

LYNX TRAIL

Off-road Electric Motorcycle



www.79BIKE.com

User Manual

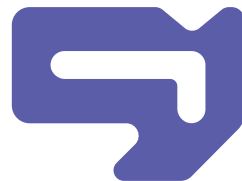


工艺说明：
红色：烫银
绿色：UV

LYNX TRAIL

Off-road Electric Motorcycle





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Basic Information

RIDE THE FUTURE



RIDE THE FUTURE

Basic Specifications

Overall Dimensions (L*W*H)	1890X800X1110MM
Curb Weight (Incl. battery)	66kg
Max Load Capacity	90kg
Recommended Age	18~55 years
Wheelbase	1260mm
Seat Height	855mm
Min. Ground Clearance	280mm
Top Speed	90km/h
Peak Power	10kw
Max Torque at Wheel	405N.m
Range at Full Charge (km)	80km (40km/h)
IP Rating	Ip67
Battery Type	Lithium-ion NMC Battery M50T
Nominal Capacity & Voltage	72V 40Ah
Charging Current	10A

Charging Time	4H
Motor Type	PMSM
Rated Power	5kw
Rated Voltage	72V
Motor Light	LED Intelligent Adjustment
Controller	72V Sine Wave Vector Controller
Frame Type	NO.6061 T4 &T6 ALUMINUM ALLOY
Tire Type	Front & Rear Off-road (F: 80/100-19 R: 3.0-18)
Drive System	428 Chain 106Links
Suspension System	Front: 200mm travel Rear: 200mm travel
Front Brake	2.8mm x 220mm
Rear Brake	2.8mm x 220mm
Handlebar	800mm
Communication Port	CAN

Scan Code or Download APP from Store

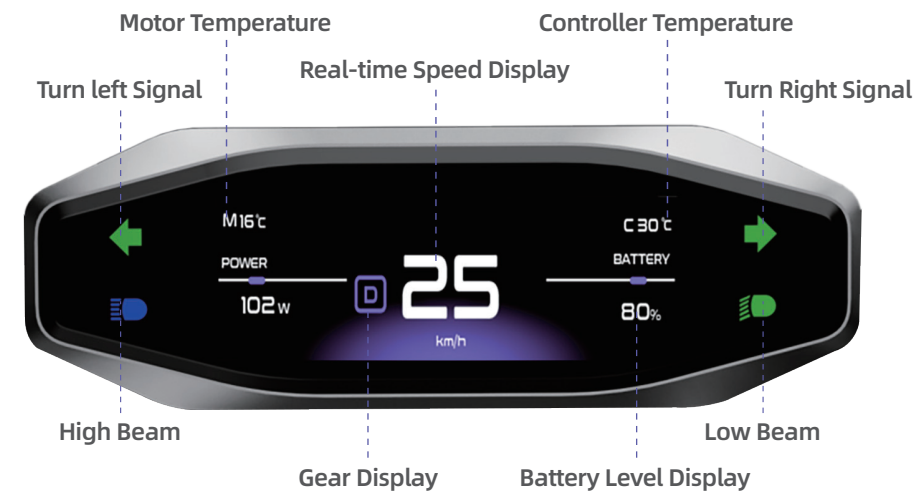
Android System: Please search for 79 Cloud in the App store to install.

IOS System: Please search for 79 Cloud in the App Store to install.

The QR code for App downloading is provided inside the accessory box.

APP Connection Process

- Step 1: Open the APP and register a personal account.
- Step 2: Click on "Connect Device" then enter the IMEI code or scan the corresponding IMEI QR code (IMEI code and frame number are affixed inside the accessory box and the last page of the user manual.).
- Step 3: Click "Confirm Connect Device" to establish the connection.

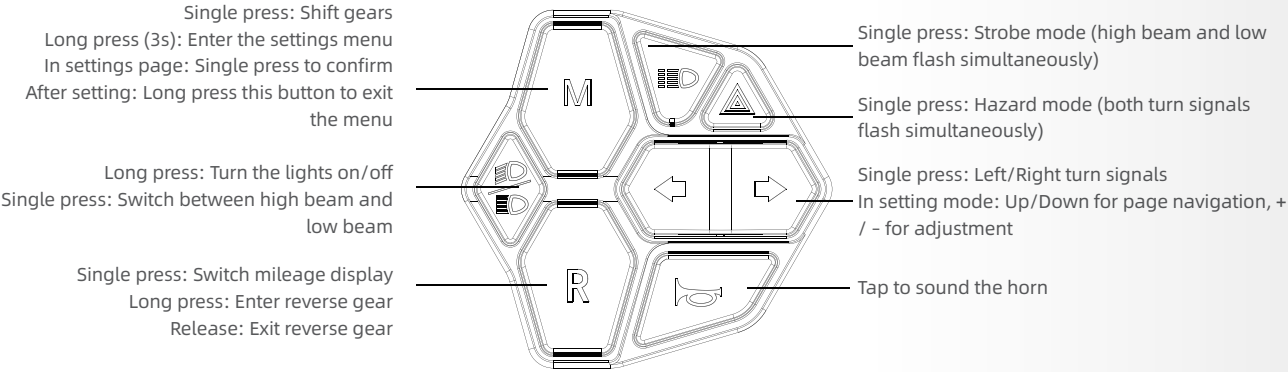


Error Code Descriptions

Error Code	Description
E02	Throttle Error
E03	Comm Error
E04	Hardware Over-current Protection

Error Code	Description
E05	Under-voltage
E06	Over-voltage
E07	Motor Sensor Fault

Button Instructions



Gear Explanation

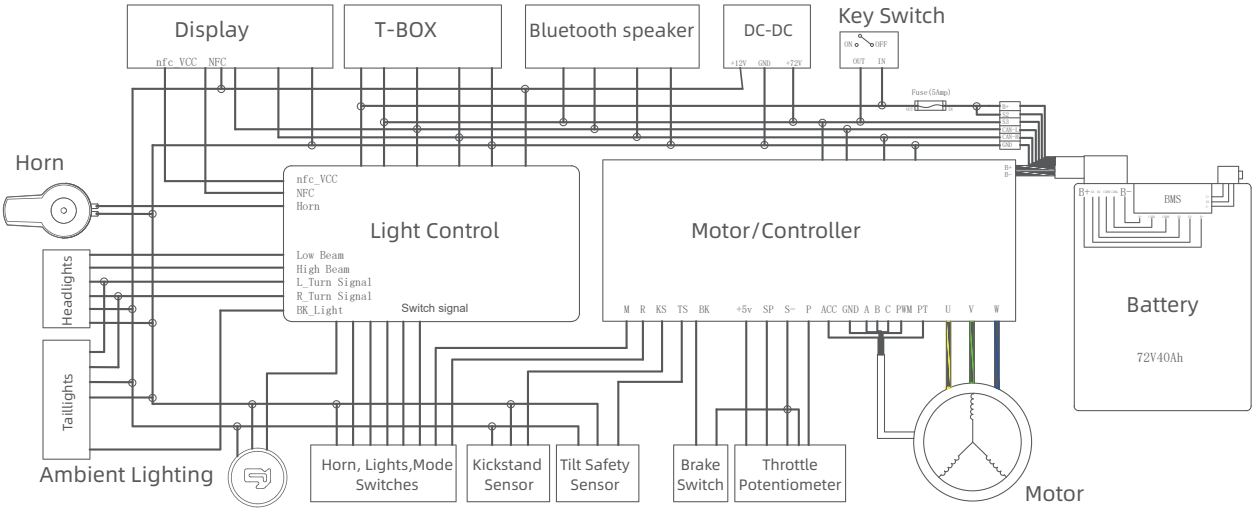
(Note: E, D, and S modes can be cycled through by a single press)



Statement

- 1.To the extent permitted by law, the company reserves the right to interpret and explain this statement.
- 2.The company is committed to continuously improving product functions and performances. Later product specifications and manual content may be changed accordingly without prior notice, please understand! If there are differences between the icons, pictures, etc. in the manual and the actual product, please refer to the actual product.
- 3.This statement is applicable under the laws of the People's Republic of China (excluding Hong Kong, Macao, and Taiwan). The company shall not be liable for any claims or losses caused by consumers'violation of these statements. Unforeseen or unavoidable risks encountered during driving shall be borne by the driver himself.
- 4.If you resell or give away your 79 BIKE motorcycle, please pass along this manual as it is a part of the product. If you have any questions to consult, our company is glad to serve you at any time. Thank you again for your choice and trust in this product.

Electrical Schematic Diagram



Safety Instructions

-  Always wear a helmet, elbow pads, and knee pads when riding.
-  Ensure your electric motorcycle is fully charged and all screws are tightened before riding.
-  Always be aware of and obey local road traffic laws and regulations.
-  Do not ride under the influence of drugs or alcohol.
-  Do not ride in heavy rain or extreme temperatures, as this may lead to skidding and injury.
-  Please be mindful of the current laws in the country/region where you intend to ride.

Riding Instructions

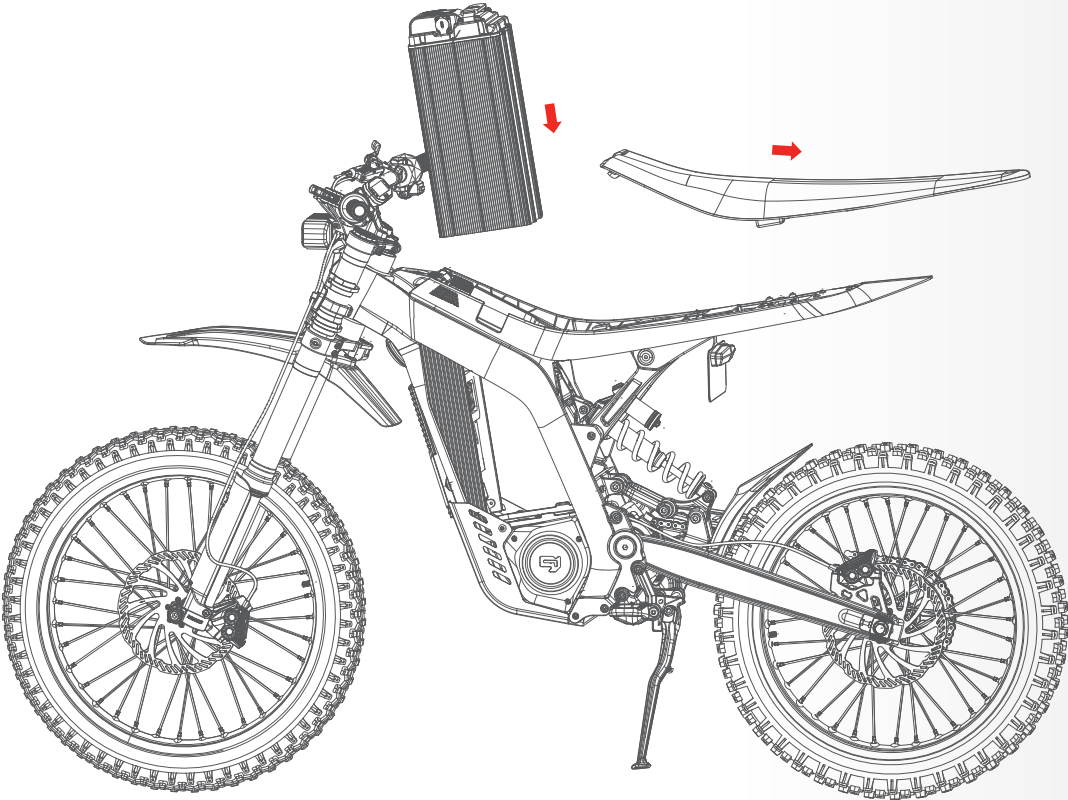
- 1.To avoid distractions, do not use mobile phones, cameras, headphones, or earplugs while riding.
- 2.If you are eager to experience the 79BIKE electric off-road motorcycle, it is recommended to ride in a closed, safe area and wear appropriate protective gear.
- 3.Never ride in public places or on motor vehicle lanes.
- 4.Avoid rapid acceleration and sudden braking to save battery power, protect vehicle components, extend range, and prolong the vehicle’s service life.
- 5.If an abnormality occurs during riding, stop immediately. Do not ride the motorcycle until the cause of the abnormality is identified and repaired. Please contact after-sales service promptly.

Usage Instructions

- 1.Park the product on a flat surface and turn off the power. Failing to do so may cause the vehicle to roll, resulting in harm to you and others. Do not park the vehicle on a slope or soft ground to prevent it from tipping over.
- 2.Be sure to use the dedicated lithium - battery charger for this vehicle. The input voltage of the charger is 110 - 240V. Let the product stand still before charging. If the charger or charging port is wet, do not charge. Do not charge or park the vehicle in prohibited areas. When charging, keep it away from flammable materials, and cut off the power in a timely manner after charging is complete.
- 3.It is prohibited to charge the battery at temperatures below 0°C, as this may damage the battery. Wait until the battery temperature rises back to normal before charging.

Pre - riding Inspection

- 1.Check the tires: No cracks or abnormal wear on the tires; no nails, stones, glass, or other foreign objects embedded.
- 2.To ensure normal riding, the tire pressure should be 32.6 psi (225 kPa).
- 3.No loosening of the wheel axle screws.
- 4.Check the fixation of the handlebars and front/rear wheels: Ensure the handlebars are stable, and the front and rear wheels are steady without wobbling and can operate normally.
- 5.Check if the reflectors are damaged or contaminated.
- 6.Check the status of the power circuit, lighting circuit, etc., to ensure they work properly.
- 7.Check if the front and rear braking systems can work normally.
- 8.Ensure the battery level meets the riding requirements.
- 9.Spoke tightness: If loose, tighten immediately (4N·m - 6N·m).
- 10.The throttle should operate smoothly without jamming, and return quickly.
- 11.Chain status: Normally, the chain has a 1 - 2 cm floating space. If jammed, it is recommended to clean the mud and add lubricating oil.



Battery Details				
Battery Type	Charging Hours	Voltage	Capacity	Usage Temperature
NCM	4H	72V	40Ah	0-40℃

Charging Steps

- I. Method for charging without removing the battery.
1. Open the charging cover on the left side of the bike.
2. Connect the output end of the charger to the battery charging port, and then connect the other end of the charger to the power source.
- II. Method for charging by removing the battery.
1. Insert the key and turn it clock-wisely to unlock the seat lock.
2. Move the seat bag.
3. Pull up to remove the battery and close the battery cover.
4. First connect the output end of the charger to the battery charging port, and then connect the other end of the charger to the power source.

Battery Storage

1. If the battery is not in use for long time, please keep it with 50% - 70% of it's capacity.
2. If it needs to be stored for long time, it should be charged at least once a month.
3. If the temperature is below 0℃, avoid charging. Allow the electric off-road motorcycle to return to room temperature before charging.
4. Protect the bikes from dust by packaging it or using its original packing.



NOTE

Do not charge the battery below 0℃; Otherwise, it will be damaged. Please wait until the battery temperature rises before charging.

Instructions for recycling and reusing batteries: Damaged or used-up batteries must not be disassembled without permission; they should be returned to the manufacturer or be sent to the designated after-sales repair center for recycling or repair. Do not discard them randomly;

*** If the vehicle is not used for more than one month, the power switch must be turned off or the power plug must be unplugged, and the battery should be fully charged.**

*** Please secure the sealing rubber cap of the charging port when not charging.**

Under normal riding conditions, the first inspection should be conducted after 10 to 300 km (commonly referred to as the initial maintenance service).

- 1. Inspect the chain tension.
- 2. Check for any looseness in the steel wire spokes on both the front and rear wheels.
- 3. Examine the steering head assembly for any play or clearance that may affect handling performance.
- 4. Verify the tightness of all fasteners located on the handlebar assembly.
- 5. Assess the belt tension; for newly installed belts, slight friction noises may occur. These can be mitigated by applying wax to both sides of the belt or may be disregarded if they do not impair functionality.
- 6. Adjust the suspension settings and inspect for oil leakage. Confirm that both compression and rebound damping are set to the recommended positions. Note: During adjustment, avoid rotating the adjustment knob to its extreme leftmost or rightmost positions.

 **NOTE**

The entire process is forbidden to operate under power-up state, the bike should be power off.

Pay full attention to safety during the inspection

- 1. Choose a wide and flat area and park the bike properly.
- 2. If driving is necessary for inspection, do it in a safe place and be aware of the surrounding environment and conditions.
- 3. If any abnormalities are found during the inspection, eliminate them before driving. If you are unable to solve the problem, please contact after-sales service or the designated authorized service center.

 **NOTE**

Both the front and rear brakes are disc brakes. When the brake friction pads are severely worn, they should be replaced. During daily use, pay attention to keeping the disc brake system clean to avoid long-term adhesion of mud and sand, especially oil stains.

1. Check if the suspensions are bent, deformed or damaged.

Check for any damage, looseness, oil leakage or other faults in the front suspension. Shake the handlebar up and down to check if there are any abnormal noises caused by the failure of the front suspension. If there is any abnormality with the front suspension, please contact the after-sales service or the designated authorized service center.

2. The Inspection of Brakes.

Check the gap of the handbrake lever and ensure it is within the specified range (15-30 mm). After measurement, if it does not meet the requirements, adjustments are indispensable.

3. The Inspection of Braking Effect.

Please ride at a low speed on a dry and flat road for the inspection. Use the front and rear brakes respectively to check their individual braking effectiveness.

4. The Inspection of Tiers.

The tires of bikes are in constant contact with the ground. Foreign objects such as stones, glass, and nails on the ground can cause damage to your tires. Therefore, when riding, you should pay more attention to observing the road surface and avoid riding into areas that may damage the tires. In addition, you should frequently check if there are any obvious cracks or damages on the tires, whether they have been punctured by stones, glass, etc., and if there is any unreasonable abnormal wear.

- 1

Check the depth of tiers' grooves.
- 2

Check the looseness of wheel spokes.
- 3

Check the cracks, foreign objects, damage and abnormal wear.
- 4

Check the tensity of chain, 10-20 mm fluctuation.
- 5

Check the pressure with a tire pressure gauge when tiers cool down.

Check the tire wear condition and inspect the grooves' depth. When the wear reaches 2/3 of the protrusion, the tire should be replaced. If there is any abnormal noise or shaking when the tire is in motion, please contact the after-sales service or the designated authorized service center for inspection and repair. It is recommended that the locking torque of the central shaft be 30N·m, the locking torque of the rear axle nut be 40N·m, and the locking torque of the front axle screw depends on the front fork.

 **NOTE**

1. The belt tension has been adjusted properly by factory. Do not adjust it yourself.
2. Firmly grip the brake handle. If the braking effect is still not satisfactory, check the cleanliness of the braking disc. If the problem persists, contact the after-sales service or the designated authorized service center for inspection.



NOTE

Preventive maintenance and regular inspections reduce the risk of malfunction. If additional services are needed, please contact a 79BIKE dealer.

Recommended maintenance period

Extreme cycling in adverse weather conditions or lack of cleanliness will shorten the maintenance intervals.

Maintenance	Interval
Remove the dust and debris from the shock absorber	Each time taking
Check the air pressure and set the altitude	Each time taking
Check the torque of the shock absorber installation bolts	Each time taking
Remove the lower part,clean and inspect the bushing and seals If necessary,replace the olbath	50 hours
Full front fork shock absorber maintenance	100 hours per year

Solution

Please hand over the 79BIKE products you wish to discard to the 79BIKE dealer for proper disposal.

Check the Battery Level

This vehicle uses sealed batteries. When checking the battery level, please press the battery switch. The battery is considered fully charged when all the battery LED are on.

Inspect the appearance of the battery

Has it been damaged? For instance, if there are any damages on the upper and lower sealing covers of the battery or on the middle instrument, it may lead to the risk of water ingress after the seal fails. Please contact the after-sales service or the designated authorized service center.

- 1 Check whether the input voltage of the charger is consistent with the grid voltage.
- 2 It is strictly prohibited for users to disassemble the battery by themselves to avoid damage and potential dangers.
- 3 The charger will automatically shut off when it is fully charged. However, it is recommended to avoid keeping the charger connected to the power grid for an extended period, with the maximum duration not exceeding 6 hours.
- 4 When charging this vehicle, it is necessary to use a charger of the same model as the original one. Do not use chargers of other models, as this may damage the battery or cause danger.



NOTE

Before installing the batteries,please turn off the battery switch; if the batteries cannot be inserted into the battery compartment,do not force the operation.Remove the batteries and check if it is caused by an object that has blocked the battery; When storing batteries in winter,it is recommended to keep the indoor temperature above 0°C and regularly check the battery level.

The use and maintenance of motors and controllers

- 1 Regularly check whether the fuse is loose.
- 2 Regularly check whether the screws of the motor are loose.
- 3 Regularly check whether the wiring of the motor and controller is loose and the insulation condition.
- 4 Do not drive in water that is too deep,as it may affect the operation of the motor.



NOTE

When the motor temperature, controller temperature is too high or the battery power is too low, the vehicle will automatically reduce its power output. This is not a fault. Do not submerge the entire vehicle in water beyond the center of the wheels. Long-term immersion of the motor in water for riding may cause motor failure.

Components	Warranty Scope	Warranty Period
Motor Assembly	Coil burning, phase deficiency, demagnetization, short circuit, open circuit, abnormal noise, hub damage due to material reasons	12 months
Lithium - ion Battery	After the lithium battery is fully charged under the specified environmental conditions (the recommended charging temperature range is 0°C to 35°C, and the operating temperature range is -10°C to 45°C), the battery should be used within this environment. At low temperatures, the battery capacity may degrade to varying degrees. Specifically, the available capacity is approximately 70% at -10°C, 85% at 0°C, and 100% at 25°C. If the battery has not been subjected to external force or impact, and issues such as abnormal voltage, failure to charge, or tested capacity below 70% (as measured by a discharge tester) occur, it will be eligible for warranty service. In the case of battery replacement under warranty, the warranty period for the new battery will be calculated based on the remaining warranty period of the original battery, starting from the date of replacement	
Controller / Charger	Performance failures or quality problems due to product reasons that cannot be repaired	
Air Switch / Electric Control Lock/ Main Cable Assembly/ Battery Box Lock/ Headlight / Tail Light / Horn /Converter Assembly	Performance failures or quality problems due to product reasons that cannot be repaired	

Components	Warranty Scope	Warranty Period
Brake Assembly	Oil leakage, inability to brake effectively (brake pads are excluded from the brake part)	12 months
Front and Rear Shock Absorber Assemblies	Oil leakage, no damping	
Dashboard / USB Charging Port / Combination Switch / Speed Control Central Unit	Performance failures or quality problems due to product reasons that cannot be repaired	
Rear Swing arm / Steering Tube / Rear Frame Assembly / Frame / Steering Column / Pedal Bracket / Rear Suspension Link / Rear Suspension Assembly / Kickstand / Sprocket / Front and Rear Belt Pulley / Pedal Assembly / Bottom Bracket Assembly / Swing arm Bottom Bracket / Wheel Rim / Rear Axle / Front Axle Assembly / Front and Rear Hub Assembly / Electronic Throttle / Battery Compartment Cover	Performance failures or quality problems due to product reasons that cannot be repaired	Not Covered Under Warranty
All Vehicle Bearings (excluding Motor Bearings) / Brake Levers / Belt / Chain / Shock Absorber Oil Seals / Inner and Outer Tires / Brake Disc / Brake Pads / Steering Headset Assembly / Fender / Handlebar Grips / Seat Cushion / Fuse / Spokes / Decorative Components / Plastic Parts / and Other Related Items	Wearing parts	

The after-sales service of 79 BIKE electric off-road motorcycle strictly implements the after-sales service in accordance with the Consumer Rights Protection Law of the People’s Republic of China, the Product Quality Law of the People’s Republic of China,etc. The specific services are as follows:

Warranty Rules

1-Year Warranty for the Entire Vehicle : The vehicle comes with a 1-year warranty covering the motor, controller, battery, charger and other non-consumable parts. Free repair applies to non-human-caused performance faults, per the Warranty Standards for Covered Parts in this manual.

No return or exchange unless there is a quality issue.Should the product present functional failures or quality defects, consumers may opt for return or exchange after the company’s authorized service centers inspect and confirm the issues are non-human-caused.

Warranty Start Date

- 1.For offline purchases: The warranty date shall be based on the invoice date or purchase certificate date, whichever occurs first.
- 2.For online purchases: The warranty date shall be based on the delivery receipt date, with the warranty period starting the day after the customer takes delivery.
- 3.The delivery receipt and purchase invoice serve as valid supporting documents.
- 4.In case of missing, incomplete, or altered documents, the warranty starts on the sales date recorded in the system.

Non Warranty Coverage

The following situations are not covered by the free warranty service, and the user will be responsible for repair costs:

- | | |
|----|--|
| 1 | Exceeding the service period or scope specified in this instruction manual. |
| 2 | Damage to parts caused by the user using non - original factory spare parts or unauthorized modification of the circuit and line configuration. |
| 3 | The user modifies, disassembles, and damages the normal use state of the whole product and its parts by themselves. |
| 4 | The user fails to provide valid warranty proof , regular product invoices, or the number on the voucher or card does not match the product. |
| 5 | Product failures or damages caused by human factors such as collision, falling, traffic accidents, overloading (this vehicle is for a single person, carrying passengers is strictly prohibited), and over - speeding during the user's use. |
| 6 | Quality problems caused under extreme sports, for the purpose of challenging the limit or speed racing, are not covered by the warranty. It is recommended that the vertical drop be within 50cm. |
| 7 | Reasonable wear and tear during normal use. |
| 8 | The product has been fully compensated by the insurance company. |
| 9 | Failures or damages of the sold product caused by rainwater, ice and snow soaking, smoke, drugs, chemical corrosion, and force majeure (including but not limited to earthquakes, typhoons, fires, floods, social events, mass incidents, violent crimes, etc.). |
| 10 | Improper use of the user's battery, long - term storage (such as the vehicle's power plug not being closed and placed in the open for more than one month, stored alone with the initial power lower than 60% and for more than 3 months), over - discharge, failure to charge in time or failure to perform regular maintenance in time, resulting in the battery being unable to be repaired due to power loss and voltage failure; or due to the appearance of the battery being damaged and the waterproof performance being broken, and continued use without timely repair, resulting in damage to the circuit board and battery core after water ingress. |

User's Own Regular Maintenance Schedule	
Maintenance Category	Maintenance Requirements
Front Shock Absorber, Rear Shock Absorber Maintenance, Brake Fluid	Every 6 months / 1 time
Brake Pad Replacement	<0.5mm thickness
Brake disc replacement	Friction surface with brake pad <1.5mm thick
Bearing Replacement	Rattling and loosening
Wheel replacement	<2/3 of the height of new tire teeth

 **NOTE**

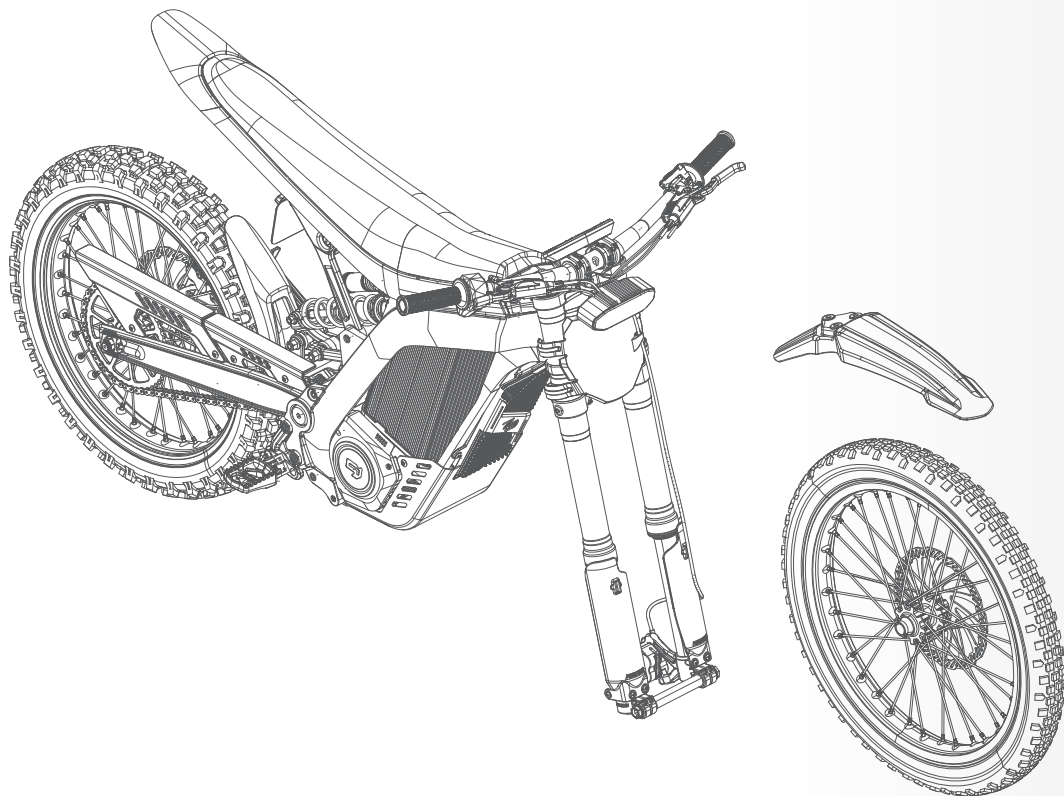
Scientific maintenance can greatly extend the service life of the vehicle, especially after intense driving or unpaved road driving (cross-country), the bike must be thoroughly checked to ensure that all parts of the bike body can work properly.

Regular Maintenance Record Card		
Maintenance period	Maintenance requirements	Maintenance person/unit stamp
300km/1 month	Vehicle fasteners check, chain and belt tension check (motor/wheel system/brake/spokes, etc.)	
1000km/3 months after the first warranty	Check the fasteners of the whole vehicle, check the high-current circuit, and check the chain and belt tension (motor/wheel system/brake/spokes, etc.)	
2000km/6 months	Friction surface with brake pad <1.5mm thick	

Warranty Record Card		
Repairer's/unit's seal	Repairer's/unit's seal	Repairer's/unit's seal

PACKING LIST

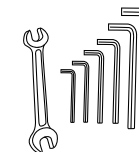
Please carefully check whether the items in the packing box are complete and intact, if there are missing or broken or other problems, please contact the dealer or the manufacturer's after-sales department for consultation.



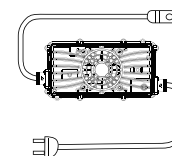
Instruction manuals
& After-sales manuals



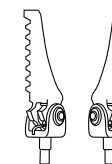
Front fender screws *3



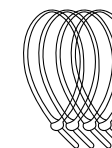
Multi-tool



Charger



Footrest



Black cable ties *4



NFC card *1



Key *1



NFC Bracelet

Official Warning

**NOTE**

During vehicle maintenance, the vehicle must remain powered off. Do not perform any operations while the vehicle is switched on.

Precautions

- 1.Check whether the input voltage of the charger is consistent with the grid voltage.
- 2.When charging, please place the charger in a safe location that is out of children’s reach.
- 3.It is strictly prohibited for users to disassemble the battery by themselves, so as to avoid damage and danger.
- 4.For battery storage in winter, it is recommended to store it indoors where the temperature is above 0°C, and check the battery level regularly.
- 5.If the battery cannot be placed into the battery compartment, do not perform forced operations. Please take out the battery and check whether foreign objects are causing the battery to get stuck.
- 6.After the charger is fully charged, it will automatically turn off, but please do not keep the charger connected to the power grid for a long time, the maximum duration shall not exceed 6 hours.
- 7.When using the charger, it is strictly prohibited to cover any objects on it. The charger is designed for indoor use, please use it in a dry and well-ventilated environment.
- 8.Check whether the battery is damaged, such as damage to the upper seal cover, lower seal cover, or the middle fitting; otherwise, there will be a risk of water ingress due to seal failure.
- 9.When charging this vehicle, you must use a charger that matches the original factory model, please don’t use chargers that do not match other models, so as to avoid damaging the battery or causing danger.
- 10.If you smell an abnormal odor, notice excessive temperature, or find that the battery still cannot show a full charge status after a long time during the charging process, please stop charging immediately and send the vehicle to the dealer for repair.

Frame number

IMEI code