



CREALITY

Create reality, achieve dreams

CR-10 SE

CR-10 SE

3D Printer User Manual

V1.0

To Our Dear Users

Thank you for choosing Creality. For your convenience, please read through this User Manual before you start and follow the instructions provided carefully.

Creality is always ready to provide you with high-quality services. If you encounter any issues or have any questions when using our products, please use the contact information at the end of this manual to contact us. To further improve your user experience, you can find more about our devices via the following methods:

User manual: You can find instructions and videos in the memory card provided with the printer.

You can also visit our official website (<https://www.creality.com>) to find information regarding software, hardware, contact information, device instructions, device warranty information, and more.

Firmware Upgrade

1. To upgrade the WiFi firmware, you can upgrade the firmware via the Creality Cloud OTA;
2. To upgrade the equipment firmware, you can visit <https://www.creality.com>, click on Service Center → Firmware/ Software Download → Download the required firmware, install and use it.

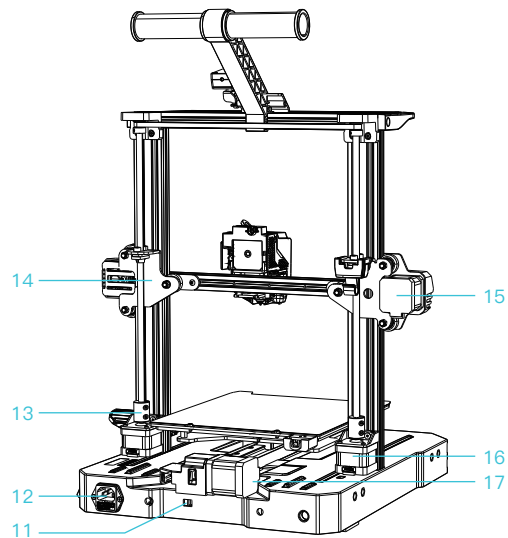
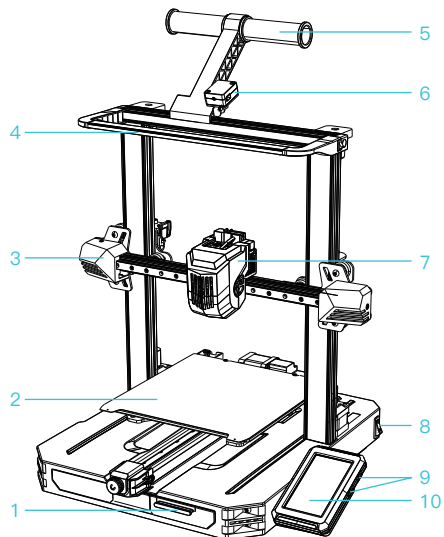
Videos showing the operation of the products and after-sales service

1. Please visit <https://www.crealitycloud.com/product>, click “Products” and select the right model, and then click “Related” to view the tutorials on after-sales service;
2. Or contact our after-sales service center at +86 755 3396 5666, or send e-mail to cs@creality.com.

1. Do not use the printer in any way other than described herein in order to avoid personal injury or property damage;
2. 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;
3. Do not expose the printer to a violent vibration or any other unstable environment, as this may cause poor print quality;
4. Please use recommended filaments to avoid clogging of the extrusion head and causing damage to the machine;
5. Do not use the power cable of other products during installation. Always use a grounded three-prong power outlet, which accompanies the printer;
6. Do not touch the nozzle and the heated bed during operation to avoid burns or personal injury;
7. 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;
8. 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;
9. 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;
10. Children under 10 years old should not use the printer without supervision, otherwise it may cause personal injury;
11. 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;
12. Tip: Do not plug in or unplug wires on a charged basis.

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1. About the Printer



1 Tool Kit

2 Printing Platform

3 X-axis Kit

4 Light Stand

5 Material Rack Assembly

6 Filament Detector

7 Nozzle Kit

8 Power Switch

9 USB Port

10 Display Screen

11 Voltage Regulation Gear

12 Power Outlet

13 Coupling

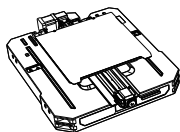
14 X-axis Support

15 X-axis Motor

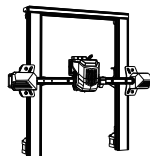
16 Z-axis Motor

17 Y-axis Motor

2. Parts List



1 Base component



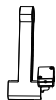
2 Gantry Frame Assembly



3 Light stand



4 Display Screen Component



5 Material Rack and Filament Detection Component



6 Filament tube x2



7 Wire Clamp



8 Power cable



Accessory kit



9 Hexagon Socket Head Cap Screw with Spring Washer M5*45 x5



10 Hexagon Flat Round Head Screw M4*25 x4



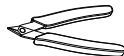
11 Hexagon Flat Round Head Screw M5*8 x2



12 Tool kit



13 10-12 mm open-ended wrench



14 Cutting plier



15 Filament



16 Nozzle cleaner



17 Nozzle cleaner



18 USB flash disk



19 Quick Installation Guide



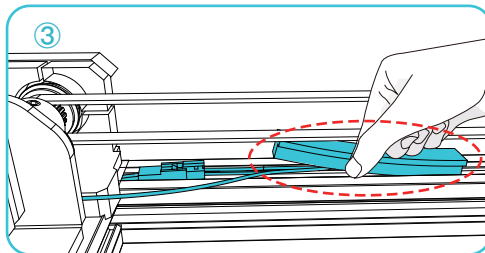
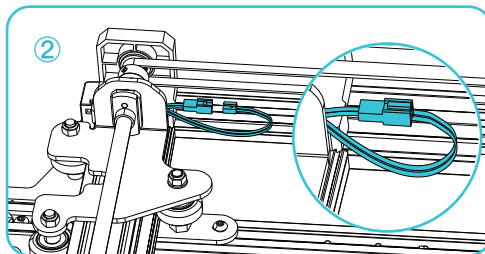
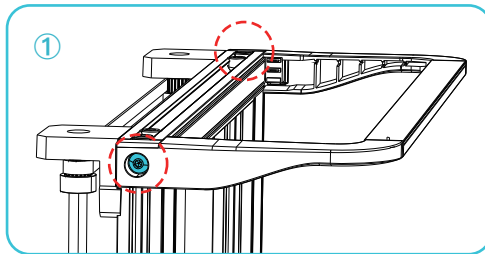
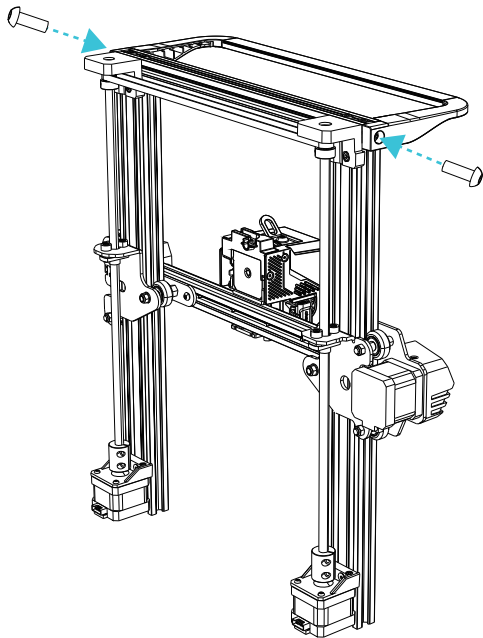
20 After-sales Services Card

Tips: the above accessories are for reference only. Please refer to the physical accessories.

3. Assembly Procedure

3.1 Light Stand Installation

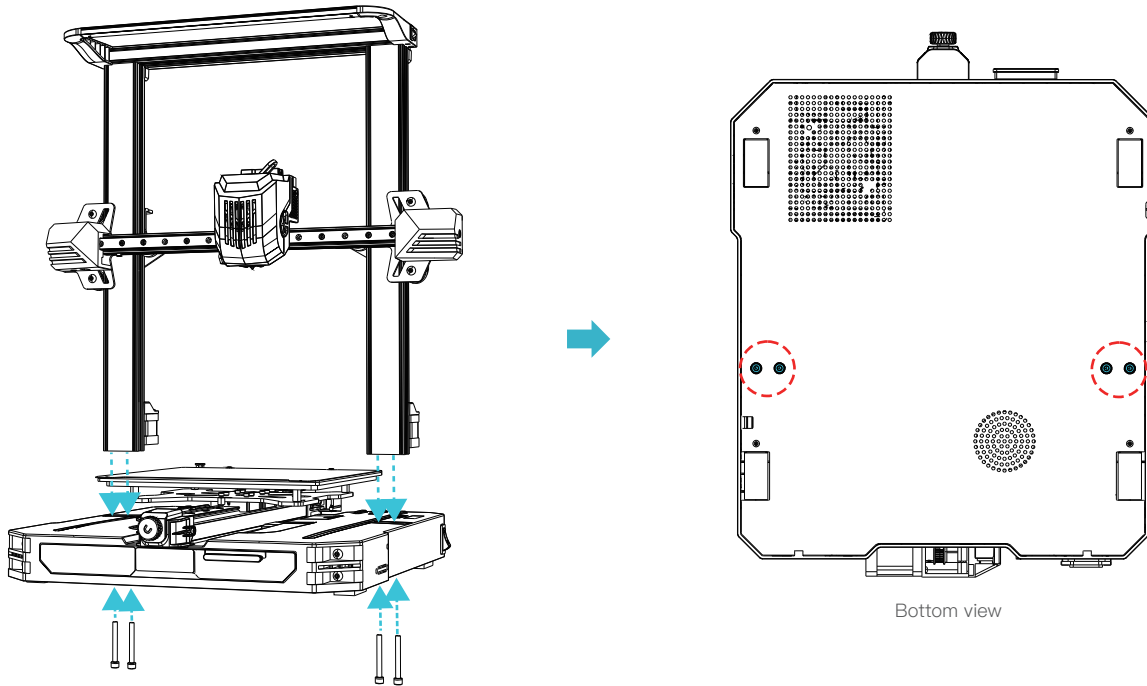
- ① Use two M5×8 screws to align and tighten the holes on the left and right of the light stand, and install the light stand on the gantry frame;
- ② Connect LED light cable;
- ③ Place the LED light cable into the profile groove as shown in the diagram and secure it with sealing tape.



3. Assembly Procedure

3.2 Gantry Frame Assembly Installation

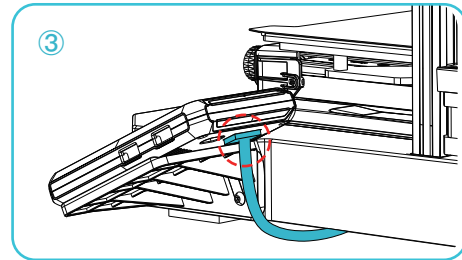
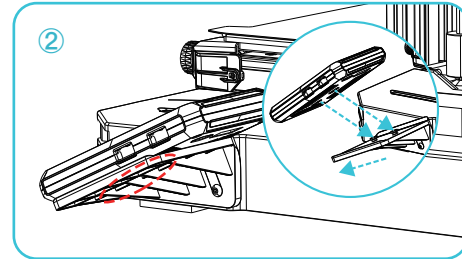
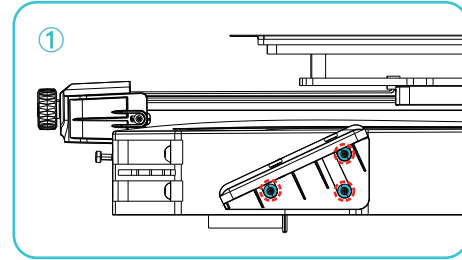
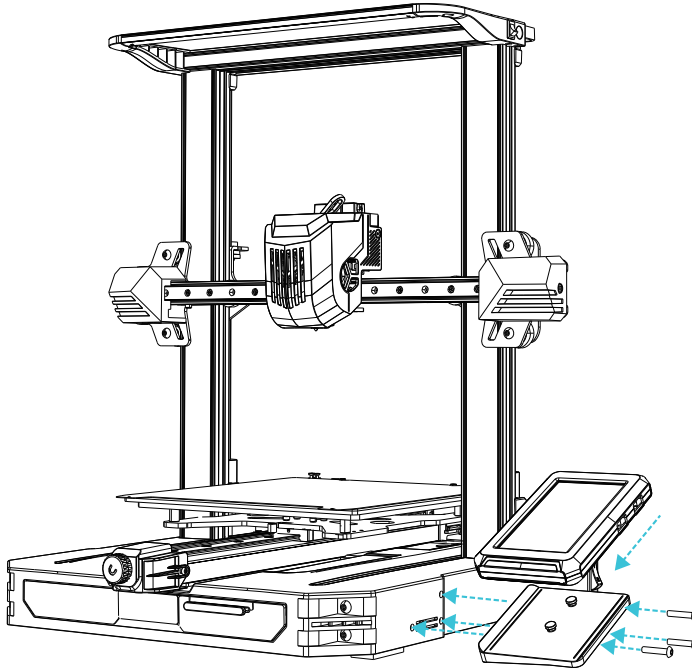
Place the gantry frame assembly in the base slot and lock it using four M5x45 screws aligned with the holes from the bottom.



3. Assembly Procedure

3.3 Display Screen Component Installation

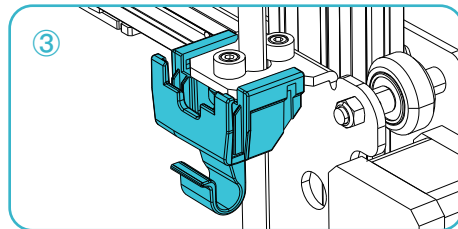
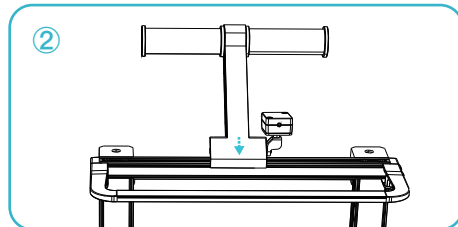
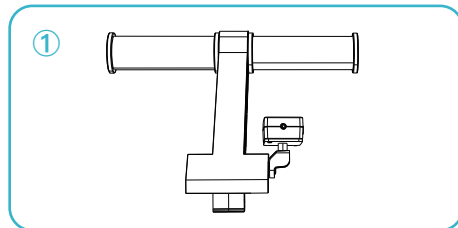
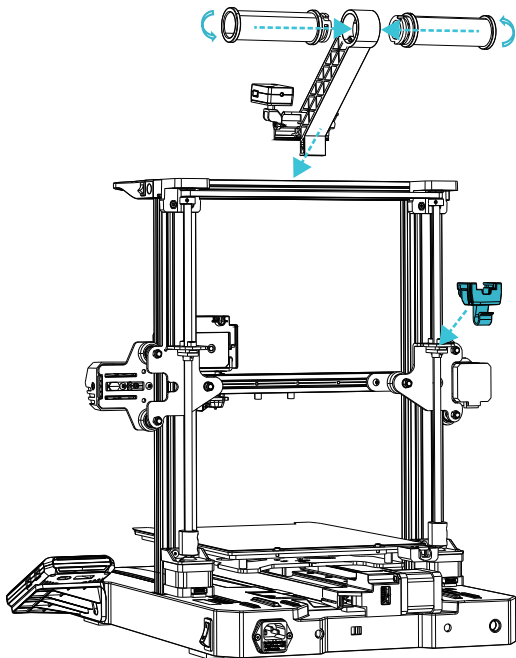
- ① Place the screen bracket on the side of the right profile, align it with the screw holes, and tighten it with three M4X25 screws;
- ② Align the pins on the back of the display screen with the large hole of the screen bracket and slide it down to lock it in place;
- ③ Connect the display wiring.



3. Assembly Procedure

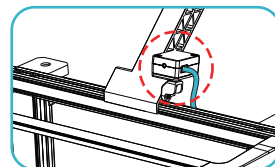
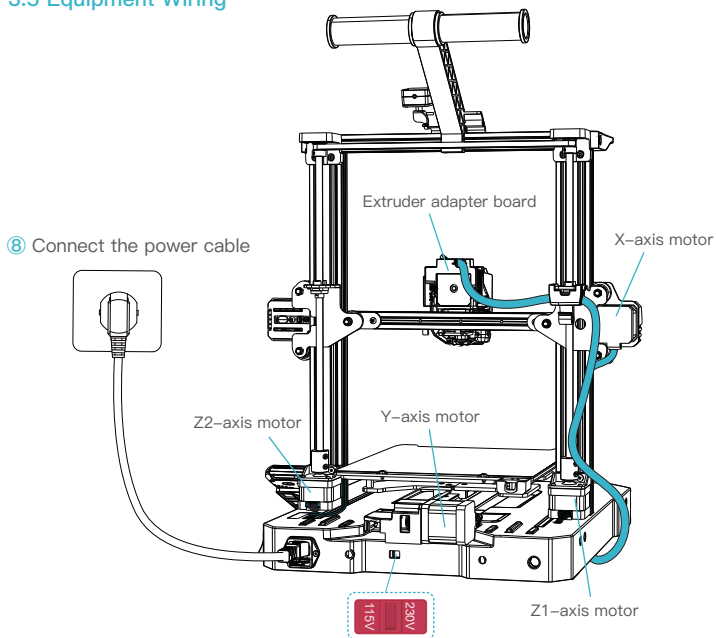
3.4 Installation of the material rack assembly and wire clip

- ① Install the material rack and material barrel according to the diagram;
- ② Align the front slot of the installed material rack assembly with the front slot of the profile, and press it down firmly to secure the material rack assembly to the profile;
- ③ Clamp the wire clip into the back panel of the X-axis Motor.

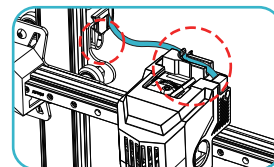


3. Assembly Procedure

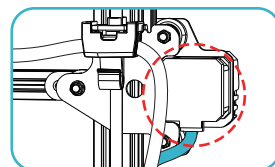
3.5 Equipment Wiring



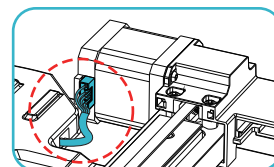
① Connect the filament detection line;



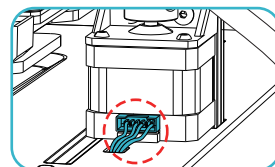
② Follow the label instructions to first insert the extruder cable into the cable clamp, then connect the extruder cable;



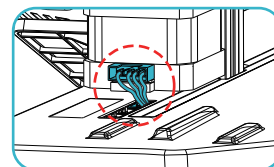
③ Connect the X-axis motor wire;



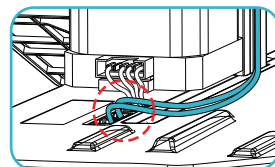
④ Connect the Y-axis motor wire;



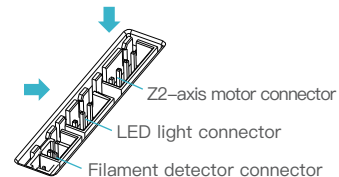
⑤ Connect the Z1-axis motor wire;



⑥ Connect the Z2-axis motor wire;



⑦ Connect the filament detection line and LED light cable;



Caution

- Please ensure the correct position for the power supply switch and mains before supply connection, in order to avoid damage to the device.
- If the mains between 100V and 120V, please select the 115V for the power supply switch.
- If the mains between 200V and 240V, please select the 230V for the power supply switch (default is 230V).

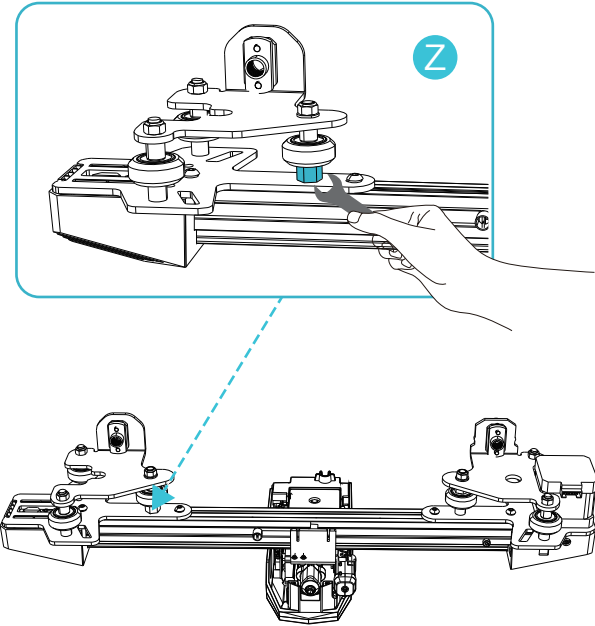
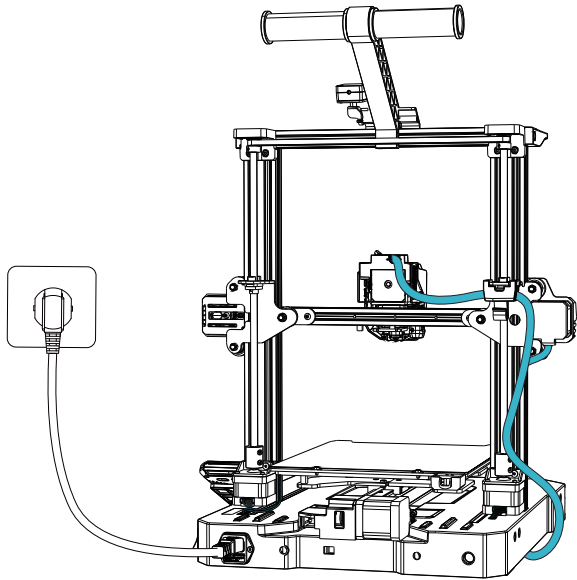
3. Assembly Procedure

3.6 Pulley Tightness Adjustment

Before starting up, please check the tightness of the pulley.

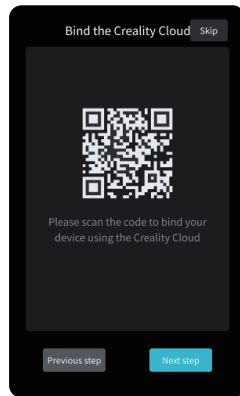
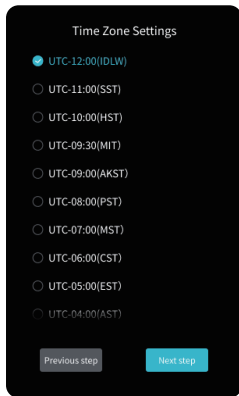
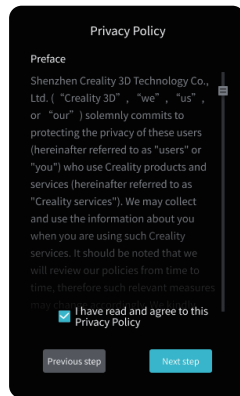
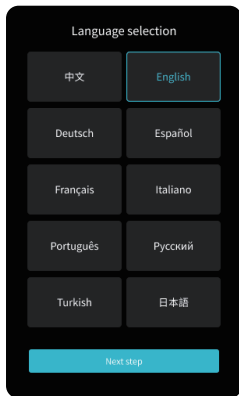
Z axis pulley adjustment:

Gently dial the pulley to check whether it is idling or stuck. If this phenomenon occurs, use an open-end wrench to adjust the hexagonal eccentric isolation column to make it rotate smoothly.

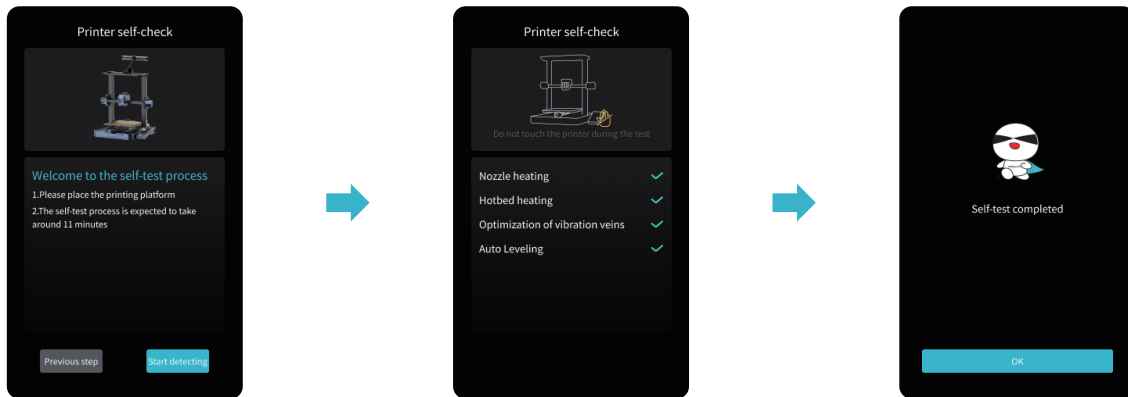


4. About the Power-on Guide and User Interface

4.1 Power-on guide



The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.



Tips:

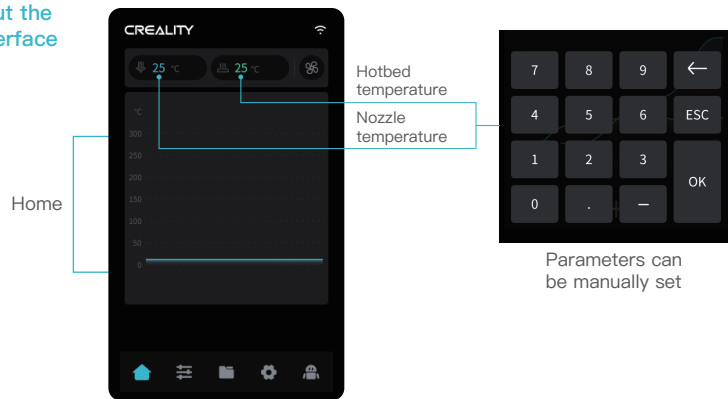
If any abnormalities occur during the self-check process, please refer to the FAQ to check for possible machine malfunctions; Alternatively, scan the QR code for "fault reporting" to report the machine issue and seek assistance from the after-sales service for problem resolution.



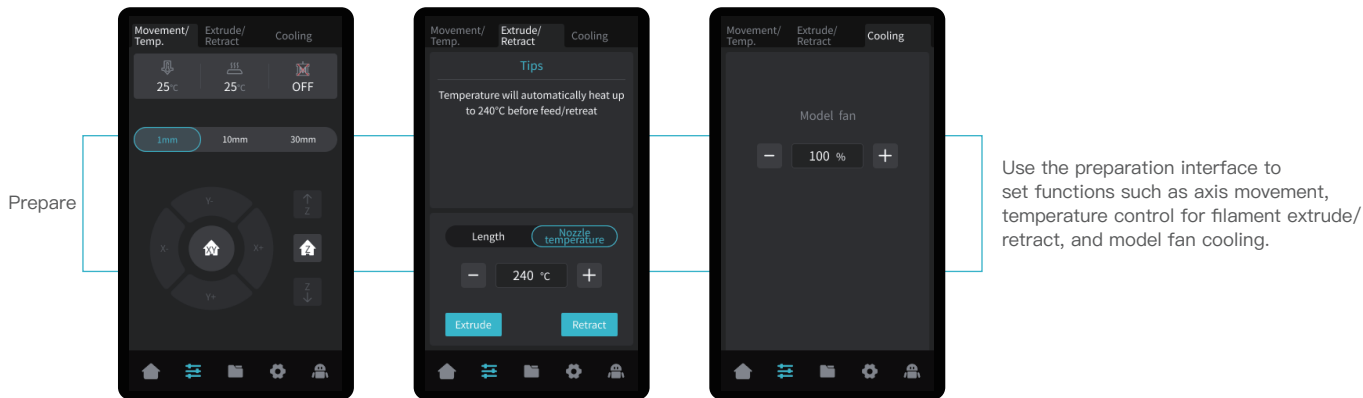
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4. About the Power-on Guide and User Interface

4.2 About the User Interface



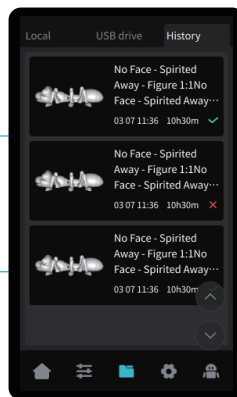
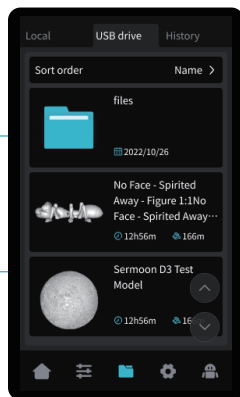
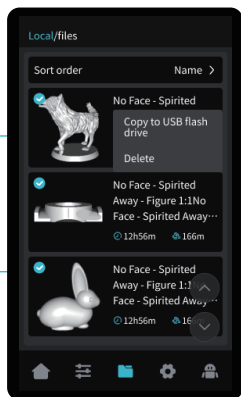
The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/–firmware UI published on the official website.



4. About the Power-on Guide and User Interface



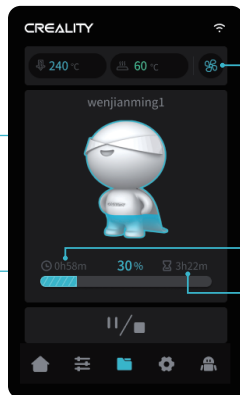
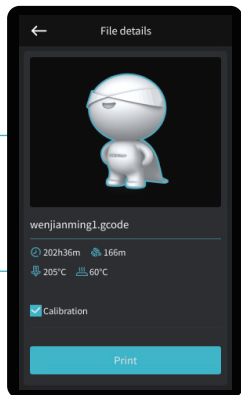
Print file preview



Local and USB flash disk model files can be managed via the print file preview interface.

Press and hold on the model to select multiple models and copy them to a USB flash disk
*Up to a maximum of 3 models can be copied

Print interface



Model fan switch

Print Time

Time remaining



The current interface is for reference only.
Due to the continuous upgrading of functions,
it shall be subject to the latest software/-
firmware UI published on the official website.

Click on the model file to access its details
*Checking "Calibration" can improve print quality

4. About the Power-on Guide and User Interface




Set

Machine system, network, and camera settings can be configured through the settings interface. (Camera is an optional feature)

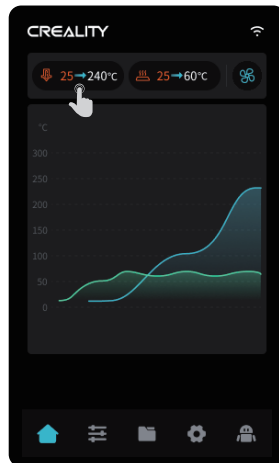
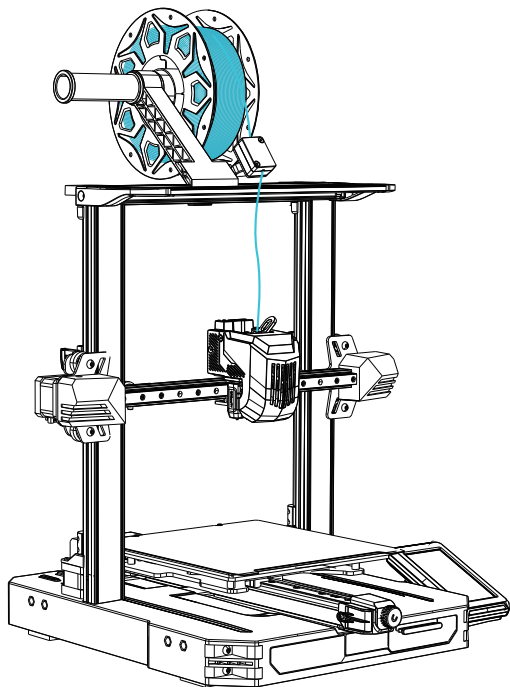
Customer Service

Access the customer service interface to view FAQs, manuals, and log.

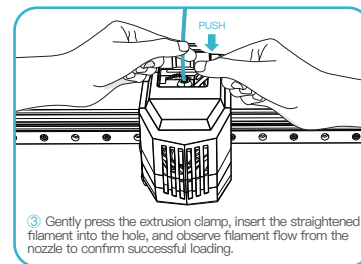
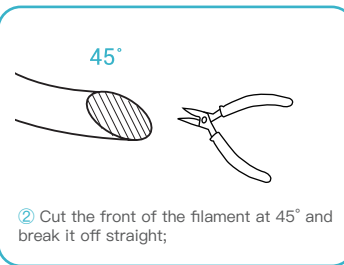
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5. First Printing

5.1 Filament Loading



① Preheat the nozzle;



How to Replace the Filament Manually?

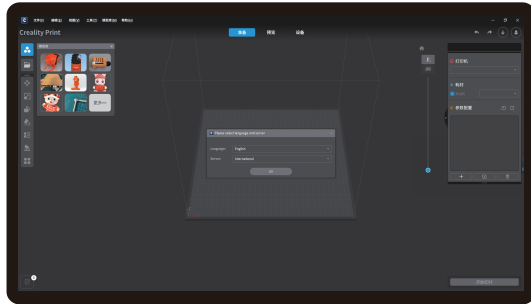
A. Adjust the nozzle temperature based on the printing filament, heat the nozzle to 185°C or higher, press the extrusion handle, and push the filament down to extrude it from the nozzle. Then quickly retract the filament to prevent it from getting stuck in the heat break.

B. Place the new filament onto the material rack and repeat the steps ① to ③ above.

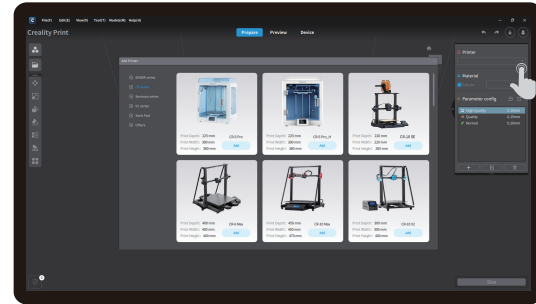
5. First Printing

5.2 LAN printing

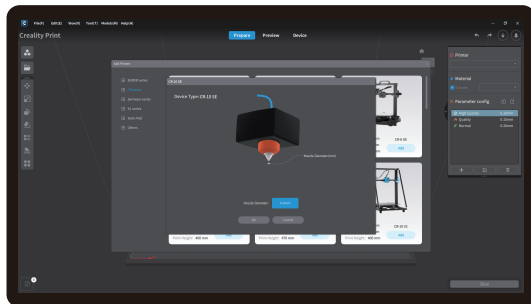
- ※ Install Creality Print slicing software by opening the random data on the USB flash disk.
- ※ Log in to the official website to download for installation: <https://www.crealitycloud.com/software-firmware/software?type=7>



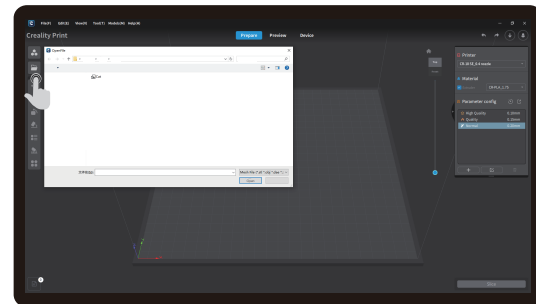
① Select “Language” and “Server”



② Add the printer



③ Confirm the nozzle diameter

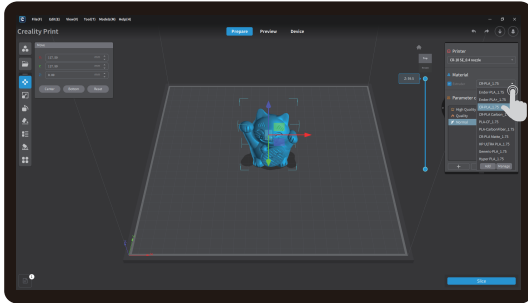


④ Import model files

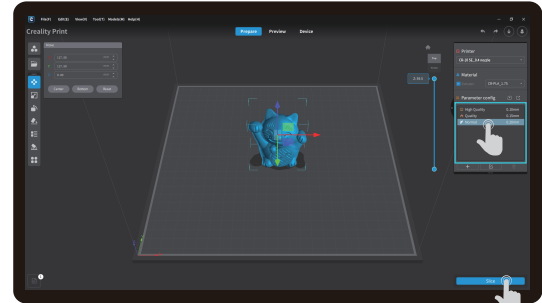


The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

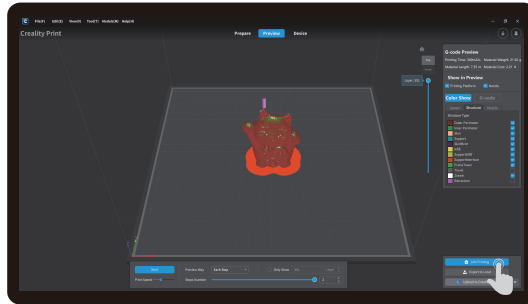
5. First Printing



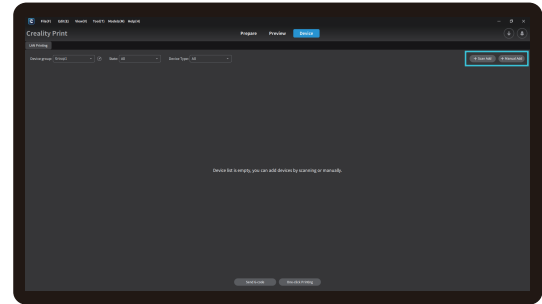
⑤ Set up material type



⑥ Set the print layer height and click on "Slice"



⑦ After slicing is done, click on "LAN printing"

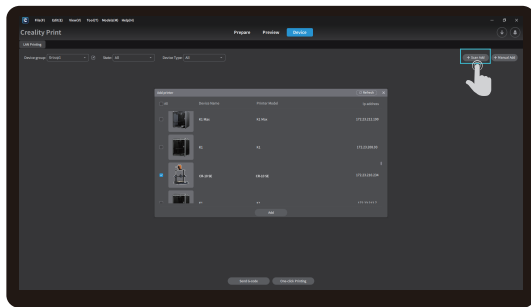


⑧ Add equipment: can be added either by "Scan to add" or "Manually add".

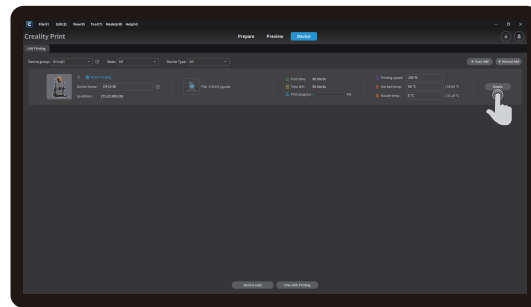


The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

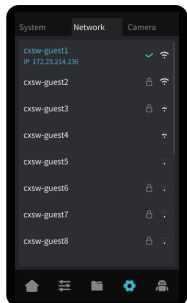
5. First Printing



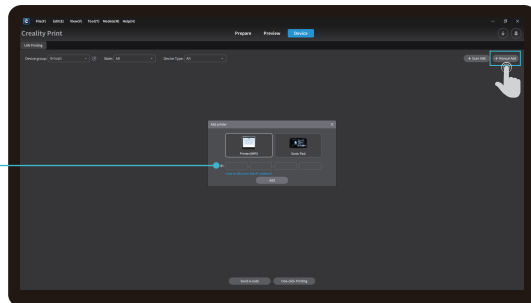
⑧ Add a device: a. Add by scanning → Select a device



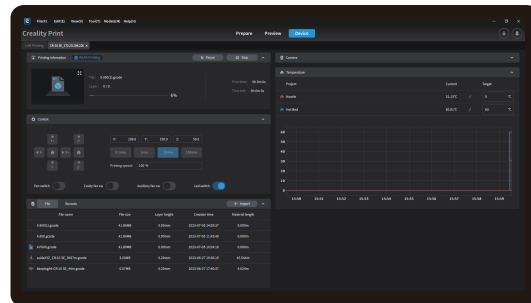
⑨ Device List



Click "Settings" →
"Network" to view
the IP address



⑧ Add a device: b. Add a device by manually entering the IP address



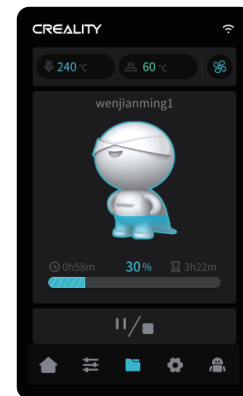
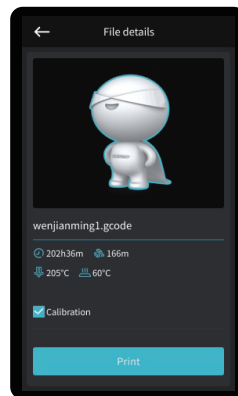
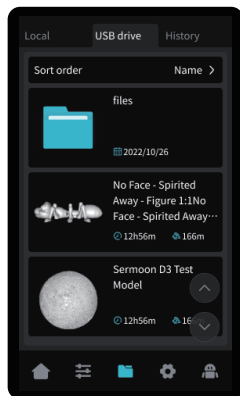
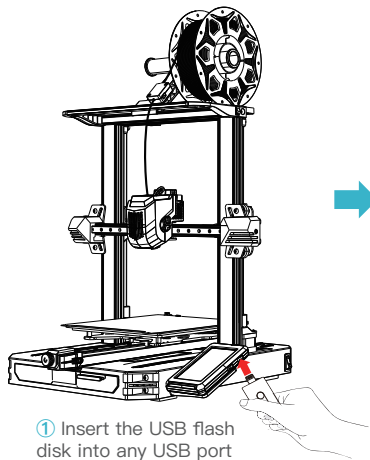
⑩ Equipment printing information details



The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

5. First Printing

5.3 USB flash disk Printing



Note:

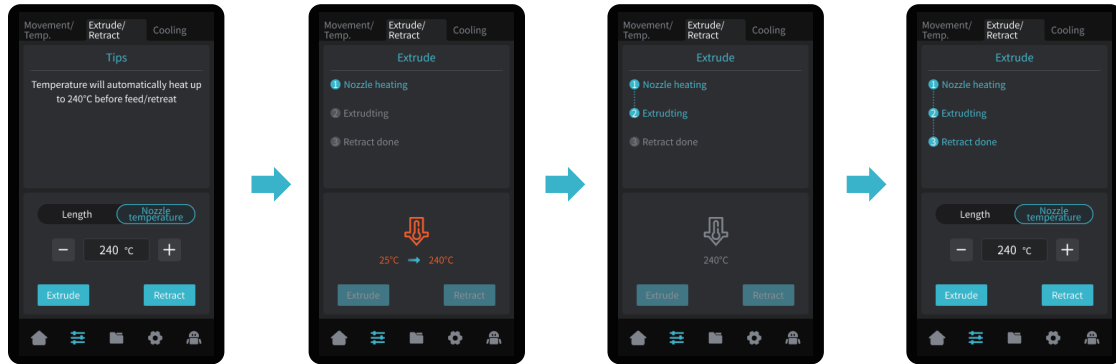
1. For details on using the software, please refer to the slicing software user manual on the USB flash disk.
2. Saved files must be placed in the root directory (not a subdirectory) of the USB flash disk.
3. It is recommended to use Latin alphabet, numbers, and common characters for the file names..
4. Do not insert or remove the USB flash disk during the printing process.



The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

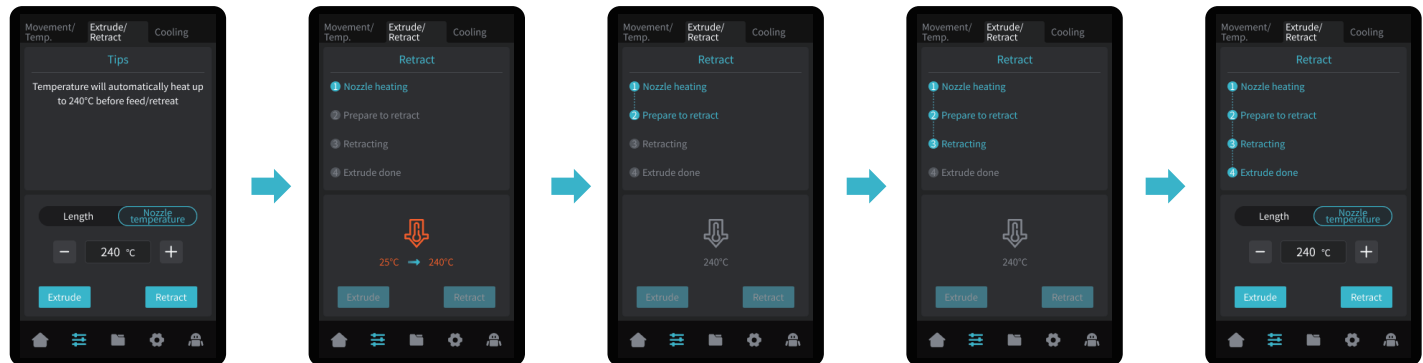
6. Functional Specification

6.1 Auto extrude



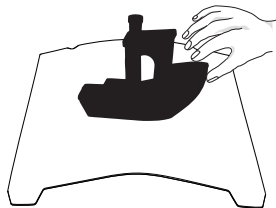
The current interface is for reference only. Due to the continuous upgrading of functions, it shall be subject to the latest software/firmware UI published on the official website.

6.2 Auto retract

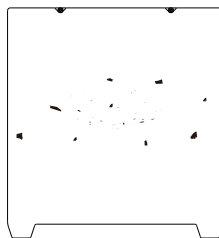


7. Equipment Maintenance

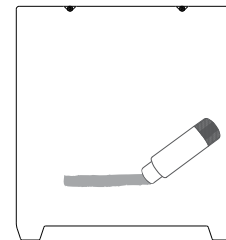
7.1 Platform plate removal and maintenance



- 1 a. When printing is finished, wait for the platform plate to cool before removing the printing platform with the model attached;
b. Slightly bend the platform with both hands to separate the model from the platform.



- 2 If there are residual filaments on the platform plate, scrape them off lightly with a blade and print again.



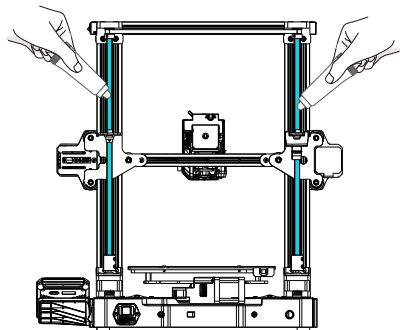
- 3 If the first layer of the model is not properly glued, it is recommended to apply solid adhesive evenly on the surface of the platform plate before preheating for printing.



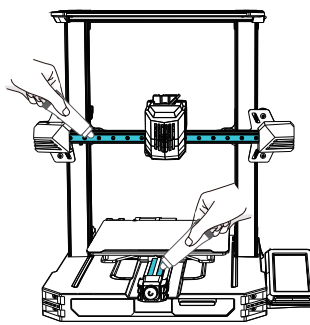
- Tips: 1. Don't bend too much for daily use to prevent deformation and unusability;
2. The printing platform is a perishable part, and it is recommended to replace it regularly to ensure that the first layer of the model sticks properly.

7.2 Maintenance of screw rod and guide rail

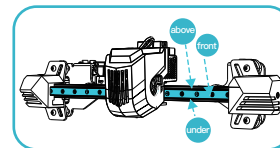
Regularly lubricate and maintain the screw rod and guide rail areas with purchased lubricating grease.



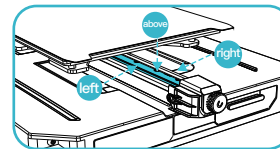
Z-axis screw rod area



X-axis and Y-axis guide rail areas



X-axis guide rail area



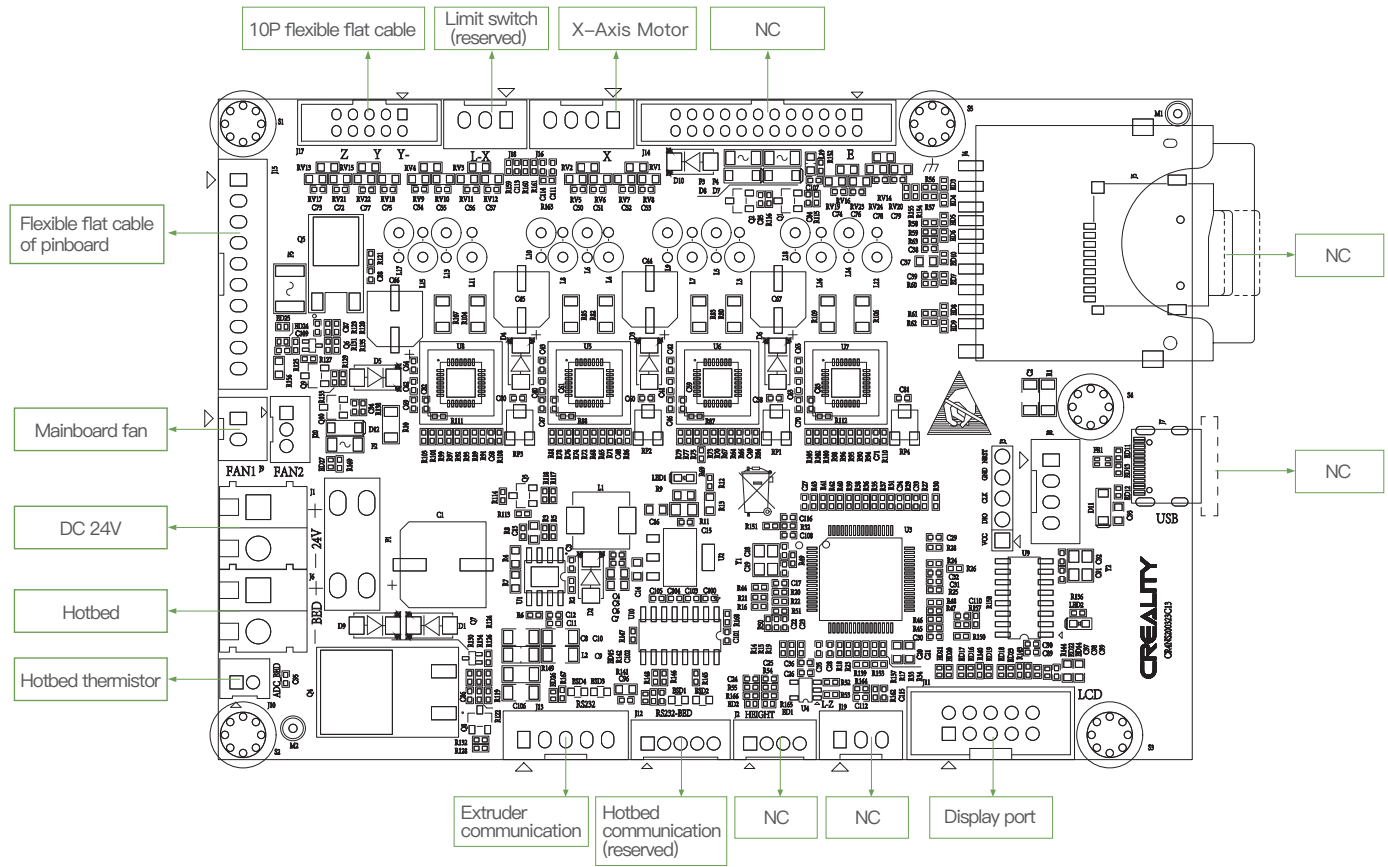
Y-axis guide rail area

8. Equipment Parameters

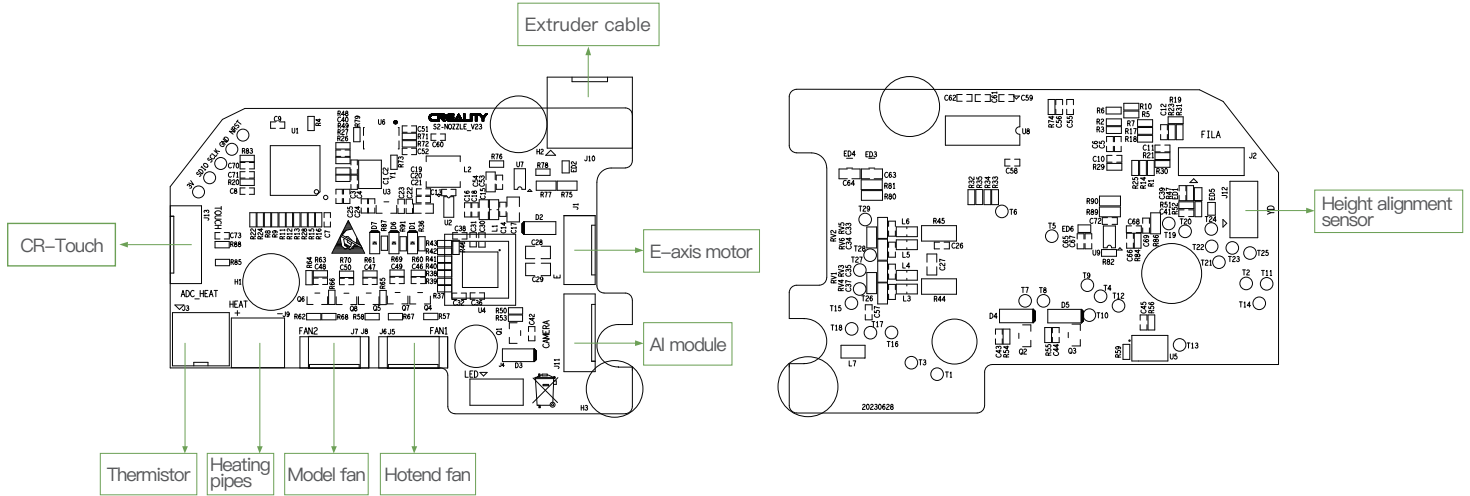


Equipment Parameters	
Model	CR-10 SE
Modeling Technolog	FDM
Modeling Dimensions	220*220*265mm
Leveling Method	Auto-leveling
Number of Nozzles	1pcs
Extruder Diameter	0.4mm
Slice Thickness	0.1-0.35mm
Precision	±0.1mm
Nozzle Temperature	≤300°C
Hotbed Temperature	≤110°C
Ambient Temperature	5°C-35°C
Filaments	PLA/PETG/PET/TPU/PLA Wood/ABS/ASA/PA/PLA-CF
Rated Power	350W
Input voltage	100-120V~, 200-240V~, 50/60Hz
Filament Detection	YES
Power Loss Recovery	YES
Printing Method	USB flash disk Printing / LAN printing / Cloud printing
Print file format	Gcode
Sliced format supported	STL/OBJ/AMF
Slicing Software	Creatlity Print/Cura/ Simplify3D/PrusaSlicer
Operating Systems	Windows/MAC/Linux
Language	中文/ English/ Español/ Deutsche/ Français/ Русский/ Português/ Italiano/ Türk/ 日本語

9. Circuit Wiring



9. Circuit 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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