

无线电子变速系统  
ELECTRONIC DERAILLEUR SYSTEM

EDS G<sup>e</sup>X

# 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!

## 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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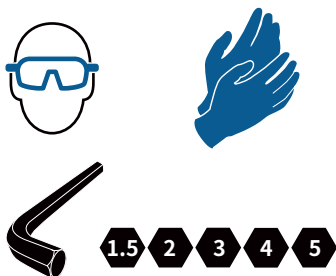
## 需要用到的工具 Tools Needed

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。

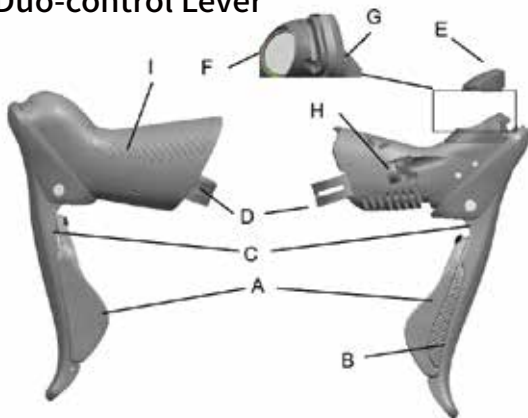
(1.5mm/2mm/3mm /4mm /5mm内六角扳手、手套、护目镜等)

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.

(1.5mm/2mm/3mm /4mm /5mm Allen wrench, gloves, goggles)



## 双控手柄 Duo-control Lever

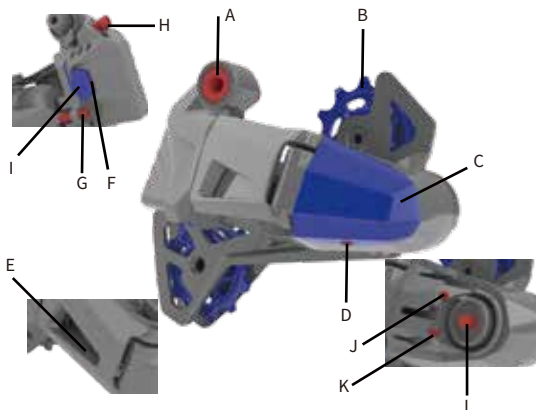


- A.大按键
- B.小按键
- C.刹车杆
- D.夹环
- E.电池盖
- F.电池座
- G.LED灯
- H.固定螺钉
- I.硅胶外套

- 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

# 后拨

## Rear Derailleurs



A. 安装螺丝

B. 导轮

C. 导链座挡盖

D. 挡盖固定螺丝

E. LED指示灯

F. 电池LED指示灯

G. 最大飞轮限位螺丝

H. 后拨张力螺丝

I. 防尘盖

J. 微调螺丝

K. 最小飞轮限位螺丝

L. 阻尼调节螺丝

A. Mounting screw

B. Guide wheel

C. Guide chain seat cover

D. Retaining screws for retaining cover

E. LED indicator light

F. Battery LED indicator light

G. Maximum sprocket limit screw

H. Pull the tension screws back

I. dust cover

J. Trim screws

K. Minimum sprocket limit screw

L. Damping adjustment screw

## 变速器充电

## Charging the Shifting System



## 后拨 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.

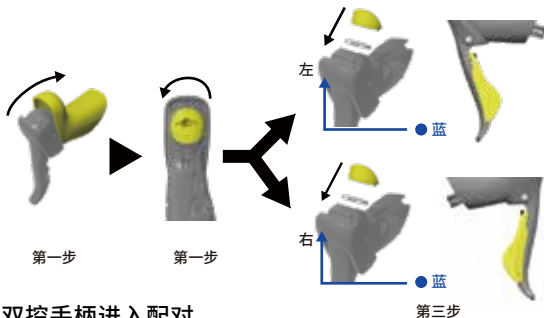
## 系统配对 System Pairing



● 蓝

### 后拨进入配对

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，指示灯蓝色闪烁，进入配对模式。

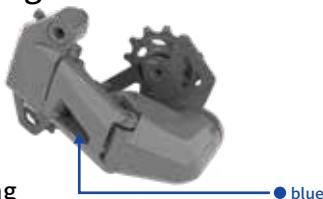


### 双控手柄进入配对

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。

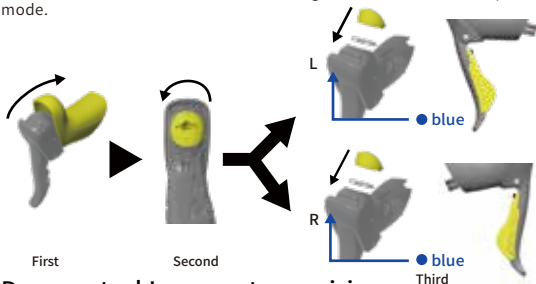
**注意：若未闪烁蓝灯请重复此操作，当进入配对模式后，若30秒后未进行配对操作自动退出该模式。**

## 系统配对 System Pairing



### Enter the pairing

Remove the rear dial dust cover and connect the magnetic connector of the charging cable connected to the power supply to the magnetic connector of the rear dial. The indicator light flashes blue to enter pairing mode.



### Duo-control Lever enters pairing

Unscrew the left/right hand shifter battery cover, press and hold the manual shifter button, install the battery until the manual indicator light Blinking blue to enter pairing mode.

**Note: If the blue light does not flash, please repeat this operation. When entering pairing mode, if pairing is not performed after 30 seconds, the mode will be automatically exited.**

## 系统配对 System Pairing

第一步



● 蓝



● 蓝

第二步

连接/配对



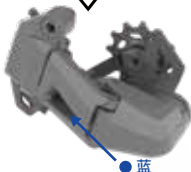
● 绿



● 绿



第三步



● 蓝

## 后拨、双控手柄配对

第一步 后拨、双控手变进入配对状态 (请按“后拨进入配对、双控手柄进入配对”进行操作)

第二步 单一手柄配对成功后,后拨及手变指示灯闪烁绿灯,而后后拨继续进入配对模式,持续闪烁蓝灯,继续进行手柄配对 (左右手柄需单独进行配对)

第三步 配对完成后,已配对成功的设备蓝灯快闪5下

**注意:按下任意变档按键5秒,可退出配对模式。**

## 系统配对 System Pairing

First



● blue



● blue

Second

Connect/pai



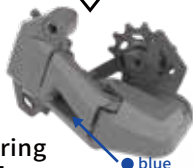
● green



● green



Third



● blue

## Dual joystick pairing

**First** Back dial and dual control hand change enter pairing state (please press "back dial to enter pairing, Duo-control Lever to enter pairing" to operate)

**Second** After a single handle is successfully paired, the backward dial and manual change indicators flash green, and then the backward dial continues to enter the pairing mode, and the blue light continues to flash to continue the handle pairing (the left and right handles need to be paired separately)

**Third** After the pairing is completed, the blue light of the successfully paired device flashes 5 times

**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.

## 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. 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。
3. 在配对过程中出现错误操作, 需重新进行配对操作。
4. 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。
5. 为提高配对成功率, 配对顺序需要按照用户手册严格执行。
6. 开始配对后一段时间没有操作会自动退出配对模式。
7. 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。
8. 批量配对时, 建议用APP依次扫码配对。
9. 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. 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.
3. If an incorrect operation occurs during the pairing process, you need to repeat the pairing operation.
4. 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 hanged, all accessories need to be re-paired.
5. In order to improve the success rate of pairing, the pairing sequence must be strictly followed according to the user manual.
6. If there is no operation for a period of time after starting pairing, it will automatically exit the pairing mode.
7. If there are multiple transmissions around, please pair them one by one and do not operate other transmissions during this period.
8. When performing batch pairing, it is recommended to pair them one by one using the APP to scan the code.
9. 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

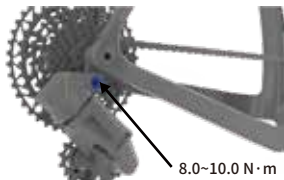
6.0-8.0N·m



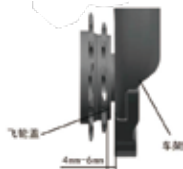
5

### 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)。



8.0~10.0 N·m



5

### 后拨

选用5mm的内六角扳手将变速器安装到车架吊钩上，选用合适的链条交替穿过变速器的两个导轮。

后下叉内侧平面与飞轮最小齿片外侧侧面间距保持4-6mm时变速器性能为最佳。

### 注意事项

1. 安装螺丝锁紧扭矩8.0-10 N·m (RD) / 6.0-8.0N·m (ST)。
2. 如果拧紧操作不正确,可能导致以下的现象:吊钩孔的变形;安装或拆卸无法进行;欠佳变速性能。
3. 请勿在安装螺柱或吊钩螺纹孔涂抹润滑脂。
4. 链条选用不正确会导致变速可靠性降低,严重时可能导致故障。
5. 变速器兼容10-52T飞轮。

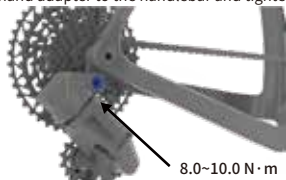
## 变速系统安装 Gear System Installation

6.0-8.0N·m

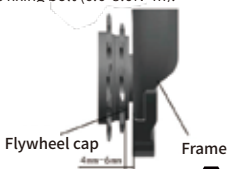


### Duo-control Lever

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 bolt (6.0-8.0N·m).



8.0~10.0 N·m



Flywheel cap

Frame

### Rear Derailleur

Use a 5mm Allen wrench to install the transmission on the frame hook, and use a suitable chain to alternately pass through the two guide wheels of the transmission.

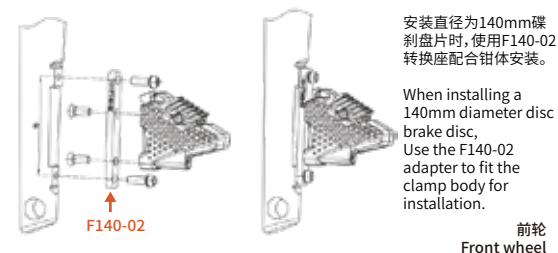
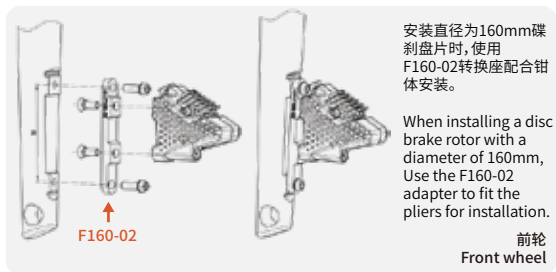
The transmission performance is optimal when the distance between the inner plane of the rear lower fork and the outer side of the minimum tooth blade of the flywheel is maintained by 4-6 mm.

### Precautions

1. Mounting screw tightening torque is 8.0-10 N·m (RD) / 6.0-8.0N·m (ST).
2. If the tightening operation is incorrect, it may lead to the following phenomena: deformation of the hook hole; Installation or disassembly cannot be carried out; Poor variable speed performance.
3. Do not apply grease to the threaded hole of the mounting stud or hook.
4. Incorrect chain selection will reduce the reliability of speed change, which may lead to failure in serious cases.
5. The transmission is compatible with 10-52T flywheel.

## 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

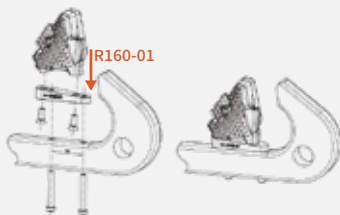


注意箭头和文字方向!

Pay attention to the arrows and text directions!

## 制动系统安装 Brake System Installation

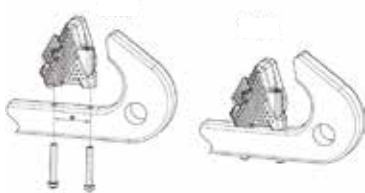
### 后-制动钳体安及转换座安装 Rear-brake caliper body safety and adapter mounting



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

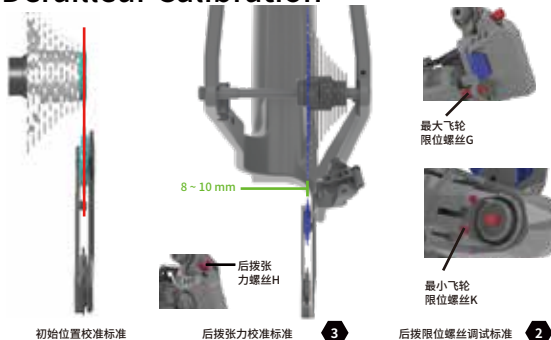


注意箭头和文字方向!

Pay attention to the arrows and text directions!

# 变速器校准 Derailleur Calibration

调试标准  
Adjustment Methods



## 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

后拨变档至最大飞轮处,调节“后拨张力螺丝H”,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

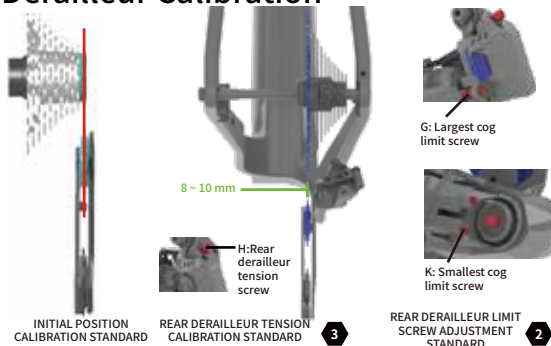
注:“初始校准后”(建议使用“A.微调螺丝方式”)&“后拨张力校准”调整完毕后,方可进行以下操作!

1. 将后拨切换到最小飞轮(1档位),调整“最小飞轮限位螺丝K”,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G”,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

调试标准  
Adjustment Methods

## Deraillieur Calibration



## Rear Deraillieur Calibration

## Initial Position Calibration Standard

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

## Rear Deraillieur Tension Calibration Standard

Shift the rear deraillieur to the largest cog. Adjust the "Rear Deraillieur Tension Screw H" 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.

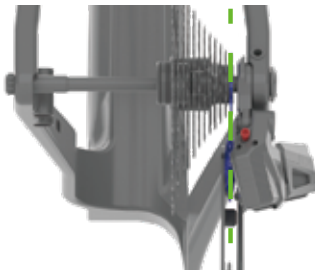
## Rear Deraillieur Limit Screw Adjustment Standard

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

1. Shift the rear deraillieur to the smallest cog (1st gear) and adjust the "Smallest Cog Limit Screw K" until it lightly touches the limit point. Then, back the screw off by 1/4 turn.
2. Shift the rear deraillieur to the largest cog and adjust the "Largest Cog Limit Screw G" until it lightly touches the limit point. Back the screw off by 1/4 turn.
3. Test shifting to confirm smooth operation. If the deraillieur 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

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



第一步

第二步



1.5

2

### 后拨链器初始校准

第一步 使用1.5mm内六角扳手解锁挡盖固定螺丝D,向前推动导链座挡盖C。

第二步 操作最小飞轮限位螺丝K,调整至后拨**上导轮中心与最小飞轮齿片中心对齐**。

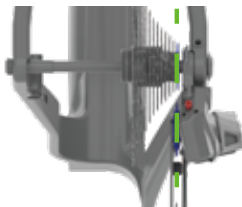
第三步 将导链座挡盖C安装回原位,锁紧挡盖固定螺丝D。

### 注意事项

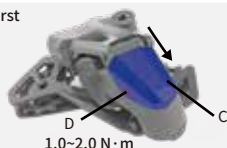
1. 调试时请确保后拨档位处于最小飞轮(1档位)位置!
2. 请持续转动链轮,否则可能损伤变速器。
3. 请勿在骑行过程中,进行初始校准!

## 变速器校准 Derailleur Calibration

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



First



1.5

Second



2

### Initial calibration of rear derailleur

Step 1: Use a 1.5mm hex key to unlock the cover fixing screw D, and then push the chain guide cover C forward.

Step 2: Operate the limit screw K for the smallest sprocket to adjust **until the center of the guide pulley on the rear derailleur is aligned with the center of the teeth of the smallest sprocket.**

Step 3: Reinstall the chain guide cover C in its original position and tighten the cover fixing screw D.

### Precautions

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

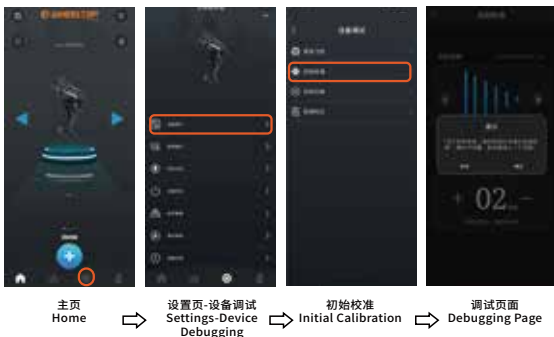
## 变速器校准

B.APP方式  
B.App-Based Adjustment

## Deraillieur Calibration

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."



## 注意事项 Precautions

1. 调试时请确保后拨档位于最小飞轮 (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. Make sure that the rear deraillieur is set to the position of the smallest cassette(1 gear) during debugging!
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.

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！
- 2.调试完毕后，请轻拧旋紧“最小飞轮限位螺丝K”。

- 1.Please ensure the rear derailleur is in the position of the smallest cassette(1 gear)!
- 2.After the debugging is complete,please gently tighten the"smallest cassette limit screw K".

## 变速器校准 Derailleur Calibration

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

第一步



此处可借力抵住大按键，以防误触。



LEGEND-1

第二步



LEGEND-2

### 后拨链器初始校准

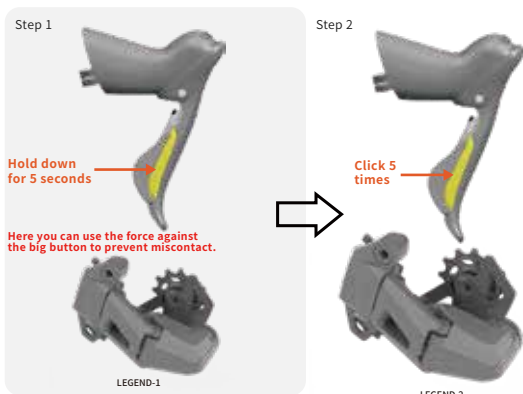
1. 长按小按键5秒 后拨指示灯亮起。(LEGEND-1)
2. 后拨指示灯亮起的3秒内，单击小按键5次进入“初始位置校准”后拨指示灯蓝色常亮。(LEGEND-2)

### 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！
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”。

# 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)

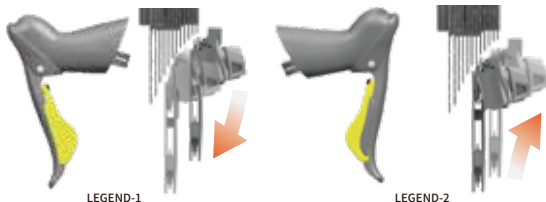
Step 2: Click the small button 5 times to enter the "Initial Position Calibration" within 3 seconds after the light is on. The rear switch indicator is steady blue. (LEGEND-2)

## Precautions

1. Make sure that the rear derailleur is set to the position of the smallest cassette(1 gear) during debugging!
2. Please keep turning the chainwheel continuously, otherwise the transmission may be damaged.
3. Do not perform initial calibration while riding!
4. It is recommended to use the "A. Fine-tuning screw method" preferentially.

## 变速器校准 Derailleur Calibration

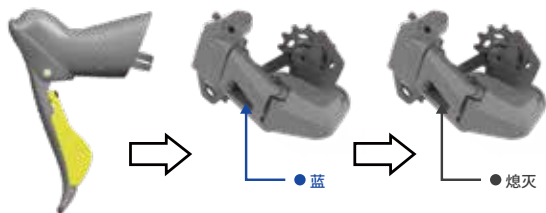
C.手柄微调方式  
C.Handle  
Micro-Adjustment



### 后拨链器初始校准

按下右手变大按键，后拨朝大齿片方向运动 (LEGEND-1)；  
按下左手变大按键，后拨朝小齿片方向运动 (LEGEND-2)。  
按住左手变大按键3秒，退出初始校准模式。

**将后拨链器上导轮中心与最小齿轮中心对齐。**

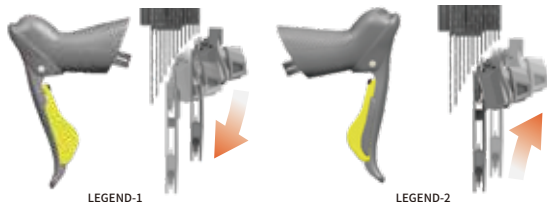


### 退出初始校准

按压左手大按键，退出该模式。

## 变速器校准 Derailleur Calibration

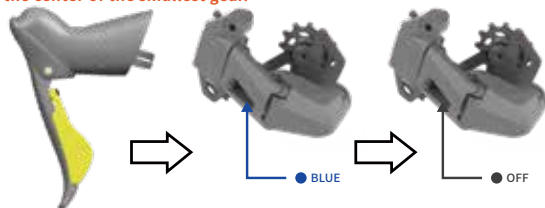
C.手柄微调方式  
C.Handle  
Micro-Adjustment



### Initial position calibration of rear puller

Press the right-hand enlargement button, and move backward towards the large teeth (LEGEND-1);  
Press the left hand enlargement button, and move backward towards the small teeth plate (LEGEND-2).  
Press the left hand enlarge button for 3 seconds to exit the initial calibration mode.

**Align the center of the upper guide wheel of the rear derailleur with the center of the smallest gear.**



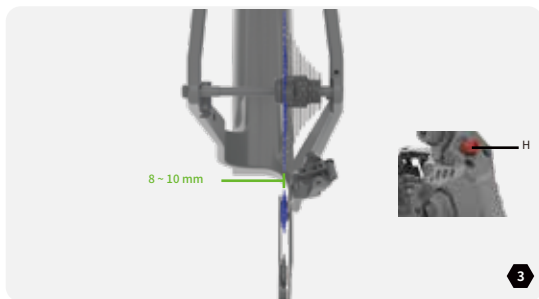
### Exit initial calibration

Press the left hand button to exit the mode.

# 变速器校准

## Deraillleur Calibration

后拨张力螺丝调节  
Pull back tension  
screw adjustment



LEGEND-1



LEGEND-2

**注：请确保完成“初始位置校准”后再进行此操作！**

**1.Ensure the "Initial Position Calibration" is completed before proceeding.**

操作**后拨**变档至**最大飞轮齿片**处，调节**后拨张力螺丝H**直到**上导轮与最大飞轮齿片**距离约为**8~10mm**。

2.Shift the rear deraillleur to the largest cog.

Adjust the Rear Deraillleur Tension Screw H until the distance between the upper pulley and the largest cog is approximately 8-10mm.

向前调节**后拨张力螺丝H**，**后拨上导链轮与最大齿轮**逐渐远离（LEGEND-1）

向后调节**后拨张力螺丝H**，**后拨上导链轮与最大齿轮**逐渐靠近（LEGEND-2）

Forward Adjustment: Turn the Tension Screw H forward to move the upper pulley away from the largest cog (LEGEND-1).

Backward Adjustment: Turn the Tension Screw H backward to move the upper pulley closer to the largest cog (LEGEND-2).

## 变速器校准 Derailleur Calibration

限位螺丝调节  
Limit Screw Adjustment



K

最小飞轮限位螺丝



G

最大飞轮限位螺丝

### 最大/小飞轮限位螺丝

**注:请确保完成“初始位置校准”及“张力螺丝调节”后再进行此操作!**

操作后拨将其变档至最小飞轮处,调整最小飞轮限位螺丝K,直至其轻轻接触到限位处,然后将螺丝回转1/4圈。

操作后拨将其变档至最大飞轮处,调整最大飞轮限位螺丝G,直至其轻轻接触到限位处,然后将螺丝回转1/4圈。

### 注意事项

- 1.“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。
- 2.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。
- 3.推荐使用“A.微调螺丝方式”。
- 4.请勿在骑行过程中使用“初始位置校准”
- 5.请务必正确调整最大/最小飞轮限位螺丝!

## 变速器校准

限位螺丝调节  
Limit Screw Adjustment

## Derailleur Calibration



K

Minimum flywheel limit screw



G

Maximum flywheel limit screw

Maximum/small flywheel limit screw

**Note: Please make sure to complete the "initial position calibration" and "tension screw adjustment" before performing this operation!**

After operation, shift it to the minimum flywheel position, adjust the minimum flywheel limit screw K until it gently touches the limit position, and then turn the bolt 1/4 turn.

After operation, shift it to the maximum flywheel position, adjust the maximum flywheel limit screw G until it gently touches the limit position, and then turn the bolt 1/4 turn.

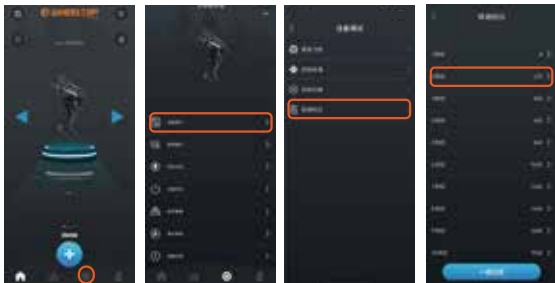
**Precautions**

1. The "Initial Position Calibration" function can finely adjust the shaft distance between the transmission and the sprocket wheel (0.2mm each time), which can optimize the performance of the transmission and improve the smoothness of shifting.
2. Be sure to turn the sprocket when adjusting the transmission, otherwise the transmission may be damaged.
3. It is recommended to use "A. Fine Adjustment Screw Method".
4. Do not use "Initial Position Calibration" during riding
5. Make sure to adjust the maximum/minimum flywheel limit screws correctly!

## 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  
1. Use the +/- buttons to change the value
  2. 点击数值, 直接输入修改的数值  
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



### 升档/加档操作 Upshift operation

按下左手变大按键，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 left hand big gear 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 right-hand big gear button to shift to a lower gear (towards a smaller cog).

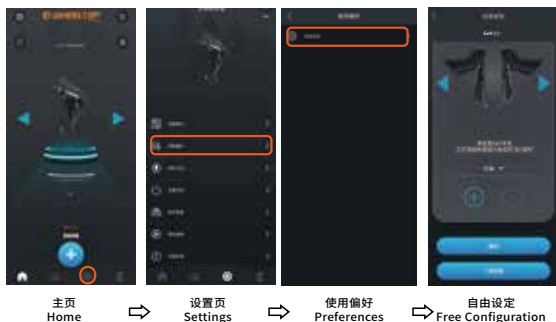
Each press causes the indicator light to flash once.

**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

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

# 变速器换挡 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

- 如遇更改错误或无法更改的情况, 可尝试点击“一键还原”!
- 默认为右手变-大按键-后拨降档; 左手变-大按键-后拨升档。
- In case of an incorrect change or an inability to change, you can try clicking "One-Key Restore"!
- By default, the large button is for rear derailleur upshifting, and the small button is for rear derailleur downshifting.

## 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

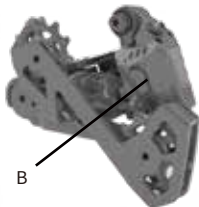
■ 黄: 低电量  
Yellow: Low battery
- 红: 电量耗尽  
Red: The battery is empty

■ 白: 故障  
White: Faulty

## 后拨 Rear derailleur



A

A. 状态LED灯  
A. Status LEDB. 电池LED灯  
B. Battery LED

B

- 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

● 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”

更换双控手柄时，只需重新配对更换的配件；更换后拨时，所有配件需要重新配对请参考“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, only re-pair the replaced accessories; when replacing the rear derailleur, all accessories need to be re-paired.

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℃——50℃。
4. 后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 the 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 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.





Since 1951