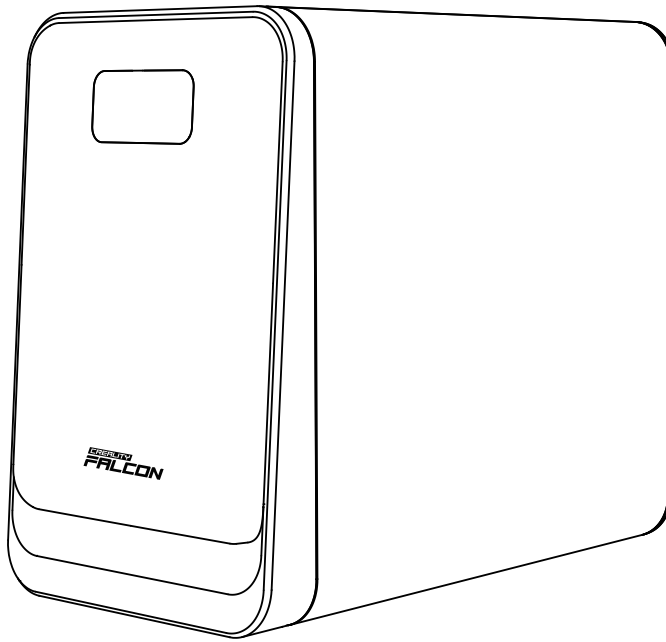
CREALITY FALCON



烟雾净化器
SMOKE PURIFIER

User Manual

V1.1

尊敬的用户:

感谢您选择Creality Falcon的产品。在这个旅途中，我们期待您创造出无限可能的作品。可以在Facebook,Tiktok,Instagram等社交媒体搜索Falcon Laser进行关注，在其中可分享您的作品并从他人那里获得灵感。

Creality Falcon团队时刻准备为您提供优质的服务。如在使用过程中您遇到问题，请参照产品说明书中所提供的电话、邮箱与我们进行联系。为了能够更好地体验我们的产品，您可以从维基百科(wiki.creality.com/zh/laser-engraver)中获取相关使用说明及视频。或登录Creality Falcon官方商城(www.crealityfalcon.com) 寻找相关软硬件、联系方式、设备操作、设备保养等信息。

Dear User,

Thank you for choosing Creality Falcon's product. On this journey, we look forward to you creating works of unlimited possibilities. You can follow Falcon Laser on social media platforms such as Facebook, TikTok, and Instagram, where you can share your works and gain inspiration from others.

The Creality Falcon team is always ready to provide you with quality service. If you encounter any problems during use, please contact us using the phone number and email provided in the product manual. To better experience our products, you can obtain relevant instructions and videos from Wikipedia (wiki.creality.com/en/laser-engraver). Or visit the official Creality Falcon store (www.crealityfalcon.com) to find information on related hardware and software, contact methods, equipment operation, equipment maintenance, etc.

售后服务 / After-sales Service

Email: support@crealityfalcon.com

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1.产品概览 /Product Overview

1.本产品适用于产生烟雾、异味、粉尘、有毒有害气体的应用场景，如激光雕刻、3D打印等。
2.凭借多重过滤设计和强劲吸力，可有效吸附和净化激光雕刻时产生的各种颗粒物和气态污染物，净化后的空气可直接在室内排放。
3.您可以通过Google Play或App store应用商店搜索并下载‘FalconDesignSpace’ App为净化器提供联网功能并远程监控设备。
4.本产品可通过WiFi或Type-C数据线与指定的Falcon激光雕刻机绑定（如Falcon A1 Pro），选择auto模式后，可同步雕刻机的加工任务，自动执行开启和延迟关闭净化。

1. This product is suitable for application scenarios that generate smoke, odors, dust, and toxic or harmful gases, such as laser engraving and 3D printing.
2. With its multi-stage filtration design and powerful suction, it effectively captures and purifies various particulate matter and gaseous pollutants produced during laser engraving. The purified air can be directly discharged indoors.
3. You can search and download the ‘FalconDesign Space’ App on Google Play or the App Store to provide networking capabilities and remote monitoring for the purifier.
4. This product can be paired with the designated Falcon laser engraver (like A1 Pro) via WiFi or a Type-C data cable. After selecting the auto mode, it can synchronize the engraver's processing tasks, automatically execute the start and delay shutdown of the purifier.

产品参数 / Specifications

产品名称 Product Name	烟雾净化器/Smoke Purifier
产品型号 Product Model	Falcon AP1
产品尺寸 Product Dimensions	460*270*430mm
净重 Net Weight	10kg
包装尺寸 Package Dimensions	605*344*532mm
毛重 Gross Weight	15kg
进风接口尺寸 Air Inlet Duct Size	ϕ65mm
输入电压 Input Voltage	110-230V~50-60Hz
输出电压 Output Voltage	DC24V
最大功率 Maximum Power	150W
噪音 Operating Noise	≤62dB
最大系统风量 Maximum Airflow Rate	250m^3/h
工作温度 Operating Temperature	-20~50℃
安规认证 Safety Certifications	CE、ROHS、FCC
滤芯配置 Filter Configuration	滤芯1：高效HEPA夹碳布复合滤芯 滤芯2：改性活性炭滤芯 Filter 1：High-efficiency HEPA composite filter Filter 2：Activated carbon filter

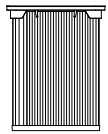
2.装箱清单/Packing List

主机*1台、复合滤芯*1套、手扭卡箍*2、电源线*1根、φ65mm连接管*1件、type-C数据线（2m）*1根、排气管（1.5m）*1根、说明书*1本。

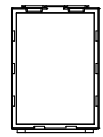
Main unit *1, Composite filter *1 set, Hand-Tightened Hose Clamps *2, Power cord *1, φ65mm Duct connector *1, Type-C data cable (2m) *1, Exhaust pipe (1.5m) *1, User manual *1.



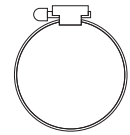
主机
Main Unit



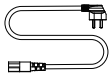
滤芯1（在机器内部）
Filter 1（Inside the machine）



滤芯2（在机器内部）
Filter 2（Inside the machine）



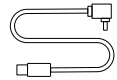
手扭卡箍*2
Hand-Tightened Hose Clamps ×2



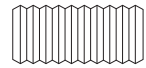
电源线
Power Cord



连接管
Duct Connector



数据线
Type-C Data Cable



排气管
Exhaust Pipe



说明书
User Manual

*打开包装箱取出机器后，请仔细检查以上附件是否缺少或损坏，若发现有任何一项缺少或损坏，请与销售客服联系。

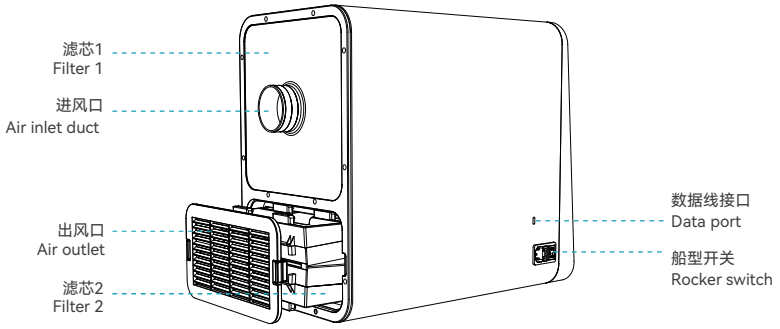
*After removing the machine from the packaging box, please carefully check whether any of the above accessories are missing or damaged. If you find any missing or damaged items, please contact our sales customer service.

3.注意事项/Precautions

1. 机器的电源输入应在规定的额定电压范围内使用（以机身上的功率标识为准），严禁电压过高或过低时使用。发现使用环境电压不稳定时请关闭机器并拔掉设备的电源插头，待电压稳定后再使用。
2. 使用机器时，进风口吸入的气体、粉尘的环境温度范围为：-20 至50 ºC，禁止高于或低于此温度范围使用。
3. 使用机器时，进风口吸入的气体、粉尘的湿度不应高于80%，湿度过高会使滤芯很快失效及机器内部电路损坏，禁止湿度高于80%的环境使用。
4. 严禁在没有放置过滤芯的状态下使用机器，直接吸进机器的油烟或粉尘颗粒物会造成风机及控制系统的损坏。以上状态下使用机器造成的故障需自费维修，会造成您更大的损失。
5. 严禁滤芯严重堵塞后仍继续使用机器，会大大缩短机器的使用寿命，甚至会造成机器损坏。应定期清理及维护机器，定期更换滤芯，以保证机器在良好的状态下工作。
6. 当您的机器滤芯堵塞吸力变小或除异味过滤芯失效不能去除异味时，请您更换原厂配置的滤芯。
7. 严禁私自打开机器内部进行维修。

1.The machine's power input must be used within the specified rated voltage range (refer to the power label on the machine). Do not operate the machine if the voltage is too high or too low. If unstable voltage is detected, turn off the machine, unplug the power cord, and only resume use once the voltage stabilizes.
2.During operation, the ambient temperature of gases and dust drawn into the air intake must be within the range of -20℃ to 50℃. Do not use the machine above or below this temperature range.
3.During operation, the humidity of gases and dust drawn into the air intake must not exceed 80%. Excessive humidity will quickly degrade the filter and damage the internal circuitry. Do not use the machine in environments with humidity above 80%.
4.Never operate the machine without the filter installed. Directly inhaling oil fumes or dust particles can damage the fan and control system. Failures caused by such misuse will require paid repairs and may result in greater losses.
5.Do not continue using the machine if the filter is severely clogged, as this will significantly shorten its lifespan or even cause permanent damage. Regularly clean and maintain the machine, and replace the filter as needed to ensure optimal performance.
6.If suction power decreases due to a clogged filter or if the odor-removing filter fails to eliminate smells, replace it with an original manufacturer-approved filter.
7.Unauthorized disassembly or internal repairs of the machine are strictly prohibited.

4.产品说明/Product Description



滤芯1：高效HEPA夹碳布复合滤芯，内置初效滤层
Filter 1: High-efficiency HEPA composite filter, Built-in pre-filter layer

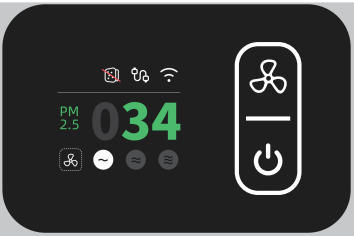
滤芯2：改性活性炭滤芯
Filter 2: Activated carbon filter

进风口：通过软管连接至雕刻机
Air inlet duct : Connect to the engraving machine via exhaust pipe

出风口：排出洁净空气，请勿遮挡(请留意箭头方向，朝下安装)
Air outlet: Releases purified air. Do not block (Note the arrow direction and install facing downward)

数据线接口：连接至激光雕刻机后，可选择auto模式
Data port: When connected to the laser engraver, Auto mode becomes available

船型开关：电源开关
Rocker switch: Power switch



滤芯失效：请您及时更换滤芯，以获得有效的净化效果。
Filter failure: Please replace the filter promptly to achieve effective purification.

数据线模式：净化器与激光雕刻机通过数据线连接中，可选择'auto'模式，与雕刻机加工任务同步启停。
Data Cable Mode: The purifier is connected to the laser engraver via a data cable. You can select the 'auto' mode to synchronize the start and stop of the purifier with the engraving tasks.

闪烁时，净化器进入配网状态；
Flashing: The purifier enters the network configuration state.
常亮，净化器正常联网。
Steady: The purifier is connected to the network normally.

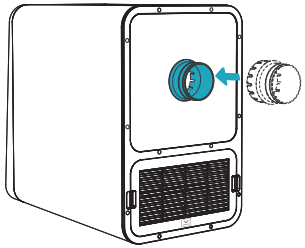
WiFi异常图标：未联网或网络错误，请重新联网。
WiFi Error Icon: Not connected or network error, please reconnect.

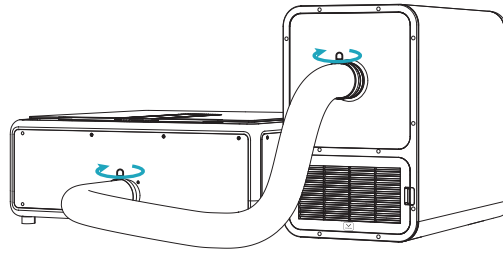
PM2.5浓度值：净化器周边环境的PM2.5浓度值，显示范围为1~999ug/m³。
PM2.5 Concentration Value: The PM2.5 concentration value of the environment around the purifier, with a display range of 1 - 999ug/m³.

风速按键/Fan Button
1. 风速与模式切换：可在1档-2档-3档-auto模式之间切换，auto模式仅在连接激光雕刻机时可选。
1. Fan Speed and Mode Switch: Can be switched among Speed 1 - Speed 2 -Speed 3 - Auto mode. The auto mode is only selectable when connected to the laser engraver.
2. 滤芯重置功能：长按5秒可重置滤芯寿命。
2. Filter Reset Function: While the purifier is working, long press for 5 seconds to reset the filter life.

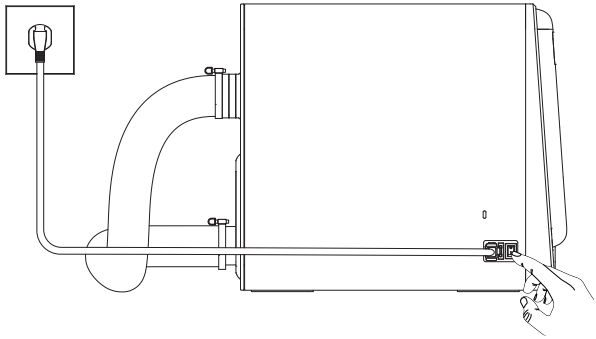
开关按键/Power Button
1. 开关功能：可启动/停止运行
1. Power On/Off Function: Start/stop the operation.
2.配网功能：长按5秒，可触发设备配网功能
2.Network Configuration Function: Long press for 5 seconds to initiate device network setup.

5.安装指引/User Guide





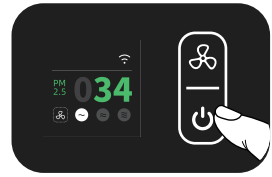
5.1 拆除包装后，将机器放置在平稳的桌面或地面上，装上转接管，将排气管一头连接至净化器，另一头连接至雕刻机并拧紧卡箍；
5.1 After unboxing, place the unit on a stable surface, install the duct connector, then connect the exhaust pipe between the purifier and engraver, tighten the clamps to secure both ends..



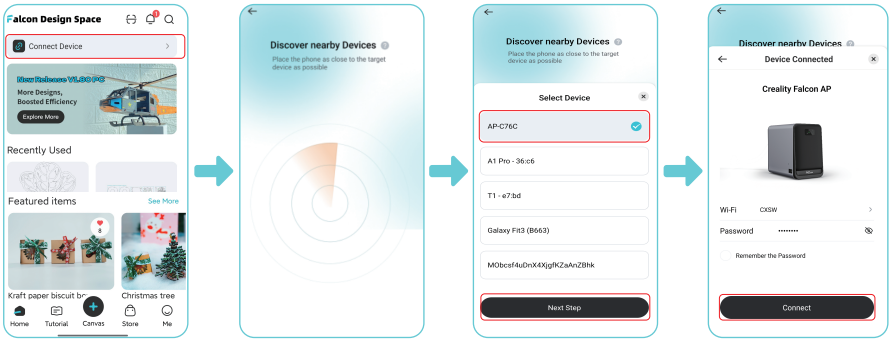
5.2 连接电源，拨动船型开关，通电后，船型开关亮起；
5.2 Connect to power, flip the rocker switch to ON position, illuminated switch confirms power activation.

5.3 app连接与控制/App Connection & Control

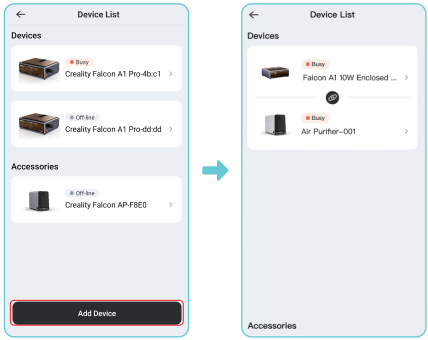
5.3.1 在Google Play或App Store应用商店搜索并下载‘FalconDesignSpace’ App手机应用程序；
5.3.1 Search and download the 'FalconDesignSpace' App on Google Play or the App Store.



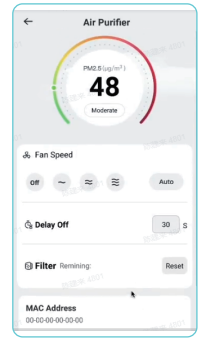
5.3.2 长按净化器的开关按键5秒，触发设备上网功能，此时WiFi图标闪烁；
5.3.2 Long press the purifier's 'power button' for 5 seconds to activate the device's networking function; the WiFi icon will flash during this process.



5.3.3 打开手机蓝牙与WIFI功能后，在‘FalconDesignSpace’ App内选择Connect Device，查找并选择净化器名称，随后选择并输入WiFi密码，即可完成配网，此时净化器上的WiFi图标常亮。
5.3.3 Turn on the Bluetooth and Wi-Fi functions on your phone, within the 'FalconDesignSpace' App, select 'Connect Device', search for and select the name of the purifier, then select and enter the WiFi password to complete the network connection. The WiFi icon on the purifier is always on.

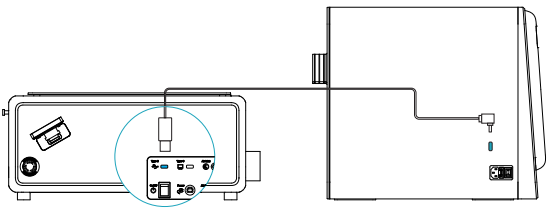


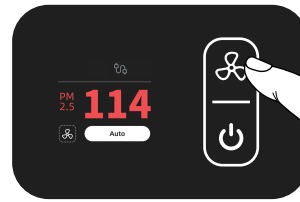
5.3.4 如您的App账户已连接过激光雕刻机，您可选择绑定净化器，随后净化器将与该雕刻机的加工任务同步启停。
此功能仅支持Falcon A1 Pro激光雕刻机，更多设备敬请期待。
5.3.4 If your App account has been connected to a laser engraver before, you can choose to bind the purifier, The purifier will then automatically sync its start/stop with the laser engraver's processing tasks.
This function is exclusively supported by the Falcon A1 Pro laser engraver. Support for additional devices will be announced in due course.



5.3.5 您可在App内远程开关、查看机器的状态、重置滤芯、设置延时关机时间等操作。
5.3.5 You can remotely turn on/off, check the machine status, reset the filter, set delayed shutdown time, and other operations within the App.

5.4 数据线连接/Data Cable Connection





通过数据线互联雕刻机与净化器，手动切换至auto模式，也可自动同步雕刻机的加工任务，实现自动启停功能。
Connect the engraver and purifier via data cable, manually switch to Auto mode for synchronized operation, enabling automatic start/stop with engraver's tasks.
在此情况下，净化器将优先与连接数据线的雕刻机进行加工联动。
In this case, the purifier will prioritize syncing with the engraver connected by the data cable.

6.滤芯更换说明/Filter Replacement Guide

***当出现以下几种情况时，请依据具体情况更换滤芯**
***Replace the filter when any of the following conditions occur**

设备状态一:

净化器包含2件滤芯，当滤芯吸附了大量污染物后，会增加风阻，当风阻达到一定程度时，滤芯失效，在App、显示屏上会出现滤芯失效图标，每次开机会有滤芯失效的提醒，您需要同时更换2件滤芯。

Device Status 1:

The purifier includes two filters. When the filters have adsorbed a large amount of pollutants, the air resistance will increase. Once the air resistance reaches a certain level, the filters will become ineffective. An indicator icon for filter failure will appear on the app and the display screen, and a filter replacement reminder will pop up every time the device is turned on. You need to replace both filters at the same time.

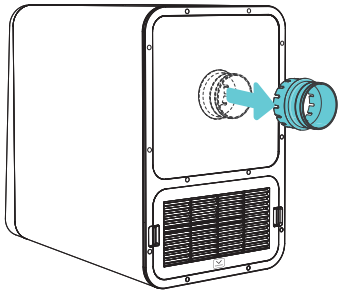
设备状态二

系统仍然工作，但风量微弱，吸入力大幅降低。
原因：进风口堵塞或滤筒达到饱和失效而形成堵塞。
处理：检查是否有异物堵塞进风口；再检查出风口是否堵塞。若检查、处理无异样后，重新开机如果还是风量小，则需更换过一级滤芯。

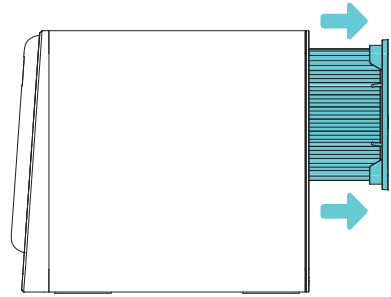
Device Status 2

System remains operational but with significantly reduced airflow and suction power
Cause: Likely caused by either intake vent blockage or filter saturation leading to clogging
Check for foreign objects blocking the air intake, then inspect the exhaust outlet for obstructions. If no issues are found after inspection/treatment but airflow remains weak, replace the first filter.

一级滤芯更换步骤:
First Filter Replacement Procedure:



1. 拔下连接管;
1. Removing the duct connector



2. 抽出一级滤芯,并插入新的滤芯;
(注意:滤芯齐平机箱为装好状态)
2. Pull out the filter and insert a new one.
(Note: The first filter is properly installed when it is flush with the chassis)

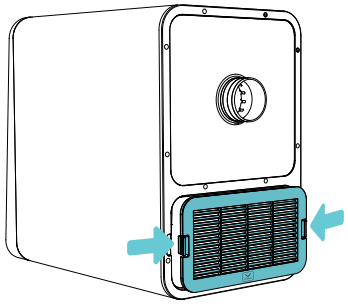
设备状态三:

现象：设备净化后的空气气味特别重。
原因：二级滤芯吸附饱和失效。
处理：需更换二级滤芯。

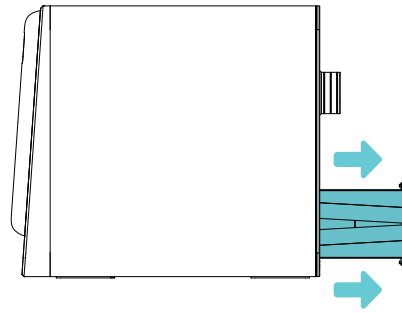
Device Status 3:

Issue: Purified air has a heavy odor
Cause: The secondary filter has reached adsorption saturation and failed.
Solution: Replace the secondary filter.

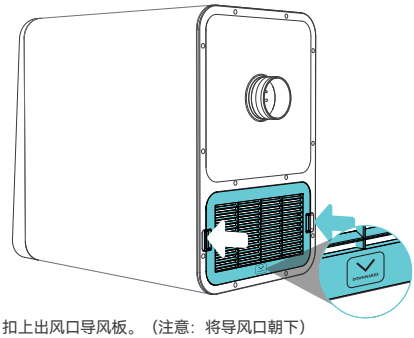
二级滤芯更换步骤:
Secondary Filter Replacement Procedure:



1. 按住出风口导风板两侧卡扣，取下导风板;
1. Press the buckles on both sides of the air outlet guide panel and remove it;



2. 抽出整个滤芯,并插入新的滤芯;
（注意：滤芯齐平机箱为装好状态）
2. Pull out the entire filter and insert a new one.
(Note: The filter is properly installed when fully seated flush with the unit housing.)

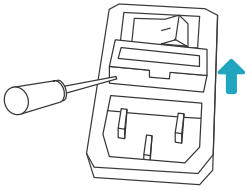


3. 扣上出风口导风板。（注意：将导风口朝下）
3. Snap the air outlet guide panel back into place.
(Note: Orient the air vent downward.)

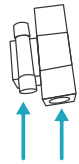
滤芯使用注意
*不可不放置滤芯使用;
*不可水洗滤芯，需整体更换;
*在更换和维护过滤系统之前,请务必先切断电源;
*须使用原厂提供的滤芯，否则可能造成机器故障。

Filter Usage Notes:
*Do not operate the purifier without the filters installed.
*Do not wash the filters with water—replace them entirely when needed.
*Always disconnect the power before replacing or servicing the filtration system.
*Only use original manufacturer-provided filters to avoid potential machine malfunctions.

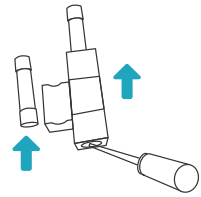
7.保险丝更换说明/Fuse Replacement Instructions



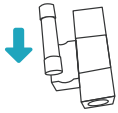
1. 先关掉电源,用螺丝刀撬出保险丝槽
1. Turn off the power first, then use a screwdriver to pry out the fuse tray.



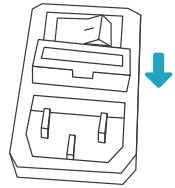
烧掉的保险丝 备用的保险丝
The blown fuse Spare fuse



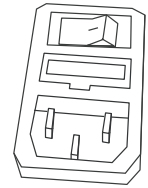
2. 拿掉坏掉的保险丝，用螺丝刀把备用保险丝取出
2. Remove the blown fuse, then use a screwdriver to take out the spare fuse.



3. 把备用保险丝安装在保险槽的卡扣上
3. Install the spare fuse into the clip of the fuse slot.



4. 把保险丝槽安装回三合一开关内
4. Reinstall the fuse tray back into the three-in-one switch.



5. 更换保险丝完毕
5. Fuse replacement completed.

CREALITY FALCON

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