

无线电子变速系统

ELECTRONIC DERAILLEUR SYSTEM

EDS TX



# 兰溪轮峰车料有限公司

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APP



## Download the app

Please use "Goodle Play" or "APP Store" and search for "WHEEL TOP" to download the software!

# EDS TX

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## 重要提示 Important Notice

为了安全起见,使用产品前请务必仔细阅读此用户手册,并遵照指示正确使用。

For safety, please read this user manual carefully before using the product and follow the instructions for proper use.

# 安全说明

## Safety Instructions

进行安装之前，您必须阅读并理解产品随附的安全说明书。部件安装不当是极为危险的，可能导致严重甚至致命的人身伤害。如果您对部件安装有任何疑问，请咨询专业的自行车技工。

Before installation, you must read and understand the safety instructions included with the product. Improper installation of components is extremely dangerous and may cause severe or even fatal injuries. If you have any doubts about component installation, consult a professional bike mechanic.

## 注意

### Note

本手册是完整的系统安装指南，涵盖从每个部件拆箱直至骑行启程的整个过程。按照本手册所述的顺序，完成相应的安装与设置。完成上一步操作后，方可开始下一步操作。本产品销售区域请参考官方网站解释，若在未许可区域销售，责任自负。  
本设备符合FCC规则第15部分。

This manual serves as a complete system installation guide, covering the entire process from unpacking each component to starting your ride. Follow the sequence outlined in this manual to complete installation and setup step by step. Begin the next step only after completing the previous one. For product sales regions, refer to the official website for details. If sold in unlicensed areas, responsibility lies with the seller.  
This equipment complies with Part 15 of the FCC Rules.

## 注意

### 操作要求：

- (1) 本设备不得造成有害的干扰，
- (2) 本设备必须接受收到的任何干扰，包括可能导致不希望的操作的干扰。

任何未经合规责任方明确批准的更改或修改都可能使用户操作设备的权力无效。

### FCC 合规性：

根据FCC规则第15部分，本设备已经过测试，符合B级数字设备的限制。这些限制旨在提供合理保护，防止住宅安装中的有害干扰。本设备产生、使用和辐射射频电量，如果不按照说明书安装和使用，可能对无线电通信造成有害干扰。但是，不能保证在特定的安装中不会发生干扰。如果本设备确实对电子设备造成有害干扰，这可以通过关闭和打开设备来确定，鼓励用户尝试通过下列一项或多项措施来纠正干扰：

- 调整接收天线的方向。
- 增加设备与接收器之间的距离。
- 将设备连接到与接收器连接的不同的电路上的一个出口。
- 向经销商或有经验的技术人员寻求帮助。

该设备符合FCC辐射暴露限制规定的不受控制的环境。本设备的安装和操作应在散热器与您的身体之间至少20厘米的距离。

## Note

### **Operational Requirements:**

- (1) This device must not cause harmful interference,
- (2) This device must accept any interference received, including interference that may result in undesirable operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **FCC Compliance:**

This device has been tested and found to comply with the limits for a Class B digital device under Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installations. The device generates, uses, and can radiate radio frequency energy. If not installed and used according to the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in specific installations. If harmful interference occurs, users can try the following remedies:

- Adjust the direction of the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the equipment to a different circuit than the receiver.
- Consult the dealer or an experienced technician for help.

This device complies with FCC radiation exposure limits set for an uncontrolled environment. Maintain a minimum distance of 20 cm between the radiator and your body during operation and installation.

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## 需要用到的工具 Tools Needed

安装部件需要非常专业的工具和用品。安装如遇到问题，我们建议您让专业的自行车技工安装。

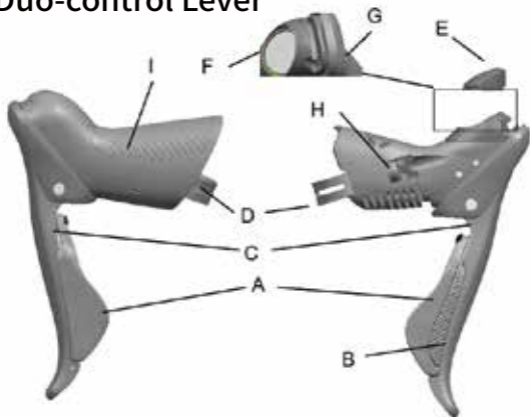
(2mm/3mm /4mm /5mm内六角扳手、手套、护目镜等)

Installing parts requires very specialized tools and supplies. If you encounter problems with installation, we recommend that you have it installed by a professional bicycle mechanic.

(2mm/3mm /4mm /5mm Allen wrench, gloves, goggles)

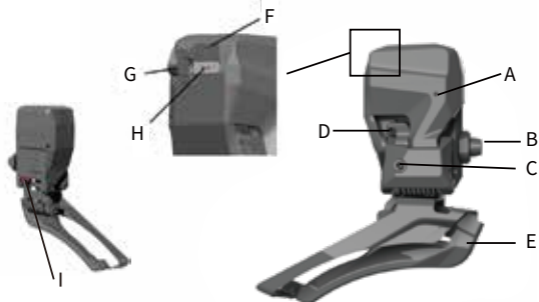


## 双控手柄 Duo-control Lever



- A.大按键
- B.小按键
- C.刹车杆
- D.夹环
- E.电池盖
- F.电池座
- G.LED灯
- H.固定螺钉
- I.硅胶外套

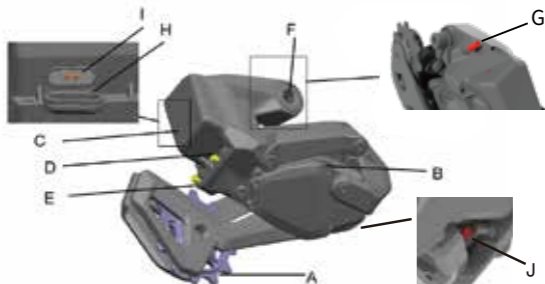
- A.Large keys
- B.Small buttons
- C.Brake levers
- D.Clamp rings
- E.Battery cover
- F.Battery holder
- G.LED lights
- H.Set screws
- I.Silicone coat

前拨  
Front Derailleur

- A. LED状态指示灯
- B. 安装螺丝
- C. 微调螺丝
- D. 限位螺丝
- E. 导板
- F. 充电指示灯
- G. 防尘盖
- H. 磁吸接口
- I. 支撑螺丝

- A. LED status indicator light
- B. Mounting screw
- C. Fine-tuning screw
- D. Limiting screw
- E. Guide plate
- F. Charging indicator light
- G. Dust cover
- H. Magnetic interface
- I. Support screw

## 后拨 Rear Derailleur



- |             |                                       |
|-------------|---------------------------------------|
| A. 导轮       | A. Pulley                             |
| B. LED指示灯   | B. LED indicator light                |
| C. 充电指示灯    | C. Charging indicator light           |
| D. 最小飞轮限位螺丝 | D. Minimum sprocket limit screw       |
| E. 最大飞轮限位螺丝 | E. Maximum sprocket limit screw       |
| F. 安装螺丝     | F. Mounting screw                     |
| G. 后拨张力螺丝   | G. Rear derailleur tension screw      |
| H. 防尘盖      | H. Dust cover                         |
| I. 磁吸接口     | I. Magnetic interface                 |
| J. 初始位置微调螺丝 | J. Initial position fine-tuning screw |

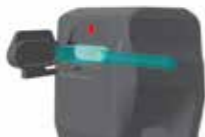
## 变速器充电 Charging the Shifting System



### 前/后拨 Front/Rear Derailleur

1. 打开防尘罩, 连接充电线的磁吸接头。
2. 开始充电。
3. 当指示灯不亮时, 取下充电线的磁吸接头。

1. Open the dust cover and attach the magnetic charging cable to the charging port.
2. Begin charging.
3. Once the indicator light turns off, unplug the magnetic charging cable



### LED指示灯说明 LED indicator description

● 红灯	正在充电	● 熄灭	充电完成
● Red	Charging	● Extinguished	Completion

## 注意事项 Precautions

- 1.请确认带USB端口的DC连接器电压为5.0Vdc,电流小于2 Adc。
  - 2.如果电池充电6个小时后仍未充满,请停止充电。
  - 3.操作充电时确认手或手套干燥。
  - 4.充电时不能使用产品,电池温度大于50°时,要及时停止充电,联系售后。
  - 5.如需更换电池,请注意使用专用工具拆卸螺丝。
  - 6.不能使用未经许可的第三方电池(特别是后拨),可能会导致变速器无法正常工作。
- 
- 1.Ensure that the USB port's DC connector provides 5.0Vdc voltage and a current below 2Adc.
  - 2.If the battery is not fully charged after 6 hours, stop charging.
  - 3.Ensure hands or gloves are dry while handling the charging process.
  - 4.The product cannot be used while charging. If the battery temperature exceeds 50°C, stop charging immediately and contact customer support.
  - 5.When replacing the battery, use specialized tools to remove screws.
  - 6.Do not use unauthorized third-party batteries (especially for the rear derailleur), as this may cause the system to malfunction.

## 系统配对 System pairing



### 进入配对 Enter the pairing

拨开后拨防尘盖，将接上电源的充电线磁吸接头与后拨的磁吸接口相连接、拔掉磁吸接头，指示灯蓝色闪烁，进入配对模式。

Open the dust cover of the rear derailleur, connect the magnetic connector of the powered charging cable to the magnetic interface of the rear derailleur. Unplug the magnetic connector, and the indicator light will blink blue, entering pairing mode.

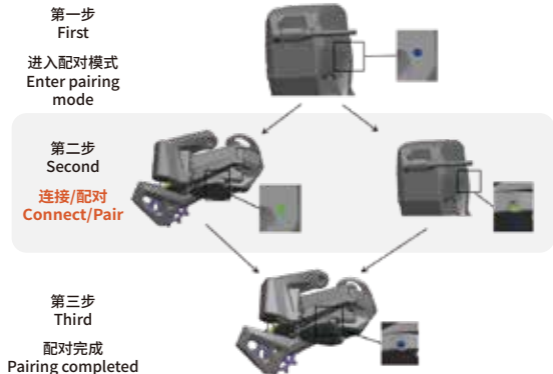


### 进行配对 Pairing

将后拨与前拨、左/右手变按顺序配对。

Pair the rear derailleur with the front derailleur and the left/right hand shifters in sequence.

## 系统配对 System pairing



### 前拨链器配对 Front derailleur pairing

拨开前拨防尘盖，将接上电源的充电线磁吸接头与前拨的磁吸接口相连接，拔掉磁吸接头，指示灯蓝色闪烁，进入配对模式。  
与后拨配对成功后，后拨和前拨指示灯亮绿色1秒，然后，后拨蓝色指示灯继续闪烁。

Open the dust cover of the front derailleur, connect the magnetic connector of the powered charging cable to the magnetic interface of the front derailleur. Unplug the magnetic connector, and the indicator light will blink blue, entering pairing mode.

After successful pairing with the rear derailleur, the indicator lights of the rear and front derailleurs will light up green for 1 second. Then, the blue indicator light of the rear derailleur will continue to blink.

## 系统配对 System pairing



## 双控手柄配对

**第一步** 旋下左/右手变电池盖，按住手变变档按钮、装入电池，直至手变指示灯闪烁蓝色，进入配对模式。

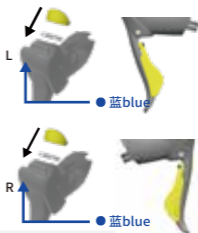
**第二步** 与后拨配对成功后，后拨和左/右手变指示灯亮绿色1秒，然后，后拨蓝色指示灯继续闪烁。接着按照相同步骤配剩下的手变。

**注：若未闪烁蓝灯请重复此操作“第一步”，当进入配对模式后，若30秒后未进行配对操作自动退出该模式。**

## 系统配对 System pairing

第一步  
First

进入配对模式  
Enter pairing mode



第二步  
Second

连接/配对  
Connect/Pair



● 绿 GREEN



● 绿 GREEN

第三步  
Third

配对完成  
Pairing completed



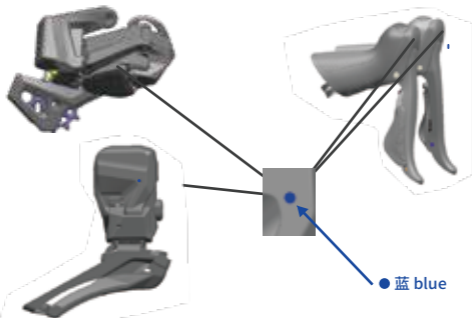
● 蓝 blue

## Duo-control Lever pairing

- First Unscrew the left/right battery cover, press and hold the manual shift button, and insert the battery until the manual shift indicator flashes blue, and enter the pairing mode.
- Second After successfully pairing with the rear derailleur, the rear derailleur and left/right hand change indicator will light up green for 1 second, and the blue indicator of the rear derailleur will continue to flash. Then follow the same steps with the rest of the hand.

**Note: If the blue light does not flash, please repeat this operation "Step 1", when entering the pairing mode, if the pairing operation is not performed after 30 seconds, it will automatically exit the mode.**

## 系统配对 System pairing



## 退出配对 Exit pairing

### 设备主动退出

依次将前拨、右手变、左手变配对完成后，设备指示灯闪烁3下蓝灯，而后熄灭并退出“配对模式”

### 设备被动退出

使用已与后拨配对完毕的控制设备，长按其按键5秒，退出“配对模式”

### Active Device Exit

After successfully pairing the front derailleur, right-hand shifter, and left-hand shifter in sequence, the device's indicator light will blink blue three times, then turn off and exit "Pairing Mode."

### Passive Device Exit

Using the control device that has already been paired with the rear derailleur, press and hold its button for 5 seconds to exit "Pairing Mode."

**注：配对完成后，可尝试操作已配对设备的按键，尝试换挡功能是否正常，如遇异常请尝试重新进行磁吸配对。**

**Note: After pairing is completed, test the buttons on the paired device to verify if the gear switching function works properly. If any abnormality occurs, try re-establishing the magnetic pairing connection**

## 注意事项 Precautions

1. 变速器设备运输过程中处于关机状态, 开箱后请先插上磁吸接头对设备进行唤醒; 若想对设备进行关机操作, 请在APP端进行。
2. 开箱前拨链器套件已经完成配对, 无需重新配对。
3. 变速器工作过程中, 请勿用金属、液体、或者其他影响无线通讯物品进行遮挡, 否则会影响变速套件正常工作。
4. 在配对过程中出现错误操作, 需重新进行配对操作。
5. 若发生任何部件更换、增加或卸除, 只需对后拨与变更部件进行配对操作即可, 若变更后拨则需对所有配件进行重新配对。
6. 为提高配对成功率, 配对顺序需要按照用户手册严格执行。
7. 开始配对后一段时间内没有操作会自动退出配对模式。
8. 如果周围有多个变速器, 请依次配对, 期间不要操作其他变速器。
9. 批量配对时, 建议用APP依次扫码配对。
10. 变速器设备默认状态为休闲模式, 若要调整为竞技模式, 请在APP端切换

1. The transmission device is in a shutdown state during transportation. After unpacking, please plug in the magnetic connector to wake up the device. If you want to shut down the device, please operate on the APP.
2. The front derailleur kit has been paired before unpacking and does not need to be paired again.
3. During the operation of the transmission, please do not cover it with metal, liquid or other items that affect wireless communication, otherwise it will affect the normal operation of the transmission kit.
4. If an incorrect operation occurs during the pairing process, you need to repeat the pairing operation.
5. If any parts are replaced, added or removed, only the rear derailleur needs to be paired with the changed parts. If the rear derailleur is changed, all accessories need to be re-paired.
6. In order to improve the success rate of pairing, the pairing sequence must be strictly followed according to the user manual.
7. The pairing mode will automatically exit if there is no operation within a certain period after starting pairing.
8. If there are multiple transmissions around, please pair them one by one and do not operate other transmissions during this period.
9. When performing batch pairing, it is recommended to pair them one by one using the APP to scan the code.
10. The default state of the transmission device is leisure mode. If you want to switch to competitive mode, please switch on the APP.

## 变速系统安装

### Gear system installation

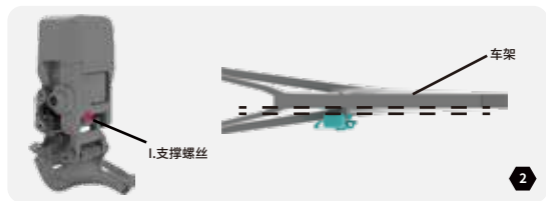
6.0-8.0N·m



5

### 双控手柄

从上端翻开支架胶套, 用5mm的内六角扳手将固定螺钉旋松, 然后将夹环穿过车把。将手变安装于车把上, 拧紧固定螺丝(6.0-8.0N·m)。



2



LEGEND-1



LEGEND-2



### 前拨链器

选用2mm的内六角扳手调整I.支撑螺丝, 使前拨链器平行于车架  
逆时针调节支撑螺丝, 前拨链器远离车架 (LEGEND-1)  
顺时针调节支撑螺丝, 前拨链器倾向车架 (LEGEND-2)

## 变速系统安装 Gear system installation

6.0-8.0N·m



### Duo-control Lever

5

Flip open the rubber sleeve from the top end, loosen the set screws with a 5mm Allen wrench, and then thread the clamp ring through the handlebar. Attach the hand adapter to the handlebar and tighten the fixing screw (6.0-8.0N·m).



LEGEND-1



LEGEND-2

### Front derailleur

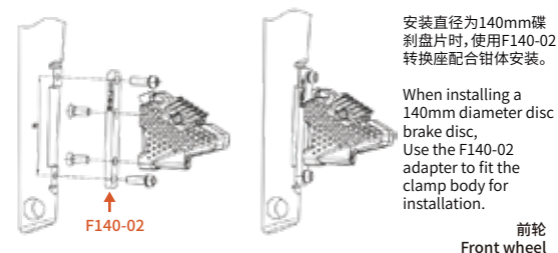
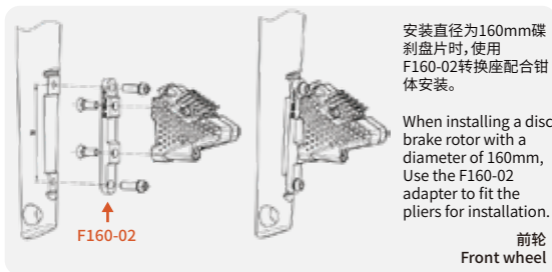
Use a 2mm Allen wrench to adjust the I. support screws so that the front derailleur is parallel to the frame.

Turn the support screws counterclockwise, and the front derailleur moves away from the frame (LEGEND-1).

Turn the support screws clockwise, and the front derailleur tilts toward the frame (LEGEND-2).

## 制动系统安装 Brake system installation

### 前-制动钳体安及转换座安装 Front-brake caliper body safety and adapter mounting

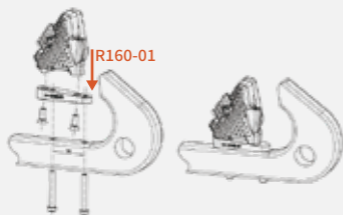


注意箭头和文字方向!

Pay attention to the arrows and text directions!

## 制动系统安装 Brake system installation

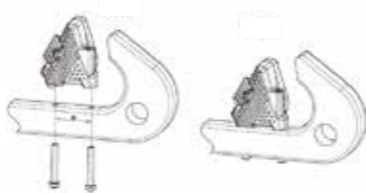
### 后-制动钳体安及转换座安装 Rear-brake caliper body safety and adapter mounting



安装直径为160mm碟刹盘片时,使用R160-01转换座配合钳体安装。

When installing a disc brake rotor with a diameter of 160mm, Use the R160-01 adapter to fit the pliers for installation.

后轮  
Rear wheels



安装直径140mm碟刹盘片时,无需转换座直接安装钳体。

When installing a 140mm diameter disc brake disc, There is no need for a conversion base to install the pliers directly.

后轮  
Rear wheels

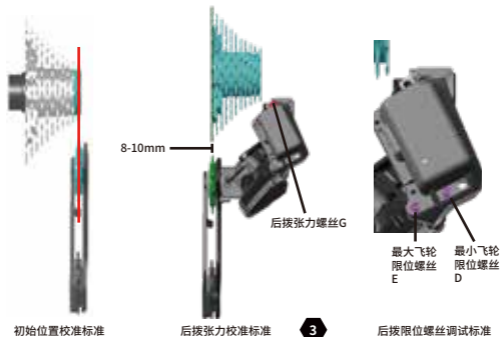


注意箭头和文字方向!

Pay attention to the arrows and text directions!

# 变速器校准 Derailleur Calibration

调试标准  
Adjustment Methods



初始位置校准标准

后拨张力校准标准

3

后拨限位螺丝调试标准

2

## 后拨链器校准

### 初始位置校准标准

对变速器进行初始校准(推荐使用“A.微调螺丝方式”),直到后拨拨链器上导轮中心与最小齿轮中心对齐。

### 后拨张力校准标准

将前拨变档至小盘,后拨变档至最大飞轮处,调节“后拨张力螺丝G”,直到上导轮与最大飞轮盘片距离约为8-10mm。(不同的后链轮尺寸会有所差异最优距离会有所差异,此处尺寸仅提供参考)

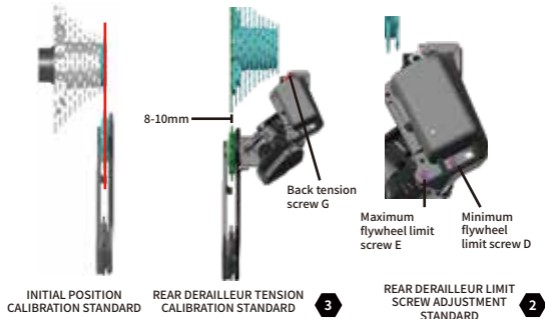
### 后拨限位螺丝调试标准

注:“初始校准后”(建议使用“A.微调螺丝方式”)&“后拨张力校准”调整完毕后,方可进行以下操作!

1. 将后拨切换到最小飞轮(1档位),调整“最小飞轮限位螺丝D”,直至其轻轻接触到限位处,然后将螺丝回转1/4圈;
2. 将后拨切换到最大飞轮,调整“最大飞轮限位螺丝E”,直至其轻轻接触到限位处,然后将螺丝回转1/4圈;
3. 测试变速,是否正常,如无法降至最低/升至最高,请尝试再次将螺丝回转1/4圈。

## 变速器校准 Derailleur Calibration

调试标准  
Adjustment Methods



### Rear Derailleur Calibration

#### Initial Position Calibration Standard

Perform an initial calibration of the derailleur (**recommended using "A. Micro-Adjustment Screw Method"**) until the center of the upper pulley aligns with the center of the smallest cog.

#### Rear Derailleur Tension Calibration Standard

Shift the front derailleur and the rear derailleur to the largest cog. Adjust the "Rear Derailleur Tension Screw G" until the distance between the upper pulley and the largest cog is approximately 8–10mm.

The optimal distance may vary depending on the size of the rear cassette. This dimension is provided as a reference.

#### Rear Derailleur Limit Screw Adjustment Standard

**Note: Only proceed with the following steps after completing both the "Initial Position Calibration" (recommended using "A. Micro-Adjustment Screw Method") and "Rear Derailleur Tension Calibration."**

1. Shift the rear derailleur to the smallest cog (1st gear) and adjust the "Minimum sprocket limit screw D" until it lightly touches the limit point. Then, back the screw off by 1/4 turn.
2. Shift the rear derailleur to the largest cog and adjust the "Maximum sprocket limit screw E" until it lightly touches the limit point. Back the screw off by 1/4 turn.
3. Test shifting to confirm smooth operation. If the derailleur cannot shift to the lowest or highest cog, try backing the screw off by another 1/4 turn.

## 变速器校准 Derailleur Calibration

调试标准  
Adjustment Methods

LEGEND-1



LEGEND-2

### 前拨链器校准 Front Derailleur Calibration

#### 初始位置校准标准

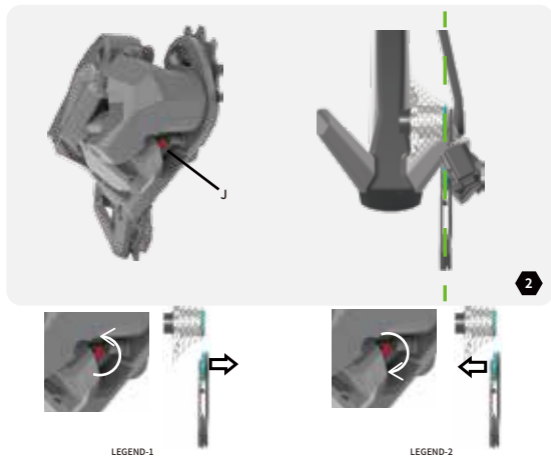
对前拨进行“初始位置校准”，直到前拨外侧导板与最大链片轮链条相距1~2mm。若无链条做参照，将前拨内侧导板与最大链片轮的距离调至3.8~5.8mm(LEG-END-2)。

#### Initial position calibration criteria

Perform "initial position alignment" on the front pick until the front pick outside guide is 1 to 2mm away from the maximum chainwheel chain. If there is no chain for reference, adjust the distance between the front inner guide and the maximum chain wheel to 3.8~5.8mm(LEGEND-2).

## 变速器校准 Derailleur Calibration

A. 微调螺丝方式  
A. Micro-Adjustment  
Screw Method



LEGEND-1

LEGEND-2

### 后拨链器初始校准

将后拨切换至最小飞轮 (1 档位), 选用 2mm 的内六角扳手调整初始位置微调螺丝 J, 调整至后拨上导轮中心与最小飞轮齿片中心对齐。

逆时针调节初始位置微调螺丝 J, 后拨上导轮向最小飞轮齿移动 (LEGEND-1)

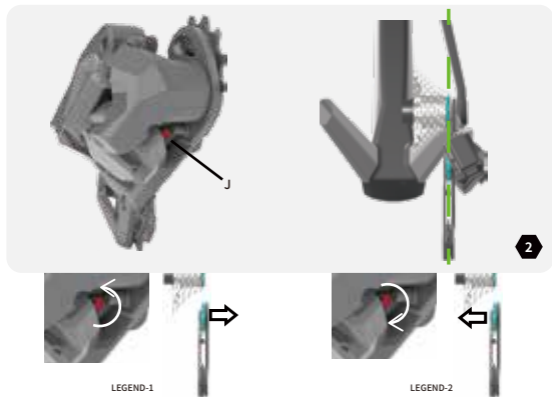
顺时针调节初始位置微调螺丝 J, 后拨上导轮向最大飞轮齿移动 (LEGEND-2)

### 注意事项

1. 调试时请确保后拨档位处于最小飞轮 (1 档位) 位置!, 前拨处于大盘 (1 档位) 位置。
2. 请持续转动链轮, 否则可能损伤变速器。
3. 请勿在骑行过程中, 进行初始校准!

## 变速器校准 Derailleur Calibration

A. 微调螺丝方式  
A. Micro-Adjustment  
Screw Method



### Initial position adjustment of rear chain puller

Switch back to the minimum flywheel (gear 1), use a 2mm Allen wrench to adjust the initial position of the fine-tuning screw J, and adjust it until **the center of the upper guide wheel is aligned with the center of the minimum flywheel teeth.**

Adjust the initial position of the fine-tuning screw J counterclockwise, and turn the guide wheel back to the minimum flywheel tooth movement (LEGEND-1)

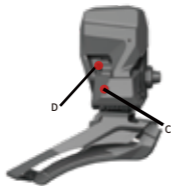
Adjust the initial position of the fine-tuning screw J clockwise, and turn the guide wheel back towards the maximum flywheel tooth movement (LEGEND-2)

### Precautions

1. Make sure that the rear derailleur is set to the position of the smallest cassette(1 gear) during debugging! Derailleur is in the largest chainring (1st gear).
2. Keep turning the sprocket, otherwise the transmission may be damaged.
3. Do not perform initial calibration during the ride!

## 变速器校准 Derailleur Calibration

A. 微调螺丝方式  
A. Micro-Adjustment  
Screw Method



LEGEND-1



LEGEND-2



### 前拨初始位置调整 Initial position adjustment

将前拨调整至**外侧导板与最大链片轮链条相距1~2mm**。

若无链条做参照，将前拨内侧导板与最大链片轮的距离调至3.8~5.8mm。

逆时针调节初始位置微调螺丝C，前拨向小盘移动 (LEGEND-1)

顺时针调节初始位置微调螺丝C，前拨向大盘移动 (LEGEND-2)

Adjust the front derailleur so that the distance between the outer guide plate and the chain of the largest sprocket is 1 - 2 mm.

If there is no chain as a reference, adjust the distance between the inner guide plate of the front derailleur and the largest sprocket to 3.8 - 5.8 mm.

Turn the initial position fine-tuning screw C counter-clockwise, and the front derailleur moves towards the small chainring (LEGEND - 1).

Turn the initial position fine-tuning screw C clockwise, and the front derailleur moves towards the large chainring (LEGEND - 2).

**注：调整完毕后，将前拨换挡至大盘，轻拧限位螺丝D至螺丝与平面接触。**

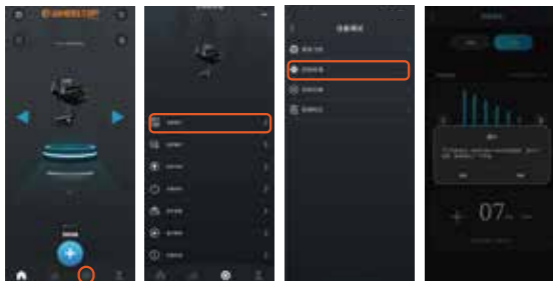
**Note: After adjustment, shift the front derailleur to the largest chainring and gently tighten the limit screw D until the screw is in contact with the plane.**

## 变速器校准 Derailleur Calibration

B.APP方式  
B.App-Based Adjustment

请使用APP查看,通过点击设置选择中的“设备调试”-“初始校准”。

Please check using the APP by tapping on Settings and selecting "Device Debugging"- "Initial Calibration."



主页  
Home



设置页-设备调试  
Settings-Device  
Debugging



初始校准  
Initial Calibration



调试页面  
Debugging Page

### 注意事项 Precautions

1. 调试时请确保后拨档位处于最小飞轮 (1档位) 位置、前拨处于大盘 (1档位) 位置!
2. 请持续转动链轮, 否则可能损伤变速器。
3. 请勿在骑行过程中, 进行初始校准!

#### 4. 推荐优先使用“A.微调螺丝方式”。

1. During debugging, please make sure that the rear derailleur is in the smallest sprocket (1st gear) position and the front derailleur is on the large chainring position! Derailleur is in the largest chainring (1st gear).
2. Keep turning the sprocket, otherwise the transmission may be damaged.
3. Do not perform initial calibration during the ride!

#### 4. A. Trimming screws is recommended.

点击方向按键，调整前拨初始位置，直至外侧导板与最大链片轮链条相距 1~2mm。Align the upper pulley of the front derailleur with the center of the smallest cog



当点击左侧按键时，  
前拨远离小盘

注：  
请确保上下档位调整顺畅，设备无异响

When the left button is clicked,  
the front derailleur moves away  
from the small chainring.

Note:  
Please ensure that **the shifting  
between gears is smooth and  
the device operates without  
any unusual noises.**



当点击右侧按键时，  
前拨靠近小盘

注：  
请确保上下档位调整顺畅，设备无异响

When the right button is clicked,  
the front derailleur moves closer to  
the small chainring.

Note:  
Please ensure that **the shifting  
between gears is smooth and  
the device operates without  
any unusual noises.**

## 注意事项 Precautions

- 1.请确保后拨处于大盘(1档位)位置!
- 2.调试完毕后，请轻拧旋“限位螺丝D”轻拧紧“微调螺丝C”。

1. Make sure that the rear derailleur is set to the position of the smallest cassette(1 gear) during debugging! Derailleur is in the largest chainring (1st gear).
- 2.After adjustment, gently tighten the "limit screw D" and lightly secure the "adjustment screw C."

直到后拨链器上导轮中心与最小齿轮中心对齐。

Align the upper pulley of the rear derailleur with the center of the smallest cog



当点击左侧按键时，  
后拨远离小齿片

注：  
请确保上下档位调整顺畅，设备无异响

When the left button is clicked,  
the rear derailleur moves away from  
the small chainring.

Note:  
Please ensure that **the shifting  
between gears is smooth and  
the device operates without  
any unusual noises.**



当点击右侧按键时，  
后拨靠近小齿片

注：  
请确保上下档位调整顺畅，设备无异响

When the right button is clicked,  
the rear derailleur moves closer to  
the small chainring.

Note:  
Please ensure that **the shifting  
between gears is smooth and  
the device operates without  
any unusual noises.**

## 注意事项 Precautions

1. 请确保后拨处于最小飞轮 (1档位) 位置! 前拨处于大盘 (1档位) 位置。

2. 调试完毕后, 请轻拧旋紧“最小飞轮限位螺丝E”。

1. Make sure that the rear derailleur is set to the position of the smallest cassette(1 gear) during debugging! Derailleur is in the largest chainring (1st gear).

2. After the debugging is complete, please gently tighten the "smallest cassette limit screw E".

## 变速器校准 Derailleur Calibration

C. 手柄微调方式  
C.Handle  
Micro-Adjustment

第一步



第二步



## 后拨链器初始校准

**第一步:** 长按小按键5秒 后拨指示灯亮起。(LEGEND-1)

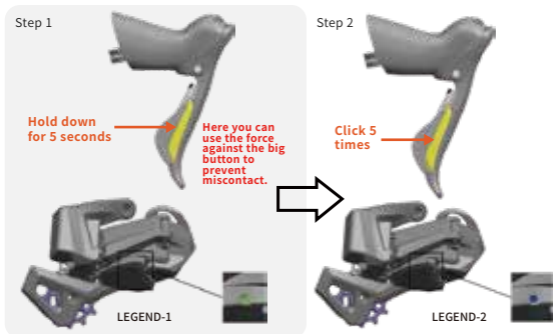
**第二步:** 后拨指示灯亮起的3秒内, 单击小按键5次进入“初始位置校准” 后拨指示灯蓝色常亮。(LEGEND-2)

### 注意事项

1. 调试时请确保后拨档位处于最小飞轮 (1档位) 位置, 前拨处于大盘 (1档位) 位置!
2. “初始位置校准”功能能够精细的调整变速器与链轮的轴方距离 (0.2mm 每次), 可以优化变速器的性能, 提升换挡的平顺性。
3. 在进行变速器的调整时务必要转动链轮, 否则有可能损伤变速器。
4. 推荐使用“A. 微调螺丝方式”进行微调。
5. 请勿在骑行过程中进行初始校准!

## 变速器校准 Derailleur Calibration

C.手柄微调方式  
C.Handle  
Micro-Adjustment



### Initial position calibration of rear puller

**Step 1:** Long press the small button for 5 seconds and then the dial indicator will light up. (LEGEND-1)

**Step 2:** Click the small button 5 times to enter the "Initial Position Calibration" within 3 seconds after the light is on. The rear switch indicator is steady blue. (LEGEND-2)

#### Precautions

1. During debugging, please ensure that the rear derailleur is set to the smallest sprocket (1st gear) and the front derailleur is on the large chainring position!
2. The "Initial Position Calibration" function can finely adjust the axial distance between the derailleur and the sprocket by 0.2 mm each time, which can optimize the performance of the derailleur and improve the smoothness of shifting.
3. When adjusting the derailleur, be sure to turn the sprocket; otherwise, it may damage the derailleur.
4. It is recommended to use the "A. Fine-tuning Screw Method" for fine-tuning.
5. Do not perform initial calibration while riding!

## 变速器校准 Derailleur Calibration

C.手柄微调方式  
C.Handle  
Micro-Adjustment

### 第三步 Step 3



### 后拨链器初始校准

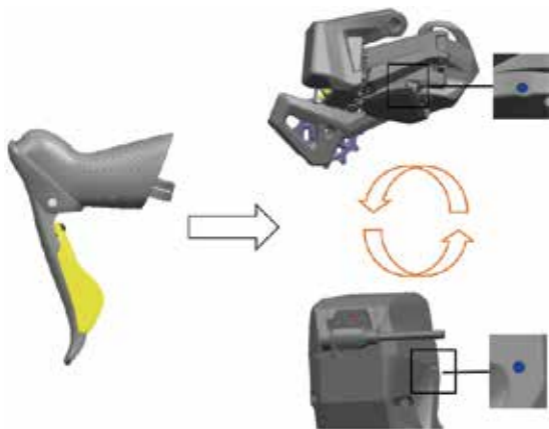
**第三步:**按下右手变大按键,后拨朝大齿片方向运动(LEGEND-1);  
同时按下右手变大按键和小按键,后拨朝小齿片方向运动(LEGEND-2)。  
按一下手变按键,指示灯蓝色闪一下,而后恢复常亮。

**Step 3:** Press the right - hand up - shift button, and the rear derailleur moves towards the larger sprocket direction (LEGEND - 1);  
Press both the right - hand up - shift button and the small button simultaneously, and the rear derailleur moves towards the smaller sprocket direction (LEGEND - 2).  
Press a shifter button once, the indicator light flashes blue once and then returns to a steady light.

将前拨链器调整为大盘,将后拨链器上导轮中心与最小齿轮中心对齐。  
**Adjust the front derailleur to the large chainring and align the center of the guide pulley of the rear derailleur with the center of the smallest sprocket.**

## 变速器校准 Derailleur Calibration

C.手柄微调方式  
C.Handle  
Micro-Adjustment



### 切换校准设备 Switch the calibration device

按下左手变按键可以对初始位置校准的设备进行选择，  
被选中的设备蓝色指示灯常亮。  
进入初始校准模式时**默认选择后拨**。

Pressing the left - hand shifter button allows you to select the device for initial position calibration.  
The blue indicator light of the selected device will remain on continuously.  
When entering the initial calibration mode, **the rear derailleur is selected by default**.

## 变速器校准 Derailleur Calibration

C.手柄微调方式  
C.Handle  
Micro-Adjustment



LEGEND-1

LEGEND-2

### 前拨初始校准 Initial calibration of the front derailleur

选中前拨时，按下右手变大按键，前拨朝大盘运动(LEGEND-1)；  
同时按下右手变大按键和小按键，前拨朝小盘运动(LEGEND-2)。

When the front derailleur is selected, press the right - hand up - shift button, and the front derailleur moves towards the large chainring (LEGEND - 1);

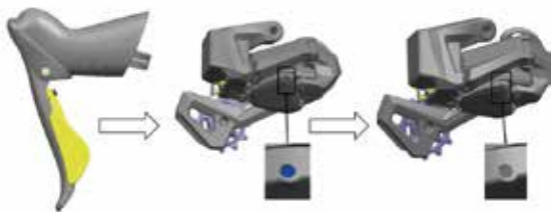
Press both the right - hand up - shift button and the small button simultaneously, and the front derailleur moves towards the small chainring (LEGEND - 2).

**前拨外侧导板与最大盘片轮链条1~2mm。若无链条做参照，将前拨外侧导板与最大盘片的距离调至3.8~5.8mm**

**The outer guide plate of the front derailleur should be 1 - 2mm away from the chain on the largest chainring. If there is no chain as a reference, adjust the distance between the outer guide plate of the front derailleur and the largest chainring to 3.8 - 5.8mm.**

## 变速器校准 Derailleur Calibration

C. 手柄微调方式  
C.Handle  
Micro-Adjustment



### 退出初始校准 Exit the initial calibration

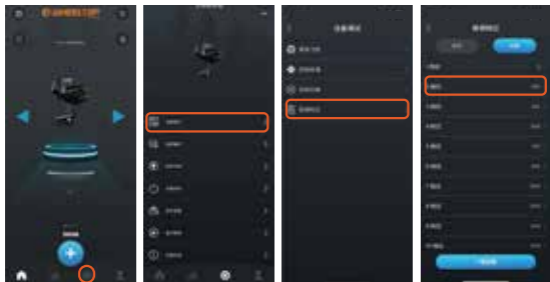
校准完成后, 长按左手变3秒退出该模式。

After calibration is completed, long - press the left - hand shifter for 3 seconds to exit this mode.

## 变速器调整 Derailleur Adjustment

请使用APP查看,通过点击设置选择中的“设备调试”-“微调档位”。

Please check using the APP by tapping on Settings and selecting "Device Debugging"- "Fine-tune Gear Positions."



主页  
Home



设置页-设备调试  
Settings-Device  
Debugging



微调档位  
Fine-tune Gear  
Positions



选档 (示例选“2档位”)  
Select Gear  
(for example, se-  
lect "2nd gear")

### 注意事项 Precautions

- 1.请确保完成“初始位置校准”后再进行此操作!
- 2.请勿在骑行过程中,进行微调档位!

- 1.Please ensure that the "initial position calibration" is completed before proceeding with this operation!
- 2.Do not fine-tune gear positions while riding!

点击对应档位以调整数值 (两种调整方式): Adjust the values for each gear using two methods:

1. 点击加减按钮改变数值

2. 点击数值, 直接输入修改的数值

1. Use the +/- buttons to change the value  
2. Click the displayed value and directly input the new number.



当数值变大时, 后拨靠近车架

注:

1. 请确保**上下档位调整顺畅, 设备无异响**
2. 调整数值后, **需要切换其它档位后再调回**, 方可验证变动数值

When the value increases, the rear derailleur moves closer to the frame.

Notes:

1. Please ensure that **gear shifting is smooth and the device operates without any unusual noises.**
2. After adjusting the value, **you need to switch to another gear** before switching back to verify the change in value.



当数值变小时, 后拨远离车架

注:

1. 请确保**上下档位调整顺畅, 设备无异响**
2. 调整数值后, **需要切换其它档位后再调回**, 方可验证变动数值

When the value decreases, the rear derailleur moves away from the frame.

Notes:

1. Please ensure that **gear shifting is smooth and the device operates without any unusual noises.**
2. After adjusting the value, **you need to switch to another gear** before switching back to verify the change in value.

注: 如果加减档位时有异常, 可尝试调节当前档位以及相邻档位的数值, 使得后拨上导轮与对应速别的飞轮的齿尖对齐

Note: If there is an anomaly when adding or subtracting the gear, try to adjust the value of the current gear and the adjacent gear so that the tooth tip of the rear-set upper guide wheel is aligned with the flywheel of the corresponding speed



## 变速器换挡 Shifting Operations

### 循环换挡操作

#### Cyclic shifting operation

##### 正常换挡:

按下左手变按键, 变速器会在大齿和小齿循环换挡, 每按一下LED闪烁一下。

**如果特殊情况, 变速未成功, 可使用强制换挡。**

##### Normal Shifting:

Press the left - hand shifter button, and the derailleur will shift cyclically between the large and small sprockets. The LED will flash once for each press.

**In case of special circumstances where shifting fails, forced shifting can be used.**

##### 强制换挡:

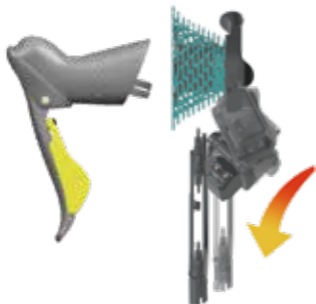
长按左手变按键时前拨处于强制换挡状态。左手变按键被按住时前拨导板停留在最大上/下链位置, 松开后回到正常位置。

##### Forced Shifting:

When the left - hand shifter button is held down for a long time, the front derailleur is in the forced shifting state. When the left - hand shifter button is held down, the front derailleur guide plate stays at the maximum up/down chain position and returns to the normal position after being released.



## 变速器换挡 Shifting Operations



### 升档/加档操作 Upshift operation

按下右手变大按键，变速器加档，向大齿片运动。

每按一下指示灯闪烁一下，**长按可持续升档。**

Press the right hand big button to shift to a higher gear (towards a larger cog).

Each press causes the indicator light to flash once.

**Long-press for continuous up-shifting.**



### 降档/减档操作 Downshift operation

按下右手变小按键和大按键，变速器减档，向小齿片运动。

每按一下指示灯闪烁一下，**长按可持续降档。**

Press the small button and the large button on the right - hand to shift to a lower gear (towards a smaller cog).

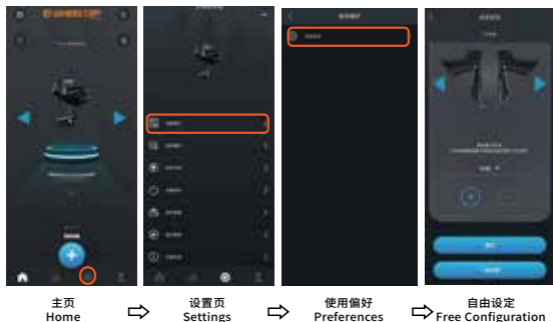
Each press causes the indicator light to flash once.

**Long-press for continuous down-shifting.**

# 变速器换挡 Shifting Operations

## 自由设置 Free Configuration of Shifting

请使用APP查看, 通过点击设置选择中的“使用偏好”-“自由设置”。  
Please use the APP to view, by clicking "Use preferences" - "Free Settings" in the Settings selection.



### 注意事项 Precautions

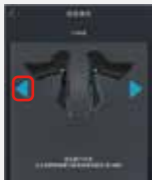
1. 请在每一次修改后点击确认按钮!  
1. After any modifications, ensure you press the confirm button.

## 变速器换档 Shifting Operations

### 自由设置 Free Configuration of Shifting

先选择需要更改功能的按键，再选择需要设定的功能，然后点击确认按键。

First, select the button for which you want to change the function, then select the function you want to set, and finally click the confirmation button.



点击上侧方向按钮  
选择需要调整的按键

Click the upper directional button.  
Select the key that needs to be adjusted.



选择功能后，点击确认按钮，确认使用该功能  
注：确认完毕后，请按压对应按键测试功能是否正常。

After selecting the function, click the confirmation button to confirm the use of this function.  
Note: After confirmation, please press the corresponding button to test whether the function is normal.

### 注意事项 Precautions

1. 如遇更改错误或无法更改的情况，可尝试点击“一键还原”！
2. 默认为右手变-大按键-后拨升；右手变-大+小按键-后拨降；左手变-大按键-前拨循环换档。

1. In case of an incorrect change or an inability to change, you can try clicking "One-Key Restore"!  
2. By default, pressing the right - hand up - shift button moves the rear derailleur up; pressing both the right - hand up - shift button and the small button moves the rear derailleur down; Pressing the left - hand up - shift button causes the front derailleur to shift cyclically.

## 指示灯概述 Indicator Light Overview

### 双控手柄 Duo-control Lever



● 蓝色: 配对模式/微调模式  
Blue: Pairing mode/fine tuning mode

● 绿: 配对成功/换挡模式  
Green: Pairing Successful/Shift Mode

● 黄: 低电量  
Yellow: Low battery

● 红: 电量耗尽  
Red: The battery is empty

○ 白: 故障  
White: Faulty

### 前拨 Front derailleur



A. 状态LED灯  
A. Status LED

B. 电池LED灯  
B. Battery LED

● 蓝色: 配对模式/微调模式  
Blue: Pairing mode/Micro-adjustment mode

● 绿: 配对成功/换挡模式  
Successful pairing/Shifting mode

● 红: 电量耗尽  
Red: Battery depleted

### 后拨 Rear derailleur



A. 状态LED灯  
A. Status LED

B. 电池LED灯  
B. Battery LED

● 黄: 低电量  
Yellow: Low battery

● 红: 电量耗尽  
Red: Battery depleted

● 红: 正在充电  
Red: Charging

## 维修保养 Maintenance

### 双控手柄电池 Duo-control Lever Battery

扒开手柄胶套，取下电池盖，取下用过的电池。将新的CR2032电池装入手柄，再将电池盖扣上拧紧，还原胶套。

Peel off the handle grip sleeve, remove the battery cover, and take out the used battery. Insert a new CR2032 battery into the handle, then snap the battery cover back on and tighten it. Finally, restore the grip sleeve.

### 配件更换 Accessory replacement

后拨链器或双控手柄单独损坏，需要更换时参考“变速系统安装”  
更换双控手柄、前拨链器时，只需将更换的配件与后拨重新配对；更换后拨时，所有配件都需要与后拨重新配对，配对方式请参考“系统配对”。

When the rear derailleur or Duo-control Lever is damaged and needs to be replaced, refer to "Transmission System Installation".  
When replacing Duo-control Lever or the front derailleur, only repair the replaced accessory with the rear derailleur; when replacing the rear derailleur, all accessories need to be re-paired with the rear derailleur. For pairing methods, please refer to "System Pairing".

#### 注意事项

1. 双控手柄电池只能选用 CR2032。
2. 建议定期清理拨链器。
3. 拨链器的工作温度为-10°C—50°C。
4. 后拨链器和前拨链器电池为一体设计非专业人士请勿拆解。航空运输时需要拆解需找专业人士操作。

1. Only CR2032 can be used for Duo-control Lever batteries.
2. It is recommended to clean the derailleur regularly.
3. The working temperature of the derailleur is -10°C-50°C.
4. The rear derailleur and the front derailleur batteries are designed as one, and non-professionals should not disassemble them. When air transportation, it needs to be disassembled, and it needs to be operated by professionals.



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