AZ-Touch MKR
Rev B

construction manual

Rev.	Date	Description
A	2019-03-19	First Release
B	2021-09-16	Adaption to Version 02-xx

Tools:

a regulated soldering iron (25..40W) with small tip

a wet sponge to clean the tip

thin solder wire

Side cutting pliers

Needle nose pliers

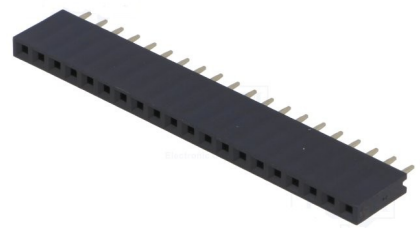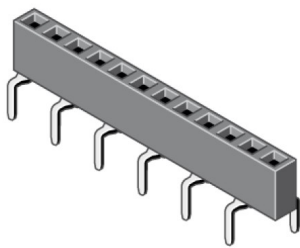Medium cross slot screwdriver

Optional multimeter

Part list:

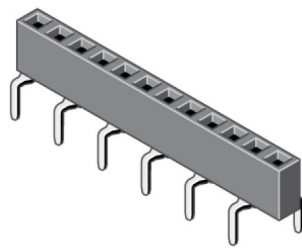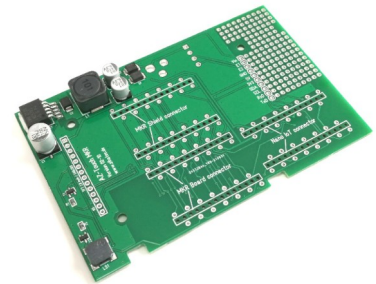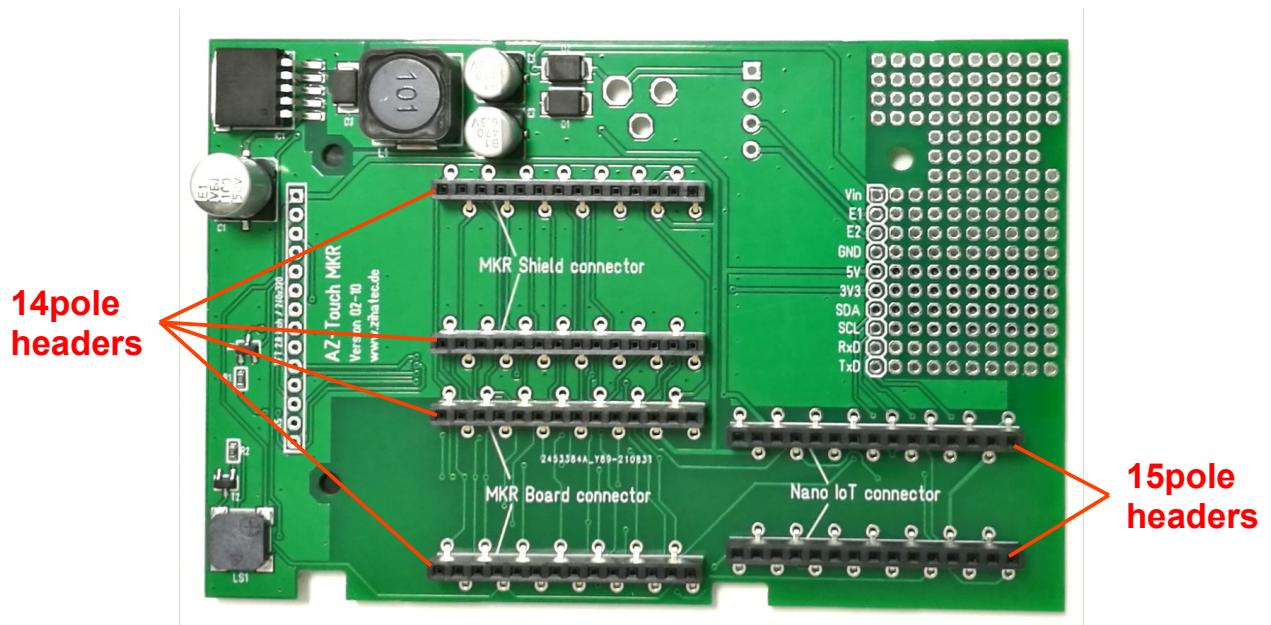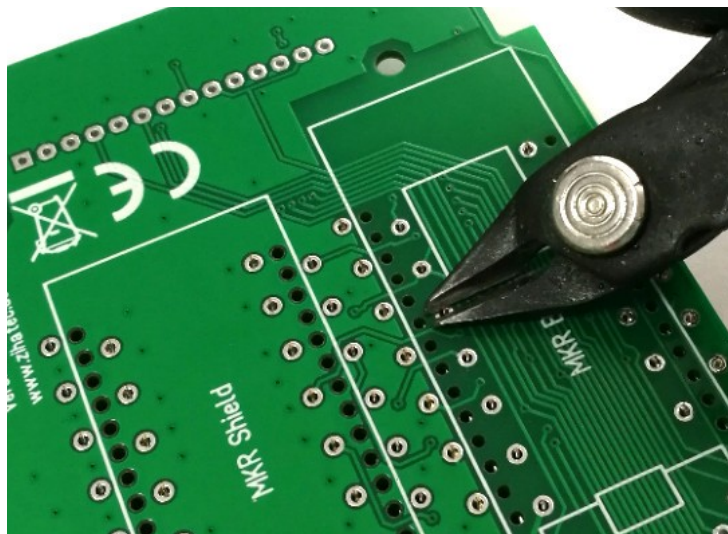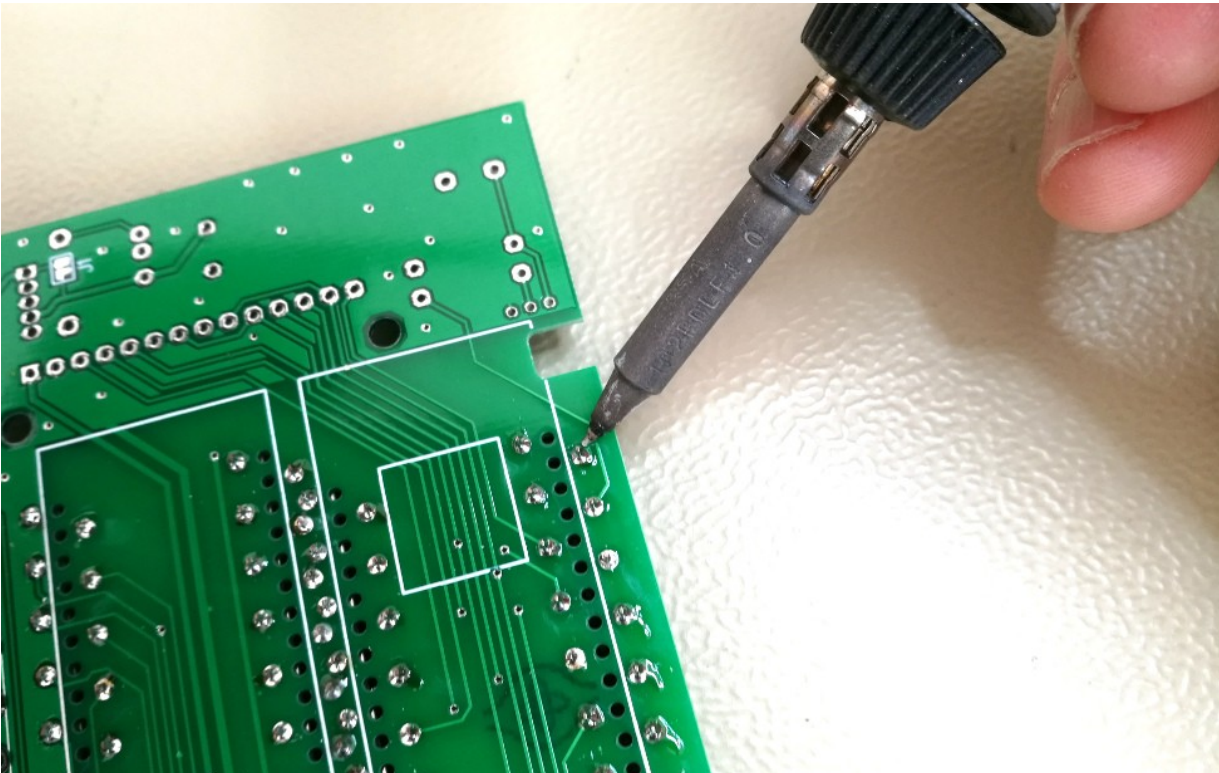|		
 2x 2pole terminal block (K2)	 1x 4pole terminal header (K2)	 1x 14pole female header (K5)
 4x 14pole centipede female header	 2x 15pole centipede female header	 1x Pre-assembled pcb
 7x Screw M3 4mm	 4x Spacer M3 11mm	

1.) Place and solder the centipede headers

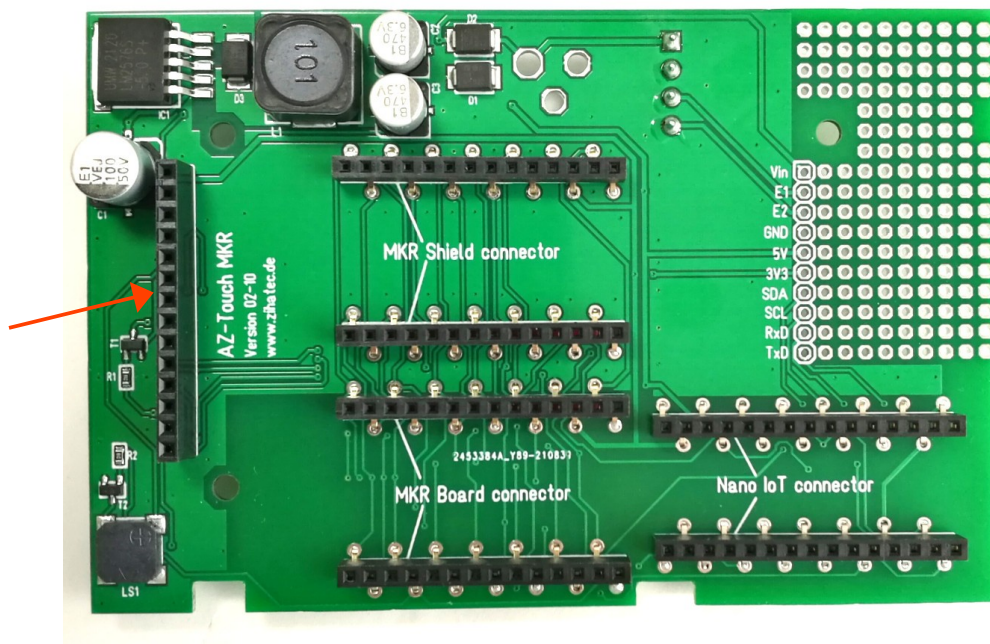**14pole headers**

15pole headers

It is recommended to shorten the pins on the back flat with a wire cutter before soldering the connectors:
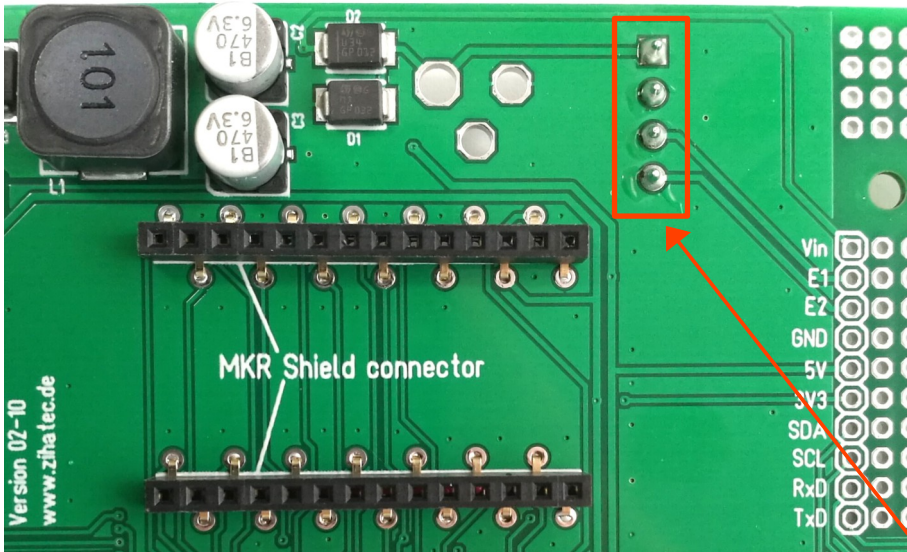
Now you can solder the centipede headers from the opposite side. Please take care that the headers placed tight as possible to the pcb:
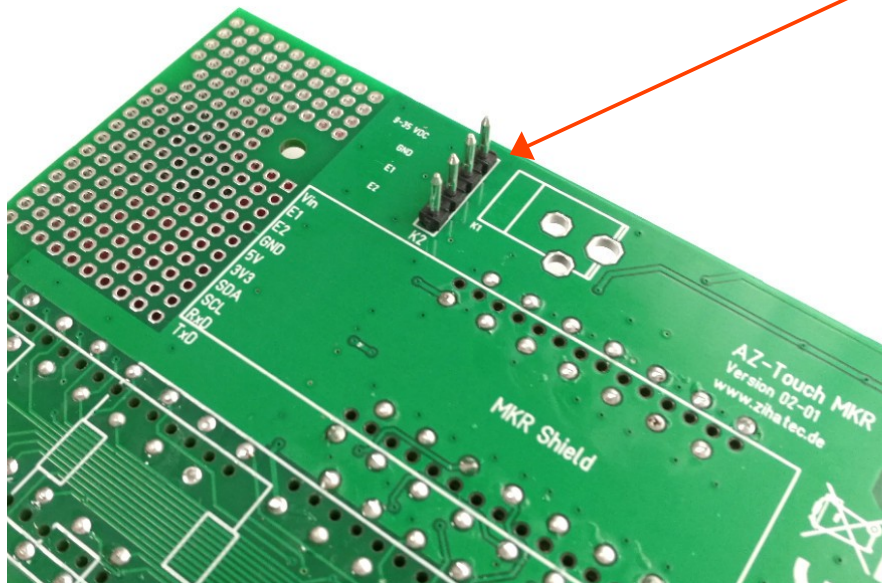

2.) Place and solder the header K5

3.) Place and solder the header K2

Attention!
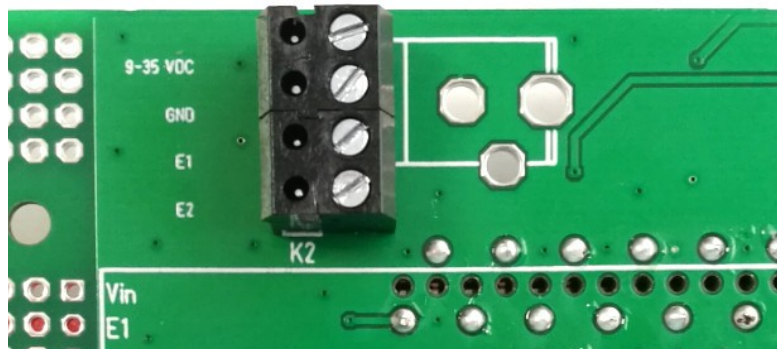**K2 is placed on the pcb backside**

4.) Prepare the terminal blocks

Find the 3.5mm terminal blocks, they're brown and come in 2-pin shapes.
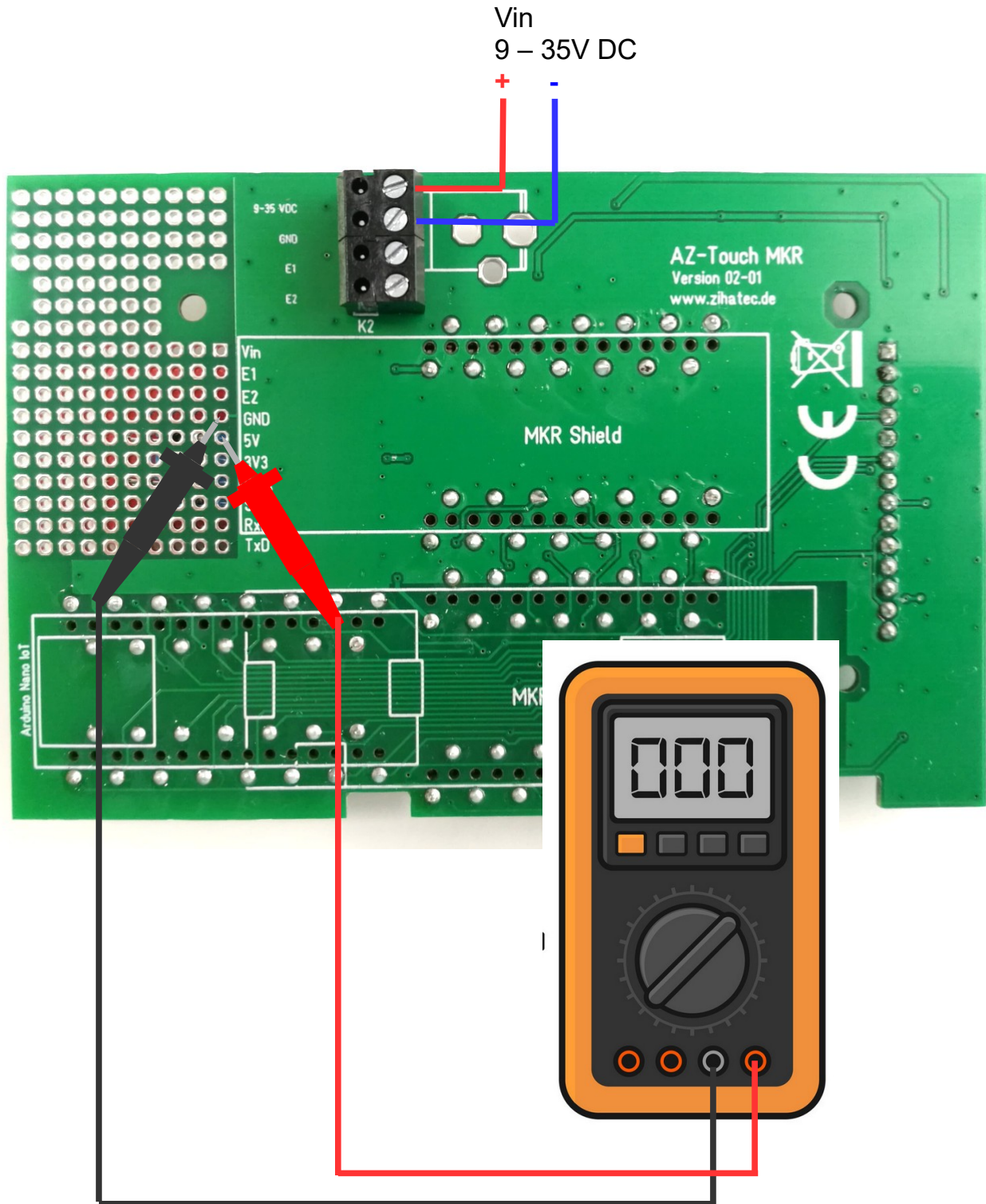*You'll need to slide two 2-pin blocks together:*

Now you can plug the terminal block onto the pin header:
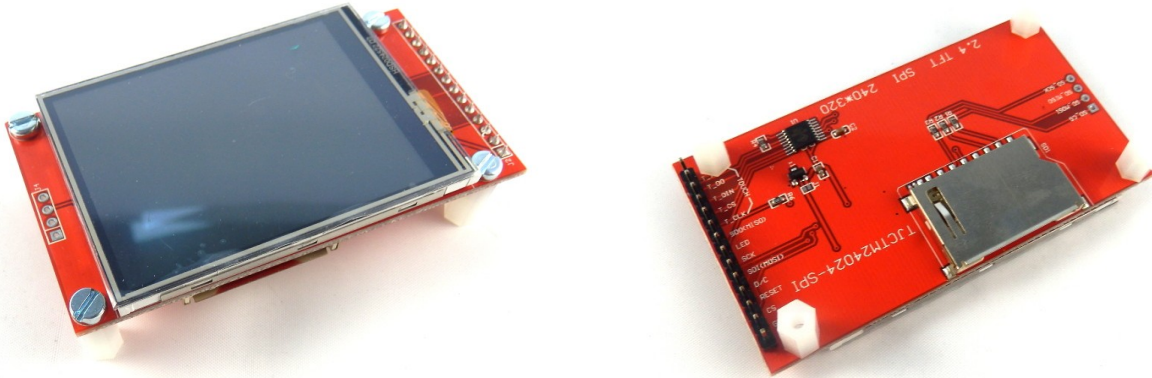
5.) Check the power supply

Its time to check the function of the power supply before the final assembly of the unit.
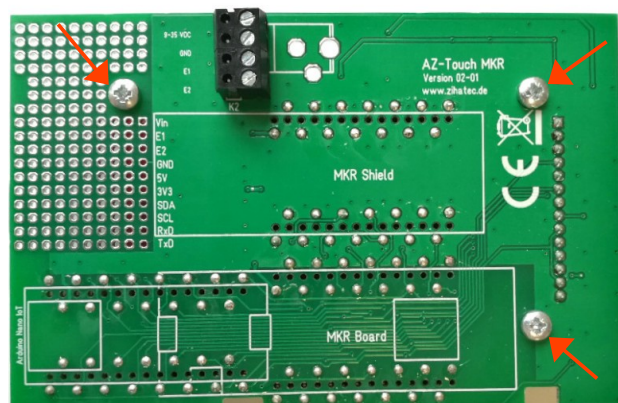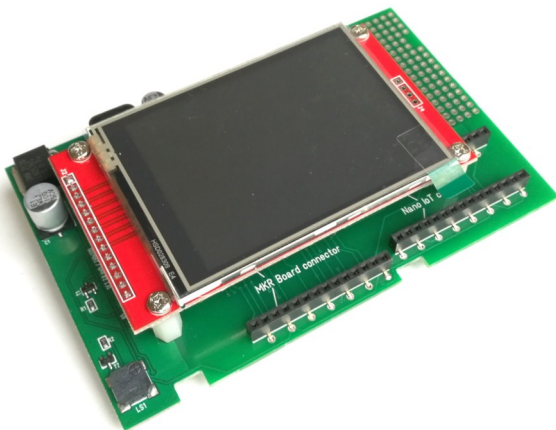

You have to measure a voltage between 4.9 – 5.1V!
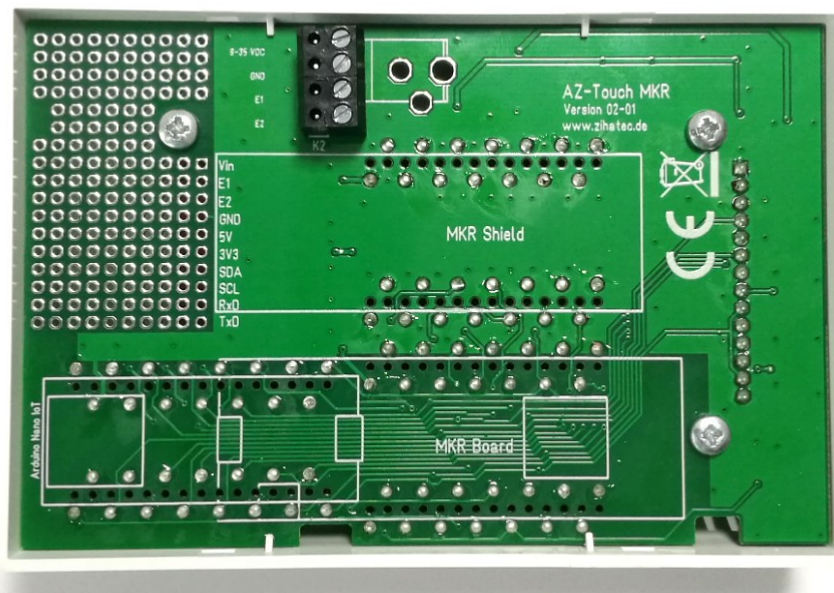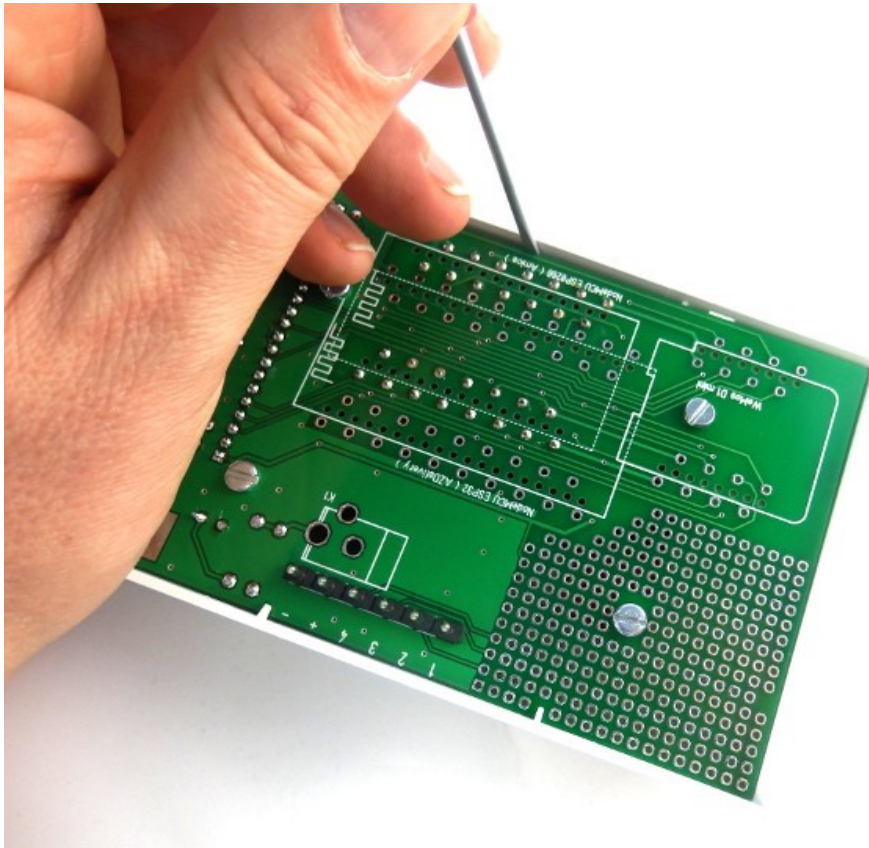
6.) Mounting of Spacers

7.) Mounting of Touchscreen

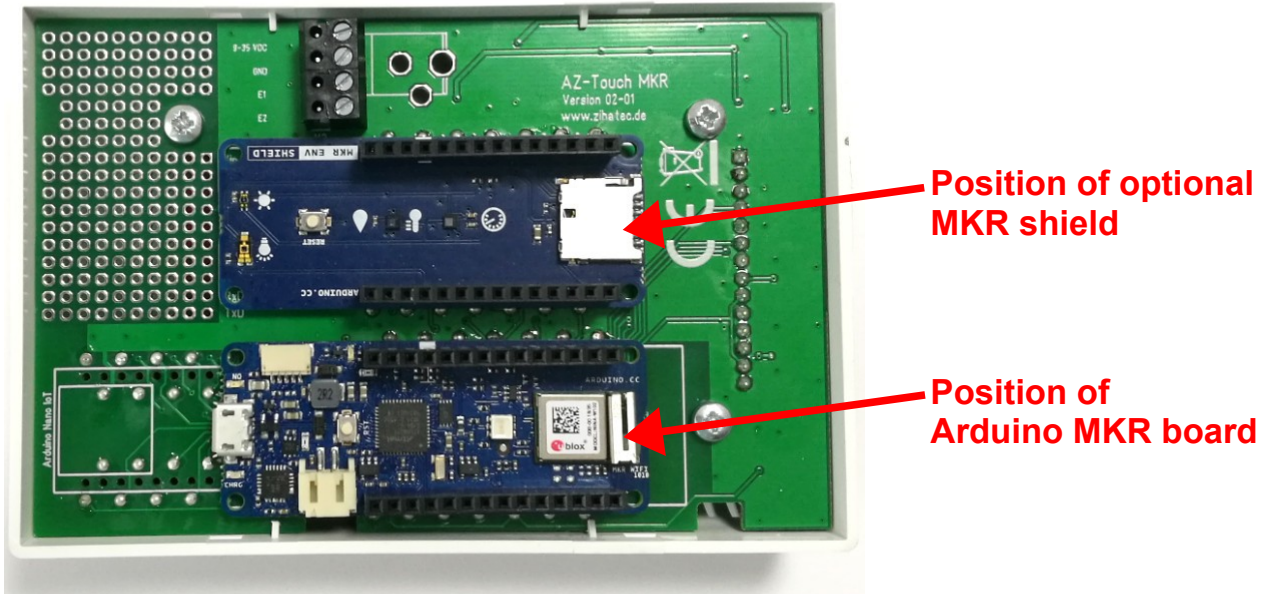*Plug the touchscreen into K5 and fix it with 3 M3 screws on the pcb backside.*
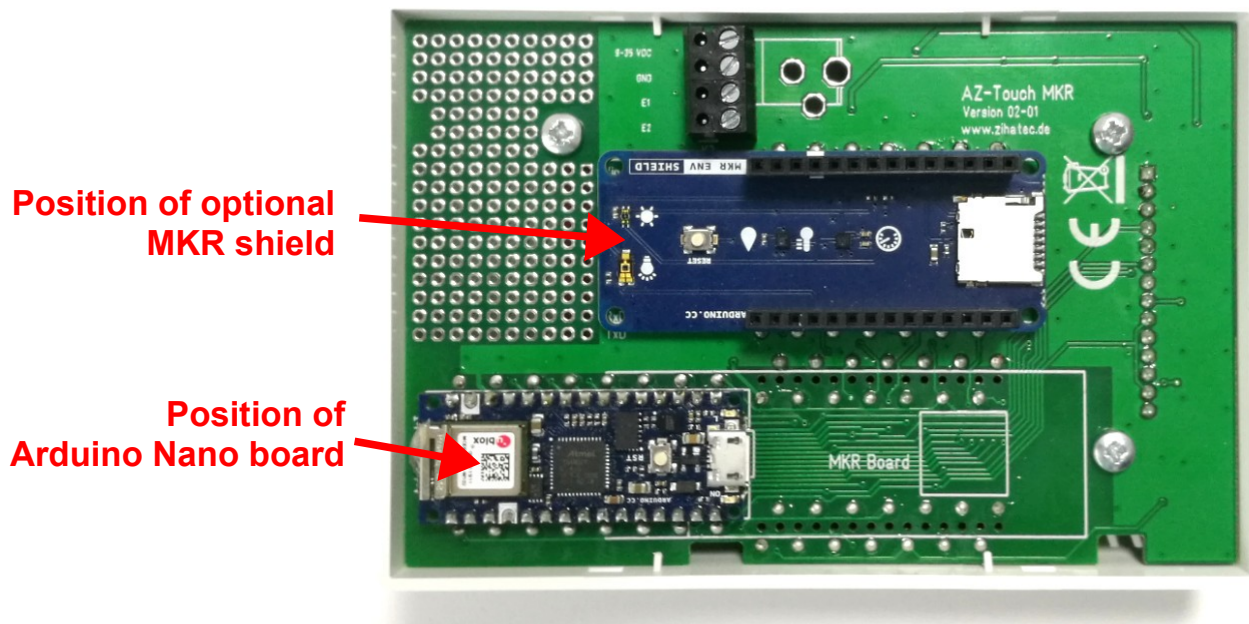
8.) Mounting of pcb in the top shell

Position of ventilation slots on this side!

9.) *Mounting of Arduino Boards and Shields*

Position of optional MKR shield

Position of Arduino MKR board

OR ….

Position of optional MKR shield

Position of Arduino Nano board

Finish