



无线电子变速系统

ELECTRONIC DERAILLEUR SYSTEM
SYSTÈME DE CHANGEMENT DE VITESSE ÉLECTRONIQUE INFINI

EDS FAQ处理指导手册
FAQ Handling Manual
Manuel de Traitement des FAQ

您可能需要您变速器产品的用户手册(说明书),您可以扫码以下二维码,获取所需要的产品使用手册!

You may need the user manual (instruction manual) of your transmission product. You can scan the QR code below to get the required product manual!

Vous pourriez avoir besoin du manuel d'utilisation de votre produit de transmission. Vous pouvez scanner le code QR ci-dessous pour obtenir le manuel correspondant!



USER MANUAL V1.0.4

中文部分从第1页开始

The English part starts from page 26.

La partie en français commence à la page 51.

Error codes prompted in the app, please refer to the table below for diagnosis

EDS Error Code Reference Table

No.	Error Code	Cause of Error	Handle
01	0x01	G-sensor initialization failed	Return for repair
02	0x02	EEPROM initialization failed	Return for repair
03	0x04	Magnetic encoder initialization failed	Return for repair
04	0x08	Internal flash initialization failed	Return for repair
05	0x10	Timer error	Return for repair
06	0x20	Magnet detection error	<p>Ⓐ Shifting works normally, can continue use</p> <p>Ⓑ Malfunctioning, not usable normally</p> <p>Return for repair</p>
07	0x40	Configuration data needs reset	Perform the "initial calibration" operation on the equipment.



User Manual

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Contact Information for After - sales Service

Email eds-zxy@wheeltop.com

WeChat



Explanation

Table usage instructions

Problematic part	Problem manifestation	Phenomenon explanation	Recommended operation
Rear Derailleur	<p>Symptom</p> <p>07 Whether shifting gears or not, the rear derailleur randomly shifts up and down</p>	<p>Cause</p> <p>Abnormality of the controller (shifter/trigger shifter) Circuit board failure</p>	<p>Recommended Action</p> <p>Return for repair</p>
Electronic Malfunctions	<p>(A) It is normal to use the APP to control gear</p> <p>(B) It is abnormal to use the APP to control gear</p>	<p>Return for repair</p> <p>Return for repair</p>	<p>Return for repair</p> <p>Contact customer service and send the product back.</p> <p>Contact customer service</p> <p>Contact customer service to consult about solutions.</p> <p>Warranty denied</p> <p>The user bears the repair costs.</p>
	<p>Self - test the fault cause</p> <p>Conduct when the product shows this phenomenon.</p>		

Warranty explanation

The following circumstances are not within the scope of the warranty for Wolf Peak products:

1. The product has been in use beyond the three - year warranty period.
2. Damage to the product caused by improper use, maintenance, or storage. This includes, but is not limited to, improper use during competitions or commercial activities.
3. Damage caused by modifying the product or due to neglecting the proper maintenance and storage of Wolf Peak products.
4. Damage resulting from traffic accidents.
5. Damage that occurs during transportation not arranged or carried out by Wolf Peak.
6. Damage to the product caused by installation, debugging, or repair performed by third - parties other than Wolf Peak or its authorized dealers.
7. Normal wear and tear of the product (especially regarding its appearance and surface) due to regular use, provided that this wear and tear does not affect the product's functionality.
8. Lack of the corresponding Wolf Peak warranty card, a valid invoice within the warranty period, or other valid proof indicating that the Wolf Peak product is within the warranty validity period.
9. After being inspected by Wolf Peak staff, there are sufficient grounds to believe that the product is not an authentic Wolf Peak product.
10. The model of the product for which warranty service is requested does not match the model recorded on the warranty card, or the model on the warranty card has been tampered with.
11. Damage caused by force majeure or the fault of a third party.

The above descriptions of non - warranty situations are intended to clearly define the circumstances under which Wolf Peak products do not qualify for warranty services, enabling consumers and relevant parties to have a clear understanding. When using and maintaining Wolf Peak products, please follow the product manual and relevant requirements to ensure the normal use of the product and the possible enjoyment of warranty rights.

Transmission System

Rear Derailleur

Electron-
ic
Malfunc-
tions

Symptom	Cause	Recommended Action
01 Battery LED flashes red frequently without charging	Poor battery contact / failure	Return for repair
02 Battery flashes red frequently while charging	Poor battery contact / failure	Return for repair
03 Power is connected, but device won't charge	① Poor battery contact /failure	Self - repair: Tighten the four battery fixing bolts. It will work normally if everything is fine. Still no response. Return for repair
	② Charging port contact failure	Return for repair
	③ Poor contact of the charging interface.	Self - repair: Wipe the interface. It can be charged normally if the problem is solved. Still no response. Return for repair
04 Rear derailleur indicator remains green/blue (no shift command)	Circuit malfunction	Return for repair
05 Shifter triggers derailleur, green light appears, but no action	Circuit malfunction	Return for repair

Transmission System

Rear Derailleur

Electronic Malfunctions	Symptom	Cause	Recommended Action
	06 The rear derailleur is controlled by the shifter, and the rear derailleur indicator light does not light up	(A) Try to charge Normal: APP connection is displayed	Circuit/Battery failure
07 Whether shifting gears or not, the rear derailleur randomly shifts up and down	(A) It is normal to use the APP to control gear	Abnormality of the controller (shifter/trigger shifter)	Return for repair
(B) It is abnormal to use the APP to control gear	Circuit board failure	Return for repair	
08 Frequent fault alarms, but still able to shift gears normally	Circuit failure	Return for repair	
09 Frequent fault alarms, unable to shift gears	Circuit failure	Return for repair	
10 The APP cannot find the rear derailleur	(A) Search after charging Normal: Search and connection are successful	① Circuit failure	Return for repair
(B) Search after charging Abnormal: Cannot find	② The device has been bound	Contact customer service	

Transmission System

Rear Derailleur

	Symptom	Cause	Recommended Action
Electronic Malfunctions	11 When the shifter controls the rear derailleur, the rear derailleur indicator light turns green but there is no response.	Circuit failure	Return for repair
	12 Fast/eccentric battery consumption.		
	(A) The mode in the APP is set to "Sport Mode".	Faster power consumption due to long-term stay in "Sport Mode".	Change to "Casual Mode" in the APP.
	(B) Battery failure.	Circuit failure	Return for repair
	(C) Motherboard failure.	Circuit failure	Return for repair
Mechanical failure	01 When the gear shifting is completed and no relevant device is operated, there is a downward gear slip.	Motor failure.	Return for repair
	02 Component fracture/component damage/component thread damage.		Warranty denied
	(A) Fracture of the guide plate/guide wheel damage.	Usage problems, man-made damage.	When replacing damaged/worn parts, you need to bear the repair costs yourself.
	(B) Fracture of the upper connecting rod.	Usage problems, man-made damage.	
	(C) Thread damage of the rear derailleur frame mounting screws.	Usage problems, man-made damage.	
	(D) For MTB/Gravel, the damping effect of the rear derailleur is weakened.	① The chain guide seat spring is deformed. ② The nut is loose.	Tightens the chain guide seat spring nut.



The FAQ processing guide video

Transmission System

Rear Derailleur

Debug- ging and assem- bly	Symptom	Cause	Recommended Action
	01 The system occasionally gives a fault alarm, but the gear shifting still works normally.	False alarm	Contact customer service
	02 The system frequently gives a fault alarm, but the gear shifting still works normally.	False alarm	Return for repair
	03 When the controller (shifter/trigger shifter) controls the rear derailleur, the rear derailleur indicator light does not come on, and the controller (shifter/trigger shifter) indicator light is white - green.	Normal gear shifting	
	<ul style="list-style-type: none"> Ⓐ Perform the initial calibration according to the user manual (instructions) of the relevant product. Normal 	Normal gear shifting	
	<ul style="list-style-type: none"> Ⓑ Perform the initial calibration according to the user manual (instructions) of the relevant product. Abnormal 	The initial position has not been calibrated correctly.	Return for repair
	04 When above the 3rd gear, neither the shifter nor the APP can shift down (there is a motor sound).	Motor failure	Operate according to the user manual (instructions) of the relevant product and debug the initial position in the APP.
	05 The front derailleur is on the large chainring, and the rear derailleur cannot shift down three gears.		Check the rear derailleur gear display on the APP, and the APP shows gear 01. Operate according to the user manual (instructions) of the relevant product and debug the initial position in the APP.
06 The chain comes off the largest sprocket and gets stuck in the spokes.	The high - limit screw is not tightened properly.	Operate according to the user manual (instructions) of the relevant product and perform the initial calibration.	

Transmission System

Rear Derailleur

Debugging and assembly	Symptom	Cause	Recommended Action
	07 The chain comes off the smallest sprocket and gets stuck in the bottom bracket.	The low - limit screw is not tightened properly.	Tighten the limit screws properly.
	08 The front derailleur is on the large chainring, and the rear derailleur cannot shift down to the lowest three gears.	The firmware has not been updated. The initial calibration has not been carried out.	Update the firmware. Perform the initial calibration according to the user manual (instructions) of the relevant product.
	09 The chain rubs against the upper sprocket in a certain gear.	The gear value is not appropriate.	According to the user manual (instructions) of the relevant product, fine - tune the gear value (parameter) of this gear by subtracting 5 - 10 each time; the smaller the value, the closer it gets to the smallest sprocket.
	10 The chain rubs against the lower sprocket in a certain gear.	The gear value is not appropriate.	According to the user manual (instructions) of the relevant product, fine - tune the gear value (parameter) of this gear by adding 5 - 10 each time; the larger the value, the closer it gets to the largest sprocket.
	11 When debugging with the APP, it skips gears when shifting down.	The gear value is not appropriate.	According to the user manual (instructions) of the relevant product, fine - tune the up - shift gear value (parameter) of this gear by subtracting 100 - 150 each time; the smaller the value, the closer it gets to the smallest sprocket.
	12 When debugging with the APP, it skips gears when shifting up.	The gear value is not appropriate.	According to the user manual (instructions) of the relevant product, fine - tune the up - shift gear value (parameter) of this gear by adding 100 - 150 each time; the larger the value, the closer it gets to the largest sprocket.

Transmission System

Rear Derailleur

	Symptom	Cause	Recommended Action
Debug- ging and assembly	13 The chain cannot shift up and rubs against the upper sprocket.	The gear value is not appropriate.	According to the user manual (instructions) of the relevant product, fine-tune the gear. Increase the up-shift gear value (parameter) by 100 - 150 each time; the larger the value, the closer it gets to the largest sprocket.
	14 The chain cannot shift down and rubs against the lower sprocket.	The gear value is not appropriate.	According to the user manual (instructions) of the relevant product, fine-tune the gear. Increase the up-shift gear value (parameter) by 100 - 150 each time; the larger the value, the closer it gets to the largest sprocket.
Software Usage	01 When the APP cannot find the rear derailleur and after being awakened, the rear derailleur light will turn on.	Bound to another account.	Contact customer service
	02 When the APP searches and finds the MAC address of the corresponding product, it fails to connect successfully.	The MAC address is bound to another account.	Contact customer service
	03 The APP gives a fault alarm		
	(A) It can be used normally. (B) It cannot be used normally.	False alarm. Circuit failure.	No need to handle. Return for repair
04 The APP fails to update the firmware successfully when updating.	During the firmware update, the red indicator light of the upgraded product does not go out.	Try to upgrade again. It is successful when the red indicator light goes out. If it is not successful. Contact customer service	

Transmission System

Rear Derailleur

Maintenance

Symptom	Cause	Recommended Action
01 When the shifter controls the rear derailleur, the rear derailleur signal light turns red but there is no response.	Low battery level	Charge
02 When the shifter controls the rear derailleur, the rear derailleur signal light does not come on.	Low battery level	Charge

Transmission System

Front derailleur

	Symptom	Cause	Recommended Action
Electronic failure	01 The battery indicator light frequently flashes red when not charging.	Poor contact/failure of the battery	Return for repair
	02 The battery frequently flashes red during charging.	Poor contact/failure of the battery	Return for repair
	03 Unable to charge when the power supply charging cable is in good condition.	① Poor contact/failure of the battery	Return for repair
		② Contact fault of the charging interface	Return for repair
		③ Poor contact of the charging interface	Self-repair: Wipe the interface. It can be charged normally if the problem is solved.
	Still no response	Return for repair	
	04 When the shifter controls gear shifting, the front derailleur indicator light does not come on.	Battery failure	Return for repair
05 The indicator light stays on green/blue (when the shifter has not triggered a signal).	Circuit failure	Return for repair	
06 When the shifter controls the front derailleur, the front derailleur indicator light turns green but there is no response.	Circuit failure	Return for repair	
07 When the shifter controls the front derailleur, the front derailleur indicator light does not come on.	Circuit failure	Return for repair	

Transmission System

Front derailleur

	Symptom	Cause	Recommended Action
Electronic failure	08 The system frequently gives a fault alarm but can still change gears normally.	Circuit failure	Return for repair
	09 The system frequently gives a fault alarm and cannot change gears.	Circuit failure	Return for repair
Mechanical failure	01 When the shifter controls the front derailleur, the rear derailleur indicator light turns green but there is no response (there is a motor sound).	Motor failure	Return for repair
	02 When the front derailleur shifts gears, it only moves a part of the way (without completing the entire stroke).		
	Ⓐ Frequently occurs	Mechanical failure	Return for repair
	Ⓑ Occasionally occurs	Software BUG	Contact customer service
	03 When using the shifter/APP to shift gears, it randomly shifts up and down.	Mechanical failure	Return for repair
Debugging and assembly	01 When the chain is on the small chainring, it rubs against the inner guide plate (i.e., the chain cannot shift from the large chainring to the small chainring).	The fine - adjustment bolt has not been adjusted correctly.	Turn the fine - adjustment screw counter - clockwise (adjust 1/4 turn each time) until the front derailleur no longer rubs against the chain and can shift gears smoothly.
	02 When the chain is on the large chainring, it rubs against the outer guide plate (i.e., the chain cannot shift from the small chainring to the large chainring).	The limit bolt has not been adjusted correctly.	Turn the limit screw clockwise (adjust 1/4 turn each time) until the front derailleur no longer rubs against the chain and can shift gears smoothly.

Transmission System

Front derailleur

	Symptom	Cause	Recommended Action
Debugging and assembly	03 When the front derailleur shifts gears (from the large chainring to the small one, and from the small one to the large one), the chain falls between the two chainring plates.	There is a problem with the spacing between the chainring plates, and they may be incompatible.	Replace the chainring.
Software Usage	01 The APP gives a fault alarm		
	(A) It can be used normally.	False alarm.	No need to handle.
	(B) It cannot be used normally.	Circuit failure.	Return for repair
	02 The APP fails to update the firmware successfully when updating.	During the firmware update, the red indicator light of the upgraded product does not go out.	Try to upgrade again. It is successful when the red indicator light goes out. If it is not successful. Contact customer service
Maintenance	01 When the shifter controls the front derailleur, the front derailleur signal light turns red but there is no response.	Low battery level	Charge
	02 When the shifter controls the front derailleur, the front derailleur signal light does not come on.	Low battery level	Charge

Transmission System

Controller (Shifter on Handlebar / Trigger Shifter)

Electronic Malfunctions	Symptom	Cause	Recommended Action
	01 Whether shifting gears or not, the gear shifting goes up and down randomly.	<ul style="list-style-type: none"> Ⓐ Shifting gears using the APP works normally. 	The controller (shifter/trigger shifter) is abnormal.
	<ul style="list-style-type: none"> Ⓑ Shifting gears using the APP does not work normally. 	Circuit board failure.	Return for repair
	02 The shifter cannot control the front and rear derailleurs.		
	<ul style="list-style-type: none"> Ⓐ The switching works normally after replacing the battery. 		
	<ul style="list-style-type: none"> Ⓑ The switching does not work normally after replacing the battery. 	Circuit failure.	Return for repair
	03 The trigger shifter cannot switch modes.		
	<ul style="list-style-type: none"> Ⓐ The switching works normally after replacing the battery. 		
	<ul style="list-style-type: none"> Ⓑ The switching does not work normally after replacing the battery. 	Circuit failure.	Return for repair
	03 The button indicator light flickers on and off.		
	<ul style="list-style-type: none"> Ⓐ The battery is not installed properly. 	Installation error.	Reinstall the battery according to the user manual.
	<ul style="list-style-type: none"> Ⓑ Button failure. 	Circuit failure.	Return for repair

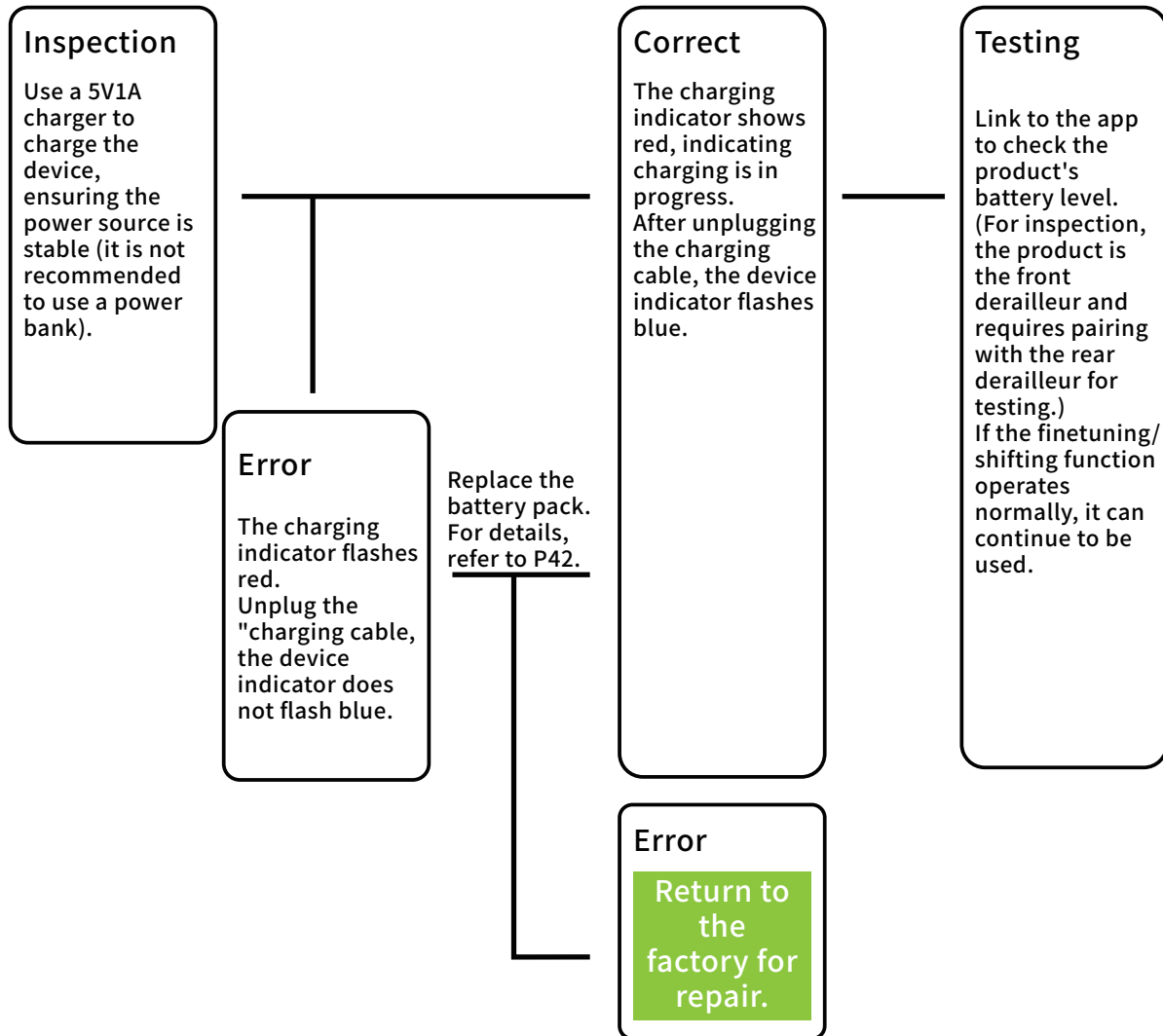
Transmission System

Controller (Shifter on Handlebar / Trigger Shifter)

	Symptom	Cause	Recommended Action
Software Usage	01 When the shifter controls the front derailleur, the front derailleur signal light does not come on, and the shifter indicator light shows white - green.	Pairing failed.	Operate device pairing according to the user manual (instructions) of the relevant product.
	02 The APP gives a fault alarm		
	<ul style="list-style-type: none"> Ⓐ It can be used normally. Ⓑ It cannot be used normally. 	<ul style="list-style-type: none"> False alarm. Circuit failure. 	<ul style="list-style-type: none"> No need to handle. Return for repair
	03 The APP fails to update the firmware successfully when updating.	During the firmware update, the red indicator light of the upgraded product does not go out.	Try to upgrade again. It is successful when the red indicator light goes out. If it is not successful. Contact customer service
Mechanical failure	01 One button of the trigger shifter has no response.	Mechanical problem.	Return for repair
Maintenance	01 The shifter/trigger shifter cannot control the front and rear derailleurs, but the APP can be used for gear shifting.	Low battery level.	Replace the battery.

Battery Maintenance

Operation Steps



If the battery pack of the product (front/rear derailleur) becomes unusable, please follow the above steps for inspection/repair!



Battery maintenance
Work with instructional videos

Battery Maintenance

TX Rear Derailleur Battery Pack Replacement



Battery Maintenance
Instructional Video

01

Remove the high/low limit screws.



Use a 2mm hex wrench to sequentially remove the high and low limit screws, ensuring proper identification/distinction.

02

Remove the four fixing screws around the battery.



Use a 1.5mm hex wrench to sequentially remove the four battery pack fixing screws.

03

Remove the battery pack.



Hold the rear derailleur firmly with one hand, and gently pull the battery pack out vertically with even force.

04

Check the battery voltage.
Correct: 5~8V
Incorrect: 0V



Hold the rear derailleur firmly with one hand, and gently pull the battery pack out vertically with even force.

Battery Maintenance

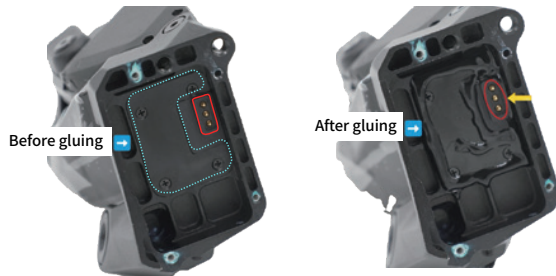
TX Rear Derailleur Battery Pack Replacement



Battery Maintenance
Instructional Video

05

Apply waterproof sealant



Clean off the existing waterproof sealant. Apply a new loop of waterproof sealant around the battery compartment of the rear derailleur.
Warning! Do not touch the contact points (red areas).

06

Install the battery pack seal.



Align and smoothly fit the sealing ring into the green-marked position.

07

Install the battery pack



Hold the rear derailleur firmly with one hand, and press the battery pack vertically into place with even, gradual force.

08

Reinstall in sequence:

The 4 battery pack securing screws
The 2 high and low limit screws



Use a 2mm hex wrench to first secure the four battery pack fixing screws into place. Use a 1.5mm hex wrench to install the two high/low limit screws.

Battery Maintenance

GeX rear drapeur battery pack replacement



Battery Maintenance
Instructional Video

01

Remove the four fixing screws around the battery.



Use a 1.5mm hex wrench to sequentially remove the four battery pack fixing screws.

02

Remove the high limit screw.



Use a 2mm hex wrench to sequentially remove the high and low limit screws

03

Remove the battery pack.



Hold the rear derailleur firmly with one hand, and gently pull the battery pack out vertically with even force.

04

Check the battery voltage.
Correct: 5~8V
Incorrect: 0V



Use a voltmeter to test the battery. If the voltage displays 0V, it indicates a faulty battery pack that requires replacement.

Battery Maintenance

GeX rear drapeur battery pack replacement



Battery Maintenance
Instructional Video

05

Apply waterproof sealant.



Clean off the existing waterproof sealant. Apply a new loop of waterproof sealant around the battery compartment of the rear derailleur.

Warning! Do not touch the contact points (red areas).

06

Install the battery pack seal.



Hold the rear derailleur firmly with one hand, and press the battery pack vertically into place with even, gradual force.

07

Reinstall in the following order:
The four battery pack fixing screws.
The one high/low limit screws.



1.5

2

Use a 1.5mm hex wrench to securely install the four battery pack fixing screws into place. Use a 2mm hex wrench to install the high limit screw.

Battery Maintenance

TX front derailleur battery pack replacement



Battery Maintenance
Instructional Video

01

Remove the waterproof rubber plug.



Remove the two waterproof rubber plugs on one side sequentially.

02

Remove the two battery fixing screws on one side of the waterproof rubber plug.



After removing the waterproof rubber plugs, use a 2mm hex wrench to sequentially remove the two battery pack fixing screws.

03

Remove the one battery fixing screw on the opposite side.



Use a Phillips screwdriver to remove the fixing screw on the bottom side of the front derailleur battery pack.

04

Remove the battery pack.



Gently pull the battery pack out vertically and slowly with even force.

Battery Maintenance

TX front derailleur battery pack replacement



Battery Maintenance
Instructional Video

05

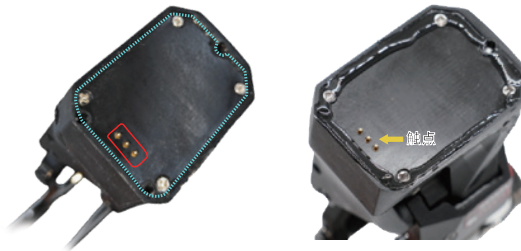
Check the battery voltage.
Correct: 5~8V
Incorrect: 0V



Use a voltmeter to test the battery. If the voltage displays 0V, it indicates a faulty battery pack that requires replacement.

06

Apply waterproof sealant.



Clean off the existing waterproof sealant. Apply a new ring of waterproof sealant around the battery compartment of the rear derailleur. **Warning!** Do not touch the contact points (red areas).

07

Install the battery pack.



Hold the rear derailleur firmly with one hand, and press the battery pack vertically into place with even, gradual force.

08

Reinstall in the following order:
Two fixing bolts (1.5mm hex screws).
One Phillipshead screw.



Use a 1.5mm hex wrench to securely install the two battery pack fixing screws into place. Then, use a Phillips screwdriver to securely install the Phillips-head fixing screw into place.

Battery Maintenance

TX front derailleur battery pack replacement



Battery Maintenance
Instructional Video

09

Apply waterproof sealant in dots.



Apply adhesive around the waterproof rubber plug in small dots.

10

Reinsert the waterproof rubber plug.



Reinsert the waterproof rubber plugs one by one in sequence.