

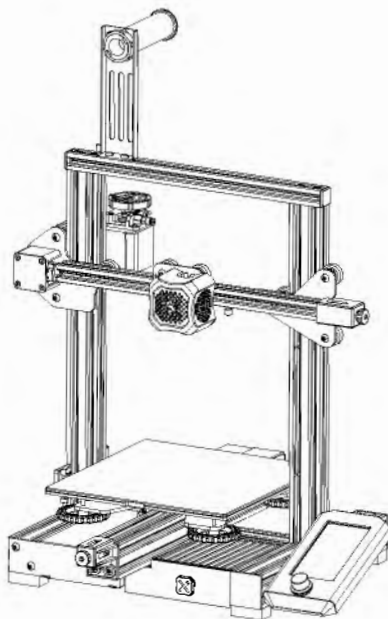


CREALITY

3D Printer User Manual

3D打印机使用说明书

Ender-3 V2



V1.1

Content 目录

Dear Consumers,

Thank you for choosing our products. For the best experience, please read the instructions before operating the Printer. Our teams will always be ready to render you the best services. Please contact us by 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 can also learn how to use the Printer in the following ways:

View the accompanied instructions and videos in the TF Card.

Visit our official website www.creality.com to find relevant software/hardware information, contact details and operation and maintenance instructions.

尊敬的创想三维用户：

感谢您选择、使用创想三维的产品。为了您使用方便，请您在使用之前仔细阅读该说明书，并严格按照说明书的指示进行操作。

创想三维团队时刻准备为您提供优质的服务。在使用过程中无论遇到什么问题，请按照说明书结尾所提供的电话、邮箱与我们联系。

为了您能够更好地体验我们的产品，您还可以从以下方式获取设备操作知识：

随机使用说明：你可以在TF卡内找到相关使用说明及视频。

创想三维官网：www.cxsw3d.com（您可以登陆创想三维官网寻找相关软硬件、联系方式、设备操作、设备保养等信息）。

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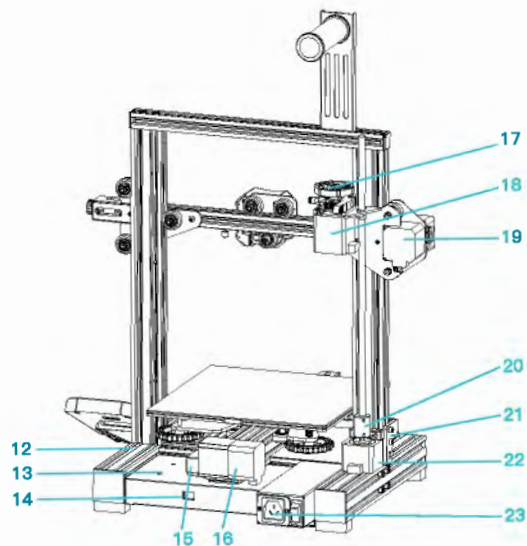
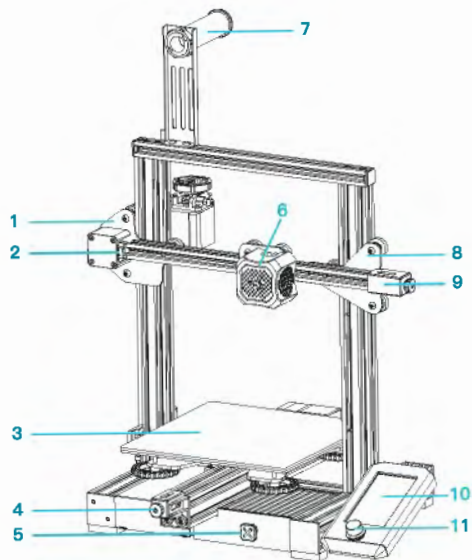
NOTES 使用须知

1. Do not use the printer 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, 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 a grounded three-prong power outlet.
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, possible bodily 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 remove dust, adhered printing plastics or any other material off 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 10 years of age should not use the printer without supervision.
11. This machine is equipped with a security protection mechanism. Do not manually move the nozzle and printing platform mechanism manually while booting up, otherwise the device will automatically power off for safety.
12. Users shall comply with related nation and region's laws, regulations and ethical codes where the equipment or produced prints by it is used, and users of our product shall not use aforesaid products to print any end-use products, objects, parts or components or any other physical prints that violate the national or regional laws, regulations and ethical codes where herein referred product and produced prints by it is located.

- 1、请勿尝试任何使用说明中没有描述的方法来使用本机，避免造成的意外人身伤害和财产损失；
- 2、请勿将本机放置在易燃易爆物品或高热源附近，请将本机放置在通风、阴凉、少尘的环境内；
- 3、请勿将打印机放置在振动较大或者其他不稳定的环境内，机器晃动会影响打印机打印质量；
- 4、建议使用厂家推荐耗材，以免造成挤出头堵塞和机器损坏；
- 5、请勿在安装过程中使用其他产品电源线代替，请使用本机附带的电源线，电源插头需接插在带有地线的三孔插座；
- 6、请勿在打印机工作时接触喷嘴以及热床，以防止出现高温烫伤，造成人身伤害；
- 7、请勿在操作机器时佩戴手套或缠绕物，以防可动部件对人身部件造成卷入挤压和切割伤害；
- 8、在打印完后及时利用喷头的余热借助工具将喷头上的耗材清理干净，清理时请勿直接用手触摸喷头，以防出现烫伤；
- 9、常做产品维护，定期在断电的情况下，用干布对打印机做机身清洁，拭去灰尘和粘结的打印材料、导轨上的异物；
- 10、年龄在10岁以下的儿童，请勿在没有人员监督的情况下使用本机，以免造成人身伤害；
- 11、本机设有安全保护机制，请勿在开机状态下手动快速移动喷头及打印平台机构，否则设备会自动断电关机保护；
- 12、使用者应遵守设备打印产品与设备所在地及相应国家及地区法律、法规，恪守职业道德，严禁使用我司产品打印有违设备打印产品与设备所在地及相应国家、地区法律禁止的任何产品或物件。

Product introduction

设备简介



- 1 XE-axis kit XE轴组件
- 2 X-axis limit switch X轴限位开关
- 3 Print platform 打印平台
- 4 Y-axis tensioner Y轴张紧器
- 5 Tool box 工具箱
- 6 Extruded kit 挤出组件
- 7 Material rack and spool holder 料架及料管筒
- 8 Z-axis passive block Z轴被动块

- 9 X-axis tensioner X轴张紧器
- 10 Screen 显示器
- 11 Knob switch 旋钮开关
- 12 Machine base 机器底座
- 13 Power supply 电源
- 14 Voltage regulator 电压调节档
- 15 Y-axis limit switch Y轴限位开关
- 16 Y-axis motor Y轴电机

- 17 Indication knob 指示旋钮
- 18 E-axis motor E轴电机
- 19 X-axis motor X轴电机
- 20 Coupling 联轴器
- 21 Z-axis limit switch Z轴限位开关
- 22 Z-axis motor Z轴电机
- 23 Power switch and socket 电源开关及插座

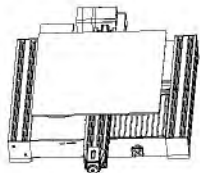
Equipment parameters

设备参数

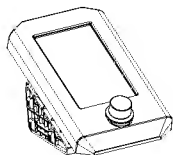
Basic Parameters 基本参数	
Model 型号	Ender-3 V2
Print size 成型尺寸	220*220*250mm
Forming technology 成型技术	FDM
Number of nozzle 喷头数量	1
Layer thickness 打印层厚	0.1mm-0.4mm
Nozzle diameter 喷嘴直径	Standard 标配 0.4mm
XY axis precision 精度	±0.1mm
Filament 打印材料	Φ1.75mm PLA
File format 支持格式	STL/OBJ/AMF
Working mode 打印方式	Memory card offline printing or online printing 存储卡脱机打印或联机打印
Compatible slicing software 可兼容切片软件	3D Creator Slicer, Repetier-Host, Cura, Simplify3D 创想三维切片软件、Repetier-Host、Cura、Simplify3D
Power specification 电源规格	Input 输入: AC 115-230V 50/60Hz Output 输出: DC 24V
Total power 总功率	350W
Hotbed temperature 热床温度	≤100°C
Nozzle temperature 喷嘴温度	≤250°C
Resume printing function 断电续打	Yes 有
Filament sensor 断料检测	No 不支持
Dual z-axis screws 双Z轴丝杆	No 不支持
Language switch 语言切换	English 中文
Computer operating system 电脑操作系统	Windows XP/Vista/7/10/MAC/Linux
Print speed 打印速度	≤180mm/s, 30-60mm/s normally ≤180mm/s, 正常为30-60mm/s

Spare parts

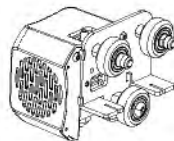
主要零部件清单



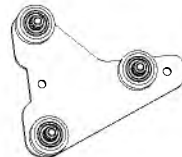
1 Printer base x 1
底座组件



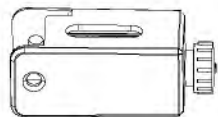
2 Display kit x 1
显示屏组件



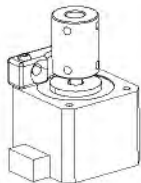
3 Extruded kit x 1
挤出组件



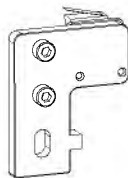
4 Z-axis passive block x 1
Z轴被动块



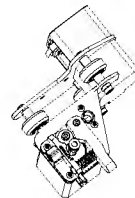
5 X-axis tensioner x 1
X轴张紧器



6 Z-axis motor kit x 1
Z轴电机组件



7 Z-axis limit switch kit x 1
Z轴限位开关组件



8 XE axis kit x 1
XE轴组件



9 Z-axis profile(left) x 1
Z轴型材(左)



10 Z-axis profile(right) x 1
Z轴型材(右)



11 Gantry profile x 1
龙门架上型材



12 X-axis profile x 1
X轴型材

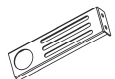


13 T-type screw x 1
T型丝杆

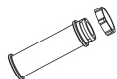
Spare parts

零部件清单

Accessory tool list 配件工具清单



- 14 Material rack x 1
料架



- 15 Material pipe and nut x 1
料架筒及料架螺母



- 16 2020 profile cover x 2
2020型材盖



- 17 Synchronous belt x 1
同步带



- 18 Metal blade x 1
金属铲刀



- 19 Diagonal pliers x 1
剪钳



- 20 Cable tie x 1
扎带



- 21 Needle x 1
通针



- 22 Storage card and card reader x 1
存储卡和读卡器



- 23 Pneumatic joint x 2
气动接头



- 24 Power cable x 1
电源线



- 25 Wrenches and screwdrivers x 1
扳手和螺丝刀



- 26 Blue line claw x 2
蓝色线夹



- 27 Hexagon socket flat round head screw M5X8 x 2
内六角平圆头螺钉M5X8



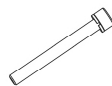
- 28 Hexagon socket countersunk head screw M4X18 x 2
内六角沉头螺钉M4X18



- 29 Hexagon socket head spring washer combination screw M5X25 x 5
内六角圆柱头弹垫组合螺钉M5X25



- 30 M5T nuts x 2
M5 T型螺母



- 31 Hexagon socket head spring washer combination screw M5X45 x 5
内六角圆柱头弹垫组合螺钉M5X45



- 32 Hexagon socket flat round head spring washer combination screw M4X16 x 5
内六角平圆头弹垫组合螺钉M4X16



- 33 Filament x 1
耗材



- 34 Indication knob x 1
指示旋钮



- 35 Hexagon socket countersunk head screw (black) M4X14 x 1
内六角沉头螺钉(黑)M4X14

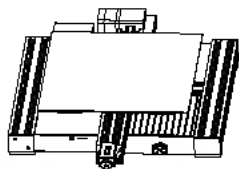


- 36 Nozzle x 1
喷嘴

1

Installation of Z-axis limit switch kit and Z-axis profiles

安装Z轴限位开关组件, Z轴型材



1 Printer base x 1
底座组件



9 Z-axis profile(left) x 1
Z轴型材(左)



10 Z-axis profile(right) x 1
Z轴型材(右)



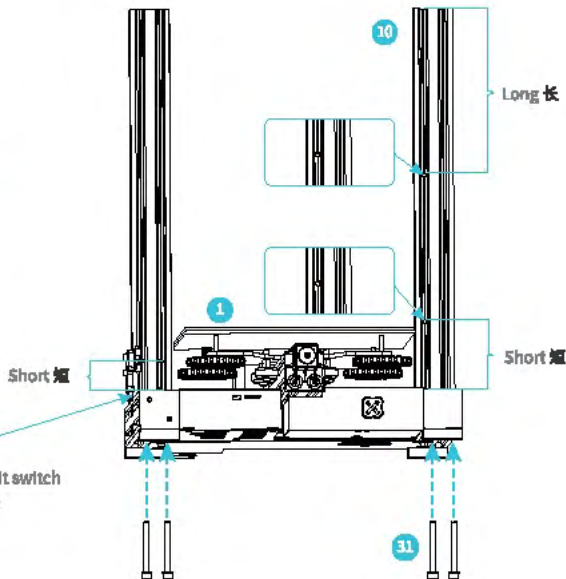
7 Z-axis limit switch kit x 1
Z轴限位开关组件



31 Hexagon socket head spring
washer combination screw
M5X45 x 4 内六角圆柱头弹簧
组合螺钉M5X45



Install Z-axis limit switch
安装Z轴限位开关



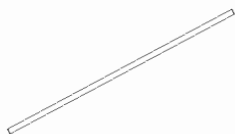
Step: Put the endstops sensor on Z-axis (left) like the picture above. Then use the four pieces screw MSX45 to fix Z-axis with the base.

步骤: 把限位传感器安装到Z轴型材(左)如上图, 用4颗内六角圆柱头弹簧组合螺钉M5X45将Z轴型材锁紧在底座组件上。

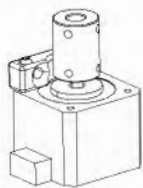
2

Install Z-axis motor kit and t-type screw

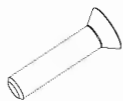
安装Z轴电机组件、T型丝杆



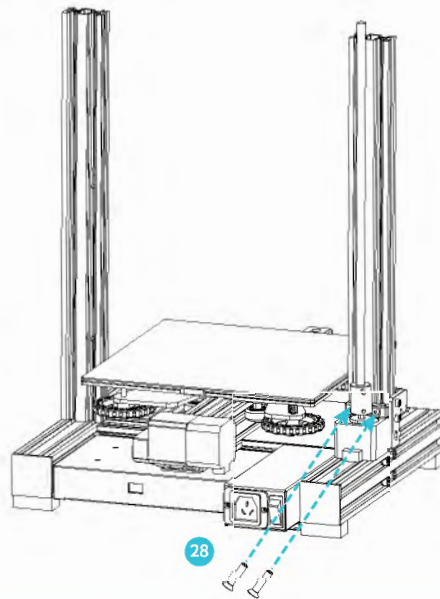
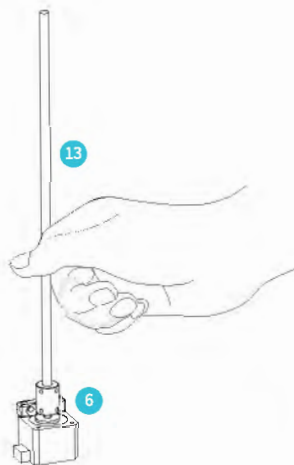
13 T-type screw x 1
T型丝杆



6 Z-axis motor kit x 1
Z轴电机组件



28 Hexagon socket countersunk
head screw M4x18 x 2
内六角沉头螺钉M4X18



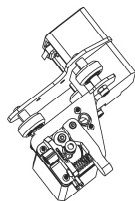
Steps: Lock the T-shaped screw rod on the Z-axis motor component, and then use two M4X18 screws to slightly lock the Z-axis motor component on the profile (as shown above)

步骤：把T型丝杆锁定在Z轴电机组件上，然后用两颗M4X18螺钉将Z轴电机组件微锁定在型材上（如上图示）。

3

Install pneumatic joint, XE-axis kit and synchronous belt

安装气动接头、XE轴组件、同步带



8 XE axis kit x 1
XE轴组件



12 X-axis profile x 1
X轴型材



23 Pneumatic joint x 1
气动接头



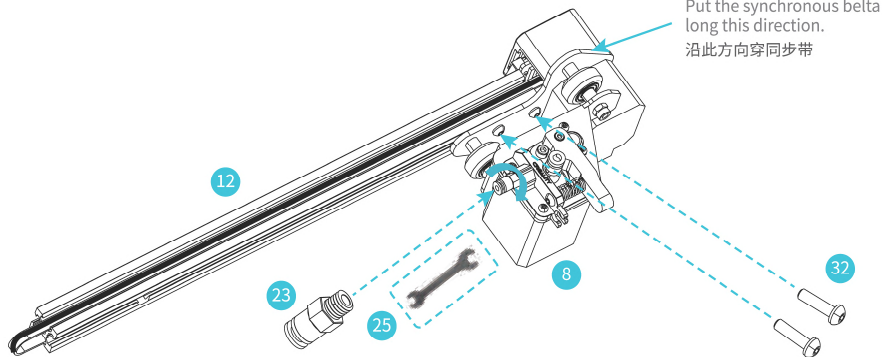
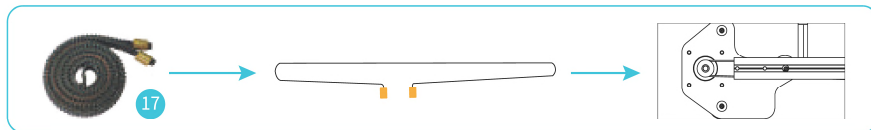
32 Hexagon socket flat round head spring washer combination screw M4X16 x 2
内六角平圆头弹垫组合螺钉 M4X16



17 Synchronous belt x 1
同步带



25 Open-end wrench x 1
开口扳手



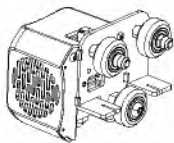
Step: Tighten the tube connector by open end wrench. And fix the XE-axis kit with two pieces M4*16 screw. Put the timing belt through the XE-axis kit with direction same as the picture.

步骤：装气动接头时用开口扳手拧紧；用两颗M4X16螺钉，将XE轴组件固定在型材上；将同步带穿过XE轴组件(注意同步带方向)如上图示。

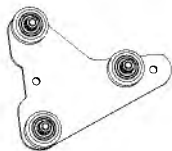
4

Install extrusion kit, Z-axis passive block

安装挤出组件、Z轴被动块



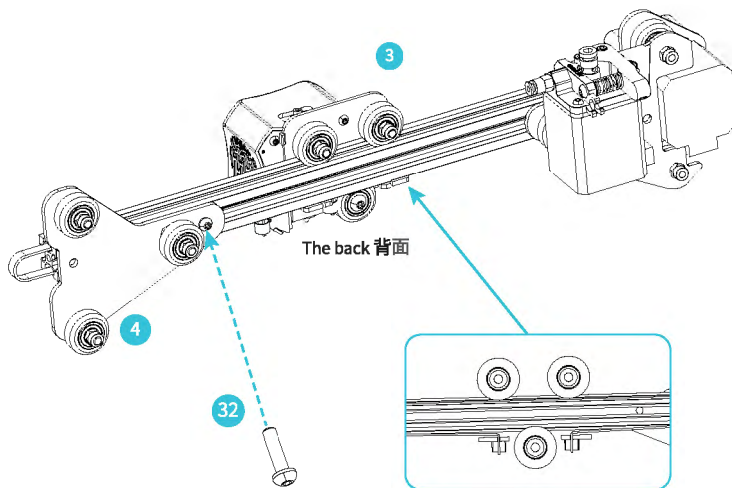
3 Extruded kit x 1
挤出组件



4 Z-axis passive block x 1
Z轴被动块



32 Hexagon socket flat round head
spring washer combination screw
M4X16 x 1 内六角平圆头弹垫组合螺钉
M4X16



Steps: Put the synchronous belt into the profile along the v-wheel of the extrusion kit. When pushing it into the middle, as shown in the figure; lock the z-axis passive block with one M4×16 screw.

步骤：将同步带贴紧型材同时沿着挤出组件的V轮套进型材，推入中段，如上图示；用1颗M4X16圆头螺钉将Z轴被动块锁住。

5

Install X-axis Tensioner

安装X轴张紧器



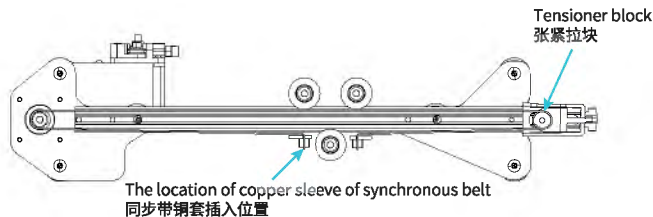
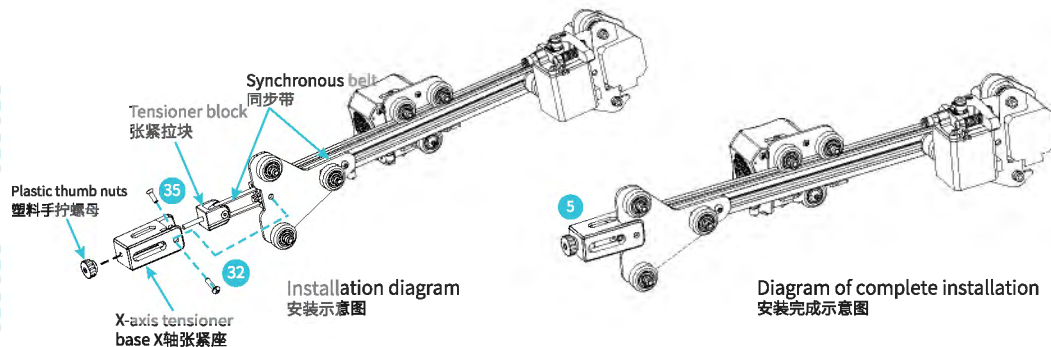
5 X-axis tensioner x 1
X轴张紧器



32 Hexagon socket flat round head
spring washer combination screw
M4X16 x 1 内六角平圆头弹垫组合螺
钉M4X16



35 Hexagon socket countersunk
head screw (black) M4X14 x 1
内六角沉头螺钉(黑) M4X14



Section diagram of synchronous belt moving 同步带走线剖面示意图



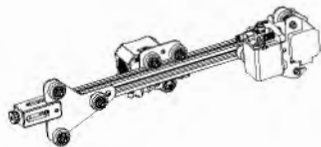
Steps: Insert the timing belt into the tensioner block, and put it into the X-axis tensioner together with the timing belt, tighten it with a plastic hand screw nut, and then lock it with round head M4X16 and countersunk head M4X14 screws both sides of the Z axis passive block.

步骤: 将同步带插入张紧拉块, 连同同步带一起套进X轴张紧器, 塑料手拧螺母拧住; 用圆头M4X16和沉头M4X14螺钉将它锁紧在Z轴被动块两侧。

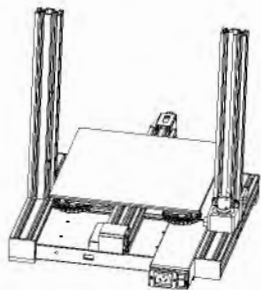
6

Install Z-axis moving kit

安装Z轴移动组件



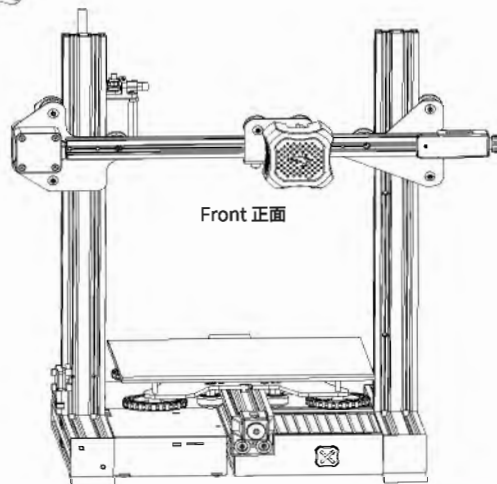
Take the fifth step: assembled components
承接第五步: 装好的组件



Take the second step: assembled components
承接第二步: 装好的组件



Back 背面



Front 正面



Steps: Make the Z-axis moving kit insert the two ends of the Z-axis profile along V-wheel on both sides. As shown in the figure above.

步骤: 将Z轴移动组件, 沿着两边V轮插入Z轴型材两端, 如上图所示。

7

Install the gantry profile, display kit

安装龙门架上型材、显示屏组件



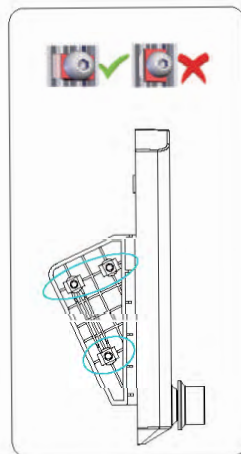
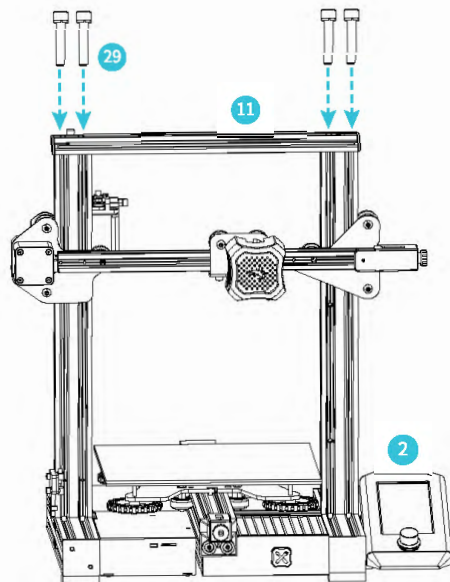
11 Gantry profile x 1
龙门架上型材



2 Display kit x 1
显示屏组件



29 Hexagon socket head spring
washer combination screw
M5X25 x 4 内六角圆柱头弹垫组
合螺钉 M5X25



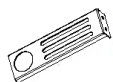
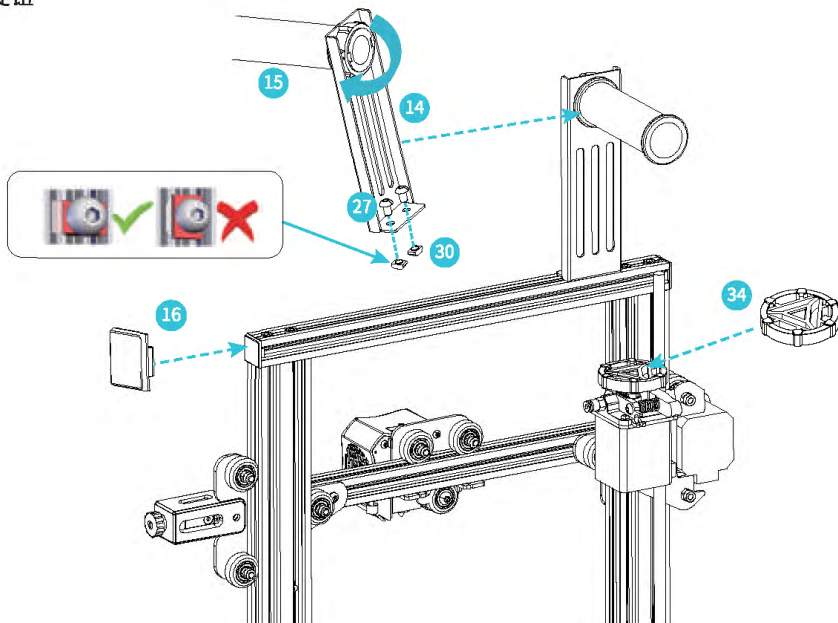
Step: Install the upper frame of the gantry structure with 4 pieces of M5X25 screw. Use an Allen wrench to lock the screen kit onto the machine with the left side four screws.

步骤: 用4颗内六角圆柱头弹垫组合螺钉M5X25将龙门架上型材固定在龙门架上端; 用内六角扳手将显示屏组件左侧4颗螺丝与机器锁紧即可。

8

Install material rack, gantry profile cover and indication knob

安装料架、型材盖、指示旋钮

14 Material rack x 1
料架15 Material pipe and nut x 1
料架筒及料架螺母16 2020 profile cover x 2
2020型材盖27 Hexagon socket flat round
head screw M5X8 x 2
内六角平圆头螺钉M5X830 M5T nut x 2
M5 T型螺母34 Indication knob x 1
指示旋钮

Steps: Put flat round head M5X8 and M5T screws into the material rack(as shown), place the spool holder on the rack and fix on the profile with screws(as shown); Put the indication knob on the motor shaft and then place the 2020 profile cover on both side.

步骤:将平圆头螺钉M5X8及M5T型螺母安装与料架上(如上图示),把料架筒装与料架上并拧上料架螺母,最后固定于型材上(如上图示);将指示旋钮直接套入电机轴,按上左右两边的2020型材盖。

9

Wire connection 设备接线

Connect X, E, Z-axis stepper motors according to the yellow label on the 6pin (4 wires) port 按照6pin (4根线) 端口上黄色标签提示连接X、E、Z轴步进电机

Connect X, Z-axis limit switches according to the yellow label on the 3pin (2wires) port 按照3pin (2根线) 端口上黄色标签提示连接X、Z轴限位开关

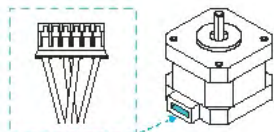
Plug in the power cord (as shown) and toggle the switch to turn on the power 插上电源线 (如示意图) 拨动开关打开电源



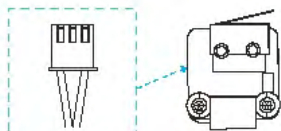
24 Power cable x 1
电源线



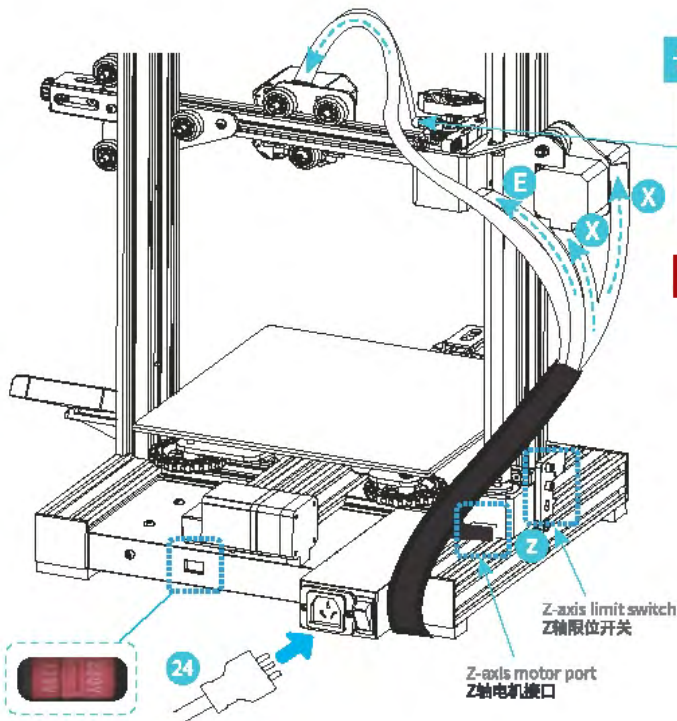
26 Blue wire clip x 1
蓝色线夹



X, E, Z-axis motor port
X、E、Z轴电机接口



X, Z-axis limit switch
X、Z轴限位开关



Insert the Teflon tube into the pneumatic connector (also insert the blue wire clamp)
将铁氟龙管插入气动接头 (同时插入蓝色线夹)



Caution

- ① Select the correct input voltage to match your local mains (115/230V)
- ② Damage can occur if voltage is set incorrectly.
- ③ Connect the power cord and turn the power switch to 1 to turn it on.
④ 选择正确的输入电压以匹配您的本地电源。(115/230V)
- ⑤ 如果电压设置不正确, 可能会造成损坏。
- ⑥ 连接电源线并将电源开关拨至1即可开机。

Do not connect or disconnect the cables when the machine is powered on.
当机器通电时, 请勿连接或断开连接线。

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Preheat
预热

Method 1



方法1



Note: The UI information is only for reference, the actual UI may be different.
 注意：界面仅供参考，实际以UI为准。

Preheat

预热

Method 2



方法2



Note: The print preheating standard is adjusted at the factory, PLA preheating standard: nozzle temperature 200 °, hot bed temperature 60 °, ABS preheating standard: nozzle temperature 240 °, hot bed temperature 70 °.

If you need to adjust it due to printing materials or other reasons, you can adjust the parameters on the interface home page control → temperature → PLA / ABS preheat setting.

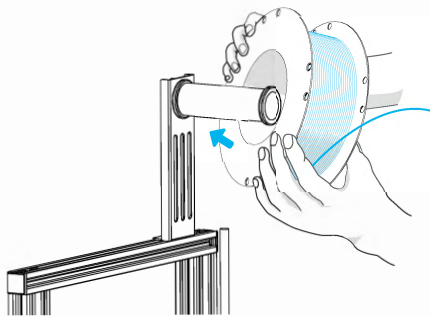
注意：打印预热参数标准出厂时已调整好，PLA预热标准：喷嘴温度200°，热床温度60°，ABS预热标准：喷嘴温度240°，热床温度70°。

若因打印材料或其他原因需要调整，可以在界面首页控制→温度→PLA/ABS预热设置进行参数调整。

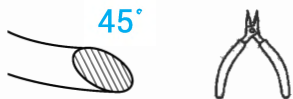
11

Load the filament

装料

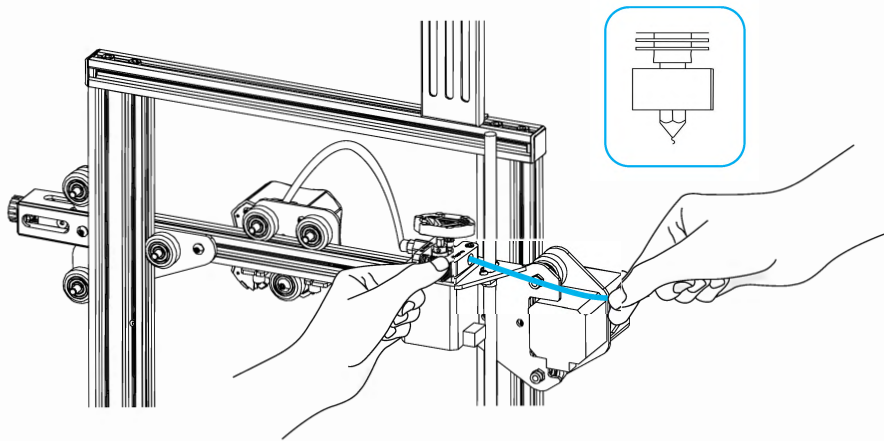


1. When waiting for the temperature to rise, please hang the filaments on the material rack.
当您在等待温度上升时,把耗材挂在料架上。



For better printing, the end of filament is as shown in the figure.

为了顺利完成打印,耗材的末端位置应,如图所示。



2. Press the extrusion spring and insert the filament until the nozzle along the extrusion. When the temperature is up to the target temperature, the filament will come out of the nozzle, nozzle, and complete loading the filament.

按住挤出弹簧,将耗材沿着挤出机孔插入直至喷嘴位置。当温度达到设定目标值时,可以看到喷嘴处有耗材流出,装载完成。



Replace the filament:

- 1.If no filament in the nozzle, cut the filament at the extruder, put the new filament into the tube, and until the filament arrives on the feeding tube.
- 2.If filament in the nozzle, heat up the nozzle to 185°+, draw out the filament, and then replace the filament according to step 1.
- 3.If replace the filament during the printing process,adjust the printing speed to 10%, and then replace the filament according to step 2.

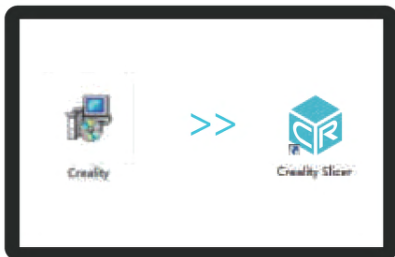
更换耗材:

- 1、设备刚开始打印,在靠近挤出机处将耗材剪断,将新耗材缓缓送入,直到耗材被送入导管为止。
- 2、设备已打印且冷却了,需要将喷嘴加热到185°+,再将耗材抽出,再参考步骤1更换耗材。
- 3、打印过程中更换耗材,把打印速度设置调节为10%,参照步骤2更换耗材。

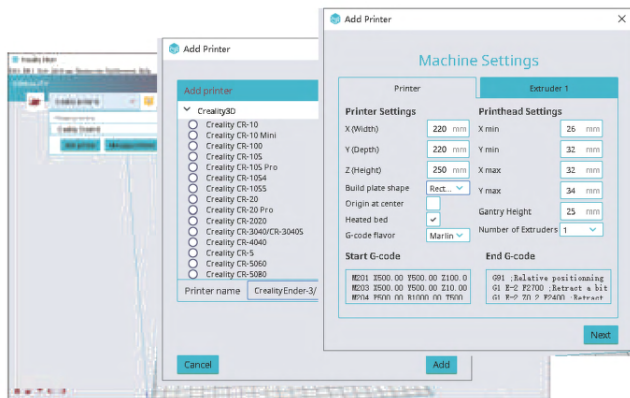
12

Start printing

首次打印



1. Double click to install the software. | 安装软件
2. Double click to open the software. | 打开软件



3. Select language→Next→Select your machine→Next→Finish.



3.依次选择语言→Next→选择对应机型→Next→Finish,完成设置。



4. Open Creality 3D slicer → Load (Read file) → Select file.
打开创想三维切片软件→Load (读取文件) →选择文件。

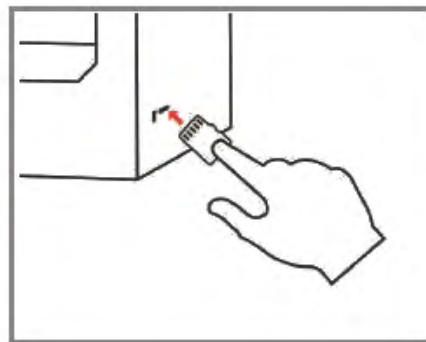
Start printing 首次打印

Please level the platform according to the video in storage card. Bad leveling will cause clogging or break of nozzle.

打印前调平平台请参考存储卡开箱操作视频, 不调平容易造成喷嘴损伤、堵头。



5. Generate G-code, and save the gcode file to TF card.
生成 G 代码 → 保存到 TF 卡



6. Insert the TF card → press the knob → select the menu
→ the file to be printed.
插入 TF 卡 → 按下旋钮 → 选择菜单 → 要打印的文件



File names must be Latin letters or numbers, not Chinese characters or other special symbols.
文件名需为拉丁字母或数字, 不能为汉字或其他特殊符号。

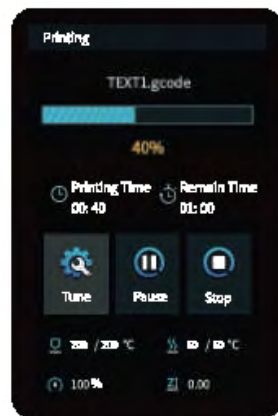
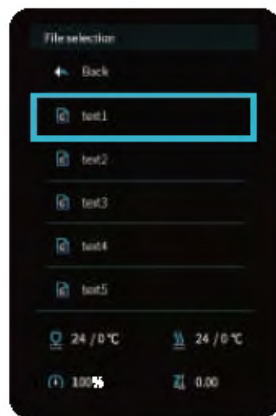


Notes: For details on the software instructions, please refer to the slicing software manual in the memory card!
温馨提示: 软件使用说明详情, 请见存储卡内切片软件使用手册!

Start printing

首次打印

Print

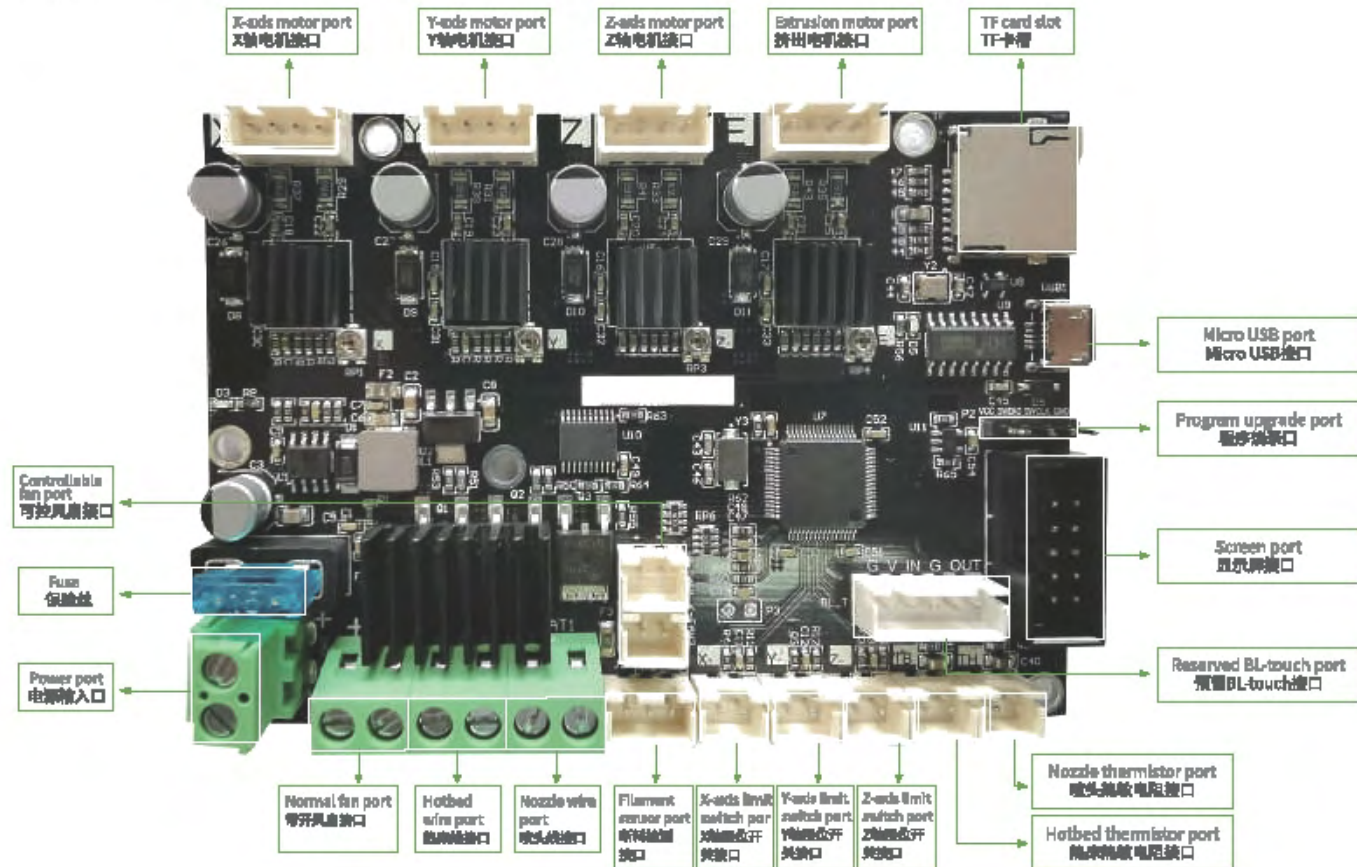


打印

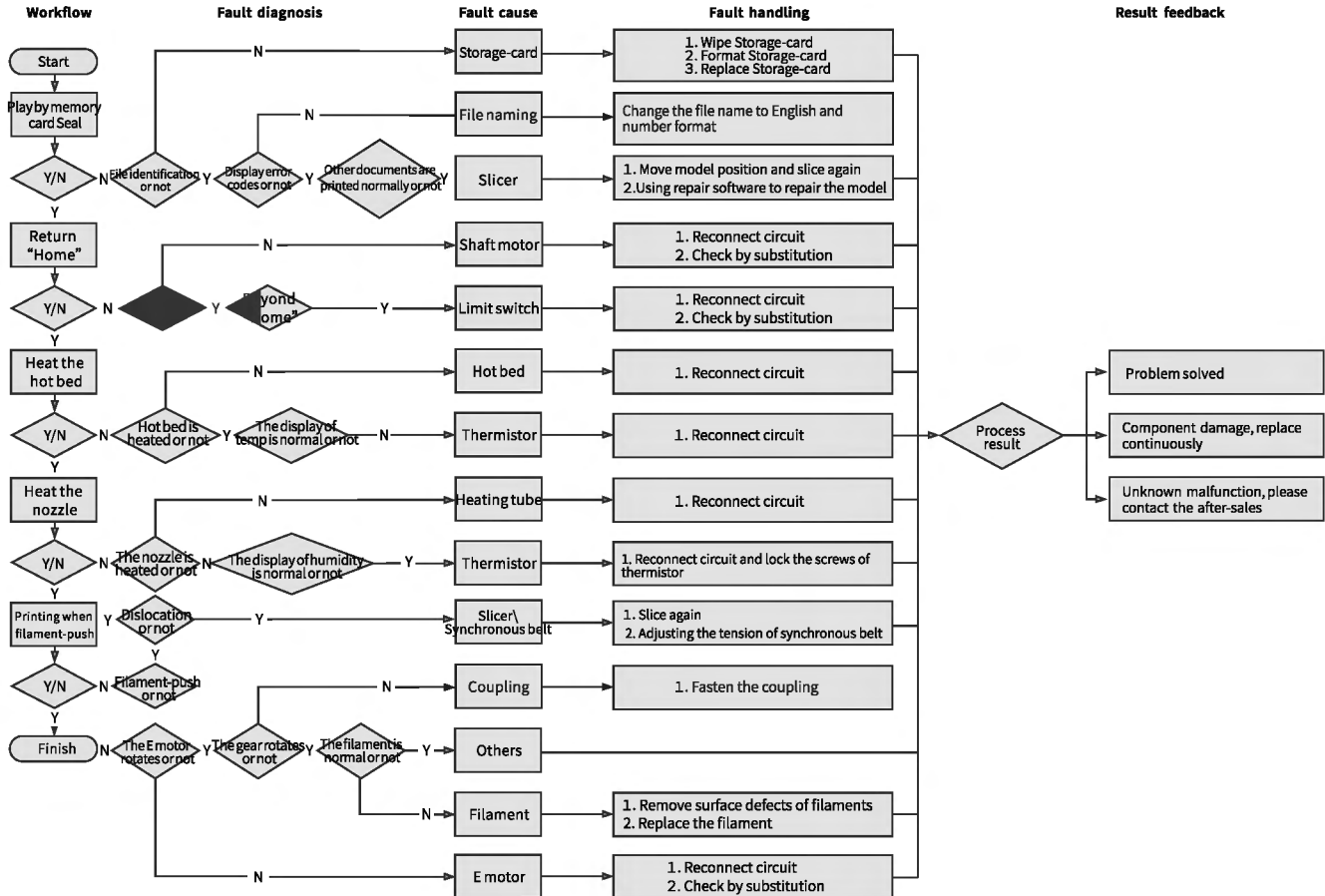


Wiring connection

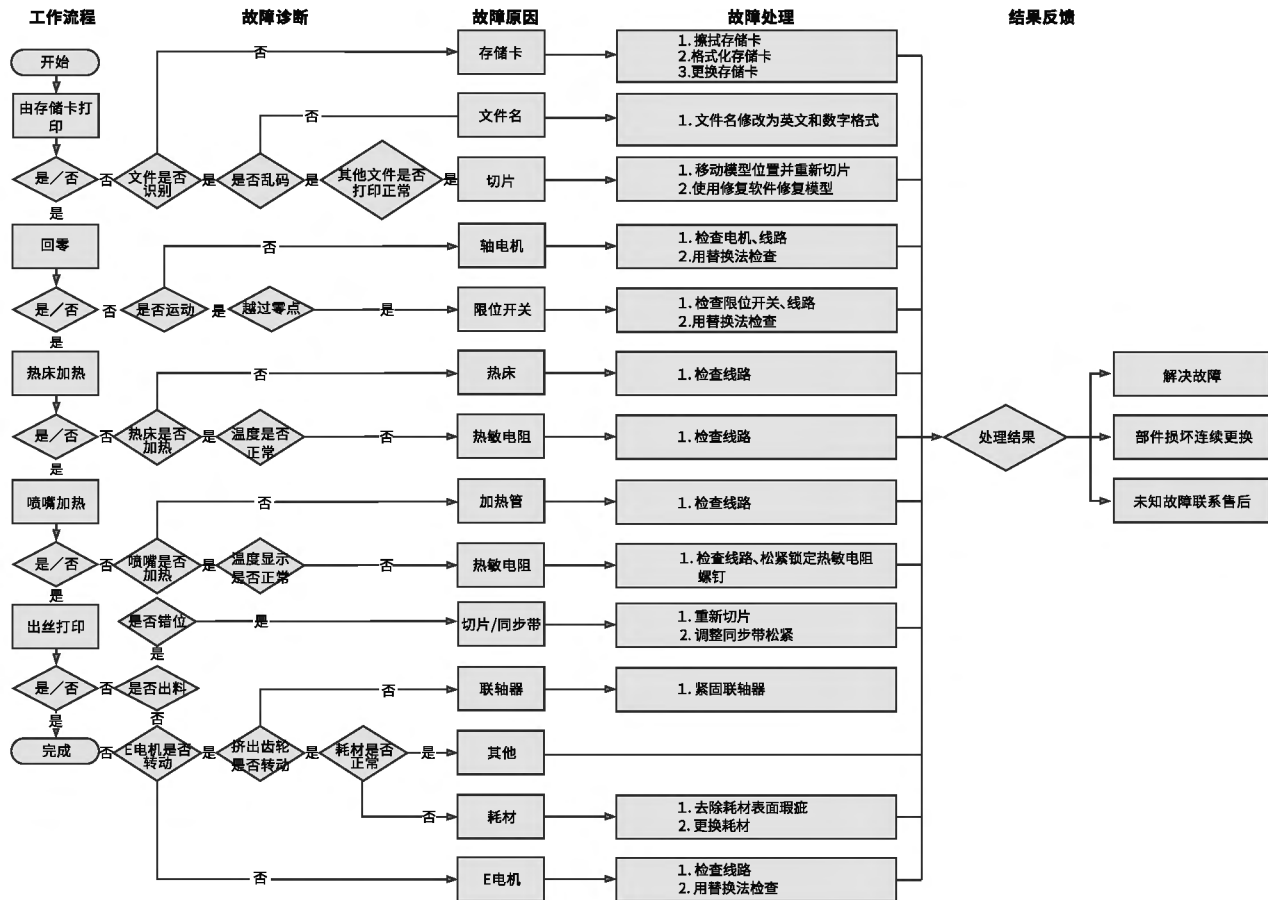
电路接线



Troubleshooting



故障检修



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