

Ants Assembly Instructions

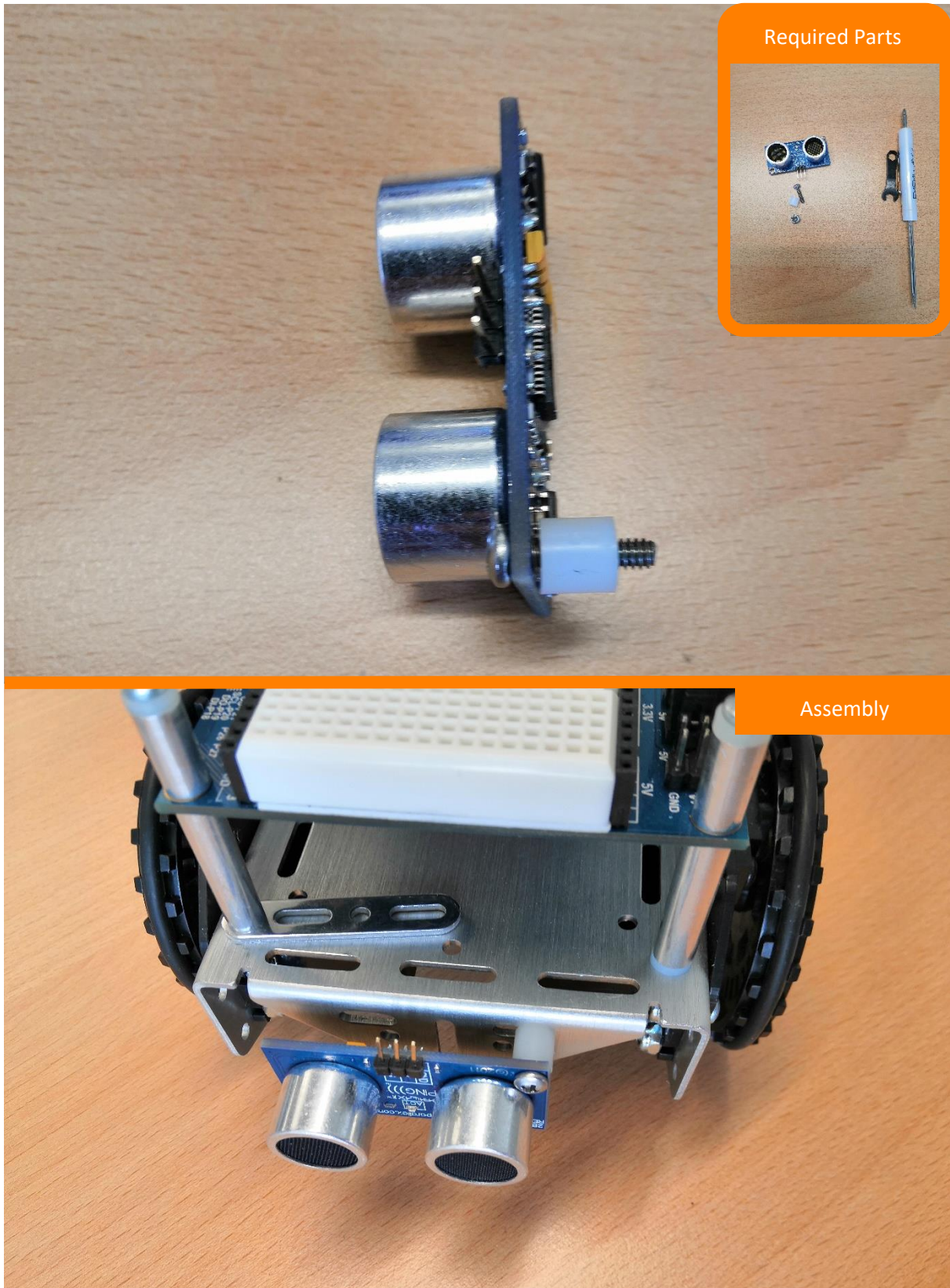
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Bot in default state (incl. Pull-Up Resistor)

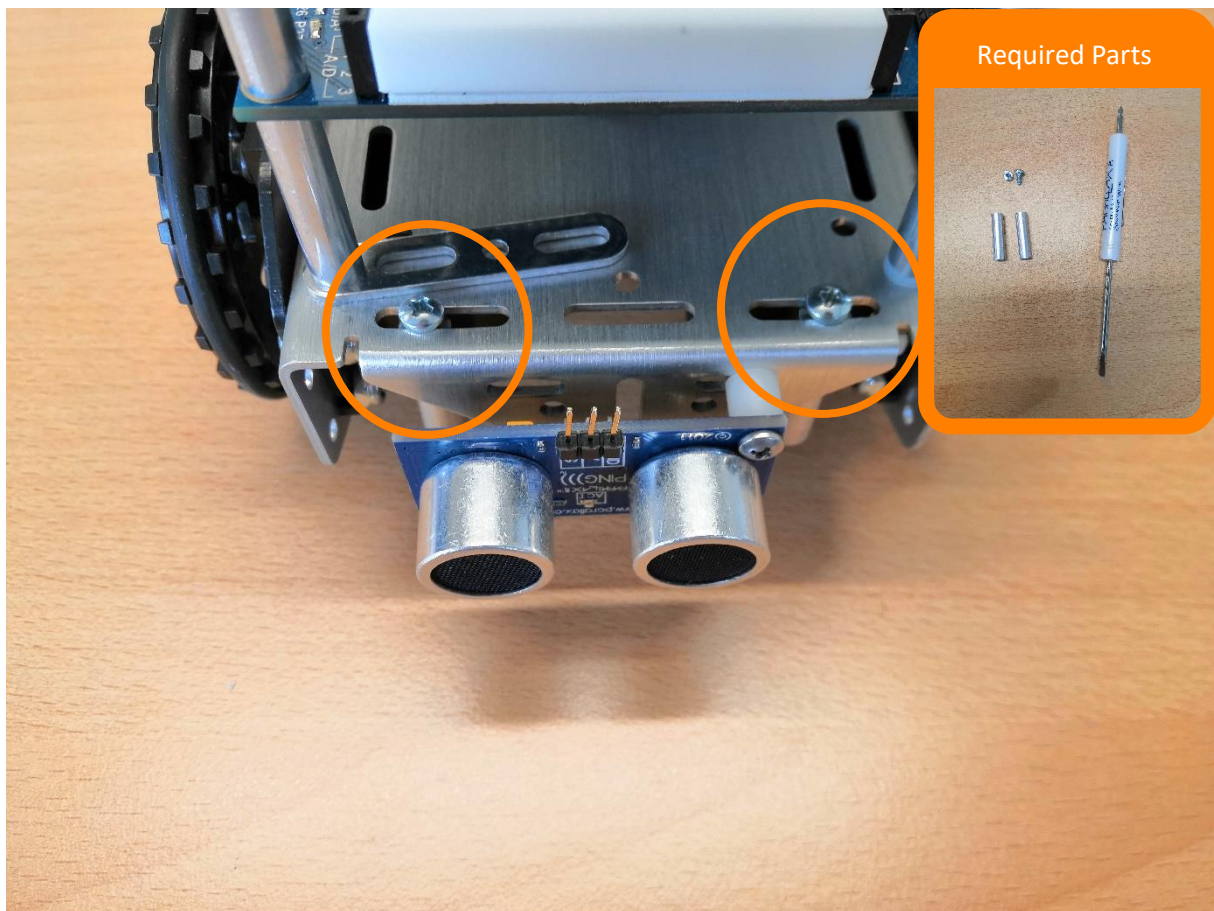


1. Preparation of the Ping-Sensor + Assembly



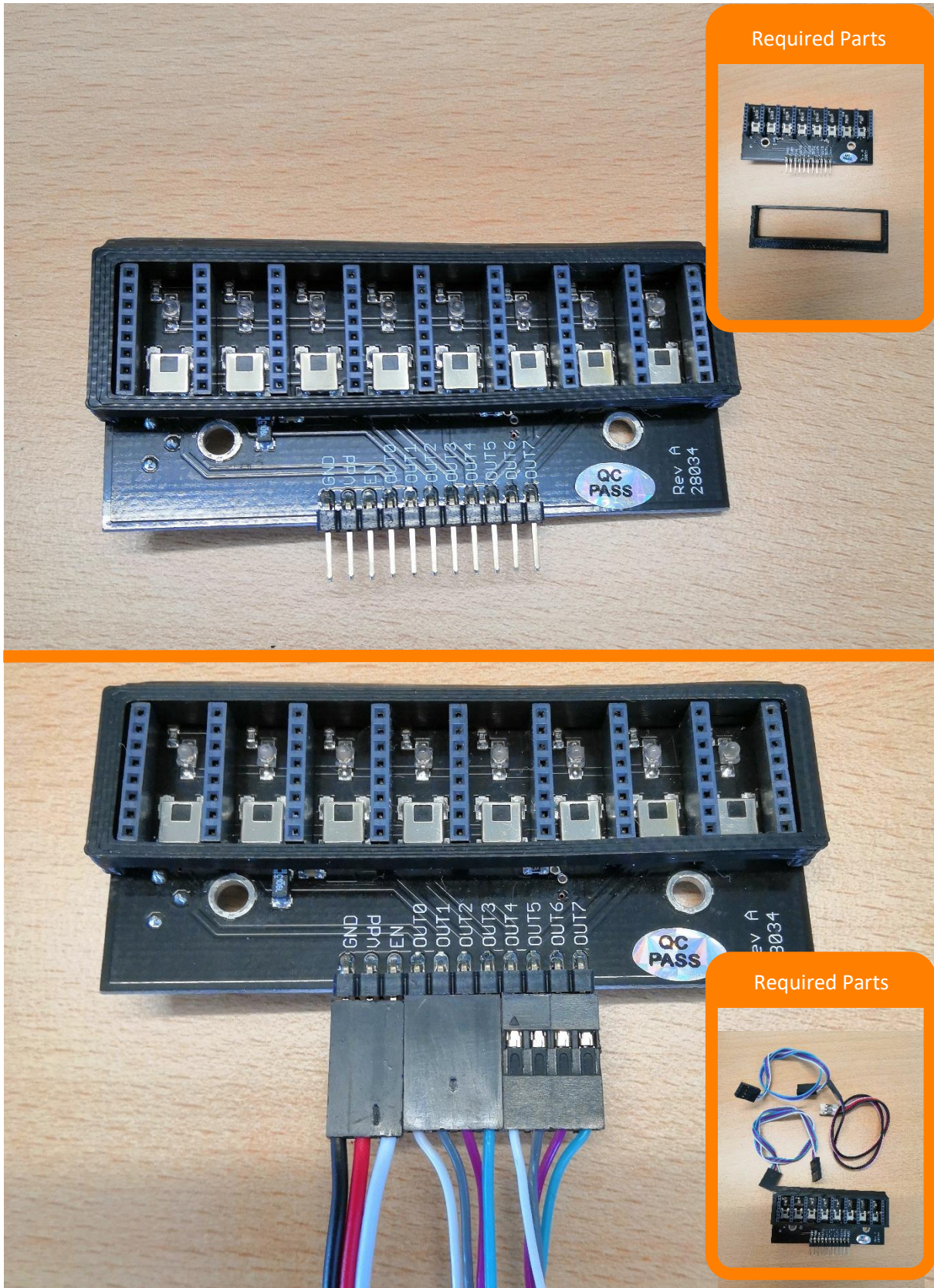
2. Bracket for Line-Follower

Don't fully tighten screws yet!



3. Preparation of the Line Follower

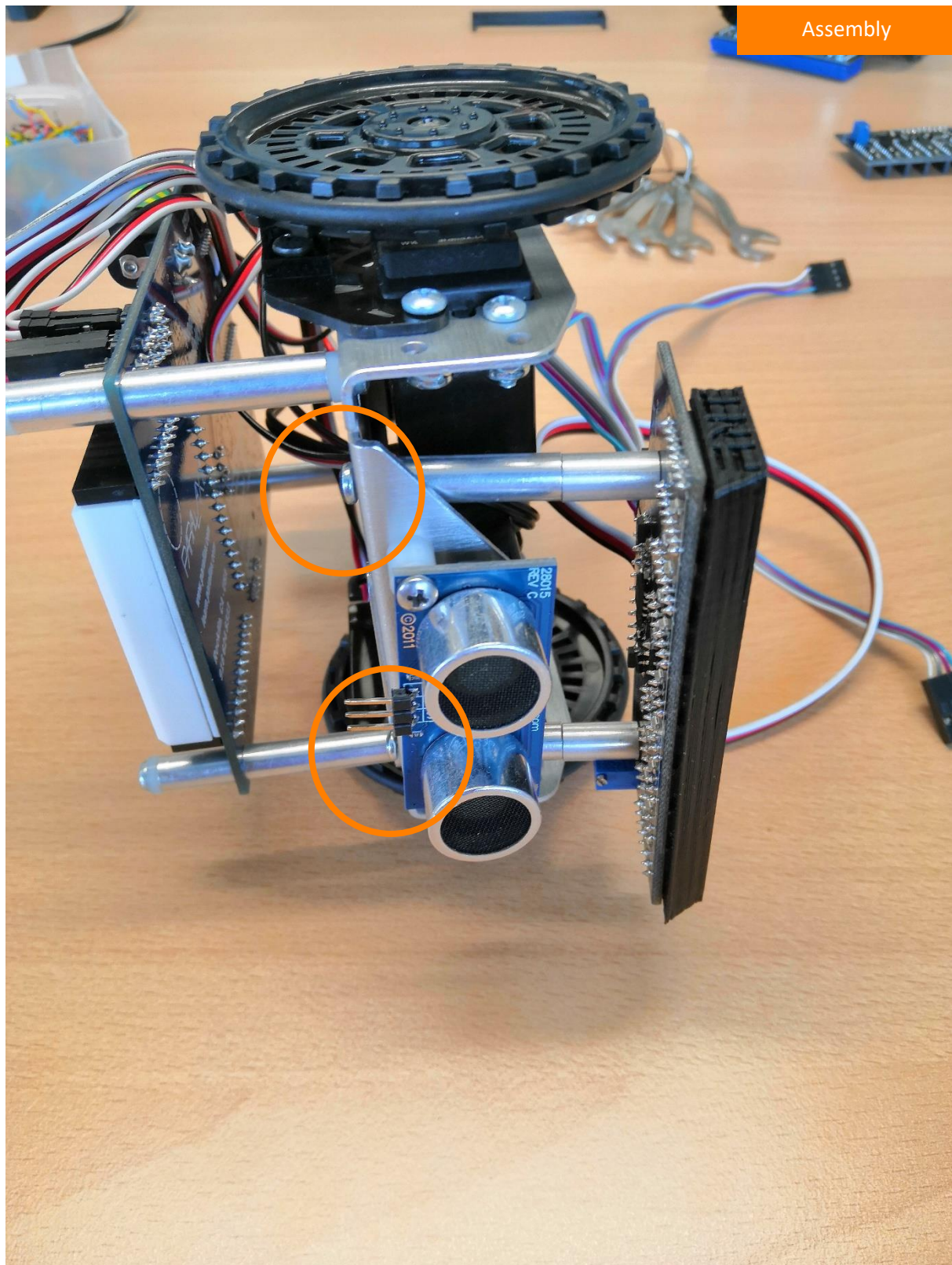
STL-file for 3D-printing the shield can be found in the *antshield*-directory



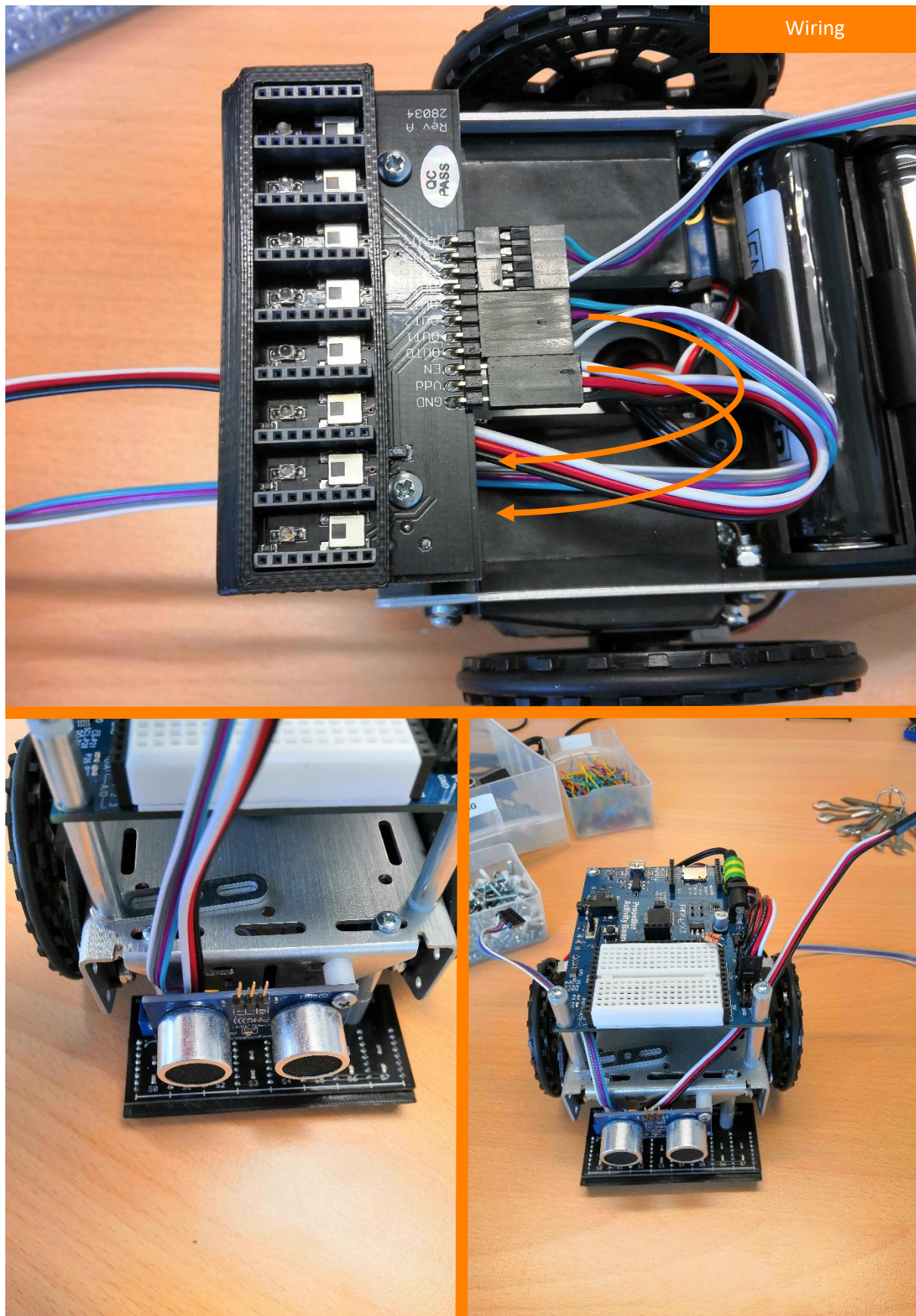
4. Assembly of the Line Follower



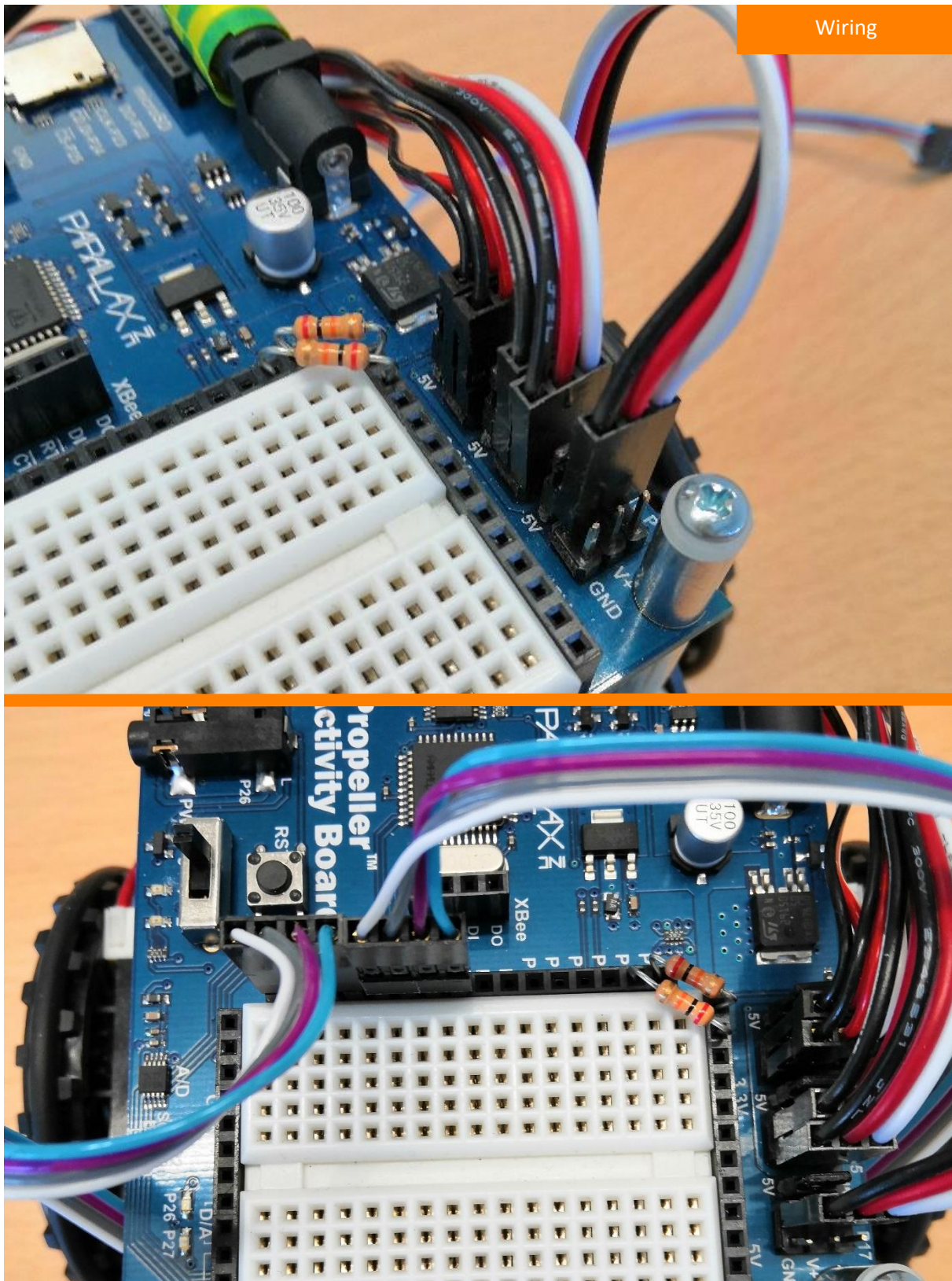
After the assembly the highlighted screws from step 2 can be fully tightened.



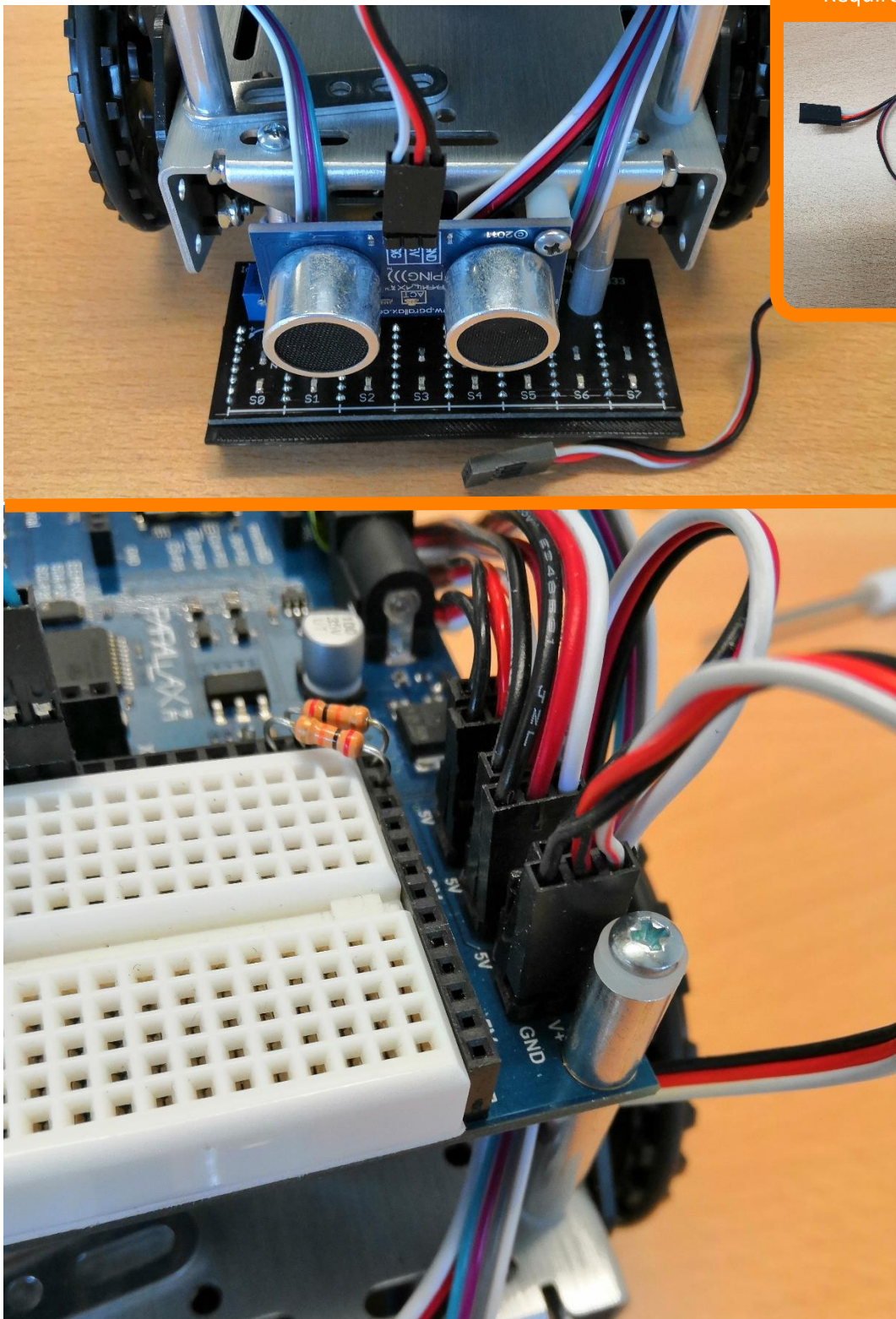
5. Wiring of the Line Follower



1. Connect powercable with 3pin wire to 5V delivery (Jumper has to be set to 5V)
2. Connect datacable to ports P0-P7 (S0 of the Line Followers into P0)



6. Wiring of the Ultrasonic Distance Sensor



Required Parts



7. Connection of the WiFi-Modul (ESP-8266)

1. WiFi-Module gets plugged on
2. Connect DI to P8 and DO to P9
3. Change the settings of the WiFi-Moduls to AP-Mode with the name & password of the WiFi-Network in the web-interface

