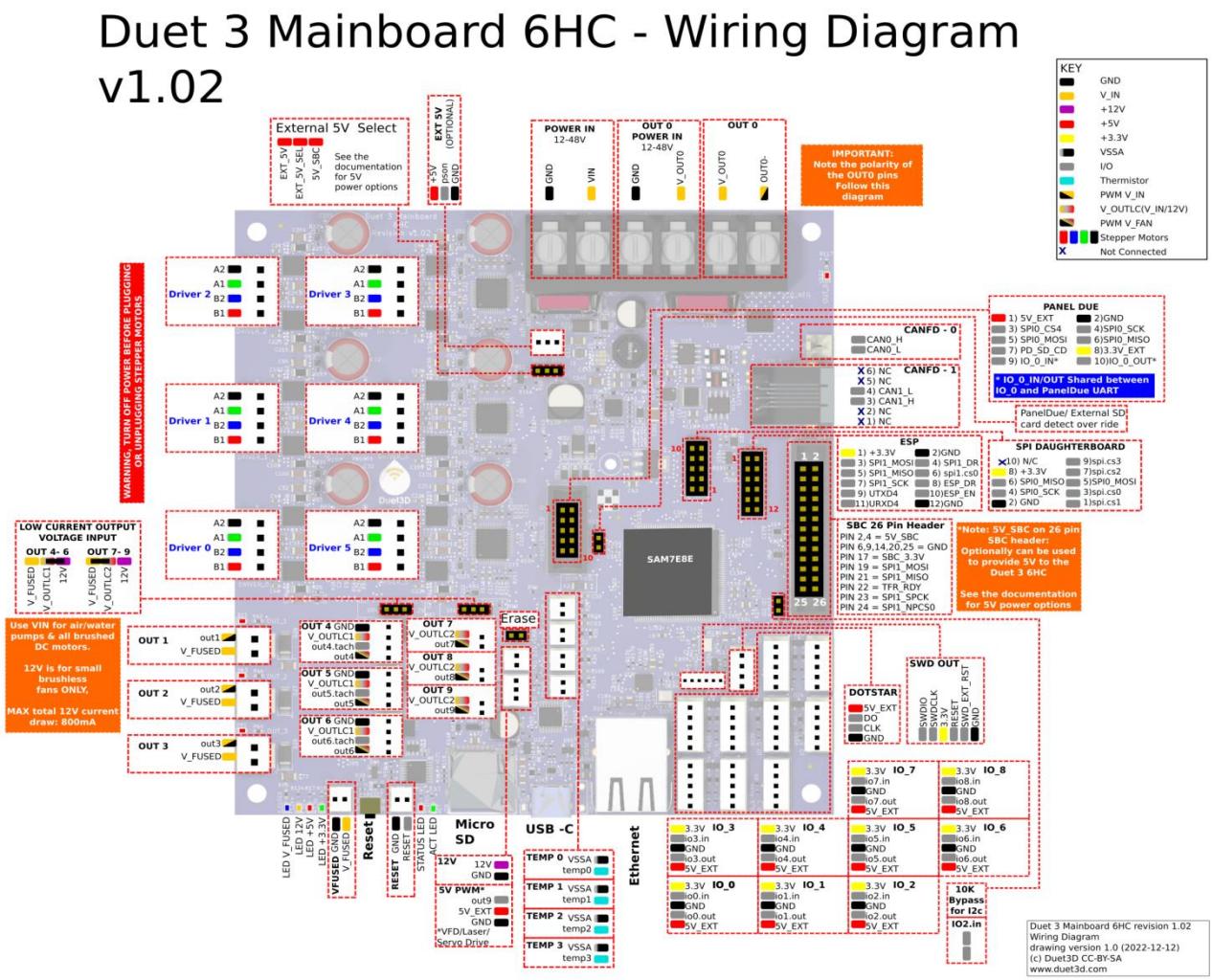
Wiring diagram Voron Trident 250mm

5 axis



POWER IN	*two wires (GND)- (VIN)+*	***Power supply 24V***
OUT 0 POWER IN	*two wires (GND)- (V_OUT0)+*	***Power supply 24V***
OUT 0	*two wires (V_OUT0) + (OUT0)-*	***Rotary bed Aluminium heat bed***

Driver 0	*four wires A2+A1+B2+B1*	***Stepper motor X axis***
Driver 1	*four wires A2+A1+B2+B1*	***Stepper motor Y axis***
Driver 2	*four wires A2+A1+B2+B1*	***Stepper motor Z-axis***
Driver 3	*four wires A2+A1+B2+B1*	***Stepper motor extruder E***
Driver 4	*four wires A2+A1+B2+B1*	***Stepper motor A axis***
Driver 5	*four wires A2+A1+B2+B1*	***Stepper motor C axis***

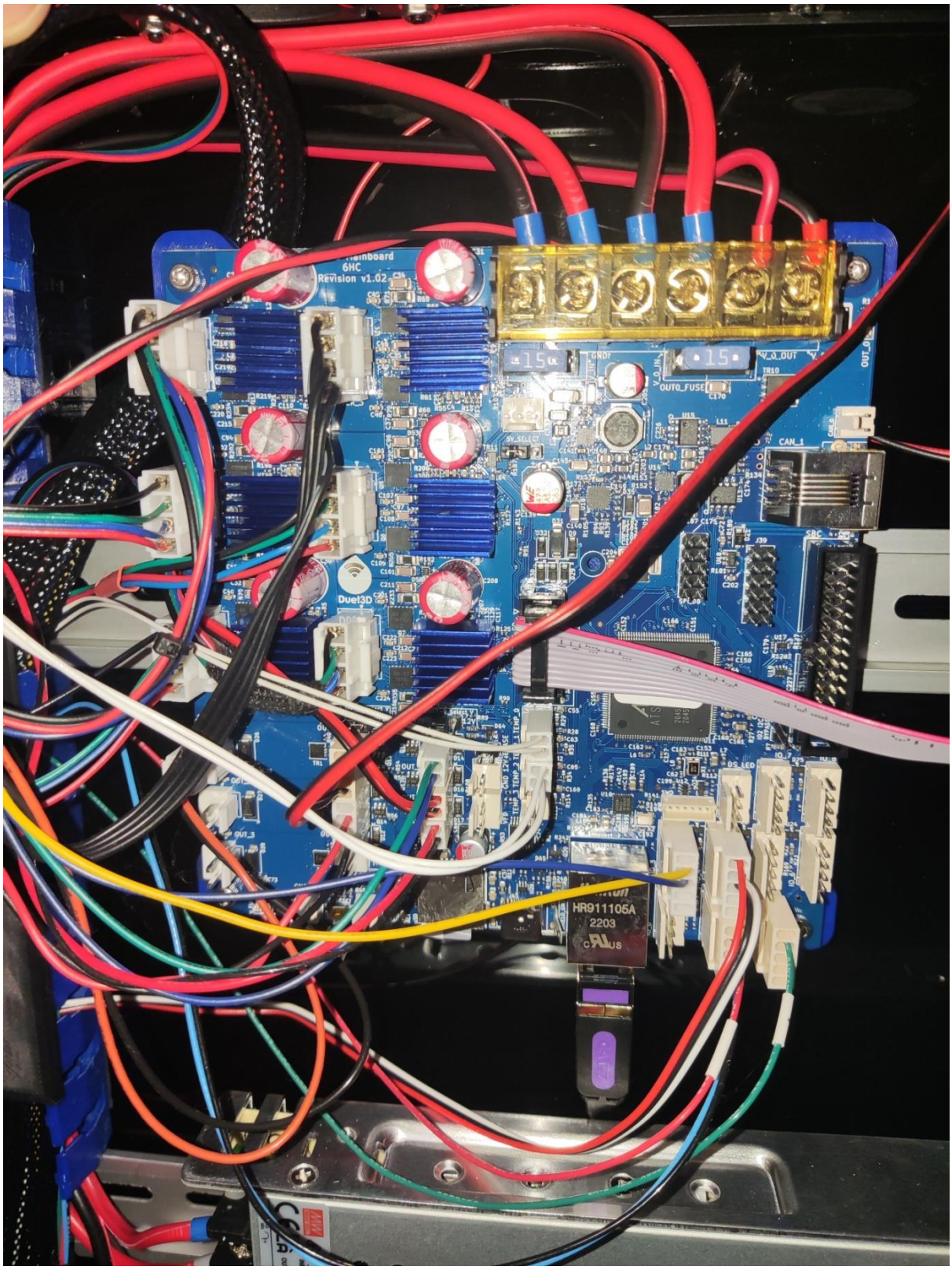
Temp 0	*two wires (VSSA) + (temp0)*	***Thermistor Bed***
Temp 1	*two wires (VSSA) + (temp1)*	***Thermistor Hotend***

IO_1	*three wires (io1.in)signal (GND)- (5V_EXT)+*	***endstop X axis***
IO_2	*one wire (io.2in) signal wire*	***endstop Y axis***
IO_3	*two wires (io.3in)signal (GND)-*	***endstop Z axis***
IO_4	*three wires (3.3v)+(io4.in)signal (GND)-*	***endstop A axis***

OUT 1	*two wires (out1)+(V_FUSED)*	***Heat element on Hotend***

OUT 4	*two wires (V_OUTLC1)+ (out4)-*	***24V electronics cooling fan (side skirts)***
OUT 5	*two wires (V_OUTLC1)+ (out5)-*	***24V LEFT SIDE Blower radial fan for part cooling***
OUT 6	*two wires (V_OUTLC1)+ (out6)-*	***24V RIGHT SIDE Blower radial fan for part cooling***
OUT 7	*two wires (V_OUTLC2)+ (out7)-*	***24V 30x30x10 Hotend fan***
OUT 8	*two wires (V_OUTLC2)+ (out8)-*	***24V electronics cooling fan (side skirts)***
OUT 9	*two wires (V_OUTLC2)+ (out9)-*	***24V Led lights***

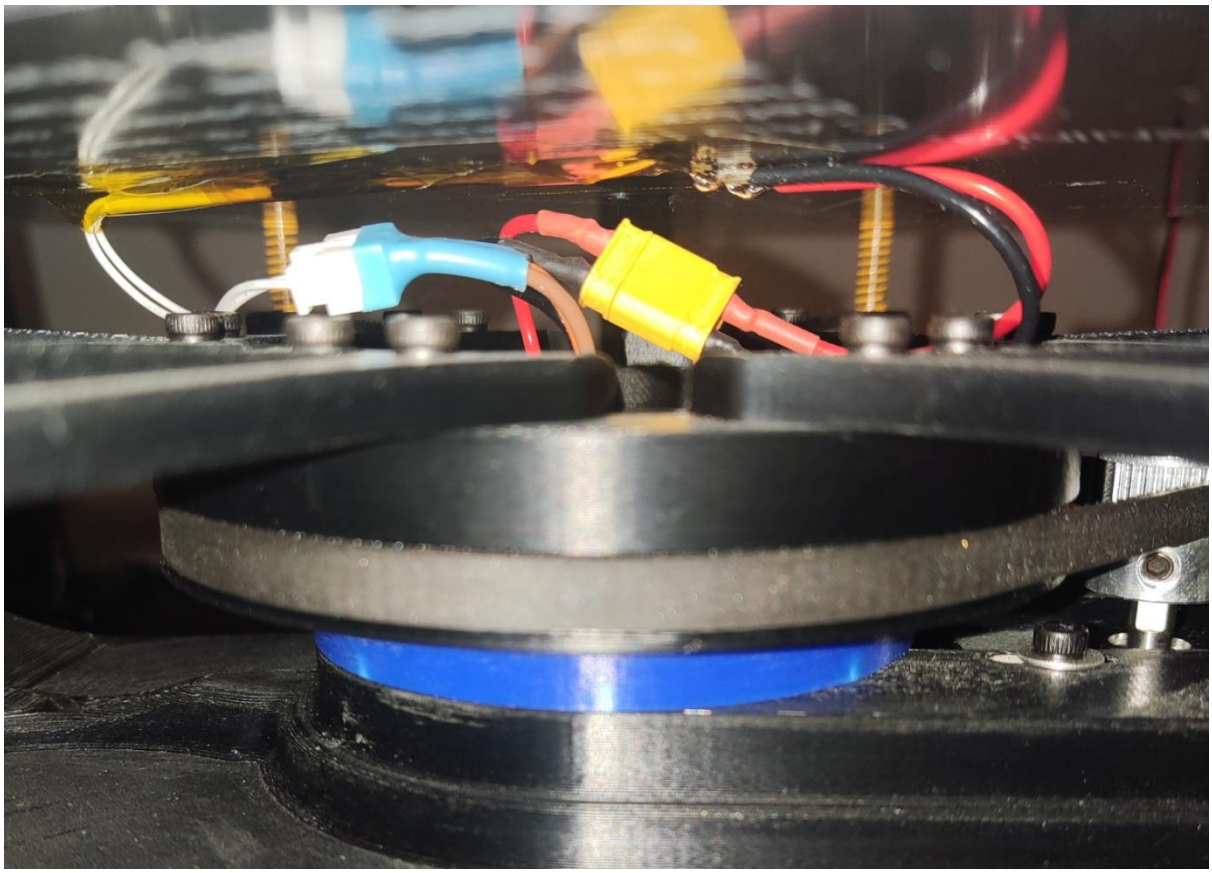
PANEL DUE		***Touch screen***


Mainboard
6HC
Revision v1.02
Duet3D
HR911105A
2203

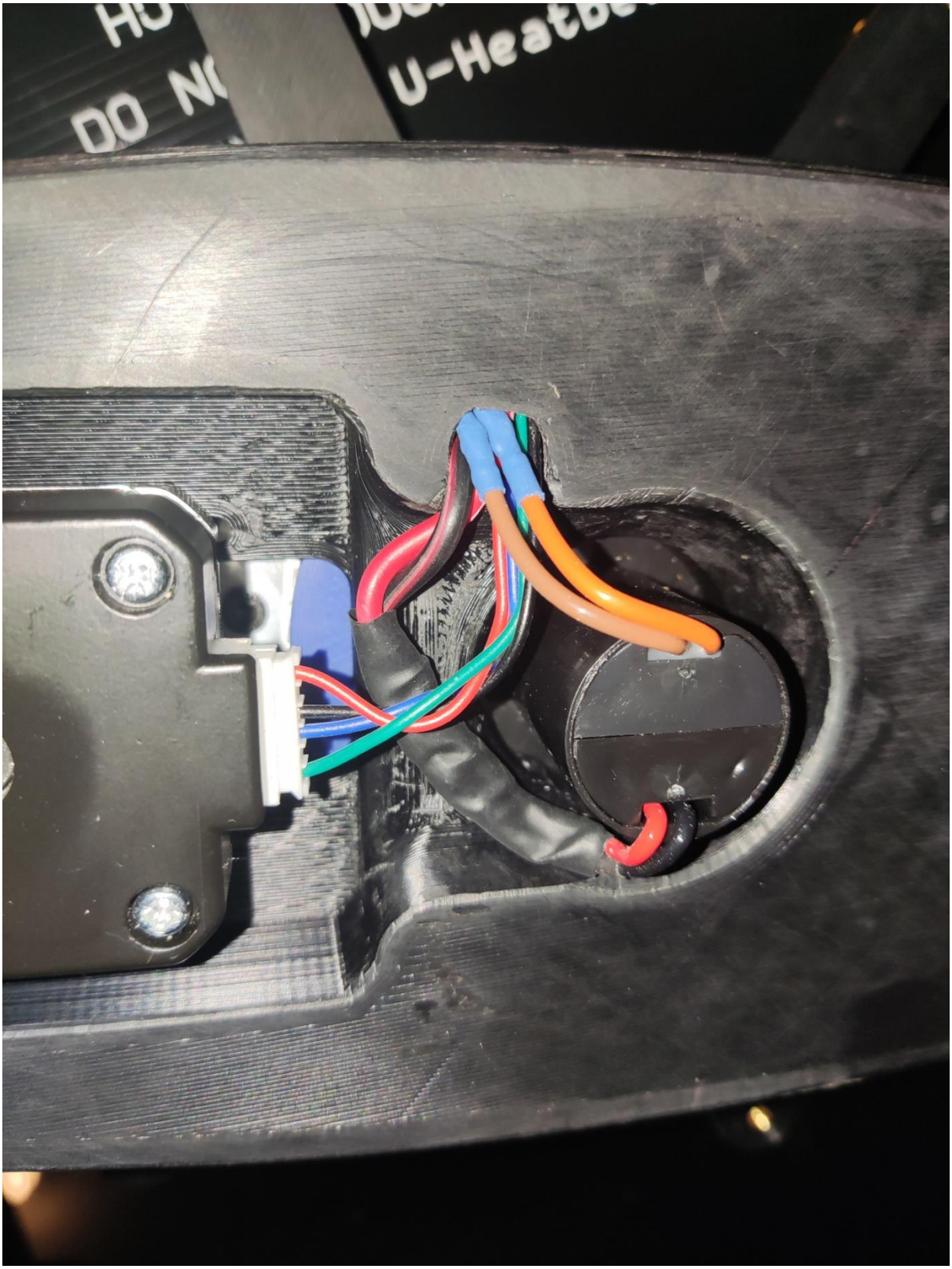
The connectors

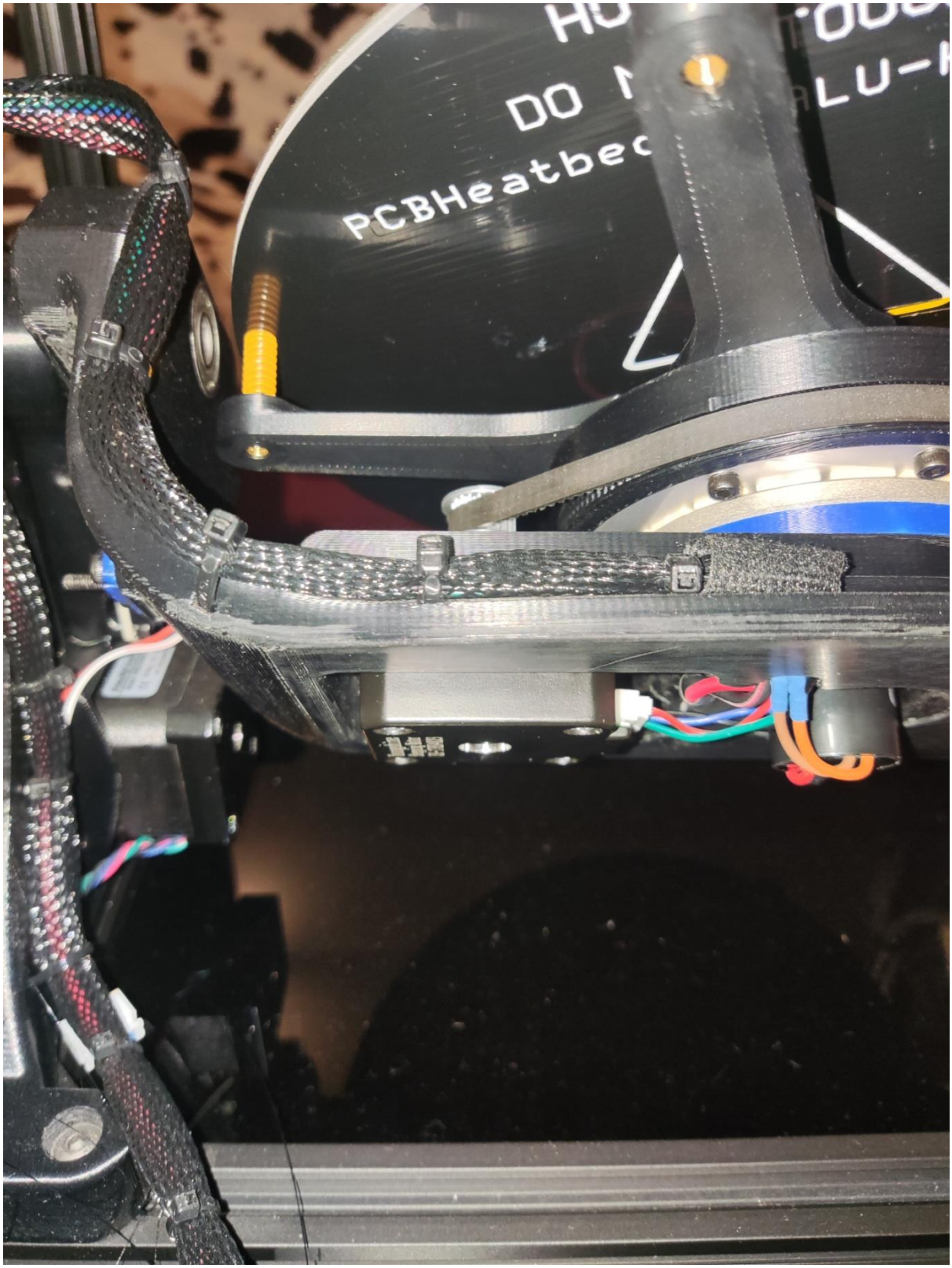
The aluminium rotary bed connectors are for heating the bed i used XT-30 connector and for thermistor, JST connector. The thermistor is held with kaplon tape. Please keep the wires short so they will not interfere with components when the bed is rotating.

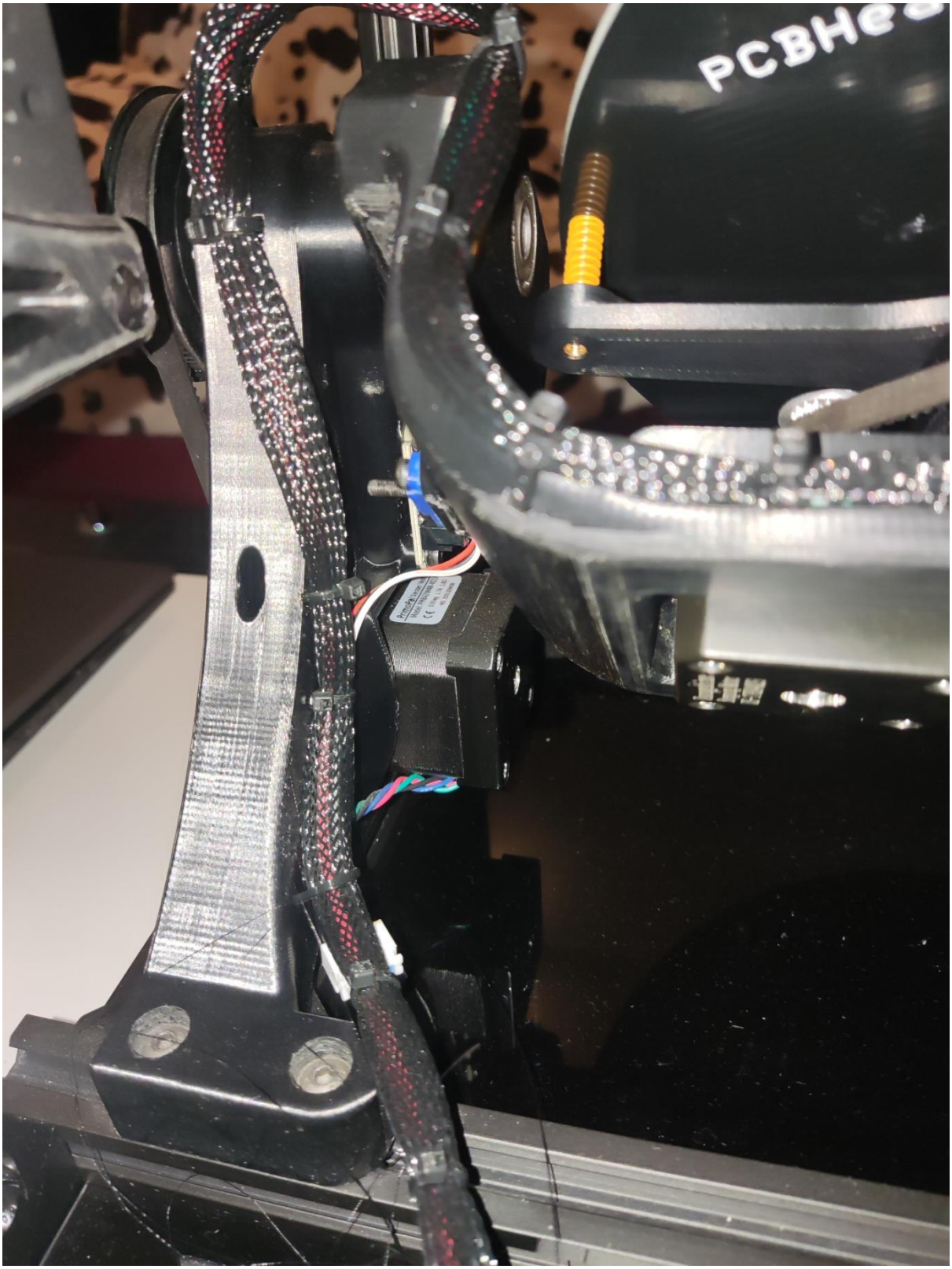
See more at the pictures below:

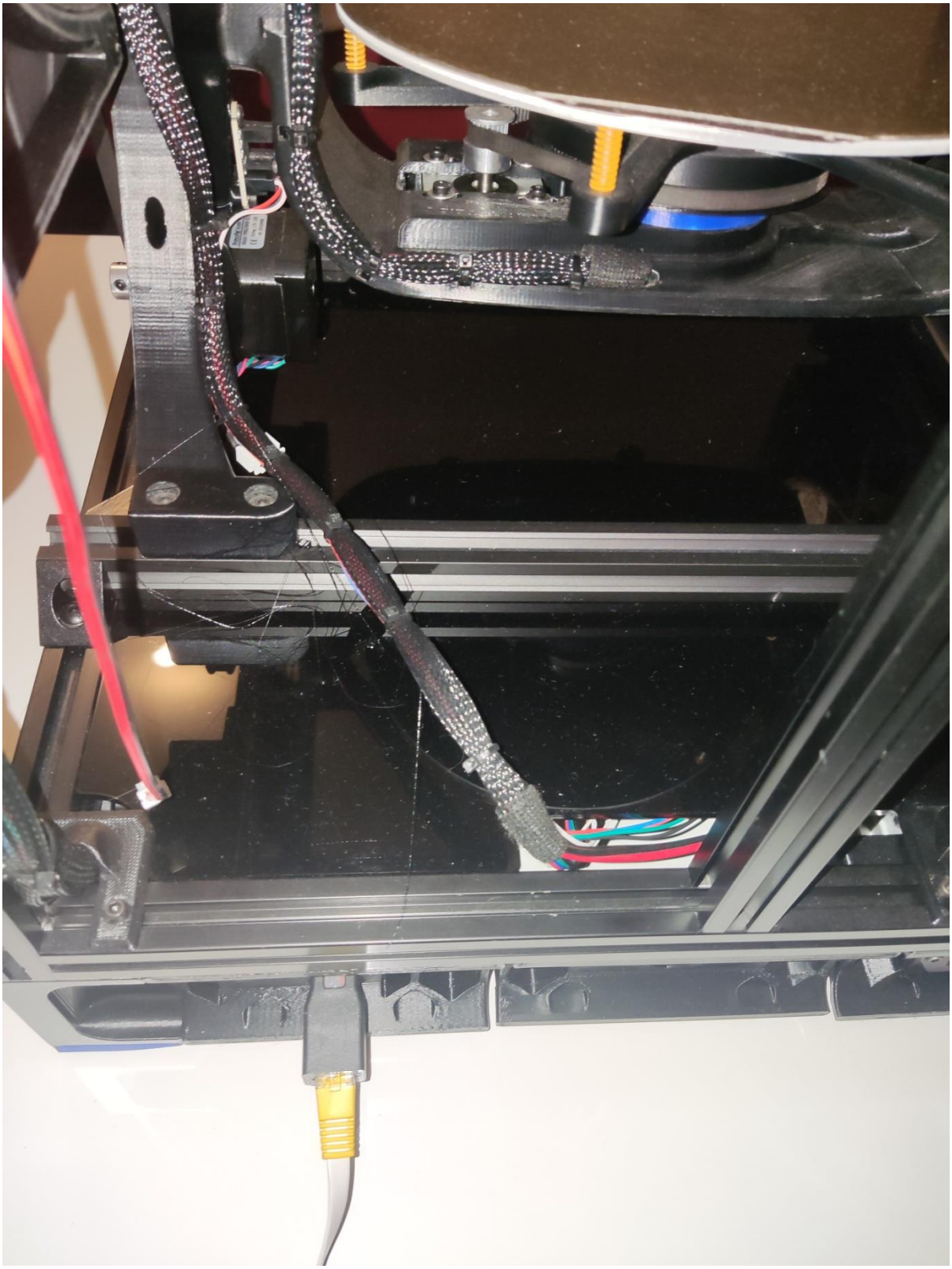


The wiring on the swivel bed is going through designed hole and continue with zip ties

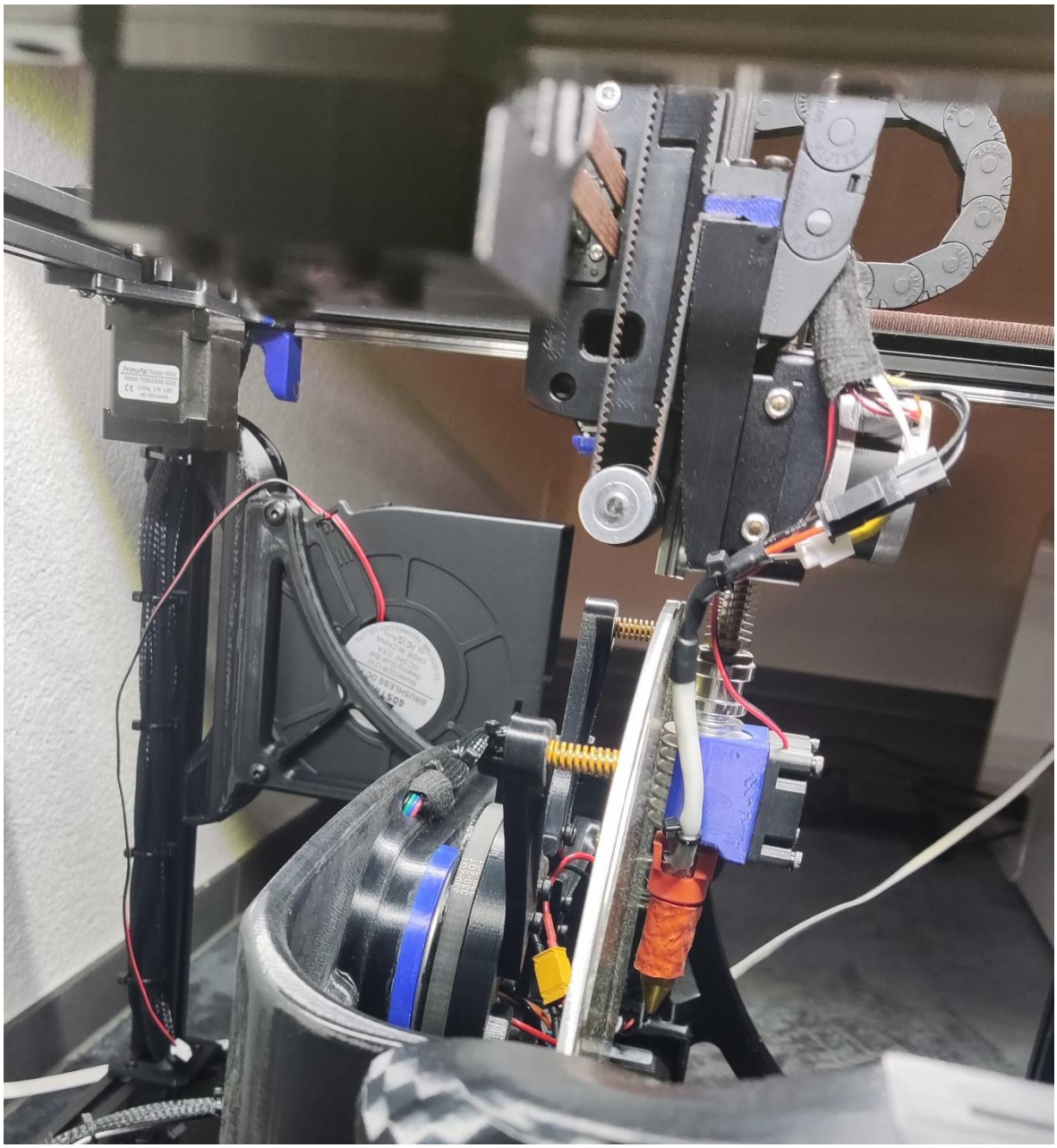

DO N
U-Heatbe

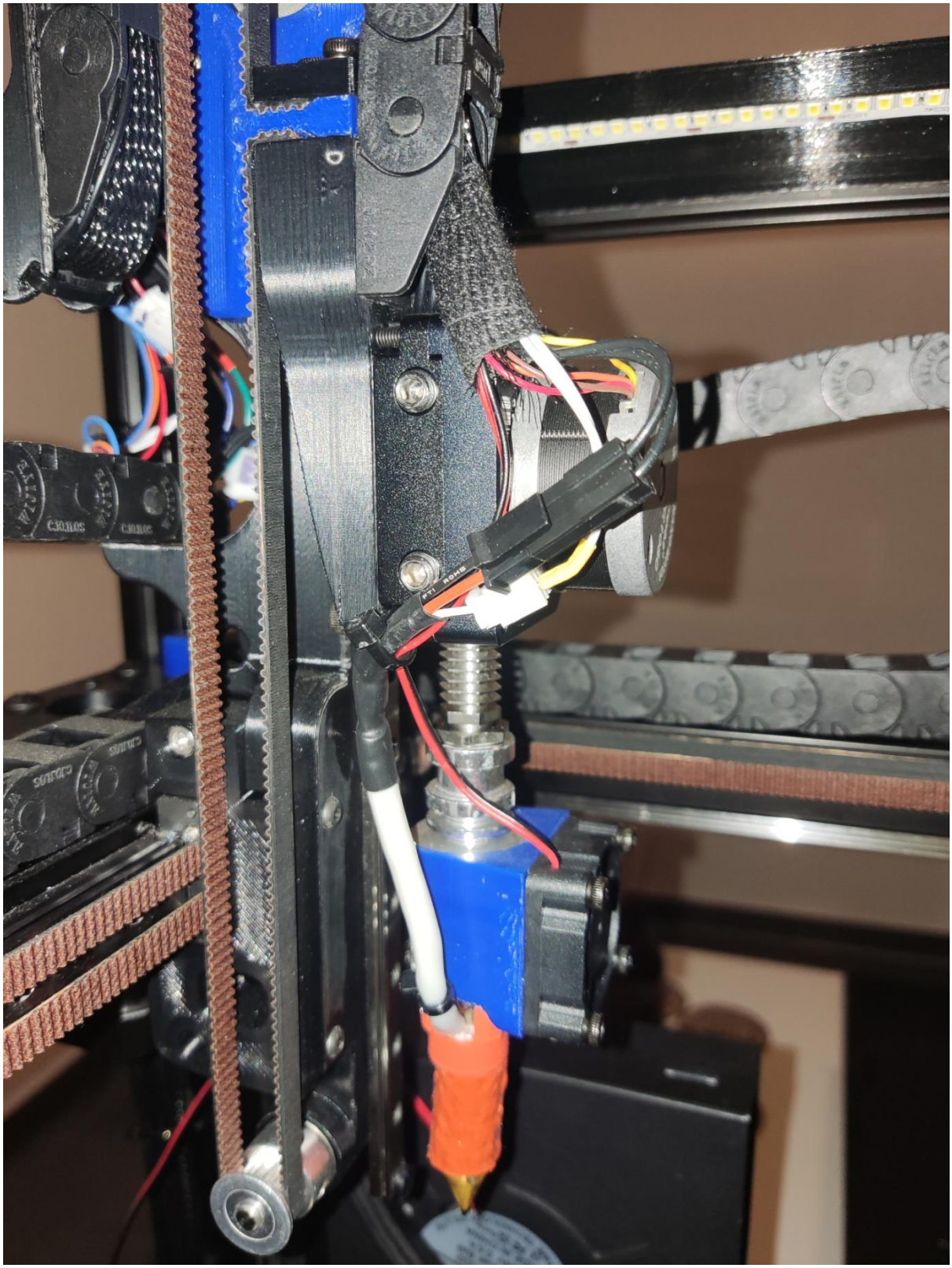

PCBHeatbed


PCBHe



Please make the Hotend and thermistor wires with connectors so it can be dismounted when needed .





Also make connectors for the complete Z-axis so it can be easily removed or replaced.