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# GENERAL INSTRUCTIONS

## DEAR USER:

We would like to greet you and thanks for buying our electric bikes. You're one step closer in realizing a new way of commuting that is fast, fun and friendly to the environment.

Our electric bikes incorporated the advantages of bicycles while utilizing the cutting edge technology to ease the transition from petro-dependency into a cleaner and healthier lifestyle. We pledge to quality means that our components are high value and reliable. They have safety devices for correct usage. It's your part to understand safety implications and the possible risks of cycling. In order to ensure your safety during riding, please read this manual book carefully.

## Special Instruction

- This manual book is sketch map only for illumination and operation, which can not be the final standard of the product inspection
- In case that there is some difference or unconformities with this manual due to the technical improvement, please show your understanding.
- It is recommended not to modify any of the technical characteristics of this E-Bike.

# ASSEMBLY

## General Assembly Instructions:

Each ebike was well assembled and strictly checked before leaving the factory. When packing, we usually remove the front wheel and handlebar of some e-bikes for safe transportation. However, you could install them very easily according to the guidelines below:

**Tools required:** Spanner; Allen key; Screwdriver, etc. We sent you a set of tool kits for each ebike.

- **Front wheel:** Put the ends of the front wheel hub in the fork ends and then tighten the wheel, make sure it's perfectly aligned and secure. The quick release mechanism must be seat square and firmly tightened to ensure safety. Tighten the brake levers in their correct positions.
- **Handlebar / Stem / Headset:** Handlebar and stem comes pre-assembled. Loosen bolts on the stem and insert and turn the handle bar assembly until it is in right angles with the frame. Align handlebars so it is perpendicular to the front wheel. Then tighten. Use the Allen key.
- **Pedals:** The right-hand pedal (marked "R" on the pedal shaft) must be fitted on the right-hand crank and tightened firmly clockwise. The left pedal (marked "L") should be fitted on the left-hand crank and tightened firmly anticlockwise but not excessively, as the crank threads are made of aluminum alloy. Use the 15mm spanner.
- **Seat post :** Insert into the seat tube of the bicycle frame and align. Tighten clamps and ensure seat is firmly fastened.

**Note!** Do not adjust the seat post beyond its maximum extension mark.

- **Brakes:** One of the most important safety features on the bicycle. To minimise the risk of injury, it's vital to ensure they are corrected adjusted. Ensure that the V-brake blocks are parallel to the rim, and that the distance between them do not exceed 2mm, and then tighten the brake mounting bolts. Squeeze brakes to test its responsiveness.

Models that come with disc brake options, check that the wheels rotate freely without touching the pads.

If you have little experience with bicycle maintenance we recommend you get this done with your local bike shop.

## CHARGING INSTRUCTIONS

- You shall use the charger which should match this bike (never use a charger from a different model). Before charging, you must turn the power switch to “OFF” and pull out the key. Keep the charger in a dry and ventilative condition when it's working.
- The charger is designed for indoor use only. Keep the charger away from water to avoid short circuit. Don't even use it in a dampening, combustible or explosive environment. Do not remove the plug by pulling the cord, always grip the charging port by its metal body.
- Firstly connect the output plug of the charger with the socket of the battery case properly, and then insert the input plug into the AC electrical outlet. And the charger indicator will light on, which means it's on charging.
- When the light turns from Red to Green, it means the battery has been fully charged. Usually it will take about 4-6 hours to recharge the battery depend on different status. However, it's a good suggestion that it's be charged for additional 2 hours after the light turn to green if you have time (It is good for the service life of the battery).
- Do not charge it for more than 10 hours to avoid overcharging and damaging the battery. After the light turns GREEN, the charger is in the state of trickle electric current and “fill slowly ” and maintain the state. If you are going to be out for a long time, you should pull out the charger plug, especially in hot weather.
- The charger will become warm during charging, so keep charger away from any heat source. Please always keep the charger dry and clean. The electronics inside contain high voltage, so please don't disassemble the charger by yourself.

- After charging, please pull the input plug out of the electrical outlet first, and then pull out the output connecting plug from the battery case. Do not let the charger plugged into the battery or electrical outlet for a long time, which may damage the charger and cause the fire.
- While charging, please keep it out of the reach of children. Do not put anything on top of the charger when use, and prevent any liquid, metal or metal fillings to permeate into the charger.
- You can also remove the battery from the bicycle and then charge it. You should lift the saddle with the lever that is underneath it, which will enable you to remove the battery. Before you do this, you will have to unlock the battery with the ignition key. When you finish charging, replace the battery, drop down the battery along the slide bracket and then lock the battery with the ignition key.
- Do not touch the any two poles in the battery case with your hands when the battery is removed for charging. Also the charging connector poles cannot be touched with any metal or any other material that conducts electricity, otherwise it may cause short circuit.
- If you don't ride your e-bike for a long time, the battery should be charged at least one time per month. This will ensure the battery life. DO NOT use in the state of low battery capacity. Do not leave your battery in a fully discharge state for long periods of time. The battery will continue to self-discharge, resulting in damage.
- Avoid any contact with water when charging your battery. If a plug or socket gets wet, dry it completely before using.
- When charging, if there is a peculiar smell or the temperature is extremely high, please stop charging immediately and send to the local distributor or to the Customer Service Center.

**Note! Please read the charger manual enclosed in detail before using.**

## SAFE RIDING REQUIREMENTS

- ◆ Please obey the local traffic regulations for riding this type of vehicle.
- ◆ Please read this instruction manual carefully before you ride the electric bike for the first time.
- ◆ Regularly check the tire pressure to facilitate pedaling and minimize battery consumption.
- ◆ Please always check the brake to make sure they are working correctly. Adjust it well enhance the brake sensitivity if needed. Please use the brake in advance and reduce the speed in snowy or rainy day.
- ◆ Please hold the handle by both hands except you need notify others for turn around.
- ◆ Please open the light in dark or low-visibility conditions. Please push the bike, if you can not use the light by foot during riding in case that you be damaged by the involvement or instability.
- ◆ Make sure your body and other objects do not come into contact with the chain or the wheels in case of damage.
- ◆ Prohibit touching charging connector on the battery case with your wet hand, key or other metals in case they damage the battery pole and cause short circuit.
- ◆ Wear bright clothing to help make you visible to other motor vehicles when you are riding at night.
- ◆ Don't lend the electric bicycle to anyone who doesn't know how to operate it.
- ◆ Like other cycles, it can only carry one person, carrying a passenger is not permitted.
- ◆ To brake, the rider must action both brake levers to the correct degree.
- ◆ Never ride the electric bike under the influence of drugs or alcohol.
- ◆ Do not ride under bad condition, such as uneven ,wet or loose surface
- ◆ If possible, do not ride in adverse weather conditions, low visibility or if you are very tired for the sake of safety.
- ◆ This electric bicycle can be used in the rain; however, it must not be submerged in water or puddles. The controller, motor and other electrical devices may be short circuited, causing damage and created possible dangerous situations.
- ◆ Never use sprayed water to flush your E-bike, don't get the electrical components wet (battery connector, motor, controller, cables, handlebar controls, etc)
- ◆ Don't let children under the age of 10 ride the E-Bike

# RIDING INSTRUCTIONS

## Check before riding it for the first time:

The bicycle was assembled and checked before leaving the factory, nevertheless, before using for the first time, check the following elements:

- First check to see that whether the battery is fully charged and locked well
- Check the air pressure of the tires is normal
- Check and make sure the front and rear brakes are working properly
- Check the tightness of the front and rear wheels
- Check and make sure the handlebar and saddle are fastened tightly enough. Make sure the quick releases are locked and all locknuts and screws are tightened.

## Riding:

- Turn on the power switch (turn the ignition key to "ON" position), the power display indicator will light on, which means power connected.
- **EPAC/Pedelec:** Just like riding the normal bicycle, uprear stand and ride on saddle, put one foot on pedal and ready to ride after you check ALL is OK. Then pedaling, and when you reach a certain speed, the motor is activated automatically and then starts working and moving your E-Bike. To stop the bicycle motor, just stop pedaling and the motor will stop automatically. To bring the vehicle to a halt, use the brakes.
- **E-Bike with Throttle :** Firstly pedaling a few cycles and then rotate the throttle (anticlockwise) to increase the speed. When you use the throttle, please accelerate it gradually, don't try to get the max speed instantly, which would be bad for the electrical components and battery.
- While starting or climbing, pedal as much as possible so that the battery power will not be drained severely. Also, more pedaling could be good for the service life of the battery and motor.
- The brake has power cut-off function, if either of the brake lever is pulled, the power will be cut off automatically and then the motor will not work.

**Variable Power Assist (VPA):** In lieu of a throttle, you may have received or chosen a variable power setting dial. This set-up is only compatible with Pedelec mode ebikes.

The dial settings provide you with three levels of power assistance achieved by the motor during pedaling, and you can choose different power according to different road conditions. This is especially useful for long treks or when you do not wish to fuss about with a more sensitive throttle.

**Battery level gauge :** When the battery power is getting low, the lights turn to be wink (the indicator light will darken one by one), at this time you should turn OFF the power switch and use the pedal to ride, just like regular bicycle (No Electric). You will have to charge the battery when you get to the electrical outlet, and enjoy the electric power after it's fully charged.

### **Parking:**

Shut the power "OFF" and pull out the key of the battery case while parking. Also, the power switch should be turned "OFF" when pushing so that you don't start up the motor by accident. Use a chain lock to further secure your bicycle when necessary.

**Notes:** Don't expose the e-bike to sunlight or rain for a long time, or some electrical components may behave abnormally.

### **Special Note:**

If you use the brake frequently, switching the bicycle ignition on and off (stop the ebike and restart it) continuously, riding against the wind, riding uphill and carrying more weight will influence the performance of the battery, making it last less time and travel less distance. We recommend you to follow this advice and try to avoid doing like that if you want the distance traveled to be as long as possible.



# MAINTENANCE

**ATTENTION:** Before carrying out any sort of maintenance, turn off the power switch and remove the ignition key firstly.

✧ Do some physical riding and safety check same as normal bicycle. Always wipe and make your bike clean. For the battery pole, when it is dirty, you shall clean it in case that reduce the efficiency or burn the poles. Your E-Bike should undergo an annual check-up. This will keep it in good working condition.

## ✧ **Adjust chain tension:**

Chain may become loosen after using certain period of time, please adjust as following:

Loose the bolts on rear shaft, if the chain is too loose, please adjust the Chain Bolts on both side in clockwise and get the good situation. If the chain is too tighten, please adjust the bolts in counter-clockwise. Keep the crank gear and wheel gear aligned. However, if you can't adjust it well, maybe you can come to the dealer shop for help.

## ✧ **Adjusting the brakes:**

Correct brake adjustment will make the controls work easier and offer greater safety to the rider:

The brakes are adjusted in a similar fashion to any standard bicycle. It is important for the brakes to work correctly and that the electric cut-off devices to be in working order (Electric cable to the brake levers).

Once the brakes have been adjusted, make the wheels turn to ensure there is no

Binding and check that when either of the brake levers are pulled, the motor stops working.

## ✧ **Lubrications:**

For long –life service the following parts of your E-Bike should be regularly lubricated every half year:

Front axle; Chain; Rear axle: Freewheel, Front fork and other rotation parts.

For electrical parts, the user needn't clear them because they are lubricated in factory. If you find anything wrong, please go to the local customer service center for help.

### ✧ **Cleaning:**

The E-Bike should be cleaned with a damp sponge, taking special care not to get electrical parts wet (Battery connection, motor (rear axle), electric cables, handlebar controls, etc.). Dry with a cloth.

When clean your electric bike, do not use a steady direct stream of water from a hose. Use a cloth to avoid short circuiting any electrical components. Your electric bike has a durable finish and does not need waxed. Clean with a mild detergent and buffing to restore its original shine if needed.

## **TROUBLESHOOTING**

Problems	Possible causes	Solutions
Turn the power switch to “ON” position, the indicator light don’t light on, the motor can’t work , there is no electric power on the bike	1.Battery is completely discharged 2.The electric cable connecting the battery is loose 3. The fuse has burnt	1. Charge the battery 2. Fix the cable firmly 3. Change the fuse
The traveling distance getting shorter	1. Insufficient battery capacity 2. The battery getting old and exhausted 3. Braking frequently, riding uphill or running against the wind continuously	1. Charge the battery fully 2. Change the battery 3. Use more pedaling
The indicator doesn’t light on when charging	1.The connecting cable is getting loose 2. The fuse burnt out 3. The charger damaged	1.Insert the socket firmly 2. Change the fuse 3.Change the charger
Other troubles	Any problems in electrical components	Ask the local dealer or service centre for help