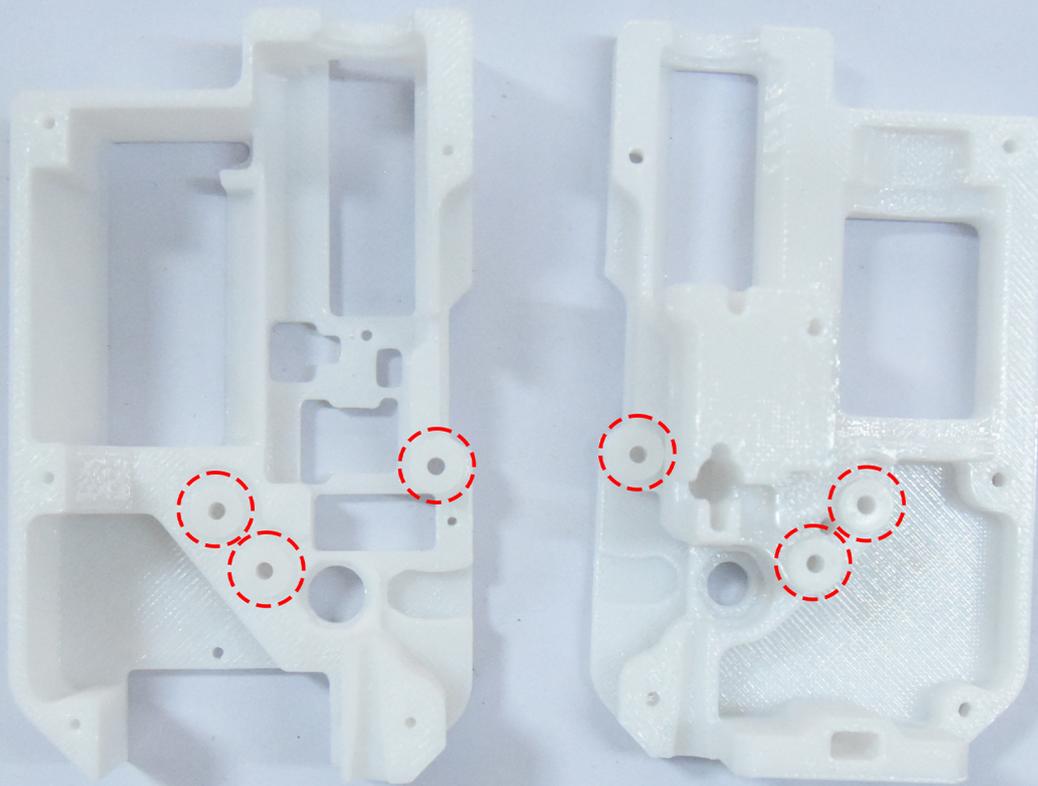
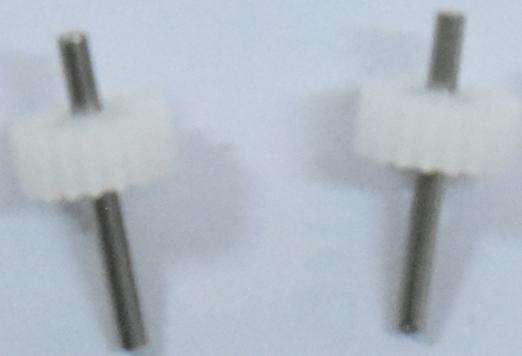


**BMCU 370C Hall Sensor
Switch Instruction
Manual (English Version)**

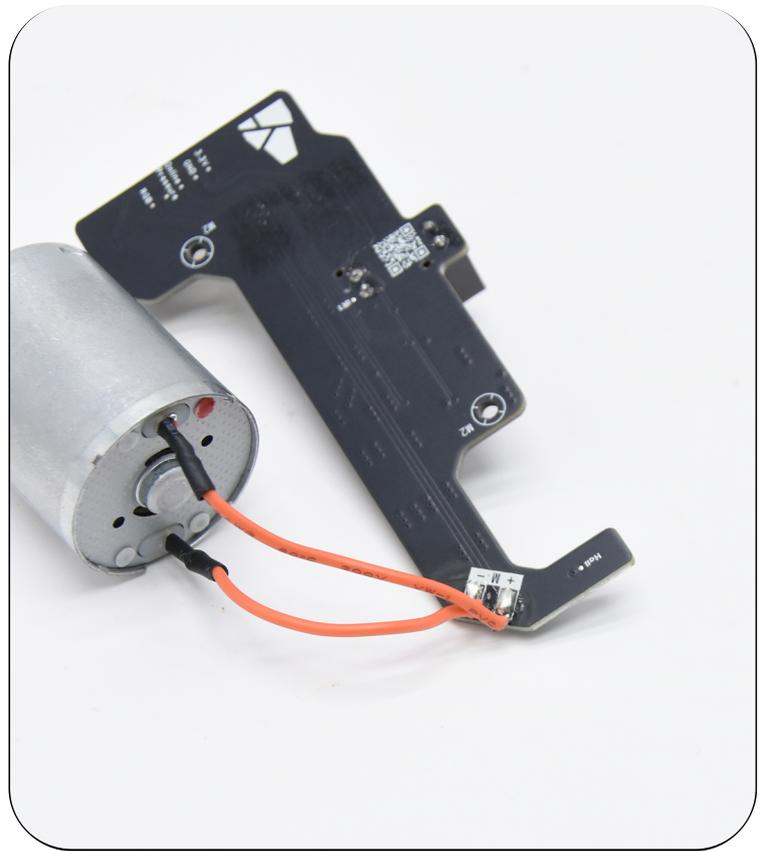
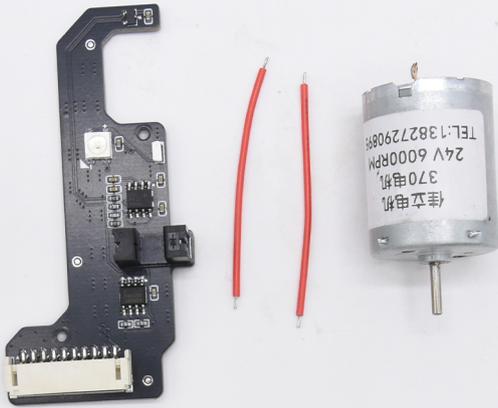
1

Install the Bushing: Insert the 62B bushing into the rear cover and the middle frame as shown in the picture above. After installation, set the rear cover aside temporarily.

2

Assemble the D2*20 Shaft with the 182A Gear: First insert the shaft into the bushing, then pinch the gear and press—it's more labor-saving! (Ensure the exposed parts on both sides are same.)

3



Solder Wires to the 370 Motor: The pin with the red dot on the motor is the positive pole.

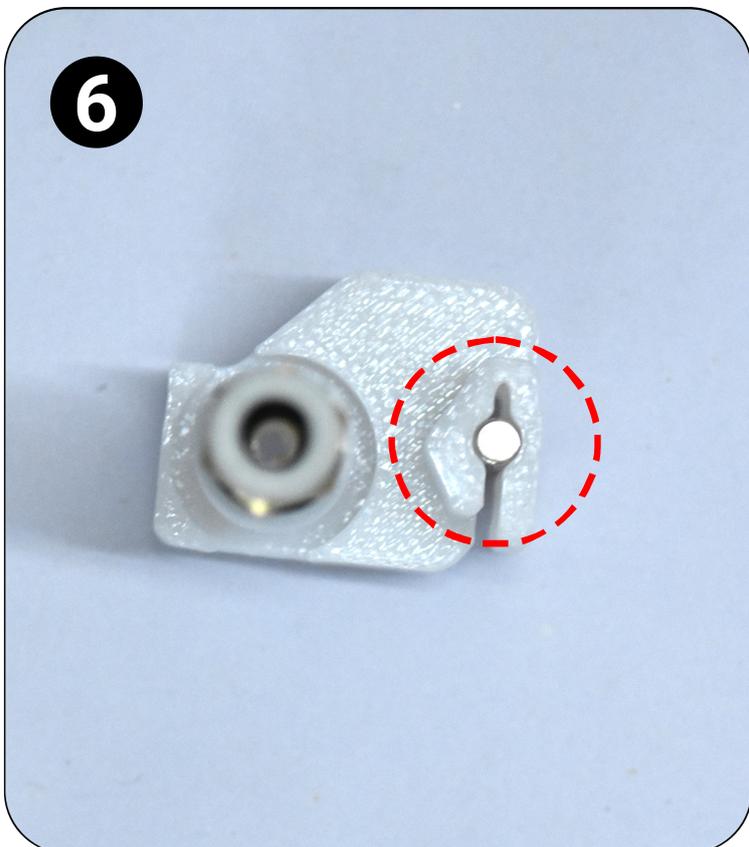
4



Install the Worm Gear on the 370 Motor: Align the motor shaft with the worm gear. In order to be more stable, you can apply little 502 glue here.

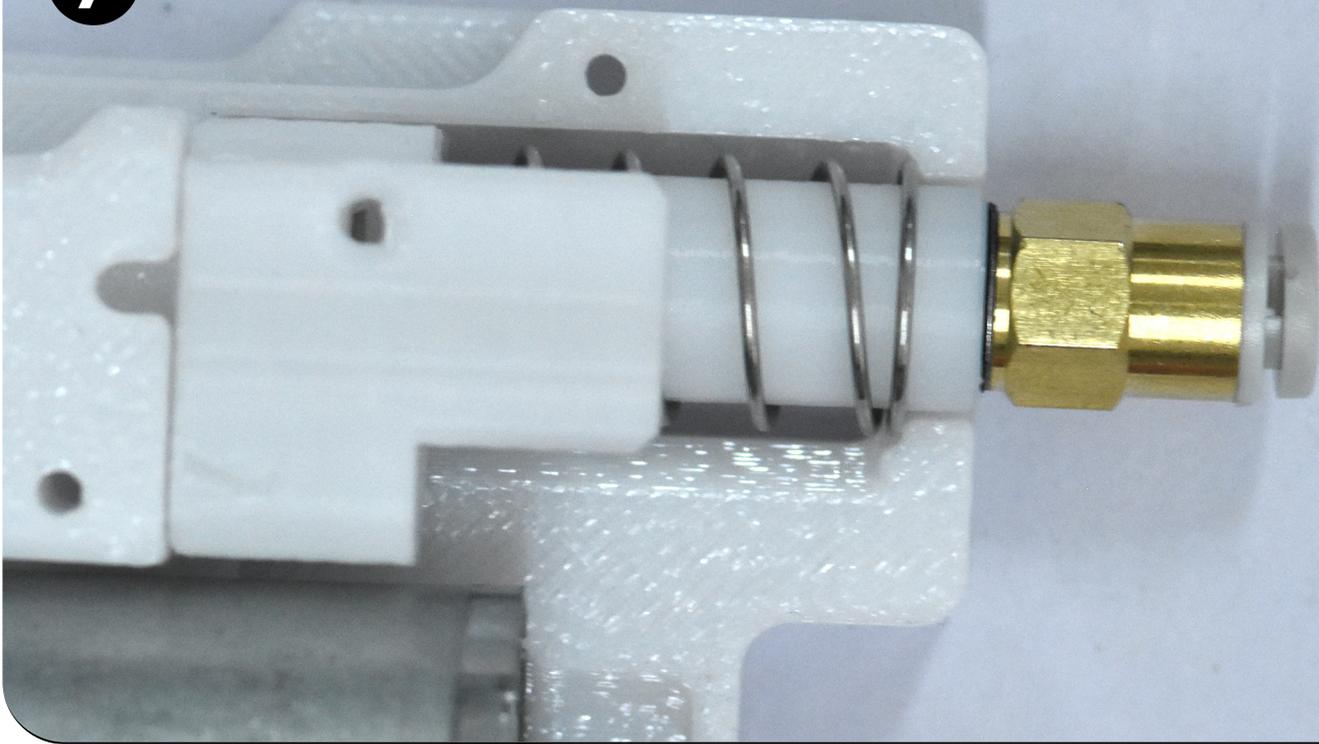


Determine the Polarity of the Slider Magnet: Prepare a water-filled container. Attach two D3*10 magnets, place them in a polarity tester, and float the tester on water. Once stabilized, the south-facing end is the south pole, is the other the north pole.



Install the Magnet into the Slider: Position the slider as shown, insert the magnet south-pole down (near the pneumatic connector mounting position).

7



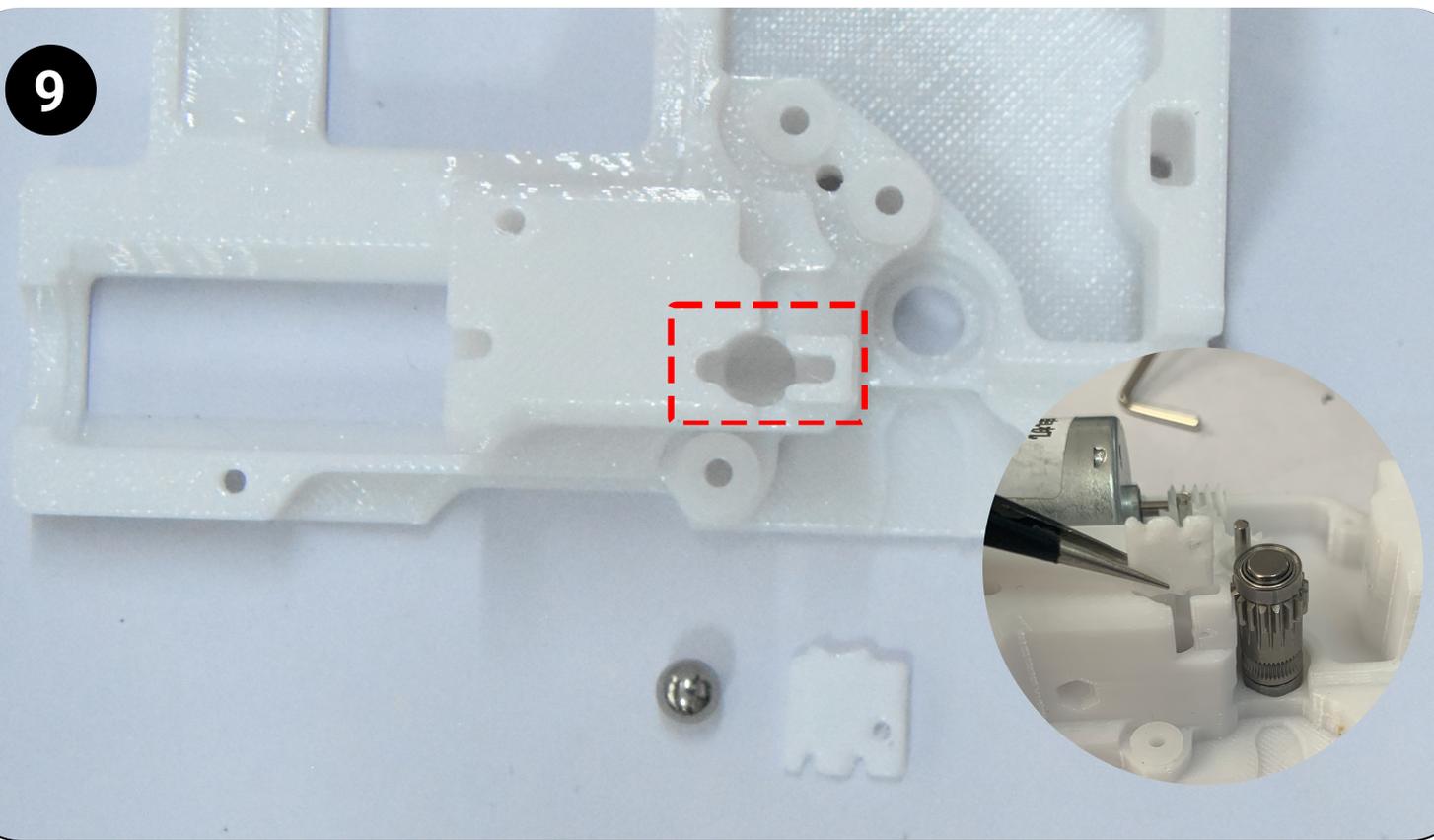
Install the Slider and Slider Spring: Put one 0.8*12*25 spring into the slider and lock it in the slider mounting position.

8



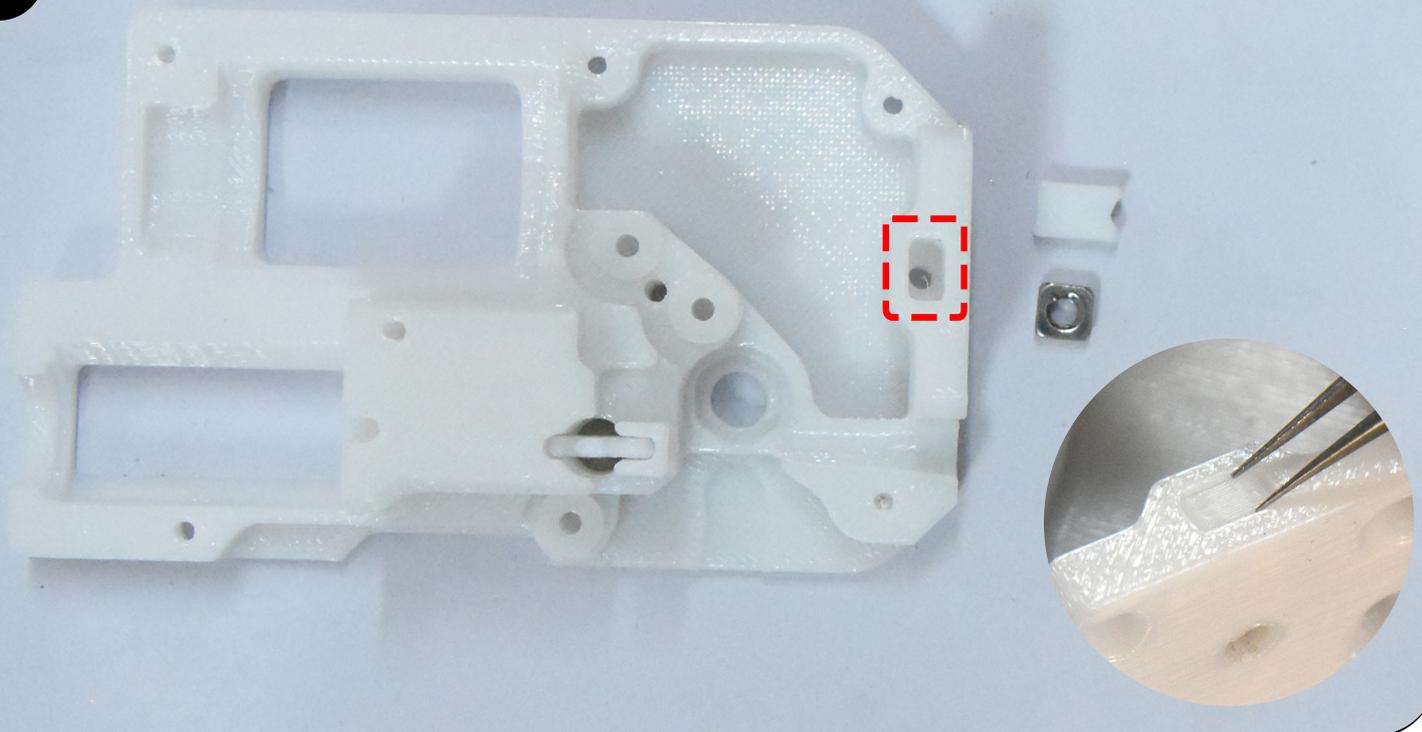
Install the Motor: Place the motor in this position and fasten it with one M3*5 machine screw.

9



Install the ball bearing and filament break detection device: Pay attention to the direction of the slider.

10



Install the Nut and Nut Plug: Put one M3 hex nut into the groove and insert the nut plug to fix it.

Assemble the Drive Wheel

11



The picture above shows all components of the gear kit.



Take one D5x22mm shaft and two MR85ZZ bearings, press the shaft into one of the bearings.
(Note: Pls leave 1mm gap)



As shown in the picture, insert the shaft to the extrusion wheel with the set screw hole.



Use an allen wrench to install the set screw into the set screw hole of the extrusion wheel.



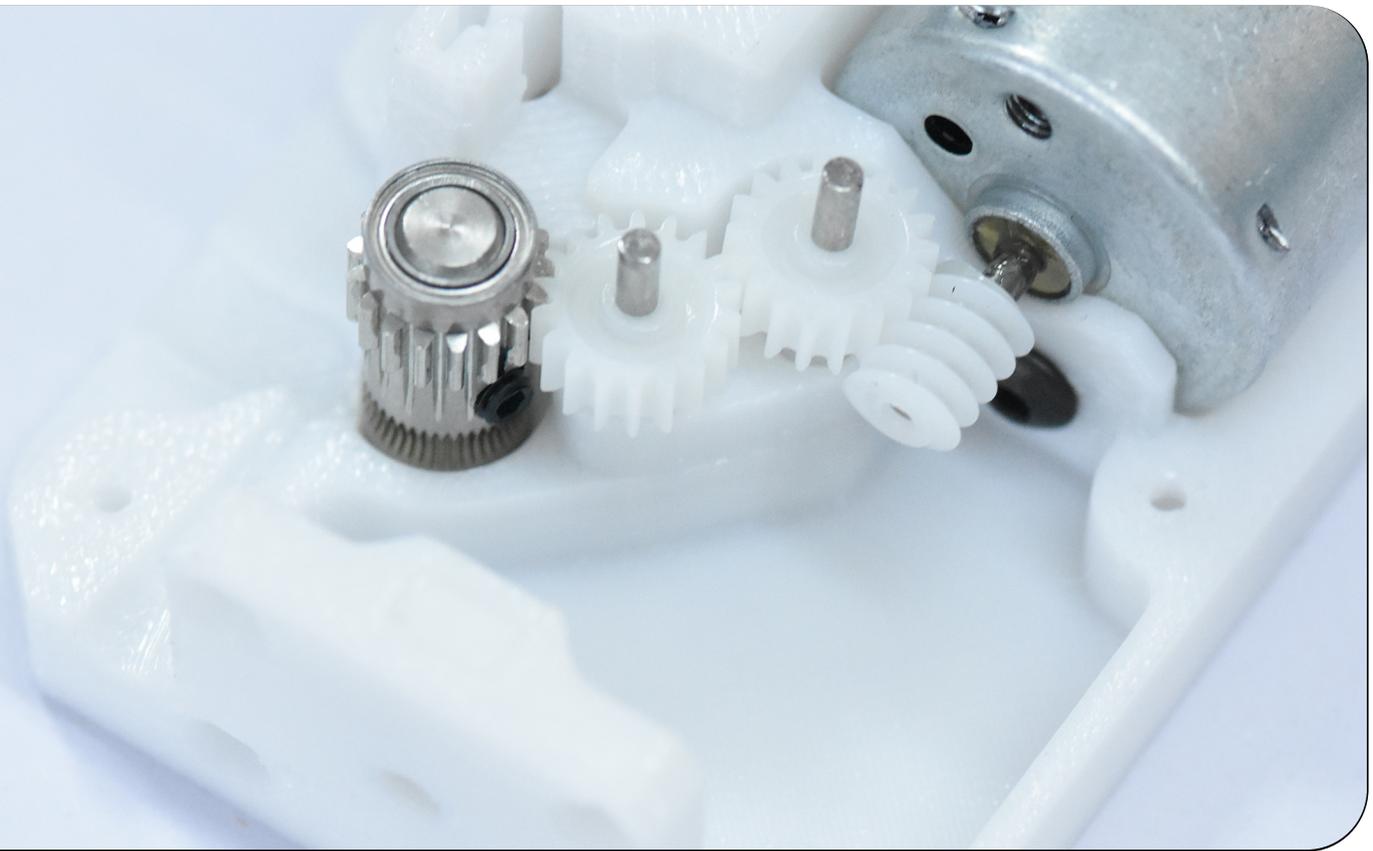
Install the top bearing and make it fits closely with the extrusion wheel



Note: Pls leave 1mm gap

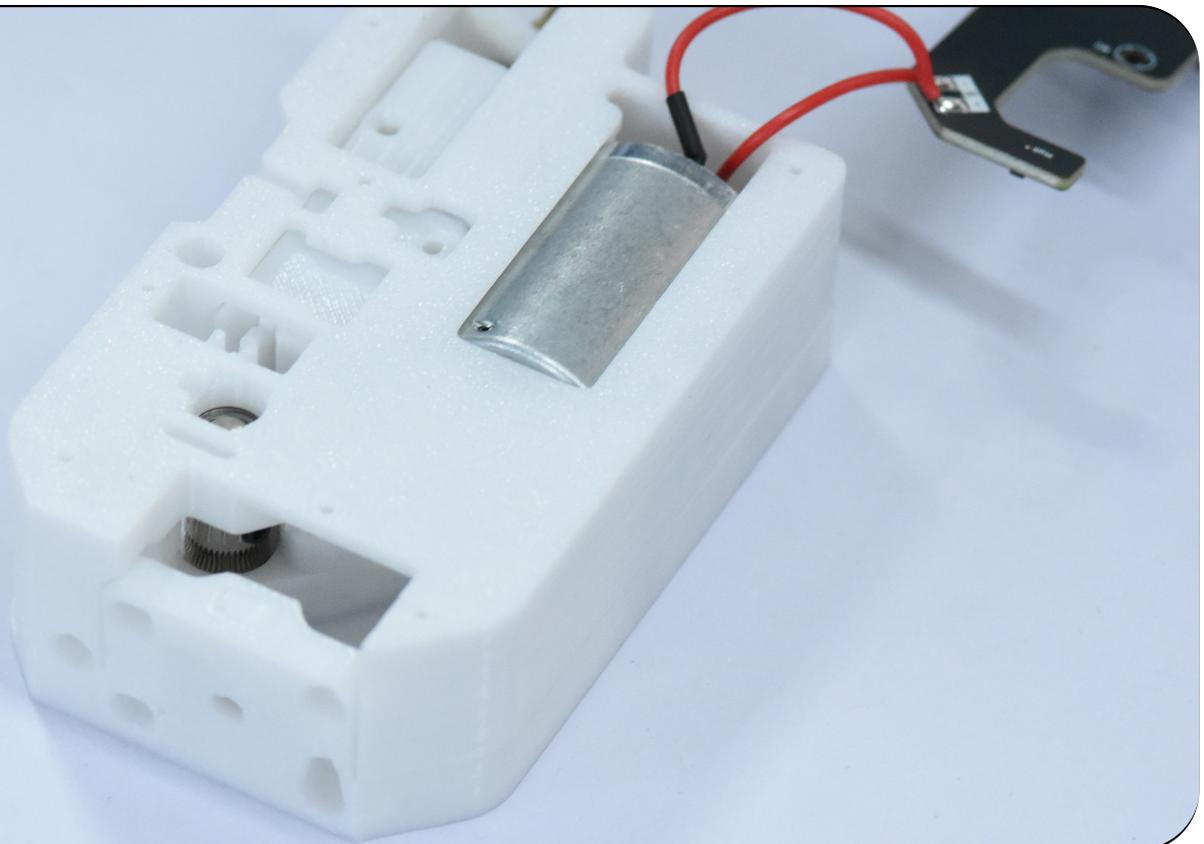
Assembly is complete

12



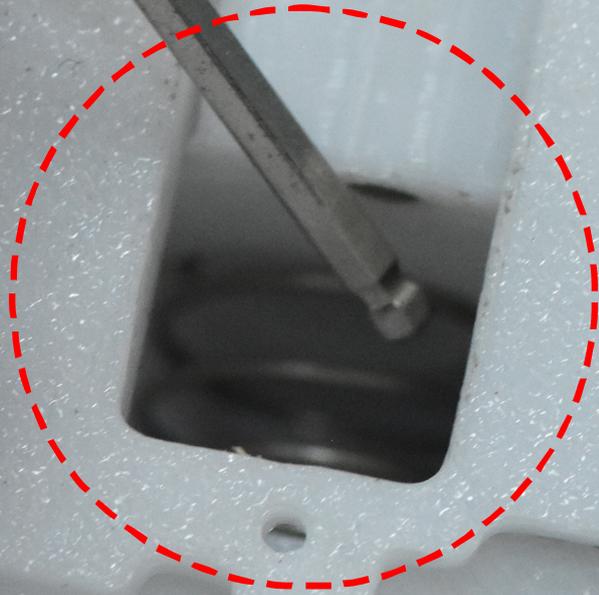
Install the Drive Wheel and Driven Wheel

13



Install the Middle Frame: Snap the middle frame on the rear cover. The part of the slider with the magnet should pass through the middle frame.

14



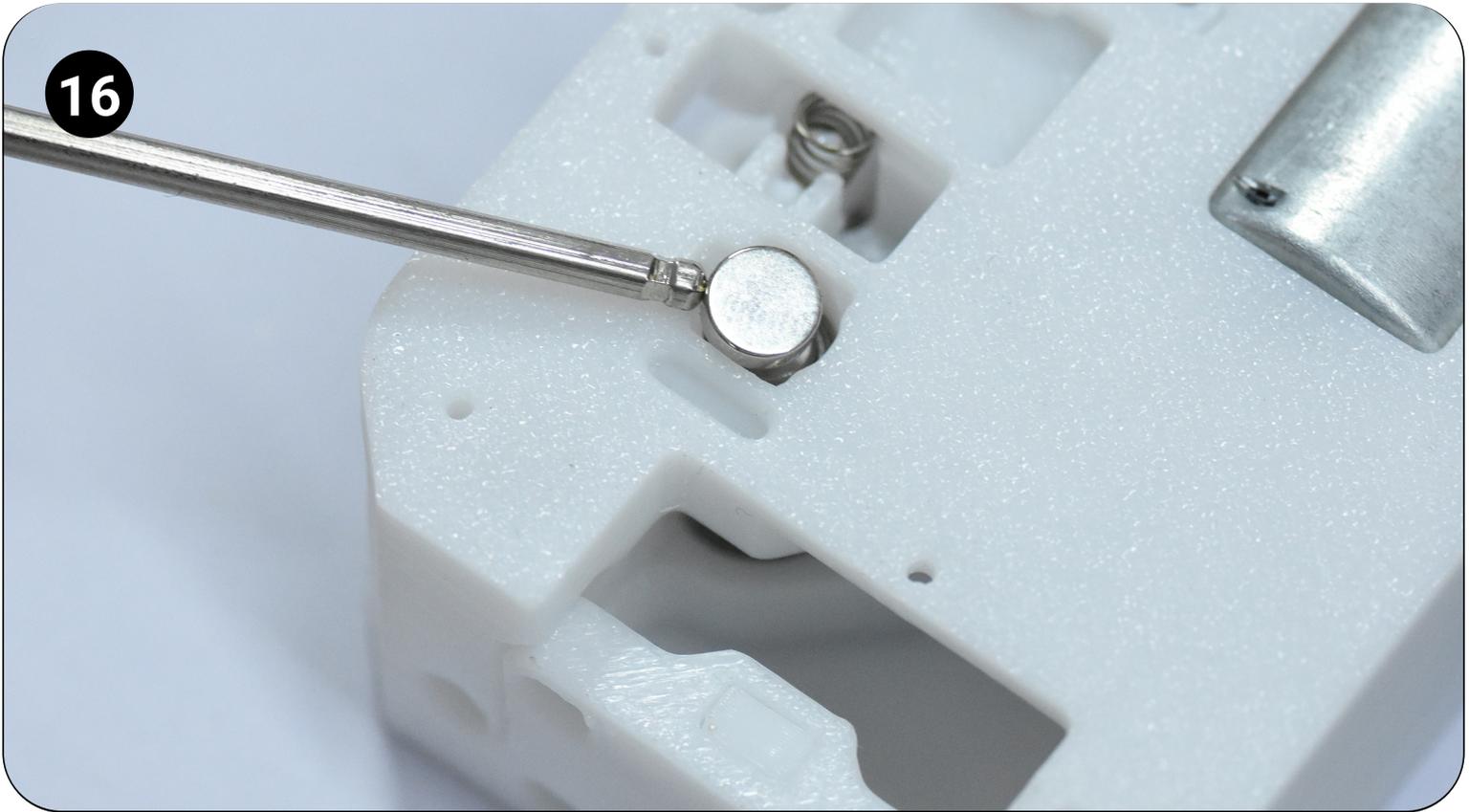
Install the Slider Bottom Spring: Put the 0.8*12*25 spring into the bottom of the slider and lock it in the middle of the slider position.

15



Install the Filament Break Detection Device Spring: Place one 0.3*4*5 spring above the filament break detection device.

16



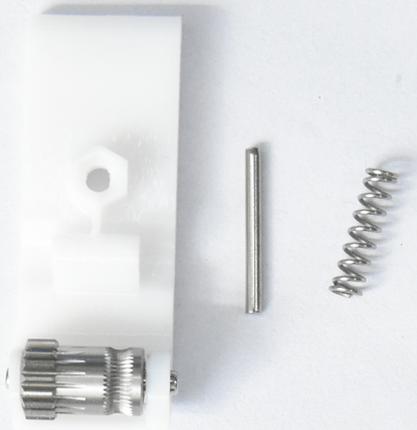
Install the Radial Magnet: Attach one D6*2.5 radial magnet above the drive wheel, ensure it won't be pressed by anything and can rotate along with the wheel.

17



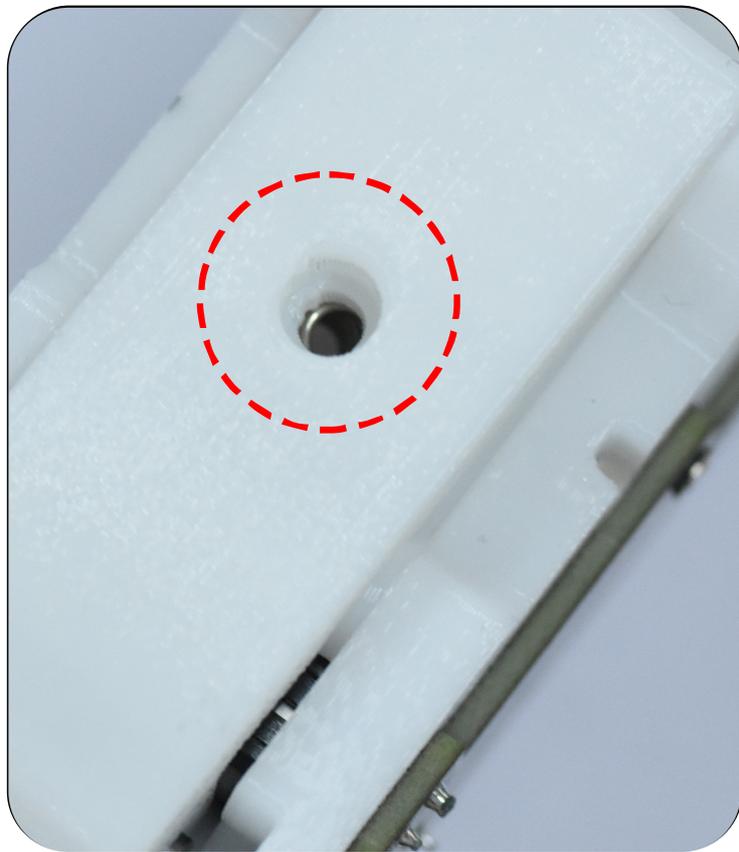
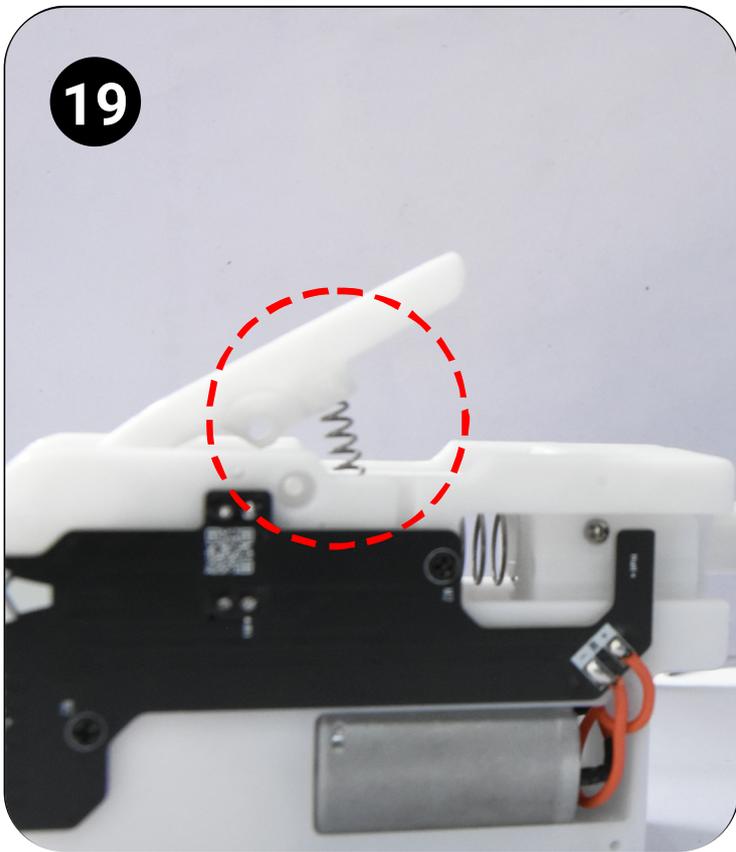
Fix the Mainboard: Fix it with two M2*8 self-tapping screws.

18



Install the Handle.

19

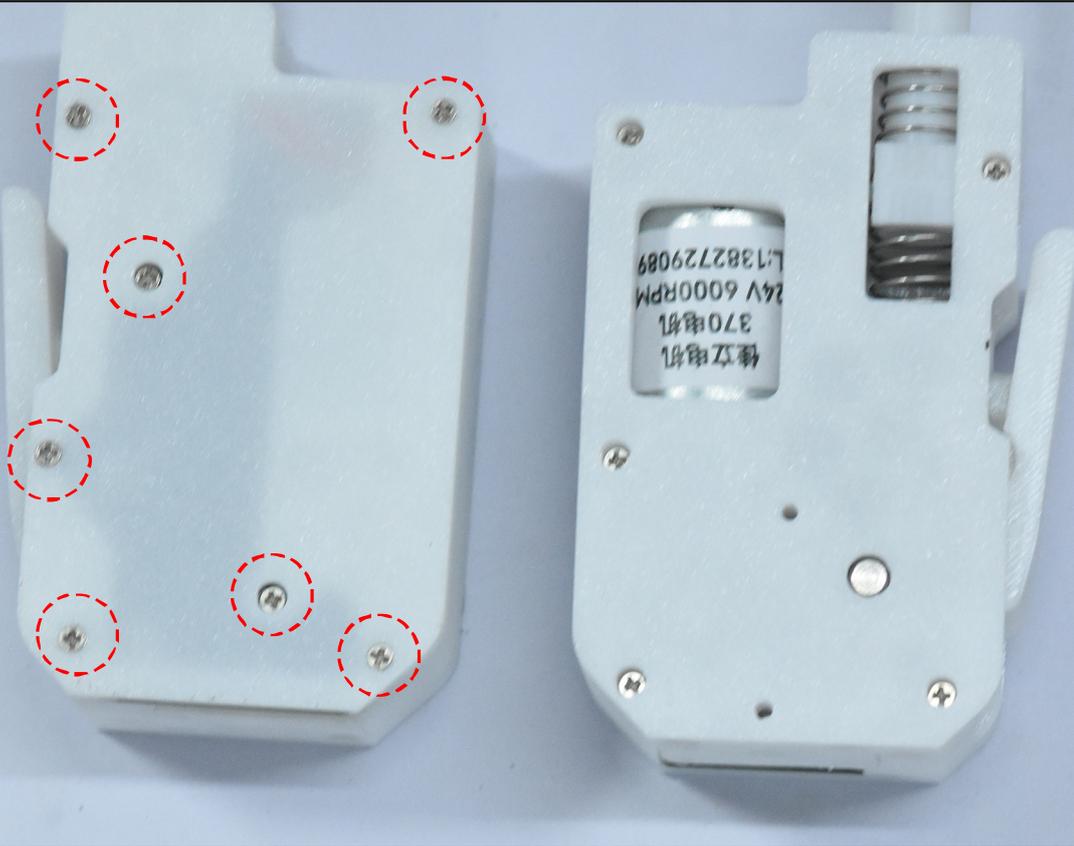


20



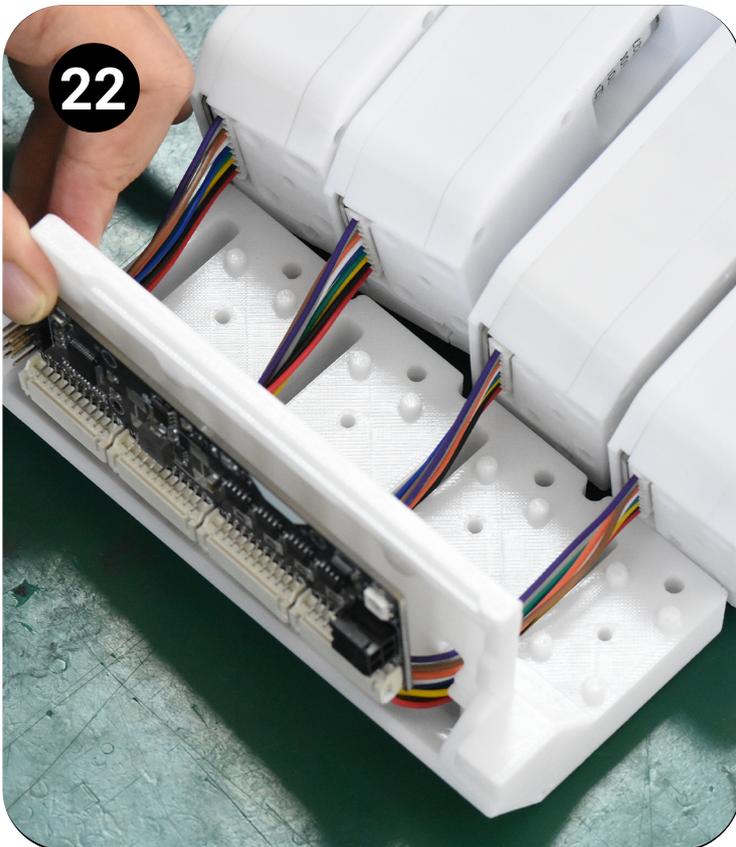
Add the Spring and Shaft: Put one 0.6*4*10 spring into the position as shown above, place the handle, press it with your hand, and insert a D2*20 shaft through it.

21



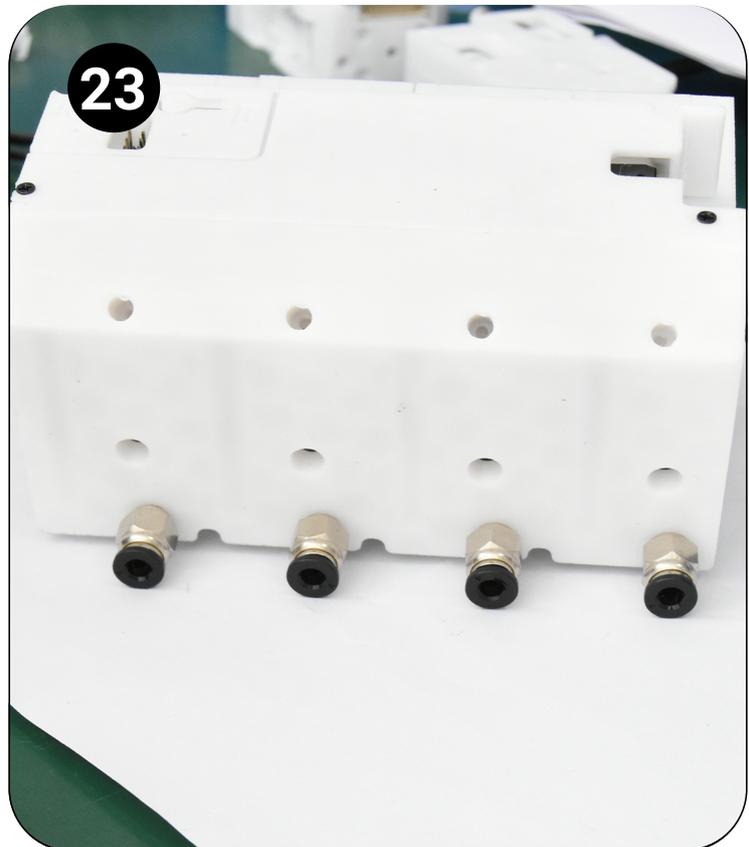
Install the Front Cover: Fasten the front cover and the rear cover with screws. Perform a test after installation.

22



Install the Base.

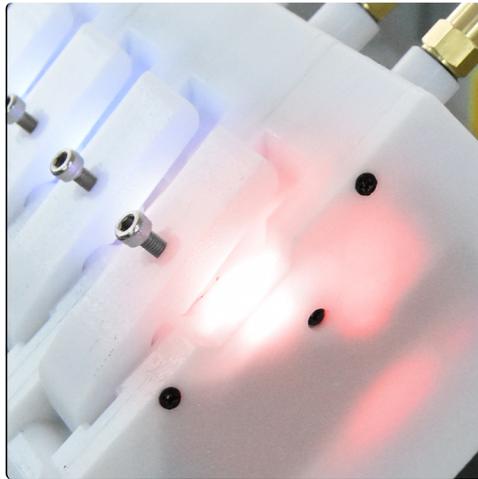
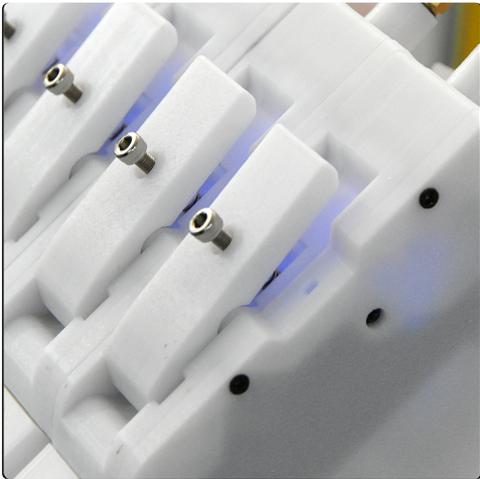
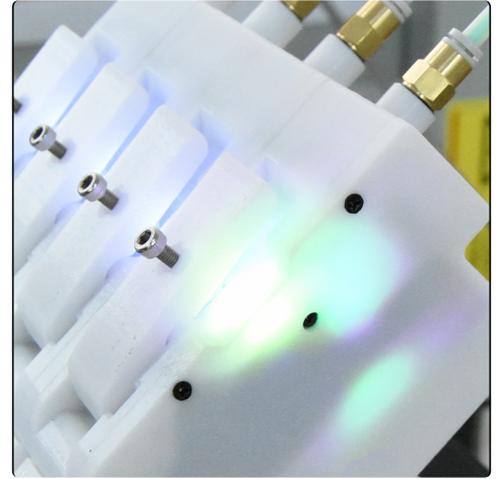
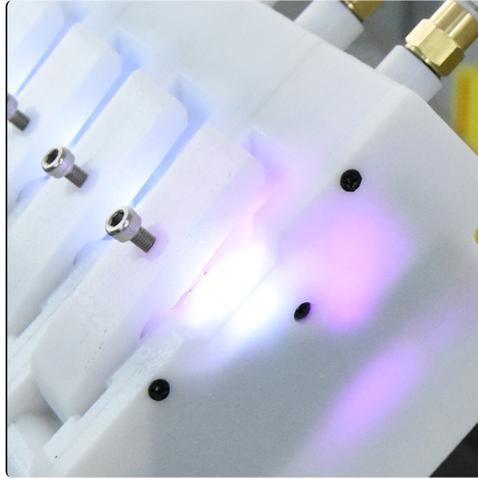
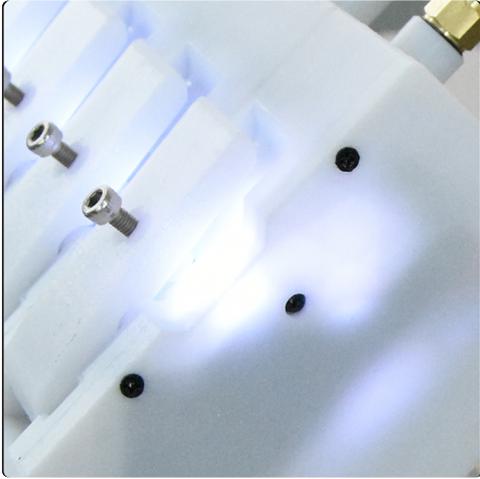
23



Install the Rear Cover.

Test the BMCU

The BMCU will display different light for different usage scenarios:



○ White Light: Selected working state / Successful feeding

○ Purple Light: During filament retraction

○ Green Light: During feeding

○ Blue Light: Standby state

● Red Light: No Radial magnet

Troubleshooting:

Check the installation of the radial magnet and the welding of the AS5600.