

USER MANUAL

Notice to Users

Please read this Product Manual carefully before use for proper operation.

Please carefully check whether the parts are complete against this Product Manual before your ride for the sake of safety. Contact your dealer in time in case of any problems.

Please follow the traffic laws. Slow down on rainy or snowy days, on slippery roads. Increase the braking distance for the sake of safety.

The scooter can operate on rainy or snowy days, but it can't operate in water. When the water reaches middle axle, it may cause rusting or failure of the motor, battery or other parts.

Do not dismantle the scooter on your own. Please contact the after-sales service for replacement or purchase of original parts.

Do not lend your electric scooter to those who can't operate an E-scooter for the safety of others and for prevention of unnecessary damage to your scooter.

Please keep the Product Manual and the Warranty Card properly.

Precautions

△ Rider and Passenger

This vehicle is not designed for a ride of more than 2 persons.

△ Please carefully read this Maintenance Manual.

Warning: Failure to follow the instructions herein may lead to serious casualties.

Caution: Failure to follow the instructions herein may lead to personal injury or damage of parts.

Note: Provide useful information.

This Product Manual should be deemed as a permanent document of your electric scooter. If this scooter is transferred to others, this Product Manual should be handed over to the new owner as well. Without the written consent of the Company, reproduction or reprint of any part of this Product Manual is prohibited.

Safety Notice

△Wear a safety helmet

Using a quality safety helmet is the priority for protection. Use proper protective goggles as well.

△Know your vehicle

Your riding skills and mechanical knowledge is the foundation for safe riding. You are advised to practice your riding on open, quieter roads, and know the mechanical performance and operation methods first.

△Know your riding skills

Always ride the scooter within your skill range. Know your riding skills and the operation methods of the scooter so as to prevent accidents.

△Notice for Riding on Rainy Days

It should be noted that the braking distance on rainy days should be twice of that on sunny days. Always avoid the roads with paint markers, manhole covers and oil stains to prevent slipping. Pay extra attention when riding through railway crossings, iron fences and bridges. Slow down if road conditions are unclear.

Safety Notice

△ Do not use the high beam light indiscriminately.

Continuous use of the high beam light on urban roads and pedestrian-packed roads may disturb the vision of the drivers and pedestrians and affect normal, safe driving. Do not use the high beam light when the road is well-lighted.

△ Do not make or receive calls while riding.

Making or receiving calls while riding is one of the main reasons for inattention and will easily cause accidents. Please stop the scooter before you make or receive calls.

△ Do not change the lane at will.

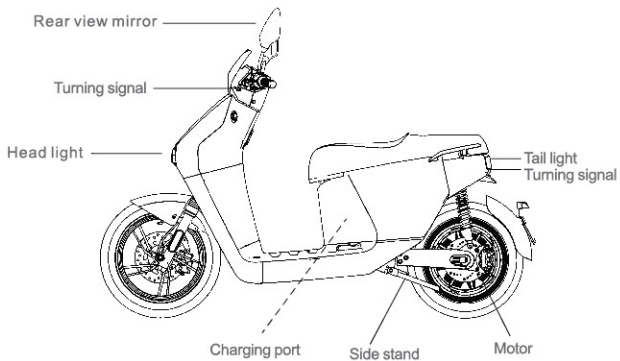
Changing the lane at will is one of the important reasons for accidents. When you need to change the lane, remember to switch on the Turn Indicator first. Check the scooters approaching from behind and change the lane when it's safe.

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Parts Info

Diagram of Components and Parts



Parts Info

Diagram of Components and Parts



Operational Guide

- ◆ One button start
- ◆ Remote control
- ◆ Mute anti-theft function
- ◆ Vehicle search function
- ◆ Vibration alarm
- ◆ Movement alarm
- ◆ Learning remote control
- ◆ Dual remote configuration
- ◆ The vibration sensitivity is adjustable
- ◆ Unlock the cushion sit
- ◆ Tap switch and lock function

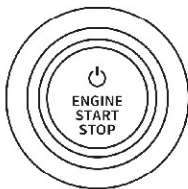
Product Parameter




working frequency: 433.92MHz (stabilized frequency)


Remote control distance: ≥50 meter (In open space, the remote control is 1.5 meters from the ground, and the host machine is 1 meter from the ground)

Operating voltage range: 48V/60V/72V

one button start



function key assignments	condition	operate	Anti-theftfunction description
LOCK 	alarming	Short press	<p>The anti-theft host sends out alarming, and the vehicle is locked. Then it will enter alert state after 3S.</p> <p>① Pre alarm: when the vehicle is pushed or vibrated, the anti-theft host will alarm continuously for 5 seconds, lock the motor at the same time, and warn others not to touch the vehicle;</p> <p>② When the vehicle is pushed or vibrated within 10 seconds after the warning, the anti-theft host will continue to alarm and automatically lock the motor at the same time;</p> <p>③ Press the arming key to pause the alarm sound, but it is still in the alert state;</p> <p>④ Lock the motor: if the key is forced to start the vehicle, the anti-theft host will immediately and continuously alarm, and automatically lock the motor at the same time;</p>
UNLOCK 	alarming	Short press	The anti-theft host sends out two prompt tones of warning tone and cancel the anti-theft state. Then the vehicle unlock.
	Any state	Long press 2S	Keeping press the  button. When you hearing the "beep" sound, The lock of the seat cushion is opened, the vehicle unlock.

Electric start key 	In ordinary	Press twice	The host sends out a prompt tone and the tap lock is unlocked; Turn on the power of the vehicle to ride keylessly. If the switch lock is in the energized state, it will not respond.
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Product functions

1.Vehicle start and shutdown

(1)Vehicle start:

- 1、 Press the unlock key on the remote control and the host will sound a prompt tone, and the tap lock will unlock; The "start / stop" button with LED light starts to flash for 10 seconds. Press the "start / stop" button once in 10 seconds and then release, the host sends out a start prompt sound, and the vehicle starts.
2. If it is not operated for more than 10 seconds, the LED light stops flashing and the vehicle enters the disarming state.
3. Press the unlock key on the remote control once to open the switch with the mechanical key.

(2)Vehicle stop

- 1、 1. When the vehicle is started, press the "Start / stop" button, and the main engine issues a shutdown prompt sound, and the vehicle will be power off.

2.LOCK AND UNLOCK

1. In the armed state, press the disarm key on the remote control once, the host will sound a prompt tone, and the tap lock will unlock.
2. In the disarming state, press the remote control arming key once, the host will sound a prompt tone, and the tap will be locked.

3.Open the cushion lock

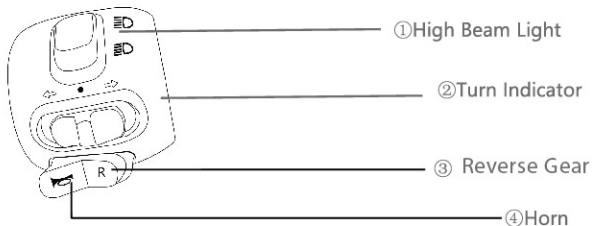
- 1.When the LED light flashes within 10 seconds, keep pressing the "Start / stop" button for 2 seconds, the host issues a "beep" sound, and the cushion lock is open.
2. In any state: keep presing the "release button" on the remote control for 2 seconds, the host sends "beep"sound, and the cushion lock is open.

4.Vehicle Anti-Theft System

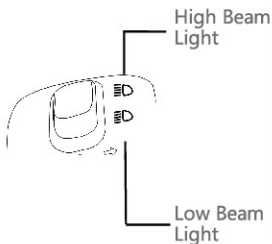
1. When the vehicle is in a fortified state, if someone pushes the vehicle or shakes, the anti-theft engine will sound out an alarm and automatically lock the motor.
2. If the vehicle is in the fortified state, if the key is forced to open the electric switch, the anti-theft host will immediately continue to alarm the sound, and automatically lock the motor.

Operational Guide

Left Combination



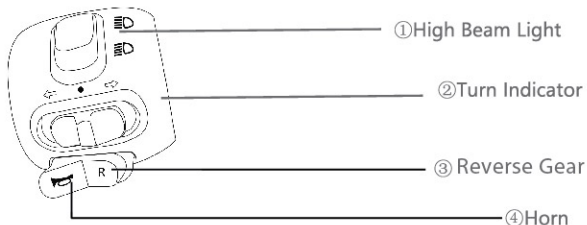
① High/Low Beam light: Press the upper part to turn on the high beam light; press the lower part to turn on the low beam light



Remarks: To signal overtaking, the rider may press and hold the Pass button to enable the High Beam Light and Low Beam Light Interchange Mode. Release the Pass button to return to the Low Beam Light.

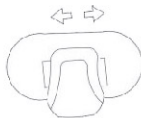
Operational Guide

△ Left Combination

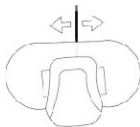


②Turn Indicator: Push the button left to turn on the Left Turn Indicator; push the button right to turn on the Right Turn Indicator. Press the button to reset and the Left/Right Turn.

Push the button left/right to turn on the Left/Right



Push the button to center to reset.



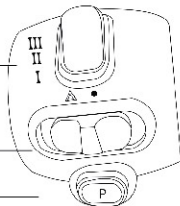
Operational Guide

△ Right Combination

① Drive mode with 3 gears


② Hazard Warning

③ Start Button




Operational Guide

Parking

- △ After you reach the destination, turn the key anticlockwise to  . Balance the scooter with your right foot. Unfold the side stand with your left foot to park the scooter. Turn the handlebar left to the fullest, press the key downward and turn it anticlockwise to lock.

Locking

- △ The scooter can only be locked when the key is in 

Operational Guide

△ Battery Use Environment

The battery is to be used at the ambient temperature range from -10°C to 45°C.

Do not expose the battery to water, beverages or corrosive liquids to prevent possible leakage, overheating, smoking, fire or explosion.

Do not keep the battery close to heat source, open fire, inflammable and explosive gases and liquids, so as to prevent possible leakage, overheating, smoking, fire or explosion.

Metal objects in the battery compartment may lead to leakage, overheating, smoking, fire or explosion.

In case of undesirable odor, overheating or deformation of the battery, please disuse the battery immediately, keep away from the battery and contact the after-sales service.

Warning: The battery is not a repairable part by the user. In case of battery fault, please contact the after-sales service. Users dismantling the battery may lead to leakage, overheating, smoking, fire or explosion.

Battery Use and Maintenance Guide

△ Battery Charging Environment

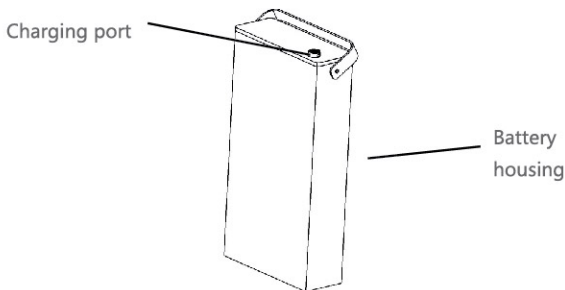
Please charge the battery at the ambient temperature range from 0°C to 45°C. The battery charging time should not exceed 24 hours. Overcharge will shorten the battery life.

Attention: Charging is not available at an ambient temperature below 0°C. Please charge the battery at an ambient temperature over 0°C.

Warning: Using non-original battery chargers may lead to leakage, overheat, smoking, fire or explosion.

Battery Use and Maintenance Guide

Battery Charging Methods



- ① Remove the battery from the scooter.
- ② Plug the charging plug into the charging socket. When the charging indicator turns from green to red, the scooter is charging. After the charging indicator turns from red to green, charging is saturated.

Attention:

If the battery is not full after charging for over 24 hours, please stop charging and contact the after-sales service.

To maximize the battery life, users are advised to keep the battery percentage within the range of 20% to 80% as practicably as possible. Please use the accelerator handlebar gently in a normal ride.

Do not keep the battery at an ambient temperature over 40°C so as to prevent irreversible capacity loss of the battery.

At low temperatures, the lithium battery capacity will lose at varying degrees. To be more specific, the usable capacity at -10°C is 70%, that at 0°C 85% and that at 25°C 100%.

The best battery capacity for storage is 50%. Storage of battery less than 10% full or more than 90% full over a long period of time will cause irreversible capacity loss of the battery.

For storage over a long period of time, please keep the battery at an ambient temperature from -20°C to 40°C, and have a charge and a discharge at least once a month so as to minimize battery capacity loss in storage.

Do not keep the battery in places with the risk of falling. That's because falling may cause uncontrollable internal damage to the battery and may lead to leakage, overheat, smoking, fire or explosion.

Dos and Don't s in Riding

△ Checks before Riding

Please make the following checks before you ride the scooter.

Do not overlook the importance of these checks. Complete them one by one before riding.

Check Description	Key Points
Steering Handlebar	1) Steadiness 2) Flexible steering 3) No axial displacement or loosening
Braking	1) Braking handlebar has a 5 to 9mm idle travel. 2) The air pressure range of the front tyre is 20 to 25psi; the air pressure range of the rear tyre is 26 to 32psi.
Tyre	1) Normal air pressure 2) Proper tyre tread depth 3) No cracks or openings
Battery Lights	Adequate for planned distance to travel Check all the lights—High beam light, low beam light, brake light, turn indicator, etc. to ensure that they can work.
Horn	Check whether the horn can work.

Dos and Don't s in Riding

△ Braking Precautions

Always balance the scooter before braking.

If the tyres are locked resulting from excessive braking force, loosen the grip on the braking handlebar and the tyre will be working again and the scooter will be stabilized. If the front tyre is locked, the scooter will lose the ability to steer.

Try to maintain a 1:1 ratio of front and back braking force on slippery roads.

Attention:

The inexperienced drivers tend to use the rear brake only, which will accelerate the wear of the brake and result in a long stopping distance.

Warning:

Using the front brake or rear brake only is dangerous because of possible grip or control loss. Pay extra attention and use the brakes gently when riding on damp, slippery roads and around the corners.

Riders slamming on the brakes will be exposed to great danger.

Maintenance and Repair

To extend the service life of the scooter and for a safe, comfortable ride, users are advised to have the scooter checked and maintained on a regular basis. A scooter not used for a long period of time also needs to be checked on a regular basis.

△Regular Maintenance

The first maintenance should be conducted one month after purchase or after a travelling distance of 500km. An overall check and maintenance should be conducted in after-sales service every 6 months or 3000km thereafter. Regular check and maintenance are aimed for the safety of the scooter and the rider.

Attention:

If the scooter is frequently subject to such use conditions as overload, high-speed, bumpy roads, uphill and downhill riding, the maintenance cycle should be shortened.

Original parts made from quality materials and rigorously tested are recommended for guaranteed quality and service life, and for best scooter conditions and riding safety. Parts are under normal warranty.

Maintenance and Repair

△ Daily Maintenance

If abnormalities are found during checks and the scooter needs cleaning, maintenance or parts replacement, users may have checks and maintenance in reference to the Home Repair Instructions or send the scooter to the dealer's for checks and maintenance.

Warning:

If incapable of repair or adjustment on his/her own, the scooter owner is advised to send the scooter to the dealer' s for maintenance and adjustment for the sake of safety.

Always choose a smooth surface road for repair and adjustment and unfold the central stand before repair and adjustment. If it' s necessary to repair the scooter during a ride, please mind the traffic.

Maintenance and Repair

△ Brake Adjustment

If abnormalities are found during checks and the scooter needs cleaning, maintenance or parts replacement, users may have checks and maintenance in reference to the Home Repair Instructions or send the scooter to the dealer' s for checks and maintenance.

△ Scooter Washing

Please use a hose and wash the scooter with running water And neutral detergent. Wipe the scooter with a piece of soft cloth after washing. Do not use a piece of dry cloth to prevent scratching.

Maintenance and Repair

Warning:

Never use a pressure washer to wash the scooter.

Do not wash the two sides, the rear and the inner of the battery compartment with a pressure washer. Do not flush the upper side cover on the rear wheel where the charger, controller and other parts are installed, so as to prevent damage by water. If the scooter falls to the ground by accident, the AC high-voltage charger may be wetted. In that case, do not charge before the charger dries to prevent an electric shock. Repair in the service center is recommended. Do not use it before it's properly checked.

△ Storage Method

Short-term Storage:

- 1) Keep the scooter on flat, steady surfaces in well-ventilated and dry places;
- 2) Charge the battery to 50% full before storage to ensure the service life of the battery;
- 3) Avoid exposure to the sun and rain as practicably as possible to reduce damage or aging of the parts;
- 4) Charge the battery to 100% full for long-term storage;

Maintenance and Repair

5) If the scooters installed with batteries are stored indoor or in safe places like showrooms and storerooms or packed for short-distance transportation in transport vehicles, Connection of power cord and lithium battery should be disconnected to prevent potential electrical fault.

△ Long-term Storage:

- 1) Remember to have a charge and a discharge at least every two months for long-term storage, and charge the battery to 50% full before storage to ensure the service life of the battery;
- 2) Please charge the battery to 100% full before use after long-term storage;
- 3) Check all the parts carefully and make sure that there is no abnormality before taking a ride on the road. In case of any abnormality, send the scooter to the dealer's for maintenance or repair.

Regular Maintenance Checklist			
Regular Safety and Performance Check	Brakes	Structural Check	Wheel Bearing
	Lights		Vibration Damper
	Horn		Central Stand
	Electric Parts		Steering Bearing
	Fuse	Major Parts	Battery
	Tyres		Main Wiring Harness
Structural Check	Lubrication		Control System

Regular Maintenance Checklist		
Fault Description	Fault Cause	Troubleshooting Method
No output after the power is on	Dead battery	1. Charge the battery.
Motor failure when turning the steering handle bar after the power is on	1. Low battery voltage 2. The power off switch is enabled resulting from grasping the braking handlebar 3. The scooter not started	1. Charge the battery. 2. Do not grasp the braking handlebar when starting the scooter. 3. Refer to the "Start the Scooter" section of this Manual.
Battery charge failure	The plug of the battery not properly connected with the battery socket	Check whether the plug is loosened.

Regular Maintenance Checklist		
Fault Description	Fault Cause	Troubleshooting Method
Check whether the plug is loosened.	1. Low battery 2. Under-inflation of tyres 3. Frequent braking and overload 4. Battery aging or normal capacity loss 5. Low battery capacity resulting from low ambient temperature	1. Charge the battery and check whether the plug is properly plugged in and whether the charger is damaged. 3. Check the tyre inflation before each use. 3. Develop good riding habits. 4. Replace the battery. 5. Normal phenomenon.
Sudden stop during a ride	Dead battery	Charge the battery.
	Identify the fault cause in reference to the meter panel fault codes.	

Technical Parameters

Version	Speed (45km/h)	Speed (70km/h)	Speed (100km/h)
Weight	91kg	91kg	95kg
Load Carrying Capacity	150kg	150kg	150kg
Number of seating position:	2 person	2 person	2 person
Front shock absorption	Manual Disc Brake	Manual Disc Brake	Manual Disc Brake
Rear shock absorption	Manual Disc Brake	Manual Disc Brake	Manual Disc Brake
Front braking mode	Sleeve and oil damping	Sleeve and oil damping	Sleeve and oil damping
Rear braking mode	Spring and oil damping	Spring and oil damping	Spring and oil damping
Front wheel rim	14x2.15	14x2.15	14x2.15

Technical Parameters

Version	Speed (45km/h)	Speed (70km/h)	Speed (100km/h)
Rear wheel rim	14x2.50	14x2.50	14x3.0
Front tyre	90/90-14	90/90-14	90/90-14
Rear tyre	110/80-14	110/80-14	110/80-14
Maximum ground clearance	150mm	150mm	150mm
Gradeability	15°	15°	15°
Sitting height	800mm	800mm	800mm
Rated voltage	60V	60V*2	72V*2
Battery capacity	26AH	26AH*2	35AH*2

Technical Parameters

Version	Speed (45km/h)	Speed (70km/h)	Speed (100km/h)
Charging current	5AH	8AH	8AH
Braking distance	4m	7m	10m
Max speed	45km/h	70km/h	100km/h
Motor type	Permanent-magnet Brushless Motor	Permanent-magnet Brushless Motor	gear motor
Motor control mode	FOC	FOC	FOC
Maximum current of controller	65AH	100AH	130AH
Voltage of vehicle light	12V	12V	12V
Instrument Voltage	12V	12V	12V

Maintenance Record

Date	Fault Description	Fault Cause and Troubleshooting Method	Service Station	Serviceman	Remarks

Disclaimer: You must strictly follow the notes in our user manual and battery label. The battery will overheat due to improper use, which may cause fire or explosion. Our company will not shoulder any responsibility for any accidents caused by improper operations that do not follow the instructions on the manual and the battery label.

If the following situations occur, lithium batteries will not be exchanged, returned or warranted:

- 1.Lithium batteries is out of guarantee;
- 2.The anti-counterfeiting and anti-tear label on the lithium battery is damaged or missing (unless the label is removed by the the permission of the manufacturer);
- 3.The product number does not belong to our company, or the product number or model is inconsistent with the number and product model recorded in the warranty certificate;
- 4.Use fake or forged batteries, while our company reserves the right to pursue legal liabilities;
- 5.Lithium battery damage caused by not using the original charger that is provided by our company;
- 6.(Including distributors and consumers of our company) Product failures caused by human factor such as unauthorized maintenance, disassembly and modification of products.
- 7.The battery shell is artificially damaged, burnt out and repaired and the bar code on the shell is modified or blurred and etc;
- 8.Malfunction and performance degradation because of accidental collision accident.
- 9.When the battery is close to fire sources and high-temperature objects when it is used or stored. The battery is immersed in water, disposed in a fire.The battery is oxidized by soaking in water or corrosive liquid.
- 10.Failure beyond the normal battery service environment. Normal using environment: charging temperature 0 ℃ to 45 ℃, discharge temperature - 20 ℃ to 55 ℃, relative humidity: 65 ± 20%;
11. Functional failure or performance degradation happens due to force majeure (fire, earthquake, flood, war, lightning strike, etc.).

Battery case warning:

- 1.Do not place the charger near heat or fire.Do not expose the charger near water.
- 2.Do not cover the battery with anything when charging.
- 3.Please use the authorized charger to charge the battery or warranty will be voided. Please follow the charger instruction.
- 4.When there's two battery boxes,the battery pack must be charged and discharged at the same time.
- 5.Before connecting the battery,raise it a little as 10cm so as to connect easily.

Battery maintenance and adjustment:

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 away the battery from 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 battery dip in the water.
- 5.Prohibited placed the battery in the temperature over 60℃ next to the high-temperature heat source. such as ingle,heating,etc.
- 6.Prohibited knock on,throwing and trample the batteries,etc.
- 7.Prohibited edge tool or nails lacerate and cut through the battery.
- 8.If the leak occurred,electrolyte has come into the eyes,please do not rub.Wash immediately with plenty of water
- 9.If the battery in smell,heat, smoke,changed colors,distortion or and abnormal, stop using the battery and away from it immediately.