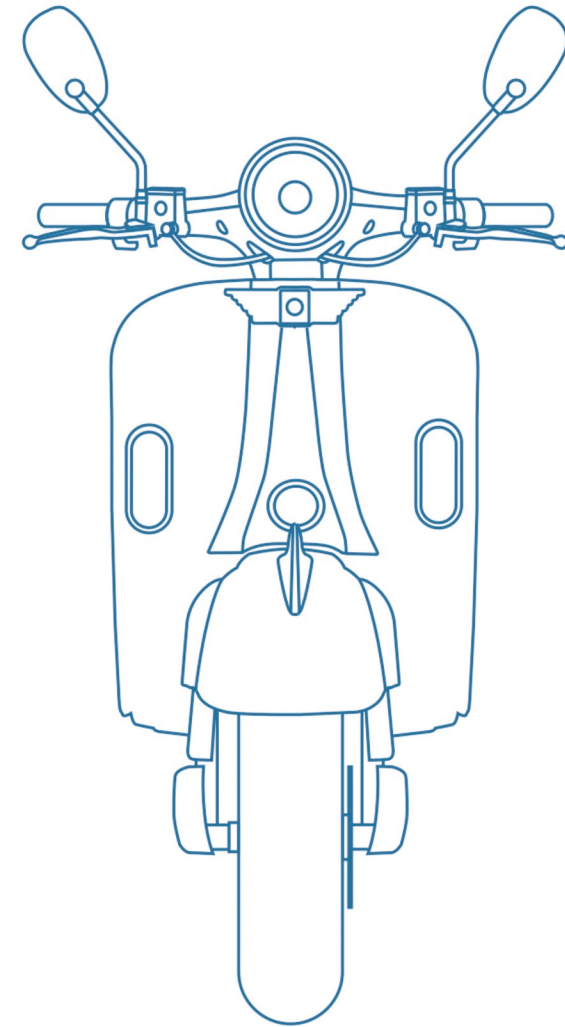
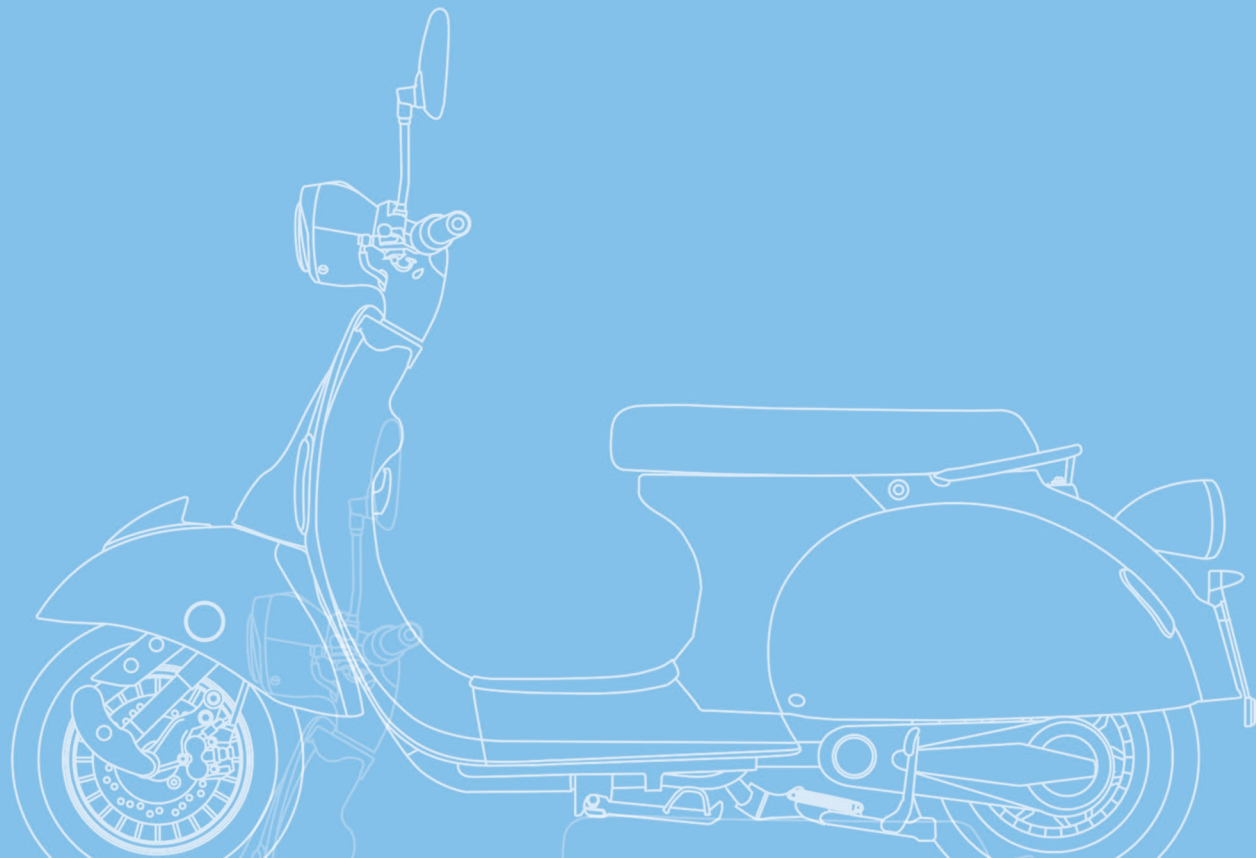


EV2000

EV2000



**Electric Scooters
Product Manual**

Please put the charger in a cool and ventilate place when charging and keep it from high heat and fire source. Please do not put the charger in water or let it melted by high temperature in case of the accident results from the charger damage.

Please first connect the output plug of the charger to the charging hole of the battery. Second, put the input plug of the charger to the AC power supply. If the power has been put through, the red light indicator will be on. After finishing charging, please remove the plug of the AC power supply first, and then the plug connected to the battery. This procedure can not be done oppositely.

The burned red light shows that it is charging now. When the power is full and the green light burns, the battery is to shift the state of constant voltage and floating automatically. In this case, another 1-2 hours' charging will be better, but usually, the constant charging time should not exceed 10 hours.

(If the light doesn't shift after 10 hours' charging, please stop charging at once and send it to the maintenance station.)

★ The safety prompts and advices of the charger

1. When charging, please use the original charger we offer, or our company won't take response for the damage.
 2. Don't throw the charger to the tail box because it is easily destroyed due to the jolt and humidity.
- ▶▶Please do not change the original body, circuits, electric components and other structures yourself. If the performance of the whole vehicle and electric components become low out of the change of the original circuits and electric components' parameters, our company will be sure not to take any responsibility.

★ Button Instruction of the Electric Scooter Remote Controller



★ BATTERY DESCRIPTIONS

Each set battery is 60V20ah lithium battery; unit weight is 7.8KGS, removable



*Battery type, subject to the actual product

★ SAFETY CAUTIONS IN DRIVING OPERATION

Please comply with the traffic rules and limit the speed within the safe speed range. (Please note that the safe speed of this electric bike is 45km/h)

Before driving, please kindly get familiar with the manual content first. To get familiar with the base of safe driving, you'd better find a moor for training to get the knowledge of driving skills and structures.

Warning: please drive at the safe speed in case of the damage of the human and vehicle.

Warning: Do not lend the electric bike to the person you do not know or not familiar with the drive. It is very dangerous if you drive with one hand, without hands or after drinking.

● Please pay more attention in rainy days.

To drive in rainy days is very dangerous due to the wet road. Therefore, please do not drive at high speed and be cautious with the sheer off. Please remember to brake in advance to prevent the accident.

● Use the hamlet correctly

Please wear hamlet correctly and fasten the belt when driving.

★ Right Dress

Please wear bright and loosen clothes whose sleeve is open, and low-heel shoes will be better.

Notes:

- For better maintenance, inspection and service, every vehicle we produce is of its frame no. and motor number. In this case, our dealer can offer you better service.
- The frame number is carved on the main girder and can be seen when you open the number cover.
- The motor number is carved on the outside cover of the motor.

★ It's better not overload

The handlebar will show a different feeling of operation when the vehicle is loading or unloading. If the vehicle bears too much weight, it is easy for the handlebar to occur vibration and it's very dangerous. The rated loading of this bike is two person. What's more, the storage box can hold below 2KG. It is very dangerous for overloading.

Notes:

- Everywhere except for the allowed part can not used for loading to avoid damaging the guard board.
- Please don't put the stuff like cotton gauze at the side of the motor.
- Under the seat (except for the storage box), please do not put the stuff arbitrarily in case of the accident.

★ Inspection, washing and maintenance before driving

Please keep the habit of inspection before driving, regular inspection and washing. You'd better use the soft cloth to wash.

Notes:

- Please do not spill the water directly to the braking hub, motor or front and rear axel when you washing the vehicle to prevent that the input water influences the function and life time of the vehicle.
- Please do not use the steam or high-pressure water pipe when washing the vehicle.

Distinguished users: thanks for using the scooters and bikes of our company. To protect your legal interest, please keep this manual well. When you purchase scooters and bikes, please inspect and adjust on spot. What's more, you also have rights to ask the salesman to provide the proper operation method and maintenance items.

★ The correct usage of the main components and maintenance.

1.Motor: The normal motor adopts rare earth permanent magnetic material of high performance, outer rotor direct driving wheel, and gearless speed shifting mechanism. It features steady structure, charming outlook, large starting torque, low current, strong climbing ability, energy efficiency, long life span and low voice.

The special maintenance is not necessary for the motor, but please do not drive in water.

Special reminds: In rainy days, do not let the motor drive in water, let alone to let the water exceed the middle axle of the rear wheel. Please inspect that whether the motor hub is fixed on the rear bottom fork. If you find the nut has been loosened up, please screw it immediately or ask the major service staff inspect.

2.Controller: Controller is the controlling center of the electrodynamics system, which includes the functions of high-class motor driver, undervoltage and overcurrent protection for battery, out-range break lever, battery power indicator and stepless speed regulation and E-ABS.

The controller adopts the single-chip microcomputer with high performance to control chip, send sensing signal in due time through components and send working order through program processing. It features high efficient, balanced starting and prompt acceleration, which can make you feel steady, comfortable and be situated in the best status.

3.Storage Battery: The equipped battery for this vehicle is sealed lead-acid battery, which features large capacity, long life span and no pollution etc. Please note that the using life of the battery is well connected to your using method.

After a long time of leaving factory, transportation, and storage, the battery power of the new purchasing e-bike may not adequate. Please charge the battery fully first (the first charging time should not be less than 10 hours), and then use the electric drive.

The battery is also influenced by temperature. Its using temperature range is from -15°C to 45°C. If the temperature is too slow, the efficient capacity will be reduced by 20%-30%; if the temperature is too high, the life span will be influenced. So we suggest that the battery should be charged in the room temperature degree of 10°C.

If you won't use the e-bike for a long time, please make sure that you can charge every one month, or the life span of the battery will be largely reduced.

4.Charger: This is a fully automatic intelligent charger, who is the key part to supply power to storage battery. Besides, the charger which is designed as fully automatic and potable style can shift itself to finish charging trough three stages without superior. What's more, it can be used everywhere the AC 220V-230V power source is available.

★ Symptoms and trouble Shootings

No.	Symptoms	Reason	Trouble Shooting
1	The governor is out of order.	(1)The battery voltage is too low. (2)The connector of governor handle has been loosened up. (3)The spring in the governor handle gets stuck or failed.	(1) Charge the battery fully. (2) Check it up again and clamp it. (3) Ask the supplier to change the spring.
2	The max speed is low	(1)The connection of the battery has been loosened up. (2)The right and left brakes don't work properly (3)The connection of motor hub plug gets loose and damaged.	(1) Repair and reconnect. (2) Repair and reset (3) Look for a specialized person or send to maintenance station to fix it.
3	The hub connected to the power motor doesn't work	(1)The air pressure of the tires is not enough. (2)The power is insufficient or the chargers break down. (3)The aging or damaged battery (4)Too many uphill, strong upwind, frequent braking and launching, overload.	(1)Inflate your tires (2)Charge the battery fully or examine that whether the plug of the charger contact poorly. (3)Change the battery (4)Please pedal the bicycle to assist in this circumstance.
4	Full charge endurance is not enough after full charging	(1)The charger plug base has dropped or the loosen connection between the plug and plug base loosened up. (2)The fuse inside of the charger has been burned up. (3)The connections of the battery pack have loosened.	(1)Fasten the plug base and connector. (2)Change the fuse (3)Get the connection welded.
5	The charger doesn't work Other Symptoms	(1)The faults that can not be solved or judged according to the guide (2)The damage of the motor hub, controller, charger, and the inside of the battery pack	Please look for the supplier or maintenance station when you meet the above situations. Do not open the above components, or you'll lose the guarantee maintenance of our company.

★ STRUCTURE PICTURE OF WHOLE VEHICLE<1>



★ THE USE OF INSTRUMENT<2>

NO.	Name	Function
1.	VOLTMETER	Voltmeter indicates the battery voltage.
2.	HEADLIGHT INDICATOR	The headlight will be shine when press the headlight switch.
3.	STEERING LIGHT INDICATOR	The steering light will be shine when press the steering switch.
4.	SPEEDOMETER	Speedometer: speedometer indicates the speed.
5.	DISTANCE METER	Distance meter: distance meter indicates the range.

★ THE USE OF SWITCH

Note: Please do not open the power supply when you push the vehicle, or the coincident crash may happen to the rolling handle.

1. when the key is located at "ON" it shows that the power has been put through and the motor can be started. When driving, please don't take down the key or shut off the power. Turn the key to "OFF", the power can be shut off and the motor can be ceased. After by, you can take down the key.

Note: Please add the anti-theft lock when you leave the vehicle.



2. Headlight Switch-Only Beam light Press the switch of the beam light, the beam light will be on. Press again, it will be off. (Head light always "ON")

3. Rolling Handle The speed will be faster when you turn the handle anti-clockwise, and vice versa, the speed will be slow down when you turn it clockwise. If you loosen rolling handle, the motor will stopped revolving.

4. Horn Switch When the power switch is on "ON", the horn will ring immediately when you push down the horn switch. If it is not necessary, please do not press the horn switch in case of the noise pollution.

5. Steering switch Please use this switch when you want to turn a corner or swerve. If you want to turn left, please push the switch to the left; if you want to turn right, please push the switch to the right. When the steering is over, please push the switch to the middle place and the signal will be out.

Note: Please turn off the signal of steering to avoid bringing misunderstand to others.

★ Inspection before driving

● Inspection of tire

1. Check whether the pressure of the tire is normal. Please judge that whether the pressure is proper according to the hollow condition of the tire part connected to the land. If the pressure is abnormal, please use the tire measurer to check and adjust the pressure to the normal one. Generally speaking, the normal pressure of the front wheel is 125KPa and the rear wheel is 175Kpa.
2. Please check that whether there is crack or abrasion on the tire.
3. Please check that whether there's nail, glass or stone in the wheel.

Note: Abnormal pressure, crack, and abrasion would result in un-flexible steering and tire explodes.

4. If the stick out of the tire has been worn down by 60%, you'd better change a new piece of tire.

● The examination of Light Equipment and Steering Indicator.

1. Please put through the power supply and operate light switch to check out that whether the headlight and tail light work well

2. Please check the front and rear brakes to see whether they're out of electricity
3. Please operate steering light to see if it works well.
4. Please check whether there is damage on the light device. Please examine carefully in order not to influence the normal drive.

● The pollution and damage of the reflector and license plate

- 1) Please examine that whether there is pollution or damage on reflector.
- 2) Please examine that whether the license plate has been fastened tightly, whether the numbers are clear and whether there are pollution and damage phenomenon.

● Examination of Handlebar

1. Please check that whether the handlebar is loosen by shaking it up and down and left and right.
2. Please check that whether the handlebar is too tight.

★ Technology parameter

(According to the real model)

Dimension(L*W*H).	1910X710X1120mm
Center Distance(mm).	1390mm
N.W.(kg).	82KGS(60V20Ah battery)
Climbing Ability.	18°
Max Speed(km/h).	45km/h
Range Per Charge(km).	40Km(one set)
Rated speed.	550r/min
Rated Voltage of Motor(V).	60V
Rated Efficiency.	90%
Max Rated Torque	130N.m
Rated Power of motor(w)	2000W
Battery.	Lithium battery
Battery Capacity.	20Ah(one set)
Input Voltage of Charger	AC220-230V50Hz
Undervoltage Protect.	53±0.5V
Charging Time	5-6 hours
Overcurrent Protect.	45A

★ Inspecting and maintenance

In order to extend the serviceable life of the vehicle as well as ensure the safety and comfort, please inspect and maintain it in certain time. If the vehicle is left unused for a long time, it should be inspected in due time as well.

When the mileage reaches 300km, please have an inspection and maintenance to the vehicle.

● Take care when inspecting

1. Choose a flat land and set up the main stand.
2. It should be driven in a safe environment to inspect the vehicle.
3. If there are anything unusual, please drive after the problems have solved. If the matter is beyond your ability, please ask the maintenance station to have an inspection.

● Inspection of operation system

1. Inspect if front fork is curved or damaged.

Shake the handlebars up and down to inspect if there is any unusual sound because of the curve of front fork. If there are, please go to the dealer for help.

2. Inspection of brakes

The equipped battery for this vehicle is sealed lead-acid battery. By measuring to make sure if the distance allowing free play of brake is within 10-15mm. If not, adjustment should be done to it immediately. If the brake lever is worn out seriously (over 2/3), it should be replaced at once.

NOTE:

After the adjustment of brakes, make sure that the screws have clinched to avoid any danger during driving and remember to turn out switch first, and then the brakes.

3. Inspect the effect of brakes

To drive on a dry and flat road at a low speed, use front brake and rear brake respectively to inspect if they work well.

NOTE:

- ★ Close upon the brake bar, if it still doesn't work, it should adjust the distance between brake shoes and rims.
- ★ In rainy and snowy days, it should increase the braking distance.

If there are no special machine tools and measuring device at hand, please go to the maintenance station to inspect and replace. Do not take apart it before you know the technology, or some parts may be damaged.

4. Inspection of tires

Inspect tires with tires gauge when they are cooling.

NOTE:

abnormal tire pressure, tire that is full of cracks, damaging or unusual abrasions, etc. Any one of these may lead to seize up or tire break.

The vehicle runs on road, so cobblestone, glasses, nails on land may damage it. Please take care of such things when driving. Besides, inspection should be often taken on the mating face and side face to see if any sharp objects stab into it or unusual damage because of leaving unused for long time.

★ CORRECT WAY OF DRIVING

● Starting Method:

Please stand by the left side of the vehicle and prop up the main stand to see whether there is any abnormal phenomenon for the whole vehicle.

1. Please turn the key to "ON" to see whether various lights, switch, horn and power-off switch of brake handle work well. If everything is fine, you can flat the main stand and ready for drive.
2. Motor Starting

When you sit on the vehicle, please slowly rotate the rolling handle, the drive will drive automatically, and then, please add speed gradually.

Danger: If the rear wheel has already fallen to the ground but people haven't sit on the vehicle steadily, please do not rotate the rolling handle.

● Speed Adjustment

The speed can be adjusted through rolling handle. Please accelerate the speed slowly and gradually. Please speed up slowly when you just start and uphill. In this case, the motor power will be added. If you want to slow down the speed, please loosen the rolling handle.

● The use of Braking

The efficiency will be better if you use front brake first then rear brake.

1. After recovering the rolling handle, please clench the brake handle tightly.
2. Please brake slowly, the best way is to clench brake handle tightly at last.
3. Please do not brake or steer suddenly. It is the abrupt brake or sudden brake that may cause the side slip or turn over, which is very dangerous.

Note: It is very dangerous for you to just brake front wheel or rear wheel because it is easy to occur cross slip.

● The attention items of driving

1. Please keep natural posture so that you can drive smoothly.
2. The operation safety will be influenced by the seat location for the two-wheel vehicle, so please try your best to sit on the middle of the seat cushion in order to avoid the over-loading of the front wheel and shaking of the handlebar which may lead to dangers.
3. It is hard to speed up on the road which is full of damage and rubbles, so you'd better drive slowly and observe carefully.
4. In rainy and snowy days, please concentrate and prepare to brake in advance because it is easy to slip if the road is too wet. What's more, please pay special attention to the brake condition when you wash the vehicle or drive through water. Please be cautious with the safety because the brake efficiency may slow down after washing or driving in water. Moreover, please brake slightly until it recovers to the normal condition.
5. In Rainstorm days, if seeper is over the lowest edge of the motor, please don't drive in water to avoid the operation barrier might happen to the motor and rear brake.

★ CORRECT WAY OF DRIVING

● Parking method

1. Please give a signal when you're close to the parking space.
- 1) Please turn on the steering light earlier, pay attention to the rear and side vehicle and pull up the vehicle slowly.
- 2) Recover the rolling handle and use the front and rear brake in advance.
2. When the vehicle is totally ceased, please turn off the steering switch and turn the key to "OFF" .
3. When stopped, please stand by the left side, step the main the stand and lift the vehicle with hands.

Note: Do not stop the vehicle on the soft slope in case of dumping. If the vehicle won't stay long, you can just use single stand.

To prevent the vehicle being stolen, please lock the anti-theft lock and remember that take the key away.

Note: Do not load the kid or stuff on the pedal. At the same time, obey the traffic rules and remember the safe speed.

● The charge and maintenance of the storage battery.

The equipped battery for this vehicle is sealed lead-acid battery, whose using temperature range is from -15°C to 45°C. But its best temperature range is 20°C±10°C, if the temperature is too slow, the efficient capacity will be effected; if the temperature is too high, the life span will be influenced. So, it is normal that the full charge is to be reduced in cold regions or when winter is coming. But, its function would recover when the temperature returns above 20°C. Battery is the key component to ensure the good performance of our vehicles, so please be aware of the using and safe keeping. Please do not let the lowest power exceed the minimum allowable voltage and when the undervoltage indicator is on, please recharge immediately. To expand the using life of the battery, the habit of charging promptly everyday is necessary.

● The use and maintenance of the charger.

- 1) Please check out whether the rated input voltage (AC220V-230V) of the charger is in accordance with the voltage of the power system.
- 2) The battery can be charged directly on the e-bike.
- 3) Please first connect the output plug of the charger to the charging hole of the battery. Second, put the input plug of the charger to the AC power supply. If the power has been put through, the red light indicator will be on. This procedure can not be done oppositely.
- 4) The burning red light indicates that battery is charging while the burning green light shows that the power is full. The charging time is about 5-6 hours (the length of the charging time depends on how much the left power is)
- 5) The charging time should not be in excess of 12 hours should there be any special conditions, or the battery will be damaged.

● Charging notes:

- ★ Please put the charger beyond the children when charging.
- ★ Please do not use the vehicle when it is not full of power, or the life span of the battery will be effected.
- ★ The capacity of the battery need to suitable for the charger.
- ★ Please don't use the original charger to charge.
- ★ There are high-tension circuits inside the charger, please do not take down it by yourself.
- ★ Keep away from liquid and metal particle to avoid any destroy, and do not drop or knock it.
- ★ No cover is allowed on the charger when charging.
- ★ This charger is just for indoor using, so please using it in a dry and environment.
- ★ When there's strange smell or the temperature is too high in charging, it should be stopped at once. and ask the seller to test and mend.

● Usage and maintenance of the motor and controller

- ★ Inspect if the nut cap on two sides of the motor are loosening in due time.
- ★ Inspect if the motor wirings insulate motor casing well in due time
- ★ Inspect if the controller wiring is loosening in due time.
- ★ Inspect if the fuse is loosening in due time.