

User Manual



Please read the manual carefully before operate scooter

Chapter 1 Introduction

This scooter is designed with 5 patents. It is fashionable and casual, and is of an unique style. Its structure is very simple but not common.

You will love it at the first sight! Here is the size for scooter:



Chapter 2 Overall view



1. Throttle

2. Brake

3. Display

4. Front light

5. Front turning light

6. Front suspension

7. Front reflector

8. Rear suspension

9. Rear turning light

10. Seat

11. Motor

12. Pedal



13. Rear reflector

14. Back light

15. Rear fork plastic cover

16. Rear motor with tire

17. License plate install

18. Seat lock

19. Footboard

20. Alarm

Chapter 3 *Main Technical Parameters*

I. Main technical parameters of the scooter

1. Product Size:	2000*430*1600mm
2. Wheel:	1530mm
3. High:	1600mm
4. Weight:	85kgs
5. Tire specifications:	215/40-12inch
6. Maximum load:	180kgs
7. Design top speed:	≤85km/h
8. Range:	40~120km
9. Maximum torque:	120N/M
10. Maximum climbing:	≤25
11. Braking performance(20 km/h):	Dry:≤1m; Wet:≤3m.

II .Main technical parameters of battery

1. Battery type:	Li-batteries
2. Capacity:	20AH-60AH
3. Nominal voltage:	60V

III . Main technical parameters of motor

1. Motor models:	Brushless dc motor hub
2. Rated power:	1500W/2000W/3000W/4000W

IV . Main technical parameters of controller

1. Current limiting protection value:	70 + 1A
2. Under-voltage protection value:	48 ± 0.5V

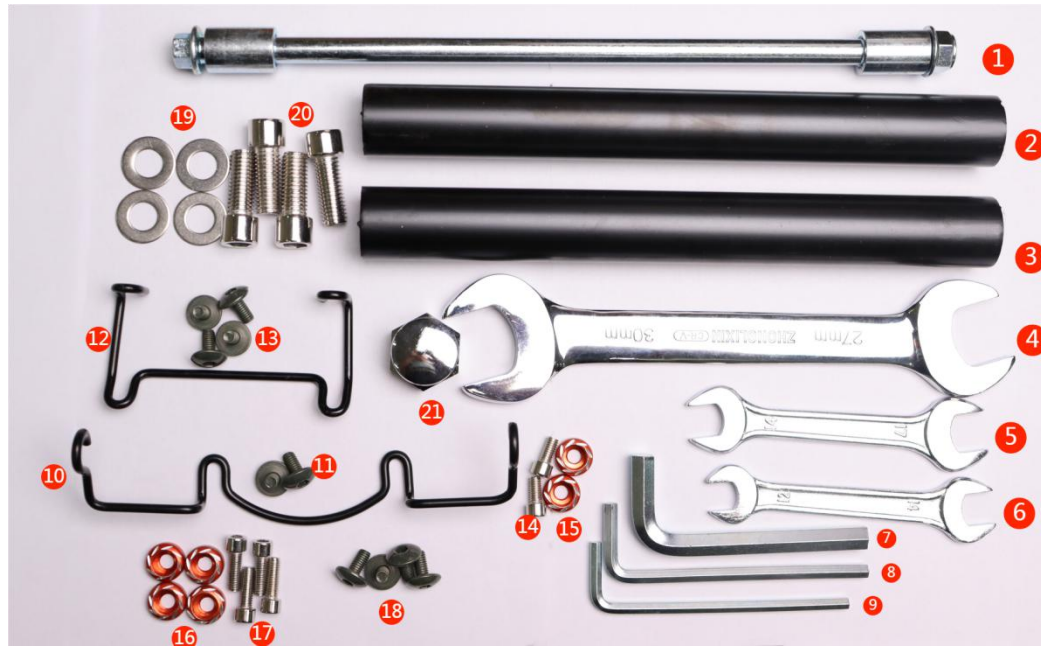
V . Charger main parameters:

1. The input voltage(ac):	100-240VAC50/60HZ
2. The output voltage(dc):	67.2~5.0A
3. Charging time(the remaining power the case may be):	3-4 h

Note: The above parameters change, the company without prior notice, see company technical Parameters of model library!

Chapter 4: Assembly scooter tools and parts

When you received scooter, you will find tool bags with below things.



1	Front axle with spacer/nuts	12	Front light holder
2	Front left pipe	13	Front light holder screws 6×12
3	Front right pipe	14	Hexagon 6×12 for display
4	Wrench 30mm	15	Colourful cover for Num14 screw
5	Wrench 14-17	16	Colourful cover for front fender
6	Wrench 12-14	17	Hexagon 6×18 for front fender
7	Hexagon M10	18	Hexagon 6×12 for rear side fender
8	Hexagon M6	19	Gasket
9	Hexagon M5	20	Hexagon 12×30
10	Front turning light holder	21	Big nuts
11	Front turning holder screws		

*If packing method change, the things inside tool bag may change. There will be no more further inform.

Below pictures are guides:



Throttle guides:



1: Slow-Middle-Fast 3 speed function cable

2:Key

3:Mirrior

4:Display

5: High Beam

6:Backward

7:Left/Right turning light

8:Horn

Chapter 5: About drive

1. Driving method

- ① Keep the natural posture, and free driving can be got.
 - ② Driving in sitting posture: please always keep your body at the center of the cushion to prevent load reduction of the front tyre and danger caused by handlebar vibration.
 - ③ Driving in standing posture: when speeding up, you should turn the turning handle slowly. Danger caused by instability due to sudden speeding-up should be avoided.
 - ④ Drive it slowly on roads with surface damaged or that paved with gravels.
- In raining or snowy days, wet ground will easily cause side slip, so you should drive it slowly with much attention. When the water accumulated on roads becomes above the cell box located underneath the pedal, do not drive it, so as to prevent electrical parts damage caused by short circuit. Meanwhile, braking performance will decrease, which will cause accidents easily.

2. Parking method

- ① When parking, please pay attention to those vehicles and pedestrians around. Park it to the right side of flat road slowly, do not park it on a slope.
- After parking it stably, turn the power supply lock rightwards to pull it out and take it down, and then lock the bicycle with a lock.

3. Operation method for electricity indication

After the power supply lock is connected, the voltage indicator light will be turned on. At full charge of capacity, there are green, yellow and red light, with 5 grids in total. The green light has three grids, with each grid of 25% of rated electricity; each grid of the yellow light is 20% of rated electricity; while each grid of the red light is 5% of rated electricity. The yellow light going out while the red light going on indicates that there is no electricity left, so when you find that the blue light goes out, you should charge the bicycle immediately.

4. Operation method for power supply lock:

After the key of the power supply lock is turned by a shift in clockwise direction for connection, the motor can be started up. During driving, you do not remove the key and switch off power supply, nor can you turn the key in counterclockwise direction to close the power supply local. Once you switch off the power supply, the motor will stop running. After parking, you should turn off the power and pull the key out.

5. Turning handle(speed-governing handle)

If the turning handle is turned towards the driver, the scooter will be speed up; and if it is released to turn back, the speed will be reduced. After reset, cut off the power supply of motor.

6. Operation method of disc brake and considerations

(1) Operation method of disc brake

① Brake clearance adjustment: turn the adjusting screw which is located between the braking handle and the handlebar tube using a 2mm Allen wrench, adjust the clearance between braking pads and the braking disc until your hand feeling is comfortable.

② Replace the braking pad when braking pads are worn off by more than 1mm or the adjusting screw of braking pads are adjusted to the end position or every half a year. When replacing braking pads, press in one of braking pads using a clean slotted screwdriver to vacate space for taking out the other braking pad. After replacement is complete, it is needed to return the adjusting screw of braking pads to a suitable position (a position that makes your hand feeling comfortable).

③ Run-in period: the run-in of disc brake surface needs a certain time. After complete run-in, braking force will increase significantly. The first week in which you use a new disc brake is the run-in period.

During run-in period, do not brake with too great force, otherwise un-recoverable damage will be caused to braking pads and braking body. The correct operation method is to brake slightly during driving, so that there is appropriate friction kept between braking pads and the disc brake.

④ Oil replacement: this disc brake adopts mineral oil, which should be replaced (2~3 years in general)

When the braking handle is felt weak. Replace oil using an injector.

(2) Considerations

① Do not use lubricating oil around the disc brake and braking pads, as well as the calliper. Do not touch the surface of disc brake and braking pads with hands, otherwise braking performance will be reduced significantly.

② You'd better not shower a new brake to prevent a small quantity of lubrication grease in assembling clearance from contaminating braking pads.

③ Oil hydraulic disc brake has strong braking force, you need to do much exercise at a safe place, so as to adapt to the difference from a common brake to avoid braking with too great force, resulting in injury due to wheel lockup.

7. Operation method of the charger and considerations

(1) Operation method

① When charging, plug in the plug of cell box first, then that of electric supply AC220V. When charging is complete, take the counter procedures, that is, unplug the plug of electric supply AC220C, then that of cell box.

② During normal charging, the indicator light of the charger shows red. When fully charged, it will show green;

③ If Charging ambient temperature is too high, the red light will flash, which indicates that the charger is in the temperature protection state. Please take the charger to a cool or well-ventilated place. When the inside temperature of the charge lowers to 60°C, normal charging occurs.

④ If there is no cell connected during usage, what the charger output is a pulse voltage

less than 42V.

When testing, Place a 1KΩ ohmic load between the positive and negative output terminal, then actual charging voltage of the charge can be obtained.

(2) Considerations

- ①The charger can only be used indoors,
- ②Charging in a closed space or under scorching sun or at a high temperature environment is strictly prohibited. Do not put the charger on a seat cask or inside the rear compartment for charging
- ③In Case of no charging, do not connect the charger to an AC power supply without load for a long time.
- ④During charging, if the indicator light is abnormal, there is abnormal smell or the housing of the charger is too hot, please stop charging immediately, and repair or replace the charger.
- ⑤Do not disassemble or replace the devices inside the charger by yourself.
- ⑥Do not charge the charger that has been fully charged.
- ⑦Do not use the charger in an environment with flammable gas, otherwise explosion or fire will be caused.
- ⑧Do not place the charger near water source or wet it, otherwise fire or electric shock may occur.
- ⑨In the event that inside parts are exposed due to charger damage caused by collision etc. Don't touch them with hands, otherwise you may be injured due to electric shock

8. Operation method of the cell and considerations

(1) Charging

- ① Make Sure to charge using the charger specifically equipped by our company Irregular or non-confirming chargers may reduce life the cell or invalid the cell.
- ②The cell that has been fully discharged(the bicycle stop running) can be charged with more than 95% of electricity within 5h, and can be fully charged within 8h.
- ③During charging neither the positive end nor the negative end is allowed to be contacted with metal.
- ④When leaving factory, the cell's electricity is about 80%. Prior to driving a new bicycle, charge it for 3~5h.
- ⑤If the bicycle is left for more than one month, cell 's electricity will reduce by about 15%. It is recommended to charge it before use.
- ⑥Please charge the cell timely to ensure driving mileage.
- ⑦During charging, the charger may become hot. As long as the temperature does not exceed 60°C, it is normal.
- ⑧When charging, please put the charger and the whole bicycle at a stable and dry place which is free of flammable and explosive goods and is out of reach of children.
- ⑨You should charge the cell within 24h after it is fully discharged, and charging time should not be less than 3h.
- ⑩Make sure that there is no short-circuit at the charging port.

(2) Discharging(use)

①Do not use the cell for purposes other than the electrical bicycle of this model, otherwise warranty will not be provided.

②Once short-circuit occurs, the cell management system will provide automatic protection, and the fuse piece connected in series with power line will fuse, giving dual protection for you cell. At about 2min after the short circuit is released and the fuse piece is replaced, the cell will work normally.

③Damage or unreasonably configuration of the controller, motor, horn, lighting facility, etc. of electrical bicycle all will cause the cell to discharge at high current. At this time, the cell will stop output for protection, but will recover within 10s, which will not have any effect on your driving.

④Working temperature range of the cell: $-10^{\circ}\text{C}\sim 55^{\circ}\text{C}$. Like other cells, its available energy will reduce with the rise of temperature, which is a normal phenomenon.

⑤ Make short out the discharging port

(3) Storage

①If long-time storage (more than one month) is needed, it is recommended to charge the cell to 60%~80% of electricity. During storage, it is needed to charge the cell every 3 months, and charging is also needed before usage.

②The cell should be stored at a cool and dry environment.

Chapter 6: About Maintenance

(1) Regular or daily check

1. Check the whole bicycle at a safe place.
2. Check whether the abnormal part found the day before impacted running.
3. Braking effect of the brake: check whether the braking handle can be holding and pinching gently and whether the clearance is appropriate. Check whether it can brake bicycle normally.
4. Check whether there are chaps, damage or abnormal wear on tyres or whether there are such sharp objects as metal, pebble, glass embed in tyres. If the lug on a tyre has been worn off by 2/3, replace the tyre, Check tyres' air pressure according to sunken condition of the part of tyres contacted with ground. The normal air pressure of front and rear tyre is 1.5kg/cm².
5. Check whether the power supply's voltage indicator indicates full capacity(according to Point 3 of item 2 under Chapter 4).
6. Steering system: swing the handle and front fork upwards, downwards, forwards, backwards, leftwards and rightwards to check whether tightness is suitable and steering is flexible, and whether there are such problems as abnormal sound caused by collision, steering system loosening, collision sound. If there are, please contact the distributor, so as to provide perfect after-sale service for you.
7. Check whether the front and rear wheel shaft become loose.