MINGDA 3D Printer
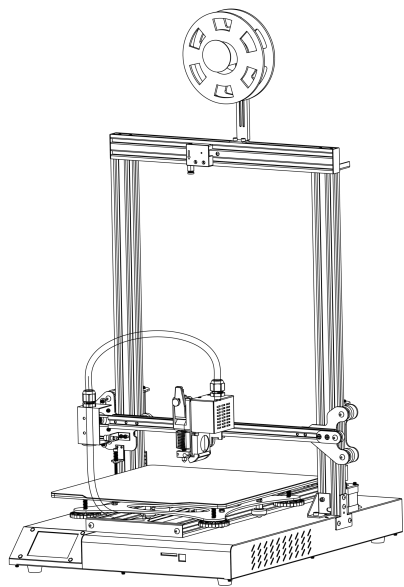# Rock 3

Fast Installation guide

The main parts of the machine

- Gantry
- Printing head
- Filament holder
- The main chassis

Toolkit

M5×12 (4pcs) M3×8 (3pcs)

M3×6 (2pcs)

M4×16 (4pcs)
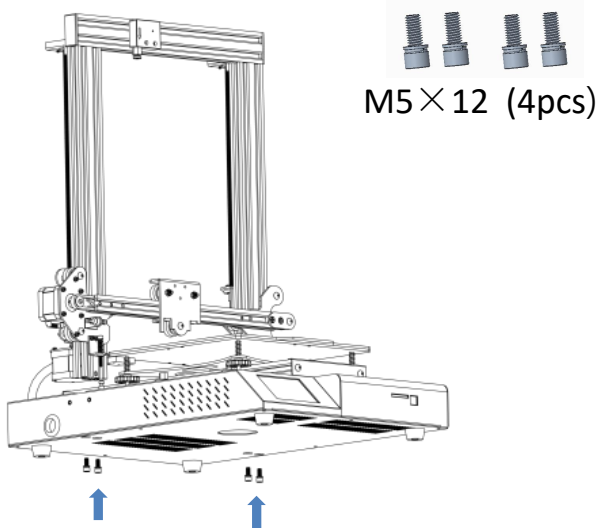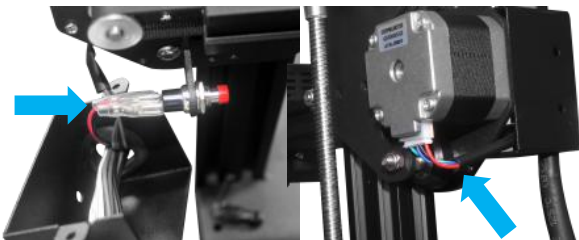
Teflon tube

M4×8 (4pcs)
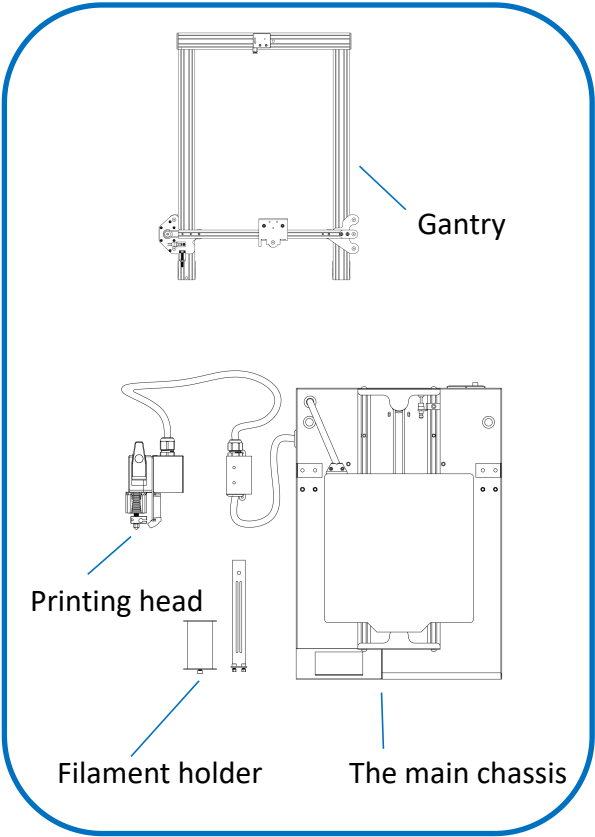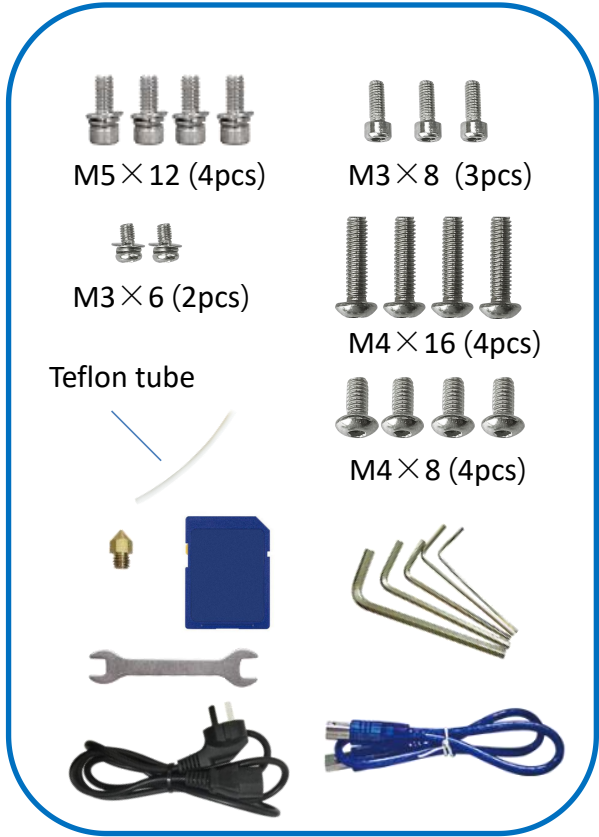
Step 1

Install the gantry

> Note: In order to avoid bending the leading scew and affecting the printing effect, don't touch or twist the leading screw at will when taking out the gantry.
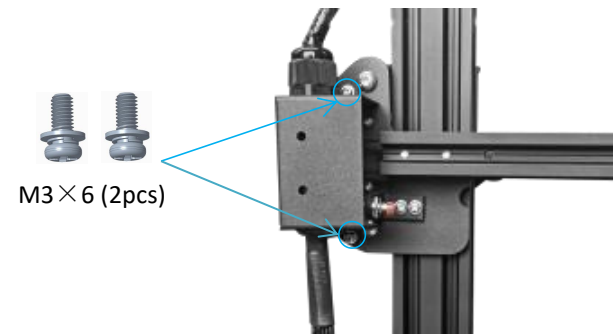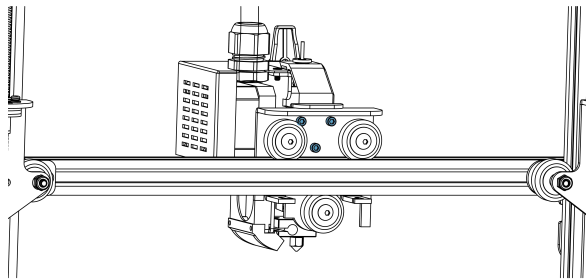

M5×12 (4pcs)

Step 2

Install motor cover

Insert X limit port and X motor port

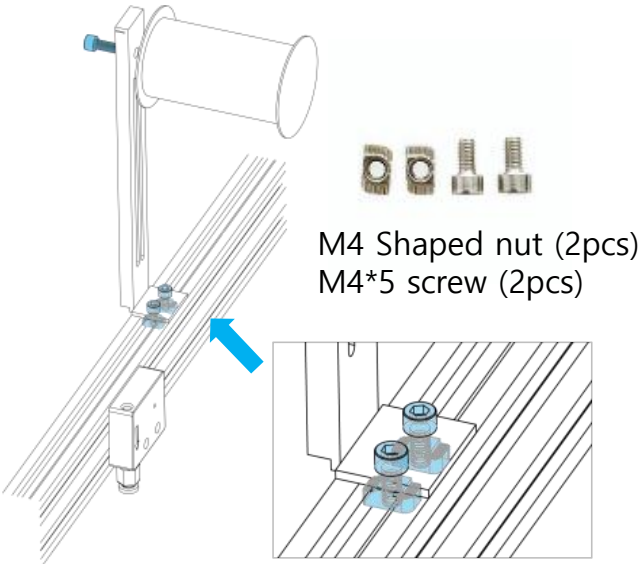M3×6 (2pcs)

Install the cover

Step 3

Install the printing head

M3×8 (3pcs)

Step 4

Install the Filament Holder

M5*12 screw (1pcs)

M4 Shaped nut (2pcs)
M4*5 screw (2pcs)

Step 5

Install T-reinforced plate

T-shaped reinforcing plate 2pcs   M4×16 (4pcs)   M4×8 (4pcs)

Triangular reinforcing plate2pcs   M4 Shaped nut (2pcs) M4*8 screw (2pcs)   M5×8 (4pcs)
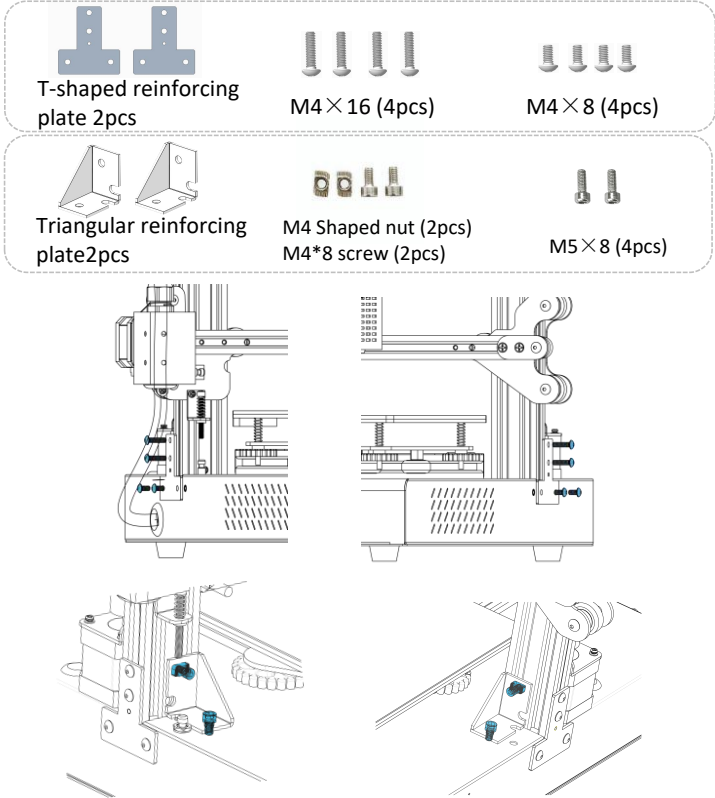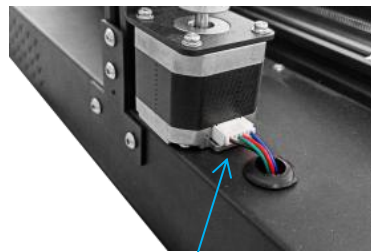
Step 6

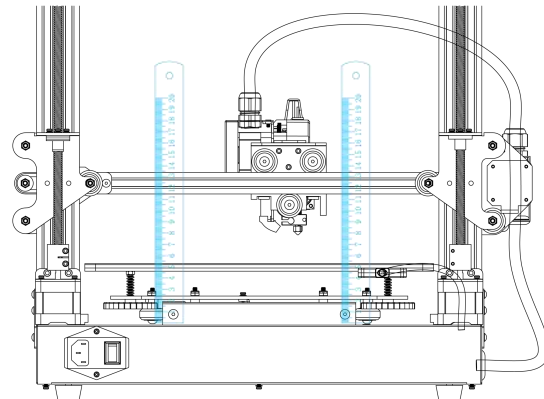## Cable connecting
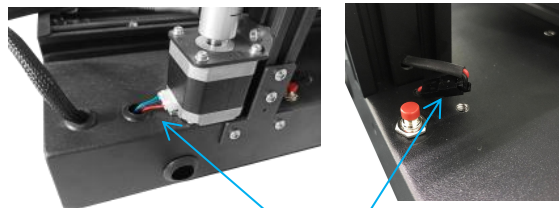
Z motor 1 / Filament detector

Z motor 2

Step 7

Machine Checking and Adjustment
## Adjust left and right height of X axis

Because of transportation the screw rod may be rotated, please check with a ruler. If there is an error, you can turn the coupling to adjust the height of one side until it is the same height as the other side.

# Step 8

Adjust the wheels

Adjust the tension of all the wheels on the machine. Try to turn the wheels without forcing them. If the wheel turns freely or without much effort, then it is too loose. To tighten the wheels, rotate the eccentric nuts slightly until the wheel is snug against the frame
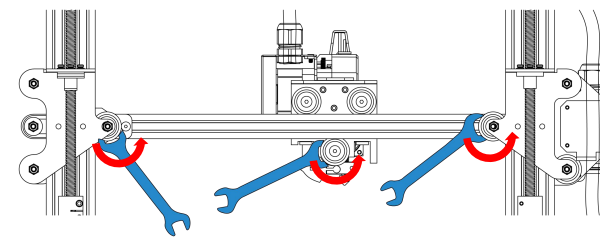
Step 9

Adjust platform wheels

Similarly, please check the platform. If necessary, do as step 8.
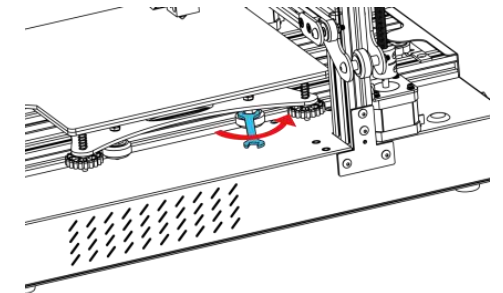
Step 10

Leveling and printing

Plug in the power cord and turn on the power.


Manual leveling
Ready > Menu > Home

1.Choose Home [icon], Click [X] to stop moving and prevent the nozzle hit the platform. Then you can gently push the print head and platform let the nozzle move to the four corners and the middle position of the platform, observe the gap between the nozzle and the hot bed at any time.

2. The gap requirement is about 0.1mm. You can take out the leveling paper comes with the platform and insert it between the nozzle and the printing platform, and push the printing head to the four corners and the center of the platform, at the same time adjust the four fine-tuning nuts to ensure that the paper can be moved with resistance but not scratched.

3. If you want to add a glass or other material plate on the hot bed, you can adjust the limit block position, and adjust the platform level again..
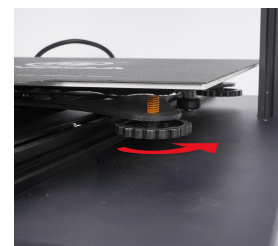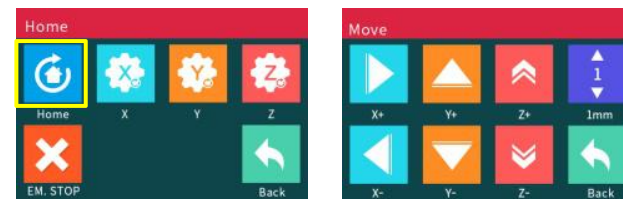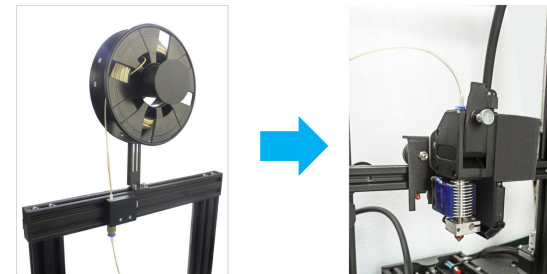

Preheat the nozzle temperature to 200℃
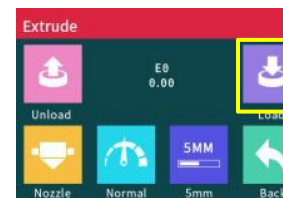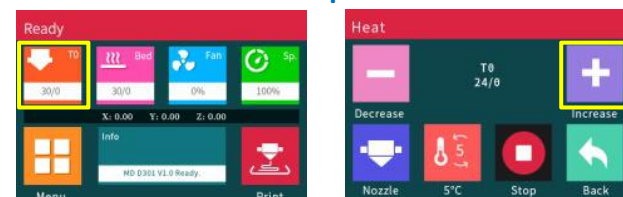
Extrude

Note：Click Load to feed the material, and we suggest that don't click Upload to pull the filament because it may make the extruder be blocked

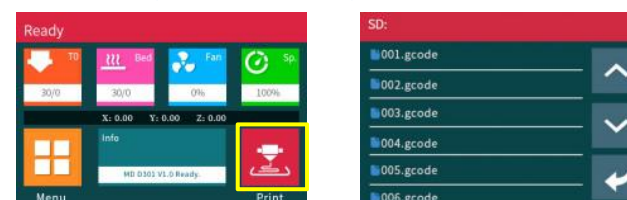### Insert the filament

Insert SD card

Select a gcode file to print

Youtube Channel   Facebook Page   Official website