



3D Printer User Manual

3D打印机用户使用手册

V1.0

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 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 can also learn how to use the printer in the following ways:

View the accompanied instructions and videos in the storage card.

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

尊敬的用户：

感谢您选择创想三维的产品。为了您使用方便，请您在使用之前仔细阅读本说明书，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、邮箱与我们进行联系。

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：您可以在存储卡内找到相关使用说明及视频。

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

Firmware Upgrade

Please login the official website <https://www.creality.com/download>, switch the language and select the relevant printer and model and download the required firmware, you can use it after the installation is finished.

固件升级

请您登录官网<https://www.cxsw3d.com>，点击首页→服务支持→下载所需固件，安装完成后即可使用。

NOTES 使用须知

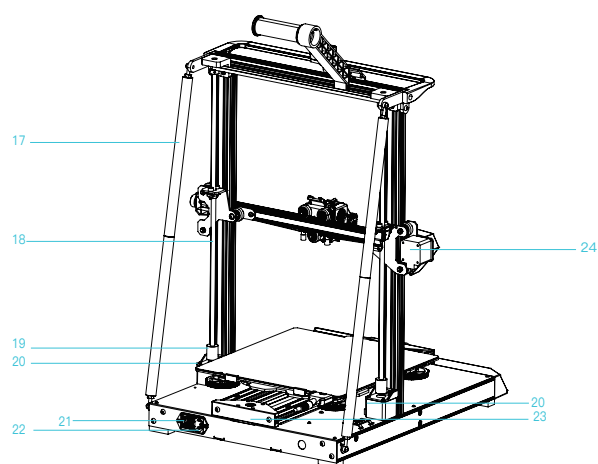
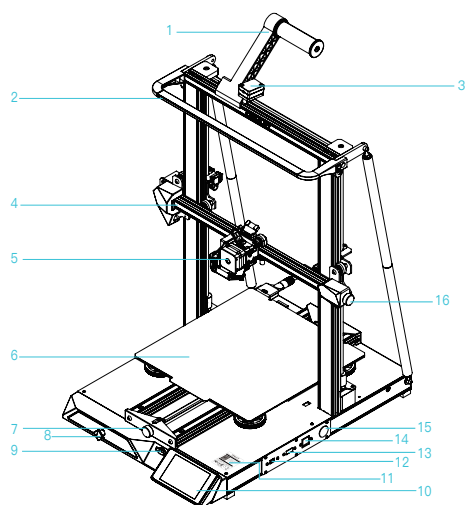
- 1 Do not use the printer any way other than described here in order to avoid personal injury or property damage.
- 2 Do not place the printer near any heat source or flammable or explosive objects. We suggest placing it in a well-ventilated, low-dust environment.
- 3 Do not expose the printer to violent 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、printing surface or motor 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.
- 10 Children under 10 years old should not use the printer without supervision.
- 11 This machine is equipped with a security protection mechanism. Do not manually move the nozzle or printing platform mechanism manually while booting up, otherwise the device will automatically power off for safety.
- 12 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.

- 1 请勿尝试任何使用说明中没有描述的方法来使用本机, 避免造成意外的人身伤害和财产损失;
- 2 请勿将本机放置在易燃易爆物中或高热源附近, 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、热床以及电机, 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 在打印完毕后及时利用喷头的余温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或打印平台机构, 否则设备会自动断电机保护;
- 12 使用者应遵守设备所在地(使用地)相应国家、地区法律法规, 恪守职业道德, 注意安全义务, 严禁将我司的产品或设备使用在任何非法用途上。如有违反者所应承担的相关法律责任我司概不负责。

Contents目录

Introduction 设备简介	01-01
Parameters 设备参数	02-02
Parts List 零部件清单	03-03
Assemble the 3D Printer 组装3D打印机	04-09
Use the 3D Printer 使用3D打印机	10-16
Pairing via Bluetooth 蓝牙配网	17-18
Creality Cloud print 创想云打印	19-20
Off-line print 脱机打印	21-22
Start print 开始打印	23-23
Network reset 网络复位	24-24
Printer maintenance 打印机维护	25-25
Wiring Connection 电路接线	26-26
Troubleshooting 故障检修	27-28
After-Sales Service Card 售后服务卡	29-31

1. Introduction 设备简介



- 1 Feeding holder components
料架组件
- 2 LED Light LED灯
- 3 Filament Detector 断料检测
- 4 X Limit Switch X轴限位开关
- 5 Nozzle Kit 喷头组件
- 6 Printing Platform 打印平台
- 7 Y-axis belt adjusting knob
Y轴皮带调节旋钮

- 8 Tool Box 工具箱
- 9 Storage Card Slot 存储卡槽
- 10 Touch screen 触摸屏
- 11 WiFi QR code WiFi二维码
- 12 Connecting Interface 联机接口
- 13 Camera Interface 摄像头接口
- 14 Network Interface 网络接口
- 15 Power-on button 开机按钮
- 16 X-axis belt adjusting knob
X轴皮带调节旋钮

- 17 Pull rod 拉杆
- 18 Screw rod 丝杆
- 19 Coupling 联轴器
- 20 Z-axis motor Z轴电机
- 21 Power switch 电源开关
- 22 AC power supply 交流电源
- 23 Y-axis Motor Y轴电机组件
- 24 X-axis Motor X轴电机组件

2. Equipment parameters 设备参数



Basic Parameters 基本参数	
Model 型号	CR-10 Smart Pro
Printing Size 成型尺寸	300*300*400mm
Molding Tech 成型技术	FDM
Nozzle Number 喷头数量	1
Slice Thickness 切片层厚	0.1mm-0.4mm
Nozzle Diameter 喷嘴直径	Standard 0.4mm 标配0.4mm
Precision 打印精度	±0.1mm
Filament 打印材料	1.75mm PLA/ABS/TPU/PETG/Wood
File Format 切片支持格式	STL/OBJ/AMF
File Transfer 打印方式	Wifi/Storage card Wifi/存储卡脱机打印或者联机打印
Slice Software 可兼容切片软件	Creality Slicer/Cura/Repetier-Host/Simplify3D
Power Supply 额定电压	Input 输入:AC100-240V 50/60Hz Output 输出:DC 24V
Total Power 额定功率	350W
Bed Temp 热床最高温度	≤100°C
Nozzle Temp 喷嘴最高温度	≤300°C
Resume Printing 断电续打	Yes 支持
Filament Detector 断料检测	Yes 支持
Dual Z-axis 双Z轴	Yes 支持
Auto Leveling 自动调平	Yes 支持
Language 语言	中文/ English/Deutsch/Español/Français/Italiano/Português/Русский/Turkish
Printing Speed 打印速度	80-100mm/s

3. Package Content 零件清单

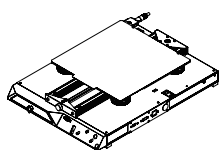


Tool list 工具包清单

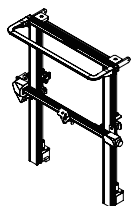


Tips: the above accessories are for reference only, please refer to the physical accessories! 注意: 以上配件仅供参考, 请以实物为准!

4. Install the Gantry Frame 安装龙门架



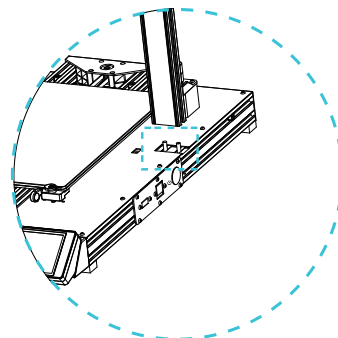
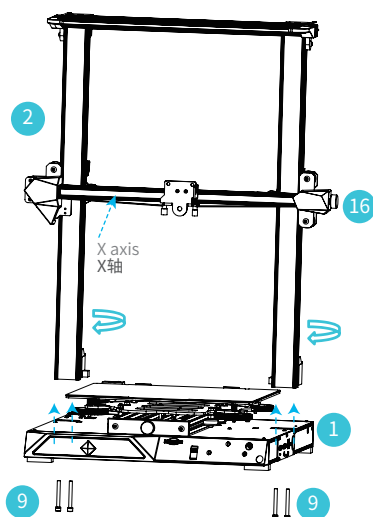
1 Base Frame | 底座 x 1



2 Gantry Frame | 龙门架 x 1



9 M5x45 Sems Screw x4
M5x45组合螺丝



Two Z-axis profiles, installed on the inner step of the Y-axis bottom profile.
两根Z轴型材，靠Y轴底部型材内侧台阶安装。

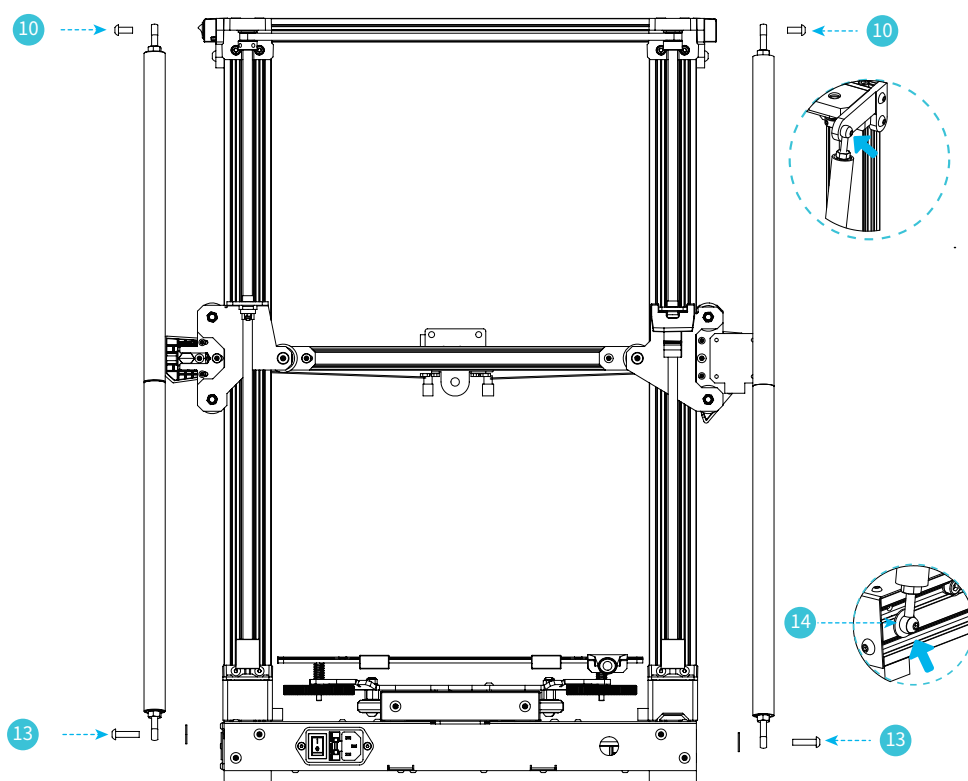


Twist the coupling to raise the X axis to the position shown in Figure 16.
拧动联轴器使X轴上升到如图16所示位置。

5. Pull Rod Installation 拉杆安装

Adjust the proper length of assembled pull rod and install in the position shown in the figure
拉杆组装调节到合适的长度，安装在图示位置

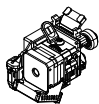
-  10 M5×12 Hexagon flat round head screw x2
M5x12 内六角平圆头螺丝
-  13 M5x20 Hexagon flat round head screws x2
M5x20 内六角平圆头螺丝
-  14 M5 Large Flat gasket ×2
M5加大平垫



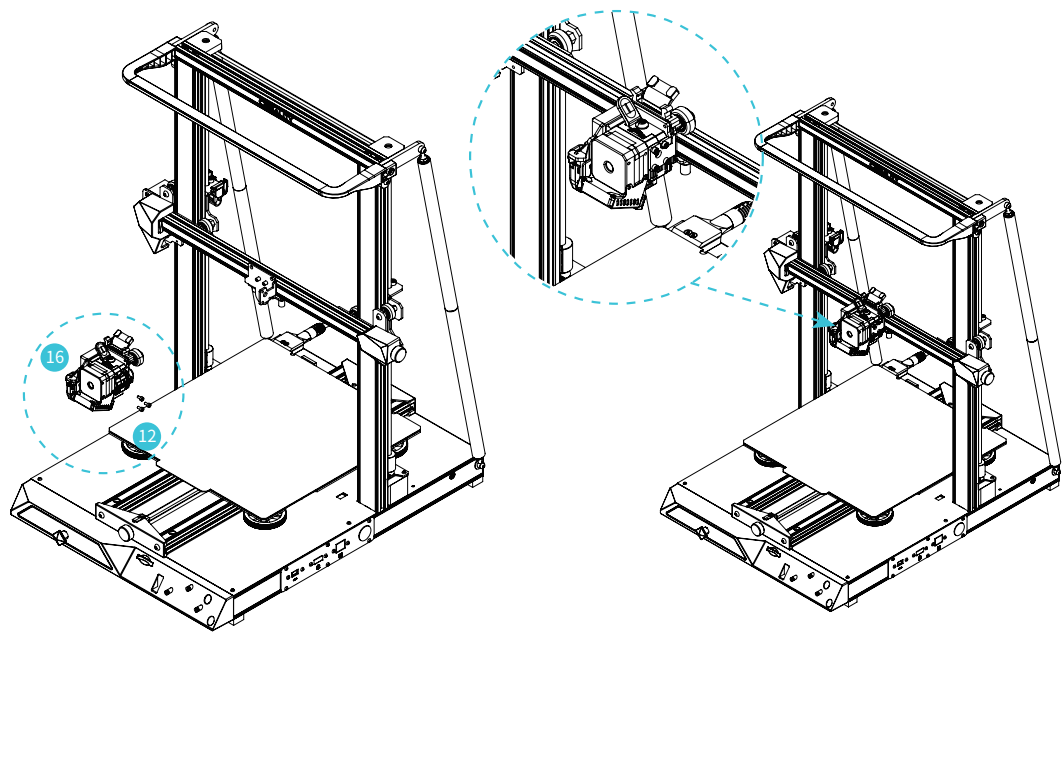
6. Nozzle Kit Installation 喷头组件安装



- 12 M3x6 hexagon round head screw X3
M3x6 内六角圆柱头螺丝



- 16 Nozzle Kit | 喷头组件 x 1

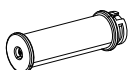


7. Install the Rack 安装料架

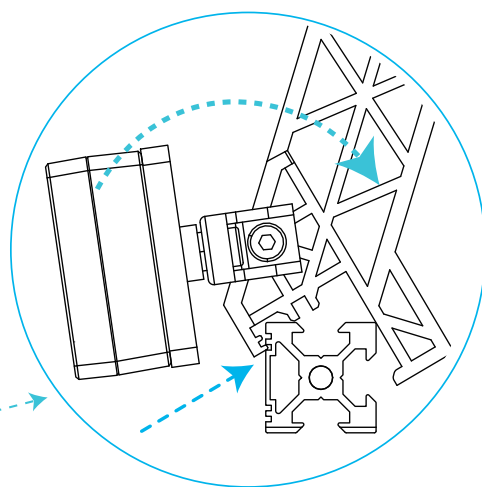
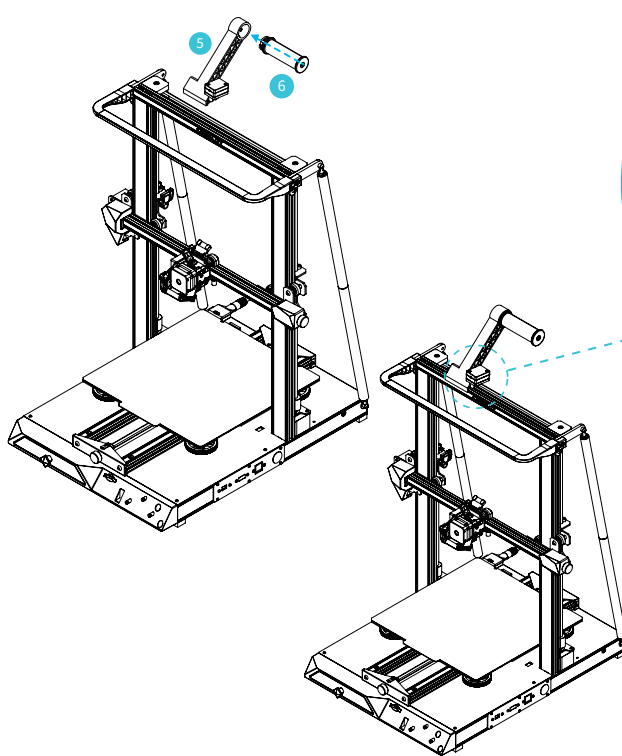
When you wait for the temperature to rise, hang the filament over the Filament Holder.
安装图示将料架装配到机器上方



5 Rack | 料架 x 1



6 Spool | 料管 x 1

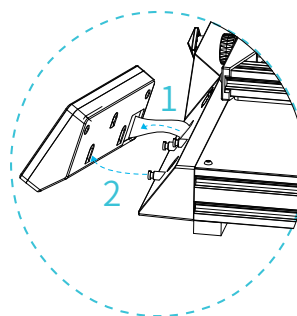
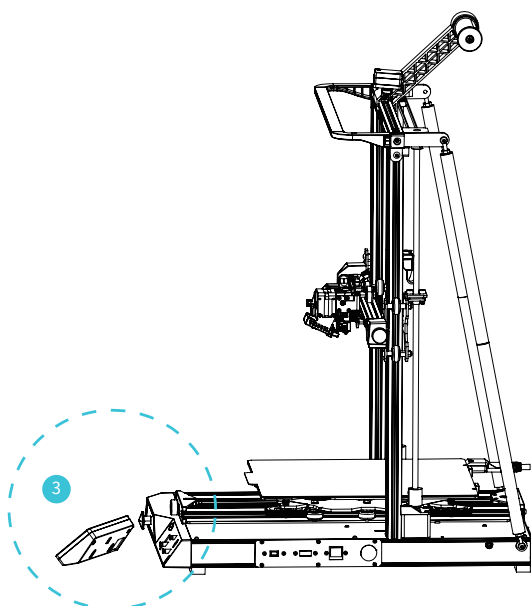


8. Install the touch screen 安装触摸屏



3 Touch screen | 触摸屏 x 1

1. Connect the FFC on the base with the touch screen.
1、把底座的排线与触摸屏连接起来
2. Fix the three screen locks on the touch screen to the studs of the base and press them into place.
2、将触摸屏上的三个屏幕锁固定在底座的螺丝柱上，并按压到位。



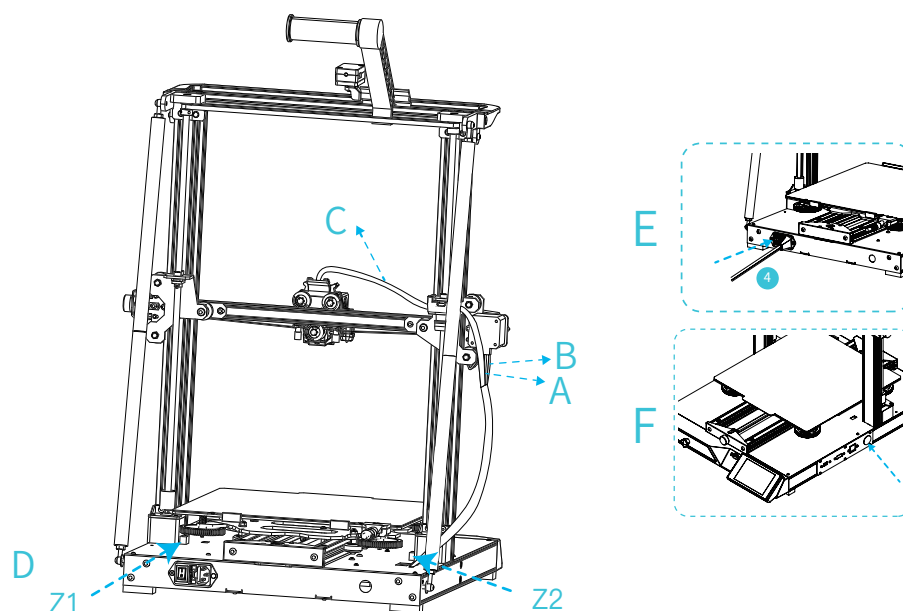
Caution

- 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。

9. Cable Connection 设备接线



4 Power Cord | 电源线 x 1



- A、Connect X-axis motor to the 4pin port as shown in the figure 按图示4pin端口连接X轴电机
- B、Connect X Limit Switch 连接X轴限位
- C、Connect nozzle kit 连接喷头组件
- D、Connect Z-axis motor cable 连接Z轴电机线
- E、Connect it to the power cord and turn on the power 连接电源线，打开电源
- F、Long press the power button and wait the display screen to start 长按开机按钮，等待显示屏启动



Caution

- 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。

10. Bed Leveling 调平平台

1. Select "Level" to automatically level
选择首页调平，即可自动调平
2. After the leveling is completed, adjust the Z-axis compensation value according to the adhesion of the printing consumables and the glass
调平完成后，依据打印耗材与玻璃平台的粘附情况，适当调节Z轴补偿值

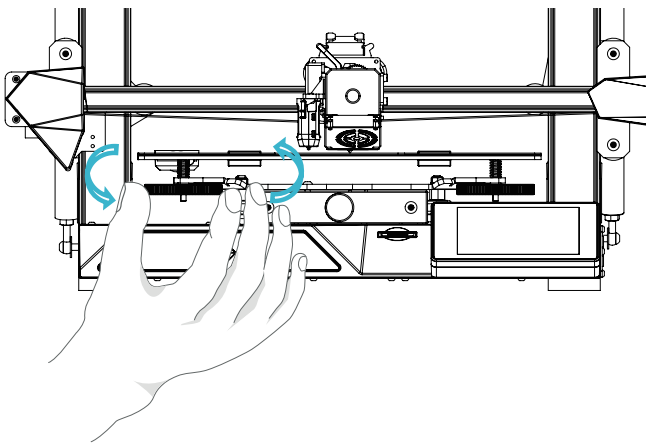


During the leveling process, please do not touch the nozzle cable.
调平过程中，请不要触碰喷头排线。

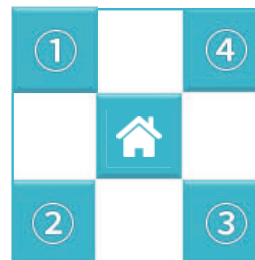
10. Bed Leveling 调平平台

Move the nozzle the front/left leveling screw and adjust the platform height by turning the knob underneath (The thickness of a piece of A4 paper).

移动喷嘴至调平螺母上方附近。拧动螺母，调节打印平台，使其与喷嘴处于刚好贴合状态，间距约为0.1mm（一张A4纸的厚度）。按顺序调平四个角。



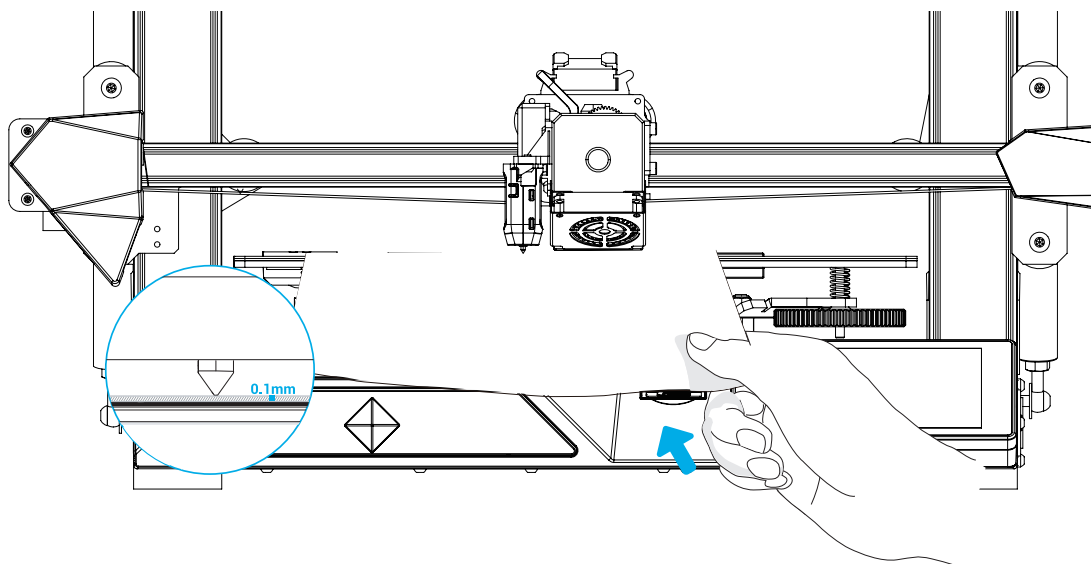
		 The nozzle is too far away from the platform, so the consumables can not adhere to the platform. 喷嘴离平台太远，耗材无法粘附在平台上。
		 Filament are extruded evenly, just sticking on the platform. 耗材挤出均匀，刚好贴在平台上。
		 The nozzle is too close to the platform, and the filament are not extruded enough, even scraping the platform. 喷嘴离平台太近，耗材挤出不足，甚至刮坏平台。



10. Bed Leveling 调平平台

Use a piece of A4 paper (standard printer paper) to assist with the adjustment, making sure that the nozzle lightly scratches the paper. Complete the adjustment of the screw on all 4 corners. Repeat above steps 1-2 times if necessary. Keep adjusting until there is slight resistance on the A4 paper from the nozzle.

我们可以利用一张A4纸辅助调平,使喷嘴刚好能在A4纸上产生划痕。依次完成四个边角上调平螺母的调节。不断调整直到在拉动A4纸时能感受到来自喷嘴的轻微阻力。



11. Preheating Method 预热方法

To avoid extended pre-heating time, you can warm up the machine before selecting the model or setting some parameters.
为了避免打印预热时间较长，可以先对机器进行预热，再选择模型或者设置其他参数，节省预热时间。

Method 1



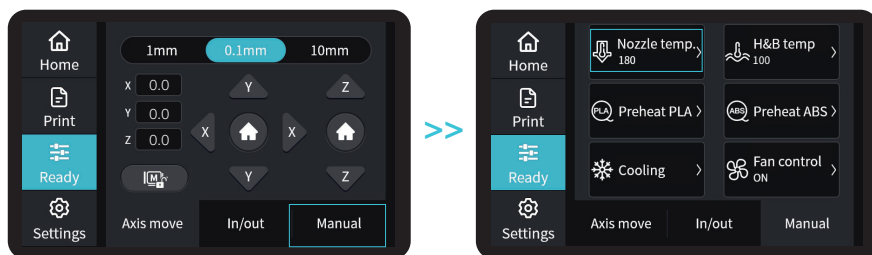
方法1



Notes: The interface of the manual of instruction is only for reference, and the actual interface shall be subject to the display of the machine.
注意：本说明书操作界面仅供参考，实际操作界面请以机器实际显示为准。

11. Preheating Method 预热方法

Method 2



方法2



Notes:

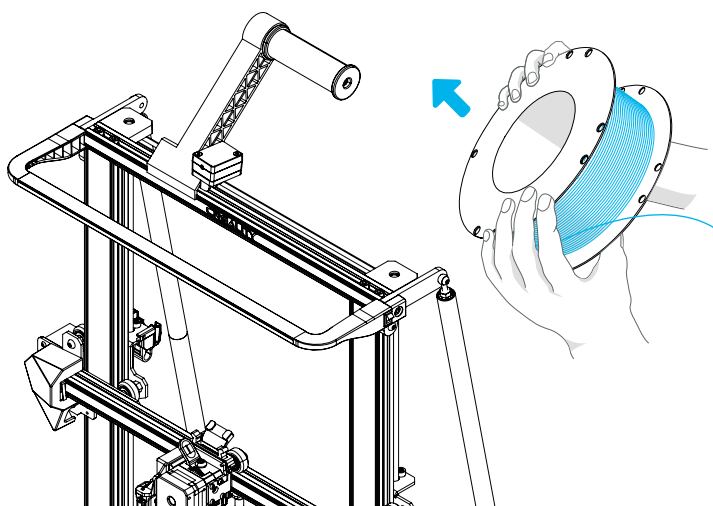
- 1、The print preheating standard is adjusted at the factory, PLA preheating standard: nozzle temperature 200 °, hot bed temperature 60 °, ABS preheating standard: nozzle temperature 240 °, hot bed temperature 70 °. If you need to adjust it due to printing materials or other reasons, you can adjust the parameters on the interface home page control → temperature → PLA / ABS preheat setting.
- 2、In case of replacing used filaments, you need to heat the nozzle and draw out remaining filaments when it is melted. Or, some filaments may remain in the nozzles, causing blockages and even damage to the extruder.

注意:

- 1、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。
- 2、当更换耗材时，需要对喷头加热，待耗材融化后可以顺利抽出喷头中残留耗材。如果不加热喷头直接拔出耗材，可能残留部分耗材在喷头内，造成堵头甚至挤出机损坏。

12. Load Filament 装料

When you wait for the temperature to rise, hang the filament over the Filament Holder.
当您等待温度上升时，把耗材挂在料架上。



For loading filament smoothly, the end of the filament should be placed as shown above.

为了顺利完成装料，耗材的末端位置应如图所示。



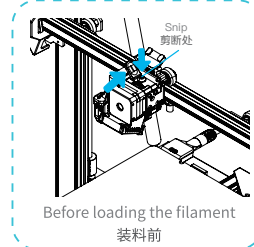
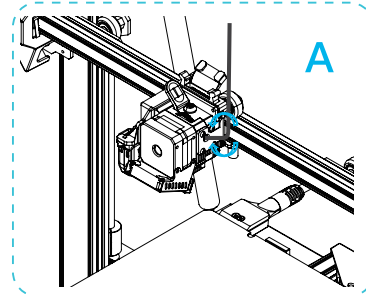
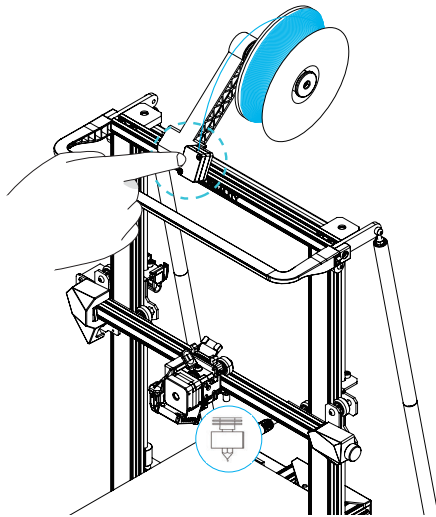
12. Load Filament 装料

When it reaches the target temperature, insert the filament into the small hole of the Extruder until it reaches the nozzle through the filament cutting detection module. If the filament flows out from the nozzle, it presents that the filament is properly loaded.

当前温度达到目标温度时，将耗材通过断料检测模块，插入挤出机小孔直至喷嘴位置，看到喷嘴处有耗材流出即表示耗材已经装载完成。

The method of extrusion spring adjustment: turn right to loosen turn left to tighten (as shown in Fig. A)

调节挤出弹簧松紧度方法：箭头往右调松 往左调紧（如图A所示）



Tips: 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. Withdrawing the filament quickly and feeding the new filament after nozzle preheated and filament pushed a little forward.

注意：如何更换耗材？

方法一、在靠近挤出机处将耗材剪断，将新耗材缓缓送入，直到耗材被送入导料管为止。

方法二、预热喷嘴后，将耗材往前推进一下后，迅速抽出耗材，将新耗材送入。

13. Pairing via Bluetooth 蓝牙配网

