Ender-3 3D Printer

User Manual

◆ This Manual is for the Ender-3 3D printer.
◆ Select the correct input voltage to match your local mains (230V or 115V)
◆ Because of software/hardware upgrades and model differences, new revisions may not be listed in this guide.
◆ Detailed instructions for use are available in the TF card.

V.2.1

Notes

1. Do not use the printer in other wrong ways 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, low-dust environment.
3. Do not expose the printer to violent vibration or any unstable environment, as this may cause poor print quality.
4. Before using experimental or exotic filaments, we suggest using standard filaments such as ABS or PLA to calibrate and test the machine.
5. Do not use any other power cable except the one supplied. Always use the three-pin plug .
6. Do not touch the nozzle or printing surface during operation as they may be hot. 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. Such cloths may become tangled in the printers moving parts leading to burns, personal injury, or printer damage.
8. When cleaning debris from the printer hotend, always use the provided tools. Do not touch the nozzle directly when heated. This can cause personal injury.
9. Clean the printer frequently. Always turn the power off when cleaning, and wipe with a dry cloth to clean dust, adhered printing plastics or any other material from the frame, guide rails, or wheels . Use glass cleaner or isopropyl alcohol to clean the print surface before every print for consistent results.
10. Children under the age of 10, should not use the printer without any supervision.
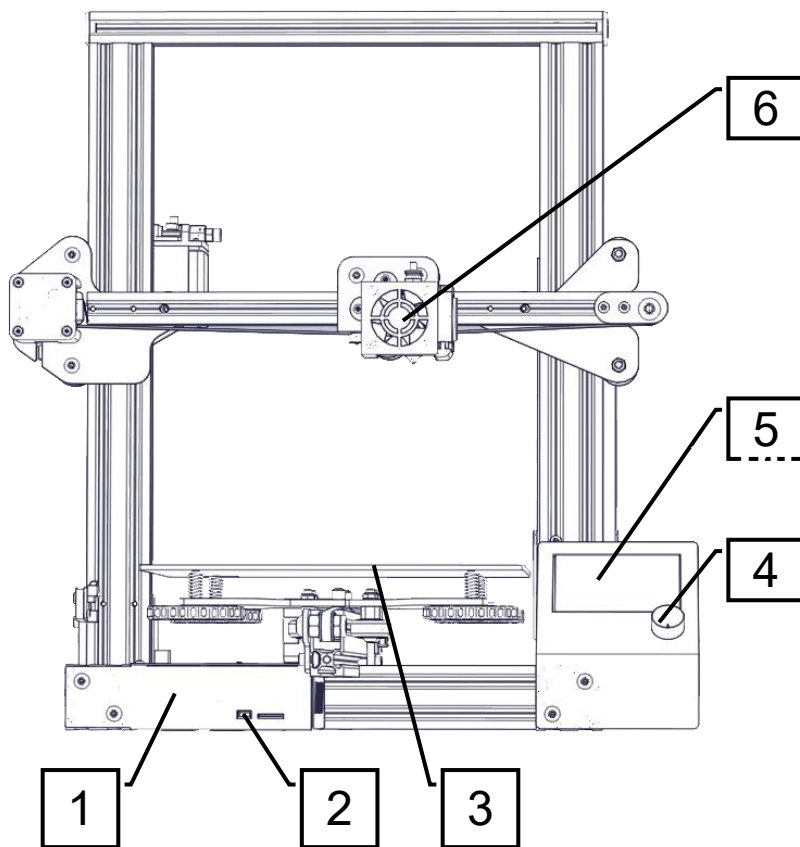
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Preface

Dear Customers:

Thank you for choosing our products. For the best experience, please read the instructions before operating the Printer. Our 3D team is always ready to provide you with assistance. Please contact us via the phone number or e-mail address provided at the end when you encounter any problem with the Printer.
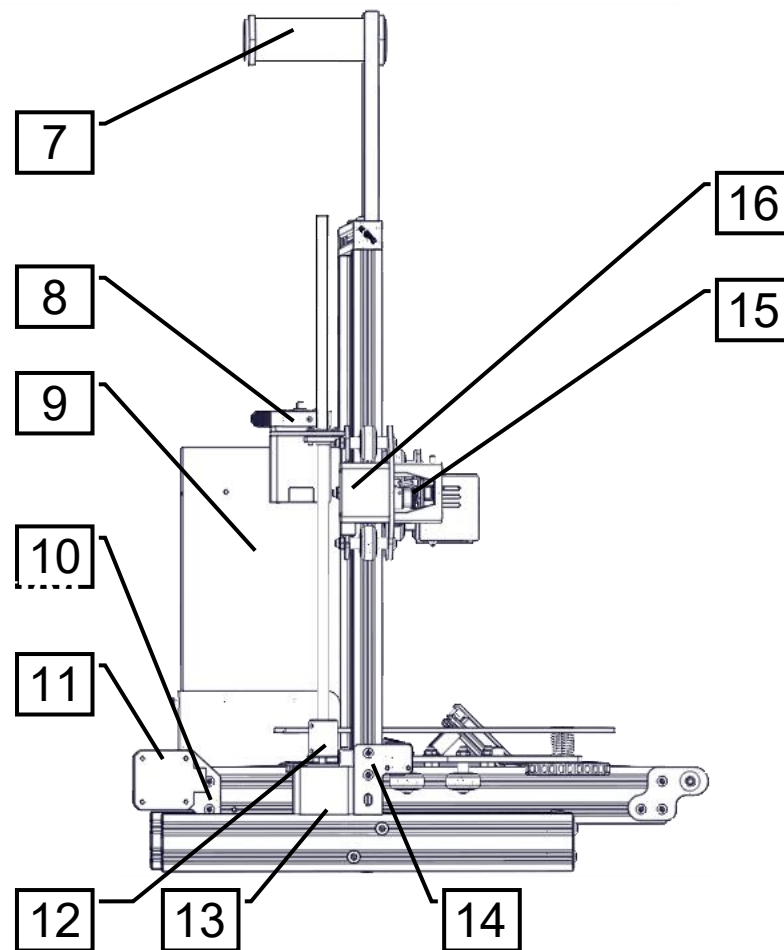
For a better experience in using our product, you may learn how to use the Printer in the following ways:

1. Learning from the instructions and videos that come with your TF card.

2. Visit our official website **www.creality3d.cn.** You will find relevant software/hardware information, contact details and operation and maintenance instructions on the website.

1. Introdution

1. Control Box	5. Display	9. Power	13. Z Stepper
2. TF Slot and USB Port	6. Nozzle Assembly	10. Y Limit Switch	14. Z Limit Switch
3. Print Surface	7. Spool Holder	11. Y Stepper	15. X Limit Switch
4. Control Knob	8. Extruder (E) Stepper	12. Coupling	16. X Stepper

2. Screen Infromation

Information Displayed

Set temperature of the Nozzle
Current temperature of the Nozzle
Set temperature of the Hot Bed
Current temperature of the Hot Bed
Part Cooling Fan Speed
Current location of the nozzle
Print time
Print progress
Prompt message

Print speed
Model

Ender-3
0° 0°
19° 22°
X 0 Y 0 Z 0
100% 00:00 0%
Ender-3 ready.

Push：OK/Enter Sub Menu
Turn：Change Option/Value

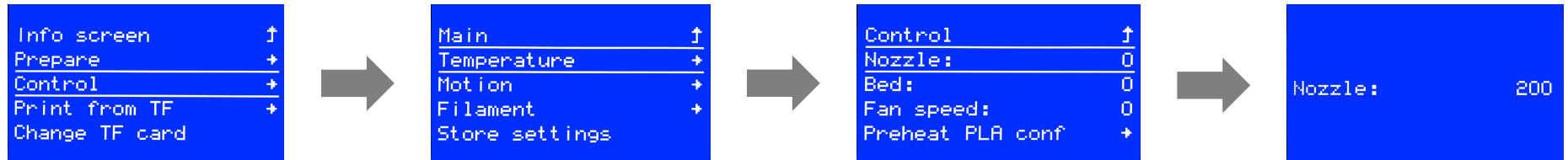| Common Functions		
Menu	Sub Menu	Explanation
↑ Info Screen ↑	↑ main ↑	Return
Prepare→	Move axis→	Moving X Y Z axis or Extruder by given value
	Auto home	Return to the origin
	Set home offsets	
	Disable steppers	Moving X Y Z axis by your hands
	Preheat PLA	
	Preheat ABS	
	Cooldown	Close and cooldown the nozzle
Control→	Temperature→	Heat the nozzle and the bed or change fan speed by given value
No TF card /Print from TF	Select the printing model	
Init.TF-Card /Change TF-Card		
About Printer		
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
	Change filament	
Pause print		
Stop print		

3. Loading Filament

1. Preheat

Method 1

```
Info screen        ↕
Prepare            →
Control            →
Print from TF      →
Change TF card
```
→
```
Auto home
Set home offsets
Disable steppers
Preheat PLA        →
Preheat ABS        →
```
→
```
Prepare            ↕
Preheat PLA
Preheat PLA End
Preheat PLA Bed
```

Method 2

```
Info screen        ↕
Prepare            →
Control            →
Print from TF      →
Change TF card
```
→
```
Main               ↕
Temperature        →
Motion             →
Filament           →
Store settings
```
→
```
Control            ↕
Nozzle:            0
Bed:               0
Fan speed:         0
Preheat PLA conf   →
```
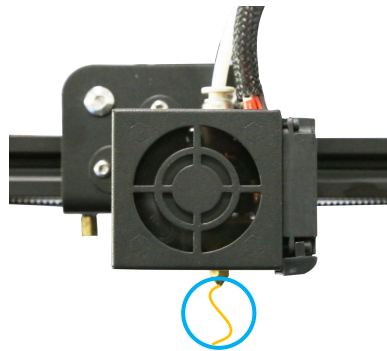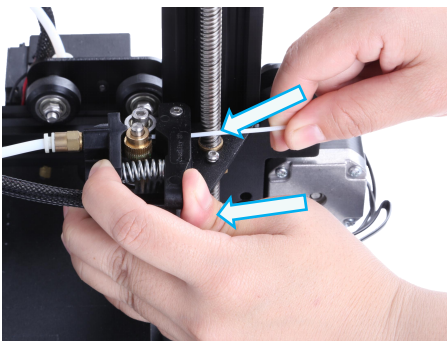→
```
Nozzle:          200
```

2. Feeding

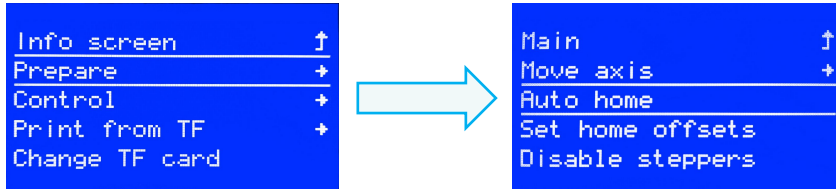Press and hold the extruder lever then insert 1.75mm filament through the small hole of the extruder. Continue feeding until you see filament out of the nozzle.
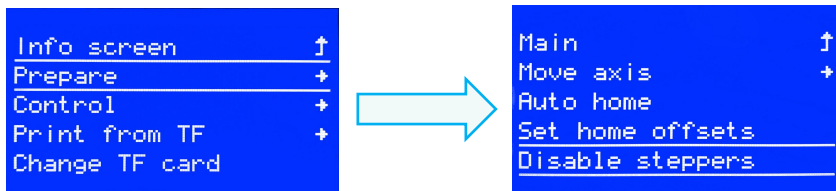
Tip: Replacing the Filament

1、 Cutting filament near the Extruder and slowly feed new filament until the new filament get into the PTFE tube.

2、 Preheating the nozzle,Press and hold the extruder, extract the filament, then feed the new filament.

4. Bed Levelling

```
Info screen        ↕
Prepare            →
Control            →
Print from TF      →
Change TF card
```
⟹
```
Main               ↕
Move axis          →
Auto home
Set home offsets
Disable steppers
```

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

```
Info screen        ↕
Prepare            →
Control            →
Print from TF      →
Change TF card
```
⟹
```
Main               ↕
Move axis          →
Auto home
Set home offsets
Disable steppers
```

2. Prepare→Disable Steppers

```
4              3


1    Ender     2
```

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 on all 4 corners
5. Repeat above steps 1-2 times if necessary.

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CREALITY
Shenzhen Creality 3D Technology CO.,LTD.

5. Software Installation

Creality Slicer_1.2.3

1. Double click to install the software.

Creality Slicer

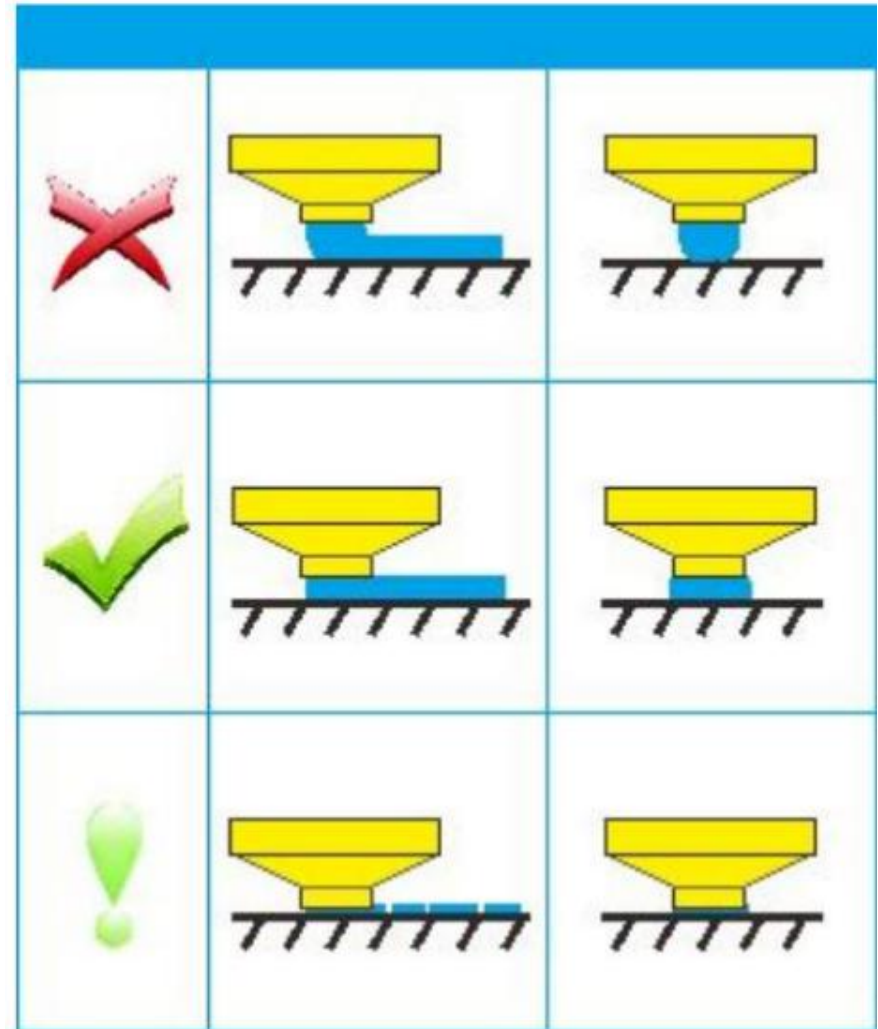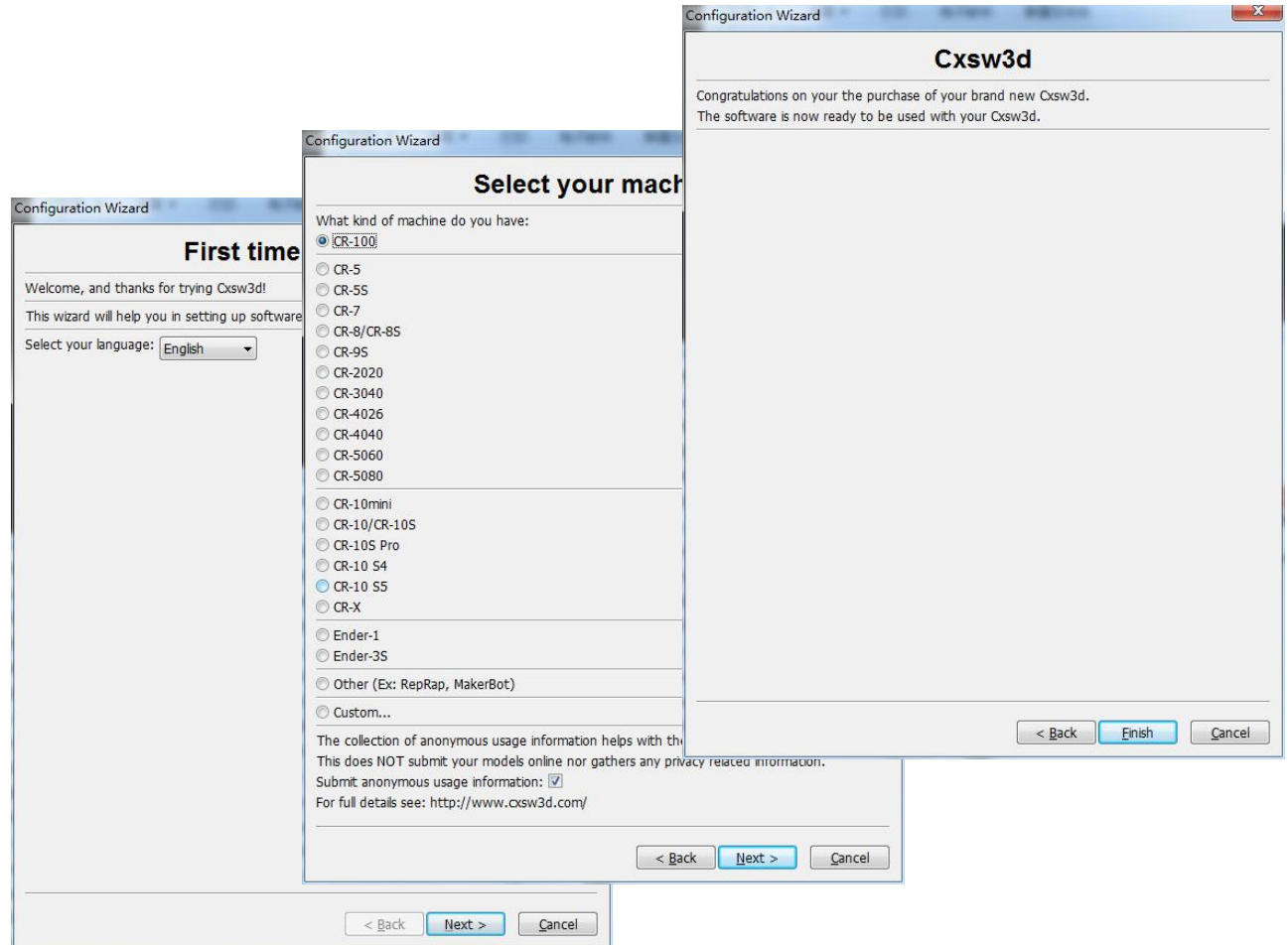2、 Double click to open the software.

Configuration Wizard

First time

Welcome, and thanks for trying Cxsw3d!

This wizard will help you in setting up software

Select your language: English

Select your mach

What kind of machine do you have:

- CR-100
- CR-5
- CR-5S
- CR-7
- CR-8/CR-8S
- CR-9S
- CR-2020
- CR-3040
- CR-4026
- CR-4040
- CR-5060
- CR-5080
- CR-10mini
- CR-10/CR-10S
- CR-10S Pro
- CR-10 S4
- CR-10 S5
- CR-X
- Ender-1
- Ender-3S
- Other (Ex: RepRap, MakerBot)
- Custom...

The collection of anonymous usage information helps with the
This does NOT submit your models online nor gathers any privacy related information.
Submit anonymous usage information: ☑
For full details see: http://www.cxsw3d.com/

Configuration Wizard

Cxsw3d

Congratulations on your the purchase of your brand new Cxsw3d.
The software is now ready to be used with your Cxsw3d.
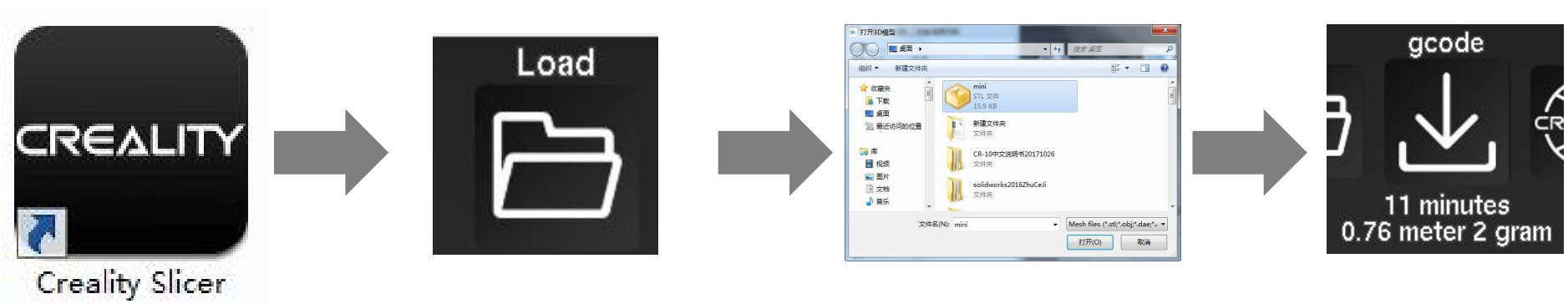
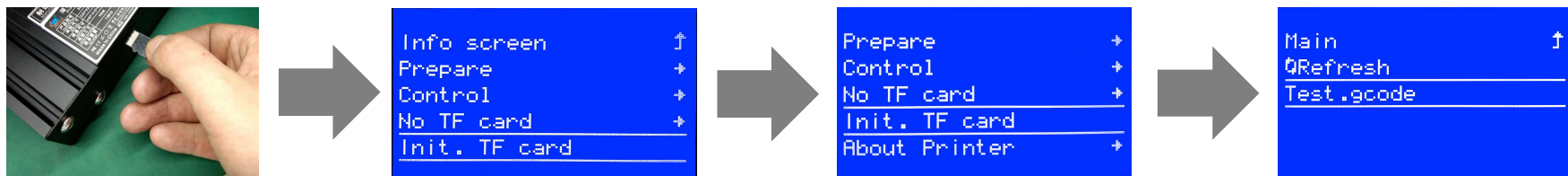3. Select language→Next→Select your machine→Next→Finish.
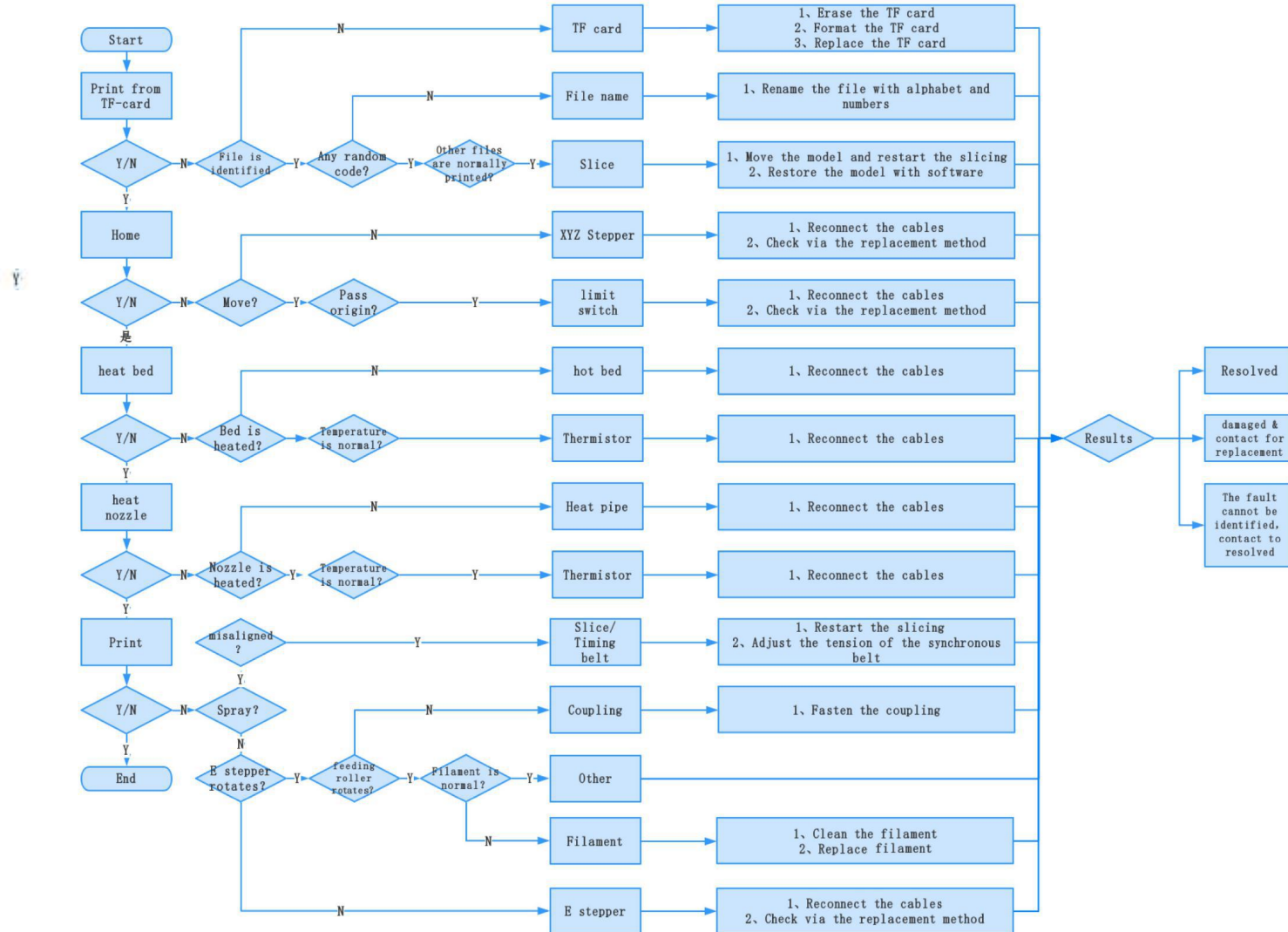
5

6. Preparing to Print

1.Slicing

Open the software→Load→Select the file→Wait for slicing to finish ,and save the gcode file to TF card.
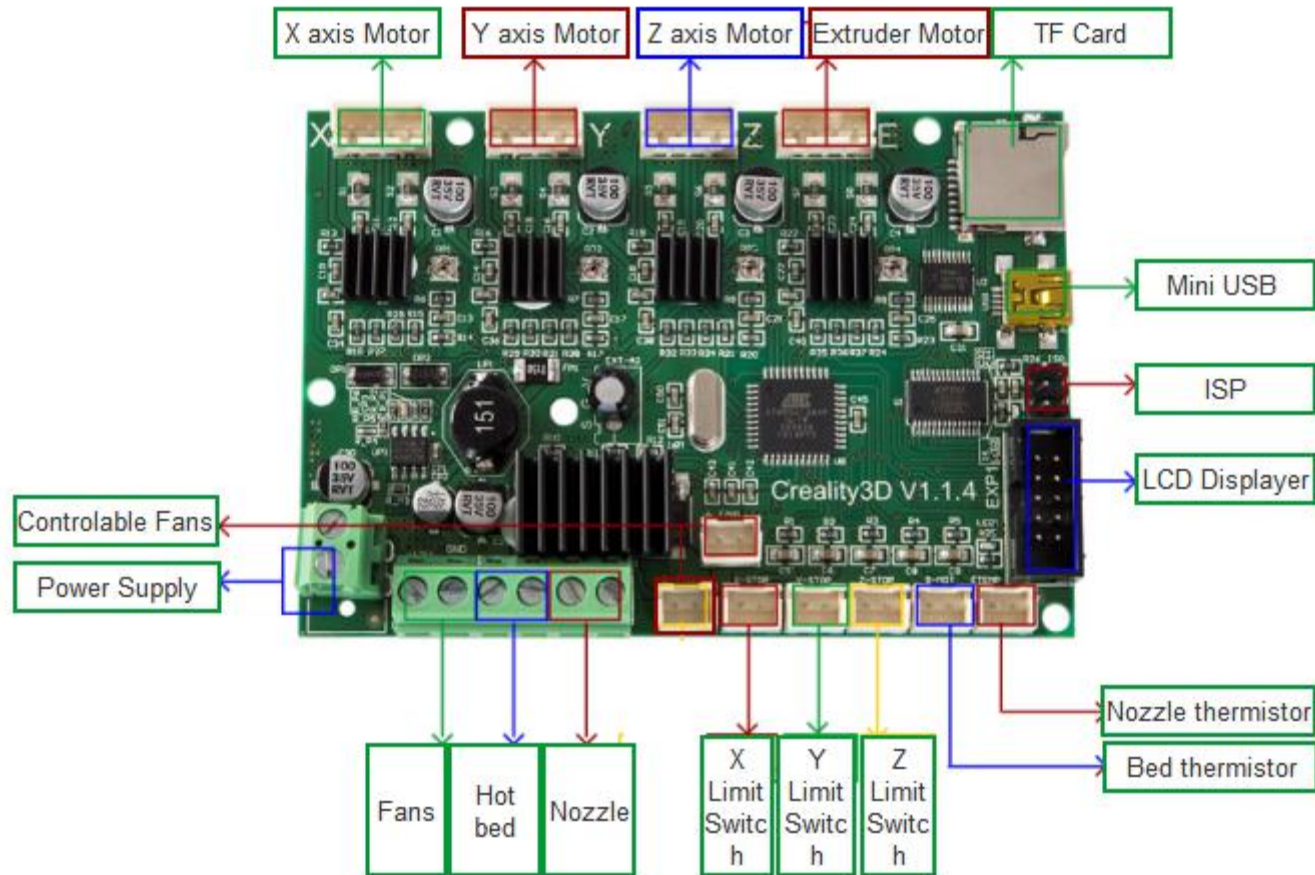
2.Printing

Insert the TF card→ Int. TF–Card → Print from TF→Select the file to be printed.

7. Trouble shooting

Flow	Decision / Target	Action
Start	TF card	1、Erase the TF card 2、Format the TF card 3、Replace the TF card
Print from TF-card	File name	1、Rename the file with alphabet and numbers
Y/N — File is identified — Any random code? — Other files are normally printed?	Slice	1、Move the model and restart the slicing 2、Restore the model with software
Home	XYZ Stepper	1、Reconnect the cables 2、Check via the replacement method
Y/N — Move? — Pass origin?	limit switch	1、Reconnect the cables 2、Check via the replacement method
heat bed	hot bed	1、Reconnect the cables
Y/N — Bed is heated? — Temperature is normal?	Thermistor	1、Reconnect the cables
heat nozzle	Heat pipe	1、Reconnect the cables
Y/N — Nozzle is heated? — Temperature is normal?	Thermistor	1、Reconnect the cables
Print — misaligned?	Slice/ Timing belt	1、Restart the slicing 2、Adjust the tension of the synchronous belt
Y/N — Spray?	Coupling	1、Fasten the coupling
End — E stepper rotates? — feeding roller rotates? — Filament is normal?	Other	
	Filament	1、Clean the filament 2、Replace filament
	E stepper	1、Reconnect the cables 2、Check via the replacement method

Results:
- Resolved
- damaged & contact for replacement
- The fault cannot be identified, contact to resolved

8. Circuit Wiring Diagram

After- Sales Service

Service

1, The printer can be returned within seven days, 15 days replacement, one year warranty, lifetime maintenance.

Replacement requirement

1. The appearance of the product is intact, without damage, scratches, smudges, cracks, deformation, etc.;

2. Machine parts, tools and others are complete;

3. Provide a complete and valid purchase invoice and warranty, product number should be the same.

Warranty coverage

1. The following accessories are not included in the warranty coverage if they are not damaged by transportation: platform sticker; platform forming plate; acrylic cover; card reader and TF card; platform glass; USB cable; filament; rack and tools,etc.

2. Profile: Before we deliver the goods, we will do the machine test, so maybe there will be light scratch, or due to long–distance transportation, which scratch the profile a little bit. in the premise of not affecting the normal use, in principle, not within the scope of warranty;

3. Nozzle assembly (nozzle, heating block, throat pipe,heat sink, Teflon tube, etc.) warranty period is 3 months, if it is damage after the warranty expires, you need to purchase another one;

4. Motherboard, LCD display, power supply, hot bed,warranty period is 12 months, if there are quality problems, you can get free maintenance; over the warranty period, can be sent back to the original factory maintenance, the users need to bear the return shipping and maintenance costs;

5. Not included in warranty coverage:
   (1) It is not possible to provide an effective after–sales service card or serial number;
   (2) The whole machine and components exceed the warranty period;

(3) Equipment failure or damage caused by unauthorized modification of the equipment (private modification includes: 1. modification of the nozzle assembly; 2. modification of the machine structure; 3. use of third–party components; 4. use of third–party firmware procedures or change the original Factory firmware program, etc.);

(4) Equipment failure or damage due to incorrect installation and use;

(5) Equipment failure or damage caused by the use of the equipment in a working environment not specified by the product;

(6) Equipment failure or damage due improper use (beyond workload, etc.) or maintenance (moisture, etc.);

(7) Equipment failure or damage due to the use of other branded components or low quality consumables.

Statement:
For better highlighting the function and effectiveness of 3d printer and promoting the development of global market economic, strengthening the user self–discipline of 3d industry and establishing a good image of 3d printing, since Creality 3d printer have passed all kinds of authorized product certificates and quality management system.hereby we declare that it is strictly forbidden to use our printer to print any products or equipment that are in violation of the specific country and regions legislation.

The revision date: May 20,2019