



ELECTRIC SCOOTER

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FOREWORD

This product is designed for transportation and is environmental friendly. Below are the characteristics and advantages of the electric scooter.

- * High-efficient brushless DC motor.
- * Digital controller with indicator and protection from over voltage and under voltage.
- * Brake system with power cut-off ability to ensure safe riding.
- * 20Ah battery with high performance offering stronger current and longer distance for drive
- * Front and rear suspension system providing a smooth and comfortable riding

Warning!!

1. Driving age according to local laws and ordinances that govern and/or restrict the use of electric bike. The laws and ordinances vary greatly from municipality to municipality. It is your responsibility to know and abide by your local restrictions.
2. Do not remove or dismantle the parts in private. Please contact service center or dealer for replacement or repair parts.
3. Do not borrow the vehicle to anyone that not familiar to the riding process.
4. Avoid sudden stop or braking to prevent accident.
5. Never ride with one hand. Avoid riding when drunk.

RIDING SAFELY

General Rules

- Always wear an approved helmet when riding your scooter, and follow the helmet manufacturer's instructions for fit, use and care of your helmet.
- When riding obey the same road laws as all other road vehicles, including giving way to pedestrians, and stopping at red lights and stop signs.
- Ride predictably and in a straight line. Never ride against traffic. Ride defensively. To other road users, you may be hard to see. Use correct signal lights to indicate turning or stopping.
- Concentrate on the path ahead. Avoid potholes, gravel, wet road markings, oil, curbs, speed bumps, drain grates and other obstacles.
- Expect the unexpected such as opening car doors or cars backing out of concealed driveways. Be extra careful at intersections and when preparing to pass other vehicles.
- Familiarize yourself with all the scooter's features. Practice signal lights, braking and the use of horns.
- Don't carry packages or passengers that will interfere with your visibility or control of the scooter. Don't use items that may restrict your hearing.
- Maintain a comfortable stopping distance from all other riders, vehicles and objects. Safe braking distance and forces are subject to the prevailing weather conditions.
- Please ride slow when road condition is bad.
- Please do not exceed the loading capacity. This will affect the driving distance.

Wet Weather

- In wet weather you need to take extra care.
- Brake earlier, you will take a longer distance to stop.
- Decrease your riding speed, avoid sudden braking, and take corners with additional caution.
- Be more visible on the road.
- Wear reflective clothing and use safety lights.
- Potholes and slippery surfaces such as line markings and train tracks all become more hazardous when wet.

Night Riding

- Ensure that the front lights are on.

- Wear reflective and light colored clothing.
- Ride at night only if necessary. Slow down and use familiar roads with street lighting, if possible.

CAUTION: Modification is illegal. A modified vehicle will affect its structure or performance, which will result in shortening the vehicle's life. Modified vehicle will not covered by warranty. It is necessary to buy original spare parts from authorized dealers. No guarantee can be provided either for quality or durability when buying unoriginal spare parts from the market.

WARNING: Once you have completed the initial charge you are ready to ride. You must be aware of all local laws and ordinances that govern and/or restrict the use of electric bike. The laws and ordinances vary greatly from municipality to municipality. It is your responsibility to know and abide by your local restrictions.

TECHNICAL INFORMATION

Product size	: 1870 (L) × 700 (W) × 1125 (H) mm
Wheelbase mm	: 1395mm
Product Weight	: 91kg (lithium battery)
Carrying capacity	: 150kg
Single charge	: approximately 80km (Lithium)
Max speed	: approximately 45km/h
Type of motor	: brushless DC motor
Motor power	: 2.03 kW at 458 min ⁻¹
Battery	: 60V26Ah
Battery type	: lithium battery
Life of storage battery	: approximately 600 cycles (Lithium)
Charger input	: AC 240V or 180V (optional)
Charging time	: 5 hours
Charger output	: 66V/5A (Lithium)
Tire size	: 90/90-12/、120/70-12
Exceeded current amp	: 35A

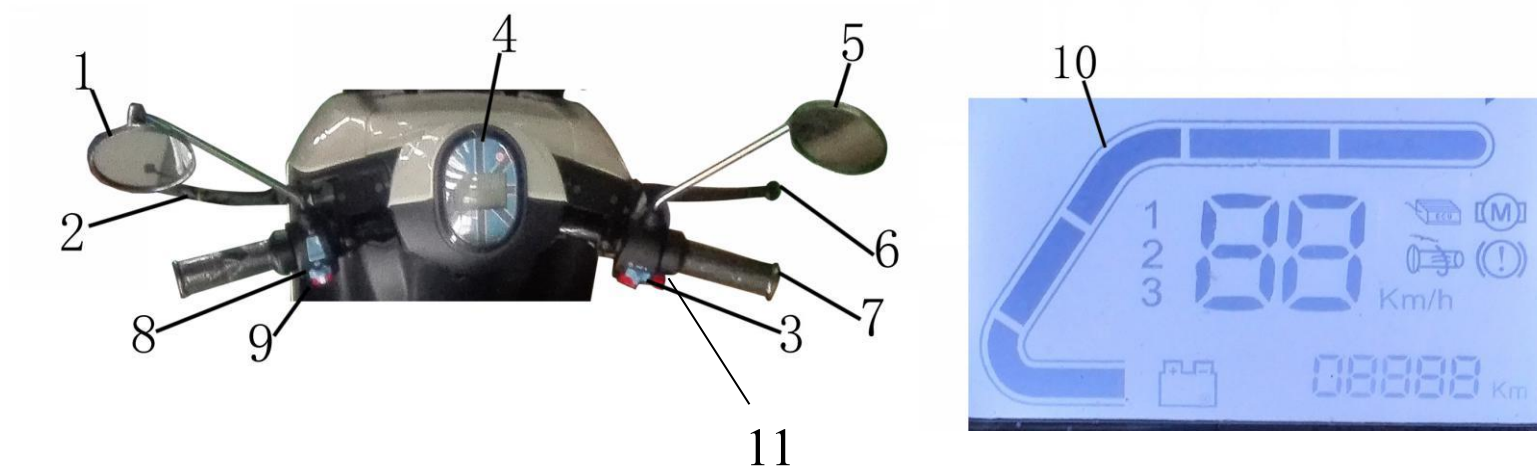
LIST OF PARTS



- | | | |
|--------------------|---------------------|------------------------|
| 1. Rearview mirror | 7. VIN number | 13. Rear turning light |
| 2. Basket | 8. Single kickstand | 14. Brushless motor |
| 3. Headlight | 9. Double kickstand | |
| 4. Turning light | 10. Seat | |
| 5. Front AI wheel | 11. Battery | |
| 6. Front tire | 12. Rear box | |

NOTES: The above spare parts are only for reference. Any changes of spare parts or technology upgrades will be presented to the final product without prior notice.

INSTRUMENT PANEL



1 & 5. Rearview mirror (LR)

2 & 6. Brake levers (LR)

3. Front light on/off switch: selecting ☀ for turn on the front light, selecting ● for turn off the front light. **(WITHOUT THIS SWITCH IN EEC)**

4. Speed odometer: Show the speed and mileage.

7. Throttle twist grip: The speed depends on the turning angle.

8. turning signal switch: Symbol ⇐ means turn left; ⇒ means turn right; press the switch to the middle and the signal will stop.

9. Horn switch: Press the switch and the horn is on.

10. Battery indicator: when the power only last one should charge.

11. High/low speed switch. When you press it that is low speed for 25km/h. It is 45km/h on usual.

CAUTION: Do not use horn in the no horn area.

Main Switch: (Different vehicles might use different symbols)



1. Power switch **OFF/ON**: Inserts the key into Keyhole; turn from **OFF** to **ON** position and power will on. Contrarily, power will off.
2. Turning lock: turn left of the handle bar, then press and turn the key to **LOCK**, handle bar could be locked. if you want to open, you can reverse operation.
3. Seat lock: when the power lock key counter clockwise rotation, the seat will be turned on. Press the seat, it will automatically lock.

Warning: Never push the scooter when the handle bar has locked; it will fall down when losing balance.

Attention: Please lock the scooter and take the key after parking.

CHARGING THE BATTERIES

Before riding the electric scooter for the **first time**, you must charge the batteries for 6-9 hours using the supplied charger.

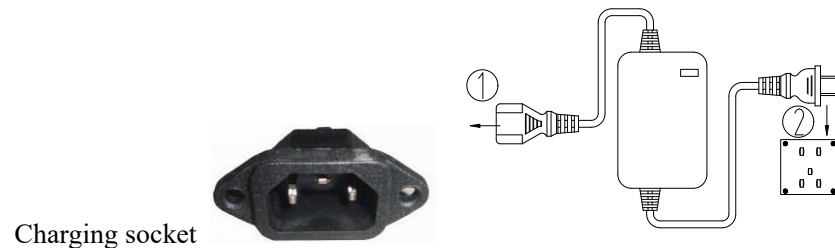
IMPORTANT CHARGING INSTRUCTION:

The Power Switch Lock must be in the Off position when the electric scooter is being charged.

The scooter is using 60V lithium battery. You should charge your electric scooter after each ride. You must charge your electric scooter if it has not been used for 30 days or more. Recharging time is between 6-9 hours.

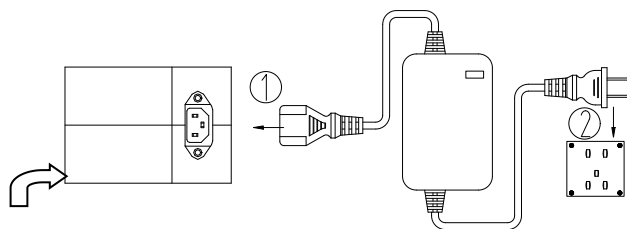
A. charging on the scooter:

Off the scooter by pointed the key to "0". Insert the output plug to the charging socket of the scooter (refer ①) and connect the input plug 220V / 110V to the wall socket (refer ②). The battery in fully charged when the charger indicator shows green. Suggest giving extra 1-2 hours charging time to achieved better battery condition. Remove the charger input plug follow by the output plug when completed charging.



B. Remove the battery box from the seat buck:

- a. Open the seat buck and disconnect the plug from the battery case carefully.
- b. Insert the output plug to the charging socket of the battery case (refer to ①) and connects the input plug 220V / 110V to the wall socket (refer ②). The battery in fully charged when the charger indicator shows green. Suggest giving extra 1-2 hours charging time to achieved better battery condition. Remove the charger input plug follow by the output plug when completely charged.



Battery case

Warning:

1. Do not place the battery near heat or fire.
2. Do not expose the charger to water.
3. For safety, please use the exclusive charger to charge the battery. Please follow the charging instruction.

Kickstand

- ①Double kickstand: Use for long time parking.
- ②Single kickstand: Use for temporally parking.

WARNING: Single kickstand function as **circuit cut off system** prevents scooter moving when pressing the accelerator by no intention. The scooter will start only when the single kick stand has been folded up.

Footboard

Do not put any heavy things on the footboard. This will affect the scooter's balance and caused dangers.

Seat

- ①Seat lock: Turning clockwise the key and the seat can be lifted up.
- ②Press the seat down and it will be locked automatically.

Brake inspection

Before the right and left brake levers start to function it's in the free path condition. We can get the free path (10-20mm) by adjusting the adjustable nut

clockwise or anticlockwise.

WARNING:

1. The brake is adjusted according to its sensitivity. We should press both front and rear brake to give better braking process.
2. Avoid braking continuously for a long period of time because that may overheat the brakes and reduce its braking efficiency.
3. When pressing the brake levers, please release the accelerator.

RIDING POINTS

Check below spare parts before riding the scooter:

- A. Checks tire condition such as worn-out or break.
- B. Checks the transmission system condition.
- C. Checks tire pressure.
- D. Check bugle and rear reflector condition.
- E. Checks all the standard spare parts such as nuts and screws if tightly screwed. Check if the brake cable lanyard functions in smooth condition.
- F. Charging battery when not regular drives the scooter. To prolong the battery life, charging should do in each 15days during summer and 30days during winter.
- G. Checks all the turning parts frequently such as handle bar. Add lubricant when needed.
- H. Checks all the lighting system.

RIDING INSTRUCTION

1. Hold onto the handlebars with both hands. Assume a well-balanced position on the scooter and push off with your foot.
2. ON the power (turning the key from “**OFF**” to “**ON**”) your right hand will control the accelerator.
3. Twist the accelerator slowly to avoid a sudden rush of speed forward. The speed of the bike will increase as you twist the accelerator more. Release the accelerator and apply the brakes to stop your scooter. You will control the speed of the scooter by using both the accelerator and the brakes. When the brake handle is squeezed it cuts power to the accelerator.

TROUBLE SHOOTING GUIDE

Problem	Cause	Solution
The power indicator illuminates but scooter still does not work.	1. The accelerator is not operating properly. 2. The single kick stand not lift up, power cut off.	1. Replace the accelerator. Call Customer Service at to order a new accelerator. 2. Lift up the single kick stand.
The power indicator not working when power on	1. The fuse or fuse socket has burnt. 2. The battery box not place properly.	1. Replace the special fuse or fuse socket. 2. Adjust the battery box in proper way.
Distance per charge is lesser than normal.	1. Not enough air pressure in the tires. 2. Not enough charging or battery is defective. 3. Stopping and starting up frequently, over loaded, riding uphill, strong wind.	1. Inflate the tires. 2. Recharge battery or replace battery. Call Customer Service to order a new battery pack. 3. Ride under good weather condition and even roads, and regular speed.
Electric scooter is losing speed.	1. Low battery 2. Battery is defective	1. Recharge your battery for 6-9 hours. 2. Replace battery. Call Customer Service at to order a new battery pack.
Accelerator not working	1. The brake cables not in position and cause circuit cut off.	1. Adjust and reposition the brake cables.

NOTE: if other problems occur, do not attempt to disassemble the scooter on your own, please proceed to the authorized dealer.

MAINTAINANCE AND ADJUSTMENT

Battery:

To prolong battery life, store the scooter in garage to prevent low temperatures and affect the battery performance.

- ① Do not dismantled or dispersed the battery cells.
- ② Keep battery away from the reach of children.
- ③ Do not connect cathode and anode of charger during charging and discharge process. Prohibited to use any conductor to connect both cathode and anode. This will cause short circuit.
- ④ Prohibited to dip battery in water.
- ⑤ Prohibited to place battery in temperature above 60℃ such as heat source etc.
- ⑥ Prohibited to knock on, throw and trample the batteries, etc.
- ⑦ Prohibited to use sharp tools that could cut through and damage the battery
- ⑧ In case of leakage or eye contact with electrolyte, please do not rub. Wash immediately with plenty of water.
- ⑨ If the battery smells, heats, smokes, changes colors, is distorted or if you notice any abnormality, stop using the battery and get away from it immediately.

Cleaning:

- a) Never use high water pressure to wash the scooter. Soaked electrical parts and wiring will affect the performance.
- b) Never apply lubricant to the drum brake and the tire.
- c) Use lubricant to clean the metal parts of the scooter.
- d) Use standard abluent to clean the painting plastic parts surface and wipe up by cloth.

Charger inspection:

1. Use only special or original charger. Different country may use different charger. Do not mess-up 220V and 110V charger.
2. The Power Switch Lock must be in the OFF position when the electric bike is charging.
3. Do not place the battery box upside down when charging.
4. Check the charger socket if the welding work still in good condition.

Motor and controller maintenance:

1. During raining season, do not let the water go over the motor center line. This is to protect motor from being burnt and broken.

2. Do not press both brake lever and accelerator when starting the motor to prevent damaging other parts.
3. Slow down the scooter when the road condition is not good. High vibrations will interrupt the electrical parts connection.

Periodic maintenance items and schedule.

To ensure safety in travel, good performance and durability of the vehicle and reduce emission, be sure to perform periodic maintenance duly and properly; In the following table, **I** stand for inspection and cleaning, oiling, adjusting or replacing when necessary; and **T** for tightening.

Item	Distance of travel(km)													Daily before use
	300	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	
Battery solution	I	I	I	I	I	I	I	I	I	I	I	I	I	I
Brake system		I	I	I	I	I	I	I	I	I	I	I	I	I
Motor														
Bolts and nuts	T					T					T			
•The above listed items may vary according to different to different vehicle models. Therefore, the maintenance effort should be costumed to those items available on a certain model. •Maintenance beyond the distance intervals listed in the table above may be performed by analogizing the listed intervals.														

WIRING DIAGRAM

