



 User Manual

ANYCUBIC KOBRA MAX

Dear customer,

Thank you for choosing **ANYCUBIC** products.

Maybe you are familiar with 3D printing technology or have purchased **ANYCUBIC** printers before, but we still highly recommend that you read this manual carefully. The installation techniques and precautions in this manual can help you avoid any unnecessary damage or frustration.

Please visit <https://support.anycubic.com/> to contact us if you have any question. You can also gain more information such as software, videos, models from the website.



ANYCUBIC Support Center

Team **ANYCUBIC**

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Safety Instructions

To avoid any unnecessary damage to the printer or individual injury, please always follow the safety instructions when assembling and using the machine.



Please contact our customer service first if you have any problem after receiving the products.



Be cautious when using the scraper. Never direct the scraper towards your hand.



In case of emergency, please immediately cut off the power of Anycubic 3D printer and contact the technical support.



Anycubic 3D printer includes high speed running parts that can cause injury.



Anycubic 3D printer generates high temperature. Do not reach the printing area during operation.



It is recommended to use protection glasses when cleaning/sanding the printed models to avoid small particles in eyes.



Keep the Anycubic 3D printer and its accessories out of the reach of children.



Vapors or fumes may be irritating at operating temperature. Always use the Anycubic 3D printer in an open and well ventilated area.



Anycubic 3D printer must not be exposed to water or rain.



Anycubic 3D printer is designed to be used within ambient temperature ranging 8°C-40°C, and humidity ranging 20%-50%. Working outside those limits may result in low quality printing.



Do not disassemble Anycubic 3D printer, please contact technical support if you have any question.

Printing

| | |
|----------------------|---------------------------------------|
| Technology | FDM (Fused Deposition Modeling) |
| Build Size | 400 mm(L) × 400 mm(W) × 450 mm(H) |
| Layer Thickness | 0.05 - 0.3 mm |
| Print Accuracy | ±0.1 mm |
| Positioning Accuracy | X / Y / Z 0.0125 / 0.0125 / 0.0025 mm |
| Extruder Quantity | Single |
| Nozzle Diameter | 0.4 mm |
| Supported Materials | PLA, ABS, HIPS, TPU, Wood, etc |

Temperature

| | |
|-----------------------------------|--|
| Ambient Operating Temperature | 8 °C - 40 °C |
| Operational Extruder Temperature | Max 260 °C (suggested: 195 °C for PLA; 210 °C for TPU) |
| Operational Print Bed Temperature | Max 90 °C (suggested: 60 °C for PLA; 60 °C for TPU) |

Software

| | |
|-------------------------|---|
| Slicing Software | Cura, Simplify3D, Repetier-HOST |
| Software Input Formats | .STL, .OBJ, .JPG, .PNG |
| Software Output Formats | GCode |
| Connectivity | Memory card; Data cable (expert users only) |

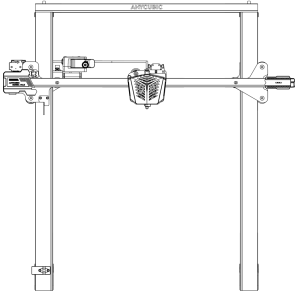
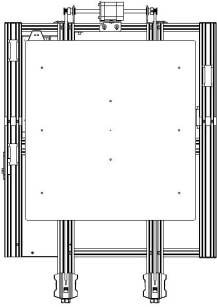
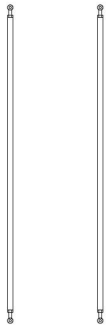
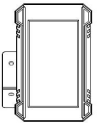
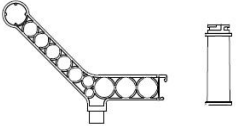
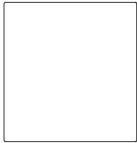












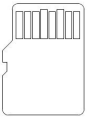
Electrical

| | |
|-------------|------------------------------|
| Power Input | 110 V / 220 V AC, 50 / 60 Hz |
| Rated Power | 500 W |



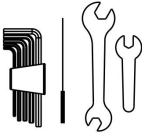

Physical Dimensions

| | |
|--------------------|-----------------------------------|
| Printer Dimensions | 720 mm(L) × 665 mm(W) × 715 mm(H) |
| Net Weight | ~16 kg |

Packing List

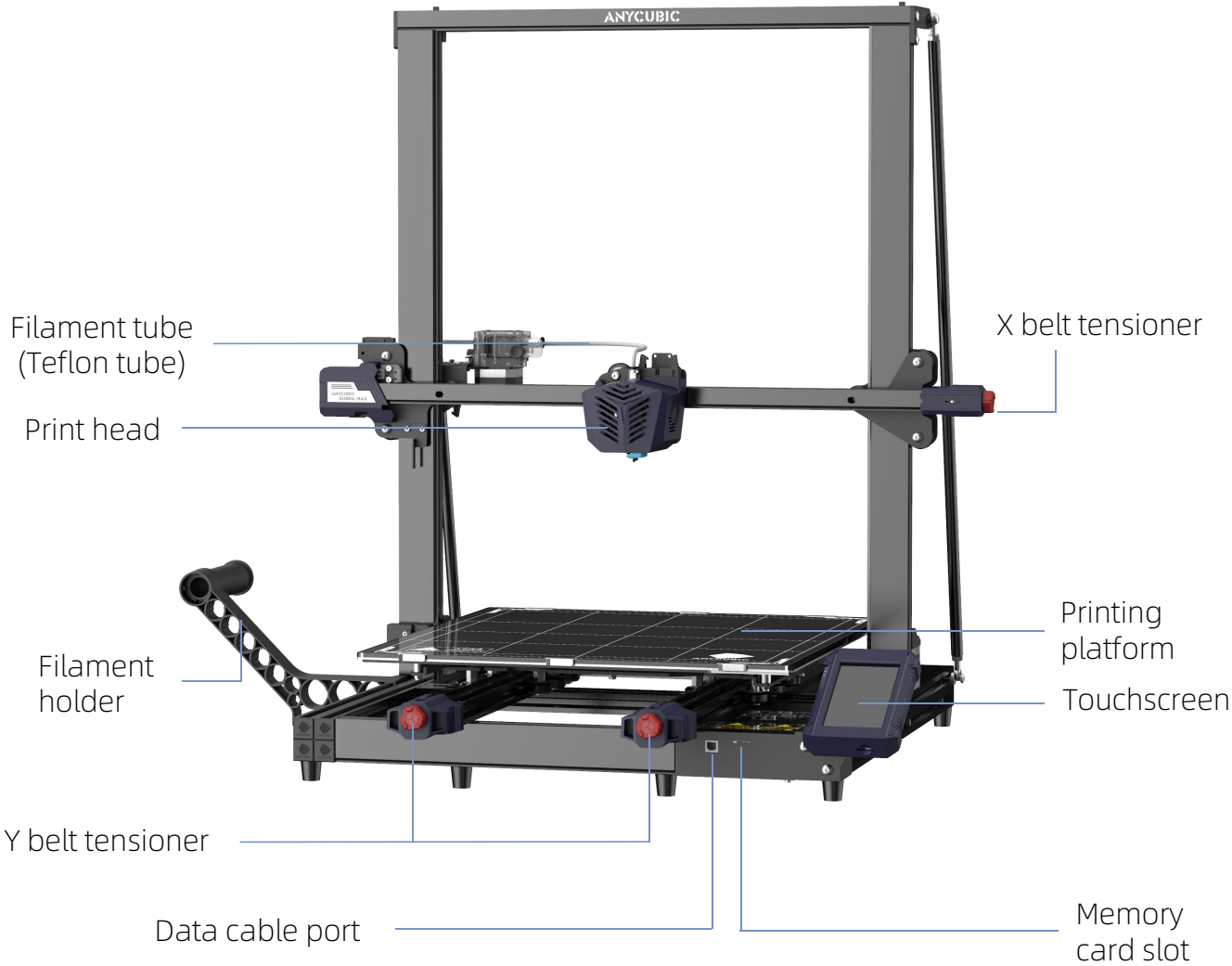
| | | | |
|---|---|---|---|
|  |  |  | |
| Frame | Base | Supporting rods | |
|  |  |  |  |
| Touchscreen | Filament holder | Glass plate | Build plate clamp (6PCS) |
|  |  |  |  |
| M5 x 45 Screws (4PCS) | M5 x 28 Screw (2PCS) | M5 x 16 Screw (2PCS) | M5 x 14 Screw (1PC) |
|  |  |  |  |
| Spring washers (4PCS) | Nut (2PCS) | Washer1 (2PCS) | M5 x 6 Screws (2PCS) |
|  |  |  |  |
| Washer2 (2PCS) | Spare nozzle | Card reader | Memory card |

Packing List

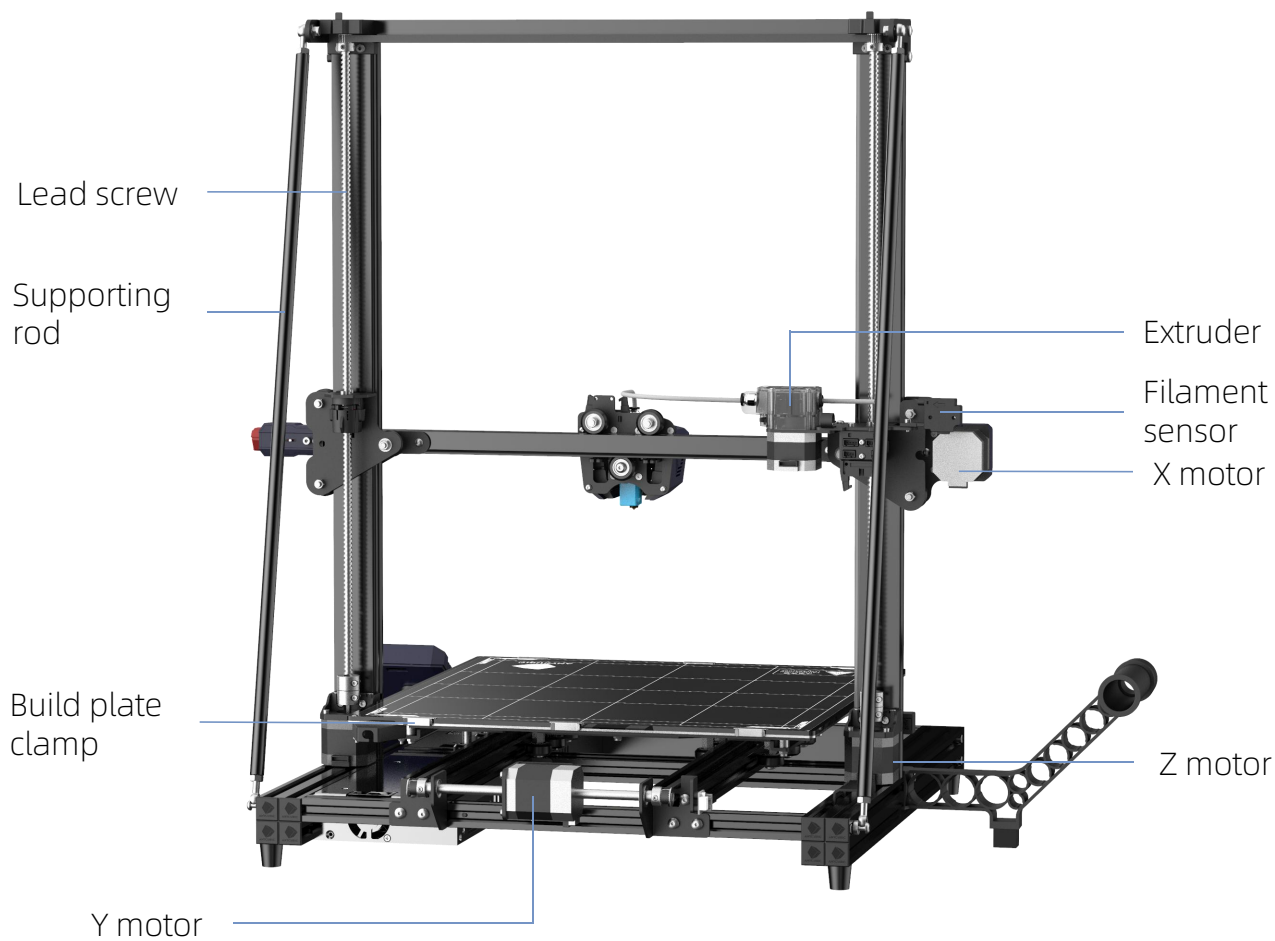
| | | | |
|---|---|---|---|
|  |  |  |  |
| Power cord | Filament (Random Color) | Tool kit | Assembly instruction |

* All pictures shown are for illustrative purposes only. The actual product may vary due to product optimization.

Front

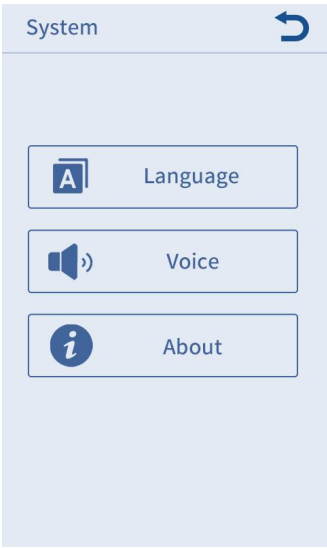
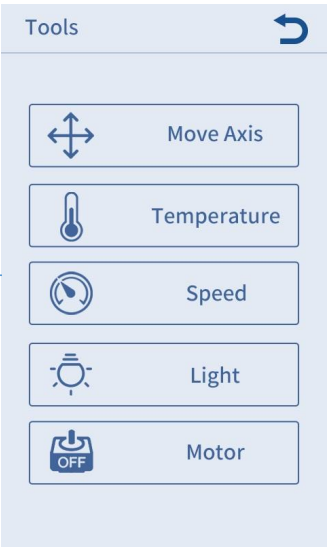
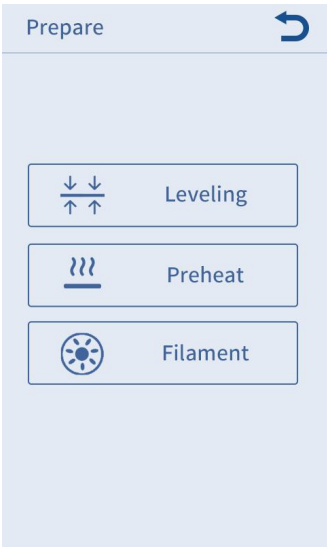


Back



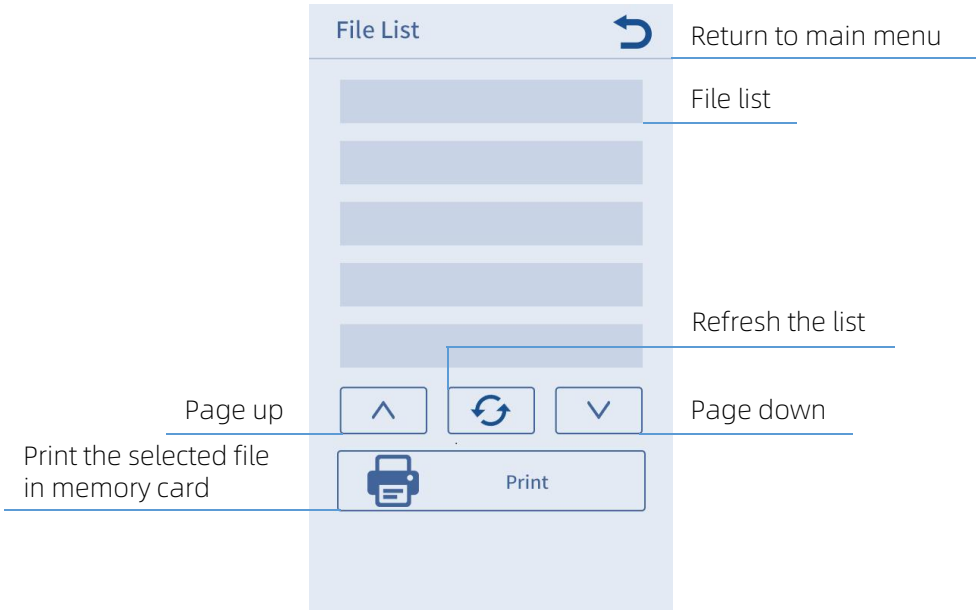


Main menu



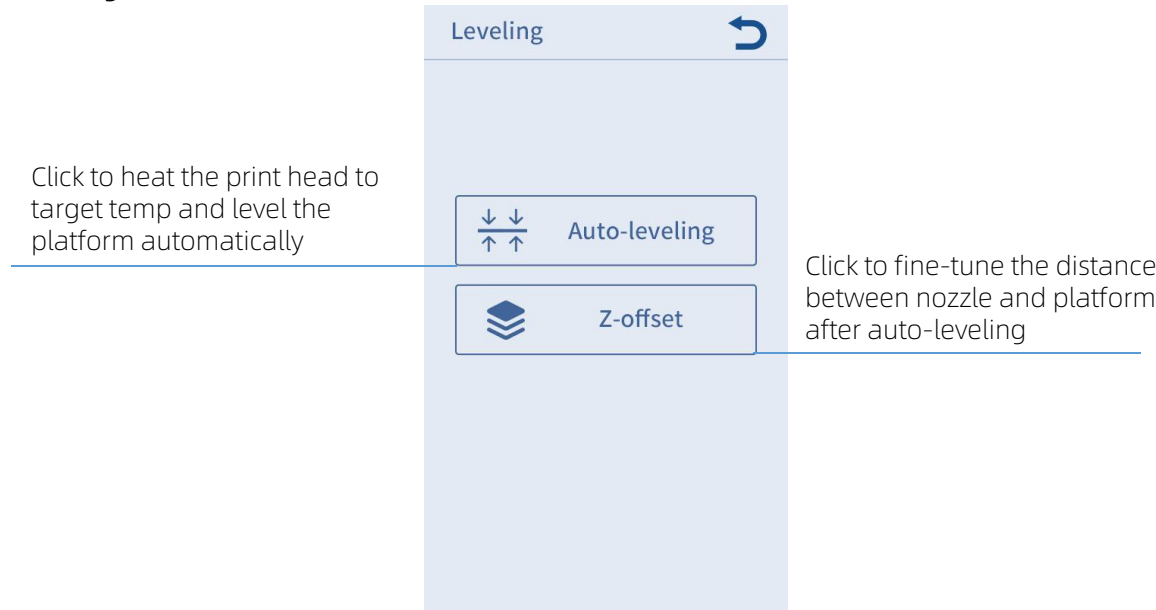
Print

File List:



Prepare

Leveling:



Menu Directory

Preheat:

Click to set extrusion temp (0-260°C)

Display current / target temp of nozzle

Click to set bed temp (0-90°C)

Display current / target temp of bed

Click to preheat PLA

Click to preheat PLA

Filament:

Click to automatically heat the print head to target temp, and click again to feed the filament

Display current / target temp of extrusion

Click to automatically heat the print head to target temp, and click again to retract the filament

Stop filament feeding or retracting

Tool

Move Axis:

Move Axis

Unit mm

0.1

1.0

10

▲

Y

▲

Z

◀

X

X

▶

▼

Y

▼

Z

X

X-axis zero

Y

Y-axis zero

Z

Z-axis zero

Y

X

Z

Home All

Move the platform forward

Move print head to the left

Move the platform back

Set the step distance of motor

Move the print head up

Move print head to the right

Move the print head down

Click to move the platform to the zero position in the Y axis direction

Click to move the print head to the zero position in the X axis direction

Click to move the print head to the zero position in the Z axis direction

Click to home all

Temperature:

Temperature

Current Bed Temp

23

Target Bed Temp

60

Current EO Temp

35

Target EO Temp

190

❄

Cooling

✓

OK

Display the current temp of bed

Reduce bed temp

Click to set bed temp (0-90°C)

Raise bed temp

Display the current temp of extrusion

Reduce extrusion temp

Click to set extrusion temp (0-260°C)

Raise extrusion temp

Cut off the power to hot-end and heated bed (only valid when machine is not printing)

Menu Directory

Speed:

Speed

Current Fan Speed

0 %

Click to set fan speed(0-100%)

Decrease fan speed

-

0 %

+

Target Fan Speed

Increase fan speed

Current Print Rate

100 %

Click to set print rate(0-500%)

Decrease print rate

-

100 %

+

Target Print Rate

Increase print rate

✓

OK

Light: Turn on/off the light of the print head

Motor: Disable all motors (only valid when machine is not printing).

System

Language: Change language (English / Chinese).

Voice: Turn on/off the screen sound.

About: Display the information about the product.

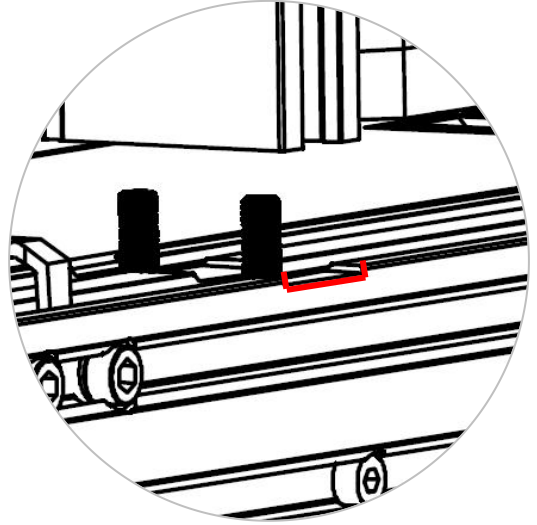
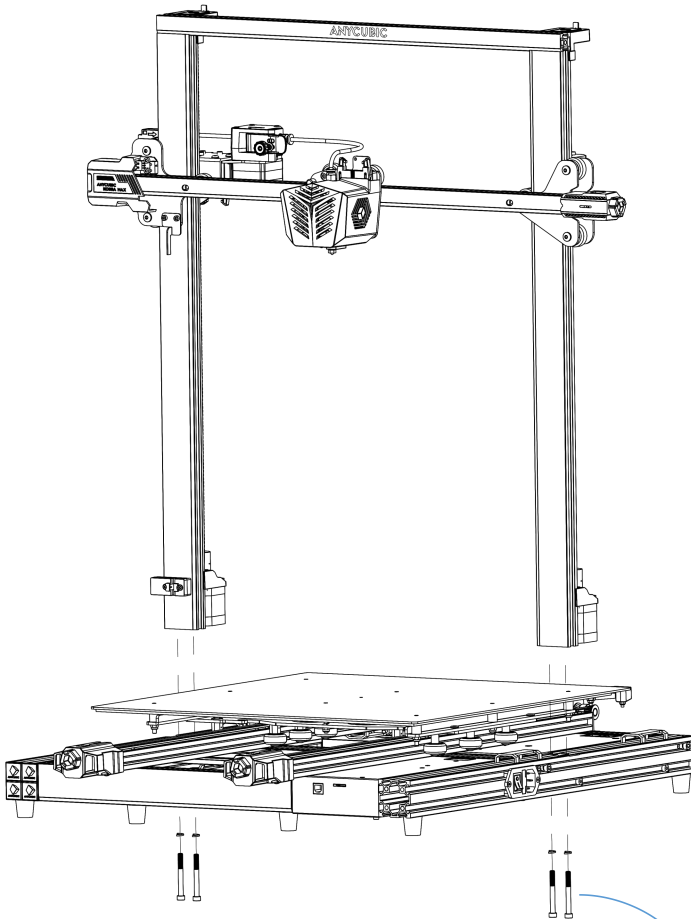
Installation

1. Be cautious during assembly as some parts may have sharp edges.
2. It is suggested to use a flat desktop and place the parts in an orderly manner for quick assembly.
3. The color of some parts may be different from what in the manual, but the assembly is the same.
4. Firmware has been pre-uploaded to the motherboard. After completing the assembly, please level the platform and load the filament then you could start the first test print.

Note: Every unit of the printer has been inspected and tested for printing. Therefore, in some cases, there might be very small marks left on the print head or on the heated bed. Those will not affect the printing quality and those mean the printer has been tested for the quality. If there are some tiny scratches on the aluminum beams or slight unevenness on the platform, it is normal and won't affect the printing quality. Thank you very much for your kind understanding.

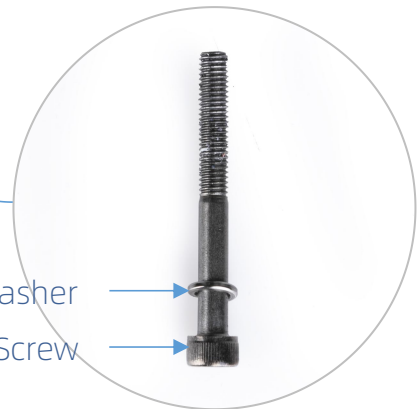
Team **ANYCUBIC**

1. Install the frame. (Front side)



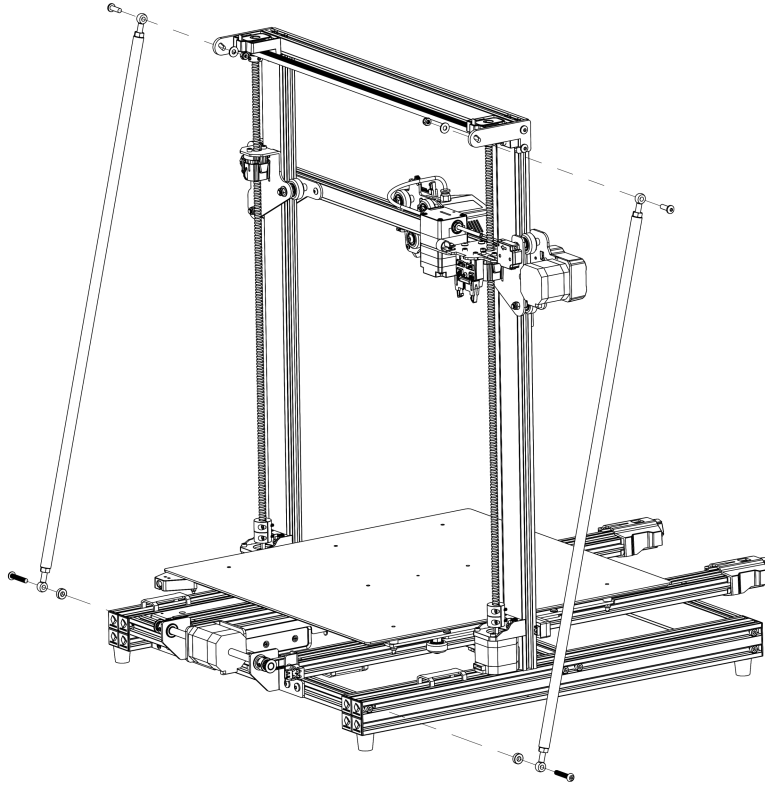
Make sure the Z aluminum beam is accurately mounted onto the groove of the base aluminum beam.

Spring washer
M5 x 45 Screw

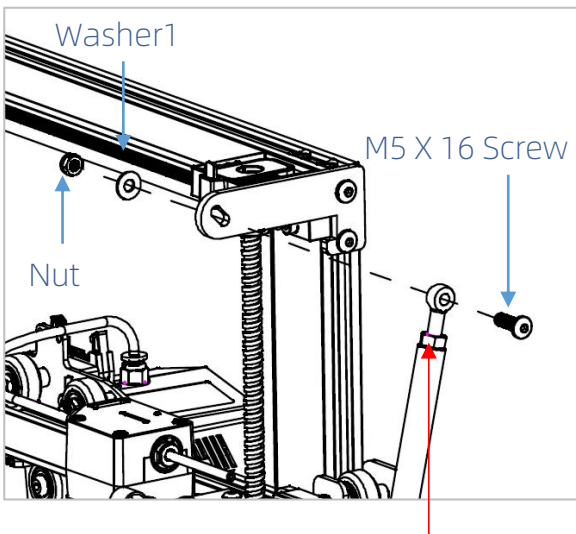


Installation

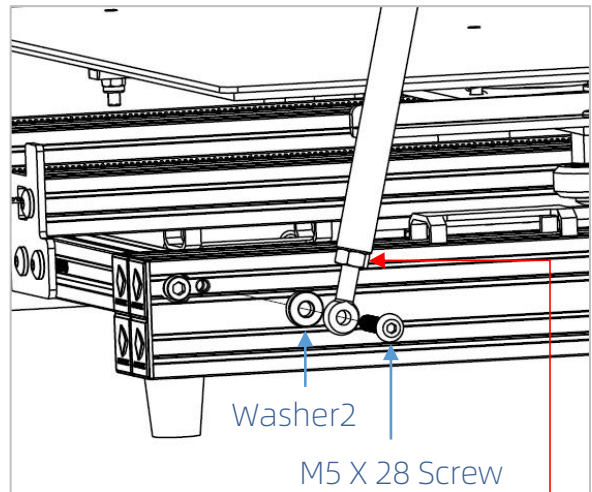
2. Install supporting rods. (Back side)



Step 1



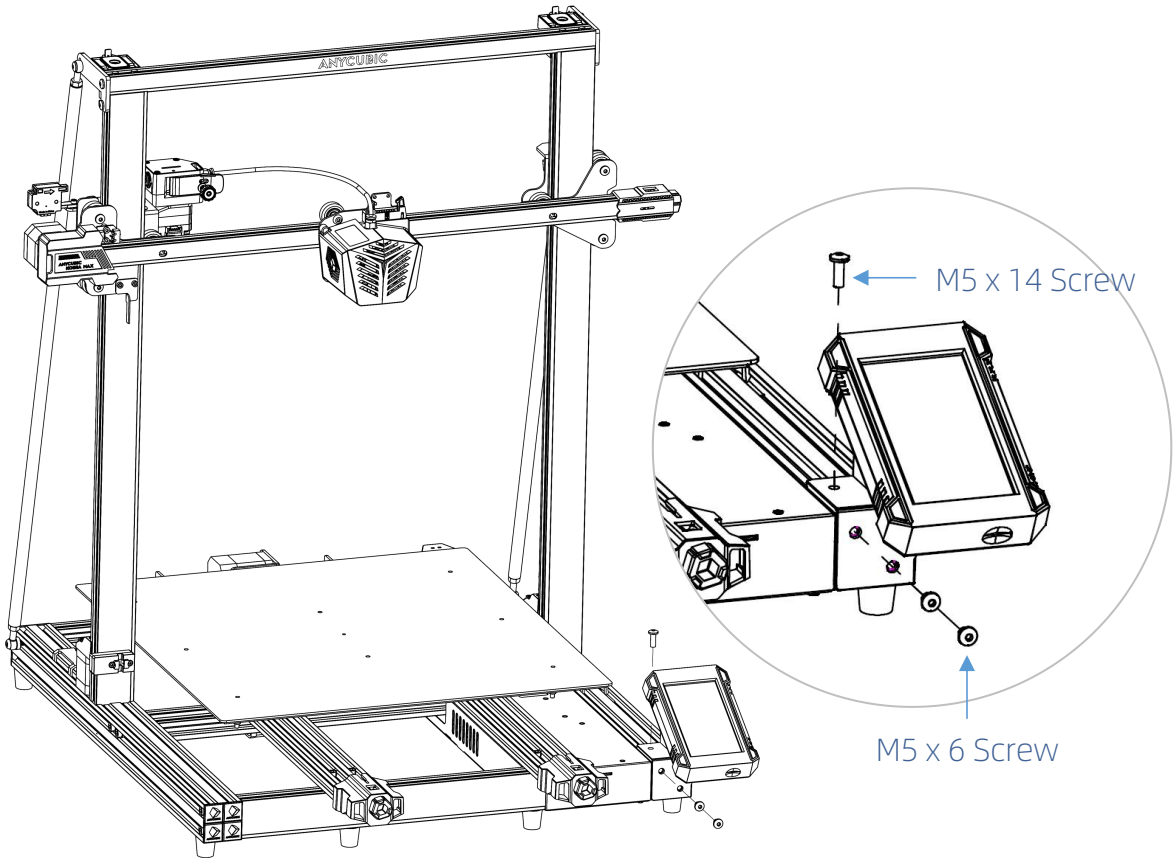
Step 2



After installing both ends of the supporting rod, tighten the nuts.

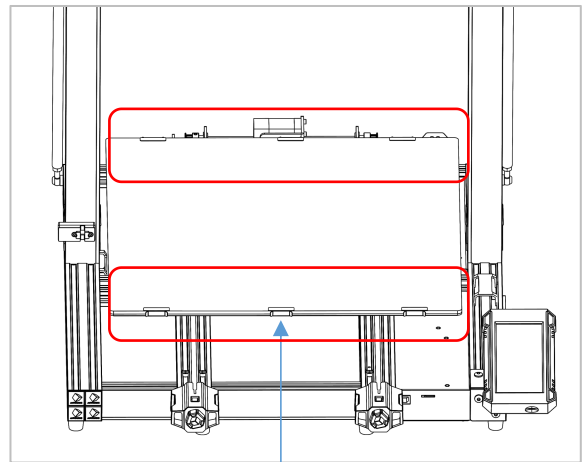
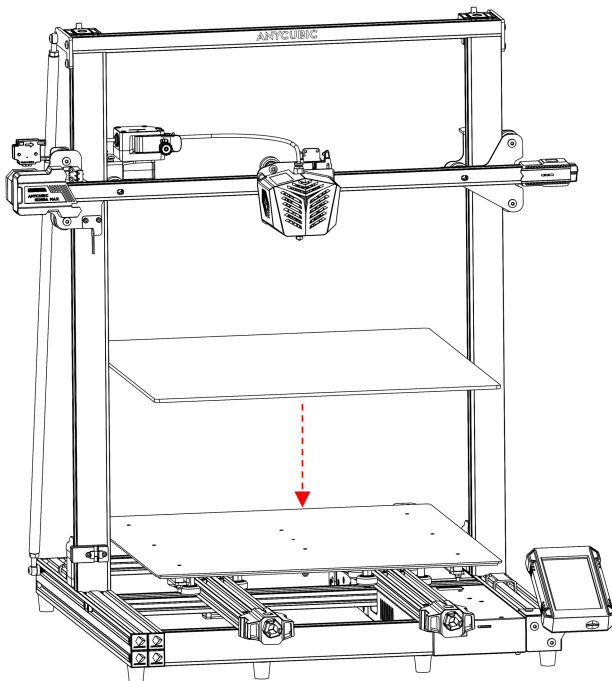
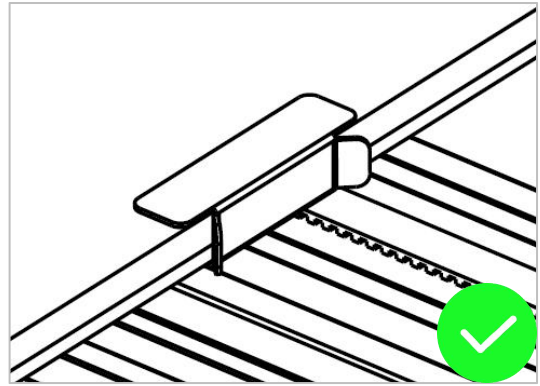
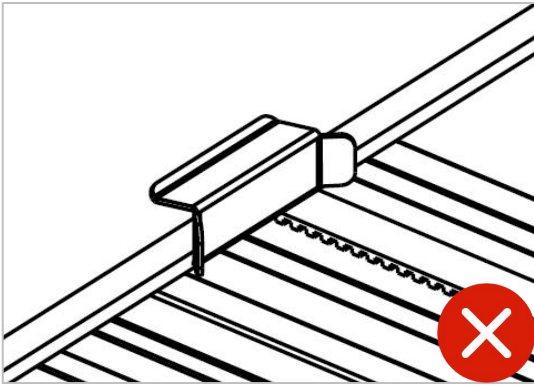
Tips: Loosen the nuts at both ends of the supporting rod and the length of supporting rod can be adjusted.

3. Install the screen. (Front side)



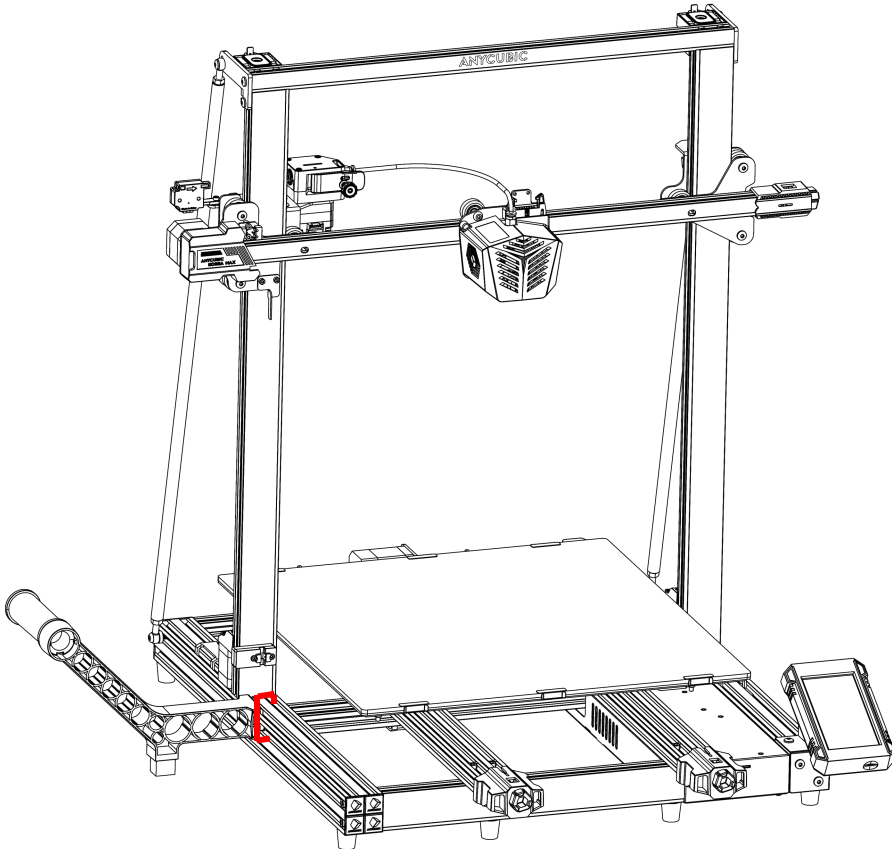
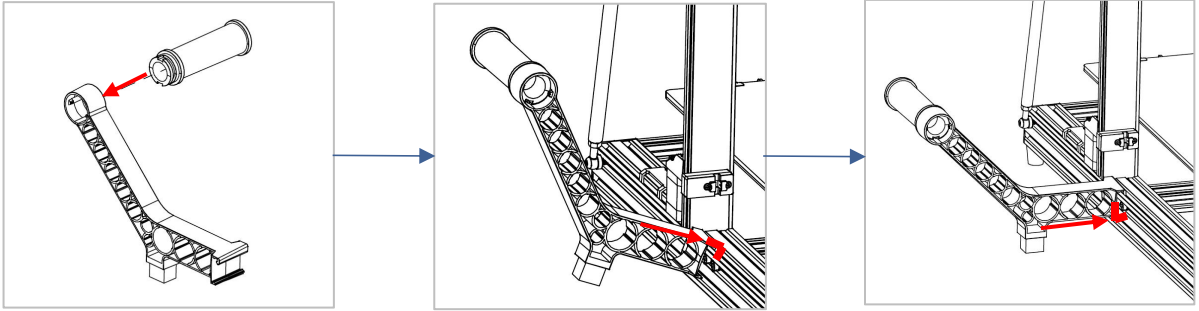
4. Install glass plate. (Front side)

Please remove the film of the heated bed before installing the glass plate.



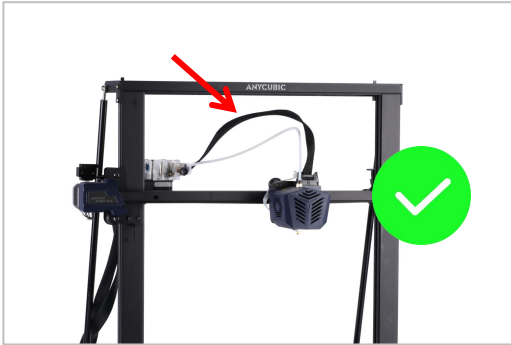
Fix the glass plate to heated bed with 6 build plate clamps.

5. Install the filament holder. (Front side)



6. Wiring: connect all these cables to their ports following the corresponding label.
(The cables are packed under the heated bed, please pull them out carefully.)

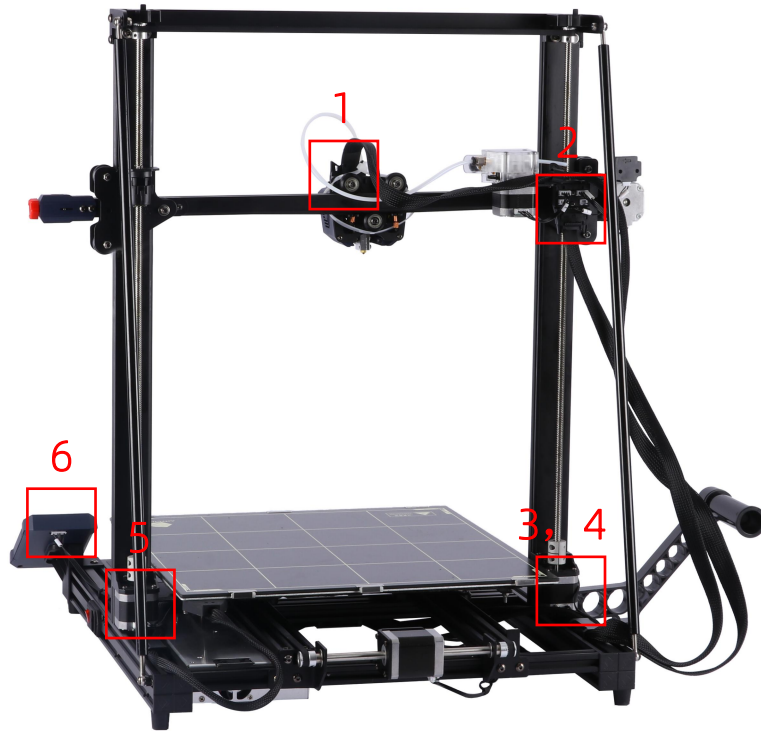
Do not connect or disconnect any cables when the machine is powered on.



Make sure the print head cable goes smoothly under the top beam.



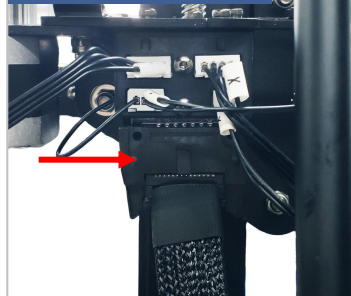
Installation



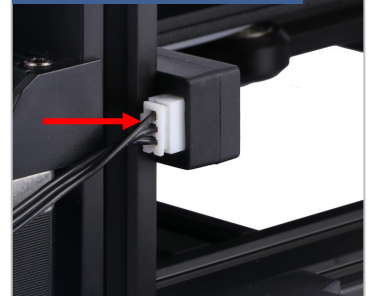
1. Print head



2. E / X motor



3. Z limit switch



4. Left Z motor



5. Right Z motor

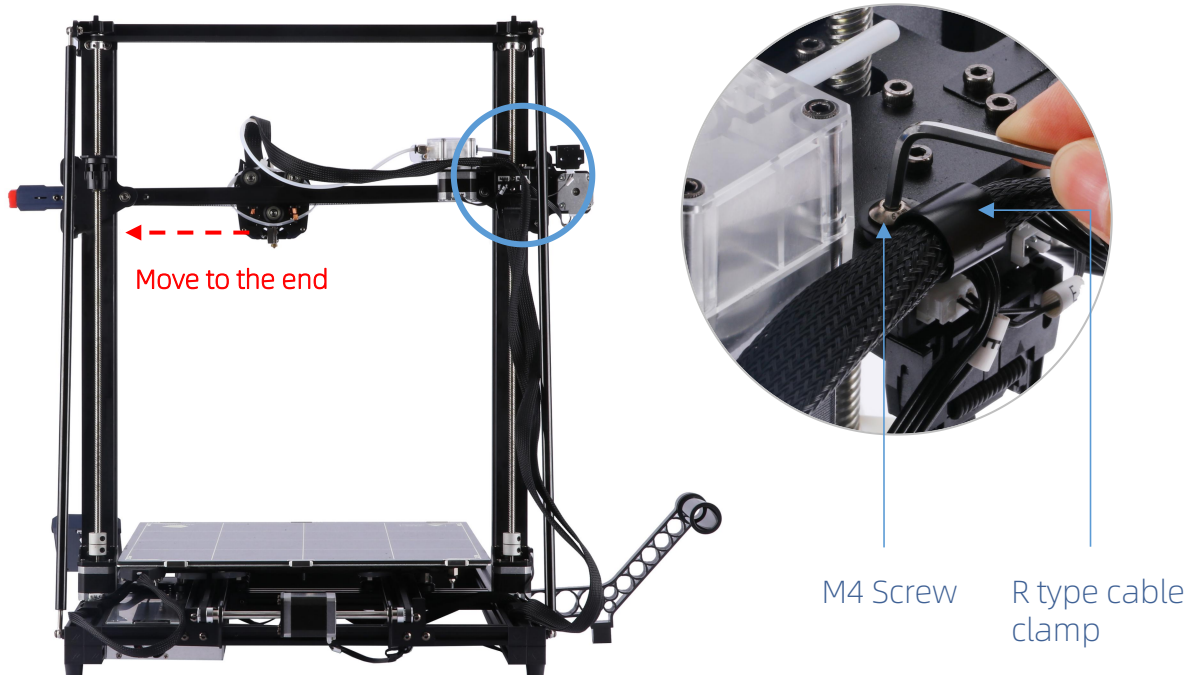
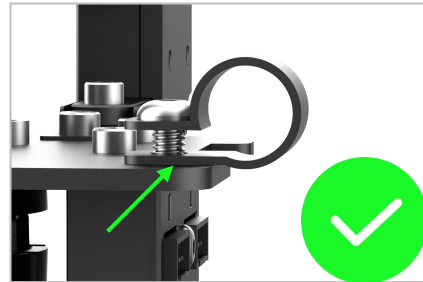
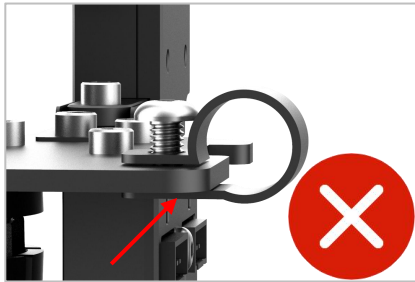
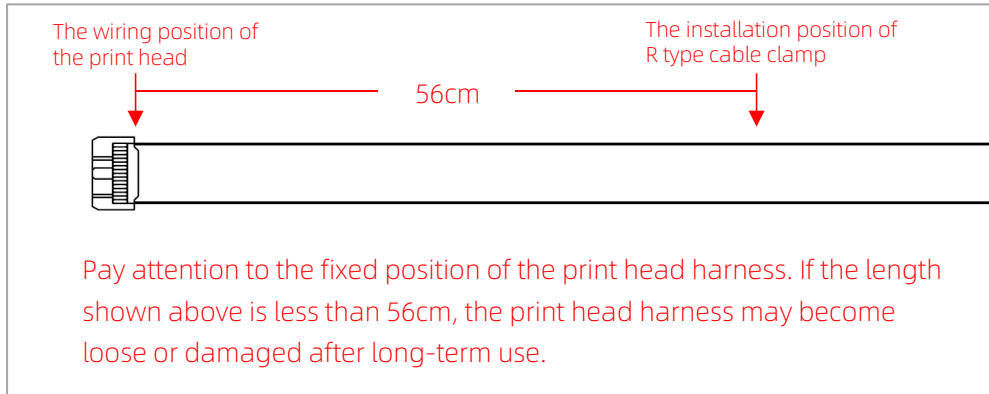


6. Touchscreen

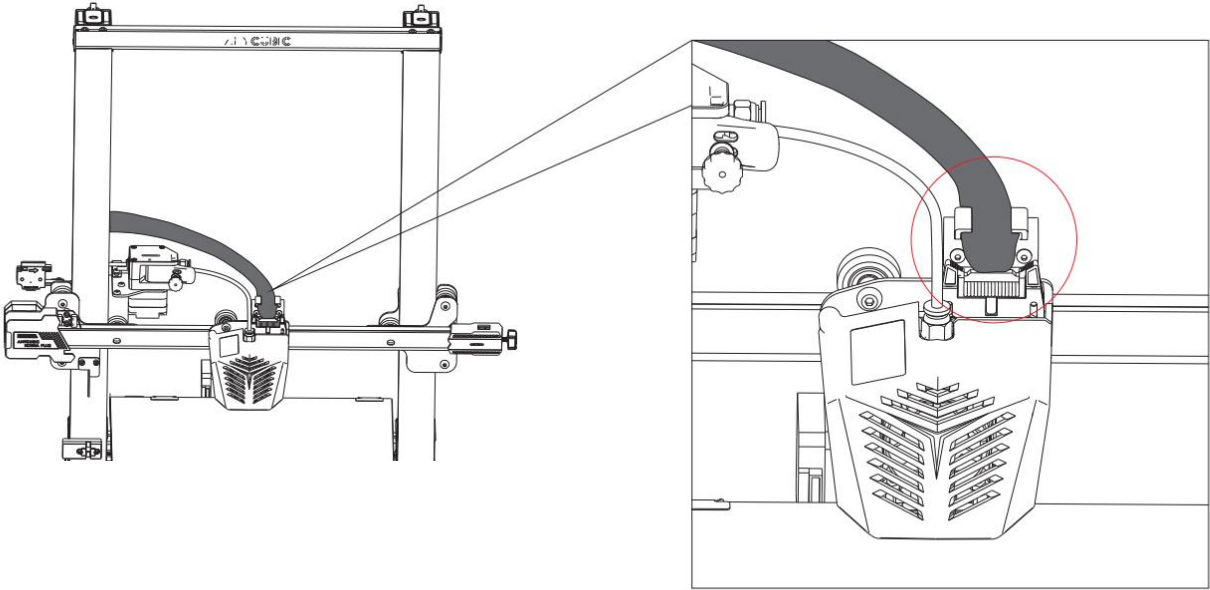


Installation

7. Move the print head to the end, then secure the print head harness into the bracket with an R type cable clamp and one M4 screw. (Back side)

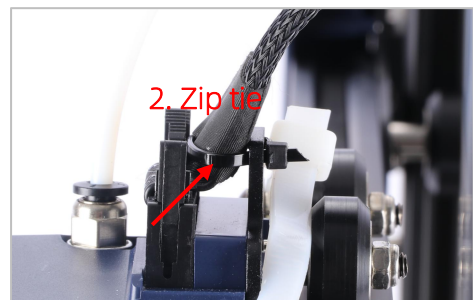
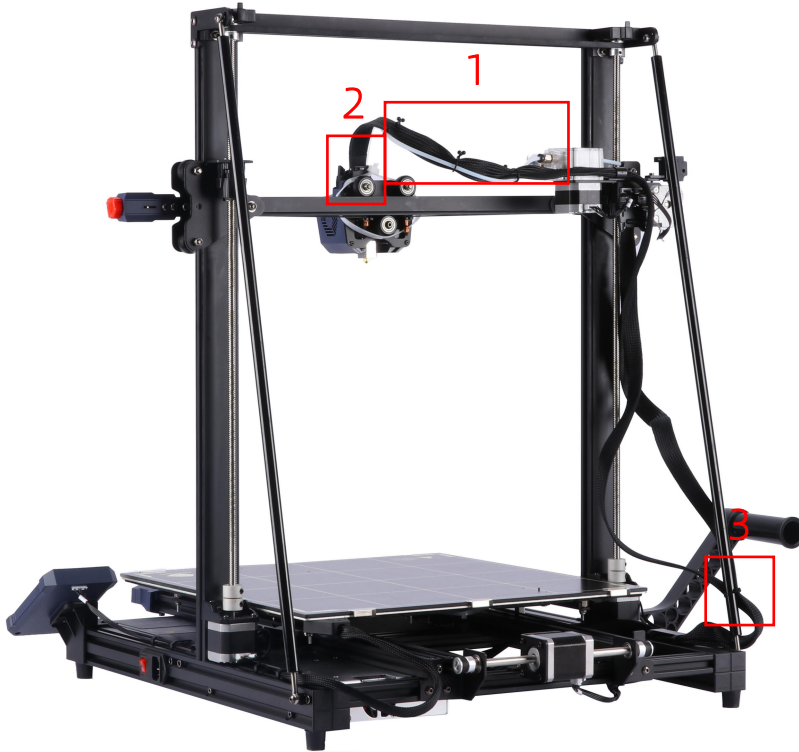


8. Insert the print head harness into the buckle.



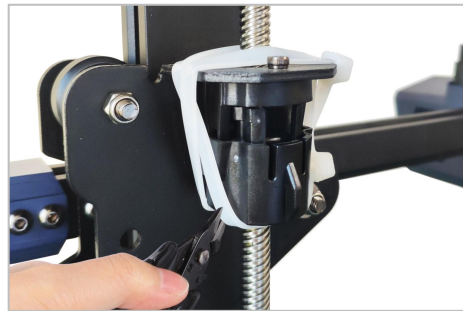
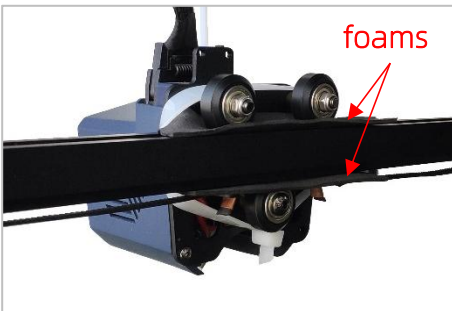
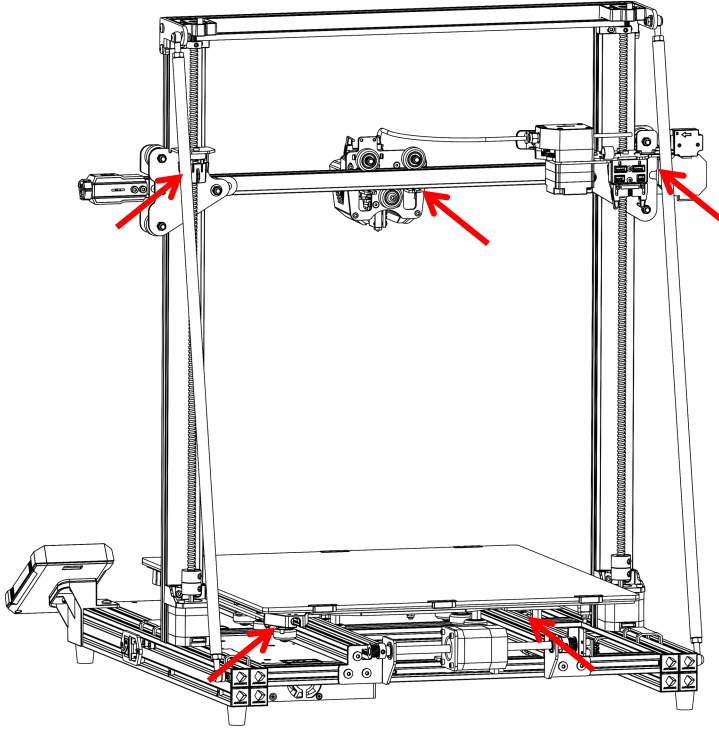
Installation

9. Use three cable clips to tie the print head cable and Teflon tube together, then fix the print head cable to the print head fixing plate with a zip tie, and tie the cables at the left rear to the supporting rod with a zip tie. (Back side)



1. Remove unwanted zip ties and foams

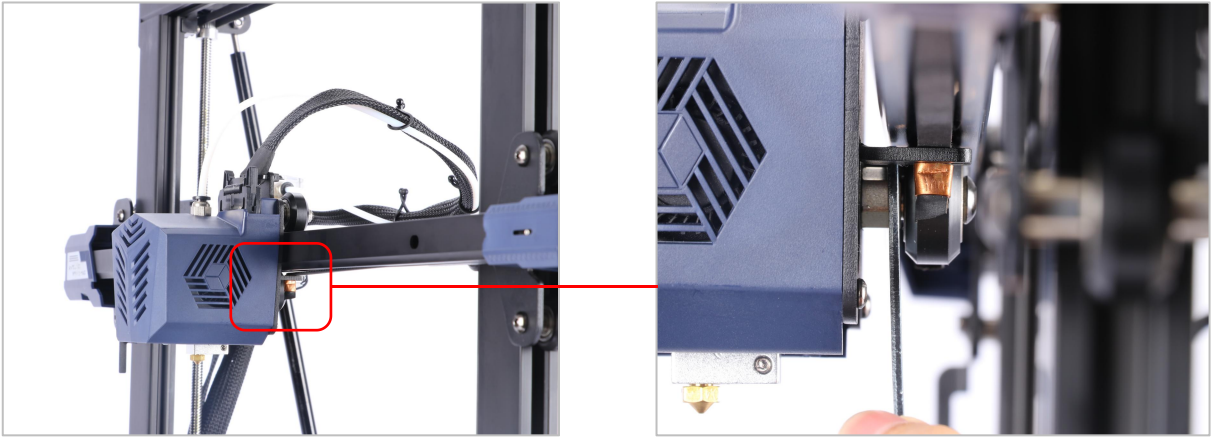
Cut off the zip ties shown in the picture and remove foams from the print head.



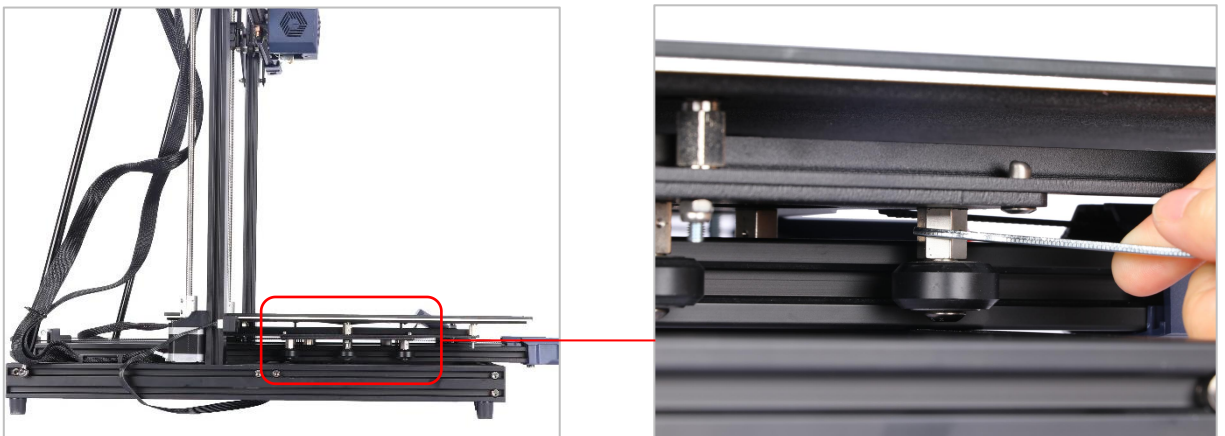
2. D-shape wheels

D-shape wheels of the base and print head may be loose due to transportation. After assembly, place the printer on a flat desktop and check the wheels.

① **X axis:** Shake the print head manually. If it wobbles, tighten the wheel by rotating the eccentric nut with an open-end wrench until the print head does not wobble and moves smoothly along X axis.



② **Y axis:** Shake the printing platform manually. If it wobbles, tighten the wheels by rotating the eccentric nuts with an open-end wrench until the platform does not wobble and moves smoothly along Y axis.



3. Belts

Please **tighten** the belt tensioners if the belts are loose.



Leveling

Leveling the printing platform is a key step in 3D printing, which determines to a large extent whether the model can be reliably adhered to the printing platform. If the distance between the nozzle and the printing platform is too wide, the model will not adhere to the printing platform properly. If the nozzle is too close to the printing platform, it will hinder material extrusion and scratch the platform. Once leveled, it is not necessary to level every time before each printing.

Anycubic Kobra Max supports auto-leveling, which is easy to level the platform.

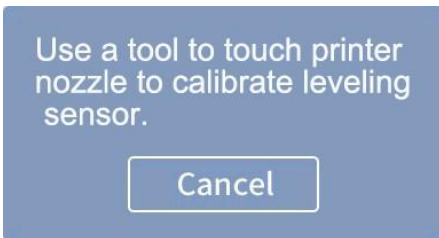
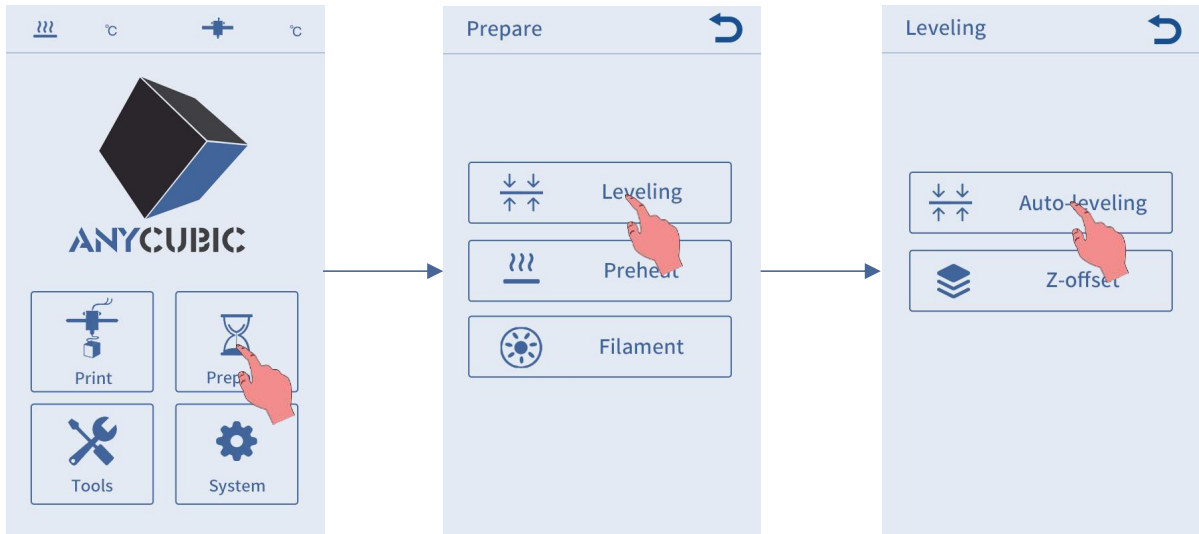
* Before leveling, please ensure that the platform and nozzle are clean and free of foreign matters to avoid affecting the leveling effect.

1. Plug in the power cord, and then power on the printer.



Leveling

2. Return to main menu, then click **Prepare** → **Leveling** → **Auto-leveling**. A pop-up window appears that prompts you to use a tool to touch nozzle for calibration. **Note that you need to do the calibration within 1 minute.**

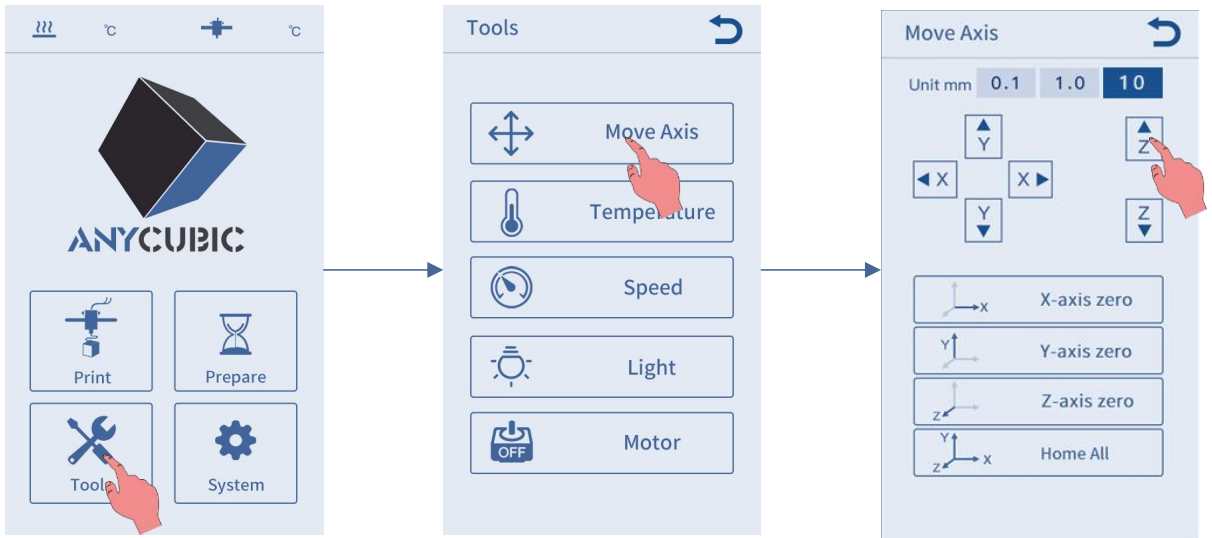


3. When the calibration succeeds, the machine will home and preheat the print head and heated bed (If you manually heat them up to the target temperature before leveling, the preheating will be skipped automatically). When the machine reaches the target temperature, it will probe 16 spots on the platform automatically. This will take a few minutes, please be patient.

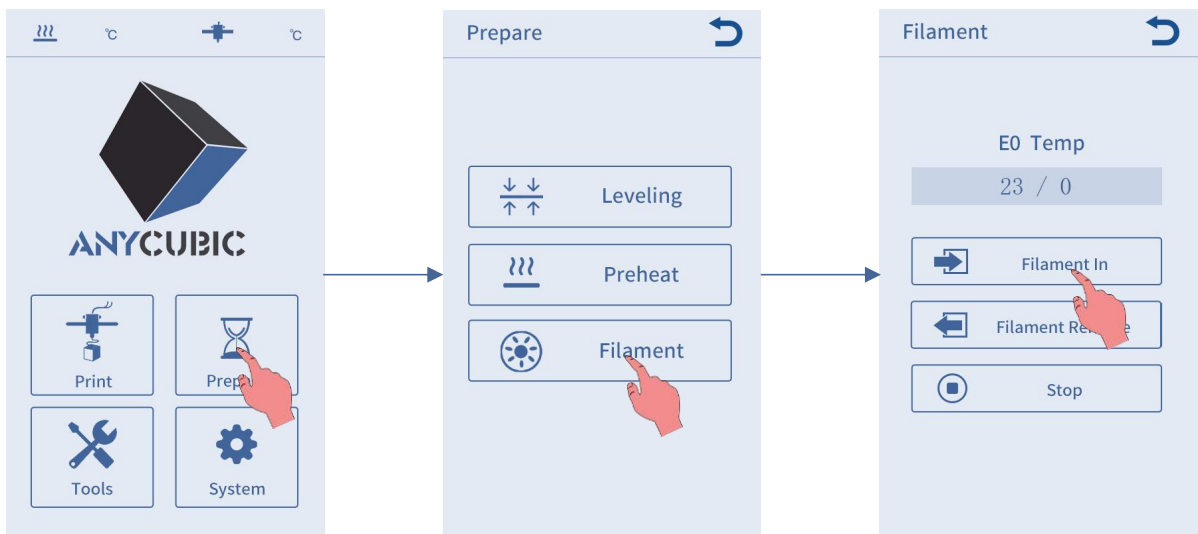
*** Please do not touch the nozzle and heated bed to prevent scald.**

Loading Filament

1. Return to main menu, click **Tools** → **Move Axis**, click **z** continuously to rise the print head, so that there is enough space for loading.



2. Return to main menu, click **Prepare** → **Filament** → **Filament In**, and the heating up interface will pop up, click "OK".



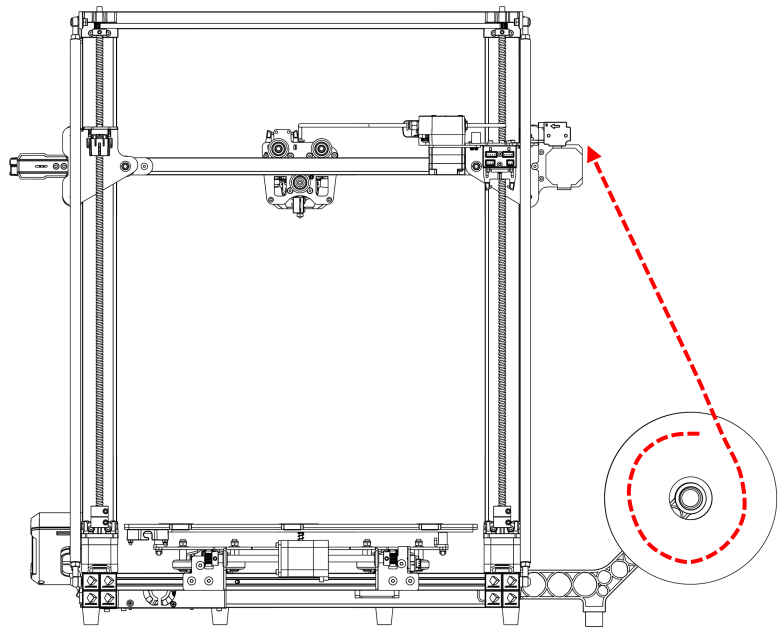
Loading Filament

The print head temperature is too low and the machine is heating up automatically.

Ok



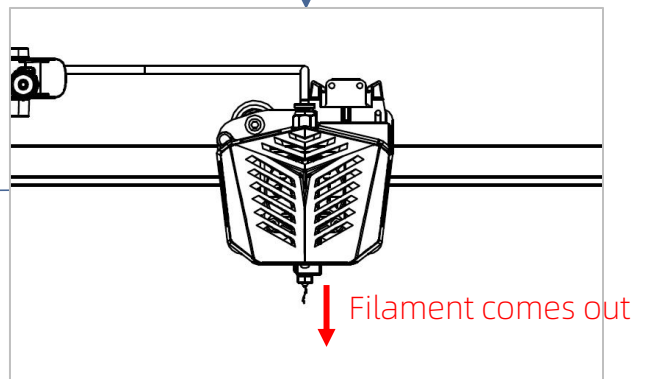
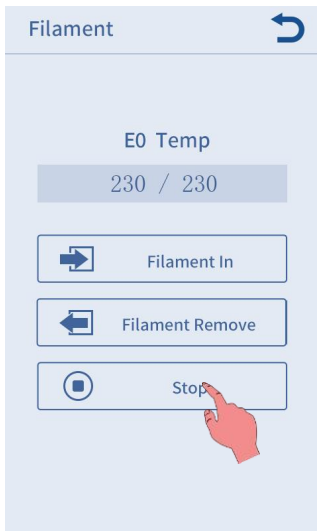
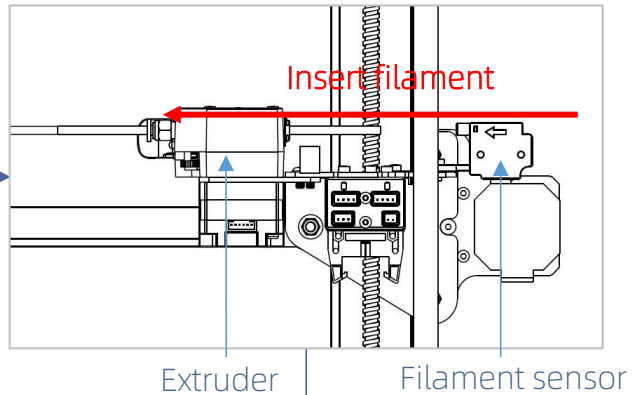
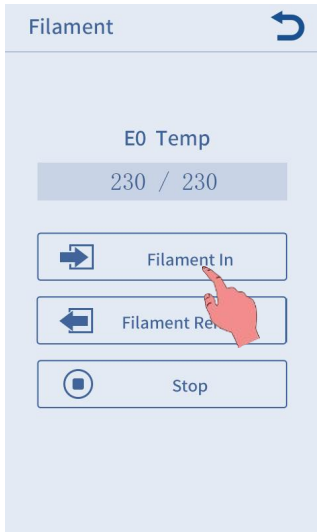
3. Cut the end of the filament at a 45 degree angle and straighten the filament, then place the filament spool on the filament holder.



Loading Filament

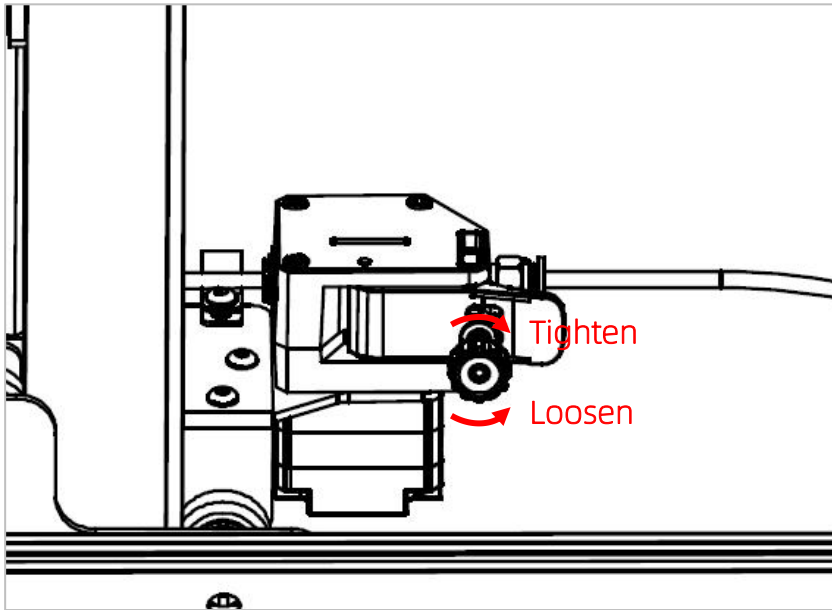
4. Check the temperature on the screen. When the nozzle reaches the target temperature, click **Filament In** again. Pass the filament through filament sensor, and insert it to the extruder until it is fed by the extruder. When the filament comes out smoothly at the nozzle, click **Stop**.

* Please clean the filament residue on the nozzle tip.

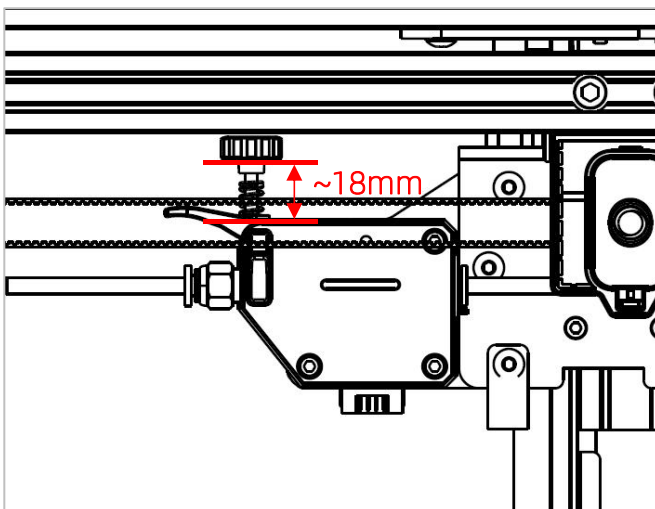


Supplement:

During feeding, if the extruded filament is not smooth or too thin, please adjust the extrusion force by rotating the knob as shown below.



- If the filament is not extruded or extrusion is not smooth, please increase the extrusion force by tightening the knob.
- If the extruded filament is too thin, please reduce the extrusion force by loosening the knob.



Note: The optimal distance of knob for extruding filament is about 18 mm. You may adjust the distance of the screw for the different filament.

Printing Models

After the leveling and filament feeding are completed, the printing can be started. A printable file "owl.gcode" has been preloaded in the memory card and the users can print it directly.

* In order for the printer to better recognize the GCode file in the memory card, you need to back up all the files in the memory card to the computer, and keep the memory card only for the GCode files. Please save all the GCode files in root directory of the memory card.

* GCode file name should only contain English letters, underscore and space. File name contains special characters could not be recognized by the printer.

1. Insert the memory card into the memory card slot, and choose the "owl.gcode" file to print. (owl, author: etotheipi, www.thingiverse.com)

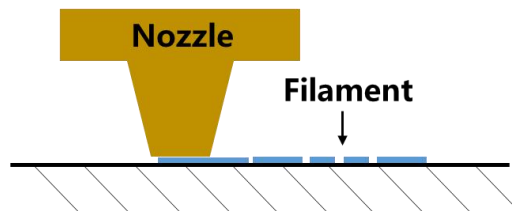


Printing Models

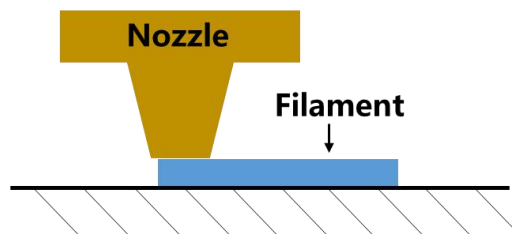
* Before printing, the nozzle will start heating after the heated bed reaches target temperature. When the temperature reaches target value, the printer will start printing.

2. There might be three kinds of results for the first or second layer of the test print:

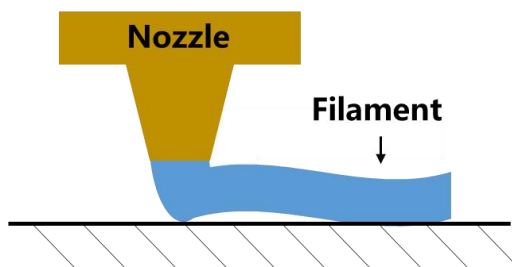
① Nozzle is too close to the platform, resulting in insufficient extrusion of filament.



② Proper distance between nozzle and platform can achieve the best printing effect.



③ Nozzle is too high and the gap is large, which lead to poor adhesion of filament to the platform.

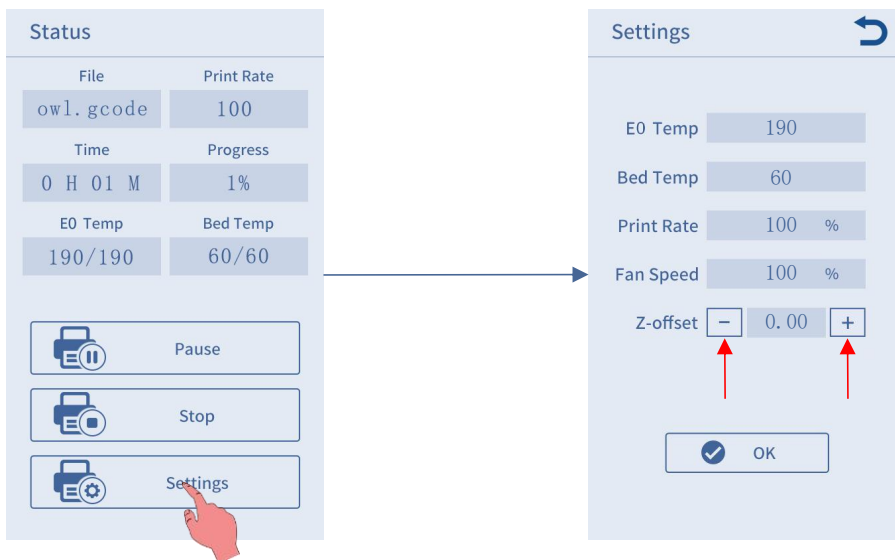


Printing Models

The printing effect ① and ③ can be improved by adjust Z-offset during printing.

How to adjust the Z-offset:

Click **Settings** on printing status interface, then click “+” or “-” of the Z-offset to adjust the distance between nozzle and printing platform and observe the printing effect.



- In case of configuration ①, please click **Settings** → **Z-offset** → **+** to rise the print head.
- In case of configuration ③, please click **Settings** → **Z-offset** → **-** to lower the print head.

* After adjusting the offset setting, click "OK" on the settings interface, and the offset will be effective for subsequent printing; if you only click the Return button without clicking "OK", the offset will only be effective for this printing.

Please adjust the Z-offset patiently until the effect likes ②. If the printing effect is still not good after multiple adjustments, please stop printing and level the platform again.

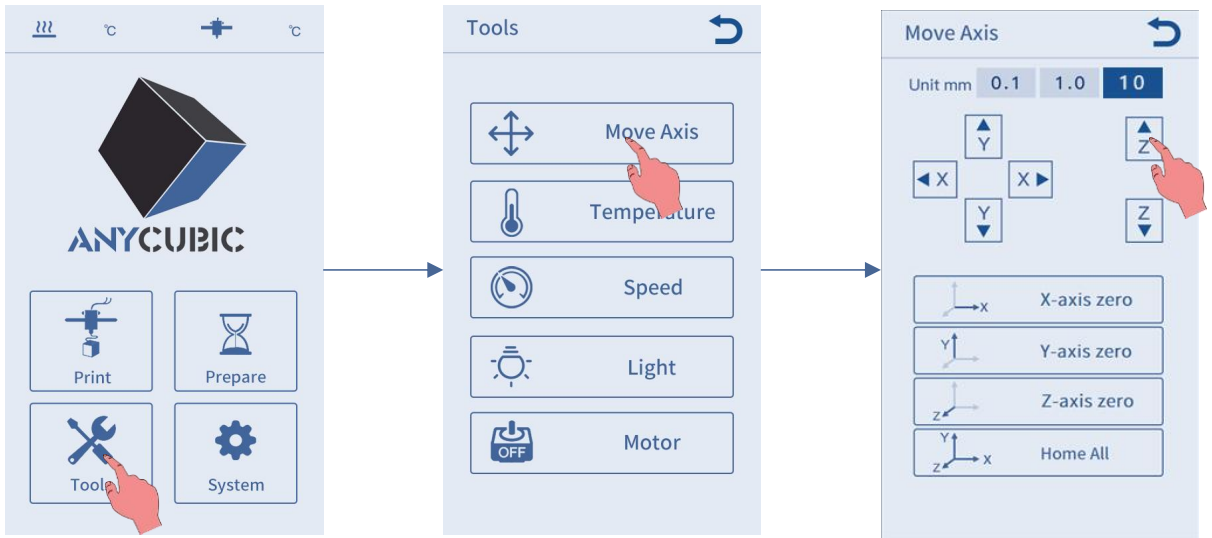
3. The nozzle and heated bed are still at a high temperature when printing is finished. **Make sure to wait for nozzle and heated bed to cool down before removing the model from the printing platform.**

* Tip: To eject the memory card, please press it.

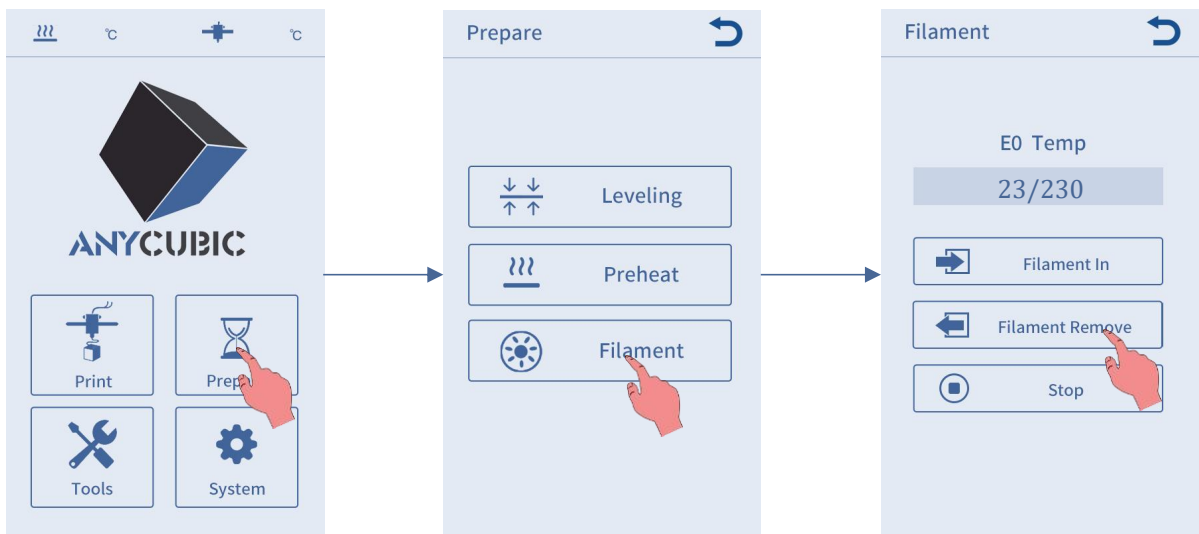
* Note: After pausing printing, the melted filament may fall onto the model. Please remove the excess filaments on the nozzle and model before continuing printing.

Removing filament

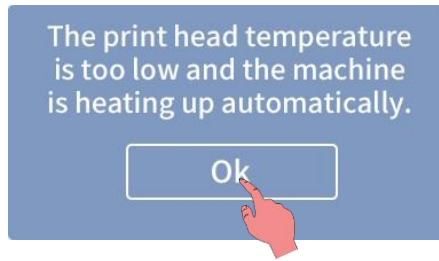
1. Return to main menu, click **Tools** → **Move Axis**, click z continuously to rise the print head, so that there is enough space between the nozzle and platform.



2. Return to main menu, click **Prepare** → **Filament** → **Filament Remove**, and the heating up interface will pop up, click “OK”.



Removing filament



3. Check the temperature on the screen. When the nozzle reaches the target temperature, click **Filament Remove** again. The extruder will extrude a few filament first and then retract it to the gear. **You need to pull out the filament in time to avoid clogging. If you can not pull it out, please press the extruder handle and pull it out quickly.** Finally, click **Stop** .

3D printer reads GCode file and prints. It is necessary to convert 3D files (such as stl file) into GCode files for machine to recognize. Software that convert 3D files into GCode files is called slicing software.

Introduction of slicing software:

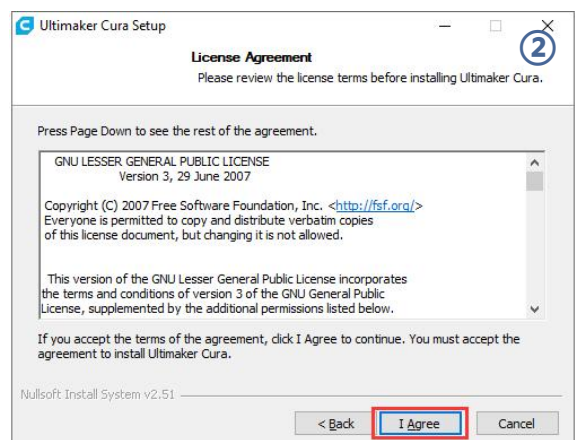
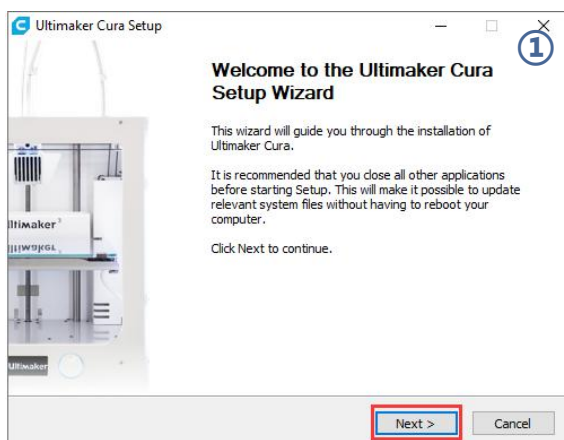
1. Cura Installation
2. Machine Settings
3. Import the Configuration File
4. Manipulate 3D model in Cura
5. Slice and Preview
6. Print Offline and Online

1. Cura Installation

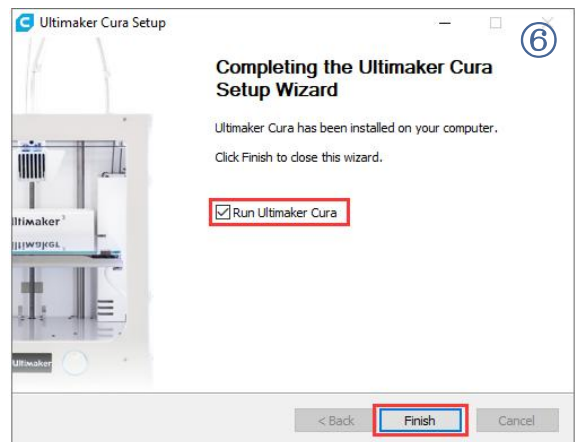
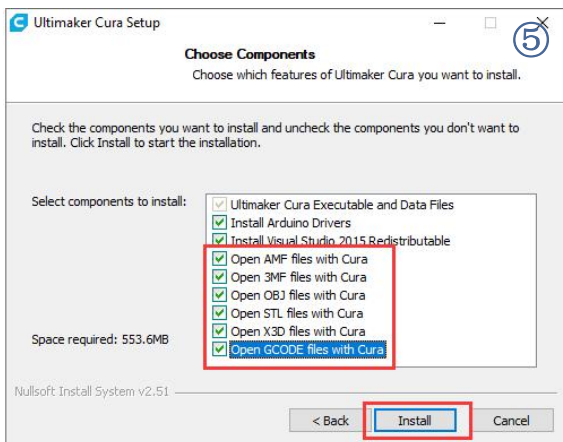
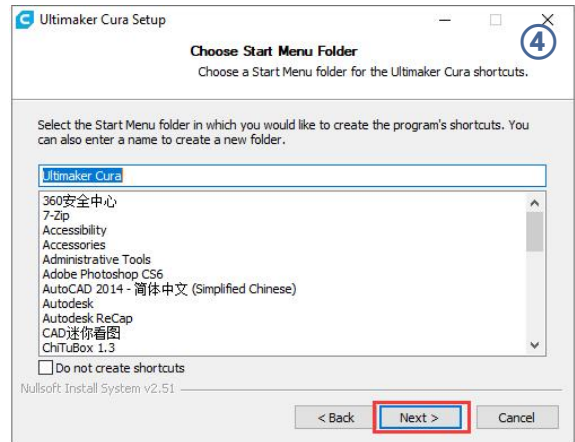
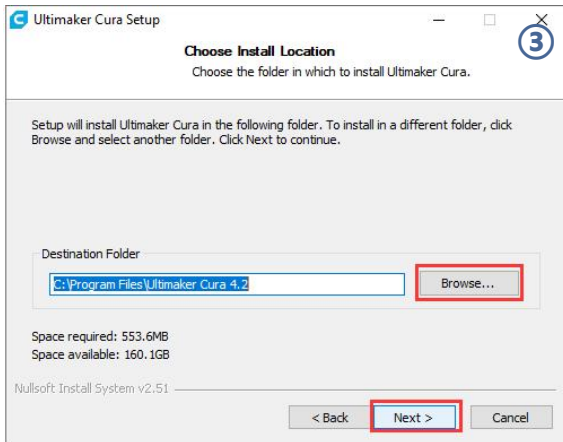
Double click **Ultimaker_Cura-4.2.1-win64**, and follow the steps as shown below.

* Ultimaker Cura 4.2.1 is used for example here, please refer to the memory card for the actual version.

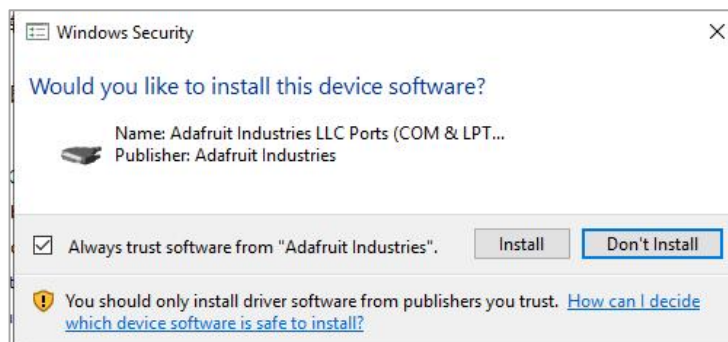
* File path: Memory card → "Files_English_Ancubic Kobra Max" → "Cura" → "Windows" or "Mac".



Introduction to slicing software

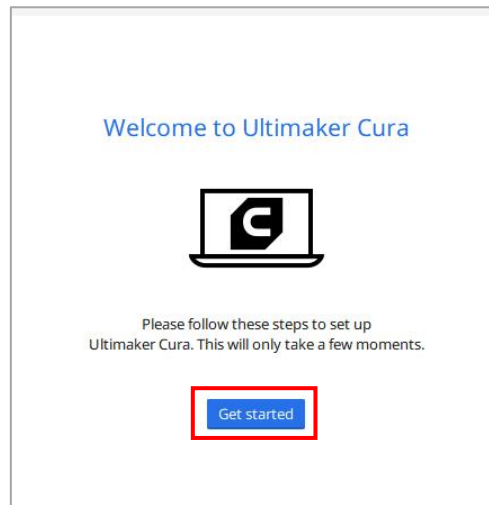


* Printing online requires the installation of a driver, as shown below. If you don't print online, you don't need to install it.



2. Machine Settings

Upon completion of installation, the first launch of the software will display the following welcome screen. Click **Get started** to start the machine settings.



①

User Agreement

Disclaimer by Ultimaker

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[Decline and close](#)[Agree](#)

②

What's new in Ultimaker Cura

4.2.0

Orthographic view.
When preparing prints, professional users wanted more control over the 3D view type, so this version introduces an orthographic view, which is the same view type used by most professional CAD software packages. Find the orthographic view in View > Camera view > Orthographic, and compare the dimensions of your model to your CAD design with ease.

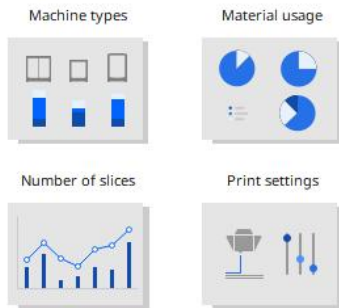
Object list.
Easily identify corresponding filenames and models with this new popup list. Click a model in the viewport and its filename will highlight, or click a filename in the list and the corresponding model will highlight. The open or hidden state

[Next](#)

Introduction to slicing software

③ Help us to improve Ultimaker Cura

Ultimaker Cura collects anonymous data to improve print quality and user experience, including:



Data collected by Ultimaker Cura will not contain any personal information. [More information](#)

Next

④ Add a printer

Add a networked printer

There is no printer found over your network.

Refresh

Add printer by IP

Troubleshooting

Add a non-networked printer

Next

⑤ Add a printer

Add a networked printer

Add a non-networked printer

Ultimaker B.V.

Custom

Custom FFF printer

DeLobot

101Hero

3Dator GmbH

3DMaker

ABAX 3d Technologies

Alfawise

Anet

Anycubic

Printer name

Anycubic Kobra Max

Next

⑥ Machine Settings

Printer

Extruder 1

Printer Settings

X (Width) 402

Y (Depth) 402

Z (Height) 452

Build plate shape Rect...

Origin at center

Heated bed

G-code flavor Marlin

Printhead Settings

X min 20 mm

Y min 10 mm

X max 10 mm

Y max 10 mm

Gantry Height 452 mm

Number of Extruders 1

Start G-code

```
G28 ;Home
G1 Z15.0 F6000 ;Move the pl
;Prime the extruder
G92 E0
```

End G-code

```
M104 S0
M140 S0
;Retract the filament
G92 E1
```

Next

⑦ Machine Settings

Printer

Extruder 1

Nozzle Settings

Nozzle size

0.4 mm 0.4

Compatible material diameter

1.75 mm 1.75

Nozzle offset X

0 mm

Nozzle offset Y

0 mm

Cooling Fan Number

0

Extruder Start G-code

Extruder End G-code

Next

⑧ Ultimaker Cloud



The next generation 3D printing workflow

- Send print jobs to Ultimaker printers outside your local network
- Store your Ultimaker Cura settings in the cloud for use anywhere
- Get exclusive access to print profiles from leading brands

Create an account

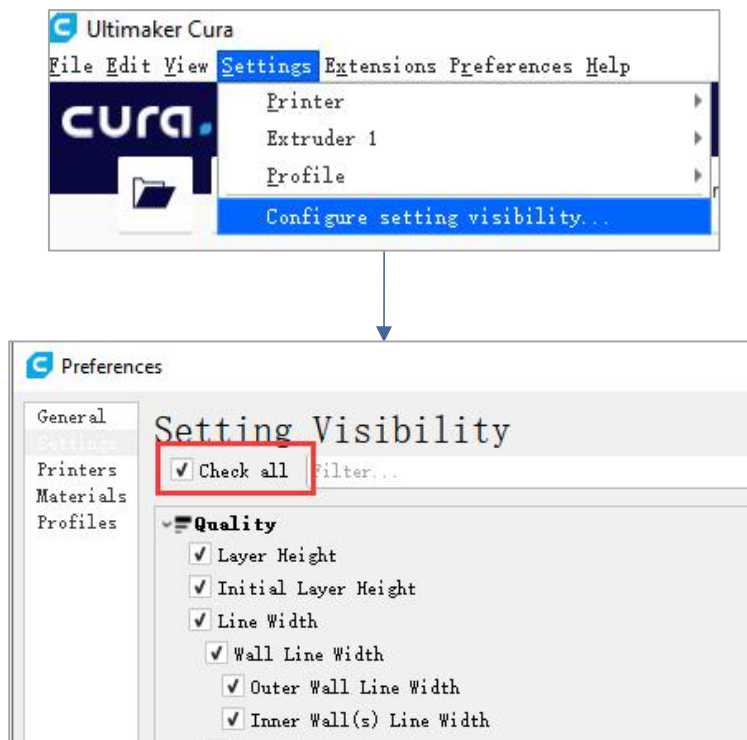
Sign in

Finish

3. Import the Configuration File

After continuous testing, we provided users the suggested printing parameters of different filaments for Anycubic Kobra Max, and the user could directly import the parameter files to the software.

(1) Click **Settings** → **Configure setting visibility...**, and then tick **Check all** box to make all settings visible.



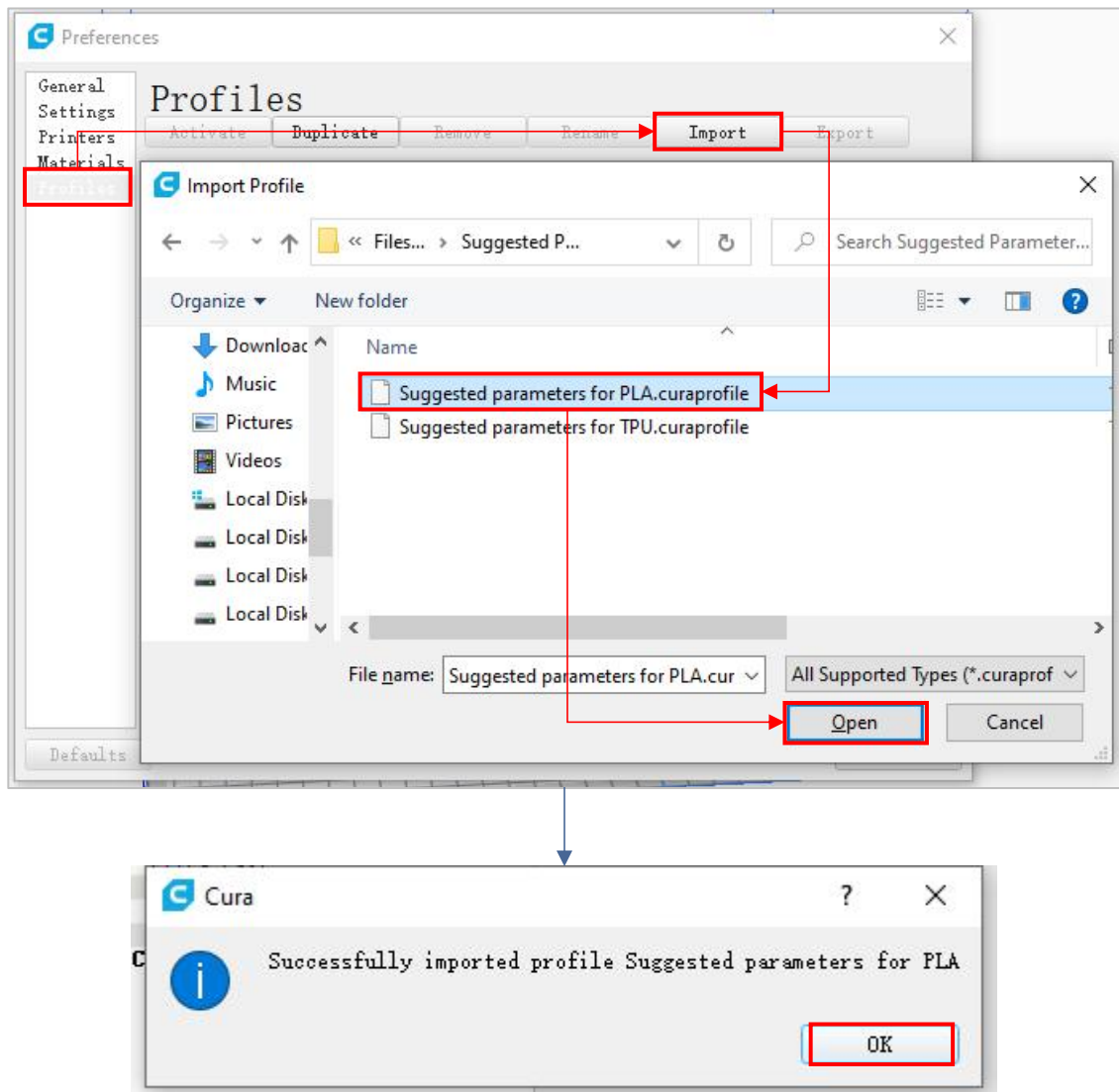
(2) In the same interface opened in Step (1), click **Profiles** on the left side. Then click **Import** button to import the desired print profile.

* Choose different parameter profiles according to different filament types.

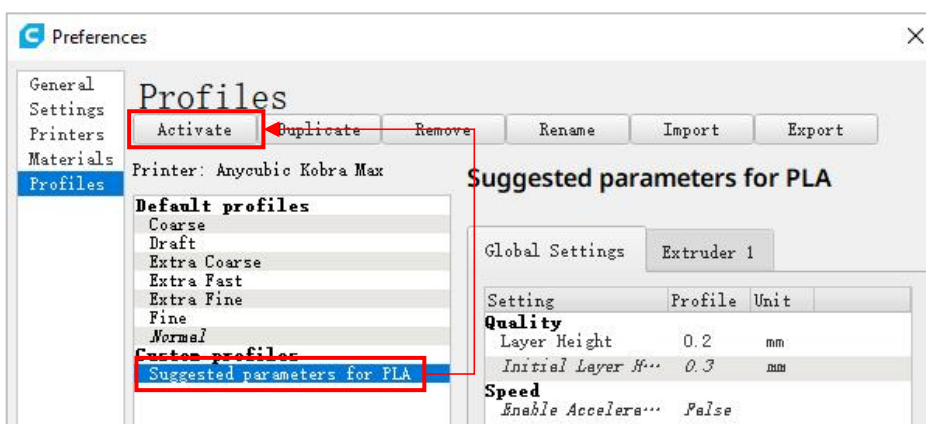
* The provided profiles only match Cura 4.2.1.

* Profile path: Memory card → "Files _ English _ Anycubic Kobra Max" → "Suggested Parameters Profiles"

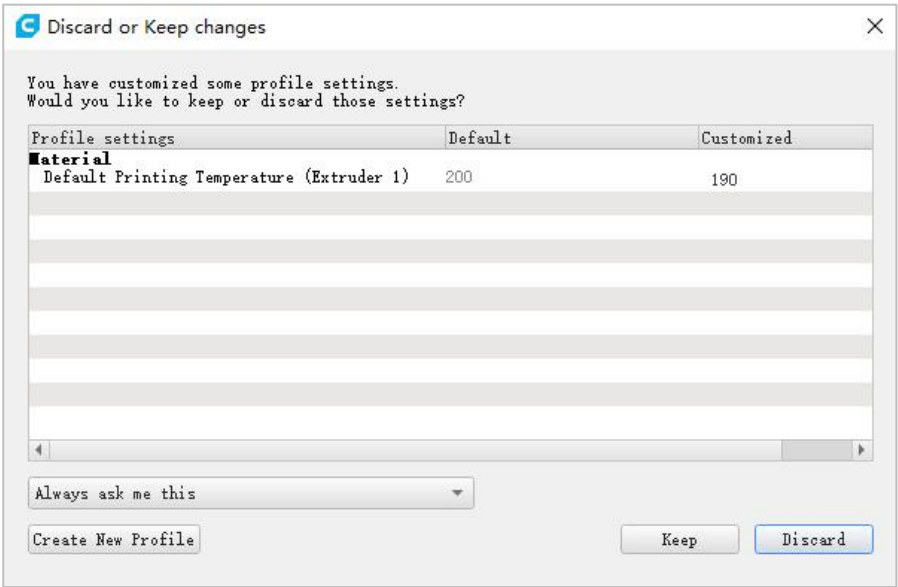
Introduction to slicing software



(3) Select the profile that you just imported, and then click the **Activate** button.

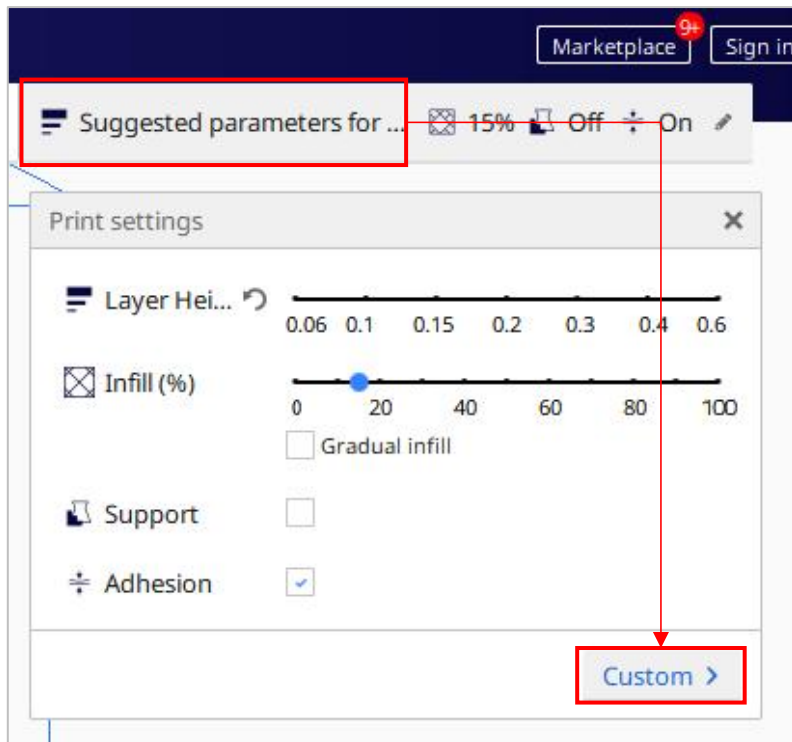


* Note: An interface may pop up after clicking the **Activate** button. If so, please check the values of listed parameters. You can click **Keep** to keep the custom values or click **Discard** to enable the values in the profile.

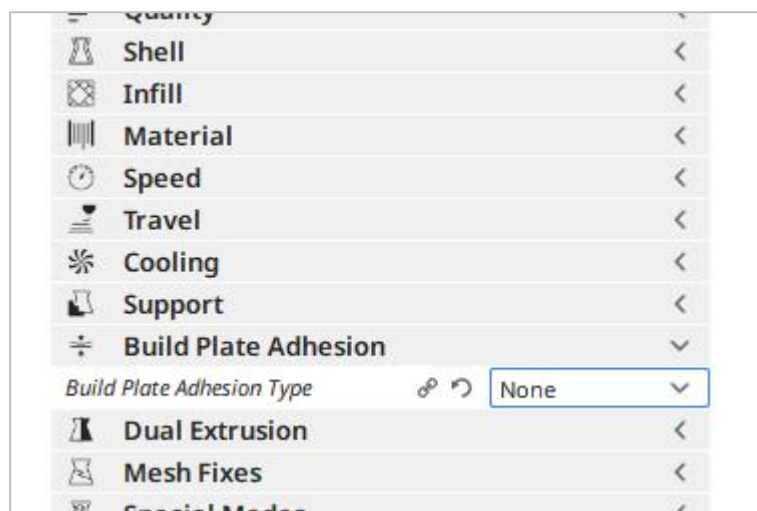


Supplementary Explanation

- ① You can customize some parameters after importing the profile, but we still recommend that you use the parameters in the profile that we provide.



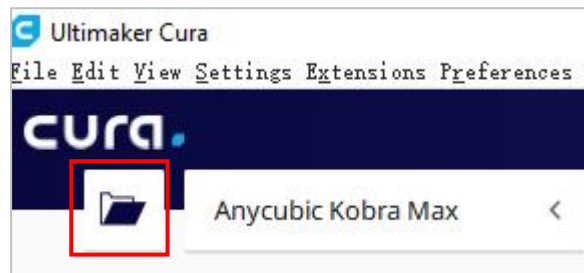
- ② The parameter **Build Plate Adhesion** → **Build Plate Adhesion Type** needs to be set to "None" when you print the maximum size model.



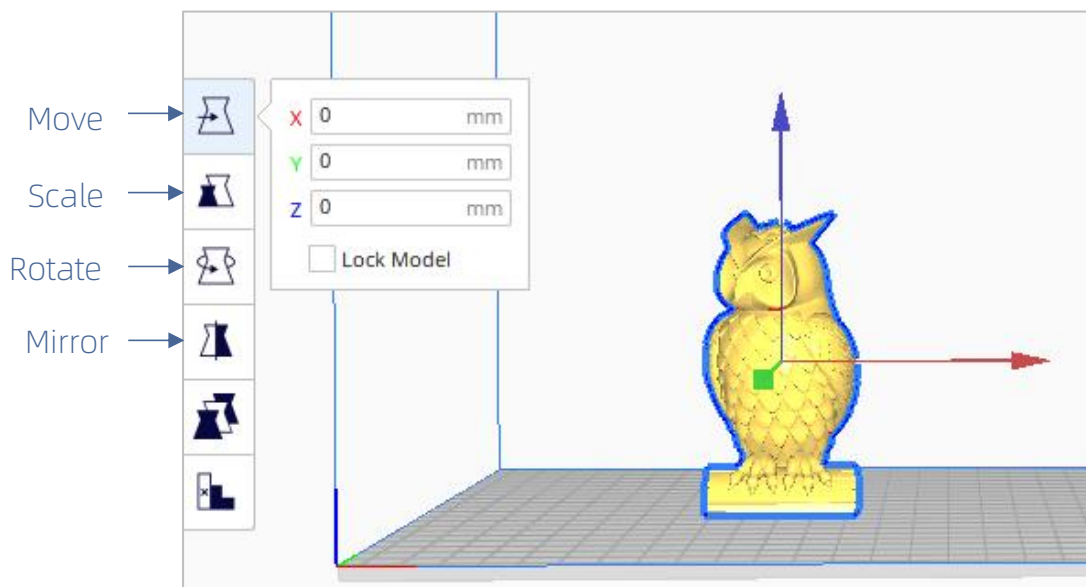
4. Manipulate 3D model in Cura

* Model files can be downloaded from www.anycubic.com (ANYCUBIC website) and www.thingiverse.com.

(1) Click the open file button in the top left corner to import the model file or directly drag the file into the software.



(2) Left click the model to activate the adjustment tool on the left side of the interface. Choose one of the adjustment tool, and then click and drag the controls on the model to adjust it.



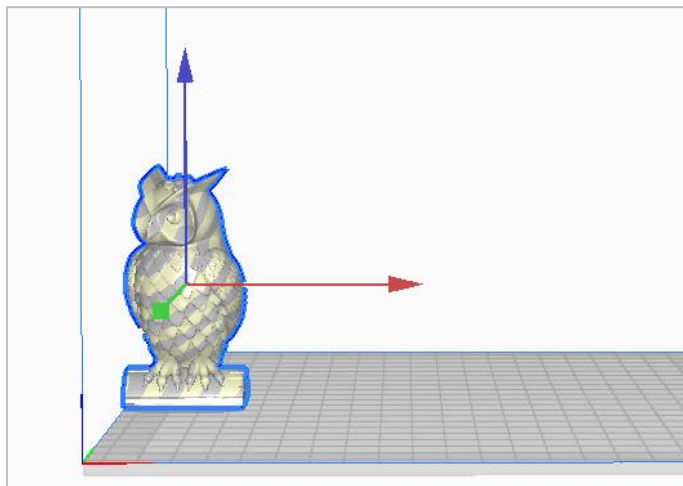
The model name: owl

The author of the model: etotheipi

Other operations:

- ① Press the mouse wheel and move the mouse to move the platform.
- ② Scroll the mouse wheel to zoom in and out the platform.
- ③ Right click and move the mouse to change the viewing angle.

* Note: When moving the model, make sure that the model is in the printable area. The color of the model in the following figure indicates that the model is out of print range.



5. Slice and Preview

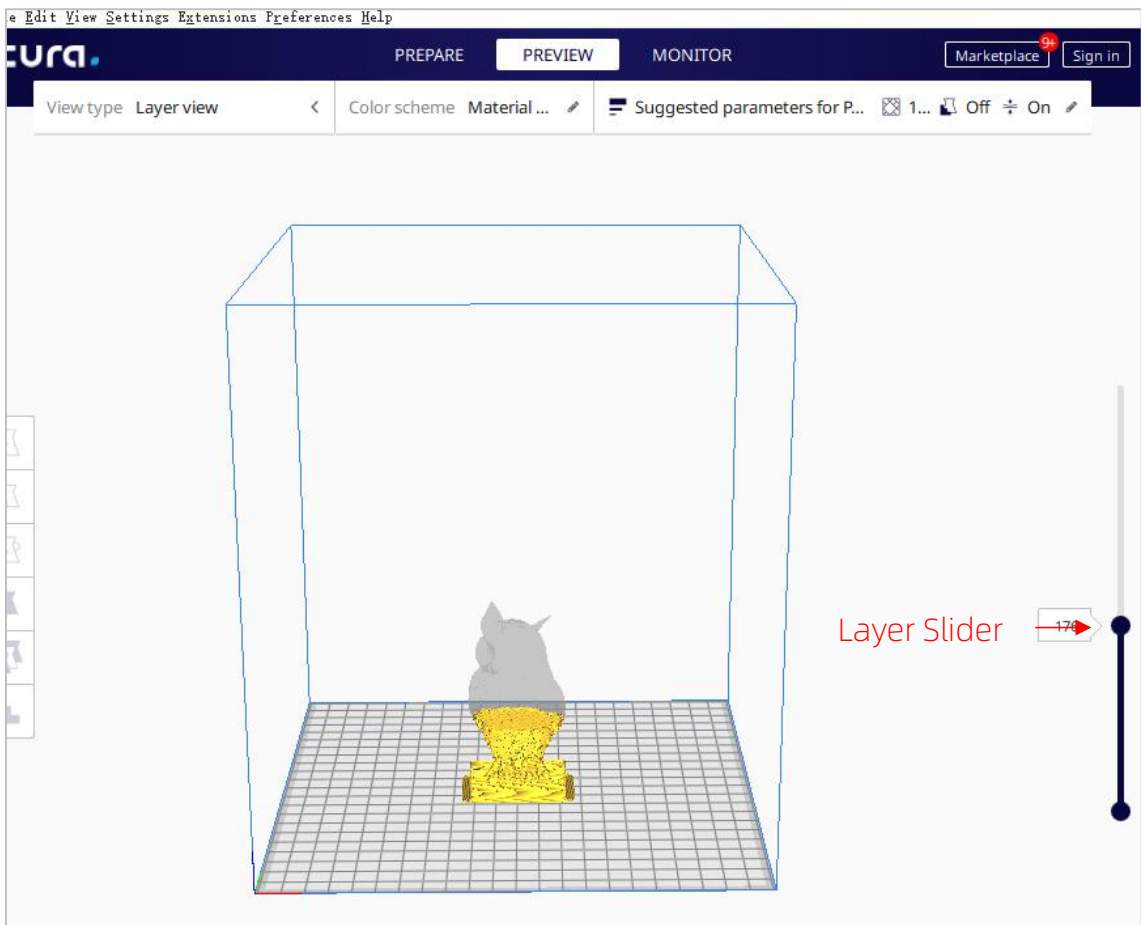
Now that the configuration and print settings are in place, it's time to slice the model. Click **Slice** button in the bottom right corner. When the process completes, it will immediately show a **Preview** button, click it to go to the preview stage.



Introduction to slicing software



Use the layer slider and simulation view to check important parts of your 3D slice.



6. Print offline and online

There are two operational modes for Anycubic Kobra Max: print offline and print online.

- **Print offline:** Insert memory card into the memory card slot, click on the Home Menu "Print" to enter the file list, and print a selected file (GCode files ONLY).
- **Print online:** Install CH340 driver to bridge PC and machine, and install Cura for slicing and control the machine to print via data cable.

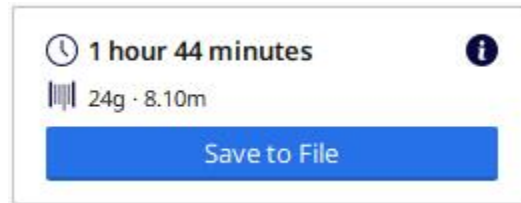


It is suggested to use **Print Offline** mode to minimize the noisy signal via data cable.

● Print offline (Recommended)

After slicing, click **Save to File** in the bottom right corner. Save the GCode file to the memory card, and then insert the memory card to the printer and control via the touchscreen for offline printing.

* GCode file name should only contain English letters, underscore and space. File name contains special characters could not be recognized by the printer. In order to let the printer better recognize the GCode file in the memory card, you need to back up all the files in the memory card to the computer, and keep the memory card only for the GCode file. Please save all the GCode files in root directory of the memory card.



● Print online

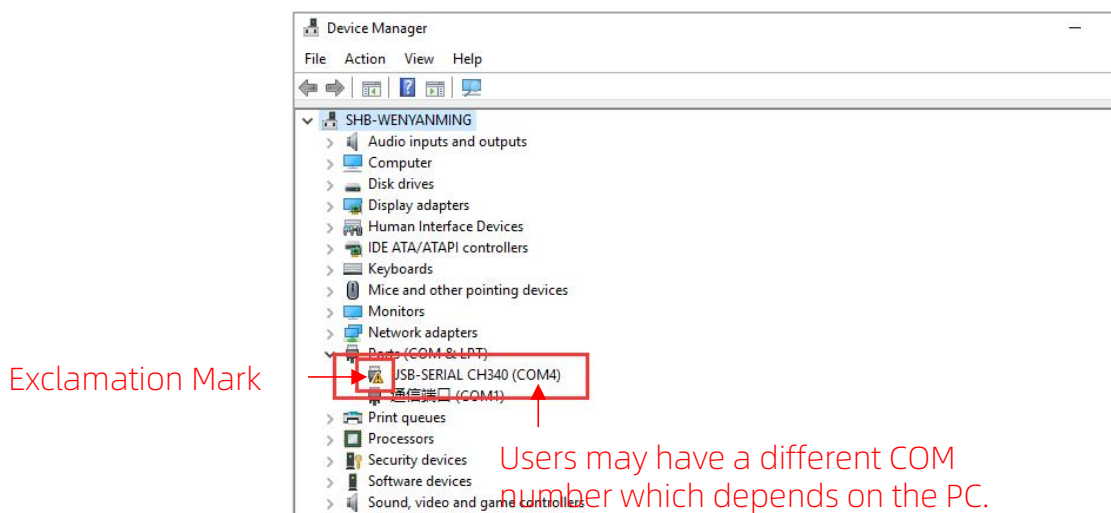
Printing online requires the installation of a driver. And you can control the printer through Cura after connecting the data cable.

(1) Turn on the machine, connect the printer (data cable port) and your PC via data cable. The driver may not be installed automatically, so it is required to check that. Right-mouse click "This PC" → "Properties" → "Device manager", if there is an exclamation mark as shown below, then it needs to be installed manually.

* Anycubic Kobra Max uses CH340 chip for communication.

* CH340 driver file path: "Files_English_Ancubic Kobra Max" → "Driver_CH341".

There are two versions, Windows and Mac version. (* CH341 driver file is suitable for CH340 chip).



(2) Here we take Windows PC system for example. Double click “CH341SerSetup.exe” and follow the wizard to install it. **If the driver has installed automatically in step (1), skip this step.**

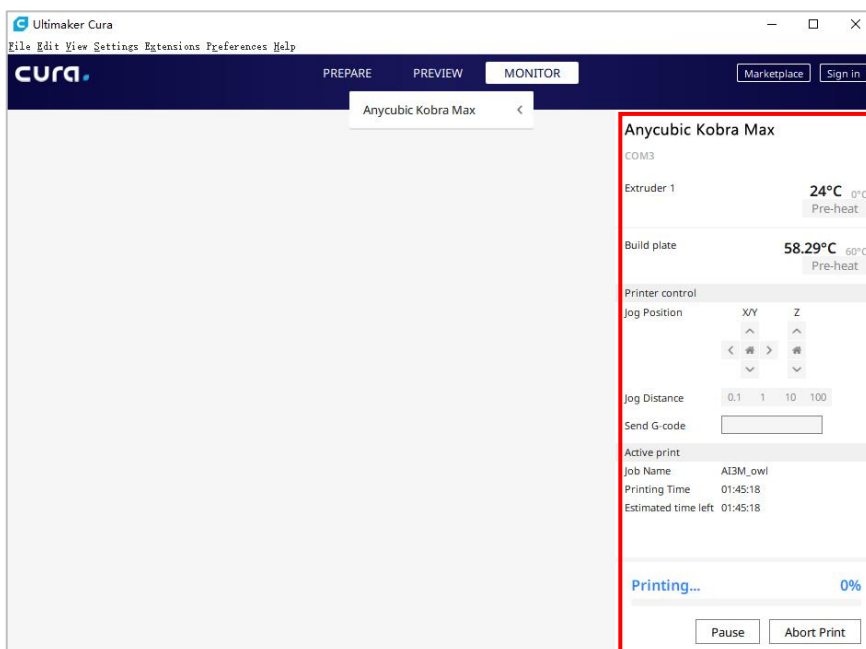
* After the installation is completed, refer to the method in step (1) to see if the driver has been identified (no exclamation mark).

(3) After slicing, click **Print via USB** in the bottom right corner to go to the monitor stage. After waiting for about ten seconds, the operation panel will be displayed on the right side of the interface. And the printing platform will be heated up for printing.

* If the printer is not connected properly, the Monitor interface will be blank. Please plug the data cable to connect again.

* In the process of printing, do not plug the data cable, or it will interrupt the printing.

* In case of abnormal sound during the printing process, you can directly turn off the power of the machine. Please check the Troubleshooting chapter for more detail or contact Customer Service.



Resume from Outage

In case of a power loss during printing, the machine will automatically save the printing status. After restarting, you will see the interface shown below, please click "Continue" to continue your printing or "Cancel" to cancel it.



Tips: Before resuming, please clean the excessive filament on the nozzle and model to avoid affecting the printing quality.

It is necessary to perform routine maintenance to the 3D printer to achieve consistent and quality results.

Some maintenance suggestions are shown as below:

1. Clean the nozzle with a needle under preheating conditions. If the filament residue in the nozzle could not be cleared 100%, please replace the nozzle.
2. Regularly add lubricating oil to smooth rods, linear bearings, lead screws, brass nuts, etc. It can minimize the wear-out failure of those moving parts.
3. Regularly clean the filament residue and dirt on the nozzle, platform, guide rail, motor, fan, etc.
4. Pay attention to the wear conditions of the D-shape wheels. Although they could be used for long time, please replace the D-shape wheels if they have been wore-out.
5. After finishing a printing, clean the printing platform to ensure the adhesion of the bottom layer of the model for next printing.
6. Check the belts regularly and tighten them if necessary.

1. Motor shaking or abnormal sound

- ① The corresponding limit switch could not be triggered when home. Please check the wirings, and inspect any obstacles by manually moving the corresponding axis.
- ② The motor cable are not connected properly. Please Check each connection and then inspect the cable routing for any faults.
- ③ Drive current is too large / small (please contact customer service).
- ④ The motor is damaged.
- ⑤ The motor driving wheel is loose.
- ⑥ The belt is loose, please check the belt tension at each position of X/Y/Z. And whether the belt is slippery during motor movement or not.

2. File not printing or memory card failure

- ① Remove the memory card and insert into PC. Open the GCode files using text editor (eg. Notepad), and inspect if GCode is readable or not. If file contains of multiple “ÿÿÿ” symbol, then file has been corrupted. Try reformatting the memory card to FAT32 format and reloading the GCode file.
- ② Memory card is not readable, ensure file name does not contain special characters or Change memory card.
- ③ Touch screen freeze, reboot the machine and try again.

3. No extrusion or extrusion motor knocking

- ① Filaments tangled on spool or the Teflon tube is out of shape. Please straighten out the filaments and Teflon tube, and pull the filaments to observe whether the resistance is normal.
- ② Ensure that the nozzle temperature has been set to match the filament. (PLA is generally set at 190-210 ° C, and ABS set at 230-240 ° C)

- ③ Nozzle clogged. Please try to briefly heat the print head to a temperature higher than 230°C and manually push the filament into the extruder. You can also clean it with 0.4mm nozzle cleaning needle. If it doesn't work, you may need to replace it.
- ④ Not enough cooling for the hotend.
- ⑤ The printer has been working above the maximum speed for a long time, please reduce the speed.
- ⑥ Check whether the extruder is normal and whether the friction force of the extruder to the filament is sufficient. Try to tighten or clean the extruder wheel.

4. Filament leaking

- ① Nozzle, heating block or throat tube is not tightened properly, try to fix/replace it after cooling or contact customer service.

5. Layer shifting

- ① Print head moves too fast, please slow down the print speed.
- ② Check the belts and driving wheels and ensure they are properly installed.
- ③ Drive current is too small.

6. No sticking to the bed

- ① The nozzle is too far from the platform, please try to re-level; at the same time set the "initial layer thickness" to 0.2 in Cura, and set the "initial layer line width" (for example, set to 150) to improve the first layer adhesion.
- ② Print too fast at the bottom layer speed, reduce it to ~20mm/s
- ③ Ensure that the print platform is clean
- ④ Add a brim or raft to the model in slicing software

7. Freezing screen

- ① Please check if the soft cable above the screen is loose.
- ② Inspect if the touchscreen has been pressed by something.
- ③ Check if screen has cracks, if so, please contact our after sale service via official website www.anycubic.com

8. T0 sensor abnormal

- ① Check the wiring of the hotend and ensure a good connection.
- ② Check if there is any pins bent inside the connector.

9. Print head move abnormal

- ① The setting of machine type in slicing software is wrong. Please see page 44 to check the right setting.

10. Print stopped halfway

- ① Use print offline mode (memory card) instead of print online via data cable.
- ② Check if the GCode file is corrupted.
- ② Delete plugins in the GCode file.
- ③ The quality of the memory card is unstable. Try changing another brand memory card.
- ④ The power supply voltage is unstable. Please print again when the voltage is stable.

11. Some of the structure of the model cannot be printed

- ① If your model includes overhangs or bridges, you may need to add support on the model or adjust the angle of the model in the slicing software. It is recommended to preview the print layer to check the printability of the model.

12. Drawing is more serious

- ① The retraction distance is insufficient. It should be set larger in the slicing software.
- ② The retraction speed is too slow. It should be set a bit faster in the slicing software.
- ③ The printing temperature is too high, which causes the fluidity and viscosity of the filament to be strong. The printing temperature needs to be set a little lower.

13. Nozzle is too low or too high when printing

- ① Nozzle is too close to the platform, resulting in insufficient extrusion of filament. Click "Settings" → "Z offset +" to rise the nozzle.
- ② Nozzle is too high and the gap is large, which lead to poor adhesion of filament to the platform. Click "Settings" → "Z offset -" to lower the nozzle.

ATTENTION

1. Anycubic 3D printer generates high temperature. DO NOT reach inside of the printer during operation. Contact with extruded materials may cause burns.
 2. Use high temperature resistant gloves when operating the product.
 3. This equipment is not suitable for use in locations where children are likely to be present.
 4. The fuse rating for the printer is 250V 10A. Never replace the fuse with one of a higher amperage, otherwise it may cause fire.
 5. The socket-outlet shall be easily accessible.
-

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