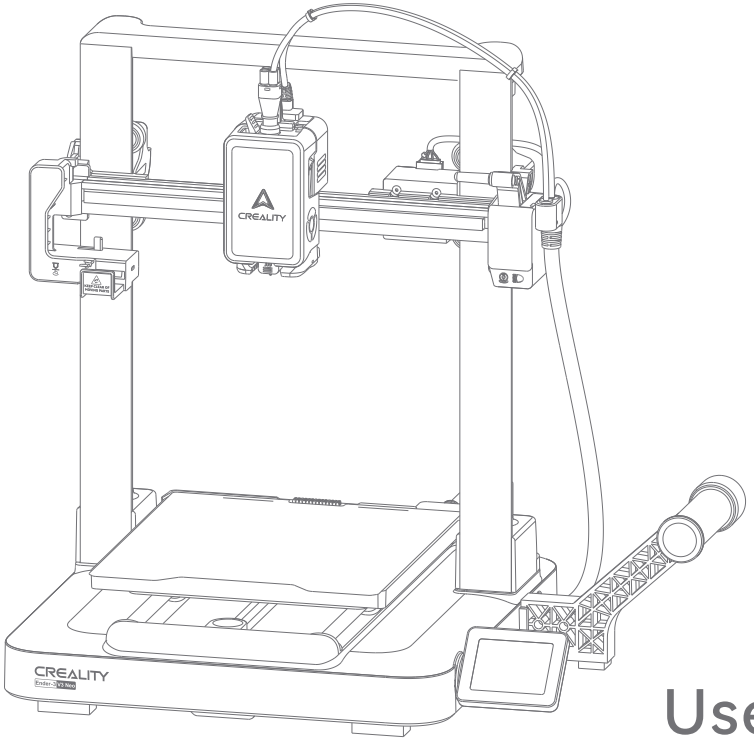
CREALITY

IMAGINE IT, MAKE IT



User Manual

Ender-3 V3 Neo 3D Printer

V 1.0_EN

Ender-3 V3 Neo

Dear Users

Thank you for choosing Creality products. This quick guide introduces the steps for unboxing, installation, and debugging. Please read it carefully before use.
For more detailed instructions, unboxing videos, and after-sales service tutorials, please visit the Creality Wiki platform.
The Creality team is always ready to provide you with quality service. If you encounter any problems during use, please contact us through the phone number and email provided at the end of this quick guide.

Bought a product but don't know how to use it?
Don't worry, all your confusions will be resolved!

Creality official Wiki

https://wiki.creality.com

- Comprehensive understanding of the new product, immersive exploration of its features.
- Detailed operation guides to help you get started effortlessly.
- Professional after-sales support platform offering efficient solutions.

Creality Cloud – Your 3D Printing Universe Awaits!
Discover the all-in-one 3D printing platform designed for all enthusiasts.

Creality Cloud App

https://www.crealitycloud.com

- Access a vast library of high-quality models.
- Built-in cloud slicing and Print Settings make printing easier than ever.
- Control remotely and print with just one click, anytime, anywhere.

NOTES

1. The printer should be operated by personnel who have received necessary training or possess the required knowledge and experience.
2. Installation and maintenance must be carried out by skilled personnel following the manufacturer's instructions and local safety regulations.
3. Do not use the printer in any way other than described herein in order to avoid personal injury or property damage.
4. Do not place the printer near any heat source or flammable or explosive objects. We suggest placing it in a well-ventilated, cool and dustless environment;
5. Do not expose the printer to a violent vibration or any other unstable environment, as this may cause poor print quality.
6. It is recommended to use officially recommended consumables to avoid printhead blockages and machine damage.
7. Do not replace the provided power cord with other products' power cords during installation; third-party cables may cause grounding failure and risk electric shock or fire. The power plug should be inserted into a three-prong outlet with a ground connection.
8. Do not touch the nozzle and the heated bed during operation to avoid burns or personal injury.
9. Do not wear gloves or wraps while operating the machine to prevent entrapment of movable parts that could cause crushing and cutting injuries to bodily parts.
10. Use the provided tools to clean the filament from the extruder in time taking advantage of the residual temperature after printing. Do not touch the extruder directly when cleaning, otherwise it may cause burns.
11. Clean the printer frequently. Clean the printer body with a dry cloth regularly after powering off the printer, wipe away dust, bonded print filament and foreign objects on the guide rails.
12. Children must be accompanied by an adult at all times when using or near the machine.
13. Users should comply with the laws and regulations of the corresponding countries and regions where the equipment is located (used), abide by professional ethics, pay attention to safety obligations, and strictly prohibit the use of our products or equipment for any illegal purposes; Creality will not be responsible for any violators' legal liability under any circumstance.
14. Tip: Do not plug in or unplug wires on a charged basis.
15.Creality places the highest priority on the protection of human life and safety. By using our products or services, you represent and warrant that the products or services acquired will not be used, directly or indirectly, for any purpose that may endanger the health or safety of individuals. This includes, without limitation, the design, development, manufacture, or distribution of weapons or weapon-related components.
16.The full text of the EU Declaration of Conformity is available at the following internet address https://wiki.creality.com/en/euro-compliance.
17.Hereby, SHENZHEN CREALITY 3D TECHNOLOGY CO., LTD declares that the radio equipment type is in compliance with Directive 2014/53/EU.



Hot parts!
Burned fingers when handling the parts
Wait one-half hour after switching off before handling parts



Caution!
Keep the interior of the machine clean
Avoid interference with operation caused by debris falling under the Z-axis platform



Warning!

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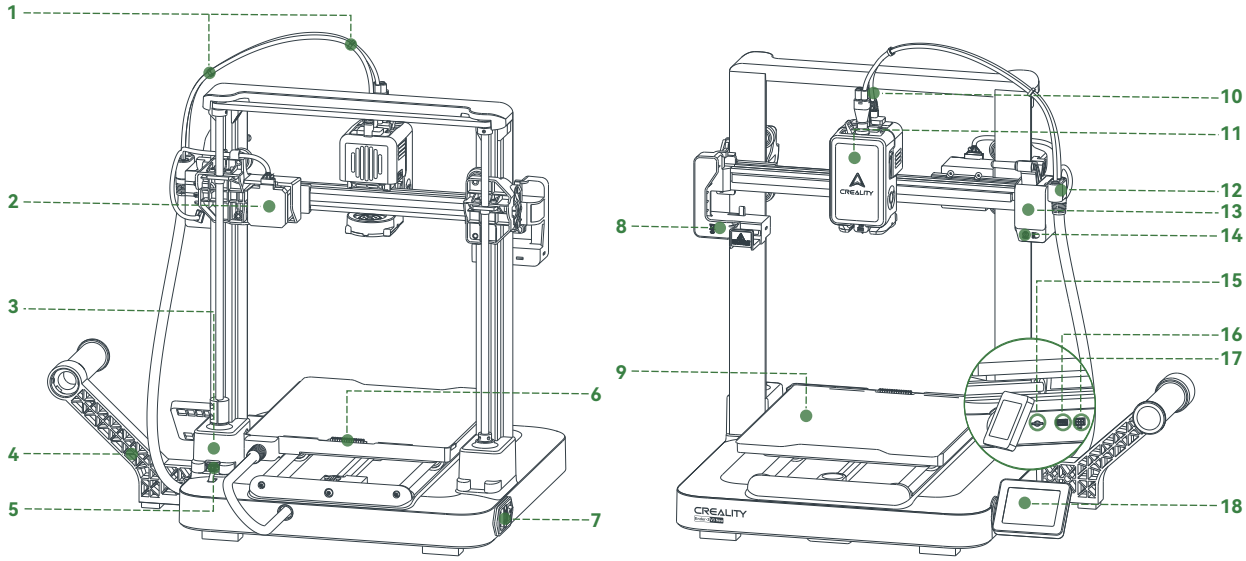
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1. Product Information

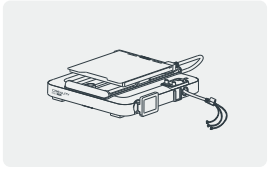
1.1 Product Overview



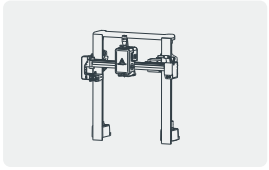
1. Wire Clip ×2	**5.** Z-axis Motor Cable	**9.** Build Plate	**13.** X-axis Motor Mount	**17.** 485 Port
2. X-axis Motor	**6.** Wiper Strip	**10.** Toolhead Cable	**14.** Camera	**18.** Touchscreen
3. Z-axis Motor	**7.** Power Inlet and Power Switch	**11.** Print Head	**15.** TF Card Slot	
4. Filament Holder Frame	**8.** Purge Bin	**12.** Filament Retainer Clip	**16.** USB Por	

1. Product Information

1.2 Package Contents



1 Base



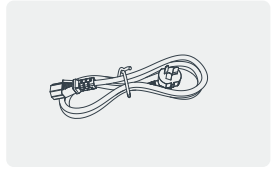
2 Gantry Frame



3 Filament Holder Frame

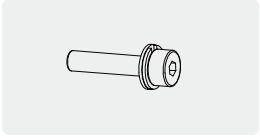


4 Spool Holder

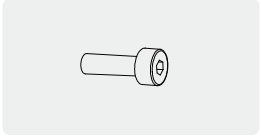


5 Power Cord

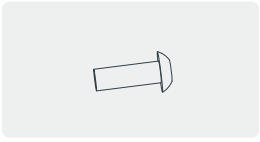
Accessory Kit



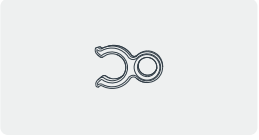
1 M3×14 Hex Socket Button Head Screw with Spring & Flat Washers ×6



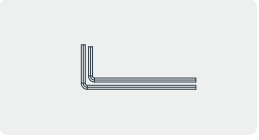
2 M3×6 Hex Socket Button Head Screw ×3



3 M4×16 Hex Socket Countersunk Screw ×4



4 Wire Clip ×2



5 Hex Key Set



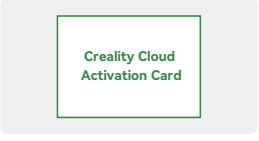
6 PTFE Tube



7 Nozzle Cleaning Needle



8 Quick Start Guide



9 Creality Cloud Activation Card

Note: The illustrations are for reference only. The actual product may vary.

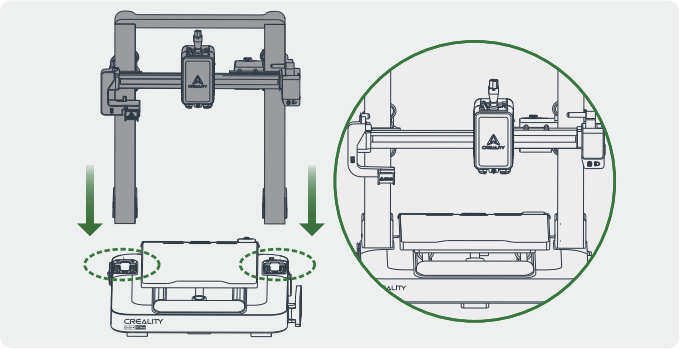
1. Product Information

1.3 Product Specifications

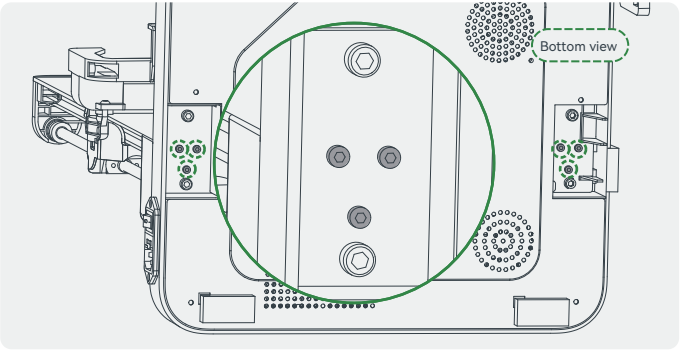
General Specifications	
Model	Ender-3 V3 Neo
Printing Technology	FFF
Build Volume	220*220*220mm
Bed Leveling	Fully Automatic, Area-Leveling Supported
Extruder Quantity	1 piece
Compatible Nozzle Diameters	0.2 / 0.4 / 0.6 / 0.8 mm
Layer Height Range	0.1-0.35mm
Max. Nozzle Temperature	≤300℃
Max. Build Plate Temperature	≤100℃
Supported Filaments	Hyper PLA, PLA, PLA Silk, PETG, CR-PETG, TPU (Supports TPU of 90A and above), ABS, ASA (ABS and ASA require printing with an enclosure)
Rated Power	Max. Power: 200-900W，Steady-state Power: 90-100W
Input Power	100-240V~, 50/60Hz
Filament Runout Sensor	Yes
Power Loss Recover	Yes
Printing Methods	USB Drive, LAN, Cloud
Supported File Formats	STL/OBJ/3MF
Slicer Software	Creality Print 7.0 or Later
Operating Systems	Windows/MAC OS
User Interface Languages	English/中文/Español/Deutsche/Français/Русский/Português/Italiano/Türk/日本語/한국어/Polski

2. Product Installation

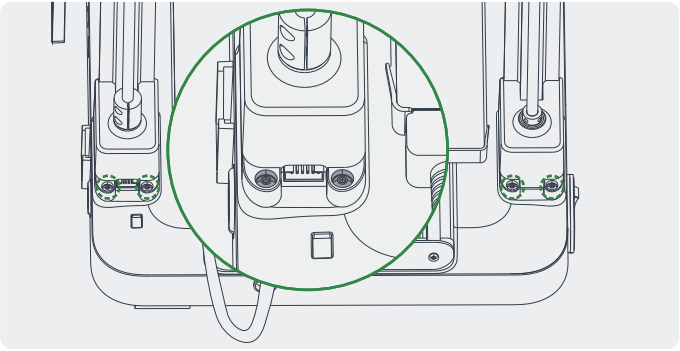
2.1 Gantry Frame Installation



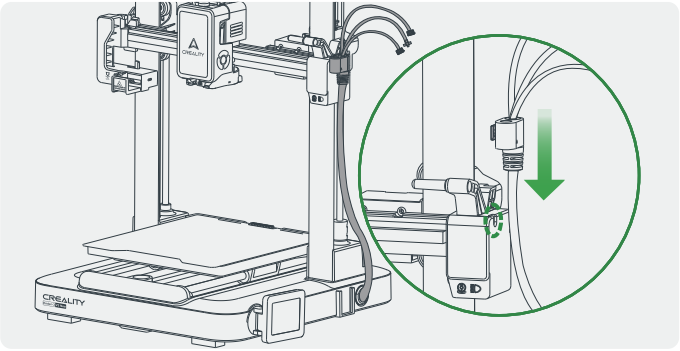
1 Place the gantry onto the locating pins on the base.



2 Secure the gantry to the base using six M3×14 screws.



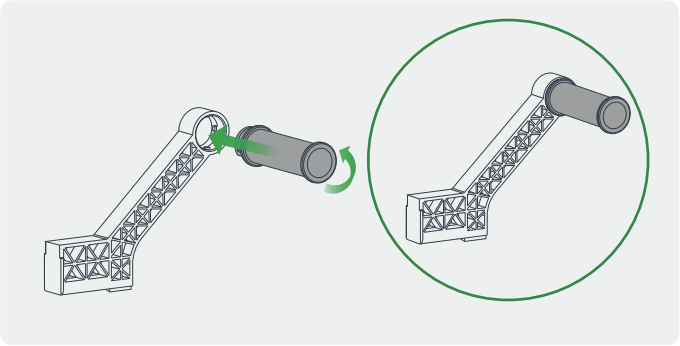
3 Secure the Z-axis motor brackets to the Z-axis rear bracket using four M4×16 screws.



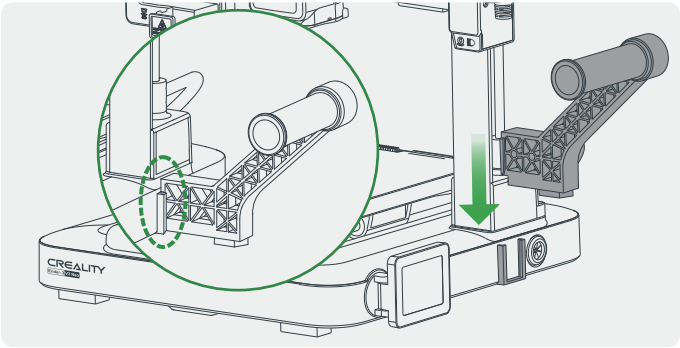
4 Route the cable assembly upward, then secure the cable clip and insert it into the slot on the X-axis motor bracket.

2. Product Installation

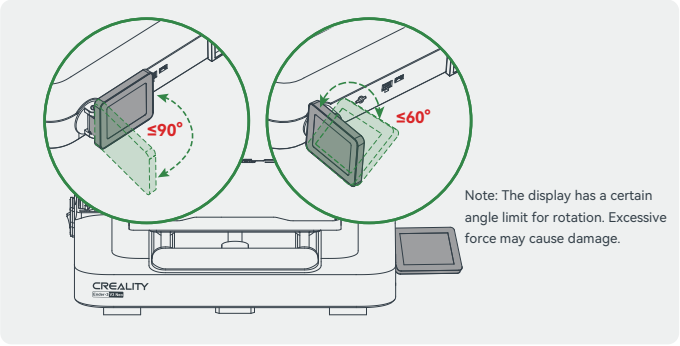
2.2 Filament Holder Installation and Screen Adjustment



1 Install the spool tube onto the spool holder.



2 Insert the spool holder into the slot on the base assembly.

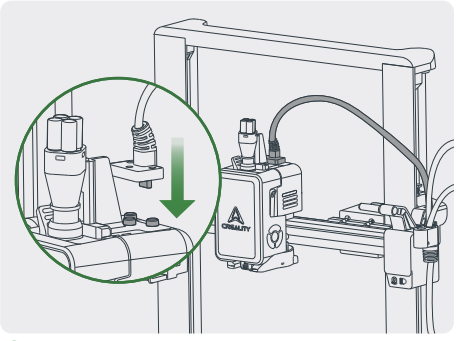


Note: The display has a certain angle limit for rotation. Excessive force may cause damage.

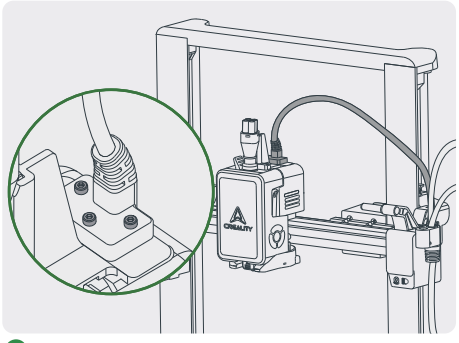
3 Rotate the display screen to the front.

2. Product Installation

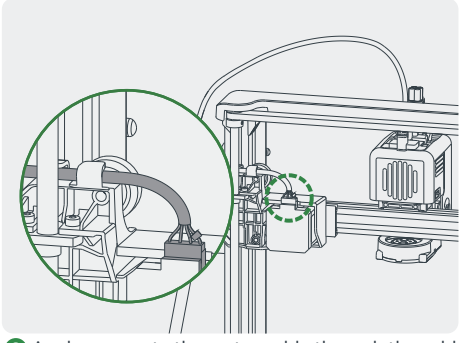
2.3 Device Connection



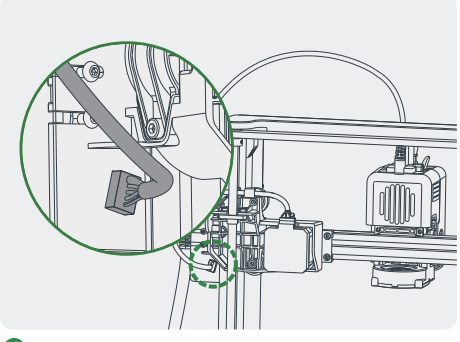
1 Insert the toolhead cable connector into the toolhead board. Align it with the locating slot above the toolhead board, then press it downward until it clicks into place.



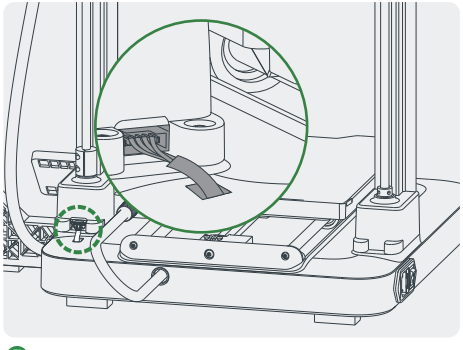
2 Secure the toolhead cable to the toolhead board using three M3×6 screws.



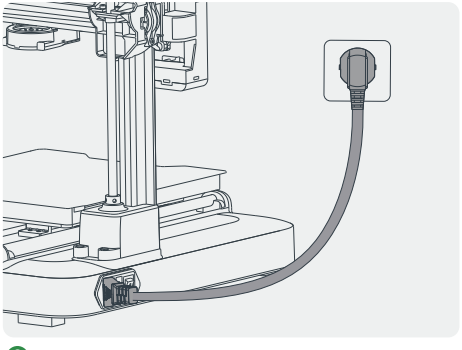
3 As shown, route the motor cable through the cable clip on the X-axis motor bracket, then connect it to the motor.



4 Connect the camera cable.



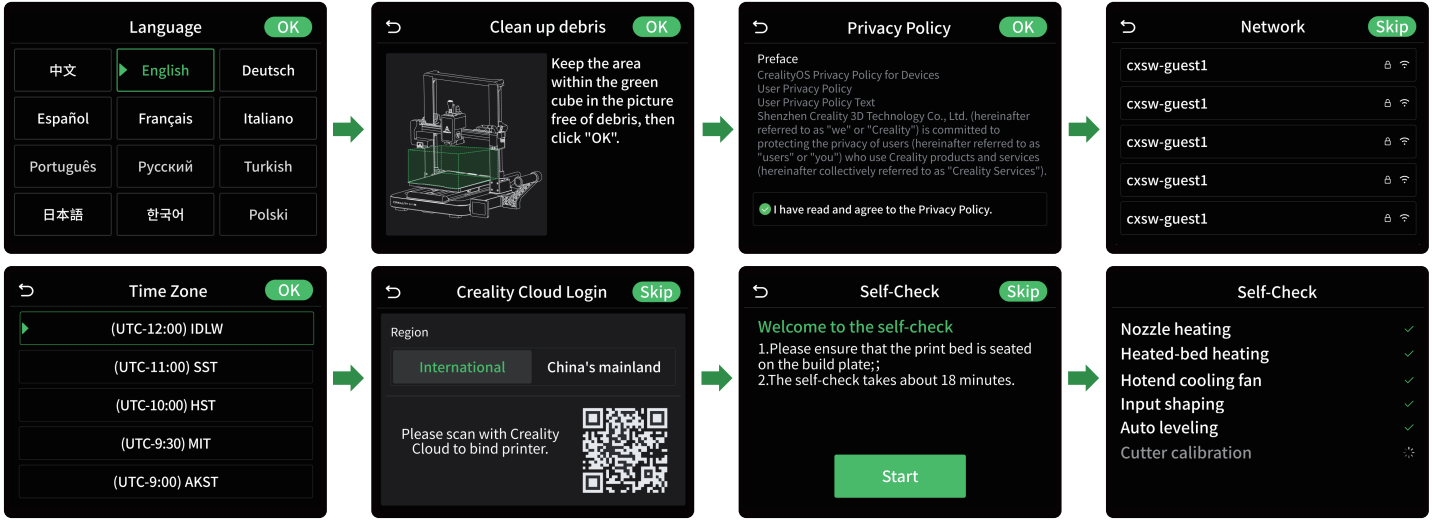
5 Connect the Z-axis motor cable.



6 Connect the power cord.Ensure that all cable connections have been completed before connecting the power.place.

3. Startup Guide and User Interface Overview

3.1 Startup Guide



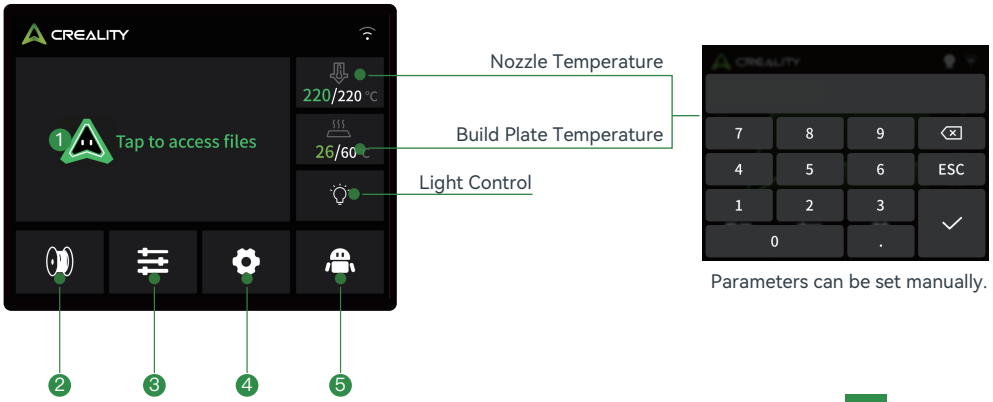
If an error occurs during the self-test, please refer to the FAQ to troubleshoot the issue. Alternatively, scan the QR code to submit a fault report. Creality's after-sales support team will assist you in resolving the problem.

No consumable loading during device self-test.

The screenshots in this manual are for reference only. As features are continuously updated, the actual software and firmware interface may differ. Please refer to the latest version available on the official website.

3. Startup Guide and User Interface Overview

3.2 User Interface Overview



Parameters can be set manually.

The screenshots in this manual are for reference only. As features are continuously updated, the actual software and firmware interface may differ. Please refer to the latest version available on the official website.

Model Files:

1 File Page: Select and print files from this page.

Bottom Navigation Bar:

2 Filament Page: Manage filament settings and perform filament loading/unloading operations.

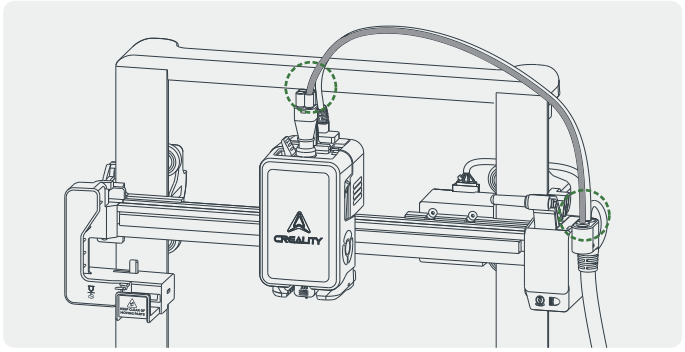
3 Control Page: Adjust printer settings, including axis movement, temperature, cooling fan, and print speed.

4 Features Page: Access features including network settings and AI detection, or view printer information.

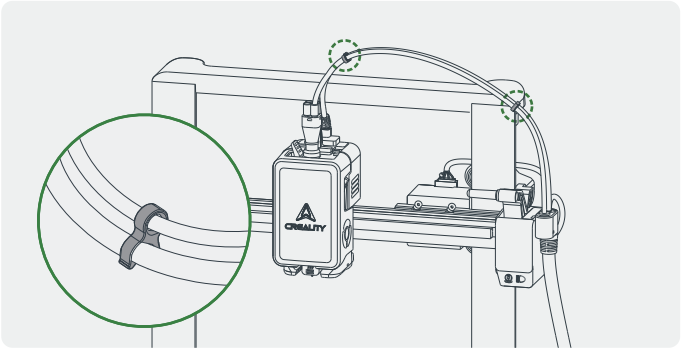
5 Help Page: Export logs or access the printer Wiki.

4. Getting Started with Your First Print

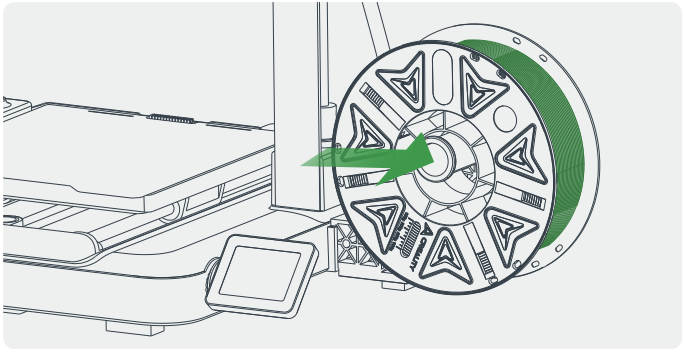
4.1 Filament Loading and Unloading



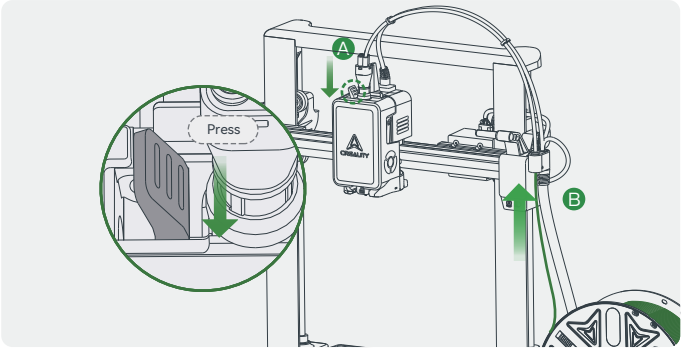
1 Insert the PTFE tube into either the filament guide tube or the toolhead inlet.



2 As shown, use the cable clip to secure the PTFE tube and the toolhead cable together.(Optional. Install only if needed.)

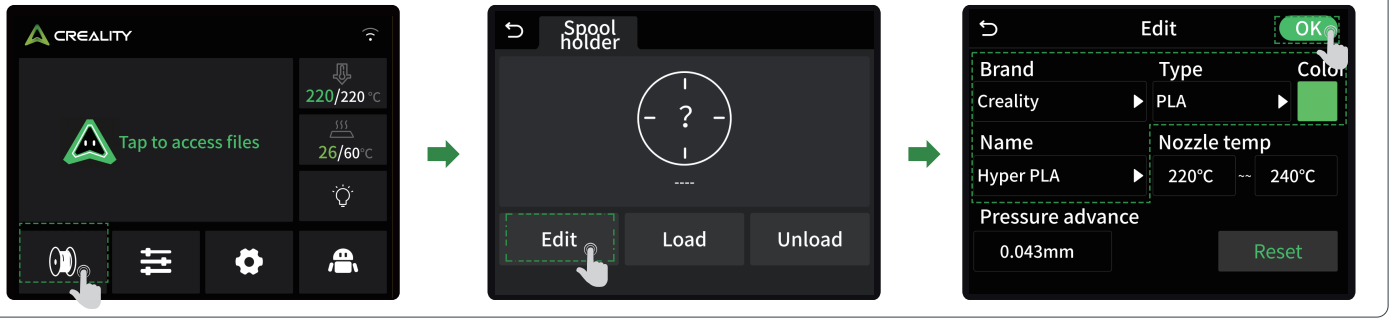


3 Put the filament spool onto the spool holder.

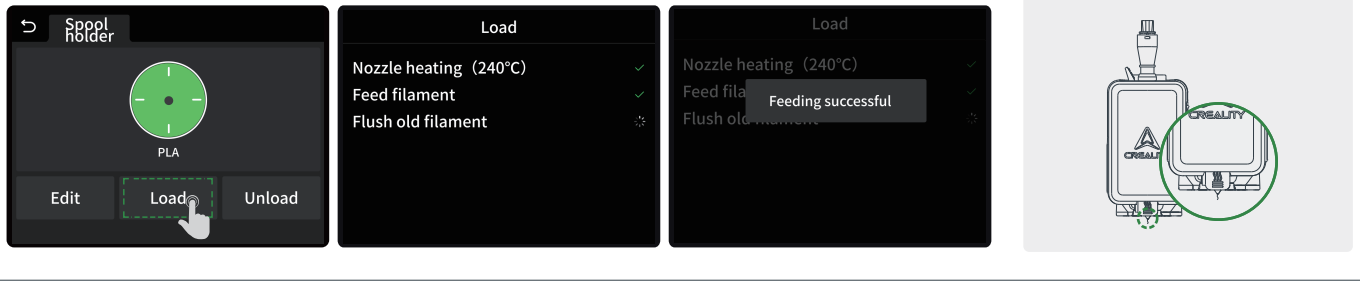


4 A. Press and hold the release lever.
B. Insert the filament upward into the PTFE tube until it can no longer be pushed further, then release the lever.

4. Getting Started with Your First Print



5 Tap the touchscreen to configure the filament settings: Filament → Edit. Set the filament Brand, Type, Name, and Color, then tap Confirm to save the settings.



6 Tap Load.:After configuring the filament settings, tap Load to automatically load the filament.

The screenshots in this manual are for reference only. As features are continuously updated, the actual software and firmware interface may differ. Please refer to the latest version available on the official website.

During loading, check whether filamentis extruding from the nozzle. If no filament is extruded, press the release lever at the rear of the printer and gently push the filament forward, then tap Load again.

4. Getting Started with Your First Print

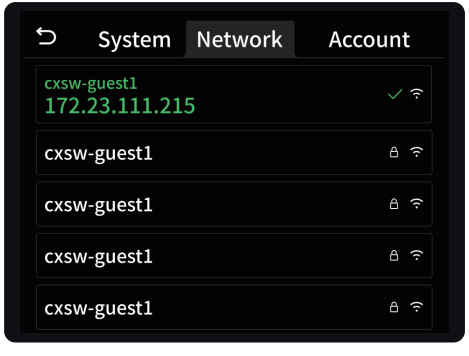
4.2 Creality Print Slicing

4.2.1 Software Download and Installation

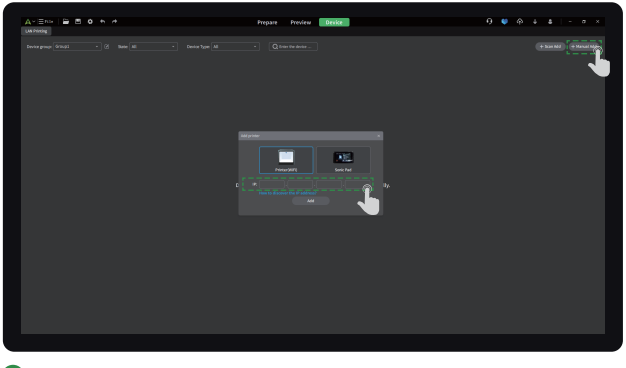
Creality Print

Visit the Creality Cloud website to download the latest version of Creality Print slicer software:
https://www.crealitycloud.com/downloads/software/creality-print/Windows

4.2.2 LAN Printer Binding



1 On the printer's touchscreen, navigate to Settings → Network to view the printer's IP address.

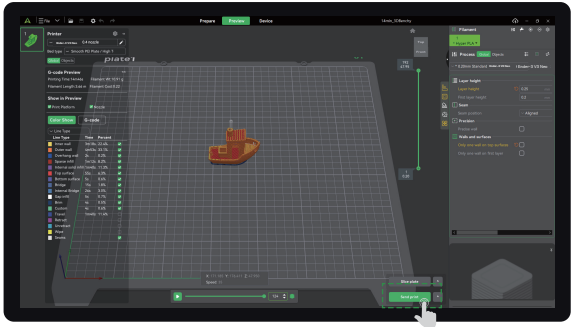


2 In the slicer software, navigate to Manual Add → Enter IP Address, then enter the printer's IP address to bind the printer.

The screenshots in this manual are for reference only. As features are continuously updated, the actual software and firmware interface may differ. Please refer to the latest version available on the official website.

4. Getting Started with Your First Print

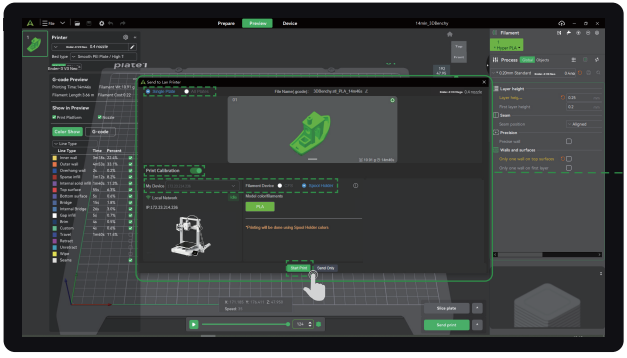
4.2.3 Slice and Send to Print

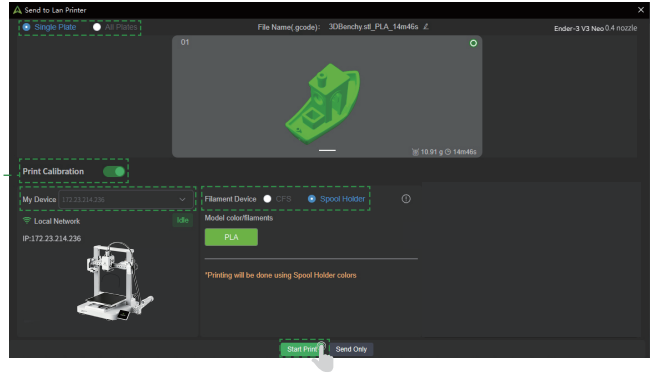


1 Click "Slice Plate". After slicing is complete, click "Send to Print".

For more detailed tutorials on using the slicer software, please visit the Creality Official Wiki:
https://wiki.creality.com/en/software/update-released

The screenshots in this manage are for reference only. As features are continuously updated, the actual software and firmware interface may differ. Please refer to the latest version available on the official website.

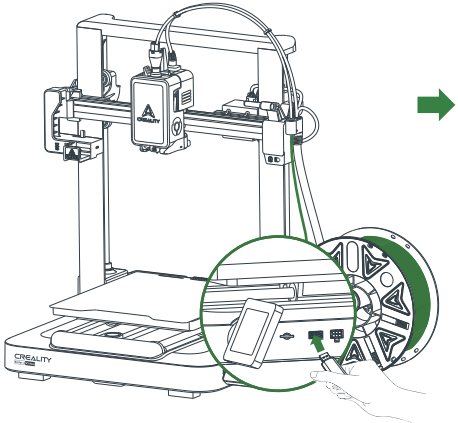




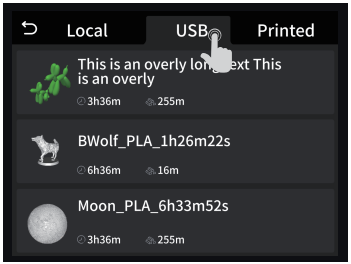
2 Verify the printer and filament information, then click "Start Print".

4. Getting Started with Your First Print

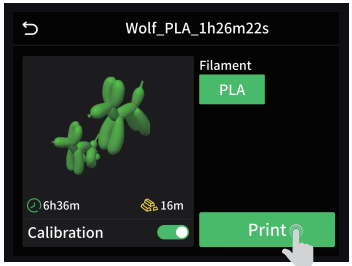
4.3 USB Drive Printing



1 Insert the USB drive into the USB port.

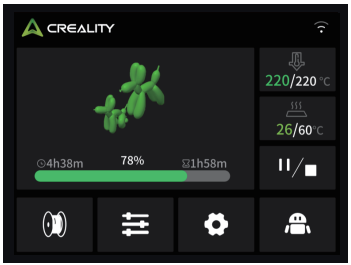


2 Select a model from the USB drive.



3 Tap Print.

Tip: Print quality would be better if Printing Calibration is on.

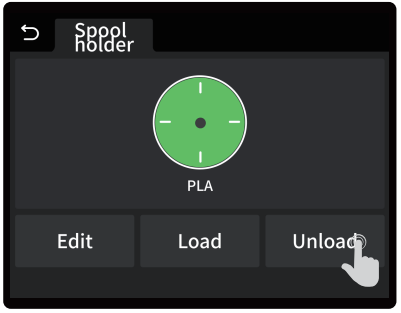


4 Printing in Progress.

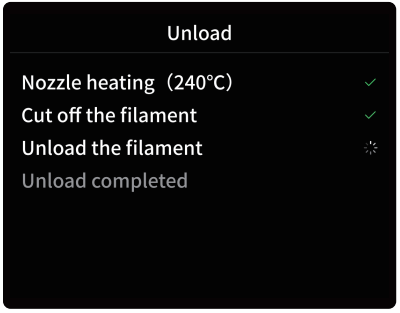
The screenshots in this manual are for reference only. As features are continuously updated, the actual software and firmware interface may differ. Please refer to the latest version available on the official website.

5. Printer Features

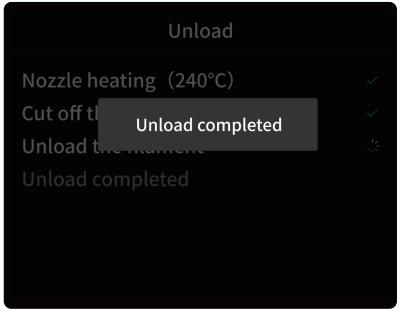
5.1 Automatic Bed Leveling



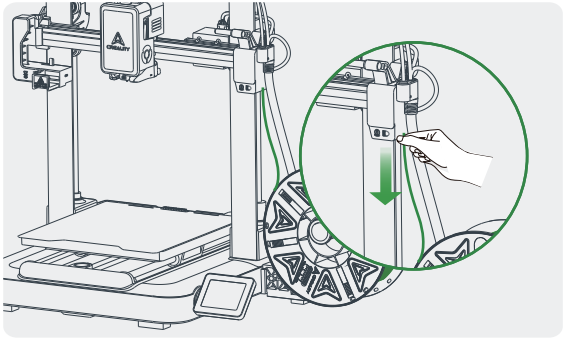
❶ Tap Unload.



❷ Wait for the unloading process to complete.



❸ Filament unloading completed.



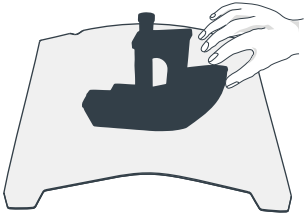
❹ Remove the filament.

Do not unload the filament manually. Pulling the filament out by hand may leave filament residue inside the extruder, which can cause filament jams.

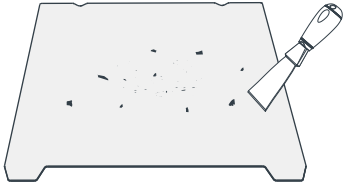
The screenshots in this manual are for reference only. As features are continuously updated, the actual software and firmware interface may differ. Please refer to the latest version available on the official website.

6. Maintenance

6.1 Model Collection and Build Plate Maintenance



1. A. Once the print is completed, wait for the build plate to cool before removing the build plate with the printed model.
   B. Hold the build plate with both hands and gently bend it to release the printed model.



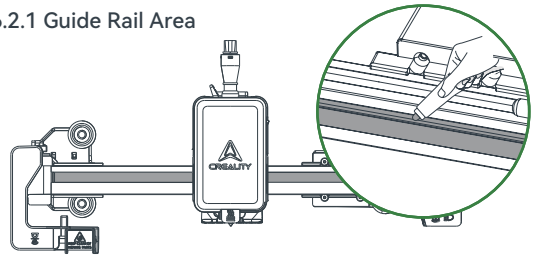
2. If there is any filament residue on the build plate, use the scraper to carefully remove it before the next print.

1. Do not bend the build plate excessively during normal use, as this may cause deformation and affect its usability.
2. The build plate is a wear item. To maintain optimal first-layer adhesion, regular replacement is recommended.

6.2 Guide Rail and Lead Screw Maintenance

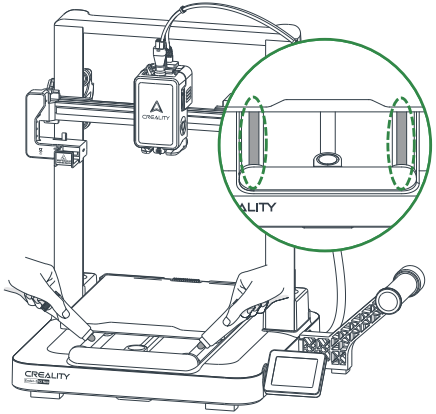
It is recommended to purchase lubricant and periodically maintain the guide rails and lead screws.
(Avoid applying lubricant to the belt area to prevent dust accumulation.)

6.2.1 Guide Rail Area

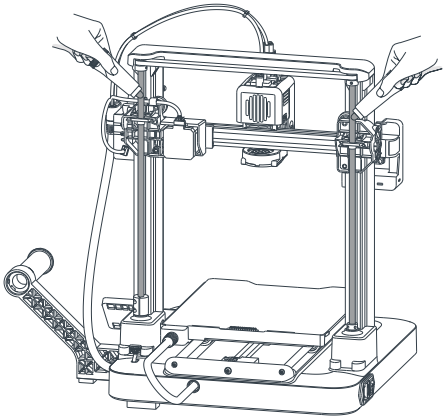


6. Maintenance

6.2.2 Linear Rod and Lead Screw Areas



Y-axis Linear Rod Area



Z-axis Lead Screw Area

6. Maintenance

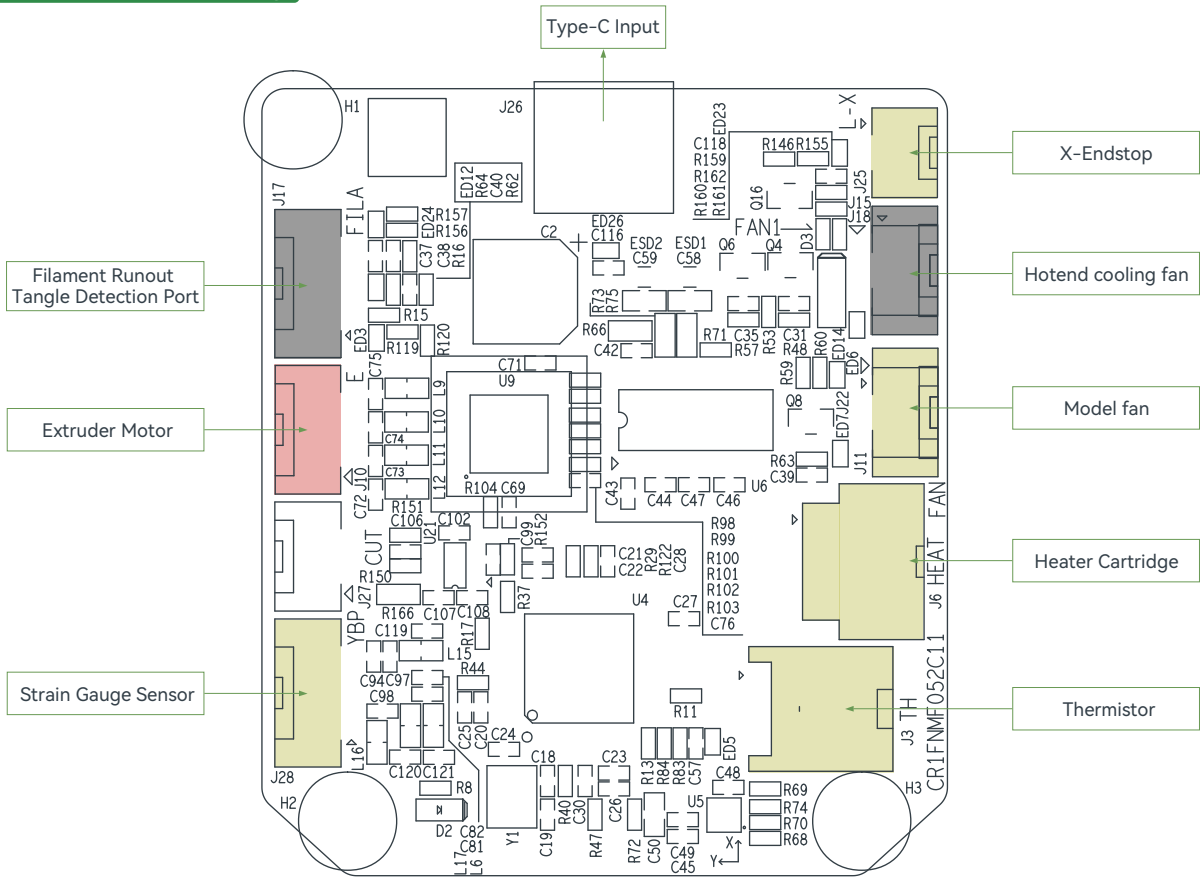
6.3 Maintenance Checklist

Maintenance Instructions		
Printer Cleaning	Remove debris from inside the printer to ensure smooth operation of all moving components.	Before each print
Hotend	Clog Removal: Preheat the nozzle and unload the filament. Increase the nozzle temperature to 260℃, then insert the cleaning needle through the extruder from top to bottom until the clogged filament is expelled. (Before removing the cleaning needle, allow the nozzle temperature to cool below 140℃.)	After a Clog Occurs
	Replace the nozzle.	Every 6 Months
	Check whether filament extrusion is normal. If not, inspect the hotend for clogging or wear.	After Each Filament Change
	Check the nozzle for filament residue. If present, heat the nozzle and remove the residue using the supplied tool.	Before Each Print
Build Plate	Check the build plate surface for filament residue, adhesive, oil, or dirt. Clean the surface if necessary.	Before Each Print
Motion System	Lubricate the X/Y/Z smooth rods. (Before lubricating, remove old grease and dirt from the guide rails, then apply fresh grease.)	Every 360 Hours of Printing
Printer Self-Check	Perform Axis Movement Check, Vibration Compensation, and Auto Bed Leveling. (After structural adjustments, maintenance, or repairs.)	Every 360 Hours of Printing
Filament Replacement	Replacing with the Same Filament Type: Follow the standard unload and load procedure.	/
	Replacing with a Different Filament Type: Preheat the nozzle to the target temperature of the current filament and unload it. Load the new filament, then heat the nozzle to the higher printing temperature of the two filament types and maintain it for 30 seconds. Once all residual filament has been purged, set the nozzle t emperature to the target temperature of the current filament.	
	***When replacing with TPU filament, make sure to update the filament settings to TPU before loading. Failure to do so may result in extruder jams.**	

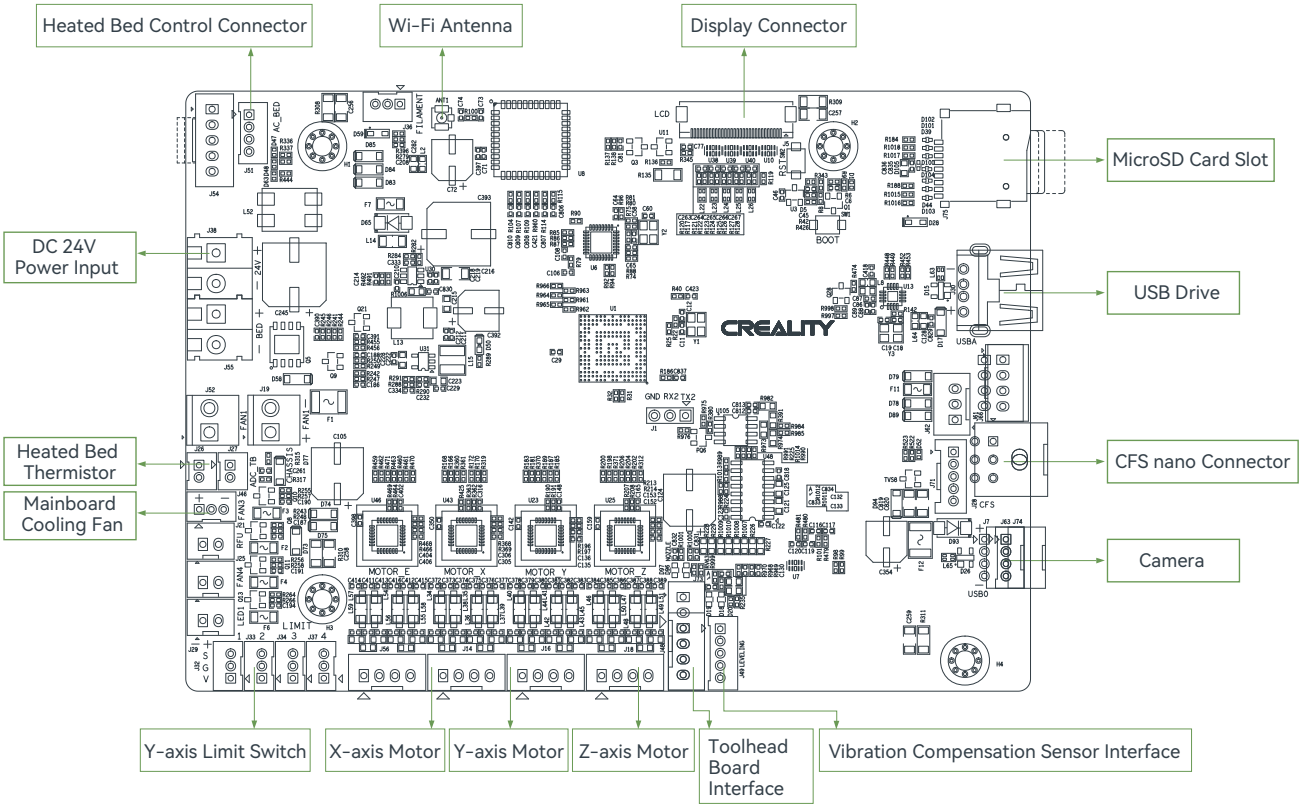
If the issue cannot be resolved using the methods above:

1. Visit the Creality Official Wiki (https://wiki.creality.com) for additional troubleshooting and maintenance guides.
2. Alternatively, contact Creality Customer Support: Hotline: +86 755-8523 4565 Email:cs@creality.com.

7. Toolhead Board Wiring



8. Mainboard Wiring



Due to the differences between different machine models, the actual objects and the images can differ. Please refer to the actual machine. The final explanation rights shall be reserved by Shenzhen Creality 3D Technology Co., Ltd.

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