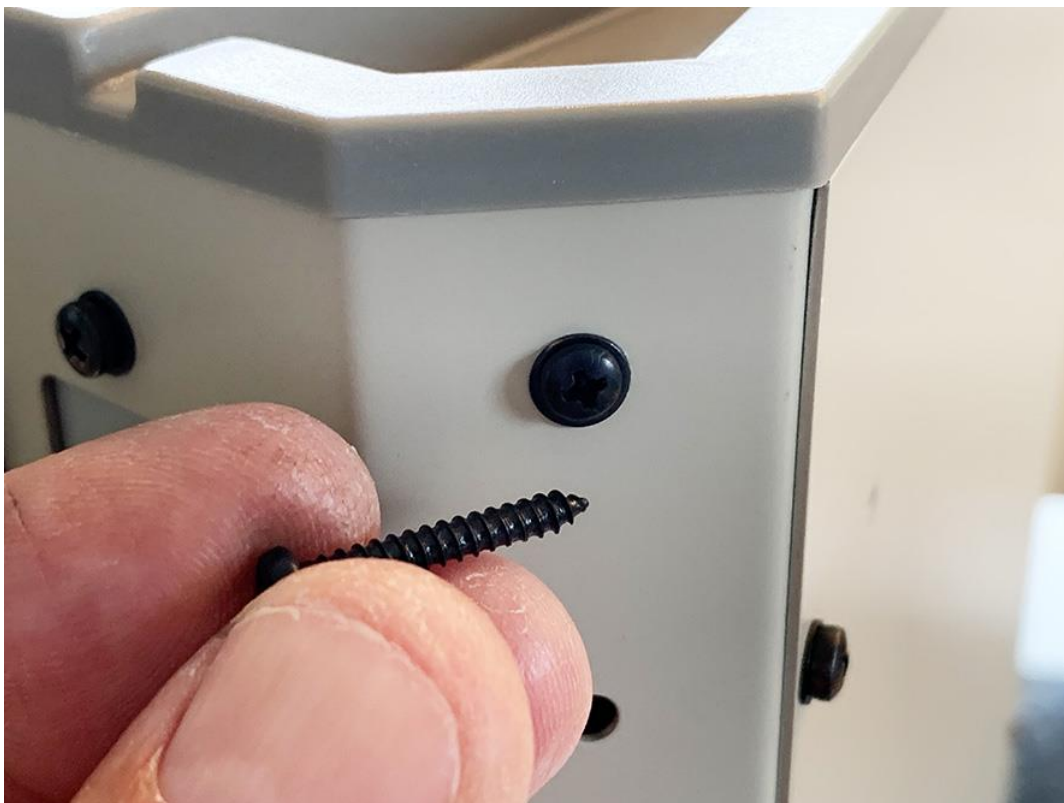
Now you can install the base plate with 6x M3 screws. Screw in only lightly at first, check the alignment of the plate and then tighten.



Then carefully press in the plastic side panels. If you can clearly hear it click, the side panels are seated correctly.



Screw the side parts with the wood screws.



Two screws are screwed in from the short slope and the other two from the base plate.



Now everything should be ready and you can attach the supplied adhesive feet, or other device feet with M3 screw connections, if you have any.

Now put on the potentiometer buttons and the button caps and your RE-909 is finished! **UNTZ UNTZ UNTZ!**

**Important notice:**

There has been a problem with the switch caps in mass production, which is affecting a major part of the switch caps with LED window and is related to differences in the height of the stems. This is a cosmetic issue which does not have any influence on the functionality. We are in contact with the manufacturer to solve the problem and as soon as we receive flawless parts we'll provide a free replacement set.

It is possible to adjust the height of the stem with a tool like a Dremel if you would like to try to fix this cosmetic flaw on your own, but it's a risky work since there is a chance that something gets damaged, so please be aware that manual rework is at own risk, if you break any we can supply free replacements for postage though.

Last but not least, as a tip we would like to point out that there is always the option of replacing the Safety PSU with a power supply with transformer. DinSync has a kit with a transformer and circuit board for this. It is basically the same power supply as in the TR-909 and it can also be used in the TR-909. All you need is the transformer PSU kit and a C14 AC socket with 40mm screw spacing.