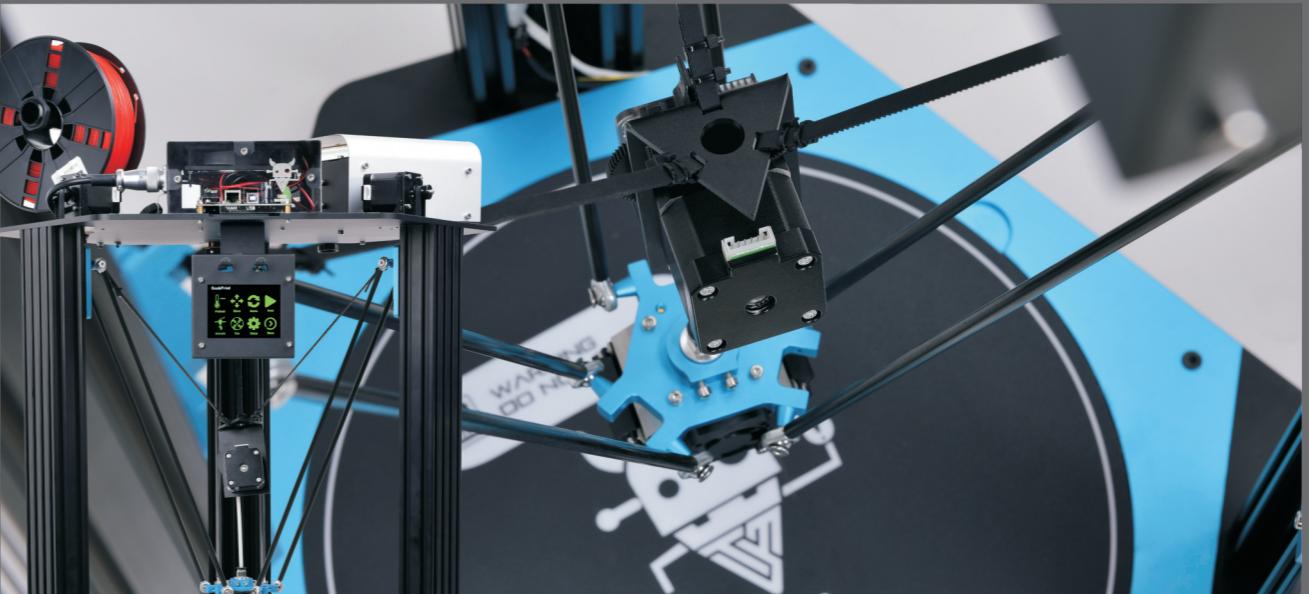




TEVO

Customer's satisfaction is our eternal pursuit



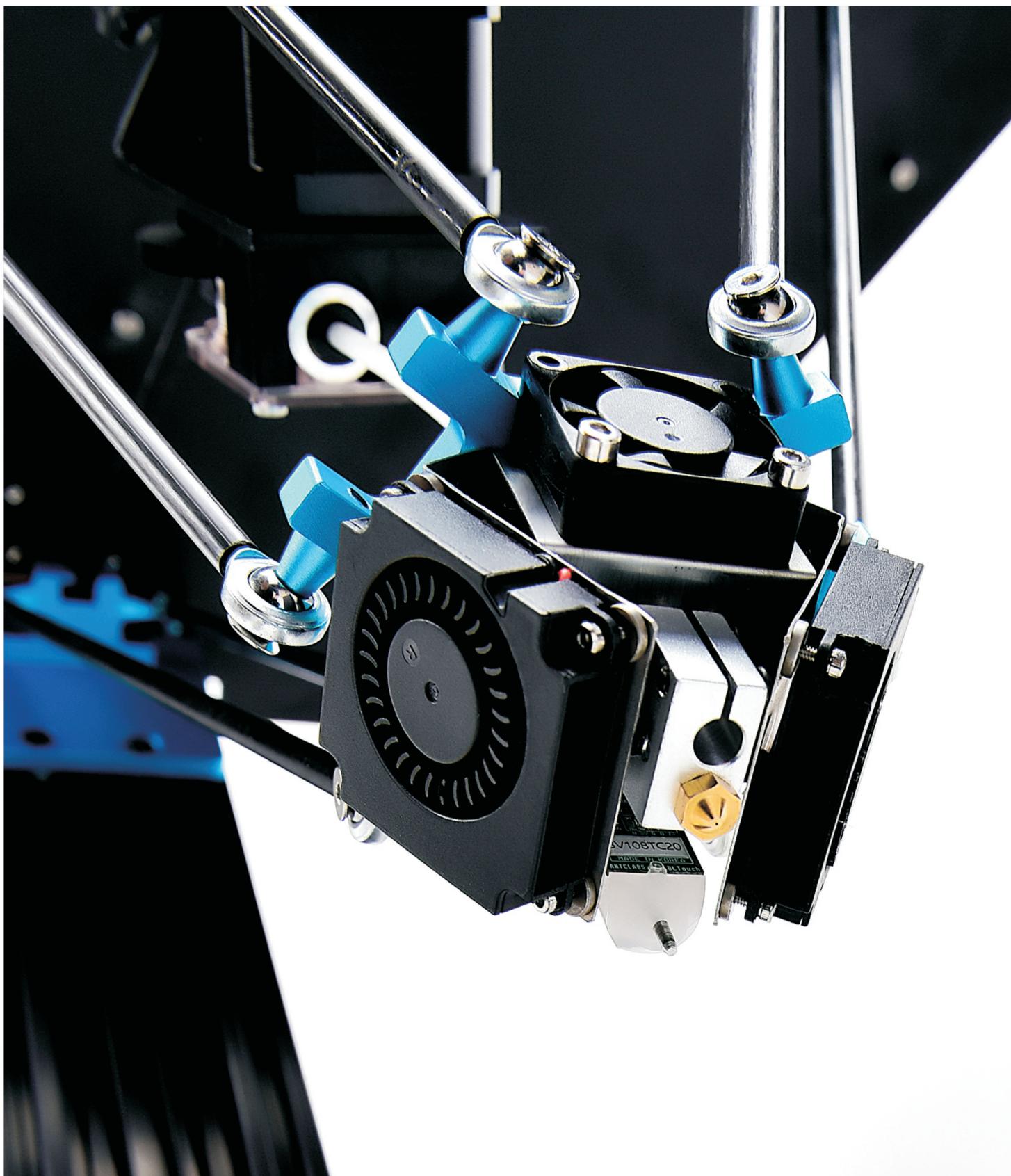
INSTRUCTION MANUAL

There is no perfect machine, only you can make it perfect.

You give it a variety of smart power,

Let its take you

Travel 3D print world



READ ME FIRST!

READ THIS MANUAL COMPLETELY BEFORE ASSEMBLING AND POWERING UP YOUR PRINTER!

Hazards and Warnings

The TEVO Black Widow 3D printer has motorized and heated parts. When the printer is in operation always be aware of possible hazards.

Electric Shock Hazard

Never open the electronics bay of the printer while the printer is powered on. Before removing the access door, always power down the printer and unplug the AC line cord.

Burn Hazard

Never touch the extruder nozzle, heater block, or the heated bed without first turning off the hot end (or heated bed) and allowing it to completely cool down. The hot end (or heated bed) can take up to twenty minutes to completely cool down. Also, never touch recently extruded filament. The filament can stick to your skin and cause burns.

Fire Hazard

Never place flammable materials or liquids on or near the printer when powered on or in operation. Liquid acetone and vapors are extremely flammable.

Pinch Hazard

When the printer is in operation, be careful never to put your fingers in the moving parts, including the belts, pulley, gears, wheels or leadscrew.

Static Charge

Make sure to ground yourself before touching the printer, especially the electronics. Electrostatic charges can damage electronic components. To ground yourself, touch a grounded source.

Age Warning

For users under the age of 18, adult supervision is recommended. Beware of choking hazards around children.

CONTENTS



1-13 Printer Assembly	15-18 LCD Display Setting
14 Circuit Connection	19-22 Slice Software Setting



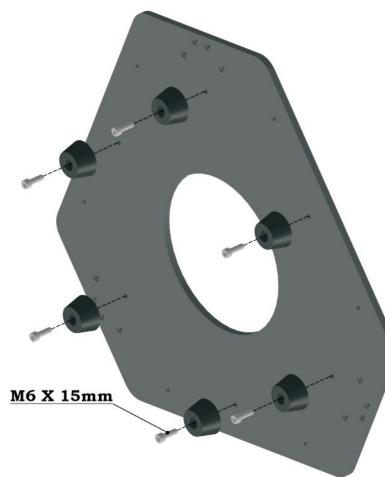
TEVO LITTLE MONSTER



1

TEVO 3D Electronic Technology Co.,Ltd.

ASSEMBLY BAG B-3-1



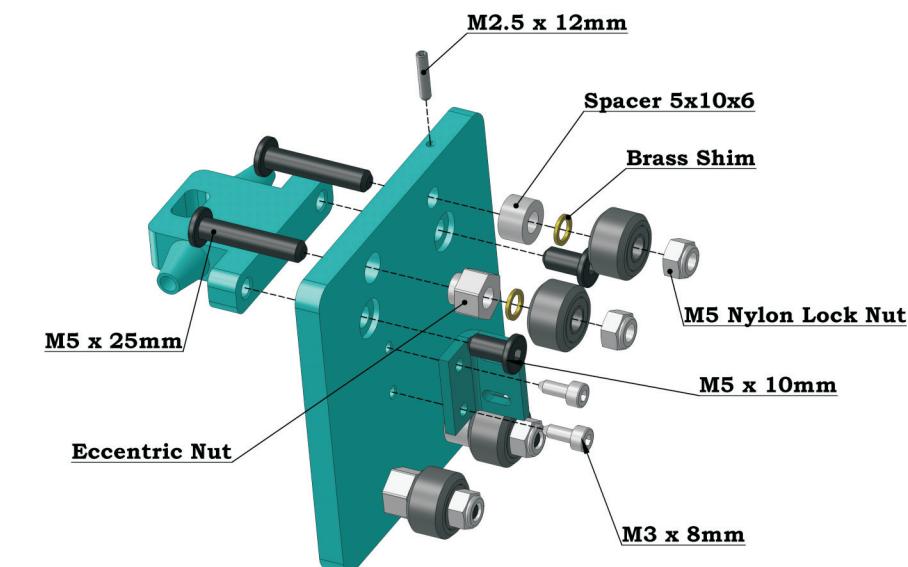
ATTENTION

Please REMOVE the BLUE plate (including hotbed) from BLACK plate before installation.

- M6 x 15mm - 6
- Rubber Stand - 6

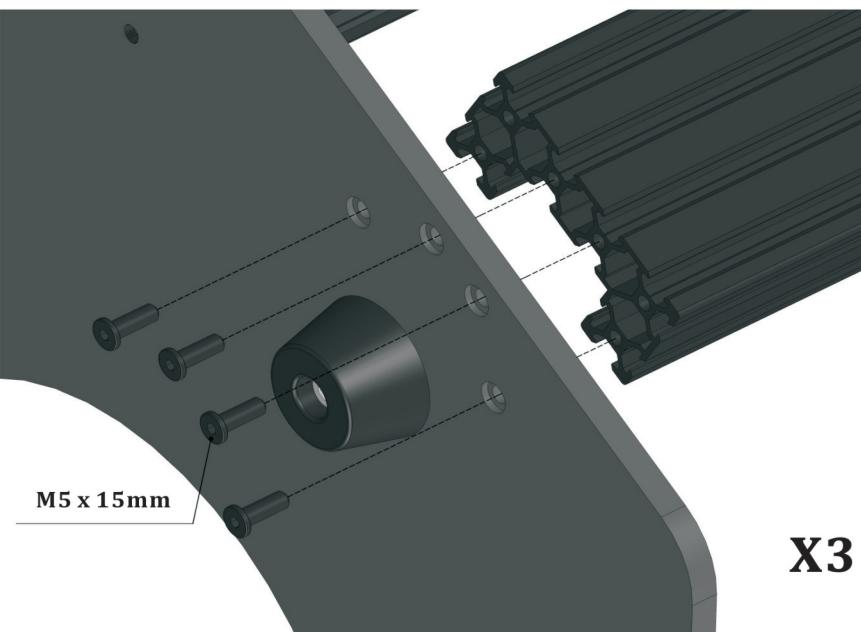
BAG A-10

Pre-Assembled



X3

BAG A-2-2



- M5 x 15mm - 12
- Extrusion 4080 - 3
- Base Plate - 1

X3



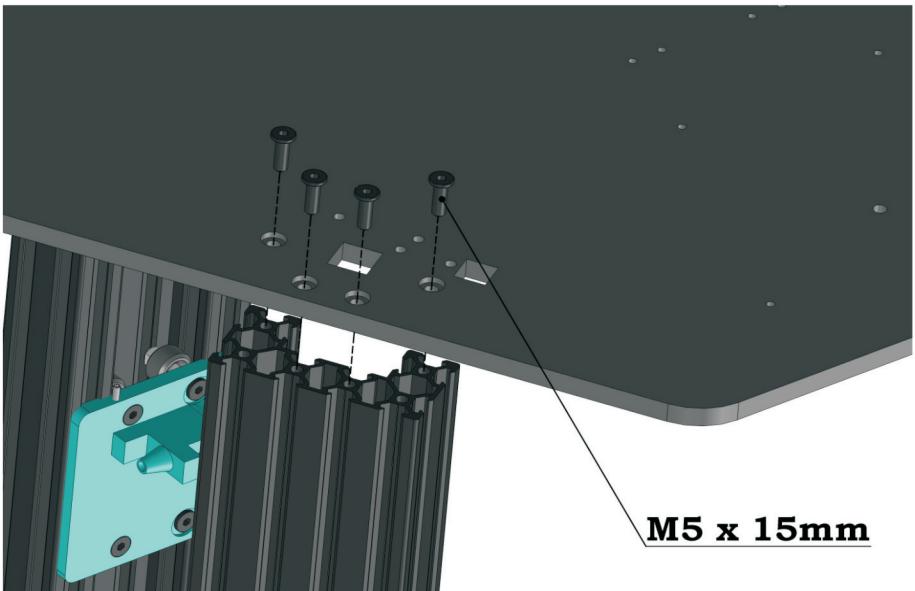
Adjust eccentric nuts to ensure slop-free smooth sliding in extrusion.

3

2

BAG A-2-2

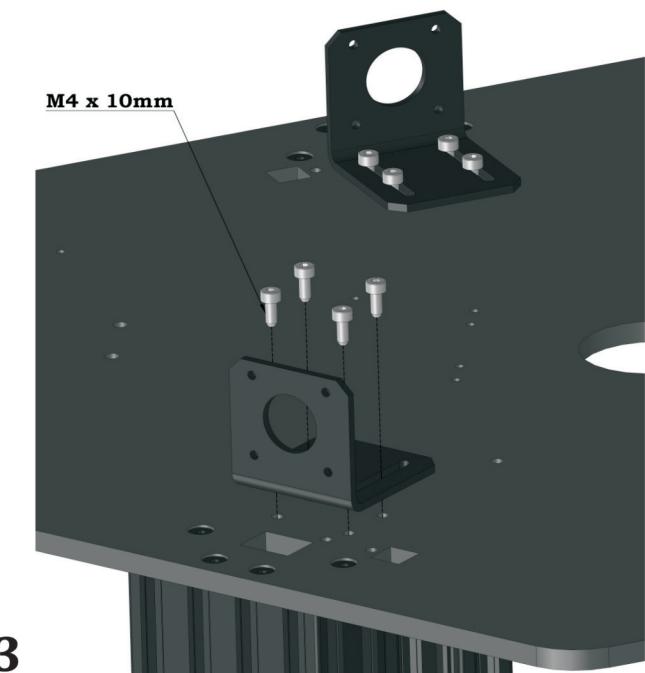
- M5 x 15mm - 12
- Top Plate - 1



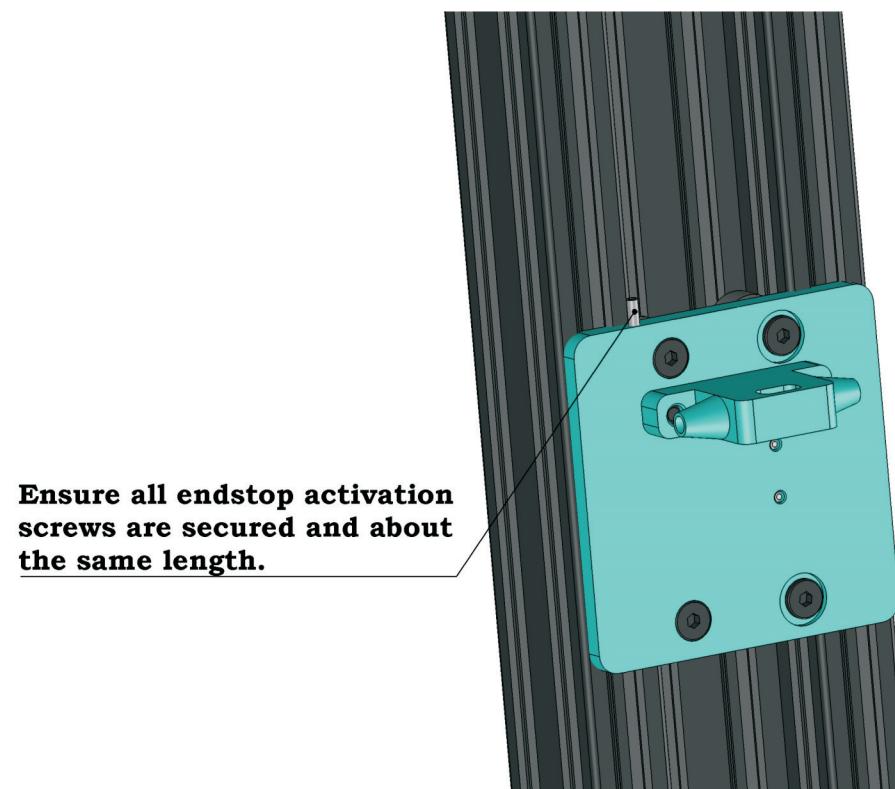
X3

BAG A-8

- M4 x 10mm - 12
- Motor bracket - 3

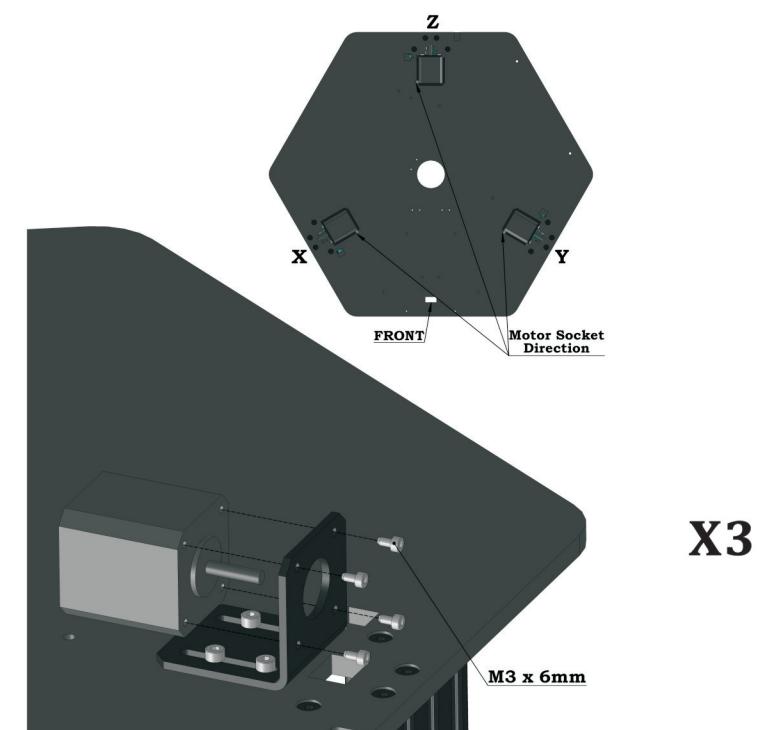


X3



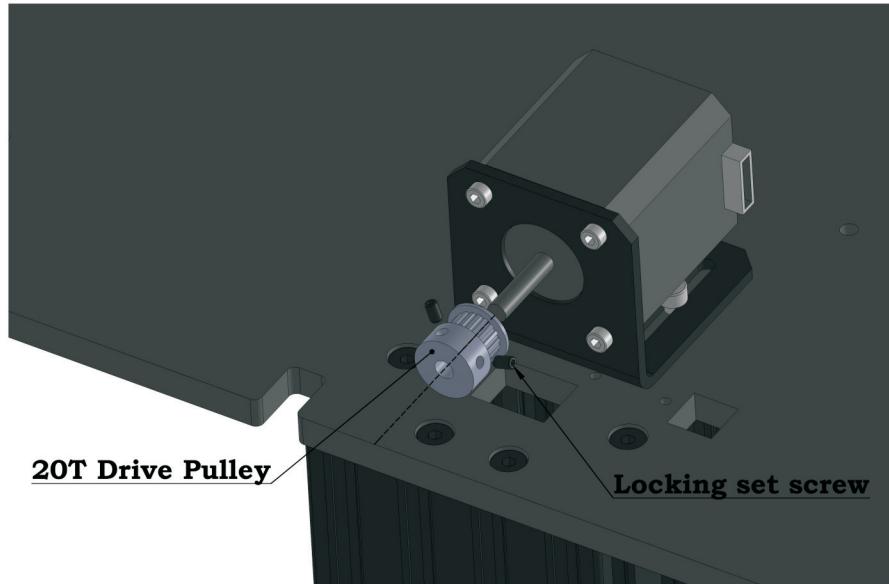
4

- M3 x 6mm - 12
- 20T Pulley - 3

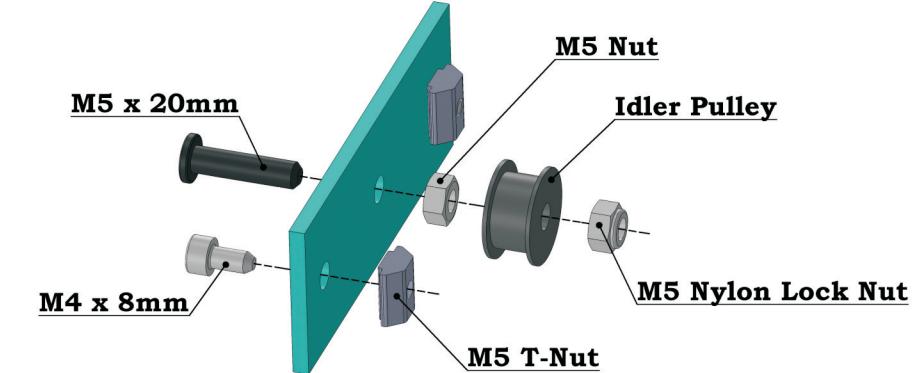


5

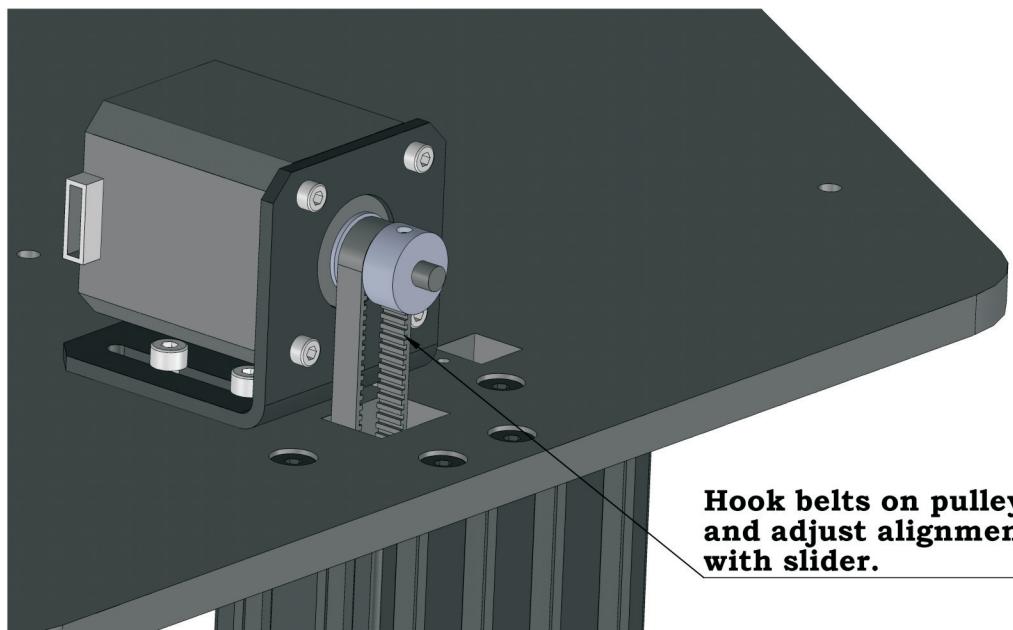
BAG A-2-1



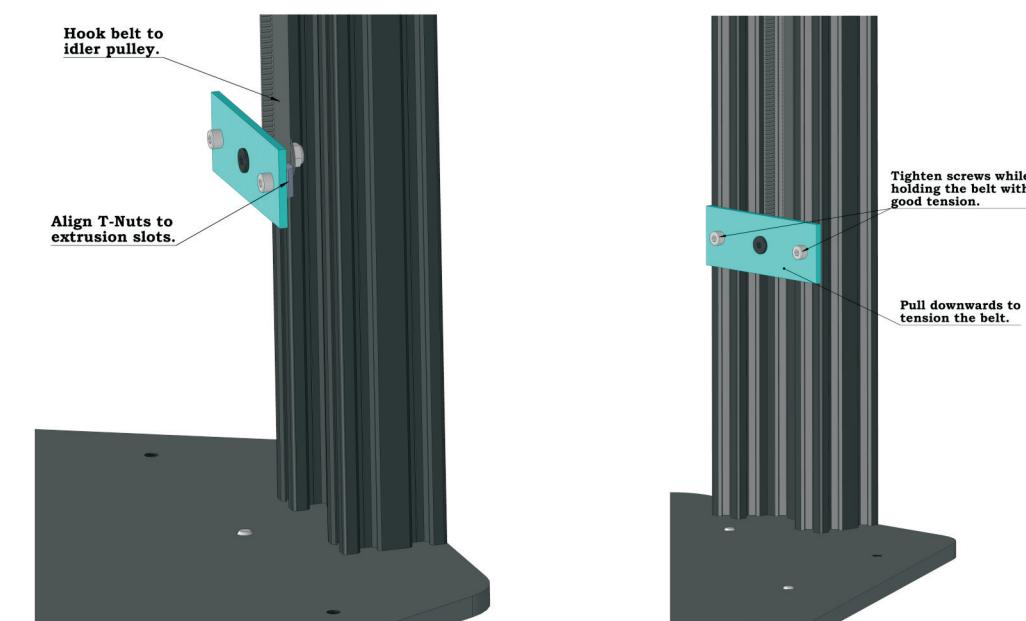
X3



Tips: Tighten the M5 nut fully and screw the M5 lock nut barely touching the idle pulley, make sure the idle pulley can spin freely.



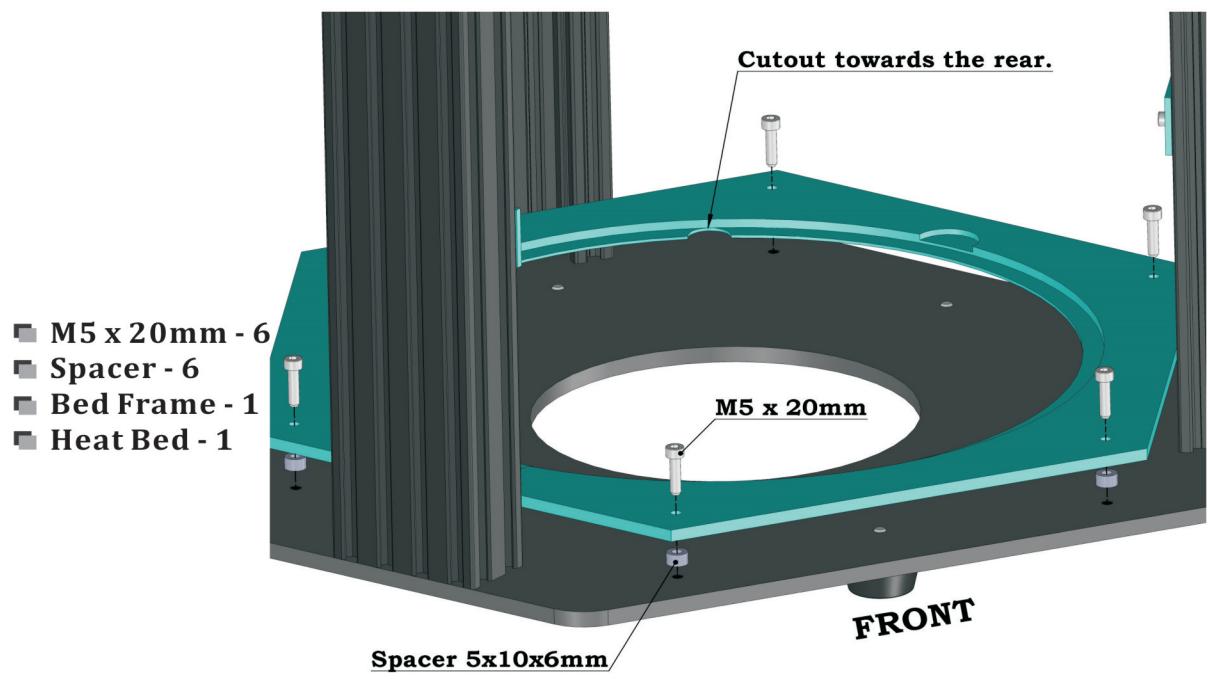
X3



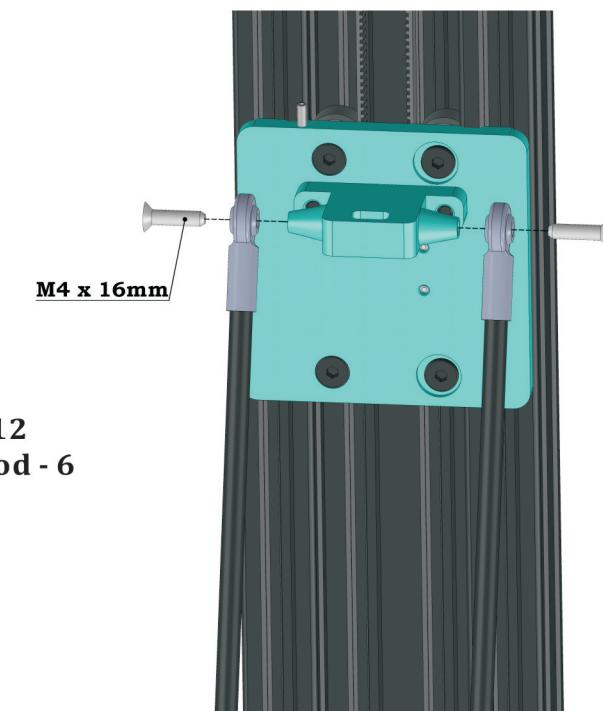
6

7

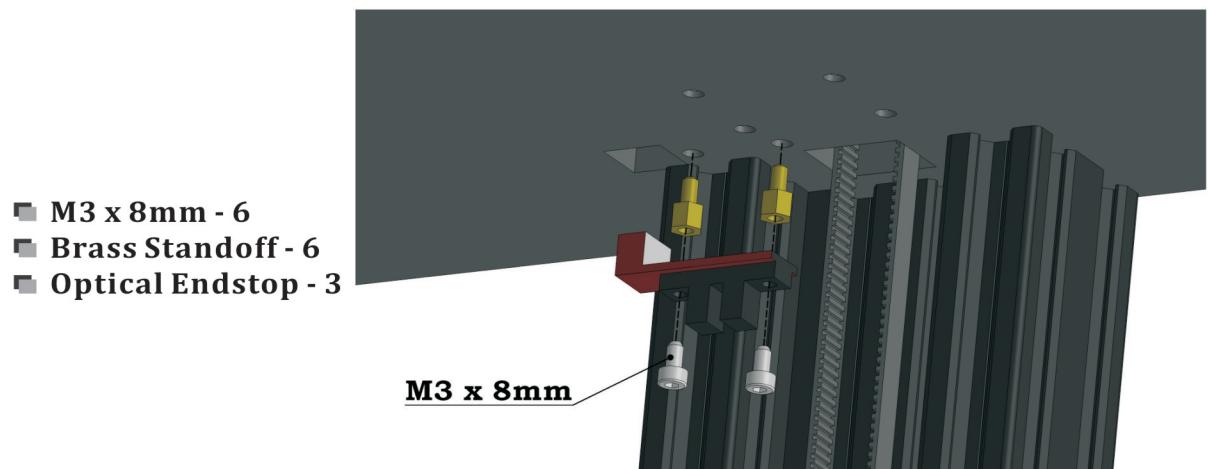
BAG B-3-2



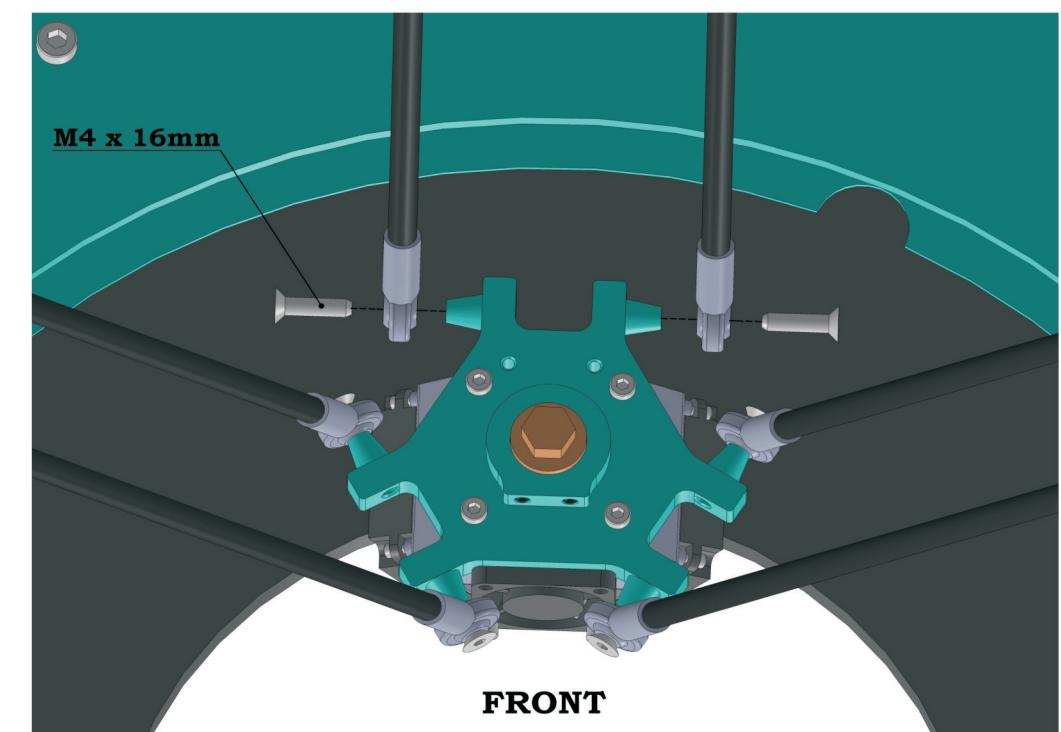
BAG A-7



BAG A-9-1

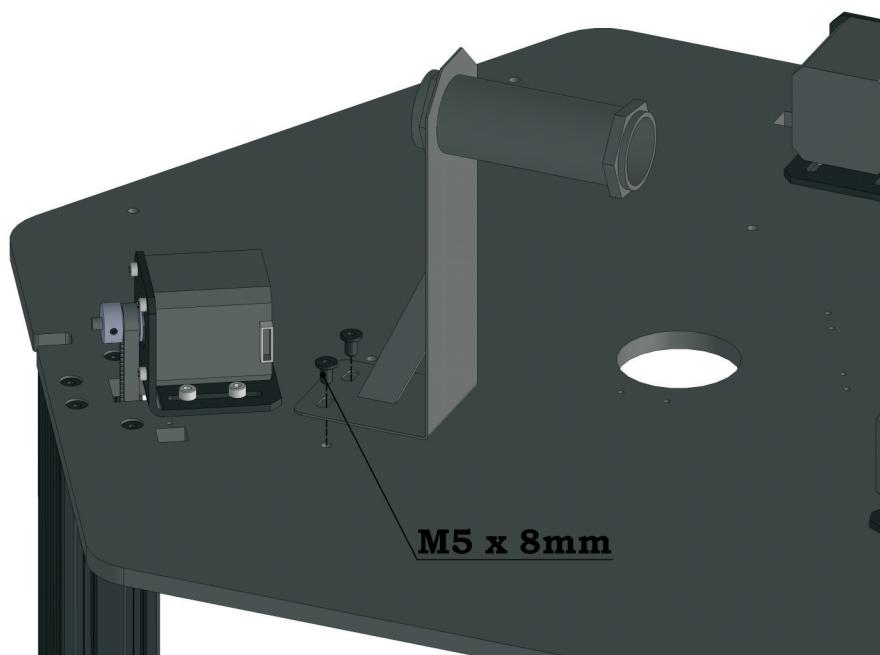
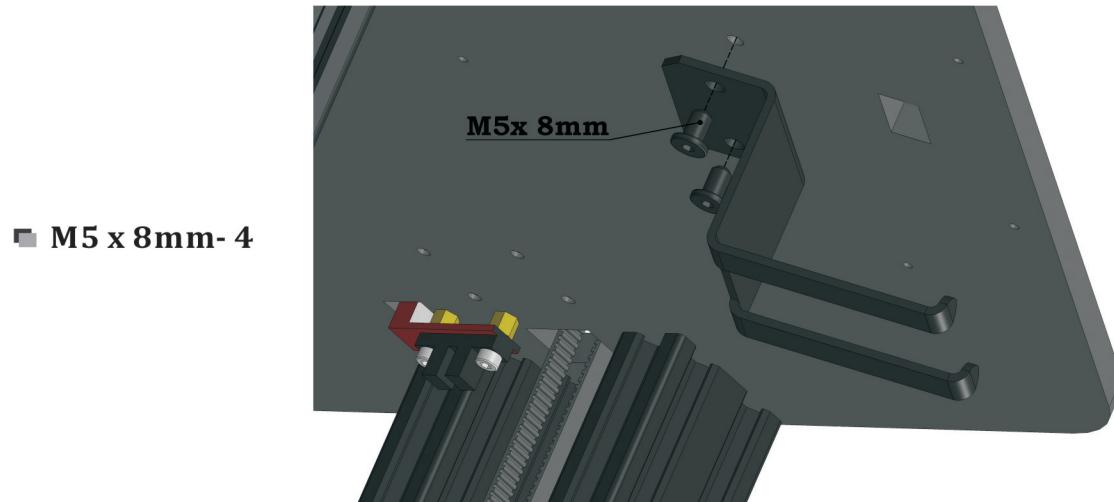


X3



9

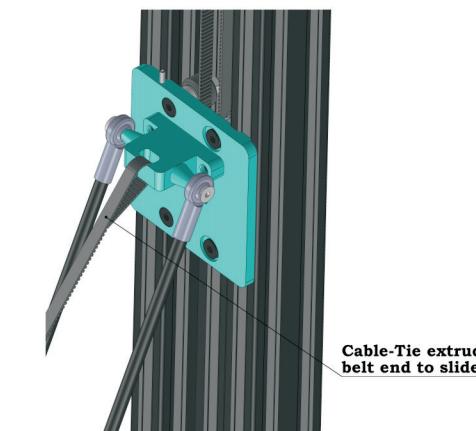
BAG A-1



BAG A-13



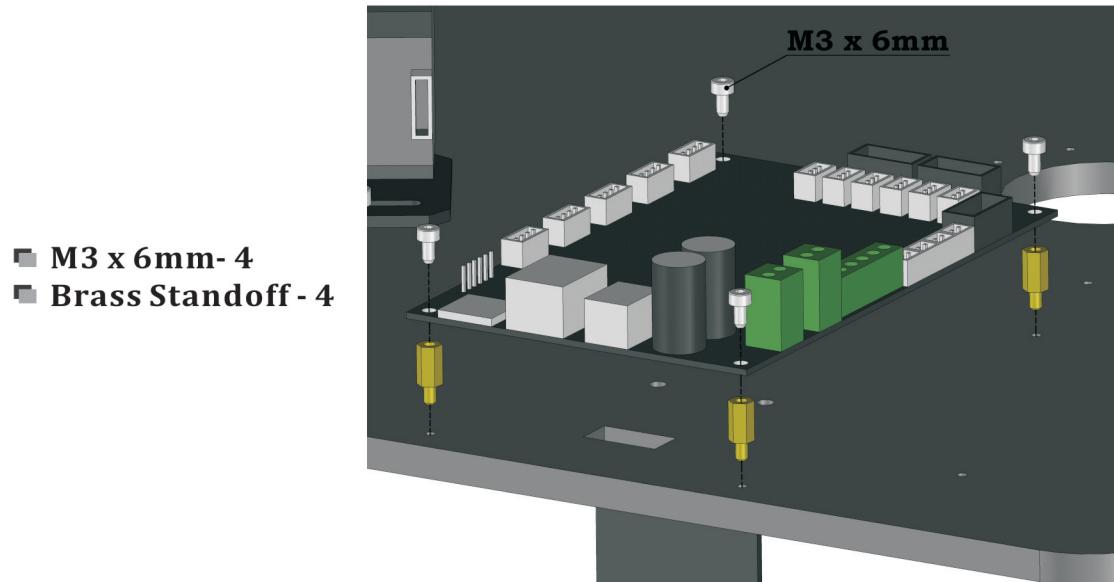
Tips: Pre-cut PTFE tube to about 150mm, insert top end into extruder and bottom end into hotend making sure it is FULLY inserted.



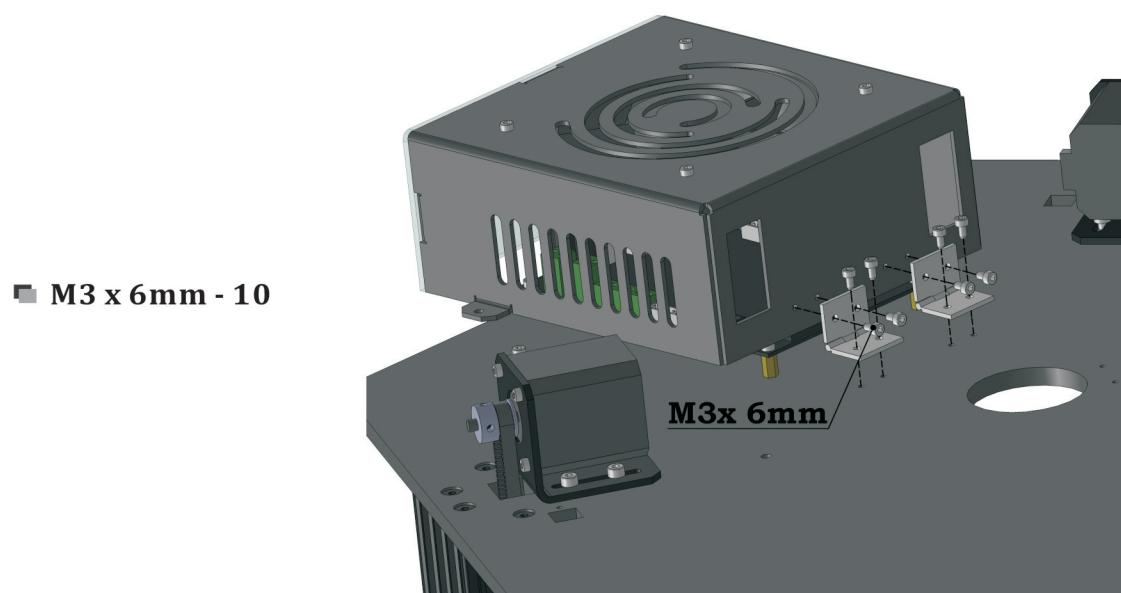
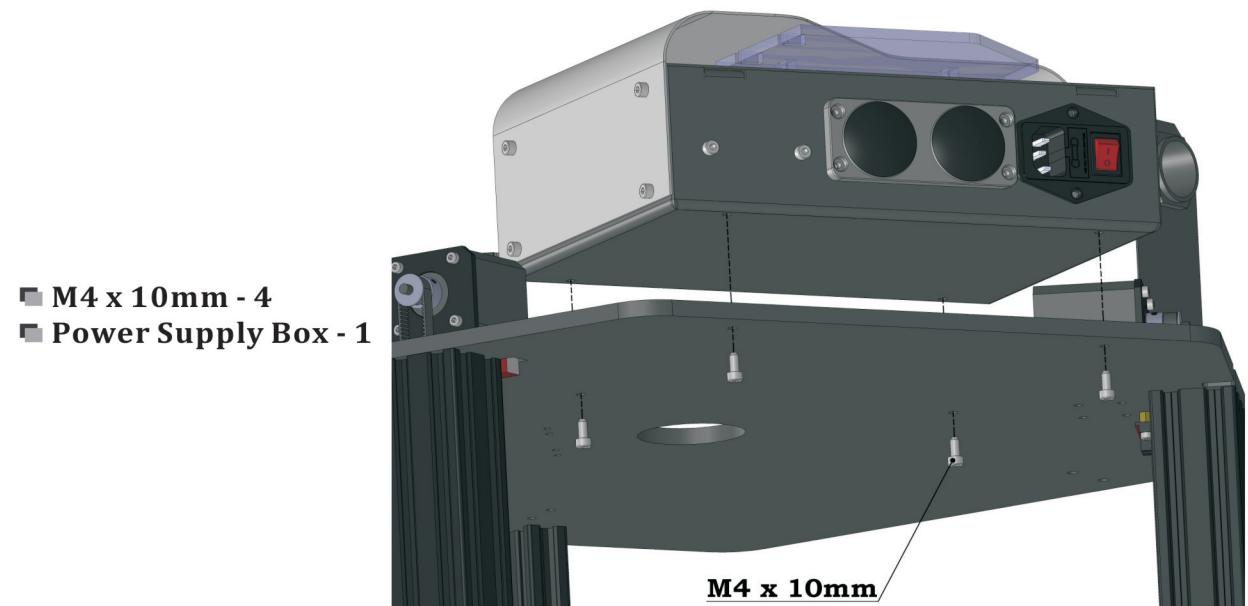
Tips: Leave some slacks on the extruder belts, check and make sure they are not pulled too tight when hotend moves to the outer edge of printing area. Use the belt springs to take up the slacks on the belts.



BAG A-3



BAG A-4

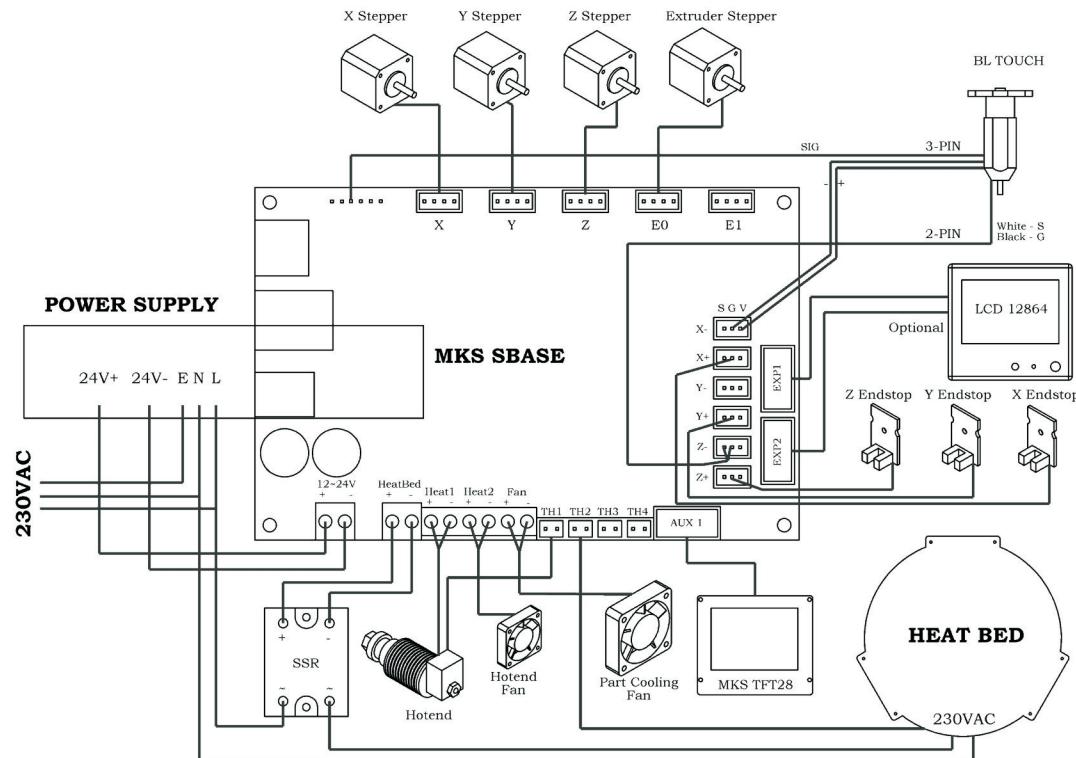


BAG A-5

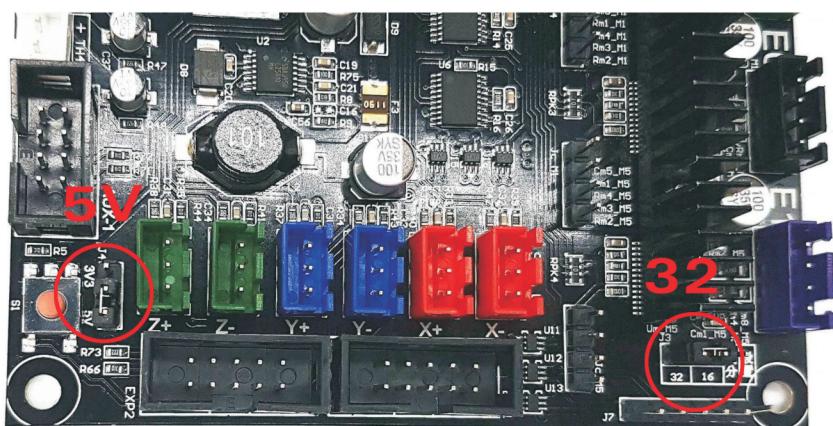


Tips: Connect touch-screen ribbon cable to Aux 1 of main control board. Run the ribbon cable through the rectangular cutout at the bottom of the control board.

ELECTRICAL WIRING

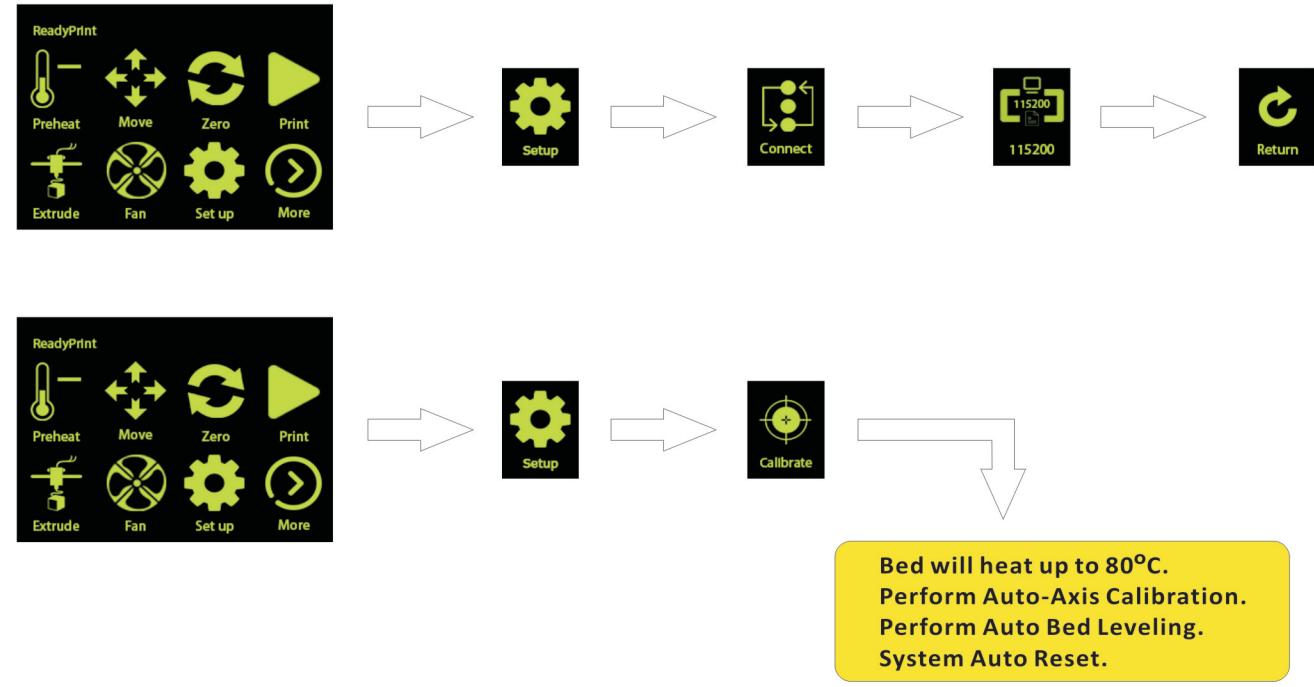


- 1. Connect the 4-pins cable sockets from Power Supply box to Main Control Board box.
- 2. Connect the 2-pins cable sockets from Power Supply box to Heat Bed connector.
- 3. Connect the 2-pins white thermistor cable from SBASE TH2 to Heat Bed.
- 4. Connect all connectors on the effector according to the labels.
- 5. T-Flash card MUST be slotted in the mainboard permanently.
- 6. Mainboard jumpers' settings: 5V & 32steps/mm.



14

FIRST POWER ON & AUTO-CALIBRATION



IMPORTANT!!

Press  only ONCE and WAIT.

There will not be any movement of the sliders at the beginning of the Auto-Calibration sequence.

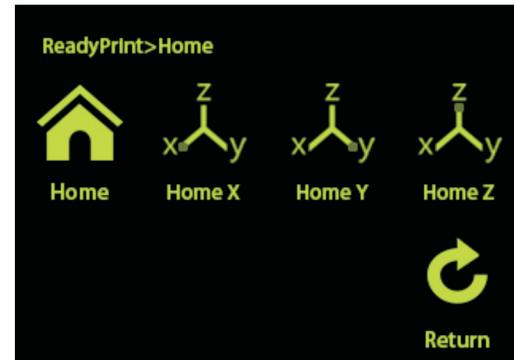
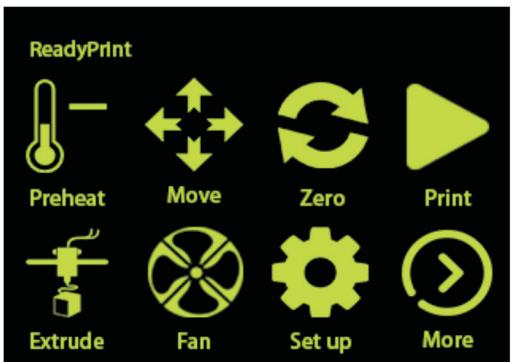
Below steps will happen:

1. BLTouch pin will come down, red led off on BLTouch.
2. Heat bed will start to heat up to 80°C, red led on power supply box will light up to indicate the heat bed is heating.
3. Once heat bed target temp reached, axis will auto-home.
4. Perform endstop trimming and delta radius.
5. Perform print bed grid auto-leveling.
6. Home all axis.
7. Auto-Save all calibration settings and main control board will reset.

15

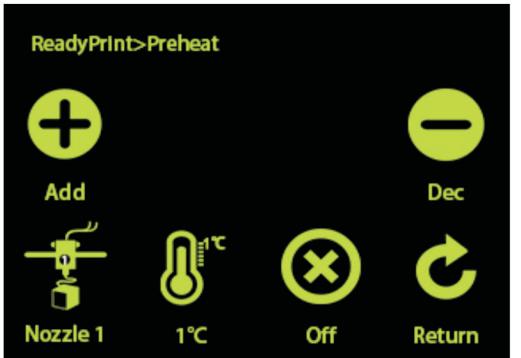
TOUCH SCREEN OPERATIONS

■ MAIN MENU

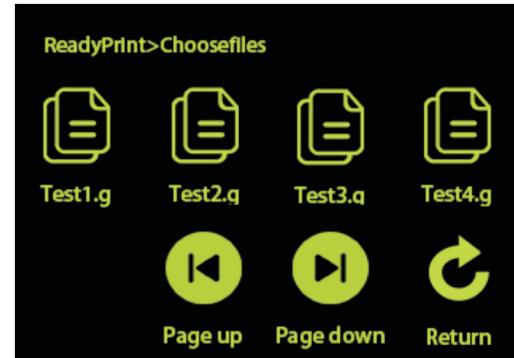


Manual homing of all axis

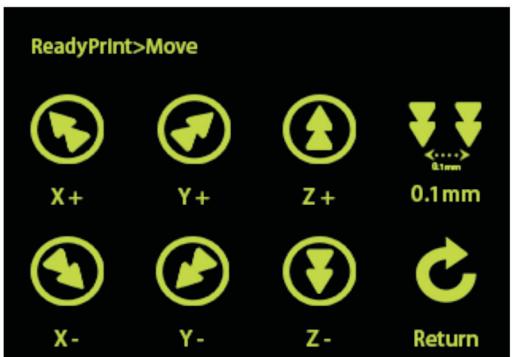
■ SUB MENU



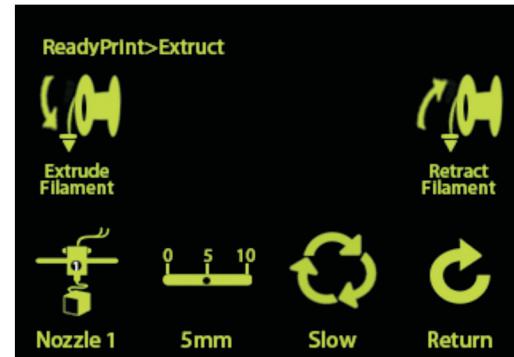
Manual heat control of hotend & heat bed temperatures.



Printing file selections

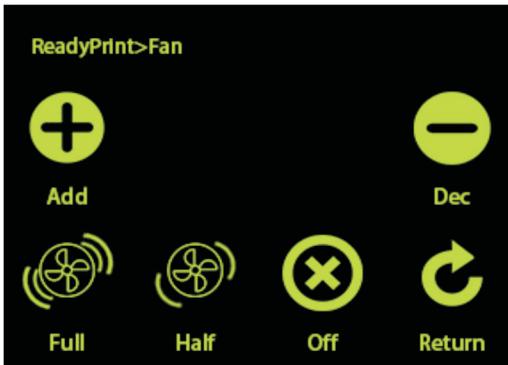


Manual movements of all X,Y,Z axis



Manual filament extrusion & retract

REPETIER HOST SETUP



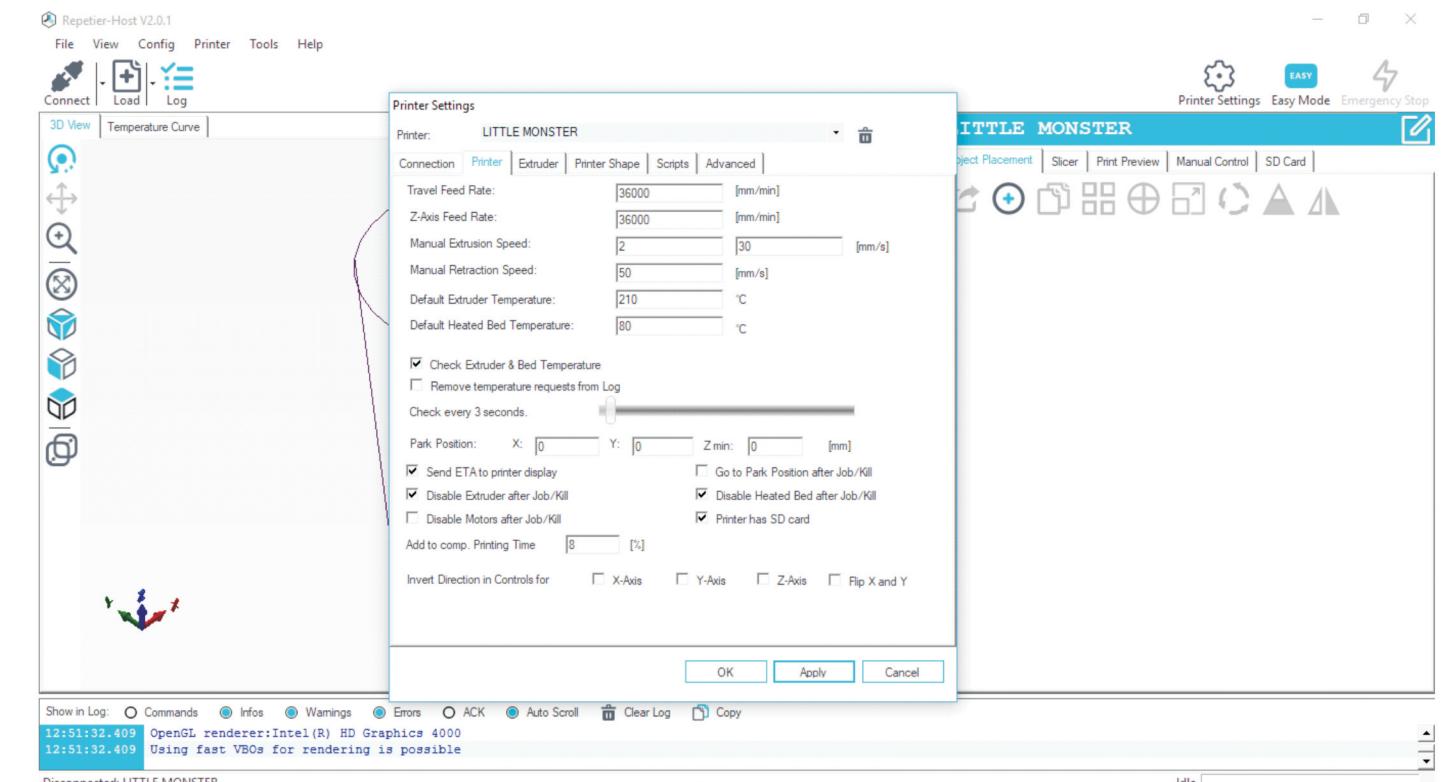
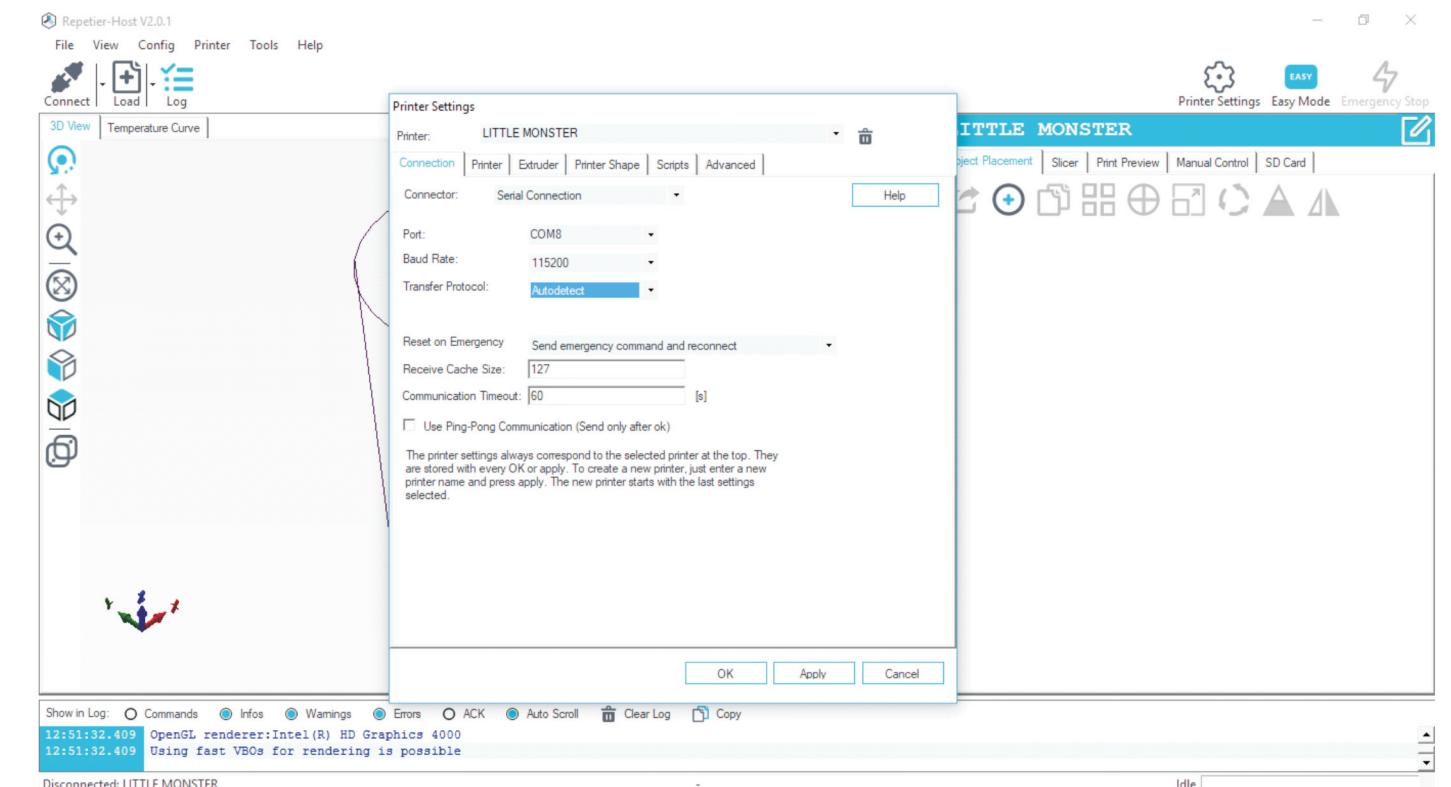
Part cooling fan manual control

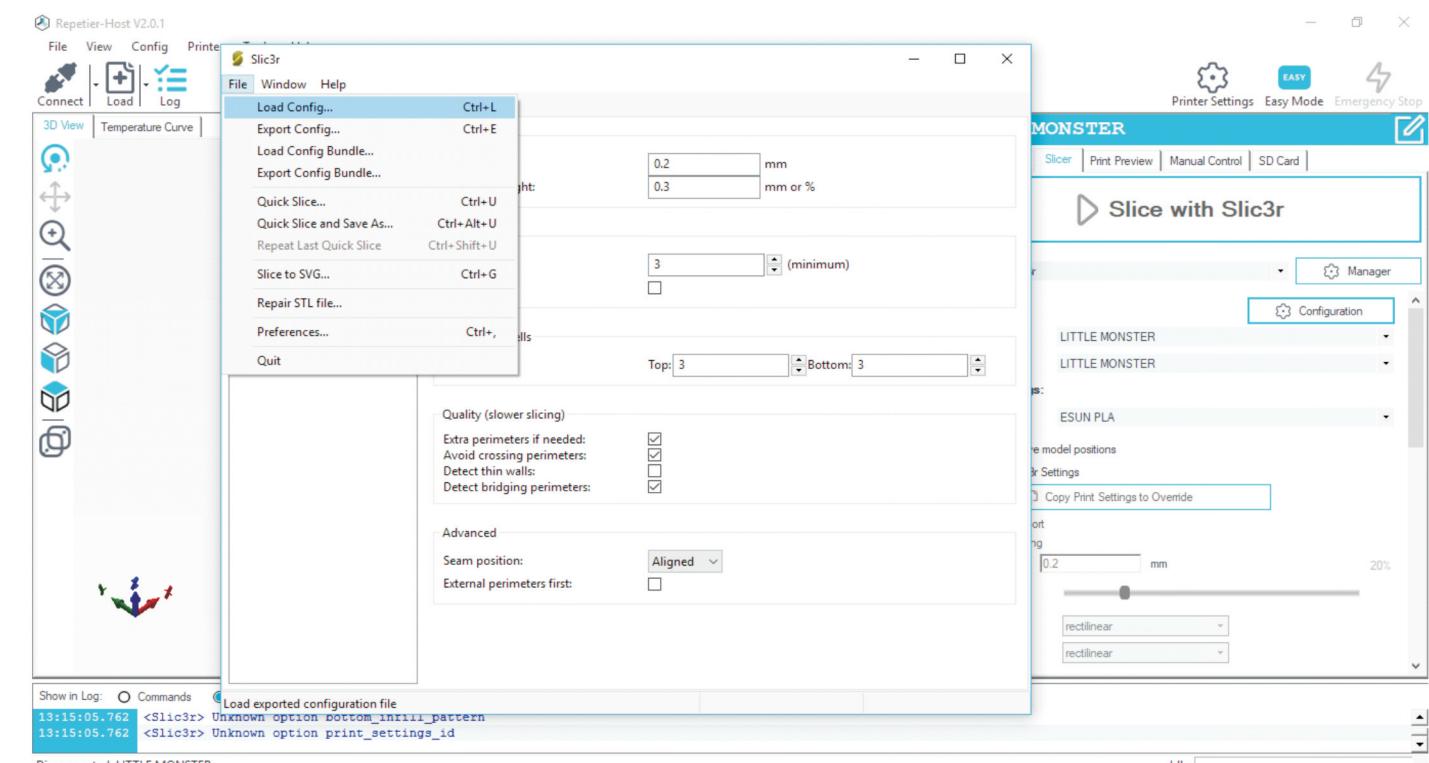
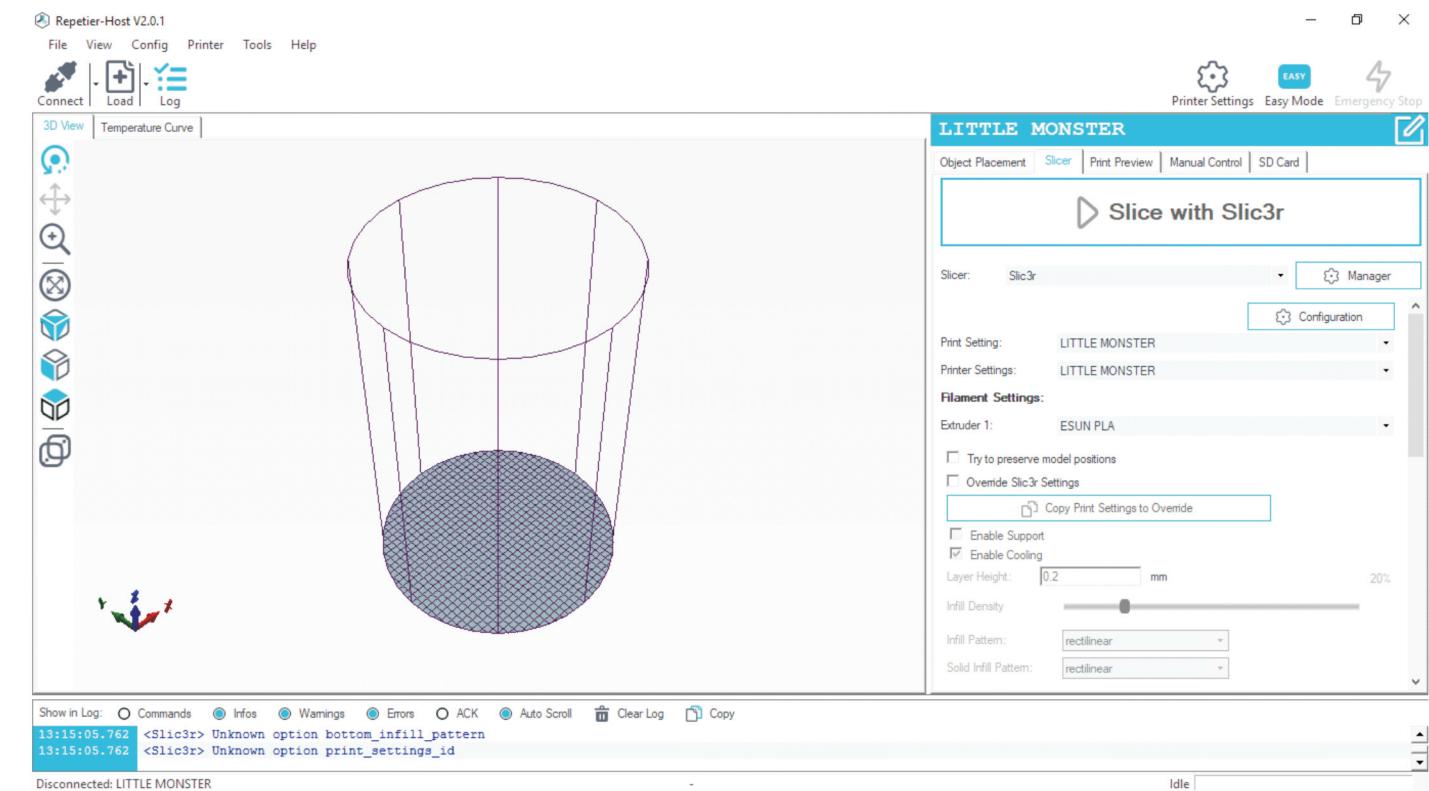
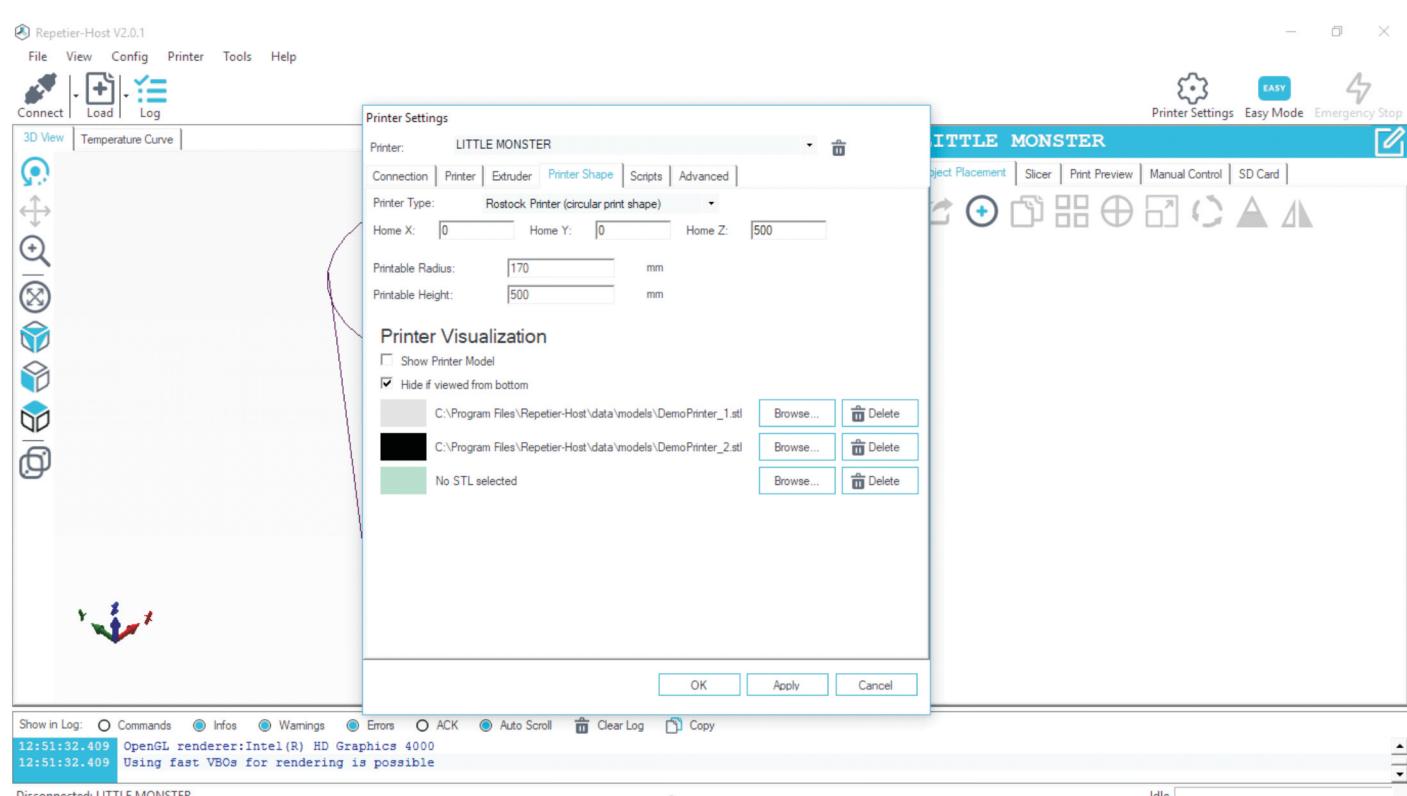
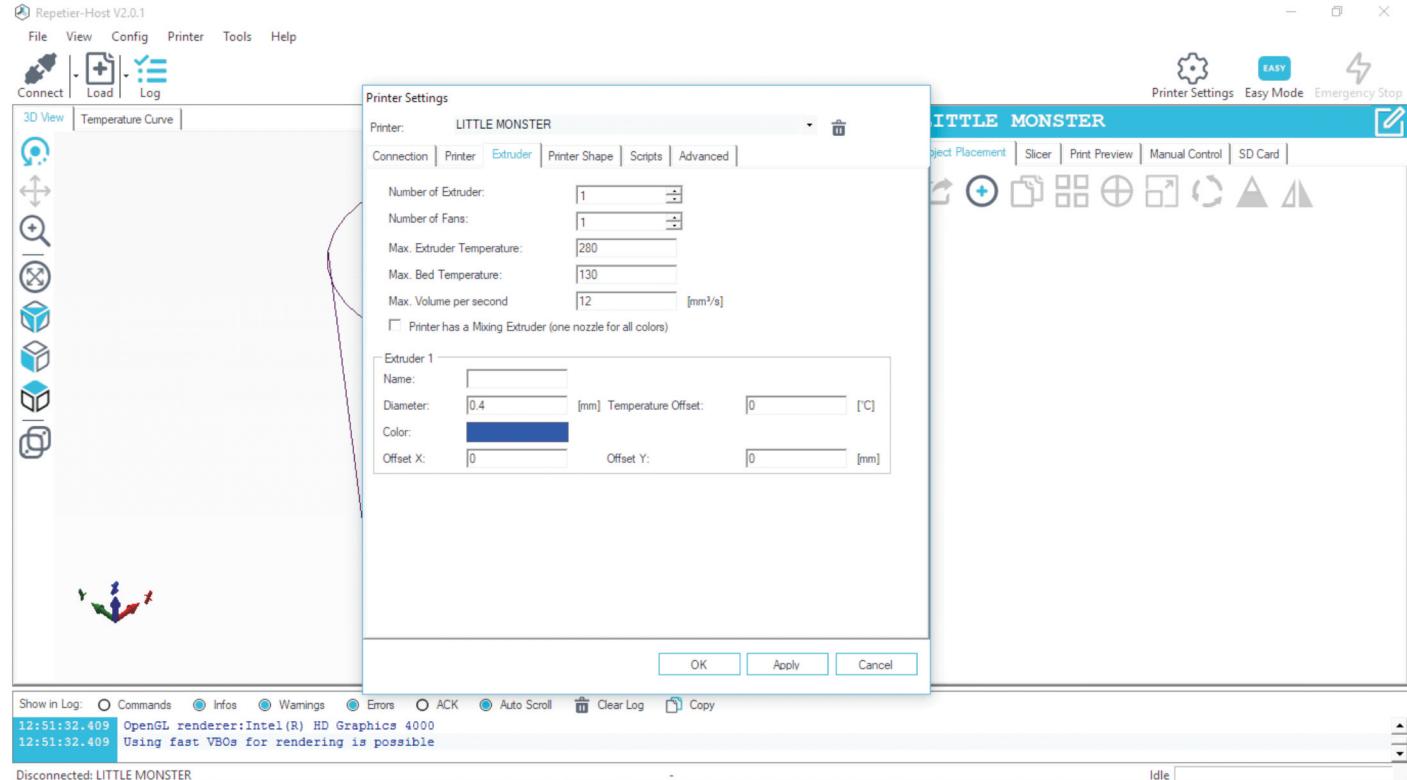


Setup & Special functions



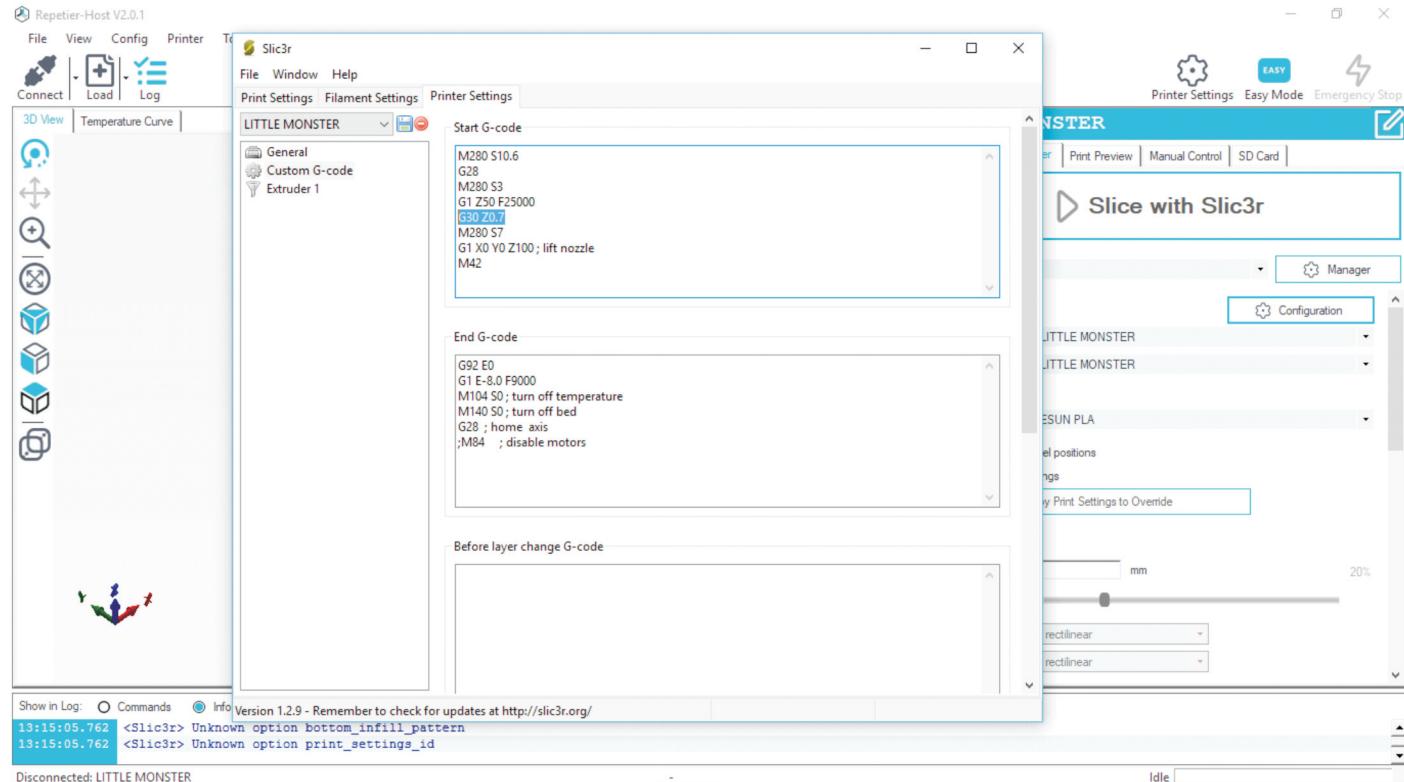
Additional functions





FIRST LAYER Print Height Adjustment

Printing Size



In Configuration-Printer Settings:

Reference Start G-code and ending G-code for printing.

G30 Z0.7 indicate BLTouch trigger point is 0.7mm below nozzle tip

Please adjust this value according to the first layer print result.

Increase this value will lower nozzle closer to bed. (Example: G30 Z0.7 to G30 Z0.9)

Increase this value will lower nozzle closer to bed. (Example: G30 Z0.7 to G30 Z0.9)
Decrease this value will lift nozzle away from bed. (Example: G30 Z0.7 to G30 Z0.6)

It is recommended to use SD or Thumb Drive for printing instead of direct USB connection.



500mm

340mm



●.....
24

●.....
25

TEVO 3D Electronic Technology Co.,Ltd.

