

To be the Chief Evangelist

CR20 Series 3D Printer

Guide Book

To make Top-quality 3D printer

- ◆ This guidebook is for standard CR-20.
- ◆ Select the correct input voltage to match your local mains (220V or 110V)
- ◆ Because of software/hardware upgrades and model differences, new revisions may not be listed in this guide.
- ◆ Detailed instructions for use are available on the SD card.



Notes

1. Do not use the Printer in any other way not described herein in order to avoid personal injury or property damage.
2. Do not place the Printer near flammables, explosives or heat sources. It is best to place it in a well-ventilated, low-dust environment.
3. Do not expose the Printer to violent vibration or any unstable environment, because this will cause poor print quality.
4. The filaments recommended by the manufacturer are preferred as to avoid clogging in the extrusion head or Printer damage.
5. Do not use any other power cable except the one supplied. Use a grounded three-prong power outlet.
6. Do not touch the nozzle or hot bed during printing. Keep hands away from machine while in use to avoid burns or personal injury.
7. Do not wear gloves or loose clothing when operating the Printer. Preventing the movable parts from being involved in the squeeze or cutting injury to human body or printer damage.
8. Clean off filament from the nozzle tip with the provided pliers before the nozzle cools. Do not touch the nozzle directly. This can cause personal injury.
9. Clean the Printer frequently. Usually clean it while power-off, clean the body of the machine with a dry cloth to remove dust, adhered printing materials and other material of the guide rails. Use glass cleaner or isopropyl Alcohol to clean the print surface before every print for consistent results.
10. Children under 10 years of age should not use the Printer without supervision.

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Preface

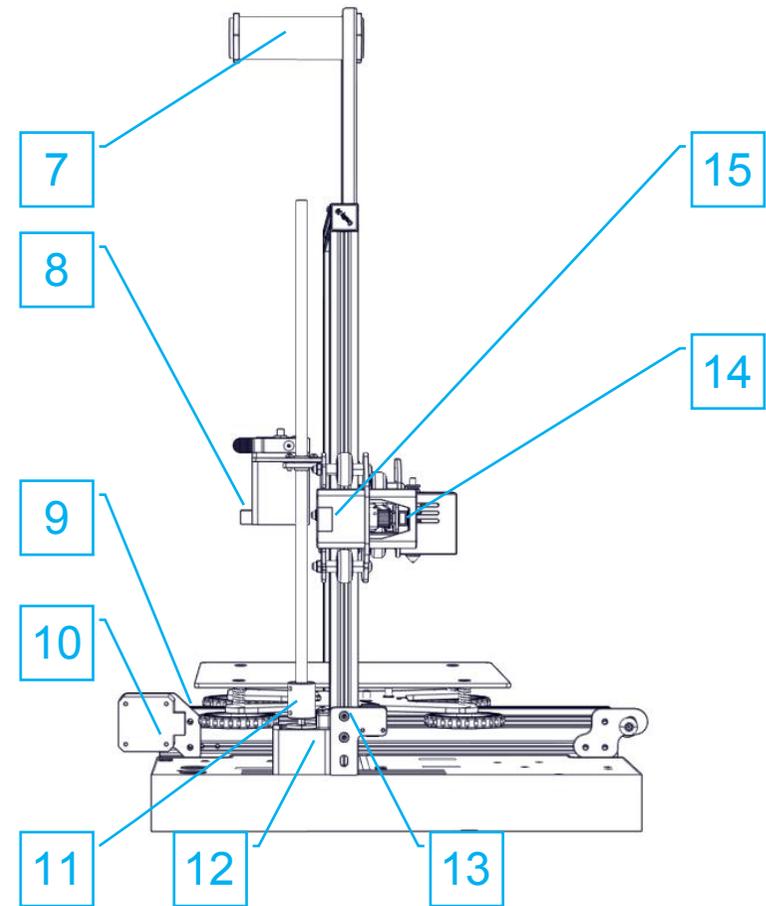
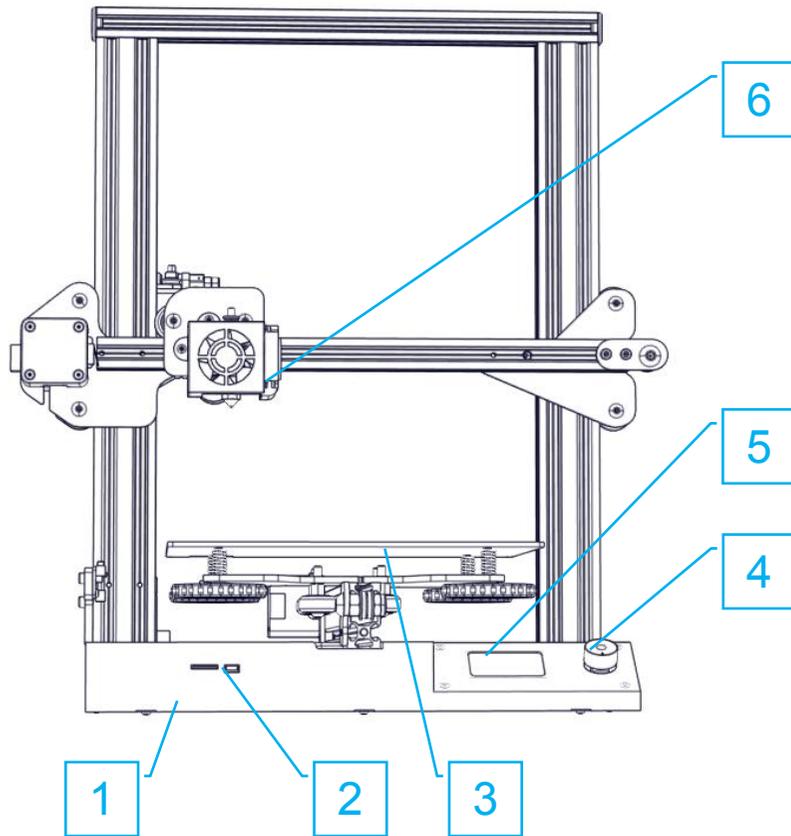
Dear consumers,

Thank you for choosing our products. For the best experience, please read the instructions before operating the Printer. Our 3D team will always be ready to give you the best service. Please contact us via the phone number or e-mail address provided at the end when you encounter any problem with the Printer.

For a better experience in using our product, you may learn how to use the Printer in the following ways:

1. View the accompanied instructions and videos on the SD card.
2. Visit our official website at www.creality3d.cn. You will find relevant software/hardware information, contact details and operation and maintenance instructions on the website.

1. Introduction



1. Base Frame
2. SD Slot and USB Port platform
3. platform
4. Control Knob
5. LCD Display Screen

6. Nozzle Kit
7. Rack
8. Extruder (E) motor
9. Y axis Limit Switch
10. Y axis Stepping motor

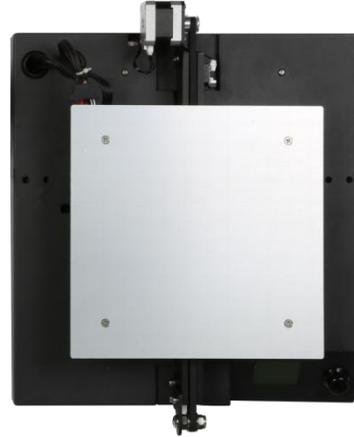
11. Coupling
12. Z axis Stepping motor
13. Z axis Limit Switch
14. X axis Limit Switch
15. X axis Stepping motor

2. General List

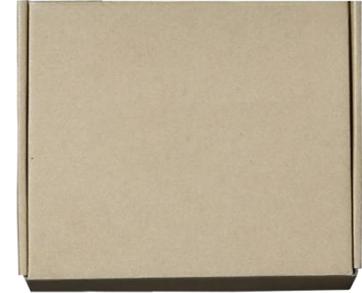
◆ Base Frame



◆ Gantry Frame



◆ Tool Kit



◆ Tool List

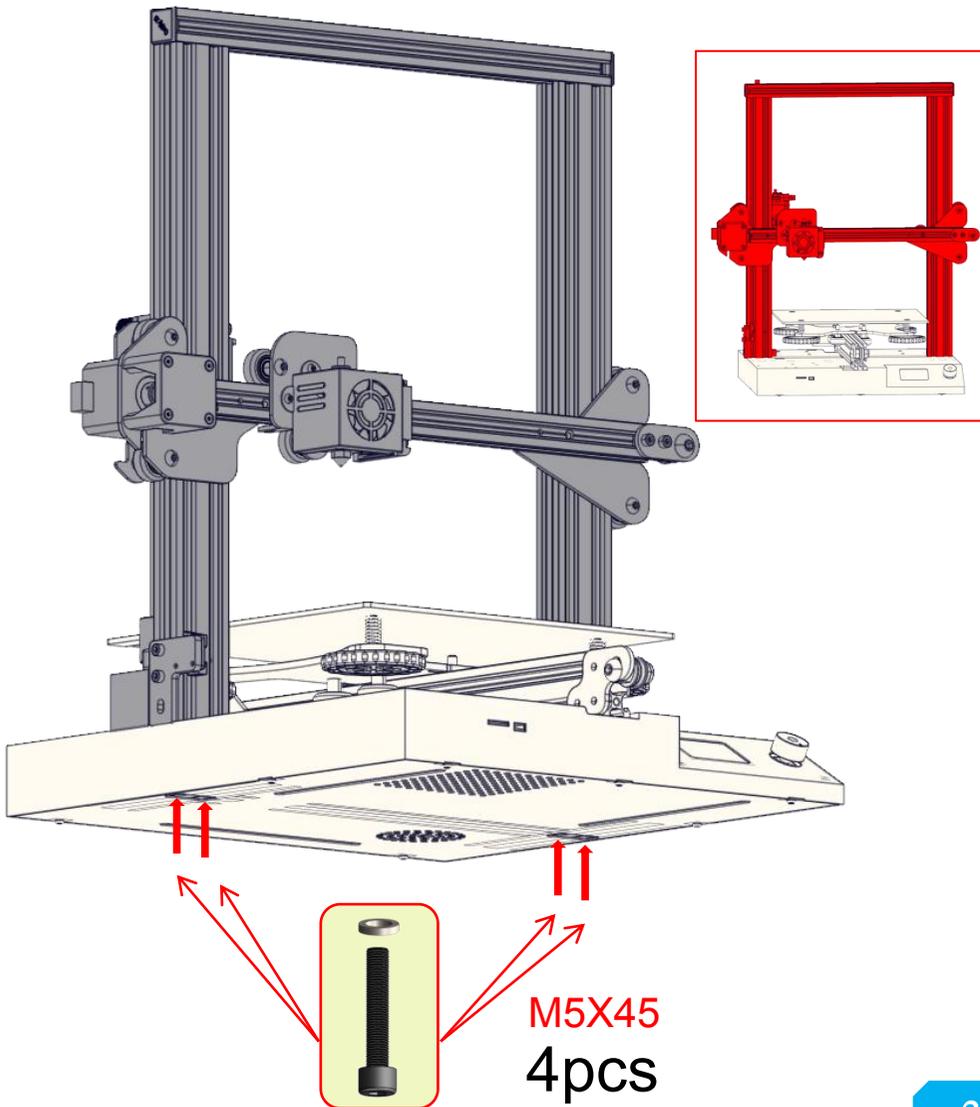
No.	Image	Name	Qty
1		Wrench and Screwdriver	1
2		SD Card and Card Reader	1
3		Scraper	1
4		Diagonal Pliers	1

No.	Image	Name	Qty
5		Nozzle Cleaner	1
6		Rack Bracket	1
7		Rack tube	1
8		Rack tube Nuts	2
9		Power Cable	1

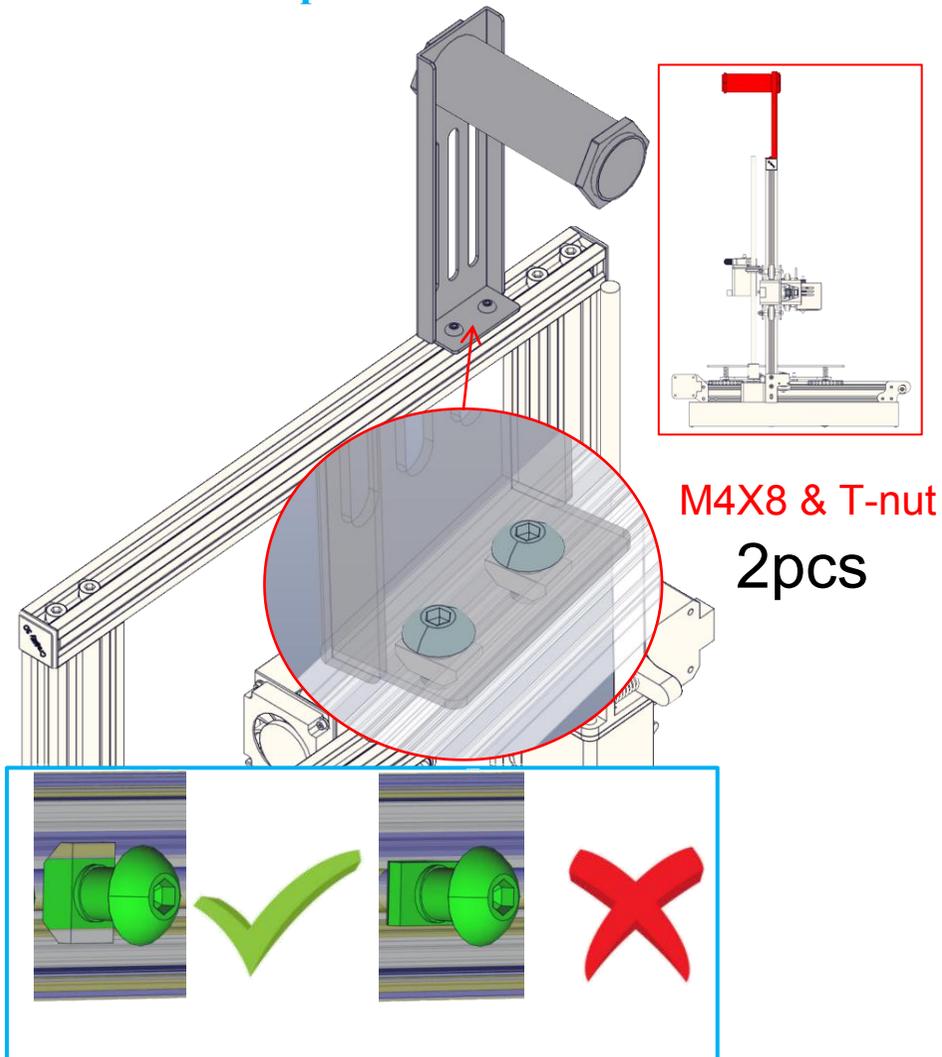
No.	Image	Name	Qty
10		Spare Parts	1
11		Sample Filament (200g)	1
12		M5X45 black cup head Bolt and Lock Washer	1
13		M4X8 Screw and M4 T-type screw	1

3.Device Installtion

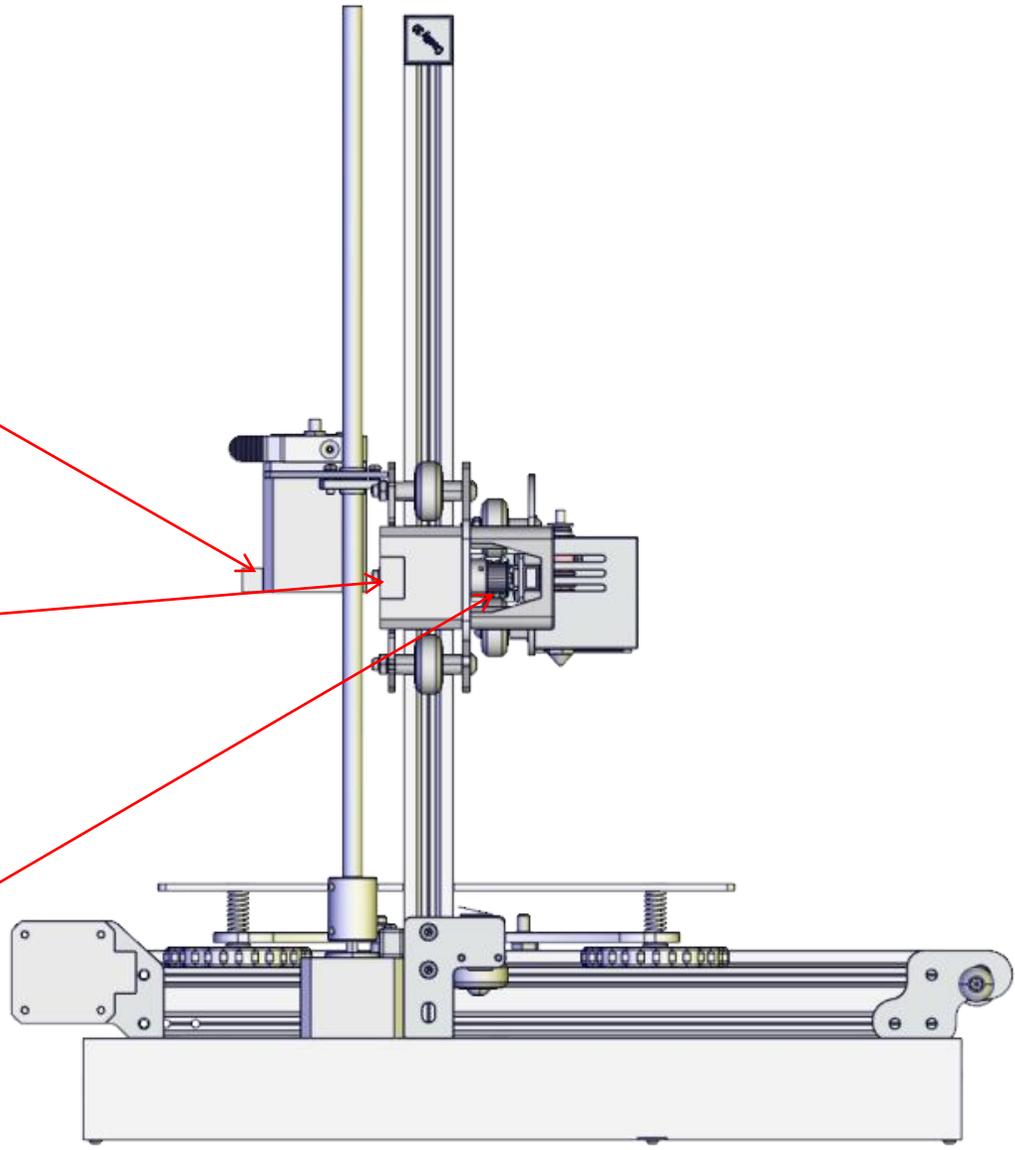
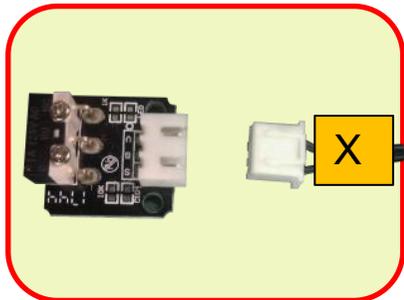
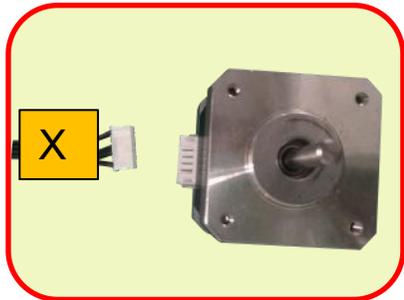
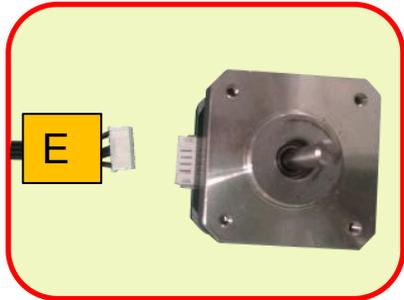
◆ Install the Gantry Frame



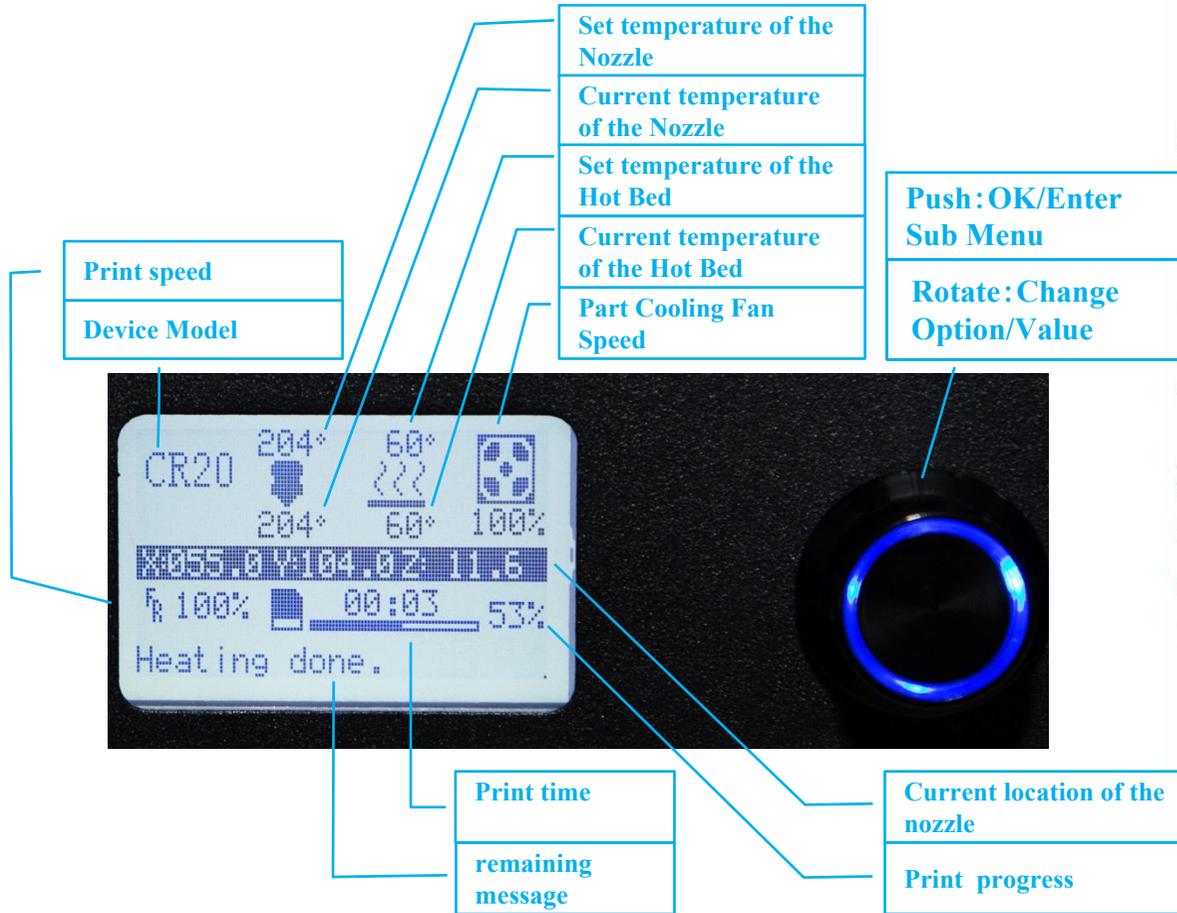
◆ Install the Spool



4.Cable Connection



5.Screen Information

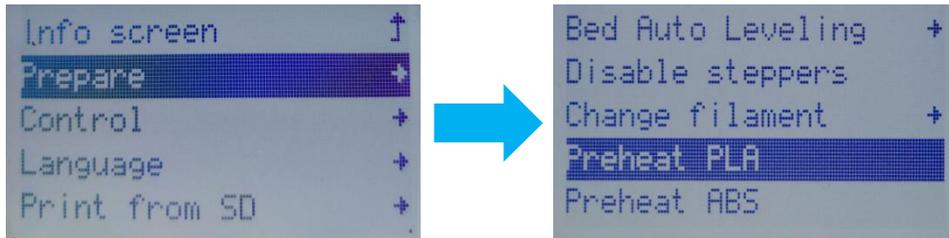


Screen Options		
Menu	Sub Menu	Explanation
↑ Info Screen ↑	↑ main ↑	Return
Prepare →	Disable Steppers	Moving X Y Z axis by your hands
	Auto Home	return to the origin
	Preheat PLA	
	Preheat ABS	
	Cooldown	Close and cooldown the nozzle
Control →	Move Axis →	Moving X Y Z axis or Extruder by given value.
	Temperature →	Heat the nozzle and the bed or change fan speed by given value
	Restore Failsafe	Restore factory setting
No card /Print from SD	Select the printing model	
Init. SD-Card /Change SD-Card		
Printing		
Tune →	Speed	Change Printing Speed by given value
	Nozzle	Change the temperature by given value
	Bed	Change the temperature by given value
	Fan Speed	Change Fan Speed by given value
	Flow	Change filament flow by given value
Pause Print		
Stop Print		

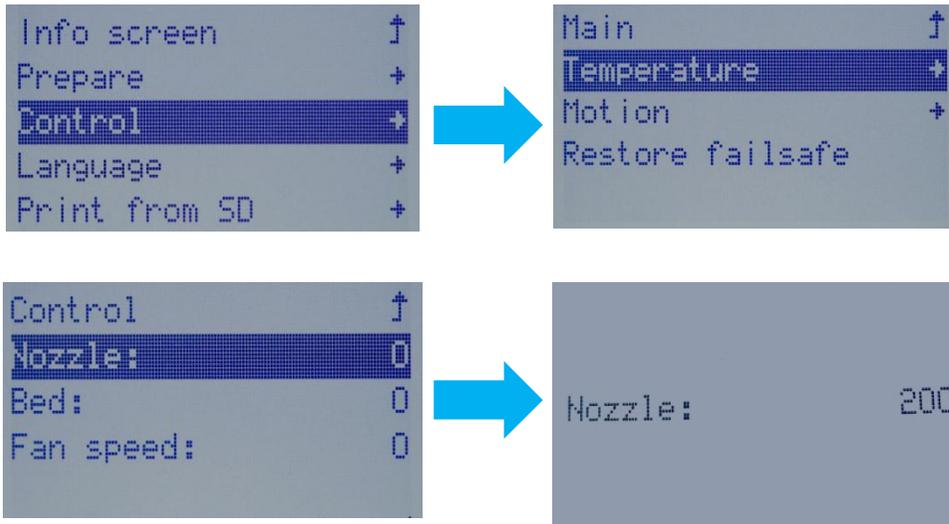
6.Loading Filament

◆ Preheat

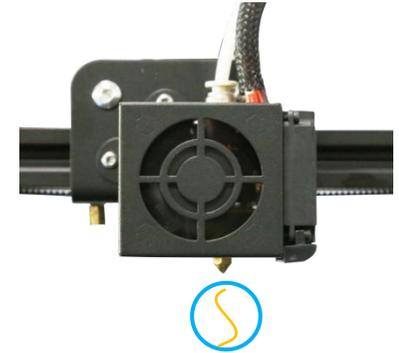
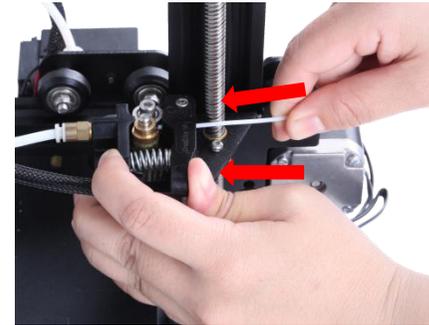
Method 1



Method 2



◆ Feeding

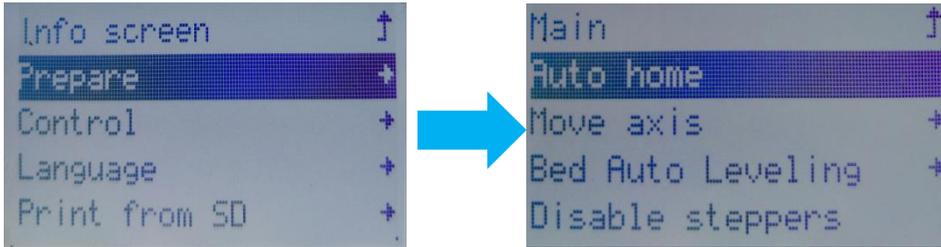


Press and hold the extruder lever then insert the 1.75mm filament through the small hole of the extruder. Continue feeding until you see filament come out the nozzle.

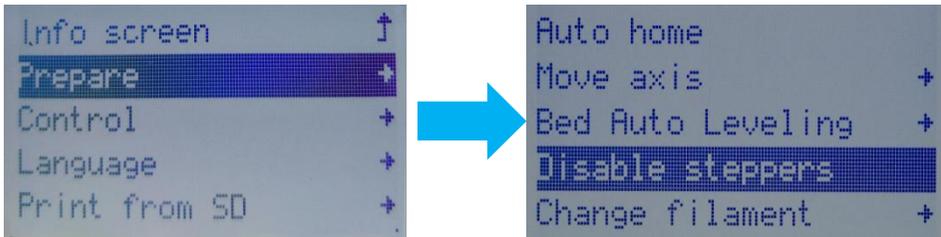
Tip: How to Replace the Filament?

- 1、Cutting filament near the Extruder and slowly feed new filament until they are fed into the new filament.
- 2、Preheating the nozzle and withdraw the filament quickly and feed the new filament.

7. Bed Leveling



1. Prepare → Auto Home. Wait until the nozzle to move back to the left/front of the platform.

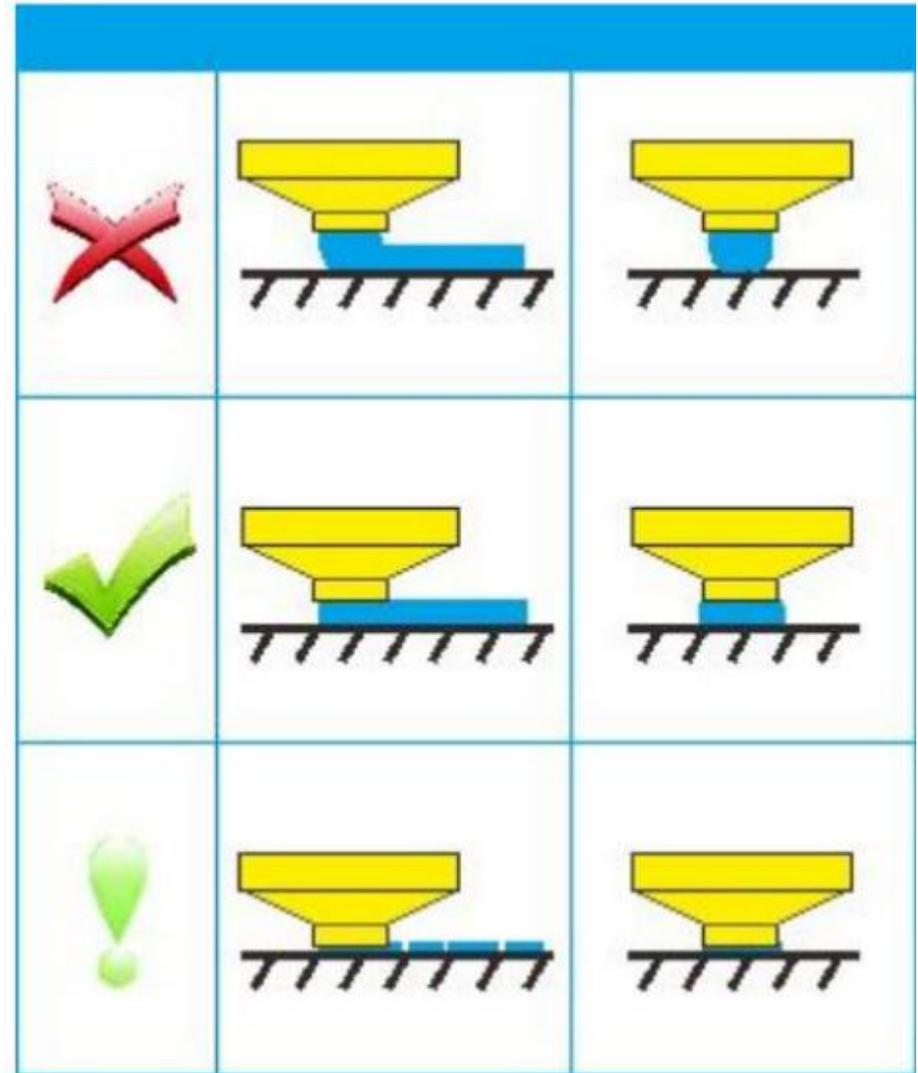


2. Prepare → Disable Steppers (Close stepper drive, release motor)



3. Move the nozzle to the front/left leveling screw and adjust the platform height by turning the knob underneath. Use a piece of A4 paper (standard printer paper) to assist with the adjustment, making sure that the nozzle lightly scratches the paper.

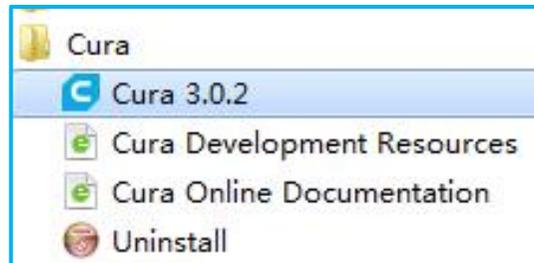
4. Complete the adjustment of the screw on all 4 corners.
5. Repeat above steps 1-2 times if necessary.



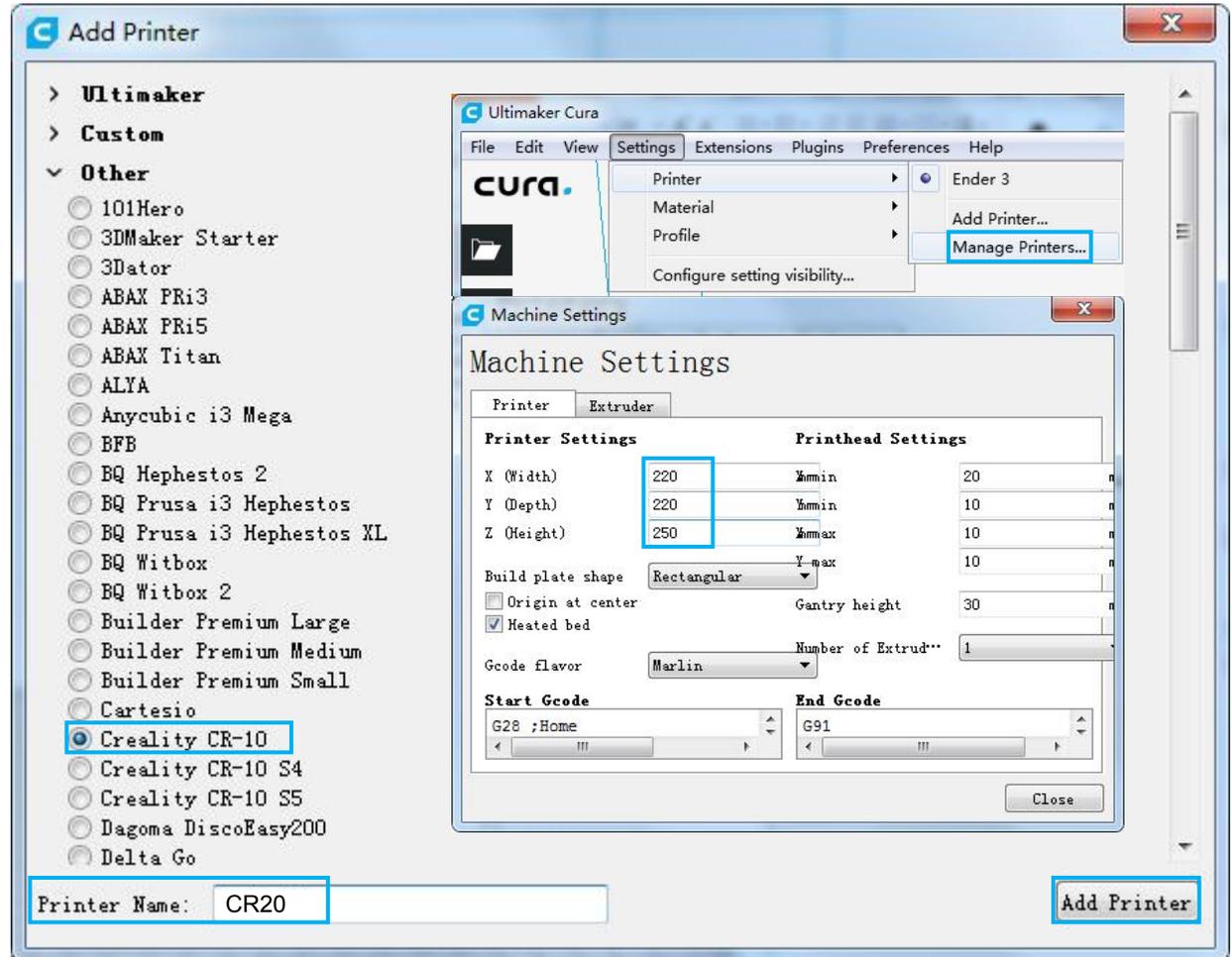
8. Software Installation



1. Double click the Cura icon to install the Cura Slicing Software.



2. Start Cura 3.0.2 from the Start Menu.

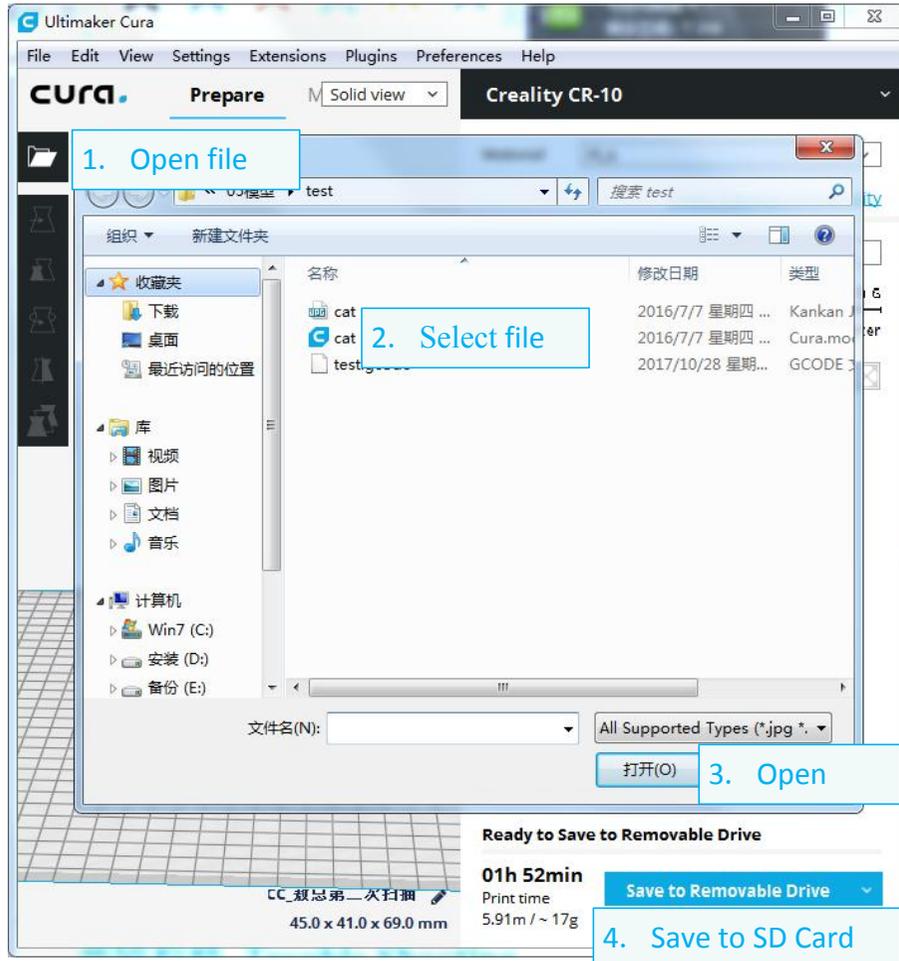


3. Select Other→Creality CR-10→Printer Name: CR20→Add Printer.
4. Setting→Printer→Manage Printers...
5. Change Printer Settings to (220,220,250) .

9. For the first Printing

1. Slicing

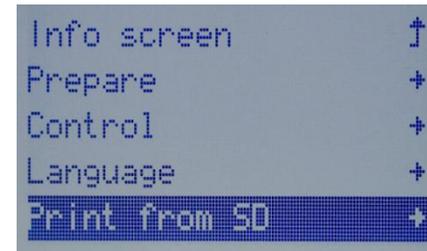
Insert SD card into computer with Reader.



2. Printing



Insert the SD card

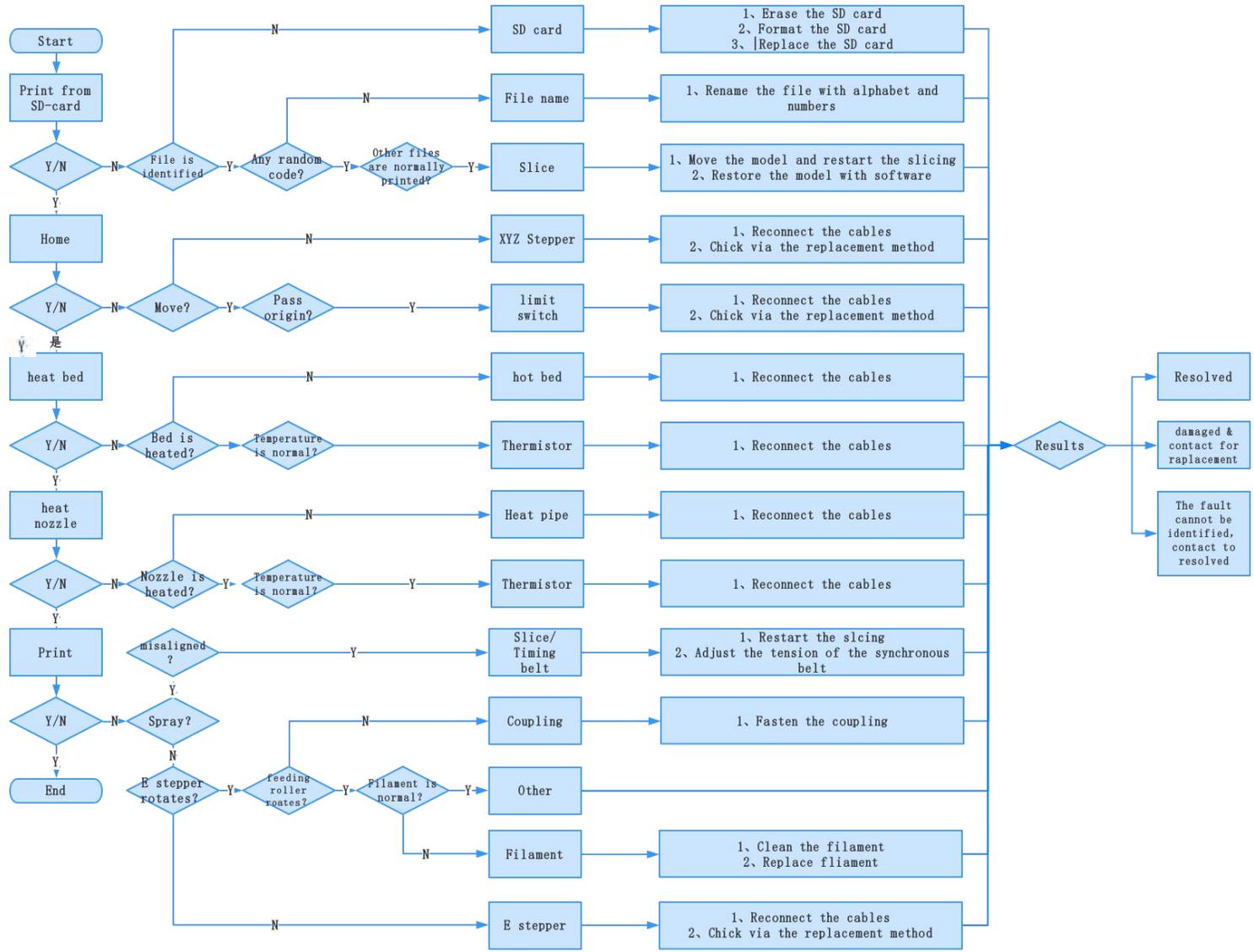


Select "Print from SD"

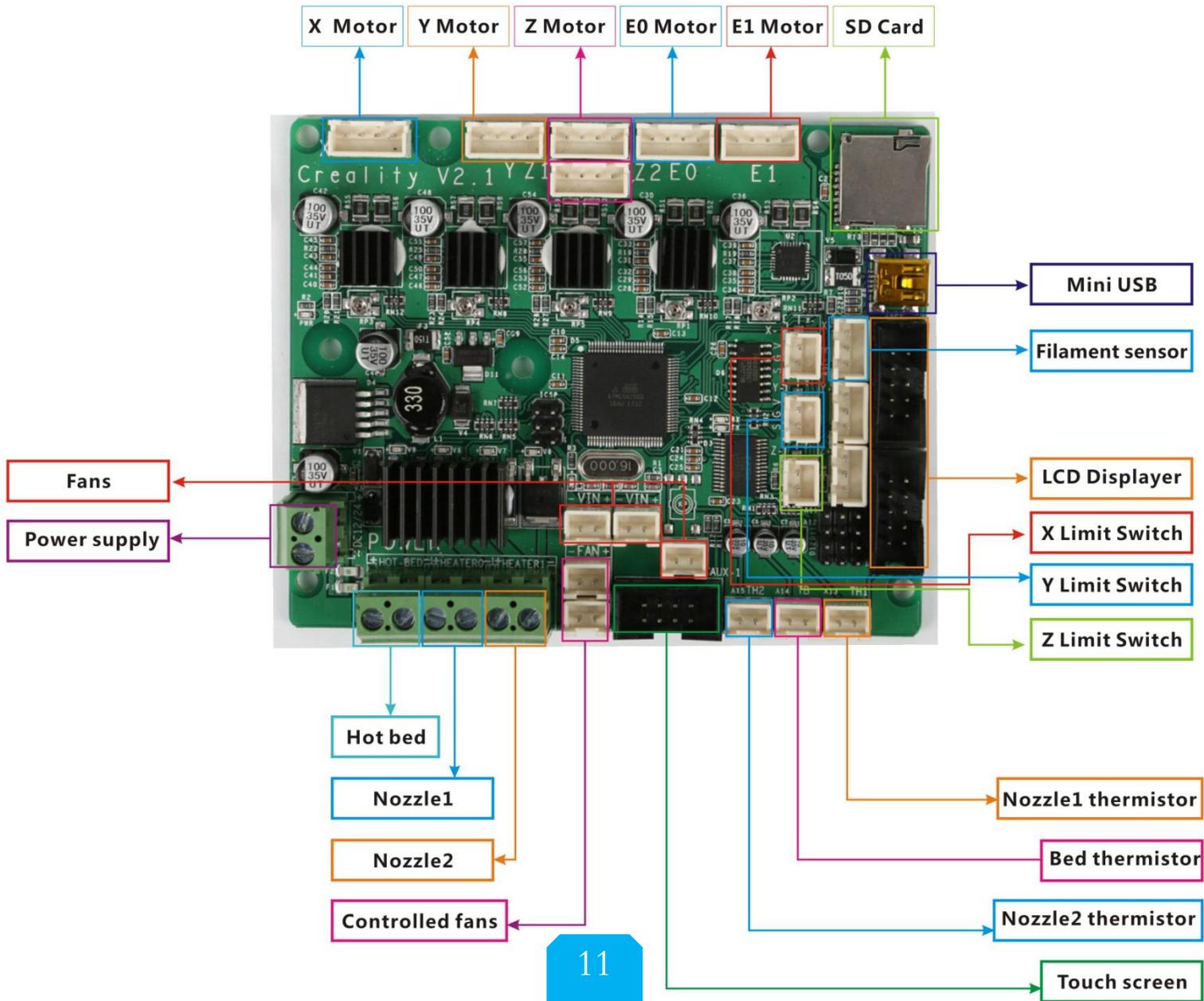


Select the file to be printed

10. Corrective maintenance



11. Circuit Wiring Diagram



12. After-Sales Service

After-Sales Service Terms

1. We provide a 12-month warranty on 3D printers (excluding the nozzle assembly) purchased on or after January 1, 2017 and a 3-month warranty on the nozzle assembly thereof. Products purchased before January 1, 2017 whose warranty periods have not expired are subject to the original warranty terms.
2. The warranty period of each product starts from the date of production. Any product with renewed warranty period is subject to the renewed warranty terms.
3. Within the warranty period, we will provide free accessories to replace those damaged during the operation in accordance with the instructions for use which are not caused by user negligence (determined by our professional assessment).
4. We will continue to provide warranty services for any product having been repaired as long as its warranty period has not expired.
5. In case of any problem, you may find the solutions in the instructions for use or search for the solutions on our official website (www.cxsw3d.com) or contact us via phone or email.
6. We provide free remote technical support for every consumer during the service life of the product. You may request solutions from our after-sales team via phone or email within working hours. For any request submitted beyond the normal working hours, we will reply as soon as possible.
7. Please provide completed after-sales service card or S/N number when applying for the warranty service. Otherwise, warranty services may be refused.
8. We are entitled to refuse warranty claims for any fault or damage due to failure to follow instructions for use, including but not limited to (i) unauthorized modification; (ii) incorrect installation or use; (iii) use of any third-party component; (iv) use of any non-specified software; (v) use of low-quality filament; (vi) use under non-specified environment; and (vii) misuse (overload) or improper maintenance (corrosion or oxidation).
9. We are entitled to refuse to provide warranty services for any fault or damage due to force majeure, including but not limited to fire, earthquake, lightning stroke, flood, violent conflict, etc.
10. We provide after-sales services between 8:30 and 21:30 every day from Monday to Saturday, except official holidays.

After-sales Service Card

Product Name: _____ Purchase Date: _____

S/N No.: _____ Purchased Channel: _____

Fault description: _____

User Name: _____

User Tel: _____

User Email: _____

Return Address: _____



Shenzhen Creality3D Technology CO.,LTD.

After-Sales Service Tel: 400-6133 882

Official Website : www.creality3d.com

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