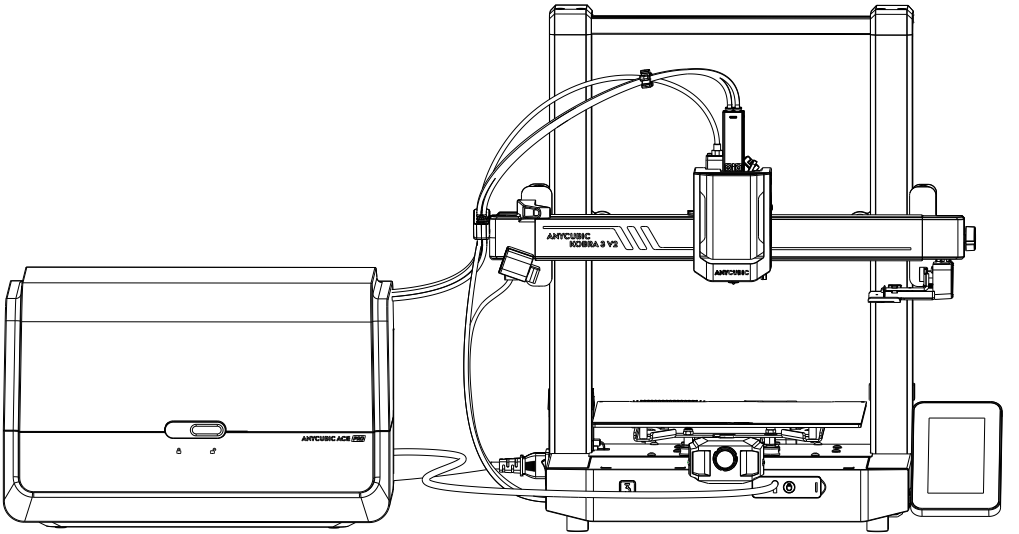
Anycubic Kobra 3 V2 Combo
User Manual



Installation Video

The product picture is for reference only. Please refer to the actual product.

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 APP

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Team ANYCUBIC

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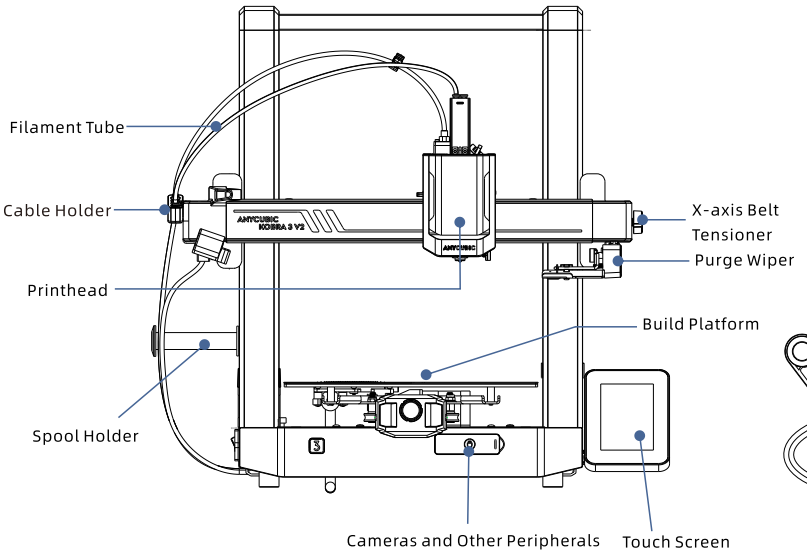
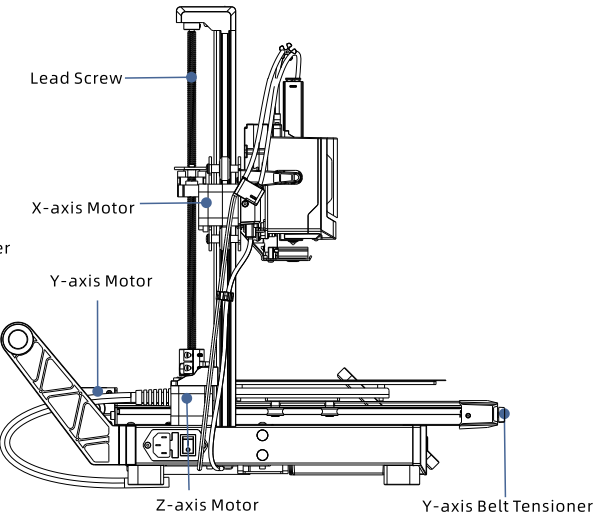
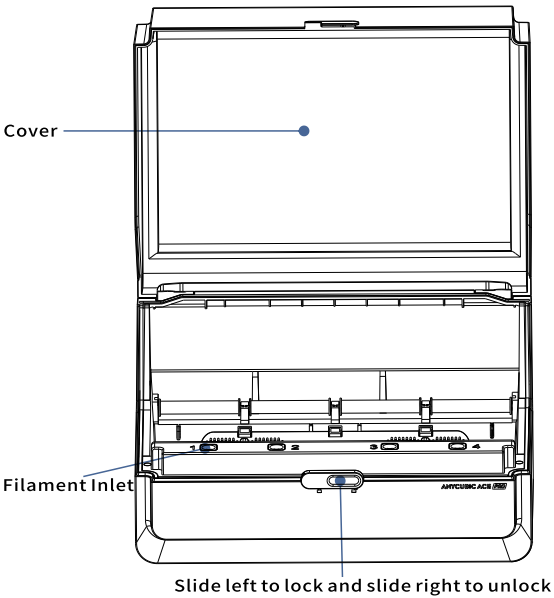
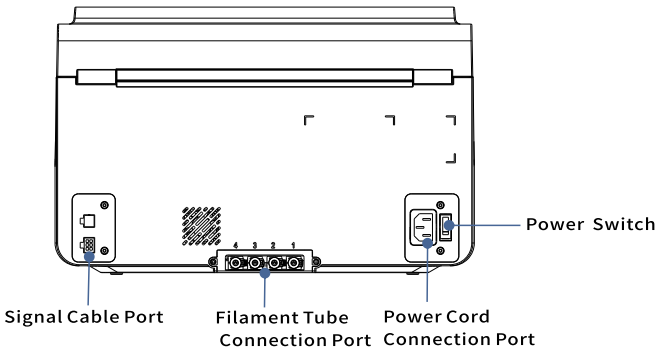
Product Overview





Product Overview

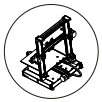


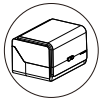


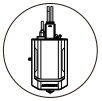
Avoid using ACE Pro to print flexible materials, including TPU, TPE, or absorbent PVA, avoid using materials that are too hard (too high modulus) or too brittle (not enough toughness), please use external spool holder to print these filament.

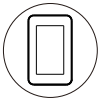
Packing List

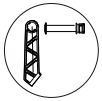
The following pictures are for reference only. Please refer to the actual object.


Printer

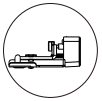

ANYCUBIC Color Engine Pro (ACE Pro)


Printhead

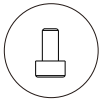

Touch Screen

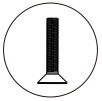

Spool Holder

Cable Holder


Purge Wiper

Bag NO.1
M2*14 (2pcs)


Bag NO.2
M3*6 (4pcs)


Bag NO.3
M4*16(2pcs)

Bag NO.4
M3*10(1pcs)
M3*8(1pcs)

U-DISK
(1pcs)

Power Cord
(2pcs)

Signal Cable
(1pcs)

Cable Organizer
(4pcs)

Filament Tube
(5pcs)

Wrench
(1 set)

4.0/3.0/2.5/2.0/1.5

Filament

Grease

Nozzle Cleaner

Camera Assembly

Technical Specification

Printing

Technology: FDM (Fused Deposition Modeling)
Build Size: 255 mm (L) × 255 mm (W) × 260mm (H)
Layer Thickness: 0.08 - 0.28mm
Hotbed Temperature: Max 110℃
Extruder Quantity: Single
Nozzle Diameter: 0.4 mm
Supported Materials: PLA/TPU/PETG/ABS etc.

Software

Slicing Software: Anycubic Slicer/Prusa Slicer/Cura/Orca
Software Input Formats: .STL/.OBJ
Software Output Formats: GCode
Connectivity: U-DISK, AC Cloud, Anycubic Slicer

Electrical

Power Input: 110 V / 220 V AC, 50 / 60 Hz
Rated Power: 400 W

WIFI

FrequencyBand:2.46(2.400-2.4835GHz)
Working Mode: AP STA,AP+STA

Physical Dimensions

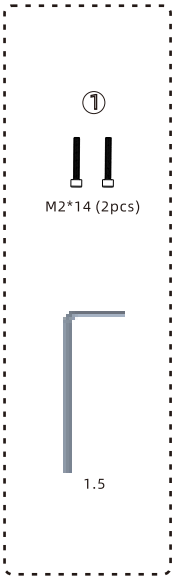
Printer Dimensions: 452.9mm (L) × 504.7mm (W) × 483 mm (H)
Printer Dimensions (including spool holder and build platform movement range): 525.8mm (L) × 521mm (W) × 483 mm (H)
Net Weight: ~9.37kg
ACE Pro Dimensions: 365.9mm (L) × 282.8mm (W) × 234.5 mm (H)
ACE Pro Net Weight: ~4.6kg

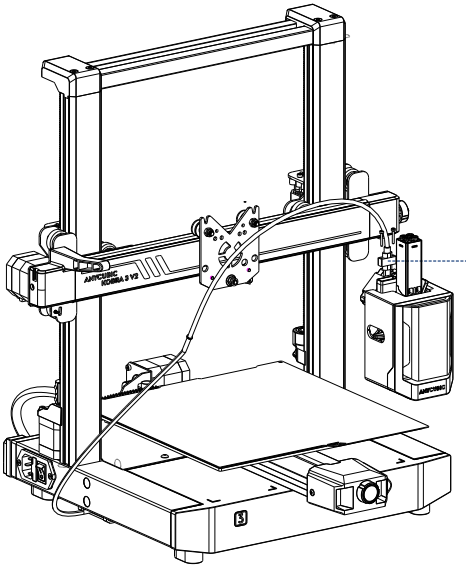
Machine Installation

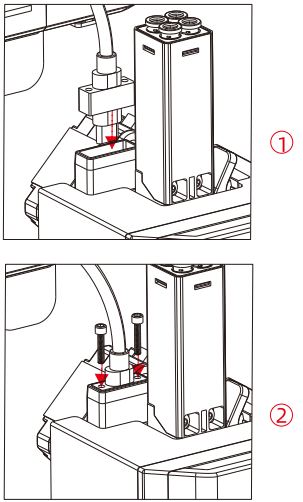
For the installation instruction video, please scan the QR code on the right.

01 Connect Printhead Cable

1. Press the printhead cable (Orange Type-C long cable) down and insert it into the slot above the printhead.
2. Secure the cable with the screws from bag No. 1.



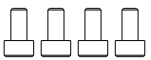




02 Install Printhead

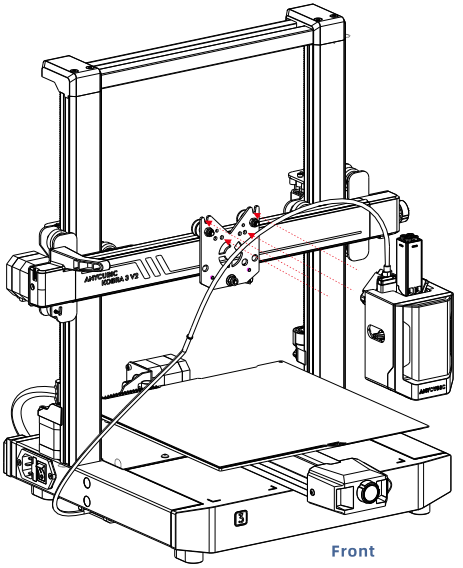
Install the printhead from the back of the printer. Use the No. 2 bag screws to secure the print head by turning it clockwise in the position shown in the figure.
It is recommended to first tighten the two screws at the top and then the screws at the bottom.

②



M3*6 (4pcs)

2.5



Front

Note: Please install screws in the holes highlighted in white.

Back

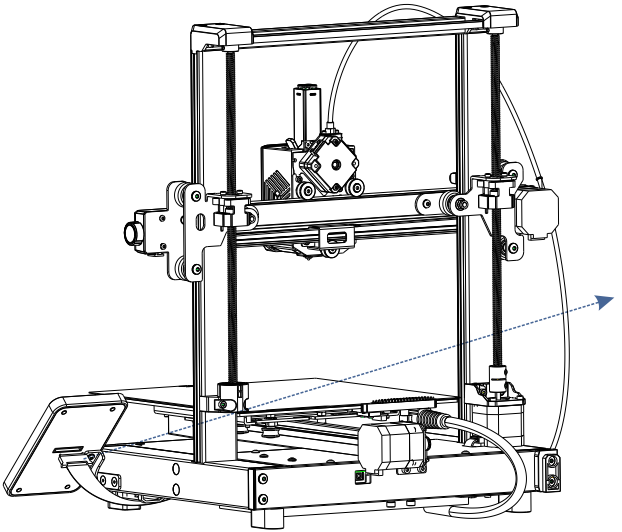
03 Install Screen

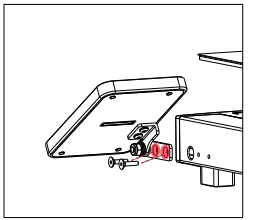
1. Use No. 3 bag screws to install the screen .
2. Plug the FPC cable into the port behind the screen by pressing the terminal.

③

M4*16 (2pcs)

2.5





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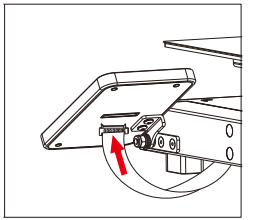

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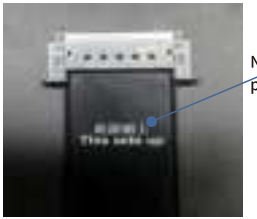
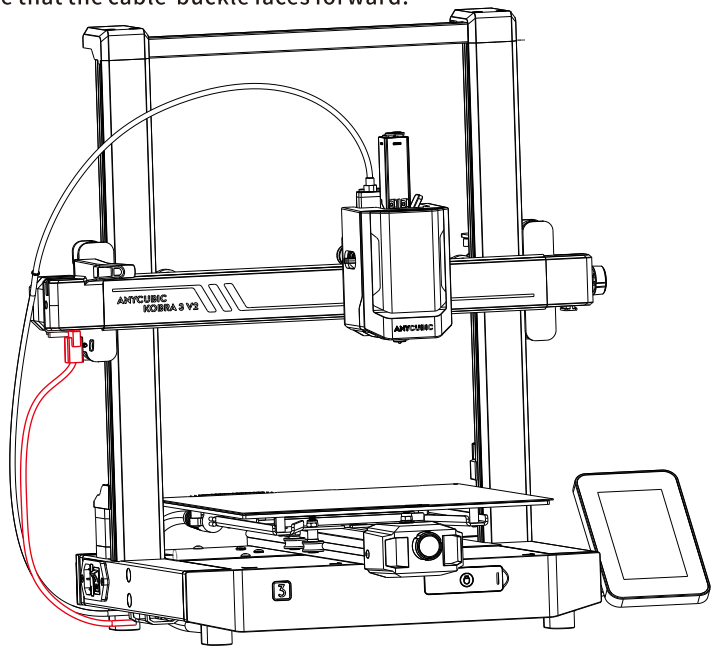
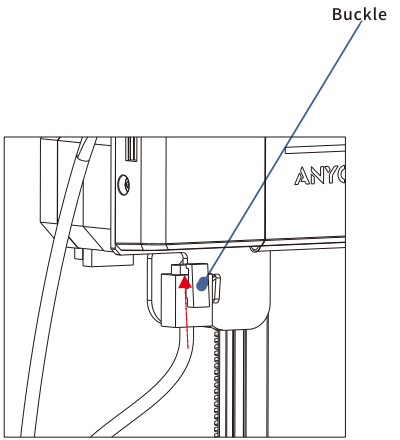


Note: When installing the FPC cable, please make sure this side is facing up.

04 Connect the X-axis Motor Cable

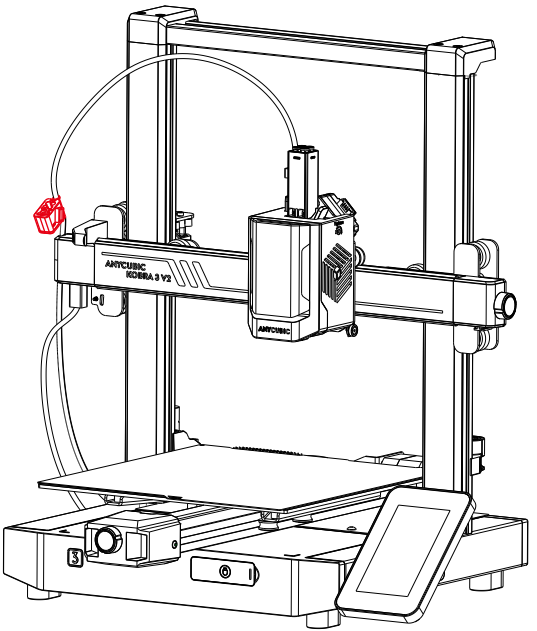
Insert the motor cable (Orange 6 Pin short cable) upward into the bottom groove on the left side of the X-axis to tighten it. Note that the cable buckle faces forward.

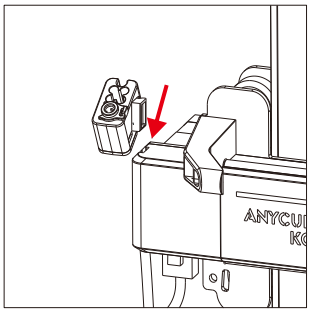




05 Install Cable Hoder

1.Press down the cable holder to secure it to the groove on the left side of the X-axis.
2.Insert the printhead cable into the cable holder.





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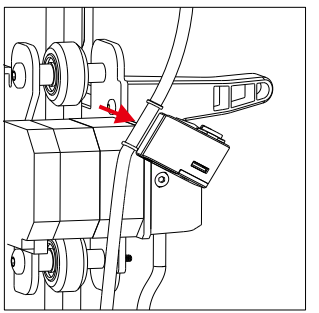
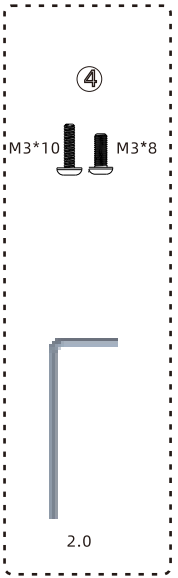
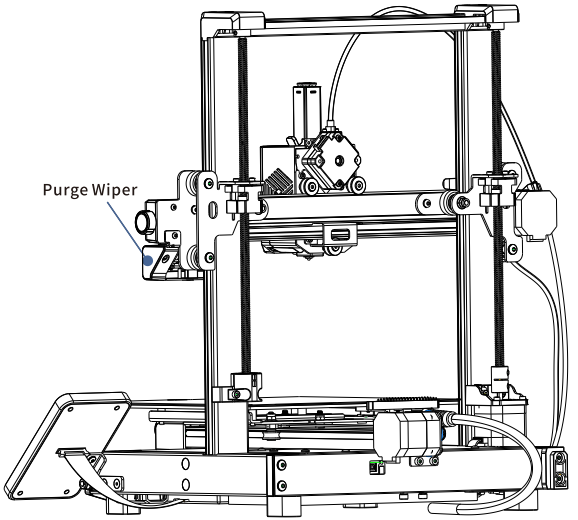


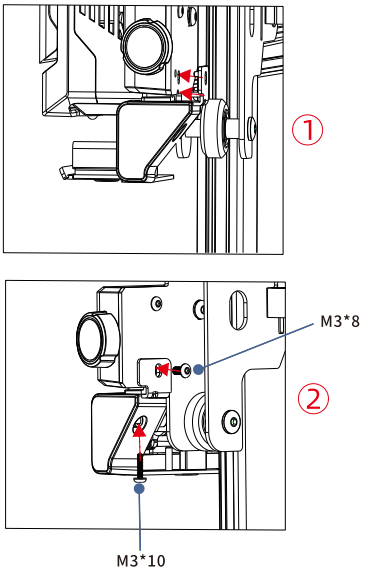
②

06 Install Purge Wiper

1.Slide the purge wiper from the back to the front into the groove on the rear side of the X-axis.
2.Use the No. 4 bag screw to secure the purge wiper from the back and bottom of the X-axis.

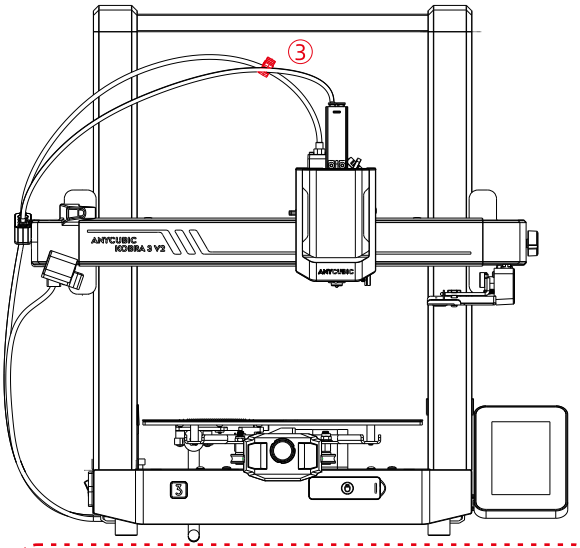


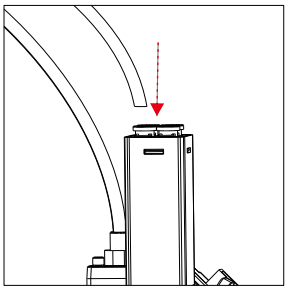


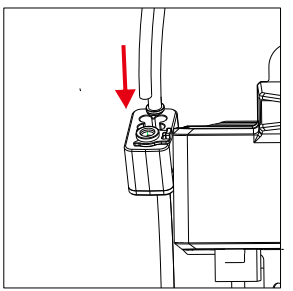


07 Install Filament Tube(skip this step if printing in multiple colors)

1. Insert one end of the Individually packed short filament tube into the hub above the print head and the other end into the cable holder.
2. Snap the filament tube and printhead cable into the cable organizer.



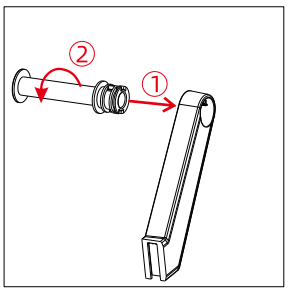


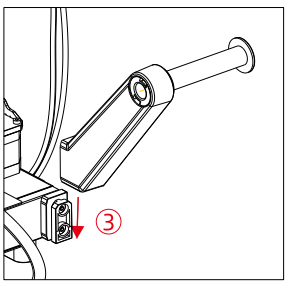


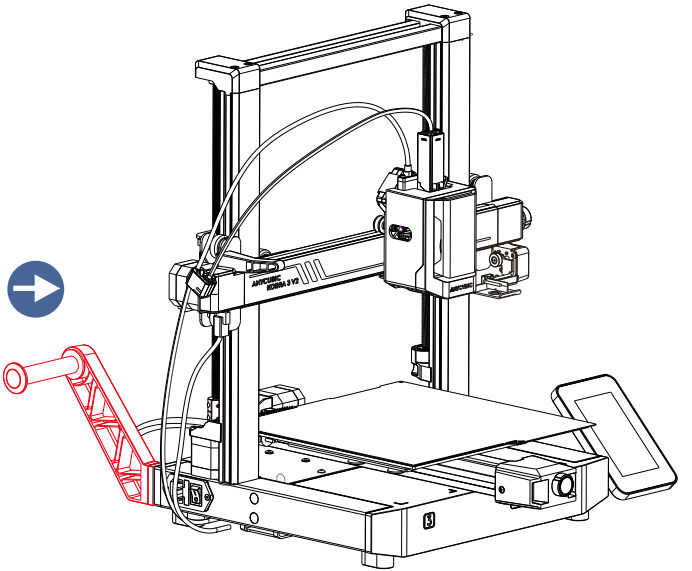
Note:
If the filament tube cannot be inserted into the cable holder successfully, you can first remove the blue **retainers** on the cable holder, insert the filament tube, and then put the blue **retainers** back to its original position.

08 Install Spool Holder(skip this step if printing in multiple colors)

1. Put the cylindrical handle into the spool holder hole, and then rotate it at a certain angle to fix it.
2. Press the spool holder down and insert it into the groove behind the printer base.

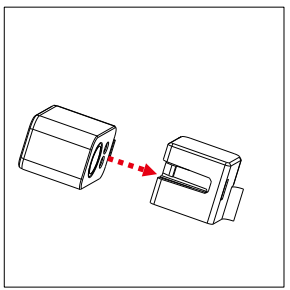






09 Install Camera

1. First print out the camera bracket with the printer and combine it with the camera (This model is already built into the machine).
2. Install the camera using the screws in the camera assembly.



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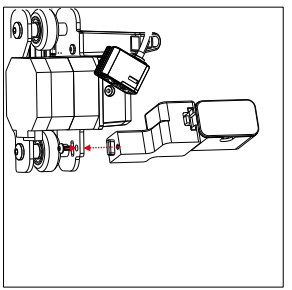

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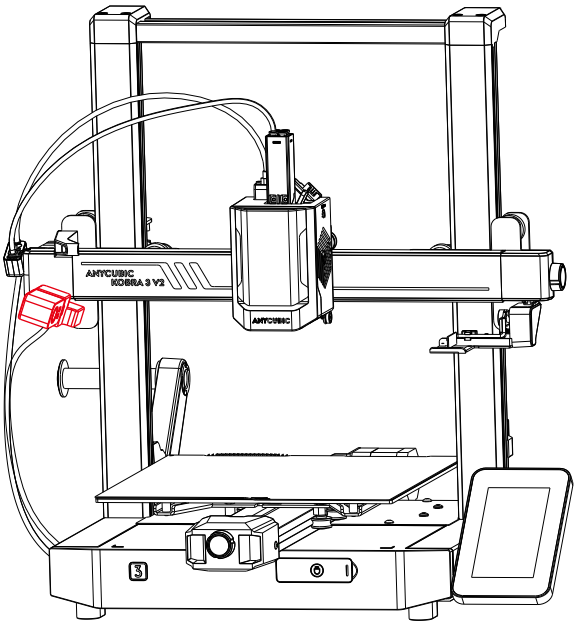
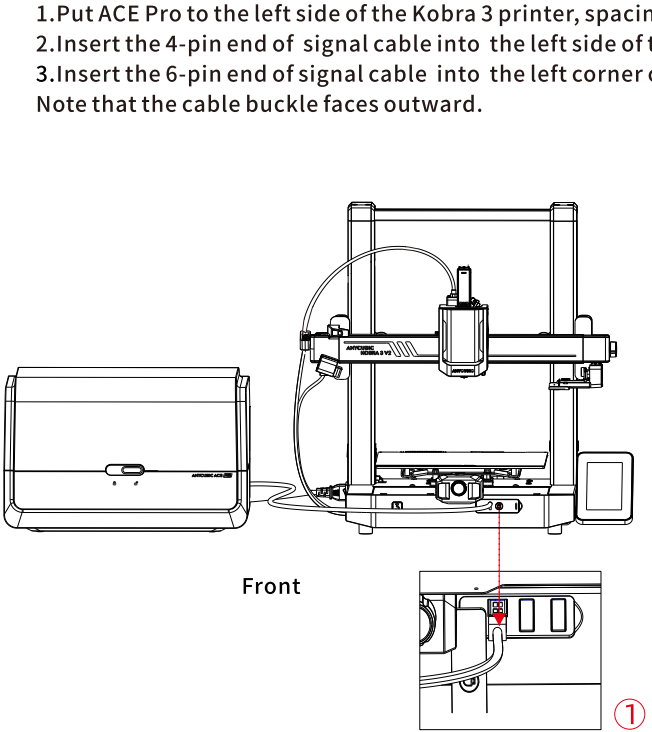
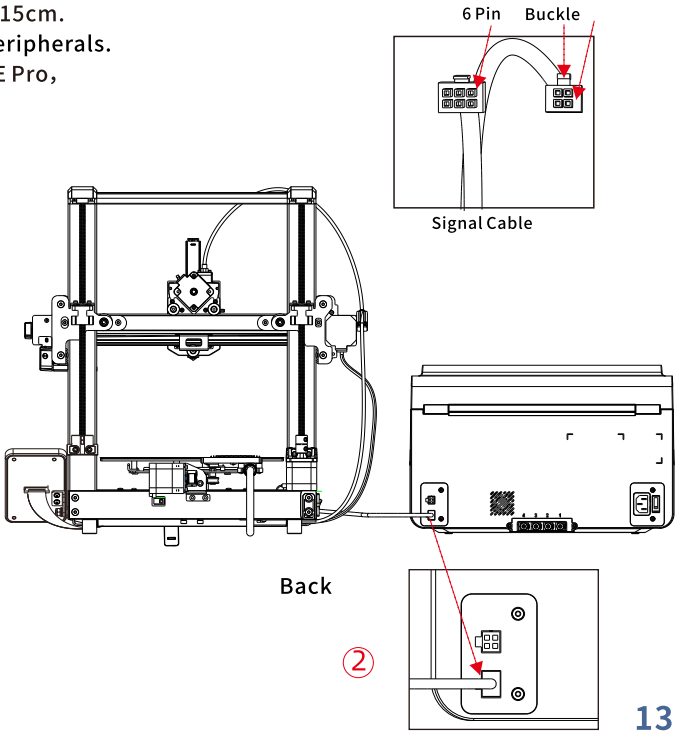


10 Install ACE Pro

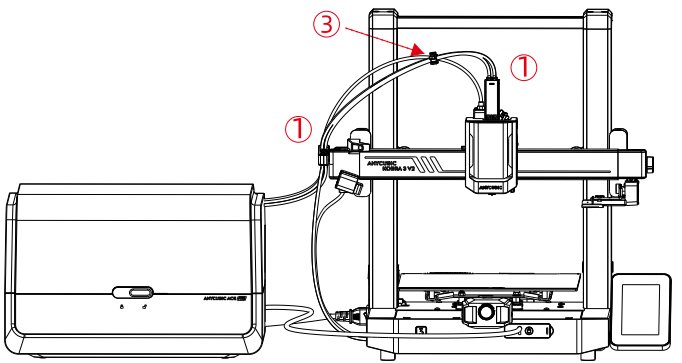
1.Put ACE Pro to the left side of the Kobra 3 printer, spacing 10-15cm.
2.Insert the 4-pin end of signal cable into the left side of the peripherals.
3.Insert the 6-pin end of signal cable into the left corner of ACE Pro,
Note that the cable buckle faces outward.



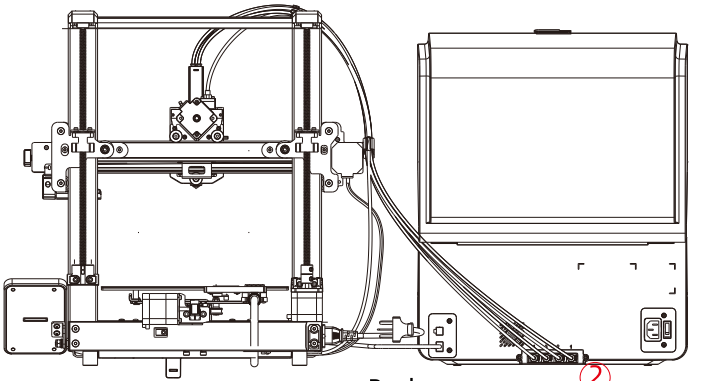


10 Install ACE Pro

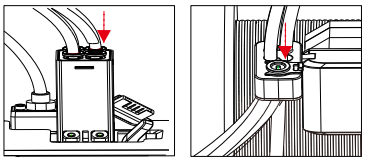
1. Insert one end of the filament tube into the printhead filament hub, and pass the other end through the cable holder on the left side of the printer.
2. First, remove the four blue clips from the connection ports, Insert the filament tubes into the ports, then reinstall the four blue clips back into their original positions.(Note: filament tubes are matched in no order).
3.Use cable organizer to secure the cable.

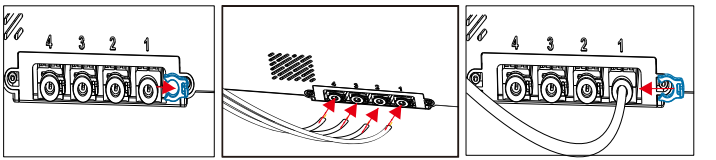


Front



Back

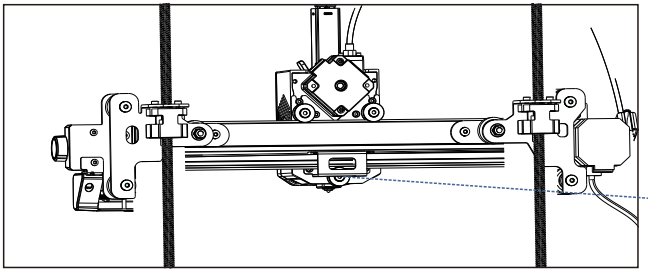




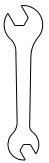
Check Before Use

1.Pulley elastic adjustment

Check if the print head is shaking. If it is, adjust the hexagonal isolation column located underneath the print head until it slides smoothly and without shaking.

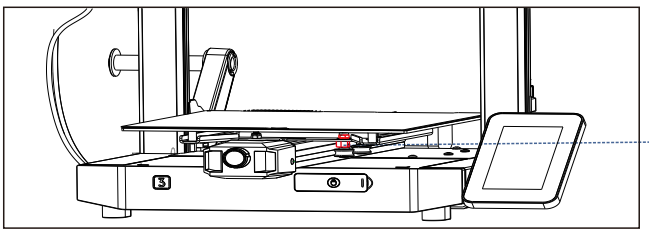


Print head



Adjust the hexagonal spacer behind D-wheel

Check if the print bed is shaking. If it is, adjust the hexagonal isolation column located underneath the print bed until it slides smoothly and without shaking.



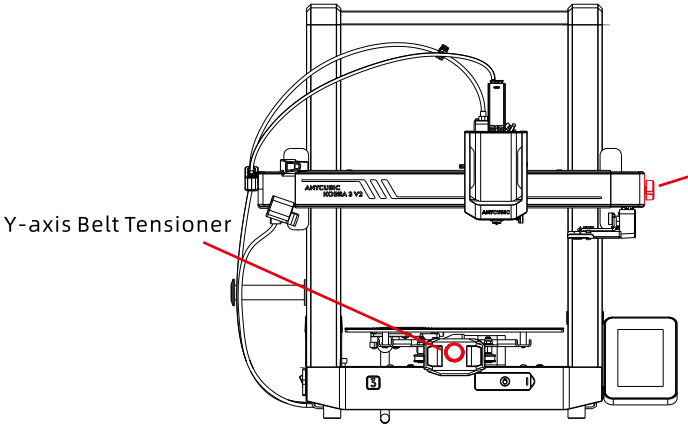
Platform

Adjust the hexagonal spacer on the Y axis

Similarly, the pulleys on both sides of the gantry frame can also be adjusted.

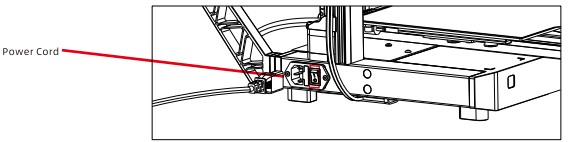
2.Belts

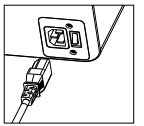
Please manually move the printhead and print platform. If there is any difficulty or abnormal noise during the movement, adjust the tensioner to ensure smooth sliding of the printhead or platform.



3.Connecting to Power

Connect the printer and ACE Pro to power outlet with the power cable, then power the printer.





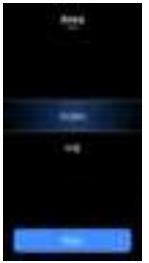
Backside of ACE Pro

Note:
1.When inserting the power cord, please avoid crossing it with the print head cable to prevent interference.
2.Before turning on the power, please check the printer power level matches the local voltage .

Power-on Guide(when ACE Pro is not connected)

① Language

② Area



③ Network

④ Cloud

⑤ Complete Setup

⑥ Insert U-Disk

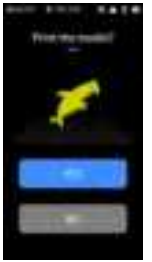
⑦ Self Test

⑧ Auto-Level

⑨ Load Filament

⑩ Vibration Compensation

⑪ Print The Model



Note: The current interface is for reference only. Due to ongoing feature upgrades, please refer to the UI of the latest firmware release for accurate information.

Power-on Guide(when ACE Pro is connected)

① Language

② Area

③ Network

④ Cloud

⑤ Complete Setup

⑥ Insert U-Disk

⑦Self Test

⑧ Auto-Level

⑨ Load Filament

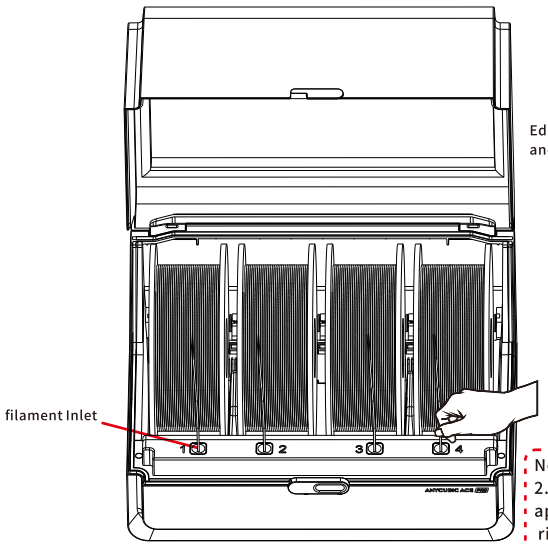
⑩ Vibration Compensation

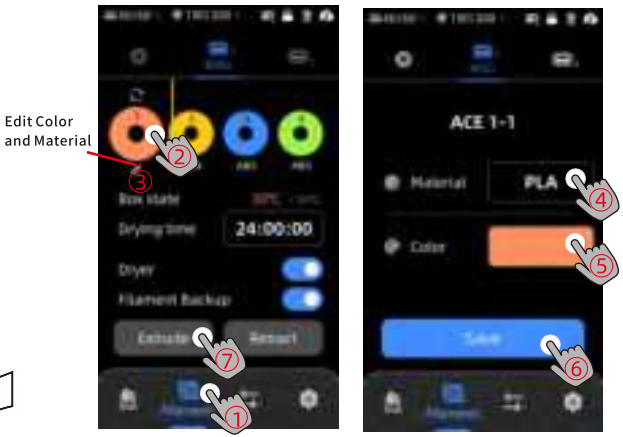
⑪ Print The Model

Note: The current interface is for reference only. Due to ongoing feature upgrades, please refer to the UI of the latest firmware release for accurate information.

Loading Filament

1. Place at least one roll of filament in ACE Pro.
2. Insert one end of the filament into the filament inlet, and ACE Pro will automatically pre-load the filament after detecting it.
3. Press the【Filament】interface, click to select a filament, and then edit mark will appear. Select the corresponding material and color and click save, If you use Anycubic RFID filament, the filament color and material will be automatically identified.
4. After completing the above operations, click【Extrude】, wait for the nozzle to heat to the preset temperature, and the filament will be extruded from the nozzle.

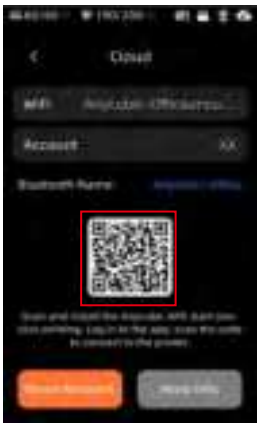




Note: 1. Before inserting the filament into the filament inlet, make sure to straighten the end of the filament.
2. It is recommended to use plastic filament trays first to achieve better printing smoothness. If you use p aper trays, the tray may slip and produce debris due to friction. It is recommended to use it with an adapter ring. (Please download the adapter ring from Makeronline)

Printer Binding

1.Please connect the printer to the network first.
2.Scan the QR code on the printer screen, QR code path:【Settings】-【Cloud】, download the ANYCUBIC App, register and log in to the ANYCUBIC account.
3.Open ANYCUBIC App, click [+Initiate printing], click [Scan], and scan the QR code on the printer screen to bind ANYCUBIC account.

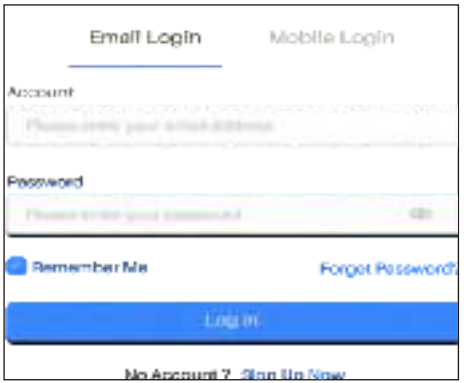


Software Installation and Binding

1.Software Installation Procedure
Open the attached USB drive and navigate into the path: \Files_English_Anycubic Kobra 3 V2 Combo\Anycubic Slicer, choose Windows /Mac to install the corresponding version, double-click on the Anycubic Slicer application to begin the installation .
2.Please connect the printer to the network before performing the following operations.
3.Anyubic Slicer Usage Instruction:
Open the attached USB drive and navigate into the path: \Files_English_Anycubic Kobra 3 V2 Combo\Anycubic Slicer \Anycubic Slicer_Usage Instructions

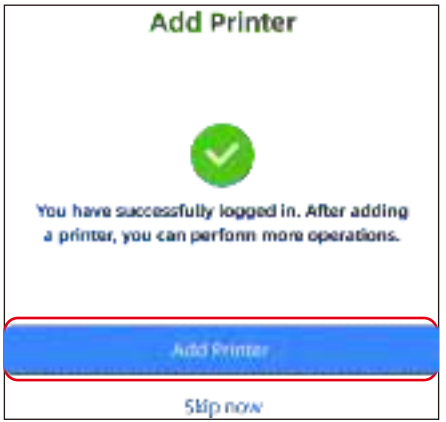
① After the software installation is completed, enter the main interface and click【Workbench】or【Log in to begin remote print】.

② If you already have an APP account, you can directly enter your account and password to log in. If not, click【Sign Up Now】.



Software Installation and Binding

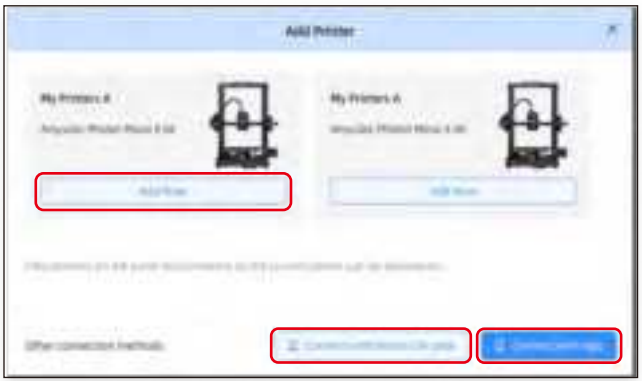
③Click【Add Printer】.



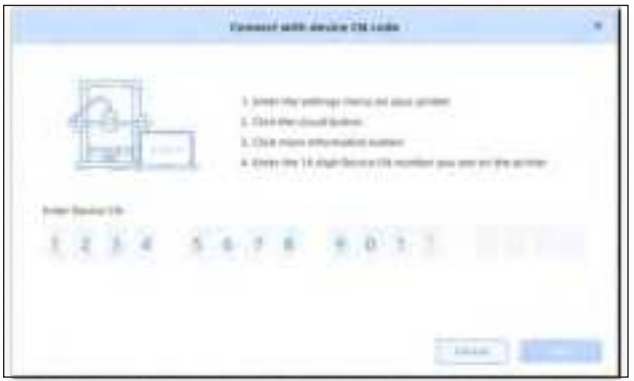
④Automatically find printers on the same LAN as the current device. If the APP has been bound to the machine and logged in to the same account, the information will be automatically synchronized.

Software Installation and Binding

⑤ Select the machine that needs to be bound in the automatic search results and click【Add Now】.
Multiple printers can be connected; if the search is not successful, please click【Connect with device CN code】or【Connect with APP】.



⑥ If the search fails, enter the CN code of the device to connect.
Find the CN code path: Select【Settings-Cloud Platform -More Information】on the printer.
You can view the CN code.



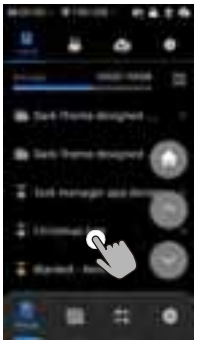
Note:
The software interface is subject to the latest version.

First Print

1) Select a model from the local or U-DISK and start printing.

*We recommend using one of the pre-loaded files as a first test print.

Makeronline QR Code: Models can be downloaded via Makeronline.



Select the model from local storage or U-DISK.

Print

Select color, press "Print".
Color Match: Map the actual filaments to the print file preset filaments

Printing in progress

Note：
1.The built-in model is subject to reality .
2.Please use similar colors to match the preset, otherwise the flush setting might be inaccurate.

Other Function Descriptions

Vibration Compensation: To achieve better printing results, it is recommended to perform a vibration compensation check after printing for more than 300 hours or when the machine has been moved. This feature helps reduce the occurrence of banding during high-speed printing. Regular vibration compensation checks help maintain the stability and accuracy of the printer, thereby improving print quality.

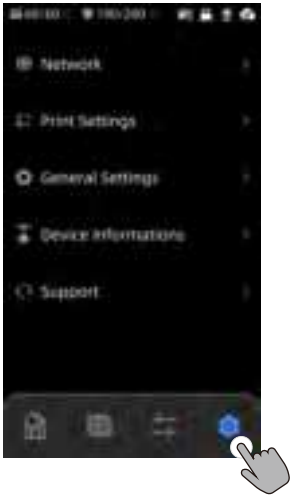
Press "Tools" - "Control" - “Vibration Compensation" and wait for the machine to complete the calibration. Please do not touch the machine during the calibration process.

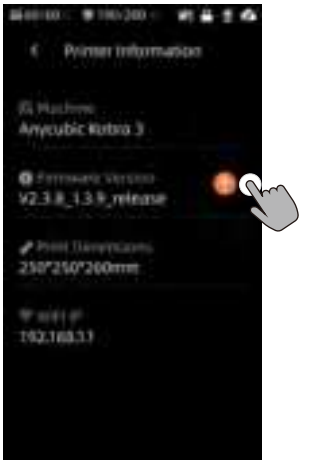
Filament Runout Detection: This function is designed to prevent printing failures when the filament runs out during the middle of a print. It alerts the user to replace the filament before continuing the print, effectively preventing wasted prints due to filament shortage.

Power Loss Resume:When printing using the filament holder, in the event of a sudden power outage or accidentally turning off the machine, this function does not require manual setup. Simply reconnect the power and turn on the machine You can then resume the print.

Upgrade Firmware

Click [Settings] - [Device Information] - [Firmware Version] and wait for the machine to complete the firmware upgrade.





Maintenance Recommendation

Z-axis Lead Screws

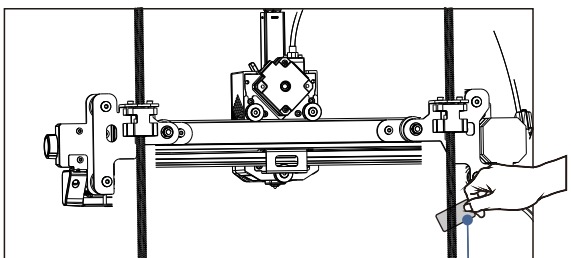
*The Z-axis lead screw needs regular lubrication, as proper lubrication ensures smooth movement. It is recommended to perform maintenance every three months.

Before applying lubricating grease to the Z-axis lead screws, it is important to clean them thoroughly, removing any dust or plastic particles. Then, using the axis movement controls, move the print head to a higher position. Apply a thin coat of lubricating grease on the Z-axis lead screws, and then home the printer again. You can repeat this movement process a few times to ensure the grease is evenly distributed over the Z-axis lead screws. Once completed, clean off any excess lubricating grease that may have accumulated near the leadscrew nuts.

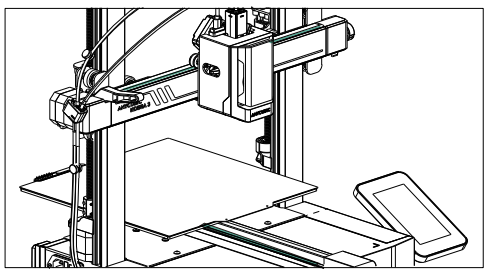
X/Y-axis double metal spindles

*The X/Y-axis double metal spindles require regular lubrication, as proper lubrication ensures smooth movement. It is recommended to perform maintenance once a month.

Before applying lubricating grease to the X/Y-axis double metal spindles, it is important to clean them thoroughly, removing any dust or plastic particles. Then, apply a thin coat of lubricating grease on the X/Y-axis double metal spindles and home the printer. You can repeat the movement process a few times to ensure the grease is evenly spread over the X/Y-axis double metal spindles.



Z-axis Lead Screws



X/Y-axis Double Metal Spindles

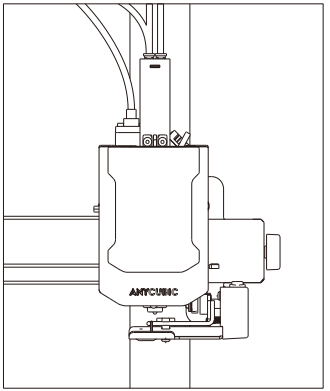
*Please scan the QR code for more maintenance information.

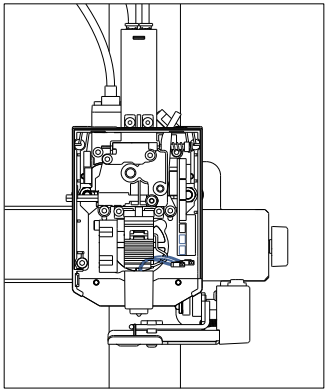
Maintenance Recommendation

Hotend Replacement Guide

Hotend Replacement

1. Before replacing the hotend, please cool down the nozzle first, click [Tools] - [Preheat] - [Cooling], wait for the nozzle temperature to drop below 40 degrees, and turn off the printer.
2. Press both sides of the print head lightly and pull the printhead front cover forward to remove it.
3. Gently pull the bottom black and white lines forward to remove them.

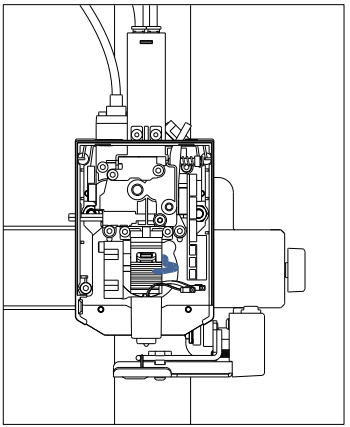


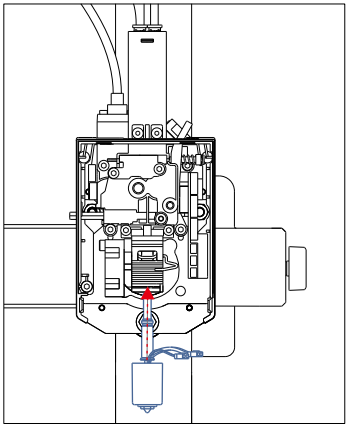


Maintenance Recommendation

Hotend Replacement

4. Pull the retaining spring forward to loosen the hotend.
5. Insert the new hotend upwards to the very bottom, and note that the white wire is at the front.
6. Press the retaining spring back to fix the hot end.
7. Plug the two wires back to their original positions, and note that the black wire is at the bottom .
8. After completing the above operations, close the front cover to complete the hot end replacement.





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.

If the above problems cannot be solved, please initiate consultation in our after-sales service system, and our engineers will reply you in the form of email within one working day.
(https://support.anycubic.com/)

Warm tips:
1. Fill in the information based on the SN of the corresponding model. The items with red dots are mandatory.
2. If the order is successful, you will soon receive a reply from the after-sales service system in your mailbox.
3. If you successfully place an order but do not receive an email, please watch out for spam.
4. If the order creation fails, please pay attention to the pop-up reminder on the web page.

EC REP

Name:Apex CE Specialists GmbH
Add:Habichtweg 1 41468 Neuss Germany
Contact:Wells Yan
Tel:+353212066339
E-Mail:Info@apex-ce.com

UK REP

Name:APEX CE SPECIALISTS LIMITED
Add:89 Princess Street,Manchester, M1 4HT,UK
Contact:Wells
Tel:+441616371080
E-Mail:info@apex-ce.com

RoHS

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