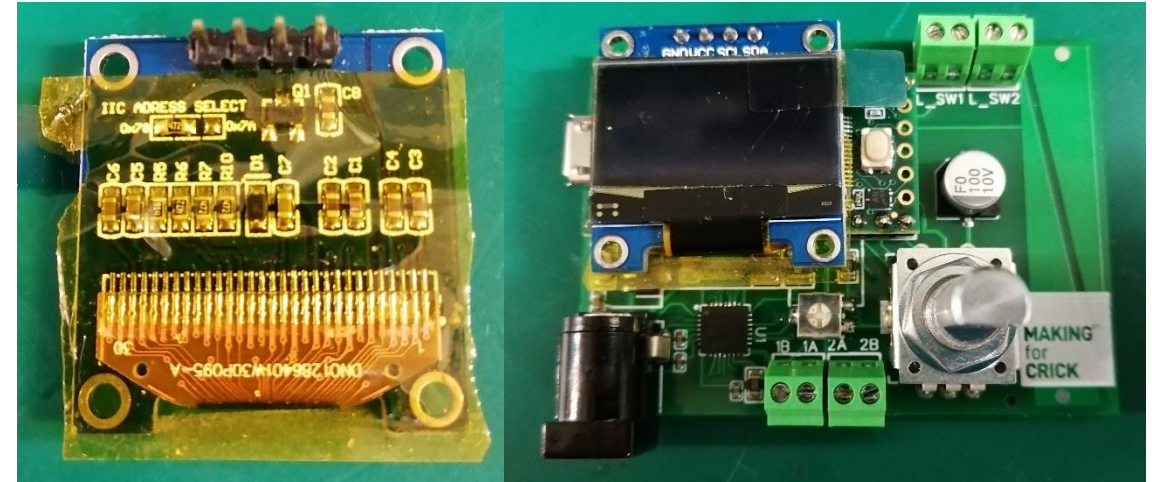


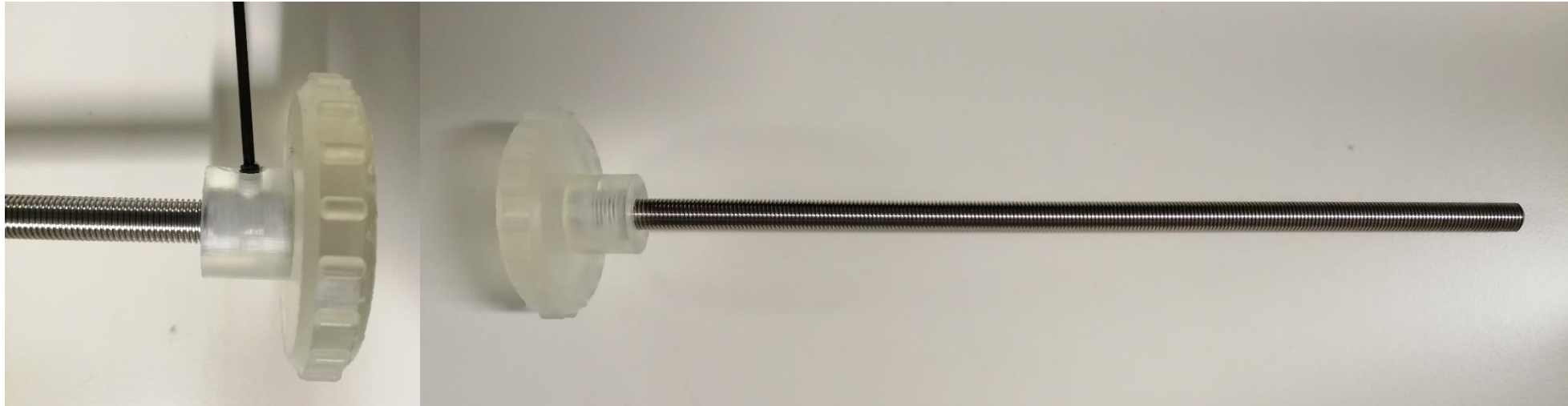
1- Solder the Encoder, screw connectors, barrel jack connector and Teensy 3.2 on the PCB



2- Add Kapton tape on the back of the LCD screen and solder it over the Teensy 3.2



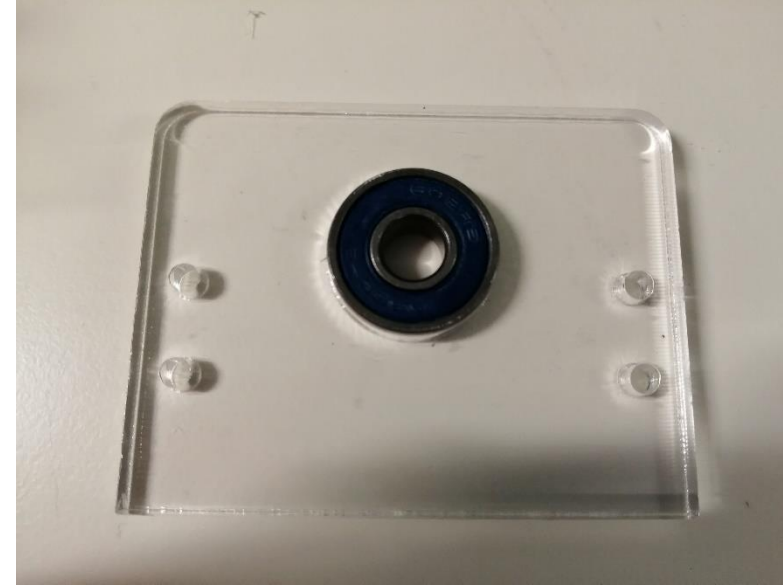
3- Attach the manual adjuster to the lead screw using an M4 screw



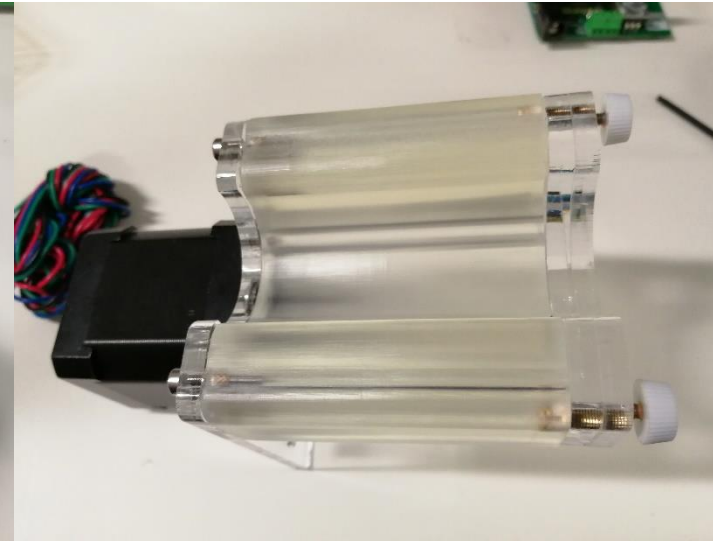
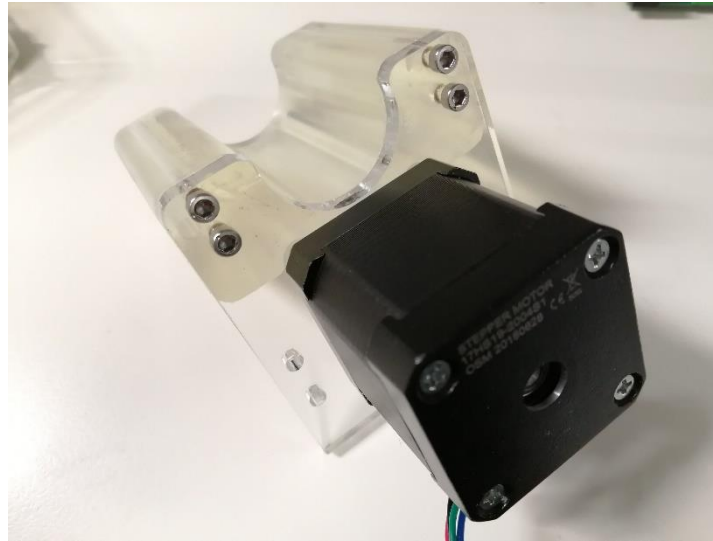
4- Attach the stepper motor with the motor holder using four M3 screws



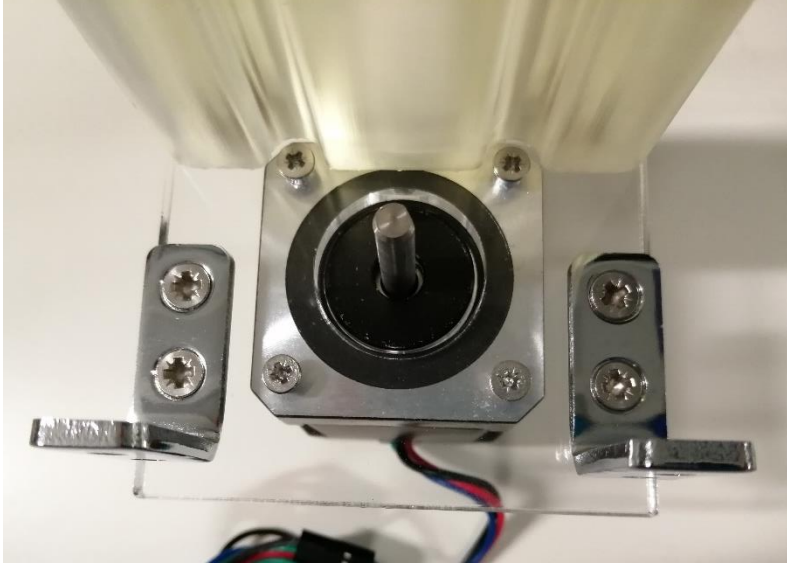
5- Insert the bearing on the bearing holder just applying pressure



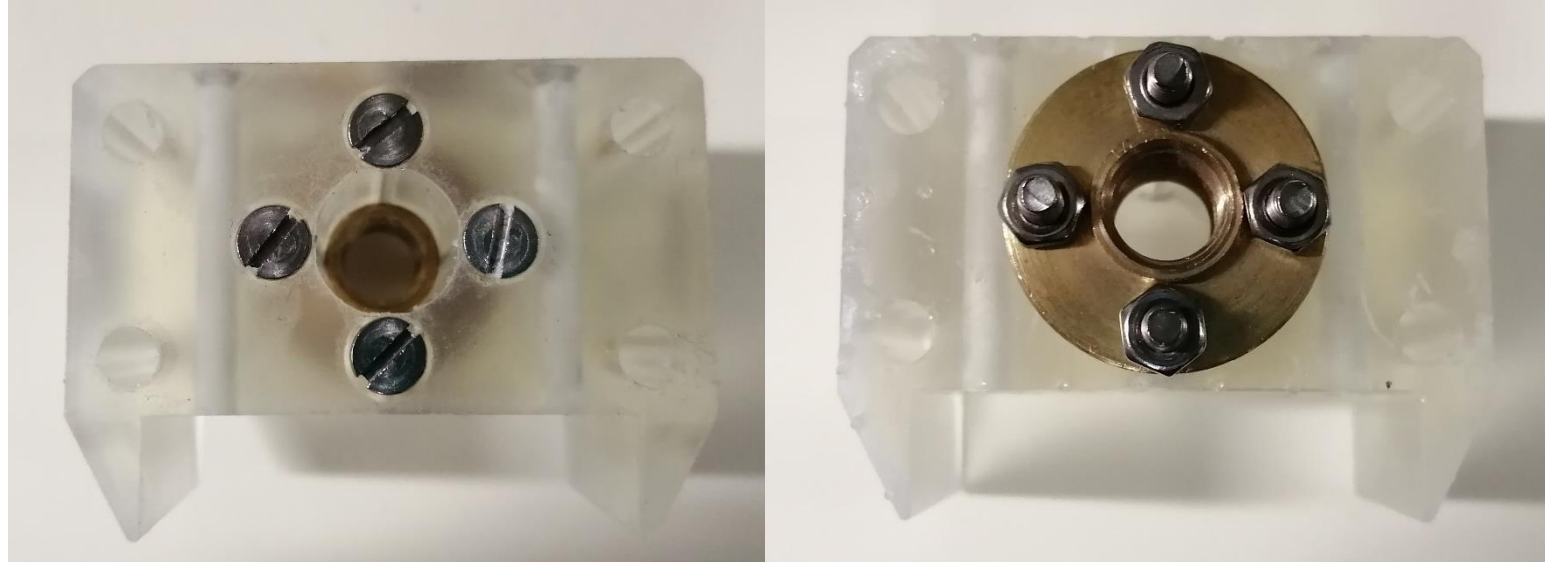
6- Attach the Nema 17 vertical support spacer with the motor holder with M3 screws and inserting previously M3 threaded inserts on the 3D printed part



7- Attach the two stainless steel brackets with the motor holder



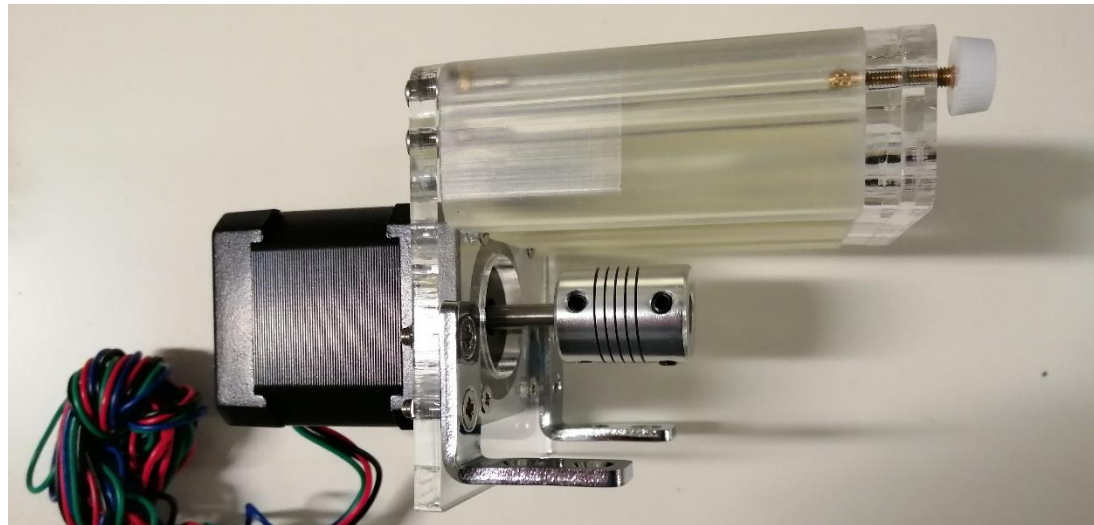
8- Attach the lead screw nut with M3 screws and nuts with the Cart



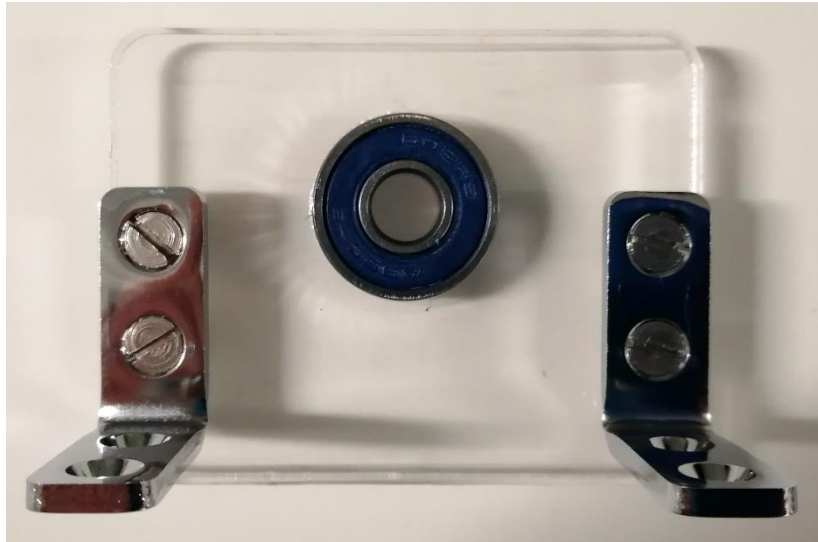
9- Attach the cart with the rail's cart using M3 screws



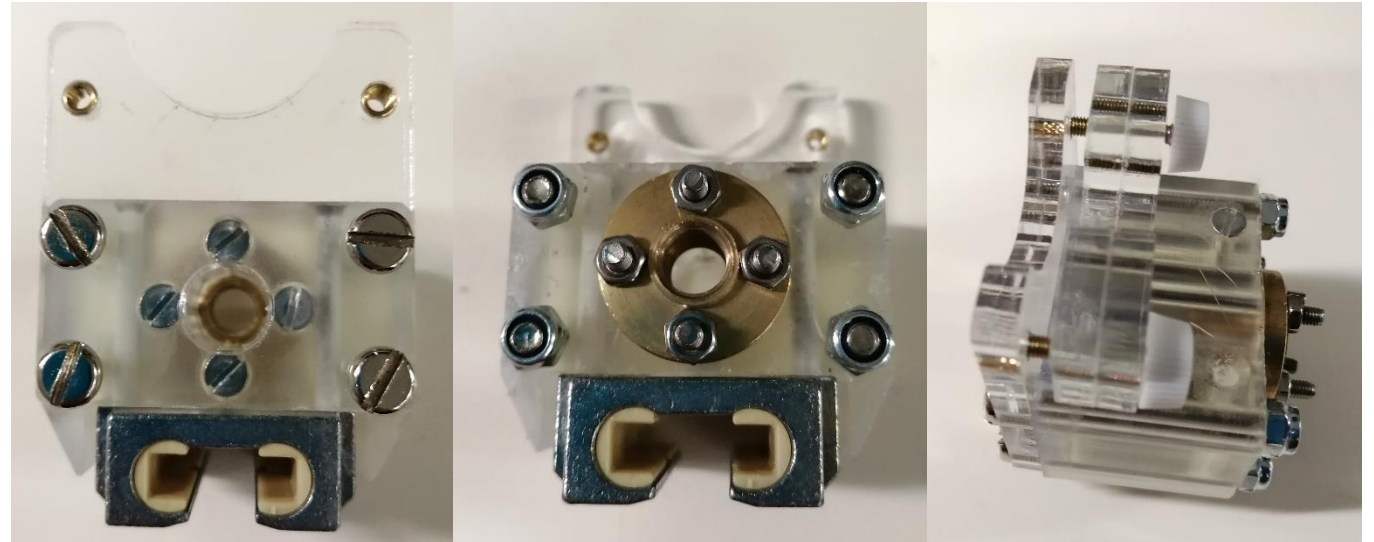
10- Attach the lead screw coupler with the motor shaft



11- Attach the two stainless steel brackets with the bearing holder



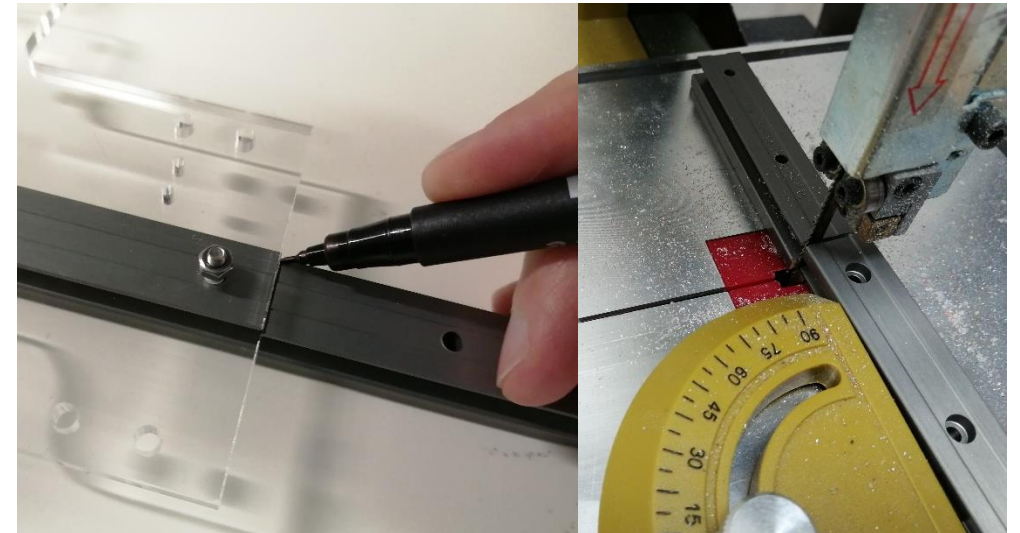
12- Attach the Syringe holder with M4 screws and the syringe holder 2 with M3 thumb screws with the cart previously assembled



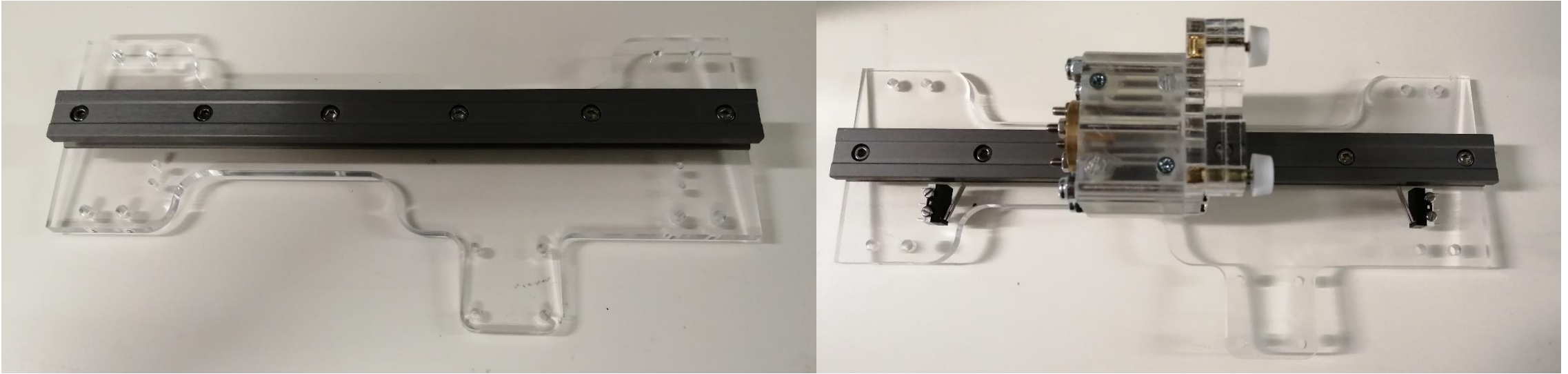
13- Attach the PCB with the Electronics base, cover and the spacers



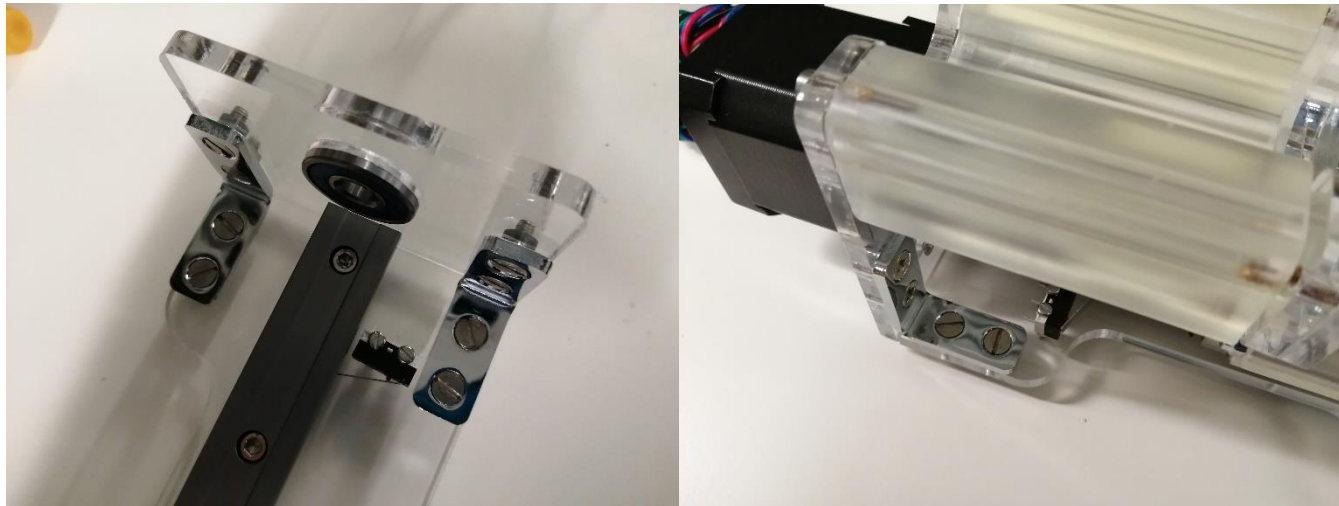
14- Cut the rail at the length of the base



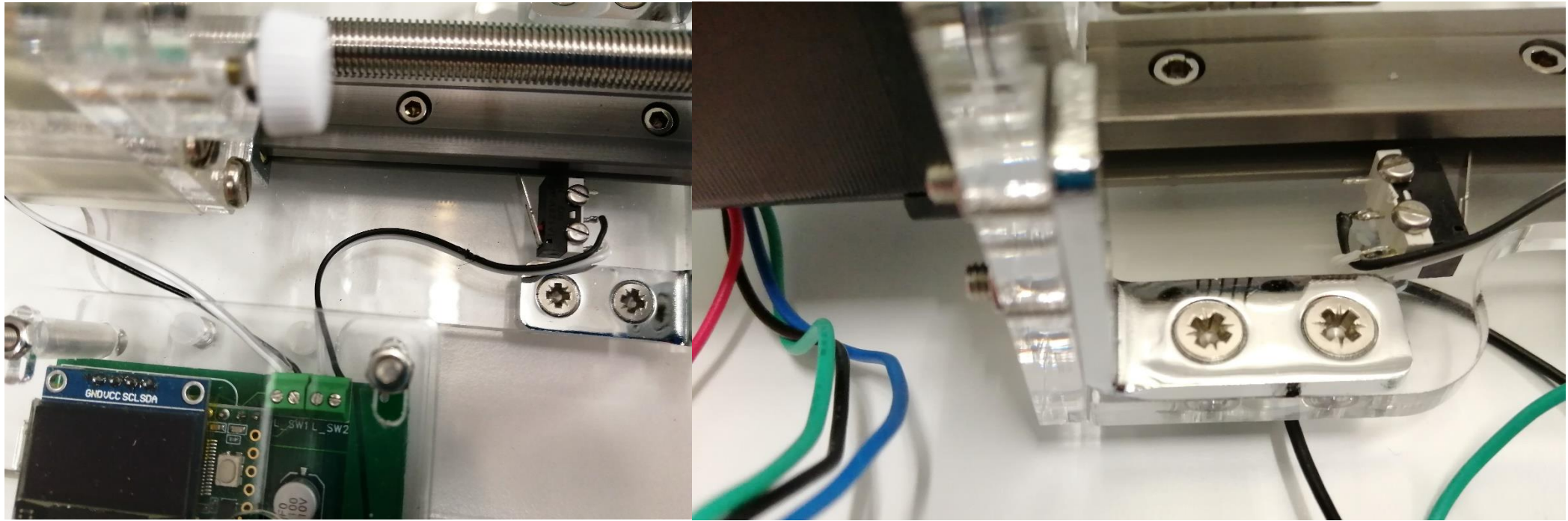
15- Attach the rail with the base, slide the cart assembled and attach the micro end stops with four M2 screws



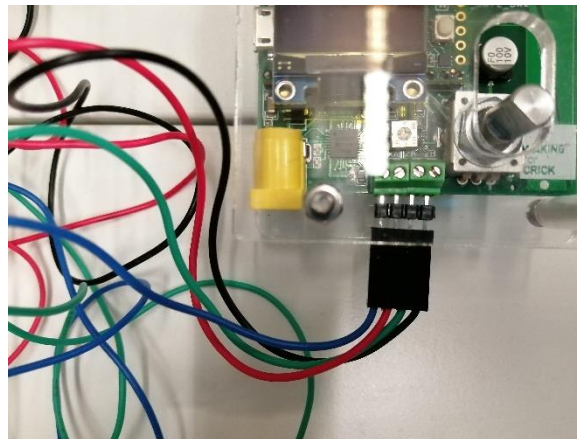
16- Attach the motor holder and the bearing holder with eight more M3.5 screws



17- Solder the first (Signal) and second (GND) pins of both end stops with wires and connect them to the PCB



18- Connect the motor to the front screw connectors



19- Upload the Code: *Syringe_pump_flow_rate_push.ino* and connect the 12V power supply to verify that everything is working fine

