



PINSCHER
— BIKES —



W1 SERIES

ASSEMBLY & MAINTENANCE MANUAL

Respected users:

Sincerely thank you for choosing our power-assisted electric bicycle. All the performance indexes of this product are in accordance with the EN standard, please feel free to use it.

For your convenience, please read the instructions carefully and follow the instructions after reading the manual.

Disclaimer:

Before using our products, be sure to read this statement carefully. Once you start to ride this electric bike, you will be deemed to have understood and approved all the contents of this statement.

1. When using this product, you must abide by the national laws and regulations and local traffic rules. Supplier and resellers are not responsible for any consequences caused by violation of the above laws and regulations.

2. Please check all the information on the vouchers and keep them properly after purchase the electric bike. Warranty maybe affected if data inconsistency with the actual product or incomplete vouchers.

3. Before riding the electric bike, please read the instruction manual carefully, and strictly follow the instructions in the instruction manual for corresponding operations. Supplier and reseller are not responsible for any consequences caused by improper use, speeding, overloading, etc

Tips:

- 1. 1.** In order to have correct maintenance, good performance and prolong its lifetime ,for safe riding and safety for others, please read the user manual and follow the instructions carefully.
- 2.** Before reading this manual and understanding the performance of electric bicycles, please do not use electric bicycles, and do not lend them to people who can't operate electric bicycles to avoid unnecessary damage to your bike.
- 3.** For the safety and happiness of you and others, please abide by local traffic laws.
- 4.** Speeding is a major factor in many electric bicycles accidents. Therefore, you should abide by the speed regulations and never drive faster than the speed.
- 5.** Do not touch the power port of the battery box used in this electric bicycles, Please don't touch the charging port or any wire connectors , otherwise it may generate a short-circuit current and cause an accident .
- 6.** In Riding , frequent braking, driving against the wind, overloading, or insufficient tire air pressure will consume more electric energy, which will effect the whole range .

please: ① under safe conditions, minimize frequent braking and starting. ② when using different road conditions (upwind/uphill/overload), it is recommended to ride with the power assist + mechanical gear shift. ③ avoid overloading. ④ check the tire pressure before driving. If it is insufficient, refill it in time.

7. Insufficient battery not only affects the continued mileage, long-term under voltage will also damage the battery life, so you should fully charge and store it in time after riding. If the battery is not used for a long time, please charge the battery to a half-full state and store it at 80%, and remove the key. It is best to recharge it every 2 months.

8. The electric bicycles should avoid long-term exposure to the sun and rain, and avoid storage in places with high air humidity and corrosive gas, so as to avoid chemical corrosion and electrical parts damage on the electroplating and painted surfaces of various parts.

9. Please regularly check whether the brake performance is good. Do not inject oil into the brake pads may cause the brakes fail. When driving downhill on snowy, rainy days, please pay attention to driving slowly to ensure safety.

10. Random modification of the electric bicycles, replacement the original electric bicycle parts or device will not guarantee the safety of the electric bicycle. For your personal safety and consumer rights, please do not disassemble or disassemble parts by yourself. If repair or replacement is required, please contact the dealer or professional maintenance personnel.

11. Please carefully check whether the parts are in good condition before use to ensure your safety.

12. Please consciously abide by the traffic rules. Driving in non-motorized lanes, to ensure the safety of you and others, do not ride a bicycle with people to carry goods.

13. Do not put the battery near high temperature or put it into fire. When charging, do not near flammable and explosive materials.

14. When riding in crowded places, please ensure that the environment is safe to assist the riding or turn off the power to avoid dangerous.

15. When disposing of the battery, please discharge the battery voltage to 0 volts. The lithium battery is a flammable and explosive material, please do not throw it into the fire.

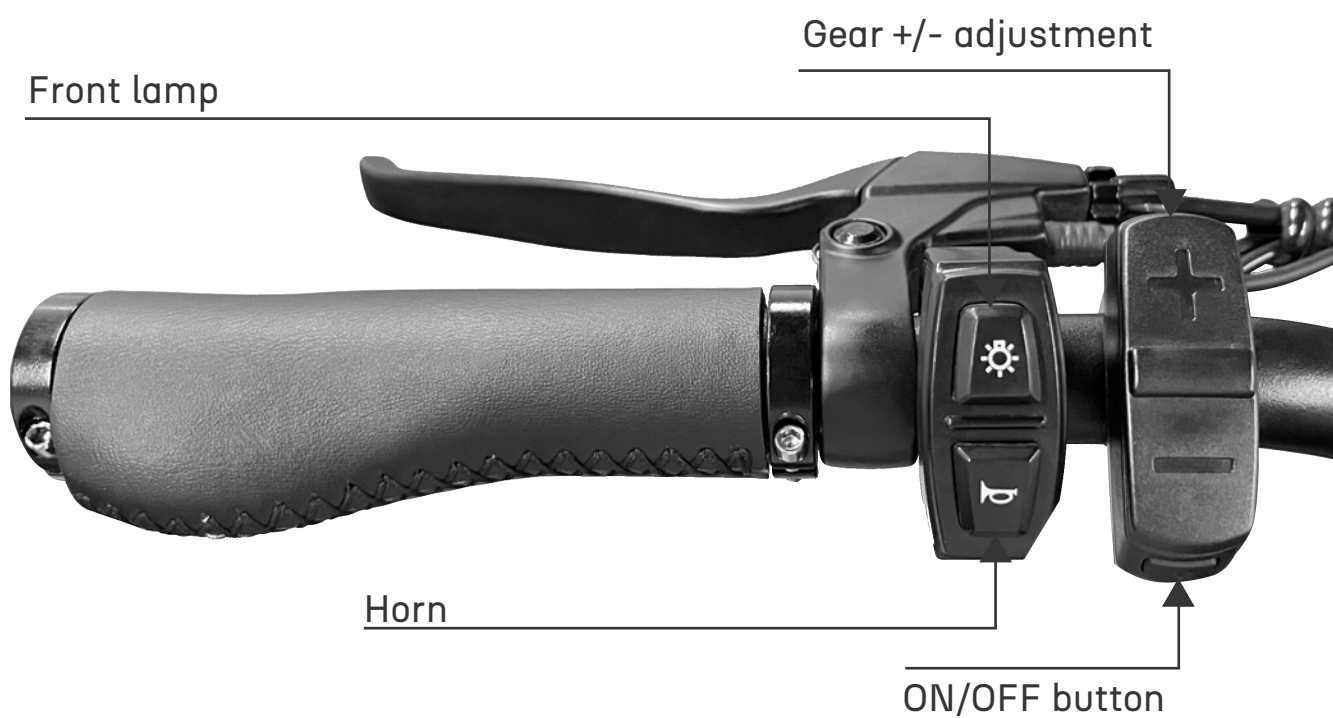
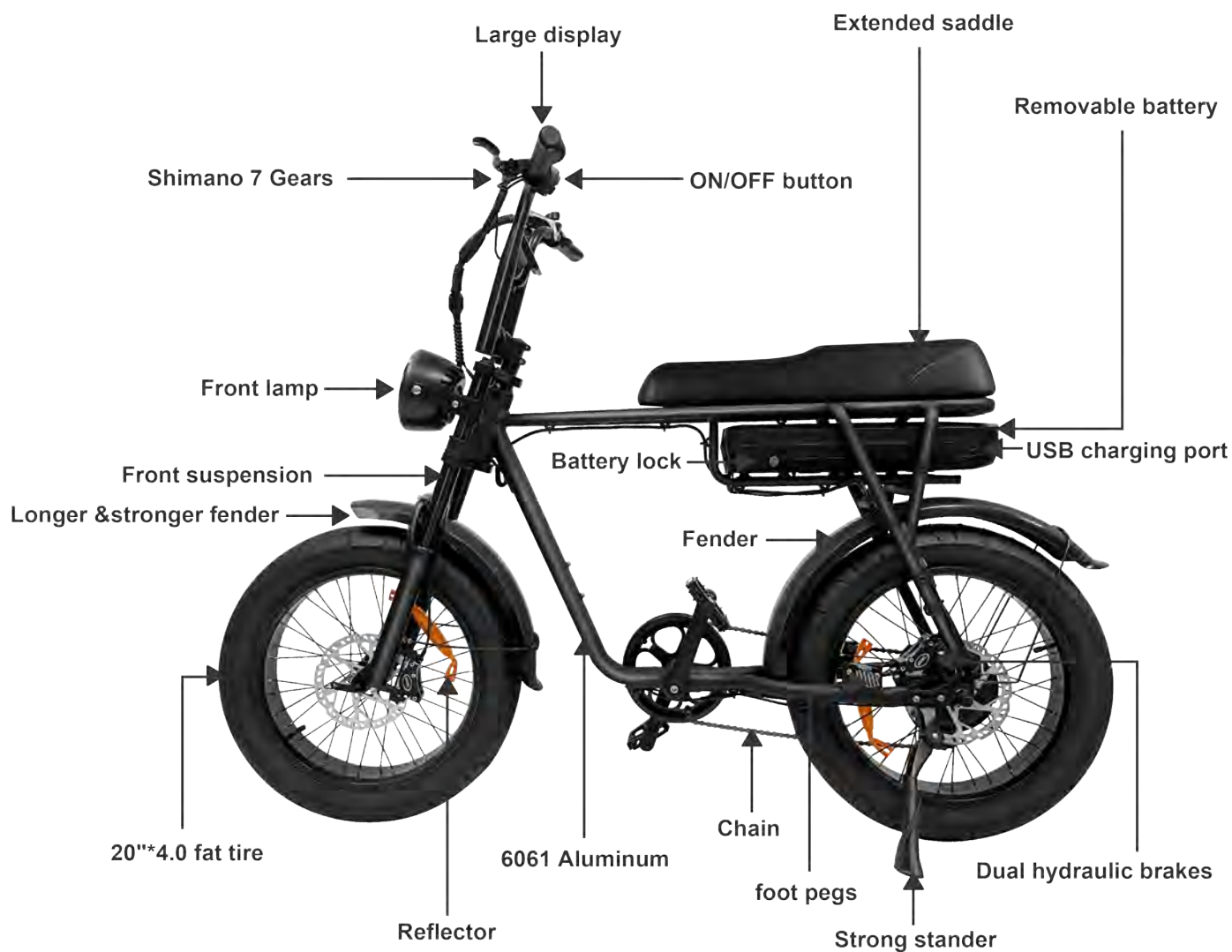
16. The relevant certifications of our charger and battery pack are strictly tested before leaving the factory. The technical parameters of the charger are fully matched with the parameter design of the battery protection board; the electronic anti-interference compatibility is good. So please don't use non-original charger ,because due to the mismatch of electrical parameters and mutual interference, the battery pack may be damaged and its service life may be shortened. It is also possible that the battery pack will be overcharged, suffocated or even ignited . if the original charger is lost or broken , please find help from your supplier or reseller.

17. The combination of our battery pack and controller is very important. This parameter has been verified by many tests. Please use the original factory-configured controller. Because the under voltage protection hedging design of the controller is based on the protection parameter design and matching compatibility performance of the battery pack protection board. If you use an unmatched controller, it may affect the over-discharge of the battery pack and damage the service life of the battery pack. It may also interrupt the power of the entire E-bike during riding, and may also reduce the life of the motor.

About renewal mileage:

- 1.** The continuation mileage in the manual is the result of the 75KG, urban road test.
- 2.** The standard state means the electric bike speed is 25km/h, new full battery, wind speed 2-3, normal temperature about 25℃, road surface is flat, tire pressure is normal, and the loading is around 75kg.
- 3.** The battery capacity gradually decreases with the increase of the using-time. After about 450-550time of charging or discharging , it may be less than 65%of the original capacity.
In winters , if the temperature is low , the battery activity will be decreased and will affecting the range . this is normal , so don't worry it is not quality issue .

Exploded view :



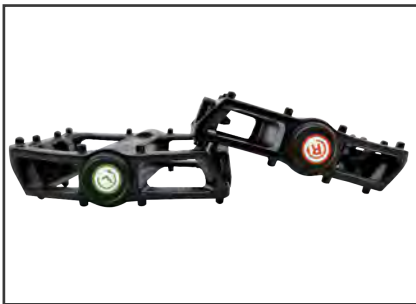
Safety instructions:

1. Please use it in accordance with road safety regulations and under optimal safety conditions. You are solely responsible for your misuse.
2. For safety use, please always wear the necessary protective equipment and an approved helmet.
3. Please wear retro-reflective clothing or equipment for all traffic at night or when visibility is poor.
4. It is forbidden to use it while wearing earphones or headphones as well as to carry a passenger.
5. Do not use it for rough terrain or on slopes at high speed without training.
6. Please note that the use of this product may result in injury which can cause death from loss of control, collisions or falls.
7. People under 18 years old are prohibited to use it.

Assembling Instructions:

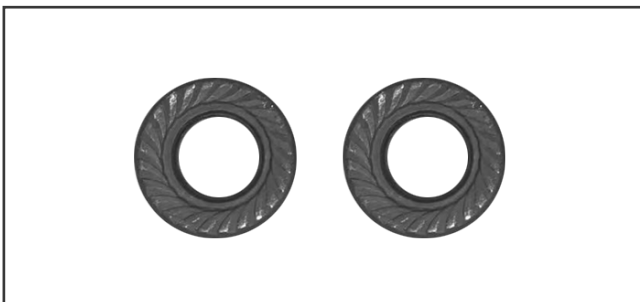
Step 1: Pedal installation

1. Identify the right and left pedal with the logo on it
(L is for left pedal , R is for right pedal)
2. Fix the right pedal to the chain wheel side with wrench.
3. Fix the left pedal to the crank side with wrench .



Step 2: Front wheel installation

1. Disassemble the nuts on the axle of front wheel.
2. Put the front wheel on the front fork.
3. Fix the front wheel with the nuts.



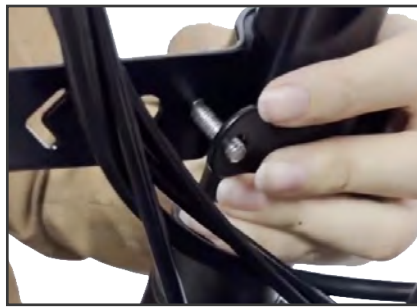
Step 3: Front mudguard installation

1. Put the mudguard under the U-frame of front fork
2. Put the screws on the fixing part
3. Fix the screws with wrench .(Please refer to the below pictures)



Step 4:Front lamp installation

1. make sure the power of electric bike is off
2. Put the front lamp on the lamp bracket , and fix it with screws
3. Connect the lamp wire connectors Please make sure the arrow icons on both connectors are at relative position



Step 5:Handlebar installation

1. Release the screws on fixing parts of front tube
2. Insert the steering wheel to the front fork and fix it with screws
3. Adjust the right position of the steering wheel .(Refer to the below pictures)



Step 6:Rear pedal installation

1.Fix the rear pedals into the rear fork with screws



Step 7:Side stander Installation

1. Keep the bike stable against the wall
2. Remove the screws and washers from the stander. Put the Side stander into the inner side of the frame and align the screw holes. Use the M5 Allen wrench to lock the Side stander to the frame.



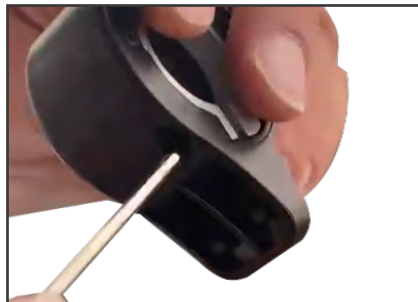
Step 8: Throttle Installation

1. Use the M3 inner hexagon to loosen the set screw and then loosen it; M4 hex wrench and Phillips brake lever and shift lever screw Screwdriver.

(No need to remove the screws, make accessories movable)



2. Remove the handle and brake lever, Locate the throttle from the accessories box. Loosen the M2.5 internal hexagonal throttle screw, first place the throttle on the handlebar, and then install the brake lever and handlebar in sequence. Tighten the screws with appropriate tools.



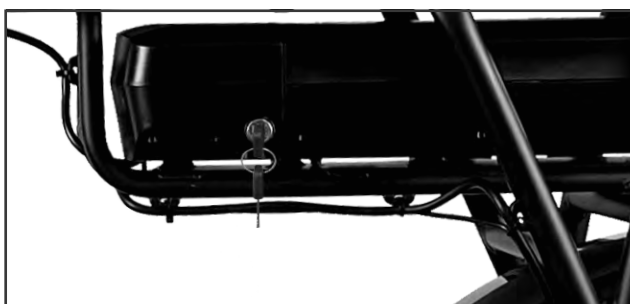
3. After the installation is completed, connect the throttle communication line to the main line interface, Note that the direction of the arrow on the waterproof head needs to be aligned.



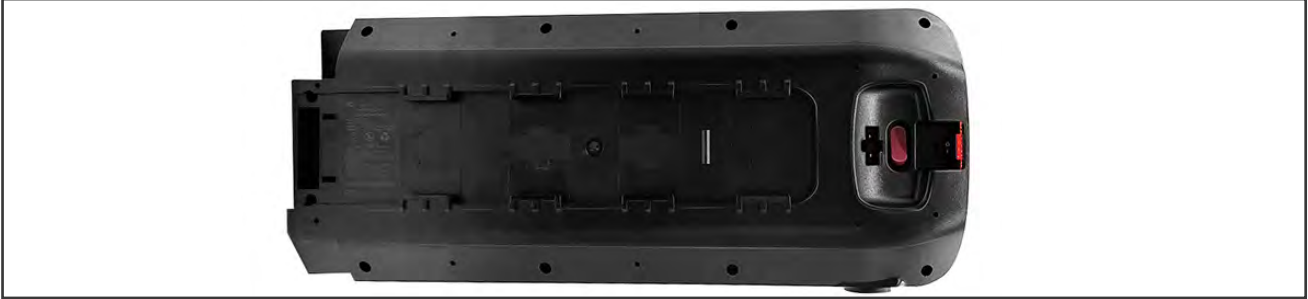
4. After starting up, press and hold the +, - button to enter the meter and enter the password (Please consult the supplier or distributors for the password.), then enter the setting page and adjust the parameter P10 to 02, Be careful not to adjust other parameters incorrectly.

Step 9: Instrument startup instructions

1. Insert the battery into the rail under the seat cushion (Pay attention to aligning the guide rail interface), After connecting the controller, open the mechanical lock to prevent the battery from falling off.



2. Turn on the power switch under the battery(big red switch)
Long press the on/OFF button , and the display will be on , then
you can ride the electric bike .



Preparation Before Riding:

1. Read this manual carefully to understand the performance and related requirements of the product.
2. Check the tire status and whether the air pressure is sufficient. If it is insufficient, it must be inflated to normal condition. If the tire straps are excessively worn or the tire surface is scratched or damaged, you should go to the supplier's authorized maintenance warehouse or local cooperative distributors to replace the tires to prevent the e-bike from driving on wet roads or slipping on smooth roads.
3. Check the circuit system: Is the battery energy sufficient to support the continuous driving range you need? If the battery is low, it must be charged first; whether the pointers and indicator lights in the meter work normally. If there are faults, it must be eliminated in time before riding.
4. Check the brake system: whether the brake and brake power-off function are normal. If the brake power-off function fails, please do not use it and contact the supplier or distributors' engineering team for repair. Pay attention to the wear and tear of the front and rear brake blocks or pads. In the case of frequent use, the brake pads or pads on the brake should be replaced in time to avoid affecting the braking effect and wearing aluminum rings or discs. Note that the braking distance should be appropriately increased when riding in rain and snow.

5. Check crank chain function: check whether it is normal and lubricate the chain regularly.

6. Check whether the fasteners of each part are firm: whether the screws of the electric bicycle (especially the front and rear wheels) have been locked; whether the handlebars and saddles are adjusted properly. The adjustment height should be within each safety line.

7. For riding safety, it is recommended to wear a helmet. In addition, it is recommended to decide whether you need to wear glasses, gloves, sunscreen and other protective gear according to weather conditions when riding.

Use and drive:

1. EB2 has two drive modes: pedal-assist mode, sports mode



Pedal-assist mode



Sports mode

A: Pedal-assist mode

Turn on the display, pedal on the bike one to three circles without twist the throttle to enter into the pedal-assist mode, the speed will vary depending

on the assist mode, sport mode, and pedal strength. When you stop pedaling, the power-assisted will automatically stop after one lap.

C: Sports mode

1. When the power is off or turn off the display, the ebike is an ordinary bike for daily commute, cycling, exercise and travel.

2. Many electric bicycles accidents occurred because the driver of the vehicle can't see the electric bicycles. Therefore, electric bicycles riders should

try to make drivers see themselves clearly, for example:

- Wear bright and dazzling clothing.
- Avoid crossing traffic blind areas.
- It is strictly forbidden to fight for roads right.
- Do not cycling into the motor vehicle lanes , do not rush into lanes with motor vehicles or get too close with other motor vehicles

3. Turn off the power when parking to save power.

4. When cycling on a downhill roads, use the front and rear brake levers to slow down the speed of electric bicycles. The brake lever has the power-off function, and it is normal that the electric power is not supplied when braking.

5. It is recommended to park the electric bicycles indoors.

Brake system:

A. When braking during cycling, generally hold rear brake firstly, then hold the front brake, for emergency braking, the front and rear brakes must be used at the same time. Using them alone will reduce the braking effect. In addition, it does not recommend to use the brakes for long time, as this will cause the brakes to overheat and reduce the braking effect.

B. This electric bicycle has a brake automatic power-off device. when the brake is used, the controller will automatically cut off the power (but please note: when the brake lever returns to original position, it is still energized) .in case of an emergency out of control, please turn off the power switch after braking immediately.

C. When driving in wet weather, rainy weather or soft road, the braking distance will be reduced. Therefore, for your safety.

- Be careful when braking, accelerating or turning.
- Drive at a slower speed and keep enough braking distance.
- Try to keep the electric bicycles upright.
- Pay more attention when passing smooth surfaces, such as railroad tracks, iron plates, hole covers, painted routes, etc.

Two charge ways for the ebike:

1) Charging directly on the ebike.



2) Charging after removing out battery



Charging steps:

1) When charging, put the charger steadily in a ventilated place, then insert the charging plug into the battery charging hole, and then plug the charger power plug into the AC power source.

Please be sure to keep the input power plug in contact with the AC outlet safely and reliably.

2) When charging, the power indicator light is red. After 5~8 hours of charging, the indicator light turns from red to green, it means the battery is fully charged (Note: Whether the battery is fully charged can only be judged from the indicator light of the charger, not electric on the display).

3) After charging, you should first unplug the charger on the socket, and then unplug the plug connected to the battery. It is forbidden to connect the charger to a live power socket for a long time when it is fully charged.

4) When you smell peculiar smell or the temperature is too high during the charging process, please stop charging immediately and send it to our company's special maintenance unit for inspection.

Maintenance:

1.About the charger

2.Please use our original charger for the battery.

3.The charger only works with the dedicated AC adapter. Using any other adapter may damage the product .

4.When using the charger for the first time, carefully check whether the output voltage rate of the charger is consistent with the battery voltage, and check whether the grid voltage is consistent with the charger input voltage.

5.Be sure to dry the product and the charging connector thoroughly before plugging in the charger.

6.Please do not approach flammable and explosive materials when charging.

7.It is forbidden to use the charger in an environment that is unstable.

8.Do not allow any liquid or metal objects to enter the charger , beware of the impact.

- Do not cover, expose to heat or moisture and use in a ventilated area.
- Do not place other equipment on the charger.
- Do not leave the charger plugged in when not in use.
- Do not use the charger if it is damaged.

9.The external flexible cable of this transformer cannot be replaced. If the cord is damaged, the transformer should be scrapped.

10.Never connect and disconnect the battery connection terminals while the power cable is still connected to the mains. Always remove the plug from the socket first.

11.Do not store your mains charger in low temperature areas. When the device returns to normal temperature, When the device returns to normal temperature, the electronic circuits can be damaged by moisture.

12.Unplug the charger during lightning storms or when unused for
Unplug the charger during lightning storms or when unused for a long time
to avoid damage.

13.There is high voltage in the charger , non-professionals should not open it. Please do not replace the plug and wire of the charger by yourself to avoid safety accidents.

About the battery:

1.Due to factors such as transportation and inventory, the battery power of the newly purchased electric bicycle may be insufficient.

2.Please fully charge the battery before electric riding.

3.Please recharge your battery before it is completely discharged.

4.To have complete satisfaction with your vehicle, please ensure that it is loaded to at least 50%.

- 5.If you store your vehicle, please ensure that the battery is between 30 and 40% autonomy.
6. Please do not exceed 30 days without recharging your battery.
- 7.Please use the supplied charger that matches your vehicle's battery .
8. The excessive discharge will affect the battery life.
9. Be careful not to drop, impact and squeeze the battery pack to avoid danger.
10. Not allowed to be stored or used in the hot sun or a high-temperature above 60°C.
11. Keep the charge port of the battery away from the water.
12. The battery should be kept out of the reach of children. If any battery components are swallowed, seek medical attention immediately.
13. Improper charging, damage, humidity or overheating can emit smoke, explode, cause a strong heat source or start.

Fire on the battery:

1. Do not leave your vehicle to charge unattended.
2. Do not use the battery when the battery is damaged, then please replace it. To reduce the risk of fire or burns, do not dispose it with household garbage. In order to protect the environment, the battery must be deposited at the collection points in force.

About the motor:

- Pay attention to the protection of the motor outlet to avoid short circuit and burn the motor due to abrasion of the motor wire skin. At the same time, pay attention to avoid the motor being soaked in water for a long time to cause water to enter the motor.

About the controller:

1. Take care to protect the exposed wires of the electric bicycle to avoid short-circuiting the controller.
2. It is strictly prohibited to rinse the controller with water.

Mechanical part:

1. The locking group of handlebars, risers, and saddle tubes must reach 18N-m. It should be noted that the risers and saddle tubes must be inserted above the safety score line.
2. The thrust of the locking handle of the quick release accessories must be 15~17NNm, and the release force must be greater than 5Nm.
3. The tightening torque of the front axle nut must reach 18Nm, and the tightening torque of the rear axle nut must reach 30Nm.

Lubrication part:

1.The chains, flywheels, headsets, and bottom brackets need to be maintained regularly. A little lubricating oil needs to be added to the chains and flywheels every month, and lubricating oil needs to be added to the bead nests of the front bowls and bottom brackets every year.

2.When adjusting the chain, loosen the nuts at both ends of the rear axle and adjust the front and rear position of the rear wheel. The chain is tight enough. Press the middle of the chain with your fingers. The upper and lower movement distance is about 10~15mm, and then tighten the rear axle nut.

3.Pay attention to the wear of the front and rear brake blocks. In the case of frequent use, the brake blocks on the brake should be replaced in time to avoid affecting the braking effect and wearing aluminum rings or discs. Note that the braking distance should be appropriately increased when riding in rain or snow to ensure riding safety.

4.Whether the transmission system is shifting smoothly.

- Pay attention to check the tension of the transmission inner cable, the tension of the inner cable can also be adjusted by turning the adjustment screw on the outlet port of the handle or the screw of the rear change lead port;
- The tightness of the chain will directly affect the transmission effect;
- Outer transmission The "H" screw is responsible for high-speed (small flywheel) adjustment, and the "L" screw is responsible for low-speed (large flywheel) adjustment.

5. If you do not follow the above requirements, you will be responsible for all the consequences.

Check item	Initial purchase	60 Days	180 Days	360 Days	540 Days	720 Days
Whether the seat cushion height matches with the rider	A	A	A	A	A	A
whether the steering parts are worn	C	B/D	B/D	B/D	B/D	B/D
Whether the pedals and spindle parts are worn	C	B/D	B/D	B/D	B/D	B/D
Whether the tire is inflated properly	A	A	B	B	B	B
Whether the front and rear hub axles are loose and worn	C	B/D	B/D	B/D	B/D	B/D
Whether the chain is too loose	A	D	D	D	D	D
Whether the brake is flexible and good	A	A/C	A/C	A/C	A/C	A/C
Whether the brake block is worn	A	C	B	B	B	B

Whether the position of the brake handle is appropriate	A	A	A	A	A	A
Whether the crank is deformed	A	C	C	C	C	C
Whether the wire is deflected or deformed	A	A	A	A	A	A
Whether the wire is loose and deformed	A	A/C	A	A	A	A
Whether the mudguard is deformed and worn	A	A	A	A	A	A
Whether the shifting is smooth	A	A	A	A	A	A
Whether assist and electric are responsive	A	A	A	A	A	A
Whether the E-bike lights are normal	A	A	A	A	A	A
Whether the battery charging and discharging is normal	A	A	A	A	A	A

A adjustment / B inspection or cleaning and replacement /C tightening / D lubrication.

Specification parameter list :

GrossWeight	41kg
Net Weight	38kg
Max Speed	25km/h
Range	70-100km
Battery	48V18.2Ah for option
Max Load	180kg
Max Climbing	35°
Water Proof	IPX5
Motor	250/750/1000w for option
Tire	20 inch
Brake	Hydraulic brake
LCD Display	5levels
Charger Voltage	54.6V, 2A
Charger Time	5-8 hours
ProductSize	1650*700*1050(mm)
Packing Size	1330*300*870(mm)

Warranty principle:

- 1) When you buy a electric bicycles, please test and debug it on the spot, and have the right to ask the seller to provide correct usage and maintenance items, provide valid invoices and warranty cards, as well as maintenance units, addresses, and telephone numbers.
- 2) The user should operate and use correctly according to the product manual. For performance failures due to manufacturing quality reasons, the company will perform the guarantee obligation in accordance with relevant legal documents and the national guarantee regulation.
- 3) The company is still responsible for repairing the failures outside the scope of the Guarantee and the main components after the Guarantee period, but charges are applicable as appropriate.
- 4) The battery replacement after the warranty period expires, the company will supply the factory price, but the battery must be recyclable or returned to the manufacturer to ensure safety and avoid environmental pollution.

Scope and content not included in the Guarantee:

- 1) Failures caused by the user's failure to use, maintain and adjust according to the "Instruction Manual".
- 2) Failures caused by dismantling, repairing and refitting by the user, as well as failure to comply with the rules of use.
- 3) Failure caused by improper use or storage by the user or accident.

- 4) Repairs without the consent of the special maintenance unit.
- 5) All parts of the electric bicycle will be guaranteed strictly in accordance with the warranty period.
- 6) If you disassemble the controller, charger, lithium battery, or motor privately, the warranty will not be given.
- 7) When the electric bicycle breaks down, the repair must be carried out in the designated electric bicycles shop or professional personnel, and no parts can be disassembled or assembled without permission. The controller, battery, and charger must ensure that all labels are intact and must not be damaged by humans.
- 8) The warranty is one year, but not including the easy broken parts (like plastic parts) and man-made broken.

Attention: all bikes need be charged by every 3month if no using, otherwise the battery possible have problem.

- 9) The battery warranty adopts a 1:1 warranty, and if there is a battery problem, the battery needs to be returned to the manufacturer. After the battery is tested by the manufacturer, it is judged whether the battery is broken according to the battery test standard, and whether the battery is damaged within the scope of the warranty, then the warranty.

10) The controller will be repaired for warranty. The replaced controller must ensure that all plugins are complete for testing. If it cannot be repaired, the controller will be replaced with a new one. If the controller is damaged artificially, the warranty will not be provided.

11) Pay attention to the maintenance of the electric bicycle and try to avoid riding in the water. The damage to electrical components caused by water will not be guaranteed.