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Congratulations on your Full Speed Ahead product. Please read these instructions and follow them for correct use. Failure to follow the warnings and instructions could result in damage to product not covered under warranty, damage to bicycle; or cause an accident resulting in injury or death. Since specific tools and experience are necessary for proper installation, it is recommended that the product be installed by a qualified bicycle technician. FSA assumes no responsibility for damages or injury related to improperly installed components.

Important Information

A CAUTION

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

If your device endures electrostatic discharge, it may automatically reboot and disconnect current wireless transmission. You will need to manually reset the wireless connection when this happens.

Use your device in temperature between -5° C $\sim 40^{\circ}$ C. Exposing your device to extremely low or high temperatures may result in damage, malfunction, or even explosion.

FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- —Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.

FCC RF Exposure Information

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission for an uncontrolled environment.

ISED Compliance Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

CAN ICES-3(B)/NMB-3(B)

ISED RF Exposure Information

This equipment complies with Innovation, Science and Economic Development Canada RSS-102 RF exposure limits set forth for an uncontrolled environment.

ISED Informations sur l'exposition RF

Cet équipement est conforme aux limites d'exposition RF RSS-102 d'Innovation, Sciences et Développement économique Canada établies pour un environnement non contrôlé.

CE Compliance Statement

Maximum radio-frequency power transmitted in the frequency bands:

Model: FD-ED-8400

Bluetooth LE, 2400MHz~2483.5MHz: -5.8 dBm (e.i.r.p.)

ANT+, 2402MHz~2480MHz: -4.8 dBm (e.i.r.p.)

Model: SF-ED-8400

Bluetooth LE, 2400MHz~2483.5MHz: -4.1 dBm (e.i.r.p.)

ANT+, 2402MHz~2480MHz: -5.5 dBm (e.i.r.p.)

CE RF Exposure Information

This device meets the EU requirements and the International Commission on Non-Ionizing Radiation Protection (ICNIRP) on the limitation of exposure of the general public to electromagnetic fields by way of health protection.



Waste Electrical and Electronic Equipment (WEEE)

This symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Proper recycling of your product will protect human health and the environment.

Hereby, FSA srl declares that the radio equipment type [FD-ED-8400 and SF-ED-8400] is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: http://www.fullspeedahead.com/en/support/library/documentation

NCC 警語

本電池如果更換不正確會有爆炸的危險,請依製造商説明書處理用過之電池

₩ 廢電池請回收

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或 變更原設計之特性及功能。低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現 象時,應立即停用,並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Battery Warning

Battery

- 1. Be sure to use only with an FSA charger and follow charging instructions.
- 2. Do not crush and/or do not puncture the battery.
- 3. If the battery pack is stored for a long time, the battery pack's storage should be 7.8V~8.0V.
- 4. Charging

Charging Current

The charging current should be less than the maximum charge current specified in the Product Specification. Charging with a higher current than the recommended value may cause damage to cell/battery pack's electrical, mechanical, and safety performance and could lead to heat generation or leakage.

Charging Temperature

The cell should be charged within a 0°C~45°C (32°-113°F) range in the Product Specification.

Prohibition of Reverse Charging

Reverse charging is prohibited. The cell/battery pack should be connected correctly. The polarity has to be confirmed before wiring. In case the cell/battery pack is connected improperly, the cell/battery pack cannot be charged. Likewise, reverse charging may cause damage to the cell/battery pack which may lead to degradation of the cell/battery pack performance, affect the cell/battery pack safety and could cause heat generation or leakage.

5. Discharging

Discharging Current

The cell should be discharged at less than the maximum discharge current specified in the Product Specification. A high discharging current may reduce the discharging capacity significantly or cause over-heating.

Discharging Temperature

The cell should be discharged within a -20°C~60°C (-4°-140°F) range specified in the Product Specification.

Over-Discharging

It should be noted that the cell/battery pack would be in an over-discharged state by its selfdischarge characteristics if the cell/battery pack has not been used for long time. In order to prevent over-discharging, the (individual) cell should be charged periodically to maintain between 7.8V and 8.0V Over-discharging may cause loss of cell/battery pack performance, characteristics, or battery functions.

6. Storage

The cell/battery pack should be stored within a -10°C~45°C (14°-113°F) range.

7. Long Time Storage

If the battery pack is stored for a long time, the battery pack's storage should be 7.8V~8.0V.

Instructions for "long term storage":

- a. Long-term storage can accelerate battery self-discharge and lead to the deactivation of the batteries.
- To minimize the deactivation, store battery packs in a temperature range of -10°C~45°C (14°-113°F).
- b. When charging for the first time after long-term storage, deactivation of the packs may have led to decreased capacity.
- To recover the packs to original performance, repeat several cycles of fully charging and discharging.
- c. When storing the pack for more than 6 months, please charge at least once every 6 months to prevent leakage and deterioration in performance due to self-discharging.

8. Others

Do not drop, hit or bend the battery body.

Battery electrolyte is harmful

The battery should not have any electrolyte liquid visibly flowing. In case electrolyte comes into contact with the skin or eyes, flush/wash the electrolyte immediately with fresh water and immediately seek medical attention.

Prohibition of dumping of cells into fire

Never incinerate nor dispose of the cells in fire. This may cause a dangerous explosion and is prohibited.

Prohibition of cells immersion into liquid such as water

The cells should never be soaked with liquids such as fresh water, seawater, or drinks such as soft drinks, juices, coffee, etc.

Battery cells replacement

The battery replacement shall be done only by either the battery cell supplier or device supplier and never be done by the user.

Prohibition of use of damaged cells

The cells might become damaged during shipping by shock. If any abnormal features of the cells are found - such as damage to the plastic envelope of the cell, deformation of the cell package, smelling of electrolyte, electrolyte leakage or other abnormal appearance, the cells should not be used.

The cells with a smell of the electrolyte or a leakage shall be placed away from fire to avoid explosion.

介紹與所需工具

介紹

感謝您購買FSA產品,請詳細閱讀此安裝説明書並遵守正確使用規範。沒有遵從警告和説明書而損害產品是不在保固範圍內,如損害自行車、造成意外以致受傷或死亡。因需使用特殊工具並需要經驗才能安裝正確,建議由合格自行車技術員安裝。 FSA & Vision不承擔因不正確安裝產品造成損傷的責任。

所需工具

A CAUTION

FSA建議WE傳動系統需由合格自行車技術員安裝。 如下是正確安裝FSA WE系統所需的工具與必用品:



1.5mm 六角扳手



2mm 六角扳手



5mm 六角扳手



扭力扳手(2-14牛頓)



十字起子(PH2)



一字起子

FSA Cable tool

FSA 穿線工具



潤滑油

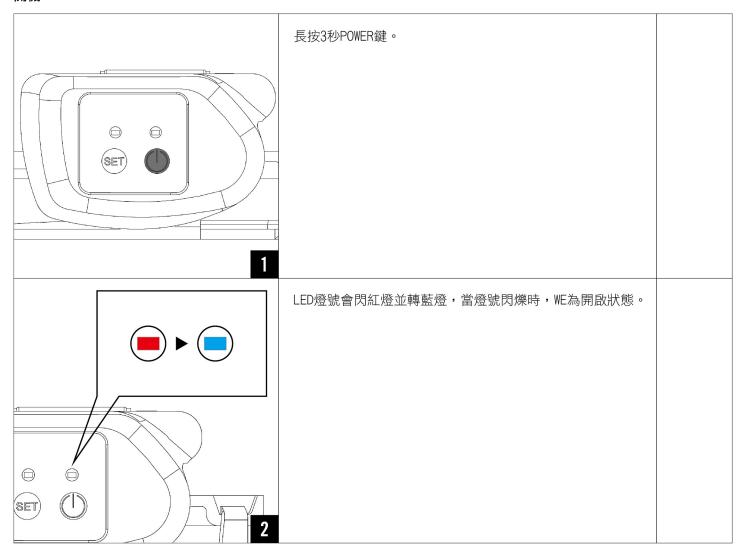


打鍊器(11速)

訊號配對

開機及關機

開機

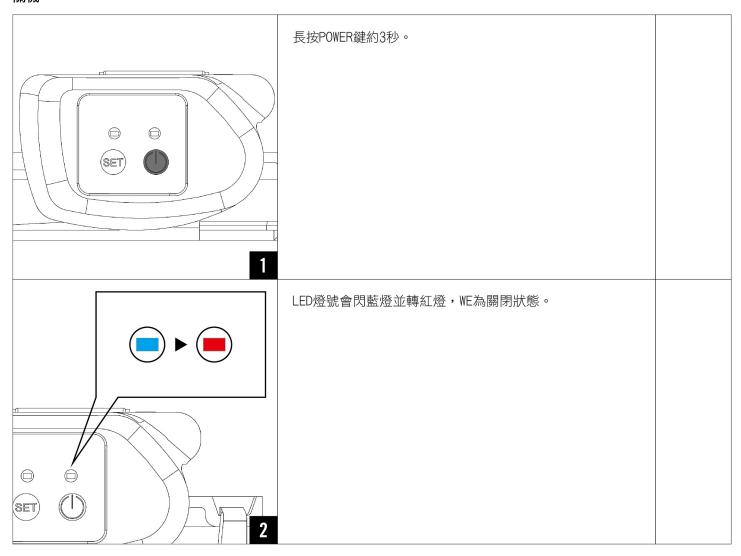


TIPS

在已開機狀態下,按壓左右變速把手的變速按鈕各一次以啟動連結。(在已配對的情況。)

開機及關機

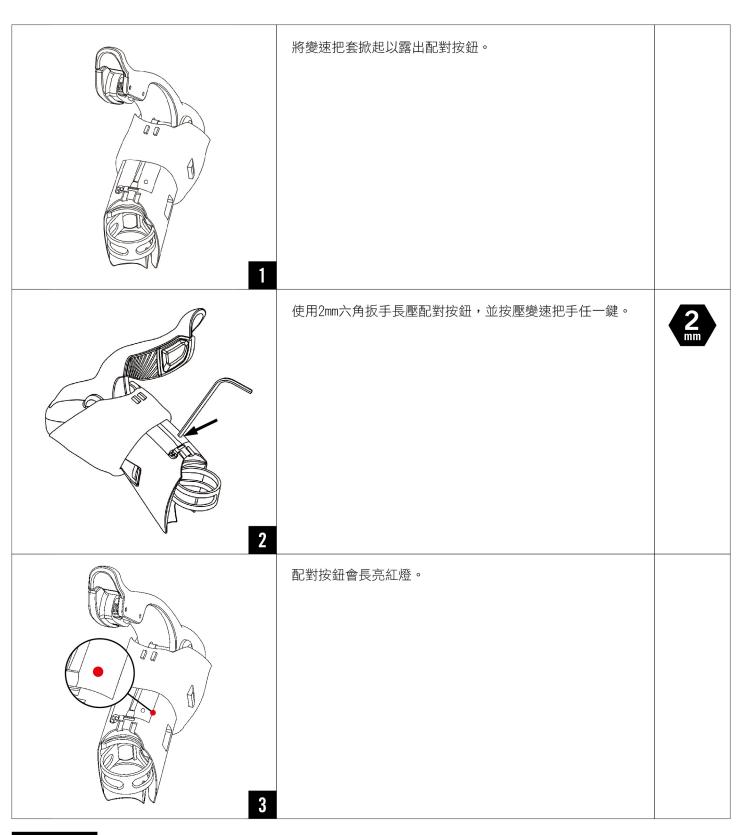
關機



TIPS

在電源開啟時不使用的狀態下,WE會處於待機狀態,在一段時間後自動關閉。 待機時間間隔可依使用者需要在WE的APP軟體中設定。

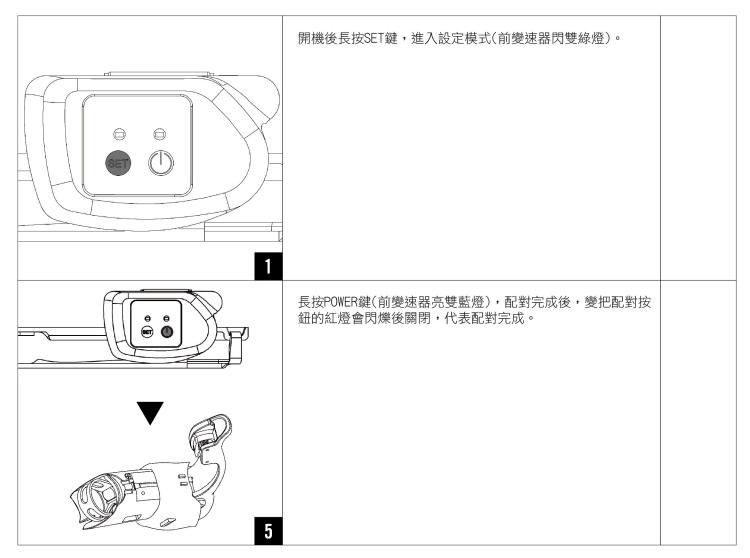
變把配對



TIPS

若先按變速按鈕再按配對按鈕會導致無法配對,必須靜待30秒後重新配對。

變把配對



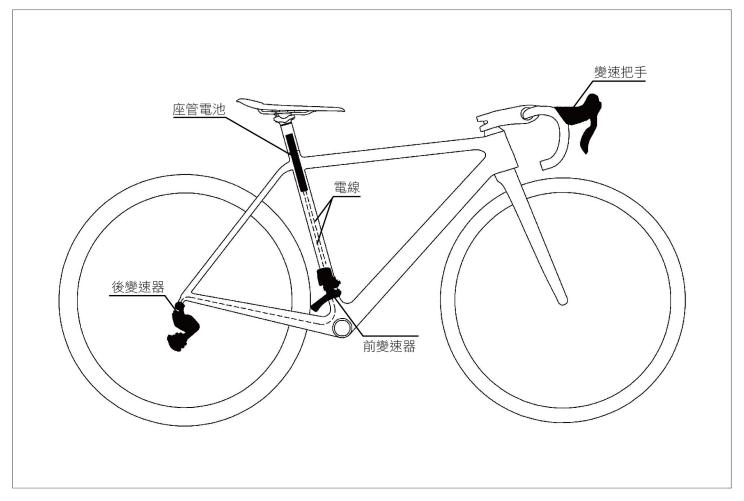
TIPS

重複上述步驟進行另一邊把手的配對。



各部件介紹

FSA K-FORCE WE是複合式電子傳動系統,此命名係因系統結合無線及有線的系統優勢。 實際上,變速把手與變速器的傳達是透過無線傳輸;而前、後變速器則是透過電源線連接。 傳動系統各零件説明如下:



變速把手:

變速把手與變速器透過無線傳輸訊號。以CR2032鈕扣電池供電,電池置於變速把手內。

座管電池:

主電池隱藏在座管中並透過電線連接前後變速器。

前變速器:

前變速器齒比落差極限為16T。

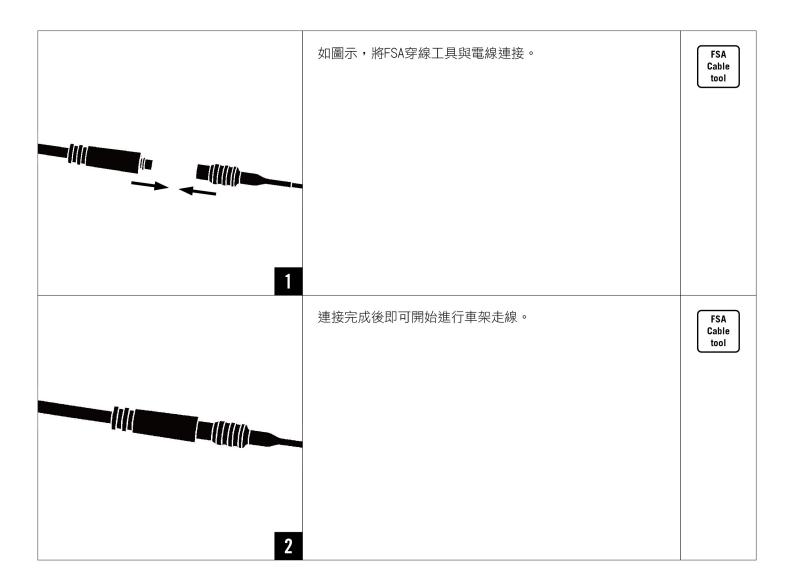
後變速器

後變速器可搭配WE K-FORCE飛輪使用,飛輪最大支援至32T。

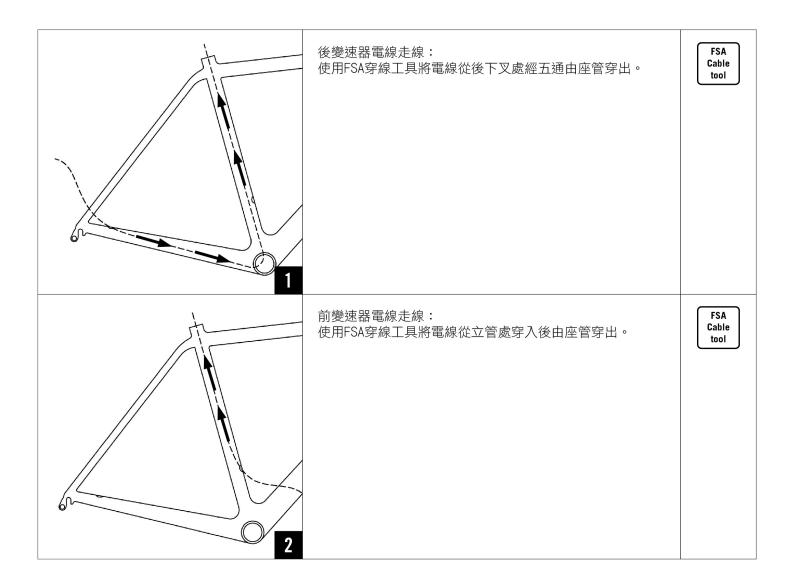
電線:

兩條電線隱藏於車架內分別連接前、後變速器。

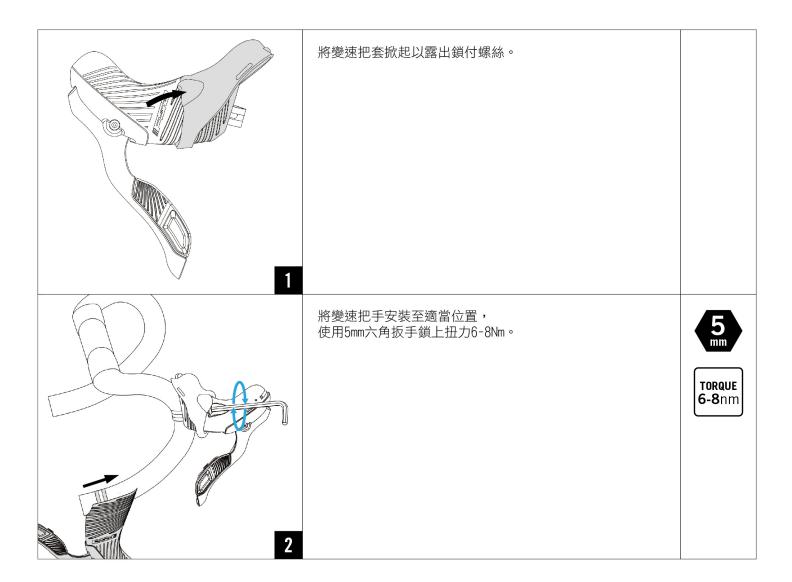
電線連接



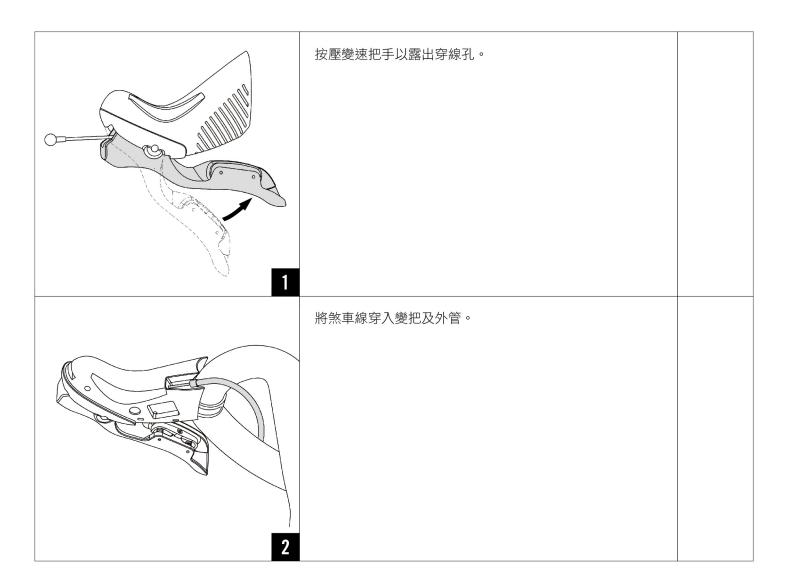
如何穿線



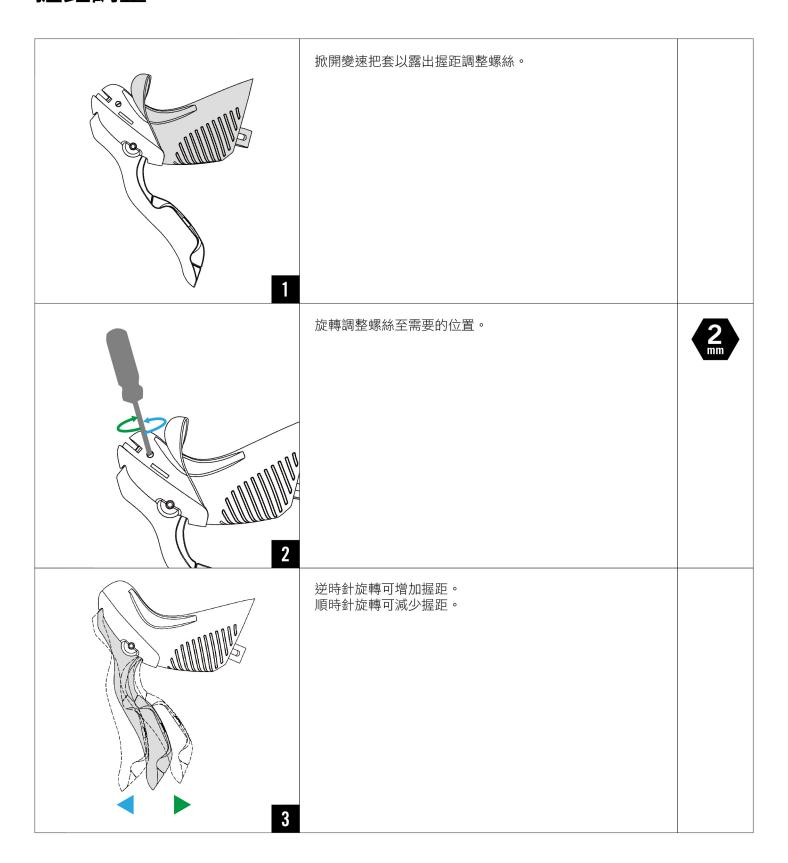
變速把手安裝



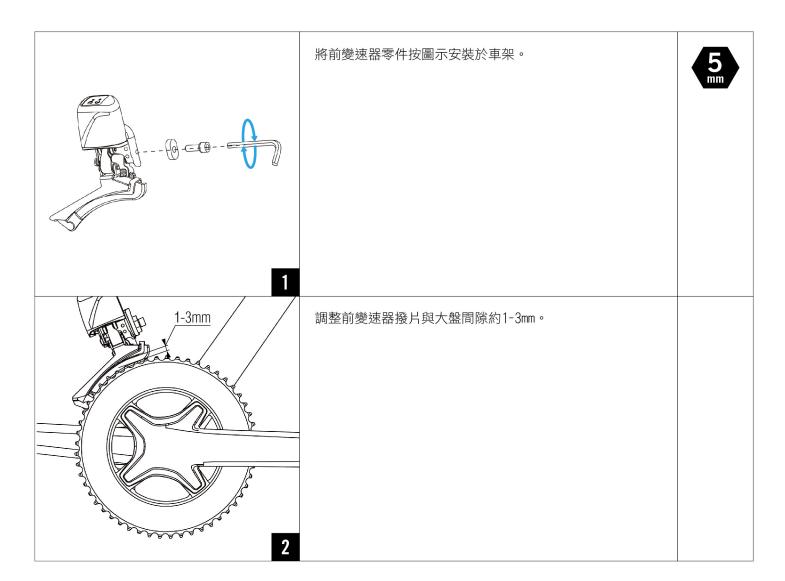
煞車線安裝



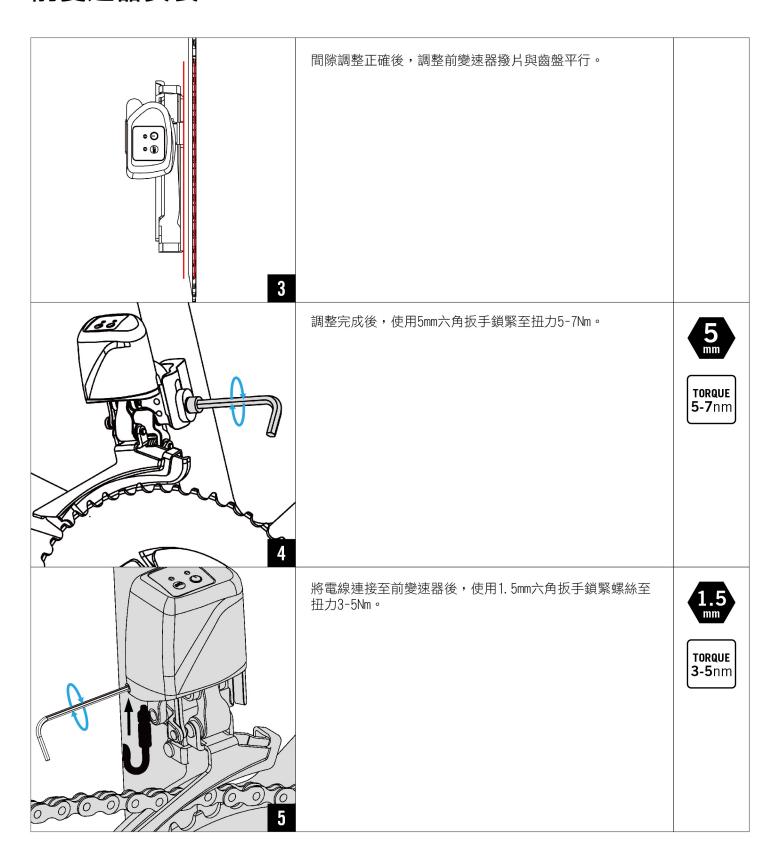
握距調整



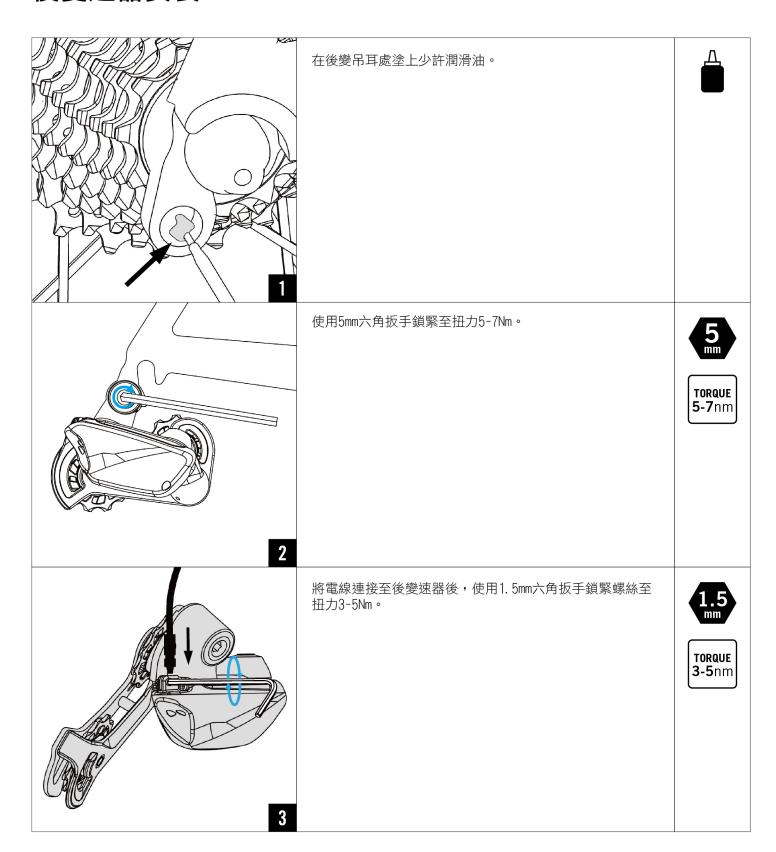
前變速器安裝



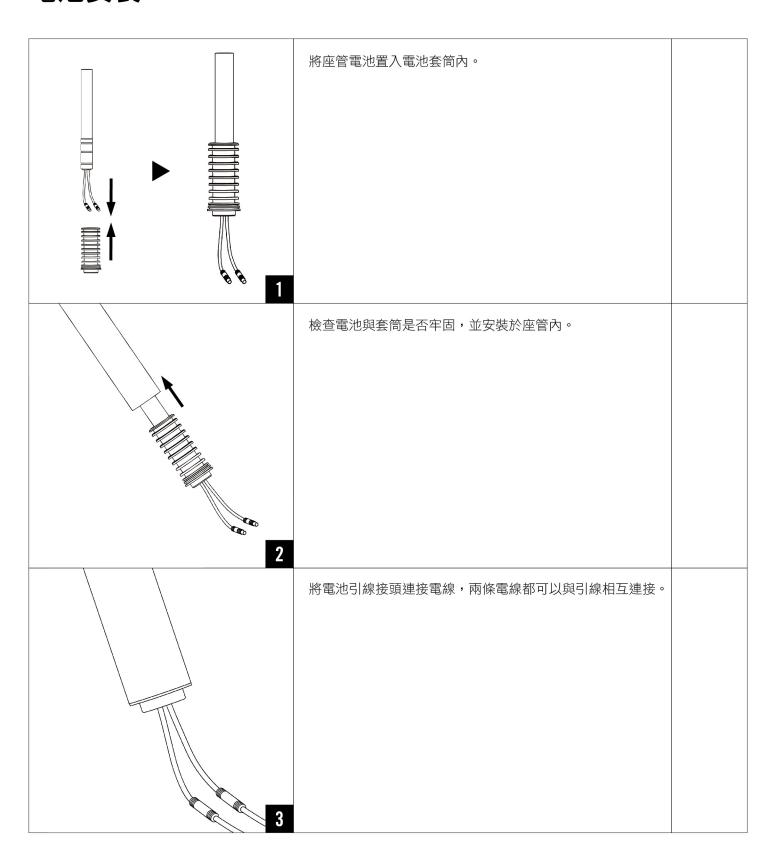
前變速器安裝



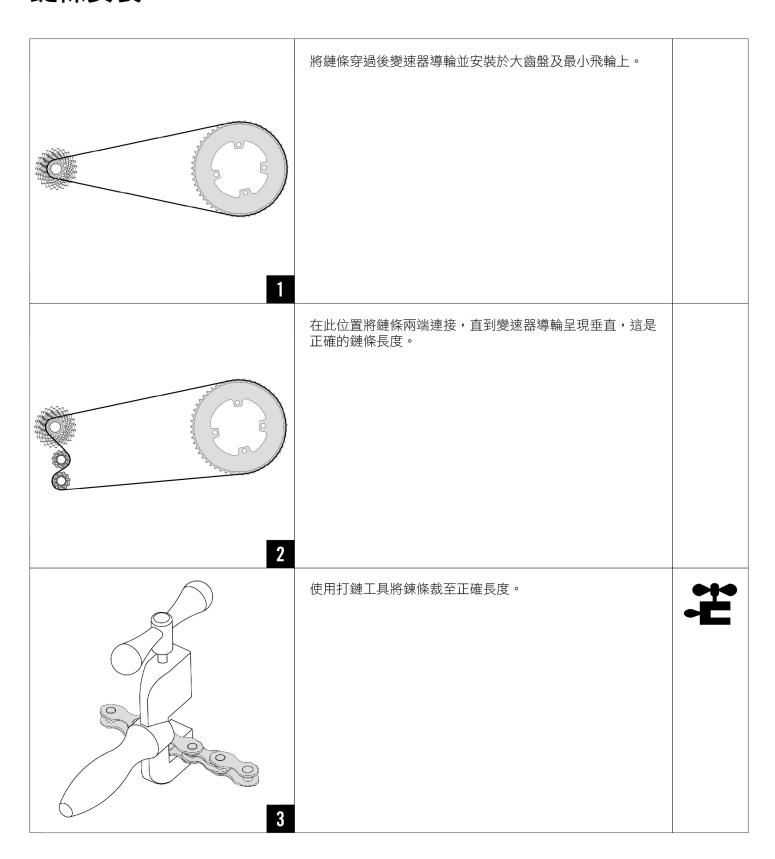
後變速器安裝



電池安裝

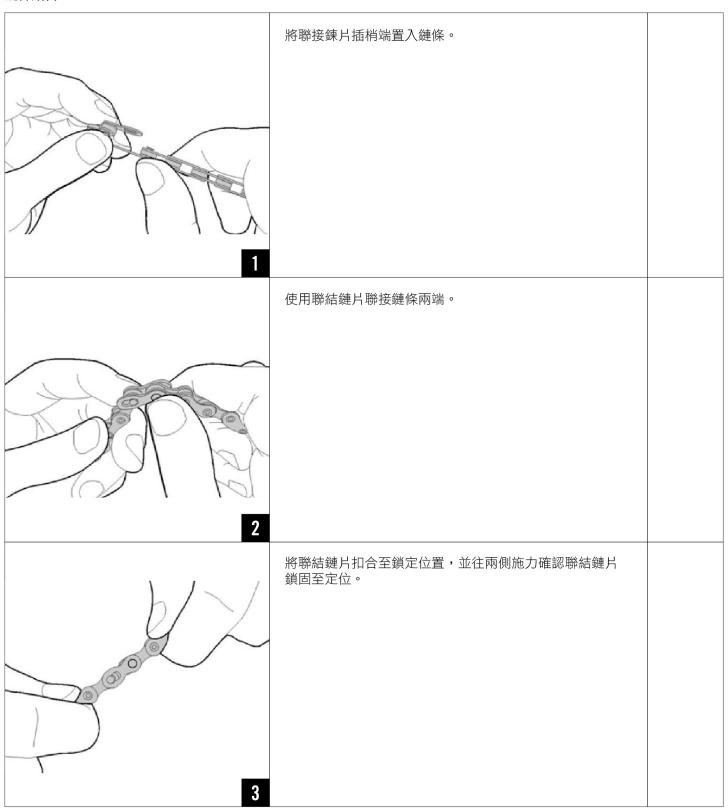


鏈條安裝



鏈條安裝

鏈條結合

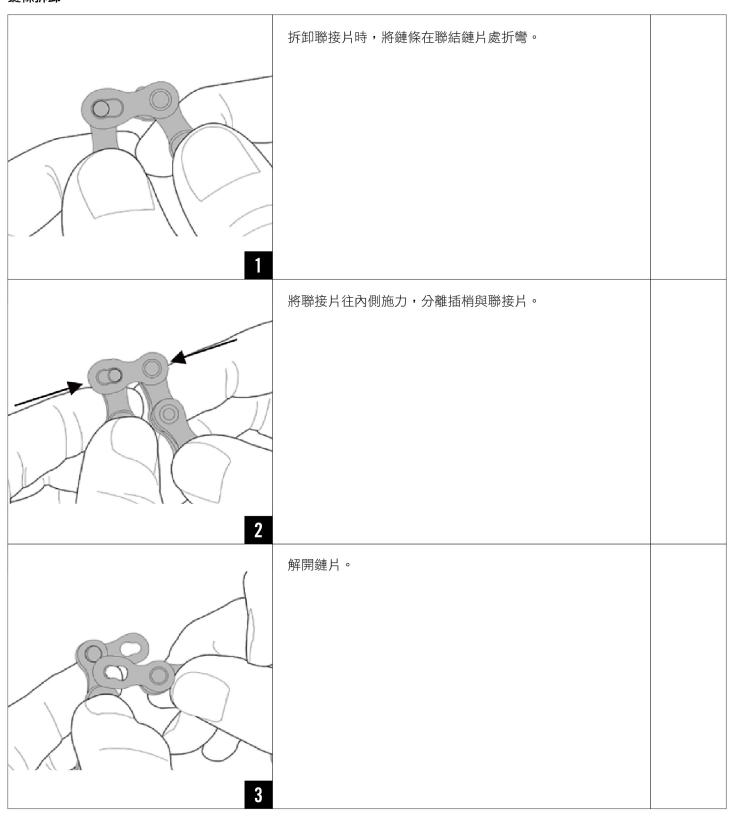


TIPS

使用前,請確保連接片確實鎖入定位。

鏈條安裝

鏈條拆卸

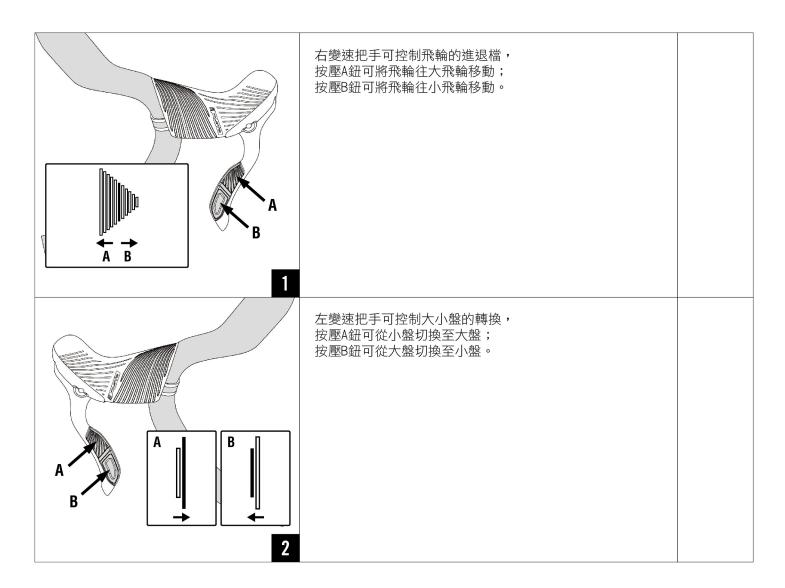


TIPS

聯結鏈片若已拆裝過,便不能重複再使用,必須使用新的聯結鏈片重新聯結。

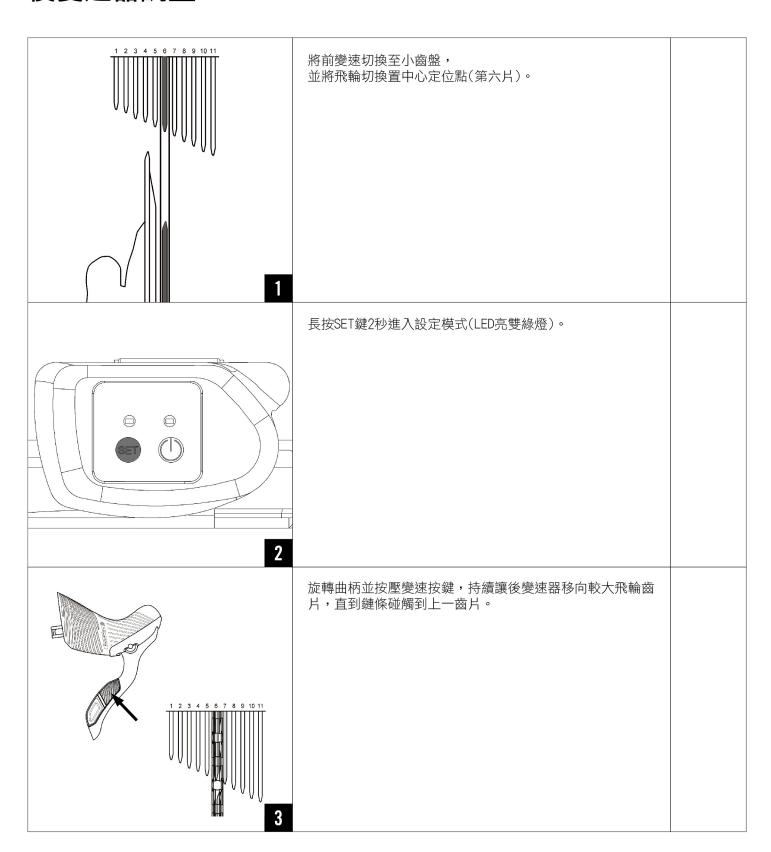
操作説明

檔位控制

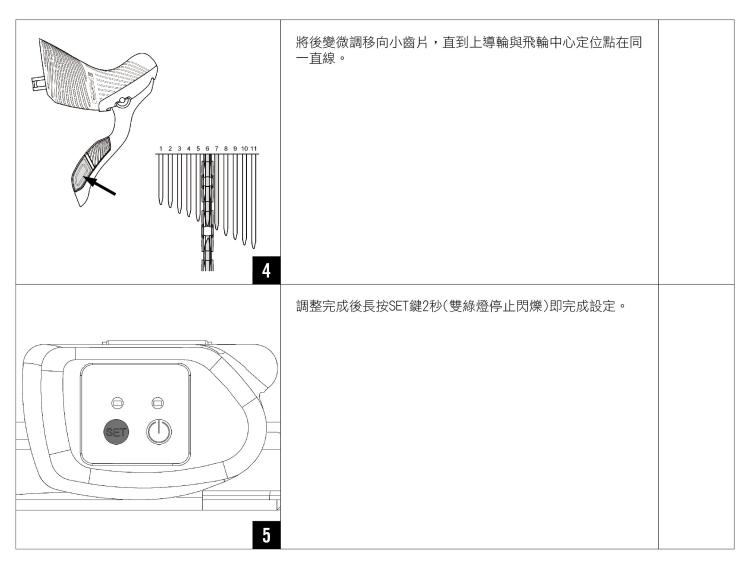


變速操作及調整説明

後變速器調整



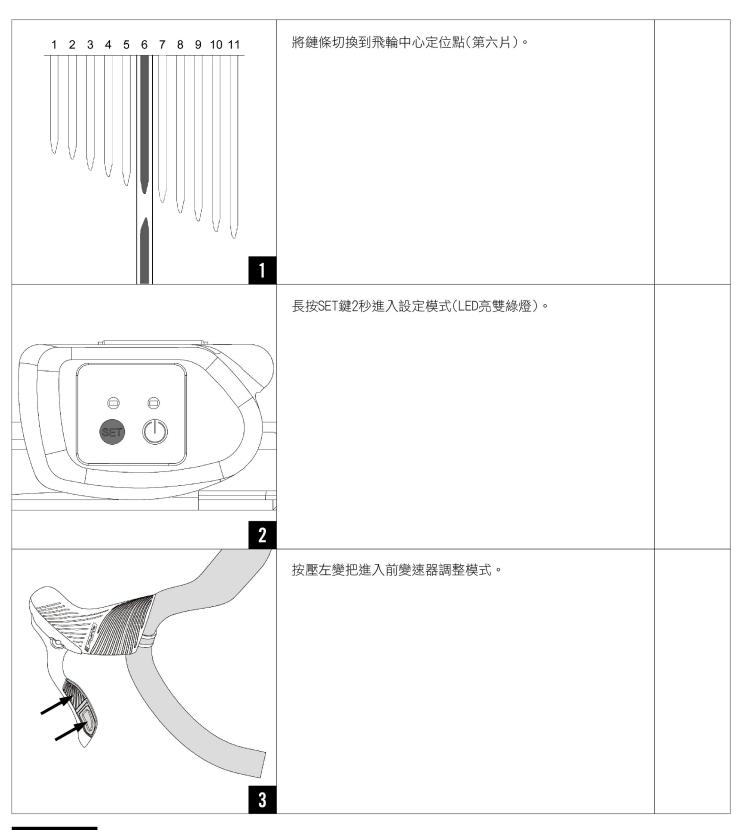
後變速器調整



TIPS

當SET鍵亮紅燈、POWER鍵亮綠燈時,代表後變速器接收錯誤或訊號遺失,請參閱第八章「燈號異常説明」。

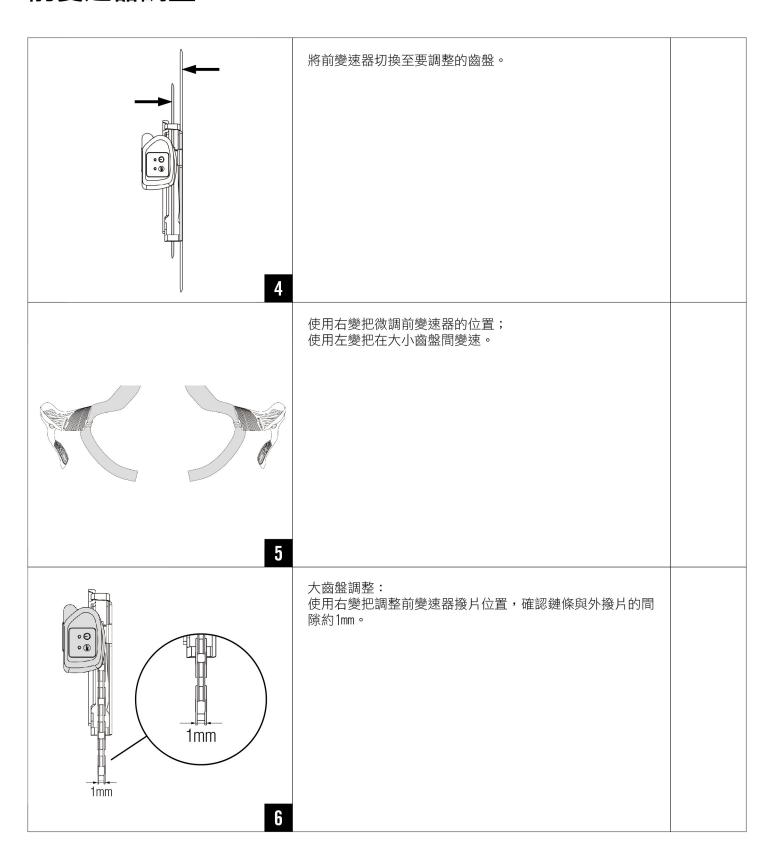
前變速器調整



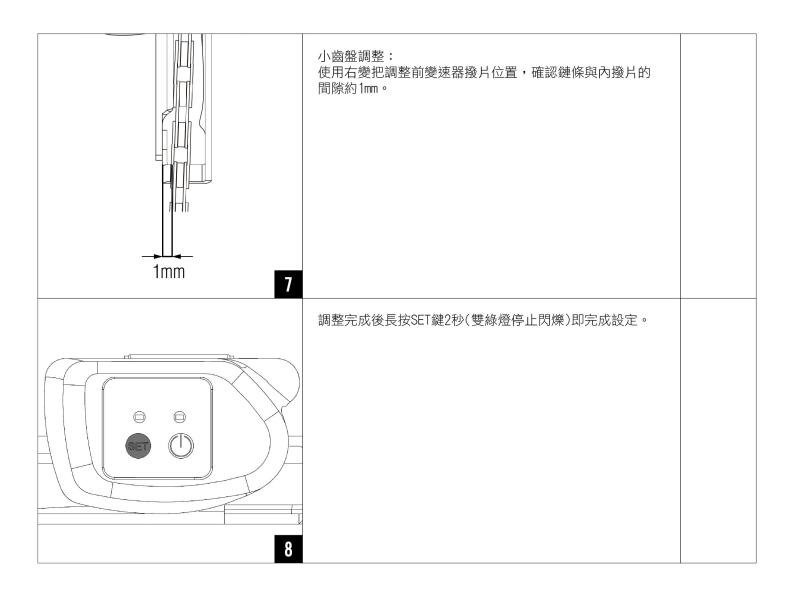
TIPS

按壓左變把進入前變速器調整模式是原廠預設值,您可以經由WE APP軟體進行更改。

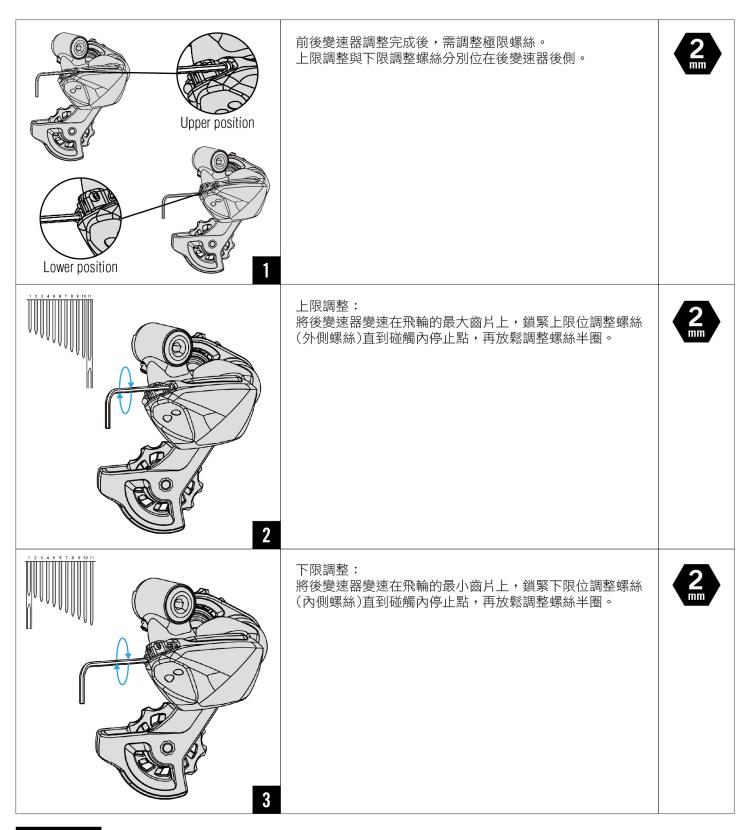
前變速器調整



前變速器調整



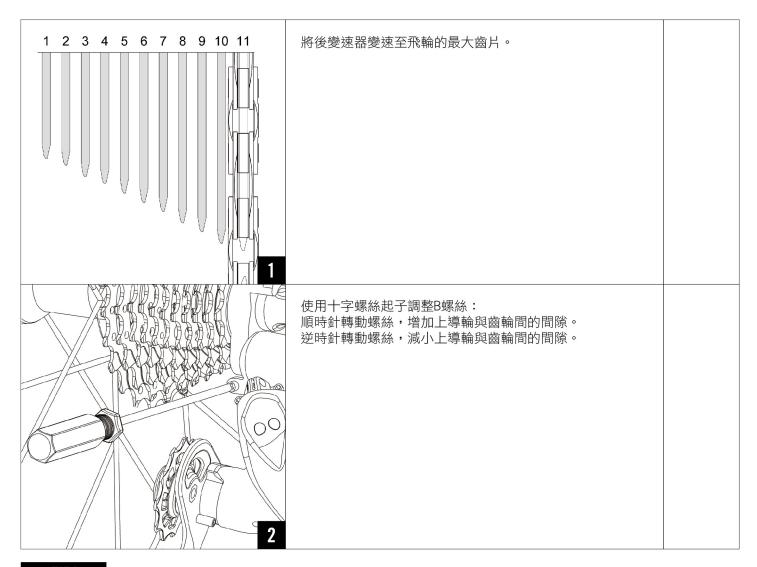
極限螺絲調整



TIPS

- 1. 不可過度鎖緊極限螺絲緊靠停止點,過緊可能會降低性能或損壞後變速器內部構件。
- 2. 過緊時LED燈號會亮雙黃燈。

B-張力螺絲調整

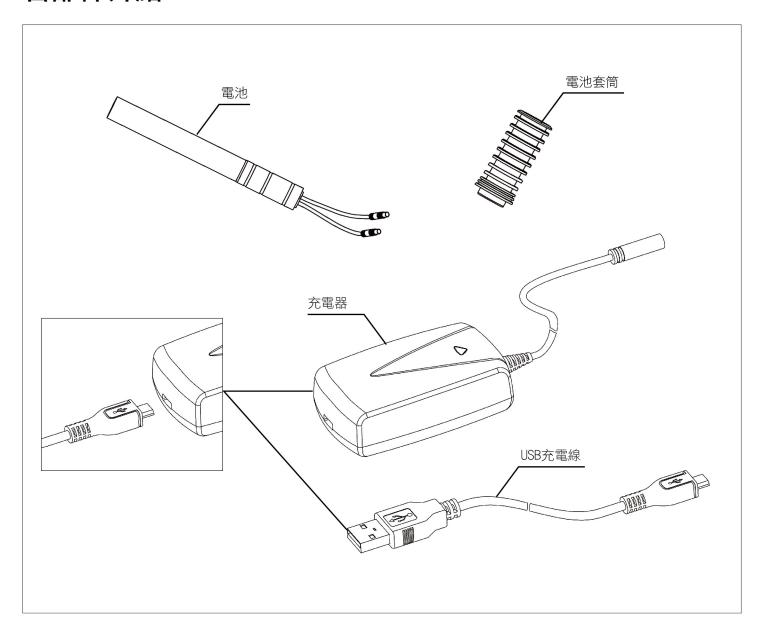


TIPS

- 1. B-張力螺絲調整,必須在所有變速器和限制螺絲調整完成後才設定。
- 2. B-張力螺絲的功用,為使上導輪和後飛輪之間的距離更適當。
- 3. 最佳的變速是調整上導輪儘可能靠近飛輪但不會碰觸飛輪。



各部件介紹



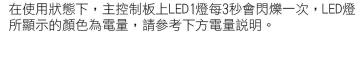
電池檢查

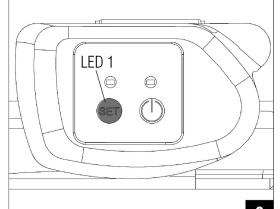


WE使用三個電池,主電池是前後變速器的供電源。每一變速把手都由一個CR2032鈕扣電池供電。

1

主雷池:





LED 2

.

變速把手電池:

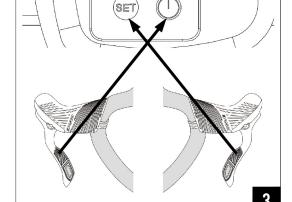
變速把使用CR2032鈕扣電池,不可充電。

當電池電量不足叔,請更換電池。沒有必要同時更換兩個電池,除非兩個電池都處於低電量。

每次按下變速按鈕時,主控制板上相應的LED燈都會閃爍。

LED 1燈閃為右變把;LED 2燈閃為左變把。

LED燈所顯示的顏色為電量,請參考下方電量説明。



LED 1

TIPS

LED顏色	電池電量	説明
	77-100%	電池電量充足。
	23-77%	電池電量正常。
\bigcirc	0-23%	電池電量即將用完,請儘速更換。
left	0%	電池電量已耗盡,變速將停止運作。

如何更換電池

變速把手電池更換

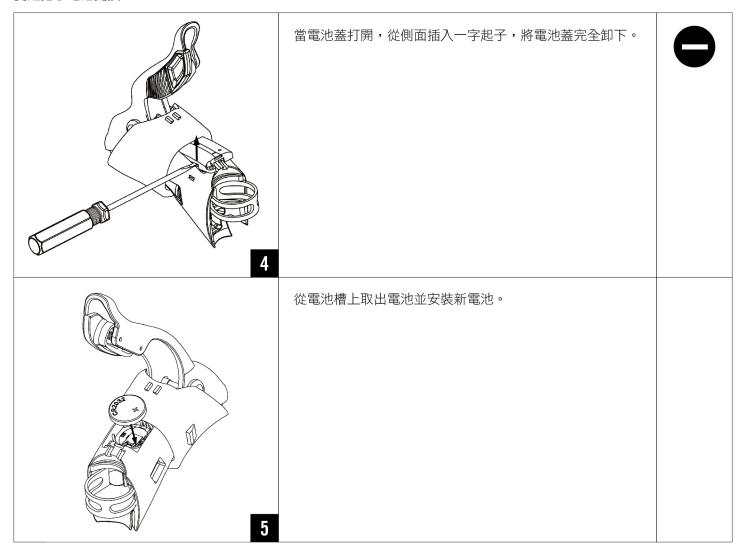


TIPS

電池電量指示請詳閱「電池檢查」章節。

如何更換電池

變速把手電池更換

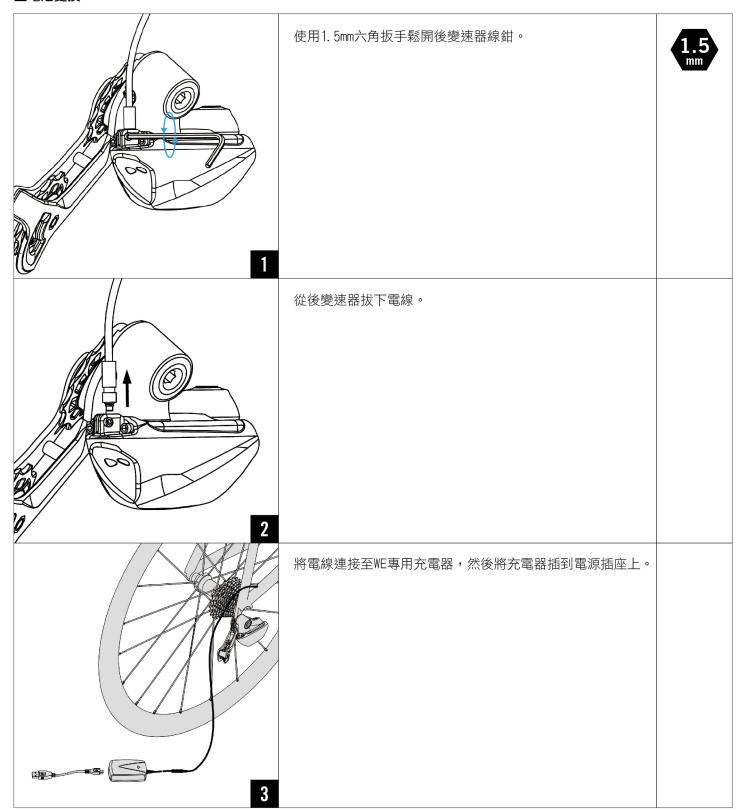


TIPS

電池電量指示請詳閱「電池檢查」章節。

如何充電

主電池更換

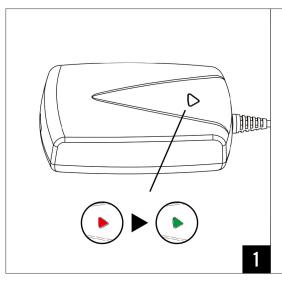


TIPS

- 1. 充電前請確認已經關閉WE電源。
- 2. 電池電量指示請詳閱「電池檢查」章節。

如何充電

主電池更換



當充電完成時,充電器會從紅燈轉為綠燈。

TIPS

- 1. 充電前請確認已經關閉WE電源。
- 2. 電池電量指示請詳閱「電池檢查」章節。

燈號異常説明

燈號異常説明

動作	LED燈號	原因	排除方法
SET O	LED亮雙紅燈	前變速器異常	◆ 檢查變速器安裝是否正確◆ 檢查設定
(SET) (D)	LED亮雙黃燈	後變速器異常	• 檢查變速器安裝是否正確• 檢查設定
SET O	LED 1亮綠燈 LED 2亮紅燈	前後變速器通訊失聯	◆ 檢查前後變速器的連接◆ 檢查電線是否損壞
SET ()	LED 1亮紅燈 LED 2亮綠燈	後變速器接收錯誤, 後變速器訊號遺失。	檢查前後變速器的連接檢查設定