AZ-Touch Pi0 Rev A

construction manual for pcb Version 01-01

Rev.	Date	Description
Α	2020-04-12	First Release

Tools:

agregulated soldering iron (25..40W) with small tip



a wet sponge to clean the tip



thin solder wire



Side cutting pliers



Construction manual AZ-Touch Pi0 Rev A

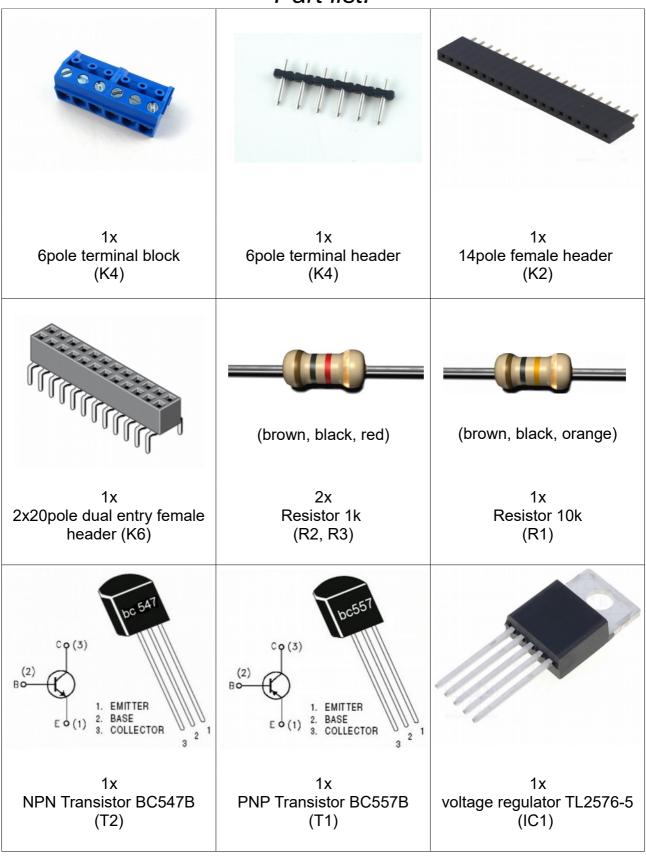
Needle nose pliers



Medium cross slot screwdriver

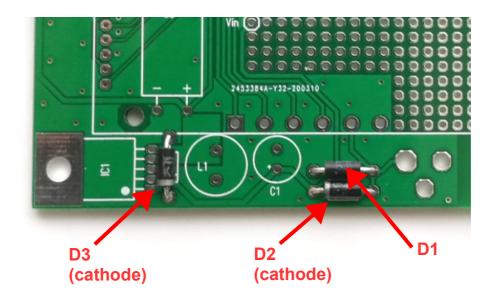


Part list:



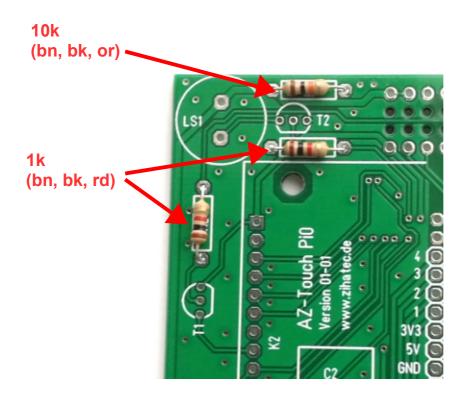


1.) Place and solder diodes D1, D2 and D3



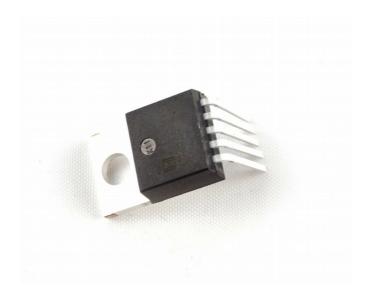
Please Note: D1 has no polarity!

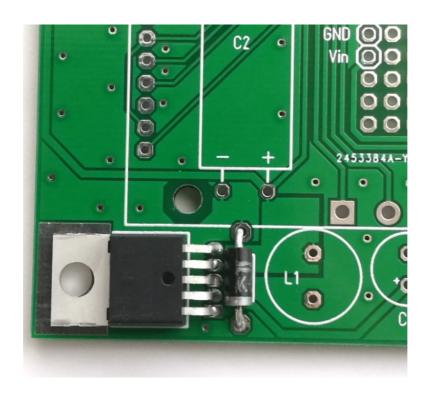
2.) Place and solder the resistors R1, R2 and R3



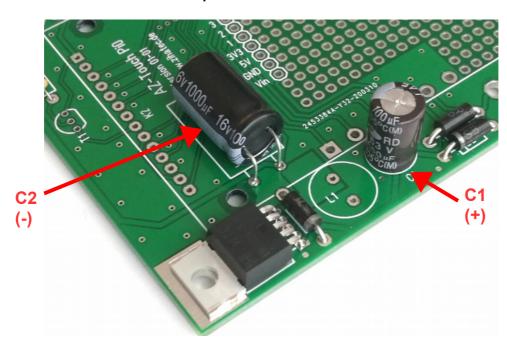
3.) Preparation and assembly of the voltage regulator IC1

Bend the straight pins of the voltage regulator IC1 2mm beside the regulator in a 90 degree angle first:

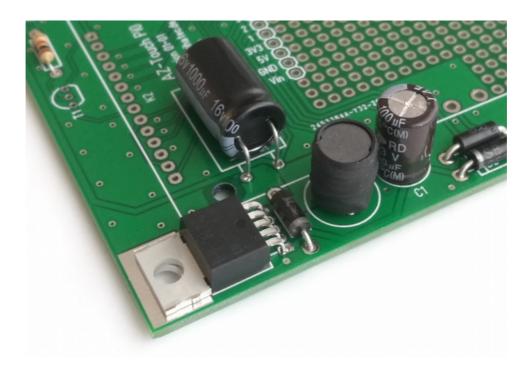




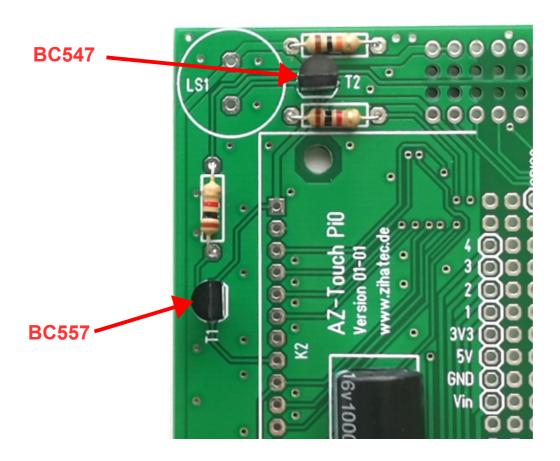
4.) Place and solder the capacitors C1 and C2



5.) Place and solder the inductor L1



6.) Place and solder the transistors T1 and T2



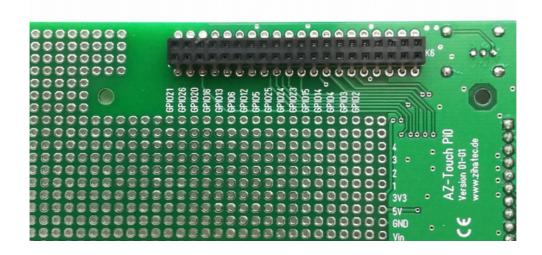
7.) Place and solder the piezo beeper LS1



8.) Place and solder the female header K2

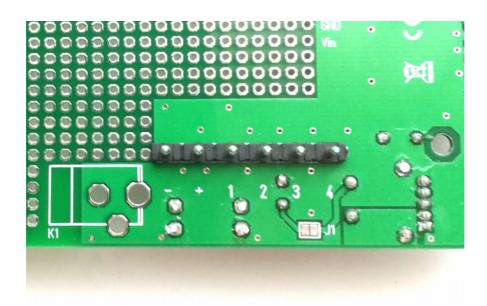


9.) Place and solder the female header K6



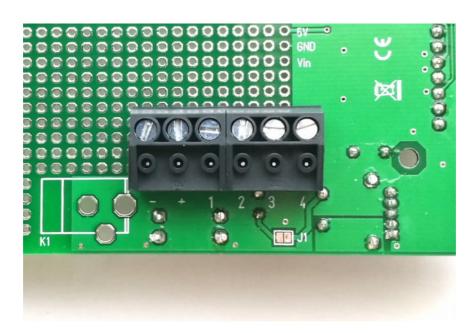
Attention – place this part on the bottom side of pcb!

10.) Place and solder the terminal header K4



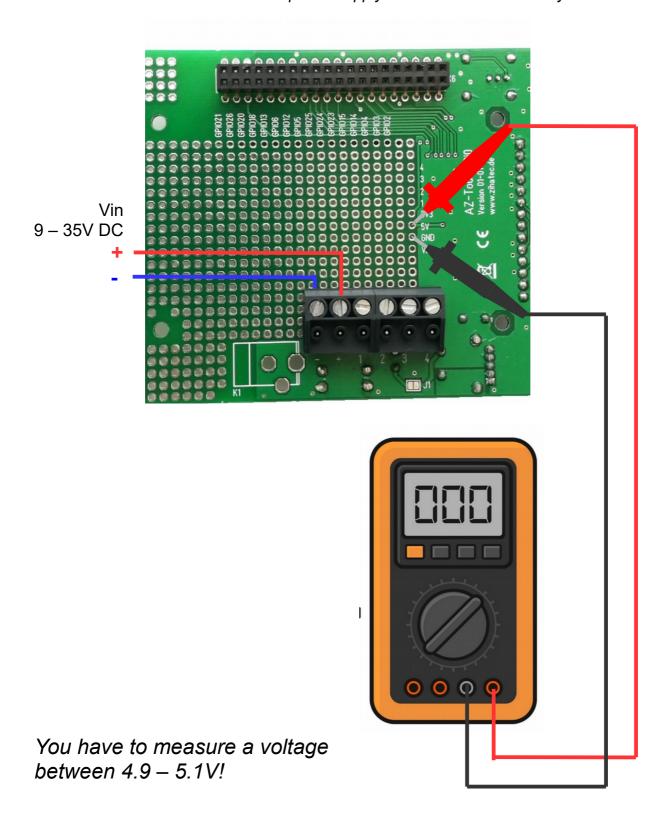
Attention – place this part on the bottom side of pcb!

11.) Assemble the terminal K4

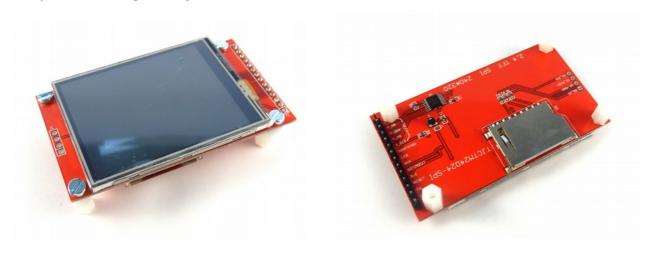


12.) Check the power supply

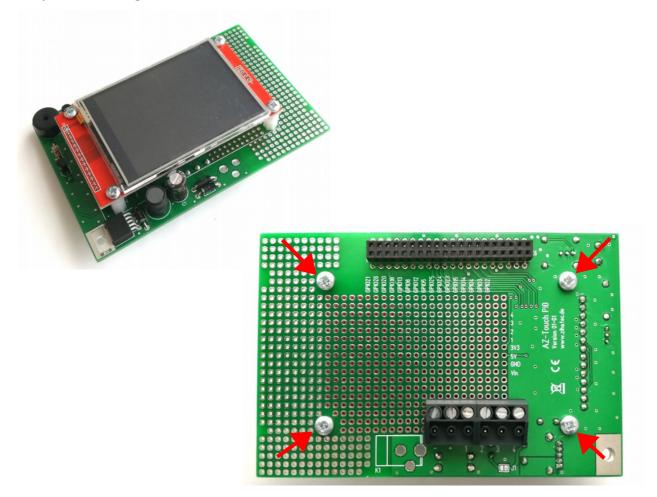
It's time to check the function of the power supply before the final assembly of the unit.



13.) Mounting of Spacers

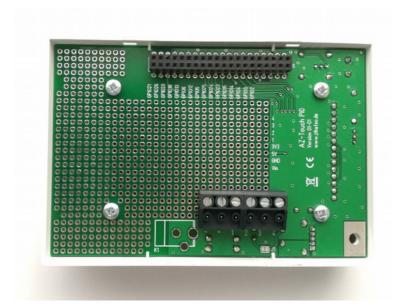


14.) Mounting of Touchscreen



Plug the touchscreen into K2 and fix it with 4 M3 screws on the pcb backside.

15.) Mounting of pcb in the top shell



Position of ventilation slots on this side!

16.) Mounting of PiZero



