

# USER MANUAL

**Attention!**

Please keep this user manual properly!

To ensure your safety, please read the user manual carefully before using the electric bicycles.

## Security Precautions

Dear users, for your safety and prevention of safety accidents, please read and follow the following tips:

1. When using electric bicycles, you should abide by traffic regulations and pay attention to driving safety.

- (1) It is forbidden for people under 16 years old to drive electric bicycles on the road;
- (2) E-bikes should be driven on non motorized lanes, lower than the maximum speed specified by local laws;
- (3) Do not lend electric bicycles to people who will not operate to avoid injury;
- (4) Electric bicycles shall carry personnel or articles according to laws and regulations;
- (5) Please wear a helmet when riding;
- (6) Riding in rainy and snowy days, the braking distance will be prolonged, pay attention to slow down; Heavy rain and other bad weather, try to avoid traveling.

2. Please pay attention to the safety of electric bicycles.

- (1) Electric bicycles should not be parked in the building foyer, evacuation stairs, walkways and safety exits;
- (2) Electric bicycles should not be charged and parked in residential buildings, and should be kept away from combustibles when charging, and the charging time should not be too long;

(3) Correct use and maintenance of battery:

- When not in use for a long time, please separate the battery from the power cord, and charge it to full every two months.
- It is forbidden to short circuit the positive and negative poles of the input and output terminals of the battery pack;
- Keep away from children, fire sources and heat sources, and it is forbidden to put the battery pack into the fire;
- Strenuous vibration, impact and extrusion of the battery are strictly prohibited;
- Pay attention to waterproof to prevent battery pack from being exposed to water shower and immersion;
- The battery pack should be charged with use. When not in use for a long time, be sure to remove it from the bike for storage;
- The battery pack should be stored in a clean, dry and ventilated place, and should avoid contact with corrosive substances, away from fire sources and heat sources;

• **Warm tips!**

A. Water inlet is not guaranteed, please use the original charger to charge;

B. Do not charge in the kitchen, living room, bedroom and other domestic places;

C. Storage Conditions of battery pack: ambient temperature-20~35°C. The temperature of battery operation: -10~45°C.

(4) Safe use method of charger:

- It is forbidden to place any items on the charger;
- It is forbidden to put any liquid or metal into the charger;
- It is strictly prohibited to disassemble and modify the charger;
- When charging, insert the output of the charger into the charging port of the battery pack

first, and then insert the AC power plug of the charger into the Mains socket;

- It is forbidden to plug and remove the power plug with wet hands;
- Do not use the charger when thunder and lightning;
- Do not play with the charger and battery pack when charging;
- Do not use the charger in unstable, excessive lampblack and dust and excessively humid environments;
- Keep good ventilation and heat dissipation conditions when the charger works, and avoid using the charger in direct sunlight;
- When the output of the charger is not connected to the battery, do not connect the charger to the mains for a long time;
- During the charging process, the indicator light of the charger is red. When the indicator light turns green, means the battery is fully charged.

**Note:** when replacing the charger, it should match the battery model; The special charger provided by our company must be used, and other Chargers are not allowed to charge the battery pack.

(5) Precautions for washing:

When washing the bicycle , do not directly splash water on the brake drum, motor and front and rear axle to prevent water from affecting the service performance and life;

- Do not use steam or high-pressure water pipes when washing bicycle;
- Pay special attention to the working condition of the brake after cleaning the vehicle or driving in the water. After cleaning or driving in the water, the braking effect may decrease. At this time, pay attention to safety when driving slowly.

(6) Adjustment of handlebar and saddle (if applicable):

- When adjusting the handlebar or saddle, be careful not to expose the safety line mark of stem and saddle pipe;
- After adjusting the horizontal pipe, stem, saddle and saddle pipe, pay attention to fastening, and the recommended torque is 18N.m.

**Danger:** waste batteries shall not be dismantled without authorization, and shall not be discarded at will to avoid environmental pollution; The waste batteries of this product shall be recycled by the enterprise or distributors or government designated outlets.

**F1-1000W**



**F1-2000W**



**S1-2000W**



## **My E-Bike Serial Number:**

**For future reference , please fill in the important information below. The serial number is located on the bottom of the bike frame (near the left crank) or on head tube.**

# Assembly Instructions

## F1-1000W



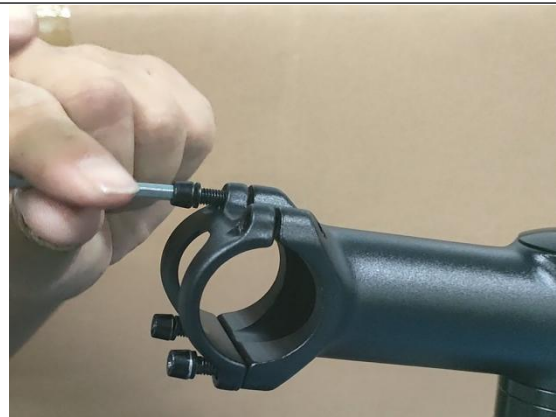
01.Remove the packing foam



02.Turn the stem forward



03.Tighten the top bolt



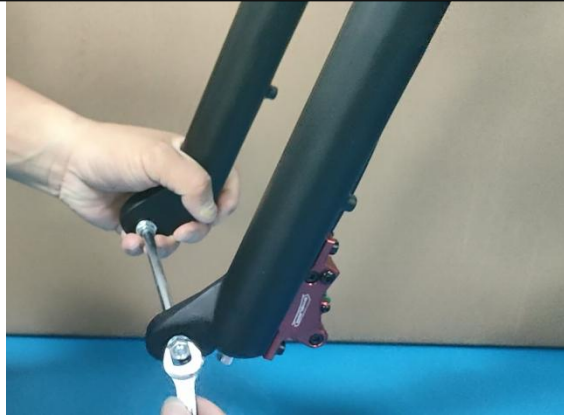
04.Remove the 4 bolts



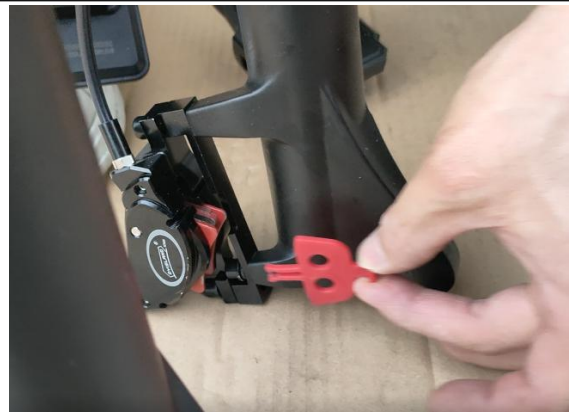
05.Fit the stem and handlebar together



06.Tighten the 4 bolts



07.Remove the retainer that protects the fork from deformation



08.Remove the spacer in the caliper on the fork



09.Put the disc rotor into the caliper and put the axle into the hook on the bottom of the fork



10.Get the quick-released skewer. There are two springs



11.Unscrew the nut of the skewer, remove one spring



12.Insert the skewer from the disc brake side



13. On the other side, put the spring (the larger side of spring faces outward)



14. Tighten the nut of skewer until the lever becomes firm to close



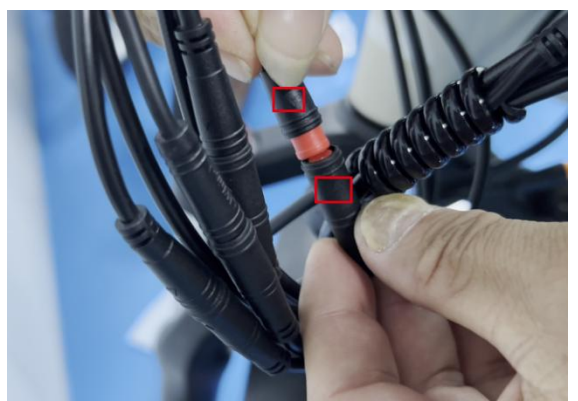
15. Lock the skewer tightly



16. Clamp the front tire with knees and adjust the direction of handlebars, tighten the 2 bolts on both sides



17. Install the phone holder on the right side of handlebars (there is a USB charging port on the bottom to charge the mobile)



18. Connect the phone holder cable (align the arrows)





19.Sort the wire harness, put the phone holder cable inside the harness



20.Take out the headlight, two turning lights and the light bracket



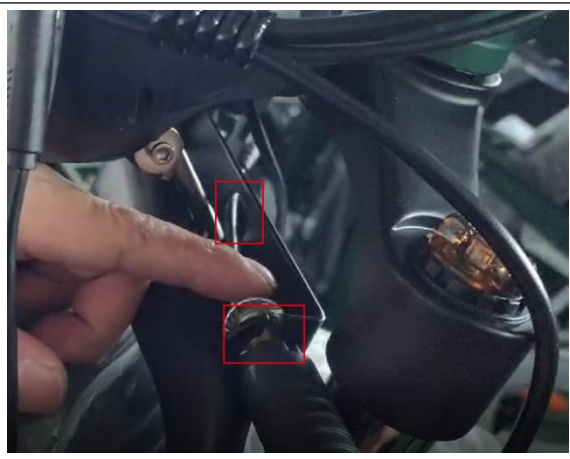
21.Put the headlight and then front fender on the fork



22.Put on the light bracket and tighten the nut by wrench



23.Loosen the nut of one turning lights



24.Put one turning light through the left hook of light bracket, tighten the nut and fix the left light on bracket (the light should face forward), put the cable of left turning light through the middle hole of bracket



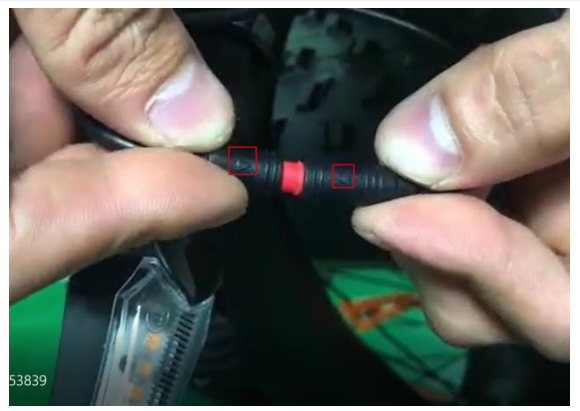
25. Install the right turning light on bracket, put the cable of right turning light through the middle hole of bracket



26. Put headlight cable through the middle hole of bracket.



27. Find the 3 light cables from the harness, Connect the headlight cable (connector is blue, pls align the arrows on the connector)



28. Connect the left and right turning cables (connectors are red, pls align the arrows on the connector)



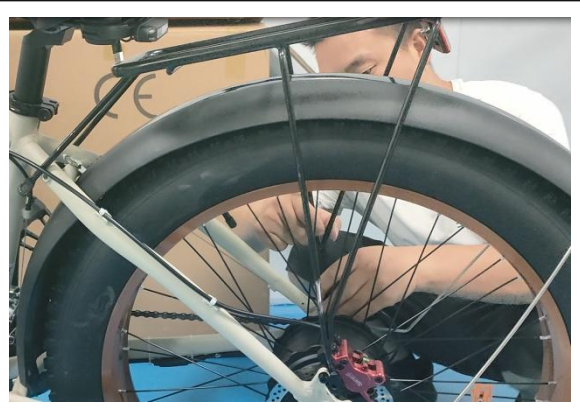
29. Insert the seat post, tighten the nut and quick-released lever



30. Put the Left & Right pedals correctly into the cranks



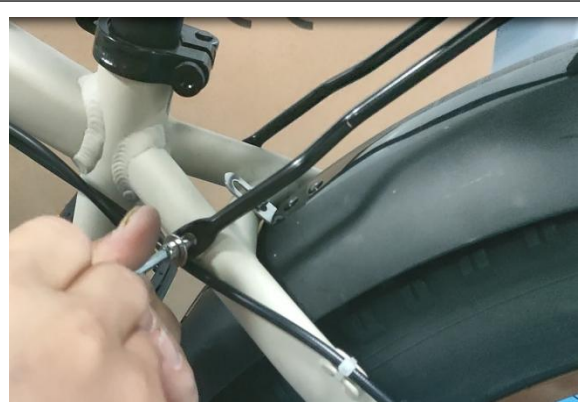
31. Twist in the pedals and tighten the pedals by wrench. Please note the direction of rotation



32. Install the rear rack. Some adjustment may be needed for the best fit. The rack prongs can be bent at different angles by force



33. Tighten the lower bolts first



34. Then tighten the top bolts



35. Install the rear light on rear rack, tighten the nuts by wrench



36. The rear light should be installed like this



37. Use cable ties to fix the rear light cable on the rack



38. Get the battery keys from the handlebar



39. Insert the battery key into the key hole



40. Put the battery on the frame and lock it. Ensure the battery is locked tightly on the frame



41. Press the ON/OFF button for 2-3 seconds to turn on the LCD display, now you are ready to go



42. Light instructions:  
ON/OFF button;  
turn left/right;  
horn button

**S1-2000W F1-2000W**



01.Remove the packing foam



02.Remove the red spacer in the caliper on the front fork



03.Remove the retainer that protects the fork from deformation



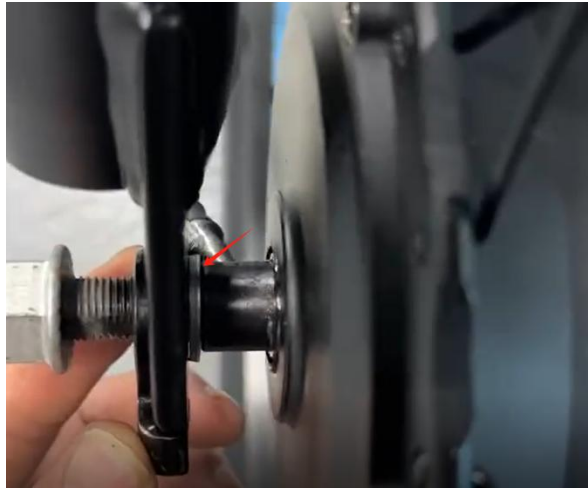
04.Remove the 4 screws on the bottom of the fork



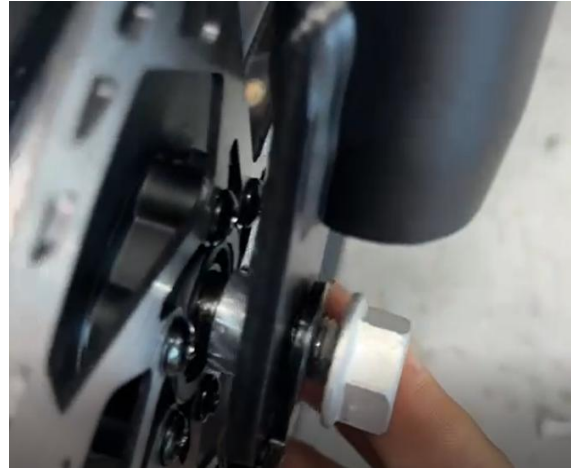
05.Loose the nut on both sides of front motor axle, move the black retaining washer to the end



06.The motor wire should be on the right side, and backwards; the disc brake is on the left side. Put the disc rotor into the caliper and put the axle into the hook on the bottom of the fork



07. On the right side: the small washer should be inside, then put the axle into the hook on the bottom of the fork



08. On the left side: the silver washer is beside the disc brake



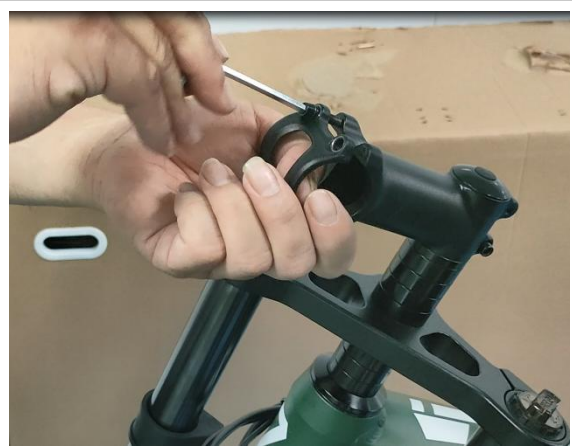
09. Twist in and tighten the 2 small screws by tool at the bottom of fork on both sides



10. Put the nut into the motor axle and tighten it by wrench, first tighten the nut on the disc brake side, and then the motor cable side



11. Turn the stem forward



12. Remove the 4 bolts of stem



13. Fit the stem and handlebar together



14. Tighten the 4 bolts



15. Clamp the tire with knees and adjust the direction of handlebars, tighten the top bolt first



16. Tighten the 2 bolts on left and right sides



17. Attach the black stand to the back of the phone holder



18. Install the bracket on the handlebar, tighten the screw



19. Put the nut inside the sphere



20. Twist in the phone holder, tighten the nut, now the phone holder was installed tightly



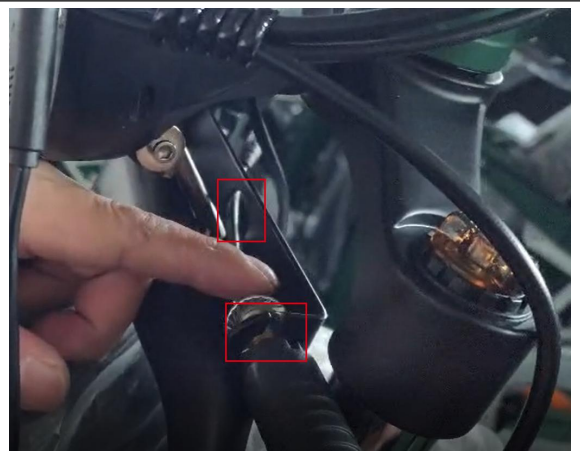
21. Put the headlight and then front fender on the fork



22. Put on the light bracket and tighten the nut by wrench



23. Loosen the nut of one turning lights



24. Put one turning light through the left hook of light bracket, tighten the nut and fix the left light on bracket (the light should face forward), put the cable of left turning light through the middle hole of bracket

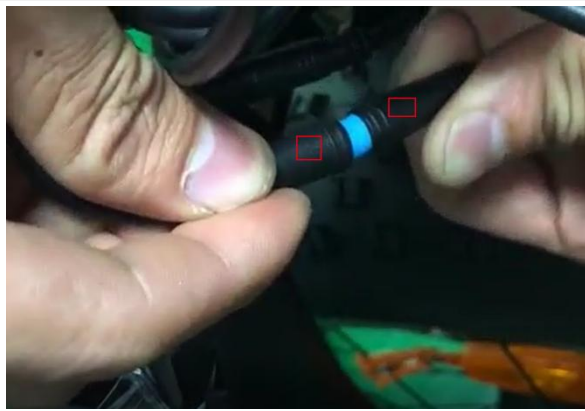




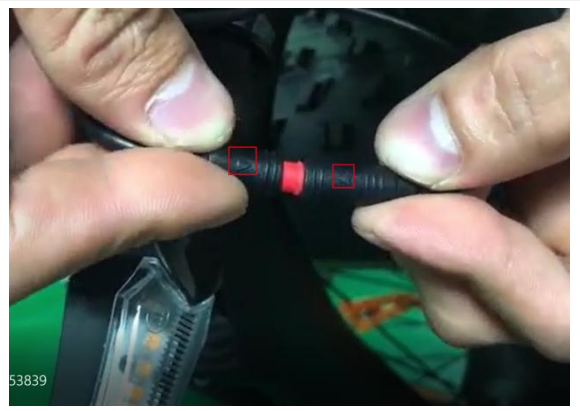
25. Install the right turning light on bracket, put the cable of right turning light through the middle hole of bracket



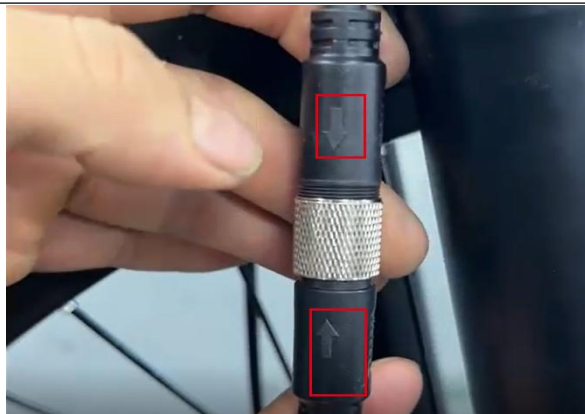
26. Put headlight cable through the middle hole of bracket.



27. Find the 3 light cables from the harness, Connect the headlight cable (connector is blue/green, align the arrows on the connector)



28. Connect the left and right turning cables (connectors are red, align the arrows on the connector)



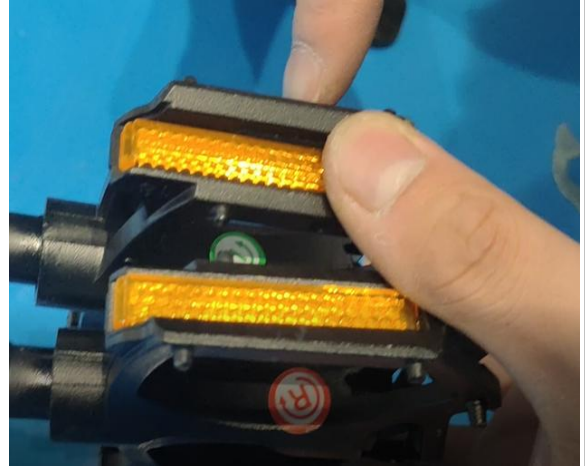
29. Align the arrow of the front motor cable and connect it, twist the silver nut and tighten it



30. Fix the front motor cable to the fork with a cable tie. Fix the front fender support to the fork



31. Insert the seat post, tighten the nut and quick-released lever



32. Put the Left & Right pedals correctly into the Left & Right cranks (The two pedals are different and cannot be exchanged)



33. Twist in the pedals and tighten the pedals by wrench. Please note the direction of rotation



34. Install the rear rack. Some adjustment may be needed for the best fit. The rack prongs can be bent at different angles by force



35. Tighten the lower bolts first



36. Then tighten the top bolts



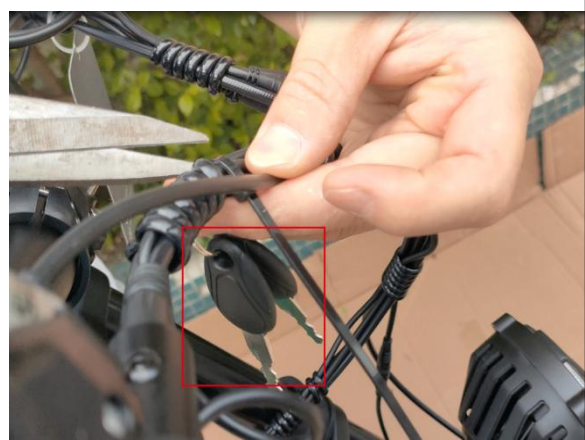
37. Install the rear light on rear rack, tighten the nuts by wrench



38. The rear light should be installed like this.



39. Use cable ties to fix the rear light cable on the rack



40. Get the battery keys from the handlebar



41. Insert the battery key into the key hole



42. Turn on the battery button



43. Then press the battery indicator light button, there will be 4 lights on; release the button, lights off



44. Put the battery on the frame and lock it. Ensure the battery is locked tightly on the frame



45. Press the ON/OFF button for 2-3 seconds to turn on the LCD display, now you are ready to go

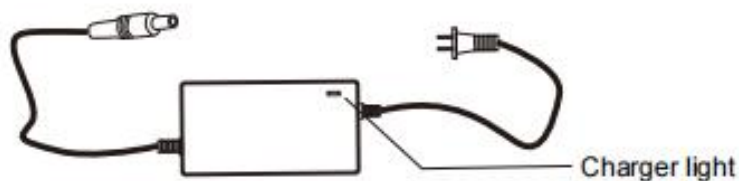


46. Red front motor switch to turn on/off the front motor;  
A USB charging port under the button to charge the cell phone



47. Light instructions:  
ON/OFF button;  
turn left/right;  
horn button

## Charging & Travel Range



Charger light:  
- Red light indicates normal charging  
- Green light indicates charging completed

### FULLY CHARGE BATTERIES BEFORE FIRST USE

- Please fully charge the battery when you receive it: the charging time for 48V 16AH battery is 4-6 hours; the charging time for 48V 22.4AH battery is 5-8 hours.

### FACTORS TO MAXIMIZE THE RANGE OF YOUR ELECTRIC BIKE:

1. Ride Input - The more the rider pedals, the longer the range. Continuous riding, as opposed to frequent stopping and starting will yield the greatest range possible.
2. Elevation Gain - The flatter the road, the longer the range.
3. Weather - Cold weather can affect the battery capacity. The range will be shorter in cold weather.
4. Wind - Riding with a tailwind will increase the range, riding with a headwind will decrease the range.
5. Terrain - The smoother the terrain (roadways vs fire-roads etc.), the further the distance travelled.
6. Rider Weight - The lighter the rider, the less drain on the battery and the longer the range.
7. Bicycle Maintenance - A properly maintained bicycle will yield the greatest range possible.
8. Tire Pressure - Properly inflated tires have less rolling resistance and will be easier to pedal.
9. Battery Maintenance - Properly charged and maintained batteries will yield the greatest range possible. Batteries stored in cold areas (below 50 degrees Fahrenheit / 10 degrees Celsius) will show reduced range. Batteries that have not been kept in optimum condition will show reduced range and run time.


## LCD Display Instructions



### 1. Riding Modes:

- Pedal assist mode - PAS (5 levels)
- Pure electric mode (throttle mode)
- Pure human riding mode
- Walk boost mode
- Cruise mode

### 2. Switch on and off:

Long press power button  for 3 seconds to turn the display on/off.

### 3. Switch Speed Grade:

Press the +/- button to switch the pedal assist levels (speed levels).

### 4. PAS 0 level instructions:

When PAS is set at 0 level: at this time, the motor doesn't work when you turn throttle grip, and the human riding has no electric power.

### 5. PAS 1-5 level instructions:

When PAS is set at 1-5 levels: turn the throttle grip, the motor works, and PAS starts at the same time. At this time, different assist and speed are matched according to the selected speed levels. The higher the PAS level, the faster the speed.

## Care & Maintenance

### Tips:

Pure Electric Mode (i.e. using throttle only) is for relatively flat roads.

Do not use Full Electric Mode on deep slopes or rough roads or beaches, otherwise excessive resistance will cause the motor or controller damage. If the road condition is unsuitable or too rough, please use PAS (Pedal Assist System) mode. PAS is when you use your feet to pedal in order to help the motor overcome resistance.

The power assisted mode match with the gear shift to achieve the riding experience of labor-saving and power saving. In the setting of power assist riding, on few slopes and good road conditions, it is recommended to match with variable gears, 7-6 high-speed gears, with the best power-saving effect and speed ratio.

Riding with power assisted mode, if use speed shifting and climbing mode on flat road will waste electric power and accompany with the feeling of empty treading.

### Maintenance and use skills of electric bicycle

The maintenance methods of electric bicycle under different use conditions mainly include the following points:

#### 1. Influence of temperature:

The applicable riding temperature is from -10 to 40 degrees Celsius (from 14 to 104 degrees Fahrenheit).

Temperature has an impact on the use of lithium-ion batteries. For example, if the temperature is below 0 degree Celsius (32 degrees Fahrenheit) in winter, the riding mileage will be shortened, because under this condition, the battery capacity can only be released by 60%-70%. Therefore, the range in winter will be less than in summer.

#### 2. Charging guide:

A. When the temperature is low in winter, the battery should be placed indoors, and the charging should also be carried out indoors.

B. In summer, please avoid the sun exposure of batteries. And avoid charging the battery at high temperature. Do not charge for too long. The battery should be charged for another one or two hours after the red indicator turns green.

#### 3. Riding in rainy or snowy days:

The electric bicycle has good waterproof performance, it can be ridden in rainy and snowy weather, but when passing through puddles and ponding and other roads, please pay attention to the wading height, which shall not be higher than the motor, so as to prevent the motor from damage caused by water inflow. Do not use a high-pressure water gun to wash the electric bicycle, so as to avoid damage caused by water entering the electronic parts and accessories.